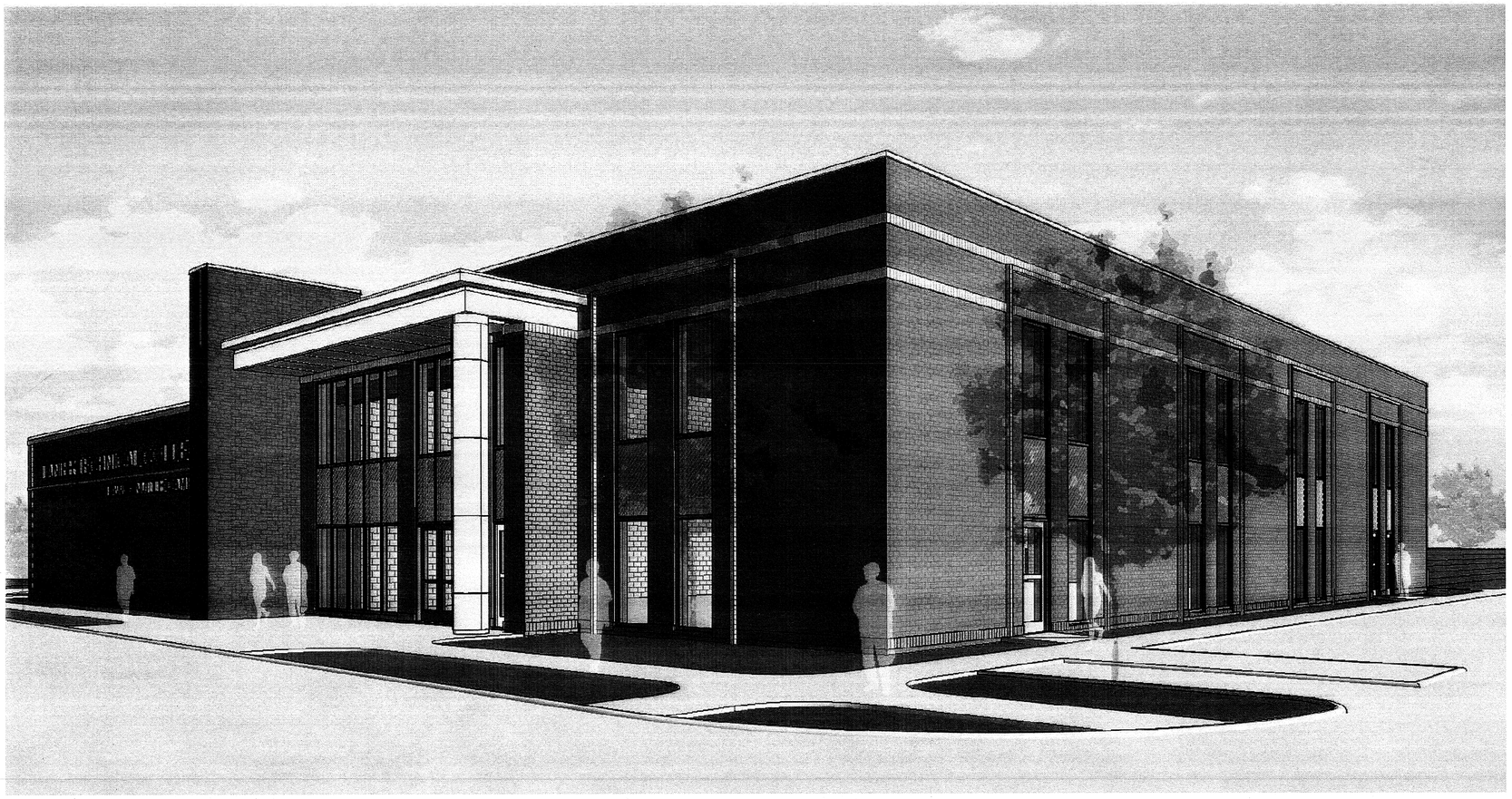
LANIER TECHNICAL COLLEGE

BUILDING EXPANSION - TCSG #236

89 TIGER CIRCLE
DAWSONVILLE, GEORGIA 30534



LANIER TECHNICAL COLLEGE
DAWSONVILLE CAMPUS

Artist Rendering, For Information Only

CONSTRUCTION DOCUMENTS

PROJECT NO. 12528.000
APR. 19, 2011

HKS

ARCHITECT

HKS, INC.
191 PEACHTREE STREET NE, SUITE 5000
ATLANTA, GA 30303
404.442.7878

CIVIL ENGINEER

EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA 30345

STRUCTURAL ENGINEER

WALTER P. MOORE
1201 PEACHTREE ST., SUITE 1600
ATLANTA, GA 30301
404.898.9620

MECH, ELEC, PLUMB, FIRE PROTECTION ENGINEER

NOTTINGHAM, BROOK & PENNINGTON, INC. 316
CORPORATE PKWY.
MACON, GA 31210

OWNER

GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA 30334

USING AGENCY

TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE, SUITE 400
ATLANTA, GA 30345

To the best of my knowledge, information, and belief, the Bidding Documents comply with the applicable building codes.

Restroom Requirements

Revise Table 403.1 to delete the requirements for "service sinks without substitution. One service sink provided on each level. — GA 2007 Amnd IPC T 403.1

I. Plumbing Fixture Count Requirements — IPC T 403.1

Business	- water closets	1 per 25 for first 50 & 1 per 50 after 50
	- lavatories	1 per 40 for first 80 & 1 per 80 after 80
	- drinking fountain	1 per 100
Assembly	- water closets	Women: 1 per 65 / Men: 1 per 125
	- lavatories	1 per 200
	- drinking fountain	1 per 500

Storage Occupancy Fixture Counts — IPC 403.1
The required water closets, lavatories and water fountains for storage Areas shall be 1 per 100 persons for water closets and lavs and 1 per 1000 for water fountains. Since classroom area is in storage area, the Fixture counts for Business shall be used in the Automotive Area.

Separate Facilities for each sex. — IPC 403.2
Where plumbing fixtures area required, separate facilities shall be Provided for each sex.

Number of occupants of each sex. — IPC 403.3
The required water closets, lavatories and showers or bathtubs shall be distributed between the sexes based on the percentage of each sex anticipated in the occupant load. The occupant load shall be composed of 50 percent of each sex.

Business/Storage Occupancy - Based on IBC Gross Floor Area Calculations

Total Occupants

Level One — (Business: General Education Bldg. / Automotive / Lab / Classroom)
21,780-13,690=8,090 / 100 = 81 + 403 = 484 Persons

Level Two — (Business: General Education Bldg. / Library / Lab / Classroom)
9,110 - 4,700 = 4,410 / 100= 45 + 189 = 234 Persons

Total Occupants Business: 718 Persons / 2 = 359 Women & 359 Men

Plumbing Fixture Quantity - Required vs. Provided Tabulation

Business Fixtures - 718 Persons / 2 = 359 Women & 359 Men

Women
- water closets: 1st 50 divided by 25 = 2 fixtures; 359-50=309 divided by 50 = 6.18 = 7 fixtures; Total fixtures Required = 9 Fixtures
- lavatories: 1st 80 divided by 40 = 2 fixtures; 359-80=279 divided by 80 = 3.48 fixtures = 4 fixtures; Total fixtures Required = 6 Fixtures

Men
- water closets: 1st 50 divided by 25 = 2 fixtures; 359-50=309 divided by 50 = 6.18 = 7 fixtures; Total fixtures Required = 9 Fixtures
- lavatories: 1st 80 divided by 40 = 2 fixtures; 359-80=279 divided by 80 = 3.48 fixtures = 4 fixtures; Total fixtures Required = 6 Fixtures

Drinking Fountain: 718 divided by 100 = 7.18 = 8 fixtures; Total fixtures Required = 8 Fixtures

Total Required Plumbing Fixtures - (Business Quantities)

Women
- Water Closets: Total fixtures = 9 Required (9 Total/Future); Total fixtures = 9 Provided
- Lavatories: Total fixtures = 6 Required (6 Total/Future); Total fixtures = 6 Provided

Men
- Water Closets: Total fixtures = 9 Required (9 Total/Future); Total fixtures = 9 Provided (6 w.c. / 3 urinals)
- Lavatories: Total fixtures = 6 Required (6 Total/Future); Total fixtures = 6 Provided

Drinking Fountain: Total fixtures = 8 Required (8 Total/Future); Total fixtures = 8 min. Provided

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME	APR. 19, 2011 BID SET
GENERAL		
A0.00	COVER SHEET	X
A0.01	SHEET INDEX AND PLUMBING CALCULATIONS	X
A0.02	PROJECT INFORMATION	X
CIVIL		
C0.01	CIVIL GENERAL NOTES	X
C1.01	EXISTING CONDITIONS	X
C2.01	LAYOUT PLAN	X
C2.02	GADOT PLAN	X
C2.03	SITE PLOT PLAN	X
C3.01	GRADING PLAN & DRAINAGE PLAN	X
C4.01	UTILITY PLAN	X
C5.01	UTILITY PROFILES	X
C6.01	CONSTRUCTION DETAILS	X
C6.02	CONSTRUCTION DETAILS	X
C6.03	CONSTRUCTION DETAILS	X
C6.04	CONSTRUCTION DETAILS	X
C6.05	CONSTRUCTION DETAILS	X
CD.01	DEMOLITION PLAN	X
CE.01	ES&PC NOTES	X
CE.02	ES&PC NOTES	X
CE.11	INITIAL EROSION CONTROL PLAN	X
CE.12	INTERMEDIATE ES&PC PLAN	X
CE.13	FINAL EROSION CONTROL PLAN	X
CE.21	EROSION CONTROL DETAILS	X
CE.22	EROSION CONTROL DETAILS	X
CE.23	EROSION CONTROL DETAILS	X
TP 1.0	EXISTING CONDITIONS	X
TP 2.0	TREE REMOVAL PLAN	X
TP 3.0	TREE REPLACEMENT PLAN	X
LS 1.0	OVERALL LANDSCAPE PLAN	X
LS 2.0	LANDSCAPE DETAILS	X
LS 3.0	LANDSCAPE DETAILS & PLANT SCHEDULE	X
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ALS.01	LIFE SAFETY PLAN - LEVEL 1	X
ALS.02	LIFE SAFETY PLAN - LEVEL 2	X
AD.01	DEMOLITION FLOOR PLAN	X
AD.02	DEMOLITION FLOOR PLAN - LEVEL 2	X
A2.01	FLOOR PLAN LEVEL 1	X
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A2.03	ROOF PLAN	X
A2.04	BITUMINOUS ROOF DETAILS 01	X
A2.11	ENLARGED TOILET, FINISH, RCP PLANS AND ELEVATIONS	X
A2.21	FLOOR FINISH PLAN - LEVEL 1	X
A2.22	FLOOR FINISH PLAN - LEVEL 2	X
A2.31	FF&E PLAN - LEVEL 1	X
A2.32	FF & E PLAN - LEVEL 2	X
A3.01	PARTITION TYPES	X
A3.03	PARTITION HEAD AND FRAMING DETAILS	X
A3.04	GYP BD DETAILS	X
A3.10	METAL FABRICATIONS 01	X
A3.20	RESTROOM, TOILET LAYOUTS AND STD ACCESSORIES	X
A3.31	DOOR, SAFETY GLAZING,DETAILS AND LOUVER INFORMATION	X
A3.32	DOOR SCHEDULE AND LOUVER INFROMATION	X
A3.40	FINISH LEGEND	X
A3.41	FINISH SCHEDULE	X
A3.50	CABINET INFORMATION	X
A3.51	MILLWORK DETAILS	X
A3.60	INTERIOR ELEVATIONS	X
A3.61	INTERIOR ELEVATIONS	X
A4.00	CEILING DETAILS	X
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A4.02	LEVEL 2 RCP	X
A5.01	EXTERIOR ELEVATIONS	X
A5.21	WINDOWS AND CURTAIN WALL SCHEDULE	X
A6.01	BUILDING AND WALL SECTIONS	X
A6.02	BUILDING SECTIONS	X
A7.01	BRICK / STONE DETAILS - RIGID INSULATION	X
A7.02	WATERPROOFING DETAILS	X
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A7.11	SECTION DETAILS	X
A7.12	SECTION DETAILS	X
A7.13	SECTION DETAILS	X
A7.51	PLAN DETAILS	X
A7.52	PLAN DETAILS	X
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S2.02	FLOOR PLAN LEVEL TWO	X
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S3.02	FOUNDATION TYPICAL DETAILS	X
S3.03	FOUNDATION TYPICAL DETAILS	X
S3.11	FOUNDATION SECTIONS AND DETAILS	X
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S4.02	STEEL FRAMING TYPICAL DETAILS	X
S4.03	STEEL FRAMING TYPICAL DETAILS	X
S4.11	STELL FRAMING SECTION AND DETAILS	X
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S5.02	MASONRY DETAILS	X
S5.03	MASONRY DETAILS	X
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M0.02	SCHEDULE - HVAC	X
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M2.01	FIRST FLOOR PLAN - HVAC	X
M2.02	SECOND FLOOR PLAN - HVAC	X
M2.03	ROOF PLAN - HVAC	X
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M5.02	DETAILS - HVAC	X
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P2.02	SECOND FLOOR PLAN - PLUMBING	X
P3.01	LARGE SCALE - FLOOR PLANS - PLUMBING	X
P4.01	RISERS - PLUMBING	X
P5.01	DETAILS - PLUMBING	X
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E3.02	SECOND FLOOR PLAN - POWER	X
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E4.02	SECOND FLOOR PLAN - SYSTEMS/HVAC POWER	X
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E6.02	RISERS - ELECTRICAL	X
E7.01	DETAILS - ELECTRICAL	X
E8.01	PANELBOARDS - ELECTRICAL	X
E8.02	PANELBOARDS - ELECTRICAL	X
T2.01	FIRST FLOOR PLAN - TELECOMMUNICATIONS	X
T2.02	SECOND FLOOR PLAN - TELECOMMUNICATIONS	X
T3.01	LARGE SCALE PLANS, DETAILS & RISER - TELECOMMUNICATIONS	X

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. 026214
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
SHEET INDEX AND PLUMBING CALCULATIONS
SHEET NO.
A0.01

PLOT DATE:
4/19/2011 1:56:08 PM
TEMPLATE VERSION: 2.5.0.20100909

ROOM NAME ABBREVIATIONS

A

ACSNG	ACCESSIONING (LAB)
ACTV	ACTIVITY
ADMIN RCPT	ADMINISTRATIVE RECEPTION
ADMIT	ADMITTING STATION
ADL BDRM	ADULT BEDROOM
ADL KIT	ADULT KITCHEN
AEROB	AEROBICS AREA
AC	AIR CONDITIONING
ALC	ALCOVE
ANESTH	ANESTHESIA
ANIM STOR	ANIMAL STORAGE
ANTE	ANTE ROOM
AV	AUDIO VISUAL
AUDLGY	AUDIOLOGY
ATM	AUTOMATED TELLER
AUTOP	AUTOPSY

B

BARM KIT	BARIUM KITCHEN
BED RM	BEDROOM
BIO HAZ	BIO-HAZARD
BIO EQUIP	BIOLOGY EQUIPMENT
BIO MED	BIO-MEDICAL
BIO MED ENG	BIO-MEDICAL ENGINEERING
BIO MED LAB	BIO-MEDICAL LABORATORY
BIO MED SAT	BIO-MEDICAL SATELLITE
BIO WST	BIO-MEDICAL WASTE
BLD BNK	BLOOD BANK
BLD DNR	BLOOD DONER AREA
BLD DWG	BLOOD DRAWING
BLD GAS	BLOOD GAS LABORATORY
BRD RM	BOARD ROOM
BLR RM	BOILER ROOM
BNE DNSTY	BONE DENSITY
BKPG	BOOK KEEPING
BTQUE	BOUTIQUE
BRKDN	BREAK DOWN
BRK RM	BREAK ROOM
BRKDN/EQ	BREAKDOWN EQUIPMENT
BRST FD	BREAST FEEDING
BRST ULT	BREAST ULTRASOUND
BULK ST	BULK STORAGE

C

CG WSH	CAGE WASH
CNTEN	CANTEEN
CARD GYM	CARDIAC CATH GYM
CARD CATH	CARDIAC CATHETERIZATION
CARD CIRCUIT	CARDIAC CIRCUIT
CARD REHAB	CARDIAC REHABILITATION
CARD RM	CARDIAC ROOM
C/V COND	CARDIOVASCULAR CONDITIONING
C/V EXAM	CARDIOVASCULAR EXAM
C/V STRESS TEST	CARDIOVASCULAR STRESS TESTING
CAST	CAST ROOM/ORTHO/FRACTURE
CATH PROC	CATHETERIZATION PROCEDURE
CHNG (M-MALE, F-FEMALE, H/C-HANDICAPPED)	CHANGING ROOM
CHRT RD	CHART READING
CHRT/HLD	CHART HOLDING
CHRT/DCT	CHARTING/DICTATION
CHEM COLD ST	CHEMICAL COLD STORAGE
CHEM ST	CHEMICAL STORAGE
CHEM	CHEMISTRY
CHEMO	CHEMOTHERAPY
CHILD BIRTH ED	CHILD BIRTH EDUCATION
CHILD WTG	CHILD BIRTH WAITING
CLSRM	CLASSROOM
CLSRM/CONF	CLASSROOM CONFERENCE
CLSRM/CNSLT	CLASSROOM CONSULT
CLN EQPCP	CLEAN EQUIPMENT
CLN HOLD	CLEAN HOLDING
CLN LINEN	CLEAN LINEN
CLN MED	CLEAN MEDICATION
CLN ST	CLEAN STORAGE
CLN SPLY	CLEAN SUPPLY
CLN SPLY/ST	CLEAN SUPPLY STORAGE
CLN UTIL	CLEAN UTILITY
CLERCL/FLS	CLERICAL/FILES
CLIN CONS	CLINICAL CONSULT
CLIN WK	CLINICAL WORKSTATION
CL	CLOSET
CLD RM	COLD ROOM
COMM	COMMUNICATION
COMM EQ	COMMUNICATION EQUIPMENT
COMMUNITY	COMMUNITY ASSEMBLY
CT	COMPUTED TOMOGRAPHY
CT CNTRL	COMPUTED TOMOGRAPHY CONTROL
CT IMAG	COMPUTED TOMOGRAPHY IMAGING
CT PREP	COMPUTED TOMOGRAPHY PREPARATION
CT READ	COMPUTED TOMOGRAPHY READING
CT SCAN	COMPUTED TOMOGRAPHY SCAN
CT SIM	COMPUTED TOMOGRAPHY SIMULATOR
COMP	COMPUTER
COMP SERVER	COMPUTER SERVER
COMP ST	COMPUTER STATION
CNCSN	CONCESSION AREA
CNCRG	CONCIERGE
CONF/CNSLT	CONFERENCE/CONSULT
CONF	CONFERENCE
CONF/EDU	CONFERENCE/EDUCATION
CONF/GRP/THERAPY	CONFERENCE/GROUP/THERAPY
CONF/LIB	CONFERENCE/LIBRARY
CONF/LNG	CONFERENCE/LOUNGE
CONF/OFF	CONFERENCE/OFFICE
CONF/TEACH	CONFERENCE/TEACHING
COUNSEL	COUNSELING
CNSLT	COUSULT
CNSLT/CONF	CONSULT/CONFERENCE
COPY	COPY AREA
CORR	CORRIDOR
CTYRD	COURTYARD
CCU	CRITICAL CARE UNIT
C-SECT	C-SECTION DELIVERY
CYSTOL LAB	CYSTOLOGY LABORATORY
CYSTOL	CYSTOSCOPY

D

DKRM	DARKROOM
DAYRM	DAY ROOM
DECON	DECONTAMINATION
DECON SHWR	DECONTAMINATION SHOWER
DENTAL LAB	DENTAL LABORATORY
DIAL	DIALYSIS
DICT	DICTATION
DICT WK	DICTATION WORKROOM
DIET	DIETICIAN
DGTL IMAG	DIGITAL IMAGING
DIN	DINING
DIN/ACT	DINING/ACTIVITY
DISH	DISHROOM
DSPTCH	DISPATCH
DISTRIB	DISTRIBUTION
DSMTRY	DOSIMETRY

E

ECHO	ECHOCARDIOGRAM
ECHO READ	ECHOCARDIOGRAM READING
EDUC	EDUCATION ROOM
ELEC	ELECTRICAL
ELEC CL	ELECTRICAL CLOSET
EKG READ	ELECTROCARDIAGRAM READING
EKG	ELECTROCARDIAGRAM TESTING
EEG	ELECTROENCEPHALOGRAM TESTING
EP LAB	ELECTROPHYSIOLOGY LABORATORY
EREG LAB	ELECTRORETINOGRAPHY
EMER ELEC	EMERGENCY ELETRICITY
EMER GEN	EMERGENCY GENERATOR ROOM
EMP HEALTH	EMPLOYEE HEALTH
ENDO	ENDOSCOPY PROCEDURE
ENV SERV	EVNIRONMENTAL SERVICES
EQPM	EQUIPMENT
EQPM ALC	EQUIPMENT ALCOVE
EXAM	EXAM ROOM
EXAM/CNSLT	EXAM/CONSULT
EXAM/TREAT	EXAM/TREATMENT
EXERC	EXERCISE
EXIST	EXISTING

F

FAM RM	FAMILY ROOM
FEED	FEEDING ROOM
FILE	FILE STORAGE
FILES/ADMIN	FILES ADMINISTRATION
FILM PROC	FILM PROCESSING ROOM
FILM READ	FILM READING
FIN	FINANCE
FIN COUN FITNESS CTR AUTOCL	FINANCIAL COUNSEL FITNESS CENTER AUTOCLAVE/FLASH STERILIZER
FLUORO	FLUOROSCOPY
FOOD ST	FOOD STORAGE
FORM PREP	FORMULA PREPARATION
FREE WGT	FREE WEIGHT AREA
FR SECT	FROZEN SECTION
FNCTN RM	FUNCTION ROOM
FUT EXP	FUTURE EXPANSION

G

GAR	GARAGE
GEN STORES	GENERAL STORES
GEN	GENERATOR
GIFT	GIFT SHOP
GLAUC CTR	GLAUCOMA CENTER
GWN WTG	GOWN WAITING
GWN WTG F	GOWN WAITING FEMALE
GWN WTG M	GOWN WAITING MALE
GRIEVING	GRIEVING ROOM
GROSS	GROSSING

H

PRIV H/C	HANDICAP PRIVACY BEDROOM
SHWR H/C	HANDICAP SHOWERS
TLT H/C STAFF	HANDICAP STAFF TOILET
TLT H/C	HANDICAP TOILET
TLT SH H/C	HANDICAP TOILET/SHOWER
TUB H/C	HANDICAP TUB
HEM	HEMATOLOGY
HISTO	HISTOLOGY
HOLD	HOLDING
HOOD	HOOD AREA
HOT LAB	HOT LABORATORY
HSKPG	HOUSEKEEPING
HVF	HUMPHREYS VISUAL FIELD
HYDRO	HYDROTHERAPY TANKS

I

ICE	ICE MACHINE
INF RESUS	INFANT RESUSCITATION
INFEC CTRL	INFECTION CONTROL
INFO	INFORMATION DESK
INFO SYSTEM	INFORMATION SYSTEM
INFUS	INFUSION AREA
INT	INTERVIEW
INV	INVENTORY
ISOL	ISOLATION ROOM
IV PREP	IV PREPARATION
IV ST	IV STORAGE

K

KIT	KITCHEN
KIT/SAT	KITCHEN SATELLITE

L

LDR	LABOR/DELIVERY/RECOVERY
LDRP	LABOR/DELIVERY/RECOVERY/POST PARDUM
LAB	LABORATORY
LAB/SAT	LABORATORY/SATELLITE
LDRY	LAUNDRY
LIB	LIBRARY
LIB/CONF	LIBRARY/CONFERENCE
LIB/MEDIT	LIBRARY/MEDITATION
LIGHT ADAPT	LIGHT ADAPTATION
LINR ACC	LINEAR ACCELERATOR
LIN CH	LINEN CHUTE
LIN STR	LINEN STORAGE
LR	LIVING ROOM
DOCK	LOADING DOCK
LKRS	LOCKERS
LKRS F	LOCKERS FEMALE
LKRS M	LOCKERS MALE
LKRS/CHNG	LOCKERS/CHANGING
LONG EX	LONG EXAM ROOM

M

MACH RM	MACHINE ROOM
MRI	MAGNETIC RESONANCE IMAGING
MAIL	MAIL ROOM
MAINT	MAINTENANCE
MAMMO/STERO	MAMMOGRAPHY/STEROTACTIC
MGMT	MANAGEMENT
MANIFOLD	MANIFOLD ROOM
MRKTG	MARKETING
MATL MGMT	MATERIALS MANAGEMENT
MECH	MECHANICAL
MECH/ELEC	MECHANICAL/ELECTRICAL
MED REC	MEDICAL RECORDS
MEDS	MEDICATION ROOM
MEDIT	MEDITATION
MTG	MEETING ROOM
MEZZ	MEZZANINE
MICRO BIO LAB	MICROBIOLOGY LABORATORY
MOB DK	MOBILE DOCK

N

NARC CLO	NARCOTICS CLOSET
NICU	NEONATAL INTENSIVE CARE UNIT
NEW NUR	NEWBORN NURSERY
NIGHT PHARM	NIGHT PHARMACY
NITROGEN ST	NITROGEN STORAGE
NOISY ACTV	NOISY ACTIVITY
NOUR	NOURISHMENT
NUC MED	NUCLEAR MEDICINE
NRS STA	NURSE STATION

O

OBSERV	OBSERVATION
OBSERV/EXAM	OBSERVATION EXAM
OBSERV/TREAT	OBSERVATION TREATMENT
OB/GYN	OBSTETRIC/GYNECOLOGY
OT	OCCUPATIONAL THERAPY
OFF	OFFICE
OFF SHRD	OFFICE SHARED
OFF/CONF	OFFICE/CONFERENCE
OFF/CONS	OFFICE CONSULT
OFF/EXAM	OFFICE/EXAM
ON-CALL LNG	ON-CALL LOUNGE
OR	OPERATING ROOM
OR CARDIAC	OR CARDIOTHORACIC
OR EQ ST	OR EQUIPMENT STORAGE
OR ORTHO	OR ORTHOPEDIC
ORTHO	ORTHOPEDIC ROOM
ORTHO ST	ORTHOPEDIC STORAGE
OSTOMY ST	OSTOMY STORAGE
OXYGEN ST	OXYGEN STORAGE

P

PNTR	PANTRY
PARENT LKRS	PARENT LOCKERS
PASS	PASSAGE
PATH LAB	PATHOLOGY LABORATORY
PAT BAY	PATIENT BAY
PAT EDUC	PATIENT EDUCATION
PAT HOLD	PATIENT HOLDING
PAT INTAKE	PATIENT INTAKE
PAT LKRS	PATIENT LOCKERS
PAT LNG	PATIENT LOUNGE
PAT PREP	PATIENT PREPARATION
PAT REG	PATIENT REGISTRATION
PED	PEDIATRIC
PED BAY	PEDIATRIC BAY
PED BLOOD DWG	PEDIATRIC BLOOD DRAWING
PED OBSERV	PEDIATRIC OBSERVATION
PED PLAY	PEDIATRIC PLAY
PHARM	PHARMACY
PHARM ST	PHARMACY STORAGE
PHLEB	PHLEBOTOMY
PT	PHYSICAL THERAPY
PT GYM	PHYSICAL THERAPY GYM
PT TRT	PHYSICAL THERAPY TREATMENT/ MODALITY ROOM
PT/OT	PHYSICAL THERAPY/OCCUPATIONAL THERAPY
PT/OT GYM	PHYSICAL THERAPY/OCCUPATIONAL THERAPY GYM
PET	POSITION EMISSION TOMOGRAPHY
PACU	POST ANESTHESIA CARE UNIT
PREP	PREPARATION AREA
PREP/RECOV	PREPARATION/RECOVERY
PRIV	PRIVATE
PRIV BAY	PRIVATE BAY
PRIV BDRM	PRIVATE BEDROOM
PRIV RM	PRIVATE ROOM
PROC	PROCEDURE ROOM
PROC/ASSESS	PROCEDURE/ASSESSMENT
PSYCH	PSYCHIATRY
PSYCHOL	PSYCHOLOGY
PUMP AM	PUMPING ROOM

Q

QUIET ACTV	QUIET ACTIVITY
QUIET RM	QUIET ROOM

R

RAD	RADIOLOGY
READ	READING ROOM
RCPT/CSHR	RECEPTION/CASHIER
REC ARC	RECORD ARCHIVE
REC ST	RECORD STORAGE
RECOV	RECOVERY
RECOV BAY	RECOVERY BAY
RECOV/OBS	RECOVERY OBSERVATION
RECYC	RECYCLING
REFR	REFRIGERATOR
REGIST	REGISTRATION
REGIST/FIN	REGISTRATION/FINANCIAL
REHAB GYM	REHABILITATION GYM
RESRCH	RESEARCH
RES RM	RESIDENT ROOM
RESRCE	RESOURCE
RESRCE LIB	RESOURCE LIBRARY
RESP	RESPIRATORY
RT	RESPIRATORY THERAPY
REST	RESTAURANT
RETHERM	RETHERM PANTRY
RETINA CTR	RETINA CENTER

S

SCHED	SCHEDULING
SCOP CLN	SCOPE CLEANING
SCOP ST	SCOPE STORAGE
SCRUB ALC	SCRUB ALCOVE
SCRUB	SCRUB AREA
SECL	SECLUSION ROOM
SECUR	SECURITY
SEMI PRIV RM	SEMI PRIVATE ROOM
SERO	SEROLOGY
SERV	SERVERY
SVC	SERVICE
SERV ENTRY	SERVICE ENTRY
SHELL	SHELL SPACE
SHWR (M-MALE, F-FEMALE, H/C - HANDICAP)	SHOWER
SIM	SIMULATOR
SINK ALC	SIND ALCOVE
SITZ	SITZ BATH
SLP LAB	SLEEP LABORATORY
SLP STUDY	SLEEP STUDY ROOM
SOIL HOLD	SOILED HOLDING
SOIL LN	SOILED LINEN
SOIL UTL	SOILED UTILITY
SOL	SOLARIUM
SORT	SORTING AREA
SP CARE NUR	SPECIAL CARE NURSING
SPEC PROC	SPECIAL PROCEDURES
SP SERV	SPECIAL SERVICES
SP STUD	SPECIAL STUDIES
SP TEST	SPECIAL TESTING
SPEC	SPECIMEN
STAGE I	STAGE I - PACU
STAGE I ISOL	STAGE I ISOLATION - PACU
STAGE II	STAGE II - RECOVERY
STAGE II ISOL	STAGE II ISOLATION - RECOVERY
STR	STAIR
STAT LAB	STAT LABORATORY
STEAM	STEAM ROOM
STER PROC	STERILE PROCEDURE
STER ST	STERILE STORAGE
STER SPLY	STERILE SUPPLY
STER	STERILIZER
ST	STORAGE
STRESS LAB	STRESS LABORATORY
STRESS TEST	STRESS TESTING
STCH ALC	STRETCHER ALCOVE
STCH ST	STRETCHER STORAGE
SUB STA	SUB-STATION
SUB STER	SUB-STERILE
SUB WTG	SUB-WAITING
SPLY	SUPPLY
SUPP	SUPPORT
SURG	SURGERY
SYN LAB	SYNCOPE LABORATORY

T

TECH	TECHNICIANS
TEL	TELEPHONE
TEL ALC	TELEPHONE ALCOVE
TEL CL	TELEPHONE CLOSET
TEL VND	TELEPHONE VENDING
TEL/DATA	TELEPHONE/DATA
TV	TELEVISION LOUNGE
TEMP ST	TEMPORARY STORAGE
TEST	TESTING
TLT (M-MALE, F-FEMALE, P-PUBLIC H/C-HANDICAP, S-STAFF, U-UNISEX)	TOILET
TLT/SH (H/C-HANDICAP, TB-TUB)	TOILET SHOWER
TRANS	TRANSCRIPTION
TRANS WK	TRANSCRIPTION WORKSTATION
TRANSFUS	TRANSFUSION
TRANSFUS BAY	TRANSFUSION BAY
TRSH	TRASH
TRAUMA	TRAUMA ROOM
TRMT	TREATMENT
TRMT BAY	TREATMENT BAY
TREAT/PROC	TREATMENT/PROCEDURE ROOM
TUB	TUB ROOM

U

ULTRA	ULTRASOUND
UBM	ULTRASOUND BIOMICROSCOPY
UNIT SECY	UNIT SECRETARY
UTIL	UTILITY

V

VND	VENDING
VEST	VESTIBULE
VIEW	VIEWING
VISUAL	VISUAL FIELD

W

WAIT	WAITING
WARM	WARMING PANTRY
WASH	WASHING AREA
W/C ALC	WHEELCHAIR ALCOVE
W/C ST	WHEELCHAIR STORAGE
WK AREA	WORK AREA
WK STA	WORK STATIONS
WK RM	WORKROOM

DRAWING ABBREVIATIONS

A

AB	ANCHOR BOLT
AD	AREA DRAIN
AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AL ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL

B

B.M.	BENCH MARK
BD	BOARD
BETW	BETWEEN
BF	BACKFACE
BG	BUMPER GUARD
BL	BED LOCATOR
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BR	BUMPER RAIL
BRG	BEARING
BSMT	BASEMENT
BU ROD	BACK-UP ROD
BUR	BUILT-UP ROOF
BW	BEARING WALL

C

C	COMPACT PARKING SPACE
CDR	CARD READER
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPE	CHLORINATED POLYETHYLENE
COOR	CORRIDOR
CR	COLD ROLLED
CR	CRASH RAIL
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTD	CENTERED
CTR	CENTER
CW	CURTAIN WALL

D

D	DEPTH
DBA	DEFORMED BAR ANCHOR
DET	DETAIL
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DJ	DEFLECTION JOINT
DL	DEAD LOAD
DN	DOWN
DRG	DRAWING
DS	DOWN SPOUT
DWGS	DRAWINGS
DWLS	DOWELS

E

EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIB	FIBERGLASS
FIN	FINISH
FLR	FLOOR
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET

G

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GFRC	GLASS-FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GM	GLAZED MASONRY UNIT
GND	GROUND
GR	GRADE
GRG	GLASS-REINFORCED GYPSUM
GYP BD	GYPSUM BOARD

H

HB	HOSE BIB
HDW	HARDWARE
HDWD	HARDWOOD
HK	HOOK
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HEADED STUD
HSKP	HOUSEKEEPING
HT	HEIGHT
HW	HAND WASH

I

IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR

J

K

K	KIPS (1000 LB)
KO	KNOCK-OUT
KP	KICKPLATE
KPD	KEYPAD
KSF	KIPS PER SQUARE FOOT

L

L	ANGLE
LAV	LAVATORY
LG	LONG
LKB	LOCKABLE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE

M

MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFG	MANUFACTURER
MGO	MEDICAL GAS OUTLET
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOB	MEDICAL OFFICE BUILDING
MOD BIT	MODIFIED BITUMEN
MOD	MODIFIED
MSL	MEAN SEA LEVEL
MTL	METAL

N

NA	NOT AVAILABLE
NIC	NOT IN CONTRACT
NOA	NOTICE OF ACCEPTANCE
BY	FLORIDA GOVERNING AUTHORITY
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT
CONCRETE	

O

OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSF	OUTSIDE FACE

P

P LAM	PLASTIC LAMINATE
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PENT	PENTHOUSE
PL	PROPERTY LINE
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PP	PUSH PLATE
POL	POLISHED
PORT CEM	PORTLAND CEMENT
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE
FOOT	
PSI	POUNDS PER SQUARE INCH
PT	POINT
PT	PNEUMATIC TUBE
PTD	PAINTED

R

R	RISER
RAD	RADIUS
RAF	RUBBERIZED ASPHALT FLASHING
RAM	RUBBERIZED ASPHALT MEMBRANE
RAU	RUBBERIZED ASPHALT UNDERLAYMENT
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECP	RECEPTACLE
REF	REFER OR REFERENCE
REINF	REINFORCING
RELOC	RELOCATE/RELOCATED
REQ'D	REQUIRED
RFVC	RECESSED FIRE VALVE CABINET
RM	ROOM
RO	ROUGH OPENING

S

SAB	SOUND ATTENUATION BLANKET
SBC	STANDARD BUILDING CODE
SCHED	SCHEDULE
SDL	SUPERIMPOSED DEAD
LOAD	
SECT	SECTION
S/H	SINGLE HUNG
SHWR	SHOWER
SIM	SIMILAR
SO	STRUCTURAL OPENING
SOG	SLAB ON GRADE
SP	STAND PIPE
SPA	SPACE, SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSF	SOLID SURFACE
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
SYS	SYSTEM

T

T	TREAD
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK
TLT	TOILET
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TRSH CH	TRASH CHUTE
TW	TOP OF WALL
TYP	TYPICAL

U

U/C	UNDER COUNTER
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

V

VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING

W

W/	WITH
W/C	WHEEL CHAIR
W/O	WITHOUT
W	WIDTH
WP	WATERPROOF(ING)
WD	WOOD
WF	WIDE FLANGE
WL	WIND LOAD
WP	WORK POINT
WPO	WORK POINT - POINT OF ORIGIN
WP1	WORK POINT - NUMBERED
WWF	WELDED WIRE FABRIC

INDEX OF DRAWINGS

NUMBERING SYSTEM:

DISCIPLINE:
C - CIVIL
L - LANDSCAPE
A - ARCHITECTURE
M - MECHANICAL
E - ELECTRICAL
P - PLUMBING
S - STRUCTURAL
K - FOOD SERVICE

SERIES NUMBER

SHEET NUMBER WITHIN SERIES

NUMBER OF PLAN, DETAIL, ETC. ON SHEET

A2.10/01

LEGEND

MATERIALS

- CONCRETE/ PRECAST CONCRETE
- SOIL
- SAND, EIFS FINISH COAT, OR CEMENT PLASTER
- BRICK
- CMU
- STONE
- FIBERGLASS BATT INSULATION
- FIBERGLASS SEMI RIGID INSULATION
- MINERAL WOOL SEMI RIGID INSULATION
- EXPANDED POLYSTYRENE RIGID INSULATION
- EXTRUDED POLYSTYRENE RIGID INSULATION
- POLYISOCYANURATE RIGID INSULATION
- GYPSUM BOARD
- EXTERIOR GYPSUM SHEATHING
- EXTERIOR CEMENT BOARD
- COATED GLASS MAT WATER RESISTANT GYP BD
- PLYWOOD
- COVER BOARD

DRAWING SYMBOLS

- ROOM NAME XXXXX — ROOM NAME/NUMBER
- EXISTING COLUMN CENTERLINE
- COLUMN CENTERLINE
- ACCESSORY
- DEMOLITION NUMBERED NOTES
- 01 A0.XX — BUILDING WALL SECTION
- 01 A0.XX — ELEVATION
- A0.XX — SECTION DETAIL
- 01 A0.XX — PLAN, BLOW-UP DETAIL
- INTERIOR ELEVATION INDICATOR
- DIRECTION INDICATOR
- EDGE OF SLAB
- FACE OF BUILDING
- +9'-0" — CEILING HEIGHT
- MEDICAL GAS
- 001 — MEDICAL EQUIPMENT
- CORNER GUARDS
- CRASH RAIL
- BUMPER RAIL
- HAND RAIL
- BED LOCATOR
- WALL PROTECTION
- IV TRACK
- CUBICLE CURTAIN TRACK
- PARTITION TYPE WITH NO SOUND ATTENUATION
- A3 — PARTITION TYPE WITH SOUND ATTENUATION
- BUILDING EXPANSION JOINT
- CMU WALL
- NEW WALL
- EXISTING WALL
- DEMO WALL
- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- 4 HOUR FIRE WALL
- NON-RATED SMOKE WALL
- 1 HOUR SMOKE WALL
- 2 HOUR SMOKE WALL
- 1 HOUR SHAFT WALL
- 2 HOUR SHAFT WALL

CEILING SYMBOLS

- GYP BD CEILING
- SUPPLY AIR
- RETURN AIR
- ACCESS PANEL
- FLUORESCENT LIGHT
- WALL MOUNTED FLUORESCENT FIXTURE
- EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION
- SMOKE DETECTOR
- WALL WASHER
- PENDANT TYPE LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- DOWNLIGHT
- STRIP LIGHT
- SPEAKER

BUILDING SUMMARY

PROJECT INFORMATION

PROJECT NAME: TCSG-236 LANIER TECHNICAL EDUCATION BUILDING

ADDRESS: 89 TIGER CIRCLE, DAWSONVILLE GA. 30534

PROPOSED USE: HIGHER EDUCATION TECHNICAL COLLAGE

OWNER-CONTACT PERSON: JOEL HEATON JR.

PHONE: 404-463-5758

APPLICABLE CODES

2006 INTERNATIONAL BUILDING CODE, WITH 2007-10 GEORGIA AMENDMENTS PER DCA
2006 INTERNATIONAL FIRE CODE, WITH 2007-10 GEORGIA AMENDMENTS PER DCA AND STATE FIRE MARSHAL
2000 LIFE SAFETY CODE, WITH 2007-10 GEORGIA AMENDMENTS PER STATE FIRE MARSHAL
2006 INTERNATIONAL PLUMBING CODE, WITH 2007-10 GEORGIA AMENDMENTS PER DCA
2006 INTERNATIONAL MECHANICAL CODE, WITH 2007-10 GEORGIA AMENDMENTS PER DCA
2006 INTERNATIONAL FUEL GAS CODE, WITH 2007-10 GEORGIA AMENDMENTS PER DCA
2008 NATIONAL ELECTRICAL CODE, WITH 2009-10 GEORGIA AMENDMENTS PER DCA
2006 INTERNATIONAL ENERGY CODE, WITH 2008-10 GEORGIA AMENDMENTS PER DCA
GEORGIA ACCESSIBLY CODE, 120-3-20, 1997 PER STATE FIRE MARSHAL
AMERICANS WITH DISABILITIES ACT, JANUARY 26, 1992 PER 120-3-20
2007 ANSI ELEVATOR CODE WITH GEORGIA AMENDMENTS PER GEORGIA DEPT. OF LABOR
DCA=GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS
FM INSURED: REQUIRED

BUILDING PLANNING

OCCUPANCY: B/A-3/S-1 (A-3 OCCUPANCY IS ACCESSORY TO B)

MIXED OCCUPANCY? (YES)/ NO

REQUIRED FIRE SEPARATION: 1 HR

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE: IIB

ESSENTIAL FACILITY (CHAPTER 16, IBC)

ESSENTIAL FACILITY? YES /(NO)

GENERAL BUILDING LIMITATIONS

- AGGREGATE AREA OF:
  - MAXIMUM STORIES ALLOWED: 3
  - NUMBER OF STORIES: 2
  - MAXIMUM SINGLE FLOOR AREA ALLOWED: 65,100
  - MAXIMUM SINGLE FLOOR AREA: +/- 21,778
  - MAXIMUM AREA: +/- 39,100
  - MAXIMUM HEIGHT OF BUILDING: 40'
  - HIGH RISE: YES /(NO)
  - PARKING SPACES PROVIDED: EXISTING
  - PARKING SPACES REQUIRED: EXISTING
  - ACCESSIBLE PARKING SPACES PROVIDED: 3

FIRE PROTECTION SYSTEMS

- FIRE EXTINGUISHING SYSTEM: (YES)/ NO — TYPE: NFPA 13
- STANDPIPE SYSTEM: (YES)/ NO — CLASS:
- SMOKE CONTROL: YES /(NO)

FIRE RESISTANT CONSTRUCTION/FIREPROOFING SCHEDULE

ITEM	REQ'D RATING / HR	UL/FM # WHERE APPLICABLE
- EXTERIOR WALLS: LOAD BEARING	0 HR	X
NON-LOAD BEARING	0 HR	X
- FIRE/PARTY WALLS	0 HR/ AS NOTED	X
- SHAFTS	1 HR	X
- TENANT SEPARATION	0 HR	X
- INTERIOR WALL: LOAD BEARING	SEE PLANS	X
NON-LOAD BEARING	SEE PLANS	X
- COLUMNS	1 HR SEE NOTE 3 BELOW	X
- BEAMS	SEE NOTE 4 BELOW	X
- FLOOR/CEILING	SEE NOTE 4 BELOW	X
- ROOF/CEILING	0 HR	X

FIRE PROOFING NOTES

1. ALL FIRE RESISTIVE RATINGS ARE ASSUMED TO BE THERMALLY UNRESTRAINED.

2. ALL BEAMS AND COLUMNS SHALL BE ADJUSTED USING W/D OR A/P RATIOS TO DETERMINE THE CORRECT FIREPROOFING THICKNESS.

3. RATED WHERE WALLS NOTED PLANS. MIN (1) HOUR FOR COLUMNS SUPPORTING LEVEL 2. OTHER AREAS, (0) HOUR, U.N.O. RATING ACHIEVED BY ENCLOSING COLUMNS IN RATED WALLS WITH FIRE SAFING AT PENETRATIONS.

BUILDING ENVELOPE ENERGY INFORMATION

Insulation Ratings	
Walls	R-13
Roofs	R-19
Slab	15 MIL VAPOR RETARDER PER SPECIFICATIONS

ROOM NUMBERING SYSTEM:

BUILDING LEVEL

DEPARTMENT NUMBER

ROOM NUMBER IN DEPARTMENT

1.0101

DEPARTMENTS:

0. GENERAL BUILDING
1. ADMINISTRATION
2. GENERAL EDUCATION
3. COSMETOLOGY
4. AUTOMOTIVE
5. WELDING
6. CONSTRUCTION
7. MEDICAL
8. ADULT EDUCATION (N.I.C.)
9. BUILDING SERVICE

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA010744
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
PROJECT INFORMATION

SHEET NO.
A0.02

PLOT DATE: 4/18/2011 2:26:56 PM TEMPLATE VERSION: 2.5.0.20100809

LANIER TECHINCAL COLLEGE

BUILDING EXPANSION

DAWSON COUNTY, GA

SITE DATA

ZONING USE: H–B

TOTAL ACREAGE: 2.05

DISTURBED ACREAGE: 2.21

DAWSON COUNTY, GA
LAND LOT 442; 4th DISTRICT

BUILDING DATA

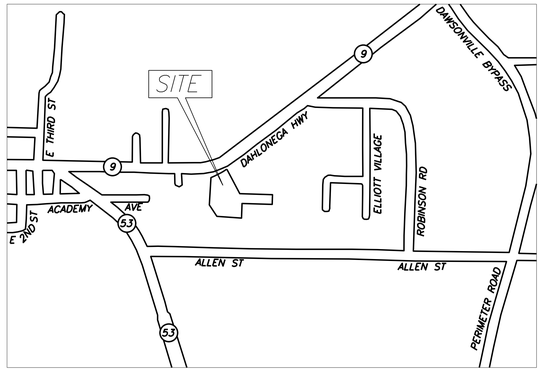
EXIST. BUILDING SQUARE FOOTAGE:
16,069 sq. ft.

NEW BUILDING SQUARE FOOTAGE:
32,025 sq. ft.

PARKING DATA

EXISTING PARKING LOT SHARED WITH DAWSON COUNTY SCHOOL SYSTEM IN LEASE AGREEMENT

15 NEW SPACES PROVIDED
2 ARE HANDICAP ACCESSIBLE



LOCATION MAP

N.T.S.

NO PORTION OF THIS PROPERTY LIES IN THE FLOOD HAZARD ZONE AE AS PER THE FEMA COMMUNITY PANEL NO. 13085C0111B DATED SEPT. 26, 2008.

LAND DISTURBANCE PERMIT APPROVED BY CITY OF DAWSONVILLE, CONTRACTOR RESPONSIBLE FOR PERMIT FEE OF $419.90 ($190 PER DISTURBED ACRE)

SHEET INDEX

LEGEND

PROPOSED CURB & GUTTER

TRAFFIC FLOW

PARKING BAY COUNT (10)

CONC. PAVING

PAVING, C&G BY COUNTY

HEAVY DUTY PAVING

CONC. SIDEWALK

DRAINAGE FLOW

PROPOSED CONTOUR 898

PROPOSED SPOT ELEVATION X 98.0

PROPOSED STORM SEWER ST

PROPOSED STORM INLET DI. A–1, SWCB A–2, DWCB A–3, JB. A–4, GA. DOT TYPE W/HOOD

PROPOSED HEADWALL ST HW. Z–1

CLEARING LIMITS

SANITARY SEWER/MANHOLE MH. A–2, 8"S.S.L., MH. A–1

WATER MAIN/VALVE 8"W

FIRE HYDRANT FH.

WATER METER/ BACK FLOW PREVENTOR 2"WM & BFP

WATER METER/ DOUBLE DETECTOR CHECK 10"WM & DDC IN VAULT

GENERAL NOTES

1. THE DISTURBED ACREAGE OF THE SITE IS 2.21 ACRES.
2. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND WAYS, MEANS AND METHODS OF CONSTRUCTION.
3. COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND OBTAIN ALL NECESSARY LICENSES AND PERMITS.
4. PROJECT BENCHMARK: PK NAIL SOUTHWEST CORNER OF SITE, ELEV=1409.90 ELEV DATUM: NAVD 88.
5. VERIFY BUILDING DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIELD STAKING.
6. PROVIDE AND MAINTAIN OFF–STREET PARKING THROUGHOUT CONSTRUCTION IN AREAS DESIGNATED BY THE OWNER.
7. FIELD VERIFY LOCATION AND INVERTS OF EXISTING SANITARY SEWER FOR CONNECTION TO EXISTING SEWER SYSTEM.
8. PROVIDE SIGNING AND STRIPING ACCORDING TO LOCAL JURISDICTION SPECIFICATIONS.
9. PERFORM ALL WORK IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
10. THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN. VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. REPAIR ALL DAMAGES MADE TO EXISTING UTILITIES AT NO COST TO THE OWNER.
11. CALL UTILITIES PROTECTION CENTER 1–800–282–7411.
12. THE BOUNDARY INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY LANDAIR SURVEYING, DATED: 6–1–09.
13. THE TOPOGRAPHIC INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY LANDAIR SURVEYING, DATED: 6–1–09.
14. PERFORM ALL WORK IN CITY, COUNTY, STATE, AND FEDERAL RIGHTS–OF–WAY IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
15. PROVIDE NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY WITHIN THE RIGHT–OF–WAY FOR THE PROTECTION AND THE SAFETY OF THE PUBLIC AND MAINTAIN THROUGHOUT CONSTRUCTION.
16. UNLESS INDICATED OTHERWISE ON THE PLANS, REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS, TREES AND OTHER DEBRIS, WITHIN THE LIMITS OF THE WORK, FROM THE SITE AND DISPOSE OF IN AN APPROVED LANDFILL. DO NOT BURY ANY WASTE MATERIAL ON SITE.
17. FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
18. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
19. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO GRADING.
20. VERIFY EXISTING TOPOGRAPHIC DATA, LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
21. CUT AND FILL SLOPES 2:1 OR FLATTER (SEE PLANS).
22. GRASS AND RIP RAP ALL OPEN DRAINAGE SWALES AS NECESSARY TO CONTROL EROSION.
23. STRIP AND STOCKPILE TOPSOIL. SPREAD 4" OF TOPSOIL ON LANDSCAPE AREAS AND REMOVE EXCESS TOPSOIL FROM SITE. PREPARE SUB GRADE FOR PAVEMENT AND CURBS AND BACK FILL CURBS AFTER CURB CONSTRUCTION.
24. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
25. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.
26. CONFINE OFF–SITE ACTIVITIES TO EXISTING RIGHTS OF WAY AND EASEMENTS.
27. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
28. COORDINATE WITH BUILDING PLUMBING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
29. INSTALL GATE VALVES IN HEAVY DUTY ROADWAY VALVE BOXES FOR ALL WATER VALVES.
30. AT COMPLETION OF SEWER AND WATER CONSTRUCTION, SET ALL MANHOLES, VALVE BOXES, METERS AND APPURTENANCES FOR PROPER FINISH GRADE. NOTICEABLY STAKE AND FLAG. SITE UTILITY SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE ABOVE ITEMS UNTIL SYSTEM IS ACCEPTED BY OWNER.
31. INSTALL HYDRANTS AND MAINS UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
32. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE MAY CAUSE THE WORK TO BE UNACCEPTABLE.
33. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT. READY TO USE. FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB.
34. CHECK ALL BUILDING DIMENSIONS AND COORDINATE WITH THE ARCHITECTURAL PLANS.
35. PAINT PAVEMENT MARKING, INCLUDING STANDARD HANDICAP SYMBOLS, PARKING STRIPING AND TRAFFIC ARROWS, ON PAVEMENT AT LOCATIONS SHOWN. SEE PAVEMENT MARKING DETAIL.
36. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.
37. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO CLEARING GRADING AND DEMOLITION WORK. MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES UNTIL ACCEPTANCE OF THE SITE BY THE OWNER.
38. ALL GRADING AND SITE PREPARATION SHALL CONFORM WITH SPECIFICATIONS CONTAINED IN REPORT OF GEOTECHNICAL INVESTIGATION PREPARED BY NOVA, DATED MAY 22, 2009.
39. ON–SITE FIRE PROTECTION SYSTEM LAYOUTS ARE SHOWN FOR LAND DISTURBANCE PERMIT INFORMATION ONLY. PROVIDE FINAL DESIGN AND PERMIT FROM THE FIRE PROTECTION CONTRACTOR. INSTALL VAULTS, METERS, MAINS, HYDRANTS, AND APPURTENANCES ONLY AFTER FIRE DEPARTMENT APPROVAL OF THE FIRE PROTECTION CONTRACTOR'S PLANS.

OWNER/DEVELOPER

GSFIC
270 WASHINGTON ST.
SECOND FLOOR
ATLANTA, GEORGIA 30334
404–463–5738

ENGINEER

MATTHEW BRUNE
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452–7849

24 HOUR CONTACT

JOEL HEATON
404–463–5758

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1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 029195 PROFESSIONAL ENGINEER 1-19-11 MATTHEW KURT BRUNE

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

ISSUE
BID SET

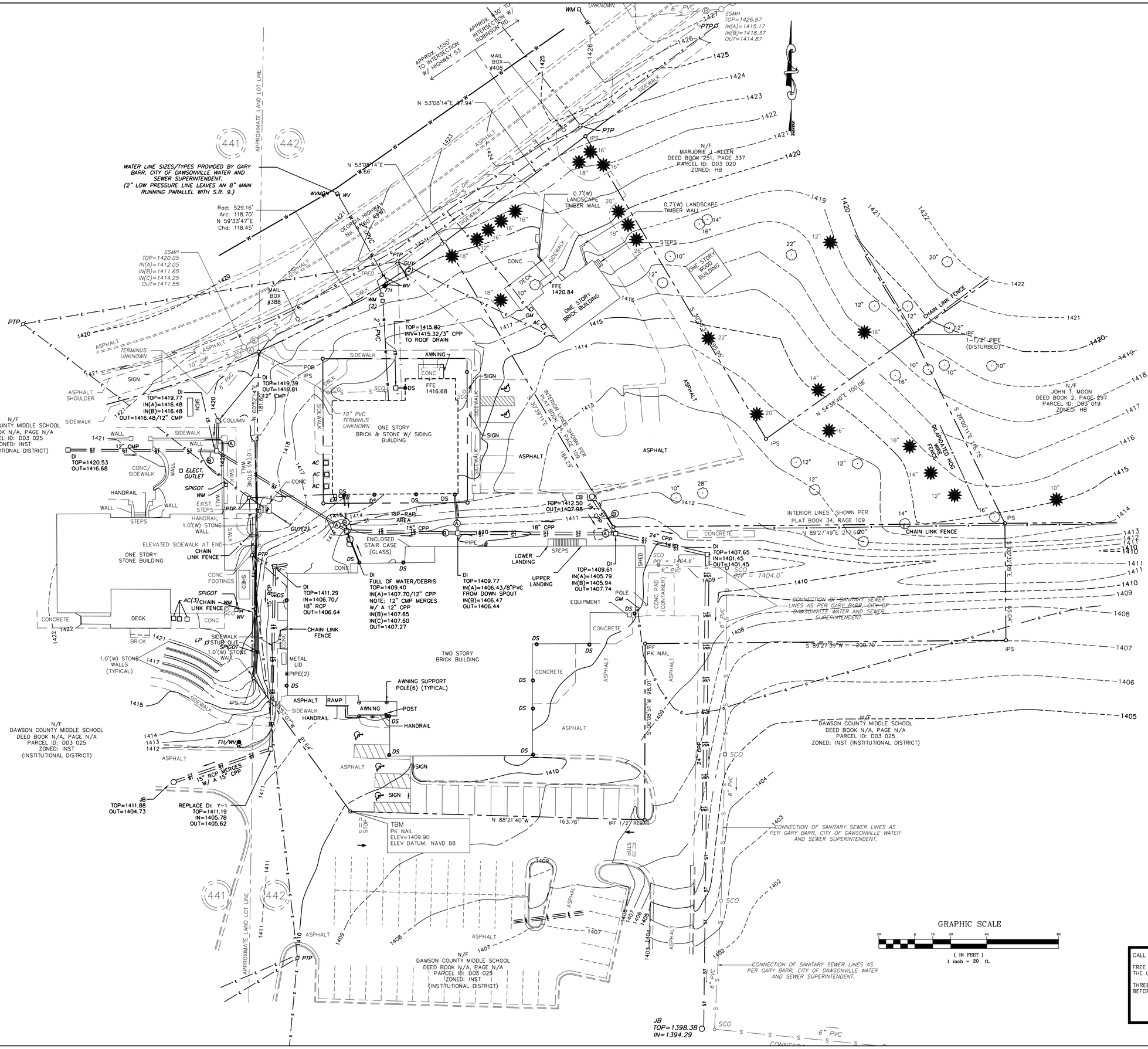
SHEET TITLE
CIVIL GENERAL NOTES

SHEET NO.
C0.01

RPR# 10759

PLOT DATE:

TEMPLATE VERSION



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3445 PEACHTREE ROAD, NE
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1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
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89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
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USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 027785 PROFESSIONAL 4-19-11 ENGINEER MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
EXISTING CONDITIONS

SHEET NO.
C1.01

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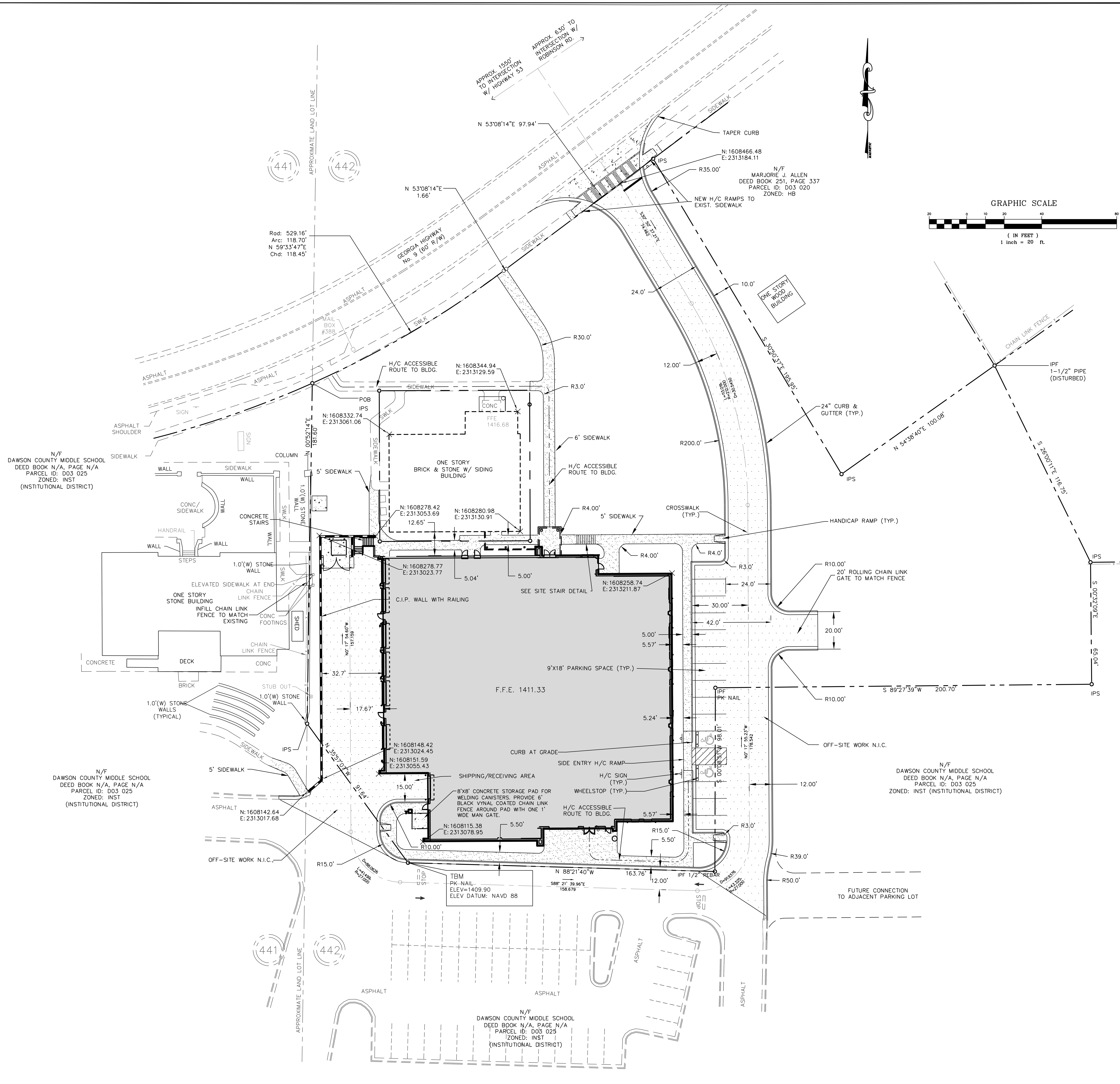

NOTES

1. USE ARCHITECTURAL PLANS FOR BUILDING STAKE OUT.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF BUILDING, CURB, OR WALL UNLESS OTHERWISE NOTED.

PAVING LEGEND

- CONCRETE S/W
- CONCRETE PAVING
- H.D. ASPHALT
- PAVING, C&G NOT IN CONTRACT

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PLOT DATE: 9/18/2009 11:19:09 PM TEMPLATE VERSION: 2.1.0.20090508

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SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033165 PROFESSIONAL ENGINEER MATTHEW KURT BRUNE 4-19-11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

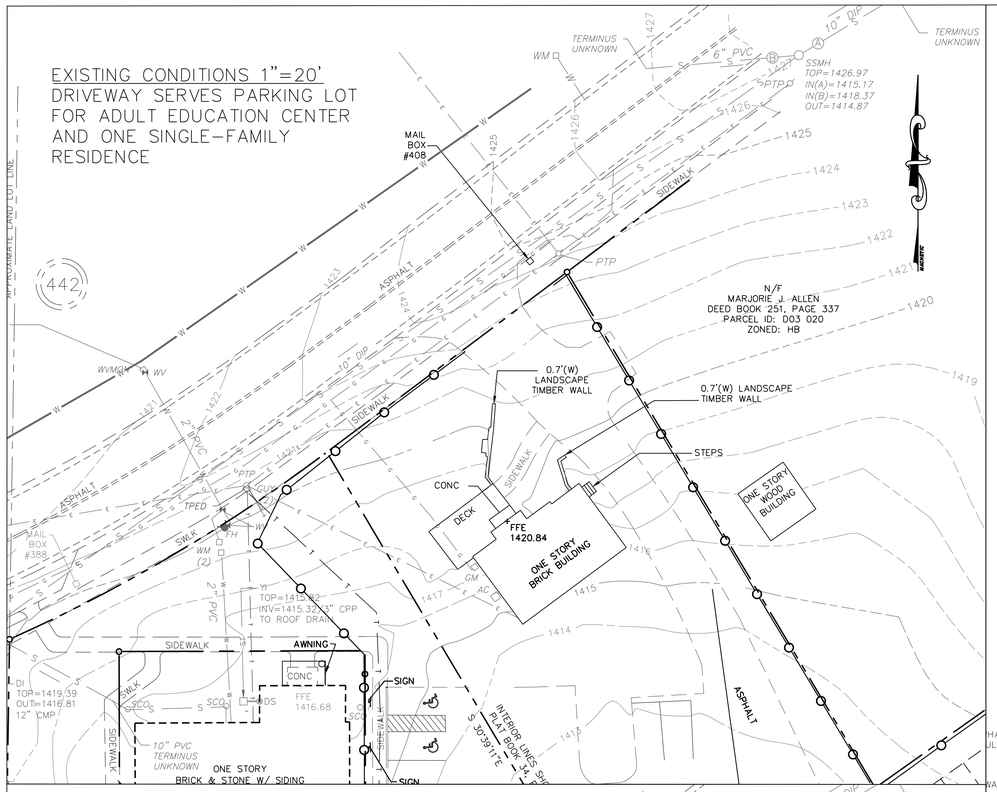
HKS PROJECT NUMBER
12528.000

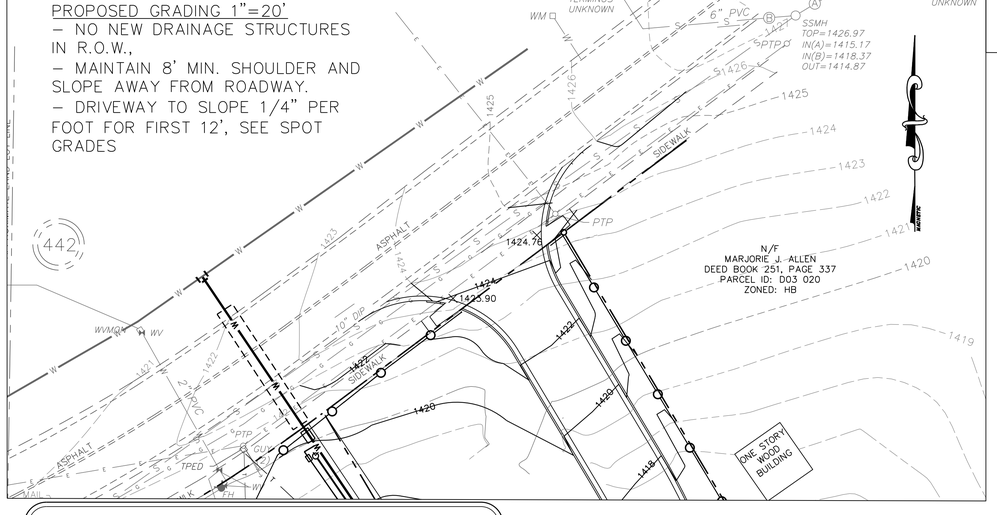
DATE
APR. 19, 2011

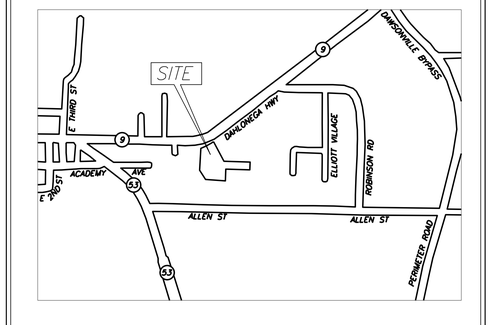
ISSUE
BID SET

SHEET TITLE
LAYOUT PLAN

SHEET NO.
C2.01

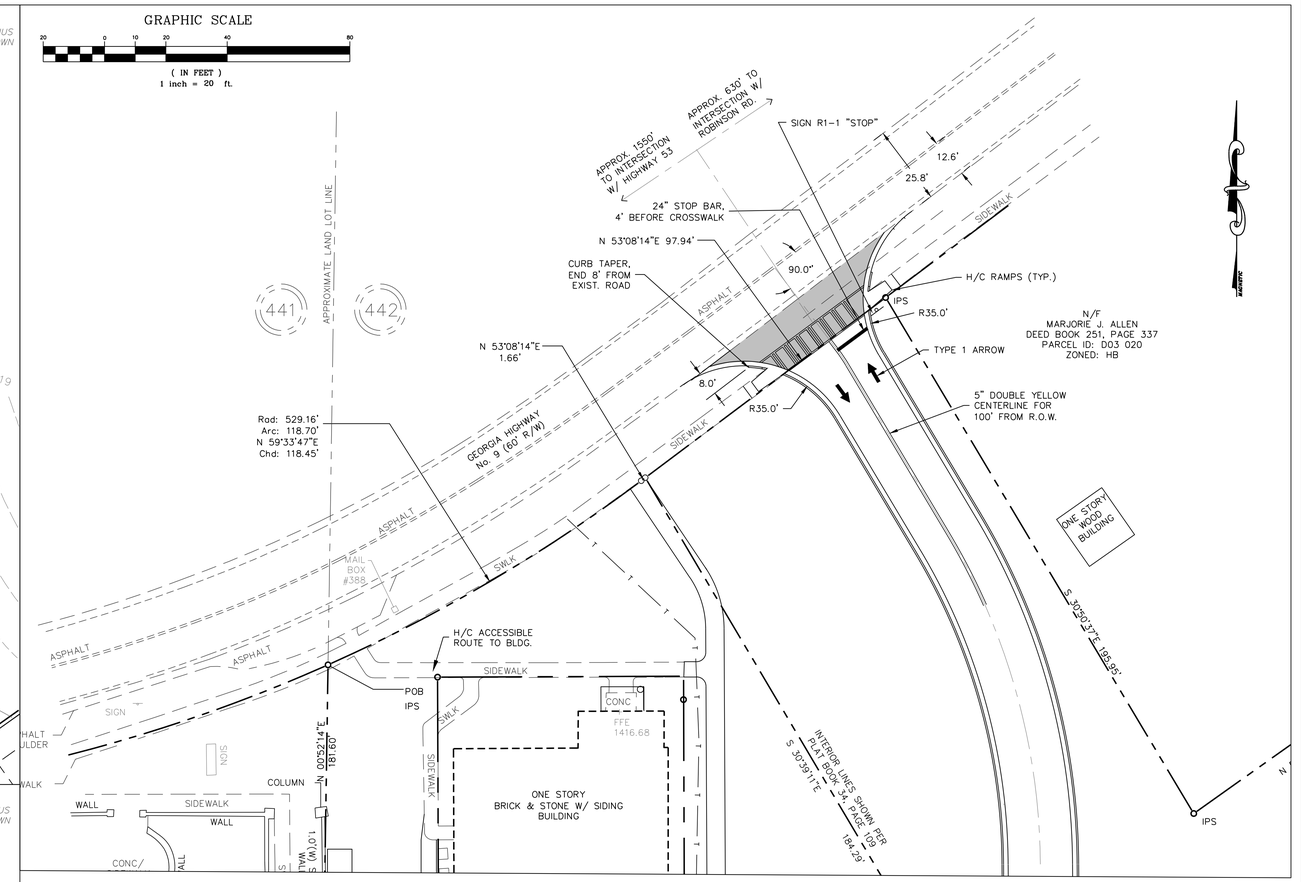


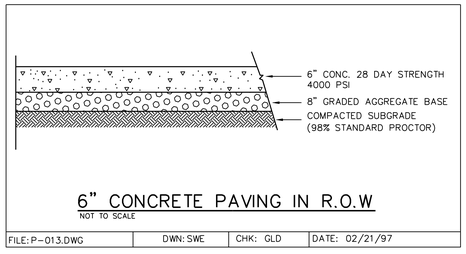




LOCATION MAP
N.T.S.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.





6" CONCRETE PAVING IN R.O.W
NOT TO SCALE

FILE: P-013.DWG	DWN: SWE	CHK: GLD	DATE: 02/21/97

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY, AND BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVE PLAN DOES NOT PROVIDES FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND. OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

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ENGINEER
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EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452-7849

24 HOUR CONTACT
JOEL HEATON
404-463-5758

SITE DISTANCE CERTIFICATION

I, THE UNDERSIGNED, HEREBY CERTIFY THE SIGHT DISTANCE FOR THE PROPOSED IS DESIGNED WITH ADEQUATE DISTANCE. THE REGULATED SPEED LIMIT ON THE APPROACHING THOROUGHFARE IS 35 MPH. THE DESIGNED SIGHT DISTANCE PROVIDES VISIBILITY OF 450+ FT TO THE LEFT AND 450+ FT TO THE RIGHT. THE SIGHT DISTANCE SHALL BE MEASURED FROM A POINT OF 15 FT FROM THE EDGE OF PAVEMENT AND 3.5 FT IN HEIGHT ABOVE THE ROADWAY.

Matthew K Brune, P.E.

GEORGIA D.O.T. NOTES

THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ONTO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION, (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM. (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRASS TO DOT SPECIFICATIONS ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSED. NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATION:

1 1/4"	9.5MM SUPERPAVE
2"	19MM SUPERPAVE
8"	25MM SUPERPAVE
12"	GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

CONCRETE PAVING IN ROW

RPR# 10759

HKS

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1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
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1201 PEACHTREE STREET, N.E. SUITE 1600
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316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 026195 PROFESSIONAL ENGINEER 1-19-11 MATTHEW KURT BRUNE

KEY PLAN

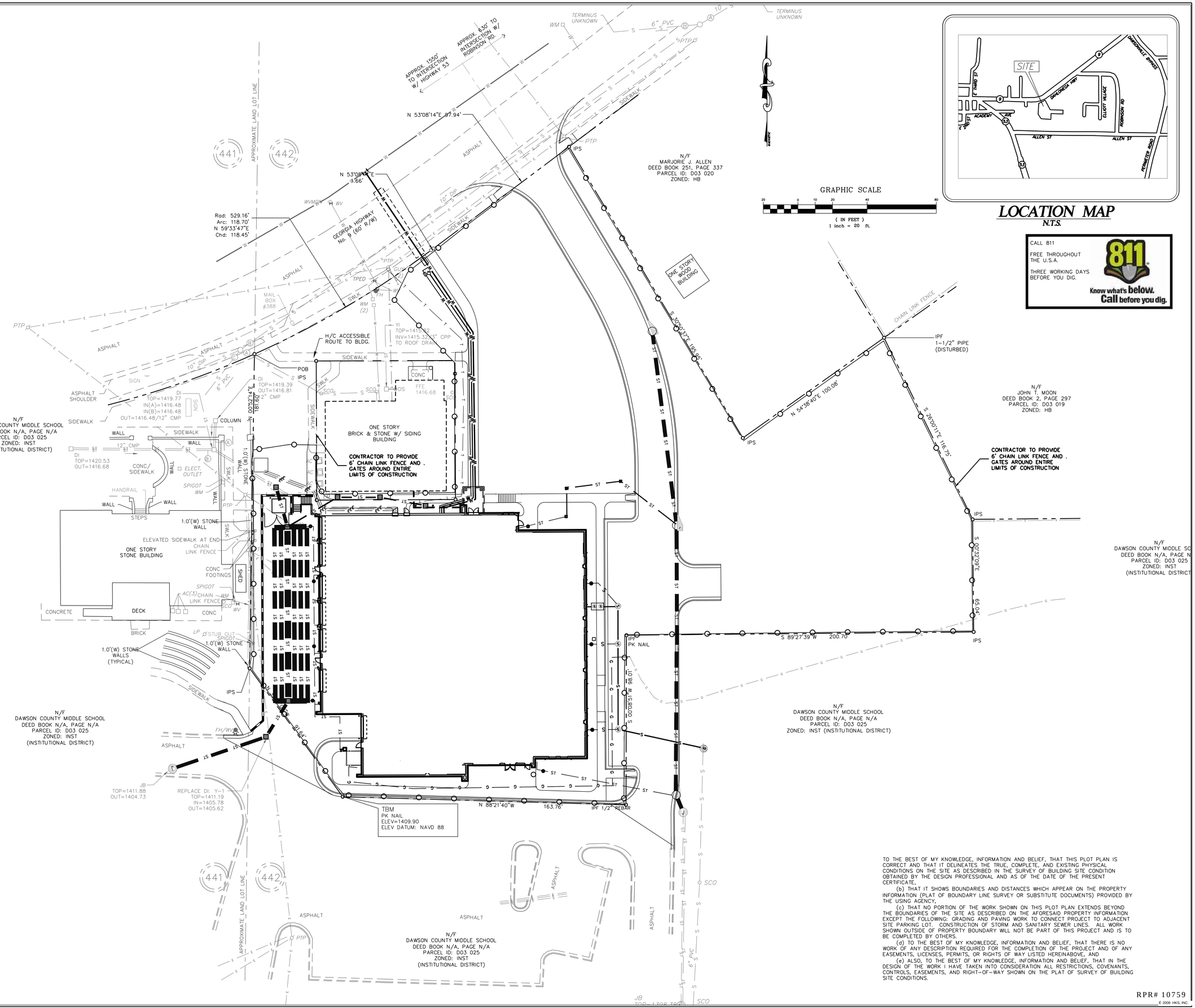
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
GADOT PLAN

SHEET NO.
C2.02

PLOT DATE: 01/8/2009 11:59:09 PM TEMPLATE VERSION: 2.1.0.20090508



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LOCATION MAP
N.T.S.

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TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PLOT PLAN IS CORRECT AND THAT IT DELINEATES THE TRUE, COMPLETE, AND EXISTING PHYSICAL CONDITIONS ON THE SITE AS DESCRIBED IN THE SURVEY OF BUILDING SITE CONDITION OBTAINED BY THE DESIGN PROFESSIONAL AND AS OF THE DATE OF THE PRESENT CERTIFICATE,

(b) THAT IT SHOWS BOUNDARIES AND DISTANCES WHICH APPEAR ON THE PROPERTY INFORMATION (PLAT OF BOUNDARY LINE SURVEY OR SUBSTITUTE DOCUMENTS) PROVIDED BY THE USING AGENCY,

(c) THAT NO PORTION OF THE WORK SHOWN ON THIS PLOT PLAN EXTENDS BEYOND THE BOUNDARIES OF THE SITE AS DESCRIBED ON THE AFORESAID PROPERTY INFORMATION EXCEPT THE FOLLOWING: GRADING AND PAVING WORK TO CONNECT PROJECT TO ADJACENT SITE PARKING LOT. CONSTRUCTION OF STORM AND SANITARY SEWER LINES. ALL WORK SHOWN OUTSIDE OF PROPERTY BOUNDARY WILL NOT BE PART OF THIS PROJECT AND IS TO BE COMPLETED BY OTHERS.

(d) TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THERE IS NO WORK OF ANY DESCRIPTION REQUIRED FOR THE COMPLETION OF THE PROJECT AND OF ANY EASEMENTS, LICENSES, PERMITS, OR RIGHTS OF WAY LISTED HEREINABOVE, AND

(e) ALSO, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT IN THE DESIGN OF THE WORK I HAVE TAKEN INTO CONSIDERATION ALL RESTRICTIONS, COVENANTS, CONTROLS, EASEMENTS, AND RIGHT-OF-WAY SHOWN ON THE PLAT OF SURVEY OF BUILDING SITE CONDITIONS.

RPR# 10759

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HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

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ATLANTA, GA. 30345

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WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
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PROJECT #: TCSG-236

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THE CONSTRUCTION DIVISION
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1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 033896 4-19-11 MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

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SHEET TITLE
SITE PLOT PLAN

SHEET NO.
C2.03

PLOT DATE
9/18/2009 11:19:09 PM TEMPLATE VERSION 0.20090908

MAINTAIN MIN. 6' SHOULDER OFF HIGHWAY AND 4:1 SLOPES AROUND DRIVEWAY

APPROXIMATE LAND LOT LINE

441 442

ASPHALT

SIDEWALK

MAIL BOX #388

H/C ACCESSIBLE ROUTE TO BLDG.

YI TOP=1415.82 INV=1415.32/3" CPP TO ROOF DRAIN

CONC

DS

FFE 1416.68

ONE STORY BRICK & STONE W/ SIDING BUILDING

ASPHALT SHOULDER

SIGN

DI TOP=1419.77 IN(A)=1416.48 IN(B)=1416.48 OUT=1416.48/12" CMP

DI TOP=1419.39 OUT=1416.81 12" CMP

COLUMN

WALL

12" CMP

DI TOP=1420.53 OUT=1416.68

CONC/ SIDEWALK

HANDRAIL

STEPS

T.O.W. 1419.0 B.O.W. 1410.2

1.0'(W) STONE WALL

ELEVATED SIDEWALK AT END

CHAIN LINK FENCE

ONE STORY STONE BUILDING

T.O.W. 1418.5 B.O.W. 1410.3

CONC FOOTINGS

SHED

DECK

CONCRETE

BRICK

STUB OUT

1.0'(W) STONE WALLS (TYPICAL)

T.O.W. 1415.0 B.O.W. 1410.0

T.O.W. 1412.5 B.O.W. 1411.0

T.O.W. 1412.1 B.O.W. 1411.1

TRENCH CUT ASPHALT AND REMOVE EXIST. PIPE

JB TOP=1411.88 OUT=1404.73

REPLACE DI: Y-1 TOP=1411.19 IN=1405.78 OUT=1405.62

ALL WORK OUTSIDE OF PROPERTY LINES, N.I.C.

RECONNECT EXIST. ROOF DRAIN LINE TO NEW STORM LINE BETWEEN BUILDINGS

GA DOT 1019A TYPE "C"

8" PVC

D.I. Y-5 GA DOT 1019A TYPE "C" 15" RCP

15" SQUARE YARD INLETS CAST IRON GRATE

18" RCP

LIMITS OF DISTURBANCE

S.W.C.B. Z-6 GA DOT 1033D

CHAIN LINK FENCE

ONE STORY WOOD BUILDING

Y.I. Y-4-1

Y.I. Y-4-2

Y.I. Y-4-3

D.I. Y-4 GA DOT 1019A TYPE "C"

10" PVC

6" PVC

S.W.C.B. Z-5 GA DOT 1033D

CONNECT EACH TRENCH DRAIN TO ROOF DRAIN LINES

F.F.E. 1410.35

(6) 30" C.M.P.

R.D.C.O. (TYP.)

D.I. Y-3 GA DOT 1019A TYPE "C"

ROOF DRAIN LINES COLLECT ALL DOWNSPOUTS AND ROUTE TO DETENTION PIPES, SEE ARCH FOR DOWNSPOUT LOCATIONS

D.I. Z-4 GA DOT 1034D

ALL WORK OUTSIDE OF PROPERTY LINES, N.I.C.

S.W.C.B. Z-3 GA DOT 1033D

J.B. Z-2

EXISTING 24" RCP

JB TOP=1398.38 IN=1394.29

EXIST. J.B. Z-1

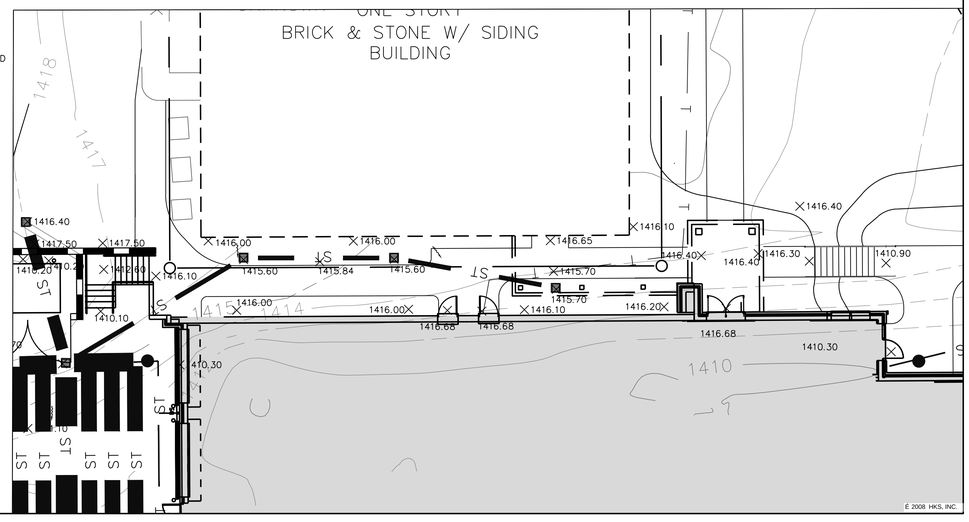
TBM
PK NAIL
ELEV=1409.90
ELEV DATUM: NAVD 88

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

GRADING DETAIL VIEW
1"=5'



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3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL 1-19-11 ENGINEER MATTHEW KURT RUHNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
GRADING & DRAINAGE PLAN

SHEET NO.
C3.01

PLOT DATE: 01/25/2009 11:19:09 PM TEMPLATE VERSION: 2.10.20090508

FLOW DATA PROVIDED BY DAWSON COUNTY EMERGENCY SERVICES

7/18/2009 12:23 7063443693 DAWSON CO EMERG SVCS PAGE 05/06

Fire

Hydrant Flow Test By Hydrant

Hydrant Number = "HIGH63 "

HIGH63 HIGHWAY 9 N/Adult Learning Center

Date	Static	Residual	Stdot	Pitot 2	GPM	20 PSI	10 PSI	0 PSI
06/15/2009	40	30	0.00	5.00	960	0	0	0
1032	Dooley, Jason M							
Subtotal Flow Tests:		1		Min:	960	0	0	0
				Max:	960	0	0	0
				Avg:	960	0	0	0
Total Flow Tests:	1							

RPR# 10759

CALL 811

FREE THROUGHOUT THE U.S.A.

THREE WORKING DAYS BEFORE YOU DIG.

811 Know what's below. Call before you dig.

NOTES

1. PROVIDE ALL VALVES, BENDS, TEES, BFP, THRUST BLOCKING, AND METERS AS REQUIRED FOR INSTALLATION OF THE WATER LINE.
2. COORDINATE WITH LOCAL MUNICIPALITY FOR PAYMENT AND INSTALLATION OF THE VAULT AND METER.
3. NO PORTION OF THIS PROPERTY LIES IN THE FLOOD HAZARD ZONE AE AS PER THE DAWSON COUNTY F.I.R.M. COMMUNITY PANEL NO. 13085C0111B DATED SEPT. 26, 2008.
4. MAXIMUM CUT OR FILL SLOPE IS 3H:1V.
5. EBERLY & ASSOCIATES DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE EXISTING UTILITY INFORMATION SHOWN IS CORRECT, ACCURATE OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE FIELD LOCATION AND PROTECTION OF ALL OVERHEAD AND SUBSURFACE LINE AND FACILITIES WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE EXCAVATION, DEMOLITION OR UTILITY WORK. FURTHER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION OF THE GAS LINE WITH THE ARCHITECT, THE MEP ENGINEER, AND THE APPROPRIATE UTILITY COMPANY.INFORMATION DEPICTED ON THE PLAN IS FOR INFORMATIONAL PURPOSES ONLY.
6. ALL MANHOLES SHALL BE VACUUM TESTED. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY PLACE THE PLUG FROM BEING DRAWN INTO THE MANHOLE. THE TEST HEAD SHALL BE PLACED AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS. A VACUUM PUMP OF TEN (10) INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP NINE (9) INCHES. TESTING TIMES SHALL BE TAKEN FROM ASTM C 1244-93, AS AMENDED TO DATE.
7. IN LIEU OF AN INFILTRATION TEST, THE CONTRACTOR MAY PERFORM A LOW-PRESSURE AIR TEST. AFTER STABILIZING AT 4 PSI, THE TEST PRESSURE IS 3.5 PSI AND MAY NOT DROP OVER 1 PSI DURING THE TEST. MINIMUM TEST TIMES FOR VARIOUS PIPE SIZES SHALL BE IN ACCORDANCE WITH UNI BELL UNI-B-6-90, AS AMENDED TO DATE.

COUNTY FIRE MARSHAL NOTES

1. PROVIDE ACCESS TO FIRE HYDRANTS AT ALL TIMES AND BE UNDER WATER PRESSURE AND READY FOR SERVICE USE PRIOR TO BEGINNING CONSTRUCTION WITH COMBUSTIBLE MATERIALS.
2. A COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE MAINTAINED ON THE CONSTRUCTION SITE AT ALL TIMES.
3. MARSHAL TO WITNESS UNDERGROUND WATER MAIN PIS TEST AND ALL CONNECTIONS BEFORE COVER-UP.
4. PROVIDE ACCESS TO BUILDING DURING CONSTRUCTION.
5. SIGNS ON ANY COMBUSTIBLE AND FLAMMABLE MATERIALS STORAGE ON SITE.

UTILITY CONTACTS:

1. *City of Dawsonville Water & Sewer (706)265-3256 CONTRACTOR RESPONSIBLE FOR WATER TAP FEE OF $12,000, SEWER TAP FEE OF $15,000, AND $75 APPLICATION FEE.*
2. *Atlanta Gas & Light (404)427-1864 NO CONNECTION FEE*
3. *Comcast (770)559-2283 NO CONNECTION FEE*
4. *Georgia Power 1-(888)660-5890 NO CONNECTION FEE*
4. *Windstream Telephone/Internet 1-(866)961-9463 NO CONNECTION FEE*

*** CONTRACTOR REQUIRED TO ARRANGE FOR AND PAY ALL REQUIRED FEES TO COMPLETE UTILITY CONNECTIONS. ***

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 035705 PROFESSIONAL 6-19-11 ENGINEER MATTHEW KURT BROME

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000

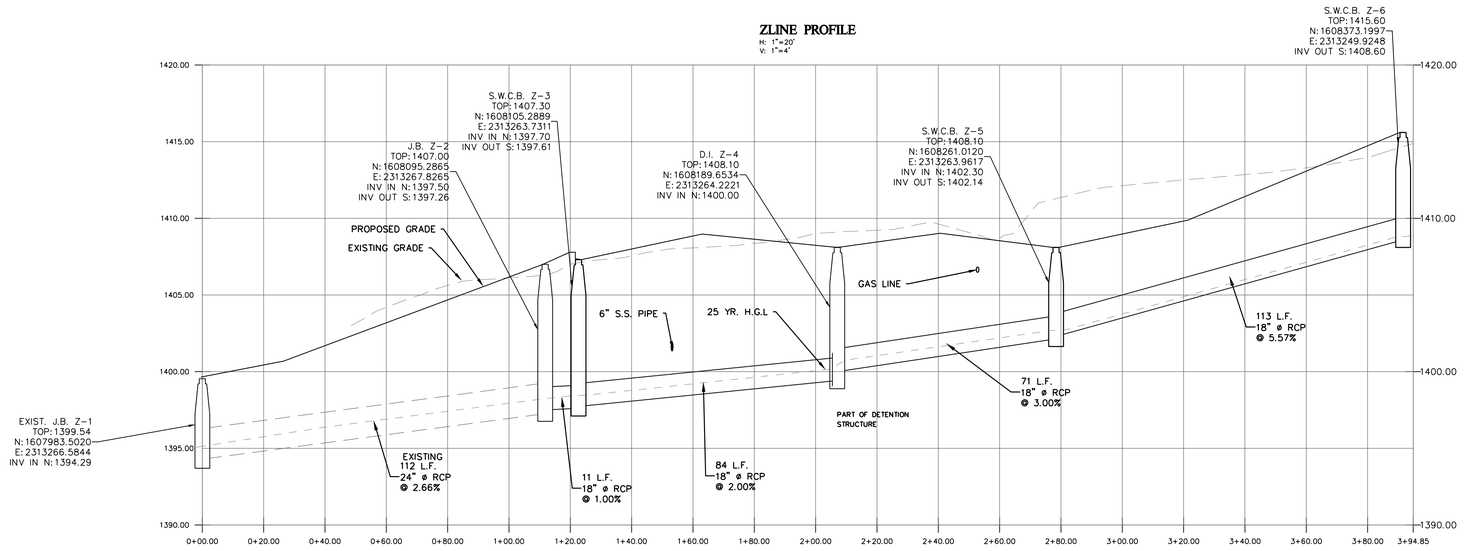
DATE
APR. 19, 2011

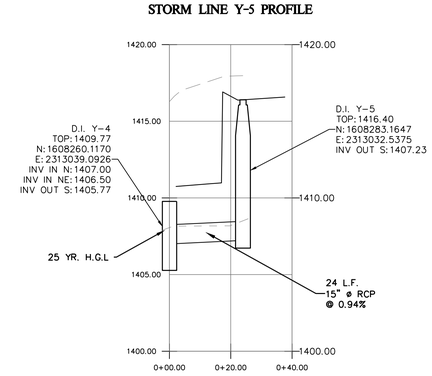
ISSUE
BID SET

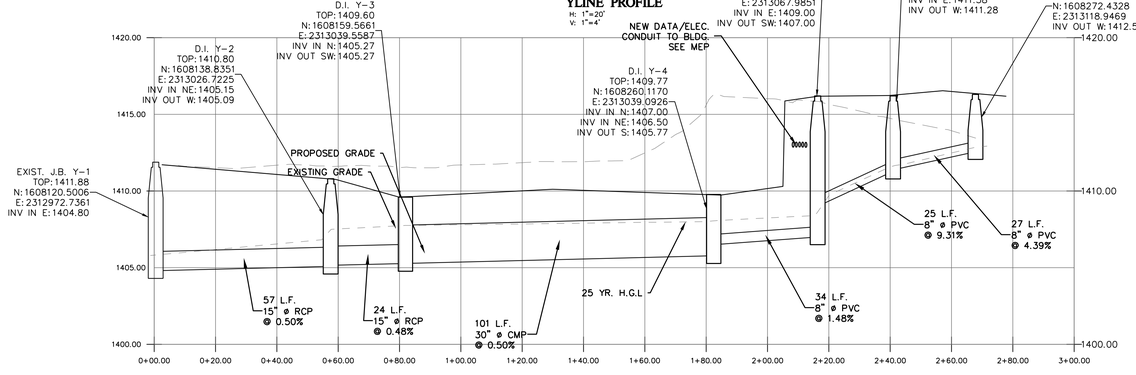
SHEET TITLE
UTILITY PLAN

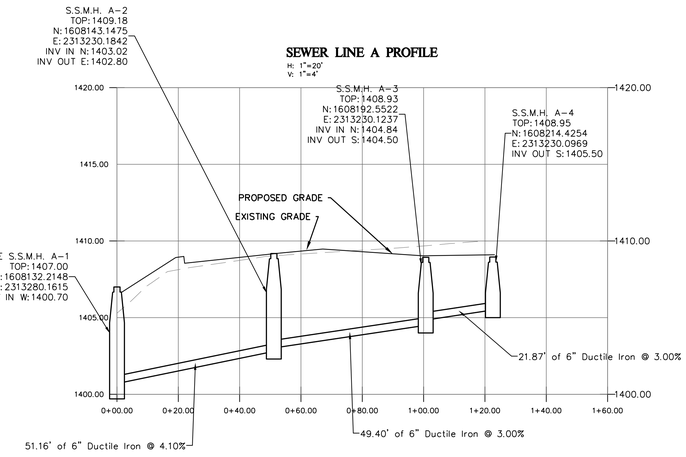
SHEET NO.
C4.01

PLOT DATE: 6/18/2009 11:39:09 PM TEMPLATE VERSION 0.20080508









STORM PIPE CHART
25 YEAR DESIGN STORM

InletID	Drainage Area (ac)	Runoff Coeff (C)	Invert Up (ft)	Invert Dn (ft)	HGL Jnct (ft)	Grnd/Rim Elev Up (ft)	Line Length (ft)	Line Size (in)	Line Slope (%)	Vel Ave (ft/s)	Flow Rate (cfs)
D.I. Y-2	0.02	0.90	1405.09	1404.80	1407.16	1410.80	57.02	15	0.51	6.17	7.24
D.I. Y-3	0.06	0.95	1405.27	1405.15	1407.81	1409.60	23.35	15	0.51	5.80	7.12
D.I. Y-4	0.55	0.95	1405.77	1405.27	1407.89	1410.68	100.73	30	0.50	1.52	6.97
Y.I. Y-4-1	0.03	0.90	1407.00	1406.50	1408.13	1416.20	35.47	8	1.41	2.50	0.87
Y.I. Y-4-2	0.03	0.90	1411.28	1409.00	1411.74	1416.20	24.54	8	9.29	3.18	0.66
Y.I. Y-4-3	0.06	0.90	1412.56	1411.38	1412.99	1416.30	26.85	8	4.39	2.53	0.45
D.I. Y-5	0.30	0.80	1407.23	1407.00	1408.01	1416.40	23.30	15	0.99	2.70	1.98
J.B. Z-2	0.00	0.00	1397.26	1394.29	1398.22	1407.00	111.79	24	2.66	4.25	4.77
S.W.C.B. Z-3	0.10	0.90	1397.61	1397.50	1398.67	1407.30	10.81	18	1.02	4.73	4.78
D.I. Z-4	0.10	0.93	1399.39	1397.70	1400.33	1408.10	84.37	18	2.00	3.99	4.22
S.W.C.B. Z-5	0.54	0.70	1402.14	1400.00	1403.01	1408.10	71.36	18	3.00	4.27	3.61
S.W.C.B. Z-6	0.13	0.90	1408.60	1402.30	1409.1	1415.60	113.06	18	5.57	1.99	0.96

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
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WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
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316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033105 PROFESSIONAL 4-19-11 ENGINEER MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

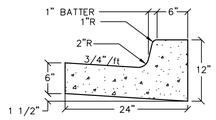
HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
UTILITY PROFILES

SHEET NO.
C5.01

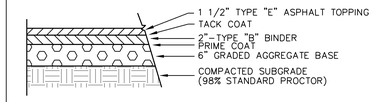
RPR# 10759

TEMPLATE VERSION:
PLOT DATE:



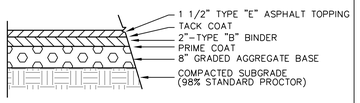
DETAIL–CURB & GUTTER
N.T.S.

FILE: C–001.DWG	DWN: SWE	CHK: GLD	DATE: 02/25/97



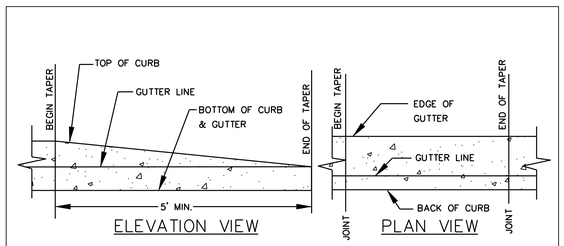
LIGHT– DUTY ASPHALT PAVING
NOT TO SCALE

FILE: P–008.DWG	DWN: SWE	CHK: GLD	DATE: 3/28/97



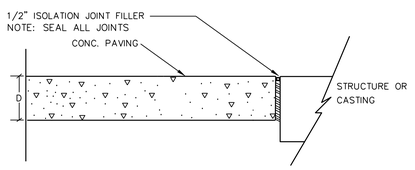
HEAVY–DUTY ASPHALT PAVING
NOT TO SCALE

FILE: P–009.DWG	DWN: SWE	CHK: SLG	DATE: 4/23/97



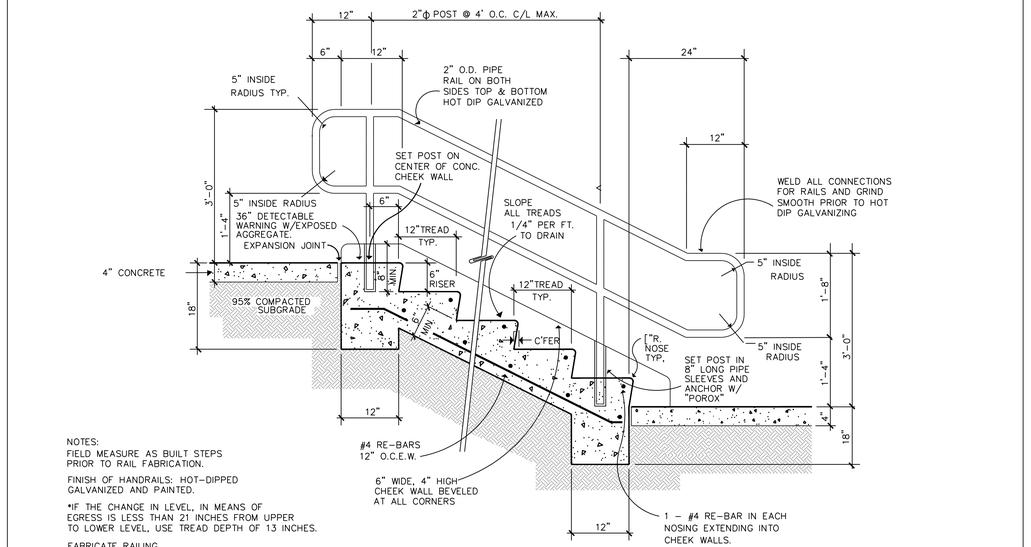
CURB TAPER
SCALE: NTS

FILE: C–005.DWG	DWN: SDS	CHK: GLD	DATE: 5/20/99



ISOLATION JOINT
NOT TO SCALE

FILE: P–007.DWG	DWN: DBW	CHK: GLD	DATE: 4/23/97



NOTES:
FIELD MEASURE AS BUILT STEPS PRIOR TO RAIL FABRICATION.

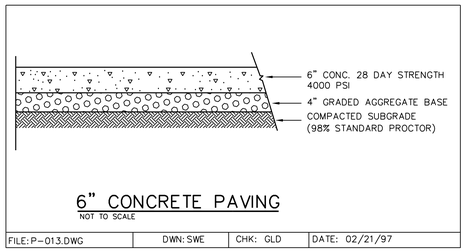
FINISH OF HANDRAILS: HOT–DIPPED GALVANIZED AND PAINTED.

*IF THE CHANGE IN LEVEL, IN MEANS OF EGRESS IS LESS THAN 21 INCHES FROM UPPER TO LOWER LEVEL, USE TREAD DEPTH OF 13 INCHES.

FABRICATE RAILING
2" (2.72#/FT) & 1 1/2" (2.27#/FT)

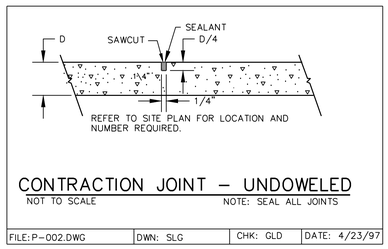
STEEL PIPE. (SCHEDULE 40 PIPE)
WELD ALL JOINTS AND GRIND SMOOTH.

FILE: SS–01.DWG	DWN: BKB	CHK: GLD	DATE: 12/25/00



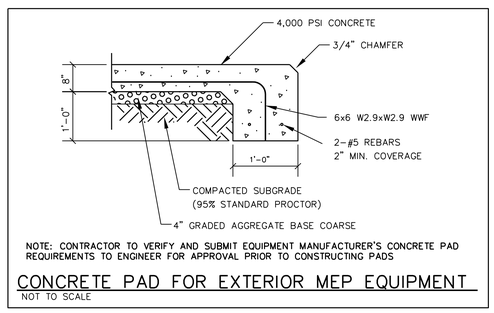
6" CONCRETE PAVING
NOT TO SCALE

FILE: P–013.DWG	DWN: SWE	CHK: GLD	DATE: 02/21/97



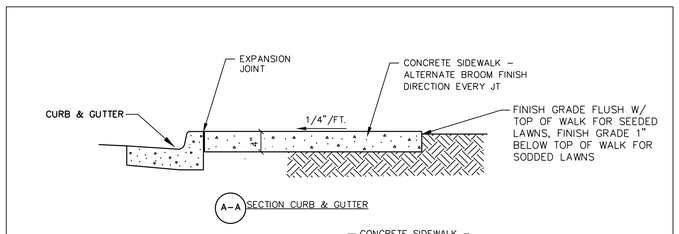
CONTRACTION JOINT – UNDOWELED
NOT TO SCALE
NOTE: SEAL ALL JOINTS

FILE: P–002.DWG	DWN: SLG	CHK: GLD	DATE: 4/23/97

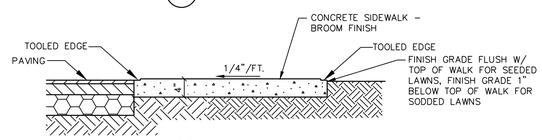


NOTE: CONTRACTOR TO VERIFY AND SUBMIT EQUIPMENT MANUFACTURER'S CONCRETE PAD REQUIREMENTS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING PADS

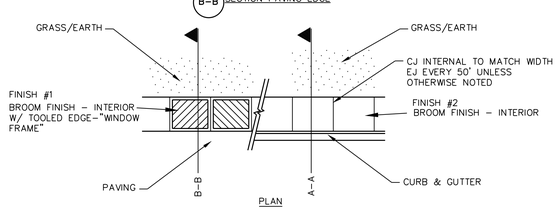
CONCRETE PAD FOR EXTERIOR MEP EQUIPMENT
NOT TO SCALE



A–A SECTION CURB & GUTTER



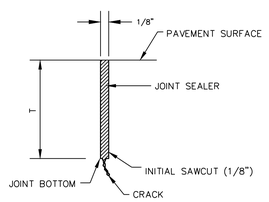
B–B SECTION PAVING EDGE



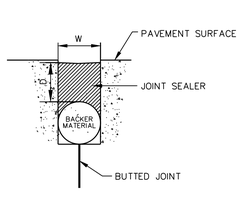
SIDEWALK DETAIL
NOT TO SCALE

FILE: SS–02.DWG	DWN: SDS	CHK: GLD	DATE: 7/6/99

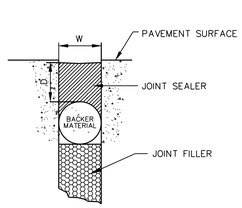
CONTRACTION JOINT



CONSTRUCTION JOINT



EXPANSION JOINT



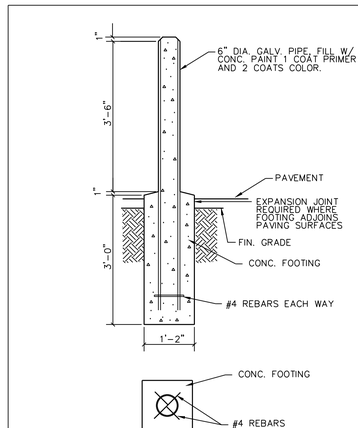
W = WIDTH OF SEALANT RESERVOIR (SEE TABLE)
D = DEPTH OF SEALANT (1.0 TO 1.5 X W)
T = DEPTH OF INITIAL SAWCUT (CONTRACTION JOINT)
a. 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12"
b. 3 INCHES FOR PAVEMENTS 12–18 INCHES
c. 1/6 SLAB THICKNESS FOR PAVEMENTS MORE THAN 18 INCHES

JOINT SPACING FT.	WIDTH IN. MIN	WIDTH IN. MAX
<25	1/2	5/8
25–50	3/4	7/8
>50	1.0	1–1/8

JOINT DETAILS
NOT TO SCALE

NOTE: SEAL ALL JOINTS

FILE: P–005.DWG	DWN: SLG	CHK: GLD	DATE: 02/21/97



BOLLARD DETAIL
NOT TO SCALE

FILE: DU–03.DWG	DWN: BKB	CHK: GLD	DATE: 10/4/97

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL 1-19-11 ENGINEER MATTHEW KURT PRUHE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

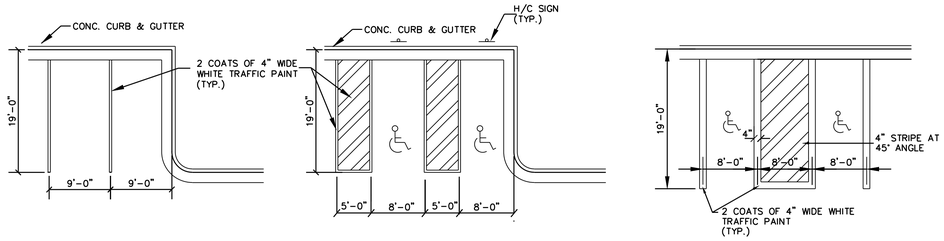
HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
CONSTRUCTION
DETAILS

SHEET NO.
C6.01

RPR# 10759

PLOT DATE: 01/25/2099 11:19:09 PM TEMPLATE VERSION: 2.1.0.20090508



REGULAR PARKING SPACES | REGULAR H/C SPACES | TYP. VAN H/C SPACE

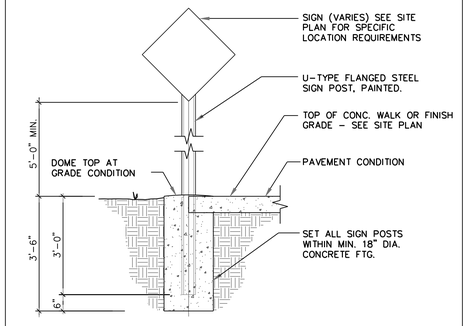
NOTE: ALL ACCESSIBLE ROUTES, FIXTURES, SLOPES, ETC: MEET ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, FED. REG. VOL 56, NO. 144.

NOTE: ONE SIGN PER H.C. PARKING SPACE. SIGN MEET STATE OF GEORGIA REGULATION.

TYPICAL H/C AND REGULAR PARKING LAYOUT

NOT TO SCALE

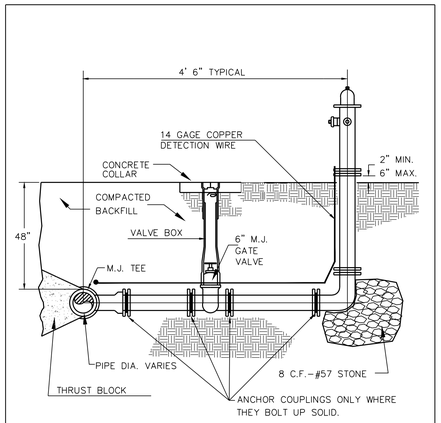
FILE: PK-03.DWG	DWN: MAW	CHK: GLD	DATE: 10/03/97



SIGN POST DETAIL

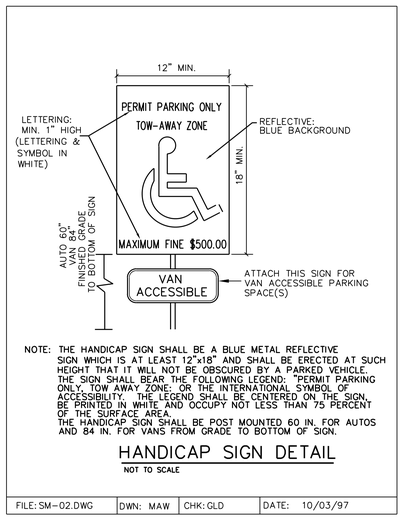
NOT TO SCALE

FILE: SM-05.DWG	DWN: BKB	CHK: GLD	DATE: 10/10/97



NOTE: FIRE HYDRANTS MAY BE MANUFACTURED BY MUELLER SUPER CENTERION, CLOW, U.S. PIPE, AMERICAN DARLING OR APPROVED EQUAL.

FIRE HYDRANT ASSEMBLY

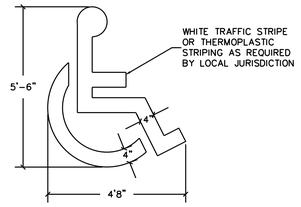


NOTE: THE HANDICAP SIGN SHALL BE A BLUE METAL REFLECTIVE SIGN WHICH IS AT LEAST 12"x18" AND SHALL BE ERECTED AT SUCH HEIGHT THAT IT WILL NOT BE OBSCURED BY A PARKED VEHICLE. THE SIGN SHALL BEAR THE FOLLOWING LEGEND: "PERMIT PARKING ONLY. TOW AWAY ZONE: OR THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE LEGEND SHALL BE CENTERED ON THE SIGN, BE PRINTED IN WHITE AND OCCUPY NOT LESS THAN 75 PERCENT OF THE SURFACE AREA.
THE HANDICAP SIGN SHALL BE POST MOUNTED 60 IN. FOR AUTOS AND 84 IN. FOR VANS FROM GRADE TO BOTTOM OF SIGN.

HANDICAP SIGN DETAIL

NOT TO SCALE

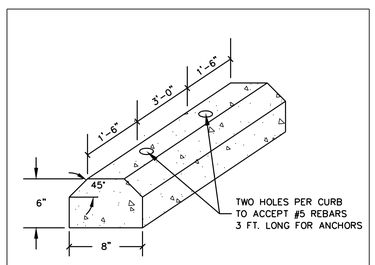
FILE: SM-02.DWG	DWN: MAW	CHK: GLD	DATE: 10/03/97



HANDICAPPED SYMBOL STRIPING DETAIL

NOT TO SCALE

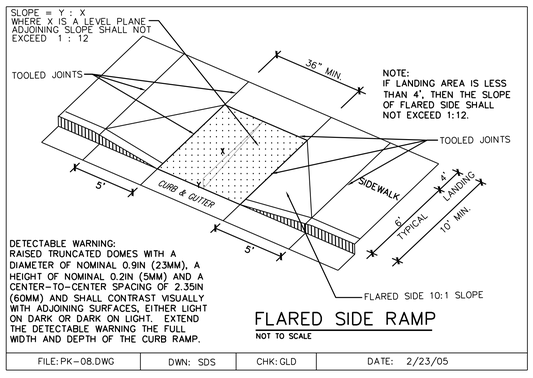
FILE: SM-03.DWG	DWN: MAW	CHK: GLD	DATE: 10/03/97



TYP. PRECAST WHEEL BLOCK

NOT TO SCALE

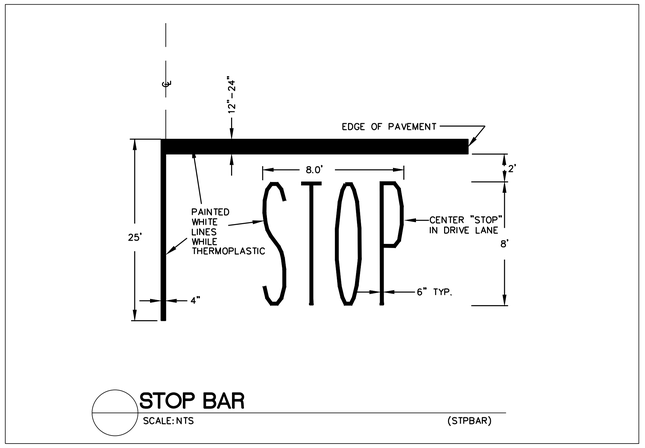
FILE: PK-02.DWG	DWN: BKB	CHK: GLD	DATE: 10/4/97



FLARED SIDE RAMP

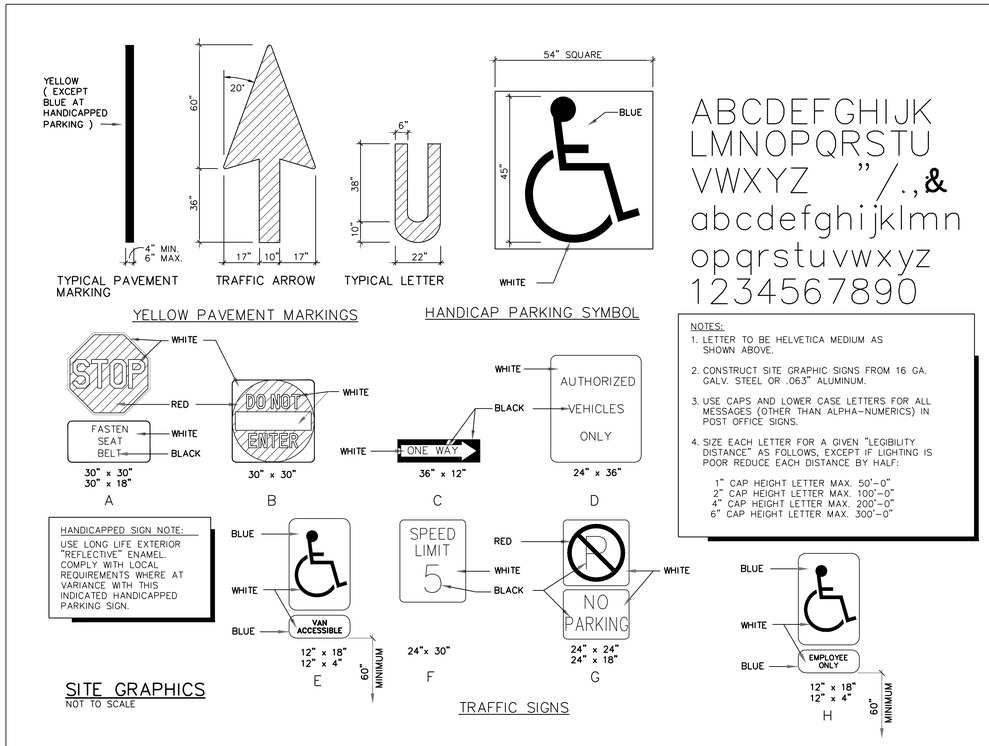
NOT TO SCALE

FILE: PK-08.DWG	DWN: SDS	CHK: GLD	DATE: 2/23/05



STOP BAR

SCALE: NTS (STPBAR)



NOTES:
1. LETTER TO BE HELVETICA MEDIUM AS SHOWN ABOVE.
2. CONSTRUCT SITE GRAPHIC SIGNS FROM 16 GA. GALV. STEEL OR .063" ALUMINUM.
3. USE CAPS AND LOWER CASE LETTERS FOR ALL MESSAGES (OTHER THAN ALPHA-NUMERICS) IN POST OFFICE SIGNS.
4. SIZE EACH LETTER FOR A GIVEN "LEGIBILITY DISTANCE" AS FOLLOWS, EXCEPT IF LIGHTING IS POOR REDUCE EACH DISTANCE BY HALF:
   1" CAP HEIGHT LETTER MAX. 50'-0"
   2" CAP HEIGHT LETTER MAX. 100'-0"
   4" CAP HEIGHT LETTER MAX. 200'-0"
   6" CAP HEIGHT LETTER MAX. 300'-0"

SITE GRAPHICS

NOT TO SCALE

TRAFFIC SIGNS

FILE: SM-06.DWG	DWN: BKB	CHK: GLD	DATE: 10/10/97

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 19195 PROFESSIONAL 4-19-11 ENGINEER MATTHEW KURT BROWNE

KEY PLAN

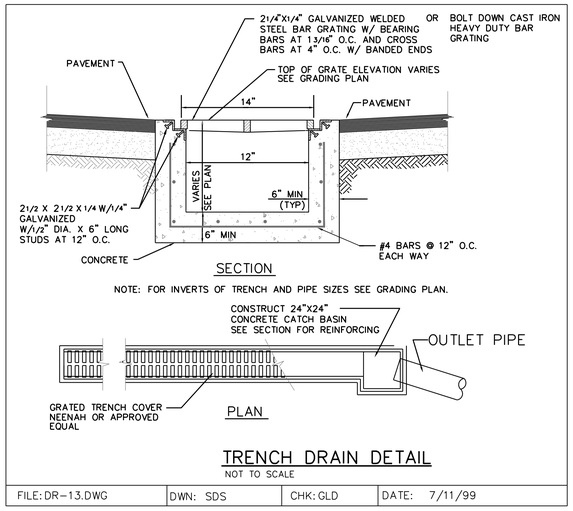
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NO.
C6.02

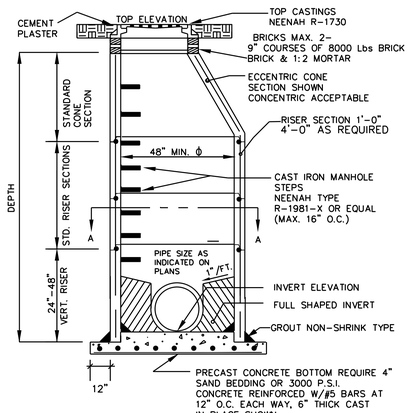
PLOT DATE: 5/18/2009 11:19:09 PM TEMPLATE VERSION 2.1.0.20090508



TRENCH DRAIN DETAIL

NOT TO SCALE

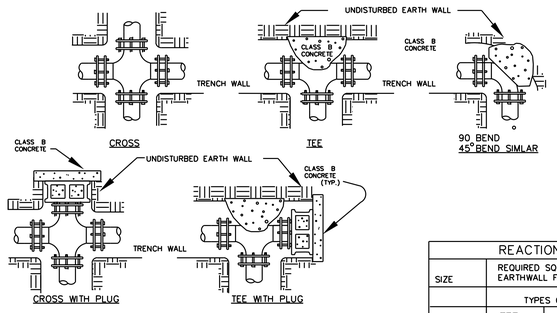
FILE: DR-13.DWG	DWN: SDS	CHK: GLD	DATE: 7/11/99



SANITARY MANHOLE

SCALE: NTS

FILE: U-06.DWG	DWN: SDS	CHK: GLD	DATE: 10/1/00



NOTES:
1. DO NOT COVER BELLS OR FLANGES WITH CONCRETE
2. WRAP ALL FITTINGS WITH VISQUEEN
3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH
4. BACK FUTURE LINE EXTENSION SUCH THAT LATER REMOVAL IS POSSIBLE
5. BACK ALL BENDS WHERE FITTINGS ARE USED BOTH HORIZONTAL OR VERTICAL
6. REACTION BACKING TABLE IS BASED ON 150 P.S.I. AND SOIL BEARING PRESSURE OF 2,500 Lbs./ Sq. ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY THE ENGINEER

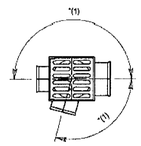
REACTION BACKING TABLE				
SIZE	REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING			
	TYPES OF FITTINGS			
	TEE	90°	45°	22 1/2°
2"	1	1	1	1
3"	1	1	1	1
4"	2	2	1	1
6"	3	3	2	1
8"	4	4	3	2
10"	7	7	4	2
12"	10	10	5	3
14"	13	13	7	4
16"	17	17	9	5
18"	21	21	12	6
20"	26	26	14	7
24"	38	38	20	10
30"	59	59	32	16
36"	85	85	46	23

THRUST BLOCK

SCALE: NTS

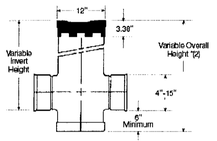
FILE: DR-19.DWG	DWN: SDS	CHK: GLD	DATE: 12/2/98

Parts/Prefix	Product Description	Available Outlets
2812AG__X	12" Custom Basin	4" thru 12"
2815AG__X	15" Custom Basin	4" thru 15"

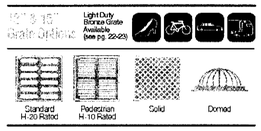


*(1) Adapters can be mounted on any angle 0° to 359°.

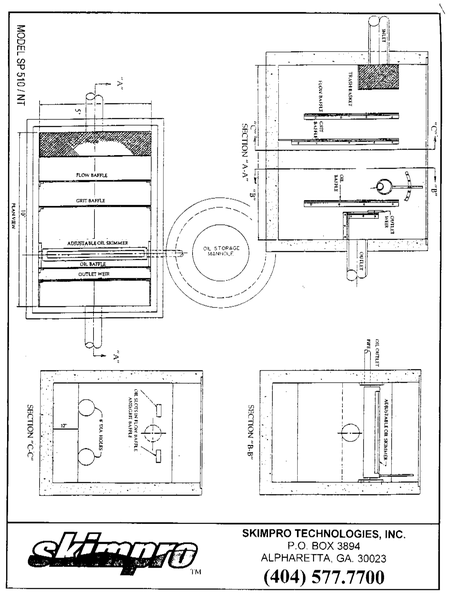
To determine minimum angle between adapters please see chart on page (1).



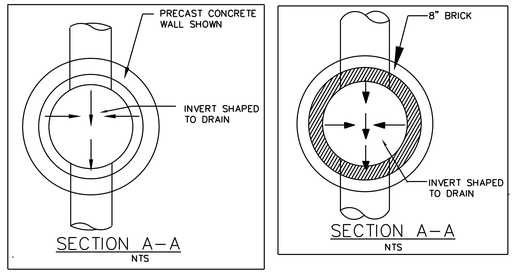
*(2) Maximum recommended overall height 10'

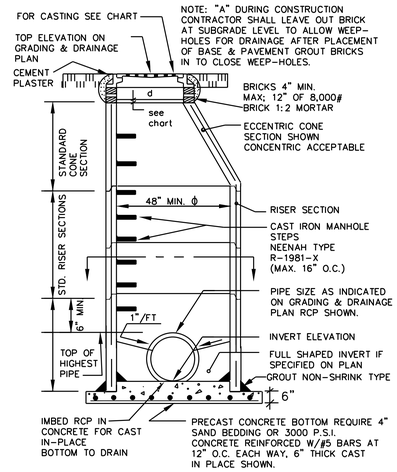


FOR YARD INLET DRAIN, USE NYLOPLAST CATCH BASINS AND GRATES OR SIMILAR PRODUCT AS APPROVED BY ENGINEER. GRATES TO BE STANDARD 15" SQUARE CAST IRON W/HINGE.



USE SKIMPRO 500 GAL OIL/GRIT SEPARATOR OR SIMILAR PRODUCT AS APPROVED BY ENGINEER.





DRAINAGE STRUCTURE NOTES:

1. DETAILS SHOWN ARE MINIMUM STANDARDS. STANDARDS REQUIRED BY JURISDICTIONAL AGENCIES SHALL SUPERCEDE DETAILS SHOWN ON THIS DRAWING AND SHALL BE UTILIZED DURING CONSTRUCTION. OBTAIN APPROVAL FROM THE INSPECTOR FOR JURISDICTIONAL AGENCIES PRIOR TO ORDERING OR INSTALLING DETAILS SHOWN.
2. DURING CONSTRUCTION, LEAVE OUT BRICK AT SUBGRADE LEVEL.
3. DETAILS SHOWN INCLUDE BLOCK/BRICK OR PRECAST CONCRETE DRAINAGE STRUCTURES. EITHER STRUCTURE MAY BE ON A PRECAST OR CAST-IN-PLACE BOTTOM AS SHOWN. INVERTS OF STRUCTURES CONSTRUCTED SO THAT THEY DRAIN TO PIPE OUTLET.
4. TOP SLAB ON SHALLOW STRUCTURES CAN BE CAST-IN-PLACE WITH REINFORCING AS SHOWN OR PRECAST TO WITHSTAND H-20 TRUCK LOADING.

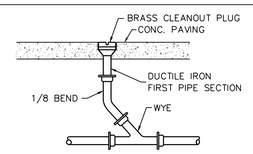
DIMENSION CHART FOR BRICK OR PRECAST MANHOLE OR INLET		
CASTING***	INSIDE TOP DIMENSION	APPLICATION
R-1730	27" CIRCULAR**	STORM MANHOLE M.H.
R-3015	25" X 24"**	CURB INLET C.I.
R-2503-E TYPE G	25 1/4" CIRCULAR**	D.I.
R258-C TYPE G	40 1/2" CIRCULAR**	LARGE CAPACITY INLET L.I.
R-4343	21" X 24"**	DROP INLET (DITCH OR NON-PAVEMENT
DEPTH "D"	BOX DIMENSIONS "W"*	
0' TO 4'	4' MINIMUM	
4' AND UP (EXCLUDING DOUBLE GRATE DROP INLET)	4' MIN. UP TO 36" CMP (24" RCP) DIA. PIPE. DIA. OF LARGEST PIPE PLUS 1'-0" FOR PIPES LARGER THAN 36" CMP (24" RCP) CMP (2'-0" RCP)	
GREATER THAN 10' AND DOUBLE GRATE DROP INLET	5' MIN. UP TO 48" CMP (36" RCP) DIA. OF LARGEST PIPE PLUS 1'-0" CMP (2'-0" RCP) FOR PIPES LARGER THAN 48" CMP (24" RCP)	
* FOR PIPE ARCHES USE SPAN DIMENSION INSTEAD OF DIAMETER ** USE ROUND TO RECTANGULAR ADAPTER SECTION WHEN USING PRECAST MANHOLE SECTIONS. *** NEENAH FOUNDRY (OR EQUAL)		

STORM MH/CATCH BASIN

SCALE: NTS (STMH)

N.T.S.

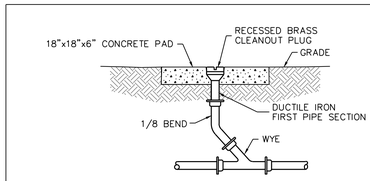
FILE: DR-17.DWG	DWN: SDS	CHK: GLD	DATE: 5/20/99



TYPICAL CLEAN OUT TO CONC. PAVING

NOT TO SCALE

FILE: U-02.DWG	DWN: BKB	CHK: GLD	DATE: 10/9/97



TYPICAL CLEAN OUT TO PERVIOUS GRADE

NOT TO SCALE

FILE: U-01.DWG	DWN: BKB	CHK: GLD	DATE: 10/9/97

RPR# 10759

TEMPLATE VERSION:

PLOT DATE:

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL 1-19-11 ENGINEER MATTHEW KURT PRUHE

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

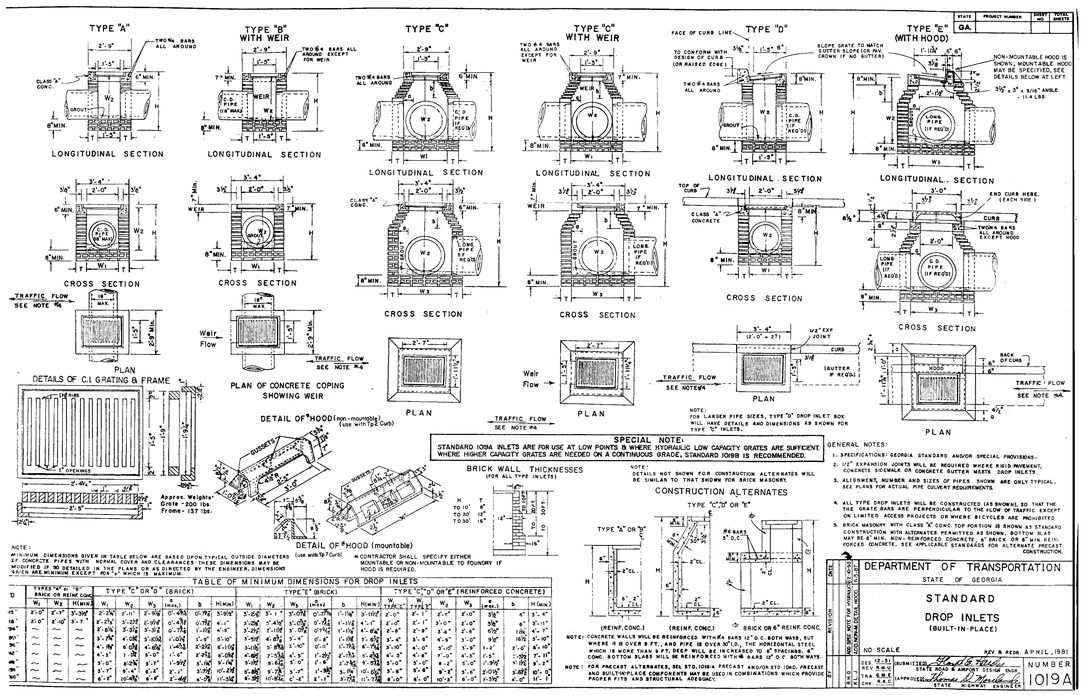
HKS PROJECT NUMBER
12528.000

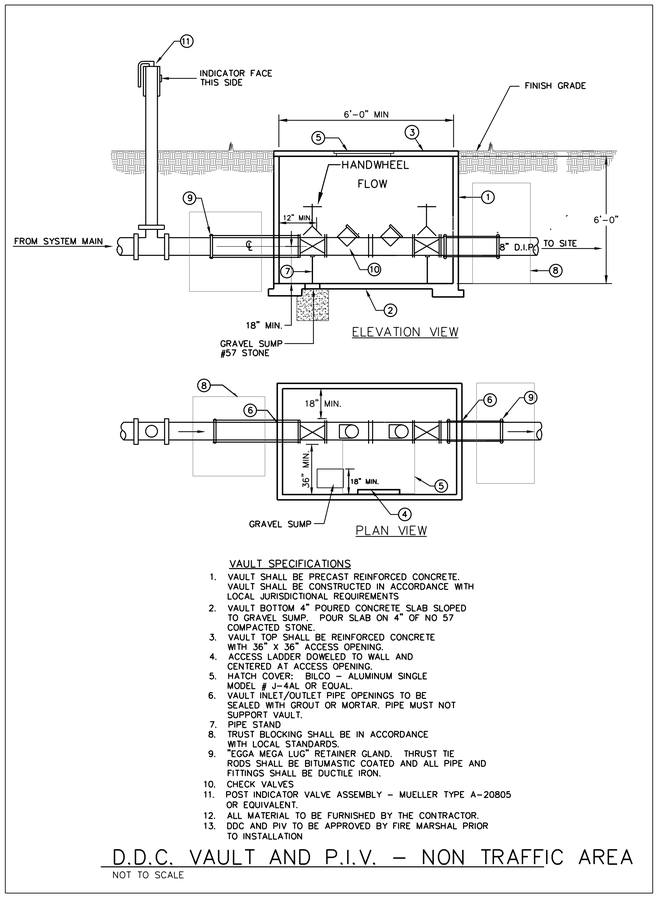
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NO.
C6.03



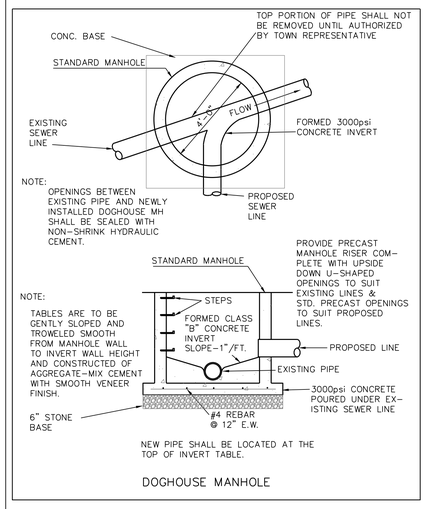


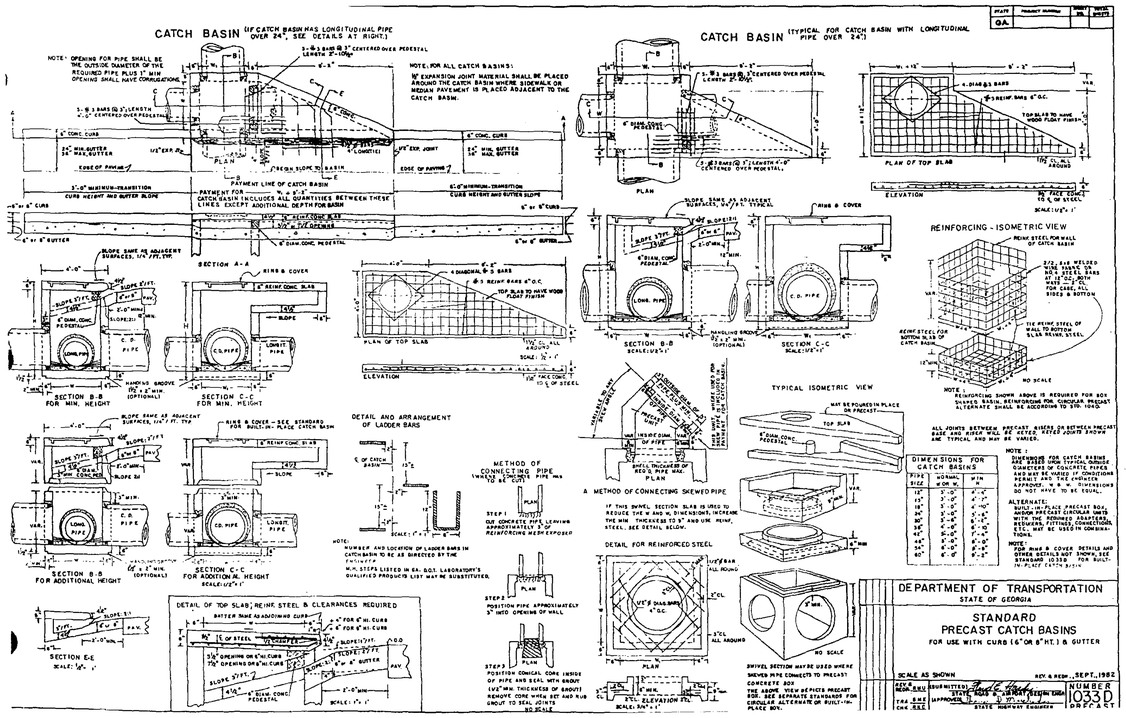
VAULT SPECIFICATIONS

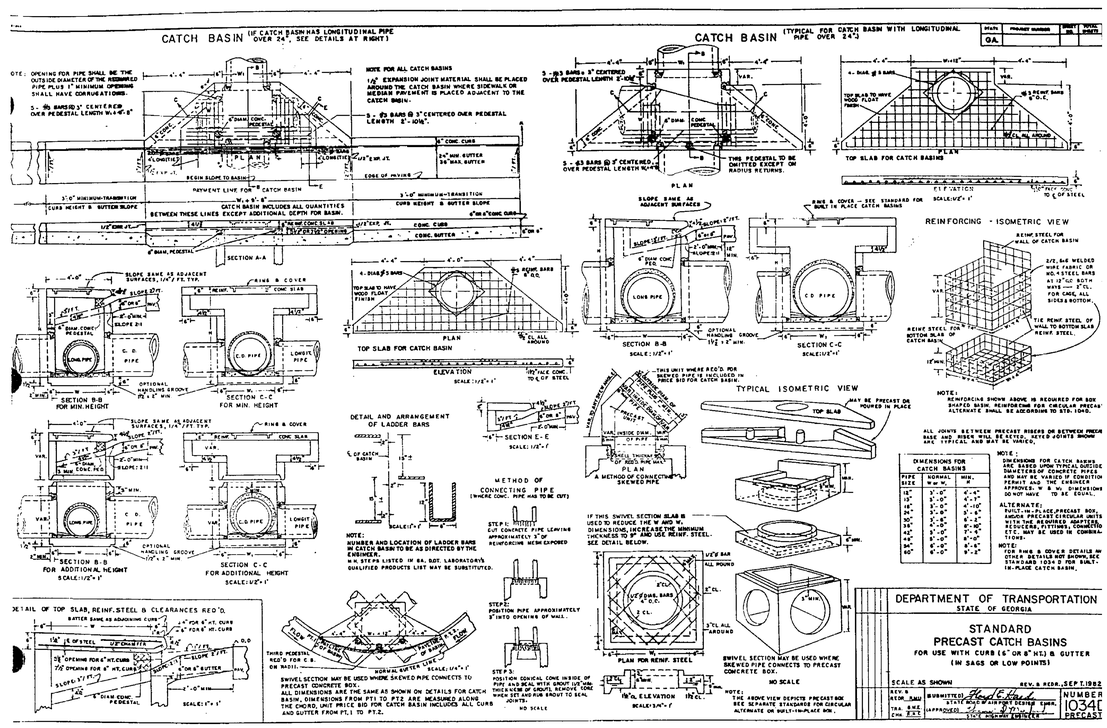
1. VAULT SHALL BE PRECAST REINFORCED CONCRETE. VAULT SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL JURISDICTIONAL REQUIREMENTS
2. VAULT BOTTOM 4" POURED CONCRETE SLAB SLOPED TO GRAVEL SUMP. POUR SLAB ON 4" OF NO 57 COMPACTED STONE.
3. VAULT TOP SHALL BE REINFORCED CONCRETE WITH 36" X 36" ACCESS OPENING.
4. ACCESS LADDER DOWELED TO WALL AND CENTERED AT ACCESS OPENING.
5. HATCH COVER: BILCO – ALUMINUM SINGLE MODEL # J-44L OR EQUAL.
6. VAULT INLET/OUTLET PIPE OPENINGS TO BE SEALED WITH GROUT OR MORTAR. PIPE MUST NOT SUPPORT VAULT.
7. PIPE STAND
8. TRUST BLOCKING SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS.
9. "EGGA MEGA LUG" RETAINER GLAND. THRUST TIE RODS SHALL BE BITUMASTIC COATED AND ALL PIPE AND FITTINGS SHALL BE DUCTILE IRON.
10. CHECK VALVES
11. POST INDICATOR VALVE ASSEMBLY – MUELLER TYPE A-20805 OR EQUIVALENT.
12. ALL MATERIAL TO BE FURNISHED BY THE CONTRACTOR.
13. DDC AND PIV TO BE APPROVED BY FIRE MARSHAL PRIOR TO INSTALLATION

D.D.C. VAULT AND P.I.V. – NON TRAFFIC AREA

NOT TO SCALE







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USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 027705 PROFESSIONAL ENGINEER MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

ISSUE
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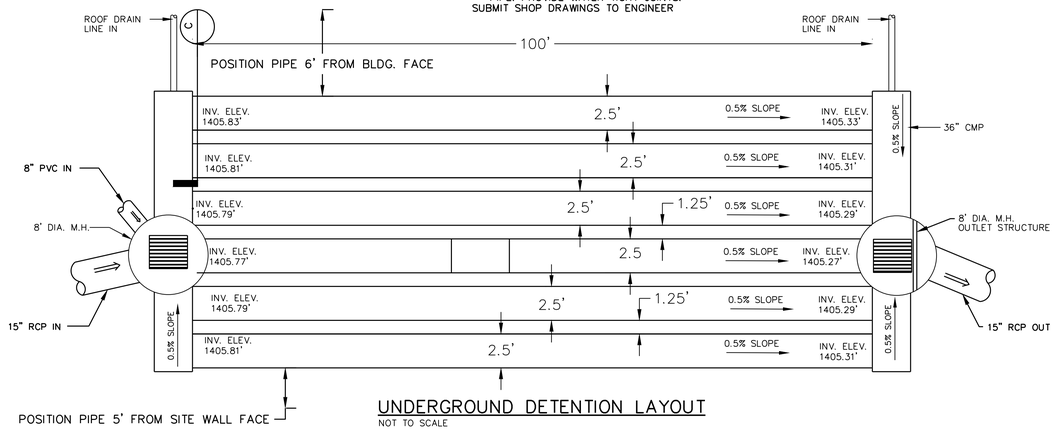
SHEET TITLE
CONSTRUCTION DETAILS

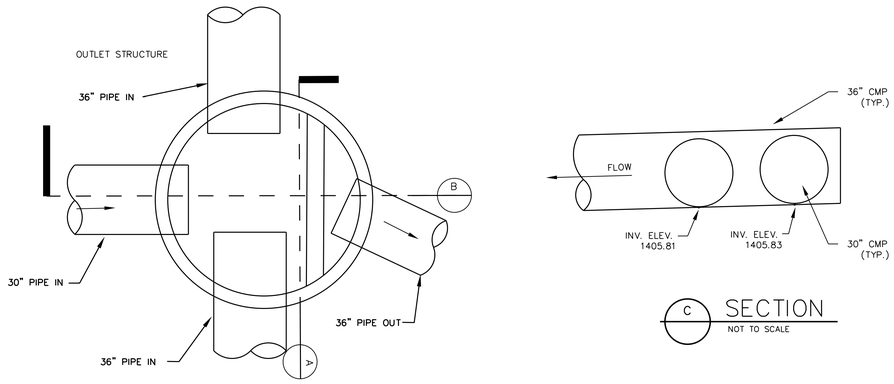
SHEET NO.
C6.04

PLOT DATE:
TEMPLATE VERSION

NOTE: 100 YR. ELEV. = 1404.24
100 YR. STORAGE = 4,852.0 C.F.
C.M.P. TO BE 16 GAUGE (MIN.)
SMOOTH INTERIOR UNTRAFLOW OR SIMILAR SPIRAL RIB ALUMINIZED TYPE 2 METAL PIPE. PROVIDE WATER TIGHT JOINTS. SUBMIT SHOP DRAWINGS TO ENGINEER

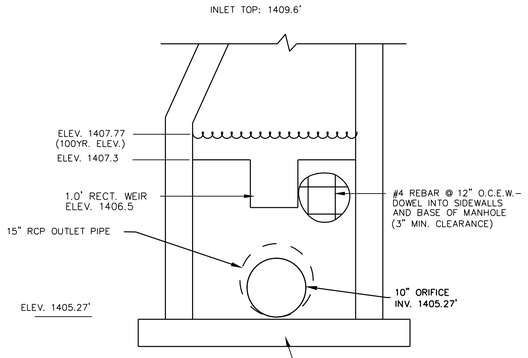


UNDERGROUND DETENTION LAYOUT
NOT TO SCALE



C SECTION
NOT TO SCALE

PLAN VIEW



A SECTION
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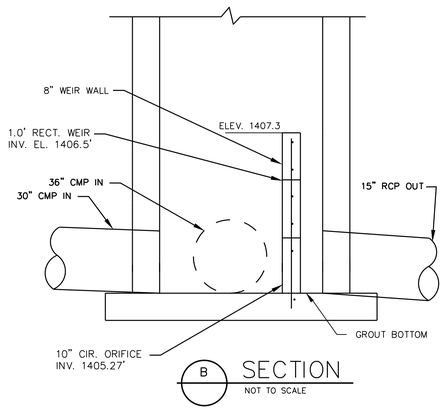
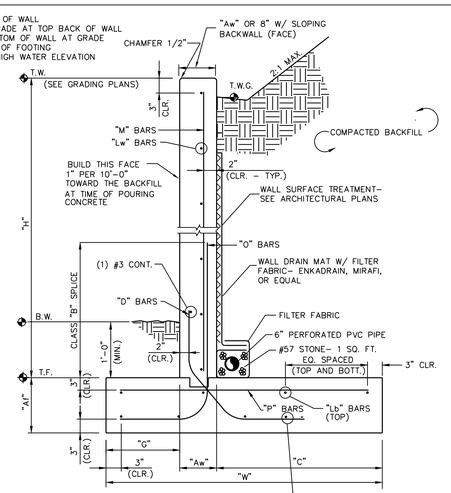


B SECTION
NOT TO SCALE

LEGEND
T.W. = TOP OF WALL
T.W.G. = GRADE AT TOP BACK OF WALL
B.W. = BOTTOM OF WALL AT GRADE
T.F. = TOP OF FOOTING
H.W.E. = HIGH WATER ELEVATION



SECTIONS – RET. WALL W/SLOPING BACKFILL
NOT TO SCALE

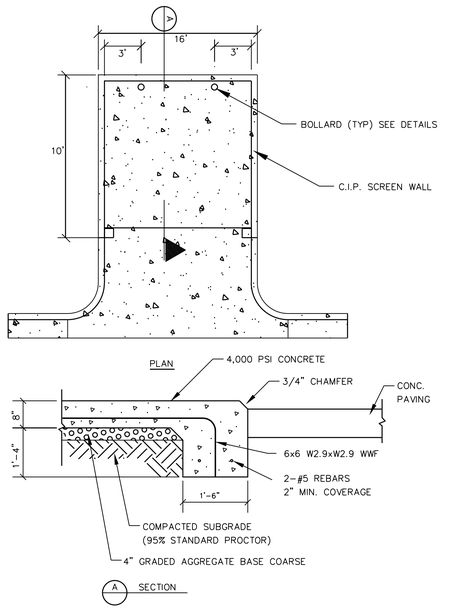
NOTES: THIS WALL APPLICATION IS FOR SLOPING BACKFILL MINIMUM REQUIRED TOE BEARING PRESSURE = 3,000 PSF.

PROVIDE CHAMFERED VERTICAL JOINTS @ 15' O.C.

CANTILEVER RETAINING WALL SCHEDULE (SLOPING BACKFILL)

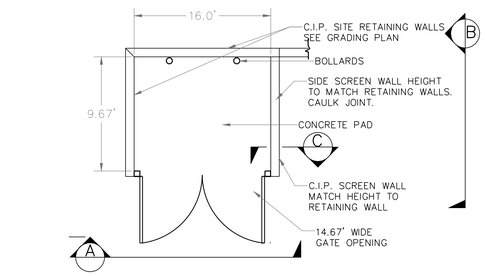
"H"	"Aw"	"C"	"G"	"W"	"Af"	"O" (DWLS)	"D" (BARS)	"Lb" TOP/BOT. (BARS)	"P" (BARS)	"M" (BARS)	"Lw" (BARS)
3'	8"	1'-6"	0'-5"	2'-7"	12"	#4 @ 18	#4 @ 18	4 – #4/3 – #4	#4 @ 18	#4 @ 18	#4 @ 12
4'	8"	2'-2"	0'-5"	3'-3"	12"	#4 @ 18	#4 @ 18	4 – #4/3 – #4	#4 @ 18	#4 @ 18	#4 @ 12
5'	8"	3'-0"	0'-7"	4'-3"	12"	#4 @ 18	#4 @ 18	4 – #4/3 – #4	#4 @ 18	#4 @ 18	#4 @ 12
6'	8"	3'-9"	0'-10"	5'-3"	12"	#4 @ 16	#4 @ 16	4 – #4/3 – #4	#4 @ 16	#4 @ 16	#4 @ 12
7'	8"	4'-9"	1'-4"	6'-9"	12"	#5 @ 18	#4 @ 18	4 – #4/3 – #4	#5 @ 18	#5 @ 18	#4 @ 12
8'	12"	5'-0"	1'-6"	7'-6"	12"	#5 @ 15	#4 @ 15	4 – #4/3 – #4	#5 @ 15	#5 @ 15	#5 @ 12
9'	12"	6'-0"	1'-6"	8'-6"	12"	#5 @ 12	#4 @ 12	5 – #4/3 – #4	#5 @ 12	#5 @ 12	#5 @ 12
10'	12"	7'-0"	1'-6"	9'-6"	12"	#6 @ 12	#4 @ 12	5 – #4/3 – #4	#5 @ 12	#6 @ 12	#5 @ 12
11'	13"	7'-8"	2'-3"	11'-0"	13"	#6 @ 9	#4 @ 9	5 – #4/4 – #4	#6 @ 9	#4 @ 9	#5 @ 12
12'	14"	8'-5"	2'-5"	12'-0"	14"	#6 @ 8	#4 @ 8	6 – #4/4 – #4	#6 @ 8	#5 @ 8	#5 @ 12

FILE: W–007A.DWG	DWN: MAW	CHK: DB	DATE: 10/01/00

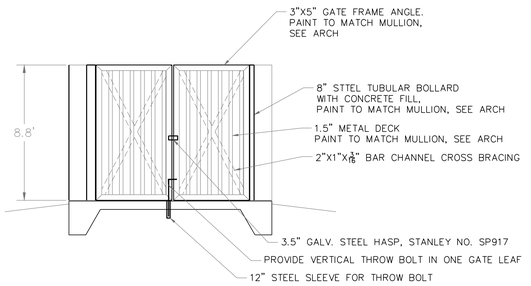


DUMPSTER PAD DETAIL
NOT TO SCALE

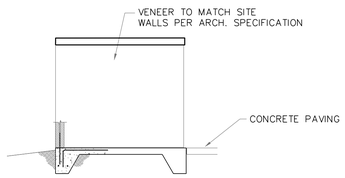
FILE: DU–02.DWG	DWN: BKB	CHK: GLD	DATE: 10/4/97



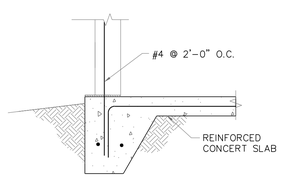
PLAN
DUMPSTER SCREEN
SCALE: NTS



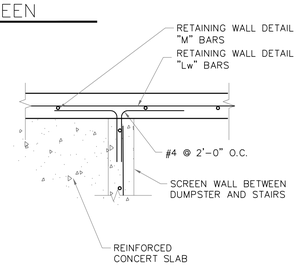
A FRONT ELEVATION
DUMPSTER SCREEN
SCALE: NTS



B SIDE ELEVATION
DUMPSTER SCREEN
SCALE: NTS



C DETAIL
DUMPSTER SCREEN WALL
SCALE: NTS



DETAIL CONNECTION
TO RETAINING WALL
SCALE: NTS

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033765 PROFESSIONAL 4-19-11 ENGINEER MATTHEW KURT BROWNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NO.
C6.05

PLOT DATE:
TEMPLATE VERSION

NOTES

1. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: REMOVAL OF ASPHALT PAVING, EXISTING TREES, POWER LINES, GAS MAINS, WATER LINES, FIRE HYDRANTS, EXISTING SEPTIC TANKS AND DRAIN FIELDS, STORM PIPING, DRAINAGE STRUCTURES, FOUNDATIONS, STRUCTURES, SIDEWALKS, STRIPING, CURB AND GUTTER, LIGHT POLES, AND POWER POLES
2. COORDINATE WITH REMAINDER OF 95% PRICING PACKAGE PRIOR TO START OF CONSTRUCTION
3. EBERLY & ASSOCIATES DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE EXISTING UTILITY INFORMATION SHOWN IS CORRECT, ACCURATE OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE FIELD LOCATION AND PROTECTION OF ALL OVERHEAD AND SUBSURFACE LINES AND FACILITIES WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE EXCAVATION, DEMOLITION OR UTILITY WORK. FURTHER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION OF THE GAS LINE WITH THE ARCHITECT, INFORMATION DEPICTED ON THE PLAN IS FOR INFORMATIONAL PURPOSES MEP ENGINEER AND THE APPROPRIATE UTILITY COMPANY.

PAVEMENT/SIDEWALK REMOVAL

CALL 811
FREE THROUGHOUT THE U.S.A.
THREE WORKING DAYS BEFORE YOU DIG.
811 Know what's below. Call before you dig.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL ENGINEER 1-19-11 MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
DEMOLITION PLAN

SHEET NO.
CD.01

RPR# 10759

PLOT DATE: 01/8/2009 11:59:09 PM TEMPLATE VERSION: 2.1.0.20090508

ITEM #

GENERAL SOIL EROSION & SEDMENTATION CONTROL NOTES

29 1. EROSION CONTROL MEASURES SHALL BE AS A MINIMUM IN CONFORMANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" BY THE GA. SOIL & WATER CONSERVATION COMMISSION.
2. ANY AND ALL SILT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGATATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
4. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
5. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
6. DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH SHALL BE ANCHORED.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
8. THE SITE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS DURING ALL PHASES OF CONSTRUCTION.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
10. NO ACTIVITIES SHALL BE CONDUCTED WITHIN THE STATE AND LOCAL JURISDICTION'S STREAM BUFFER.
11. PROVIDE EACH SECONDARY PERMITTEE A COPY OF THE EROSION CONTROL PLANS. EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN.
12. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
13. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:
   A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
   B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
   C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS
   D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.

ITEM # 23 14. LIMIT OF DISTURBANCE SHALL BE NO GREATER THAN 50 ACRES AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE EPD DISTRICT OFFICE.
15. MAINTAIN ALL EROSION CONTROL MEASURES THROUGH EVERY PHASE OF CONSTRUCTION.

ITEM # 31

INITIAL SOIL EROSION & SEDMENTATION CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE SITE INSPECTOR PRIOR TO LAND DISTURBING CONSTRUCTION.
2. PROVIDE AND MAINTAIN OFF-STREET PARKING ON-SITE.
3. STAGING AREAS, MATERIAL STORAGE, CONCRETE WASHOUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL NOT BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS. NO BURN AND BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
4. THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED AND MAINTAINED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. LAND DISTURBANCE SHALL NOT BE ALLOWED OUTSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS.
5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC RIGHT-OF-WAY.

ITEM # 26 6. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAY DURING ALL PHASES OF CONSTRUCTION. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
7. IMMEDIATELY AFTER THE PLACEMENT OF THE CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.
8. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED AS NECESSARY.
9. SILT BARRIERS SHALL BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
10. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. INSPECT AND REPAIR FENCE DAILY.
11. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN.
12. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
13. CLEARED TREES MAYBE UTILIZED AS BARRIER BRUSH SEDIMENT CONTROL.
14. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON PLANS AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED.
15. INSPECT SEDIEMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY.
16. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGATATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
17. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
18. DISTURBED AREAS LEFT IDLE FOR 14 DAYS, AND NOT TO FINAL GRADE, WILL BE STABILIZED WITH MULCH OR TEMPORARY VEGETATION (Ds1). DISTURBED AREAS LEFT MULCHED FOR 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION (Ds2). ALL AREAS BROUGHT TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION WITHIN 14 DAYS (Ds3).
19. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHALL BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
20. DURING UNSUITABLE GROWING SEASONS, MULCH SHALL BE USED AS A TEMPORARY COVER (Ds1). ON SLOPES THAT ARE 4:1 OR STEEPER, MULCH SHALL BE ANCHORED.

INTERMEDIATE SOIL EROSION & SEDMENTATION CONTROL NOTES

1. MAINTAIN INITIAL EROSION CONTROL MEASURES THROUGHOUT INTERMEDIATE PHASE.
2. CONTROL EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS TO AVOID DUMPING OR SLOUGHING INTO BUFFER AREAS.
3. DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
4. INSTALL EROSION CONTROL DEIVES IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSEBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE OWNER OR DESIGN PROFESSIONAL.
5. MAINTAIN AND FURNISH ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
6. TYPE "C" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT THE BARRIER.
7. INSTALL BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. REPLACE ANY DEFECTIVE MATERIALS IN THE BARRIER AND REMOVE DEBRIS AND SILT AT THE PREVIOUS LOCATION.
8. PLACE TYPE "C" SILT FENCE AT THE TOE OF ALL DIRT STOCKPILE AREAS AND SEED WITH TEMPORARY GRASSING.
9. INSTALL INLET SEDIMENT PROTECTION MEASURES ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED.
10. INSTALL STONE CHECK DAMS IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
11. APPLY VEGETATIVE COVER ON ALL DRAINAGE SWALES AS SOON AS FINAL GRADE IS ACHIEVED.
12. APPLY VEGETATIVE COVER ON ALL GRADED AREAS AS SOON AS FINAL GRADE IS ACHIEVED.
13. APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
14. STABILIZE ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS WITH TEMPORARY GRASSING.
15. CONSTRUCT TEMPORARY SEDIMENT BASINS AND DIVERSION DIKES AS SHOWN ON PLAN AFTER PRELIMINARY GRADING ACTIVITIES. MAINTAIN THE SEDIMENT POND UNTIL GRADING OPERATIONS ARE COMPLETE AND THE SITE IS PERMANENTLY STABILIZED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN.
16. INSPECT SEDIEMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY.

FINAL SOIL EROSION & SEDMENTATION CONTROL NOTES

1. MAINTAIN INITIAL AND INTERMEDIATE EROSION CONTROL MEASURES THROUGHOUT FINAL PHASE.
2. DO NOT ALLOW SEDIMENT TO BE WASHED INTO INLETS. REMOVE SEDIMENT FROM SEDIMENT TRAPS AND DISPOSE OF AND STABILIZE SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
3. REPLACE & REMOVE INLET SEDIMENT TRAPS WITH CURB FILTER INLET PROTECTION AFTER CURBING, GRADED AGGREGATE BASE AND PAVEMENT HAS BEEN INSTALLED.
4. MAINTAIN TEMPORARY SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES UNTIL THE SITE IS PERMANENTLY STABILIZED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE 1/3 DEPTH OF BASIN.
5. APPLY VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS OF ALL ROADWAY AND PARKING SHOULDERS.
6. INSPECT SEDIEMENT AND EROSION CONTROL MEASURES AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. INSTALL ADDITIONAL DEVICES AS NECESSARY.
7. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM OFF-SITE UPON FINAL STABILIZATION OF THE PROJECT AND CERTIFICATE OF OCCUPANCY. "FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.

ITEM # 51 **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABLIZED WITH MULCH OR TEMPORARY SEEDING**

NOTIFY THE DESIGN ENGINEER WHEN THE INITIAL BMP'S ARE IN PLACE. THE DESIGN ENGINEER MUST INSPECT THE BMP'S WITHIN SEVEN (7) DAYS AFTER THE INITIAL BMP INSTALLATION.

ITEM # 41 **ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL**

ITEM # 49 **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES**

ITEM # 50 **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE**

PLOT DATE:
TEMPLATE VERSION:

ITEM # 42 **NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A 404 PERMIT**

WASTE MATERIALS

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDAENT, WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACITCES ARE FOLLOWED WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORWATER DISCHARGE WILL BE CONTAINED ON SITE UNITL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTINDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACIILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKILIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE SHEET EC3.0 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

ITEM # 43 SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT. THE ES&PC PLAN MUST BE IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS DURING AND AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SALVENTS – ALL PRODUCTS WILL BE STORED IN TIGHLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

ITEM # 27 CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OF DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDLINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IF GEORGIIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS – NO BUILDING MATERIALS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

ITEM # 28

SPILL CONTROL PRACTICES-PRACTICES USED TO REDUCE POLLUTANTS

1. DISCHARGE OF NEW OR USED OIL, FUEL, LUBRICANTS, ETC. IS PROHIBITED. UTILIZE CONTAINMENT SYSTEMS. RECYCLED USED OILS, CONTAMINATED FUELS AND LUBRICANTS, ILLEGAL DISCHARGES ARE SUBJECT TO FINES AND PENALTIES.
2. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT SHALL BE CLEARLY LABELED AND STORED IN A CLEARLY IDENTIFIED AREA. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
3. FERTILIZERS USED SHALL BE APPLIED IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. ANY FERTILIZERS THAT ARE TO BE STORED ON-SITE, SHALL BE STORED IN A PROTECTED SECURABLE ENCLOSURE. THE CONTENTS OF ANY PARTIALLY USED BAGS AT FERTILIZERS SHALL BE TRANSFERRED TO A CLEARLY TO A CLEARLY LABELED, SEAL ABLE PLASTIC CONTAINER TO AVOID SPILLS.
4. CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT, DISCHARGE AND DRUM WASH ONLY AT THE IDENTIFIED EQUIPMENT MAINTENANCE AREAS. MAINTENANCE AREAS SHALL BE EQUIPPED WITH A DISCHARGE CONTAINMENT AREA (I.E. EARTH BERMS SURROUNDING AREA). THE CONTAINMENT AREA SHALL BE CLEANED UP AND REMOVED FROM THE SITE UPON COMPLETION OF CONCRETE INSTALLATION WORK.
5. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
6. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, RESPIRATORS, CAT LITER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
7. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
8. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR THE APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
9. THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES SHALL ALSO BE INCLUDED.

LENGTH OF RIP-RAP AREA SHALL BE SIX TIMES THE DIAMETER OF THE STORM DRAIN.

PIPE SIZE	RIP-RAP SIZE	DRAINAGE EASEMENT WIDTH
OVER 72"	150-LB.	25 FEET
54*-66"	100-LB.	25 FEET
48 -42"	50-LB.	20 FEET
36"- 30"	40-LB.	36"-20 FEET, 30"-15 FEET
24"- 18"	20-LB.	15 FEET

MULTIPLE PIPES- WIDTH PLUS 10'

ADDITIONAL SIZES AS FOLLOWS: CLASS 1 D.O.T. STANDARD 250-LB
ARMOR TYPE 2,000-LB

OR PER APPENDIX C OF MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

GRADING RECORD

A GRADING RECORD MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF CONSTRUCTION. GRADING REFERENCED IN GAR 100001 PART IV.D.3.a.(1).(a) AND (b).

GRADING ACTIVITIES	DESCRIPTION OF ACTIVITY	START	STOP	STABILIZATION ACTIVITIES	DESCRIPTION OF ACTIVITY	START	STOP
GRADING				STABILIZATION MEASURES			

N.P.D.E.S. PERMIT REQUIREMENTS FOR PART IV SECTION D

ITEM # 30 NARRATIVE:

THE PROPOSED PROJECT IS LOCATED IN DISTRICT 4, LANDLOT 442, OF THE CITY OF DAWSONVILLE, DAWSON COUNTY, GEORGIA. THE SITE IS MORE PARTICULARLY LOCATED WEST OF THE INTERSECTION OF HIGHWAY 9 AND HIGHWAY 53. THE PROPOSED CONSTRUCTION CONSISTS OF RENOVATION AND EXPANSION OF THE EXISTING LANIER TECHNICAL COLLEGE BUILDING. THE PROPOSED CONSTRUCTION WILL ALSO INCLUDE PARKING LOT MODIFICATION, LANDSCAPING, AND UTILITIES TO SERVE THE BUILDING AS WELL AS A STORM A CONVEYANCE SYSTEM.

THIS PROJECT WILL UNDERGO CLEARING AND GRUBBING OPERATIONS WITH THE INITIAL BMP'S IN PLACE. THESE INITIAL BMP'S WILL INCLUDE THE INSTALLATION OF THE SILT FENCE, THE CONSTRUCTION ENTRANCES AND STONE CHEKDAMS. MASS GRADING OPERATIONS WILL BEGIN, ONCE THE THE CLEARING AND GRUBBING IS COMPLETE. THE BMP'S FOR THIS PHASE WILL INCLUDE THE INSTALLATION OF, TEMPORARY SEDIMENT BASINS, TEMPORARY DOWNDRAINS, DIVERSION DITCHES, INLET SEDIMENT TRAPS, EROSION CONTROL MATTING, GRASSING, AND MAINTAINING THE INITIAL BMP'S. PERMANENT STABILIZATION WILL INCLUDE IMPERVIOUS AREAS SUCH AS THE BUILDING AND ASPHALT PAVED ACCESS ROADS, AND ASPHALT PAVED PARKING LOTS. PERVIOUS AREAS WILL BE SEEDED WITH PERMANENT GRASSING. STORM DRAINAGE SYSTEMS WILL BE INSTALLED TO CONTROL STORMWATER RUN-OFF AFTER CONSTRUCTION IS COMPLETE. THESE SYSTEMS WILL INCLUDE STORMWATER INLETS, STORM PIPE AND RIP-RAP FOR OUTLET PROTECTION.

THE SITE IS CURRENTLY MOSTLY DEVELOPED AND HAS TWO STRUCTURES ON THE PROPERTY. THE SITE ALSO HAS SLOPES RANGING FROM 2% TO 40% AND DRAINS INTO EXISTING STROM LINES. THE ADJACENT AREAS INCLUDE HIGHWAY 9 TO THE NORTH. DAWSON MIDDLE SCHOOL IS LOCATED TO THE SOUTH AND WEST OF THIS SITE.

POSSIBLE AFFECTS OF THIS PROJECT WILL BE A DISRUPTION IN TRAFFIC FLOW ON HIGHWAY 9 WHICH SERVES THE SITE

ITEM # 17 RECEIVING WATERS:

ITEM # 18 19 UNNAMED TRIBUTARY OF FLAT CREEK. THIS PROPERTY DOES NOT LIE WITHININ THE FLOOD HAZARD ZONE, AS PER THE DAWSON COUNTY F.I.R.M. COMMUNITY PANEL NO.13085C0111B DATED: SEPT. 26TH, 2008. THE STORM WATER DOES NOT DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR WITH IN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT. THEREFOR THERE IS NO TMDL IMPLEMENTATION PLAN THAT WOULD NEED TO BE ADDRESSES FOR THIS SPECIFIC SITE.

ITEM # 33 SEDIMENTATION BASIN STATEMENT:

FIVE EXCAVATED INLET SEDIMENT TRAPS WILL BE USED ON THIS PROJECT TO MINIMIZE THE EROSION AND TO CONTROL SILT. BASED ON THE SITE TOPOGRAPHY, SOILS AND NATURE OF CONSTRUCTION OF THIS PARTICULAR SITE, THESE EXCAVATED SEDIMENT BASINS ARE REQUIRED ALONG WITH THE USE OF TYPE 'C' SILT FENCE AND OTHER MEASURES AS SHOWN ON THE PLAN. UPON COMPLETION THE ENTIRE SITE WILL BE SEEDED PERMANENTLY AND LANDSCAPED TO STABILIZE THE SOIL.

ITEM # 34 STORM WATER MANAGEMENT STATEMENT:

RAINFALL ACROSS IMPERVIOUS AREAS WILL PASS THROUGH SEDIMENTATION TRAPS, TO BE TREATED BY FILTRATION AND DISCHARGED INTO EXISTING STORMWATER CONVEYANCE SYSTEM. LANDSCAPED AREAS, VEGETATED STRIPS AND ASSOCIATED BUFFER WILL FURTHER FILTER STORMWATER AND PROVIDE INFILTRATION AND TREATMENT.

STAGING OF EARTHMOVING ACTIVITIES:

THIS SCHEDULE IS REPRESENTATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MOST APPROPRIATE TIME SCHEDULE FOR CONSTRUCTION ACTIVITIES AND TO MAKE CERTAIN THAT THE CONSTRUCTION ACTIVITIES EFFECTIVELY CONTROL EROSION AND SEDIMENT ON-SITE. STRIPS AND NATURAL DEPRESSIONS WILL FURTHER FILTER WATER AND PROVIDE OPPORTUNITIES FOR INFILTRATION.

ITEM # 32

ACTIVITIES SCHEDULE:

CONSTRUCTION SCHEDULE

ACTIVITY	START DATE: MAY. 15, 2011 COMPLETE DATE: MAY 15, 2012 WEEKS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
EROSION CONTROL IMPLEMENTATION	
CLEARING & GRUBBING	
MASS GRADING	
TEMP GRASSING (LIMIT EXPOSURE TO 5 DAYS)	
UTILITY INSTALLATION	
ROAD CONSTRUCTION	
BUILDING CONSTRUCTION	
FINISH GRADING	
FINAL STABILIZATION	
LANDSCAPING	
*EROSION CONTROL MAINTENANCE	

*MAINTAIN THROUGH OUT LIFE OF PROJECT

1. WEEK ONE TO WEEK TWO –UPON AWARD OF CONTRACT AND PRIOR TO GENERAL EARTHMOVING ACTIVITIES, THE CONTRACTOR SHALL INSTALL SILT FENCE, RETROFITTING FOR OUTLET CONTROL STRUCTURES, CONSTRUCTION ENTRANCE AND ANY OTHER PERIMETER CONTROLS NEEDED AS DETERMINED IN THE FIELD.
2. WEEK THREE – PERFORM CLEARING AND GRUBBING ACTIVITIES FOR TEMPORARY SEDIMENT BASINS OR THE DETENTION BASINS. CONSTRUCT THE OUTFALL PIPE FOR THE DETENTION BASINS AND INSTALL THE RIPRAP APRON. CONSTRUCT THE DETENTION BASINS AND INSTALL THE RETROFIT AS SHOWN ON THE PLAN.
3. WEEK FOUR TO FIVE – PERFORM CLEARING AND GRUBBING ACTIVITIES FOR THE REMAINING AREAS OF CONSTRUCTION. SALVAGE ANY TIMBER POSSIBLE. MAKE CERTAIN THAT THE EROSION CONTROLS ARE IN PLACE AND FUNCTIONAL AND THEN STRIP TOPSOIL FROM CONSTRUCTION AREAS, STOCKPILE ON SITE AND SURROUND THE STOCKPILE WITH SILT FENCE AND ROCK FILTER OUTLETS.
4. WEEK FIVE TO WEEK TWENTY – PERFORM ROUGH GRADING OPERATIONS AND BEGIN STORM SEWER AND OTHER UNDERGROUND UTILITY CONSTRUCTION. INSTALL RIPRAP APRONS AT ALL PIPE OUTFALLS AND INSTALL TEMPORARY SEDIMENT TRAPS AT ALL CATCH BASINS AS SOON AS THEY ARE CONSTRUCTED.
5. WEEK TWENTY TO WEEK FIFTY TWO – INSTALL CURB AND GUTTER AND INSTALL ROAD AND PARKING SUBBASE AS SOON AS POSSIBLE. PERMANENTLY STABILIZE ANY AREAS THAT ARE AT FINAL GRADE AND PERFORM TEMPORARY STABILIZATION ON ANY AREAS THAT CANNOT BE PERMANENTLY STABILIZED. INSTALL THE SECOND TIRE CLEANING FACILITY.
6. WEEK NINETEEN TO WEEK FIFTY TWO – BUILDING CONSTRUCTION.
7. WEEK FIFTY TO WEEK FIFTY TWO – PERFORM FINAL STABILIZATION ON ALL AREAS TO BECOME TURF WITH TOPSOIL, SEED AND MULCH. INSTALL LANDSCAPING AS SHOWN ON THE PLAN.
8. ALL WEEKS – AFTER EACH STORM EVENT, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED DURING THE CLEANING OPERATIONS SHALL BE INCORPORATED INTO THE EARTHWORK AS FILL OR WASTED ON THE SITE AS DIRECTED BY THE CONTRACTING OFFICER REPRESENTATIVE.
9. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, REMOVE ALL REMAINING TEMPORARY CONTROLS. ALL AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY CONTROLS MUST BE STABILIZED PRIOR TO PROJECT COMPLETION.

RUNOFF ESTIMATION INFORMATION:

ITEM # 38

BASIN NO.	PRE-DEV (100-YR) CFS	POST-DEV (100-YR) CFS
1	20.85	19.77

ITEM # 5 **TOTAL SITE AREA = 2.05 ACRES**
DISTURBED AREA = 2.21 ACRES

N.P.D.E.S. NOTES FROM PERMIT NO. GAR 100001

ALL PARTIES INVOLVED WITH THE COMPLETION OF THE PROPOSED PROJECT SHALL READ, FAMILIARIZE THEMSELVES AND COMPLY WITH GENERAL PERMIT NO. GAR 100001.

THE PLAN SHALL INCLUDE, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOUND CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND RESULTANT SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED AND O.C.G.A. 12-7-6, AS WELL AS THE FOLLOWING:

PART I. COVERAGE UNDER THIS PERMIT
C. ELIGIBILITY.
1. CONSTRUCTION ACTIVITIES. THIS PERMIT AUTHORIZES, SUBJECT TO THE CONDITIONS OF THIS PERMIT:
   A. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING ON OR BEFORE, AND CONTINUING AFTER, THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES) EXCEPT FOR DISCHARGES IDENTIFIED UNDER PART I.C.3.; AND
   B. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE OCCURRING AFTER THE EFFECTIVE DATE OF THIS PERMIT, (HENCEFORTH REFERRED TO AS EXISTING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES).
   C. COVERAGE UNDER THIS PERMIT IS NOT REQUIRED FOR DISCHARGES OF STORM WATER ASSOCIATED WITH MINOR LAND DISTURBING ACTIVITIES (SUCH AS HOME GARDENS AND INDIVIDUAL HOME LANDSCAPING, REPAIRS, MAINTENANCE WORK, FENCES AND OTHER RELATED ACTIVITIES WHICH RESULT IN MINOR SOIL EROSION) CONDUCTED OUTSIDE OF THE 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS REQUIRING A BUFFER AND OUTSIDE OF THE 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS CLASSIFIED AS 'TROUT STREAMS' REQUIRING A BUFFER ON INDIVIDUAL RESIDENTIAL LOTS SOLD TO HOMEOWNERS WHERE ALL PLANNED CONSTRUCTION ACTIVITIES ON THAT LOT HAVE BEEN COMPLETED AND HAVE UNDERGONE FINAL STABILIZATION.
2. MIXED STORM WATER DISCHARGES. THIS PERMIT MAY ONLY AUTHORIZE A STORM WATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES THAT IS MIXED WITH A STORM WATER DISCHARGE FROM AN INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION WHERE:
   A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY;
   B. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT; AND
   C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.
3. LIMITATIONS ON COVERAGE. THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:
   A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION;
   B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORM WATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2. OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7. (NON-STORM WATER DISCHARGES) OF THIS PERMIT;
   C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES; AND
   D. STORM WATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.
4. COMPLIANCE WITH WATER QUALITY STANDARDS. NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-.03

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ITEM # 4 **OWNER/DEVELOPER**
GSFIC
270 WASHINGTON ST.
SECOND FLOOR
ATLANTA, GEORGIA 30334
404-463-5738

ENGINEER
MATTHEW BRUNE
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452-7849

ITEM # 3 **24 HOUR CONTACT**
JOEL HEATON
404-463-5758

PART III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, PERMIT VIOLATIONS AND OTHER LIMITATIONS
A. PROHIBITION ON NON-STORM WATER DISCHARGES.
   1. EXCEPT AS PROVIDED IN PART I.C.2. AND III.A.2., ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER.
   2. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED BY THIS PERMIT PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7.: DISCHARGES FROM FIRE FIGHTING ACTIVITIES; FIRE HYDRANT FLUSHING; POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING; IRRIGATION DRAINAGE; AIR CONDITIONING CONDENSATE; SPRINGS; UNCONTAMINATED GROUND WATER; AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.
B. RELEASES IN EXCESS OF REPORTABLE QUANTITIES.
   1. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED. THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. §§12-14-2, ET SEQ.), 40 CFR 117 AND 40 CFR 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.
   2. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.
C. DISCHARGES INTO, OR WITHIN ONE MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

D. MANAGEMENT PRACTICES AND PERMIT VIOLATIONS.
   1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THIS PERMIT, ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF GEORGIA. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NONCOMPLIANCE WITH PART III.D.3. AND PART III.D.4.
   2. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS. BMP MAINTENANCE AS A RESULT OF THE PERMITTEE'S ROUTINE INSPECTIONS SHALL NOT BE CONSIDERED A VIOLATION FOR THE PURPOSES OF THIS PARAGRAPH. IF DURING THE COURSE OF THE PERMITTEES ROUTINE INSPECTION BMP FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO EPD IN ACCORDANCE WITH PART V.A.2. OF THIS PERMIT.
   3. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY-FIVE (25) NEPHELOMETRIC TURBIDITY UNITS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.I. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED.
   4. WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B APPLICABLE TO THE CONSTRUCTION SITE. AS SET FORTH THEREIN, THE NEPHELOMETRIC TURBIDITY UNIT (NTU) VALUE SHALL BE SELECTED FROM APPENDIX B BASED UPON THE SIZE OF THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA AND WHETHER THE RECEIVING WATER(S) SUPPORTS WARM WATER FISHERIES OR IS A TROUT STREAM AS INDICATED IN THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6 AT WWW.GAEPD.ORG.

ITEM # 48 N.P.D.E.S. N.T.U. APPENDIX B VALUES

SIZE OF SITE: 1.00-10 ACRES
SURFACE WATER DRAINAGE AREA: 0-4.99 SQUARE MILES
TYPE OF RECEIVING WATERS: WARM WATER
NTU VALUE: 75

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION ____________________

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION

CSWCG LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

ITEM # 37

N.P.D.E.S. OWNERS ACKNOWLEDGEMENT SIGNATURE

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Technical College System of Georgia
OWNER/OPERATOR DATE
BY:
Robert P. Alden, AIA, LEEDS AP
Executive Director
Facilities Management

February 3, 2010

DESIGN PROFESSIONAL'S CERTIFICATION

ITEM # 36 1. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OR THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

ITEM # 35 2. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

ITEM # 40 3. I UNDERSTAND THAT AS THE PLAN PREPARER, RETAINED BY THE PRIMARY PERMITTEE, I MUST VISIT THE SITE WITHIN SEVEN DAYS ONCE THE CONSTRUCTION ACTIVITIES COMMENCE, TO VERIFY THAT ALL BMP'S ARE INSTALLED ACCORDING TO THE APPROVED PLAN.

ITEM # 2 MATTHEW K. BRUNE
LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER 000054562
ISSUED: 06/24/2008
EXPIRES: 06/24/2011

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

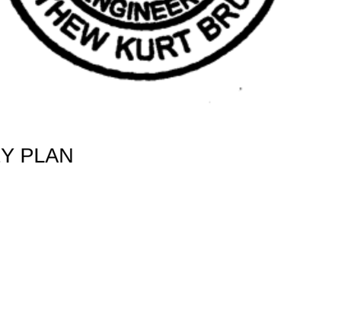
STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345



KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
ES&PC NOTES

SHEET NO.
CE.01

ITEM # 39

PART IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

i. EXCEPT AS PROVIDED IN PART IV.(III). BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:
   1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS,
   2. STREAM CROSSINGS FOR WATER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,
   3. STREAM CROSSINGS FOR SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,
   4. BUFFER CROSSING FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND
   5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) FUNCTIONAL NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION;

ii. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS 'TROUT STREAMS' EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS 'TROUT STREAMS' WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED:
   1. PUBLIC DRINKING WATER SYSTEM RESERVOIRS,
   2. STREAM CROSSINGS FOR WATER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,
   3. STREAM CROSSINGS FOR SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER,
   4. BUFFER CROSSING FOR FENCES, PROVIDED THAT THE CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND
   5. STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT: (A) THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET, (B) UTILITY LINES ARE ROUTED AND CONSTRUCTED SO AS TO MINIMIZE THE NUMBER OF STREAM CROSSINGS AND DISTURBANCES TO THE BUFFER, (C) ONLY TREES AND TREE DEBRIS ARE REMOVED FROM WITHIN THE BUFFER RESULTING IN ONLY MINOR SOIL EROSION (I.E., DISTURBANCE TO UNDERLYING VEGETATION IS MINIMIZED), AND (D) FUNCTIONAL NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER. THE PLAN SHALL INCLUDE A DESCRIPTION OF THE STREAM CROSSINGS WITH DETAILS OF THE BUFFER DISTURBANCE INCLUDING AREA AND LENGTH OF BUFFER DISTURBANCE, ESTIMATED LENGTH OF TIME OF BUFFER DISTURBANCE, AND JUSTIFICATION; AND

iii. EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV.(I). AND (II)., NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LANDDISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. AFTER THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.

THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN SHALL IDENTIFY ALL POTENTIAL SOURCES OF POLLUTION WHICH MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE. IN ADDITION, THE PLAN SHALL DESCRIBE AND THE APPLICABLE PERMITTEE SHALL ENSURE THE IMPLEMENTATION OF PRACTICES WHICH WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AT THE SITE AND TO ASSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT. THE APPLICABLE PERMITTEE MUST IMPLEMENT AND MAINTAIN THE PROVISIONS OF THE PLAN REQUIRED UNDER THIS PART AS A CONDITION OF THIS PERMIT.

EXCEPT AS PROVIDED IN PART IV.A.2., A SINGLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN MUST BE PREPARED BY THE PRIMARY PERMITTEE FOR THE STAND ALONE CONSTRUCTION PROJECT.

A. DEADLINES FOR PLAN PREPARATION AND COMPLIANCE
   5. FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
   6. FOR STORM- OR EMERGENCY-RELATED REPAIR WORK, THE PERMITTEE SHALL IMPLEMENT APPROPRIATE BMPS AND CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER. IF THE STORM- OR EMERGENCY-RELATED REPAIR WORK WILL NOT BE COMPLETED WITHIN SIXTY (60) DAYS OF COMMENCEMENT OF CONSTRUCTION ACTIVITY, A SINGLE COPY OF THE PLAN SHALL BE SUBMITTED TO EPD AND THE PERMITTEE SHALL COMPLY WITH ALL REQUIREMENTS OF THIS PERMIT ON THE SIXTY-FIRST (61ST) DAY.

C. KEEPING PLANS CURRENT. THE PRIMARY PERMITTEE(S) SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT (I.E., THOSE BMPS WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

1. WASTE DISPOSAL.
LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS. THE PLAN SHOULD INCLUDE SECONDARY CONTAINMENT AROUND LIQUID WASTE COLLECTION AREAS TO FURTHER MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
2. OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR CONSTRUCTION ACTIVITY.
3. ALL PERMITTEES SHALL ENSURE AND DEMONSTRATE THAT THEIR PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
4. THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS AS APPROPRIATE.
5. THE PLAN SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

ITEM # 44

D.4. INSPECTIONS.
A. PERMITTEE REQUIREMENTS.
   1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
   2. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
   3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
   4. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
   5. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

D.5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

D.6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
   1. A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
   2. A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
   3. WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
   4. ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

ITEM # 47

B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
   1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
   2. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
   3. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
   4. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
   5. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C. SAMPLING POINTS.
   1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
      a. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
      b. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
      c. IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
      d. CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
      e. THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
      f. THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
      g. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
      h. ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

ITEM # 45

D. SAMPLING FREQUENCY.
   1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
      a. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
      b. THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
   2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
   3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
      a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
      b. IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
      c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND
      d. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

      *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

D.7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

ITEM # 45

E. REPORTING.
E.1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
E.2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
E.3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
   A. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
   B. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
   C. THE DATE(S) ANALYSES WERE PERFORMED;
   D. THE TIME(S) ANALYSES WERE INITIATED;
   E. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
   F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
   G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
   H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

ITEM # 46

F. RETENTION OF RECORDS.
F.1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT ISSUBMITTED IN ACCORDANCE WITH PART VI:
   A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
   B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
   C. THE DESIGN PROFESSIONAL S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
   D. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
   E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
   F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
   G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.
F.2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PART V. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY.
   1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.
   2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.
   3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-5-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE. CONSTRUCTION SITES THAT HAVE NOT OBTAINED COVERAGE UNDER THE PERMIT BY THE PERMIT EXPIRATION DATE CANNOT BECOME AUTHORIZED TO DISCHARGE UNDER THE CONTINUED PERMIT.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR; A STATE OR LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT AN RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS OR OTHER INFORMATION EITHER SUBMITTED TO THE EPD OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES BE MAINTAINED BY THE PERMITTEE, SHALL BE SIGNED AS FOLLOWS:
   1. ALL NOTICES OF INTENT SHALL BE SIGNED AS FOLLOWS:
      a. FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION, OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY- OR DECISION MAKING FUNCTIONS FOR THE CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND DIRECTING OTHER COMPREHENSIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS; AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES;
      b. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY; OR
      c. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL.
   2. ALL REPORTS, CERTIFICATION STATEMENTS, OR OTHER REPORTS REQUIRED BY THE PERMIT AND OTHER INFORMATION REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A PERSON IS A DULY AUTHORIZED REPRESENTATIVE ONLY IF:
      a. THE AUTHORIZATION IS MADE IN WRITING BY A PERSON DESCRIBED ABOVE AND SUBMITTED TO THE EPD;
      b. THE AUTHORIZATION SPECIFIES EITHER AN INDIVIDUAL OR A POSITION HAVING RESPONSIBILITY FOR THE OVERALL OPERATION OF THE REGULATED FACILITY OR ACTIVITY, SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION);
      c. CHANGES TO AUTHORIZATION. IF AN AUTHORIZATION UNDER PART II.B. IS NO LONGER ACCURATE BECAUSE A DIFFERENT OPERATOR HAS RESPONSIBILITY FOR THE OVERALL OPERATION OF THE CONSTRUCTION SITE, A NEW NOTICE OF INTENT SATISFYING THE REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY REPORTS, INFORMATION, OR APPLICATIONS TO BE SIGNED BY AN AUTHORIZED REPRESENTATIVE; AND

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

I. PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT, NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

J. SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT SHALL NOT BE AFFECTED THEREBY.

K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT. NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS. FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT. NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

L. PROPER OPERATION AND MAINTENANCE. THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA, EPD OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR, IN THE CASE OF A CONSTRUCTION SITE WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM, AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL OPERATOR OF THE SEPARATE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:
   1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
   2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
   3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

N. PERMIT ACTIONS. THIS PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES.

CODE	PRACTICE	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM		A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH, OR AREA OF CONCENTRATED FLOW.
Ch	CHANNEL STABLIZATION		IMPROVING, CONSTRUCTING, OR STABLIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.
Co	CONSTRUCTION EXIT	Co	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION	CR	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.
Dc	STREAM DIVERSION CHANNEL	Dc	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANANT STRUCTURE IS BEING CONSTRUCTED.
Di	DIVERSION		AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANANT STRUCTURE.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	Dn1 (LABEL)	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. TEMPORARY AND INEXPENSIVE.
Dn2	PERMANANT DOWNDRAIN STRUCTURE	Dn2 (LABEL)	A PAVED CHUTE, SECTIONED CONDUIT, PIPE, OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr2	FILTER RING		A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ga2	GABION		ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.
Gr	GRADE STABILIZATION STRUCTURE	Gr	PERMANANT STRUCTURES INSTALLED TO PROTECT NATURAL OR ARTIFICIAL CHANNELS OR WATERWAYS WHERE OTHERWISE THE SLOPE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.
Lv	LEVEL SPREADER		A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATERS INTO LESS EROSIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM		A PERMANANT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.
Re	RETAINING WALL	Re (LABEL)	A WALL INSTALLED TO STABILIZE CUT AND FILL SLOPES WHERE MAXIMUM PERMISSIBLE SLOPES ARE NOT OBTAINABLE. EACH SITUATION WILL REQUIRE SPECIAL DESIGN.
Rt	RETROFITTING	Dc (LABEL)	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANANT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER	Sd1 (INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, GRAVEL OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Sd2	SEDIMENT TRAP TEMPORARY		AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN INLET. THE EXCAVATED AREA WILL BE FILLED AND STABLIZED ON COMPLETION OF CONSTRUCTION ACTIVITES.
Sd3	SEDIMENT BASIN TEMPORARY		A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT. THE BASIN IS USUALLY TEMPORARY BUT MAY BE DESIGNED AS A PERMANANT POND OR STORMWATER RETENTION DEVICE.
Sr	TEMPORARY STREAM CROSSING	Sr (LABEL)	A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATERCOURSE FROM DRAINAGE BY CROSSING CONSTRUCTION EQUIPMENT.
St	STORMDRAIN INLET/OUTLET PROTECTION	St1	A PAVED OR SHORT SECTION OR RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHING	Su	A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tp	TOPSOILING	Tp	THE PRACTICE OF STRIPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED CONSTRUCTION ACTIVITES.
Wt	VEGETATED WATERWAY/ STORMWATER CONVERYANCE CHANNEL		PAVED OR VEGETATIVE WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES, OR SIMILAR STRUCTURES.
VEGETATIVE MEASURES			
Bf	BUFFER ZONE	Bf	A STRIP OF UNDISTURBED, ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES AND COASTAL WATERS.
Cs	COASTAL DUNE STABLIZATION	Cs	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RENOURISHED.
Ds1	DISTURBED AREA STABLIZATION (MULCHING ONLY)	Ds1	APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.
Ds2	DISTURBED AREA STABLIZATION (TEMPORARY SEEDING)	Ds2	THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.
Ds3	DISTURBED AREA STABLIZATION (PERMANANT SEEDING)	Ds3	THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.
Ds4	DISTURBED AREA STABLIZATION (WITH SODDING)	Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.
Mb	EROSION CONTROL MATTING	Mb	A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH PERMANENT VEGETATION ON STEEP SLOPES, CHANNELS, OR SHORELINES.
Pm	POLYACRYLAMIDE (PAM)	Pm	THE LAND APPLICATION OF PRODUCT CONTAINING ANIONIC POLYACRYLAMIDE (PAM) AS TEMPORARY SOIL BINDING AGENTS TO REDUCE SOIL EROSION.
Sb	STREAMBANK STABILIZATION	Sb	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.
Tb	TACKIFIERS AND BINDERS	Tb	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.

EBERLY & ASSOCIATES IS NOT RESPONSIBLE FOR N.P.D.E.S. WATER QUALITY MONITORING, REPORTING OF MONITORING RESULTS TO THE E.P.D., OR RETENTION OF MONITORING & INSPECTION RECORDS. RETAIN THE SERVICES OF QUALIFIED N.P.D.E.S. WATER QUALITY MONITORING PERSONNEL.

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033165 PROFESSIONAL ENGINEER MATTHEW KURT BRUNE 4-19-11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
ES&PC NOTES

SHEET NO.
CE.02

TEMPLATE VERSION:

PLOT DATE:

EROSION CONTROL NOTES

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11. THERE ARE NO WETLANDS LOCATED ON THE SITE.
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13. DUE TO PREVIOUS DEVELOPMENT AND SOIL DISTRUBANCE, SITE SOIL SERIES IS CLASSIFIED AS Ud.

ITEM # 15
ITEM # 16

SDI-C CALCULATIONS

REQUIRED: 2.21 ACRES X 100 L.F./0.25 ACRES = 884 L.F. OF SILT FENCE

PROVIDED: 946 L.F. SILT FENCE

NOTE: STORMWATER DISPOSAL SYSTEM IS PRESENT TO AUGMENT SILT FENCE REQUIREMENTS.

SD2 CALCULATIONS

DRAINAGE AREA max. = 0.75 AC.
REQUIRED SEDIMENT STORAGE = 51 C.Y.
DEPTH = 3
SLOPE OF SIDES 2:1
SAmin = 459 S.F.
SHAPE = CIRCUALR
DIMENSIONS 12' RADIUS

NOTE: CALCULATIONS BASED ON LARGEST AREA TO BE DRAINED. ALL INLETS SHALL BE EXCAVATED TO THESE DIMENSIONS.

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ENGINEER

MATTHEW BRUNE
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452-7849

24 HOUR CONTACT

JOEL HEATON
404-463-5758

TEMPLATE VERSION:

PLOT DATE:

MAINTENANCE STATEMENT:

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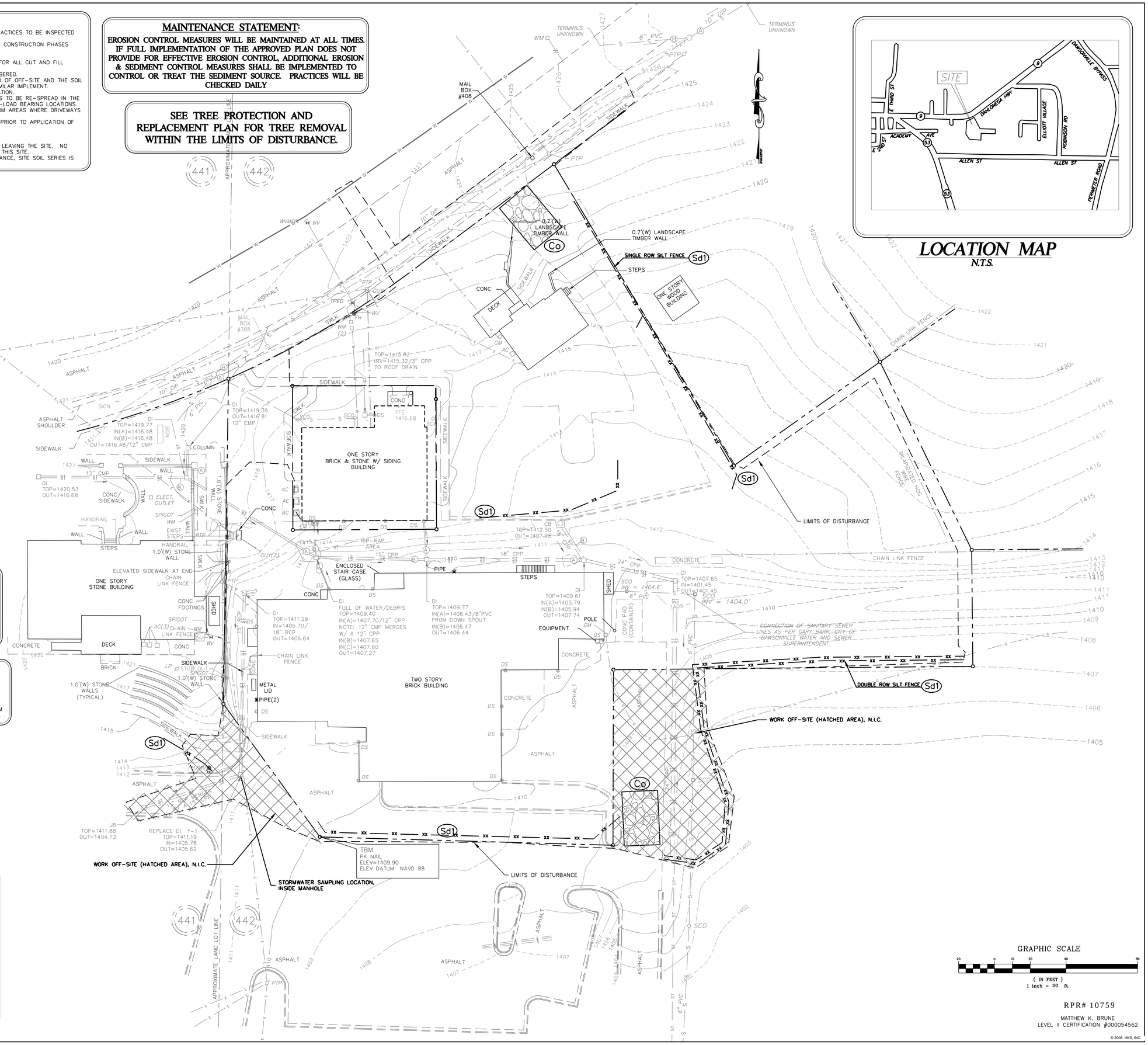
SEE TREE PROTECTION AND REPLACEMENT PLAN FOR TREE REMOVAL WITHIN THE LIMITS OF DISTURBANCE.



LOCATION MAP
N.T.S.

GRAPHIC SCALE

20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

RPR# 10759

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 023765 PROFESSIONAL 6-19-11 ENGINEER MATTHEW KURT BRUNE

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
INITIAL EROSION CONTROL PLAN

SHEET NO.
CE.11

EROSION CONTROL NOTES

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ITEM # 15
ITEM # 16

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PROVIDED: 946 L.F. SILT FENCE

NOTE: STORMWATER DISPOSAL SYSTEM IS PRESENT TO AUGMENT SILT FENCE REQUIREMENTS.

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REQUIRED SEDIMENT STORAGE = 51 C.Y.
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SLOPE OF SIDES 2:1
SAmin = 459 S.F.
SHAPE = CIRCULAR
DIMENSIONS 12' RADIUS

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MATTHEW BRUNE
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452-7849

24 HOUR CONTACT
JOEL HEATON
404-463-5758

MAINTENANCE STATEMENT:

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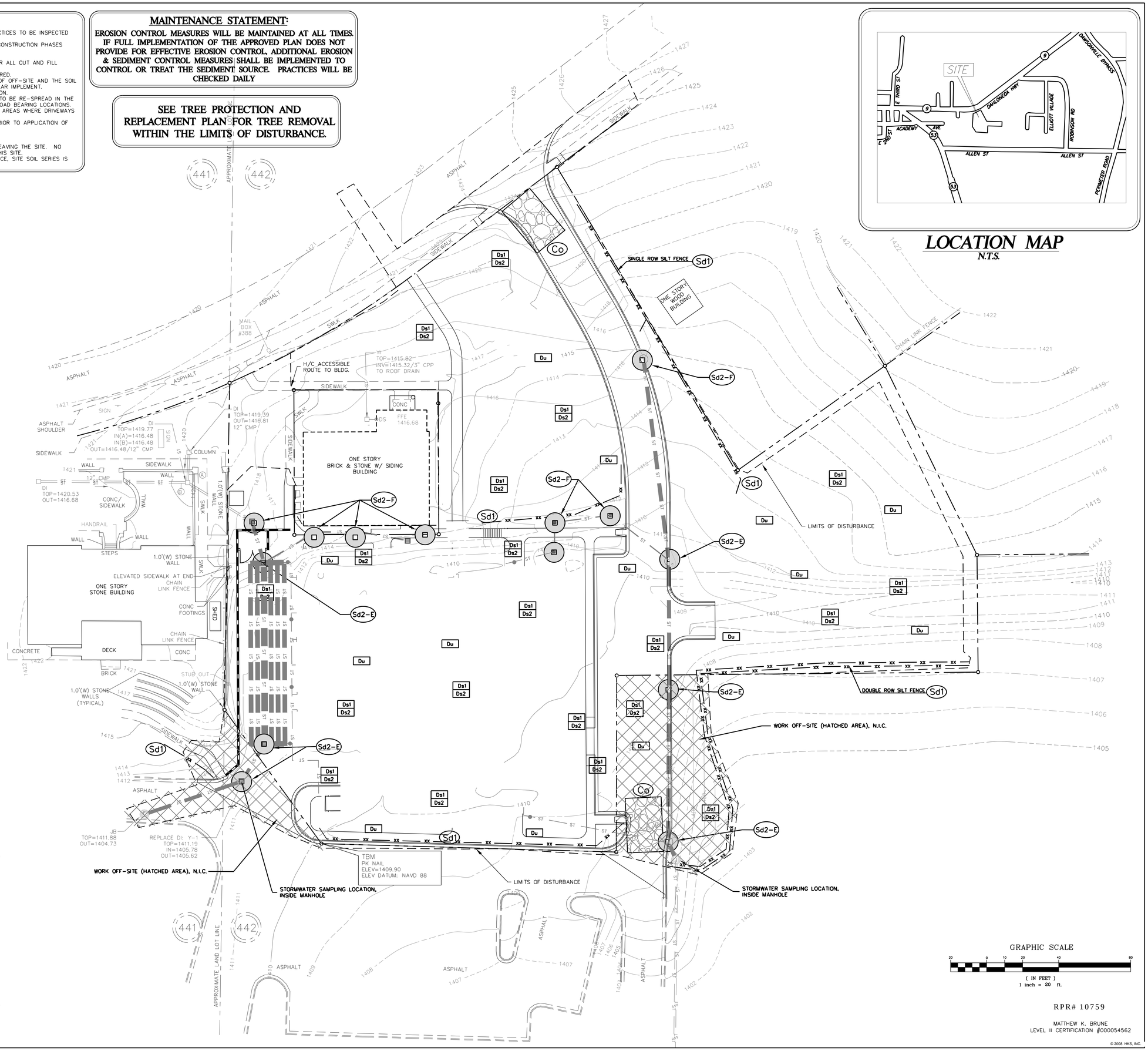

LOCATION MAP
N.T.S.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

RPR# 10759

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

TEMPLATE VERSION:
PLOT DATE:

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL ENGINEER MATTHEW KURT BRUNE 1-19-11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
INTERMEDIATE EROSION CONTROL PLAN
SHEET NO.
CE.12

EROSION CONTROL NOTES

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ITEM # 15
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1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
(770) 452-7849

24 HOUR CONTACT
JOEL HEATON
404-463-5758

MAINTENANCE STATEMENT:

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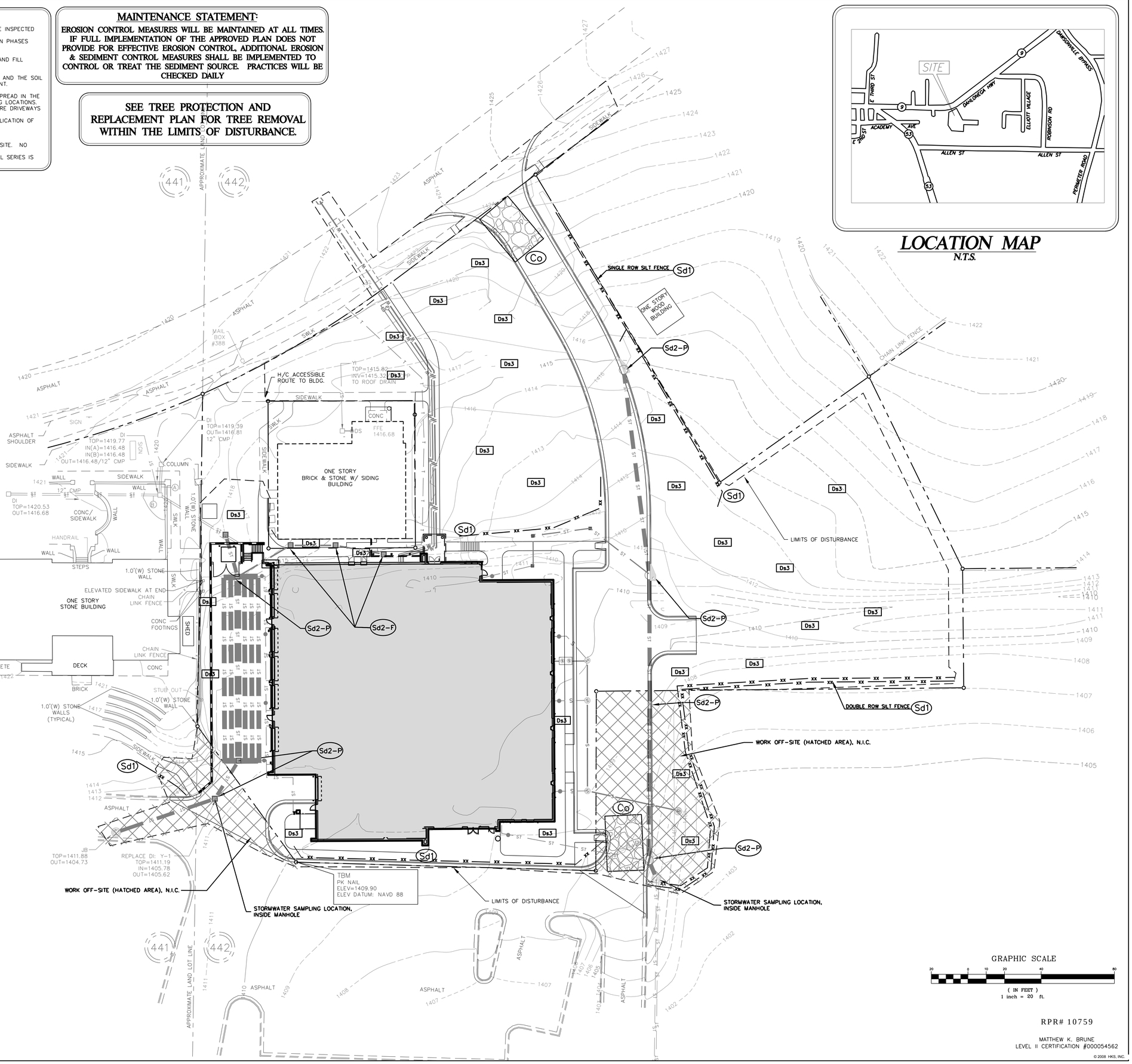

LOCATION MAP
N.T.S.

GRAPHIC SCALE
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(IN FEET)
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MATTHEW K. BRUNE
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1800 CENTURY PLACE,
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ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL 1-19-11 ENGINEER MATTHEW KURT BRUNE

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

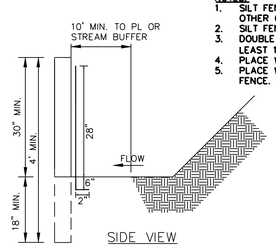
SHEET TITLE
FINAL EROSION CONTROL PLAN

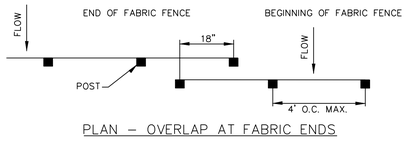
SHEET NO.
CE.13

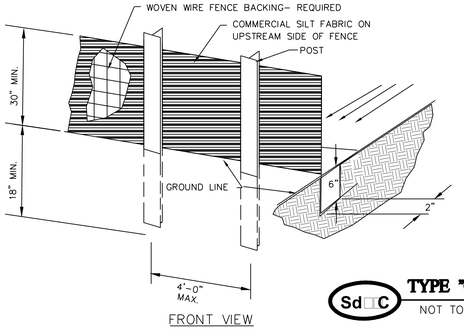
PLOT DATE:
TEMPLATE VERSION:

NOTES:

1. **SILT FENCE SHALL NOT BE INSTALLED ACROSS STREAMS, DITCHES, WATERWAYS, OR OTHER CONCENTRATED FLOW AREAS.**
2. **SILT FENCE CANNOT BE USED FOR SEDIMENT STORAGE.**
3. **DOUBLE ROW SILT FENCE IS REQUIRED NEXT TO STREAM BUFFERS AND MUST BE AT LEAST 10' FROM THE BUFFER.**
4. **PLACE WOOD CHIP MULCH BERMS IN FRONT OF ALL SINGLE ROW SILT FENCE.**
5. **PLACE WOOD CHIP MULCH BERMS OR HAYBALES IN BETWEEN DOUBLE ROW SILT FENCE.**







SPECIFICATIONS:

1. USE ONLY 36" FABRIC ON GEORGIA D.O.T. QUALIFIED PRODUCTS LIST #36.
2. USE STEEL POSTS ONLY. 1.3 LBS/FT MIN.
3. ALONG STREAMS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE C SILT FENCE OR ONE ROW OF TYPE C SILT FENCE BACKED WITH HAYBALES SHALL BE USED.
4. ALL SILT FENCE SHALL MEET THE MINIMUM STANDARD SET FORTH IN SECTION 171–TEMPORARY SILT FENCE OF THE GEORGIA D.O.T., STANDARD SPECIFICATIONS, CURRENT EDITION.
5. ALL SILT FENCE SHALL BE TYPE C, 36" WITH WOVEN WIRE REINFORCEMENT.

TYPE FENCE	C
TENSILE STRENGTH (LBS. MIN.) (ASTM D–4632)	WARP–260 FILL–180
ELONGATION (%MAX) ASTM D–4632)	40
AOS (APPARENT OPENING SIZE) (MAX SIEVE SIZE) (ASTM D 4751)	#30
FLOW RATE (GAL/MIN/SQ.FT.) (GDT–87)	70
ULTRAVIOLET STABILITY (ASTM D–4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D–4355)	80
BURSTING STRENGTH (PSI MIN.) (ASTM D–3786 DIAPHRAGM BURSTING STRENGTH TESTER)	175
MINIMUM FABRIC WIDTH (INCHES)	36

MAINTENANCE REQUIREMENTS:

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE–HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

SdC TYPE "C" SILT FENCE BARRIER

NOT TO SCALE

FILE: Sd1–C TYPE "C" SILT FENCE BARRIER	DWN: KLL	CHK: JTC	08/20/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
LAND PLANNING
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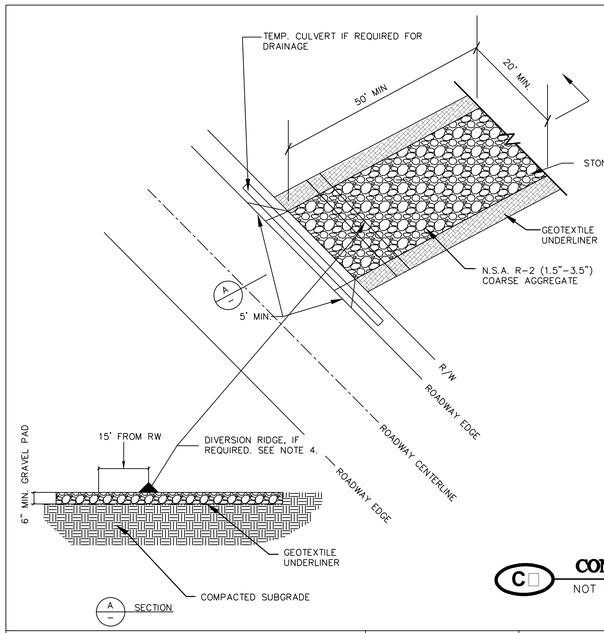

NOTES:

1. NATIONAL STONE ASSOCIATION R–2 (1.5" – 3.5") COARSE AGGREGATE.
2. AT A MINIMUM, THE WIDTH SHOULD EQUAL FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS, BUT NOT LESS THAN 20 FEET WIDE. THE GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES.
3. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD, THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH PROVISIONS THAT INTERCEPT THE SEDIMENT–LADEN RUNOFF AND DIRECT IT INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. ON SITES WHERE THE GRADE TOWARD THE PAVED AREA IS GREATER THAN 2% A DIVERSION RIDGE 6 TO 8 INCHES HIGH WITH 3:1 SIDE SLOPES SHALL BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15 FEET ABOVE THE ROAD.
5. THE GEOTEXTILE UNDERLINE MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288–98 SPECIFICATION.
   – FOR SUBGRADES WITH A CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 kPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288–96 SECTION 7.3, SEPARATION REQUIREMENT.
   – FOR SUBGRADES WITH A CBR BETWEEN 1 AND 3 OR SHEAR STRENGTH BETWEEN 30 AND 90 kPA, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288–96 SECTION 7.4, STABILIZATION REQUIREMENTS.
6. IT IS RECOMMENDED THAT THE ENTRANCE AREA BE EXCAVATED TO A DEPTH OF 3 INCHES AND BE CLEARED OF ALL VEGETATION AND ROOTS.
7. WASH TIRES OF VEHICLES PRIOR TO LEAVING SITE DURING WET CONDITIONS AS NEEDED TO REMOVE SEDIMENT.
8. DESIGNATE A TIRE WASH AREA JUST BEFORE ALL CONSTRUCTION EXITS.
9. DIVERT TIRE WASHING SEDIMENT TO PROPER AREA INORDER TO CONTAIN ON SITE.

MAINTENANCE REQUIREMENTS:

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5–3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

C CONSTRUCTION EXIT

NOT TO SCALE

FILE: Co – CONSTRUCTION ENTRANCE	DWN: SPC	CHK: JTC	08/14/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
LAND PLANNING
CIVIL ENGINEERING
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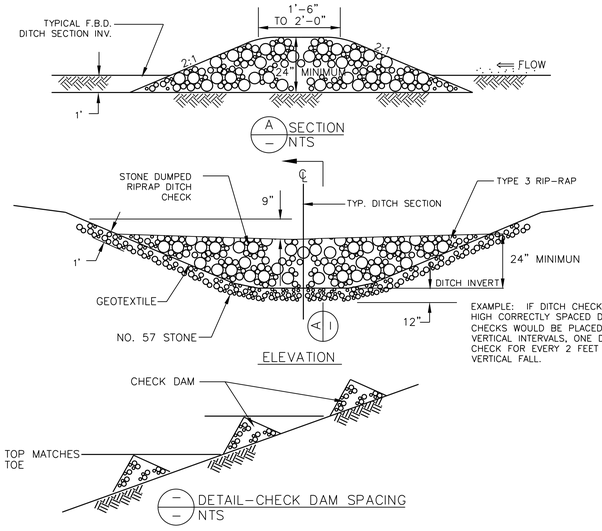

EXAMPLE: IF DITCH CHECK IS 2' HIGH CORRECTLY SPACED DITCH CHECKS WOULD BE PLACED AT 2' VERTICAL INTERVALS, ONE DITCH CHECK FOR EVERY 2 FEET OF VERTICAL FALL.

DESIGN CRITERIA:

DRAINAGE AREA:
FOR STONE CHECK DAMS, THE DRAINAGE AREA SHALL NOT EXCEED TWO ACRES.

HEIGHT:
THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN OUTER EDGES. DAM HEIGHT SHOULD BE 2 FEET MAXIMUM MEASURED TO CENTER OF CHECK DAM.

SIDE SLOPES:
SIDE SLOPES SHALL BE 2:1 OR FLATTER.

SPACING:
TWO OR MORE CHECK DAMS IN SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

GEOTEXTILES:
A GEOTEXTILE SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE AND THE SOIL BASE AND ABUTMENTS. THE GEOTEXTILE WILL PREVENT THE MIGRATION OF SOIL PARTICLES FROM THE SUBGRADE INTO THE GRADED STONE. THE GEOTEXTILE SHALL BE SELECTED/SPECIFIED IN ACCORDANCE WITH AASHTO M288–96 SECTION 7.3, SEPARATION REQUIREMENTS, TABLE 3. GEOTEXTILES SHALL BE "SET" INTO THE SUBGRADE SOILS. THE GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS AND EXTEND FIVE FEET BEYOND THE DOWNSTREAM TOE OF THE DAM TO PREVENT SCOUR.

SPECIFICATIONS:

STONE CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED 2–10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO INSURE COMPLETE COVERAGE OF ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF DAM IS LOWER THAN EDGES.

MAINTENANCE REQUIREMENTS:

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF ONE–HALF THE ORIGINAL DAM HEIGHT OR BEFORE. IF THE AREA IS TO BE MOWED, CHECK DAMS SHALL BE REMOVED ONCE FINAL STABILIZATION HAS OCCURRED. OTHERWISE, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY. AFTER REMOVAL, THE AREA BENEATH THE DAM SHALL BE SEEDED AND MULCHED IMMEDIATELY.

NOTE:

REMOVE ALL CHECK DAMS FROM DITCHES AND STABILIZE THE CHANNEL BOTTOMS ONCE CONSTRUCTION SITE HAS BEEN PERMANENTLY STABILIZED.

Cd/S STONE CHECK DAM

NOT TO SCALE

FILE: Cd – STONE CHECK DAM	DWN: KLL	CHK: JTC	08/14/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
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DEFINITION:

STRIPPING OFF THE MORE FERTILE TOP SOIL, STORING IT, THEN SPREADING IT OVER THE DISTRURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.

PURPOSE:

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH IN AREAS WHERE OTHER MEASURES WILL NOT PRODUCE OR MAINTAIN A DESIRABLE STAND.

CONDITIONS:

THIS PRACTICE IS RECOMMENDED FOR SITES OF 2:1 OR FLATER SLOPES WHERE:

1. THE TEXTURE OF THE EXPOSED SUBSOIL OR PARENT MATERIAL IS NOT SUITABLE TO PRODUCE ADEQUATE VEGETATIVE GROWTH
2. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS WITH CONTINUING SUPPLIES OF MOISTURE AND FOOD.
3. THE SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

CONSTRUCTION SPECIFICATIONS:

MATERIALS:
TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFULL TO PLANT GROWTH. A pH RANGE OF 5.0–7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT EXCEED 500 PPM.

TESTING
FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER THE QUANTITY AND QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

STRIPPING
STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MANY VARY DEPENDING ON THE PARTICULAR SOIL.

TOPSOIL pH
IF pH IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE pH TO 6.5 OR HIGHER. TOPSOILS CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

STOCKPILES:
THE LOCATION OF TOPSOIL STOCKPILES SHOULD NOT OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF–SITE ENVIRONMENTAL DAMAGE.

STABILIZATION:
STOCKPILES SHALL BE CONTAINED BY SEDIMENT BARRIERS TO PREVENT SEDIMENTATION ON ADJACENT AREAS. STOCKPILES SHALL BE STABILIZED IN ACCORDANCE WITH SPECIFICATIONS Ds1 AND **Ds2 – DISTURBED AREA STABILIZATION (WITH MULCHING) AND (WITH TEMPORARY GRASSING)**, RESPECTIVELY, OR **Pm – POLYACRYLAMIDE** OR **Tb – TACKIFIERS AND BINDERS.**

SITE PREPARATION (WHERE TOPSOIL IS TO BE ADDED)
TOPSOILING WHEN TOPSOILING, MAINTAIN NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, LEVEL SPREADERS, WATERWAYS, SEDIMENT BASINS, ETC.
GRADING GRADES ON THE AREAS TO BE TOPSOILED WHICH HAVE BEEN PERVIOUSLY ESTABLISHED SHALL BE MAINTAINED.
LIMING SOIL TESTS SHOULD BE USED TO DETERMINE THE pH OF THE SOIL. WHERE THE pH OF THE SUBSOIL IS 5.0 OR LESS OR COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET. LIME SHALL BE DSTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURE.
BONDING USE ONE OF THE FOLLOWING METHODS TO INSURE BONDING OF TOPSOIL AND SUBSOIL:

1. **TILLING.** AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL.
2. **TRACKING.** PASSING A BULLDOZER OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS.

APPLYING TOPSOIL

1. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
2. A UNIFORM APPLICATION OF 5 INCHES (UNSETTLED) IS RECOMMENDED, BUT MAY BE ADJUSTED AT THE DESCRETION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

DEPTH (INCHES)	PER 1,000 SQUARE FEET	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

TABLE 6–26.1

T TOPSOILING

NOT TO SCALE

FILE: Tp TOPSOILING	DWN: KLL	CHK: JTC	08/21/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

RPR# 10759

PLOT DATE:

TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361–3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033195 PROFESSIONAL 4-19-11 ENGINEER MATTHEW KURT BRUNE

KEY PLAN

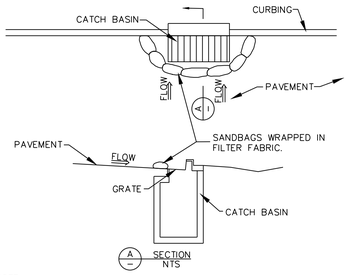
REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
EROSION CONTROL DETAILS

SHEET NO.
CE.21



NOTE:

1.) INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.

2.) ADJUST THE NUMBER OF SANDBAGS LAID ON THEIR SIDE TO CONTROL FLOW THROUGH RATE.

CURB INLET PROTECTION:

ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. **THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.**

ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BLANKET" – 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. ANOTHER METHOD USES SAND OR GRAVEL BAGS CONSTRUCTED BY WRAPPING DOT #57 STONE WITH FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.

A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL DUE TO POSSIBLE PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.

MAINTENANCE REQUIREMENTS:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.

WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

NOTE:

1. **THE MAXIMUM DRAINAGE AREA ALLOWED TO FLOW TO ANY ONE INLET SEDIMENT TRAP IS 1.0 ACRE.**

Sd□P CURB INLET PROTECTION, SAND OR ROCK BAGS

NOT TO SCALE

FILE: Sd2-P CURB INLET PROTECTION, SAND BAGS	DWN: KLL	CHK: JTC	08/26/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
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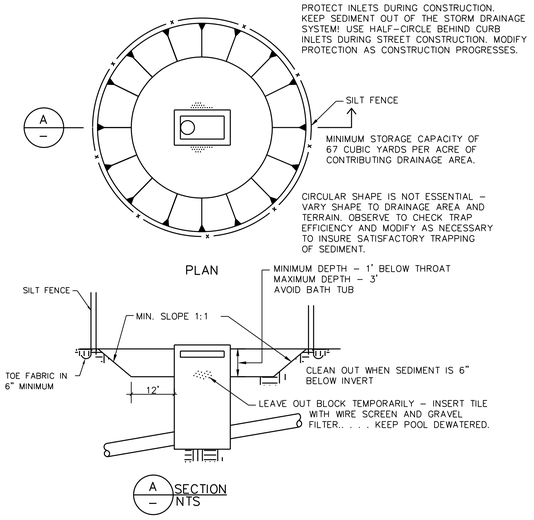

EXCAVATED INLET SEDIMENT TRAP

AN EXCAVATION MAY BE CREATED AROUND THE INLET SEDIMENT TRAP TO PROVIDE ADDITIONAL SEDIMENT STORAGE. THE TRAP SHALL BE SIZED TO PROVIDE A MINIMUM STORAGE CAPACITY AT THE RATE OF 67 CUBIC YARDS PER ACRE OF DRAINAGE AREA. A MINIMUM DEPTH OF 1.5 FEET FOR SEDIMENT STORAGE SHOULD BE PROVIDED. SIDE SLOPES SHALL NOT BE STEEPER THEN 2:1.

MAINTENANCE REQUIREMENTS:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE-HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.

WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

NOTE:

1. **THE MAXIMUM DRAINAGE AREA ALLOWED TO FLOW TO ANY ONE INLET SEDIMENT TRAP IS 0.75 ACRES.**

Sd□E EXCAVATED INLET SEDIMENT TRAP

NOT TO SCALE

FILE: Sd2-E – EXCAVATED SEDIMENT TRAP	DWN: KLL	CHK: JTC	08/20/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
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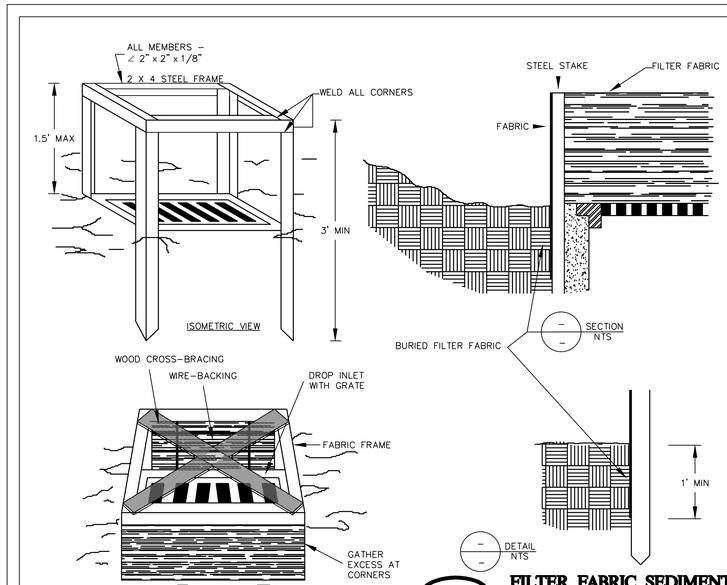
1.95 ACRES OF SITE DISTURBANCE REQUIRES 134 CU. YDS. OF SEDIMENT STORAGE. THE FOUR EXCAVATED INLET SEDIMENT TRAPS WILL PROVIDE 200 CU. YDS. OF STORAGE.



SPECIFICATIONS:

1. SEDIMENT TRAPS MAY BE CONSTRUCTED ON NATURAL GROUND SURFACE, ON AN EXCAVATED SURFACE, OR ON MACHINE COMPACTED FILL, PROVIDED THEY HAVE A NONERODIBLE OUTLET.
2. USE TYPE "C" SILT FENCE SUPPORTED BY STEEL POSTS.
3. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM 3 FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
4. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION. FRAME WITH A 2X4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
5. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES OF COMPACTED SOIL.
6. FASTEN FABRIC AND WIRE SECURELY TO THE POSTS. FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.
7. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

MAINTENANCE REQUIREMENTS:

THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.

SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN.

WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

NOTE:

1. **THE MAXIMUM DRAINAGE AREA ALLOWED TO FLOW TO ANY ONE INLET SEDIMENT TRAP IS 1.0 ACRE.**

Sd□F FILTER FABRIC SEDIMENT TRAP

NOT TO SCALE

FILE: Sd2-F – FILTER FRABRIC SEDIMENT TRAP	DWN: KLL	CHK: JTC	08/20/06

EBERLY & ASSOCIATES
TEL: 770.452.7949 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.EBERLY.NET
LAND PLANNING
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Du Dust Control On Disturbed Areas

Definition:
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

Purpose:
–To prevent surface and air movement of dust from exposed soil surfaces.
–To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

Conditions:
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

Method & Materials:

A. Temporary Methods
Mulches. See standard Ds1 – Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb – Tackifiers & Binders. Resins such as Curasol or Terratack should be used according to manufacturer's recommendations.
Vegetative Cover. See standard Ds2 – Disturbed Area Stabilization (With Temporory Seeding).
Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb – Tackifiers & Binders.
Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12" apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
Irtigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.
Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.
Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods
Permanent Vegetation. See standard Ds3 – Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.
Topsoiling. This entails covering the surface with less erosive material. See Tp.
Stone. Cover surface with crushed stone or coarse gravel. See standard Cr – Construction Road Stabilization.

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED NO. 033105 PROFESSIONAL ENGINEER MATTHEW KURT BRUNE 4-19-11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
EROSION CONTROL DETAILS
SHEET NO.
CE.22

PLOT DATE:
TEMPLATE VERSION:

FOR TEMPORARY PROTECTION OF CRITICAL AREAS WITHOUT SEEDING, THIS STANDARD APPLIEES TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION FOR 6 MONTHS OR LESS, WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT WHICH CAN BE STABLIZED WITH A MULCH COVER.

MATERIALS	RATE	APPLICATION
DRY STRAW OR HAY	2 ½ TONS PER ACRE	APPLY UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. ANCHOR HAY DISK HARROW OR PACKER DISK OR WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) AT A RATE OF 100 GAL PER 100 GAL OF WATER FOR EACH TON OF MULCH.
WOOD WASTE, CHIPS, SAWDUST, OR BARK	2" TO 3" THICK, ABOUT 6 TO 9 TONS PER ACRE	ANCHOR WITH NETTING OF THE APPROPRIATE SIZE. OPENINGS IN THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
EROSION CONTROL MATTING OR NETTING	APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS	APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
ASPHALT SPRAY (T-908-02)	SEE PROJECT SPECIFICATIONS	APPLY UNIFORMLY
POLYETHYLENE FILM	SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL	ANCHOR TRENCH AT THE TOP OF SLOPE AS WELL AS INCREMENTALLY AS NECESSARY

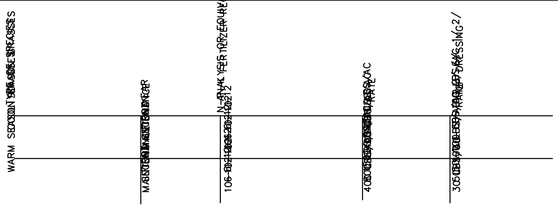
MAINTENANCE REQUIREMENTS:
INSPECT ALL MULCHED AREAS ON A DAILY BASIS AND AFTER EACH RAINFALL EVENT, REGRADE ERODED AREAS AND REMULCH AREAS IN WHICH THE COVER IS NO LONGER GREATER THAN 90% CONTINUOUS.

Ds1 TEMPORARY MULCHING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR FURTHER DETAILS AND SPECIFICATIONS

FILE: Ds1 – TEMPORARY MULCHING | DWN: KLL | CHK: JTC | 10/30/06

DERLEY & ASSOCIATES
TEL: 770.452.7849 FAX: 770.452.0086
1852 CENTURY PLACE, SUITE 202
ATLANTA, GEORGIA 30345
WWW.DERLEY.NET
LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE



PLANTS, PLANTING RATES, AND PLANTING RATES FOR TEMPORARY COVER OR COMPANION CROPS 1/

SPECIES	BROADCAST RATES 2/ – PLS 3/ PER ACRE	PER 1000 S.F.	RESOURCE AREA 4/	PLANTING DATES J F M A M J J A S O N D	REMARKS
BARLEY (Hordeum vulgare) ALONE IN MIXTURES	144 LBS. 24 LBS.	3.3 LBS. 0.6 LBS.	M-L P C		14,00 SEEDS PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS.
LESPEDEZA, ANNUAL (Lespedeza striata) ALONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	M-L P C		200,000 SEEDS PER POUND, MAY VOLUNTEER PER SEVERAL YEARS. USE INOCULANT EL.
LOVEGRASS, WEEPING (Eragrostis curvula) ALONE IN MIXTURES	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	M-L P C		1,500,000 SEEDS PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA
MILLET, BROWNTOP (Panicum fasciculatum) ALONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.	M-L P C		137,000 SEEDS PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
MILLET, PEARL (Pennesetum glaucum) ALONE IN MIXTURES	50 LBS.	1.1 LBS.	M-L P C		88,000 SEEDS PER POUND. QUICK, DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED IN MIXTURES
OATS (Aveno sativa) ALONE IN MIXTURES	128 LBS. 32 LBS.	2.9 LBS. 0.7 LBS.	M-L P C		13,000 SEEDS PER POUND. USE ON PRODUCTIVE SOILS. NOT AS WINTERHARDY AS RYE OR BARLEY.
RYE (Secale cereale) ALONE IN MIXTURES	168 LBS. 28 LBS.	3.9 LBS. 0.6 LBS.	M-L P C		18,000 SEEDS PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS, ANNUAL (Lolium termulentum) ALONE	40 LBS.	0.9 LBS.	M-L P C		227,000 SEEDS PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
SUDANGRASS (Sorghum sudnaese) ALONE	60 LBS.	1.4 LBS.	M-L P C		55,000 SEEDS PER POUND. GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE (X-Triticosecale) ALONE IN MIXTURES	144 LBS. 24 LBS.	3.3 LBS. 0.6 LBS.	C		USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC COASTAL FLATWOODS ONLY.
WHEAT (Triticum aestivum) ALONE IN MIXTURES	180 LBS. 30 LBS.	4.1 LBS. 0.7 LBS.	M-L P C		15,000 SEED PER POUND. WINTERHARDY.

1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWD OUT PERENNIALS IF SEEDED TOO HEAVILY.
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AND ABBREVIATION FOR PURE LIVE SEED.
4/ M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRA'S.

NOTES:

1. APPLY TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
2. IF DISTURBED AREAS ARE TO BE LEFT UNDISTURBED FOR LESS THAN 6 MONTHS USE TEMPORARY GRASSING, OTHERWISE USE PERMANENT GRASSING.
3. SOIL TO RECEIVE GRASSING IS TO BE SCARIFIED TO PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
4. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE.
5. FOR LOW FERTILITY SOILS, APPLY 500-700 LBS. OF 10-10-10- FERTILIZER PER ACRE. APPLY BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL.
6. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL CULTIPACER-SEEDER OR HYDRAULIC SEEDER. RAKE SOIL LIGHTLY TO COVER SEED WHEN APPLIED BY HAND.
7. PROVIDE WATER AS REQUIRED TO GERMINATE AND MAINTAIN A HEALTHY THICK COVER OF GRASS.

MAINTENANCE REQUIREMENTS:

INSPECT ALL AREAS WHERE TEMPORARY GRASSING HAD BEEN APPLIED. WHERE COVER IS SPARSE, SCARIFY THE AREA, TEST SOIL FERTILITY, APPLY FERTILIZER AS NECESSARY AND RESEED WHERE EROSION HAS OCCURRED, REGRADE PRIOR TO ABOVE STEPS.

Ds2 TEMPORARY GRASSING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GOERGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

SPECIES	BROADCAST RATES 2/ – PLS 3/ PER ACRE	PER 1000 S.F.	RESOURCE AREA 4/	PLANTING DATES J F M A M J J A S O N D	REMARKS
BAHIA, PENSACOLA (Paspalum notatum) ALONE OR W/OTHER TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	P C		166,000 SEEDS PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH, PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA PESPEDEZA OR WEEPING LOVEGRASS.
BAHIA, WILMINGTON (Paspalum notatum) ALONE OR W/OTHER TEMPORARY COVER WITH OTHER PERENNIALS	60 LBS. 30 LBS.	1.4 LBS. 0.7 LBS.	M-L P		166,000 SEEDS PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH, PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA PESPEDEZA OR WEEPING LOVEGRASS.
BERMUNDA, COMMON (Cynodon dactylon) HULLED SEED ALONE WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C		1,787,000 SEEDS PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUNDA, COMMON (Cynodon dactylon) UNHULLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C		PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESUCE.
BERMUDA SPRIGS (Cynodon dactylon) COASTAL, COMMON MOLAND, OR TIFT 44 COASTAL, COMMON OR TIFT 44 TIFT 78	40 C.F. OR 500 PLUGS 3' x 3'	0.9 C.F.	M-L P C C		A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CUBIC FEET OR APPROXIMATELY 800 SPRIGS. SAME AS ABOVE. SOUTHERN COASTAL PLAIN ONLY.
CENTIPEDE (Eremochioa aphiuroides)	BLOCK SOD ONLY		P C		DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONC. AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
CROWNVETECH (Coronilla varia) WITH WINTER ANNUALS OR COOL SEASON GRASS	15 LBS.	0.3 LBS.	M-L P		100,000 SEEDS PER POUND. DENSE GROWTH, ATTRACTIVE ROSE, PINK AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX W/ 30 LBS. OF TALL FESCUE OR 15 LBS. OF RYE INOCULATE SEED WITH M INOCULANT, USE FROM NORTH ATLANTA AND NORTHWARD.
FESCUE, TALL (Festuca arundinacea) ALONE W/ OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	M-L P		227,000 SEEDS PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHT SOIL. MIX WITH PERENNIAL LESPEDEZAS OR CROWNVETECH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTING. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
KUDZU (Pueraria thumbergiana) PLANTS OR CROWNS	3" – 7" APART		ALL		RAPID AND VIGORIOUS GROWTH. EXCELLENT IN GULLY EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE.
LESPEDEZA Amora virgata (Lespedeza virgata DC) OR Appalow (Lespedeza cuneata [Dumont] G. Don.) SCARIFIED UNSCARIFIED	60 LBS. 70 LBS.	1.4 LBS. 1.7 LBS.	M-L P C M-L P C		300,000 SEEDS PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS. SPREADING-TYPE GROWTH. NEW GROWTH HAS BRONZE COLORATION. MIX W/ WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, TALL FESCUE, OR WINTER ANNUALS. DO NOT MIX W/ SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. INOCULATE SEED W/ EL INCULANT.

THICK LINES INDICATE OPTIMUM DATES, THIN LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

1/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
2/ PLS IS AN ABBREVIATION FOR PURE LIVE SEED, REFER TO SECTION V.E. OF THESE PECIFICATIONS.
3/ M-L REPRESENTS THE MOUNTAIN, BLUE RIDGE, AND RIDGES AND VALLEYS MLRA'S.
P REPRESENTS THE SOUTHERN PIEDMONT MLRA.
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRA'S.

Ds3 PERMANENT GRASSING

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GOERGIA" FOR FURTHER DETAILS AND SPECIFICATIONS.

NOTES:

1. PERMANANT GRASSING SHALL BE APPLIED TO GRADED AREAS THAT WILL BE UNDISTURBED FOR MORE THAN 6 MONTHS.
2. APPLY TO ALL AREAS IMMEDIATELY AFTER THEY HAVE REACHED FINAL GRADE.
3. APPLY AGRICULTURAL LIME AT A RATE OF 1-2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.
4. RYE GRASS SHALL NOT BE USED IN ANY SEEDING MIXTURE CONTAINING PERINNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANANT PERENNIAL COVER.
5. FOR HYDRAULIC SEEING, MIX SEED, FERTILIZER AND WOOD CELLULOSE OR WOOD PULP FIBER WITH WATER AND APPLY IN SLURRY UNIFORMLY OVER THE TREATED AREA. APPLY WITHIN 1 HOUR OF MIXING. MULCH IS TO BE APPLIED AT A RATE OF 500 LBS. PER ACRE.
6. FOR CONVENTIONAL SEEDING USE A CULTI-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER OR HAND SEED UNIFORMLY OVER THE SEED WITH 1/8" TO 1/2" OF SOIL. PROVIDE TEMPORARY MULCHING WITHIN 24 HOURS OF SPREADING SEED. MULCH SHALL COVER 75% OF THE SOIL SURFACE.

MAINTENANCE REQUIREMENTS:

PROVIDE PERIODIC INSPECTIONS AND AFTER EACH RAINFALL EVENT AND REGRASS AREAS THAT ARE BARE OR HAVE ERODED. ESCLUDE TRAFFIC ON GRASSED AREAS UNTIL GRASS IS ESTABLISHED. MOW AS REQUIRED.

MATTHEW K. BRUNE
LEVEL II CERTIFICATION #000054562

RPR# 10759

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 032780 MATTHEW KURT BRUNE 4-19-11

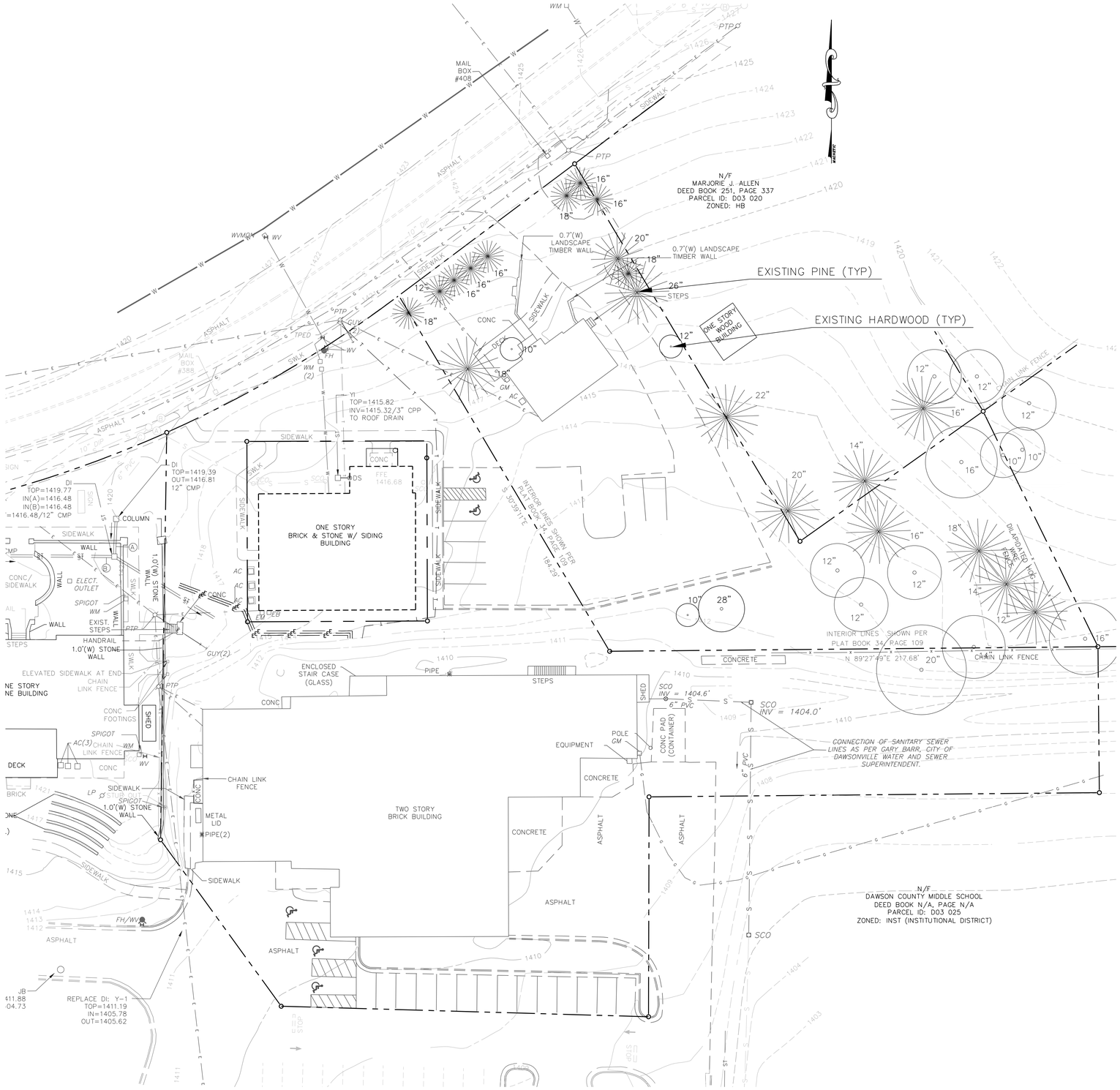
KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
EROSION CONTROL DETAILS
SHEET NO.
CE.23

PLOT DATE:
TEMPLATE VERSION:



1 / TP 1.0 EXISTING CONDITIONS PLAN SCALE–1" = 20'–0"

EXISTING TREES		
SIZE	HARDWOOD	PINE
10"	3	
12"	4	2
14"	1	1
16"	2	5
18"		5
20"	1	1
26"		1
28"	1	
TOTAL INCHES	**172**	**254**
TOTAL TREES	**12**	**15**

NOTE:
426" OF EXISTING TREES
27 TOTAL TREES

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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TECHNICAL COLLEGE SYSTEM OF GEORGIA
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SUITE 400
ATLANTA, GA. 30345

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HKS PROJECT NUMBER
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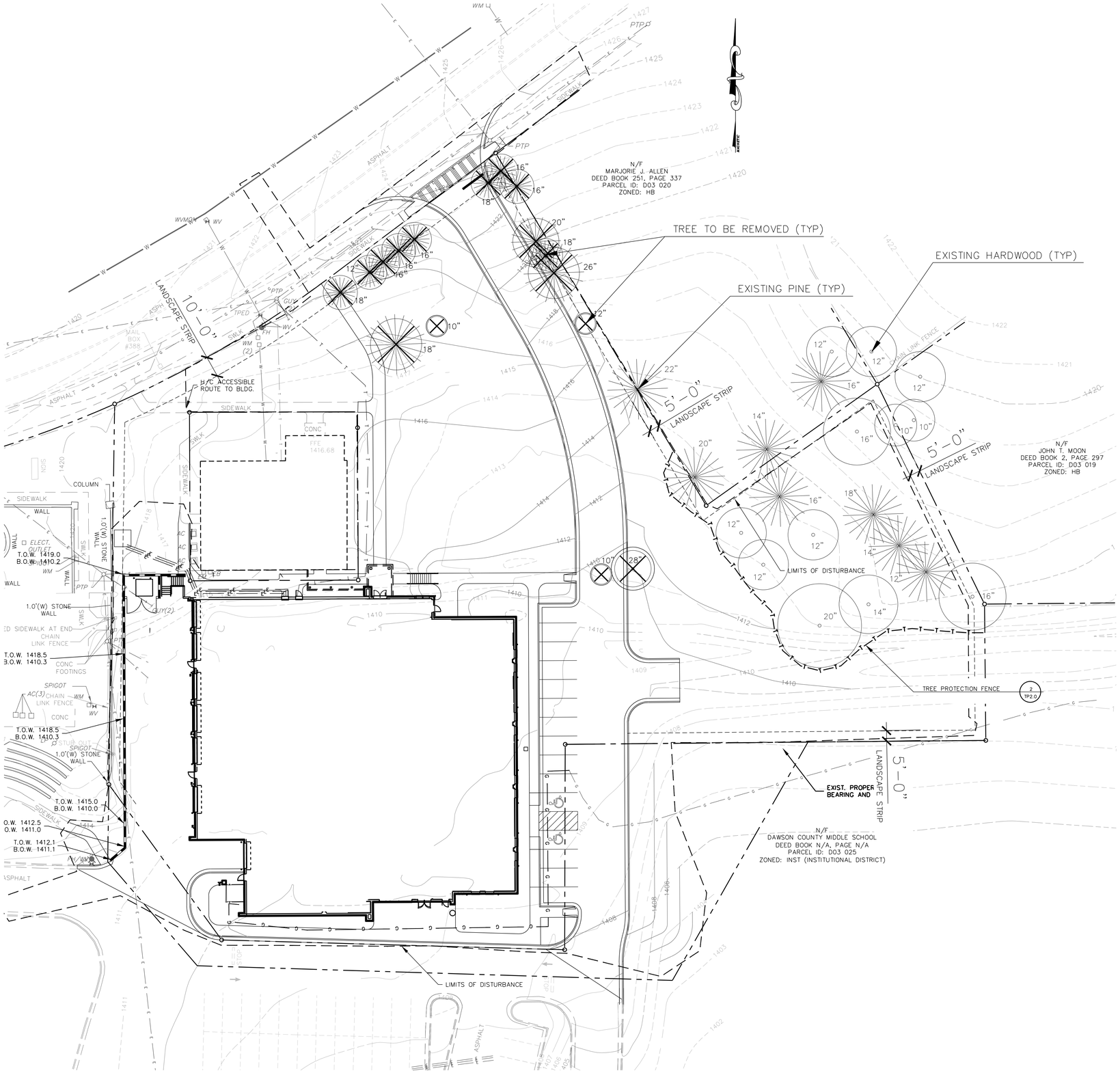
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
EXISTING CONDITIONS

SHEET NO.
TP 1.0

PLOT DATE:
TEMPLATE VERSION:



1 TP 2.0 TREE PROTECTION AND REMOVAL PLAN SCALE-1" = 20'-0"

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

EXISTING TREES		
SIZE	HARDWOOD	PINE
10"	3	
12"	4	2
14"	1	1
16"	2	5
18"		5
20"	1	1
26"		1
28"	1	
TOTAL INCHES	172	254
TOTAL TREES	12	15

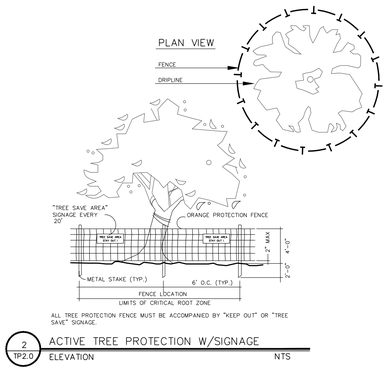
REMOVED TREES		
SIZE	HARDWOOD	PINE
10"	2	
12"	1	1
14"		
16"		5
18"		4
20"		1
26"		1
28"	1	
TOTAL INCHES	60	202
TOTAL TREES	4	12

NOTE:

426" OF EXISTING TREES
27 EXISTING TREES

262" OF REMOVED TREES
16 REMOVED TREES

** 61% OF EXISTING TREES REMOVED
** 59% TREES PRESERVED



ALL TREE PROTECTION FENCE MUST BE ACCOMPANED BY "KEEP OUT" OR "TREE SAVE" SIGNAGE.

2 TP2.0 ACTIVE TREE PROTECTION W/SIGNAGE ELEVATION NTS

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
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DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION

HKS PROJECT NUMBER
12528.000

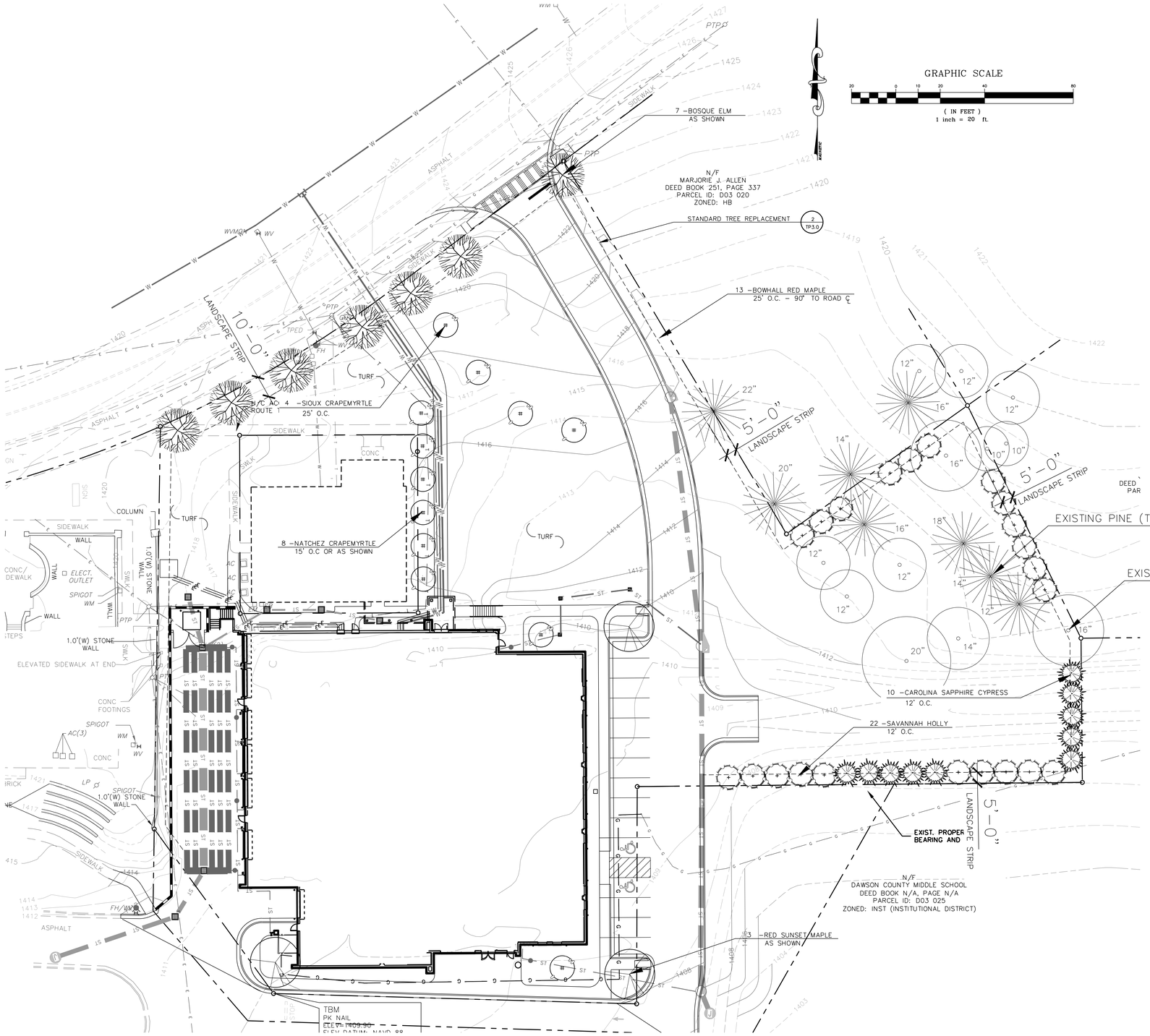
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
TREE REMOVAL PLAN

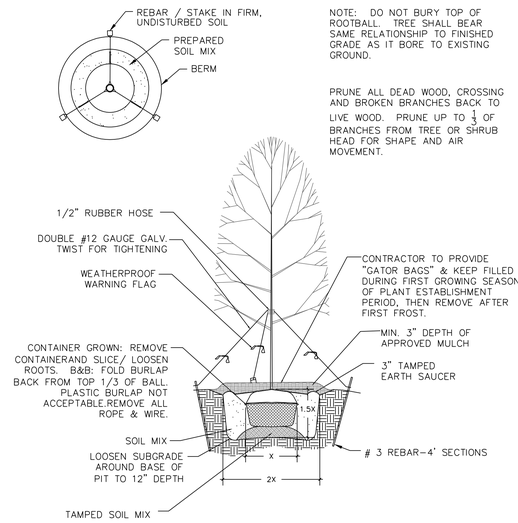
SHEET NO.
TP 2.0

PLOT DATE:
TEMPLATE VERSION:



1 / TP 3.0 — REVEGETATION PLAN

PLAN — SCALE-1" = 20'-0"



2 / TP 3.0 — TYPICAL TREE PLANTING / STAKING

SECTION — NTS

PLANTING SCHEDULE

QTY.	Botanical Name	Common Name	Cal.	Size	Comment
13	Acer rubrum 'Bowhall'	Bowhall Red Maple	2"	B&B	Straight leader, no split leaders acceptable, free of disease.
3	Acer rubrum 'Red Sunset '	Red Sunset Red Maple	2"	B&B	Straight leader, no split leaders acceptable, free of disease.
10	Cupressus arizonica 'Carolina Sapphire'	Carolina Sapphire Cypress	6' ht	B&B	Full, even crown; free of disease and insects.
22	Ilex x attenuata 'Savannah'	Savannah Holly	6' ht.	B&B	Full, even crown; free of disease and insects.
8	Lagerstroemia indica 'Natchez'	Natchez Crapemyrtle	8' ht.	B&B	3-5 Canes only, full crown; free of disease and insects.
4	Lagerstroemia indica 'Souix'	Souix Crapemyrtle	8' ht.	B&B	3-5 Canes only, full crown; free of disease and insects.
7	Ulmus parvifolia	Bosque Elm	3"	B&B	Full, even crown; free of disease and insects.

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ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
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FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED No. 000744 LANDSCAPE ARCHITECT DAVID J. PATTERSON

KEY PLAN

REVISION

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

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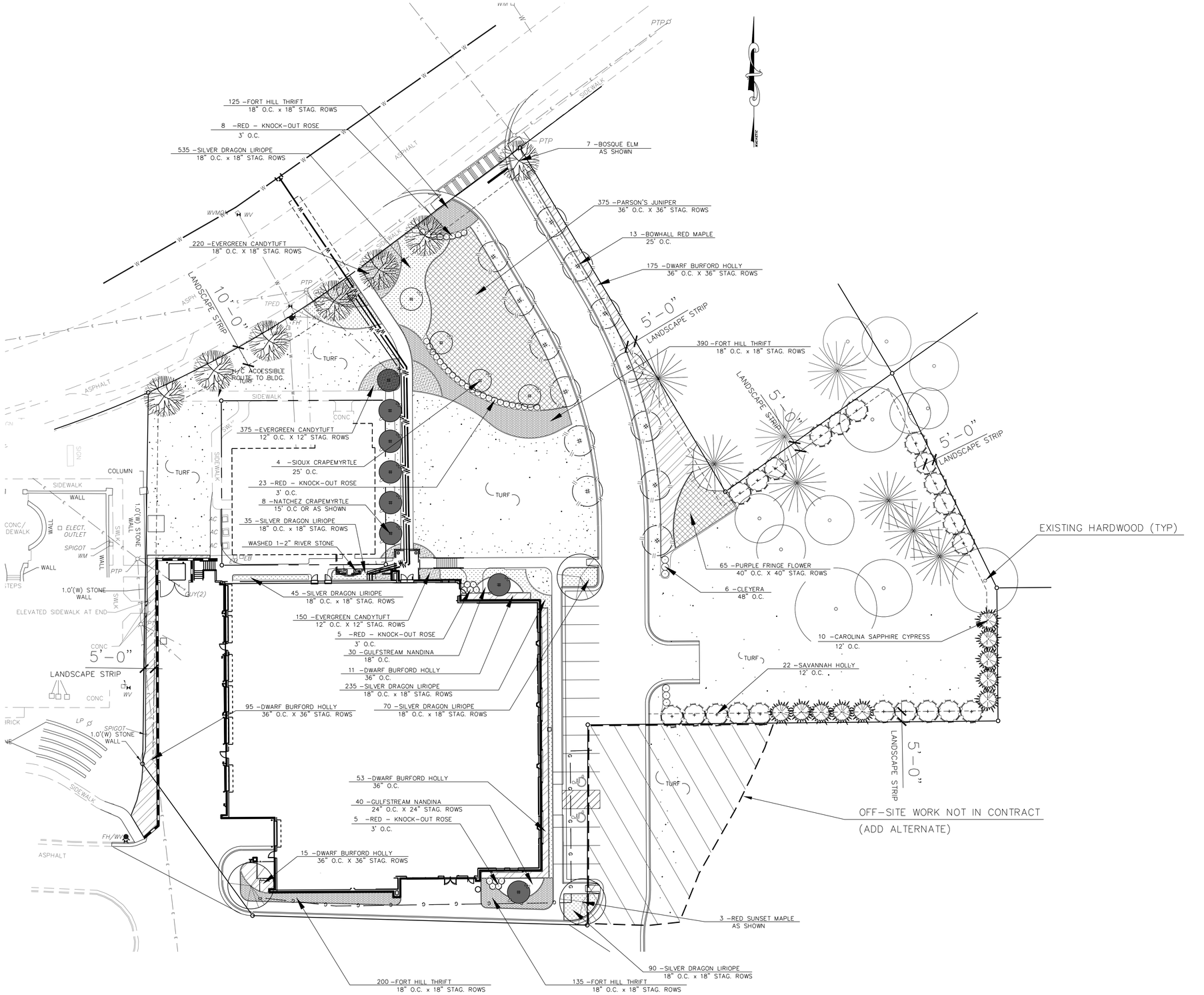
SHEET TITLE
TREE REPLACEMENT PLAN

SHEET NO.
TP 3.0

PLOT DATE:

TEMPLATE VERSION:



1 / LS 1.0 OVERALL LANDSCAPE PLAN SCALE–1" = 20'–0"

ARCHITECT
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3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
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MACON, GA. 31210

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LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

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TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

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HKS PROJECT NUMBER
12528.000

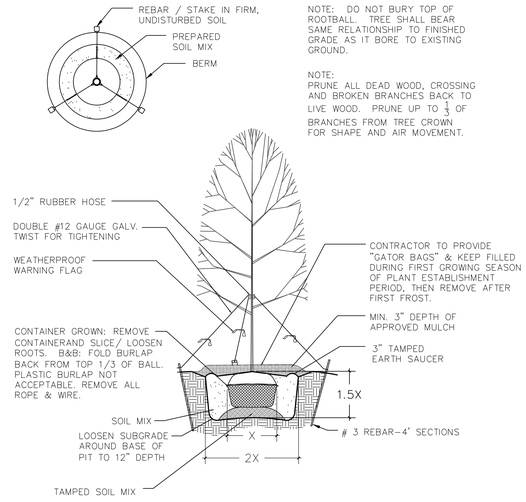
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
OVERALL
LANDSCAPE PLAN

SHEET NO.
LS 1.0

PLOT DATE:
TEMPLATE VERSION:

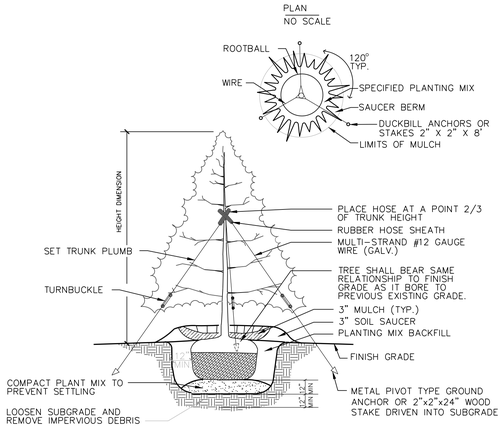


NOTE: DO NOT BURY TOP OF ROOTBALL. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO EXISTING GROUND.

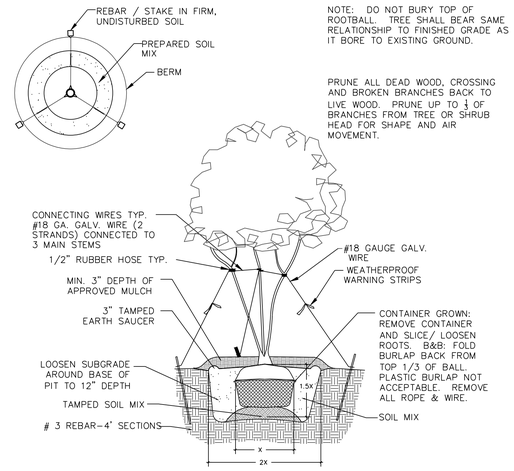
NOTE:
PRUNE ALL DEAD WOOD, CROSSING AND BROKEN BRANCHES BACK TO LIVE WOOD. PRUNE UP TO $\frac{1}{3}$ OF BRANCHES FROM TREE CROWN FOR SHAPE AND AIR MOVEMENT.

1 LS 2.0 — STANDARD TREE PLANTING
SECTION — SCALE: NTS

NOTES: 1. EVERGREEN TREES 2" CAL OR SMALLER MAY BE STAKED.



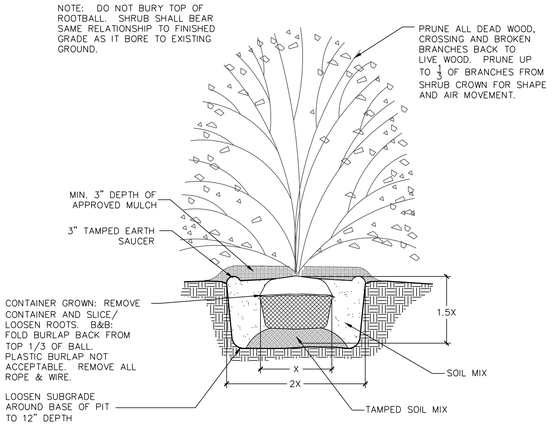
2 LS 2.0 — EVERGREEN TREE PLANTING
SECTION — SCALE: NTS



NOTE: DO NOT BURY TOP OF ROOTBALL. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO EXISTING GROUND.

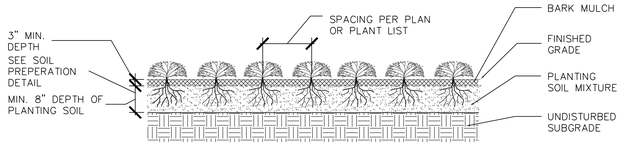
PRUNE ALL DEAD WOOD, CROSSING AND BROKEN BRANCHES BACK TO LIVE WOOD. PRUNE UP TO $\frac{1}{3}$ OF BRANCHES FROM TREE OR SHRUB HEAD FOR SHAPE AND AIR MOVEMENT.

3 LS 2.0 — MULTI-STEM TREE PLANTING
SECTION — SCALE: NTS



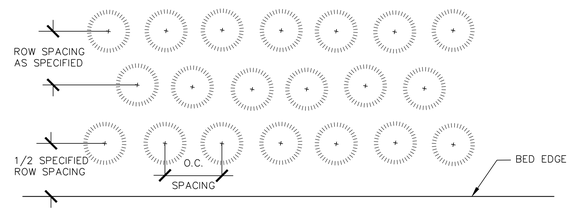
4 LS 2.0 — TYPICAL SHRUB PLANTING
SECTION — SCALE: NTS

*NOTE: PLANTING SOIL MIX IS NOT TO COVER THE ROOTMASS OF B&B OR CONTAINER MATERIAL. CONTAINER SOIL MIX SHALL BE IN DIRECT CONTACT WITH MULCH.



5 LS 2.0 — SHRUB / GROUNDCOVER PLANTING BED
SECTION — SCALE: NTS

NOTE: PLANT SPACING SHOWN OR SPECIFIED ON PLANS MAY VARY DEPENDING ON LOCATION AND DENSITY OF PLANTINGS. CONTRACTOR IS RESPONSIBLE TO STAKE-OUT PLANTS ON SLOPES ADJUSTED TO REFLECT HORIZONTAL SPACING REGARDLESS OF SLOPE SEVERITY.



6 LS 2.0 — TYPICAL STAGGERED / TRIANGULAR PLANT SPACING
PLAN — SCALE: NTS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION

HKS PROJECT NUMBER
12528.000

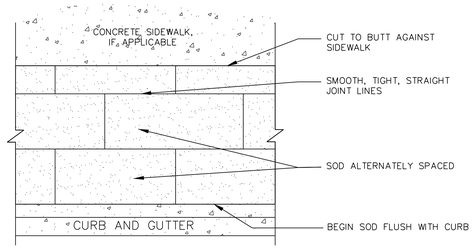
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
LANDSCAPE DETAILS

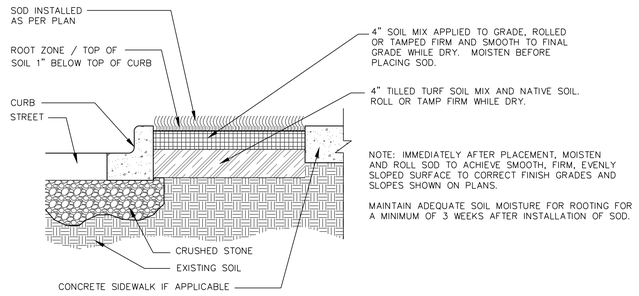
SHEET NO.
LS 2.0

PLOT DATE:
TEMPLATE VERSION



NOTE: SOD SHALL NOT HAVE GAPS OF GREATER THAN 1/4" AT JOINTS. SOD SHALL BE SMOOTHLY CUT TO FIT AROUND ALL EXISTING STRUCTURES.

1 LS 3.0 SOD PLACEMENT PLAN SCALE: NTS

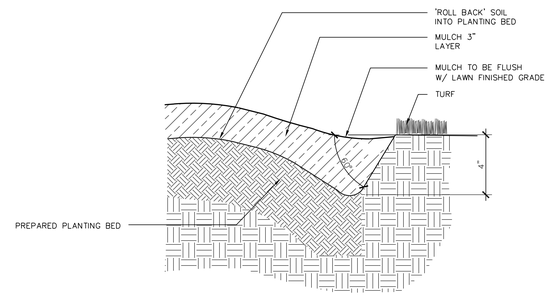


NOTE: IMMEDIATELY AFTER PLACEMENT, MOISTEN AND ROLL SOD TO ACHIEVE SMOOTH, FIRM, EVENLY SLOPED SURFACE TO CORRECT FINISH GRADES AND SLOPES SHOWN ON PLANS.

MAINTAIN ADEQUATE SOIL MOISTURE FOR ROOTING FOR A MINIMUM OF 3 WEEKS AFTER INSTALLATION OF SOD.

2 LS 3.0 SOD PROFILE WITH CONCRETE EDGE RESTRAINT SECTION SCALE: NTS

NOTE: TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS, AROUND ALL TREE MULCHRINGS, AND ALL LAWN AREAS.



3 LS 3.0 TRENCH EDGE TREATMENT SECTION SCALE: NTS

GRASSING SCHEDULE

SEPTEMBER–MAY: REBELSOD & FESCUE SEED @ 7LBS / 1000 S.F. WITH FESCUE STRAW MULCH 1" THICK
MAY–SEPTEMBER: BERMUDA SOD/SEED @ 7LBS / 1000 S.F. WITH STRAW MULCH 1" THICK
NON–MOWABLE SEED: WEEPING LOVEGRASS @ 4 LBS / ACRE, HYDROSEED WITH MULCH, BETWEEN MAY & SEPTEMBER

PLANTING SOIL MIX FOR TREES

40% NATIVE SOIL (CLAY, NO CLODS OVER 1" DIAMETER)
40% TOPSOIL (DARK, ORGANIC, SANDY CLAY LOAM)
10% COMPOSTED MANURE OR PEAT MOSS
10% RIVER SAND

PLANTING SOIL MIX FOR SHRUBS & PERENNIALS

25% NATIVE SOIL (CLAY, NO CLODS OVER 1" DIAMETER)
40% TOPSOIL (DARK, ORGANIC, SANDY CLAY LOAM)
20% COMPOSTED MANURE OR PEAT MOSS
15% RIVER SAND

PLANTING SCHEDULE

QTY.	Botanical Name	Common Name	Cal.	Size	Comment
13	Acer rubrum 'Bowhall'	Bowhall Red Maple	2"	B&B	Straight leader, no split leaders acceptable, free of disease.
3	Acer rubrum 'Red Sunset '	Red Sunset Red Maple	2"	B&B	Straight leader, no split leaders acceptable, free of disease.
10	Cupressus arizonica 'Carolina Sapphire'	Carolina Sapphire Cypress	6' ht	B&B	Full, even crown; free of disease and insects.
22	Ilex x attenuata 'Savannah'	Savannah Holly	6' ht.	B&B	Full, even crown; free of disease and insects.
8	Lagerstroemia indica 'Natchez'	Natchez Crapemyrtle	8' ht.	B&B	3-5 Canes only, full crown; free of disease and insects.
4	Lagerstroemia indica 'Souix'	Souix Crapemyrtle	8' ht.	B&B	3-5 Canes only, full crown; free of disease and insects.
7	Ulmus parvifolia	Bosque Elm	3"	B&B	Full, even crown; free of disease and insects.
6	Cleyera japonica	Cleyera		3 gal.	14"x18" crown minimum; full in pot; free of weeds, disease, and insects.
344	Ilex cornuta 'Burfordi nana'	Dwarf Burford Holly		3 gal.	14"x18" crown minimum; full in pot; free of weeds, disease, and insects.
375	Juniperus davudica	Parsoni Juniper		3 gal.	14"x10" spread; full in pot; free of weeds, disease, and insects.
65	Loropetelum x burgundy	Purple Fringe Flower		3 gal.	12"x16" crown minimum; full in pot; free of weeds, disease, and insects.
70	Nandina x. 'Gulf stream'	Gulf Stream Nandina		1 gal.	10"x12" crown minimum; full in pot; free of weeds, disease, and insects.
41	Rosa x 'Knock Out'	Red Knock-Out Rose		3 gal.	14"x14" crown minimum; full in pot; free of weeds, disease, and insects.
745	Iberis sempervirens	Candytuft		1 gal.	Full in pot; no weeds, disease, or insects.
1,010	Liriope spicata 'Silver Dragon'	Silver Dragon Lily Turf		quart	Full in pot; no weeds, disease, or insects.
850	Phlox subulata x 'Fort hill'	Fort Hill thrift		1 gal.	Full in pot; no weeds, disease, or insects.
23,550	Arundinacea festiculata	Fescue Sod		sod	Free of weeds, disease, and insects.
	Arundinacea festiculata	Fescue Seed		seed	Hydroseed.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BRODK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

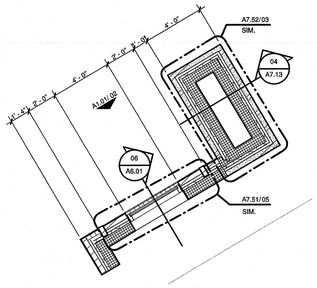
KEY PLAN

REVISION

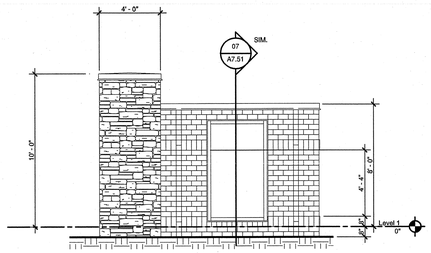
HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
LANDSCAPE DETAILS & PLANT SCHEDULE
SHEET NO.
LS 3.0

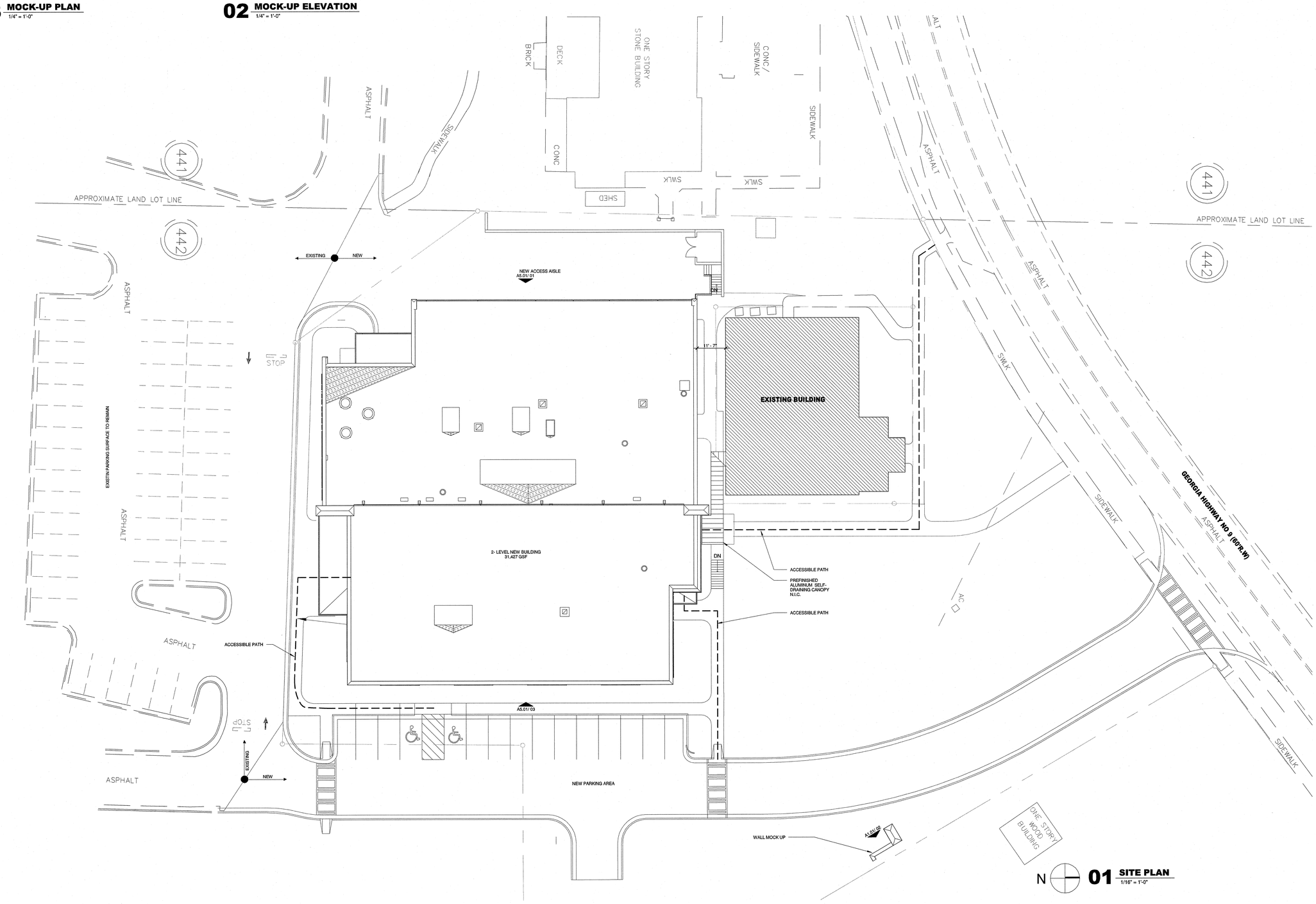
PLOT DATE:
TEMPLATE VERSION:



03 MOCK-UP PLAN
1/4" = 1'-0"



02 MOCK-UP ELEVATION
1/4" = 1'-0"



01 SITE PLAN
1/16" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1850 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

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LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
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GEORGIA STATE
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THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA012434
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

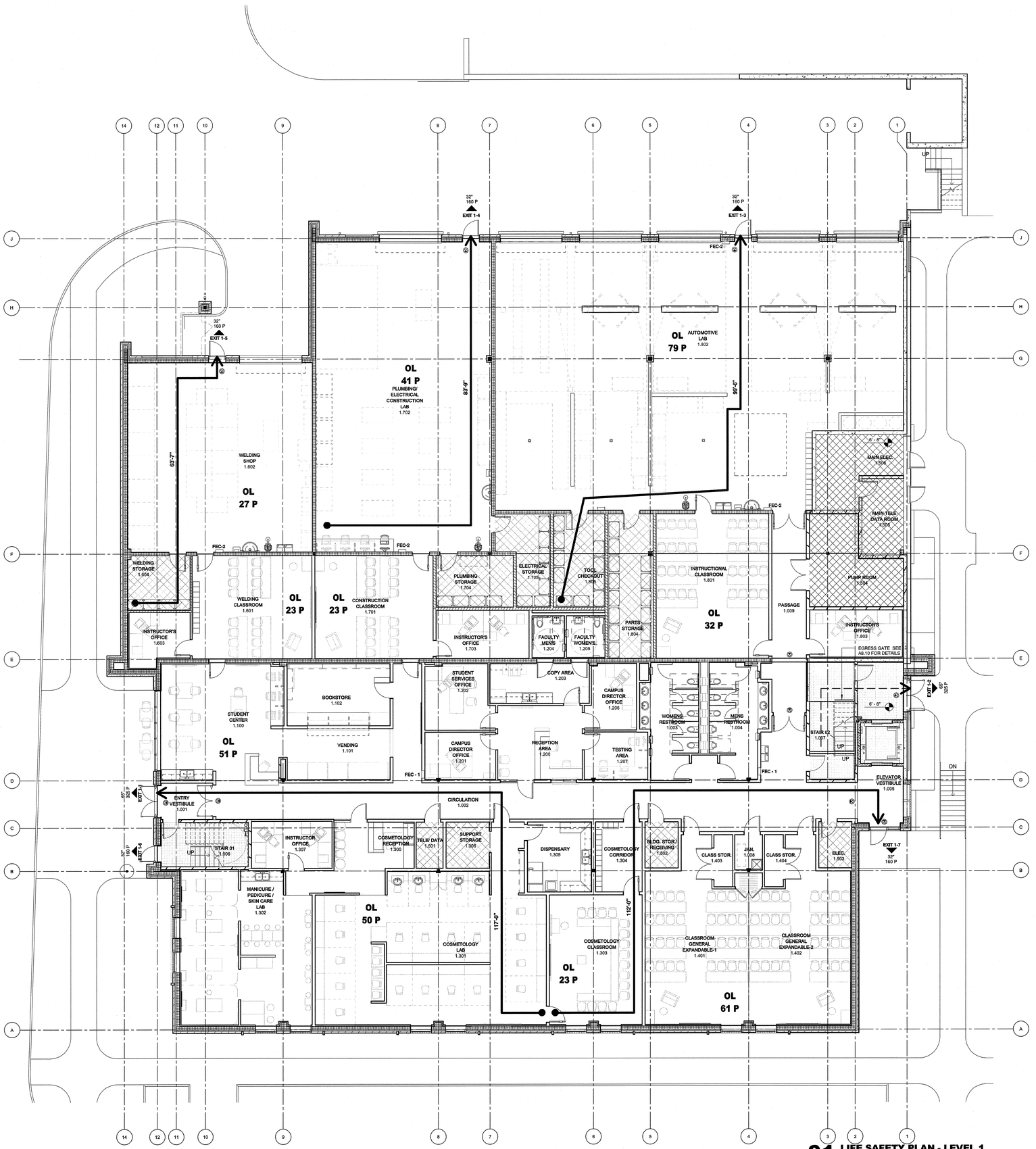
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
ARCHITECTURAL SITE PLAN

SHEET NO.
A1.01

PLOT DATE:
4/19/2011 2:27:00 PM TEMPLATE VERSION: 2.5.0.0010069



01 **LIFE SAFETY PLAN - LEVEL 1**
1/8" = 1'-0"

Building Construction Summary
The building is two stories high, steel frame, fully sprinkled Type IIB non-protected.

Occupancy Classification

1. **Occupancy Designation**
a. Education Building use is classified as Group B occupancy. — IBC. 304.1 / LSC 38.1

b. Automotive Repair, Welding, Plumbing use classified as S-1 occupancy Moderate Hazard Storage — IBC. 304.1 / LSC 6.2.2.3

c. Expanding Classroom use is incidental to business occupancy Lecture Hall - Less Concentrated Use, without fixed seating — IBC 303.1 / LSC 6.1.2.1

2. **Occupancy Separation**
a. An 1 hour occupancy separation is required between group A-3 & B. and between group S-1 & B with an automatic sprinkler system. — IBC T508.3.3

b. No occupancy separation is required between Group B & B — IBC T508.3.3

c. Accessory occupancies the building or portion thereof. Aggregate accessory occupancies shall not occupy more than 10 percent of the area of the story in which they are located and shall not exceed the tabular values in Table 503, without height and area increases in accordance with Sections 504 and 506 for such accessory occupancies — IBC 508.3.1

d. Occupancy separation need not be provided for incidental storage areas within Group B & M if — IBC T508.3.3(b)
i. Area is 10% of the floor area,
ii. Area is provided with an automatic fire-extinguishing system and is less than 3,000 s.f.
iii. Area is less than 1,000 s.f

Construction Type Designation, Maximum Area & Height
1. Area Calculation per construction type
a. Building Area -Type IIB (S-1-Most Restrictive) — IBC T503
Maximum Area Allowed before Modification (AT) = 17,500 sqft

c. Frontage Increase (IF)
IF = [F] P - 0.25] W / 30
[1,180 / 1,220 - 0.25] 30 / 30
[0.97 - 0.25] 1
IF = 0.72

d. Sprinkler Increase (IS) - For Multi-Story Buildings
IS = 2

b. Area Modification
AA = [AT + [AT x IF] + [AT x IS]]
[17,500 + [17,500 x 0.72] + [17,500 x 2]]
[17,500 + [12,600] + [35,000]]
AA = 65,100 sqft Maximum Allowed Area per Level
21,817 sqft Estimated Total Area Level 1
9,649 sqft Estimated Total Area Level 2

e. Assembly Accessory Area - 10 percent of Max. Area Before Modifications IBC T503
17,500 sqft x 0.10 = 1,750 max. Allowed Assembly Area

2. Height Restriction per Building Type
a. Building Height - Type IIB (S-1-Most Restrictive) — IBC T503
Maximum Height Allowed before Modification = (3) Levels
Maximum Height Proposed = (2) Levels

Means of Egress Calculations
Occupant Load Factor — GA 2007 Amnd. LSC T 7.3.1.2

Business Use (B)
Assembly Use (A-3)
Laboratory Use (B)
Classroom Use (B)
Storage (S-1)

Fl. Area in sq.ft. per occupant, (Gross Areas)
-100 GSF/person. Applies to entire building except as noted otherwise
-15 NSF/person. Lecture hall w/ loose tables and chairs, non-concentrated
-50 NSF/person. (Class C-Low Hazard)
-20 NSF/person.
-N/A, Ordinary hazard.

GSF = Gross Square Feet
NSF = Net Square Feet

Egress Capacity Factors
a. Where exits serve more than one story, only the occupant load of each story considered individually shall be used in computing the required capacity of the exits at that story, provided that the required egress capacity of the exit is not decreased in the direction of egress travel. (The largest egress load shall be used to set the maximum required size of the exit.) — LSC 7.3.1.4

b. **Egress Capacity Multipliers:** — LSC T 7.3.3.1

	Stairways Inches per Person	Other Egress Inches per Person
Other Uses	0.3"	0.2"

Number of Means of Egress
a. The number of means of egress from any balcony, mezzanine, story, or portion thereof shall be not less than two. — LSC 7.4.1.1
b. Occupant load more than 500, less than 1000 - not less than 3 — LSC 7.4.1.2
c. Two exits or exit access doorways from any space shall be provided In rooms with occupant load in groups A-3, B or S-1 are more than 50. — IBC 1004.2.1

Exiting Requirements
A. Occupancy Load Calculations — Based on LSC Section 7.3
Occupancy type: B / Fully Sprinkled

LEVEL ONE	OCCUPIED SF	OCCUPANTS PER AREA
General Ed. Bldg.		
General Building (Business)	8,283sf	8,283/100 = 83 Persons
Occupant Load Factor (OLF)	13,534sf	403 Persons
LEVEL ONE - TOTAL	**OCCUPIED SF** 21,817sf	**TOTAL OCCUPANTS** 486 Persons

Level One - Exit Door Width Calculation
486 Occupant Load + 243 Occupant Load Level 2 = 729 Total
729 x 0.2 = 145.8 inches / 32" (per leaf) = 4.56 min. doors required

(5) 36" door leaves required. / (8) 36" door leaves provided

LEVEL TWO	OCCUPIED SF	OCCUPANTS PER AREA
General Ed. Bldg. (Business)	5,394sf	5,394/100 = 54 Persons
Occupant Load Factor (OLF)	4,255sf	189 Persons
LEVEL TWO TOTAL	**OCCUPIED SF** 9,649sf	**TOTAL OCCUPANTS** 243 Persons

Level Two - Exit Door Width Calculation
243 Occupant Load
243 x 0.2 = 48.6 inches / 32" (per leaf) = 1.51 doors, Min. (2) doors required

(2) 36" door leaves required. / (2) 36" door leaves provided

Level Two - Exit Stair Width Calculation PER LSC Section 7.2.2.2.1(a)
243 Occupant Load
243 x 0.3 = 72.9 inches / 2 stairs = 36.5 inches per stair, Min. (2) stairs required

(2) 44" enclosed width stairs required. / (2) 46" enclosed width stairs provided.

EXIT SCHEDULE

LEVEL 1

EXIT	WIDTH	CAPACITY
1-1	65"	325 PERSONS
1-2	65"	325 PERSONS
1-3	32"	160 PERSONS
1-4	32"	160 PERSONS
1-5	32"	160 PERSONS
1-6	32"	160 PERSONS
1-7	32"	160 PERSONS
LEVEL 1 TOTAL CAPACITY		1,450 PERSONS
LEVEL 1 TOTAL REQUIRED		486 PERSONS

LEVEL 2

EXIT	WIDTH	CAPACITY
2-1	32"	160 PERSONS
2-2	32"	160 PERSONS
LEVEL 2 TOTAL CAPACITY		320 PERSONS
LEVEL 2 TOTAL REQUIRED		243 PERSONS

STAIR CAPACITIES

STAIR	WIDTH	CAPACITY
1	3'-10"	153 PERSONS
2	4'-0"	160 PERSONS
TOTAL STAIR CAPACITY		313 PERSONS
TOTAL STAIR CAPACITY REQUIRED		243 PERSONS

LIFE SAFETY NOTES

1. LSP00 - LSP.03: REFER TO FP 35:4.6. INSPECTOR SHALL ENSURE THAT THE LABS ARE EQUIPPED WITH EVACUATION AND EMERGENCY PLANS THAT ESTABLISH FIRE PREVENTION PROCEDURES AND INCLUDE: ALARM ACTIVATION; EVACUATION AND BUILDING RE-ENTRY PROCEDURES; EQUIPMENT SHUTDOWN PROCEDURES OR APPLICABLE EMERGENCY OPERATION; FIRE-FIGHTING OPERATIONS; AND NONFIRE HAZARDS.

2. GENERAL: ALL FIRE AND/ OR SMOKE BARRIERS OR WALL SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2006 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS OR WALLS. SUGGESTED WORDING '(--) HOUR FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS'.

3. FINISHES- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR B FOR ALL EXIT ENCLOSURES AND CLASS A OR CLASS B AT ALL CORRIDORS AND LOBBIES IN ACCORDANCE WITH NFPA 101:38.3.3.2 AND SECTION 10.2

4. SEE SHEET A3.01 FOR WALL FIRE & SMOKE HATCHING DESIGNATIONS

LIFE SAFETY PLAN LEGEND

OCCUPANT LOAD (PERSONS): CALCULATE BY OCCUPANT USE U.N.O.	OL ##P
FIRE EXTINGUISHER CABINET	FEC
EXIT W/ CLEAR EGRESS WIDTH AND ALLOWED CAPACITY (PERSONS) INDICATED	EXIT ##" ## P
EXIT SIGN - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION	
TOTAL TRAVEL DISTANCE TO AN EXIT	250' MAX STORAGE; 300' MAX OFFICE
STORAGE, MECH/ELEC OCCUPANCY	
BUSINESS OCCUPANCY (100 GSF/Person U.N.O.)	
EXIT	

ELEVATOR

PRIMARY FLOOR OF ELEVATOR RETURN:	ONE LEVEL
SECONDARY FLOOR OF ELEVATOR RETURN:	TWO LEVEL

GSF = GROSS

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
LIFE SAFETY PLAN - LEVEL 1

SHEET NO.
ALS.01

PLOT DATE: 4/19/2011 2:23:11 PM TEMPLATE VERSION: 2.5.0.20100909

Building Construction Summary
The building is two stories high, steel frame, fully sprinkled Type IIB non-protected.

Occupancy Classification

1. **Occupancy Designation**
   a. Education Building use is classified as Group B occupancy. — IBC. 304.1, LSC 38.1
   b. Automotive Repair, Welding, Plumbing use classified as S-1 occupancy, Moderate Hazard Storage — IBC. 304.1, LSC 6.2.2.3
   c. Expanding Classroom use is incidental to business occupancy; Lecture Hall - Less Concentrated Use, without fixed seating — IBC 303.1, LSC 6.1.2.1

2. **Occupancy Separation**
   a. An 1 hour occupancy separation is required between group A-3 & B. and between group S-1 & B with an automatic sprinkler system. — IBC T508.3.3
   b. No occupancy separation is required between Group B & B — IBC T508.3.3
   c. Accessory occupancies the building or portion thereof. Aggregate accessory occupancies shall not occupy more than 10 percent of the area of the story in which they are located and shall not exceed the tabular values in Table 503, without height and area increases in accordance with Sections 504 and 506 for such accessory occupancies — IBC 508.3.1
   d. Occupancy separation need not be provided for incidental storage areas within Group B & M if — IBC T508.3.3(b)
      i. Area is 10% of the floor area,
      ii. Area is provided with an automatic fire-extinguishing system and is less than 3,000 s.f.
      iii. Area is less than 1,000 s.f

Construction Type Designation, Maximum Area & Height

1. Area Calculation per construction type
   a. Building Area -Type IIB (S-1-Most Restrictive) — IBC T503
      Maximum Area Allowed before Modification (AT) = 17,500 sqft
   c. Frontage Increase (IF)
      IF = [F / P - 0.25] W / 30
      [1,160 / 1,220 - 0.25] 30 / 30
      [0.97 - 0.25] 1
      IF = 0.72
   d. Sprinkler Increase (IS) - For Multi-Story Buildings
      IS = 2
   b. Area Modification
      AA = [AT + [AT x IF] + [AT x IS])
      [17,500 + [17,500 x 0.72] + [17,500 x 2])
      [17,500 + [12,600] + [35,000]]
      AA = 65,100 sqft Maximum Allowed Area per Level
      21,817 sqft Estimated Total Area Level 1
      9,649 sqft Estimated Total Area Level 2
   e. Assembly Accessory Area - 10 percent of Max. Area Before Modifications — IBC T503
      17,500 sqft x 0.10 = 1,750 max. Allowed Assembly Area

2. Height Restriction per Building Type
   a. Building Height - Type IIB (S-1-Most Restrictive) — IBC T503
      Maximum Height Allowed before Modification = (3) Levels
      Maximum Height Proposed = (2) Levels

Means of Egress Calculations
Occupant Load Factor — GA 2007 Amnd. LSC T 7.3.1.2

	Ft. Area in sq.ft. per occupant, (Gross Areas)
Business Use (B)	-100 GSF/person. Applies to entire building except as noted otherwise
Assembly Use (A-3)	-15 NSF/person. Lecture hall w/ loose tables and chairs, non-concentrated
Laboratory Use (B)	-50 NSF/person. (Class C-Low Hazard)
Classroom Use (B)	-20 NSF/person.
Storage (S-1)	-N/A, Ordinary hazard.

GSF = Gross Square Feet
NSF = Net Square Feet

Egress Capacity Factors
a. Where exits serve more than one story, only the occupant load of each story considered individually shall be used in computing the required capacity of the exits at that story, provided that the required egress capacity of the exit is not decreased in the direction of egress travel. (The largest egress load shall be used to set the maximum required size of the exit.) — LSC 7.3.1.4
b. **Egress Capacity Multipliers:** — LSC T 7.3.3.1

	Stairways Inches per Person	**Other Egress Inches per Person**
Other Uses	0.3"	0.2"

Number of Means of Egress
a. The number of means of egress from any balcony, mezzanine, story, or portion thereof shall be not less than two. — LSC 7.4.1.1
b. Occupant load more than 500, less than 1000 - not less than 3 — LSC 7.4.1.2
c. Two exits or exit access doorways from any space shall be provided In rooms with occupant load in groups A-3, B or S-1 are more than 50. — IBC 1004.2.1

Exiting Requirements
A. Occupancy Load Calculations — Based on LSC Section 7.3
Occupancy type: B / Fully Sprinkled

LEVEL ONE	**OCCUPIED SF**	**OCCUPANTS PER AREA**
General Ed. Bldg.		
General Building (Business)	8,263sf	8,263/100 = 83 Persons
Occupant Load Factor (OLF)	13,554sf	403 Persons
LEVEL ONE - TOTAL	**OCCUPIED SF**	**TOTAL OCCUPANTS**
	21,817sf	486 Persons

Level One - Exit Door Width Calculation
486 Occupant Load + 243 Occupant Load Level 2 = 729 Total
729 x 0.2 = 145.8 inches / 32" (per leaf) = 4.56 min. doors required

(5) 36" door leaves required. / (8) 36" door leaves provided

LEVEL TWO	**OCCUPIED SF**	**OCCUPANTS PER AREA**
General Ed. Bldg. (Business)	5,394sf	5,394/100 = 54 Persons
Occupant Load Factor (OLF)	4,255sf	189 Persons
LEVEL TWO TOTAL	**OCCUPIED SF**	**TOTAL OCCUPANTS**
	9,649sf	243 Persons

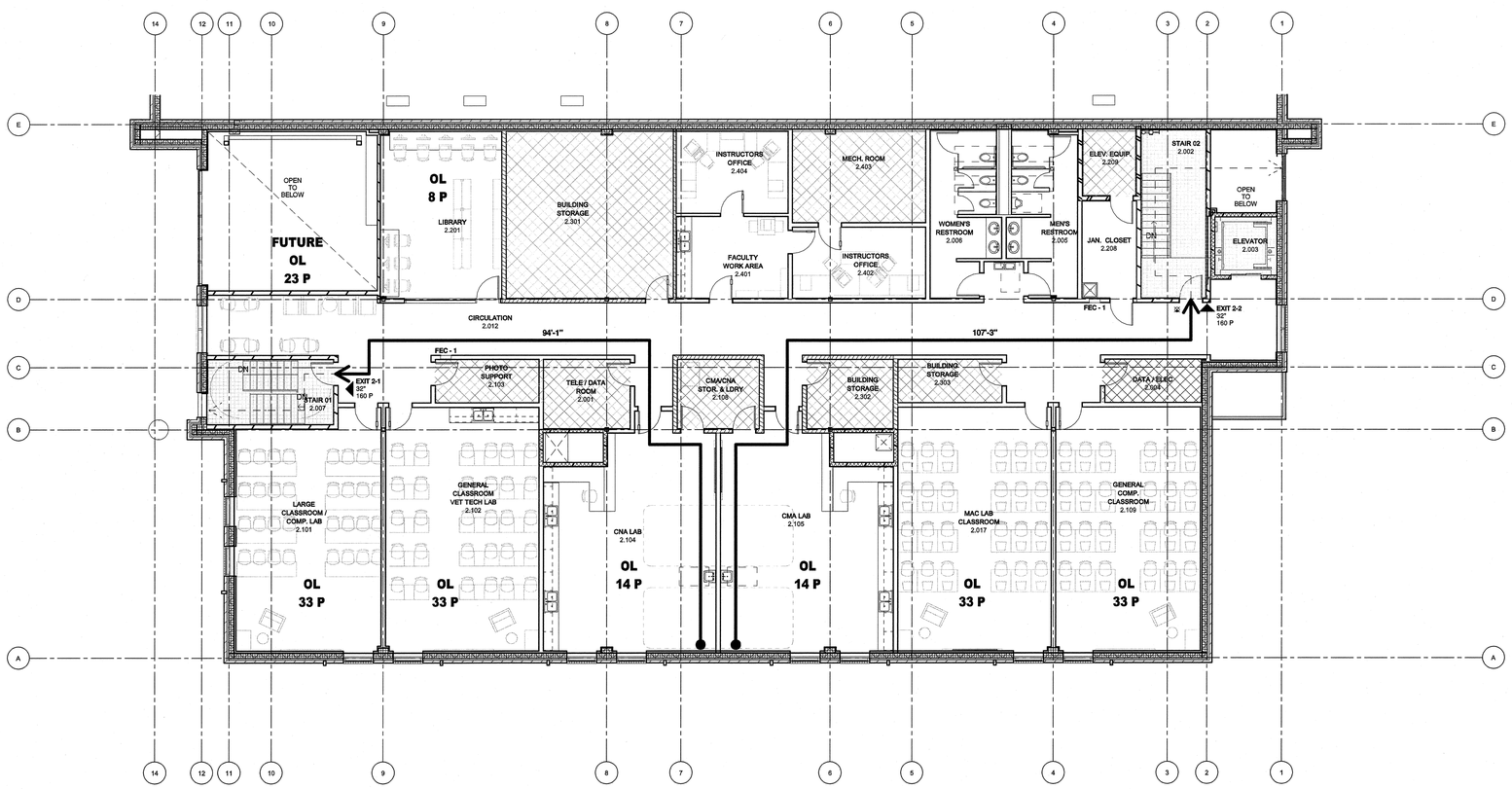
Level Two - Exit Door Width Calculation
243 Occupant Load
243 x 0.2 = 48.6 inches / 32" (per leaf) = 1.51 doors, Min. (2) doors required

(2) 36" door leaves required. / (2) 36" door leaves provided

Level Two - Exit Stair Width Calculation PER LSC Section 7.2.2.2.1(a)
243 Occupant Load
243 x 0.3 = 72.9 inches / 2 stairs = 36.5 inches per stair, Min. (2) stairs required

(2) 44" enclosed width stairs required. / (2) 46" enclosed width stairs provided.

EXIT SCHEDULE			
LEVEL 1			
EXIT	WIDTH	CAPACITY	
1-1	68"	325 PERSONS	
1-2	68"	325 PERSONS	
1-3	32"	160 PERSONS	
1-4	32"	160 PERSONS	
1-5	32"	160 PERSONS	
1-6	32"	160 PERSONS	
1-7	32"	160 PERSONS	
LEVEL 1 TOTAL CAPACITY			1,450 PERSONS
LEVEL 1 TOTAL REQUIRED			486 PERSONS
LEVEL 2			
EXIT	WIDTH	CAPACITY	
2-1	32"	160 PERSONS	
2-2	32"	160 PERSONS	
LEVEL 2 TOTAL CAPACITY			320 PERSONS
LEVEL 2 TOTAL REQUIRED			243 PERSONS
STAIR CAPACITIES			
STAIR	WIDTH	CAPACITY	
1	3'-10"	153 PERSONS	
2	4'-0"	160 PERSONS	
TOTAL STAIR CAPACITY			313 PERSONS
TOTAL STAIR CAPICITY REQUIRED			243 PERSONS



01 LIFE SAFETY PLAN - LEVEL 2
1/8" = 1'-0"

LIFE SAFETY NOTES

1. LSP00 - LSP.03: REFER TO FP 35.4.6, INSPECTOR SHALL ENSURE THAT THE LABS ARE EQUIPPED WITH EVACUATION AND EMERGENCY PLANS THAT ESTABLISH FIRE PREVENTION PROCEDURES AND INCLUDE: ALARM ACTIVATION; EVACUATION AND BUILDING RE-ENTRY PROCEDURES; EQUIPMENT SHUTDOWN PROCEDURES OR APPLICABLE EMERGENCY OPERATION; FIRE-FIGHTING OPERATIONS; AND NONFIRE HAZARDS.

2. GENERAL: ALL FIRE AND/ OR SMOKE BARRIERS OR WALL SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2006 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS OR WALLS. SUGGESTED WORDING '(--) HOUR FIRE AND SMOKE BARRIER-PROTECT ALL OPENINGS'.

3. FINISHES- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR B FOR ALL EXIT ENCLOSURES AND CLASS A OR CLASS B AT ALL CORRIDORS AND LOBBIES IN ACCORDANCE WITH NFPA 101:38.3.3.2 AND SECTION 10.2

4. SEE SHEET A3.01 FOR WALL FIRE & SMOKE HATCHING DESIGNATIONS

LIFE SAFETY PLAN LEGEND

OCCUPANT LOAD (PERSONS); CALCULATE BY OCCUPANT USE U.N.O.	OL ##P	STORAGE, MECH/ELEC OCCUPANCY	
FIRE EXTINGUISHER CABINET	FEC	BUSINESS OCCUPANCY (100 GSF/Person U.N.O.)	
EXIT W/ CLEAR EGRESS WIDTH AND ALLOWED CAPACITY (PERSONS) INDICATED	EXIT ##" ## P		
EXIT SIGN - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION		EXIT	
TOTAL TRAVEL DISTANCE TO AN EXIT	250' MAX STORAGE; 300' MAX OFFICE		

ELEVATOR

PRIMARY FLOOR OF ELEVATOR RETURN:	ONE LEVEL
SECONDARY FLOOR OF ELEVATOR RETURN:	TWO LEVEL

GSF = GROSS

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
GEORGIA REGISTERED ARCHITECT
019476

KEY PLAN

REVISION

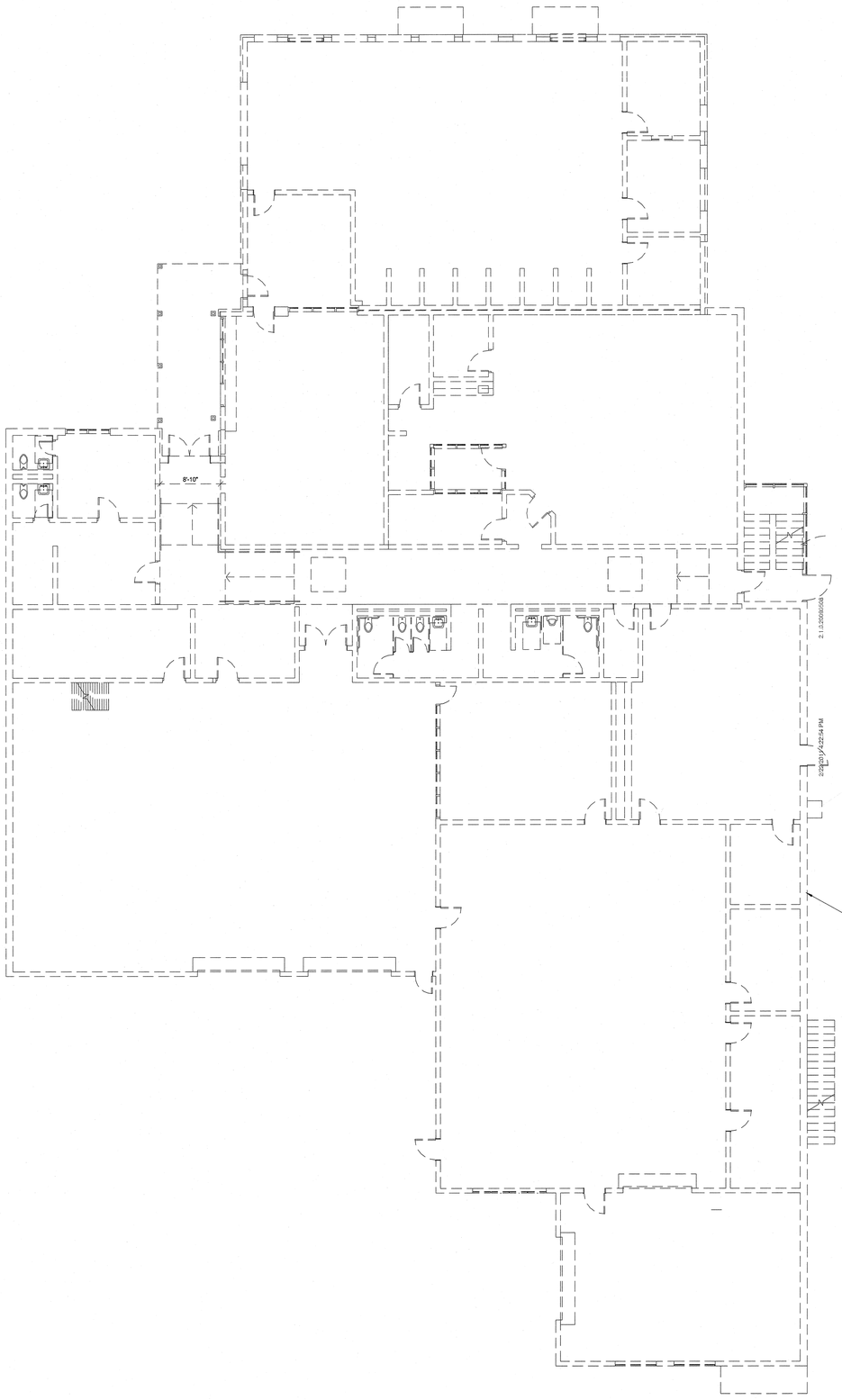
NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
LIFE SAFETY PLAN - LEVEL 2

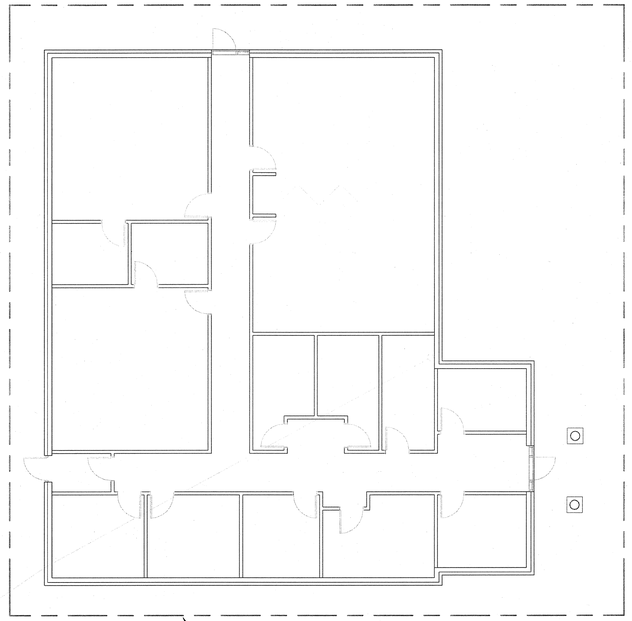
SHEET NO.
ALS.02

PLOT DATE: 4/18/2011 2:31:15 PM TEMPLATE VERSION: 2.5.0.20100909



ADULT EDUCATION BUILDING

N.I.C.



DEMOLITION LEGEND

WALLS TO BE REMOVED

DOORS TO BE REMOVED

GENERAL DEMOLITION NOTES

1. EXISTING STRUCTURE TO BE REMOVED. REMOVE SLABS, FOOTINGS AND MEP BELOW EXISTING STRUCTURE AND CAP LINES AS NOTED ON CD.01. SCRAPE SITE CLEAN TO CREATED NEW BUILDING PAD. PROJECT IS TO BE A NEW STRUCTURE.
2. EXISTING ADULT ED. BUILDING TO REMAIN. BUILDING IS TO REMAIN IN OPERATION DURING CONSTRUCTION.
3. EXISTING STONE WALL AND SITE WORK ON ADJACENT PROPERTY IS TO REMAIN. STONE WALL WILL BE ENCAPSULATED IN NEW GRADING

N

01 DEMOLITION PLAN

1/8" = 1'-0"

PLOT DATE:
4/19/2011 2:31:03 PM TEMPLATE VERSION: 2.5.0.20100909

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ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA015214
REGISTERED ARCHITECT
19 APR 11

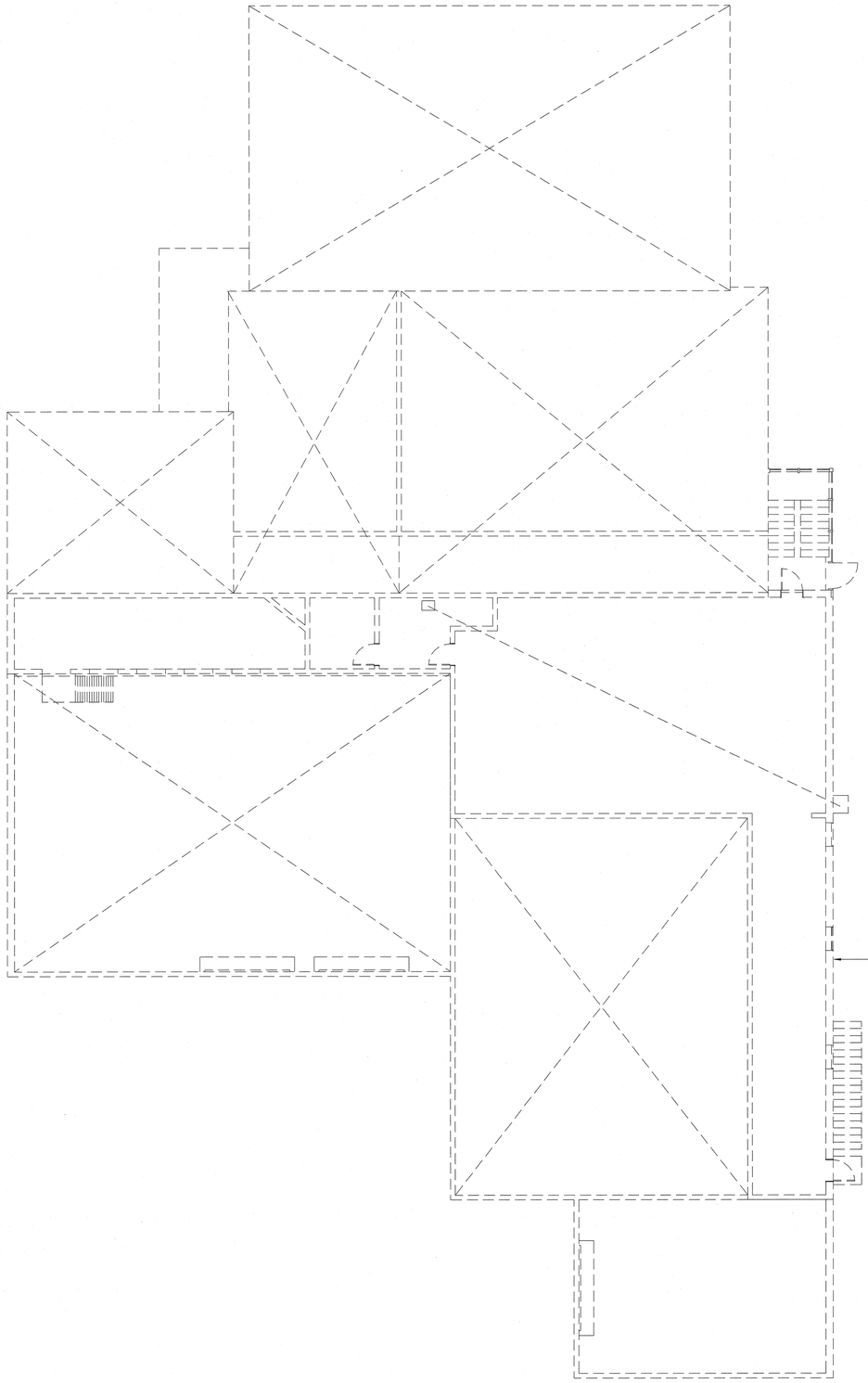
KEY PLAN

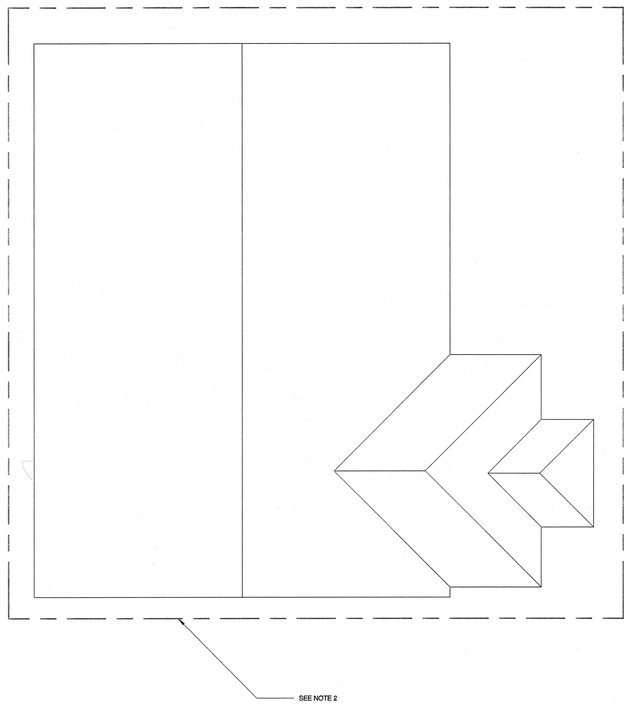
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
DEMOLITION FLOOR PLAN

SHEET NO.
AD.01





DEMOLITION LEGEND

WALLS TO BE REMOVED

DOORS TO BE REMOVED

GENERAL DEMOLITION NOTES

1. EXISTING STRUCTURE TO BE REMOVED. REMOVE SLABS, FOOTINGS AND MEP BELOW EXISTING STRUCTURE AND CAP LINES AS NOTED ON CD.01. SCRAPE SITE CLEAN TO CREATED NEW BUILDING PAD. PROJECT IS TO BE A NEW STRUCTURE.
2. EXISTING ADULT ED. BUILDING TO REMAIN. BUILDING IS TO REMAIN IN OPERATION DURING CONSTRUCTION.
3. EXISTING STONE WALL AND SITE WORK ON ADJACENT PROPERTY IS TO REMAIN. STONE WALL WILL BE ENCAPSULATED IN NEW GRADING

N

01 DEMOLITION FLOOR PLAN LEVEL 2

1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
GEORGIA REGISTERED NO. RA013744
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

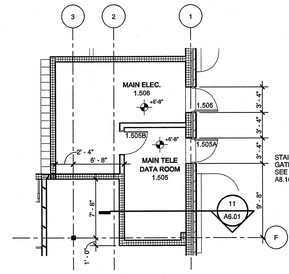
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

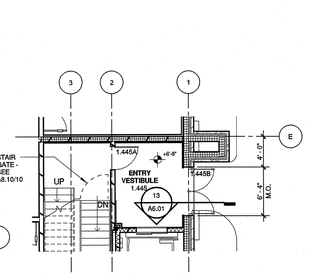
SHEET TITLE
DEMOLITION FLOOR PLAN - LEVEL 2
SHEET NO.
AD.02

PLOT DATE: 4/19/2011 2:31:04 PM TEMPLATE VERSION: 2.6.0.20100809

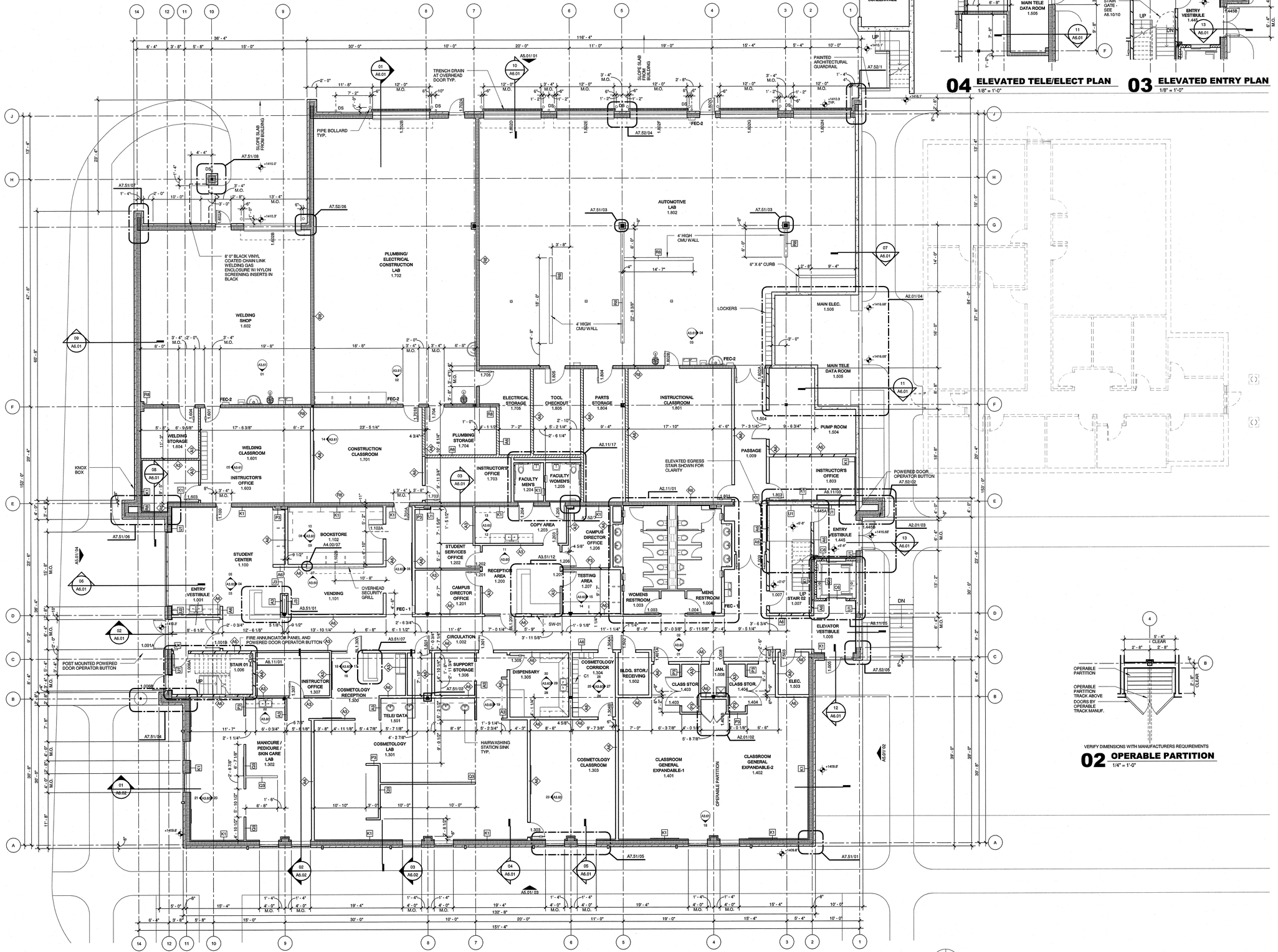
GENERAL NOTES:
1. REFERENCE SHEET A3.01 FOR PARTITION TYPES.
2. REFERENCE A4 SERIES FOR REFLECTED CEILING PLANS
3. REFERENCE A3.32 FOR BORROWED LITE DETAILS
4. SEE SHEET A3.31 FOR TYPICAL DOOR LOCATION INFORMATION



04 ELEVATED TELE/ELECT PLAN
1/8" = 1'-0"



03 ELEVATED ENTRY PLAN
1/8" = 1'-0"



VERIFY DIMENSIONS WITH MANUFACTURERS REQUIREMENTS

02 OPERABLE PARTITION
1/4" = 1'-0"

01 FLOOR PLAN LEVEL 1
1/8" = 1'-0" F.F.E. = +1410.33' U.N.O. = 100'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA021813
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

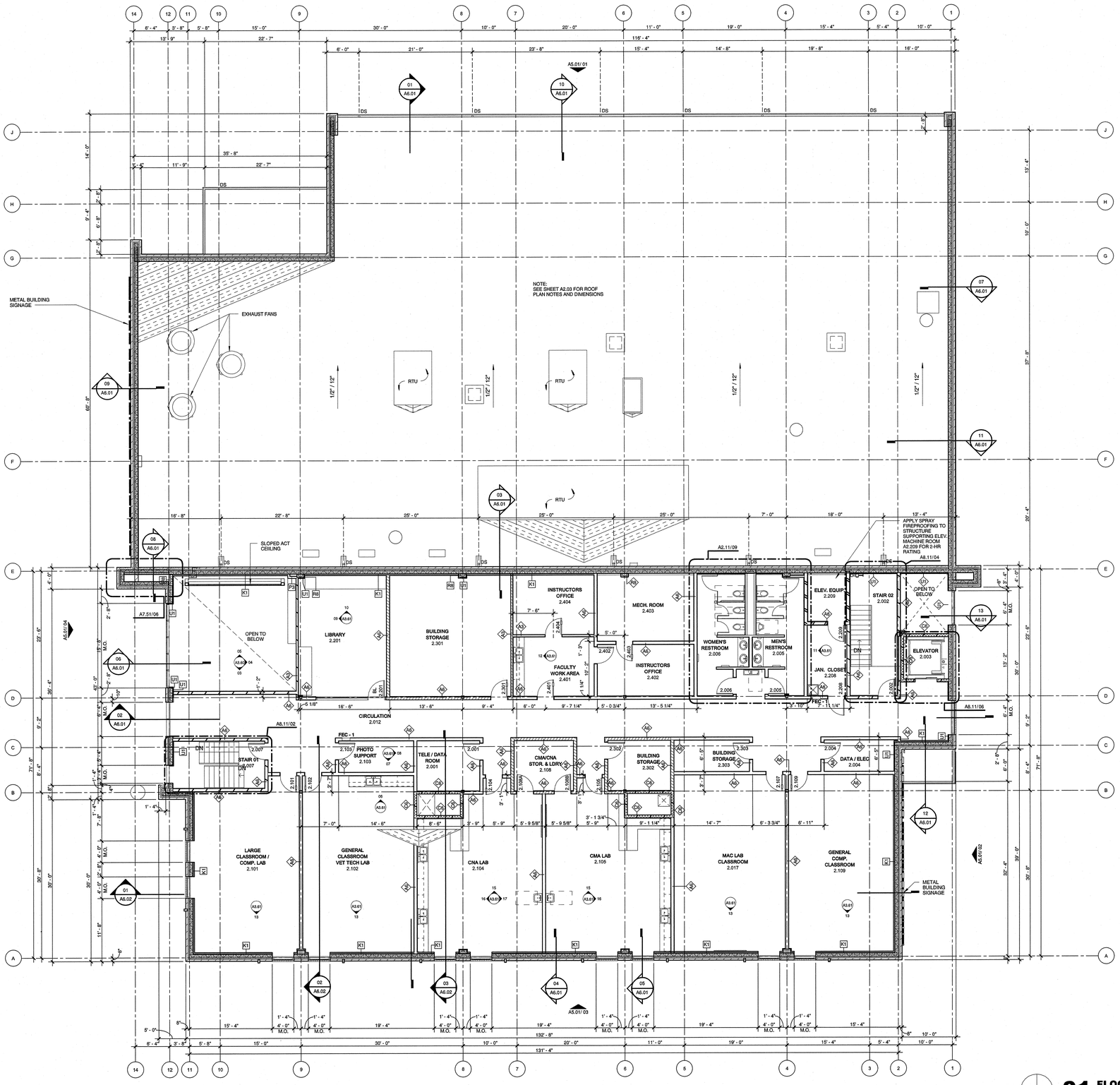
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FLOOR PLAN
LEVEL 1

SHEET NO.
A2.01

PLOT DATE:
4/19/2011 2:27:08 PM TEMPLATE VERSION: 2.0.0.20100909

GENERAL NOTES:
1. REFERENCE SHEET A0.01 FOR PARTITION TYPES.
2. REFERENCE A4 SERIES FOR REFLECTED CEILING PLANS
3. REFERENCE A9.32 FOR BORROWED LITE DETAILS
4. SEE SHEET A9.31 FOR TYPICAL DOOR LOCATION INFORMATION



N **01 FLOOR PLAN LEVEL 2**
1/8" = 1'-0" F.F.E. = +1430.33' U.N.O.

HKS

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HKS, INC.
191 PEACHTREE STREET NE
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ATLANTA, GA 30303

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EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

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WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA013214
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

ISSUE
BID SET

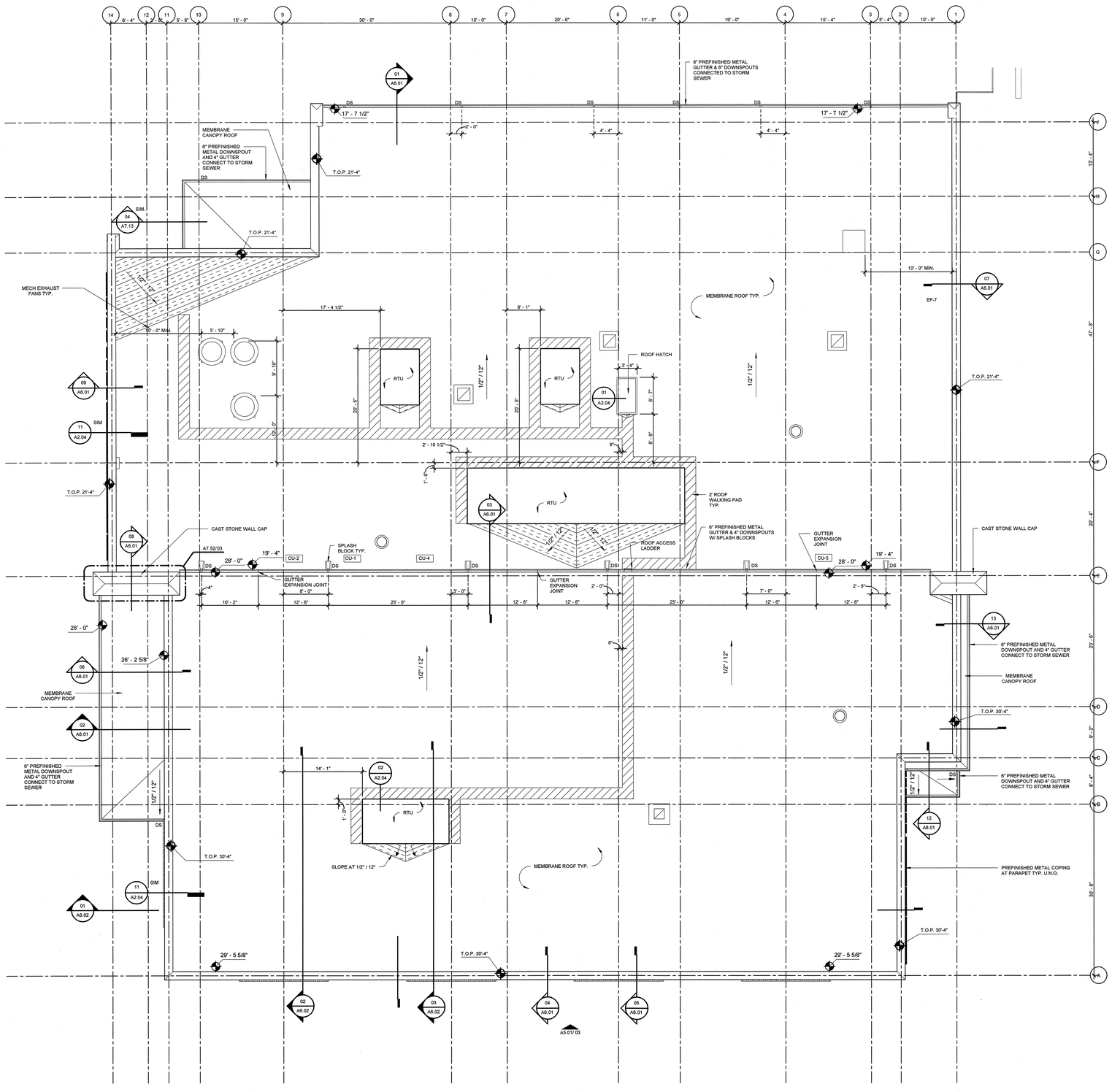
SHEET TITLE
FLOOR PLAN LEVEL 2

SHEET NO.
A2.02

PLOT DATE:
4/19/2011 2:27:12 PM
TEMPLATE VERSION: 2.5.0.20100609

NOTES:

1. TOP OF GUTTER SHALL BE -1" MIN. FROM ROOF EDGE U.N.O.
2. GUTTERS ARE SLOPED AT 1/8" PER FOOT MIN.
3. DS: 6X6 DOWNSPOUT AT LOW ROOF 4X4 AT HIGH ROOF - AREA SERVED BY 6X6 DS = 13,500SF
4. RAINFALL RATE BASED ON 4" PER HOUR BASED ON IPC 1106.1; GUTTER AND DOWNSPOUT SIZES ARE BASED ON IPC TABLES 1106.2 AND 1106.6
5. SEE A2.04 FOR TYPICAL ROOF DETAILS.
6. DOWNSPOUTS ARE POSITIONED PER FLOOR PLANS
7. U.N.O.
8. HIGHPOINT BETWEEN DOWN SPOUTS IS TO BE CENTERED BETWEEN DOWNSPOUTS U.N.O. ALL ROOF ELEVATIONS ARE TO BOTTOM OF ROOF DECKING UNLESS NOTED OTHERWISE



N **01 ROOF PLAN** 1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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MARK B. HULTS
CERTIFICATE NO. RA021214
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
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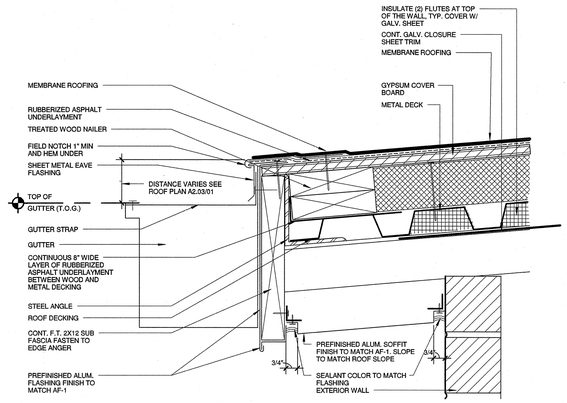
BID SET

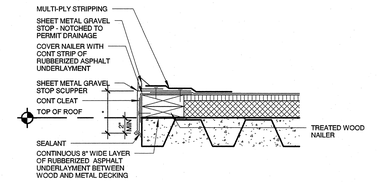
SHEET TITLE
ROOF PLAN

SHEET NO.
A2.03

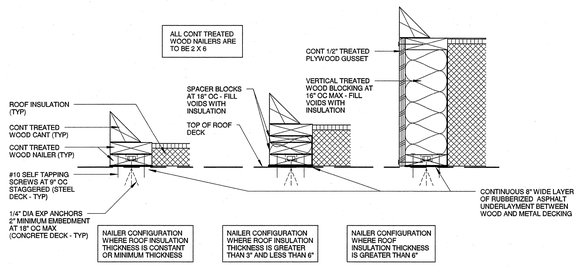
PLOT DATE: 4/19/2011 1:57:07 PM TEMPLATE VERSION: 2.5.0.20100809



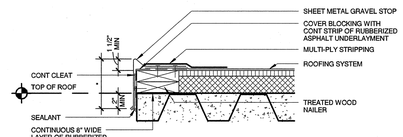
DOWNSLOPE
06 PERIMETER WITH GUTTER
3" = 1'-0"



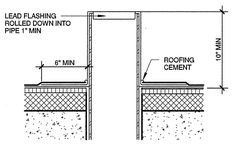
05 GRAVEL STOP SCUPPER
1 1/2" = 1'-0"



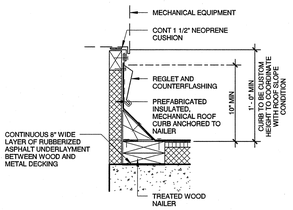
TREATED WOOD
09 NAILER CONFIGURATION
1 1/2" = 1'-0"



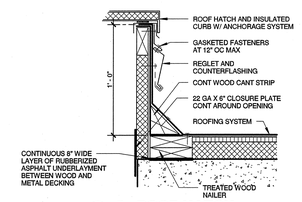
04 GRAVEL STOP
1 1/2" = 1'-0"



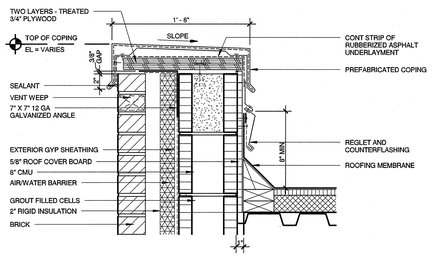
03 VENT PIPE PENETRATION
1 1/2" = 1'-0"



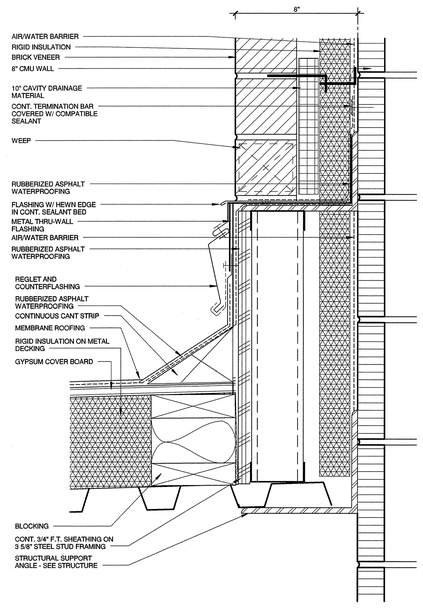
02 EQUIPMENT CURB
1 1/2" = 1'-0"



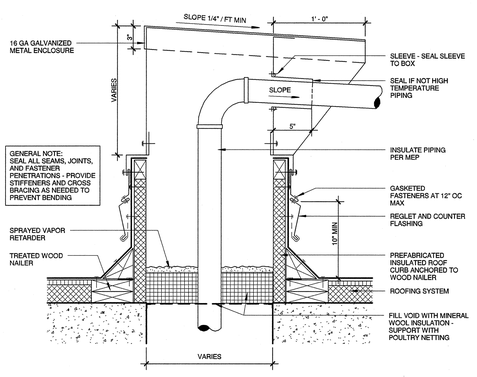
01 ROOF HATCH
1 1/2" = 1'-0"



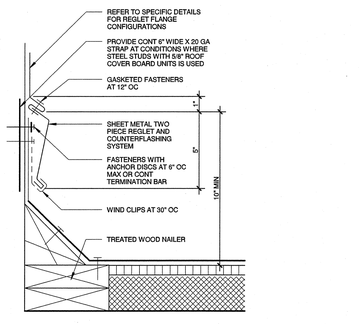
METAL COPING DETAIL - 11 BITUMINOUS ROOFING
1 1/2" = 1'-0"



10 ROOF TRANSITION DETAIL
3" = 1'-0"



08 MULTIPLE PIPE / CONDUIT PENETRATION BOX
1 1/2" = 1'-0"



07 REGLET AND COUNTERFLASHING
3" = 1'-0"

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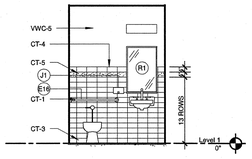
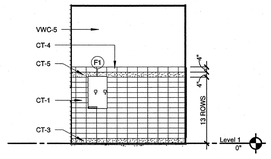
SHEET TITLE
BITUMINOUS ROOF DETAILS 01

SHEET NO.
A2.04

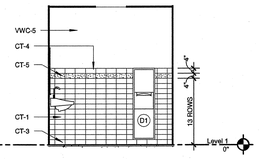
PLOT DATE:
4/19/2011 2:27:17 PM TEMPLATE VERSION: 2.5.0.0010069



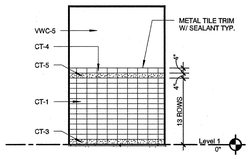
23 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



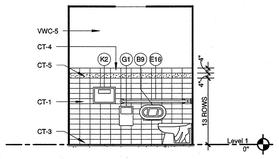
21 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



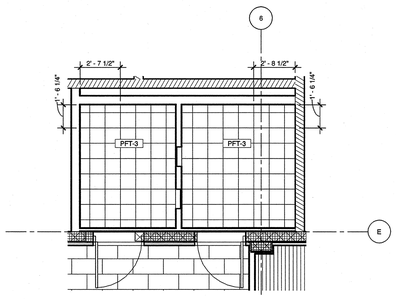
24 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



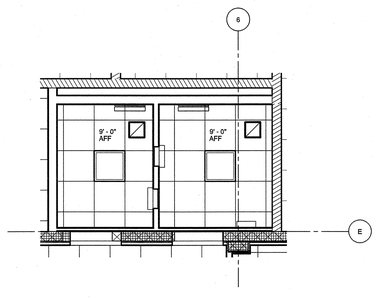
22 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



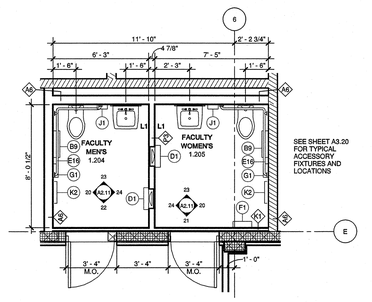
20 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



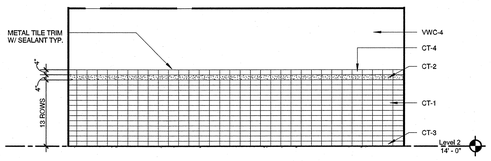
19 ENLARGED FLOOR FINISH PLAN
1/4" = 1'-0"



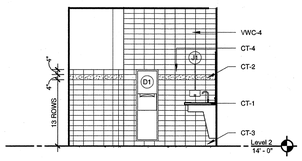
18 ENLARGED TOILET RCP
1/4" = 1'-0"



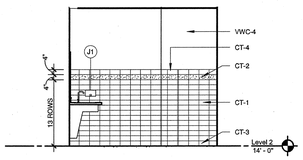
17 ENLARGED TOILET FLOOR PLAN
1/4" = 1'-0"



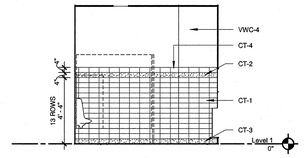
16 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



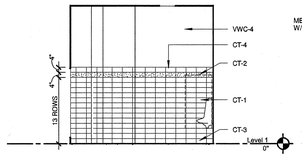
15 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



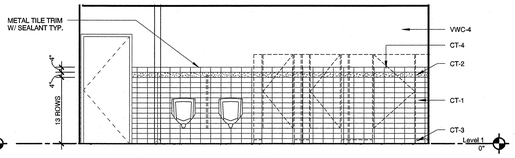
14 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



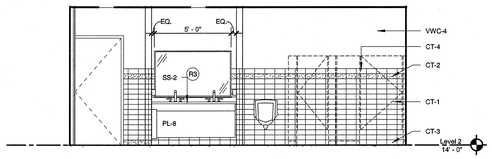
08 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



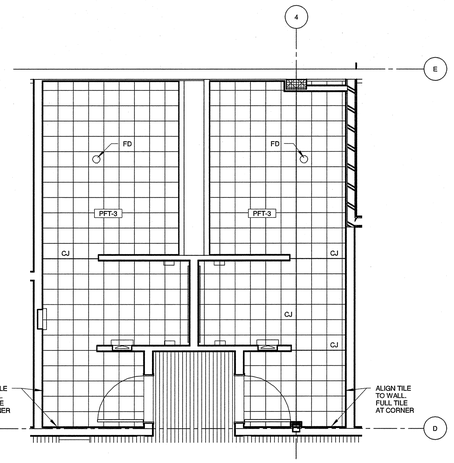
07 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



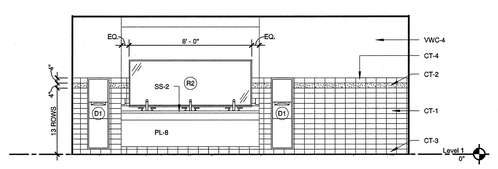
06 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



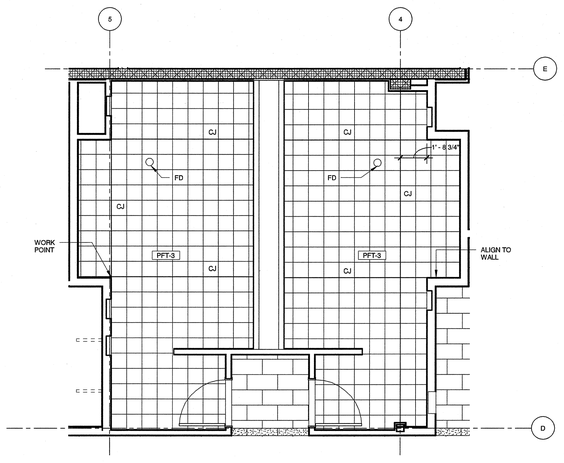
13 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



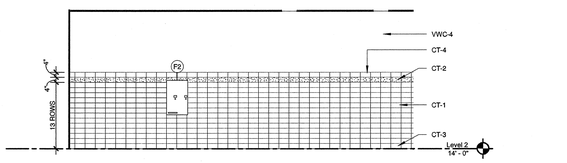
11 ENLARGED FLOOR FINISH PLAN
1/4" = 1'-0"



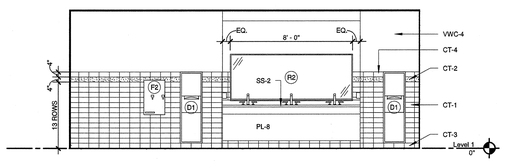
05 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



03 ENLARGED FLOOR FINISH PLAN
1/4" = 1'-0"



12 ENLARGED TOILET ELEVATION
1/4" = 1'-0"



04 ENLARGED TOILET ELEVATION
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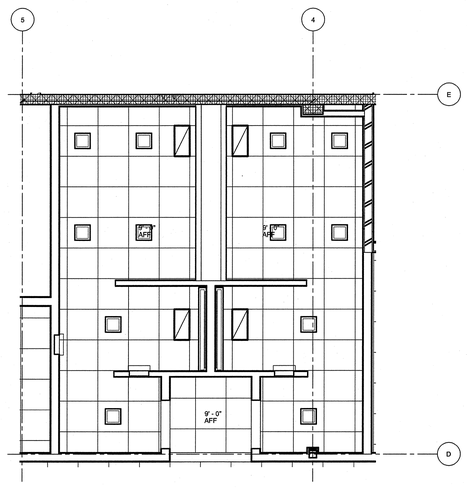
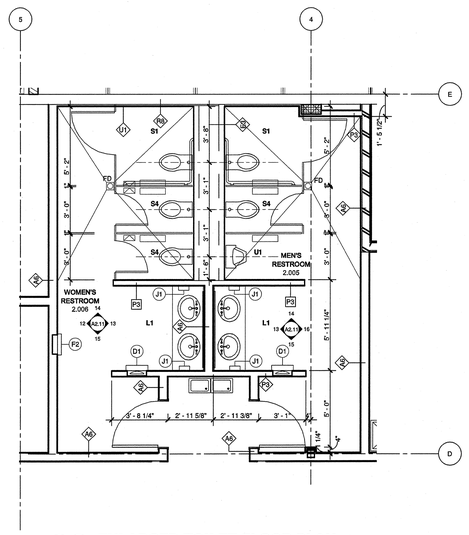
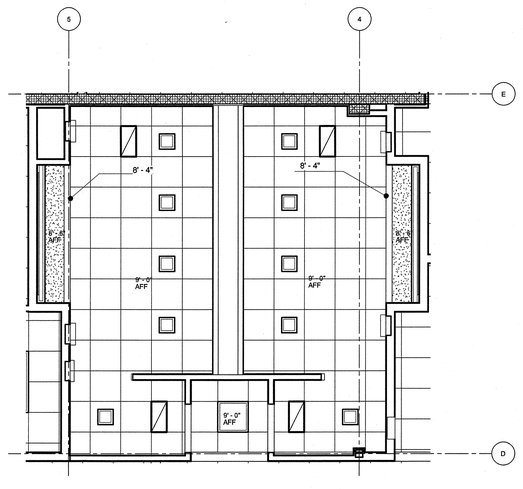


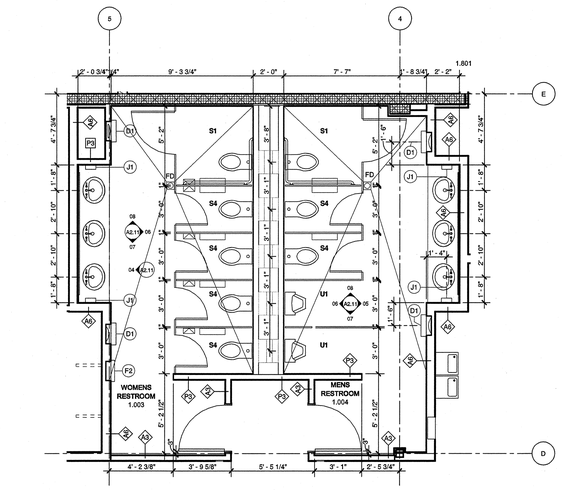
10 ENLARGED TOILET RCP
1/4" = 1'-0"



09 ENLARGED TOILET FLOOR PLAN
1/4" = 1'-0"



02 ENLARGED TOILET RCP
1/4" = 1'-0"



01 ENLARGED TOILET FLOOR PLAN
1/4" = 1'-0"

NOTE:
SEE A3.20 FOR TOILET ACCESSORY AND STANDARDS INFORMATION

PLOT DATE: 4/19/2011 1:27:31 PM TEMPLATE VERSION: 2.5.0.0.10069

HKS

ARCHITECT
HKS, INC.
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SUITE 5000
ATLANTA, GA 30303

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STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. 026017
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
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DATE
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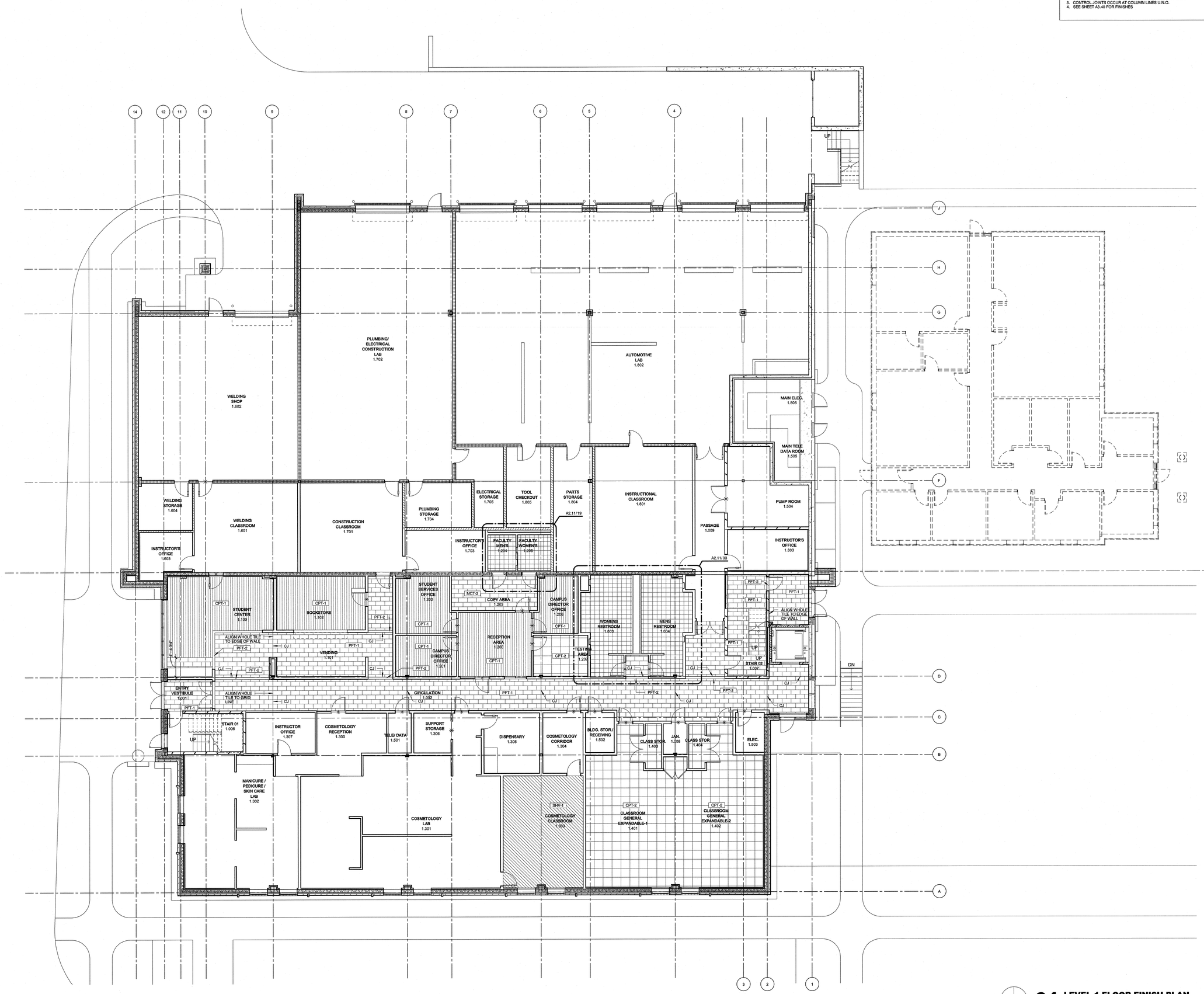
ISSUE
BID SET

SHEET TITLE
ENLARGED TOILET, FINISH, RCP PLANS AND ELEVATIONS

A2.11

NOTES:

1. REFERENCE SHEET A3.41 FOR FLOOR FINISHES NOT SHOWN ON PLAN
2. SEE LEGEND ON A3.41 FOR FINISH FLOORING TRANSITIONS.
3. CONTROL JOINTS OCCUR AT COLUMN LINES U.N.O.
4. SEE SHEET A3.40 FOR FINISHES



N **01 LEVEL 1 FLOOR FINISH PLAN**
1/8" = 1'-0"

HKS

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FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA019274
REGISTERED ARCHITECT
(7 APR. 11)

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

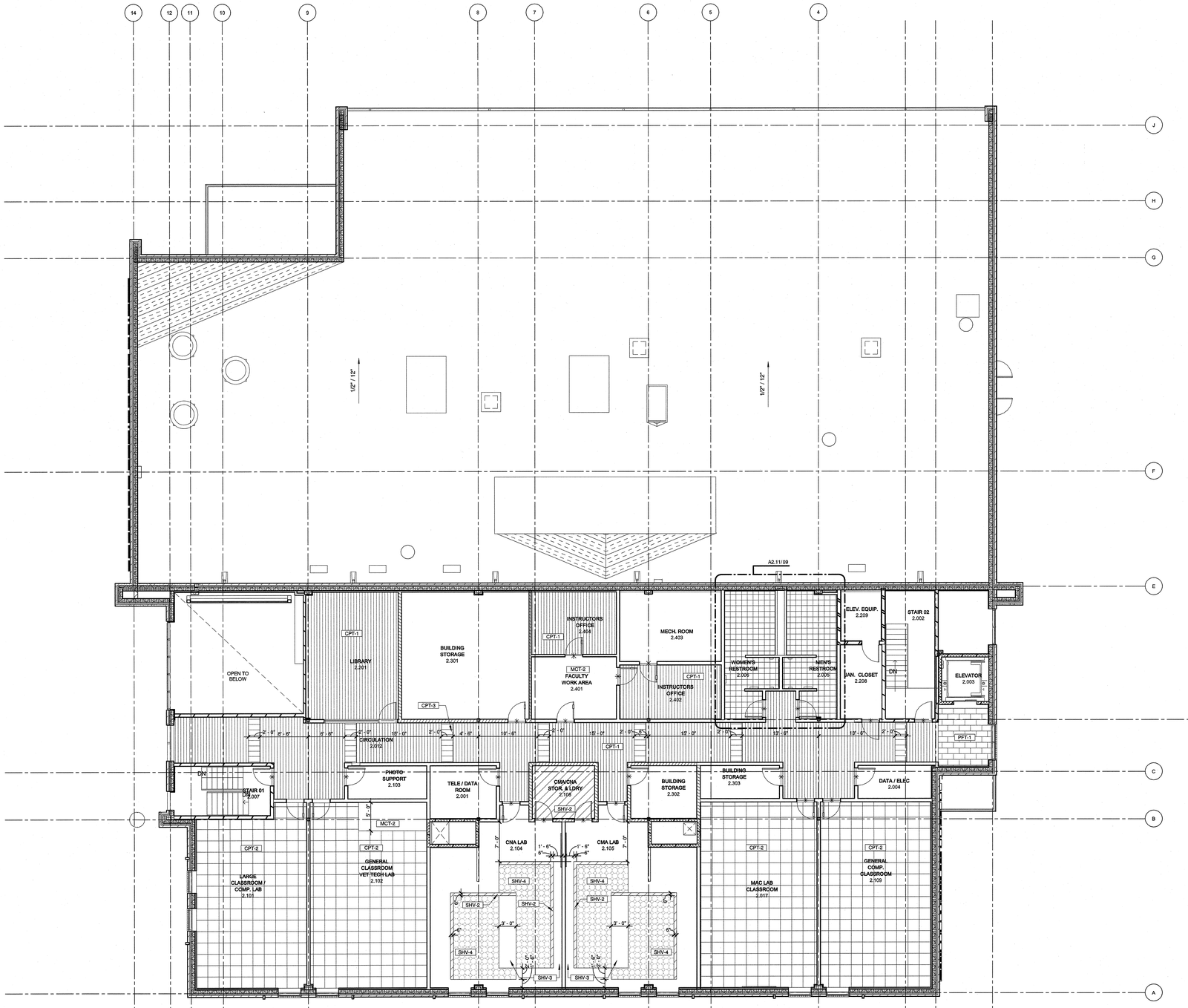
SHEET TITLE
FLOOR FINISH PLAN - LEVEL 1

SHEET NO.
A2.21

PLOT DATE:
4/19/2011 2:27:26 PM TEMPLATE VERSION: 2.5.0.20100609

NOTES:

1. REFERENCE SHEET A3.41 FOR FLOOR FINISHES NOT SHOWN ON PLAN
2. SEE LEGEND ON A3.41 FOR FINISH FLOORING TRANSITIONS.
3. CONTROL JOINTS OCCUR AT COLUMN LINES U.N.O.
4. SEE SHEET A3.40 FOR FINISHES



N

01 LEVEL 2 FLOOR FINISH PLAN

1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA012174
REGISTERED ARCHITECT
19 APR. 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FLOOR FINISH PLAN - LEVEL 2

SHEET NO.
A2.22

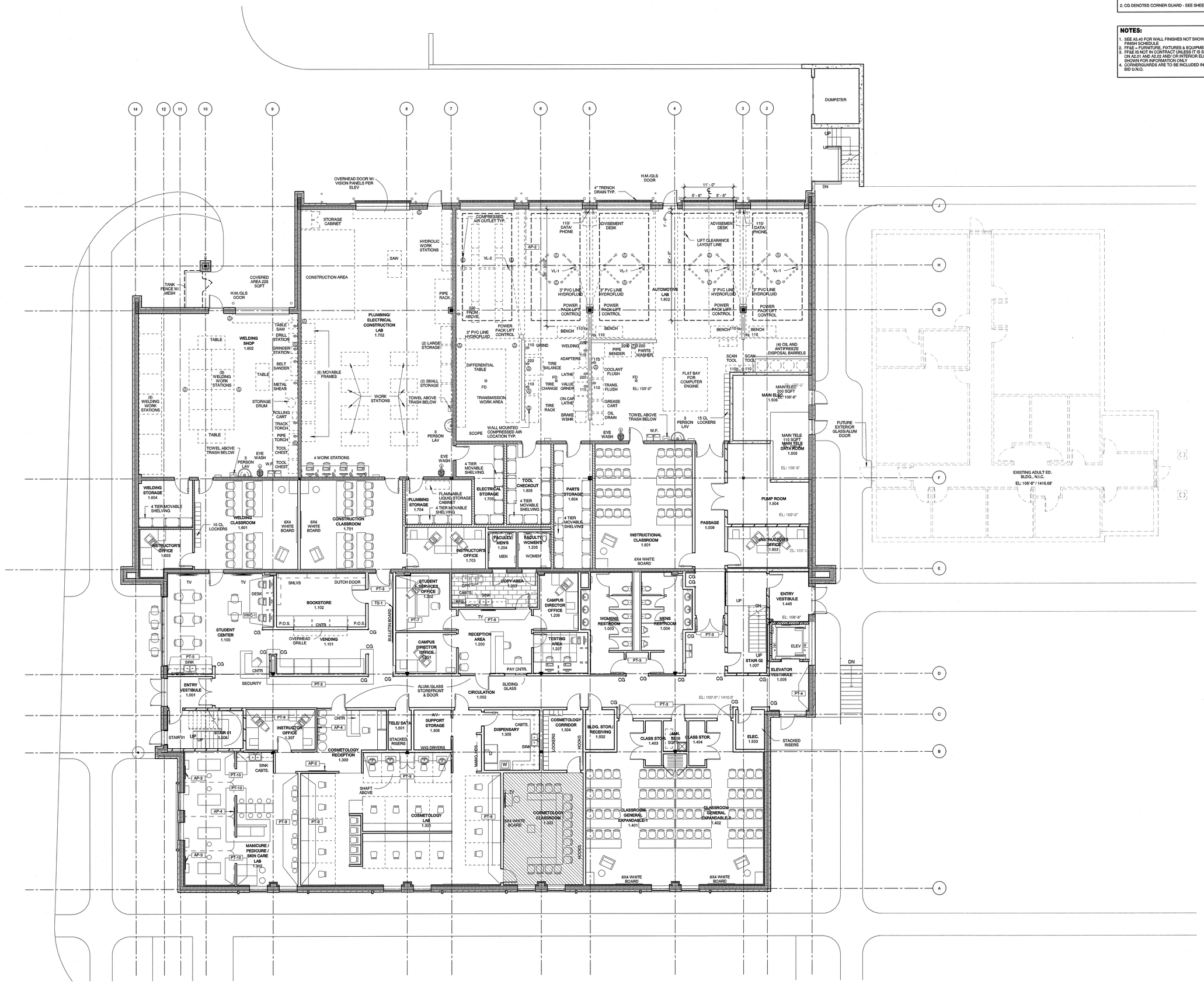
PLOT DATE:
4/19/2011 2:27:40 PM TEMPLATE VERSION: 2.5.0.20100809

NOTES:

1. SEE A3.41 FOR WALL FINISHES NOT SHOWN AND FINISH SCHEDULE
2. CG DENOTES CORNER GUARD - SEE SHEET A3.40

NOTES:

1. SEE A3.40 FOR WALL FINISHES NOT SHOWN AND FINISH SCHEDULE
2. FF&E = FURNITURE, FIXTURES & EQUIPMENT
3. FF&E IS NOT IN CONTRACT UNLESS IT IS SHOWN ON A2.01 AND A2.02 AND/ OR INTERIOR ELEVATIONS, SHOWN FOR INFORMATION ONLY
4. CORNERGUARDS ARE TO BE INCLUDED IN THE BASE BID U.N.O.



N

01 WALL FINISH AND FF&E PLAN - LEVEL 1
1/8" = 1'-0"

PLOT DATE: 4/19/2011 2:22:47 PM TEMPLATE VERSION: 2.5.0.0010909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. 840012
REGISTERED ARCHITECT

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

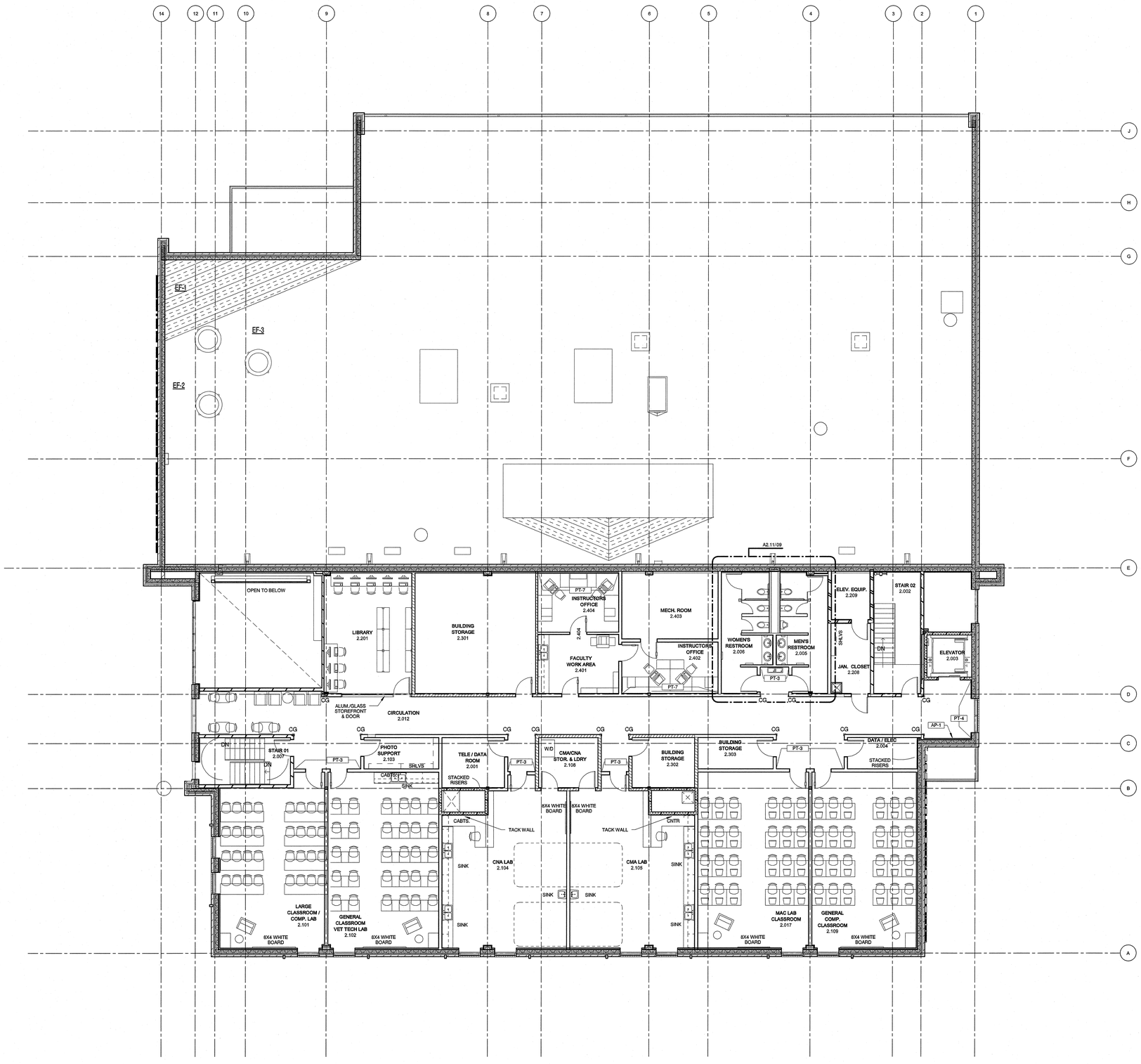
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FF&E PLAN - LEVEL 1

SHEET NO.
A2.31

NOTES:

1. SEE A5.41 FOR WALL FINISHES NOT SHOWN AND FINISH SCHEDULE
2. CG DENOTES CORNER GUARD - SEE SHEET A5.40



N **01** **WALL FINISH AND FF&E PLAN - LEVEL 2**
1/8" = 1'-0"

NOTES:

1. SEE A5.40 FOR WALL FINISHES NOT SHOWN AND FINISH SCHEDULE
2. FF&E = FURNITURE, FIXTURES & EQUIPMENT
3. FF&E IS NOT IN CONTRACT UNLESS IT IS SHOWN ON A2.01 AND A2.02 AND/ OR INTERIOR ELEVATIONS, SHOWN FOR INFORMATION ONLY
4. CORNERGUARDS ARE TO BE INCLUDED IN THE BASE BID U.N.O.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA013614
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

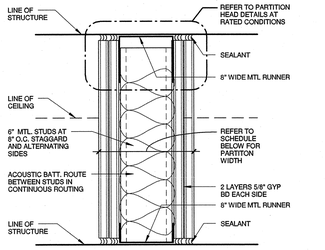
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FF & E PLAN - LEVEL 2

SHEET NO.
A2.32

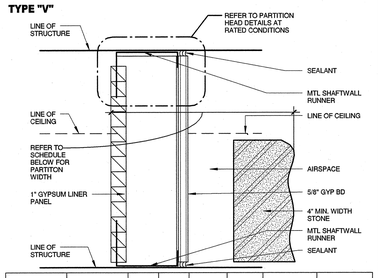
PLOT DATE:
4/19/2011 2:27:51 PM TEMPLATE VERSION: 2.5.0/20100809

TYPE "W"



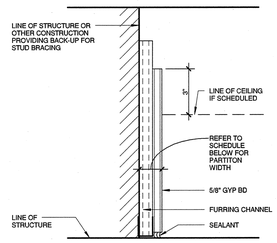
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	CAVITY WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
	W8	8"	9 1/4"	NON-RATED	N/A	N/A	
	W6	8"	9 1/4"	ONE HOUR	U465	40 / 49 W/3" SAB	
	W3	8"	9 1/4"	TWO HOUR	U411	48 / 56 W/3" SAB	

TYPE "V"



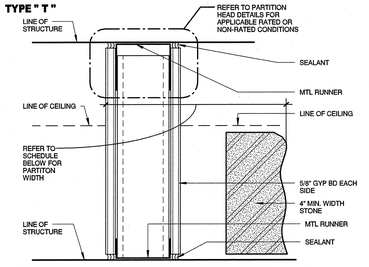
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
V8	V8	8"	1'-3"	ONE HOUR	U469	44 / W/3" SAB	

TYPE "U"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
U1	N/A	7/8"	1 1/2"	NON-RATED	N/A	N/A	
U2	N/A	1 5/8"	2 1/4"	NON-RATED	N/A	N/A	

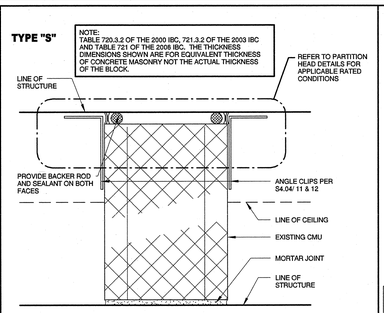
TYPE " T "



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
T8	T8	8"	1'-3"	NON-RATED	N/A	40 / 49 W/3" SAB	
T6	T6	8"	1'-3"	ONE HOUR	U465	40 / 49 W/3" SAB	
T3	T3	8"	1'-3"	TWO HOUR	U411	48 / 56 W/3" SAB	
T10		11 1/4"	1'-6 1/4"	NON-RATED	N/A	40 / 49 W/3" SAB	

TYPE "S"

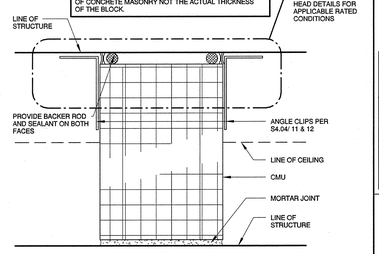
NOTE:
TABLE 720.3.2 OF THE 2000 IBC, 721.3.2 OF THE 2003 IBC AND TABLE 721 OF THE 2006 IBC. THE THICKNESS DIMENSIONS SHOWN ARE FOR EQUIVALENT THICKNESS OF CONCRETE MASONRY NOT THE ACTUAL THICKNESS OF THE BLOCK.



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	CMU WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
S8	S8	7 5/8"	7 5/8"	NON-RATED	N/A	45	
S8	S8	7 5/8"	7 5/8"	ONE HOUR	U905	43	

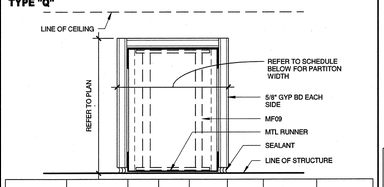
TYPE "R"

NOTE:
TABLE 720.3.2 OF THE 2000 IBC, 721.3.2 OF THE 2003 IBC AND TABLE 721 OF THE 2006 IBC. THE THICKNESS DIMENSIONS SHOWN ARE FOR EQUIVALENT THICKNESS OF CONCRETE MASONRY NOT THE ACTUAL THICKNESS OF THE BLOCK.



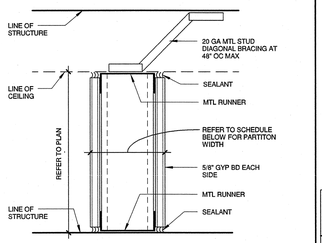
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	CMU WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
R8	N/A	7 5/8"	7 5/8"	NON-RATED	N/A	45	
R4	N/A	3 5/8"	3 5/8"	NON-RATED	N/A	N/A	
R8	N/A	5 5/8"	5 5/8"	NON-RATED	N/A	43	
R12	N/A	11 5/8"	11 5/8"	NON-RATED	N/A	49	
R8	N/A	7 5/8"	7 5/8"	ONE HOUR	U905	45	
R4	N/A	3 5/8"	3 5/8"	ONE HOUR	N/A	N/A	SOLID ONLY, SEE TABLE 721.3.2
R6	N/A	5 5/8"	5 5/8"	ONE HOUR	N/A	43	SEE TABLE 721.3.2
R12	N/A	11 5/8"	11 5/8"	ONE HOUR	U905	49	
R8	N/A	7 5/8"	7 5/8"	TWO HOUR	U905	45	
R6	N/A	5 5/8"	5 5/8"	TWO HOUR	U905	43	
R12	N/A	11 5/8"	11 5/8"	TWO HOUR	U905	49	
R8	N/A	7 5/8"	7 5/8"	THREE HOUR	U904	45	
R6	N/A	5 5/8"	5 5/8"	THREE HOUR	N/A	43	SEE TABLE 721.3.2
R12	N/A	11 5/8"	11 5/8"	THREE HOUR	U904	49	
R8	N/A	7 5/8"	7 5/8"	FOUR HOUR	U901	45	
R12	N/A	11 5/8"	11 5/8"	FOUR HOUR	U901	49	

TYPE "Q"



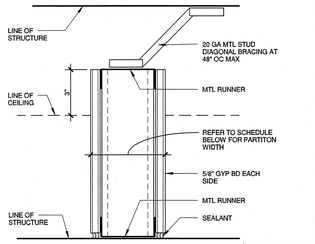
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
Q6	N/A	6"	7 1/4"	NON-RATED	N/A	N/A	
Q4	N/A	4"	5 1/4"	NON-RATED	N/A	N/A	

TYPE "P"



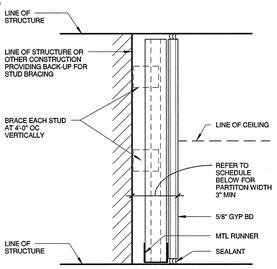
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
P3	N/A	3 5/8"	4 7/8"	NON-RATED	N/A	N/A	
P2	N/A	2 1/2"	3 3/4"	NON-RATED	N/A	N/A	
P6	N/A	6"	7 1/4"	NON-RATED	N/A	N/A	
P8	N/A	8"	9 1/4"	NON-RATED	N/A	N/A	

TYPE "N"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
N3	N/A	3 5/8"	4 7/8"	NON-RATED	N/A	N/A	
N2	N/A	2 1/2"	3 3/4"	NON-RATED	N/A	N/A	
N6	N/A	6"	7 1/4"	NON-RATED	N/A	N/A	

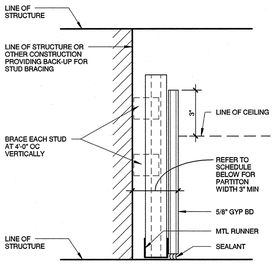
TYPE "M"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
M1	N/A	1 5/8"	3"	NON-RATED	N/A	N/A	
M2	N/A	2 1/2"	4"	NON-RATED	N/A	N/A	
M3	N/A	3 5/8"	5"	NON-RATED	N/A	N/A	

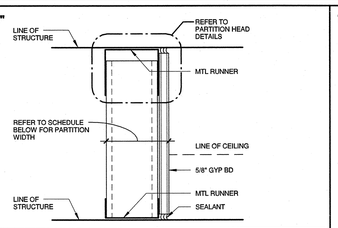
TYPE "L" NOT USED

TYPE "K"



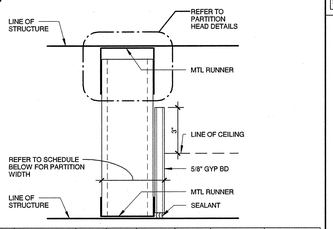
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
K1	N/A	1 5/8"	3"	NON-RATED	N/A	N/A	
K2	N/A	2 1/2"	4"	NON-RATED	N/A	N/A	
K3	N/A	3 5/8"	5"	NON-RATED	N/A	N/A	

TYPE "J"



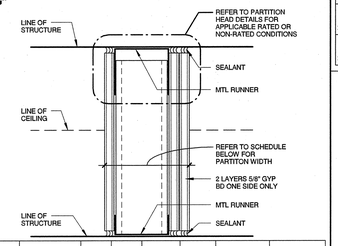
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
J3	J3	3 5/8"	4 1/4"	NON-RATED	N/A		
J2	J2	2 1/2"	3 1/8"	NON-RATED	N/A		
J6	J6	6"	6 5/8"	NON-RATED	N/A		

TYPE "H"



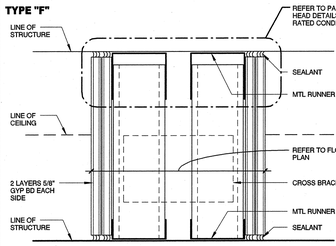
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
H3	N/A	3 5/8"	4 1/4"	NON-RATED	N/A	N/A	
H2	N/A	2 1/2"	3 1/8"	NON-RATED	N/A	N/A	
H6	N/A	6"	6 5/8"	NON-RATED	N/A	N/A	

TYPE "G"



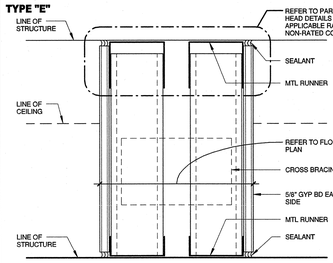
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
G3	G3	3 5/8"	5 1/2"	NON-RATED	N/A	44 / 51 W/3" SAB	
G2	G2	2 1/2"	4 3/8"	NON-RATED	N/A	44 / 51 W/3" SAB	
G6	G6	6"	7 7/8"	NON-RATED	N/A	44 / 51 W/3" SAB	
G3	G3	3 5/8"	5 1/2"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G2	G2	2 1/2"	4 3/8"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G6	G6	6"	7 7/8"	SMOKE RESIST	N/A	44 / 51 W/3" SAB	
G3	G3	3 5/8"	5 1/2"	ONE HOUR	U419	44 / 51 W/3" SAB	
G2	G2	2 1/2"	4 3/8"	ONE HOUR	U419	44 / 51 W/3" SAB	
G6	G6	6"	7 7/8"	ONE HOUR	U419	44 / 51 W/3" SAB	
G3	G3	3 5/8"	5 1/2"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	
G2	G2	2 1/2"	4 3/8"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	
G6	G6	6"	7 7/8"	ONE HOUR/ SMOKE RESIST	U419	44 / 51 W/3" SAB	

TYPE "F"



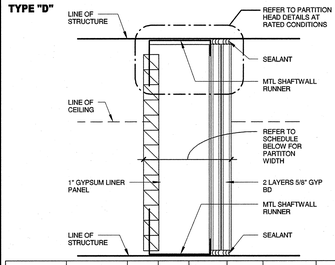
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
F3	F3	3 5/8"	REF FLOOR PLAN	TWO HOUR	U420	52 / 57 W/3" SAB	

TYPE "E"



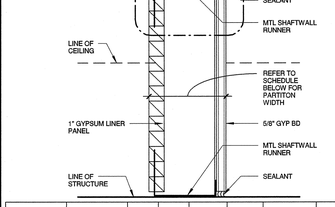
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
E3	E3	3 5/8"	REF FLOOR PLAN	NON-RATED	N/A	N/A / 52 W/3 1/2" SAB	
E3	E3	3 5/8"	REF FLOOR PLAN	ONE HOUR	U420	N/A / 52 W/3 1/2" SAB	

TYPE "D"



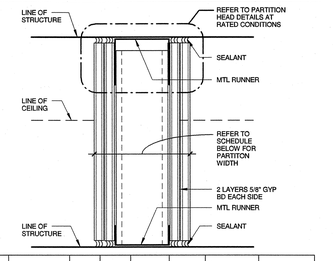
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
D4	D4	4"	5 1/4"	TWO HOUR	U438	39 / 47 W/3" SAB	
D2	D2	2 1/2"	3 3/4"	TWO HOUR	U438	39 / 47 W/1 1/2" SAB	
D6	D6	6"	7 1/4"	TWO HOUR	U438	39 / 47 W/3" SAB	
D8	D8	8"	9 1/4"	TWO HOUR	U438	47 W/3" SAB	

TYPE "C"



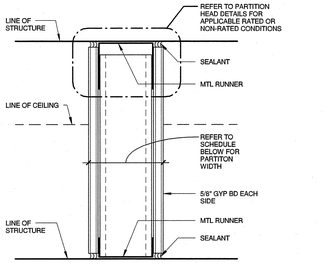
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
C4	C4	4"	4 5/8"	ONE HOUR	U469	36 / 44 W/3" SAB	
C2	C2	2 1/2"	3 1/8"	ONE HOUR	U469	36 / 44 W/1 1/2" SAB	
C6	C6	6"	6 5/8"	ONE HOUR	U469	36 / 44 W/3" SAB	
C8	C8	8"	10 5/8"	ONE HOUR	U469	44 W/3" SAB	

TYPE "B"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
B3	B3	3 5/8"	6 1/8"	TWO HOUR	U411	48 / 56 W/3" SAB	
B2	B2	2 1/2"	5"	TWO HOUR	U411	48 / 56 W/3" SAB	
B6	B6	6"	8 1/2"	TWO HOUR	U411	48 / 56 W/3" SAB	
B8	B8	8"	10 1/2"	TWO HOUR	U411	48 / 56 W/3" SAB	
B3	B3	3 5/8"	6 1/8"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	
B2	B2	2 1/2"	5"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	
B6	B6	6"	8 1/2"	TWO HOUR/ SMOKE RESIST	U411	48 / 56 W/3" SAB	

TYPE "A"



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD WIDTH	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
A3	A3	3 5/8"	4 7/8"	NON-RATED	N/A	40 / 49 W/3" SAB	
A2	A2	2 1/2"	3 3/4"	NON-RATED	N/A	40 / 49 W/3" SAB	
A6	A6	6"	7 1/4"	NON-RATED	N/A	40 / 49 W/3" SAB	
A3	A3	3 5/8"	4 7/8"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
A2	A2	2 1/2"	3 3/4"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
A6	A6	6"	7 1/4"	SMOKE RESIST	N/A	40 / 49 W/3" SAB	
A3	A3	3 5/8"	4 7/8"	ONE HOUR	U465	40 / 49 W/3" SAB	
A2	A2	2 1/2"	3 3/4"	ONE HOUR	N/A	40 / 49 W/3" SAB	
A6	A6	6"	7 1/4"	ONE HOUR	U465	40 / 49 W/3" SAB	
A8	A8	8"	9 1/4"	ONE HOUR	U465	40 / 49 W/3" SAB	
A3	A3	3 5/8"	4 7/8"	ONE HOUR/ SMOKE RESIST	U465	40 / 49 W/3" SAB	
A2	A2	2 1/2"	3 3/4"	ONE HOUR/ SMOKE RESIST	N/A	40 / 49 W/3" SAB	
A6	A6	6"	7 1/4"	ONE HOUR/ SMOKE RESIST	U465	40 / 49 W/3" SAB	

NOTES

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.

2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR PARTITONS NOT REQUIRING SOUND ATTENUATION AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATIONS. REFER TO PARTITION MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.

X# — SYMBOL DESIGNATION (NO SOUND ATTENUATION)

X# — SYMBOL DESIGNATION (WITH SOUND ATTENUATION)

3. THE SYMBOL DESIGNATION HAS TWO CHARACTERS, THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE. THE SECOND CHARACTER IS A NUMERIC INDICATING THE STUD OR CMU WIDTH. REFER TO LEGEND BELOW.

NUMERIC CHARACTER	STUD WIDTH	CMU WIDTH
1	1 5/8"	
2	2 1/2"	
3	3 5/8"	
4	4"	3 5/8"
6	6"	5 5/8"
8	8"	7 5/8"
12		11 5/8"

4. IF NO SYMBOL DESIGNATION IS PROVIDED, THE STUD SIZE WILL BE 3 5/8".

5. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT. REFER TO NOTE 17.

6. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.

7. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.

8. SEALANT:
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
   2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.

9. INSULATION - HEAD CONDITIONS AT FLOOR/ROOF DECK
   1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
   2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB).

10. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.

11. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONT BED OF SEALANT.

12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.

13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

14. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND OR SMOKE RESISTANT RATING SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 20'-0" OC MAX EACH SIDE OR AS REQUIRED BY THE AHJ.

15. REFER TO TOILET ACCESSORIES SHEET AND CASEWORK SHEET FOR MOUNTING DETAIL INFORMATION.

16. REFER TO THE METAL FABRICATIONS DETAILS FOR MF REFERENCES IN PARTITIONS SECTIONS.

17. GRAPHIC DESIGNATION

NOTE:
1. NOT ALL PARTITION TYPES SHOWN ON THIS SHEET ARE USED ON THIS PROJECT.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
COMMISSIONED AND REGISTERED ARCHITECT
(A APPLI)

KEY PLAN

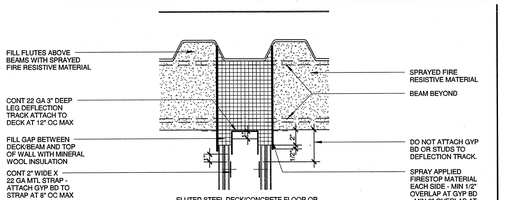
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
PARTITION TYPES

SHEET NO.
A3.01

PLOT DATE: 4/19/2011 2:27:05 PM TEMPLATE VERSION: 2.5.0.20100609

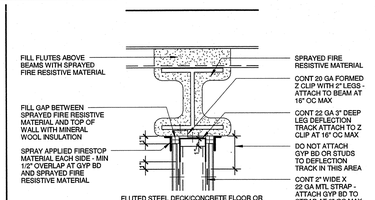


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0299

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

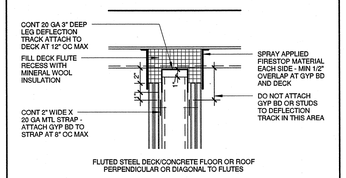


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0267

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



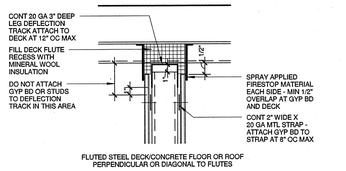
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

PARTITION HEAD DETAILS

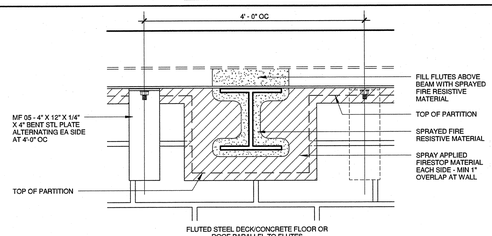


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

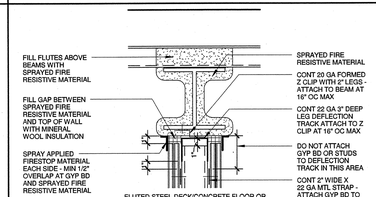


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0300

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

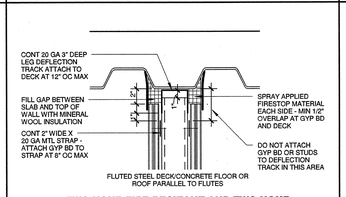


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0267

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

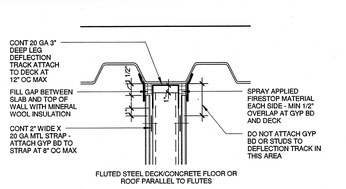


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

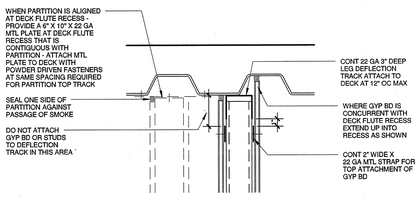


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

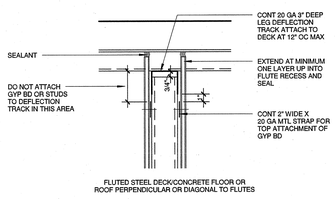
UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



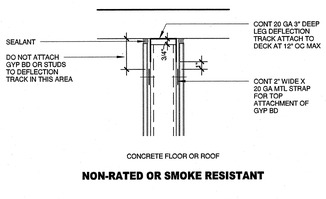
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

FULL HEIGHTNON-RATED OR SMOKE RESISTANT



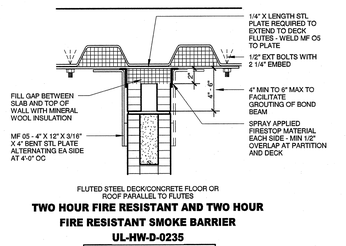
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED OR SMOKE RESISTANT



CONCRETE FLOOR OR ROOF

NON-RATED OR SMOKE RESISTANT

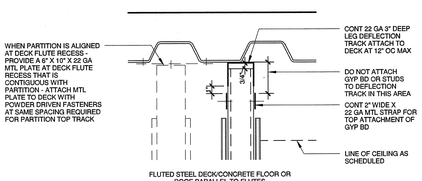


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

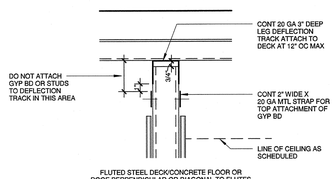
UL-HW-D-0235

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



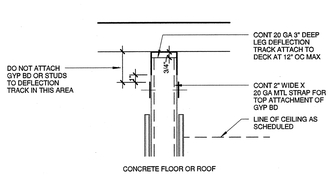
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

NON-RATED



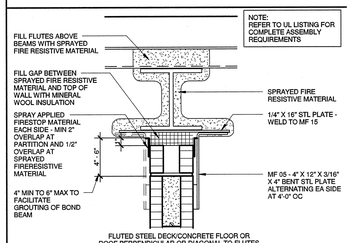
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED



CONCRETE FLOOR OR ROOF

NON-RATED

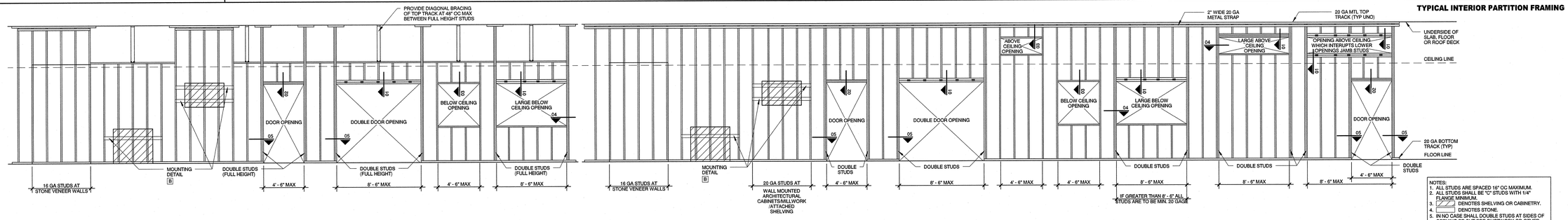


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

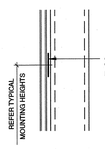
UL-HW-D-0284

TYPICAL INTERIOR PARTITION FRAMING

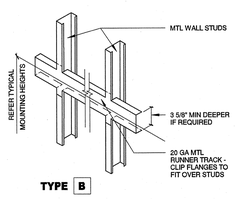


NOTES:
1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. DENOTES SHELVING OR CABINETRY.
4. DENOTES STONE.
5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.

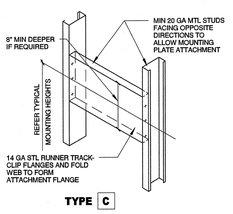
ACCESSORY/EQUIPMENT MOUNTING DETAILS



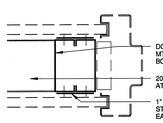
TYPE A



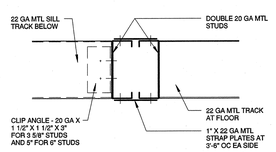
TYPE B



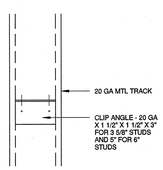
TYPE C



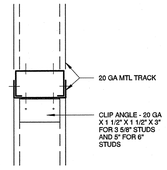
05 DOOR OPENING JAMB STUDS
3" = 1'-0"



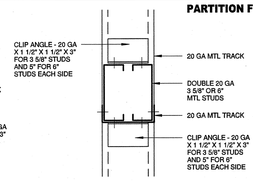
04 LARGE OPENING JAMB STUDS
3" = 1'-0"



03 OPENING HEADER
3" = 1'-0"



02 DOOR OPENING HEADER
3" = 1'-0"



01 DOUBLE DOOR/LARGE OPENING HEADER
3" = 1'-0"

PARTITION FRAMING DETAILS

PLOT DATE: 4/19/2011 2:27:09 PM TEMPLATE VERSION: 2.5.0.20100909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1850 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA016178
REGISTERED ARCHITECT
(9 APR 11)

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

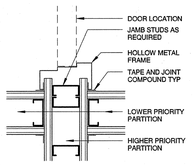
HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

ISSUE
BID SET

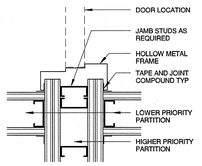
SHEET TITLE
PARTITION HEAD AND FRAMING DETAILS

SHEET NO.
A3.03



INTERSECTION AT CROSS CORRIDOR DOOR ONE HOUR RATED PARTITION

3" = 1' - 0"



INTERSECTION AT CROSS CORRIDOR DOOR TWO HOUR RATED PARTITION

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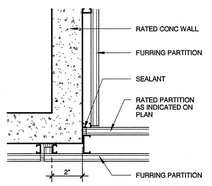
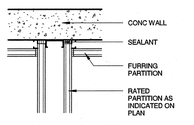


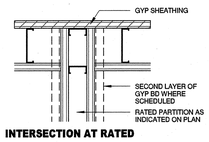
INTERSECTION AT RATED PARTITION AT CONCRETE WALL

3" = 1' - 0"



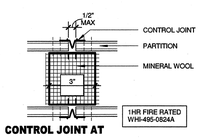
INTERSECTION AT RATED PARTITION AT CONCRETE

3" = 1' - 0"



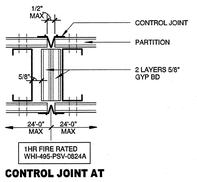
INTERSECTION AT RATED PARTITION AT EXTERIOR WALL

3" = 1' - 0"



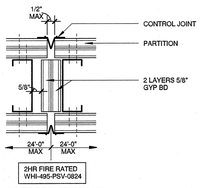
CONTROL JOINT AT FIRE-RATED PARTITION

3" = 1' - 0"



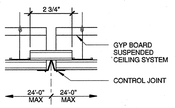
CONTROL JOINT AT FIRE-RATED PARTITION

3" = 1' - 0"



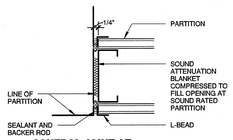
CONTROL JOINT AT FIRE-RATED PARTITION

3" = 1' - 0"



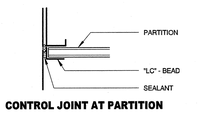
CONTROL JOINT FOR GYPSUM BOARD CEILING

3" = 1' - 0"



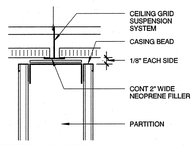
CONTROL JOINT AT PARTITION INTERSECTION CHANGE IN CONSTRUCTION

3" = 1' - 0"



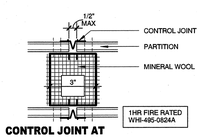
CONTROL JOINT AT PARTITION NON-EXPOSED EDGE

3" = 1' - 0"



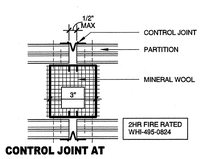
CONTROL JOINT AT PARTITION ATTACHMENT TO CEILING GRID

3" = 1' - 0"



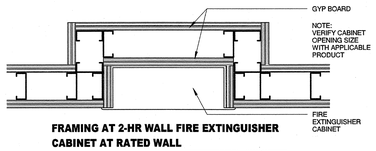
CONTROL JOINT AT FIRE-RATED PARTITION

3" = 1' - 0"



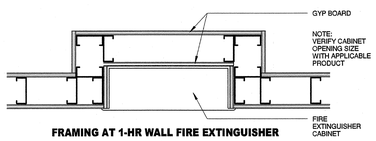
CONTROL JOINT AT FIRE-RATED PARTITION

3" = 1' - 0"



FRAMING AT 2-HR WALL FIRE EXTINGUISHER CABINET AT RATED WALL

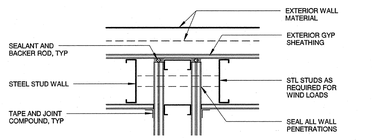
1-1/2" = 1' - 0"



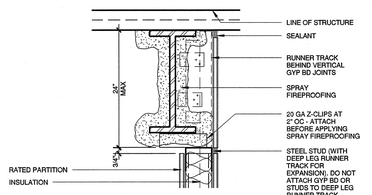
FRAMING AT 1-HR WALL FIRE EXTINGUISHER CABINET AT RATED WALL

1-1/2" = 1' - 0"

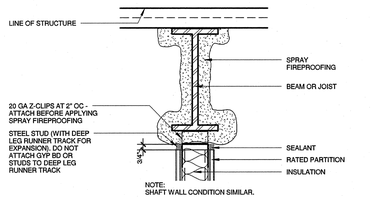
19 NOT USED
1 1/2" = 1'-0"



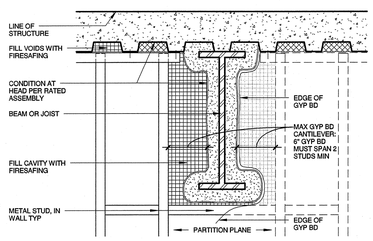
18 PLAN DETAIL AT FIRE AND/OR FIRE/SMOKE PARTITION AT EXTERIOR WALL
1 1/2" = 1'-0"



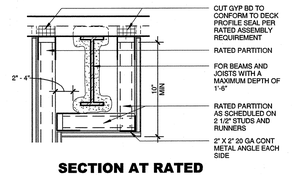
17 SECTION AT RATED PARTITION UNDER BEAM
1 1/2" = 1'-0"



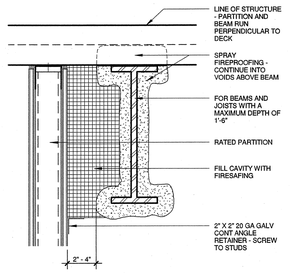
16 SECTION AT RATED PARTITION UNDER BEAM
1 1/2" = 1'-0"



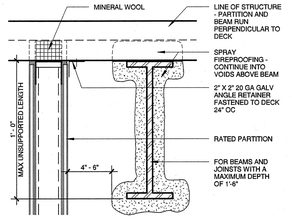
15 SECTION AT RATED PARTITION PERPENDICULAR TO BEAM
1 1/2" = 1'-0"



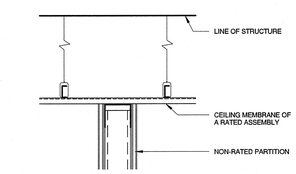
14 SECTION AT RATED PARTITION ADJACENT TO BEAM
1 1/2" = 1'-0"



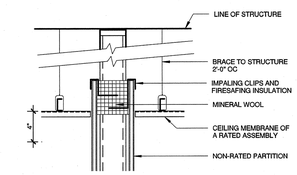
13 SECTION AT RATED PARTITION ADJACENT TO BEAM
1 1/2" = 1'-0"



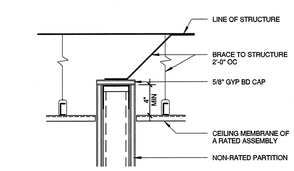
12 SECTION AT RATED PARTITION ADJACENT TO BEAM
1 1/2" = 1'-0"



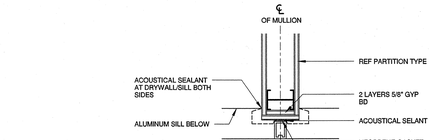
11 SECTION AT NON-RATED PARTITION AND RATED CEILING
1 1/2" = 1'-0"



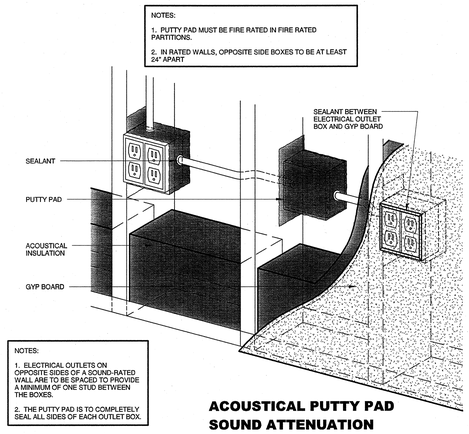
10 SECTION AT NON-RATED PARTITION AND RATED CEILING
1 1/2" = 1'-0"



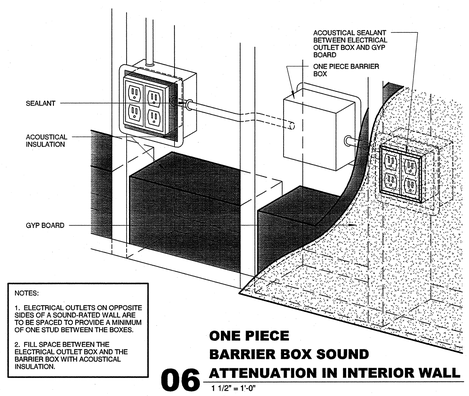
09 SECTION AT NON-RATED PARTITION AND RATED CEILING
1 1/2" = 1'-0"



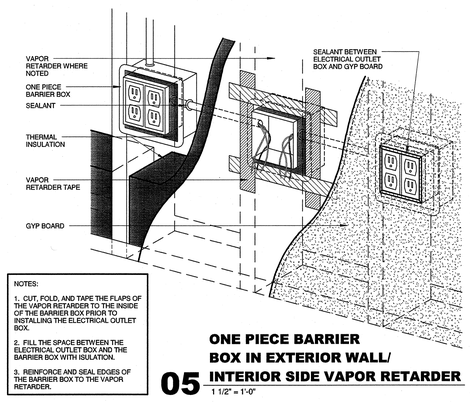
08 PLAN DETAIL AT PARTITION / MULLION
1 1/2" = 1'-0"



07 ACOUSTICAL PUTTY PAD SOUND ATTENUATION IN INTERIOR PARTITION
1 1/2" = 1'-0"

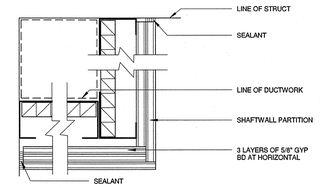


06 ONE PIECE BARRIER BOX SOUND ATTENUATION IN INTERIOR WALL
1 1/2" = 1'-0"



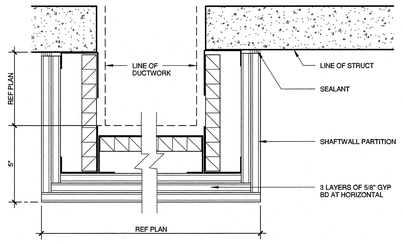
05 ONE PIECE BARRIER BOX IN EXTERIOR WALL/ INTERIOR SIDE VAPOR RETARDER
1 1/2" = 1'-0"

COUNCIL OF BUILDING OFFICIALS NER. 258 (NO ICC EQUIVALENTS AT THIS TIME 2006) ICBO EVALUATION REPORT ER - 5693



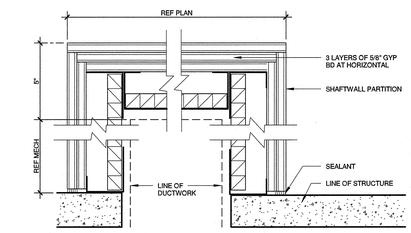
04 HORIZONTAL ENCLOSURE AT DUCTWORK FIRE RATED - 2HR
3" = 1'-0"

COUNCIL OF BUILDING OFFICIALS NER. 258 (NO ICC EQUIVALENTS AT THIS TIME 2006) ICBO EVALUATION REPORT ER - 5693

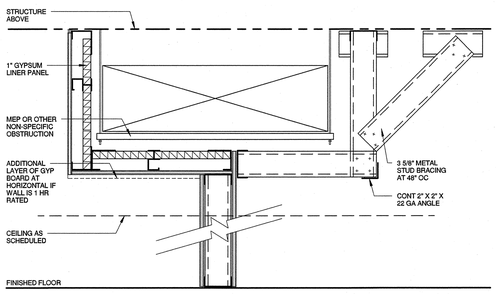


03 HORIZONTAL ENCLOSURE AT BOTTOM OF SHAFTS FIRE RATED - 2HR
3" = 1'-0"

COUNCIL OF BUILDING OFFICIALS NER. 258 (NO ICC EQUIVALENTS AT THIS TIME 2006) ICBO EVALUATION REPORT ER - 5693



02 HORIZONTAL ENCLOSURE AT TOP OF SHAFTS FIRE RATED - 2HR
3" = 1'-0"



01 SECTION THROUGH PARTITION INTERRUPTED BY NON-SPECIFIC OBSTRUCTION
1 1/2" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
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BUILDING EXPANSION
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89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA022111
REGISTERED ARCHITECT
14 APR 11

KEY PLAN

REVISION

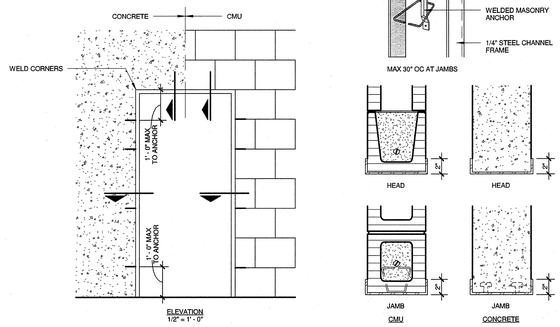
NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

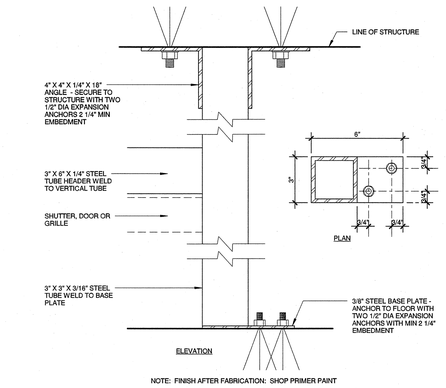
SHEET TITLE
GYP BD DETAILS

SHEET NO.
A3.04

PLOT DATE: 4/18/2011 2:28:06 PM TEMPLATE VERSION: 2.5.0.20100909

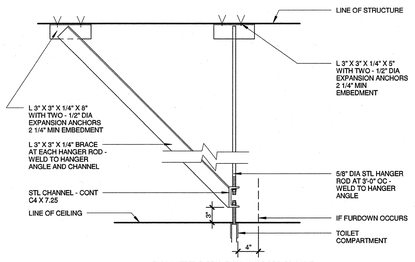


38 MF38 - MASONRY JAMB TIES
1/2" = 1'-0"



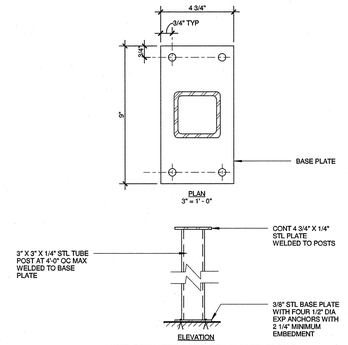
NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

15 MF15 - SUPPORT FRAME AT INTERIOR SHUTTER, DOOR, OR GRILLE
3" = 1'-0"



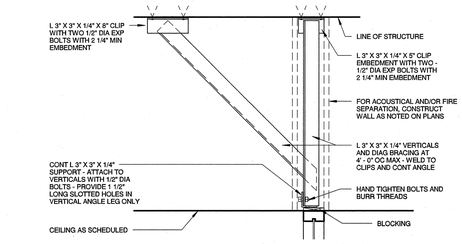
FINISH AFTER FABRICATION: SHOP PRIMER PAINT

13 MF13 - CEILING MOUNTED TOILET COMPARTMENT SUPPORT
NTS



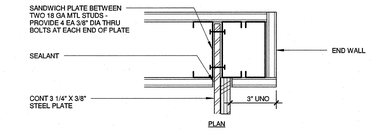
NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

09 MF09 - FREESTANDING PARTITION SUPPORT
1 1/2" = 1'-0"



FINISH AFTER FABRICATION: SHOP PRIMER PAINT

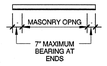
12 MF12 - HEAD SUPPORT AT INTERIOR ALUMINUM WALL SYSTEM
1" = 1'-0"



NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

07 MF07 - LAVATORY COUNTER SUPPORT SPAN LESS THAN 10' - 0"1
3" = 1'-0"

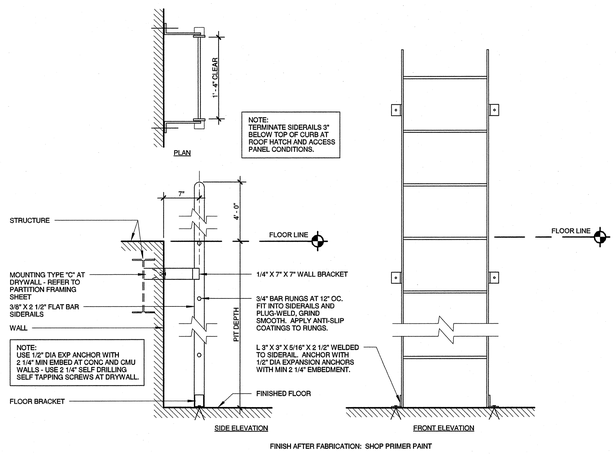
LOOSE LINTEL SCHEDULE	
LINTEL SPAN	STL ANGLE SIZE
0' - 0" TO 6' - 0"	5" X 3 1/2" X 5/16" LLV
6' - 0" TO 10' - 0"	6" X 3 1/2" X 3/8" LLV



NOTE: FINISH AFTER FABRICATION: HOT DIP GALVANIZE

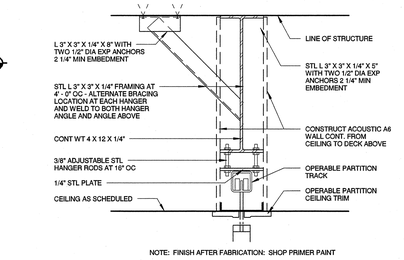
06 MF06 - LOOSE MASONRY LINTEL SCHEDULE
NTS

34A MF34A - WALL BRACKET ANCHORAGE ON MASONRY/STONE
3" = 1'-0"



FINISH AFTER FABRICATION: SHOP PRIMER PAINT

32 MF32 - ELEVATOR PIT ACCESS LADDER
1" = 1'-0"



NOTE: FINISH AFTER FABRICATION: SHOP PRIMER PAINT

11 MF11 - OPERABLE PARTITION SUPPORT
NTS

GENERAL NOTES

THE SCHEDULE MAY NOT INCLUDE ALL METAL FABRICATION ITEMS AND MAY HAVE GAPS IN THE ALPHANUMERIC SEQUENCE.

PLOT DATE: 4/18/2011 2:29:10 PM TEMPLATE VERSION: 2.6.0.201000909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY,
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA021414
REGISTERED ARCHITECT
APR. 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

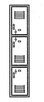
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
METAL FABRICATIONS 01

SHEET NO.
A3.10

LOCKER SCHEDULE

SCALE: 1/4" = 1' - 0"



C
TRIPLE TIER

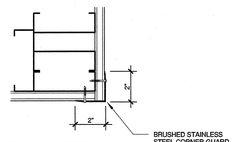
LOCKER CODE FOR PLANS:

1. STYLE OF LOCKER: TYPE A THROUGH TYPE C.
2. MATERIAL:
   M - METAL PL - PLASTIC LAMINATE CLAD WOOD
   P - PLASTIC W - STAIN FINISHED WOOD
3. TOP CONFIGURATION:
   ST - SLOPED TOP FT - STANDARD TOP FOR FURR DOWN
   FP - FASCIA PANEL

TYPE C1 LOCKER - FEATURES

WALL CORNER DETAIL

SCALE: 3" = 1' - 0"

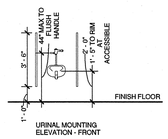


CG-11 - 48" HIGH
CG-12 - FULL HEIGHT

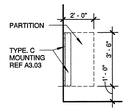
STANDARD LAYOUTS

SCALE: 1/4" = 1' - 0"

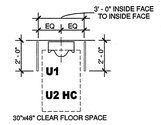
NOTE: LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.



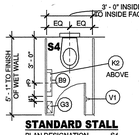
URINAL MOUNTING ELEVATION - FRONT



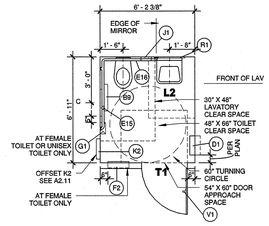
URINAL MOUNTING ELEVATION SIDE



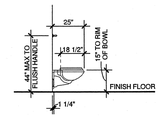
STANDARD URINAL
PLAN DESIGNATION U1
PLAN DESIGNATION U2 @ ACCESSIBLE



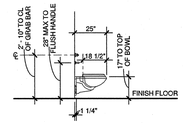
STANDARD STALL
PLAN DESIGNATION S4



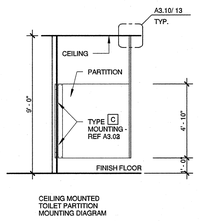
STANDARD ACCESSIBLE TOILET
PLAN DESIGNATION T1



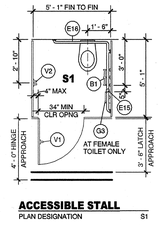
NON - ACCESSIBLE WALL MOUNTED TOILET MOUNTING DIAGRAM - S4 STALL



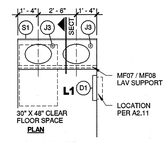
ACCESSIBLE WALL MOUNTED TOILET MOUNTING DIAGRAM S2 +T1 STALLS



CEILING MOUNTED TOILET PARTITION MOUNTING DIAGRAM

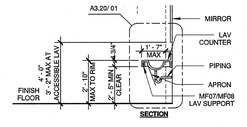


ACCESSIBLE STALL
PLAN DESIGNATION S1

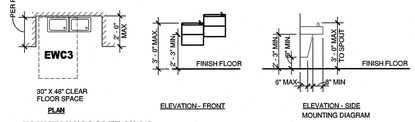


PLAN

STANDARD ACCESSIBLE LAVATORY
L1



SECTION

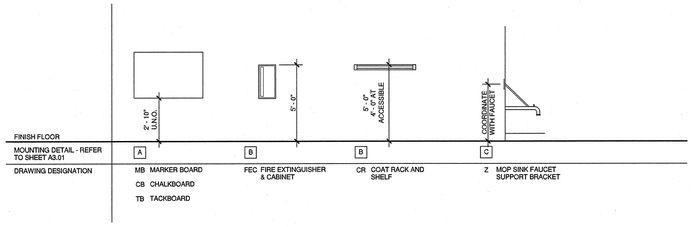


PLAN — ELEVATION - FRONT — ELEVATION - SIDE MOUNTING DIAGRAM

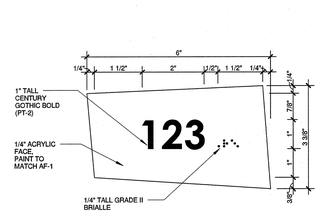
FOUNTAIN/COOLER HI-LO
EWC3

MISCELLANEOUS SPECIALTIES AND EQUIPMENT

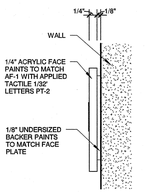
SCALE: 1/4" = 1' - 0"



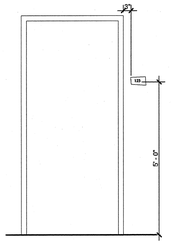
TYPICAL ROOM SIGNAGE



09 TYP. ROOM SIGNAGE ELEVATION
6" = 1'-0"



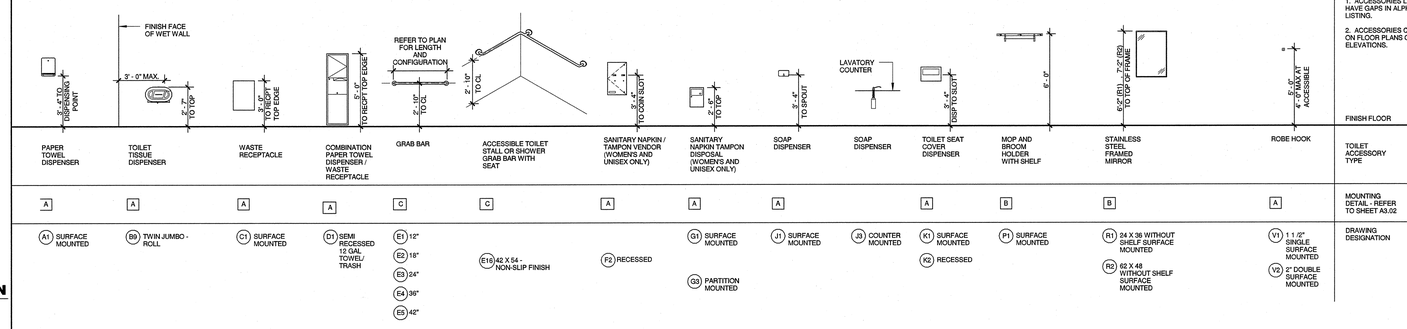
08 TYP. ROOM SIGNAGE SECTION
6" = 1'-0"



07 TYP. DOOR ELEVATION
1/2" = 1'-0"

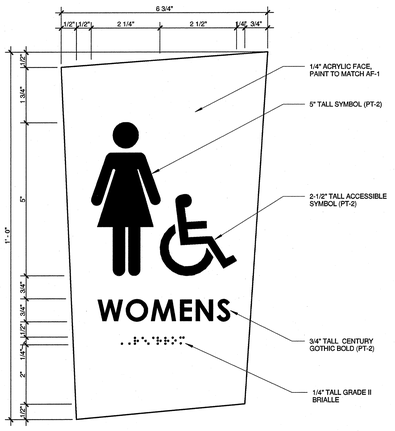
TOILET ACCESSORY MOUNTING DIAGRAM

SCALE: 1/4" = 1'-0"

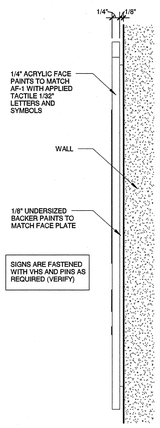


NOTE:
1. ACCESSORIES LISTED MAY HAVE GAPS IN ALPHABETICAL LISTING.
2. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.

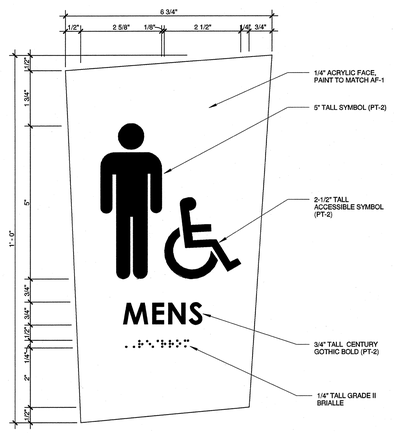
RESTROOM SIGNAGE



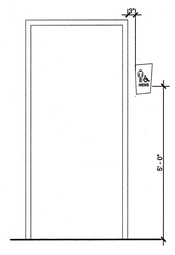
06 WOMENS RESTROOM SIGNAGE ELEVATION
6" = 1'-0"



05 RESTROOM SIGNAGE SECTION
6" = 1'-0"

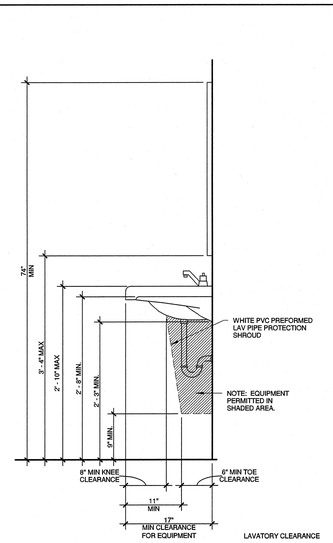


04 MENS RESTROOM SIGNAGE ELEVATION
6" = 1'-0"



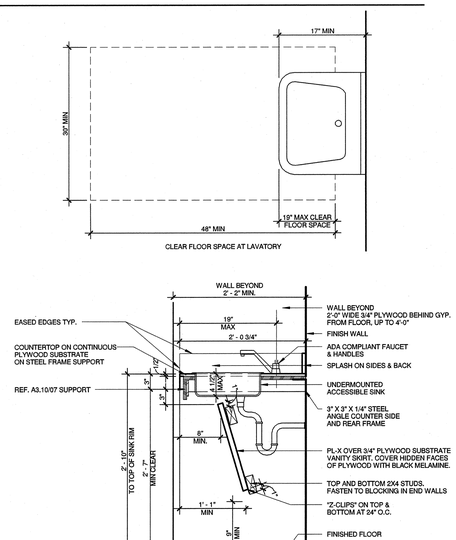
03 RESTROOM DOOR ELEVATION
1/2" = 1'-0"

TYPICAL FIXTURE DETAILS



LAVATORY CLEARANCE

02 TYPICAL WALL HUNG LAVATORY
1" = 1'-0"



01 TYPICAL RESTROOM COUNTER AND LAVATORY
1" = 1'-0"

PLOT DATE: 4/18/2011 2:28:15 PM TEMPLATE VERSION: 2.5.0.20100809

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
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MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
RESTROOM, TOILET LAYOUTS AND STD ACCESSORIES

A3.20

SAFETY GLASS LOCATIONS

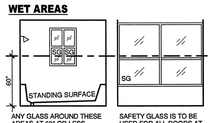
NOTE:
NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

GLASS SCHEDULE

GLASS PRODUCT SCHEDULE FOR WALLS AND DOORS NP - NOT PERMITTED A - ACCEPTABLE NR - NOT RECOMMENDED		ANNEALED	WIRED	TEMPERED	LAMINATED	FIRE-RATED
FIRE -RATED	SAFETY NOT REQUIRED	NP	A	NP	NP	A
	SAFETY REQUIRED	NP	NP	NP	NP	A
NON-FIRE -RATED	SAFETY NOT REQUIRED	A	A	A	A	NR
	SAFETY REQUIRED	NP	NP	A	A	NR

SAFETY GLAZING (SG) IS REQUIRED FOR

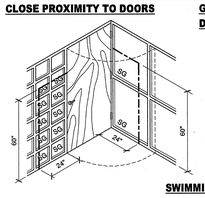
WET AREAS



ANY GLASS AROUND THESE AREAS AT 60" OR LESS ABOVE THE STANDING SURFACE IS TO BE SAFETY GLASS

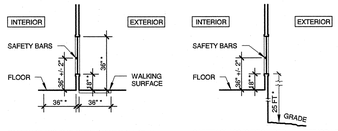
SAFETY GLASS IS TO BE USED FOR ALL DOORS AT HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATH TUBS OR SHOWERS

CLOSE PROXIMITY TO DOORS



GLAZED OPENINGS IN DOORS

GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN ALL OF THE FOLLOWING CONDITIONS ARE PRESENT
* TOP OF GLAZING IS GREATER THAN / EQUAL 36" AFF
* AREA OF SINGLE PANE > 9 SF
* BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF
* WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

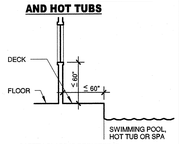
EXCEPTION:
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 39" OF GLASS

SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN / EQUAL 18" AFF

EXCEPTION:
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED

SAFETY GLASS IS REQUIRED FOR EXTERIOR LITE EXCEPT WHEN THE BOTTOM OF THE GLAZING IS GREATER THAN / EQUAL 25 FT ABOVE GRADE

SWIMMING POOLS, SPAS, AND HOT TUBS



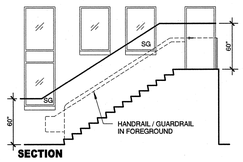
SAFETY GLASS IS REQUIRED IF:
THE BOTTOM OF GLASS IS LESS THAN / EQUAL 60" AFF OR DECK

AND

GLAZING IS LESS THAN / EQUAL 60" FROM EDGE OF POOL, HOT TUB OR SPA

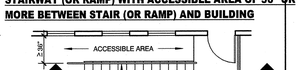
STAIRWAY (OR RAMP) AGAINST BUILDING

PLAN

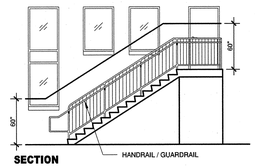


SECTION

STAIRWAY (OR RAMP) WITH ACCESSIBLE AREA OF 36" OR MORE BETWEEN STAIR (OR RAMP) AND BUILDING



PLAN



SECTION

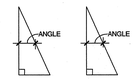
STAIRWAY (OR RAMP) WITHIN 18", OR LESS, FROM BUILDING

PLAN

SECTION

SLOPED SAFETY GLASS LOCATIONS

DEFINITION



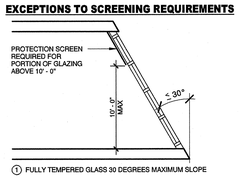
VERTICAL GLAZING ANGLE LESS THAN 15 DEGREES

SLOPED GLAZING ANGLE GREATER THAN / EQUAL 15 DEGREES

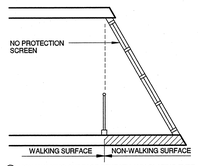
GLAZING TYPE	PERMITTED WITHOUT REQUIRED PROTECTION SCREEN	PERMITTED WITH REQUIRED PROTECTION SCREEN	EXCEPTIONS TO SCREEN REQUIREMENTS
ANNEALED GLASS	NP	NP	② ③
HEAT STRENGTHENED GLASS	NP	OK	② ③
FULLY TEMPERED GLASS	NP	OK	① ② ③ ④
WIRE GLASS	OK	NA	
LAMINATED GLASS	OK	NA	
PLASTIC GLAZING	OK	NA	
LABELED UNIT SKYLIGHTS	OK	NA	

NP = NOT PERMITTED NA = NOT APPLICABLE

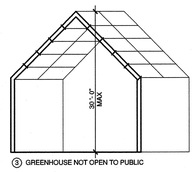
EXCEPTIONS TO SCREENING REQUIREMENTS



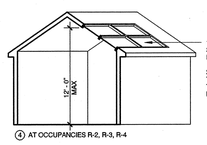
① FULLY TEMPERED GLASS 30 DEGREES MAXIMUM SLOPE



② NON-WALKING SURFACE BENEATH ANY GLAZING TYPE



③ GREENHOUSE NOT OPEN TO PUBLIC



1. MAXIMUM PANE SIZE LESS THAN / EQUAL 16 SF.

2. MAXIMUM GLASS THICKNESS LESS THAN / EQUAL 3/16" OR LAMINATED GLASS.

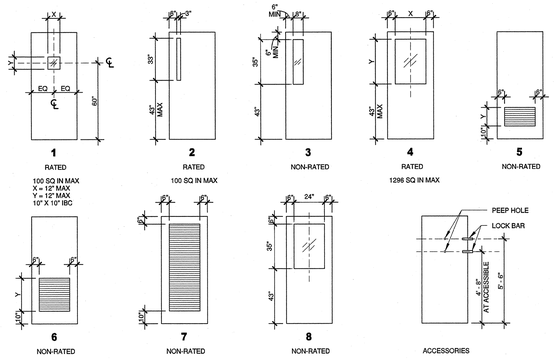
④ AT OCCUPANCIES R-2, R-3, R-4

DOOR LEGEND

DOOR NOTES

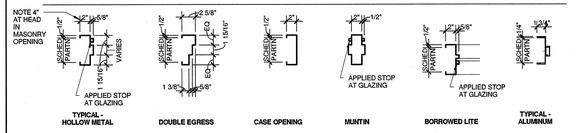
1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

VISION PANELS, LOUVER TYPES, AND ACCESSORIES

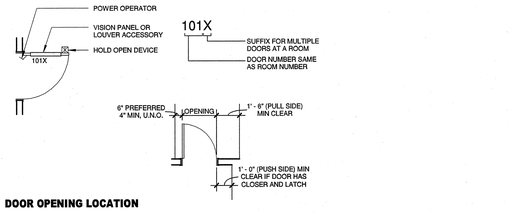


DOOR AND BORROWED LITE FRAME TYPES

SCALE: 1" = 1' - 0"



DOOR PLAN DESIGNATION

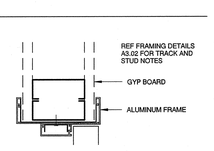


DOOR OPENING LOCATION

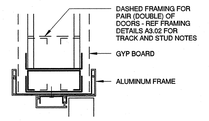
A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

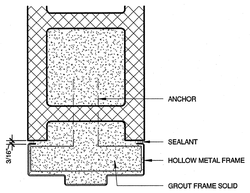
DOOR DETAILS



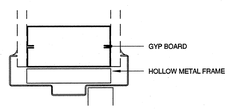
04 INTERIOR DOOR JAMB DETAIL - ALUMINUM
3" = 1'-0"



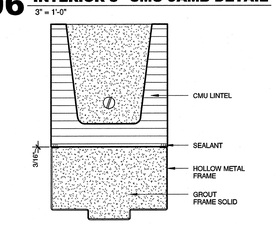
03 INTERIOR DOOR HEAD DETAIL - ALUMINUM
3" = 1'-0"



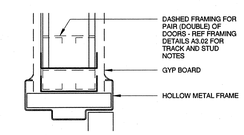
06 INTERIOR 8" CMU JAMB DETAIL
3" = 1'-0"



02 INTERIOR DOOR JAMB DETAIL - HOLLOW METAL
3" = 1'-0"



05 INTERIOR 8" CMU HEAD DETAIL
3" = 1'-0"



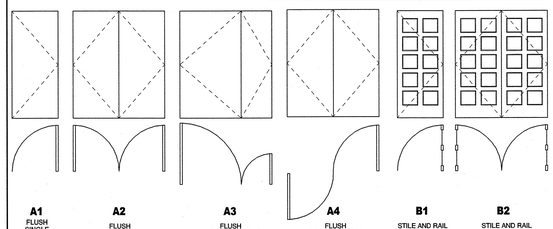
01 INTERIOR DOOR HEAD DETAIL - HOLLOW METAL
3" = 1'-0"

DOOR LEGEND

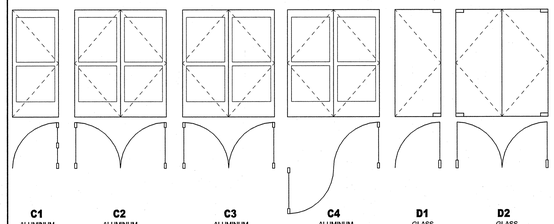
DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

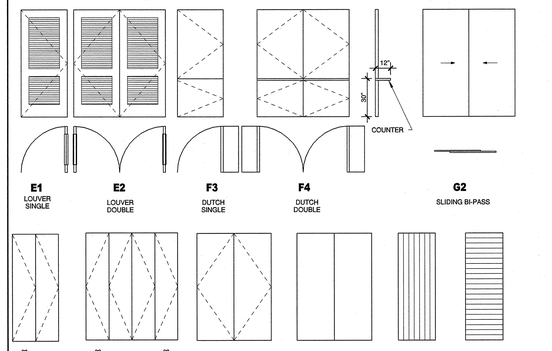
DOOR TYPES



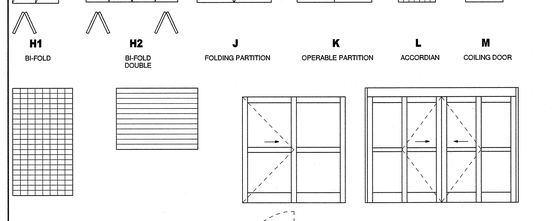
A1 FLUSH SINGLE
A2 FLUSH DOUBLE
A3 FLUSH UNEQUAL DOUBLE
A4 FLUSH DOUBLE EGRESS
B1 STILE AND RAIL SINGLE
B2 STILE AND RAIL DOUBLE



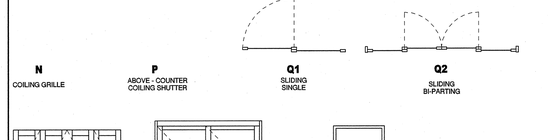
C1 ALUMINUM SINGLE
C2 ALUMINUM DOUBLE
C3 ALUMINUM UNEQUAL DOUBLE
C4 ALUMINUM DOUBLE EGRESS
D1 GLASS SINGLE
D2 GLASS DOUBLE



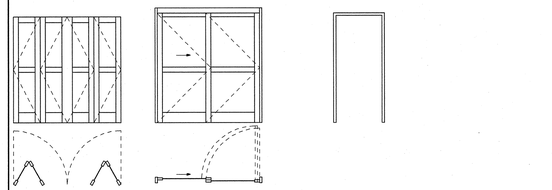
E1 LOUVER SINGLE
E2 LOUVER DOUBLE
F3 DUTCH SINGLE
F4 DUTCH DOUBLE
G2 SLIDING BI-PASS



H1 BI-FOLD
H2 BI-FOLD DOUBLE
J FOLDING PARTITION
K OPERABLE PARTITION
L ACCORDIAN
M COILING DOOR



N COILING GRILLE
P ABOVE - COUNTER COILING SHUTTER
Q1 SLIDING SINGLE
Q2 SLIDING BI-PARTING



R2 AUTO BI-FOLD
S1 SLIDING ICU SINGLE
T1 CASE OPENING

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE, DAWSONVILLE, GA. 30534
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA012134
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
DOOR, SAFETY GLAZING,DETAILS AND LOUVER INFORMATION

A3.31

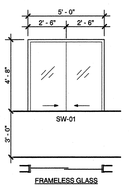
PLOT DATE:
4/19/2011 2:28:19 PM TEMPLATE VERSION: 2.0.0.20100809

DOOR SCHEDULE

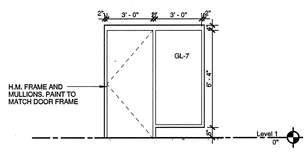
REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	MATERIALS AND FINISHES				DOOR RATING	SOUND RATING	DETAILS / A3.31 U.N.O.			GLAZING TYPE	VISION PANEL AND LOUVER TYPE	CONTROLS		HARDWARE	SECURITY RATING	DOOR NUMBER	COMMENTS
						DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH			HEAD	JAMB	SILL			POWER OPERATOR	HOLD OPEN				
Level 1																						
-	1.001A	6' - 0"	7' - 9"	C2	6	AL/GLS	AL/GLS	AL	AL	-					GL-5		X	-	AL-3		1.001A	PR 3'-0" W/ CENTERPOST - POWER OPERATED DOOR
-	1.001B	6' - 0"	8' - 0"	C2	6	AL/GLS	AL/GLS	AL	AL	-					GL-5		X	-	AL-3A		1.001B	PR 3'-0" W/ CENTERPOST - POWER OPERATED DOOR
-	1.003	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	14	-	1.003	
-	1.004	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	14	-	1.004	
	1.005	3' - 0"	7' - 0"	C1	6	AL/GLS	AL/GLS	AL	AL	-					GL-5		-	-	AL-4		1.005	
-	1.006A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	1 HR					GL-5	2	-	-	13		1.006A	
-	1.006B	3' - 0"	7' - 9"	C1	6	AL/GLS	AL/GLS	AL	AL	-					GL-5		-	-	AL-1		1.006B	
-	1.007	3' - 0"	7' - 0"	A1	1	WD	PTD	HM	PTD	1 HR					GL-5	2	-	-	27		1.007	
-	1.008	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26	-	1.008	
-	1.009	6' - 0"	7' - 0"	A2	1	WD	PTD	HM	PTD	-					GL-5	3	-	-	16		1.009	PR 3'-0"
-	1.100	3' - 0"	7' - 0"	A1	1	WD	PTD	HM	PTD	-	STC				GL-5	3	-	-	09		1.100	
-	1.102A	3' - 0"	7' - 0"	F3	1	WD	STAIN	HM	PTD	-							-	-	03		1.102A	DUTCH DOOR
	1.102B	12' - 0"	4' - 0"	P		STEEL	PTD	STEEL	PTD	-							-	-	02		1.102B	OVERHEAD COILING SECURITY GRILL
-	1.201	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07	-	1.201	
-	1.202	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07	-	1.202	
-	1.203	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	19		1.203	
-	1.204	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	08	-	1.204	
-	1.205	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	08		1.205	
-	1.206	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07		1.206	
-	1.207	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07		1.207	
-	1.301	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	09	-	1.301	
-	1.303	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11	-	1.303	
-	1.304A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	09	-	1.304A	
-	1.304B	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11	-	1.304B	
-	1.305	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	11		1.305	
-	1.306	4' - 0"	8' - 10"	T1		-		HM	PTD												1.306	CASED OPENING
-	1.307	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07		1.307	
-	1.401A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	09	-	1.401A	
-	1.401B	5' - 0"	9' - 0"	A2		WD	-	-	-	-					-		-	-	20		1.401B	OPERABLE PARTITION DOORS PROVIDED BY MANUFACTORER
-	1.402	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	09	-	1.402	
-	1.403	6' - 0"	7' - 0"	A2	1	WD	STAIN	HM	PTD	-					-		-	-	10		1.403	PR 3'-0"
-	1.404	6' - 0"	7' - 0"	A2	1	WD	STAIN	HM	PTD	-					-		-	-	10		1.404	PR 3'-0"
-	1.445A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	1 HR					GL-5	2	-	-	27		1.445A	
-	1.445B	5' - 11 3/8"	7' - 0"	C2	6	AL/GLS	AL/GLS	AL	AL	-					GL-5		X	-	AL-3		1.445B	PR 3'-0" W/ CENTERPOST - POWER OPERATED DOOR
-	1.501	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		1.501	
-	1.502	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		1.502	
-	1.503	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	26		1.503	
-	1.504	6' - 0"	7' - 0"	A2	1	WD	STAIN	HM	PTD	45 MIN	HD-STC				-		-	-	23		1.504	PR 3'-0" HD SOUND RATED (STC-45+)
-	1.505A	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	17	-	1.505A	
-	1.505B	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	01		1.505B	
-	1.506	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	18	-	1.506	
-	1.601	3' - 0"	7' - 0"	A1	1	HM	STAIN	HM	PTD	-	STC				GL-5	3	-	-	22		1.601	
-	1.602A	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	17	-	1.602A	
	1.602B	12' - 0"	12' - 0"	-		STEEL		STEEL	PTD								-	-	02		1.602B	OVERHEAD COILING DOOR
-	1.603	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07		1.603	
-	1.604	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE					GL-5	3	-	-	04		1.604	
-	1.701A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	09		1.701A	
-	1.701B	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	22		1.701B	
-	1.702A	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	15	-	1.702A	
	1.702B	12' - 0"	12' - 0"	-		STEEL		STEEL	PTD								-	-	02		1.702B	OVERHEAD COILING DOOR
-	1.703	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	07		1.703	
-	1.704	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE					GL-5	3	-	-	04		1.704	
-	1.705	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE					GL-5	3	-	-	04		1.705	
-	1.801	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11		1.801	
-	1.802A	6' - 0"	7' - 0"	A2	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	21		1.802A	PR 3'-0"
-	1.802B	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	22		1.802B	
-	1.802C	3' - 0"	7' - 0"	A1	1	HM	PTD	HM	PTD	-					-		-	-	17	-	1.802C	
	1.802D	12' - 0"	12' - 0"		-	STEEL		STEEL	PTD										02		1.802D	OVERHEAD COILING DOOR
	1.802E	12' - 0"	12' - 0"		-	STEEL		STEEL	PTD										02		1.802E	OVERHEAD COILING DOOR
	1.802F	12' - 0"	12' - 0"		-	STEEL		STEEL	PTD										02		1.802F	OVERHEAD COILING DOOR
	1.802G	12' - 0"	12' - 0"		-	STEEL		STEEL	PTD										02		1.802G	OVERHEAD COILING DOOR
	1.802H	12' - 0"	12' - 0"		-	STEEL		STEEL	PTD										02		1.802H	OVERHEAD COILING DOOR
-	1.803	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD		STC				GL-5	3	-	-	07		1.803	
-	1.804	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE					GL-5	3	-	-	04		1.804	
-	1.805	3' - 0"	7' - 0"	F3	1	WD	STAIN	HM	PTD	SMOKE							-	-	03		1.805	DUTCH DOOR
	BL1.200	3' - 0"	7' - 0"	-	6	AL/GLS	AL/GLS	AL	AL	-									09		BL1.200	ALUMINUM STOREFRONT DOOR
	BL1.300	3' - 0"	7' - 0"	-	6	AL/GLS	AL/GLS	AL	AL	-									09		BL1.300	ALUMINUM STOREFRONT DOOR
Level 2																						
-	2.001	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD						-		-	-	26		2.001	
-	2.002	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	1 HR					GL-5	2	-	-	27		2.002	
-	2.004	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		2.004	
-	2.005	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	14		2.005	
-	2.006	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				-		-	-	14		2.006	
-	2.007	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	1 HR					GL-5	2	-	-	27		2.007	
-	2.101	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	12		2.101	
-	2.102	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	12		2.102	
-	2.103	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		2.103	
-	2.104	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	12		2.104	
-	2.105	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11		2.105	
-	2.107	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11		2.107	
-	2.108A	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE	STC				-		-	-	26		2.108A	
-	2.108B	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE	STC				-		-	-	26		2.108B	
-	2.109	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	STC				GL-5	3	-	-	11		2.109	
-	2.208	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		2.208	
-	2.209	3' - 0"	7' - 0"	A1	1	WD	PTD	HM	PTD	2 HR	HD-STC				-		-	-	24		2.209	STC 45+ HD SOUND RATED 2 1/4" DOOR
-	2.301	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD						-		-	-	26		2.301	
-	2.302	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	SMOKE					-		-	-	26		2.302	
-	2.303	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					-		-	-	26		2.303	
-	2.401	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	12		2.401	
-	2.402	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	07		2.402	
-	2.403	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-	HD-STC				-		-	-	24		2.403	STC 45+ HD SOUND RATED 2 1/4" DOOR
-	2.404	3' - 0"	7' - 0"	A1	1	WD	STAIN	HM	PTD	-					GL-5	3	-	-	07		2.404	
	BL 2.201	3' - 0"	7' - 0"	-	6	AL/GLS	AL/GLS	AL	AL	-									12		BL 2.201	ALUMINUM STOREFRONT DOOR

EXTERIOR LOUVER SCHEDULE

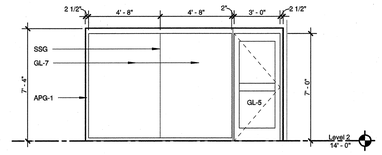
TYPE	MARK	WIDTH	HEIGHT	INSECT SCREEN	BIRD SCREEN	INSECT & BIRD SCREEN	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
L1	1	5' - 11"	5' - 11"	-	-	X	A7.01/08	A7.01/07	A7.01/06	
L1	2	5' - 3"	5' - 3"	-	-	X	A7.01/08	A7.01/07	A7.01/06	
L1	3	9' - 11"	7' - 11"	-	-	X	A7.01/08	A7.01/07	A7.01/06	



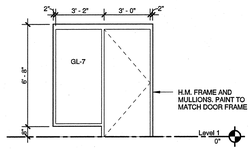
07 SW-01
1/4" = 1'-0"



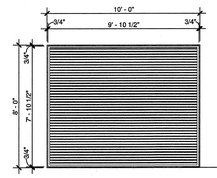
06 BL 1.300
1/4" = 1'-0"



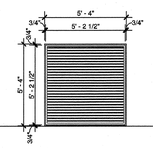
05 BL 2.201
1/4" = 1'-0"



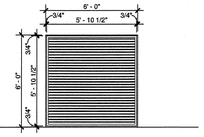
04 BL 1.200
1/4" = 1'-0"



03 L3
1/4" = 1'-0"



02 L2
1/4" = 1'-0"



01 L1
1/4" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY,
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. 040317
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
DOOR SCHEDULE AND LOUVER INFROMATION
SHEET NO.
A3.32

PLOT DATE: 4/19/2011 2:28:29 PM TEMPLATE VERSION: 2.5.0.20100909

FINISH LEGEND

FLOORS:

CARPET

CPT-1 (A)
CARPET TILE
MANUFACTURER: CONSTANTINE COMMERCIAL
STYLE: NEXUS TILE
COLOR: C390C97 PICCADILLY CIRCUS
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-1 (B)
CARPET TILE
MANUFACTURER: SHAW COMMERCIAL
STYLE: EMBELLISH
COLOR: EMBOSSED METAL
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-1 (C)
CARPET TILE
MANUFACTURER: TANDUS
STYLE: LANDSCAPE TEXTURES
COLOR: 65008 ELECTROPLATED
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-2 (A)
CARPET TILE
MANUFACTURER: CONSTANTINE COMMERCIAL
STYLE: METRO TILE
COLOR: C390C97 PICCADILLY CIRCUS
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-2 (B)
CARPET TILE
MANUFACTURER: SHAW COMMERCIAL
STYLE: EMBELLISH
COLOR: EMBOSSED
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-2 (C)
CARPET TILE
MANUFACTURER: TANDUS
STYLE: MANUFACTURED LANDSCAPES
COLOR: 65008 ELECTROPLATED
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-3 (A)
CARPET TILE
MANUFACTURER: CONSTANTINE COMMERCIAL
STYLE: NARROW TILE
COLOR: TBD
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-3 (B)
CARPET TILE
MANUFACTURER: SHAW COMMERCIAL
STYLE: PAPARAZZI V2
COLOR: TBD
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

CPT-3 (C)
CARPET TILE
MANUFACTURER: TANDUS
STYLE: PLEXUS COLOUR
COLOR: TBD
SIZE: 24" X 24"
COMMENTS: MONOLITHIC INSTALLATION

WM-1
WALK-OFF MAT
PER SPECIFICATIONS
SECTION 124843 - FLOOR MATS

PORCELAIN FLOOR TILE

PFT-1 (A)
PORCELAIN FLOOR TILE
MANUFACTURER: CERAMIC TECHNICS LTD.
STYLE: SONOMA LIFE
COLOR: ARKI
SIZE: 12" X 24"
GROUT COLOR: TBD

PFT-1 (B)
PORCELAIN FLOOR TILE
MANUFACTURER: DAL-TILE
STYLE: VERANDA
COLOR: STEEL P500
SIZE: 13" X 20"
GROUT COLOR: TBD

PFT-1 (C)
PORCELAIN FLOOR TILE
MANUFACTURER: FLOR GRES
STYLE: CHROMTECH/1.0 NATURAL
COLOR: WARM 4.0
SIZE: 12" X 24"
GROUT COLOR: TBD

PFT-2 (A)
PORCELAIN FLOOR TILE
MANUFACTURER: CERAMIC TECHNICS LTD.
STYLE: SONOMA LIFE
COLOR: LAVA
SIZE: 6" X 24"
GROUT COLOR: TBD

PFT-2 (B)
PORCELAIN FLOOR TILE
MANUFACTURER: DAL-TILE
STYLE: VERANDA
COLOR: STEEL P500
SIZE: 6-1/2" X 20"
GROUT COLOR: TBD

PFT-2 (C)
PORCELAIN FLOOR TILE
MANUFACTURER: FLOR GRES
STYLE: CHROMTECH/1.0 NATURAL
COLOR: COOL/5.0
SIZE: 6-1/2" X 20"
GROUT COLOR: TBD

PFT-3 (A)
PORCELAIN FLOOR TILE
MANUFACTURER: CROSSVILLE
STYLE: COLOR BLOX
COLOR: A1103 SLINKY
SIZE: 12" X 12"
GROUT COLOR: TBD

PFT-3 (B)
PORCELAIN FLOOR TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: ULTRA TECH
COLOR: GREY SCALE 7023 UNPOLISHED
SIZE: 12" X 12"
GROUT COLOR: TBD

PFT-3 (C)
PORCELAIN FLOOR TILE
MANUFACTURER: DAL-TILE
STYLE: VERANDA
COLOR: STEEL P500
SIZE: 13" X 13"
GROUT COLOR: TBD

CERAMIC WALL TILE

CT-1 (A)
CERAMIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: URBAN CANVAS
COLOR: 0061-DESIGNER WHITE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-1 (B)
CERAMIC WALL TILE
MANUFACTURER: DAL-TILE
STYLE: MODERN DIMENSIONS
COLOR: MATTE ARCTIC WHITE 0790 (1)
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-1 (C)
CERAMIC WALL TILE
MANUFACTURER: CERAMIC TECHNICS
STYLE: CERABATI GLOBAL
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-2 (A)
CERAMIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: URBAN CANVAS
COLOR: 0004-MT LIGHT SMOKE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-2 (B)
CERAMIC WALL TILE
MANUFACTURER: DAL-TILE
STYLE: MODERN DIMENSIONS
COLOR: MATTE DESERT GREY X714 (1)
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-2 (C)
CERAMIC WALL TILE
MANUFACTURER: CERAMIC TECHNICS
STYLE: CERABATI GLOBAL
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CERAMIC WALL TILE CONTINUED

CT-3 (A)
CERAMIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: URBAN CANVAS FLAT TOP COVE BASE A3481
COLOR: 0061-DESIGNER WHITE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-3 (B)
CERAMIC WALL TILE
MANUFACTURER: DAL-TILE
STYLE: FLAT TOP COVE BASE A3481
COLOR: 0790 MATTE ARCTIC WHITE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-3 (C)
CERAMIC WALL TILE
MANUFACTURER: CERAMIC TECHNICS
STYLE: CERABATI GLOBAL FLAT TOP COVE BASE
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-4 (A)
CERAMIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: URBAN CANVAS BULLNOSE S4849
COLOR: 0061-DESIGNER WHITE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-4 (B)
CERAMIC WALL TILE
MANUFACTURER: DAL-TILE
STYLE: MODERN DIMENSIONS BULL-NOSE S4489
COLOR: 0790 MATTE ARCTIC WHITE
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-4 (C)
CERAMIC WALL TILE
MANUFACTURER: CERAMIC TECHNICS
STYLE: CERABATI GLOBAL BULL-NOSE
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-5 (A)
CERAMIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
STYLE: URBAN CANVAS
COLOR: 0009-MT CAPPUCCINO
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-5 (B)
CERAMIC WALL TILE
MANUFACTURER: DAL-TILE
STYLE: NATURAL HUES
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

CT-5 (C)
CERAMIC WALL TILE
MANUFACTURER: CERAMIC TECHNICS
STYLE: CERABATI GLOBAL
COLOR: TBD
SIZE: 4-1/4" X 8-1/2"
GROUT COLOR: TBD

MARMOLEUM COMPOSITION TILE

MCT-1 (A)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: FORBO INTERNATIONAL
STYLE: MCT
COLOR: EIGER, MCT-629
SIZE: 13" X 13"

MCT-1 (B)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: JOHNSONITE
STYLE: VENETTO TILES
COLOR: 604 CARLSBAD
SIZE: 13" X 13"

MCT-1 (C)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: GERFLOR
STYLE: CLASSIC IMPERIAL
COLOR: TBD
SIZE: 13" X 13"

MCT-2 (A)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: FORBO INTERNATIONAL
STYLE: MCT
COLOR: DOVE GREY, MCT-621
SIZE: 13" X 13"

MCT-2 (B)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: JOHNSONITE
STYLE: VENETTO TILES
COLOR: 685 ICED SLATE
SIZE: 13" X 13"

MCT-2 (C)
MARMOLEUM COMPOSITION TILE
MANUFACTURER: GERFLOR
STYLE: CLASSIC IMPERIAL
COLOR: TBD
SIZE: 13" X 13"

SHEET VINYL

SHV-1 (A)
SHEET VINYL
MANUFACTURER: FORBO
STYLE: ETERNAL WOOD DECIBEL, CUSHION BACKED
COLOR:12792
INSTALLATION: HEAT WELD SEAMS

SHV-1 (B)
SHEET VINYL
MANUFACTURER: PARTERRE
STYLE: REMEDY HEALTH FLOOR, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-1 (C)
SHEET VINYL
MANUFACTURER: GERFLOR
STYLE: TARALAY IMPRESSION COMFORT WOOD, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-2 (A)
SHEET VINYL
MANUFACTURER: FORBO
STYLE: MARMOLEUM DECIBEL, CUSHION BACKED
COLOR:304835 GRAPHITE
INSTALLATION: HEAT WELD SEAMS

SHV-2 (B)
SHEET VINYL
MANUFACTURER: GERFLOR
STYLE: TARALAY PREMIUM COMFORT FUSION STYLE, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-2 (C)
SHEET VINYL
MANUFACTURER: JOHNSONITE
STYLE: GRANIT ACOUSTIFLOR, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-3 (A)
SHEET VINYL
MANUFACTURER: FORBO
STYLE: MARMOLEUM DECIBEL, CUSHION BACKED
COLOR:312035 ROSATO
INSTALLATION: HEAT WELD SEAMS

SHV-3 (B)
SHEET VINYL
MANUFACTURER: JOHNSONITE
STYLE: GRANIT ACOUSTIFLOR, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-3 (C)
SHEET VINYL
MANUFACTURER: GERFLOR
STYLE: TARALAY PREMIUM COMFORT FUSION STYLE, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

CORNER GUARDS

CG (A)
WALL PROTECTION
MANUFACTURER: CS ACROVYN
STYLE: SURFACE MOUNTED CORNER GUARDS
COLOR: CLEAR
FINISH: TBD
SIZE: 60"
COMMENT: PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ON GYPSUM WALLS; REFERENCE PLANS

CG (B)
WALL PROTECTION
MANUFACTURER: KOROGUARD
STYLE: SURFACE MOUNTED CORNER GUARDS
COLOR: CLEAR
FINISH: TBD
SIZE: 60"
COMMENT: PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ON GYPSUM WALLS; REFERENCE PLANS

CG (C)
WALL PROTECTION
MANUFACTURER: IPC
STYLE: SURFACE MOUNTED CORNER GUARDS
COLOR: CLEAR
FINISH: TBD
SIZE: 60"
COMMENT: PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ON GYPSUM WALLS; REFERENCE PLANS

SHEET VINYL CONTINUED

SHV-4 (A)
SHEET VINYL
MANUFACTURER: FORBO
STYLE: MARMOLEUM DECIBEL, CUSHION BACKED
COLOR:262135 DOVE GREY
INSTALLATION: HEAT WELD SEAMS

SHV-4 (B)
SHEET VINYL
MANUFACTURER: JOHNSONITE
STYLE: GRANIT ACOUSTIFLOR, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

SHV-4 (C)
SHEET VINYL
MANUFACTURER: GERFLOR
STYLE: TARALAY PREMIUM COMFORT FUSION STYLE, CUSHION BACKED
COLOR: TBD
INSTALLATION: HEAT WELD SEAMS

EPOXY FLOOR COATING

EFC-1 (A)
EPOXY FLOOR COATING
MANUFACTURER: STONHARD
SYSTEM: STONSHIELD HRI
TEXTURE: MEDIUM
COLOR: TBD
INSTALLATION: PROVIDE URETHANE TOP COAT

EFC-1 (B)
EPOXY FLOOR COATING
MANUFACTURER: GENERAL POLYMERS
TEXTURE: MEDIUM
COLOR: TBD
INSTALLATION: PROVIDE URETHANE TOP COAT

EFC-1 (C)
EPOXY FLOOR COATING
MANUFACTURER: KEY RESIN
TEXTURE: MEDIUM
COLOR: TBD
INSTALLATION: PROVIDE URETHANE TOP COAT

BASES:

RUBBER BASE

RB-1 (A)
RUBBER BASE
MANUFACTURER: ALLSTATE
STYLE: 4" COVE
COLOR: A09
COMMENT: CONTINUOUS ROLL GOODS

RB-1 (B)
RUBBER BASE
MANUFACTURER: JOHNSONITE
STYLE: 4" COVE
COLOR: 40 BLACK
COMMENT: CONTINUOUS ROLL GOODS

RB-1 (C)
RUBBER BASE
MANUFACTURER: ROPPE
STYLE: 4" COVE
COLOR: 100 BLACK
COMMENT: CONTINUOUS ROLL GOODS

WALLS:

PAINT: (A), (B), AND (C) SCHEMES

PT-1
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
GENERAL WALL PAINT

PT-2
PAINT
MANUFACTURER: TBD
FINISH: SEMI-GLOSS
COLOR: TBD
HOLLOW METAL FRAME TRIM AND PAINTED DOORS

PT-3
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT COLOR IN CORRIDORS

PT-4
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT COLOR IN CORRIDORS

PT-5
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT COLOR IN STUDENT CENTER

PT-6
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT PAINT IN DIRECTOR RECEPTION

PT-7
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT PAINT IN OFFICES

PT-8
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT PAINT IN COSMETOLOGY RECEPTION

PT-9
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT PAINT IN COSMETOLOGY LAB

PT-10
PAINT
MANUFACTURER: TBD
FINISH: EGGSHELL
COLOR: TBD
ACCENT PAINT IN MANICURE/PEDICURE/SKIN CARE ROOM

WALL PROTECTION

WP-1 (A)
WALL PROTECTION
MANUFACTURER: CS ACROVYN
STYLE: .040 HIGH IMPACT SHEETHING
COLOR: TBD
FINISH: PEBBLETTE TEXTURE
SIZE: FULL HEIGHT PANELS
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

WP-1 (B)
WALL PROTECTION
MANUFACTURER: KOROGUARD
STYLE: .040 HIGH IMPACT SHEETHING
COLOR: TBD
FINISH: PEBBLETTE TEXTURE
SIZE: FULL HEIGHT PANELS
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

WP-1 (C)
WALL PROTECTION
MANUFACTURER: IPC
STYLE: .040 HIGH IMPACT SHEETHING
COLOR: TBD
FINISH: PEBBLETTE TEXTURE
SIZE: FULL HEIGHT PANELS
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

FIBERGLASS REINFORCED PANELS

FRP-1 (A)
FRP
MANUFACTURER: MARLITE
STYLE: STANDARD PANELS
COLOR: TBD
FINISH: SMOOTH
SIZE: FULL HEIGHT PANELS (FLOOR TO CEILING)
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

FRP-1 (B)
FRP
MANUFACTURER: CRANE COMPOSITES
STYLE: GLASBORD
COLOR: TBD
FINISH: SMOOTH
SIZE: FULL HEIGHT PANELS (FLOOR TO CEILING)
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

FRP-1 (C)
FRP
MANUFACTURER: NUDO PRODUCTS, INC.
STYLE: FIBERCORR
COLOR: TBD
FINISH: SMOOTH
SIZE: FULL HEIGHT PANELS (FLOOR TO CEILING)
COMMENT: PROVIDE INSIDE CORNER MOLDING, VERTICAL TRIM MOLDING, AND 90 DEGREE OUTSIDE CORNER MOLDING

VINYL WALL COVERING

VWC-1 (A)
VINYL WALL COVERING
MANUFACTURER: NATIONAL WALLCOVERING
STYLE: PLEXUS ARROYA
COLOR: XSL-32533 SHADOW
SIZE: 54" WIDE

VWC-1 (B)
VINYL WALL COVERING
MANUFACTURER: LANARK WALLCOVERING
STYLE: TABLEAU
COLOR: TBD
SIZE: 54" WIDE

VWC-1 (C)
VINYL WALL COVERING
MANUFACTURER: COLOUR AND DESIGN
STYLE: TALERA
COLOR: TBD
SIZE: 54" WIDE

VWC-2 (A)
VINYL WALL COVERING
MANUFACTURER: NATIONAL WALLCOVERING
STYLE: PLEXUS ARROYA
COLOR: XSL-32540 DESERT
SIZE: 54" WIDE

VWC-2 (B)
VINYL WALL COVERING
MANUFACTURER: COLOUR AND DESIGN
STYLE: TALERA
COLOR: TBD
SIZE: 54" WIDE

VWC-2 (C)
VINYL WALL COVERING
MANUFACTURER: LANARK WALLCOVERING
STYLE: TABLEAU
COLOR: TBD
SIZE: 54" WIDE

VWC-3 (A)
VINYL WALL COVERING
MANUFACTURER: MDC/BOLTA CONTRACT
STYLE: TICKER SHELL
COLOR: BBBTK11/4130
SIZE: 54" WIDE

VWC-3 (B)
VINYL WALL COVERING
MANUFACTURER: NATIONAL WALLCOVERING
STYLE: PATTY MADDEN LUCA
COLOR: TBD
SIZE: 54" WIDE

VWC-3 (C)
VINYL WALL COVERING
MANUFACTURER: MAHARAM
STYLE: ASSEMBLY 399425
COLOR: 001 CANVAS
SIZE: 54" WIDE

VWC-4 (A)
VINYL WALL COVERING
MANUFACTURER: MDC WALLCOVERING
STYLE: ENCORE COLLECTION VOL. 2
COLOR: COH9351/4130 ORCHESTRA SWING
SIZE: 54" WIDE

VWC-4 (B)
VINYL WALL COVERING
MANUFACTURER: MAHARAM
STYLE: QUARRY 399430
COLOR: TBD
SIZE: 54" WIDE

VWC-4 (C)
VINYL WALL COVERING
MANUFACTURER: COLOUR AND DESIGN
STYLE: TOFINO
COLOR: TBD
SIZE: 54" WIDE

VWC-5 (A)
VINYL WALL COVERING
MANUFACTURER: MDC WALLCOVERING
STYLE: ENCORE COLLECTION VOL. 2
COLOR: COS9201/4130 ORCHESTRA STRIPE SWING
SIZE: 54" WIDE

VWC-5 (B)
VINYL WALL COVERING
MANUFACTURER: WOLF GORDON
STYLE: VALUE BOOK
COLOR: 41792
SIZE: 54" WIDE

VWC-5 (C)
VINYL WALL COVERING
MANUFACTURER: LANARK WALLCOVERING
STYLE: FLAMENCO
COLOR: TBD
SIZE: 54" WIDE

WOOD VENEER DOORS: (A), (B), (C) SCHEMES

WV-1
WOOD VENEER DOORS
SPECIES: PLAIN SLICED MAPLE
STAIN COLOR: TBD
COMMENTS: FACTORY FINISH PER SPECIFICATIONS

CEILINGS:

ACOUSTICAL CEILING TILE

ACT-1 (A)
ACOUSTICAL CEILING TILE
MANUFACTURER: ARMSTRONG
STYLE: ULTIMA BEVELED TEGULAR FINE TEXTURE
COLOR: WHITE
SIZE: 24X24
COMMENTS: 9/16" GRID

ACT-1 (B)
ACOUSTICAL CEILING TILE
MANUFACTURER: USG
STYLE: ECLIPSE CLIMA PLUS
COLOR: WHITE
SIZE: 24X24
COMMENTS: 9/16" GRID

ACT-1 (C)
ACOUSTICAL CEILING TILE
MANUFACTURER: CELOTEX
STYLE: CASHMERE REVEAL EDGE
COLOR: WHITE
SIZE: 24X24
COMMENTS: 9/16" GRID

ACT-2 (A)
ACOUSTICAL CEILING TILE
MANUFACTURER: ARMSTRONG
STYLE: RANDOM FISSURED UNPERFORATED VINYL FACED WITH HUMIGARD
COLOR: WHITE
SIZE: 24X24
COMMENTS: 15/16" EXTERIOR USE RATED GRID

ACT-2 (B)
ACOUSTICAL CEILING TILE
MANUFACTURER: USG
STYLE: ORIAN 210 CLIMA PLUS UNPERFORATED VINYL FACE
COLOR: WHITE
SIZE: 24X24
COMMENTS: 15/16" EXTERIOR USE RATED GRID

ACT-2 (C)
ACOUSTICAL CEILING TILE
MANUFACTURER: CELOTEX
STYLE: VERSATONE UNPERFORATED FIBERGLASS VINYL FACED
COLOR: WHITE
SIZE: 24X24
COMMENTS: 15/16" EXTERIOR USE RATED GRID

OTHER:

PLASTIC LAMINATE

PL-1 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: AE021 GRAPHITE SPECTRUM, SUEDE
COMMENT: COUNTERTOPS AT TESTING AREA AND COPY AREA

PL-1 (B)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: CHARCOAL MATRIX MR6002T
COMMENT: COUNTERTOPS AT TESTING AREA AND COPY AREA

PL-1 (C)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: 4623-60 GRAPHITE NEBULA
COMMENT: COUNTERTOPS AT TESTING AREA AND COPY AREA

PL-2 (A)
PLASTIC LAMINATE
MANUFACTURER: WILSONART LAMINATE
COLOR/STYLE: 4844-60 LODEN ZEPHYR
COMMENT: VERTICAL SURFACES AT TESTING AREA AND COPY AREA

PL-2 (B)
PLASTIC LAMINATE
MANUFACTURER: FORMICA
COLOR/STYLE: NATURE SOLIDZ 7815-58
COMMENT: VERTICAL SURFACES AT TESTING AREA AND COPY AREA

PL-2 (C)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: SAGE SV720
COMMENT: VERTICAL SURFACES AT TESTING AREA AND COPY AREA

PLASTIC LAMINATE CONTINUED

PL-3 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: AG611 GRAVEYARD OF THE ATLANTIC
COMMENT: VERTICAL SURFACES AT STUDENT CENTER

PL-3 (B)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: BLACK LODESTONE LD6001T
COMMENT: VERTICAL SURFACES AT STUDENT CENTER

PL-3 (C)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: 4879-38 STEEL MESH
COMMENT: VERTICAL SURFACES AT STUDENT CENTER

PL-4 (A)
PLASTIC LAMINATE
MANUFACTURER: LAMIN-ART
COLOR/STYLE: 5051-T PUMICE EDGEWEAVE, TEXTURED
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-4 (B)
PLASTIC LAMINATE
MANUFACTURER: LIRI
COLOR/STYLE: G32 ESSE MUSK ROCK
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-4 (C)
PLASTIC LAMINATE
MANUFACTURER: FORMICA
COLOR/STYLE: 6214-58 SEAGRASS STRAND
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-5 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: SG209 PUTTY GRAY, SUEDE
COMMENT: VERTICAL SURFACES AT COSMETOLOGY

PL-5 (B)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: PUTTY S6005T
COMMENT: VERTICAL SURFACES AT COSMETOLOGY

PL-5 (C)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: 1503-60 PUTTY
COMMENT: VERTICAL SURFACES AT COSMETOLOGY

PL-6 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: SV720 SAGE, SUEDE
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-6 (B)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: D478-60 AMAZON
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-6 (C)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: PAPIER CACHE PR5002T
COMMENT: VERTICAL SURFACES AT COSMETOLOGY RECEPTION DESK

PL-7 (A)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: 4845-60 TWILIGHT ZEPHYR
COMMENT: VERTICAL SURFACES AT VET TECH LAB

PL-7 (B)
PLASTIC LAMINATE
MANUFACTURER: FORMICA
COLOR/STYLE: PAINTED SCREEN 3695-58
COMMENT: VERTICAL SURFACES AT VET TEACH LAB

PL-7 (C)
PLASTIC LAMINATE
MANUFACTURER: LAMINART
COLOR/STYLE: 5029 ORIAN
COMMENT: VERTICAL SURFACES AT VET TECH LAB

PL-8 (A)
PLASTIC LAMINATE
MANUFACTURER: LAMINART
COLOR/STYLE: 4003-A SILVERGLINT
COMMENT: RESTROOM SINK APRONS

PL-8 (B)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: TAUPE SERENITY AG441
COMMENT: RESTROOM SINK APRONS

PL-8 (C)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: PURE SPUN YARN YSN002T
COMMENT: RESTROOM SINK APRONS

PL-9 (A)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: WOOD GRAIN; COLOR TO MATCH DOORS
COMMENT: VERTICAL SURFACES AT RECEPTION AND SECURITY DESKS

PL-9 (B)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: WOOD GRAIN; COLOR TO MATCH DOORS
COMMENT: VERTICAL SURFACES AT RECEPTION AND SECURITY DESKS

PL-9 (C)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: WOOD GRAIN; COLOR TO MATCH DOORS
COMMENT: VERTICAL SURFACES AT RECEPTION AND SECURITY DESKS

PL-10 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: GRAPHITE TALC AG361
COMMENT: COUNTER TOP SURFACES

PL-10 (B)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: TO MATCH PL-10 (A)
COMMENT: COUNTER TOP SURFACES

PL-10 (C)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: TO MATCH PL-10 (A)
COMMENT: COUNTER TOP SURFACES

PL-11 (A)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: FOUNDRY S2084T
COMMENT: COUNTER TOP SURFACES

PL-11 (B)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: TO MATCH PL-11 (A)
COMMENT: COUNTER TOP SURFACES

PL-11 (C)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: TO MATCH PL-11 (A)
COMMENT: COUNTER TOP SURFACES

PL-12 (A)
PLASTIC LAMINATE
MANUFACTURER: PIONITE
COLOR/STYLE: WHITE FIESTA MW550
COMMENT: COUNTER TOP SURFACES

PL-12 (B)
PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR/STYLE: TO MATCH PL-12 (A)
COMMENT: COUNTER TOP SURFACES

PL-12 (C)
PLASTIC LAMINATE
MANUFACTURER: NEVAMAR
COLOR/STYLE: TO MATCH PL-12 (A)
COMMENT: COUNTER TOP SURFACES

SOLID SURFACE MATERIAL

SS-1
NOT USED

SS-2 (A)
SOLID SURFACE MATERIAL
MANUFACTURER: SILESTONE
COLOR: BLANCO MAPLE 4001
COMMENT: COUNTERTOP AT RESTROOM COUNTERTOPS

SS-2 (B)
SOLID SURFACE MATERIAL
MANUFACTURER: DUPONT - ZODIAQ
COLOR: CLOUD WHITE
COMMENT: COUNTERTOP AT RESTROOM COUNTERTOPS

SS-2 (C)
SOLID SURFACE MATERIAL
MANUFACTURER: CAMBRIA- CLASSIC COLLECTION
COLOR: SNOWDON WHITE 0110
COMMENT: COUNTERTOP AT RESTROOM COUNTERTOPS

SS-3
NOT USED

CUBICLE CURTAIN

CC-1 (A)
CUBICLE CURTAIN FABRIC
MANUFACTURER: ARCHITEX
STYLE: REMEDE RX6001
COLOR: STEM
COMMENTS: CUBICLE CURTAINS AT COSMETOLOGY

CC-1 (B)
CUBICLE CURTAIN FABRIC
MANUFACTURER: MAHARAM
STYLE: SENTIMENT 511430
COLOR: TBD
COMMENTS: CUBICLE CURTAINS AT COSMETOLOGY

CC-1 (C)
CUBICLE CURTAIN FABRIC
MANUFACTURER: DESIGN TEX
STYLE: DRAKE
COLOR: TBD
COMMENTS: CUBICLE CURTAINS AT COSMETOLOGY

CC-2 (A)
CUBICLE CURTAIN FABRIC
MANUFACTURER: ARCHITEX
STYLE: REMEDE RX6001
COLOR: SEED
COMMENTS: CUBICLE CURTAINS AT CMA/CNA LABS

CC-2 (B)
CUBICLE CURTAIN FABRIC
MANUFACTURER: MAHARAM
STYLE: SENTIMENT 511420
COLOR: TBD
COMMENTS: CUBICLE CURTAINS AT CMA/CNA LABS

CC-2 (C)
CUBICLE CURTAIN FABRIC
MANUFACTURER: CARNEGIE
STYLE: 4260 TERRA FIRMA
COLOR: 21
COMMENTS: CUBICLE CURTAINS AT CMA/CNA LABS

TACKABLE SURFACE

TS-1 (A)
TACKABLE SURFACE
MANUFACTURER: FORBO
STYLE: BULLETIN BOARD
COLOR: 2162
COMMENTS: TWO 4X8 SHEETS. PROVIDE ALUMINUM TRIM PIECES

TS-1 (B)
TACKABLE SURFACE
MANUFACTURER: RJF INTERNATIONAL
STYLE: WALL TALKERS BULLETIN BOARD
COLOR: TBD
COMMENTS: TWO 4X8 SHEETS. PROVIDE ALUMINUM TRIM PIECES

TS-1 (C)
TACKABLE SURFACE
MANUFACTURER: MDC WALLCOVERING
STYLE: BULLETIN BOARD
COLOR: TBD
COMMENTS: TWO 4X8 SHEETS. PROVIDE ALUMINUM TRIM PIECES

TS-2 (A)
TACKABLE SURFACE
MANUFACTURER: FORBO
STYLE: BULLETIN BOARD
COLOR: 2067
COMMENTS: REFERENCE ELEVATIONS FOR SIZE. PROVIDE ALUMINUM TRIM PIECES

TS-2 (B)
TACKABLE SURFACE
MANUFACTURER: RJF INTERNATIONAL
STYLE: WALL TALKERS BULLETIN BOARD
COLOR: TBD
COMMENTS: REFERENCE ELEVATIONS FOR SIZE. PROVIDE ALUMINUM TRIM PIECES

TS-2 (C)
TACKABLE SURFACE
MANUFACTURER: MDC WALLCOVERING
STYLE: BULLETIN BOARD
COLOR: TBD
COMMENTS: REFERENCE ELEVATIONS FOR SIZE. PROVIDE ALUMINUM TRIM PIECES

ACRYLIC PANELS

AP-1 (A)
ACRYLIC PANELS
MANUFACTURER: 3-FORM
STYLE: VARIA CONNECTION
GUAGE: 1/4"
COLOR: PASSION
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-1 (B)
ACRYLIC PANELS
MANUFACTURER: LUMICOR
STYLE: MIX WOODGRAIN
GUAGE: 1/4"
COLOR: TBD
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-1 (C)
ACRYLIC PANELS
MANUFACTURER: KNOLL
STYLE: IMAGO
GUAGE: 1/4"
COLOR: WHISPER RED
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-2 (A)
ACRYLIC PANELS
MANUFACTURER: LUMICOR
STYLE: WOODLAND COLLECTION
GUAGE: 1/4"
COLOR: NATURAL
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-2 (B)
ACRYLIC PANELS
MANUFACTURER: VERITAS
STYLE: NADIA
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-2 (C)
ACRYLIC PANELS
MANUFACTURER: 3-FORM
STYLE: VARIA BUMBLE
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-3 (A)
ACRYLIC PANELS
MANUFACTURER: LUMICOR
STYLE: WOODLAND COLLECTION
GUAGE: 1/4"
COLOR: NATURAL
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-3 (B)
ACRYLIC PANELS
MANUFACTURER: VERITAS
STYLE: NADIA
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-3 (C)
ACRYLIC PANELS
MANUFACTURER: 3-FORM
STYLE: VARIA BUMBLE
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-4 (A)
ACRYLIC PANELS
MANUFACTURER: LUMICOR
STYLE: COASTAL COLLECTION
GUAGE: 1/4"
COLOR: NATURAL
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS IN COSMETOLOGY

AP-4 (B)
ACRYLIC PANELS
MANUFACTURER: VERITAS
STYLE: SAVANNAH
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZES; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

AP-4 (C)
ACRYLIC PANELS
MANUFACTURER: 3-FORM
STYLE: SEAWEED
GUAGE: 1/4"
COLOR: NONE
COMMENTS: SEE ELEVATION FOR PANEL SIZE; PROVIDE 1/2" DIA. STAINLESS STEEL STANDOFFS

EXTERIOR MATERIALS

MV-01
BRICK VENEER - TYP FIELD
MANUFACTURER: CHEROKEE BRICK AND TILE CO.
STYLE / COLOR: PROVIDENCE
NOM. SIZE: UTILITY
PATTERN: RUNNING BOND
MORTER COLOR: BUFF TAN
COMMENTS: TYPICAL BRICK VENEER, U.N.O. REF: 04 2100 MASONRY VENEER.

MV-02
BRICK VENEER - ACCENT TRIM
MANUFACTURER: CHEROKEE BRICK AND TILE CO.
STYLE / COLOR: OXFORD BROWN
NOM. SIZE: UTILITY
PATTERN: PER ELEVATION
MORTER COLOR: BUFF TAN
COMMENTS: LINEAR ACCENT BOND, RECESS FACE 1/2" FROM TYP. FACE. REF: 04 2100 MASONRY VENEER

MV-05
STONE VENEER - FIELD
MANUFACTURER: NATURAL QUARRIED
STYLE: TENNESSEE FIELDSTONE
NOM. SIZE: 4" X 12" UP TO 4" X 24"
PATTERN: RANDOM, DRY STACK
MORTER COLOR: BUFF TAN
COMMENTS: INSTALL IN RANDOM DRY STACK PATTERN, RAKE JOINTS MAX 1" FROM FACE. MAX SURFACE VARIATION FROM PLUMB FACE +/- 3/4" EITHER DIRECTION, REF 04 2100

ACS-01
ARCHITECTURAL CAST STONE
MANUFACTURER: -
STYLE: INDIANA LIMESTONE
TEXTURE: FINE GRAINED
NOM. SIZE: 8 X 48, U.N.O.
MORTER COLOR: BUFF TAN
COMMENTS: POSITION PER DETAILS, REF 04 7200 CAST STONE MASONRY

AGP-1
INTERIOR ALUMINUM GLAZED PARTITION
MANUFACTURER: DESIGN STANDARD - KAWNEER
STYLE: TRIFAB II 450
COLOR: AF-1
COMMENTS: 4 1/2" X 1 3/4" MULLIONS, CENTER SET GLAZING

AWS-1
GLAZED ALUMINUM WALL SYSTEM - 7 1/2"
MAUNUFACTURER: DESIGN STANDARD - KAWNEER
STYLE: 1600 SYSTEM 1 & 2
COLOR: AF-1
COMMENTS: 7 1/2" X 2 1/2" VERTICALS, SILLS AND TOP HEAD. 6" 2 1/2" INTERMEDIATE HORIZONTALS

AWS-2
GLAZED ALUMINUM WALL SYSTEM - 6"
MAUNUFACTURER: DESIGN STANDARD - KAWNEER
STYLE: 1600 SYSTEM 1 & 2
COLOR: AF-1
COMMENTS: 6" X 2 1/2" TYPICAL

AF-1
PAINTED ALUMINUM FINISH
MANUFACTURER: DESIGN STANDARD - KAWNEER
PRODUCT: PERMAFLUOR
COLOR: DOVE GRAY # UC109848
COMMENTS: HIGH PERFORMANCE COATING

CMP-1
COMPOSITE METAL PANEL
MANUFACTURER:
PRODUCT: WET SEAL PANELS
COLOR: AF-1
COMMENTS: SEE COMPOSITE METAL PANEL SPECIFICATION

NOTES:

1. ALL (A) FINISHES ARE INTENDED TO GO TOGETHER. SAME APPLIES TO (B) AND (C) FINISHES.
2. FINAL FINISH SELECTIONS TO BE APPROVED BY ARCHITECT.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA010744
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FINISH LEGEND

SHEET NO.
A3.40

PLOT DATE: 4/18/2011 2:28:27 PM TEMPLATE VERSION: 2.5.0.20100809

FLOOR TRANSITIONS

METAL STRIPS

TYPE FT-17

TYPE FT-15

TYPE FT-16

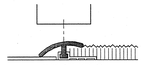
TYPE FT-14

VINYL MOULDINGS

TYPE FT-13

TYPE FT-10

TYPE FT-12

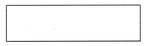


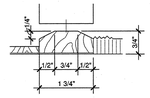
TYPE FT-9

TYPE FT-11

TYPE FT-8

WOOD

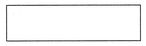




TYPE FT-7

MARBLE

THICK SET BED



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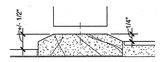

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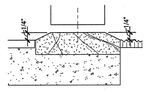

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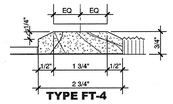
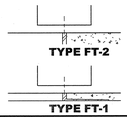


TYPE FT-4

TERRAZZO

TYPE FT-3



TYPE FT-2

TYPE FT-1

REVISION	ROOM NUMBER	ROOM NAME	LOCATION FLOOR	LOCATION BASE	WALLS WEST (PAGE NORTH)	WALLS NORTH (PAGE EAST)	WALLS EAST (PAGE SOUTH)	WALLS SOUTH (PAGE WEST)	CEILING	REMARKS
	1.001	ENTRY VESTIBULE	PFT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PAINTED GWB	
	1.002	CIRCULATION	PFT-1, PFT-2	RB-1	PT-1, PT-3	PT-4, PT-1	PT-3, PT-1	PT-1	ACT-1	REFERENCE ELEVATIONS
	1.003	WOMENS RESTROOM	PFT-3	CT-3	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	ACT-1	REFERENCE ELEVATIONS
	1.004	MENS RESTROOM	PFT-3	CT-3	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	ACT-1	REFERENCE ELEVATIONS
	1.005	ELEVATOR VESTIBULE	PFT-1	RB-1	PT-1	PT-4	PT-1	PT-1	PAINTED GWB	AP-1 PANEL MOUNTED ON SOUTH WALL; REFERENCE ELEVATIONS
	1.006	STAIR 01	MCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	RB-1 AT LANDINGS, PAINT ALL METAL WORK AND STRUCTURE
	1.007	STAIR 02	MCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	RB-1 AT LANDINGS, PAINT ALL METAL WORK AND STRUCTURE
	1.008	JAN.	SEALED CONCRETE	RB-1	WP-1	WP-1	WP-1	WP-1	OPEN TO STRUCTURE	FULL HEIGHT ON ALL WALLS
	1.009	PASSAGE	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.100	STUDENT CENTER	CPT-1, PFT-1	RB-1	PT-1	PT-1, PT-5	PT-1, PT-5	PT-1	OPEN TO FLOOR ABOVE	REFERENCE ELEVATIONS
	1.101	VENDING	PFT-1	RB-1	PT-1	PT-3	PT-3	PT-3	ACT-1	
	1.102	BOOKSTORE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.200	RECEPTION AREA	CPT-1	RB-1	PT-8	PT-1	PT-1	PT-1	ACT-1	
	1.201	CAMPUS DIRECTOR OFFICE	CPT-2	RB-1	VWC-3	VWC-3	VWC-3	VWC-3	ACT-1	
	1.202	STUDENT SERVICES OFFICE	CPT-2	RB-1	PT-1, PT-7	PT-1, PT-7	PT-1, PT-7	PT-1, PT-7	ACT-1	REFERENCE ELEVATIONS
	1.203	COPY AREA	MCT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.204	FACULTY MEN'S	PFT-3	CT-3	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	ACT-1	REFERENCE ELEVATIONS
	1.205	FACULTY WOMEN'S	PFT-3	CT-3	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	CT-1, CT-4, CT-5, VWC-5	ACT-1	REFERENCE ELEVATIONS
	1.206	CAMPUS DIRECTOR OFFICE	CPT-2	RB-1	VWC-3	VWC-3	VWC-3	VWC-3	ACT-1	
	1.207	TESTING AREA	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.208	PARTITION ROOM								
	1.300	COSMETOLOGY RECEPTION	SHV-1	RB-1	PT-1	PT-8	PT-1	PT-1	ACT-1	AP-4 PANEL MOUNTED ON WEST WALL IN RECEPTION; REFERENCE ELEVATIONS
	1.301	COSMETOLOGY LAB	SHV-1	RB-1	PT-9	PT-9	PT-1	PT-9	ACT-1	
	1.302	MANICURE / PEDICURE / SKIN CARE LAB	SHV-1	RB-1	PT-1	PT-9	PT-1, PT-10	PT-1, PT-10	ACT-1	CC-1CURTAIN AT SKIN CARE STATIONS, AP-3 AND AP-4 PANELS ON WALL OVER BEDS, REFERENCE ELEVATIONS
	1.303	COSMETOLOGY CLASSROOM	SHV-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.304	COSMETOLOGY CORRIDOR	SHV-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.305	DISPENSARY	SHV-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.306	SUPPORT STORAGE	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.307	INSTRUCTOR OFFICE	SHV-1	RB-1	PT-7	PT-1	PT-1	PT-1	ACT-1	
	1.401	CLASSROOM GENERAL EXPANDABLE-1	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.402	CLASSROOM GENERAL EXPANDABLE-2	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.403	CLASS STOR.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.404	CLASS STOR.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.445	ENTRY VESTIBULE	PFT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PAINTED GWB	
	1.501	TELE/ DATA	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.502	BLDG. STOR./ RECEIVING	SEALED CONCRETE	NONE	PT-1	PT-1	PT-1	PT-1	ACT-1	
	1.503	ELEC.	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.504	PUMP ROOM	SEALED CONCRETE	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.505	MAIN TELE DATA ROOM	SEALED CONCRETE	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.506	MAIN ELEC.	SEALED CONCRETE	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.601	WELDING CLASSROOM	EFC-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-2	
	1.602	WELDING SHOP	SEALED CONCRETE	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.603	INSTRUCTOR'S OFFICE	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	
	1.604	WELDING STORAGE	SEALED CONCRETE	NONE	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
	1.701	CONSTRUCTION CLASSROOM	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	
	1.702	PLUMBING/ ELECTRICAL CONSTRUCTION LAB	EFC-1	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	1.703	INSTRUCTOR'S OFFICE	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	
	1.704	PLUMBING STORAGE	EFC-1	NONE	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
	1.705	ELECTRICAL STORAGE	EFC-1	NONE	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
	1.801	INSTRUCTIONAL CLASSROOM	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	
	1.802	AUTOMOTIVE LAB	EFC-1	NONE	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	
	1.803	INSTRUCTOR'S OFFICE	EFC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-2	
	1.804	PARTS STORAGE	EFC-1	NONE	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
	1.805	TOOL CHECKOUT	EFC-1	NONE	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
	2.001	TELE / DATA ROOM	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.002	STAIR 02	MCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	RB-1 AT LANDINGS, PAINT ALL METAL WORK AND STRUCTURE
	2.003	ELEVATOR	PIT-1	SEE SPECS	SEE SPECS	SEE SPECS	SEE SPECS	SEE SPECS	SEE SPECS	
	2.004	DATA / ELEC	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	
	2.005	MEN'S RESTROOM	PFT-3	CT-3	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	ACT-1	REFERENCE ELEVATIONS
	2.006	WOMEN'S RESTROOM	PFT-3	CT-3	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	CT-1, CT-2, CT-4, VWC-4	ACT-1	REFERENCE ELEVATIONS
	2.007	STAIR 01	MCT-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	RB-1 AT LANDINGS, PAINT ALL METAL WORK AND STRUCTURE
	2.012	CIRCULATION	CPT-1, CPT-3	RB-1	PT-1	PT-4, PT-1	PT-3, PT-1	PT-1	ACT-1	AP-1 PANEL AT SOUTH SIDE OF ELEVATOR VESTIBULE; REFERENCE ELEVATIONS
	2.017	MAC LAB CLASSROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.101	LARGE CLASSROOM / COMP. LAB	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.102	GENERAL CLASSROOM VET TECH LAB	CPT-2, MCT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.103	PHOTO SUPPORT	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.104	CNA LAB	SHV-2, SHV-3, SHV-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	CC-2 CURTAIN AT BED AREA
	2.105	CMA LAB	SHV-2, SHV-3, SHV-4	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	CC-2 CURTAIN AT BED AREA
	2.108	CMA/CNA STOR. & LDRY	SHV-2	RB-1	WP-1	WP-1	WP-1	WP-1	ACT-2	FULL HEIGHT ON ALL WALLS
	2.109	GENERAL COMP. CLASSROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.201	LIBRARY	CPT-1	NONE	VWC-2	VWC-2	VWC-2	VWC-2	ACT-1	
	2.208	JAN. CLOSET	SEALED CONCRETE	RB-1	WP-1	WP-1	WP-1	WP-1	OPEN TO STRUCTURE	FULL HEIGHT ON ALL WALLS
	2.209	ELEV. EQUIP.	SEALED CONCRETE	RB-1	PT-2	PT-2	PT-2	PT-2	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.301	BUILDING STORAGE	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.302	BUILDING STORAGE	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.303	BUILDING STORAGE	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.401	FACULTY WORK AREA	MCT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
	2.402	INSTRUCTORS OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-7	PT-1	ACT-1	
	2.403	MECH. ROOM	SEALED CONCRETE	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN TO STRUCTURE	PAINT EXPOSED STRUCTURE
	2.404	INSTRUCTORS OFFICE	CPT-2	RB-1	PT-7	PT-1	PT-1	PT-1	ACT-1	

FINISH GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 01052 INTERIOR DESIGN SELECTION FOR DEFINITION OF INTERIOR MATERIAL DESIGNATIONS
2. ALL INTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES SHALL BE PAINTED PT-2 UNLESS NOTED OTHERWISE.
3. R = REFERENCE REMARKS.
4. ALL GYP BOARD SOFFITS SHALL BE PAINTED PT-1
5. ALL METAL PORTIONS OF STAIR SHALL BE PAINTED UNLESS NOTED OTHERWISE.
6. REFERENCE A2 SERIES DRAWINGS FOR FLOOR PATTERN/ FINISH EXTENT PLANS.
7. REFERENCE A3 SERIES DRAWINGS FOR MILLWORK INFORMATION.
8. REFERENCE A3 SERIES DRAWINGS FOR INTERIOR SPECIALTY ELEVATIONS.
9. REFERENCE A3 FOR TYPICAL FLOORING TRANSITIONS DETAILS.
10. WELDING ROD AT WELDED SEAMS IN SHEET VINYL SHALL MATCH THE DARKER OF THE SHEET VINYL COLORS AT SEAMS THAT DIVIDE TWO COLORS UNLESS NOTED OTHERWISE.
11. REFERENCE A3.60 SERIES DRAWINGS FOR FINISHES ON INTERIOR ELEVATIONS

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

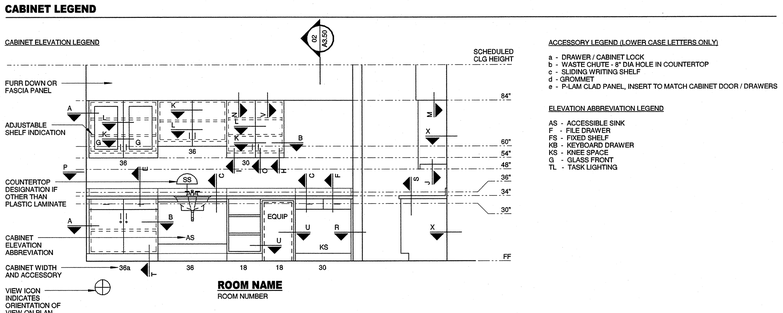
ISSUE
BID SET

SHEET TITLE
FINISH SCHEDULE

SHEET NO.
A3.41

PLOT DATE: 4/18/2011 2:28:30 PM TEMPLATE VERSION: 2.5.0(10/0069

CABINET LEGEND



ACCESSORY LEGEND (LOWER CASE LETTERS ONLY)

a - DRAWER / CABINET LOCK
b - WASTE CHUTE - 8" DIA HOLE IN COUNTERTOP
c - SLIDING WRITING SHELF
d - GROMMET
e - P-LAM CLAD PANEL, INSERT TO MATCH CABINET DOOR / DRAWERS

ELEVATION ABBREVIATION LEGEND

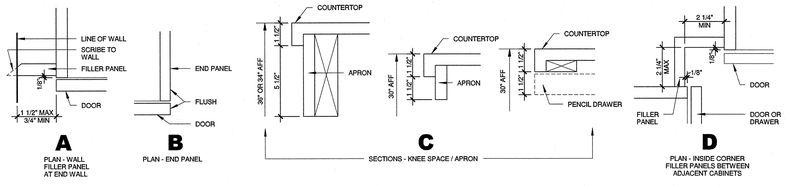
AS - ACCESSIBLE SINK
F - FILE DRAWER
FS - FIXED SHELF
KB - KEYBOARD DRAWER
KS - KNEE SPACE
G - GLASS FRONT
TL - TASK LIGHTING

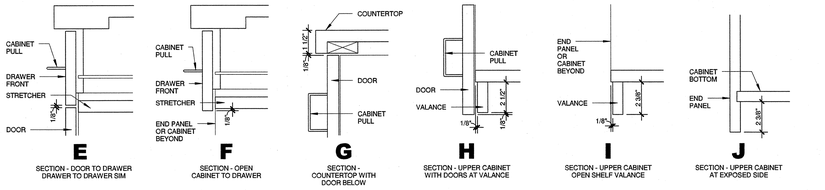
CABINET GENERAL NOTES

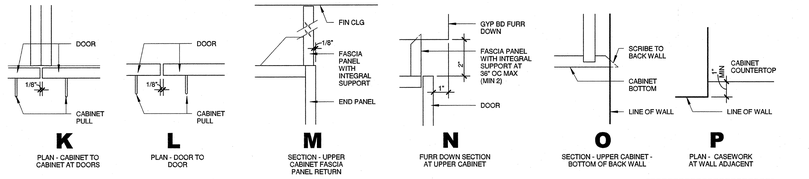
1. CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3" UNO.
2. PROVIDE FILLER PANELS TO FINISH OUT TO SCRIBE CABINETS TO WALL.
3. PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.
4. PROVIDE FINISHED END PANELS END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS.
5. PROVIDE 1 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE SPACES.
6. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
7. PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
8. PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES.
9. PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS AND AT THE FOLLOWING LOCATIONS:
   - 1 EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE.
   - WIRE ACCESS HOLES WITH GROMMETS AT 36" OC FOR CONTINUOUS RUNS OF KNEE SPACE.
   - 1 WIRE ACCESS GROMMET BEHIND EACH KEYBOARD DRAWER.
   - 1 COMPUTER PAPER SLOT GROMMET BEHIND EACH PRINTER.
10. PROVIDE ADJUSTABLEKENT SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS UNO ON ELEVATIONS:
    - BASE CABINET - 1 SHELF
    - FULL HEIGHT CABINET - 5 SHELVES, 1 FIXED.
    - WALL CABINET - 1 SHELF AT 24" HIGH, 2 SHELVES AT TALLER CABINETS

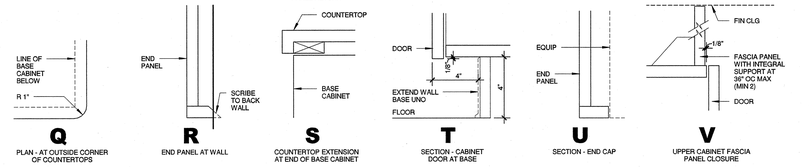
    NOTE: SHELVES TO BE 3/4" THICK FOR SPANS UP TO 32" AND 1" THICK FOR SPANS UP TO 36".
11. GLASS FRONTS TO BE 1/4" THICK CLEAR TEMPERED GLASS UNO.
12. PROVIDE AN APRON AT ALL KNEE SPACES 30" OR HIGHER UNO.

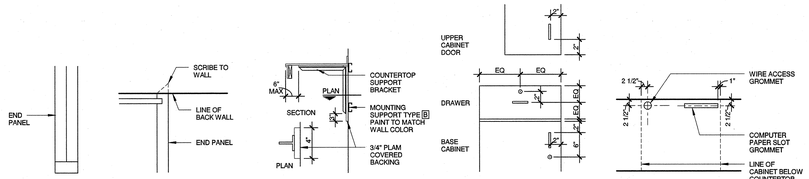
ARCHITECTURAL CABINET TYPICAL DETAILS





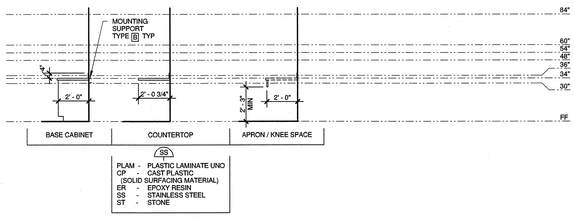




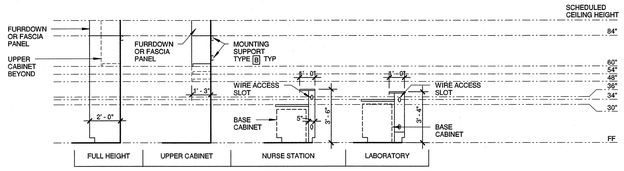


TYPICAL CABINET DIMENSIONS

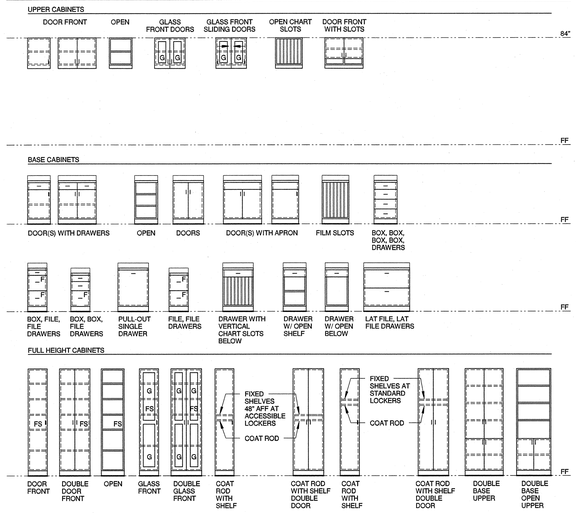
NOTE: ALL CABINET DIMENSIONS GIVEN ARE NOMINAL.

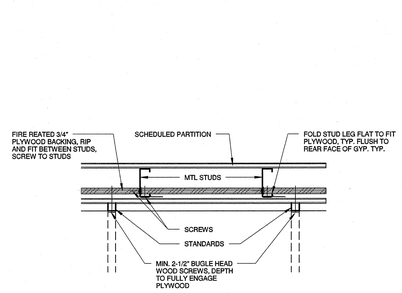


SS
PLAM - PLASTIC LAMINATE UNO
CP - CAST PLASTIC (SOLID SURFACING MATERIAL)
ER - EPOXY RESIN
SS - STAINLESS STEEL
ST - STONE



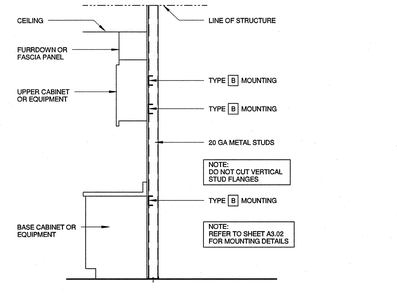
CABINET TYPES





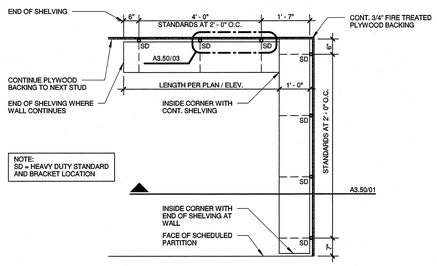
03 PLYWOOD BLOCKING INSTALLATION DETAIL

1 1/2" = 1'-0"



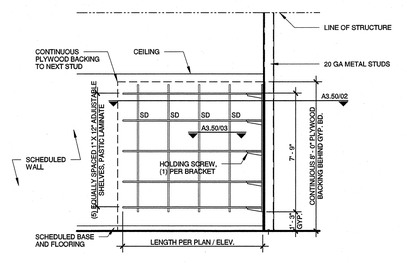
21 TYPICAL STUD WALL SUPPORTING EQUIPMENT AND CABINETRY1

1/4" = 1'-0"



02 ADJUSTABLE SHELVING SYSTEM - PLAN DETAIL

1/2" = 1'-0"



PLASTIC LAMINATE VARIES. REFERENCE ELEVATION

01 ADJUSTABLE SHELVING SYSTEM - SECTION

1/4" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1850 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
CABINET INFORMATION

SHEET NO.
A3.50

PLOT DATE:
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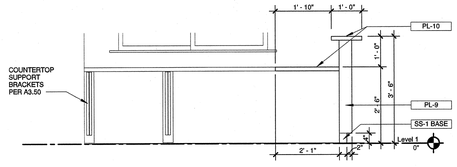
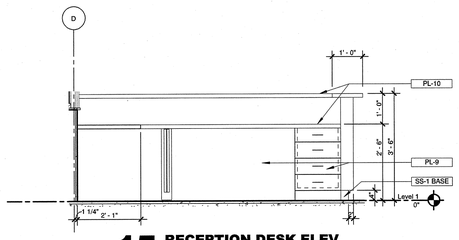


16 RECEPTION DESK ELEV.
1/2" = 1'-0"



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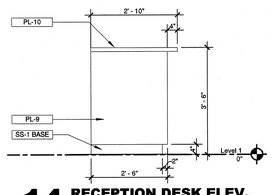
1/2" = 1'-0"



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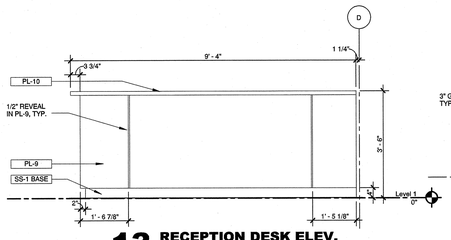

13 RECEPTION DESK ELEV.
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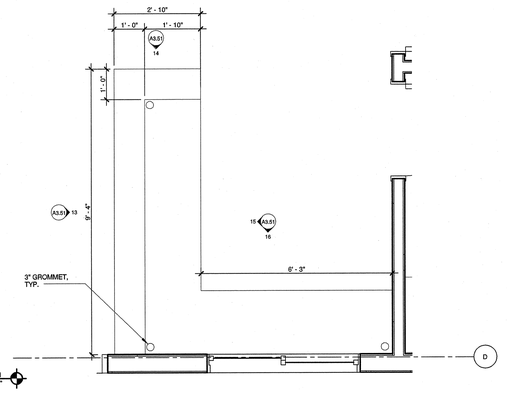

12 RECEPTION DESK
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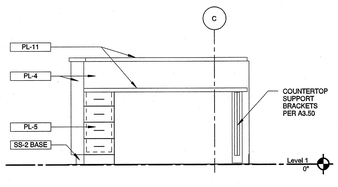

11 COSMETOLOGY RECEPTION DESK ELEV.
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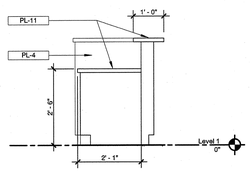

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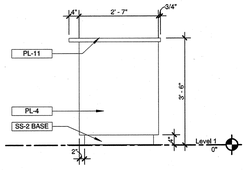

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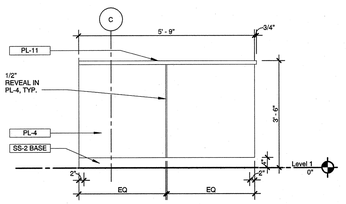
1/2" = 1'-0"



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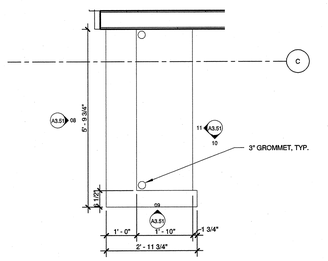

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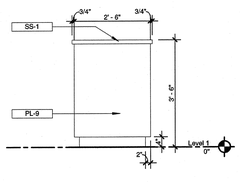

06 SECURITY DESK ELEVATION
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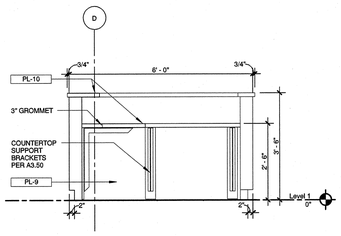

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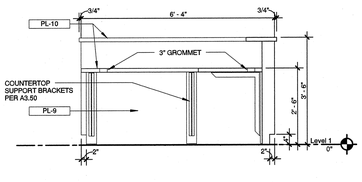

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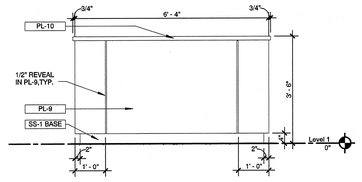
1/2" = 1'-0"



03 SECURITY DESK ELEVATION
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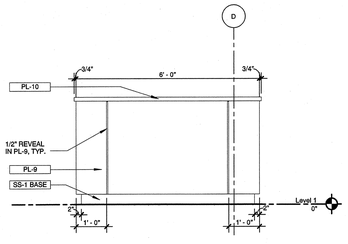

02 SECURITY DESK ELEVATION
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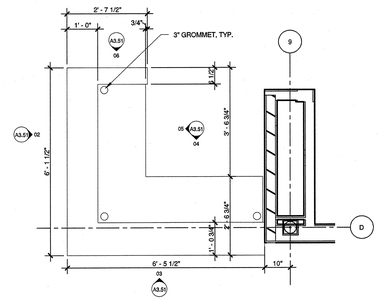

01 SECURITY DESK
1/2" = 1'-0"

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ATLANTA, GA 30303

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PROJECT #: TCSG-236

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USING AGENCY
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1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA015844
REGISTERED ARCHITECT

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
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SHEET NO.
A3.51

PLOT DATE:
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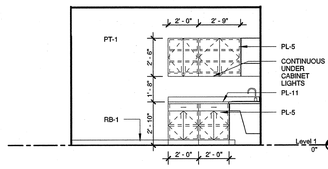
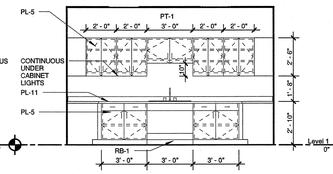
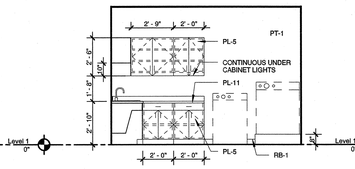


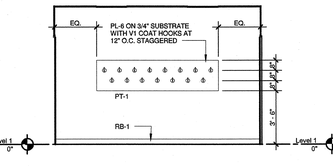
30 1.305 WEST ELEVATION
1/4" = 1'-0"



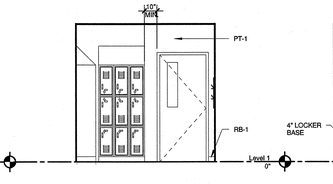
29 1.305 NORTH ELEVATION
1/4" = 1'-0"



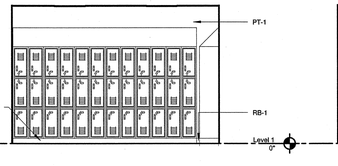
28 1.305 EAST ELEVATION
1/4" = 1'-0"



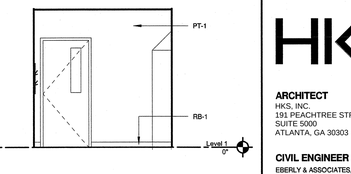
27 1.304 NORTH ELEVATION
1/4" = 1'-0"



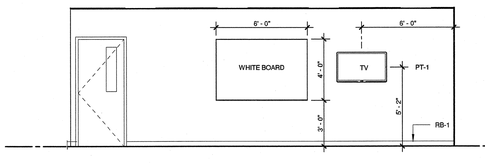
26 1.304 WEST ELEVATION
1/4" = 1'-0"



25 1.304 SOUTH ELEVATION
1/4" = 1'-0"



24 1.304 EAST ELEVATION
1/4" = 1'-0"



23 1.303 SOUTH ELEVATION
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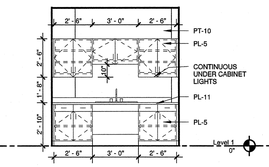
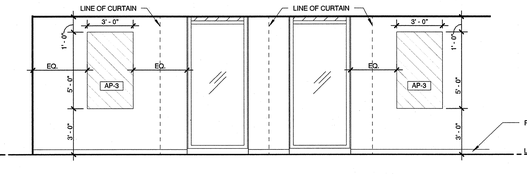
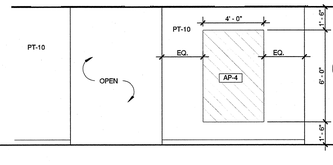


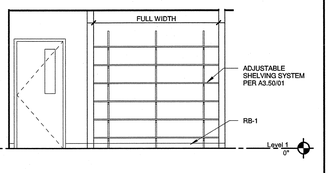
22 1.302 WEST ELEVATION
1/4" = 1'-0"



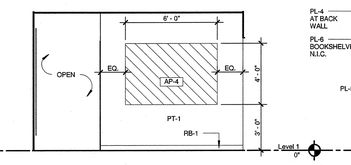
21 1.302 SOUTH ELEVATION
1/4" = 1'-0"



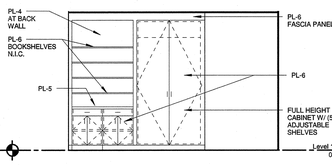
20 1.302 NORTH ELEVATION
1/4" = 1'-0"



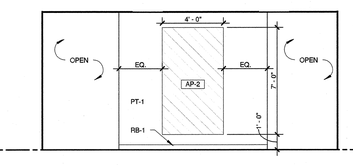
19 1.301 NORTH ELEVATION
1/4" = 1'-0"



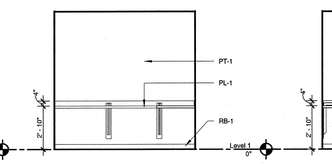
18 1.300 SOUTH ELEVATION
1/4" = 1'-0"



17 1.300 NORTH ELEVATION
1/4" = 1'-0"



16 1.300 EAST ELEVATION
1/4" = 1'-0"



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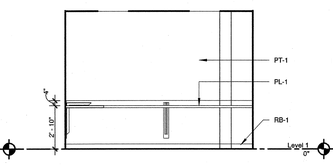
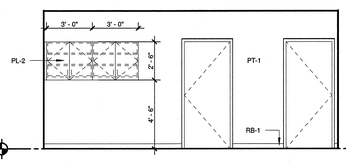
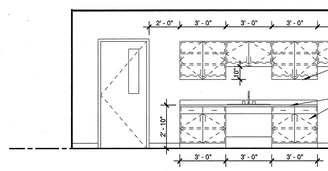


14 1.207 EAST ELEVATION
1/4" = 1'-0"



13 1.203 WEST ELEVATION
1/4" = 1'-0"



12 1.203 EAST ELEVATION
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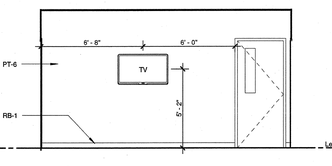

11 1.200 WEST ELEVATION
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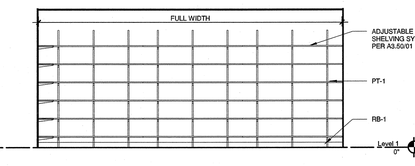
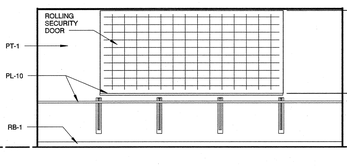
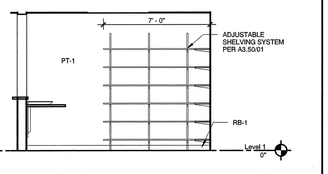


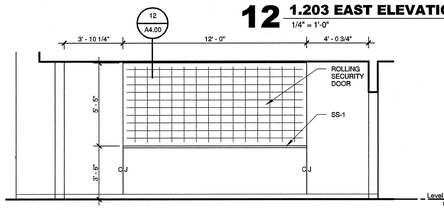
10 1.102 WEST ELEVATION
1/4" = 1'-0"



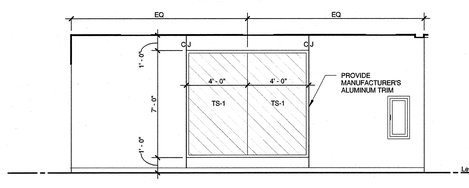
09 1.102 EAST ELEVATION
1/4" = 1'-0"



08 1.102 SOUTH ELEVATION
1/4" = 1'-0"



12 1.203 EAST ELEVATION
1/4" = 1'-0"



07 1.101 WEST ELEVATION
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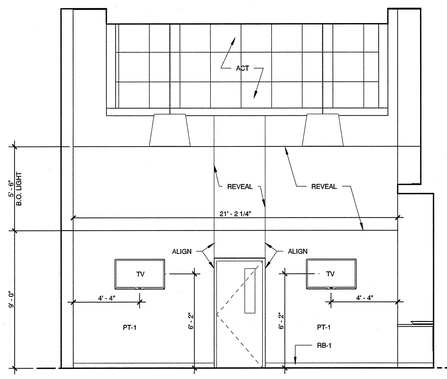
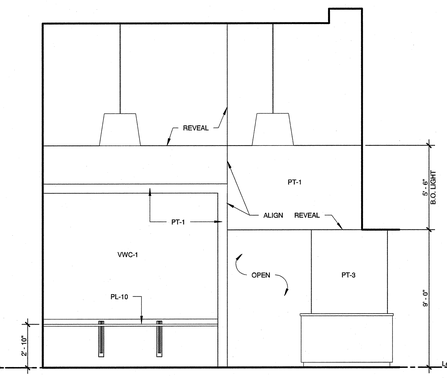
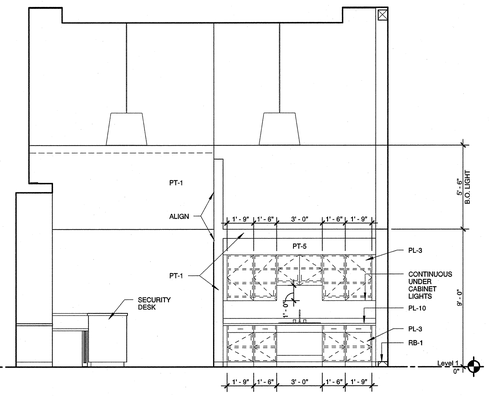


06 1.002 NORTH ELEVATION
1/4" = 1'-0"

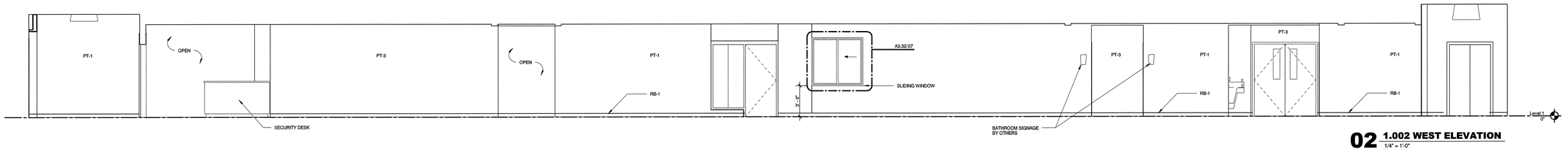


05 1.100 WEST ELEVATION
1/4" = 1'-0"

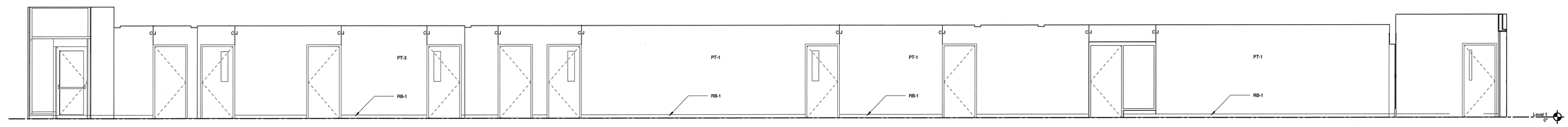


04 1.100 NORTH ELEVATION
1/4" = 1'-0"

03 1.100 EAST ELEVATION
1/4" = 1'-0"



02 1.002 WEST ELEVATION
1/4" = 1'-0"



01 1.002 EAST ELEVATION
1/4" = 1'-0"

HKS

ARCHITECT
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191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA021174
REGISTERED ARCHITECT
APR 11

KEY PLAN

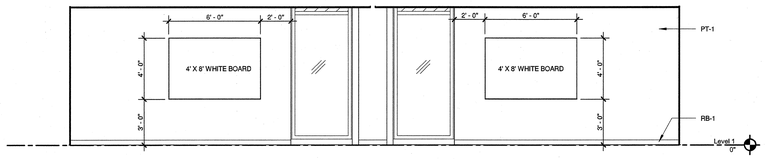
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

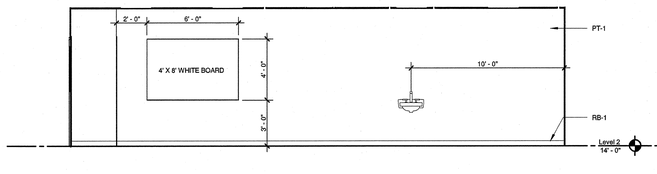
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A3.60

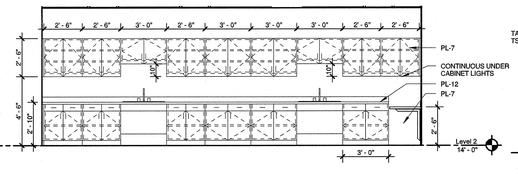
PLOT DATE: 4/19/2011 2:29:01 PM TEMPLATE VERSION: 2.5.0.20100909



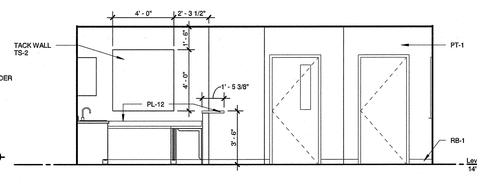
18 EXPANDABLE CLASSROOMS EAST ELEVATION
1/4" = 1'-0"



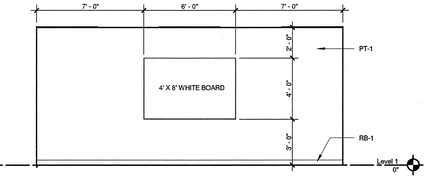
17 CNA/CMA ELEVATION
1/4" = 1'-0"



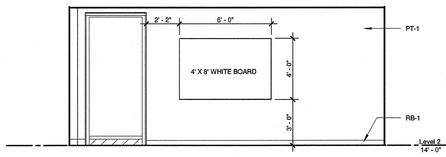
16 CNA/CMA ELEVATION
1/4" = 1'-0"



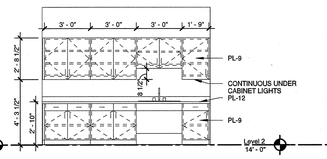
15 CNA/CMA ELEVATION
1/4" = 1'-0"



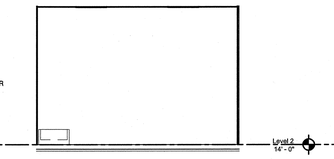
14 TYP. CLASSROOM ELEVATION
1/4" = 1'-0"



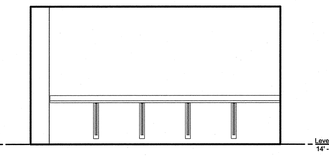
13 TYP. CLASSROOM ELEVATION
1/4" = 1'-0"



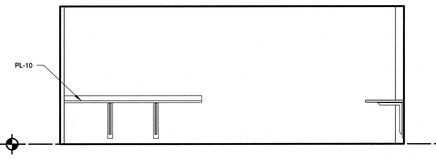
12 2.401 SOUTH ELEVATION
1/4" = 1'-0"



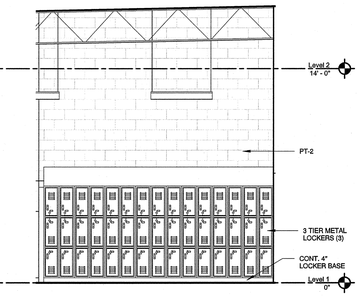
11 2.208 SOUTH ELEVATION
1/4" = 1'-0"



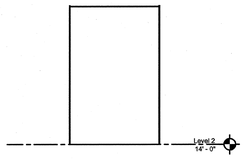
10 2.201 WEST ELEVATION
1/4" = 1'-0"



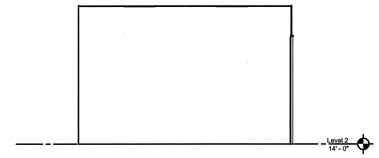
09 2.201 SOUTH ELEVATION
1/4" = 1'-0"



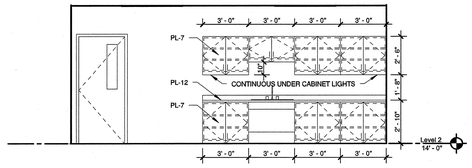
04 1.802 NORTH ELEVATION
1/4" = 1'-0"



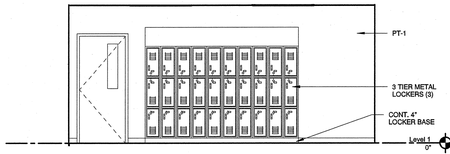
08 2.103 NORTH ELEVATION
1/4" = 1'-0"



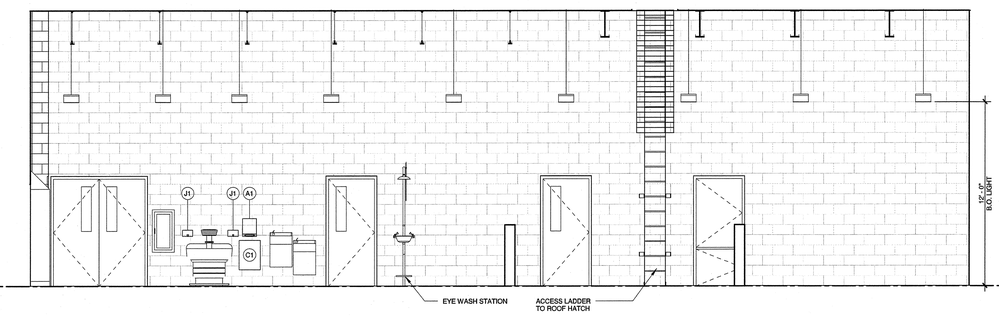
07 2.103 EAST ELEVATION
1/4" = 1'-0"



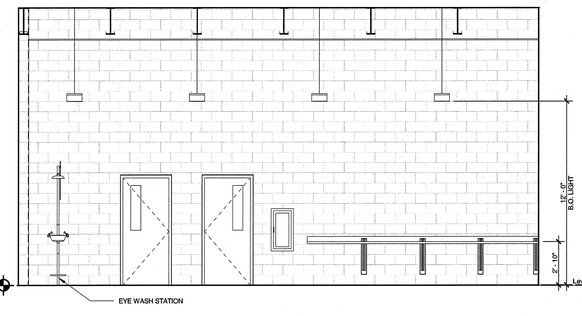
06 2.102 WEST ELEVATION
1/4" = 1'-0"



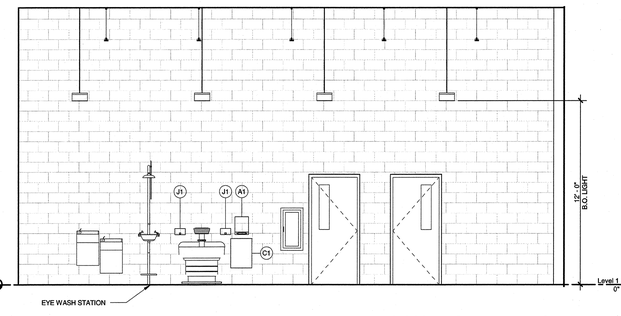
05 1.601 SOUTH ELEVATION
1/4" = 1'-0"



03 1.802 EAST ELEVATION
1/4" = 1'-0"



02 1.702 EAST ELEVATION
1/4" = 1'-0"



01 1.602 EAST ELEVATION
1/4" = 1'-0"

PLOT DATE: 4/19/2011 2:29:12 PM
TEMPLATE VERSION: 2.5.0.0100909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

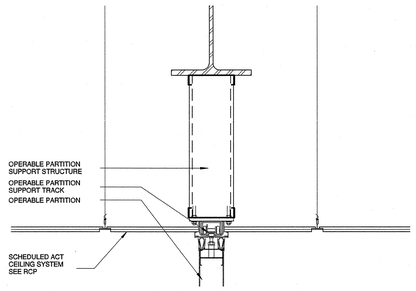
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

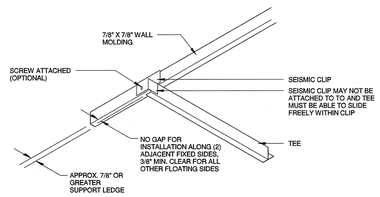
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A3.61

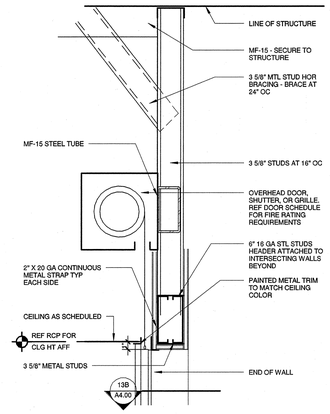


18 OPERABLE PARTITION DETAIL
1 1/2" = 1'-0"

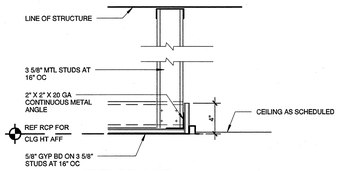


PERIMETER ATTACHMENT DETAIL WITH SEISMIC CLIPS

17 PERIMETER CEILING GRID ATTACHMENT FOR SEISMIC CONDITION C
NTS

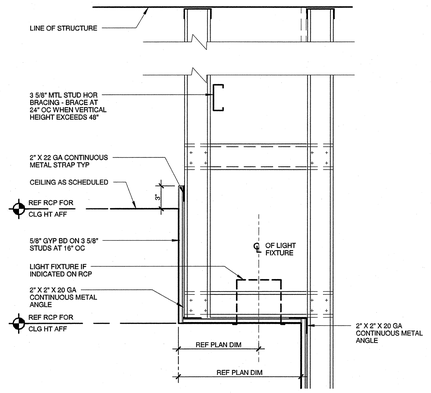


12 SECTION AT OVERHEAD ROLLING SHUTTER, DOOR, OR GRILLE
1 1/2" = 1'-0"

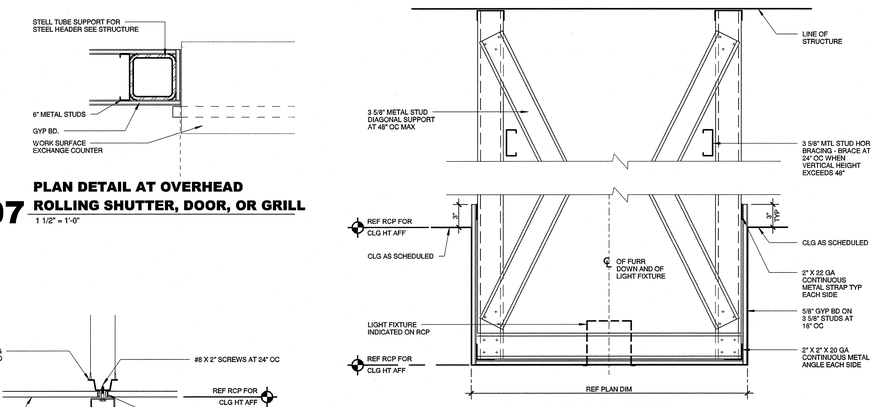


GYP BD/ACT

04 TRANSITION DETAIL
1 1/2" = 1'-0"

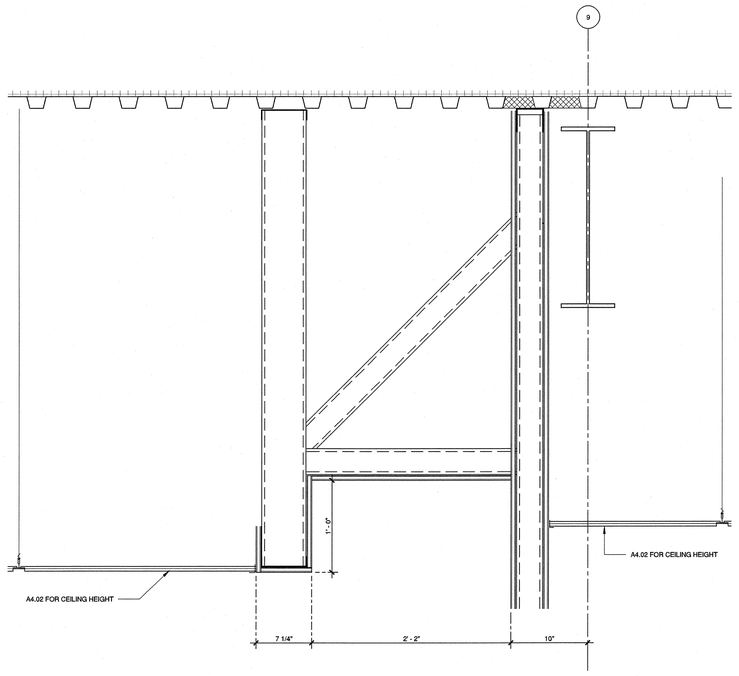


03 FURR DOWN DETAIL
1 1/2" = 1'-0"



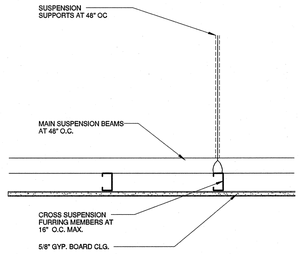
02 FURR DOWN DETAIL
1 1/2" = 1'-0"

02 FURR DOWN DETAIL
1 1/2" = 1'-0"



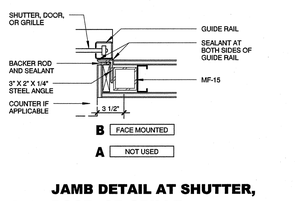
15 CEILING DETAIL AT STUDENT CENTER
1 1/2" = 1'-0"

07 PLAN DETAIL AT OVERHEAD ROLLING SHUTTER, DOOR, OR GRILL
1 1/2" = 1'-0"

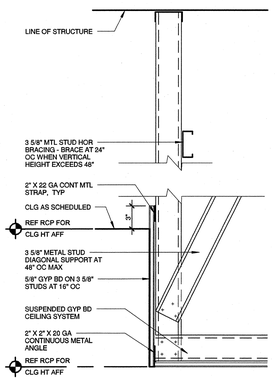


16 TYP. GYP. CLG. DETAIL
1 1/2" = 1'-0"

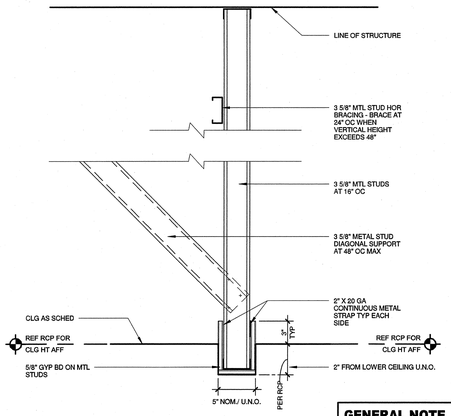
06 CURTAIN TRACK
1 1/2" = 1'-0"



13 JAMB DETAIL AT SHUTTER, DOOR, OR GRILLE
1 1/2" = 1'-0"



05 SOFFIT DETAIL1
1 1/2" = 1'-0"



01 FURR DOWN DETAIL
1 1/2" = 1'-0"

GENERAL NOTE

REFERENCE A9.00 AND A9.01 FOR PARTITION TYPES AND FRAMING INFORMATION.

PLOT DATE: 4/18/2011 2:29:17 PM TEMPLATE VERSION: 2.6.0.20100909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA015213
REGISTERED ARCHITECT
14 APR 11

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

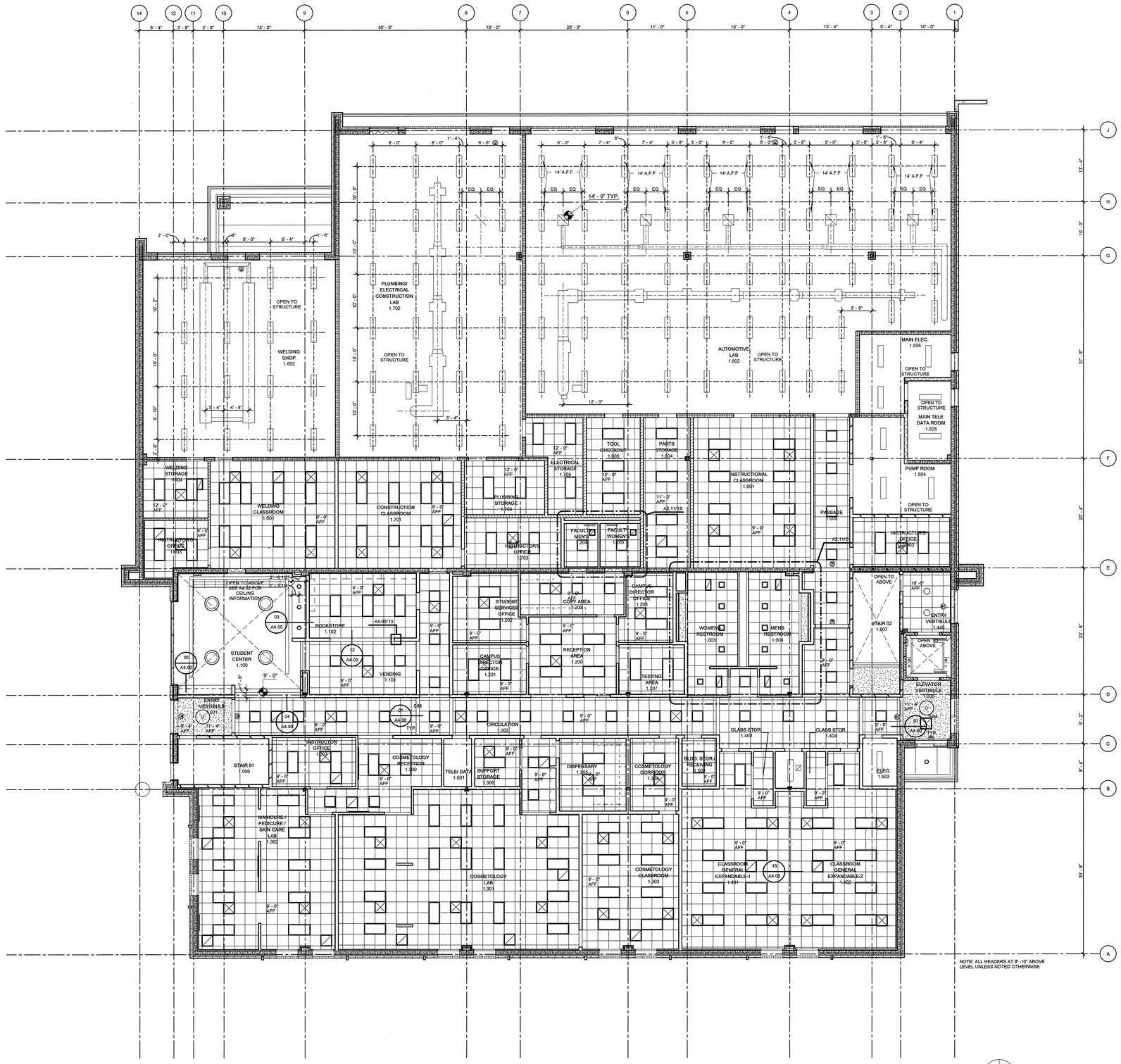
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
CEILING DETAILS

SHEET NO.
A4.00

CEILING SYMBOLS

GYP BD CEILING	SMOKE DETECTOR
SUPPLY AIR	WALL WASHER
RETURN AIR	PENDANT TYPE LIGHT FIXTURE
ACCESS PANEL	WALL MOUNTED LIGHT FIXTURE
FLUORESCENT LIGHT	DOWNLIGHT
WALL MOUNTED FLUORESCENT FIXTURE	STRIP LIGHT
EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION	SPEAKER
	PJ = CMP - 1 PANEL JOINT



NOTE: ALL HEADERS AT 8'-10" ABOVE LEVEL UNLESS NOTED OTHERWISE

N

01 STUDENT CENTER CEILING DETAIL
1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA017414
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

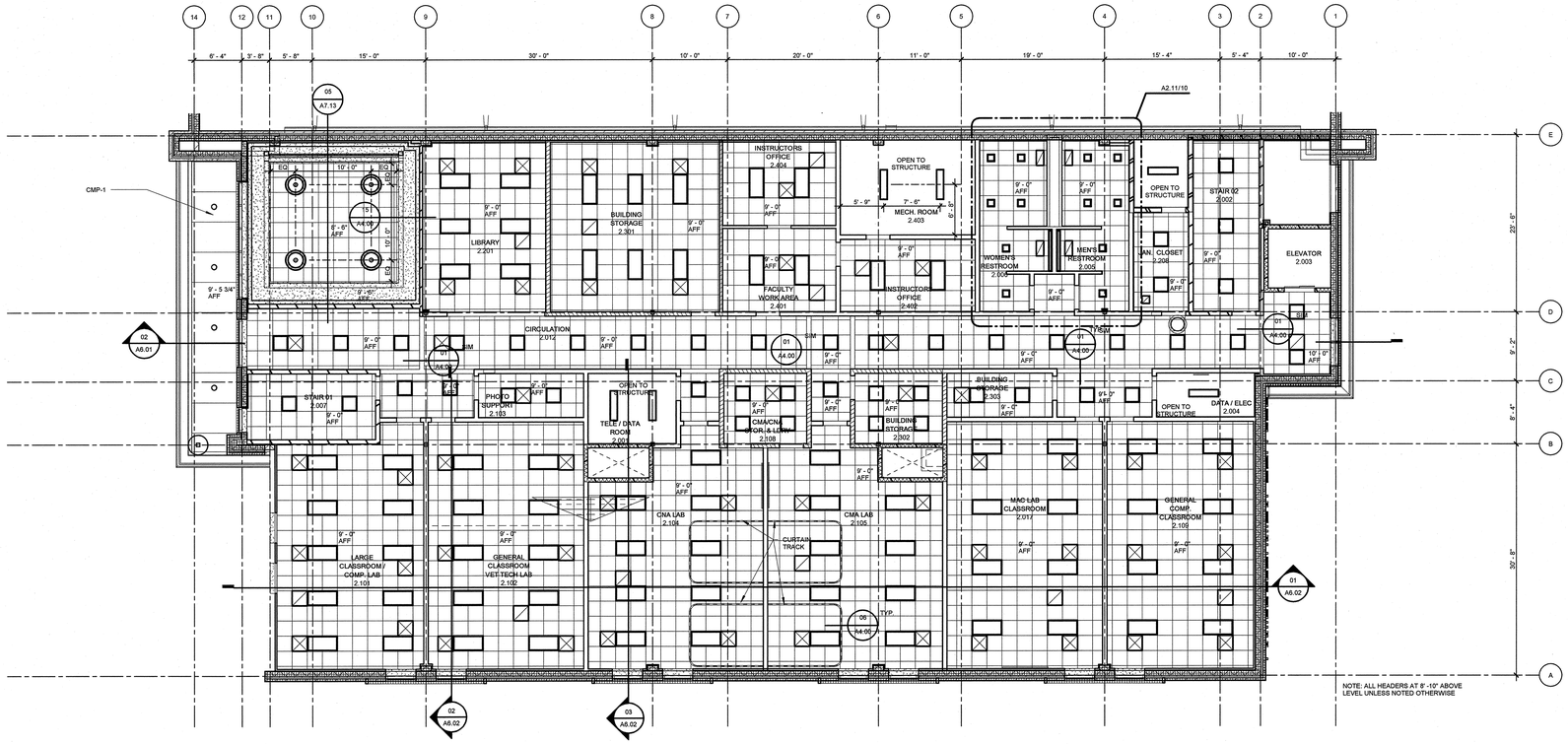
SHEET TITLE
LEVEL 1 RCP

SHEET NO.
A4.01

PLOT DATE: 4/18/2011 4:17:09 PM TEMPLATE VERSION: 2.5.0.20100909

CEILING SYMBOLS

- GYP BD CEILING
- SUPPLY AIR
- RETURN AIR
- ACCESS PANEL
- FLUORESCENT LIGHT
- WALL MOUNTED FLUORESCENT FIXTURE
- EXIT SIGNS - HATCH INDICATES EXIT TEXT AND ARROW INDICATES DIRECTION
- SMOKE DETECTOR
- WALL WASHER
- PENDANT TYPE LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- DOWNLIGHT
- STRIP LIGHT
- SPEAKER
- PJ = CMP - 1 PANEL JOINT



N **01 LEVEL 2 RCP**
1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

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EBERLY & ASSOCIATES, INC.
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ATLANTA, GA. 30345

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WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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NOTTINGHAM, BROOK & PENNINGTON, INC.
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BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

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1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA012...
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
LEVEL 2 RCP

SHEET NO.
A4.02

PLOT DATE: 4/19/2011 4:17:10 PM TEMPLATE VERSION: 2.5.0.20100809

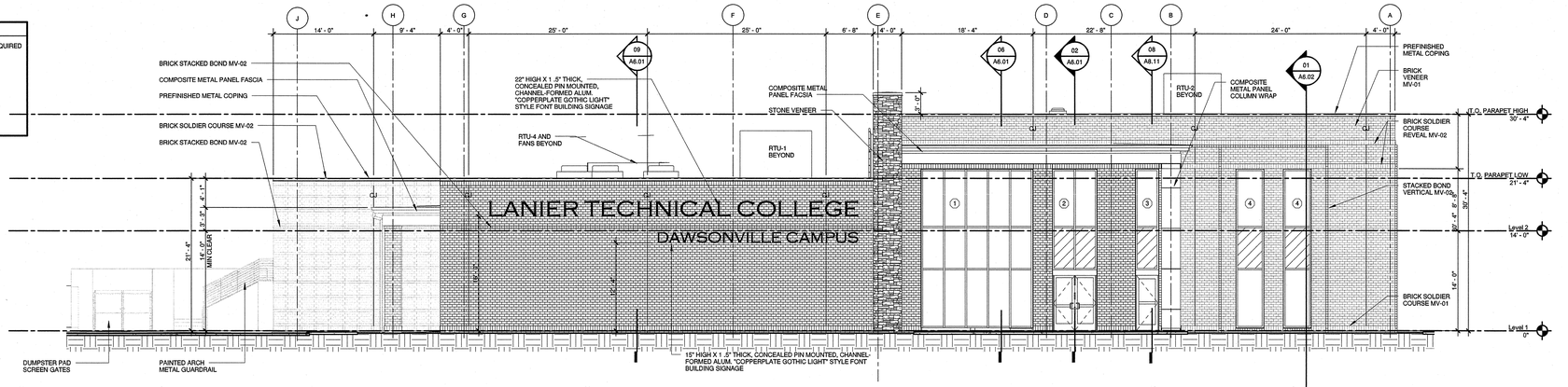
CONTROL JOINT NOTE

1. CONTROL JOINTS UNLESS NOTED OTHERWISE TO ALIGN WITH OPENINGS WHERE INDICATED AND BE PLACED 4' - 0" EITHER SIDE OF OUTSIDE CORNERS AND BE 24' - 0" O.C. MAX
2. CONTROL JOINTS IN CMU WALLS AND BRICK VENEER TO ALIGN

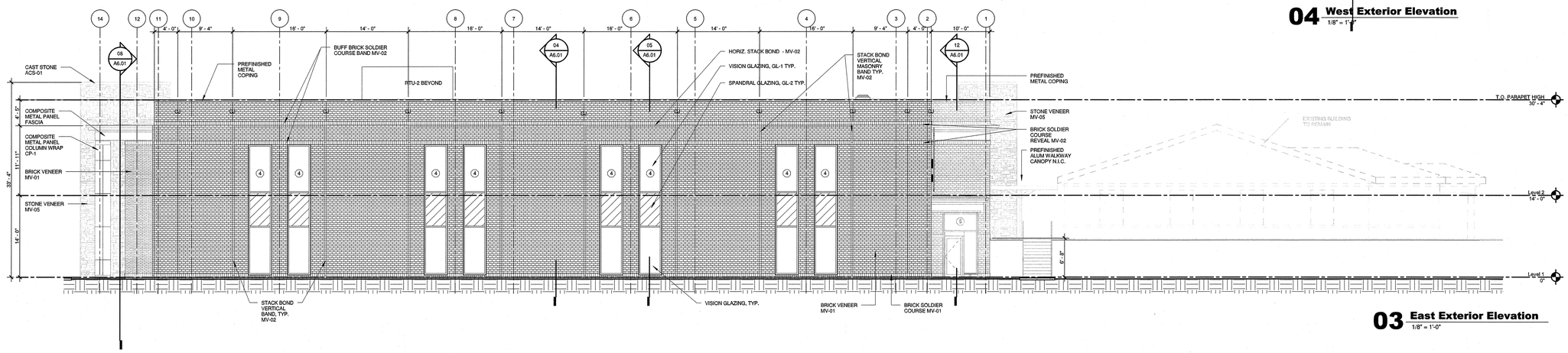
GLAZING LEGEND

GL-1 INSULATED VISION GLASS TEMPERED WHERE REQUIRED
GL-2 INSULATED SPANDREL GLASS
GL-3 INSULATED VISION GLASS TEMPERED
GL-4 1/4" CLEAR ANNEALED GLASS
GL-5 1/4" CLEAR TEMPERED GLASS
GL-6 NOT USED
GL-7 1/2" CLEAR TEMPERED GLASS

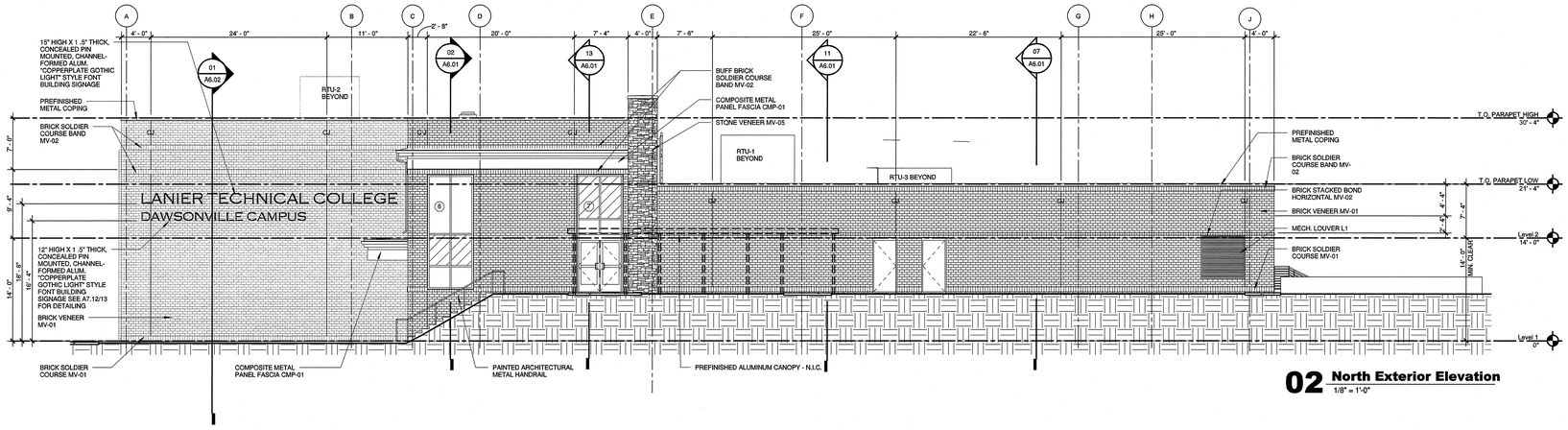
SEE A3.31 FOR REQUIRED LOCATIONS



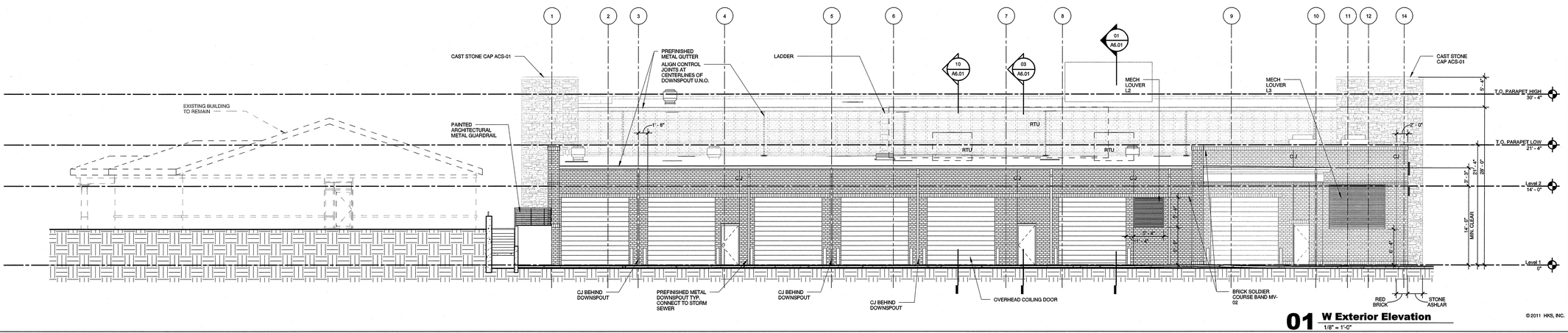
04 West Exterior Elevation
1/8" = 1'-0"



03 East Exterior Elevation
1/8" = 1'-0"



02 North Exterior Elevation
1/8" = 1'-0"



01 W Exterior Elevation
1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA015214
REGISTERED ARCHITECT
19 APR 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

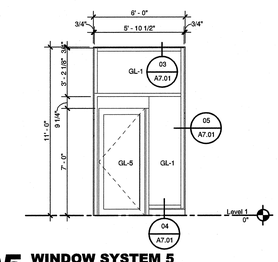
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A5.01

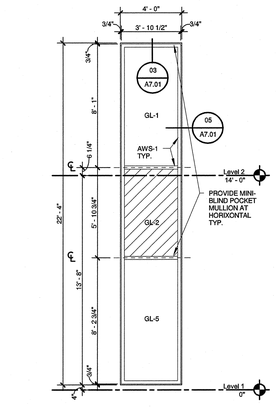
PLOT DATE:
4/18/2011 2:29:35 PM TEMPLATE VERSION: 2.5.0.20100809

GLAZING LEGEND	
GL-1	INSULATED VISION GLASS TEMPERED WHERE REQUIRED
GL-2	INSULATED SPANDREL GLASS
GL-3	INSULATED VISION GLASS TEMPERED
GL-4	1/4" CLEAR ANNEALED GLASS
GL-5	1/4" CLEAR TEMPERED GLASS
GL-6	NOT USED
GL-7	1/2" CLEAR TEMPERED GLASS

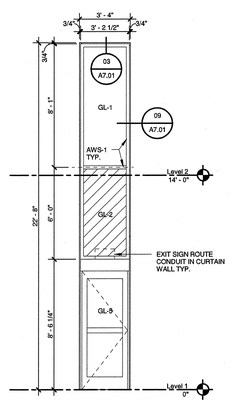
SEE A3.31 FOR REQUIRED LOCATIONS



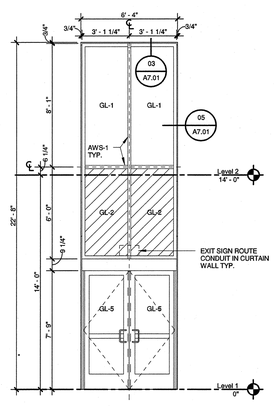
05 WINDOW SYSTEM 5
1/4" = 1'-0"



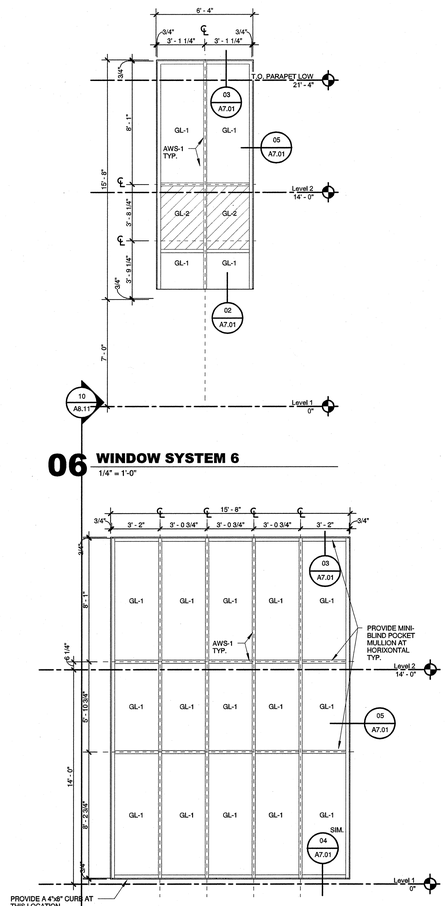
04 WINDOW SYSTEM 4
1/4" = 1'-0"



03 WINDOW SYSTEM 3
1/4" = 1'-0"



02 WINDOW SYSTEM 2
1/4" = 1'-0"



01 WINDOW SYSTEM 1
1/4" = 1'-0"

07 WINDOW SYSTEM 7
1/4" = 1'-0"

06 WINDOW SYSTEM 6
1/4" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
DESIGNATED NO. RA012743
REGISTERED ARCHITECT
19 APR 11

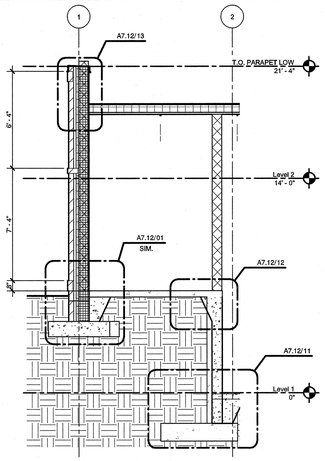
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

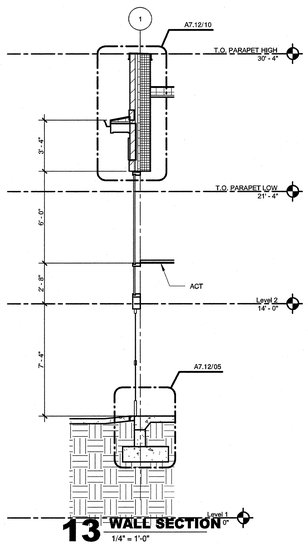
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
WINDOWS AND CURTAIN WALL SCHEDULE
SHEET NO.
A5.21

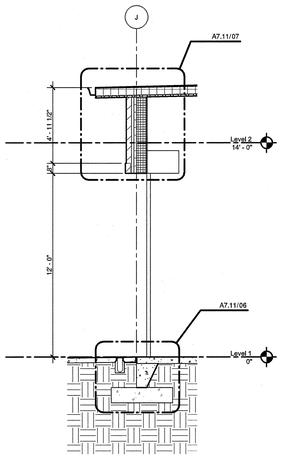
PLOT DATE:
4/19/2011 2:29:43 PM TEMPLATE VERSION: 2.5.0.0.0100809



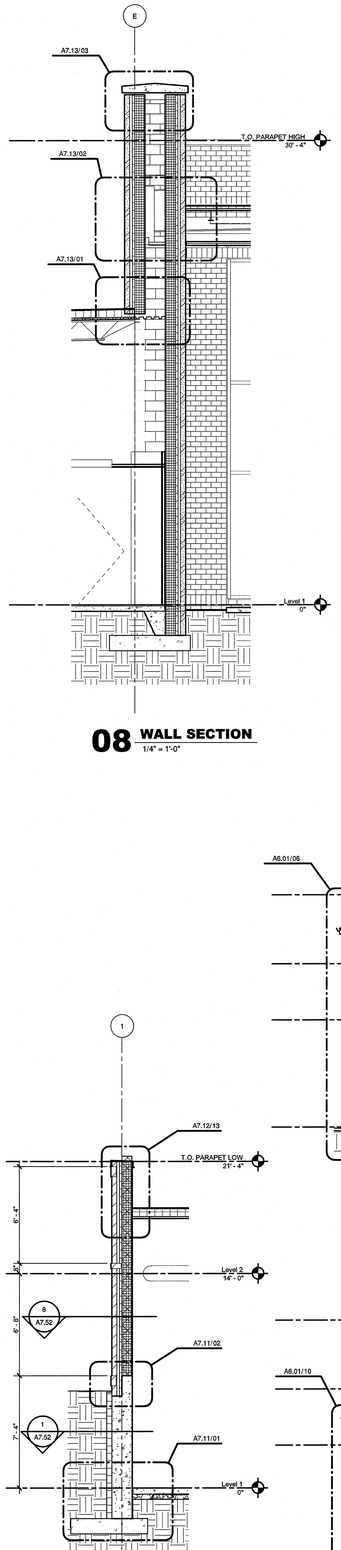
11 WALL SECTION 1/4" = 1'-0"



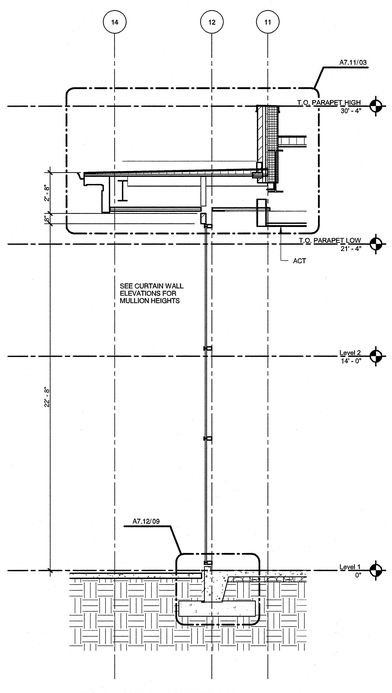
13 WALL SECTION 1/4" = 1'-0"



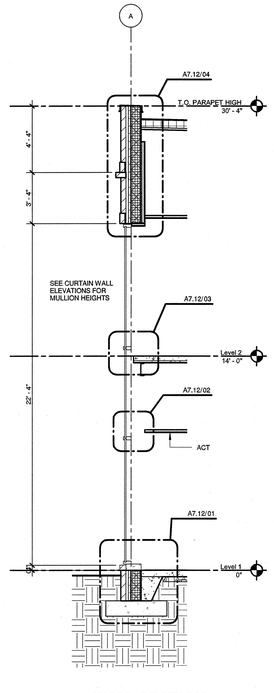
10 WALL SECTION 1/4" = 1'-0"



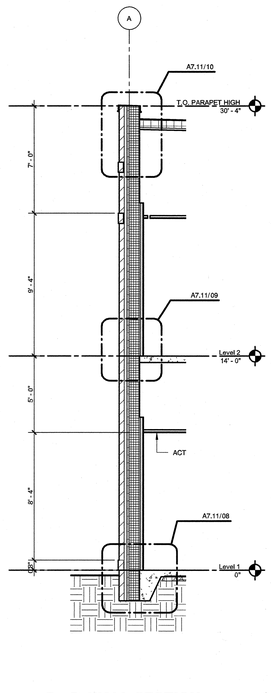
08 WALL SECTION 1/4" = 1'-0"



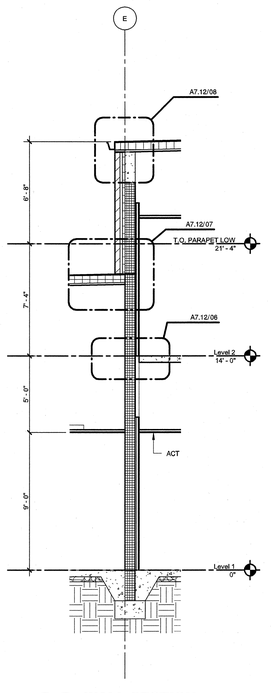
06 WALL SECTION 1/4" = 1'-0"



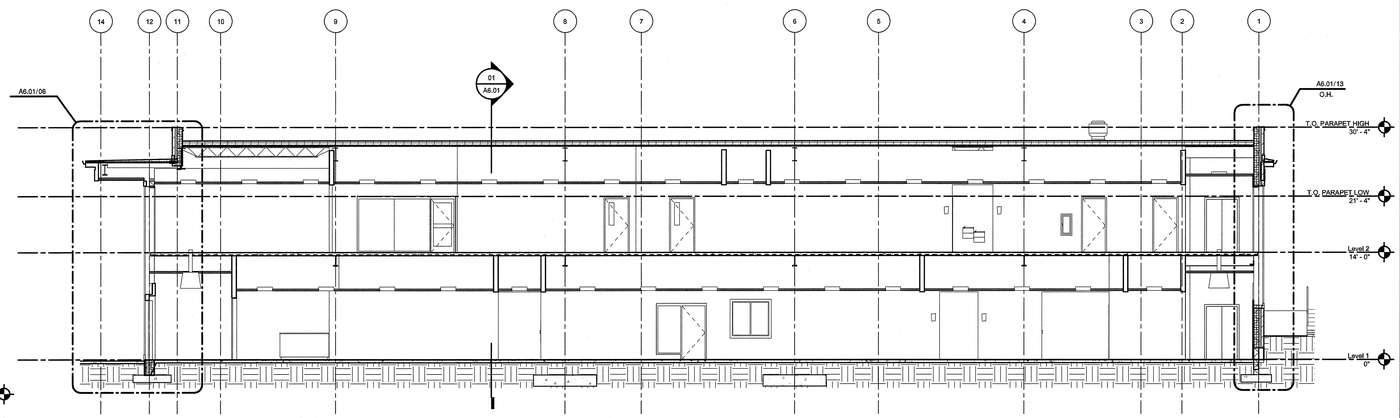
05 WALL SECTION 1/4" = 1'-0"



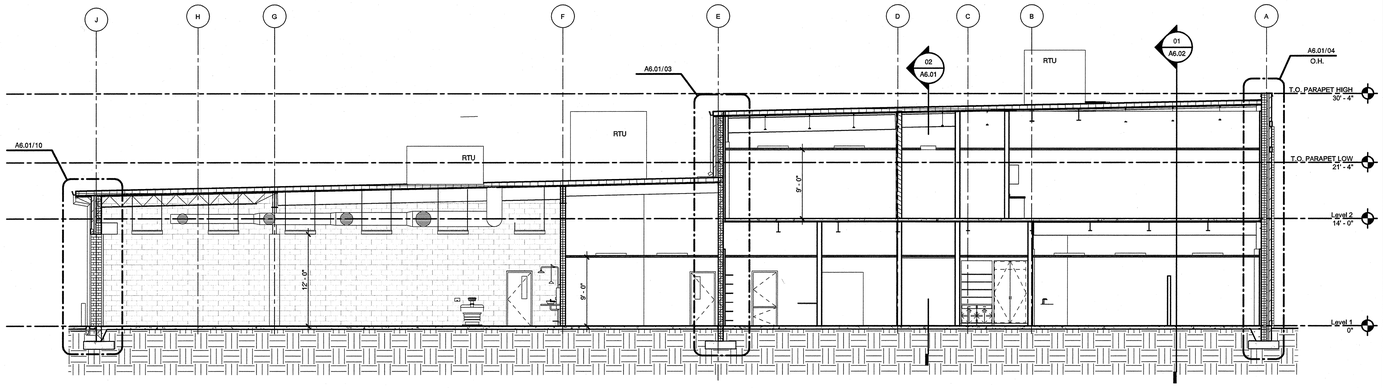
04 WALL SECTION 1/4" = 1'-0"



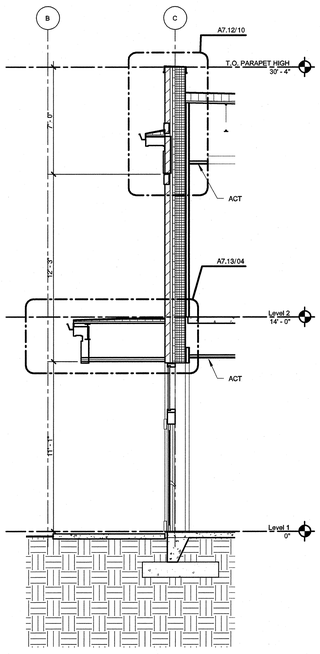
03 WALL SECTION 1/4" = 1'-0"



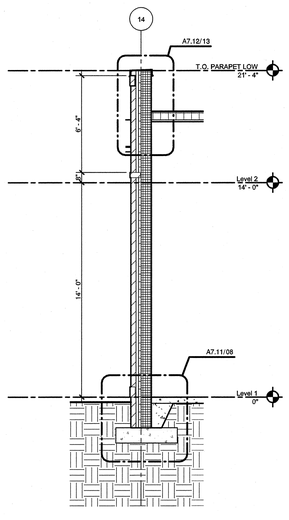
02 BUILDING SECTION 1/8" = 1'-0"



01 BUILDING SECTION 1/8" = 1'-0"



12 WALL SECTION 1/4" = 1'-0"



09 WALL SECTION 1/4" = 1'-0"

07 WALL SECTION 1/4" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA012174
REGISTERED ARCHITECT
14 APR 11

KEY PLAN

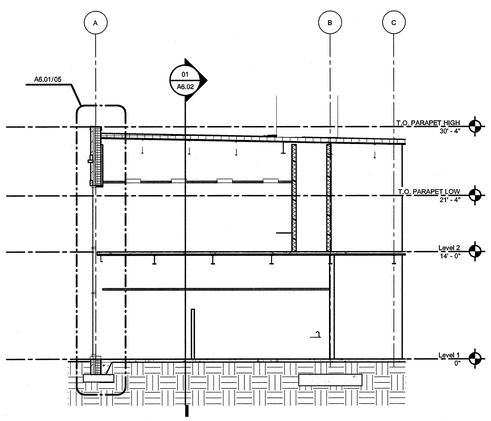
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

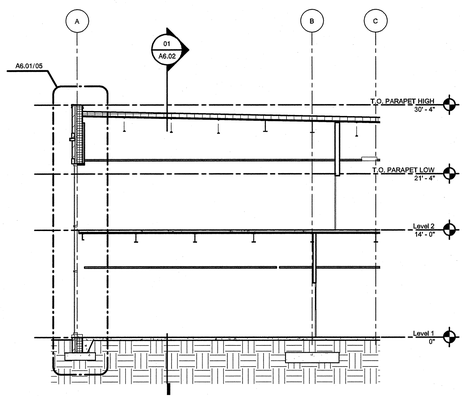
SHEET TITLE
BUILDING AND WALL SECTIONS

SHEET NO.
A6.01

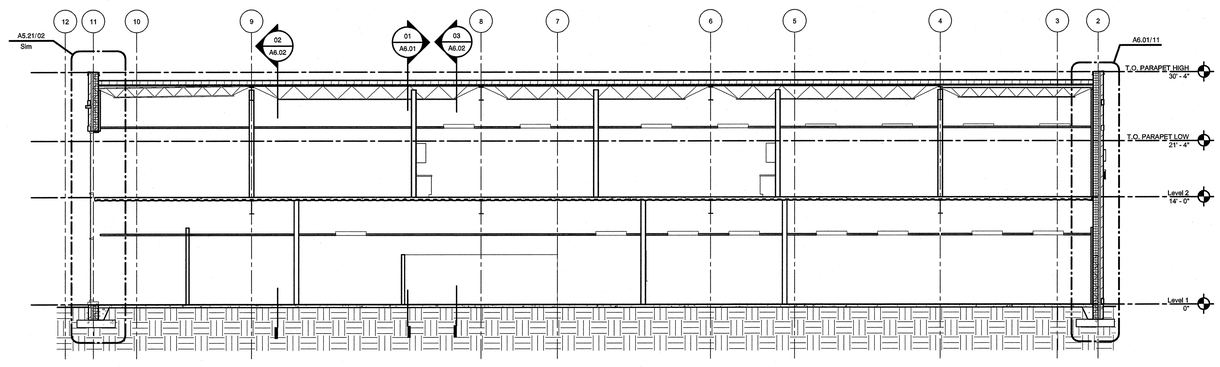
PLOT DATE:
4/18/2011 2:29:52 PM
TEMPLATE VERSION: 2.5.0.20100909



03 BUILDING SECTION
1/8" = 1'-0"



02 BUILDING SECTION
1/8" = 1'-0"



01 BUILDING SECTION
1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR. 11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00

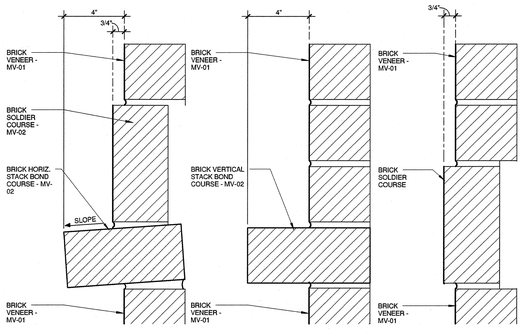
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A6.02

PLOT DATE: 4/18/2011 2:23:56 PM TEMPLATE VERSION: 2.5.0.20110309

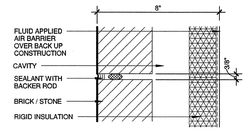


BRICK REVEAL - BR-01

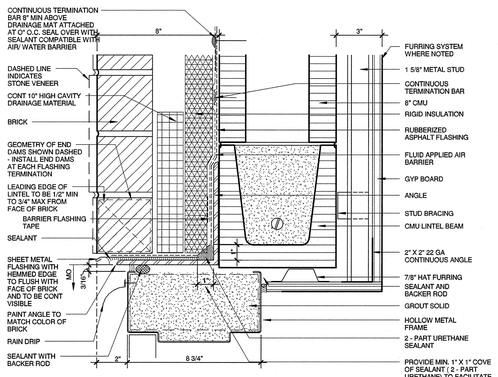
BRICK REVEAL - BR-02

BRICK REVEAL - BR-03

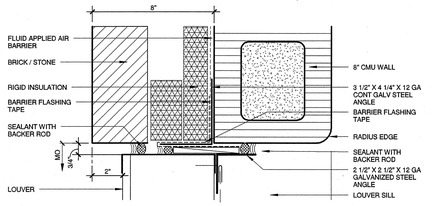
14 BRICK REVEAL PROFILES
3" = 1'-0"



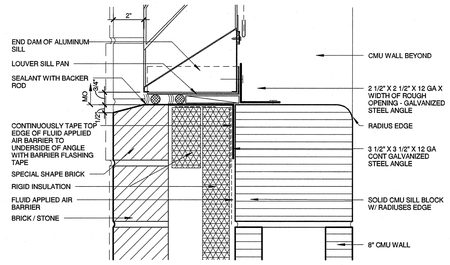
11 TYP. BRICK / STONE EXPANSION JOINT - PLAN DETAIL
3" = 1'-0"



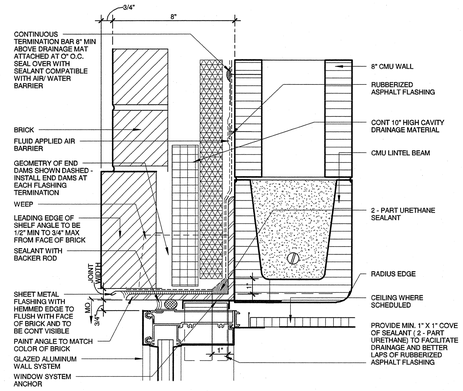
10 H.M. FRAME IN CMU WALL - HEAD
3" = 1'-0"



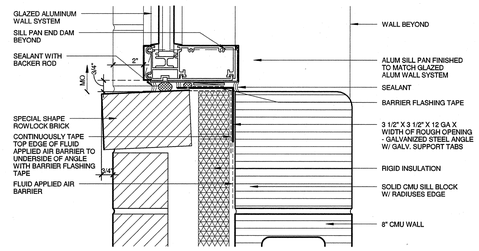
07 LOUVER JAMB DETAIL IN CMU WALL
3" = 1'-0"



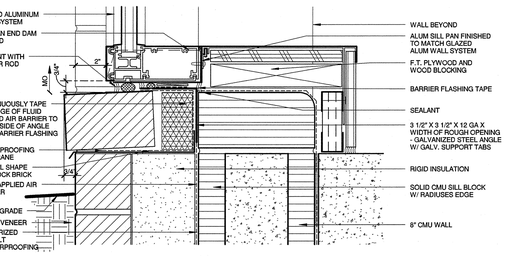
06 LOUVER SILL DETAIL IN CMU WALL
3" = 1'-0"



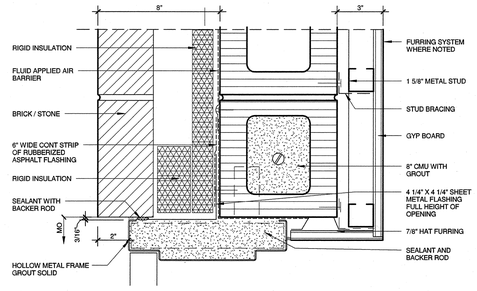
HEAD DETAIL AT GLAZED SYSTEM - SHELF LINTEL IN CMU WALL
03
3" = 1'-0"



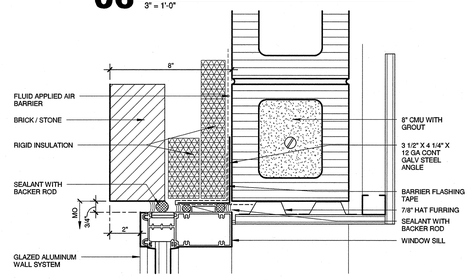
SILL DETAIL AT GLAZED ALUMINUM WALL SYSTEM
02
3" = 1'-0"



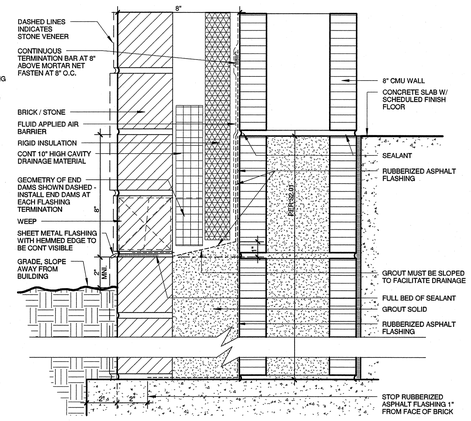
13 SILL DETAIL AT GLAZED ALUM WALL SYSTEM
3" = 1'-0"



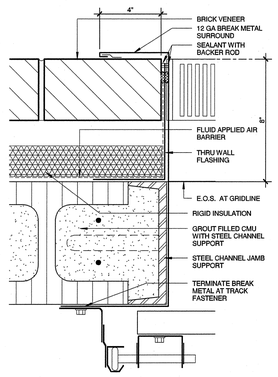
09 H.M. FRAME IN CMU WALL - JAMB
3" = 1'-0"



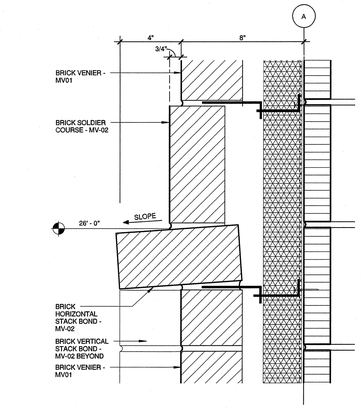
JAMB DETAIL AT GLAZED ALUMINUM WALL SYSTEM IN CMU WALL
05
3" = 1'-0"



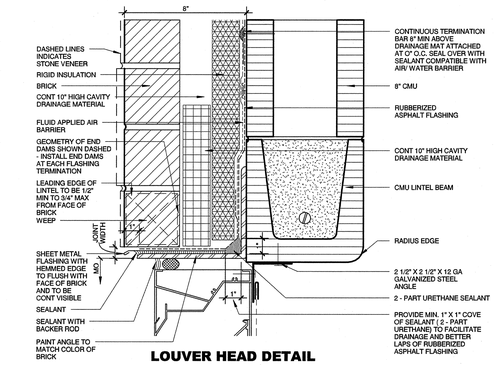
BRICK / STONE LEDGE AT FOUNDATION WALL - LEDGE BELOW ADJACENT GRADE
01
3" = 1'-0"



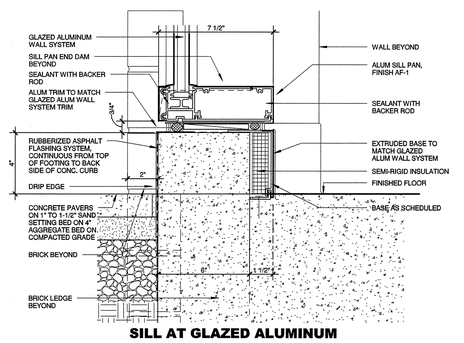
15 JAMB DETAIL AT OVERHEAD DOOR
3" = 1'-0"



12 SECTION DETAIL AT TOP OF WINDOW MODULE
3" = 1'-0"



LOUVER HEAD DETAIL - SHELF ANGLE IN CMU WALL
08
3" = 1'-0"



SILL AT GLAZED ALUMINUM WALL SYSTEM, AT FLOOR SILL
04
3" = 1'-0"

GENERAL NOTES

THE BRICK/ STONE VENEER WALL ASSEMBLY IS DESIGNED AS AN INTEGRATED SYSTEM REQUIRING COORDINATION BY THE CONTRACTOR OF THE INSTALLATION AND INTERFACE OF INTERNAL SYSTEM COMPONENTS AND ADJACENT SYSTEMS. THE SYSTEM MUST ACCOMMODATE WATER PENETRATION OF THE BRICK/ STONE AND PROVIDE AN UNOBSTRUCTED PATH FOR WEEPING WATER TO THE EXTERIOR. WATER WHICH DOES PENETRATE THE BRICK/ STONE MUST NOT PENETRATE THE AIRSPACE SIDE SURFACE OF THE FLUID APPLIED AIR BARRIER AND MUST BE WEEPED TO THE EXTERIOR WHEN INTERSECTING FLASHING AT DOORS, WINDOWS, ROOFS, AND ASSEMBLY PERIMETER. THE INTEGRITY OF THE FLUID APPLIED AIR BARRIER AND FLASHING AND THEIR INTERFACE MUST BE MAINTAINED TO PREVENT PENETRATING WATER FROM MIGRATING ANYWHERE OTHER THAN TO THE EXTERIOR.

BRICK/ STONE EXPANSION JOINTS (EJ): TO BE PLACED AT 26'-0" MAX AND WITHIN 10'-0" OF OUTSIDE CORNERS, 4'-0" PREFERRED UNO AT EXTERIOR ELEVATIONS.

THE DETAILS ON THIS SHEET ARE INTENDED TO ANNOTATE TYPICAL CONSTRUCTION COMPONENTS AND APPLY TO SIMILAR AREAS THROUGHOUT THE PROJECT UNO.

REFER TO FLASHING SHAPE DETAIL ON A7.02 FOR SPECIFIC DIMENSIONS.

REF SHEET A3.10 FOR METAL FABRICATION (MF) DETAILS.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
19 APR 11
REGISTERED ARCHITECT
DELEGATE NO. 849012

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00

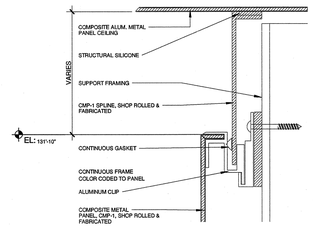
DATE
APR. 19, 2011

ISSUE
BID SET

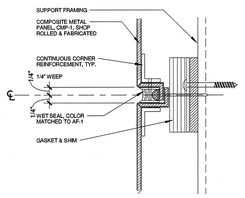
SHEET TITLE
BRICK / STONE DETAILS - RIGID INSULATION

SHEET NO.
A7.01

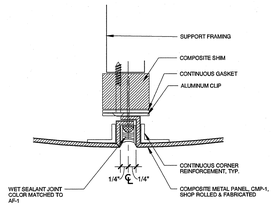
PLOT DATE: 4/18/2011 2:29:02 PM TEMPLATE VERSION: 2.5.0.20100609



EXT. COLUMN COVER
08 HEAD JOINT AT CLG.
6" = 1'-0"



07 HORIZONTAL PANEL JOINT, TYP.
6" = 1'-0"



06 VERTICAL PANEL JOINT, TYP
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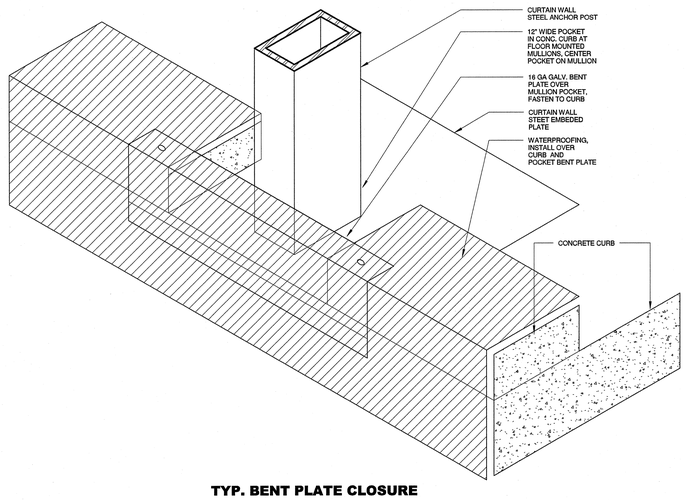
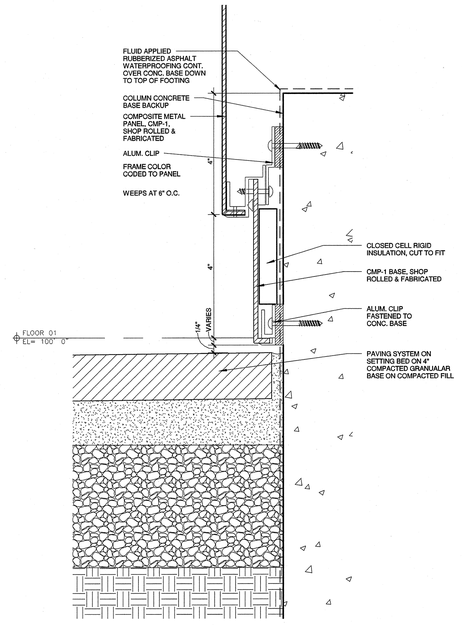
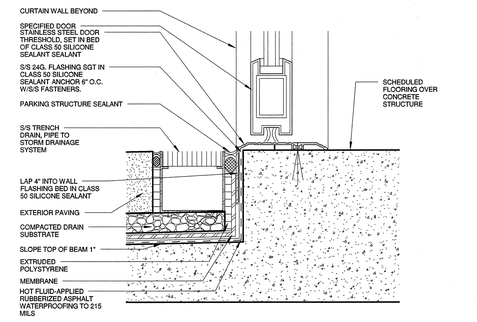


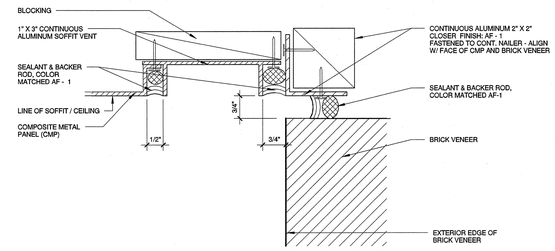
TYP. BENT PLATE CLOSURE
09 AT SLAB MULLION ANCHORS
3" = 1'-0"



EXT. COLUMN COVER SILL AT PAVING
05
6" = 1'-0"



TYP. OVERHEAD DOOR SILL
04 W/ TRENCH DRAIN
3" = 1'-0"



TYP. SOFFIT VENT DETAIL
03 AT BRICK VENEER
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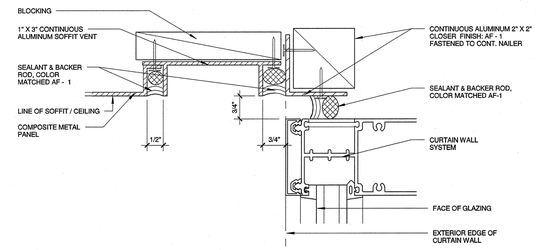

TYP. SOFFIT VENT DETAIL
02 AT CURTAIN WALL
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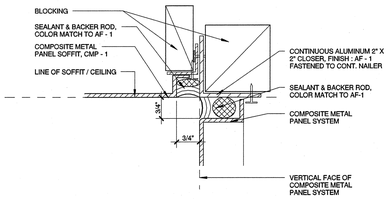

TYPICAL EXTERIOR CMP-1 SOFFIT/
01 CEILING DETAIL TO WALL JOINT
6" = 1'-0"

PLOT DATE: 4/19/2011 2:26:05 PM TEMPLATE VERSION: 2.5.0.20100909

HKS

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HKS, INC.
191 PEACHTREE STREET NE
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ATLANTA, GA 30303

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BUILDING EXPANSION
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STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

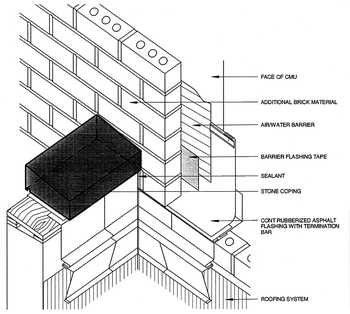
KEY PLAN

REVISION
NO. DESCRIPTION DATE

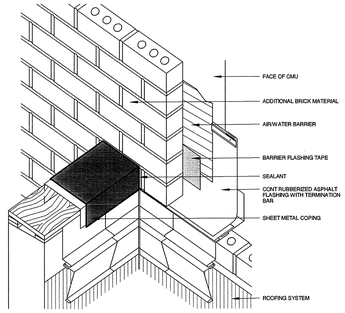
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
WATERPROOFING DETAILS

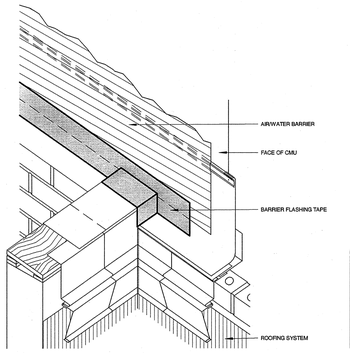
SHEET NO.
A7.02



STONE PARAPET COPING INTERSECTION AT WALL - STEP 4
NTS



METAL PARAPET COPING INTERSECTION AT WALL - STEP 4
NTS



STONE PARAPET COPING INTERSECTION AT WALL - STEP 3
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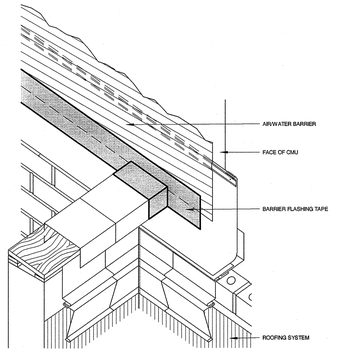

METAL PARAPET COPING INTERSECTION AT WALL - STEP 3
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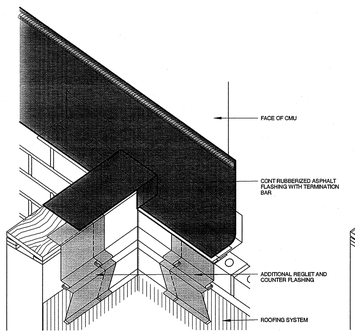

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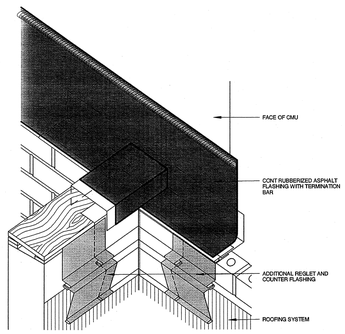

METAL PARAPET COPING INTERSECTION AT WALL - STEP 2
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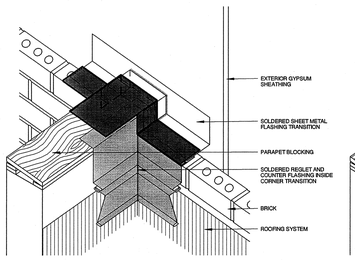

12 STONE PARAPET COPING INTERSECTION AT WALL - STEP 1
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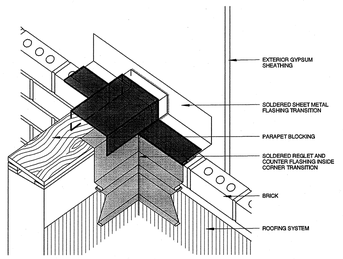

11 METAL PARAPET COPING INTERSECTION AT WALL - STEP 1
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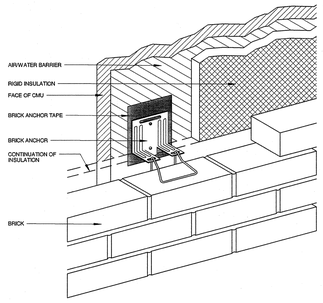
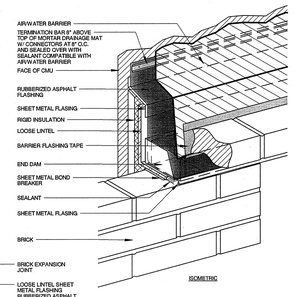
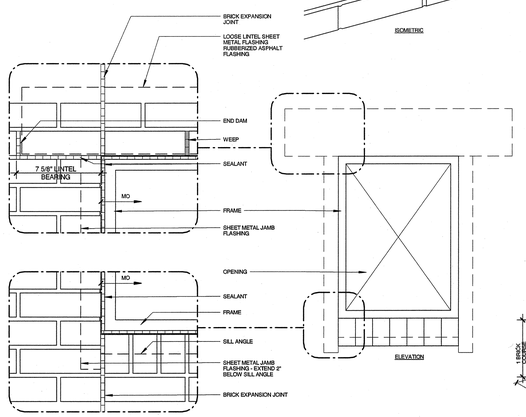
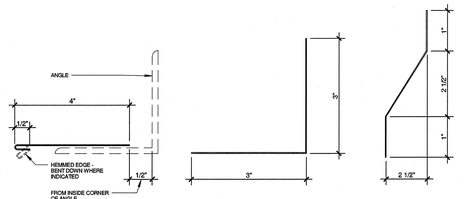


08 BRICK ANCHOR AT RIGID INSULATION1
NTS

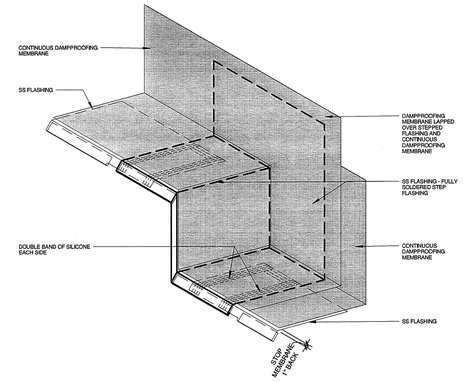




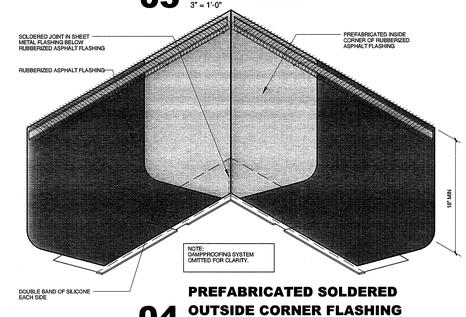
07 BRICK EXPANSION JOINT AT WINDOW OPENING
NTS



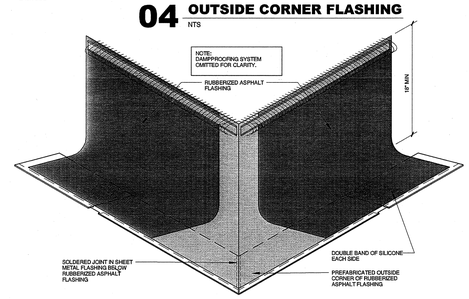
06 FLASHING SHAPE DETAILS
NTS



05 STEP FLASHING1
3" = 1'-0"



04 PREFABRICATED SOLDERED OUTSIDE CORNER FLASHING
NTS



03 PREFABRICATED SOLDERED OUTSIDE CORNER FLASHING
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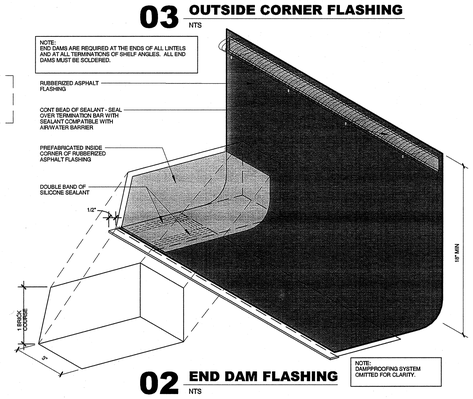

02 END DAM FLASHING
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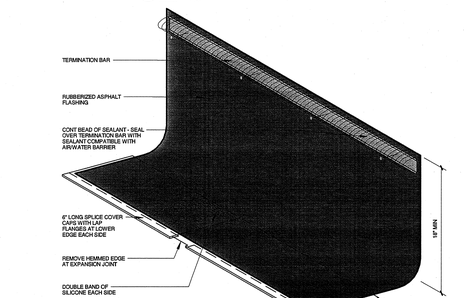

01 SPLICE FLASHING
NTS

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
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MACON, GA. 31210

BUILDING EXPANSION
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89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
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STATE OF GEORGIA
MARK B. HULTS
DESIGNATED REGISTERED ARCHITECT

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
BRICK DETAILS - RIGID INSULATION

SHEET NO.
A7.03

PLOT DATE:
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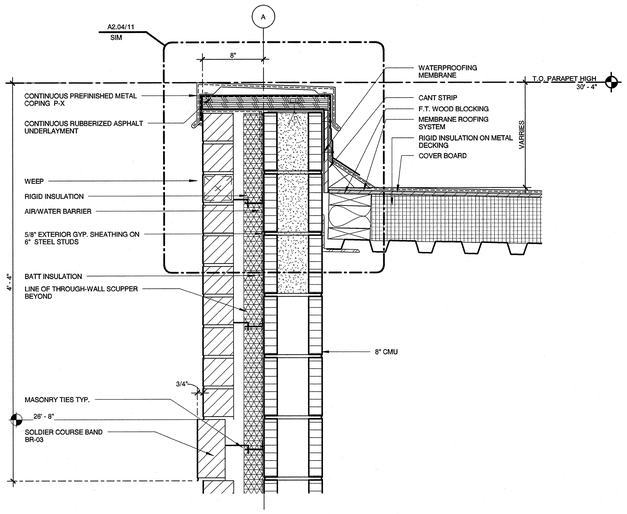
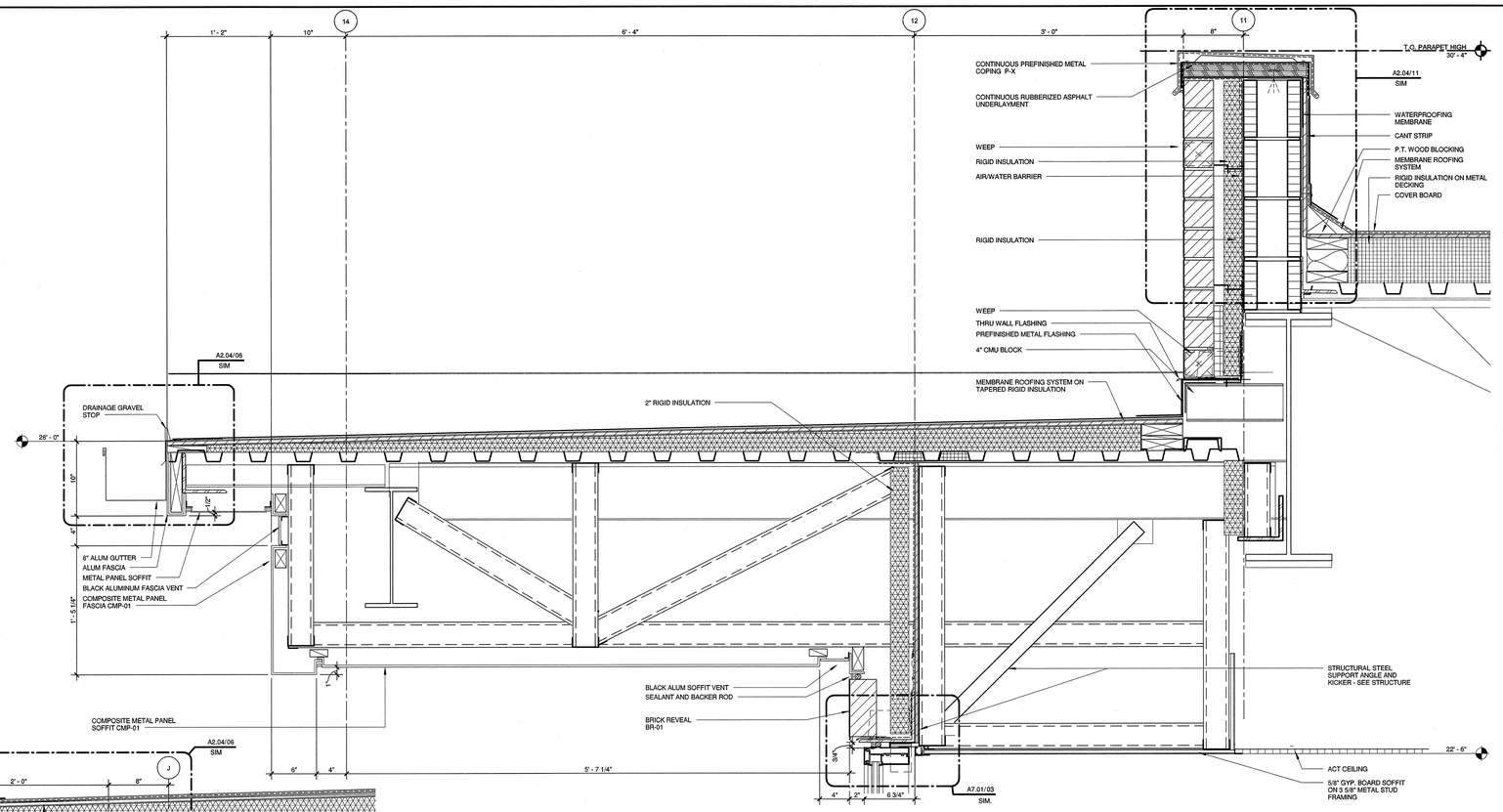


10 SECTION DETAIL
1 1/2" = 1'-0"



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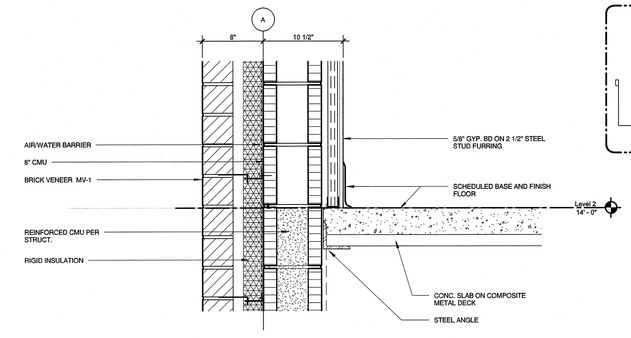

09 SECTION DETAIL
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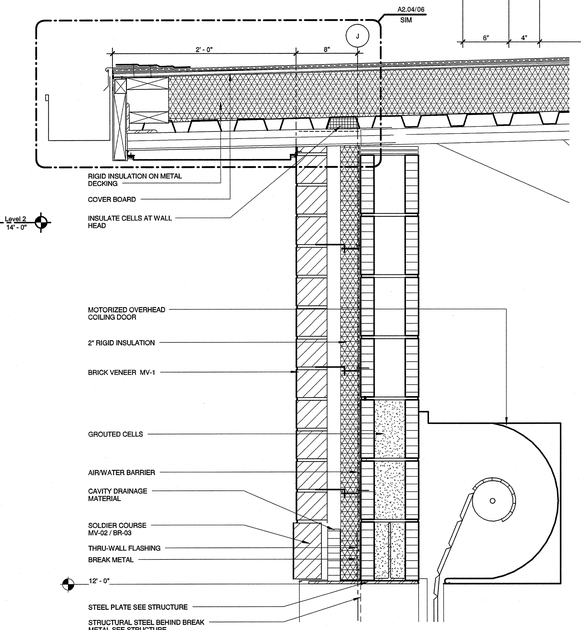
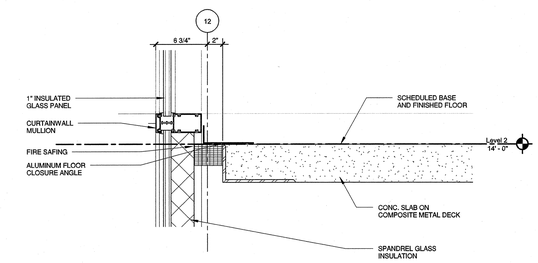
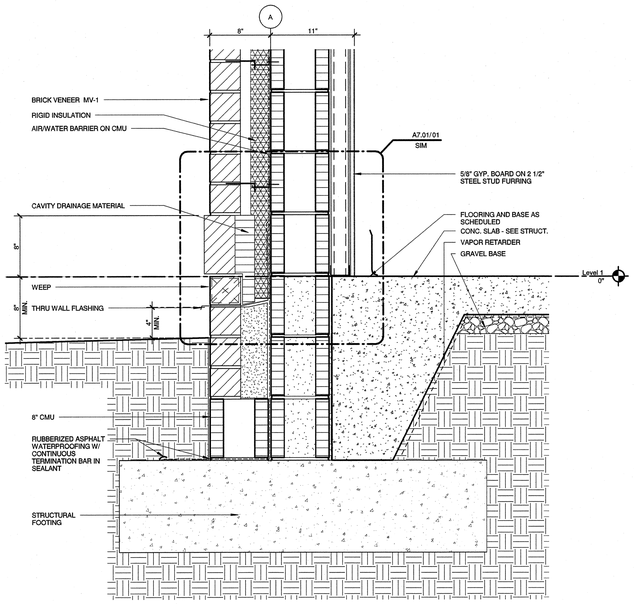


07 SECTION DETAIL
1 1/2" = 1'-0"

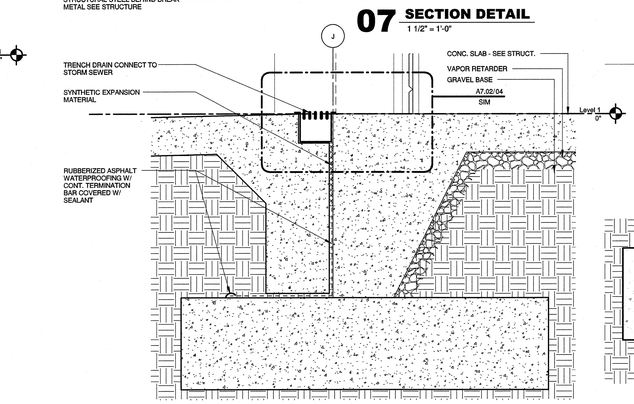


05 SECTION DETAIL
1 1/2" = 1'-0"

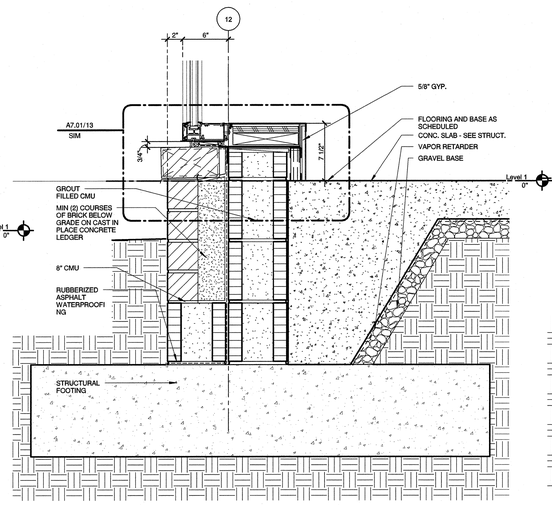
02 SECTION DETAIL
1 1/2" = 1'-0"



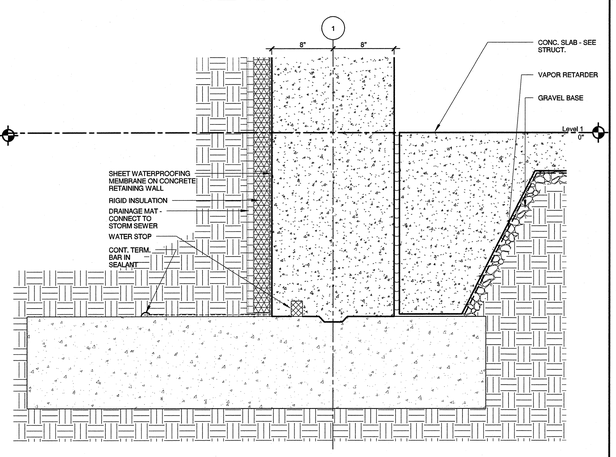
08 SECTION DETAIL
1 1/2" = 1'-0"



06 SECTION DETAIL
1 1/2" = 1'-0"



04 SECTION DETAIL
1 1/2" = 1'-0"



01 SECTION DETAIL
1 1/2" = 1'-0"

PLOT DATE: 4/18/2011 2:20:18 PM TEMPLATE VERSION: 2.5.C.20110009

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STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
14 APR 11

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

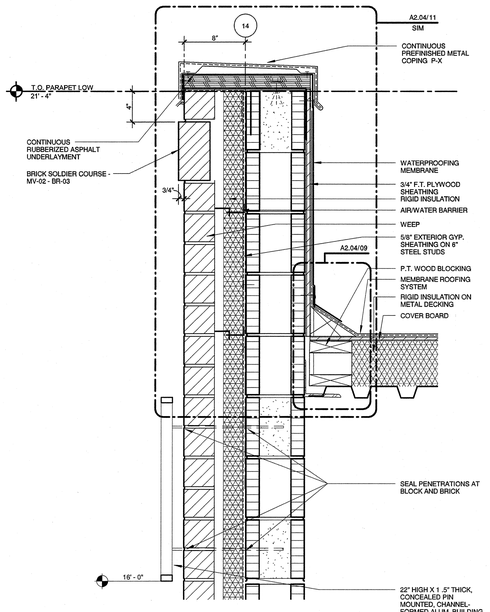
HKS PROJECT NUMBER
12528.00

DATE
APR. 19, 2011

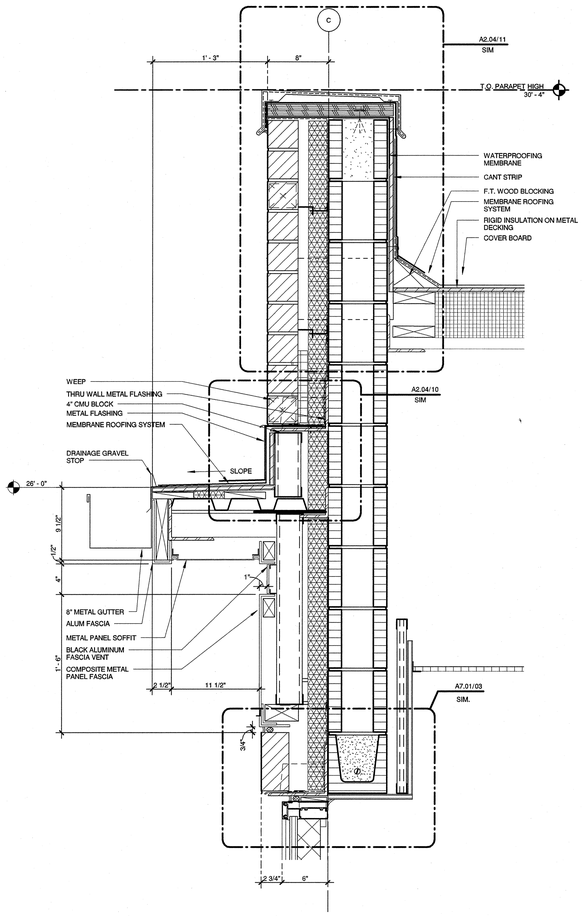
ISSUE
BID SET

SHEET TITLE
SECTION DETAILS

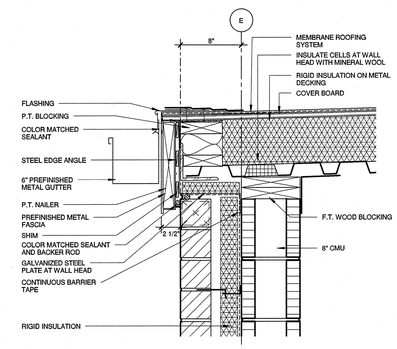
SHEET NO.
A7.11



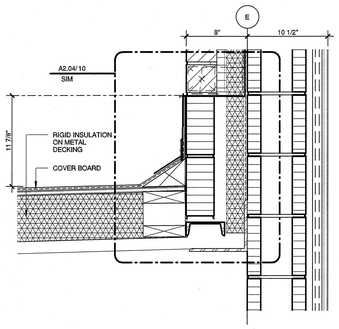
13 **SECTION DETAIL**
1 1/2" = 1'-0"



10 **SECTION DETAIL**
1 1/2" = 1'-0"



08 **SECTION DETAIL**
1 1/2" = 1'-0"



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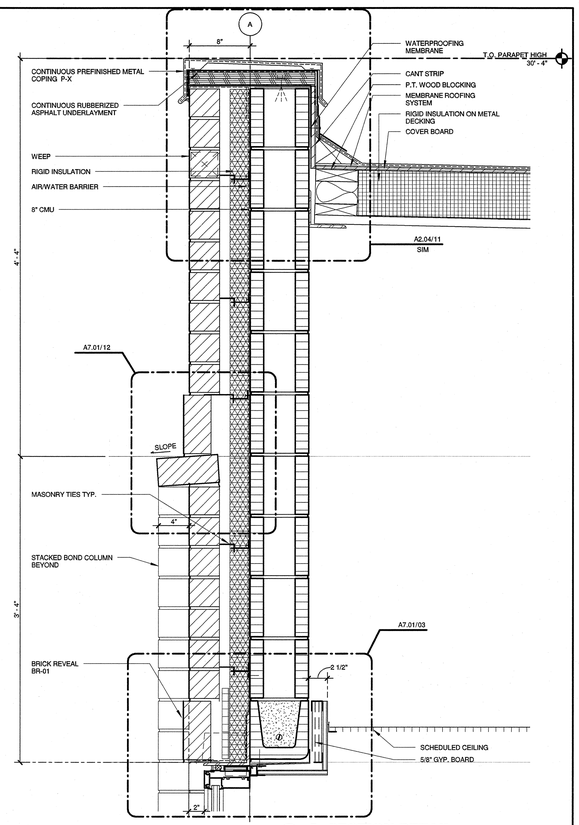

04 **SECTION DETAIL**
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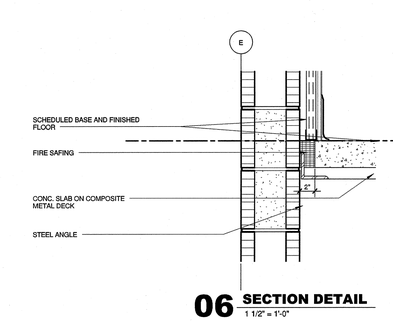
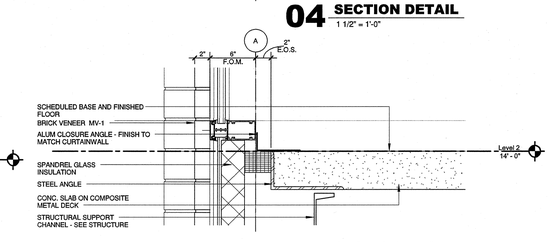
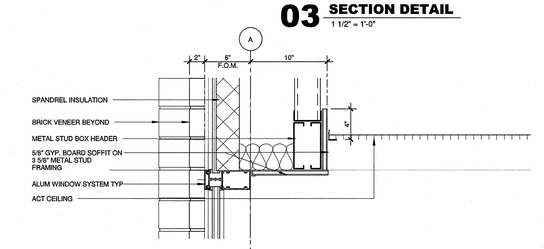


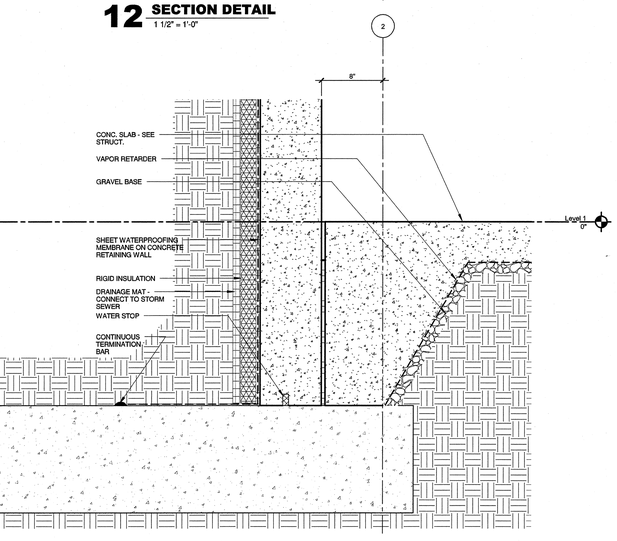
06 **SECTION DETAIL**
1 1/2" = 1'-0"



03 **SECTION DETAIL**
1 1/2" = 1'-0"

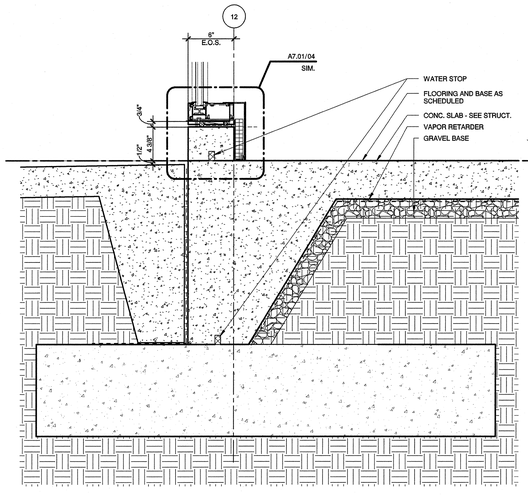


02 **WALL SECTION DETAIL**
1 1/2" = 1'-0"

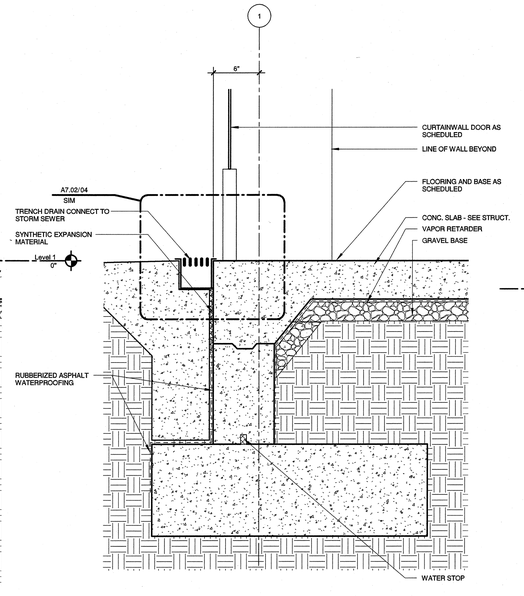


12 **SECTION DETAIL**
1 1/2" = 1'-0"

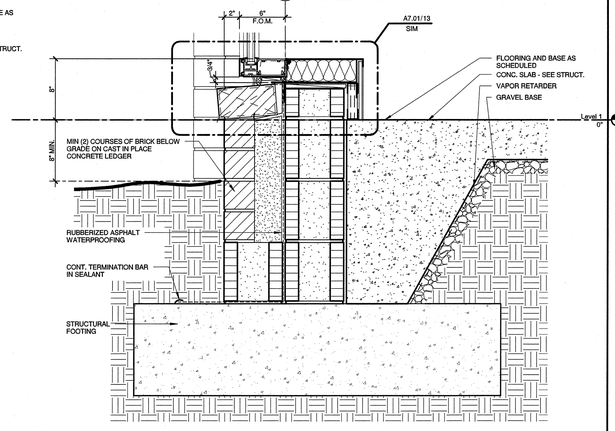
11 **SECTION DETAIL**
1 1/2" = 1'-0"



09 **SECTION DETAIL**
1 1/2" = 1'-0"



05 **SECTION DETAIL**
1 1/2" = 1'-0"



01 **SECTION DETAIL**
1 1/2" = 1'-0"

PLOT DATE: 4/19/2011 2:55:26 PM TEMPLATE VERSION: 2.5.0.20110609

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
No. 026140
REGISTERED ARCHITECT
APR. 19

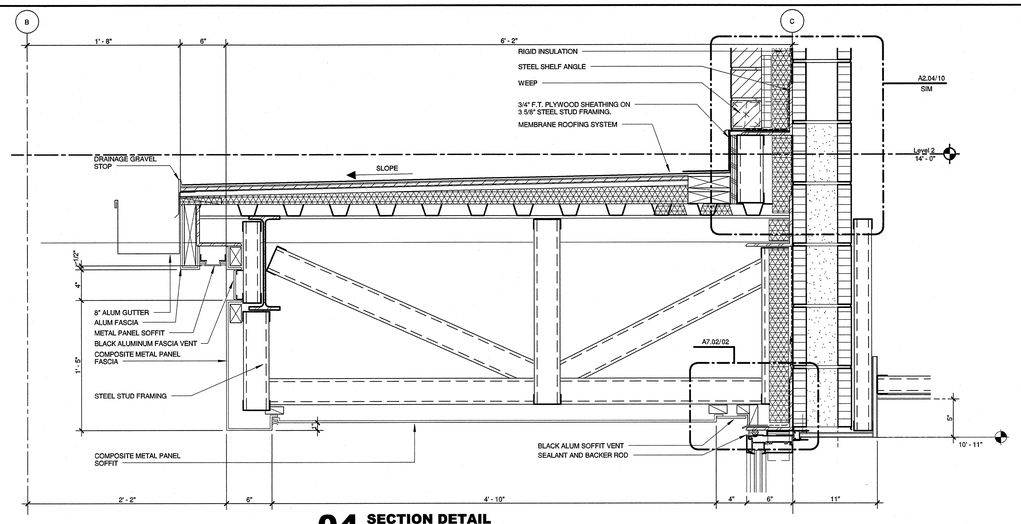
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

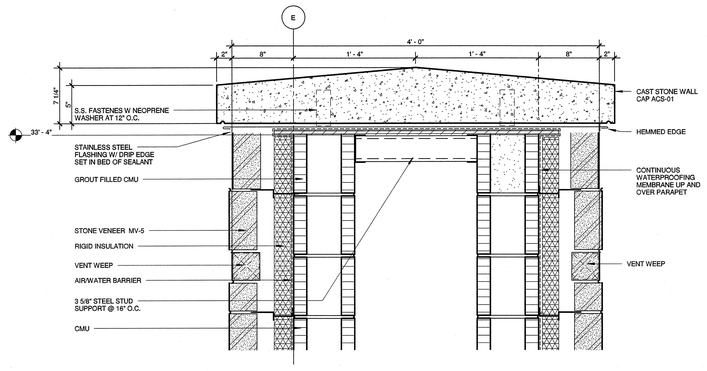
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
SECTION DETAILS

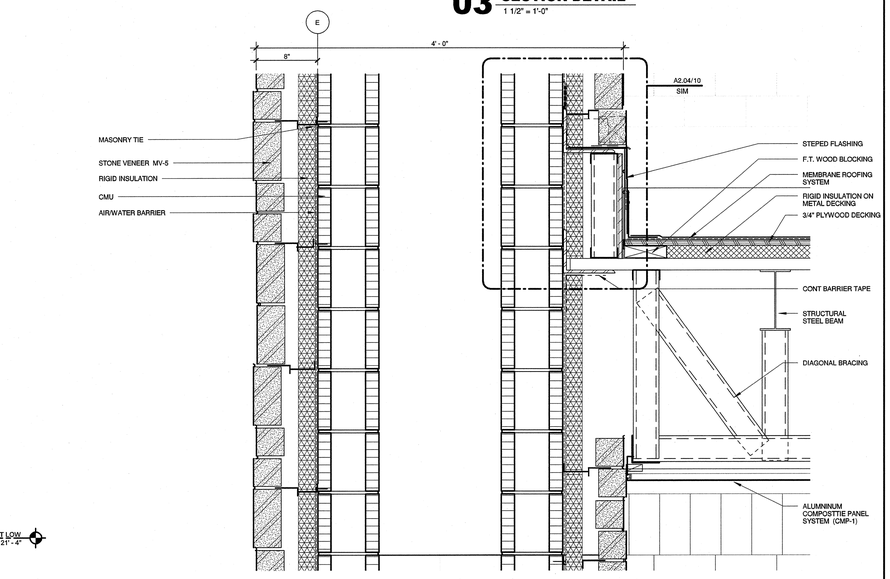
SHEET NO.
A7.12



04 SECTION DETAIL
1 1/2" = 1'-0"



03 SECTION DETAIL
1 1/2" = 1'-0"



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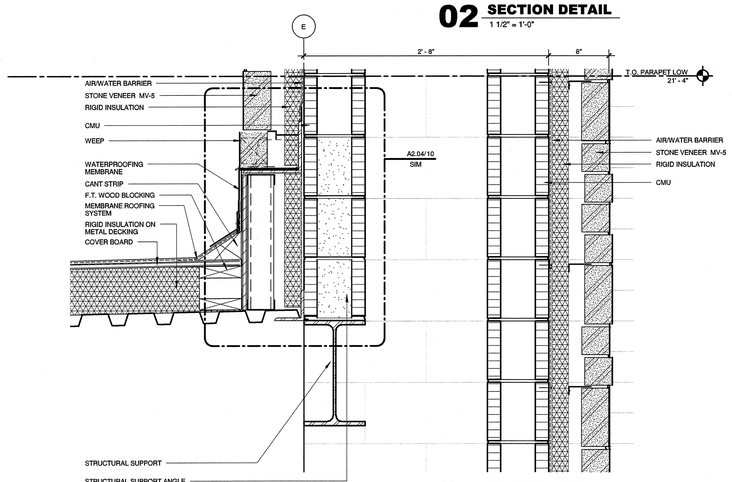
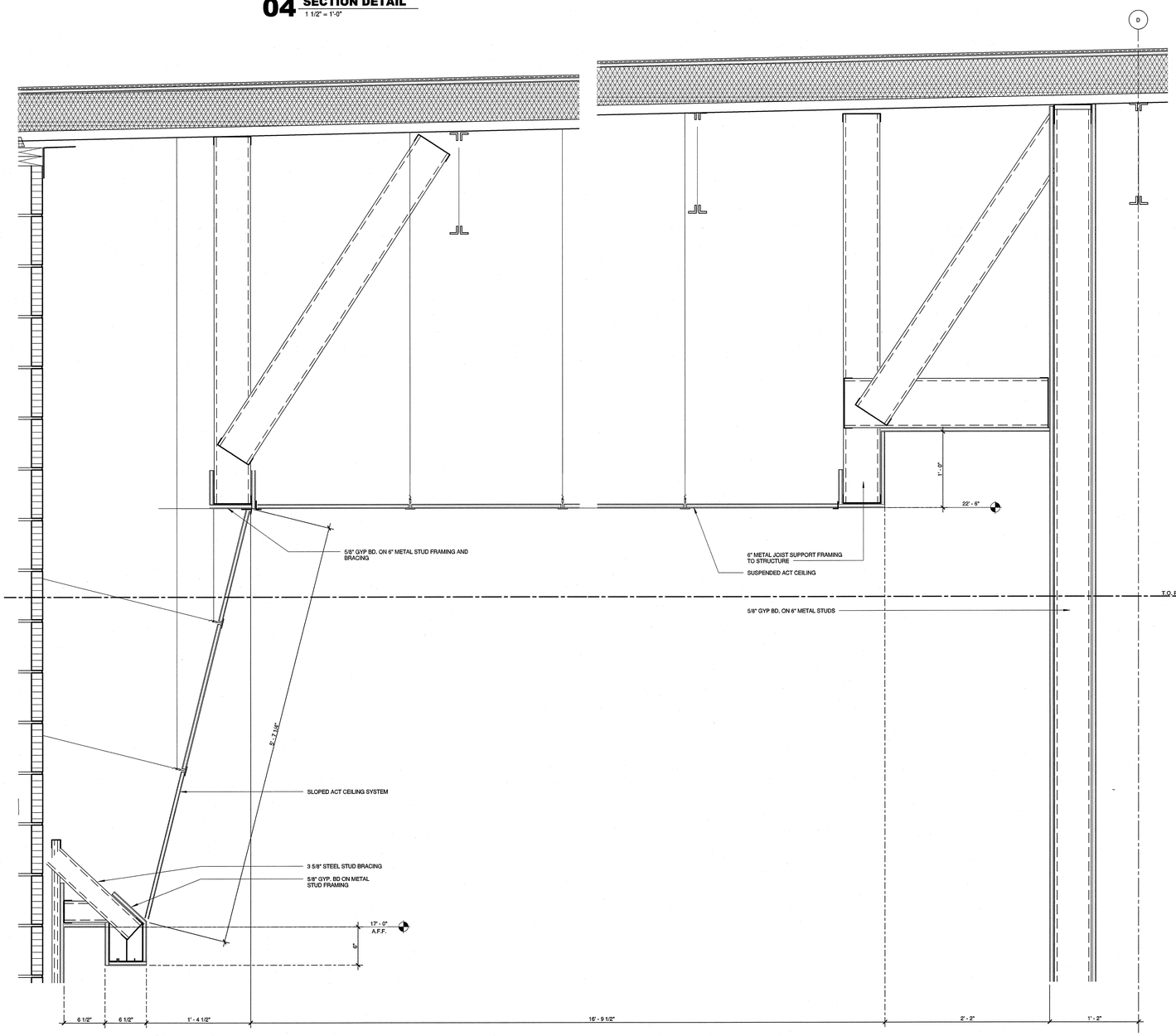


01 SECTION DETAIL
1 1/2" = 1'-0"



05 STUDENT CENTER CEILING DETAIL
1 1/2" = 1'-0"

PLOT DATE: 4/18/2011 2:30:31 PM TEMPLATE VERSION: 2.0.0.20110609

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
REGISTERED ARCHITECT
19 APR 11

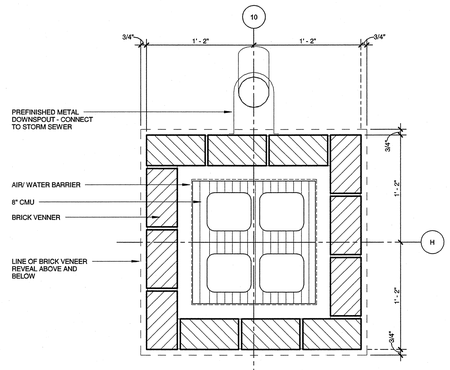
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

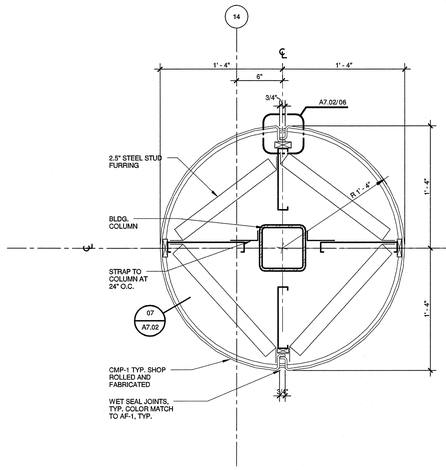
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

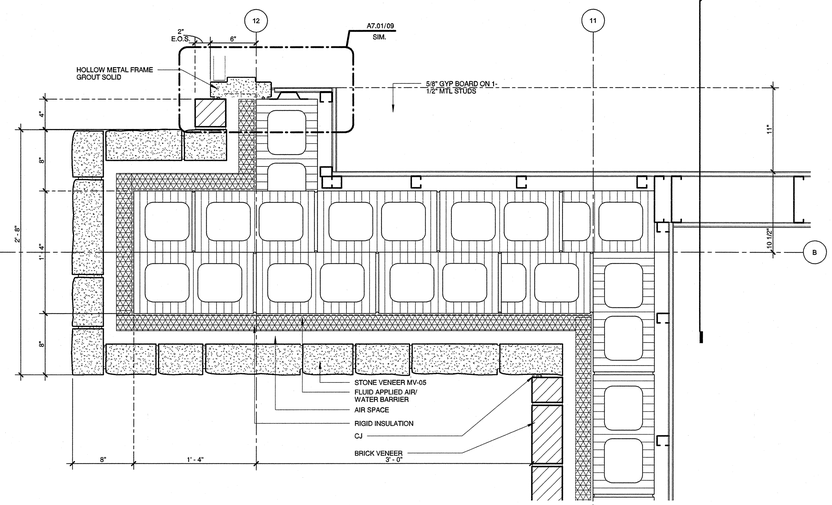
SHEET TITLE
SECTION DETAILS

SHEET NO.
A7.13

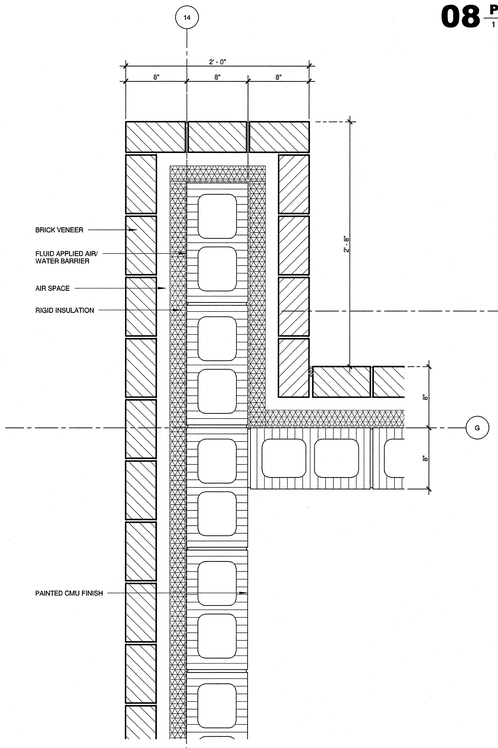


08 PLAN DETAIL
1 1/2" = 1'-0"

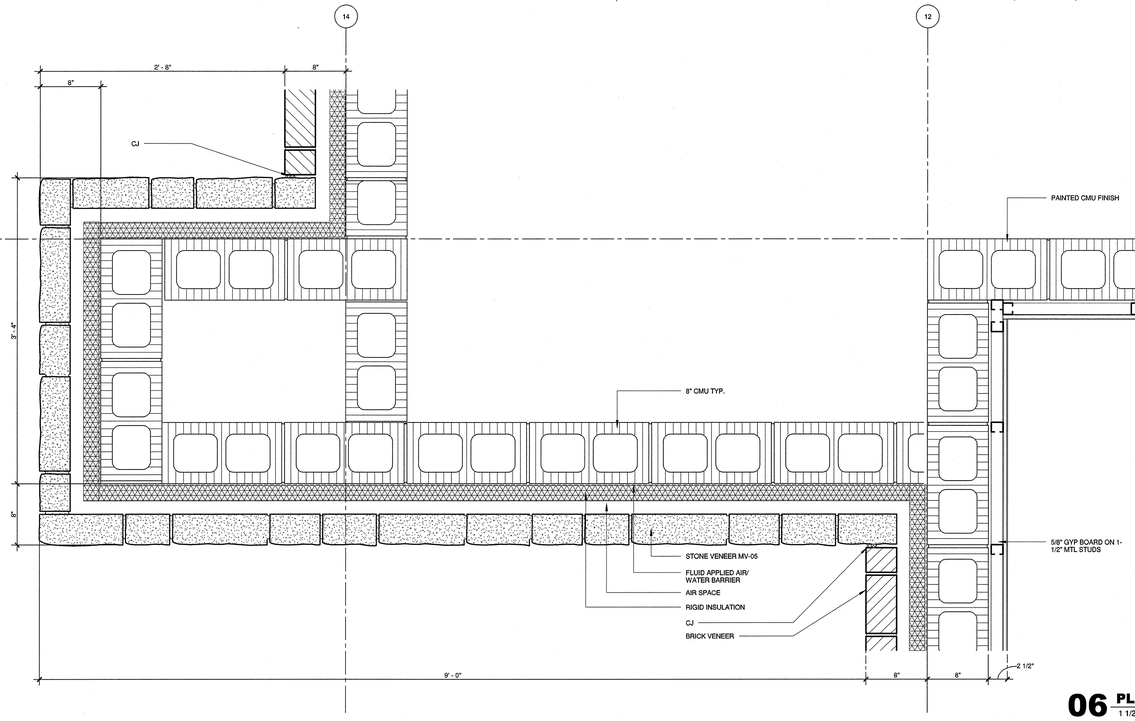




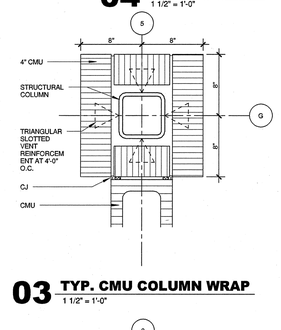
04 PLAN DETAIL
1 1/2" = 1'-0"



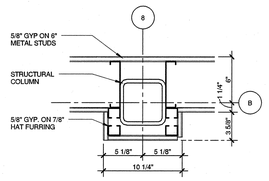
07 PLAN DETAIL
1 1/2" = 1'-0"



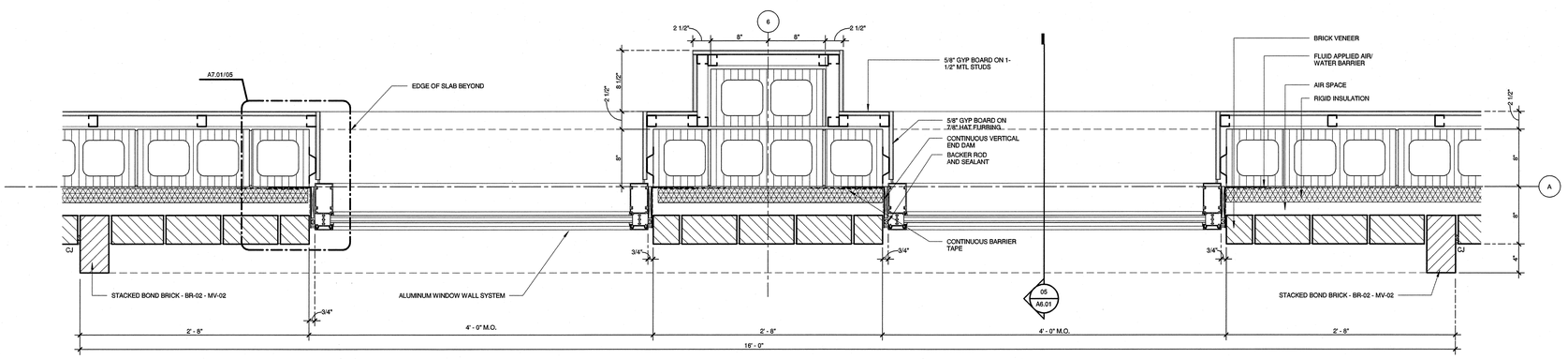
06 PLAN DETAIL
1 1/2" = 1'-0"



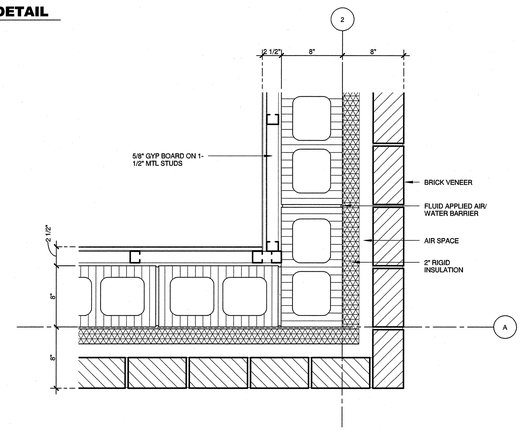
03 TYP. CMU COLUMN WRAP
1 1/2" = 1'-0"



02 TYP. COLUMN WRAP PLAN DETAIL
1 1/2" = 1'-0"



05 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



01 PLAN DETAIL
1 1/2" = 1'-0"

PLOT DATE:
4/18/2011 2:50:37 PM
TEMPLATE VERSION: 2.5.0.20100909

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
GRADUATE NO. RA003274
REGISTERED ARCHITECT
APR. 11

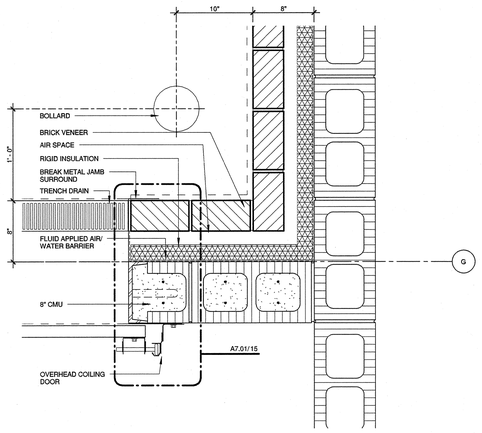
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

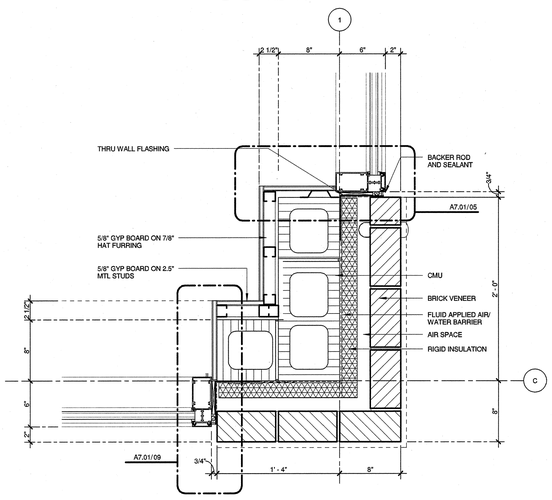
HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
PLAN DETAILS

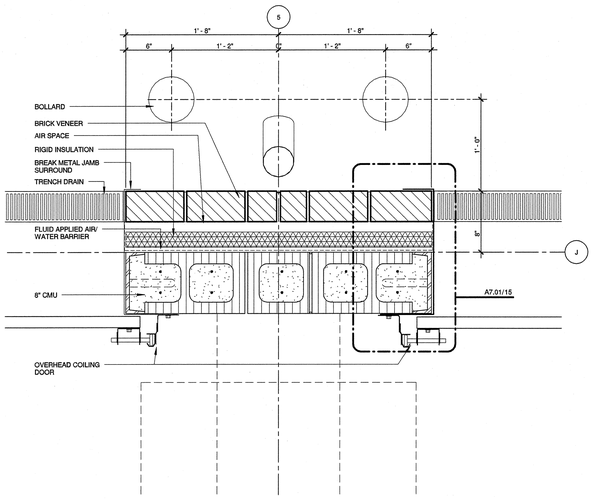
SHEET NO.
A7.51



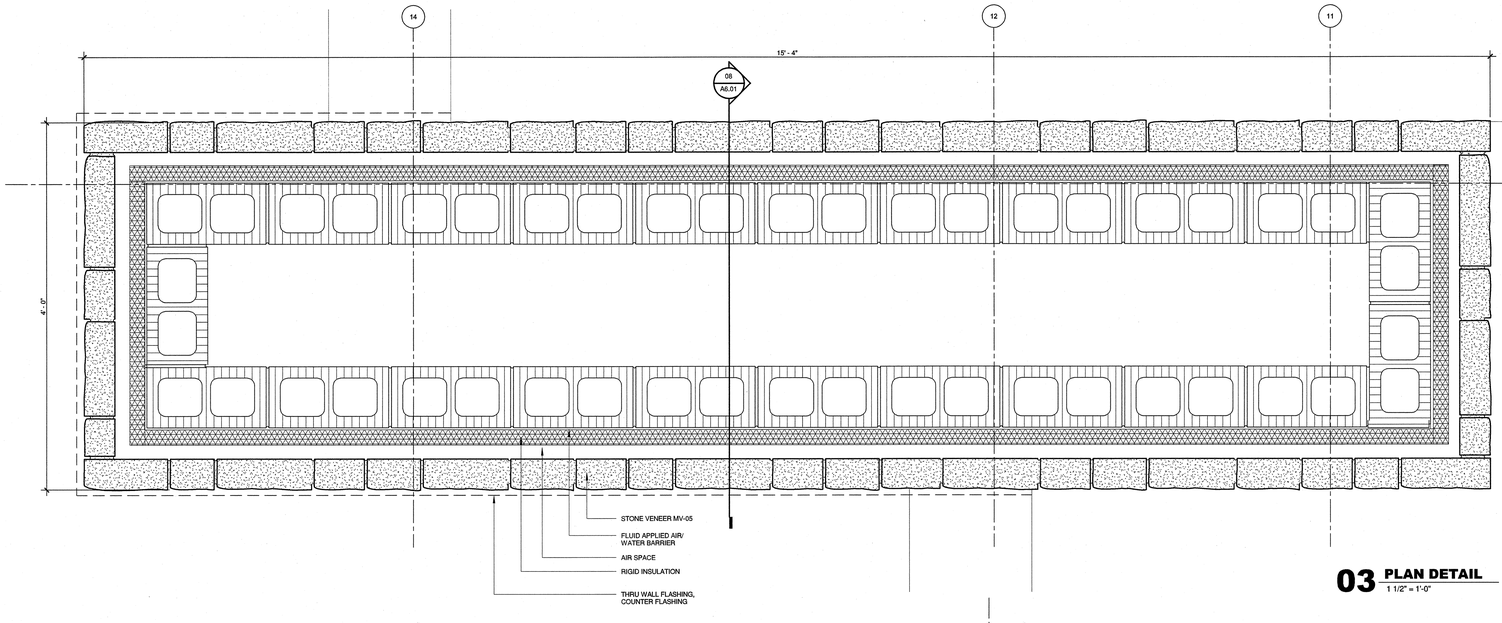
06 PLAN DETAIL
1 1/2" = 1'-0"



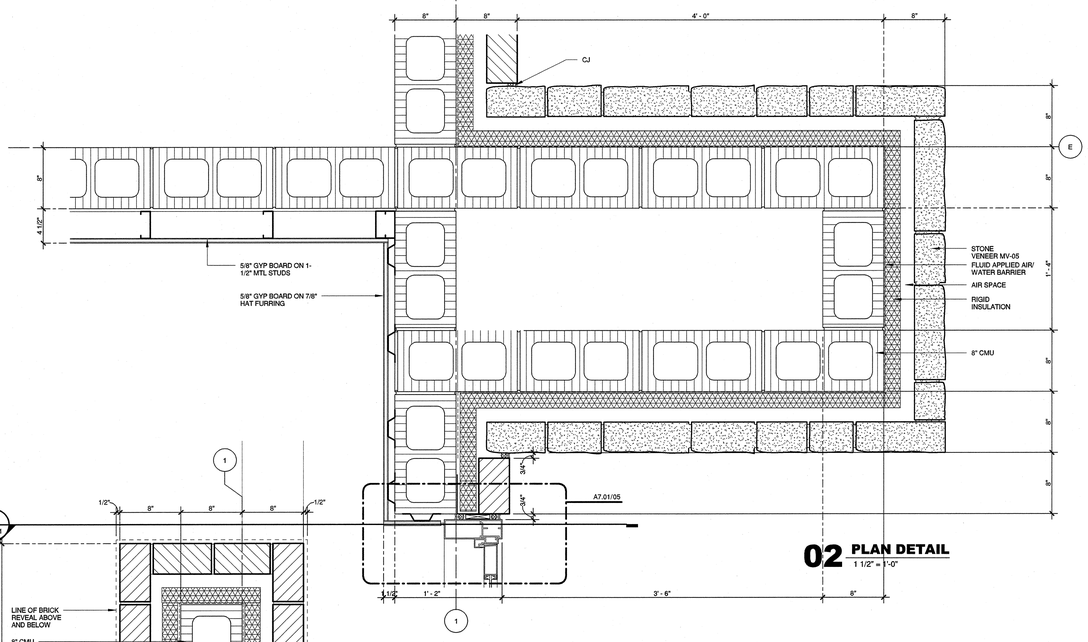
05 PLAN DETAIL
1 1/2" = 1'-0"



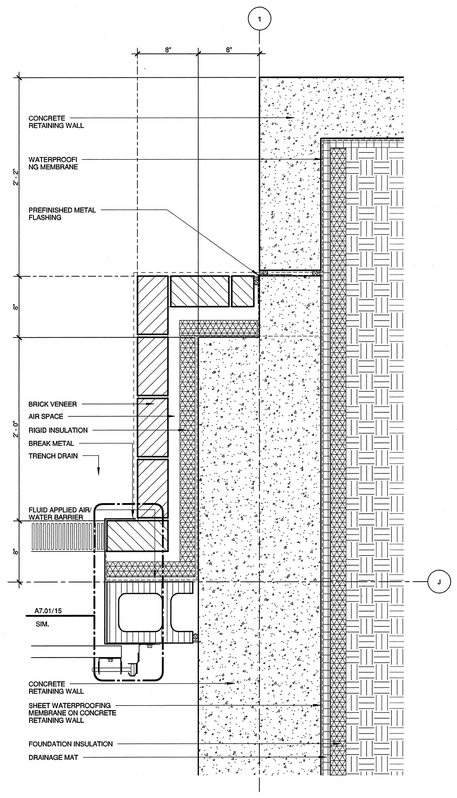
04 PLAN DETAIL
1 1/2" = 1'-0"



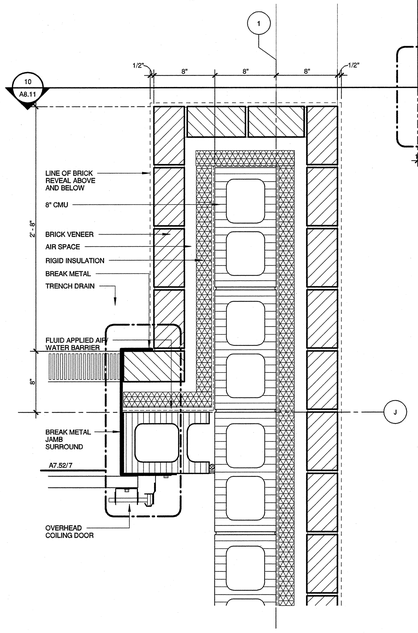
03 PLAN DETAIL
1 1/2" = 1'-0"



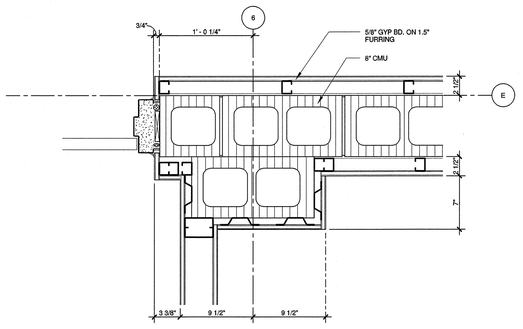
02 PLAN DETAIL
1 1/2" = 1'-0"



1 PLAN DETAIL
1 1/2" = 1'-0"



8 PLAN DETAIL
1 1/2" = 1'-0"



7 PLAN DETAIL
1 1/2" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA001671
REGISTERED ARCHITECT
14 APR. 11

KEY PLAN

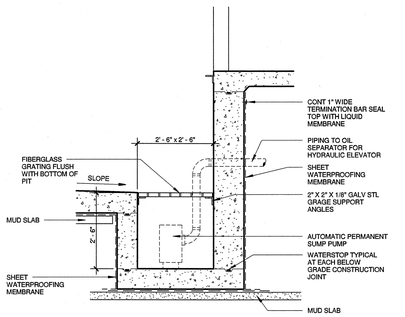
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

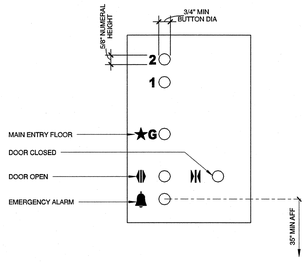
SHEET TITLE
PLAN DETAILS

SHEET NO.
A7.52

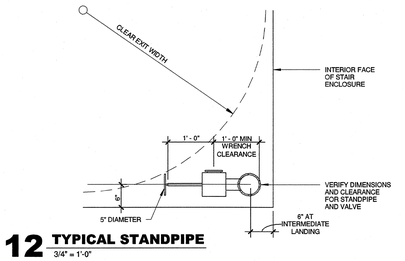
PLOT DATE: 4/18/2011 2:39:44 PM TEMPLATE VERSION: 2.5.0.20100809



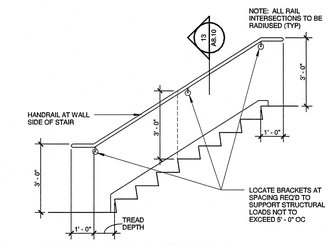
23 PIT SECTION AT SUMP WITH POSITIVE SIDE WATERPROOFING
1/2" = 1'-0"



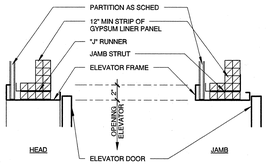
18 ELEVATOR PANEL DETAIL
3" = 1'-0"



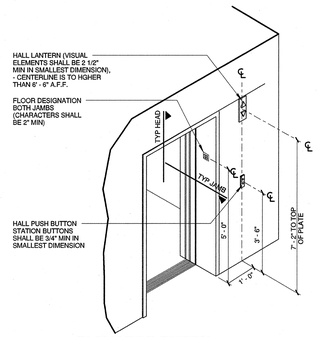
12 TYPICAL STANDPIPE
3/4" = 1'-0"



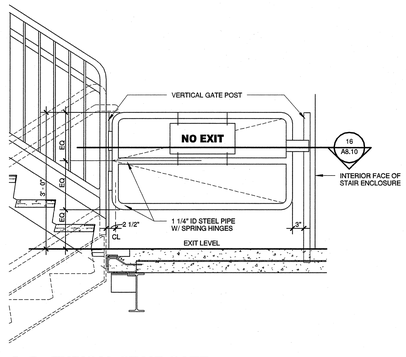
07 STAIR RAILING AT WALL
3/8" = 1'-0"



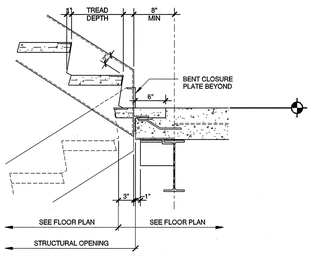
22 ELEVATOR DOOR DETAIL DRYWALL
1 1/2" = 1'-0"



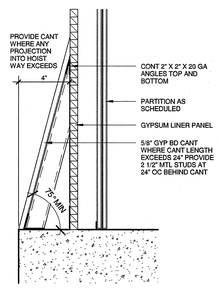
ELEVATOR ENTRY 17 AT MOUNTING HEIGHTS
1 1/2" = 1'-0"



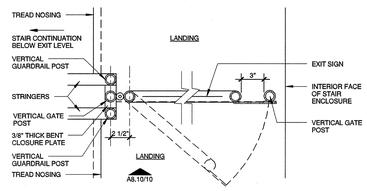
10 TYPICAL STAIR GATE
3/4" = 1'-0"



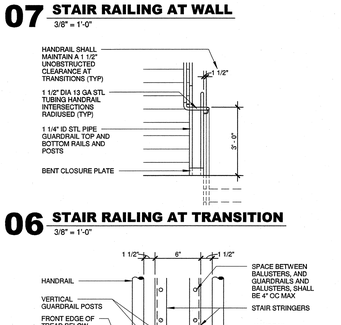
FLOOR LANDING AT 03 CONCRETE ON METAL DECK
1" = 1'-0"



21 HOISTWAY DETAIL PROJECTION CANT
1 1/2" = 1'-0"

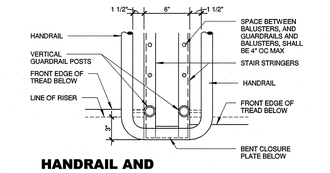


16 STAIR GATE SECTION
1 1/2" = 1'-0"



11 RAILING AND GUARDRAIL AT TOP LANDING
1" = 1'-0"

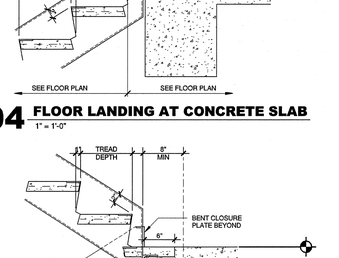
06 STAIR RAILING AT TRANSITION
3/8" = 1'-0"



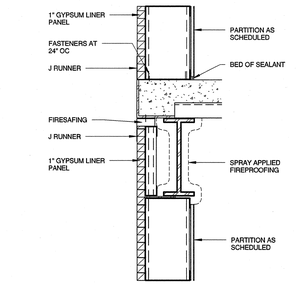
HANDRAIL AND 05 GUARDRAIL AT LANDING PLAN
1 1/2" = 1'-0"

SHAFTWALL PENETRATION DETAIL 19 AT CALL BOX AND OR HALL LANTERN
3" = 1'-0"

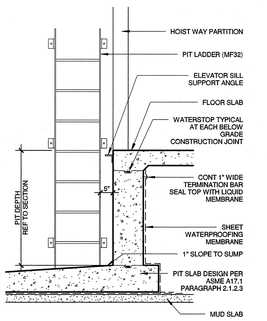
13 HANDRAIL MOUNTING AT GYP BOARD WALL
1 1/2" = 1'-0"



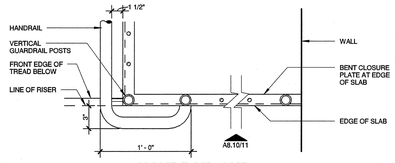
01 STRINGER TO SLAB CONNECTION
1" = 1'-0"



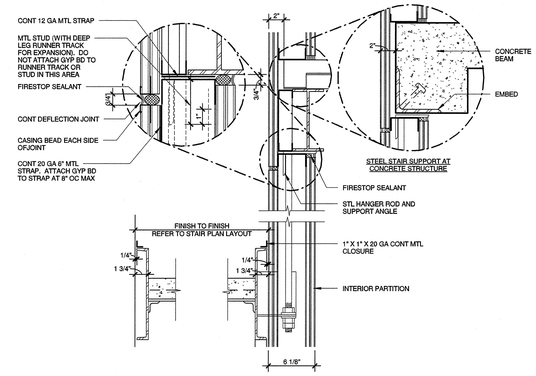
25 SHAFTWALL AT ELEVATOR
1 1/2" = 1'-0"



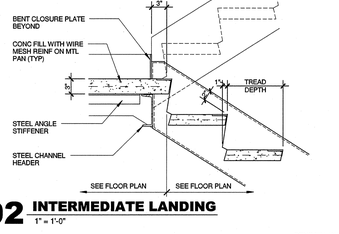
PIT SECTION WITH 20 POSITIVE SIDE WATERPROOFING
1/2" = 1'-0"



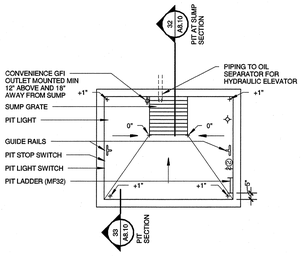
HANDRAIL AND 14 GUARDRAIL AT TOP LANDING
1 1/2" = 1'-0"



08 INTERMEDIATE LANDING SUPPORT
1 1/2" = 1'-0"



02 INTERMEDIATE LANDING
1" = 1'-0"



24 ELEVATOR PIT PLAN (TYPICAL 1 CAB)
1/4" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
ATLANTA, GA.30334

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

STATE OF GEORGIA
MARK B. HULTS
CERTIFICATE NO. RA019174
REGISTERED ARCHITECT
14 APR 11

KEY PLAN

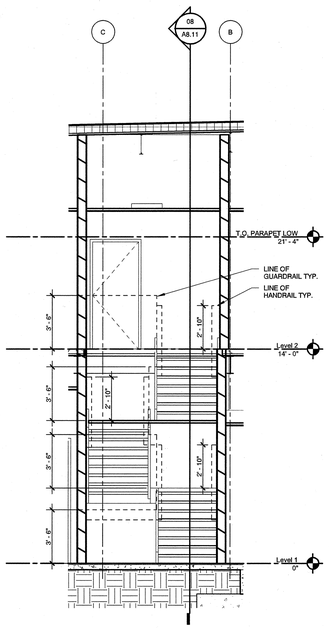
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.00
DATE
APR. 19, 2011
ISSUE
BID SET

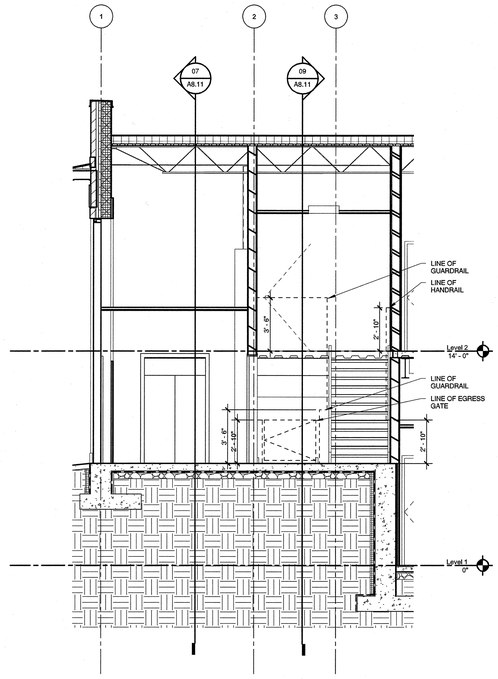
SHEET TITLE
STEEL STAIR PLANS, SECTIONS, AND DETAILS

SHEET NO.
A8.10

PLOT DATE: 4/19/2011 2:20:51 PM TEMPLATE VERSION: 2.5.0.20100809



11 STAIR 1 SECTION
1/4" = 1'-0"



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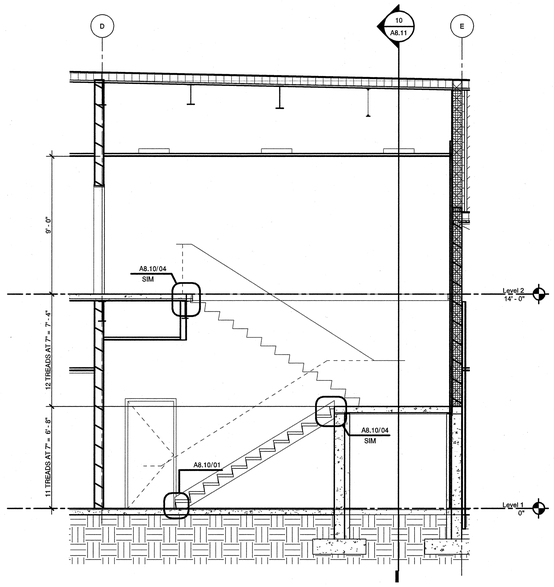
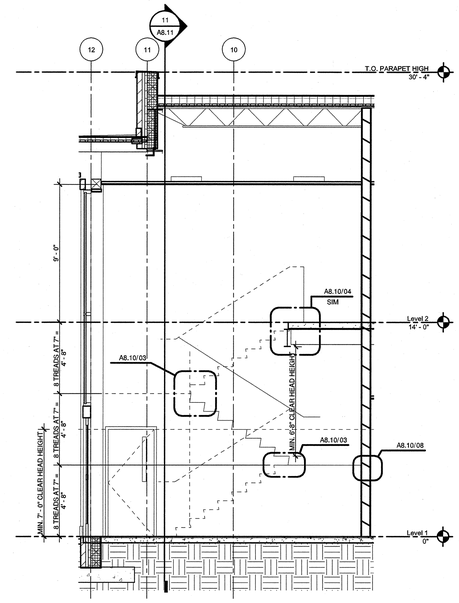
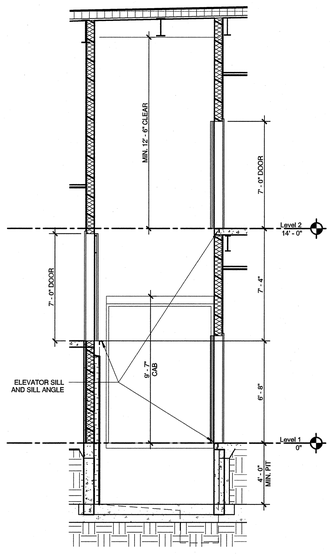
1/4" = 1'-0"



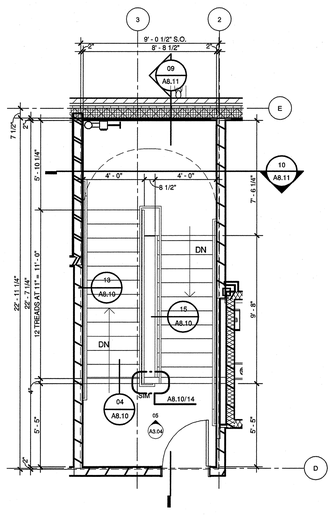
09 STAIR 2 SECTION
1/4" = 1'-0"



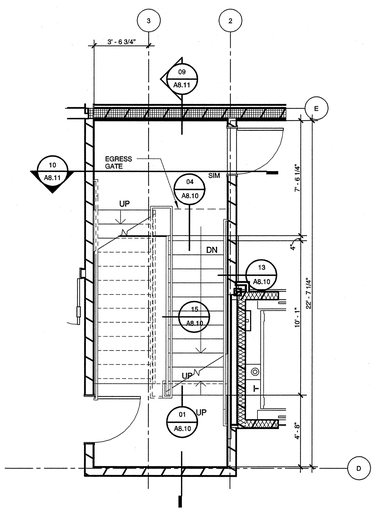
08 STAIR 1 SECTION
1/4" = 1'-0"



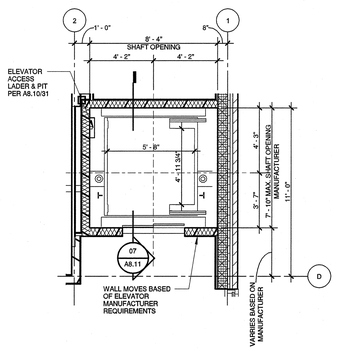
07 ELEVATOR SECTION
1/4" = 1'-0"



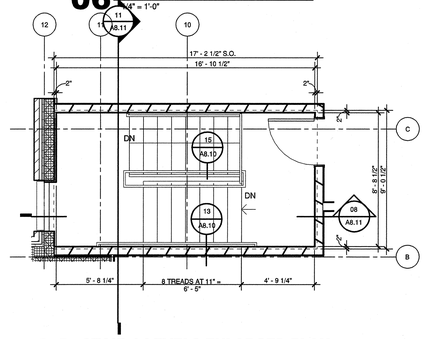
04 STAIR 2 LEVEL 2 ENLARGED PLAN
1/4" = 1'-0"



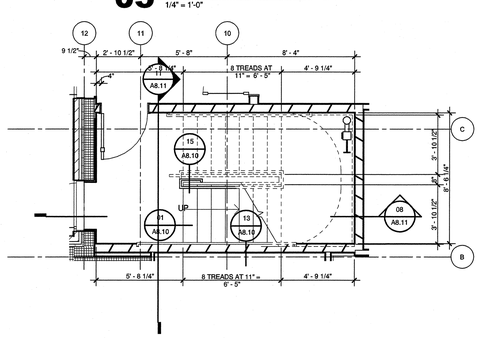
03 STAIR 2 ENLARGED PLAN
1/4" = 1'-0"



06 ELEVATOR PLAN LEVEL 2
1/4" = 1'-0"



02 STAIR 1 LEVEL2 ENLARGED PLAN
1/4" = 1'-0"



01 STAIR 1 LEVEL 1 ENLARGED PLAN
1/4" = 1'-0"

ARCHITECT
HKS, INC.
191 PEACHTREE STREET NE
SUITE 5000
ATLANTA, GA 30303

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1201 PEACHTREE STREET, N.E. SUITE 1600
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MARK B. HULTS
REGISTERED ARCHITECT
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KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
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DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
STAIR AND ELEVATOR PLANS AND SECTIONS
SHEET NO.
A8.11

PLOT DATE: 4/18/2011 2:31:00 PM TEMPLATE VERSION: 2.6.0.20100809

GENERAL NOTES

I. DESIGN CRITERIA

A. GENERAL BUILDING CODE
The Contract Documents are based on the requirements of the
1. International Building Code, 2006 edition. Including all 2007 Georgia Ammendments

B. DEAD LOADS
1. Hanging Ceiling and Mechanical Loads. An allowance of 10 PSF has been made for hanging ceiling and mechanical equipment loads such as duct work and sprinkler pipes.

C. LIVE LOADS
1. Design live loads are based on the more restrictive of the uniform load listed below or the concentrated load listed acting over an area 2.5 feet square.

CATEGORY	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LB)
1. Roof	20	N/A
2. Office Floors	81	2000
3. Lobbies,	100	1000
4. Classrooms	81	2000
5. First Floor Corridors, Stairways, Exit Facilities	100	0
6 Corridors Above First Floor <6'-0"	81	0
7. Corridors Above First Floor >6'-0"	100	0
8. Construction and Auto Lab	125	2000 over 20 sq.in.
9. Mechanical Rooms, large	125	Equip. wt.
10. Restrooms	Same as occupancy served	
11. Storage - Light	125	0
12. Library	125	0

NOTES:
1. Live Load Reduction. Live loads have been reduced using the standard procedure from the building code.

D. ELEVATOR LOADS
Machine Beam, Car Buffer, Counterweight Buffer, and Guide Rail Loads.

The General Contractor shall submit to the Design Professional final elevator shop drawings showing all loads to the structure prior to the installation of the elevators for verification of load carrying capacity.

E. MECHANICAL EQUIPMENT LOADS
The General Contractor shall submit actual weights of equipment to be used in the project to the Design Professional for verification of loads used in the design at least three weeks prior to fabrication and construction of the supporting structure.

F. WIND LOADS
1. Wind pressures are based on the American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures, ASCE 7-05 with a Wind Speed = 90 MPH (3 sec. gust), Wind Exposure Category B
Wind Importance Factor 1.15, Building Category III
Internal Pressure Coefficient +/-0.18
2. Wind pressures used in the design of the cladding:

COMPONENTS AND CLADDING WIND PRESSURES (PSF)

ZONE	TRIBUTARY AREA 10 ft2 or smaller		20 ft2		50 ft2		100 ft2		500 ft2 or greater	
WALL INTERIOR	+16.0	/ -17.4	+15.3	/ -16.7	+14.4	/ -15.7	+13.7	/ -15.0	+12.0	/ -13.4
WALL EDGE	+16.0	/ -21.4	+15.3	/ -19.9	+14.4	/ -18.1	+13.7	/ -16.7	+12.0	/ -13.4
ROOF INTERIOR	+10.0	/ -17.5	+10.0	/ -17.1	+10.0	/ -16.5	+10.0	/ -16.0	+10.0	/ -16.0
ROOF EDGE	+10.0	/ -29.4	+10.0	/ -26.3	+10.0	/ -22.1	+10.0	/ -19.0	+10.0	/ -19.0
ROOF CORNER	+10.0	/ -44.2	+10.0	/ -36.6	+10.0	/ -28.6	+10.0	/ -19.0	+10.0	/ -19.0

NOTES:
1. REFER TO GENERAL NOTES FOR INFORMATION REGARDING GOVERNING BUILDING CODE.
2. WIDTH OD END ZONE/EDGE/CORNER STRIP = 10
3. LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS NOT SHOWN
4. FOR PURPOSES OF DETERMINING ROOF NET UPLIFT FOR JOIST DESIGN AN ASSUMED SUPERIMPOSED DEAD LOAD OF 5 psf SHALL BE USED.

G. SNOW LOADS

Ground Snow PSF	Importance Factor	Exposure Factor	Thermal Factor
10 psf	1.1	0.9	1.0

Flat roof snow load: Pf = 7 psf

H. SEISMIC DESIGN CRITERIA
The structure and components of the building have been designed in accordance with aforementioned building code with the following criteria:

.2 sec. Spectral Acceleration (Ss) (%g):	29.9
1 sec. Spectral Acceleration (S1) (%g):	9.6
Site Class:	D
Site Coefficient, short period (Fa):	1.56
Site Coefficient, 1 sec. period (Fv):	2.4
.2 sec Spectral Response Coeff. (Sds) (%g)	31.1
1 sec Spectral Response Coeff. (Sd1) (%g)	15.36
Occupancy Catagory:	III
Occupancy Importance Factor, I:	1.25
Seismic Design Category:	C
Basic Seismic-Force Resisting System: Ordinary Reinforced Masonry Shear Walls and	
Response Modification Coefficient, R:	2
System Overstrength Factor, Omega-o:	2.5
Deflection Amplification Factor, Cd:	1.75
Design Seismic Base Shear	475 kips
Plan Structural Irregularity Type:	--none
Vertical Structural Irregularity Type:	none
Analytical Method: Equivalent Elastic	Lateral Force Procedure

I. LATERAL-FORCE RESISTING SYSTEM
The ability of the structural frame to resist lateral loads and provide stability under gravity loads derives from the complete installation of the lateral-force resisting systems and diaphragms described below. It shall be the Contractor's responsibility to provide all temporary bracing required to maintain the stability and safety of all elements during the construction process until all of these elements are completely installed and all designated concrete elements have reached a minimum of 75% of their design strength. The required structural elements are:

1. Masonry Load Bearing Wall System
a. Lateral-force Resisting System: Ordinary reinforced masonry shear walls upon which structural steel elements bear.
b. Diaphragm
i. A concrete floor slab that creates a continuous element linking the lateral-force-resisting elements to all other columns.
ii. A metal deck diaphragm that is completely attached to all roof members according to specifications and that creates a continuous element linking the lateral-load resisting system to all other columns.

J. BUILDING MOVEMENT AND DEFLECTIONS
The building movement specified herein is anticipated to occur and should be considered by the Contractor in the performance of the work.
1. Spandrel Beam Deflections. The following provision should be made for superimposed load deflection of one floor relative to an adjacent floor in the design, fabrication, and erection of the building cladding:
a. Typical Spandrel Beam - 3/8"
Superimposed load deflection is defined as all deflection anticipated to occur after the cladding has been erected. The relative deflection above does not include the floor deflection caused by the weight of the cladding itself or the dead load deflection of the floor framing itself, nor does it include any allowance for fabrication or erection tolerances.
2. Floor Deflections. The following provision for superimposed load deflections shall be made in the design, fabrication, and installation of all partitions, glass walls, and other elements supported by and attached to the structure:
a. Typical Floor Members - Span/360 but not less than 3/8"
b. Typical Roof Members - Span/360 but not less than 3/8"
3. Lateral Frame Deflection (Drift). The following provision for lateral frame deflection in the plane of the wall of one floor relative to an adjacent floor shall be design, fabrication and installation of the building cladding:
a. Typical Floor to Floor - Floor Height/400
b. First Floor to Second Floor - Floor Height/300

K. DESIGN LOAD FOR RESTROOM ACCESSORIES
Grab bars, tub and shower seats, fasteners, and mounting devices shall be designed to resist a concentrated load of 250 lbf at any location and in any direction.

L. HANDRAILS AND GUARDS
The handrail assemblies and guards shall be designed for 50#/ft or a concentrated load of 200-pounds at any point applied in any direction at the top and to transfer this load through the supports to the structure. These loads need not be assumed to act concurrently.

M. THE CONCENTRATED LOAD FOR STAIR TREADS
The individual stair treads shall be designed to support a 300-pound concentrated load placed in a position, which would cause maximum stress.

II. FOUNDATION

A. GEOTECHNICAL REPORT
Foundation design is based on the geotechnical investigation report as follows:
1. "Report of subsurface exploration and geotechnical engineering evaluation", prepared by NOVA Engineering and Environmental, Dated May 22, 2009, Report number 6209007. As well as the report addendum dated December 18, 2009.
The geotechnical report is available to the General Contractor upon request to the Design Professional. The information included therein may be used by the General Contractor for his general information only. The Design Professional will not be responsible for the accuracy or applicability of such data therein. "Data concerning subsurface materials or conditions which are based upon soundings, test pits, test borings, or other means, have been obtained by the Design Professional for its use in designing the project. The accuracy or completeness of the data is not guaranteed; and therefore, the Construction Proffesional shall not rely on this information without independent verification. Neither the Georgia Technical College System of Georgia, the Georgia State Financing and Investment Commission, nor Design Professional will be responsible in any way for additional compensation except as provided in the General Requirements Section - Changes due to Substance or Other Unforseen Conditios."

B. FOUNDATION TYPE
1. Spread Footing.
a. Design Pressures.
(1) Total Load: 2500 PSF net pressure.

C. RETAINING WALLS
1. Design Criteria.
a. Lateral Earth Pressure. 40 PSF per foot of depth active soil pressure. 60 PSF per foot of depth at rest soil pressure. 150 PSF per foot of depth passive soil pressure.
b. Surcharge. Foundation retaining walls have been designed for a surcharge load of 100 PSF.
The design pressures specified above are based on drained backfill with no buildup of water pressure behind the walls.

D. SLAB-ON-GRADE
Crane Loads. The Contractor is cautioned against loading the slab on grade with crane loads. The slab has not been designed for crane loads and will require an increase in slab thickness and/or reinforcement. The Contractor is required to submit calculations signed and sealed by a registered structural engineer in the state where the project is located verifying the adequacy of the slab.

E. CONSTRUCTION DEWATERING
The Contractor shall determine the extent of construction dewatering required for the excavation. The Contractor shall submit to the Design Professional for review the proposed plan for construction dewatering, prior to beginning the excavation.

III. REINFORCED CONCRETE

A. CLASSES OF CONCRETE
All concrete shall conform to the requirements as specified in the table below unless noted otherwise on the drawings:

Usage	28 Day Comp. Strength (PSI)	Conc Type	Max Size Agg.	Remarks
1. Spread Footings/ Plinths	4000	NWT	1 1/2"	
2. Foundation Walls	4000	NWT	1"	
3. Retaining Walls	4000	NWT	1"	
4. Typical Slab-on-Grade	3000	NWT	1"	
5. Heavy Duty Slab-on-Grade	4000	NWT	1"	
6. Metal Deck Slabs	3500	LWT	1"	

NWT = normal weight concrete
LWT = sand-lightweight concrete (120 pcf max.)
NOTE 1: Sand-light weight concrete used for composite metal decks shall have 4 to 7% air entrainment.

B. HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS
There shall be no horizontal construction joints in any concrete pours unless shown on the drawings. The Design Professional shall approve all deviations or additional joints in writing.

C. REINFORCING STEEL SPECIFICATION
1. All Reinforcing Steel shall be ASTM A615 Grade 60 unless noted otherwise on the drawings or in these notes.
2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706 for all reinforcing steel required to be welded and where noted on the drawings.
3. Deformed Bar Anchors. ASTM A496 minimum yield strength 75,000 PSI as noted on the drawings. Reinforcing bars shall not be substituted for deformed bar anchors.
4. Welded wire reinforcement. Welded smooth wire reinforcement, ASTM A 185, yield strength 65,000 PSI where noted on the drawings.

D. PLACEMENT OF WELDED WIRE REINFORCEMENT.
Wherever welded wire reinforcement is specified as reinforcement, it shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

E. REINFORCEMENT IN HOUSEKEEPING PADS
Provide reinforcing and dowels for all required housekeeping pads. See the typical detail. See MEP drawings for equipment requiring housekeeping pads.

F. REINFORCING STEEL COVERAGE
Reinforcing steel coverage should conform to the requirements specified below. Cover specified shall be considered minimums that may require increasing where reinforcing steel intersects for different member types. Cover in structural members not specified below shall conform to the requirements of ACI 318 unless specified otherwise on the drawings.
1. Foundation Members
a. Slab turn downs - 1 1/2" top, 3" bottom, 2" formed sides, 3" earth-formed sides
b. Basement Walls - 1 1/2" for #5 and smaller bars, 2" for #6 and larger bars dirt face, 3/4" interior face
c. Foundation Retaining Walls - 1 1/2" for #5 and smaller bars 2" for #6 and larger bars both faces
d. Sump Walls, Pit Walls - 1 1/2" for #5 and smaller bars 2" for #6 and larger bars both faces
e. Spread Footings, Combined Footings - 3" bottom, 2" top, 2" formed sides, 3" side cast against earth
f. Interior Slab on Grade - 1" top cover for one layer of steel 1" top cover, 3" bottom cover for two layers of steel
The reinforcing steel detailer shall adjust reinforcing steel cage sizes at intersecting structural members as required to allow clearance for intersecting reinforcing bar layers with minimum specified cover.

IV. STRUCTURAL STEEL

A. MATERIAL
1. Hot Rolled Structural Members. All hot rolled steel plates, shapes, sheet piling, and bars shall be new steel conforming to ASTM Specification A6.
2. ASTM Specification and Grade. Clearly mark the grade of steel on each piece, with a distinguishing mark visible from floor surfaces, for the purpose of field inspection of proper grade of steel. Unless noted otherwise on the drawings, structural steel shall be as follows:
a. Wide-Flange Beams. All wide-flange beams and WT shapes shall conform to ASTM A992. ASTM A572 Grade 50 is acceptable as a substitute for A992.
b. Channel Beams. All channels used as beams shall conform to ASTM A36.
c. Channel Girts. All channels used as wind girts shall conform to ASTM A36.
d. Edge Angles, Bent Plates, Angle Hanger, and Angle Kickers. All angles and bent plates shall conform to ASTM A36.
e. Square and Rectangular Hollow Structural Shape Columns. All square and rectangular HSS used as columns shall conform to
(1) ASTM A500, Grade B (Fy=46 ksi).
f. Square and Rectangular Hollow Structural Shape Wind Girts. All square and rectangular HSS used as wind girts shall conform to ASTM A500, Grade B (Fy=46 ksi).
g. Baseplates. All baseplates shall conform to ASTM specifications as follows:
(1) Plates to 4" thick inclusive - ASTM A572 Grade 50.
h. Connection Material.
(1) Beam Column Stiffener Plates and Doubler Plates. Beam column stiffener plates and doubler plates shall conform to ASTM A572 Grade 50.
(2) All connection material, except as noted otherwise herein or on the drawings, including bearing plates, gusset plates, stiffener plates, filler plates, angles, etc. shall conform to ASTM A36 unless a higher grade of steel is required by strength and provided the resulting sizes are compatible with the connected members.
i. Other Steel. Any other steel not indicated otherwise shall conform to ASTM A992 or ASTM A572-50 except plates and angles that shall be ASTM A36.

B. CONNECTIONS
1. Connection details not completely detailed on the drawings including material grade and sizes, weld sizes, and number of bolts shall be designed by the Contractor per the specifications.
2. Refer to the specifications for additional requirements.
3. Reactions noted on the plans are based on factored loads and are intended for use with the Load and Resistance Factor design method.

C. STRUCTURAL BOLTS AND THREADED FASTENERS
1. A325 Bolts. All bolts in structural connections shall conform to ASTM A325 Type 1, unless indicated otherwise on the drawings.
2. Threaded Round Stock. Threaded rods shall conform to:
a. ASTM A36.

D. WELDING
1. Unless noted otherwise, electrodes for welding shall conform to E70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), or E7XT-X (FCAW). Weathering steel electrodes shall conform to table 3.3 of the ANSI/AWS D1.1 Manual.

E. ANCHOR RODS
Unless indicated otherwise in the Column Schedule or on the drawings, anchor rods shall conform to ASTM F1554 Grade 55 and the size shall be 3/4"Ø and shall embed into the concrete foundation a distance a 1'-0" with a heavy hex nut at the embedded end. Strike bolt threads at the embedded end at two places below the nut.

F. GROUT
Grout below structural steel base plates shall be non-metallic, non-shrink grout with a minimum strength of 6000 psi when bearing on 3000 psi concrete or less.

V. OPEN WEB STEEL JOISTS

A. FABRICATION AND ERECTION
1. End Supports and End Anchorage.
a. Provide standard depth of bearing for all joists as shown below unless detailed otherwise on the drawings:
(1) All K Series - 2 1/2"
b. Provide flat bearing for all joists, unless shown otherwise on drawings. Increase the depth of the seat on the high end of sloped joists as required to provide clearance for the connection.

B. DESIGN
1. All Joists shall carry the design loads as specified in the SJI load tables as the minimum requirement. Additionally, the joists shall be designed to carry any other load types and patterns as indicated on the drawings.
2. Steel joists, bridging, and their connections shall be designed for a net uplift as indicated on the general notes section I.F. See also 12/S5.03

VI. STEEL DECKS

A. COMPOSITE DECK
1. Schedule

Depth	Design Gage	Design Fy	Min. Sp	Min. Sn	Min. I	Superimposed Service Design Load
Deck Thickness (ksi)			(in^3)	(in^3)	(in^4)	
See Plan	See Plan	40	0.334	0.305	0.401	120 psf

2. Shear Connector Sizes For Composite Metal Deck
Construction. Stud diameter and length (before weld,BW) shall be as follows:
a. 5.5" total slab thickness - 3/4"dia x 4 3/16" BW

B. ROOF DECK
1. Schedule.

Mark	Depth	Gage	Type
See Plan	See Plan	See Plan	See Plan

2. Connection to Structure.
a. Unless noted otherwise, the attachment pattern for steel roof deck to structural steel shall be as follows:

Fastening of deck to each support member:

Fastener	Pattern
5/8" Puddle Welds	36/5

Fastening of deck to support members parallel to deck ribs where shown on plan:

Fastener	Maximum Spacing
#12 Screw	24"

Side laps of adjacent deck units:

Side Lap Fastener	Maximum Spacing
#12 Screw	12"

b. Fastening to the supporting member at deck side laps shall be on both sides of the lap for interlocking laps or through both plies of deck for overlapping laps.

VII. CONCRETE MASONRY

A. SCOPE
Reinforced concrete masonry shall be used as back-up for exterior brick walls and elsewhere as indicated on the drawings. See architectural wall sections.

B. Compressive Strength, f'm of Reinforced Masonry

Class of Reinforced Masonry	28 Day Compressive Strength, f'm
a. Single Wythe Grouted Masonry	1500 psi
b. Multi-Wythe Grouted Masonry	1500 psi

VIII. SPECIAL INSPECTIONS

A. The Design Professional's testing laboratory shall provide special inspection services in accordance with the International Building Code for the following items.
1. Reinforcing Steel Placement
2. Periodic Inspection of Reinforcing Steel Placing
3. Bolts Installed in Concrete
4. Concrete Work
5. Inspection of Structural Steel, Bolting, Welding Material
6. Welding of Structural Steel
7. High-Strength Bolting
8. Spray-Applied Fire-Resistive Materials
9. Prepared Earth Fill
10. Masonry Work
Refer to Specification Section 014529 and the statement of inspection.

IX. MISCELLANEOUS

A. CONTRACT DOCUMENTS
1. It is the responsibility of the General Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication of any structural members, and erection in the field.
2. The contract structural drawings and specifications represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

B. DRAWING CONFLICTS
The General Contractor shall compare the Architectural and Structural drawings and report any discrepancy between each set of drawings and within each set of drawings to the Design Professional prior to the fabrication and installation of any structural members.

C. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION
All structural elements of the project have been designed by the Design Professional to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together.

D. CONFLICTS IN STRUCTURAL REQUIREMENTS
Where conflict exists among the various parts of the design professional's documents, drawings, general notes, and specifications, the strictest requirements, as indicated by the Design Professional, shall govern.

E. STABILITY AND BRACING OF MASONRY WALLS DURING CONSTRUCTION
All masonry walls shown on the architectural and structural drawings have been designed to resist the required code vertical and lateral forces applied to them in the final constructed configuration only assuming full bracing top, bottom, and/or side of wall as shown. It is the responsibility of the Contractor to properly and adequately brace all masonry walls at all stages during construction to resist erection loads and lateral loads that could possibly be applied prior to completion of construction.

G. THE DESIGN PROFESSIONAL ROLE DURING CONSTRUCTION
1. The Design Professional shall not have control nor charge of, and shall not be responsible for, construction means methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
2. Periodic site observation by field representatives of Walter P. Moore and Associates is solely for the purpose of becoming generally familiar with the progress and quality of the Work completed and determining, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor.

X. SUBMITTALS

A. SUBMITTAL LIST AND SCHEDULE
The General Contractor shall prepare a detailed list and schedule of all submittal items to be sent to the Design Professional prior to the start of construction. This list shall be updated and revised and kept current as the job progresses. The submittal list shall be organized as shown below:
1. Shop Drawings
2. Manufacturers Literature for Products, Assemblies, and Hardware
3. Products, Assemblies and Hardware
4. Product Certifications, Mill Certificates, and Affidavits
5. Design Calculations

B. SHOP DRAWINGS
1. The General Contractor shall submit for design professional review shop drawings for the following items:
(1) Bar Joists (*)
(2) Concrete Mix Designs (-)
(3) Elevators
(4) Embedded Items (Plates, Angles, Bolts, etc.) or items attached to the structural frame for building cladding attachment or for attachment of other items
(5) Floor Metal Deck
(6) Light Gauge (Cold Formed Steel) Metal used to support exterior cladding or as load bearing members (*)
(7) Miscellaneous Steel
(8) Reinforcing Steel
(9) Roof Metal Deck
(10) Steel Stairs (*)
(11) Structural Steel, Shop and Erection Drawings (*)
(12) Structural Steel Building Erection-Bracing Drawings (*)
(13) Survey of Structural Steel Erection (*)
Notes:
(*) Items marked thus shall have shop drawings sealed by a registered engineer in the state where the project is located per the project specifications.
(-) Items marked thus shall also be submitted to the Testing Agent for their review.
2. All shop drawings must be reviewed and stamped by the General Contractor prior to submittal.
3. Contractor shall submit one set of reproducibles and two sets of prints for all shop drawings specified to be returned by the Design Professional.
4. The omission from the shop drawings of any materials required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved.

C. MANUFACTURERS LITERATURE
Submit two copies of manufacturers literature for all materials and products used in construction on the project.

D. DESIGN CALCULATIONS
The General Contractor shall submit for Design Professional review two sets of design calculations sealed by a registered engineer in the state where the project is located for the following items:
1. Structural Steel Connections
2. Bar Joists
3. Steel Stairs
4. Light Gauge Metal (Cold Formed Steel) used to support exterior cladding or as load bearing members

Items marked thus (#) shall be submitted for Owner's record only.

E. REPRODUCTION
The use of electronic files or reproductions of these contract documents by any contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies their acceptance of all information shown hereon as correct, and obligates themselves to any job expense, real or implied, arising due to any errors that may occur hereon.

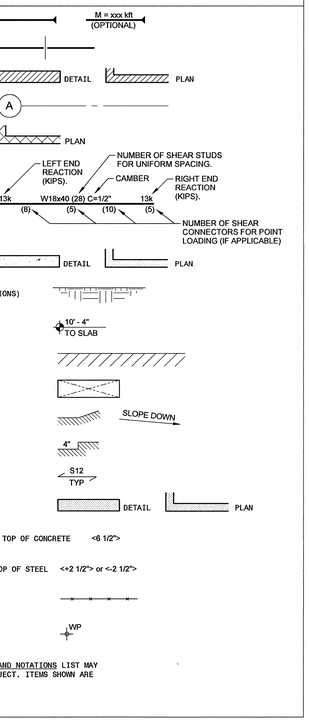
XI. DRAWING INTERPRETATION

A. STRUCTURAL ABBREVIATIONS
The following abbreviations are used on the structural drawings:

@	AT	LBS	POUNDS
&	AND	Ld	DEVELOPMENT LENGTH
#	NUMBER	LLBB	LONG LEG BACK TO BACK
o	ROUND, DIAMETER	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LONG	LONGITUDINAL
AFF	ABOVE FINISHED FLOOR	LSH	LONG SLOTTED HOLE
AHR	ANCHOR	LSLP	LONG-SLOTTED HOLE PARALLEL
AHU	AIR HANDLING UNIT	LSLT	LONG-SLOTTED HOLE TRANVERSE
ALT	ALTERNATE	LSV	LONG SLOTTED VERTICAL
APPROX	APPROXIMATE	LWC	LIGHTWEIGHT CONCRETE
AR	ANCHOR ROD	M	MOMENT
ARCH	ARCHITECTURAL	MAS	MASONRY
BLDG	BUILDING	MAX	MAXIMUM
BM	BEAM	MC	MOMENT CONNECTION
BO	BOTTOM OF	MECH	MECHANICAL
BOT	BOTTOM	MEZZ	MEZZANINE
BRDG	BRIDGING	MFR	MANUFACTURE(R)
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
C	CAMBER,COMPRESSION REACTION	MTL	METAL
CANTIL	CANTILEVER	NIC	NOT IN CONTRACT
CIP	CAST-IN-PLACE	NS	NEAR SIDE
CJ	CONSTRUCTION/CONTROL JOINT	NTS	NOT TO SCALE
CJP	COMPLETE JOINT PENETRATION	NWC	NORMAL WEIGHT CONCRETE
CL	CENTER LINE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OPH	OPPOSITE HAND
CONC	CONCRETE	OPNG	OPENING
CONN	CONNECTION	OPP	OPPOSITE
CONST	CONSTRUCTION	OWS	OPERABLE WALL SUPPORT
CONT	CONTINUOUS	OVS	OVERSIZED HOLE
COORD	COORDINATE	P	AXIAL LOAD
COV	COVER	PAF	POWDER ACTUATED FASTENER
CPRS	COMPRESSIBLE	PAR	PARALLEL
CTRS	CENTERS	PCC	PRECAST CONCRETE
db	BAR DIAMETER	PCF	POUNDS PER CUBIC FOOT
DBA	DEFORMED BAR ANCHOR	PERP	PERPENDICULAR
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIM	DIMENSION	PJP	PARTIAL JOINT PENETRATION
DWA	DEFORMED WIRE ANCHOR	PRELIM	PRELIMINARY
DWG	DRAWING	PROP	PROPERTY
EA	EACH	PSF	POUNDS PER SQUARE FOOT
EF	EACH FACE	PSI	POUNDS PER SQUARE INCH
EJ	EXPANSION JOINT	PT	POST-TENSION(ED)
EL	ELEVATION	QTY	QUANTITY
ELEV	ELEVATOR	R	RADIUS, REACTION, REMAINDER
EMBED	EMBEDMENT	REF	REFERENCE
ENGR	ENGINEER	REINF	REINFORCING
EOP	EDGE OF PLATE	REQD	REQUIRED
EQ	EQUAL	REV	REVISION
EQUIP	EQUIPMENT	RTU	ROOF TOP UNIT
EQUIV	EQUIVALENT	SC	SLIP CRITICAL, SHEAR CONNECTOR
EW	EACH WAY	SCHED	SCHEDULE(D)
EXIST	EXISTING	SDS	SELF-DRILLING SCREW
EXP	EXPANSION	SECT	SECTION
EXT	EXTERIOR	SHT	SHEET
FAB	FABRICATE	SIM	SIMILAR
F'c=	28 DAY CONCRETE STRENGTH	SLBB	SHORT LEG BACK TO BACK
FD	FLOOR DRAIN	SPA	SPACING
FDTN	FOUNDATION	SPEC	SPECIFICATION
FIN	FINISH(ED)	SPRT	SUPPORT
FLR	FLOOR	SQ	SQUARE
FS	FAR SIDE	SSLP	SHORT-SLOTTED HOLE PARALLEL
FTG	FOOTING	SSLT	SHORT-SLOTTED HOLE TRANSVERSE
FUT	FUTURE	STD	STANDARD
FV	FIELD VERIFY	STIF	STIFFENER
Fy=	YIELD STRENGTH=	STIR	STIRRUP
GALV	GALVANIZE(D)	STL	STEEL
GEN	GENERAL	STRUCT	STRUCTURE, STRUCTURAL
GR	GRADE	SYMM	SYMMETRIC, SYMMETRICAL
H	HORIZONTAL REACTION	T	TENSION REACTION
HGR	HANGER	t	PLATE THICKNESS, TREAD
HORIZ	HORIZONTAL	THD	THREADED
HSA	HEAD STUD ANCHOR	TO	TOP OF
HSS	HOLLOW STRUCTURAL SECTION	TC	TRANSFER COLUMN
ID	INSIDE DIAMETER	TOC	TOP OF CONCRETE
INFO	INFORMATION	TOF	TOP OF FOOTING
INT	INTERIOR	TOM	TOP OF MASONRY
JT	JOINT	TOS	TOP OF STEEL, TOP OF SLAB
K	KIPS (1000 LBS)	TYP	TYPICAL
KSF	KIPS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
KSI	KIPS PER SQUARE INCH	VERT	VERTICAL
		WF	WIDE FLANGE
		WP	WORK POINT
		WS	WATERSTOP
		WT	WEIGHT
		WWR	WELDED WIRE REINF.
		XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG

B. TYPICAL DETAILS
Details labeled "Typical Details" on the drawings shall apply to all situations occurring on the project that are the same or similar to those specifically detailed. The applicability of the detail to its location on the plans can be determined by the title of the detail. Such details shall apply whether or not they are keyed in at each location. Decisions regarding applicability of Typical Details shall be determined by the Design Professional.

SYMBOLS AND ANNOTATIONS



NOTE:
ITEMS SHOWN ON THIS SYMBOLS AND NOTATIONS LIST MAY OR MAY NOT APPLY TO THIS PROJECT. ITEMS SHOWN ARE FOR REFERENCE ONLY.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLACE, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
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OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. SAINT 4.19.11

KEY PLAN

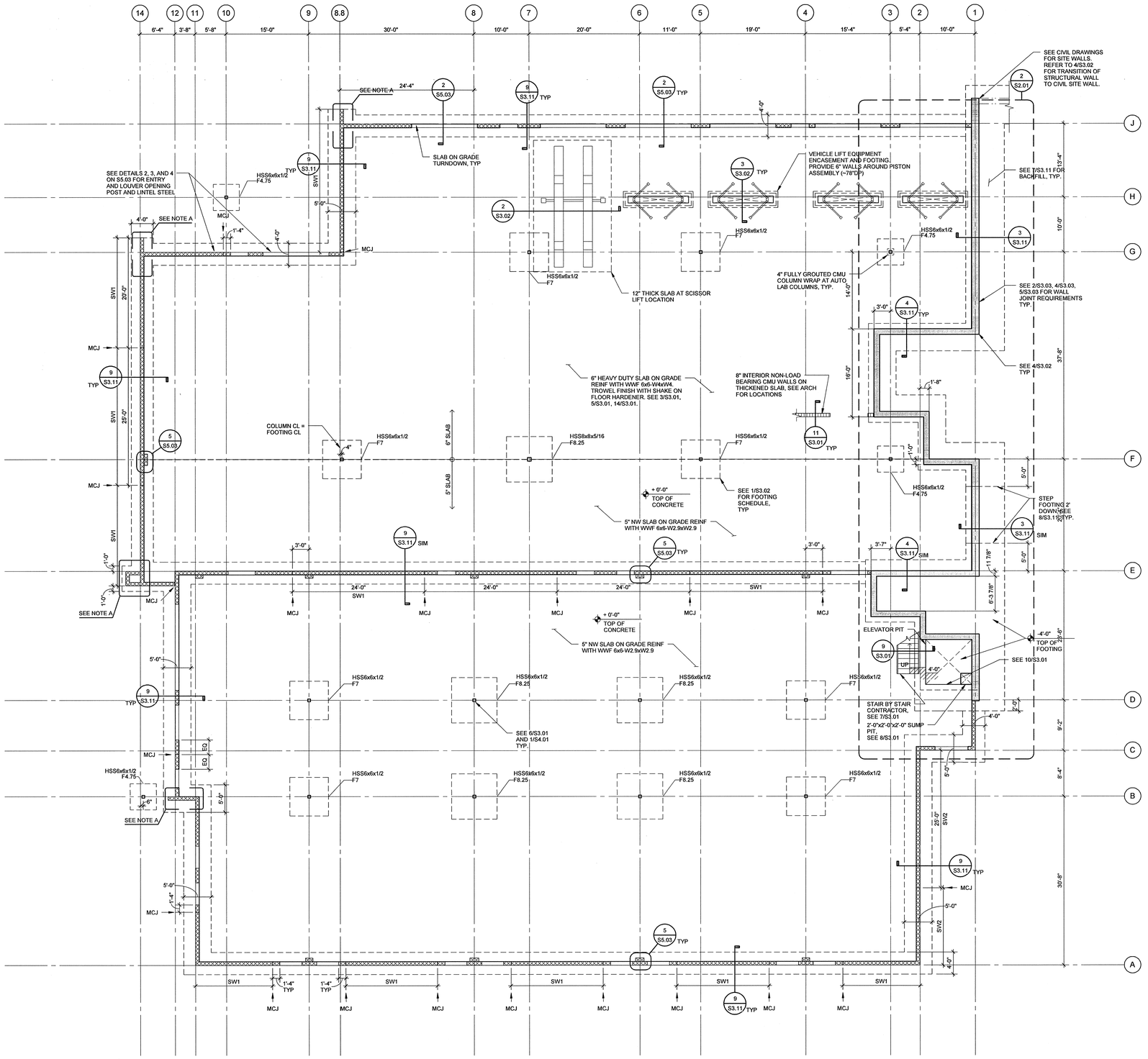
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

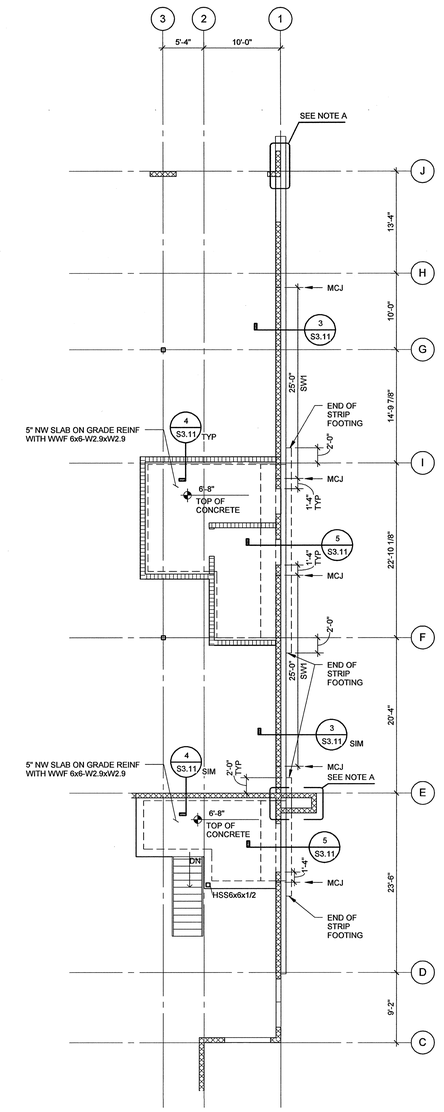
SHEET TITLE
GENERAL NOTES

SHEET NO.
S1.01

PLOT DATE: 4/19/2011 2:02:15 PM TEMPLATE VERSION:



1 LEVEL 1
1/8" = 1'-0"



2 LEVEL 1.5
1/8" = 1'-0"

PLAN NOTES:
1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. LEVEL 1 FIN FLOOR ELEVATION = DATUM ELEVATION 0'-0".
3. TOP OF ALL FOOTINGS SHALL BE -2'-0" FROM DATUM ELEVATION UNLESS NOTED OTHERWISE.
4. SEE PLAN FOR SLABS ON GRADE.
5. PLAN DESIGNATION:
   Fxx DENOTES SPREAD FOOTING TYPE "xx"
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
7. CONTRACTOR TO VERIFY ALL SLAB EDGE, STAIR AND ELEVATOR OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
8. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLAB PENETRATIONS AND UNDERGROUND UTILITIES.
9. REFER TO THE S3 SERIES DRAWINGS FOR FOUNDATION SECTIONS AND DETAILS.
10. REFER TO THE S4 SERIES DRAWINGS FOR STEEL FRAMING SECTIONS AND DETAILS.
11. REFER TO THE S5 SERIES DRAWINGS FOR REINFORCED MASONRY SECTIONS AND DETAILS.
12. SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES AND DRAINS.
13. PROVIDE 2-#4 X 4'-0" ADDITIONAL SLAB REINFORCEMENT AT RE-ENTRANT CORNERS U.N.O.
14. "MCJ" DENOTES CONCRETE MASONRY UNIT CONTROL JOINT LOCATION.

REFERENCED NOTES:
A. #4@8" VERTICAL REINFORCING WITH BOND BEAMS WITH 2-#5 EVERY 40'. PROVIDE 2-#5x2'-0"x2'-0" L-SHAPED BARS AT CORNERS.

SHEAR WALL SCHEDULE			
WALL	VERTICAL REINF	SHEAR REINF	
		GAGE	SPACING
SW1	#4@16" WITH 2-#7 EACH END	SEE SPEC	16"
SW2	#4@8" WITH 8-#7 EACH END (2 PER CELL)	SEE SPEC	2-#5@40" BOND BEAMS + MIN JOINT REINF @ 16"

NOTES:
1. CMU WALLS ARE 8" LOAD-BEARING CMU WALLS UNO.
2. LOAD-BEARING CMU WALLS NOT DESIGNATED AS SHEAR WALLS SHALL HAVE #4@24" MIN VERTICAL REINFORCING AND (2)W1.7 (9GA) @ 16" MIN JOINT REINFORCING UNLESS MORE STRINGENT JOINT REINFORCEMENT GAGE IS SHOWN IN THE SPECIFICATIONS.

PLOT DATE: 4/18/2011 2:02:15 PM
TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
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270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
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SUITE 400
ATLANTA, GA. 30345

GEORGIA — WILLIAM PAUL MOORE — 024744 — PROFESSIONAL ENGINEER — 4.19.11 — 1901 HWY. 9 — SAINT

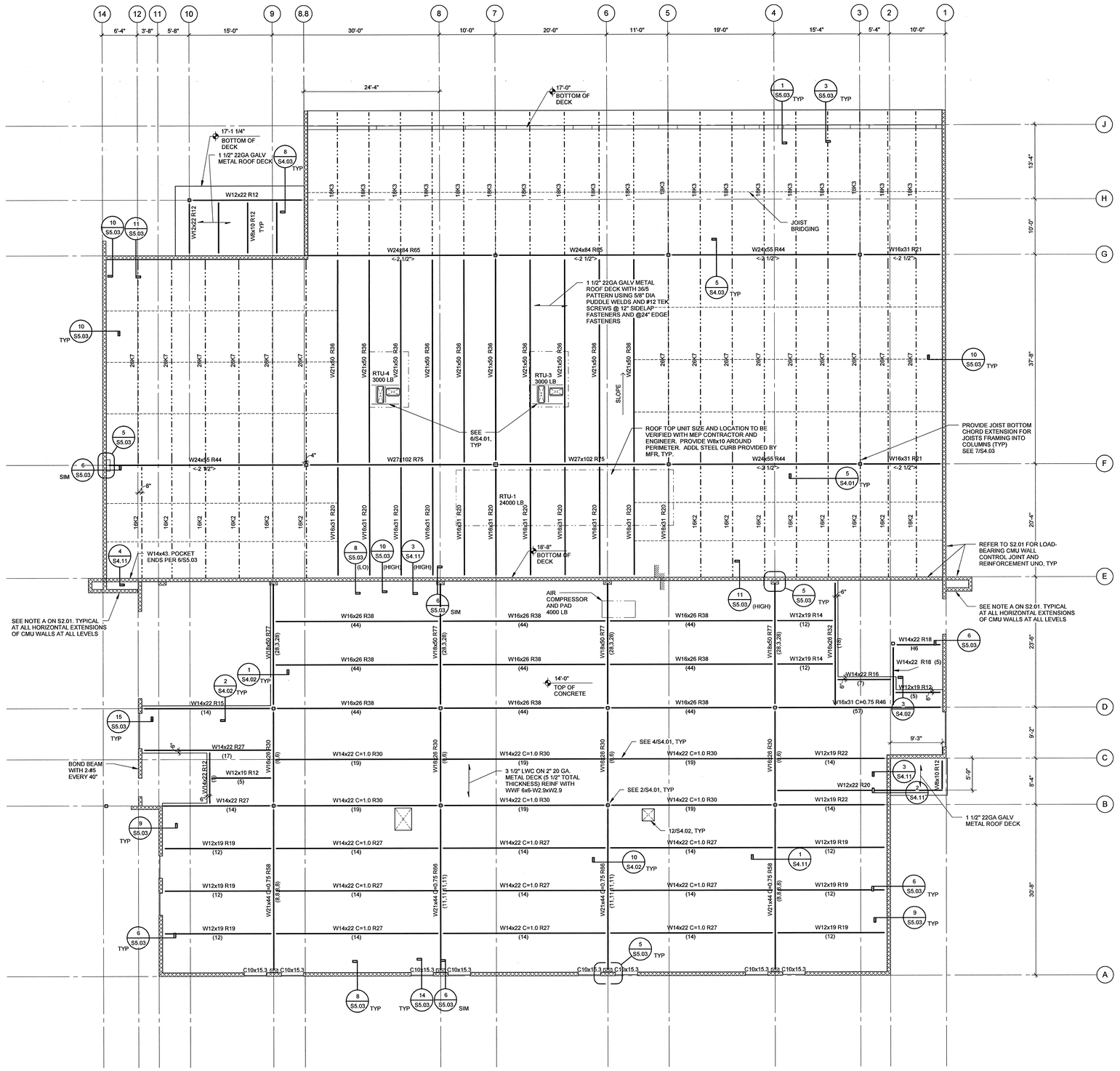
KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FLOOR PLAN LEVEL ONE

SHEET NO.
S2.01



1 LEVEL 2 / LOW ROOF PLAN

1/8" = 1'-0"

PLAN NOTES:

1. LEVEL 1 FIN FLOOR ELEVATION = DATUM ELEVATION 0'-0".
2. SEE PLAN FOR TOP OF STRUCTURAL SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SLAB EDGE AND ELEVATOR OPENING DIMENSIONS.
5. REFER TO THE S3 SERIES DRAWINGS FOR FOUNDATION SECTIONS AND DETAILS.
6. REFER TO THE S4 SERIES DRAWINGS FOR STEEL FRAMING SECTIONS AND DETAILS.
7. REFER TO THE S5 SERIES DRAWINGS FOR REINFORCED MASONRY SECTIONS AND DETAILS.
8. PROVIDE 2-#4 TOP AND BOT BARS X 5'-0" AT ALL RE-ENTRANT CORNERS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR CMU WALL LOCATIONS. CMU WALL LOCATIONS SHOWN IN STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR COORDINATE.

STEEL FRAMING NOTES:

1. REFER TO PLAN FOR COMPOSITE SLAB ON METAL DECK.
2. REFER TO GENERAL NOTES FOR STRUCTURAL STEEL TYPE AND GRADE REQUIREMEN'UNLESS NOTED OTHERWISE.
3. TOP OF STRUCTURAL STEEL SHALL BE 5 1/2" BELOW TOP OF STRUCTURAL SLAB UNLESNOTED OTHERWISE.
4. STEEL BEAM CONNECTION ULTIMATE (LRFD FACTORED) FORCES:
   A. RXX INDICATES THE DESIGN SHEAR REACTION (KIPS) IN THE VERTICAL PLANE FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END.
   B. LXX INDICATES THE DESIGN SHEAR REACTION (KIPS) IN THE HORIZONTAL PLANE FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END.
   C. HXX INDICATES THE DESIGN AXIAL REACTION (KIPS) FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END AND IS REVERSIBLE U.N.O.
   ALL CONNECTION FORCES ACT CONCURRENTLY.
5. ROOFTOP UNIT WEIGHTS SHALL BE VERIFIED WITH MFR BY CONTRACTOR. CONTRACTNOTIFY DESIGN PROFESSIONAL PRIOR TO INSTALLING ROOFTOP UNITS IF UNIT OPERAWEIGHT IS MORE THAN THE VALUE LISTED.
6. METAL DECK SHALL BE PLACED WITH A TWO SPAN CONDITION MINIMUM. NO SINGLE SPANS ALLOWED WITHOUT DESIGN PROFESSIONAL'S WRITTEN APPROVAL.
7. PLACE #4 x 4'-0" @12" ACROSS STEEL GIRDERS BELOW THE WWR PER TYPICAL DETAIL.
8. STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HDIPPED GALVANIZED.

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

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1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

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ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. SAINT

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

ISSUE
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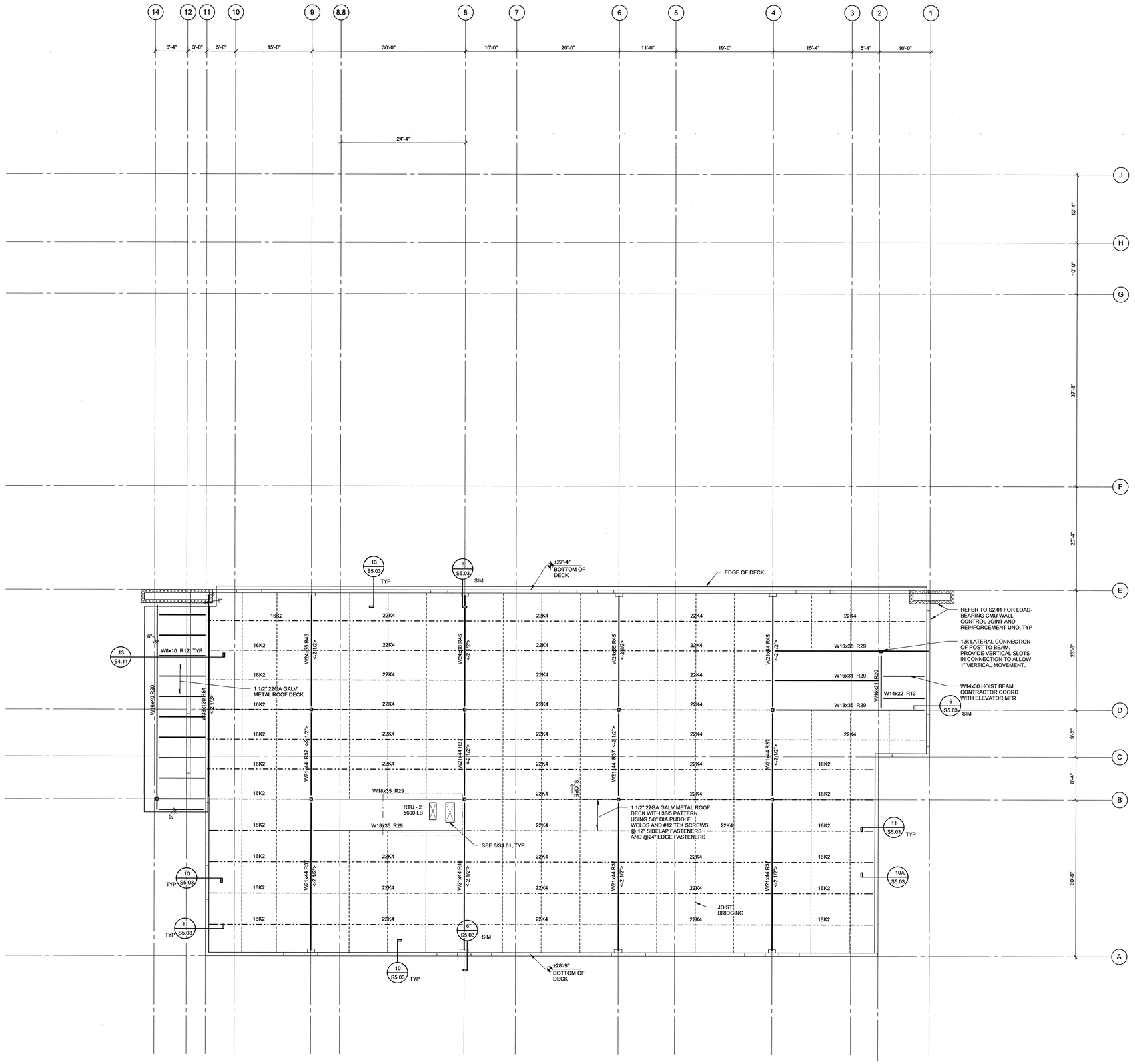
SHEET TITLE
FLOOR PLAN LEVEL TWO

SHEET NO.
S2.02

PLOT DATE: 4/19/2011 2:06:07 PM TEMPLATE VERSION:



1 ROOF PLAN
1/8" = 1'-0"

PLAN NOTES:

1. LEVEL 1 FIN FLOOR ELEVATION = DATUM ELEVATION 0'-0".
2. SEE PLAN FOR TOP OF STRUCTURAL SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SLAB EDGE AND ELEVATOR OPENING DIMENSIONS.
5. REFER TO THE S3 SERIES DRAWINGS FOR FOUNDATION SECTIONS AND DETAILS.
6. REFER TO THE S4 SERIES DRAWINGS FOR STEEL FRAMING SECTIONS AND DETAILS.
7. REFER TO THE S5 SERIES DRAWINGS FOR REINFORCED MASONRY SECTIONS AND DETAILS.
8. PROVIDE 2-#4 TOP AND BOT BARS X 5'-0" AT ALL RE-ENTRANT CORNERS.
9. REFER TO ARCHITECTURAL DRAWINGS FOR CMU WALL LOCATIONS. CMU WALL LOCATIONS SHOWN IN STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR COORDINATE.

STEEL FRAMING NOTES:

1. REFER TO PLAN FOR COMPOSITE SLAB ON METAL DECK.
2. REFER TO GENERAL NOTES FOR STRUCTURAL STEEL TYPE AND GRADE REQUIREMEN'UNLESS NOTED OTHERWISE.
3. TOP OF STRUCTURAL STEEL SHALL BE 5 1/2" BELOW TOP OF STRUCTURAL SLAB UNLESNOTED OTHERWISE.
4. STEEL BEAM CONNECTION ULTIMATE (LRFD FACTORED) FORCES:
   A. RXX INDICATES THE DESIGN SHEAR REACTION (KIPS) IN THE VERTICAL PLANE FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END.
   B. LXX INDICATES THE DESIGN SHEAR REACTION (KIPS) IN THE HORIZONTAL PLANE FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END.
   C. HXX INDICATES THE DESIGN AXIAL REACTION (KIPS) FOR BOTH BEAM ENDS OR FOR THE NEAREST BEAM END IF SHOWN AT EACH END AND IS REVERSIBLE U.N.O.
   ALL CONNECTION FORCES ACT CONCURRENTLY.
5. ROOFTOP UNIT WEIGHTS SHALL BE VERIFIED WITH MFR BY CONTRACTOR. CONTRACTNOTIFY DESIGN PROFESSIONAL PRIOR TO INSTALLING ROOFTOP UNITS IF UNIT OPERAWEIGHT IS MORE THAN THE VALUE LISTED.
6. METAL DECK SHALL BE PLACED WITH A TWO SPAN CONDITION MINIMUM. NO SINGLE SPANS ALLOWED WITHOUT DESIGN PROFESSIONAL'S WRITTEN APPROVAL.
7. PLACE #4 x 4'-0" @12" ACROSS STEEL GIRDERS BELOW THE WWR PER TYPICAL DETAIL.
8. STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HDIPPED GALVANIZED.

PLOT DATE: 4/18/2011 2:52:56 PM TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — REGISTERED — TIMOTHY R. SAMS — No. 024662 — PROFESSIONAL ENGINEER — 4.19.11

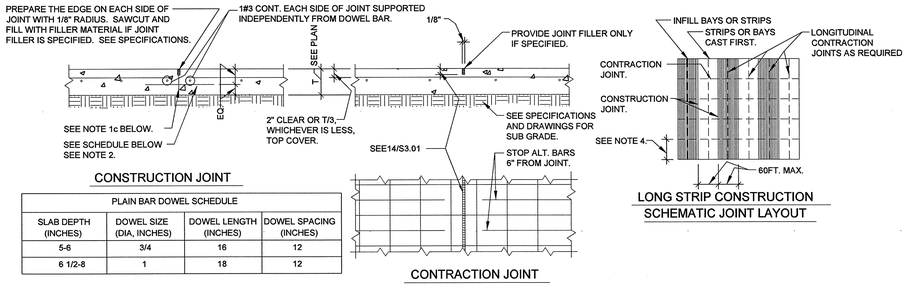
KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
ROOF PLAN

SHEET NO.
S2.03



CONSTRUCTION JOINT

PLAIN BAR DOWEL SCHEDULE			
SLAB DEPTH (INCHES)	DOWEL SIZE (DIA, INCHES)	DOWEL LENGTH (INCHES)	DOWEL SPACING (INCHES)
5-6	3/4	16	12
6 1/2-8	1	18	12

CONTRACTION JOINT

LONG STRIP CONSTRUCTION SCHEMATIC JOINT LAYOUT

1. CONSTRUCTION JOINT NOTES
   a. SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
   b. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
   c. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDES OF JOINT WITH A CURING COMPOUND, BONDBREAKER, OR FORM OIL.
   d. LONG STRIP CONSTRUCTION METHOD SHALL BE USED IN PLACING CONCRETE FOR ALL SLABS ON GRADE U.N.O. SEE SCHEMATIC PLAN ABOVE FOR COMPLETE PLACING SEQUENCE. AT CONTRACTOR'S OPTION, LARGER SLAB AREAS MAY BE POURED PROVIDED THE EARLY-ENTRY DRY-CUT METHOD OF INSTALLING CONTRACTION JOINTS IS USED. SEE THE SPECIFICATIONS.
2. DOWEL NOTES:
   LIGHTLY COAT THE EXPOSED END OF THE DOWELS WITH A PARAFFIN-BASED LUBRICANT, ASPHALT EMULSION, FORM OIL OR GREASE IMMEDIATELY BEFORE PLACING CONCRETE ON THE SECOND SIDE OF THE JOINT OR USE A PLASTIC OR METAL SLEEVE SPECIFICALLY MANUFACTURED FOR THIS PURPOSE, TO PREVENT A BOND BETWEEN THE DOWEL AND THE CONCRETE.
3. CONTRACTION JOINT NOTES:
   MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB. SEE SPECIFICATIONS.
4. JOINT SPACING NOTE:
   PROVIDE CONTRACTION OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 TIMES THE SLAB THICKNESS NOR 20 FEET, WHICHEVER IS LESS.

5 TYPICAL DETAIL JOINTS AND REINFORCEMENT LOCATION - SLAB ON GRADE

NTS

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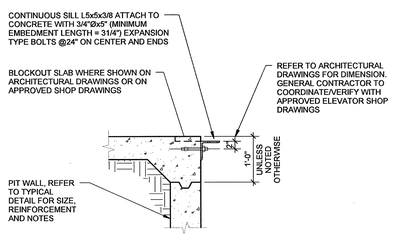
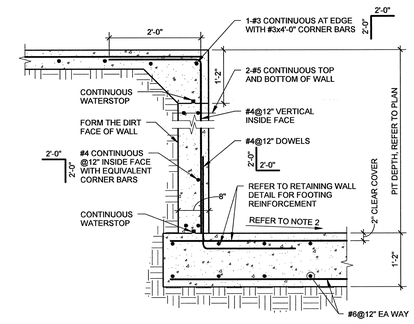


NOTES:
1. PROVIDE CONTINUOUS ELEVATOR SILL ANGLE AT THRESHOLD OF ELEVATOR PIT. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
2. INSTALL EXPANSION BOLTS ACCORDING TO MANUFACTURER'S REQUIREMENTS.

10 TYPICAL ELEVATOR PIT SILL ANGLE CONNECTION

NTS

03300-FN-ELPIT-04



NOTES:
1. BRACE WALL AS REQUIRED UNTIL UPPER SLAB IS POURED AND HAS REACHED A STRENGTH OF 2500 PSI MINIMUM.
2. REFER TO PLAN FOR SUMP PIT, , SLOPE PIT BOTTOM SLAB 1" TO SUMP PIT.
3. REFER TO OTHER DETAILS FOR ELEVATOR SILL ANGLE AND DIVIDER BEAM CONNECTIONS, WHERE APPLICABLE.
4. GENERAL CONTRACTOR TO COORDINATE ELEVATOR PIT SIZE, DEPTH, SILL DETAIL, AND BLOCKOUT REQUIREMENTS WITH ELEVATOR MANUFACTURER'S APPROVED SHOP DRAWINGS.
5. WHERE ELEVATOR PIT SLAB IS BLOCKED OUT TO ALLOW FOR PLACEMENT OF HYDRAULIC ELEVATOR JACK, FILL BLOCKOUT WITH CONCRETE AFTER JACK IS SET.

9 ELEVATOR PIT

NTS

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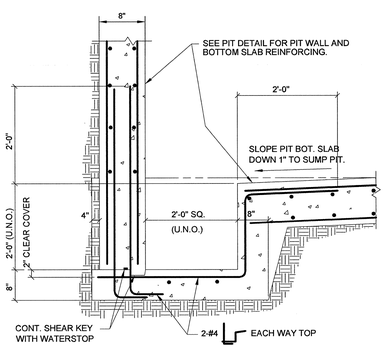


NOTE:
1. SEE PLAN FOR LOCATION AND SIZE WHERE DIFFERENT FROM DIMENSIONS SHOWN IN THIS DETAIL.

8 ELEVATOR SUMP PIT

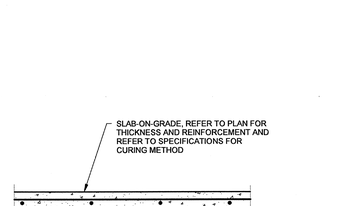
12" = 1'-0"

SLAB SCHEDULE						
SLAB	CONCRETE STRENGTH (psi)	THICK -NESS	TOP REINFORCEMENT WWF	CONSTRUCTION/ CONTRACTION JOINT	DOWELS	FINISH
HEAVY DUTY SHOP SLABS	GENERAL NOTES	SEE PLAN	SEE PLAN	2" DEEP FILL WITH SEMI-RIGID EPOXY JOINT FILLER.	N/A	TROWEL FINISH WITH SHAKE-ON FLOOR HARDENER
TYPICAL INTERIOR SLAB WITH FLOOR COVERINGS	GENERAL NOTES	SEE PLAN	SEE PLAN	1 1/2" DEEP	N/A	SMOOTH TROWEL FINISH
METAL DECK SLAB	GENERAL NOTES	SEE PLAN	SEE PLAN	N/A	N/A	TROWEL FINISH

NOTES:
1) SEE GENERAL NOTES FOR CONCRETE TYPE.
2) SEE TYPICAL DETAILS FOR OTHER INFORMATION NOT SHOWN.

14 TYPICAL SLAB SCHEDULE

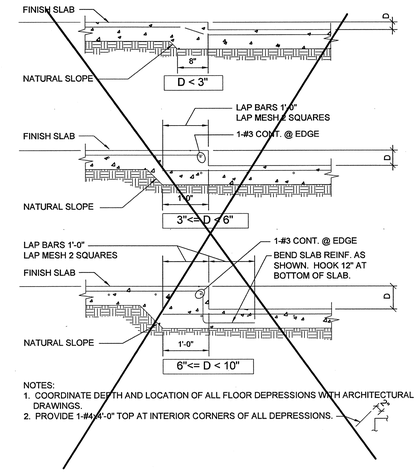
NTS



3 TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION

NTS

03200-FN-SUPREP-016



NOTES:
1. COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE 1-#4x4'-0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

2 NOT USED

NTS

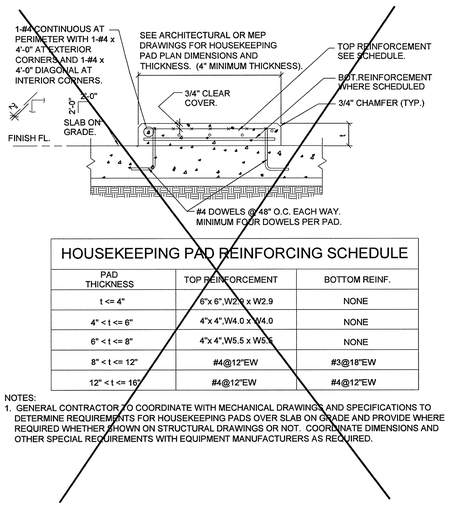
03300-FN-SOG-01

NOTES:
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF STAIR STRINGER LOCATIONS WITH ARCHITECTURAL DRAWINGS AND PROVIDE TURNDOWNS WHERE REQUIRED WHEATHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. CLIP ANGLE TO BE HIDDEN BENEATH FIRST TREAD WHERE OPEN RISERS ARE USED. COORDINATE THE LOCATION WITH THE ARCHITECT.

7 TYPICAL SLAB ON GRADE TURNDOWN AT STEEL STAIR

NTS

03300-FN-SOG-11



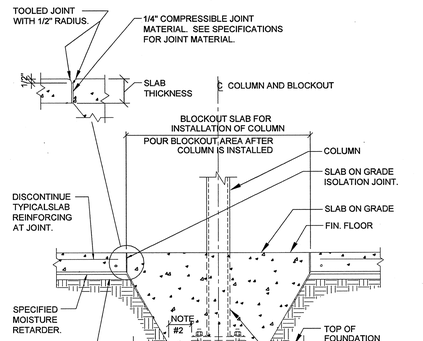
HOUSEKEEPING PAD REINFORCING SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINF.
t <= 4"	6"x 6",W2.9 x W2.9	NONE
4" < t <= 6"	4"x 4",W4.0 x W4.0	NONE
6" < t <= 8"	4"x 4",W5.5 x W5.5	NONE
8" < t <= 12"	#4@12"EW	#3@18"EW
12" < t <= 16"	#4@12"EW	#4@12"EW

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB ON GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.

12 NOT USED

NTS

03300-SC-SOG-01



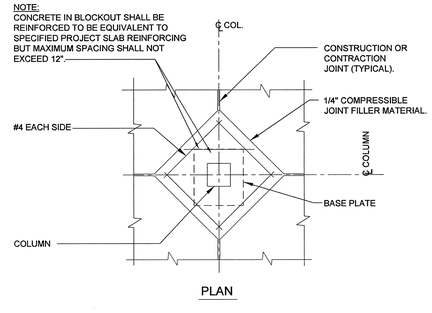
DETAIL

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT FOR APPROVAL.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.

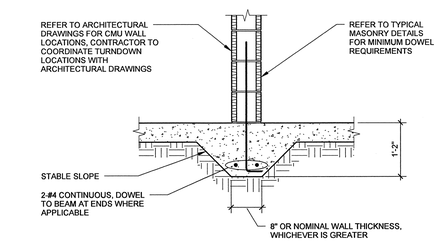
6 TYPICAL SLAB ON GRADE BLOCKOUT AROUND STEEL COLUMNS WITH LOW PERMEABLE FINISH MATERIAL

NTS

03300-FN-SOG-185



PLAN



11 TYPICAL INTERIOR SLAB-ON-GRADE TURNDOWN

NTS

03300-FN-SOG-04

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — TIMOTHY R. SMITH — 5 JAMES — PROFESSIONAL ENGINEER — 4.19.11

KEY PLAN

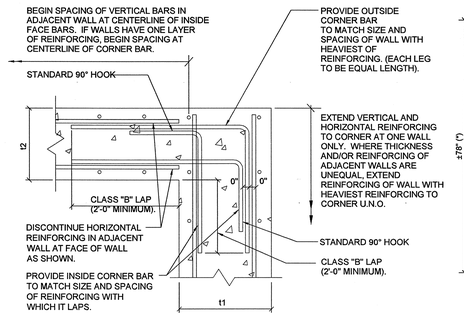
REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FOUNDATION TYPICAL DETAILS

SHEET NO.
S3.01

PLOT DATE: 4/19/2011 2:20:03 PM TEMPLATE VERSION:

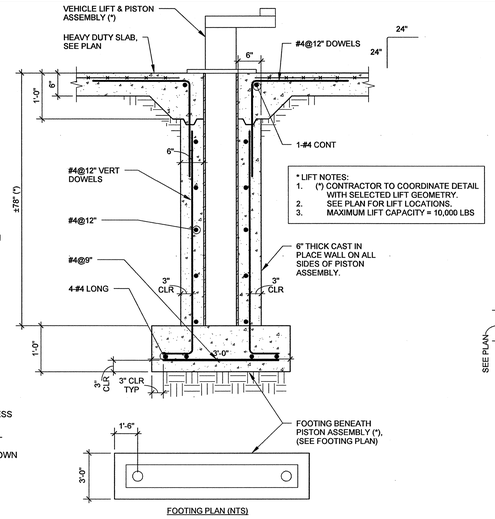


NOTES:
1. SEE OTHER DETAILS FOR REQUIRED WALL THICKNESS AND REINFORCING.
2. THERE SHALL BE NO VERTICAL CONSTRUCTION JOINTS IN WALLS WITHIN 5'-0" OF CORNERS UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
3. t1 DENOTES THICKNESS OF ONE WALL. t2 DENOTES THICKNESS OF ADJACENT WALL. t1 IS EQUAL TO OR GREATER THAN t2.
4. UNLESS SHOWN OTHERWISE, ANGLE BETWEEN ADJACENT WALLS SHALL BE 90°. IF ANGLE IS SHOWN OTHERWISE, PROVIDE SIMILAR REINFORCING LAYOUT.

4 TYPICAL CONCRETE WALL REINFORCING STEEL SPLICE AT CORNERS (PLAN VIEW)

NTS

00000-WL-WLCORN-1



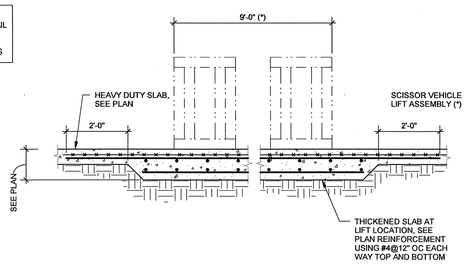
* LIFT NOTES:
1. (*) CONTRACTOR TO COORDINATE DETAIL WITH SELECTED LIFT GEOMETRY.
2. SEE PLAN FOR LIFT LOCATORS.
3. MAXIMUM LIFT CAPACITY = 10,000 LBS

FOOTING PLAN (NTS)

3 VEHICLE LIFT FOUNDATION

3/4" = 1'-0"

* LIFT NOTES:
1. (*) CONTRACTOR TO COORDINATE DETAIL WITH SELECTED LIFT GEOMETRY.
2. SEE PLAN FOR LIFT LOCATORS.
3. MAXIMUM LIFT CAPACITY = 12,000



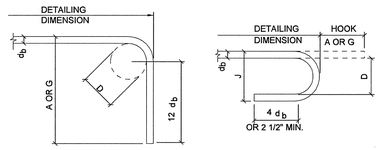
2 SCISSOR LIFT FOUNDATION

1/2" = 1'-0"

SPREAD FOOTING SCHEDULE				
MARK	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCEMENT
F4.75	4'-9"	4'-9"	1'-2"	5-#6 EA WAY
F7	7'-0"	7'-0"	1'-4"	8-#6 EA WAY
F8.25	8'-3"	8'-3"	1'-6"	11-#6 EA WAY

1 SPREAD FOOTING SCHEDULE

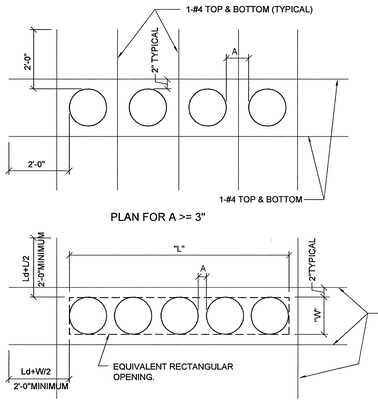
1" = 1'-0"



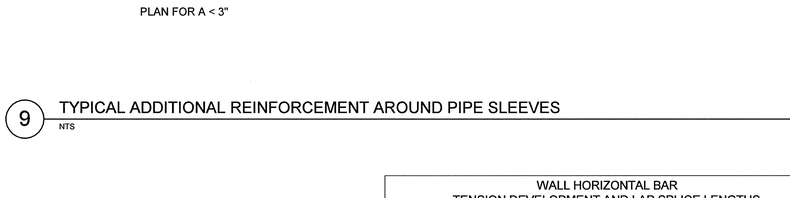
90° HOOK 180° HOOK

RECOMMENDED END HOOKS, ALL GRADES				
BAR SIZE	FINISHED BEND DIAMETER D,(IN.)	180° HOOKS		90° HOOKS
		A OR G,(IN.)	J,(IN.)	A OR G,(IN.)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND



PLAN FOR A >= 3"



PROVIDE 1/2 OF INTERRUPTED REINFORCEMENT PLUS ONE ADDITIONAL BAR OF SAME SIZE AS INTERRUPTED REINFORCEMENT ON EACH SIDE OF EQUIVALENT RECTANGULAR OPENING. PROVIDE MINIMUM 1-#4 TOP AND BOTTOM EACH SIDE OF OPENING.

PLAN FOR A < 3"

NOTES:
1. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS LESS THAN 3", THE SLEEVE GROUP SHALL BE TREATED AS AN EQUIVALENT RECTANGULAR OPENING WITH LENGTH "L" AND WIDTH "W" AS SHOWN ABOVE.
2. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS GREATER THAN OR EQUAL TO 3", SCHEDULED SLAB BAR REINFORCEMENT SHALL BE OFFSET AS REQUIRED TO MISS SLEEVES.
3. REINFORCEMENT SHOWN IS ADDITIONAL TO SCHEDULED SLAB REINFORCEMENT.
4. SCHEDULED SLAB MESH REINFORCEMENT MAY BE CUT AS REQUIRED TO MISS PIPE SLEEVES.
5. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF SLEEVES.
6. ISOLATED PIPE SLEEVES THAT ARE SMALLER THAN 5" AND DO NOT INTERUPT REINFORCING DO NOT REQUIRE THE USE OF THIS DETAIL.
7. THIS DETAIL SHOULD NOT BE USED FOR OPENING GROUPS WITH DIAMETERS LARGER THAN 12". CONSULT ENGINEER FOR FRAMING OF SUCH CONDITIONS.

9 TYPICAL ADDITIONAL REINFORCEMENT AROUND PIPE SLEEVES

NTS

5500-FL-SLOPG-2

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE													
BAR SIZE	f'c=3000 PSI		f'c=4000 PSI		f'c=5000 PSI		f'c=6000 PSI		f'c=7000 PSI		f'c=8000 PSI		BAR SIZE
	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	
#3	9	7	8	6	7	6	6	6	6	6	6	6	#3
#4	11	8	10	7	9	7	8	6	8	6	7	6	#4
#5	14	10	12	9	11	8	10	7	9	7	9	7	#5
#6	17	12	15	11	13	10	12	9	11	8	11	8	#6
#7	20	14	17	12	15	11	14	10	13	10	12	9	#7
#8	22	16	19	14	17	12	16	12	15	11	14	10	#8
#9	25	18	22	16	20	14	18	13	17	12	16	12	#9
#10	28	20	25	18	22	16	20	14	19	14	18	13	#10
#11	31	22	27	19	24	17	22	16	21	15	19	14	#11
#14	38	-	33	-	29	-	27	-	25	-	23	-	#14
#18	50	-	43	-	39	-	35	-	33	-	31	-	#18

NOTES:
1. Ldh = DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (INCHES).
2. Ldh = Lhb UNLESS CONDITIONS OF NOTE 3 ARE SATISFIED.
3. Ldh = 0.7Lhb FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLANE OF HOOK) IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOKS COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
4. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BARS IN COMPRESSION.
5. Ldh SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINFORCING BARS.

7 TYPICAL DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION

NTS

00860-CN-DELHA-01

6 TYPICAL DETAIL END HOOK TYPES

NTS

03210-GL-REBAR-02

WALL HORIZONTAL BAR TENSION DEVELOPMENT AND LAP SPLICE LENGTHS GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE							
BAR SIZE	LAP CLASS	f'c = 3000 PSI	f'c = 4000 PSI	f'c = 5000 PSI	f'c = 6000 PSI	f'c = 7000 PSI	f'c = 8000 PSI
#3	A	13	12	12	12	12	12
	B	17	16	16	16	16	16
#4	A	22	19	17	16	14	14
	B	29	25	23	21	19	19
#5	A	32	28	25	23	21	20
	B	42	37	33	30	28	26
#6	A	43	37	34	31	28	27
	B	56	49	45	41	37	36
#7	A	69	60	54	49	46	43
	B	90	78	71	64	60	56
#8	A	86	74	67	61	56	53
	B	112	97	88	80	73	69
#9	A	104	90	81	74	68	64
	B	136	117	106	97	89	84
#10	A	125	108	97	88	82	77
	B	163	141	127	115	107	101
#11	A	146	127	114	104	96	90
	B	190	166	149	136	125	117

NOTES:
1. ALL SPLICE LENGTHS ARE IN INCHES.
2. THIS TABLE SHALL BE USED FOR WALL HORIZONTAL BARS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR WALL VERTICAL BARS AND OTHER MEMBERS.
3. THE TENSION DEVELOPMENT LENGTH (Ld) IS EQUAL TO THE SCHEDULED "CLASS A" LAP SPLICE LENGTH.
4. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.3.
5. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS A" SPLICE LENGTH OF THE LARGER BAR.

13 TYPICAL WALL HORIZONTAL BAR TENSION DEVELOPMENT AND LAP SPLICE LENGTHS

NTS

00860-FL-DELSP-05

WALL VERTICAL BAR TENSION DEVELOPMENT AND LAP SPLICE LENGTHS GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE													
BAR SIZE	LAP CLASS	f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI		f'c = 6000 PSI		f'c = 7000 PSI		f'c = 8000 PSI	
		CATEGORY 1	CATEGORY 2	CATEGORY 1	CATEGORY 2	CATEGORY 1	CATEGORY 2	CATEGORY 1	CATEGORY 2	CATEGORY 1	CATEGORY 2	CATEGORY 1	CATEGORY 2
#4	A	17	17	15	15	15	15	15	15	15	15	15	15
	B	22	22	19	19	17	17	16	16	15	15	15	15
#5	A	21	25	19	21	19	19	19	19	19	19	19	19
	B	27	32	24	28	21	25	19	23	19	21	19	20
#6	A	25	33	23	29	23	26	23	24	23	23	23	23
	B	33	43	28	37	25	34	23	31	23	28	23	27
#7	A	41	48	35	42	32	38	29	34	27	32	27	30
	B	53	63	46	54	41	49	38	45	35	41	33	39
#8	A	51	55	44	48	40	43	36	39	34	36	31	34
	B	66	72	57	62	51	56	47	51	44	47	41	44
#9	A	62	62	54	54	48	48	44	44	41	41	38	38
	B	81	81	70	70	63	63	57	57	53	53	50	50
#10	A	71	71	61	61	55	55	50	50	47	47	44	44
	B	92	92	80	80	71	71	65	65	60	60	56	56
#11	A	84	84	73	73	65	65	60	60	55	55	52	52
	B	109	109	95	95	85	85	77	77	72	72	67	67

NOTES:
1. ALL SPLICE LENGTHS ARE IN INCHES.
2. THIS TABLE SHALL BE USED FOR WALL VERTICAL BARS ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR WALL HORIZONTAL BARS AND OTHER MEMBERS.
3. THE TENSION DEVELOPMENT LENGTH (Ld) IS EQUAL TO THE SCHEDULED "CLASS A" LAP SPLICE LENGTH. FOR DETERMINING THE BAR CATEGORY, "db" IS DEFINED AS THE DIAMETER OF THE LARGER BAR BEING SPLICED.
4. THE "CATEGORY 1" LAP LENGTH SHALL BE USED WHEN THE CLEAR SPACING BETWEEN BARS AT THE SPLICE IS EQUAL TO OR GREATER THAN 3db.
5. THE "CATEGORY 2" LAP LENGTH SHALL BE USED WHEN THE CLEAR SPACING BETWEEN BARS AT THE SPLICE IS LESS THAN 3db AND GREATER THAN 2db.
6. WHEN THE CLEAR SPACING BETWEEN BARS AT THE SPLICE IS EQUAL TO OR LESS THAN 2db, SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE SPLICED AT ANY GIVEN LOCATION. REFER TO " TYPICAL CLEAR SPACING CRITERIA OF LAP SPLICED BARS, STAGGERED SPLICES " FOR CRITERIA TO DETERMINE CLEAR SPACING "S" FOR BARS AT STAGGERED SPLICES.
7. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPLICE LENGTHS BY 1.5.
8. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS A" SPLICE LENGTH OF THE LARGER BAR.

12 TYPICAL CAST IN PLACE WALL VERTICAL BAR TENSION DEVELOPMENT AND LAP SPLICE LENGTHS

NTS

00860-CL-DELSP-02

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — TIMOTHY R. SANTA — No. 28462 — PROFESSIONAL ENGINEER — 4.19.11

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000

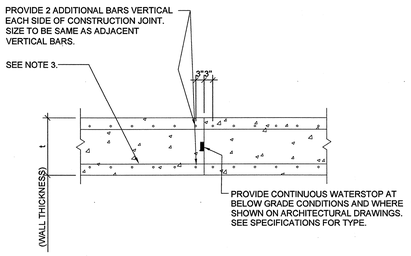
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
FOUNDATION TYPICAL DETAILS

SHEET NO.
S3.02

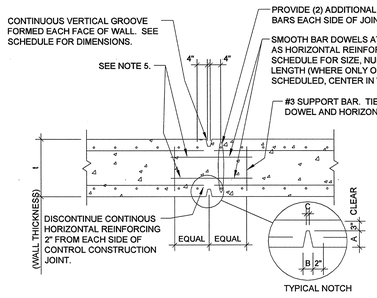
PLOT DATE: 4/18/2011 2:52:09 PM TEMPLATE VERSION:



NOTES:
1. SUBMIT PROPOSED WALL JOINT LOCATIONS FOR APPROVAL PRIOR TO POURING WALL. JOINTS SHALL BE SPACED NO CLOSER THAN 5'-0" FROM CORNERS AND PILASTERS.
2. WHERE WALL SPANS HORIZONTALLY TO SUPPORT VERTICAL OR LATERAL LOADS, JOINTS SHALL BE LOCATED IN MIDDLE THIRD OF WALL SPANS, UNLESS NOTED OTHERWISE. SEE PLANS FOR LOCATIONS WHERE WALLS ARE SO DESIGNED.
3. SEE GENERAL NOTES FOR WALL REINFORCING SPLICE CRITERIA. (SPLICE ALLOWED BUT NOT REQUIRED AT CONSTRUCTION JOINTS.)

5 TYPICAL VERTICAL CONSTRUCTION JOINT AT CONCRETE WALL CONSEALED OR VISUALLY NON-CRITICAL EXPOSURE (PLAN VIEW)

NTS



TYPICAL NOTCH

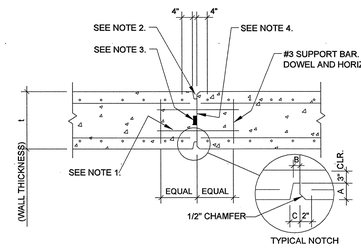
WALL THICKNESS t (INCHES)	A	B	C
8" <= t < 12"	1"	1/2"	1/4"
12" <= t < 16"	1 1/2"	1/2"	1/4"
16" <= t < 22"	2"	3/4"	3/8"
22" <= t < 26"	2 1/2"	3/4"	3/8"
26" <= t < 36"	3"	1"	1/2"
36" <= t < 42"	4"	1 1/4"	1/2"
t >= 42"	5"	1 3/8"	1/2"

HORIZ. BAR SIZE	DOWEL NUMBER, SIZE x LENGTH	
	t < 12"	t >= 12"
#4	(1)1/2"Ø x 2'-0"	(2)3/8"Ø x 2'-0"
#5	(1)1/2"Ø x 2'-0"	(2)3/8"Ø x 2'-0"
#6	(1)3/4"Ø x 3'-2"	(2)1/2"Ø x 2'-0"
#7	(1)7/8"Ø x 4'-4"	(2)5/8"Ø x 2'-6"
#8	(1)7/8"Ø x 4'-4"	(2)5/8"Ø x 2'-6"
#9	N.A.	(2)3/4"Ø x 3'-2"
#10	N.A.	(2)7/8"Ø x 4'-4"
#11	N.A.	(2)1"Ø x 6'-0"

NOTES:
1. LOCATE VERTICAL CRACK CONTROL JOINTS ACCORDING TO THE FOLLOWING CRITERIA:
   A. WHERE SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
   B. AT 30'-0" MAXIMUM SPACING ALONG A CONTINUOUS LENGTH OF WALL.
   C. WITHIN 10'-0" OF CORNERS, NO CLOSER THAN 5'-0" FROM CORNERS OR PILASTERS.
   D. AT ABRUPT CHANGES IN WALL THICKNESS OR HEIGHT.
   E. DO NOT LOCATE VERTICAL JOINTS IN WALLS THAT SPAN HORIZONTALLY TO RESIST LATERAL LOADS.
2. WHERE CONTROL JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS, SUBMIT LAYOUT FOR APPROVAL PRIOR TO FORMING AND POURING WALLS.
3. FORM PANELS SHALL BE SPLICED ONLY AT CRACK CONTROL JOINTS.
4. FORM GROOVE WITH WOOD, RUBBER, PLASTIC OR METAL FORMER STRIPS WITH WALL FORMS. FILL GROOVE WITH PERMANENT SEALANT AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
5. LIGHTLY GREASE ONE END OF DOWEL BAR OR USE A PLASTIC OR METAL DOWEL BAR SLEEVE SPECIFICALLY DESIGNED FOR THE PURPOSE OF PREVENTING BOND BETWEEN THE DOWEL AND THE CONCRETE. DOWEL BARS SHALL BE SECURELY TIED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. BARS SHALL BE PARALLEL TO FACE OF WALL AND HORIZONTAL.
6. SEE "TYPICAL DETAIL - VERTICAL CONSTRUCTION JOINT AT CONCRETE WALL, EXPOSED OR VISUALLY CRITICAL CONDITION" FOR CONSTRUCTION JOINT DETAIL.
7. THIS DETAIL IS NOT TO BE USED WHERE WALL SPANS HORIZONTALLY TO SUPPORT LATERAL AND/OR VERTICAL LOADS. SEE PLANS FOR LOCATIONS WHERE WALL ARE SO DESIGNED.

4 VERTICAL CONTROL JOINT-CONCRETE WALL EXPOSED OR VISUALLY CRITICAL CONDITION

12" = 1'-0"



TYPICAL NOTCH

WALL THICKNESS t (INCHES)	A	B	C
8" <= t < 12"	1"	3/8"	1/4"
12" <= t < 16"	1 1/2"	3/8"	1/4"
16" <= t < 22"	2"	9/16"	3/8"
22" <= t < 26"	2 1/2"	9/16"	3/8"
26" <= t < 36"	3"	3/4"	1/2"
36" <= t < 42"	4"	7/8"	1/2"
t >= 42"	5"	1"	1/2"

HORIZ. BAR SIZE	DOWEL NUMBER, SIZE x LENGTH	
	t < 12"	t >= 12"
#4	(1)1/2"□ x 2'-0"	(2)3/8"□ x 2'-0"
#5	(1)1/2"□ x 2'-0"	(2)3/8"□ x 2'-0"
#6	(1)3/4"□ x 3'-2"	(2)4/8"□ x 2'-0"
#7	(1)7/8"□ x 4'-4"	(2)5/8"□ x 2'-6"
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#9	N.A.	(2)6/8"□ x 3'-2"
#10	N.A.	(2)7/8"□ x 4'-4"
#11	N.A.	(2)1"□ x 6'-0"

NOTES:
1. PROVIDE SMOOTH DOWEL BARS AT SAME SPACING AS HORIZONTAL REINFORCEMENT. SEE SCHEDULE FOR NUMBER, SIZE AND LENGTH. LIGHTLY COAT EXPOSED END OF DOWEL WITH PARAFFIN-BASED LUBRICANT, ASPHALT EMULSION, FORM OIL OR GREASE IMMEDIATELY BEFORE CONCRETE OR USE A PLASTIC OR METAL SLEEVE SPECIFICALLY DESIGNED FOR THE PURPOSE OF PREVENTING A BOND BETWEEN THE DOWEL AND CONCRETE. DOWELS ARE TO BE PARALLEL TO WALL SURFACE AND HORIZONTAL AND SHALL BE SECURED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. CENTER DOWEL IN WALL WHERE ONLY ONE DOWEL IS SCHEDULED.
2. PROVIDE CONTINUOUS VERTICAL GROOVE FORMED IN EACH FACE OF WALL. SEE SCHEDULE FOR DIMENSIONS. FILL GROOVE WITH PERMANENT SEALANT AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. PROVIDE CONTINUOUS WATERSTOP AT BELOW GRADE CONDITIONS AND WHERE SHOWN ON ARCHITECTURAL DRAWINGS.
4. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED CONCRETE BY SPRAYING OR PAINTING EXPOSED SIDE WITH A CURING COMPOUND, BOND BREAKER, OR FORM OIL.
5. SUBMIT PROPOSED WALL JOINT LOCATION FOR APPROVAL PRIOR TO DETAILING REINFORCEMENT. JOINTS SHALL BE SPACED NO CLOSER THAN 5'-0" FROM CORNERS AN PILASTER.
6. THIS DETAIL IS NOT TO BE USED WHERE WALL SPANS HORIZONTALLY TO SUPPORT LATERAL AND/OR VERTICAL LOADS. SEE PLANS FOR LOCATIONS WHERE WALLS ARE SO DESIGNED.

2 VERTICAL CONSTRUCTION JOINT-CONCRETE WALL, EXPOSED OR VISUALLY CRITICAL CONDITION

12" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
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270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED TIMOTHY R. SANTA PROFESSIONAL ENGINEER 4.19.11

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FOUNDATION TYPICAL DETAILS

SHEET NO.
S3.03

PLOT DATE: 4/18/2011 2:01:57 PM
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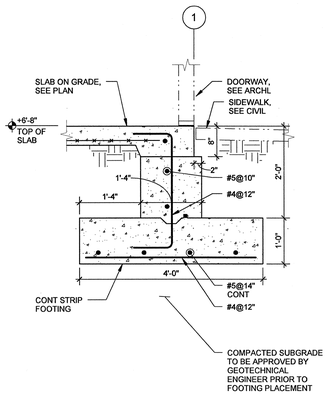
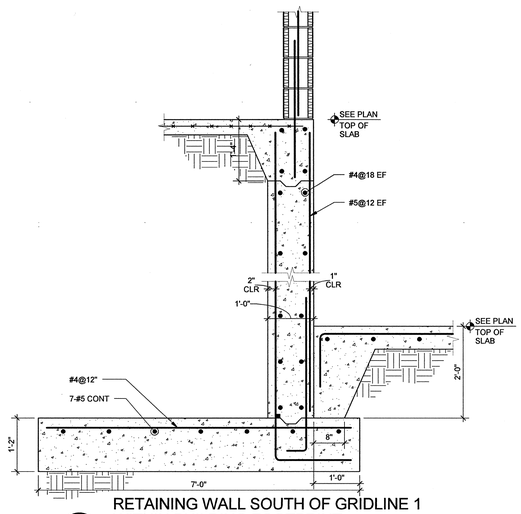


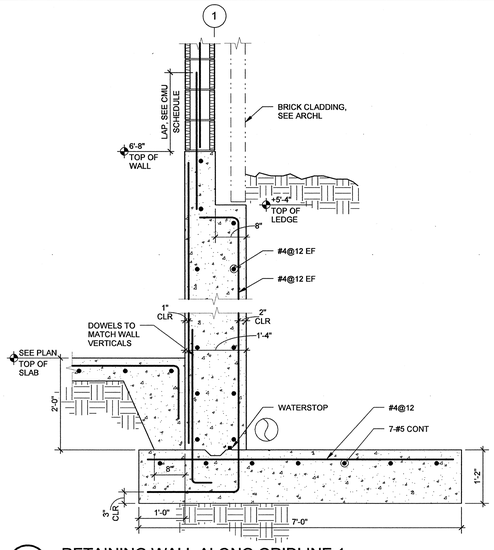
5 STRIP FOOTING ALONG GRIDLINE 1

3/4" = 1'-0"



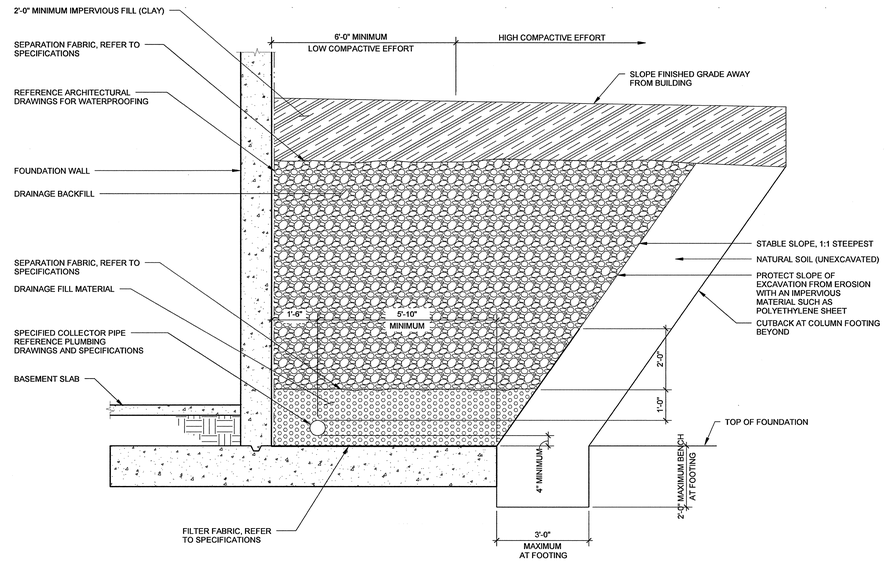
4 RETAINING WALL SOUTH OF GRIDLINE 1 WITHIN BUILDING FOOTPRINT

3/4" = 1'-0"



3 RETAINING WALL ALONG GRIDLINE 1

3/4" = 1'-0"

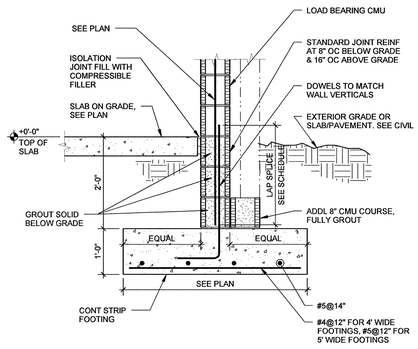


NOTES:

1. REFER PLUMBING DRAWINGS FOR LOCATION OF COLLECTOR PIPES, FLOWLINE ELEVATIONS, CONNECTION DETAILS AND SUMPS.
2. COLLECTOR PIPE SHALL BE SLOTTED WITH 0.10" SLOTS TO PROVIDE OPENING IN PIPE A MINIMUM OF 10% OF THE PIPE SURFACE.
3. SLOPE COLLECTOR PIPE A MINIMUM OF 1/16" PER FOOT.
4. PROVIDE CLEANOUTS TO PERMIT PERIODIC CLEANING AND FLUSHING OF THE COLLECTOR PIPE. REFER TO FOUNDATION DRAINAGE PLAN.
5. REFER TO SPECIFICATIONS FOR BACKFILL LOW AND HIGH COMPACTIVE EFFORT SPECIFICATIONS AND ADDITIONAL INFORMATION.
6. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

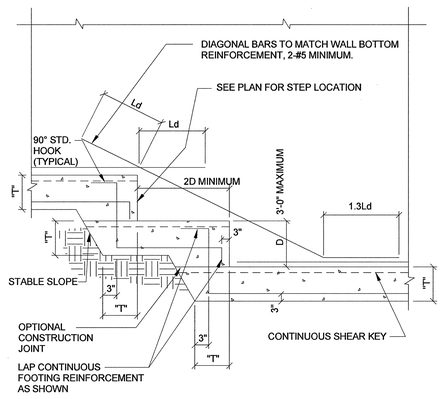
7 TYPICAL FOUNDATION WALL DRAINAGE AND BACKFILL

NO SCALE



9 TYPICAL STRIP FOOTING DETAIL

3/4" = 1'-0"



T = THICKNESS OF CONTINUOUS WALL FOOTING - SEE WALL DETAILS.

8 STEPPED CONCRETE WALL FOOTING

NO SCALE

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. SMITH No. 29462 4.19.11

KEY PLAN

REVISION

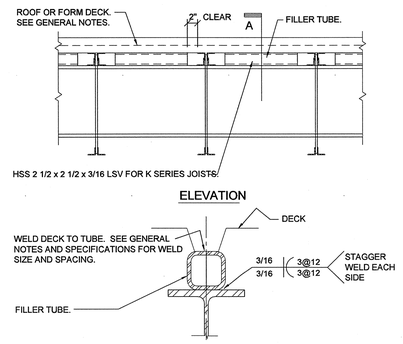
NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
FOUNDATION SECTIONS AND DETAILS

SHEET NO.
S3.11

PLOT DATE: 4/19/2011 2:01:59 PM TEMPLATE VERSION:

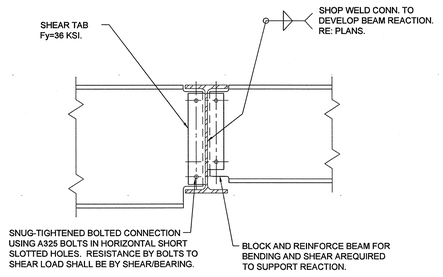


NOTE:
1. REFER TO PLAN OR DETAILS FOR BEAMS REQUIRING FILLER TUBES.

5 TYPICAL OPEN WEB STEEL JOIST - ROOF DECK DIAPHRAGM CONNECTION TO STEEL BEAM AT FLAT ROOFS

NTS

05200-RF-SJ01-12

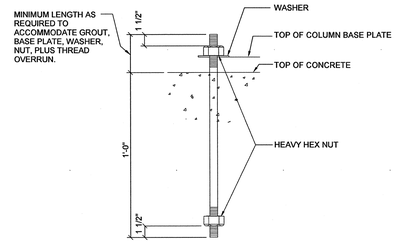


NOTES:
1. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN CRITERIA.
2. PROVIDE PREDESIGNED CONNECTIONS AS SHOWN IN AISC MANUAL WHERE APPLICABLE.

4 TYPICAL BEAM TO BEAM SHEAR TAB CONNECTION

NTS

05120-CH-SHEW-02

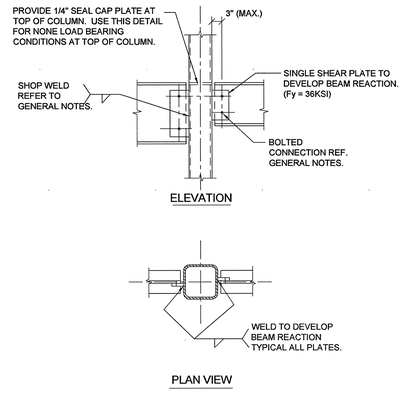


NOTES:
1. SEE 1/S4.01 FOR ANCHOR ROD SIZE.
2. ROD THREADS AT THE EMBEDDED END SHALL BE STRUCK AT TWO PLACES BELOW THE HEAVY HEX NUT.
3. UNLESS NOTED OTHERWISE, ALL RODS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. THE HOLE IN THE WASHER SHALL BE 1/16" LARGER THAN THE ROD DIAMETER.

3 ANCHOR ROD TYPE "A"

NTS

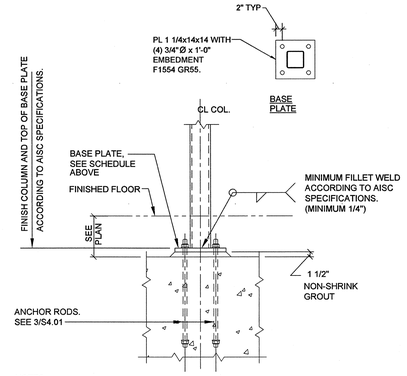
05500-FH-ANRO-01



2 TYPICAL STEEL WIDE FLANGE BEAM CONNECTION TO TUBE COLUMNS

NTS

05120-CH-BMCOL-02A



NOTES:
1. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AISC SPECIFICATIONS.
2. WASHERS SHALL BE INSTALLED OVER OVERSIZED HOLES.
3. CONTRACTOR SHALL PROVIDE 1/8" THICK TEMPLATE FOR ANCHOR ROD INSTALLATION.

1 TYPICAL TUBE COLUMN BASE PLATE CONNECTION

NTS

05120-FH-STLBP-04

NOTES:
1. REFER TO DESIGN PROFESSIONAL FOR OPENINGS LARGER THAN 6'-6".
2. THE OPENINGS IN THE STEEL DECK ARE NOT TO BE CUT AND REMOVED UNTIL THE OPENING IS NEEDED.

7 TYPICAL ROOF OPENING STEEL JOIST CONSTRUCTION (ROOF DECK)

NO SCALE

05300-RF-SJ05-06

NOTE:
1. REFER TO DESIGN PROFESSIONAL FOR OPENINGS LARGER THAN 6'-6".
2. THE OPENINGS IN THE METAL DECK ARE NOT TO BE CUT AND REMOVED UNTIL THE HOLE IS NEEDED.
3. SEE SPECIFICATIONS FOR OPENINGS WHEN THE LONGEST DIMENSION IS 10" OR LESS.
4. SEE ARCH'L & MEP PLANS FOR ROOF PENETRATION LOCATIONS.

6 ROOF OPENING CONSTRUCTION (ROOF DECK)

1/2" = 1'-0"

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
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USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — Timothy R. Smith — No. 29483 — PROFESSIONAL ENGINEER — 4.19.11

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12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
STEEL FRAMING TYPICAL DETAILS

SHEET NO.
S4.01

PLOT DATE: 4/18/2011 2:01:51 PM
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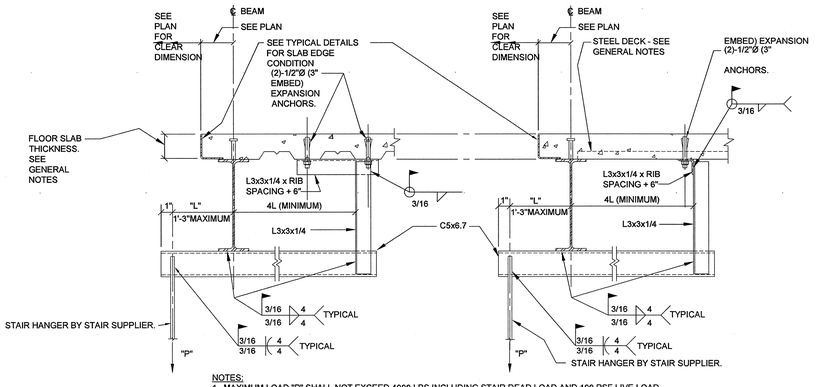
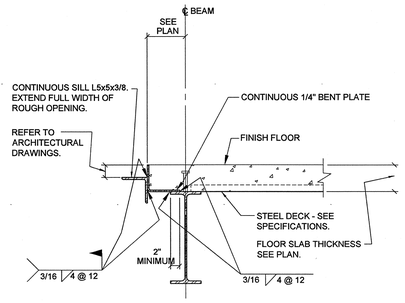


NOTES:
1. MAXIMUM LOAD "P" SHALL NOT EXCEED 4000 LBS INCLUDING STAIR DEAD LOAD AND 100 PSF LIVE LOAD.
2. IF LOAD "P" EXCEEDS 4000 LBS., NOTIFY DESIGN PROFESSIONAL FOR INSTRUCTIONS.

5 STEEL STAIR HANGER SUPPORT CONNECTION COMPOSITE STEEL DECK

NTS

05120-CN-CMPSM-1

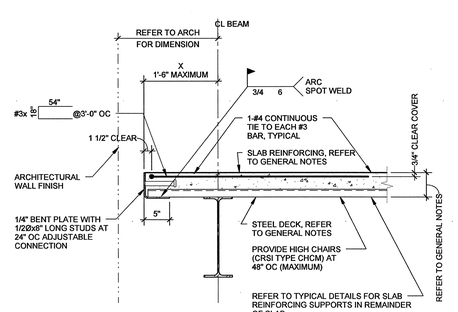


NOTE:
1. PROVIDE CONTINUOUS ELEVATOR SILL ANGLE AT THRESHOLD OF ELEVATOR OPENING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

3 ELEVATOR SILL, COMPOSITE STEEL DECK DECK FLUTES PERPENDICULAR TO BEAM

NTS

05120-FL-CMPSM-TX

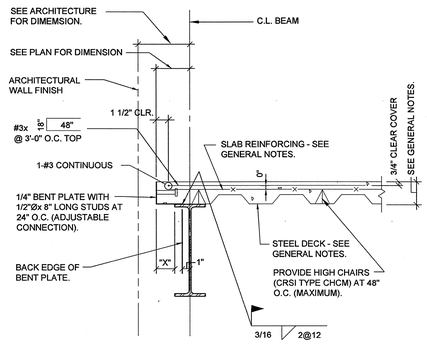


NOTE:
THIS DETAIL DOES NOT APPLY WHEN DISTANCE "X" EXCEEDS 1'-6".

2 DECK SPAN TRANSVERSE TO BEAM

NTS

05300-RF-MTLDK-05

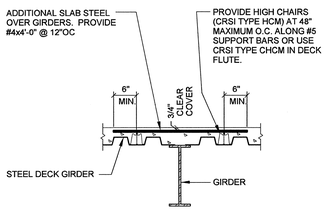


NOTE:
1. THIS DETAIL DOES NOT APPLY WHEN DISTANCE "X" EXCEEDS 0'-5".

1 COMPOSITE STEEL DECK WITH BENT PLATE CLOSURE DECK SPAN PARALLEL TO BEAM

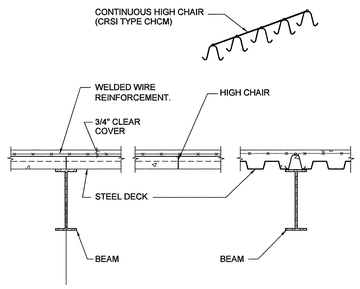
NTS

05300-FL-MTLDK-04

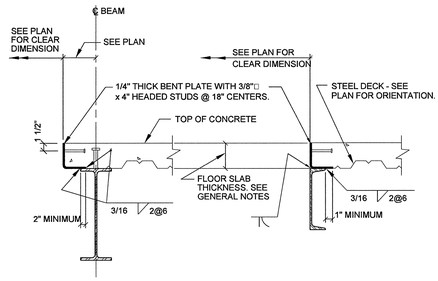


INTERIOR GIRDER

NOTE:
1. PROVIDE ADDITIONAL SLAB REINFORCEMENT OVER GIRDERS AS SHOWN IN ADDITION TO TYPICAL SLAB TEMPERATURE REINFORCEMENT. SEE SPECIFICATIONS.

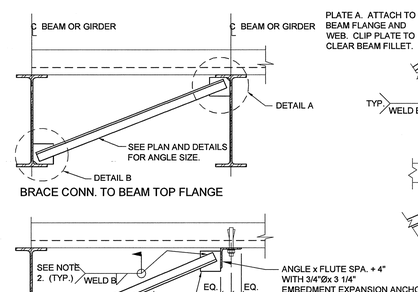


NOTES:
1. SEE SPECIFICATIONS FOR STEEL DECK SLAB MINIMUM REINFORCEMENT.
2. HIGH CHAIRS SHALL BE MANUFACTURED FOR SUPPORT ON METAL DECK (CRSI TYPE CHCM) AND PLACED OVER EACH GIRDER AND BETWEEN AT A MAXIMUM SPACING OF 48" ON CENTER.
3. THIS DETAIL APPLIES IN ALL COMPOSITE SLAB LOCATIONS WHERE THE REINFORCEMENT IS WELDED WIRE REINFORCING.

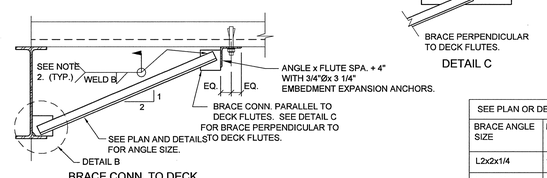


BEAM CHANNEL

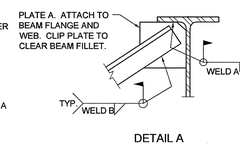
NOTES:
1. SEE STAIR DRAWINGS FOR CONNECTION OF STAIR STRINGER TO BEAM OR CHANNEL.

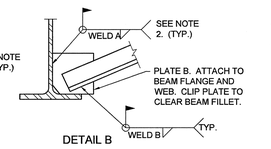


BRACE CONN. TO BEAM TOP FLANGE



BRACE CONN. TO DECK





SEE PLAN OR DETAILS FOR BRACE ANGLE SIZE. (L3x3x1/4 U.N.O.)						
BRACE ANGLE SIZE	PLATE A	PLATE B	WELD A	WELD B	CONNECTION TO COMPOSITE SLAB	
					ANGLE SIZE	NUMBER OF ANCHORS
L2x2x1/4	1/4x4x4	1/4x4x4	3/16	3/16	L3x3x1/4	2
L3x3x1/4	1/4x4x4	1/4x4x4	3/16	3/16	L4x4x1/4	2
L4x4x1/4	1/4x5x5	1/4x5x5	3/16	3/16	NOT APPLICABLE	
L5x5x5/16	3/8x6x6	3/8x6x6	1/4	1/4	NOT APPLICABLE	

NOTES:
1. SEE PLAN OR DETAILS FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.
3. IF NOT SHOWN ON PLAN OR DETAILS, BRACE SIZE SHALL BE L3X3X1/4.
4. SEE GENERAL NOTES FOR DECK CONSTRUCTION.
5. SHOP WELD OPTIONAL.

7 BEAM BOTTOM FLANGE BRACE (COMPOSITE CONSTRUCTION)

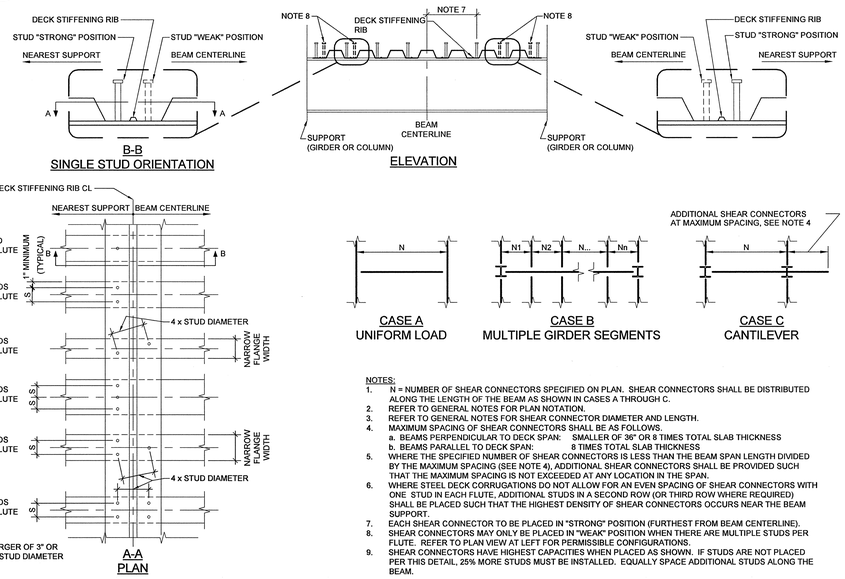
NTS

05130-CN-EMSRA-1

10 TYPICAL REINFORCEMENT OVER GIRDER

NTS

05300-FL-RSPT-6



9 TYPICAL MINIMUM (TEMPERATURE) WELDED WIRE REINFORCING SUPPORT, COMPOSITESTEEL DECK SLABS

NTS

05300-FL-RSPT-6

NOTES:
1. N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C.
2. REFER TO GENERAL NOTES FOR PLAN NOTATION.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS.
   a. BEAMS PERPENDICULAR TO DECK SPAN: SMALLER OF 36" OR 8 TIMES TOTAL SLAB THICKNESS
   b. BEAMS PARALLEL TO DECK SPAN: 8 TIMES TOTAL SLAB THICKNESS
5. WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THAN THE BEAM SPAN LENGTH DIVIDED BY THE MAXIMUM SPACING (SEE NOTE 4), ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN.
6. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
7. EACH SHEAR CONNECTOR TO BE PLACED IN "STRONG" POSITION (FURTHEST FROM BEAM CENTERLINE).
8. SHEAR CONNECTORS MAY ONLY BE PLACED IN "WEAK" POSITION WHEN THERE ARE MULTIPLE STUDS PER FLUTE. REFER TO PLAN VIEW AT LEFT FOR PERMISSIBLE CONFIGURATIONS.
9. SHEAR CONNECTORS HAVE HIGHEST CAPACITIES WHEN PLACED AS SHOWN. IF STUDS ARE NOT PLACED PER THIS DETAIL, 25% MORE STUDS MUST BE INSTALLED. EQUALLY SPACE ADDITIONAL STUDS ALONG THE BEAM.

15 TYPICAL SHEAR CONNECTOR PLACEMENT DIAGRAMS - STUDS IN "STRONG" POSITION

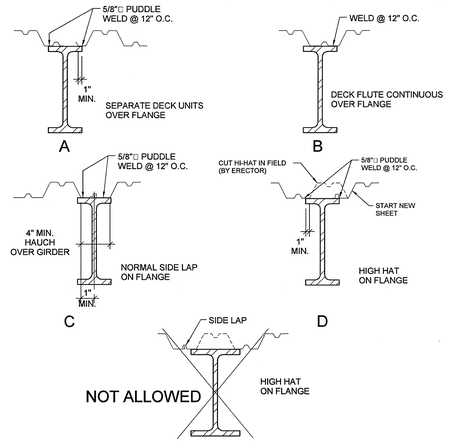
NTS

05050-FL-SHCON-01

8 STEEL STAIR FLOOR LANDING - COMPOSITE STEEL DECK

NTS

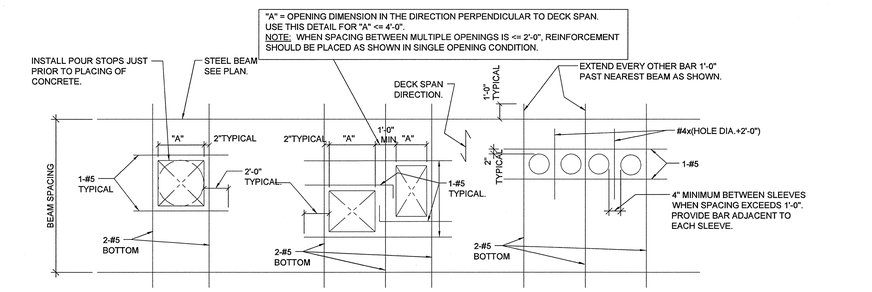
05120-FL-CMPSM-03



13 TYPICAL COMPOSITE STEEL DECK GIRDER DETAILS

NTS

05300-FL-MTLDK-13



NOTES:
1. COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. MAXIMUM DIMENSION "A" SHALL BE 4'-0". REFER TO PLAN OR DETAIL ON DRAWINGS FOR FRAMING OF OPENINGS GREATER THAN 4'-0".
3. WWF SLAB REINFORCEMENT SHALL BE CUT AROUND SLAB OPENING. WWF SHALL EXTEND TO WITHIN 2" OF OPENING ON ALL SIDES.
4. OPENINGS OR LENGTH OF BUNDLE OF OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
5. FIELD CUT OPENINGS IN DECK AFTER CONCRETE SLAB HAS BEEN POURED AND HAS ATTAINED MINIMUM 75% OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH. DO NOT FIELD CUT METAL DECK UNTIL IMMEDIATELY BEFORE OPENING IS NEEDED.
6. REINFORCEMENT PERPENDICULAR TO DECK SPAN SHALL BE PLACED ON TOP OF DECK FLUTES.
7. REINFORCEMENT PARALLEL TO DECK SPAN SHALL BE PLACED IN THE LOWER FLUTE AND SHALL BE CHAIR TO PROVED 3/4" COVER.
8. THIS DETAIL SHOWS TYPICAL CONDITIONS. VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES.
9. PROVIDE REINFORCEMENT AS SHOWN FOR SQUARE, RECTANGULAR OR ROUND OPENINGS.

12 OPENING IN COMPOSITE STEEL DECK SLAB, FLOOR OR ROOF

NTS

05120-FL-CMPSM-12

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA. 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA LICENSED PROFESSIONAL ENGINEER TIMOTHY R. STANLEY

KEY PLAN

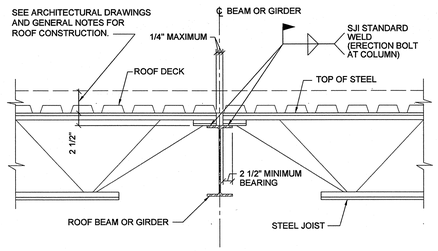
REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
STEEL FRAMING TYPICAL DETAILS

SHEET NO.
S4.02

PLOT DATE: 4/18/2011 2:01:49 PM TEMPLATE VERSION:



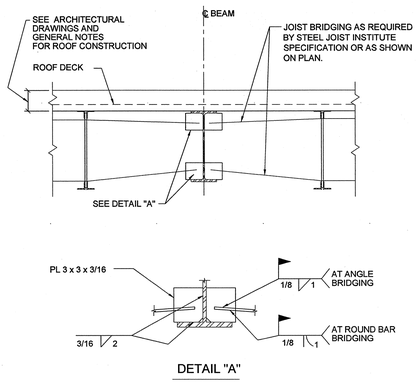
NOTES:

1. ROOF CONSTRUCTION NOT SHOWN FOR CLARITY.
2. WHEN WIDTH OF BEAM FLANGE IS LESS THAN 5", OFFSET THE LOCATION OF JOISTS ON ONE SIDE OF BEAM.

5 TYPICAL OPEN WEB STEEL JOIST AT INTERIOR STEEL BEAM, ROOF (ROOF DECK)

NTS

05300-RF-SJIST-14



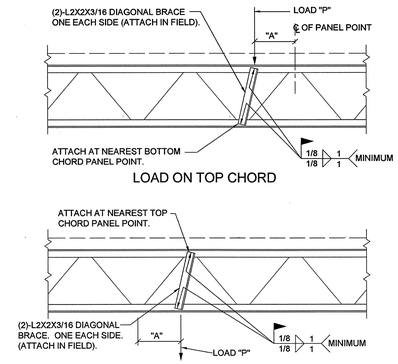
NOTE:

1. ROOF CONSTRUCTION NOT SHOWN FOR CLARITY.

4 TYPICAL OPEN WEB STEEL JOIST AT INTERIOR TIE BEAM, ROOF (ROOF DECK)

NTS

05300-PL-SJIST-02A



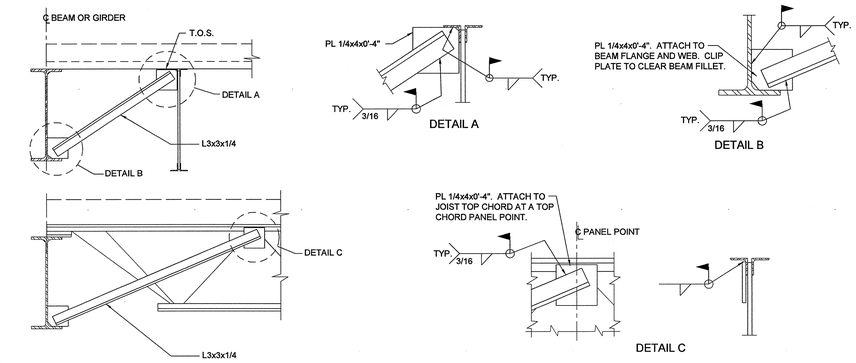
NOTES:

1. DIAGONAL BRACE IS NOT REQUIRED FOR "A" LESS THAN THREE INCHES
2. PROVIDE DIAGONAL BRACE AT LOCATION OF CONCENTRATED LOADS SUCH AS PARTITIONS, HEAVY PIPES, MECHANICAL UNITS, HEAVY LIGHTS AND ANY OTHER CONCENTRATED LOADS AS DIRECTED BY ENGINEER WHERE P EXCEEDS 60 LBS.
3. P = CONCENTRATED LOAD, IN NO CASE SHALL ANY CONCENTRATED LOAD EXCEED 200#.

3 TYPICAL STIFFENING OF STEEL JOIST FOR CONCENTRATED LOADS

NTS

05300-RF-SJIST-11

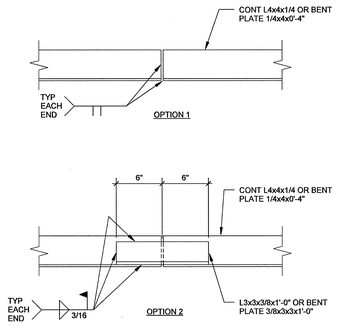


NOTES:

1. SEE PLAN AND DETAILS FOR LOCATIONS OF ANGLE BRACES.
2. FIELD WELDING OF 1/4" CONNECTION PLATES SHALL BE AT FABRICATOR'S OPTION.
3. ALL BRACING SHALL BE IN PLACE AND WELDED BEFORE DECK INSTALLATION.
4. BRACE SIZES SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED ON PLAN.
5. SEE GENERAL NOTES FOR DECK CONSTRUCTION.

2 TYPICAL BEAM BOTTOM FLANGE BRACE (STEEL JOIST CONSTRUCTION)

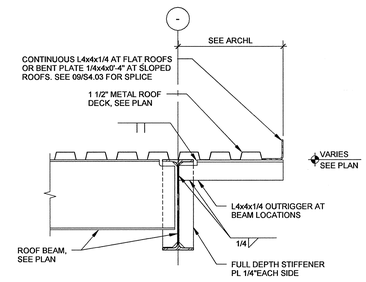
NTS



NOTE: USE AT ALL L4x4x1/4 OR BENT PLATE 1/4x4x0'-4" ROOF PERIMETER ANGLES.

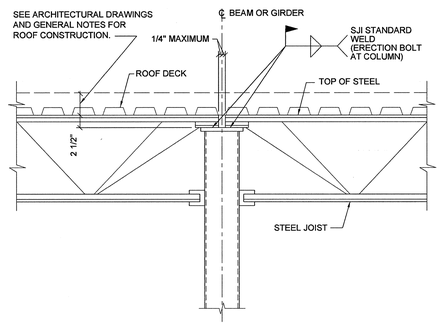
9 TYPICAL ROOF DECK EDGE ANGLE SPLICE

1 1/2" = 1'-0"



8 ROOF DECK CANOPY EDGE DETAIL

1" = 1'-0"

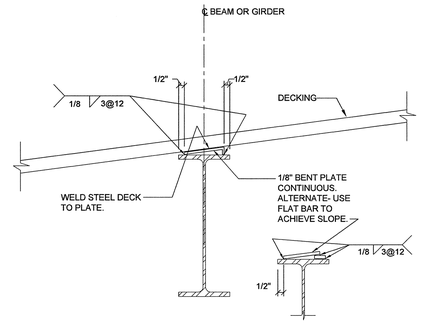


NOTES:

1. ROOF CONSTRUCTION NOT SHOWN FOR CLARITY.

7 TYPICAL OPEN WEB STEEL JOIST AT COLUMN (ROOF DECK)

NTS



6 TYPICAL SLOPING STEEL DECK SUPPORT ON ROOF BEAM WITH VERTICAL WEB

NTS

03300-RF-MTLDK-01

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA. 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — TIMOTHY R. SCHATZ — No. 28462 — PROFESSIONAL ENGINEER — 4.19.11

KEY PLAN

REVISION

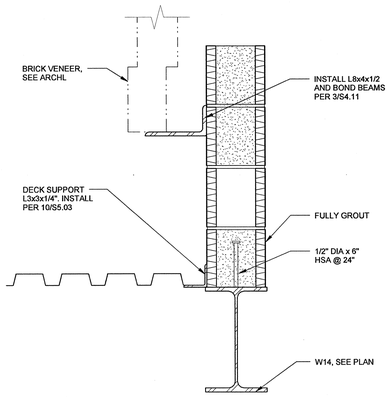
NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

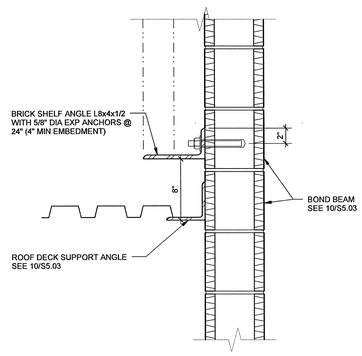
SHEET TITLE
STEEL FRAMING TYPICAL DETAILS

SHEET NO.
S4.03

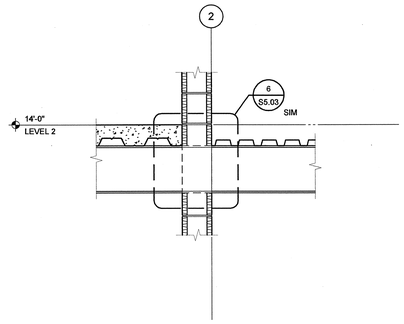
PLOT DATE: 4/18/2011 2:37:48 PM TEMPLATE VERSION:



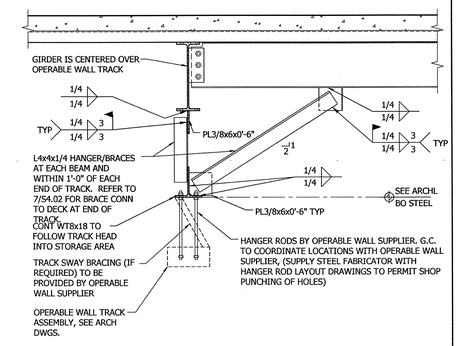
4 CMU AND BRICK SUPPORT DETAIL
1 1/2" = 1'-0"



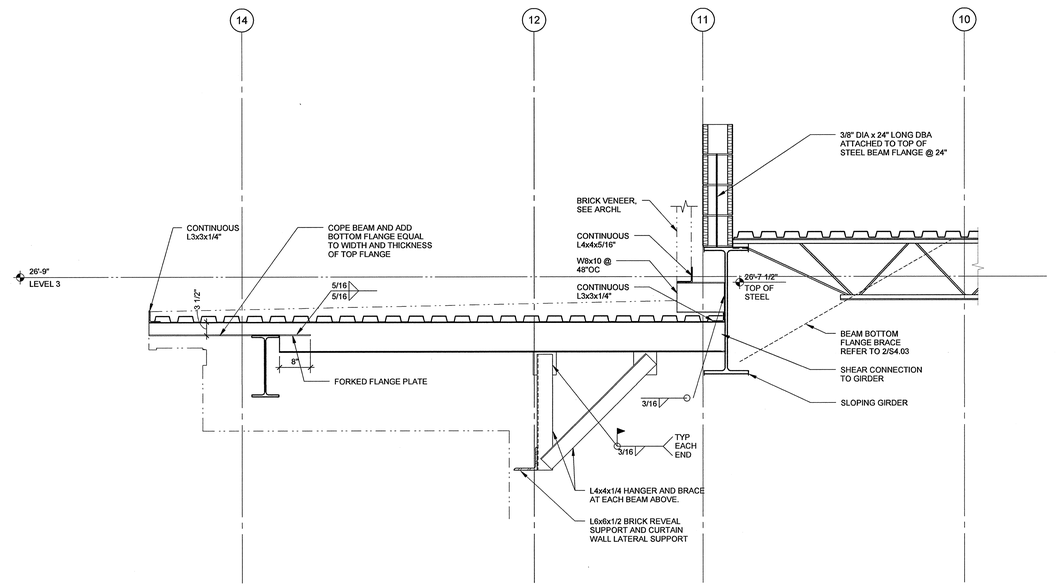
3 BRICK SUPPORT AT LOW ROOF
1 1/2" = 1'-0"



2 BEAM BLOCKOUT AT NORTH CANOPY
3/4" = 1'-0"



1 OPERABLE WALL SUPPORT AT FLOOR BEAM
3/4" = 1'-0"



13 SECTION AT SOUTH CANOPY
3/4" = 1'-0"

PLOT DATE: 4/19/2011 2:16:50 PM TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
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89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
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270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. SAMPLE 4.19.11

KEY PLAN

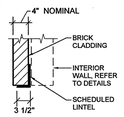
REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
STEEL FRAMING SECTION AND DETAILS
SHEET NO.
S4.11

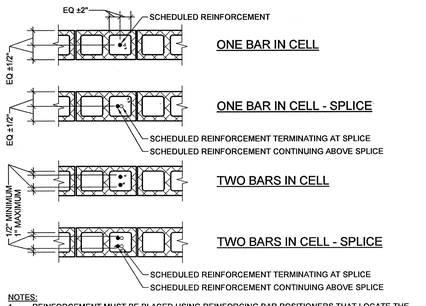
STEEL LOOSE LINTELS SUPPORTING BRICK ONLY	
CLEAR OPENING	MINIMUM ANGLE SIZE
≤ 6'-0"	L3 1/2x3 1/2x5/16
6'-8"	L4x3 1/2x5/16
7'-4"	L5x3 1/2x5/16
8'-0"	L6x3 1/2x5/16



TYPICAL SECTION

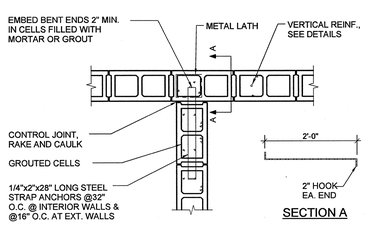
NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 6".
3. WHERE MINIMUM BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO ADJACENT STRUCTURAL MEMBERS OR PROVIDE SEPARATE VERTICAL SUPPORTS. WHERE NOT DETAILED SUBMIT DETAILS FOR ENGINEER APPROVAL.
4. ALL LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. FOR MASONRY OPENINGS GREATER THAN 8'-0", REFER TO DETAILS ON DRAWINGS OR REFER TO ENGINEER.
6. BRICK HEIGHTS OVER OPENINGS GREATER THAN ONE HALF THE LINTEL SPAN SHALL BE SHORED UNTIL MORTAR HAS SET AND CURED.
7. USE FOR RUNNING BOND ONLY.

5 TYPICAL STEEL LOOSE LINTELS SUPPORTING BRICK ONLY
NO SCALE



NOTES:
1. REINFORCEMENT MUST BE PLACED USING REINFORCING BAR POSITIONERS THAT LOCATE THE BAR AS SPECIFIED AND PREVENT MOVEMENT OF THE BAR DURING CONSTRUCTION.
2. SPLICED REINFORCEMENT MUST BE A CONTACT LAP SPLICE WITH SPLICED BARS ALIGNED PARALLEL TO THE WALL AS SHOWN.
3. THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF REINFORCEMENT THAT IS REQUIRED TO BE PLACED OUTSIDE OF THE TOLERANCES OF THIS DETAIL SUCH AS TO AVOID INTERFERENCE WITH OTHER REINFORCEMENT, CONDUITS OR EMBEDDED ITEMS.

4 TYPICAL CMU VERTICAL REINFORCEMENT BAR PLACEMENT
NO SCALE



SECTION A

3 CMU WALL INTERSECTION DETAIL
NO SCALE

CMU WALL, PILASTER AND COLUMN DEVELOPMENT AND LAP SPLICE LENGTHS		
BAR SIZE	8" CMU	
	1 BAR/CELL (INCHES)	2 BARS/CELL (INCHES)
#3	16	17
#4	21	29
#5	27	45
#6	51	54
#7	63	63
#8	72	72
#9	NP	NP
#10	NP	NP
#11	NP	NP

NP = NOT PERMITTED

NOTES:
1. THE LAP SPLICE LENGTH TABLE SHALL BE USED FOR ALL REINFORCED CMU WALLS, PILASTERS AND COLUMNS UNLESS NOTED OTHERWISE IN DETAILS.
2. FOR MEMBERS WHERE ADJACENT BARS ARE SEPARATED BY 3 INCHES OR LESS, PROVIDE THE SPECIFIED LAP STAGGERED BY AT LEAST THE LAP LENGTH SPECIFIED IN THE TABLE.
3. INCREASE TABULATED VALUES BY 50% FOR EPOXY COATED REINFORCEMENT.
4. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR CMU F'M.
5. WITH APPROVAL BY THE ENGINEER, WELDED SPLICES AND MECHANICAL SPLICES DEVELOPING AT LEAST 125% OF THE YIELD STRENGTH, FY, OF THE BAR IN TENSION OR COMPRESSION, AS REQUIRED, MAY BE SUBSTITUTED IN SOME LOCATIONS FOR THE VALUES TABULATED ABOVE. REFER TO IBC 2108.3 FOR ADDITIONAL REQUIREMENTS.

2 TYPICAL CMU DEVELOPMENT & SPLICE LENGTHS
NO SCALE

1. BOND BEAMS:

DO NOT LAP VERTICAL REINFORCEMENT AT INTERSECTING BOND BEAMS. REINFORCEMENT SHALL BE CONTINUOUS THROUGH INTERSECTING BOND BEAM.

AT MINIMUM, ONE-COURSE HORIZONTAL BOND BEAMS SHALL BE PROVIDED AT EVERY FLOOR LEVEL, ROOF LEVEL AND TOP OF PARAPET.

TERMINATE ALL HORIZONTAL REINFORCEMENT OF DISCONTINUOUS ENDS OF BOND BEAMS INTO VERTICAL GROUTED CELLS WITH A STANDARD HOOK. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND CORNERS.

TERMINATE ALL VERTICAL REINFORCEMENT INTO BOND BEAM AT ROOF LEVEL WITH A STANDARD HOOK. TERMINATE AT HIGHEST BOND BEAM IF MASONRY DOES NOT EXTEND TO ROOF OR GROUTED CELL IS NOT CONTINUOUS TO ROOF. THE HOOK SHALL EXTEND TO THE UPPERMOST HORIZONTAL REINFORCEMENT OF THE BOND BEAM AND SHALL HAVE MINIMUM EMBEDMENT OF 6".

PROVIDE SOLID GROUTED U-BLOCKS OR KNOCK-OUT BLOCK BOND BEAMS UNDER ALL WINDOW SILLS. AT INTERIOR SILLS, PROVIDE ONE-COURSE BOND BEAM WITH 1-#5 CONTINUOUS.

2. BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL UNITS WITH REINFORCING BARS OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE. TEMPORARILY SHORE ALL LINTELS AS REQUIRED TO PREVENT DEFLECTION THAT MAY OCCUR BEFORE GROUT HAS CURED.

3. PROVIDE HORIZONTAL REINFORCEMENT IN BE JOINTS EVERY OTHER COURSE (MAXIMUM 16" SPACING). REINFORCEMENT SHALL BE LADDER TYPE WITH SIDE RAILS FABRICATED FROM HIGH-STRENGTH, COLD-DRAWN WIRE CONFORMING TO ASTM A82. TRUSSES SHALL BE GALVANIZED AFTER FABRICATION.

4. MASONRY WALLS SHALL BE BRACED EITHER BY INTERSECTING WALLS OR BY ANCHORS TO THE STRUCTURE ABOVE. REFER TO DETAILS FOR BRACING REQUIREMENTS FOR INTERIOR MASONRY WHERE THE INTEGRAL INTERSECTING SUPPORT WALLS AT EACH END OF THE WALL EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS FOR INTERIOR WALLS AND 18 TIMES THE NOMINAL WALL THICKNESS FOR EXTERIOR WALLS (IF ANY).

5. GROUT LIFT LIMITS:

GROUT POURS SHALL NOT EXCEED 5 FEET PER LIFT, UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF EACH 5 FOOT LIFT.

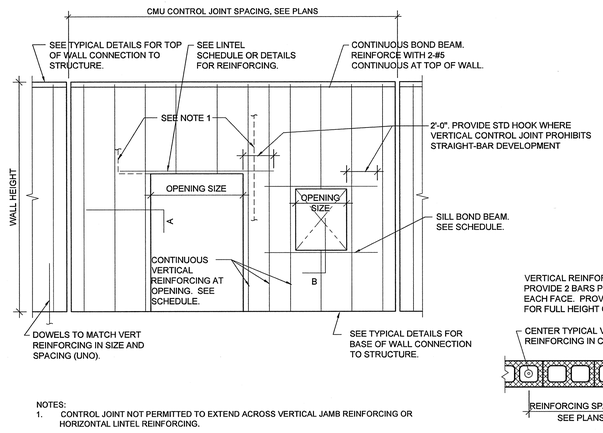
MECHANICALLY VIBRATE ALL LIFTS IN EXCESS OF 1 FOOT.

GROUT LIFTS SHALL NOT BE STOPPED WITHIN 1 1/2" OF BED JOINT.

6. GROUT POURS SHALL NOT EXCEED 24 FEET WHEN GROUTING THE CELLS OF HOLLOW MASONRY. WHEN GROUTING THE SPACE BETWEEN MULTI-WYTHE WALLS, THE TOTAL POUR SHALL NOT EXCEED 24 FEET FOR 3" SPACES, 13 FEET FOR 2 1/2" SPACES, AND 5 FEET FOR 2" SPACES. ALL GROUT MUST BE PLACED WITHIN 1 1/2 HOURS FROM INTRODUCING WATER INTO THE MIXTURE.

6. ALL WALLS LOCATED ADJACENT TO EARTH FILL MUST BE FULLY GROUTED DIRECTLY ADJACENT TO, AND A LEAST 8" ABOVE, ALL SOIL IN CONTACT WITH THE WALL.

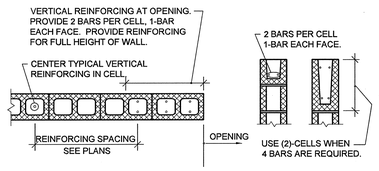
1 TYPICAL CMU REINFORCEMENT & PLACEMENT NOTES
NO SCALE



NOTES:
1. CONTROL JOINT NOT PERMITTED TO EXTEND ACROSS VERTICAL JAMB REINFORCING OR HORIZONTAL LINTEL REINFORCING.

JAMB REINFORCING AT OPENING (EACH SIDE)			
OPENING SIZE			
<8'-0"	10'-0"	12'-0"	14'-0"
2-#4	2-#4	2-#4	2-#5
2-#4	2-#5	2-#5	2-#5
2-#5	2-#5	2-#6	2-#6
2-#6	2-#7	2-#7	4-#5
2-#7	2-#8	4-#5	4-#7
2-#8	4-#5	6-#5	6-#7
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

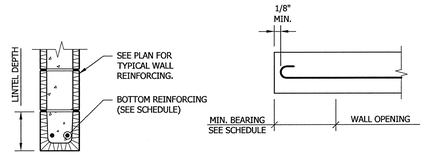
SILL REINFORCING				
SILL OPENING	<8'-0"	10'-0"	12'-0"	14'-0"
REINFORCING	2-#4	2-#5	2-#5	4-#5



SECTION A SECTION B

8 OPENINGS AT MASONRY WALLS - INTERIOR AND EXTERIOR
NO SCALE

LINTEL REINFORCEMENT			
WALL OPENING	LINTEL DEPTH	REINFORCING	MIN. BEARING
UP TO 4' - 0"	8"	2 # 4 BOTTOM	0' - 8 "
4' - 0" TO 6' - 0"	16"	2 # 4 BOTTOM	0' - 8 "
6' - 0" TO 8' - 0"	24"	2 # 4 BOTTOM	1' - 4 "
13' - 0" TO 13' - 6"	40"	2 # 4 BOTTOM	2' - 0 "

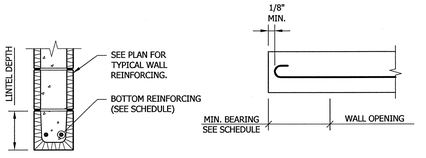


SECTION ELEVATION

13 LOAD-BEARING CMU LINTEL SCHEDULE - EXTERIOR
12" = 1'-0"

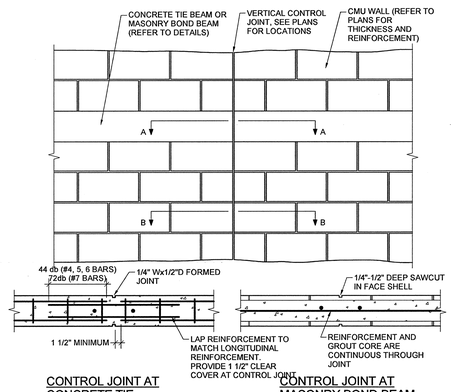
LINTEL REINFORCEMENT			
WALL OPENING	LINTEL DEPTH	REINFORCING	MIN. BEARING
UP TO 4' - 0"	8"	2 # 4 BOTTOM	0' - 8 "
4' - 0" TO 6' - 0"	8"	2 # 5 BOTTOM	0' - 8 "
6' - 0" TO 8' - 0"	16"	2 # 5 BOTTOM	0' - 8 "
8' - 0" TO 10' - 0"	16"	2 # 6 BOTTOM	1' - 4 "

OVER 10'-0" CONSULT ENGINEER



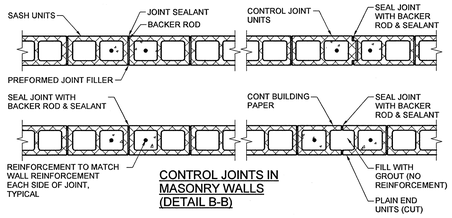
SECTION ELEVATION

12 NON-LOAD-BEARING CMU LINTEL SCHEDULE - INTERIOR
12" = 1'-0"



CONTROL JOINT AT CONCRETE TIE BEAM (DETAIL A-A)

CONTROL JOINT AT MASONRY BOND BEAM (DETAIL A-A)



CONTROL JOINTS IN MASONRY WALLS (DETAIL B-B)

NOTES:
1. COORDINATE WATERPROOFING AND REQUIRED FIRE RATING OF CONTROL JOINTS WITH ARCHITECT.
2. STOP HORIZONTAL JOINT REINFORCEMENT 2" EACH SIDE OF JOINT. SEE DETAILS A-A FOR HORIZONTAL REINFORCEMENT AT TIE BEAMS AND BOND BEAMS.
3. USE HALF BLOCKS AT ALTERNATE COURSES SO JOINTS ARE CONSISTENT THROUGH WALLS.
4. FOUR OPTIONS ARE SHOWN FOR DETAIL B-B. ALTERNATE USED IS AT CONTRACTOR'S OPTION BUT SUBJECT TO APPROVAL BY ARCHITECT.
5. PROVIDE REINFORCED VERTICAL CELL EACH SIDE OF JOINT AS SHOWN. REINFORCEMENT TO MATCH OTHER WALL REINFORCEMENT.

11 TYPICAL VERTICAL CONTROL JOINTS IN MASONRY WALLS
NO SCALE

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — TIMOTHY R. WHITE — 24766 — REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000

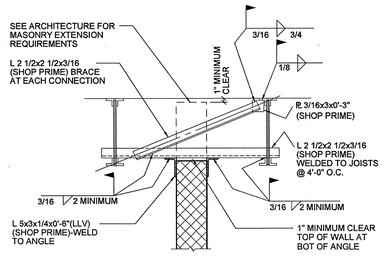
DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
MASONRY DETAILS

SHEET NO.
S5.01

PLOT DATE: 4/18/2011 2:01:42 PM TEMPLATE VERSION:

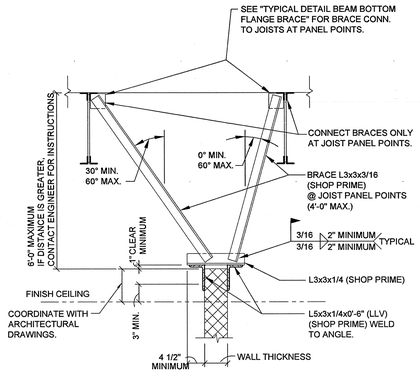


NOTE:
1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

5 INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION PARALLEL TO BAR JOISTS

NO SCALE

04200-CN-NCMU-11



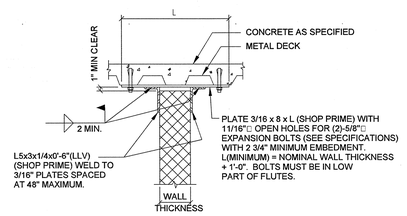
NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

4 INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION PARALLEL TO STEEL JOISTS (LOW WALL)

NO SCALE

04200-CN-NCMU-18

NOTE:
1. THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.



3 TYPICAL INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION TO METAL DECK CMU WALL REINFORCEMENT

NO SCALE

04200-CN-NCMU-12

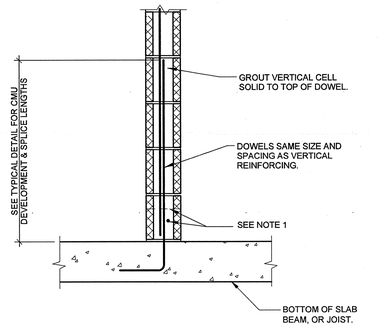
INTERIOR NON-LOADBEARING CMU WALL REINFORCEMENT				
CLEAR WALL HEIGHT	6" CMU	8" CMU	10" CMU	12" CMU
H ≤ 6'	U.R.	U.R.	U.R.	U.R.
6' < H ≤8'	#4@48"	U.R.	U.R.	U.R.
8' < H ≤10'	#4@48"	#4@48"	U.R.	U.R.
10' < H ≤12'	#5@48"	#4@48"	#4@48"	U.R.
12' < H ≤ 14'	#5@40"	#5@40"	#4@48"	#4@40"
14' < H ≤ 16'	#6@40"	#5@40"	#4@40"	#4@40"
16' < H ≤ 18'	#6@32"	#5@32"	#6@48"	#5@40"
18' < H ≤20'	N.A.	#6@32"	#5@48"	#5@40"
20' < H ≤22'	N.A.	#6@32"	#6@40"	#6@40"
22' < H ≤24'	N.A.	#6@24"	#6@32"	#6@40"
24' < H ≤26'	N.A.	N.A.	#6@24"	#7@40"
26' < H ≤28'	N.A.	N.A.	#6@24"	#7@40"
28' < H ≤30'	N.A.	N.A.	#7@24"	#7@32"
30' < H ≤32'	N.A.	N.A.	#4@8"	#7@32"
32' < H ≤34'	N.A.	N.A.	N.A.	#7@24"
34' < H ≤36'	N.A.	N.A.	N.A.	#6@16"
36' < H ≤38'	N.A.	N.A.	N.A.	N.A.
38' < H 40'	N.A.	N.A.	N.A.	N.A.

NOTES:
DEFINITIONS: "H" CLEAR WALL HEIGHT, FEET, BETWEEN CONNECTIONS TO STRUCTURE.
"U.R." UNREINFORCED WALL (NO VERTICAL REINFORCEMENT IS REQUIRED, DETAILED ON DRAWINGS AT OPENINGS, ETC.).
EXCEPT AS
"N.A." NOT APPLICABLE, THICKER WALL REQUIRED FOR SPAN.
1. SPECIFIED REINFORCING STEEL SHALL BE PLACED IN CENTER OF WALL. (Fy=60 ksi)
2. SEE GENERAL NOTES AND SPECIFICATIONS FOR HORIZONTAL REINFORCING REQUIREMENTS.
3. THIS TABLE SHALL ONLY BE USED FOR VERTICALLY SPANNING C.M.U. WALLS.
4. SEE TYPICAL DETAILS FOR BRACING REQUIREMENTS AT THE TOP/ENDS OF THE WALL AND DOWELS TO THE STRUCTURE. REINFORCING STEEL SHALL BE CENTERED IN THE C.M.U. WALL BY USING BAR POSITIONERS AT 8'-0" O.C. VERTICALLY.
5. SPLICING OF VERTICAL STEEL: SEE TYPICAL DETAIL FOR REQUIRED LAP SPLICE LENGTHS.
6. FOR USE WITH PORTLAND CEMENT/LIME MORTAR.

2 TYPICAL INTERIOR NON-LOAD BEARING CMU WALL REINFORCEMENT SCHEDULE

NO SCALE

04200-WL-GYCMU-01

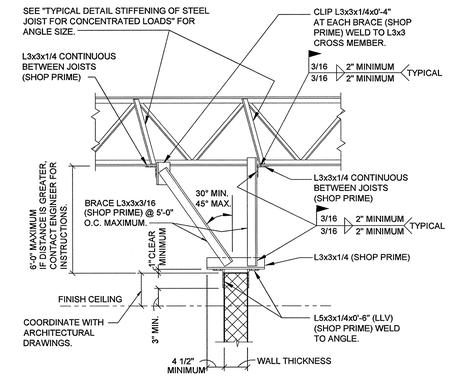


NOTES:
1. FOR WALLS WHICH REQUIRE CONCRETE CURB AT BASE, PROVIDE VERTICAL REINFORCEMENT AS SHOWN. PROVIDE (1)-#4 CONTINUOUS HORIZONTAL IN CONCRETE CURB. LENGTH OF DOWEL INTO CMU SHALL BE AT LEAST AMOUNT SHOWN ABOVE.
2. DOWELS SHALL BE PROVIDED FOR ALL INTERIOR AND EXTERIOR WALLS WHETHER THE WALL HAS VERTICAL REINFORCING OR NOT. IF VERTICAL REINFORCING IS NOT PROVIDED, PROVIDE #4 DOWELS AT 32" OC.

1 NON-LOAD BEARING CMU WALL DOWEL REQUIREMENTS

NO SCALE

04200-CN-NCMU-21



NOTE:
THIS DETAIL IS TO BE USED ONLY IF INTERSECTING SUPPORT WALLS EXCEED A SPACING OF 36 TIMES THE NOMINAL WALL THICKNESS.

6 INTERIOR NON-LOAD BEARING CMU WALL TOP CONNECTION PERPENDICULAR TO STEEL JOISTS (LOW WALL)

NO SCALE

04200-CN-NCMU-17

PLOT DATE: 4/19/2011 2:31:39 PM
TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

GEORGIA — No. 29462 — PROFESSIONAL ENGINEER — TIMOTHY R. SMITH — 4.19.11

KEY PLAN

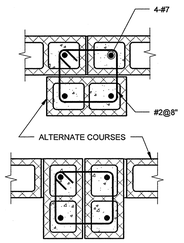
REVISION

NO.	DESCRIPTION	DATE

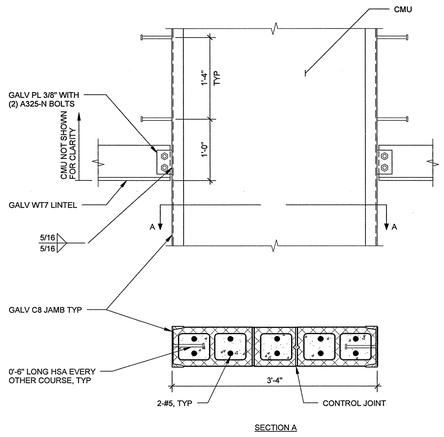
HKS PROJECT NUMBER
12528.000
DATE
APR. 19, 2011
ISSUE
BID SET

SHEET TITLE
MASONRY DETAILS

SHEET NO.
S5.02

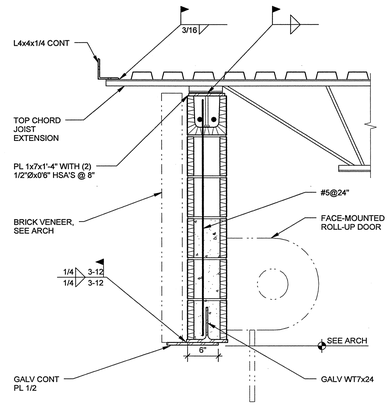


5 TYPICAL PILASTER DETAIL
1" = 1'-0"

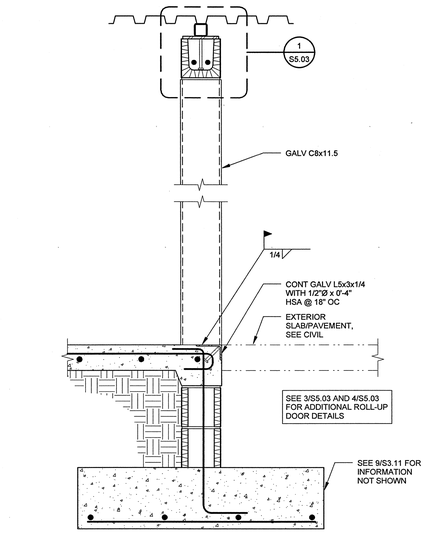


SECTION A

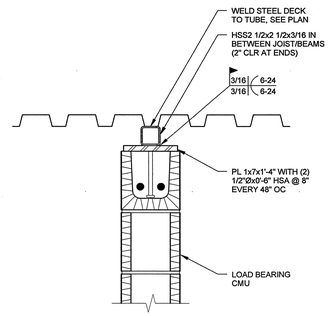
4 ROLL-UP DOOR LINTEL - JAMB DETAIL
1" = 1'-0"



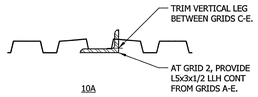
3 ROLL-UP DOOR LINTEL AND TOP CHORD JOIST EXTENSION
1" = 1'-0"



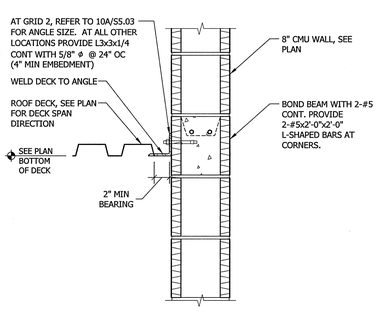
2 ROLL-UP DOOR JAMB DETAIL
1" = 1'-0"



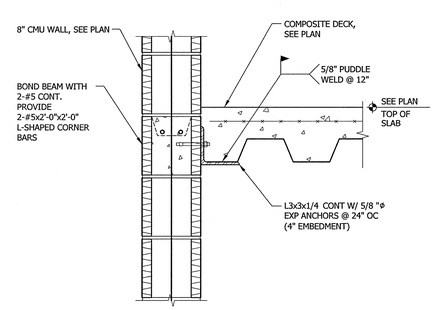
1 DIAPHRAGM COLLECTOR
1 1/2" = 1'-0"



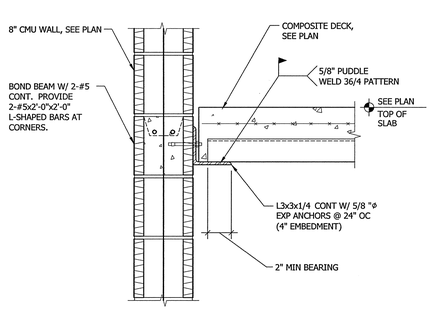
10A



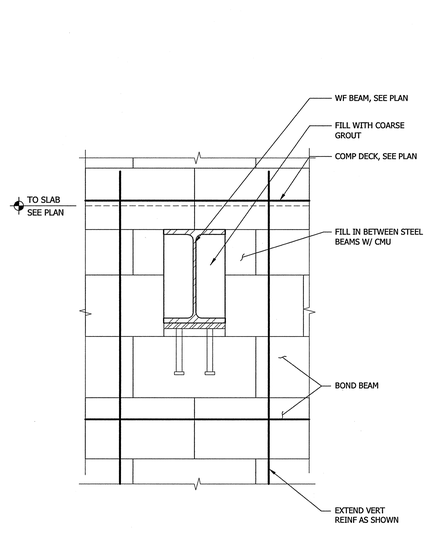
10 ROOF DECK CONNECTION TO CMU WALL
1 1/2" = 1'-0"



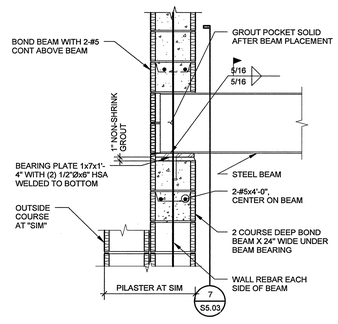
9 COMPOSITE DECK CONNECTION TO CMU WALL
1 1/2" = 1'-0"



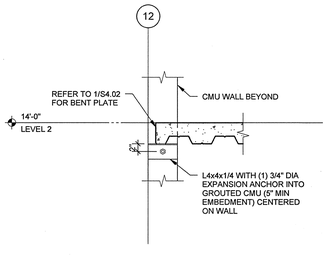
8 COMPOSITE DECK CONNECTION TO CMU WALL
1 1/2" = 1'-0"



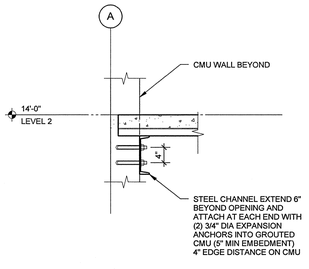
7 STEEL BEAM CMU POCKET CONNECTION
1 1/2" = 1'-0"



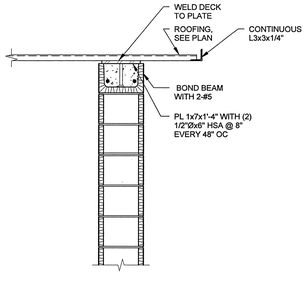
6 STEEL BEAM CMU POCKET CONNECTION
3/4" = 1'-0"



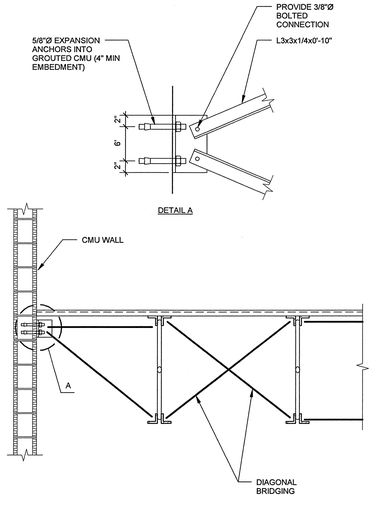
15 COMPOSITE DECK SUPPORT (PARALLEL TO WINDOW)
3/4" = 1'-0"



14 COMPOSITE DECK SUPPORT (PERPENDICULAR TO WINDOW)
3/4" = 1'-0"

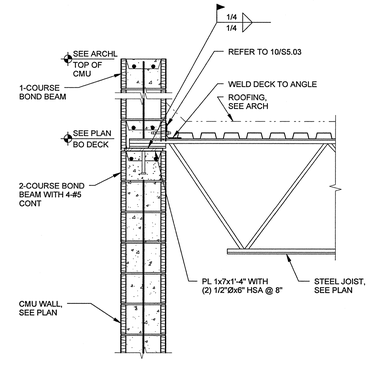


13 ROOF DECK OVER CENTRAL SPINE WALL
3/4" = 1'-0"



NOTE:
PROVIDE ONE CONNECTION AT EACH LINE OF BRIDGING

12 JOIST DIAGONAL BRIDGING TO CMU WALL
NO SCALE



11 JOIST CMU POCKET CONNECTION
3/4" = 1'-0"

PLOT DATE: 4/18/2011 2:01:37 PM TEMPLATE VERSION:

HKS

ARCHITECT
HKS, INC.
191 PEACHTREE STREET
SUITE 5000
ATLANTA, GA. 30303

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. SMITH No. 029602 4.19.11

KEY PLAN

REVISION NO. | DESCRIPTION | DATE

HKS PROJECT NUMBER
12528.000

DATE
APR. 19, 2011

ISSUE
BID SET

SHEET TITLE
MASONRY DETAILS

SHEET NO.
S5.03

ABBREVIATIONS

A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ACD	ACCESS DOOR
AD	AREA DRAIN
AF	AIR FOIL
-AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
AVD	AUTOMATIC VOLUME CONTROL DAMPER
AW	ACID WASTE
-AC	ABOVE CEILING
AH-	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BE	BOTTOM ELEVATION
-BF	BELOW FLOOR
BFP	BACK FLOW PREVENTOR
BOL	BOTTOM OF LINE (UNINSULATED)
BOD	BOTTOM OF DUCT
BP-	BOOSTER PUMP
BPD	BYPASS DAMPER
BTD	BACK-TOP DISCHARGE(FAN)
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDUIT
CAB	CABINET FAN
CC	COOLING COIL
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
CAB	CABINET FAN
CF	CENTRIFICAL FAN
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CFT	CHEMICAL FEED TANK
CH	CABINET HEATER
CHR	CHILLER
CL	CENTER LINE
CLG	CEILING FAN
CO	CLEANOUT
CP	CHILLER PUMP
CPHB	CHROME PLATED HOSE BIBB
CT	COOLING TOWER
CU	COPPER
CU-"	CONDENSING UNIT
CV-	CONVECTOR
CV	VALVE COEFFICIENT
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DHW	DOMESTIC HOT WATER
DHR	DOMESTIC HOT WATER CIRCULATING
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DS	DOWN SPOUT
DSO	DOWN SPOUT OVER FLOW
DX	DIRECT EXCHANGE
EAD	EXHAUST AIR CONTROL DAMPER
EAL	EXHAUST AIR LOUVER
EAT	ENTERING AIR TEMPERATURE
ECH	ELECTRIC CABINET HEATER
EDB	ENTERING DRY BULB
ELL	ELBOW
ERG	EXISTING RETURN GRILLE
ES	END SUCTION
ESG	EXISTING SUPPLY DIFFUSER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EQT	EQUIPMENT TRAP SET
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPANSION TANK LINE
EXT	EXTERNAL
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
F&BP	FACE & BYPASS
FC	FAN COIL UNIT
FD	FIRE DAMPER
FF	FOULING FACTOR
FF-	FLY FAN
FF	FINISHED FLOOR
FF	FINAL FILTER
FFM	FIRE FLOW METER
FLRD	FLOOR DRAIN
FLEX	FLEXIBLE
FM	FIRE MAIN
FM	FLOW METER
FMS	FLOW MEASURING STATION
FOF	FUEL OIL FLOW
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FOP	FUEL OIL PUMP
FP	FIRE PUMP
FP-	FAN POWERED
FPM	FEET PER MINUTE
FPR	FINNED PIPE RADIATION
FPS	FEET PER SECOND
FRT	FLOW RATE TRANSDUCER
FT	FEET
FTD	FRONT-TOP DISCHARGE(FAN)
G	LOW PRESSURE GAS
GA	GAUGE
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GTH	GRAND TOTAL HEAT
H	HEIGHT
HC	HEATING COIL
HB	HOSE BIBB
HBT	HORIZONTAL BLOW THROUGH
HD	HUB DRAIN
HDT	HORIZONTAL DRAW THROUGH
HP	HORSEPOWER
HP	HIGH PRESSURE
HPA	HIGH PRESSURE AIR
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
HSC	HORIZONTAL SPLIT CASE
HWG	HOT WATER GENERATOR
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
ILC	IN-LINE CENTRIFICAL
IT	INTERVAL TIMER
IN	INCHES
INV	INVERT
JB	JUNCTION BOX
L	LENGTH
LR	LONG RADIUS
LAT	LEAVING AIR TEMPERATURE
LCP	LOCAL CONTROL PANEL
LDB	LEAVING DRY BULB
LN	LIQUID NITROGEN
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
LPS	LOW PRESSURE STEAM
MAV	MANUAL AIR VENT
MVD	MANUAL VOLUME DAMPER
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MAN HOLE
MP	SUMP (MUD) PUMP
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE RETURN
MTS	MEDIUM TEMPERATURE SUPPLY
MTR	MEDIUM TEMPERATURE RETURN
MUA	MAKE-UP AIR
MUW	MAKE-UP WATER
MZ	MULTIZONE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTSIDE AIR
OAD	OUTSIDE AIR CONTROL DAMPER
OAL	OUTSIDE AIR LOUVER
ODT	OUTDOOR TEMPERATURE
PC	PUMP CONDENSATE
PD	PRESSURE DROP
PRF	PROPELLER ROOF FAN
PRV	PRESSURE REDUCING VALVE
PWF	PROPELLER WALL FAN
R	REFRIGERANT
RA	RETURN AIR
RAD	RETURN AIR CONTROL DAMPER
RAF	RETURN AIR FAN
RAS	RELIEF AIR SUPPLY
REF	RANGE EXHAUST FAN
RD	ROOF DRAIN
RF	ROOF FAN
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RP	RECIRCULATING PUMP
RS	REFRIGERANT SUCTION
RSF	ROOF SUPPLY FAN
RV	RELIEF VALVE
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAN	SANITARY SEWER
SC	SILL COCK
SCD	SMOKE CONTROL DAMPER
SCIM	STANDARD CUBIC INCHES PER MINUTE
SD	STORM DRAIN
SD	SMOKE DETECTOR
SDO	STORM DRAIN OVERFLOW
SF	SQUARE FEET
SG	SPECIALTY GAS
SHC	SENSIBLE HEAT CAPACITY
SMBH	SENSIBLE MBH
SP	SPRINKLER PIPE
SP	STAND PIPE
SP	SUMP PUMP
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SR	SHORT RADIUS
SST	SATURATED SUCTION TEMPERATURE
STA	STATION
STR	STRAINER
T	TEMPERED WATER
TB	THRUST BLOCK
TE	TOP ELEVATION (UNINSULATED)
TMBH	TOTAL MBH
TOS	TOP OF STRUCTURE
TP	CONDENSER WATER (TOWER) PUMP
TR	TEMPERED WATER RETURN
TSP	TOTAL STATIC PRESSURE
UC	UNDERCUT (DOOR - 3/4")
UG	UNDERGROUND
UF	UTILITY FAN
URF	UPBLAST ROOF FAN
V	VENT
V-	VALVE
VAC	VACUUM PIPING
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VDT	VERTICAL DRAW THROUGH
VFD	VARIABLE FREQUENCY DRIVE
VT	VERTICAL TURBINE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WASTE
WB	WET BULB
WG	WATER GAUGE
WH	WATER HEATER
WL	WATER LINE
WM	WATER METER

SINGLE LINE DUCT LEGEND

	DUCTWORK (SUPPLY, RETURN & EXHAUST)
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
R	DUCT RISE
DN	DUCT DOWN
	VOLUME DAMPER (MANUAL UNLESS INDICATED A.V.D.)
F.D. OR S.D.	FIRE DAMPER (F.D.) OR SMOKE DAMPER (S.D.)
	TRANSITION
OR	DUCT TAKE-OFF (SEE SPEC. PERTAINING TO DEFLECTROLS)
F.O.T.	TRANSITION (FLAT ON TOP)
F.O.B.	TRANSITION (FLAT ON BOTTOM)
T. OR B.	TRANSITION (TOP OR BOTTOM ONLY)
OR	SUPPLY CEILING DIFFUSER
	RETURN OR EXHAUST CEILING GRILLE
	SIDEWALL SUPPLY
	SIDEWALL RETURN
	FLEXIBLE CONNECTION (DUCT)
R.A.S.	RELIEF AIR SUPPLY TO TOILET
12/10 SPLIT	DUCT SPLIT WITH SPLITTER DAMPER
	FLEX. DUCT WITH SCREW ON COLLAR, TAKE-OFF
	LINED DUCT
	SQUARE ELBOW WITH TURNING VANES
	FIRE DAMPER (FD)
	RADIUS ELBOW (SEE SPECS. PERTAINING TO TURNING VANES)
A.V.D.	AUTOMATIC VOLUME DAMPER

HVAC LEGEND

	LINED DUCT OR PLENUM		FLEX. DUCT CONN.
	DAMPER		DAMPER
	FIRE DAMPER		ELBOW WITHOUT TURNING VANES
	ELBOW WITH TURNING VANES	F.D.	FIRE DAMPER
	ADJUSTABLE AIR EXTRACTOR		SPLITTER DAMPER
	INSULATED FLEX. DUCT		INSULATED FLEX. DUCT
24/12	DUCT SIZE FIRST DIMENSION IS SIDE SHOWN		DOOR GRILLE
T	THERMOSTAT	T N	NIGHT THERMOSTAT
I.T.	INTERVAL TIMER	T G	THERMOSTAT WITH GUARD
A.D.	ACCESS DOOR		C.F.M.
A.V.D.	AUTO VOL. DAMPER	R.A.S.	RELIEF AIR SUPPLY
B.E.	BOTTOM ELEVATION	M.V.D.	MANUAL VOL. DAMPER
F.O.B.	FLAT ON BOTTOM	T.E.	TOP ELEVATION
O.A.	OUTSIDE AIR	F.O.T.	FLAT ON TOP
U.C.	DOOR UNDERCUT (3/4 ")	R.A.	RETURN AIR
A.E.	ADJUSTABLE AIR EXTRACTOR	NTS	NOT TO SCALE
	BALANCE VALVE SCREWED & FLANGED	I/M-4	REFERS TO DETAIL OR PLAN ON SHEET M-I.
	GLOBE VALVE SCREWED & FLANGED		GATE VALVE SCREWED & FLANGED
	CHECK VALVE SCREWED & FLANGED		BUTTERFLY VALVE SCREWED & FLANGED
	3-WAY MIXING VALVE		2-WAY MOTORIZED VALVE
	SOLENOID VALVE		RELIEF VALVE
	GATE VALVE WITH 3/4" HOSE END		NEEDLE VALVE
	SCREWED UNION		CONTROL VALVE PLAN VIEW
	BRANCH OUT TOP		FLANGED UNION
	TEE OUT TOP		BRANCH OUT BOTTOM
	ELBOW UP		TEE OUT BOTTOM
	GAUGE COCK		ELBOW DOWN
	GAUGE WITH COCK		GAS COCK
	CONCENTRIC REDUCER		THERMOMETER
	PIPE ANCHOR		ECCENTRIC REDUCER
	PIPE CAP		PIPE SLEEVE
AAV	AUTOMATIC AIR VENT		MANUAL AIR VENT
	STRAINER		BLIND FLANGE
	FLEX. PIPE CONN.		BOILER DRAIN
	BACKFLOW PREVENTER		SEPARABLE SOCKET WELL
U.G.	UNDERGROUND	M.A.V.	MANUAL AIR VENT
B.O.L.	BOTTOM OF LINE (BARE)	L.R.	LONG RADIUS
	FLOW INDICATOR BAL.		PIPE TEST PLUG
HWS	HEATING WATER FLOW		ANNULAR FLOW METER(FM)
HWR	HEATING WATER RETURN	CHS	CHILLED WATER FLOW
	COLD WATER DOMESTIC	CHR	CHILLED WATER RETURN
G	NATURAL GAS		HOT WATER DOMESTIC
D	DRAIN	CS	CONDENSER WATER FLOW
TB	THRUST BLOCK	CR	CONDENSER WATER RETURN
SPS	STATIC PRESSURE SENSOR	DN	DOWN
OAL	OUTSIDE AIR LOUVER	EAL	EXHAUST AIR LOUVER
J	COMBINATION STARTER	RAO	RETURN AIR OPENING
	SMOKE DETECTOR		STARTER
	POINT OF CONNECTION		STATIC PRESSURE SENSOR

DESIGN CONDITIONS

	SUMMER	WINTER
OUTSIDE	93° F DB/77° F WB	10° F
INSIDE	75° F DB/50% RH	70° F
INSIDE (LAB SPACES)	80° F DB	68° F

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER
TRACY R. HEGWOOD

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
ABBREVIATIONS, LEGENDS & SCHEDULE - HVAC
SHEET NO.
M0.01

ROOF TOP UNIT SCHEDULE

SYMBOL	SERVICE	TOTAL C.F.M.	MIN. O.A. C.F.M.	SUPPLY FAN EXT. S.P. IN H_2O	SUPPLY FAN MOTOR HP	COOLING COIL MIN. SENSIBLE M.B.H.	COOLING COIL MIN. TOTAL M.B.H.	COOLING COIL ENTERING AIR D.B./W.B. °F	COOLING COIL LEAVING AIR D.B./W.B. °F	ELECTRIC HEATING COIL KW	LAYOUT BASIS VAV	LAYOUT BASIS MANUFACTURER CARRIER	APPROX. WEIGHT LBS. (1)	MAX. LENGTH	EXHAUST FAN APPROX. EXT.S.P. H20	EXHAUST FAN MOTOR HP
RTU-1	OFFICE/CLASSROOM	19,000	5,500	3	30	609	897	83.1/68.0	53.5/52.5	75	YES	50P3B	12,000	41'-2"	0.80	15
RTU-2	COSMO LAB	4750	1730	1.5	5	133	223	82.5/68.8	53.6/53.5	46	NO	50PMB	2,800	15'-0"	--	--
RTU-3	AUTO LAB	3075	1,075	1.5	5	102	153	85.1/69.1	53.9/53	---	NO	50TC	1,500	10'-0"	--	--
RTU-4	CONTRUCTION LAB	2440	735	1.5	5	78	114	84.8/68.2	53.9/53.1	---	NO	50TC	1,500	10'-0"	--	--

NOTES:
(1) WEIGHT DOES NOT INCLUDE ROOF CURB AND ACCESSORIES.

FAN SCHEDULE

MARK	TYPE	CFM EA	S.P. IN W.G.	MIN DIA EA (IN)	MAX MOTOR HP	MAX TIP SPEED (FT/MIN)	MAX OUTLET VELOCITY (FT/MIN)	MAX FAN RPM	DRIVE TYPE	MAX SONES	VOLTAGE /PHASE	REMARKS
EF-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	480/3	(EXISTING) I-602 WELDING LAB EXHAUST
EF-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	480/3	(EXISTING) I-602 WELDING LAB EXHAUST
EF-3	RF	10800	0.6	36	3	4740	1240	500	BELT	15	460/3	I-602 WELDING LAB EXHAUST
EF-4	RF	3600	0.25	22	1/2	3595	1090	610	BELT	11	460/3	I-702 PLDG/ELEC CONSTRUCTION IN LAB
EF-5	RF	3360	0.25	22	1/2	3425	1015	585	BELT	10	460/3	I-802 AUTOMOTIVE LAB
EF-6	RF	3360	0.25	22	1/2	3425	1015	585	BELT	10	460/3	I-802 AUTOMOTIVE LAB
EF-6A	PWF	1500	0.25	12	1/8	3750	---	1200	BELT	9.5	115/1	I-506 MAIN ELECTRICAL
EF-7	UF	1250	5	12	2	4100	1035	3170	BELT	24	460/3	I-802 AUTOMOTIVE LAB (CARBON MONOXIDE SYSTEM)
EF-8	RF	825	0.4	13	1/6	3155	695	895	BELT	6.5	115/1	I-003/I-004 RESTROOM EXHAUST
EF-9	ILC	735	0.2	12	1/6	2760	350	880	DIRECT	4.5	115/1	I-804 PARTS STORAGE
EF-10	ILC	635	0.2	12	1/6	2550	305	815	DIRECT	4.0	115/1	I-805 TOOLS CHECK-OUT
EF-11	ILC	635	0.2	12	1/6	2550	305	815	DIRECT	4.0	115/1	I-705 ELECTRICAL STORAGE
EF-12	ILC	500	0.2	12	1/6	2305	240	735	DIRECT	3.0	115/1	I-704 PLUMBING STORAGE
EF-13	RF	150	0.35	9.0	1/8	2780	195	1165	DIRECT	3.5	115/1	I-201, I-204 RESTROOMS
EF-14	RF	2200	0.5	21	1/3	3505	765	640	BELT	8.0	115/1	COSMETOLOGY/MANICURE LAB
EF-15	RF	650	0.4	10	1/6	3365	805	1285	BELT	7.5	115/1	RESTROOM EXHAUST

GRILLE SCHEDULE

MARK	TYPE	TITUS	SIZE	FINISH (1)	NECK VOLUME DAMPER	RUNOUT	REMARKS
A	RLF	TMS	24"x24"	OFF WHITE	NO	6"Ø	
B	RLF	TMS	24"x24"	OFF WHITE	NO	8"Ø	
C	RLF	TMS	24"x24"	OFF WHITE	NO	10"Ø	
D	RLF	TMS	24"x24"	OFF WHITE	NO	12"Ø	
E	CGC	50F	24"x24"	OFF WHITE	NO	24/12	
F	CGC	50F	24"x12"	OFF WHITE	NO	24/12	
G	CSDI	ML-38	48"-4-SLOT	OFF WHITE	NO	---	3/4" SLOTS
H	WSAR	300RL	12"x8"	OFF WHITE	NO	12/8	
I	WSAR	350RL	12"x8"	OFF WHITE	NO	12/8	
J	WSAR	300RL	6"x6"	OFF WHITE	NO	6/6	
K	CSDI	MP-38	48"-3-SLOT	OFF WHITE	NO	8"Ø	3/4" SLOTS
L	CGC	50F	12"x12"	OFF WHITE	NO	12/12	
M	WSAR	300RL	12"x12"	OFF WHITE	NO	18/10	

NOTES:
(1) ARCHITECT SHALL SELECT DIFFUSER FINISH.

DUCTLESS SPLIT SYSTEM SCHEDULE

INDOOR UNIT MARK	OUTDOOR UNIT MARK	MIN COOLING MBH	MIN EER	MITSUBISHI MODEL # INDOOR	MITSUBISHI MODEL # OUTDOOR	REMARKS
AC-1	CU-1	36	16	PKA-A36	PUY-A36	
AC-2	CU-2	36	16	PKA-A36	PUY-A36	
AC-3	CU-3	36	16	PKA-A36	PUY-A36	
AC-4	CU-4	36	16	PKA-A36	PUY-A36	
AC-5	CU-5	36	16	PKA-A36	PUZ-HA36	

(1) PROVIDE FACTORY CONDENSATE TANK (INSULATED) AND FLOAT ACTIVATED PUMP.

ELECTRIC WALL HEATER SCHEDULE

MARK	CAPACITY KW	CFM	VOLTAGE	REMARKS
EWH-1	2	245	208/3	I-704 PLUMBING STORAGE
EWH-2	2	245	208/3	I-705 ELECTRICAL STORAGE
EWH-3	3	245	208/3	I-805 TOOL CHECKOUT
EWH-4	3	245	208/3	I-804 PARTS STORAGE
EWH-5	5	245	208/3	I-445 VISTIBULE
EWH-6	2	245	208/3	I-001 ENTRY VESTIBULE
EWH-7	5	245	208/3	I-006 STAIR 001

ELECTRIC UNIT HEATER SCHEDULE

MARK	CAPACITY KW	CFM	VOLTAGE/ PHASE	REMARKS
EUH-1	3.3	400	277/1	I-504 PUMP ROOM

TERMINAL UNIT SCHEDULE

MARK	TITUS SIZE	COOLING MAX. CFM	HEATING MAX. CFM	HEATING MIN. CFM	COIL KW	HEATER CONTROL TYPE	REMARKS
TU 1-1	16	1,925	1,200	580	10.0	SCR	
TU 1-2	10	850	640	255	4.5	SCR	
TU 1-3	5	240	240	75	3.0	SCR	
TU 1-4	9	680	510	210	4.5	SCR	
TU 1-5	8	620	495	190	5.0	SCR	
TU 1-6	5	160	120	50	1.0	SCR	
TU 1-7	7	470	350	145	2.5	SCR	
TU 1-8	9	640	480	200	3.0	SCR	
TU 1-9	4	110	110	40	1.0	SCR	
TU 1-10	7	385	290	120	2.0	SCR	
TU 1-11	12	990	745	300	6.0	SCR	
TU 1-12	12	1,000	750	300	6.0	SCR	
TU 1-13	10	960	720	290	8.0	SCR	
TU 1-14	6	340	300	110	3.0	SCR	
TU 1-15	12	1,275	960	385	9.0	SCR	
TU 2-1	7	390	290	120	3.0	SCR	
TU 2-2	14	1,680	1,260	510	12.0	SCR	
TU 2-3	14	1,485	1,115	450	9.0	SCR	
TU 2-4	9	700	525	210	5.0	SCR	
TU 2-5	9	780	585	240	5.0	SCR	
TU 2-6	7	380	285	115	2.5	SCR	
TU 2-7	12	1,005	755	310	6.5	SCR	
TU 2-8	10	975	730	300	6.5	SCR	
TU 2-9	5	235	235	80	2.5	SCR	
TU 2-10	7	420	420	130	4.5	SCR	
TU 2-11	12	1,275	960	390	7.5	SCR	
TU 2-12	14	1,450	1,090	440	9.0	SCR	

GAS FIRED UNIT HEATER SCHEDULE

MARK	CFM	INPUT MBH	OUTPUT MBH	FAN MOTOR HP	REMARKS
UH-1	1840	100	80	1/6	I-602 WELDING LAB
UH-2	1840	100	80	1/6	I-602 WELDING LAB
UH-3	995	60	48	1/20	I-702 PLDG/ELEC CONST. LAB
UH-4	995	60	48	1/20	I-702 PLDG/ELEC CONST. LAB
UH-5	1120	75	60	1/20	I-702 PLDG/ELEC CONST. LAB
UH-6	2300	125	100	1/6	I-802 AUTOMOTIVE LAB
UH-7	1840	100	80	1/6	I-802 AUTOMOTIVE LAB
UH-8	2300	125	100	1/6	I-802 AUTOMOTIVE LAB

GAS FIRED RADIANT HEATER SCHEDULE

MARK	IMPUT MBH	LENGTH IN FEET	FUEL TYPE	INCHES W.C.	REMARKS
RH-1	50	30	NAT GAS	4.5"-14"	WELDING LAB
RH-2	50	30	NAT GAS	4.5"-14"	WELDING LAB

ELEC BASEBOARD HEATER SCHD

MARK	CAPACITY WATTS/FT	APPROX LENGTH FT	FINISH	VOLTS	REMARKS
EDB-1	250	15	(1)	277/1	3-5' SECTIONS (2)

NOTES:
(1) ARCHITECT TO SELECT HEATER FINISH.
(2) CONTINUOUS APPEARANCE, PROVIDE BLANKS AS NECESSARY TO SPAN ENTIRE LENGTH OF WINDOW FRAME WIDTH.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER
Expires
JEAN M. BROCK
JULIE R. HEGINS

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

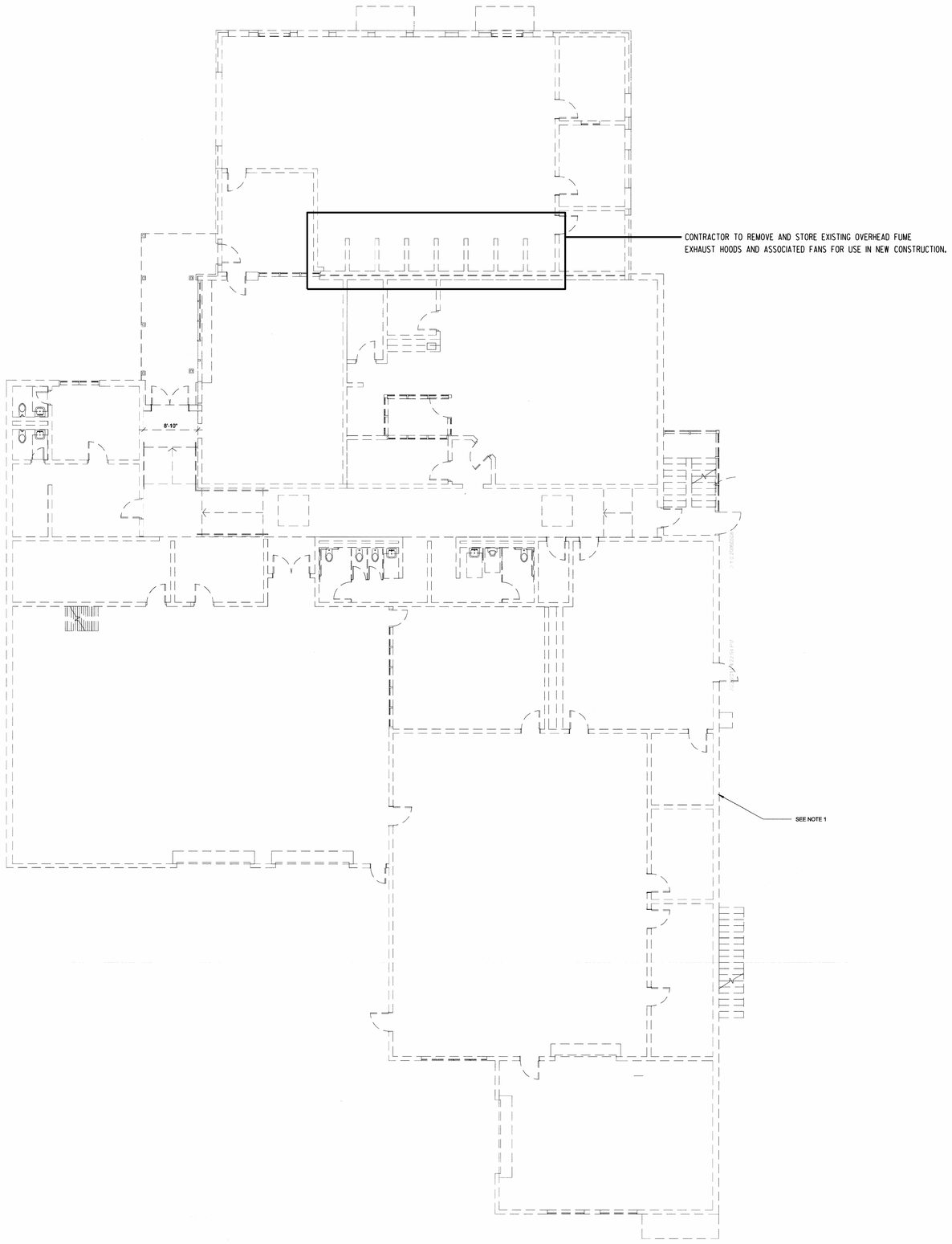
KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
SCHEDULES - HVAC

SHEET NO.
M0.02



1 EXISTING FIRST FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TRACY R. HEGINS

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
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DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
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ATLANTA, GA. 30345

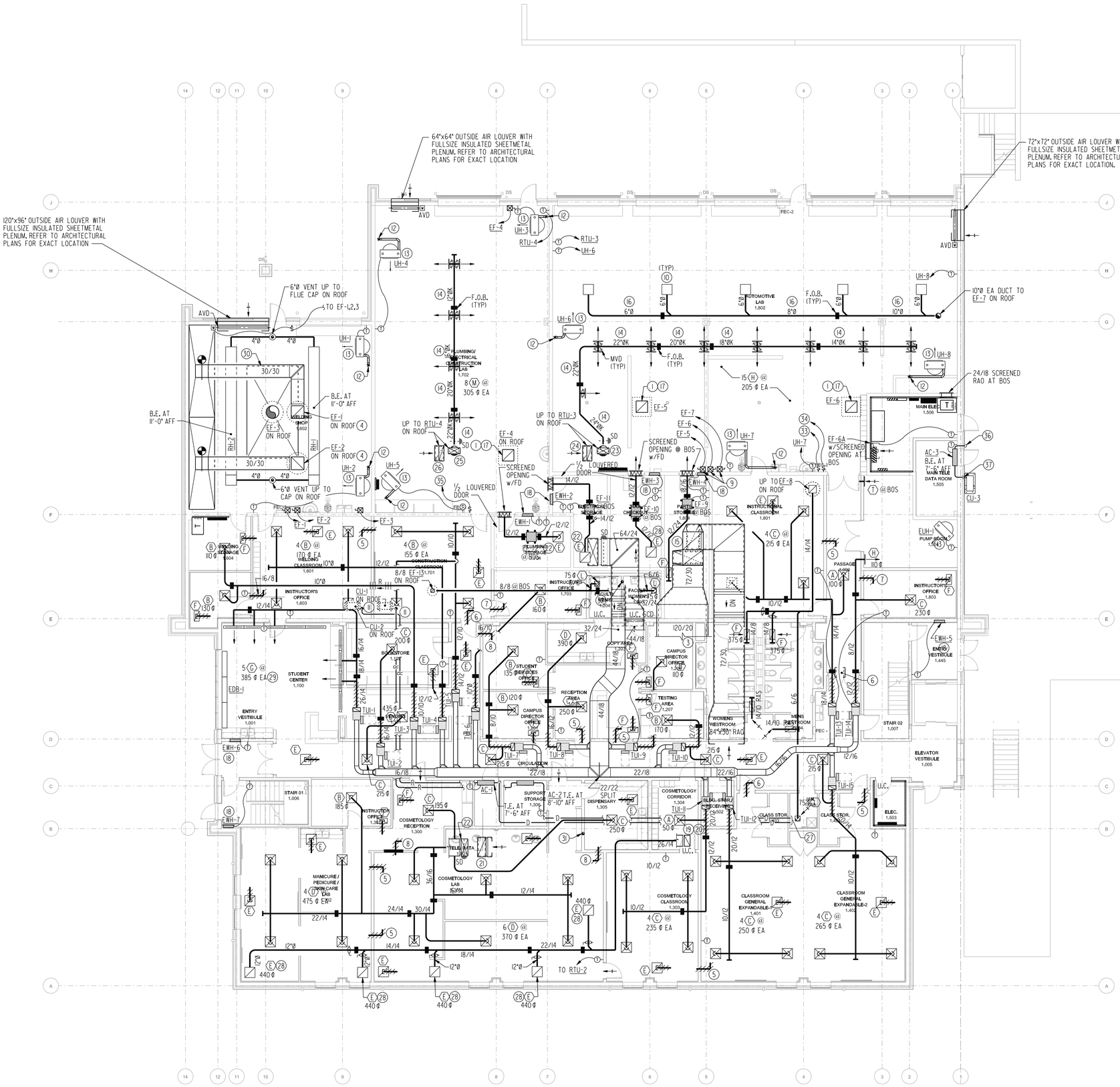
KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
EXISTING FIRST FLOOR PLAN - HVAC

SHEET NO.
M1.01



NOTES: (THIS SHEET ONLY)

1. INTERLOCK EXHAUST FAN WITH OAL AVD FOR LAB VENTILATION.
2. SUPPLY DUCT UP WITH FD/SCD AT FLOOR PENETRATION.
3. REFER TO M2.02 FOR CONTINUATION.
4. EXISTING HOOD AND FANS TO BE RELOCATED AS SHOWN. B.E. OF HOODS AT 6'-8" AFF. PROVIDE 32" TALL DISCHARGE PLENUM AT TOP OF EXISTING HOOD.
5. 24"x18" LINED RETURN AIR TRANSFER DUCT ABOVE CEILING.
6. 38"x18" LINED RETURN AIR TRANSFER ABOVE CEILING.
7. 16"x18" LINED RETURN AIR TRANSFER ABOVE CEILING.
8. 16"x10" LINED RETURN AIR TRANSFER ABOVE CEILING.
9. COMBINATION STARTER AND DISCONNECT.
10. OVERHEAD AUTOMOTIVE EXHAUST HOSE REEL B.E. AT 9'-0" ABOVE FINISHED FLOOR.
11. RL/RS UP TO CU-1 AND 2 ON ROOF. SEE PER MANUFACTURERS RECOMMENDATION.
12. 4" DIAMETER INLET/EXHAUST WITH CONCENTRIC ADAPTER TO VERTICAL VENT TERMINAL ON ROOF.
13. B.E. AT 9'-0" ABOVE FINISHED FLOOR.
14. K-DUCT B.E. AT 12'-6" ABOVE FINISHED FLOOR.
15. 40"x48" SPLIT UP TO RTU-1 WITH CO2 AND RH SENSORS.
16. B.E. AT 14'-0" ABOVE FINISHED FLOOR.
17. 24"x24" EXHAUST AIR DUCT UP TO FAN ON ROOF
18. B.E. AT 6" ABOVE FINISHED FLOOR.
19. 26"x14" EXHAUST AIR DUCT UP WITH FD/SCD AT SLAB PENETRATION.
20. TRANSITION TO 22"x22" IN CHASE TO EF-14 ON ROOF.
21. 46"x20" LINED RETURN AIR DUCT UP WITH FD/SCD.
22. 40"x16" SUPPLY AIR DUCT UP WITH FD/SCD.
23. 24"Ø DUCT TRANSITION IN VERTICAL TO RTU-3 ON ROOF.
24. 36"x22" LINED RETURN AIR DUCT WITH SCREENED OPENING B.E. AT 12'-5" ABOVE FINISHED FLOOR, TRANSITION IN VERTICAL TO RTU-3 ON ROOF.
25. 22"ØK DUCT TRANSITION IN VERTICAL TO RTU-4 ON ROOF.
26. 36"x22" LINED RETURN AIR DUCT WITH SCREENED OPENING B.E. AT 12'-5" ABOVE FINISHED FLOOR, TRANSITION IN VERTICAL TO RTU-4 ON ROOF.
27. ROUTE ¾" CD FROM AC DOWN ALONG WALL TO FLOOR DRAIN IN I-008 JAN.
28. EGGERATE GRILLE WITH 16" FULLSIZE METAL PLENUM.
29. PROVIDE CONTINUOUS CONCEALED MOUNTING APPEARANCE FULL LENGTH OF WALL. BLANK-OFF UNUSED SECTIONS.
30. 216"x120"x24" DEEP METAL CAPTURE HOOD. B.E. AT 7'-0" AFF.
31. 4"Ø DRYER VENT UP INWALL TO VENT ON ROOF. SEE M7.02 FOR CONTINUATION. COORDINATION EXACT LOCATION WITH FINAL DRYER TERMINAL LOCATION.
32. 32/32 SPLIT.
33. TO EF-5 COMBINATION STARTER DISCONNECT.
34. TO EF-6 COMBINATION STARTER DISCONNECT.
35. TO EF-4 COMBINATION STARTER DISCONNECT.
36. 3/4" CD DN ALONG WALL IN LINE SET COVER TO P-TRAP AT 18" ABOVE GRADE.
37. RL/RS DN IN WALL SIZE PER MANUFACTURERS RECOMMENDATION.

1 FIRST FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 575
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER
Wayne R. Hedgins
WAYNE R. HEDGINS

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

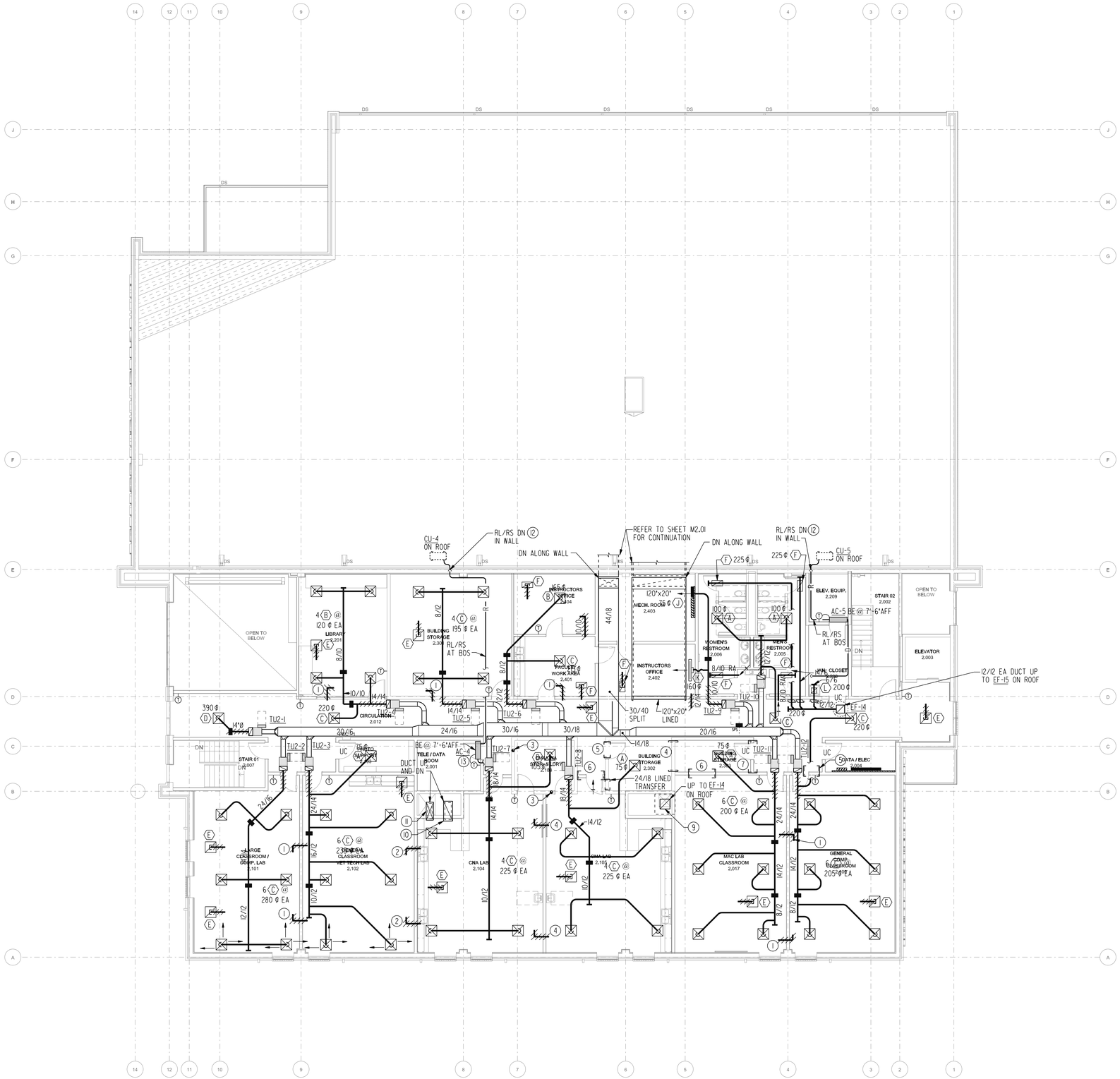
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
FIRST FLOOR PLAN - HVAC

SHEET NO.
M2.01

PLOT DATE:
9/19/2009 11:19:09 PM
TEMPLATE VERSION: 2.1.0.20090508



1 SECOND FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"

8 0 4 8 16

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NOTES: (THIS SHEET ONLY)

1. 22/16 LINED RETURN AIR TRANSFER DUCT.
2. 30/20 LINED RETURN AIR TRANSFER DUCT.
3. 4"Ø DRYER VENT UP IN WALL TO VENT ON ROOF.
4. 68/30 LINED RETURN AIR TRANSFER DUCT.
5. 36/20 LINED RETURN AIR TRANSFER DUCT.
6. 60/22 LINED RETURN AIR TRANSFER DUCT.
7. 72/30 LINED RETURN AIR TRANFER DUCT.
8. 22/22 EXHAUST AIR DUCT UP TO EF-14 ON ROOF.
9. 22/22 EXHAUST AIR DUCT TRANSITION IN VERTICAL TO 26"x14" @ FLOOR PENERATION.
10. 44/20 LINED R.A. DUCT UP TO RTU-2 ON ROOF.
11. 40/16 SUPPLY AIR DUCT UP TO RTU-2 ON ROOF. LINE FIRST 10' OF SUPPLY AIR DUCT.
12. SIZE RL/RS LINES PER MANUFACTURERS RECOMMENDATION.
13. ROUTE CD TO NEAREST HUB DRAIN.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER
CRAIG R. HEDRICK

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
SECOND FLOOR PLAN - HVAC

SHEET NO.
M2.02

PLOT DATE:
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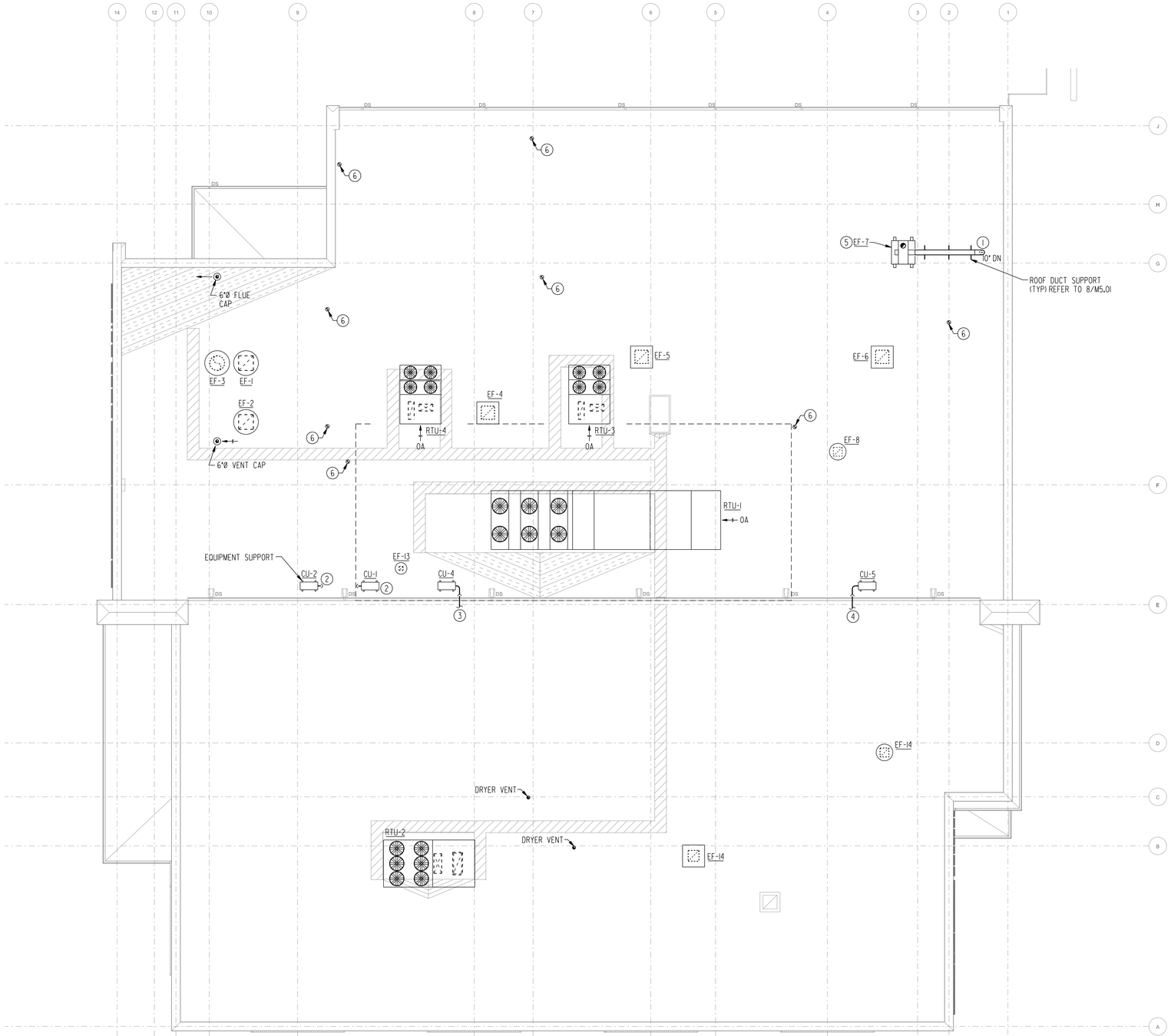

NOTES: (THIS SHEET ONLY)

1. 10"Ø EXHAUST DUCT DOWN THRU ROOF CURB.
2. ROUTE REFRIGERANT LINES DOWN IN PIPE CURB. REFER TO 14/M5.01.
3. REFRIGERANT LINES UP IN WALL TO AC-4 ON SECOND FLOOR.
4. REFRIGERANT LINES UP IN WALL TO AC-5 ON SECOND FLOOR.
5. REFER TO 16/M5.01.
6. COMBINATION VENT TERMINAL ON ROOF.

1 ROOF PLAN - HVAC
SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER ISAAC R. HEGINBOTHAM

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
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KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
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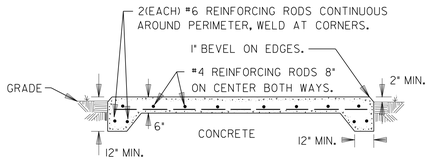
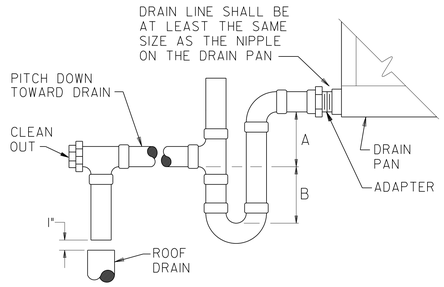
SHEET TITLE
ROOF PLAN - HVAC

SHEET NO.
M2.03



(PAD SIZE TO BE 12" LARGER THAN UNIT SIZE UNLESS OTHERWISE NOTED.)

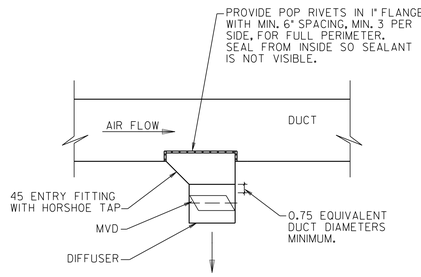
1 CONCRETE PAD
NOT TO SCALE



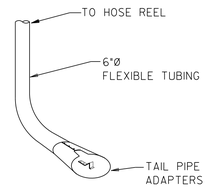
UNIT TYPE	A	B
BLOW THRU	1" MIN.	1.5"X
DRAW THRU	2" PLUS X	X

WHERE X = STATIC PRESSURE IN PAN IN INCHES - H2O

2 AIR HANDLING UNIT DRAIN TRAP - BLOW THROUGH
NOT TO SCALE

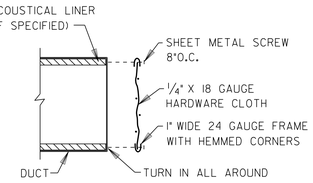


SIDEWALL DIFFUSER IN EXPOSED ROUND/FLAT OVAL DUCTS
3
NOT TO SCALE



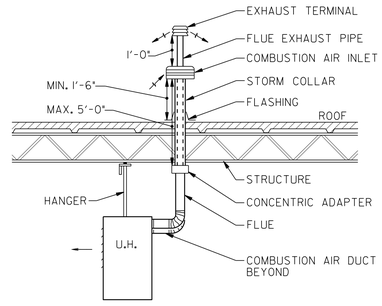
4 TYPICAL EXHAUST PIPE EXTENSION
NOT TO SCALE

PROVIDE EXTENSION PER BUILDING



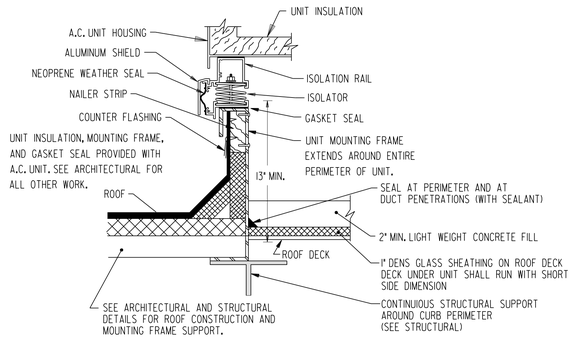
5 SCREENED DUCT OPENING DETAIL
NOT TO SCALE

NOTE: INSTALL SCREEN AT ALL VISIBLE DUCT OPENINGS IN MECHANICAL ROOM(S) AND WHERE SHOWN.



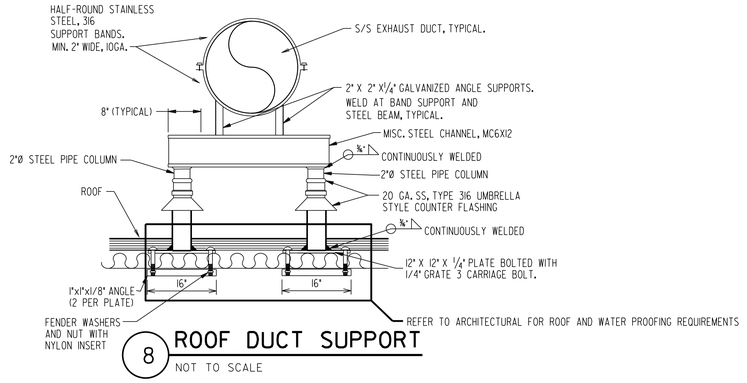
ROOF APPLICATION

6 GAS UNIT HEATER
NOT TO SCALE

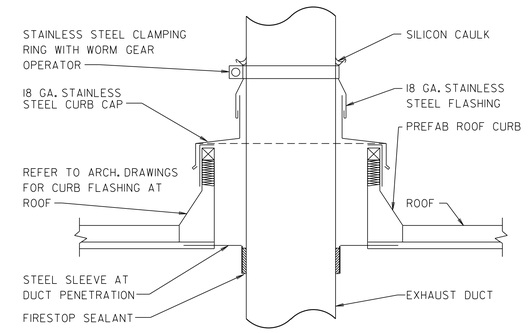


7 A.C. UNIT MOUNTING FRAME
NOT TO SCALE

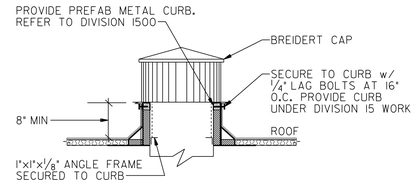
INSTALL FRAME IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS ROOF INSULATION FILL AND METAL DECK SHALL EXTEND OVER ENTIRE AREA BENEATH A.C. UNIT EXCEPT AT SUPPLY AND RETURN DUCT PENETRATIONS



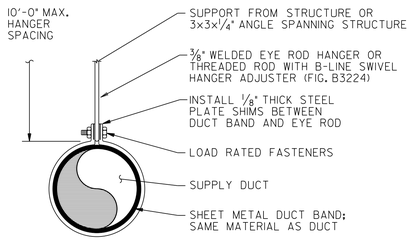
8 ROOF DUCT SUPPORT
NOT TO SCALE



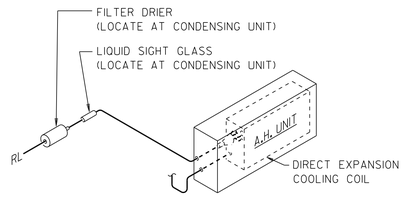
12 EXHAUST DUCT THRU ROOF CURB
NOT TO SCALE



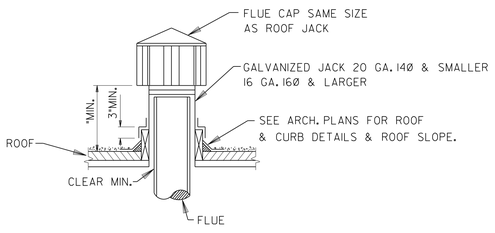
9 ROOF CAP
NOT TO SCALE



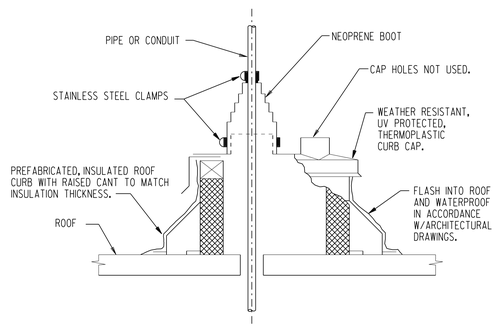
DUCT SUPPORT IN EXPOSED AREAS
10
NOT TO SCALE



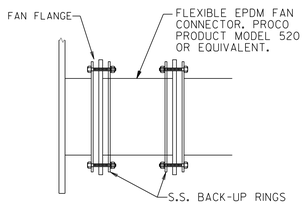
11 REFRIGERANT PIPING
NOT TO SCALE



13 FLUE THRU ROOF DETAIL
NOT TO SCALE

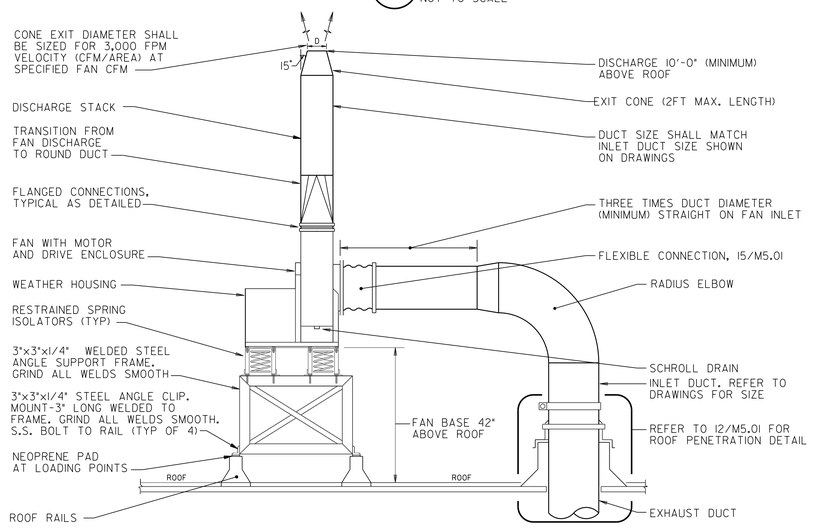


14 DETAIL PIPE CURB
NOT TO SCALE



PROVIDE FOR GENERAL PURPOSE HOOD EXHAUST FANS ONLY. DO NOT PROVIDE AT NITRIC OR PERCHLORIC FANS.

15 FUME FAN CONNECTION DETAIL
NOT TO SCALE



16 UTILITY FAN DETAIL
NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER
Dale R. Herring

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

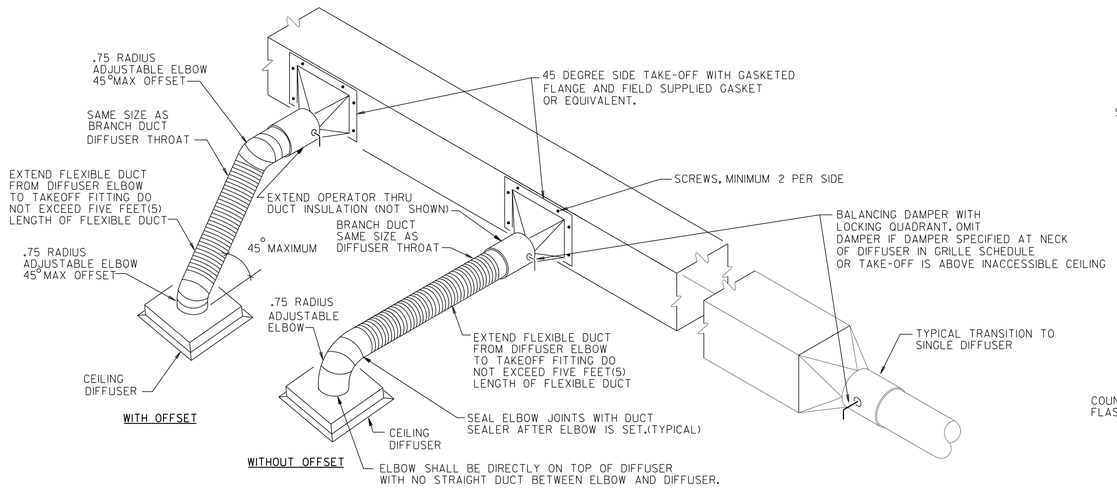
KEY PLAN

REVISION
NO. DESCRIPTION DATE

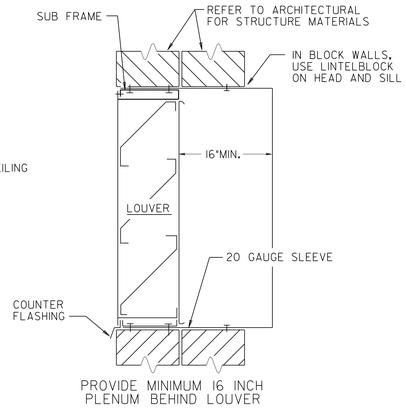
HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
DETAILS - HVAC

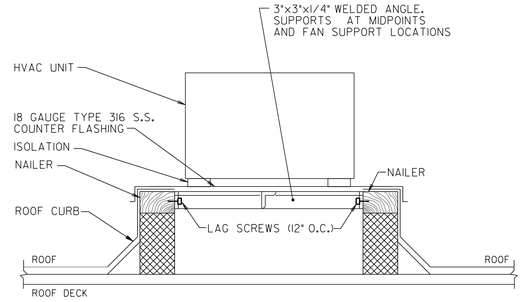
SHEET NO.
M5.01



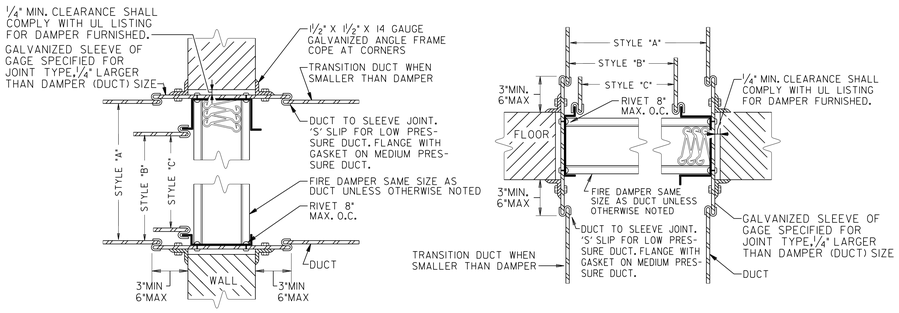
1 DIFFUSER RUNOUT DUCT TAKEOFF
NOT TO SCALE



2 WALL MOUNTED LOUVER WITH PLENUM
NOT TO SCALE



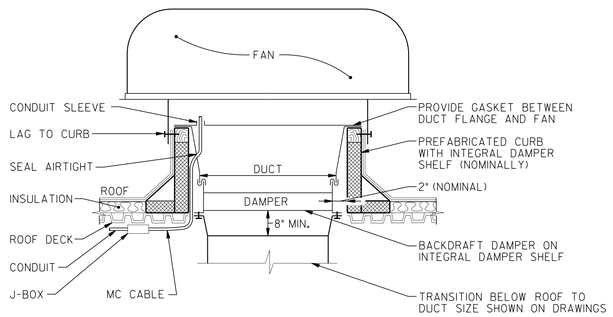
3 ROOF CURB DETAIL
NOT TO SCALE



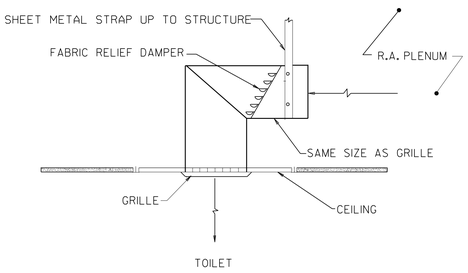
VERTICAL FIRE DAMPER HORIZONTAL FIRE DAMPER

ALL FIRE DAMPERS ON THE PROJECT SHALL BE STYLE 'A' TYPE FIRE DAMPERS UNLESS OTHERWISE NOTED. DAMPERS LOCATED IN MEDIUM OR HIGH PRESSURE DUCTWORK SHALL BE STYLE 'C' FIRE DAMPERS. WHERE DAMPERS ARE INSTALLED IN DRYWALL PARTITION, STUD FRAMING SHALL BE PROVIDED ON ALL FOUR SIDES ON DAMPER.

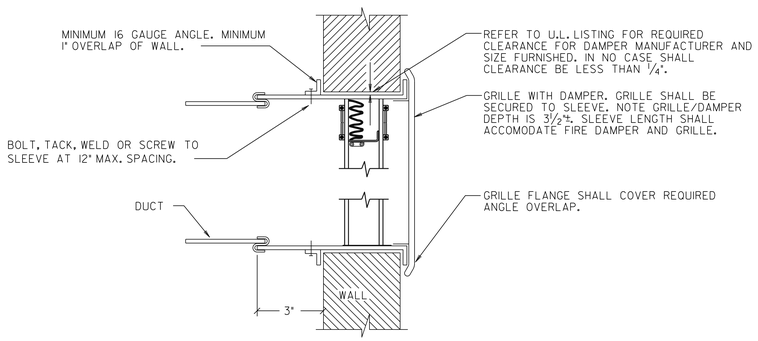
4 FIRE DAMPER DETAIL
NOT TO SCALE



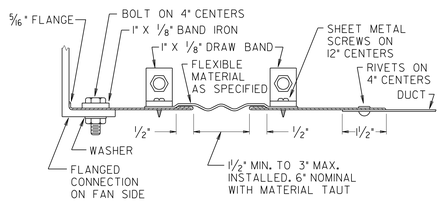
5 FAN ON ROOF
NOT TO SCALE



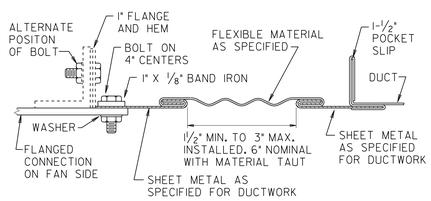
6 RELIEF AIR SUPPLY TO TOILET (RAS)
NOT TO SCALE



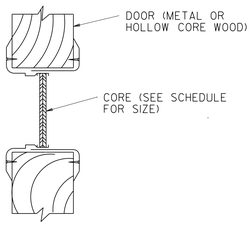
7 SIDEWALL GRILLE WITH FIRE DAMPER
NOT TO SCALE



8 ROUND FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



9 RECTANGULAR FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



10 DOOR GRILLE
NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER JULIE R. HEGINS

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
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ATLANTA, GA. 30345

KEY PLAN

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12528.000
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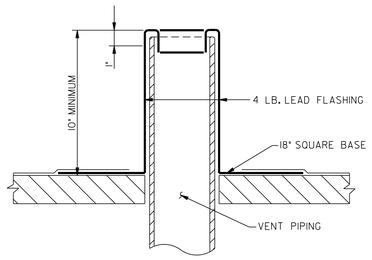
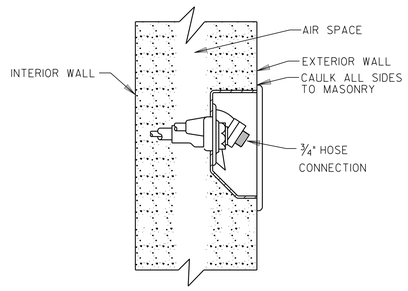
SHEET TITLE
DETAILS - HVAC

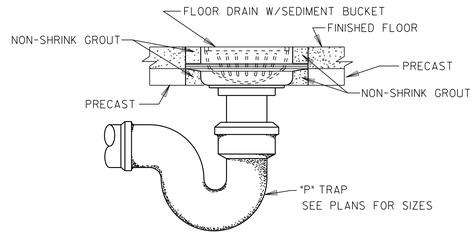
SHEET NO.
M5.02



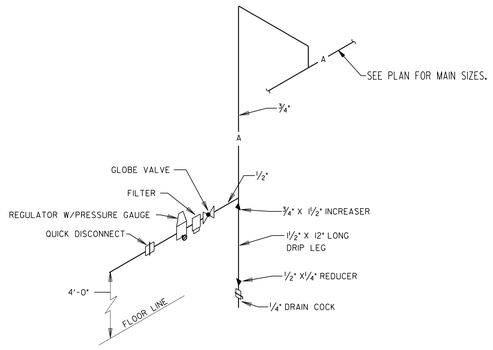
1 VENT THRU ROOF
NOT TO SCALE



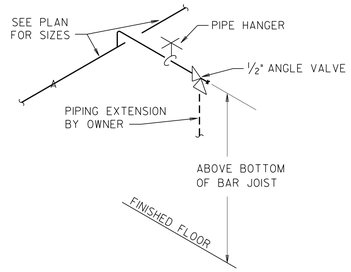
2 NON-FREEZE WALL HYDRANT
NOT TO SCALE



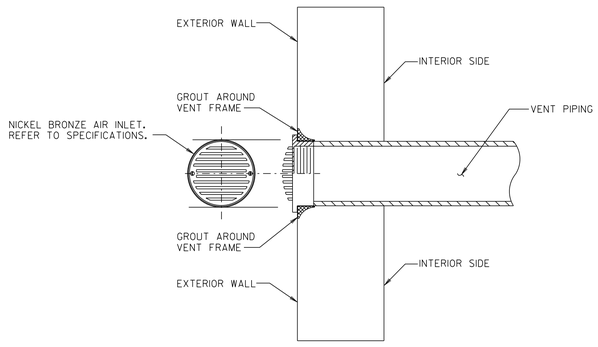
3 TYPE 'B' FLOOR DRAIN
NOT TO SCALE



4 COMPRESSED AIR OUTLET
NOT TO SCALE



5 AIR DROP OUTLET
NOT TO SCALE



6 VENT THRU WALL
NOT TO SCALE

LEGEND

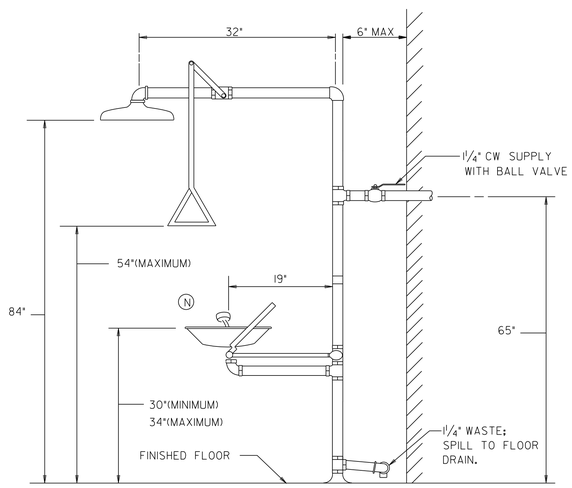
———	SOIL , WASTE	- - - - -	VENT
—D—	CONDENSATE DRAIN	———	COLD WATER
—T—	TEMPERED WATER (II5°)	—TR—	TEMPERED WATER RETURN
—G—	GAS (LOW PRESSURE)	—HPG—	HIGH PRESSURE GAS
—(A)—	LAB AIR OUTLET	—(V)—	LAB VACUUM OUTLET
	BALL VALVE		GATE VALVE
	FLOW INDICATOR BALANCER (CIRCUIT SETTER)		CHECK VALVE
	PRESSURE REDUCING VALVE		STRAINER
	GLOBE VALVE		UNION
	GAS COCK		AQUASTAT
NFWH	NON-FREEZE WALL HYDRANT		HOSE BIBB (HB)
T	TEST (PETE'S) PLUG		THERMOMETER
	INCREASER		FLOOR DRAIN (FD)
	CLEANOUT (CO)		CLEANOUT (CO)
	HUB DRAIN	BF	BELOW FLOOR
AC	ABOVE CEILING	AFF	ABOVE FINISHED FLOOR
VTR	VENT THRU ROOF	AFG	ABOVE FINISHED GRADE
NTS	NOT TO SCALE	CPHB	CHROME PLATED HOSE BIBB

FIXTURE SCHEDULE

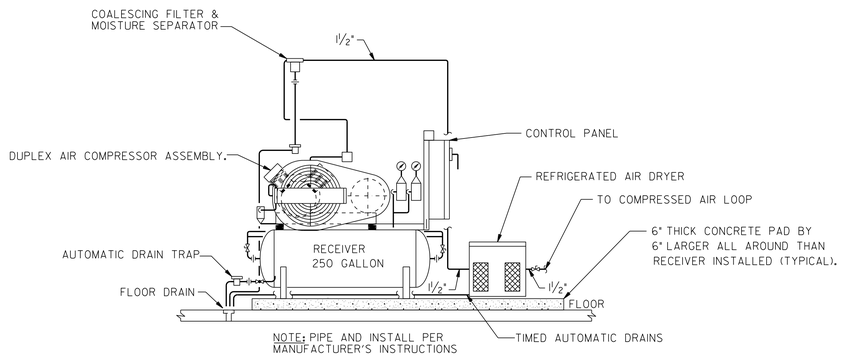
NO.	FIXTURES	FLOOR TO RIM	WASTE	SUPPLY HOT	SUPPLY COLD	FIX. CONN. HOT	FIX. CONN. COLD	REMARKS
A	WATER CLOSET	15"	4"	--	1"	--	1"	
B	WATER CLOSET	17"	4"	--	1"	--	1"	ADA
C	URINAL	24"	4"	--	1"	--	1"	(WATERLESS)
D	URINAL	17"	2"	--	--	--	--	ADA (WATERLESS)
E	LAVATORY	CT	1¼"	½"	½"	⅜"	⅜"	ADA
F	LAVATORY	34"	1¼"	½"	½"	⅜"	⅜"	ADA
G	SINK	CT	1½"	½"	½"	½"	½"	ADA
H	SINK	CT	1½"	½"	½"	½"	½"	ADA
J	SHAMPOO BOWL	34"	1½"	½"	½"	½"	½"	
K	ICE MAKER SUPPLY BOX	18"	--	--	½"	--	⅜"	
L	MOP BASIN	10"	3"	½"	½"	½"	½"	
M	ELECTRIC WATER COOLER	40" / 36"•	1¼"	--	½"	--	⅜"	ADA
N	EMERGENCY SHOWER/ EYEWASH	SEE DETAIL	1"	1"	1"	1"	1"	ADA
P	WASHING MACHINE BOX	36"	2"	½"	½"	½"	½"	
Q	WASH FOUNTAIN	36"	2"	½"	½"	½"	½"	
R	SINK	CT	1½"	½"	½"	½"	½"	ADA

• MOUNT AT 36" ABOVE FINISHED FLOOR TO CENTERLINE OF BUBBLER SPOUT

•• TEMPERED WATER CONNECTION



7 EMERGENCY SHOWER/EYEWASH DETAIL
NOT TO SCALE



8 AIR COMPRESSOR DETAIL
NOT TO SCALE

NOTE TO CONTRACTOR:

WHERE CONNECTING TO A UTILITY OR SERVICE, VERIFY LOCATION, SIZES, MATERIALS, FLUID BEING HANDLED AND INVERTS OF ALL EXISTING UTILITIES AND CONFIRM THAT NEW PIPES BEING ROUTED TO EXISTING UTILITIES CAN BE INSTALLED CONFORMING TO CODE AND AS SHOWN. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO PURCHASING ANY MATERIALS OR PERFORMING ANY WORK. EXTENSION OF WORK OR CONNECTION, WITH THE EXCEPTION OF EXCAVATION OR OTHER WORK TO PROVIDE ACCESS TO THE CONCEALED UTILITY.

GENERAL NOTES

1 - SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.

2 - COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS AND ELECTRICAL CONDUIT.

3 - ALL WATER PIPING SHALL BE RUN ABOVE CEILING UNLESS OTHERWISE NOTED.

4 - ALL VENTS THRU ROOF (VTR) SHALL BE OFFSET A MINIMUM OF 15'-0" FROM ALL OUTSIDE INTAKES.

5 - PROVIDE HANGER ON ALL HORIZONTAL WATER PIPING INSIDE CHASES WITHIN 6" OF SPECIFIED AIR CHAMBER/WATER HAMMER ARRESTOR.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1152 CENTURY PLAZA, SUITE 212
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 03016 WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

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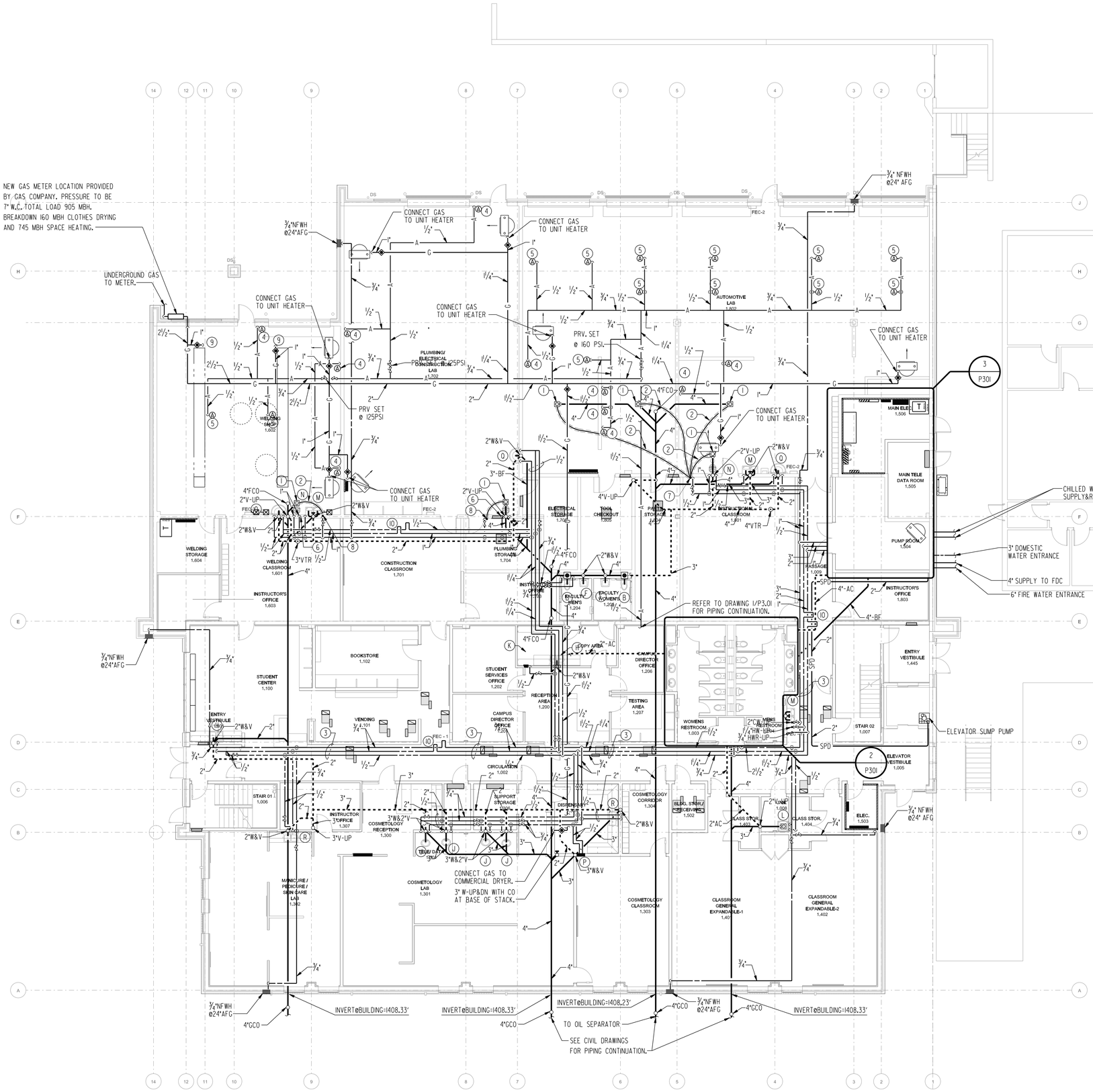
SHEET TITLE
LEGEND, SCHEDULE, NOTES & DETAILS - PLUMBING
SHEET NO.
P0.01



NOTES: (THIS SHEET ONLY)

1. 4" FLOOR DRAIN TYPE 'B' WITH TRAP PRIMER CONNECTION.
2. ROUTE ½" TYPE 'L' SOFT COPPER PIPING BELOW FLOOR, WITH NO JOINTS BETWEEN FLOOR DRAIN AND TRAP PRIMER, ENCASED IN FLEXIBLE ELASTOMERIC INSULATION.
3. ROUTE WATER PIPING OVER HVAC BOXES TO ALLOW ACCESS TO CONTROL PANELS ON TERMINAL UNITS.
4. WALL MOUNTED COMPRESSED AIR OUTLET. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. REFER TO DETAIL 4/P0.01.
5. CEILING COMPRESSED AIR OUTLET. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. REFER TO DETAIL 5/P0.01.
6. ROUTE 1" CW & 1" HW TO THERMOSTATIC MIXING VALVE ABOVE CEILING. ROUTE 1¼" TEPID WATER (85°F) TO EMERGENCY SHOWER/EYEWASH.
7. MULTIPLE TRAP PRIMER VALVE ASSEMBLY; REFER TO DETAIL 2/P5.01.
8. SINGLE TRAP PRIMER VALVE; REFER TO DETAIL 9/P5.01.
9. ROUTE 1" GAS TO RADIANT HEATER.
10. INSTALL EXPANSION LOOP IN CPVC PIPING. SIZE IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

1 FIRST FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 575
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 031 PROFESSIONAL ENGINEER WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

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HKS PROJECT NUMBER
12528.000
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SHEET TITLE
FIRST FLOOR PLAN - PLUMBING

SHEET NO.
P2.01

DGN FILE
P:\09529\Arch\09529p0000.dgn

DATE PLOTTED
19-APR-201

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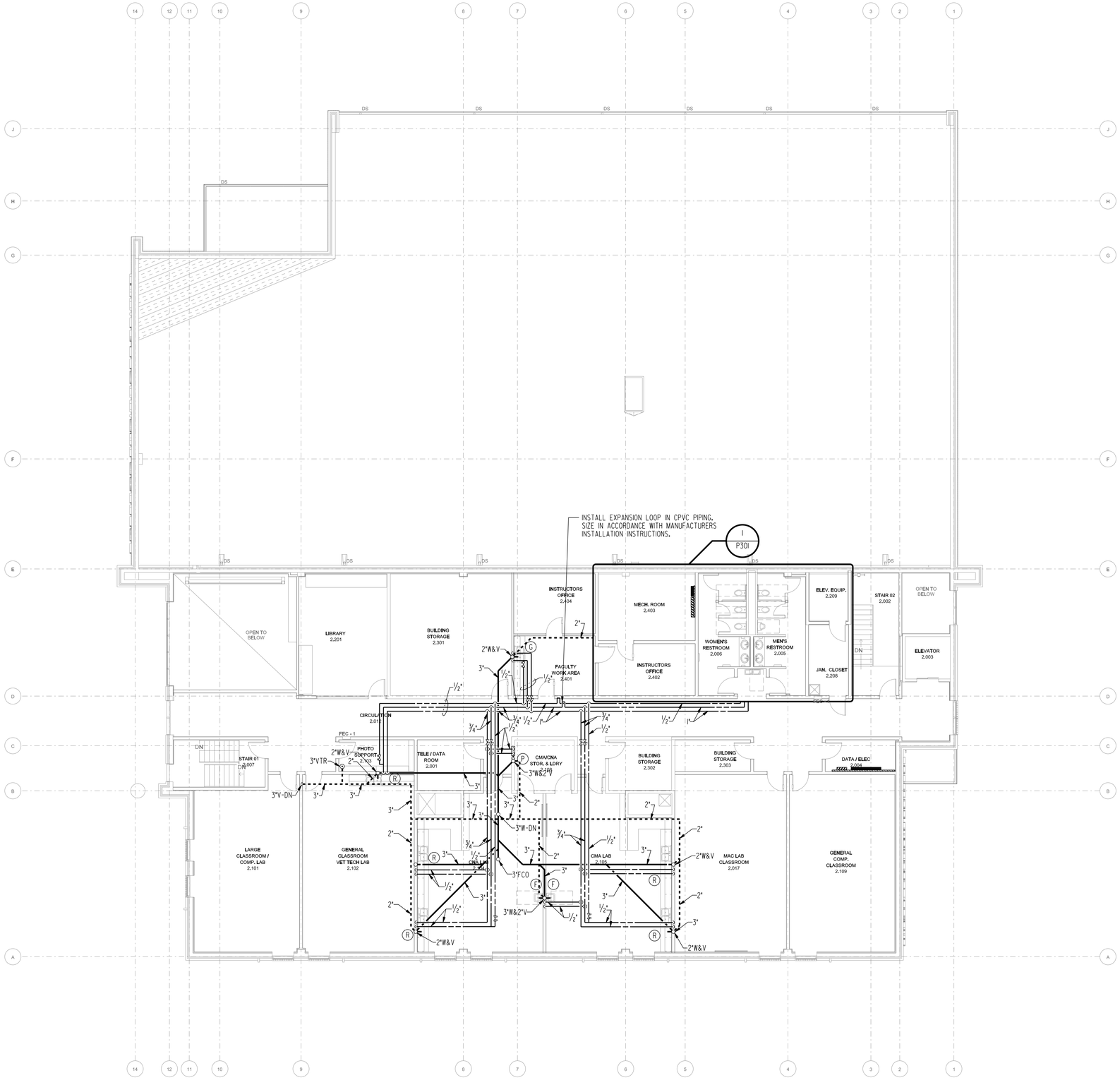

I SECOND FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

N

PLOT DATE:
9/19/2009 11:19:09 PM TEMPLATE VERSION#: 2.0.20090508

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 575
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

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WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 03[illegible] PROFESSIONAL ENGINEER WILLIAM H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

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GEORGIA STATE
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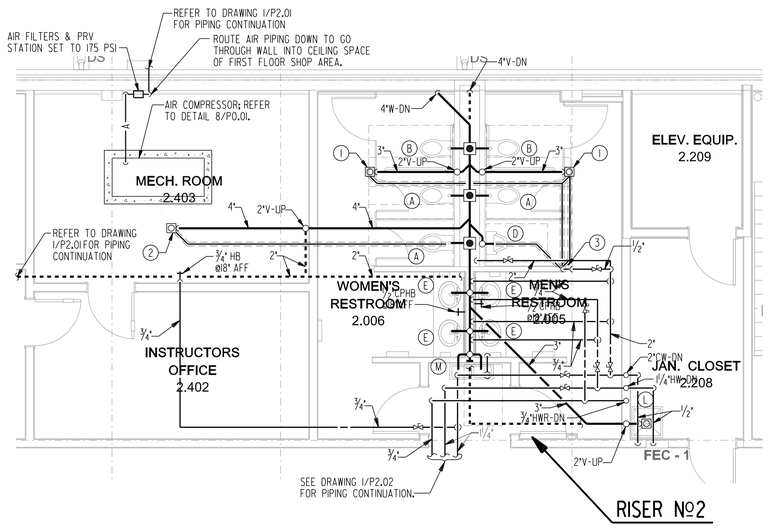
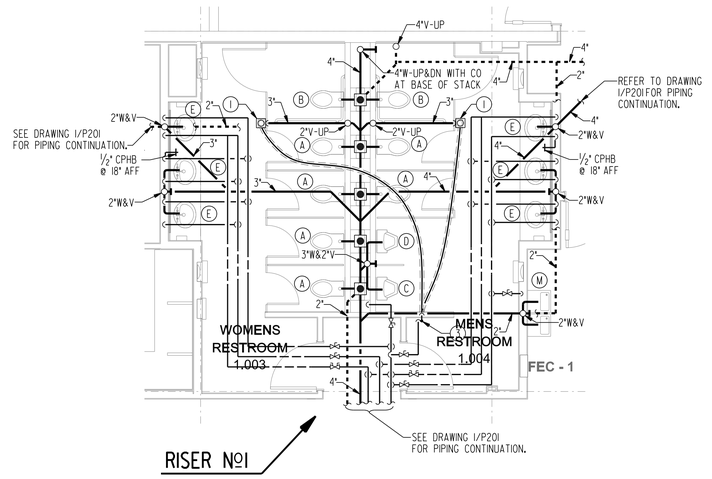
SHEET TITLE
SECOND FLOOR PLAN - PLUMBING

SHEET NO.
P2.02



1 LARGE SCALE - MAIN MECHANICAL ROOM & 2ND LEVEL TOILET ROOM - PLUMBING

SCALE: 1/4" = 1'-0"

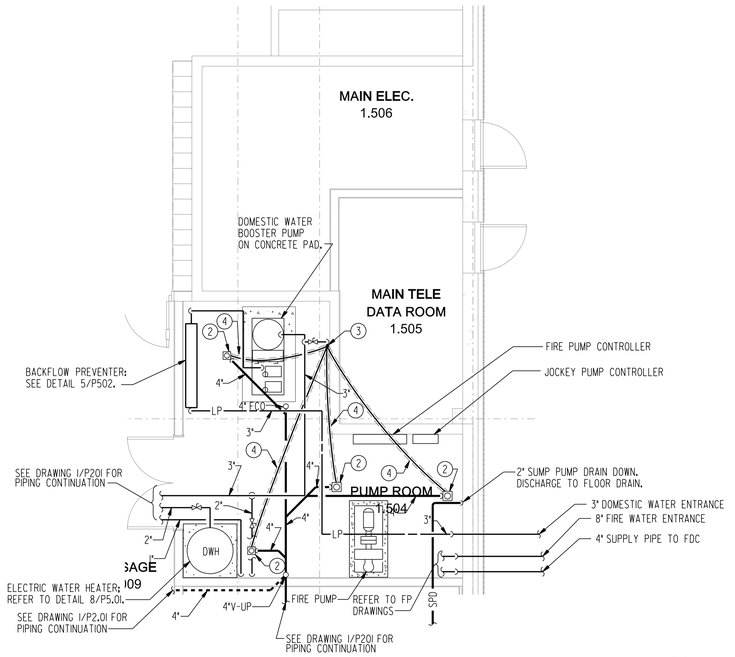


2 LARGE SCALE - IST LEVEL TOILET ROOM - PLUMBING

SCALE: 1/4" = 1'-0"

NOTES: (THIS SHEET ONLY)

1. 3" FLOOR DRAIN, TYPE 'A' WITH TRAP PRIMER CONNECTION.
2. 4" FLOOR DRAIN, TYPE 'B' WITH TRAP PRIMER CONNECTION.
3. MULTIPLE TRAP PRIMER VALVE ASSEMBLY; REFER TO DETAIL 2P5.0I.
4. ROUTE ½" TYPE 'L' SOFT COPPER PIPING BELOW FLOOR, WITH NO JOINTS BETWEEN FLOOR DRAIN AND TRAP PRIMER, ENCASED IN FLEXIBLE ELASTOMERIC INSULATION.



3 LARGE SCALE - IST LEVEL UTILITY SERVICE ROOMS - PLUMBING

SCALE: 1/4" = 1'-0"

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 031 PROFESSIONAL ENGINEER WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
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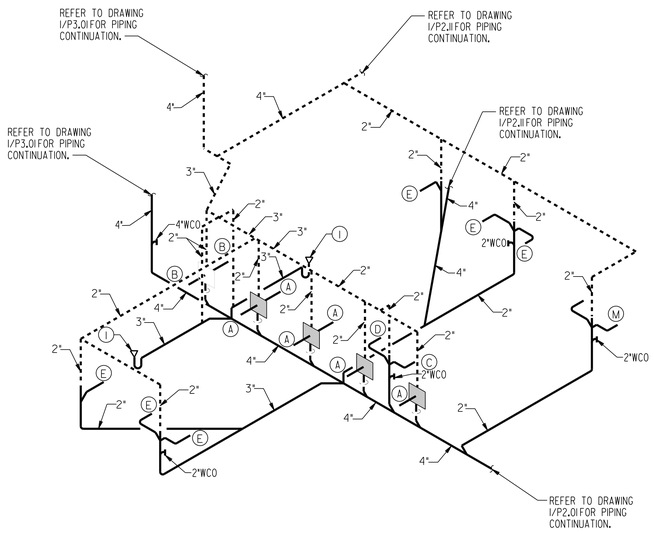
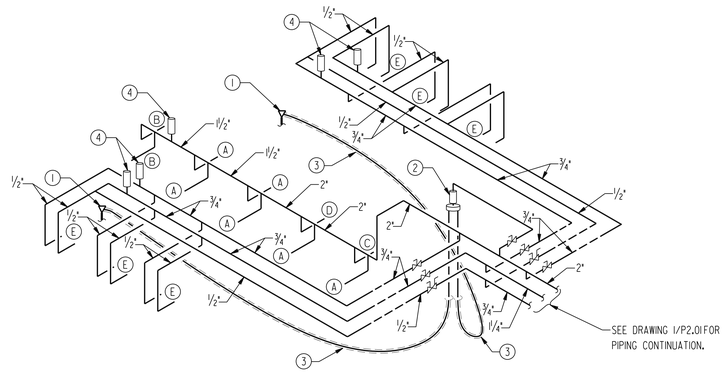
ISSUE
BID SET

SHEET TITLE
LARGE SCALE - FLOOR PLANS - PLUMBING

SHEET NO.
P3.01

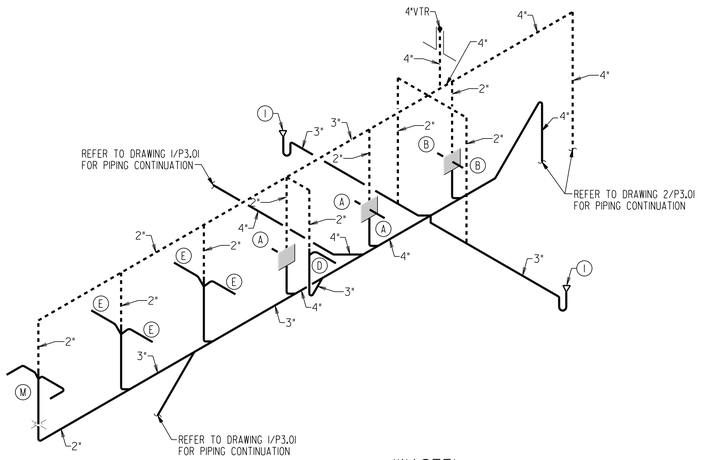


(WASTE)

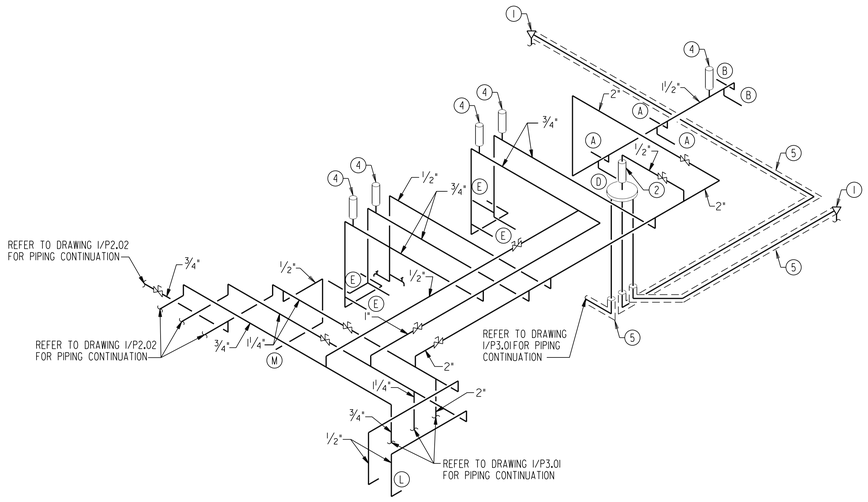


(WATER)

1 RISER Nº 1
NOT TO SCALE

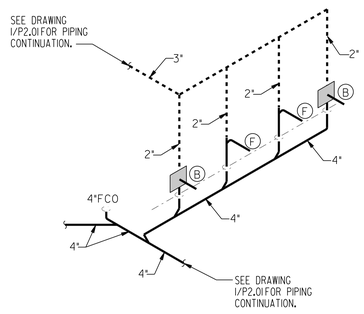


(WASTE)

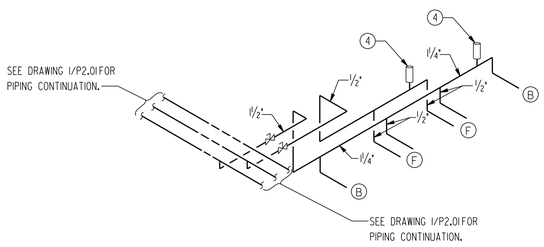


(WATER)

2 RISER Nº 2
NOT TO SCALE



(WASTE)



(WATER)

3 RISER Nº 3
NOT TO SCALE

NOTES: (THIS SHEET ONLY)

1. 3" FLOOR DRAIN TYPE 'A' WITH TRAP PRIMER CONNECTION.
2. MULTIPLE TRAP PRIMER VALVE; REFER TO DETAIL 2/P5.01.
3. ROUTE ½" TYPE 'L' SOFT COPPER PIPING WITH NO JOINTS BELOW FLOOR BETWEEN TRAP PRIMER AND FLOOR DRAIN ENCASED IN FLEXIBLE ELASTOMERIC INSULATION.
4. WATER HAMMER ARRESTOR. REFER TO SPECIFICATIONS.
5. ROUTE ½" TYPE 'L' COPPER PIPING INSULATED FROM TRAP PRIMER TO FLOOR DRAIN.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED No. 031 PROFESSIONAL ENGINEER WILSON H. DENT

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TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
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ATLANTA, GA. 30345

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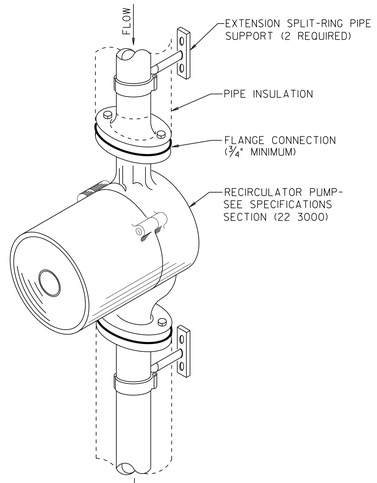
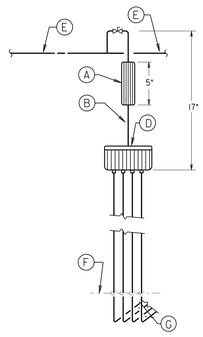
RISERS - PLUMBING

SHEET NO.
P4.01



1 DOMESTIC WATER RECIRCULATING PUMP MOUNTING

NOT TO SCALE

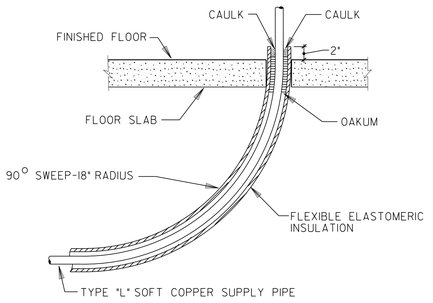


NOTES: (THIS DETAIL ONLY)

- (A) TRAP PRIMER VALVE
- (B) SUPPLY LINE
- (C) -OMITTED-
- (D) DISTRIBUTION UNIT (PROVIDE OPENINGS AS SHOWN ON PLANS)
- (E) DOMESTIC WATER LINE. SEE PLAN FOR SIZE.
- (F) FLOOR LINE
- (G) TO FLOOR DRAIN TRAP PRIMER CONNECTION ON FLOOR DRAIN.

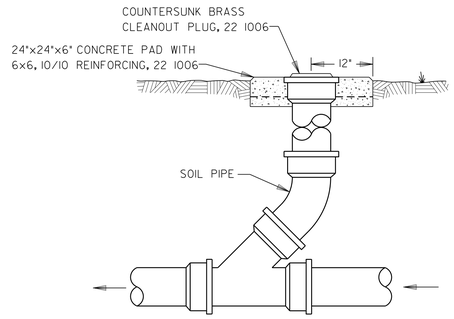
2 MULTIPLE TRAP PRIMER VALVE AND DISTRIBUTION UNIT

NOT TO SCALE



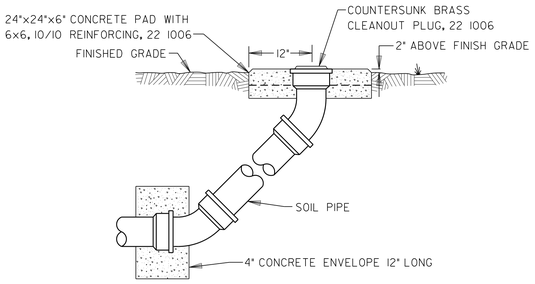
3 PIPING UNDER FLOOR

NOT TO SCALE



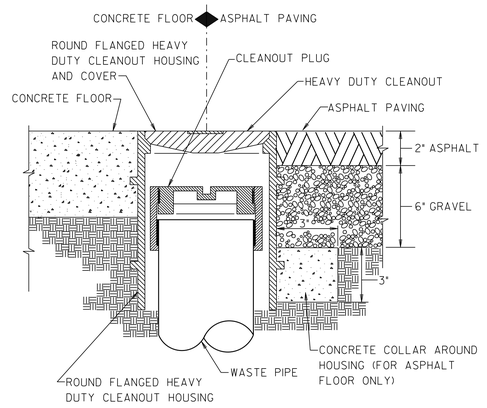
4 INLINE CLEANOUT ON BELOW GROUND/FLOOR MAIN

NOT TO SCALE



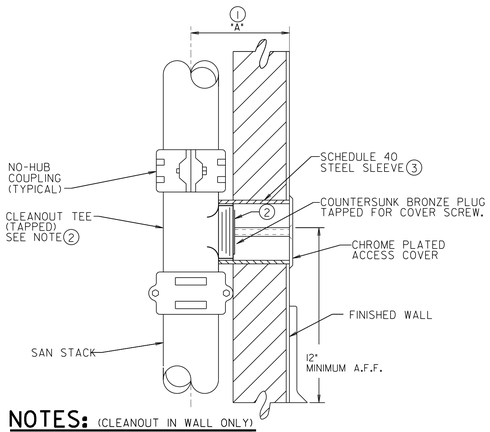
5 CLEANOUT AT END OF BELOW GROUND/FLOOR MAIN

NOT TO SCALE



6 EXTRA HEAVY DUTY FLOOR CLEANOUT (XHCO)

NOT TO SCALE

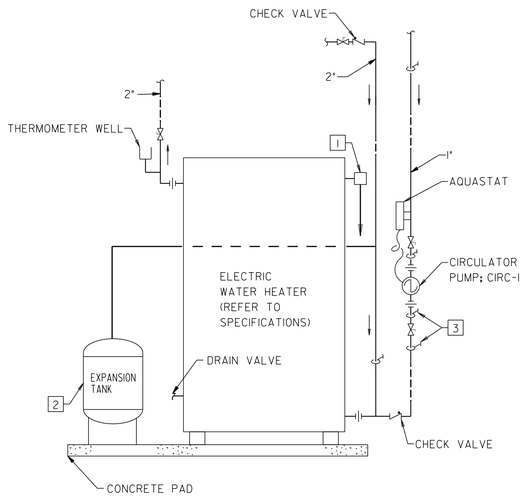


NOTES: (CLEANOUT IN WALL ONLY)

1. "A" DIMENSION SHALL NOT EXCEED 8-INCHES FOR 4" AND LARGER PIPE; AND 4-INCHES FOR 2" AND 3" PIPE.
2. EXTENSIONS FROM PIPE TO CLEANOUT PLUG SHALL BE ONE OF THE FOLLOWING:
   - A.) TAPPED TEE WITH PLUG.(SHOWN)
   - B.) SANITARY TEE WITH TAPPED FERRULE.
   - C.) SANITARY TEE WITH EXTENDED PIPE AND TAPPED FERRULE.
   - D.) COMBINATION WITH EXTENDED PIPE AND TAPPED FERRULE.
3. I.D. OF SLEEVE SHALL BE GREATER THAN THE O.D. OF THE TAPPED TEE OR TAPPED FERRULE, WHICH EVER IS USED.

7 CLEANOUT IN WALL

NOT TO SCALE

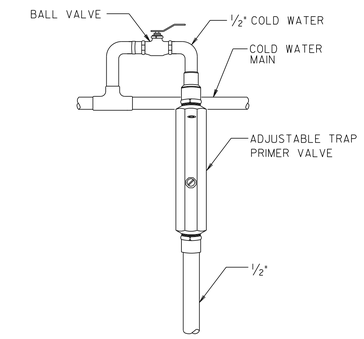


8 ELECTRIC WATER HEATER DETAIL

NOT TO SCALE

NOTES: (WATER HEATER ONLY)

1. ASME PRESSURE/TEMPERATURE RELIEF VALVE. PIPE FULL SIZE TO FLOOR DRAIN.
2. 12.5 GALLON THERMAL EXPANSION TANK. SEE SPECIFICATIONS.
3. EXTENSION SPLIT PIPE CLAMP HANGER.(TYPICAL) REFER TO SPECIFICATION FOR SPACING.



9 TRAP PRIMER DETAIL

NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROOK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

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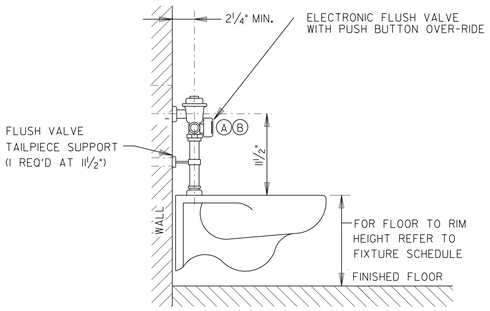
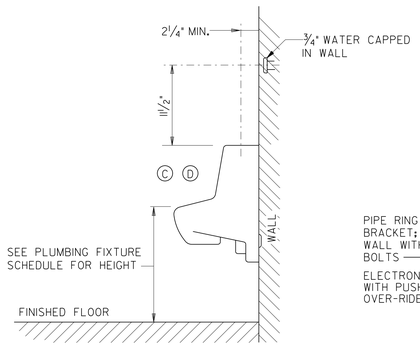
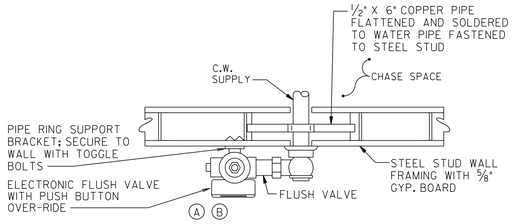


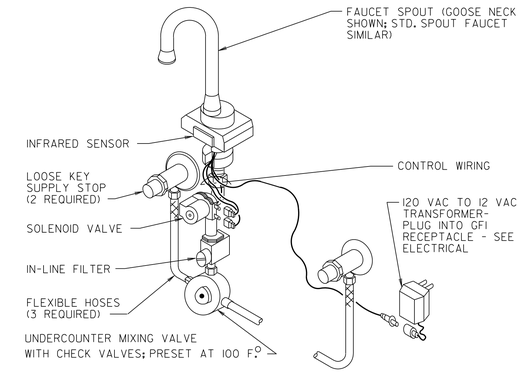
1 FLUSH VALVE SUPPORT
NOT TO SCALE



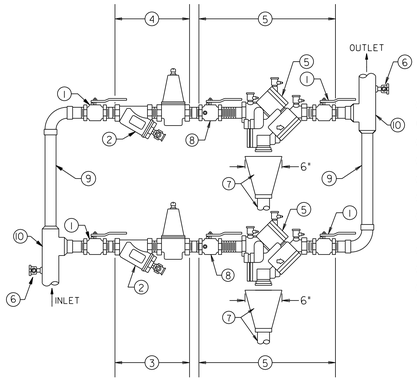
2 WATERLESS URINAL
NOT TO SCALE



3 FLUSH VALVE ANCHOR
NOT TO SCALE



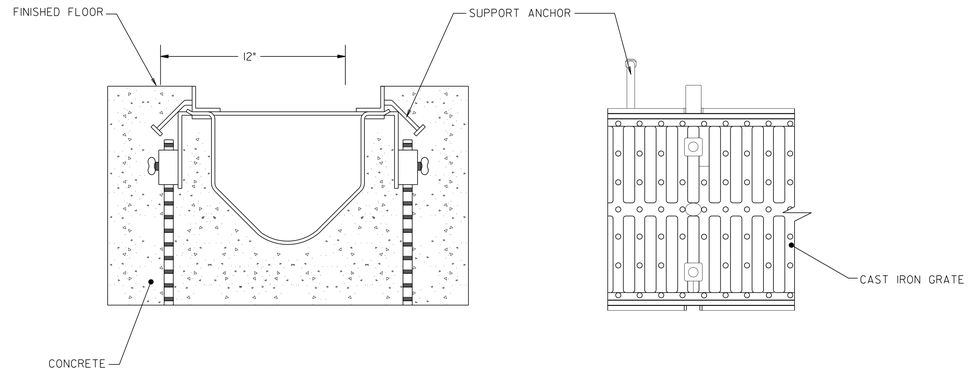
4 ELECTRONIC FAUCET DETAIL
NOT TO SCALE



NOTES: (THIS DETAIL ONLY)

1. LINE SIZE BALL VALVE.
2. STRAINER.
3. 2" WATER PRESSURE REGULATING VALVE ASSEMBLY No.1; SET AT 70 LBS.
4. 2" WATER PRESSURE REGULATING VALVE ASSEMBLY No.2; SET AT 65 LBS.
5. 2" REDUCED PRESSURE ZONE TYPE BACKFLOW PREVENTER ASSEMBLY.
6. GAUGE COCK.
7. AIR GAP CONNECTOR; TYPE 'L' COPPER 6" FUNNEL DRAIN. COMBINE DRAINS AND PIPE DRAIN FULL SIZE TO FLOOR DRAIN IN MECHANICAL ROOM.
8. LINE SIZE BALL VALVE WITH TEST COCK.
9. 2"
10. 3"

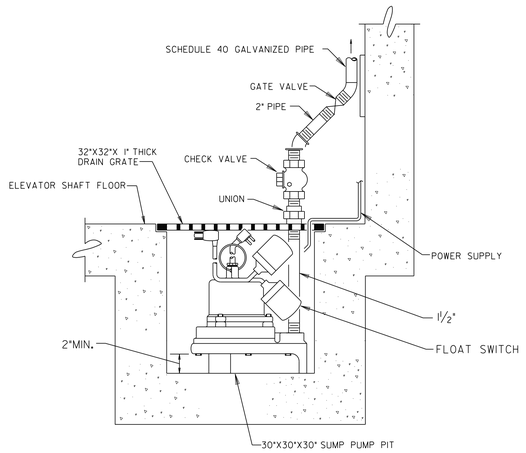
5 WATER PRESSURE REGULATOR AND BACKFLOW PREVENTER DETAIL
NOT TO SCALE



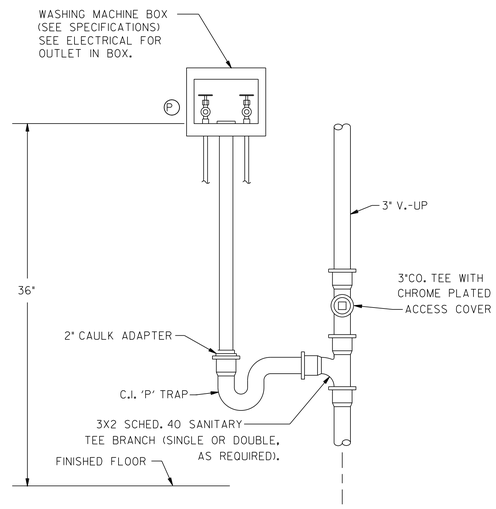
6 TRENCH DRAIN
NOT TO SCALE

7 NOT USED
NOT TO SCALE

8 NOT USED



9 SUMP PUMP DETAIL
NOT TO SCALE



10 WASHING MACHINE BOX
NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1152 CENTURY PLAZA, SUITE 212
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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NOTTINGHAM, BROCK & FENNINGTON, INC.
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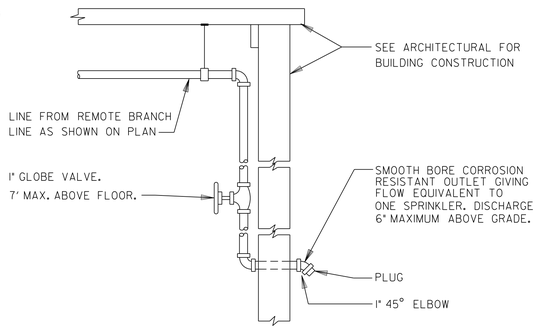
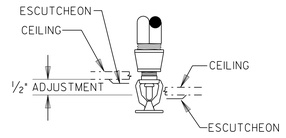
P5.02

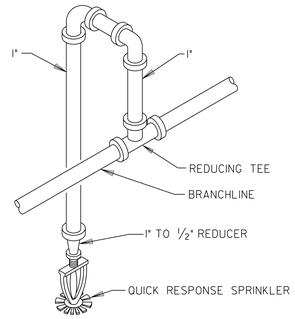


1 INSPECTOR'S TEST CONNECTION
NOT TO SCALE (TYPICAL ELEVATION)



ALL SPRINKLERS WITHIN SAME SPACE SHALL EXTEND THE SAME DISTANCE BELOW THE CEILING.

2 PENDANT SPRINKLER
NOT TO SCALE



3 DETAIL - SPRINKLER RETURN BEND
NOT TO SCALE

FIRE PROTECTION LEGEND

℄	CENTERLINE	A.F.F.	ABOVE FINISHED FLOOR
	2½" HOSE VALVE		WALL HYDRANT
	FLOW SWITCH		SIAMESE CONNECTION
	GAUGE		WATER MOTOR ALARM & TRIM
	SIDEWALL SIAMESE		PIPE SLEEVE
	O.S.& Y VALVE		CHECK VALVE
	ELBOW UP		ELBOW DOWN
	TAMPER SWITCH		POINT OF CONNECTION
	PENDANT SPRINKLER		2X4 LIGHT
	DRY SIDEWALL		DOWN LIGHT
	INSTITUTIONAL PENDANT		2X2 LIGHT
	DRY PENDANT		EXIT LIGHT
	CONCEALED SPRINKLER		SUPPLY DIFFUSER
	SIDEWALL SPRINKLER		EXHAUST GRILLE

GENERAL NOTES:

A. PROVIDE PIPE SLEEVES AS REQUIRED BY THE SPECIFICATIONS AROUND PIPE PENETRATING SMOKE AND FIRE RATED WALLS AND WALLS TO STRUCTURE. SEAL IN ACCORDANCE WITH SPECIFICATIONS.

B. CONTRACTOR SHALL COORDINATE ROUTING OF PIPE MAINS AND BRANCH LINES WITH OTHER TRADES AND THE STRUCTURE IN PREPARING SHOP DRAWINGS, PROVIDING OFFSETS AS REQUIRED TO CONFORM TO SPACE AVAILABLE. INSTALL NO WORK PRIOR TO THIS COORDINATION.

C. SPRINKLERS IN SUSPENDED ACOUSTICAL CEILINGS SHALL BE INSTALLED IN CENTER OF TILE USING RETURN BENDS AS SHOWN IN NFPA 13.

D. PROVIDE DRAINS IN ACCORDANCE WITH NFPA 13 AT ALL LOW POINTS IN PIPING WHEN WATER IS TRAPPED.

E. PIPES TO INDIVIDUAL SPRINKLERS ARE 1" DIAMETER UNLESS NOTED OTHERWISE.

F. ROUTING OF EXPOSED PIPING TO LOW CEILING AREAS SHALL BE COORDINATED WITH THE ARCHITECT. INSTALL NO PIPING PRIOR TO THIS COORDINATION.

G. NO ZONE CONTROL VALVES SHALL BE INSTALLED MORE THAN 10'-0" AFF.

H. SPRINKLERS INSTALLED IN GYPSUM CEILINGS SHALL BE ALIGNED WITH AND CENTERED BETWEEN LIGHT FIXTURES UNLESS OTHERWISE NOTED.

I. SPRINKLERS INSTALLED UNDER DUCTS OR EQUIPMENT SHALL BE LOCATED 6" MINIMUM UNDER THE DUCT OR EQUIPMENT.

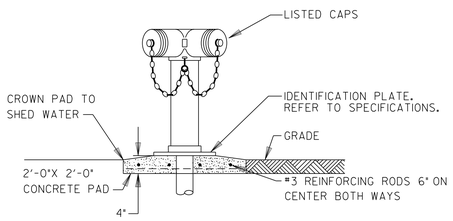
J. MECHANICAL ROOMS MAY CONTAIN DUCT, PIPE OR RACEWAYS. INSTALL NO SPRINKLERS PRIOR TO COORDINATING LOCATION OF SPRINKLERS WITH OTHER TRADES TO AVOID BLOCKING SPRINKLER DISCHARGE.

K. SPRINKLERS SHALL BE INSTALLED UNDER DUCTS OR EQUIPMENT, 48" WIDE OR LARGER, LOCATED MORE THAN 6" AFF.

L. IN ALL STAIRS, SPRINKLERS SHALL BE INSTALLED TO PROTECT THE TOP AND THE LEVEL DISCHARGE.

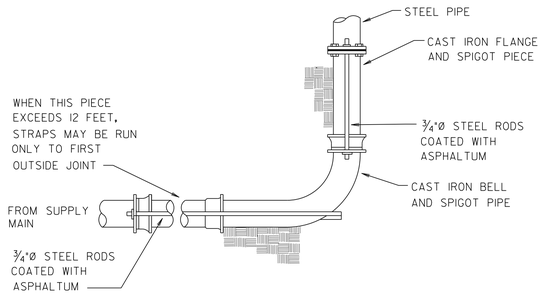
M. ALL EXPOSED STAIRS SHALL HAVE SPRINKLERS INSTALLED TO PROTECT UNDERNEATH. WHERE STAIRS ARE ENCLOSED WITH GYPSUM BOARD, CONCEALED SPRINKLERS SHALL BE INSTALLED.

N. POST INDICATOR VALVE SHALL BE INSTALLED UPSTREAM OF BACKFLOW DEVICE.

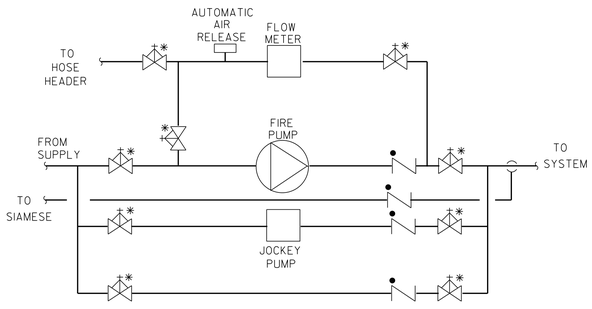


4 DETAIL-SIDEWALK SIAMESE
NOT TO SCALE

PROVIDE BALL DRIP IN PIT w/ REMOVABLE COVER WITH ADEQUATE GRAVEL TO DISSIPATE ALL TRAPPED WATER. UNDERGROUND CHECK VALVE SHALL BE LOCATED IN SAME PIT.

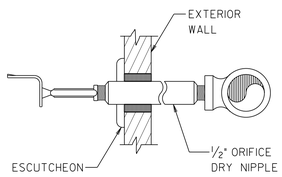


5 INCOMING UNDERGROUND FIRE PROTECTION PIPING
NOT TO SCALE

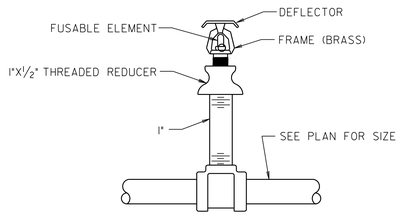


6 FIRE PUMP SCHEMATIC W/METER
NOT TO SCALE

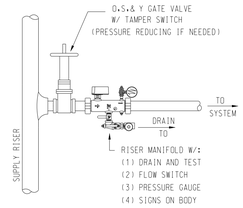
*TAMPER SWITCH



7 DRY SIDEWALL SPRINKLER
NOT TO SCALE



8 UPRIGHT SPRINKLER HEAD
NOT TO SCALE



9 FLOOR CONTROL ASSEMBLY
NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 03012 PROFESSIONAL ENGINEER WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
LEGEND, NOTES & DETAILS - FIRE PROTECTION
SHEET NO.
FP0.01

GENERAL NOTES: (THIS SHEET ONLY)

(A) ALL SPACES SHALL BE PROTECTED BY A SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCIES UNLESS NOTED OTHERWISE.

(B) SPRINKLERS IN GYPSUM CEILINGS SHALL BE ALIGNED WITH LIGHTS AND CENTERED BETWEEN LIGHTS. COORDINATE WITH ARCHITECTURAL CEILING PLANS.

NOTES: (THIS SHEET ONLY)

(1) LOCATE SPRINKLER HEADS AND PIPING IN ACCORDANCE WITH NFPA 13 FOR ORDINARY HAZARD GROUP 1OCCUPANCY.

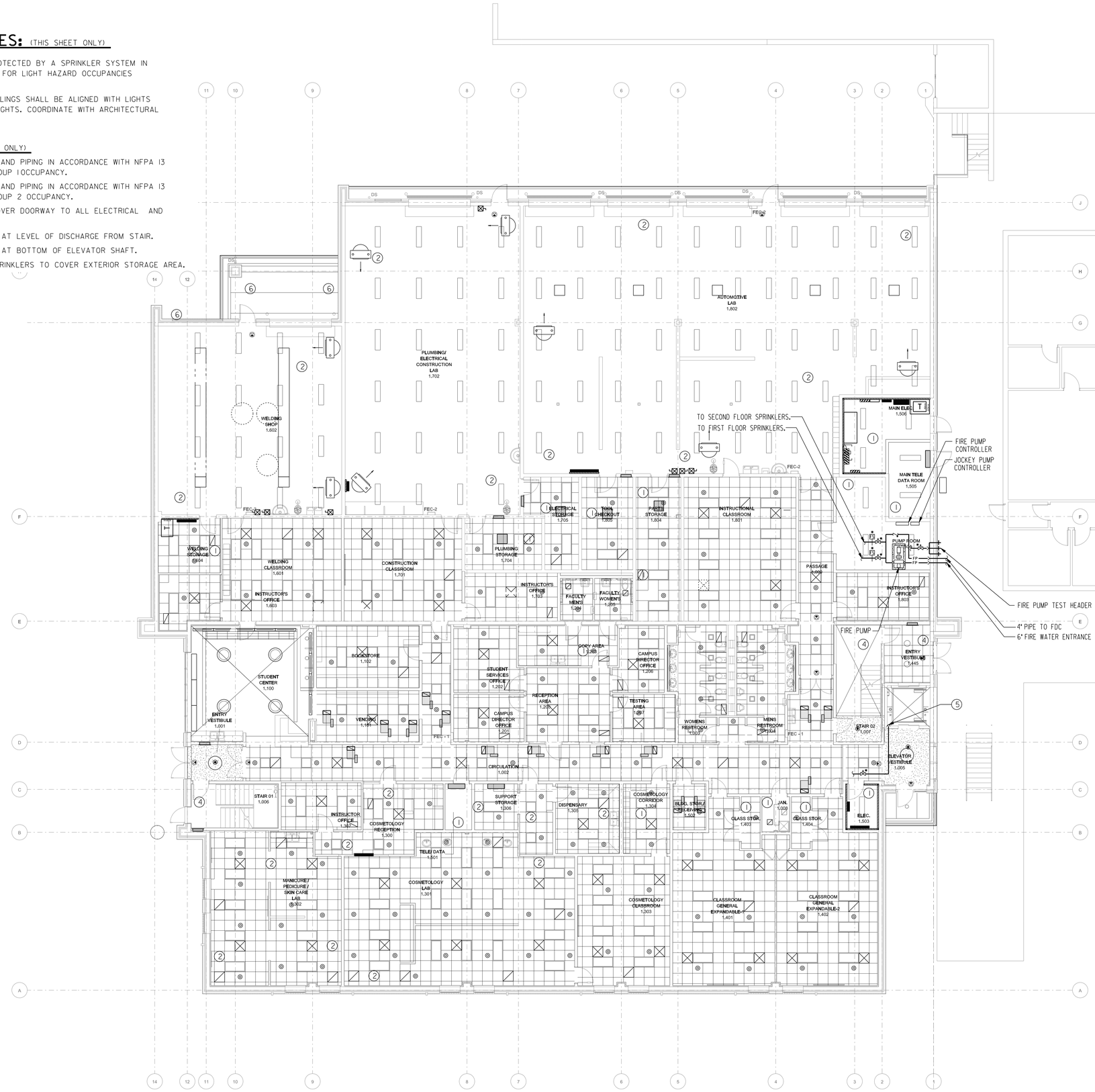
(2) LOCATE SPRINKLER HEADS AND PIPING IN ACCORDANCE WITH NFPA 13 FOR ORDINARY HAZARD GROUP 2 OCCUPANCY.

(3) ROUTE SPRINKLER PIPING OVER DOORWAY TO ALL ELECTRICAL AND DATA ROOMS.

(4) LOCATE SPRINKLER HEADS AT LEVEL OF DISCHARGE FROM STAIR.

(5) LOCATE SPRINKLER HEADS AT BOTTOM OF ELEVATOR SHAFT.

(6) PROVIDE DRY SIDEWALL SPRINKLERS TO COVER EXTERIOR STORAGE AREA.



1 FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"
8 0 4 8 16

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 575
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 03012 PROFESSIONAL ENGINEER WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

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HKS PROJECT NUMBER
12528.000
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SHEET TITLE
FIRST FLOOR PLAN - FIRE PROTECTION

SHEET NO.
FP2.01

GENERAL NOTES: (THIS SHEET ONLY)

(A) ALL SPACES SHALL BE PROTECTED BY A SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCIES UNLESS NOTED OTHERWISE.

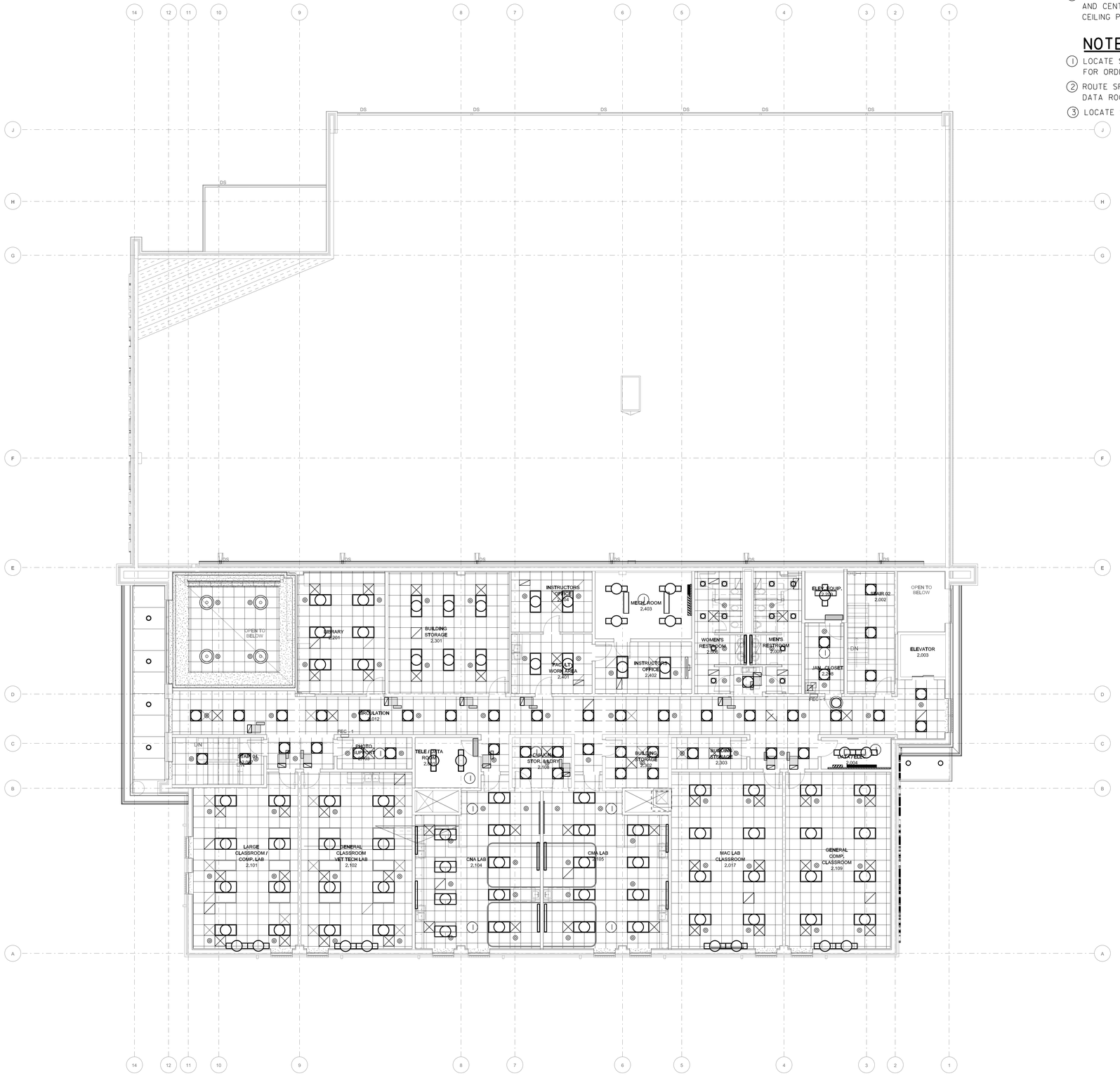
(B) SPRINKLERS IN GYPSUM CEILINGS SHALL BE ALIGNED WITH LIGHTS AND CENTERED BETWEEN LIGHTS. COORDINATE WITH ARCHITECTURAL CEILING PLANS.

NOTES: (THIS SHEET ONLY)

(1) LOCATE SPRINKLER HEADS AND PIPING IN ACCORDANCE WITH NFPA 13 FOR ORDINARY HAZARD GROUP 1OCCUPANCY.

(2) ROUTE SPRINKLER PIPING OVER DOORWAY TO ALL ELECTRICAL AND DATA ROOMS.

(3) LOCATE SPRINKLER HEADS AT TOP LEVEL OF STAIR.



1 SECOND FLOOR PLAN - FIRE PROTECTION

SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED NO. 03[illegible] PROFESSIONAL ENGINEER WILSON H. DENT

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
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FINANCING AND INVESTMENT COMMISION
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270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
SECOND FLOOR PLAN - FIRE PROTECTION

SHEET NO.
FP2.02

LIGHTING FIXTURE SCHEDULE

MARK	LAMPS	VOLT.	FIXTURE TYPE-SEE SPECIFICATIONS	MOUNTING	REMARKS
A	3-32W T8 EQUALS	277	2X4 PARABOLIC FIXTURE TROFFER 3" LVR I8 CELL SEMI SPECULAR LVR LITHONIA 2PM3N DAYBRITE COOPER	RECESSED	INBOARD / OUTBOARD BATTERY PACK AS NEEDED
A2	3-I7W T8 EQUALS	277	2X2 PARABOLIC FIXTURE SAME AS TYPE A FIXTURE	RECESSED	
A3	3-32W T8 EQUALS	277	2X4 PARABOLIC FIXTURE SAME AS TYPE A FIXTURE	RECESSED	NO I/O NO BATTERY
B	2-32W T8 EQUALS	277	WALL TO CEILING STAGGERED SEMI DIFFUSE REFLECTOR PERIMETER PLUS FIXTURE LITHONIA PERIMETER PLUS DAYBRITE, PMC COOPER		
C	I-26W DBT EQUALS	277	IXIDOWN LIGHT WITH ACRYLIC PRISMATIC DIFFUSER HORIZONTAL LAMP POSITION LITHONIA RT5D PT#2 LS9 GOTHAM,PORTFOLIO, WILLIAMS ARCHITECTURAL DETAILS		
D	2-32W T8 EQUALS	277	BED SIDE FIXTURE SGL SOFT GLOW LENS EXTRUDED PRISNS-INSIDE LITECONTROL W-ID-I424T8 DAYBRITE, WILLIAMS COOPER	WALL COORDINATE WITH ARCH FOR HEIGHT	
E	2-32W T8 EQUALS	277	IX4 STANDARD STRIP FIXTURE PROVIDE WIRE GUARD SYMMETRICAL REFLECTOR DAYBRITE T LITHONIA COOPER	CHAIN HANG 8 FT AFF	BATTERY PACK AS NEEDED
F	2-32W T8 EQUALS	277	IX4 WALL BRACKET FIXTURE PRISMATIC HIGH IMPACT ACRYLIC LENS ELECTRONIC BALLAST DAYBRITE WB LITHONIA COOPER	WALL 8 FT AFF	BATTERY PACK AS NEEDED
G	I-32W T8 EQUALS	277	3-I/2"Wx3-3/4"H WALL WASH ASYMMETRIC-THROW SPECULAR REFLECTOR AND PERF TRIM LITHONIA LLMW-I-32T8-SSB DAYBRITE, WILLIAMS COOPER	RECESSED I8-24 INCHES FROM WALL	
H	I-42W TRT EQUALS	277	I4" DECORATIVE DOWN LIGHT FROSTED GLASSPARABOLIC SHADE TOOL LESS ACCESS RELAMPING WILA II055 OMEGA PORTFOLIO	RECESSED	BATTERY PACK AS NEEDED EMERGENCY TEST SWITCH
H2	2-42W TRT EQUALS	277	IO" OPEN CYLINDER OPEN CLEAR SPECULAR REFLECTOR HORIZONTAL LAMP POSITION OMEGA OMIO GOTHAM PORTFOLIO	RECESSED	BATTERY PACK AS NEEDED EMERGENCY TEST SWITCH
J	5-32W T8U EQUALS	277	DECORATIVE PENDANT FIXTURE WHITE INETRIOR WHITE PLASTIC LENS COORDINATE WITH ARCHITECT FOR COLOR LITECONTROL PD38L5OT8 ARCHITECT DETAILS, SCOTT	PENDANT 20FT AFF	
J2	4-32W TCF EQUALS	277	25" DECORATIVE PENDANT FIXTURE A SPUN STEEL DISH WITH ACRYLIC LENS COORDINATE WITH ARCHITECT FOR COLOR LITECONTROL PID33JR4T32 ARCHITECT DETAILS, SCOTT	PENDANT 9.5FT AFF	
K	I-I5W AI5 I-200W A23 EQUALS	I20	2X2 DARK ROOM FIXTURE FILTER AND LENS MIXTURE COORDINATE WITH OWNER FOR FILTER ALCKO SM2058 LIGHTTECH CWCOLE, FAIL-SAFE	RECESSED	PROVIDE CONNECTION TO EXTERIOR IN-USE SIGN
L	I-32W T8 EQUALS BY:	I20	UNDER SHELVING FIXTURE TRIM LOW PROFILE DESIGN 4FT LONG LITHONIA UC842 DAYBRITE COOPER	UNDERCABINET	PROVIDE ROCKER SWITCH
M	2-32W T8 EQUALS BY:	277	2X4 LENSED TROFFER J25 ACRILIC PRISMATIC LENS LITHONIA GT8 DAYBRITE COOPER	RECESSED	
N	I-32W TRT EQUALS BY:	277	8" DIAMETER VERTICAL DOWNLIGHT CLEAR SPECULAR SPLAY, FRESNEL LENS DAYBRITE OMEGA OM8 SERIES LITHONIA COOPER	RECESSED	

LIGHTING FIXTURE SCHEDULE

MARK	LAMPS	VOLT.	FIXTURE TYPE-SEE SPECIFICATIONS	MOUNTING	REMARKS
EAI	I-42W TRT EQUALS	I20	HALF CILINDER FULL CUT OFF FIXTURE CUSTOM MATCH COLOR AF-I, REF A3.4O IMPACT RESISTANT I00% DOWN LITHONIA WSR GARDCO II4 MCGRAW IMPACT ELITE WALL	WALL 9 FT AFF	
EA2	2-42W TRT EQUALS	I20	HALF CYLINDER FULL CUT OFF FIXTURE CUSTOM MATCH COLOR AF-I, REF A3.4O IMPACT RESISTANT I00% DOWN LITHONIA WSR GARDCO II4 MCGRAW IMPACT ELITE WALL	WALL 9 FT AFF	
EB	I-250w MH EQUALS BY:	277	DIECAST ALUMINUM FLOOD LIGHT TEMPER GLASS LENS WET LOCATION LISTED LITHONIA ASFI GARDCO DFI2 WALL SERIES MCGRAW IMPACT ELITE WALL	WALL	REMOTE
XL	LED EQUALS BY:	I20	SINGLE FACE EDGE LIT SIGHN TO READ "DARK ROOM IN USE" SWITCHED RED COLOR LIGHT CHLORIDE CXLAIRA EXITRONIX, COOPER, LITHONIA	UNIVERSAL	INTEGRAL BATTERY
XI	LED EQUALS BY:	277	SINGLE FACE EDGE LIT EXIT SIGN BRUSHED ALUMINUM HOUSING CHLORIDE SYMMETRY LITHONIA PRECISE, EXITRONIX 900 LIGHTGUARD, DUAL LITE, SURE LITES	UNIVERSAL	INTEGRAL BATTERY
X2	LED EQUALS BY:	277	DOUBLE FACE EDGE LIT EXIT SIGN BRUSHED ALUMINUM HOUSING CHLORIDE SYMMETRY LITHONIA PRECISE SERIES LIGHTGUARD, DUALITE, SURE LITES	UNIVERSAL	INTEGRAL BATTERY
XA	LED EQUALS BY:	277	THERMOPLASTIC EXIT SIGN BLACK COLOR HOUSING EMERGENCY SELF TESTING BATTERY CHLORIDE CXL LIGHTGUARD, DUALITE, SURE LITES LITHONIA LQM	UNIVERSAL	INTEGRAL BATTERY
Z	2-9W EQUALS BY:	277	THERMOPLASTIC EGRESS FIXTURE BLACK COLOR HOUSING EMERGENCY SELF TESTING BATTERY MCPHILBEN LIGHTGUARD, DUALITE, SURE LITES LITHONIA ELM2 END OF SECTION	UNIVERSAL	INTEGRAL BATTERY

ELECTRICAL LEGEND

LIGHTING FIXTURES

	FLUORESCENT ON "NORMAL" POWER		(LIFE SAFETY EGRESS FIXTURE)
			(UNSWITCHED NIGHT LIGHT FIXTURE)
			(WITH INTEGRAL BATTERY PACK)
	CEILING MOUNTED FIXTURE		EXIT LIGHT (ARROWS AS SHOWN)
	WALL MOUNTED FIXTURE		EMERGENCY BATTERY WALL-PACK
	TRACK LIGHTS: QUANTITY OF HEADS AS SHOWN		
	POLE MOUNTED FIXTURE		

LIGHTING CONTROL

S	SINGLE POLE SWITCH		RELAY PANEL
S3	THREE WAY SWITCH	U	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR AND RELAY
S4	FOUR WAY SWITCH		
SD	DIMMER SWITCH	I/I	CEILING/WALL MOUNTED INFRARED OCCUPANCY SENSOR AND RELAY
SK	KEYED SWITCH		
SP	"P" INDICATES PILOT LIGHT	UI	CEILING MOUNTED COMBINATION INFRARED/ ULTRASONIC OCCUPANCY SENSOR AND RELAY
SI	WALL MOUNTED SWITCH INFRARED OCCUPANCY SENSOR	SP	SWITCHING PHOTOCELL (INTERIOR TYPE) F.C. NOTED
SL	LOW VOLTAGE SWITCH	PE	EXTERIOR TYPE PHOTO ELECTRIC SWITCH

RECEPTACLES

	DUPLEX - NORMAL	EWC	ELECTRIC WATER COOLER OUTLET
	QUADRAPLEX - NORMAL	WP	"WHILE IN USE" WEATHER PROOF OUTLET
	GFI DUPLEX - NORMAL	AC	HORIZONTALLY MOUNTED ABOVE COUNTER
	GFI QUADRAPLEX - NORMAL		SPECIAL - TYPE NOTED OR SHOWN
	FLOOR OUTLET DUPLEX - NORMAL		CEILING SPECIAL - TYPE NOTED OR SHOWN
	FLOOR OUTLET QUADRAPLEX - NORMAL		MULTI-OUTLET ASSEMBLY
	CEILING OUTLET DUPLEX - NORMAL	TV	TV RECEPTACLE. SEE I0/E7.0I FOR DETAILS. COORDINATE HEIGHT WITH ARCHITECT.

CIRCUITS

	ONE CROSSMARK PER WIRE (3 WIRE UNLESS SHOWN)		RACEWAY EXPOSED
			FLEXIBLE RACEWAY
	RACEWAY CONCEALED IN CEILING OR WALL		CONDUIT UP
			CONDUIT DOWN
	RACEWAY IN GROUND, SLAB, OR UNDER FLOOR		CAP
			CONNECTION TO EQUIPMENT
	HOMERUN- ONE ARROW PER CIRCUIT		

GENERAL EQUIPMENT

	PANELBOARD-250 VAC OR LESS SURFACE MOUNTED		BACKBOARD
	PANELBOARD-250 VAC OR LESS RECESSED		SURGE PROTECTIVE DEVICE
		J	JUNCTION BOX - WALL/CEILING/FLOOR
	PANELBOARD-OVER 250 VAC SURFACE MOUNTED	M	MOTOR
		EF	EXHAUST FAN
	PANELBOARD-OVER 250 VAC RECESSED	CT	COMBINATION STARTER AND DISCONNECT
		MS	MANUAL STARTER AND MOTOR RATED SWITCH
T	TRANSFORMER	CT	CABLE TRAY
			EMERGENCY OR ADA PUSHBUTTON
			ENCLOSED CIRCUIT BREAKER
F **/**/*	DISCONNECT SWITCH: "F" IF FUSED FRAME AMPS/POLES/NEMA TYPE FUSE PER MANUFACTURERS RECOMMENDATIONS		ENCLOSED BREAKER-RECESSED IN WALL
		J J J J	ARRINGTON LOOP FOR DATA CABLE

FIRE PROTECTION EQUIPMENT

FAP	FIRE ALARM PANEL		DUCT MOUNTED SMOKE DETECTOR
FAA	FIRE ALARM ANNUNCIATOR	S / SH	SMOKE DETECTOR: CEILING / WALL
F	MANUAL PULL STATION	H / HH	HEAT DETECTOR: CEILING / WALL
F / F	AUDIO/VISUAL ALARM: CEILING/WALL	F	WATER FLOW SWITCH
V / V	VISUAL ALARM: CEILING/WALL	T	WATER TAMPER SWITCH
S / S	SPEAKER/VISUAL ALARM: CEILING/WALL	H	DOOR HOLDER
F F	BEAM DETECTOR	F	FIREMAN'S PHONE OUTLET

COMMUNICATIONS

*	VOICE OUTLET, QUANTITY OF JACKS AS NOTED		FIBER OUTLET
*	DATA OUTLET, QUANTITY OF JACKS AS NOTED	TV	TELEVISION OUTLET. COORDINATE WITH ARCHITECT
/	COMBINATION VOICE/DATA OUTLET, QUANTITY OF VOICE/DATA JACKS AS NOTED	*	FLOOR DATA OUTLET, QUANTITY OF JACKS AS NOTED
*	FLOOR VOICE OUTLET, QUANTITY OF JACKS AS NOTED	*/*	FLOOR COMBINATION VOICE/DATA OUTLET, QUANTITY OF JACKS AS NOTED

NOTE: UNLESS DATA OUTLET HAS A NUMBER ADJACENT TO IT PROVIDE I DATA PORT.

LIGHTNING PROTECTION AND GROUNDING

G	GROUNDING CONDUCTOR- UNDER SLAB OR BELOW GRADE	G	GROUNDING CONDUCTOR- CONCEALED IN ROOF OR WALLS
	GROUND ROD - C IF CHEMICAL	G	GROUNDING CONDUCTOR- EXPOSED
	GROUND CONNECTION (SCHEMATIC)		AIR TERMINAL
		G	GROUNDING PLATE

SECURITY - ACCESS CONTROL LEGEND

C	CARD READER ONLY	BACKBOX @ 48" W/ I" CONDUIT TO ABOVE CEILING
ES	ELECTRIC STRIKE	PROVIDE PATHWAY FROM STRIKE TO ABOVE CEILING
PS	DOOR POSITION SENSOR	PROVIDE BOX IN TOP OF DOOR JAMB WITH I" CONDUIT TO ABOVE CEILING
	BACKBOX FOR SECURITY CAMERA	2 GANG BACKBOX 6" BELOW CEILING WITH I" CONDUIT TO ABOVE CEILING

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 2I2
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & PENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
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OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
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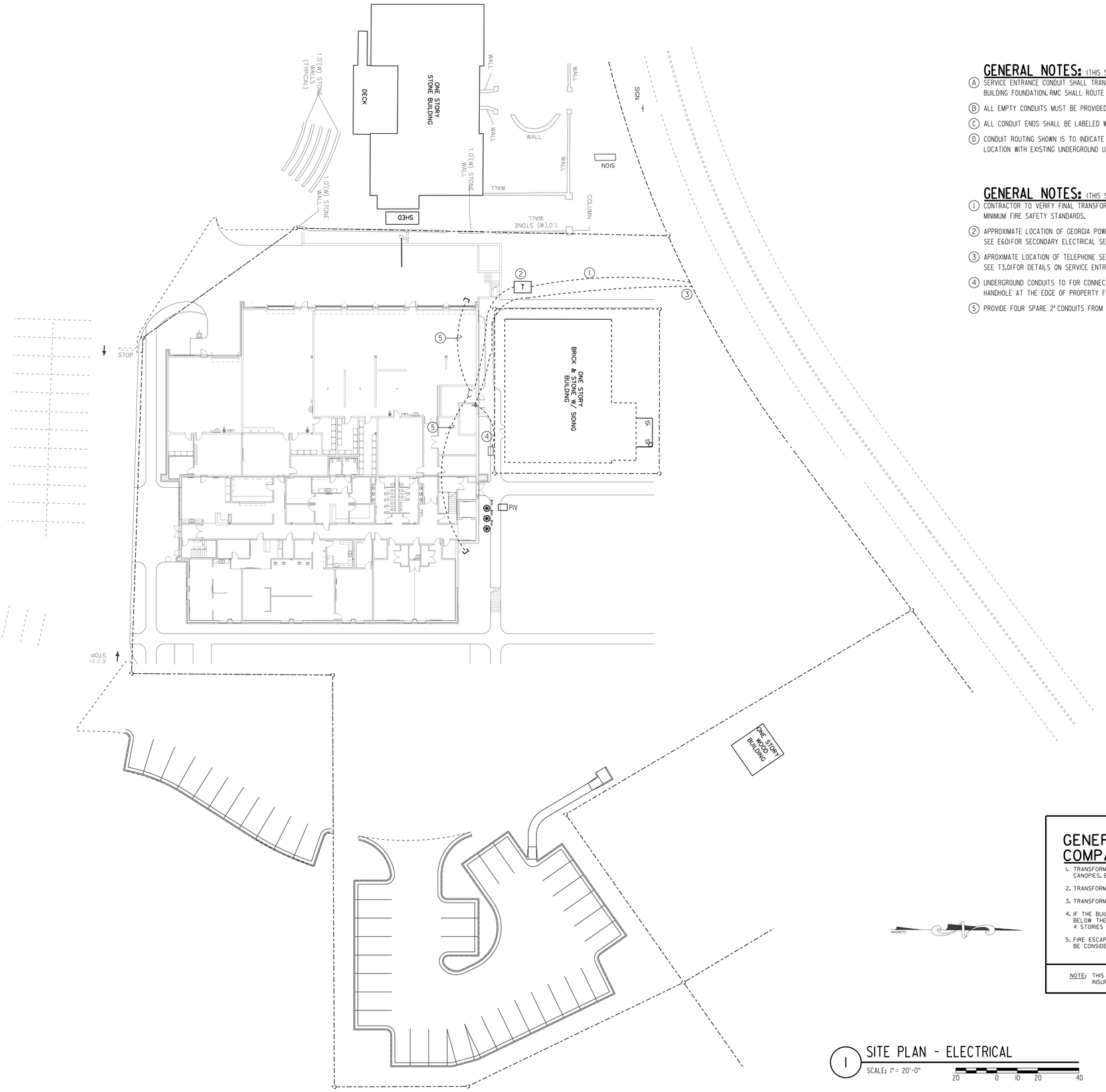
SHEET TITLE
LEGEND & FIXTURE SCHEDULE - ELECTRICAL

SHEET NO.
E0.01



GENERAL NOTES: (THIS SHEET ONLY)

(A) SERVICE ENTRANCE CONDUIT SHALL TRANSITION FROM PVC TO RMC 10 FEET FROM BUILDING FOUNDATION. RMC SHALL ROUTE FROM THAT POINT TO THE MAIN ELECTRICAL ROOM.

(B) ALL EMPTY CONDUITS MUST BE PROVIDED WITH PULLSTRING SECURED AT EACH END.

(C) ALL CONDUIT ENDS SHALL BE LABELED WITH DESTINATION.

(D) CONDUIT ROUTING SHOWN IS TO INDICATE GENERAL DIRECTION AND LENGTH ONLY. COORDINATE EXACT LOCATION WITH EXISTING UNDERGROUND UTILITIES. REPAIR AND PATCH ANY DAMAGED CONCRETE.

GENERAL NOTES: (THIS SHEET ONLY)

(1) CONTRACTOR TO VERIFY FINAL TRANSFORMER LOCATION TO MEET CHAPTER 120-3-3 OF THE STATE MINIMUM FIRE SAFETY STANDARDS.

(2) APPROXIMATE LOCATION OF GEORGIA POWER TRANSFORMER. COORDINATE SERVICE WITH DAVID KING. SEE E601FOR SECONDARY ELECTRICAL SERVICE.

(3) APROXIMATE LOCATION OF TELEPHONE SERVICE. COORDINATE WITH SERVICE PROVIDER FOR EXACT LOCATION. SEE T3.01FOR DETAILS ON SERVICE ENTRANCE CONDUITS.

(4) UNDERGROUND CONDUITS TO FOR CONNECTION TO EXISTING ADULT ED. BUILDING. PROVIDE A NEW HANDHOLE AT THE EDGE OF PROPERTY FOR FUTURE CONNECTION. SEE T3.01FOR DETAILS.

(5) PROVIDE FOUR SPARE 2" CONDUITS FROM ELECTRICAL ROOM TO EXTERIOR.

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS ON OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE: THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA ARTICLE 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.

1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"
20 0 10 20 40

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

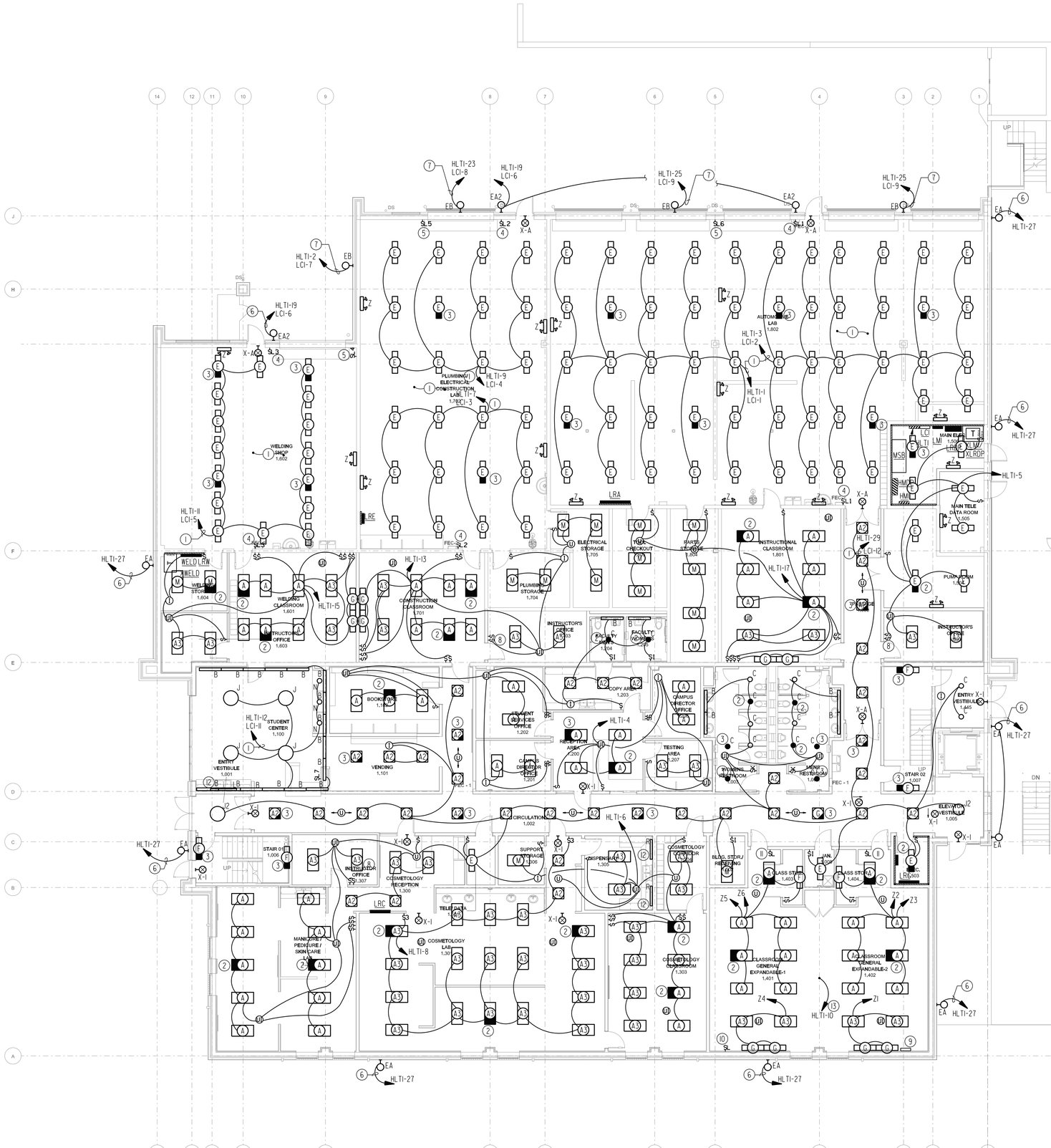
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
SITE PLAN - ELECTRICAL

SHEET NO.
E1.01

PLOT DATE:
9/16/2009 11:19:09 PM TEMPLATE VERSION#: 2.1.0.20090908



LIGHTING CONTACTOR LC1

AUTOMATIC CONTROL BY	MANUAL CONTROL BY	BUTTON	RELAY #	CIRCUIT NUMBER	SERVING	NOTES
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL1	1	1	HLT1-1	SOUTH AUTO LAB	
TIME CLOCK/PHOTOCELL			2	HLT1-3	NORTH AUTO LAB	
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL2	1	3	HLT1-7	PLUMBING LAB	
TIME CLOCK/PHOTOCELL			4	HLT1-9	ELECTRICAL LAB	
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL3	1	5	HLT1-11	WELDING LAB	
TIME CLOCK/PHOTOCELL			6	HLT1-19	EXTERIOR WELDING SHOP	
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL4	1	6	HLT1-19	EXTERIOR WEST AREA	
TIME CLOCK/PHOTOCELL			7	HLT1-2	EXTERIOR WELDING SHOP	
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL5	1	6	HLT1-29	EXTERIOR WEST AREA	
TIME CLOCK/PHOTOCELL			8	HLT1-23	EXTERIOR PLUM/ELEC SHOP	
TIME CLOCK/PHOTOCELL	TWO BUTTON SWITCH SL6	1	6	HLT1-19	EXTERIOR WEST AREA	
TIME CLOCK/PHOTOCELL			9	HLT1-25	EXTERIOR AUTOMOTIVE SHOP	
TIME CLOCK/PHOTOCELL	3 BUTTON SWITCH SL7	1	10	HLT1-27	EXTERIOR BUILDING LIGHTS	
TIME CLOCK/PHOTOCELL			11	HLT1-12	STUDENT CENTER	
TIME CLOCK/PHOTOCELL			12	HLT1-29	CORRIDORS	
TIME CLOCK/PHOTOCELL	KEY SWITCH	1	13	HLT1-31	SECOND FLOOR CORRIDOR	
TIME CLOCK/PHOTOCELL			14		SPARE	
TIME CLOCK/PHOTOCELL			15		SPARE	
TIME CLOCK/PHOTOCELL			16		SPARE	

NOTES:
GENERAL: PROVIDE JUMBO STAINLESS STEEL WALL COVES FOR LOW VOLTAGE TO MATCH LINE VOLTAGE SWITCHES

GENERAL NOTES: (THIS SHEET ONLY)

(A) PROVIDE BATTERY BALLAST FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS. POWER FROM UNSWITCHED CIRCUIT FEEDING THE LIGHT FIXTURES IN THE AREA.

(B) CONSOLIDATION OF HOME RUNS IS ACCEPTABLE UP TO THREE CIRCUITS. PROVIDE DEDICATED NEUTRALS.

(C) CLASSROOMS AND OFFICES HAVE BEEN PROVIDED WITH OCCUPANCY SENSORS AND LOW VOLTAGE SWITCHES. SEE E6.02 FOR DETAILS. LOW VOLTAGE SWITCH IS TO CONTROL LIGHTS WITHIN ROOM. OCCUPANCY SENSORS SHALL BE SET FOR MAXIMUM DELAY TO TURN LIGHTS OFF.

(D) PROVIDE SWITCHED EMERGENCY FIXTURES WITH AN EXTRA UNSWITCHED HOT FROM CIRCUIT FEEDING LIGHT FIXTURES IN THE AREA. UPON POWER LOSS, LIGHTS SHALL TURN ON REGARDLESS OF SWITCH POSITION.

(E) FIXTURES IN GENERAL AREAS ARE TO BE CONTROLLED BY OCCUPANCY SENSORS.

(F) WHEN A SWITCH IS SHOWN ADJACENT TO ANOTHER PROVIDE MULTIPLE GANG BOX AND ONE FACE PLATE TO COMBINE THEM. BRUSHED ALUMINUM FACE PLATES IN JUMBO SIZE ARE TO BE PROVIDED.

NOTES: (THIS SHEET ONLY)

(1) AREA CONTROLLED BY LIGHTING CONTACTOR.

(2) SWITCHED EMERGENCY FIXTURE. PROVIDE UNSWITCHED HOT FOR BATTERY CHARGING AND POWER LOSS SENSING. PROVIDE EMERGENCY BATTERY BALLAST.

(3) UNSWITCHED EMERGENCY NIGHT LIGHT. PROVIDE EMERGENCY BATTERY BALLAST.

(4) TWO BUTTON LOW VOLTAGE SWITCH TO CONTROL DIFFERENT SHOP AREAS.

(5) LOW VOLTAGE SWITCH TO CONTROL EXTERIOR "EB" AND "EA2" FIXTURES. PROVIDE NAME PLATE OVER SWITCH TO READ "EXTERIOR SPOT LIGHT" FIXTURE IS TO REMAIN ON FOR A MAXIMUM OF TWO HOURS.

(6) EGRESS EXTERIOR LIGHTING CONTROLLED BY TIMECLOCK/PHOTOCELL VIA LIGHTING CONTACTOR. FIXTURE TO TURN "ON" AUTOMATICALLY IN THE CASE OF POWER LOSS. MOUNT REMOTE BATTERY BALLAST INSIDE AN ACCESSIBLE CONCEALED LOCATION.

(7) SPOT LIGHT CONTROLLED AUTOMATICALLY BY TIMECLOCK OR MANUALLY BY LOW VOLTAGE SWITCH.

(8) TWO SWITCHES, EACH TO CONTROL A SEPARATE FIXTURE.

(9) LIGHTING CONTROL PANEL. BASIS OF DESIGN IS THE GRAFIK EYE QS SYSTEM. DESIGN INTENT IS TO CONTROL LIGHTS FROM EITHER PLACE IF DIVIDER IS OPEN OR TO CONTROL EACH ROOM INDIVIDUALLY IF DIVIDER IS CLOSED. EQUALS BY LITHONIA, LEVITON, DOUGLAS.

(10) 3 BUTTON LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL TO CONTROL INBOARD/OUTBOARD GENERAL LIGHTING AND WHITE BOARD LIGHTS.

(11) 2 BUTTON ENTERY CONTROLLER LOW VOLTAGE SWITCH TO CONTROL GENERAL LIGHTING.

(12) POWER FROM CLOSEST UNSWITCHED SEPARATE CIRCUIT.

(13) LIGHTING CIRCUIT TO POWER FIXTURES IN GENERAL CLASSROOM AREA. FIXTURES ARE TO BE CONTROLLED SEPARATELY. SEE E6.02 FOR DETAILS.

1 FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 575
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

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PROJECT #: TCSG-236

OWNER
GEORGIA STATE
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USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
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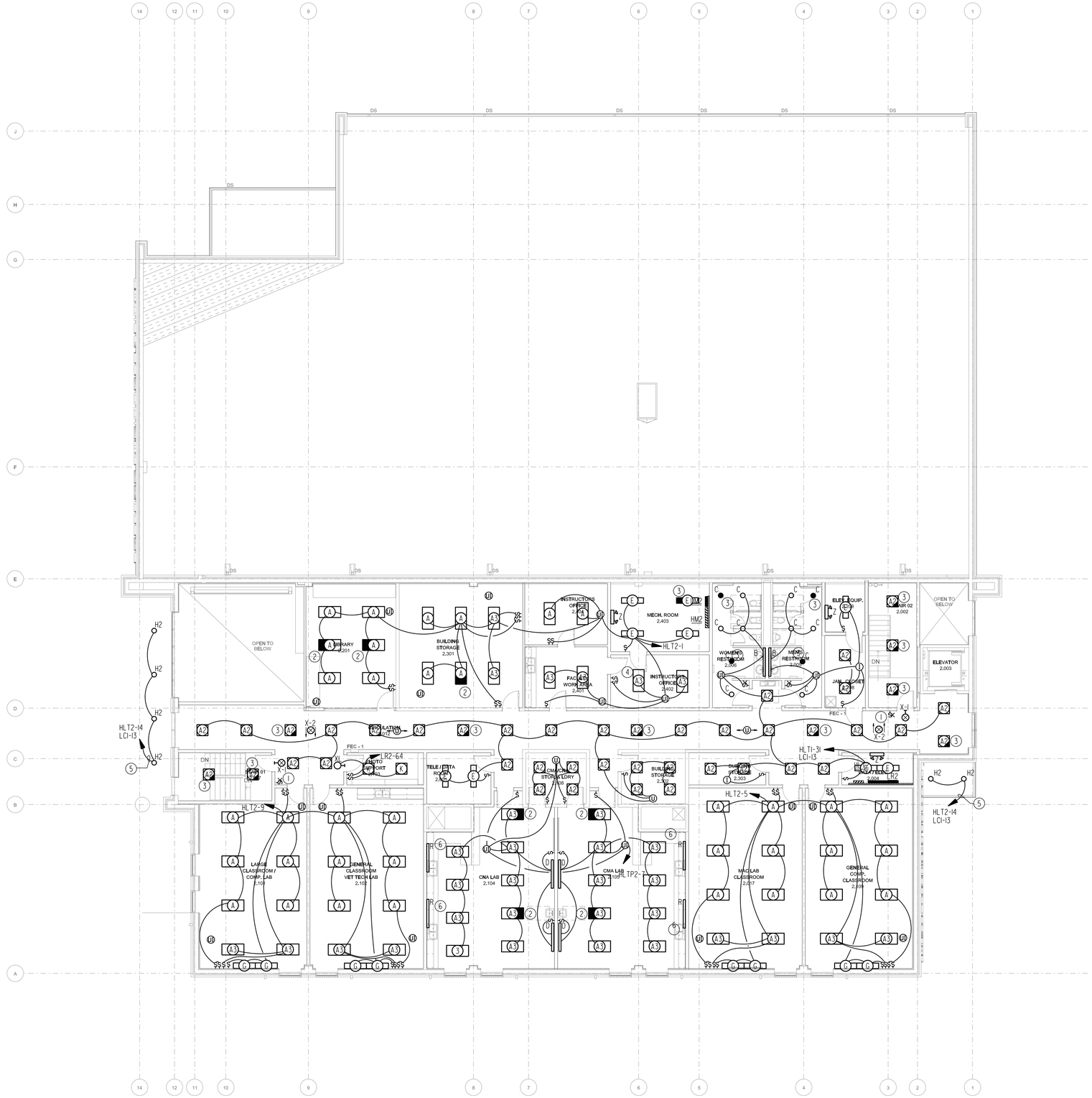
KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
FIRST FLOOR PLAN - LIGHTING

SHEET NO.
E2.01



1 SECOND FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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N

GENERAL NOTES: (THIS SHEET ONLY)

(A) PROVIDE BATTERY BALLAST FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS.

(B) CONSOLIDATION OF HOME RUNS IS ACCEPTABLE UP TO THREE CIRCUITS. PROVIDE DEDICATED NEUTRALS.

(C) EMERGENCY/SECURITY FIXTURES AND EXIT SIGNS TO BE POWERED FROM HLT2.

(D) FIXTURES IN GENERAL CORRIDOR AREAS ARE TO BE CONTROLLED BY OCCUPANCY SENSORS.

(E) PROVIDE SWITCHED EMERGENCY FIXTURES WITH A SWITCHED AND AN UNSWITCHED HOT FOR SENSING POWER LOSS. UPON POWER LOSS LIGHTS SHALL TURN ON REGARDLESS OF SWITCH POSITION.

(F) WHEN A SWITCH IS SHOWN ADJACENT TO ANOTHER PROVIDE MULTIPLE GANG BOX AND ONE FACE PLATE TO COMBINE THEM. BRUSHED ALUMINUM FACE PLATES IN JUMBO SIZE ARE TO BE PROVIDED.

NOTES: (THIS SHEET ONLY)

(1) KEY SWITCH TO CONTROL CORRIDOR LIGHTS.

(2) SWITCHED EMERGENCY FIXTURE. PROVIDE UNSWITCHED HOT FOR BATTERY CHARGING AND POWER LOSS SENSING. PROVIDE EMERGENCY BATTERY BALLAST.

(3) UNSWITCHED EMERGENCY NIGHT LIGHT. PROVIDE EMERGENCY BATTERY BALLAST.

(4) TWO SWITCHES, EACH TO CONTROL A SEPARATE FIXTURE.

(5) EXTERIOR LIGHTING CONTROLLED BY LIGHTING CONTACTOR.

(6) POWER FROM CLOSEST UNSWITCHED RECEPTACLE CIRCUIT.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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NOTTINGHAM, BROOK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

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TECHNICAL COLLEGE SYSTEM OF GEORGIA
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KEY PLAN

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HKS PROJECT NUMBER
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DATE
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ISSUE
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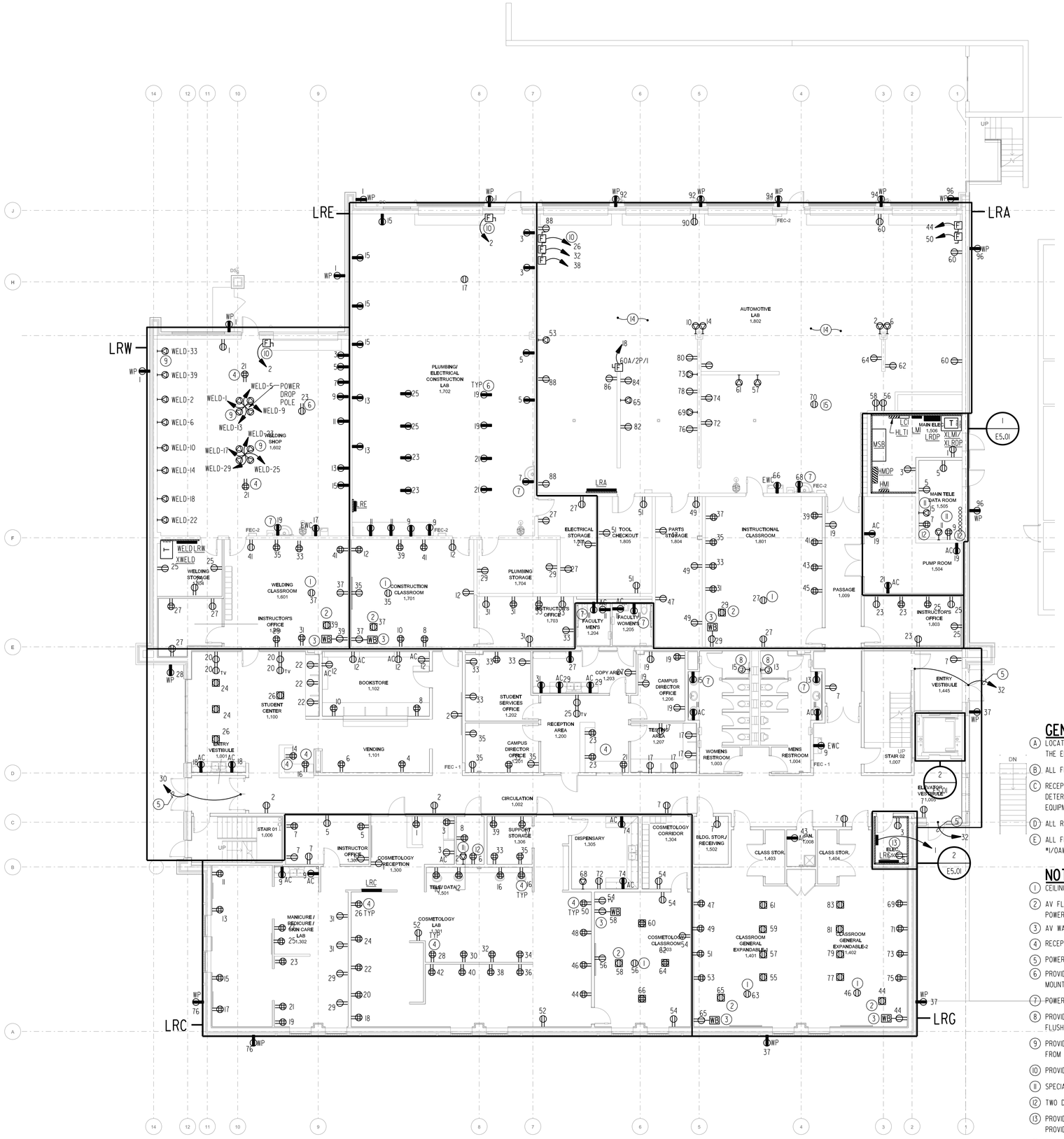
SHEET TITLE
SECOND FLOOR PLAN - LIGHTING

SHEET NO.
E2.02



I FIRST FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY)

A. LOCATE ALL DATA AND RECEPTACLE OUTLETS PER ARCHITECTURAL CASEWORK ELEVATIONS. DO NOT DIMENSION OUTLETS FROM THE ELECTRICAL SHEETS.

B. ALL FLOOR BOX LOCATIONs SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN TO ACCOUNT FOR ANY FURNITURE CHANGES.

C. RECEPTACLES ARE FED BY PANEL WITHIN THE MARKED AREA UNLESS OTHERWISE NOTED. NUMBER ADJACENT TO RECEPTACLE DETERMINES CIRCUIT NUMBER. CONSOLIDATION OF HOME RUNS IS ACCEPTABLE UP TO THREE CIRCUITS. PROVIDE DEDICATED NEUTRALS. EQUIPMENT GROUND MAY BE SHARED.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A WATER SOURCE SHALL BE GFI.

E. ALL FLAMMABLE LIQUID STORAGE CABINETS SHALL BE BONDED TO NEAREST BUILDING GROUNDING ELECTRODE CONDUCTOR WITH #1/0AWG COPPER.

NOTES: (THIS SHEET ONLY)

1. CEILING MOUNTED RECEPTACLE TO POWER PROJECTOR.
2. AV FLOORBOX PROVIDED BY ELECTRICAL CONTRACTOR (EC). PROVIDE AV INFRASTRUCTURE AS SHOWN ON DETAIL 2/E7.01. PROVIDE POWER OUTLET WITHIN AV FLOORBOX.
3. AV WALLBOX PROVIDED BY EC. PROVIDE AV INFRASTRUCTURE AS SHOWN ON DETAIL 8/E7.01. RECEPTACLE WITHIN AV WALLBOX.
4. RECEPTACLE WITHIN CASEWORK. COORDINATE WITH ARCHITECT.
5. POWER CONNECTION TO ADA DOOR OPENER AND DOOR SECURITY.
6. PROVIDE FLOOR MOUNTED J-BOX WITH BLANK COVER AND FURNITURE FEED THROUGH LEG UP TO RECEPTACLE. PROVIDE RECEPTACLE MOUNTED ON SIDE OF TABLE. COORDINATE WITH ARCHITECT FOR DETAILS.
7. POWER FOR UNDER SINK WATER HEATER. COORDINATE WITH PLUMBING FOR RECEPTACLE HEIGHT.
8. PROVIDE J-BOX FOR FLUSH VALVE CONTROL. COORDINATE WITH PLUMBING. MAKE ALL FINAL CONNECTIONS TO HARD WIRE AUTO FLUSH VALVES AND AUTOMATIC FAUCETS.
9. PROVIDE POWER POLE FROM CEILING TO FLOOR WITH 208/2P RECEPTACLE MOUNTED 42" AFF. PROVIDE 50A/2P RECEPTACLES. POWER FROM WELDER PANEL, NUMBER ADJACENT INDICATES CIRCUIT.
10. PROVIDE SWITCH ON WALL AND POWER ON CEILING FOR ROLLING DOOR. COORDINATE WITH ARCHITECT.
11. SPECIAL RECEPTACLES FOR UPS CONNECTION L63OR 208V/1P. COORDINATE WITH EQUIPMENT BEING PROVIDED.
12. TWO DUPLEX RECEPTACLES AT THIS LOCATION. ONE AT 18" AFF THE OTHER AT 84" AFF TO POWER DATA RACK.
13. PROVIDE A RED LOCKING DEVICE OVER BREAKER SERVING THE FIRE ALARM PANEL WITH LABEL TO READ "FIRE ALARM PANEL". PROVIDE LABEL OVER FAP TO CALL OUT CIRCUIT SERVING IT.
14. ALL OUTLETS IN THIS AREA SHALL BE MOUNTED AT 36"AFF.
15. PROVIDE CORD REEL WITH STOPPER FOR END RECEPTACLE TO BE 7FT AFF.
16. PROVIDE TV BOX AS REFERENCED WITH TWO 1-1/4" CONDUIT FROM THE LOW VOLTAGE BOX TO ACCESSIBLE CEILING. PROVIDE DATA AND POWER CONNECTION AS SHOWN ON DRAWINGS.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED ARCHITECT TIMOTHY W. TROTTER

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FINANCING AND INVESTMENT COMMISION
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USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
FIRST FLOOR PLAN - POWER

SHEET NO.
E3.01

PLOT DATE:
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TEMPLATE VERSION: 2.1.0.20090508

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DATE PLOTTED
19-APR-201

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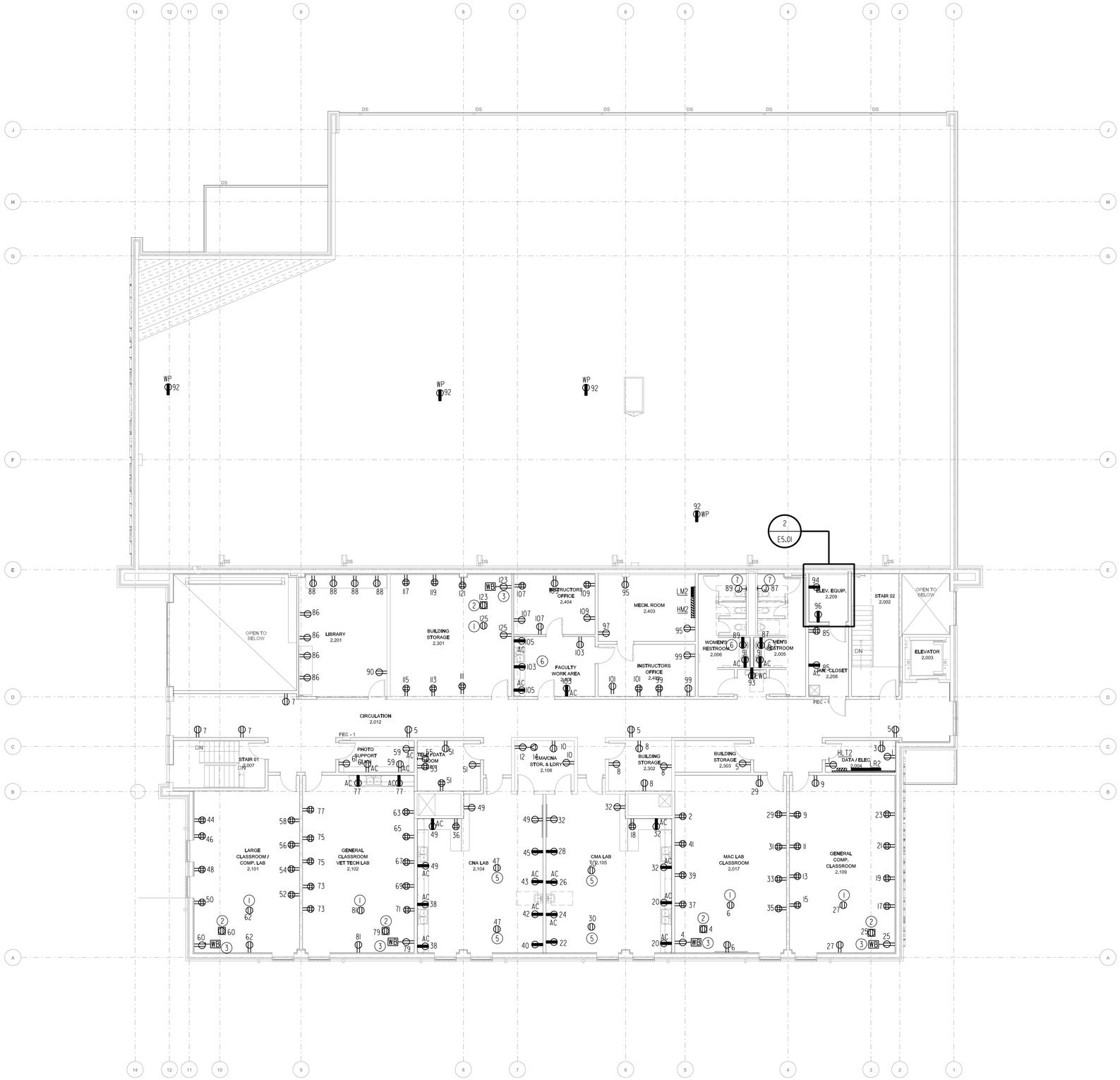

I SECOND FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

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KEY PLAN

GENERAL NOTES: (THIS SHEET ONLY)

(A) ALL FLOOR BOXES LOCATIONS SHALL BE VERIFIED WITH ARCHITECT RIOR TO ROUGH IN TO ACCOUNT FOR ANY FURNITURE CHANGES

(B) LOCATE ALL DATA AND RECEPTACLE OUTLETS PER ARCHITECTURAL CASEWORK ELEVATIONS. DO NOT DIMENSION OUTLETS FROM THE ELECTRICAL SHEETS.

(D) RECEPTACLES ARE FED BY PANEL LR2. NUMBER ADJACENT TO RECEPTACLE DETERMINES CIRCUIT NUMBER. CONSOLIDATION OF HOME RUNS IS ACCEPTABLE UP TO THREE CIRCUITS. PROVIDE DEDICATED NEUTRALS. EQUIPMENT GROUND MAY BE SHARED.

(E) ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A WATER SOURCE SHALL BE GFI.

NOTES: (THIS SHEET ONLY)

(1) CEILING MOUNTED RECEPTACLE TO POWER PROJECTOR. SEE 10/E7.01 FOR DETAILS.

(2) AV FLOORBOX PROVIDED BY EC. PROVIDE AV INFRASTRUCTURE AS SHOWN ON DETAIL 2/E7.01. PROVIDE POWER OUTLET WITHIN AV FLOORBOX.

(3) AV WALLBOX PROVIDED BY EC. PROVIDE AV INFRASTRUCTURE AS SHOWN ON DETAIL 8/E7.01. RECEPTACLE WITHIN AV WALLBOX.

(4) PROVIDE J-BOX WITH WIRES CONNECTED TO CIRCUIT BY THE SINKS FOR FLUSH VALVE CONTROL. COORDINATE WITH PLUMBING. MAKE ALL FINAL CONNECTIONS TO HARD WIRE AUTO FLUSH VALVES AND AUTOMATIC FAUCETS.

(5) POWER ON CEILING FOR TV.

(6) POWER FOR UNDER SINK WATER HEATER.

(7) PROVIDE J-BOX TO POWER FLUSH VALVE CONTROL AND AUTOMATIC FAUCETS.

REVISION

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SECOND FLOOR PLAN - POWER

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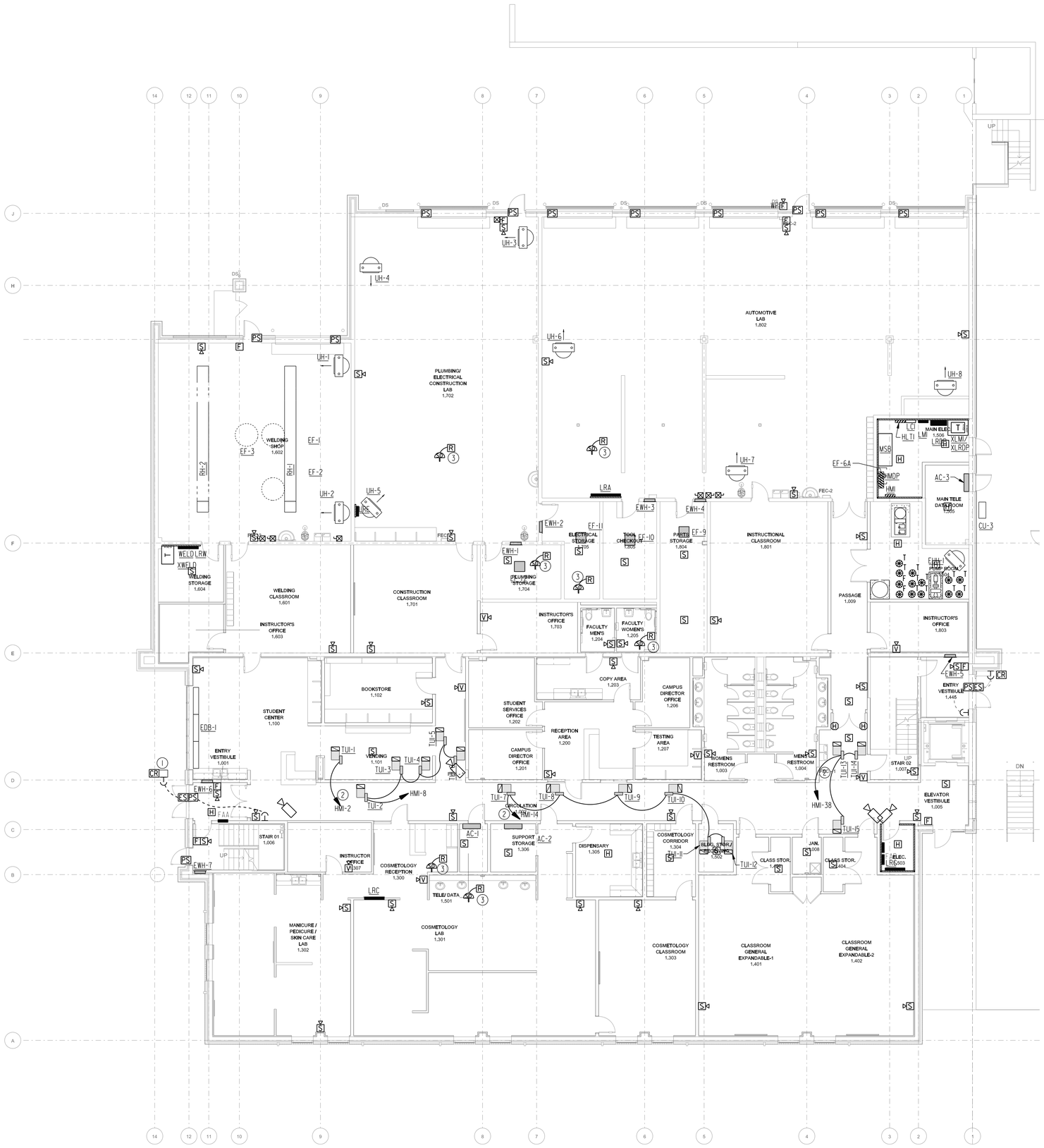


MECHANICAL EQUIPMENT SCHEDULE

MECHANICAL TAG	VOLTAGE	DISCONNECT TYPE	DISCONNECT SIZE AMP/POLE/NEMA	HP/KW/MOCP	CKT #	NOTES
EF-1,2,3	480/3	FUSE DISCONNECT	30A/3P/3R	3HP	HM1-1,7,13	2
EF-4,5,6	480/3	FUSE DISCONNECT	30A/3P/3R	0.5HP	HM1-19,25,31	2
EF-7	480/3	FUSE DISCONNECT	30A/3P/3R	2HP	HM1-37	2
EF-8	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LRA-85	1,2
EF-9,10,11,12	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LRA-87,89,91,93	1
UH-1,2	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LRW-8,10	1
UH-3,4,5	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LRE-14,16,18	1
UH-6,7,8	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LRA-95,97,99	1
EUH-1	277/1	FUSE DISCONNECT	30A/2P	3.3KW	HMI-20	
EWH-1,2	208/3	BUILT IN	BY DIV 23	2KW	LM1-13,19	3
EWH-3,4	208/3	BUILT IN	BY DIV 23	3KW	LM1-25,31	3
EWH-5	208/3	BUILT IN	BY DIV 23	5KW	LM1-37	3
EWH-6	208/3	BUILT IN	BY DIV 23	2KW	LM1-14	3
EWH-7	208/3	BUILT IN	BY DIV 23	5KW	LM1-20	3
CU-3,4	208/1	FUSE DISCONNECT	30A/2P/3R	30MOCP	LM1-6, 10	7
JOCKEY PUMP	480/3	STARTER DISCONNECT	BY DIV 23	1HP	HM1-26	
BOOSTER PUMP	480/3	STARTER DISCONNECT	BY DIV 23	(2)5HP	HM1-32	8
WH	480/3	FUSE DISCONNECT	60A/3P/1	30KW	HMDP-31	
TU	208/3P	ENCLOSED BREAKER			SEE PLANS	7
EDB-1	277/1	FUSE DISCONNECT	30A/2P	3.75KW	HM1-22	8
RH-1,2	120/1	MOTOR RATED SWITCH	20A/1	.6KW	LRW-12,14	8

NOTES: COORDINATE WITH MECHANICAL FOR EXACT LOCATION.

1. WIRE THROUGH MOTOR RATED SWITCH MOUNTED ON OR ADJACENT TO UNIT
2. PROVIDE WEATHERPROOF HOUSING
3. BUILT IN DISCONNECT
4. PROVIDE BREAKER/DISCONNECT TO COMPLY WITH NEC CLEARANCES 9/E701
5. WIRE THROUGH VFD UNIT PROVIDED BY DIV 23
6. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT TO COMPLY WITH NEC CLEARANCES
7. PROVIDE REQUIRED POWER AND CONTROLS TO AC INTERIOR UNIT FROM EXTERIOR UNIT
8. MULTIPLE CONNECTIONS MAY BE REQUIRED, SEE MECHANICAL FOR DETAILS

GENERAL NOTES: (THIS SHEET ONLY)

(A) FIRE ALARM DEVICES ARE TO MATCH WALL COLOR. (WHITE PT-2)

(B) FIRE ALARM ANNUNCIATOR SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ORDER.

(C) SEE 1/E7.01 FOR TYPICAL SECURITY DOOR ROUGH IN REQUIREMENTS.

NOTES: (THIS SHEET ONLY)

(1) CARD READER AND ADA PUSH BUTTON. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH IN.

(2) SEE DETAIL 9/E7.01 FOR TERMINAL UNIT CONNECTIONS.

(3) PROVIDE CONNECTION AND POWER TO DUCT SMOKE DETECTOR AND RELAY CONNECTED TO DAMPER.

1 FIRST FLOOR PLAN - SYSTEMS/HVAC POWER

SCALE: 1/8" = 1'-0"

8 0 4 8 16

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED ARCHITECT TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISSION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

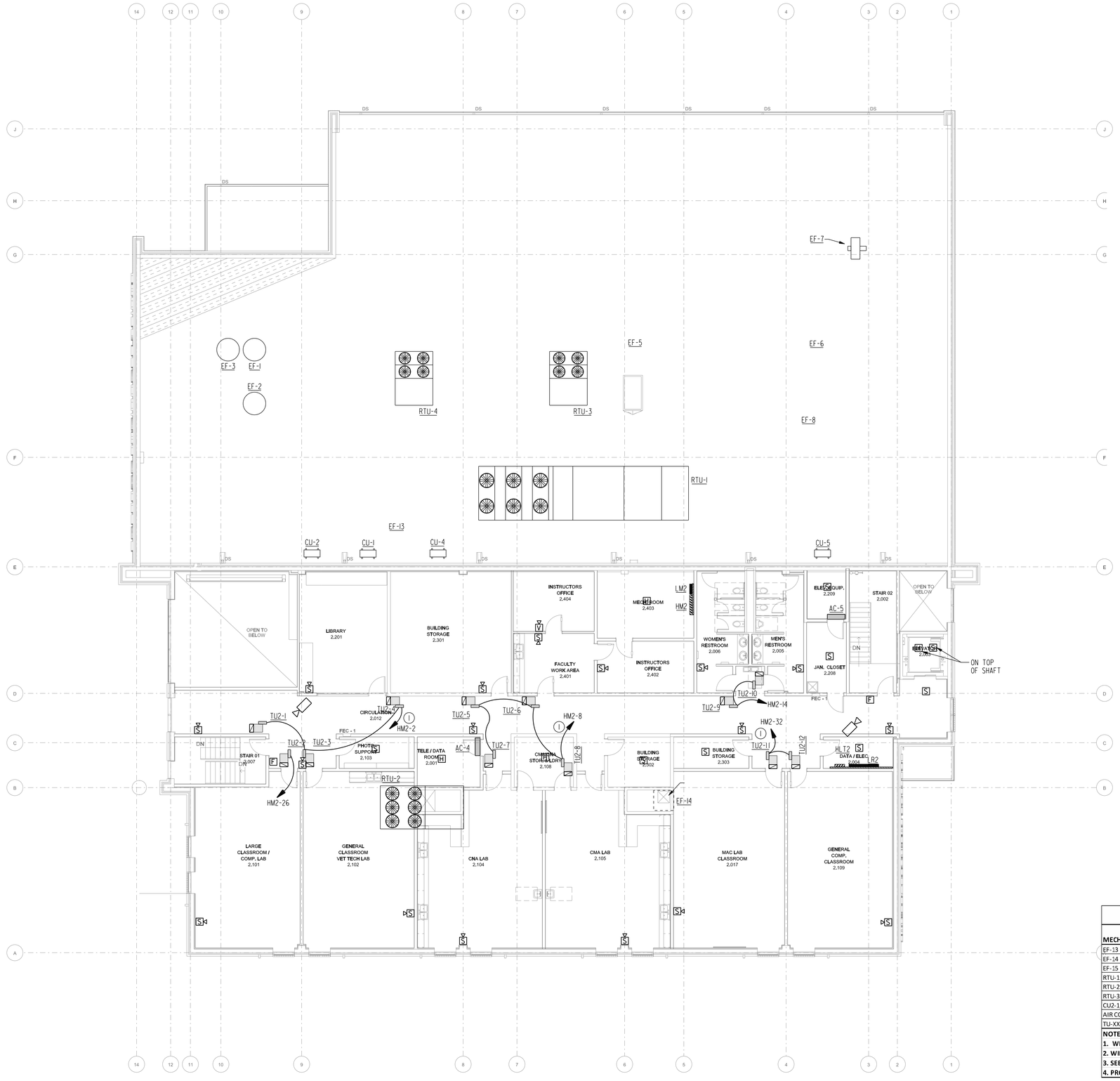
REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
FIRST FLOOR PLAN - SYSTEMS/HVAC POWER

SHEET NO.
E4.01

PLOT DATE:
9/19/2009 11:19:59 PM
TEMPLATE VERSION: 2.1.0.20090508



1 SECOND FLOOR PLAN - SYSTEMS/HVAC POWER

SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

GENERAL NOTES: (THIS SHEET ONLY)

A. FIRE ALARM DEVICES ARE TO MATCH WALL COLOR. (WHITE PT-2)

B. FIRE ALARM ANNUNCIATOR SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ORDER.

NOTES: (THIS SHEET ONLY)

1. SEE DETAIL 9/E7.02 FOR POWER CONNECTIONS TO TERMINAL UNITS.

MECHANICAL EQUIPMENT LOADS

MECHANICAL TAG	VOLTAGE	DISCONNECT TYPE	DISCONNECT SIZE AMP/POLE/NEMA	HP/KW/MOCP	CKT #	NOTES
EF-13	120/1	MOTOR RATED SWITCH	20A/1	1/8HP	LM2-2	2
EF-14	120/1	MOTOR RATED SWITCH	20A/1	1/3HP	LM2-4	2
EF-15	120/1	MOTOR RATED SWITCH	20A/1	1/6HP	LM2-6	2
RTU-1	480/3	FUSE DISCONNECT	400A/3P/3R	30HP/75KW/225	HMDP-19	1
RTU-2	480/3	FUSE DISCONNECT	100A/3P/3R	5HP/30KW	HMDP-25	1
RTU-3,4	480/3	FUSE DISCONNECT	30A/3P/3R	30MOCP	HM2-1,7	1
CU2-1,2,5,6	208/1	ENCLOSED BREAKER	30A/3P/3R	30MOCP	LM2-8,12,16,20	1,4
AIR COMPESSOR	480/3	FUSE DISCONNECT	60A/3P/1	20HP	HM2-20	1
TU-XX	208/3P	ENCLOSED BREAKER	SEE E7.01		SEE PLANS	3

NOTES:
1. WIRE THROUGH DISCONNECT ON ROOF ADJACET TO UNIT. SEE DETAIL 6/E701
2. WIRE THROUGH MOTOR RATED SWITCH MOUNTED ON OR ADJACENT TO UNIT
3. SEE 9/E7.01 FOR DETAILS
4. PROVIDE PATH AND CONNECTION TO INTERIOR AC UNIT. COORDINATE WITH MECHANICAL.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

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DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

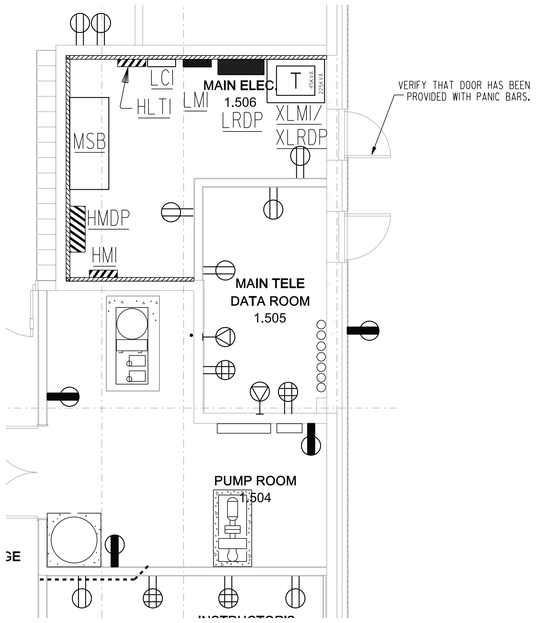
HKS PROJECT NUMBER
12528.000

DATE
APRIL 19, 2011

ISSUE
BID SET

SHEET TITLE
SECOND FLOOR PLAN - SYSTEMS/HVAC POWER

SHEET NO.
E4.02



1 LARGE SCALE MAIN ELELCTRICAL/TELECOM ROOM - ELECTRICAL

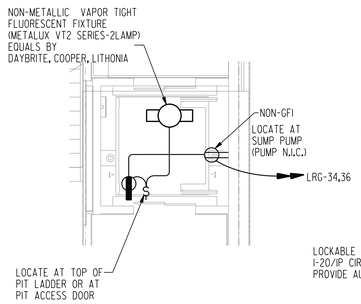
SCALE: 1" / 4 = 1'-0"

4 0 2 4 8

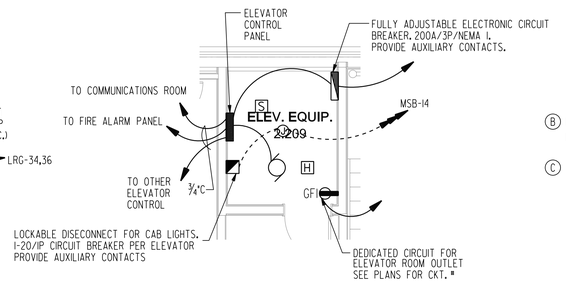
NOTES: (LARGE SCALE ONLY)

(A) CONTRACTOR IS TO PROVIDE ELECTRICAL ENGINEER WITH FINAL ROOMS LAYOUT FOR APPROVAL. PROVIDE ACTUAL SELECTED EQUIPMENT SIZE, AND CONDUITS ROUTINGS TO AVOID CONFLICTS.

(B) SEE DETAILS 3/E7.01FOR ELECTRICAL EQUIPMENT LABELING DETAILS.



ELEVATOR PIT



ELEVATOR MACHINE ROOM

2 LARGE SCALE - ELEVATOR - ELECTRICAL

SCALE: 1" / 4 = 1'-0"

4 0 2 4 8

ELEVATOR NOTES: (LARGE SCALE 2 ONLY)

(A) THE CONTRACTOR SHALL:
COORDINATE AMONG THE CONTRACTOR, SUBCONTRACTORS AND ELEVATOR SUPPLIER.

SUBMIT AND COORDINATE ELEVATORS BOTH IN ADVANCE OF INSTALLATION AND BEFORE STUBBING OF THE CIRCUITS. SUBMIT ELECTRICAL EQUIPMENT FOR ELEVATORS ACTUALLY PROVIDED.

COORDINATE ELEVATOR WORK REGARDLESS OF THE DIVISION UNDER WHICH WORK IS SHOWN.

(B) PROVIDE ELEVATOR WORK IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODE CHAPTER 30.

(C) THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WORK:
ELEVATOR CONTROL STATIONS AND RELATED CIRCUITING

CONTROL CIRCUITING AND INTERLOCKS INCLUDING CONTROL "CARDS"

OTHER ITEMS REQUIRED BY THE ELEVATOR SUPPLIER OR CODES

EQUIPMENT ARRANGEMENT IN THE ELEVATOR CONTROL ROOM AS RECOMMENDED BY THE ELEVATOR SUPPLIER AND REQUIRED BY APPLICABLE CODES.

(D) PER ANSI A17.1RULE 106IE, EACH ELEVATOR PIT SHALL BE PROVIDED A PERMANENT FIXTURE AND GFI RECEPTACLE BELOW THE ELEVATOR WITH A SWITCH ACCESSIBLE AT THE TOP OF THE PIT LADDER OR THRU THE PIT ACCESS DOOR.

(E) ELEVATOR CONTROL ROOM SHALL BE:
PER ANSIA17.1RULE 101.5, PROVIDED 10 FOOTCANDELS ILLUMINATION MINIMUM AT FLOOR LEVEL

PROVIDED DISCONNECTS FOR EACH CAR'S 110 VAC LIGHTING. DISCONNECTS SHALL CONSIST OF SEPARATELY ENCLOSED 1-POLE BREAKERS LOCKABLE IN THE "OFF" POSITION. REFERENCE NEC SECTIONS 620-22 AND 620.52.

(F) ELEVATOR CONTROL ROOM SHALL:
IN ELEVATOR CONTROL ROOM, NEAR THE ENTRY DOOR, FOR EACH ELEVATOR, PROVIDE A LOCKABLE BREAKER. (REFERENCE NFPA CHAP.70 620-51) MULTIPLE BREAKERS SHALL BE SEPARATELY ENCLOSED. SIZE FOR ELEVATORS ACTUALLY PROVIDED. DEVICE SHALL BE FULLY RATED FOR FAULT CURRENT AVAILABLE.

TWO-HOUR FIRE RATED ELEVATOR CONTROL ROOM:
SPRINKLER AND AUTOMATIC DISCONNECTING MEANS SHALL NOT BE PROVIDED. REFERENCE GA DEPT OF LABOR - R&R 300-3-6-.25(c).J
PROVIDE SMOKE SENSING DEVICE IN EACH ELEVATOR LOBBY HOISTWAY, DEDICATED TO INITIATE FIREMANS EMERGENCY RETURN PER ANSIA17.1RULE 211.3b.

CONNECT FOUR DRY CONTACTS FROM THE MAIN SMOKE SENSING PANEL TO THE ELEVATOR CONTROLLER FOR OPERATION OF FIRE SERVICE, PER ANSIA17.1RULE 211.3a.

(G) COMMUNICATIONS:
PROVIDE WORKING TELEPHONE OR INTERCOMS IN EACH CAR WITH NECESSARY WIRING PULLED TO THE ELEVATOR CONTROLLER PER ANSIA17.1RULE 211.1.

PROVIDE CONDUIT AND CATEGORY-6 CABLE TO THE COMMUNICATIONS ROOM WITH ONE CABLE PER ELEVATOR CAB. HOMERUNS MAY CONTAIN MULTIPLE CABLES.

(H) SMOKE DETECTION:
PROVIDE SMOKE SENSING DEVICES IN EACH ELEVATOR MACHINE ROOM, LOBBY HOISTWAY AND HOISTWAY TOP DEDICATED TO INITIATE FIREMAN'S EMERGENCY RETURN PER ANSIA17.1RULE 211.3b.

PER ANSIA17.1RULE 211.3a CONNECT TWO DRY CONTACTS FROM THE MAIN SMOKE SENSING PANEL TO THE ELEVATOR CONTROLLER FOR FIRE SERVICE.

(I) IN EVENT OF POWER LOSS:
PROVIDE ELEVATOR CONTROLS SUCH THAT UPON POWER LOSS, THE ELEVATOR WILL OPEN AT EGRESS LEVEL.

(J) CONTRACTOR SHALL ARRANGE BREAKERS TO PROVIDE MAXIMUM CLEARANCE. LAYOUT SHOWN IS A CIRCUITING GUIDE ONLY.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

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KEY PLAN

REVISION NO. | DESCRIPTION | DATE

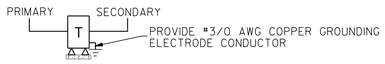
HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
LARGE SCALES - ELECTRICAL

SHEET NO.
E5.01

DRY TYPE TRANSFORMER FEEDER CHART

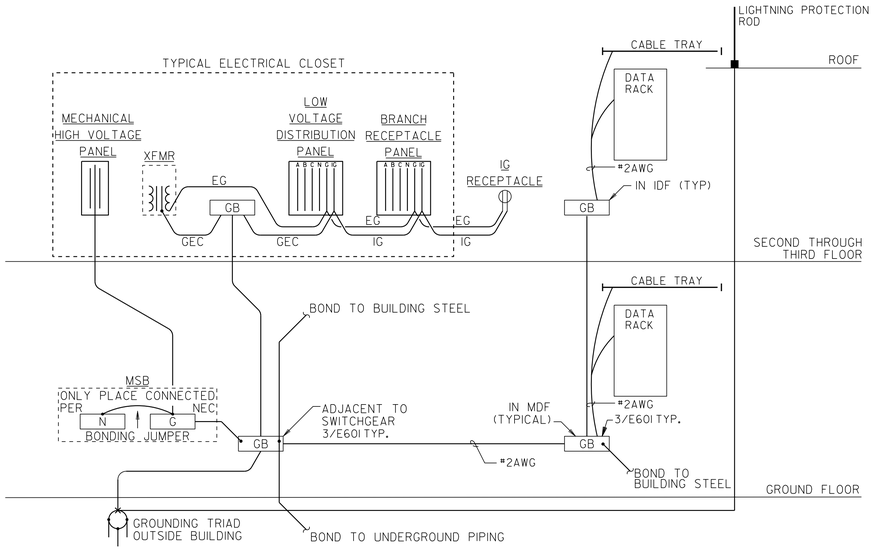
PRIMARY: 480V, DELTA, 3-PHASE			KVA	SECONDARY: 208V, WYE, 3-PHASE			
CONDUIT		WIRE		CONDUIT		WIRE	
1/2"		4#10	15	1 1/4"		4#4, 1#8G	
1"		3#6, 1#8G	30	1 1/2"		4#1, 1#6G	
1 1/4"		3#2, 1#8G	45	2"		4#1/0, 1#6G	
2"		3#1/0, 1#6G	75	3"		4#250KCMIL, 1#2G	
2 1/2"		3#4/0, 1#2G	112.5	4"		4#600KCMIL, 1#1/0G	
3"		3#300KCMIL, 1#2G	150	2 SETS	3"	4#350KCMIL, 1#1/0G	
4"		3#600KCMIL, 1#1/0G	225	2 SETS	4"	4#600KCMIL, 1#2/0G	
2 SETS	3"	3#600KCMIL, 1#1/0G	300	3 SETS	3 1/2"	4#500KCMIL, 1#3/0G	



1 POWER RISER
NOT TO SCALE

NOTES: (THIS SHEET ONLY)

1. 4 SETS:4#600KCMIL, 4"C.
2. 4#2/0 AWG, 1#6G, 2"C.
3. 3 SETS: 4#600KCMIL, 1#4/0G, 4"C.
4. ALL CONDUCTORS FROM TRANSFORMER TO FIRE PUMP SHALL BE ENCASED IN CONCRETE AS REQUIRED BY NEC ARTICLE 695. PROVIDE 3#1/0AWG, 1#6G, 2"C.
5. 4#600KCMIL, 1#2G, 4"C.
6. 4#250KCMIL, 1#4G, 2-1/2"C.
7. PROVIDE 16 RELAY MASTER LIGHTING CONTACTOR WITH ASTRONOMICAL TIMECLOCK.
8. 4#1AWG, 1#6G, 2"C.
9. 4#600KCMIL, 1#2G, 4"C.
10. 2 SETS:4#600KCMIL, 1#2/0G, 4"C.



2 GROUNDING RISER
NO SCALE

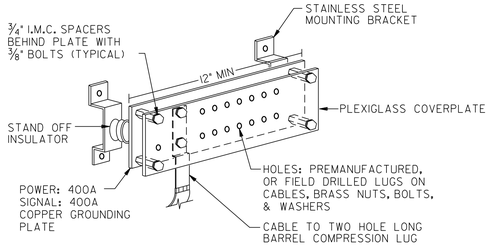
GENERAL NOTES: (THIS SHEET ONLY)

A. ALL GROUNDING CONDUCTORS SHALL BE #4/0 UNLESS OTHERWISE NOTED ON PANELBOARD SCHEDULE. DATA GROUNDS SHALL BE MINIMUM #6 AWG PER SPECIFICATIONS. PROVIDE OTHER SIZES AS INDICATED.

B. GROUNDING SHOWN IS NOT ALL INCLUSIVE. REFER TO SPECIFICATIONS FOR FURTHER DESCRIPTION.

RISER LEGEND:

GB=GROUND BAR
IG=ISOLATED GROUND
EG=EQUIPMENT GROUND
GEC=GROUNDING ELECTRODE CONDUCTOR



3 GROUNDING BAR
NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

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TECHNICAL COLLEGE SYSTEM OF GEORGIA
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KEY PLAN

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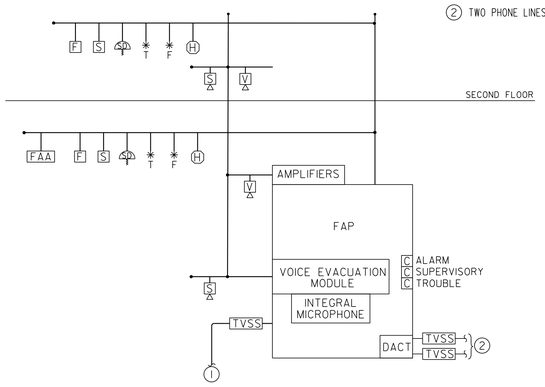
SHEET TITLE
RISERS - ELECTRICAL

SHEET NO.
E6.01

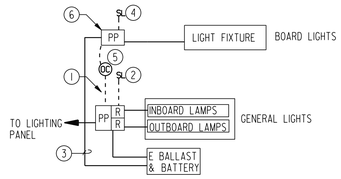
NOTES: (THIS SHEET ONLY)

1. TO 120V CIRCUIT.
2. TWO PHONE LINES DIAL OWNER SPECIFIED AGENCY.



1 FIRE ALARM RISER

NOT TO SCALE



2 CLASSROOM LIGHTING CONTROL

NO SCALE

GENERAL NOTES: (DETAIL 2 ONLY)

A. THE INTENT IS TO CONTROL THE GENERAL LIGHTS TO BE AUTO ON FOR INBOARD LAMPS, MANUAL ON FOR OUTBOARD LAMPS. LIGHTS SHALL BE TURNED OFF AUTOMATICALLY BY OCCUPANCY SENSOR OR MANUALLY BY WALL SWITCH.

B. THE INTENT IS FOR BOARD LIGHTS TO BE SWITCHED SEPARATE FROM GENERAL ROOM LIGHTING.

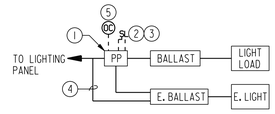
C. SWITCHES ADJACENT TO EACH OTHER SHALL BE HOUSED BY A SINGLE FACE PLATE.

NOTES: (DETAIL 2 ONLY)

1. POWER PACK TO HAVE TWO RELAYS. POWER PACK TO RECEIVE INPUT FROM OCCUPANCY SENSOR AND LOW VOLTAGE SWITCH. PROGRAM TO BE AUTO ON FOR INBOARD LAMPS, MANUAL ON FOR OUTBOARD LAMPS, AUTO/MANUAL OFF FOR OUTBOARD LAMPS AND INBOARD LAMPS.
2. LOW VOLTAGE SWITCH, TO CONTROL OUTBOARD LAMPS "UP" TURNS OUTBOARD LAMPS ON, "DOWN" TURNS OUTBOARD LAMPS OFF, DOWN AGAIN WOULD TURN ALL LIGHTS OFF.
3. UNSWITCHED HOT FOR POWER LOSS SENSING.
4. LOW VOLTAGE SWITCH TO CONTROL BOARD LIGHTS. UP TURNS BOARD LIGHTS ON. DOWN TURNS BOARD LIGHTS OFF.
5. LOW VOLTAGE OCCUPANCY SENSOR SEE GENERAL NOTE A.
6. POWER PACK TO RECEIVE OCCUPANCY SENSORS AND LOW VOLTAGE SWITCH INPUT. PROGRAM TO BE MANUAL ON, MANUAL/AUTO OFF.

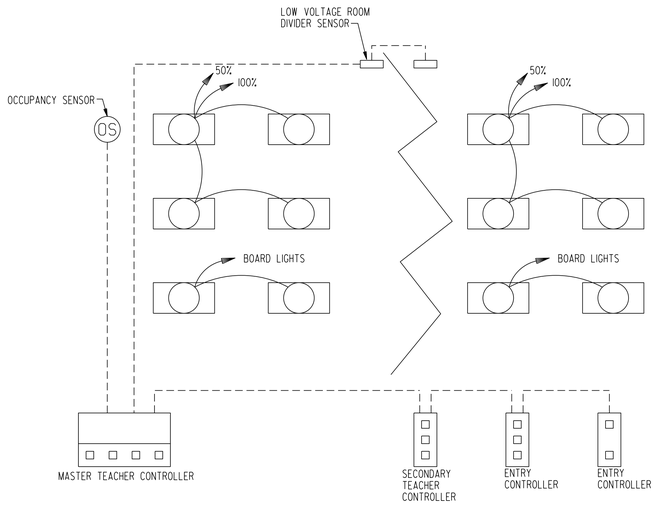
NOTES: (DETAIL 3 ONLY)

1. POWER PACK TO CONTROL BALLAST. THE INTENT IS FOR CONTROLS TO BE AUTO ON TO 50%, MANUAL TO 100%, AUTO/MANUAL OFF.
2. LOW VOLTAGE SWITCH TO MANUALLY CONTROLINBOARD/OUTBOARD LIGHTS.
3. OFFICES PROVIDED WITH INBOARD/OUTBOARD FIXTURES SHALL BE SET WITH A TWO RELAY POWER PACK.
4. UNSWITCHED HOT FOR POWER LOSS SENSING.
5. LOW VOLTAGE OCCUPANCY SENSOR AS SHOWN ON PLANS TO AUTOMATICALLY TURN INBOARD LIGHTS ON OR TURN ALL LIGHTS OFF IF NO ONE IS IN THE ROOM.



3 OFFICE LIGHTING LINE DIAGRAM OFFICE

NO SCALE



4 TYPICAL CLASSROOM SWITCHING

NOT TO SCALE

GENERAL NOTES: (DETAIL 4 ONLY)

A. INTENT IS FOR TEACHER CONTROLLER TO HAVE 3 ZONES OF CONTROL. BOARD LIGHTS, GENERAL LIGHTS INBOARD LAMP AND GENERAL LIGHTS OUTBOARD LAMPS. ENTRY CONTROLLERS ARE TO CONTROL ON AND OFF FOR GENERAL AREA LIGHTS.

B. WHEN DIVIDER IS IN PLACE CONTROLLERS SHALL ONLY CONTROL LIGHTS WITHIN ITS AREA.

C. LIGHTS SHALL BE AUTOMATICALLY CONTROLLED BY OCCUPANCY SENSOR.

D. UNSWITCHED HOT SHALL BE PROVIDED.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
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ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

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1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

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MACON, GA. 31210

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RISERS - ELECTRICAL

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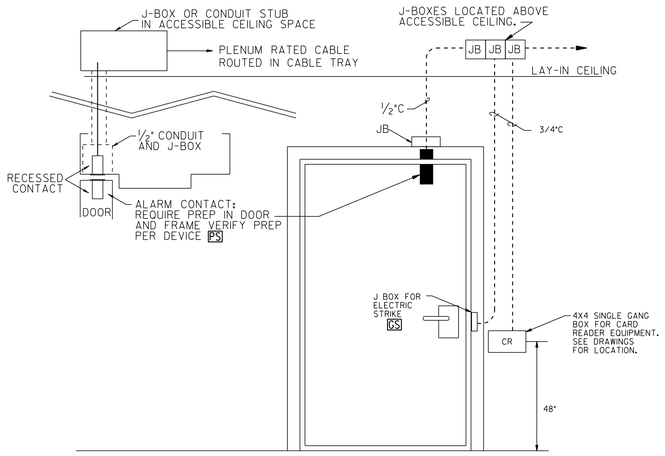
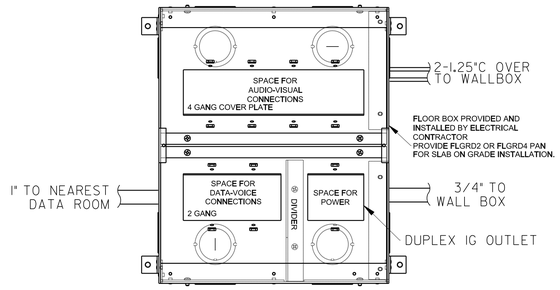


1 DOOR SECURITY ACCESS DETAIL

NOT TO SCALE

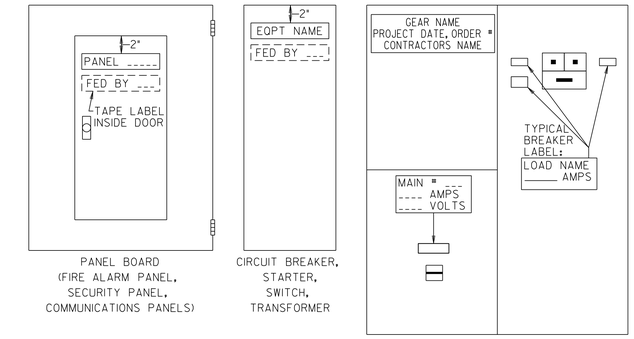


PLAN VIEW

NOTE: DESIGN BASIS FOR THIS BOX IS THE FSR 500P WITH 6" DEPTH
PROVIDE COVER FLUSH WITH FLOOR.

2 AV FLOORBOX DETAIL

NOT TO SCALE



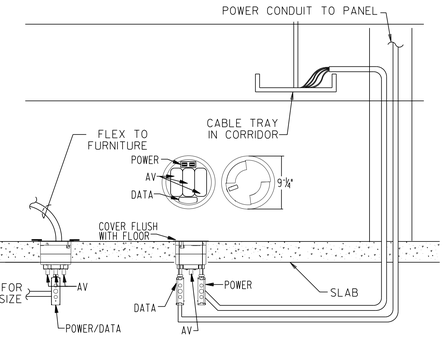
PANEL BOARD (FIRE ALARM PANEL, SECURITY PANEL, COMMUNICATIONS PANELS)

CIRCUIT BREAKER, STARTER, SWITCH, TRANSFORMER

SWITCHBOARD, SWITCHGEAR, OR POWERSTYLE PANELS

3 TYPICAL ELECTRICAL EQUIPMENT LABELING

NOT TO SCALE

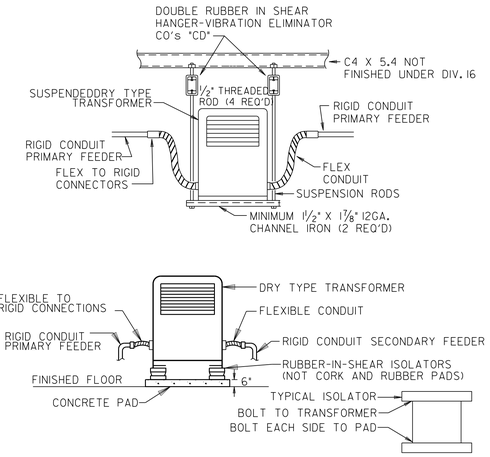


ELEVATION VIEW

NOTE: DESIGN BASIS IS 8AT POKE THRU

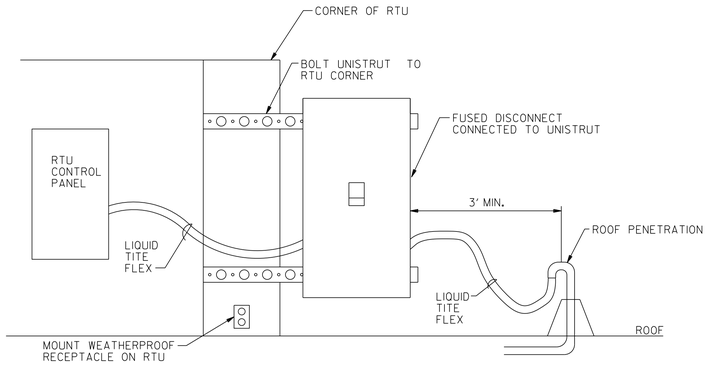
4 SECOND FLOOR POKE THRU DESCRIPTION

NOT TO SCALE



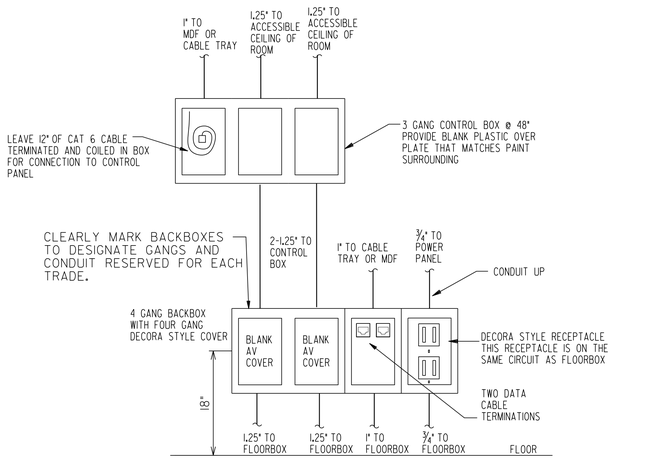
5 DRY TYPE TRANSFORMER DETAIL

NOT TO SCALE



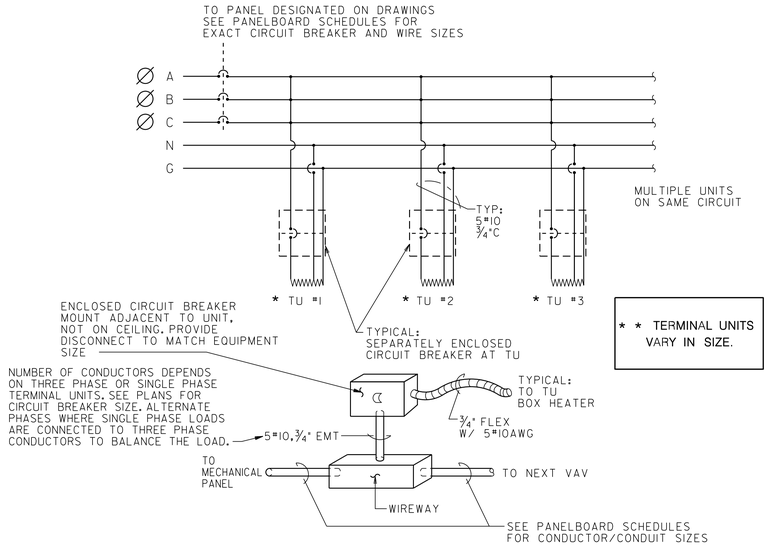
6 RTU CONNECTION

NOT TO SCALE



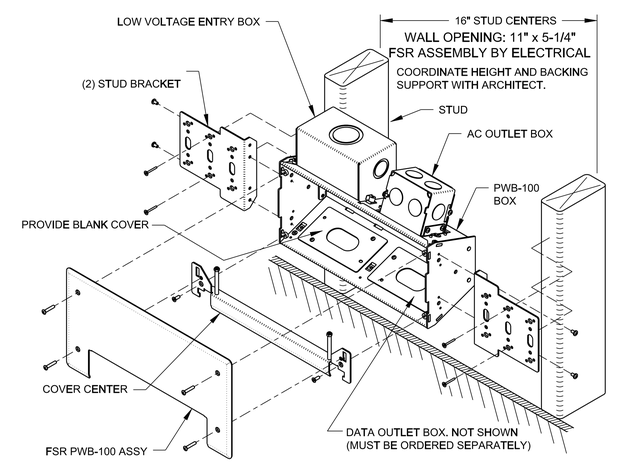
8 WB = WALL BOX CONTROL STATION

NOT TO SCALE



9 CIRCUITING FOR TU UNITS

NOT TO SCALE



BASIS OF DESIGN IS THE FSR PWB-100 BOX. OTHER EQUALS ARE ACCEPTABLE.

10 TV DISPLAY MULTISERVICE BOX

NOT TO SCALE

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1152 CENTURY PLAZA, SUITE 212
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & PENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA 30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
DETAILS - ELECTRICAL

SHEET NO.
E7.01

DGN FILE
P:\09029\9029e801.dgn

DATE PLOTTED
19-APR-2011

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$REF039
$REF040

MSB

480 / 277 3 PH, 4 WIRE NEW — FED BY POWER CO TRANSFORMER — MCB 1600 AMPS FLOOR MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	150	3	SEE E601		PANEL HLT1 *	13192	1	54792			2	41600	TRANS XWELD		SEE E601	225	3	2
3						11450	3		55300		4	43850	112.5KVA					4
5						10644	5			54494	6	43850						6
7	400	3	SEE E601		TRANS XLRDP	106040	7	281323			8	175283	PANEL HMDP		SEE E601	800	3	8
9					225KVA	104940	9		279267		10	174327						10
11						96384	11			263207	12	166823						12
13	225	3			SPARE		13	17000			14	17000	ELEVATOR	1-1/2"	4#1/0	150	3	14
15							15		17000		16	17000			1#6G			16
17							17			17000	18	17000						18
19	100	3			SPARE		19	0			20		SPD			60	3	20
21							21		0		22							22
23							23			0	24							24
								0										
									0									
										0								
								0										
									0									
										0								
								0										
									0									
										0								

Minimum KAIC: 65 — LOCATION: MAIN ELECTRICAL ROOM

	A	B	C
PANEL SECTION CONN V A	353115	351567	334701
PANEL SECTION CONN AMPS	1274	1269	1208
MULTISECTION CONN V A	353115	351567	334701
MULTISECTION CONN AMPS	1274	1269	1208

NOTES
* GFI BREAKER
ALL BREAKERS 400A AND UP SHALL BE SOLID SPATE LSIG AND RATED FOR 100% AMPACITY
PROVIDE SURGE PROTECTIVE DEVICE (SPD) INTEGRAL TO BOARD

PANEL HLT1

480 / 277 3 PH, 4 WIRE NEW — FED BY MSB — MLO 150 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	3#10	1/2"	AUTOMOTIVE S.	1408	1	1908			2	500	STUDENT CENTER	1/2"	3#10	20	1	2
3	20	1	3#10	1/2"	AUTOMOTIVE N.	1600	3		2750		4	1150	OFFICES	1/2"	3#10	20	1	4
5	20	1	3#10	1/2"	MAIN ELEC.	400	5			2400	6	2000	CLASS COSMET	1/2"	3#10	20	1	6
7	20	1	3#10	1/2"	PLUMBING ROOM	700	7	2100			8	1400	LAB COSMET	1/2"	3#10	20	1	8
9	20	1	3#10	1/2"	ELECTRICAL ROOM	700	9		2200		10	1500	GENERAL CLASS	1/2"	3#10	20	1	10
11	20	1	3#10	1/2"	WELDING ROOM	1024	11			1324	12	300	VESTIBULE	1/2"	3#10	20	1	12
13	20	1	3#10	1/2"	CONSRUCTION	1000	13	1200			14	200	SOUTH ENTRANCE	1/2"	3#10	20	1	14
15	20	1	3#10	1/2"	WELDING CLASS	800	15		800		16		SPARE			20	1	16
17	20	1	3#10	1/2"	AUTOMOTIVE CLASS	1300	17			1300	18		SPARE			20	1	18
19	20	1	3#10	1/2"	W. EXT LIGHTS	300	19	300			20		SPARE			20	1	20
21	20	1	3#10	1/2"	WELDING EXT	300	21		300		22		SPARE			20	1	22
23	20	1	3#10	1/2"	PLUM/ELEC EXT	300	23			300	24		SPARE			20	1	24
25	20	1	3#10	1/2"	AUTO EXT	600	25	600			26		SPARE			20	1	26
27	20	1	3#10	1/2"	EAST EXT LIGHT	300	27		300		28		SPARE			20	1	28
29	20	1	3#10	1/2"	CORRIDOR	1500	29			1500	30		SPARE			20	1	30
31	20	1	3#10	1/2"	SECOND F.	1000	31	1000			32		SPARE			20	1	32
33	20	1			SPARE		33		0		34		SPARE			20	1	34
35	20	1			SPARE		35			0	36		SPARE			20	1	36
37	20	1			SPARE		37	6084			38	6084	PANEL HLT2 *		SEE E601	60	3	38
39	20	1			SPARE		39		5100		40	5100						40
41	20	1			SPARE		41			3820	42	3820						42

Minimum KAIC: 50 — LOCATION: MAIN ELECTRICAL
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	13192	11450	10644
PANEL SECTION CONN AMPS	48	41	38
MULTISECTION CONN V A	13192	11450	10644
MULTISECTION CONN AMPS	48	41	38

NOTES
* PROVIDE DISTRIBUTION BREAKER ON BOTTOM OF PANEL

PANEL HMDP

480 / 277 3 PH, 4 WIRE NEW — FED BY MSB — MLO 800 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1		3			SPACE		1	0			2		SPACE				3	2
3							3		0		4							4
5							5			0	6							6
7		3			SPACE		7	0			8		SPACE				3	8
9							9		0		10							10
11							11			0	12							12
13		3			SPACE		13	0			14		SPACE				3	14
15							15		0		16							16
17							17			0	18							18
19	225	3	4#4/0	2-1/2"	RTU-1	57700	19	57700			20		SPARE			150	3	20
21			1#4G			57700	21		57700		22							22
23						57700	23			57700	24							24
25	80	3	4#3	1-1/4"	RTU-2	19400	25	36590			26	17190	TRANS XLMI		SEE E601	80	3	26
27			1#8G			19400	27		35934		28	16534	45KVA					28
29						19400	29			31430	30	12030						30
31	60	3	3#4	1-1/4"	WH	10000	31	51210			32	41210	PANEL HM2		SEE E601	250	3	32
33			1#8G			10000	33		51210		34	41210						34
35						10000	35			51210	36	41210						36
37	100	3			SPARE		37	29783			38	29783	PANEL HM1		SEE E601	250	3	38
39							39		29483		40	29483						40
41							41			26483	42	26483						42

Minimum KAIC: 50 — LOCATION: MECHANICAL ROOM

	A	B	C
PANEL SECTION CONN V A	175283	174327	166823
PANEL SECTION CONN AMPS	632	629	602
MULTISECTION CONN V A	175283	174327	166823
MULTISECTION CONN AMPS	632	629	602

NOTES

PANEL HM1 SEC 1

480 / 277 3 PH, 4 WIRE NEW — FED BY HMDP — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	30	3			SPARE		1	3333			2	3333	TU1-1	3/4"	5#10	20	3	2
3							3		3333		4	3333						4
5							5			3333	6	3333						6
7	30	3			SPARE		7	6000			8	6000	TU1-2,3,4,5,6	1"	4#6	40	3	8
9							9		6000		10	6000			1#10G			10
11							11			6000	12	6000						12
13	30	3			SPARE		13	6833			14	6833	TU1-7,8,9,10,11,12	1"	4#6	40	3	14
15							15		6833		16	6833			1#10G			16
17							17			6833	18	6833						18
19	30	3			SPARE		19	3300			20	3300	EUH-1	3/4"	3#10	20	1	20
21							21		3000		22	3000	EDB-1	3/4"	3#10	20	1	22
23							23			0	24		SPARE			20	1	24
25	30	3			SPARE		25	581			26	581	JOCKEY PUMP	3/4"	4#10	20	3	26
27							27		581		28	581						28
29							29			581	30	581						30
31	30	3			SPARE		31	3070			32	3070	BOOSTER PUMP	3/4"	4#10	30	3	32
33							33		3070		34	3070						34
35							35			3070	36	3070						36
37	30	3			SPARE		37	6666			38	6666	TU1-13,14,15	3/4"	4#6	40	3	38
39							39		6666		40	6666			1#10G			40
41							41			6666	42	6666						42

Minimum KAIC: 50 — LOCATION: MECHANICAL ROOM

	A	B	C
PANEL SECTION CONN V A	29783	29483	26483
PANEL SECTION CONN AMPS	107	106	96
MULTISECTION CONN V A	29783	29483	26483
MULTISECTION CONN AMPS	107	106	96

NOTES
PROVIDE FEED THRU LUGS

PANEL LM1

208 / 120 3 PH, 4 WIRE NEW — FED BY HMDP VIA XLM1 — MCB 150 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	EF-6A	1000	1	3080			2	2080	CU-3	3/4"	4#10	30	2	2
3	20	1			SPARE		3		2080		4	2080						4
5	20	1			SPARE		5			0	6		SPARE			30	2	6
7	20	1			SPARE		7	0			8							8
9	20	1			SPARE		9		0		10		SPARE			30	2	10
11	20	1			SPARE		11			0	12							12
13	20	3	5#10	3/4"	EWH-1	670	13	1340			14	670	EWH-6	3/4"	5#10	20	3	14
15						670	15		1340		16	670						16
17						670	17			1340	18	670						18
19	20	3	5#10	3/4"	EWH-2	670	19	2340			20	1670	EWH-7	3/4"	5#10	25	3	20
21						670	21		2340		22	1670						22
23						670	23			2340	24	1670						24
25	20	3	5#10	3/4"	EWH-3	1000	25	1000			26		SPARE			30	3	26
27						1000	27		1000		28							28
29						1000	29			1000	30							30
31	20	3	5#10	3/4"	EWH-4	1000	31	1000			32		SPD			30	3	32
33						1000	33		1000		34							34
35						1000	35			1000	36							36
37	25	3	5#10	3/4"	EWH-5	1670	37	8430			38	6760	PANEL LM2*			60	3	38
39						1670	39		8774		40	7104						40
41						1670	41			6350	42	4680						42

Minimum KAIC: 18 — LOCATION:

	A	B	C
PANEL SECTION CONN V A	17190	16534	12030
PANEL SECTION CONN AMPS	143	138	100
MULTISECTION CONN V A	17190	16534	12030
MULTISECTION CONN AMPS	143	138	100

NOTES
* PROVIDE DISTRIBUTION BREAKER ON BOTTOM OF PANEL.

PANEL LRDP

208 / 120 3 PH, 4 WIRE NEW — FED BY MSB VIA XLRDPA — MCB 800 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	150	3	SEE E601		PANEL LRW	7728	1	18528			2	10800	PANEL LRC		SEE E601	250	3	2
3						7728	3		18128		4	10400						4
5						7800	5			17000	6	9200						6
7	250	3	SEE E601		PANEL LRG	16700	7	49500			8	32800	PANEL LR2		SEE E601	400	3	8
9						14300	9		49100		10	34800						10
11						13600	11			44800	12	31200						12
13	100	3	SEE E601		PANEL LRE	7428	13	7428			14		SPARE			100	3	14
15						7728	15		7728		16							16
17						7728	17			7728	18							18
19	250	3	SEE E601		PANEL LRA	30584	19	30584			20		SPD			30	3	20
21						29984	21		29984		22							22
23						26856	23			26856	24							24
								0										
									0									
										0								

Minimum KAIC: 18 — LOCATION: MAIN ELECTRICAL

	A	B	C
PANEL SECTION CONN V A	106040	104940	96384
PANEL SECTION CONN AMPS	883	874	803
MULTISECTION CONN V A	106040	104940	96384
MULTISECTION CONN AMPS	883	874	803

NOTES

PANEL LRG SEC1

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDPA — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	FAP*	200	1	1200			2	1000	CORRIDOR	3/4"	3#10	20	1	2
3	20	1	#12	1/2"	ELEC R. REC	200	3		600		4	400	VENDING	3/4"	3#10	20	1	4
5	20	1	#12	1/2"	ELEC R. REC	200	5			600	6	400	VENDING	3/4"	3#10	20	1	6
7	20	1	#12	1/2"	CORRIDOR	1000	7	1400			8	400	BOOK STORE	3/4"	3#10	20	1	8
9	20	1	#12	1/2"	EWC	1000	9		1400		10	400	BOOK STORE	3/4"	3#10	20	1	10
11	20	1	#12	1/2"	BATHROOM REC	800	11			1200	12	400	BOOK STORE	3/4"	3#10	20	1	12
13	20	1	#12	1/2"	M. BATHROOM	800	13	1800			14	1000	SECURITY	3/4"	3#10	20	1	14
15	20	1	#12	1/2"	W. BATHROOM	800	15		1800		16	1000	SECURITY	3/4"	3#10	20	1	16
17	20	1	#12	1/2"	TESTING AREA	800	17			1200	18	400	STUDENT CENTER	3/4"	3#10	20	1	18
19	20	1	#12	1/2"	CAMPUS DIRECTOR	800	19	2300			20	1500	STUDNET C. TV	3/4"	3#10	20	1	20
21	20	1	#12	1/2"	PAY CNTR	400	21		1900		22	1500	STUDENT C. COMP	3/4"	3#10	20	1	22
23	20	1	#12	1/2"	PAY CNTR	400	23			1200	24	800	STUDENT C. TABLE	3/4"	3#10	20	1	24
25	20	1	#12	1/2"	RECEPTRION TV	400	25	1200			26	800	STUDENT C. TABLE	3/4"	3#10	20	1	26
27	20	1	#12	1/2"	COPY AREA	600	27		1000		28	400	EXTERIOR REC	3/4"	3#10	20	1	28
29	20	1	#12	1/2"	COPY AREA AC	400	29			1400	30	1000	DOOR POWER	3/4"	3#10	20	1	30
31	20	1	#12	1/2"	COPY AREA FRIDGE	800	31	1800			32	1000	DOOR POWER	3/4"	3#10	20	1	32
33	20	1	#12	1/2"	STUDENT SERV	1000	33		1200		34	200	ELEVATOR SHAFT	1/2"	#12	20	1	34
35	20	1	#12	1/2"	CAMPUS DIRECTOR	1000	35			1200	36	200	ELEVATOR SHAFT	1/2"	#12	20	1	36
37	20	1	#12	1/2"	EXTERIOR	800	37	800			38		SPARE			20	1	38
39	20	1			SPARE		39		0		40		SPARE			20	1	40
41	20	1			SPARE		41			0	42		SPARE			20	1	42

Minimum KAIC: 18 — LOCATION: ELEC CLOSET
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	10500	7900	6800
PANEL SECTION CONN AMPS	87	66	57
MULTISECTION CONN V A	16700	14300	13600
MULTISECTION CONN AMPS	139	119	113

NOTES
PROVIDE FEED THRU LUGS
* PROVIDE LOCKING DEVICE , RED COLOR MARKING AND LABEL TO READ "FIRE ALARM CIRCUIT"
PROVIDE ISOLATED GROUND BAR

PANEL LRG SEC2

208 / 120 3 PH, 4 WIRE NEW — FED BY LRG — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
43	20	1	#12	1/2"	JANITOR R.	200	1	200			2		1402 TEACHER	1/2"	#12	20	1	44
45	20	1	#12	1/2"	1401 REC	400	3		400		4		1402 TEACHER	1/2"	#12	20	1	46
47	20	1	#12	1/2"	1401 DESK	1000	5			1000	6		SPARE			20	1	48
49	20	1	#12	1/2"	1401 DESK	1000	7	1000			8		SPARE			20	1	50
51	20	1	#12	1/2"	1401 DESK	1000	9		1000		10		SPARE			20	1	52
53	20	1	#12	1/2"	1401 DESK	1000	11			1000	12		SPARE			20	1	54
55	20	1	#12	1/2"	1401 DESK	1000	13	1000			14		SPARE			20	1	56
57	20	1	#12	1/2"	1401 DESK	1000	15		1000		16		SPARE			20	1	58
59	20	1	#12	1/2"	1401 DESK	1000	17			1000	18		SPARE			20	1	60
61	20	1	#12	1/2"	1401 DESK	1000	19	1000			20		SPARE			20	1	62
63	20	1	#12	1/2"	1401 DESK	1000	21		1000		22		SPARE			20	1	64
65	20	1	#12	1/2"	1401 PROJ	800	23			800	24		SPARE			20	1	66
67	20	1	#12	1/2"	1401 TECH	1000	25	1000			26		SPARE			20	1	68
69	20	1	#12	1/2"	1402 DESK	1000	27		1000		28		SPARE			20	1	70
71	20	1	#12	1/2"	1402 DESK	1000	29			1000	30		SPARE			20	1	72
73	20	1	#12	1/2"	1402 DESK	1000	31	1000			32		SPARE			20	1	74
75	20	1	#12	1/2"	1402 DESK	1000	33		1000		34		SPARE			20	1	76
77	20	1	#12	1/2"	1402 DESK	1000	35			1000	36		SPARE			20	1	78
79	20	1	#12	1/2"	1402 DESK	1000	37	1000			38		SPARE			20	1	80
81	20	1	#12	1/2"	1402 DESK	1000	39		1000		40		SPARE			20	1	82
83	20	1	#12	1/2"	1402 DESK	1000	41			1000	42		SPARE			20	1	84

Minimum KAIC: 18 — LOCATION: ELECTRICAL CLOSET
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	6200	6400	6800
PANEL SECTION CONN AMPS	52	53	57
MULTISECTION CONN V A	16700	14300	13600
MULTISECTION CONN AMPS	139	119	113

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LRE

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDPA — MLO 100 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	EXTERIOR REC	600	1	1600			2	1000	ROOLING DOOR	3/4"	4#10	20	3	2
3	20	1	#12	1/2"	ELEC/PLUM REC	400	3		1400		4	1000						4
5	20	1	#12	1/2"	ELEC/PLUM REC	400	5			1400	6	1000						6
7	20	1	#12	1/2"	WATER HEATER	500	7	1500			8	1000	CONST DESK	1/2"	#12	20	1	8
9	20	1	#12	1/2"	ELEC/PLUM COMP	1000	9		2000		10	1000	CONST DESK	1/2"	#12	20	1	10
11	20	1	#12	1/2"	ELEC/PLUM COMP	1000	11			2000	12	1000	CONST TEACH	1/2"	#12	20	1	12
13	20	1	#12	1/2"	ELEC/PLUM REC	400	13	928			14	528	UH-3	3/4"	3#10	20	1	14
15	20	1	#12	1/2"	ELEC/PLUM REC	400	15		928		16	528	UH-4	3/4"	3#10	20	1	16
17	20	1	#12	1/2"	SAW FLOOR REC	400	17			928	18	528	UH-5	3/4"	3#10	20	1	18
19	20	1	#12	1/2"	ELEC/PLUM TABLE	800	19	800			20		SPARE			20	1	20
21	20	1	#12	1/2"	ELEC/PLUM TABLE	800	21		800		22		SPARE			20	1	22
23	20	1	#12	1/2"	ELEC/PLUM TABLE	800	23			800	24		SPARE			20	1	24
25	20	1	#12	1/2"	ELEC/PLUM TABLE	800	25	800			26		SPARE			20	1	26
27	20	1	#12	1/2"	ELEC STORAGE	800	27		800		28		SPARE			20	1	28
29	20	1	#12	1/2"	PLUMB STORAGE	600	29			600	30		SPARE			20	1	30
31	20	1	#12	1/2"	PLUMB/ELEC OFFICE	800	31	800			32		SPARE			20	1	32
33	20	1	#12	1/2"	PLUMB/ELEC OFFICE	800	33		800		34		SPARE			20	1	34
35	20	1	#12	1/2"	CONSTRUC PROJ	1000	35			1000	36		SPARE			20	1	36
37	20	1	#12	1/2"	CONST TEACH	1000	37	1000			38		SPARE			20	1	38
39	20	1	#12	1/2"	CONST DESK	1000	39		1000		40		SPARE			20	1	40
41	20	1	#12	1/2"	CONST DESK	1000	41			1000	42		SPARE			20	1	42

Minimum KAIC: 18 — LOCATION: ELECTRICAL CONSTRUCTION LAB
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	7428	7728	7728
PANEL SECTION CONN AMPS	62	64	64
MULTISECTION CONN V A	7428	7728	7728
MULTISECTION CONN AMPS	62	64	64

NOTES
PROVIDE ISOLATED GROUND BAR

PANEL LRC SEC1

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDP — MLO 250 AMPS FLUSH MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	1300 RECEPTION	400	1	1400			2	1000	DATA ROOM	1/2"	#12	30	2	2
3	20	1	#12	1/2"	1300 RECEPTION	400	3		1400		4	1000						
5	20	1	#12	1/2"	COSMET OFFICE	800	5			1200	6	400	DATA ROOM	3/4"	#12	20	1	6
7	20	1	#12	1/2"	COSMET OFFICE	800	7	1200			8	400	DATA ROOM	3/4"	#12	20	1	8
9	20	1	#12	1/2"	SKIN CARE REC	400	9		800		10	400	COSM LAB	1/2"	#12	20	1	10
11	20	1	#12	1/2"	SKIN CARE BED	400	11			800	12	400	COSM LAB	1/2"	#12	20	1	12
13	20	1	#12	1/2"	SKIN CARE BED	400	13	800			14	400	COSM LAB	1/2"	#12	20	1	14
15	20	1	#12	1/2"	SKIN CARE BED	400	15		800		16	400	COSM LAB	1/2"	#12	20	1	16
17	20	1	#12	1/2"	SKIN CARE BED	400	17			800	18	400	COSM LAB	1/2"	#12	20	1	18
19	20	1	#12	1/2"	MANICURE/PEDIC	400	19	800			20	400	COSM LAB	1/2"	#12	20	1	20
21	20	1	#12	1/2"	MANICURE/PEDIC	400	21		800		22	400	COSM LAB	1/2"	#12	20	1	22
23	20	1	#12	1/2"	MANICURE/PEDIC	400	23			800	24	400	COSM LAB	1/2"	#12	20	1	24
25	20	1	#12	1/2"	MANICURE/PEDIC	400	25	800			26	400	COSM LAB	1/2"	#12	20	1	26
27	20	1	#12	1/2"	MANICURE/PEDIC	400	27		800		28	400	COSM LAB	1/2"	#12	20	1	28
29	20	1	#12	1/2"	MANICURE/PEDIC	400	29			800	30	400	COSM LAB	1/2"	#12	20	1	30
31	20	1	#12	1/2"	MANICURE/PEDIC	400	31	800			32	400	COSM LAB	1/2"	#12	20	1	32
33	20	1	#12	1/2"	AV SUPPORT	400	33		800		34	400	COSM LAB	1/2"	#12	20	1	34
35	20	1	#12	1/2"	AV SUPPORT	400	35			800	36	400	COSM LAB	1/2"	#12	20	1	36
37	20	1	#12	1/2"	AV SUPPORT	400	37	800			38	400	COSM LAB	1/2"	#12	20	1	38
39	20	1	#12	1/2"	AV SUPPORT	400	39		800		40	400	COSM LAB	1/2"	#12	20	1	40
41	20	1			SPARE		41			400	42	400	COSM LAB	1/2"	#12	20	1	42

Minimum KAIC: 18 — LOCATION: PHOTO STORAGE
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	6600	6200	5600
PANEL SECTION CONN AMPS	55	52	47
MULTISECTION CONN V A	10800	10400	9200
MULTISECTION CONN AMPS	90	87	77

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LRC SEC 2

208 / 120 3 PH, 4 WIRE NEW — FED BY LRC — MLO 250 AMPS FLUSH MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
43	20	1			SPARE		43	400			44	400	COSM LAB	1/2"	#12	20	1	44
45	20	1			SPARE		45		400		46	400	COSM LAB	1/2"	#12	20	1	46
47	20	1			SPARE		47			400	48	400	COSM LAB	1/2"	#12	20	1	48
49	20	1			SPARE		49	400			50	400	COSM LAB	1/2"	#12	20	1	50
51	20	1			SPARE		51		400		52	400	COSM LAB	1/2"	#12	20	1	52
53	20	1			SPARE		53			800	54	800	COSME CLASS	1/2"	#12	20	1	54
55	20	1			SPARE		55	800			56	800	COSME PROJ	1/2"	#12	20	1	56
57	20	1			SPARE		57		1000		58	1000	COME TEACH	1/2"	#12	20	1	58
59	20	1			SPARE		59			800	60	800	COSME DESK	1/2"	#12	20	1	60
61	20	1			SPARE		61	800			62	800	COSME DESK	1/2"	#12	20	1	62
63	20	1			SPARE		63		800		64	800	COSME DESK	1/2"	#12	20	1	64
65	20	1			SPARE		65			800	66	800	COSME DESK	1/2"	#12	20	1	66
67	20	1			SPARE		67	1000			68	1000	DRYER	3/4"	4#10	30	2	68
69	20	1			SPARE		69		1000		70	1000						70
71	20	1			SPARE		71			800	72	800	WASHER	1/2"	#12	20	1	72
73	20	1			SPARE		73	800			74	800	DISPENSARY	1/2"	#12	20	1	74
75	20	1			SPARE		75		600		76	600	EXTERIOR	1/2"	#12	20	1	76
77	20	1			SPARE		77			0	78		SPARE			20	1	78
79	20	1			SPARE		79	0			80		SPARE			20	1	80
81	20	1			SPARE		81		0		82		SPARE			20	1	82
83	20	1			SPARE		83			0	84		SPARE			20	1	84

Minimum KAIC: 18 — LOCATION: PHOTO STORAGE
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	4200	4200	3600
PANEL SECTION CONN AMPS	35	35	30
MULTISECTION CONN V A	10800	10400	9200
MULTISECTION CONN AMPS	90	87	77

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LRA SEC 1

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDPB — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	ELEC ROOM	200	1	1200			2	1000	1401 LIFT	3/4"	4#10	30	2	2
3	20	1	#12	1/2"	ELEC ROOM	200	3		1200		4	1000						4
5	20	1	#12	1/2"	MAIN TELE	400	5			1400	6	1000	1401 LIFT	3/4"	4#10	30	2	6
7	20	1	#12	1/2"	MAIN TELE	400	7	1400			8	1000						8
9	20	1	#12	1/2"	MAIN TELE	400	9		1400		10	1000	1401 LIFT	3/4"	4#10	30	2	10
11	30	2	4#10	3/4"	MAIN TELE	500	11			1500	12	1000						12
						500	13	1500			14	1000	1401 LIFT	3/4"	4#10	30	2	14
15	30	2	4#10	3/4"	MAIN TELE	500	15		1500		16	1000						16
						500	17			1500	18	1000	1401 FLAT LIFT	3/4"	4#10	60	2	18
19	20	1	#12	1/2"	PUMP ROOM	400	19	1400			20	1000						20
21	20	1	#12	1/2"	PUMP ROOM	200	21		200		22		SPARE			30	2	22
23	20	1	#12	1/2"	1803 OFFICE REC	800	23			800	24							24
25	20	1	#12	1/2"	1803 OFFICE REC	800	25	1800			26	1000	ROLLING DOOR	3/4"	4#10	20	3	26
27	20	1	#12	1/2"	1801 PROJECTOR	1000	27		2000		28	1000						28
29	20	1	#12	1/2"	1801 TEACHER	1000	29			2000	30	1000						30
31	20	1	#12	1/2"	1801 DESK REC	1500	31	2500			32	1000	ROLLING DOOR	3/4"	4#10	20	3	32
33	20	1	#12	1/2"	1801 DESK REC	1500	33		2500		34	1000						34
35	20	1	#12	1/2"	1801 DESK REC	1500	35			2500	36	1000						36
37	20	1	#12	1/2"	1801 DESK REC	1500	37	2500			38	1000	ROLLING DOOR	3/4"	4#10	20	3	38
39	20	1	#12	1/2"	1801 DESK REC	1500	39		2500		40	1000						40
41	20	1	#12	1/2"	1801 DESK REC	1500	41			2500	42	1000						42

Minimum KAIC: 18 — LOCATION: AUTOMOTIVE LAB
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

	A	B	C
PANEL SECTION CONN V A	12300	11300	12200
PANEL SECTION CONN AMPS	102	94	102
MULTISECTION CONN V A	30584	29984	26856
MULTISECTION CONN AMPS	255	250	224

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
PANELBOARDS - ELECTRICAL

SHEET NO.
E8.01

PLOT DATE: 9/18/2009 11:19:09 PM — TEMPLATE VERSION: 2.1.0.20090508

DGN FILE
P:\09029\9029e802.dgn

DATE PLOTTED
19-APR-2011

REFERENCE FILES
$REF001 $REF002 $REF003 $REF004 $REF005 $REF006 $REF007 $REF008 $REF009 $REF010 $REF011 $REF012 $REF013 $REF014 $REF015 $REF016 $REF017 $REF018 $REF019 $REF020 $REF021 $REF022 $REF023 $REF024 $REF025 $REF026 $REF027 $REF028 $REF029 $REF030 $REF031 $REF032 $REF033 $REF034 $REF035 $REF036 $REF037 $REF038 $REF039 $REF040

PANEL LRA SEC 2

208 / 120 3 PH, 4 WIRE NEW — FED BY LRA — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
43	20	1	#12	1/2"	1801 DESK REC	1500	1	2500			2	1000	ROLLING DOOR	3/4"	4#10	20	3	44
45	20	1	#12	1/2"	1801 DESK REC	1500	3		2500		4	1000						46
47	20	1	#12	1/2"	1804 STORAGE	600	5			1600	6	1000						48
49	20	1	#12	1/2"	1804 STORAGE	400	7	1400			8	1000	ROLLING DOOR	3/4"	4#10	20	3	50
51	20	1	#12	1/2"	1805 TOOLS	600	9		1600		10	1000						52
53	30	2	4#10	3/4"	LIFT	1500	11			2500	12	1000						54
55						1500	13	2300			14	800	SCAN TOOL	1/2"	#12	20	1	56
57	20	2	4#10	3/4"	WASHER	1500	15		2300		16	800	SCAN TOOL	1/2"	#12	20	1	58
59						1500	17			2300	18	800	LIFT POWER	1/2"	#12	20	1	60
61	30	2	4#10	3/4"	BENDER	1700	19	2500			20	800	LIFT POWER	1/2"	#12	20	1	62
63						1700	21		2500		22	800	LIFT POWER	1/2"	#12	20	1	64
65	20	2	4#10	3/4"	BALANCE	1400	23			2200	24	800	WATER COOLER	1/2"	#12	20	1	66
67						1400	25	2200			26	800	WATER HEATER	1/2"	#12	20	1	68
69	20	2	4#10	3/4"	LATHE	1400	27		2400		28	1000	CAMPUTER ENGINE	1/2"	#12	20	1	70
71						1400	29			2200	30	800	TRANS FLUSH	1/2"	#12	20	1	72
73	50	2	3#4	1-1/4"	WELDER	3000	31	3800			32	800	COOLANT FLUSH	1/2"	#12	20	1	74
75			#10G			3000	33		3800		34	800	VALUE GRNDR	1/2"	#12	20	1	76
77	20	2			SPARE		35			800	36	800	ADAPTER	1/2"	#12	20	1	78
79							37	800			38	800	LIFT POWER	1/2"	#12	20	1	80
81	20	2			SPARE		39		800		40	800	TIRE CHANGER	1/2"	#12	20	1	82
83							41			800	42	800	GRIND	1/2"	#12	20	1	84

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	15500	15900	12400
PANEL SECTION CONN AMPS	129	132	103
MULTISECTION CONN V A	30584	29984	26856
MULTISECTION CONN AMPS	255	250	224

LOCATION: AUTOMOTIVE LAB
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
FEED THROUGH LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LRA SEC 3

208 / 120 3 PH, 4 WIRE NEW — FED BY LRA — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
85	20	1	3#10	3/4"	EF-8	528	1	1328			2	800	LIFT POWER	1/2"	#12	20	1	86
87	20	1	3#10	3/4"	EF-9	528	3		1328		4	800	LIFT POWER	1/2"	#12	20	1	88
89	20	1	3#10	3/4"	EF-10	528	5			1328	6	800	ADVISEMENT DESK	1/2"	#12	20	1	90
91	20	1	3#10	3/4"	EF-11	528	7	928			8	400	EXTERIOR REC	1/2"	#12	20	1	92
93	20	1	3#10	3/4"	EF-12	528	9		928		10	400	EXTERIOR REC	1/2"	#12	20	1	94
95	20	1	3#10	3/4"	UH-6	528	11			928	12	400	EXTERIOR REC	1/2"	#12	20	1	96
97	20	1	3#10	3/4"	UH-7	528	13	528			14		SPARE			20	1	98
99	20	1	3#10	3/4"	UH-8	528	15		528		16		SPARE			20	1	100
101	20	1			SPARE		17			0	18		SPARE			20	1	102
103	20	1			SPARE		19	0			20		SPARE			20	1	104
105	20	1			SPARE		21		0		22		SPARE			20	1	106
107	20	1			SPARE		23			0	24		SPARE			20	1	108
109	20	1			SPARE		25	0			26		SPARE			20	1	110
111	20	1			SPARE		27		0		28		SPARE			20	1	112
113	20	1			SPARE		29			0	30		SPARE			20	1	114
115	20	1			SPARE		31	0			32		SPARE			20	1	116
117	20	1			SPARE		33		0		34		SPARE			20	1	118
119	20	1			SPARE		35			0	36		SPARE			20	1	120
121	20	1			SPARE		37	0			38		SPARE			20	1	122
123	20	1			SPARE		39		0		40		SPARE			20	1	124
125	20	1			SPARE		41			0	42		SPARE			20	1	126

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	2784	2784	2256
PANEL SECTION CONN AMPS	23	23	19
MULTISECTION CONN V A	30584	29984	26856
MULTISECTION CONN AMPS	255	250	224

LOCATION: AUTOMOTIVE LAB
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
PROVIDE ISOLATED GROUND BAR

PANEL LRW

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDPA — MLO 150 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	EXTERIOR REC	400	1	1400			2	1000	ROOLING DOOR	3/4"	4#10	20	3	2
3	20	1	#12	1/2"	TABLE SAW	800	3		1800		4	1000						4
5	20	1	#12	1/2"	DRILL STATION	800	5			1800	6	1000						6
7	20	1	#12	1/2"	GRINDER	800	7	1328			8	528	UH-1	3/4"	3#10	20	1	8
9	20	1	#12	1/2"	BELT SANDER	1200	9		1728		10	528	UH-2	3/4"	3#10	20	1	10
11	20	1	#12	1/2"	M,ETAL SHEAR	1200	11			1800	12	600	RH-1	3/4"	3#10	20	1	12
13	20	1	#12	1/2"	TRACK TORCH	800	13	1400			14	600	RH-2	3/4"	3#10	20	1	14
15	20	1	#12	1/2"	PIPE TORCH	800	15		800		16		SPARE			20	1	16
17	20	1	#12	1/2"	EWC	800	17			800	18		SPARE			20	1	18
	20	1	#12	1/2"	WATER HEATER	1000	19	1000			20		SPARE			20	1	20
21	20	1	#12	1/2"	WELDING TABLE	800	21		800		22		SPARE			20	1	22
23	20	1	#12	1/2"	WELDING TABLE	800	23			800	24		SPARE			20	1	24
25	20	1	#12	1/2"	WELD STORAGE	800	25	800			26		SPARE			20	1	26
27	20	1	#12	1/2"	WELD OFFICE	800	27		800		28		SPARE			20	1	28
29	20	1	#12	1/2"	WELD CLASS	800	29			800	30		SPARE			20	1	30
31	20	1	#12	1/2"	WELD CLASS	800	31	800			32		SPARE			20	1	32
33	20	1	#12	1/2"	WELD CLASS	800	33		800		34		SPARE			20	1	34
35	20	1	#12	1/2"	WELD CLASS	800	35			800	36		SPARE			20	1	36
37	20	1	#12	1/2"	WELD PROJ	1000	37	1000			38		SPARE			20	1	38
39	20	1	#12	1/2"	WELD TEACHER	1000	39		1000		40		SPARE			20	1	40
41	20	1	#12	1/2"	WELD TEACHER	1000	41			1000	42		SPARE			20	1	42

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	7728	7728	7800
PANEL SECTION CONN AMPS	64	64	65
MULTISECTION CONN V A	7728	7728	7800
MULTISECTION CONN AMPS	64	64	65

LOCATION: MAIN ELECTRICAL
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
PROVIDE ISOLATED GROUND BAR
PROVIDE FEED THRU LUGHS

PANEL WELD

240 / 120 3 PH, 4 WIRE NEW — FED BY MSB VIA XWELD — MCB 350 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	50	2	2#4	1-1/4"	WELD STAT #1	7000	1	10450			2	3450	WELD STAT #11	1-1/4"	2#4	50	2	2
3			1#8G			7000	3		10450		4	3450			1#8G			4
5	50	2	2#4	1-1/4"	WELD STAT #2	7000	5			10450	6	3450	WELD STAT #12	1-1/4"	2#4	50	2	6
7			1#8G			7000	7	10450			8	3450			1#8G			8
9	50	2	2#4	1-1/4"	WELD STAT #3	5800	9		9250		10	3450	WELD STAT #13	1-1/4"	2#4	50	2	10
11			1#8G			5800	11			9250	12	3450			1#8G			12
13	50	2	2#4	1-1/4"	WELD STAT #4	3450	13	6900			14	3450	WELD STAT #14	1-1/4"	2#4	50	2	14
15			1#8G			3450	15		6900		16	3450			1#8G			16
17	50	2	2#4	1-1/4"	WELD STAT #5	3450	17			6900	18	3450	WELD STAT #15	1-1/4"	2#4	50	2	18
19			1#8G			3450	19	6900			20	3450			1#8G			20
21	50	2	2#4	1-1/4"	WELD STAT #6	3450	21		6900		22	3450	WELD STAT #16	1-1/4"	2#4	50	2	22
23			1#8G			3450	23			6900	24	3450			1#8G			24
25	50	2	2#4	1-1/4"	WELD STAT #7	3450	25	3450			26		SPARE			50	2	26
27			1#8G			3450	27		3450		28							28
29	50	2	2#4	1-1/4"	WELD STAT #8	3450	29			3450	30		SPARE			50	2	30
31			1#8G			3450	31	3450			32							32
33	50	2	2#4	1-1/4"	WELD STAT #9	3450	33		3450		34		SPARE			50	2	34
35			1#8G			3450	35			3450	36							36
37					SPACE		37	0			38		SPARE			50	2	38
39	50	2	2#4	1-1/4"	WELD STAT #10	3450	39		3450		40							40
41			1#8G			3450	41			3450	42		SPACE					42

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	41600	43850	43850
PANEL SECTION CONN AMPS	300	316	316
MULTISECTION CONN V A	41600	43850	43850
MULTISECTION CONN AMPS	300	316	316

LOCATION:
POWERSTYLE, APPROX. 30 INCHES WIDE, MAX 250 AMP BRANCH

NOTES
THIS IS A 240 VOLT, 3PHASE PANEL. COORDINATE WITH TRANSFORMER

PANEL HLT2

480 / 277 3 PH, 4 WIRE NEW — FED BY HLT1 — MLO 100 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	3#10	1/2"	WEST AREA	1740	1	3440			2	1700	EAST SIDE LTS	1/2"	3#10	20	1	2
3	20	1	3#10	1/2"	CORRIDOR	1600	3		2600		4	1000	CORRIDORS LTS	1/2"	3#10	20	1	4
5	20	1	3#10	1/2"	GEN COMP CLASS	1320	5			2820	6	1500	CNA MCA LABS	1/2"	3#10	20	1	6
7	20	1	3#10	1/2"	CMA/CNA LAB	1144	7	2644			8	1500	WEST SIDE LTS	1/2"	3#10	20	1	8
9	20	1	3#10	1/2"	VETECH/PHOTO R.	1500	9		2500		10	1000	UNSWITCHED	1/2"	3#10	20	1	10
11	20	1			SPARE		11			1000	12	1000	UNSWITCHED	1/2"	3#10	20	1	12
13	20	1			SPARE		13	0			14		SPARE			20	1	14
15	20	1			SPARE		15		0		16		SPARE			20	1	16
17	20	1			SPARE		17			0	18		SPARE			20	1	18
19	20	1			SPARE		19	0			20		SPARE			20	1	20
21	20	1			SPARE		21		0		22		SPARE			20	1	22
23	20	1			SPARE		23			0	24		SPACE				1	24
25	20	1			SPARE		25	0			26		SPACE				1	26
27		1			SPACE		27		0		28		SPACE				1	28
29		1			SPACE		29			0	30		SPACE				1	30
31		1			SPACE		31	0			32		SPACE				1	32
33		1			SPACE		33		0		34		SPACE				1	34
35		1			SPACE		35			0	36		SPACE				1	36
37		1			SPACE		37	0			38		SPACE				1	38
39		1			SPACE		39		0		40		SPACE				1	40
41		1			SPACE		41			0	42		SPACE				1	42

Minimum KAIC: 50

	A	B	C
PANEL SECTION CONN V A	6084	5100	3820
PANEL SECTION CONN AMPS	22	18	14
MULTISECTION CONN V A	6084	5100	3820
MULTISECTION CONN AMPS	22	18	14

LOCATION:
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES

PANEL LR2 SEC 1

208 / 120 3 PH, 4 WIRE NEW — FED BY LRDP — MLO 400 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	#12	1/2"	ELEC ROOM	400	1	1900			2	1500	MAC CLASS	1/2"	#12	20	1	2
3	20	1	#12	1/2"	ELEC ROOM	200	3		1700		4	1500	MAC C. TEACHER	1/2"	#12	20	1	4
5	20	1	#12	1/2"	CORRIDOR STORAGE	800	5			1600	6	800	MAC C. PROJECTOR	1/2"	#12	20	1	6
7	20	1	#12	1/2"	CORRIDOR	800	7	1600			8	800	STORAGE	1/2"	#12	20	1	8
9	20	1	#12	1/2"	COMP CLASS	1500	9		2500		10	1000	LAUNDRY	1/2"	#12	20	1	10
11	20	1	#12	1/2"	COMP CLASS	1500	11			2500	12	1000	WASHER	1/2"	#12	20	1	12
13	20	1	#12	1/2"	COMP CLASS	1500	13	2300			14	800	DRYER	3/4"	#10	30	2	14
15	20	1	#12	1/2"	COMP CLASS	1500	15		2300		16	800						
17	20	1	#12	1/2"	COMP CLASS	1500	17			2500	18	1000	CMA LAB DESK	1/2"	#12	20	1	18
19	20	1	#12	1/2"	COMP CLASS	1500	19	1900			20	400	CMA LAB COUNTER	1/2"	#12	20	1	20
21	20	1	#12	1/2"	COMP CLASS	1500	21		1700		22	200	CMA LAB BED	1/2"	#12	20	1	22
23	20	1	#12	1/2"	COMP CLASS	1500	23			1700	24	200	CMA LAB BED	1/2"	#12	20	1	24
25	20	1	#12	1/2"	COMP C. TEACHER	1500	25	1700			26	200	CMA LAB BED	1/2"	#12	20	1	26
27	20	1	#12	1/2"	COMP C. PROJECTOR	800	27		1000		28	200	CMA LAB BED	1/2"	#12	20	1	28
29	20	1	#12	1/2"	MAC CLASS	1500	29			2500	30	1000	CMA LAB TV	1/2"	#12	20	1	30
31	20	1	#12	1/2"	MAC CLASS	1500	31	2300			32	800	CMA LAB	1/2"	#12	20	1	32
33	20	1	#12	1/2"	MAC CLASS	1500	33		2500		34	1000	CNA LAB DESK	1/2"	#12	20	1	34
35	20	1	#12	1/2"	MAC CLASS	1500	35			1900	36	400	CMA LAB COUNTER			20	1	36
37	20	1	#12	1/2"	MAC CLASS	1500	37	1700			38	200	CMA LAB BED			20	1	38
39	20	1	#12	1/2"	MAC CLASS	1500	39		1700		40	200	CMA LAB BED			20	1	40
41	20	1	#12	1/2"	MAC CLASS	1500	41			1700	42	200	CMA LAB BED			20	1	42

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	13400	13400	14400
PANEL SECTION CONN AMPS	112	112	120
MULTISECTION CONN V A	32800	34800	31200
MULTISECTION CONN AMPS	273	290	260

LOCATION: STORAGE ROOM
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LR2 SEC 2

208 / 120 3 PH, 4 WIRE NEW — FED BY LR2 — MLO 400 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-		CD.	WIRE	TRIP	POLE	CKT
43	20	1	#12	1/2"	CNA LAB BED	200	1	1700			2	1500	PHOTO C. DESK	1/2"	#12	20	1	44
45	20	1	#12	1/2"	CNA LAB BED	200	3		1700		4	1500	PHOTO C. DESK	1/2"	#12	20	1	46
47	20	1	#12	1/2"	CNA LAB TV	1000	5			2500	6	1500	PHOTO C. DESK	1/2"	#12	20	1	48
49	20	1	#12	1/2"	CNA LAB	800	7	2300			8	1500	PHOTO C. DESK	1/2"	#12	20	1	50
51	20	1	#12	1/2"	TELECOM	800	9		2300		10	1500	PHOTO C. DESK	1/2"	#12	20	1	52
53	20	1	#12	1/2"	TELECOM	400	11			1900	12	1500	PHOTO C. DESK	1/2"	#12	20	1	54
55	30	2	4#10	3/4"	TELECOM	1000	13	2500			14	1500	PHOTO C. DESK	1/2"	#12	20	1	56
57						1000	15		2500		16	1500	PHOTO C. DESK	1/2"	#12	20	1	58
59	20	1	#12	1/2"	STORAGE	400	17			1400	18	1000	PHOTO C. TEACH	1/2"	#12	20	1	60
61	20	1	#12	1/2"	STORAGE	400	19	1200			20	800	PHOTO C. PROJ	1/2"	#12	20	1	62
63	20	1	#12	1/2"	VTECH DESK	1500	21		2300		22	800	PHOTO C. LIGTHS	1/2"	#12	20	1	64
65	20	1	#12	1/2"	VTECH DESK	1500	23			1500	24		SPARE			20	1	66
67	20	1	#12	1/2"	VTECH DESK	1500	25	1500			26		SPARE			20	1	68
69	20	1	#12	1/2"	VTECH DESK	1500	27		1500		28		SPARE			20	1	70
71	20	1	#12	1/2"	VTECH DESK	1500	29			1500	30		SPARE			20	1	72
73	20	1	#12	1/2"	VTECH DESK	1500	31	1500			32		SPARE			20	1	74
75	20	1	#12	1/2"	VTECH DESK	1500	33		1500		34		SPARE			20	1	76
77	20	1	#12	1/2"	VTECH DESK	1500	35			1500	36		SPARE			20	1	78
79	20	1	#12	1/2"	VTECH TEACH	1000	37	1000			38		SPARE			20	1	80
81	20	1	#12	1/2"	VTECH PROJ	800	39		800		40		SPARE			20	1	82
83	20	1			SPARE		41			0	42		SPARE			20	1	84

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	11700	12600	10300
PANEL SECTION CONN AMPS	97	105	86
MULTISECTION CONN V A	32800	34800	31200
MULTISECTION CONN AMPS	273	290	260

LOCATION: STORAGE ROOM
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
PROVIDE FEED THRU LUGS
PROVIDE ISOLATED GROUND BAR

PANEL LR2 SEC 3

208 / 120 3 PH, 4 WIRE NEW — FED BY LR2 — MLO 400 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-		CD.	WIRE	TRIP	POLE	CKT
85	20	1	#12	1/2"	JANITOR	600	1	2100			2	1500	LIBRARY	1/2"	#12	20	1	86
87	20	1	#12	1/2"	MEN BATHROOM	500	3		2000		4	1500	LIBRARY	1/2"	#12	20	1	88
89	20	1	#12	1/2"	WOMEN BATHROOM	500	5			700	6	200	LIBRARY	1/2"	#12	20	1	90
91	20	1	#12	1/2"	BATHROOM	400	7	800			8	400	EXTERIOR	1/2"	#12	20	1	92
93	20	1	#12	1/2"	EWC	1000	9		1200		10	200	ELEV. MACH R.	1/2"	#12	20	1	94
95	20	1	#12	1/2"	MECH ROOM	200	11			400	12	200	ELEV. MACH R.	1/2"	#12	20	1	96
97	20	1	#12	1/2"	MECH ROOM	200	13	200			14		SPARE			20	1	98
99	20	1	#12	1/2"	OFFICE	800	15		800		16		SPARE			20	1	100
101	20	1	#12	1/2"	OFFICE	800	17			800	18		SPARE			20	1	102
103	20	1	#12	1/2"	WORK ROOM PRINT	800	19	800			20		SPARE			20	1	104
105	20	1	#12	1/2"	WORK ROOM	800	21		800		22		SPARE			20	1	106
107	20	1	#12	1/2"	OFFICE	800	23			800	24		SPARE			20	1	108
109	20	1	#12	1/2"	OFFICE	800	25	800			26		SPARE			20	1	110
111	20	1	#12	1/2"	SMALL CLASS	1500	27		1500		28		SPARE			20	1	112
113	20	1	#12	1/2"	SMALL CLASS	1500	29			1500	30		SPARE			20	1	114
115	20	1	#12	1/2"	SMALL CLASS	1500	31	1500			32		SPARE			20	1	116
117	20	1	#12	1/2"	SMALL CLASS	1500	33		1500		34		SPARE			20	1	118
119	20	1	#12	1/2"	SMALL CLASS	1500	35			1500	36		SPARE			20	1	120
121	20	1	#12	1/2"	SMALL CLASS	1500	37	1500			38		SPARE			20	1	122
123	20	1	#12	1/2"	SMALL C. TEACH	1000	39		1000		40		SPARE			20	1	124
125	20	1	#12	1/2"	SMALL C. PROJ	800	41			800	42		SPARE			20	1	126

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	7700	8800	6500
PANEL SECTION CONN AMPS	64	73	54
MULTISECTION CONN V A	32800	34800	31200
MULTISECTION CONN AMPS	273	290	260

LOCATION: STORAGE ROOM
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES
PROVIDE ISOLATED GROUND BAR

PANEL LM2

208 / 120 3 PH, 4 WIRE NEW — FED BY PANEL LM1 — MLO 100 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1			EF-8		1	520			2	520	EF-13	1/2"	#12	20	1	2
3	20	1			SPARE		3		864		4	864	EF-14	1/2"	#12	20	1	4
5	20	1			SPARE		5			520	6	520	EF-15	1/2"	#12	20	1	6
7	20	1			SPARE		7	2080			8	2080	CU-1	3/4"	4#10	30	2	8
9	20	1			SPARE		9		2080		10	2080						10
11	20	1			SPARE		11			2080	12	2080	CU-2	3/4"	4#10	30	2	12
13	20	1			SPARE		13	2080			14	2080						14
15	20	1			SPARE		15		2080		16	2080	CU-4	3/4"	4#10	30	2	16
17	20	1			SPARE		17			2080	18	2080						18
19	20	1			SPARE		19	2080			20	2080	CU-5	3/4"	4#10	30	2	20
21	20	1			SPARE		21		2080		22	2080						22
23	20	1			SPARE		23			0	24		SPARE			30	2	24
25					SPACE		25	0			26							26
27					SPACE		27		0		28		SPARE			30	2	28
29					SPACE		29			0	30							30
31					SPACE		31	0			32		SPACE					32
33					SPACE		33		0		34		SPACE					34
35					SPACE		35			0	36		SPACE					36
37					SPACE		37	0			38		SPACE					38
39					SPACE		39		0		40		SPACE					40
41					SPACE		41			0	42		SPACE					42

Minimum KAIC: 18

	A	B	C
PANEL SECTION CONN V A	6760	7104	4680
PANEL SECTION CONN AMPS	56	59	39
MULTISECTION CONN V A	6760	7104	4680
MULTISECTION CONN AMPS	56	59	39

LOCATION: SECOND FLOOR ELEC ROOM

NOTES

PANEL HM2

480 / 120 3 PH, 4 WIRE NEW — FED BY HMDP — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	30	3	4#10	3/4"	RTU-3	2105	1	7772			2	5667	TU2-1,3,,4	3/4"	5#10	30	3	2
3			1#10G			2105	3		7772		4	5667						
5						2105	5			7772	6	5667						
7	30	3	4#10	3/4"	RTU-4	2105	7	8938			8	6833	TU2-5,6,7,8	3/4"	5#10	40	3	8
9			1#10G			2105	9		8938		10	6833						
11						2105	11			8938	12	6833						
13	20	3	4#10	3/4"	EF-1	1329	13	3662			14	2333	TU2-9,10	3/4"	5#10	20	3	14
15						1329	15		3662		16	2333						
17						1329	17			3662	18	2333						
19	20	3	4#10	3/4"	EF-2	1329	19	8809			20	7480	AIR COMPRESOR	1-1/4"	3#4	60	3	20
21						1329	21		8809		22	7480			1#8G			
23						1329	23			8809	24	7480						
25	20	3	4#10	3/4"	EF-3	1329	25	5329			26	4000	TU2-2	3/4"	5#10	25	3	26
27						1329	27		5329		28	4000						
29						1329	29			5329	30	4000						
31	20	3	4#10	3/4"	EF-4	300	31	5800			32	5500	TU2-11,12	3/4"	5#10	30	3	32
33						300	33		5800		34	5500						
35						300	35			5800	36	5500						
37	20	3	4#10	3/4"	EF-5	300	37	300			38		SPARE			30	3	38
39						300	39		300		40							
41						300	41			300	42							

Minimum KAIC: 50

	A	B	C
PANEL SECTION CONN V A	40610	40610	40610
PANEL SECTION CONN AMPS	147	147	147
MULTISECTION CONN V A	41210	41210	41210
MULTISECTION CONN AMPS	149	149	149

LOCATION: MECH ROOM
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES

PANEL HM2 SEC2

480 / 120 3 PH, 4 WIRE NEW — FED BY HM2 — MLO 250 AMPS SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
43	20	3	4#10	3/4"	EF-6	300	1	300			2						3	44
45						300	3		300		4							46
47						300	5			300	6							48
49	20	3	4#10	3/4"	EF-7	300	7	300			8						3	50
51						300	9		300		10							52
53						300	11			300	12							54
55							13	0			14						3	56
57							15		0		16							58
59							17			0	18							60
61							19	0			20						3	62
63							21		0		22							64
65							23			0	24							66
67							25	0			26						3	68
69							27		0		28							70
71							29			0	30							72
73							31	0			32						3	74
75							33		0		34							76
77							35			0	36							78
79							37	0			38						3	80
81							39		0		40							82
83							41			0	42							84

Minimum KAIC: 50

	A	B	C
PANEL SECTION CONN V A	600	600	600
PANEL SECTION CONN AMPS	2	2	2
MULTISECTION CONN V A	41210	41210	41210
MULTISECTION CONN AMPS	149	149	149

LOCATION: MECH ROOM
LIGHTING-REC, APPROX. 20 INCHES WIDE, MAX 100 AMP BRANCH

NOTES

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1852 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & PENNINGTON, INC.
316 CORPORATE PKWY.
MACON, GA. 31210

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

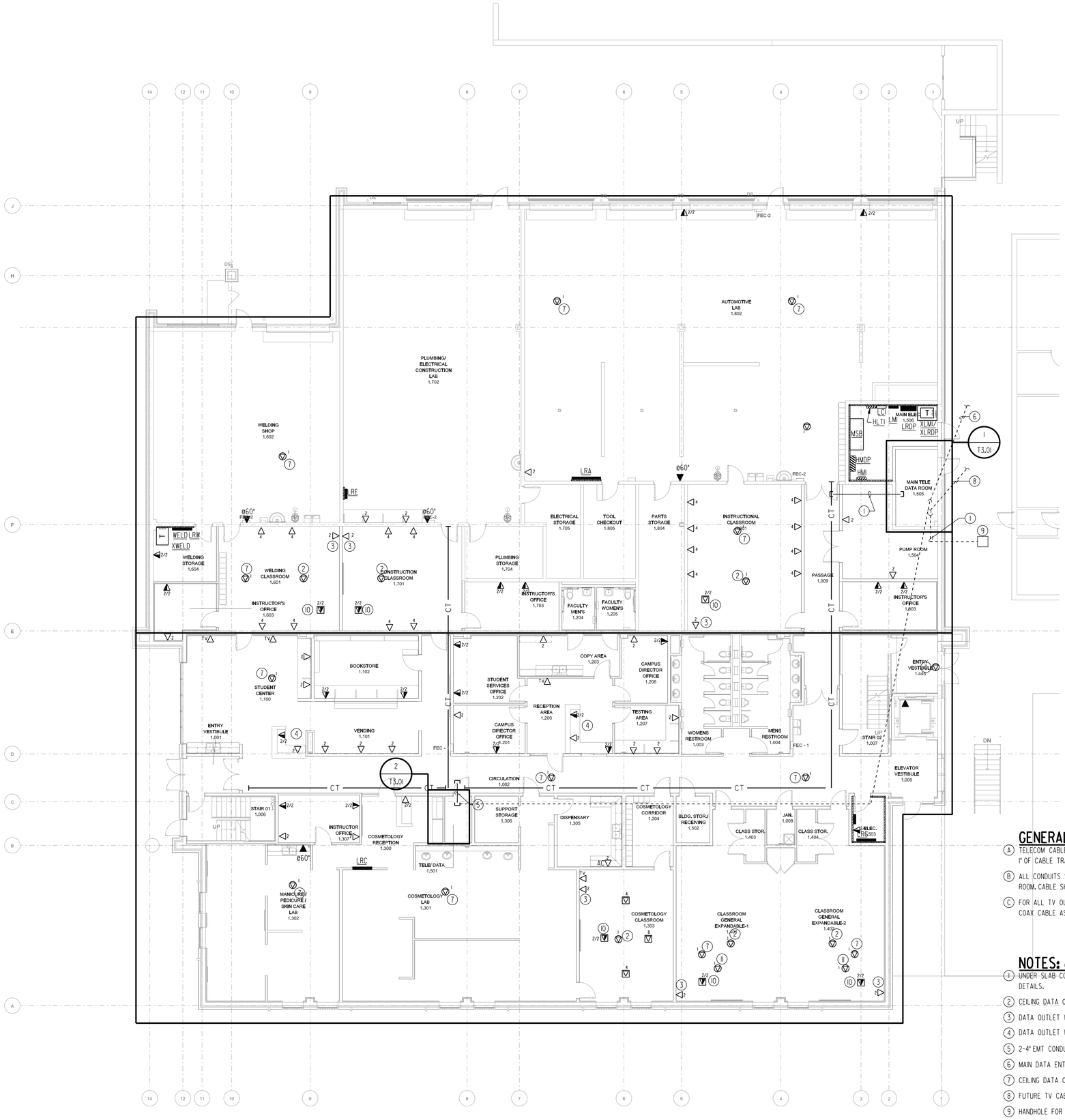
USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET
SHEET TITLE
PANELBOARDS - ELECTRICAL
SHEET NO.
E8.02

PLOT DATE: 9/18/2009 11:19:09 PM TEMPLATE VERSION: 2.1.0.20090508



I FIRST FLOOR PLAN - TELECOMMUNICATIONS

SCALE: 1/8" = 1'-0"

8 0 4 8 16

GENERAL NOTES: (THIS SHEET ONLY)

A. TELECOM CABLES SHALL BE ROUTED IN MINIMUM 1"EMT CONDUIT FROM WORK AREA OUTLETS TO WITHIN 1' OF CABLE TRAY OR TELECOM ROOM.

B. ALL CONDUITS SERVING FLOORBOXES SHALL HAVE CONDUITS ROUTED BELOW SLAB ALL THE WAY TO DATA ROOM. CABLE SHALL BE WET LOCATION LISTED.

C. FOR ALL TV OUTLETS SHOWN PROVIDE 1"EMT CONDUIT BACK TO NEAREST IDF OR TO THE MDF. INSTALL COAX CABLE AS SPECIFIED.

NOTES: (THIS SHEET ONLY)

1. UNDER SLAB CONDUITS FROM MAIN DATA ROOM TO IDF ROOMS. SEE DATA RISER ON SHEET T3.01 FOR DETAILS.
2. CEILING DATA OUTLET FOR PROJECTOR. PROVIDE 1 CAT6 DROP.
3. DATA OUTLET WITHIN AV WALLBOX. COORDINATE WITH POWER AND AV.
4. DATA OUTLET WITHIN CASEWORK ADJACENT TO POWER.
5. 2-4" EMT CONDUITS FROM DATA ROOM TO CABLE TRAY.
6. MAIN DATA ENTRY CONDUITS. SEE DATA RISER ON T3.01.
7. CEILING DATA OUTLET FOR WIRELESS INTERNET. PROVIDE 10 FEET OF EXTRA CABLE COIL ON TOP OF CEILING.
8. FUTURE TV CABLE ENTRANCE. SEE SITE PLAN.
9. HANDHOLE FOR CONDUIT TO ADULT ED. SEE SITE PLAN FOR DETAILS.
10. PROVIDE DATA OUTLET WITHIN AV FLOORBOX.
11. DATA ON CEILING FOR FUTURE SECURITY. PROVIDE 10FT OF SPARE CABLE COILED ABOVE CEILING. TERMINATE CABLE WITH RJ-45.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROOK & FENNINGTON, INC.
355 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
FIRST FLOOR PLAN - TELECOMMUNICATIONS

SHEET NO.
T2.01

DGN FILE
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DATE PLOTTED
19-APR-201

REFERENCE FILES
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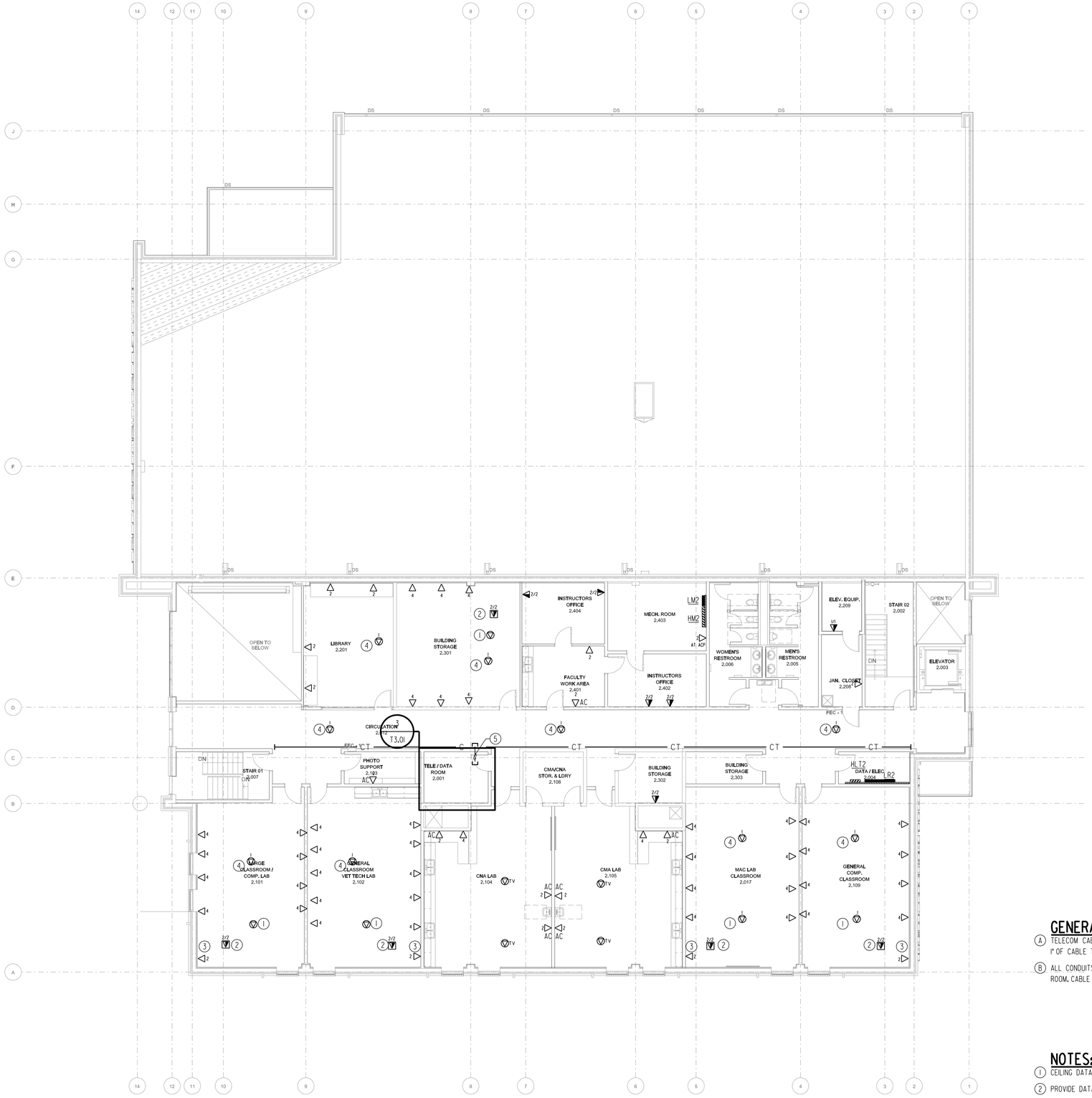

1 SECOND FLOOR PLAN - TELECOMMUNICATIONS

SCALE: 1/8" = 1'-0"

8 0 4 8 16

N

GENERAL NOTES: (THIS SHEET ONLY)

A. TELECOM CABLES SHALL BE ROUTED IN MINIMUM 1"EMT CONDUIT FROM WORK AREA OUTLETS TO WITHIN 1' OF CABLE TRAY OR TELECOM ROOM.

B. ALL CONDUITS SERVING FLOORBOXES SHALL HAVE CONDUITS ROUTED BELOW SLAB ALL THE WAY TO DATA ROOM. CABLE SHALL BE WET LOCATION LISTED.

NOTES: (THIS SHEET ONLY)

1. CEILING DATA OUTLET FOR PROJECTOR. PROVIDE 1 CAT6 DROP.
2. PROVIDE DATA OUTLET WITHIN AV FLOORBOX.
3. DATA OUTLET WITHIN AV WALLBOX. COORDINATE WITH POWER AND AV.
4. CEILING DATA OUTLET FOR WIRELESS INTERNET. PROVIDE 10 FEET OF EXTRA CABLE COIL ON TOP OF CEILING.
5. 2-4"EMT FROM DATA TO CABLE TRAY.

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WATER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NOTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

GEORGIA REGISTERED PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

BUILDING EXPANSION
LANIER TECHNICAL COLLEGE
89 TIGER CIRCLE, DAWSONVILLE, GA. 30534
PROJECT #: TCSG-236

OWNER
GEORGIA STATE
FINANCING AND INVESTMENT COMMISION
THE CONSTRUCTION DIVISION
270 WASHINGTON STREET, SECOND FLOOR
DAWSONVILLE, GA.30534

USING AGENCY
TECHNICAL COLLEGE SYSTEM OF GEORGIA
1800 CENTURY PLACE,
SUITE 400
ATLANTA, GA. 30345

KEY PLAN

REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
12528.000
DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
SECOND FLOOR PLAN - TELECOMMUNICATIONS

SHEET NO.
T2.02

PLOT DATE:
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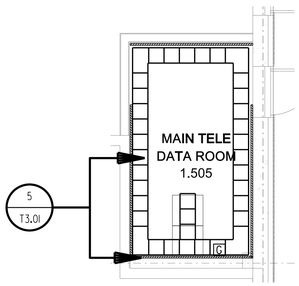
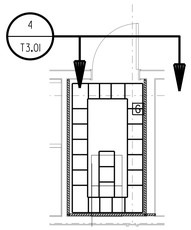
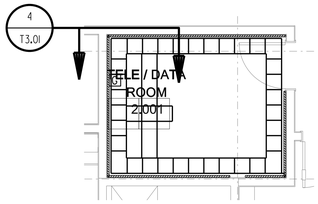


1 LARGE SCALE - MAIN TELECOM ROOM
SCALE: 1/4" = 1'-0"
4 0 2 4 8



2 LARGE SCALE - TELE/DATA ROOM
SCALE: 1/4" = 1'-0"
4 0 2 4 8



3 LARGE SCALE - TELE/DATA ROOM
SCALE: 1/4" = 1'-0"
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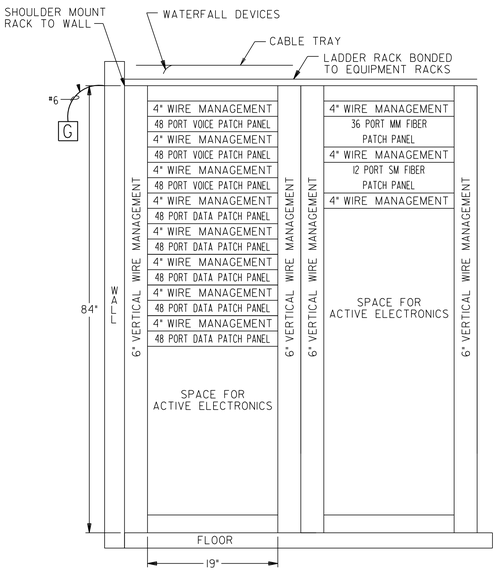
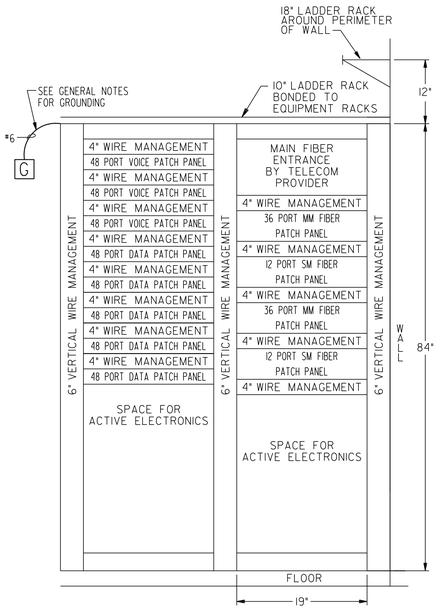


4 IDF RACK DETAIL
NO SCALE



5 MDF 1021 RACK ELEVATION
NO SCALE

GENERAL NOTES: (DETAIL 4 & 5 ONLY)

(A) PROVIDE HORIZONTAL WIRE MANAGEMENT ABOVE AND BELOW BOTH THE FRONT AND BACK OF THE PATCH PANELS. ALL WIRE MANAGEMENT SHALL HAVE REMOVABLE PROTECTIVE COVERINGS.

(B) PATCH PANEL QUANITY SHOWN IS TO INDICATE RACK PLACEMENT ONLY. PROVIDE PATCH PANELS AS REQUIRED TO TERMINATE ALL VOICE/DATA/FIBER PLUS 25% SPARE. THE NUMBER OF PATCH PANELS SHOWN MAY NOT BE ALL THAT IS REQUIRED.

(C) PROVIDE 10" LADDER RACK ATTACHED TO TOP OF EQUIPMENT RACKS AND TO THE WALL. BOND EACH EQUIPMENT RACK TO GROUND BAR IN SPACE USING #6 AWG COPPER. BOND LADDER TO RACKS AND CABLE TRAY ABOVE. USE #6 AWG COPPER.

(D) PROVIDE WATERFALL DEVICES AT ALL PLACES WHERE CABLES TRANSITION FROM CABLE TRAY TO LADDER RACKS.

(E) WITHIN THE DATA ROOMS PROVIDE FIRE RESISTANT PLYWOOD BACKBOARD ON ALL WALLS, PAINTED WITH 2 COATS OF GREY PAINT ON ALL WALLS. MOUNTED DEVICES SHALL BE MOUNTED ON THE PLYWOOD AND NOT DIRECTLY ON THE GYPBOARD WALLS.

(F) ROUTE ALL CABLE IN STRAIGHT LINES EITHER PARALLEL OR PERPENDICULAR TO BUILDING LINES.

(G) CUT THE BOLTS FOR THE EQUIPMENT RACK FLUSH WITH THE NUT AND FILE SMOOTH.

(H) BOND EQUIPMENT RACKS TO THE GROUND BAR WITH #6 AWG. USE STAR TYPE "CRUSHED" WASHERS ON BONDING POINTS TO SCRAPE PAINT AND MAKE A PROPER CONNECTION. PROVIDE JUMPERS BETWEEN CABLE TRAYS AND EQUIPMENT RACKS. DO NOT RELY ON U-BOLT CONNECTIONS FOR GROUND CONTINUITY.

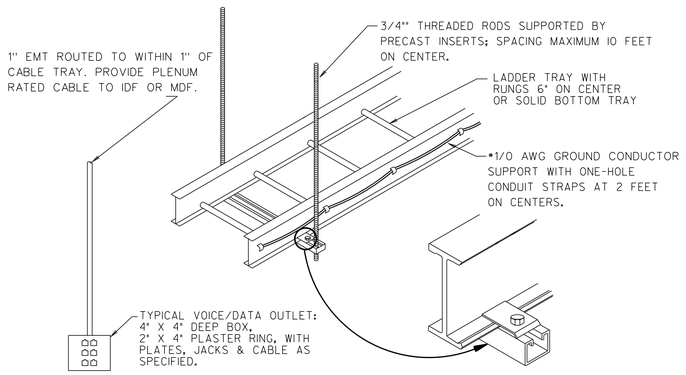
(I) ALL LABELING SHALL BE MACHINE GENERATED.

(J) WIRE MANAGEMENT MUST BE PLACED ON THE EQUIPMENT RACKS PRIOR TO CABLE INSTALLATION. CABLE TERMINATED WITHOUT THE USE OF WIRE MANAGEMENT SHALL BE RETERMINATED USING WIRE MANAGEMENT FOR SUPPORT.

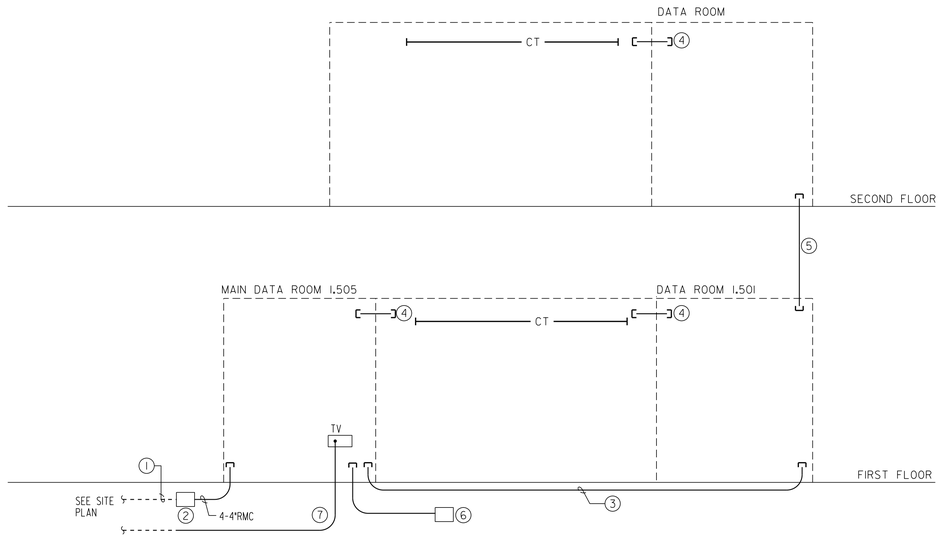
(K) REMOVE ALL DUST AND DEBRIS FROM DATA ROOMS. WIPE AREA AND CLEAR DUST PRIOR TO OCCUPATION.

(L) UTILIZE 1-1/4" INNERDUCT FOR ALL FIBER ROUTING WITH CONDUIT.

(M) WHERE CABLE IS ROUTED ALONG A WALL FOR MORE THAN 36" PROVIDE LADDER RACK OR D RINGS FOR SUPPORT. IF D RINGS ARE USED, ROUTE IN A STRAIGHT LINE.
- -TERMINATE VOICE CABLES IN SEPARATE 48 PORT PATCH PANELS IN RACK
- -WHITE FOR VOICE CABLE
- -BLUE FOR DATA CABLE
- -TERMINATE 200 PAIR CAT 3 CABLE ON WALL MOUNTED 66 BLOCKS



7 CABLE TRAY MOUNTING DETAIL
NOT TO SCALE



6 DATA RISER
NO SCALE

NOTES: (DETAIL 6 ONLY)

(1) PROVIDE 4-4" PVC 40, CONDUITS IN CONCRETE ENCASED DUCTBANK.

(2) TRANSITION BOX FROM PVC TO RMC 10 FEET FROM EDGE OF FOUNDATION.

(3) 4-4" CONDUITS TO CONNECT DATA ROOMS. PROVIDE 36 STRANDS OF MM FIBER CABLE, 12 STRAND OF SM FIBER CABLE AND 200 PAIRS OF CATEGORY 3 COPPER CABLE FOR THE MDF TO EACH IDF. PROVIDE 3 1"/4" PLENUM RATED INNERDUCTS IN TWO OF THE FOUR INCH CONDUITS. ALL FIBER CABLE SHALL BE ROUTED TRHOUGH INNERDUCTS.

(4) SLEEVES THROUGH WALL FROM DATA ROOM TO CLOSEST CABLE TRAY.

(5) 4-4" SLEEVES THROUGH FLOOR BETWEEN DATA ROOMS.

(6) PROVIDE A 36"X60X36" DEEP QUAZITE HANDHOLE WITH FOUR 4"C. TO MDF FOR FUTURE CONNECTION TO ADULT ED BUILDING. BOX SHALL HAVE OPEN BOTTOM WITH GRAVEL IN THE BOTTOM.

(7) PROVIDE RG-11 BACKBONE CABLE FOR CATV

HKS

ARCHITECT
HKS, INC.
3445 PEACHTREE ROAD, NE
SUITE 675
ATLANTA, GA. 30326

CIVIL ENGINEER
EBERLY & ASSOCIATES, INC.
1652 CENTURY PLAZA, SUITE 202
ATLANTA, GA. 30345

STRUCTURAL ENGINEER
WALTER P. MOORE
1201 PEACHTREE STREET, N.E. SUITE 1600
ATLANTA, GA. 30361-3500

MEP AND FP ENGINEERS
NUTTINGHAM, BROCK & FENNINGTON, INC.
315 CORPORATE PKWY.
MACON, GA. 31210

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DATE
APRIL 19, 2011
ISSUE
BID SET

SHEET TITLE
LARGE SCALE PLANS, DETAILS & RISER - TELECOMMUNICATIONS
SHEET NO.
T3.01