GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

DESIGN TEAM

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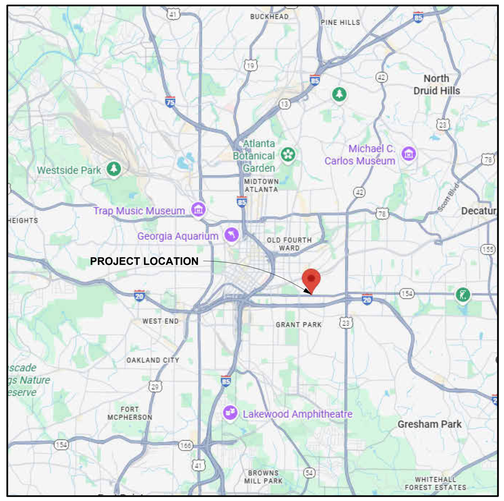
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LOCATION MAP





PROJECT SCOPE AND DESCRIPTION

GRADY EMS TRAINING PAVILION IS A NEW CONSTRUCTION OF A DETACHED OPEN CANOPY LOCATED PLAN NORTH OF THE EXISTING GRADY EMS TRAINING FACILITY AND MINOR MILLWORK / EQUIPMENT ADDITION IN THE FACULTY BREAK ROOM.

THE CANOPY WILL BE A 35'-0" X 35'-0" STEEL STRUCTURE WITH A 6'-0" BRICK BASE AT EACH COLUMN AND A 6'-0" FENCE ON THE PLAN EAST AND WEST. PERMANENT SEATING AND A CONCRETE SLAB FOR AN AMBULANCE TO DRIVE UNDER THE CANOPY WILL BE PROVIDED FOR CLASSROOM PURPOSES. THE CANOPY WILL HAVE ELECTRIC POWER, BUT NO LIGHTING WILL BE PROVIDED UNDER THE STRUCTURE AS THE SPACE WILL ONLY BE OCCUPIED DURING THE DAYTIME.

GENERAL NOTES

CONTRACT DOCUMENTS

1. THE PLANS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL.
2. THE WRITTEN SPECIFICATIONS, AND ADDENDA FOR THIS PROJECT COMPLEMENTS THE DRAWINGS, AND ARE HEREBY MADE A PART OF THESE PLANS.
3. ALL DRAWINGS AND DETAILS OF THE EXISTING CONDITIONS ARE REPRESENTATIVE OF EXISTING CONDITIONS ONLY. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF DETAILS WITH ACTUAL CONDITIONS AND COORDINATE WITH THE ARCHITECT ANY DEVIATIONS TO EXECUTE THE INTENT OF THE DOCUMENTS.

GENERAL NOTES

1. ARCHITECT SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY POSSIBLE HISTORIC OR ANTHROPOLOGIC FINDS DURING CONSTRUCTION.
2. OWNER AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY POSSIBLE ASBESTOS OR HAZARDOUS FINDS DURING CONSTRUCTION. WORK IN THE SUSPECTED AREA SHALL STOP IMMEDIATELY UNTIL THE PROPER INVESTIGATION AND ABATEMENT MEASURES CAN BE TAKEN.

DIMENSIONS

1. ALL INTERIOR DIMENSIONS SHOWN ON FLOOR PLANS FOR METAL STUD PARTITIONS ARE TO THE FACE OF FRAMING MEMBER, OR TO THE CENTERLINE OF COLUMN GRID SHOWN.
2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND JOB CONDITIONS AT THE SITE. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
3. EXTERIOR DIMENSIONS SHOWN ON FLOOR PLANS ARE TO THE FACE OF EXTERIOR WALLS OR TO THE CENTERLINE OF COLUMN GRID SHOWN.
4. DRAWINGS ARE CAD GENERATED AND HAVE THE ABILITY TO BE PRINTED AT VARIOUS SCALES; IF DIMENSIONS ARE NOT INDICATED ON THE DRAWINGS NOTIFY THE ARCHITECT AND DIMENSIONS WILL BE PROVIDED. **DO NOT SCALE DRAWINGS**.

DRAWING KEYNOTE SYSTEM:

A KEYNOTE SYSTEM IS USED ON THESE DRAWINGS FOR MATERIAL REFERENCES AND NOTES. REFER TO THE KEYNOTE LEGEND ON THE DRAWING FOR THE INFORMATION WHICH REFERS TO EACH KEYNOTE SYMBOL ON THAT RESPECTIVE DRAWING.

EACH KEYNOTE SYMBOL CONSISTS OF 6-DIGIT NUMBER FOLLOWED BY AN ALPHA NUMERICAL SUFFIX. THE 6-DIGIT NUMBER RELATES TO A SPECIFICATION SECTION WHICH GENERALLY COVERS THE ITEM THAT IS REFERENCED. THE ALPHA NUMERICAL SUFFIX COMBINED WITH THE 6-DIGIT NUMBER CREATES A KEYNOTE SYMBOL WHICH IDENTIFIES THE SPECIFIC REFERENCE NOTATION USED ON THE DRAWINGS. THE SUFFIX DOES NOT RELATE TO ANY CORRESPONDING REFERENCE LETTER OR NUMBER USED IN THE ORGANIZATION SYSTEM OF THE SPECIFICATIONS.

THE USE OF KEYNOTE REFERENCE NUMBERS ON THESE DRAWINGS IS A CONVENTION ONLY FOR DENOTING MATERIALS USED AND INCORPORATED INTO THE DRAWINGS. THESE NUMBERS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG HIS SUB-CONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.

PROJECT and CODE SUMMARY

OWNER: GRADY HEALTH SYSTEM
OWNER CONTACT: George Smith
ATLANTA, GA 30303

PROJECT ADDRESS: 235 ESTORIA ST SE ATLANTA, GA 30316

BUILDING AREA

1. FLOOR LEVELS	2. AREA (GROSS S.F.)
LEVEL 100	±1,372 SF
TOTAL	±1,372 SF

Occupancy Type	Area

PROJECT TYPE: ADDITION

SEISMIC ZONE: B

A. APPLICABLE CODES

BUILDING: INTERNATIONAL BUILDING CODE, 2024 Edition, WITH GEORGIA AMENDMENTS (2026)

MECHANICAL: INTERNATIONAL MECHANICAL CODE, 2024 Edition, WITH GEORGIA AMENDMENTS (2026)

PLUMBING: INTERNATIONAL PLUMBING CODE, 2024 Edition, WITH GEORGIA AMENDMENTS (2026)

GAS: INTERNATIONAL FUEL GAS CODE, 2024 Edition, WITH GEORGIA AMENDMENTS (2026)

ELECTRICAL: NATIONAL ELECTRIC CODE, 2023 Edition, WITH GEORGIA AMENDMENTS (2026)

FIRE: INTERNATIONAL FIRE CODE, 2018 Edition, with modifications per State Rule 120-3-3-.04; INTERIOR FINISH PER NFPA 101 2018 CHAPTER 10

ENERGY: INTERNATIONAL ENERGY CONSERVATION CODE, 2015 Edition, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020, 2022, 2022, 2023)

LIFE SAFETY: 2024 NFPA 101 - LIFE SAFETY CODE, with modifications per State Rule 120-3-3-.04

ACCESSIBILITY: GAC 120-3-20 (.01-.08)

GA CODE REFERENCE GUIDE

AREA	PRIMARY	SUPPLEMENT
OCCUPANCY CLASSIFICATION	LSC	IBC
BUILDING CONSTRUCTION TYPES INCLUDE ALLOWABLE HEIGHT , ALLOWABLE BUILDING AREAS, AND THE REQUIREMENTS FOR SPRINKLER PROTECTION RELATED TO MINIMUM BUILDING CONSTRUCTION TYPES.	IBC	LSC
MEANS OF EGRESS	LSC	NONE
STANDPIPES	IBC	IFC
INTERIOR FINISH	LSC	NONE
HVAC SYSTEMS	IMC	NONE
SPRINKLER SYSTEMS MINIMUM CONSTRUCTION STANDARD	LSC	NONE
FIRE ALARM SYSTEM	LSC	NONE
SMOKE ALARMS AND SMOKE DETECTION SYSTEMS	STATE STATUTE & LSC	NONE
PORTABLE FIRE EXTINGUISHERS	IFC	NONE
COOKING EQUIPMENT	LSC & NFPA 96	NONE
FUEL FIRED APPLIANCES	IFGC	NFPA 54
LIQUID PETROLEUM GAS	NFPA 58	NFPA 54
COMPRESSED NATURAL GAS	NFPA 52	NONE

B. BUILDING INSPECTION DEPARTMENT

Office of Buildings
55 Trinity Avenue, Suite 3900
Atlanta, Georgia 30303

		REFERENCES
C. OCCUPANCY CLASSIFICATION GROUP	-	IBC, SECTION 302 NFPA 101 CHAPTER 39
D. TYPE OF CONSTRUCTION	TYPE TYPE IIB, UNPROTECTED	IBC, TABLE 601
E. SPRINKLERED / UNSPRINKLERED	UNSPRINKLERED	NFPA 13
F. ALLOWABLE HEIGHT 1. Allowable Building Height 2. Actual Building Height	 55'-0" 27'-8"	IBC, TABLE 504.3
G. ALLOWABLE AREA 1. Area Allowed 2. Area Modifications Allowed	92,000 SQFT	IBC, TABLE 506.2 IBC, SECTION 506.2.3
H. OCCUPANT SEPARATION	N/A	IBC, SECTION 508.4
I. TENANT SEPARATION	N/A	

K. CONSTRUCTION ELEMENTS:

ITEM	CODE & SECTION	RATING (MIN.)	DESIGN NUMBER	COMMENTS
STRUCTURAL FRAME	IBC T 601	0	0	
BEARING WALLS				
EXTERIOR	IBC T 601	0	0	
INTERIOR	IBC T 601	0	0	
NON BEARING WALLS				
EXTERIOR	IBC T 602	0	0	
INTERIOR	IBC T 601	0	0	
FLOOR CONSTRUCTION	IBC T 601	0	0	
ROOF CONSTRUCTION	IBC T 601	0	0	STRUCTURE ABOVE 20 FT UNPROTECTED

CDH ARCHITECTURE
3330 Cumberland Blvd. SE
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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. LEGGETT, Jr.
REGISTRATION #
9176
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

COVER SHEET

SHEET NUMBER

G000

MASTER KEYNOTE LEGEND

042000.B02	CONCRETE MASONRY UNIT (CMU)
042000.B04	CONCRETE MASONRY UNIT
042000.B08	8" CONCRETE MASONRY UNIT
042000.B43	BRICK
042000.C02	MASONRY JOINT REINFORCEMENT
042000.C10	ADJUSTABLE ANCHOR
042000.C11	ADJUSTABLE MASONRY-VENEER ANCHOR
042000.C21	GROUT
042000.C23	BLOCK CONCRETE FILL
042000.D03	BRICK WEEP
042000.D04	BRICK WEEP WICK
042000.D05	STONE BED MORTAR STOP CNTNUOUS
047200.C09	WALL CAP
051200.A03	W-SHAPE
051200.A05	ANGLE
052100.A01	STEEL JOIST
053100.A00	STEEL DECKING
053100.B01	ROOF DECK
053100.D01	COMPOSITE FLOOR DECK
054000.E02	4" EXT NON-LOAD-BEARING WALL FRAMING
054000.E03	6" EXT NON-LOAD-BEARING WALL FRAMING
061000.D01	WOOD-PRESERVATIVE-TREATED
061053.D01	BLOCKING
061600.B15	1/2" GLASS-MAT GYPSUM WALL SHEATHING
061600.B38	1/2" PLYWOOD ROOF SHEATHING
064116	SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
064116.B02	PARTICLEBOARD CORE
064116.B03	SOFTWOOD PLYWOOD CORE
064116.E01	CABINET HARDWARE AND ACCESSORIES
066500.A00	SOLID POLYMER FABRICATIONS
066500.A03	UNDERMOUNT SINKS/BOWL
072100.B06	
072100.C01	MINERAL-WOOL INSULATION
072100.D01	LOOSE-FILL INSULATION
072419.A00	WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
072726.A02	HI-BUILD AIR BARRIER, VAPOR PERMEABLE
072726.B02	ADHESIVE-COATED TRANSITION STRIP
076200.B34	
076500.B02	RUBBERIZED ASPHALT
076500.C02	STAINLESS STEEL
076500.D02	ALUMINUM TERMINATION BAR
078443.A00	JOINT FIRESTOPPING
079200.A00	JOINT SEALANTS
079200.D01	URETHANE JOINT SEALANT
079200.L01	JOINT-SEALANT BACKING
081113.A00	HOLLOW METAL DOORS AND FRAMES
081113.C05	FRAME ANCHOR
084113.A00	ALUM-FRAMED ENTRANCE AND STOREFRONT
092216.A00	NON-STRUCTURAL METAL FRAMING
092216.C01	1-5/8 INCHES (41 MM) METAL STUD
092216.C06	METAL STUD TRACK
092216.C07	7/8" HAT-SHAPED, FURRING CHANNEL
092216.C09	RESILIENT FURRING CHANNEL
092900.B05	5/8" INTERIOR GYPSUM BOARD - TYPE X
092900.C02	CORNERBEAD
092900.C05	EXPANSION (CONTROL) JOINT
092900.D01	ACOUSTICAL SEALANT
099600.A00	HIGH-PERFORMANCE COATINGS

ABBREVIATIONS LIST

A	
A.B.	ANCHOR BOLT
A.C.T.	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
ACOUST.	ACOUSTICAL
ADJ.	ADJUSTABLE
AGG.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPLIC.	APPLICABLE
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASP.	ASPHALT
AUTO.	AUTOMATIC
AUX.	AUXILIARY
B	
B.L.	BORROWED LITE
B.S.	BOTH SIDES
B.U.R.	BUILT-UP ROOF
BD.	BOARD
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BR.	BRONZE
BRDG.	BRIDGING
BRG.	BEARING
BRK.	BRICK
BTWN.	BETWEEN
C	
C.C.	CENTER TO CENTER
C.G.	CORNER GUARD
C.I.	CAST IRON
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
C.T.	CERAMIC TILE
C.U.	CONDENSER UNIT
CAB.	CABINET
CEM.	CEMENT
CHAM.	CHAMFER
CL.	CENTER LINE
CLG.	CEILING
CLK.	CAULKING
CLO.	CLOSET
COL.	COLUMN
COMB.	COMBINATION
COMP.	COMPOSITION
CON.	CONNECTION
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
COR.	CORRIDOR
CTR.	CENTER
D	
D.A.	DOUBLE ACTING
D.C.J.	DRYWALL CONTROL JOINT
D.F.	DRINKING FOUNTAIN
D.S.	DOWN SPOUT
D.V.	DRYER VENT
DBL.	DOUBLE
DEPT.	DEPARTMENT
DIA.	DIAMETER
DIAG.	DIAGONAL
DIFF.	DIFFUSER
DIM.	DIMENSION
DISP.	DISPENSER
DIV.	DIVIDER/DIVISION
DN.	DOWN
DTL.	DETAIL
DWG.	DRAWING
E	
E.	EAST
E.F.	EXHAUST FAN
E.H.D.	ELECTRIC HAND DRYER
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
E.J.C.	EXPANSION JOINT COVER
E.P.	ELECTRIC PANEL
E.S.	EACH SIDE
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENTR.	ENTRANCE
EQ.	EQUAL
EQPT.	EQUIPMENT
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.B.	FIRE EXT. ON BRACKET
F.E.C.	FIRE EXT. CABINET
F.H.C.	FIRE HOSE CABINET
F.I.	X-RAY FILM ILLUNINATOR
F.O.C.	FACE OF CONCRETE
F.O.W.	FACE OF WALL
F.R.	FIRE RESISTIVE
F.S.	FULL SIZE
FIN.	FINISH
FIN. FLR.	FINISH FLOOR
FIN. SLAB	FINISH SLAB
FLASH.	FLASHING
FLR.	FLOOR
FLUOR.	FLUORESCENT
FT.	FOOT/FEET
FTG.	FOOTING
FURN.	FURNISH
FURR.	FURRING
FUT.	FUTURE
G	
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GA.	GAUGE
GALV.	GALVANIZED
GEN.	GENERAL
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP. BD.	GYPSUM WALL BOARD
H	
H.	HIGH
H.B.	HOSE BIB
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HDW.	HARDWARE
HDWD.	HARDWOOD
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I	
I.D.	INSIDE DIAMETER
I.P.	IRON PIPE
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
J	
J.V.	JOB VERIFY
JAN.	JANITOR
JST.	JOIST
JST. BRG.	JOIST BEARING
JT.	JOINT
K	
K.D.	KNOCK DOWN
K.O.	KNOCK OUT
L	
L.	LENGTH
LAD.	LADDER
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LKR.	LOCKER
LT.	LIGHT
LVL.	LEVEL
LVR.	LOUVER
LW.	LIGHTWEIGHT
M	
M.B.	MARKER BOARD
M.C.J.	MASONRY CONTROL JOINT
M.O.	MASONRY OPENING
MACH.	MACHINE
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTL.	METAL
MUL.	MULLION
N	
N.	NORTH
N.I.	NOT INCLUDED
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O	
O.A. DUCT	OUTSIDE AIR DUCT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVER HEAD
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
OZ.	OUNCE
P	
P.C.	PRECAST
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
P.T.D.	PAPER TOWEL DISPENSER
P.T.D./R.	PAPER TOWER DISP. / RECEPT.
P.V.C.	POLYVINYL CHLORIDE
PERF.	PERFORATED
PL.	PROPERTY LINE
PLAM.	PLASTIC LAMINATE
PLAS.	PLASTIC
PR.	PAIR
PROP.	PROPERTY
PTN.	PARTITION
PVMT.	PAVEMENT
PWD.	PLYWOOD
Q	
Q.T.	QUARRY TILE
R	
R.	RISER
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RAD.	RADIUS
REF.	REFRIGERATOR
REG.	REGISTER
REINF.	REINFORCEMENT
REQD.	REQUIRED
RESIL.	RESILIENT
RET.	RETAINING
REV.	REVISION
RF.	ROOF(ING)
RM.	ROOM
RTN.	RETURN
S	
S.	SOUTH
S.C.	SOLID CORE
S.D.	SOAP DISPENSER
S.F.	SQUARE FOOT
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKI RECEPTICLE
S.S.	STAINLESS STEEL
SAN.	SANITARY
SCHED.	SCHEDULE
SEC.	SECTION
SH.	SHELF
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SPL. BLK.	SPLASH BLOCK
SQ.	SQUARE
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENSION/SUSPENDED
SYN.	SYNTHETIC
SYS.	SYSTEM
T	
T & G	TONGUE AND GROOVE
T.	TREAD
T.O.C.	TOP OF CURB
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PAVEMENT
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.PL.	TOP OF PLATE
T.S.	TUBULAR STEEL
T.V.	TELEVISON
T/B	TOP AND BOTTOM
TELE.	TELEPHONE
TEMP.	TEMPERED
TER.	TERRAZO
THD.	THRESHOLD
THK.	THICK
TYP.	TYPICAL
U	
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS OTHERWISE NOTED
UNF.	UNFINISHED
UR.	URINAL
UTIL.	UTILITY
V	
V.C.T.	VINYL COMPOSITION TILE
V.F.	VENTILATION FAN
V.I.F.	VERIFY IN FIELD
V.T.R.	VENT THRU ROOF
V.W.C.	VINYL WALL COVERING
VERT.	VERTICAL
VEST.	VESTIBULE
VIN.	VINYL
W	
W.	WEST
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.P.	WATERPROOF
W.R.	WATER RESISTIVE
W.W.M.	WELDED WIRE MESH
W/	WITH
W/O	WITH OUT
WD.	WOOD
WSCT.	WAINSCOT
WT.	WEIGHT

DRAWING SYMBOLS LEGEND

SHEET NUMBER

A-521

SHEET NUMBER

DISCIPLINE LETTER

VIEW TITLE

GRAPHIC SHEET POSITION

GRAPHIC DESCRIPTION

A1	View Name	
A101	1/8" = 1' - 0"	A1 / A201

SHEET NUMBER

REFERENCE VIEW

GRAPHIC SCALE

NORTH ARROW

TRUE NORTH

GRAPHIC SCALE

0 2' 4' 8'

SCALE: 1" = 4'-0"

COLUMN CENTERLINE

X

EXISTING COLUMN CENTERLINE

X

SCOPE LEGEND

NEW WALL

EXISTING WALL

DEMOLISHED WALL

NOT IN SCOPE

SMOKE

1 HOUR WALL

1 HOUR SMOKE

2 HOUR

2 HOUR SMOKE

3 HOUR

3 HOUR SMOKE

ROOM NAME AND NUMBER

ROOM NAME

XXXX

DOOR TAG AND NUMBER

1063

DOOR NUMBER

TOILET LAYOUT TAG

TX

DEMOLITION NOTES TAG

D-X

NOTE, SHEET NOTE

X

TOILET ROOM ACCESSORY TAG

X

EQUIPMENT AND FURNITURE TAG

XXX

KEY NOTE

00 0000.00

WINDOW TYPE SYMBOL

X

WINDOW TYPE

PARTITION TAG

XX.X

BUILDING SECTION TAG

1 A-100

SECTION DESIGNATION

SHEET NUMBER

DETAIL/WALL SECTION TAG

1 A-100

SECTION DESIGNATION

SHEET NUMBER

PARTIAL PLAN AND DETAIL TAG

1 A-100

PLAN OR DETAIL DESIGNATION

SHEET NUMBER

EXTERIOR ELEVATION TAG

1 A-100

ELEVATION DESIGNATION

SHEET NUMBER

INTERIOR ELEVATION TAG

1 4 A-502 2 3

ELEVATION DESIGNATION

SHEET NUMBER

DRAWING REVISION

3

VERTICAL ELEVATION

LEVEL 2

FRE 18'-6"

SPOT ELEVATION

SECOND FLOOR

EL. 18'-6"

MATCH LINE

MATCH LINE

SEE XX/X-XXX

SHEET NUMBER ON WHICH CONTUNATION IS FOUND

A14 SYMBOLS LEGEND

G001 N.T.S

CDH ARCHITECTURE

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. LEGGETT JR.
REGISTRATION
9176
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

GENERAL INFORMATION

SHEET NUMBER

G001

7/27/2026 9:23:10 AM

SECTION 00 0102
PROJECT INFORMATION

PART 1 GENERAL

1.01 PROJECT IDENTIFICATION

A. Project Name: Grady Health System - EMS Training Pavilion, located at 235 Estoria St SE, Atlanta, GA 30316.

B. Architect's Project Number: Design Professional's Project Number 26031.

1.02 PROJECT DESCRIPTION

A. Summary Project Description: GHS intends to develop exterior space immediately behind the exis□ng Training Academy to: Provide exterior, covered space for various "outdoor" functions, including education/training, ambulance walk-around, staff/trainee gatherings. Improve landscape/hardscape. Connect existing lawn area to the pavilion development. Provide code required guardrails at exis□ng/former truck loading retaining wall .

SECTION 01 5000
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary utilities.

B. Temporary telecommunications services.

C. Temporary sanitary facilities.

D. Security requirements.

E. Vehicular access and parking.

F. Waste removal facilities and services.

1.02 TEMPORARY UTILITIES

A. Existing facilities may not be used.

1.03 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

1.04 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

B. Maintain daily in clean and sanitary condition.

1.05 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.06 FENCING

A. Construction: Contractor's option.

1.07 SECURITY

A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.08 VEHICULAR ACCESS AND PARKING

A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.

B. Coordinate access and haul routes with governing authorities and Owner.

C. Provide and maintain access to fire hydrants, free of obstructions.

D. Provide means of removing mud from vehicle wheels before entering streets.

E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.09 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

B. Provide containers with lids. Remove trash from site periodically.

C. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

SECTION 04 2000
UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Common brick.

B. Mortar and grout.

C. Reinforcement and anchorage.

D. Flashings.

E. Accessories.

1.02 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.

B. ASTM C62 - Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale); 2023.

C. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2025.

D. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2025b.

E. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2024.

F. ASTM C1714/C1714M - Standard Specification for Preblended Dry Mortar Mix for Unit Masonry; 2025.

G. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2025.

H. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2017.

I. BIA Technical Notes No. 13 - Ceramic Glazed Brick Exterior Walls; 2017.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Samples: Submit two samples of decorative block units to illustrate color, texture, and extremes of color range.

C. Manufacturer's Qualification Statement.

1.04 MOCK-UPS

A. Construct a masonry wall as a mock-up panel sized 2 feet (___ m) long by 2 feet (___ m) high; include mortar, accessories, structural backup, and flashings (with lap joint, corner, and end dam) in mock-up.

B. Mock-up may remain as part of work.

PART 2 PRODUCTS

2.01 BRICK UNITS

A. Building (Common) Brick: ASTM C62, Grade SW; cored units.
1. Nominal size: As indicated on drawings.

2.02 MORTAR AND GROUT MATERIALS

A. Mortar Aggregate: ASTM C144.

B. Grout Aggregate: ASTM C404.

C. Water: Clean and potable.

D. Packaged Dry Material for Mortar for Unit Masonry: Premixed Portland cement, hydrated lime, and sand; complying with ASTM C1714/C1714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.

1. Type: Type N.
2. Color: Standard gray.

2.03 REINFORCEMENT AND ANCHORAGE

A. Two-Piece Wall Ties: Formed steel wire, 0.1875 inch (4.8 mm) thick, adjustable, eye and pintle type, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to provide not less than 5/8 inch (16 mm) of mortar coverage from masonry face and to allow vertical adjustment of up to 1-1/4 in (32 mm).

B. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
1. Anchor plates: Not less than 0.075 inch (1.91 mm) thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
2. Wire ties: Manufacturer's standard shape, 0.1875 inch (4.75 mm) thick.
3. Vertical adjustment: Not less than 3-1/2 inches (89 mm).

2.04 FLASHINGS

A. Membrane Asphaltic Flashing Materials:
1. Rubberized Asphalt Flashing: Self-adhering polymer modified asphalt sheet; 40 mils (0.040 inch) (1.0 mm) minimum total thickness; 8 mil (0.20 mm) cross-laminated polyethylene bonded to adhesive rubberized asphalt, with a removable release liner.

B. Factory-Fabricated Flashing Corners and End Dams: Plastic.

C. Flashing Sealant/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.

2.05 ACCESSORIES

A. Cavity Mortar Control: Semi-rigid polyethylene or polyester mesh panels, sized to thickness of wall cavity, and designed to prevent mortar droppings from clogging weeps and cavity vents and allow proper cavity drainage.

B. Building Paper: ASTM D226/D226M, Type I ("No.15") asphalt felt.

C. Weeps:
1. Type: Polyester mesh.
2. Color(s): As selected by Architect from manufacturer's full range.

D. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive masonry.

B. Verify that related items provided under other sections are properly sized and located.

3.02 COLD AND HOT WEATHER REQUIREMENTS

A. Maintain materials and surrounding air temperature to minimum 40 degrees F (5 degrees C) prior to, during, and 48 hours after completion of masonry work.

B. Maintain materials and surrounding air temperature to maximum 90 degrees F (32 degrees C) prior to, during, and 48 hours after completion of masonry work.

3.03 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Brick Units:
1. Bond: Running.

2. Coursing: Three units and three mortar joints to equal 8 inches (200 mm).

3.04 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

3.05 WEEPS/CAVITY VENTS

A. Install weeps in veneer and cavity walls at 24 inches (600 mm) on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.06 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

3.07 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

A. Stud Back-Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 16 inches (400 mm) on center vertically and 24 inches (600 mm) on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches (200 mm) on center.

3.08 TOLERANCES

A. Maximum Variation from Alignment of Columns: 1/4 inch (6 mm).

3.09 CLEANING

A. Remove excess mortar and mortar droppings.

B. Clean soiled surfaces with cleaning solution.

SECTION 06 1000
ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sheathing.

B. Concealed wood blocking, nailers, and supports.

C. Miscellaneous wood nailers, furring, and grounds.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes as indicated on drawings, S4S.

B. Moisture Content: S-dry or MC19.

C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

2.03 CONSTRUCTION PANELS

A. Roof Sheathing: Oriented strand board wood structural panel; PS 2.
1. Grade: Structural 1 Sheathing.
2. Bond Classification: Exposure 1.
3. Performance Category: 5/8 PERF CAT.
4. Span Rating: 40/20.
5. Provide fastening guide on top panel surface with separate markings indicating fastener spacing for 16 inches (406 mm) and 24 inches (610 mm) on center, respectively.

B. Wall Sheathing: Plywood, PS 1, Grade C-C, Exterior Exposure.

2.04 ACCESSORIES

A. Metal and Finish of Fasteners:
1. Untreated Wood: Unfinished steel.

B. Subfloor Adhesives: Gap-filling construction adhesive for bonding wood structural panels to wood-based floor system framing; complying with ASTM D3498.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

3.02 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

B. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.

C. Provide nonstructural framing and blocking to support the following:
1. Cabinets and shelf supports.

3.03 INSTALLATION OF CONSTRUCTION PANELS

A. Subflooring/Underlayment Combination: Glue and nail to framing; staples are not permitted.

B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.

SECTION 06 4100
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wood casework with laminate cladding.

B. Cabinet and drawer hardware.

1.02 REFERENCE STANDARDS

A. ANSI/AWI 0641 - Architectural Wood Casework; 2019.

B. ASTM D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 2012 (Reapproved 2020).

C. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

D. PS 1 - Structural Plywood; 2023.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Shop Drawings:
1. General: Each sheet sequentially numbered and dated.
a. Sheet Size: 11 by 17 inches (280 by 430 mm).
2. AWI QCP Program Shop Drawing Requirements:
a. Plans and Elevations: Plan and elevation views of each assembly type.
1) Include rough opening dimensions and casework assembly dimensions.
b. Detailed Sections: Dimensioned section views of each casework configuration.

C. Fabricator's qualification statement.

D. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in original packaging materials bearing product identification.

B. Store products prior to installation on flat, level, clean surfaces; elevate products above floors and protect from sunlight.

PART 2 PRODUCTS

2.01 ARCHITECTURAL WOOD CASEWORK

A. Casework Finish: Wood casework with laminate cladding.

B. Provide casework and casework components in sizes and profiles as indicated on drawings.

C. Adjustable Shelves, Number of Shelves Per Cabinet Unit:
1. Base Cabinets: As indicated on drawings.

D. Scribed Fillers:
1. Finish and Materials: Same materials and finish as exposed surfaces.

2.02 WOOD CASEWORK WITH LAMINATE CLADDING

A. Casework Construction:
1. Frameless Cabinet and Door Interface: Flush overlay.
2. Stile-and Rail-Construction: Comply with performance requirements.

B. Wood Drawer Boxes with Laminate Cladding:
1. Cladding: HPDL or TFL.

C. Economy Grade - Laminate-Clad Wood Casework:

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. LEGGETT, Jr.
REGISTERED ARCHITECT
9176

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
PROJECT SPECIFICATIONS

SHEET NUMBER
G002

7/27/2026 9:22:14 AM

1. Exposed Exterior Surfaces, Panels to Receive Laminate Cladding:
   a. HPDL Panels Surface Finish: As specified.
2. Exposed Interior Surfaces at Door and Drawer Fronts:
   a. Same materials and thicknesses as exposed exterior surfaces.
3. Exposed Interior Surfaces Except Door and Drawer Fronts:

D. Edgebanding Applications for Laminate-Clad Wood Casework:
1. Drawer Box Top Edges:
   a. Visible Cores: Provide edgebanding to match drawer side.

E. Edgebanding Materials for Laminate-Clad Wood Casework:
1. Thickness: 0.02 inch (0.50 mm) minimum; 0.12 inch (3.0 mm) maximum.
2. Materials: Edgebanding at option of fabricator.
3. PVC: Well-matched to exposed face; radiused and beveled on edges and corners if thickness is greater than 0.039 inch (1.0 mm).

2.03 MANUFACTURED METAL DRAWER SYSTEMS

A. Metal Box Drawer Systems: Integrated metal drawer boxes and slides.
1. Drawer Boxes:
   a. Drawer Front Opening Height: As indicated on drawings.
2. Drawer Slides:
   a. Extension: Full extension.
   b. Closing Features: Self-closing and soft-closing.

2.04 SOLID WOOD COMPONENTS

A. Description: Components fabricated from solid wood; types include profiled components and flat panels.

2.05 HPDL-CLAD PANELS

A. Description: Panels consisting of High-Pressure Decorative Laminate (HPDL) faces applied to cores; panel layup with face ply, back ply, and core of either single ply or odd number of inner plies, to produce balanced construction panel.

B. High-Pressure Decorative Laminate (HPDL): Sheet consisting of fibrous material impregnated with thermosetting resins; bonded by high-pressure process.

2.06 THERMALLY FUSED LAMINATE PANELS

A. Description: Thermally Fused Laminate (TFL) panels with one or multiple resin-impregnated sheets of decorative paper thermally fused to panel cores, producing balanced construction.

B. Exposed Interior Surfaces, Color: White.

2.07 CONCEALED CABINET BASE COMPONENTS

A. Cabinet Base Toe-Kick Subfronts:
1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.

B. Cabinet Base Blocking and Stretchers:
1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.

C. Cabinet Base Sleepers:
1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.

2.08 WOOD AND WOOD-BASED MATERIALS

A. Plywood: Comply with PS 1.

B. Moisture-Resistant Wood: Where moisture-resistant wood is specified or indicated on drawings for cabinet base components, provide wood with thickness swelling of not more than 5 percent when tested in accordance with ASTM D1037.

2.09 CABINET AND DRAWER HARDWARE

A. Hinges, Number of Hinges for Each Cabinet Door:
1. Door Heights Under 48 inches (1200 mm): Not less than two hinges per door.

B. Cabinet Door Pulls:
1. Description: Back-mounted pulls.
2. Length: 4 inches (100 mm).
3. Material and Finish: Satin anodized aluminum.

2.10 FABRICATION

A. Shop-fabricate casework to dimensions, profiles, and details indicated on drawings.

B. Fabricate to maximum extents plausible, including doors, drawers, and hardware; fabricate units in sizes transportable through building openings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify casework and materials required for installation have been delivered, handled and stored as specified.

3.02 INSTALLATION

A. Install work of this section rigid, plumb, and level and in accordance with fabricator's documented instructions; secure casework as indicated on drawings.

B. Install cabinet hardware in accordance with hardware manufacturer's documented instructions using hardware manufacturer's furnished fasteners.

3.03 CLEANING

A. Clean exposed surfaces of casework, shelving, and hardware.

SECTION 07 4113
METAL ROOF PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal roof panel system of preformed steel panels.

1.02 RELATED REQUIREMENTS

A. Section 05 1200 - Structural Steel Framing: Roof framing and purlins.

1.03 REFERENCE STANDARDS

A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2026.

B. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2025.

C. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference; 2025.

D. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Storage and handling requirements and recommendations.
2. Installation methods.
3. Specimen warranty.

B. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions.
1. Show work to be field-fabricated or field-assembled.

C. Test Reports: Indicate compliance of metal roofing system to specified requirements.

D. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Provide strippable plastic protection on prefinished roofing panels for removal after installation.

B. Store roofing panels on project site as recommended by manufacturer to minimize damage to panels prior to installation.

1.07 FIELD CONDITIONS

A. Do not install metal roof panels, eave protection membrane or underlayment when surface, ambient air, or wind chill temperatures are below 45 degrees F (7 degrees C).

1.08 WARRANTY

A. Finish Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Metal Roof Panels: Provide complete roofing assemblies, including roof panels, clips, fasteners, connectors, and miscellaneous accessories, tested for compliance with the following minimum standards:
1. Overall: Complete weathertight system tested and approved in accordance with ASTM E1592.
2. Wind Uplift: Class 90 wind uplift resistance of UL 580.
3. Thermal Movement: Design system to accommodate without deformation anticipated thermal movement over ambient temperature range of 100 degrees F (56 degrees C).

2.02 METAL ROOF PANELS

A. Metal Roof Panels: Provide complete engineered system complying with specified requirements and capable of remaining weathertight while withstanding anticipated movement of substrate and thermally induced movement of roofing system.

B. Metal Panels: Factory-formed panels with factory-applied finish.
1. Steel Panels:
   a. Steel Thickness: Minimum 24 gauge, 0.024 inch (0.61 mm).
2. Profile: Standing seam, with minimum 1-3/4-inch (44 mm) seam height; concealed fastener system for field seaming with special tool.
3. Texture: Smooth.
4. Length: Maximum possible length to minimize lapped joints. Where lapped joints are unavoidable, space laps so that each sheet spans over three or more supports.
5. Width: Maximum panel coverage of 36 inches (914 mm).

2.03 ATTACHMENT SYSTEM

A. Concealed System: Provide manufacturer's standard stainless steel or nylon-coated aluminum concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.

2.04 FABRICATION

A. Panels: Provide factory or field fabricated panels with applied finish and accessory items, using manufacturer's standard processes as required to achieve specified appearance and performance requirements.

B. Joints: Provide captive gaskets, sealants, or separator strips at panel joints to ensure weathertight seals, eliminate metal-to-metal contact, and minimize noise from panel movements.

2.05 FINISHES

A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch (0.023 mm); color and gloss as selected by Architect from manufacturer's standard line.

2.06 ACCESSORIES

A. Miscellaneous Sheet Metal Items: Provide flashings, gutters, downspouts, trim, moldings, closure strips, caps, and equipment curbs of the same material, thickness, and finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel.

B. Rib and Ridge Closures: 1 inch (25.4 mm) high, narrow batten, close-fitting cap of steel with corrosion resistant finish, closed-cell synthetic rubber, neoprene, or PVC, combination steel and closed-cell foam, copper, or prefinished aluminum.

C. Sealants:
1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
3. Seam Sealant: Factory-applied, non-skinning, non-drying type.

D. Underlayment: Self-adhering polymer modified asphalt sheet complying with ASTM D1970/D1970M, with strippable release film and top surface of woven polypropylene sheet.
1. Sheet Thickness: 22 mils, 0.022 inch (0.55 mm), minimum.
2. Self Sealability: Nail sealability in accordance with ASTM D1970/D1970M.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Coordinate roofing work with provisions for roof drainage, flashing, trim, penetrations, and other adjoining work to ensure that completed roof will be free of leaks.

B. Remove protective film from surface of roof panels immediately prior to installation; strip film carefully to avoid damage to prefinished surfaces.

C. Separate dissimilar metals by applying a bituminous coating, self-adhering rubberized asphalt sheet, or other permanent method approved by metal roof panel manufacturer.

D. At locations where metal will be in contact with wood or other absorbent material subject to wetting, seal joints with sealing compound and apply one coat of heavy-bodied bituminous paint.

3.03 INSTALLATION

A. Overall: Install roofing system in accordance with approved shop drawings and metal roof panel manufacturer's instructions and recommendations, as applicable to specific project conditions; securely anchor components of roofing system in place allowing for thermal and structural movement.
1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.
2. Minimize field cutting of panels. Where field cutting is required, use methods that will not distort panel profiles. Use of torches for field cutting is prohibited.

B. Accessories: Install necessary components that are required for complete roofing assembly, including flashings, gutters, downspouts, trim, moldings, closure strips, preformed crickets, caps, equipment curbs, rib closures, ridge closures, and similar roof accessory items.

C. Roof Panels: Install metal roof panels in accordance with manufacturer's installation instructions, minimizing transverse joints except at junction with penetrations.

3.04 CLEANING

A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to the finish.

SECTION 09 2116
GYPSUM BOARD ASSEMBLIES

<<<< UPDATE NOTES

PART 1 GENERAL

2.01 SECTION INCLUDES

A. Gypsum wallboard.

B. Joint treatment and accessories.

2.02 RELATED REQUIREMENTS

A. Section 06 1000 - Rough Carpentry: Wood blocking product and execution requirements.

2.03 REFERENCE STANDARDS

A. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2025.

B. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.

C. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2024.

D. GA-216 - Application and Finishing of Gypsum Panel Products; 2024.

PART 2 PRODUCTS

3.01 BOARD MATERIALS

A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Thickness:
   a. Vertical Surfaces: 5/8 inch (16 mm).

3.02 GYPSUM BOARD ACCESSORIES

A. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.

PART 3 EXECUTION

4.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

4.02 FRAMING INSTALLATION

A. Blocking: Install wood blocking for support of:
1. Wall-mounted cabinets.

4.03 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

4.04 JOINT TREATMENT

A. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.

B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
2. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.

C. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).

SECTION 09 9123
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.

1.02 REFERENCE STANDARDS

A. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020 (Reapproved 2025).

B. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

1.03 SUBMITTALS

A. Samples: Submit two paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.

1.04 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Provide lighting level of 80 fc (860 lux) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

B. Colors: To be selected from manufacturer's full range of available colors.
1. Selection to be made by Architect after award of contract.

2.03 PAINT SYSTEMS - INTERIOR

A. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board and wood.
1. Two top coats and one coat primer.

2.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
1. Alkali Resistant Water Based Primer; MPI #3 or 3 X-Green.

2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Test shop-applied primer for compatibility with subsequent cover materials.

D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

E. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.

F. Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

C. Apply each coat to uniform appearance in thicknesses specified by manufacturer.

D. Sand wood and metal surfaces lightly between coats to achieve required finish.

E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. EGGERT JR.
REGISTRATION
9176
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
PROJECT SPECIFICATIONS

SHEET NUMBER
G003

7/27/2026 9:22:19 AM

SECTION 09 9600
HIGH-PERFORMANCE COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. High performance coatings.
B. Surface preparation.

1.02 REFERENCE STANDARDS

A. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.
B. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).
C. SSPC-SP 2 - Hand Tool Cleaning; 2024.
D. SSPC-SP 6/NACE No.3 - Commercial Blast Cleaning; 2006.

1.03 SUBMITTALS

A. Product Data: Provide complete list of all products to be used, with the following information for each:
   1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
   2. Manufacturer's installation instructions.
B. Samples: Submit two samples 8 by 8 inch (203 by 203 mm) in size illustrating colors available for selection.

1.04 MOCK-UPS

A. Locate where directed.
B. Mock-up may remain as part of the work.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
B. Container Label: Include manufacturer's name, type of coating, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
C. Coating Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not install materials when temperature is below 55 degrees F (13 degrees C) or above 90 degrees F (32 degrees C).
B. Maintain this temperature range, 24 hours before, during, and 72 hours after installation of coating.
C. Restrict traffic from area where coating is being applied or is curing.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide high performance coating products from the same manufacturer to the greatest extent possible.
   1. In the event that a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.

2.02 TOP COAT MATERIALS

A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the specified applications and thicknesses; number of coats specified does not include primer or filler coat.

B. Latex Coating:
   1. Number of Coats: Two.
   2. Top Coat(s): Acrylic, High Dispersion.
   3. Primer: As recommended by coating manufacturer for specific substrate.
C. Shellac: Pure, white type.

2.03 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of coated surfaces.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.
B. Do not begin application of coatings until substrates have been properly prepared.
C. Verify that substrate surfaces are ready to receive work as instructed by the coating manufacturer. Obtain and follow manufacturer's instructions for examination and testing of substrates.
D. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

3.02 PREPARATION

A. Clean surfaces of loose foreign matter.
B. Remove substances that would bleed through finished coatings. If unremovable, seal surface with shellac.
C. Remove finish hardware, fixture covers, and accessories and store.
D. Galvanized Surfaces:
   1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
   2. Prepare surface according to SSPC-SP 2.
E. Ferrous Metal:
   1. Solvent clean according to SSPC-SP 1.
   2. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning in accordance with SSPC-SP 6/NACE No.3, and protect from corrosion until coated.

3.03 PRIMING

A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

3.04 COATING APPLICATION

A. Apply coatings in accordance with manufacturer's written instructions, to thicknesses specified and recommendations in MPI - Architectural Painting and Specification Manual.
B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

3.05 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
B. Clean surfaces immediately of overspray, splatter, and excess material.
C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. LEGGETT Jr.
REGISTRATION
9176
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
PROJECT SPECIFICATIONS

SHEET NUMBER
G004

7/27/2026 9:23:17 AM

SITE DEVELOPMENT PLANS FOR

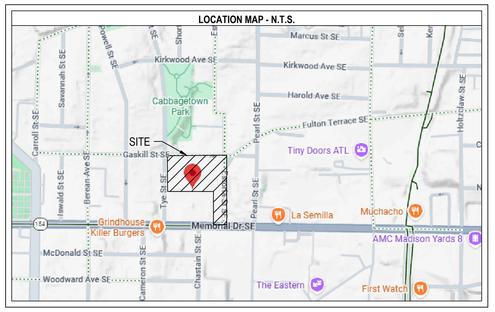
GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE, ATLANTA, GA 30316

SITE DATA
ZONING USE: HC-20A SA5
TOTAL AREA: 3.08 ACRES
DISTURBED AREA: 0.1 ACRES
FULTON COUNTY, GA
LAND LOT: 110 DISTRICT 14
PARCEL ID(S): 14 002000110012

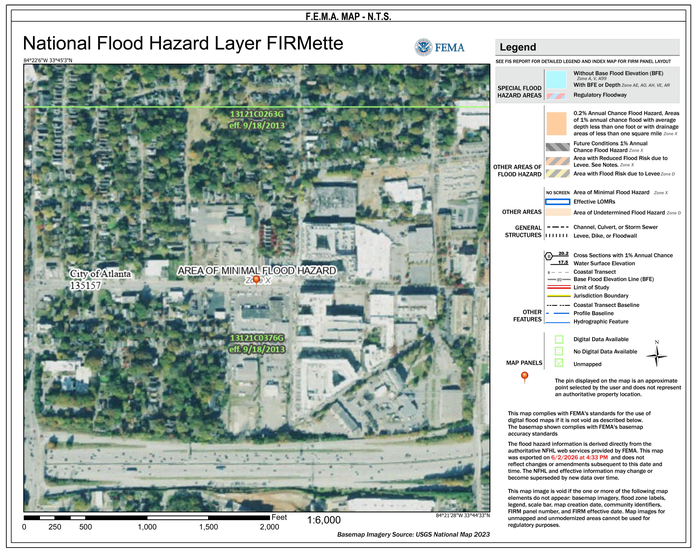
PROPOSED IMPERVIOUS COVER: 0.036 ACRES

LOCATION MAP - N.T.S.



CORNER OF MEMORIAL DRIVE & ESTORIA STREET, ATLANTA GA
33°44'51.8"N 84°21'50.1"W

F.E.M.A. MAP - N.T.S.



A PORTION OF THIS PROPERTY LIES IN THE FLOOD HAZARD ZONE X AS PER
THE FULTON COUNTY F.I.R.M. NO. 13121C0376G DATED 03 / 18 / 2013

PROJECT DESCRIPTION

THE PROPOSED PROJECT IS LOCATED IN THE 14TH DISTRICT, LAND LOT 110, PARCEL 14 002000110012 OF FULTON COUNTY GEORGIA. THE SITE IS MORE PARTICULARLY LOCATED AT 235 ESTORIA ST SE ATLANTA, GEORGIA. THE PROPOSED CONSTRUCTION CONSISTS OF THE INSTALLATION OF A TRAINING PAVILION PAD.

SHEET INDEX

SHEET NUMBER	SHEET NAME
C1.0	COVER SHEET & GENERAL NOTES
C2.0	OVERALL SITE, DEMOLITION, LAYOUT, & GRADING PLAN
EC1.0	ES&PC NOTES
EC1.1	ES&PC NOTES
EC1.2	ES&PC NOTES
EC2.0	INITIAL, INTERMEDIATE, & FINAL ES&PC PLAN

LEGEND

- PROPOSED GDOT ASPHALT PAVING
- PROPOSED L.D. ASPHALT PAVING
- PROPOSED H.D. ASPHALT PAVING
- PROPOSED CONCRETE PAVING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- PROPOSED STRIPING
- (10) PARKING COUNT
- EXISTING CONTOURS
- PROPOSED CONTOURS
- BW: 101.1 / 01.1 SPOT ELEVATIONS
- PROPOSED RETAINING WALL
- DRAINAGE FLOW DIRECTION
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- STORM STRUCTURES HW, SWCB, OCS
- JB, V-HDI, V-DI, PI
- G-HDI, G-DI, FES
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING FORCEMAIN
- PROPOSED FORCEMAIN
- EXISTING WATER / FIRE LINE
- PROPOSED WATER / FIRE LINE
- WATER METERS / BFPS
- WATER VALVE / FIRE HYDRANT / TEE / PIV / FDC
- LIMITS OF DISTURBANCE

GENERAL NOTES

1. THE DISTURBED ACREAGE OF THE SITE IS 3.08 ACRES.
2. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND WAYS, MEANS AND METHODS OF CONSTRUCTION.
4. PROVIDE AND MAINTAIN OFF-STREET PARKING THROUGHOUT CONSTRUCTION IN AREAS DESIGNATED BY THE OWNER.
5. 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.
6. COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES AND OBTAIN ALL NECESSARY LICENSES AND PERMITS.
7. 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.
8. CONFINE OFF-SITE ACTIVITIES TO EXISTING RIGHTS OF WAY AND EASEMENTS.
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 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.
11. DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE MAY CAUSE THE WORK TO BE UNACCEPTABLE.
12. THE TOPOGRAPHIC INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY FROM OWNER.
13. THE BOUNDARY INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY FROM OWNER.
14. PROJECT BENCHMARK: PLEASE REFER TO THE SIGNED AND SEALED SURVEY.
15. VERIFY EXISTING TOPOGRAPHIC DATA, LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
16. VERIFY BUILDING DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIELD STAKING.
17. CHECK ALL BUILDING DIMENSIONS AND COORDINATE WITH THE ARCHITECTURAL PLANS.
18. FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
19. PROVIDE SIGNING AND STRIPING ACCORDING TO LOCAL JURISDICTION SPECIFICATIONS.
20. PAINT PAVEMENT MARKING, INCLUDING STANDARD HANDICAP SYMBOLS, PARKING STRIPING AND TRAFFIC ARROWS, ON PAVEMENT AT LOCATIONS SHOWN. SEE PAVEMENT MARKING DETAIL.
21. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.
22. CALL UTILITIES PROTECTION CENTER 811.
23. 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.
24. FIELD VERIFY LOCATION AND INVERTS OF EXISTING SANITARY SEWER FOR CONNECTION TO EXISTING SEWER SYSTEM.
25. COORDINATE WITH BUILDING PLUMBING PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
26. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
27. UNDERGROUND FIRE PROTECTION SPRINKLER PIPING SHOWN DOWNSTREAM OF AN INTERNAL OR EXTERNAL FIRE PUMP IS SHOWN FOR REFERENCE ONLY. ACTUAL FIRE MAIN DESIGN SHALL BE PERFORMED BY A LICENSED FIRE PROTECTION ENGINEER. FIRE MAIN DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO: SPECIFICATION OF PIPE MATERIAL AND CLASS, JOINTS, THRUST BLOCKING DESIGN, VALVE FREQUENCY, PLACEMENT, AND APPURTENANCES. ALL FIRE PROTECTION SYSTEMS SHALL COMPLY WITH NFPA SECTION 6.6 REGARDING SECTIONAL VALVES UNLESS OTHERWISE SPECIFIED BY THE FIRE PROTECTION ENGINEER. PLEASE REFER TO THE FIRE PROTECTION ENGINEER'S PLANS AND SPECIFICATIONS FOR DRAWINGS AND DETAILS. INSTALL FIRE MAIN SYSTEM ONLY AFTER FIRE DEPARTMENT APPROVAL OF FIRE PROTECTION CONTRACTOR'S PLANS.
28. INSTALL GATE VALVES IN HEAVY DUTY ROADWAY VALVE BOXES FOR ALL WATER VALVES.
29. INSTALL HYDRANTS AND MAINS UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.
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. ALL CONTRACTOR SHALL FOLLOW ALL MINIMUM RECOMMENDATIONS AND SPECIFICATIONS FOR SITE PREPARATION AND GRADING CONTAINED IN THE REPORT OF GEOTECHNICAL INVESTIGATION PREPARED BY FROM OWNER.
32. CUT AND FILL SLOPES 2:1 OR FLATTER (SEE PLANS).
33. 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.
34. REFER TO TREE PROTECTION PLANS FOR TREE CLEARING LIMITS.
35. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO CONSTRUCTION ACTIVITIES.
36. 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.
37. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
38. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.
39. GRASS AND RIP RAP ALL OPEN DRAINAGE SWALES AS NECESSARY TO CONTROL EROSION.
40. 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.

LEVEL II CERTIFICATION

GEORGIA SOIL AND WATER CONSERVATION COMMISSION
JEREMIAH PHILLIPS
LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER 0000072147
ISSUED: 08/29/2014
EXPIRES: 08/29/2026

OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTEMS
80 JESSE HILL JR., DRIVE SE
ATLANTA, GA 30303
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GCSMITH@GMH.EDU

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GEORGIA ENGINEERING FIRM #PEF009029 | GEORGIA SURVEYING FIRM #LSF001506

GRADY HEALTH SYSTEM
GRADY EMS
TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 25-341 - 000

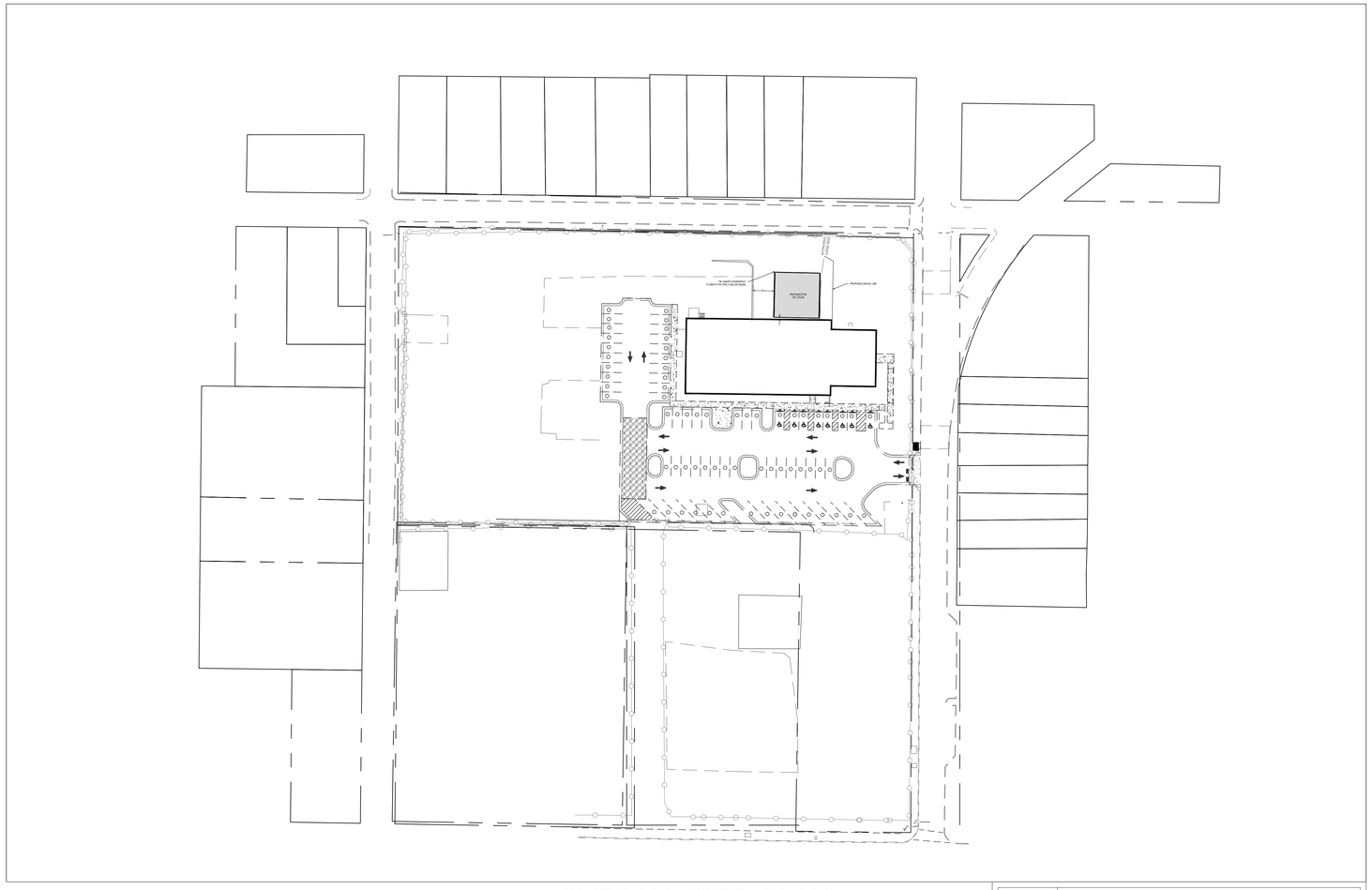
01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEREMIAH CASON PHILLIPS

1	DOWNSPOUT CONNECTION UPDATE	7/1/26

SHEET TITLE
COVER SHEET AND GENERAL NOTES

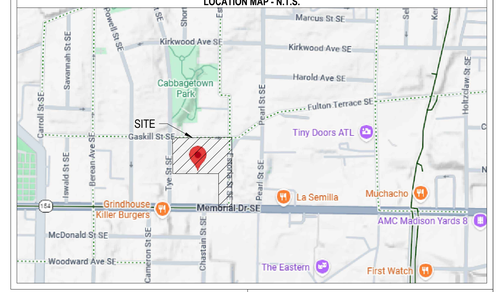
SHEET NUMBER
C1.0



OVERALL SITE PLAN
SCALE:1"=50'

GRAPHIC SCALE
-50 0 25 50 100 200
(IN FEET)
1 INCH = 50 FT.

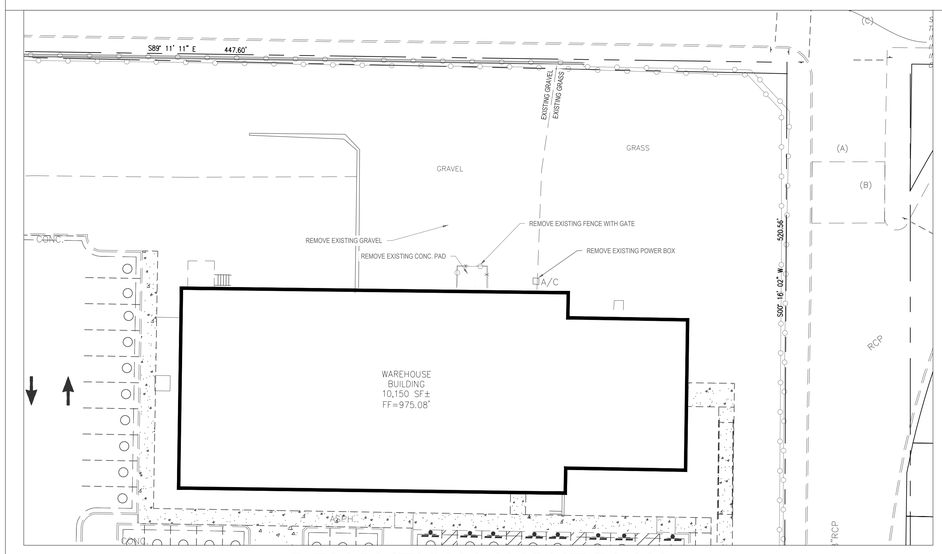
LOCATION MAP - N.T.S.



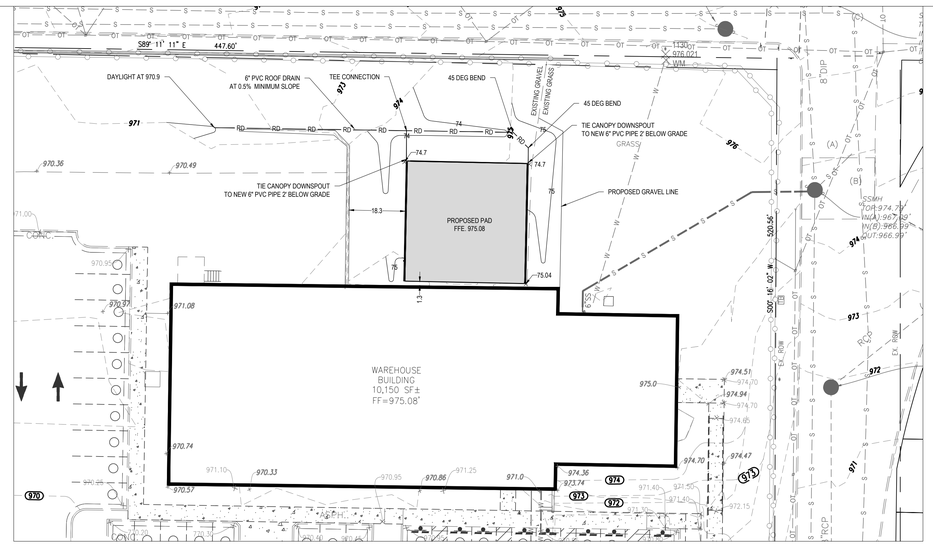
SITE DATA
ZONING USE: HC-20A SA5
TOTAL AREA: 3.08 ACRES
DISTURBED AREA: 0.1 ACRES
FULTON COUNTY, GA
LAND LOT 110 DISTRICT 14
PARCEL ID(S): 14 002001110012

PROPOSED IMPERVIOUS COVER: 0.036 ACRES

LAYOUT LEGEND
PROPOSED BUILDING
EXISTING CURB & GUTTER



DEMOLITION LAYOUT PLAN
SCALE:1"=20'



SITE LAYOUT & GRADING PLAN
SCALE:1"=20'

GRAPHIC SCALE
-20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FT.

OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTE
80 JESSE HILL JR. DRIVE SE
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GEORGIA ENGINEERING FIRM #PEF009029 | GEORGIA SURVEYING FIRM #LSF001506

GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 25-341 - 000

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEREMIAH JASON PHILLIPS NO. 035827

1	DOWNSPOUT CONNECTION UPDATE	7/1/26

SHEET TITLE
OVERALL SITE, LAYOUT, & GRADING PLAN

SHEET NUMBER
C2.0

GENERAL SOIL EROSION & SEDIMENTATION CONTROL NOTES

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 SLT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE 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 NECESSERY 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:
    - 13.A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.
    - 13.B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
    - 13.C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS
    - 13.D. PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES.
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.

INITIAL SOIL EROSION & SEDIMENTATION 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 50 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.
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. 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 MAYSE UTILIZED AS BARRIER BRUSH SEDIMENT CONTROL.
14. ADDITIONAL SLT 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 SEDIMENT 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 "VEGETATIVE 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 & SEDIMENTATION 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 DEVICES 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 CONTRACTORS RESPONSIBILITY 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. 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 OF FENCE.
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 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 SEDIMENT 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 & SEDIMENTATION 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 SEDIMENT 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 PROPRIATE 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.

RUNOFF ESTIMATION INFORMATION

ITEM # P5

BASIN NO.	PRE-DEV (100 - YEAR) CFS	POST-DEV (100 - YEAR) CFS

ITEM # P5

TOTAL SITE AREA = 3.08 ACRES
DISTURBED AREA = 0.1 ACRES

ITEM # P5

WASTE MATERIALS

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

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 SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR MAKING SURE THAT THESE PRACTICES 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, PARTICULARLY 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 STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL 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 SUPERINTENDENT 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 FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD 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.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL FULTON COUNTY 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 TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS 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 # P5

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 GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IF GEORGIA. 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.

SPILL CONTROL PRACTICES USED TO REDUCE POLLUTANTS

ITEM # P5

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 ANUFACTURER. 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 MANUFACTURERS 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, MOPS, 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.
10. ALL FUEL STORAGE SHALL BE PROVIDED OFFSITE. ALL FUELING AND EQUIPMENT STORAGE SHALL BE PERFORMED AT THE DESIGNATED LOCATION SHOWN ON THE PLANS. A COVERED 55 GALLON DRUM AND A SHOVEL SHALL BE PLACED AT THIS LOCATION. ALL SPILLS DURING FUELING OF LEAKS FROM THE EQUIPMENT SHALL BE REMOVED TO FULL DEPTH OF SOIL CONTAMINATION AND THE SOIL SHALL BE PLACED IN THE DRUM. WHEN THE DRUM IS FULL, DISPOSE OF DRUM PROPERLY IN AN APPROVED ENVIRONMENTAL PROTECTION AGENCY (EPA) HAZARDOUS LAND FILL. FOR SPILLS 25 GALLONS AND GREATER MUST BE REPORTED T O THE EPA AT 1-800-241-4113 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802. THESE PLANS DO NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS MATERIALS OR OILS RESULTING FROM AN ONSITE SPILL.

ITEM # P5

BUILDING MATERIAL STORAGE

PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE. COVER WILL BE UTILIZED TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO NEGATE STORMWATER DISCHARGE OF POLLUTANTS FROM THESE AREAS.

ITEM # P5

THE DESIGN PROFESSIONAL WHO PREPARED THE ES⅋PC PLAN IS TO INSPECT THE INSTALATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

ITEM # P5

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

ITEM # P5

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 # P5

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ITEM # P5

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

ITEM # P5

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 & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY

ITEM # P5

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

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

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

ITEM # P5

NARRATIVE:

THE PROPOSED PROJECT IS LOCATED IN THE 14TH DISTRICT, LAND LOT(S) 110, PARCEL ID 14 002000110012; OF FULTON COUNTY, GEORGIA. THE SITE IS MORE PARTICULARLY LOCATED AT 235 ESTORIA ST SE ATLANTA, GEORGIA. THE PROPOSED CONSTRUCTION CONSISTS OF THE INSTALLATION OF A PAVILION PAD.

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. GRADING OPERATIONS WILL BEGIN AFTER THE CLEARING AND GRUBBING IS COMPLETE. THE BMPS FOR THIS PHASE WILL INCLUDE THE INSTALLATION OF, GRASSING, AND MAINTAINING THE INTIAL BMPS, PERVIOUS AREAS WILL BE SEEDED WITH PERMANENT GRASSING. STORMWATER DRAINAGE SYSTEMS WILL BE INSTALLED TO CONTROL STORMWATER RUN-OFF AFTER CONSTRUCTION IS COMPLETE.

ITEM # P5

THE SITE IS CURRENTLY DEVELOPED WITH MULTIPLE STRUCTURE ON THE PROPERTY. THE SITE HAS SLOPES RANGING FROM 1% TO 5%. THE ADJACENT AREAS INCLUDE AND EXISTING BUILDING TO THE NORTH AND SOUTH, ATLANTA BELTLINE TO THE WEST, AND WHITE STREET TO THE EAST OF THE PROPERTY.

ITEM # P5

RECEIVING WATERS:

THE RECEIVING WATERS FOR THE PROJECT SITE IS THE NEARBY, EXISTING STORMWATER NETWORK.

ITEM # P5 ITEM # P6

A PORTION OF THIS PROPERTY DOES LIE WITHIN THE FLOOD HAZARD ZONE X, AS PER THE FULTON COUNTY F.I.R.M. COMMUNITY PANEL NO. 13121C0376G DATED 03/18/2013.

THE STORM WATER FROM THIS SITE DOES DISCHARGE INTO AN IMPAIRED STREAM SEGMENT, OR IS LOCATED WITH IN 1 LINEAR MILE UPSTREAM OF OR WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT. (INTRENCHMENT CREEK).

ITEM # P5

STATE WATERS WERE NOT LOCATED ON THE SITE.
THERE ARE NO WETLANDS LOCATED ON THE SITE.

SEDIMENTATION BASIN STATEMENT:

ITEM # P5

NO SEDIMENT BASIN WILL BE PROVIDED BECAUSE LESS THAN 1 ACRE IS BEING DISTURBED.

STORMWATER MANAGEMENT STATEMENT:

ITEM # P5

RAINFALL ACROSS IMPERVIOUS AREAS WILL PASS THROUGH AN UNDERSROUND SYSTEM WITH INFILTRATION, TO BE TREATED BY FILTRATION AND DISCHARGED INTO A STORMWATER NETWORK. LANDSCAPED AREAS, VEGETATED STRIPS AND ASSOCIATED BUFFER WILL FURTHER FILTER STORMWATER AND PROVIDE INFILTRATION AND TREATMENT.

ITEM # P5

BUFFER ENCROACHMENT

NO BUFFER ENCROACHMENT LOCATED ON SITE.

GPS LOCATION OF CONSTRUCTION ENTRANCE(S)

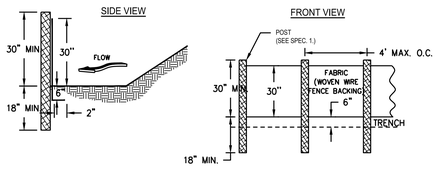
33°44'48.4"N 84°21'49.6"W

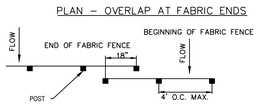
ITEM # P5

SOIL TYPES

| SYMBOL | SOIL NAME | DEPTH (inches) | ERODIBILITY | PERMEABILITY (inches / hour) | TEXTURE |

TYPE C SILT FENCE





NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER.

MAINTENANCE:
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.

SEDIMENT BARRIERS SHALL BE REPLACED WHENEVER THEY HAVE DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE PRODUCT IS REDUCED (APPROXIMATELY SIX MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING BOX OF ITS PROPERLY INSTALLED HEIGHT.

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.

TABLE 6-27.2 POST SIZE

TYPE	MIN LENGTH	TYPE OF POST	SIZE OF POST
S	4'	STEEL OAK	1.15-1.25 LB./ FT. MIN 2"X2"

TABLE 6-27.3 FASTENERS FOR WOOD POSTS

	GAUGE	CROWN	LEGS	STAPLES / POST
WIRE STAPLES	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.
	GAUGE.	LENGTH	BUTTON HEADS	NAIL/ POST
NAILS	14 MIN.	1"	3/4"	4 MIN.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORDS, AND POCKETS.

TABLE 6-27.4

TYPE FENCE	C
TENSILE STRENGTH (LBS. MIN.) (ASTM D-4632)	WARP-250 FILL-180
ELONGATION (%MAX) ASTM D-4632)	40
AOS (APPARENT OPENING SIZE) (MAX SIEVE SIZE) (ASTM D 4751)	#30
FLOW RATE (GAL/MIN/SQFT.) (CDT-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 DIAPHRAM BURSTING STRENGTH TESTER)	175
MINIMUM FABRIC WIDTH (INCHES)	36

SPECIFICATIONS:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. THE SILT FENCE SHALL BE 36 INCHES WIDE WITH WIRE REINFORCEMENT.
3. TYPE C SILT FENCE SHALL BE USED WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH OR WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FEET.

NOTES:
1. SEDIMENT BARRIERS SHALL BE INSTALLED WHERE RUNOFF CAN BE STORED BEHIND THE BARRIER WITHOUT DAMAGING THE SUBMERGED AREA BEHIND THE BARRIER OF THE STRUCTURE ITSELF.
3. SEDIMENT BARRIERS SHALL NOT BE INSTALLED ACROSS STREAMS, DITCHES, WATERWAYS, OR OTHER CONCENTRATED FLOW AREAS.
4. WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SEDIMENT BARRIER (WHERE NO STORM WATER DISPOSAL SYSTEM IS PRESENT), MAXIMUM CONTINUOUS SLOPE LENGTH BEHIND A SEDIMENT BARRIER SHALL NOT EXCEED THOSE SHOWN IN TABLE 6-27.1 CRITERIA FOR SEDIMENT BARRIER. FOR LONGER SLOPE LENGTHS, SLOPE INTERRUPTERS MUST BE USED.
5. FOR EVERY 100 FEET OF SEDIMENT BARRIER, THE DRAINAGE AREA SHALL NOT EXCEED ½ ACRE.
6. WHEN USING MULTIPLE TYPES OF SEDIMENT BARRIERS ON A SITE IN A SINGLE RUN, THE BARRIERS MUST BE OVERLAPPED A MINIMUM OF 18 INCHES.
7. SILT FENCING MATERIAL TO BE USED MUST BE ON THE EXISTING GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST #36 (QPL-36), TYPE C SILT FENCING.
8. SENSITIVE AREAS ARE ANY AREAS THAT NEED ADDITIONAL PROTECTION. THESE AREAS INCLUDE, BUT ARE NOT LIMITED TO, STATE WATERS, WETLANDS, OR ANY AREA THE DESIGN PROFESSIONAL DESIGNATES AS SENSITIVE.
9. ALONG ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE USED. THE TWO ROWS OF TYPE S SHALL BE PLACED A MINIMUM OF 36 INCHES APART.
10. PLACE WOOD CHIP MULCH BEAMS A MAXIMUM OF 18" HIGH IN FRONT OF ALL SINGLE ROW SILT FENCES.
11. PLACE WOOD CHIP MULCH BERMS, HAYBALES, OR COMPOST FILTER SOCKS IN BETWEEN DOUBLE ROW SILT FENCES.

TABLE 6-27.1 CRITERIA FOR SEDIMENT BARRIER

LAND SLOPE	MAXIMUM SLOPE LENGTH ABOVE FENCE
PERCENT	FEET
< 2	100
2 TO 5	75
5 TO 10	50
10 TO 20	25
> 20	15

*IN AREAS WHERE THE SLOPE IS GREATER THAN 20% A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF SLOPE TO THE BARRIER SHOULD BE PROVIDED.

Sd1-S SILT FENCE TYPE SENSITIVE

N.T.S

GEORGIA UNIFORM CODING SYSTEM

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
Ch	CHANNEL STABILIZATION			IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.
Co	CONSTRUCTION EXIT		Co (LABEL)	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr (LABEL)	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			A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT 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 PERMANENT 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. THIS IS TEMPORARY AND INEXPENSIVE.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (LABEL)	A PAVED CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr	FILTER RING			A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ga	GABION			ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.
Gr	GRADE STABILIZATION STRUCTURE		Gr (LABEL)	PERMANENT STRUCTURES INSTALLED TO PROTECT 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 WATER INTO LESS EROSIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM			A PERMANENT 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	RETRO FITTING		Rt (LABEL)	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SILT FENCE.
Sd2	INLET SEDIMENT TRAP			AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 (LABEL)	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.
Sd4	TEMPORARY SEDIMENT TRAP			A SMALL TEMPORARY POND THAT DRAINS A DISTURBED AREA SO THAT SEDIMENT CAN SETTLE OUT. THE PRINCIPLE FEATURE DISTINGUISHING A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A PIPE OR RISER.
Sk	FLOATING SURFACE SKIMMER		Sk (LABEL)	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.
Spb	SEEP BERM		Spb (LABEL)	LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUNOFF TO ENHANCE DISSIPATION AND INFILTRATION, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE EMPLOYMENT OF INTERMEDIATE DIKES.
Sr	TEMPORARY STREAM CROSSING		Sr (LABEL)	A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATERCOURSE FROM DAMAGE BY CROSSING CONSTRUCTION EQUIPMENT.
St	STORMDRAIN OUTLET PROTECTION		St	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHENING			A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tc	TURBIDITY CURTAIN		Tc	A FLOATING OR STAKED BARRIER INSTALLED WITHIN THE WATER (IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN).
Tp	TOPSOILING			THE PRACTICE OF STRIPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
Tr	TREE PROTECTION			TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			PAVED OR VEGETATIVE WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES OR SIMILAR STRUCTURES.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABEL)	STRIP OF UNDISTURBED ORIGINAL VEGETATION. ENHANCED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RE-NOURISHED.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS		Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	SUBSTANCE FORMULATED TO ASSIST IN THE SOLIDS/LIQUID SEPARATION OF SUSPENDED PARTICLES IN SOLUTION.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIAL TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS.
Ss	SLOPE STABILIZATION		Ss	A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS.
Tac	TACKIFIERS AND BINDERS		Tac	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.

EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
2. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
3. CUT AND FILL SLOPES SHALL NOT EXCEED 2H:1V.
4. WITHIN THE CLEARING LIMITS, THE SITE IS TO BE TIMBERED.
5. ALL STUMPS, LIMBS, AND TOPS ARE TO BE DISPOSED OF OFF-SITE AND THE SOIL IS TO BE CLEANED BY USE OF A ROOT RAKE OR SIMILAR IMPLEMENT.
6. ALL TOPSOIL IS TO BE MOVED TO A STOCKPILE LOCATION.
7. AFTER ROUGH GRADING IS COMPLETE, THE TOPSOIL IS TO BE RE-SPREAD IN THE FRONT AND REAR YARDS, SLOPES, AND OTHER NON-LOAD BEARING LOCATIONS. CARE MUST BE TAKEN TO REMOVE THE TOPSOIL FROM AREAS WHERE DRIVEWAYS AND PATIOS OCCUR.

ITEM # 8. ALL TOPSOIL IS TO BE COMPACTED AND WALKED-IN PRIOR TO APPLICATION OF SEED OR SOD.

ITEM # 9. STATE WATERS WERE NOT LOCATED ON THE SITE.

10. THERE ARE NO WETLANDS LOCATED ON THE SITE PER INVESTIGATION CONDUCTED BY TECHNICAL SURVEY SERVICES DATED 04/03/2025.

ITEM # 11. SEE TREE PROTECTION AND REPLACEMENT PLAN FOR TREE REMOVAL WITHIN THE LIMITS OF DISTURBANCE.

12. 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 & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY

ITEM # 13. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

ITEM # 14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

ITEM # 15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

16. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.

ITEM # 17. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

18. RESTORE DETENTION PONDS TO ORIGINAL DESIGN CONDITIONS ONCE SITE HAS BEEN STABILIZED AND THE TEMPORARY SEDIMENT PONDS AND RETROFITS HAVE BEEN REMOVED. THIS INCLUDES REMOVING SILT AND MUCK FROM THE BOTTOM OF THE PONDS AND INSTALLING PERMANENT GRASS.

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GEORGIA ENGINEERING FIRM #PEF009029 | GEORGIA SURVEYING FIRM #LSF001506

GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 25-341 - 000

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEREMIAH CASON PHILLIPS

1	DOWNSPOUT CONNECTION UPDATE	7/1/26

SHEET TITLE
ES&PC NOTES

SHEET NUMBER
EC1.1

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SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE	BROADCAST RATES 2/ - PLS 3/ 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. 0.9 C.F. OR SOD PLUGS 3' x 3'		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 (Eremochloa ophiuroides)	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

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE	BROADCAST RATES 2/ - PLS 3/ PER 1000 S.F.	RESOURCE AREA 4/	PLANTING DATES J F M A M J J A S O N D	REMARKS
LESPEDEZA, SERICEA (Lespedeza cuneata) SCARIFIED	60 LBS.	1.4 LBS.	M-L P C		350,000 SEEDS PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS. INOCULATE SEED W/ EL INOCULANT.
UNSCARIFIED	75 LBS.	1.7 LBS.	M-L P C		MIX WITH TALL FESCUE OR WINTER ANNUALS
SEED-BEARING HAY	3 TONS	1338 LBS.	M-L P C		CUT WHEN SEED MIXTURE IS MATURE, BUT BEFORE, IT SCATTERS. ADD TALL FESCUE OR WINTER ANNUALS.
LESPEDEZA, SHRUB (Lespedeza bicolor) (Lespedeza thumbergii) PLANTS	3' x 3'		M-L P C		PROVIDES WILDLIFE FOOD AND COVER.
LOVEGRASS, WEEPING (Eragrostis curvula) ALONE W/ OTHER PERENNIALS	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.	M-L P C		1,500,000 SEEDS PER POUND. QUICK COVER, DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS
MAIDEN CARE (Panicum hemitornon) SPRIGS	2' x 3' SPACING		ALL		FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER BANKS AND SHORELINES
PANICGRASS, ATLANTIC COASTAL (Panicum amorum var. amarulum)	20 LBS.	0.5 LBS.	P C		GROWS WELL ON COASTAL SAND DUNES, BORROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT ON SAND DUNES.
RED CANARY GRASS (Phalaris arundinances) ALONE WITH OTHER PERENNIALS	50 LBS. 30 LBS.	1.1 LBS. 0.7 LBS.	M-L P		GROWS SIMILAR TO TALL FESCUE.
SUNFLOWER "AZTEC" MAXIMILLIAN (Helianthis maximillioni)	10 LBS.	0.2 LBS.	M-L P C		227,000 SEEDS PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.

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 IT'S 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.

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

N.T.S

FILE: DS1.DWG | DWN: TR | CHK: BB | DATE: 02/25/19

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 CULITPACER-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.

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

SPECIES	BROADCAST RATES 2/ - PLS 3/ PER ACRE	BROADCAST RATES 2/ - PLS 3/ 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. ONLY WINTERHARDY 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. MAY RESEED. TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
MILLET, PEARL (Pennisetum 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 (Avena 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 sudroese) 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.

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

Ds2 TEMPORARY GRASSING

N.T.S

FILE: DS1.DWG | DWN: TR | CHK: BB | DATE: 02/25/19

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

MATERIALS	RATE	APPLICATION
DRY STRAW OR HAY	2½ TONS PER ACRE	APPLY UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. ANCHOR HAY DISK HARROW OR PACKER DISK OR WITH EMULSIFIED ASPHALT (GRADE AE-S 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

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 STABILIZED WITH A MULCH COVER.

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

N.T.S

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GEORGIA ENGINEERING FIRM #PEF009029 | GEORGIA SURVEYING FIRM #LSF001506

GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 25-341 - 000

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED NO. PE009029 PROFESSIONAL ENGINEER JEREMIAH CASON PHILLIPS 7/1/26

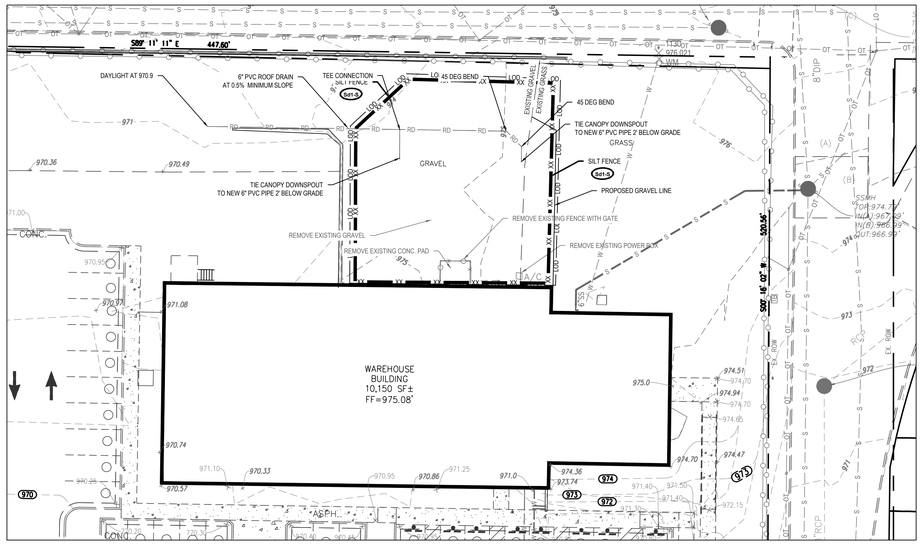
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ES&PC NOTES

SHEET TITLE

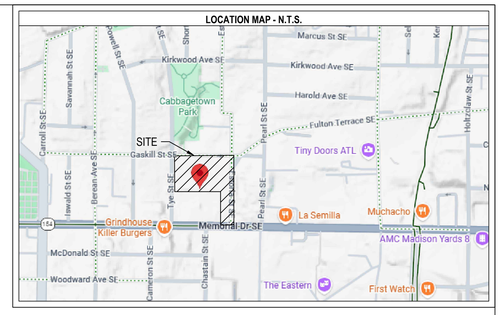
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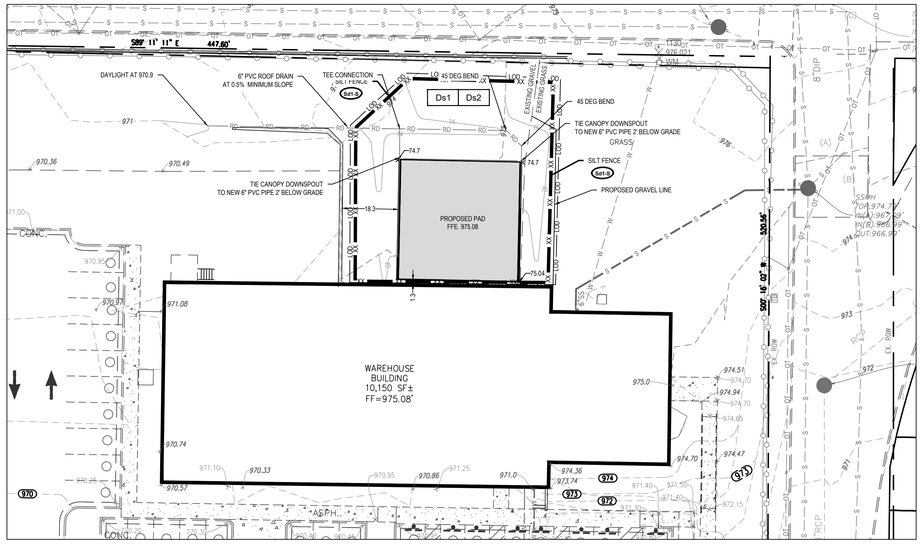
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PHASE I- EROSION CONTROL PLANS

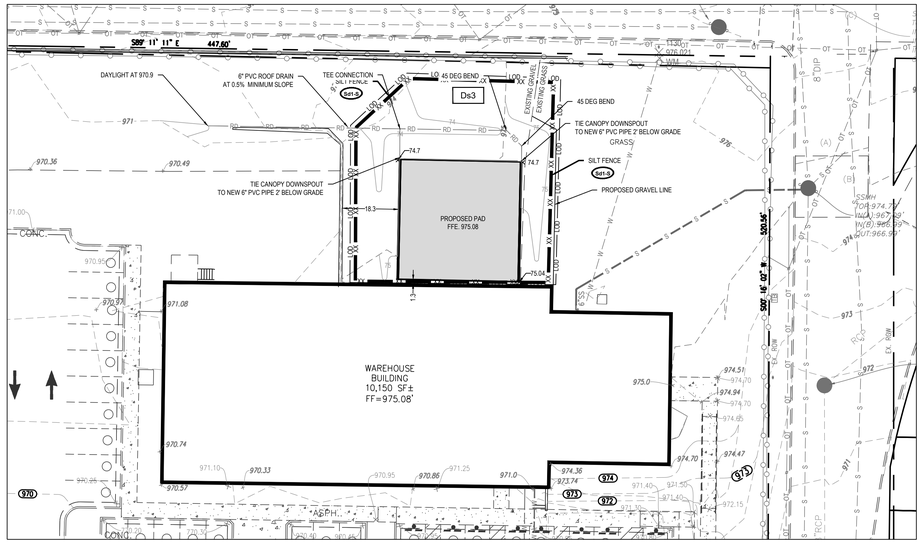
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PHASE II- EROSION CONTROL PLANS

SCALE:1"=20'



FINAL- EROSION CONTROL PLANS

SCALE:1"=20'

OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTE
80 JESSE HILL JR., DRIVE SE
ATLANTA, GA 30303
(404) 616-3228
GCSMITH@GMH.EDU

PROJECT ENGINEER
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GRAPHIC SCALE
-20 0 10 20 40 80
(IN FEET)
1 INCH = 20 FT.

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GRADY HEALTH SYSTEM

GRADY EMS
TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 25-341 - 000

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEREMIAH CASON PHILLIPS

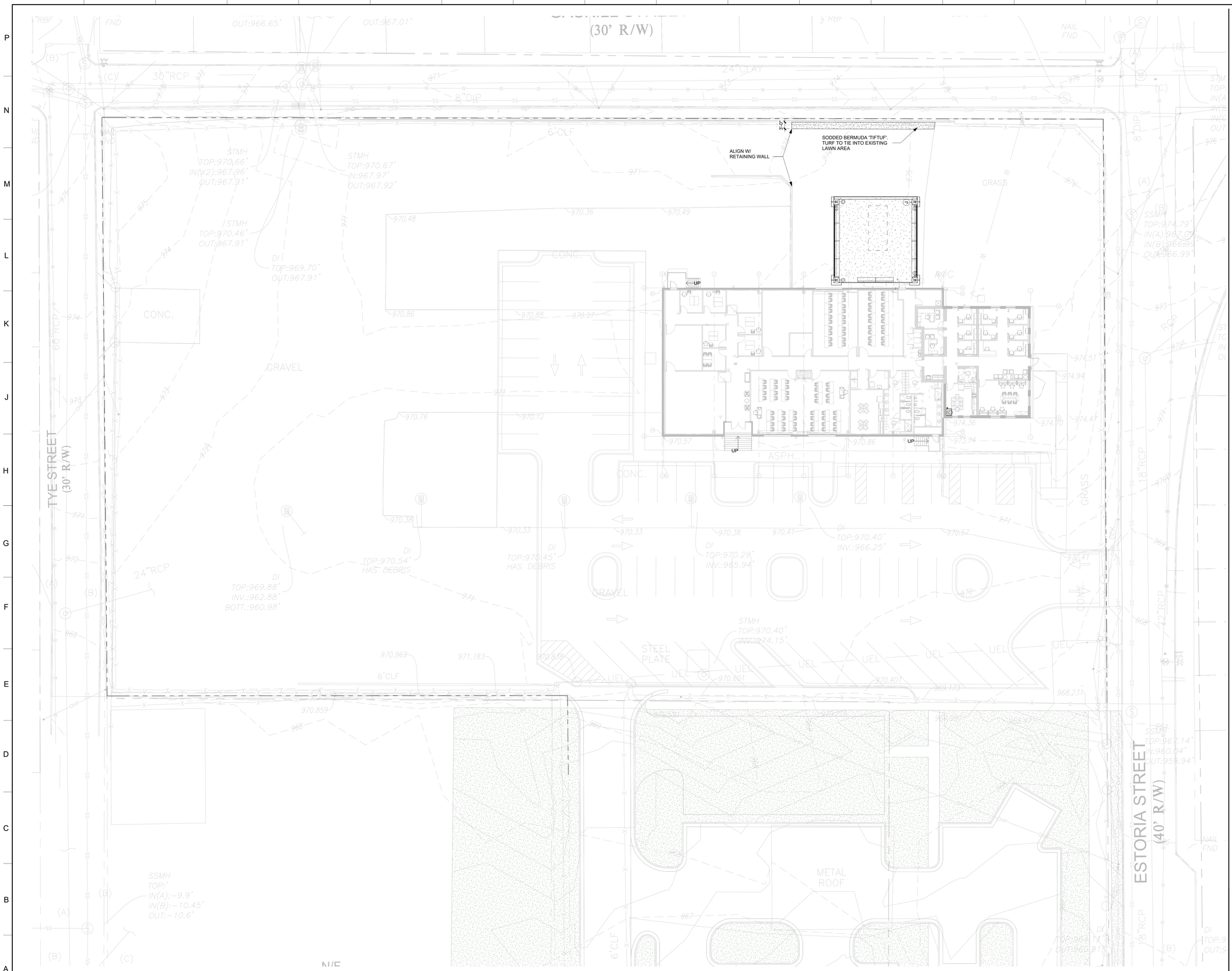
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1	DOWNSPOUT CONNECTION UPDATE	

INITIAL, INTERMEDIATE, & FINAL ES&PC PLAN

SHEET TITLE

SHEET NUMBER

EC2.0



A1	ARCHITECTURAL SITE PLAN
AS01	1/16" = 1'-0" | A1/ A100

7/27/2026 9:22:19 AM

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. LEGGETT, Jr.
REGISTRATION #
9176
REGISTERED ARCHITECT

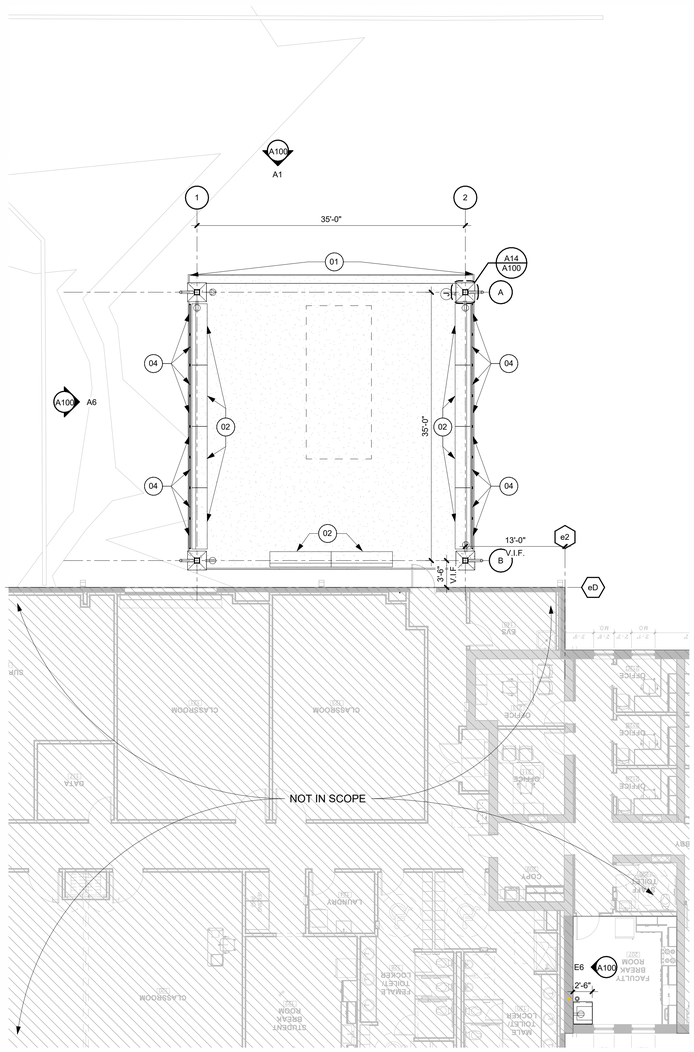
CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

KEY PLAN

N

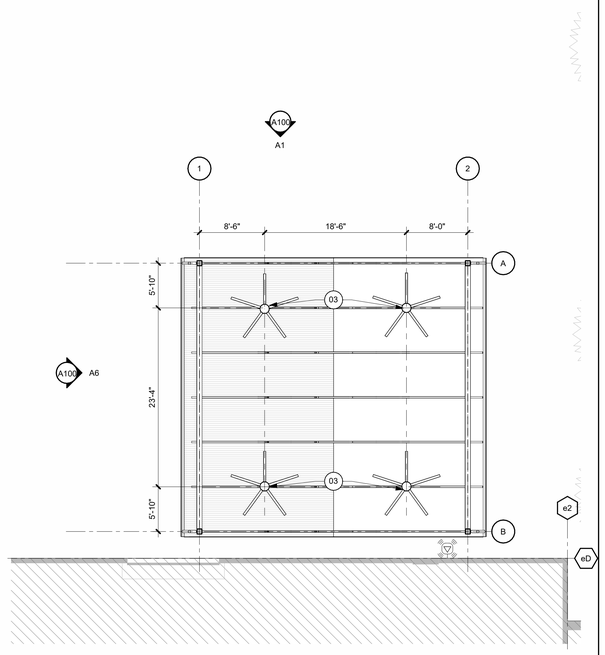
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ARCHITECTURAL SITE PLAN

SHEET NUMBER
AS01



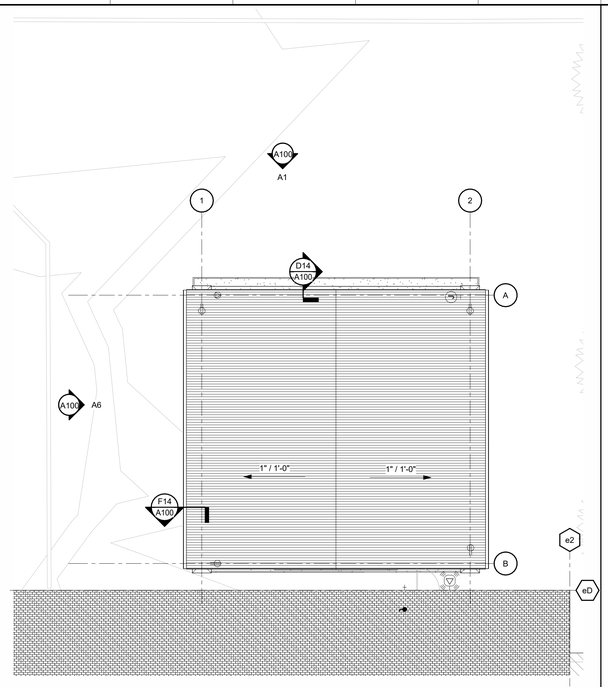
E1 LEVEL 100 FLOOR PLAN

A100 | 1/8" = 1'-0" | A1/ A100



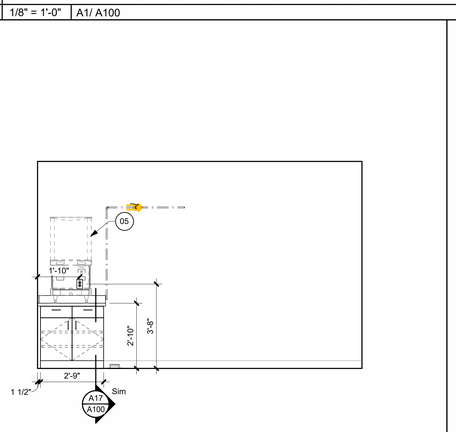
J6 LEVEL 100 REFLECTED CEILING PLAN

A100 | 1/8" = 1'-0" | A1/ A100



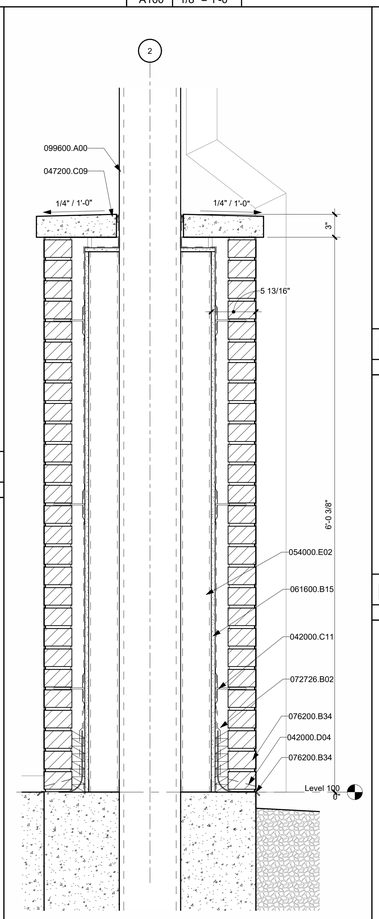
J11 ROOF PLAN

A100 | 1/8" = 1'-0"



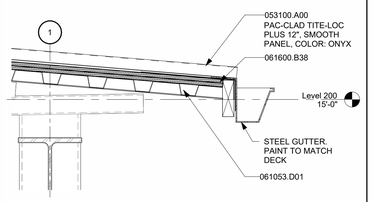
E6 BREAK ROOM ELEVATION

A100 | 3/8" = 1'-0" | E1/ A100



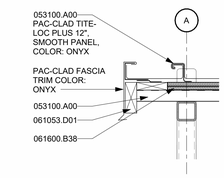
A11 TYP. BRICK COLUMN SECTION

A100 | 1 1/2" = 1'-0" | A14/ A100



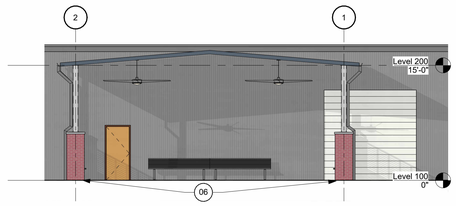
F14 GUTTER SECTION

A100 | 1 1/2" = 1'-0" | J11/ A100



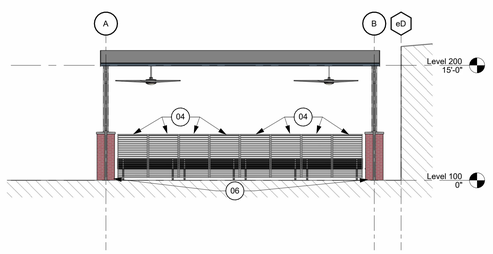
D14 ROOF SECTION

A100 | 1 1/2" = 1'-0" | J11/ A100



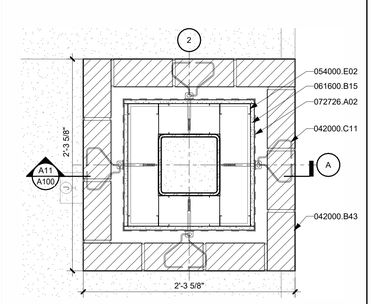
A1 WEST ELEVATION

A100 | 1/8" = 1'-0" | E1/ A100



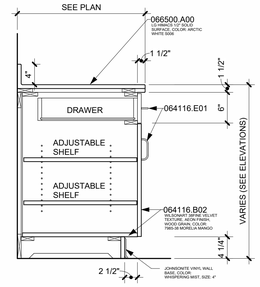
A6 SOUTH ELEVATION

A100 | 1/8" = 1'-0" | E1/ A100



A14 TYP. BRICK COLUMN

A100 | 1 1/2" = 1'-0" | E1/ A100



A17 BASE CABINET

A100 | 1" = 1'-0" | E6/ A100

SAMPLE SHEET NOTE SCHEDULE	
NO.	COMMENTS
01	SLOPE TO GRAVEL
02	ZEUS & RUTA 96" BENCH, BLACK FINISH.
03	"BIGASSFANS" MAMMOTH 72" FAN, BLACK FINISH, FIXED WALL MOUNTED REMOTE, NO LED
04	DOVELINA 72" GALVANIZED METAL OUTDOOR PRIVACY SCREEN, LOUVERED, COLOR: BLACK
05	MERIDIAN HIDS25W-1 ICE MACHINE / DISPENSER
06	B.O.D. CHEROKEE BRICK: VELOUOR RED, MODULAR. GROUT: COOSA GLACIER WHITE

KEYNOTE LEGEND

042000.B43	BRICK
042000.C11	ADJUSTABLE MASONRY-VENEER ANCHOR
042000.D04	BRICK WEEP WICK
047200.C09	WALL CAP
053100.A00	STEEL DECKING
054000.E02	4" EXT NON-LOAD-BEARING WALL FRAMING
061053.D01	BLOCKING
061600.B15	1/2" GLASS-MAT GYPSUM WALL SHEATHING
061600.B38	1/2" PLYWOOD ROOF SHEATHING
064116.B02	PARTICLEBOARD CORE
064116.E01	CABINET HARDWARE AND ACCESSORIES
066500.A00	SOLID POLYMER FABRICATIONS
072726.A02	HI-BUILD AIR BARRIER, VAPOR PERMEABLE
072726.B02	ADHESIVE-COATED TRANSITION STRIP
076200.B34	
099600.A00	HIGH-PERFORMANCE COATINGS

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GRADY EMS TRAINING PAVILION

GRADY HEALTH SYSTEM

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA
WILLIAM J. FEGGETT, Jr.
REGISTRATION
9176
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

FLOOR PLANS

SHEET NUMBER

A100

7/27/2026 9:25:30 AM

GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.

2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.

8. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

9. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

10. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

11. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

12. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

13. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.

14. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

15. SUBMITTALS

17.1 SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. PRIOR TO THE INITIAL SUBMITTAL, CONTRACTOR SHALL SUBMIT TO THE DESIGN PROFESSIONAL A SCHEDULE OF SUBMITTED INFORMATION.

17.2 SUBMITTALS SHALL BE ACCOMPANIED BY A TRANSMITTAL LETTER WITH THE FOLLOWING INFORMATION:

- PROJECT NAME
- CONTRACTOR'S NAME
- DATE SUBMITTED
- DESCRIPTION OF ITEMS SUBMITTED. IDENTIFY WORK AND PRODUCT BY SPECIFICATION SECTION
- NUMBER OF DRAWINGS AND OTHER PERTINENT DATA.

17.3 CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.

17.4 WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR CONTRACT TIME AT COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS WITH THE DESIGN PROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE.

17.5 ADJUSTMENTS MADE ON SHOP DRAWINGS BY ENGINEERS ARE NOT INTENDED TO CHANGE CONTRACT PRICE. IF ADJUSTMENTS AFFECT THE VALUE OF THE WORK, STATE SUCH IN WRITING TO ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - INTERNATIONAL BUILDING CODE, 2024 EDITION WITH 2026 GEORGIA AMENDMENTS.
2. GRAVITY LOADS

   2.1 UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

   - ROOF, L_r — 20 PSF
   - GROUND SNOW LOAD, p_g — 19 PSF
   - ASD GROUND SNOW LOAD, $p_{g(asd)}$ — 13.3 PSF
     - SNOW EXPOSURE FACTOR, C_e — 1.0
     - WINTER WIND FACTOR, W_2 — 0.35
     - THERMAL FACTOR, C_t — 1.2
     - SLOPE FACTOR, C_s — 1.0
   - 15-MIN RAINFALL INTENSITY — 6.94 IN/HR

   ROOF:
   - ROOFING — 2 PSF
   - MISCELLANEOUS — 5 PSF

3. WIND LOADS:
   - BASIC DESIGN WIND SPEED, V — 105 MPH
   - ALLOWABLE DESIGN WIND SPEED, V_{ASD} — 81 MPH
   - RISK CATEGORY — II
   - EXPOSURE — C
   - DESIGN BASE SHEAR: V_x = 2.2 KIPS, V_y = 2.2 KIPS

   SEE COMPONENT AND CLADDING DESIGN WIND PRESSURE DIAGRAM ON SHEET S-002

4. EARTHQUAKE LOADS:
   - RISK CATEGORY: II
   - SEISMIC IMPORTANCE FACTOR: I = 1.0
   - SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S_S = 0.24
   - 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S_1 = 0.093
   - SITE CLASS D
   - SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{DS} = 0.2
   - 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{D1} = 0.13
   - SEISMIC DESIGN CATEGORY: B
   - BASIC SEISMIC-FORCE RESISTING SYSTEM: G.2 STEEL ORDINARY CANTILEVER COLUMN SYSTEM
   - DESIGN BASE SHEAR: 1.4 KIPS
   - SEISMIC RESPONSE COEFFICIENT, C_S = 0.16
   - RESPONSE MODIFICATION FACTOR, R = 1.25
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER VERTICAL DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:

	DEAD LOAD	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/360	L/360	L/240

   - WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
6. SPECIAL INSPECTIONS:

   6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE SOIL, CONCRETE AND STRUCTURAL STEEL CONSTRUCTION. SEE SPECIFICATION SECTIONS 014525 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL INSPECTIONS.

   6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO ROOF JOISTS OF STEEL MATERIALS AND STRUCTURAL STEEL FRAMING.

   6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

   6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

   6.5 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.

   6.6 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

FOUNDATION

1. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL GIVE CONSIDERATION TO THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 1500 PSF (ASSUMED).

   3.1 NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.
4. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 95% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTION AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY. STRUCTURAL FILL SOIL DENSITY SHALL BE 120 PCF.
5. SLABS-ON-GRADE SHALL BE PLACED ON A 4" GRANULAR BASE, COMPACTED TO 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698, THE BASE FOR SLABS-ON-GRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO EACH PLACEMENT OF CONCRETE.
6. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED. PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL).
7. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
8. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF 8".
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
6. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

   6.1 CONCRETE REINFORCEMENT COVER

   EXPOSED TO EARTH OR WEATHER:
   - UNFORMED CAST AGAINST EARTH — 3" CLEAR
   - FORMED #6 AND LARGER — 2" CLEAR
   - FORMED #5 AND SMALLER — 1-1/2" CLEAR
7. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
   - CONCRETE REINFORCEMENT: CLASS B TENSION LAP
8. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM TO ASTM C881, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. REINFORCING INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
9. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
10. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS SHOWN OTHERWISE IN DETAILS.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:

   2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:

   - FOOTINGS — 3000 PSI — F0
   - SLABS-ON-GRADE (EXTERIOR) — 4500 PSI — F2
3. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS INCLUDING CROSSING UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS. ALL PIPES AND DUCTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
6. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE DESIGN PROFESSIONAL.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
   - STRUCTURAL STEEL HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE C.
   - MISCELLANEOUS PLATES AND CONNECTION MATERIAL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
2. BOLTS AND ANCHORS:

   2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER F3125 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2014 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS).

   2.2 ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 36 AND SHALL BE HEADED RODS OR THREADED RODS WITH HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, GRADE A563A, UNLESS NOTED OTHERWISE.

   2.3 EXPANSION ANCHORS SHALL HAVE BEEN EVALUATED BY THE ICC EVALUATION SERVICES, INC (ICC-ES) WITH A PUBLISHED EVALUATION REPORT. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 193 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. ALL ANCHORS SHALL BE APPROVED FOR RESISTING WIND AND SEISMIC LOADS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHALL BE OBTAINED FROM THE TABLES ENTITLED "MAXIMUM TOTAL UNIFORM LOAD" IN PART 3 OF THE AISC "MANUAL OF STEEL CONSTRUCTION", FIFTEENTH (15TH) EDITION. THE DESIGN REACTION IS EQUAL TO HALF THE TABULATED VALUE FOR NONCOMPOSITE BEAMS DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL. DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN. SINGLE ANGLE CONNECTIONS ARE NOT ACCEPTABLE.
5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY D1.1/D1.1M-2015. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
6. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE PAINTED. SEE ARCHITECTURE FOR PAINT REQUIREMENTS.

METAL DECK

1. DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
2. PROVIDE GALVANIZED ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
   - 1 1/2 INCH — DEPTH
   - 20 GAGE — THICKNESS
   - 0.224 IN^4/FT — EFFECTIVE POSITIVE SECTION MODULUS, S_{ep}
   - 0.229 IN^3/FT — EFFECTIVE NEGATIVE SECTION MODULUS, S_{en}
   - 0.197 IN^4/FT — EFFECTIVE POSITIVE MOMENT OF INERTIA, I_{ep}
   - 0.217 IN^4/FT — EFFECTIVE NEGATIVE MOMENT OF INERTIA, I_{en}
   - 50,000 PSI — YIELD STRESS
3. DECK IS SPECIFIED BASED ON A THREE SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITIONS.
4. PROVIDE AND FASTEN METAL DECK TO CONFORM TO THE REQUIREMENTS OF FACTORY MUTUAL FOR CLASS 1 ROOF INSTALLATION.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE BUILDING INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. DEFERRED SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, CALCULATIONS, DESIGN LOAD DATA AND SUPPORT REACTIONS OF THE COMPONENTS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
4. ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS:

   a. STEEL JOISTS
   b. STEEL CONNECTION DESIGN

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
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PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

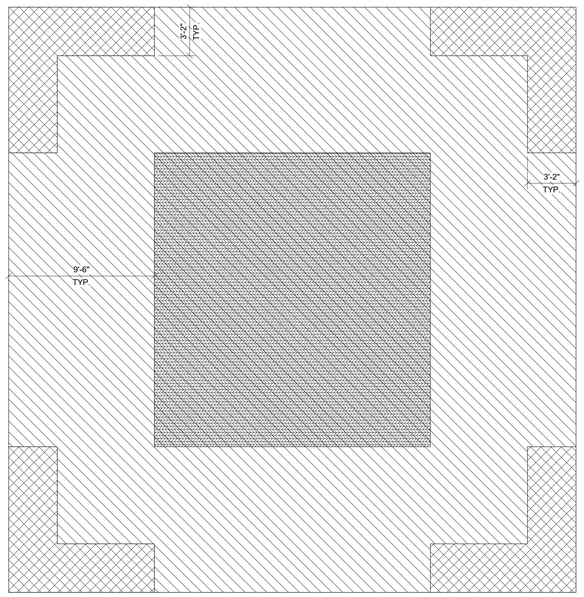
GEORGIA REGISTERED No. 56000134 PROFESSIONAL ENGINEER HOLLY C JESTICE

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S-001

6/25/2026 11:00:44 AM



3 S-002 COMPONENTS AND CLADDING DIAGRAM
1/4" = 1'-0"

FM GLOBAL COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE SCHEDULE (PSF)

EFFECTIVE WIND AREA	ROOF		
	ZONE 1	ZONE 2	ZONE 3
<10 SF	-52.5/+16	-78.75/+16	-105/+16
>12.3≤ 49SF	-41.76/+16	-60.36/+16	-80.48/+16
>49 SF	-26.36/+16	-39.5/+16	-52.73/+16

SCHEDULE NOTES:
1. (+) AND (-) SIGNS INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACE, RESPECTIVELY.

ABBREVIATIONS

ABT	ABOUT	(E)	EXISTING	IF	INSIDE FACE	OC	ON CENTER	T&B	TOP AND BOTTOM
ACI	AMERICAN CONCRETE INSTITUTE	EA	EACH	IBC	INTERNATIONAL BUILDING CODE	OD	OUTSIDE DIAMETER	T/	TOP OF
ADDL	ADDITIONAL	EF	EACH FACE	ICC	INTERNATIONAL CODE COUNCIL	OF	OUTSIDE FACE	THK	THINK
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EJ	EXPANSION JOINT	ID	INSIDE DIAMETER	OPNG	OPENING	THRU	THROUGH
ALT	ALTERNATE	EL	ELEVATION	IE	INVERT ELEVATION	OPP	OPPOSITE	TYP	TYPICAL
APPROX	APPROXIMATE	ELEC	ELECTRICAL	IN	INCH	OSH	OVERSIZED HOLE		
ARCH	ARCHITECTURAL/ARCHITECT	ENGR	ENGINEER	INT	INTERIOR			UL	UNDERWRITER'S LABORATORIES
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	EOD	EDGE OF DECK			PCF	POUNDS PER CUBIC FOOT	UNO	UNLESS NOTED OTHERWISE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	EOR	ENGINEER OF RECORD	JT	JOINT	PE	PROFESSIONAL ENGINEER		
AWS	AMERICAN WELDING SOCIETY	EOS	EDGE OF SLAB			PERIM	PERIMETER	VERT	VERTICAL
		EQ	EQUAL	K	KIP(S)	PJF	PREMOLDED JOINT FILLER		
B	BOTTOM OF	EQUIP	EQUIPMENT	KSF	KIPS PER SQUARE FOOT	PL	PLATE	W	WITH
BLDG	BUILDING	EW	EACH WAY	KSI	KIPS PER SQUARE INCH	PLCS	PLACES	W/O	WITHOUT
BM	BEAM	EXP	EXPANSION			PLF	POUNDS PER LINEAR FOOT	WP	WORKING POINT
BOTT	BOTTOM	EXT	EXTERIOR	(LLH)	LONG LEG HORIZONTAL (ANGLE)	PREFAB	PREFABRICATED	WS	WATERSTOP
BP	BASE PLATE			(LLV)	LONG LEG VERTICAL (ANGLE)	PSF	POUNDS PER SQUARE FOOT	WT	WEIGHT
BRG	BEARING	FD	FLOOR DRAIN	(LSH)	LONG SIDE HORIZONTAL (HSS)	PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC
BTWN	BETWEEN	FDN	FOUNDATION	(LSV)	LONG SIDE VERTICAL (HSS)	PT	POINT		
		FF	FINISHED FLOOR	LB	POUND				
C/C	CENTER TO CENTER	FFE	FINISHED FLOOR ELEVATION	LF	LINEAR FEET	R	RADIUS		
CALC	CALCULATION(S)	FG	FINISHED GRADE	LL	LIVE LOAD	RD	ROOF DRAIN		
CANT	CANTILEVER	FIN	FINISH	LOC	LOCATION	REF	REFERENCE		
CFMF	COLD-FORMED METAL FRAMING	FLG	FLANGE	LONG	LONGITUDINAL	REINF	REINFORCING		
CHKD	CHECKED	FLR	FLOOR	LP	LOW POINT	REQD	REQUIRED		
CIP	CAST-IN-PLACE CONCRETE	FRMG	FRAMING	LSH	LONG SLOTTED HOLE	RET	RETURN		
CJ	CONSTRUCTION CONTROL JOINT	FRP	FIBER REINFORCED PLASTIC	LWC	LIGHT WEIGHT CONCRETE	REV	REVISION		
CJP	COMPLETE JOINT PENETRATION	FS	FAR SIDE			RO	ROUGH OPENING		
CL	CENTERLINE	FT	FOOT	M	MOMENT	RTU	ROOFTOP UNIT		
CLR	CLEAR, CLEARANCE	FTG	FOOTING	MAX	MAXIMUM				
COL	COLUMN	FV	FIELD VERIFY	MC	MOMENT CONNECTION	(SLV)	SHORT LEG VERTICAL		
CONC	CONCRETE			MECH	MECHANICAL	SC	SLIP CRITICAL		
CONN	CONNECTION	GA	GAGE, GAUGE	MEP	MECHANICAL, ELECTRICAL, AND PLUMBING	SCHED	SCHEDULE		
CONT	CONTINUOUS	GALV	GALVANIZED (HOT DIP)	MFC	MANUFACTURED	SECT	SECTION		
COORD	COORDINATE	GC	GENERAL CONTRACTOR	MFR	MANUFACTURER	SHT	SHEET		
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	GRTG	GRATING	MIN	MINIMUM	SIM	SIMILAR		
CTR	CENTER			MISC	MISCELLANEOUS	SL	SLOPE		
CTRD	CENTERED	(H)	HORIZONTAL BEAM ORIENTATION	MTD	MOUNTED	SPCS	SPACES		
CW	CURTAINWALL	HCA	HEADED CONCRETE ANCHOR	MTL	METAL	SPEC(S)	SPECIFICATION(S)		
		HDR	HEADER			SQ	SQUARE		
DBA	DEFORMED BAR ANCHOR	HGR	HANGER	N&F	NEAR AND FAR	SS	STAINLESS STEEL		
DBE	DECK BEARING ELEVATION	HK	HOOK	N/A	NOT APPLICABLE	SSH	SHORT SLOTTED HOLE		
DBL	DOUBLE	HORIZ	HORIZONTAL	NIC	NOT IN CONTRACT	STD	STANDARD		
DEG	DEGREES	HP	HIGH POINT	NO/NO.	NUMBER	STIF	STIFFENER		
DET	DETAIL	HR	HANDRAIL	NOM	NOMINAL	STL	STEEL		
DIA	DIAMETER	HSB	HIGH STRENGTH BOLT	NS	NEAR SIDE	STRUCT	STRUCTURAL		
DIAG	DIAGONAL			NTS	NOT TO SCALE	SYM	SYMMETRICAL		
DIR	DIRECTION			NWC	NORMAL WEIGHT CONCRETE				
DL	DEAD LOAD								
DWG	DRAWING								

2 S-002 ABBREVIATIONS
3/4" = 1'-0"

STEEL COLUMN/FOOTING TYPE INDICATOR

COL SIZE STEEL COLUMN SIZE
BP-X BASE PLATE MARK
FX.X (-0'-0") FOOTING MARK (T/FTG ELEVATION)
P-X (-0'-0") PEDESTAL MARK (T/PEDESTAL ELEVATION)

FOUNDATION STEP INDICATOR

(-x'-x") T/FOOTING ELEVATION
(-x'-x") T/FOOTING ELEVATION

OPENING IN FLOOR OR ROOF

RECESS/DEPRESSION INDICATOR

STRUCTURAL STEEL CONNECTION AXIAL FORCE

(xxk)

SLOPE INDICATOR

Y
X

CONCRETE SLAB/METAL DECK SPAN INDICATOR

STRUCTURAL STEEL MOMENT CONNECTION

STRUCTURAL STEEL BEAM DESIGNATION

W8x10 (XX) c=x"
(XXk) (XXk)

BEAM SIZE
NUMBER OF STUDS UNIFORMLY SPACED ALONG BEAM
BEAM CAMBER
BEAM SERVICE REACTION

STRUCTURAL STEEL BEAM SPLICE DESIGNATION

CL SPLICE

STRUCTURAL CONCRETE BEAM DESIGNATION

CB XXX PB XXX

CBX INDICATES CONVENTIONALLY REINFORCED CONCRETE BEAM MARK BEAM WIDTH MAY VARY BASED UPON EDGE OF SLAB DIMENSION

PBX INDICATES POST-TENSIONED CONCRETE BEAM MARK, BEAM WIDTH MAY VERY BASED UPON EDGE OF SLAB DIMENSION

1 S-002 STRUCTURAL LEGEND
NOT TO SCALE

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED STRUCTURAL ENGINEER No. 029013 HOLLY C. JEFFREY

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

WIND LOAD DIAGRAM, ABBREVIATIONS, & LEGEND

SHEET NUMBER

S-002

6/25/2026 11:55:44 AM

SECTION 013330
STRUCTURAL SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Structural submittals include shop drawings, design calculations, diagrams, illustrations, schedules, performance charts, nomenclature charts, samples, brochures and other data prepared by the Contractor or any subcontractor, manufacturer, supplier, fabricator, or distributor and which illustrate some portion of the Project.

B. Submittals by the Contractor are not a part of the Contract Documents.

1.02 RELATED SECTIONS

A. Section 01 33 00 - Submittals

1.03 SUBMITTAL PROCEDURES

A. Prior to the initial submittal, Contractor shall submit to the Design Professional a completed Submittal Information and Schedules form given in Appendix I.

B. Submittals shall be accompanied by a transmittal letter with the following information:
1. Project name.
2. Contractor's name.
3. Date submitted.
4. Description of items submitted; identify work and product by Specification Section.
5. Number of drawings and other pertinent data.

C. Provide blank space on each submittal for the Design Professional's review stamp.

D. The type and number of submittals for each item shall be in accordance with Section 013000.

E. Contractor shall direct specific attention on the submittal to any deviation from the Contract Documents.

1.04 CONTRACTOR RESPONSIBILITY

A. Contractor shall make all submittals in advance of installation or construction to allow the Design Professional sufficient time for review.

B. Contractor shall stamp and sign each sheet of shop drawings and product data, and sign or initial each sample to certify compliance with requirements of Contract Documents. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.

C. Contractor shall understand that the submittal of the required documents does not constitute compliance with the requirements of the Contract Documents; only submittals reviewed by the Design Professional constitute compliance.

D. It is the Contractor's responsibility to furnish equipment, materials, and labor for the Project which meets the requirements of the codes and authorities quoted as well as the Contract Documents. Proprietary items specified herein only establish a minimum functional and aesthetic standard and it is incumbent upon the Contractor to ascertain conformance of these proprietary items or any proposed substitution with the codes and authorities.

E. By reviewing, approving and submitting shop drawings, product data, or samples, Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, member sizes catalog numbers, and similar data and that he has checked and coordinated shop drawings with the requirements of the Project and of the Contract Documents.

F. Work requiring shop drawings, whether called for by the Contract Documents or requested by the Contractor, shall not commence until the submission has been reviewed by the Design Professional. Work may commence if the Contractor verifies the accuracy of the Design Professional's corrections and notations and complies with them without exception and without requesting change in Contract Sum or Contract Time.

1.05 DESIGN PROFESSIONAL REVIEW

A. Design Professional will review submittals with reasonable promptness.

B. Design Professional's review or corrections refer only to the general arrangement and conformance of the subject of the submittals with the design concept of the project and with the information given in the Contract Documents. Under no conditions should the Contractor consider the review to include the dimensions, quantities, and details of the items nor the approval of an assembly in which the item functions.

C. Design Professional's review shall not relieve the Contractor from responsibility for errors or omissions in the submittals.

D. Design Professional's review of submittals shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents unless the Contractor has directed specific attention to the deviation at the time of submission and the Design Professional has given written approval to the specific deviation.

E. Design Professional's review of submittals shall not be construed as authorizing any change in the Contract Sum or Contract Time.

1.06 SHOP DRAWINGS

A. Present in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail of Contract Documents.

B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.

C. Identify field dimensions; show relationship to adjacent or critical features of Work or products.

D. A copy of the marked structural shop drawings with the Design Professional's review stamp is to be maintained at the job site.

1.07 PRODUCT DATA

A. Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Specification Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.

B. Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information which is not applicable.

C. Provide manufacturer's preparation, assembly, and installation instructions.

1.08 SAMPLES

A. Submit full range of manufacturer's standard finishes except where more restrictive requirements are specified, indicating colors, textures, and patterns.

B. Submit samples to illustrate functional characteristics of products, including parts and attachments as required by Design Professional.

C. Approved samples which are of proper size may be incorporated in Work.

D. Label each sample with identification.

E. Field Finishes: Provide full samples at Project, at location acceptable to Design Professional, as required by individual Specification Section. Install each sample complete and finished. Acceptable finishes in place may be retained in completed work.

1.09 RESUBMITTALS

A. When submittals are returned to the Contractor with the Design Professional's corrections the Contractor shall make the required corrections. Upon request, resubmit one corrected set.

B. Contractor shall direct specific attention on the resubmittal to all revisions including those requested by the Design Professional on previous submission.

1.010 DISTRIBUTION

A. Distribute reproductions of shop drawings, copies of product data, and samples which bear the Design Professional's review stamp to job site file, Record Documents file, subcontractors, suppliers, other affected contractors, and other entities requiring information.

B. Work shall be in accordance with and performed from the reviewed drawings.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTIONAPPENDIX I
SUBMITTAL INFORMATION AND SCHEDULES

PROJECT _____
CONTRACTOR _____
CONTRACTOR'S ADDRESS _____
PROJ. MANAGER _____
PHONE _____
FAX _____
SUPERINTENDENT _____
PHONE _____
FAX _____
MOBILIZATION DATE _____

PROJECTED SUBMITTAL DATES

FOUNDATION, CONCRETE & REINFORCING		STRUCTURAL STEEL		MASONRY	
SUBMITTAL	DATE	SUBMITTAL	DATE	SUBMITTAL	DATE
Site Preparation & Equipment Information		Fabricator / Erector Qualifications			
Concrete Mix Design		Anchor Bolt & Embedded Items			
Foundation Reinforcing		Erection & Detail Drawings			
		Joists			
		Deck		WOOD	DATE

REMARKS: _____

COMPLETED BY _____ DATE _____

END OF APPENDIX I

SECTION 014525
STRUCTURAL TESTING/INSPECTION AGENCY SERVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section summarizes the responsibility of the Contractor and the Structural Testing/Inspection Agency in the performance of the testing/inspection specified in the Contract Documents.

B. Neither the observation of the Design Professional in the administration of the contract, nor tests/inspections by the Testing/Inspection Agency, nor approvals by persons other than the Design Professional shall relieve the Contractor from his obligation to perform the work in accordance with the Contract Documents.

1.02 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014000 - Quality Control Services.

1.03 REFERENCES

A. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.

B. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.

C. American Council of Independent Laboratories - Recommended Requirements for Independent Laboratories Qualifications.

1.04 SELECTION AND PAYMENT

A. Owner will employ and pay for the structural testing/inspection services that are required by the Contract Documents.

B. Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with Contract Documents due to negligence or nonconformance.

C. Contractor shall pay for any additional structural testing/inspection required for his convenience.

D. Qualifications: Minimum Special Inspector qualifications shall be per Table 1704.2 of 2022 Georgia State Amendments to the International Building Code (2018 Edition).

1.05 STRUCTURAL TESTING/INSPECTION REQUIREMENT SUMMARY

A. Specific structural testing/inspection requirements are given in the following specification sections:

Specification 03 1000	-	Concrete Formwork Inspection
Specification 03 2000	-	Concrete Reinforcement Inspection
Specification 03 3000	-	Concrete Testing/Inspection
Specification 03 6200	-	Non-Shrink Grout Inspection
Specification 05 1000	-	Structural Steel Inspection
Specification 05 2000	-	Steel Joist Inspection
Specification 05 3000	-	Metal Deck Inspection

1.06 STATEMENT OF SPECIAL INSPECTIONS

A. Provide testing/inspection required to meet the provisions of the Schedule of Special Inspection Services below.

PART 2 MATERIALS

Not Used.

PART 3 EXECUTION

3.01 STRUCTURAL PRECONSTRUCTION MEETING

A. A structural preconstruction meeting may be conducted at the construction site by the Design Professional to discuss quality issues. The parties involved may be the Design Professional, Contractor, Structural Testing/Inspection Agency, appropriate subcontractors, suppliers, and detailers.

3.02 STRUCTURAL TESTING/INSPECTION AGENCY'S RESPONSIBILITIES

A. Cooperate with the Contractor and provide timely service.

B. Upon arriving at the construction site, sign in and notify the Contractor of presence.

C. Select the representative samples that are to be tested/ inspected.

D. Perform tests/ inspections as outlined in Contract Documents, the applicable codes, and as directed by the Design Professional.

E. Report work and materials not complying with Contract Documents immediately to the Contractor and Design Professional.

F. Leave copies of field notes with the Contractor prior to leaving the construction site. Field notes shall include the message given to the Contractor; date, time of message, name of Contractor's representative informed, type and location of work or materials tested/inspected, whether the work or materials complies with Contract Documents and name of the Structural Testing/Inspection Agency's representative.

G. Report and distribute results of tests/inspections promptly in the form of written reports as directed by the Design Professional.

H. Structural Testing/Inspection Agency shall not alter requirements of Contract Documents, approve or reject any portion of the work, or perform duties of the Contractor.

3.03 CONTRACTOR'S RESPONSIBILITIES

A. Provide copy of Contract Documents to the Structural Testing/Inspection Agency.

B. Arrange the preconstruction meeting to discuss quality issues.

C. Notify the Structural Testing/Inspection Agency sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.

D. Cooperate with Structural Testing/Inspection Agency and provide access to work.

E. Provide samples of materials to be tested in required quantities.

F. Furnish copies of mill test reports when requested.

G. Provide storage space for Structural Testing/Inspection Agency's exclusive use, such as for storing and curing concrete testing samples.

H. Provide labor to assist the Structural Testing/Inspection Agency in performing tests/inspections.

3.04 OPTIONS

A. If the Structural Testing/Inspection Agency is located at such a distance from the project that travel expenses will be a consideration, or if the amount of sampling performed is minor, and by mutual agreement of the Design Professional and Contractor, the Contractor may be requested to take samples and forward them to the Structural Testing/Inspection Agency for testing/inspection.

END OF SECTION

SECTION 031000
CONCRETE FORMWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section includes the design and erection of formwork, shoring and reshoring for cast-in-place concrete and accessories.

1.02 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 032000 - Concrete Reinforcement.

C. Section 033000 - Cast-in-Place Concrete.

1.03 REFERENCES

A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.

B. ACI 301 - Standard Specifications for Structural Concrete.

C. ACI 318 - Building Code Requirements for Structural Concrete.

D. ACI 347 — Guide to Formwork for Concrete.

E. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).

F. ASTM E154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.

1.04 SUBMITTALS

A. Product Data: For each of the following:
1. Exposed surface form-facing material.
2. Concealed surface form-facing material.
3. Form liners.
4. Form ties.
5. Isolation joint filler.
6. Inserts.
7. Waterstops.
8. Form-release agent.

B. Shop Drawings: Prepared by, and signed and sealed by, a qualified professional engineer responsible for their preparation, detailing fabrication, assembly and support of forms.
1. For exposed vertical concrete walls, indicate dimensions and form tie locations.
2. Indicate dimension and locations of construction and movement joints required to construct the structure in accordance with ACI 301.
   a. Location of construction joints is subject to approval of the Architect.
3. Indicate location of waterstops.
4. Indicate form liner layout and form line termination details.
5. Indicate proposed schedule and sequence of stripping of forms, shoring removal and reshoring installation and removal.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Concrete Formwork: Design, engineer, erect, shore and brace, and maintain formwork, shores, and reshores in accordance with ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads, so that resulting concrete conforms to the required shapes, lines, and dimensions.
1. Design wood panel forms in accordance with APA's "Concrete Forming Design/Construction Guide."
2. Design formwork to limit deflection of form-facing material to l/360 of center-to-center spacing of supports.

2.02 FORM-FACING MATERIALS

A. As-Cast Surface Form-Facing Material:
1. Provide continuous, true, and smooth concrete surfaces.
2. Furnish in largest practicable sizes to minimize number of joints.
3. Acceptable Materials: As required to comply with Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete, and as follows:
   a. Plywood, metal, or other approved panel materials.
   b. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
      1) APA HDO (high-density overlay).
      2) APA MDO (medium-density overlay); mill-release agent treated and edge sealed.
      3) APA Structural 1 Plyform, B-B or better; mill oiled and edge sealed.
      4) APA Plyform Class I, B-B or better; mill oiled and edge sealed.

B. Concealed Surface Form-Facing Material: Lumber, plywood, metal, plastic, or another approved material.
1. Provide lumber dressed on at least two edges and one side for tight fit.

2.03 FORMWORK ACCESSORIES

A. Formwork accessories that are embedded in concrete, including ties and hangers, shall be commercially manufactured products. Do not use nonfabricated wire form ties.

2.04 FORM RELEASE AGENT

A. Form release agent shall not bond with, stain, nor adversely affect concrete surfaces and does not impair subsequent treatments of concrete surfaces.
1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
2. Form release agent for form liners shall be acceptable to form liner manufacturer.

2.05 FORM TIES

A. Factory-fabricated, removable or snap-off, glass-fiber-reinforced plastic or metal form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
1. Furnish units that leave no corrodible metal closer than 1 inch (25 mm) to the plane of exposed concrete surface.
2. Furnish ties that, when removed, leave holes no larger than 1 inch (25 mm) in diameter in concrete surface.
3. Furnish ties with integral water-barrier plates to walls indicated to receive dampproofing or waterproofing.

2.06 VAPOR BARRIER

A. Vapor barrier shall consist of polyethylene sheet. See Architect for thickness.

2.07 ISOLATION JOINT FILLER

A. Asphalt impregnated premolded fiberboard isolation joint filler shall conform with ASTM D1751 and be 1/2-inch thick by full thickness of slab or joint, unless indicated otherwise on the Drawings.

2.08 CONSTRUCTION JOINTS

A. Provide key type steel forms by Vulcan screed joints, Burke Keyed Kold joint form or Form-A-Key.

PART 3 EXECUTION

3.01 INSTALLATION OF FORMWORK

A. Comply with ACI 301.

B. Construct formwork, so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 and to comply with the Surface Finish designations specified in Section 033000 "Cast-In-Place Concrete" for as-cast finishes.

C. Limit concrete surface irregularities as follows:
1. Surface Finish-1.0: ACI 117 Class C, 1/2 inch (12 mm).
   a. To be used on concrete surfaces not exposed to view.
2. Surface Finish-2.0: ACI 117 Class B, 1/4 inch (6 mm).
   a. To be used on concrete surfaces exposed to view.

D. Construct forms tight enough to prevent loss of concrete mortar.
1. Minimize joints.
2. Exposed Concrete: Symmetrically align joints in forms.

E. Construct removable forms for easy removal without hammering or prying against concrete surfaces.
1. Provide crush or wrecking plates where stripping may damage cast-concrete surfaces.
2. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
3. Install keyways, reglets, recesses, and other accessories, for easy removal.

F. Do not use rust-stained, steel, form-facing material.

G. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces.
1. Provide and secure units to support screed strips
2. Use strike-off templates or compacting-type screeds.

H. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible.
1. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar.
2. Locate temporary openings in forms at inconspicuous locations.

I. Chamfer exterior corners and edges of permanently exposed concrete. Provide 3/4-inch chamfer at all corners.

J. At construction joints, overlap forms onto previously placed concrete not less than 12 inches.

K. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work.
1. Determine sizes and locations from trades providing such items.
2. Obtain written approval of Architect prior to forming openings not indicated on Drawings.

L. Construction and Movement Joints:
1. Construct joints true to line with faces perpendicular to surface plane of concrete.
2. Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Design Professional.
3. Place joints perpendicular to main reinforcement.
4. Locate joints for beams, slabs, joists, and girders in the middle third of spans.
   a. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
5. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
6. Space vertical joints in walls per Specification 033000 Cast-In-Place Concrete.
   a. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
7. Provide construction joints in accordance with ACI 318.
8. Provide 1 1/2-inch-deep key type construction joints at end of each placement for slabs, beams, walls, and footings. Bevel forms for easy removal.
9. Remove loose particles and latency from surface prior to placing the next lift. Chip the surface to a depth sufficient to expose sound concrete.

M. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection.
1. Locate ports and openings in bottom of vertical forms, in inconspicuous location, to allow flushing water to drain.
2. Close temporary ports and openings with tight-fitting panels, flush with inside face of form, and neatly fitted, so joints will not be apparent in exposed concrete surfaces.

N. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

O. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

P. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement. Do not allow excess form release agent to accumulate in forms or come in contact with concrete surfaces against which fresh concrete will be placed.

3.02 CAMBER

A. Camber formwork for slabs and beams to compensate for anticipated deflections in formwork prior to hardening of concrete to maintain tolerances specified by ACI 117.

B. Set screeds to a like camber to maintain specified concrete thickness.

3.03 FOUNDATION ELEMENTS

A. Form foundation elements if soil or other conditions are such that earth trench forms are unsuitable.

B. Maintain minimum coverage of reinforcing steel as indicated on Structural Drawings.

3.04 INSTALLATION OF WATERSTOPS

A. Flexible Waterstops: Install in construction joints and at other joints indicated to form a continuous diaphragm.
1. Install in longest lengths practicable.
2. Locate waterstops in center of joint unless otherwise indicated on Drawings.
3. Allow clearance between waterstop and reinforcing steel of not less than 2 times the largest concrete aggregate size specified in Section 033000 "Cast-In-Place Concrete."
4. Secure waterstops in correct position at 12 inches (305 mm) on center.
5. Field fabricate joints in accordance with manufacturer's instructions using heat welding.
   a. Miter corners, intersections, and directional changes in waterstops.
   b. Align center bulbs.
6. Clean waterstops immediately prior to placement of concrete.
7. Support and protect exposed waterstops during progress of the Work.

B. Self-Expanding Strip Waterstops: Install in construction joints and at other locations indicated on Drawings, according to manufacturer's written instructions, by adhesive bonding, mechanically fastening, and firmly pressing into place.
1. Install in longest lengths practicable.
2. Locate waterstops in center of joint unless otherwise indicated on Drawings.
3. Protect exposed waterstops during progress of the Work.

3.05 INSTALLATION OF EMBEDDED ITEMS

A. Set and secure embedded plates, bearing plates, and anchor bolts in accordance with approved setting drawings and in such a manner to prevent displacement during placement of concrete.

B. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC 303.

C. Install and secure in position required inserts, hangers, sleeves, anchors, and nailers.

D. Install continuous vertical dovetail anchoring slots with filler strips at intersections of concrete and masonry walls unless indicated otherwise by the Drawings.

E. Clean embedded items immediately prior to concrete placement.

3.06 VAPOR BARRIER

A. Where indicated on Drawings, place vapor barrier over sewer, piping, and granular subbase, but below conduits and ducts, and behind insulation and expansion joints at sidewalls.

B. Lap vapor barrier six inches minimum at splices.

C. Do not puncture vapor barrier.

3.07 REMOVING AND REUSING FORMS

A. Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F (10 deg C) for 24 hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations and curing and protection operations need to be maintained.
1. Leave formwork for beam soffits, joists, slabs, and other structural elements that support weight of concrete in place until concrete has achieved at least 70 percent of its 28-day design compressive strength.
2. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.

B. Clean and repair surfaces of forms to be reused in the Work.
1. Split, frayed, delaminated, or otherwise damaged form-facing material are unacceptable for exposed surfaces.
2. Apply new form-release agent.

C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints.
1. Align and secure joints to avoid offsets.
2. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

3.08 SHORING AND RESHORING INSTALLATION

A. Comply with ACI 318 and ACI 301 for design, installation, and removal of shoring and reshoring.
1. Do not remove shoring or reshoring until measurement of slab tolerances is complete.

B. In multistory construction, extend shoring or reshoring over a sufficient number of stories to distribute loads in such a manner that no floor or member will be excessively loaded or will induce tensile stress in concrete members without sufficient steel reinforcement.

C. Plan sequence of removal of shores and reshore to avoid damage to concrete. Locate and provide adequate reshoring to support construction without excessive stress or deflection.

3.09 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

C. Inspections:
1. Inspect formwork for shape, location, and dimensions of the concrete member being formed.
2. Inspect insulating concrete forms for shape, location, and dimensions of the concrete member being formed.

END OF SECTION

SECTION 032000
CONCRETE REINFORCEMENT

PART 1 GENERAL

1.01 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 031000 — Concrete Formwork

D. Section 033000 — Cast-In-Place Concrete.

1.02 REFERENCES

A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.

B. ACI 301 - Standard Specifications for Structural Concrete.

C. ACI 318 - Building Code Requirements for Structural Concrete.

D. ASTM A1064- Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete Reinforcement.

E. ASTM A615- Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.

F. ASTM A706- Standard Specification for Low-Alloy Steel Deformed Bars for Concrete Reinforcement.

G. AWS D1.4- Structural Weld Code - Reinforcing Steel.

H. CRSI - Manual of Practice, and Documents 63 and 65.

1.03 SUBMITTALS

A. Shop drawings:
1. Notify Design Professional prior to detailing reinforcing steel shop drawings.
2. Include placing drawings that detail fabrication, bending, and placement. Provide elevations of all wall reinforcement.
3. Include locations of proposed construction joints for approval by EOR. Contractor to submit sequence of placing concrete.
4. Include bar sizes, lengths, materials, grades, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, location of splices, lengths of lap splices, details of mechanical splice couplers, details of welding splices, tie spacing, hoop spacing, and supports for concrete reinforcement. Reinforcement detailing of standard hooks, splices and development lengths shall conform to ACI 318 unless noted otherwise on drawings.
5. Include proposed field bending or cutting locations and cutting methods for approval by EOR.
6. Written description of reinforcement without adequate sections, elevations, and details is not acceptable.
7. All revisions to shop drawings shall be clouded.
8. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.

B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced.

C. Submit mill test reports

D. Submit manufacturer's data for tensile and compressive splicers.

E. Submit manufacturer's data including installation recommendations for dowel adhesive.

1.04 QUALITY ASSURANCE

A. Coordinate and schedule in a timely manner with the Structural Testing/Inspection Agency the following quality related items:
1. Verify reinforcing steel for quantity, size, location, and support.
2. Verify proper reinforcing steel concrete coverage.
3. Inspect mechanical splice couplers and reinforcement welding.

B. Structural Testing/Inspection Agency shall provide special inspections as required by Chapter 17 of the building code and as required by Specification 014525.

C. The Structural Testing/Inspection Agency shall be qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1.05 STORAGE AND PROTECTING

A. Store reinforcing steel above ground so that it remains clean. Maintain steel surfaces free from materials and coatings which might impair bond.

PART 2 PRODUCTS

2.01 MATERIALS

A. Deformed reinforcing steel shall conform to ASTM A615, refer to Structural Drawings for grade (Grade 60 minimum).

B. Welded steel wire fabric shall conform to ASTM A1064.

2.02 ACCESSORY MATERIALS

A. Annealed steel tie wire shall be 16-1/2 gage minimum.

B. Bar supports shall be plastic-tipped steel Class I bar supports conforming to CRSI Specifications. Concrete brick may be used to support reinforcement to obtain proper clearance from earth.

2.03 SPLICERS

A. Tensile splicers shall be capable of developing 125% of the reinforcing steel ASTM specified minimum yield strength.

B. Compression splicers shall be the mechanical type such that the compression stress is transmitted by end bearing held in concentric contact.

2.04 DOWEL ADHESIVE

A. Adhesive for reinforcing dowels in existing concrete shall conform to ASTM C881-13, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two component adhesive system contained in side by side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.

PART 3 EXECUTION

3.01 FABRICATION

A. Fabricate steel in accordance with ACI 318 and CRSI standards.

B. Bend bars cold. Do not heat or flame cut bars. No field bending of bars partially embedded in concrete is permitted, unless specifically approved Design Professional and checked by Testing and Inspection Agency for cracks.

C. Weld only as indicated. Perform welding in accordance with AWS D1.4.

D. Tag reinforcing steel for easy identification.

3.02 INSTALLATION

A. Before placing concrete, clean reinforcement of foreign particles and coatings.

B. Place, support on chairs, and secure reinforcement against displacement in accordance with ACI 318 and CRSI standards. Do not deviate from alignment or measurement. Maximum support spacing shall not exceed 48 inches.

C. Place concrete beam reinforcement support parallel to main reinforcement.

D. Install welded-wire reinforcement in longest practicable lengths.
1. Locate welded wire fabric in the top third of slabs unless otherwise noted in drawings. WWF shall be supported on chairs.
2. Overlap mesh one lap plus two inches at side and end joints. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wires.
3. Support spacing of welded wire reinforcement shall not exceed 24 inches, unless noted otherwise on plans.

E. Furnish and install dowels or mechanical splices at intersections of walls, columns and piers to permit continuous reinforcement or development lengths at such intersections.

F. Maintain cover and tolerances in accordance with ACI and CRSI Specifications, unless indicated otherwise on Structural Drawings.

G. Preserve clearance between bars of not less than 1 inch, not less than one bar diameter, or not less than 1-1/3 times size of large aggregate, whichever is greater.

H. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

3.03 INSTALLATION TOLERANCES

A. Comply with ACI 117 for installation tolerances.

3.04 SPLICES

A. Do not splice reinforcement except as indicated on Structural Drawings.

B. Stagger splices in accordance with ACI 318.

C. Tension couplers may be used and installed in accordance with manufacturer's specifications.

3.05 DOWELS IN EXISTING CONCRETE

A. Install dowels and dowel adhesive in accordance with manufacturer's recommendations.

B. Minimum embedment length shall be 12 bar diameters, unless noted otherwise.

END OF SECTION

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PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED SECURITY STRUCTURAL ENGINEER HOLLY C JETTON

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

S-003

6/25/2026 11:09:44 AM

SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section includes cast-in-place concrete work indicated in the Contract Documents or otherwise required for proper completion of the work.

1.02 RELATED SECTIONS

A. Section 013300 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 031000 - Concrete Formwork.

D. Section 032000 - Concrete Reinforcement.

E. Section 036200 - Non-Shrink Grout.

1.03 REFERENCES

A. ACI 301 - Specifications for Structural Concrete for Buildings.

B. ACI 318 - Building Code Requirements for Structural Concrete.

C. ASTM C31 - Standard Practice for Making and Curing Concrete Test Specimens in the Field.

D. ASTM C33 - Standard Specification for Concrete Aggregates.

E. ASTM C39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.

F. ASTM C94 - Standard Specification for Ready-Mixed Concrete.

G. ASTM C138 - Standard Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete.

H. ASTM C143 - Standard Test Method for Slump of Hydraulic Cement Concrete.

I. ASTM C150 - Standard Specification for Portland Cement.

J. ASTM C172 - Standard Practice for Sampling Freshly Mixed Concrete.

K. ASTM C173 - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.

L. ASTM C230 - Standard Specification for Flow Table or Use in Tests of Hydraulic Cement.

M. ASTM C260 - Standard Specification for Air-Entraining Admixtures for Concrete.

N. ASTM C494 - Standard Specification for Chemical Admixtures for Concrete.

O. ASTM C595 — Standard Specification for Blended Hydraulic Cements.

P. ASTM C618 - Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete.

Q. ASTM E1155 - Standard Test Method for Determining Floor Flatness and Levelness Using the F-Number System.

R. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.

1.04 NOTICE

A. Notify Design Professional and Structural Testing/Inspection Agency not less than 48 hours prior to placing concrete.

1.05 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Examine concrete in truck to verify that concrete appears properly mixed.
2. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
3. Concrete testing: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu yd. plus one sample for each additional 100 cu. yd.
   a. At a minimum, obtain 5 compressive strength tests for each concrete mixture per ACI 318.
4. Per composite sample taken, mold four standard cured specimens per set for compressive strength testing. For each set molded, record:
   a. Slump
   b. Air content
   c. Unit weight
   d. Temperature, ambient and concrete
   e. Location of placement
   f. Any pertinent information, such as addition of water, addition of admixtures, etc.
5. Report in writing, as directed by the Design Professional, on the same day that tests are performed. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing agency, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.

B. The ready-mixed concrete plant shall be certified for conformance with the requirements of the National Ready Mix Concrete Association.

C. Installer qualifications: Installer shall be experienced in placing concrete systems similar in complexity to this project as evidenced by 10 completed projects.

D. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required in Specification 01 4525.

1.06 CONCRETE MIX DESIGN

A. Establish concrete mix design proportions in accordance with ACI 318, Chapter 19 and 26 for each concrete strength noted on the contract drawings.

B. Submit concrete mix designs. Include the following:
1. Type and quantities of materials.
2. Slump.
3. Air content.
4. Fresh unit weight.
5. Aggregates sieve analysis.
6. Design compressive strength.
7. Location of placement in structure.
8. Method of placement.
9. Method of curing.
10. Seven-day and 28-day compressive strengths.

C. Concrete supplier shall submit certifications that the materials used meet applicable ASTM Specifications. Mix designs not conforming to the above will be rejected.

D. Limits on cementitious material substitutes in concrete mix design:
1. Fly ash (ASTM C618) 25%
2. Slag Cement (ASTM C989) 30%
3. Total of Fly Ash plus Slag Cement 40%

1.07 SLUMP

A. Design concrete with a maximum slump of five inches.

B. If a slump greater than five inches is desired it shall be achieved with a high-range water reducer. Design the concrete mix with a high range water reducer slump of two and one-half inches plus or minus one and one-half inches. The maximum slump after high-range water reducers are added shall be eight inches.

1.08 FRESH UNIT WEIGHT

A. Normal weight concrete shall have a fresh unit weight of 140 to 152 pcf.

1.09 AIR CONTENT

A. No entrained air content is required in concrete placed in the foundation.

B. Provide entrained air content per the table below and exposure category specified on structural drawings. Tolerance on air content as delivered shall be +/-1.5 percent.

Nominal maximum aggregate size, in.*	Air Content, percent	
	Exposure Class F1	Exposure Classes F2 and F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5
* See ASTM C33 for tolerance on oversize for various nominal maximum size designations.		

1.010 WATER/CEMENT RATIO

A. Concrete elements shall have a maximum water cement ratio of 0.50, unless noted otherwise.

B. Air entrained concrete elements shall have a maximum water cement ratio of 0.45.

C. Concrete elements within an aggressive environment (Exposure Class F2) shall have a maximum water/cement ratio of 0.45.

1.011 SUBMITTALS

A. Submit a concrete mix design as specified above for each type of concrete included in the work.

B. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the ASTM and ACI standards referenced.

C. Submit manufacturer's data including Product Data and installation instructions for the following items. Manufacturer's Data shall include the name of the manufacturer and date of the publication. All manufacturers' data shall be maintained at the project site by the contractor.
1. Admixtures
2. Curing materials
3. Joint sealing materials
4. Expansion joint filler
5. Patching compounds
6. Bonding agents

PART 2 PRODUCTS

2.01 MATERIALS

A. Materials designated by specific manufacturer's trade names are approved, subject to compliance with the quality and performance indicated by the manufacturer. Instructions and specifications, published by the manufacturer of such materials are included in and are a part of these specifications. Upon request, provide certification from manufacturer or supplier that materials designated by reference to ASTM and ACI standards meet the requirements of these standards.

2.02 CONCRETE STRENGTH

A. Provide concrete strengths indicated on the Structural Drawings.

2.03 CEMENTITIOUS MATERIALS

A. Portland cement shall conform to ASTM C150, Type I.

B. Blended Hydraulic Cement shall conform to ASTM C595, Type IL.

C. Fly Ash shall conform to ASTM C618, Class C or F.
1. Class F fly ash shall have a loss on ignition of less than five percent.
2. Class C fly ash shall have a loss on ignition of less than one percent.

D. Slag Cement shall conform to ASTM C989, Grade 100 or 120.

2.04 AGGREGATE

A. Fine aggregate shall conform to ASTM C33.

B. Coarse aggregate of gravel or crushed stone shall conform to ASTM C33, Class 3M. Size coarse aggregate in accordance with ACI 318.

2.05 WATER

A. Water shall be potable and free of deleterious substances in accordance with ACI 318.

2.06 AIR ENTRAINING AGENT

A. Air entraining agent shall conform to ASTM C260.

2.07 WATER REDUCER

A. Water reducing agent shall conform to ASTM C494.

2.08 HIGH-RANGE WATER REDUCER

A. High-range water reducers (superplasticizers) shall conform to ASTM C494.

2.09 CHLORIDE

A. Use no chlorides of any form in concrete.

2.010 CURING MATERIALS

A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.

C. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.
1. Color:
   a. Ambient Temperature Below 50 deg F (10 deg C): Black.
   b. Ambient Temperature between 50 deg F (10 deg C) and 85 deg F (29 deg C): Any color.
   c. Ambient Temperature Above 85 deg F (29 deg C): White.

D. Curing Paper: Eight-feet- (2438-mm-) wide paper, consisting of two layers of fibered kraft paper laminated with double coating of asphalt.

E. Water: Potable or complying with ASTM C1602/C1602M.

F. Clear, Waterborne, Membrane-Forming, Dissipating Curing Compound: ASTM C309, Type 1, Class B.

G. Clear, Waterborne, Membrane-Forming, Nondissipating Curing Compound: ASTM C309, Type 1, Class B, certified by curing compound manufacturer to not interfere with bonding of floor covering].

H. Clear, Waterborne, Membrane-Forming, Curing Compound: ASTM C309, Type 1, Class B, 18 to 25 percent solids, nondissipating, certified by curing compound manufacturer to not interfere with bonding of floor covering].

I. Clear, Solvent-Borne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.

J. Clear, Waterborne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.

2.011 ACCELERATORS

A. Non-chloride accelerators shall conform to ASTM C494.

2.012 RETARDERS

A. Retarders shall conform to ASTM C494.

PART 3 EXECUTION

3.01 HIGH-RANGE WATER REDUCERS

A. High-range water reducers are to be added at dosage recommended by the manufacturer. The slump of the concrete shall be one to four inches at the time the high-range water reducers are added. Do not permit fresh concrete containing superplasticizers to come in contact with fresh concrete not containing superplasticizers.

3.02 ADDITION OF WATER AT JOB SITE

A. Provide batch tickets indicating the amount of mix water withheld at the batch plant for each load of concrete delivered. Water may be added to the batch only if neither the maximum permissible water/cement ratio nor the maximum slump is exceeded.

B. Water shall not be added to the batch after the required on-site testing has been performed.

3.03 PLACEMENT OF CONCRETE

A. Deposit concrete as near as practical to final position to prevent segregation of concrete.

B. Do not use aluminum equipment in placing and finishing concrete.

C. Place thickened slabs for partitions integral with floor slabs.

D. Prepare place of deposit, mix, convey, place, and cure concrete in accordance with ACI 301 and ACI 318. Wet forms before placing concrete.

E. Concrete Placement
1. Before placing concrete, verify that installation of formwork, reinforcement, embedded items, and vapor retarder is complete and that required inspections are completed.
   a. Immediately prior to concrete placement, inspect vapor retarder for damage and deficient installation, and repair defective areas.
   b. Provide continuous inspection of vapor retarder during concrete placement and make necessary repairs to damaged areas as Work progresses.
2. Notify Architect and testing and inspection agencies 24 hours prior to commencement of concrete placement.
3. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect in writing, but not to exceed the amount indicated on the concrete delivery ticket.
   a. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
4. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301 (ACI 301M), but not to exceed the amount indicated on the concrete delivery ticket.
   a. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
5. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
   a. If a section cannot be placed continuously, provide construction joints as indicated.
   b. Deposit concrete to avoid segregation.
   c. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
   d. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301 (ACI 301M).
   1) Do not use vibrators to transport concrete inside forms
   2) Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches (150 mm) into preceding layer.
   3) Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.
   4) At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
6. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
   a. Do not place concrete floors and slabs in a checkerboard sequence.
   b. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
   c. Maintain reinforcement in position on chairs during concrete placement.
   d. Screed slab surfaces with a straightedge and strike off to correct elevations.
   e. Level concrete, cut high areas, and fill low areas.
   f. Slope surfaces uniformly to drains where required.
   g. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface.
   h. Do not further disturb slab surfaces before starting finishing operations.

3.04 TIME LIMIT

A. Deposit concrete within one and one-half hours after batching.

3.05 FINISHING FORMED SURFACES

A. As-Cast Surface Finishes:
1. ACI 301 Surface Finish SF-1.0: As-cast concrete texture imparted by form-facing material.
   a. Patch voids larger than 1-1/2 inches (38 mm) wide or 1/2 inch (13 mm) deep.
   b. Remove projections larger than 1/2 inch (25 mm).
   c. Tie holes do not require patching.
   d. Surface Tolerance: ACI 117 Class C.
   e. Apply to concrete surfaces not exposed to public view.
2. ACI 301 Surface Finish SF-2.0: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams.
   a. Patch voids larger than 3/4 inch (19 mm) wide or 1/2 inch (13 mm) deep.
   b. Remove projections larger than 1/4 inch (6 mm).
   c. Patch tie holes.
   d. Surface Tolerance: ACI 117 Class B.
   e. Locations: Apply to concrete surfaces exposed to public view.
3. ACI 301 Surface Finish SF-3.0:
   a. Patch voids larger than 3/4 inch (19 mm) wide or 1/2 inch (13 mm) deep.
   b. Remove projections larger than 1/8 inch (3 mm).
   c. Patch tie holes.
   d. Surface Tolerance: ACI 117 Class A.
   e. Locations: Apply to concrete surfaces exposed to public view.

3.06 CURING

A. Begin curing procedures immediately following the commencement of the finishing operation.

B. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
1. Maintain moisture loss no more than 0.2 lb/sq. ft. x h (1 kg/sq. m x h), calculated in accordance with ACI 305.1, before and during finishing operations.

C. Curing Formed Surfaces: Comply with ACI 308.1 as follows:
1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
2. Cure concrete containing color pigments in accordance with color pigment manufacturer's instructions.
3. If forms remain during curing period, moist cure after loosening forms.
4. If removing forms before end of curing period, continue curing for remainder of curing period, as follows:
   a. Continuous Fogging: Maintain standing water on concrete surface until final setting of concrete.
   b. Continuous Sprinkling: Maintain concrete surface continuously wet.
   c. Absorptive Cover: Pre-dampen absorptive material before application; apply additional water to absorptive material to maintain concrete surface continuously wet.
   d. Water-Retention Sheeting Materials: Cover exposed concrete surfaces with sheeting material, taping, or lapping seams.
   e. Membrane-Forming Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
      1) Recoat areas subject to heavy rainfall within three hours after initial application.
      2) Maintain continuity of coating and repair damage during curing period.

D. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:
1. Begin curing immediately after finishing concrete.
2. Interior Concrete Floors:
   a. Floors to Receive Floor Coverings Specified in Other Sections: Contractor has option of the following:
      1) Absorptive Cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
         i. Lap edges and ends of absorptive cover not less than 12-inches (300-mm).
         ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days.
      2) Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive.
         i. Immediately repair any holes or tears during curing period, using cover material and waterproof tape.
         ii. Cure for not less than seven days.
      3) Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
         i. Water.
         ii. Continuous water-fog spray
   b. Floors to Receive Penetrating Liquid Floor Treatments: Contractor has option of the following:
      1) Absorptive cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
         i. Lap edges and ends of absorptive cover not less than 12 inches.
         ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days.
      2) Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive.
         i. Immediately repair any holes or tears during curing period, using cover material and waterproof tape.
         ii. Cure for not less than seven days.
      3) Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
         i. Water.
         ii. Continuous water-fog spray.
   c. Floors to Receive Polished Finish: Contractor has option of the following:
      1) Absorptive Cover: As soon as concrete has sufficient set to permit application without marring concrete surface, install prewetted absorptive cover over entire area of floor.
         i. Lap edges and ends of absorptive cover not less than 12 inches.
         ii. Maintain absorptive cover water saturated, and in place, for duration of curing period, but not less than seven days..
      2) Ponding or Continuous Sprinkling of Water: Maintain concrete surfaces continuously wet for not less than seven days, utilizing one, or a combination of, the following:
         i. Water.
         ii. Continuous water-fog spray.
   d. Floors to Receive Curing Compound:
      1) Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
      2) Recoat areas subjected to heavy rainfall within three hours after initial application.
      3) Maintain continuity of coating, and repair damage during curing period.
      4) Removal: After curing period has elapsed remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer unless manufacturer certifies curing compound does not interfere with bonding of floor covering used on Project.
   e. Floors to Receive Curing and Sealing Compound:
      1) Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller in accordance with manufacturer's written instructions.
      2) Recoat areas subjected to heavy rainfall within three hours after initial application.
      3) Repeat process 24 hours later and apply a second coat. Maintain continuity of coating, and repair damage during curing period.

3.07 ENVIRONMENTAL PROVISIONS

A. Hot weather concrete
1. Procedure applies when concrete mix starts to exceed 77 degrees Fahrenheit.
2. Forms, reinforcing steel and subgrade shall be fogged or sprinkled with cool water. prior to concrete in placement.
3. Expedite all elements of the concrete placement.
4. Moist curing shall commence as soon as the surfaces are finished and shall continue for at least seven days.
5. Hot weather concreting shall comply with ACI 305.1.

B. Cold weather concrete
1. Procedure applies when a period of more than 3 successive days the average daily air temperature drops below 40 degrees Fahrenheit and stays below 50 degrees for more than one half of any 24-hour period.
2. Provide wind break or heated enclosure to protect freshly placed concrete.
3. During curing protect concrete with polyethylene sheets or insulating blankets for at least seven days.
4. In no instance shall the concrete temperature drop below 50 degrees Fahrenheit prior to stripping forms and reshoring the structure.
5. Cold weather concreting shall comply with ACI 306.1.

C. Protect concrete from drying and excessive temperature for the first seven days.

D. Protect fresh concrete from wind.

3.08 CONTRACTION JOINTS

A. Obtain Design Professional 's approval for location of contraction joints.

B. Do not place contraction joints in framed floors, composite slabs, or shear walls.

C. Place contraction joints in slabs-on-grade as indicated on the Drawings.

3.09 CUTTING CONCRETE

A. Obtain Design Professional's written approval prior to cutting concrete for installation of other work.

3.010 PATCHWORK AND REPAIRS

A. Notify Design Professional of any defective areas in concrete to be patched or repaired. Repair and patch defective areas with non-shrink grout. Cut out defective areas over two inches in diameter to solid concrete, but not less than a depth of one inch. Make edges of cuts perpendicular to the concrete surface.

3.011 JOINT FILLING

A. Prepare, clean, and install joint filler in accordance with manufacturer's written instructions.
1. Defer joint filling until concrete has aged at least three months.
2. Do not fill joints until construction traffic has permanently ceased.

B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joints clean and dry.

C. Install semirigid joint filler full depth in saw-cut joints and at least 2 inches deep in formed joints.

D. Overfill joint, and trim joint filler flush with top of joint after hardening.

3.012 CONCRETE FINISHES

A. Finish concrete in accordance with ACI 301.

B. Finish concrete slabs to flatness and levelness tolerances which correspond to FF 25/FL 20 minimum overall for composite of all measured values and FF 17/FL 12 minimum for any individual floor section.

C. For concrete slabs to receive thin-set flooring, finish to flatness and levelness tolerances which correspond to FF 35/FL 25 minimum overall for composite of all measured values and FF 25/FL 20 minimum for any individual floor section.

D. For concrete slabs to receive wood flooring, finish to flatness and levelness tolerances which correspond to FF 45/FL 30 minimum overall for composite of all measured values and FF 30/FL 20 minimum for any individual floor section.

E. For metal deck construction, floors shall be finished to an FF 25.

F. For shored construction, FL values do not apply if slab is tested after shoring is removed.

G. Slabs, which do not meet the flatness and levelness criteria shall be repaired or replaced.

3.013 FIELD QUALITY CONTROL

A. Special Inspections: Special inspector to perform field tests and inspections and prepare testing and inspection reports.

B. Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.

C. For each load delivered, submit three copies of batch delivery ticket to testing agency, indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, design slump at time of batching, and amount of water that can be added at Project site.

D. Inspections:
1. Headed bolts and studs.
2. Verification of use of required design mixture.
3. Concrete placement, including conveying and depositing.
4. Curing procedures and maintenance of curing temperature.
5. Verification of concrete strength before removal of shores and forms from beams and slabs.
6. Batch Plant Inspections: On a random basis, as determined by Architect.

E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172 shall be performed in accordance with the following requirements:
1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture for each 100 cubic yards per Section 1.
   a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143:
   a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
   b. Perform additional tests when concrete consistency appears to change.
3. Slump Flow: ASTM C1611:
   a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
   b. Perform additional tests when concrete consistency appears to change.
4. Air Content: ASTM C231 pressure method, for normal-weight concrete;
   a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
5. Concrete Temperature: ASTM C1064:
   a. One test hourly when air temperature is 40 deg F (4.4 deg C) and below or 80 deg F (27 deg C) and above, and one test for each composite sample.
6. Unit Weight: ASTM C138 fresh unit weight of structural concrete or ASTM C567 fresh unit weight of structural lightweight concrete.
   a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
7. Compression Test Specimens: ASTM C31:
   a. Cast and laboratory cure four 6-inch (150 mm) by 12-inch (300 mm) cylinder specimens for each composite sample. If testing agency chooses to use 4 inch by 8 inch cylinders an additional cylinder will be required.
8. Compressive-Strength Tests: ASTM C39.
   a. From each set:
      1) Test one laboratory-cured specimen at seven days and two specimens at 28 days. Fourth specimen is to be held in reserve.
   b. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated. If 4 inch by 8 inch cylinders are used, it shall be from a set of three specimens.
9. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
10. Strength of each concrete mixture will be satisfactory if both of the following conditions are met:
    a. Every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength.
    b. No compressive-strength test value falls below the specified compressive strength by: more than 500 psi (3.4 MPa) when specified compressive strength is less than or equal to 5000 psi (34.5 MPa) or more than 10 percent of specified compressive strength when the specified compressive strength is greater than 5000 psi (34.5 MPa).
11. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
12. Additional Tests:
    a. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
    b. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

F. Measure floor and slab flatness and levelness in accordance with ASTM E1155 within 72 hours of completion of floor finishing and promptly report test results to Architect.

END OF SECTION

SECTION 036200
NON-SHRINK GROUT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section includes non-shrink grout under base plates, bearing plates, and where specified in Contract Documents.

1.02 RELATED SECTIONS

A. Section 013300 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

1.03 REFERENCES

A. ASTM C1107 — Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink).

B. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens).

1.04 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Perform compressive strength tests in accordance with ASTM C109 with 2-inch x 2-inch cubes. Test one cube at three days, two cubes at seven days and three cubes at 28 days. Perform one test for each ten bags of grout used or one test in accordance with day of grouting.

1.05 SUBMITTALS

A. Submit product data sheets for review.

PART 2 PRODUCTS

2.01 GROUT

A. Provide a non-shrink, non-metallic grout that complies with ASTM C1107.

B. Grout shall have a minimum compressive strength of 5000 psi at 28 days.

2.02 WATER

A. Provide clean, potable water.

PART 3 EXECUTION

3.01 HANDLING

A. Store and protect non-shrink grout from moisture and conta-mina-tion.

3.02 PREPARATION

A. Remove mud, dirt and other foreign materials from areas to be grouted.

3.03 MIXING

A. Mix grout to its fluid, self-leveling consistency in accordance with manufacturers recommendations. Do not retemper grout. Do not exceed manufacturer's maximum limit on water content or use at a consistency which produces free bleeding. Mix grout in a paddle-type mortar mixer. Do not mix by hand.

3.04 PLACEMENT

A. Consolidate grout to provide uniformity. Do not vibrate grout.

B. Use forms to contain grout.

3.05 PROTECTION

A. Protect grout and areas to be grouted from excessive heat and cold in accordance with manufacturer's specifications. Protect grout from excessive drying shrinkage resulting from wind or direct sunlight. Protect areas grouted from excessive vibrations for three days.

END OF SECTION

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PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

STATE OF GEORGIA — REGISTERED — 36614 — STRUCTURAL ENGINEER — KELLY C JEFFRIES

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

S-004

6/25/2026 11:06:56 AM

SECTION 051000
STRUCTURAL STEEL

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Section includes fabrication and erection of structural steel indicated in the Contract Documents or otherwise required for proper completion of the work.

1.02 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 052000 - Steel Joists.

D. Section 053000 - Metal Decking.

1.03 REFERENCES

A. AISC - Code of Standard Practice for Steel Buildings and Bridges.

B. AISC 360-16 - Standard Specification for Structural Steel Buildings, 15th Edition.

C. RCSC - Specification for Structural Joints Using High-Strength Bolts.

D. AWS A5.1 - Specification for Carbon Steel Electrodes for Shield Metal Arc Welding.

E. AWS A5.5 - Specification for Low-Alloy Steel Covered Arc Welding Electrodes.

F. AWS A5.17 - Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding.

G. AWS A5.20 - Specification for Carbon Steel Electrodes for Flux Cored Arc Welding.

H. AWS D1.1 - Structural Welding Code.

I. ASTM A36 - Standard Specification for Structural Steel.

J. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

K. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

L. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.

M. ASTM F3125 — Standard Specification for High Strength Structural Bolts, Steel and Alloy Steel, Heat Treated, 120 ksi and 150 ksi Minimum Tensile Strength, Inch and Metric Dimensions.

N. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Tubing in Rounds and Shapes.

O. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.

P. ASTM A563 — Standard Specifications for Carbon and Alloy Steel Nuts.

Q. ASTM A780 - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings.

R. ASTM A992 - Standard Specification for Steel for Structural Shapes For Use in Building Framing

S. ASTM F436 - Standard Specification for Hardened Steel Washers.

T. ASTM F844 - Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use.

U. ASTM A563 — Standard Specifications for Carbon and Alloy Steel Nuts.

V. SSPC - Steel Structures Painting Manual.

1.04 SUBMITTALS

A. Contact Design Professional prior to detailing structural steel shop drawings.

B. Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.

C. Submit shop drawings for review.

D. Shop drawings shall clearly indicate the profiles, sizes, ASTM Grade, spacings and locations of all structural steel members, including connections, attachments, anchorages, framed openings, sizes and types of fasteners, method of tightening fasteners, cambers, and the number, type and spacing of the headed shear connectors.

E. For connections and elements designed by the contractor, submit shop drawings and calculations sealed by an engineer licensed in the project state.

F. For record only, submit written welding procedures for each type of welded joint used in accordance with Appendix E of the AWS Structural Welding Code. Submit manufacturer certifications for welding consumables/materials.

G. Maintain at construction office mill certification that the steel supplied meets the specifications.

H. Maintain at construction office certification that high strength bolts supplied meet the specifications.

I. Submit certification that the fabricator meets the required qualifications. If fabricator must have an independent testing agency to inspect fabrication as required by these specifications, submit the name and qualifications of the independent testing agency.

J. For each approved fabricator that is exempt from Special Inspections of shop fabrications and implementation procedures in accordance with Section 1704.2 of the Building Code, submit "Fabricator's Certificate of Compliance". Provide copies of fabricator's certification or building code evaluation services report and fabricator's quality control manual.

K. Submit certification that the erector meets the required qualifications.

L. Upon request, submit the erection sequence and procedures to be used by the steel erector.

M. Manufacturer's recommendations for expansion anchor installation.

N. Manufacturer's recommendations for adhesive anchor installation.

O. Qualification Data: For Erector, manufacturer, professional engineer, land surveyor and testing agency.

1.05 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Anchor Bolts
   a. Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
2. Welded Connections
   a. Inspection shall be in accordance with AWS Structural Welding Code.
   b. Visually inspect all field welded connections. Visual inspection of welded joints includes periodic examination of fllup.
   c. Ultrasonically inspect 100% of the complete penetration welds.
   d. Review approved welding procedures. Verify that welding procedures are being adhered to during field welding.
   e. Verify welder qualifications.
3. Bolted Connections
   a. Inspection and testing shall be in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts.
   b. Prior to visual and physical testing, tension testing using a calibration device must indicate tensions at least 5% in excess of the AISC minimum. Structural steel erector shall supply the tension calibration device.
   c. Test a minimum of 10% of the bolted connections.

B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 014525.

1.06 FABRICATOR'S QUALIFICATIONS

A. Steel fabricator shall be certified by the American Institute of Steel Construction (AISC) Quality Certification Program for Conventional Steel Buildings (BU).

B. Fabricator not certified by the AISC Quality Certification Program shall have fabrication procedures and fabricated steel tested and inspected by the Materials Testing and Special Inspection Agency contracted by the Owner Payment of these tests and inspections shall be by the fabricator. Tests and inspections shall be performed by AWS Certified Welding Inspectors. Prior to delivery of structural steel to the project, submit copies of the inspection reports to the Design Professional. The purpose of this inspection is to enable the testing/inspection agency to verify that, in general, the steel is being fabricated in accordance with the Contract Documents. A minimum of one trip per week is recommended. The first trip should be scheduled at the first requirement for inspections as required by IBC Chapter 17. Contact Design Professional prior to initial inspection. Tests and inspections shall include the following:
1. Examine mill test reports and verify that material being used is the same as the mill test reports.
2. Review the fabricator's written welding procedures. Verify that the fabricator's welding procedures are being followed. Verify that welders are certified with current papers and that they demonstrate proper techniques.
3. Observe high strength bolting procedures. Verify that shop installation of high strength bolts conform to AISC specifications.
4. Examine joint preparation for complete penetration joints. Ultrasonically inspect 100% of the complete penetration welds.
5. Examine fillet welds for proper size, profile, throat, porosity and end returns.
6. Examine steel members for lamellar tearing. Spot check dimensions and hole sizes.
7. Examine bolted areas for burrs.

1.07 ERECTOR'S QUALIFICATION

A. Erector shall be experienced in erecting structural systems similar in complexity to this project as evidenced by 10 completed projects.

B. Erector shall have a minimum of 5 years' experience in the erection of structural steel or is an AISC Certified Advanced Steel Erector.

1.08 WELDER'S QUALIFICATIONS: Qualify procedures and personnel in accordance with AWS D1.1.

1.09 STORAGE

A. Store materials off ground to permit easy access for inspection and identification. Store steel members and packaged items in a manner that provides protection against contact with deleterious materials.

PART 2 - PRODUCTS

2.01 ANCHOR ROD

A. Anchor rods shall conform to ASTM F1554, Grade 36 (unless noted otherwise on drawings) and shall be a headed rod or threaded rod with a double heavy hexagonal nut at the bottom of the threaded rod, Grade A563A, unless noted otherwise.

B. Provide two heavy hexagonal nuts at the base of the anchor rod conforming to ASTM A563 Grade C with one plain steel washer between conforming to ASTM F844. Provide one hexagonal nut at the top with plate washer listed below.

C. Provide 3/8-inch-thick plate washers (3-inch x 3-inch) in lieu of top steel washer on base plates with oversized holes conforming to ASTM A36, unless noted otherwise on drawings.

2.02 ROLLED STEEL WIDE FLANGE, CHANNEL AND WT SHAPES

A. Rolled steel wide flange, channels and WT shapes shall conform to ASTM A992.

2.03 PLATES, ANGLES AND BARS

A. Plates, angles and bars shall conform to ASTM A36.

2.04 ROUND STRUCTURAL STEEL TUBING

A. Round structural steel tubing shall conform to ASTM 500, Grade C, 46 ksi minimum yield strength.

2.05 RECTANGULAR STRUCTURAL STEEL TUBING

A. Rectangular structural steel tubing shall conform to ASTM A500, Grade C, 50 ksi minimum yield strength.

B. Hardened steel washers shall conform to ASTM F436.

2.06 HIGH-STRENGTH FASTENERS

A. High-strength bolts shall conform to ASTM F3125 Type 1, 120 ksi as noted on the Structural Drawings.

B. Provide 3/4-inch minimum diameter bolts, unless noted otherwise.

C. Hardened steel washers shall conform to ASTM F436.

D. Spline-type tension control bolts, plain hardened washers and suitable nuts are an acceptable alternate design bolt assembly.

E. Do not use load indicating washers.

2.07 HEADED STUDS

A. Headed steel studs shall conform to the requirements of AWS D1.1.

B. Provide 3/4-inch diameter headed steel studs, unless noted otherwise.

C. Provide heat-resistant ceramic arc shields with studs.

2.08 EXPANSION ANCHORS

A. Expansion anchors shall have been evaluated by the ICC Evaluation Services, Inc. (ICC-ES) or IAPMO Uniform ES (UES) with a published evaluation report. Anchors shall be evaluated by ICC-ES Acceptance Criteria 193 and be specifically approved for use in cracked concrete. All anchors shall be approved for resisting wind and seismic loads.

2.09 ADHESIVE ANCHORS

A. Adhesive anchors shall consist of:
1. An all-thread steel anchor conforming to ASTM A307, Grade A or ASTM A36, zinc plated in accordance with ASTM B633, unless noted otherwise on the Structural Drawings, and
2. An adhesive conforming to ASTM C881-02, Type IV, Grade 3, CLASS A, B, & C except gel times and epoxy content. Adhesive shall consist of a two-component adhesive system contained in side-by-side packaging connected to a mixing nozzle which thoroughly mixes the components as it is injected into the hole. Adhesive shall have passed ICC Evaluation Services, Inc. Acceptance Criteria 308 for long term creep and be specifically approved for use in cracked concrete.

2.010 WELD ELECTRODES

A. E-70 series low hydrogen electrodes shall conform to AWS A5.1, A5.5, A5.I7, or A5.20.

B. Properly store electrodes to maintain flux quality.

2.011 PAINT

A. Oxide primer shall conform to AISC Specifications, Code of Standard Practice, and SSPC Steel Structure Painting Manual, unless indicated otherwise.

B. Paint primer shall be free of lead and chromate and shall comply with State and Federal volatile organic compound (VOC) requirements.

C. Paint primer shall be compatible with finish coating.

2.012 GALVANIZING

A. Galvanized coating shall conform to ASTM A123.

B. Galvanize bolts, nuts, and washers in accordance with ASTM A153 when used to connect steel members that are specified to be galvanized.

C. Expansion anchors or adhesive anchors specified to be galvanized shall be mechanically galvanized in accordance with ASTM B695, Class 65, Type I.

PART 3 - EXECUTION

3.01 GENERAL

A. Fabricate and erect structural steel in accordance with AISC Specifications and Code of Standard Practice.

B. Notify Design Professional and Structural Testing/Inspection Agency at least 48 hours prior to structural steel fabrication and erection.

3.02 ANCHOR BOLT SETTING

A. Provide templates for setting anchor bolts. Position anchor bolts by using templates with two nuts to secure in place prior to placement of concrete.

B. Do not erect steel where anchor bolt nuts will not have full threads.

3.03 CONNECTIONS

A. Provide a minimum of two fasteners at each bolted connection.

B. Ensure fasteners are lubricated prior to installation.

C. Provide high-strength bolted connections in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts using ASTM F3125 Bolts.

D. Provide connections for expansion and contraction where steel beams connect to concrete walls or concrete columns and at expansion joints. Secure nuts on bolts against loosening. (Dent threads with a chisel.)

3.04 FASTENER INSTALLATION

A. Bolts shall be installed in holes of the connection and brought to snug tight condition. Tighten connection progressing systematically from the most rigid part to the free edges of the connection to minimize relaxation of the bolts.

B. High-strength bolts installed shall have a hardened washer under the element turned in tightening.

C. Installation and tightening of bolts shall conform to the RCSC Specification for Structural Joints Using High-Strength Bolts

3.05 HEADED STUDS

A. Headed studs shall be welded in accordance with AWS D1.1.

B. Locate shear studs directly over the web of beams with flanges less than 0.3 inches thick.

C. The minimum center spacing shall be 6 diameters along the longitudinal axis of the beam and 4 diameters transverse to the longitudinal axis of the beam.

D. Where double rows of shear studs are required, begin double rows at each end of the beam.

E. Remove shields after welding studs.

3.06 EXPANSION ANCHOR INSTALLATION

A. Install in accordance with manufacturer's recommendation.

B. Minimum embedment shall be equal to 4.5 times the anchor diameter unless noted otherwise.

3.08 WELDING

A. Comply with AWS D1.1 Structural Welding Code. Use prequalified weld procedures.

B. Provide end returns where fillet welds terminate at end or sides. Returns shall be continuous for a distance of not less than two times the nominal size of the weld.

C. Complete penetration joints shall be back gouged to sound metal before the second side is welded or have 1/4-inch root opening with 3/16 x 1 inch backing bar. Access holes are required. Filling access holes is not required.

D. Remove all slag and weld splatter from deposited weld metal.

3.09 SPLICING

A. Splice members only where indicated unless authorized in writing by the Design Professional.

B. Provide shim plates at bottom flange splice at continuous beam splices with different depths.

3.010 CUTTING

A. Do not use flame cutting to correct errors unless authorized in writing.

B. Re-entrant corners shall have a minimum radius of one inch and be free of notches. Notches and gouges resulting from flame cutting shall be finished to a smooth appearance.

3.011 MILL SCALE

A. Remove loose mill scale.

3.012 BOLT HOLES

A. Cut, drill, or punch holes perpendicular to metal surfaces. Do not enlarge holes by burning. Drill or punch holes in bearing plates. Remove burrs.

3.013 PAINTING

A. Paint steel that is not encased in concrete, plaster, or sprayed fireproofing. Do not shop paint in areas to be field welded, contact surfaces of slip critical connections, or areas to receive special finishes.

B. Field paint as required steel that has been welded or that is unpainted after connections have been tightened.

3.014 GALVANIZING

A. Galvanize shelf angles that support the exterior building veneer, for example brick shelf angles.

B. Galvanize environmentally exposed steel, for example mechanical equipment or balcony supports.

C. Touch-up welds and abrasions in galvanized members in accordance with ASTM A780.

3.015 REPAIR

A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing, and repair galvanizing to comply with ASTM A780.

3.016 FIELD QUALITY CONTROL

A. Special inspector to perform the following special inspections in accordance with specification section 01 4525
1. Bolted Connections: Inspect bolted connections in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts."
2. Welded Connections: Visually inspect field welds in accordance with AWS D1.1.
   a. In addition to visual inspection, test and inspect field welds in accordance with AWS D1.1 and the following inspection procedures, at testing agency's option:
      1) Liquid Penetrant Inspection: ASTM E165.
      2) Magnetic Particle Inspection: ASTM E709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
      3) Ultrasonic Inspection: ASTM E164.
      4) Radiographic Inspection: ASTM E94.

END OF SECTION

SECTION 052000
STEEL JOISTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section includes the manufacture and erection of steel joists and joist girders shown on the Drawings.

1.02 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 051000 - Structural Steel.

D. Section 053000 - Metal Decking.

1.03 REFERENCES

A. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.

B. AWS D1.1 - Structural Welding Code.

1.04 DESIGN REQUIREMENTS

A. Steel joists and bridging shall be designed by an engineer licensed in the project state.

B. Design joists and bridging in accordance with the Steel Joist Institute (SJI) Standard Specifications.

C. Refer to Drawings for special design requirements, if any.

D. Top chord extensions or extended ends are to be designed for the same tabulated uniform loads used in the design of the associated joists and for a concentrated load of 500 pounds at the end of the extension or extended end, unless noted otherwise on the Drawings.

E. Steel joist deflections shall be designed for L/240 under total load (dead + live) and L/360 under live load.

1.05 SUBMITTALS

A. Submit certification letter stating compliance with SJI specifications.

B. Submit detailed shop drawings showing layout of joist units, special connections, and accessories. Include the mark, number, type, location, and spacing of joists and bridging.

C. Submit signed and sealed calculations by the design engineer for review.

D. Upon request, submit mill test certificates.

E. Upon request, submit written welding procedures for each type of welded joint used. Use prequalified joints.

F. Upon request, submit the erection sequence and procedures to be used by the steel erector.

1.06 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Visual inspection of bolted and welded connections.
2. Verify installation of bridging or braces.
3. Verify connections for top and bottom chords.
4. Verify reinforcement of members for concentrated loads.
5. Verify proper bearing.

B. The Structural Testing / Inspection Agency shall provide special inspections as required by Chapter 17 of the building code as required by Specification 01 4525.

1.07 QUALIFICATIONS

A. Manufacturer shall verify that design and manufacture of joists and joist girders conforms with SJI Standard Specifications.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store and handle joists as recommended in SJI Standard Specifications.

PART 2 PRODUCTS

2.01 ROLLED STEEL PLATES, SHAPES, AND BARS

A. Steel shall conform to SJI Standard Specifications.

2.02 UNFINISHED BOLTS, WASHERS, AND NUTS

A. Unfinished bolts shall conform to ASTM A307, Grade A, 60 ksi minimum tensile strength. Provide compatible hexagonal nuts and plain washers.

2.03 WELD ELECTRODES

A. E-70 series low hydrogen electrodes conforming to AWS A5.1 or A5.5, A5.17 or A5.20.

B. Provide proper storage for electrodes to maintain flux quality.

2.04 PAINT

A. Primer shall conform to AISC Specifications and Code of Standard Practice and SSPC Steel Structures Painting Manual.

PART 3 EXECUTION

3.01 MANUFACTURE AND ERECTION

A. Manufacture and erect joists in accordance with SJI Standard Specifications.

B. Members shall have parallel top and bottom chords unless otherwise indicated.

C. Fabricate bearings which rest on sloped surfaces with a slope which conforms to that of the support unless otherwise approved.

D. Provide for connections of kickers and hangers to members.

E. Provide bottom chord extensions at columns and as indicated by the Contract Drawings. Weld bottom chords to members after dead loads have been applied.

F. Provide ceiling extensions in areas having ceilings attached directly to joist bottom chord (not suspended ceilings). Extend ends to within 1/2 inch of the finished wall surface unless otherwise indicated.

G. Camber joists according to SJI Standard Specifications. Negative camber and bent joists are unacceptable.

H. Do not erect joists until supporting work is secured.

I. Provide bridging complying with SJI Standard Specifications. Provide for connections where bridging terminates.

3.02 CONCENTRATED LOADS ON JOISTS

A. Concentrated loads not shown on Drawings must be verified by joist manufacturer for adequacy of joist design. The necessity of any reinforcement required for concentrated loads applied to either the top or bottom chord shall be designed by joist manufacturer.

3.03 HEADER UNITS

A. Provide header units to support openings in floor or roof system not framed with steel shapes.

3.04 SHOP PAINTING

A. Remove loose scale, heavy rust, and other foreign materials from joists and accessories before application of shop paint.

B. Apply one shop coat of steel joist primer paint to joists and accessories, by spray, dipping, or other method to provide a continuous dry paint film thickness of not less than 1.50 mil.

3.05 BEARING

A. Extend ends of steel joists not less than 4 inches over masonry and concrete supports. Extend ends of joists not less than 2-1/2 inches over steel supports. Positive attachment to support shall be made by welding or bolting. In such cases where a shorter end bearing length must be used, such condition must be designed.

B. "U" type anchors are not acceptable unless authorized in writing.

3.06 WELDING

A. Perform welding in accordance with AWS D1.1 "Structural Welding Code". Use AWS Certified Welders.

B. Weld ends of joists resting on steel supports with the minimum weld specified by the SJI standard specifications, unless otherwise indicated on Contract Drawings.

C. Remove all slag and weld splatter from deposited weld material.

3.07 BRIDGING INSTALLATION

A. Permanently fasten bridging before the application of loads.

B. In areas where joists will be exposed to view, align bridging in straight rows to create uniform appearance.

3.08 PROTECTION

A. Provide means for adequate distribution of concentrated loads so that carrying capacity of joists is not exceeded during construction.

B. Provide temporary bridging, bracing, connections, and anchors to ensure lateral stability during construction.

C. Joists damaged during construction shall be replaced or repaired with procedures submitted by the joist manufacturer.

3.09 REPAIRS

A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A780 and manufacturer's written instructions.

B. Touchup Painting:
1. Immediately after installation, clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of primed joists, bearing plates, abutting structural steel, and accessories.
   a. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.
   b. Apply a compatible primer of same type as primer used on adjacent surfaces.

3.010 CUTTING

A. Do not field cut or apply heat to joists or joist girders unless authorized in writing.

3.011 FIELD QUALITY CONTROL

A. Testing Agency: Owner shall engage a qualified testing agency to perform tests and inspections.

B. Visually inspect field welds according to AWS D1.1.

1. In addition to visual inspection, test field welds according to AWS D1.1 and the following procedures, at testing agency's option:
   a. Liquid Penetrant Inspection: ASTM E165.
   b. Magnetic Particle Inspection: ASTM E709.
   c. Ultrasonic Testing: ASTM E164.
   d. Radiographic Testing: ASTM E94.

C. Visually inspect bolted connections.

D. Prepare test and inspection reports.

END OF SECTION

SECTION 053000
METAL DECKING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Section includes metal decking as indicated on Drawings, specified herein, and needed for a complete and proper installation.

1.02 RELATED SECTIONS

A. Section 013330 - Structural Submittals.

B. Section 014525 - Structural Testing/Inspection Agency Services.

C. Section 051000 - Structural Steel.

D. Section 052000 - Steel Joists.

1.03 REFERENCES

A. AISI - Specifications for the Design of Cold-Formed Steel Structural Members.

B. AWS D1.1 - Structural Welding Code.

C. AWS A5.5 - Specifications For Low Alloy Steel Covered Arc-Welding.

D. SDI - Basic Design Specifications.

E. SDI - Steel Roof Deck Design Manual.

F. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process.

G. AWS D1.3 — Specification for Welding Sheet Steel in Structures.

1.04 SUBMITTALS

A. Notify the Design Professional prior to detailing shop drawings.

B. Submit detailed shop drawings showing layout and types of deck panels, weld sizes, weld patterns and conditions requiring closure panels, finishes, supplementary framing, sump pans, cant strips, cut openings, special jointing or other accessories. Include calculations and required information if not completely covered by load tables and products data.

C. Submit mill certification that the steel supplied meets the required specifications.

D. Submit written welding procedures.

E. Submit manufacturer's specificatione, section properties, load tables, diaphragm shear tables, noise reduction coefficients (if applicable) and installation instructions for each type of decking and accessories. Include manufacturer's certifications to show compliance with supplementary framing, sump pans, cant strips, curb openings, special jointing and other accessories.

1.05 QUALITY ASSURANCE

A. Structural Testing/Inspection Agency shall perform the following quality related items:
1. Verify placement of deck for alignment and proper lap.
2. Verify welds for size and pattern.

1.06 DELIVERY, STORAGE AND HANDLING

A. Protect steel deck from corrosion, deformation and other damage during delivery, storage and handling. Store materials off ground to permit easy access for inspection and identification. Store steel members and packaged items in a manner that provides protection against contact with deleterious materials. Protect with a waterproof covering and ventilate to avoid condensation.

1.07 DEFINITIONS

A. Dovetail Deck — Roof deck panels shall have a continuous dovetail shaped ribs spaced 8 inches on center and formed with the following nominal dimensions: 3-1/2 inches in depth, ¾ inch rib opening at the bottom, 3-inch rib width at top.

PART 2 PRODUCTS

2.01 GENERAL

A. Provide metal deck sheets of three spans minimum wherever possible.

B. AISI Specifications Comply with calculated structural characteristics of steel deck according to AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members."

C. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

D. Dovetail roof deck (acoustic and non-acoustic) shall meet the requirements of Factory Mutual Research Corporation for use in Class I insulated steel deck roof construction.

2.02 DECK ATTACHMENT

A. Use E-60 series electrodes conforming to AWS A5.5.

B. Provide weld washers for material thinner than 22 gauge.

2.03 ROOF DECK

A. Metal roof deck formed from steel sheets shall conform to ASTM A653 structural quality (SQ). Provide roof deck types, minimum grades and gauges as indicated on Drawings.

B. Before forming, the steel sheets shall receive a hot-dip protective coating of zinc conforming to ASTM A924 with the following minimum coating class, as defined in ASTM A653:
1. Aggressive Environment G90
2. All other locations G60
   Provide accessories, clips, and other items as required.

C. Roof deck that will be painted in the field (coordinate with Design Professional), shall comply with these additional requirements:
1. Before fabrication of the panel, all surfaces of the galvanized sheet steel shall be processed through a continuous coil coating line, designed to degrease and clean the metal, followed by a chemical conversion coating to etch the surface for proper bond characteristics. The roof deck shall then be coated with a 0.2 mil epoxy primer, oven baked and recoated with a 0.5 mil polyester primer and rebaked. This coil coated prime finish shall be applied to both sides of the material.
2. For deck within aggressive environments, after fabrication or assembly of the panel, the exposed surface and the inside periphery of the perforations shall receive the factory applied epoxy primer. The primer shall be oven cured to enhance adhesion and durability characteristics.
3. Compatibility of all field applied finish paint with the factory applied primer shall be the responsibility of the painting contractor.

D. Provide roof deck units with flush, nested 2-inch end laps and nested side laps, unless otherwise indicated or specified. Provide deck configurations complying with SDI "Basic Design Specifications".

2.04 CANT STRIPS

A. When required by Design Professional fabricate cant strips of 20 gauge sheet steel. Bend to form a 45-degree cant not less than 5 inches wide with top and bottom flanges not less than 2 inches wide, unless otherwise shown.

2.05 GALVANIZING REPAIR PAINT

A. ASTM A780 — SSPC Paint 20 or MIL-P-21035B, with dry film containing a minimum of 94 percent zinc dust by weight.

2.06 REPAIR PAINT

A. Manufacturer's standard rust-inhibitive primer of same color as primer. Coordinate with Architect.

PART 3 EXECUTION

3.01 GENERAL

A. Load conditions shall be in accordance with Steel Deck Institute sequential loading formulas.

B. Installer must examine the areas and conditions under which metal decking is to be installed and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

C. Locate deck bundles to prevent overloading of supporting members.

3.02 PLACEMENT

A. Place steel deck units on supporting steel framework and adjust to final position before permanently fastening. Install deck units and accessories in accordance with manufacturer's recommendations and the Drawings, and as specified herein.

3.03 CUTTING

A. Cut holes in deck indicated by the Drawings. Other holes required shall be supplied by those requiring them. Obtain written authorization for additional holes and cutting not indicated on erection drawings.

3.04 WELDING

A. Perform welding in accordance with AWS Structural Welding Code.

B. Provide weld washers for deck thinner than 22 gauge.

3.05 CONCENTRATED LOADS

A. Do not hang concentrated loads exceeding 50 pounds from the deck. Only one such load is allowed per span of the deck. Must be spaced minimum 4'-0" from next concentrated load.

3.06 DECK SUPPORTS

A. Fasten deck to steel framework at ends and at each intermediate support by welding according to manufacturer's specifications unless indicated otherwise on structural drawings or otherwise specified herein. Do not weld deck in place until all bolted and welded connections for the structural frame are complete. A minimum of one floor over the area to be decked is to be bolted and welded prior to welding deck in place.

3.07 ROOF DECK

A. Place roof deck in straight alignment. Lap ends of sheets two inches.

B. Attach side laps of roof deck with as shown on the Drawings. Fasteners for side laps and overlying roofing material in dovetail deck shall be concealed within the depth of the dovetail shaped ribs. Within aggressive environments, fasteners shall be stainless steel.

C. Fasten roof deck in place as shown on the Drawings.

3.08 REPAIR

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint according to ASTM A780 and manufacturer's written instructions. Puddle welds to be painted only if deck is exposed in final condition.

B. Repair Painting:
1. Wire brush and clean rust spots, welds, and abraded areas on surface of prime-painted deck immediately after installation and apply repair paint. Coordinate with manufacturer's specifications.
2. Apply repair paint, of same color as adjacent shop-primed deck, to bottom surfaces of deck exposed to view.

3.09 FIELD QUALITY CONTROL

A. Testing Agency: Owner shall engage a qualified testing agency to perform tests and inspections.

B. Field welds will be subject to inspection.

C. Prepare test and inspection reports.

END OF SECTION

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. 36803134 ARCHITECT ANDREW C JEFFRIES

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

SPECIFICATIONS

SHEET NUMBER

S-005

6/25/2026 11:00:48 AM

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: GRADY EMS TRAINING PAVILION
LOCATION: 235 ESTORIA ST SE, ATLANTA, GA 30316
PERMIT APPLICANT:
APPLICANT'S ADDRESS:
ARCHITECT OF RECORD: BILL LEGGETT, CDH ARCHITECTURE
STRUCTURAL ENGINEER OF RECORD: HOLLY JEFFREYS, PE, SE, SHEAR STRUCTURAL
MECHANICAL ENGINEER OF RECORD:
ELECTRICAL ENGINEER OF RECORD:
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: BILL LEGGETT, CDH ARCHITECTURE

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2024 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Requirements for Seismic Resistance* and/or *Requirements for Wind Resistance*.

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*? No

Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*? No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

__Weekly __X__Bi-Weekly __Monthly Other; specify:_____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

HOLLY JEFFREYS
Type or print name

Signature SEE TITLEBLOCK
Date

Building Official's Acceptance:

Signature Date
Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:_____

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: B

Statement of Special Inspection for Seismic Resistance Required (Yes/No): No

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.13.1, 1705.13.2, and 1705.13.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

N.A.; SEISMIC DESIGN CATEGORY = B AND R=1.25

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, *Ip*, greater than one and are in Seismic Design Categories C, D, E or F.)

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.13.5, 1705.13.6, 1705.13.7, 1705.13.8, and 1705.13.9.)

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.14)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

Special Inspections for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Allowable Stress Design Wind Speed, V_{asd}: 81 m.p.h.

Wind Exposure Category: C

Statement of Special Inspection for Wind Resistance Required (Yes/No): No
(Required in wind exposure Category B, where the basic wind speed, V, is 150 miles per hour or greater. Required in wind exposure Category C or D, where the basic wind speed, V, is 140 miles per hour or greater.)

Description of structural wood and cold-formed steel light frame construction main windforce-resisting system subject to special inspections for wind resistance:
(Required for systems noted in IBC Section 1705.12.1 and 1705.12.2).

N/A

Description of windforce-resisting components subject to special inspections for wind resistance:
(Required for systems and components noted in IBC Section 1705.12.3)

N/A

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certifications& Lab Reports
1705.1 Special Cases			
Work of unusual or special nature		A, B, O	
1705.2, 1705.11, 1705.13 & 1705.14 Steel Construction			
Verification of welding consumables, filler metals, procedure specifications, procedure qualification records and personnel performance qualification records			C, F
Nondestructive testing of welding	G	G	
Inspection of welding	C, F	C, F	
Verification of fabricator and erector documents as listed in AISC 360, chapter N, paragraph 3.2			A, C
Material verification of weld filler materials			C, F
Inspection of high strength bolting and steel frame joint details, and metal building systems		A, C	
Inspection of embedment		A, C, F	
Inspection of steel elements of composite construction		A, C, F	
Verification of reinforcing steel, cold formed steel deck and truss materials			A, C, F
Inspection of reinforcing steel, cold formed steel deck and trusses		A, C	
1705.3 Concrete Construction			
Reinforcing placement, cast-in-place bolts, post installed anchors concrete and shotcrete placement and curing operations. Inspection of formwork for shape, location, and dimensions.		A, C, H	
Pre-stressing steel installation		A, C, D, E	
Erection of pre-cast concrete members		A, C, H	
Concrete field sampling and field testing		J	
Concrete strength testing		P	
Review certified mill reports			A, C
Verify use of required design mix		A, I, J, H, C	
Pre-stressed (pre-tensioned) concrete force application	A, C, E		
Post-tensioned concrete force application		A, C, D	
Review of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		A, C, D, H	
Reinforcing steel weldability, reinforcing welding, weld filler material		C, F	
Testing of welding of reinforcing steel		G	
1705.4 Masonry			
Verification of f'm and f'AAC		A, C, L, M	
Mortar joint construction, grout protection and placement, materials proportion, type/size/location of reinforcement, structural elements, anchorage, and connectors		A, C, K	
Sampling/testing of grout/mortar specimens		A, C, L, M	
Observe preparation of masonry prisms for testing of compressive strength of masonry, f'_m and f'_{AAC}		A, C, K, L, M	
Inspection of welding of reinforcing steel		C, F	
Testing of welding of reinforcing steel		G	
1705.6 & 1804 Soils			
Observe site preparation, fill placement testing of compaction for compliance with the construction documents for the project		A, C, I, N	
Observe test bearing materials below shallow foundations for ability to achieve design bearing capacity		A, C, I, N (Level III)	
Review compaction testing for compliance with the construction documents for the project			A
1705.5, 1705.11, 1705.12 & 1705.13 Wood Construction			
Observe structural panel sheathing, size of framing members, nail or staple diameter and length, number of fastener lines, and spacing of fastener lines and fasteners for compliance with construction documents for the project		A	
Observe temporary and permanent truss member restraint/bracing, field gluing of elements. Observe bolting, anchoring or other fastening of: shear walls, diaphragms, drag struts, braces and hold-downs		A	
1705.7, 1705.8, 1705.9 & 1810 Pile and Pier Foundations			
Observe installation		A, N	
Observe load tests		A	
1705.11 Inspection of Fabricators			
Pre-cast concrete	A, C, E		
Structural steel construction	C, F, G		
Wood construction	A		
Cold formed metal construction	A		
1705.12, 1705.13, Seismic and Wind Resistance			
Periodic inspection of fabrication, installation, and/or anchorage of building systems and components		A	
1705.15 Sprayed Fire-Resistant Materials			
Observe surface conditions, application, average thickness and density of applied material, and cohesive/adhesive bond		A, C	
1705.16 Intumescent Fire-Resistant Coatings			
Observe application compliance with AWCI 12-B		A, C	
1705.17 Exterior Insulation and Finish Systems			
Inspect EIFS systems		A, B, C, O	
1705.18 Fire-Resistant Penetrations and Joints	*See Requirements of IBC Sections 1705.18.1 and 1705.18.2*		
1705.19 Smoke Control	*See Requirements of IBC Section 1705.19.2*		
1705.20 Sealing of Mass Concrete	A, C		

KEY:
A. Georgia Professional Engineer (GA PE) competent in the specific task area or graduate of accredited engineering/engineering technology program under the direct supervision of a GA PE.
B. Georgia Registered Architect (GA RA) or graduate of accredited architecture/architecture technology program under the direction of a GA RA.
C. International Code Council (ICC) Special Inspector Certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
D. Post-tensioning Institute (PTI) Certification, Level 2, bonded or unbonded as applicable.
E. Pre-stressed Concrete Institute (PCI) Certified Inspector.
F. American Welding Society (AWS) Certified Welding Inspector (CWI) or AWS Certified Associate Welding Inspector working under the direct on-site supervision of a CWI.
G. American Society for Nondestructive Testing (ASNT) Level II certification, or a Level III certification if previously certified as a Level II in the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
H. American Concrete Institute (ACI) Concrete Construction Special Inspector.
I. National Institute for Certification in Engineering Technologies (NICET) Level II or higher certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
J. ACI Concrete Field Testing Technician with Grade 1 certification.
K. Georgia Concrete and Products Association (GC&PA) – Masonry Association of Georgia (MAG) Masonry Construction Inspector Certification.
L. American Concrete Institute (ACI) Masonry Field Testing Technician
M. GC&PA – MAG Masonry Testing Technician certification.
N. NICET Certified Engineering Technologist (CT).
O. Other Qualified Special Inspector as approved by the Building Official.
P. American Concrete Institute (ACI) Strength Testing Technician.

Notes:
1. The Special Inspector shall meet one of the minimum qualifications listed for the applicable Category of Testing and Inspection.
2. Materials testing shall be done by an Approved Testing Agency meeting the requirements of IBC Section 1703 and ASTM E 329.

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
SPECIAL INSPECTIONS

SHEET NUMBER
S-006

6/25/2026 11:20:48 AM

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT | **GRADY EMS TRAINING PAVILION**

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.)	Submittal review, shop (3) and/or field inspection	N			
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection	N	Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N	Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic		
3. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints: see Commentary		N			
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	N	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	Observe or Perform as noted (4)		
b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		Y	Observe (4)		
1) Pre-tensioned and slip-critical joints		N			
a) Turn-of-nut with matching markings		N	Periodic		
b) Direct tension indicator		N	Periodic		
c) Twist-off type tension control bolt		N	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		N	Continuous		
2) Snug-tight joints		Y	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		Y	Perform (4)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) or field inspection	N	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic		
1705.2.2 Structural Stainless Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 370, Section N 3.2 for compliance with construction documents)	Submittal Review	N	Each submittal		
2. Material verification of structural stainless steel	Shop (3) and field inspection	N	Periodic		
3. Structural stainless steel welding:		N			
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 370, Table N5.4-1)	Shop (3) and field inspection	N	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 370, Table N5.4-2)	Shop (3) and field inspection	N	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 370, Table N5.4-3)	Shop (3) and field inspection	N	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints:		N			
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) of field ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) of field ultrasonic testing - 10% of welds minimum	N	Periodic		
3) Welded joints subject to fatigue when required by AISC 370, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		

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4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)		
4. Structural stainless steel bolting:	Shop (3) and field inspection	N			
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 370, Table N5.6-1)		N	Observe or Perform as noted (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 370, Table N5.6-2)		N	Observe (4)		
1) Pre-tensioned and slip-critical joints		N			
a) Turn-of-nut with matching markings		N	Periodic		
b) Direct tension indicator		N	Periodic		
c) Twist-off type tension control bolt		N	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		N	Continuous		
2) Snug-tight joints		N	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 370, Table N5.6-3)		N	Perform (4)		
5. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	N	Periodic		
6. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	N	Periodic		
1705.2.3 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section B, Paragraphs B1 and B2 for compliance with construction documents)	Submittal Review	Y	Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials.	Shop (3) and field inspection	Y	Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)		Y	Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)		Y	Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)		Y	Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)		Y	Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)		Y	Perform (4)		
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection	Y			
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)		Y	Observe (4)		
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)		Y	Observe (4)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)		Y	Perform (4)		
1705.2.4. Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders.		Y			
a. End connections - welding or bolted.	per SJI CJ or SJI 100	Y	Periodic		
b. Bridging - horizontal or diagonal.		Y			
1) Standard bridging.	per SJI CJ or SJI 100	Y	Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.		N	Periodic		
1705.2.5. Cold-Formed Steel Trusses Spanning 60 feet or Greater					
Verify temporary and permanent restrain/bracing are installed in accordance with the approved truss submittal package	Field inspection	N			
1705.2.6. Metal Building Systems					
Inspections as listed above in 1705.2.1, 1705.2.3, 1705.2.4 and 1705.2.5.					
1. Installation of rafter/beam flange braces and column flange braces.	Field inspection	N	Periodic		
2. Installation of purlins and girts, including specified lapping.		N	Periodic		
3. Purlin and girt restraint/bridging/bracing.		N	Periodic		
4. Installation of X-bracing, tightened to remove any sag.		N	Periodic		
1705.3 Concrete Construction					
1. Inspection and placement verification of reinforcing steel and prestressing tendons.	Shop (3) and field inspection	Y	Periodic		
2. Reinforcing bar welding:					
a. Verification of weldability of bars other than ASTM A706.	Shop (3) and field inspection	N	Periodic		
b. Inspect welding of reinforcement for special moment frames, boundary elements of special structural walls and coupling beams.	Shop (3) and field inspection	N	Continuous		
c.Inspect welded reinforcement splices.	Shop (3) and field inspection	N	Continuous		
d. Inspect welding of primary tension reinforcement in corbels.	Shop (3) and field inspection	N	Continuous		
e. Inspection of single-pass fillet welds 5/16 or less in size.	Shop (3) and field inspection	N	Periodic		
f. Inspection of all other welds.	Shop (3) and field inspection	N	Continuous		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	Y	Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		

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a. Adhesive anchors installed in horizontally or upwardly-inclined orientation that resist sustained tension loads.		N	Continuous		
b. Mechanical and adhesive anchors not defined in 4a.		Y	Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic		
6.a. Prior to placement, fresh concrete temperature, penalty slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	Y	Continuous		
6.b. Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory curing environment, and that the maximum and minimum temperatures during the initial curing period are reported.	Shop (3) and field inspection	Y	Continuous		
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous		
8. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic		
9. Inspection of prestressed concrete:	Shop (3) and field inspection	N			
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons		N	Continuous		
10. Inspect erection of precast concrete members	Field inspection	N	Periodic		
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:	Field inspection	N			
a. Installation of the embedded parts.		N	Continuous		
b. Completion of the continuity of reinforcement across joints.		N	Continuous		
c. Completion of connections in the field.		N	Continuous		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Field inspection	N	Periodic		
13. Verify in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
14. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic		
15. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review	N	Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of f'm and f'AAC except where specifically required by the code	Testing by unit strength method or prism test method	N	Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method	N	Periodic		
(C) Level 3 Quality Assurance:					
1. During construction, verification of f'm and f'AAC for every 5,000 SF	Testing by unit strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection	N	Periodic		
MINIMUM SPECIAL INSPECTION REQUIREMENTS					
(D) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in					
a. Proportions of the site-prepared mortar	Field inspection	N	Periodic		
b. Grade and size of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field inspection	N	Periodic		
d. Prestressing technique	Field inspection	N	Periodic		
e. Properties of thin-bed mortar for AAC masonry	Field inspection	N	Level 2 - Continuous (b)		
(b) Required for the first 5,000 square feet		N	Level 2 - Periodic (c)		
(c) Required after the first 5,000 square feet		N	Level 3 - Continuous		
f. Sample panel construction	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	Field inspection	N	Periodic		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	N	Periodic		
b. Placement of masonry units and mortar joint construction	Field inspection	N	Periodic		
c. Size and location of structural members	Field inspection	N	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
e. Welding of reinforcement	Field inspection	N	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection	N	Periodic		

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g. Application and measurement of prestressing force	Field testing	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field inspection	N	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints	Field inspection	N	Level 2 - Continuous (b)		
(b) Required for the first 5,000 square feet		N	Level 2 - Periodic (c)		
(c) Required after the first 5,000 square feet		N	Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms trusses:	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
1705.4.1 Glass Unit Masonry and Masonry Veneer in Risk Category IV.					
Inspect and test in accordance with TMS 602 Level 2	Field inspection	N	Periodic		
1705.5 Wood Construction					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans.	Field inspection	N	Periodic		
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood		N			
a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection	N	Periodic		
b. For trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.5.3 Mass Timber Construction (Types IV-A, IV-B, and IV-C Construction)					
1. Inspection of anchorage and connection of mass timber construction to timber deep foundation systems.	Field inspection	N	Periodic		
2. Inspect erection of mass timber onstruction.	Field inspection	N	Periodic		
3. Inspection of connections where installation methods are required to meet design loads.		N			
a. Threaded Fasteners					
1) Verify use of proper installation equipment.	Field inspection	N	Periodic		
2) Verify use of pre-drilled holes where required.	Field inspection	N	Periodic		
3) Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.	Field inspection	N	Periodic		
b. Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads.	Field inspection	N	Continuous		
c. Adhesive anchors not defined in preceding cell.	Field inspection	N	Periodic		
d. Bolted connections.	Field inspection	N	Periodic		
e. Concealed connections	Field inspection	N	Periodic		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic		
2. Verify excavations are extended to proper depth and have reached proper	Field inspection	Y	Periodic		
3. Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic		
4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	Field inspection	Y	Continuous		
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic		
1705.7 Driven Deep Foundations					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load tests, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform tests and additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
1705.8 Cast-in-Place Deep Foundations					
1.Inspect drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
1705.9 Helical Pile Foundations					
Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation data as required by construction documents.	Field inspection	N	Continuous		

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1705.11 Fabricated items					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection	N	As noted in each applicable shop activity		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):		N			
Aluminum Canopy	Shop inspection not required where fabricator is approved per IAS	N	As noted in each applicable shop activity		
1705.12.1 Structural Wood Special Inspections For Wind Resistance					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.12.2 Cold-formed Steel Special Inspections For Wind Resistance					
1.Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2.Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	N	Periodic		
1705.12.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	N	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	N	Periodic		
1705.13.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISC 341		
1705.13.2 Structural Wood Special Inspections for Seismic Resistance					
1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection	N	Continuous		
2. Nailing, bolting, anchoring and other fastening of elements of the seismic-force-resisting system including wood shear walls, wood diaphragms, drag struts, braces shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.13.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.13.4 Designated Seismic Systems Verification					
For SDC C, D, E or F, inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.2.	Field inspection	N	Periodic		
1705.13.5 Architectural Components Special Inspections for Seismic Resistance					
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection	N	Periodic		
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection	N	Periodic		
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.	Field inspection	N	Periodic		
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	N	Periodic		
1705.13.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection	N	Periodic		
2. Inspection during the anchorage of other electrical equipment in SDC E or F	Field inspection	N	Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F.	Field inspection	N	Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials SDC C, D, E or F	Field inspection	N	Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection	N	Periodic		
6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:		N			
a. ASCE/SEI 7, Section 13.2.3 minimum required clearances have been provided.	Field inspection	N	Periodic		
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and: structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping.	Field inspection	N	Periodic		
1705.13.7 Storage Racks Special Inspections for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC D, E or F.	Field inspection	N			
1. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Field inspection	N	Periodic		

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GRADY HEALTH SYSTEM
GRADY EMS TRAINING PAVILION
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER SECONDARY STRUCTURAL HOLLY C. JEFFREY

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
SPEICAL INSPECTIONS

SHEET NUMBER
S-007

6/25/2026 11:00:48 AM

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2. Fabricated storage rack elements.	Field inspection	N	Periodic		
3. Storage rack anchorage installation.	Field inspection	N	Periodic		
4. Completed storage rack system, to indicate compliance with the approved construction documents.	Field inspection	N	Periodic		
1705.13.8 Seismic Isolation Systems					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system in structures assigned to SDC B, C, D, E or F.	Shop and field inspection	N	Periodic		
1705.13.9 Cold-formed Steel Special Bolted Moment Frames					
Inspection of installation of cold-formed steel special bolted moment frames in the seismic force-resisting systems in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.14.1 Structural Steel Testing for Seismic Resistance					
1. Nondestructive testing of structural steel in the seismic force-resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
2. Nondestructive testing of structural steel elements in the seismic force-resisting systems not covered in item 1 above including struts, collectors, chords and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
1705.14.2 Seismic Certification of Nonstructural Components					
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.14.3 Seismic Certification of Designated Seismic Systems					
Review certificate of compliance for designated seismic system, subject to the requirements of ASCE 7, Section 13.2.4, as noted on the construction documents, in structures assigned to SDC C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.14.4 Seismic Isolation Systems					
Test seismic isolation system in accordance with ASCE 7 Section 17.8 in structures assigned to SDC B, C, D, E or F.	Prototype testing	N	Per ASCE 7		
1705.15 Sprayed Fire-resistive Materials					
Special inspection shall be performed during construction with an additional visual inspection after the rough installation of electrical, sprinklers, mechanical and plumbing systems and suspension systems for ceilings, and before concealment where applicable.		N			
1. Verify surface condition preparation of structural members	Field inspection	N	Periodic		
2. Verify the substrate's minimum ambient temperature before and after application and note the ventilation of the area during and after application as required by the approved manufacturers' written instructions.	Field inspection	N	Periodic		
3. Verify minimum thickness of sprayed fire-resistant materials applied to structural members	Field inspection	N	Periodic		
3. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and testing	N	Per IBC Section 1705.15.5		
4. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing	N	Per IBC Section 1705.15.6		
6. Condition of finished application	Field inspection	N	Periodic		
1705.16 Intumescent Fire-Resistive Coatings					
Special inspection shall be performed during construction with an additional visual inspection after the rough installation of electrical, sprinklers, mechanical and plumbing systems and suspension systems for ceilings, and before concealment where applicable.		N			
Inspect and test intumescent fire-resistive materials applied to structural elements and decks per AWCI 12-B	Field inspection	N	Periodic		
1705.17 Exterior Insulation and Finish Systems (EIFS)					
Inspection of water-resistive barrier over sheathing substrate	Field inspection	N	Periodic		
1705.18 Fire-Resistant Penetrations and Joints					
1. Inspect penetration firestop	Field testing	N	Per ASTM E2174		
2. Inspect fire-resistant joint systems	Field testing	N	Per ASTM E2393		
1705.19 Smoke Control Systems					
1. Leakage testing and recording of device locations prior to concealment	Field testing	N	Periodic		
2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control verification	Field testing	N	Periodic		
1705.20 Sealing of Mass Timber Construction					
1. Inspect sealants and adhesives to resist passage of air in buildings of Type IV-A, IV-B, and IV-C.	Field testing	N			
a. At abutting edges and intersections of mass timber building elements required to be fire-resistance rated	Field testing	N	Periodic		
b. At abutting intersections of mass timber building elements and building elements of other materials where both are required to be fire-resistance rated	Field testing	N	Periodic		

*** INSPECTION AGENTS**

FIRM	ADDRESS	TELEPHONE NO.
1. **UNITED CONSULTING**	**625 HOLCOMB BRIDGE RD, NORCROSS, GA**	**(770) 209-0029**
2. **GEOHYDRO ENGINEERS**	**1000 COBB PL BLVD #290, KENNESAW, GA**	**(770) 426-7100**
3. **TERRACON**	**2105 NEWPOINT PL #600, LAWRENCEVILLE, GA**	**(770) 623-0755**
4.		

Notes:

1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.
2. The list of Special Inspectors may be submitted as a separate document, if noted so above.
3. Special Insepctions as required by Section 1704.2.5.1 are not required where the fabricator is approved in accordance with IBC Section 1705.11.2.
4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.
5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.
6. After-The-Fact Inspections: Any area(s) that have been covered without proper inspections shall be immediately brought to the attention of the Design Professional of Record (DPOR) and the Building Official. After-the-fact special inspections, if approved, shall be performed as directed by the DPOR to ensure adequate inspections are performed to meet the design intent.

Requirements for Seismic Resistance included in the Statement of Special Inspections? No

Requirements for Wind Resistance included in the Statement of Special Inspections? No

DATE: SEE TITLEBLOCK

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. 56000134 PROFESSIONAL ENGINEER HOLLY C JEFFRIES

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

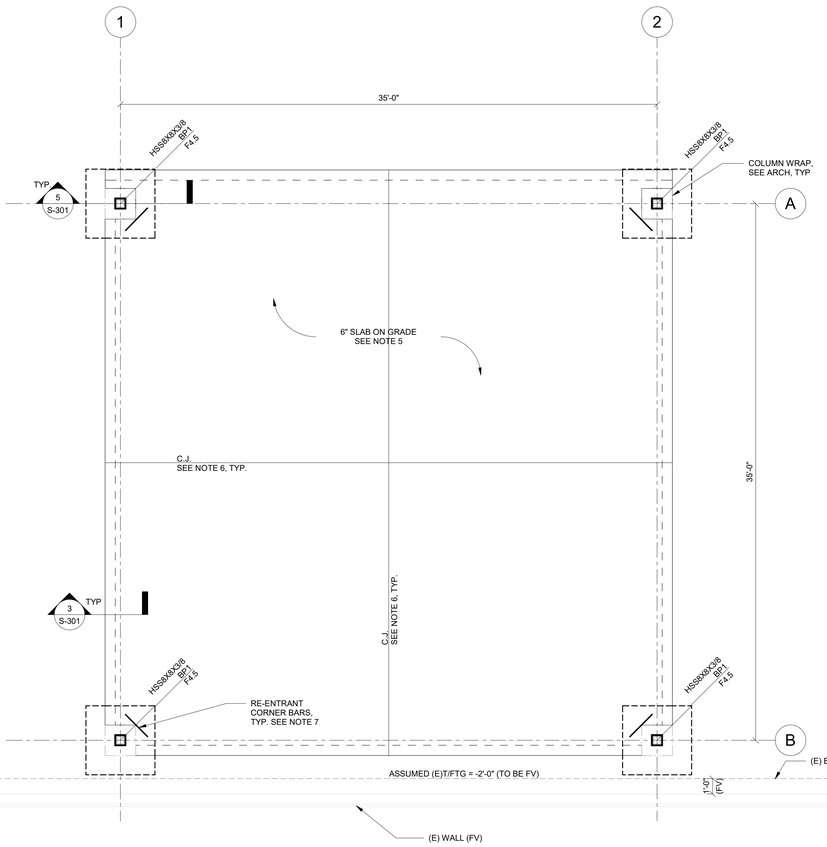
SHEET TITLE

SPECIAL INSPECTIONS

SHEET NUMBER

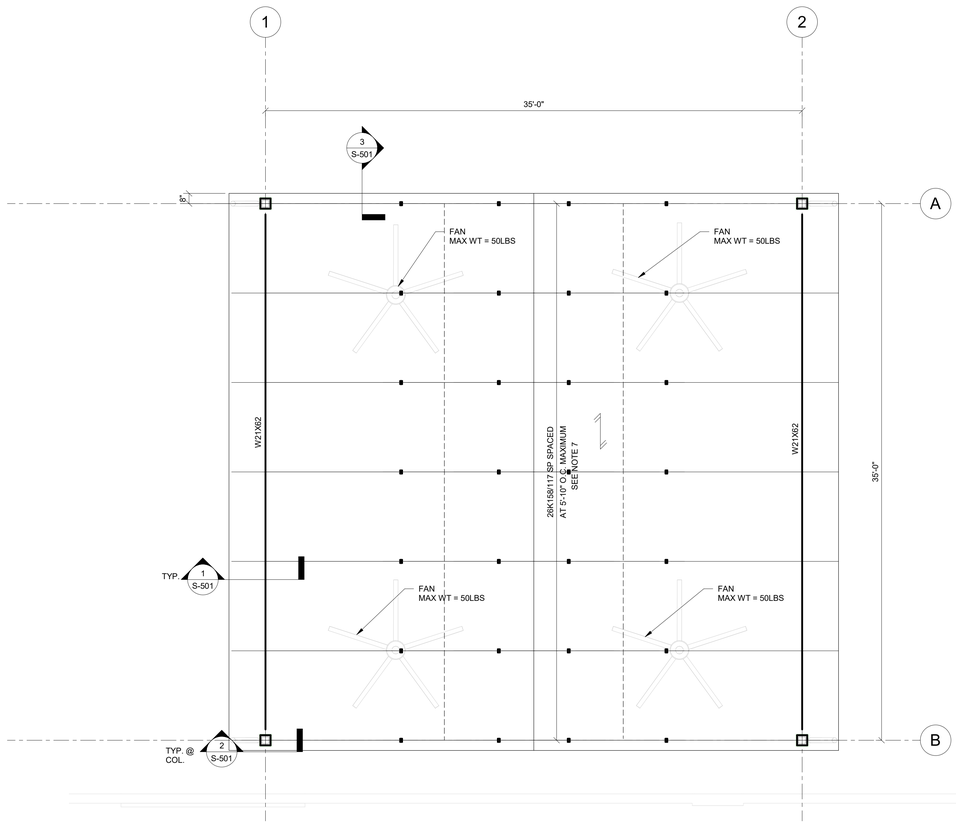
S-008

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1 S-101 PAVILION FOUNDATION PLAN
1/4" = 1'-0"

NOTES:
1. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. Fx INDICATES COLUMN FOOTING. SEE 1/S-301 . T/FTG = -2'-0" UNO, BASED ON T/SLAB REFERENCE ELEVATION = 0'-0"
4. BPx INDICATES COLUMN BASE PLATE. SEE 6/S-301 .
5. PROVIDE 6" SLAB ON GRADE REINFORCED WITH #4@16 O.C. EACH WAY AND 4" GRANULAR BASE
6. C.J. INDICATES SLAB CONTROL JOINT. SEE 4/S-301 AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
7. PROVIDE REINFORCEMENT AT RE-ENTRANT CORNERS, SEE 2/S-301 .
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY AND PLUMBING LINES. SEE 13/S-301.
9. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND TO NOTIFY ENGINEER OF ANY DISCREPANCIES.



2 S-101 PAVILION ROOF FRAMING PLAN
1/4" = 1'-0"

NOTES:
1. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. JOIST BEARING ELEVATION @ 14'-7" RELATIVE TO FIRST FLOOR REFERENCE ELEVATION = 0'-0" UNO.
4. ⟿ INDICATES DIRECTIONAL SPAN OF 1 1/2" 20 GA ROOF DECK, SEE 4/S-501.
5. EXTEND AND ATTACH BOTTOM CHORD OF JOIST AT EACH COLUMN TO COLUMN W/ LZXZX1/4 @ "JSP1" - SERIES JOISTS.
6. - - - - INDICATES CONT. HORIZ. BRIDGING. BRIDGING SHALL BE DETAILED BY JOIST SUPPLIER.
7. FOR JOIST ELEVATION, SEE DETAIL 15/S-501 .
8. SEE 5/S-501 FOR JOIST REINFORCEMENT AT CONCENTRATED LOADS.

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01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. 56908114 STRUCTURAL ENGINEER

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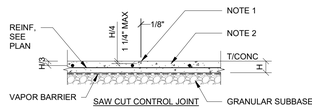
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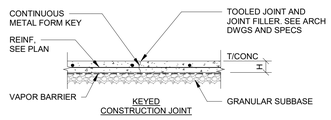
PAVILION FOUNDATION & ROOF FRAMING PLAN

SHEET NUMBER

S-101

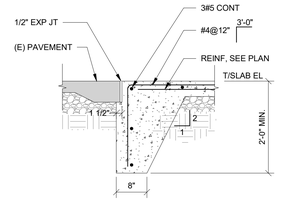
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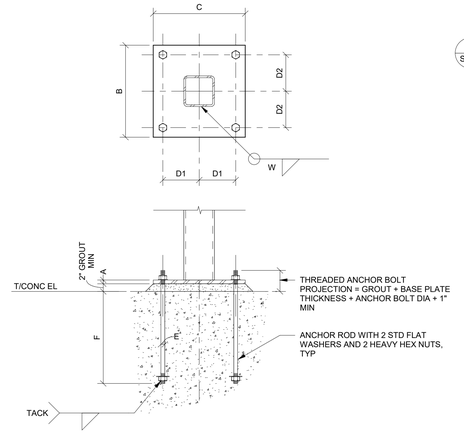


NOTE:
1. SAW CUT SHALL BE MADE SOON ENOUGH TO PREVENT CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. FOR JOINT FILLER, SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FOR JOINT SPACING, SEE STRUCTURAL SPECIFICATIONS.
2. SAW CUT OR DISCONTINUE REINF AT CONSTRUCTION JT.
3. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING.
4. WHERE REQUIRED FOR SUCCESSFUL INSTALLATION OF FLOOR FINISH SLAB SHALL BE WET CURED AND BE PLACED A MINIMUM OF 90 DAYS PRIOR TO INSTALLATION OF FLOOR FINISHES. AT CONTRACTOR'S OPTION DIAMOND DOWELS MAY BE USED IN LIEU OF CONTINUOUS CONCRETE KEY AT KEYED JOINT.
5. PROVIDE SLAB BOLSTERS A MAX 2'-0" APART FOR REINF SUPPORT

4 S-301 TYPICAL GRADE SUPPORTED SLAB AT JOINTS
3/4" = 1'-0"

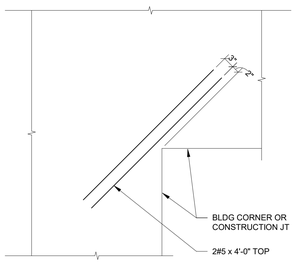


BASE PLATE AND ANCHOR BOLT SCHEDULE									
MARK	BASE PLATE					ANCHOR BOLTS			WELD
	A	B	C	D1	D2	E	F	NO	W
BP1	3/4"	14"	14"	5.5"	5.5"	3/4"	9"	4	3/16"

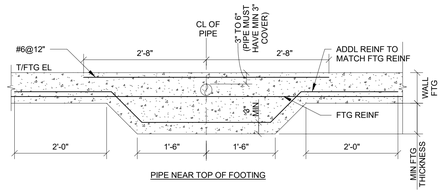


6 S-301 TYPICAL BASE PLATE AND ANCHOR BOLT (TUBE)
3/4" = 1'-0"

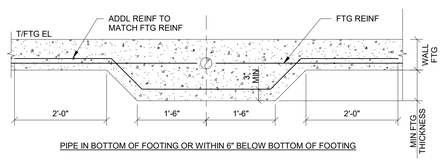
3 S-301 TYPICAL TURNDOWN SLAB
3/4" = 1'-0"



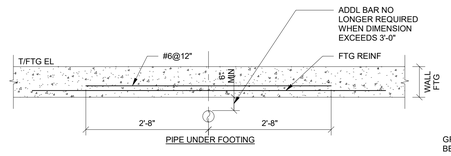
2 S-301 TYPICAL REINFORCEMENT AT SLAB RE-ENTRANT CORNER
3/4" = 1'-0"



PIPE NEAR TOP OF FOOTING



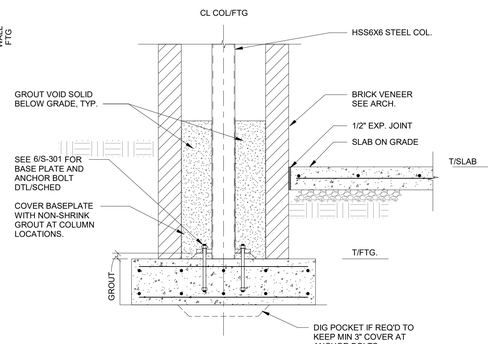
PIPE IN BOTTOM OF FOOTING OR WITHIN 6" BELOW BOTTOM OF FOOTING



PIPE UNDER FOOTING

NOTES:
1. NO PIPES TO PASS IN OR BENEATH COLUMN FOOTINGS.
2. PIPES SHALL NOT EXCEED 1/3 THE FOOTING THICKNESS AFTER IT HAS BEEN INCREASED.
3. VERIFY PIPE PENETRATION LOCATIONS W/ PLUMBING CONTRACTOR.

13 S-301 TYPICAL THICKENED FOOTING AT UNDERGROUND PIPING
3/4" = 1'-0"



5 S-301 TYPICAL COLUMN AND FOOTING DETAIL
3/4" = 1'-0"

FOOTING SCHEDULE			
MARK	SIZE (WxLxT)	REINF	REMARKS
F4.5	4'-6"x4'-6"x12"	6#4 EW	TOP & BOTTOM

1 S-301 FOOTING SCHEDULE
3/4" = 1'-0"

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GRADY HEALTH SYSTEM

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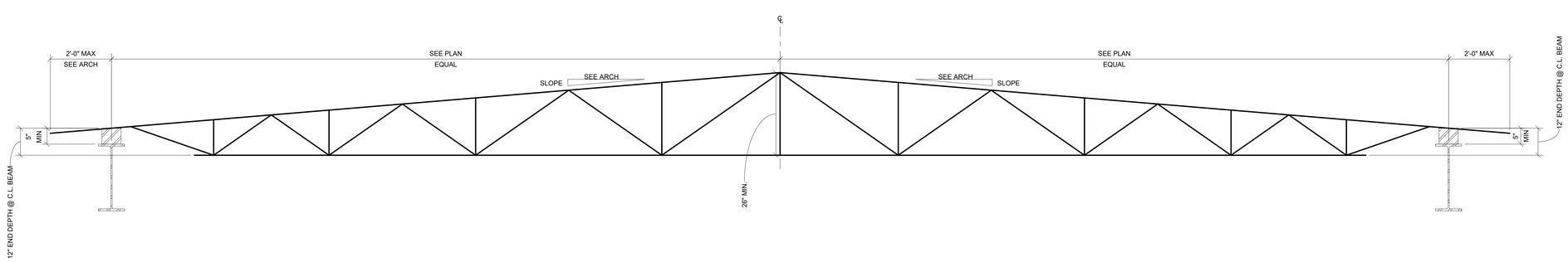
GEORGIA REGISTERED No. 3600114 STRUCTURAL ENGINEER HOLLY C JETTE

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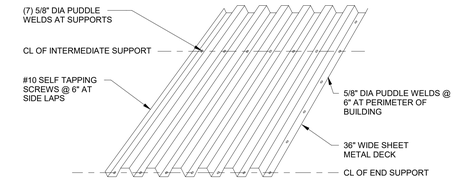
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FOUNDATION DETAILS

SHEET NUMBER
S-301

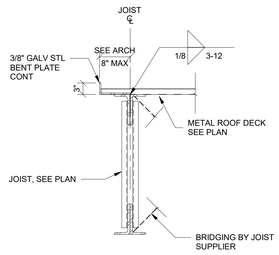
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15 S-501 JSP1- JOIST ELEVATION
3/4" = 1'-0"



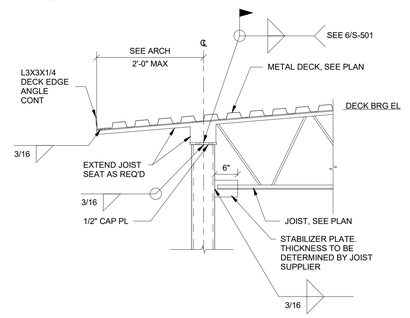
4 S-501 TYPICAL ROOF DECK ATTACHMENT (36" WIDE SHEET)
3/4" = 1'-0"



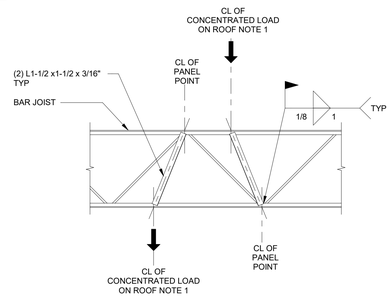
TYPICAL JOIST TO SUPPORT MINIMUM WELD SCHEDULE			
JOIST SECTION	MINIMUM FILLET WELD AT EACH SIDE OF JOIST SEAT		REMARKS
	SIZE	LENGTH	
26K158/117 SP	1/8"	2 1/2"	TO BE CONFIRMED BY JOIST MFR

NOTES:
1. JOIST SECTION IS THE LAST DIGIT(S) OF JOIST DESIGNATION.
2. WELDS ARE SJI MINIMUM. JOIST DESIGNER TO CONFIRM WELDS ARE ADEQUATE FOR UPLIFT LOADS.

3 S-501 SECTION AT ROOF PARALLEL TO JOIST
3/4" = 1'-0"

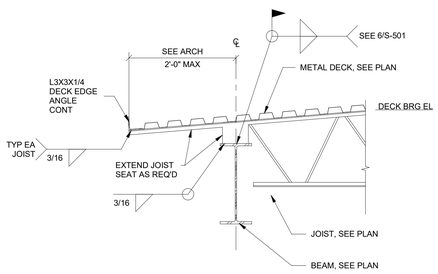


6 S-501 TYPICAL JOIST TO SUPPORT MINIMUM WELD SCHEDULE
12" = 1'-0"



NOTES:
1. CONCENTRATED LOAD GREATER THAN 100 LBS BUT NOT TO EXCEED 300 LBS. MAX OF 2 LOADS TOTAL PER JOIST.
2. ANGLES ARE NOT REQUIRED WHERE CONCENTRATED LOAD IS WITHIN 6" OF PANEL POINT.

2 S-501 TYPICAL JOIST TO END COLUMN CONNECTION
3/4" = 1'-0"



5 S-501 TYPICAL JOIST REINFORCEMENT (CONCENTRATED LOAD)
3/4" = 1'-0"

1 S-501 TYPICAL JOIST TO BEAM CONNECTION
3/4" = 1'-0"

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ISSUED FOR CONSTRUCTION

SHEET TITLE

STEEL FRAMING DETAILS

SHEET NUMBER

S-501

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PLUMBING PIPE ACCESSORIES & VALVES

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

BPT	BALANCING VALVE
	BACKFLOW PREVENTER
	BRANCH CONNECTION, BOTTOM
	BRANCH CONNECTION, TOP
	CHECK VALVE
	CONNECT TO EXISTING
	DIRECTION OF FLOW
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN
	FLOOR OR GRADE REGULATOR
	FLOOR OR ROOF DRAIN
	FLOOR SINK
	GAS PRESSURE REGULATOR
	HOT WATER CIRCULATION PUMP
	PIPING CAP
	PIPE CLEANOUT
	PIPE BREAK/CONTINUATION
	PIPE FLANGE
	PRESSURE REDUCING VALVE
	SHUT-OFF VALVE
	SOLENOID VALVE
	STRAINER
	TEMPERATURE & PRESSURE RELIEVE VALVE (T&P)
	TRAPPED CONNECTION
	TRENCH DRAIN
	UNION
WHA	WATER HAMMER ARRESTOR (WHA)
WH	WALL HYDRANT (WH) OR HOSE BIBB (HB)
WCO	WALL CLEANOUT (WCO)

PLUMBING PIPE SYMBOLS

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

CD	CONDENSATE DRAIN PIPING
	DOMESTIC COLD WATER PIPING (CW)
	DOMESTIC HOT WATER PIPING (HW)
	DOMESTIC HOT WATER CIRCULATION PIPING (HWC)
D	DRAIN PIPING
GWW	GRAY WATER WASTE PIPING
GW	GREASE WASTE PIPING
	HEAT TRACED PIPING
NG	NATURAL GAS PIPING
NP	NON-POTABLE WATER PIPING
OW	OIL WASTE PIPING
PD	PUMP DISCHARGE PIPING
SAN	SANITARY DRAIN PIPING ABOVE FLOOR SLAB
SSD	SUBSOIL DRAINAGE PIPING
SAN	STORM DRAIN PIPING BELOW THE FLOOR SLAB
ST	STORM OVERFLOW DRAIN PIPING
V	SANITARY VENT PIPING
SAN	SANITARY DRAIN PIPING BELOW THE FLOOR SLAB

ABBREVIATIONS

ABV.	ABOVE
BEL.	BELOW
BFP	BACKFLOW PREVENTER
CB	CATCH BASIN
CLG.	CEILING
CW	COLD WATER
DSB	DOWNSPOUT BOOT
DSC	DOWNSPOUT COVER
ERW	EMERGENCY RAINWATER (SECONDARY)
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GA.	GAUGE
GALV.	GALVANIZED
GCO	EXTERIOR GRADE CLEANOUT
GH	GROUND HYDRANT
HB	HOSE BIBB
HD	HUB DRAIN
HW	HOT WATER
HWC	HOT WATER CIRCULATING
I.E.	INVERT ELEVATION
IMB	ICE MAKER VALVE BOX
LI	LINT INTERCEPTOR
MAX.	MAXIMUM
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.C.	ON CENTER
OS	OIL/SAND INTERCEPTOR
OW	OIL WASTE
PD	PARKING DECK DRAIN
PRV	PRESSURE REDUCING VALVE
RHB	ROOF HYDRANT
RW	RAINWATER (PRIMARY)
S	SANITARY
SG	SAND/GRIT INTERCEPTOR
SW	SAMPLE WELL
TD	TRENCH DRAIN
TP	TRAP PRIMER
TW	TEMPERED WATER
TYP.	TYPICAL
V	VENT
VA	VALVE
W	WASTE
WB	WASHER BOX
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WHE	WATER HEATER - ELECTRIC
WHG	WATER HEATER - GAS
WHT	WATER HEATER - TANKLESS ELECTRIC

COORDINATION SPECIFIC NOTES

1. COMPLETELY COORDINATE AND COOPERATE WITH THE WORK OF THIS DIVISION WITH OTHER TRADES SO THAT ALL SYSTEMS IN THE SCOPE OF THE CONTRACT MAY BE INSTALLED IN THE BEST ARRANGEMENT AND PROVIDE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. COORDINATE AND COOPERATE AS REQUIRED WITH ALL OTHER TRADES WHICH SHARE SPACE IN COMMON AREAS AND MAXIMIZE THE ACCESS TO EACH SYSTEM AND THEIR RESPECTIVE APPURTENANCES.
2. BEFORE BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE DRAWINGS FULLY COORDINATED WITH ELECTRICAL EQUIPMENT AND CONDUITS LARGER THAN 2 INCHES, HVAC DUCTWORK AND PIPING, FIRE PROJECTION EQUIPMENT AND PIPING, ARCHITECTURAL AND STRUCTURAL ELEMENTS, ETC. EACH OF THE TRADES SHALL CERTIFY CONSTRUCTIBILITY OF THEIR WORK SHOWN IN THE COORDINATED DRAWINGS BEFORE SUBMITTING THE DRAWINGS.

COMMON DRAWING REFERENCES

NOT ALL SYMBOLS ARE USED FOR THIS PROJECT

XX / #	XX: RISER SERVICE DESIGNATION #: RISER NUMBER DESIGNATION
X / X-#	X: DETAIL DESIGNATION X-#: DETAIL DESIGNATION DRAWING
	DETAIL DESIGNATION SHEET ON WHICH DETAIL OR SECTION APPEARS
#	KEY NOTE
#	DEMOLITION KEY NOTE
	CONNECT NEW TO EXISTING
	LIMIT OF DEMOLITION
	MATCHLINE
	REVISION TAG

PHASING LINE TYPE LEGEND

	EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
	NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)

PLUMBING DEMOLITION GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REPAIR THE EXISTING SURFACES TO REMAIN WHERE THEIR WORK HAS BEEN COMPLETED. REPAIR SHALL INCLUDE, BUT NOT LIMITED TO, ANY EXISTING WALL, CEILING, OR FLOOR THAT IS SCHEDULED TO REMAIN. REPAIR, PAINTING, AND PATCHING SHALL BE COMPLETED BY AN APPROPRIATE CONTRACTOR QUALIFIED FOR THIS TYPE OF WORK.
2. THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF FIXTURES, EQUIPMENT, AND MATERIALS REMOVED, HOWEVER, ALL FIXTURES, EQUIPMENT, AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF BY THE DEMOLITION CONTRACTOR.
3. CEILING REMOVAL, STORAGE, AND REPLACEMENT FOR NEW PIPING INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR.
4. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, THE CONTRACTOR WILL NOTIFY THE BUILDING OWNER OF THE HAZARDOUS MATERIAL.
5. TEMPORARY CONNECTION SHALL BE PROVIDED BY PLUMBING CONTRACTOR WHEN EXTENDED INTERRUPTIONS OF SERVICES AND UTILITIES SUCH AS WATER AND WASTE, WHICH SERVE OTHER AREAS ARE NECESSARY.
6. COORDINATE WITH MAINTENANCE PERSONNEL AS TO THE SOURCE OF UTILITIES AND TEMPORARILY DISCONNECT OR SHUT OFF SERVICES OR UTILITIES AT NEAREST MAIN. TEMPORARY AND ACCESSIBLE ISOLATION VALVES SHALL BE INSTALLED CLOSE TO THIS POINT OF WORK.
7. IT IS ESSENTIAL THAT BUILDING OPERATIONS CONTINUE WITH MINIMAL INTERRUPTIONS. OPERATION OF EXISTING SYSTEMS MUST BE INTERFACED WITH AS LITTLE DISRUPTION AS POSSIBLE EXCEPT IN AREAS VACATED FOR CONSTRUCTION WORK. WORK WHICH WILL INTERFERE WITH THE OPERATION OF EXISTING PLUMBING SYSTEMS, OR WHICH REQUIRE DOWNTIME WILL BE SCHEDULED ONLY AFTER CONSULTATION WITH AND PERMISSION GIVEN BY THE OWNER. ALLOW 10 DAYS BEFORE ANTICIPATED INTERRUPTION OF SYSTEMS. WORK MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORKING HOURS.
8. ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH THESE DRAWINGS.
9. ALL PIPING HANGERS AND SUPPORTS SHALL BE REMOVED ALONG WITH THE PIPING BEING REMOVED.
10. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THE PROJECT'S PHASING SCHEDULE BEFORE COMMENCEMENT OF ANY WORK.

PLUMBING NEW WORK GENERAL NOTES

1. DUE TO THE LIMITED SPACE AVAILABLE FOR THE INSTALLATION OF ALL THE PLUMBING WORK, COORDINATION BETWEEN ALL OTHER TRADES IS OF UTMOST IMPORTANCE.
2. THIS CONTRACTOR SHALL VISIT THE PROJECT SITE AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT THE SITE BEFORE PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR THE BEST POSSIBLE ROUTING OF PLUMBING PIPING.
3. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THE ONLY AVAILABLE INFORMATION HAS BEEN OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF PIPING, FIXTURES, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT JOB CONDITIONS. THIS CONTRACTOR SHALL FURNISH A COMPLETE CODE-COMPLYING SYSTEM. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
4. IF THIS CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THIS CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND/OR INTERPRETATION BEFORE SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
5. WHEN PLACING NEW PLUMBING FIXTURES, CONTRACTOR SHALL VERIFY LOCATIONS OF PLUMBING VENTS. OFFSET VENTS THAT TERMINATE WITHIN 10 FEET OF HVAC UNITS OUTDOOR AIR INTAKES. CONTRACTOR SHALL FIELD VERIFY BEFORE BID WHERE THE INTERFERENCE'S ARE PRICE ACCORDINGLY, OR MAKE ALLOWANCES IN BID.
6. USE CAUTION WHEN SAW-CUTTING THROUGH EXISTING CONCRETE FLOOR OR WALL CONSTRUCTION FOR THE INSTALLATION OF PLUMBING SYSTEMS TO AVOID CUTTING REBAR AT EDGE OF OPENING. LEAVE SUFFICIENT REBAR EXPOSED TO TIE NEW REINFORCING REPLACEMENT CONCRETE AND/OR OTHER STRUCTURAL ATTACHMENTS FOR NEW CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT, OR STRUCTURE NEW OR EXISTING AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
9. COORDINATE ALL CORING OF FLOORS AND WALLS WITH THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE START OF WORK.
10. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED BEFORE THE INSTALLATION OF WORK.
11. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED, INSTALLED, AND TESTED IN COMPLIANCE WITH THE CODES AND AMENDMENTS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER APPLICABLE TO THIS PROJECT.

A. STATE BUILDING CODES INCLUDING THE LATEST STATE ADOPTED CODE AMENDMENTS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ):
1. 2024 IPC
2. 2024 IBC
3. 2015 IECC

B. THE LATEST EDITIONS OF ANY OTHER APPLICABLE STANDARDS:
1. XXXX

SHEET INDEX - PLUMBING

NUMBER	NAME
P001	PLUMBING COVER SHEET
P002	PLUMBING SCHEDULES
P003	PLUMBING SPECIFICATIONS
P100	PLUMBING PLAN - LEVEL 100
P500	PLUMBING DETAILS

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PE#024745 PROFESSIONAL ENGINEER NATHANIEL D. HAMMOND

SHEET TITLE

PLUMBING COVER SHEET

SHEET NUMBER

P001

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PIPE MATERIAL SCHEDULE

SYSTEM	PIPE	FITTING	JOINT	NOTES
BURIED SANITARY DRAINAGE AND VENT, GREASE WASTE DRAINAGE AND VENT DRAIN STORM DRAINAGE	ASTM A74 SERVICE WEIGHT CAST IRON HUB AND SPIGOT	ASTM A74 SERVICE WEIGHT CAST IRON HUB AND SPIGOT	ASTM C 564 PREMOLDED NEOPRENE COMPRESSION GASKET	-
ABOVE-FLOOR SANITARY DRAINAGE AND VENT, GREASE WASTE DRAINAGE AND VENT AND STORM DRAINAGE	ASTM A74 SERVICE WEIGHT CAST IRON NO-HUB	ASTM.A74 SERVICE WEIGHT CAST IRON NO-HUB	ASTM C 1277 AND ASTM C 1540 HEAVY DUTY HUBLESS PIPING COULPINGS, STAINLESS STEEL SHIELD AND BANDS, ASTM C 564 RUBBER GASKET	ALL STORM DRAINAGE, SANITARY DRAINAGE, AND GREASE WASTE PIPING FOUR INCHES AND LARGER SHALL BE PROVIDED WITH PIPE RESTRAINTS AT ALL HORIZONTAL OFFSETS GREATER THAN 45 DEGREES. BASIS OF DESIGN: HOLDRITE #117 SERIES NO-HUB FITTING RESTRAINTS INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.
ABOVE-FLOOR COLD WATER, HOT WATER, HOT WATER CIRCULATION	ASTM B88 HARD COPPER WATER TUBE, DRAWN TEMPER, TYPE "L",	ASME B16.22 WROUGHT COPPER OR ASME B16.18 CAST COPPER SOLDER-JOINT PRESSURE FITTINGS.	ASTM B32 LEAD-FREE SOLDER WITH ASTM B813 WATER FLUSHABLE FLUX.	-
		ALTERNATE: IN AREAS THAT DO NOT EXCEED THE MANUFACTURER'S MAXIMUM PRESSURE RATING. ASME B16.18, ASME B16.22, ASME B16.51 COPPER ALLOY PRESS-CONNECT PRESSURE FITTINGS.	ALTERNATE: IN AREAS THAT DO NOT EXCEED THE MANUFACTURER'S MAXIMUM PRESSURE RATING. EPDM RUBBER O-RING SEAL IN EACH END.	VIEGA PROPPRESS FITTING SYSTEM. PIPE SIZES UP TO FOUR INCHES.

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

PLUMBING SPECIALTIES CONNECTION AND SPECIFICATION SCHEDULE

SPECIALTIES IDENTIFICATION	DESCRIPTION	TYPE	UTILITY SIZE			DESCRIPTION / BASIS OF DESIGN
			S/V	CW	HW	
NFWH-1	NON-FREEZE WALL HYDRANT	BOX WITH CONCEALED HOSE CONNECTION	-	3/4"	-	BRONZE NICKEL PLATED QUARTER TURN SELF DRAINING NON-FREEZE HYDRANT WITH HOSE CONNECTION, INTEGRAL VACUUM BREAKER, "T" HANDLE KEY, AND STAINLESS-STEEL BOX.

NOTES:
1. PROVIDE FIRE RATED ENCLOSURE FOR RECESSED BOXES WHERE REQUIRED.

PIPE INSULATION SCHEDULE

SYSTEM OR SERVICE	INSULATION TYPE	JACKET TYPE	VAPOR BARRIER REQUIRED	MINIMUM INSULATION THICKNESS - INCHES				
				NOMINAL PIPE SIZES - INCHES				
				3/4" AND SMALLER	1" TO 1-1/4"	1-1/2" TO 3"	4" TO 6"	8" AND LARGER
DOMESTIC COLD WATER	A	1	YES	1"	1"	1"	1"	1-1/2"

INSULATION TYPES:

A. ASTM C547 MINERAL FIBER (FIBERGLASS AND MINERAL WOOL). INSULATION SHALL BE JACKETED WITH WHITE REINFORCED ALL SERVICE VAPOR RETARDING JACKETING AS INDICATED.

B. OWENS CORNING, FOAMGLAS® CELLULAR GLASS INSULATION, AND FLEXIBLE PITTWRAP® JACKET. ACCESSORIES AND INSTALLATION SHALL CONFORM WITH THE MANUFACTURER'S INSTRUCTIONS.

JACKET TYPES:

1. FACTORY APPLIED. ALL SERVICE JACKET (ASJ)
2. ALL SERVICE JACKET (ASJ)
3. PVC JACKET

NOTES:

1. REFER TO SPECIFICATION PLUMBING INSULATION FOR ADDITIONAL REQUIREMENTS.
2. INSULATE PIPING USING INSULATION OF TYPE AND THICKNESS INDICATED.
3. INSTALL INSULATION NEATLY, ACCURATELY AND WITHOUT VOIDS, IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND NIAC NATIONAL COMMERCIAL AND INDUSTRIAL INSULATION STANDARDS.
4. INSULATING MATERIALS, ADHESIVES AND ACCESSORIES, INCLUDING PVC FITTING, VALVE AND FLANGE COVERS, SHALL HAVE A COMPOSITE FIRE AND SMOKE RATING, WHEN TESTED IN ACCORDANCE WITH ASTM E84, NFPA 255 OR UL 723 TEST PROCEDURES. NOT TO EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50, SUITABLE BY BUILDING CODE FOR INSTALLATION IN RETURN AIR PLENUMS.

DRAIN SCHEDULE

IDENTIFICATION	TYPE	BASIS OF DESIGN		OPTIONS AND ACCESSORIES	NOTES
		MANUFACTURER	MODEL		
HD-1	HUB DRAIN	J.R. SMITH	9654	-	1,2,3,4

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. BEFORE SETTING DRAINS, OBTAIN EXACT INFORMATION RELATIVE TO FINISH FLOOR LEVEL AT TOP OF DRAINS AND TYPE OF ROOF CONSTRUCTION FOR ROOF DRAIN INSTALLATION.
3. PROVIDE WATERLESS TRAP SEAL PROTECTION DEVICE.
4. PROVIDE DEEP SEAL P-TRAP.

WATER HAMMER ARRESTOR SCHEDULE

PDI WHA IDENTIFICATION	FIXTURE UNIT CAPACITY	PIPE CONNECTION SIZE
A	1 - 11	1/2"
B	12 - 32	3/4"
C	33 - 60	1"
D	61 - 113	1 1/4"
E	114 - 154	1 1/2"
F	155 - 330	2"

NOTES:
1. WATER HAMMER ARRESTORS SHALL BE THE PISTON TYPE. THE INSTALLATION SHALL BE IN COMPLIANCE WITH ASSE 1010 AND THE LATEST VERSION OF PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARD PDI-WH 201.
2. REFER TO THE WATER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. PE037450 PROFESSIONAL ENGINEER NATHANIEL D HAMMOND

SHEET TITLE
PLUMBING SCHEDULES

SHEET NUMBER
P002

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DIVISION 22 - PLUMBING

SECTION 220517
SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Pipe sleeves.

1.02 REFERENCE STANDARDS

PART 2 PRODUCTS

2.01 PIPE SLEEVES

A. Vertical Piping:
   1. Sleeve Length: 1 inch (25 mm) above finished floor.
   2. Provide sealant for watertight joint.

PART 3 EXECUTION

3.01 INSTALLATION

A. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.
B. Install piping to conserve building space, to not interfere with use of space and other work.
C. Install piping and pipe sleeves to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
D. Provide sleeves when penetrating footings, floors, walls, and partitions. Seal pipe including sleeve penetrations to achieve fire resistance equivalent to fire separation required.
E. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

END OF SECTION

SECTION 220523
GENERAL-DUTY VALVES FOR PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Ball valves.

1.02 REFERENCE STANDARDS

A. MSS SP-110 - Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends; 2010, with Errata .

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide data on valves including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Valve Pressure and Temperature Ratings: No less than rating indicated; as required for system pressures and temperatures.
B. Valve Sizes: Match upstream piping unless otherwise indicated.
C. Valve Actuator Types:
D. Valve-End Connections:
E. General ASME Compliance:

2.02 BRASS, BALL VALVES

A. One Piece, Full Port with Brass Trim and Push-to-fit or Threaded Connections:
   1. Comply with MSS SP-110.
   2. CWP Rating: 200 psi (1379 kPa).
   3. Body: Forged brass.
   4. Seats: PTFE.
   5. Stem: Brass.
   6. Ball: Chrome-plated brass.
   7. Operator: Handle.

PART 3 EXECUTION

3.01 INSTALLATION

A. Provide unions or flanges with valves to facilitate equipment removal and maintenance while maintaining system operation and full accessibility for servicing.
B. Provide separate valve support as required and locate valve with stem at or above center of piping, maintaining unimpeded stem movement.

END OF SECTION

SECTION 220529
HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Pipe hangers.

1.02 RELATED REQUIREMENTS

A. Section 055000 - Metal Fabrications.

1.03 REFERENCE STANDARDS

A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2024.
B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
D. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2025.
E. ASTM B633 - Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel; 2023.
F. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2025.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide manufacturer's standard catalog pages and data sheets for metal channel (strut) framing systems, nonpenetrating rooftop supports, post-installed concrete and masonry anchors, and thermal insulated pipe supports.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Provide required hardware to hang or support piping, equipment, or fixtures with related accessories as necessary to complete installation of plumbing work.
B. Provide hardware products listed, classified, and labeled as suitable for intended purpose.
C. Materials for Metal Fabricated Supports: Comply with Section 055000.
   1. Zinc-Plated Steel: Electroplated in accordance with ASTM B633 unless stated otherwise.
   2. Galvanized Steel: Hot-dip galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M unless stated otherwise.
D. Corrosion Resistance: Use corrosion-resistant metal-based materials fully compatible with exposed piping materials and suitable for the environment where installed.

2.02 PIPE HANGERS

A. Band Hangers, Adjustable:
   1. MSS SP-58 type 7 or 9, zinc-plated ASTM A1011/A1011M steel or ASTM A653/A653M carbon steel.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install products in accordance with manufacturer's instructions.
B. Provide independent support from building structure. Do not provide support from piping, ductwork, conduit, or other systems.
C. Unless specifically indicated or approved by Architect, do not provide support from suspended ceiling support system or ceiling grid.
D. Unless specifically indicated or approved by Architect, do not provide support from roof deck.
E. Do not penetrate or otherwise notch or cut structural members without approval of Structural Engineer.
F. Equipment Support and Attachment:
   1. Use metal fabricated supports or supports assembled from metal channel (strut) to support equipment as required.
   2. Use metal channel (strut) secured to studs to support equipment surface-mounted on hollow stud walls when wall strength is not sufficient to resist pull-out.
   3. Use metal channel (strut) to support surface-mounted equipment in wet or damp locations to provide space between equipment and mounting surface.
   4. Securely fasten floor-mounted equipment. Do not install equipment such that it relies on its own weight for support.
G. Secure fasteners according to manufacturer's recommended torque settings.
H. Remove temporary supports.

END OF SECTION

SECTION 220719
PLUMBING PIPING INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glass fiber insulation.

1.02 REFERENCE STANDARDS

A. ASTM C547 - Standard Specification for Mineral Fiber Pipe Insulation; 2025.
B. ASTM C795 - Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel; 2008 (Reapproved 2023).
C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.
D. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or UL 723.

2.02 GLASS FIBER INSULATION

A. Insulation: ASTM C547 and ASTM C795; rigid, preformed pipe insulation, noncombustible.
   1. K (Ksi) Value: 0.24 at 75 degrees F (0.035 at 24 degrees C).
   2. Maximum Service Temperature: 850 degrees F (454 degrees C).
   3. Maximum Moisture Absorption: 0.2 percent by volume.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

END OF SECTION

SECTION 221005
PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sanitary waste piping, buried within 5 feet (1500 mm) of building.
B. Sanitary waste piping, above grade.
C. Domestic water piping, above grade.

1.02 REFERENCE STANDARDS

A. ASTM A74 - Standard Specification for Cast Iron Soil Pipe and Fittings; 2026.
B. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2022.
C. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2020.
D. ASTM C564 - Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings; 2026.
E. NSF 61 - Drinking Water System Components - Health Effects; 2025, with Addendum
F. NSF 372 - Drinking Water System Components - Lead Content; 2024.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Potable Water Supply Systems: Provide piping, pipe fittings, solder, and flux (if used), complying with NSF 61 and NSF 372; label pipe and fittings.

2.02 SANITARY WASTE PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING

A. Cast Iron Pipe: ASTM A74 extra heavy weight.
   1. Fittings: Cast iron.
   2. Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum.

2.03 SANITARY WASTE PIPING, ABOVE GRADE

A. Cast Iron Pipe: ASTM A74, service weight.
   1. Fittings: Cast iron.
   2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

2.04 DOMESTIC WATER PIPING, ABOVE GRADE

A. Copper Pipe: ASTM B88 (ASTM B88M), Type L (Type B), drawn temper.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

END OF SECTION

SECTION 221119
DOMESTIC WATER PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hydrants.

1.02 REFERENCE STANDARDS

A. ASSE 1011 - Performance Requirements for Hose Connection Vacuum Breakers; 2023.
B. ASSE 1019 - Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance; 2023.
C. ASSE 1052 - Performance Requirements for Hose Connection Backflow Preventers; 2023.
D. ASSE 1053 - Performance Requirements for Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type; 2019 (Reaffirmed 2023).
E. NSF 61 - Drinking Water System Components - Health Effects; 2025, with Addendum
F. NSF 372 - Drinking Water System Components - Lead Content; 2024.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide manufacturer's literature and data sheets for each product. Include information on materials of fabrication, assembly of components, dimensions, ratings, finishes, rough-in requirements, and installed accessories.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Specialties in Potable Water Supply Systems: Provide products complying with NSF 61 and NSF 372.
B. Source Limitations: Furnish domestic water piping specialties of same kind by same manufacturer.
C. Provide brass-bodied domestic water piping specialties in DZR brass.

2.02 HYDRANTS

A. Wall Hydrants:
   1. Assembly: ASSE 1011, ASSE 1019, ASSE 1052, or ASSE 1053.
   2. Hydrant: Freeze-resistant, self-draining, wall-mounted.
      a. Valve: Bronze or brass body.
      b. Hose Connection: Threaded, with integral vacuum breaker or backflow preventer.
   3. Maximum Working Pressure: 125 psi (8.6 bar).
   4. Working Temperature Range: 33 to 120 degrees F (0.5 to 50 degrees C).

PART 3 EXECUTION

3.01 INSTALLATION

A. Prior to installation of domestic water piping specialties, flush domestic water piping of foreign material.
B. Install products in accordance with manufacturer's instructions.
C. Install products level and plumb.
D. Install products with clearance for access and maintenance.
E. Support products NPS 2-1/2 (DN 65) and larger independently of surrounding pipe.
F. Support products with flanged or grooved ends independently of surrounding pipe.
G. For products containing isolation or shutoff valves, locate valves in horizontal piping with stems at or above center of piping, maintaining unimpeded stem movement.

END OF SECTION

SECTION 221319
SANITARY WASTE PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Floor drains.
B. Cleanouts.

1.02 REFERENCE STANDARDS

A. ASME A112.6.3 - Floor Drains; 2022.
B. ASME A112.36.2 - Cleanouts; 2022.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide manufacturer's literature and data sheets for each product. Include information on fabrication materials, assembly of components, dimensions, ratings, finishes, rough-in requirements, and installed accessories.

PART 2 PRODUCTS

2.01 FLOOR DRAINS

A. Cast Iron Floor Drains:
   1. Assembly: ASME A112.6.3.
   2. Body: Lacquered cast iron with anchor flange and membrane clamping collar with weepholes.
   3. Strainer: Adjustable, removable, with vandal-proof screws.

2.02 CLEANOUTS

A. Floor Cleanouts:
   1. Assembly: ASME A112.36.2.
   2. Body: Lacquered cast iron.
   3. Closure Plug: PVC or ABS, threaded, gastight and watertight.
   4. Top: Adjustable, with vandal-proof screws.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install products in accordance with manufacturer's instructions.
B. Maintain continuity of waterproofing membranes. Secure waterproofing membranes to drain clamping collars and bonding flanges.
C. Install drains so strainers and grates are level and are at design elevation.
D. Extend cleanouts to finished floor or wall surface. Ensure clearance at cleanout for rodding or jetting of drainage system.
E. Install floor cleanouts to allow for floor finishes.
F. Locate, provide, and install cleanouts in piping in accordance with adopted code.

END OF SECTION

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GEORGIA REGISTERED PROFESSIONAL ENGINEER NATHANIEL HAMMOND PE 047450

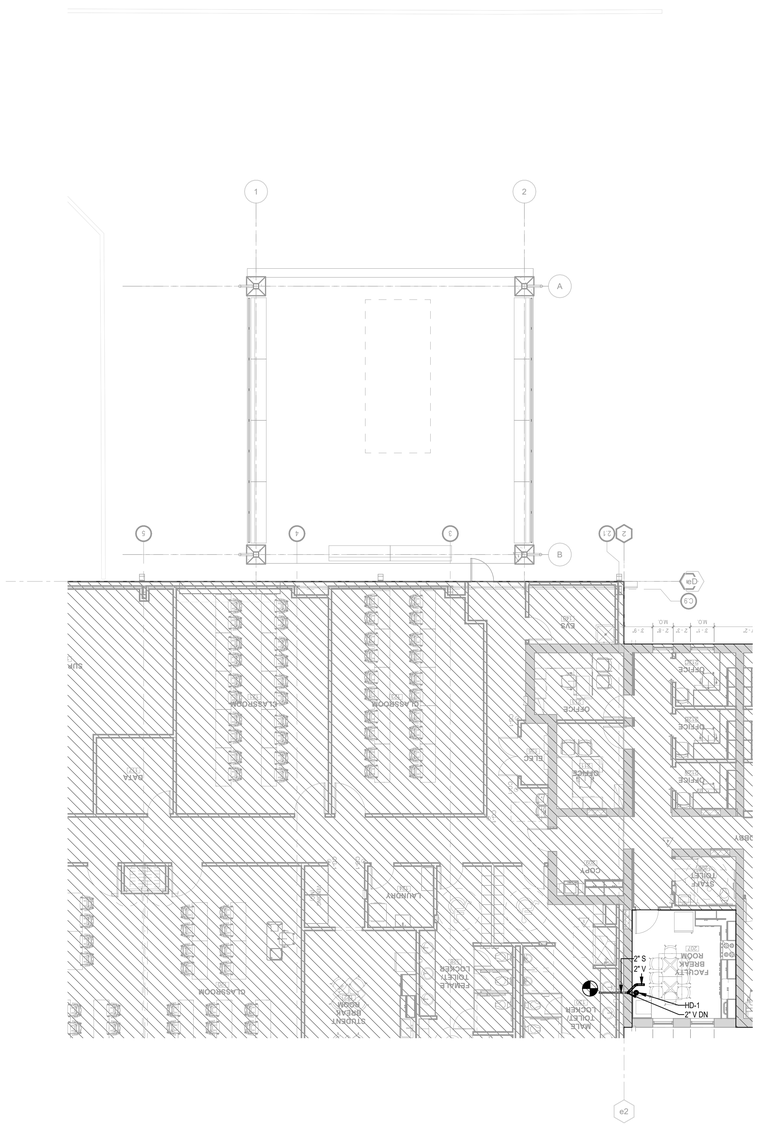
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PLUMBING SPECIFICATIONS

SHEET NUMBER

P003

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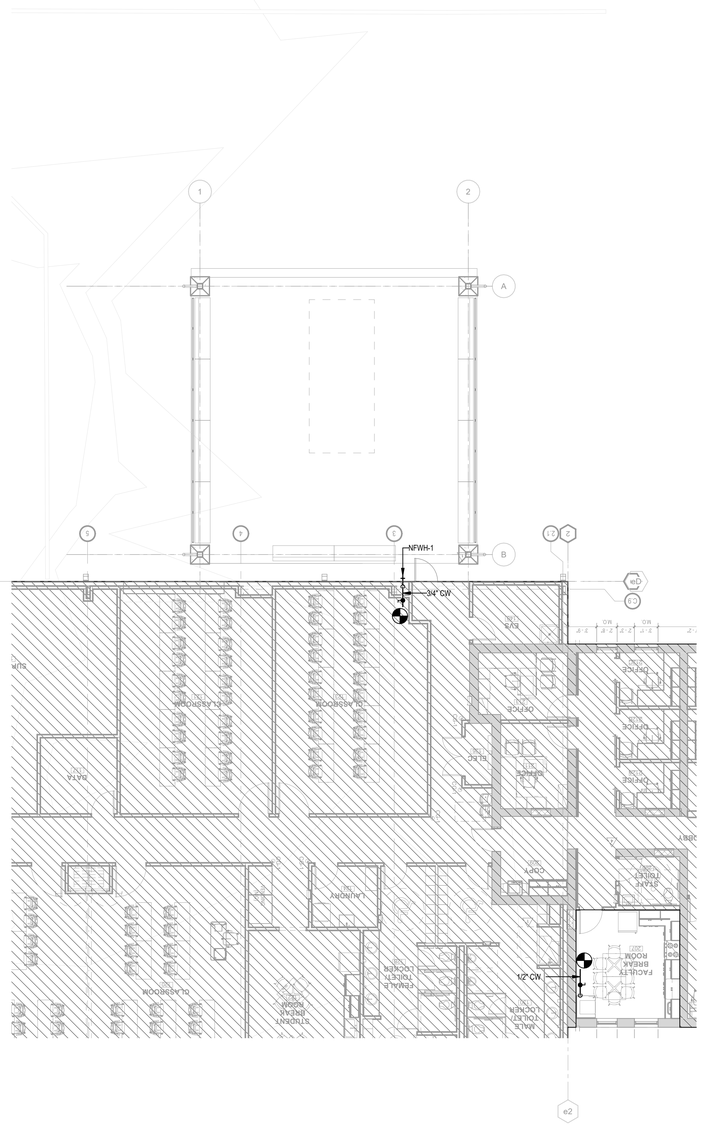


1 SANITARY - LEVEL 100

SCALE: 1/8" = 1'-0"

1/4" = 1'-0" 2 0 2 4 8

SCALE FEET



2 DOMESTIC - LEVEL 100

SCALE: 1/8" = 1'-0"

1/4" = 1'-0" 2 0 2 4 8

SCALE FEET

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GRADY HEALTH SYSTEM

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. PE034745O PROFESSIONAL ENGINEER NATHANIEL D HAMMOND

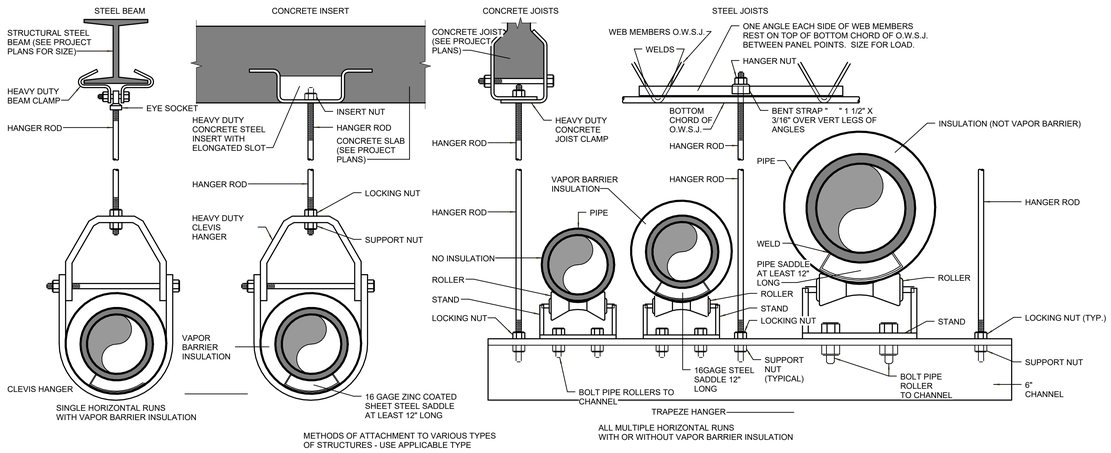
SHEET TITLE

PLUMBING PLAN - LEVEL 100

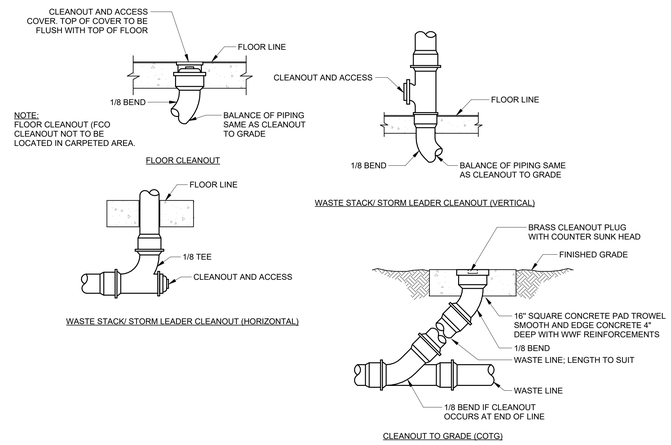
SHEET NUMBER

P100

7/2/2026 2:39:27 PM



1 PIPING SUPPORT DETAIL
SCALE: NO SCALE



2 CLEANOUT DETAILS
SCALE: NO SCALE

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GRADY EMS TRAINING PAVILION

GRADY HEALTH SYSTEM
235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED PE#PE037450 PROFESSIONAL ENGINEER NATHANIEL D HAMMOND

SHEET TITLE
PLUMBING DETAILS

SHEET NUMBER
P500

7/2/2026 2:39:28 PM

ELECTRICAL LEGENDS

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - WALL MOUNTED
	SINGLE RECEPTACLE - WALL MOUNTED
	SINGLE "GFCI" RECEPTACLE - WALL MOUNTED
	DUPLEX RECEPTACLE - CEILING MOUNTED
	DUPLEX RECEPTACLE - WALL MOUNTED - COUNTER HEIGHT
	SWITCHED OUTLET
USB	USB TYPE COMBO OUTLET - WALL MOUNTED
	QUAD RECEPTACLE - WALL MOUNTED
	DUPLEX "GFCI" RECEPTACLE - WALL MOUNTED
	DUPLEX "GCFI" RECEPTACLE - WALL MOUNTED - COUNTER HEIGHT
	DUPLEX "GCFI" RECEPTACLE - WALL MOUNTED
	SPECIAL OUTLET - WALL MOUNTED
	DUPLEX RECEPTACLE - IN FLUSH FLOOR BOX
J	JUNCTION BOX
J	JUNCTION BOX - WALL MOUNTED

TELE / DATA LEGENDS

SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE/DATA OUTLET
	WALL MOUNTED TELEPHONE OUTLET
	WALL MOUNTED DATA OUTLET
	WALL MOUNTED DATA OUTLET - 6" ABOVE COUNTER
	WALL MOUNTED VOICE/DATA OUTLET - 6" ABOVE COUNTER
	WALL MOUNTED TELEPHONE OUTLET - 6" ABOVE COUNTER
	FLOOR MOUNTED (FLUSH) VOICE/DATA OUTLET
TV	TV OUTLET WITH COAX CONNECTOR
S	SPEAKER
AP	WIRELESS ACCESS POINT
CB	SINGLE GANG BOX FOR CALL BOX
DH	MAGNETIC DOOR HOLDER (Fire)
	SECURITY CAMERA

CODE COMPLIANCE

THESE PLANS WERE PREPARED AND SHALL COMPLY WITH THE BUILDING

INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022), (2024)

INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION

INTERNATIONAL FIRE CODE, 2018 EDITION

NATIONAL ELECTRICAL CODE, 2020 EDITION, WITH GEORGIA AMENDMENTS (2021)

INTERNATIONAL SWIMMING POOL AND SPA CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020), (2022)

ABBREVIATIONS

ACT	ABOVE COUNTERTOP OR BACKSPLASH
AC	ALTERNATING CURRENT
AL	ALUMINUM
AMP	AMPERES
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BD	BOARD
BLDG	BUILDING
CAB	CABINET
CAP	CAPACITY
CATV	CABLE TELEVISION
CBB	CABLE TELEVISION BACKBOARD
CKT	CIRCUIT
CLG	CEILING
C/B	CIRCUIT BREAKER
C/L	CENTER LINE
COL	COLUMN
COND/C	CONDUIT
CONN	CONNECTION
CONT	CONTINUATION
C&P	CORD AND PLUG
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DET	DETAIL
DF/EDF	ELECTRICAL DRINKING FOUNTAIN
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRIC
EQ	EQUIPMENT
EX	EXISTING
FA	FIRE ALARM
FSD	FIRE SMOKE DAMPER
FACP	FIRE ALARM CONTROL PANEL
FIX	FIXTURE
FL	FLOOR
FU	FUSED
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
H.O.A.	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KAIC	KILO-AMPERE INTERRUPTING CAPACITY
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MISC	MISCELLANEOUS
MTR	MOTOR
MTD	MOUNTED
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
M.O.D.	MOTOR OPERATED DAMPER
MRS	MOTOR RATED SWITCH
NEC	NATIONAL ELECTRICAL CODE
NES	NASHVILLE ELECTRIC SERVICE
NF	NONFUSED
NL	NIGHT LIGHT
NO.	NUMBER
NTS	NOT TO SCALE
P.I.V.	POST INDICATOR VALVE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RTU	ROOF TOP UNIT
SH	SHEET
SW	SWITCH
TR	TRANSFORMER
TBB	TELEPHONE BACKBOARD
TELE	TELEPHONE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

SHEET INDEX - ELECTRICAL

NUMBER	NAME
E001	ELECTRICAL COVER SHEET
E101	ELECTRICAL PLAN - LEVEL 100
E601	ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM

ELECTRICAL GENERAL NOTES

1. ALL WORK THIS DIVISION SHALL COMPLY WITH ALL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF 2014 NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF HIS/HER WORK HE/SHE SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
3. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A MINIMUM ONE YEAR GUARANTEE STARTING AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT, OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCHWORK, REPAINTING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
4. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION AND THE MINIMUM WIRE SIZE SHALL BE #14 A.W.G. FOR 15A WHERE USED IN RESIDENTIAL/LIVING UNITS AND #12 A.W.G FOR 20A CIRCUITS UNLESS NOTED OTHERWISE, OR NOT ALLOWED BY LOCAL JURISDICTION HAVING AUTHORITY.
5. ALL WORK MUST BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
6. ALL PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300.21. ALSO SEE SHEET E0.2. FIRE STOPPING SHALL MATCH UL RATING OF WALL, FLOOR, OR CEILING PENETRATED.
7. ALL SWITCHES FOR FANS, LIGHTS, ETC. WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
8. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH EQUIPMENT.
9. ALL OUTLETS AND SWITCHES ARE TO BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
10. LABEL AND IDENTIFY ALL JUNCTION BOXES, WIREWAYS AND MAJOR SWITCHES AT THE TIME OF INSTALLATION. PROVIDE PERMANENT NAMEPLATES/LABELS AS SPECIFIED PRIOR TO FINAL INSPECTION.
11. VERIFY LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGH-IN.
12. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVEL) AS PER NEC ARTICLE 300.50.
13. MINIMUM HOMERUN CONDUIT SIZE SHALL BE:
    A. ABOVE GRADE: 3/4"
    B. BELOW GRADE: 3/4"
14. COMMON NEUTRAL MAY BE USED AS PERMITTED BY NEC FOR MULITWIRE BRANCH CIRCUITS. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICES, UNLESS OTHERWISE NOTED. SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL ARC FAULT CIRCUIT INTERRUPTER CIRCUITS.
15. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND WIRE, SIZED PER NEC TABLE 250.122 OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANEL BOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE, UNLESS OTHERWISE NOTED.
16. IN CASES WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATION, OR BETWEEN DIFFERENT TRADES. AS WELL AS CASES OF ANY OMISSION OF INFORMATION, NOTIFY THE ARCHITECT AND PROCURE RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION.
17. ALL 15A AND/OR 20A BRANCH RECEPTACLE CIRCUITS FOR 120V, CIRCUITS LONGER THAN 70'-0" SHALL BE MINIMUM #10 AWG, LONGER THAN 150' SHALL BE #8 AWG.
18. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK. DATA PRESENTED ON THE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITION IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN.
19. COORDINATE WITH OTHER TRADES SO THAT INSTALLATION OF ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CHECK CONDUIT, FIXTURE AND OTHER EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICT WITH THE PIPING DUCT WORK, STEEL PIPING, BEAM, OR OTHER OBSTRUCTIONS.
20. THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE TO THE ARCHITECT/ENGINEER THAT THERE HAS BEEN A FACE-TO-FACE MEETING WITH THE MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL SUBCONTRACTORS TO COORDINATE THEIR WORK. THIS MUST BE DONE PRIOR TO ORDERING ANY EQUIPMENT AND SHALL SERVE TO MATCH THE VOLTAGE, PHASE, AMPS, MCA, AND MOCP OF THE EQUIPMENT WITH THE DESIGNED ELECTRICAL CHARACTERISTICS. AFTER THIS MEETING HAS BEEN HELD THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE (IN WRITING) TO THE A/E THAT THIS HAS BEEN DONE AND THERE ARE NO DISCREPANCIES. FAILURE TO MEET DOES NOT ENTITLE CONTRACTOR TO A CHANGE ORDER FOR INCOMPATIBLE EQUIPMENT AND SERVICE CHARACTERISTICS.
21. PROVIDE UNSWITCHED HOT WIRE TO ALL EMERGENCY/EXIT LIGHTING.
22. PROVIDE SEALING OF ALL OUTLET BOXES PER LOCAL FIRE CODE.
23. COMBUSTIBLE MATERIALS ARE NOT ALLOWED WITHIN AREAS WHERE PLENUM AIR SYSTEMS ARE BEING USED.
24. THE CONTRACTOR SHALL PROVIDE AND INSTALL WIRING AND CIRCUIT ALL EQUIPMENT, MOTORS, AND OTHER ITEMS NOT EXPLICITLY SHOWN, BUT INDICATED, IN CONTRACT DOCUMENTS OR IN SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SAID ITEMS BETWEEN ALL TRADES.
25. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE ANY ELECTRICAL PANELBOARD, LOAD CENTER, MOTOR CONTROL CENTER, OR SWITCHBOARD. PER NEC ARTICLE 110.26 (a) (3).
26. THERE SHALL BE NO BACK TO BACK RECEPTACLE WITHIN FIRE RATED WALLS. PROVIDE MINIMUM HORIZONTAL SPACE BETWEEN OUTLETS AT OPPOSITE SIDES OF A FIRE RATED WALL.
27. GFCI RECEPTACLE WITH IN-USE WEATHERPROOF COVER PLATE. IN-USE WEATHERPROOF COVER PLATE SHALL BE: STEEL CITY "WTG100-CV-L" OR APPROVED EQUAL.
28. FIRE ALARM SYSTEM PROVIDED BY ELECTRICAL SUBCONTRACTOR PER NFPA 101, NFPA 72 AND IBC.
29. BELOW GRADE RACEWAY INSTALLATIONS - DIRECT BURIAL CONDUIT SHALL BE INSTALLED AT CODE REQUIRED BURIAL DEPTHS
30. RACEWAY INSTALLATIONS WITHIN CONCRETE - CONDUIT SHALL BE RUN FOLLOWING THE MOST DIRECT ROUTE BETWEEN POINTS. CONDUIT SHALL NOT BE INSTALLED WITHIN CONCRETE WHERE THE OUTSIDE DIAMETER IS LARGER THAN 1/3 OF THE SLAB THICKNESS.
31. IN BUILDINGS WITH MULTIPLE SERVICES, PROVIDE A PLAQUE AT EACH ELECTRICAL SERVICE DENOTING THE LOCATION OF ALL OTHER SERVICES WITHIN THE BUILDING.
32. TYPE NM CABLE IS NOT ALLOWED EXPOSED IN HVAC CLOSETS. PROVIDE TYPE MC CABLE OR ROUTE TYPE NM CABLE IN FLEXIBLE METALLIC CONDUIT SO THAT NM CABLE IS NOT EXPOSED IN CLOSET.
33. ALL EXTERIOR ENTRY DOORS SHALL BE EQUIPPED WITH ELECTRIC STRIKE PLATES AND EITHER CARD OR PROXIMITY READERS. COORDINATE LOCATION AND REQUIREMENTS WITH LOW VOLTAGE INSTALLER PRIOR TO BID.
34. PROVIDE OCCUPANCY SENSORS TO CONTROL LIGHTING IN ALL COMMON AREA RESTROOMS, OFFICES, STORAGE ROOMS, AMENITIES,ETC.
35. CONTRACTOR SHALL PROVIDE HOMERUN FROM SWITCH BOX PER NEC 404.2C.
36. CONDUIT FILL PER CODE
37. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LIGHTS, HVAC REGISTERS AND SPRINKLERS. IN ADDITION, THE CONTRACTOR SHALL VERIFY CEILING TYPES PRIOR TO ORDER FIXTURES.
38. ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING USING #12 GALVANIZED STEEL WIRES, TWO WIRES AT OPPOSITE CORNERS OF THE FIXTURES.
39. ALL ITEMS ON THE DRAWINGS SHALL BE NEW AND BEAR THE U.L. LABEL.
40. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE TRANSFORMER WITH THE LOCAL UTILITY COMPANY. FURTHER HE SHALL OBTAIN A DETAIL OF THE CONCRETE PAD FOR THE TRANSFORMER AND COORDINATE ANY METERING EQUIPMENT TO BE FURNISHED AND SHALL DO SO AT NO ADDITIONAL COST TO THE OWNER.
41. WHERE WALLS ARE FIRE OR SMOKE RATED THE CONTRACTOR SHALL DO HIS INSTALLATION TO PREVENT VIOLATING THE RATING OF THE WALL, THIS MEANS COMPLYING WITH ALL U.L. REGULATIONS.
42. FIRE WALLS SHALL HAVE PUTTY PADS ON METALLIC BOXES UNLESS BOXES ARE RATED FOR RATING OF THE WALL.
43. PROVIDE A GROUND BAR AT EACH TELEPHONE BACKBOARD AND/OR MDF (HUB/ROUTER ROOM) AND TERMINATE USING A TERMINAL STRIP THAT CONTAINS NO LESS THAN TEN (10) PLACES FOR ADDITIONAL WIRES. BOND TO MAIN GROUND (#6 AWG) AT ELEC. RM.
44. DO NOT SCALE DRAWINGS, LOCATION OF EQUIPMENT ARE APPROXIMATE, ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE PROPER WORKING CLEARANCE.
45. ALL CONDUCTORS FOR EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG (UNLESS OTHERWISE NOTED), EXCEPT THE CONDUCTORS FROM THE HANDHOLE UP THE POLE TO THE BALLAST MAY BE #12 AWG.
46. COORDINATE LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO BID. COORDINATION OF LOCATIONS AND QUANTITIES WILL OVERRIDE LOCATIONS AND QUANTITIES INDICATED ON ELECTRICAL DRAWINGS. PROVIDE A 120V UNSWITCHED CIRCUIT TO EACH FIRE / SMOKE DAMPER. PROVIDE A DUCT MOUNTED SMOKE DETECTOR FOR EACH FIRE / SMOKE DAMPER. CONNECT DUCT MOUNTED SMOKE DETECTOR AND FIRE / SMOKE DAMPER TO FIRE ALARM SYSTEM. A CHANGE ORDER WILL NOT BE ALLOWED FOR LACK OF COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL CONTRACTOR FOR LOCATION AND QUANTITY OF FIRE / SMOKE DAMPERS.
47. COORDINATE REQUIREMENTS FOR TELEPHONE AND CABLE TELEVISION SERVICES WITH UTILITY PROVIDER PRIOR TO BID. UTILITY COMPANY REQUIREMENTS SHALL OVERRIDE REQUIREMENTS INDICATED HEREIN.
48. EXCEPT IN DWELLING UNITS, ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PROVIDED BY THE SERVICE EQUIPMENT MANUFACTURER. LABEL SHALL INCLUDE THE DATE OF CALCULATIONS. RECALCULATE AND RELABEL AS NECESSARY IN RENOVATIONS. (NEC 110.24)
49. ALL DIMENSIONS INDICATED ON DRAWINGS ARE TO CENTERLINE OF DEVICE UNO.

1. PROVIDE A TYPE WRITTEN DIRECTORY FOR ALL PANELS AND LOAD CENTERS. CORRECTLY LABEL ALL CIRCUITS, SPARES, AND SPACES.
2. REFER TO ARCHITECTURAL/INTERIOR DESIGNER DRAWINGS FOR EXACT SPECIFICATION, LOCATION AND QUANTITY OF ELECTRICAL DEVICES AND LIGHT FIXTURES.
3. SEE E6.01 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
4. NAME PLATES FOR DISCONNECT SWITCHES SHALL BE PRINTED LABELS.
5. THE CONTRACTOR SHALL MEASURE THE GROUND RESISTANCE, USING THE "FALL OF POTENTIAL METHOD" AND SUBMIT THE RESULTS TO THE A/E VIA EMAIL USING "WORD" SOFTWARE. IF THERE IS DIFFICULTY ACHIEVING 5 OHMS OR LESS THE CONTRACTOR SHALL CONTINUE TO DRIVE GROUND RODS OR ADD A NON TOXIC ENVIRONMENTALLY FRIENDLY MAGNESIUM SULFATE TO ACHIEVE THE 5 OHMS OR LESS TO GROUND. THE GROUNDING IINFORMATION SHOULD BE SIGNED BY A TECHNICIAN. THE TYPE OF INSTRUMENT USE TO PERFORM THE TEST SHALL BE INCLUDED IN THE REPORT. THE TEST SHALL NOT BE DONE IF THERE HAD BEEN RAINFALL IN THE PREVIOUS 24 HOUR PERIOD. THIS SHALL BE DONE AT THE BEGINNING OF THE CONSTRUCTION PROCESS AND NOT AT THE END. ALL GROUNDS SHALL BE INTERCONNECTED AT THE MAIN GROUNDING ELECTRODE USING A ERICO MODEL TG8-A16L08PT MOUNTED ADJACENT TO THE MAIN SERVICE EQUIPMENT OR MAIN SWITCH.
6. SEE FAIR HOUSING NOTES ON UNIT PLAN DRAWINGS FOR ADDITIONAL INFORMATION ON DEVICE MOUNTING HEIGHTS. IN "HC" UNITS, DIMENSIONS SHALL BE TO TOP OF ROUGH-IN BOX.

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	BASIS OF DESIGN
	CEILING FAN	

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GRADY EMS TRAINING PAVILION

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GEORGIA REGISTERED PE#034750 PROFESSIONAL ENGINEER NATHANIEL D. HAMMOND

SHEET TITLE

ELECTRICAL COVER SHEET

SHEET NUMBER

E001

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DIVISION 26 - ELECTRICAL
SECTION 260533.13
CONDUIT FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Galvanized steel electrical metallic tubing (EMT).
B. Stainless steel electrical metallic tubing (EMT).
C. Rigid polyvinyl chloride (PVC) conduit.

1.02 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Coordinate minimum sizes of conduits with actual type and quantity of conductors to be installed, including adjustments for conductor sizes increased for voltage drop.
2. Coordinate arrangement of conduits with structural members, ductwork, piping, equipment, and other potential conflicts.
3. Verify exact conduit termination locations required for boxes, enclosures, and equipment.
4. Coordinate work to provide roof penetrations that preserve integrity of roofing system and do not void roof warranty.
5. Notify Architect of conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:
1. Do not begin installation of conductors and cables until installation of conduit between termination points is complete.

PART 2 PRODUCTS

2.01 CONDUIT - GENERAL REQUIREMENTS

A. Comply with NFPA 70.
B. Provide conduit, fittings, supports, and accessories required for complete raceway system.
C. Provide products listed, classified, and labeled as suitable for purpose intended.
D. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

END OF SECTION

SECTION 262726
WIRING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall switches.

1.02 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Coordinate the placement of outlet boxes with millwork, furniture, equipment, etc. installed under other sections or by others.
2. Coordinate wiring device ratings and configurations with the electrical requirements of actual equipment to be installed.
3. Coordinate the installation and preparation of uneven surfaces, such as split face block, to provide suitable surface for installation of wiring devices.
4. Notify Architect of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

1.04 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.
B. Products: Listed, classified, and labeled as suitable for the purpose intended.

PART 2 PRODUCTS

2.01 WIRING DEVICES - GENERAL REQUIREMENTS

A. Provide wiring devices suitable for intended use with ratings adequate for load served.

END OF SECTION

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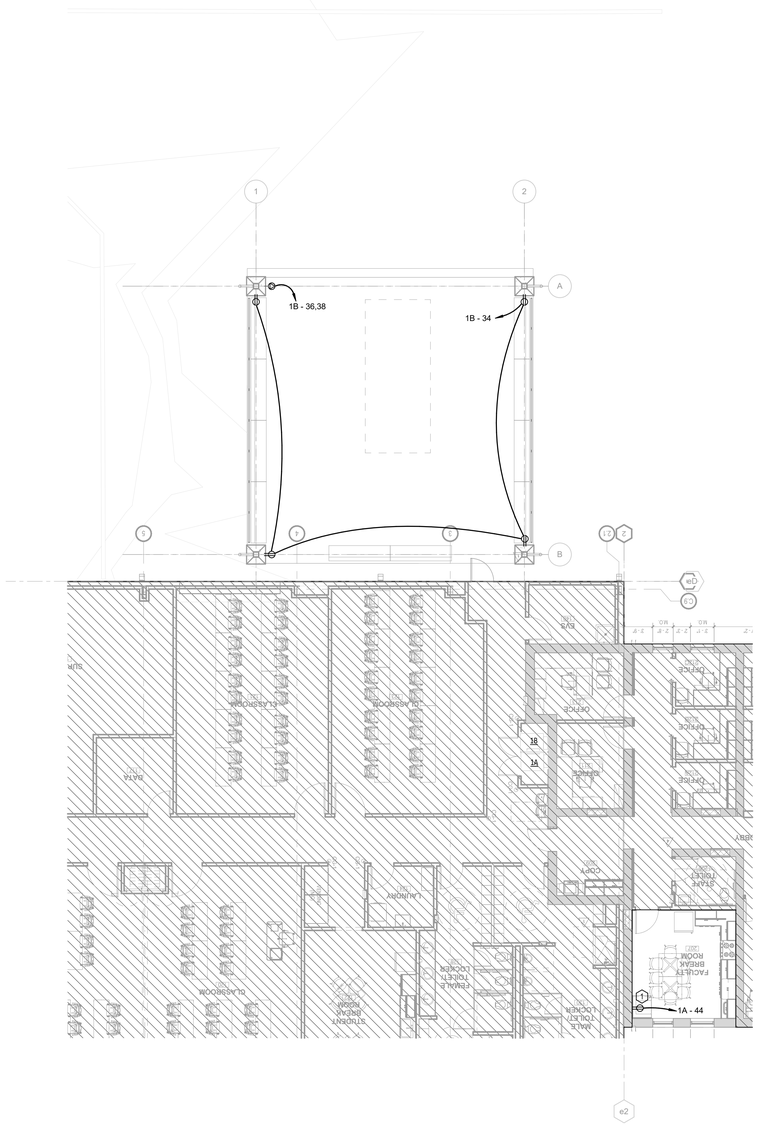
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ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E002

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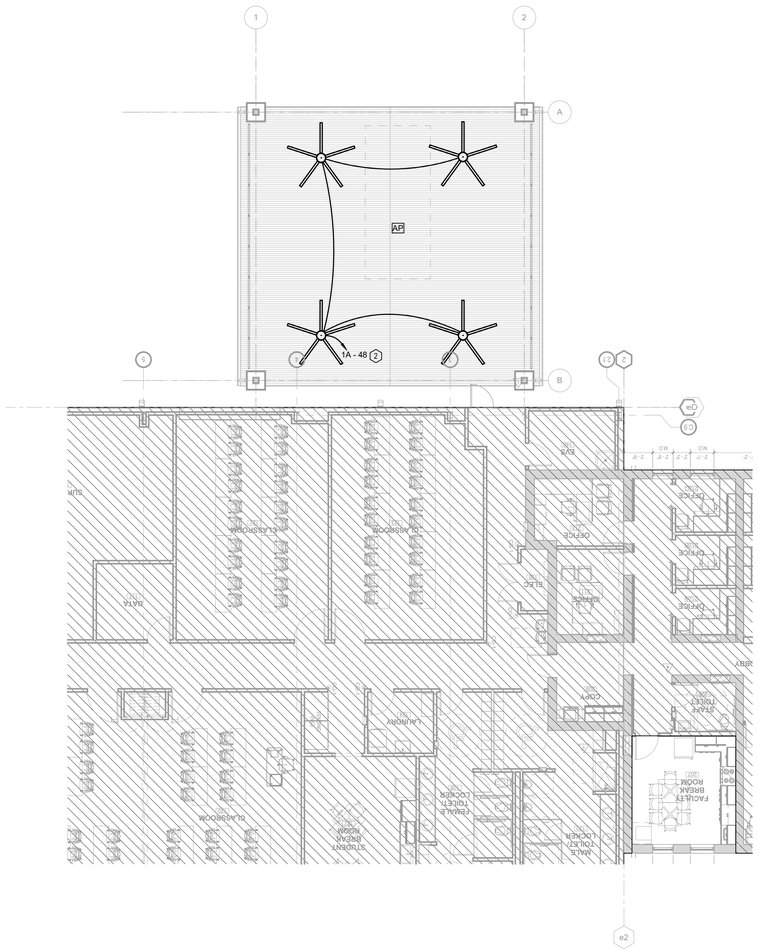


1 POWER - LEVEL 100

SCALE: 1/8" = 1'-0"

1/4" = 1'-0" 2 0 2 4 8

SCALE FEET



2 LIGHTING RCP - LEVEL 100

SCALE: 1/8" = 1'-0"

1/4" = 1'-0" 2 0 2 4 8

SCALE FEET

GENERAL NOTES

1. REFER TO DRAWING E0.00 FOR ELECTRICAL GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. REFER TO PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.
3. EQUIPMENT SHOWN IN GREY IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION AND DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.

KEY NOTES: ⬡

1. RECEPTACLE FOR MICROWAVE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF POWER OUTLETS IN MILLWORK DESKS. COORDINATE WITH EQUIPMENT VENDOR FOR NEMAN CONFIGURATION, AND MOUNTING REQUIREMENTS PRIOR TO ROUGH-IN.
2. CIRCUIT CEILING FAN CONTROL (VIA MOTOR RATED SWITCH) AS SHOWN.

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SHEET TITLE

ELECTRICAL PLAN - LEVEL 100

SHEET NUMBER

E101

7/2/2026 5:03:10 PM

NAME	LOCATION	RATING	PHASE	MAIN TYPE	CIRCUITS	MOUNTING	NEMA	VOLTAGE	SUPPLIED FROM	EQUIPMENT TYPE	A.I.C.
1A		400 A	3	MLO	50	SURFACE	1	120/240 Delta		PANEL BOARD	10,000

CKT	DESCRIPTION	BRKR	POLE	NOTES	A (kVA)		B (kVA)		C (kVA)		NOTES	POLE	BRKR	DESCRIPTION	CKT
1	EX. CU-1	25 A	2		0.00	0.00						2	25 A	EX. CU-2	2
3							0.00	0.00							4
5	EX. AHU-1,2	20 A	1						0.00	0.00		1	20 A	EX. AHU-3,6	6
7	EX. CU-3	25 A	2		0.00	0.00						2	20 A	EX. CU-4	8
9							0.00	0.00							10
11	EX. AHU-4	20 A	1						0.00	0.00		1	20 A	EX. AHU-5	12
13	EX. CU-5	40 A	2		0.00	0.00						2	40 A	EX. CU-5	14
15							0.00	0.00							16
17	EX. AHU-7,8	20 A	1						0.00	0.00		1	20 A	EX. PLUMBING VALVES	18
19	EX. CU-6	20 A	2		0.00	0.00						2	50 A	EX. CU-7	20
21							0.00	0.00							22
23	EX. LIGHTING	20 A	1						0.00	0.00		1	20 A	EX. LIGHTING	24
25	EX. CU-8	20 A	2		0.00	0.00						2	20 A	EX. CU-9	26
27							0.00	0.00							28
29	SPARE	20 A	1						0.00	0.00		1	20 A	EX. EXTERIOR LIGHTING	30
31	EX. L6-30R MDF RECEPTACLE	20 A	2		0.00	0.00						1	20 A	SPARE	32
33							0.00	0.00				2	20 A	EX. L6-30R MDF RECEPTACLE	34
35	EX. EWH-1	20 A	1						0.00	0.00					36
37	SPARE	20 A	1		0.00	0.00						1	20 A	EX. BREAKROOM RECEPTACLES	38
39	EX. ELECTRIC RANGE	40 A	2				0.00	0.00				2	20 A	WASHER/DRYER	40
41									0.00	0.00					42
43	SPACE	--	1		--	1.36						1	15 A	ICE MACHINE / DISPENSER	44
45	SPACE	--	1				--	--				1	--	SPACE	46
47	PANEL 1B	200 A	2						1.44	0.26		1	20 A	EXTERIOR PAVILION FAN	48
49					0.72	--						1	--	SPACE	50
			kVA / PHASE		13.41 kVA		11.33 kVA		13.04 kVA						
			TOTAL CONNECTED LOAD (kVA)		37.78 kVA		91 A		91 A		TOTAL CONNECTED AMPS (A)				
			TOTAL DEMAND LOAD (kVA)		46.28 kVA		111 A		111 A		TOTAL DEMAND AMPS (A)				

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Motor	264 VA	100.00%	264 VA
Receptacle	3516 VA	100.00%	3516 VA
Existing Load - Highest Demand from 12 months of Electric Bills	34000 VA	125.00%	42500 VA

NOTES: DEMAND FROM THE PAST 12 MONTHS (JUNE 2025: 34KW, JULY 2025: 34KW, AUGUST 2025: 34KW, SEPTEMBER 2025: 34KW, OCTOBER 2025: 34KW, NOVEMBER 2025: 34KW, DECEMBER 2025: 34KW, JAN 2026: 34KW, FEB.. MARCH 2026: 34KW, APRIL 2026: 34KW, MAY 2026: 34KW)

NAME	LOCATION	RATING	PHASE	MAIN TYPE	CIRCUITS	MOUNTING	NEMA	VOLTAGE	SUPPLIED FROM	EQUIPMENT TYPE	A.I.C.
1B		200 A	1	MLO	40	SURFACE	1	120/240 Single	1A	PANEL BOARD	10,000

CKT	DESCRIPTION	BRKR	POLE	NOTES	A (kVA)		C (kVA)		NOTES	POLE	BRKR	DESCRIPTION	CKT
1	EX. COMPUTER LAB RECEPT.	20 A	1		0.00	0.00				1	20 A	EX. DRIVE LAB	2
3	EX. COMPUTER LAB RECEPT.	20 A	1				0.00	0.00		1	20 A	EX. SMALL LAB RECEPTACLES	4
5	EX. REFRIGERATOR	20 A	1		0.00	0.00				1	20 A	EX. RECEPTACLES	6
7	EX. OFFICE RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. LARGE LAB RECEPTACLES	8
9	EX. OFFICE RECEPTACLES	20 A	1		0.00	0.00				1	20 A	EX. CLASSROOM FLOOR RECEPTACLES	10
11	EX. OFFICE RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. CLASSROOM FLOOR RECEPTACLES	12
13	EX. OFFICE RECEPTACLES	20 A	1		0.00	0.00				1	20 A	EX. CLASSROOM FLOOR RECEPTACLES	14
15	EX. RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. CLASSROOM FLOOR RECEPTACLES	16
17	EX. CLASSROOM FLOOR RECEPTACLES	20 A	1		0.00	0.00				1	20 A	EX. CLASSROOM FLOOR RECEPTACLES	18
19	EX. CLASSROOM FLOOR RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. VENDING	20
21	EX. CLASSROOM RECEPTACLES	20 A	1		0.00	0.00				1	20 A	EX. VENDING	22
23	EX. BREAKROOM RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. REFRIGERATOR	24
25	EX. CLASSROOM FLOOR RECEPTACLES	20 A	1		0.00	0.00				1	20 A	EX. MICROWAVE	26
27	EX. CLASSROOM FLOOR RECEPTACLES	20 A	1				0.00	0.00		1	20 A	EX. COPIER	28
29	EX. STORAGE CHARGING	20 A	1		0.00	0.00				1	20 A	EX. APPLIANCE	30
31	EX. STORAGE CHARGING	20 A	1				0.00	0.00		1	20 A	EX. APPLIANCE	32
33	EX. DATA RECEPTACLES	20 A	1		0.00	0.72				1	20 A	EXTERIOR PAVILION RECEPTACLES	34
35	EX. DEDICATED DATA RECEPTACLE	20 A	1				0.00	0.72		2	20 A	EXTERIOR PAVILION	36
37	EX. SMALL LAB RECEPTACLE	20 A	1		0.00	0.72							38
39	EX. SMALL LAB RECEPTACLE	20 A	1				0.00	0.00		1	20 A	SPARE	40
			kVA / PHASE		1.44 kVA		0.72 kVA						
			TOTAL CONNECTED LOAD (kVA)		2.16 kVA		9 A		TOTAL CONNECTED AMPS (A)				
			TOTAL DEMAND LOAD (kVA)		2.16 kVA		9 A		TOTAL DEMAND AMPS (A)				

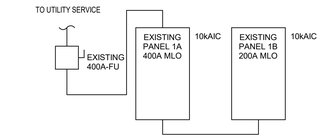
LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Receptacle	2160 VA	100.00%	2160 VA

NOTES:

OCPD CONDUCTOR & RACEWAY SCHEDULE

CIRCUIT OCPD TRIP RATING	CONDUCTOR MATERIAL (AL/CU)	# OF SETS	NEC 310.16 (75°C) CONDUCTORS: CONDUCTOR SIZE PER SET 1Ø = 2-WIRE 3Ø = 3-WIRE	NEC 310.16 (75°C) CONDUCTORS: EQUIP. GROUND CONDUCTOR PER SET	MINIMUM CONDUIT SIZE PER SET: PVC SCH 40 (w/ NEUTRAL & GROUND) 1Ø 3Ø	MINIMUM CONDUIT SIZE PER SET: EMT (w/ NEUTRAL & GROUND) 1Ø 3Ø
15	CU	1	# 12	# 12	1/2" 1/2"	1/2" 1/2"
20	CU	1	# 12	# 12	1/2" 1/2"	1/2" 1/2"
25	CU	1	# 10	# 10	1/2" 1/2"	1/2" 1/2"
30	CU	1	# 10	# 10	1/2" 1/2"	1/2" 1/2"
35	CU	1	# 8	# 10	3/4" 3/4"	3/4" 3/4"
40	CU	1	# 8	# 10	3/4" 3/4"	3/4" 3/4"
45	CU	1	# 8	# 10	3/4" 3/4"	3/4" 3/4"
50	CU	1	# 8	# 10	3/4" 3/4"	3/4" 3/4"
60	CU	1	# 6	# 10	3/4" 1"	3/4" 1"
70	CU	1	# 4	# 8	1" 1-1/4"	1" 1-1/4"
80	CU	1	# 4	# 8	1" 1-1/4"	1" 1-1/4"
90	CU	1	# 3	# 8	1" 1-1/4"	1" 1-1/4"
100	CU	1	# 3	# 8	1" 1-1/4"	1" 1-1/4"
110	CU	1	# 2	# 6	1-1/4" 1-1/4"	1-1/4" 1-1/4"
125	CU	1	# 1	# 6	1-1/4" 1-1/2"	1-1/4" 1-1/2"
150	CU	1	# 1/0	# 6	1-1/2" 1-1/2"	1-1/2" 1-1/2"
175	CU	1	# 2/0	# 6	1-1/2" 2"	1-1/2" 2"
200	CU	1	# 3/0	# 6	2" 2"	2" 2"
225	CU	1	# 4/0	# 4	2" 2-1/2"	2" 2-1/2"
250	CU	1	250 Kcmil	# 4	2" 2-1/2"	2" 2-1/2"
300	CU	1	300 kcmil	# 4	2-1/2" 3"	2-1/2" 2-1/2"
350	CU	1	500 Kcmil	# 3	3" 3-1/2"	2-1/2" 3"
400	CU	2	# 3/0	# 3	2" 2"	2" 2"
450	CU	2	# 4/0	# 2	2" 2-1/2"	2" 2-1/2"
500	CU	2	250 Kcmil	# 2	2" 2-1/2"	2" 2-1/2"
600	CU	2	350 Kcmil	# 1	2-1/2" 3"	2-1/2" 2-1/2"
700	CU	2	500 Kcmil	# 1/0	3" 3-1/2"	2-1/2" 3"
800	CU	3	300 Kcmil	# 1/0	2-1/2" 3"	2-1/2" 2-1/2"
1000	CU	3	400 Kcmil	# 2/0	3" 3"	2-1/2" 3"
1200	CU	4	350 Kcmil	# 3/0	2-1/2" 3"	2-1/2" 3"
1600	CU	4	600 Kcmil	# 4/0	3-1/2" 3-1/2"	3" 3-1/2"
2000	CU	5	600 Kcmil	250 Kcmil	3-1/2" 3-1/2"	3" 3-1/2"
2500	CU	6	600 Kcmil	350 Kcmil	3-1/2" 4"	3" 3-1/2"
3000	CU	8	600 Kcmil	400 Kcmil	3-1/2" 4"	3" 3-1/2"
4000	CU	10	600 Kcmil	500 Kcmil	3-1/2" 4"	3" 3-1/2"
5000	CU	12	600 Kcmil	700 Kcmil	3-1/2" 4"	3-1/2" 3-1/2"
6000	CU	15	600 Kcmil	800 Kcmil	3-1/2" 4"	3-1/2" 3-1/2"

1. PROVIDE A NEUTRAL FOR EACH CIRCUIT UNLESS OTHERWISE NOTED IN THE PLANS OR AS INDICATED IN THE SERVED EQUIPMENT'S MANUFACTURER INSTRUCTIONS.
2. NEUTRALS ARE SIZED AT 100% OF THE ASSUMED CONNECTED LOAD, FIELD VERIFY ACTUAL LOADS AND ADJUST NEUTRAL SIZES BASED ON TOTAL UNBALANCED CONNECTED LOAD PER NEC 220.61.
3. CONDUIT SIZES ARE BASED OFF THHN/THWN INSULATED CONDUCTOR AREA WITH A 40% FILL.
4. CONDUCTORS FEEDING MOTOR & AIR-CONDITIONING/REFRIGERATING EQUIPMENT LOADS AND ASSOCIATED CONTROLLERS SHALL BE ALLOWED TO BE SIZED PER NEC 430.21-29 & 440.31-35 RESPECTIVELY.
5. MAKE FINAL CONNECTIONS TO MOTORS AND TRANSFORMERS USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) WHERE PERMITTED BY NEC 350.
6. FIELD-VERIFY ALL CIRCUIT LENGTHS AND ADJUST CONDUCTOR SIZING AS REQUIRED TO ENSURE THAT TOTAL VOLTAGE DROP FOR THE COMPLETE FEEDER-PLUS-BRANCH CIRCUIT PATH DOES NOT EXCEED 5%.
7. WHEN CONDUCTORS ARE INCREASED IN SIZE TO COMPENSATE FOR VOLTAGE DROP, THE EQUIPMENT GROUNDING CONDUCTOR SIZE MUST BE INCREASED PROPORTIONATELY PER NEC 250.122(B).
8. VERIFY INSTALLATION AMBIENT TEMPERATURES AND ADJUST CONDUCTOR SIZES AS REQUIRED AFTER APPLYING TEMPERATURE-CORRECTION FACTORS PER NEC 310.15(B)(1).
9. IF THE NEUTRAL CONDUCTOR OF A 4-WIRE, 3-PHASE WYE CIRCUIT IS CONSIDERED CURRENT CARRYING PER NEC 310.15(E)(1)-(3), THE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN NEC TABLE 310.15(C)(1). INCREASE CIRCUIT CONDUCTOR SIZES AS REQUIRED SO THE ADJUSTED AMPACITY IS NOT LESS THAN THE CALCULATED LOAD.
10. CONTRACTOR SHALL NOTE ALL CONDUCTOR SCHEDULE DEVIATIONS IN AS-BUILT DOCUMENTATION AND REQUEST EOR APPROVAL ONLY IF NECESSARY.



1 **EXISTING PARTIAL ONE-LINE DIAGRAM**
SCALE: NO SCALE

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GRADY HEALTH SYSTEM
235 ESTORIA ST SE ATLANTA, GA 30316

GRADY EMS TRAINING PAVILION

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED 047450 PROFESSIONAL ENGINEER NATHANIEL D. HAMMOND

SHEET TITLE
ELECTRICAL PANEL SCHEDULES & ONE-LINE DIAGRAM

SHEET NUMBER
E601

7/2/2026 5:03:10 PM

PROJECT GENERAL NOTES:

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL BE ROUTED DIRECTLY BETWEEN COMPONENTS WITH NO JUNCTIONS OR SPLICES IN CABLING AND SHALL BE LABELED ACCORDING TO TIA-606A/B STANDARDS AND SPECIFICATIONS.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. FOR INTERIOR LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY OR LADDER RACK FROM LOW VOLTAGE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO TELECOM ROOM. CABLING SHALL BE SUPPORTED AT 5'-0" MAX INTERVALS. J-HOOK PATHWAYS SHALL BE ESTABLISHED TO SUPPORT CABLING AND PREVENT CONTACT OF THE CABLING WITH BUILDING STRUCTURE AND OTHER MECHANICAL SYSTEMS AND MECHANICAL SYSTEMS MOUNTING HARDWARE.
5. ALL CABLING IN SLAB ON GRADE OR BELOW GRADE TO BE OUTSIDE PLANT - WET LOCATION RATED. OSP CABLING TO BE ROUTED IN METAL CONDUIT SYSTEM TO TELECOM ROOM. OSP CABLING NOT PERMITTED TO BE EXPOSED BEYOND 50' FROM THE POINT OF BLDG ENTRY NOR IN PLENUM SPACE.
6. **ALL CONDUITS TO BE 1" TRADE SIZE (UNLESS NOTED OTHERWISE)**
7. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.
8. ALL CONDUIT AND BACKBOX INSTALLATION/ROUGH-IN TO BE COMPLETED BY ELECTRICAL CONTRACTOR. ALL CONDUITS TO BE ROUTED FROM BACKBOX TO NEAREST ACCESSIBLE CEILING SPACE OR STRUCTURED CABLING PATHWAYS.
9. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
10. NO CONDUIT RUN SHALL CONTAIN A SINGLE BEND GREATER THAN 90° OR AN AGGREGATE OF BENDS GREATER THAN 180° BETWEEN PULLING POINTS. NO CONDUIT RUN SHALL EXCEED 100' BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN BEND AND DISTANCE REQUIREMENTS.
11. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
12. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
13. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES WITHOUT FACEPLATES, AND PULL BOXES. LABELING SHALL INCLUDE THE CABLE TYPES AND THE APPLICABLE NUMBERING SCHEME FOR EACH CABLE CONTAINED WITHIN THE BOX. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS.
14. IN OPEN CEILINGS, NON-ACCESSIBLE CEILING SPACE, MECHANICAL SPACES, AND ELEVATOR CONTROL ROOMS, ALL SIGNAL AND LOW VOLTAGE POWER CABLE TO BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 1". SIZE PER NEC 40% FILL REQUIREMENT.
15. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT. UTILIZE STRUCTURALLY CONDUIT LEAVE OUTS IN LIEU OF ROUTING BELOW STRUCTURAL BEAMS.
16. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
17. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL MEET THE REQUIREMENTS OF ANSI/TIA568 AND SHALL NOT EXCEED 90 METERS (295 FT) OF TOTAL CABLE DISTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF 90 METER RULE.
18. LOW VOLTAGE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. LOW VOLTAGE CONTRACTOR TO FIRE STOP ALL PENETRATIONS TO MAINTAIN RATING OF WALL. SEE DETAILS FOR EXACT REQUIREMENTS.
19. COORDINATE EXACT LOCATION OF VOICE/DATA, DATA, & TV OUTLETS WITH POWER RECEPTACLES.
20. WIRELESS ACCESS POINT FINAL QUANTITIES AND LOCATIONS TO BE DETERMINED THROUGH PREDICTIVE SURVEY ANALYSIS. SURVEY ANALYSIS SHALL BE SUBMITTED TO DESIGN TEAM FOR APPROVAL PRIOR TO DEVICE INSTALLATION.
21. COORDINATE ALL VIDEO SURVEILLANCE CAMERA LOCATIONS WITH FIELD CONDITIONS. CONTRACTOR TO VERIFY CLEAR FIELD OF VIEW AND SUBMIT RFI FOR RELOCATION DUE TO OBSTRUCTION OF VIEWS.
22. FOR ALL EXTERIOR CAMERA LOCATIONS AND CABLING ROUTED THROUGH EXTERIOR WALLS, CONTRACTOR TO PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICES (TVSS) FOR SIGNAL AND POWER CONDUCTORS TYPICAL TO DITEK DTK-MRJPOES AT CAMERA LOCATION AND DITEK RACK MOUNT DTK-RM12POE SURGE PROTECTOR AT ASSOCIATED TELECOM CLOSET.
23. REFERENCE SECURITY CAMERA SCHEDULES FOR VIEWS AND MOUNTING REQUIREMENTS. POSITION CAMERAS AS NOTED ON DRAWINGS THEN ADJUST AND FOCUS CAMERA VIEW TO SATISFACTION OF OWNER. COORDINATE LOCATIONS OF ALL VIDEO SURVEILLANCE CAMERAS WITH BUILDING SYSTEMS IN ORDER TO ENSURE CLEAR FIELD-OF-VIEW.
24. COORDINATE MEDIA CONVERSION DEVICE REQUIREMENTS, ELECTRICAL POWER, ANCILLARY ENCLOSURES, & COMPOSITE FIBER/COPPER CABLE LOCATIONS WITH DIVISION 27. COMPOSITE FIBER CABLING REQUIRED FOR VIDEO SURVEILLANCE CAMERAS LOCATED ON LIGHTING POLES AND AT LOCATIONS EXCEEDING 100 METERS FROM IDF/TELECOM ROOMS.
25. INTERFACE SECURITY AND ACCESS CONTROL SYSTEM POWER SUPPLIES WITH FIRE ALARM SYSTEM OUTPUTS. ALL DOORS TO RELEASE UPON FIRE ALARM SIGNAL, WHERE REQUIRED BY CODE.
26. SECURITY CONTRACTOR TO PROVIDE ALL LOCK POWER SUPPLIES AND INTERFACE TO ELECTRONIC DOOR HARDWARE FOR CONTROL.
27. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS AS WELL AS LOCAL AHJ TO MAINTAIN EGRESS REQUIREMENTS.
28. ALL CONDUITS ROUTED BELOW GRADE TO BE SCHEDULE 40 PVC AND ALL CONDUITS ROUTED ABOVE GRADE TO BE EMT.
29. ALL CONDUITS ROUTED BELOW GRADE TO BE SEALED TO PREVENT WATER INFILTRATION INTO EQUIPMENT ROOMS.
30. ALL CONDUIT INSTALLED INDOORS AND BELOW CEILING TO BE PAINTED TO MATCH DECOR.
31. AS REQUIRED BY NATIONAL ELECTRIC CODE, NEC 300.5 (A), PROVIDE MINIMUM OF 24" OF COVER WHERE CONDUITS ARE CROSSING UNDER STREETS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING AREAS.
32. CONTRACTOR SHALL UTILIZE RIGID CONDUIT ELBOWS FOR ALL 90° CONDUIT TURN-UPS FROM UNDERGROUND DUCT BANKS TO INTERIOR LOCATIONS.
33. REFERENCE VOICE AND DATA ONE-LINE DIAGRAMS FOR INSTALLATION REQUIREMENTS ASSOCIATED WITH REQUIRED BACKBONE CABLING SYSTEMS.
34. REFERENCE ELECTRICAL SPECIFICATIONS FOR DUCT BANK INSTALLATION REQUIREMENTS. ALL NEW EXTERIOR DUCTBANKS TO BE PROVIDED WITH METALLIC TRACER WIRE TO ALLOW FUTURE LOCATION.

COMMON ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT	MDF	MAIN DISTRIBUTION FRAME
AFC	ABOVE FINISHED CEILING	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MMFO	MULTIMODE FIBER OPTIC CABLE
ALT	ALTERNATE	MTD	MOUNTED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE		
ARCH	ARCHITECT, ARCHITECTURAL	NA	NOT APPLICABLE
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NETWORK
		NIC	NOT IN CONTRACT
BDA	BI-DIRECTIONAL ANTENNA	NTS	NOT TO SCALE
BFF	BELOW FINISHED FLOOR		
BLDG	BUILDING	OC	ON CENTER
BOH	BACK OF HOUSE	OD	OUTSIDE DIAMETER
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
C	CONDUIT	OFE	OWNER FURNISHED EQUIPMENT
CAT	CATEGORY CABLE	OFOI	OWNER FURNISHED OWNER INSTALLED
CL	CENTER LINE		
CLG	CEILING	PC	PERSONAL COMPUTER
CMU	CONCRETE MASONRY UNIT	PDU	POWER DISTRIBUTION UNIT
COL	COLUMN	PGM	PROGRAM
CTRL	CONTROL	PH	PHASE
		PNL	PANEL
D	DEPTH, DEEP	POE	POWER OVER ETHERNET
DAS	DISTRIBUTED ANTENNA SYSTEM	PRH	PROJECT RECEPTACLE HEIGHT
DEMO	DEMOLITION	PROX	PROXIMITY SENSOR
DIA	DIAMETER	PS	POWER SUPPLY
DIM	DIMENSIONS	PSI	POUNDS PER SQUARE INCH
DIV	DIVISION	PT	PASS THROUGH
DS	DIGITAL SIGNAGE DISPLAY	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PWR	POWER
EA	EACH	QTY	QUANTITY
EC	ELECTRICAL CONTRACTOR		
EL	ELEVATION	R	RIGHT
ELEC	ELECTRICAL	RCP	REFLECTED CEILING PLAN
ENCL	ENCLOSURE	REF	REFERENCE, REFER
EMT	ELECTRICAL METALLIC TUBING	REQ	REQUIRED
EQUIP	EQUIPMENT	REV	REVISION, REVISE
ER	EQUIPMENT RACK	RM	ROOM
EX	EXISTING	RPM	REVOLUTIONS PER MINUTE
FA	FIRE ALARM	SQFT	SQUARE FEET
FB	FLOOR BOX	SIM	SIMILAR
FLEX	FLEXIBLE	SMFO	SINGLE MODE FIBER OPTIC CABLE
FLR	FLOOR	SPEC	SPECIFICATION
FO	FIBER OPTIC	SQ	SQUARE
FT	FEET	STD	STANDARD
		STP	SHIELDED TWISTED PAIR
GND	GROUND	SUSP	SUSPEND
GA	GAUGE		
		TBB	TELECOM GROUNDING BUSBAR
H	HEIGHT	TBD	TO BE DETERMINED
HOR	HORIZONTAL	TMGB	TELECOM MAIN GROUNDING BUSBAR
		TYP	TYPICAL
I/O	INPUT / OUTPUT		
ID	INSIDE DIAMETER	UL	UNDERWRITERS LABORATORIES, INC.
IDF	INTERMEDIATE DISTRIBUTION FRAME	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
ISO	ISOLATED	USB	UNIVERSAL SERIAL BUS
		UTP	UNSHIELDED TWISTED PAIR
JB	JUNCTION BOX		
		V	VOLT
KPD	KEYPAD	VA	VOLT-AMPRE
KW	KILOWATT	VERT	VERTICAL
		VOIP	VOICE OVER INTERNET PROTOCOL
L	LENGTH, LEFT		
L/R	LEFT / RIGHT	W/	WITH
LAN	LOCAL AREA NETWORK	W/O	WITHOUT
LB	POUNDS	WP	WEATHERPROOF
LTG	LIGHTING	WT	WEIGHT

DEVICE LEGEND - TELECOM/STRUCTURED CABLING

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	CABLING QTY & TYPE	ELECTRICAL CONDUIT ROUGH-IN	DEVICE NOTES
	WALL MOUNT EXTERIOR WIRELESS ACCESS POINT DATA OUTLET	WEATHERPROOF SINGLE GANG BACKBOX WITH SINGLE GANG TILE RING AND GROMMETED FACEPLATE	144" AFG - UNO	(2) CATEGORY 6A - UNO	ONE(1) - 1" EMT CONDUIT	PROVIDE 20' SERVICE LOOP SUPPORTED FROM J-HOOKS SPACED 12' APART AND SUPPORTED FROM STRUCTURAL CEILING ABOVE. SEE DETAIL 1/LV-502 FOR INSTALLATION OF OWNER PROVIDED AND CONTRACTOR INSTALLED WIRELESS ACCESS POINT

LOW VOLTAGE SYSTEM REQUIREMENTS:

GENERAL

ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

REGULATORY REQUIREMENTS:

- THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) WITH 2023 GEORGIA AMENDMENTS.
- THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS.
- THE CURRENT EDITION OF THE LIFE SAFETY CODE (NFPA 101).
- NFPA 99 (Health Care Facilities Code)
- THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C 2).
- AMERICANS WITH DISABILITIES ACT (ADA)
- LOCAL CITY AND COUNTY ORDINANCES GOVERNING ELECTRICAL WORK.
- ANSI/TIA-568.1-D (GENERAL CABLING REQUIREMENTS)
- ANSI/TIA-568.2-D (BALANCED TWISTED-PAIR CABLING)
- ANSI/TIA-568.3-D (OPTICAL FIBER CABLING)
- ANSI/TIA-569-E (PATHWAYS & SPACES)
- ANSI/TIA-606-C (ADMINISTRATION & LABELING)
- ANSI/TIA-607-D (BONDING & GROUNDING)
- ANSI/TIA-1179-A (HEALTHCARE FACILITIES STANDARD)
- BICSI TDMM
- FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS (CURRENT ADOPTED EDITION)
- IN THE EVENT OF CONFLICTS, THE MORE STRINGENT PROVISIONS SHALL APPLY.

ALL NEW EQUIPMENT, DEVICES, AND FIXTURES SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING WHERE SUCH STANDARDS ARE APPLICABLE:

- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
- UNDERWRITERS' LABORATORIES, INC. (UL)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- BUILDING INDUSTRY CONSULTING SERVICES INTL (BICSI)

A. THE CONTRACTOR SHALL FURNISH AND INSTALL DEVICES AS INDICATED ON THE CONTRACT DRAWINGS, PROVIDING FULLY FUNCTIONAL SYSTEMS. ALL MATERIALS, OBVIOUSLY A PART OF THE LV SYSTEMS AND NECESSARY TO ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED, AND INSTALLED WITHOUT ADDITIONAL CHARGE.

B. THE CONTRACTORS SHALL USE CARE TO PROTECT EXISTING CABLES IN CEILINGS, WALLS, TELECOM ROOMS, AND EQUIPMENT RACKS. PRECAUTIONS SHALL BE TAKEN TO NOT DAMAGE OR DISRUPT THE OPERATION OF ANY EXISTING SYSTEM.

C. THE LV CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS.

D. VERIFY THE LOCATION OF CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

E. ALL PENETRATIONS OF FIRE OR SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH APPROVED FIRE STOPPING MATERIALS. FIRE STOPPING MATERIALS SHALL BE LISTED FOR THE RATING OF THE CONSTRUCTION TO BE PENETRATED.

F. INSTALLER QUALIFICATIONS SHALL INCLUDE AT LEAST 3 YEARS OF SUCCESSFUL APPLICATION, INSTALLATION, AND TESTING EXPERIENCE ON THE SPECIFIED EQUIPMENT. INSTALLERS ASSIGNED TO PERFORM THE INSTALLATION LV SYSTEM AND COMPONENTS SHALL HAVE A MINIMUM OF 3 YEAR'S EXPERIENCE.

FIRESTOP

A. THE LV CONTRACTOR SHALL USE EZ-PATH SLEEVES FOR ROUTING LOW VOLTAGE CABLING INTO IDF CLOSETS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE ASSEMBLY RATING OF THE EZ-PATH SYSTEMS USED WHEN ROUTING CABLES.

B. REPORT TO THE GENERAL CONTRACTOR'S PROJECT MANAGER ANY EXISTING BREACHES IN FIRE OR SMOKE BARRIERS ENCOUNTERED THROUGHOUT THE PROJECT.

C. ALL PENETRATIONS SHALL BE FIRESTOPPED USING SYSTEMS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479.

D. FIRESTOP SYSTEMS SHALL MATCH CONSTRUCTION TYPE AND RATING.

E. SLEEVES SHALL BE PROVIDED FOR ALL PENETRATIONS IN RATED WALL

SUBMITTALS

A. CONTRACTORS SHALL PROVIDE SUBMITTALS FOR INDIVIDUAL SYSTEMS AND EQUIPMENT ASSEMBLIES THAT CONSIST OF MORE THAN ONE ITEM OR COMPONENT. SUBMITTALS SHALL BE ARRANGED BY SYSTEM TYPE AND QUANTITY OF DEVICES TO BE PROVIDED.

MATERIALS

A. WHERE EQUIPMENT IS IDENTIFIED BY THE MANUFACTURER AND CATALOG NUMBER, IT SHALL BE THE BASE OF REQUIREMENTS FOR QUALITY AND PERFORMANCE. WHERE MANUFACTURERS FOR EQUIPMENT ARE IDENTIFIED BY NAME, THE CONTRACTOR SHALL PROVIDE EQUIPMENT WITHOUT SUBSTITUTION.

B. ALL COPPER CABLES AND COMPONENTS SHALL BE PROVIDED AND INSTALLED BY MANUFACTURER CERTIFIED INSTALLERS THAT SHALL PROVIDE AN EXTENDED WARRANTY OF 20 YEARS FOR CERTIFIED INSTALLATIONS. MANUFACTURER SHALL PROVIDE WARRANTIES AND CONTRACTOR SHALL PROVIDE DOCUMENTATION OF CERTIFICATION BY MANUFACTURER. ACCEPTABLE COPPER SOLUTION MANUFACTURERS SHALL BE THE PRODUCTS OF THE FOLLOWING MANUFACTURER - COMMSCOPE CABLING SYSTEM.

TESTING

A. ALL CABLES AND TERMINATION HARDWARE SHALL BE 100% TESTED FOR DEFECTS IN INSTALLATION AND TO VERIFY CABLING SYSTEM PERFORMANCE UNDER INSTALLED CONDITIONS ACCORDING TO THE REQUIREMANTS OF ANSI/TIA/EIA 568-C.

B. ALL TWISTED-PAIR COPPER CABLE LINKS SHALL BE TESTED FOR CONTINUITY, PAIR REVERSALS, SHORTS, OPENS, AND PERFORMANCE AS INDICATED BELOW. ADDITIONAL TESTING IS REQUIRED TO VERIFY CATEGORY 6 PERFORMANCE. HORIZONTAL BALANCED TWISTED PAIR CABLING SHALL BE TESTED USING A LEVEL III TEST UNIT FOR CATEGORY 6 COMPLIANCE AND PERFORMANCE UP TO 350 MHZ. THE CABLE LENGTH SHALL CONFORM TO THE MAXIMUM DISTANCES SET FORTH IN THE ANSI/TIA/EIA 568 B.1-3 STANDARD.

C. TEST DOCUMENTATION SHALL BE PROVIDED AS PART OF THE AS-BUILT PACKAGE. PRINTOUTS GENERATED FOR EACH CABLE BY THE WIRE TEST INSTRUMENT SHALL BE SUBMITTED AS PART OF THE DOCUMENTATION PACKAGE. THE DOCUMENTATION SHALL INCLUDE THE WORDS "PROJECT TEST DOCUMENTATION", THE PROJECT NAME, AND THE DATE OF COMPLETION (MONTH AND YEAR). THE RESULTS SHALL INCLUDE A RECORD OF TEST FREQUENCIES, CABLE TYPE, CONDUCTOR PAIR (OR STRAND) AND CABLE (OR OUTLET) I.D., MEASUREMENT DIRECTION, REFERENCE SETUP, AND CREW MEMBER NAME(S). THE TEST EQUIPMENT NAME, MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, SOFTWARE VERSION, AND LAST CALIBRATION DATE WILL ALSO BE PROVIDED AT THE END OF THE DOCUMENT. THE TEST DOCUMENT SHALL DETAIL THE TEST METHOD USED AND THE SPECIFIC SETTINGS OF THE EQUIPMENT DURING THE TEST AS WELL AS THE SOFTWARE VERSION BEING USED IN THE FIELD TEST EQUIPMENT.

LABELING & ADMINISTRATION

A. ALL CABLING, PATCH PANELS, AND OUTLETS SHALL BE LABELED PER ANSI/TIA-606-C. PROVIDE A STRUCTURED LABELING SCHEME COORDINATED WITH OWNER'S IT STANDARDS. LABELS SHALL BE MACHINE-GENERATED, PERMANENT, AND LEGIBLE.

AS-BUILT DRAWINGS

A. AS-BUILT DRAWINGS SHALL ACCURATELY RECORD THE LOCATION OF ALL DEVICES. DRAWINGS SHALL INDICATE CABLE ROUTING AND IDENTIFICATION, SYSTEM FUNCTION DIAGRAMS, CONNECTION, AND PROGRAMMING SCHEDULES AS APPROPRIATE.

B. FURNISH AS-BUILT DRAWINGS AND DOCUMENTATION TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. AS-BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD AND PDF FORMAT.

WARRANTY

A. LV SYSTEMS IN GENERAL: ALL EQUIPMENT IS TO BE NEW AND WARRANTED FREE OF FAULTY WORKMANSHIP AND DAMAGE. THE CONTRACTOR SHALL PROVIDE THE REPLACEMENT OF DEFECTIVE EQUIPMENT AND MATERIALS AND REPAIR OF FAULTY WORKMANSHIP WITHIN 24 HOURS OF NOTIFICATION, EXCEPT FOR EMERGENCY CONDITIONS (SYSTEM FAILURES), WHICH MUST BE PLACED BACK IN SERVICE WITHIN EIGHT (8) HOURS OF NOTIFICATION, ALL AT NO COST TO THE OWNER. THE MINIMUM WARRANTY PROVISIONS SPECIFIED SHALL NOT DIMINISH THE TERMS OF INDIVIDUAL EQUIPMENT MANUFACTURER'S WARRANTIES.

B. HORIZONTAL STRUCTURED CABLING: THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE A 25-YEAR MANUFACTURER WARRANTY FOR COMPONENTS USED IN THE INSTALLED STRUCTURED CABLING SYSTEM. DEFECTIVE AND/OR IMPROPERLY INSTALLED PRODUCTS SHALL BE REPLACED AND/OR CORRECTLY INSTALLED AT NO COST TO THE OWNER.

SHEET LIST

SHEET NUMBER	SHEET NAME
LV-000	COVER PAGE AND LEGENDS
LV-201	LEVEL 1 - FLOOR PLAN
LV-401	ONE-LINE DIAGRAM - DATA DISTRIBUTION
LV-501	DETAILS - FIRESTOP
LV-502	DETAILS - INSTALLATION

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GRADY HEALTH SYSTEM

GRADY EMS TRAINING PAVILION

235 ESTORIA ST SE ATLANTA, GA 30316

PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. PE048042 PROFESSIONAL ENGINEER JALEB R PERKINS

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

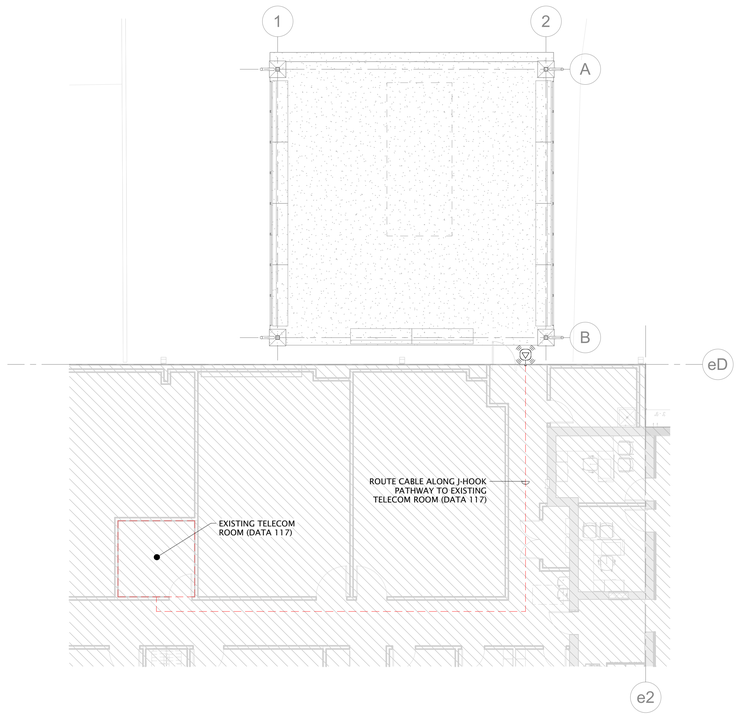
SHEET TITLE

COVER PAGE AND LEGENDS

SHEET NUMBER

LV-000

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1 **LEVEL 1 - FLOOR PLAN**
1/8" = 1'-0"

GENERAL NOTES:

A. ALL INTERIOR LOW VOLTAGE CABLES SHALL BE PLENUM RATED. IN OPEN CEILINGS AND CEILING SPACES THAT ARE NOT ACCESSIBLE, CABLES SHALL BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 3/4", SIZE ALL CONDUIT PER NEC 40% FILL REQUIREMENT.

B. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.

C. FOR ALL LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY FROM DEVICE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO NEAREST CORRIDOR J-HOOKTREE SUPPORT SYSTEM. J-HOOKS SHALL BE INSTALLED ON 4'-0" TO 5'-0" CENTERS.

D. THE J-HOOK PATHWAY FOR HORIZONTAL LOW VOLTAGE CABLES SHALL BE COORDINATED WITH OTHER TRADES, PLACEMENT SHALL ALLOW FUTURE ACCESS AND LINE UP WITH FIREWALL PENETRATIONS.

E. ALL VOICE, DATA, & CATV CABLES TO BE ROUTED DIRECT TO TELECOM ROOM WITHOUT SPLICES. NO JUNCTIONS OR SPLICES IN CABLES ARE ACCEPTABLE.

F. REFERENCE DETAIL SHEETS FOR DEVICE MOUNTING REQUIREMENTS AND ADDITIONAL INFORMATION. COORDINATE THE LOCATION AND MOUNTING HEIGHT OF LOW VOLTAGE DEVICES WITH THE ARCHITECTURAL FLOOR PLANS AND ELEVATION DRAWINGS.

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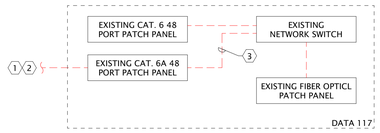
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LEVEL 1 -
FLOOR PLAN

SHEET NUMBER

LV-201

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KEY NOTES:

1. PROVIDE PLENUM-TYPE 23 AWG/CATEGORY 6A COMPLIANT 4 PR. CABLES FROM CATEGORY 6A PATCH PANELS IN TELECOM ROOMS TO DEVICE LOCATIONS.
2. REFERENCE OUTLET DETAILS FOR TERMINATIONS REQUIREMENTS.
3. PROVIDE ONE(1) 2-METER CATEGORY 6A PATCH CABLE FOR EACH TERMINATED CAT. 6A CIRCUIT. COORDINATE EXACT COLOR AND LENGTHS WITH OWNER PRIOR TO ORDERING.

SYSTEM REQUIREMENTS:

A. THE STRUCTURED CABLING CONTRACTOR SHALL UPDATE THE WALL MOUNTED AND FRAMED 11"X 17" AS-BUILT DRAWING REFLECTING CONSOLIDATION POINTS, AND WORKSTATION OUTLETS IN EACH RESPECTIVE IDF.

B. PASS THROUGH FACEPLATES: FACEPLATE SHALL BE SINGLE GANG, BRUSHED ALUMINUM, 1" GROMMET CABLE PASS THROUGH. PROVIDE LEGRAND PART #CG40488.

C. CATEGORY 6/6A PATCH PANEL: 48 PORT, 1U, HIGH DENSITY PANEL, M4800-PANELS SERIES. PROVIDE COMMSCOPE PART #760105429. UTILIZE EXISTING SPARE PORTS, PROVIDE NEW AS REQUIRED.

D. WIRELESS ACCESS DATA JACKS: COLOR SHALL BE "GREEN", CATEGORY 6A. PROVIDE COMMSCOPE UNIPRISE JACK PART # UNJ10G-GN.

E. WIRELESS DATA CABLE: CATEGORY 6A CABLE COLOR SHALL BE "GREEN". PROVIDE COMMSCOPE UNIPRISE PART # UN874035904/10.

1 ONE-LINE DIAGRAM - DATA DISTRIBUTION

N.T.S.

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PROJECT NO: 26031.00

01	CD PACKAGE	06/25/2026

GEORGIA REGISTERED No. PE048042 PROFESSIONAL ENGINEER MALEB R PERKINS

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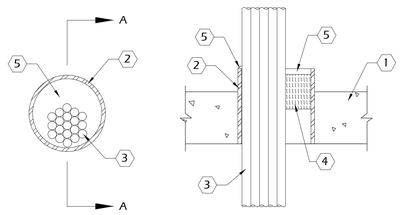
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ONE-LINE DIAGRAM - DATA DISTRIBUTION

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LV-401

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SECTION A-A

F RATINGS -2, 3 AND 4 HR (SEE ITEM 5)
T RATINGS - 0, 1/2 AND 2-3/4 HR (SEE ITEM 5)

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) OR 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. MAX DIAM OF OPENING IS 6 IN. (152 MM).
   SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. SLEEVE - (OPTIONAL) - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE, NOM 6 IN. (152 MM) DIAM (OR SMALLER) NO. 26 GA (0.022 IN. OR 0.56 MM THICK) SHEET STEEL SLEEVE WITH SQUARE ANCHOR FLANGE SPOT WELDED TO SLEEVE AT APPROX MID-HEIGHT OR NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL FLUSH WITH FLOOR OR WALL SURFACES. STEEL PIPE SLEEVE MAY BE INSTALLED TO PROJECT A MAX OF 2 IN. (51 MM) BEYOND THE FLOOR OR WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SLEEVE. SEE ITEM 5 FOR SPECIFIC CABLE FILL REQUIREMENTS. TIGHT BUNDLE OF CABLES TO BE INSTALLED IN THE STEEL SLEEVE. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 0 IN. (POINT CONTACT) TO A MAX OF 2 IN. IN 4 HR FIRE RATED ASSEMBLIES, THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 1/4 IN. (6 MM) TO A MAX OF 1 IN. (25 MM). CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 2/0 AWG (OR SMALLER) COPPER CONDUCTOR PVC JACKETED ALUMINUM CLAD OR STEEL CLAD TECK 90 CABLE.
   D. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   E. MAX 1/C 1000 KCMIL (OR SMALLER) COPPER CONDUCTOR POWER CABLE WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   F. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   G. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   H. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.

3A. THROUGH PENETRATING PRODUCT* - (NOT SHOWN) - MAX 4/C NO. 2/0 AWG (OR SMALLER) STEEL OR ALUMINUM ARMORED CABLE+ OR METAL CLAD CABLE+ WITH COPPER OR ALUMINUM CONDUCTORS. DIAM OF CABLE BUNDLE (ITEM 3) INCLUDING ARMORED CABLE NOT TO EXCEED 4 IN. THROUGH PENETRATING PRODUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF A FLOOR OR WALL ASSEMBLY.

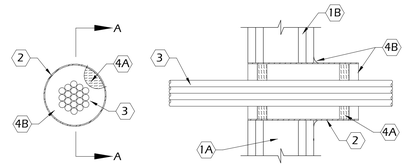
4. AFC CABLE SYSTEMS INC
   PACKING MATERIAL - MIN 2, 3 OR 4 IN. (51, 76 OR 102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) DENSITY MINERAL-WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM FOR 2, 3 OR 4 HR FIRE RATED ASSEMBLIES, RESPECTIVELY . PACKING MATERIAL TO BE RECESSED FROM TOP EDGE OF SLEEVE OR FROM TOP SURFACE OF CONCRETE IN CAST CONCRETE FLOOR ASSEMBLIES TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE RECESSED FROM BOTH EDGES OF SLEEVE OR FROM BOTH SURFACES OF ASSEMBLY IN WALLS AND IN FLOOR CONSTRUCTED WITH HOLLOW-CORE PRECAST CONCRETE UNITS TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

5. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS FOR 2 AND 3 HR F RATINGS. MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS FOR 4 HR F RATING. IN FLOORS, FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP EDGE OF SLEEVE OR TOP SURFACE OF FLOOR. IN WALLS AND IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS, FILL MATERIAL TO BE INSTALLED FLUSH WITH BOTH ENDS OF SLEEVE OR BOTH SURFACES OF ASSEMBLY. F AND T RATINGS OF FIRESTOP SYSTEM ARE DEPENDENT UPON THE THROUGH OPENING SIZE, THICKNESS OF CONCRETE, SLEEVE TYPE AND PERCENT CABLE FILL, AS SHOWN IN THE FOLLOWING TABLE:

MAX OPENING DIAM	MIN CONCRETE THICKNESS	OPTIONAL SLEEVE TYPE	CABLE TYPE	PERCENT CABLE FILL	F RATING	T RATING
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	H	45	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	H	45	2 HR	0 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	A TO H, 3A	34	3 HR	1/2 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	H	45	3 HR	1/2 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	3 HR	2-3/4 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	4 HR	2-3/4 HR

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

1 FIRESTOP SYSTEM - C-AJ-3154
NOT TO SCALE



SECTION A-A

F RATINGS -1 AND 2 HR (SEE ITEM 1)
T RATING - 3/4 HR

KEY NOTES: (APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 X 4 IN. (51 X 102MM) LUMBER SPACED 16 IN. (406MM) OC. STEEL STUDS TO BE MIN 3-5/8 IN. (92MM) WIDE AND SPACED MAX 16 IN. (406MM) OC.

   B. GYPSUM BOARD - THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 4-1/2 IN. (114MM).

   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL SLEEVE - NOM. 4 IN. (102MM) DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT), STEEL CONDUIT OR SCHEDULE 5 (OR HEAVER) STEEL PIPE SLEEVE FRICTION-FITTED INTO WALL ASSEMBLY. SLEEVE MAY BE INSTALLED FLUSH WITH OR EXTEND UP TO 18 IN. (46 CM) BEYOND ONE OR BOTH WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE CABLES AND THE SLEEVE SHALL BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1-1/2 IN. (38MM). ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:

   A. MAX 200 PAIR NO. AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   E. MAX. RG/U (OR SMALLER) COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   F. MAX. 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   H. MAX. 4/C NO 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

   A. PACKING MATERIAL - WHEN REQUIRED (SEE TABLE IN ITEM 3B), MIN. 1 IN. (25MM) THICKNESS OF MIN. 4.0 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO EACH END OF SLEEVE AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH END OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

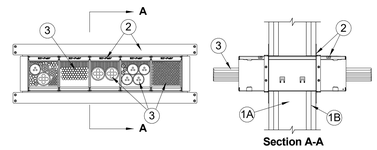
   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - FILL MATERIAL APPLIED TO APPROPRIATE THICKNESS WITHIN STEEL SLEEVE, FLUSH WITH EDGES OF STEEL SLEEVE ON BOTH SURFACES OF WALL. MIN. 1/2 IN. (13MM) DIAM. BEAD OF SEALANT OR 'ROPE' OF PUTTY SHALL BE APPLIED AROUND THE PERIMETER OF THE SLEEVE ON EACH SIDE OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL. SEE TABLE BELOW FOR FILL MATERIAL THICKNESS REQUIREMENTS.

SEALANT OR PUTTY TYPE	THICKNESS	PACKING MATERIAL REQUIRED
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1/2 IN. (13 MM)	YES
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1 IN. (25 MM)	NO
SPECSEAL PUTTY	1 IN. (25 MM)	NO

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

2 FIRESTOP SYSTEM - W-L-3210
NOT TO SCALE

SYSTEM NO. W-L-3306
F RATINGS - 1 AND 2 HR
T RATINGS - 0, 1/2, 3/4, 1, 1-1/2 AND 2 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1, 2.3, 6.2, 6.7 OR 7.4 CFM/DEVICE MODULE (SEE ITEM 3)
L RATING AT 400F - LESS THAN 1, 2.3, 4.5, 5 OR 6.7 CFM/DEVICE MODULE (SEE ITEM 3)



Section A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED WITHIN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCORPORATE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED MAX 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. OPENING IN GYPSUM BOARD TO BE MAX 1/4 IN. (6 MM) LARGER THEN WIDTH AND HEIGHT DIMENSIONS OF FIRESTOP DEVICE(S). THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY RATING OF THE WALL IN WHICH IT IS INSTALLED.

2. FIRESTOP DEVICE* - ONE, TWO, THREE, FOUR OR FIVE FIRESTOP DEVICE MODULES GANGED TOGETHER AND SECURED BY MEANS OF INTEGRAL HOOK AND EYE WINDOW ATTACHMENT. EACH FIRESTOP DEVICE MODULE CONSISTS OF A 4 BY 4-5/8 BY 14 IN. (102 BY 118 BY 356 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. SERIES 44 DEVICE MODULES HAVE SPRING LOADED STEEL RETAINER PLATES. FIRESTOP DEVICE MODULES TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. THE SPACE BETWEEN THE FIRESTOP DEVICE MODULE(S) AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1/8 IN. (3.2 MM). IN ROUND OPENINGS, THE SPACE BETWEEN THE FIRESTOP DEVICE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0MM, POINT CONTACT) TO MAX 1 IN. (25 MM). FIRESTOP DEVICE MODULE(S) SECURED IN PLACE BY MEANS OF STEEL WALL BRACKETS INSTALLED WITH GASKET MATERIAL SUPPLIED WITH PRODUCT. STEEL WALL BRACKETS INSTALLED ON BOTH SIDES OF WALL AND SECURED TO OUTERMOST DEVICE MODULES BY MEANS OF STEEL SET SCREWS PROVIDED WITH BRACKETS. WALL BRACKETS SECURED TO EACH SIDE OF WALL THROUGH PREDRILLED HOLES IN BRACKETS BY MEANS OF NOM 1/8 IN. (3.2 MM) TYPE G STEEL SCREWS. EACH FIRESTOP DEVICE MODULE IS TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY. TO ACHIEVE AIR LEAKAGE RATINGS WITH THE SERIES 44 DEVICE MODULE ONLY, INTEGRAL HOOK AND EYE WINDOW ATTACHMENT LOCATIONS ON RIGHT AND LEFT SIDE OF SINGLE INSTALLED PATHWAYS AND GANGED PATHWAY GROUPS MUST BE SEALED USING THE STICKERS PROVIDED WITH DEVICE MODULE(S). AS AN ALTERNATE, THE MULTI-GANG STEEL WALL BRACKETS MAY BE INSTALLED DIRECTLY AGAINST THE STUDS FOR WALLS HAVING 24 IN. (610 MM) CENTER-TO-CENTER STUD SPACING PRIOR TO INSTALLATION OF THE GYPSUM BOARD LAYERS. THE STEEL WALL PLATES SHALL BE SECURED TO THE STUD BY MEANS OF STEEL SCREWS. AFTER INSTALLATION OF THE STEEL WALL PLATES AND FIRESTOP DEVICE MODULES, THE GYPSUM BOARD SHALL BE INSTALLED AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 DESIGN WITH A MAXIMUM 1/8 IN. (3.2 MM) GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD. GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE FILLED WITH GYPSUM JOINT COMPOUND OR FILL MATERIAL (ITEM 4).
   SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44 OR SERIES 44+ FIRE RATED PATHWAY

2A. FIRESTOP DEVICE* - EXTENSION MODULE - (OPTIONAL, NOT SHOWN) - MODULE ATTACHED TO ENDS OF FIRESTOP DEVICE (ITEM 2) TO INCREASE ITS LENGTH TO FACILITATE INSTALLATION IN THICKER WALLS. EACH MODULE CONSISTS OF A 4 BY 4-5/8 BY 6 IN. (102 BY 118 BY 152 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. EXTENSION MODULE TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. WHEN MODULE IS USED, FIRESTOP DEVICE (ITEM 2) AND EXTENSION MODULE SECURED IN PLACE BY MEANS OF STEEL PLATES INSTALLED WITH GASKETING MATERIAL SUPPLIED WITH PRODUCT. STEEL PLATES INSTALLED ON BOTH SIDES OF WALL AND SECURED TO EACH DEVICE OR EXTENSION MODULE BY MEANS OF STEEL SET SCREWS PROVIDED WITH PLATES. FIRESTOP DEVICE AND EXTENSION MODULE ASSEMBLY TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY.
   SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44+ EXTENSION

3. CABLES - WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE, THE LOOSE OR GROUPED CABLES MAY REPRESENT A 0 TO 100 PERCENT VISUAL FILL. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) OR PLENUM-RATED JACKETING AND INSULATION.
   B. MAX 750 KCMIL SINGLE COPPER CONDUCTOR POWER CABLE WITH XLPE JACKET AND INSULATION.
   C. MAX 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
   D. MAX 3/C NO. 2/0 AWG METAL CLAD OR ARMORED CABLE WITH STEEL OR ALUMINUM JACKET.
   E. MAX 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   F. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   G. COAXIAL CABLE WITH FLUORINATED ETHYLENE OR PVC INSULATION AND JACKETING HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   H. OPTICAL FIBER CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION AND HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   I. OPTICAL FIBER RACEWAY+ - MAX 1-1/2 IN. (38 MM) DIAM (OR SMALLER) OPTICAL FIBER RACEWAY ("INNERDUCT") FORMED OF EITHER PVC OR POLYVINYLIDENE FLUORIDE (PVDF) WITH OPTICAL FIBER CABLE FILL. RACEWAYS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA 70).

   FOR THE SERIES 44 FIRESTOP DEVICE AND WHEN ITEM 3A IS USED, THE T RATING IS 1 HR. WHEN ITEM 3B, 3C, 3D OR 3E IS USED, THE T RATING IS 1/2 HR. WHEN ITEM 3F OR 3G IS USED, THE T RATING IS 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3H IS USED, THE T RATING IS 1 OR 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3I IS USED, THE T RATING IS 3/4 HR. WHEN DEVICE IS EMPTY, THE T RATING IS 0 HR.

   FOR THE SERIES 44+ FIRESTOP DEVICE AND WHEN ITEM 3A, 3B, 3C, 3D OR 3E IS USED, THE T RATING IS 1 HR. WHEN ITEM 3F OR 3G IS USED, THE T RATING IS 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3H IS USED, THE T RATING IS 1 AND 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3I IS USED, THE T RATING IS 3/4 HR. WHEN DEVICE IS EMPTY, THE T RATING IS 1-1/2 HR.

   FOR THE SERIES 44 FIRESTOP DEVICE, THE L RATING FOR EACH EMPTY FIRESTOP DEVICE MODULE IS 2.3 CFM AT AMBIENT AND AT 400F. WHEN ITEM 3A IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 7.4 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 5 CFM/FIRESTOP DEVICE MODULE AT 400F. WHEN ITEM 3F OR 3G IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 6.2 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 4.5 CFM/FIRESTOP DEVICE MODULE AT 400F.

   FOR THE SERIES 44+ FIRESTOP DEVICE, THE L RATING FOR EACH EMPTY FIRESTOP DEVICE IS LESS THAN 1 CFM AT AMBIENT AND AT 400 F. WHEN ITEM 3A IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 7.4 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 5 CFM/FIRESTOP DEVICE MODULE AT 400F. WHEN ITEM 3F OR 3G IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 6.7 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND AT 400F.

4. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - (NOT SHOWN) - AS AN ALTERNATE TO GYPSUM JOINT COMPOUND, THE GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE SEALED WITH FILL MATERIAL ON EACH SIDE OF THE WALL ASSEMBLY WHEN FOUR- AND SEVEN-GANG STEEL WALL PLATES ARE INSTALLED DIRECTLY AGAINST THE WOOD OR STEEL STUDS.
   SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT, SPECSEAL PUTTY
   +BEARING THE UL LISTING MARK
   *BEARING THE UL CLASSIFICATION MARK

3 EZ PATH W-L-3306 1 AND 2 HR RATING
NOT TO SCALE

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PROJECT NO: 26031.00

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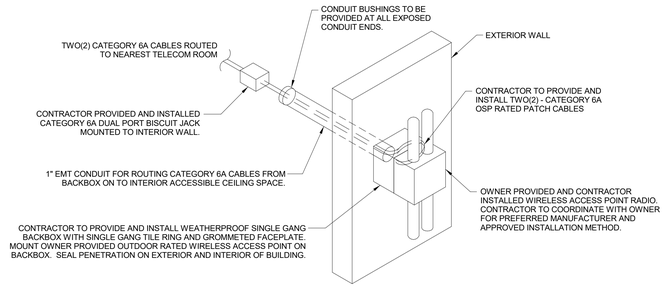
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CONTRACT DOCUMENT
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SHEET TITLE
DETAILS - FIRESTOP

SHEET NUMBER
LV-501

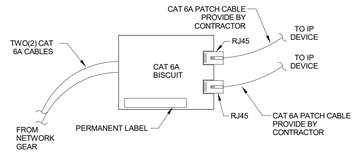
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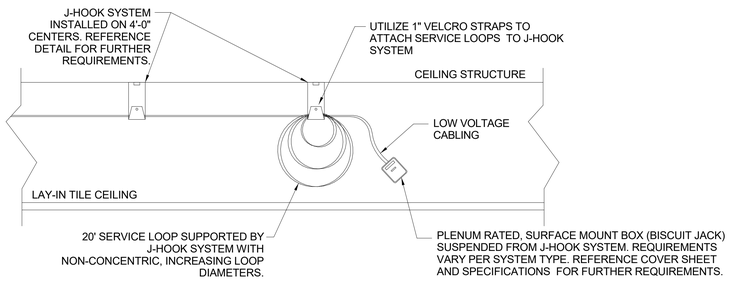
GENERAL NOTES:

A. INSTALL SERVICE LOOP ON J-HOOK SYSTEM IN NEAREST ACCESSIBLE CEILING.

1 EXTERIOR WIRELESS ACCESS POINT
NOT TO SCALE



2 WIRELESS ACCESS POINT TYPICAL ETHERNET BISCUIT
NOT TO SCALE

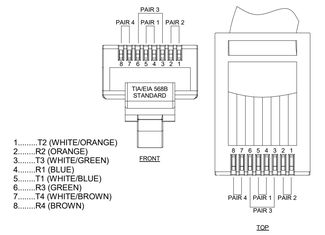


GENERAL NOTES:

A. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6 TYPE FOR ALL VIDEO SURVEILLANCE CAMERA AND PHILIPS TELEMETRY LOCATIONS.

B. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6A TYPE FOR ALL WIRELESS DATA ACCESS POINT LOCATIONS.

1 SUSPENDED BISCUIT JACK
NOT TO SCALE



4 RJ45 JACK TERMINATION
NOT TO SCALE

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SHEET TITLE

DETAILS - INSTALLATION

SHEET NUMBER

LV-502

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