GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

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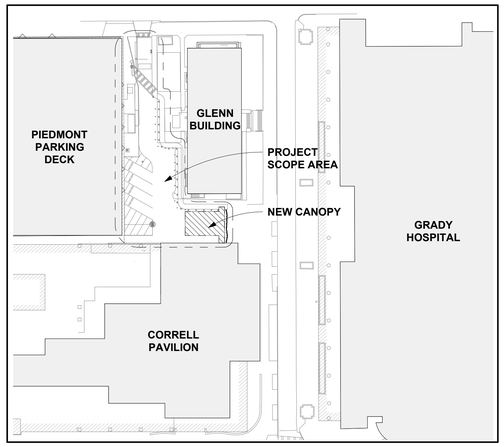
ARCHITECTURAL DRAWING INDEX

SHEET NUMBER	SHEET NAME	10/24/2025 CONTRACT DOCUMENTS
01 GENERAL INFORMATION		
G000	COVER SHEET	•
G001	GENERAL INFORMATION	•
G002	SPECIFICATIONS	•
06 ARCHITECTURAL		
A100	CORRELL PAVILION - MAIN LEVEL - REFERENCE & LIFE SAFETY PLANS	•
A130	CORRELL PAVILION - PLAN AND RCP	•
A131	ELEVATIONS AND SECTIONS	•

LOCATION MAP

PROJECT SITE

KEY PLAN



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
ATLANTA, GA 30303
GRADY PM - TYRONE WILLIAMS

PROJECT ADDRESS: 80 GILMER ST. SE, ATLANTA, GA 30303

BUILDING AREA

Occupancy Type	Area

PROJECT TYPE:

A. APPLICABLE CODES

BUILDING: INTERNATIONAL BUILDING CODE, 2018 Edition, WITH GEORGIA AMENDMENTS (2020, 2022, 2024, 2025)

MECHANICAL: INTERNATIONAL MECHANICAL CODE, 2018 Edition, WITH GEORGIA AMENDMENTS (2020, 2024)

PLUMBING: INTERNATIONAL PLUMBING CODE, 2018 Edition, WITH GEORGIA AMENDMENTS (2020, 2022, 2023, 2024)

GAS: INTERNATIONAL FUEL GAS CODE, 2018 Edition, WITH GEORGIA AMENDMENTS (2020, 2022)

ELECTRICAL: NATIONAL ELECTRIC CODE, 2023 Edition, NO GEORGIA AMENDMENTS

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 AVE., SUITE 3900
ATLANTA, GA 30303

		REFERENCES
C. OCCUPANCY CLASSIFICATION GROUP	GROUP B (EXISTING BUILDING)	IBC, SECTION 302 NFPA 101 CHAPTER 38
D. TYPE OF CONSTRUCTION	TYPE IA (332) (EXISTING BUILDING)	IBC, TABLE 601
E. SPRINKLERED / UNSPRINKLERED	FULLY SPRINKLED (EXISTING)	NFPA 13
F. ALLOWABLE HEIGHT 1. Allowable Building Height 2. Actual Building Height	N/A	IBC, TABLE 504.3
G. ALLOWABLE AREA 1. Area Allowed 2. Area Modifications Allowed	N/A	IBC, TABLE 506.2 IBC, SECTION 506.2.3
H. OCCUPANT SEPARATION	N/A	IBC, SECTION 508.4
I. TENANT SEPARATION	N/A	

PROJECT SUMMARY (ARCHITECTURAL SCOPE)

THE ARCHITECTURAL SCOPE OF THIS PROJECT OUTLINES THE AREA AND GENERAL DESIGN REQUIREMENTS FOR A PREMANUFACTURED CANOPY THAT WILL SERVE AS COVERAGE FOR AMBULANCES DROPPING OFF AND PICKING UP PATIENTS GOING TO THE CORRELL FACILITY, THE INSTALLATION OF A DECORATIVE SCREEN FOR THE PURPOSES OF PROVIDING A PRIVACY BARRIER FOR TO PATIENTS COMING/GOING FROM THE FACILITY, AS WELL AS MINOR RENOVATION/DEMOLITION WORK ASSOCIATED WITH TWO DOORS BEING REPLACED AS PART OF THE PROJECT. THE SCOPE OF WORK FOR CIVIL/LANDSCAPING, MEP, AND LOW VOLTAGE ARE COVERED UNDER SEPARATE SETS OF DOCUMENTS INCLUDED AS PART OF THIS PROJECT. MEP AND LOW VOLTAGE SCOPE COVERS ELECTRICAL NEEDS FOR LIGHTING AND DOOR OPERATORS, LOW VOLTAGE SCOPE COVERS SECURITY SYSTEM NEEDS AND ACCESS CONTROL. CIVIL AND LANDSCAPING COVERS ALL OTHER ASPECTS OF THIS PROJECT. STRUCTURAL DESIGN COVERS THE NEEDS OF FOOTERS AND SUPPORTS FOR THE DECORATIVE SCREEN. ALL CANOPY DESIGN IS DELEGATED AND TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE MANUFACTURER. ALL DOOR CHANGES WILL MATCH THE EXISTING BEING REMOVED WITH THE ADDITION OF AUTOMATIC HARDWARE FOR EASE OF STAFF/PATIENT ENTRY/EGRSS.

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GRADY HEALTH SYSTEM
GRADY HOSPITAL - CORRELL AMBULANCE CANOPY
80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

STATE OF GEORGIA
MARY SUE LINDEMAN
10-24-2025
CERTIFICATE NO. 040989
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
COVER SHEET

SHEET NUMBER
G000

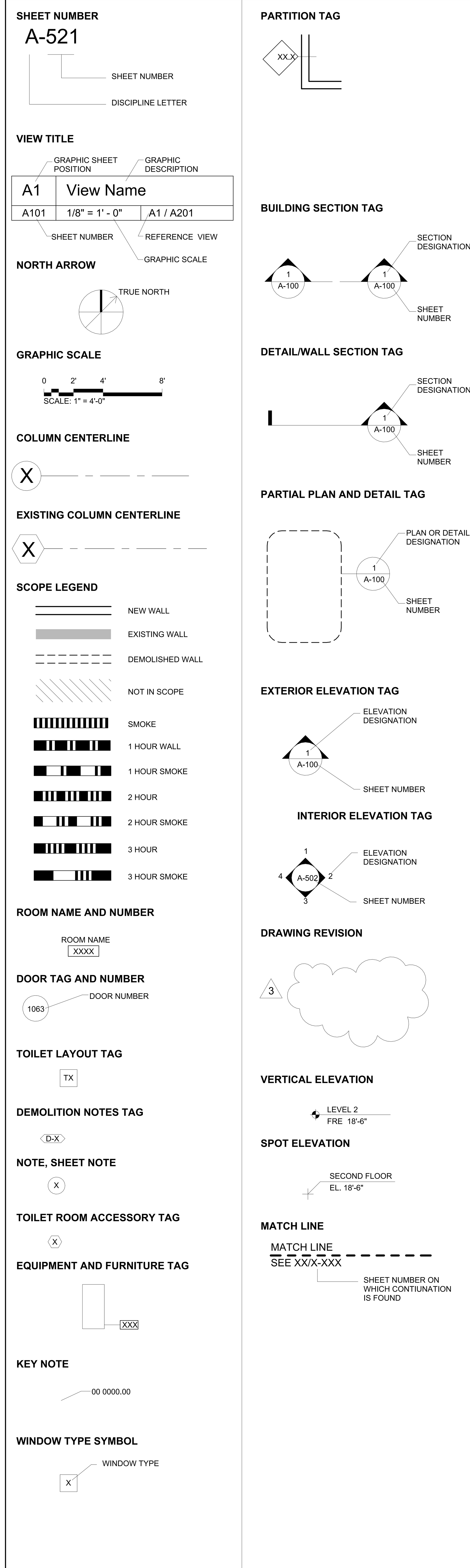
MASTER KEYNOTE LEGEND

042000.B02
042000.B04
042000.B08
042000.B43
042000.C02
042000.C10
042000.C11
042000.C21
042000.C23
042000.D03
042000.D04
042000.D05
051200.A03
051200.A05
052100.A01
053100.B01
053100.D01
054000.E03
061000.D01
061600.B15
064116
064116.B02
064116.B03
064116.E01
066500.A00
066500.A03
072100.B06
072100.C01
072100.D01
072419.A00
072726.A02
076500.B02
076500.C02
076500.D02
078443.A00
079200.A00
079200.D01
079200.L01
081113.A00
081113.C05
084113.A00
092216.A00
092216.C01
092216.C06
092216.C07
092216.C09
092900.B05
092900.C02
092900.C05
092900.D01

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



A14 SYMBOLS LEGEND

G001 N.T.S

CDH ARCHITECTURE

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GRADY HEALTH SYSTEM

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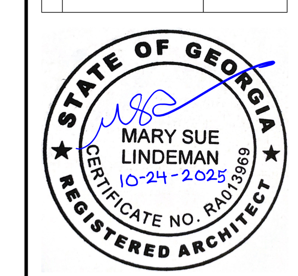
80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025



CONTRACT DOCUMENT ISSUED FOR CONSTRUCTION

SHEET TITLE

GENERAL INFORMATION

SHEET NUMBER

G001

SECTION 013533.99 - INFECTION CONTROL PROCEDURES
1.1 SUMMARY
A. This Section includes:
1. New hospital interior work.
2. Hospital interior renovation.
1.2 REFERENCES
A. Owner's Infection Control Risk Assessment (ICRA) guide.
1.3 ADMINISTRATIVE REQUIREMENTS
A. Facility Infection Control Staff: Prior to start of construction arrange a pre-construction meeting with the facility Infection Control department or team.
B. Stopping Of The Work: The General Contractor acknowledges that should a potential or actual hazardous infection control deficiency exist, the person designated by the Owner to be responsible for Facility Infection Control may stop the work in the area encompassed by this Contract. The Architect shall immediately be informed of the time of work stoppage.
1.4 SUBMITTALS
A. Dust and HVAC Control Plan: Submit coordination drawing and narrative that indicates the dust and HVAC control measures proposed for use.
1.5 MATERIALS
A. Dust-Control Adhesive-Surface Walk-off Mats: Provide mats minimum 36 by 46 inches (91 by 116 cm). Provide with adhesive surface.
B. Polyethylene Barrier Sheet: Reinforced, fire-resistive sheet, 10-mil (0.25-mm) minimum thickness, with flame-spread rating of 15 or less per ASTM E84 and passing NFPA 701 Test Method 2.
C. High-Efficiency Particulate Air (HEPA) Filter Vacuums and Fan Units: Filter vacuum system, capable of filtration rates of 300-800 cu. ft./min., rated at 99.97% capture of 0.3 microns i ncluding pollen, mold spores and dust particles. HEPA filters shall be fire-resistant and capable of withstanding a minimum of 90% relative humidity determined between 70 and 100 degrees Fahrenheit. Provide ASHRAE 85 or other prefilter to extend the useful life of the HEPA. Provide both primary and secondary filtration units. Exhaust hoses shall be heavy-duty, flexible, steel reinforced. Vacuums and fans shall be certified prior to beginning the project.
D. Temporary Partitions
1. Modular Partitions: Manufactured modular opaque partitions designed for sound attenuation that meet the requirements of ICRA 2.0, Class V. See www.ashe.org/icra2.
2. Drywall Partitions
a. Isolate area with 6-mil polyethylene, create negative pressure and then construct dustproof partitions with gypsum wallboard with joints taped and surfaces painted on occupied side, and minimum 1/2 inch (12.7 mm), fire-retardant, plywood on construction operations side.
b. Insulate partitions with 3-1/2 inch, R-13, batt insulation to control noise transmission to occupied areas.
3. Where fire-resistance-rated temporary partitions are indicated or are required by authorities having jurisdiction, construct partitions according to the rated assemblies.
E. Use "cube system" for above ceiling work when one tile is removed at a time.
1.6 APPLICATION
A. Prior to commencing work, isolate the HVAC system in the area where work is to be performed according to approved submitted coordination drawings.
B. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity.
C. Dust-Control Adhesive-Surface Walk-off Mats: Provide at all interior transitions from the construction area to occupied building areas. Mats shall be changed as often as required to maintain clean work areas directly outside construction areas at all times.
D. Owner Monitoring: Facility Infection Control Staff may monitor for dust and airborne disease, as appropriate, in the vicinity of the construction work and require the Contractor to take corrective action immediately if the baseline conditions levels are exceeded.
1.7 CLEANING
A. Vacuum and wet mop all transition areas from construction to the occupied building at the end of each workday. Vacuum shall utilize HEPA filtration. Maintain surrounding area frequently. Remove debris as it is created.
B. Debris Transport: Transport debris to outside the construction area in containers with tightly fitting lids. Do not haul debris through patient-care areas without prior approval of the Owner. If approved, debris shall be hauled in enclosed dust-proof containers or wrapped in plastic and sealed with duct tape. Wipe down exterior of containers with damp rags to remove dust.
C. Equipment and Tool Transport: All equipment, tools, materials, etc, transported through occupied areas shall be made free from dust and moisture by vacuuming and wipe-down.
D. Final Cleanup:
1. Upon completion of the project, or as work progresses, remove all construction debris from above ceiling, vertical shafts and utility chases that have been part of the construction.
2. Perform HEPA vacuum cleaning of all surfaces in the construction area. This also includes wall and ceiling cavities, walls, ceilings, cabinets, furniture (built-in or free-standing), partitions, and flooring.
3. All new air ducts shall be cleaned prior to final inspection.
4. Run HEPA fan units until particulate count is equivalent to surrounding area outside the construction zone. Use particle counter within every room of construction zone.
5. Activate normal HVAC system operations at completion of project.

END OF SECTION 013533.99

SECTION 024119 - SELECTIVE DEMOLITION
1.1 SUMMARY
A. Demolition and removal of selected portions of exterior or interior of building or structure and site elements.
B. Removal and salvage of existing items for delivery to Owner and removal of existing items for reinstallation.
C. Unless otherwise indicated, demolition waste becomes property of Contractor.
D. Arrange selective demolition schedule so as not to interfere with Owner's operations.
1.2 INFORMATIONAL SUBMITTALS
A. Qualification Statements: For refrigerant recovery technician.
B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
C. Warranties: Documentation indicating that existing warranties are still in effect after completion of selective demolition.
1.3 FIELD CONDITIONS
A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
C. Hazardous Materials: [**None expected**] [**Removed by Owner**].
D. Verify that utilities have been disconnected and capped before starting selective demolition operations.
1.4 UTILITY SERVICES AND BUILDING SYSTEMS
A. Maintain fire-protection facilities in service during selective demolition operations.
B. Owner will arrange to shut off indicated utilities when requested by Contractor.
1.5 SALVAGE/REINSTALL
A. Removed and Salvaged Items: [**See Drawings**]
B. Removed and Reinstalled Items: [**See Drawings**]
1.6 SELECTIVE DEMOLITION
A. Maintain fire watch during and for at least 12 hours after flame-cutting operations.
B. Site Access and Temporary Controls: Ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
C. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
D. Burning: Do not burn demolished materials.

END OF SECTION 024119

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES
1.1 SUMMARY
A. Section Includes:
1. Interior standard steel doors and frames.
2. Exterior standard steel doors and frames.
1.2 SUBMITTALS
A. Schedule of doors and frames.
B. Qualification Data: For door inspector.
C. Fire-Rated Door Inspector Qualifications: Inspector for field quality-control inspections of fire-rated door assemblies is to meet the qualifications set forth in NFPA 80, Section 5.2.3.1 and the following:
1.3 PERFORMANCE REQUIREMENTS
A. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings and temperature-rise limits indicated on Drawings, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
1. Temperature-Rise Limit: At vertical exit enclosures and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
B. Fire-Rated, Borrowed-Lite Assemblies: Assemblies complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing in accordance with NFPA 257 or UL 9.
1.4 INTERIOR STANDARD STEEL DOORS AND FRAMES
1. Frames:
a. Materials: **Uncoated** steel sheet, minimum thickness of 0.053 inch (1.3 mm) (16 gage).
b. Construction: **Full profile welded**
2. Exposed Finish: **Prime**
1.5 FABRICATION
A. Hardware Preparation: Factory prepare in accordance with ANSI/SDI A250.6, the Door Hardware Schedule on Drawings, and templates.
B. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with mitered hairline joints.
1.6 INSTALLATION
A. Install hollow-metal doors and frames plumb, rigid, properly aligned, and securely fastened in place. Comply with approved Shop Drawings and with manufacturer's written instructions.

END OF SECTION 081113

SECTION 081416 - FLUSH WOOD DOORS

1.1 SUMMARY
A. Section Includes:
1. Solid-core five-ply flush wood doors.
2. Fire-rated wood door frames.
3. Light frames and louvers.
B. Shop Drawings: Indicate location, size, and hand of each door; elevation of each type of door; construction details not covered in Product Data; and the following:
1. Door schedule indicating door **and frame** location, type, size, fire protection rating, and swing.
2. Door elevations, dimension and locations of hardware, lite and louver cutouts, and glazing thicknesses.
3. Details of frame for each frame type, including dimensions and profile.
4. Details of electrical raceway and preparation for electrified hardware, access control systems, and security systems.
5. Dimensions and locations of blocking for hardware attachment.
6. Dimensions and locations of mortises and holes for hardware.
7. Clearances and undercuts.
8. Requirements for veneer matching.
9. Doors to be factory **finished** and application requirements.
C. Field quality-control reports.
D. Sample Warranty: For special warranty.
1.2 QUALITY ASSURANCE
1. Warranty Period for Solid-Core Exterior Doors: **Five** years from date of Substantial Completion.
2. Warranty Period for Solid-Core Interior Doors: Life of installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS
A. Fire-Rated Wood Door and Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated on Drawings, based on testing at positive pressure in accordance with **NFPA 252**.
2.2 FLUSH WOOD DOORS, GENERAL
A. Quality Standard: In addition to requirements specified, comply with AWI/AWMAC/WI's "Architectural Woodwork Standards" and ANSI/WDMA I.S. 1A.

2.3 SOLID-CORE FIVE-PLY FLUSH WOOD VENEER-FACED DOORS AND TRANSOM PANELS FOR TRANSPARENT FINISH
A. Interior Doors, Solid-Core Five-Ply Veneer-Faced :
1. Performance Grade: ANSI/WDMA I.S. 1A **Heavy Duty**.
2. Architectural Woodwork Standards Quality Grade: **Premium**
3. Faces: Single-ply wood veneer not less than **1/50 inch (0.508 mm)** thick.
a. Species: **White oak**
b. Cut: **Plain sliced (flat sliced)**
c. Match between Veneer Leaves: **Book** match.
d. Assembly of Veneer Leaves on Door Faces: **Center-balance** match.
e. Mineral-Core Doors: At hinge stiles, provide laminated-edge construction with improved screw-holding capability and split resistance. Comply with specified requirements for exposed edges.
1) Screw-Holding Capability: [**550 lbf (2440 N)** in accordance with WDMA T.M. 10.
4. Core for Non-Fire-Rated Doors:
a. WDMA I.S. 10 structural composite lumber.
5. Core for Fire-Rated Doors: As required to achieve fire-protection rating indicated on Drawings.
a. Blocking for Mineral-Core Doors: Provide composite blocking with improved screw-holding capability approved for use in doors of fire-protection ratings indicated
6. Construction: Five plies, hot-pressed bonded (vertical and horizontal edging is bonded to core), with entire unit abrasive planed before veneering.
2.4 FABRICATION
A. Factory machine doors for hardware that is not surface applied.
1. Locate hardware to comply with DHI-WDHS-3.
2. Comply with final hardware schedules, door frame Shop Drawings, ANSI/BHMA-156.115-W, and hardware templates.
2.5 FACTORY FINISHING
A. Transparent Finish:
1. Architectural Woodwork Standards Grade: **Premium**
a. System-5, Varnish, Conversion.
b. System-9, UV Curable, Acrylated Epoxy, Polyester or Urethane.
c. System-10, UV Curable, Water Based.
d. System-11, Polyurethane, Catalyzed.

PART 3 - EXECUTION

3.1 INSTALLATION
A. Install frames level, plumb, true, and straight.
1. Install fire-rated doors and frames in accordance with NFPA 80.
2. Install smoke- and draft-control doors in accordance with NFPA 105.
B. Job-Fitted Doors:
1. Align and fit doors in frames with uniform clearances and bevels as indicated below.
2. Machine doors for hardware.

END OF SECTION 081416

SECTION 087100 DOOR HARDWARE

PART 1 - GENERAL

1. RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1. SUMMARY
A. This Section includes the following:
1. Commercial Mechanical door hardware, accessories and/or cylinders for the following:
a. Swinging doors.
b. Sliding/Folding doors.
c. Overhead/Roll-up doors.
B. Related Sections include the following:
1. Division 08 Section "Hollow Metal Doors and Frames"
2. Division 08 Section "Flush Wood Doors"
3. Division 08 Section "Aluminum-Framed Entrances and Storefronts"
C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.
1. Permanent cores to be installed by Owner.

1. REFERENCE STANDARDS
A. This Section references the following Codes/Standards:
1. American National Standards Institute (ANSI) (Current Editions)
a. ANSI A117.1 – Accessible and Usable Buildings and Facilities
b. ANSI A156 (All related Sections)
2. Builders Hardware Manufacturers Association (BHMA) (Current Editions)
a. ANSI/BHMA A156.XX (All related Sections)
3. Door and Hardware Institute (DHI)
a. DHI/ANSI A115.IG – Installation Guide for Doors and Hardware.
b. DHI Sequence and Format for the Hardware Schedule.
c. DHI Recommended Locations for Builders and Architectural Hardware.
4. National Fire Protection Association (NFPA) (Current Editions)
a. NFPA 80 – Fire Doors and Windows
b. NFPA 101 – Life Safety Code
5. International Building Code (IBC) (Current Editions)

1. SUBMITTALS
A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
B. Shop Drawings: Details of electrified door hardware, indicating the following:
1. Wiring Diagrams: Power, signal, and control wiring. Include the following:
a. System schematic.
b. Point-to-point wiring diagram.
c. Riser diagram.
d. Elevation of each door.
2. Detail interface between electrified door hardware, fire alarm, access control, security and building control systems or other systems as may apply.
3. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.
C. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets.
1. Samples will be returned to Contractor. Units that are acceptable through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.
D. Product Certificates: For electrified door hardware, signed by product manufacturer.
1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.
E. Qualification Data: For Installer and Architectural Hardware Consultant.
F. Product Test Reports: If requested by the Architect provide reports based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for locks, latches, delayed-egress locks and closers.
G. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.
H. Warranty: Special warranty specified in this Section.
I. Other Action Submittals:
1. Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
a. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule." Double space entries, and number and date each page.
b. Content: Include the following information:
1. Identification number, location, hand, fire rating, and material of each door and frame.
2. Type, style, function, size, quantity, and finish of each door hardware item. Include description and function of each lockset and exit device.
3. Complete designations of every item required for each door or opening including name and manufacturer.
4. Fastenings and other pertinent information.
5. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
6. Explanation of abbreviations, symbols, and codes contained in schedule.
7. Mounting locations for door hardware.
8. Door and frame sizes and materials.
9. Description of each electrified door hardware function, if applicable, including location, sequence of operation, and interface with other building control systems.
a. Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter, authorized person wants to exit, unauthorized person wants to enter, unauthorized person wants to exit.
10) List of related door devices specified in other Sections for each door and frame.
11) Product Cut Sheets for all material scheduled.
c. Submittal Sequence: Submit the final door hardware sets at earliest possible date particularly where approval of the door hardware sets must precede fabrication of other work that is critical in Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the door hardware sets.
2. Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant (AHC), detailing Owner's final keying instructions for locks as determined at Key Conference. Include schematic keying diagram and index each key set to unique door designations.

1. QUALITY ASSURANCE
A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.
1. Installer's responsibilities include supplying and installing door hardware and providing a qualified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
2. Installer shall have warehousing facilities in Project's vicinity.
3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
4. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
B. Architectural Hardware Consultant (AHC) Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant (AHC) and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for the Project.
1. Electrified Door Hardware Consultant Qualifications: A qualified Architectural Hardware Consultant (AHC) who is experienced in providing consulting services for electrified door hardware installations.
C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
D. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
1. Test Pressure: After 5 minutes into the test, neutral pressure level in furnace shall be established at 40 inches or less above the sill.
E. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
F. Keying Conference: Conduct conference at a location to comply with requirements in Division 01 Section "Project Management and Coordination." Key Meeting to be conducted by the Stanley End User Consultant.
G. Pre-installation Conference: If required by the Architect, conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures related to electrified door hardware including, but not limited to, the following:
1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
2. Review sequence of operation for each type of electrified door hardware.
3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review required testing, inspecting, and certifying procedures.

SECTION CONTINUED ON NEXT COLUMN

1. DELIVERY, STORAGE, AND HANDLING
A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.
C. Deliver keys and permanent cores, if applicable, to Owner by hand delivery, registered mail or overnight package service.

1. COORDINATION
A. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
B. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, access control system, security system and building control system as applicable for this project.
C. Existing Openings: Where new hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide for proper operation.

1. WARRANTY
A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of operators and door hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
2. Warranty Period: 3 years from date of Substantial Completion, except as follows:
a. Bored Locksets: 7 years from date of Substantial Completion.
b. Mortise Locksets: 10 years from date of Substantial Completion.
c. Exit Devices: 5 years from date of Substantial Completion.
d. Manual Closers: 10 years from date of Substantial Completion.

1. MAINTENANCE SERVICE
A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
B. Maintenance Service: Beginning at Substantial Completion, provide 6 months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation. Provide parts and supplies same as those used in the manufacture and installation of original products.

1. EXTRA MATERIALS
A. Furnish full-size units of door hardware described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Refer to Hardware Sets indicating "Extra Material" in Part 3 "Door Hardware Sets" Article.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE
A. General: Provide door hardware for each door to comply with requirements in this Section and door hardware sets indicated in Part 3 "Door Hardware Sets" Article.
1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Sets" Article. Products are identified by using door hardware designations, as follows:
1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required provide as specified.
2. Manufacturers' names are abbreviated in Part 3 "Door Hardware Sets" Article.
C. In other Part 2 articles where titles below introduce lists of approved Manufacturers, the following requirements apply to product selection:
1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

2.2 HINGES, GENERAL
A. Quantity: Provide the following, unless otherwise indicated:
1. Two Hinges: For doors with heights up to 60 inches.
2. Three Hinges: For doors with heights 61 to 90 inches.
3. Four Hinges: For doors with heights 91 to 120 inches.
4. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
B. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
C. Hinge Weight: Unless otherwise indicated, provide the following:
1. Entrance Doors: Heavy weight antifriction-bearing hinges.
2. Doors with Closers: Standard weight antifriction-bearing hinges.
3. Interior Doors: Standard weight hinges. Provide antifriction-bearing as specified in Part 3 "Door Hardware Sets" Article.
D. Hinge Base Metal: Unless otherwise indicated, provide the following:
1. Exterior Hinges: Stainless steel, with stainless-steel pin or brass, with stainless-steel pin body and brass protruding heads as specified in Part 3 "Door Hardware Sets" Article.
2. Interior Hinges: Brass, with stainless-steel pin body and brass protruding heads, Steel, with steel pin or Stainless steel, with stainless-steel pin as specified in Part 3 "Door Hardware Sets" Article.
3. Hinges for Fire-Rated Assemblies: Steel, with steel pin, Stainless steel, with stainless-steel pin as specified in Part 3 "Door Hardware Sets" Article.
E. Hinge Options: Where indicated in door hardware sets or on Drawings:
1. Hospital Tips: Slope ends of hinge barrel.
2. Decorator Tips: Oval, Ball, Steeple, Urn, Acorn as specified in Part 3 "Door Hardware Sets" Article.
3. Safety Stud: Designed for stud in one leaf to engage hole in opposing leaf.
4. Maximum Security Pin: Fix pin in hinge barrel after it is inserted.
5. Non-removable Pins (NRP): Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for outswinging exterior doors and outswinging corridor doors with locks.
6. Corners: Square.
F. Electrified Functions for Hinges: Comply with the following:
1. Power Transfer: Concealed PTFE-jacketed wires, secured at each leaf and continuous through hinge knuckle.
2. Monitoring: Concealed electrical monitoring switch.
3. Power Transfer and Monitoring: Concealed PTFE-jacketed wires, secured at each leaf and continuous through hinge knuckle, and with concealed electrical monitoring switch.
G. Fasteners: Comply with the following:
1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
2. Wood Screws: For wood doors and frames.
3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
4. Screws: Phillips flat-head machine screws (drilled and tapped holes) for metal doors and wood screws for wood doors and frames (Pilot holes required for wood doors and/or frames). For NRP hinges finish screw heads to match surface of hinges.

2.3 HINGES
A. Butts and Hinges: BHMA A156.1. Listed under Category A in BHMA's "Certified Product Directory."
B. Template Hinge Dimensions: BHMA A156.7.
C. Approved Manufacturers:
1. Hager Companies.
2. McKinney Products Company.
3. Stanley Hardware.

2.4 SPRING HINGES
A. Self-Closing Hinges: BHMA A156.17. Listed under Category A in BHMA's "Certified Product Directory."
B. Approved Manufacturers:
1. Hager Companies.
2. McKinney Products Company.
3. Stanley Hardware.

2.5 PIVOTS AND PIVOT HINGES
A. Pivots: BHMA A156.4. Listed under Category C in BHMA's "Certified Product Directory."
B. Self-Closing Pivot Hinges: BHMA A156.17. Listed under Category A in BHMA's "Certified Product Directory."
C. Approved Manufacturers:
1. McKinney Products Company.
2. Rixson Specialty Door Controls.
3. Stanley Hardware.

2.6 CONTINUOUS HINGES
A. Standard: BHMA A156.26. Listed under Category N in BHMA's "Certified Product Directory."
B. General: Minimum 0.120-inch thick, hinge leaves with minimum overall width of 4 inches fabricated to full height of door and frame as recommended by the Manufacturer.
1. Fire Pins: Steel pins to hold labeled fire doors in place if required by tested listing.
C. Continuous, Pin & Barrel Hinges: Hinge with knuckles formed around a pin that extends entire length of hinge.
1. Base Metal for Exterior Hinges: Stainless steel.
2. Base Metal for Interior Hinges: Stainless steel or steel.
3. Base Metal for Hinges for Fire-Rated Assemblies: Stainless steel or steel.
4. Approved Manufacturers:
a. Markar Architectural Products, Inc.
b. Select Products.
c. Stanley Hardware.
d. Zero International.
D. Continuous, Geared Hinges: Extruded-aluminum, geared hinge leaves joined by a continuous extruded-aluminum channel cap with concealed, self-lubricating thrust bearings.
1. Approved Manufacturers:
a. Markar Architectural Products, Inc.
b. Select Products.
c. Stanley Hardware.
d. Zero International.

2.7 LOCKS AND LATCHES, GENERAL
A. Accessibility Requirements: Where indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." and ANSI A117.1.
1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
B. Latches and Locks for Means of Egress Doors: Comply with NFPA 101. Latches shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.
C. Electrified Locking Devices: BHMA A156.25.
1. Provide as specified in Part 3 "Door Hardware Sets" Article.
D. Lock Trim:
1. Levers: Provide as specified in Part 3 "Door Hardware Sets" Article.
2. Escutcheons (Roses): Provide as specified in Part 3 "Door Hardware Sets" Article.
3. Dummy Trim: Match lock trim and escutcheons.
4. Lockset Designs: Provide as specified in Part 3 "Door Hardware Sets" Article.
E. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors and as follows:
1. Bored Locks: Minimum 1/2-inch latchbolt throw.
2. Mortise Locks: Minimum 3/4-inch latchbolt throw.
3. Deadbolts: Minimum 1-inch bolt throw.
F. Backset: 2-3/4 inches, unless otherwise indicated.
G. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, and as follows:
1. Strikes for Bored Locks and Latches: BHMA A156.2.
2. Strikes for Mortise Locks and Latches: BHMA A156.13.
3. Strikes for Interconnected Locks and Latches: BHMA A156.12.
4. Strikes for Auxiliary Deadlocks: BHMA A156.5.
5. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
6. Extended Lip Strikes: For locks used on frames requiring the additional length to protect frame and trim.
7. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
2.8 MECHANICAL LOCKS AND LATCHES
A. Lock Functions: Function numbers and descriptions indicated in door hardware sets comply with the following:
1. Bored Locks: BHMA A156.2.
2. Mortise Locks: BHMA A156.13.
3. Interconnected Locks: BHMA A156.12.
B. Bored Locks: BHMA A156.2, Listed under Category F in BHMA's "Certified Product Directory."
1. Approved Manufacturers:
a. Best Access Systems. (BASIS OF DESIGN)
C. Mortise Locks: Stamped steel case with steel or brass parts; BHMA A156.13. Listed under Category F in BHMA's "Certified Product Directory."
1. Approved Manufacturers:
a. Best Access Systems. (BASIS OF DESIGN)
b. Sargent Manufacturing Company.
2.9 AUXILIARY LOCKS AND LATCHES
A. Auxiliary Locks: BHMA A156.5 Listed under Category E in BHMA's "Certified Product Directory."
1. Approved Manufacturers:
a. Accurate Lock & Hardware Co.
b. Adams Rite Manufacturing Co.
c. Best Access Systems. (BASIS OF DESIGN)
B. Push-Button Combination Locks: BHMA A156.5.
1. Approved Manufacturers:
a. Kaba Ilco Inc.

2.10 ELECTROMAGNETIC LOCKS
A. General: BHMA A156.23; electrically powered, of strength and configuration indicated; with electromagnet attached to frame and armature plate attached to door or as required for proper application. Listed under Category E in BHMA's "Certified Product Directory."
1. Type: Full exterior or full interior, as required by application indicated.
2. Strength Ranking: Provide as specified in Part 3 "Door Hardware Sets" Article. .
3. Residual Magnetism: Not more than 0 lbf to separate door from magnet.
B. Delayed-Egress Locks: BHMA A156.24. Listed under Category G in BHMA's "Certified Product Directory."
1. Means of Egress Doors: Lock releases within 15 seconds after applying a force not more than 15 lbf for not more than 3 seconds, as required by NFPA 101.
2. Security Grade: Activated from secure side of door by initiating device.
3. Movement Grade: Activated by door movement as initiating device.
C. Approved Manufacturers:
1. Rutherford Controls Int'l. Corp.
2. Securitron.

2.11 ELECTROMECHANICAL LOCKS
A. General: Grade 1 unless Grade 2 is indicated for type of lock indicated; motor or solenoid driven.
B. Approved Manufacturers:
1. Best Access Systems. (BASIS OF DESIGN)
2. Sargent Manufacturing Company.

2.12 SELF-CONTAINED ELECTRONIC LOCKS
A. General: Internal, battery-powered, self-contained electronic locks; consisting of complete lockset, motor-driven lock mechanism, and actuating device; enclosed in zinc-dichromate-plated, wrought-steel case. Provide key override, low-battery detection and warning, LED status indicators, and ability to program at the lock; type and function indicated.
1. Type: Bored or Mortised as specified in Part 3 "Door Hardware Sets" Article.
2. Actuating Device: Provide as specified in Part 3 "Door Hardware Sets" Article.
a. Card: Manufacturer's standard.
3. Faceplate Material: Provide as specified in Part 3 "Door Hardware Sets" Article.
4. Trim: Provide as specified in Part 3 "Door Hardware Sets" Article.
B. Accessory: Card encoder and software.
C. Approved Manufacturers:
1. Best Access Systems. (BASIS OF DESIGN)

2.13 DOOR BOLTS
A. Bolt Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
1. Dutch-Door Bolts: Minimum 3/4-inch throw.
2. Mortise Flush Bolts: Minimum 3/4-inch throw.
B. Dustproof Strikes: BHMA A156.16, Grade 1.
C. Surface Bolts: BHMA A156.16, Grade 1 unless Grade 2 is indicated.
1. Flush Bolt Heads: Minimum of 1/2-inch diameter rods of brass, bronze, or stainless steel with minimum 12-inch long rod for doors up to 84 inches in height. Provide longer rods as necessary for doors exceeding 84 inches.
2. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco.
D. Manual Flush Bolts: BHMA A156.16, Grade 1 unless Grade 2 is indicated designed for mortising into door edge.
1. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco.
E. Automatic and Self-Latching Flush Bolts: BHMA A156.3, Grade 1 unless Grade 2 is indicated designed for mortising into door edge.
1. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco

2.14 EXIT DEVICES
A. Exit Devices: BHMA A156.3, Grade 1 unless Grade 2 is indicated. Listed under Category G in BHMA's "Certified Product Directory."
B. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." and ANSI A117.1.
1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
C. Exit Devices for Means of Egress Doors: Comply with NFPA 101. Exit devices shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.
D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
E. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
F. Removable Mullions: BHMA A156.3.
G. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252 Mullions shall be used only with exit devices for which they have been tested.
H. Electrified Exit Devices (ELR): Electric Latch Retraction/Electric Dogging shall be by motorized retraction only (PHI MRL). Solenoid retraction will not be accepted.
I. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
1. Operation: Rigid or movable as specified in Part 3 "Door Hardware Sets" Article.
J. Outside Trim: Material and finish to match locksets, unless otherwise indicated.
1. Match design for locksets and latchsets, unless otherwise indicated.
K. Through Bolts: For exit devices and trim on metal doors, non-fire-rated wood doors and fire-rated wood doors as specified in Part 3 "Door Hardware Sets" Article.
L. Electronic Exit Bars: Non-latching electronic releasing device, activated by an adjustable capacitance sensor, with no moving parts; listed and labeled as panic exit hardware. Fabricate bar from extruded aluminum, and provide door and frame transfer device and 16 feet of cord to route wiring off the door frame.
M. Approved Manufacturers:
1. Precision Hardware, Inc. (BASIS OF DESIGN)
2. Sargent Manufacturing Company.

2.15 LOCK CYLINDERS
A. Standard Lock Cylinders: BHMA A156.5, Grade 1.
B. High-Security Lock Cylinders: BHMA A156.30, Grade 1.
C. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:
1. Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders.
D. Construction Keying: Comply with the following:
1. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.
a. Replace construction cores with permanent cores as directed by Owner or Architect.
E. Manufacturer:
F. Approved Manufacturer:
1. Best Access Systems. –CORMAX 7 Pin to match existing key system - No Substitution

2.16 KEYING
A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference.
B. Keys: Nickel silver.
1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation.
a. Notation: As specified and determined at keying conference.

2.17 ELECTRIC STRIKES
A. Standard: BHMA A156.31, Grade 1.
B. General: Use fail-secure electric strikes with fire-rated devices.
C. Approved Manufacturers:
1. Folger Adam Security Inc.
2. HES, Inc.

2.18 OPERATING TRIM
A. Standard: BHMA A156.6 and as illustrated on Drawings.
B. Materials: Fabricate from aluminum, brass, bronze or stainless steel, unless otherwise indicated in Part 3 "Door Hardware Sets" Article..
C. Approved Manufacturers:
1. Burns Manufacturing Incorporated.
2. Don-Jo Mfg., Inc.
3. Trimco.

2.19 CLOSERS
A. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." and ANSI A117.1.
1. Comply with the following maximum opening-force requirements:
a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
b. Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
B. Door Closers for Means of Egress Doors: Comply with NFPA 101. Door closers shall not require more than 30 lbf to set door in motion and not more than 15 lbf to open door to minimum required width.
C. Hold-Open Closers/Detectors: Coordinate and interface integral smoke detector and closer device with fire alarm system.
D. Flush Floor Plates: Provide finish cover plates for floor closers unless thresholds are indicated. Match door hardware finish, unless otherwise indicated.
E. Recessed Floor Plates: Provide recessed floor plates with insert of floor finish material for floor closers unless thresholds are indicated. Provide extended closer spindle to accommodate thickness of floor finish.
F. Power-Assist Closers: As specified in Division 08 Section "Automatic Door Operators" for access doors for people with disabilities or where listed in the door hardware sets.
G. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
H. Surface Closers: BHMA A156.4, Grade 1 unless Grade 2 is indicated. Listed under Category C in BHMA's "Certified Product Directory." Provide type of arm required for closer to be located on non-public side of door, unless otherwise indicated.
1. Approved Manufacturers:
a. LCN Closers.
b. Sargent Manufacturing Company.
c. Stanley Door Closer.
I. Concealed Closers: BHMA A156.4, Grade 1. Listed under Category C in BHMA's "Certified Product Directory."
1. Approved Manufacturers:
a. LCN Closers.
b. Sargent Manufacturing Company.
c. Stanley Door Closer.
J. Closer Holder Release Devices: BHMA A156.15. Listed under Category C in BHMA's "Certified Product Directory."
1. Life-Safety Type: On release of hold open, door becomes self-closing. Automatic release is activated by smoke detection system and loss of power.
2. Approved Manufacturers:
a. LCN Closers.
b. Sargent Manufacturing Company.
c. Stanley Door Closer.
K. Coordinators: BHMA A156.3.
1. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco.

2.20 PROTECTIVE TRIM UNITS
A. Size: 2 inches less than door width on push side and 1 inch less than door width on pull side, by height specified in door hardware sets.
B. Fasteners: Manufacturer's standard machine or self-tapping screws.
C. Metal Protective Trim Units: BHMA A156.6; beveled top and 2 sides; fabricated from material as specified in Part 3 "Door Hardware Sets" Article.
1. Material: 0.050-inch thick.
2. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco.

2.1 STOPS AND HOLDERS
A. Stops and Bumpers: BHMA A156.16, Grade 1.
1. Provide floor stops for doors unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.
B. Mechanical Door Holders: BHMA A156.16, Grade 1.
C. Combination Floor and Wall Stops and Holders: BHMA A156.8, Grade 1.
D. Combination Overhead Stops and Holders: BHMA A156.8, Grade 1.
E. Electromagnetic Door Holders: BHMA A156.15. Listed under Category C in BHMA's "Certified Product Directory."
1. Coordinate with fire detectors and interface with fire alarm system for labeled fire door assemblies.
F. Silencers for Wood Door Frames: BHMA A156.16, Grade 1; neoprene or rubber, minimum 5/8 by 3/4 inch fabricated for drilled-in application to frame.
G. Silencers for Metal Door Frames: BHMA A156.16, Grade 1; neoprene or rubber, minimum diameter 1/2 inch fabricated for drilled-in application to frame.
H. Approved Manufacturers:
1. Burns Manufacturing Incorporated.
2. Don-Jo Mfg., Inc.
3. Trimco.
2.1 DOOR GASKETING
A. Standard: BHMA A156.22. Listed under Category J in BHMA's "Certified Product Directory."
B. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
C. Air Leakage: Not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control as tested according to ASTM E 283.
D. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
1. Provide smoke-labeled gasketing on 20-minute-rated doors and on fire and/or smoke-labeled doors.
E. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
1. Test Pressure: After 5 minutes into the test, neutral pressure level in furnace shall be established at 40 inches or less above the sill].
F. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.
G. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
H. Gasketing Materials: ASTM D 2000 and AAMA 701/702.
I. Approved Manufacturers:
1. K. N. Crowder Mfg, Inc.
2. National Guard Products.
3. Pemko Manufacturing Co.

2.2 THRESHOLDS

A. Standard: BHMA A156.21. Listed under Category J in BHMA's "Certified Product Directory."
B. Accessibility Requirements: Where thresholds are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)." and ANSI A117.1.
1. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
C. Thresholds for Means of Egress Doors: Comply with NFPA 101. Maximum 1/2 inch high.
D. Approved Manufacturers:
1. K. N. Crowder Mfg, Inc.
2. National Guard Products.
3. Pemko Manufacturing Co.

2.3 SLIDING DOOR HARDWARE

A. General: BHMA A156.14; consisting of complete sets including rails, hangers, supports, bumpers, floor guides, and accessories as specified in Part 3 "Door Hardware Sets" Article.
B. Approved Manufacturers:
1. K. N. Crowder Mfg, Inc.
2. Pemko Manufacturing Co.
3. Stanley Hardware.

2.4 FOLDING DOOR HARDWARE
A. General: BHMA A156.14; consisting of complete sets including rails, hangers, supports, bumpers, floor guides, and accessories as specified in Part 3 "Door Hardware Sets" Article.
B. Approved Manufacturers:
1. K. N. Crowder Mfg, Inc.
2. Pemko Manufacturing Co.
3. Stanley Hardware.

2.5 MISCELLANEOUS DOOR HARDWARE

A. Boxed Power Supplies: Modular unit in NEMA ICS 6, Type 4 enclosures; filtered and regulated; voltage rating and type matching requirements of door hardware served; and listed and labeled for use with fire alarm systems.
B. Auxiliary Hardware: BHMA A156.16, Grade 1.
1. Approved Manufacturers:
a. Burns Manufacturing Incorporated.
b. Don-Jo Mfg., Inc.
c. Trimco.

2.6 FABRICATION
A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.
1. Manufacturer's identification is permitted on rim of lock cylinders only.
B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where
bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
2. Steel Machine or Wood Screws: For the following fire-rated applications:
a. Mortise hinges to doors.
b. Strike plates to frames.
c. Closers to doors and frames.
3. Steel Through Bolts: For the following fire-rated applications unless door blocking is provided:
a. Surface hinges to doors.
b. Closers to doors and frames.
c. Surface-mounted exit devices.
4. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
5. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.7 FINISHES
A. Standard: BHMA A156.18, as indicated in door hardware sets.
B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION
A. Steel Doors and Frames: Comply with DHI A115 Series.
1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.
B. Wood Doors: Comply with DHI A115-W Series. Drill pilot holes of appropriate size for ALL wood door installations.

3.3 INSTALLATION
A. Mounting Heights: Mount door hardware units at heights indicated on Drawings and/or as follows unless otherwise indicated or required to comply with governing regulations.
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
3. Drill pilot holes of appropriate size for ALL wood door installations.
C. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated verify location with Architect.
1. Configuration: Provide the least number of power supplies required to adequately serve doors with electrified door hardware.
D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

3.4 ADJUSTING
A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
3. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.
B. Occupancy Adjustment: Approximately 6 months after date of Substantial Completion, Installer shall examine and readjust, including adjusting operating forces, each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.5 CLEANING AND PROTECTION
A. Clean adjacent surfaces soiled by door hardware installation.
B. Clean operating items as necessary to restore proper function and finish.
C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DOOR HARDWARE SETS

END OF SECTION 087100

SECTION 09 9000 - PAINTING
1. SUMMARY
A. Surface preparation and field painting to completely cover primed or exposed exterior and interior items and surfaces.
B. Accent Walls: Assume 20% of interior total wall surfaces will be accent color, requiring an additional coat to coats scheduled below.
2. QUALITY ASSURANCE
A. Paint grade or quality shall be manufacturels premium, professional line.
B. Benchmark samples (mockups) for each type of coating and substrate to establish required sheen, color, and texture.
C. Use materials of same manufacturer throughout Project. If painting over existing paint, verify warranty.
3. INTERIOR PAINT SCHEDULE
A. Concrete and Masonry:
1. Flat or Eggshell: Acrylic Latex: Two coats over primer.
2. Flat or Eggshell: Odorless Alkyd: Two coats over primer.
3. Semigloss or Gloss: Acrylic Latex Enamel: Two coats over primer.
B. Concrete Masonry Units:
1. Flat or Eggshell: Acrylic Latex: Two coats over block filler.
2. Semigloss or Gloss: Acrylic Latex Enamel: Two coats over block filler.
3. Semigloss or Gloss: Alkyd Enamel: Two coats over undercoat and filled surface.
C. Mineral-Fiber-Reinforced Cement Panels:
1. Flat Acrylic: Two coats.
D. Gypsum Board and Plaster:
1. Flat or Eggshell: Acrylic Latex: Two coats over primer.
2. Semigloss or Gloss, Acrylic Latex Enamel: Two coats over primer.
3. Semigloss or Gloss, Alkyd Enamel: Two coats over primer.
E. Acoustical Plaster:
1. Flat: Acrylic Latex: Two coats.
F. Woodwork and Hardboard:
1. Flat: Acrylic Latex: Two coats over primer.
2. Eggshell or Semigloss or Gloss: Acrylic Latex Enamel: Two coats over wood undercoater.
3. Semigloss, Alkyd Enamel: Two coats over primer.
4. Gloss, Alkyd Enamel: Two coats over wood undercoater.
G. Stained Woodwork:
1. Satin or Gloss: Alkyd/Oil: Two coats clear-satin varnish over sealer and wood stain.
H. Natural-Finish Woodwork:
1. Satin or Gloss: Alkyd/Oil: Two coats clear-satin varnish over sealer.
I. Ferrous and non-Ferrous Metal:
1. Flat or Eggshell: Acrylic Latex: Two coats over primer.
2. Semigloss or Gloss: Acrylic Latex Enamel: One coat over undercoater and primer.
J. Zinc-Coated Metal:
1. Flat: Waterborne Latex: Two coats over primer.
2. Eggshell or Semigloss or Gloss: Acrylic Latex Enamel: Two coats over primer.

END OF SECTION 09 9000

SECTION 099600 - HIGH-PERFORMANCE COATINGS
1.1 SUMMARY
A. Section Includes:
1. Epoxy coatings.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Samples for Verification: For each type of coating system and each color and gloss of topcoat. Submit paint manufacturer's standard printed cards for verification Samples.
1.3 MAINTENANCE MATERIAL SUBMITTALS
A. Furnish extra materials, from the same production run (batch number), that match coating system products applied and identified with labels describing contents. Provide 5 percent but not less than 1 gal. (3.8 L).
1.4 EPOXY COATINGS
A. Epoxy: Solvent-based, two-component epoxy coating; formulated for resistance to incidental splash and spillage of dilute (5 percent) sulfuric acid, (15 percent) hydrochloric acid, (20 percent) sodium hydroxide, gasoline, and heavy-duty cleaners and detergents; for use on wall and floor surfaces in moderate-to-heavy-traffic commercial and moderate industrial environments.
B. High-Build Epoxy: Two-component epoxy, high-solids, self-priming coating for use on interior or exterior substrates.
C. Epoxy-Modified Latex: Water-based, two-component, epoxy-modified latex paint for use on interior or exterior substrates.

END OF SECTION 099600

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GRADY HEALTH SYSTEM
GRADY HOSPITAL - CORRELL AMBULANCE CANOPY
80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

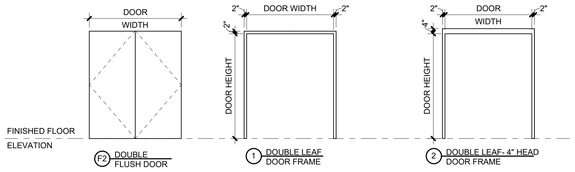
STATE OF GEORGIA
MARY SUE LINDEMAN
10-24-2025
CERTIFICATE NO. RA013969
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER
G002

10/24/2025 11:41:45 AM



M1 DOOR AND FRAME ELEVATIONS

A100 | 1/4" = 1'-0"

HARDWARE FUNCTION LEGEND

CR	CARD READER
AUTO	AUTOMATIC OPENING HARDWARE
EXIT	EXIT HARDWARE SET

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, THE DOOR AND FRAME FINISHES SHALL BE AS FOLLOWS:

   HOLLOW METAL DOORS: PAINT
   HOLLOW METAL FRAMES: PAINT
   WOOD FLUSH DOORS: STAIN
   WOOD PANELED DOORS: STAIN

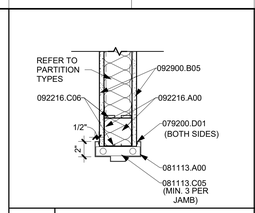
2. ALL DOOR HARDWARE SHALL BE HANDICAP ACCESSIBLE, COMPLYING WITH ANSI A117.1 (TYPICAL)

DOOR AND SCHEDULE NOTES

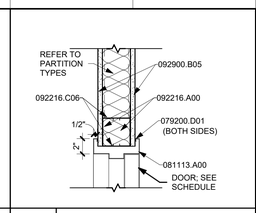
1. INSTALL WEATHER STRIPPING AROUND DOORS.
2. PROVIDE HOLD OPEN DEVICE IN CLOSER.
3. ELECTRONIC ACCESS CONTROL.

DOOR:
CONTINUOUS HINGE

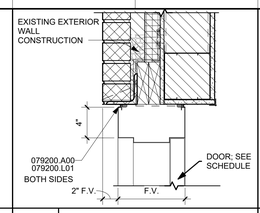
WEATHER STRIPPING
BOTTOM SWEEPS
CARD READER
AUTOMATIC OPERATOR
PUSH PLATES
APPLIED ASTRAGAL



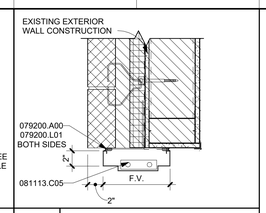
N11 | HM TYP
A100 | 1 1/2" = 1'-0"



N13 | HM TYP.
A100 | 1 1/2" = 1'-0"



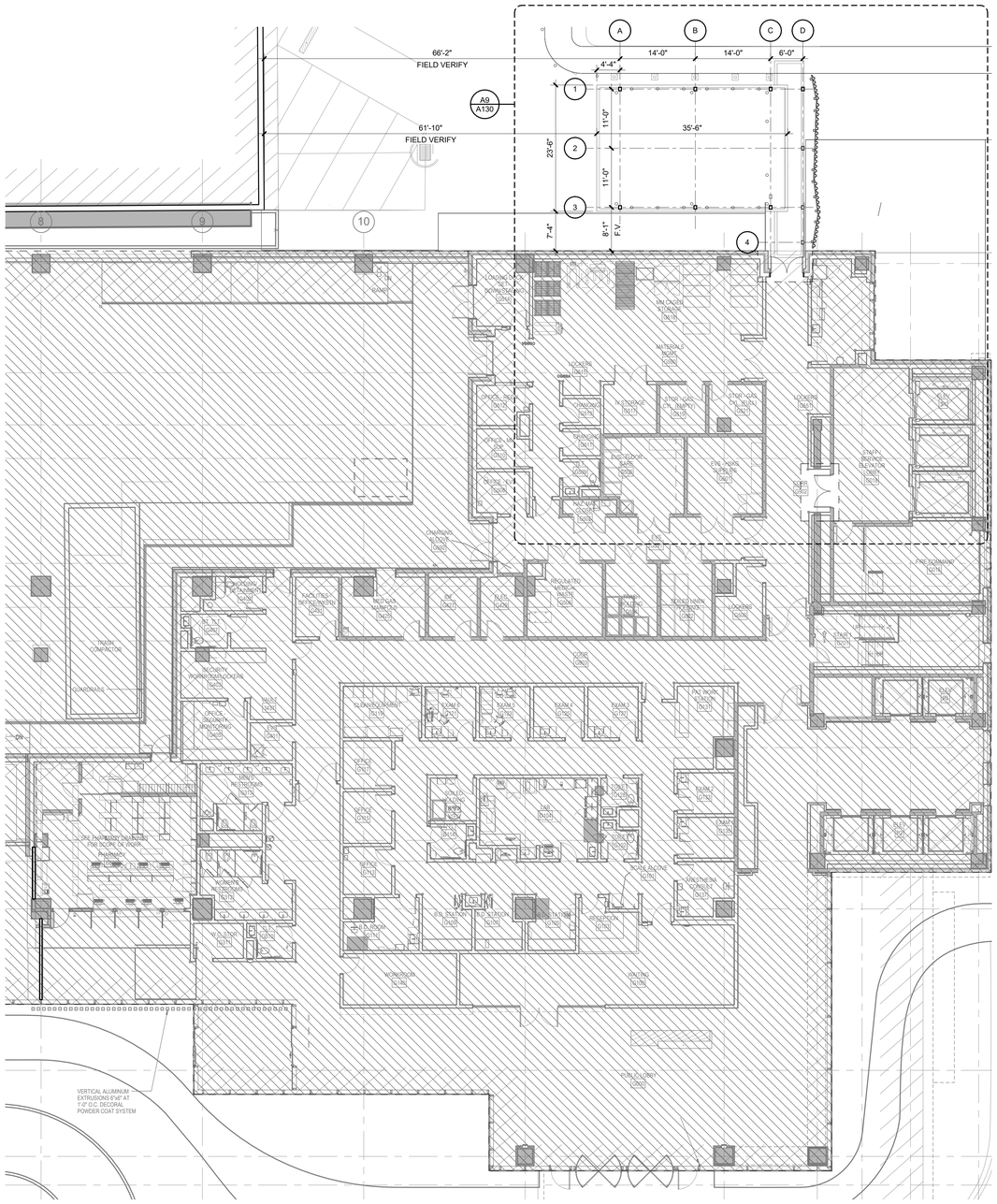
N15 | HM - HEAD DETAIL
A100 | 1 1/2" = 1'-0"



N17 | HM - JAMB DETAIL
A100 | 1 1/2" = 1'-0"

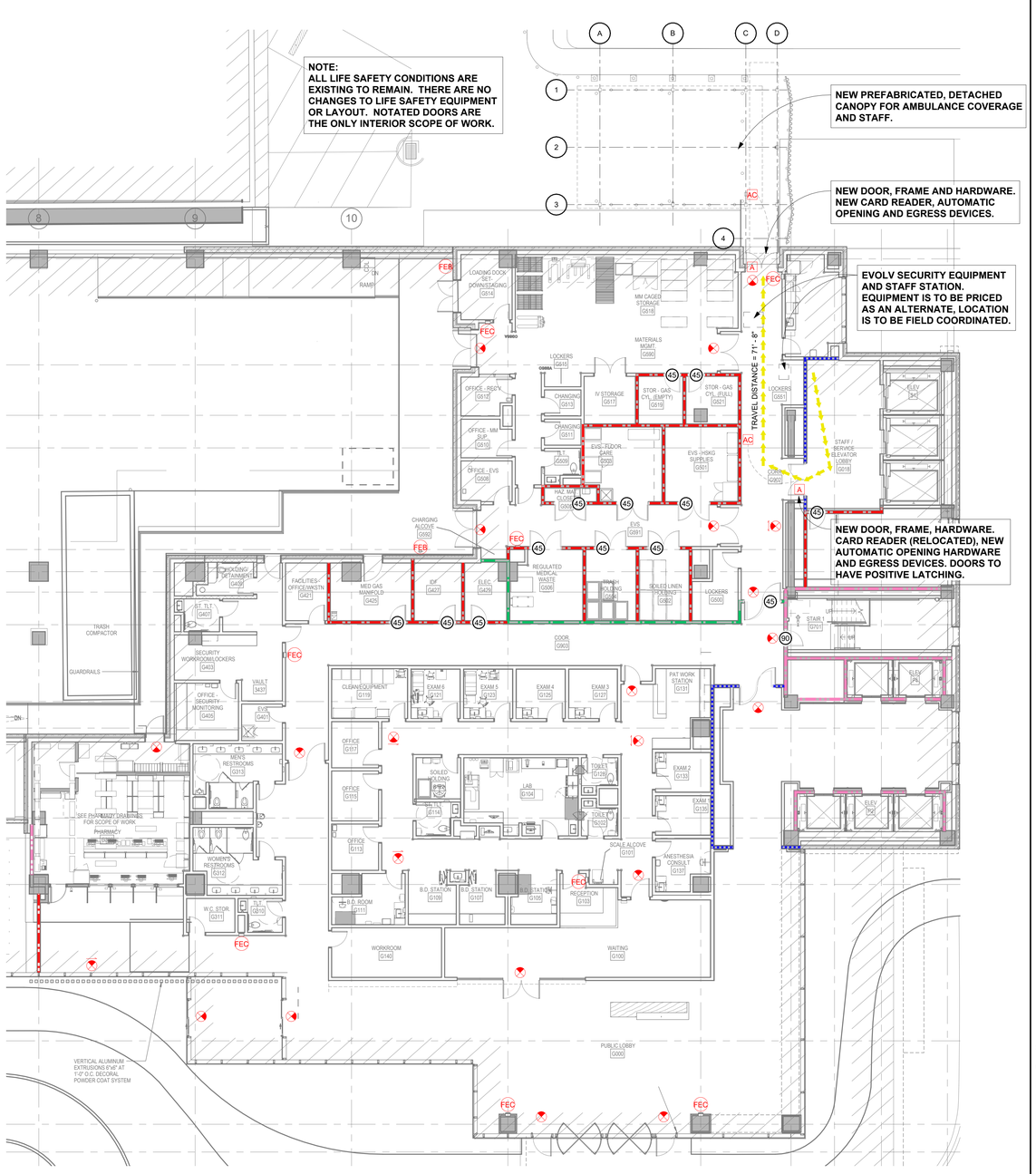
DOOR & FRAME SCHEDULE

NO.	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICK.	DOOR MAT'L	DOOR FINISH	DOOR LABEL	FRAME TYPE	FRAME MAT'L	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	HARDWARE FUNCTION	REMARKS
G018	G	6'-0"	7'-0"	1 3/4"	HM	PAINT	45	1	HM	PAINT	N11/A100	L11/A100	EXISTING	CR/AUTO	MATCH EXISTING WIDTH AND HEIGHT
G902A	F2	6'-0"	7'-0"	1 3/4"	HM	PAINT		2	HM	PAINT	M13/A100	M16/A100	EXISTING	CR/AUTO	MATCH EXISTING WIDTH AND HEIGHT



A1 CORRELL PAVILION - MAIN LEVEL - REFERENCE PLAN

A100 | 3/32" = 1'-0"



A10 CORRELL PAVILION - MAIN LEVEL - LIFE SAFETY

A100 | 3/32" = 1'-0"

CDH ARCHITECTURE
3330 Cumberland Blvd. SE
Suite 100
Atlanta, GA 30339
770.423.0016
www.cdhpartners.com

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GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

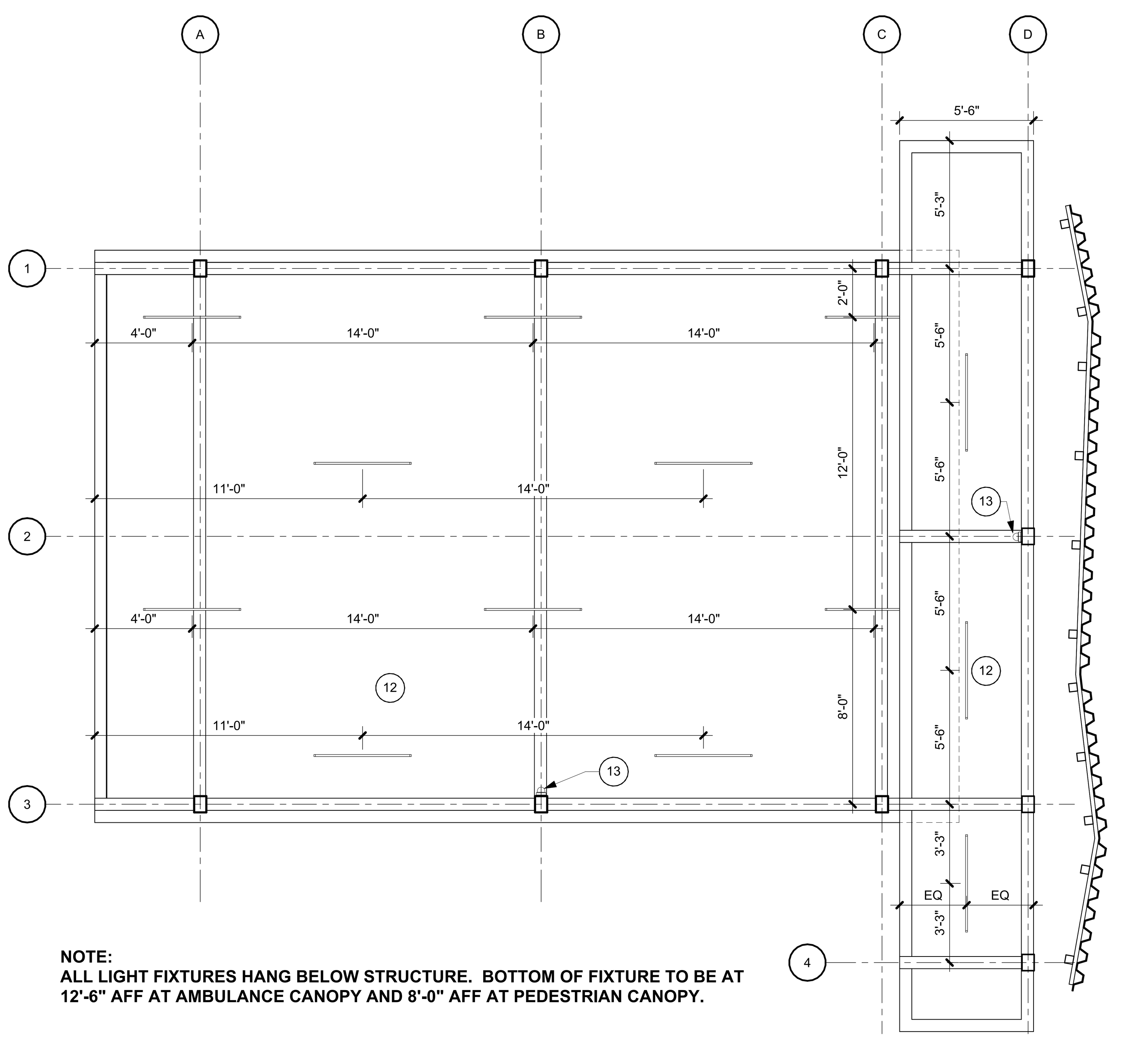
STATE OF GEORGIA
MARY SUE LINDEMAN
10-24-2025
CERTIFICATE NO. RA015995
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE
CORRELL PAVILION - MAIN LEVEL - REFERENCE & LIFE SAFETY PLANS

SHEET NUMBER
A100

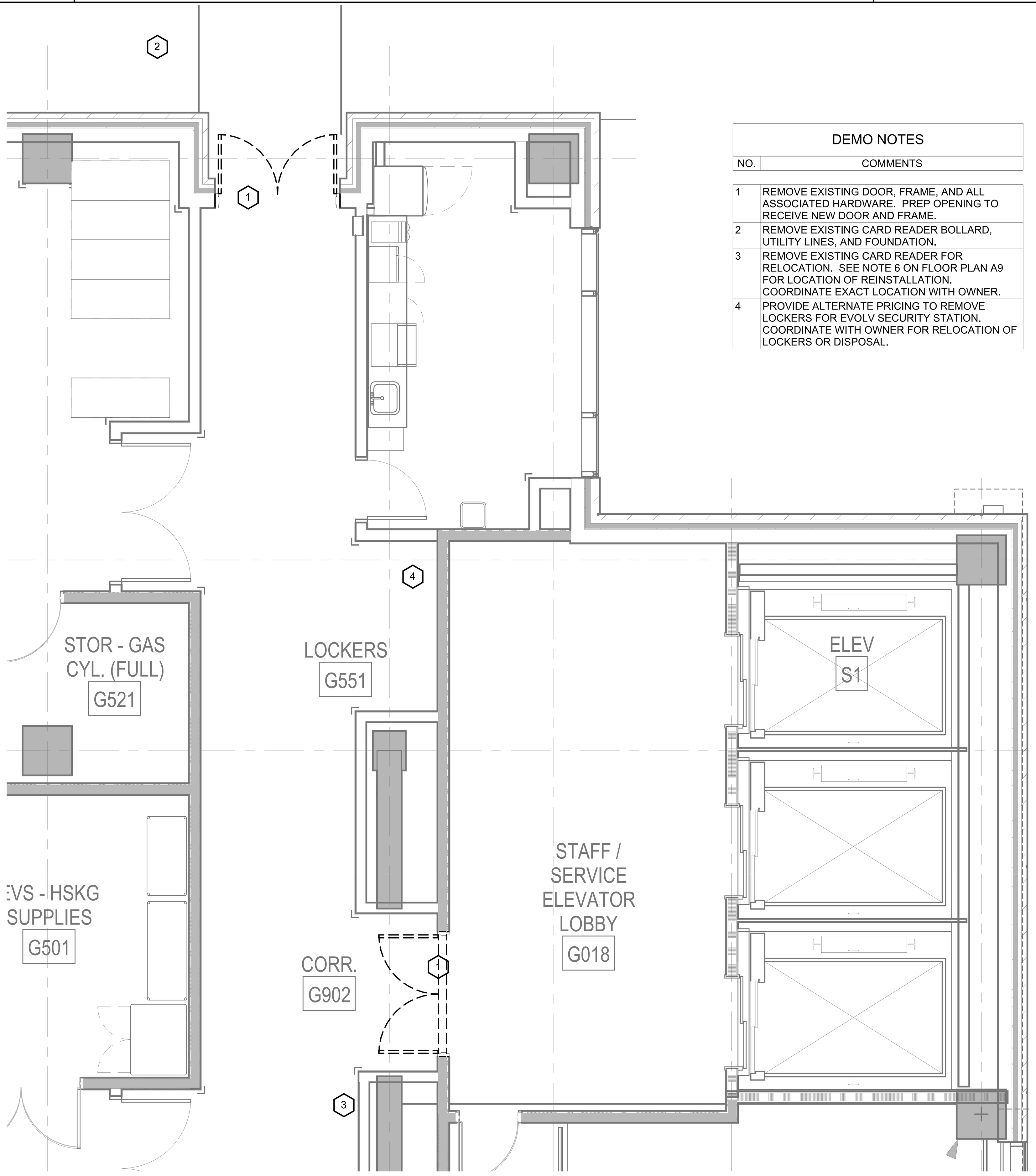
19240205 11:41:32 AM



J1 CANOPY - REFLECTED CEILING PLAN
A130 1/4" = 1'-0"

SHEET NOTES

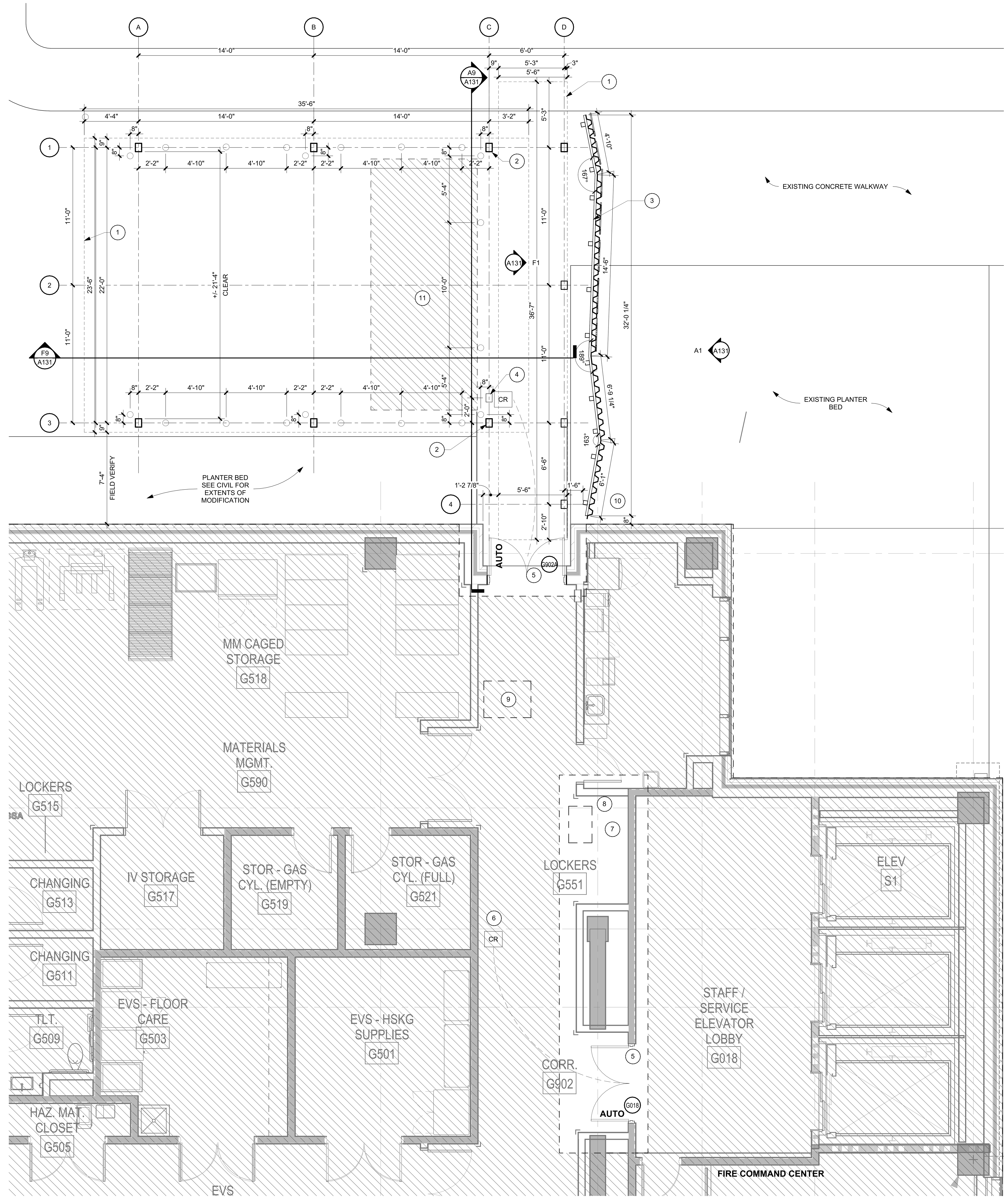
NO.	COMMENTS
1	PREFABRICATED METAL CANOPY. COLOR TO MATCH EXISTING METAL FINS ON CORRELL PAVILION. COORDINATE LAYOUT WITH SITE SPECIFIC DRAWINGS FROM MANUFACTUER. BASIS OF DESIGN: MITCHELL METALS. CONTACT: KURTIS FAHN, 770-431-9595.
2	COLUMN TO HAVE INTERIOR STORM WATER DRAIN PIPE. CONNECT DOWN SPOUT TO UNDERGROUND STORM WATER LINE. SEE CIVIL DRAWINGS.
3	DECORATIVE SCREEN. SCREEN MATERIAL BASIS OF DESIGN: HENDRICK MANUFACTURING SWB240. COORDINATE WITH GRADY SIGN VENDOR FOR STENCIL/DECAL LOCATIONS.
4	DECORATIVE BOLLARD FOR CARD READER AND AI/VOIP PHONE. PHONE TO BE TIED TO GRADY SECURITY AND TO MAIN ENTRY DESK OF CORRELL PAVILION.
5	PROVIDE NEW DOOR AND FRAME TO MATCH EXISTING OPENING HEIGHT AND WIDTH. PROVIDE DOOR WITH AUTOMATIC OPENING HARDWARE TIED TO CARD READER, PANIC BARS/EGRESS HARDWARE. DOOR COLOR TO MATCH EXISTING
6	PROVIDE NEW CARD READER TIED TO ELEVATOR LOBBY DOOR(S). COORDINATE EXACT LOCATION WITH OWNER. DIMENSIONS PROVIDED ON PLAN ARE APPROXIMATE AND ARE TO BE FIELD VERIFIED.
7	COORDINATE WITH OWNER FOR RELOCATION OF EXISTING LOCKERS AS PART OF ALTERNATE PRICING FOR EVOLV SECURITY STATION.
8	PROVIDE ALTERNATE PRICING FOR ADDITIONAL POWER AND DATA OUTLETS FOR EVOLV SECURITY STATION.
9	PROVIDE ALTERNATE PRICING FOR EVOLV SECURITY EQUIPMENT. INCLUDE PRICING FOR NECESSARY POWER/DATA OUTLETS. ALL EVOLV EQUIPMENT IS MOBILE AND LOCATION IS TO BE FIELD COORDINATED WITH OWNER PENDING APPROVAL OF PRICING/INSTALLATION.
10	NEW DECORATIVE SCREEN TO BE HELD MINIMUM 6" OFF FACE OF EXISTING BUILDING. COORDINATE FOOTING LOCATIONS WITH STRUCTURAL DRAWINGS.
11	STRIPPED "NO PARKING" ZONE. SEE CIVIL DRAWINGS FOR EXTENTS AND SPECIFICATIONS.
12	PROVIDE LIGHT FIXTURES THROUGHOUT THE UNDERSIDE OF THE AMBULANCE CANOPY AND PEDESTRIAN CANOPY. COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURE TYPE AND COUNT.
13	SECURITY CAMERA (BY OTHERS) FOR REFERENCE ONLY. EXACT LOCATION AND SPECIFICATION TO BE COORDIANTED WITH ELECTRICAL AND LOW VOLTAGE DRAWINGS. ALL CONDUITS TO BE RUN THROUGH CANOPY STRUCTURE, NO EXPOSED CONDUITS.



DEMO NOTES

NO.	COMMENTS
1	REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE. PREP OPENING TO RECEIVE NEW DOOR AND FRAME.
2	REMOVE EXISTING CARD READER BOLLARD, UTILITY LINES, AND FOUNDATION.
3	REMOVE EXISTING CARD READER FOR RELOCATION. SEE NOTE 6 ON FLOOR PLAN A9 FOR LOCATION OF REINSTALLATION. COORDINATE EXACT LOCATION WITH OWNER.
4	PROVIDE ALTERNATE PRICING TO REMOVE LOCKERS FOR EVOLV SECURITY STATION. COORDINATE WITH OWNER FOR RELOCATION OF LOCKERS OR DISPOSAL.

A1 CORRELL AMBULANCE CANOPY - DEMOLITION PLAN
A130 1/4" = 1'-0"



A9 CORRELL AMBULANCE CANOPY - FLOOR PLAN
A130 1/4" = 1'-0" A1/ A100

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GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

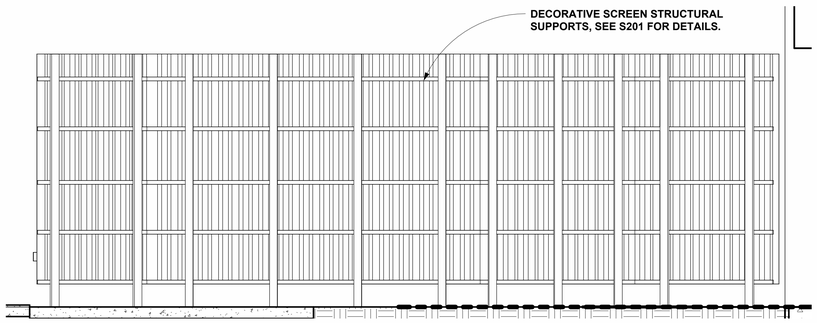
1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

STATE OF GEORGIA — MARY SUE LINDEMAN — REGISTERED ARCHITECT — 10-24-2025

CONTRACT DOCUMENT ISSUED FOR CONSTRUCTION

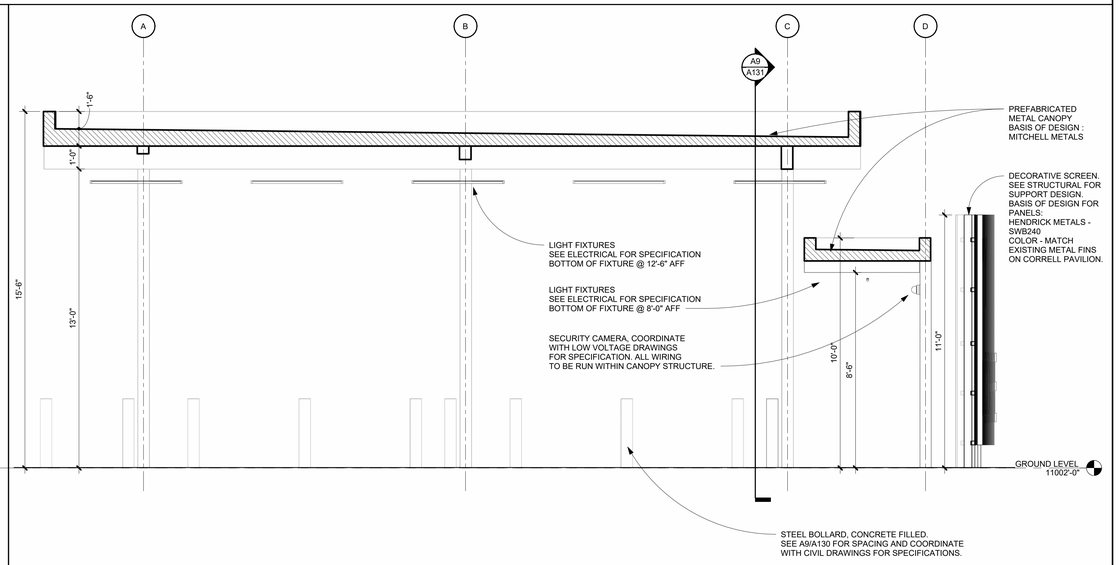
SHEET TITLE
CORRELL PAVILION - PLAN AND RCP

SHEET NUMBER
A130



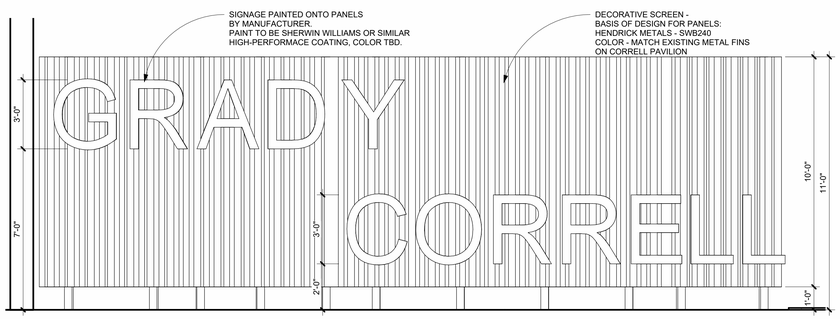
F1 DECORATIVE SCREEN (REAR ELEVATION)

A131 | 3/8" = 1'-0" | A9/ A130



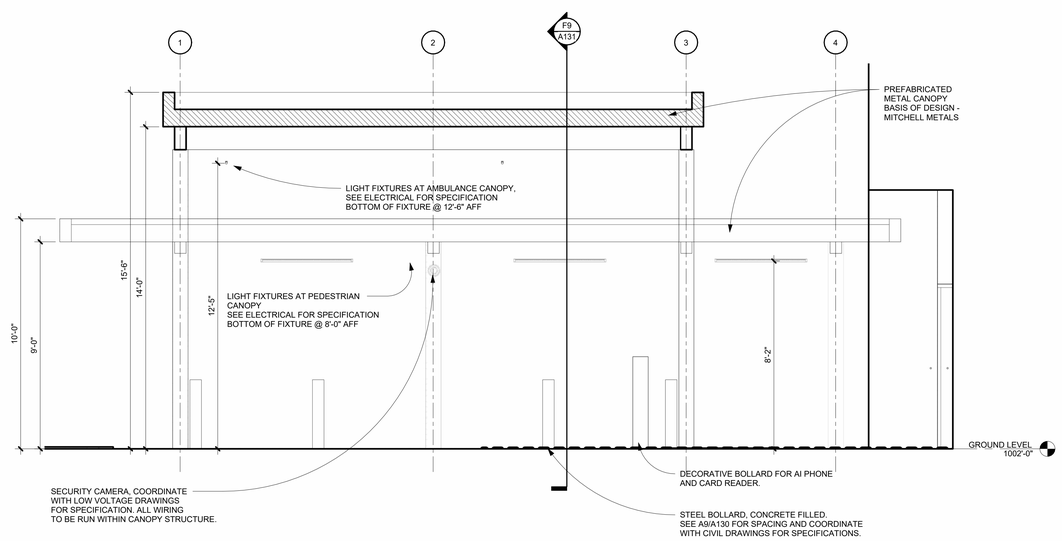
F9 CANOPY SECTION

A131 | 3/8" = 1'-0" | A9/ A130



A1 DECORATIVE SCREEN

A131 | 3/8" = 1'-0" | A9/ A130



A9 CANOPY SECTION

A131 | 3/8" = 1'-0" | A9/ A130

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GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

STATE OF GEORGIA
MARY SUE LINDEMAN
10-24-2025
CERTIFICATE NO. 840389
REGISTERED ARCHITECT

CONTRACT DOCUMENT
ISSUED FOR CONSTRUCTION

SHEET TITLE

ELEVATIONS AND SECTIONS

SHEET NUMBER

A131

10/24/2025 11:41:42 AM

SITE DEVELOPMENT PLANS FOR

GRADY CORRELL AMBULANCE ENTRANCE

80 GILMER STREET, ATLANTA, GA 30303

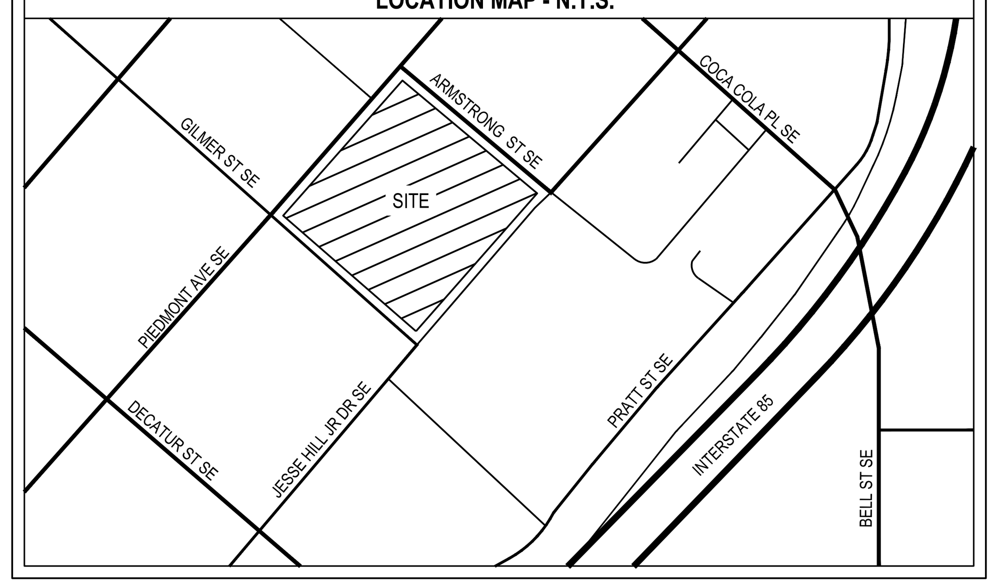
SITE DATA

ZONING USE: SPI 1, SA 1
TOTAL AREA: 3.71 ACRES
DISTURBED AREA: 0.12 ACRES (5,279 S.F.)
FULTON COUNTY, GA
LAND LOT: 52 DISTRICT 14
PARCEL ID(S): 3034 AND 3035

IMPERVIOUS COVER

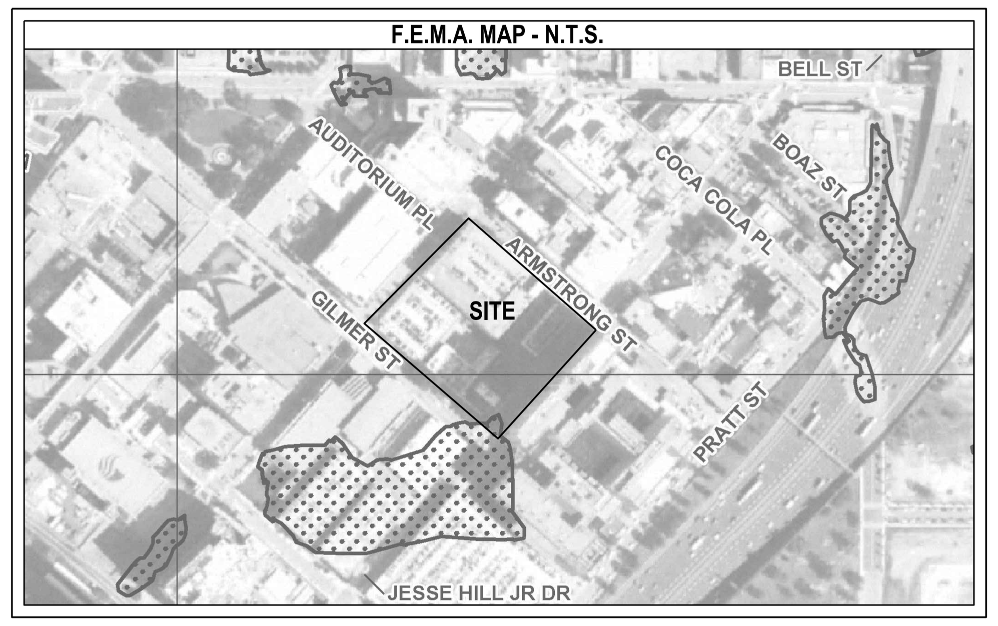
IMPERVIOUS AREA DEMOLISHED: 385 S.F.
IMPERVIOUS AREA PROPOSED: 2,663 S.F.
NET IMPERVIOUS AREA: (0.05 AC) 2,278 S.F.

LOCATION MAP - N.T.S.



99 JESSE HILL JR DR SE, ATLANTA, GA 30303
33.752468 ° N, -84.382675 ° E

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



NO PORTION OF THIS PROPERTY LIES IN THE FLOOD HAZARD ZONE AS PER THE FULTON COUNTY F.I.R.M. NO. 1351570244F DATED 09 /18 / 2013.

SHEET INDEX

SHEET NUMBER	SHEET NAME
C1.0	COVER SHEET & GENERAL NOTES
C1.1	SITE SURVEY
C2.0	DEMOLITION PLAN
C3.0	LAYOUT & STAKING PLAN
C3.1	AMBULANCE TURN AROUND
C4.0	DRAINAGE PLAN
EC1.0	ES&PC PLAN
EC2.0	ES&PC DETAILS
TP1.0	TREE PROTECTION/ REPLACEMENT PLAN

PROJECT DESCRIPTION

PROPOSED SITE WORK CONSISTS OF IMPROVEMENTS TO EXISTING WALKWAY TO ACCOMMODATE AMBULANCE DROPOFF. THESE IMPROVEMENTS INCLUDE A NEW CANOPY AND PRIVACY FENCE AT THE BUILDING ENTRANCE, NEW PAVEMENT SECTIONS, STRIPING, AND BOLLARDS TO BLOCK OFF A PEDESTRIAN WALKWAY. THE PROPOSED CANOPY WILL REQUIRE ROOF DRAINS TO TIE INTO EXISTING STORMWATER INFRASTRUCTURE.

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
- SPOT ELEVATIONS
- PROPOSED RETAINING WALL
- DRAINAGE FLOW DIRECTION
- EXISTING STORM SEWER
- ST 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
- FM EXISTING FORCEMAIN
- FM PROPOSED FORCEMAIN
- EXISTING WATER / FIRE LINE
- PROPOSED WATER / FIRE LINE
- WATER METERS / BFPS
- WATER VALVE / FIRE HYDRANT / TEE / PIV / FDC
- LOD LIMITS OF DISTURBANCE

GENERAL NOTES

1. THE DISTURBED ACREAGE OF THE SITE IS 0.12 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 VALETINO & ASSOCIATES, INC. DATED: 07/09/2025.
13. THE BOUNDARY INFORMATION ON THESE PLANS IS TAKEN FROM FIELD SURVEYS PREPARED BY VALETINO & ASSOCIATES, INC. DATED: 07/09/2025.
14. VERIFY EXISTING TOPOGRAPHIC DATA, LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
15. VERIFY BUILDING DIMENSIONS FROM ARCHITECTURAL DRAWINGS FOR FIELD STAKING.
16. CHECK ALL BUILDING DIMENSIONS AND COORDINATE WITH THE ARCHITECTURAL PLANS.
17. FURNISH AND MAINTAIN ANY AND ALL NECESSARY BARRICADES AROUND THE WORK AND PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
18. PROVIDE SIGNING AND STRIPING ACCORDING TO LOCAL JURISDICTION SPECIFICATIONS.
19. PAINT PAVEMENT MARKING, INCLUDING STANDARD HANDICAP SYMBOLS, PARKING STRIPING AND TRAFFIC ARROWS, ON PAVEMENT AT LOCATIONS SHOWN. SEE PAVEMENT MARKING DETAIL.
20. PROVIDE BOLLARDS AT LOCATIONS SHOWN, AND AROUND TRANSFORMERS, GAS METERS, AND OTHER UTILITIES IN VULNERABLE TRUCK AREAS.
21. CALL UTILITIES PROTECTION CENTER 811.
22. 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.
23. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE JURISDICTIONAL AGENCIES.
24. INSTALL GATE VALVES IN HEAVY DUTY ROADWAY VALVE BOXES FOR ALL WATER VALVES.
25. AT COMPLETION OF 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.
26. ALL CONTRACTOR SHALL FOLLOW ALL MINIMUM RECOMMENDATIONS AND SPECIFICATIONS FOR SITE PREPARATION AND GRADING CONTAINED IN THE REPORT OF GEOTECHNICAL INVESTIGATION PREPARED BY TERRACON CONSULTANTS, INC. DATED 09/13/2019.
27. CUT AND FILL SLOPES 2:1 OR FLATTER (SEE PLANS).
28. 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.
29. REFER TO TREE PROTECTION PLANS FOR TREE CLEARING LIMITS.
30. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO CONSTRUCTION ACTIVITIES.
31. 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.
32. PROVIDE SUPPLY OF TOPSOIL FOR LANDSCAPE CONTRACTOR FOR INSTALLATION IN ALL LANDSCAPE ISLANDS.
33. PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.
34. GRASS AND RIP RAP ALL OPEN DRAINAGE SWALES AS NECESSARY TO CONTROL EROSION.
35. 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.

OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTEM
80 JESSE HILL JR. DRIVE SE
ATLANTA, GA 30303
(404) 616-9650
TEWILLIAMS@GMH.EDU

PROJECT ENGINEER
WESLEY REED, P.E.
EBERLY & ASSOCIATES, INC.
2951 FLOWERS ROAD SOUTH
SUITE 119
ATLANTA, GEORGIA 30341
(770) 452-7849
WREED@EBERLY.NET

24 HOUR CONTACT
TYRONE WILLIAMS
(404) 616-9650
TEWILLIAMS@GMH.EDU

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2951 FLOWERS ROAD SOUTH, STE 119 ATLANTA, GEORGIA 30341
WWW.EBERLY.NET
LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE

GEORGIA REGISTERED PROFESSIONAL ENGINEER WESLEY SLOAN REED

PROJECT NAME: **GRADY CORRELL AMBULANCE ENTRANCE**
FULTON COUNTY, GEORGIA
80 GILMER STREET
ATLANTA, GA 30303

REVISION		
01	09/08/2025	PERMITTING SET
02	09/24/2025	OWNER COMMENTS
03	10/24/2025	CD PACKAGE

COVER SHEET & GENERAL NOTES

SCALE: *
DATE: 08/12/2025
DRAWN BY: I. TABOADA
PROJECT ENGINEER: W. REED, P.E.
QA/QC REVIEWER:

EBERLY PROJECT NUMBER: 25-115

SHEET NUMBER: C1.0

ISSUED FOR CONSTRUCTION

© 2023, EBERLY & ASSOCIATES, INC.
01/31/2024
G:\PROJECTS\2025\25-115 Grady Correll Ambulance Entrance\5.0 Drawing\25-115 Base.dwg October 24, 2025

RESERVED FOR CLERK OF COURT

LEGEND

	BROKEN LINE NOT TO SCALE
X	FENCE LINE
	GUARDRAIL
G	UNDERGROUND GAS LINE
E	OVERHEAD ELECTRIC LINE
T	OVERHEAD TELEPHONE LINE
S	SANITARY SEWER LINE
FM	SANITARY SEWER FORCEMAIN LINE
UE	UNDERGROUND ELECTRIC LINE
UT	UNDERGROUND TELEPHONE LINE
UNK	UNKNOWN UNDERGROUND UTILITY LINE
W	WATER LINE
	STEAM LINE
	CATCH BASIN SINGLE WING
	CATCH BASIN DOUBLE WING
	COMPUTED POINT
	BORING HOLE
	CLEANOUT
	COMMUNICATION BOX
	ELECTRIC BOX
	ELECTRIC LINE MARKER/PANEL
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC OUTLET
	ELECTRIC SWITCH
	FIBER OPTIC BOX
	FIBER OPTIC LINE MARKER
	FIRE HYDRANT
	FLARED END SECTION
	GAS LINE MARKER
	GAS METER
	GAS VALVE
	GROUND LIGHT
	GUY POLE
	GUY WIRE
	HEADWALL
	HEATING/AIR CONDITIONING UNIT
	IRRIGATION CONTROL VALVE
	LIGHT POLE
	POST INDICATOR VALVE
	POWER POLE
	SANITARY SEWER MANHOLE
	SIGN POST
	STORM WATER DROP INLET
	STORM WATER JUNCTION BOX
	STORM WATER YARD INLET
	TELEPHONE MANHOLE
	TELEPHONE POLE
	TRAFFIC SIGNAL BOX
	TRAFFIC SIGNAL POLE
	WATER MANHOLE
	WATER METER
	WATER VALVE
	WATER VALVE/LINE MARKER
BO	BOLLARD
CMF	CONCRETE MONUMENT FOUND
CTF	CRIMPED TOP PIPE FOUND
+ FFE	FINISHED FLOOR ELEVATION
IRB	IRRIGATION BOX
IPF	IRON PIN FOUND
IPS	1/2" IRON PIN & CAP SET #2528
MB	MAIL BOX
OTF	OPEN TOP PIPE FOUND
PKF	PK NAIL FOUND
PKS	PK NAIL SET
RBF	REBAR FOUND
RMF	RIGHT-OF-WAY MONUMENT FOUND
RRSB	RAILROAD SIGNAL BOX
SO	STUB OUT
BSL	BUILDING SETBACK LINE
C&G	CURB & GUTTER
CP	CONCRETE PAD
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
DB PG	DEED BOOK & PAGE
DIP	DUCTILE IRON PIPE
HC	HEADER CURB
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
OCS	OUTLET CONTROL STRUCTURE
PB PG	PLAT BOOK & PAGE
PVC	PLASTIC PIPE
RCP	REINFORCED CONCRETE PIPE
TBM	TEMPORARY BENCHMARK
× 100.00	SPOT ELEVATION

SPECIAL NOTES

1) CERTIFICATION AND DECLARATION IS MADE TO THE ENTITIES AS LISTED IN THE TITLE BLOCK AND/OR CERTIFICATIONS. THE CERTIFICATIONS AND DECLARATIONS ON THIS PLAT ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

2) SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.

3) THE UNDERSIGNED SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

4) PURSUANT TO RULE 180-6.09 OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS, THE TERM "CERTIFICATION" RELATING TO PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

GENERAL NOTES

1) THIS SURVEY WAS DONE UNDER MY SUPERVISION USING A TOPCON GTS-302 AND A GEOMAX 90 TOTAL STATION WITH AN ANGULAR ERROR OF 01 SECOND PER STATION. THE TRAVERSE UPON WHICH THIS PLAT IS BASED, HAS BEEN CALCULATED FOR CLOSURE BY THE LEAST SQUARE RULE AND THE RELATIVE POSITIONAL ACCURACY IS 0.0080 FEET.

2) ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 13121C0244F, DATED 9/18/2013 FOR FULTON COUNTY, GEORGIA THIS PROPERTY DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS DEFINED BY F.E.M.A.

3) CURRENT ZONING ACCORDING TO THE CITY OF ATLANTA IS LISTED AS SPI-1 SA1, SPECIAL PUBLIC INTEREST 1, SUB AREA 1 DISTRICT. THE CITY OF ATLANTA ZONING DEPARTMENT MUST BE REFERENCED FOR ALL REQUIREMENTS UNDER THIS ZONING.
NO BUILDING SETBACKS OR MAXIMUM BUILDING HEIGHT REQUIREMENTS ARE LISTED.

4) HORIZONTAL AND VERTICAL REFERENCE SHOWN HEREON WAS TAKEN FROM NATIONAL GEODETIC SURVEY CONTROL MONUMENT "GRADY RESET" (PID #AA9441), ELEVATION = 1001.2 FEET. (NAD 83 / NAVD 88)

5) ALL DISTANCES SHOWN HEREON ARE "GROUND" DISTANCES, UNLESS OTHERWISE STATED AS "GRID" DISTANCES.

6) CONTOUR INTERVALS SHOWN ARE ONE FOOT.

7) BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM PLAT REFERENCES LISTED HEREON. THE SURVEYOR'S CERTIFICATION EXTENDS ONLY TO THE TOPOGRAPHIC ASPECTS, AND DOES NOT CONSTITUTE A BOUNDARY SURVEY. THIS SURVEY IS NOT TO BE RECORDED OR USED TO CONVEY PROPERTY.

UTILITY WARNING

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER(S), THEIR EMPLOYEES, THEIR CONSULTANTS, THEIR CONTRACTORS, AND/OR THEIR AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON.

UNDERGROUND UTILITY LOCATION PROVIDED BY

RHD SERVICES
740 CONCORD ROAD
SMYRNA, GA 30080
TELEPHONE (404) 874-8585
WEBSITE https://rhdservices.com

ALL UTILITY LOCATIONS ARE SUBJECT TO VERIFICATION BY THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 PRIOR TO ANY CONSTRUCTION. THESE UTILITY LOCATIONS ARE GAINED BY INFORMATION FROM ON SITE PERSONNEL AND SURROUNDING FACILITIES. ALL POSSIBLE BUILDINGS AND MECHANICAL AREAS ARE UTILIZED IN ORDER TO PROVIDE THE MOST ACCURATE AND THOROUGH REPRESENTATION OF THE EXISTING UTILITY LAYOUT. UTILITY LOCATIONS ARE FOR SURVEYING AND PLANNING PURPOSES ONLY.

NOTE: THE UNDERGROUND UTILITY LOCATOR WAS ABLE TO REPLICATE SOME OF THE UNDERGROUND UTILITIES THAT WERE PREVIOUSLY LOCATED BY OTHER UTILITY LOCATE COMPANIES. FOR COMPLETENESS THIS SURVEY SHOWS ALL UTILITY LINES CURRENTLY MARKED, AND PREVIOUSLY MARKED.

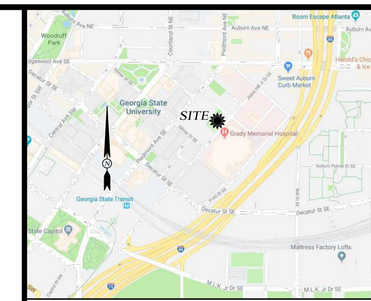
PLAT REFERENCES

1) "LOT CONSOLIDATION PLAT FOR: THE FULTON-DEKALB HOSPITAL AUTHORITY", PREPARED BY VALENTINO & ASSOCIATES, INC., DATED 9/18/2018, LAST REVISED 9/26/2018, RECORDED IN PLAT BOOK 416, PG 59, FULTON COUNTY, GEORGIA RECORDS.

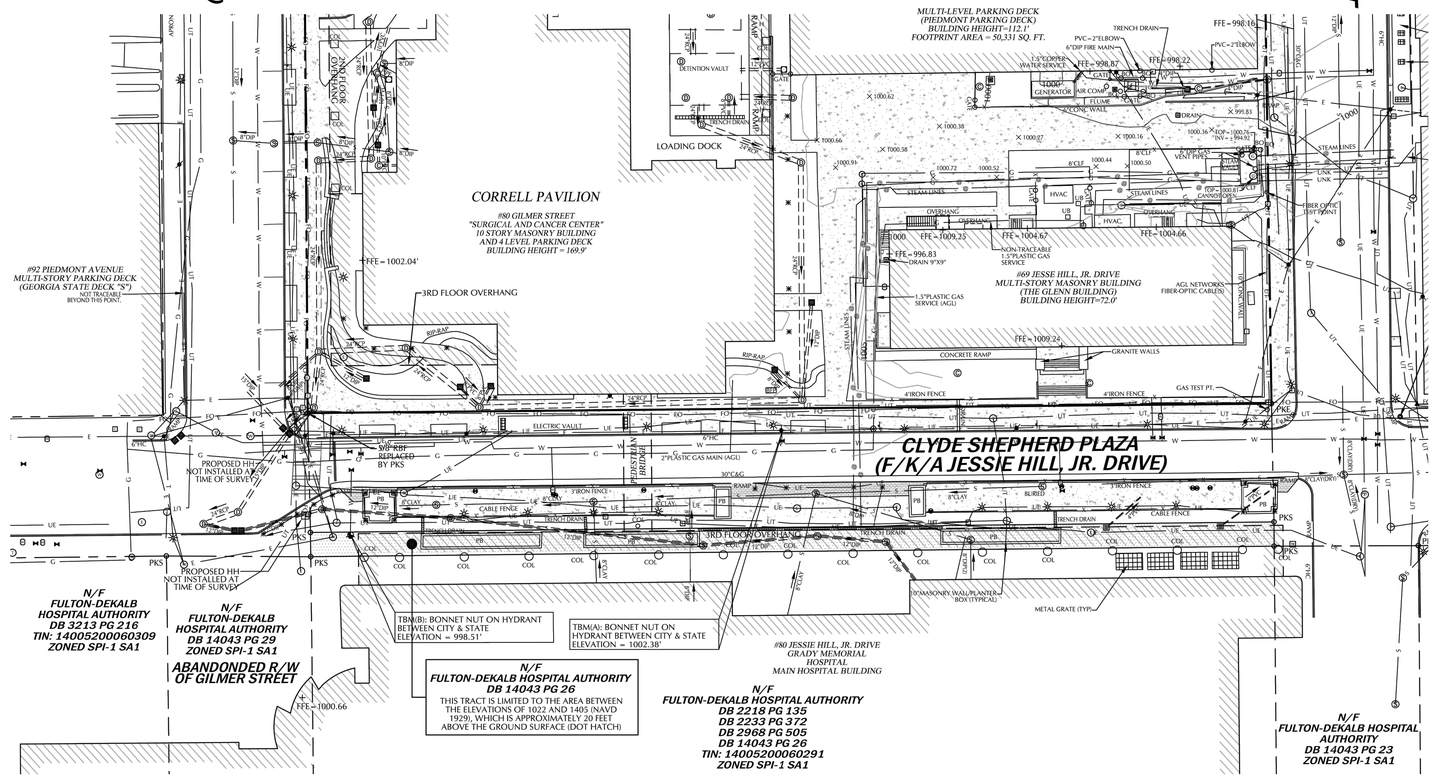
2) "BOUNDARY AND TOPOGRAPHIC SURVEY FOR: GRADY MEMORIAL HOSPITAL", PREPARED BY VALENTINO & ASSOCIATES, INC., DATED 1/24/2018, LAST REVISED 6/27/2019.

811 Know what's below. Call before you dig. Or Call 800-282-7411 Three working days prior to construction

GRID NORTH GEORGIA WEST ZONE



VICINITY MAP
NOT TO SCALE



30 0 30 60 90
GRAPHIC SCALE – FEET

FIELD DATES: 6/30/25 - 7/3/25

STATE OF GEORGIA PLAT ACT CERTIFICATION

THIS PLAT IS A RETRACEMENT OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL OR MAKE ANY CHANGES TO ANY REAL PROPERTY BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS, OR OTHER INSTRUMENTS WHICH CREATED THE PARCEL OR PARCELS ARE STATED HEREON.
RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.

GLENN A. VALENTINO GA. R.L.S. #2528
DATE OF EXPIRATION: 12/31/2025

PARTIAL TOPOGRAPHIC & UTILITY SURVEY FOR:

GRADY MEMORIAL HOSPITAL

LAND LOT 52 14TH DISTRICT CITY OF ATLANTA, FULTON COUNTY, GEORGIA

C1.1

VALENTINO & ASSOCIATES, INC.
LAND SURVEYORS
4045 ORCHARD ROAD
BUILDING 200
SMYRNA, GEORGIA 30080
PHONE: (770) 438-0015
FAX: (770) 435-6050
WEB: VALENTINOSURVEY.COM
STATE OF GEORGIA LAND SURVEYING FIRM LICENSE NO. LSF000794

REVISIONS

GEORGIA REGISTERED No. 2528 LAND SURVEYOR GLENN A. VALENTINO

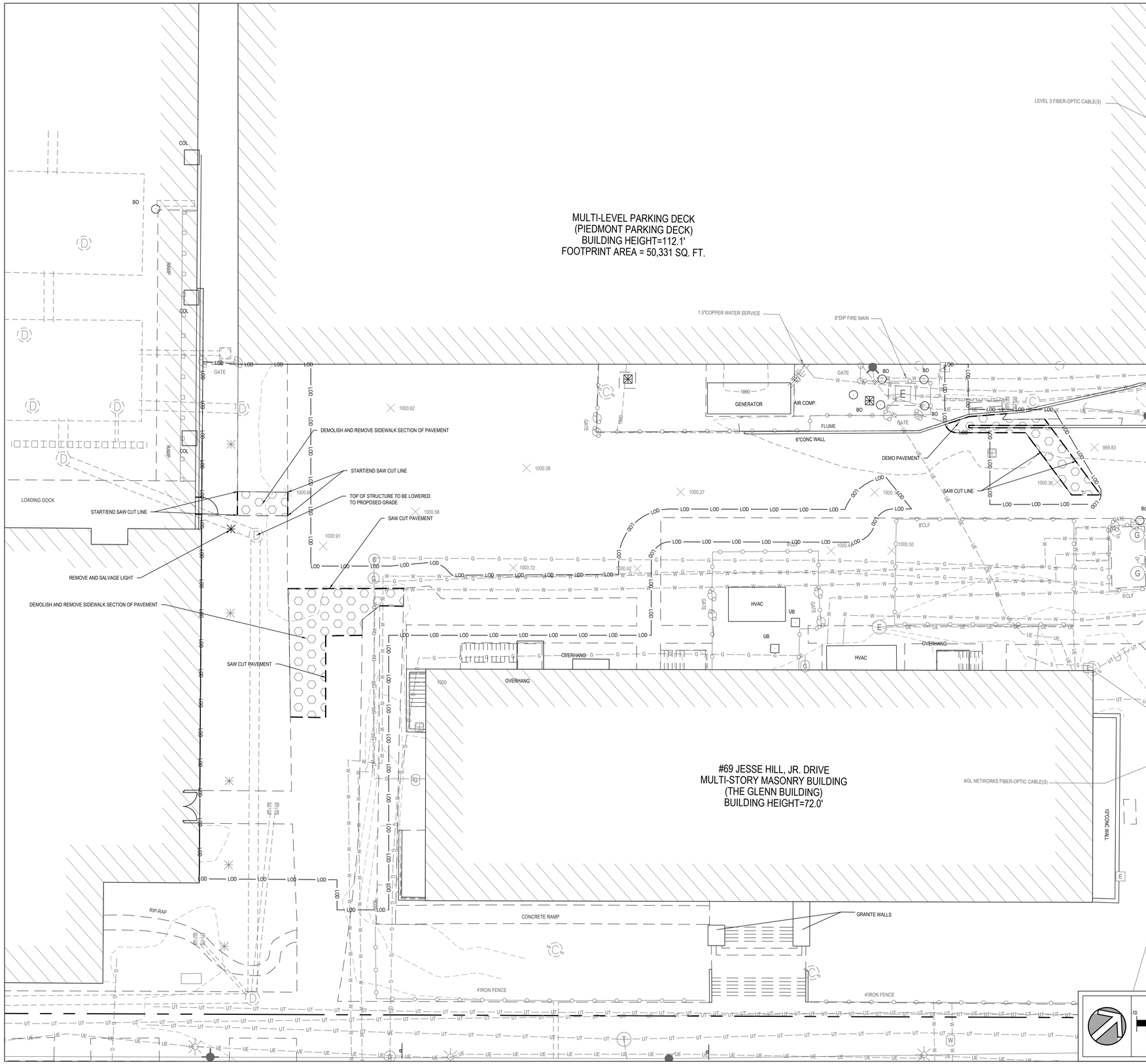
SCALE:	1" = 30'
DATE:	7/9/2025
JOB NUMBER:	17-054
FILE NUMBER:	17-054-UD
PLOTTED:	7/9/2025

PARTIAL TOPOGRAPHIC SURVEY

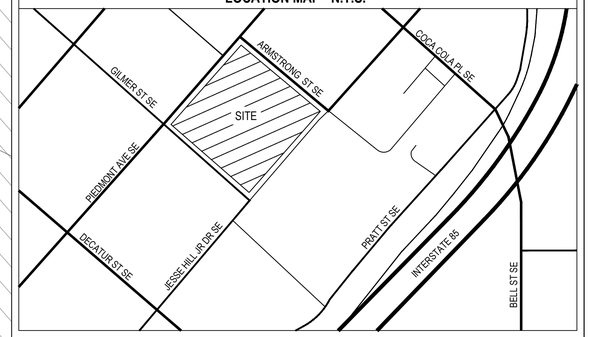
SHEET
1 OF 1

R:\2017\17-054\17-054.DWG (11-01-4.CRD)

01/31/2024



LOCATION MAP - N.T.S.



DEMOLITION LEGEND

- SAWCUT LINE
- LIMITS OF DISTURBANCE / DEMOLITION
- EXISTING CURB & GUTTER
- DEMOLISHED CURB & GUTTER
- EXISTING BUFFER
- REMOVED BUFFER
- EXISTING PAVING TO BE REMOVED
- EXISTING BUILDING / STRUCTURE TO BE REMOVED
- EXISTING 100-YR FLOODPLAIN
- REMOVED 100-YR FLOODPLAIN
- EXISTING WETLANDS
- REMOVED WETLANDS
- EXISTING STREAM
- REMOVED STREAM
- EXISTING FENCE
- REMOVED FENCE
- EXISTING RAILROAD
- REMOVED RAILROAD
- EXISTING GAS LINE
- REMOVED GAS LINE
- EXISTING FORCE MAIN
- REMOVED FORCE MAIN
- EXISTING SEWER LINE
- REMOVED SEWER LINE
- EXISTING STORM LINE
- REMOVED STORM LINE
- EXISTING WATER LINE
- REMOVED WATER LINE
- EXISTING FIRE LINE
- REMOVED FIRE LINE
- EXISTING FIBER LINE
- REMOVED FIBER LINE
- EXISTING OVERHEAD ELECTRIC LINE
- REMOVED OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVED UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- REMOVED OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- REMOVED UNDERGROUND TELEPHONE LINE

DEMOLITION NOTES

1. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: PAVEMENT REMOVAL AND LIGHT POST REMOVAL, WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
2. COORDINATE WITH REMAINDER OF CONSTRUCTION DOCUMENTS PRIOR TO START OF CONSTRUCTION
3. EBERLY & ASSOCIATES DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE EXISTING UTILITY INFORMATION SHOWN IS CORRECT, ACCURATE OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE FIELD LOCATION AND PROTECTION OF ALL OVERHEAD AND SUBSURFACE LINES AND FACILITIES WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE EXCAVATION, DEMOLITION OR UTILITY WORK.

OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTEM
80 JESSE HILL JR. DRIVE SE
ATLANTA, GA 30303
(404) 616-9650
TEWILLIAMS@GMH.EDU

PROJECT ENGINEER
WESLEY REED, P.E.
EBERLY & ASSOCIATES, INC.
2951 FLOWERS ROAD SOUTH
SUITE 119
ATLANTA, GEORGIA 30341
(770) 452-7849
WREED@EBERLY.NET

24 HOUR CONTACT
TYRONE WILLIAMS
(404) 616-9650
TEWILLIAMS@GMH.EDU

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 INCH = 10 FT.

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WWW.EBERLY.NET
LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE

GEORGIA REGISTERED PROFESSIONAL ENGINEER WESLEY SLOAN REED

PROJECT NAME:
GRADY CORRELL AMBULANCE ENTRANCE
FULTON COUNTY, GEORGIA
80 GILMER STREET
ATLANTA, GA 30303

REVISION

01	09/08/2025	PERMITTING SET
02	09/24/2025	OWNER COMMENTS
03	10/24/2025	CD PACKAGE

DEMOLITION PLAN

SCALE:	1" = XX'
DATE:	08/12/2025
DRAWN BY:	I. TABOADA
PROJECT ENGINEER:	W. REED, P.E.
QA/QC REVIEWER:	

EBERLY PROJECT NUMBER:
25-115

SHEET NUMBER:
C2.0
ISSUED FOR CONSTRUCTION

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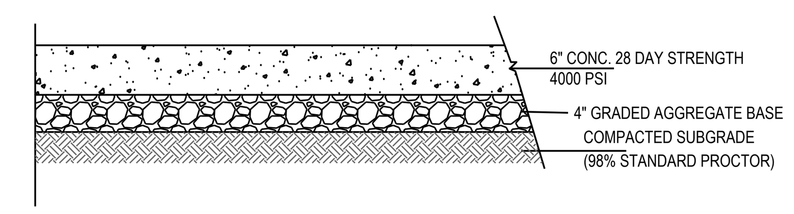
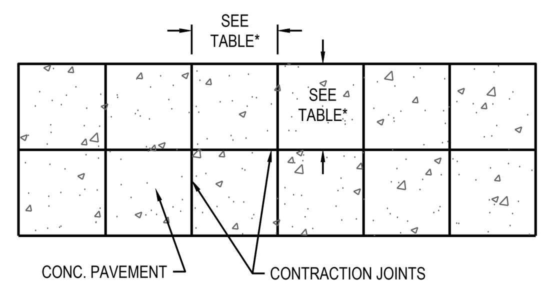
G:\PROJECTS\2025\25-115 Grady Correll Ambulance Entrance\5.0 Drawing\25-115 Base.dwg October 24, 2025



P / 15B HEAVY DUTY CONCRETE PAVING - NON-REINFORCED
NOT TO SCALE

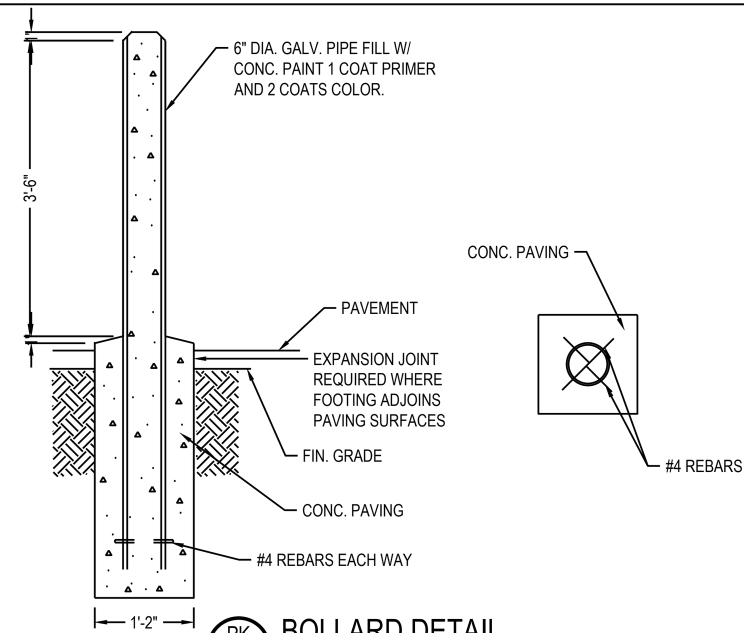


NOTES: 1) SEAL ALL JOINTS PER JOINT DETAILS

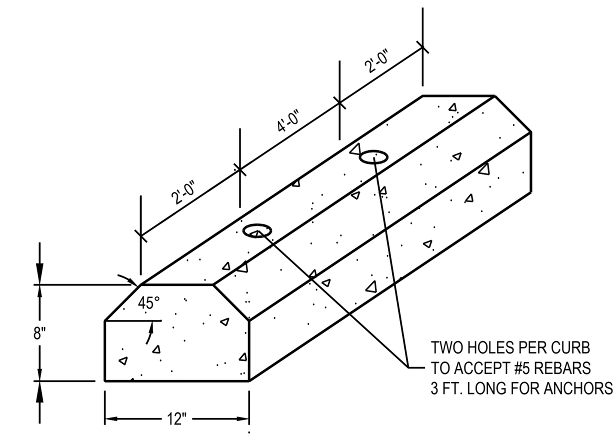
SLAB THICKNESS (IN)	MAX JOINT SPACING (FT)
4"	8' X 8'
5"	10' X 10'
6"	12' X 12'
7"	14' X 14'
>7"	15' X 15'

* REFER TO GEOTECH REPORT FOR SITE SPECIFIC JOINT SPACING

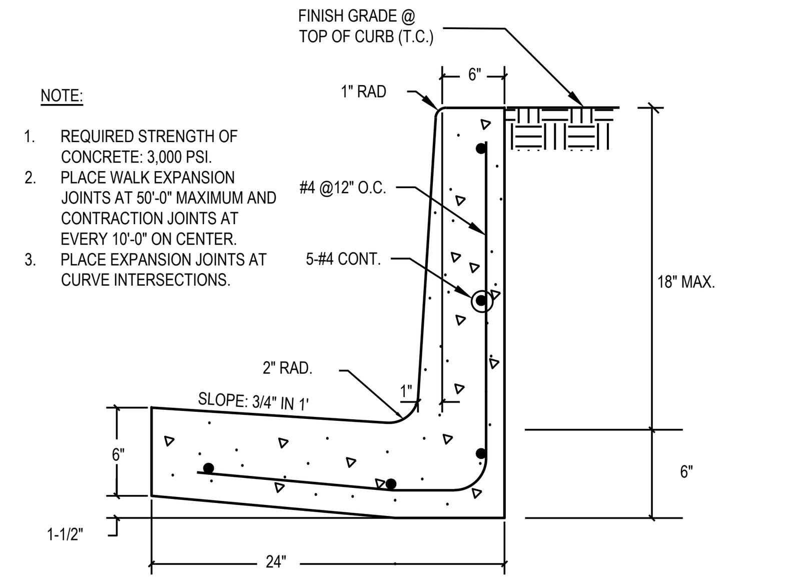
P / 05 CONTRACTION JOINT SPACING
NOT TO SCALE



PK / 09 BOLLARD DETAIL
NOT TO SCALE

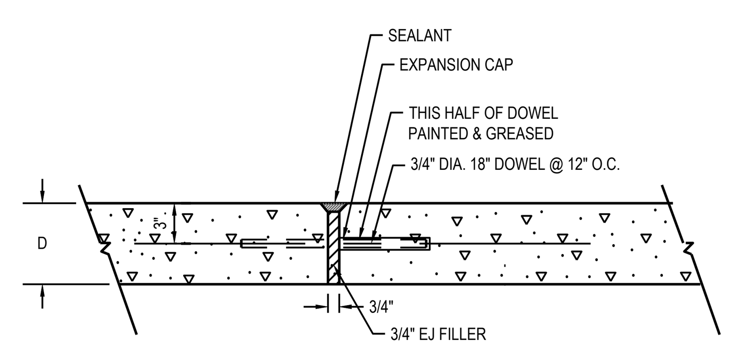


PK / 02 8' PRECAST WHEEL STOP
NOT TO SCALE



NOTE:
1. REQUIRED STRENGTH OF CONCRETE: 3,000 PSI.
2. PLACE WALK EXPANSION JOINTS AT 50'-0" MAXIMUM AND CONTRACTION JOINTS AT EVERY 10'-0" ON CENTER.
3. PLACE EXPANSION JOINTS AT CURVE INTERSECTIONS.

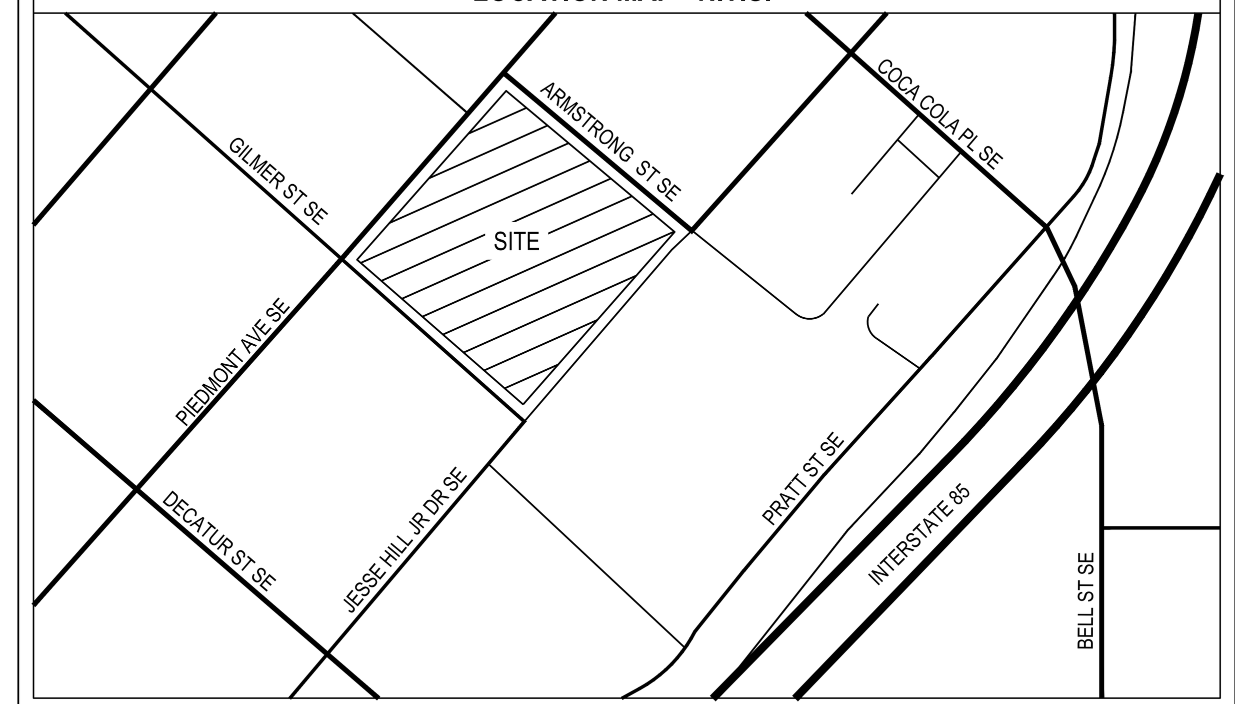
C / 02 HIGH CURB & GUTTER
NOT TO SCALE



NOTE: SEAL ALL JOINTS

P / 02 EXPANSION JOINT - DOWELED
NOT TO SCALE

LOCATION MAP - N.T.S.

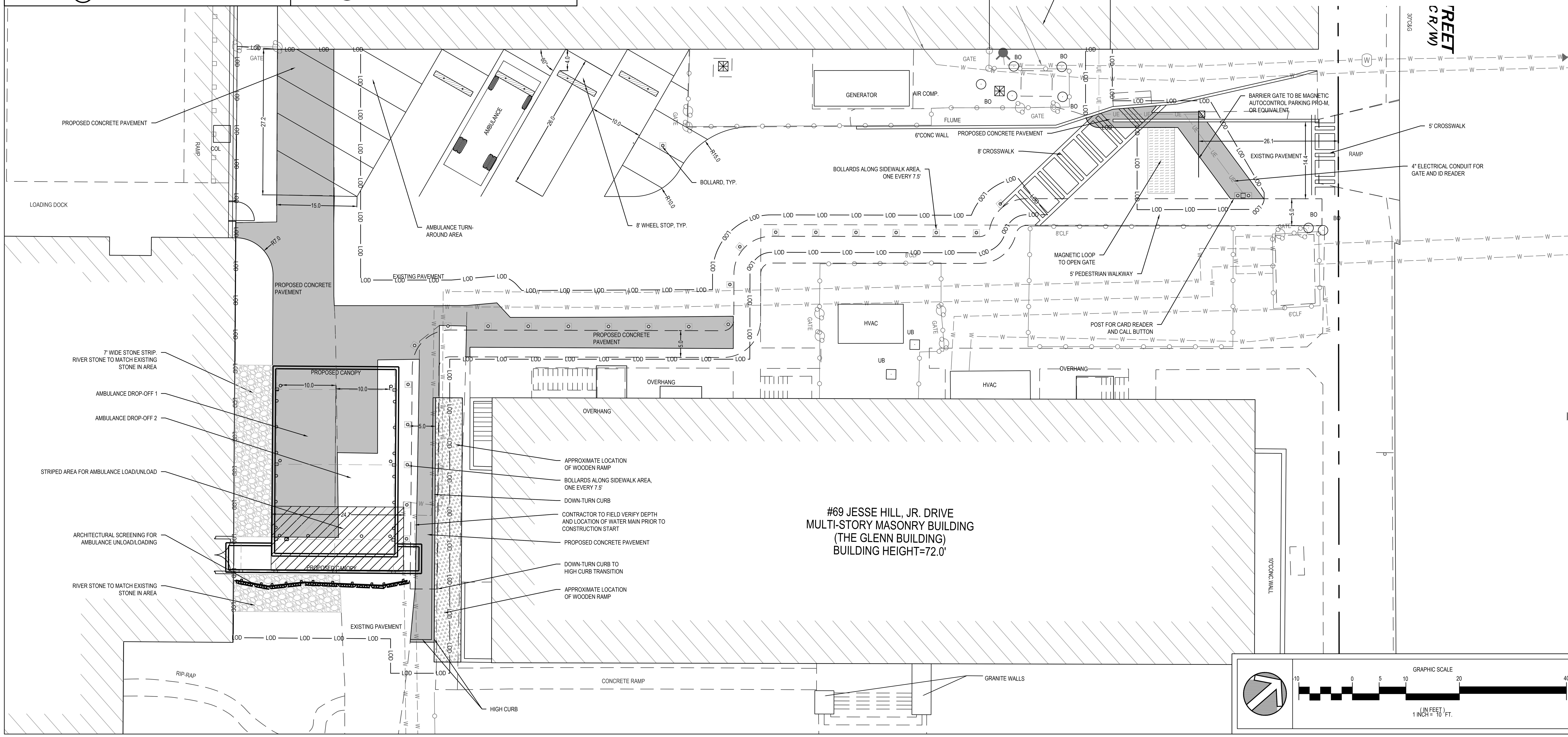


SITE DATA
ZONING USE: SPI 1, SA 1
TOTAL AREA: 3.71 ACRES
DISTURBED AREA: 0.12 ACRES (5,279 S.F.)
FULTON COUNTY, GA
LAND LOT: 52 DISTRICT 14
PARCEL ID(S): 3034 AND 3035

IMPERVIOUS COVER
IMPERVIOUS AREA DEMOLISHED: 385 S.F.
IMPERVIOUS AREA PROPOSED: 2,663 S.F.
NET IMPERVIOUS AREA: (0.05 AC) 2,278 S.F.

LAYOUT LEGEND
- EXISTING BUILDING
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING PAVEMENT
- PROPOSED CONCRETE PAVING
- PROPOSED MILL AND OVERLAY
- EXISTING FENCING
- EXISTING GUARDRAIL
- PROPOSED FENCING
- PROPOSED GUARDRAIL
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED STRIPING
- PROPOSED BOLLARDS

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



OWNER/DEVELOPER (PRIMARY PERMITTEE)
GRADY HEALTH SYSTEM
80 JESSE HILL JR. DRIVE SE
ATLANTA, GA 30303
(404) 616-9650
TEWILLIAMS@GMH.EDU

PROJECT ENGINEER
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EBERLY & ASSOCIATES, INC.
2951 FLOWERS ROAD SOUTH
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WWW.EBERLY.NET
LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 039467 WESLEY SLOAN REED

PROJECT NAME:
GRADY CORRELL AMBULANCE ENTRANCE
FULTON COUNTY, GEORGIA
80 GILMER STREET
ATLANTA, GA 30303

REVISION		
01	09/08/2025	PERMITTING SET
02	09/24/2025	OWNER COMMENTS
03	10/24/2025	CD PACKAGE

LAYOUT AND STAKING PLAN

SCALE: 1" = 10'
DATE: 08/12/2025
DRAWN BY: I. TABOADA
PROJECT ENGINEER: W. REED, P.E.
QA/QC REVIEWER:

EBERLY PROJECT NUMBER: 25-115

SHEET NUMBER: C3.0

ISSUED FOR CONSTRUCTION

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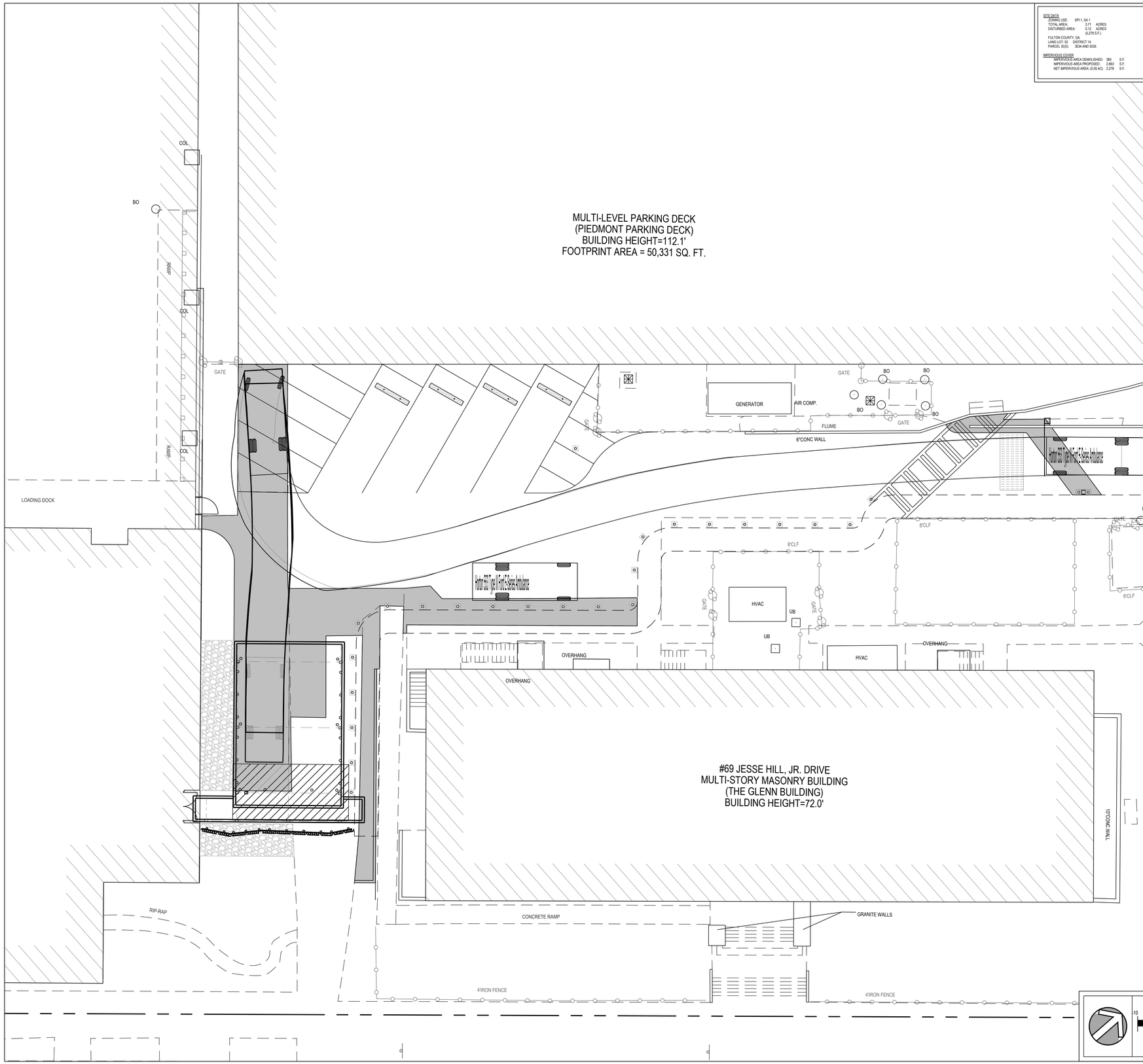
01/31/2024



SITE DATA
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(5,279 S.F.)
FULTON COUNTY, GA
LAND LOT 52 DISTRICT 14
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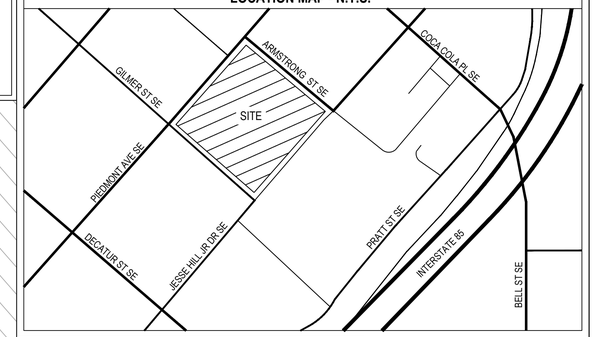
IMPERVIOUS AREA DEMOLISHED: 385 S.F.
IMPERVIOUS AREA PROPOSED: 2,663 S.F.
NET IMPERVIOUS AREA: (0.05 AC) 2,278 S.F.

LOCATION MAP - N.T.S.



LAYOUT LEGEND

- EXISTING BUILDING
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING PAVEMENT
- PROPOSED CONCRETE PAVING
- PROPOSED MILL AND OVERLAY
- EXISTING FENCING
- EXISTING GUARDRAIL
- PROPOSED FENCING
- PROPOSED GUARDRAIL
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- PROPOSED STRIPING
- PROPOSED BOLLARDS

NOTES

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

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GRAPHIC SCALE
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(IN FEET)
1 INCH = 10 FT.

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LAND PLANNING
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 022467
WESLEY SLOAN REED

PROJECT NAME:
GRADY CORRELL AMBULANCE ENTRANCE
FULTON COUNTY, GEORGIA
80 GILMER STREET
ATLANTA, GA 30303

REVISION

01	09/08/2025	PERMITTING SET
02	09/24/2025	OWNER COMMENTS
03	10/24/2025	CD PACKAGE

AMBULANCE TURN AROUND

SCALE:	1" = 30'
DATE:	08/12/2025
DRAWN BY:	I. TABOADA
PROJECT ENGINEER:	W. REED, P.E.
QA/QC REVIEWER:	

EBERLY PROJECT NUMBER:
25-115

SHEET NUMBER:
C3.1
ISSUED FOR CONSTRUCTION

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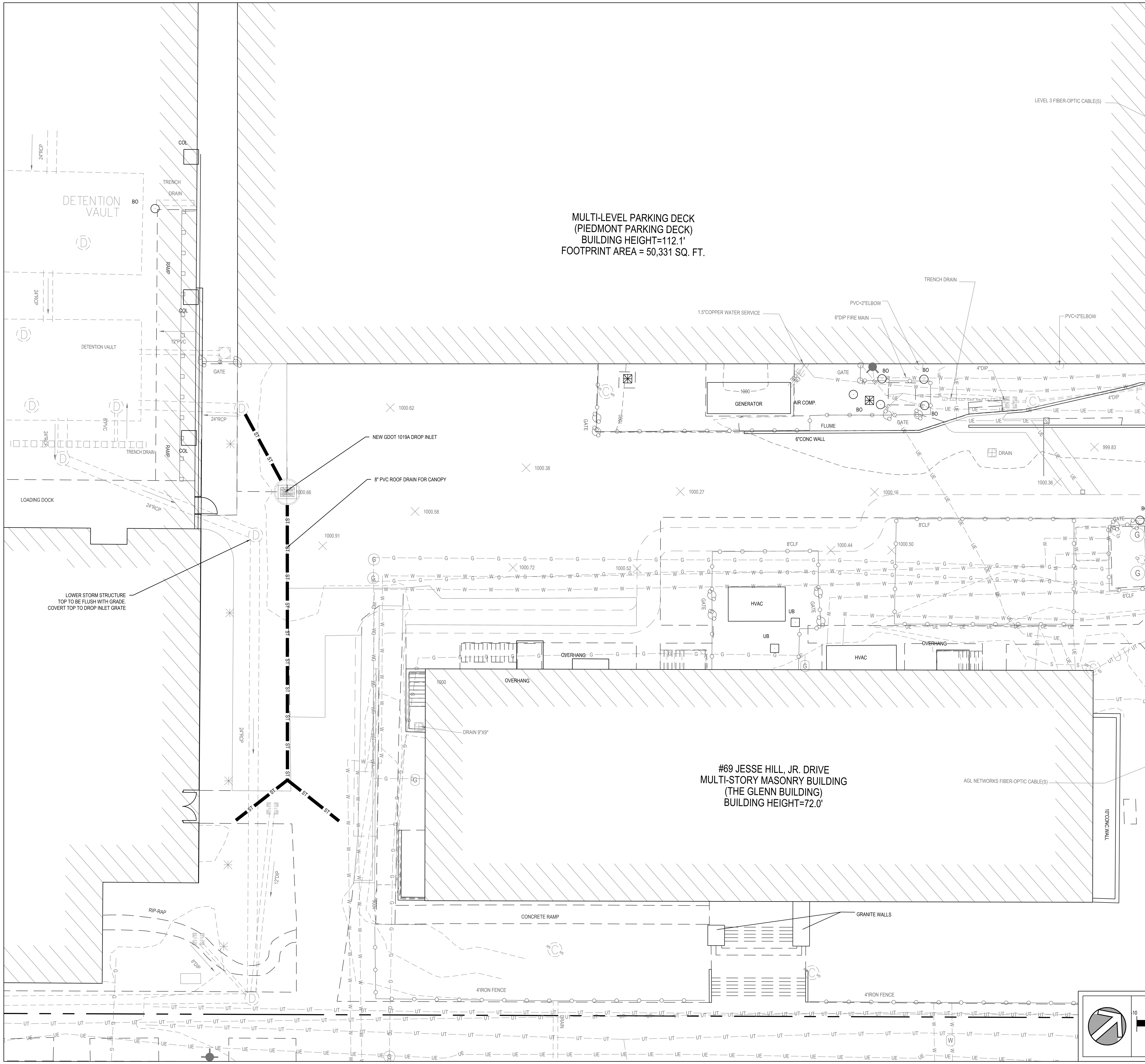
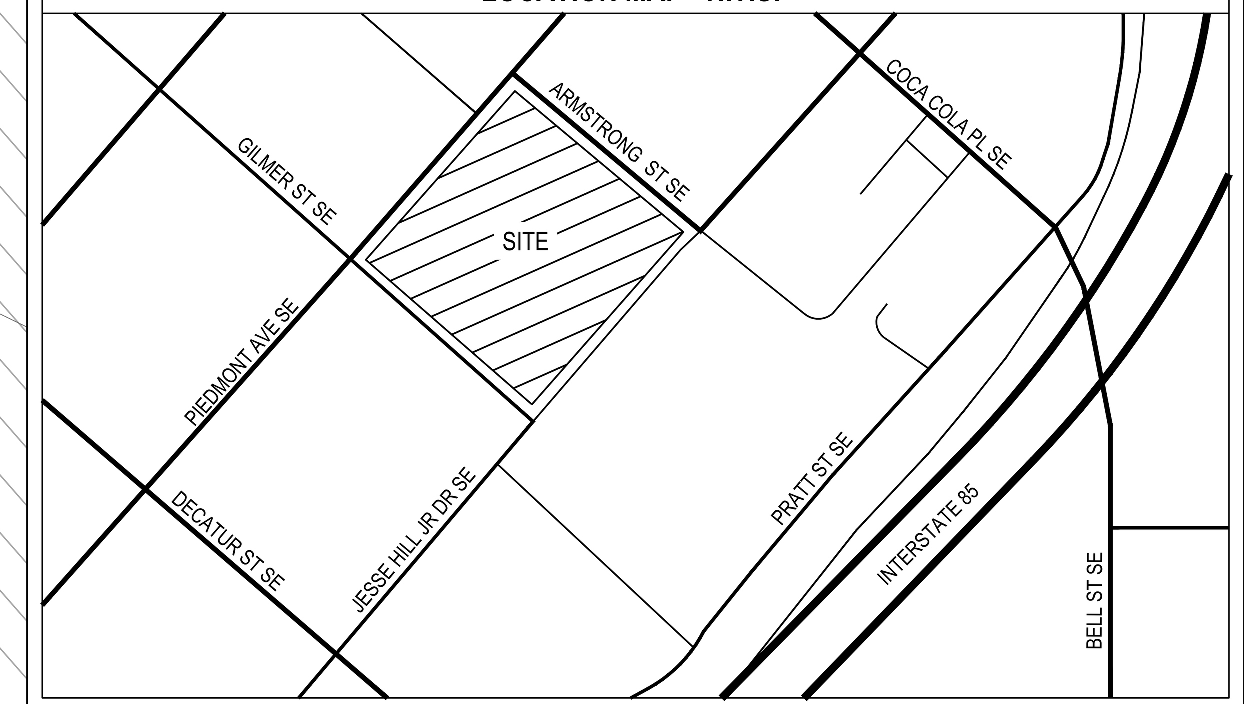


LOCATION MAP - N.T.S.



GENERAL NOTES

1. RAMP RUNS SHALL HAVE RUNNING SLOPE NOT STEEPER THAN 1:12.
2. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.
3. CHANGES IN LEVEL OTHER THAN RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
4. RAMPS SHALL HAVE LANDING AT THE TOP AND THE BOTTOM OF EACH RAMP RUN
5. TOP LANDINGS SHALL BE 60 INCHES WIDE MINIMUM
6. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM
7. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING
8. RAMP RUNS SHALL HAVE COMPLIANT HANDRAILS
9. A CURB, 2 INCHES HIGH MINIMUM, OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP.
10. LANDING SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.
11. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS OR RAMPS
12. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
13. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
14. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
15. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIRS NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
16. ALL SPOT ELEVATIONS ARE AT BOTTOM /FACE OF CURB UNLESS NOTED OTHERWISE.

GRADING LEGEND

Symbol	Description
100 (dashed)	EXISTING MAJOR CONTOUR
102 (dashed)	EXISTING MINOR CONTOUR
× 101.1	EXISTING SPOT ELEVATION
100 (solid)	PROPOSED MAJOR CONTOUR
102 (solid)	PROPOSED MINOR CONTOUR
BWG: 101.1 × 01.1	PROPOSED SPOT ELEVATION
	PROPOSED DRAINAGE ARROW
	PROPOSED RETAINING WALL

SPOT ELEVATION LEGEND
BWG: GROUND ELEVATION AT BOTTOM OF WALL
TWG: GROUND ELEVATION AT TOP OF WALL
TS / BS: TOP & BOTTOM OF STAIR ELEVATIONS

SPOT ELEVATIONS SHOWN REPRESENT THE ELEVATION AT THE FACE OF THE CURB UNLESS OTHERWISE NOTED

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DRAINAGE PLAN

SCALE: 1" = XX'
DATE: 08/12/2025
DRAWN BY: I. TABOADA
PROJECT ENGINEER: W. REED, P.E.
QA/QC REVIEWER:

EBERLY PROJECT NUMBER: 25-115

SHEET NUMBER: C4.0

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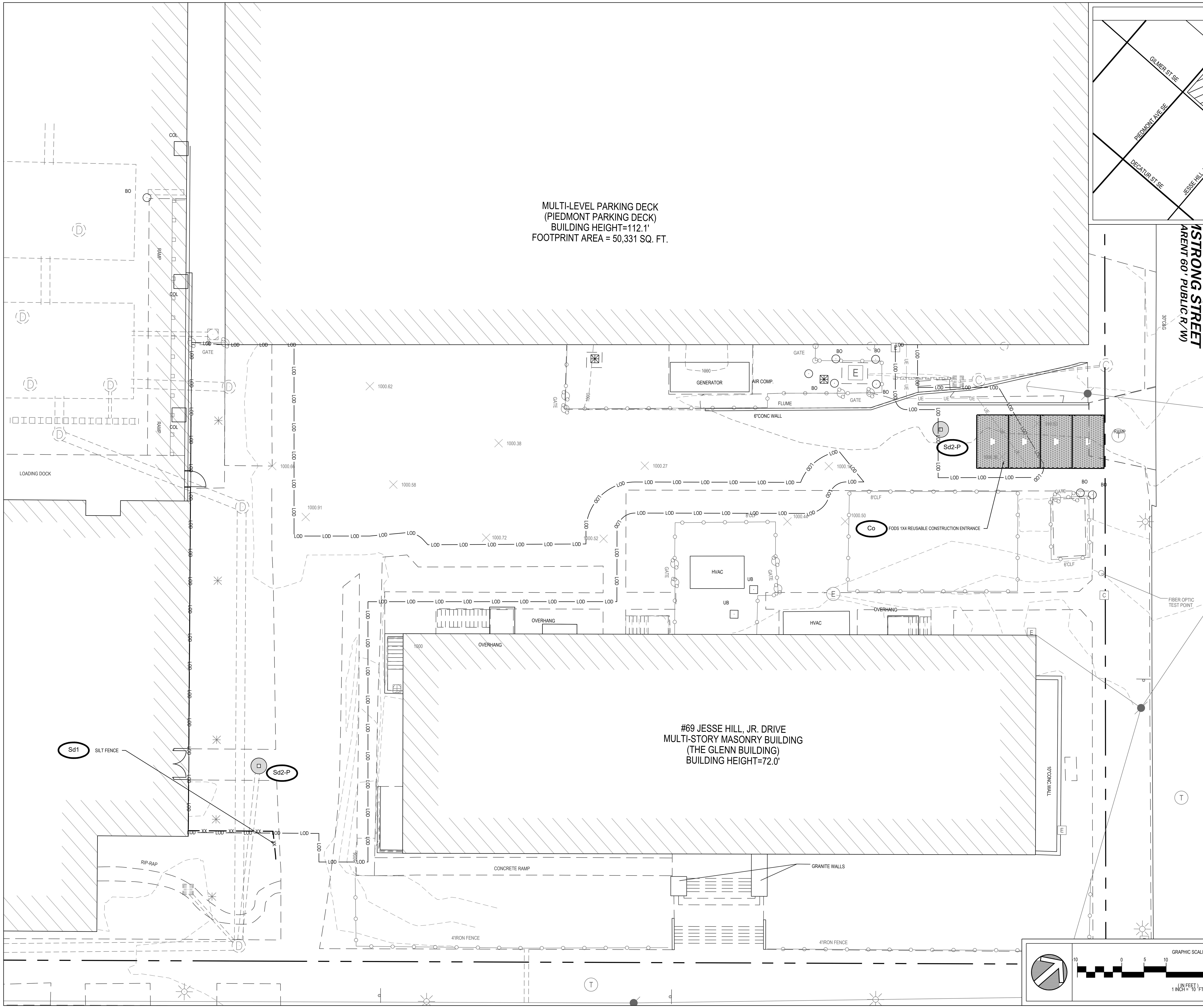

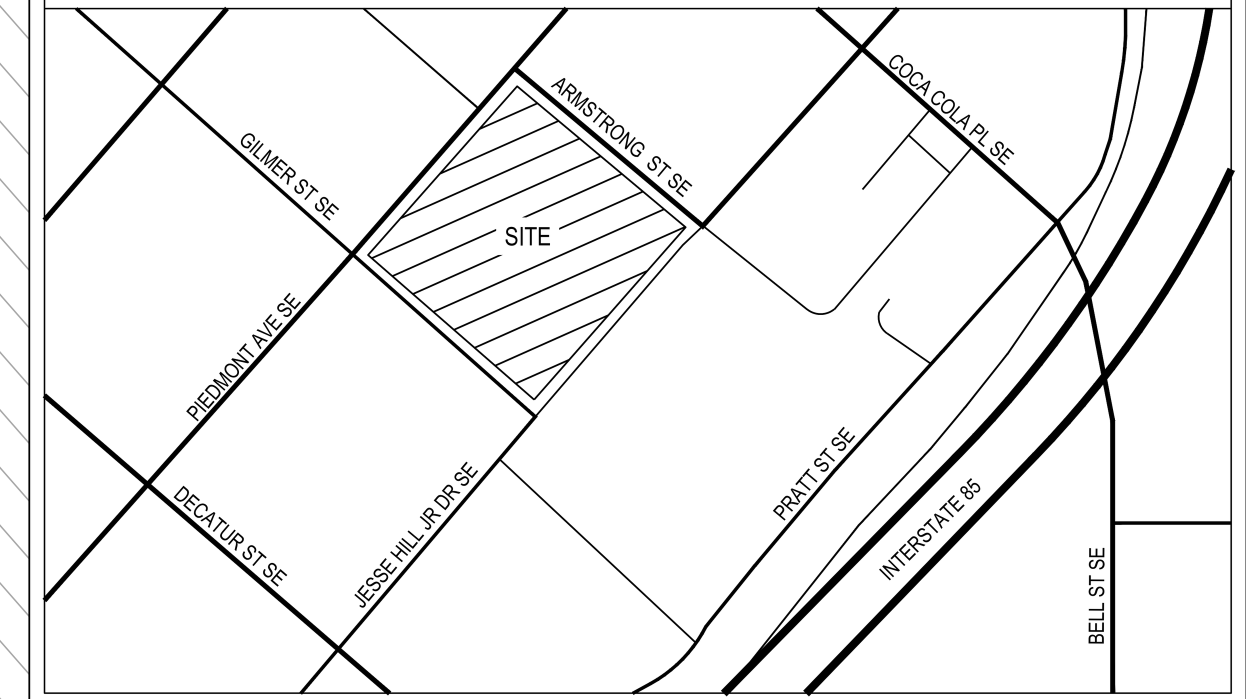

EROSION CONTROL NOTES

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.
8. ALL TOPSOIL IS TO BE COMPACTED AND WALKED-IN PRIOR TO APPLICATION OF SEED OR SOD.
9. STATE WATERS WERE NOT LOCATED ON THE SITE.
10. SEE TREE PROTECTION AND REPLACEMENT PLAN FOR TREE REMOVAL WITHIN THE LIMITS OF DISTURBANCE.
11. 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
12. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING
13. 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.
14. 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.
15. 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.
16. 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.
17. 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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02	09/24/2025	OWNER COMMENTS
03	10/24/2025	CD PACKAGE

ES&PC PLAN

SCALE:	1" = 10'
DATE:	08/12/2025
DRAWN BY:	I. TABOADA
PROJECT ENGINEER:	W. REED, P.E.
QA/QC REVIEWER:	

EBERLY PROJECT NUMBER: 25-115

SHEET NUMBER: EC1.0

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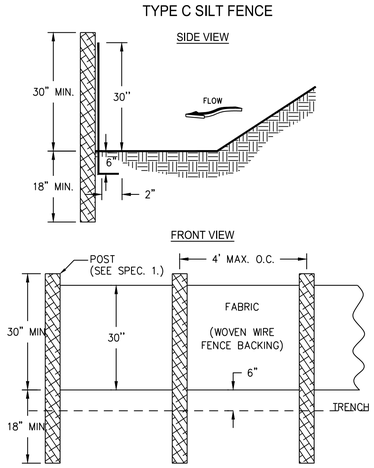
TYPE C SILT FENCE



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 ¼ 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.	

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 80% 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"

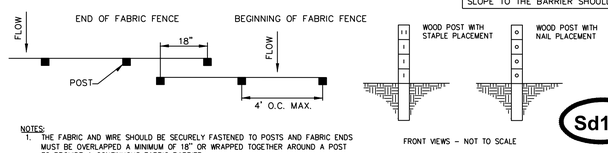
TABLE 6–27.3 FASTENERS FOR WOOD POSTS

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

PLAN – OVERLAP AT FABRIC ENDS



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.

Sd1-S SILT FENCE TYPE SENSITIVE

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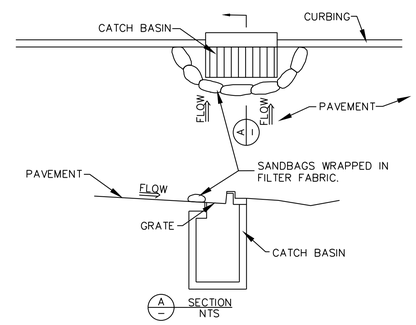

NOTE:
1.) INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2.) ADJUST THE NUMBER OF SANDBAGS LAID ON THEIR SIDE TO CONTROL FLOW THROUGH RATE.

MAINTENANCE:

1. THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN, AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY. FOR EXCAVATED INLET SEDIMENT TRAPS, SEDIMENT SHALL BE REMOVED WHEN ONE–HALF OF THE SEDIMENT STORAGE CAPACITY HAS BEEN LOST TO SEDIMENT ACCUMULATION. SOD INLET PROTECTION SHALL BE MAINTAINED AS SPECIFIED IN DS4 – DISTURBED AREA STABILIZATION (WITH SODDING).
2. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP, DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED ARE SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

Sd2-P CURB INLET PROTECTION, SAND OR ROCK BAGS

NOT TO SCALE

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DRAWN BY:	I. TABOADA
PROJECT ENGINEER:	W. REED, P.E.
QA/QC REVIEWER:	

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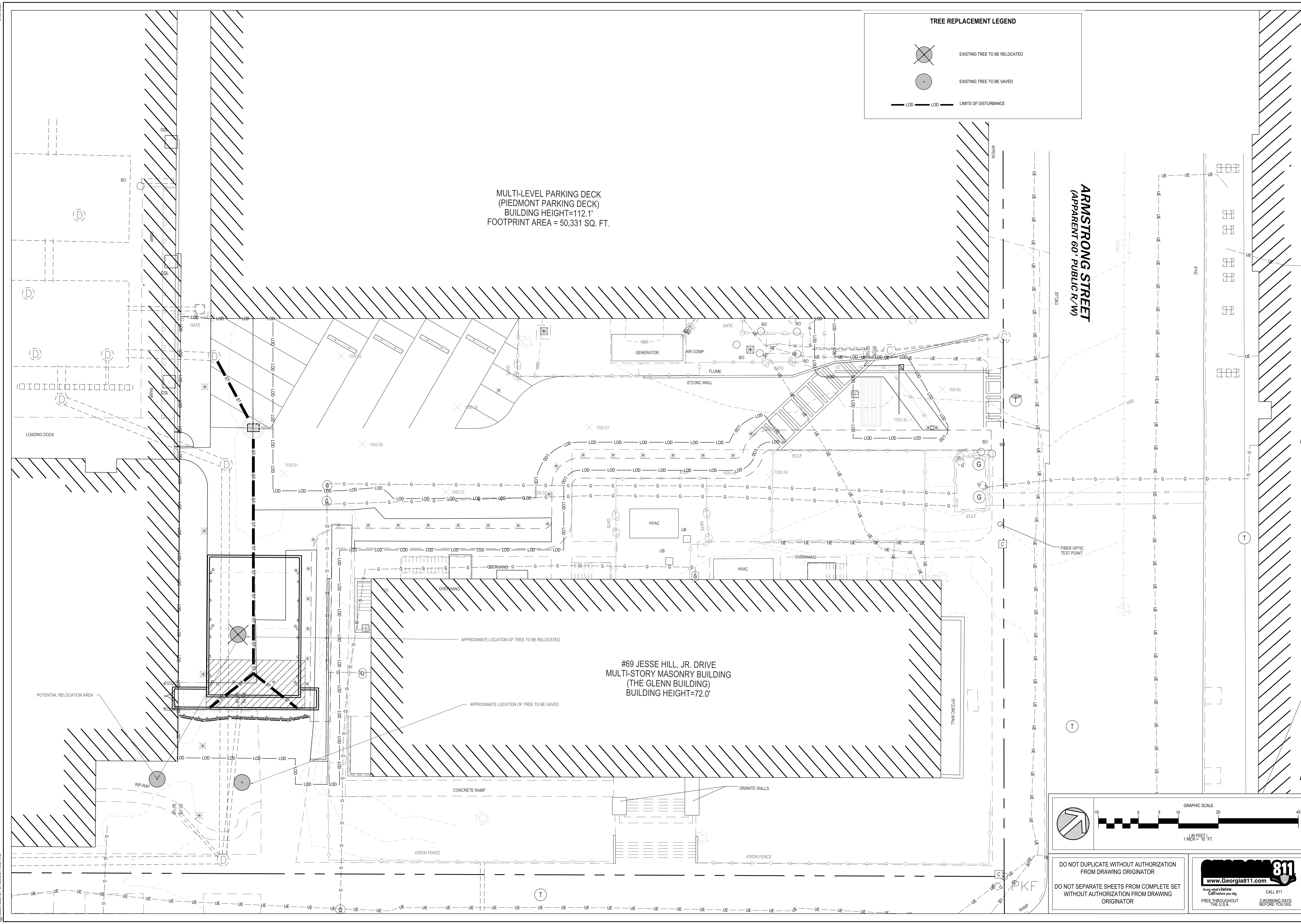

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OVERALL TREE REPLACEMENT PLAN

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DATE:	08/12/2025
DRAWN BY:	I. TABOADA
PROJECT ENGINEER:	W. REED, P.E.
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ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
DEVICE ABBREVIATION TAGS:	
6C	POKE-THRU WITH 6" CORE DRILL
8C	POKE-THRU WITH 8" CORE DRILL
4G	FOUR-GANG FLOOR BOX
6G	SIX-GANG FLOOR BOX
8G	EIGHT-GANG FLOOR BOX
AV	DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART
C	RECEPTACLE CONTROLLED PER ASHRAE 90.1 (2010); PROVIDE POWER PACK FOR RECEPTACLE CIRCUIT. TO BE CONTROLLED THROUGH LOCAL ROOM OCCUPANCY SENSOR(S); PROVIDE DEVICE WITH BLUE DOT OR UNIVERSAL POWER SYMBOL
ETR	EXISTING TO REMAIN
H	HOSPITAL GRADE
IG	ISOLATED GROUND (ORANGE DEVICE)
RL	RELOCATED
TR	TAMPER RESISTANT
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT
U	DUPLEX RECEPTACLE WITH (2) USB PORTS
WP	WEATHERPROOF
S_a	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_K	SINGLE POLE KEY SWITCH
S_T	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH
S_{OSab}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY
S_{OS}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
S_{VS}	WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH
$S_{D.OS}$	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_{LVO}	LOW VOLTAGE OVERRIDE SWITCH
S_{LVD}	LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING
S_F	FAN SWITCH
S_M	MOTOR RATED SWITCH
S_D	DIMMER SWITCH, LINE VOLTAGE
OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
DL	DAYLIGHT SENSOR CEILING MOUNTED
DL	DAYLIGHT SENSOR WALL MOUNTED
VS	VACANCY SENSOR CEILING MOUNTED
VS	VACANCY SENSOR WALL MOUNTED
PC	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
	NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN LEGEND
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE; EACH RECEPTACLE ON SEPARATE CIRCUIT (PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE)
	SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE
	GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE" WEATHERPROOF COVER, WEATHER-RESISTANT LISTED
	TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	GFCI RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE, CEILING MOUNTED
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE, CEILING MOUNTED
	PEDESTAL MOUNTED DUPLEX RECEPTACLE
	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
	FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE. VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED
	JUNCTION BOX WALL MOUNTED
	JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE
	WALL MOUNTED FURNITURE FEED POWER CONNECTION
PP	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS
PP	POWER POLE WITH POWER & DATA OUTLETS
P	MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS
	MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED
	CLOCK RECEPTACLE, WALL MOUNTED
GND	GROUND BUS BAR, COPPER
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS
EPO	EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER
	OVERHEAD DOOR PUSHBUTTON CONTROL STATION
	PUSHBUTTON STATION
	MOTOR CONNECTION
MD	MOTORIZED DAMPER CONNECTION
VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROL PANEL
BAS	BUILDING AUTOMATION SYSTEM CONTROL PANEL
LCP	LIGHTING CONTROL PANEL

SYMBOL	DESCRIPTION
MH	MANHOLE
PB	PULLBOX
HH	HANDHOLE
T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
30AR NF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NF = NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
30AR 20AF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT AF = AMPERE RATING OF FUSE AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
MCP AMPERE RATING L#3 3R	# OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED
	CONDUIT CONCEALED ABOVE CEILING OR IN WAL
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR
	CONDUIT HOMERUN TO ELECTRICAL PANEL
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUBBED OUT OR UP
	CONDUIT CONTINUED
	FLEXIBLE CONDUIT
	CONDUIT SEAL-OFF FITTING
	GROUND OR GROUND ROD AS NOTED
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)

LIGHTING

SYMBOL	DESCRIPTION
	STRIP FIXTURE
A	FIXTURE TYPE
2 B ZX/X	FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER
	FIXTURE RECESSED, PENDANT OR SURFACE CEILING
	DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO CRITICAL CIRCUIT, OPTIONAL STANDBY BRANCH, OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK, "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) FULL SHADING INDICATE FIXTURE CONNECTED TO LIFE SAFETY CIRCUIT.
	FIXTURE, WALL MOUNTED
	RECESSED, PENDANT OR SURFACE CEILING
	WALL MOUNTED
	CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACCENT LIGHT, FACADE LIGHT
	TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS)
	EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED
	LINEAR RECESSED, PENDANT OR SURFACE CEILING
	EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS
	EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE
	EXIT LIGHT, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE
	EXIT LIGHT, WALL MOUNTED

LIGHTNING PROTECTION SYSTEM

SYMBOL	DESCRIPTION
CI	CLASS I MAIN CONDUCTOR CABLE
CII	CLASS II MAIN CONDUCTOR CABLE
	TEE SPLICE
	FOUR-WAY SPLICE
	BONDING PLATE
	PIPE CLAMP FOR PLUMBING VENT THRU ROOF.
	AIR TERMINAL; PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS
P	PARAPET MOUNTED AIR TERMINAL
F	FLAT ROOF MOUNTED OR MECHANICAL
G	COUNTERPOISE CONDUCTOR
DN DN	THRU-ROOF CONDUCTOR
	GROUND TERMINAL
	BONDING CONDUCTOR
DN	DOWN CONDUCTOR

FIRE ALARM / DETECTION SYSTEM

SYMBOL	DESCRIPTION
NFPA / LEGACY	
F F	MANUAL PULL STATION
S	CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS
I S	I = IONIZATION
D S	DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
S BR B R	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER
H H	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED
S S	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY
D	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
C F XICD XICD	COMBINATION HORNSTROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
F H	HORN ONLY, WALL MOUNTED
F XICD	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
C FS XICD	COMBINATION HORNSTROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
S SS	SPEAKER ONLY, CEILING MOUNTED
S SS	SPEAKER ONLY, WALL MOUNTED
F	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED
F	FIREMAN'S PHONE JACK
VS TS	SPRINKLER TAMPER SWITCH CONNECTION
WS FS	SPRINKLER WATERFLOW SWITCH CONNECTION
PS PS	PRESSURE SWITCH CONNECTION
DH	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
FACP FACP	FIRE ALARM CONTROL PANEL
FATC FATC	FIRE ALARM TERMINAL CABINET
FAA FAA	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
EVAC EVAC	VOICE EVACUATION PANEL
MNS MNS	MASS NOTIFICATION SYSTEM PANEL
DACT DACT	MASS NOTIFICATION SYSTEM PANEL

VOICE AND DATA SYSTEMS

SYMBOL	DESCRIPTION
C,W,WP,PM XXYZ HH*	TELECOMMUNICATIONS OUTLET, WALL-MOUNTED, 18" AFF U.N.O. PROVIDE DOUBLE-GANG 2-1/8"D BACKBOX & SINGLE-GANG PLASTER RING, WITH 1" CONDUIT STUBBED UP AND ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE PULL STRINGS AND SMOOTH BUSHINGS FOR ALL CONDUITS. C= COUNTERTOP HEIGHT. INSTALL 6" ABOVE COUNTERTOP OR BACKSPLASH TO CENTER OF OUTLET. COORDINATE WITH ARCHITECTURAL ELEVATIONS. W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED 52" AFF TO CENTER OF OUTLET AND MINIMUM 12" FROM OTHER WALL MOUNTED EQUIPMENT. WP= WEATHERPROOF PM= PATIENT MONITORING X= MOUNTING TYPE: F= FLUSH S= SURFACE M= MODULAR FURNITURE ADAPTER L= FLOOR R= RACEWAY RIO= ROUGH-IN ONLY RJ45 = RJ-45 PLUG ONLY N= NUMBER OF DATA CABLES IN THE FACEPLATE Y= NUMBER OF ANALOG VOICE CABLES IN THE FACEPLATE Z= NUMBER OF COAXIAL CABLES IN THE FACEPLATE HH*= INSTALLATION HEIGHT AFF TO CENTER OF OUTLET, COORDINATE WITH ELECTRICAL OUTLETS AND ARCHITECTURAL ELEVATIONS.
XN	TELECOMMUNICATIONS OUTLET, MOUNTED ON FINISHED CEILING XN= AS DESCRIBED FOR WALL-MOUNTED TELECOMMUNICATIONS OUTLET
WAP XN	TELECOMMUNICATIONS OUTLET FOR WIRELESS ACCESS POINT, CEILING MOUNTED XN= AS DESCRIBED FOR WALL-MOUNTED TELECOMMUNICATIONS OUTLET
WAP XN	TELECOMMUNICATIONS OUTLET FOR WIRELESS ACCESS POINT, WALL-MOUNTED XN= AS DESCRIBED FOR WALL-MOUNTED TELECOMMUNICATIONS OUTLET

ACCESS CONTROL SYSTEMS

SYMBOL	DESCRIPTION
ACP	ACCESS CONTROL PANEL
CR	CARD READER, WALL MOUNTED 48" AFF, U.N.O.
CK	CARD READER WITH KEYPAD, WALL MOUNTED 48" AFF, U.N.O.
BR	BIOMETRIC READER, WALL MOUNTED 48" AFF, U.N.O.
KP	KEYPAD, WALL MOUNTED 48" AFF, U.N.O.
KS	KEYED SWITCH, WALL MOUNTED 48" AFF, U.N.O.
AO	AUTOMATIC DOOR OPERATOR
EL	ELECTRONIC LOCK, REFER TO DOOR HARDWARE SCHEDULE FOR TYPE. CONTRACTOR SHALL COORDINATE WIRING REQUIREMENTS AND HARDWARE VOLTAGE WITH APPROVED DOOR HARDWARE. CONTRACTOR SHALL WIRE COMPLETE.
ML	ELECTROMAGNETIC LOCK
DPS	DOOR POSITION SWITCH
REX	REQUEST TO EXIT DEVICE, IR SENSOR, MOUNT CENTERED ABOVE DOOR FRAME.
MG	PANEL INTERFACE MODULE FOR WIRELESS LOCKS, WALL MOUNTED 84" AFF, U.N.O.
IS	INTERCOM DOOR STATION, WALL MOUNTED 48" AFF, U.N.O.
IM	INTERCOM MASTER STATION, DESK MOUNTED
IM	INTERCOM MASTER STATION, WALL MOUNTED 48" AFF, U.N.O.
A,W,R	DOOR RELEASE BUTTON, WALL MOUNTED 48" AFF, U.N.O. A= ADA ACCESSIBLE PUSH PAD W= HAND WAVE SENSOR R = REQUEST TO EXIT
D	DOOR RELEASE BUTTON, MOUNTED UNDER WORK SURFACE
GP	GATE PEDESTAL
GO	ELECTRIC GATE OPERATOR
D	DURESS BUTTON, WALL MOUNTED 48" AFF, U.N.O.
D	DURESS BUTTON, MOUNTED UNDER WORK SURFACE
DB HI	DOOR BELL BUTTON, WALL MOUNTED 48" AFF, U.N.O. HI= HEARING IMPAIRED
DC HI	DOOR BELL, BUZZER, OR CHIME ,WALL MOUNTED 96" AFF, U.N.O. HI= HEARING INPAIRED
	DASHED LINE BETWEEN SECURITY SYMBOLS INDICATES ASSOCIATED CONNECTIONS.

VIDEO SURVEILLANCE SYSTEMS

SYMBOL	DESCRIPTION
X	FIXED VIDEO SURVEILLANCE CAMERA, WALL MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	FIXED VIDEO SURVEILLANCE CAMERA, CEILING MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	PTZ VIDEO SURVEILLANCE CAMERA, WALL MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	PTZ VIDEO SURVEILLANCE CAMERA, CEILING MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	180° VIDEO SURVEILLANCE CAMERA, WALL MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	180° VIDEO SURVEILLANCE CAMERA, CEILING MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	270° VIDEO SURVEILLANCE CAMERA, WALL MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	360° VIDEO SURVEILLANCE CAMERA, WALL MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
X	360° VIDEO SURVEILLANCE CAMERA, CEILING MOUNTED X= TYPE OR CAMERA NUMBER. SEE CAMERA SCHEDULE AND/OR DETAIL SHEETS FOR MORE INFORMATION
PC	SECURITY SYSTEM WORKSTATION, DESK MOUNTED

ABBREVIATIONS

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ABV CLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GUAGE
BC	BARE COPPER
BIL	BASIC IMPULSE LEVEL
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BRKR OR BKR	BREAKER
C	CONDUIT OR RACEWAY
CAB	CABINET
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLEC	CLOCK EQUIPMENT CABINET
CLG	CEILING
CO	CONDUIT OR RACEWAY ONLY
COAX	COAXIAL CABLE
COND	CONDUCTOR
CONN	CONNECTION
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DEMAND FACTOR
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DO	DRAW OUT
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
EDH	ELECTRIC DUCT HEATER
EMT	ELECTRIC METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EOR	ENGINEER OF RECORD
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FATC	FIRE ALARM TERMINAL CABINET
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FM	FACTORY MUTUAL
FPU	FAN POWERED UNIT
FT	FEET
GF	GROUND FAULT
GFA	GROUND FAULT ALARM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND, G	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL

SECURITY SYSTEMS GENERAL NOTES

1. SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE TECHNOLOGY FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETALS AND IN THE TECHNOLOGY SPECIFICATIONS.
2. ANY DATA RUNS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION 27100. IF NOT SPECIFIED, FIBER OPTIC CABLE SHALL BE A MINIMUM 2-STRAND OM3 CABLE WITH A JACKET RATED FOR THE APPLICATION (OSP, ETC). PROVIDE HARDENED FIBER OPTIC TRANSCEIVER, LIGHTNING PROTECTION AND POWER SUPPLY AT POLE AS CAMERA LOCATION AS SPECIFIED. IF NOT SPECIFIED, VERIFY PART NUMBERS WITH ENGINEER.
3. ALL DOUBLE DOORS THAT ARE SHOWN WITH DOOR POSITION SWITCHES ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
4. ALL DELAYED EGRESS LOCKS AND MAGNETIC LOCKS SHALL RECEIVE A FIRE ALARM RELAY TO RELEASE THE DOOR UPON ALARM AS REQUIRED BY CODE.
5. ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR CABS ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN.
6. LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION.
7. SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.

ABBREVIATIONS (CONT.)

IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM
ICU	INTENSIVE CARE UNIT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
IT	INSTANTANEOUS TRIP
JB OR J-BOX	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LP	LIGHTNING PROTECTION
LT	LIGHT
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN SERVICE DISTRIBUTION PANEL
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SERVICE SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MUX	MULTIPLEX (TRANSPONDER) PANEL
MVA	MEGA VOLT AMPS
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NL	NON-LINEAR
NO	NORMALLY OPEN OR NUMBER
OL	OVERLOAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
PWR	POWER
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS, GRC	RIGID GALVANIZED STEEL CONDUIT
RLA	RUNNING LOAD AMPERES
RMS	ROOT MEAN SQUARE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC	SECONDARY
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SST	SOLID STATE TRIP
STD	SHORT TIME TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVEC	TELEVISION EQUIPMENT CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
UTIL	UTILITY
V	VOLT
VA	VOLTAMPERE
VAR	VOLT AMPERE REACTIVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFR	TRANSFER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
E001	ELECTRICAL SYMBOLS, LEGEND, NOTES, AND INDEX
E002	ELECTRICAL GENERAL NOTES
E003	TECHNOLOGY SPECIFICATIONS
E004	ELECTRICAL - SITE PLAN
E101	ELECTRICAL - POWER & TECHNOLOGY
E201	ELECTRICAL - LIGHTING
E601	ELECTRICAL DETAILS
E602	ELECTRICAL DETAILS & SCHEDULES

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THINK. LISTEN. CREATE.

GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE044777 TAWAN C. MARTIN 10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE

ELECTRICAL SYMBOLS, LEGEND, NOTES, AND INDEX

SHEET NUMBER

E001

10/24/2025 12:29:28 PM

APPLICABLE CODES

ALL WORK UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE AND IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS INCLUDING THE REGULATIONS OF GOVERNING LOCAL, STATE, COUNTY AND OTHER APPLICABLE CODES. REFER TO SPECIFICATIONS FOR ADDITIONAL CODE REQUIREMENTS:

BUILDING CODES:
- INTERNATIONAL BUILDING CODE, WITH GA AMENDMENTS (2018)
- INTERNATIONAL ENERGY CONSERVATION CODE, WITH GA AMENDMENTS (2015)
- INTERNATIONAL FIRE CODE (2018)

ADDITIONAL CODES, STANDARDS, AND REQUIREMENTS
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
2. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
3. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
4. REQUIREMENTS OF LOCAL POWER COMPANY.
5. THE AMERICANS WITH DISABILITIES ACT (ADA).
6. OWNER'S PUBLISHED DESIGN STANDARDS.
7. FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES (2014)

ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS, AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LAB, AS DEFINED BY OSHA. WHERE NO LABELING OR LISTING SERVICE IS AVAILABLE FOR CERTAIN TYPES OF EQUIPMENT, TEST DATA SHALL BE SUBMITTED TO VALIDATE THAT EQUIPMENT MEETS OF EXCEEDS AVAILABLE STANDARDS.

NATIONAL FIRE PROTECTION (NFPA) STANDARDS:
- NFPA 10, 2018 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
- NFPA 13, 2019 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
- NFPA 20, 2019 EDITION, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.
- NFPA 30, 2021 EDITION, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE.
- NFPA 37, 2021 EDITION, STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES.
- NFPA 45, 2019 EDITION, STANDARD ON FIRE PROTECTION FOR LABORATORIES USING CHEMICALS.
- NFPA 54, 2021 EDITION, NATIONAL FUEL GAS CODE.
- NFPA 70, 2023 EDITION, NATIONAL ELECTRICAL CODE®.
- NFPA 72, 2019 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE.
- NFPA 75, 2020 EDITION, STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT.
- NFPA 80, 2019 EDITION, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.
- NFPA 85, 2019 EDITION, BOILER AND COMBUSTION SYSTEMS HAZARDS CODE.
- NFPA 88A, 2019 EDITION, STANDARD FOR PARKING STRUCTURES.
- NFPA 90A, 2021 EDITION, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
- NFPA 90B, 2021 EDITION, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.
- NFPA 92, 2018 EDITION, STANDARD FOR SMOKE-CONTROL SYSTEMS.
- NFPA 99, 2021 EDITION, HEALTH CARE FACILITIES CODE.
- NFPA 101, 2021 EDITION, LIFE SAFETY CODE®.
- NFPA 110, 2019 EDITION, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.
- NFPA 111, 2019 EDITION, STANDARD ON STORED ELECTRICAL ENERGY EMERGENCY AND STANDBY POWER SYSTEMS.
- NFPA 780, 2020 EDITION, INSTALLATION OF LIGHTNING PROTECTION SYSTEMS

ELECTRICAL DEMOLITION NOTES

1. DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN DASHED LINE TYPE ARE EXISTING TO BE DEMOLISHED; DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN LIGHT (SCREENED) SOLID LINE TYPE ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

2. EXISTING EQUIPMENT, LIGHT FIXTURES AND DEVICES SHOWN ARE BASED ON FIELD SURVEYS AND RECORD DRAWINGS PROVIDED BY THE OWNER, AND ARE NOT NECESSARILY INCLUSIVE OF ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND DEVICES WITHIN PROJECT AREAS. IT IS THE INTENT THAT THE DEMOLITION PLANS PROVIDE A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION WHETHER INDICATED ON THE PLANS OR NOT.

3. EXISTING CIRCUITING SHOWN IS BASED ON RECORD DRAWINGS AND THE SURVEYED PANEL DIRECTORIES, WHERE THEY WERE AVAILABLE. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT, WHERE SHOWN ON THE PLAN DRAWINGS, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.

4. WHERE EXISTING DEVICES ARE INDICATED TO REMAIN OR BE RELOCATED, ARE WITHIN THE SCOPE OF THIS PROJECT AND EXISTING CIRCUITING INFORMATION IS UNAVAILABLE, CONTRACTOR IS TO PROVIDE CIRCUIT TRACING TO IDENTIFY PANEL AND CIRCUIT SERVING THE DEVICE TO AND PROVIDE THAT INFORMATION TO THE ARCHITECT/ENGINEER PRIOR TO ROUTING CONDUITS AND WIRING FOR NEW DEVICES AND EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT.

5. WHERE EXISTING DEVICES ARE TO REMAIN, CONTRACTOR MUST EXTEND EXISTING CIRCUITING WHERE NECESSARY TO MAINTAIN CONTINUITY OF CIRCUIT.

6. COORDINATE WITH THE OWNER FOR DISPOSITION OF ELECTRICAL ITEMS TO BE DEMOLISHED. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS SUCH AS COVERPLATES, RECEPTACLES, LIGHT FIXTURES, PANELBOARDS, TRANSFORMERS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH THE OWNER PRIOR TO START OF DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.

7. COORDINATE EXACT AREAS, WALLS, CEILINGS, ETC. TO BE DEMOLISHED WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND MECHANICAL DEMOLITION PLANS.

8. WHERE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT ARE INDICATED TO BE DEMOLISHED, REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL OR TO NEAREST JUNCTION BOX TO MAINTAIN CIRCUIT CONTINUITY OF DEVICES AND EQUIPMENT TO REMAIN. WHERE PANELS ARE TO REMAIN, TURN BREAKER TO "OFF" POSITION AND LABEL THE CIRCUIT AS "SPARE" ON THE PANEL DIRECTORY.

9. ALL AREAS OUTSIDE THE SCOPE OF CONSTRUCTION ARE TO REMAIN ENERGIZED. COORDINATE PHASING WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO DEMOLITION OF ANY ITEM WHICH MAY RESULT IN INTERRUPTION OF POWER.

10. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF AREA REQUIRING DEMOLITION AND ADDITIONAL INFORMATION ON ELECTRICAL DEMOLITION WITHIN THAT AREA. DISCONNECT ELECTRICAL SERVICE TO ALL EQUIPMENT BEING REMOVED. DEMOLITION SHALL BE PHASED AS REQUIRED BY DIVISION 1, OR DIRECTED BY THE OWNER.

11. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED OR RENOVATED AREA. CAP BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.

12. ELECTRICAL DEVICES CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC., AND NOT NOTED ON THE DEMOLITION DRAWINGS ARE TO BE REMOVED AS REQUIRED, UNLESS SHOWN AS EXISTING TO REMAIN.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS. REPAIRS ARE TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED AND SHALL MATCH IMMEDIATELY ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND COLOR.

14. PROVIDE BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. MATCH COLOR OF NEW ADJACENT DEVICE COVERPLATES.

15. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.

16. COORDINATE ALL POWER INTERRUPTION WITH CONSTRUCTION MANAGER, OWNER, LANDLORD, AND UTILITY COMPANY (WHERE APPLICABLE) AND DO NOT INTERRUPT POWER WITHOUT WRITTEN PERMISSION. PROVIDE A MINIMUM OF ONE WEEK'S WRITTEN NOTIFICATION PRIOR TO WHEN POWER IS DESIRED TO BE INTERRUPTED. CONTRACTOR SHALL INVESTIGATE AND IDENTIFY ALL LOADS TO BE AFFECTED BY THE REQUESTED INTERRUPTION. CONTRACTOR SHALL SUBMIT WRITTEN SEQUENCE OF STEPS FOR EACH SHUTDOWN ALONG WITH THE ESTIMATED INTERRUPTION DURATIONS. MAKE ARRANGEMENTS TO MAINTAIN POWER TO ALL EXISTING NECESSARY LIGHTING, DEVICES AND EQUIPMENT AS NEEDED AND REQUESTED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.

17. EXERCISE EXTREME CAUTION WHEN REMOVING/ RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.

18. INFORMATION INDICATED IN THE DEMOLITION PORTION OF THE CONTRACT DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD VERIFY ELECTRICAL CIRCUIT HOMERUNS TO ALL ELECTRICAL ITEMS SCHEDULED TO BE DEMOLISHED AND PERFORM THE WORK AS INTENDED AND DEPICTED ON THE DRAWINGS.

19. UPDATE ALL EXISTING ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES AS NECESSARY TO REFLECT FINAL AS-BUILT CONDITIONS AT THE END OF CONSTRUCTION.

20. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED.

21. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY AND THE OWNER PRIOR TO COMMENCEMENT OF WORK.

22. PROVIDE ANY NECESSARY REPROGRAMMING OF EXISTING BUILDING FIRE ALARM SYSTEMS TO DISABLE FIRE ALARM DEVICES THAT ARE BEING DISCONNECTED AND REMOVED, AND FOR ANY NEW DEVICES THAT ARE ADDED, AS PART OF BID PRICE.

23. ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE DISRUPTION TO THESE OTHER SPACES. ENSURE THAT ALL CONDUITS, NEW OR EXISTING WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED IN ACCORDANCE WITH THE NEC.

24. REMOVE ALL ABANDONED WIRING AND CONDUIT THAT IS WITHIN THE PROJECT AREA PRIOR TO THE END OF CONSTRUCTION.

FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.

2. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STRANDED COPPER WITH MAXIMUM 19 STRANDS.

3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.

4. SURVIVABILITY: A 2-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.

5. MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR.

6. PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM LAST DEVICE TO FACP UNLESS OTHERWISE NOTED.

7. PROVIDE DUCT DETECTOR (AND FIRE ALARM RELAY WHERE APPLICABLE) CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.

8. FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM EMERGENCY/LIFE SAFETY BRANCH WHERE AVAILABLE.

9. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES (5 MINUTES FOR NON VOICE SYSTEMS) ALARM OPERATION AT MAXIMUM CONNECTED LOAD.

10. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".

11. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE SIGNAL.

12. A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL. SUBMIT NFPA RECORD OF COMPLETION FORM ALONG WITH SMOKE DETECTOR SENSITIVITY REPORT FOR ALL DETECTORS WITHIN THE PROJECT AREA TO ENGINEER AND MAKE AVAILABLE AT FINAL INSPECTION.

13. MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110 CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.

14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.

15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.

16. STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.

17. FIRE ALARM DEVICES INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES.

18. SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, UNLESS SPECIFICALLY NOTED OTHERWISE.

19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.

20. SMOKE DETECTORS LOCATED IN ELEVATOR LOBBIES, ELEVATOR HOISTWAYS AND ELEVATOR MACHINE ROOMS SHALL INITIATE ELEVATOR RECALL, ACTIVATE ELEVATOR WARNING LIGHTS AND CAUSE SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATORS.

21. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.

22. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F, UNLESS OTHERWISE NOTED.

23. FOR PROJECTS WITH AN ELEVATOR, THE ELEVATOR CONTROL PANEL SHALL HAVE TWO SIGNALS FROM THE FIRE ALARM CONTROL PANEL/ ASSOCIATED SMOKE DETECTORS - ONE FROM THE "DESIGNATED FLOOR" SMOKE DETECTOR AND ANOTHER COMBINED SIGNAL FROM THE SMOKE DETECTORS AT THE OTHER LOBBY LANDINGS AND IN THE ELEVATOR EQUIPMENT ROOM.

24. ACTIVATION OF ANY SMOKE DETECTOR IN THE ELEVATOR LOBBY OF THE DESIGNATED PRIMARY RECALL LEVEL OR ELEVATOR MACHINE ROOM SHALL ACTIVATE ALTERNATE LEVEL RECALL.

25. PRIOR TO INSTALLATION OF ELEVATOR HOISTWAY HEAT DETECTORS, VERIFY WITH LOCAL AUTHORITY HAVING JURISDICTION IF THEY ARE REQUIRED.

26. HEAT DETECTORS SHALL BE LOCATED WITHIN 24" OF SPRINKLER HEADS LOCATED IN THE ELEVATOR MACHINE ROOM AND ALL HOISTWAY SPRINKLER HEADS LOCATED 24" ABOVE THE ELEVATOR PIT FLOOR. THESE HEAT DETECTORS SHALL HAVE BOTH A LOWER TEMPERATURE RATING AND HIGHER SENSITIVITY THAN THE SPRINKLER HEADS. HEAT DETECTORS SHALL OPEN THE MAIN DISCONNECT/POWER SUPPLY TO THE ELEVATOR CONTROLLER. CONTROL CIRCUITS TO SHUT OFF ELEVATOR POWER SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL.CONTROL MODULE SHALL BE WITHIN 3 FEET OF THE ELEVATOR CONTROLLER.

27. WHERE THERE IS A GENERATOR ON THE PROJECT, PROVIDE RELAYS AS REQUIRED FOR THE FIRE ALARM SYSTEM TO MONITOR THE FOLLOWING THREE CONDITIONS: GENERATOR RUNNING; GENERATOR FAULT; GENERATOR SWITCH NOT IN AUTO.

28. WHERE THERE IS A FIRE PUMP ON THE PROJECT, PROVIDE RELAYS AS REQUIRED FOR THE FIRE ALARM SYSTEM TO MONITOR THE FOLLOWING THREE CONDITIONS: FIRE PUMP RUNNING; FIRE PUMP LOSS OF POWER; FIRE PUMP POWER PHASE REVERSAL.

29. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS.

30. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN DIRECT AIR FLOW PATH, OR WITHIN 24" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTERLINE OF THE DOOR AND A MAXIMUM OF FIVE FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR SHALL BE THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".

31. PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E., AHU-1 SUPPLY, AHU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 6 TO 10 EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL.

32. EQUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.

33. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT; NO FIRE ALARM CONDUIT SHALL BE INSTALLED UNDER SLAB. PROVIDE MANUFACTURED RED CONDUIT UNLESS OTHERWISE NOTED.

34. MINIMIZE EXPOSURE OF DETECTORS TO DIRT AND DUST FROM CONSTRUCTION. PROVIDE PLASTIC COVERS DURING CONSTRUCTION.

35. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE MARSHALL.

36. FOR RENOVATION PROJECTS, CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACILITY FIRE ALARM SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA. ALTERNATIVELY, A DOCUMENTED FIRE WATCH OF THE ENTIRE AREA PERFORMED IN INCREMENTS NO GREATER THAN ONE HOUR MAY BE PERFORMED PROVIDED THAT IT IS DOCUMENTED IN FULL ACCORDANCE WITH NFPA 72. COORDINATE ACTIVITY IN FIELD WITH GENERAL CONTRACTOR.

37. ALL NOTIFICATION DEVICES SHALL MATCH EXISTING NOTIFICATION DEVICES IN COLOR.

38. FIRE ALARM CIRCUITS SHALL MATCH EXISTING CLASS IN EXISTING BUILDINGS.

39. NOTIFICATION DEVICES SHALL BE ADDRESSABLE ELECTRIC-VIBRATING-POLARIZED HORNS, SELECTABLE FOR HIGH OR LOW dBA OUTPUT. THEY SHALL HAVE A SOUND PRESSURE LEVEL OF 90dBA MEASURED 10 FEET FROM HORN, USING CODED SIGNAL PER NFPA 72.

ELECTRICAL GENERAL NOTES

GENERAL REQUIREMENTS

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL, CIVIL AND STRUCTURAL CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS AND WORK OF ALL OTHER DIVISIONS/TRADES.
3. THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES TO FURNISH AND INSTALL MATERIALS REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE
4. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED ON THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL. WHERE NO U.L. LABEL OR LISTING IS AVAILABLE, THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
5. PROVIDE EXPERIENCED, QUALIFIED AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER.
6. CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT
7. GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT/ENGINEER AND OWNER, UNLESS NOTED OTHERWISE IN DIVISION 1. AT NO ADDITIONAL COSTS, PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.
8. INCLUDE ALL COSTS ASSOCIATED WITH PERMITS, LICENSES, FEES, INSPECTIONS, TESTING AND TEMPORARY POWER IN THE BID PRICE, UNLESS NOTED OTHERWISE.
9. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. PROVIDE DOCUMENTATION OF SAID COMPLIANCE.
10. PROVIDE ELECTRONIC SUBMITTALS (PRODUCT DATA & SHOP DRAWINGS) FOR EACH MAJOR COMPONENT OF THE ELECTRICAL SYSTEM FOR REVIEW BY THE ARCHITECT/ENGINEER AND OWNER. MAJOR COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO, RACEWAYS, BOXES, WIRE AND CABLE, EQUIPMENT, DEVICES, LIGHT FIXTURES, SWITCHGEAR, PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, FIRE ALARM SYSTEM, ETC. ALL SUBMITTALS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS PRIOR TO SUBMITTING TO THE ARCHITECT/ENGINEER. ALLOW A MINIMUM OF TEN (10) BUSINESS DAYS FOR REVIEW BY ARCHITECT/ENGINEER, UNLESS NOTED OTHERWISE IN DIVISION 1.
11. THE ELECTRICAL PORTION OF THE CONTRACT DOCUMENTS ARE COORDINATED WITH THE DESIGN BASIS EQUIPMENT SPECIFIED BY DIVISION 26 AND OTHER DIVISIONS. WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE ARCHITECT/ENGINEER AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DESIGN SUBSTITUTION RESULTS IN THE NEED FOR THE ENGINEER TO REVISE THE CONTRACT DOCUMENTS, THE ENGINEER RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
12. MAINTAIN A CURRENT AND ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE ARCHITECT/ ENGINEER FOR REVIEW AND THEN SUBMITTED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING SINGLE LINE DIAGRAM, POWER RISER DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM, SITE PLANS AND ALL ELECTRICAL FLOORPLANS, DETAILS, PANEL SCHEDULES, ETC.
13. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
14. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
15. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
16. LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT ALL LOCAL MUNICIPALITIES AND UTILITIES AT LEAST 48 HOURS PRIOR TO DIGGING.
17. INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH ALL APPLICABLE STATUTES REGARDING MERCURY- CONTAINING DEVICES, AND WITH ALL LOCAL, STATE AND FEDERAL APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.

COORDINATION

1. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
2. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS NOTED OTHERWISE.
3. THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
4. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
5. WHERE WALLS ARE OF TILT-UP OR PRE-CAST CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN SUCH WALLSDURING THE SHOP DRAWING REVIEW PROCESS OF THE WALLS, PRIOR TO CONSTRUCTION OF THE WALLS.
6. LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGH-IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
7. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND VENDOR EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
8. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
9. CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
10. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
11. ANY TEMPORARY INTERRUPTION OF POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
12. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
13. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
14. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.

GROUNDING
1. FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
2. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS THE SOLE EQUIPMENT GROUND.
3. WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
4. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

ELECTRICAL EQUIPMENT

1. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
2. TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, BUSWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
3. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
4. THE ELECTRICAL DEDICATED EQUIPMENT SPACE EXTENDING FROM FLOOR TO 6' ABOVE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, ARCHITECTURAL APPURTENANCES AND OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NEC.
5. PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
7. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED; PANEL BOX, COVER & DOOR WHERE SURFACE MOUNTED).
8. PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, EMERGENCY SWITCHBOARDS AND PANELBOARDS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BREAKER IN BRANCH CIRCUIT PANELBOARDS AND 60A/3P IN DISTRIBUTION PANELBOARDS OR SWITCHBOARDS, UNLESS NOTED OTHERWISE, OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE.

ELECTRICAL EQUIPMENT (CONTINUED)

9. PROVIDE ARC ENERGY REDUCING MAINTENANCE SWITCH FOR ANY BREAKER RATED (OR ABLE TO BE ADJUSTED TO) 1200A OR HIGHER UNLESS OTHER ARC ENERGY REDUCTION MEANS MEETING NEC 240.87 IS INDICATED ON DRAWINGS/SPECIFICATIONS OR OTHERWISE PROVIDED.

ELECTRICAL DEVICES OUTLET BOXES, JUNCTION BOXES

1. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS NOTED OTHERWISE.
2. RECEPTACLES, VOICE/DATA OUTLETS AND WALL FURNITURE FEEDS SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS NOTED OTHERWISE. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.
3. IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILINGS, OR FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MOUNTED, UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS THE ARCHITECT/ENGINEER GRANTS WRITTEN PERMISSION.
4. ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHETHER INDICATED ON THE CONTRACT DOCUMENTS OR NOT.
5. ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS NOTED OTHERWISE.
6. ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
7. WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INSTALL SO THAT THEY ARE SEPARATED BY AT LEAST 12".
8. RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS AND VENDING MACHINES SHALL BE LOCATED DIRECTLY BEHIND SAID APPLIANCE, CONCEALED FROM DIRECT VIEW. RECEPTACLES AND/OR HARD WIRED EQUIPMENT CONNECTIONS SHALL BE PROTECTED BY A READILY ACCESSIBLE GFCI FEED-THRU DEVICE LOCATED IMMEDIATELY ADJACENT TO THE APPLIANCE OR BE PROTECTED BY GFCI BREAKER IN THE PANELBOARD. ALL GFCI DEVICES MUST BE READILY ACCESSIBLE PER THE NEC.
9. ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO MOISTURE (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. ALL EXTERIOR RECEPTACLES SHALL WE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS NOTED OTHERWISE.
10. ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS, MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATOR EQUIPMENT ROOMS, FOR ELEVATOR SUMP PUMP(S) OR INSTALLED WITHIN 6' OF THE INSIDE FACE OF A SINK, SHALL BE GFCI TYPE OR GFCI PROTECTED.
11. NEW RECEPTACLES SHALL BE TAMPER RESISTANT AND HOSPITAL GRADE. MATCH COVER PLATE TO BASE BUILDING.
12. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
    A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
    B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
    C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
    D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
    E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
    F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
    G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
    H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
    I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.

RACEWAYS

1. FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS THE ARCHITECT/ENGINEER GRANTS WRITTEN PERMISSION.
2. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFICALLY NOTED OTHERWISE.
3. THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS THE ARCHITECT/ENGINEER OR OWNER GRANTS WRITTEN PERMISSION.
4. CONNECTIONS TO TRANSFORMERS, AHU'S, AND PUMPS SHALL BE WITH LIGUIDTIGHT, FLEXIBLE METAL CONDUIT.
5. NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS NOTED OTHERWISE.
6. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT CONDUIT ENDS.
7. ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E.,EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALLS AND MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED, NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO ROUTING.
8. SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED AND SMOKE-RATED WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL PENETRATED.
9. PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE REQUIRED. COORDINATE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS ARE TO BE SEALED WATERTIGHT.
10. ALL RACEWAYS THAT TURN UP THROUGH THE SLAB OR INTO ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18" LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED.
11. PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.
12. PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR OTHER WET ENVIRONMENTS AND ADDITIONAL AREAS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS SUCH AS WALK-IN COOLERS OR FREEZERS, BOILER ROOMS, ETC.
13. PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION.
14. ALL HOMERUNS SHALL BE IN 3/4" RACEWAY MINIMUM. 1/2" RACEWAY IS ACCEPTABLE FOR A SINGLE CIRCUIT FROM THE HOMERUN TO REMAINING DEVICES.
15. CONDUIT SHALL USE SET SCREW TYPE FITTINGS OR COMPRESSION FITTINGS.
16. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

CONDUCTORS

1. ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO WIRE SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG.
2. BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS AS FOLLOWS:
    A. 120V, 20A CIRCUITS SHALL BE:
        i. #12 FROM 0-70 FT
        ii. #10 FROM 71-115FT
        iii. #8 FROM 116-180FT
    B. 277V, 20A CIRCUITS SHALL BE:
        i. #12 FROM 0-140FT
        ii. #10 FROM 141-220FT
        iii. #8 FROM 221-350FT
    ANYTHING LONGER THAN THE ABOVE SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS FOR APPROVAL.
3. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL.
4. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 60 DEG F TEMPERATURE RATING FROM 0-100A AND 75 DEG. F TEMPERATURE RATING LISTED IN NEC FOR 100A AND ABOVE.
5. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN; SOLID FOR #10 AWG AND SMALLER; STRANDED FOR #8 AWG AND LARGER.
6. CONDUCTORS USED IN WET LOCATIONS, INCLUDING BUT NOT LIMITED TO UNDERGROUND CONDUITS/ DUCTBANKS AND EXTERIOR CONDUITS SHALL COMPLY WITH NEC 310.10 AND BE LISTED FOR USE IN WET LOCATIONS.
7. ALL POWER CIRCUITS HAVE BEEN DESIGNED TO MEET 2% OR LESS VOLTAGE DROP FOR FEEDERS, AND 3% OR LESS VOLTAGE DROP FOR BRANCH CIRCUITS.

IDENTIFICATION
1. PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTING PANELBOARDS AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS- BUILT CONDITIONS FOR ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FED FROM. ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE ROOM NUMBER(S) FOR EACH LOAD (I.E., RECEPTACLES-RMS 501,503). ROOM NUMBERS SHALL BE BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATE EXACT ROOM NUMBERS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO COMPLETION OF PANELDIRECTORIES.
2. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR, DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC., AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.
3. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD.
4. ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.
5. PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
6. PROVIDE NEATLY, HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION BOXES, PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) CONTAINED WITHIN.

IDENTIFICATION (CONTINUED)

7. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
8. PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROL CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE ENERGIZED. LOCK-OUT TAG-OUT REQUIRED".
9. PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENTS, AND OWNER'S PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.
10. PROVIDE ENGRAVED PHENOLIC LABEL ON ALL NEW SERVICE EQUIPMENT TO INDICATE THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED. PROVIDE LABEL ON ALL EXISTING SERVICE EQUIPMENT WHEN MODIFICATIONS OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE.

LIGHTING

1. LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.
2. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.
3. VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING.
4. LIGHT FIXTURES RECESSED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH APPROVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
5. MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING INSTALLED.
6. ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED.
7. ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L), EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING CONTROLS.
8. PROVIDE UL WET LABEL OR IP67 RATED LIGHT FIXTURES FOR ALL FIXTURES LOCATED OUTSIDE OR IN PARKING GARAGES, IN SHOWERS, OR OPEN STRUCTURES.
9. EXTERIOR LIGHTING BALLASTS/DRIVERS SHALL HAVE A MINMUM STARTING TEMPERATURE OF -40 DEGREE C, AND A NORMAL AMBIENT OPERATING TEMPERATURE OF 40 DEGREE C.
10. PROVIDE FUSING FOR ALL EXTERIOR LIGHT FIXTURES, OR FIXTURES IN PARKING GARAGES OR OPEN STRUCTURES.
11. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNS REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
12. COORDINATE EXACT FOUNDATION AND/OR COMPACTING REQUIREMENTS FOR ALL POLE MOUNTED LIGHT FIXTURES WITH MANUFACTURER'S AND/OR INSTALLER'S STRUCTURAL ENGINEER. POLE BASES SHALL MEET OR EXCEED ALL WIND LOAD RATINGS, GUST FACTORS, IMPORTANCE FACTORS, ETC. REQUIRED BY NATIONAL AND/OR LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE STRUCTURAL DRAWINGS FOR ALL POLE BASES, POLE, ASSEMBLY AND OVERTURN CALCULATIONS REQUIRED IN THIS PROJECT, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.
13. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS AND ADDITIONAL INFORMATION PERTINENT TO THE LIGHT FIXTURE OR INSTALLATION THEREOF.
14. COORDINATE LIGHT FIXTURE TRIM TYPE AND FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
15. EACH LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL.

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

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GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025

GEORGIA REGISTERED NO. PE044777 PROFESSIONAL ENGINEER TAWAN C. MARTIN
10/24/25

Tawan Martin, P.E.
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SHEET TITLE
ELECTRICAL GENERAL NOTES

SHEET NUMBER
E002

10/24/2025 12:40:56 PM

TECHNOLOGY SPECIFICATIONS - DIVISION 27 / 28

GENERAL:

1. WHERE THE REQUIREMENTS OF ANOTHER DIVISION, SECTION, OR PART OF THE SPECIFICATIONS EXCEED THE REQUIREMENTS OF THIS DIVISION, THOSE REQUIREMENTS SHALL GOVERN.

2. ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE AND IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS INCLUDING ANY ADDITIONAL REGULATIONS OF GOVERNING STATE, COUNTY, LOCAL AND OTHER APPLICABLE CODES:

- INTERNATIONAL BUILDING CODE (2018)
- INTERNATIONAL FIRE CODE (2018)
- NFPA 70, NATIONAL ELECTRICAL CODE (2023)
- NFPA 75, STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT (2017)
- NFPA 76, STANDARD FOR THE FIRE PROTECTION OF TELECOMMUNICATIONS FACILITIES (2016)
- NFPA 99, HEALTH CARE FACILITIES CODE (2018)
- NFPA 101, LIFE SAFETY CODE (2018)
- AMERICAN WITH DISABILITIES ACT STANDARD (2010)
- AMENDMENTS TO THE ABOVE CODES PER THE RULES AND REGULATIONS OF THE STATE OF GEORGIA, CHAPTER 120-3-3, RULES AND REGULATIONS FOR STATE MINIMUM FIRE SAFETY STANDARDS.
- THE LATEST EDITIONS OF ANSI/TIA-568, 569, 606, AND 607
- THE LATEST EDITION OF THE BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM)

3. THE WORK REQUIRED UNDER THIS DIVISION SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, TEMPORARY PROTECTION, TEMPORARY LIGHTING, SUPERVISION AND INCIDENTAL ITEMS ESSENTIAL FOR PROPER INSTALLATION AND OPERATION, EVEN THOUGH NOT SPECIFICALLY MENTIONED OR INDICATED BUT WHICH ARE USUALLY PROVIDED OR ARE ESSENTIAL FOR PROPER INSTALLATION AND OPERATION OF ALL TECHNOLOGY SYSTEMS. THE TECHNOLOGY SYSTEMS REQUIRED UNDER THIS DIVISION CONSISTS BASICALLY OF, BUT IS NOT LIMITED TO THE FOLLOWING: VOICE/DATA/AUDIO-VISUAL CABLING, EXTENSION OF THE PAGING SYSTEM AND EXTENSION OF THE CATV SYSTEM.

4. CONTRACTOR SHALL GIVE ALL NOTICES, FILE ALL PLANS, PAY ALL FEES AND OBTAIN ALL PERMITS, LICENSES, INSPECTIONS, RE-INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION AS REQUIRED. INCLUDE ALL FEES IN THE BID.

5. SPECIAL ATTENTION IS CALLED TO THE FACT THAT WORK INVOLVED MAY BE IN CONNECTION WITH EXISTING BUILDINGS WHICH REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. WORK MUST BE DONE IN ACCORDANCE WITH THE PRIORITY SCHEDULE. SCHEDULE WORK FOR A MINIMUM OUTAGE TO OWNER. CONTRACTOR SHALL CLOSELY COORDINATE WITH THE OWNER PRIOR TO COMMENCING WORK AND DURING CONSTRUCTION FOR POWER AND/OR SYSTEM OUTAGES AS WELL AS GENERAL REQUIREMENTS. RECEIVE WRITTEN ACCEPTANCE FROM THE OWNER NO LATER THAN 7 DAYS IN ADVANCE OF ALL POWER OUTAGES. CONTRACTOR SHALL WORK DURING OFF HOURS (EVENINGS & WEEKENDS) WHEN DEEMED NECESSARY BY THE OWNER. PROTECT EXISTING BUILDINGS AND EQUIPMENT DURING CONSTRUCTION.

6. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. COORDINATE FINAL EQUIPMENT LOCATIONS WITH GOVERNING ARCHITECTURAL AND STRUCTURAL DRAWINGS. LAY OUT BEFORE INSTALLATION SO THAT ALL TRADES MAY INSTALL EQUIPMENT IN SPACES AVAILABLE. COORDINATE WITH OTHER TRADES AS REQUIRED.

7. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER.

8. ANY ITEM OF EQUIPMENT OR MATERIAL NOT SPECIFICALLY ADDRESSED ON THE CONTRACT DRAWINGS OR IN THIS DOCUMENT AND REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION SHALL BE PROVIDED IN A LEVEL OF QUALITY CONSISTENT WITH OTHER SPECIFIED ITEMS.

QUALIFICATIONS:

1. THE CONTRACTOR DIRECTLY RESPONSIBLE FOR THIS WORK SHALL BE A STRUCTURED CABLING SYSTEM (SCS) CONTRACTOR WHO HAS BEEN REGULARLY ENGAGED IN THE PROVIDING AND INSTALLATION OF COMMERCIAL AND INDUSTRIAL TELECOMMUNICATIONS WIRING SYSTEMS OF THIS TYPE AND SIZE FOR AT LEAST THE IMMEDIATE PAST FIVE YEARS. ANY SUBCONTRACTOR WHO WILL ASSIST THE SCS CONTRACTOR IN PERFORMANCE OF THIS WORK, SHALL HAVE THE SAME TRAINING AND CERTIFICATION AS THE SCS CONTRACTOR AND BE APPROVED BY THE OWNER.

2. THE SCS CONTRACTOR'S PROJECT MANAGER SHALL POSSESS A CURRENT BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) CERTIFICATE. ALL SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BEAR THE RCDD'S STAMP.

3. THE INSTALLATION TEAM LEADER ASSIGNED FOR THE PROJECT SHALL BE A BICSI REGISTERED TECHNICIAN AND SHALL BE PRESENT AT ALL TIMES WORK IS BEING PERFORMED AT THE PROJECT SITE. ALL CRAFTSMEN ON THE PROJECT SHALL HAVE RECEIVED CERTIFIABLE TRAINING AND RELATED HANDS-ON EXPERIENCE. ACCEPTABLE CERTIFIABLE TRAINING SHALL BE AS BY BICSI, NJATC OR ENGINEER APPROVED EQUAL.

4. THE SCS CONTRACTOR SELECTED FOR THE PROJECT MUST BE CERTIFIED BY THE MANUFACTURERS OF THE PRODUCTS, ADHERE TO THE ENGINEERING, INSTALLATION AND TESTING PROCEDURES AND UTILIZE THE AUTHORIZED MANUFACTURERS COMPONENTS AND DISTRIBUTION CHANNELS IN PROVISIONING THE PROJECT.

5. THE INSTALLATION OF ANY COMMUNICATIONS RACEWAYS INVOLVING CONDUITS AND/OR PENETRATIONS THROUGH FIRE-RATED OR SMOKE-RATED WALLS MUST BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.

EXISTING CONDITIONS:

1. ALL EXISTING TECHNOLOGY WHICH IS DESIGNATED FOR REWORKING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING WITH ALL PARTS OF THIS SPECIFICATION.

2. CONTRACTOR SHALL VERIFY IF THERE IS ANY PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.

3. ABANDONED COMMUNICATIONS OR DISTRIBUTION CABLES AS DEFINED BY NEC 640.2, 770.2, 800.2, 820.2 FOUND WITHIN THE PROJECT AREA OR CAUSED TO BE ABANDONED DUE TO THIS WORK SHALL BE REMOVED COMPLETELY BACK TO THE SOURCE. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY AND QUANTIFY THIS SCOPE. FIELD VERIFICATION SHALL INCLUDE CABLING ABOVE LAY-IN CEILINGS AND/OR MEZZANINES.

4. CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE BIDDING. CONTRACTOR SHALL ADVISE ENGINEER OF DISCREPANCIES OR QUESTIONS NOTED. WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE ARCHITECT FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.

5. ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE STOPPED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

EXECUTION:

1. THE SYSTEM SHALL UTILIZE A NETWORK OF SHIELDED (STP) AND/OR UNSHIELDED TWISTED PAIR CABLES (UTP) AND FIBER OPTIC CABLES (FO) FOR HORIZONTAL CABLING, BACKBONE CABLING AND PATCH CORDS. CABLES AND TERMINATIONS SHALL BE PROVIDED AND LOCATED AS SHOWN ON THE DRAWINGS AND IN THE QUANTITIES REQUIRED FOR A COMPLETE AND WORKING SYSTEM. FO CABLES SHALL TERMINATE ON RACK MOUNTED FIBER DISTRIBUTION ENCLOSURES AS INDICATED ON THE DRAWINGS. UTP CABLES SHALL TERMINATE ON RACK MOUNTED MODULAR PATCH PANELS AND WORK AREA OUTLETS LOCATED AS SHOWN ON THE DRAWINGS. PROVIDE REAR CABLE SUPPORT BARS FOR ALL PATCH PANELS.

2. VOICE/DATA CABLES SHALL BE EXTENDED BETWEEN THE OUTLET LOCATION AND THE ASSOCIATED TELECOMMUNICATIONS ROOM. THE CABLE SHALL BE UNSHIELDED TWISTED PAIR CONSISTING OF 4-PAIR, 23 AWG SOLID COPPER CONDUCTORS. CERTIFIED TO ANSI/TIA-568-D.2 CATEGORY STANDARDS AND VERIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR ANSI/TIA ELECTRICAL PERFORMANCE AND COMPLY WITH FCC PART 68.

3. UTP CABLES SHALL BE TERMINATED ON 8-POSITION MODULAR JACKS PROVIDED AT EACH OUTLET. ALL UTP TERMINATIONS SHALL BE TIA 568B. 8-POSITION MODULAR JACKS SHALL MEET OR EXCEED THE CURRENT ANSI/TIA 568 STANDARDS FOR CATEGORY-6 OR EA. U.N.O., HAND CRIMPED RJ-45 PLUGS WILL NOT BE ACCEPTED. WHERE RJ-45 PLUGS ARE REQUIRED, CONTRACTOR SHALL USE PRE-FABRICATED FIELD-MATEABLE CORD ASSEMBLIES.

4. FIBER OPTIC CABLE TERMINATIONS SHALL BE FUSION SPLICED WITH FACTORY ASSEMBLED FIBER OPTIC SINGLE SPICE-ON CONNECTORS OR PIG-TAIL ASSEMBLIES WITH FACTORY POLISHED CONNECTOR. MECHANICAL FIBER SPLICES ARE NOT ACCEPTABLE. SPLICE-ON CONNECTORS OR PIG TAILS SHALL BE FROM SAME MANUFACTURER AS THOSE OF THE FIBER OPTIC CABLE MANUFACTURER.

5. THE SCS CONTRACTOR SHALL FURNISH, INSTALL AND TEST AS REQUIRED, ALL RACEWAY, BACKBOARDS, CABLE, EQUIPMENT RACKS, PATCH PANELS, CABLE SUPPORTS, CONNECTORS, FACEPLATES, CROSS-CONNECT BLOCKS, POWER STRIPS, CABLE TRAYS, RACK EQUIPMENTS, ACCESSORIES, ETC, AS INDICATED AND REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING INSTALLATION.

6. PROVIDE AND INSTALL ALL TECHNOLOGY SYSTEMS AND ANY NECESSARY ACCESSORIES AS PER NEC AND LOCAL CODES WHETHER SPECIFIED HEREIN OR SHOWN ON DRAWINGS OR NOT. THE CONTENT OF THESE SPECIFICATIONS (DIVISION 27/28) AND CONTRACT DOCUMENTS IN GENERAL ONLY REFERS TO WORK REQUIRED ABOVE AND BEYOND THE REQUIREMENTS OF THE NEC AND LOCAL CODES.

7. ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS, AND SHALL BE U.L. LISTED, BEAR THE U.L. LABEL OR BE LABELED OR LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY. WHERE NO LABELING OR LISTING SERVICE IS AVAILABLE FOR CERTAIN TYPES OF EQUIPMENT, TEST DATA SHALL BE SUBMITTED TO PROVE TO THE ENGINEER THAT EQUIPMENT MEETS OR EXCEEDS AVAILABLE STANDARDS.

8. PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE WORK CONNECTS TO OR IS AFFECTED BY WORK OF OTHERS, AND COMPLY WITH ALL REQUIREMENTS AFFECTING THIS DIVISION.

9. WHERE INDICATED ON DRAWINGS, TELECOMMUNICATIONS BACKBOARDS SHALL BE A/C GRADE 3/4" PLYWOOD. SHEETS TO BE 4' X 8' AND MOUNTED VERTICALLY WITH BEST FACE OUT, 0" AFF TO BOTTOM OF BACKBOARD. ALL IMPERFECTIONS AND VOIDS SHALL BE FILLED, SEALED AND SANDED PRIOR TO BEING PRIMED AND PAINTED WITH 2 COATS OF UL723 LISTED FIRE-RETARDANT PAINT. PAINT COLOR SHALL BE WHITE, U.N.O. TOUCH UP PAINT AT END OF PROJECT.

10. FURNISH, INSTALL, TEST AND CERTIFY COMPLETE WITH ALL ACCESSORIES AN ANSI/TIA-568-D.2 CATEGORY STRUCTURED CABLING SYSTEM (SCS).

11. CABLE AND JACK MANUFACTURERS SHALL BE AS SPECIFIED ON THE DESIGN DRAWINGS. ANY ITEMS NOT SPECIFIED SHALL MATCH TO THOSE OF THE EXISTING BUILDING.

12. STRUCTURED CABLING SHALL BE PROVIDED BY OWNER APPROVED VENDORS ONLY.

13. ALL CABLES SHALL BE OF A SINGLE CONTINUOUS RUN, WITH NO SPLICES, IN-LINE CONNECTORS, ETC.

14. ALL CABLE RUNS, CONDUITS, TRAYS AND OTHER RACEWAYS SHALL BE ROUTED PARALLEL TO OR PERPENDICULAR TO THE BUILDING STRUCTURE; NO DIAGONAL RUNS WILL BE PERMITTED.

15. ALL EXISTING/NEW CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS.

16. CABLES THAT REQUIRE SERVICE LOOPS OR ADDITIONAL LENGTH SHOULD BE COILED AT 200% OF THEIR RECOMMENDED MINIMUM BEND RADIUS OR IN A 16" DIAMETER COIL (WHICHEVER IS LARGER). THE COIL SHALL THEN BE VELCRO TIED AND ATTACHED TO A NEARBY SUPPORT. THE COIL SHALL BE LOCATED, IF POSSIBLE, ABOVE THE WORKSTATION, INDIVIDUALLY BUNDLED AND TAGGED WITH THE CABLE NUMBER.

17. ACCESS CONTROL EQUIPMENT SHALL MATCH EXISTING SYSTEM INSTALLATION.

18. SCS CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PROGRAMMING FOR CONNECTION TO EXISTING SYSTEMS.

19. SUITABLY PROTECT ALL EQUIPMENT FURNISHED UNDER THIS DIVISION DURING CONSTRUCTION. RESTORE ALL DAMAGED SURFACES AND ITEMS TO "LIKE NEW" CONDITION BEFORE A REQUEST FOR SUBSTANTIAL COMPLETION INSPECTION.

20. SCS CONTRACTOR SHALL TAKE CARE DURING INSTALLATION TO ASSURE THAT COMMUNICATIONS CABLES ARE INSTALLED FREE FROM ALL KINKS, SHARP BENDS, PINCHES, CRUSHES, GOUGES, CUTS OR ANY OTHER PHYSICAL DAMAGE WHICH MAY CAUSE ANY PHYSICAL OR ELECTRICAL CHARACTERISTIC ALTERATIONS TO THE COMMUNICATION, DATA OR OPTICAL FIBER CABLES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PHYSICAL AND ELECTRICAL INTEGRITY OF THE CABLE BEING INSTALLED AND SHALL REPLACE ANY AND ALL CABLES FOUND DEFICIENT FOR ANY REASON.

21. SCS CONTRACTOR SHALL TAKE CARE TO ASSURE THAT DURING THE INSTALLATION AND UPON COMPLETION, ALL CABLES HAVE BEEN INSTALLED FREE FROM PAINT OR PAINT OVERSPRAY. PAINT OR PAINT OVERSPRAY ON THE CABLE SHEATH VOIDS THE MANUFACTURER'S WARRANTY. CLEANING OR REMOVAL OF PAINT FROM THE CABLE SHEATH BY MEANS OF WATER, DETERGENTS, SOLVENTS OR OTHER METHODS ALSO VOIDS THE MANUFACTURER'S WARRANTY. ANY CABLES EXHIBITING SUCH PAINT DAMAGE OR AN ATTEMPT BY THE CONTRACTOR TO CORRECT, COVER-UP, HIDE OR OTHERWISE CONCEAL SUCH DAMAGE WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

22. ALL CABLES AND TERMINATIONS SHALL BE IDENTIFIED AT ALL LOCATIONS ACCORDING TO ANSI/TIA 606-C, WITH LABELING SEQUENCE AND NUMBERING AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER. ALL IDENTIFIERS SHALL BE PRINTED WITH PERMANENT MACHINE GENERATED LABELS WITH A MINIMUM TEXT SIZE OF 3/16". ALL LABELS SHALL MEET UL 969 STANDARDS.

23. LABELING SCHEMES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO LABEL FABRICATION. ONLY HIGH-QUALITY, PROFESSIONAL GRADE, THERMAL TRANSFER LABELS AND PRINTERS SHALL BE USED. PANDUIT MP300 OR ENGINEER APPROVED EQUAL. CONSUMER GRADE, OFFICE-TYPE LABELS AND PRINTERS WILL NOT BE ACCEPTED AND IF USED, THEY SHALL BE REPLACED WITH PROFESSIONAL GRADE LABELS AT CONTRACTOR'S EXPENSE.

24. ALL CABLES SHALL BE TERMINATED IN AN ALPHA-NUMERIC SEQUENCE AT ALL TERMINATION LOCATIONS.

25. CONDUITS SHALL BE SIZED AS PER THE LATEST EDITION TIA-569 OR AS NOTED ON THE DRAWINGS, WHICHEVER IS MORE STRINGENT, UNLESS NOTED OTHERWISE. MINIMUM SIZE FOR COMMUNICATIONS CONDUITS IS 1 INCH. PROVIDE A 1/8" NYLON OR POLYPROPYLENE PULL STRING IN ALL CONDUITS.

26. CABLES ROUTED IN OPEN CEILING AREAS SHALL BE INSTALLED IN CONDUIT.

27. INSTALLATION OF ALL CABLES SHALL COMPLY WITH NEC CHAPTERS 300 AND 800. ALL COMMUNICATIONS CABLING ROUTED ABOVE SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED BY CABLE TRAY OR J-HOOKS ONLY. PRIOR TO INSTALLATION, ALL SUPPORTING HARDWARE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. IF USED, J-HOOKS SHALL BE SPACED NO GREATER THAN 60" APART. BUNDLING OR SUPPORT OF CABLES BY MEANS OF ELECTRICAL TAPE, ZIP TIES, OR BRIDLE RINGS WILL NOT BE ACCEPTED. COMMUNICATIONS CABLING SUPPORTED BY OR RESTING UPON CEILING TILES, CEILING GRID, CEILING GRID SUPPORT WIRES, CONDUITS, ELECTRICAL EQUIPMENT, HVAC EQUIPMENT, PLUMBING EQUIPMENT, FIRE PROTECTION EQUIPMENT OR ANY OTHER ABOVE-CEILING EQUIPMENT IS PROHIBITED. COMMUNICATIONS CABLING RUNNING DIRECTLY THROUGH CEILING JOISTS WITHOUT PROPER CABLE SUPPORTS (J-HOOKS) WILL NOT BE ACCEPTED.

28. DURING THE COURSE OF THE PROJECT, IF ANY EXISTING CABLING IS DISCOVERED TO BE SUPPORTED BY OR RESTING UPON CEILING TILES, CEILING GRID, CEILING GRID SUPPORT WIRES, ELECTRICAL EQUIPMENT, HVAC EQUIPMENT, PLUMBING EQUIPMENT, FIRE PROTECTION EQUIPMENT OR ANY OTHER ABOVE-CEILING EQUIPMENT, CONTRACTOR SHALL REMEDY BY SUPPORTING SAID CABLE WITH J-HOOKS WHEREVER POSSIBLE.

29. PERFORM VERIFICATION WORK AS REQUIRED TO SHOW THAT THE SYSTEM IS OPERATING CORRECTLY IN ACCORDANCE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S LITERATURE. ALL VERIFICATION SHALL BE DONE AFTER 3-DAY FULL OPERATIONAL PERIOD. ALL WORK ON THE SYSTEM SHALL BE COMPLETED, AND ALL FORMS AND OTHER INFORMATION SHALL BE SUBMITTED FOR APPROVAL ONE WEEK BEFORE THE REQUEST FOR FINAL INSPECTION OF THE BUILDING.

30. UNLESS NOTED OTHERWISE, ALL CONDUIT FOR TECHNOLOGY SYSTEMS ABOVE GRADE SHALL BE EMT AND ALL CONDUIT FOR BELOW GRADE SHALL BE PVC.

31. ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS-STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP OR OUT TO OTHER LOCATIONS DIFFERENT FROM TELECOM ROOMS AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, OUTDOOR RATED CABLES SHALL BE USED.

32. SURFACE MOUNTED BOXES TO BE USED IN AIR HANDLING SPACES, SUCH AS ABOVE CEILING AND UNDER RAISED FLOOR AREAS, SHALL BE PLENUM RATED AND UL LISTED FOR THE USE IN THOSE ENVIRONMENTS. SURFACE MOUNTED BOXES SHALL NOT RELY SOLELY ON DOUBLE SIDED TAPE FOR MOUNTING. ALL SURFACE MOUNTED BOXES SHALL BE SECURED TO MATING SURFACES WITH SCREWS.

TESTING:

1. ALL HORIZONTAL CATEGORY-6 OR 6A CABLES SHALL BE TESTED FOR THEIR RESPECTIVE CATEGORY PERFORMANCE REQUIREMENTS FOR PERMANENT LINK AS SPECIFIED IN ANSI/TIA-568-D.2. FIELD TESTER EQUIPMENT SHALL CONFORM TO ANSI/TIA-1152 STANDARDS. ANY TEST RESULT OF "FAIL", "FAIL*", "PASS*" OR "WARNING" SHALL RESULT IN AN OVERALL FAIL FOR THE TEST. IN ORDER TO ACHIEVE AN OVERALL PASS CONDITION, THE RESULT FOR EACH INDIVIDUAL TEST PARAMETER MUST BE "PASS". CONTRACTOR SHALL PROVIDE TEST RESULTS IN .PDF FORMAT FOR REVIEW BY OWNER/ENGINEER.

2. ALL CATV DISTRIBUTION ACCEPTANCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE NCTA (NATIONAL CABLE TELEVISION ASSOCIATION) RECOMMENDED PRACTICES FOR CATV MEASUREMENT. THE CONTRACTOR PERFORMING THE WORK OF THIS SECTION SHALL PERFORM THE FOLLOWING TESTS ON THE COMPLETED DISTRIBUTION SYSTEM:

- ALL COAXIAL CABLE SHALL BE SWEEP TESTED AFTER INSTALLATION FOR OPENS, SHORTS, AND KINKS WITH A TIME DOMAIN REFLECTOMETER (TDR). DAMAGED SECTIONS SHALL BE REPLACED BY PULLING A NEW CABLE.
- VISUAL CARRIER/NOISE (C/N) SHALL BE MEASURED OVER THE SYSTEM FROM THE INPUT OF THE DISTRIBUTION AMP TO THE OUTPUT OF THE MOST DISTANT CATV JACK IN THE BUILDING. MINIMUM C/N SPECIFICATIONS ARE NO LESS THAN 43 DB.
- SIGNAL AT EACH AND EVERY CATV JACK INSTALLED AS PART OF THIS SYSTEM SHALL BE 4-9 DBMV WITH A MAX 4 DB TILT FROM 50-860 MHZ.
- THE SIGNAL AT EACH CATV JACK SHALL BE FREE OF ADDITIONAL NOISE AND DISTORTION AS JUDGED BY OWNER.

3. ALL FIBER OPTIC CABLING SHALL BE TESTED IN ACCORDANCE WITH ANSI/TIA-568-D.3 FOR TIER I (ATTENUATION) AND TIER II (OTDR) TESTING TO INCLUDE THE FOLLOWING REQUIREMENTS:

- THE SINGLE JUMPER REFERENCE METHOD SHALL BE USED FOR TESTING ALL MULTIMODE AND SINGLEMODE LINKS.
- WAVELENGTHS FOR TESTING SHALL BE 850 NM AND 1300NM FOR MULTIMODE AND 1310NM AND 1550 NM FOR SINGLEMODE.
- OTDR TESTING SHALL UTILIZE BI-DIRECTIONAL AVERAGING. REFLECTANCE LIMITS SHALL BE -35 DB FOR MULTIMODE, -40 DB FOR SINGLEMODE AND -55 DB FOR APC SINGLEMODE.
- LAUNCH CORDS SHALL BE REFERENCE GRADE AS PER ANSI/TIA-568-D.3 AND BE CERTIFIED PRIOR TO TESTING AND RE-CERTIFIED EVERY 288 TESTS. ALL LAUNCH CORDS AND ADAPTERS SHALL BE CLEAN AND FREE OF DEFECTS PRIOR TO TESTING.
- ANY FIBER OPTIC LINK TEST RESULTING IN A NEGATIVE LOSS SHALL BE CLASSIFIED AS A "FAIL" AND REQUIRE RE-CERTIFYING OF THE LAUNCH CORDS PRIOR TO RE-TESTING OF THE LINK.

WARRANTY:

1. A MINIMUM TWENTY (20) YEAR MANUFACTURER'S WARRANTY SHALL BE PROVIDED FOR THE STRUCTURED CABLING SYSTEM (FIBER OPTICS AND COPPER) FOR END-TO-END CHANNEL SUPPORT AND PERFORMANCE OF CURRENT AND FUTURE NETWORK APPLICATIONS, CABLE DEFECTS, CONNECTING HARDWARE DEFECTS AND THE LABOR COST FOR THE REPAIR OR REPLACEMENT THEREOF.

2. THE SCS CONTRACTOR SHALL PROVIDE A MINIMUM ONE (1) YEAR WARRANTY ON LABOR.

SUBMITTALS:

1. PROVIDE SHOP DRAWING SUBMITTALS TO THE ARCHITECT/ENGINEER FOR APPROVAL FOR ALL MATERIAL PROVIDED UNDER THIS DIVISION. EQUIPMENT SHALL NOT BE ORDERED PRIOR TO APPROVAL FROM THE ARCHITECT/ENGINEER.

2. AT THE COMPLETION OF WORK, CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD "AS-BUILT" DRAWINGS IN ACCORDANCE WITH DIVISION 1, SHOWING THE ACTUAL LOCATION OF ALL EQUIPMENT INSTALLED INCLUDING UNDERGROUND CONDUITS AND JUNCTION BOXES.

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THINK. LISTEN. CREATE.

GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025

GEORGIA REGISTERED NO. PE044777 PROFESSIONAL ENGINEER TAWAN C. MARTIN
10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

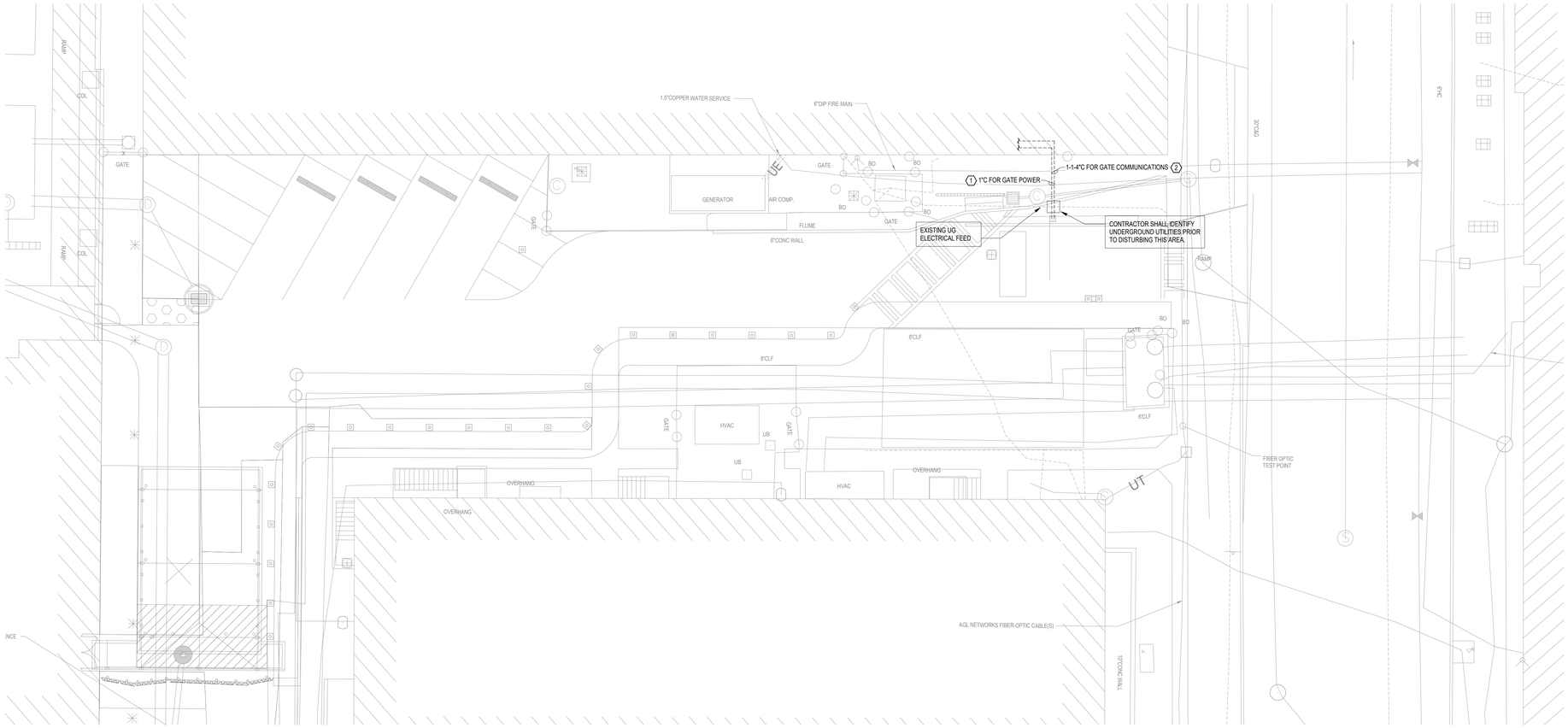
SHEET TITLE

TECHNOLOGY SPECIFICATIONS

SHEET NUMBER

E003

10/24/2025 12:29:29 PM



1 SITE PLAN - ELECTRICAL
1" = 10'-0"

SITE PLAN GENERAL NOTES:

CONDUIT RUNS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY TO CONVEY INTENTION OF COORDINATION, ROUTING AND STUBBING. CONTRACTOR SHALL COORDINATE WITH CIVIL AND LANDSCAPE PLANS AS WELL AS ADAPTING TO ACTUAL FIELD CONDITIONS.

U.N.O., ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC AND BURIED A MINIMUM OF 36" BELOW GRADE TO TOP OF CONDUIT. SLOPE AWAY FROM BUILDING. ALL BENDS SHALL BE LONG SWEEPING BENDS WITH RADIUS NOT LESS THAN 10 TIMES ID OF CONDUIT. CONDUIT VERTICAL RISERS EXPOSED ABOVE GRADE AND 90 DEGREE BENDS SHALL BE RGS OR FIBERGLASS. PROVIDE DETECTABLE WARNING TAPE FOR ALL UNDERGROUND CONDUIT RUNS.

WITH EXCEPTION OF CONDUITS INSTALLED UNDER FLOOR SLAB, ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 300.5 EXCEPT THE MINIMUM COVER FOR ANY CONDUIT OR TOP OF DUCT BANK SHALL BE 36".

PROVIDE PULL STRINGS FOR ALL COMMUNICATIONS CONDUITS, PULL STRINGS SHALL HAVE A MINIMUM PULL STRENGTH OF 200LB.

MINIMUM SEPARATION OF UNDERGROUND COMMUNICATIONS CONDUITS FROM POWER AND OTHER SYSTEMS SHALL BE 3" WHEN SEPARATED BY CONCRETE AND 12" WHEN SEPARATED BY WELL-TAMPED EARTH.

CONTRACTOR SHALL REPAIR ALL SAW CUTTING, PATCHING, DISTURBED GRASS, BRICK PAVER, ASPHALT AND CONCRETE TO MATCH OR EXCEED EXISTING CONDITIONS.

ALL EXCAVATED AREAS SHALL BE BACK-FILLED AND COMPACTED IN 8" LIFTS MAX. 100 PERCENT MINIMUM COMPACTION UNDER PAVEMENT, 95 PERCENT MAXIMUM COMPACTION FOR GRADED AND SEEDED AREAS.

SITE PLAN KEYNOTES:

1. RUN POWER CONDUITS WITHIN PARKING STRUCTURE TO ELECTRICAL ROOM AS REQUIRED.
2. RUN COMMUNICATIONS CONDUITS WITHIN PARKING STRUCTURE TO EXISTING ACCESS CONTROL PANEL LOCATION AS REQUIRED. PROVIDE ACCESS CONTROL TO PARKING GATE. COORDINATE WITH GRADY HEALTH SECURITY DEPARTMENT AND GENERAL CONTRACTOR AS REQUIRED.

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THINK. LISTEN. CREATE.

GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE044777 TAWAN C. MARTIN 10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE

ELECTRICAL - SITE PLAN

SHEET NUMBER

E100

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FLOOR PLAN POWER GENERAL NOTES:

A. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT. MODIFY LAYOUT AS REQUIRED PER CODE AND MANUFACTURER'S SPACE REQUIREMENTS.

B. REFER TO FIRE ALARM AND MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL FIRE SMOKE DAMPERS. PROVIDE LOCAL DISCONNECTING MEANS (I.E. TOGGLE SWITCH) AT EACH FIRE SMOKE DAMPER LABELED WITH THE AHU SERVING THE DAMPER. REFER TO ELECTRICAL DETAILS FOR POWER REQUIREMENTS TO THE FIRE SMOKE DAMPER.

C. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.

D. PROVIDE LOCAL DISCONNECTING MEANS (I.E. TOGGLE SWITCH, KEY SWITCH) FOR ALL HARDWIRED CONNECTIONS, INCLUDING JUNCTION BOX CONNECTIONS, REGARDLESS OF IF ITS SHOWN ON THE PLANS.

E. ALL EQUIPMENT SHALL BE COORDINATED WITH THE SUPPLYING CONTRACTOR. ELECTRICAL TERMINATIONS SHALL BE ADJUSTED TO MATCH FINAL LAYOUT.

F. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

FLOOR PLAN TECHNOLOGY GENERAL NOTES:

A. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL BACKBOXES, CONDUITS, POWER POLES, CABLE TRAYS, AND OTHER ASSOCIATED PATHWAYS FOR TECHNOLOGY CABLING. INSTALLATION OF J-HOOKS MAY BE DELEGATED TO THE TECHNOLOGY CONTRACTOR AS REQUIRED. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING FOR THE INSTALLATION OF TECHNOLOGY RACEWAYS. UNLESS NOTED OTHERWISE, ALL CONDUITS AND JUNCTION BOXES SHALL BE CONCEALED IN WALLS AND CEILINGS. SURFACE RACEWAY OR EXPOSED CONDUIT IS NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. IN HARD CEILING AREAS, THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX AND ACCESS PANEL LOCATIONS WITH THE GENERAL CONTRACTOR.

B. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING TECHNOLOGY SYSTEMS THAT ARE NOT PART OF THE PROJECT SCOPE BUT ARE LOCATED WITHIN OR PASS THROUGH THE PROJECT WORK AREAS. THIS INCLUDES SYSTEMS SHOWN ON THE DRAWINGS AS WELL AS ANY THAT MAY NOT BE SHOWN BUT ARE DISCOVERED DURING THE COURSE OF WORK. ANY SUCH SYSTEMS THAT NEED TO REMAIN IN SERVICE SHALL NOT BE REMOVED, DISCONNECTED, OR DAMAGED. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND SAFEGUARDING THESE SYSTEMS TO PREVENT SERVICE INTERRUPTIONS THROUGHOUT DEMOLITION AND CONSTRUCTION.

C. FOR FINAL LOCATIONS OF CEILING-MOUNTED EQUIPMENT, REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. ANY EQUIPMENT NOT SHOWN ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH OTHER ITEMS SHOWN. ALL COORDINATION SHALL BE COMPLETED PRIOR TO ANY ROUGH-IN. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY.

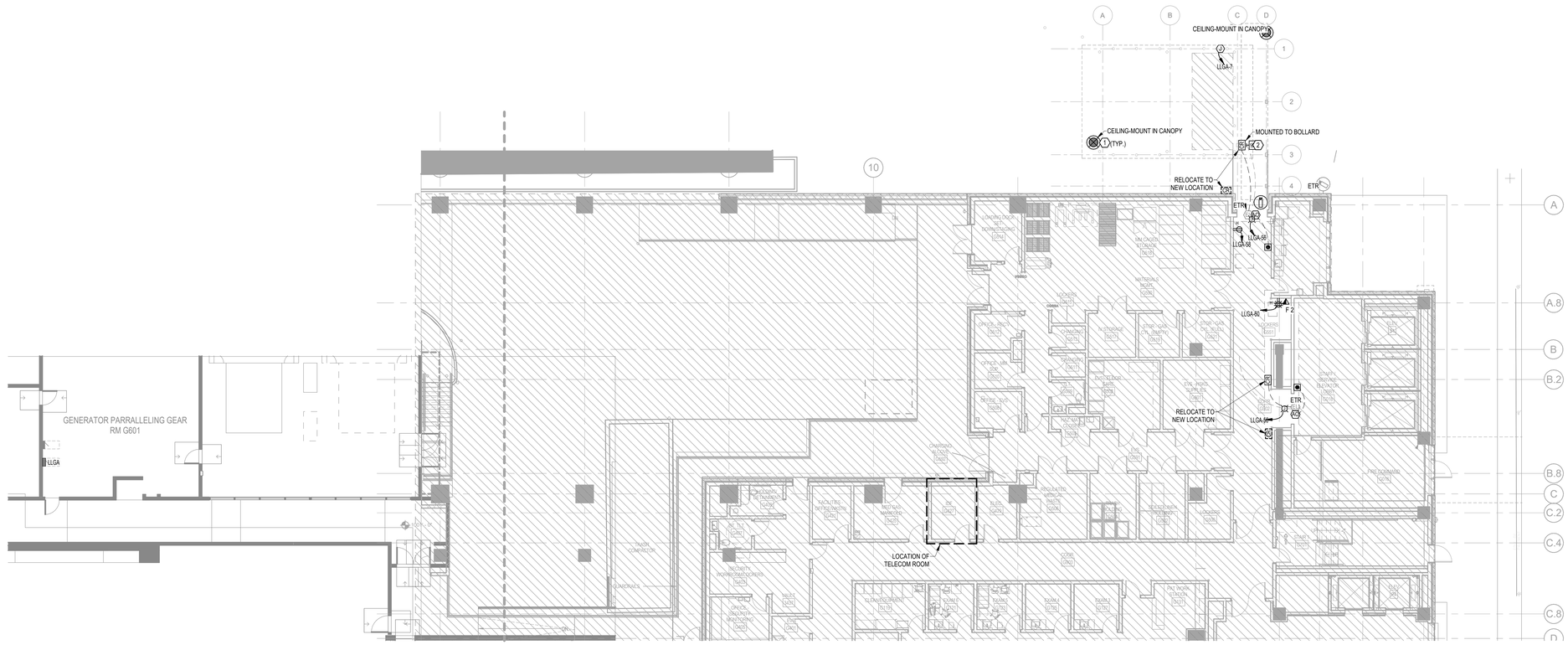
D. OPENINGS AROUND CONDUITS OR IN SLEEVES PENETRATING FIRE-RATED FLOORS, WALLS, PARTITIONS, OR CEILINGS SHALL BE SEALED ON BOTH SIDES OF THE PENETRATION. INSULATION SHALL NOT EXTEND THROUGH SLEEVES. PACK OPENINGS WITH CALCIUM SILICATE BLOCK, DOW CORNING 3-6548 RTV SILICONE FOAM, 3M CP25 CAULK, 303 PUTTY FIRE BARRIER SYSTEM, OR AN APPROVED EQUIVALENT MATCHING THE FIRE RATING OF THE PENETRATED ASSEMBLY. FIBERGLASS IS NOT ACCEPTABLE.

E. ALL WORK SHALL BE PERFORMED IN A CLEAN, WORKMANLIKE MANNER AND IN ACCORDANCE WITH INDUSTRY STANDARDS, BEST PRACTICES, AND MANUFACTURER RECOMMENDATIONS. ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL BY ENGINEER, ARCHITECT AND OWNER. ANY SUB-STANDARD WORK SHALL BE CORRECTED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

F. PRIOR TO ROUGH-IN, REFER TO MANUFACTURER RECOMMENDATIONS FOR MOUNTING HEIGHTS OF INTERCOM STATIONS AND ENSURE COMPLIANCE WITH ADA REQUIREMENTS.

FLOOR PLAN KEYNOTES:

1. HOME-RUN NEW COMMUNICATIONS CABLING TO EXISTING TELECOM ROOM (IDF G427), SEE LOCATION ON THIS SHEET.
2. INTERCOM SYSTEM SHALL BE TIES IN TO GRADY SECURITY AND MAIN ENTRY DESK OF CORRELL PAVILION.



1 GROUND LEVEL - ELECTRICAL - POWER & TECHNOLOGY
3/32" = 1'-0"

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GRADY HEALTH SYSTEM

GRADY HOSPITAL - CORRELL AMBULANCE CANOPY

80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE044777 TAWAN C. MARTIN 10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE

ELECTRICAL - POWER & TECHNOLOGY

SHEET NUMBER

E101

10/24/2025 12:29:33 PM

LIGHTING KEYNOTES:

1. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES IN THE AREA OF WORK. REMOVE WIRING AND CONDUIT BACK TO THE SOURCE OR NEXT ACTIVE DEVICE TO REMAIN. UPDATE PANEL SCHEDULE AS NECESSARY. MAINTAIN CIRCUIT CONTINUITY.
2. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES IN THE AREA OF WORK. REMOVE WIRING AND CONDUIT BACK TO THE SOURCE OR NEXT ACTIVE DEVICE TO REMAIN. UPDATE PANEL SCHEDULE AS NECESSARY. MAINTAIN CIRCUIT CONTINUITY.
3. CONNECT NEW LIGHTS IN AREA OF WORK TO CIRCUIT USED FOR DEMOLISHED LIGHTS. CONFIRM CIRCUIT IS AN EMERGENCY CIRCUIT.

GENERAL LIGHTING PLAN NOTES:

A. REFER TO ARCHITECTURAL CEILING PLAN FOR FINAL PLACEMENT AND LOCATION OF ALL CANOPY MOUNTED LIGHT FIXTURES.

B. REFER TO ARCHITECTURAL ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF ALL WALL MOUNTED LIGHT FIXTURES.

C. SURFACE-MOUNTED RACEWAY IS NOT PERMITTED FOR INTERCONNECTION BETWEEN MULTIPLE UNDERCABINET LIGHT FIXTURES. BACKFEED ALL FIXTURES.

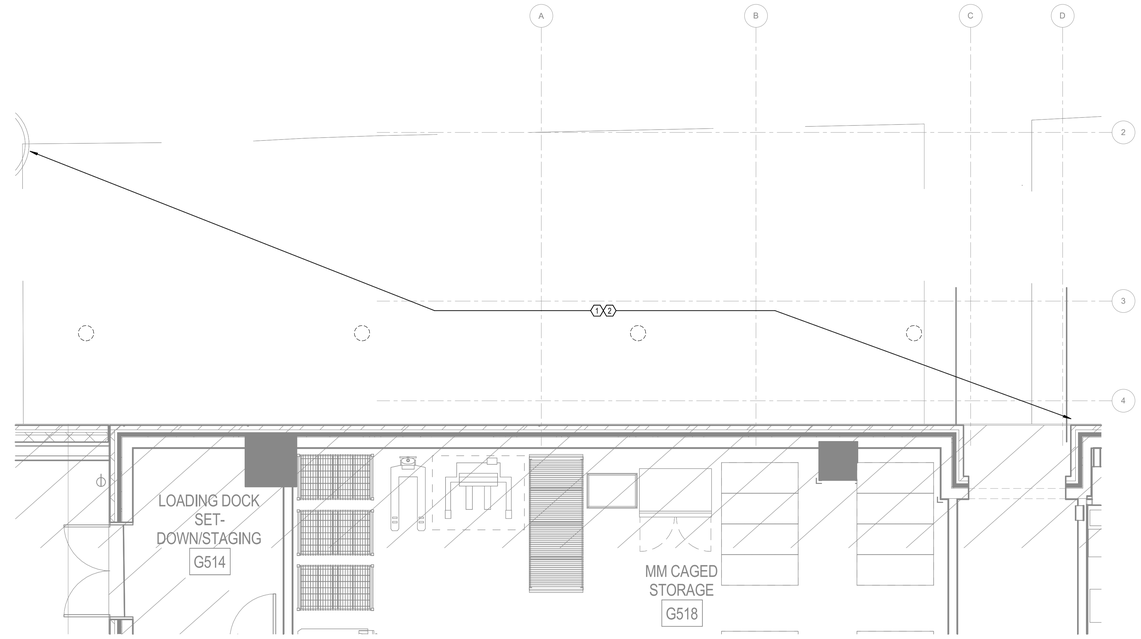
D. ALL DIMMING WIRING, E.G. 0-10V, SHALL BE 600V THHN TYPE INSULATION AND INSTALLED IN CONDUIT.

E. TYPICAL FOR ALL FIXTURES WITH BATTERIES: BATTERY SHALL BE WIRED UNSWITCHED SUCH THAT LIGHT FIXTURE IS CONTROLLED VIA THE LOCAL SWITCH AND THE BATTERY CAN CHARGE REGARDLESS OF SWITCH POSITION. UPON LOSS OF POWER, BATTERY SHALL TURN THE FIXTURE ON, REGARDLESS OF SWITCH POSITION FOR A MINIMUM OF 90 MINUTES.

F. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

G. CONTRACTOR SHALL PROVIDE SUPPLEMENTAL EXIT SIGNS AS REQUIRED FOR VISIBILITY.

H. ALL LIGHTING CONNECTED TO THE LIFE SAFETY OR EMERGENCY (NEC ARTICLE 700) BRANCHES SHALL BE UNSWITCHED AND REMAIN ON AT ALL TIMES.



1 Level 100-ELECTRICAL - DEMO LIGHITNG
1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

A. ALL LED FIXTURES SHALL BE MINIMUM 50,000 HOURS L70, CRI 80+.

B. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTS FIXTURES LOCATED IN FIRE-RATED CEILINGS.

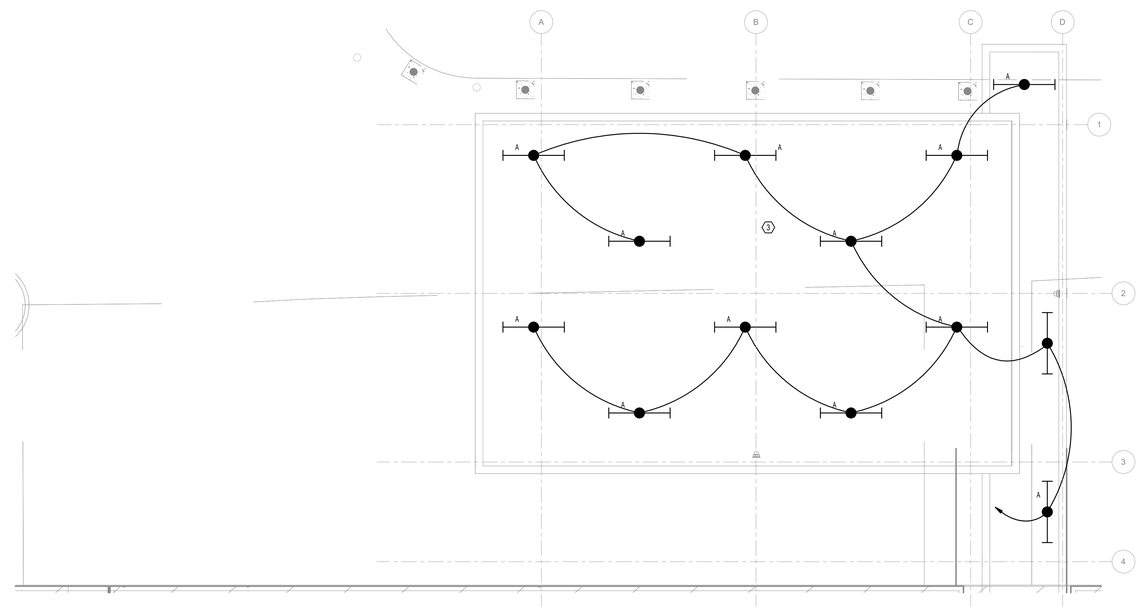
C. IF THERE IS A DISCREPANCY BETWEEN THE FIXTURE DESCRIPTION, THE LIGHTING GENERAL NOTES, THE LIGHTING SPECIFICATIONS, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION SHALL TAKE PRECEDENCE.

D. WHERE A SINGLE MANUFACTURER IS LISTED WITH A CORRESPONDING CATALOG NUMBER, THIS MANUFACTURER SHALL BE CONSIDERED THE BASIS OF DESIGN SELECTION. OTHER MANUFACTURERS WILL BE CONSIDERED AS "APPROVED EQUAL" ONLY IF THEIR LIGHTING FIXTURE MEETS OR EXCEEDS THE BASIS OF DESIGN SELECTION IN TYPE AND QUALITY OF CONSTRUCTION, LOUVER FINISHES, LENSES, HOUSING FINISHES, PHOTOMETRICS, SELECTED OPTIONS AND ACCESSORIES. APPROVED EQUAL MANUFACTURERS MUST ALSO MATCH OVERALL APPEARANCE AND DIMENSIONS OF BASIS OF DESIGN SELECTION. WHERE ONLY A MANUFACTURER'S NAME IS LISTED, THE FIXTURE SHALL COMPLY WITH THE DESCRIPTION, VOLTAGE, LAMP TYPE AND WATTAGE, AND ANY NOTED REMARKS, THE LIGHTING FIXTURE SCHEDULE NOTES, AND THE LIGHTING SPECIFICATIONS.

E. EQUAL FIXTURES THAT FOLLOW THE BASIS OF DESIGN CAN BE PROVIDED BY COOPER LIGHTING, SESCO LIGHTING, AND HUBBELL LIGHTING.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / MODEL	LAMP SOURCE	FIXTURE WATTAGE	FIXTURE W / LF	COMMENTS
A	2' LED STRIP GASKETED LOW PROFILE LED WITH SENSOR	LITHONIA # FEMLL24-3000LM-LPAFL-MD-MVOLT-CZ10-40K-80CRI-ETS-WLFEND2-TRS-SBOR10P OR APPROVED EQUAL	LED 4000K	13.00 W		



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GRADY HEALTH SYSTEM

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044777 TAWAN C. MARTIN 10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE

ELECTRICAL - LIGHTING

SHEET NUMBER

E201

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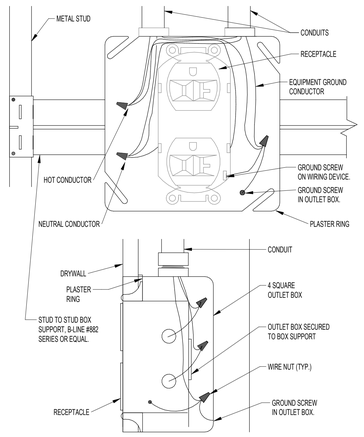
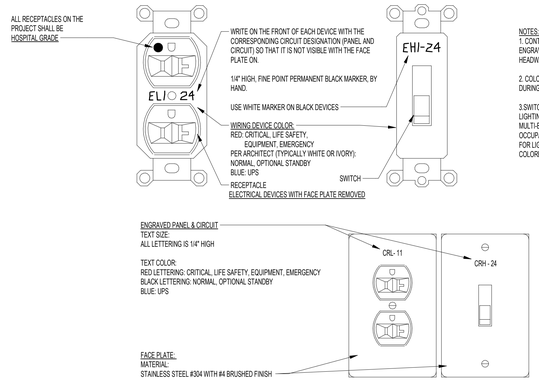


TYPICAL RECEPTACLE MOUNTING
No Scale

3



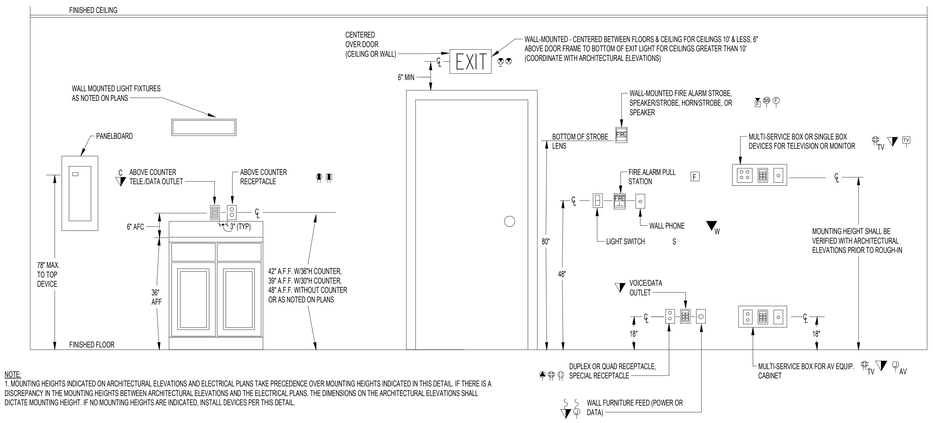
NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR ALL LABELING, WHETHER ENGRAVED OR WRITTEN, INCLUDING THOSE ON OWNER-FURNISHED HEADWALLS.

2. COLORS OF FACEPLATES AND WIRING DEVICES SHALL BE CONFIRMED DURING WIRING DEVICE SUBMITTAL.

3.SWITCH COLOR AND LABELING REQUIREMENTS SHALL APPLY TO ALL LIGHTING CONTROL WALL DEVICES INCLUDING: LOW VOLTAGE, MULTI-BUTTON, DIMMERS, MOMENTARY, SWITCHES WITH INTEGRATED OCCUPANCY/VACANCY SENSORS, TIMERS, LINE VOLTAGE, 3-WAY, ETC. FOR LIGHTING CONTROL TOUCHSCREENS UNAVAILABLE IN RED, USE COLORED PHENOLIC LABELING.

DEVICE COVER PLATE
No Scale

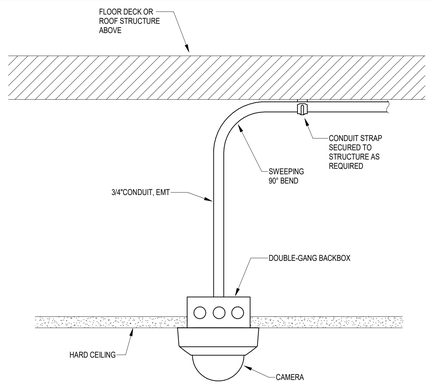
2



NOTE:
1. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL ELEVATIONS AND ELECTRICAL PLANS TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATED IN THIS DETAIL. IF THERE IS A DISCREPANCY IN THE MOUNTING HEIGHTS BETWEEN ARCHITECTURAL ELEVATIONS AND THE ELECTRICAL PLANS, THE DIMENSIONS ON THE ARCHITECTURAL ELEVATIONS SHALL DICTATE MOUNTING HEIGHT. IF NO MOUNTING HEIGHTS ARE INDICATED, INSTALL DEVICES PER THIS DETAIL.

MOUNTING HEIGHTS
No Scale

1

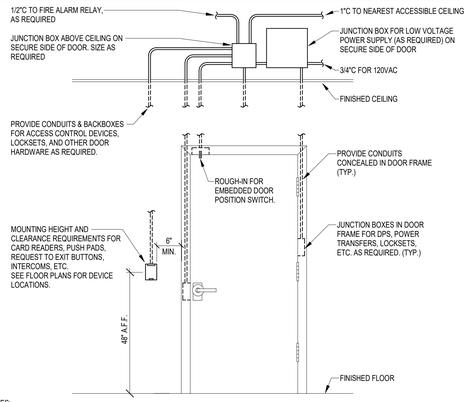


NOTES:

PROVIDE CONDUIT ABOVE HARD CEILINGS WHENEVER POSSIBLE. IN SCENARIOS WHERE EXISTING CONDITIONS LIMIT ACCESS TO ABOVE THE HARD CEILING AND CONDUIT CAN NOT BE RUN, CONDUIT MAY BE OMITTED AND CATEGORY CABLE SHALL BE RUN OR FISHED DIRECTLY TO THE ACCESS POINT BACKBOX. PROVIDE GROMMET IN BACKBOX FOR CABLE PASS-THRU. PROVIDE J-HOOK CABLE SUPPORT ABOVE CEILING FOR CABLE RUN WHEREVER POSSIBLE.

MOUNTING DETAIL, DOME CAMERA, CEILING
No Scale

7



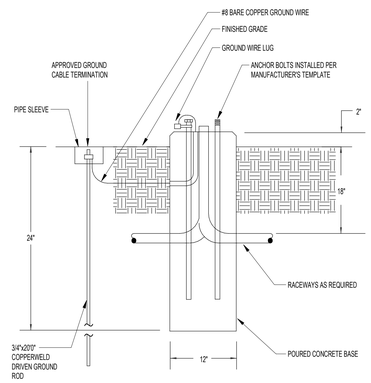
NOTES:

A. THIS DETAIL SHOWS TYPICAL ROUGH-IN REQUIREMENTS AND DOES NOT REPRESENT ACTUAL DOOR TYPE, SIZE, SWING, HARDWARE OR FUNCTIONALITY. **REFER TO ARCHITECTURAL DRAWINGS, DOOR HARDWARE SCHEDULE AND DIVISION 8 SPECIFICATIONS FOR COMPLETE HARDWARE REQUIREMENTS. COORDINATE ALL ROUGH-INS WITH G.C. AND ACCESS CONTROL INSTALLER**. ADAPT CONDUITS AND WIRING AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

B. REFER TO ACCESS CONTROL WIRING DIAGRAM FOR WIRING REQUIREMENTS. ALL CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN CONDUIT OR SURFACE MOUNT RACEWAY. ALL CONDUITS 3/4" EMT, U.N.O. CABLING ROUTED HORIZONTALLY ABOVE THE ACCESSIBLE CEILING MAY BE INSTALLED FREE-AIR IF PROPERLY RATED FOR THE CEILING ENVIRONMENT. PROVIDE J-HOOK SUPPORTS FOR ALL FREE-AIR RUN CABLES.

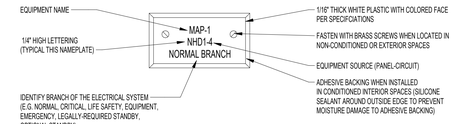
ROUGH-IN DETAIL, ACCESS CONTROL
No Scale

6



BOLLARD LIGHTING BASE DETAIL
No Scale

5



TYPICAL SMALL EQUIPMENT TAG

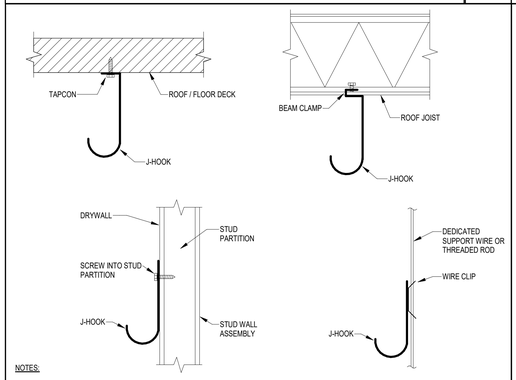
THIS TAG SHALL BE PROVIDED AND INSTALLED ON ALL HARDWIRED EQUIPMENT EITHER VISIBLE TO THE PUBLIC OR INSTALLED IN TECHNOLOGY, ELECTRICAL, MECHANICAL ROOMS/CLOSETS OR FACILITY ANNUNCIATION ROOMS SUCH AS FIRE COMMAND CENTER, PBX ROOM, 24-HOUR SECURITY LOCATION, AND ENGINEERING/FACILTIES.

EXAMPLES INCLUDE: PNEUMATIC TUBE STATIONS, MED GAS ALARM PANELS, FIRE ALARM PANELS, NURSE CALL EQUIPMENT CABINETS, SECURITY PANELS , AUTOMATIC DOOR OPERATORS.

BRANCH	PLATE AND LETTERING COLOR
LIFE SAFETY	YELLOW WITH BLACK LETTERING
EQUIPMENT	GREEN WITH WHITE LETTERING
CRITICAL	ORANGE WITH WHITE LETTERING
NORMAL	BLACK WITH WHITE LETTERING
UPS	BLUE WITH WHITE LETTERING

SMALL EQUIPMENT NAMEPLATE
No Scale

4



NOTES:

A. FOR ALL COMMUNICATIONS CABLING, J-HOOKS SHALL BE USED WHERE CABLE TRAY IS NOT AVAILABLE. **ZIP TIES, BRIDLE RINGS OR SIMILAR DEVICES SHALL NOT BE USED TO SUPPORT COMMUNICATIONS CABLING.**

B. J-HOOKS SHALL BE INSTALLED WITH SPACING NOT TO EXCEED 60" AND SHALL BE SECURELY ANCHORED TO BUILDING SUPPORT STRUCTURE PER MANUFACTURER'S INSTRUCTIONS.

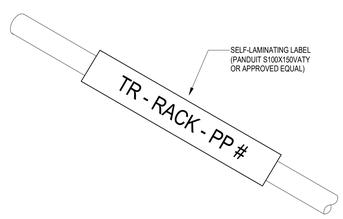
C. J-HOOKS SHALL BE INSTALLED WITHIN 1FT. OF BUSHED CONDUIT ENDS STUBBED ABOVE THE CEILING AND INSTALLED ON BOTH SIDES OF ANY BEND GREATER THAN 45 DEGREES.

D. DEDICATED SUPPORT WIRES FOR J-HOOKS SHALL BE INSTALLED IN CONFORMANCE WITH NEC 300.11(B). USE OF CEILING GRID SUPPORT WIRES FOR J-HOOKS OR CABLE SUPPORT IS A VIOLATION OF NEC 300.11(B).

E. J-HOOKS SHALL BE CADDY CAT HP SERIES OR ENGINEER APPROVED EQUAL.

RACEWAY DETAIL, J-HOOK
No Scale

11



COPPER HORIZONTAL CABLE

CABLE IDENTIFIER IS:
TR ID - RACK # - PATCH PANEL & PORT #

LABELING EXAMPLE:
TR 3B - R1 - B05

NOTES:

A. ALL LABELING SHALL BE MACHINE GENERATED, SELF-LAMINATING LABELS.

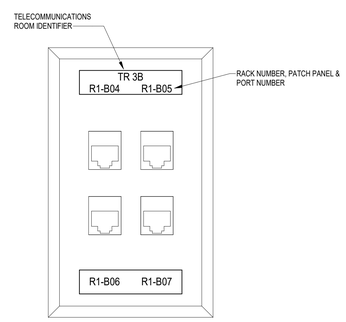
B. PROVIDE LABELS AT EACH END OF CABLE, 6" FROM TERMINATION POINT.

C. IF ONLY ONE RACK IN TELECOM ROOM, OMIT RACK NUMBER.

D. GENERAL EXAMPLE ONLY. **VERIFY LABELING SCHEME WITH OWNER'S IT DEPARTMENT.**

LABELING DETAIL, HORIZONTAL COPPER CABLE
No Scale

10



NOTES:

A. **ALL LABELING SHALL BE MACHINE GENERATED AND INSTALLED UNDER FACTORY PLASTIC COVER.**

B. IF ONLY ONE RACK IN TELECOM ROOM, OMIT RACK NUMBER.

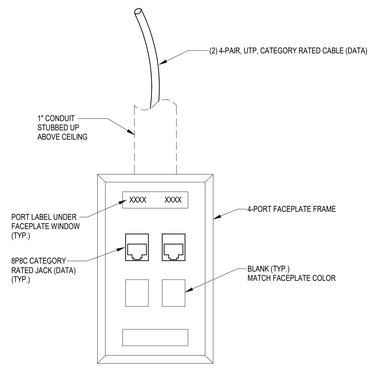
C. GENERAL EXAMPLE ONLY. **VERIFY ALL LABELING SCHEMES WITH OWNER'S IT DEPARTMENT.**

LABELING DETAIL, COMMUNICATIONS OUTLET
No Scale

9

NOTES:

A. REFER TO CABLING & JACK SCHEDULE FOR CATEGORY RATINGS AND COLORS OF CABLES & JACKS.



F2

COMMUNICATIONS OUTLET DETAIL - F2
No Scale

8

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GRADY HEALTH SYSTEM

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PROJECT NO: 25017.00

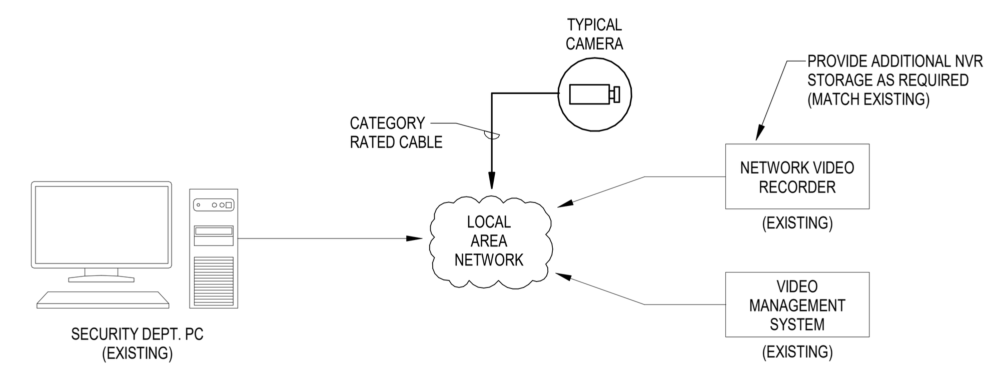
1	95% CD	09/17/2025

GEORGIA REGISTERED PE044777 PROFESSIONAL ENGINEER TAWAN C. MARTIN
10/24/25

Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E601



NOTES:

A. ALL SURVEILLANCE HARDWARE SHALL CONFORM TO GRADY HEALTH SECURITY STANDARDS. TIE INTO GRADY HEALTH EXISTING VIDEO MANAGEMENT SYSTEM TO PROVIDE A FUNCTIONAL EXTENSION OF THE EXISTING SYSTEM.

B. CAMERA MAKE/MODEL SHALL BE AVIGILON AVA OR ALTA SERIES. COORDINATE SPECIFIC MODEL NUMBERS WITH GRADY HEALTH SECURITY DEPARTMENT.

C. PRIOR TO ROUGH-IN, COORDINATE CAMERA LOCATIONS WITH LIGHTING, HVAC, STRUCTURE, ETC. FOR AN UNOBSTRUCTED FIELD OF VIEW. CONSULT WITH OWNER, ARCHITECT AND ENGINEER AS REQUIRED.

D. AIM AND FOCUS CAMERAS FOR EXACT VIEWS DESIRED BY THE OWNER. FIELD VERIFY AND PROVIDE CAMERA LENSING AS REQUIRED TO MEET DESIRED VIEWS.

E. PROVIDE ALL CAMERA LICENSING, PROGRAMMING AND NVR STORAGE SPACE AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. COORDINATE RECORDING PARAMETERS WITH THE OWNER.

F. INTEGRATE NEW CAMERAS WITH THE OWNER'S EXISTING SURVEILLANCE SYSTEM AS REQUIRED. PROVIDE SUFFICIENT ADDITIONAL NVR STORAGE UNITS OR HARD DISKS AS REQUIRED TO ACCOMMODATE ALL NEW CAMERAS INSTALLED DURING THIS PROJECT. COORDINATE REQUIREMENTS AND INSTALLATION OF ADDITIONAL STORAGE SPACE WITH THE OWNER.

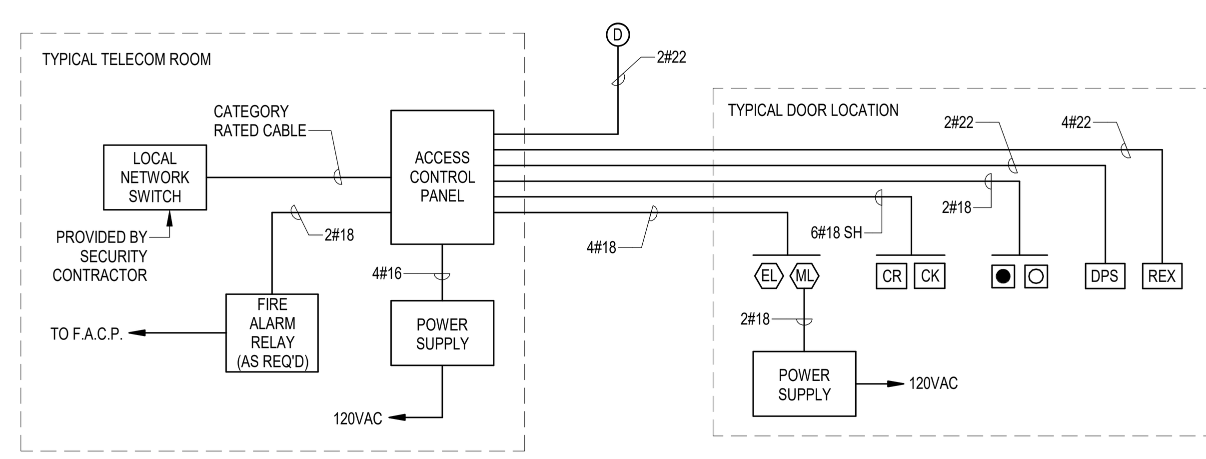
G. COORDINATE IP ADDRESSING OF CAMERAS WITH THE OWNER.

H. ACTIVATE TAMPERING ALARMS ON ALL CAMERAS.

I. PROVIDE AND CONFIGURE SD CARDS IN CAMERAS FOR BACKUP STORAGE IF NETWORK CONNECTION IS UNAVAILABLE.

J. PROVIDE AND INSTALL CAMERA VIEWING SOFTWARE ON OWNER PROVIDED COMPUTERS AS DIRECTED BY OWNER.

3 WIRING DIAGRAM, VIDEO SURVEILLANCE
No Scale



ACCESS CONTROL WIRING DIAGRAM GENERAL NOTES:

A. ALL ACCESS CONTROL HARDWARE SHALL CONFORM TO GRADY HEALTH STANDARDS. TIE NEW HARDWARE IN TO EXISTING ACCESS CONTROL SYSTEM TO PROVIDE A FUNCTIONAL EXTENSION OF THE EXISTING SYSTEM. EXISTING SYSTEM IS CONTINENTAL ACCESS. COORDINATE WITH GRADY HEALTH SECURITY DEPARTMENT.

B. DOOR WIRING DETAILS INDICATE TYPICAL DEVICE WIRING AND CONNECTIONS. NOT ALL DEVICES MAY BE IN PROJECT SCOPE.

C. VERIFY DEVICES, CONNECTIONS, AND QUANTITIES WITH ARCHITECTURAL DRAWINGS, DOOR HARDWARE SCHEDULE AND DIVISION 8 SPECIFICATIONS. COORDINATE REQUIREMENTS WITH THE ACCESS CONTROL SYSTEM MANUFACTURER.

D. VERIFY ALL DEVICE WIRING WITH MANUFACTURER RECOMMENDATIONS, VOLTAGE DROP SHALL BE CALCULATED AND COORDINATED FOR DOORS WITH REMOTE POWER SUPPLIES AND DOOR CONTROL MODULES. PROVIDE ALL WIRING AS REQUIRED FOR AN OPERABLE SYSTEM.

E. SYSTEM SHALL BE CONFIGURED, PROGRAMMED, AND FULLY OPERATIONAL AT TIME OF TURN OVER TO THE OWNER. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND SOFTWARE LICENSING REQUIRED FOR THE ACCESS CONTROL SYSTEM.

F. COORDINATE DOOR OPERATION REQUIREMENTS WITH APPROVED DOOR HARDWARE SPECIFICATIONS, THE ARCHITECT, AND THE OWNER. ALL TIMING SEQUENCES SHALL BE VERIFIED AND APPROVED BY THE OWNER PRIOR TO ANY PROGRAMMING.

G. COORDINATE IP ADDRESSING OF ALL DEVICES WITH OWNER'S IT DEPARTMENT.

H. ACCESS CONTROL SYSTEM NETWORK INTERFACE CONNECTION SHALL BE TERMINATED ON PATCH PANELS IN THE LOCAL TELECOM ROOM. PATCH INTO THE NETWORK EDGE SWITCH. COORDINATE WITH THE OWNER.

I. DOOR CONTACTS SHALL BE INSTALLED ON ALL ACCESS CONTROLLED DOORS. DOOR CONTACTS SHALL BE HARD WIRED THROUGH ACCESS CONTROL PANEL TO INTRUSION DETECTION CONTROL PANEL AS REQUIRED. CONTACT SHALL SHUNT UPON RELEASE OF DOOR VIA VALID CARD READ.

J. DOOR CONTACTS SHOWN ON PLANS BUT NOT ASSOCIATED WITH ACCESS CONTROLLED DOORS SHALL BE HARD WIRED TO ACCESS CONTROL PANEL OR INTRUSION DETECTION CONTROL PANEL, AS APPLICABLE.

K. COORDINATE TIE-IN OF FIRE ALARM RELAY INTO FIRE ALARM SYSTEM WITH FIRE ALARM CONTRACTOR. FIRE ALARM RELAY P.B.O.

L. SUBMIT A DETAILED WIRING DIAGRAM FOR THE ACCESS CONTROL SYSTEM, INCLUDING DOOR HARDWARE POINT TO POINT DIAGRAM. INDICATE WIRE SIZE, TYPE, AND NUMBER OF WIRES. INDICATE MAXIMUM LENGTH TO DEVICES FROM CONTROL UNITS.

2 WIRING DIAGRAM, ACCESS CONTROL
NTS

IN ACCORDANCE WITH GRADY HEALTH STANDARD PRACTICES, THE FOLLOWING COLOR CODES SHALL APPLY TO CABLES AND MODULAR JACKS:

SYSTEM	CABLE COLOR & PART NUMBER	JACK COLOR & PART NUMBER
ANALOG VOICE	WHITE COMMSCOPE UN874049704/10	WHITE COMMSCOPE UNJ600-262
DATA	BLUE COMMSCOPE UN874029504/10	BLUE COMMSCOPE UNJ600-BL
WIRELESS ACCESS POINTS	GREEN CAT-6A COMMSCOPE UN874035904/10	GREEN CAT-6A COMMSCOPE USL10G-GRN
VIDEO SURVEILLANCE	PINK COMMSCOPE UN874033904/10	RED COMMSCOPE UNJ600-RD
ACCESS CONTROL	YELLOW COMMSCOPE UN874029504/10	YELLOW COMMSCOPE UNJ600-YL
TV OUTLET	VIOLET COMMSCOPE UN874026304/10	VIOLET COMMSCOPE UNJ600-VL
PHILIPS PATIENT MONITORS	ORANGE COMMSCOPE UN874027604/10	ORANGE COMMSCOPE UNJ600-OR
NURSE CALL	GREEN COMMSCOPE UN874046304/10	GREEN COMMSCOPE UNJ600-GN
HUGS	YELLOW COMMSCOPE UN874029504/10	YELLOW COMMSCOPE UNJ600-YL

NOTES:

A. NOT ALL SYSTEMS LISTED MAY BE USED IN THE SCOPE OF THIS PROJECT.

B. EXCEPT FOR WIRELESS ACCES POINTS, ALL CABLES & JACKS SHALL BE CATEGORY-6.

C. **CABLE AND JACK MANUFACTURER SUBSTITUTIONS WILL NOT BE ACCEPTED.**

D. UNLESS NOTED OTHERWISE ON DRAWINGS, FACEPLATE MATERIALS & COLORS SHALL MATCH ELECTRICAL OUTLETS. BASIS OF DESIGN; COMMSCOPE 108168543.

E. FACEPLATES FOR PHILIPS MONITORS SHALL BE STAINLESS STEEL, WITH GREY BLANKS (AS REQUIRED).

F. ANY PATCH CABLES PROVIDED SHALL BE FROM SAME MANUFACTURER AS CABLES OR JACKS.

G. ADDITIONAL CABLE TYPES MAY BE SPECIFIED ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.

H. FOR ANY DISCREPANCIES BETWEEN THIS SCHEDULE AND OTHER TECHNOLOGY DETAILS, THIS SCHEDULE SHALL TAKE PRECEDENCE.

CABLING & JACK SCHEDULE (GRADY HEALTH) 1
No Scale

GENERAL PANEL SCHEDULE NOTES:

A. PROVIDE UPDATED AND ACCURATE TYPED PANEL SCHEDULES FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT AFFECTED BY THE SCOPE OF WORK. SCHEDULES SHALL INDICATE LOAD SERVED AND LOCATION INFORMATION SUCH AS ROOM NAME AND NUMBER. PANEL SCHEDULE SHALL INCLUDE ISSUANCE DATE.

B. CONDUCTOR AWG SIZES SHALL INCREASE DEPENDING ON FIELD-MEASURED CIRCUIT LENGTHS AND VOLTAGE DROP.

C. EACH MULTIWIRE CIRCUIT SHALL BE PROVIDED WITH A LISTED MEANS OF BEING ABLE TO SIMULTANEOUSLY DISCONNECT ALL BREAKERS SERVING THE MULTIWIRE CIRCUIT IN ACCORDANCE WITH NEC.

D. FOR EXISTING CIRCUITS NO LONGER IN USE UPON COMPLETION OF PROJECT, BREAKER SHALL BE TURNED OFF AND PANEL SCHEDULE SHALL BE UPDATED TO SHOW THE BREAKER AS "SPARE".

NAME: LLGA — EXISTING

LOCATION: | SUPPLY FROM: | MOUNTING: SURFACE | ENCLOSURE: NEMA 1 | DIST. / PHASE / WIRES: 208Y/120V / 3 / 4 | MAX. HEIGHT BUSING: YES | K.A.I.C. RATING: 65 | MAINS TYPE: MCB | FEED THRU: NO | RATING: 175 A

KN	CKT	CIRCUIT DESCRIPTION	TRIP(A)	P	A (KVA)		B (KVA)		C (KVA)		P	TRIP(A)	CIRCUIT DESCRIPTION	CKT	KN
	1				0.400	0.800					1	20	(EXIST) LGT - CORRIDORS	2	
	3	(EXIST) NITROGEN GENERATORS	30	3			0.400	0.900			1	20	(EXIST) LGT - CORRIDORS	4	
	5								0.400	1.200	1	20	(EXIST) LGT - ELEC, SWTCHGR, GEN ROOM	6	
	7	CORRELL AMBULANCE GATE	20	1	0.120	1.200					1	20	(EXIST) LGT - GARAGE LINEARS	8	
	9	(EXIST) PARKING GATE	20	1			0.400	1.000			1	20	(EXIST) LGT - STAIR 2	10	
	11	(EXIST) RCPT - MED GAS MANIFOLD G425	20	1					0.700	1.100	1	20	(EXIST) LGT - STAIR 2	12	
	13	(EXIST) RCPT - MED GAS MANIFOLD G425	20	1	0.500	1.100					1	20	(EXIST) LGT - STAIR 3	14	
	15	(EXIST) AUTO DOORS	20	1			1.400	1.000			1	20	(EXIST) LGT - STAIR 3	16	
	17	(EXIST) RCPT - FIRE PUMP ROOM	20	1					0.400	0.100	1	20	(EXIST) CAB LTG - SERVICE ELEV 1	18	
	19	(EXIST) FUEL PUMP FP-1-1	25	2	0.800	0.100					1	20	(EXIST) CAB LTG - SERVICE ELEV 2	20	
	21						0.800	0.100			1	20	(EXIST) CAB LTG - SERVICE ELEV 3	22	
	23	(EXIST) FUEL PUMP FP-1-2	25	2					0.800	1.400	1	20	(EXIST) LGT - SERV ELEV SHAFT	24	
	25				0.800	1.400					1	20	(EXIST) LGT - SERV ELEV SHAFT	26	
	27	(EXIST) FUEL TANK LEAK SENSOR	20	1			0.200	1.400			1	20	(EXIST) LGT - SERV ELEV SHAFT	28	
	29	(EXIST) FUEL TANK PNEUMERATOR	20	1					0.200	1.400	1	20	(EXIST) LGT - SERV ELEV SHAFT	30	
	31	(EXIST) GEN 1 BATTERY CHARGER	20	1	0.200	1.100					1	20	(EXIST) LGT - SERV ELEV SHAFT	32	
	33	(EXIST) GEN 2 BATTERY CHARGER	20	1			0.200	1.100			1	20	(EXIST) LGT - SERV ELEV SHAFT	34	
	35	(EXIST) GEN 1 JACKET HEATER	20	1					1.920	1.300	1	20	(EXIST) LTG - SITE POLES	36	
	37	(EXIST) GEN 2 JACKET HEATER	20	1	1.920	0.000								38	
	39	(EXIST) GEN 1 & 2 DAYTANK	20	1			0.500	0.000			3	30	(EXIST) SPD	40	
	41	(EXIST) EXISTING EQUIPMENT	20	1					0.500	0.000				42	
	43	(EXIST) FACP-G-1	20	1	0.500	0.500					1	20	(EXIST) RCPT - FIRE COMMAND ROOM G016	44	
	45	(EXIST) DRY PIPE COMP STAIR 3 1703	20	1			0.200	0.400			1	20	(EXIST) RCPT - FIRE COMMAND ROOM G016	46	
	47	(EXIST) DRY PIPE COMP. FIRE PUMP RM	20	1					0.900	0.200	1	20	(EXIST) SPARE CKT - FIRE COMMAND G016	48	
	49	(EXIST) RCPT - GEN GEAR RM G601	20	1	0.700	0.200					1	20	(EXIST) SPARE CKT - FIRE COMMAND G016	50	
	51	(EXIST) RCPT - GENERATOR ROOM G600	20	1			0.500	0.200			1	20	(EXIST) SPARE CKT - FIRE COMMAND G016	52	
	53	(EXIST) AUTO DOORS	20	1					1.200	0.169	**1**	**20**	**NEW LIGHTING EXTERIOR CANOPY**	**54**	
	55	(EXIST) AUTO DOORS	20	1	1.200	0.800					**1**	**20**	**NEW AUTO DOORS**	**56**	
	57	(EXIST) AUTO DOORS	20	1			0.800	0.200			**1**	**20**	**NEW EVOLV SECURITY SYSTEM**	**58**	
	59	(EXIST) FUEL FILLING STATION FFP-1	20	1					0.200	0.400	**1**	**20**	**NEW RECEPTACLE - CORRIDOR**	**60**	
	61	(EXIST) DRY PIPE COMP STAIR 3 2703	20	1	0.900	0.000					1	20	Spare	62	
	63	(EXIST) DRY PIPE COMP STAIR 3 3703	20	1			0.900	0.000			1	20	Spare	64	
	65	(EXIST) DRY PIPE COMP STAIR 3 4703	20	1					0.900	0.000	1	20	Spare	66	
	67	(EXIST) GENERATOR ROOM LOUVERS	20	1	0.500	0.000					1	20	Spare	68	
	69	Spare	20	1			0.000	0.000			1	20	Spare	70	
	71	Spare	20	1					0.000	0.000	1	20	Spare	72	
	73	Spare	20	1	0.000	0.000					1	20	Spare	74	
	75	Spare	20	1			0.000	0.000			1	20	Spare	76	
	77	(EXIST) EQUIPMENT	20	1					0.500	0.000	1	20	Spare	78	
	79				0.500	0.000					1	20	Spare	80	
	81	(EXIST) EQUIPMENT	20	3			0.500	0.000			1	20	Spare	82	
	83								0.500	0.000	1	20	Spare	84	
		CONNECTED PHASE LOAD (KVA)			16.109		13.070		16.306						
		CONNECTED PHASE AMPS (A)			138.140		108.920		139.783						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
EQUIPMENT	44825 VA	100.00%	44825 VA
LIGHTING	169 VA	100.00%	169 VA
RECEPTACLE	600 VA	100.00%	600 VA

PANEL TOTALS

TOTAL CONNECTED LOAD (KVA): 45.484
TOTAL DEMAND LOAD (KVA): 45.484
TOTAL DEMAND CURRENT (A): 126

KEYNOTES (KN):
PANEL LOCATED IN GENERATOR PARRALLELING GEAR ROOM #G601
LINES IN BOLD INDICATE NEW CIRCUITS

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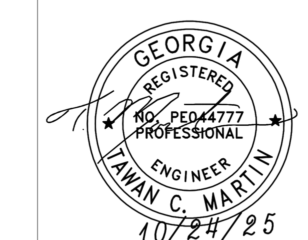
GRADY HEALTH SYSTEM
GRADY HOSPITAL - CORRELL AMBULANCE CANOPY
80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025



Tawan Martin, P.E.
Georgia License # PE044777

SHEET TITLE
ELECTRICAL DETAILS & SCHEDULES

SHEET NUMBER
E602

10/24/2025 12:29:44 PM

GENERAL STRUCTURAL NOTES

GN-1 DUTIES AND RESPONSIBILITIES
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 THE OWNER, CONTRACTOR, ENGINEER, 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 STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS OR EMPLOYEES ANY DUTY OF 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.

GN-2 CODE AND STANDARDS REFERENCES
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.

GN-3 CONTRACT DOCUMENT CONFLICTS
1. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATION OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
2. IN THE EVENT OF CONFLICTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, LANDSCAPE AND CIVIL DRAWINGS, AS WELL AS ANY OTHER APPLICABLE TRADES. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THEIR BID FOR THE MORE SEVERE REQUIREMENTS. CONFLICTS BETWEEN THE STRUCTURAL WORK AND THE DRAWINGS OF OTHER TRADES SHALL NOT BE REASON FOR ANY EXTRA COST OR DELAY IN EXECUTION OF WORK.

GN-4 CONTRACT DOCUMENT CONTENT
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. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS.

GN-5 CONTRACTOR COORDINATION
1. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, LANDSCAPE AND CIVIL DOCUMENTS. ARCHITECT / STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. COORDINATION SHALL INCLUDE, BUT IS NOT LIMITED TO, EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, CMU WALL LOCATIONS, EXISTING DIMENSIONS, AND ELEVATIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
3. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. IF WEIGHT OF EQUIPMENT PURCHASED EXCEEDS THAT SHOWN ON THE STRUCTURAL DRAWINGS OR THE FOOTPRINT / LOCATION OF EQUIPMENT IS DIFFERENT THAN SHOWN ON THE STRUCTURAL DRAWINGS, NOTIFY STRUCTURAL ENGINEER FOR POSSIBLE REDESIGN.
4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RELOCATING (WHEN THERE IS A CONFLICT) ALL UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY OR OTHERWISE INTERFERE WITH INSTALLATION OF NEW WORK.
5. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAINWALL / WINDOW WALL SYSTEMS, COLD-FORM METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH ITEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHERS.

GN-6 MEANS AND METHODS
THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, AND SEQUENCES AS WELL AS COMPLIANCE WITH ALL OSHA SAFETY PRECAUTIONS AND REGULATIONS, AND PROCEDURES OF CONSTRUCTION DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GN-7 MATERIALS
ALL MATERIALS, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE AND SPECIFICATIONS.

GN-8 TEMPORARY GUYING AND BRACING
THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GN-9 CONSTRUCTION LOADS
LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD-CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA" NOTES. DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND ALL TEMPORARY BRACING IS IN PLACE.

GN-10 TYPICAL DETAILS
DRAWINGS INDICATE TYPICAL DETAILS OF CONSTRUCTION. THESE DETAILS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION MAY BE USED, SUBJECT TO APPROVAL BY THE ENGINEER. DECISIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER. CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.

GN-11 STRUCTURAL SYSTEMS ERECTION
ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.

GN-12 SPECIAL INSPECTIONS
THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR AT LEAST 72 HOURS IN ADVANCE FOR WORK THAT WILL REQUIRE INSPECTION OR TESTING.

GN-13 CONTRACTOR SITE VISITS
CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.

POST-INSTALLED ANCHORS

PA-1 ADHESIVE ANCHOR SYSTEMS USED FOR DESIGN:
SEISMIC DESIGN CATEGORY A -F
ADHESIVE: HILTI HIT-HY 200 V3
THREADED ROD: HILTI HAS OR HIT-Z
OVERHEAD AND/OR CONSTANT TENSION ADHESIVE ANCHOR INSTALLATIONS NOT SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED UNLESS EACH CONDITION IS REVIEWED AND APPROVED IN WRITING BY THE SER.
PA-2 PROOF TESTING OF ADHESIVE ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. UNLESS NOTED OTHERWISE, ADHESIVE ANCHOR PROOF TENSION LOADS SHALL BE PER THE ADHESIVE ANCHOR PROOF SCHEDULES.
PA-3 FIELD DRILLED EXPANSION ANCHOR SYSTEMS USED FOR DESIGN:
HILTI KWIK BOLT TZ2
PA-4 PROOF TESTING OF EXPANSION ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. UNLESS NOTED OTHERWISE, EXPANSION ANCHOR PROOF TORQUE LOADS SHALL BE PER THE EXPANSION ANCHOR PROOF SCHEDULES.
PA-5 FIELD DRILLED THREADED SCREW ANCHOR SYSTEMS USED FOR DESIGN:
HILTI KH-EZ
PA-6 ALTERNATIVE SYSTEM EQUIVALENT TO OR EXCEEDING THE PROPERTIES OF THE SYSTEMS ABOVE WILL BE CONSIDERED AS A SUBSTITUTION REQUEST. SEE PROJECT SPECIFICATIONS.
PA-7 ANCHORS ARE TO BE MINIMUM 3/4"DIAMETER WITH A MINIMUM EMBEDMENT OF 6", UON.
PA-8 INSTALL ANCHORS TO MEET THE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS AND THE CURRENT MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MPII).
PA-9 LOCATE, BY NON-DESTRUCTIVE MEANS, AND AVOID ALL EXISTING REINFORCEMENT PRIOR TO INSTALLATION OF ANCHORS. IF EXISTING REINFORCING LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONALS.
PA-10 INSTALL ANCHORS IN SOLID MASONRY OR IN HOLLOW MASONRY THAT HAS BEEN GROUTED SOLID AT LEAST ONE COURSE ABOVE TO ONE COURSE BELOW THE ANCHOR, UON.
PA-11 SEE PROJECT SPECIFICATIONS FOR POST-INSTALLED ANCHOR INSPECTION REQUIREMENTS.

DESIGN CRITERIA

DC-1 GENERAL BUILDING CODES
THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE FOLLOWING DESIGN CODE AND STANDARDS AND / OR CRITERIA:

GENERAL	2018 INTERNATIONAL BUILDING CODE AND ADOPTED GEORGIA STATE AMENDMENTS
CONCRETE	ACI 318-14
STRUCTURAL STEEL	AISC 360 - LRFD (15TH EDITION)

DC-2 LIVE LOADS
GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE:
• ROOF 20 PSF

DC-3 SNOW LOAD CRITERIA
• P_g, GROUND SNOW LOAD 5 PSF

DC-4 LATERAL FORCE RESISTING SYSTEM

1. WIND LOADS
WIND PRESSURES ARE BASED ON THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16. DESIGN WIND LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

• WIND SPEED, V	119 MPH
• WIND SPEED, V_{asd}	91 MPH
• EXPOSURE CATEGORY	C
• RISK CATEGORY	IV

2. SEISMIC DESIGN CRITERIA
DESIGN SEISMIC CRITERIA USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

• RISK CATEGORY	IV
• S_S, 0.2 SEC. SPECTRAL ACCELERATION (%G)	0.183
• S_1, 1 SEC. SPECTRAL ACCELERATION (%G)	0.085
• SITE CLASS	C
• F_a, SITE COEFFICIENT, SHORT PERIOD	1.3
• F_v, SITE COEFFICIENT, 1 SECOND PERIOD	1.5
• S_{DS}, SPECTRAL RESPONSE ACCELERATION PARAMETER (SHORT PERIOD)	0.158
• S_{D1}, SPECTRAL RESPONSE ACCELERATION PARAMETER (1 SECOND PERIOD)	0.085
• SEISMIC DESIGN CATEGORY	C

CAST-IN-PLACE CONCRETE

CC-1 CONCRETE SPECIFICATION
1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
2. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (±1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260.
3. ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS AS SPECIFIED IN THE TABLE BELOW U.N.O. ON THE DRAWINGS:

USAGE REMARKS	28 DAY COMP. STRENGTH, PSI	CONC. TYPE	MAX. AGG, IN	EXPOSURE CLASS
A. FOOTINGS	5000	NWT	1	F0, S0, W1, C1
B. FOUNDATION WALLS	5000	NWT	1	F1, S0, W1, C1

CC-2 SLAB ON GRADE
1. UNLESS NOTED OTHERWISE, SLAB ON GRADE SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT IN FLAT SHEETS (ROLLS NOT PERMITTED). WELDED WIRE REINFORCEMENT SHALL BE PLACED 1" BELOW THE TOP OF THE SLAB (OR WITHIN THE TOP 1/3). LAP WELDED WIRE REINFORCEMENT A MINIMUM OF 2 SQUARES AT STAGGERED SPLICES.
2. SLAB ON GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 4" OF POROUS MATERIAL. PRIOR TO PLACING THE POROUS MATERIAL, THE SUBGRADE SHALL BE PROPERLY COMPACTED, PROOFROLLED, FREE OF STANDING WATER, MUD AND FROZEN SOIL. BEFORE PLACEMENT OF THE CONCRETE, A POLYETHYLENE VAPOR RETARDER SHALL BE PLACED ON TOP OF THE POROUS MATERIAL. SEE ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
   A. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING A 1-1/2" SIEVE (MAX. AGGREGATE SIZE OF 1") AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO AT LEAST 95% MAX. DRY DENSITY PER ASTM D698.
3. PLACE CONTRACTION JOINTS AT COLUMN LINES AND INTERMEDIATE LOCATIONS AS REQUIRED IN BOTH DIRECTIONS SUCH THAT THE AREA OF EACH PANEL DOES NOT EXCEED 400 SQUARE FEET. CONTRACTION JOINTS SHALL NOT BE SPACED FURTHER THAN 18'-0" OR WITH A LENGTH TO WIDTH RATIO GREATER THAN 1:1.5. LOCATE CONSTRUCTION JOINTS AT CONTRACTION JOINTS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS. THE ARCHITECT / ENGINEER SHALL APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
4. SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS. FILLING OF JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. WHERE THE SLAB IS TO RECEIVE SENSITIVE ARCHITECTURAL FLOOR FINISHES, SUCH AS CERAMIC TILE, ALL JOINTS IN SLAB CONSTRUCTION SHALL BE PLACED TO ALIGN WITH THE JOINTS IN THE FINISHED MATERIAL.
6. THE CONTRACTOR IS CAUTIONED AGAINST LOADING THE SLAB ON GRADE WITH CRANE LOADS. THE SLAB HAS NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN SLAB THICKNESS AND / OR REINFORCEMENT. THE CONTRACTOR IS REQUIRED TO SUBMIT CALCULATIONS SIGNED AND SEALED BY A REGISTERED STRUCTURAL / PROFESSIONAL IN GEORGIA VERIFYING THE ADEQUACY OF THE SLAB.
7. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.

CC-3 FORMWORK
FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.

PRICING NOTES

BID PRICING SHALL INCLUDE ALL PRICING INFORMATION PROVIDED BELOW. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR CLARIFICATION / INFORMATION PRIOR TO SOLIDIFYING BIDS IF ADDITIONAL INFORMATION IS REQUIRED.

PN-1 STEEL FRAMING
1. ALL STRUCTURAL STEEL EXPOSED TO WEATHER AND/OR CORROSION SHALL BE HOT-DIPPED GALVANIZED (INCLUDING SHELF ANGLES). ANCHOR RODS EXPOSED TO WEATHER AND / OR CORROSION SHALL BE STAINLESS STEEL.

PN-2 EMBED PLATES
1. ALL BEAMS FRAMING INTO CONCRETE SHALL HAVE EMBED PLATES.

PN-3 FOUNDATIONS
1. CONCRETE PILASTERS SHALL BE ASSUMED AT ALL FOOTINGS LOWER THAN 3'-0" BELOW SLAB ON GRADE.
2. ASSUME SPREAD FOOTINGS EXTEND 1'-0" BEYOND FIN WALLS. REINFORCEMENT SHOULD EXTEND ACCORDINGLY.
3. DO NOT SCALE CONTINUOUS FOUNDATIONS OR SPREAD FOOTINGS SHOWN ON PLANS. REFER TO TYPICAL DETAILS AND SPECIFIC PLANS DETAILS FOR FOUNDATION INFORMATION.

CONTINGENCIES:

CG-1 THE CONTRACTOR'S COST ESTIMATES / PRICING, BIDS AND CONTRACT PRICE SHALL INCLUDE NORMAL CONTINGENCIES THROUGH THE CONSTRUCTION COMPLETION.

EXISTING CONDITIONS

EC-1 CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT / STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
EC-2 RENOVATION OF EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS, DIMENSIONS, AND DETAILS PRIOR TO BEGINNING CONSTRUCTION. REPORT ANY DEVIATIONS FROM CONDITIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE DESIGN PROFESSIONAL FOR REVIEW OF THE DESIGN AND POSSIBLE REVISION OF THE CONTRACT DOCUMENTS.
EC-3 THE NATURE OF STRUCTURAL DEMOLITION AND STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED PRIOR TO THE COMMENCEMENT OF WORK. AS A RESULT, IT IS IMPERATIVE TO REPORT ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, AS WELL AS ANY ELEMENT OF QUESTIONABLE STRUCTURAL INTEGRITY IMMEDIATELY TO THE DESIGN PROFESSIONAL OF RECORD FOR REVIEW.
EC-4 NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED, OR REPLACED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE CONDITION OF INDIVIDUAL STRUCTURAL ELEMENTS TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED, AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE DESIGN PROFESSIONAL OF RECORD TO DETERMINE THE APPROPRIATE PROCEDURE FOR HANDLING ELEMENTS IN QUESTIONABLE CONDITION.
EC-5 CONTRACTOR SHALL ASSESS WHICH ARCHITECTURAL ELEMENTS SHALL BE DEMOLISHED AS A RESULT OF THE STRUCTURAL ELEMENTS THAT ARE REQUIRED TO BE DEMOLISHED AND DETERMINE IF ALL MODIFICATIONS AS INDICATED IN THE DRAWINGS ARE FEASIBLE AND PRACTICAL AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS TO THE DESIGN PROFESSIONAL.

FOUNDATION NOTES

FD-1 GEOTECHNICAL REPORT
FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY TERRACON WHICH WILL BE AVAILABLE TO THE GENERAL CONTRACTOR UPON REQUEST TO THE OWNER. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN NOR THE ACCURACY OR APPLICABILITY OF SUCH DATA. DATA CONCERNING SUBSURFACE MATERIALS OR CONDITIONS WHICH ARE BASED UPON SOUNDINGS, TEST PITS, TEST BORINGS, OR OTHER MEANS, HAVE BEEN OBTAINED BY THE DESIGN PROFESSIONAL FOR USE IN DESIGNING THE STRUCTURE. THE ACCURACY OR COMPLETENESS OF THE DATA IS NOT GUARANTEED; AND THEREFORE, THE CONSTRUCTION PROFESSIONAL SHALL NOT RELY ON THIS INFORMATION WITHOUT INDEPENDENT VERIFICATION. THE CONSTRUCTION PROFESSIONAL WILL NOT BE RESPONSIBLE IN ANY WAY FOR ADDITIONAL COMPENSATION EXCEPT AS PROVIDED IN THE GENERAL REQUIREMENTS SECTION - CHANGES DUE TO SUBSURFACE OR OTHER UNFORESEEN CONDITIONS.

FD-2 FOUNDATION COORDINATION
PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. ARCHITECT / STRUCTURAL ENGINEER SHALL BE NOTIFIED AND APPROVAL OBTAINED BEFORE FOOTINGS ARE TO BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.

FD-3 FOUNDATION CONDITION DISCREPANCIES
FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ARCHITECT, STRUCTURAL ENGINEER, AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING, OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED CONDITIONS.

FD-4 SUBGRADE PREPARATION
1. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION, AND PREPARATION OF THE SUBGRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DEWATERING REQUIRED FOR THE EXCAVATION. THE CONTRACTOR SHALL SUBMIT TO THE GEOTECHNICAL ENGINEER FOR REVIEW THE PROPOSED PLAN FOR CONSTRUCTION DEWATERING, PRIOR TO BEGINNING THE EXCAVATION.
3. THE CONTRACTOR SHALL REFERENCE SPECIFICATIONS, GEOTECHNICAL REPORT, AND CONSULT GEOTECHNICAL ENGINEER FOR STRUCTURAL FILL COMPACTION AND TESTING REQUIREMENTS.
4. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED AND CERTIFIED FOR THE ADEQUACY OF THE BEARING MEDIUM BY A STRUCTURAL TESTING / INSPECTION AGENCY PRIOR TO PLACING FOUNDATION CONCRETE.
5. EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL FIVE FEET (MINIMUM) BEYOND THE BUILDING LIMITS. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
6. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
7. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL, FULL HEIGHT OF WALL. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED.

FD-5 CONCRETE FOOTINGS
1. TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE.
2. ALL FOOTINGS (SPREAD FOOTINGS AND CONTINUOUS FOOTINGS) SHALL BEAR ON MATERIAL CAPABLE OF SUPPORTING THE SPECIFIED DESIGN BEARING NET PRESSURES:
   SPREAD FOOTINGS 2,000 PSF
   CONTINUOUS FOOTINGS 2,000 PSF
3. THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES U.N.O.
4. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH ISOLATED OR CONTINUOUS FOOTINGS.
5. DO NOT SCALE FOUNDATIONS ON PLAN. CONTACT DESIGN PROFESSIONAL WITH ANY QUESTIONS CONCERNING FOUNDATION SIZES AND / OR REINFORCEMENT PRIOR TO PRICING OF DOCUMENTS.

REINFORCING STEEL

RS-1 REINFORCING STEEL SPECIFICATION
1. METHODS OF ESTIMATING, DETAILING, FABRICATING, PLACING AND CONTRACTING FOR REINFORCING MATERIALS SHALL FOLLOW THE MANUAL OF STANDARD PRACTICE AS PUBLISHED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
2. DETAILING OF BAR SUPPORTS, INCLUDING HOOKS AND BENDS, FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI STANDARD DETAILS AND DETAILING OF CONCRETE REINFORCEMENT AS REPORTED BY ACI COMMITTEE 315.
3. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 U.N.O.
4. WELDED WIRE REINFORCEMENT (FLAT SHEETS ONLY) SHALL CONFORM TO ASTM A1064 AND HAVE A MINIMUM SIDE AND END LAPS OF 8"
5. DEFORMED BAR ANCHORS SHALL BE ASTM A1064 MINIMUM YIELD STRENGTH 70,000 PSI AS NOTED ON THE DRAWINGS. REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR DEFORMED BAR ANCHORS.

RS-2 CONCRETE REINFORCEMENT - GENERAL
1. CONCRETE REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.
2. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE, EXCEPT VERTICAL DOWELS FOR MASONRY WALL REINFORCING MAY BE "FLOATED" IN PLACE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.

RS-3 HORIZONTAL REINFORCEMENT
HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 36 BAR DIAMETERS AT CORNERS AND INTERSECTIONS

RS-4 REINFORCEMENT STEEL COVERAGE
UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT LAYER NEAREST TO THE SURFACE:
1. CONCRETE SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
   A. #6 THROUGH #18 BARS - 2"
   B. #5 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"
3. CONCRETE SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
   A. #3 TO #11 BARS IN ELEVATED SLABS, WALLS, JOISTS - 3/4"
   B. #3 TO #18 BARS IN BEAMS, COLUMNS - 1 1/2"
4. PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

RS-5 REINFORCEMENT SPLICES
ALL REINFORCING DESIGNATED AS CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES U.N.O. REINFORCEMENT BAR SPLICES IN GRADE BEAMS SHALL BE LOCATED AT THE CENTERLINE OF SUPPORTS FOR BOTTOM BARS AND AT MIDSPAN FOR TOP BARS. PROVIDE STANDARD ACI HOOKS FOR TOP AND BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS.
1. THE FOLLOWING NOTATIONS ARE USED ON THE DRAWINGS TO DENOTE REINFORCING STEEL EMBEDMENT LENGTHS AND SPLICE TYPES:
   • CD - COMPRESSION DEVELOPMENT LENGTH, 22 BAR DIAMETERS
   • TD - TENSION DEVELOPMENT LENGTH
   • CS - COMPRESSION SPLICE, 30 BAR DIAMETER
   • EB - END BEARING COMPRESSION SPLICE
   • M - MECHANICAL ANCHORAGE SPLICE OR OTHER TENSION SPLICE TYPE DEVELOPING 125% FY IN TENSION
   • A - CLASS A TENSION SPLICE
   • B - CLASS B TENSION SPLICE
2. UNSCHEDULED BEAMS, GRADE BEAMS, AND SLABS SHALL HAVE CONTINUOUS TOP BARS LAPPED AT MIDSPAN BETWEEN SUPPORTS WITH A CLASS A TENSION SPLICE. BOTTOM BARS SHALL BE LAPPED AT THE SUPPORTS WITH A CLASS A TENSION SPLICE.

RS-6 SHRINKAGE AND TEMPERATURE REINFORCEMENT
PROVIDE #4@18" O.C. SHRINKAGE AND TEMPERATURE REINFORCEMENT AT RIGHT ANGLES TO MAIN TOP AND BOTTOM BARS FOR ALL STRUCTURAL SLABS UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

RS-7 TOPPING SLABS AND HOUSEKEEPING PADS
AS A MINIMUM PROVIDE WELDED SMOOTH WIRE REINFORCEMENT W6X6-W2.9X2.9 IN ALL TOPPING SLABS AND HOUSEKEEPING PADS SUPPORTING MECHANICAL EQUIPMENT WHETHER SHOWN ON THE DRAWINGS OR NOT UNLESS HEAVIER REINFORCEMENT IS CALLED FOR ON THE DRAWINGS.

RS-8 PLACEMENT OF WELDED WIRE REINFORCEMENT
WELDED WIRE REINFORCEMENT SHALL BE CONTINUOUS ACROSS THE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING AT SPLICES. PRECAST CONCRETE BLOCKS USED FOR THE POSITIONING OF THE WELDED WIRE REINFORCEMENT SHALL HAVE A COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB. THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER.

RS-9 STEEL OVERAGE ALLOWANCE
PROVIDE FOR AN ALLOWANCE OF 5% OF TOTAL REINFORCING STEEL FOR THE PROJECT TO BE DETAILED, FABRICATED, AND PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER IN ADDITION TO REINFORCING STEEL INDICATED ON THE DRAWINGS. CREDIT THE OWNER ANY UNUSED QUANTITY AT THE END OF THE PROJECT.

STRUCTURAL STEEL

SS-1 STRUCTURAL STEEL SPECIFICATION
1. STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND MAINTAIN DETAILED QUALITY CONTROL PROCEDURES AS REQUIRED TO SATISFY THE SPECIAL INSPECTION REQUIREMENTS.
2. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE LOAD AND RESISTANCE FACTOR DESIGN (L.R.F.D) FIFTEENTH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AISC.
3. THE OWNER SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PROVIDE SPECIAL INSPECTIONS OF BOLTING, WELDING AND OTHER ITEMS IN ACCORDANCE WITH SPECIFIED CODE. CONTRACTOR TO CLEARLY MARK THE GRADE OF STEEL ON EACH PIECE WITH A DISTINGUISHING MARK VISIBLE FROM THE FLOOR LEVEL FOR THE PURPOSE OF FIELD INSPECTIONS.
4. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING BRICK SHELF ANGLES, SHALL BE HOT-DIP GALVANIZED OR ZINC-RICH SHOP PRIMED WHERE ARCHITECTURAL EXTERIOR PAINT IS SPECIFIED.
5. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE SHOP PAINTED.
6. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS U.N.O:

DESCRIPTION	ASTM	GRADE
A. WIDE-FLANGE, WT SHAPES AND CHANNELS.	A992 OR A572	F_y = 50 KSI
B. S SHAPES, M SHAPES, HP SHAPES	A572	F_y = 50 KSI
C. ANGLES AND PLATES	A572	F_y = 50 KSI
D. PIPE COLUMNS	A53	B (FY = 35 KSI)
E. ROUND HOLLOW STRUCTURAL SECTIONS (HSS)	A500	C (FY = 50 KSI)
F. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	A500	C (FY = 50 KSI)
G. THREADED RODS	A36	Fy = 36 KSI

SS-2 STRUCTURAL DESIGN
1. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SS-3 CONNECTIONS
1. CONNECTIONS NOT COMPLETELY DETAILED ON THE DRAWINGS INCLUDING MATERIAL GRADE AND SIZES, WELD SIZES, AND NUMBER OF BOLTS SHALL BE DESIGNED BY THE CONTRACTOR PER THE SPECIFICATIONS. THE DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS SHALL BE DESIGNED WITH THAT ARRANGEMENT CONCEPT. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTORS SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS OF SUCH CONNECTIONS SHALL BE SUBMITTED BEARING THE SIGNED AND DATED SEAL OF A LICENSED STRUCTURAL/PROFESSIONAL ENGINEER IN GEORGIA. SHOP DRAWING REVIEW BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS.
2. ALL CONNECTION MATERIAL, INCLUDING STIFFENERS, BEARING AND GUSSET PLATES, ANGLES, ETC. U.N.O. HEREIN OR ON THE DRAWINGS SHALL CONFORM TO ASTM A572 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. ALL CONNECTIONS SHALL BE SHEAR TYPE CONNECTIONS AND DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR LOAD AND RESISTANCE FACTOR DESIGN FOR THE FACTORED REACTION FORCES INDICATED ON PLAN. MINIMUM REACTION FORCE TO BE 10 KIPS U.N.O.
5. SPECIAL OR COMPLEX CONNECTIONS THAT ARE TO BE DESIGNED BY THE FABRICATOR ARE DENOTED AS SUCH ON PLAN. THE FABRICATOR SHALL DESIGN THESE CONNECTIONS FOR THE FORCES SHOWN AND SUBMIT CALCULATIONS AND SHOP DRAWINGS BEARING THE SIGNED AND DATED SEAL OF A LICENSED STRUCTURAL/PROFESSIONAL ENGINEER REGISTERED IN GEORGIA.
6. WHERE STEEL BEAMS BEAR ACROSS BUILDING EXPANSION JOINTS, PROVIDE A "SLIP" CONNECTION.
7. UNLESS NOTED OTHERWISE, MEMBER SPLICES (SHOWN OR REQUESTED BY THE DETAILER) SHALL BE DESIGNED FOR DESIGN CAPACITY OF THE MEMBER.
8. DEVELOP THE LARGER OF THE AXIAL FORCE DENOTED AS P OR TF SHOWN ON PLANS OR ELEVATIONS. SEE STEEL BEAM LEGEND.
9. ALL BEAM REACTIONS, AXIAL FORCES AND MOMENTS SHOWN ACT CONCURRENTLY, U.N.O. BEAM REACTIONS ACT IN GRAVITY DIRECTION WHILE AXIAL FORCES AND MOMENTS ARE TO BE CONSIDERED REVERSIBLE.
10. AT A MINIMUM, ALL BOLTED MOMENT AND AXIAL CONNECTIONS SHALL HAVE PRETENSIONED BOLTS IN STANDARD HOLES.

SS-4 STRUCTURAL BOLTS, FASTENERS, ANCHOR RODS, AND HEADED STUDS
1. ALL BOLTS IN STRUCTURAL CONNECTIONS SHALL CONFORM TO ASTM F3125 AND HAVE A MINIMUM DIAMETER OF 3/4".
2. ALL PINS IN PIN CONNECTED MEMBERS SHALL CONFORM TO ASTM A36 AND ASTM A108 FOR PINS 4 INCHES IN DIAMETER AND SMALLER, AND ASTM A668-CLASS D (FY=37,500 PSI) FOR PINS GREATER THAN 4 INCHES IN DIAMETER.
3. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 55 (WITH SUPPLEMENTARY REQUIREMENT S1) AND BE MINIMUM OF 3/4" INCHES IN DIAMETER AND EMBEDDED INTO THE CONCRETE FOUNDATION A MINIMUM DISTANCE OF 9" WITH A HEAVY HEX NUT AT THE EMBEDDED END. STRIKE BOLT THREADS AT THE EMBEDDED END AT TWO PLACES BELOW THE NUT.
4. HEADED STUDS SHALL HAVE A MINIMUM DIAMETER OF 3/4" AND A MINIMUM LENGTH OF 4-1/2" AND CONFORM TO AWS D1.1.
5. REFER TO AISC TABLE J3.3 FOR HOLE SIZES.

SS-5 WELDING
1. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1-15 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY. USE 70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW) ELECTRODES. WEATHERING STEEL ELECTRODES SHALL CONFORM TO TABLE 3.3 OF THE ANSI/AWS D1.1 MANUAL U.N.O..
2. ELECTRODES FOR GRADE 60 OR GRADE 65 MATERIAL SHALL CONFORM TO E80XX (SMAW), F8XX-XX (SAW), ER80S-S (GMAW), OR E8XT-X (FCAW)
3. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
4. WHERE "CONTINUOUS CHORD" ANGLES ARE INDICATED, PROVIDE A CONTINUOUS BUTT WELD OR FULL PENETRATION WELD AT THE SPLICE POINTS. THE STEEL FABRICATOR MAY SUBMIT AN ALTERNATE BOLTED CONNECTION DETAIL FOR APPROVAL.
5. FIELD WELDING SHALL BE SHOWN ON ERECTION DRAWINGS.
6. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4, "STRUCTURAL WELDING CODE - REINFORCING STEEL" BY THE AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318-14, SECTION 26.6.4.
7. REFER TO ARCHITECTURAL DOCUMENTS FOR EXPOSED STEEL AND JOINT LOCATIONS AND REQUIREMENTS. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO ARCHITECT APPROVAL. FABRICATOR SHALL ALTER JOINT DETAILING AS REQUIRED TO ENSURE THAT EFFECTIVE THROAT SPECIFIED IN WELD DETAIL IS MAINTAINED AFTER GRINDING OF WELD SURFACE.
8. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE SPECIAL INSPECTOR.
9. ALL TESTING SHALL BE PAID FOR BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS.
10. MINIMUM FILLET WELD SIZE SHALL BE 3/16" UNLESS NOTED OTHERWISE.

SS-6 GROUT
GROUT BELOW STRUCTURAL STEEL PLATES SHALL BE A NON-METALLIC, NON-SHRINK GROUT WITH A MINIMUM STRENGTH OF 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE OR LESS, A STRENGTH OF 8000 PSI WHEN BEARING ON CONCRETE BETWEEN 3000 AND 4000 PSI AND A STRENGTH OF 10000 PSI WHEN BEARING ON CONCRETE GREATER THAN 4000 PSI, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SS-7 STEEL OVERAGE ALLOWANCE
PROVIDE AN ALLOWANCE OF 5% OF THE TOTAL STRUCTURAL STEEL FOR THE PROJECT TO BE DETAILED, FABRICATED AND INSTALLED DURING THE PROGRESS OF THE WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD IN ADDITION TO STRUCTURAL STEEL INDICATED ON THE DRAWINGS. POST-BID COSTS SHOULD BE ACCOUNTED FOR IN THE ALLOWANCE. CREDIT THE OWNER ANY UNUSED QUANTITY AT THE END OF THE PROJECT.

SS-8 ERECTION
1. ALL HOLES IN STEEL SHALL BE DRILLED OR PUNCHED WITH SLOTTED HOLES HAVING SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
2. ALL PROTECTIVE COATINGS DAMAGED DURING THE TRANSPORTING, ERECTION AND FIELD WELDING PROCESSES SHALL BE REPAIRED IN THE FIELD TO MATCH THE SHOP APPLIED COATING.
3. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING.
4. FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE SEOR.

SPECIAL INSPECTIONS

SI-1 THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL TESTING AND/OR INSPECTIONS:
• SECTION 03 1100 CONCRETE FORMING
• SECTION 03 2000 CONCRETE REINFORCING
• SECTION 03 3000 CAST-IN-PLACE CONCRETE
• SECTION 05 1200 STRUCTURAL STEEL FRAMING
• SECTION 31 2210 BUILDING EARTHWORK

SI-2 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH IBC SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

DELEGATED DESIGN ITEMS

DD-1 THE CONTRACTOR SHALL EMPLOY OR RETAIN A DESIGN PROFESSIONA ENGINEER LICENSED IN GEORGIA TO DESIGN AND DETAIL DELEGATED DESIGN ITEMS TO THE PERFORMANCE AND DESIGN CRITERIA ESTABLISHED AS PART OF THE BASE BUILDING STRUCTURE INDICATED IN THE CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
• PRE-FABRICATED PRE-ENGINEERED CANOPY STRUCTURE
• SCREEN WALL PANELS

DD-2 COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE ENGINEER-OF-RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A DESIGN PROFESSIONAL LICENSED IN THE STATE OF GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE AT THE TIMES OF INSPECTION.

SUBMITTALS

SB-1 SUBMITTALS
1. SUBMIT SHOP DRAWINGS AND OTHER ITEMS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. WRITTEN PERMISSION MUST BE OBTAINED FROM SYKES CONSULTING, INC. PRIOR TO THE REPRODUCTIVE USE OF STRUCTURAL DRAWINGS IN ANY FASHION FOR SHOP DRAWINGS. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. IN THE CONTRACT DOCUMENTS.
2. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED.
3. COMPLETE STRUCTURAL SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM-OF-RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A STRUCTURAL / PROFESSIONAL REGISTERED IN THE STATE OF GEORGIA AND GET APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO THE SUBMITTAL (SEE SUBMITTAL REQUIREMENTS) AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

SB-2 SHOP DRAWING LIST
THE CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THIS LIST SHALL BE UPDATED, REVISED, AND KEPT CURRENT AS THE JOB PROGRESSES. THE SUBMITTAL LIST SHALL BE ORGANIZED AS SHOWN BELOW:
1. SHOP DRAWINGS.
2. MANUFACTURER'S LITERATURE FOR PRODUCTS, ASSEMBLIES, AND HARDWARE
3. PRODUCT CERTIFICATION, MILL CERTIFICATES, AND AFFIDAVITS
4. DESIGN CALCULATIONS

SB-3 SUBMITTAL PACKAGES
AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
A. CONCRETE MIX DESIGN(S). (1)
B. CONSTRUCTION JOINT LOCATIONS IN STRUCTURAL FLOORS, WALLS, AND SLABS-ON-GRADE.
C. EMBEDDED ITEMS OR ITEMS ATTACHED (PLATES, BOLTS, ANGLES, ETC.) TO THE STRUCTURAL FRAME INCLUDING BUILDING CLADDING ATTACHMENTS. (2)
D. EXTERIOR WALL SYSTEM. (2)
E. FORMWORK, SHORING, AND BACKSHORING. (1)(2)(3)
F. LIGHT GAGE METAL (COLD FORMED STEEL) THAT IS LOAD BEARING OR USED TO SUPPORT EXTERIOR CLADDING. (1)(3)
G. METAL DECKING SHOP DRAWINGS.
H. MECHANICAL, ELECTRICAL, PLUMBING OPENINGS IN FLAT SLABS.
I. PENETRATIONS IN BEAMS COLUMNS AND JOISTS.
J. REINFORCING STEEL SHOP DRAWINGS.
K. STRUCTURAL STEEL SHOP AND ERECTION DRAWINGS. (1)
L. STRUCTURAL STEEL CONNECTION CALCULATIONS. (3) NOTE: CONNECTION CALCULATIONS TO BE SUBMITTED ALONG WITH STRUCTURAL STEEL SUBMITTAL
M. STRUCTURAL STEEL BUILDING ERECTION / BRACING DRAWINGS AND ERECTION TOWER / SHORING DRAWINGS. (1)(3)
N. STEEL JOIST AND JOIST GIRDER SHOP DRAWINGS. (1)(3)
O. SURVEY OF STRUCTURAL STEEL ERECTION. (1)
P. EDGE OF SLAB PLAN INDICATING EDGE OF SLAB DIMENSIONS, DEPTHS AND LOCATIONS OF DEPRESSIONS, LOCATIONS AND THICKNESSES OF TOPPING SLABS. EDGE OF SLAB PLAN TO BE CREATED INDEPENDENT OF DESIGN TEAM CAD FILES AND COORDINATED WITH ALL DISCIPLINES.
Q. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.

SB-4 SUBMITTAL DESIGNATION NOTES
(1) ITEMS SHALL HAVE SHOP DRAWINGS BEARING THE SIGNED AND DATED SEAL OF A LICENSED STRUCTURAL / PROFESSIONAL IN ***GEORGIA***.
(2) SUBMIT TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED.
(3) SUBMIT DESIGN CALCULATIONS BEARING THE SIGNED AND DATED SEAL OF A LICENSED STRUCTURAL / PROFESSIONAL IN ***GEORGIA***.

DRAWING INTERPRETATION

DI-1 DRAWING ABBREVIATIONS
THE FOLLOWING ABBREVIATIONS ARE USED ON THE STRUCTURAL DRAWINGS:

@	- AT	LLBB	- LONG LEG BACK TO BACK
&	- AND	LB (S)	- POUND (S)
Ø	- ROUND, DIAMETER	Ld	- DEVELOPMENT LENGTH
AR	- ANCHOR ROD	LL(S)H	- LONG LEG (SIDE) HORIZONTAL
AHU	- AIR HANDLING UNIT	LL(S)V	- LONG LEG (SIDE) VERTICAL
ALT.	- ALTERNATE	LWC	- LIGHTWEIGHT CONCRETE
ANCH.	- ANCHORS	MAS.	- MASONRY
APPROX.	- APPROXIMATE	MAT'L	- MATERIAL
ARCH.	- ARCHITECTURAL	MAX.	- MAXIMUM
ARCHL.	- ARCHITECTURAL	MC	- MOMENT CONNECTION
BLDG.	- BUILDING	MECH.	- MECHANICAL
BM (S)	- BEAM (S)	MEZZ.	- MEZZINANE
B.O.	- BOTTOM OF	MFR.	- MANUFACTURE (R)
BOT.	- BOTTOM	MIN.	- MINIMUM
BRDG.	- BRIDGING	MTL.	- METAL
BRG	- BEARING	MISC.	- MISCELLANEOUS
BTWN.	- BETWEEN	NIC	- NOT IN CONTRACT
C.	- CHANNEL	NO. #	- NUMBER
CANT.	- CANTILEVER	NS	- NEAR SIDE
CIP	- CAST IN PLACE CONCRETE	NTS	- NOT TO SCALE
C.J.	- CONTROL JOINT	NWC	- NORMAL WEIGHT CONCRETE
CJP	- COMPLETE JOINT	NWT	- NORMAL WEIGHT PENETRATION
OC	- ON CENTER		
CL	- CENTER LINE	OPNG (S)	- OPENING (S)
CLR.	- CLEAR	OPP.	- OPPOSITE
CMU	- CONCRETE MASONRY UNIT	OPP. HD.	- OPPOSITE HAND
COL.	- COLUMN	PC	- PRECAST CONCRETE
COMPR.	- COMPRESSIBLE	PCF	- POUNDS PER CUBIC FOOT
CONC.	- CONCRETE	PL.	- PLATE
CONN. (S)	- CONNECTON (S)	P.L.	- PROPERTY LINE
CONST.	- CONSTRUCTION	PLF	- POUNDS PER LINEAR FOOT
CONT.	- CONTINUOUS	PRELIM.	- PRELIMINARY
CORR.	- CORRUGATED	PROP.	- PROPERTY
CTR. (S)	- CENTER (S)	PSF	- POUNDS PER SQUARE FOOT
DB	- BAR DIAMETER	PSI	- POUNDS PER SQUARE INCH
DBA	- DEFORMED BAR ANCHOR	PT	- POST TENSION (ED) (ING)
DBL	- DOUBLE	QTY.	- QUANTITY
DET.	- DETAIL	R	- RISER (STAIR), REACTION
DIA.	- DIAMETER	RAD.	- RADIUS
DWA	- DEFORMED WIRE ANCHOR	REF.	- REFERENCE
DWL (S)	- DOWEL (S)	REINF.	- REINFORCEMENT OR REINFORCING
DWG (S)	- DRAWING (S)		
EA.	- EACH	REM.	- REMAINDER
E.J.	- EXPANSION JOINT	REQD.	- REQUIRED
EL.	- ELEVATION	REV.	- REVISION
ELEV.	- ELEVATION	RTU	- ROOF TOP UNIT
EMBED	- EMBEDMENT	SC	- SLIP CRITICAL SHEAR CONNECTION
ENGR.	- ENGINEER		
EQ.	- EQUAL	SCHED.	- SCHEDULE (D)
EQUIP.	- EQUIPMENT	SECT.	- SECTION
EQUIV.	- EQUIVALENT	SHT.	- SHEET
EW	- EACH WAY	SIM.	- SIMILAR
EXIST.	- EXISTING	SLBB	- SHORT LEG BACK TO BACK
EXP.	- EXPANSION	SP OR SPA	- SPACE (ING)
EXT.	- EXTERIOR	SPEC (S)	- SPECIFICATION (S)
FA.	- FACE	SQ.	- SQUARE
FAB.	- FABRICATE	STD	- STANDARD
F'c	- 28 DAY CONCRETE STRENGTH	STL.	- STEEL
		STR.	- STIRRUP
FD	- FLOOR DRAIN	STRUCT.	- STRUCTURAL
FDN.	- FOUNDATION	SYM.	- SYMMETRICAL
FIN.	- FINISH (ED)	T	- PLATE THICKNESS
FL.	- FLOOR	THRD.	- THREADED
FS	- FAR SIDE	T.O.	- TOP OF
FTG.	- FOOTING	TOC	- TOP OF CONCRETE
FUT.	- FUTURE	TOM	- TOP OF MASONRY
FY	- YIELD STRENGTH	TOS	- TOP OF STEEL
GALV.	- GALVANIZE	TR.	- TREAD (STAIR)
GEN.	- GENERAL	TYP.	- TYPICAL
HGR.	- HANGER	U.N.O.	- UNLESS NOTED OTHERWISE
HORIZ.	- HORIZONTAL	VERT.	- VERTICAL
HSA	- HEADED STUD ANCHOR	W	- WIDE FLANGE
HSS	- HOLLOW STRUCTURAL SHAPE	W/	- WITH
		WGT.	-WEIGHT
INT.	- INTERIOR	WP	- WORK POINT
JT.	- JOINT	W.R.T.	- WITH RESPECT TO
K	- KIPS	WS	- WATERSTOP
KSF	- KIPS PER SQUARE FOOT	WT	- STEEL TEE SECTION
KSI	- KIPS PER SQUARE INCH	WWR	- WELDED WIRE REINFORCEMENT
2L	- DOUBLE ANGLE	X-STR	- EXTRA STRONG
L	- ANGLE	XX-STR	- DOUBLE EXTRA STRONG

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GRADY HEALTH SYSTEM
GRADY HOSPITAL - CORRELL AMBULANCE CANOPY
80 GILMER ST. SE, ATLANTA, GA 30303

PROJECT NO: 25017.00

1	95% CD	09/17/2025
2	CD PACKAGE	10/24/2025

GEORGIA REGISTERED No. SE000356 STRUCTURAL ENGINEER MARTIN KIGUDDE
10/24/2025

SHEET TITLE
STRUCTURAL GENERAL NOTES

SHEET NUMBER
S001

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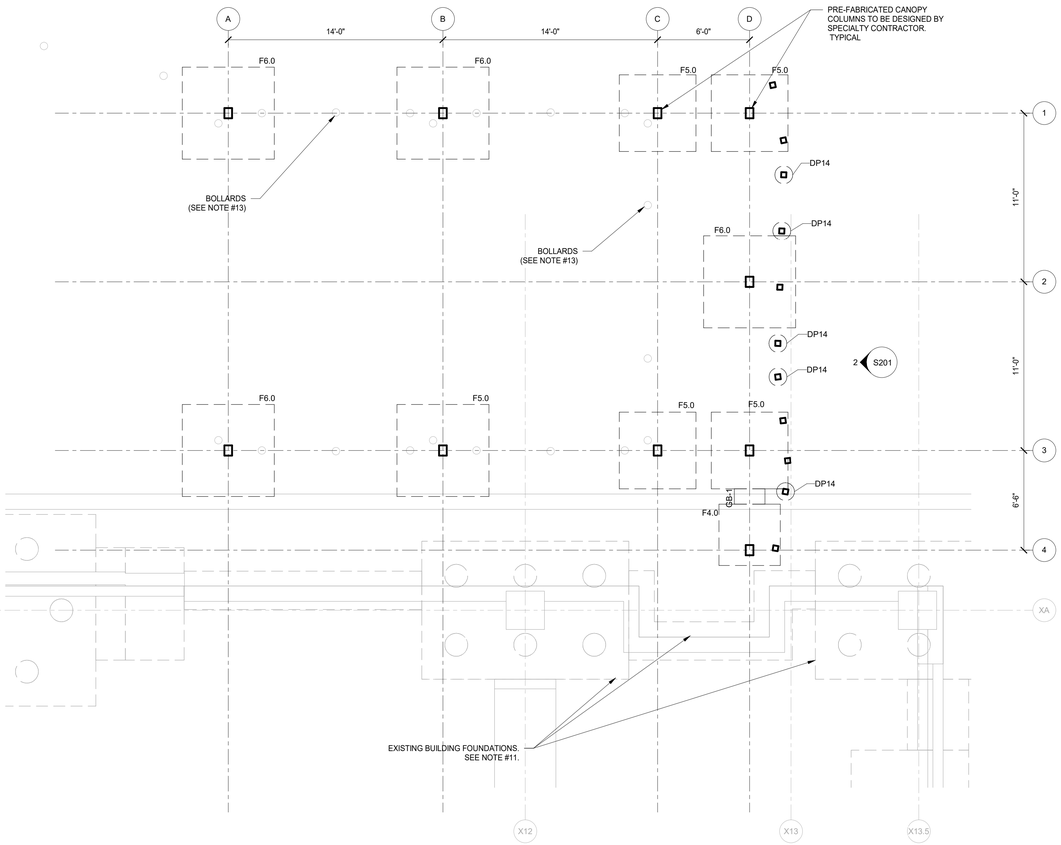
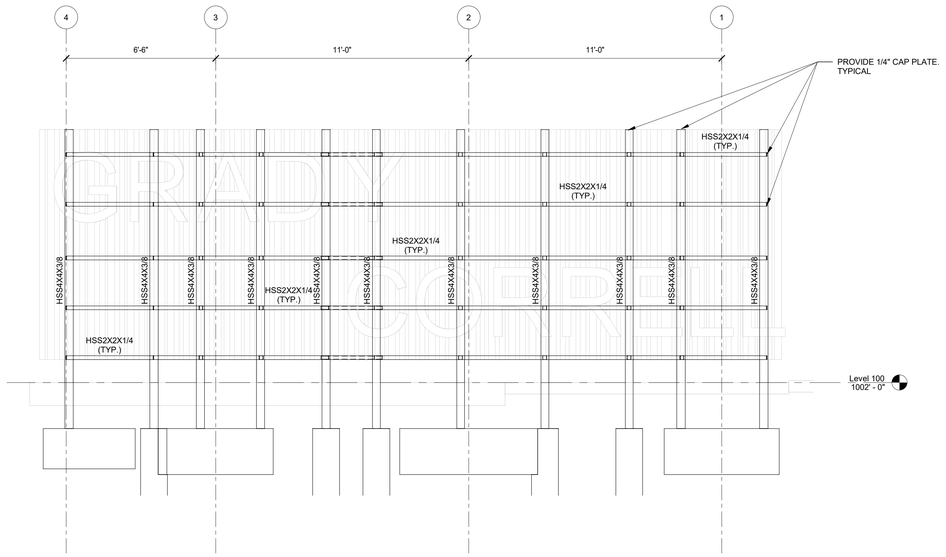


1	FLOOR PLAN AMBULANCE CANOPY	
S201	1/4" = 1'-0"	2/ S201



2	ELEVATION AT DECORATIVE SCREEN WALL	
S201	3/8" = 1'-0"	1/ S201

FOUNDATION NOTES:

1. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES.
2. SEE SHEET S301 AND FOLLOWING FOR TYPICAL FOUNDATION DETAILS NOT REFERENCED ON PLAN.
3. "F#.#" INDICATES FOOTING. SEE SHEET S301 FOR FOOTING SCHEDULE.
4. BASE PLATES AND ANCHOR RODS SHALL BE DESIGNED BY THE PRE-FABRICATED CANOPY ENGINEER.
5. FOOTING DESIGN IS BASED ON PRELIMINARY LOADS RECEIVED FROM PRE-FABRICATED CANOPY MANUFACTURER. FOOTING DESIGN SHALL BE VERIFIED AND REVISED AS NEEDED BY ENGINEER WHEN FINAL LOADS ARE RECEIVED FROM CANOPY MANUFACTURER PRIOR TO CONSTRUCTION.
6. ALL FOOTINGS ARE 2'-0" BELOW THE REFERENCED FINISHED FLOOR ELEVATION. (U.N.O.).
7. ALL FOOTINGS ARE CENTERED ON COLUMNS U.N.O.
8. "DP14" INDCATES 14" DIAMETER PIER FOUNDATION FOR THE SCREEN WALL COLUMNS. SEE DETAIL 5 / S301
9. CONTRACTOR SHALL COORDINATE THE LOCATION OF UNDERGROUND UTILITIES AND FOUNDATIONS PRIOR CONSTRUCTION.
10. "GB-1" INDICATES 24" WIDE X 18" DEEP GRADE BEAM REINFORCED WITH (4)-#6 TOP AND (4)-#6 BOTTOM WITH #4 CLOSED STIRRUPS SPACED AT 12" ON-CENTER. EXTEND TOP AND BOTTOM BARS 2'-0" INTO FOOTING EACH END.
11. CONTRACTOR SHALL FIELD VERIFY AS-BUILT LOCATIONS OF ALL ADJACENT EXISTING BUILDING FOUNDATIONS PRIOR TO CONSTRUCTION OF NEW FOUNDATIONS.
12. ALL STRUCTURAL STEEL EXPONSED TO WEATHER SHALL EITHER BE HOT-DIPPED GALVANIZED OR COATED WITH CORROSION-RESISTANT PAINT.
13. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR BOLLARD LOCATIONS. SEE DETAIL 3 / S301 FOR ADDITIONAL INFORMATION.

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10/24/2025

SHEET TITLE

FRAMING PLANS

SHEET NUMBER

S201

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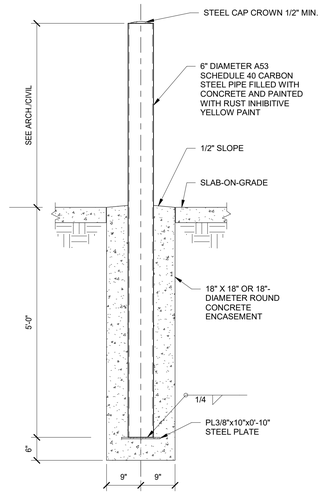
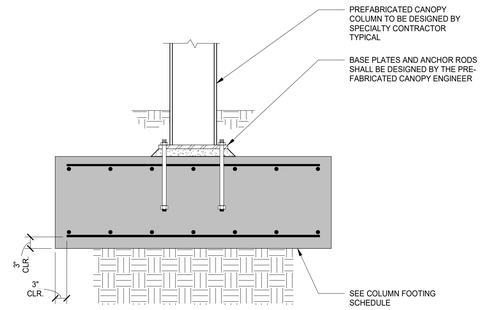


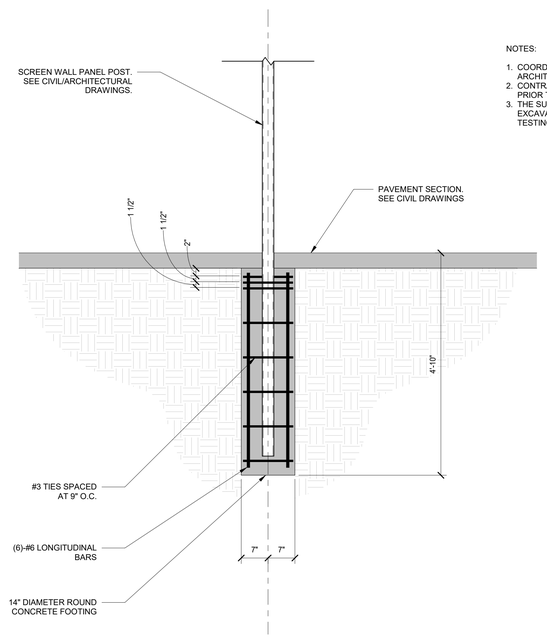
3	TYPICAL DETAIL AT BOLLARD ON-GRADE
S301	3/4" = 1'-0"



2	TYPICAL STEEL COLUMN AT FOOTING
S301	3/4" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE			REINFORCEMENT		REMARKS
	LENGTH	WIDTH	THICKNESS	BOTTOM BARS EACH WAY	TOP BARS EACH WAY	
F4.0	4' - 0"	4' - 0"	1' - 9"	6#5	4#5	
F5.0	5' - 0"	5' - 0"	2' - 0"	6#6	6#5	
F6.0	6' - 0"	6' - 0"	2' - 0"	7#6	7#5	



NOTES:

1. COORDINATE SCREEN WALL POST LOCATIONS WITH CIVIL AND ARCHITECTURAL DRAWINGS.
2. CONTRACTOR TO COORDINATE LOCATIONS OF ALL UNDERGROUND UTILITIES, PRIOR TO EXCAVATION FOR EACH FOUNDATION.
3. THE SUB-GRADE AROUND THE SCREEN WALL POST FOUNDATION EXCAVATIONS SHALL BE PROPERLY COMPACTED VERIFIED BY INDEPENDENT TESTING AGENCY.

5	SCREENWALL FOUNDATION DETAIL
S301	3/4" = 1'-0"

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SHEET TITLE

FOUNDATION DETAILS

SHEET NUMBER

S301

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