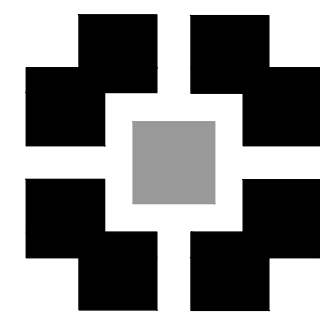


NEW SHELL BUILDING AT

21 LEAKE STREET, BUILDING 1

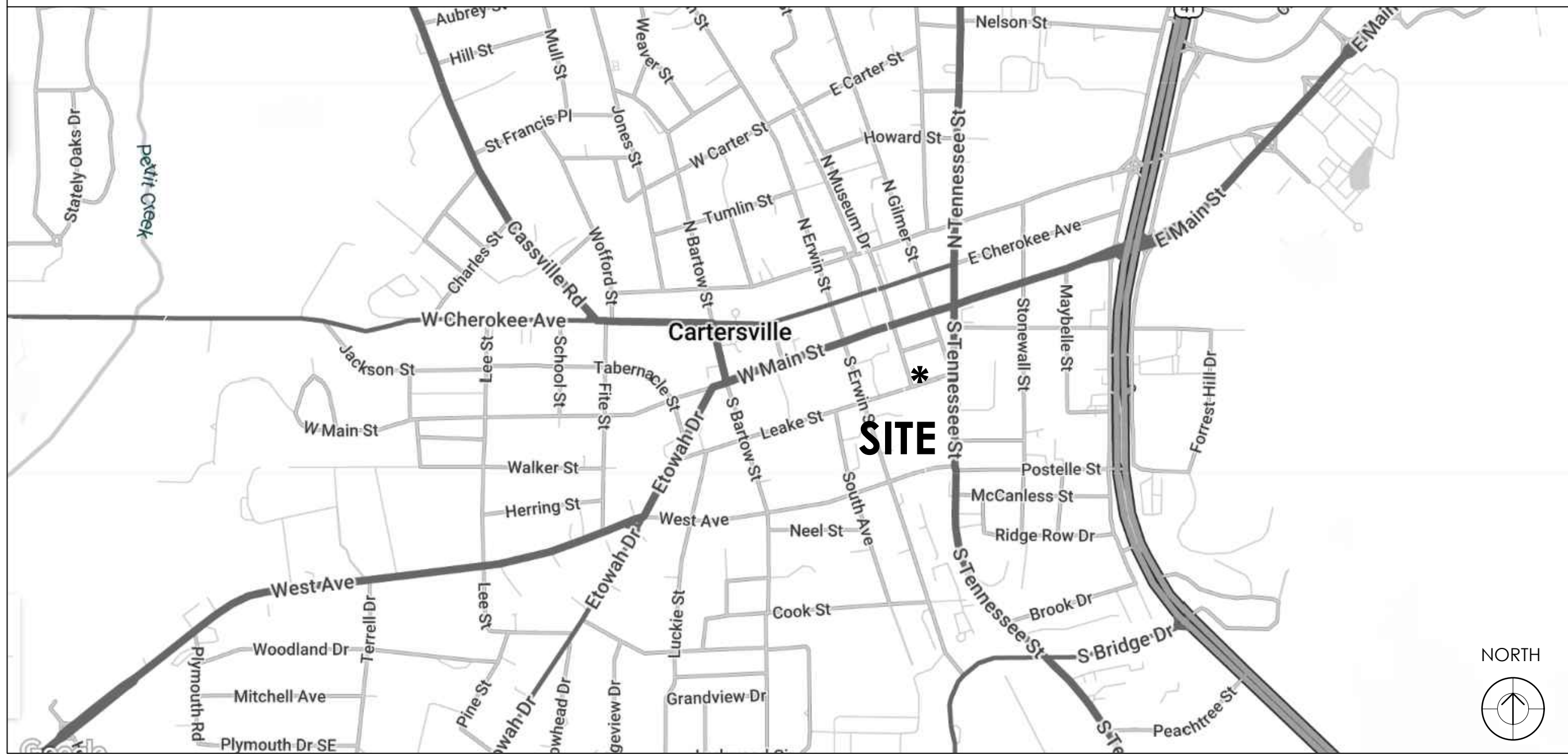
CARTERSVILLE, GEORGIA 30120



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

LOCATION MAP



PROJECT DESCRIPTION

NEW 5,647 GSF WARM, DARK SHELL BUILDING FOR MULTIPLE FUTURE TENANTS. NEW SHELL STRUCTURE CONSISTS OF STEEL FRAME AND COLD FORM EXTERIOR STUD WALLS, WITH BRICK AND PAINTED HARDIE SIDING EXTERIOR FINISH. NEW ELECTRICAL, AND PLUMBING ARE TO BE STUBBED INTO THE BUILDING, MECHANICAL UNITS ARE TO BE SUPPLIED AND ROUGHED-IN, BUT NO DISTRIBUTION PROVIDED AT THIS TIME. NO INTERIOR FINISH IS PROPOSED AT THIS TIME.

INTERIOR FINISH / FIT-UP AND EXTERIOR SIGNAGE TO BE SUBMITTED UNDER SEPARATE PERMIT AT A LATER DATE.

PROJECT DIRECTORY

DEVELOPER / OWNER:

-
-
PHONE: -
CONTACT: -
-

ARCHITECT:

PLACE MAKER DESIGN,
280 INTERSTATE NORTH CIRCLE
SUITE 510
ATLANTA, GEORGIA 30339
PHONE: (404) 549-4499
CONTACT: BRIAN KOLIS
bkolis@placemakerdesign.com

STRUCTURAL ENGINEER:

WILLIAM J. PELTIER AND ASSOCIATES
270 LANGLEY DRIVE
LAWRENCEVILLE, GEORGIA 30046
(770) 963-0654
CONTACT: JACK LANDERS
mj@wjpa.com

MPE ENGINEER:

PROFICIENT ENGINEERING
3150 HOLCOMB BRIDGE ROAD
NORCROSS, GEORGIA 30071
PHONE: (404) 330-9798
CONTACT: BRIAN ARMENTA
brian@peiaf.com

GENERAL PROJECT NOTES

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING AND/OR COMMENCEMENT OF WORK
- ALL MATERIALS INDICATED IN THESE DRAWINGS ARE NEW AND SHALL BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED
- DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH IMMEDIATELY
- CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.

CODE SUMMARY

JURISDICTION/AUTHORITY: CITY OF CARTERSVILLE, GEORGIA

CODE DESIGN STANDARDS:

BUILDING INTL BUILDING CODE, 2018 EDI w/ 2020, 2022, & 2024 GA AMENDMENTS
MECHANICAL INTL MECHANICAL CODE, 2018 EDITION w/ 2020 & 2024 GA AMENDMENTS
PLUMBING INTL PLUMBING CODE, 2018 ED w/ 2020, 2022, 2023, & 2024 GA AMENDMENTS
GAS INTL FUEL GAS CODE, 2018 EDITION w/ 2020 GA AMENDMENTS
ELECTRICAL NATIONAL ELECTRICAL CODE, 2020 ED w 2021 GA AMENDMENTS
FIRE INTL FIRE CODE, 2018 EDITION w/ 2020 GA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3
2012 GWINNETT COUNTY ORDINANCE FOR FIRE PREVENTION & PROTECTION
LIFE SAFETY 2023 OCGA 120-3-3 GEORGIA MINIMUM FIRE SAFETY STANDARDS
NFPA 101 LIFE SAFETY CODE, 2018 EDITION w/ 2020 GA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3
ENERGY INTL ENERGY CONSERVATION CODE, 2015 EDITION
w/ 2020, 2022 & 2023 GA SUPPLEMENTS & AMENDMENTS
ACCESSIBILITY GEORGIA ACCESSIBILITY CODE CHAPTER 120-3-20 (.01-.08) & 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CLIMATE ZONE

CLIMATE ZONE 3A

BUILDING DATA :

CONSTRUCTION TYPE V-B (UNPROTECT) / V(000)
SPRINKLERED/UNSPRINKLERED UNSPRINKLERED
FIRE ALARM NOT REQUIRED
OCCUPANCY CLASSIFICATION FUTURE MIXED OCCUPANCY - ASSEMBLY A-2 (MOST RESTRICTIVE)

ALLOWABLE BUILDING AREA (T506.2) 6,000 SF
TOTAL BUILDING AREA 5,947 GSF
MAX ALLOWABLE HEIGHT (T504.3) 40'
MAX DESIGNED HEIGHT 34'-8"
NUMBER OF STORIES 2

BUILDING OCCUPANCY/LIFE SAFETY

NO OCCUPANCY SOUGHT AT THIS TIME - SHELL ONLY

SUITE 100

ESTIMATED FUTURE OCCUPANT LOAD
3,622 SF @ 1/15 NET (ASSEMBLY - UNCONC) = 241 OCCUPANTS
EGRESS REQUIREMENTS
2 REQUIRED/2 PROVIDED
48.2' EGRESS WIDTH REQUIRED/102" PROVIDED

SUITE 110

ESTIMATED FUTURE OCCUPANT LOAD SUITE 110
1,138 SF @ 1/150 (BUSINESS) = 7 OCCUPANTS
EGRESS REQUIREMENTS
2 REQUIRED/2 PROVIDED
1.4' EGRESS WIDTH REQUIRED/68" PROVIDED

SUITE 120

ESTIMATED FUTURE OCCUPANT LOAD SUITE 120
1,188 SF @ 1/150 (BUSINESS) = 7 OCCUPANTS
EGRESS REQUIREMENTS
2 REQUIRED/2 PROVIDED
1.4' EGRESS WIDTH REQUIRED/68" PROVIDED

SHEET INDEX

#	title
GENERAL	
A0.0	COVER SHEET
ARCHITECTURAL	
A1.1	FLOOR PLAN: GROUND LEVEL
A1.2	FLOOR PLAN: UPPER LEVEL
A1.3	ROOF PLAN
A2.1	ELEVATIONS
A2.2	ELEVATIONS
A3.1	WALL SECTIONS
A3.2	WALL SECTIONS
A3.3	WALL SECTIONS
A3.4	STAIR DETAILS AND UL DETAILS
A4.1	WINDOW AND DOOR SCHEDULES

STRUCTURAL

S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	GENERAL NOTES
S1.1	FOUNDATION PLAN
S1.2	LOW ROOF PLAN
S1.3	2ND FLOOR AND PATIO FRAMING PLAN
S2.1	HIGH ROOF FRAMING PLAN
S3.1	SECTIONS AND DETAILS
S3.2	SECTIONS AND DETAILS
S3.3	SECTIONS AND DETAILS
S3.4	SECTIONS AND DETAILS
S3.5	SECTIONS AND DETAILS
S4.1	SHEARWALL ELEVATIONS
S4.2	SHEARWALL ELEVATIONS
S4.3	TYP. SHEARWALL ELEVATIONS & DETAILS
S4.4	TYPICAL ELEVATIONS AND DETAILS

MECHANICAL

M0.1	GENERAL
M0.2	DETAILS & SCHEDULES
M1.0	FLOOR PLAN

PLUMBING

P0.1	GENERAL
P0.2	SCHEDULES AND DETAILS
P1.1	FLOOR PLAN - DRAINAGE
P1.2	FLOOR PLAN - SUPPLY

ELECTRICAL

E0.1	GENERAL
E0.2	SCHEDULES
E0.3	COMPLIANCE REPORT
E1.1	FLOOR PLAN - POWER
E1.2	FLOOR PLAN - LIGHTING

ABBREVIATIONS

AB	ANCHOR BOLT	EXIST	EXISTING	OPT	OPTION(AL)
AC	AIR CONDITIONING	EXP	EXPOSED/EXPANSION	PCS	PIECES
ACT	ACOUSTIC CEILING TILE	FD	FLOOR DRAIN	PL	PLATE
ADA	AMERICAN DISABILITIES ACT	FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD
ADJ	ADJACENT	FIN	FINISH(ED)	PREFAB	PREFABRICATED
AFF	ABOVE FINISH FLOOR	FF	FINISH FLOOR	PSF	POUNDS PER SQUARE FOOT
AHU	AIR HANDLING UNIT	FRMG	FRAMING	PT	PAINT / PRESSURE TREATED
AL/ALUM	ALUMINUM	GA	GAGE	PTD	PAPER TOWEL DISPENSER/PAINTED
ANG	ANGLE	GALV	GALVANIZED	PTF	POUND TO FIT
APPROX	APPROXIMATE	GYP	GYP SUM	R	RISER/RADIUS
ASPH	ASPHALT	HC	HANDICAPPED	REBAR	REINFORCING BAR
BD	BOARD	HM	HOLLOW METAL	REF	REFERENCE
BOT	BOTTOM	HORIZ	HORIZONTAL	REINF	REINFORCE
CA	CONSTRUCTION ADMINISTRATOR	HP	HORSEPOWER	REQ'D	REQUIRED
CD	CEILING DIFFUSER	HVAC	HEAT, VENTILATION, AIR CONDITIONING	RO	ROUGH OPENING
CJ	CONTROL JOINT	INFO	INFORMATION	ROOFG	ROOFING
CFM	CUBIC FEET PER MINUTE	INSUL	INSULATION	RPM	REVOLUTIONS PER MINUTE
CLG	CEILING	INT	INTERIOR	RTU	ROOFTOP UNIT
CLR	CLEAR	JB	JUNCTION BOX	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	JT	JOINT	SPEC	SPECIFICATION
COL	COLUMN	KW	KILOWATT	SS	STAINLESS STEEL
CONC	CONCRETE	M	MIRROR	STD	STANDARD
CONT	CONTINUOUS	MAS	MASONRY	STL	STEEL
CPT	CARPET	MAX	MAXIMUM	STS	SELF TAPPING SCREWS
CT	CERAMIC TILE	MECH	MECHANICAL	STOR	STORAGE
C/L	CENTER LINE	MED	MEDIUM	TELE	TELEPHONE
CU	CONDENSING UNIT	MFG/R/MFR	MANUFACTURER	TTD	TOILET TISSUE DISPENSER
DBL	DOUBLE	MIN	MINIMUM	TYP	TYPICAL
DIA	DIAMETER	MO	MASONRY OPENING	VB	VINYL BASE/VAPOR BARRIER
DIM	DIMENSION	MTL	METAL	VCT	VINYL COMPOSITION TILE
DN	DOWN	NA	NOT APPLICABLE	VERT	VERTICAL
DS	DOWN SPOUT	NIC	NOT IN CONTRACT	WC	WATER CLOSET
DWG	DRAWING	NO	NUMBER	WD	WOOD
EA	EACH	NOM	NOMINAL	WP	WATERPROOF
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	WWM	WELDED WIRE MESH
ELEC	ELECTRICAL	OC	ON CENTER	W/	WITH
ELEV/EL	ELEVATION	OA	OUTSIDE AIR	WH	WATER HEATER
EQ	EQUAL	OPG	OPENING	WTF	WET TROWEL FINISH
EWC	ELECTRICAL WATER COOLER	OPP	OPPOSITE		

21 LEAKE STREET

BUILDING 01

CARTERSVILLE, GEORGIA 30120



PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

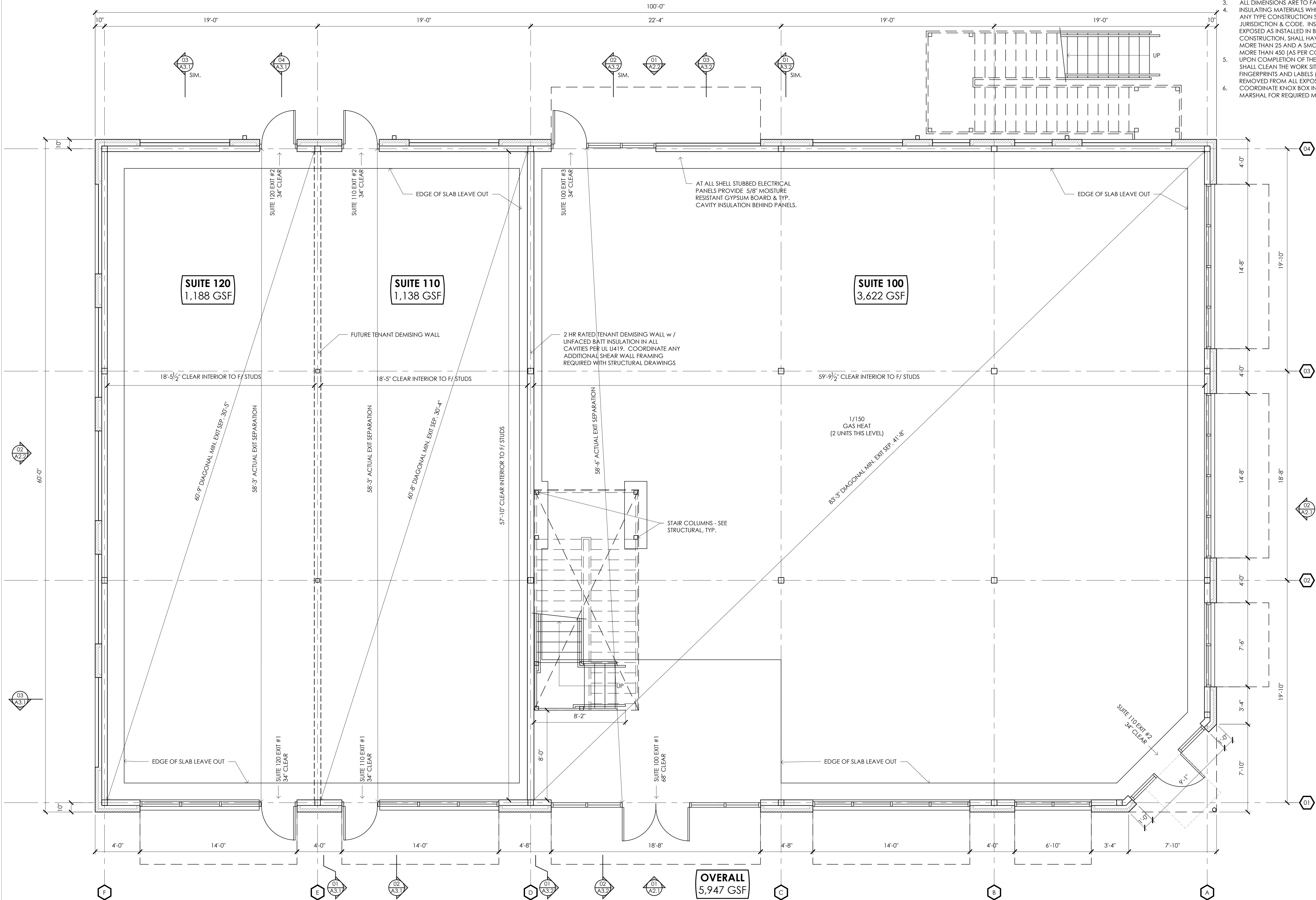
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DRAWN BY	B.K.
CHECKED BY	TMV
PLNG PROJ #	23039

SHEET TITLE

COVER SHEET

SHEET #

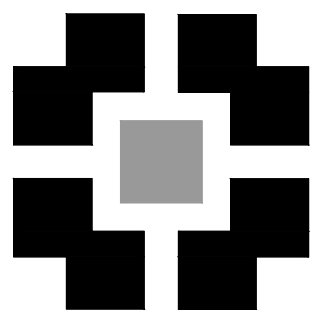
A0.0



01 FLOOR PLAN: GROUND LEVEL
A1.1 SCALE: 1/4" = 1'-0"

GENERAL NOTES

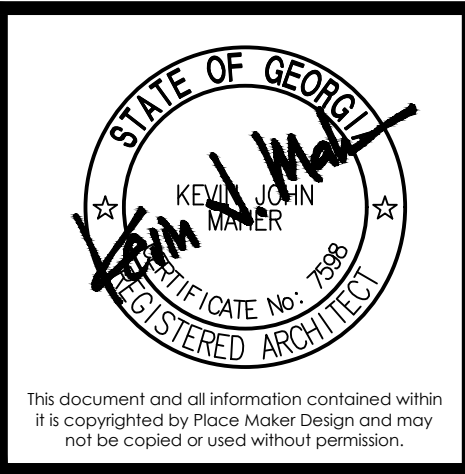
- DO NOT SCALE OFF DRAWINGS.
- GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ALIGNMENTS, AND CENTERLINE NOTATIONS. ANY CONFLICT WITH FIELD CONDITIONS, DRAWINGS AND/OR TRADES SHALL BE REPORTED TO THE DESIGNER IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
- ALL DIMENSIONS ARE TO FACE OF FINISH U.N.O.
- INSULATING MATERIALS WHEN INSTALLED IN BUILDINGS OF ANY TYPE CONSTRUCTION SHALL COMPLY WITH THE LOCAL JURISDICTION & CODE. INSULATING MATERIALS, WHEN EXPOSED AS INSTALLED IN BUILDINGS OF ANY TYPE CONSTRUCTION, SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 (AS PER CODE).
- UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CLEAN THE WORK SITE. DUST, DEBRIS, OILS, STAINS, FINGERPRINTS AND LABELS (EXCEPT UL LABELS) SHALL BE REMOVED FROM ALL EXPOSED SURFACES
- COORDINATE KNOX BOX INSTALLATION WITH LOCAL FIRE MARSHAL FOR REQUIRED MODEL & MOUNTING



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120

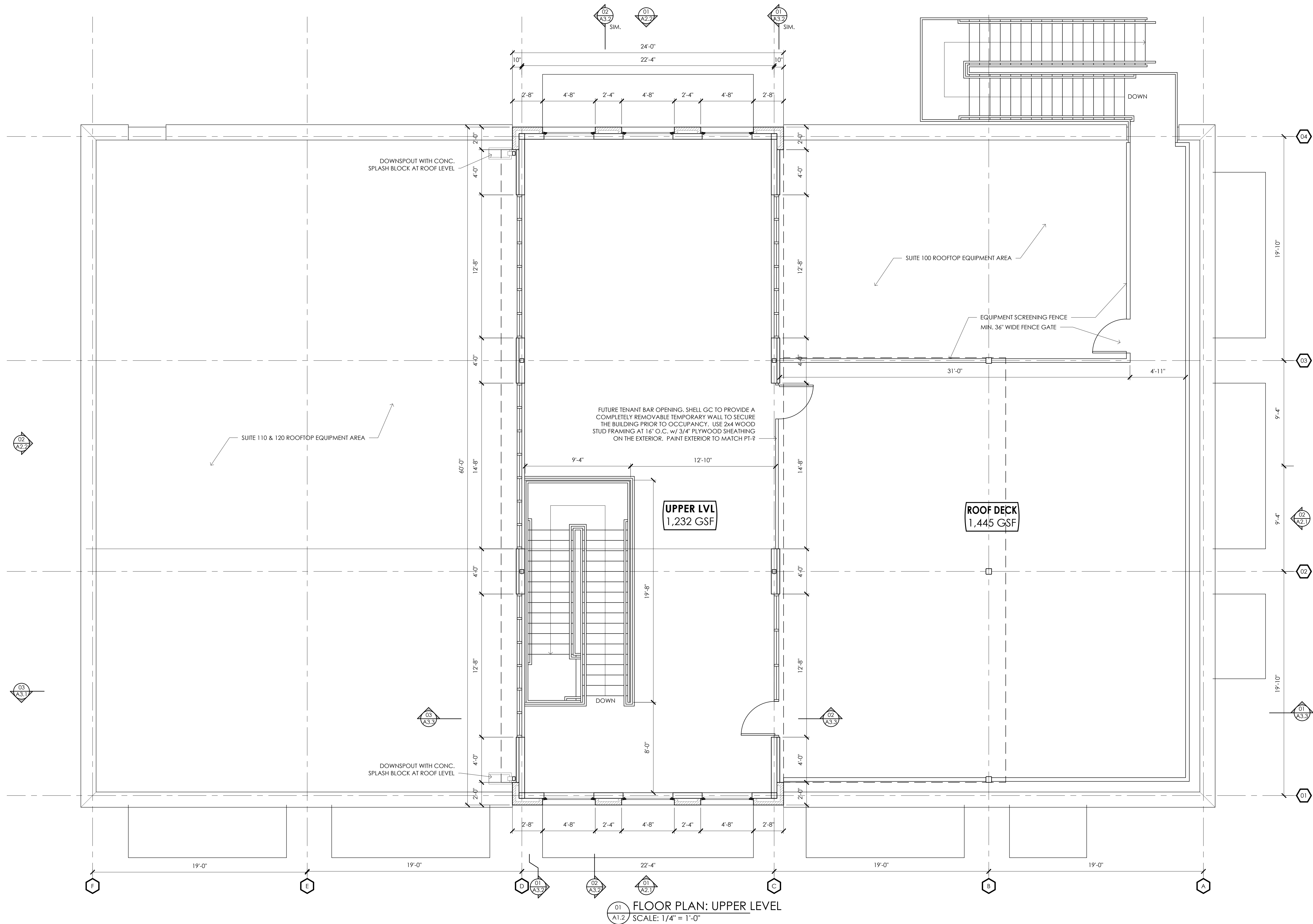


PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
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404.549.4499

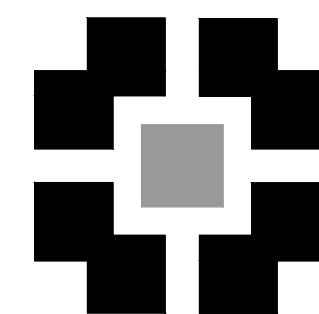
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CHECKED BY	TMV
PWD PROJ #	23039

SHEET TITLE
FLOOR PLAN:
GROUND
LEVEL

SHEET #
A1.1



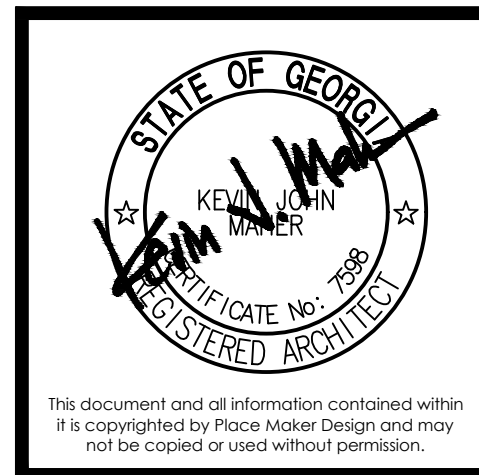
01
A1.2 FLOOR PLAN: UPPER LEVEL
SCALE: 1/4" = 1'-0"



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120

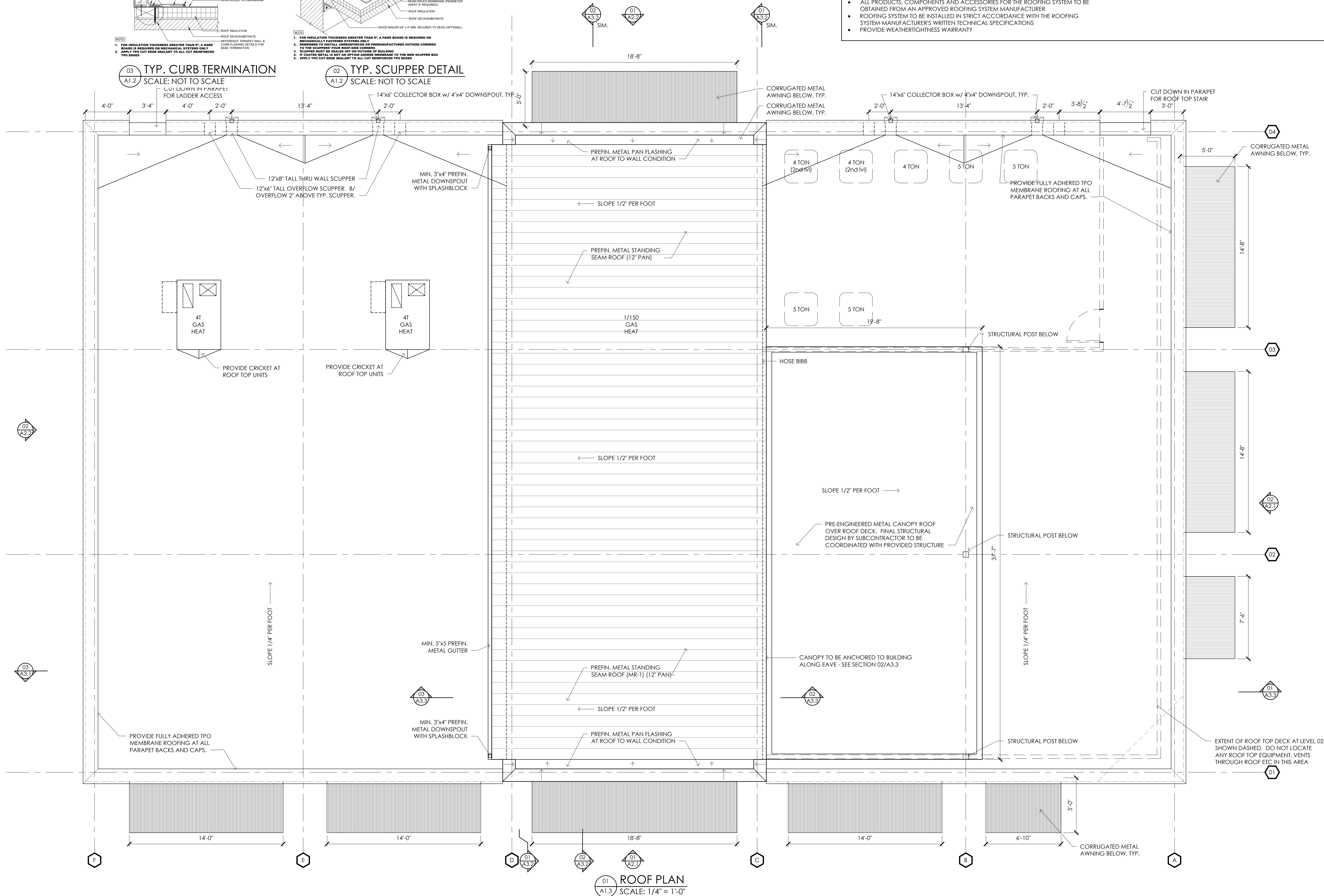
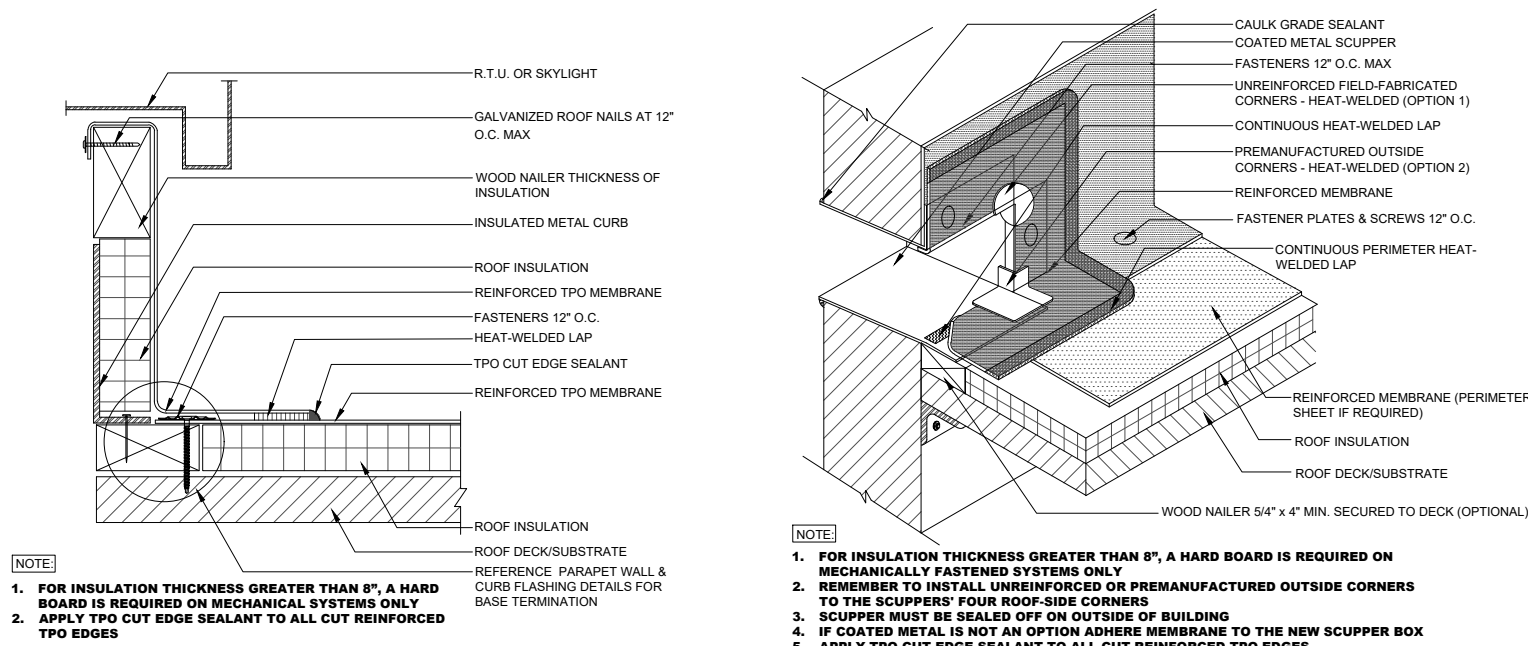


PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
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PWD PROJ #	23039

FLOOR PLAN:
UPPER LEVEL

SHEET #
A1.2

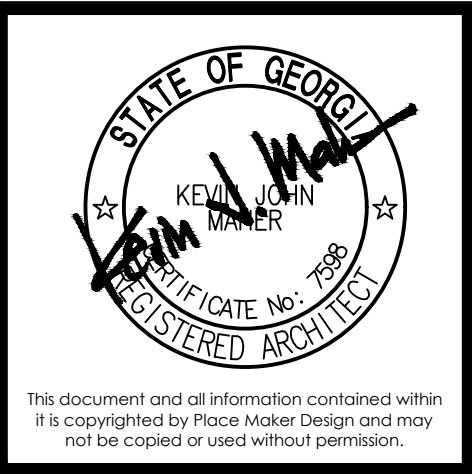


- ### ROOF PLAN GENERAL NOTES
- LOW SLOPE ROOFING SYSTEM TO BE AS FOLLOWS (ITEMS LISTED FROM TOP DOWN)
 - 45 MIL TPO ROOF MEMBRANE (MECHANICALLY ATTACHED)
 - MIN. 4.4" RIGID INSULATION (R=25)
 - EXPOSURE 1 / APA RETAED WOOD ROOF DECKING (SEE STRUCTURAL)
 - PREFINISHED STANDING SEAM METAL ROOFING SYSTEM TO BE AS FOLLOWS (ITEMS LISTED FROM TOP DOWN)
 - PAC-CLAD SNAP CLAD 12" WIDE SMOOTH PANEL w/ HIDDEN CLIP FASTENER, (OR APPROVED EQUAL)
 - HIGH TEMPERATURE ROOF UNDERLAYMENT
 - MIN. 4.4" RIGID INSULATION (R=25)
 - EXPOSURE 1 / APA RATED WOOD ROOF DECKING (SEE STRUCTURAL)
 - PROVIDE MANUFACTURER STANDARD FLASHING AND CLOSURE TRIM AT ALL TRANSITIONS [UNLESS NOTED OTHERWISE]
 - ALL ROOFING SYSTEMS ARE TO BE INSTALLED BY A QUALIFIED CONTRACTOR/INSTALLER, APPROVED BY MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCTS.
 - ALL PRODUCTS, COMPONENTS AND ACCESSORIES FOR THE ROOFING SYSTEM TO BE OBTAINED FROM AN APPROVED ROOFING SYSTEM MANUFACTURER
 - ROOFING SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH THE ROOFING SYSTEM MANUFACTURER'S WRITTEN TECHNICAL SPECIFICATIONS
 - PROVIDE WEATHERTIGHTNESS WARRANTY



REV #	DATE	DESCRIPTION

21 LEAKE STREET
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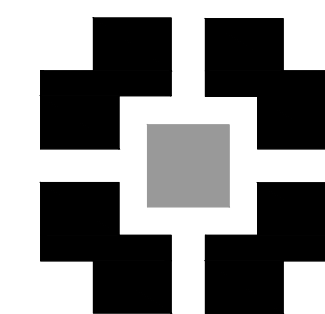


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280 INTERSTATE NORTH CIRCLE SE
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404.549.4499

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CHECKED BY: TMV
PMD PROJ #: 23039

SHEET TITLE: **ROOF PLAN**

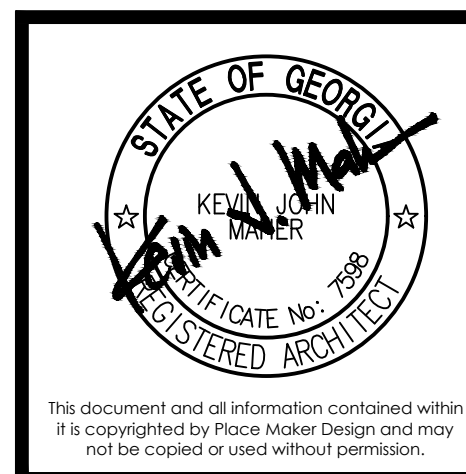
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PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

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CHECKED BY	TMV
PNWD PROJ #	23039

SHEET TITLE
ELEVATIONS

SHEET #
A2.1



01
A2.1
EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

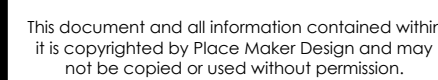


02
A2.1
EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

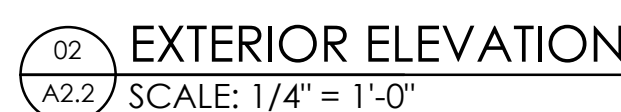
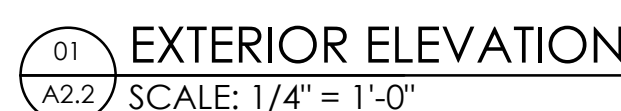
MATERIAL SCHEDULE	
BRK-1	BRICK VENEER - RUNNING BOND CHEROKEE BRICK - OLD MACON - MODULAR SIZE MORTAR: COOSA 'FROSTY'
B-2	BRICK VENEER - ACCENT CHEROKEE BRICK - RANGE 1 FLASH - MODULAR SIZE MORTAR: COOSA 'FROSTY'
SV-1	MANUFACTURED TRIM STONE ECHELON MASONRY - 4" TALL CORDOVA STONE COLOR: LIMESTONE TEXTURE: GROUND FACE MORTAR: COOSA 'FROSTY'
PT-1	PAINT - COLOR TO MATCH PPG PPG1019-3 'LEGENDARY' SATIN
PT-2	PAINT - COLOR TO MATCH PPG PPG1006-7 'METROPOLIS' SEMIGLOSS
PT-3	PAINT - COLOR TO MATCH PPG PPG1060-7 'WARM MAHOGANY' SEMIGLOSS
AW-1	CORRUGATED ROOF PANELS PAC-CLAD 7/8" CORRUGATED PANELS 'ZINC (METALLIC)' MOUNTED ON 1" SQUARE CLEAR ANOD. ALUM. FRAMING
MR-1	METAL ROOFING PAC-CLAD SNAP-CLAD STANDING SEAM METAL PANELS SIZE: 12" WIDE PANELS COLOR: 'ZINC (METALLIC)'
M-1	PREFINISHED METAL TRIM / COPING COLOR TO MATCH PAC-CLAD 'DARK BRONZE'
M-2	PREFINISHED METAL SCUPPERS / DOWNSPOUTS TO MATCH PAC-CLAD 'DARK BRONZE'
SF-1	ALUMINUM STOREFRONT SYSTEM DARK BRONZE ANODIZED ALUMINUM w/ 1" INSULATED GLAZING
ST-1	WOOD STAIN (DOORS) MINWAX 'EARLY AMERICAN' w/ MIN. 2 COATS SEMIGLOSS POLYURETHANE
WDW-1	MARVIN ELEVATE WINDOWS PREFINISHED BRONZE FIBERGLASS EXTERIOR



21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



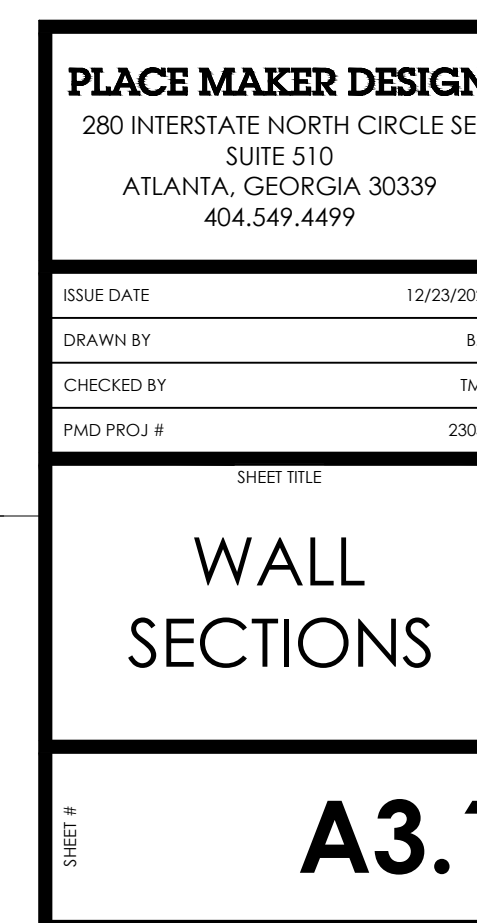
SHEET # **A2.2**



MATERIAL SCHEDULE	
BRK-1	BRICK VENEER - RUNNING BOND CHEROKEE BRICK - OLD MACON - MODULAR SIZE MORTAR: COOSA 'FROSTY'
B-2	BRICK VENEER - ACCENT CHEROKEE BRICK - RANGE 1 FLASH - MODULAR SIZE MORTAR: COOSA 'FROSTY'
SV-1	MANUFACTURED TRIM STONE ECHELON MASONRY - 4" TALL CORDOVA STONE COLOR: LIMESTONE TEXTURE: GROUND FACE MORTAR: COOSA 'FROSTY'
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M-1	PREFINISHED METAL TRIM / COPING COLOR TO MATCH PAC-CLAD 'DARK BRONZE'
M-2	REFINISHED METAL SCUPPERS / DOWNSPOUTS TO MATCH PAC CLAD 'DARK BRONZE'
SF-1	ALUMINUM STOREFRONT SYSTEM DARK BRONZE ANODIZED ALUMINUM w/ 1" INSULATED GLAZING
ST-1	WOOD STAIN [DOORS] MINI-WAX 'EARLY AMERICAN' w/ MIN. 2 COATS SEMGLOSS POLYURETHANE
WDW-1	MARVIN ELEVATE WINDOWS REFINISHED BRONZE FIBERGLASS EXTEIOR



21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



04

FULLY ADHERED 45 MIL TPO ROOF MEMBRANE. WRAP UP AND OVER TOP OF WALL UNDER COPING, TYPICAL

3/4" EXPOSURE 1 SHEATHING

MECH. ATTACHED 45 MIL TPO ROOF

MIN. 4.4" (R-25) RIGID INSUL. ON 5/8" EXP. 1 PLYWOOD ROOF DECK - SEE ROOF PLAN FOR CRICKETS

SLOPE 1/4"/FT

14" RED-L OPEN WEB TRUSSES - SEE STRUCTURAL.

STEEL BEAM - SEE STRUCTURAL.

R-19 UNFACED BATT INSULATION IN ALL STUD CAVITIES, TYP.

INTERIOR FINISH (BY OTHERS)

HEADER - SEE STRUCTURAL

SLAB LEAVEOUT

SHELL G.C. TO INSTALL VAPOR BARRIER WITH MIN. 12" EXTENSION BEYOND RIBBON SLAB FOR CONNECTION TO FUTURE INFILL SLAB VAPOR BARRIER

3'-4"

1'-0"

1'-4"

0'-0" T/ SLAB

CONCRETE SIDEWALK OR GRADE - SEE CIVIL

1'-4"

7'-2"

LINE OF BRICK VENEER BEYOND, RETURN TO FACE OF SHEATHING AT JAMBS, TYP.

PAINTED HOLLOW METAL FRAME AND INSULATED METAL DOOR - SEE DOOR SCHEDULE

SEAL THRESHOLD TO CONCRETE WITH CONT. BEAD OF MASTIC

PROVIDE 1/2" EXPANSION JOINT MATERIAL AT PAVING, TYPICAL

5/8" THK HARDIE ARTISAN V GROOV Siding INSTALLED VERTICALLY

1x8 HARDIEBOARD TRIM (SMOOTH) PROVIDE 1x RETURN TO DOOR AT HEAD

6" METAL STUD FRAMING AT 16" O.C.

1x8 HARDIEBOARD TRIM (SMOOTH)

LAYER OF 1 1/2" THK. CONTINUOUS RIGID INSULATION (MIN R-7.5 CI) OVER 5/8" DENSGLAS GOLD SHEATHING*

1'-0"

7'-4"

5'-6"

3'-3 1/2"

1'-0"

CONT. THRU WALL FLASHING w/ CELL WEEPS AT 16" O.C.

SOLDIER COURSE - PROJECT 3/4"

MODULAR BRICK VENEER OVER FLUID APPLIED WATER RESISTIVE BARRIER w/ BRICK TIES AT 16" O.C. EA. WAY

1'-4"

20'-0" T/ PARAPET

14'-9" T/ STEEL

6'-0"

1'-4"

PREFINISHED METAL COPING WITH CONTINUOUS CLEATS

04

SCALE: 1/2" = 1'-0"

A3.1

03 WALL SECTION
SCALE: 1/2" = 1'-0"

01

FULLY ADHERED 45 MIL TPO ROOF MEMBRANE. WRAP UP AND OVER TOP OF WALL UNDER COPING, TYPICAL

3/4" EXPOSURE 1 SHEATHING

MECH. ATTACHED 45 MIL TPO ROOF

MIN. 4.4" (R-25) RIGID INSUL. ON 5/8" EXP. 1 PLYWOOD ROOF DECK

SLOPE 1/4"/FT

14" RED-L OPEN WEB TRUSSES - SEE STRUCTURAL

STEEL BEAM - SEE STRUCTURAL

INTERIOR FINISH (BY OTHERS)

TUBE STEEL STOREFRONT SUPPORT - SEE STRUCTURAL

WOOD NAILER AT HEAD AND JAMBS FOR STOREFRONT ATTACHMENT

PREFINISHED METAL COPING WITH CONTINUOUS CLEATS

20'-0" T/ PARAPET

MODULAR BRICK VENEER OVER FLUID APPLIED WATER RESISTIVE BARRIER w/ BRICK TIES AT 16" O.C. EA. WAY

PROVIDE 5/8" APA RATED SHEATHING AT ALL SIGNAGE AREAS IN LIEU OF DENSGLASS, TYPICAL

14'-0" T/ STEEL

6" METAL STUD FRAMING AT 16" O.C.

CONT. THRU WALL FLASHING w/ CELL WEEPS AT 16" O.C.

PAINTED STEEL "C" CHANNEL WITH BOXED ENDS

1'-3"

CORRUGATED PREFINI. METAL AWNING w/ 1" ALUM. TUBE FRAMING

2'-1"

10'-8" T/ STOREFRONT

ALUMINUM STOREFRONT SYSTEM w/ 1" INSUL. GLAZING

LINE OF BRICK VENEER BEYOND, RETURN TO FACE OF SHEATHING AT JAMBS, TYP.

STOREFRONT SILL FLASHING SET IN CONT. BEAD OF MASTIC

3"

HEADER COURSE SOLID BRICK SILL w/ 3/4" PROJECTION, SLOPE TOP TO SHED WATER

2'-0"

PROVIDE 1/2" EXPANSION JOINT MATERIAL AT PAVING, TYPICAL

0'-0" T/ SLAB

CONCRETE SIDEWALK OR GRADE - SEE CIVIL

1'-0"

3'-10"

SLAB LEAVEOUT

HELL G.C. TO INSTALL VAPOR BARRIER WITH MIN. 12" EXTENSION BEYOND RIBBON SLAB FOR CONNECTION TO FUTURE INFILL SLAB VAPOR BARRIER

02

WALL SECTION

A3.1 SCALE: 1/2" = 1'-0"

01

FULLY ADHERED 45 MIL TPO ROOF MEMBRANE. WRAP UP AND OVER TOP OF WALL UNDER COPING, TYPICAL

3/4" EXPOSURE 1 SHEATHING

MECH. ATTACHED 45 MIL TPO ROOF

MIN. 4" (R-25) RIGID INSUL. ON 5/8" EXP. 1 PLYWOOD ROOF DECK

SLOPE 1/4"/FT

14" RED-L OPEN WEB TRUSSES - SEE STRUCTURAL.

STEEL BEAM - SEE STRUCTURAL.

R-19 UNFACED BATT INSULATION IN ALL STUD CAVITIES, TYP.

INTERIOR FINISH (BY OTHERS)

PREFINISHED METAL COPING WITH CONTINUOUS CLEATS

20'-0" T/ PARAPET

1'-4"

1'-4"

2'-0"

BRICK MEDALLION - SEE DETAIL 04/A3.2 FOR TYP.

16'-0" T/ STEEL

LAYER OF 1 1/2" THK. CONTINUOUS RIGID INSULATION (MIN R-7.5 c.i.) OVER 5/8" DENSGLAS GOLD SHEATHING*

12'-0"

6" METAL STUD FRAMING AT 16" O.C.

MODULAR BRICK VENEER OVER FLUID APPLIED WATER RESISTIVE BARRIER w/ BRICK TIES AT 16" O.C. EA. WAY

CONT. THRU WALL FLASHING w/ CELL WEEPS AT 16" O.C. GROUT CAVITY SOLID BELOW.

PROVIDE 1/2" EXPANSION JOINT MATERIAL AT PAVING, TYPICAL

0'-0" T/ SLAB

CONCRETE SIDEWALK OR GRADE - SEE CIVIL

SLAB LEAVEOUT

SHELL G.C. TO INSTALL VAPOR BARRIER WITH MIN. 12" EXTENSION BEYOND RIBBON SLAB FOR CONNECTION TO FUTURE INFILL SLAB VAPOR BARRIER

3'-10"

1'-0"

1'-0"

WALL SECTION

SCALE: 1/2" = 1'-0"

01

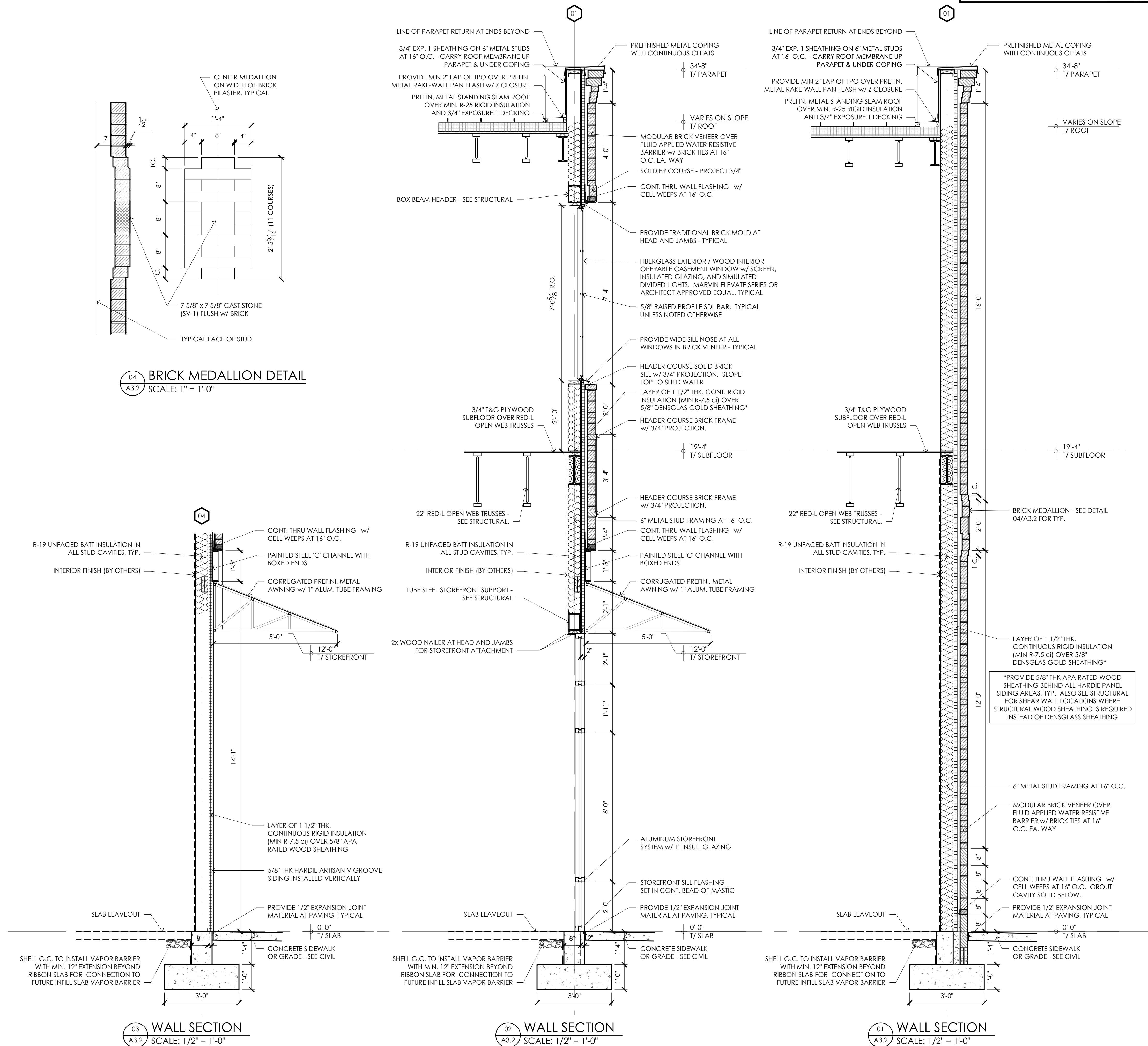
A3.1

REV #	DATE	DESCRIPTION



ISSUE DATE	12/23/2024
DRAWN BY	B.J.K.
CHECKED BY	TMV
PNAD PROJ #	22039

NOTE: DETAILS SHOW MIN. STUD AND
BLOCKING LOCATIONS. ADDITIONAL STUDS
MAY BE REQUIRED FOR BLOCKING AND
PROPER FINISH ATTACHMENT, ETC.

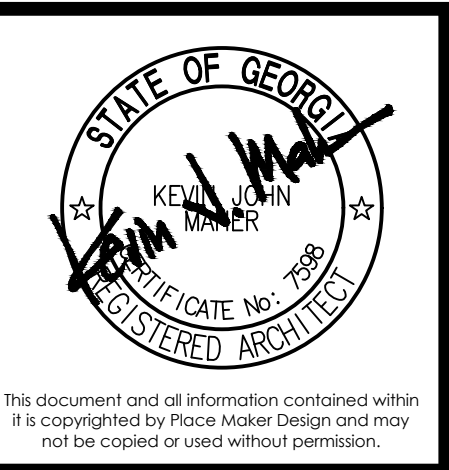


NOTE: DETAILS SHOW MIN. STUD AND
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PROPER FINISH ATTACHMENT, ETC.



REV #	DATE	DESCRIPTION

21 LEAKE STREET
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CARTERSVILLE, GEORGIA 30120



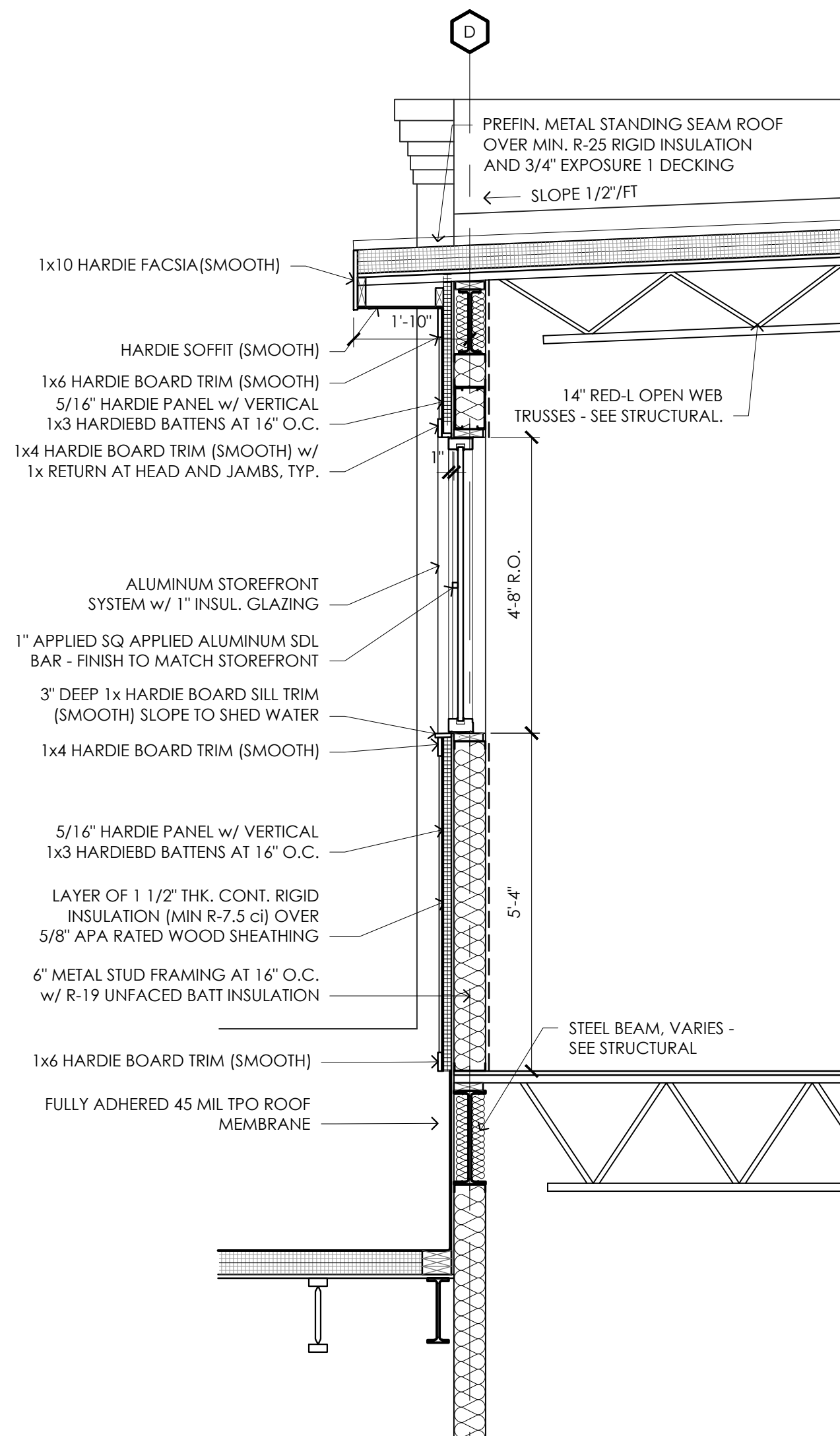
PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

ISSUE DATE	12/23/2024
DRAWN BY	B.J.K.
CHECKED BY	T.M.V.
PMO PROJ. #	22039

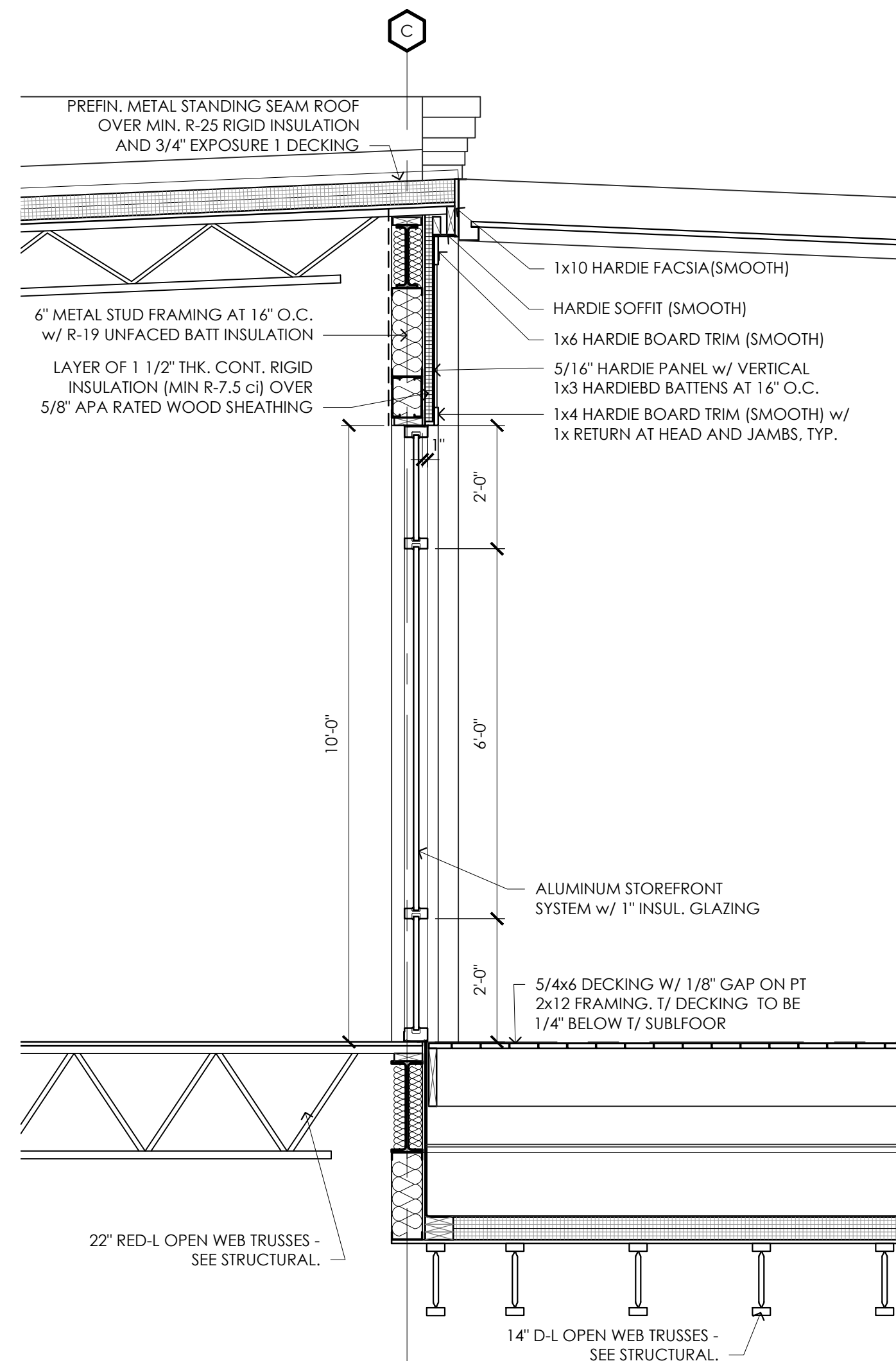
SHEET TITLE

WALL
SECTIONS

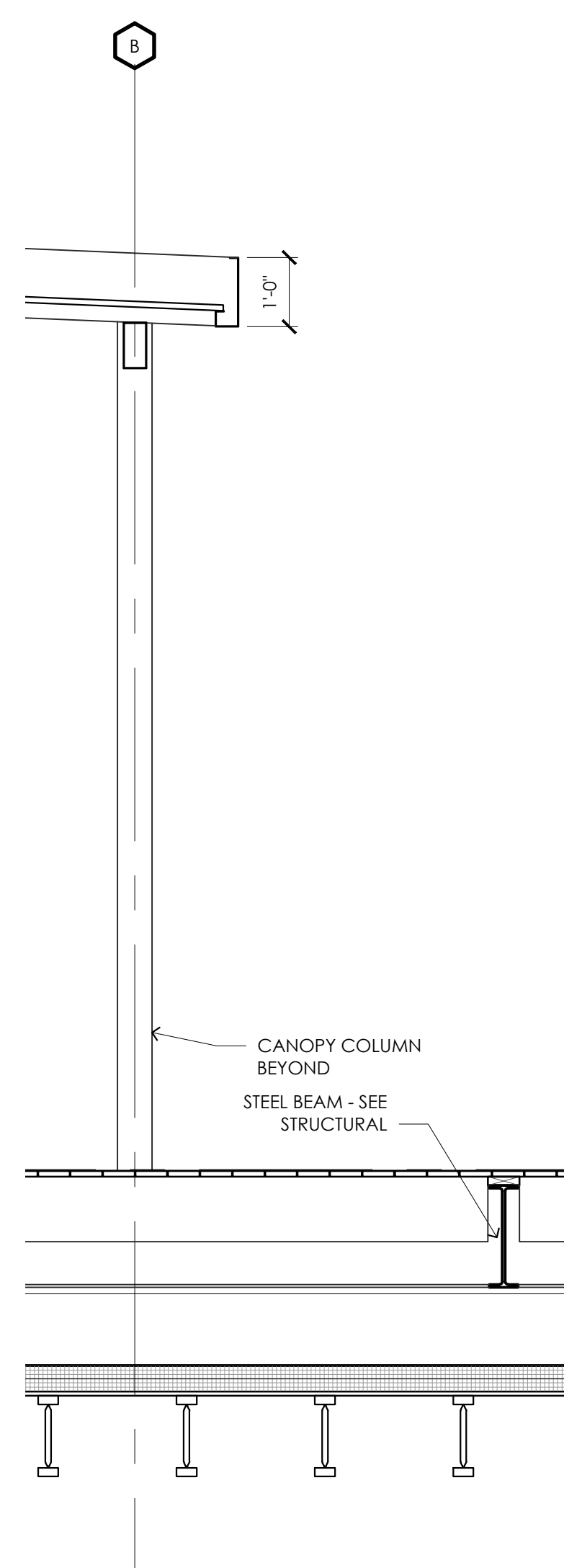
A3.3



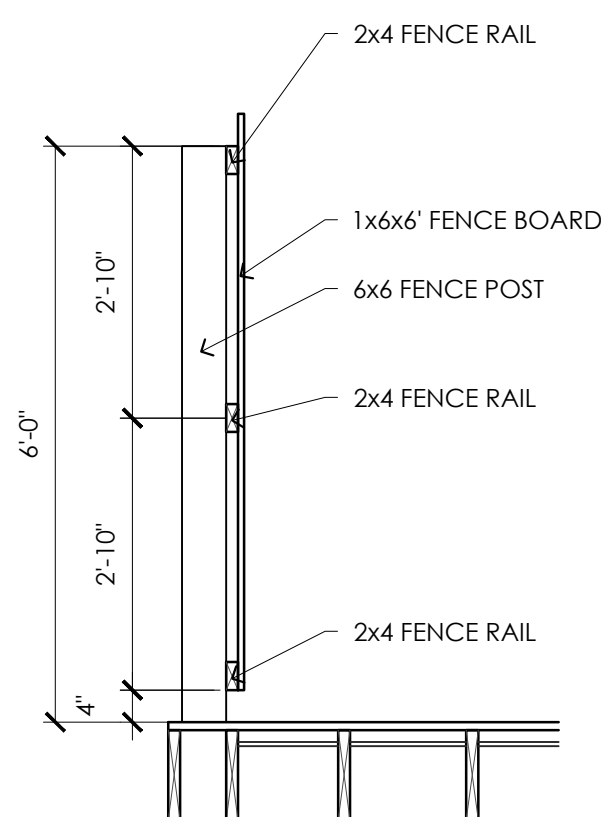
03
A3.2 WALL SECTION
SCALE: 1/2" = 1'-0"



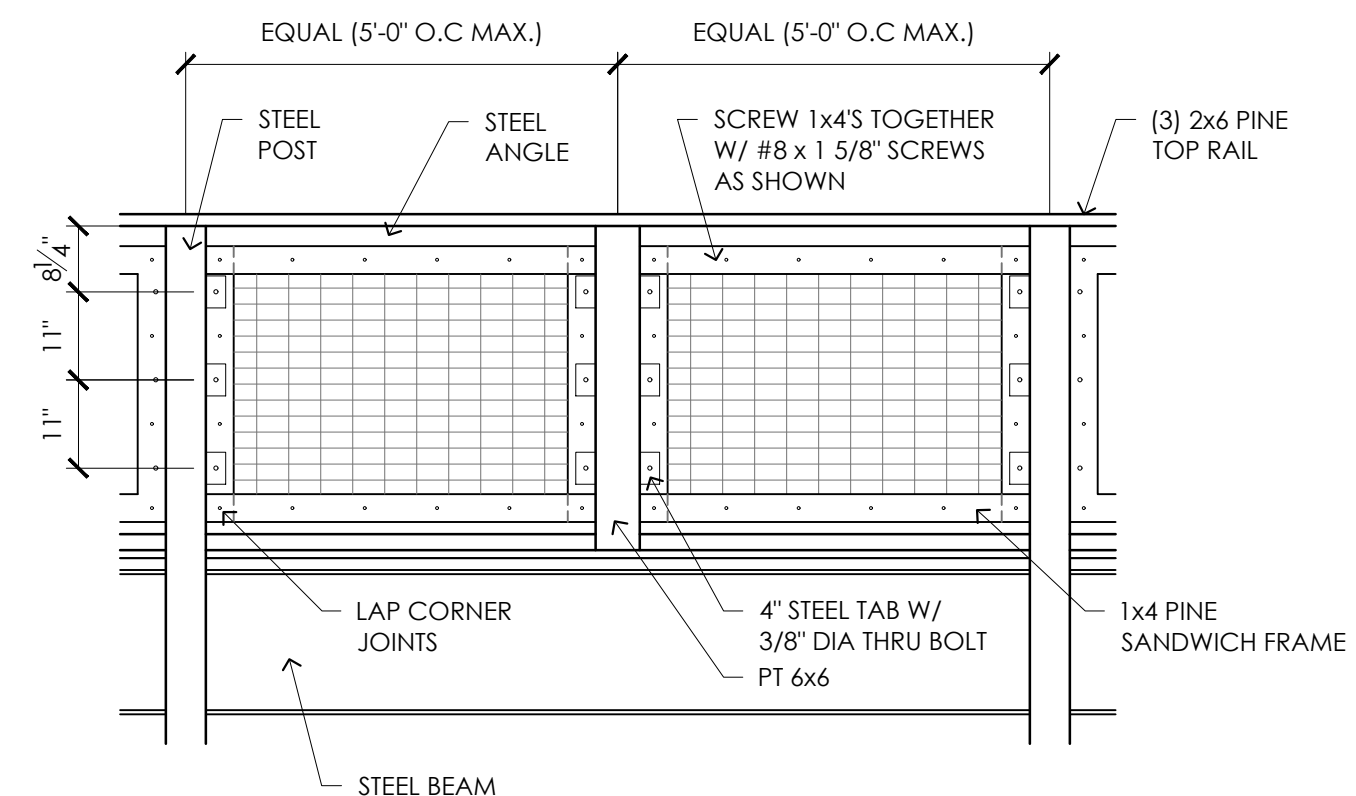
02
A3.3 WALL SECTION
SCALE: 1/2" = 1'-0"



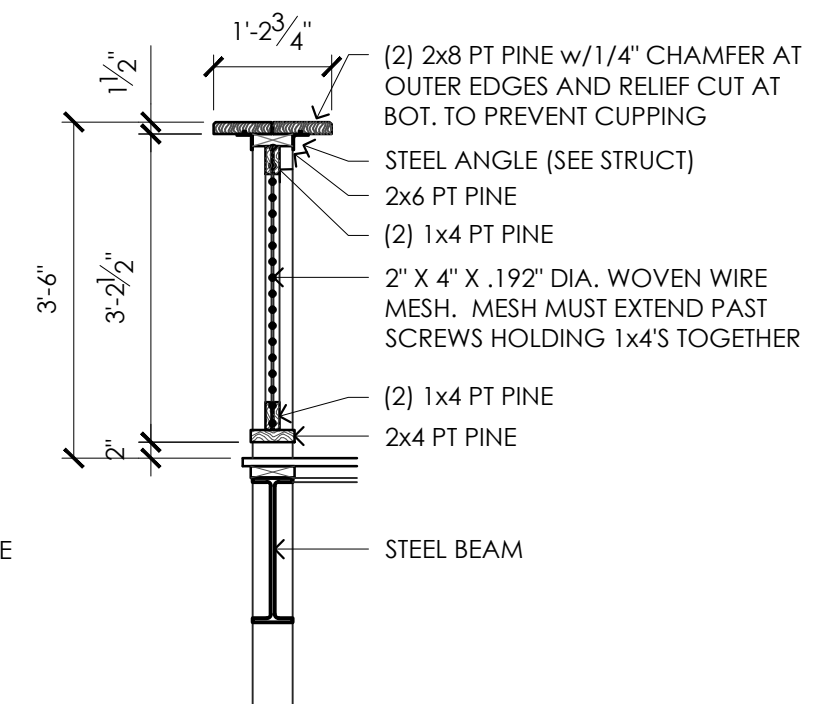
01
A3.3 WALL SECTION
SCALE: 1/2" = 1'-0"



06
A3.3 TYP. FENCE SECTION
SCALE: 1/2" = 1'-0"



05
A3.3 TYP. RAIL ELEVATION
SCALE: 1/2" = 1'-0"

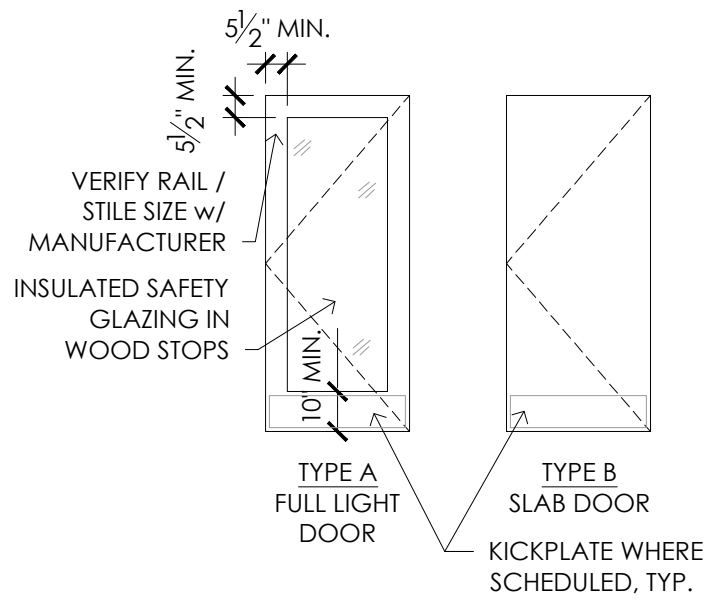


04
A3.3 TYP. RAIL SECTION
SCALE: 1/2" = 1'-0"

DOOR SCHEDULE

#	SIZE	TYPE/LOCATION	DOOR MATERIAL	FINISH	FRAME MATERIAL	FINISH	HDWARE SET	NOTES
01	3'-0"x8'-0"	A / STOREFRONT ENTRY	WOOD & GLASS	ST-1	ALUMINUM	FACTORY	#01	NOTE #1
02	3'-0"x7'-0"	B/ REAR ENTRY	INSUL. STEEL	PT-2	HOLLOW METAL	PT-2	#02	
03	PR 3'-0"x8'-0"	A / STOREFRONT ENTRY (PAIR)	WOOD & GLASS	ST-1	ALUMINUM	FACTORY	#03	NOTE #1
04	3'-0"x8'-0"	A / STOREFRONT ENTRY (CORNER)	WOOD & GLASS	ST-1	ALUMINUM	FACTORY	#04	NOTE #1
05	3'-0"x8'-0"	A / STOREFRONT ENTRY (REAR)	WOOD & GLASS	ST-1	ALUMINUM	FACTORY	#05	NOTE #1
06	3'-0"x8'-0"	A / STOREFRONT ENTRY (ROOF)	WOOD & GLASS	ST-1	ALUMINUM	FACTORY	#06	NOTES #1, 2
07	3'-0" X7'-0"	B/ TEMP EGRESS	STEEL	PT-2	HOLLOW METAL	PT-2	#07	NOTE #3

DOOR TYPES



DOOR NOTES

- DOOR SPECIFIC NOTES**
- ALL STOREFRONT DOORS TO BE FULL LIGHT EXTERIOR GRADE WOOD DOORS WITH INSULATED SAFETY GLAZING. THE MANUFACTURER'S MINIMUM STANDARD TOP RAIL AND STILE WIDTHS, AND A NOMINAL 10" TALL BOTTOM RAIL. DOOR SPECIES TO BE WHITE OAK (SELECT) OR MAHOGANY (SELECT) AND STAINED / SEALED ALL SIX SIDES.
 - ROOF TOP ACCESS DOOR TO BE IN-SWING DOOR AND SHALL HAVE INTERIOR OF DOOR LABELED WITH THE FOLLOWING TEXT 'THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS' TO ALLOW FOR A SECOND MEANS OF EGRESS FROM THE ROOFTOP DECK AREA.
 - TEMPORARY EGRESS DOOR LOCATED IN TEMPORARY INFILL WALL.
- GENERAL NOTES APPLICABLE TO ALL DOORS**
- ALL LATCHING DOORS TO HAVE LEVER TYPE HARDWARE.
 - IF DOOR HAS BOTH A CLOSER AND A LATCH PROVIDE 12" CLEARANCE ON 'PUSH' SIDE AND 18" ON 'PULL' SIDE OF DOOR BETWEEN LEADING DOOR EDGE AND ADJACENT WALL SURFACE.
 - THRESHOLDS AT DOORWAYS ARE NOT TO EXCEED 1/2" IN HEIGHT.
 - DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING.
 - VERIFY HARDWARE FINISH, KEYING AND LOCKING REQUIREMENTS WITH LANDLORD'S REPRESENTATIVE.
 - ALL DOORS TO MEET ADA REQUIREMENTS FOR PUSH/PULL FORCE REQUIREMENTS

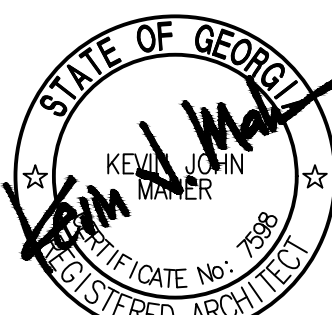
DOOR HARDWARE SCHEDULE

#	QTY	ITEM	MANUFACTURER	MODEL #	FINISH
01	2 PR 1 SET	4.5"x4.5" NRP HINGES PUSH / PULL HARDWARE	IVES IVES	58B1-HW-NRP 8200/8302-8-4X16	F-BLK 631 (BLK)
	1 SET	OVERHEAD CLOSER DEADBOLT WEATHERSTRIPPING DOOR SWEEP THRESHOLD	LCN SCHLAGE PEMKO PEMKO PEMKO	1260 SERIES B560 3038SPS 3158SPN 1665BSP	693 (BLK) 622 (BLK) BLACK BLACK BLACK
02	1 1/2 PR	4.5"x4.5" NRP HINGES ENTRANCE LOCKSET	BEST SCHLAGE	FB8179-NRP AL 53PD SAT	US26D PRIME US26D
	1 SET	DOOR VIEWER AT 58" AFF KICKPLATE SET WEATHERSTRIPPING THRESHOLD	IVES IVES PEMKO PEMKO	698 8400 10"x38" 2815 1665A	- - - -
03	4 PR 2 SET	4.5"x4.5" NRP HINGES PUSH / PULL HARDWARE	IVES TBD	58B1-HW-NRP -	F-BLK -
	1 SET	OVERHEAD CLOSER DEADBOLT FLUSHBOLTS (TOP & BOT) WEATHERSTRIPPING incl/ MEETING STILE DOOR SWEEP THRESHOLD	LCN SCHLAGE IVES PEMKO PEMKO	1260 SERIES B560 FB358BLK 3038SPS / MS 3158SPN 1665BSP	693 (BLK) 622 (BLK) BLACK BLACK BLACK
04	2 PR 1 SET	4.5"x4.5" NRP HINGES PUSH / PULL HARDWARE	IVES TBD	58B1-HW-NRP -	F-BLK -
	1 SET	OVERHEAD CLOSER DEADBOLT WEATHERSTRIPPING DOOR SWEEP THRESHOLD	LCN SCHLAGE PEMKO PEMKO PEMKO	1260 SERIES B560 3038SPS 3158SPN 1665BSP	693 (BLK) 622 (BLK) BLACK BLACK BLACK
05	2 PR 1 SET	4.5"x4.5" NRP HINGES PUSH / PULL HARDWARE	IVES TBD	58B1-HW-NRP -	F-BLK -
	1 SET	OVERHEAD CLOSER DEADBOLT WEATHERSTRIPPING DOOR SWEEP THRESHOLD	LCN SCHLAGE PEMKO PEMKO PEMKO	1260 SERIES B560 3038SPS 3158SPN 1665BSP	693 (BLK) 622 (BLK) BLACK BLACK BLACK
06	2 PR 1 SET	4.5"x4.5" HINGES PUSH / PULL HARDWARE	IVES TBD	58B1-HW -	F-BLK -
	1 SET	OVERHEAD CLOSER DEADBOLT WEATHERSTRIPPING DOOR SWEEP THRESHOLD	LCN SCHLAGE PEMKO PEMKO PEMKO	1260 SERIES B560 3038SPS 3158SPN 1665BSP	693 (BLK) 622 (BLK) BLACK BLACK BLACK
07	1 1/2 PR	4.5"x4.5" NRP HINGES ENTRANCE LOCKSET	BEST SCHLAGE	FB8179-NRP AL 53PD SAT	US26D US26D
	1 SET	SET WEATHERSTRIPPING THRESHOLD	PEMKO PEMKO	2815 1665A	- -



REV #	DATE	DESCRIPTION

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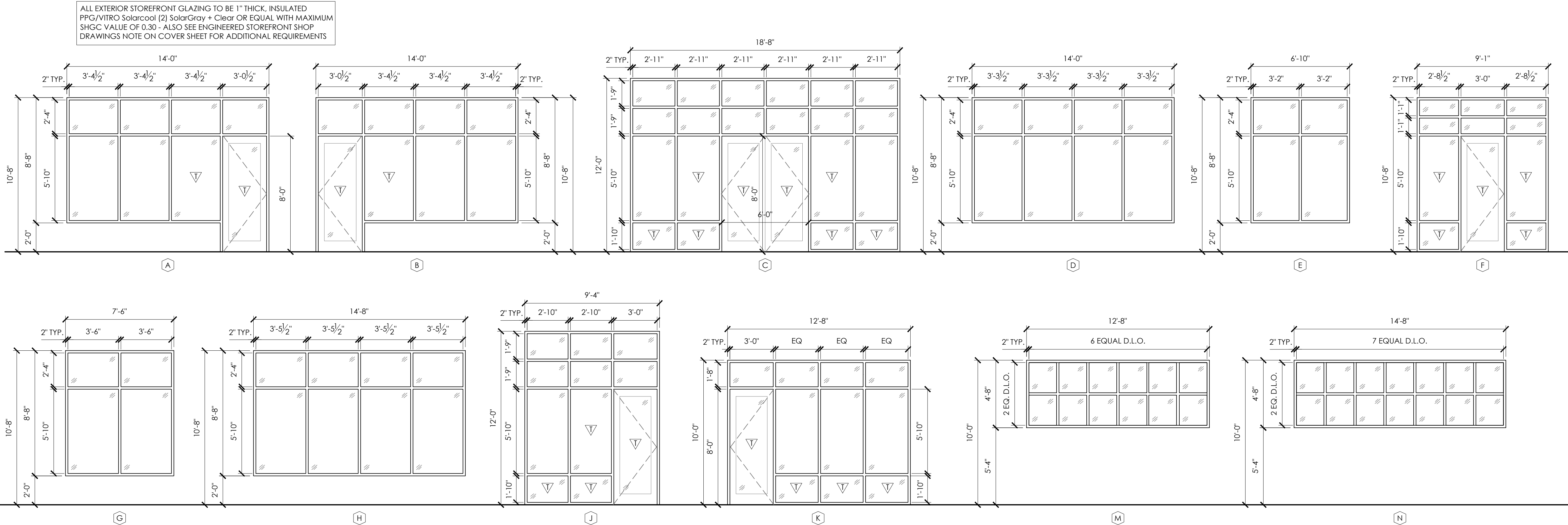
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ISSUE DATE	12/23/2024
DRAWN BY	8JK
CHECKED BY	TMV
PWD PROJ #	23039

SHEET TITLE
**WINDOW
AND DOOR
SCHEDULES**

SHEET #
A4.1



01 STOREFRONT WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"

DESIGN:

BUILDING CODE: INTERNATIONAL BUILDING CODE 2018 (IBC) W/GEORGIA STATE AMENDMENTS

WIND:

V_{LL} = 108 MPH
V_{ASD} = 82 MPH
EXPOSURE CATEGORY B
COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2018 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.

MIN ALLOWABLE DESIGN PRESSURE = 30 PSF (WALLS, 100 SQ FT, NON-END ZONE)

INTERNAL PRESSURE COEFFICIENT (GCp) = +0.18, -0.18

N-S SHEAR = 32.2 KIP
E-W SHEAR = 19.0 KIP

SEISMIC:
RISK CATEGORY II
IE = 1.0 IP = 1.0
S_{MS} = 0.302 S_{PS} = 0.154
SITE CLASS = D
SEISMIC DESIGN CATEGORY = B
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SEISMIC RESISTING SYSTEM:

LIGHT GAUGE FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

R_s = 3.25 n = 3 Cd = 4

N-S SHEAR = 9.6 KIP
E-W SHEAR = 14.3 KIP

SNOW:

GROUND SNOW LOAD = 5 PSF
Is = 1
SNOW EXPOSURE FACTOR Ce = 1.0 SNOW THERMAL FACTOR Ct = 1.0

SHEET INDEX:

S0.1	GENERAL NOTES	S3.3	SECTIONS & DETAILS
S0.2	GENERAL NOTES	S3.4	SECTIONS & DETAILS
S0.3	GENERAL NOTES	S3.5	SECTIONS & DETAILS
S1.1	FOUNDATION PLAN	S4.1	SHEARWALL ELEVATIONS
S1.2	LOW ROOF FRAMING PLAN	S4.2	SHEARWALL ELEVATIONS
S1.3	2ND FLOOR & PATIO FRAMING PLAN	S4.3	TYPICAL ELEVATIONS & DETAILS
S2.1	HIGH ROOF FRAMING PLAN	S4.4	TYPICAL ELEVATIONS & DETAILS
S3.1	SECTIONS & DETAILS		
S3.2	SECTIONS & DETAILS		

MISCELLANEOUS:

- THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS. THIS INCLUDES THESE DRAWINGS, FIELD SKETCHES AND RESPONSES TO REQUESTS FOR INFORMATION (RFIs), UNLESS OTHERWISE INDICATED.
- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.
- NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY BRACING AND SHORING THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACTORS CONSTRUCTION METHODS AND/OR SEQUENCES. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURAL FRAMING. APPLIED CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF ANY STRUCTURAL BUILDING ELEMENT.
- THE CONTRACTORS CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION LIFECYCLE.
- DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD. REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- WHERE A SECTION OR DETAIL IS CUT ON THE PLAN, IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS OR ENGINEERS PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTORS MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.
- CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IN WRITING OF ALL CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
- 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 AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

- SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.
- PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. OPENINGS 1'-4" IN WIDTH OR LENGTH (AND LESS) ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ALL REQUIRED OPENINGS. ALL MECHANICAL OPENING LOCATIONS, UNIT OPERATING WEIGHTS, AND SIZES SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

SUBMITTALS:

- STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS AS INDICATED IN THE PROJECT DOCUMENTS.
- CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES TO ARCHITECT AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.
- ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE (ICC-ES) REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.
- REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) WINDOW SYSTEMS, CANOPY SYSTEMS, AND METAL STAIRS. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
- ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR.
- REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT PERMITTED.

FOUNDATIONS:

- FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 15 KSF FOR INDIVIDUAL COLUMN FOOTINGS AND 15 KSF FOR CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE LIVE AND DEAD LOAD.
- THE SITE SHALL BE PREPARED IN ACCORDANCE WITH CIVIL DRAWINGS AND PROJECT SPECIFICATIONS. A GEOTECHNICAL INVESTIGATION HAS NOT BEEN PERFORMED ON THIS SITE PRIOR TO THE ISSUANCE OF THESE DRAWINGS. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ENGINEER.
- THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARING. HOWEVER, IF ADEQUATE BEARING CAPACITY IS NONEXISTENT AT THESE ESTIMATED ELEVATIONS, THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE THE PRESCRIBED SAFE BEARING CAPACITY EXISTS (AS RECOMMENDED BY A QUALIFIED GEOTECHNICAL ENGINEER).
- FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
- IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY CUT AND FILL REQUIREMENTS SPECIFIED BY CIVIL SHALL BE AS INSTALLED PURSUANT TO THE GEOTECHNICAL REPORT NOTED IN ITEM 2 OF THIS SECTION.
- FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOWED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF AN INDEPENDENT TESTING AGENCY PRIOR TO CASTING OF THE CONCRETE.
- ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-6" BELOW FINAL GRADE FOR FROST PROTECTION.
- NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING. PROVIDE SHORING AND PROTECTION FOR EXCAVATION BANKS AS NECESSARY TO PRESERVE SAFETY AND PREVENT CAVING.
- ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- BACKFILL AGAINST WALLS SHALL BE PLACED IN 8" LIFTS AND SHALL BE DEPOSITED EVENLY AGAINST EACH SIDE OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED. BACKFILL SHALL NOT BE PLACED AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM SLABS/FOUNDATION FOR SUPPORT UNTIL SUCH SLABS HAVE ATTAINED MINIMUM SUFFICIENT BRACING AND SHORING FOR ALL WORK DURING THE CONSTRUCTION PROCESS. RETAINING WALLS ARE NOT DESIGNED TO CANTILEVER AT ANY TIME UNLESS EXPLICITLY NOTED ON DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL CONDITIONS PER CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- COLUMN FOOTINGS AND WALL FOOTINGS SHALL BE POURED MONOLITHIC WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
- THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

CONCRETE:

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14.
- CEMENT USED SHALL BE TYPE I OR II CONFORMING TO ASTM C-150. CONCRETE SHALL DEVELOP A MINIMUM 28 DAY STRENGTH AND DENSITY AS FOLLOWS:

	STRENGTH (PSI)	DENSITY (PCF)
FOOTINGS	3000	145 - 150
4" SLAB ON GRADE	3000	145 - 150
STAIR LANDINGS AND TREADS	4000	145 - 150
- AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:

	1" COARSE AGGREGATE
FOOTINGS, SLAB-ON-GRADE	3/4" COARSE AGGREGATE
STAIR LANDINGS AND TREADS	
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. RESULTS OF ALL COMPRESSIVE STRENGTH TEST SHALL BE MADE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.
- NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.
- MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:

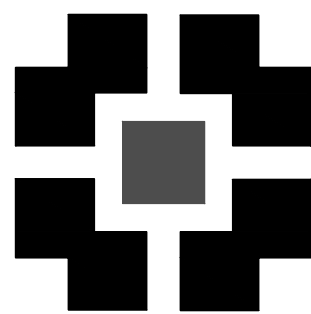
	3/4" INCHES
A. #1 BARS AND SMALLER	3 INCHES
B. UNFORMED SURFACE IN CONTACT WITH THE GROUND:	2 INCHES EXTERIOR
C. BASEMENT WALLS:	3/4 INCHES INTERIOR
D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER	2 INCHES
#5 BARS AND SMALLER	1 1/2 INCHES
E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER	
BEAMS, GIRDERS AND COLUMNS:	1 1/2 INCHES
SLABS, WALLS, AND JOISTS:	3/4 INCHES
- SLAB-ON-GRADE SHALL BE SAW CUT NO MORE THAN 12 HOURS AFTER CONCRETE HAS BEEN FINISHED. CONTRACTOR TO SUBMIT LAYOUT AND CONSTRUCTION SCHEDULE (SOFT-CUT INTERNATIONAL OR SIM).
- PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-14.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS.
- PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
A. NO MATERIAL HARMFUL TO CONCRETE (SUCH AS, BUT NOT LIMITED TO, ALUMINUM) IS PERMITTED.
B. NO EMBEDMENT OR PENETRATION WHICH IMPAIRS THE STRUCTURAL STRENGTH OR INTEGRITY IS PERMITTED.
C. CONDUITS AND PIPES SHALL NOT HAVE A DIAMETER THAT EXCEEDS 1/3 THE OVERALL THICKNESS OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE EMBEDDED.
D. MINIMUM CENTER TO CENTER SPACING SHALL NOT BE CLOSER THAN 3 DIAMETERS OR WIDTHS.
E. PLACEMENT SHALL OCCUR ABOVE BOTTOM LAYER OF REINFORCEMENT AND BELOW TOP LAYER OF REINFORCEMENT AND SHALL NOT CAUSE REINFORCEMENT TO BE CUT, BENT OR DISPLACED IN ANY MANNER.
F. PLACEMENT SHALL MAINTAIN A MINIMUM CLEARANCE FROM REINFORCEMENT OF 3 REINFORCING BAR DIAMETERS OR 3/4" FROM WELDED WIRE FABRIC REINFORCEMENT.
G. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW SLAB ON GRADE.
- UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN SLABS ON GRADE NOT TO EXCEED 15 FEET ON CENTER IN EACH DIRECTION, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.
- FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
- NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
- REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60.
- REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITION.
- ALL 'CONTINUOUS' REINFORCEMENT SHALL HAVE MINIMUM LAP OF 'B' TYPE (ACI 318-14, SECTION 25.5.2) AT SPLICES UNLESS NOTED OTHERWISE.
- PROVIDE REINFORCING CHAIRS FOR ALL SLAB-ON-GRADE REINFORCING.
- SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW. NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.
- ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI 'MANUAL OF STANDARD PRACTICE' (27TH EDITION).
- WHERE WELDED WIRE FABRIC REINFORCEMENT IS SPECIFIED IN SLABS ON GRADE PLACEMENT SHALL BE 1" BELOW TOP OF SLAB. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.
- SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL AND/OR SPLICES ARE PERMITTED ONLY WHERE SHOWN ON DRAWINGS, WHERE WELDING IS PERMITTED IT SHALL CONFORM TO AWS D14. STRUCTURAL WELDING CODE - REINFORCING STEEL.
- BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.
- WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL:

DESIGN CODE:
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - AISC 360-16

- STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

	ASTM A992 (Fy=50ksi)
STRUCTURAL W-SHAPES	ASTM A36 (Fy=36ksi)
ALL CHANNELS, ANGLES, PLATES, ETC. (UNO)	ASTM A500 (GRADE C (Fy=50ksi))
STRUCTURAL TUBES	ASTM A501 (Fy=36ksi)
STEEL PIPE	ASTM F554 (Fy=55ksi)
ANCHOR RODS	ASTM A325
HIGH STRENGTH BOLTS	ASTM A563
HEX NUTS - GRADE A	ASTM A563
WELDING ELECTRODES	E70xx HARDENED STEEL
WASHERS - TYPE I	ASTM F436
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (AISC 2016) EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- THE STEEL STRUCTURE IS A NON-SELF-SUPPORTING STEEL FRAME AND IS DEPENDENT UPON DIAPHRAGM ACTION OF THE METAL ROOF DECK AND ATTACHMENT TO THE MASONRY WALLS AND SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THESE ELEMENTS ARE COMPLETE AND ARE CAPABLE OF PROVIDING THIS SUPPORT.
- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. CONNECTIONS SHOWN ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO FABRICATORS CONNECTION DESIGN ONLY AS THEY ARE DEEMED APPROPRIATE AND ADEQUATE. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC 14TH EDITION 'SPECIFICATIONS FOR STRUCTURAL JOINTS' USING ASTM A325 OR ASTM A490 BOLTS.
- SPLICING OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS.
- WHERE BEAMS INTERSECT AT THE TERMINATING ELEVATION OF A COLUMN, THE BEAM WITH THE GREATEST REACTION SHALL BEAR ON TOP OF THE COLUMN UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE BEAMS INTERSECT AT THE INTERMEDIATE ELEVATION OF A COLUMN, THE FRAMING BEAMS SHALL BE CONNECTED TO THE COLUMNS WITH A WT CONNECTION. FIN PLATE CONNECTIONS ARE NOT PERMITTED.
- CONNECTIONS FOR NON-COMPOSITE BEAMS WHICH CANNOT CONFORM TO AISC TYPICAL CONNECTION DETAILS SHALL BE DETAILED IN ACCORDANCE WITH THE FOLLOWING:
A. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL SUPPORT (AS SIMPLE SPAN) FOR THE SPAN SHOWN ON THE DRAWINGS. (TABLE 3-6, AISC 15TH EDITION)
B. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.
C. WHERE CONNECTIONS SUPPORT BEAMS WHICH ARE SUBJECT TO CONCENTRATED LOADS, SUCH CONCENTRATED LOADS SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING THE CONNECTION.
D. BOLTED CONNECTIONS SHALL BE BEARING TYPE WITH A325 BOLTS. MINIMUM DIAMETER OF ALL BOLTS SHALL BE 3/4" MAX. DIA. 1 1/8". PROVIDE AT LEAST 2 BOLTS PER CONN. TIGHTENED SNUG TIGHT.
E. END CONNECTIONS OF FLOOR MEMBERS SHALL ACCOMMODATE END ROTATIONS OF SIMPLE, UNRESTRAINED BEAMS. FOR THIS PURPOSE, INELASTIC ACTION IN THE CONNECTION IS PERMITTED.
F. COPED OR CUT ENDS OF MEMBERS SHALL BE REINFORCED WHERE REQUIRED TO SUSTAIN THE SPECIFIED REACTIONS.
- TENSILE CONNECTIONS SHALL BE DESIGNED FOR A FORCE RESULTING FROM MULTIPLYING THE GROSS AREA BY 20 KSI.
- FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP.
- STRUCTURAL STEEL CONTRACTOR TO PROVIDE DECK SUPPORT ANGLES AS REQD (L3x3x1/4 MINIMUM UNO). THE CONTINUOUS ANGLE AT THE ROOF PERIMETER SHALL BE SPLICED SUCH THAT THE FULL TENSION FORCE THAT CAN BE DEVELOPED BY THE ANGLE WILL BE TRANSFERRED THROUGHOUT THE SPLICE.
- THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING. PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE STIFFENERS FINISHED TO BEAR UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, ON ALL MEMBERS FRAMING OVER COLUMNS, AT BEAM COLUMN JOINTS (AS REQUIRED BY THE AISC SPECIFICATIONS) AND WHERE SHOWN ON THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND ELEVATIONS OF LOOSE UNTELS.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL INSPECTIONS.
- ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET

BUILDING 01

CARTERSVILLE, GEORGIA 30120



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ISSUE DATE	01/08/2023
DRAWN BY	MUL
CHECKED BY	WJP
PMO PROJ #	23039

SHEET TITLE

GENERAL
NOTES

SHEET #

S0.1

WOOD FRAMING:

1.

ALL WOOD DESIGN AND CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2018) AND RELATED SUPPLEMENTS.
2.

UNLESS NOTED, USE SPRUCE PINE FR (E=1600 KSI MIN) UNO, 19% MAX MOISTURE CONTENT, AS FOLLOWS:

POST, BEAMS & HEADERS

No 2 (SOUTHERN PINE)

LOAD BEARING STUDS (INTERIOR & EXTERIOR)

No 2

NON-LOAD BEARING STUDS (INTERIOR)

STUD GRADE

JOISTS & PURLINS

No 2

PLATES, BLOCKING & SUB-PURLINS

No 2
3.

ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
4.

AT STUD WALL OPENINGS, THE TOTAL NUMBER OF DISPLACED AND/OR CUT STUDS SHALL BE INSTALLED AND ATTACHED TO THE JAMBS, ONE-HALF OF THE TOTAL TO EACH SIDE OF THE OPENING (TOTAL NUMBER INCLUDING JACK AND KING STUDS).
5.

METAL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS SO THAT THE MAXIMUM PUBLISHED CAPACITY IS DEVELOPED.
6.

WHERE NO CONNECTION IS INDICATED ON THE DRAWINGS, ATTACHMENT SHALL BE MADE IN ACCORDANCE TO TABLE 2304.9.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE.
7.

ALL CONNECTORS SHALL BE 690 GALVANIZED STEEL, EXCEPT CONNECTORS IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT OR WOLMANIZED WOOD SHALL BE COATED WITH G185 ZINC COATING.
8.

FURNISH BOLTS AND ANCHOR RODS WITH STANDARD NUT WASHER.
9.

TOE NAILS SHALL BE DRIVEN AT A 30° ANGLE RELATIVE TO PIECE. START NAIL AT ONE-THIRD NAIL LENGTH FROM THE END OF PIECE.
10.

ALL LOAD BEARING STUD WALLS (INTERIOR & EXTERIOR) SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING AT 4'-0" O.C. (MAX) VERTICALLY PRIOR TO APPLYING ANY LOADS (INCLUDING FRAMING FOR FLOORS ABOVE).
11.

WHERE (2)-2x AND (2)-2x + 1/2" PLYWOOD PLATE BEAMS ARE DESIGNATED, SPIKE PLATES TOGETHER WITH 12d NAILS @ 12" O.C., 1" FROM TOP AND 1" FROM BOTTOM OF PLATE.
12.

WHERE (3)-2x AND LARGER BEAMS ARE DESIGNATE, PLATES SHALL BE BOLTED TOGETHER WITH 1/2" BOLTS @ 30" O.C., 1 1/2" FROM TOP AND BOTTOM. BOLTS SHALL HAVE MINIMUM BENDING YIELD (FY) OF 45,000 PSI.
13.

WHERE STUD PACK WOOD COLUMNS ARE DESIGNATED, SPIKE STUDS TOGETHER WITH 16d NAILS @ 12" O.C. (VERTICALLY).
14.

STUD PACK OR SOLID SAWN WOOD COLUMNS SHALL BE CONTINUOUS FROM LOCATION SHOWN TO THE FOUNDATION. BLOCK FLOOR CAVITY SOLID BELOW WOOD COLUMN (WIDTH EQUAL TO WOOD COLUMN) TO ACHIEVE CONTINUITY.
15.

FINGER-JOINTED LUMBER IS PERMISSIBLE AT WALL STUDS ONLY.
16.

STRUCTURAL ELEMENTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER. PENETRATIONS IN FLOOR AND WALL SHEATHING IS PERMITTED PROVIDED THAT 2x BLOCKING IS INSTALLED AT OPENING PERMETER (FOR OPENINGS LARGER THAN 10" IN LENGTH/DIAMETER) AND WALL FRAMING IS NOT INTERRUPTED.
17.

DOUBLE TOP PLATES ((2)-2x) AT ALL WALLS SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE. OFFSET DOUBLE PLATE END JOINTS 24" (MIN).
18.

WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-STRUCTURAL SHEATHING REQUIREMENTS. WHERE ARCHITECTURAL DRAWINGS REQUIRE ADDITIONAL SHEATHING, SUCH SHEATHING SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING.
19.

ANCHOR ALL EXTERIOR, INTERIOR LOAD BEARING AND SHEAR WALLS TO ANCHOR RODS OR EPOXY ANCHORS PER STRUCTURAL DRAWINGS. OTHER WALLS (WALLS NOT ON THICKENED SLABS OR TURNDOWNS) SHALL BE ANCHORED TO SLAB USING POWDER ACTUATED FASTENERS WITH 0.144"Ø AND EMBEDMENT OF 3/4" AT 12" O.C. (MAX).
20.

PROVIDE ONE ROW OF BRIDGING FOR EACH 8'-0" LENGTH OF ROOF FRAMING MEMBERS.

GOLD FORM METAL FRAMING (METAL STUDS):

1.

METAL STUDS SHALL BE FABRICATED AND ERECTED PER 2016 AISI NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
2.

UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS AND EQUAL OR THICKER GAUGE THAN STUDS. TRACKS SHALL BE CONNECTED TO SUPPORTS AT 16" OC MAX.
3.

ALL 43 MIL MATERIAL (AND LESS) SHALL HAVE A MINIMUM YIELD OF 33,000 PSI (UNLESS NOTED OTHERWISE). ALL 54 MIL MATERIAL (AND GREATER) SHALL HAVE A MINIMUM YIELD OF 50,000 PSI (UNLESS NOTED OTHERWISE).
4.

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING:

A. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN MANUFACTURERS PRODUCT DATA.

B. PRODUCT CATALOG WITH SECTION AND MATERIAL PROPERTIES OF ALL MATERIAL.
5.

ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED, GALVANIZED COATING MEETING ASTM A653 G60 AND G955, UNO.
6.

INSTALLATION:

A. TRACKS:

INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS. ALL TRACK BUTT JOINTS SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT WELDED OR SPLICED TOGETHER.

B. WALL STUDS:

SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SHIP-TRACK CONNECTION TO UNDERSIDE OF BEAMS TO ALLOW 1" VERTICAL DEFLECTION OF STEEL BEAM (NOT APPLICABLE IN LOAD BEARING APPLICATIONS). AT LOAD BEARING APPLICATIONS, SHIP-TRACK CONNECTION SHALL ACCOMMODATE A DEFLECTION OF BEAM SPAN DIVIDED BY 240.

C. SUPPLEMENTARY FRAMING:

PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, SERVICE CABSWORK, HEAVY TRIM AND FURNISHINGS, AND SIMILAR WORK REQUIRING ATTACHMENT TO THE WALL OR PARTITION. WHERE TYPE OF SUPPLEMENTARY SUPPORT IS NOT OTHERWISE INDICATED, COMPLY WITH STUD MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.

D. WALL OPENINGS:

OPENINGS LARGER THAN 2 FEET SQUARE TO BE FRAMED WITH A MINIMUM OF DOUBLE STUDS AT EACH JAMB OR FRAME EXCEPT WHERE MORE ARE REQUIRED.

E. ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO SUPPORTING MEMBERS.

7.

ALL SCREWS SHALL BE NON CORROSIVE NO. 12-14 STANDARD SELF DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS STEEL OR COPPER COATED FASTENERS).

8.

ALL SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF 1" UNLESS NOTED OTHERWISE ON DRAWINGS.

9.

ALL SCREWS SHALL BE A MINIMUM OF 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS.

10.

ALL METAL STUD WALLS SHALL HAVE WALL CONTINUOUS WALL BRIDGING @ 3'-6" OC MAXIMUM. CONTINUOUS BRIDGING MAY CONSIST OF 1 1/2" - 33 MIL STRAPS (2 1/2" - 43 MIL AT WALLS USED AS SHEAR WALLS OR WALLS WITH X'S STRAP BRACING). AS AN ALTERNATE TO STRAP BRIDGING, FOR 3 5/8" OR 4" STUDS ONLY, PROVIDE 1 1/2" CRC CHANNEL BRIDGING (80-450-54 AT THE CENTERLINE OF STUDS WITH (2) #8 SCREWS PER ANGLE FLANGE.

11.

CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO THE NUMBER OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF TWO (2) STUDS EACH SIDE.

12.

VOIDS BENEATH WALL TRACK SHALL NOT BE PERMITTED. WHERE UNEVENNESS OR SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK.

13.

MINIMUM TRACK FASTENING INTO CONCRETE SHALL BE 0.145" DIAMETER POWDER ACTUATED FASTENERS AT 16" OC (UNO) WITH 3/4" PENETRATION INTO CONCRETE.

REDBUILT ROOF TRUSSES:

1.

ROOF TRUSSES SHALL BE REDBUILT OPEN WEB TRUSSES DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS SHOWN IN THE CONTRACT DOCUMENTS. THE MANUFACTURERS ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ALL TRUSSES.

2.

MANUFACTURER SHALL PROVIDE SUBMITTALS SHOWING LAYOUT AND DETAIL NECESSARY FOR DETERMINING FIT AND PLACEMENT IN THE BUILDING PRIOR TO FABRICATION. SUBMITTALS SHALL ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN GEORGIA, BE

3.

CONNECTIONS OF THE TRUSS TO THE SUPPORTING STRUCTURE SHALL BE PER MANUFACTURERS INSTALLATION REQUIREMENTS.

4.

BOTTOM CHORD BRIDGING SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR A MINIMUM NET UPLIFT OF 16 PSF. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE PLACED AND TRUSS ENDS CONNECTED PRIOR TO THE APPLICATION OF ANY LOADS. COORDINATE BRIDGING LOCATIONS TO AVOID INTERFERENCE WITH ALL MECHANICAL, ELECTRICAL, FIRE PROTECTION EQUIPMENT, AND ARCHITECTURAL CONDITIONS.

5.

MINIMUM BEARING REQUIREMENTS SHALL BE AS SPECIFIED BY MANUFACTURER.

6.

HOLES IN TRUSS CHORDS ARE NOT PERMITTED.

7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRUSS ANCHORAGE THAT MEETS ALL OSHA REQUIREMENTS.

8.

ALL ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILING FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE TRUSSES SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE TRUSS. METHODS OF FRAMING THAT INDUCE BENDING TO THE STEEL JOIST CHORDS OR WEB MEMBERS WILL NOT BE PERMITTED.

PLYWOOD ROOF DECKING:

1.

DECKING SHALL BE 5/8" APA-CDX RATED PLYWOOD SHEATHING 32/16 (EXPOSURE 1).

2.

ORIENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT. END JOINT SHALL BE ALIGNED WITH THE MIDPOINT OF THE TWO ADJACENT PANELS. NO CONTINUOUS PANEL JOINTS ARE PERMITTED. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS (NO SINGLE SPAN CONDITIONS).

3.

ATTACHMENT OF PANEL TO WOOD FRAMING MEMBERS SHALL BE 10d NAILS AT THE FOLLOWING SPACINGS, UNLESS OTHERWISE NOTED:

4" AT ROOF PERIMETER

6" AT PANEL EDGES

12" AT INTERMEDIATE SUPPORTS

4.

EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

OSB WALL SHEATHING:

1.

15/32" APA-CDX SHEATHING FOR WOOD SHEAR WALLS.

2.

ATTACH SHEATHING TO WOOD STUDS WITH 10d NAILS AT FOLLOWING SPACING (UNLESS NOTED OTHERWISE). (SEE 54.1 FOR MORE INFORMATION)

6".....PERIMETER OF SHEETS

12".....INTERMEDIATE STUDS

3.

ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x STUDS.

VERIFICATION AND SPECIAL INSPECTION:

1.

THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AND TESTING DURING CONSTRUCTION FOR THE TYPES OF WORK INDICATED BY IBC SECTIONS 1704.1705, 1706, AND 1707. SUBMIT DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR THE BUILDING INSPECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

2.

APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION AND TESTING REPORTS TO THE OWNER, ARCHITECT AND BUILDING OFFICIAL AND STRUCTURAL ENGINEER OF RECORD WHICH INDICATES THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS, REPORTS WHICH DOCUMENT THE RESULTS OF THE SPECIAL INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT FREQUENCY APPROVED BY THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. A FINAL REPORT DOCUMENTING ALL THE WORK HAS BEEN PERFORMED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE SUBMITTED AT THE END OF THE PROJECT.

3.

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

4.

SEE THE PROJECT SPECIFICATIONS AND SECTION 1704 OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENTS.

DEFINITIONS:

1.

SPECIAL INSPECTION, PERIODIC: A PART-TIME OR INTERMITTENT OBSERVATION. WORK BEING PERFORMED REQUIRING A PRESENCE WHEN THE WORK IS BEING PERFORMED AND AFTER COMPLETION OF THE WORK. PRESENCE AT THE JOB SITE SHALL BE WEEKLY AT MINIMUM OR GREATER AS REQUESTED BY THE OWNER.

2.

SPECIAL INSPECTION, CONTINUOUS: A FULL-TIME OBSERVATION OF WORK REQUIRING CONTINUOUS JOBSITE PRESENCE WHEN AND WHERE THE WORK IS BEING PERFORMED.

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THATE SITE HAS BEEN PREPARED PROPERLY.	—	X	

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	—	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" ; AND C. INSPECT ALL OTHER WELDS.	— — X	X —	AWS D1.4 ACI 318: 26.6.4	— —
3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2	—
4. INSPECTING ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: ^b A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X —	— X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	— —
5. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ACI 318: 26.5, 26.12 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	—	ACI 318: 26.10	—
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9	—
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUTURAL SLABS.	—	X	ACI 318: 26.11.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.2(b)	—

FOR S1: 1 INCH = 25.4mm

A. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI318, OR OTHER OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTEREDDESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

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SUITE 510
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404.549.4499

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MJL

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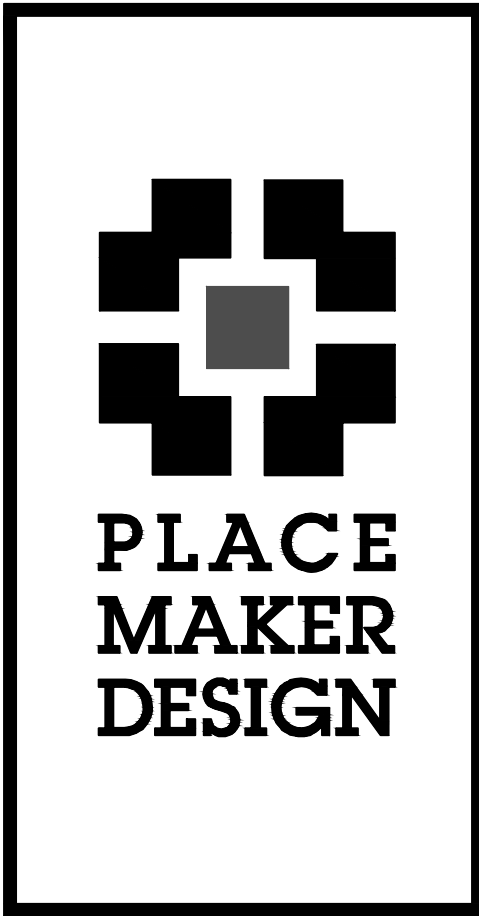
GENERAL NOTES

SHEET #

S0.2

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (PURSUANT TO AISC 360-16 QUALITY CONTROL AND QUALITY ASSURANCE - CHAPTER 'N')					
INSPECTIONS TASKS PRIOR TO WELDING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		X	X		AISC 360-10 TABLE N5.4-1
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	X		X		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X		X		
MATERIAL IDENTIFICATION (TYPE/GRADE)		X		X	
WELDER IDENTIFICATION SYSTEM		X		X	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)		X		X	
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION)		X	X		
CONFIGURATION AND FINISH OF ACCESS HOLES		X		X	
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACE) • TACKING (TACK WELD QUALITY AND LOCATION)		X		X	
CHECK WELDING EQUIPMENT			X		
THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.					
INSPECTIONS TASKS DURING WELDING	QA		QA		AISC 360-10 TABLE N5.4-2
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL		X		X	
NO WELDING OVER CRACKED TACK WELDS		X		X	
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE		X		X	
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)		X		X	
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS		X		X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X		X		
INSPECTIONS TASKS AFTER WELDING	QA		QA		AISC 360-10 TABLE N5.4-3
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
WELDS CLEANED		X		X	
SIZE, LENGTH AND LOCATION OF WELDS	X		X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	X		X		
ARC STRIKES	X		X		
K-AREA ^[6]	X		X		
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ^[9]	X		X		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X		X		
REPAIR ACTIVITIES	X		X		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	X		X		
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR		X		X	
^[6] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD. ^[9] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1C) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1D) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.					

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (PURSUANT TO AISC 360-16 QUALITY CONTROL AND QUALITY ASSURANCE - CHAPTER 'N')					
INSPECTIONS TASKS PRIOR TO BOLTING	QA		QA		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	X			X	AISC 360-10 TABLE N5.6-1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		X		X	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		X		X	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		X		X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE PAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		X		X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		X	X		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		X		X	
INSPECTIONS TASKS DURING BOLTING	QA		QA		AISC 360-10 TABLE N5.6-2
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		X		X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		X		X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		X		X	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		X		X	
INSPECTIONS TASKS AFTER BOLTING	QA		QA		AISC 360-10 TABLE N5.6-3
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X		X		

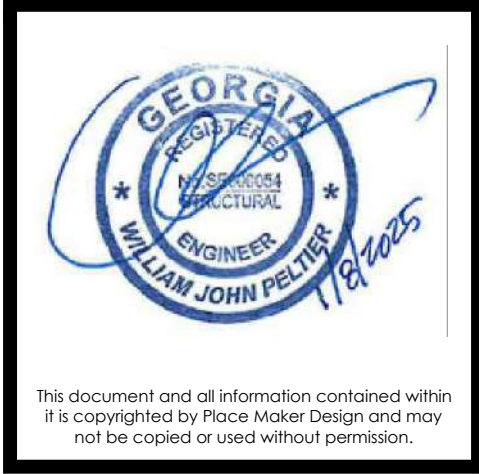


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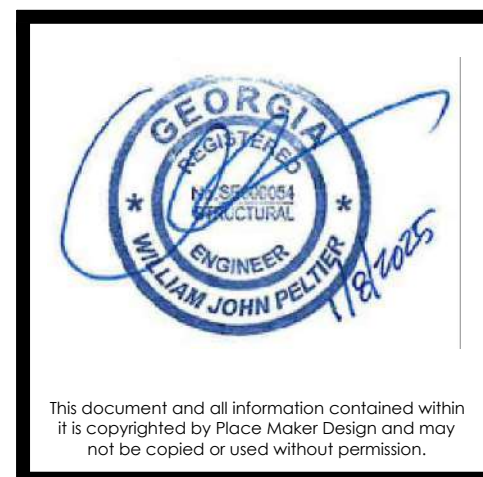
GENERAL NOTES

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S0.3

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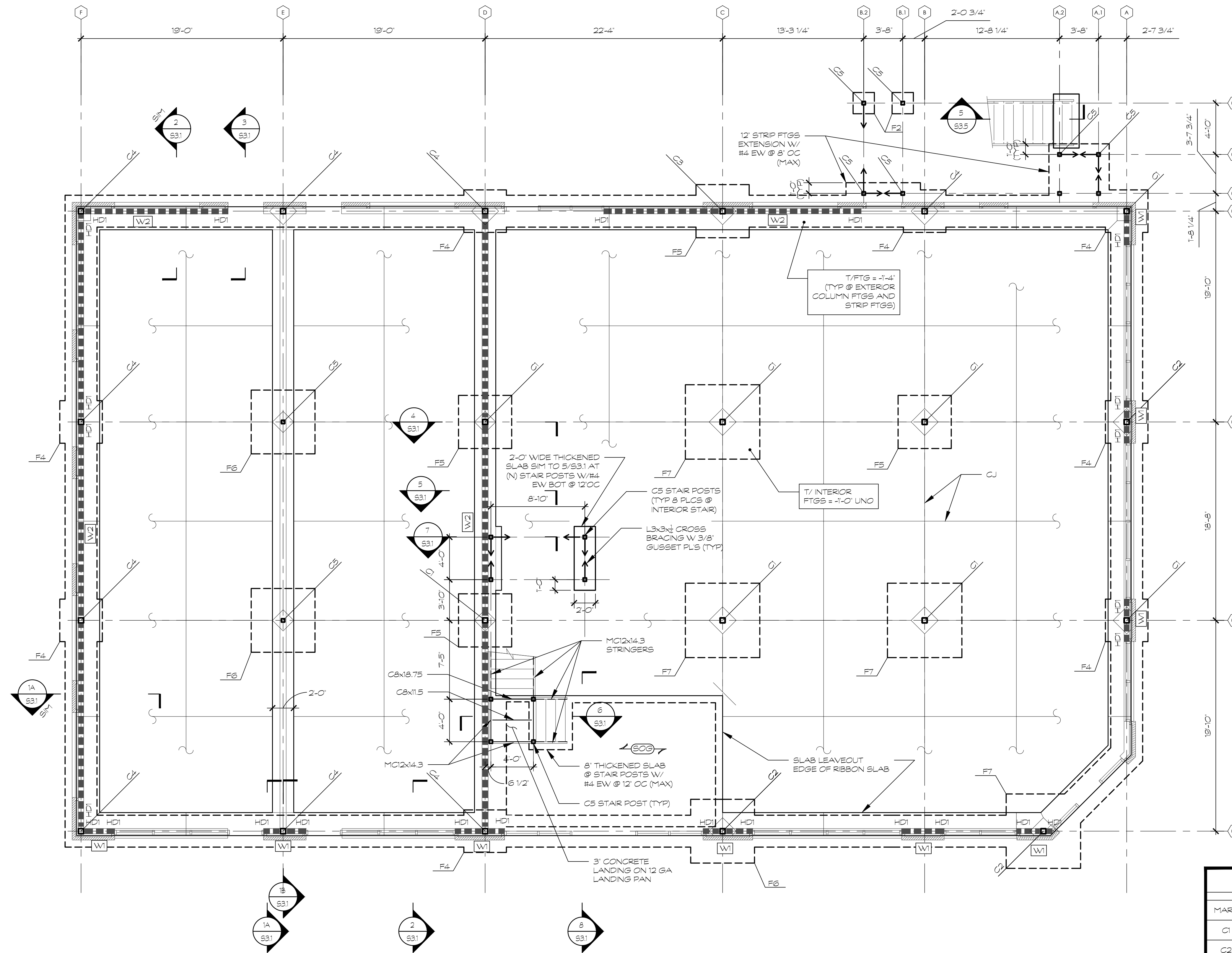
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FOUNDATION
PLAN

SHEET #

S1.1



1 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

FOUNDATION NOTES:

- INDICATES SLAB ON GRADE. SLAB ON GRADE SHALL BE 4" CONCRETE SLAB (3000 PSI) ON 10 MIL (MIN) VAPOR RETARDER ON 4" FLOOR SLAB BASE MATERIAL W/ (1) LAYER 6X6-W1.4X1.4 WWF 1' FROM TOP OF SLAB. UNO ON PLAN. ALL SLOPES TO DRAINS SHALL BE ACHIEVED BY SLOPING TOP AND BOTTOM OF SLAB AT THE SAME RATE SEE L/S4.4
- INDICATES 2x TIMBER SHEAR WALL. FASTEN SHEATHING AS INDICATED ON SHEET S4.3.
- INDICATES HOLDDOWN - SEE S4.3.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
- INDICATES TOP OF FOOTING ELEVATION BELOW FFE
- INDICATES CONTROL/CONSTRUCTION JOINTS IN SLAB. SEE GENERAL NOTES FOR MORE INFORMATION REGARDING THE LAYOUT OF JOINTS. PROPOSED JOINT LAYOUT SHALL BE SUBMITTED AS A SHOP DRAWING FOR ARCHITECT APPROVAL PRIOR TO SLAB PLACEMENT - SEE SPECIFICATIONS - SEE H & J/S4.4

NOTES TO CONTRACTOR
THE CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS AND NOTE THE LOCATION OF ALL UNDERGROUND OR UNDER FLOOR PIPING & CONDUITS. THE CONTRACTOR SHALL INCORPORATE ALL FOOTING STEPS NECESSARY PER THE REQUIREMENTS OF ALL UNDERGROUND OR UNDER FLOOR PIPING, MECHANICAL, AND ELECTRICAL PIPING. THE CONTRACTOR SHALL REFER TO THE TYPICAL FOUNDATION DETAILS D THRU F/S4.4 WHEN PERFORMING THIS WORK. LOCATION OF ALL STEPPED FOOTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STEP FOOTING LOCATIONS SHALL BE SHOWN ON THE FOUNDATION SHOP DRAWINGS AND REVIEWED BY THE SEGR PRIOR TO INSTALLATION.

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PLATE	ANCHOR ROD SIZE	EMBEDMENT	REMARKS
C1	HSS6x6x3/8	1'-0"x1'-0"x3/4"	(4) 3/4"	1'-0"	
C2	HSS6x6x5/16	1'-0"x1'-0"x3/4"	(4) 3/4"	1'-0"	
C3	HSS6x6x1/4	1'-0"x1'-0"x3/4"	(4) 3/4"	1'-0"	
C4	HSS6x6x3/16	1'-0"x1'-0"x3/4"	(4) 3/4"	1'-0"	
C5	HSS4x4x1/4	8"x8"x3/4"	(4) 5/8"	1'-0"	

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F2	2'-0" x 2'-0" x 1'-0"	(3) #4 EW BOT	
F3	3'-0" x 3'-0" x 1'-0"	(4) #4 EW BOT	
F4	4'-0" x 4'-0" x 1'-0"	(4) #5 BOT EW	
F5	5'-0" x 5'-0" x 1'-6"	(5) #5 BOT EW, (5) #3 EW TOP	
F6	6'-0" x 6'-0" x 1'-6"	(6) #5 BOT EW, (6) #3 EW TOP	
F7	7'-0" x 7'-0" x 1'-6"	(7) #5 BOT EW, (7) #3 EW TOP	
F7_4	7'-0" x 4'-0" x 1'-0"	(7) #5 BOT EW, (4) #5 LW BOT	

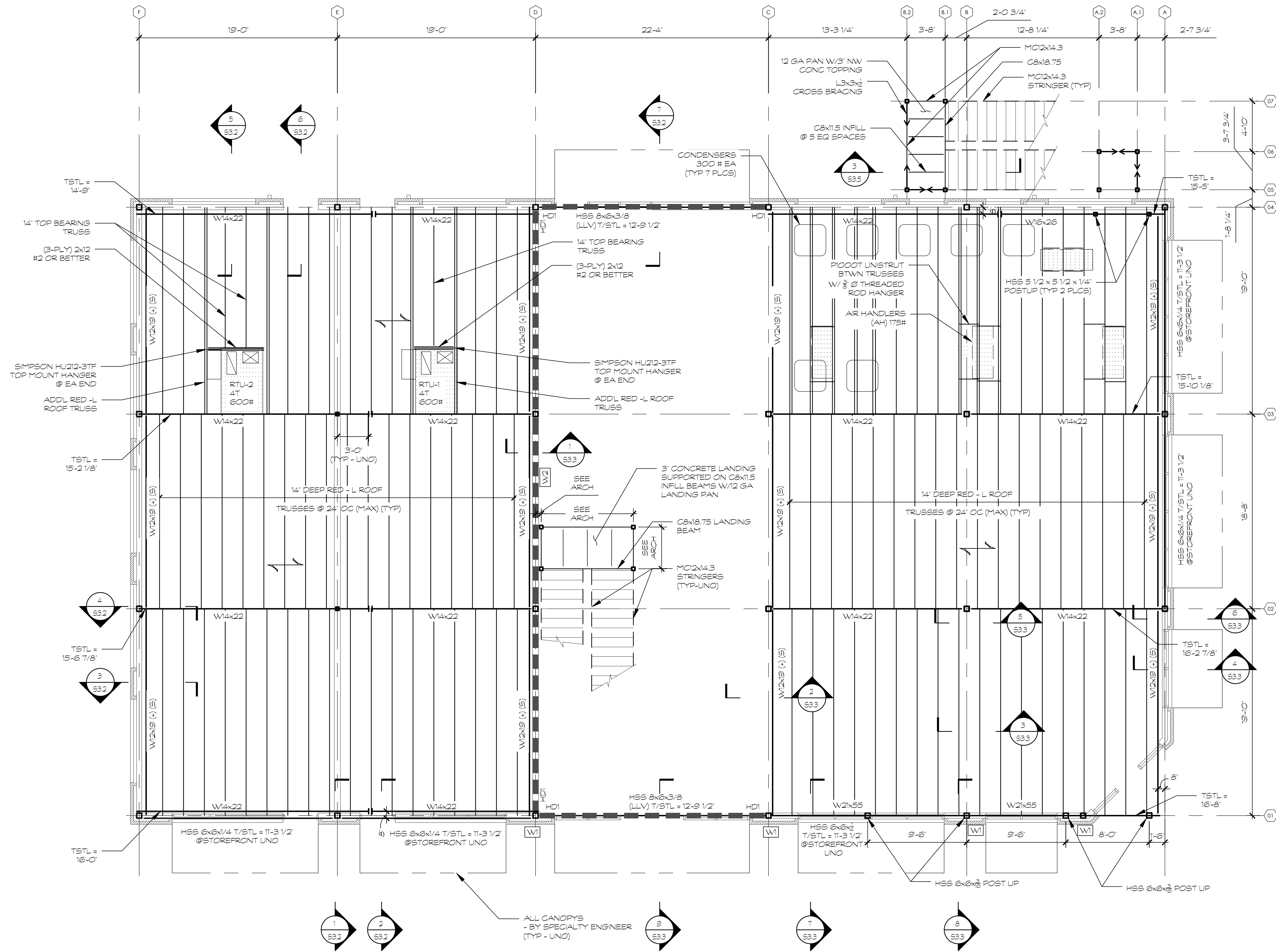
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LOW ROOF
PLAN



1 LOW ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

LOW ROOF FRAMING NOTES:

- INDICATES SPAN OF $\frac{3}{4}$ " PLYWOOD ROOF DECK - FASTENED @ 6" OC EDGE & 12" OC FIELD W/ 10d COMMON NAILS (TYP-UNO).
- "TBE" INDICATES TRUSS BEARING ELEVATION ABOVE FFE.
- T/STL INDICATES TOP OF STEEL ELEVATION ABOVE FFE.
- CANOPY DESIGN IS BY SPECIALTY ENGINEER - THEY SHALL BE DESIGNED FOR THE APPROPRIATE LIVE LOADS AND SNOW LOADS AS REQUIRED IN IBC 2018 CHAPTER 16.
- INDICATES BEAM SPLICE SEE S/53.3 FOR DETAIL.
- SEE S4.4 FOR NON-LOAD BEARING HEADER DETAILS -UNO.

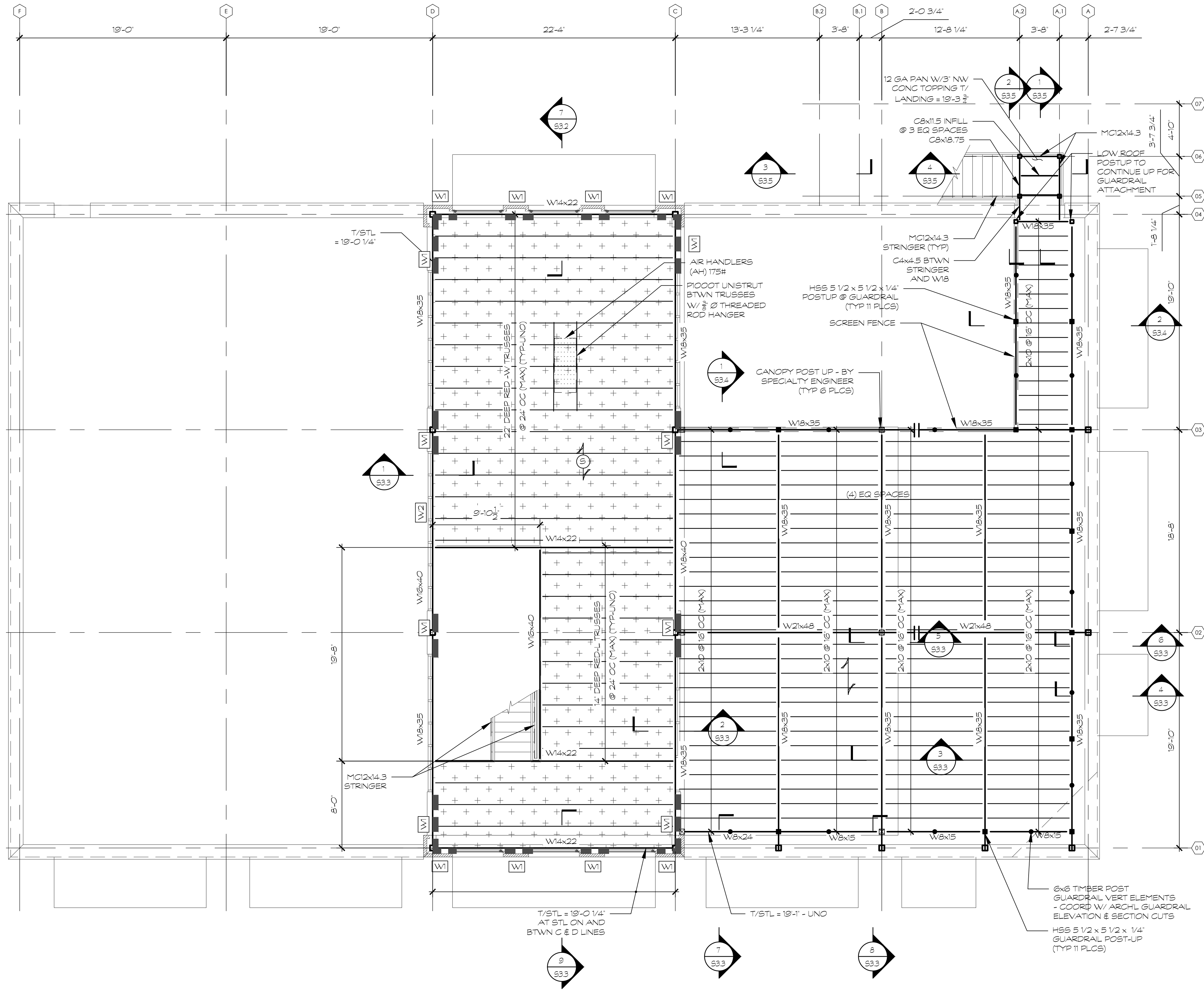
LOADS:

DEAD LOAD	15 PSF
LIVE LOAD	20 PSF

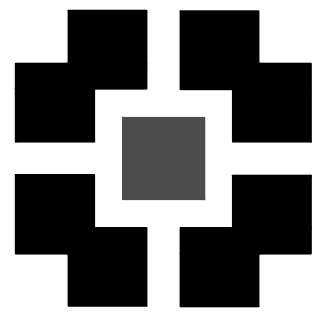
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1 2ND FLOOR & PATIO FRAMING PLAN
S1.3 SCALE: 3/16" = 1'-0"



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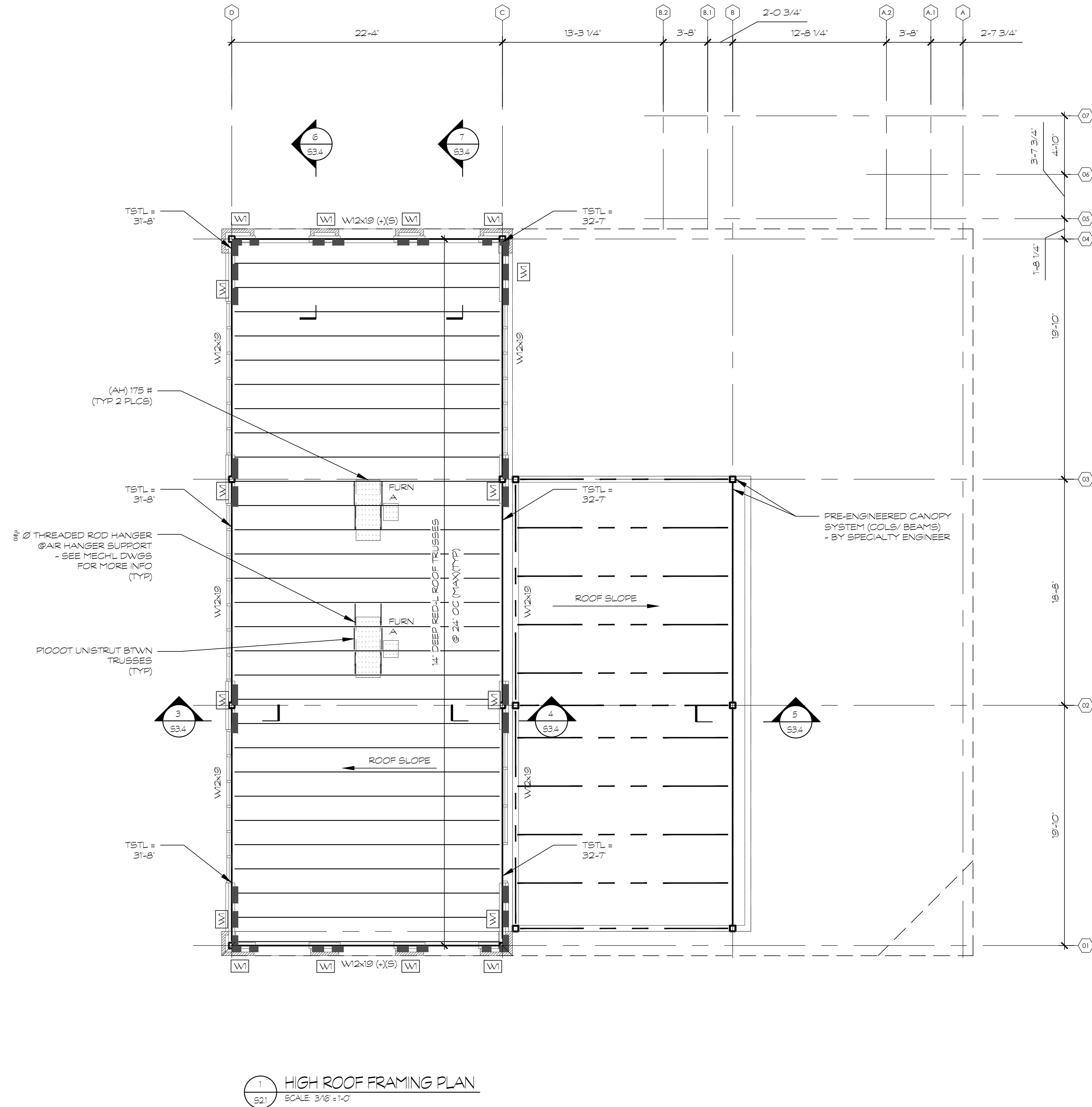
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SHEET TITLE
**HIGH ROOF
FRAMING PLAN**

SHEET #
S2.1

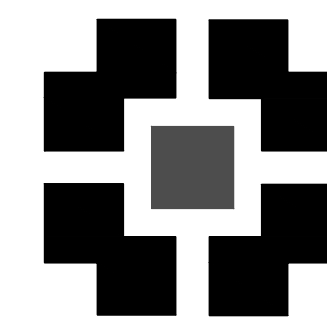


ROOF FRAMING NOTES:

1.  INDICATES 2x TIMBER SHEAR WALL. FASTEN SHEATHING AS INDICATED ON SHEETS S4.1-S4.2.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
3. T/STL INDICATES TO OF STEEL ELEVATION ABOVE FFE.

NOTES TO CONTRACTOR:
THE CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS AND NOTE THE LOCATION OF ALL UNDERGROUND OR UNDER FLOOR PIPING & CONDUITS. THE CONTRACTOR SHALL INCORPORATE ALL FOOTING STEPS NECESSARY PER THE REQUIREMENTS OF ALL UNDERGROUND OR UNDER FLOOR PLUMBING, MECHANICAL, AND ELECTRICAL PIPING. THE CONTRACTOR SHALL REFER TO THE TYPICAL FOUNDATION DETAILS D THRU F/S4.4 WHEN PERFORMING THIS WORK. LOCATION OF ALL STEPPED FOOTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STEP FOOTING LOCATIONS SHALL BE SHOWN ON THE FOUNDATION SHOP DRAWINGS AND REVIEWED BY THE SEOR PRIOR TO INSTALLATION.

LOADS:
DEAD LOAD 15 PSF
LIVE LOAD 20 PSF



PLACE
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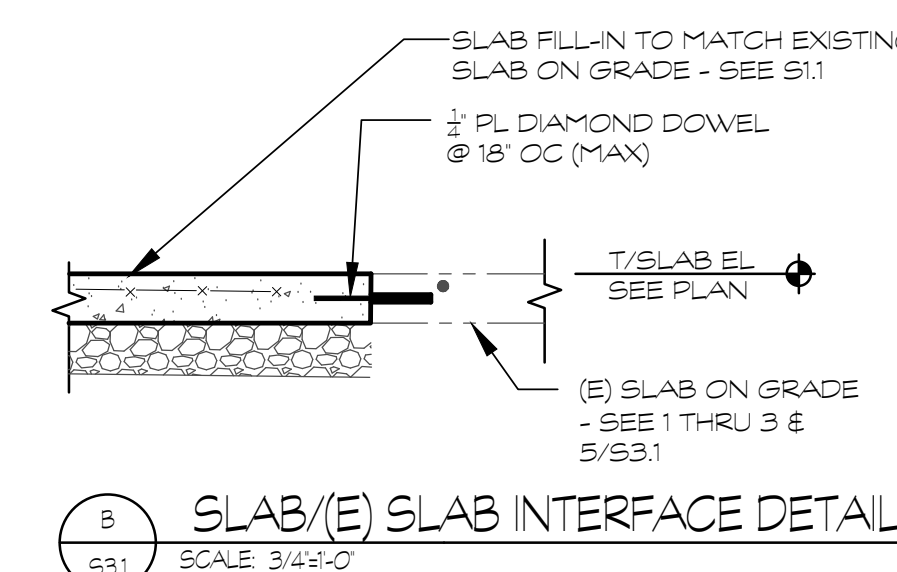
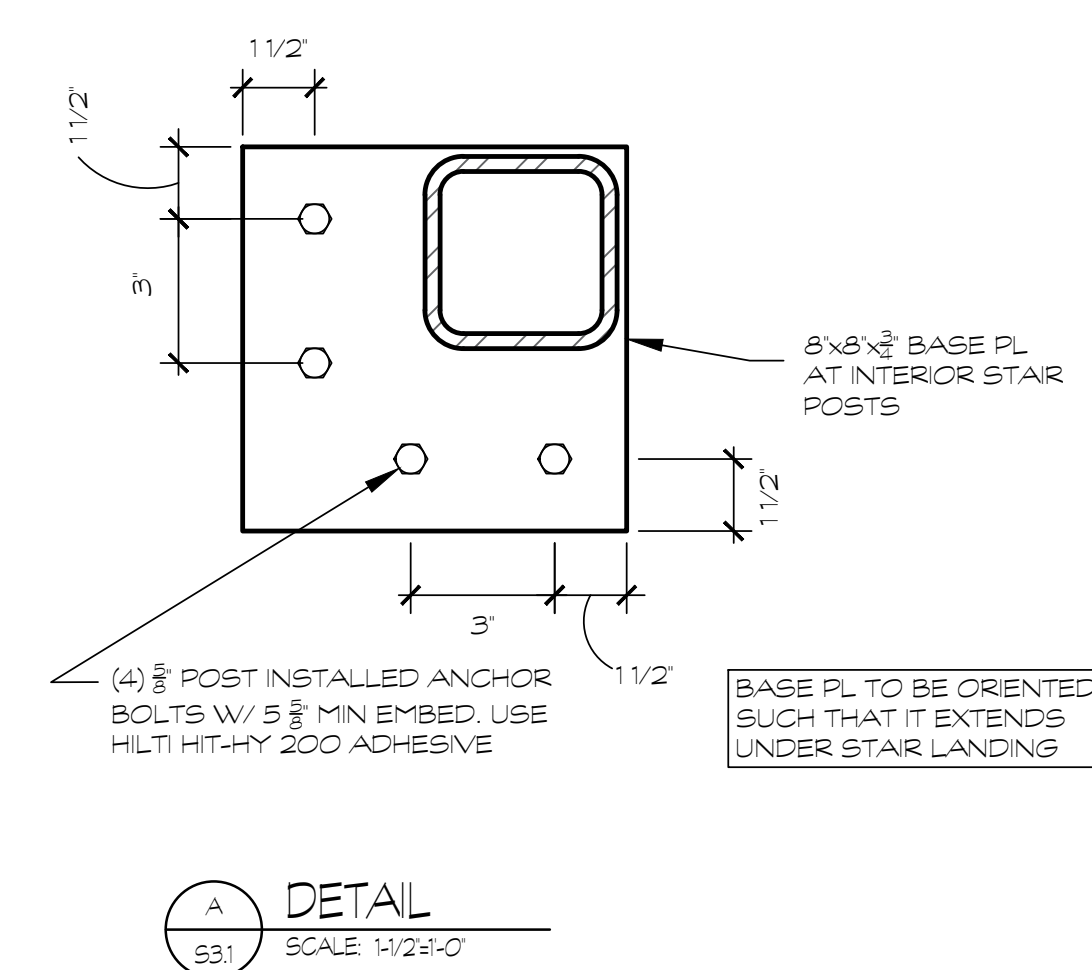
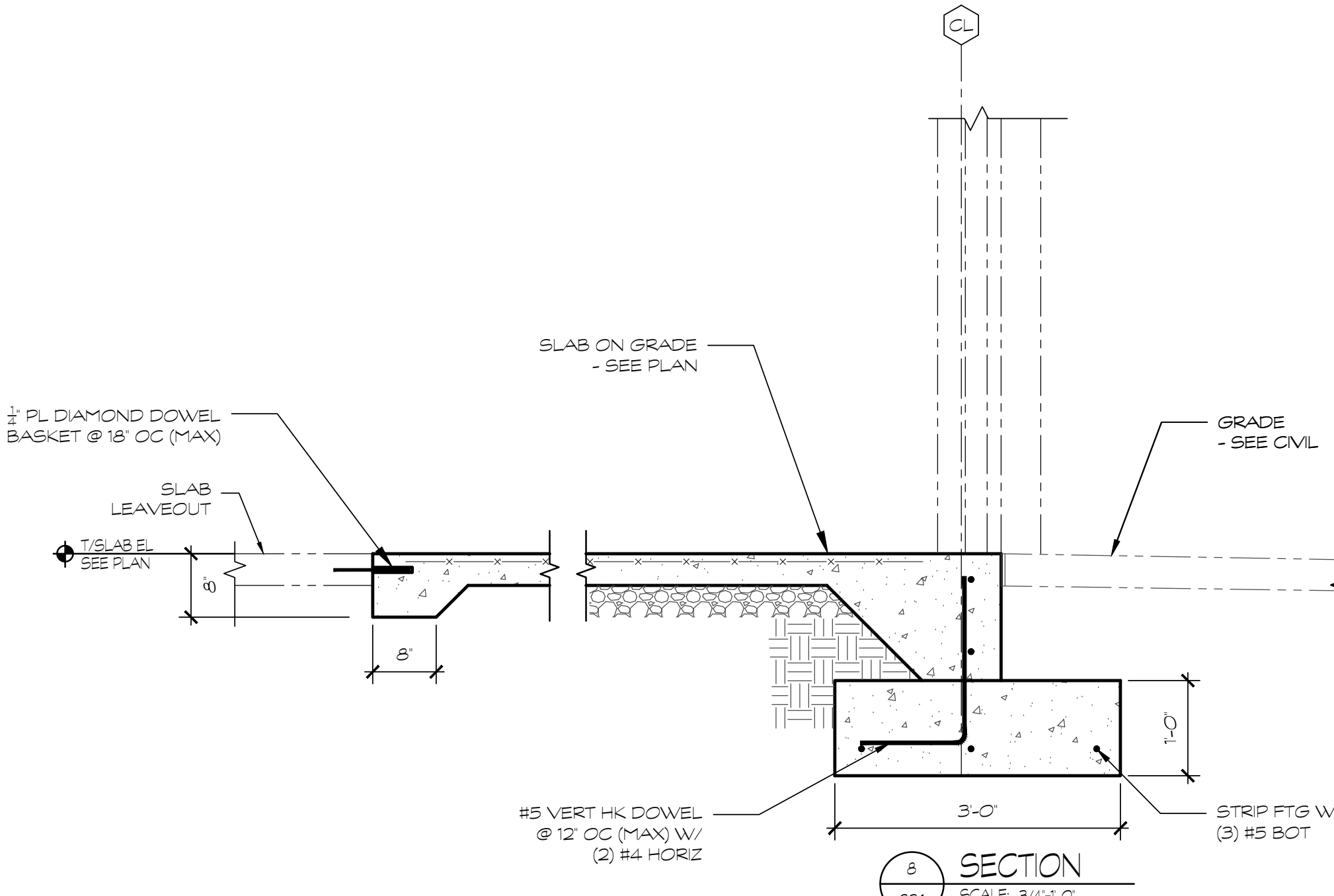
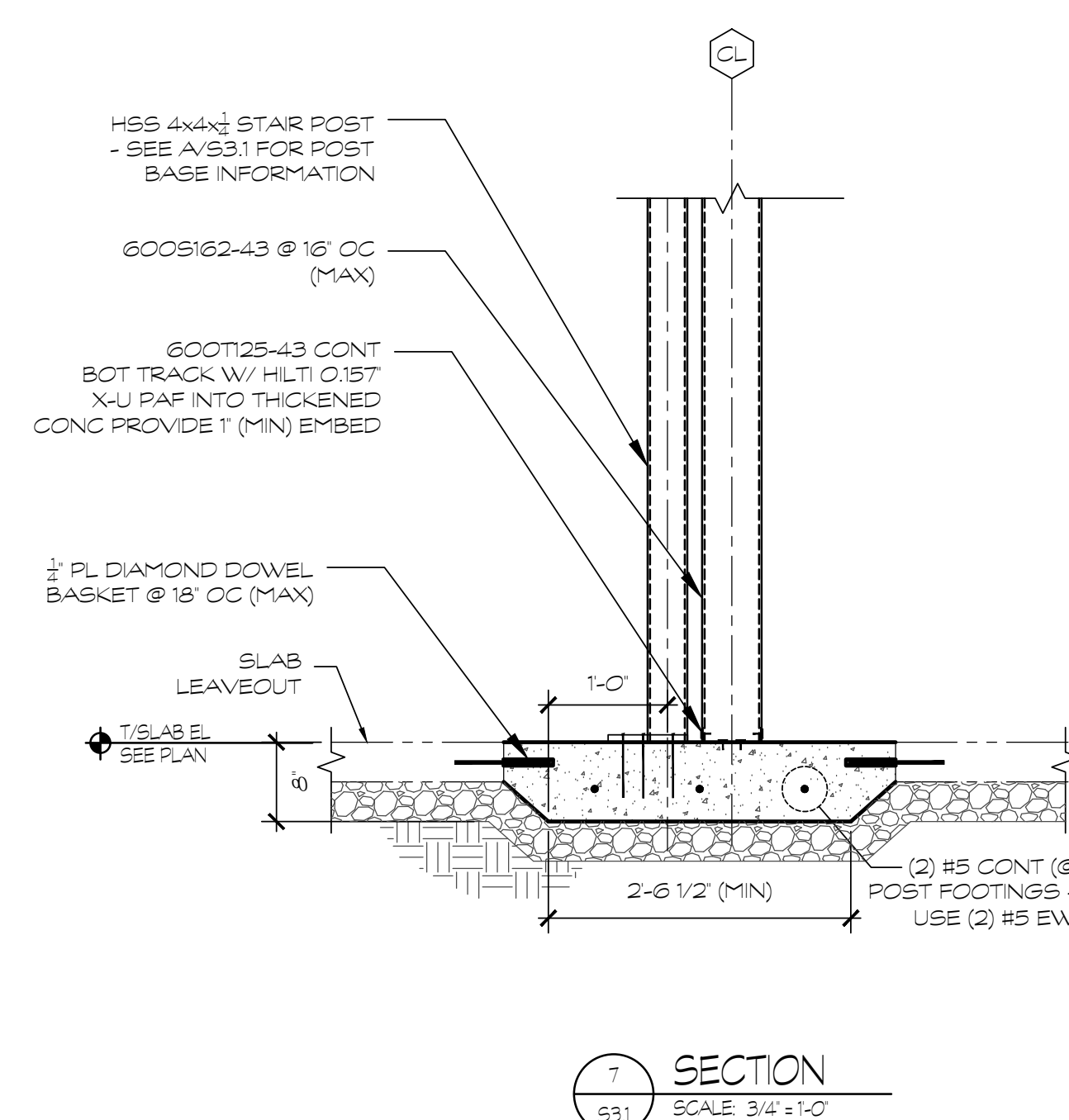
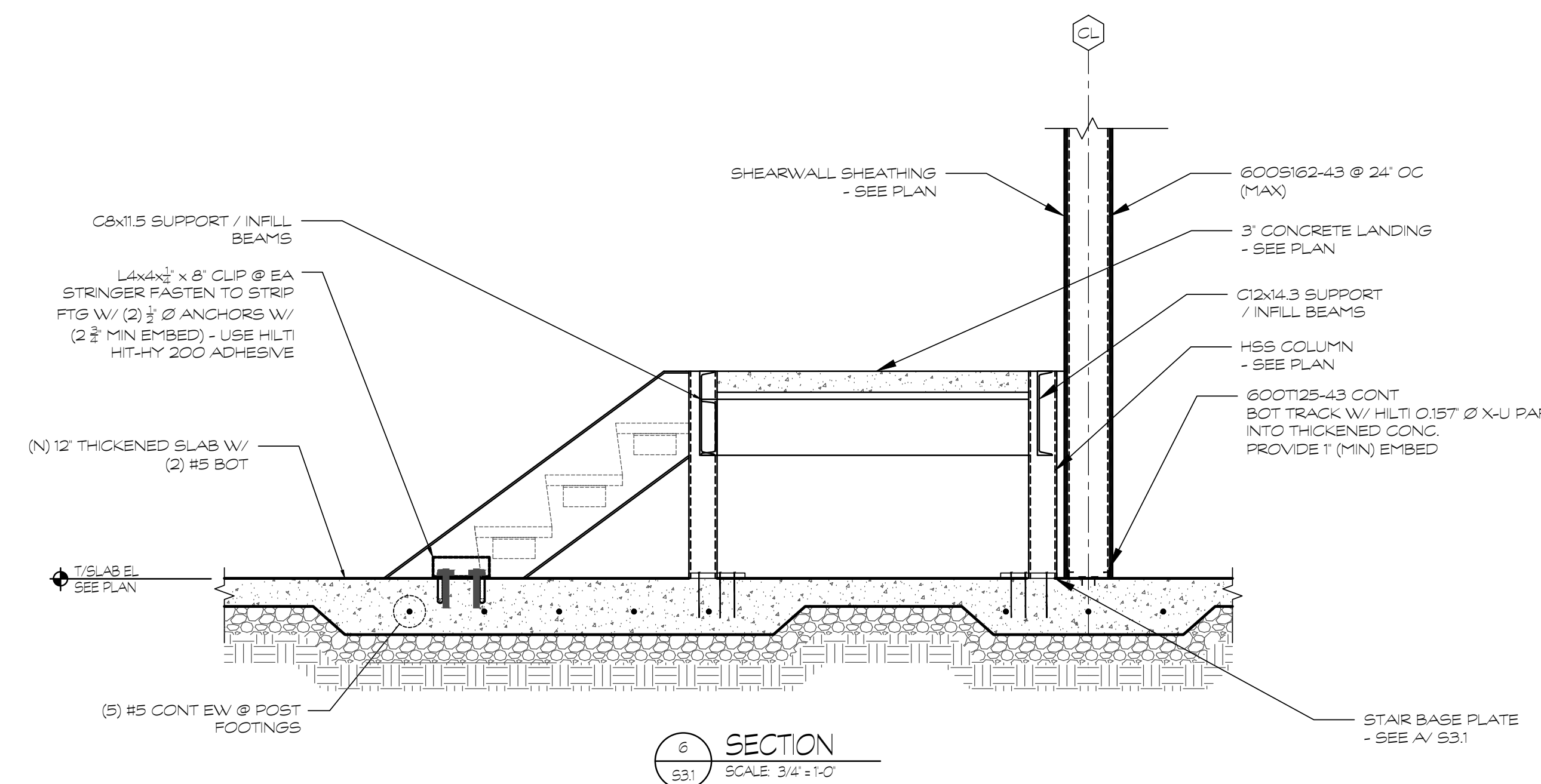
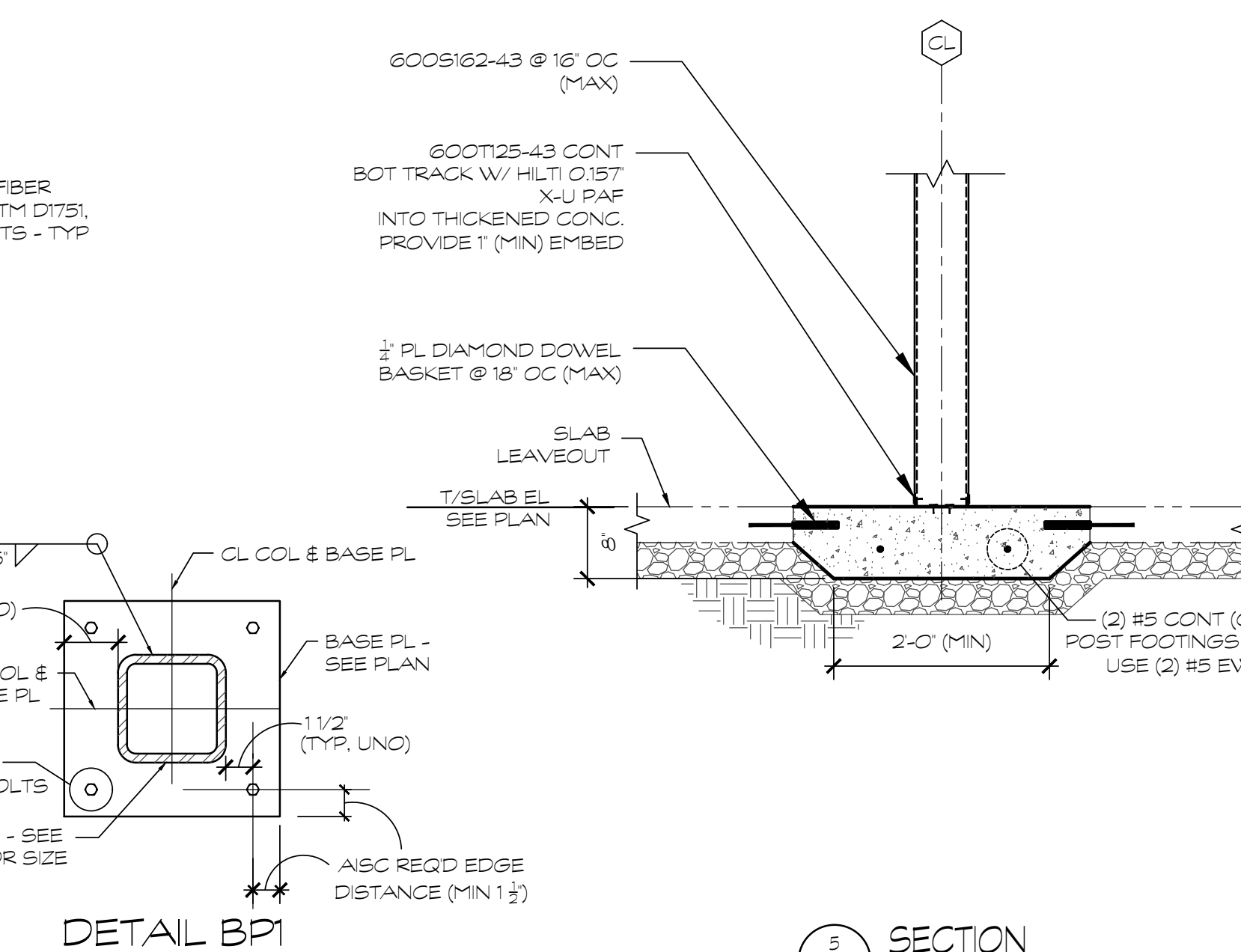
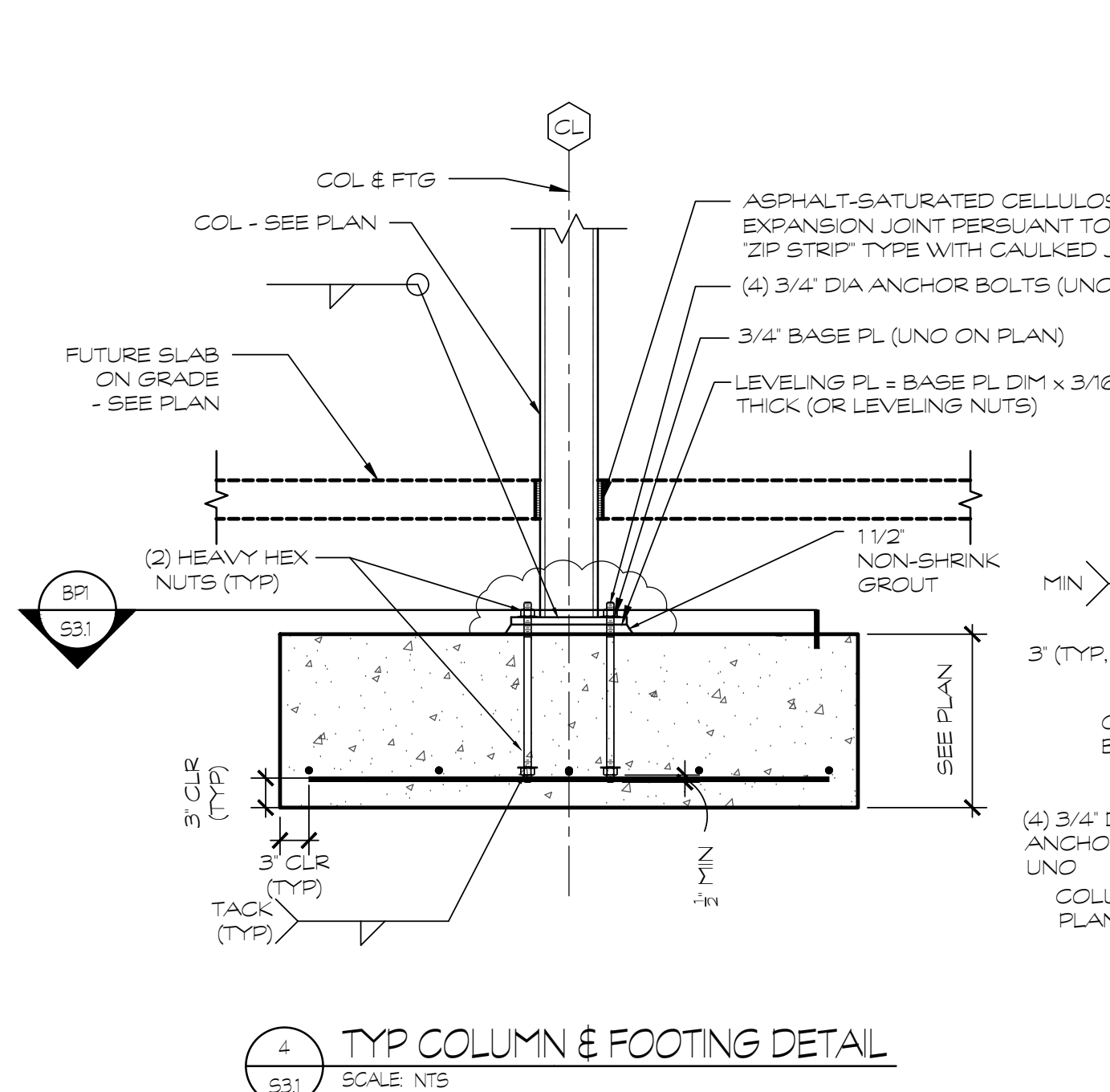
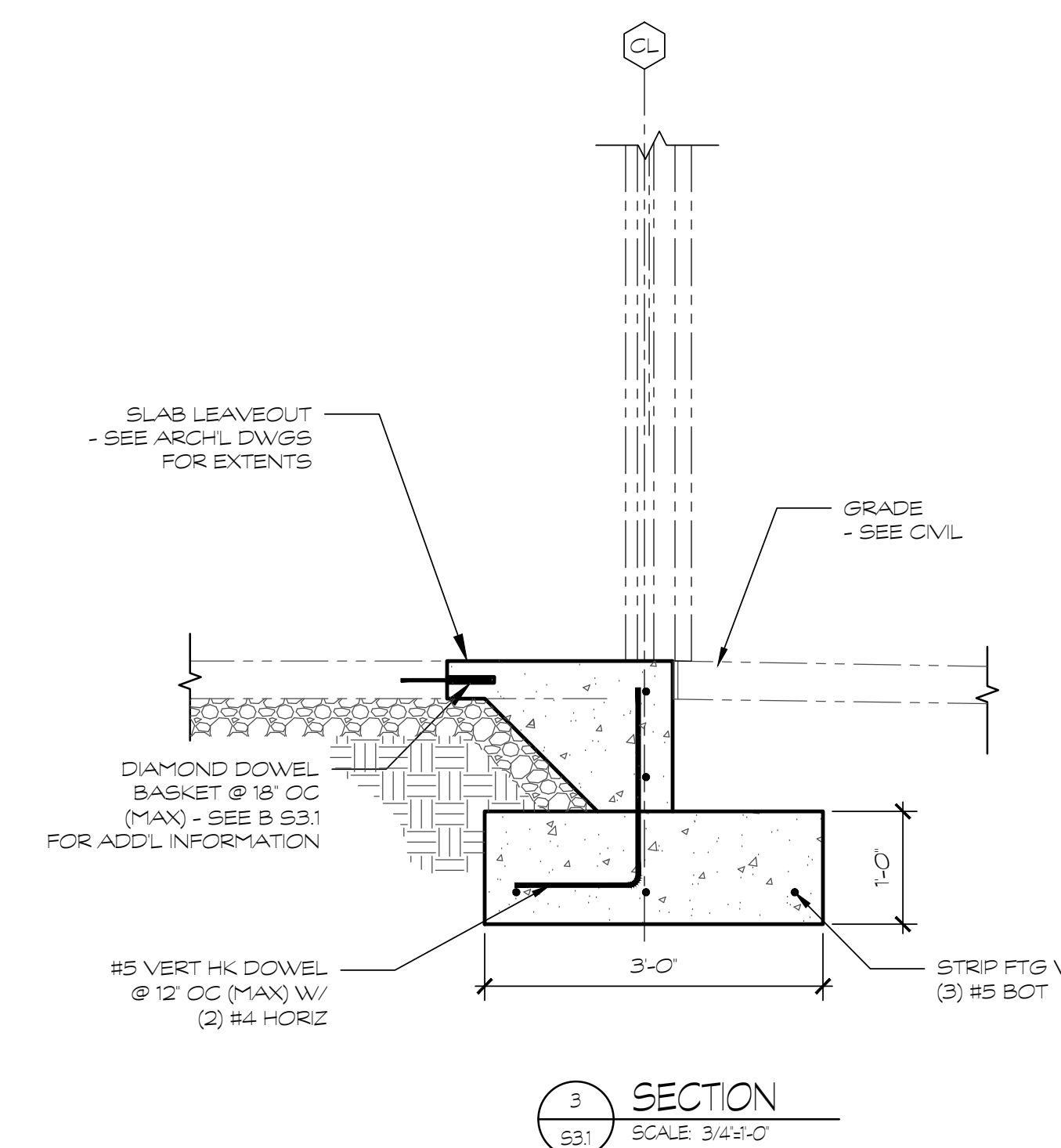
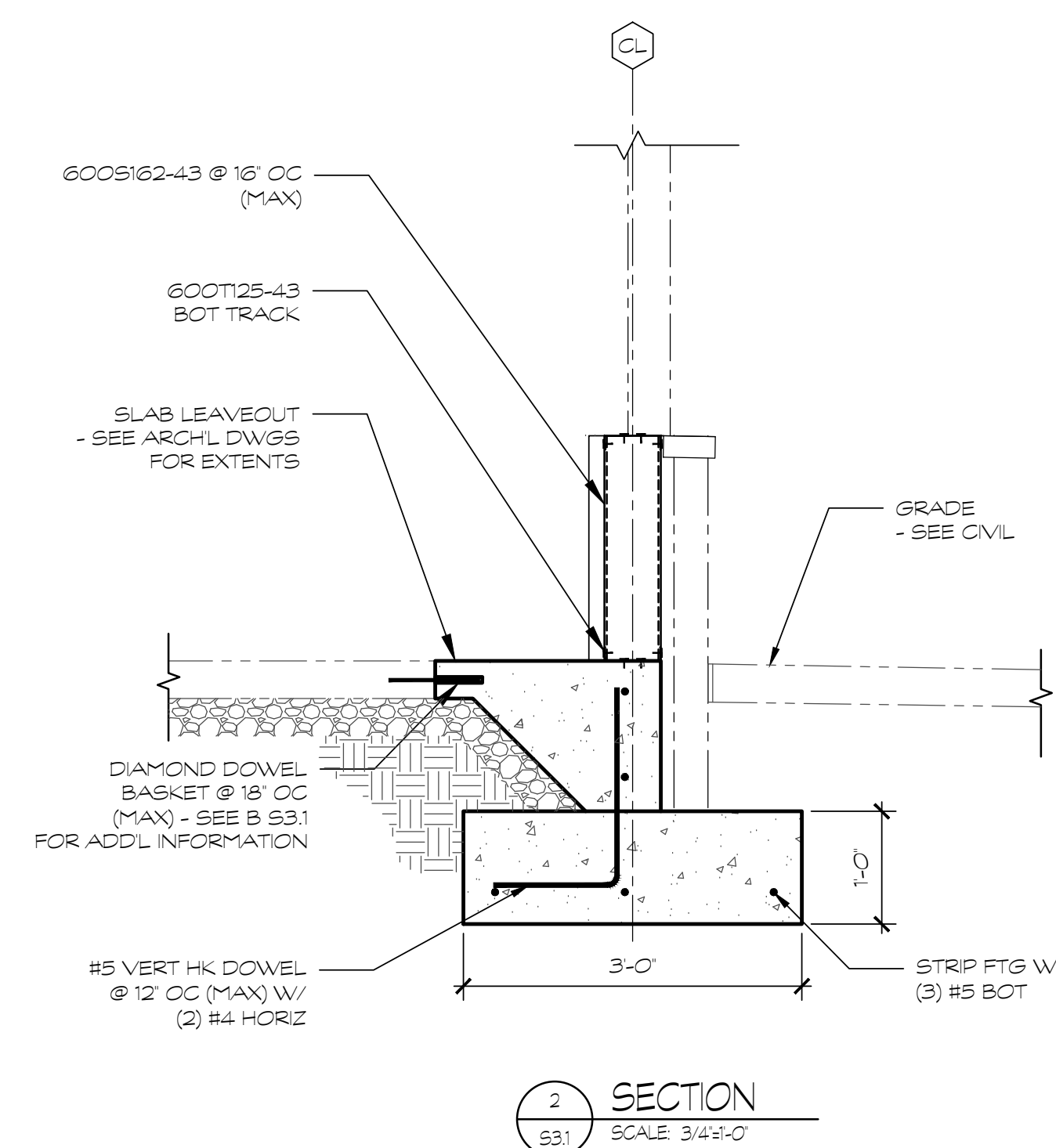
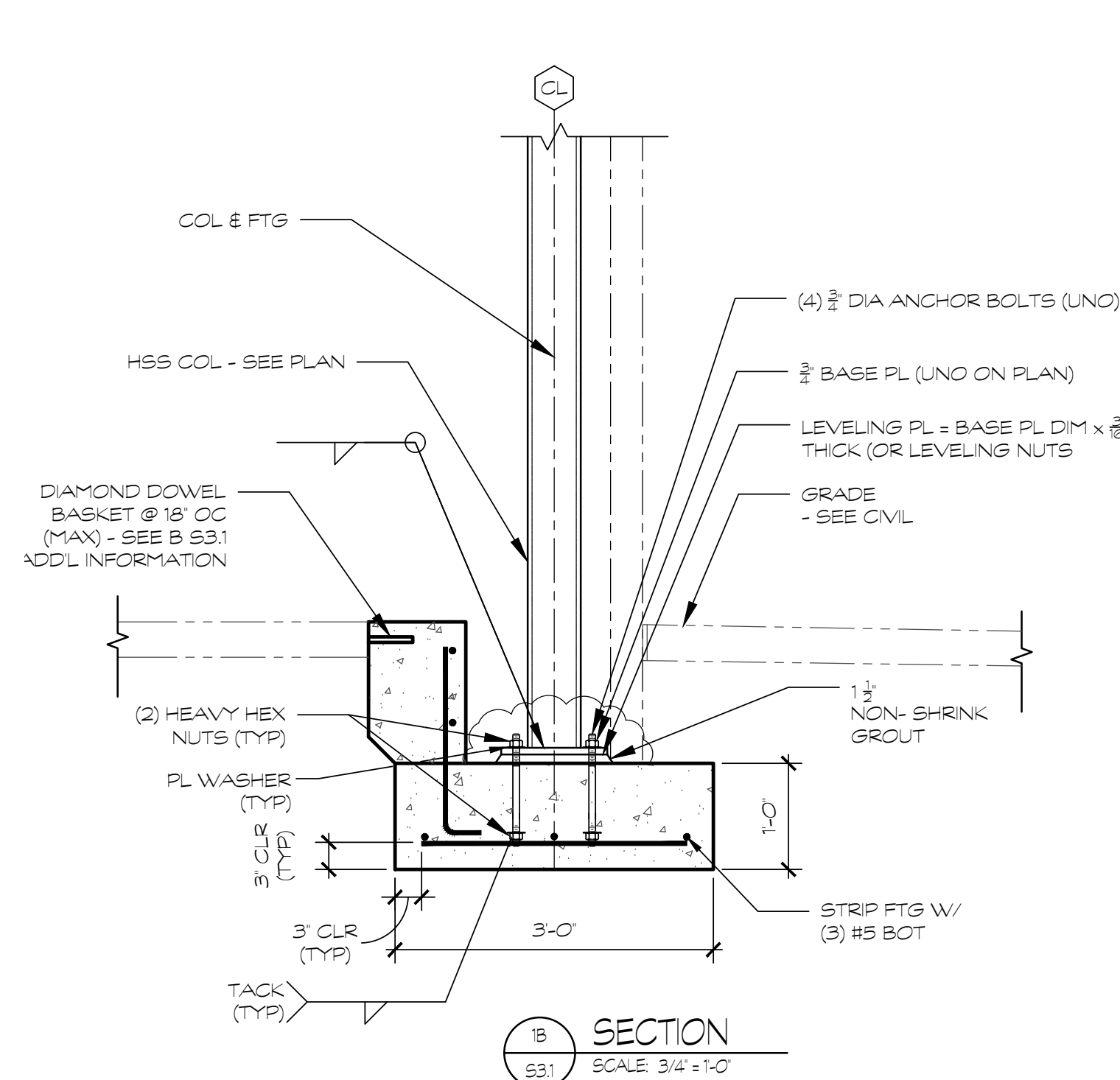
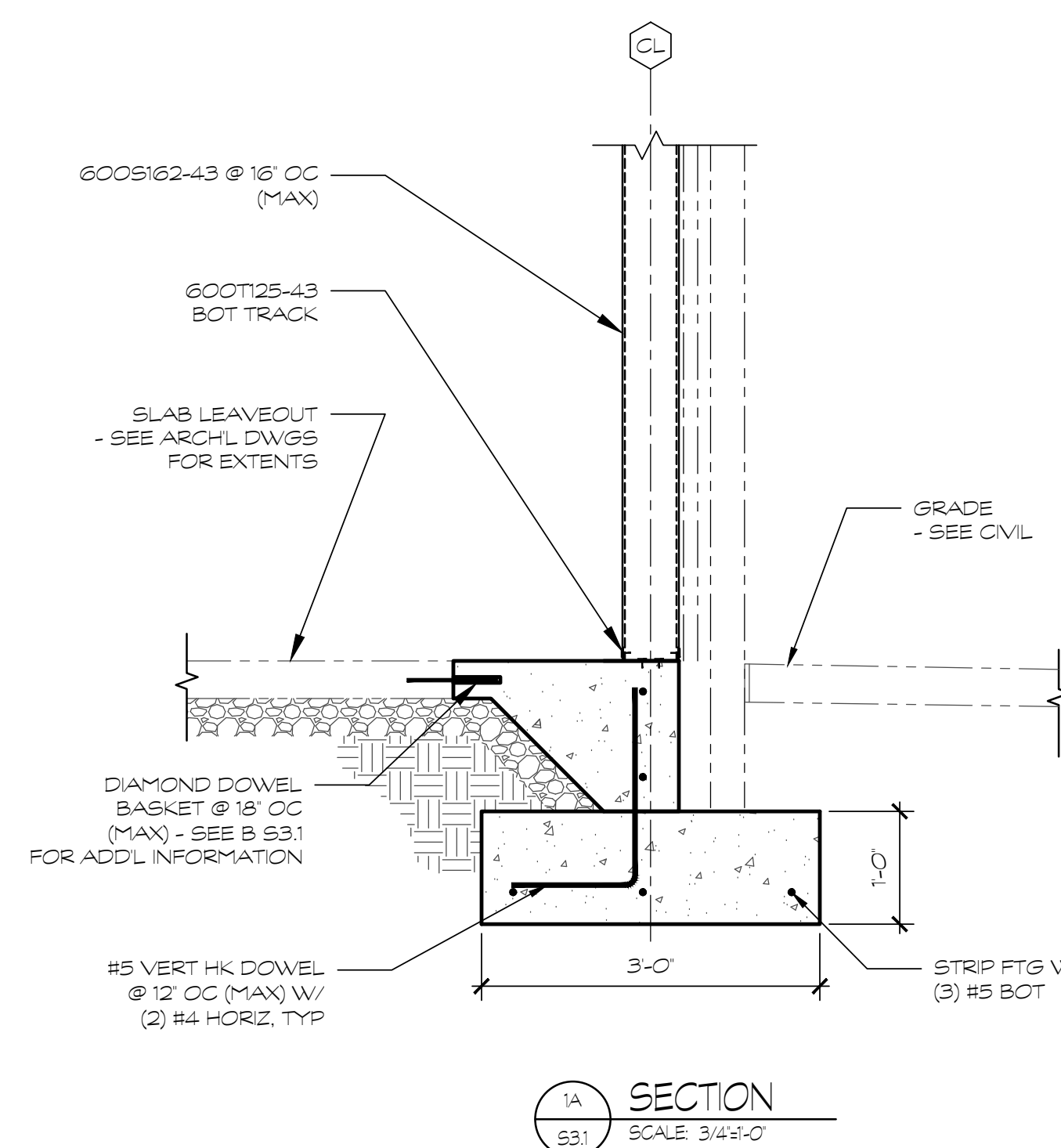
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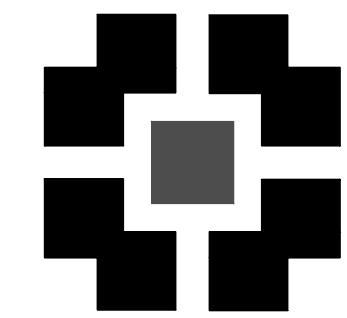
SHEET TITLE

SECTIONS &
DETAILS

SHEET #

S3.1





PLACE
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REV #	DATE	DESCRIPTION

21 LEAKE STREET
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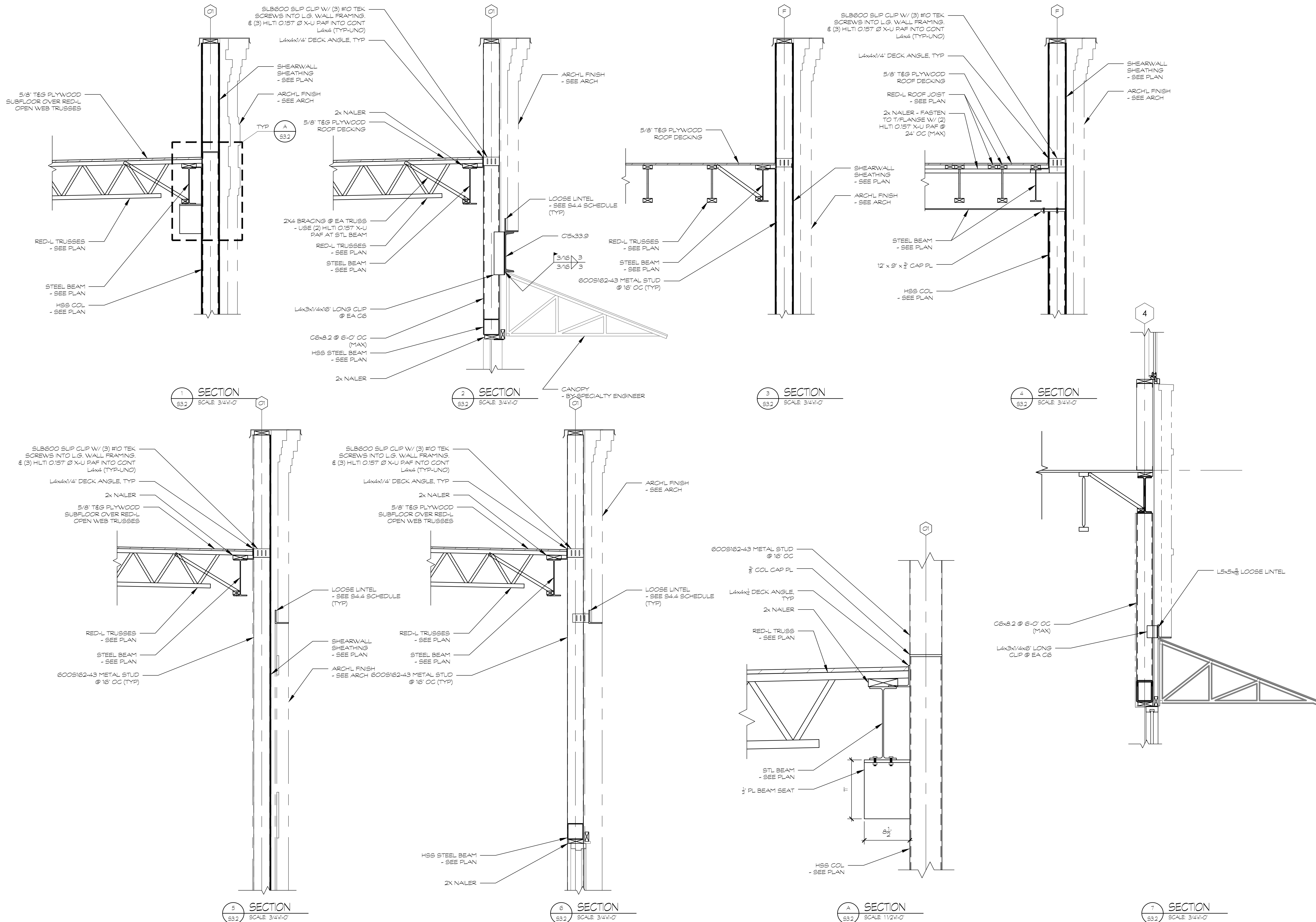
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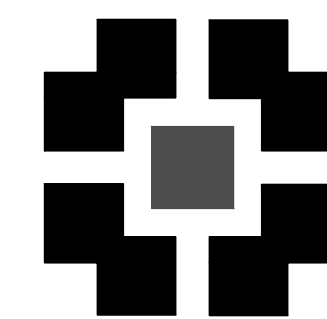
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SHEET TITLE

SECTIONS &
DETAILS

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PLACE
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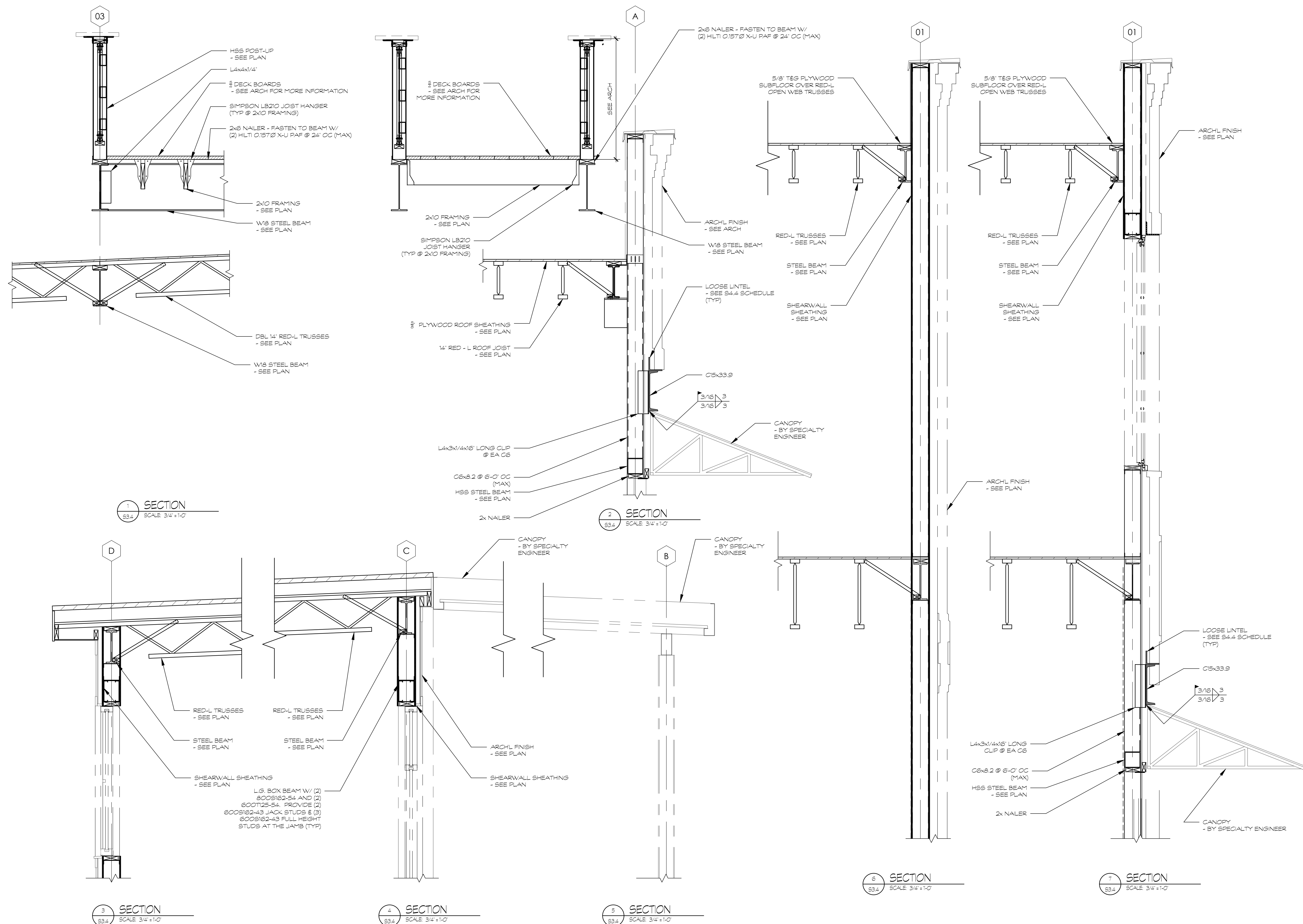
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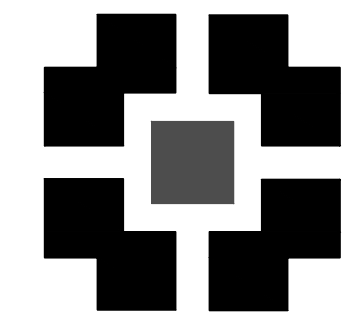
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SECTIONS &
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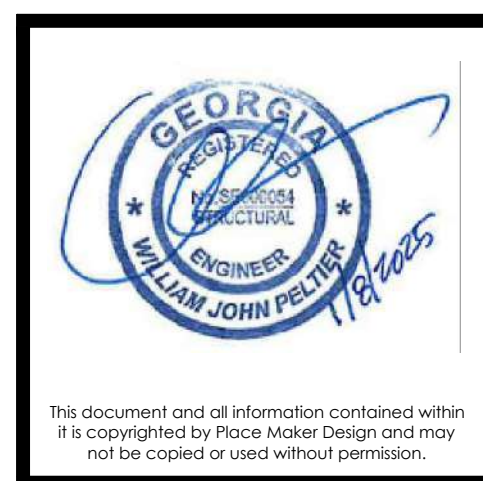




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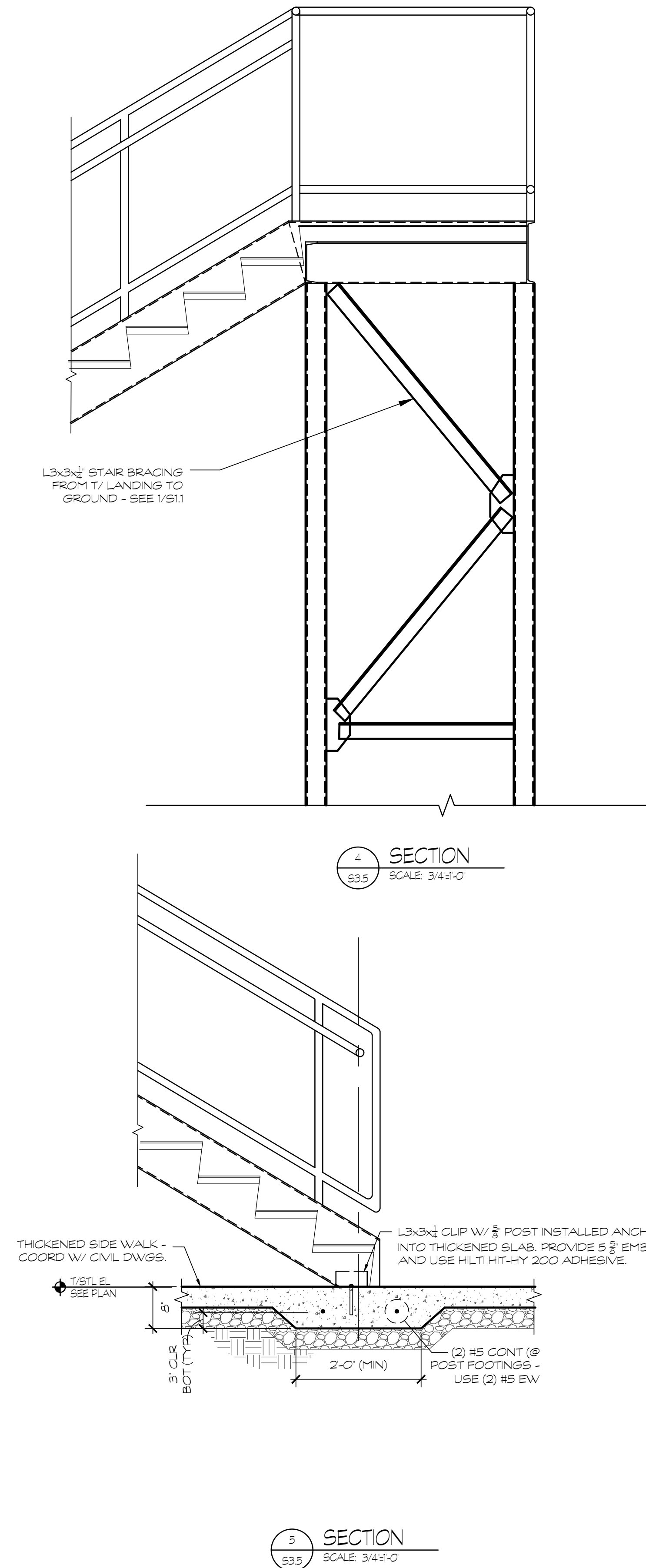
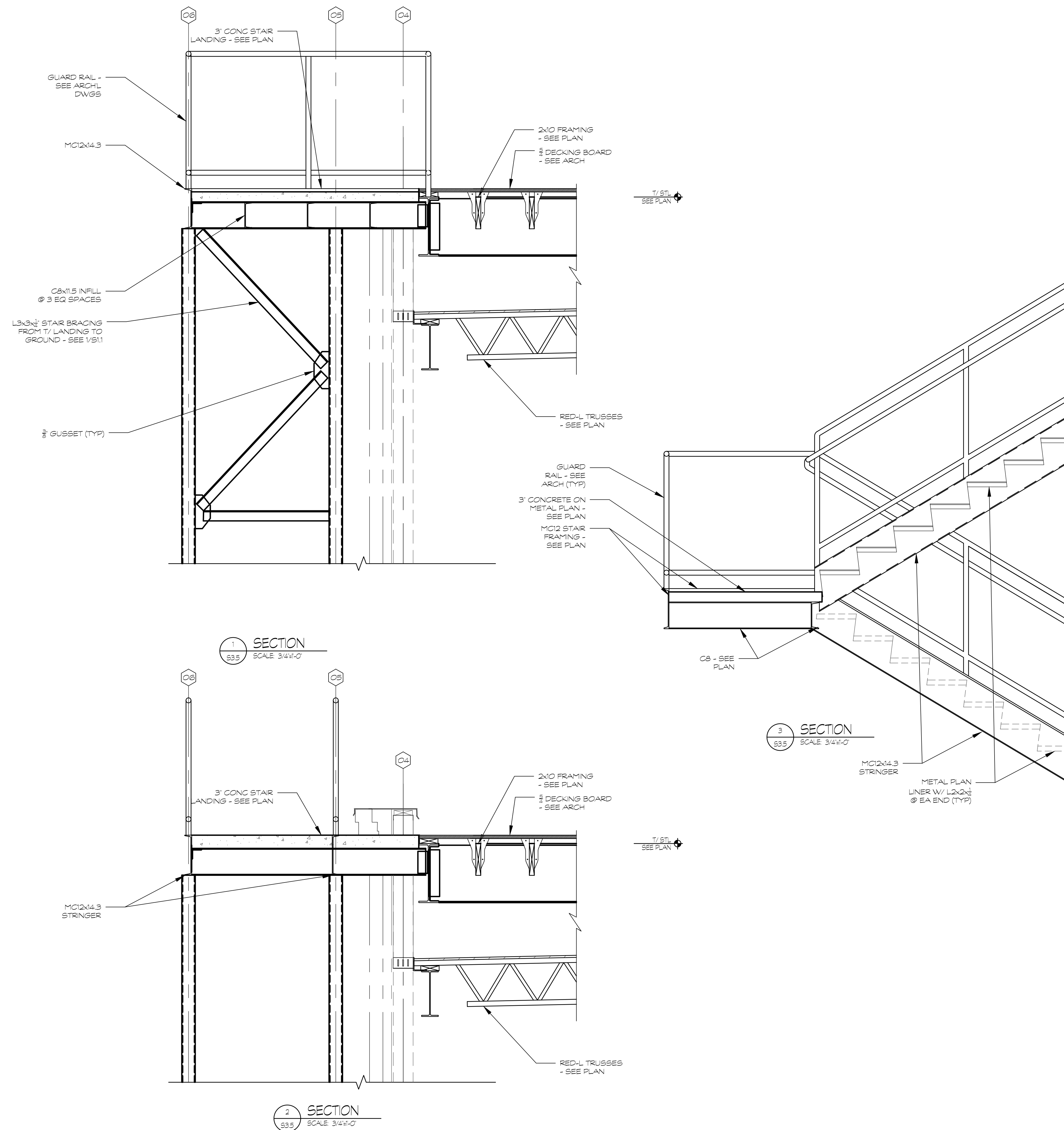


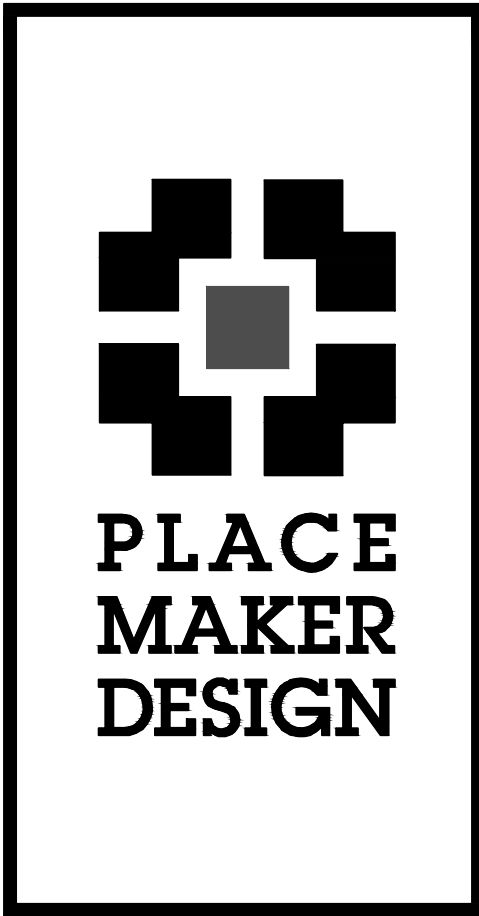
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DETAILS

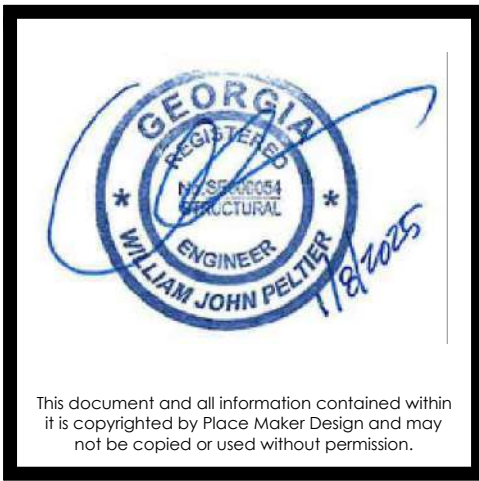
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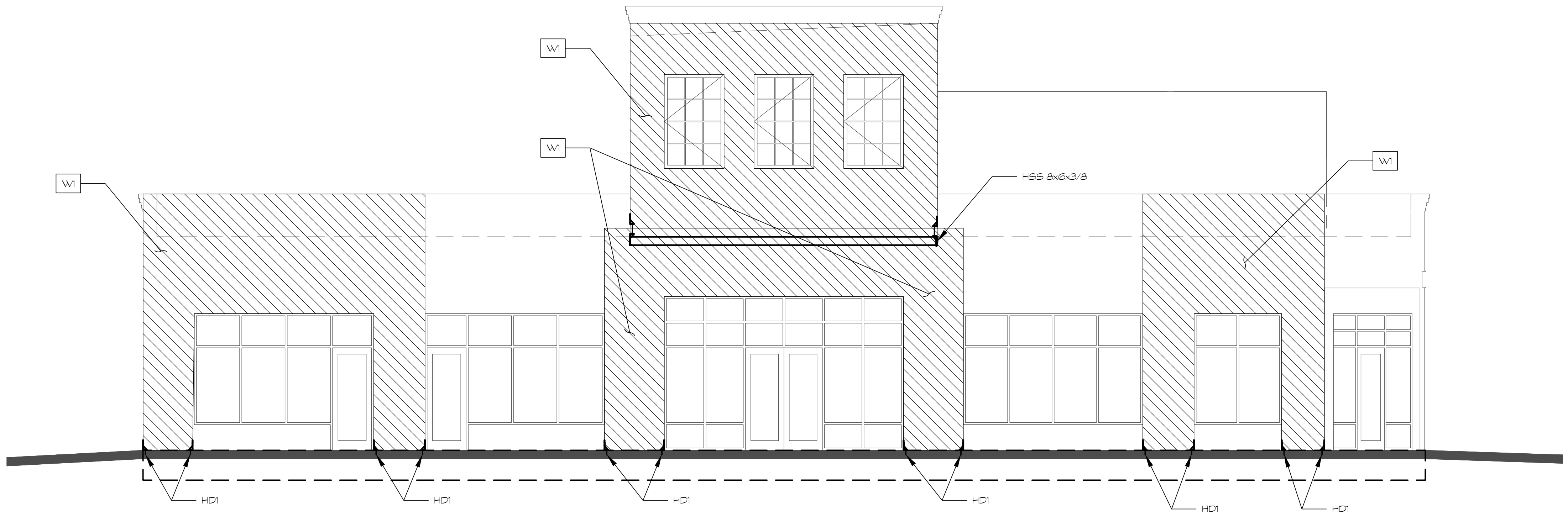
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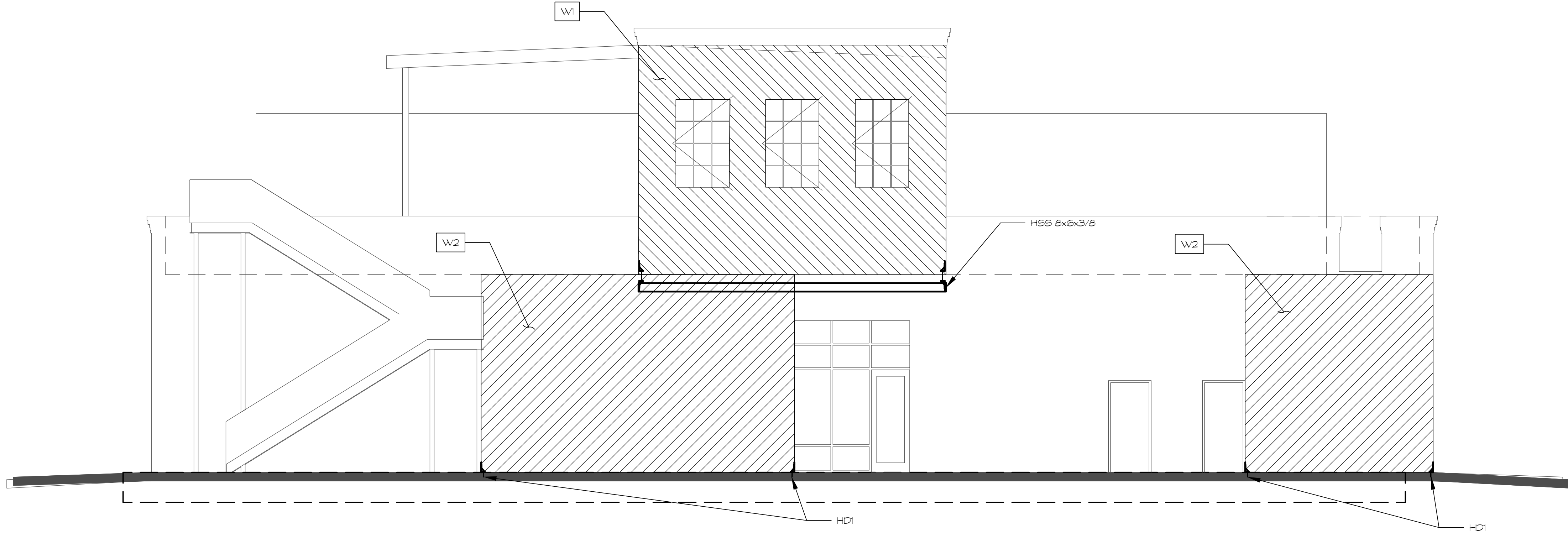
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SHEET TITLE
SHEARWALL
ELEVATIONS

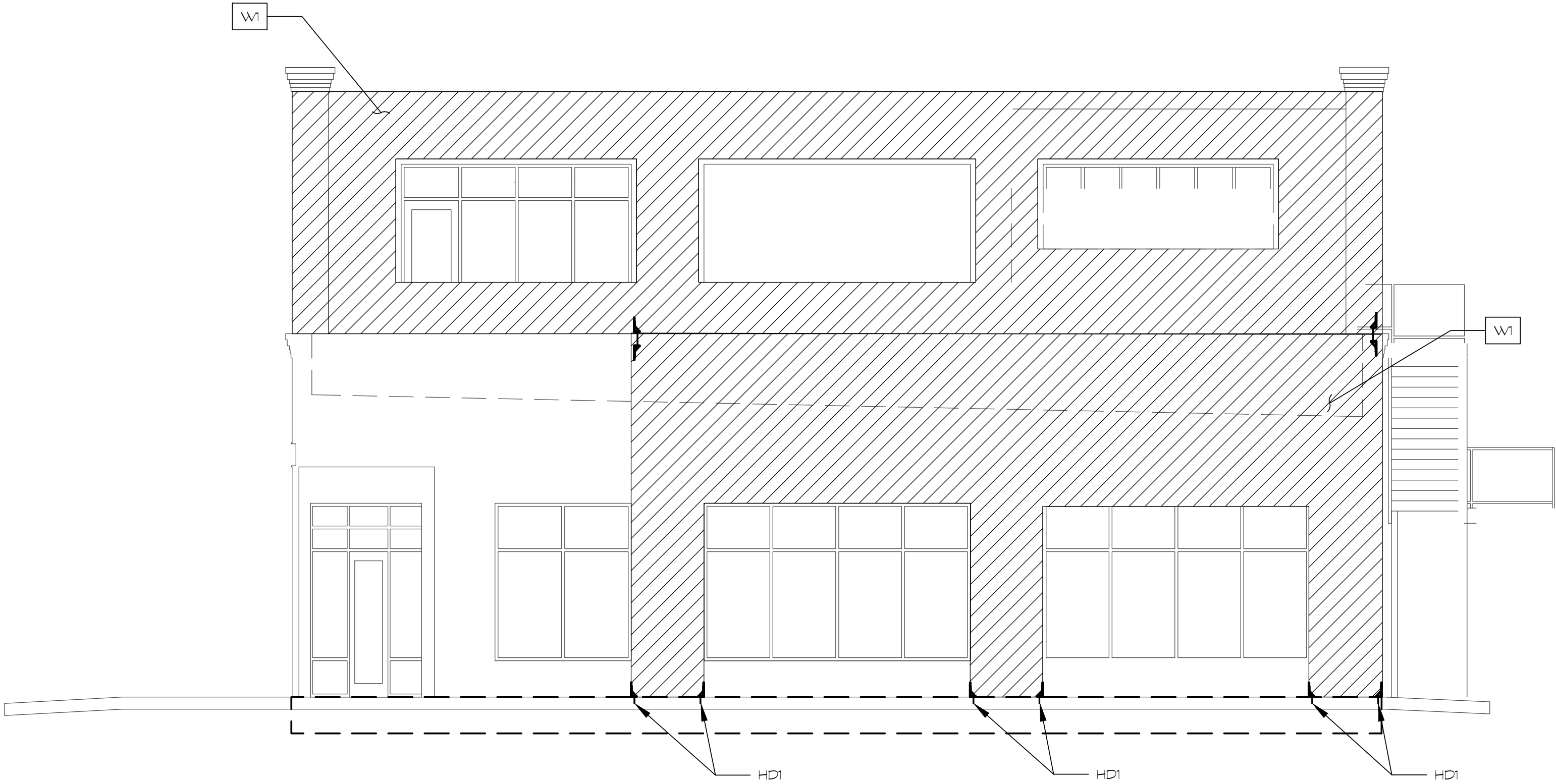
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S4.1



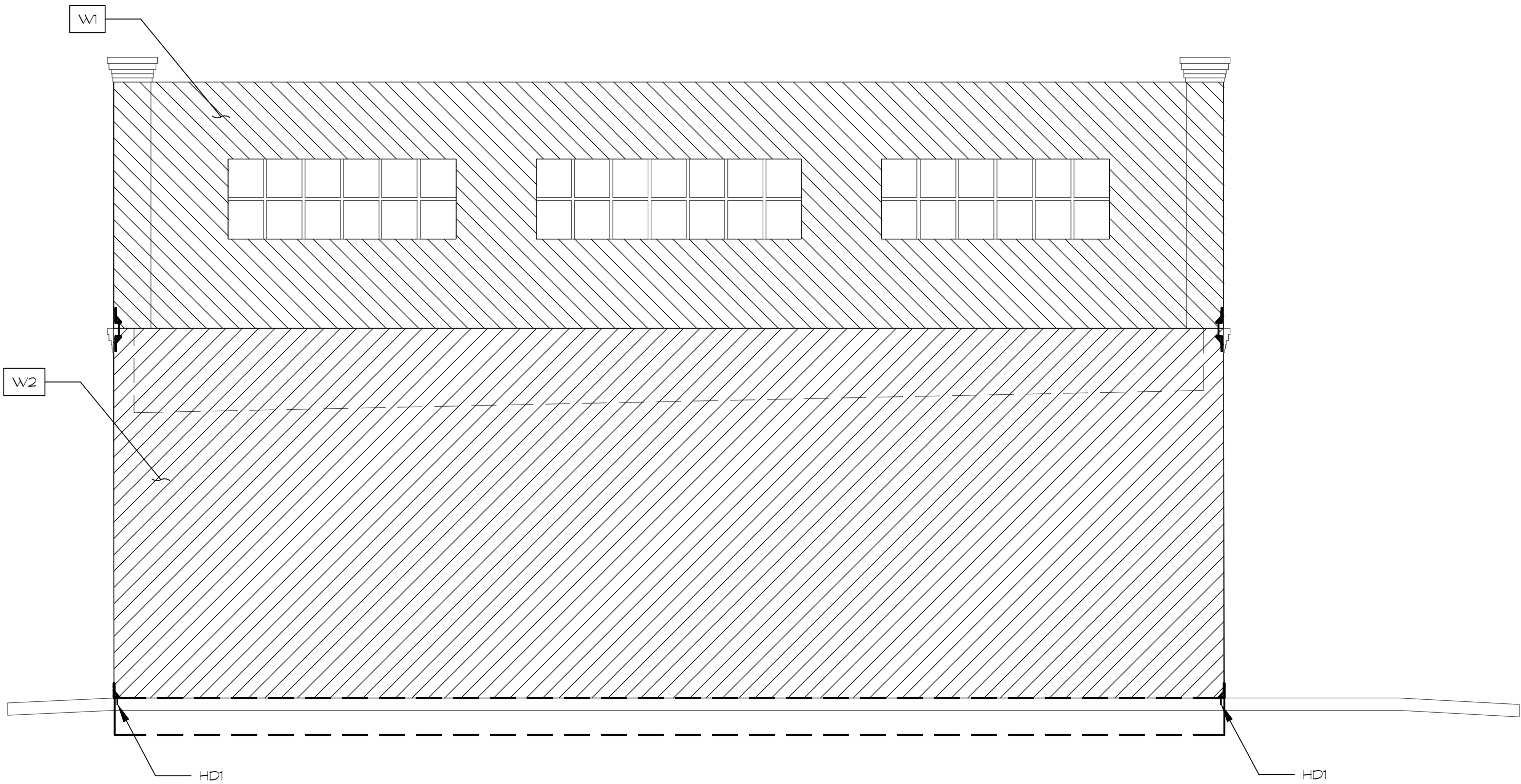
1 FRONT ELEVATION
S4.1 SCALE: 3/8"=1'-0"
SEE S4.3 FOR SHEARWALL SCHEDULE



1 BACK ELEVATION
S4.1 SCALE: 3/8"=1'-0"
SEE S4.3 FOR SHEARWALL SCHEDULE



1
S4.2 RIGHT ELEVATION
SCALE: 3/16" = 1'-0"
SEE S4.3 FOR SHEARWALL SCHEDULE

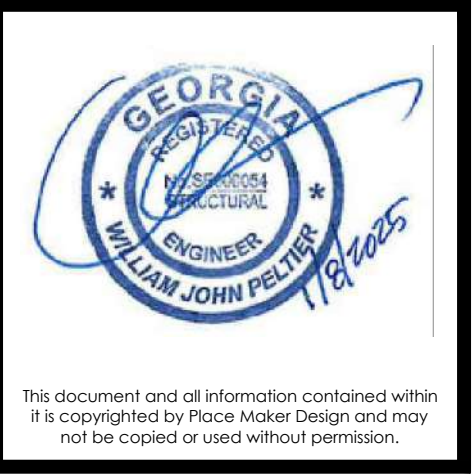


1
S4.2 LEFT ELEVATION
SCALE: 3/16" = 1'-0"
SEE S4.3 FOR SHEARWALL SCHEDULE



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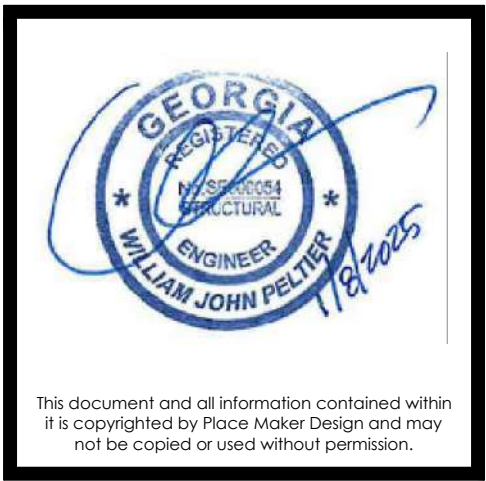
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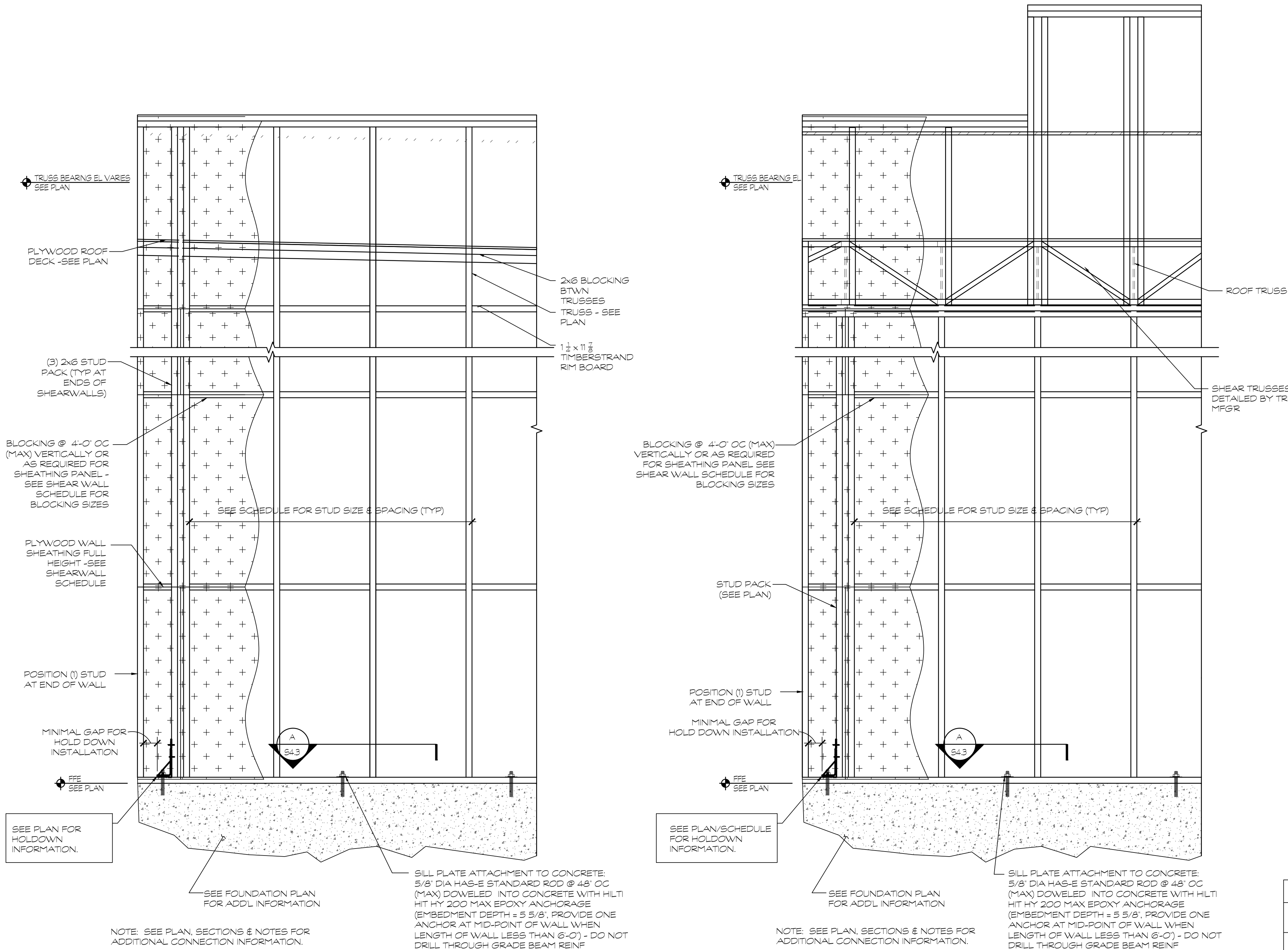


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SHEET TITLE
TYPICAL
SHEARWALL
ELEVATIONS &
DETAILS

SHEET #
S4.3

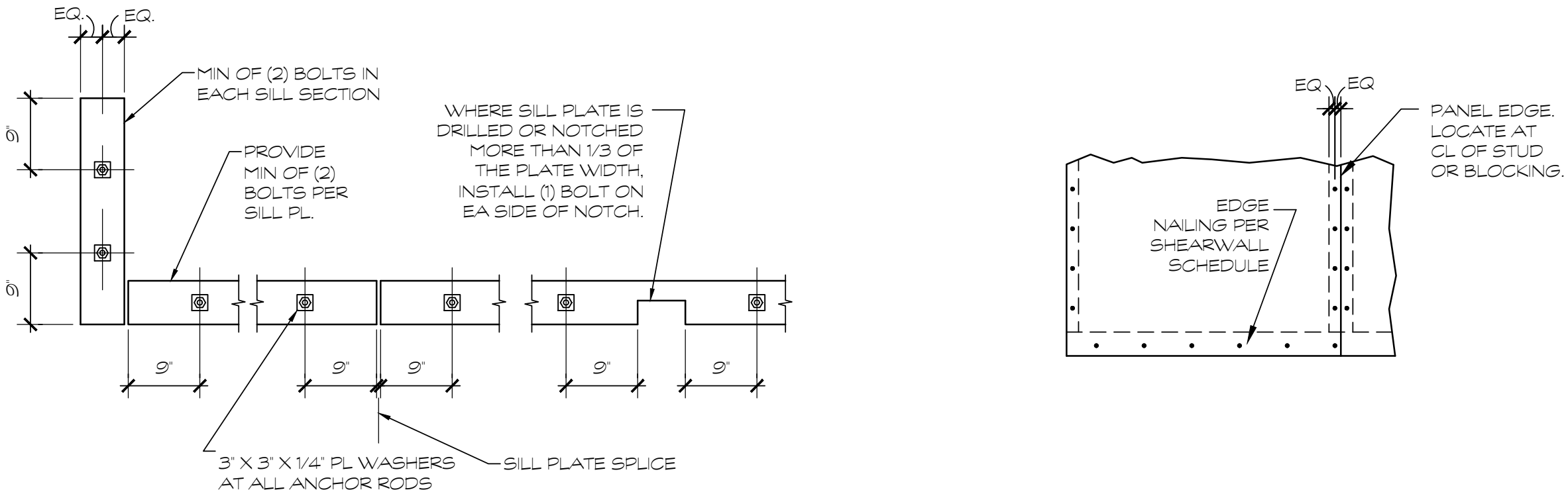


METAL STUD SHEAR WALL SCHEDULE								
	DESCRIPTION	STUD SIZE & SPACING	SHEATHING	EDGE SHEATHING ATTACHMENTS	FIELD (INTERIOR) SHEATHING ATTACHMENTS	BOT/ PLATE	BLOCKING	REMARKS
W1	NON LOAD BEARING EXTERIOR SHEARWALL	600S162-43 @ 16" OC (MAX)	7/16" - OSB (FRT)	#8 TEK SCREW @ 4" OC	#8 TEK SCREW @ 12" OC	600S162-43	METAL STRAPPING	1/34.3 & A/S4.3 USE HD2 AT WALL ENDS
W2	NON LOAD BEARING EXTERIOR SHEARWALL	600S162-43 @ 16" OC (MAX)	7/16" - OSB (FRT)	#8 TEK SCREW @ 6" OC	#8 TEK SCREW @ 12" OC	600S162-43	METAL STRAPPING	1/34.3 & A/S4.3 USE HD1 AT WALL ENDS

- NOTES:
- ALL SHEATHING TO BE FIRE RETARDANT TREATED (FRT)
 - UNO ALL SHEARWALLS NOT CONNECTING TO A STEEL COLUMN SHALL HAVE A 2-PLY 600S162-43 STUD PACK AT EA END.

3 S4.3 SCALE: NTS

SHEAR WALL SCHEDULE



A S4.3 SCALE: 3/4" = 1'-0"

TYPICAL SILL PLATE BOLTING

B S4.3 SCALE: 3/4" = 1'-0"

TYPICAL SHEARWALL EDGE NAILING

REV #	DATE	DESCRIPTION

**21 LEAKE STREET
BUILDING 01**
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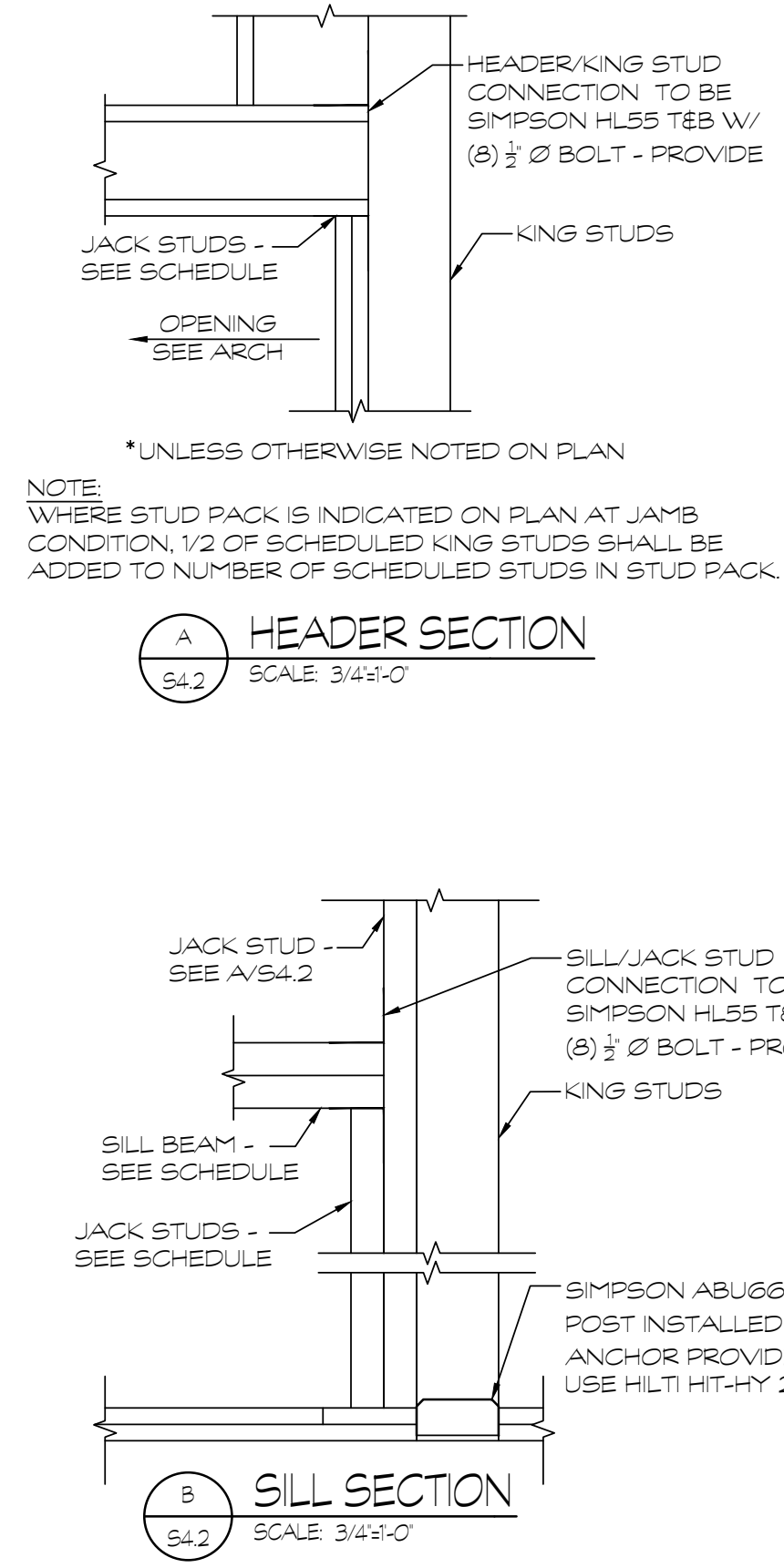
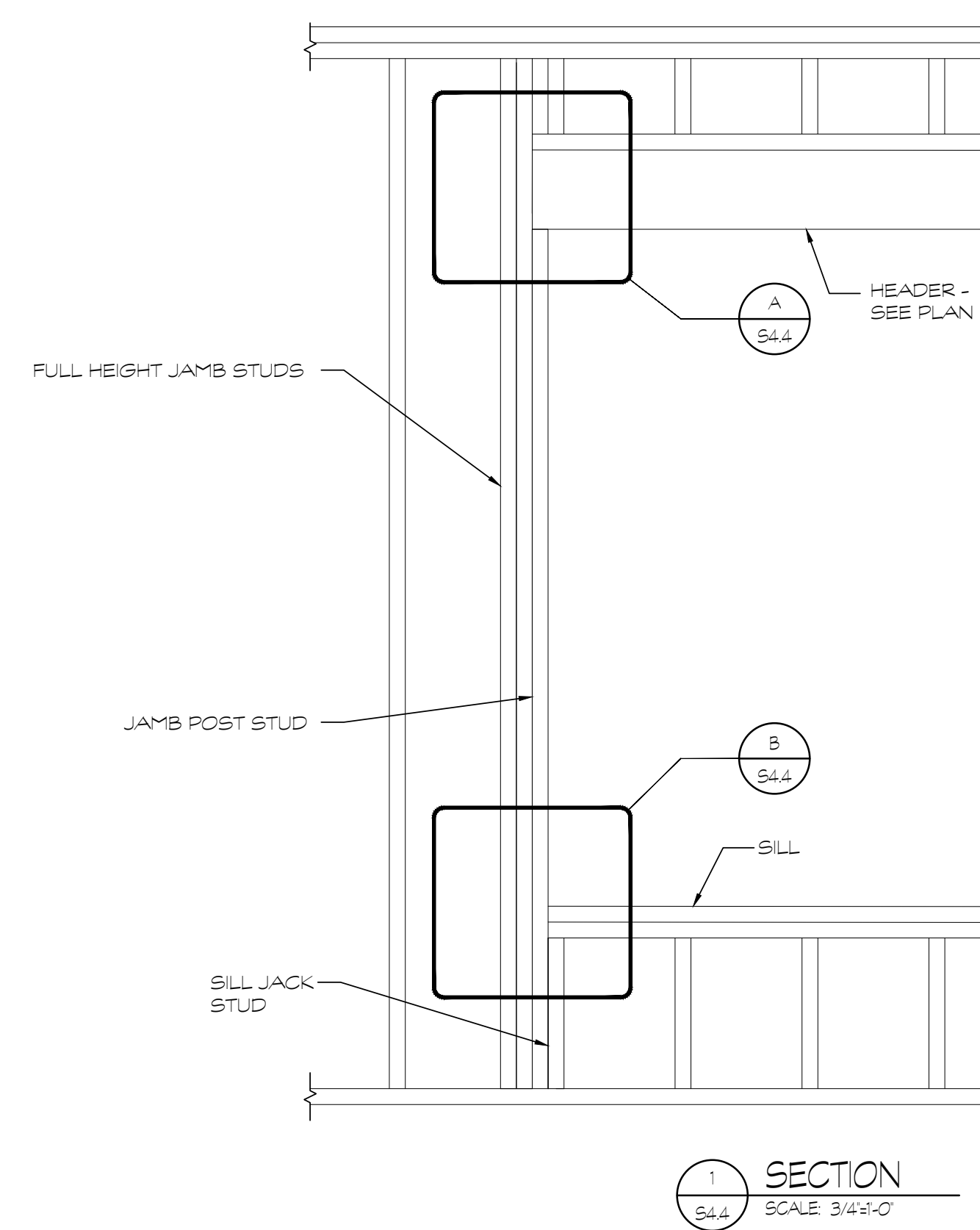


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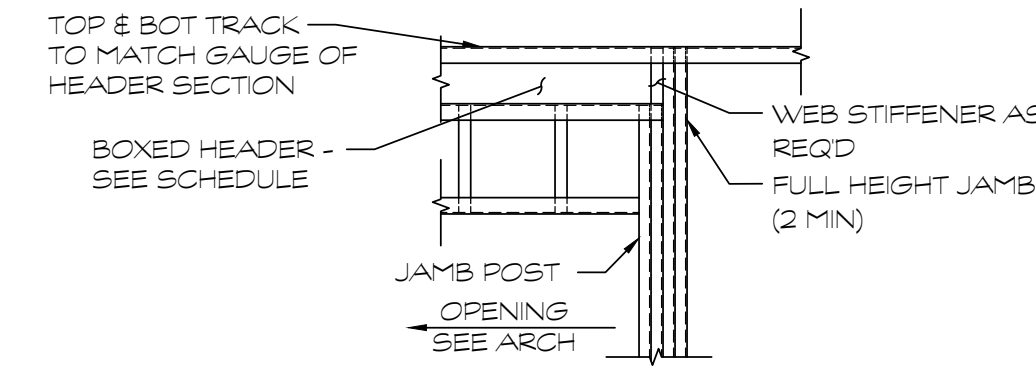
**TYPICAL
ELEVATIONS &
DETAILS**

S4.4



TYP NON LOAD BEARING M.S. HEADER SCHEDULE

SPAN OF OPENING	MINIMUM NO. & SIZE HEADER DEEP MEMBERS	MINIMUM SIZE JAMB STUDS	# OF FULL HEIGHT JAMB STUDS	# OF JAMB POST STUDS
0 - 4'	(2) 600S137-43 LLV	600S137-43	2	2
OVER 4' - 8'	(2) 600S137-43 LLV	600S137-43	2	3
OVER 8'-12'	(2) 600S137-43 LLV	600S200-43	3	3
OVER 8'-12'	(2) 600S200-43 LLV	600S200-43	3	3



NOTE:
1. PROVIDE WEB STIFFENER(S) AS REQ'D PER MANUFACTURERS SPECIFICATIONS.
2. EACH HEADER SHALL HAVE 600T200-43 AT THE T&B AND SHALL BE CONNECTED W/ #12 SCREWS @ 12" OC TO THE VERTICAL MEMBERS LISTED ABOVE TO FORM A BOX-BEAM.

LOOSE LINTEL SCHEDULE

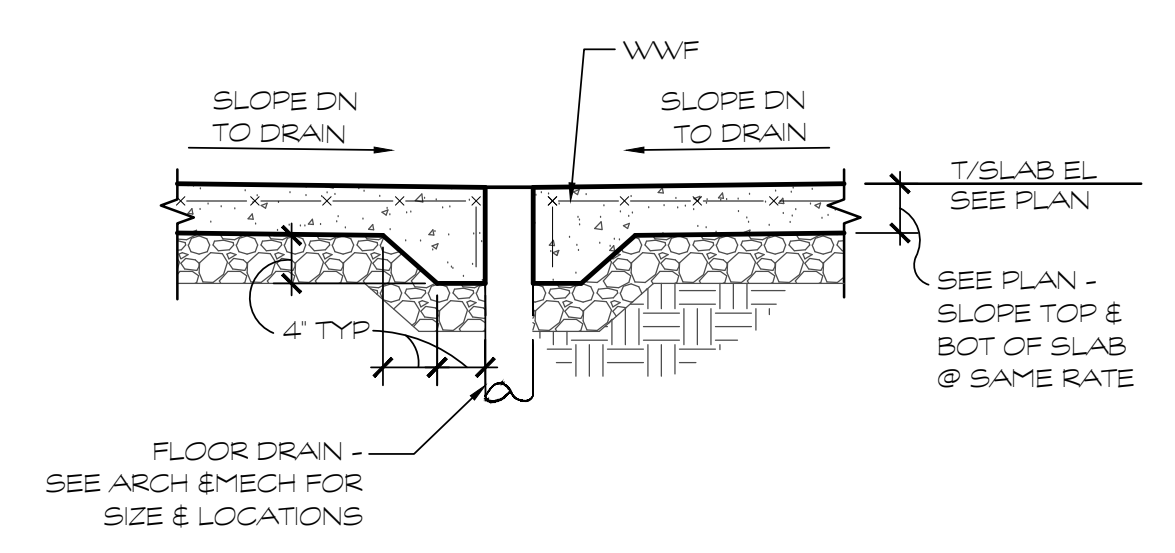
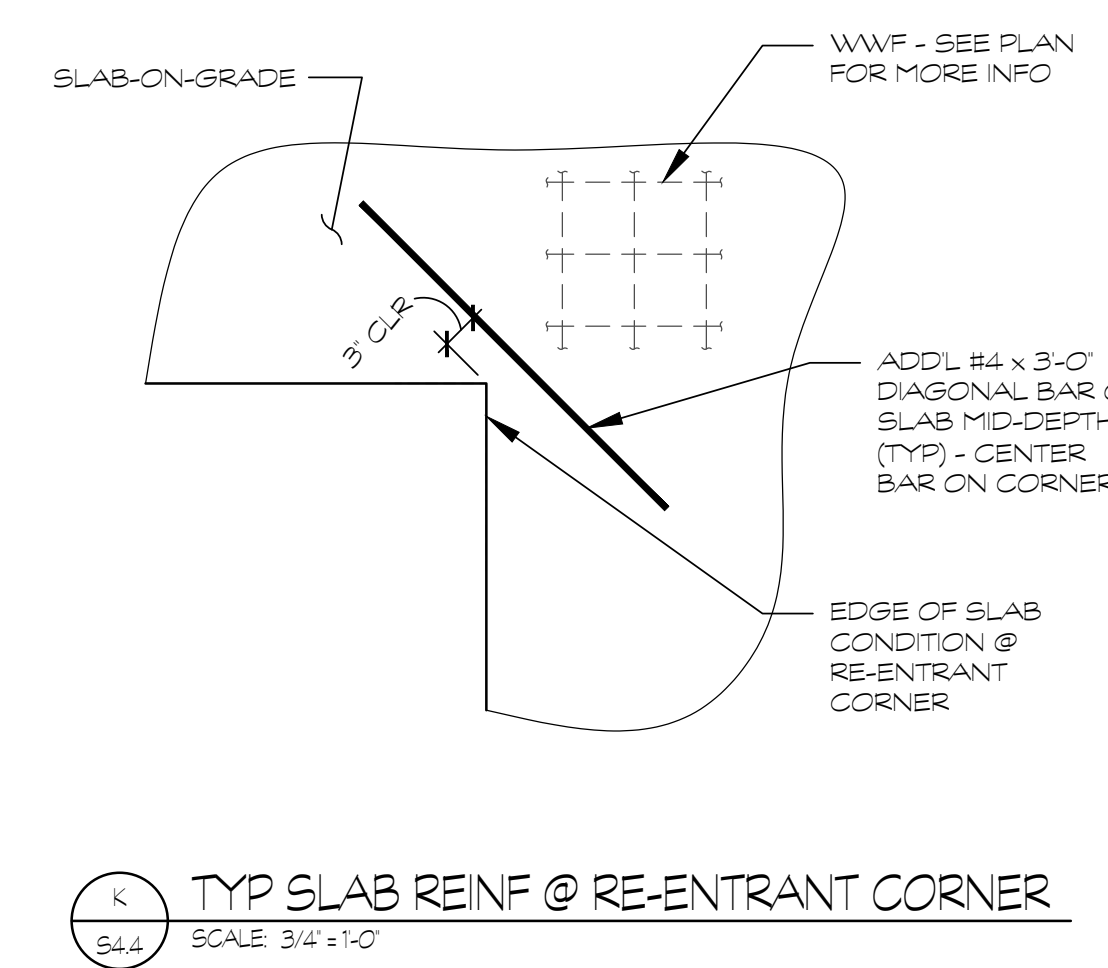
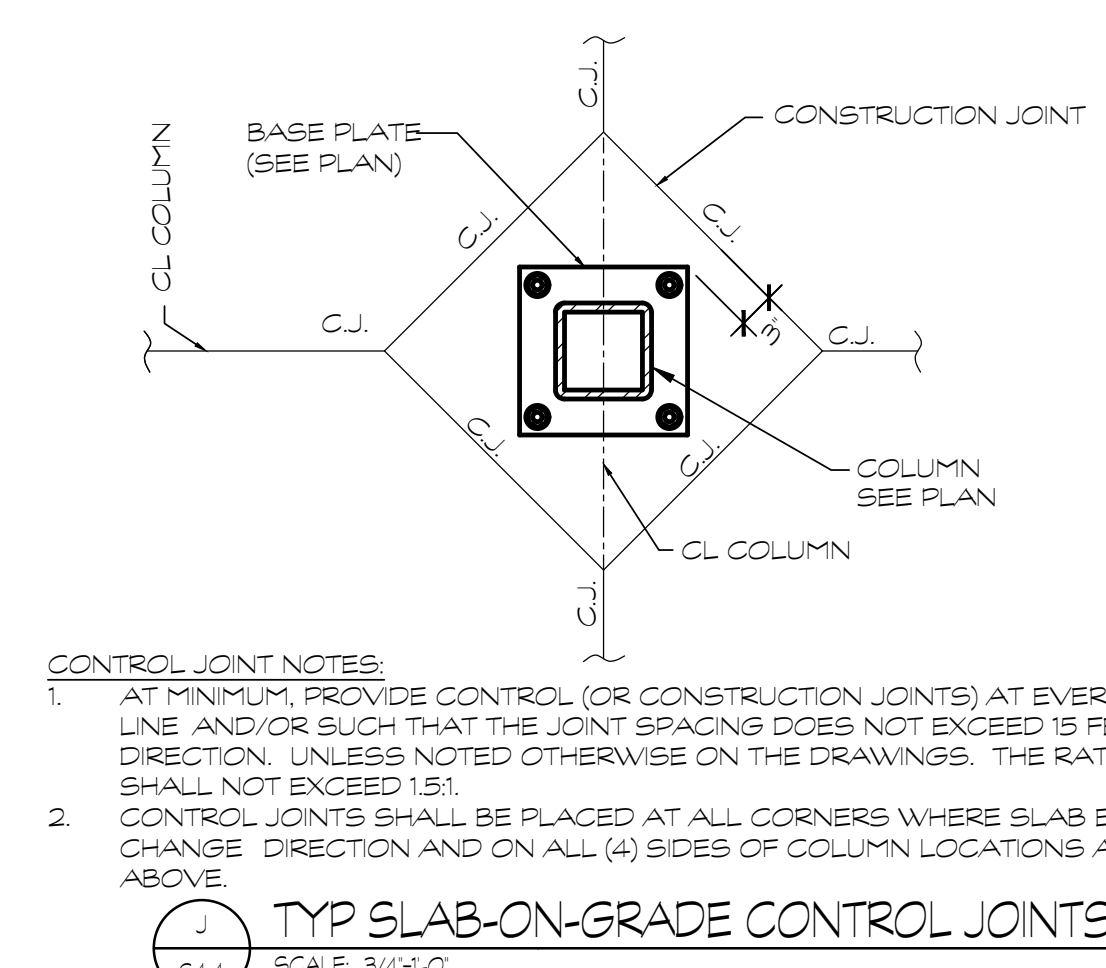
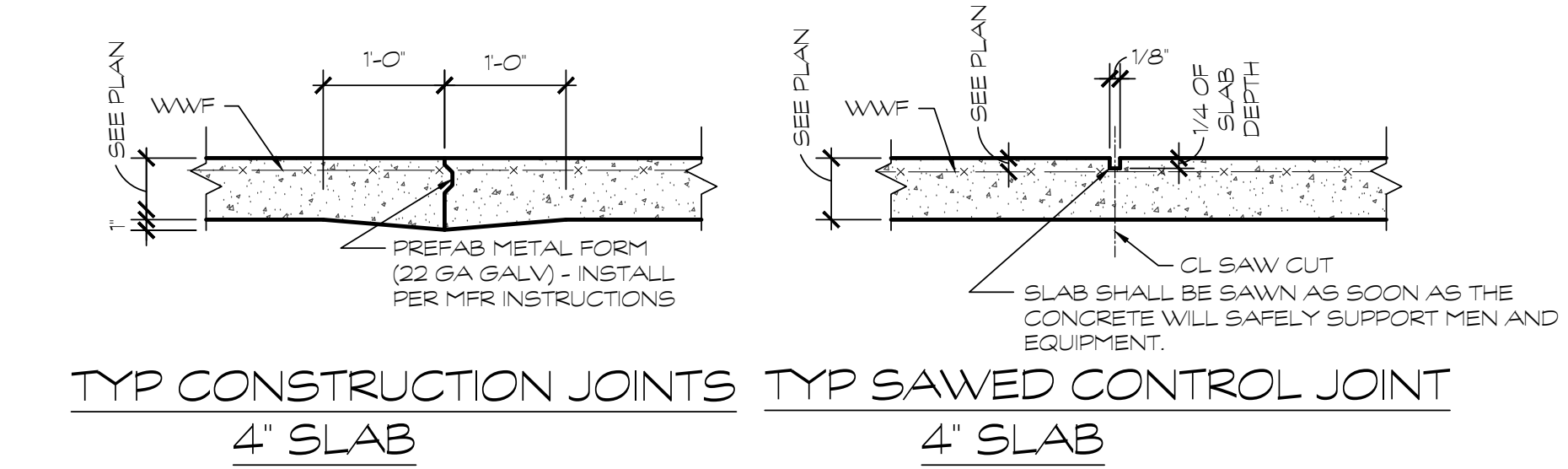
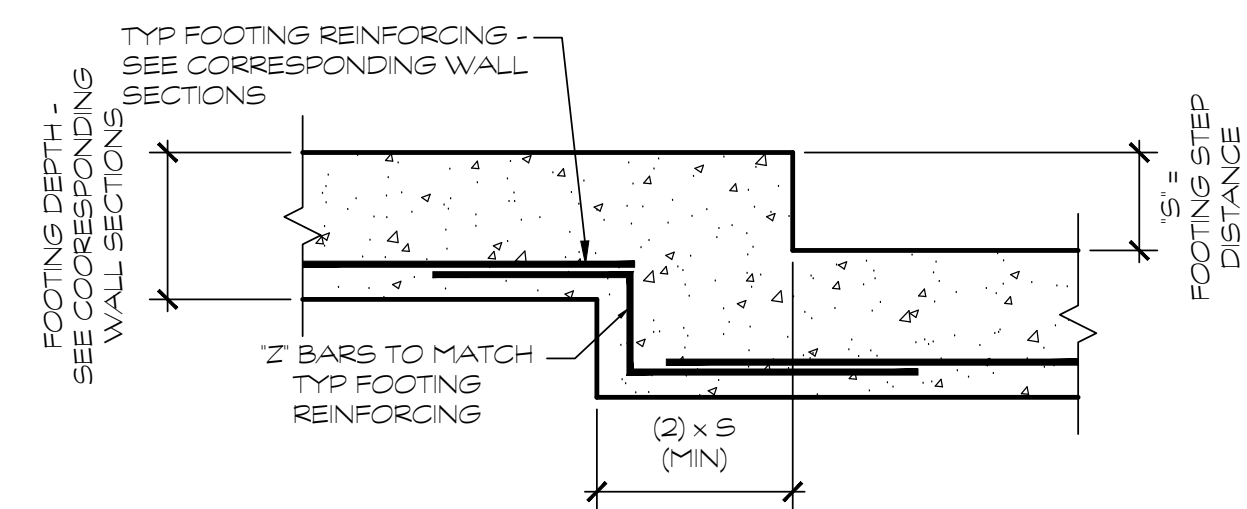
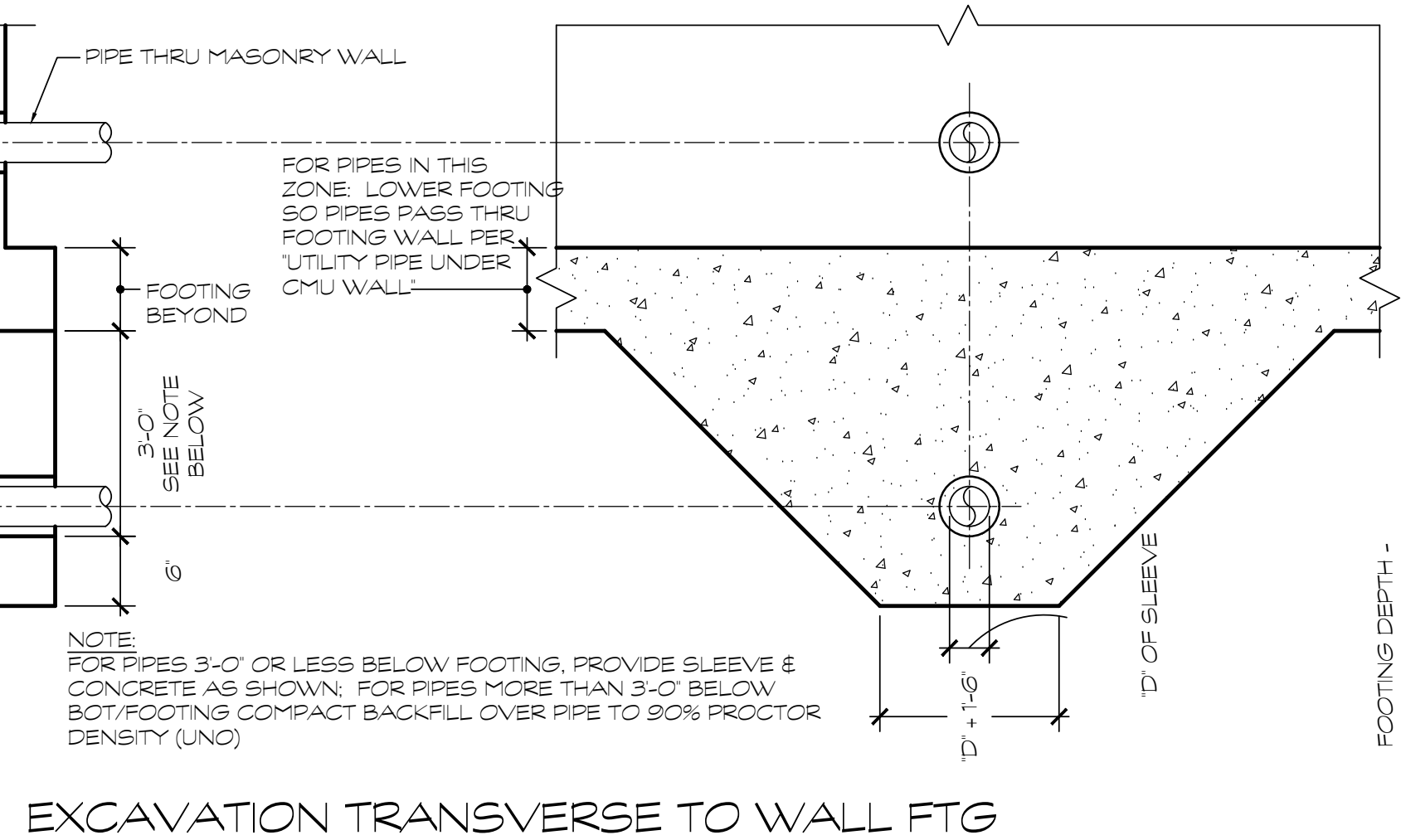
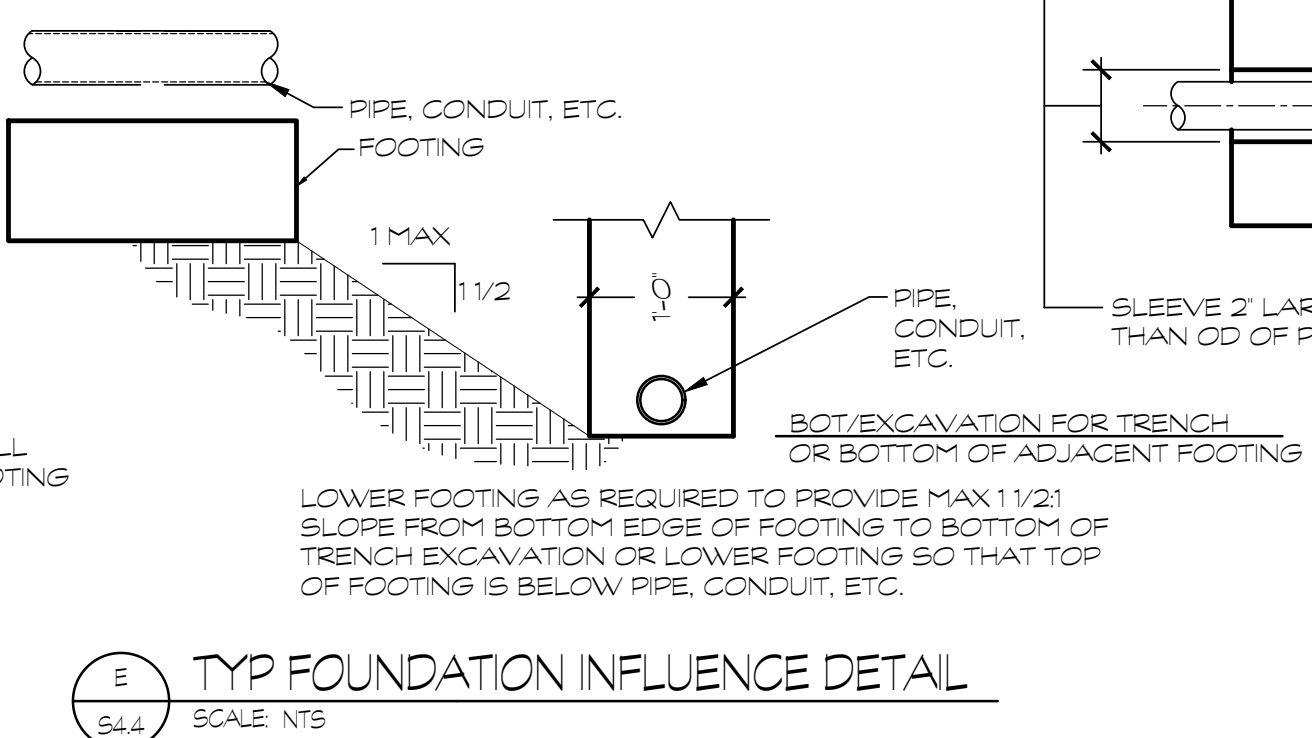
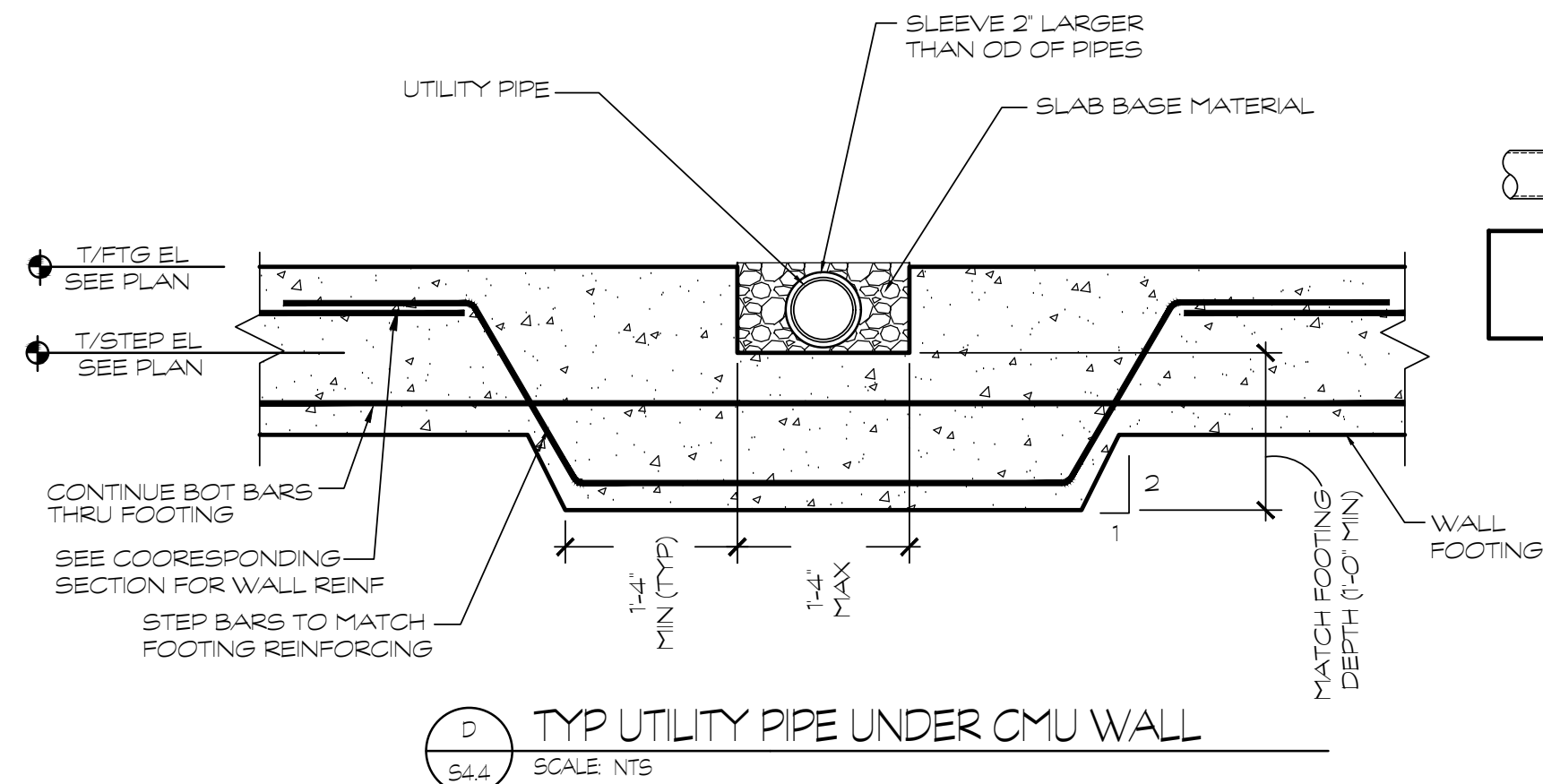
OPENING WIDTH		GALV STEEL LOOSE LINTELS
MIN.	MAX.	*STEEL FOR EACH 4" WALL THICKNESS
-	3'-6"	L5 x 3 1/2 x 5/16 (SLV)
3'-7"	6'-6"	L5 x 5 x 3/8
6'-7"	12'-0"	8 x 5 x 3/8 (LLV) BENT PL

NOTES:
1. THIS SCHEDULE TO BE USED UNLESS NOTED OTHERWISE.
2. 8" (MIN) BEARING EACH END FOR LOOSE LINTEL.

WALL LINTEL SCHEDULE
S4.1
SCALE: NTS

SILL BEAM SCHEDULE

SPAN OF OPENING	SIZE
0' - 4'	800T200-43 & (1) JACK STUD @ EA SIDE
4' - 6'	(2) 800T200-43 W/ 800S162-43 & (1) JACK STUD @ EA SIDE
OVER 6' - 0'	(3) 800T200-43 W/ (2) 800S162-43 & (2) JACK STUD @ EA SIDE



NOTE: USE CONSTRUCTION JOINT IN LIEU OF CONTROL JOINT WHENEVER A FOUR STOP IS REQUIRED OR WHERE INDICATED ON THE PLAN.

- CONTROL JOINT NOTES:**
- AT MINIMUM, PROVIDE CONTROL (OR CONSTRUCTION JOINTS) AT EVERY COLUMN LINE AND/OR SUCH THAT THE JOINT SPACING DOES NOT EXCEED 15 FEET IN EACH DIRECTION. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE RATIO OF SIDES SHALL NOT EXCEED 1.5:1.
 - CONTROL JOINTS SHALL BE PLACED AT ALL CORNERS WHERE SLAB EDGES CHANGE DIRECTION AND ON ALL (4) SIDES OF COLUMN LOCATIONS AS SHOWN ABOVE.

SPECIFICATIONS

SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.
SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.
TEST AND BALANCE:
TEST AND BALANCE (TAB) CONTRACTOR SHALL HOLD A CURRENT NATIONAL BALANCING COUNCIL (NBC) CERTIFICATION AND POSSESS ACCURATE AND CALIBRATED INSTRUMENTS. TAB WORK AND REPORTS SHALL BE PER NBC PRACTICAL STANDARDS, PROCEDURES AND FORMS. ACCEPTABLE ALTERNATIVE TAB FIRM CERTIFICATIONS/PROCEDURES: NEBB, AABC, OR TABB.
PRIOR TO COMMENCEMENT OF THE TAB WORK, THE MECHANICAL SYSTEMS ARE TO BE STARTED AND FULLY FUNCTIONING. A CHECKLIST PRIOR TAB WORK IS TO BE SENT TO THE INSTALLING CONTRACTOR AND RETURNED ATTESTING TO THE READINESS OF THE SYSTEMS FOR BALANCING.
PREFERRED TAB FIRM: P-TAB.COM
<u>GUARANTEE:</u>
GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.
GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.
GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
<u>GENERAL NOTES:</u>
REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.
PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.
ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.
MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.
PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.
ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.
ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.
SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.
CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLEARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.
<u>DUCTWORK AND ACCESSORIES:</u>
INDUSTRY STANDARDS: COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.
COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.
DUCTWORK METAL AND GAUGES: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.
DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.
DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.
EXPPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.
VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE-WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH DUCT INSULATION BELOW.
DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE SHALL BE THERMADUCT PRODUCTS OR COVERED WITH 3M VENTURECLAD JACKETING, OR EQUAL PRODUCT, AND SEALED WEATHER-TIGHT.
<u>DUCT INSULATION:</u>
R-6 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN CONDITIONED AND UNCONDITIONED SPACES
R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING
R-8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

SPECIFICATIONS

ROOFTOP UNITS:
GENERAL OUTDOOR, ROOFTOP MOUNTED, ELECTRICALLY CONTROLLED, HEATING AND COOLING UNIT UTILIZING A FULLY HERMETIC SCROLL COMPRESSOR(S) FOR COOLING DUTY AND GAS COMBUSTION FOR HEATING DUTY. FACTORY ASSEMBLED, SINGLE-PIECE HEATING AND COOLING ROOFTOP UNIT, CONTAINED WITHIN THE UNIT ENCLOSURE SHALL BE ALL FACTORY WIRING, PIPING, CONTROLS, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START-UP. UNIT SHALL USE ENVIRONMENTALLY SOUND, PURON® REFRIGERANT. UNIT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. UNIT MUST BE SELECTED AND INSTALLED IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL CODES.
UNIT CABINET UNIT CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, AND SHALL BE BONDERIZED AND COATED WITH A PRE-PAINTED BAKED ENAMEL FINISH ON ALL EXTERNALLY EXPOSED SURFACES.
STANDARD HEAT EXCHANGER CONSTRUCTION HEAT EXCHANGER SHALL BE OF THE TUBULAR-SECTION TYPE CONSTRUCTED OF A MINIMUM OF 20-GAUGE STEEL COATED WITH A NOMINAL 1.2 MIL ALUMINUM-SILICONE ALLOY FOR CORROSION RESISTANCE. BURNERS SHALL BE OF THE IN-SHOT TYPE CONSTRUCTED OF ALUMINUM-COATED STEEL. BURNERS SHALL INCORPORATE ORIFICES FOR RATED HEAT OUTPUT UP TO 2000 FT (610M) ELEVATION. ADDITIONAL ACCESSORY KITS MAY BE REQUIRED FOR APPLICATIONS ABOVE 2000 FT (610M) ELEVATION, DEPENDING ON LOCAL GAS SUPPLY CONDITIONS. EACH HEAT EXCHANGER TUBE SHALL CONTAIN MULTIPLE DIMPLES FOR INCREASED HEATING EFFECTIVENESS.
STANDARD ALUMINUM/COPPER COILS: STANDARD EVAPORATOR AND CONDENSER COILS SHALL HAVE ALUMINUM LANCED PLATE FINS MECHANICALLY BONDED TO SEAMLESS INTERNALLY GROOVED COPPER TUBES WITH ALL JOINTS BRAZED. EVAPORATOR COILS SHALL BE LEAK TESTED TO 150 PSIG, PRESSURE TESTED TO 450 PSIG, AND QUALIFIED TO UL 1995 BURST TEST AT 1775 PSIG. CONDENSER COILS SHALL BE LEAK TESTED TO 150 PSIG, PRESSURE TESTED TO 650 PSIG, AND QUALIFIED TO UL 1995 BURST TEST AT 1980 PSIG.
COMPRESSORS UNIT SHALL USE FULLY HERMETIC, SCROLL COMPRESSOR FOR EACH INDEPENDENT REFRIGERATION CIRCUIT.
FILTER SECTION FILTERS ACCESS IS SPECIFIED IN THE UNIT CABINET SECTION OF THIS SPECIFICATION. FILTERS SHALL BE HELD IN PLACE BY A PIVOTING FILTER TRAY, FACILITATING EASY REMOVAL AND INSTALLATION. UNIT SHALL CONSIST OF FACTORY-INSTALLED, LOW VELOCITY, THROW-AWAY 2-IN. THICK FIBERGLASS FILTERS. FILTERS SHALL BE STANDARD, COMMERCIALY AVAILABLE SIZES.
EVAPORATOR FAN AND MOTOR EVAPORATOR FAN MOTOR: SHALL HAVE PERMANENTLY LUBRICATED BEARINGS. SHALL HAVE INHERENT AUTOMATIC-RESET THERMAL OVERLOAD PROTECTION OR CIRCUIT BREAKER. SHALL HAVE A MAXIMUM CONTINUOUS BHP RATING FOR CONTINUOUS DUTY OPERATION; NO SAFETY FACTORS ABOVE THAT RATING SHALL BE REQUIRED. BELT-DRIVEN EVAPORATOR FAN: BELT DRIVE SHALL INCLUDE AN ADJUSTABLE-PITCH MOTOR PULLEY. SHALL USE SEALED, PERMANENTLY LUBRICATED BALL-BEARING TYPE. BLOWER FAN SHALL BE DOUBLE-INLET TYPE WITH FORWARD-CURVED BLADES. SHALL BE CONSTRUCTED FROM STEEL WITH A CORROSION RESISTANT FINISH AND DYNAMICALLY BALANCED.
CONDENSER FANS AND MOTORS CONDENSER FAN MOTORS: SHALL BE A TOTALLY ENCLOSED MOTOR. SHALL USE PERMANENTLY LUBRICATED BEARINGS. SHALL HAVE INHERENT THERMAL OVERLOAD PROTECTION WITH AN AUTOMATIC RESET FEATURE. SHALL USE A SHAFT-DOWN DESIGN ON 04 TO 12 MODELS AND SHAFT-UP ON 14 SIZE WITH RAIN SHIELD. CONDENSER FANS: SHALL BE A DIRECT-DRIVEN PROPELLER TYPE FAN. SHALL HAVE ALUMINUM BLADES RIVETED TO CORROSION-RESISTANT STEEL SPIDERS AND SHALL BE DYNAMICALLY BALANCED.
ACCESSORIES: REFER TO THE EQUIPMENT SCHEDULE FOR A COMPLETE LISTING OF REQUIRED ACCESSORIES.
SMOKE DETECTORS: SHALL BE A FOUR-WIRE CONTROLLER AND DETECTOR. SHALL BE ENVIRONMENTAL COMPENSATED WITH DIFFERENTIAL SENSING FOR RELIABLE, STABLE, AND DRIFT-FREE SENSITIVITY. SHALL USE MAGNET-ACTIVATED TEST/RESET SENSOR SWITCHES. SHALL HAVE TOOL-LESS CONNECTION TERMINAL ACCESS. SHALL HAVE A RECESSED MOMENTARY SWITCH FOR TESTING AND RESETTING THE DETECTOR. CONTROLLER SHALL INCLUDE: (1.) ONE SET OF NORMALLY OPEN ALARM INITIATION CONTACTS FOR CONNECTION TO AN INITIATING DEVICE CIRCUIT ON A FIRE ALARM CONTROL PANEL. (2.) TWO FORM-C AUXILIARY ALARM RELAYS FOR INTERFACE WITH ROOFTOP UNIT OR OTHER EQUIPMENT. (3.) ONE FORM-C SUPERVISION (TROUBLE) RELAY TO CONTROL THE OPERATION OF THE TROUBLE LED ON A REMOTE TEST/RESET STATION. (4.) CAPABLE OF DIRECT CONNECTION TO TWO INDIVIDUAL DETECTOR MODULES. (5.) CAN BE WIRED TO UP TO 14 OTHER DUCT SMOKE DETECTORS FOR MULTIPLE FAN SHUTDOWN APPLICATIONS
THERMOSTATS: ELECTRIC, SOLID-STATE, MICROCOMPUTER-BASED ROOM THERMOSTAT. AUTOMATIC SWITCHING FROM HEATING TO COOLING. PREFERENTIAL RATE CONTROL TO MINIMIZE OVERSHOOT AND DEVIATION FROM SET POINT. SET UP FOR FOUR SEPARATE TEMPERATURES PER DAY. INSTANT OVERRIDE OF SET POINT FOR CONTINUOUS OR TIMED PERIOD FROM 1 HOUR TO 31 DAYS. SHORT-CYCLE PROTECTION. PROGRAMMING BASED ON EVERY DAY OF WEEK. SELECTION FEATURES INCLUDE DEGREE F DISPLAY, 12- OR 24-HOUR CLOCK, KEYBOARD DISABLE, REMOTE SENSOR, AND FAN ON-AUTO. BATTERY REPLACEMENT WITHOUT PROGRAM LOSS. THERMOSTAT DISPLAY FEATURES INCLUDE THE FOLLOWING: TIME OF DAY. ACTUAL ROOM TEMPERATURE. PROGRAMMED TEMPERATURE. PROGRAMMED TIME. DURATION OF TIMED OVERRIDE. DAY OF WEEK. SYSTEM MODE INDICATIONS INCLUDE "HEATING," "OFF," "FAN AUTO," AND "FAN ON."
ELECTRIC HEAT: HEATER ELEMENT OPEN COIL RESISTANCE WIRE, NICKEL-CHROME ALLOY, 0.29 INCHES INSIDE DIAMETER, STRUNG THROUGH CERAMIC INSULATORS MOUNTED ON METAL FRAME. COIL ENDS ARE STAKED AND WELDED TO TERMINAL SCREW SLOTS.
HEATER ASSEMBLIES ARE PROVIDED WITH INTEGRAL FUSING FOR PROTECTION OF INTERNAL HEATER CIRCUITS NOT EXCEEDING 48 AMPS EACH. AUTO RESET THERMO LIMIT CONTROLS, MAGNETIC HEATER CONTACTORS (24 V COIL) AND TERMINAL BLOCK ALL MOUNTED IN ELECTRIC HEATER CONTROL BOX (MINIMUM 18 GA GALVANIZED STEEL) ATTACHED TO END OF HEATER ASSEMBLY.

SPECIFICATIONS

GAS FURNACE:
FURNISH A SCHEDULED FIXED CAPACITY GAS--FIRED FURNACE FOR USE WITH NATURAL GAS OR PROPANE; FURNISH COLD AIR RETURN PLENUM; FURNISH EXTERNAL MEDIAL CABINET FOR USE WITH ACCESSORY MEDIA FILTER OR STANDARD FILTER.
QUALITY ASSURANCE: UNIT WILL BE DESIGNED, TESTED AND CONSTRUCTED TO THE CURRENT ANSI Z 21.47/CSA 2.3 DESIGN STANDARD FOR GAS--FIRED CENTRAL FURNACES. UNIT WILL BE 3RD PARTY CERTIFIED BY CSA TO THE CURRENT ANSI Z 21.47/CSA 2.3 DESIGN STANDARD FOR GAS--FIRED CENTRAL FURNACES. UNIT WILL CARRY THE CSA BLUE STARR AND BLUE FLAME® LABELS. UNIT EFFICIENCY TESTING WILL BE PERFORMED PER THE CURRENT DOE TEST PROCEDURE AS LISTED IN THE FEDERAL REGISTER. UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY AND LISTED IN THE LATEST GAMA CONSUMER'S DIRECTORY OF CERTIFIED EFFICIENCY RATINGS. UNIT SHALL CARRY THE CURRENT FEDERAL TRADE COMMISSION ENERGY GUIDE EFFICIENCY LABEL.
DELIVERY, STORAGE AND HANDLING: UNIT SHALL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.
COMPONENTS SHALL INCLUDE: SLOW--OPENING GAS VALVE TO REDUCE IGNITION NOISE, REGULATE GAS FLOW, WITH ELECTRIC SWITCH GAS SHUT--OFF; FLAME PROVING SENSOR, HOT SURFACE IGNITER, PRESSURE SWITCH ASSEMBLY, FLAME ROLLOUT SWITCH, BLOWER AND INDUCER ASSEMBLY, 40VA TRANSFORMER; DIGITAL LOW--VOLTAGE HEATING/COOLING THERMOSTAT.
BLOWER WHEEL AND BLOWER MOTOR: GALVANIZED BLOWER WHEEL SHALL BE CENTRIFUGAL TYPE, STATICALLY AND DYNAMICALLY BALANCED. BLOWER MOTOR OF PSC TYPE SHALL BE PERMANENTLY LUBRICATED WITH SEALED BEARINGS, AND SHALL BE MULTIPLE--SPEED DIRECT DRIVE. BLOWER MOTOR SHALL BE SOFT MOUNTED TO THE BLOWER SCROLL TO REDUCE VIBRATION TRANSMISSION.
FURNACE MAY HAVE REUSABLE FILTERS.
CASING SHALL BE OF .030 IN. THICKNESS MINIMUM, PRE--PAINTED GALVANIZED STEEL.
INDUCER MOTOR SHALL BE SOFT MOUNTED TO REDUCE VIBRATION TRANSMISSION.
DRAFT SAFEGUARD SWITCH SHALL BE FACTORY INSTALLED TO REDUCE THE POSSIBILITY OF VENT GAS INFILTRATION DUE TO A BLOCKED OR RESTRICTED VENT PIPE.
HEAT EXCHANGERS SHALL BE A 4-PASS 20 GAGE ALUMINIZED STEEL OF FOLD--AND--CRIMP SECTIONAL DESIGN WHEN APPLIED OPERATING UNDER NEGATIVE PRESSURE.
CONTROL SHALL INCLUDE A MICRO--PROCESSOR BASED INTEGRATED ELECTRONIC CONTROL BOARD WITH AT LEAST 11 SERVICE TROUBLESHOOTING CODES DISPLAYED VIA DIAGNOSTIC FLASHING LED LIGHT ON THE CONTROL, A SELF--TEST FEATURE THAT CHECKS ALL MAJOR FUNCTIONS OF THE FURNACE WITHIN ONE MINUTE, AND A REPLACEABLE AUTOMOTIVE--TYPE CIRCUIT PROTECTION FUSE; MULTIPLE OPERATIONAL SETTINGS AVAILABLE INCLUDING, SEPARATE BLOWER SPEEDS FOR HEATING, COOLING AND CONTINUOUS FAN, CONTINUOUS FAN SPEED MAY BE ADJUSTED FROM THE THERMOSTAT. COOLING AIRFLOW WILL BE SELECTABLE BETWEEN 350 OR 400 CFM PER TON OF AIR CONDITIONING.
<u>CONDENSER UNIT</u>
OUTDOOR--MOUNTED, AIR--COOLED, SPLIT--SYSTEM AIR CONDITIONER UNIT SUITABLE FOR GROUND OR ROOFTOP INSTALLATION. UNIT CONSISTS OF A HERMETIC COMPRESSOR, AN AIR--COOLED COIL, PROPELLER--TYPE CONDENSER FAN, AND A CONTROL BOX. UNIT WILL DISCHARGE SUPPLY AIR UPWARD AS SHOWN ON CONTRACT DRAWINGS. UNIT WILL BE USED IN A REFRIGERATION CIRCUIT TO MATCH UP TO A PACKAGED FAN COIL OR COIL UNIT.
QUALITY ASSURANCE: UNIT WILL BE RATED IN ACCORDANCE WITH THE LATEST EDITION OF AHRI STANDARD 210. UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY, AND LISTED IN THE LATEST AHRI DIRECTORY. UNIT CONSTRUCTION WILL COMPLY WITH LATEST EDITION OF ANSI/ASHRAE AND WITH NEC. UNIT WILL BE CONSTRUCTED IN ACCORDANCE WITH UL STANDARDS AND WILL CARRY THE UL LABEL OF APPROVAL. UNIT WILL HAVE C--UL--US APPROVAL. UNIT CABINET WILL BE CAPABLE OF WITHSTANDING FEDERAL TEST METHOD STANDARD NO. 14.1 (METHOD 606.1) 500--HR SALT SPRAY TEST. AIR--COOLED CONDENSER COILS WILL BE LEAK TESTED AT 150 PSIG AND PRESSURE TESTED AT 450 PSIG. UNIT CONSTRUCTED IN ISO9001 APPROVED FACILITY.
DELIVERY, STORAGE, AND HANDLING: UNIT WILL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.
EQUIPMENT: FACTORY ASSEMBLED, SINGLE PIECE, AIR--COOLED AIR CONDITIONER UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START--UP.
UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT. 3 PHASE EQUIPMENT AVAILABLE WITH DENSE GRILLE ONLY. SINGLE PHASE EQUIPMENT AVAILABLE WITH WIDE (W) OR DENSE (A) GRILLE OPTION.
CONDENSER FAN WILL BE DIRECT-DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD. CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, 1--PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS. SHAFTS WILL BE CORROSION RESISTANT. FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED. CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH COATED STEEL WIRE SAFETY GUARDS.
COMPRESSOR WILL BE HERMETICALLY SEALED. COMPRESSOR WILL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.
CONDENSER COIL WILL BE AIR COOLED. COIL WILL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.
REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID--LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR--LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF R-410 REFRIGERANT, AND COMPRESSOR OIL. UNIT WILL BE EQUIPPED WITH HIGH--PRESSURE SWITCH, LOW PRESSURE SWITCH AND FILTER DRIER FOR PURON REFRIGERANT.

LEGEND

SYMBOLS	DESCRIPTION
	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 = TYPE, X2 = CFM
	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER (MVD)
	BACKDRAFT DAMPER (BDD)
	VERTICAL (TYP. WALL) FIRE DAMPER
	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
	THERMOSTAT
	HUMIDISTAT
	REMOTE TEMPERATURE SENSOR
	INTERNALLY LINED DUCT
	DUCT UP
	DUCT UP
	DUCT DOWN
	SUPPLY DUCT
	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	M	MOTOR
BDD	BACKDRAFT DAMPER	MA	MAKE-UP AIR
AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT
CO2	CARBON DIOXIDE	MAV	MANUAL AIR VENT
CU	CONDENSING UNIT	MBH	1,000 BTU PER HR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
DH	DEHUMIDIFIER	MVD	MANUAL VOLUME DAMPER
EA	EXHAUST AIR	NC	NORMALLY CLOSED
EAT	ENTERING AIR TEMPERATURE	NO	NORMALLY OPEN
EDH	ELECTRIC DUCT HEATER	OA	OUTSIDE AIR
EF	EXHAUST FAN	OBD	OPOSED BLADE DAMPER
ESP	EXTERNAL STATIC PRESSURE	PIU	POWER INDUCTION UNIT
EWH	ELECTRIC WALL HEATER	RA	RETURN AIR
F	DEGREES FAHRENHEIT	RH	RELIEF HOOD
FCU	FAN COIL UNIT	RTU	ROOFTOP UNIT
FD	FIRE DAMPER	SA	SUPPLY AIR
FSD	COMBINATION FIRE/SMOKE DAMPER	SP	STATIC PRESSURE
FURN	FURNACE	U.N.O	UNLESS NOTED OTHERWISE
H	HUMIDISTAT	UC	UNDER CUT DOOR
IH	INTAKE HOOD	VAV	VARIABLE AIR VOLUME
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LWT	LEAVING WATER TEMPERATURE	WL	WALL LOUVER



REV #	DATE	DESCRIPTION



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PMD PROJ #	23039

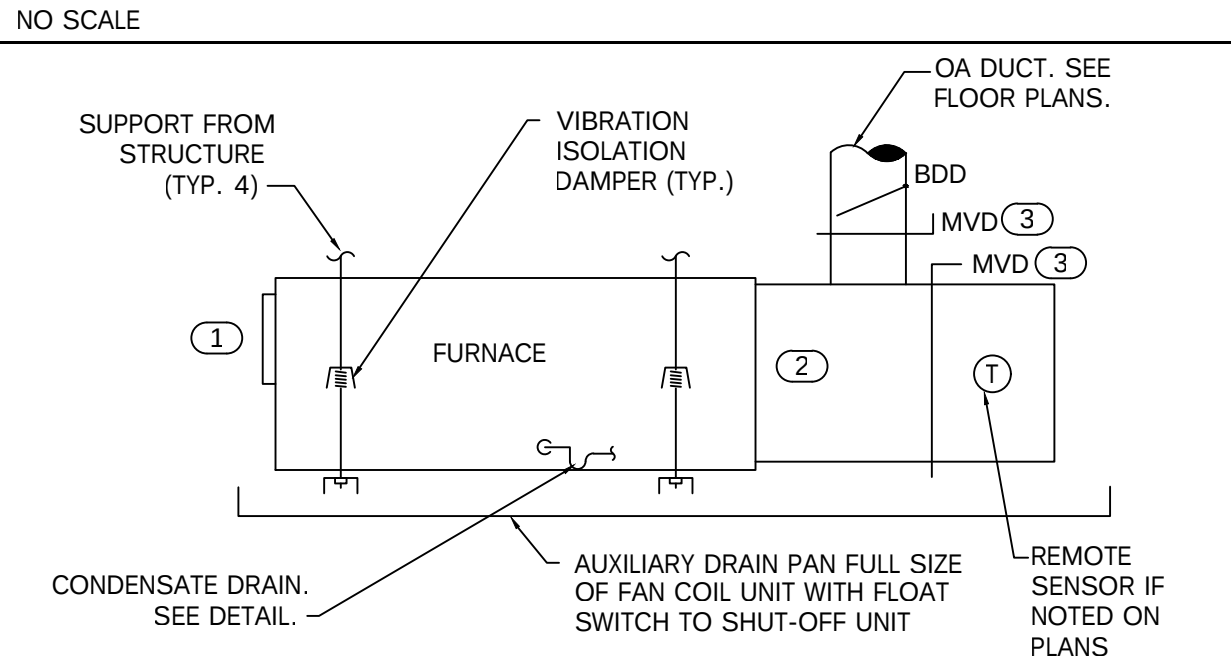
SHEET #

SHEET TITLE

GENERAL

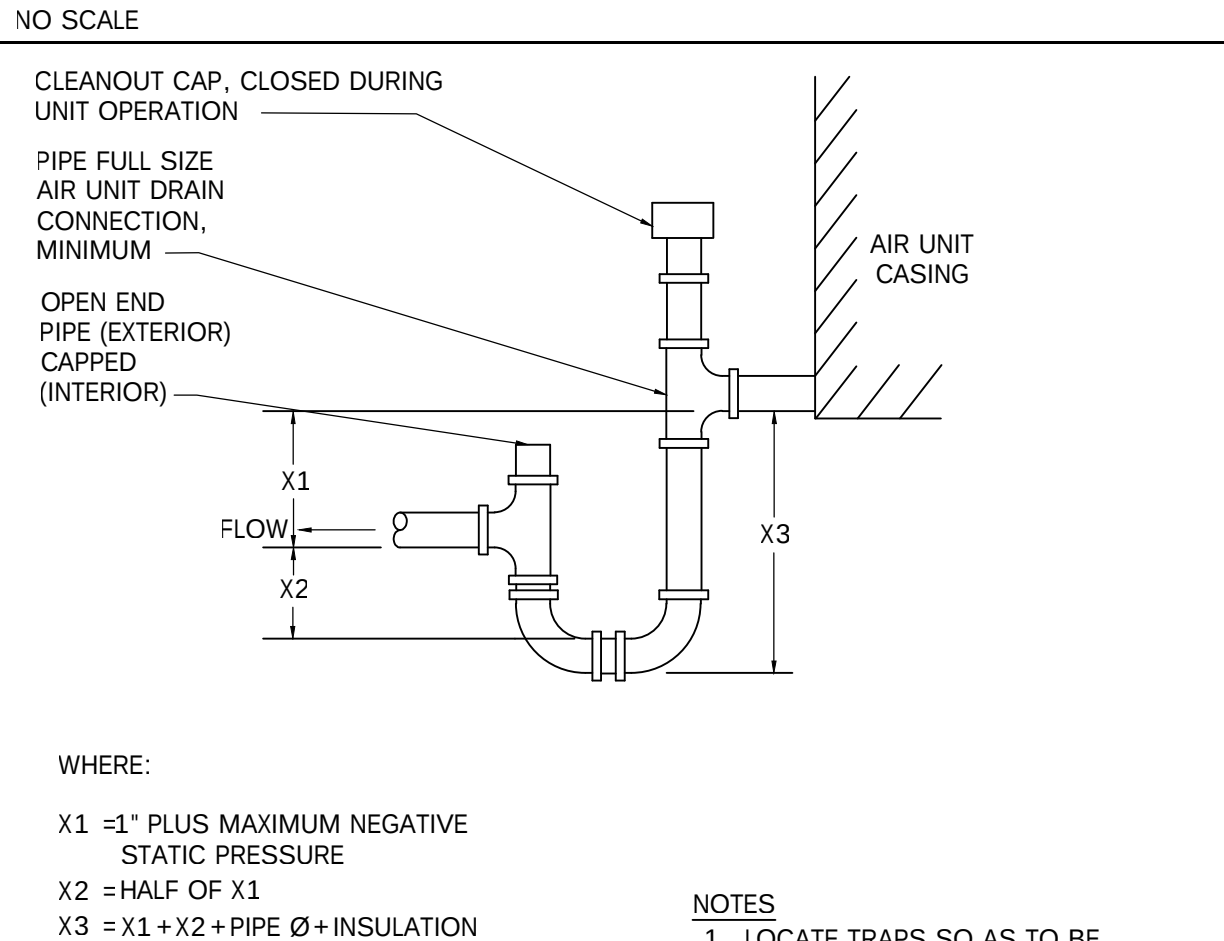
M0.1

HORIZONTAL FURNACE DETAIL



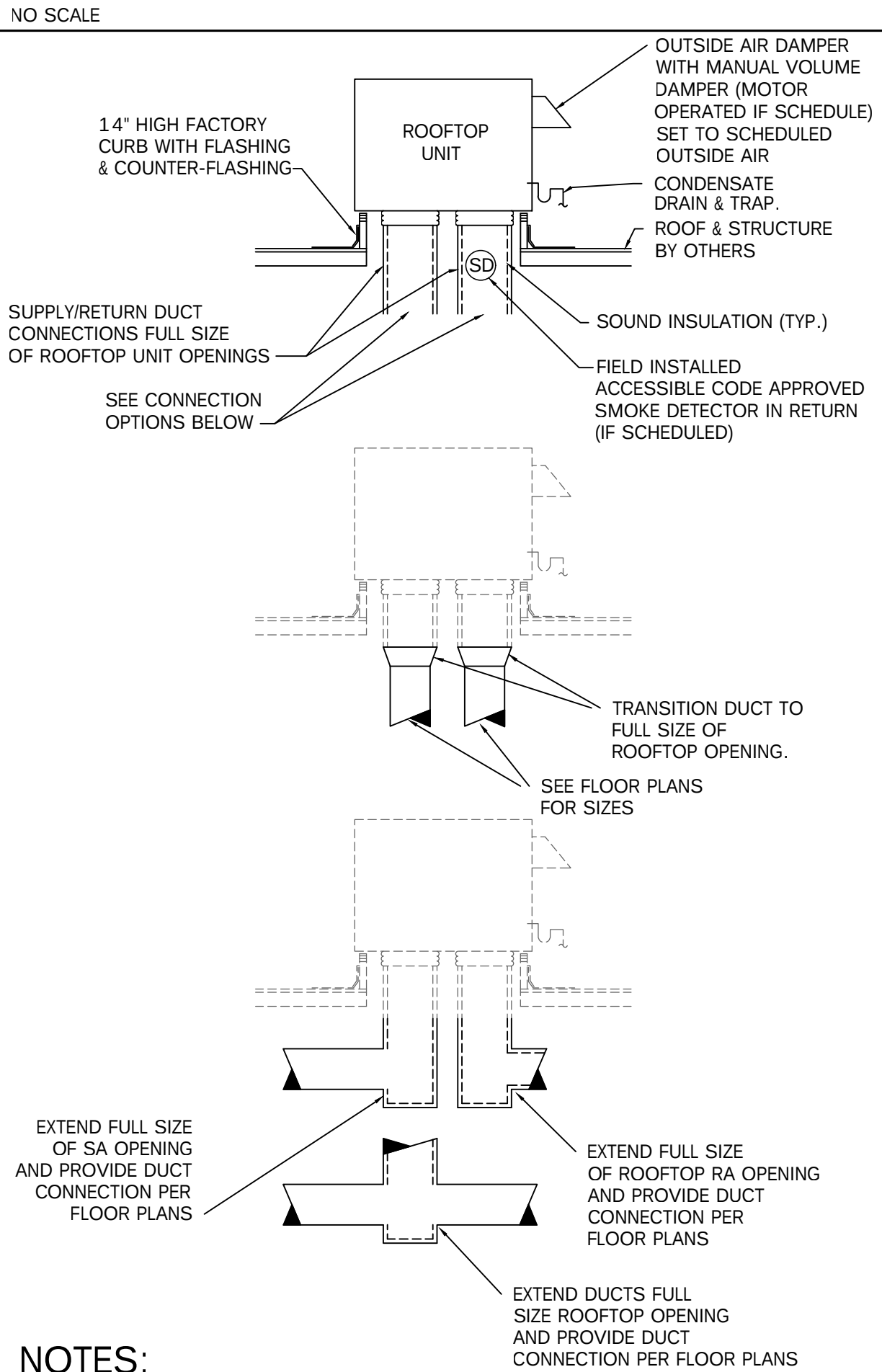
- KEY NOTES:
- 1 SUPPLY AIR DISCHARGE. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO SUPPLY AIR DUCT SIZE SHOWN ON FLOOR PLANS.
 - 2 RETURN AIR PLENUM FULL SIZE OF RETURN AIR OPENING. SEE FLOOR PLAN(S) FOR DUCT CONNECTIONS.
 - 3 PROVIDE MOTOR OPERATED DAMPERS WHERE ECONOMIZER OR DEMAND VENTILATION IS SCHEDULED.

CONDENSATE TRAP (DRAW THROUGH UNIT)



- WHERE:
- X1 = 1" PLUS MAXIMUM NEGATIVE STATIC PRESSURE
 - X2 = HALF OF X1
 - X3 = X1 + X2 + PIPE Ø + INSULATION
- NOTES
- 1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

ROOFTOP UNIT DETAIL

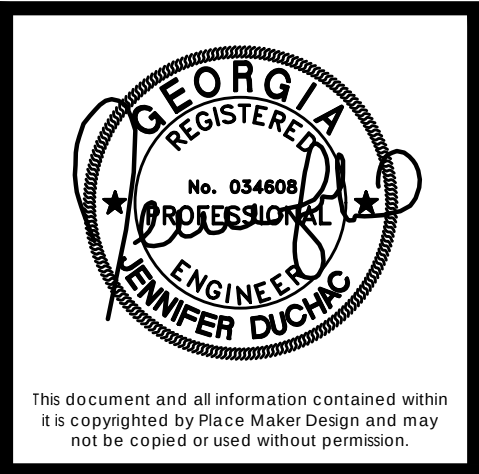


- NOTES:
- 1. REFER TO FLOOR PLANS TO DETERMINE WHICH CONNECTION SHALL BE INSTALLED.
 - 2. COORDINATE EXACT LOCATION OF ROOF OPENING WITH ARCHITECT AND STRUCTURAL.
 - 3. WHERE SUPPLY AIR BY-PASS IS SCHEDULED, PROVIDE BY-PASS IN ROOF CURB WITH MANUAL VOLUME DAMPER ACCESSIBLE FROM ROOF.
 - 4. CONSTANT VOLUME RTUS WITH ECONOMIZERS SHALL INCLUDE MOTORIZED DAMPERS IN BOTH THE OUTDOOR AIR AND RETURN FOR ECONOMIZER CONTROL.
 - 5. CONSTANT VOLUME RTUS WITHOUT ECONOMIZERS SHALL INCLUDE A MOTORIZED OUTDOOR AIR INTAKE DAMPER AND A MANUAL VOLUME DAMPER IN RETURN DUCT FOR BALANCING. MANUAL VOLUME DAMPER IN OUTDOOR AIR INTAKE IS ONLY ACCEPTABLE WHERE MOTORIZED IS NOT OFFERED BY THE RTU MANUFACTURER.



REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

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DETAILS

M0.2

ROOFTOP DIRECT EXPANSION (DX) EQUIPMENT																												
MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	GAS			SEER *EER	REFR.	CARRIER BASIS OF DESIGN	BASE WEIGHT (LBS.)	NOMINAL TONNAGE	MINIMUM COOLING CAPACITY						REMARKS									
					MINIMUM AFUE%	MBTU'S HEAT IN OUT	MIN. STAGES						TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7		
RTU-A	SUITE 110 / SUITE 120	1,600	0	0.50	88%	110	96.8	1	16.0	R-454B	48GC--05	555	4.0	45.7	33.4	12.3	75.0	64.0	55.0	54.0	X	X	X	X	X	X	X	X
NOTES (APPLY TO ALL):											REMARKS (APPLY AS SCHEDULED):																	
A. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER INFORMATION.											1. NON POWERED WEATHER PROOF GFCI RECEPTACLE.																	
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.											2. FACTORY DISCONNECT SWITCH.																	
C. DESIGN IS BASED ON PRODUCTS BY CARRIER. ACCEPTABLE ALTERNATES SHALL BE BY TRANE, LENNOX, DAIKIN, OR JCI. SHOULD AN ALTERNATE MANUFACTURER BE PROVIDED, THE MECHANICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING EQUIPMENT'S ELECTRICAL CHARACTERISTICS WITH THE ELECTRICAL CONTRACTOR.											3. AIRSIDE ENTHALPY ECONOMIZER WITH MOTORIZED RETURN AND OUTDOOR AIR DAMPERS.																	
D. ALL UNITS SHALL BE INSTALLED WITH AN ELECTRONIC WATER LEVEL DETECTOR IN THE PRIMARY DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE INSTALLED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE AND LOWER THAN THE DRAIN PAN OVERFLOW RIM. THE WATER LEVEL DETECTOR SHALL BE WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER.											4. POWERED EXHAUST. POWERED EXHAUST SHALL RUN ONLY WHEN UNIT IS IN ECONOMIZER MODE.																	
E. UNITS SHALL BE DOE 2023 COMPLIANT.											5. FACTORY INSULATED ROOF CURB.																	
											6. LOW AMBIENT COOLING KIT.																	
											7. TWO STAGE COOLING.																	



REV #	DATE	DESCRIPTION

SPLIT DIRECT EXPANSION (DX) EQUIPMENT																													
INDOOR UNIT						OUTDOOR UNIT						COMBINED COOLING CAPACITIES								REMARKS									
MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (hp)	HEATING		CARRIER FURNACE BASIS OF DESIGN	CARRIER COIL BASIS OF DESIGN	SEER2	REFR.	CARRIER BASIS OF DESIGN	NOMINAL TONNAGE	COOLING		LAT	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)									
						GAS TYPE	EFF. AFUE							TOTAL (MBH)	SENS (MBH)						1	2	3	4	5	6	7	8	
FURN-A / CU-A	SUITE 100	1,600	0	0.50	1 ECM	NATURAL	98%	59SP5A080E21--20	CAAMP4821AMA	16.0	R-454B	26SPA648W003	4.0	49.8	35.1	14.7	75.0	64.0	54.0	53.0	X	X	X	X	X	X	X	X	X
FURN-B / CU-B	SUITE 100	1,990	0	0.50	1 ECM	NATURAL	98%	59SP5A080E21--20	CAAMP6121AMA	16.0	R-454B	26SPA660W003	5.0	61.9	43.6	18.3	75.0	64.0	54.0	53.0	X	X	X	X	X	X	X	X	X
NOTES (APPLY TO ALL):											REMARKS (APPLY AS SCHEDULED):																		
A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.											1. PROGRAMMABLE THERMOSTAT.																		
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.											2. 2-PIPE DIRECT VENTING KIT. PROVIDE CONCENTRIC TERMINATION AT ROOF OR WALL. VENT SIZE, MATERIALS AND TERMINATION SHALL BE PER MANUFACTURER'S REQUIREMENTS.																		
C. BASIS OF DESIGN: CARRIER. SEE SPECIFICATIONS. ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX											3. LOW AMBIENT PACKAGE.																		
D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.											4. DISPOSABLE FILTER.																		
E. UNITS SHALL BE DOE 2023 COMPLIANT.											5. ANTI-SHORT CYCLE TIMER.																		
											6. INDOOR FAN DELAY KIT.																		
											7. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.																		
											8. MOUNT OUTDOOR CONDENSING UNIT ON ROOF.																		

WARM SHELL MECHANICAL EQUIPMENT SIZING						
SUITE	FUTURE USE TYPE	SF	COOLING DESIGN (SF/TON)	EQUIPMENT	EQUIPMENT SIZE (TON)	ACTUAL SF/TON
100	RESTAURANT LOWER	3622	150	1 x FURN-A / CU-A + 4 x FURN-B / CU-B	1 x 4 + 4 x 5 = 24	150.9
	RESTAURANT UPPER	1232	150	2 x FURN-A / CU-A	2 x 4 = 8	154.0
110	RETAIL	1138	300	RTU-A	4	284.5
120	RETAIL	1188	300	RTU-A	4	297.0

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404.549.4499

ISSUE DATE12/23/2024

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PMD PROJ #23039

SHEET TITLE

SCHEDULES

SHEET #M0.3



Project Information

Energy Code: 2018 IECC
Project Title: 124676 Leake Street Cartersville GA
Location: Cartersville, Georgia
Climate Zone: 3a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
High Performance HVAC, 1.0 credit

Mechanical Systems List

Quantity System Type & Description

- 3 FURN-ACU-A (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h
Proposed Efficiency = 98.00% Et, Required Efficiency: 88.00 % Et or 88% AFUE
Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 16.80 SEER, Required Efficiency = 14.30 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
- 4 FURN-B/CU-B (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h
Proposed Efficiency = 98.00% Et, Required Efficiency: 88.00 % Et or 88% AFUE
Cooling: 1 each - Split System, Capacity = 60 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: High Efficiency Equipment
Proposed Efficiency = 16.80 SEER, Required Efficiency = 16.45 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
- 2 RTU-A (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 110 kBtu/h
Proposed Efficiency = 88.00% Et, Required Efficiency: 88.00 % Et or 88% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 16.00 SEER, Required Efficiency = 15.40 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jennifer Duchac - P.E. 12/23/2024
Name - Title Signature Date

Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
Data filename: Page 1 of 9

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
Data filename: Page 4 of 9



Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.11.3 [ME61] ¹	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.8.1 [ME65] ¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.12.1 [ME71] ¹	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.2 [ME59] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.2 [ME115] ¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.6 [ME141] ¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.7.5 [ME116] ¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 [FO9] ¹	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature, future connection to controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.1 C403.11.2 [ME60] ²	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1.4 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.2.1 [ME53] ¹	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123] ¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: 124676 Leake Street Cartersville GA Report date: 12/23/24
Data filename: Page 6 of 9



REV #	DATE	DESCRIPTION

21 LEAKE STREET
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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.8.2.1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [F18] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.2 [F127] ³	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4.1 [F147] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.4.1.2 [F138] ³	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120] ³	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4.2 [F139] ³	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [F140] ³	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.1.1 [F157] ³	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.1 [F128] ³	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3.1 [F131] ³	HVAC equipment has been tested to ensure proper operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.3.2 [F110] ³	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
Project Title:	124676 Leake Street Cartersville GA		Report date: 12/23/24
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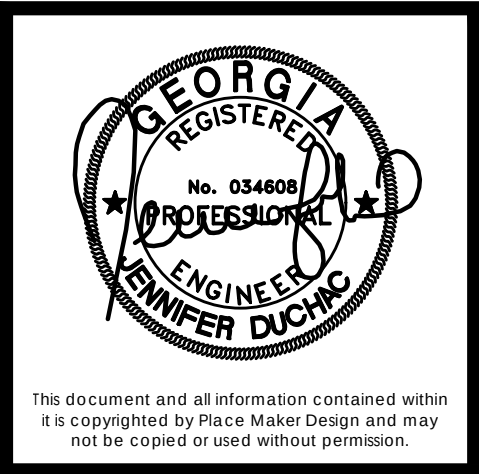
Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.4 [F129] ³	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5.1 [F17] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5.3 [F143] ³	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.
C408.2.5.4 [F130] ³	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
Project Title:	124676 Leake Street Cartersville GA		Report date: 12/23/24
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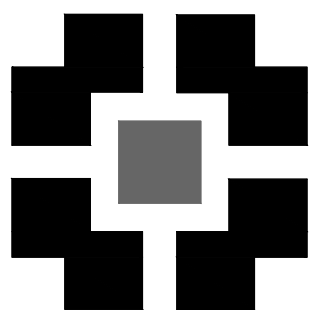
M0.5

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- B. CEILING SPACE IS LIMITED. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL ABOVE CEILING TRADES PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF DUCTWORK AND EQUIPMENT.
- C. WHERE DUCTWORK IS ROUTED WITHIN A RATED WALL/FLOOR/CEILING/ROOF ASSEMBLY, ALL PENETRATIONS OF THE ASSEMBLY SHALL BE PROTECTED TO MAINTAIN THE ASSEMBLY'S UL LISTING. REFER TO ARCHITECTURAL DOCUMENTS.
- D. EXHAUST PENETRATIONS SHALL BE A MINIMUM OF 1'-0" FROM MECHANICAL AIR INTAKES AND 3'-0" FROM OPERABLE BUILDING OPENINGS.
- E. TRAP & ROUTE 1" CONDENSATE DRAIN LINE FOR EACH FURNACE TO UTILITY SINK OR LAV TAIL PIPE WITH AIR GAP. COORDINATE TERMINATION LOCATION SO THAT IT DOES NOT CREATE A NUISANCE. PROVIDE EACH FURNACE WITH A CONDENSATE PUMP.

KEYNOTES

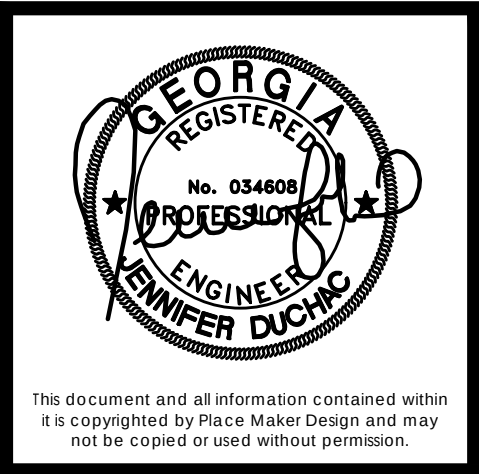
- 1 SUPPLY/RETURN DUCT OPENINGS OPEN TO SPACE.
- 2 TEMPORARILY HANG THERMOSTAT FROM STRUCTURE NEAR FURNACE. PROVIDE 30' OF THERMOSTAT WIRE.
- 3 FURNACE CONCENTRIC VENT TO EXTERIOR ROOF TERMINATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



PLACE
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21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120

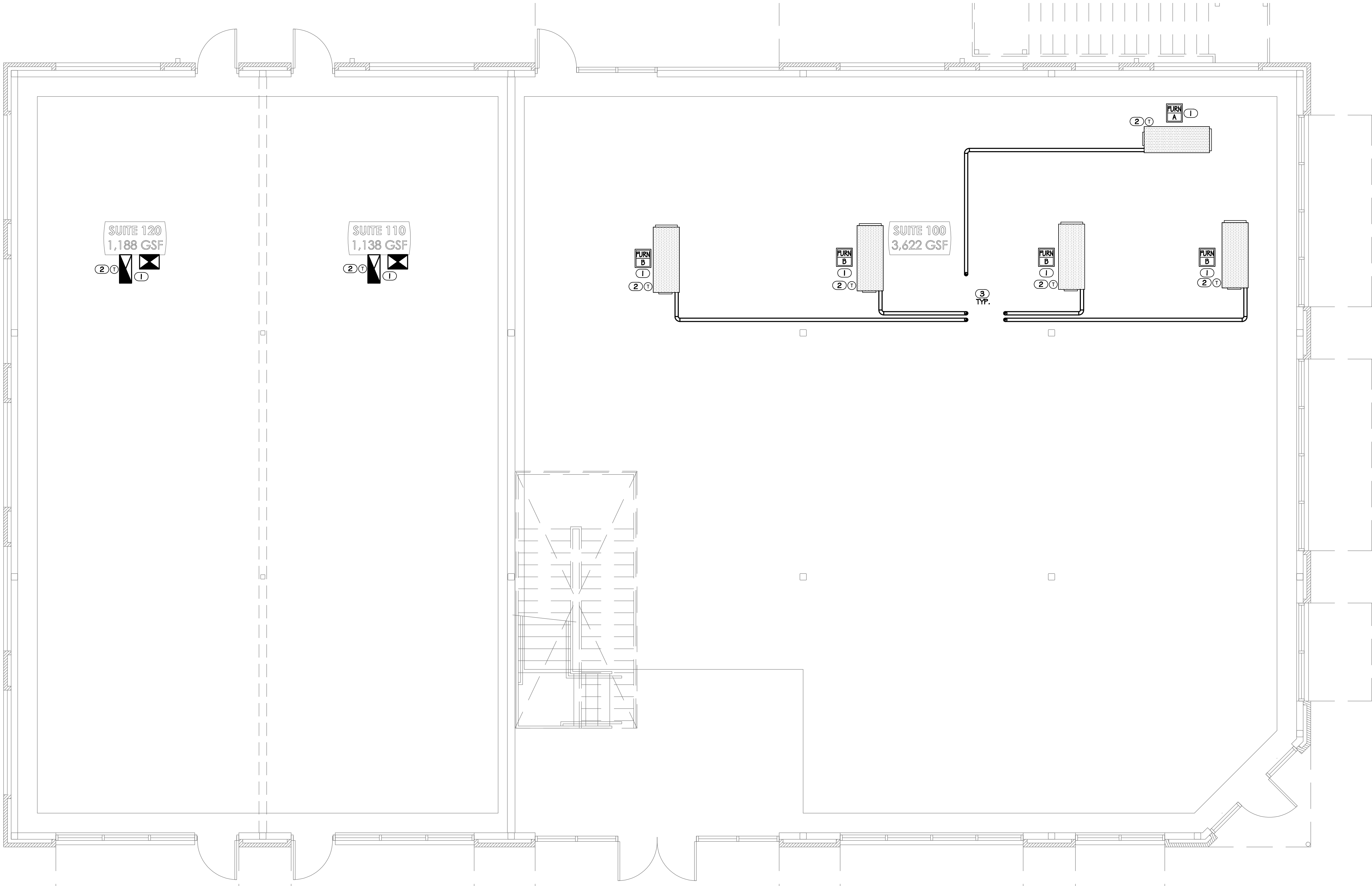


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FLOOR PLAN
- GROUND
LEVEL

SHEET #
M1.1



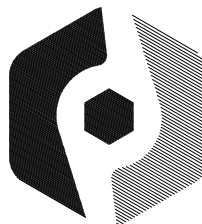
01 FLOOR PLAN - GROUND LEVEL
M1.1 SCALE: 1/4"= 1'-0"

GENERAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
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- C. WHERE DUCTWORK IS ROUTED WITHIN A RATED WALL/FLOOR/CEILING/ROOF ASSEMBLY, ALL PENETRATIONS OF THE ASSEMBLY SHALL BE PROTECTED TO MAINTAIN THE ASSEMBLY'S UL LISTING. REFER TO ARCHITECTURAL DOCUMENTS.
- D. EXHAUST PENETRATIONS SHALL BE A MINIMUM OF 10'-0" FROM MECHANICAL AIR INTAKES AND 3'-0" FROM OPERABLE BUILDING OPENINGS.
- E. TRAP & ROUTE 1" CONDENSATE DRAIN LINE FOR EACH FURNACE TO UTILITY SINK OR LAV TAIL PIPE WITH AIR GAP. COORDINATE TERMINATION LOCATION SO THAT IT DOES NOT CREATE A NUISANCE. PROVIDE EACH FURNACE WITH A CONDENSATE PUMP.

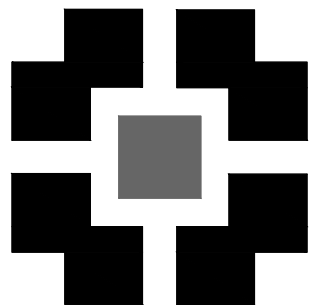
KEYNOTES

- 1 SUPPLY/RETURN DUCT OPENINGS OPEN TO SPACE.
- 2 TEMPORARILY HANG THERMOSTAT FROM STRUCTURE NEAR FURNACE. PROVIDE 30' OF THERMOSTAT WIRE.
- 3 FURNACE CONCENTRIC VENT TO EXTERIOR ROOF TERMINATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



PROFICIENT
ENGINEERING

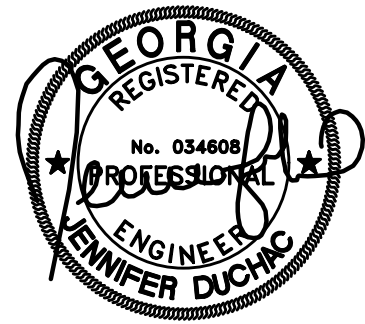
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404.330.9798
PROJECT # 124676



**PLACE
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BUILDING 01
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 034603
JENNIFER DYCHOW

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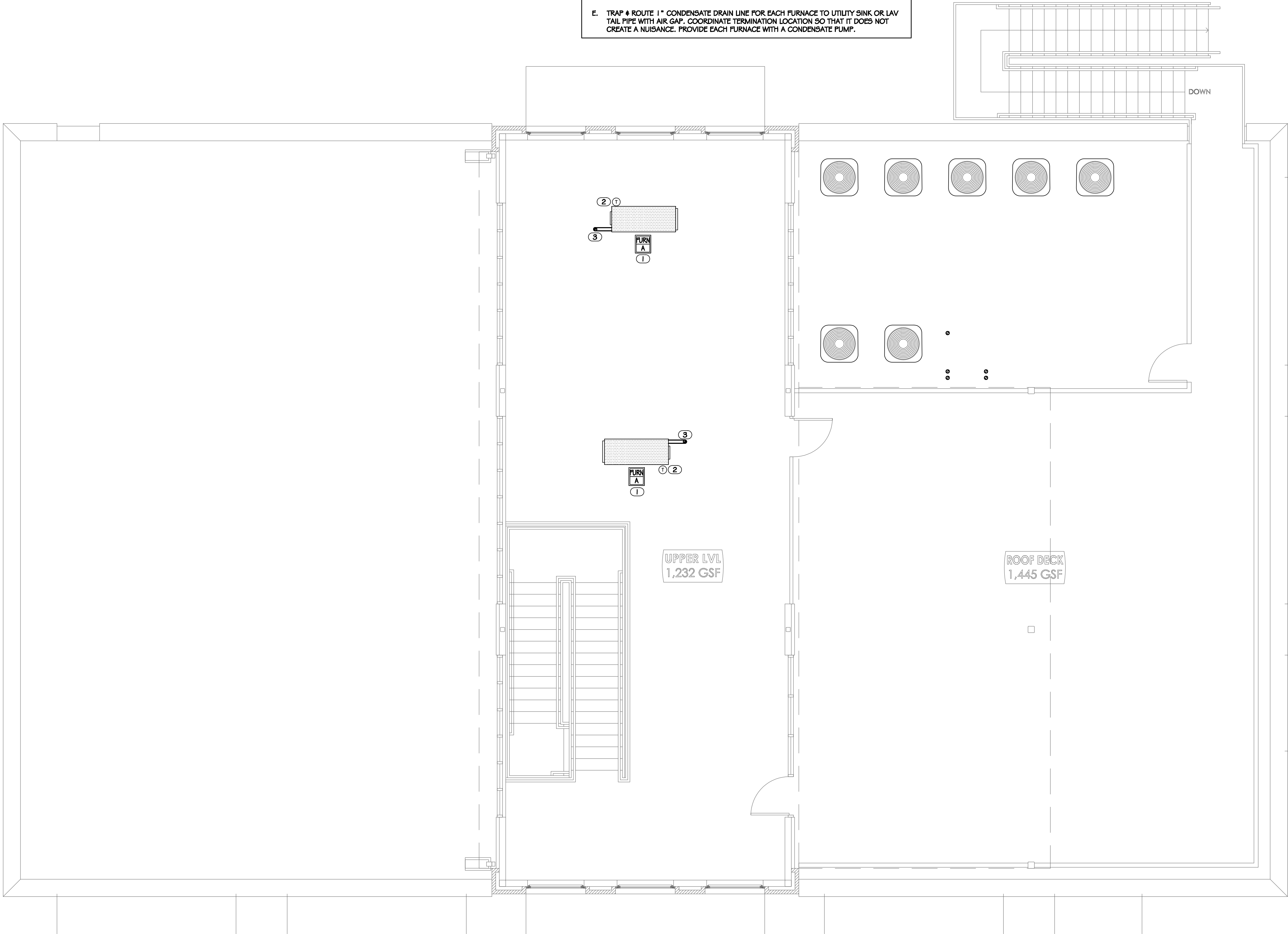
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SHEET TITLE

FLOOR PLAN - UPPER LEVEL

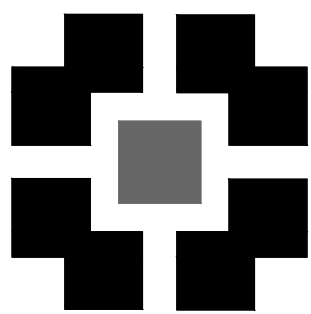
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01 FLOOR PLAN - UPPER LEVEL
M1.2 SCALE: 1/4"= 1'-0"

GENERAL NOTES

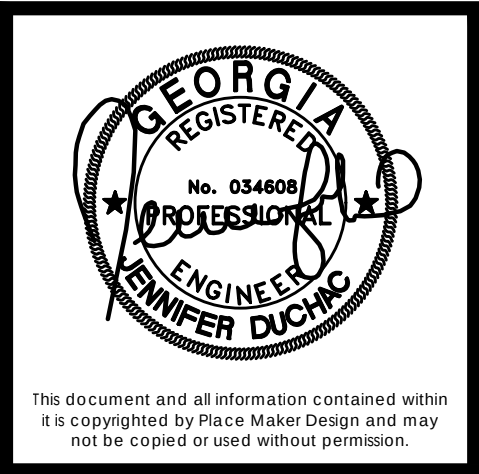
- A. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- B. CEILING SPACE IS LIMITED. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL ABOVE CEILING TRADES PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF DUCTWORK AND EQUIPMENT.
- C. WHERE DUCTWORK IS ROUTED WITHIN A RATED WALL/FLOOR/CEILING/ROOF ASSEMBLY, ALL PENETRATIONS OF THE ASSEMBLY SHALL BE PROTECTED TO MAINTAIN THE ASSEMBLY'S UL LISTING. REFER TO ARCHITECTURAL DOCUMENTS.
- D. EXHAUST PENETRATIONS SHALL BE A MINIMUM OF 1'-0" FROM MECHANICAL AIR INTAKES AND 3'-0" FROM OPERABLE BUILDING OPENINGS.



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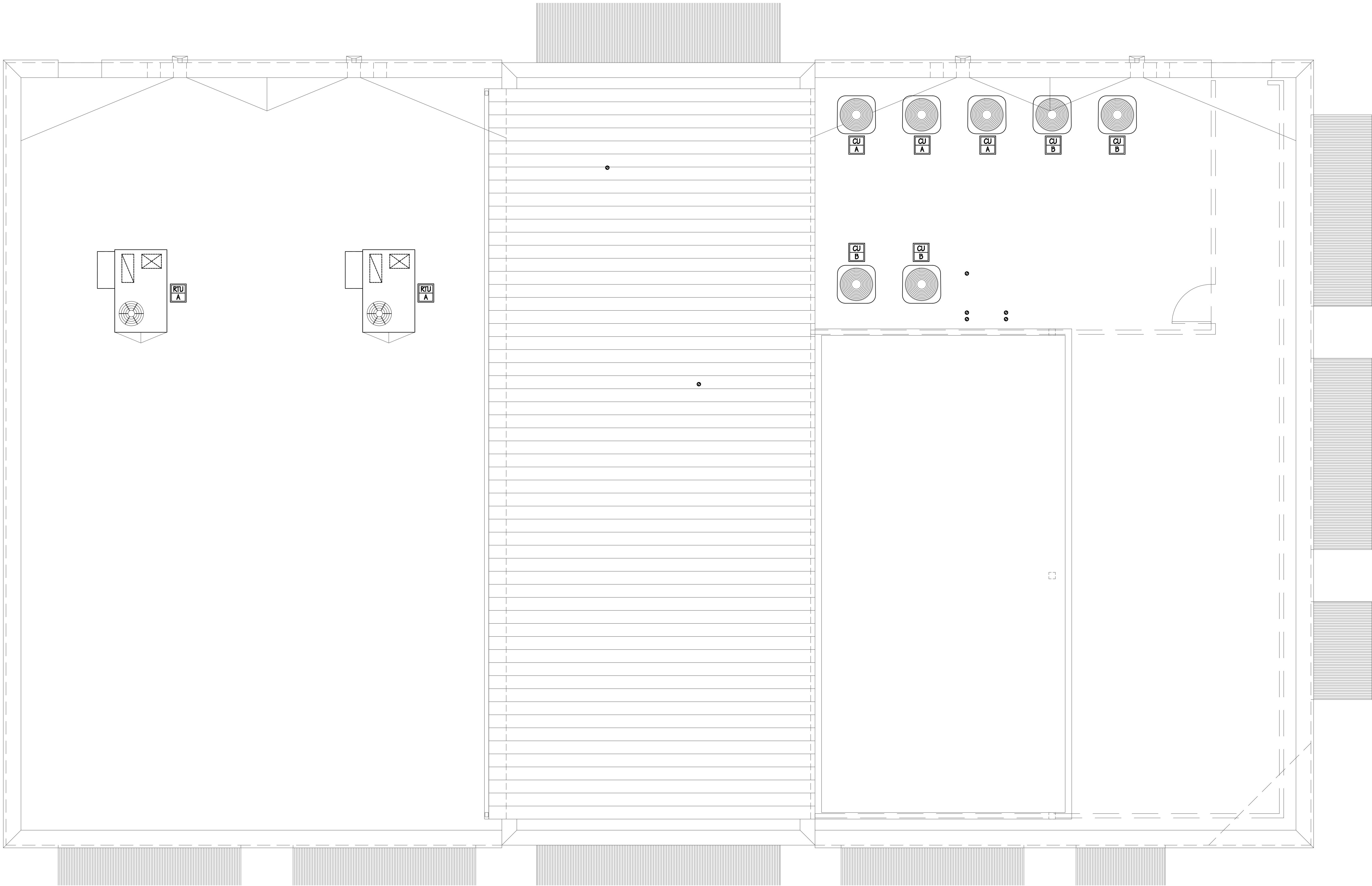


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ROOF
PLAN

M1.3



01 ROOF PLAN
M1.3 SCALE: 1/4"= 1'-0"

SPECIFICATIONS

GENERAL
ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTAL BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLEARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF $\frac{1}{8}$ " PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT $\frac{1}{4}$ " PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING, SANITARY P-TRAPS AND GREASE WASTE PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN $\frac{1}{2}$ " FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

PROFICIENT ENGINEERING WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHER'S FAILURE TO OBTAIN AND/OR FOLLOW PROFICIENT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE.

SUBMITTALS
FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

HANGERS AND SUPPORTS
HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES $\frac{3}{4}$ " AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 306, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 306.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

SLEEVES AND PENETRATIONS
SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS. PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.

SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING.

PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, 1" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

IN EXTERIOR WALLS AND BEARING PARTITIONS, WOOD STUDS ARE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF THE WIDTH OF THE STUD. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS NOT SUPPORTING LOADS OTHER THAN THE WEIGHT OF THE PARTITION.

BORED HOLES NOT GREATER THAN 40 PERCENT OF THE STUD WIDTH ARE PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE STUD WIDTH ARE PERMITTED IN NONBEARING PARTITIONS IN ANY WALL WHERE EACH BORED STUD IS DOUBLED, PROVIDED THAT NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED. THE EDGE OF A BORED HOLE SHALL NOT BE NEARER THAN $\frac{1}{8}$ INCH (115.9 mm) TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES
SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 1/2454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 1.4. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321.

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 10 FOOT OF WATER HEAD PRESSURE APPLIED.

SANITARY STACKS TRANSITIONING TO THE HORIZONTAL SHALL BE THROUGH 45° WYE BRANCHES, COMBINATION WYE AND ONE-EIGHTH BEND BRANCHES, OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED $\frac{1}{4}$ "/FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.

SPECIFICATIONS

DOMESTIC WATER SYSTEMS AND ACCESSORIES
THE PRIMARY SPECIFICATION FOR DOMESTIC WATER PIPING SHALL BE AS FOLLOWS: WATER PIPING ABOVE FLOOR: TYPE 'L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B1.6.22. WATER PIPING BELOW FLOOR: TYPE 'K' SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

AS AN ALTERNATE TO THE PRIMARY SPECIFICATION FOR WATER PIPING, THE FOLLOWING MAY BE USED IN WHOLE OR IN PART. THE PLUMBING CONTRACTOR SHALL LIST EACH SYSTEM AS A SEPARATE LINE ITEM AS AN ALTERNATE FOR THE OWNER'S SELECTION. USE OF ANY ALTERNATE SHALL BE AT THE SOLE DISCRETION OF THE OWNER. SERVICE PIPING BELOW GRADE: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WITH APPROVED JOINTING METHODS, SHALL MEET ASTM D2846 AND ASTM F 441. HOT AND COLD WATER PIPING ABOVE FLOOR: CPVC (CHLORINATED POLYVINYL CHLORIDE) SCHEDULE 40 WITH SOLVENT WELD JOINTS WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. PIPING SHALL MEET ASTM D 2848 AND SHALL BE CERTIFIED BY THE NSF INTERNATIONAL FOR USE WITH POTABLE WATER SYSTEMS. SOLVENT CEMENTS FOR CPVC PLASTIC PIPING SHALL MEET ASTM F437, ASTM F438 AND ASTM F439. WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5. HOT AND COLD WATER PIPING ABOVE FLOOR: CROSS-LINKED POLYETHYLENE (PEX) TUBING, SHALL COMPLY WITH ASTM F 876, ASTM F 877; CSA B137.5.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 100PSI AT 180°F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TPE WITH TEFLO PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL.

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30°-180° RANGE (TERRICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE $\frac{1}{2}$ " DIAL SIZE, 0-160PSI (TERRICE 600CB OR EQUAL).

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE TO CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYSTEM. CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE CONDITION, WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS L5F777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

RETURN AIR PLENUMS
ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

INSULATION
INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO $\frac{1}{2}$ " 1" THICK INSULATION. PIPE $\frac{1}{2}$ " OR LARGER: $\frac{1}{2}$ " THICK INSULATION

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1" $\frac{1}{2}$ " THICK. PIPING $\frac{1}{2}$ " AND OVER: 1" THICK INSULATION. ALL WATER AND DRAINAGE PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN 1" THICK PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR BLOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

INSULATION SHALL HAVE A K-FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU-INHR x 5QFT x °F.

PROTECTION OF PIPING
PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWICE THE DIAMETER OF THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC 305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERICO XJ SERIES OR EQUAL).

NATURAL GAS SYSTEMS AND ACCESSORIES
IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LOCAL GAS UTILITY PROVIDER TO CONFIRM THE AVAILABILITY OF THE INDICATED DESIGN DELIVERY PRESSURE PRIOR TO COMMENCING WORK.

ALL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE AND NFPA 54.

ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A53/A53M). FITTINGS SHALL BE ASME B1.6.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE. JOINTS SHALL BE THREADED OR WELDED TO ASME B31.1.

BELOW GRADE GAS PIPING SHALL BE FLEXIBLE POLYETHYLENE TUBING AND SHALL COMPLY WITH ASTM D2513 AND CSA B137.4, AND SHALL BE INSTALLED IN ACCORDANCE WITH IFGC SECTION 402.11.2. PROVIDE MANUFACTURED RISER ASSEMBLY TO TRANSITION FROM TUBING TO ABOVEGROUND METALLIC PIPING.

SHUTOFF VALVES SHALL BE PROVIDED AND LOCATED IN PLACES SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM DAMAGE.

ALL GAS FIRED APPLIANCES ARE PROVIDED WITH A GAS PRESSURE OF 7"W.C. AT FINAL EQUIPMENT CONNECTION. IF 7"W.C. EXCEEDS EQUIPMENTS SPECIFIC INLET PRESSURE REQUIREMENT, CONTRACTOR SHALL PROVIDE APPROPRIATE PRESSURE REGULATING VALVE.

GAS PIPING ON ROOF SURFACES SHALL BE ELEVATED NO LESS THAN $\frac{3}{8}$ " INCHES ABOVE ROOF SURFACE AND SHALL BE CLAMPED TO RUBBER CHANNEL SUPPORTS (MIFAB C10 SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE MAXIMUM SPACING OF SUPPORTS SHALL BE: $\frac{1}{2}$ " PIPE: 5'-0", $\frac{3}{4}$ " TO $\frac{1}{2}$ " PIPING: 6'-0", $\frac{1}{2}$ " AND LARGER: 12'-0". VERTICAL PIPING SHALL BE SUPPORTED AT BASE, TOP AND AT 10' INTERVALS (MINIMUM).

ALL EXTERIOR GAS PIPING ON ROOF SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW. GAS PIPING RUNNING ON EXTERIOR WALLS SHALL BE PRIMED AND PAINTED TO MATCH BUILDING WALL.

EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED 'GAS' IN BLACK LETTERS. ALL PIPING GREATER THAN 7"W.C. SERVICE PRESSURE SHALL BE IDENTIFIED BY A YELLOW LABEL WITH BLACK LETTERS INDICATING THE PIPING SYSTEM PRESSURE. THE SYSTEM SHALL BE LABELED PER OSHA RECOMMENDED ANSI/ASME GUIDELINE A13.1 WHICH INDICATES THAT LABELS BE INSTALLED AT ALL CHANGES IN DIRECTION, ON BOTH SIDES OF ENTRY POINTS THROUGH FLOORS AND WALLS, NEXT TO ALL VALVES AND FLANGES, AND AT 25FT INTERVALS ON STRAIGHT RUNS.

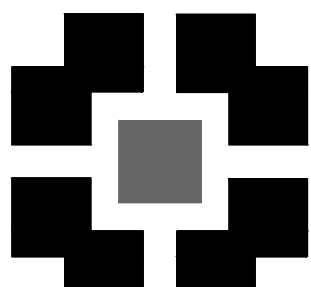
BALL VALVES: THREE PIECE BODY, FULL PORT, CHROME PLATED BALL, BLOWOUT PROOF STEM, TPE SEATS, UL LISTED FOR FLAMMABLE LIQUIDS, 600 PSI WOG, THREADED ENDS.

PRESSURE REGULATOR VALVE: SINGLE STAGE AND SUITABLE FOR NATURAL GAS, STEEL JACKET AND CORROSION RESISTANT COMPONENTS, THREADED FOR REGULATORS NPS 2 AND SMALLER. PROVIDE SHUTOFF VALVE IMMEDIATELY AHEAD OF REGULATOR, AND INSTALL TEST PORTS ON EITHER SIDE REGULATOR, WITH UPSTREAM TEST PORT DOWNSTREAM OF SHUTOFF VALVE. REGULATORS SHALL BE INSTALLED PER IFGC SECTION 410. FOR 2PSI INLET, PROVIDE MAXIROL 325-L SERIES. PROVIDE VENT PROTECTOR FOR EXTERIOR APPLICATIONS. FOR INTERIOR APPLICATIONS, VENT SHALL BE PIPED TO THE EXTERIOR WITH TURNDOWN AND SCREEN PROTECTOR (REGULATOR EQUIPPED WITH FACTORY PROVIDED VENT LIMITER IS ACCEPTABLE WHERE APPROVED BY THE LOCAL JURISDICTION).

SHUTOFF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH IFGC 409. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS STEEL TUBING OR COPPER CONNECTOR. SHUTOFF SHALL BE WITHIN 6" OF APPLIANCE.

INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.

ALL GAS PIPING INSTALLED BENEATH THE BUILDING SLAB SHALL BE ENCASED IN WROUGHT IRON CONDUIT. PIPING SHALL BE PROTECTED AND INSTALLED ACCORDING TO THE INTERNATIONAL FUEL GAS CODE SECTION 404.14.



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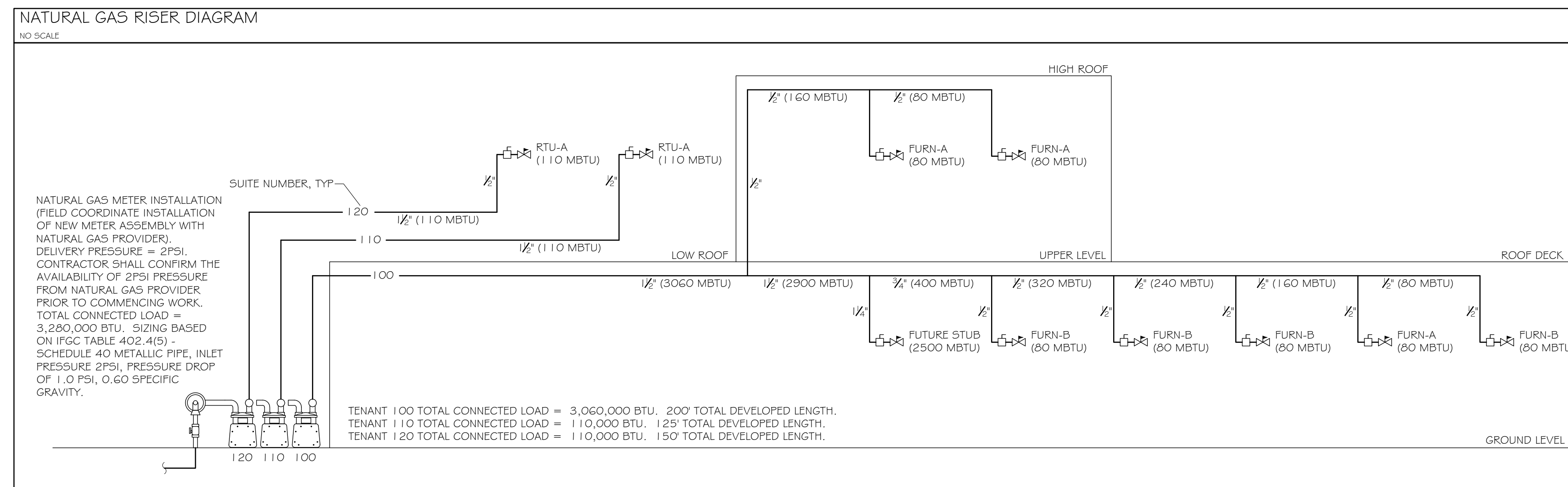
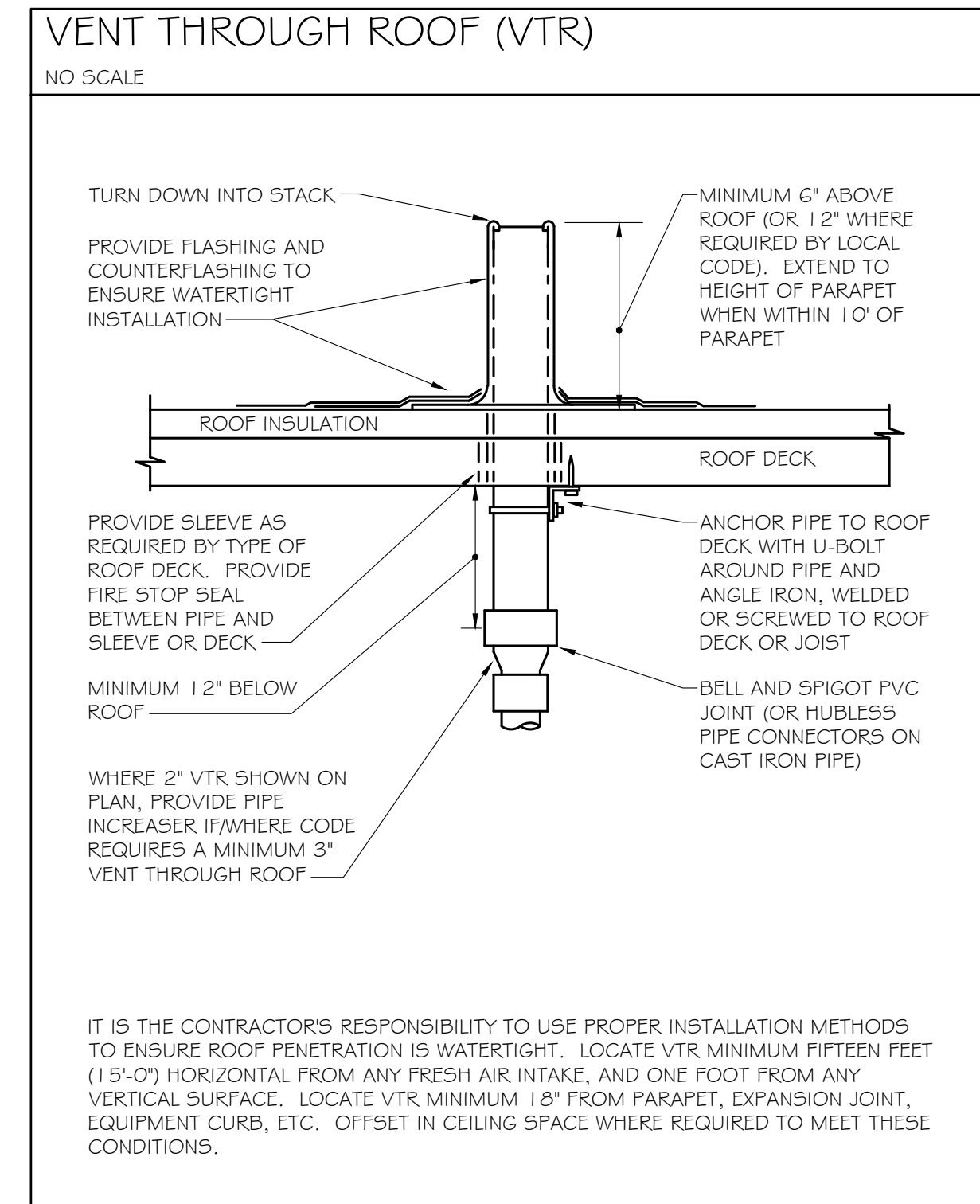
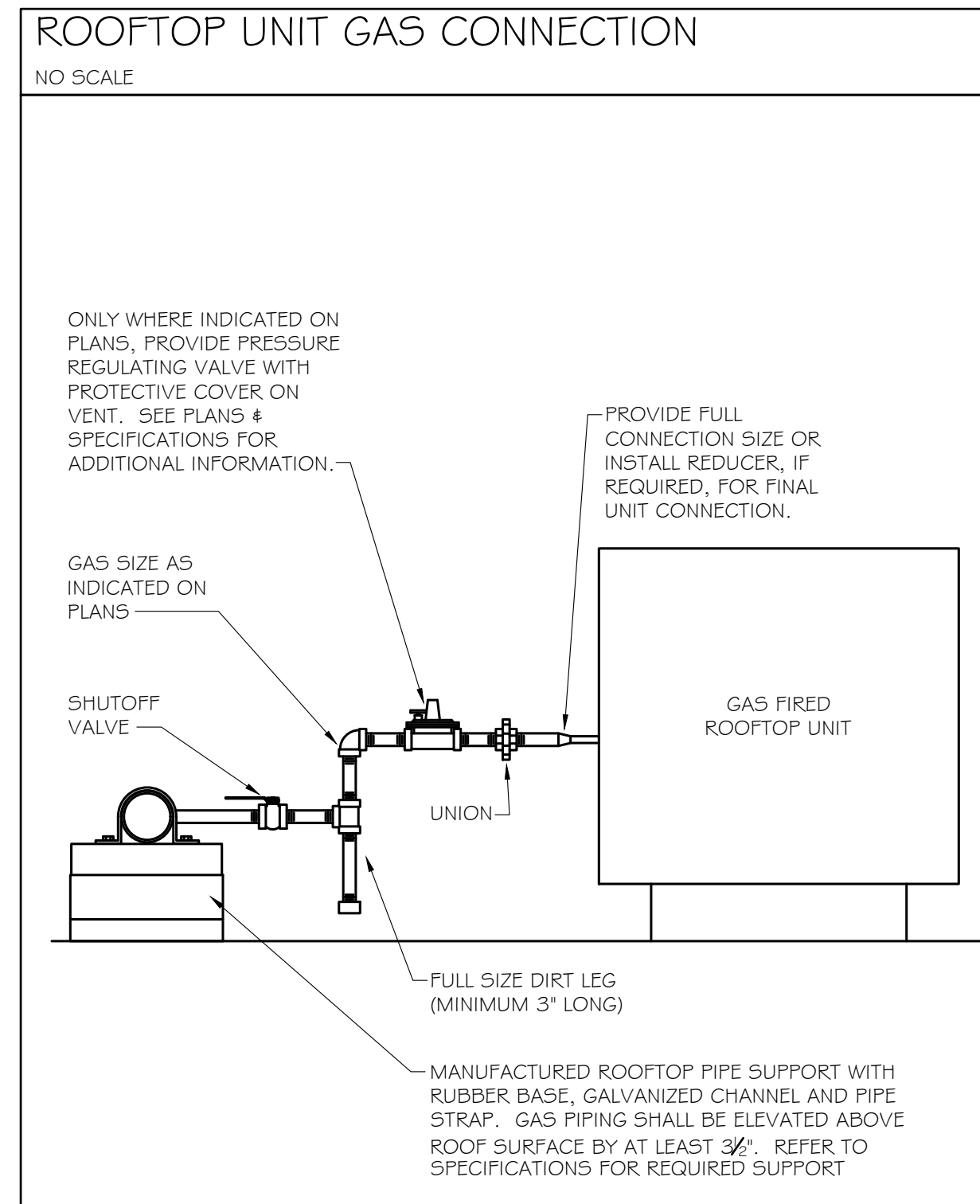
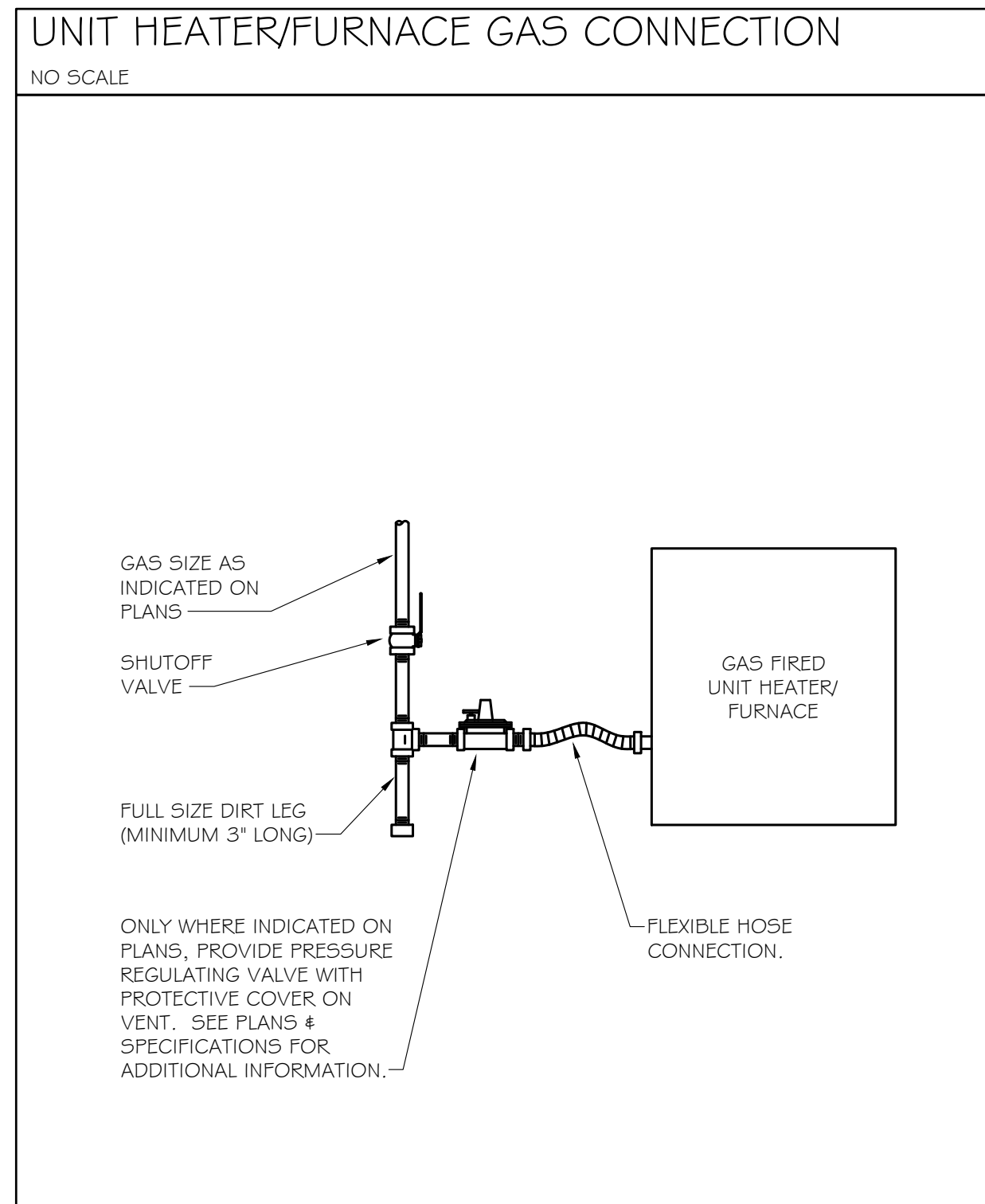
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SHEET TITLE

GENERAL

SHEET #

P0.1



PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT		WATER CONN.		SPECIFICATION
					CW	HW	CW	HW	
FHE-1	FREEZEPROOF HOSE BIBB	---	---	---	3/4"	---	3/4"	---	WOODFORD MODEL 25 FREEZELESS HOSE BIBB WITH 3/4" HOSE CONNECTION AND WIELD HANDLE, WITH INTEGRAL AUTOMATIC DRAINING, ASSE 101) ANTI-SIPHON VACUUM BREAKER.
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY FIXTURE SPECIFICATIONS WITH ARCHITECT/OWNER									

[illegible]

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SCHEDULES, DETAILS, & NATURAL GAS RISER DIAGRAM

P0.2

KEYNOTES

- ① 3" VENT STUB CAPPED O/H # 3" V UP TO VTR

② TWO (2) NATURAL GAS LINES FROM GAS METER INSTALLATION UP ON EXTERIOR OF BUILDING TO ROOF. ONE (1) NATURAL GAS LINE FROM GAS METER INSTALLATION UP ON EXTERIOR OF BUILDING TO O/H LEVEL 1 # RUN TIGHT TO STRUCTURE

③ NATURAL GAS O/H TIGHT TO STRUCTURE # DROP TO FURNACE W/SHUTOFF VALVE, DIRT LEG # UNION (SEE DETAIL)

④ NATURAL GAS UP TO LEVEL ABOVE

⑤ COORDINATE WITH GAS PROVIDER THE INSTALLATION THREE (3) NATURAL GAS METERS, FIELD COORDINATE EXACT LOCATION. SEE RISER DIAGRAM FOR PIPE SIZING AND DESIGN CRITERIA.
- ⑥ NATURAL GAS DN # B/G

⑦ NATURAL GAS B/G, SEE CIVIL FOR CONT.

⑧ NATURAL GAS TIGHT TO STRUCTURE O/H # VALVE # CAP FOR FUTURE USE.

⑨ ¾" CW UP TO LEVEL ABOVE

⑩ ¾" VALVED CW O/H # DROP TO FREEZEPROOF HOSE BIBB, FHB-1

⑪ ¾" VALVED CW O/H W/ VALVE # CAP FOR FUTURE USE. PROVIDE REMOTE READ SUBMETER (BY OWNER)

⑫ 2" VALVED CW O/H W/ VALVE # CAP FOR FUTURE USE.

⑬ PROVIDE REMOTE READ SUBMETER (BY OWNER)
- ⑭ 4" SANITARY SEWER B/F # STUB UP WITH CAP FOR FUTURE USE

⑮ 4" GREASE WASTE B/F # STUB UP WITH CAP FOR FUTURE USE

⑯ 4" SANITARY SEWER B/G, SEE CIVIL DWG FOR CONT

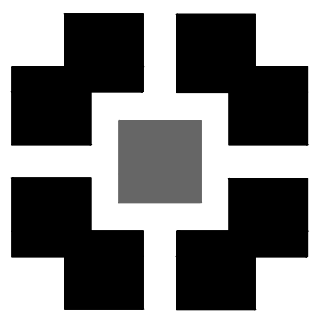
⑰ 2" DOMESTIC WATER SERVICE B/G, SEE CIVIL DWG FOR CONT

⑱ 2" DOMESTIC WATER SERVICE ENTRY RISER WITH SHUTOFF VALVE # PRESSURE GAUGE. PROVIDE PRESSURE REDUCING VALVE IF INCOMING PRESSURE EXCEEDS 80PSI.

⑲ 4" GREASE WASTE B/F TO NEW 1500 GALLON PRECAST CONCRETE GREASE INTERCEPTOR, REFER TO CIVIL FOR EXACT LOCATION # ROUTING OF GREASE WASTE PIPNG FROM 5' OUTSIDE OF BUILDING TO INTERCEPTOR

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE TO CONFIRM ADEQUATE PRESSURE TO SERVE THE DOMESTIC WATER SYSTEM. WATER SERVICE PRESSURE SHOULD BE A MINIMUM OF 60PSI AND NO GREATER THAN 80PSI AT A RESIDUAL FLOW OF 35GPM DOWNSTREAM OF ANY METER, SUB-METER, RP2 BACKFLOW PREVENTER OR PRV. CONTRACTOR SHALL ALERT ENGINEER TO A POTENTIAL LOW PRESSURE CONDITION. IF BOOSTER PUMP IS REQUIRED, THE LANDLORD SHALL PROVIDE AN ADEQUATELY SIZED (GOULDS - AQUAVAR AB1 VARIABLE SPEED CONSTANT PRESSURE SYSTEM) BOOSTER PUMP. LOCATION OF PRESSURE BOOSTER PUMP SHALL BE IN DESIGNATED LOCATION IN TENANT'S MECHANICAL ROOM. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777).



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120

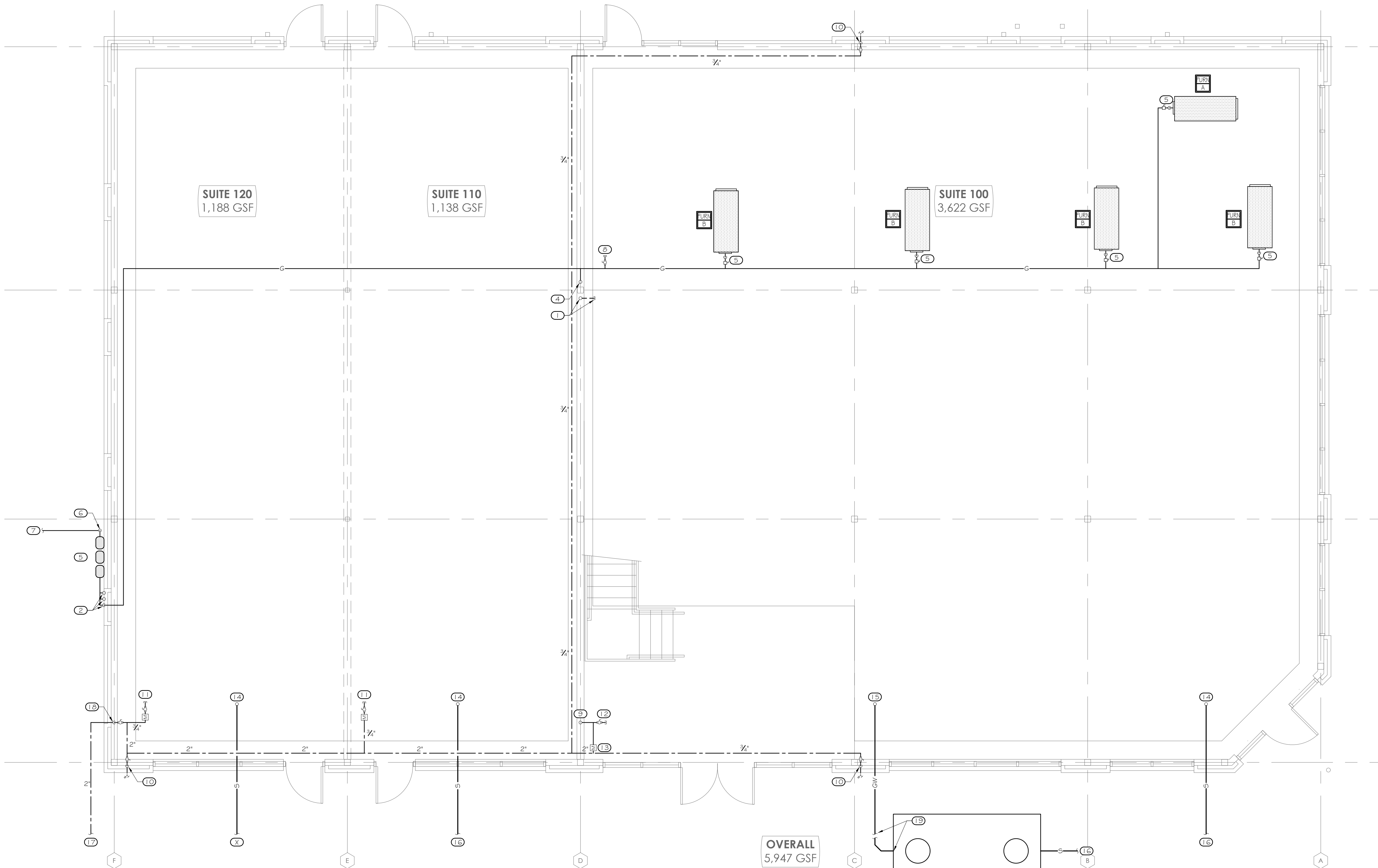


PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

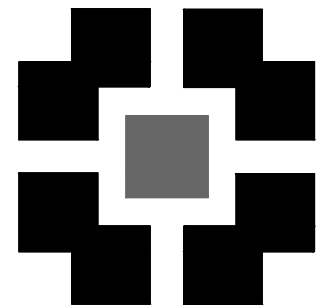
ISSUE DATE	12/23/2024
DRAWN BY	TS
CHECKED BY	MR
PMD PROJ #	23039

FLOOR PLAN:
GROUND
LEVEL

SHEET #
P1.1



01 FLOOR PLAN: GROUND LEVEL
P1.1 SCALE: 1/4"= 1'-0"



**PLACE
MAKER
DESIGN**



**PROFICIENT
ENGINEERING**
3150 Holcomb Bridge Road
Norcross, Georgia 30071
404.330.9798
PROJECT # 124676

- KEYNOTES
- 1

3" VENT STUB CAPPED O/H & 3" V UP TO VTR
- 2

TWO (2) NATURAL GAS LINES FROM GAS METER INSTALLATION UP ON EXTERIOR OF BUILDING TO ROOF.
- 3

NATURAL GAS O/H TIGHT TO STRUCTURE & DROP TO FURNACE W/SHUTOFF VALVE, DIRT LEG & UNION (SEE DETAIL)
- 4

NATURAL GAS UP FROM LEVEL BELOW & ROUTE O/H TIGHT TO STRUCTURE
- 5

3/4" CW UP FROM LEVEL BELOW & ROUTE O/H TIGHT TO STRUCTURE
- 6

3/4" VALVED CW O/H & DROP TO FREEZEPROOF HOSE BIBB

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



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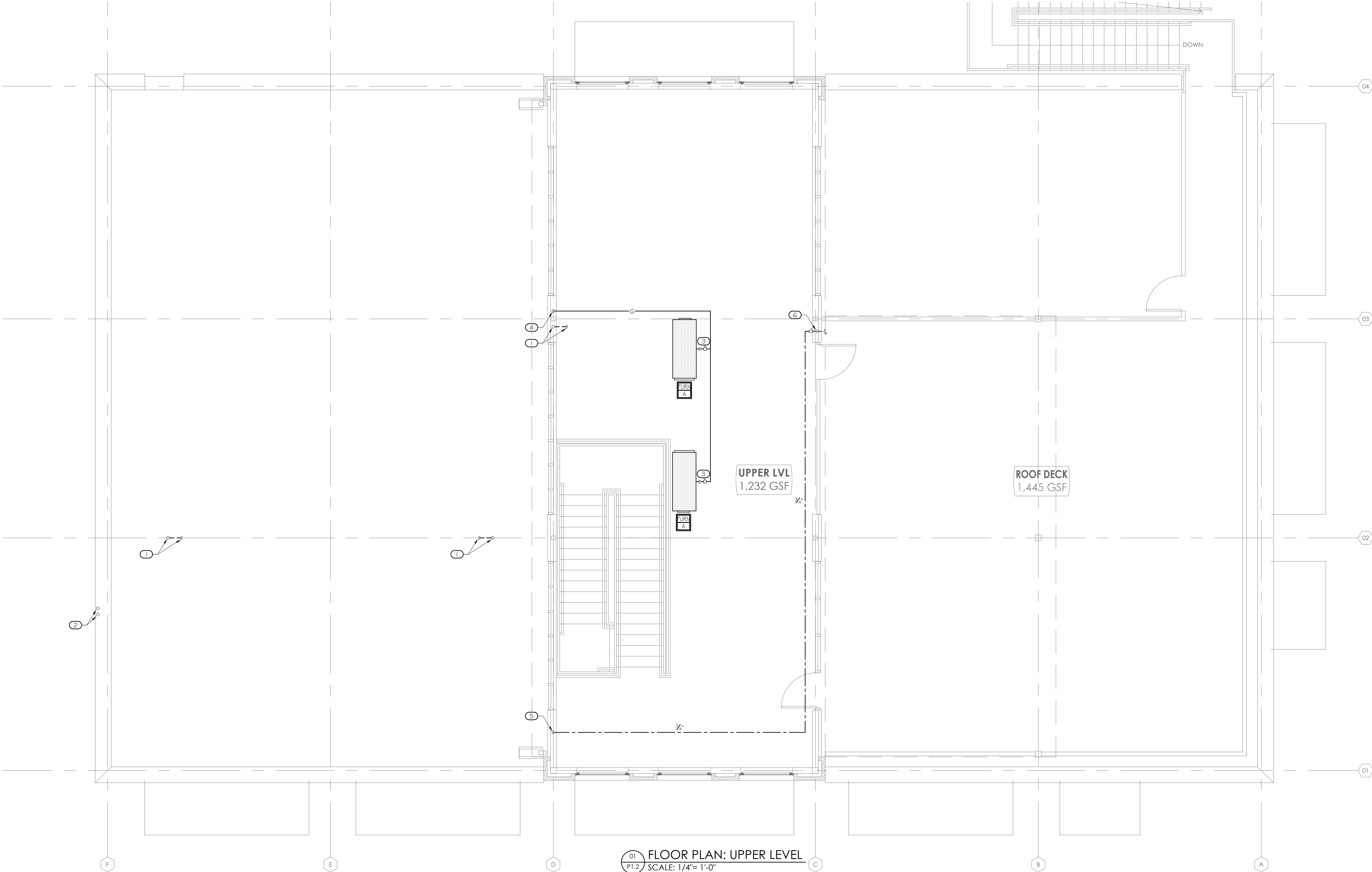
23039

SHEET #

01

FLOOR PLAN:
UPPER LEVEL

P1.2



01 FLOOR PLAN: UPPER LEVEL
P1.2 SCALE: 1/4"= 1'-0"

- KEYNOTES
- 1

3" VTR. CAP TOP OF PIPE AT ROOF, TO BE REMOVED AT TIME OF TENANT FITOUT
- 2

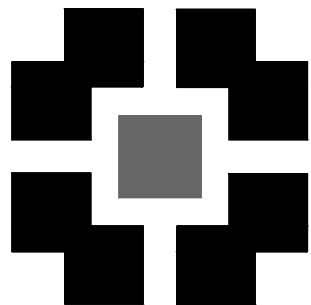
TWO (2) NATURAL GAS LINES ON ROOF & DOWN ON EXTERIOR OF BUILDING TO GAS METER INSTALLATION.
- 3

NATURAL GAS CONNECTION TO ROOFTOP UNIT W/SHUTOFF VALVE, DIRT LEG & UNION (SEE DETAIL)



PROFICIENT
ENGINEERING

3150 Holcomb Bridge Road
Norcross, Georgia 30071
404.330.9798
PROJECT # 124676



**PLACE
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21 LEAKE STREET

BUILDING 01

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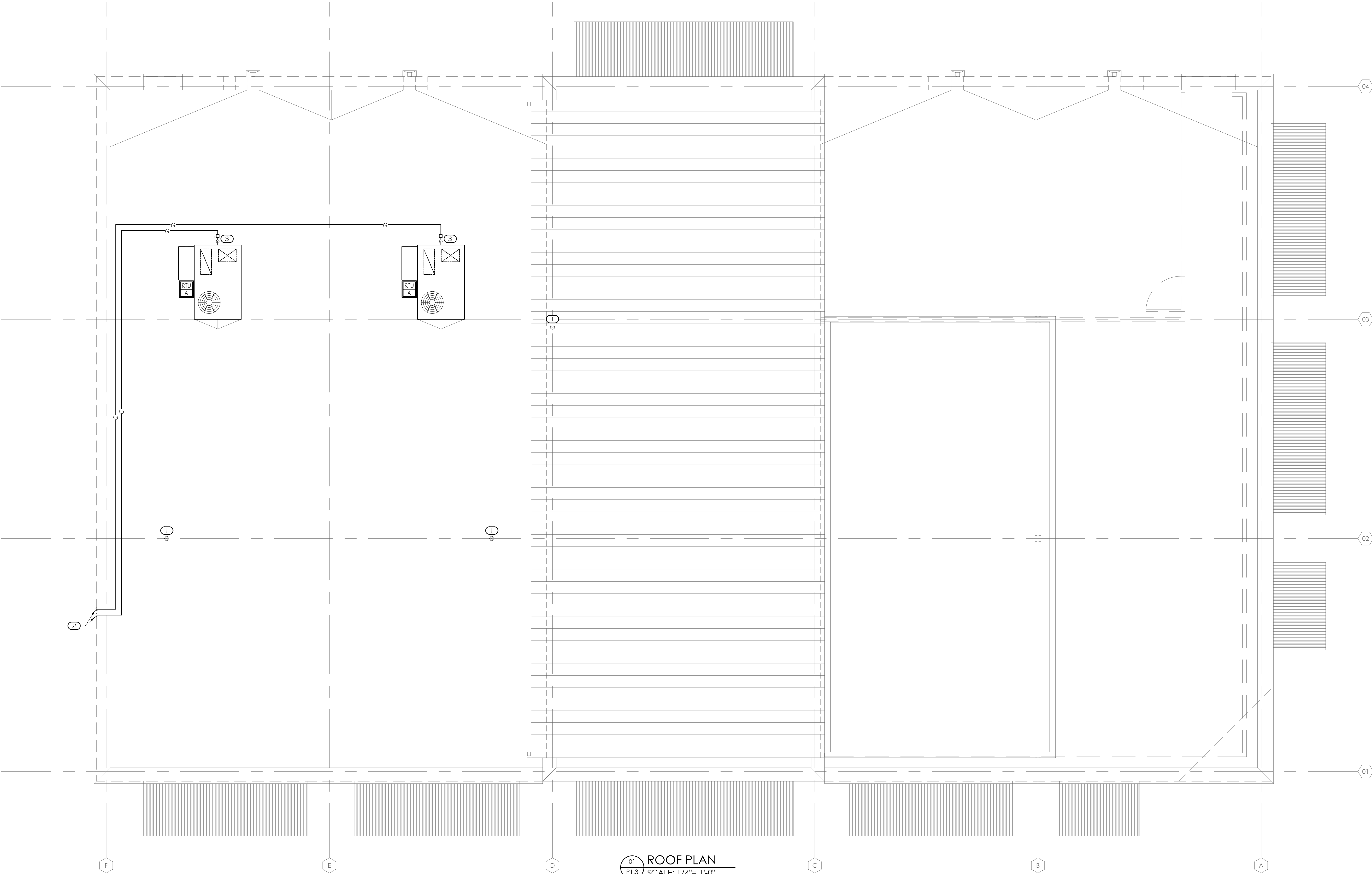
MR

PMD PROJ #

23039

SHEET #

P1.3



01

ROOF PLAN

P1.3

SCALE: 1/4"= 1'-0"

SPECIFICATIONS

GENERAL

CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.

THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR.

ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN.

ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

THE WORK INCLUDES, BUT NOT LIMITED TO:
THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER, INCLUDING OWNER PROVIDED EQUIPMENT.
LIGHTING CONTROL
LIGHTING FIXTURES

EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE.

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2020, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS.

ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS.

IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT.
IEEE, IEEE, IEC, IEC, ASHRAE 90.1, NFPA, NEMA, UL, ADA

THE MANUFACTURERS PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE SPECIFICATIONS OR CONTRACT DOCUMENTS.

ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID.

CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION.

ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL COSTS.

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

PRODUCTS AND WORK

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITERS' REQUIREMENTS AND BEAR THE UNDERWRITERS LABORATORIES' SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURERS DESCRIPTION AND SPECIFICATION.

CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS.

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.
OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.
OUTDOORS UNDERGROUND: TYPE EPC-40-PVC
OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.
BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS.
INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT. INDUORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.
INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
INDOORS DAMP OR WET LOCATIONS: IMC.
INDOORS LOW-VOLTAGE CABLES: EMT.

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER: LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER, 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.
METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

COPPER CONDUCTORS #8 OR LARGER: LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:

PIRELLIE, SOUTHWIRE, AETNA, REPUBLIC, AFC, ENCORE WIRE, KERITE

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

CONTRACTOR SHALL MAKE ADEQUATE ADJUSTMENT TO CONDUIT SIZES INDICATED SHOULD ALTERNATIVE CONDUCTOR INSULATION OR MATERIAL BE UTILIZED.

SPECIFICATIONS

MOLDED CASE CIRCUIT BREAKER:

INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS.

APPROVED MANUFACTURERS:
GENERAL ELECTRIC
CUTLER HAMMER
SQUARE D
SIEMENS

THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS; TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER.

BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS.

BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED.

SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

OVERCURRENT DEVICES RATED 1,000 AMPERES AND LARGER, SERVING LOADS GREATER THAN 150 VOLTS TO GROUND SHALL BE EQUIPPED WITH GROUND FAULT PROTECTION OF EQUIPMENT (GFPF) AS REQUIRED BY NEC ARTICLES 210.13 AND 230.95.

LIGHTING FIXTURE

SUBMITTAL:
SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA.

REFER TO THE "LIGHTING FIXTURE SCHEDULE" IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES.

PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE.

EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ONWHICH IT IS INSTALLED.

FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION.

PANELBOARD

SUBMITTAL:
INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY CURVES.

LABELED PER UL #67 AND #50, CONFORM WITH NEMA #250 AND PB1, NFPA #70-384 AND 70-373.

ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA ITS SERVING.

APPROVED MANUFACTURERS:
GENERAL ELECTRIC
CUTLER HAMMER
SQUARE D
SIEMENS

LIGHTING CONTROL

TIME SWITCHES:
SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917.
20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM.

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND TIME CLOCK.

INDOOR OCCUPANCY SENSORS:
WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE POWER PACK.

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH UL773A. SENSOR IS POWERED FROM POWER PACK.

POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC.
AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX);
TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.

DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND ULTRASONIC DETECTION METHOD.

GROUNDING AND BONDING

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6 OR LARGER.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

ELECTRICAL GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2020.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE).

REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, PP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR E 199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48-INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

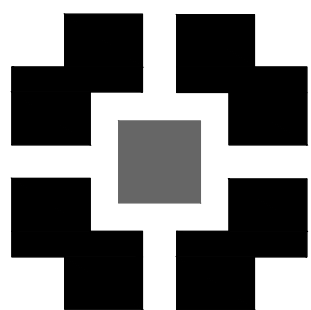
FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNERS REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

LEGEND		
SYMBOLS	DESCRIPTION	TYPICAL MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
	JUNCTION BOX FLUSH IN FINISHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
	SWITCH	42" AFF
	SWITCH - 3 WAY	42" AFF
	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
	SWITCH - WALL MTD, DIMMING	42" AFF
	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
	TV OUTLET	18" AFF
	TELEPHONE OUTLET	18" AFF
	TELEPHONE OUTLET, SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DATA OUTLET	18" AFF
	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH, SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH, SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
	MOTOR	
	HOME RUN WITH WIRE TICKS, XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL , (3) HOT III & (1) GROUND •	
	SMOKE DETECTOR, CEILING / WALL MOUNTED	
	HEAT DETECTOR, CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

ABBREVIATIONS			
AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECPT	RECEPTACLE
CU	COPPER	SPD	SURGE PROTECTIVE DEVICE
DN	DOWN	TEL	TELEPHONE
EC	EMPTY CONDUIT	TTB	TELEPHONE TERMINAL BOARD
ELEC	ELECTRICAL	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF



PLACE
MAKER
DESIGN

REV #	DATE	DESCRIPTION

21 LEAKE STREET
BUILDING 01
CARTERSVILLE, GEORGIA 30120



PLACE MAKER DESIGN
280 INTERSTATE NORTH CIRCLE SE
SUITE 510
ATLANTA, GEORGIA 30339
404.549.4499

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SHEET #

GENERAL

E0.1

Diagram illustrating the grounding system connections for a building, showing the main bonding jumper, service disconnect equipment, building steel, and ground rods.

Labels and components shown in the diagram:

- INTERSYSTEM BONDING TERMINATION
- #4 CU
- #6 CU
- TO TELEPHONE TERMINAL BOARD
- TO CATV
- GROUNDING CLAMP JUMPER
- 3/4" x 10' GROUND ROD (MIN. 6' APART)
- MAIN BONDING JUMPER SIZE ACCORDING TO NEC TABLE 250.102(C)(1)
- MATCH ONE-LINE GROUND (⊕) WIRE SIZE
- SERVICE DISCONNECT EQUIPMENT
- SERVICE ENTRANCE CONDUIT
- METAL WATER SERVICE
- MATCH ONE-LINE GROUND (⊕) WIRE SIZE
- BUILDING STEEL
- ROD ELECTRODE ENCASED IN BUILDING FOOTING AS PER 250.52(A)(5)

DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER
				FAULT	X	R	DEVICE	FAULT	X	R	SIZE
WIREWAY	36,726	65,000	120V	35,876	0.003212	0.0009332	UTILITY	14,659	0.002825	0.0005649	(3)#350kcmil
D5C.100	31,855	42,000	120V	31,059	0.003671	0.001204	WIREWAY	35,876	0.003212	0.0009332	600kcmil
100	17,679	22,000	120V	16,991	0.006462	0.00285	D5C.100	31,059	0.003671	0.001204	600kcmil
D5C.110	28,294	42,000	120V	27,749	0.003814	0.002037	WIREWAY	35,876	0.003212	0.0009332	#3/0
110	15,543	22,000	120V	15,312	0.00566	0.005421	D5C.110	27,749	0.003814	0.002037	#3/0
D5C.120	27,388	42,000	120V	26,872	0.003895	0.002185	WIREWAY	35,876	0.003212	0.0009332	#3/0
120	18,158	22,000	120V	17,879	0.00509	0.004376	D5C.120	26,872	0.003895	0.002185	#3/0
H	14,728	22,000	120V	14,624	0.004162	0.007071	WIREWAY	35,876	0.003212	0.0009332	#6

Panel

110

ROOM

MOUNTING

FED FROM

NOTE

ROOM

SURFACE

DSC. 110

NEW

VOLTS

BUS AMPS

NEUTRAL

208Y/120V 3P 4W

200

100%

AIC

22,000

MAIN BKR

MLO

LUGS

STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	40/3	10.1	RTU-A		a	2	20/1	0.0	SPACE
3					b	4	20/1	0.0	SPACE
5					c	6	20/1	0.0	SPACE
7	20/1	0.2	RECEPTACLE		a	8	20/1	0.0	SPACE
9	20/1	0.2	RECEPTACLE		b	10	20/1	0.0	SPACE
11	20/1	0.0	LIGHTING		c	12	20/1	0.0	SPACE
13	20/1	0.5	SIGNAGE		a	14	20/1	0.0	SPACE
15	20/1	1.0	TEL BACKBOARD		b	16	20/1	0.0	SPACE
17	20/1	0.0	SPACE		c	18	20/1	0.0	SPACE
19	20/1	0.0	SPACE		a	20	20/1	0.0	SPACE
21	20/1	0.0	SPACE		b	22	20/1	0.0	SPACE
23	20/1	0.0	SPACE		c	24	20/1	0.0	SPACE
25	20/1	0.0	SPACE		a	26	20/1	0.0	SPACE
27	20/1	0.0	SPACE		b	28	20/1	0.0	SPACE
29	20/1	0.0	SPACE		c	30	20/1	0.0	SPACE
31	20/1	0.0	SPACE		a	32	20/1	0.0	SPACE
33	20/1	0.0	SPACE		b	34	20/1	0.0	SPACE
35	20/1	0.0	SPACE		c	36	20/1	0.0	SPACE
37	20/1	0.0	SPACE		a	38	20/1	0.0	SPACE
39	20/1	0.0	SPACE		b	40	20/1	0.0	SPACE
41	20/1	0.0	SPACE		c	42	20/1	0.0	SPACE

		CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	10.1	2.5	(25%)	NONCONTINUOUS	1.0	1.0	(100%)	
RECEPTACLES	0.9	0.9	(50%>10)	HEATING	10.1	10.1	(100%)	
				COOLING	10.1	0.0	(0%)	
				TOTAL LOAD		14.5		
				BALANCED 3-PHASE		40.2 A		
				LOAD				
				PHASE A		101%		
				PHASE B		114%		
				PHASE C		84.6%		

UTILITY

(3)3" C, 3#350kcmil, #350kcmil N, #2/0G

#2/0 CU

NEW WIREWAY
208Y/120V 3P 4W
DEMAND KVA: 86.9
DEMAND AMPS: 241
AIC RATING: 65,000
ENCLOSURE: NEMA 3R

NEW METER
1" C, 3#6, #6N, #1/0G

NEW DSC 120
208Y/120V 3P 4W
FRAME: 200 A
FUSE: 200 A
ENCLOSURE: NEMA 3R
DEMAND KVA: 14.5
DEMAND AMPS: 40.2
AIC RATING: 42,000

NEW METER
2" C, 3#3/0, #3/0N, #6G

NEW DSC 110
208Y/120V 3P 4W
FRAME: 200 A
FUSE: 200 A
ENCLOSURE: NEMA 3R
DEMAND KVA: 14.5
DEMAND AMPS: 40.2
AIC RATING: 42,000

NEW CT & METER
3-1/2" C, 3-600kcmil, 600kcmil N, #1G

NEW DSC 100
208Y/120V 3P 4W
FRAME: 400 A
FUSE: 400 A
ENCLOSURE: NEMA 3R
DEMAND KVA: 61.7
DEMAND AMPS: 171
AIC RATING: 42,000

NEW PANEL H (HOUSE)
208Y/120V 3P 4W
BUS: 60 A
MAIN: 60 A MCB
DEMAND KVA: 0.281
DEMAND AMPS: 0.781
AIC RATING: 22,000

NEW PANEL 120
208Y/120V 3P 4W
BUS: 200 A
MAIN: MLO
DEMAND KVA: 14.5
DEMAND AMPS: 40.2
AIC RATING: 22,000

NEW PANEL 110
208Y/120V 3P 4W
BUS: 200 A
MAIN: MLO
DEMAND KVA: 14.5
DEMAND AMPS: 40.2
AIC RATING: 22,000

NEW PANEL 100
208Y/120V 3P 4W
BUS: 400 A
MAIN: MLO
DEMAND KVA: 61.7
DEMAND AMPS: 171
AIC RATING: 22,000

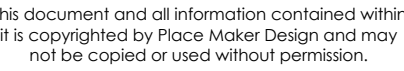


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ENGINEERING

3150 Holcomb Bridge Road
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404.330.9798
PROJECT # 124676



21 LEAKE STREET
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CARTERSVILLE, GEORGIA 30120



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E0.2

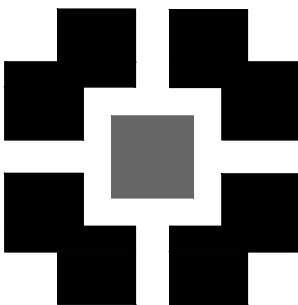
Panel H		ROOM MOUNTING SURFACE		VOLTS 208Y/120V 3P 4W		AIC 22,000	
		FED FROM WIREWAY		BUS AMPS 60		MAIN BKR 60	
		NOTE NEW		NEUTRAL 100%		LUGS STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.2	RECEPTACLE	a 2	20/1	0.0	SPACE
3	20/1	0.0	LIGHTING	b 4	20/1	0.0	SPACE
5	20/1	0.0	LIGHTING	c 6	20/1	0.0	SPACE
7	20/1	0.0	SPACE	a 8	20/1	0.0	SPACE
9	20/1	0.0	SPACE	b 10	20/1	0.0	SPACE
11	20/1	0.0	SPACE	c 12	20/1	0.0	SPACE
13	20/1	0.0	SPACE	a 14	20/1	0.0	SPACE
15	20/1	0.0	SPACE	b 16	20/1	0.0	SPACE
17	20/1	0.0	SPACE	c 18	20/1	0.0	SPACE
		CONN KVA	CALC KVA			CALC KVA	
LIGHTING		0.1	0.1	TOTAL LOAD		0.3	
RECEPTACLES		0.2	0.2	(125%) (50%>10)		BALANCED 3-PHASE LOAD	
				PHASE A		207%	
				PHASE B		44.6%	
				PHASE C		48.3%	

GENERAL LUMINAIRE SCHEDULE					
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
A		(1) 6W LED	LED EXTERIOR SURFACE MOUNT	MILLENIUM LIGHTING: RWHS14-SB-R5CM-R5CK-RWG14	120V 1P 2W
B		(1) 6W LED	LED EXTERIOR WALL MOUNT RLM TYPE / WAREHOUSE SHADE	MILLENIUM LIGHTING: RWHS14-SB-RGN15-RWG14	120V 1P 2W
T		(2) 1.8W LED	EMERGENCY LIGHTING UNIT	EMERGI-LITE EL-2LED	120V 1P 2W
XC		(2) 1.8W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	EMERGI-LITE ELXN400 LED	120V 1P 2W
XR		(1) INCLUDED	REMOTE LAMP HEAD	COOPER LIGHTING SURE-LITE SEL SRP/5RFD	120V 1P 2W

GENERAL SCHEDULE						
CALLOUT	SYMBOL	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU-A		6.05	50/2	100-19,21	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-A		6.05	50/2	100-23,25	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-A		6.05	50/2	100-15,17	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-B		6.47	50/2	100-31,33	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-B		6.47	50/2	100-39,41	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-B		6.47	50/2	100-35,37	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
CU-B		6.47	50/2	100-27,29	3/4"C,2#6,#GN,#1OG	60A/2P/NEMA 3R
FURN-A		1.92	20/1	100-2	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-A		1.92	20/1	100-6	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-A		1.92	20/1	100-4	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-B		1.92	20/1	100-12	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-B		1.92	20/1	100-8	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-B		1.92	20/1	100-10	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FURN-B		1.92	20/1	100-14	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
RTU-A		10.09	40/3	120-1,3,5	3/4"C,3#8,#8N,#1OG	FACTORY DISCONNECT
RTU-A		10.09	40/3	110-1,3,5	3/4"C,3#8,#8N,#1OG	FACTORY DISCONNECT



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**PLACE
MAKER
DESIGN**

REV #	DATE	DESCRIPTION

21 LEAKE STREET

BUILDING 01

CARTERSVILLE, GEORGIA 30120



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PLACE MAKER DESIGN
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404.549.4499

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CHECKED BY	BA
PM/D PROJ #	23039

SHEET TITLE

SCHEDULES

SHEET #

E0.3

KEYNOTES

- 1 WEATHERPROOF J-BOX FOR EXTERIOR SIGN. COORDINATE IN FIELD WITH SIGN INSTALLER, FOR LOCATION AND OTHER REQUIREMENTS, EXTERIOR SIGN TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL AND TIMER.
- 2 ROUTE 2" C WITH PULL STRING TO UTILITY TELEPHONE CABINET.
- 3 LOCATION OF NEW ELECTRICAL DISTRIBUTION EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. ENSURE ADEQUATE CLEARANCE AND WORKING SPACE IS MAINTAINED PER NEC 110.26.
- 4 COORDINATE EXACT LOCATION FOR UTILITY TRANSFORMER WITH CIVIL/ARCHITECT.
- 5 PROVIDE LOCKABLE "WHILE IN USE" COVER FOR WP/GFCI EXTERIOR RECEPTACLE.

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

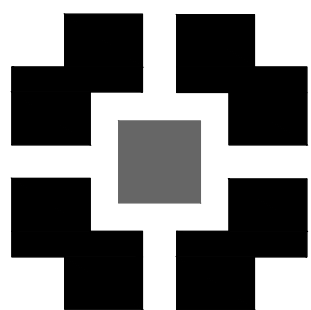
ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

COORDINATE FINAL RECEPTACLE PLACEMENT AND MOUNTING HEIGHT WITH OWNER/ARCHITECT.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

EXTERIOR LIGHTING FIXTURES TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL / TIMER.

COORDINATE AND CONFIRM WITH ARCHITECT ALL LIGHT FIXTURE LOCATIONS AND MODELS PRIOR TO PURCHASE AND INSTALLATION.



PLACE
MAKER
DESIGN

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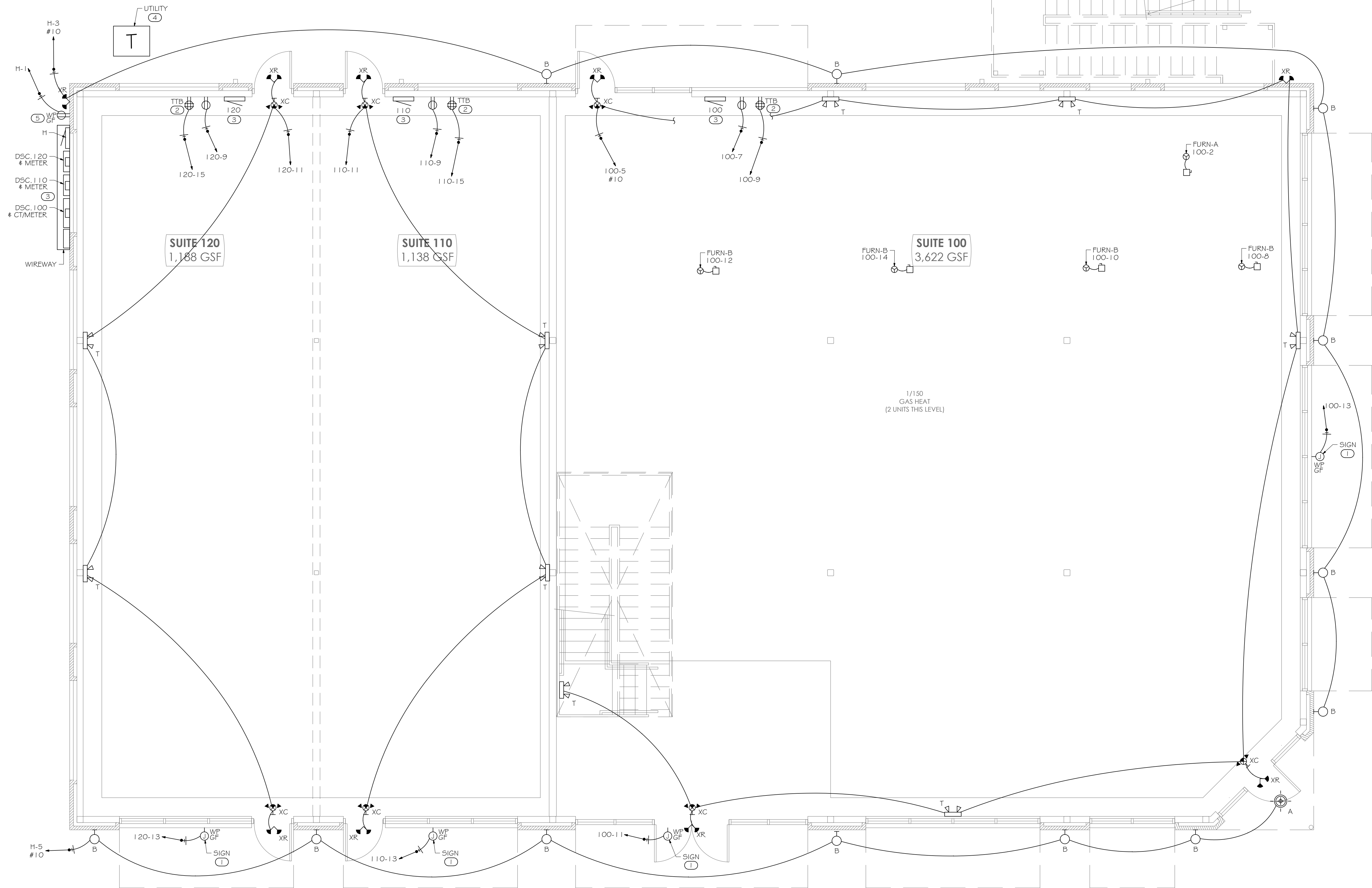


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FLOOR PLAN:
GROUND LEVEL
- ELECTRICAL

SHEET #
E1.1



01 FLOOR PLAN: GROUND LEVEL - ELECTRICAL
SCALE: 1/4"= 1'-0"

KEYNOTES

- ① HVAC EQUIPMENT LOCATED ON ROOF.
- ② INSTALL WP/GFCI DUPLEX RECEPTACLE WITHIN 25' OF MECHANICAL EQUIPMENT. PROVIDE "WHILE IN USE" PROTECTIVE COVER.

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

COORDINATE FINAL RECEPTACLE PLACEMENT AND MOUNTING HEIGHT WITH OWNER/ARCHITECT.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

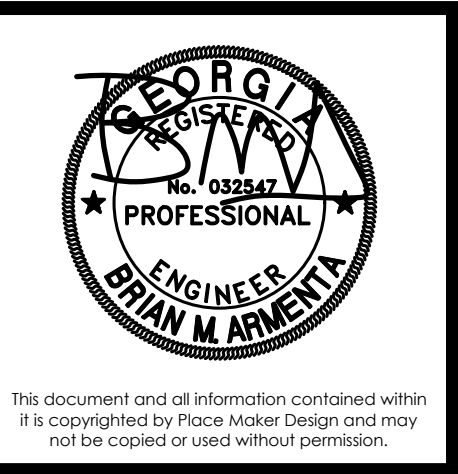
EXTERIOR LIGHTING FIXTURES TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL / TIMER.

COORDINATE AND CONFIRM WITH ARCHITECT ALL LIGHT FIXTURE LOCATIONS AND MODELS PRIOR TO PURCHASE AND INSTALLATION.



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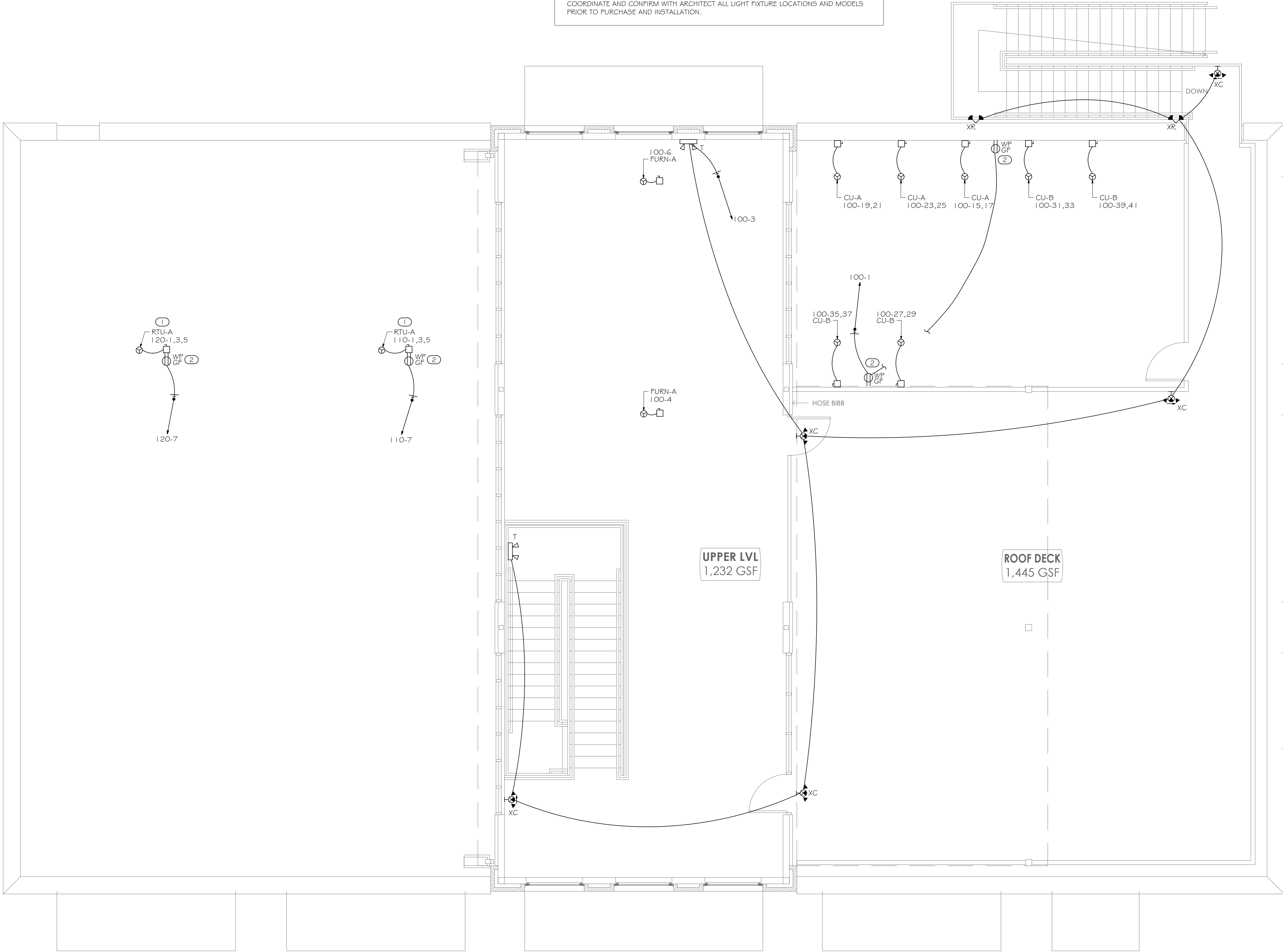


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FLOOR PLAN:
UPPER LEVEL -
ELECTRICAL

SHEET #
E1.2



01 FLOOR PLAN: UPPER LEVEL - ELECTRICAL
SCALE: 1/4"= 1'-0"