

GoTriangle RFQ 24-048

Exhibit A

BOMF Building Additions 2008

(33 pages - including this page)

COMMON ABBREVIATIONS

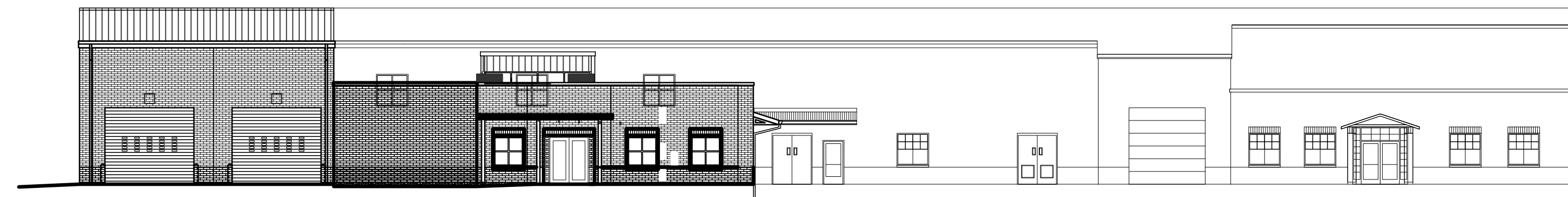
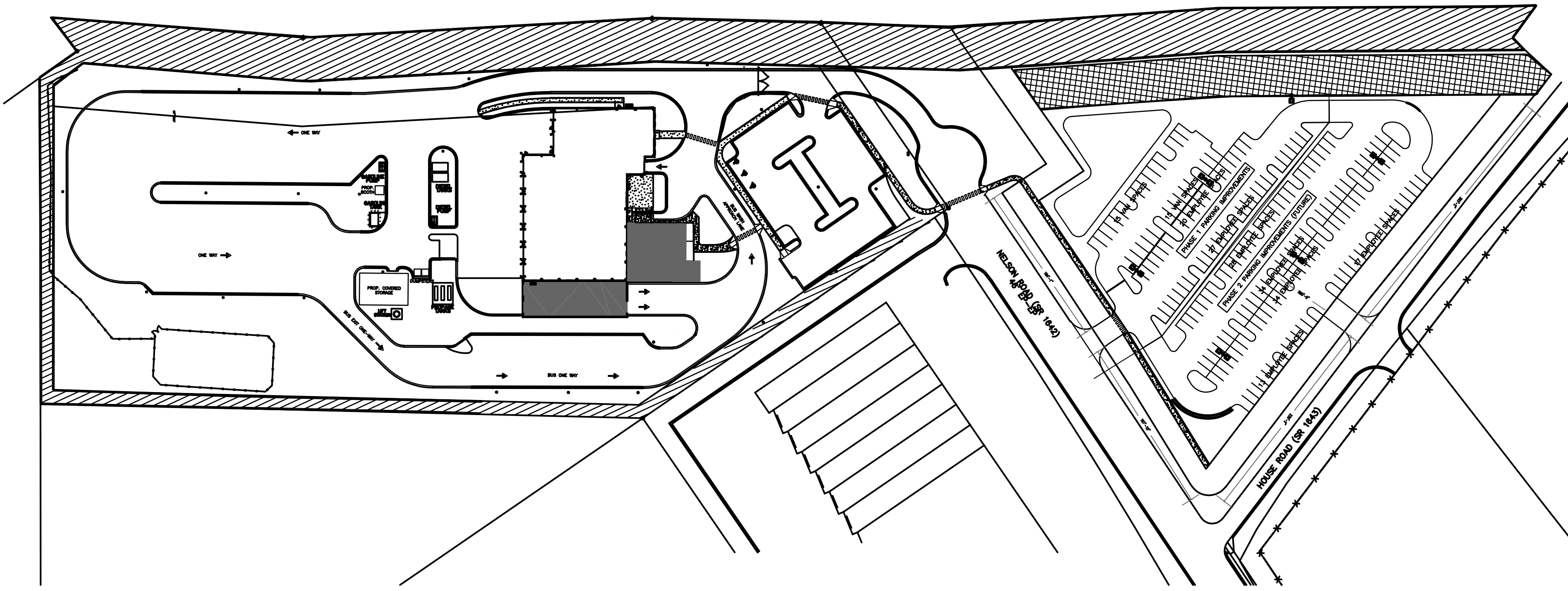
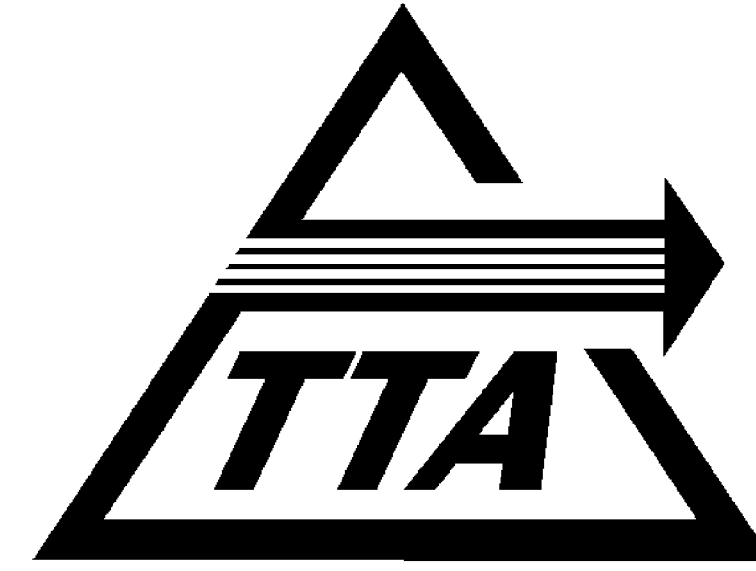
#	NUMBER	HDG	HOT DIP GALVANIZED
%	PERCENT	HORIZ	HORIZONTAL
<	LESS THAN	JAW	IN ACCORDANCE WITH
=	EQUALS	ID	INSIDE DIAMETER
>	GREATER THAN	IN	INCHES
@	AT	INS	INSULATION
A/E	ARCHITECT/ENGINEER	INV EL	INVERT ELEVATION
ABV	ABOVE	LBS	POUNDS
ACI	AMERICAN CONCRETE INSTITUTE	LF	LINEAR FEET
ACM	ACOUSTICAL CEILING TILE	LG	LONG LENGTH, LARGE
AD	ACCESS DOOR	LID	LIQUID
ADA	AMERICANS WITH DISABILITIES ACT	MATL	MATERIAL
ADJ	ADJUSTABLE	MAX	MAXIMUM
AFC	ABOVE FINISHED CEILING	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISHED GRADE	MER	MECHANICAL EQUIPMENT ROOM
AIA	AMERICAN INSTITUTE OF ARCHITECTS	MHT	MOUNTING HEIGHT
ALUM	ALUMINUM	MIN	MINIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MM	MILLIMETER
AP	ACCESS PANEL	MSSS	MATERIAL SAFETY DATA SHEET
APPROX	APPROXIMATE	N/A	NOT APPLICABLE
ARCH	ARCHITECT	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING & MATLS	NO	NUMBER
AUX	AUXILIARY	NOM	NOMINAL
AVG	AVERAGE	NPS	NOMINAL PIPE SIZE
BFC	BELOW FINISHED CEILING	NTS	NOT TO SCALE
BFF	BELOW FINISHED FLOOR	OD	OUTSIDE DIAMETER
BFG	BELOW FINISHED GRADE	OPNG	OPENING
BLDG	BUILDING	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN
BOC	BACK OF CURB	OU	OUTDOOR UNIT
C/C	CENTER TO CENTER	OZ	OUNCE
CIP	CAST IN PLACE	PC	PLUMBING CONTRACTOR
CL	CENTERLINE	PLAM	PLASTIC LAMINATE
CL EL	CENTERLINE ELEVATION	PLWD	PLYWOOD
CLG	CEILING	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	QA	QUALITY ASSURANCE
CMU	CONCRETE MASONRY UNIT	QTY	QUANTITY
COL	COLUMN	REF	REFERENCE
CONC	CONCRETE	REINF	REINFORCE, REINFORCING
CONST	CONSTRUCTION	REQD	REQUIRED
CONT	CONTINUOUS	REV	REVISION
CONTR	CONTRACTOR	RO	ROUGH OPENING
CORR	CORRIDOR	RM	ROOM
CSI	CONSTRUCTION SPECIFICATION INSTITUTE	RPM	REVOLUTIONS PER MINUTE
CU FT	CUBIC FEET	SCH	SCHEDULE
CU IN	CUBIC INCH	SEC	SECTION
CU YD	CUBIC YARD	SIM	SIMILAR
DEMO	DEMOLITION	SPEC	SPECIFICATIONS
DIA	DIAMETER	SQ	SQUARE
DIAG	DIAGONAL	SQ FT	SQUARE FEET
DIV	DIVISION	SQ IN	SQUARE INCH
DN	DOWN	SQ YD	SQUARE YARD
DWG	DRAWING	SS	STAINLESS STEEL
EA	EACH	SSPC	STRUCTURAL STEEL PAINTING COUNCIL
ELEC	ELECTRICAL	STD	STANDARD
EQ	ELECTRICAL CONTRACTOR	STL	STEEL
EW	ELECTRIC WATER COOLER	SUSP	SUSPENDED
EJ	EXPANSION JOINT	T&G	TONGUE AND GROOVE
ELEV	ELEVATION	TEL	TELEPHONE
EPA	ENVIRONMENTAL PROTECTION AGENCY	TEMP	TEMPERATURE
EQ	EQUAL	THK	THICK
EQPT	EQUIPMENT	TOM	TOP OF MASONRY
EW	EACH WAY	TOS	TOP OF STEEL
EXSTG	EXISTING	TYP	TYPICAL
EXT	EXTERNAL OR EXTERIOR	UG	UNDERGROUND
FAO	FINISH ALL OVER	UL	UNDERWRITERS LABORATORY
FBO	FURNISHED BY OWNER	UNF	UNFINISHED
FIN	FINISHED	UNO	UNLESS OTHERWISE NOTED
FFE	FINISHED FLOOR ELEVATION	VEL	VELOCITY
FG	FIBERGLASS	VIF	VERIFY IN FIELD
FE	FIRE EXTINGUISHER	VOL	VOLUME
FIN	FINISH	W	WIDTH
FL FLR	FLOOR	W	WITH
FRP	FIBERGLASS REINFORCED POLYESTER	WD	WOOD
FT	FEET	WF	WIDE FLANGE
FWE	FURNISHED WITH EQUIPMENT	WT	WEIGHT
GALV	GALVANIZED	WWF	WELDED WIRE FABRIC
GC	GENERAL CONTRACTOR	YD	YARD
GL	GLASS	YR	YEAR
GRAV	GRAVITY		
GWB	GYPSUM WALL BOARD		
GS	GALVANIZED STEEL		
GSA	GENERAL SERVICES ADMINISTRATION		

ENGINEERING ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	O&M	OPERATIONS AND MAINTENANCE
AD	ACCESS DOOR	OA	OUTSIDE AIR
ADA	AMERICANS WITH DISABILITIES ACT	OAD	OUTSIDE AIR DAMPER
CD	CEILING DIFFUSER	OD	OUTSIDE DIAMETER
CIP	CAST IRON PIPE	OU	OUTDOOR UNIT
CTG	CEILING TRANSFER GRILLE	PE	PROFESSIONAL ENGINEER
CW	COLD WATER	PH	PHASE
DIFF	DIFFERENCE, DELTA	PKG	PACKAGE
EXH	EXHAUST	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	PTAC	PACKAGED TERMINAL AIR CONDITIONER
EG	EXHAUST GRILLE	RA	RETURN AIR
EH	ELECTRIC HEATER	RG	RETURN GRILLE
FCU	FAN COIL UNIT	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER, FLOOR DRAIN	SOFM	STANDARD CFM
G	GAS	SG	SUPPLY GRILLE
GA	GAUGE	SR	SUPPLY REGISTER
HB	HOSE BIBB	ST	STORM
HDG	HOT DIP GALVANIZED	T	THERMOSTAT
HDPE	HIGH DENSITY POLYETHYLENE	TB	TERMINAL BOX
HP	HORSEPOWER, HEAT PUMP	TEL	TELEPHONE
HTG	HEATING	TEMP	TEMPERATURE
IU	INDOOR UNIT	TG	TRANSFER GRILLE
JB	JUNCTION BOX	UH	UNIT HEATER
LAV	LAVATORY	UL	UNDERWRITERS LABORATORY
LVR	LOUVER	V	VOLTS, SANITARY VENT
LTG	LIGHTING	VEL	VELOCITY
MAU	MAKEUP AIR UNIT	VOL	VOLUME
NEC	NATIONAL ELECTRICAL CODE	VTR	VENT THRU ROOF
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WATTS, WIDTH
NO	NORMALLY OPEN, NUMBER	WR2	MOMENT OF INTERIA
NPS	NOMINAL PIPE SIZE		

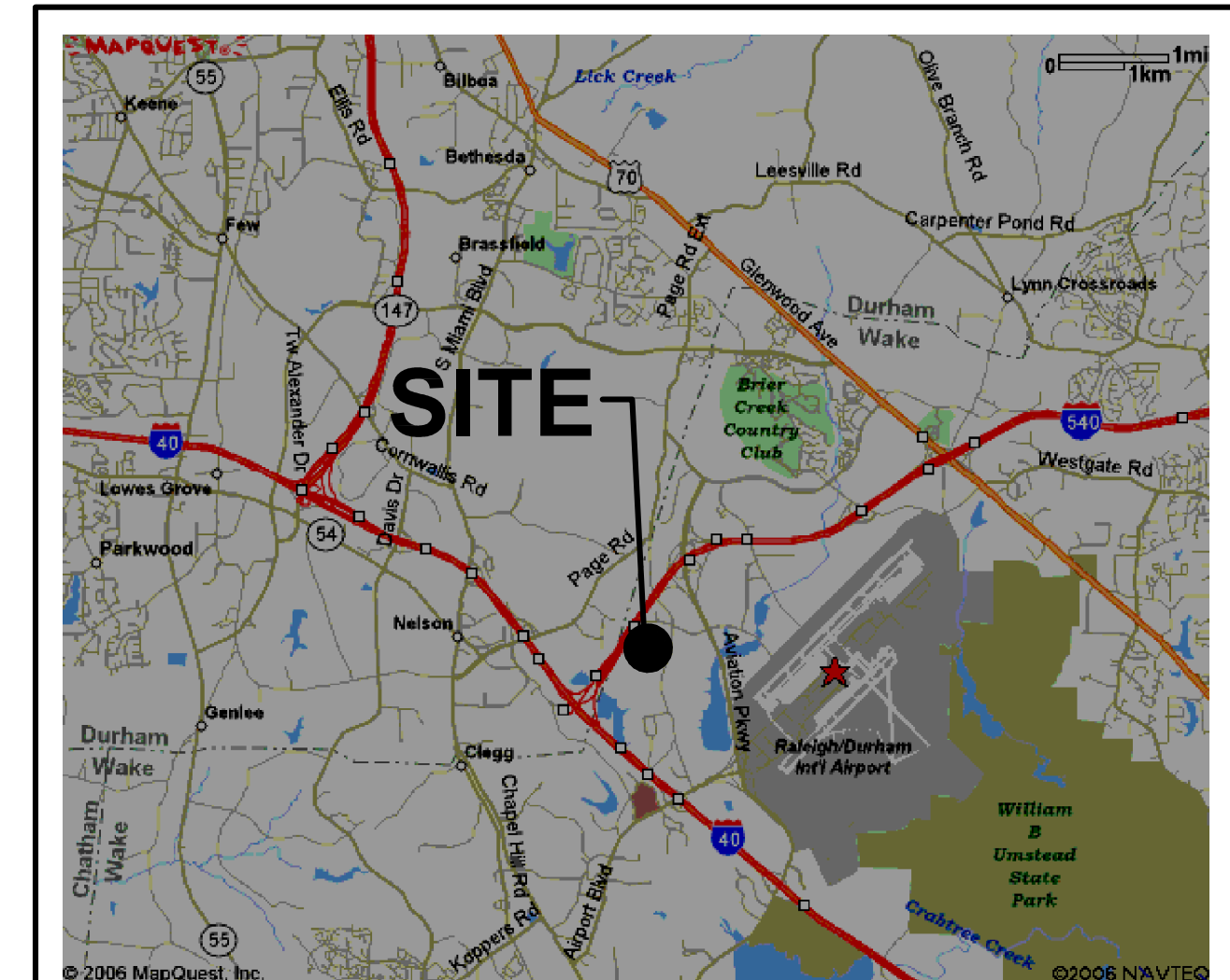
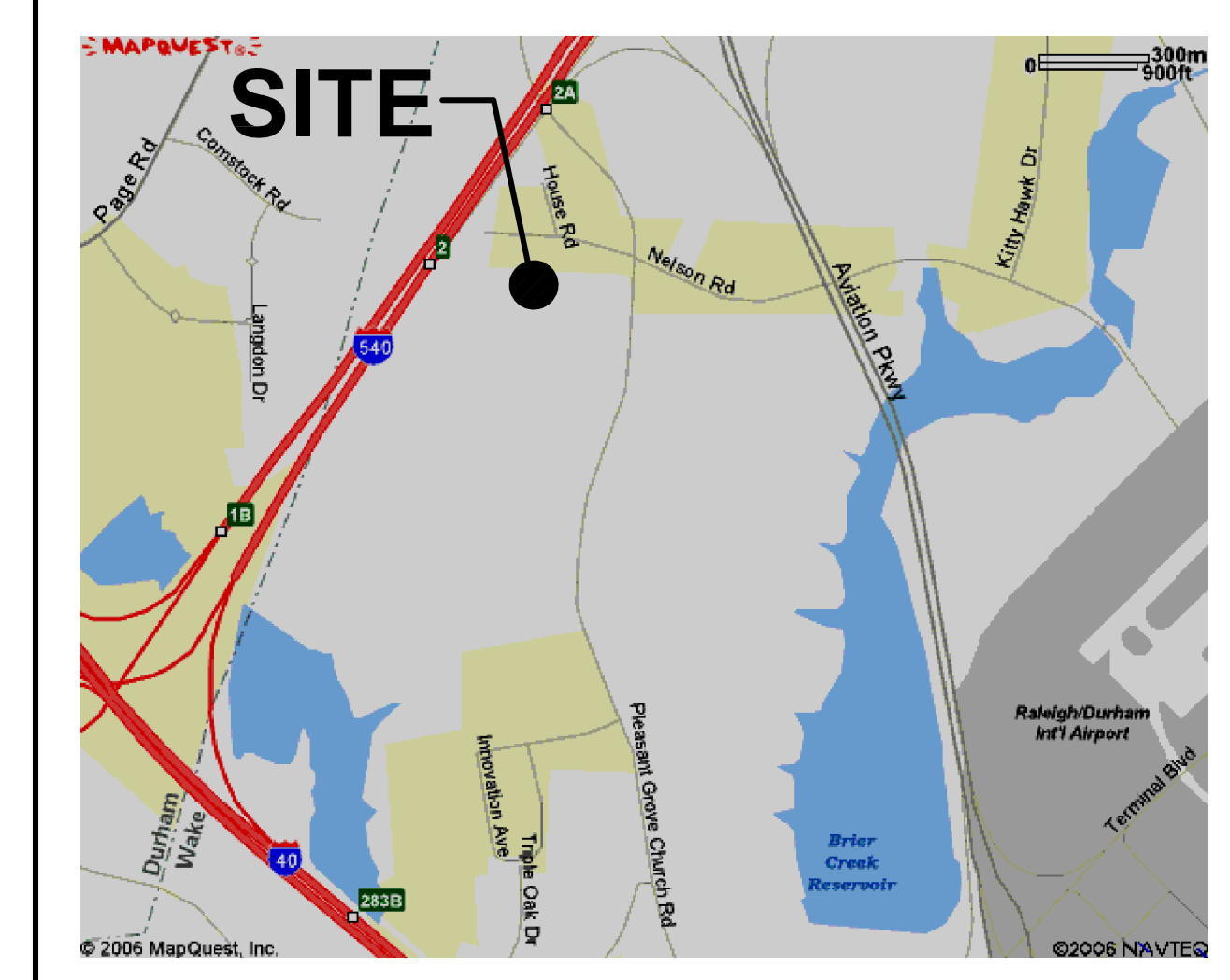
PROJECT DIRECTORY

<p>OWNER REPRESENTATIVE: TRIANGLE TRANSIT AUTHORITY NELSON ROAD CARY, NORTH CAROLINA CONTACT: SHEELA PRABHU PHONE: 919.485.7507 E-MAIL:</p> <p>CIVIL REPRESENTATIVE: MULKEY ENGINEERS & CONSULTANTS P. O. BOX 33127 RALEIGH, NORTH CAROLINA 27636 CONTACT: MICHAEL ALLEN PHONE: 919.851.1912 E-MAIL:</p> <p>LANDSCAPE ARCHITECT: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: ROBERT GRILL PHONE: 336.373.9800 E-MAIL: grill@mmpa.com</p> <p>ARCHITECT: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: KENNETH C. MAYER, JR. PHONE: 336.373.9800 E-MAIL: Ken@mmpa.com</p>	<p>STRUCTURAL ENGINEER OR DESIGNER: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: PAUL BRECKNER PHONE: 336.373.9800 E-MAIL: breckner@mmpa.com</p> <p>MECHANICAL ENGINEER OR DESIGNER: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: NINO SENNATI PHONE: 336.373.9800 E-MAIL: sennati@mmpa.com</p> <p>ELECTRICAL ENGINEER OR DESIGNER: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: BO KIME PHONE: 336.373.9800 E-MAIL: kime@mmpa.com</p> <p>PLUMBING ENGINEER OR DESIGNER: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: MIKE HEGE PHONE: 336.373.9800 E-MAIL: mike@mmpa.com</p> <p>FIRE PROTECTION DESIGNER: MOSER MAYER PHOENIX ASSOCIATES 328 E. MARKET STREET, SUITE 200 GREENSBORO, NORTH CAROLINA 27401 CONTACT: RON DAVIS PHONE: 336.373.9800 E-MAIL: ron@mmpa.com</p>
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CONSTRUCTION DOCUMENTS SUBMITTAL

**ADDITIONS TO MAINTENANCE FACILITY
TRIANGLE TRANSIT AUTHORITY
NELSON ROAD
CARY, NORTH CAROLINA**



INDEX TO DRAWINGS

<p>GENERAL DRAWINGS</p> <p>G1.1 COVER SHEET</p> <p>G1.2 BUILDING CODE SUMMARY, APPENDIX B & DEMOLITION PLAN</p> <p>CIVIL DRAWINGS</p> <p>SEPARATE PACKAGE</p> <p>LANDSCAPE DRAWINGS</p> <p>LA1.1 OVERALL LANDSCAPING PLAN</p> <p>LA2.1 LANDSCAPING - DETAIL AREAS</p> <p>ARCHITECTURAL DRAWINGS</p> <p>A1.1 FLOOR PLAN, PARTITION SCHEDULE, WINDOW AND DOOR SCHEDULES, GENERAL NOTES</p> <p>A2.1 CEILING FLOOR PLAN AND DETAILS</p> <p>A3.1 ENLARGED TOILET PLANS, INTERIOR ELEVATIONS, CASEWORK DETAILS, FINISH PLANS AND SCHEDULE</p> <p>A5.1 BUILDING ELEVATIONS</p> <p>A6.1 BUILDING SECTIONS AND DETAILS</p> <p>A6.2 BUILDING DETAILS</p> <p>A7.1 ROOF PLAN AND DETAILS</p> <p>STRUCTURAL DRAWINGS</p> <p>S1.1 FOUNDATION PLAN</p> <p>S1.2 ROOF FRAMING PLAN</p> <p>S2.1 DETAILS AND NOTES</p> <p>S2.2 DETAILS</p> <p>FIRE PROTECTION DRAWINGS</p> <p>F1.0 GENERAL NOTES AND DETAILS</p> <p>F1.1 SPRINKLER SYSTEM FLOOR PLAN</p>	<p>PLUMBING DRAWINGS</p> <p>P0.1 FIXT. SCHED., SYMBOLS, NOTES, LOAD SUMMARY</p> <p>P1.1 FLOOR PLAN - PLUMBING</p> <p>P2.1 ENLARGED AREA PLUMBING PLANS</p> <p>P3.1 PLUMBING DIAGRAMS AND DETAILS</p> <p>MECHANICAL DRAWINGS</p> <p>M0.1 GENERAL NOTES, LEGENDS AND ABBREVIATIONS</p> <p>M1.1 HVAC FLOOR PLAN</p> <p>M1.2 PARTIAL HVAC ROOF PLAN AND PARTIAL DEMO. PLAN</p> <p>M3.1 MECHANICAL SCHEDULES</p> <p>M4.1 MECHANICAL DETAILS</p> <p>M5.1 CONTROL SCHEMATICS</p> <p>ELECTRICAL DRAWINGS</p> <p>E1.1 SYMBOLS, LUMINAIRE SCHEDULE, DEMOLITION PLAN</p> <p>EP1.1 FIRST FLOOR POWER PLAN</p> <p>EL1.1 FIRST FLOOR LIGHTING PLAN</p> <p>ES1.1 EXTERIOR LUMINAIRE SCHEDULE, SITE PLAN</p> <p>E2.1 DETAILS</p>
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GENERAL NOTES

- 1. NO CHANGES TO ANY ASPECT OF THIS PLAN, INCLUDING BUT NOT LIMITED TO: LANDSCAPING, GRADING, BUILDING ELEVATIONS (ESPECIALLY COLORS), LIGHTING, OR UTILITIES WILL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER REVIEW GROUP OF THE DEPARTMENT OF PLANNING...

SITE DATA

PROPERTY OWNER... RESEARCH TRIANGLE REGIONAL PUBLIC TRANSPORTATION AUTHORITY
PROPERTY ADDRESS... 5201 NELSON ROAD (VACANT LOT)
CARY PROJECT # 05-SP-XXX
PIN #... 0245586 (MAINTENANCE SITE), 0092222 (VACANT LOT)
ZONING... ORD (BOTH PARCELS)

Table with 3 columns: PRE-DEVELOPMENT, POST-DEVELOPMENT, and TOTAL ACRES. Rows include Total Acres, Impervious Acres, Pervious Acres, and % Impervious.

PARKING (MAIN COMPLEX)

Table with 2 columns: EMPLOYEE, EXISTING TO REMAIN, PROPOSED SPACES, TOTAL, HANDICAP SPACES.

PARKING (OVERFLOW LOT)

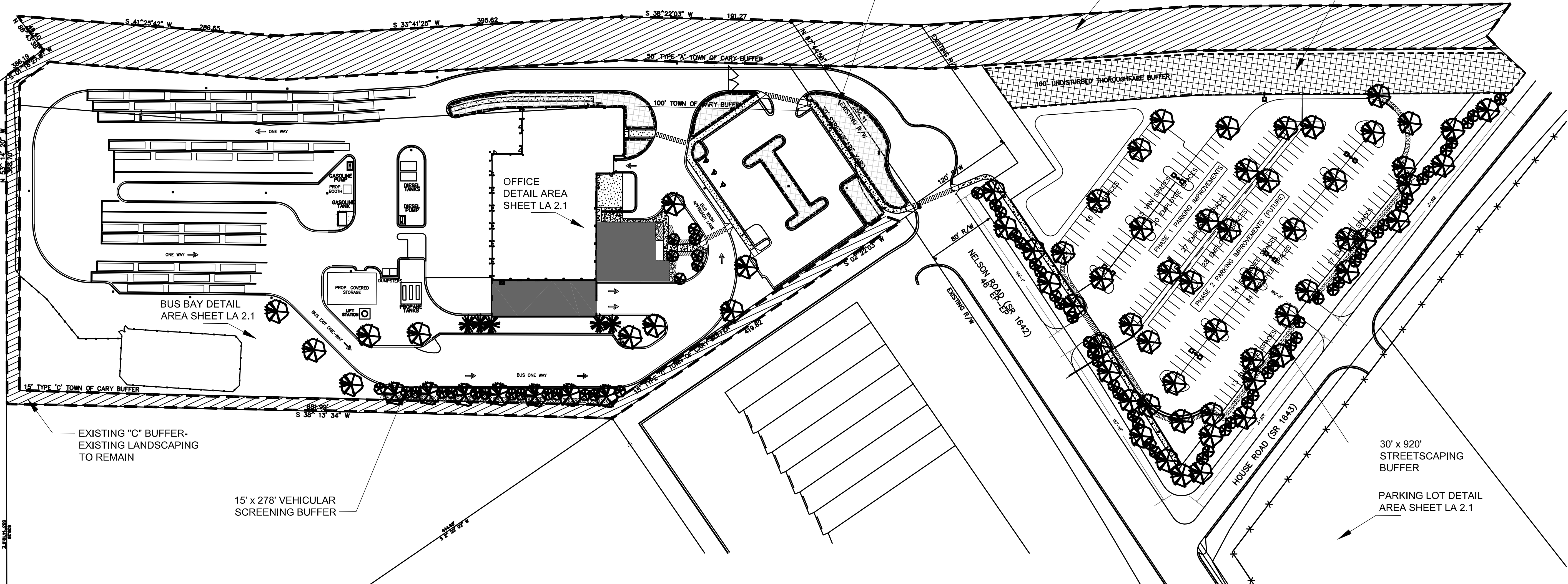
Table with 2 columns: EMPLOYEE, PHASE 1 PROPOSED SPACES, PHASE 2 PROPOSED SPACES, TOTAL.

NOTES

These notes set forth here shall apply to each and every sheet. All site construction shall be in accordance with Town of Cary standards and specifications details and all road construction shall be per NCDOT Standards and Specifications details.

APPROVED TOWN OF CARY

Approved by _____ Date _____
Planning _____ Date _____
Engineering _____ Date _____



1 OVERALL LANDSCAPING PLAN
LA1.1 1"=60'

PLANTING DETAILS
Shrub, Groundcover, and Perennial Planting

PLANTING DETAILS
Tree Planting

SHRUB & GROUND COVER PLANTING DETAIL

TREE PLANTING DETAIL

REVISIONS

Table with columns: NO., DATE, DESCRIPTION. Includes revision 1: TOC 2nd REVIEW COMMENTS.

DATE: APRIL 28, 2006
PROJECT NUMBER: 05111.00 / 05156.00
SCALE: AS NOTED
DRAWN BY: RIG

OVERALL LANDSCAPING PLAN

LA1.1

LANDSCAPE MAINTENANCE PLAN

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION, AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THIS PLAN...

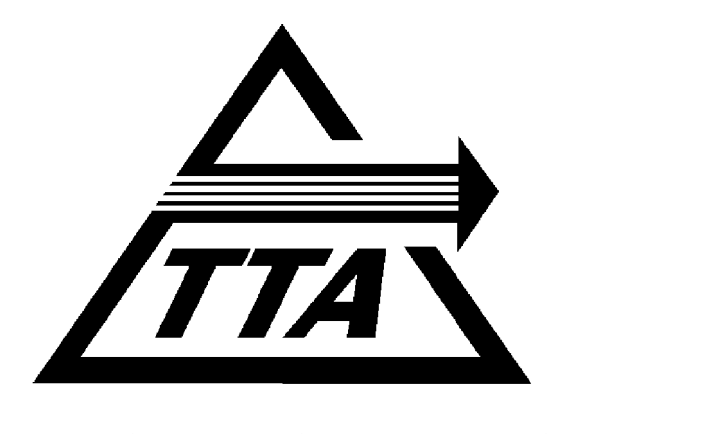
Table with columns: TREES, NO., COMMON NAME, BOTANICAL NAME, SIZE, REM ARKS. Lists trees like Red Maple, Crabapple, etc.

2 LANDSCAPE MAINTENANCE PLAN
LA1.1 NTS

3 PLANT LIST
LA1.1 NTS

4 TREE PLANTING DETAIL
LA1.1 NTS

5 SHRUB & GROUND COVER PLANTING DETAIL
LA1.1 NTS

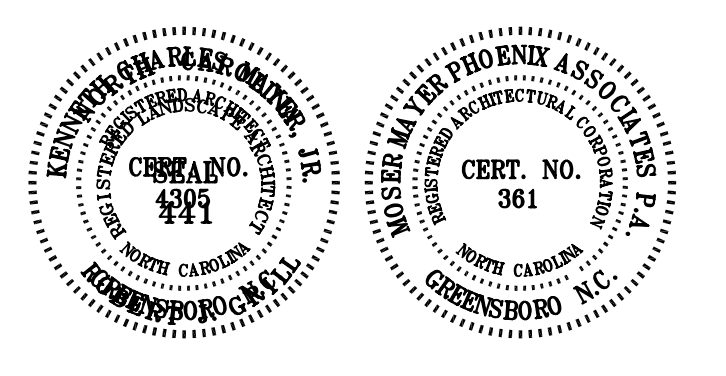


ADDITIONS TO MAINTENANCE FACILITY

5201 NELSON ROAD (MAINTENANCE BLDG)
5210 NELSON ROAD (VACANT LOT)
CARY, NORTH CAROLINA



MOSER MAYER PHOENIX ASSOCIATES, PA
325 E. Market Street, Suite 200
Greensboro, N.C. 27401
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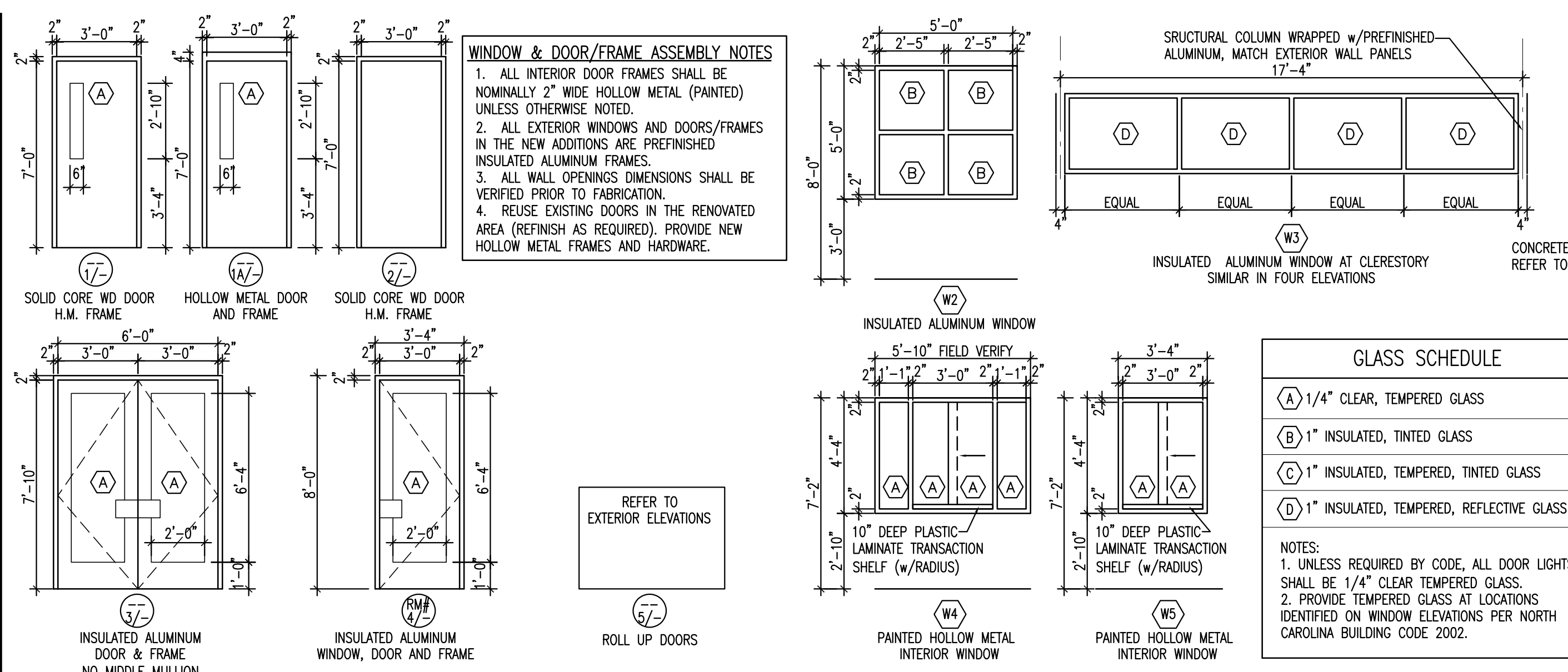
REVISIONS

Table with columns: NO., DATE, DESCRIPTION. Includes revision 1: TOC 2nd REVIEW COMMENTS.

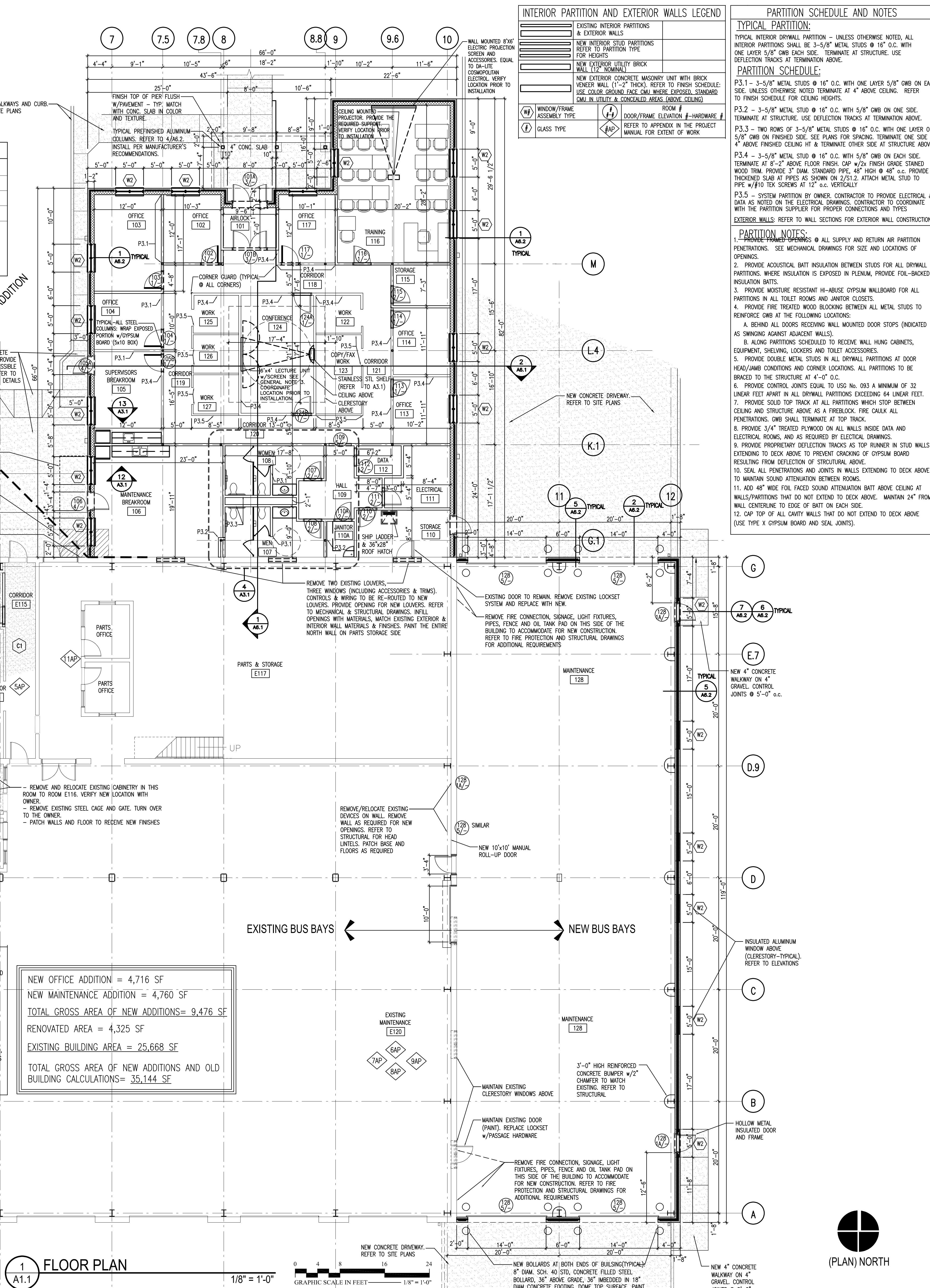
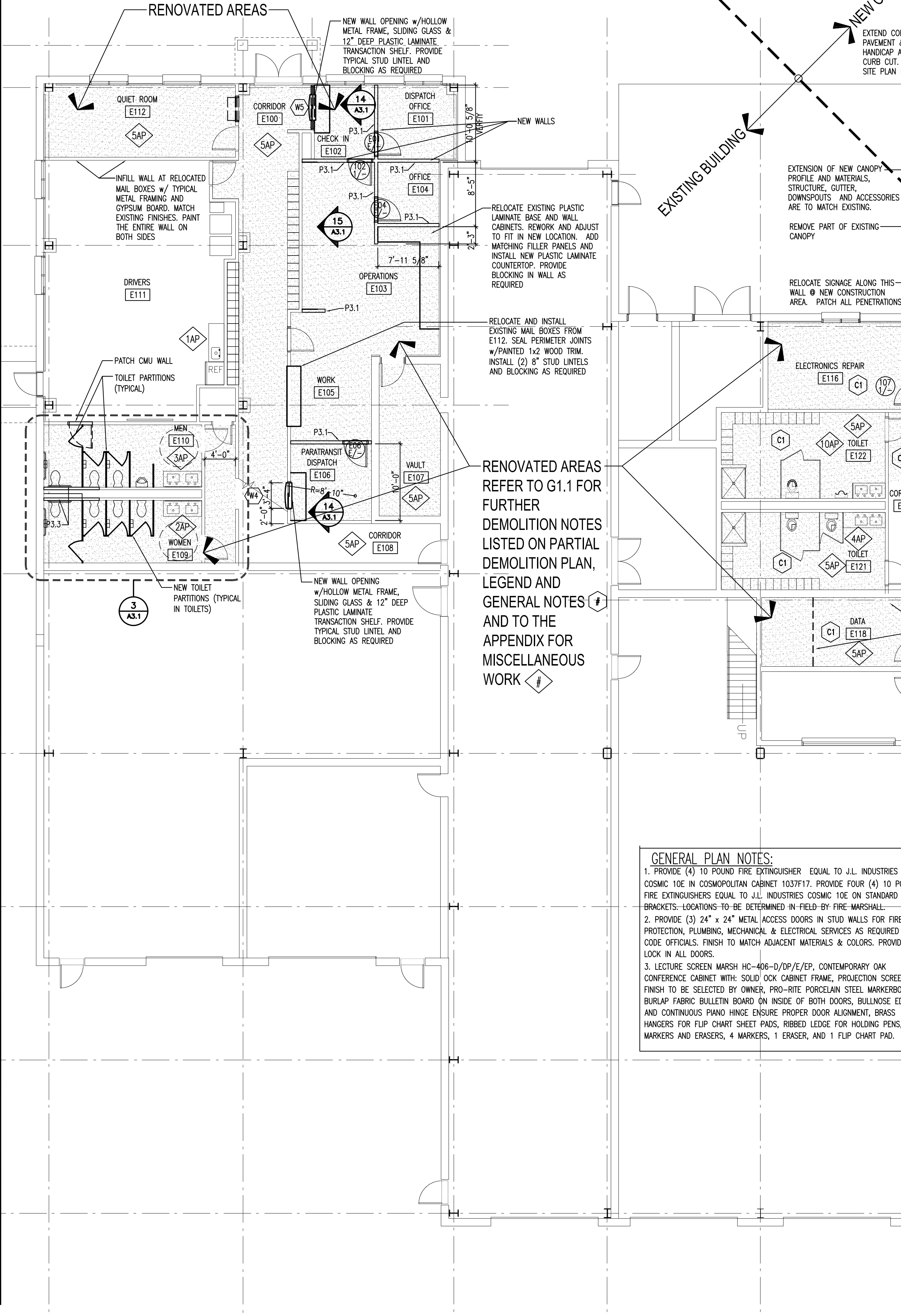
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OVERALL LANDSCAPING PLAN

LA1.1



2 DOOR & WINDOW ELEVATIONS
1/4" = 1'-0"



1 FLOOR PLAN
1/8" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION
01-26-08		RECORD DRAWINGS

DATE: APRIL 28, 2006
PROJECT NUMBER: 05111.00 05156.000
SCALE:
DRAWN BY:

FIRST FLOOR ARCHITECTURAL PLAN

A1.1

(PLAN) NORTH

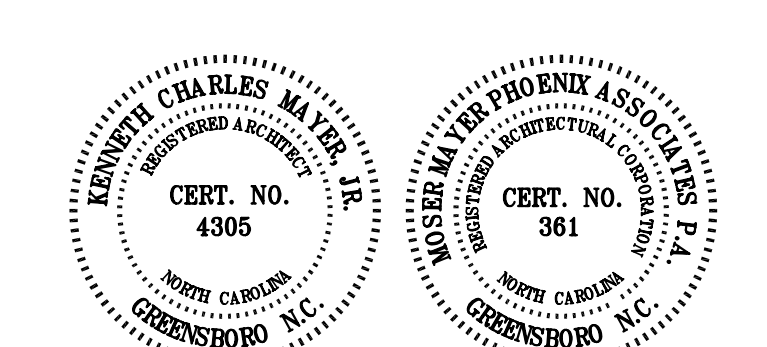
TTA

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5201 NELSON ROAD (MAINTENANCE BLDG)
5210 NELSON ROAD (VACANT LOT)
CARY, NORTH CAROLINA

MOSER MAYER PHOENIX ASSOCIATES, PA

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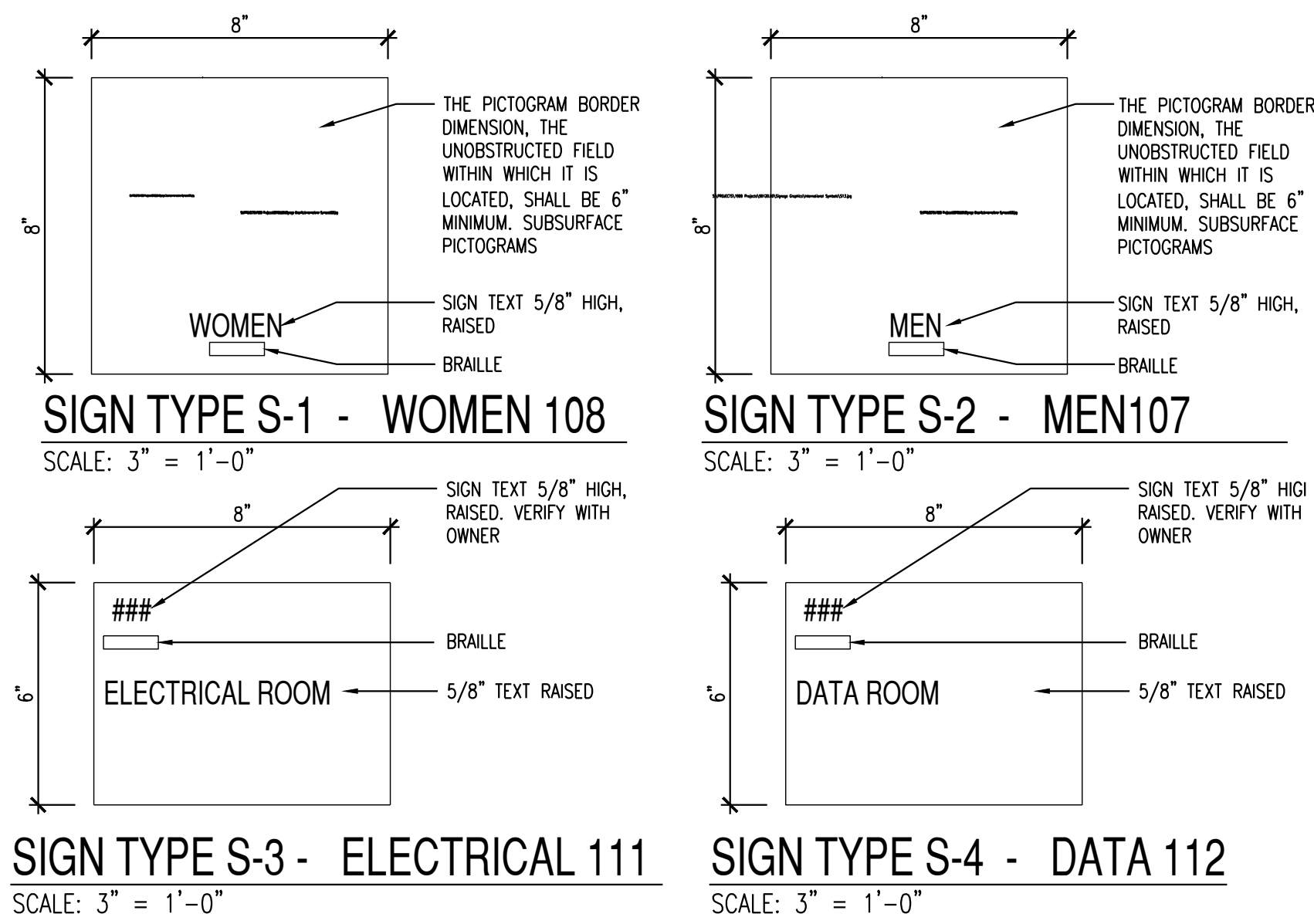
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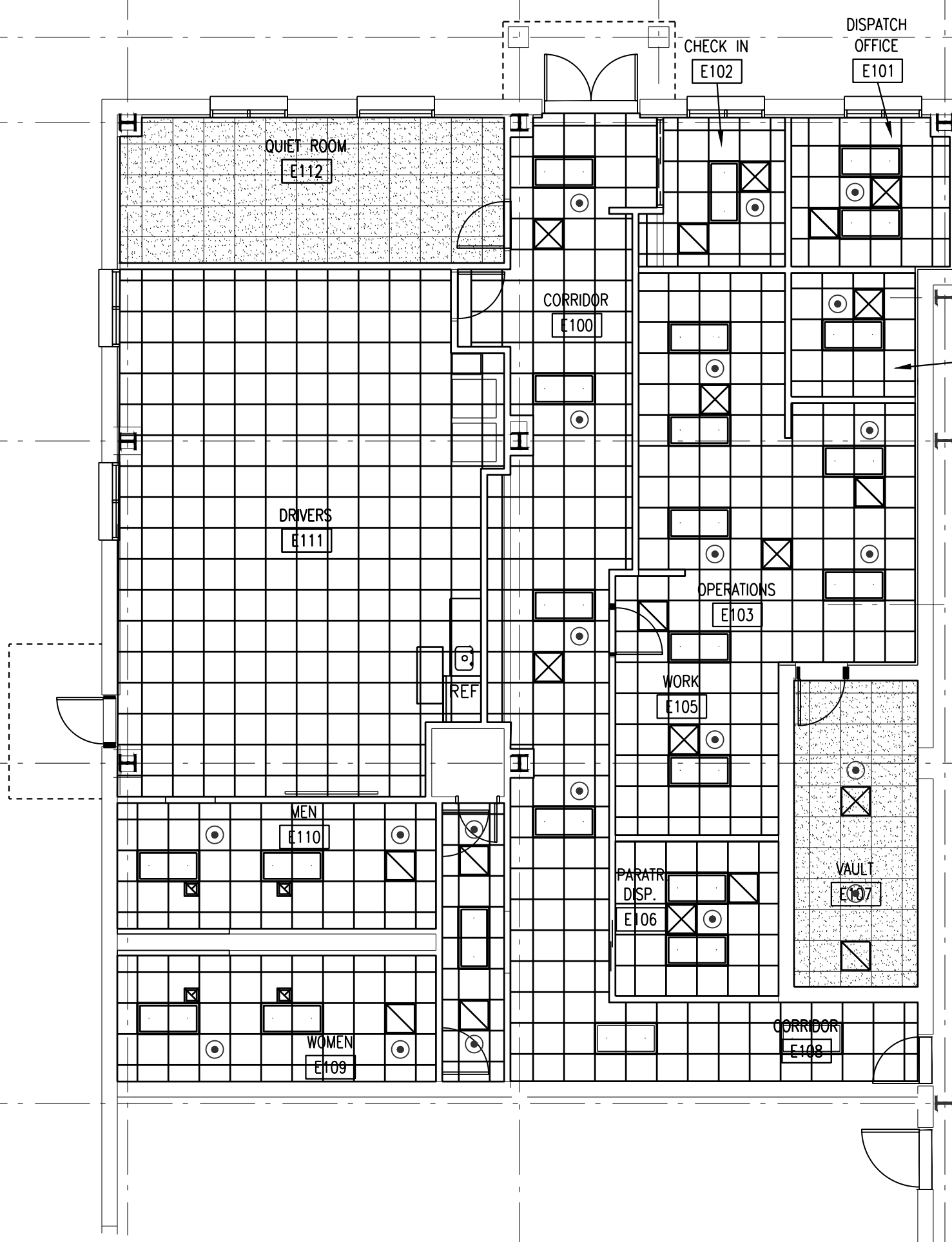
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SIGNAGE NOTES:
CONSTRUCTION: DOUBLE LAYER ACRYLIC SHEET. APPLIED RAISED GRAPHICS REPEATED IN GRADE 2 BRAILLE.
TEXT: UPPER CASE HELVETICA MEDIUM. LEFT JUSTIFIED.
COLOR: METALLIC SILVER SUBSURFACE PAINT WITH BLACK CHARACTERS.
NOTE: MAINTAIN 1/2" BORDER AROUND SIGN.

2 TYPICAL INTERIOR SIGNAGE
A2.1

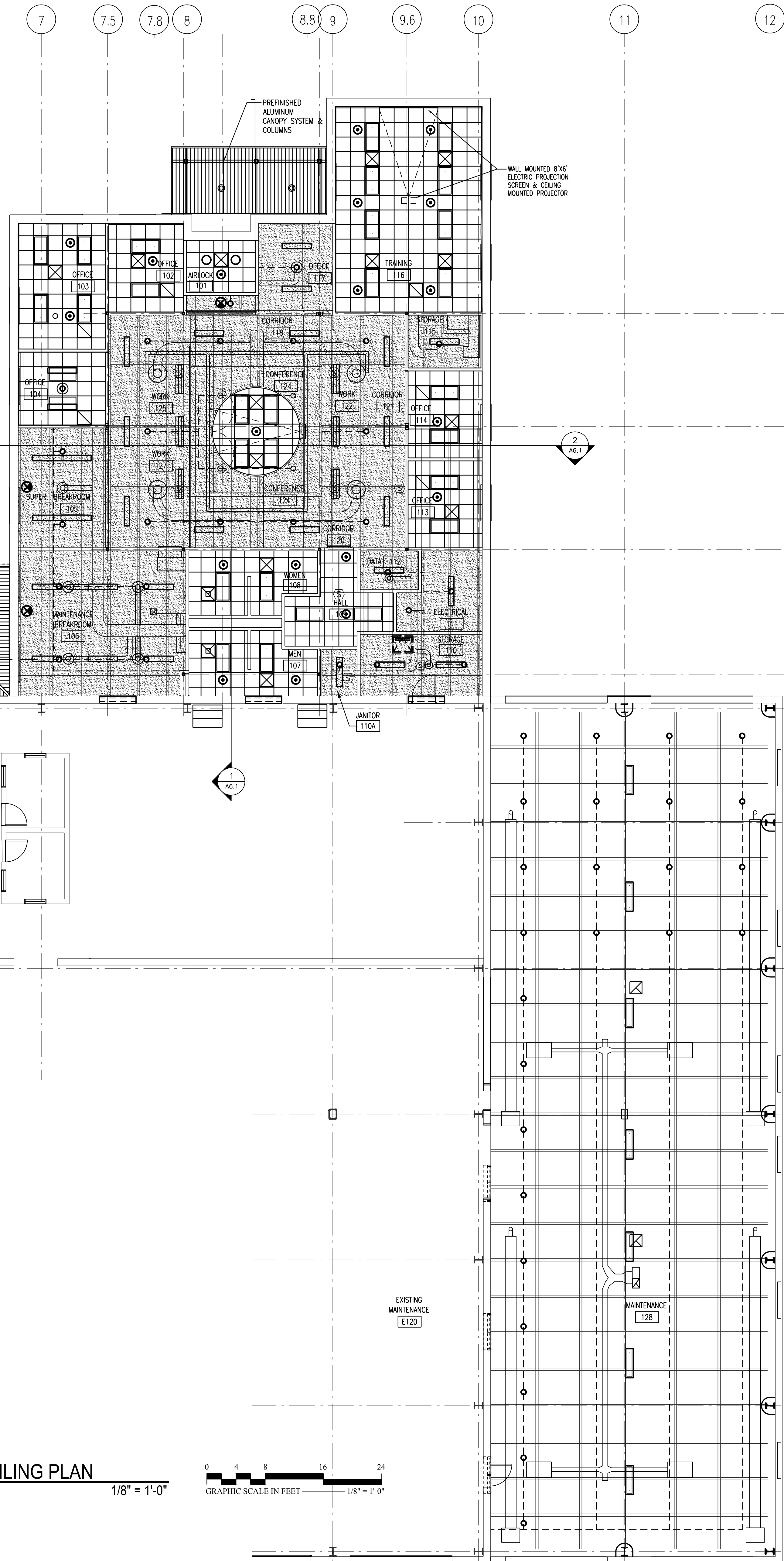


CEILING LEGEND

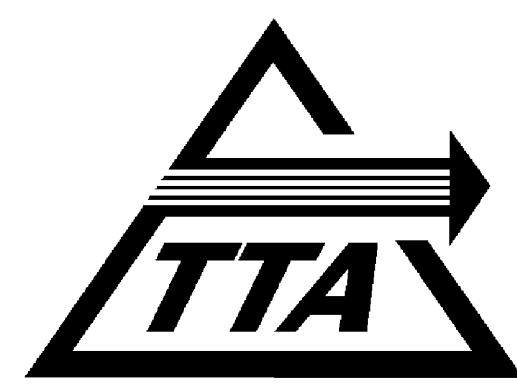
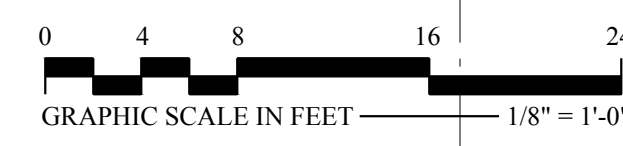
(Symbol: Dotted pattern)	EXPOSED STRUCTURE (PAINTED) SEE FINISH SCHEDULE
(Symbol: Grid pattern)	EXISTING 2x2 LAY-IN ACOUSTICAL TILE & SUSPENDED GRID. MAINTAIN AND REINSTALL EXISTING TILES. INSTALL NEW GRID. REFER TO MECHANICAL, FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR EXTENT OF WORK AND RELOCATED FIXTURES
(Symbol: Grid with X)	NEW 2x2 LAY-IN ACOUSTICAL TILES & SUSPENDED CEILING GRID SYSTEM. REFER TO MECHANICAL, FIRE PROTECTION AND ELECTRICAL FOR SALVAGED AND RELOCATED FIXTURES
(Symbol: Horizontal lines)	2x4 LAY-IN LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Horizontal lines with dots)	SUSPENDED LIGHT FIXTURE
(Symbol: Circle with dot)	RECESSED DOWN LIGHTS
(Symbol: Square with X)	CEILING MOUNTED EXIT LIGHT. REFER TO ELECTRICAL DRAWINGS FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Square with S)	SMOKE DETECTOR. REFER TO ELECTRICAL DRAWINGS FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Square with X)	SUPPLY GRILLE. REFER TO MECHANICAL FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Square with X)	RETURN GRILLE. REFER TO MECHANICAL FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Square with X)	EXHAUST GRILLE. REFER TO MECHANICAL FOR SALVAGED MATERIAL TO BE RE-INSTALLED
(Symbol: Circle with dot)	EXISTING SPRINKLER HEADS (RELOCATED)
(Symbol: Circle with dot)	NEW SPRINKLER HEADS

- ### CEILING PLAN NOTES
- 1. THE ARCHITECTURAL REFLECTED CEILING PLAN IS PROVIDED FOR GENERAL COORDINATION OF CEILING ITEMS PROVIDED BY THE MECHANICAL, FIRE PROTECTION AND ELECTRICAL CONTRACTORS. MINOR INCONSISTENCIES IN DESIGNATIONS OR INADVERTENT OMISSIONS ON THE REFLECTED CEILING PLANS DO NOT CONSTITUTE DELETION OF ANY ITEM PROVIDED BY THE OTHER CONTRACTORS. THE FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS SHALL DICTATE THE SCOPE OF WORK PROVIDED BY THOSE CONTRACTORS.
 - 2. REFER TO FLOOR PLAN FOR ROOM DIMENSIONS.
 - 3. THE GENERAL CONTRACTOR SHALL PAINT EXPOSED STEEL FRAMES. COLOR TO BE SELECTED BY ARCHITECT - REFER TO FINISH SCHEDULE AND SPECIFICATIONS. FOR LOCATION AND TYPE.
 - 4. CEILING HEIGHTS:
 - REFER TO SECTION 1, 2/A6.1, AND FINISH SCHEDULE FOR HEIGHTS.
 - PROVIDE 8" WIDE GYPSUM BOARD BULK HEADS AT TRANSITIONS
 - BETWEEN DIFFERENT CEILING HEIGHTS. MAINTAIN MINIMUM 4" BETWEEN CEILINGS AND BOTTOM OF GYPSUM BOARD.

EXTENSION OF NEW CANOPY PROFILE AND MATERIALS. STRUCTURE, GUTTER, DOWNSPOUTS AND ACCESSORIES ARE TO MATCH EXISTING.
REMOVE PART OF EXISTING CANOPY



1 REFLECTED CEILING PLAN
A2.1 $1/8" = 1'-0"$



ADDITIONS TO MAINTENANCE FACILITY

5201 NELSON ROAD (MAINTENANCE BLDG)
5210 NELSON ROAD (VACANT LOT)
CARY, NORTH CAROLINA



COMPLETE FACILITIES SOLUTIONS

MOSER
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PHOENIX
ASSOCIATES, PA

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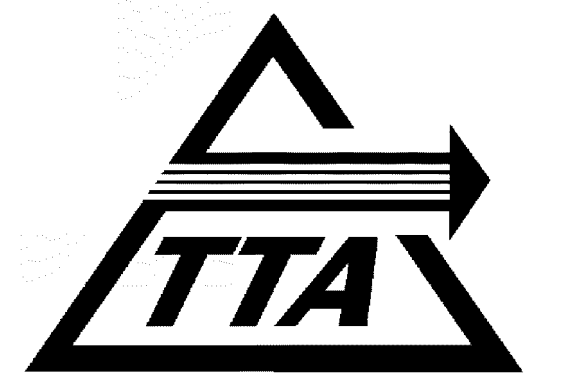
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(PLAN) NORTH

REVISIONS	
NO.	DESCRIPTION
01-26-08	RECORD DRAWINGS

DATE: APRIL 28, 2006
PROJECT NUMBER: 05111.00 / 05156.00
SCALE:
DRAWN BY:

REFLECTED CEILING PLAN FINISH SCHEDULE

A2.1



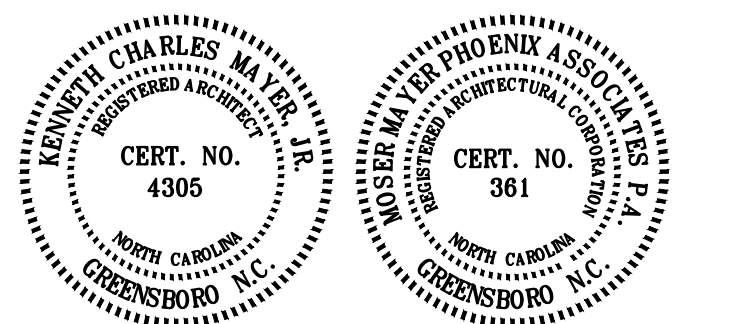
ADDITIONS TO MAINTENANCE FACILITY

5201 NELSON ROAD (MAINTENANCE BLDG)
5210 NELSON ROAD (VACANT LOT)
CARY, NORTH CAROLINA



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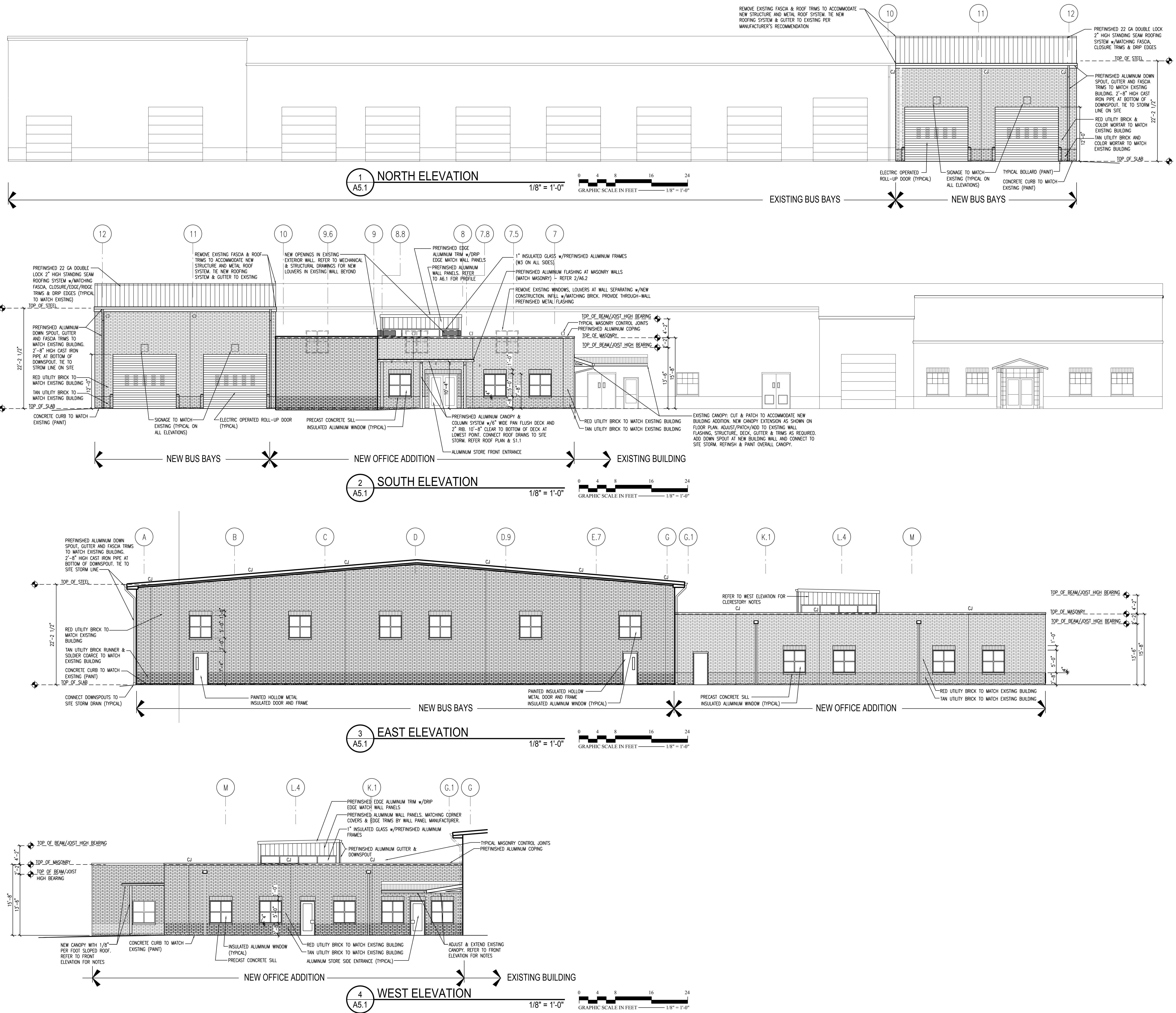


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Table with columns: NO., DATE, DESCRIPTION. Includes revision 01-26-08 RECORD DRAWINGS. Project number 05111.00 (05156.00). Date APRIL 28, 2006.

EXTERIOR ELEVATIONS

A5.1



1 NORTH ELEVATION

2 SOUTH ELEVATION

3 EAST ELEVATION

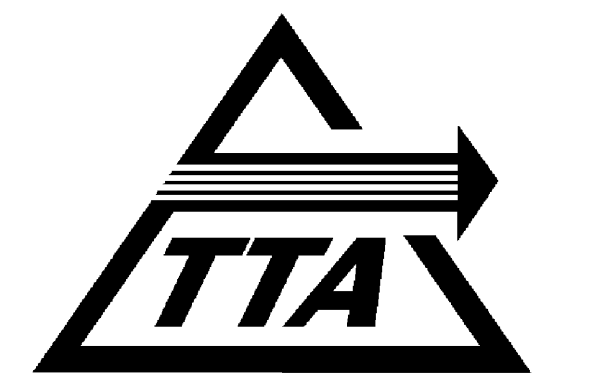
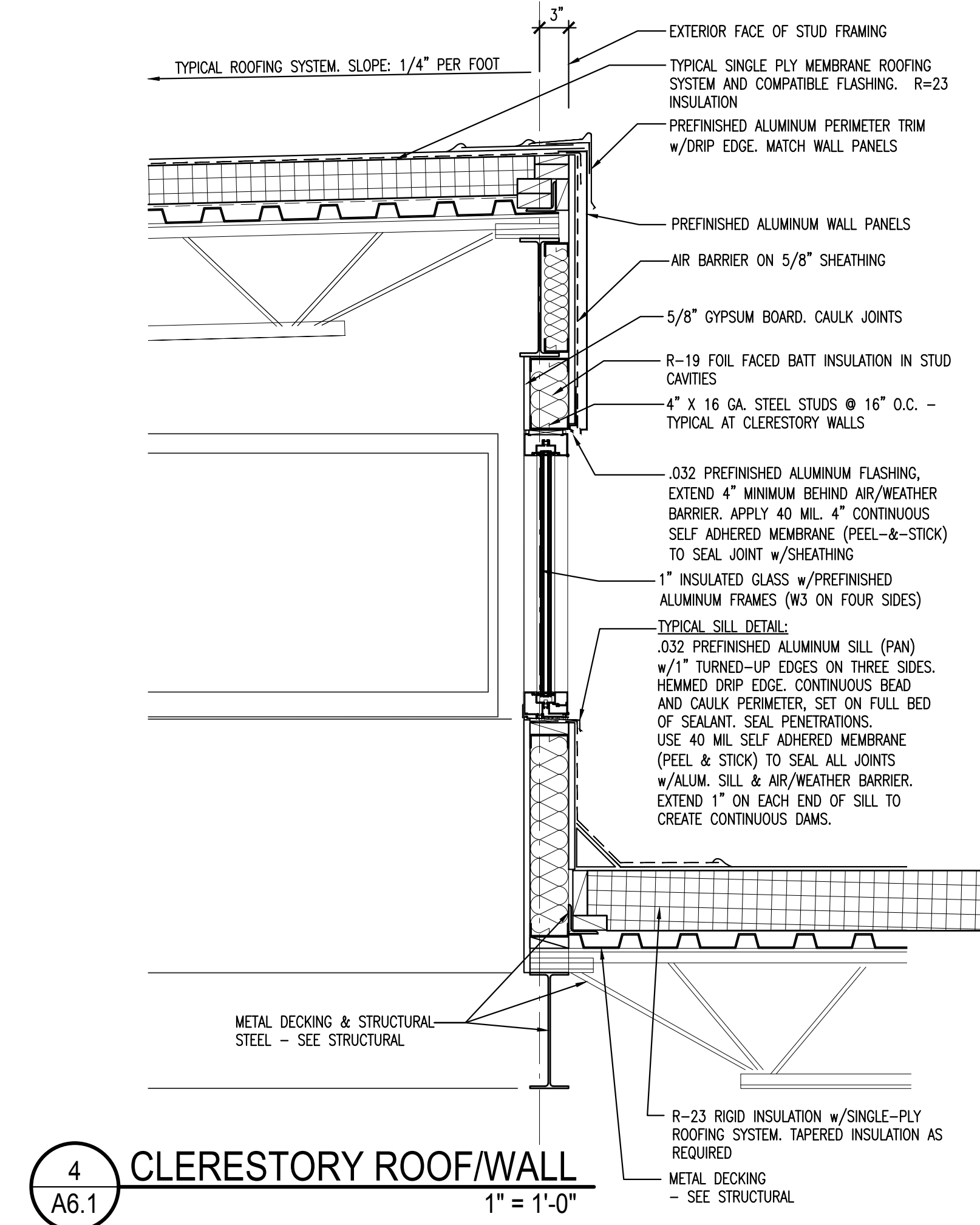
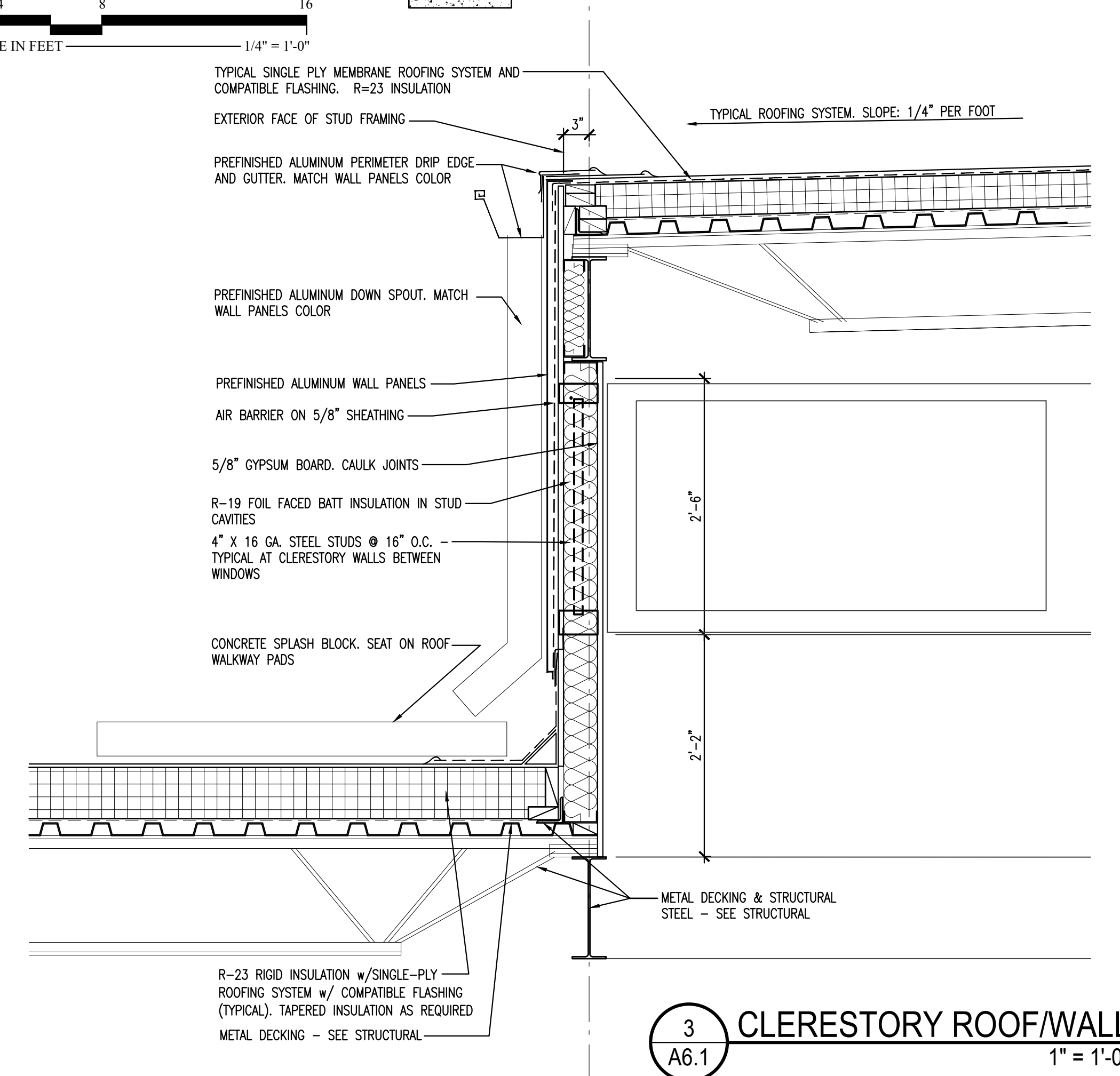
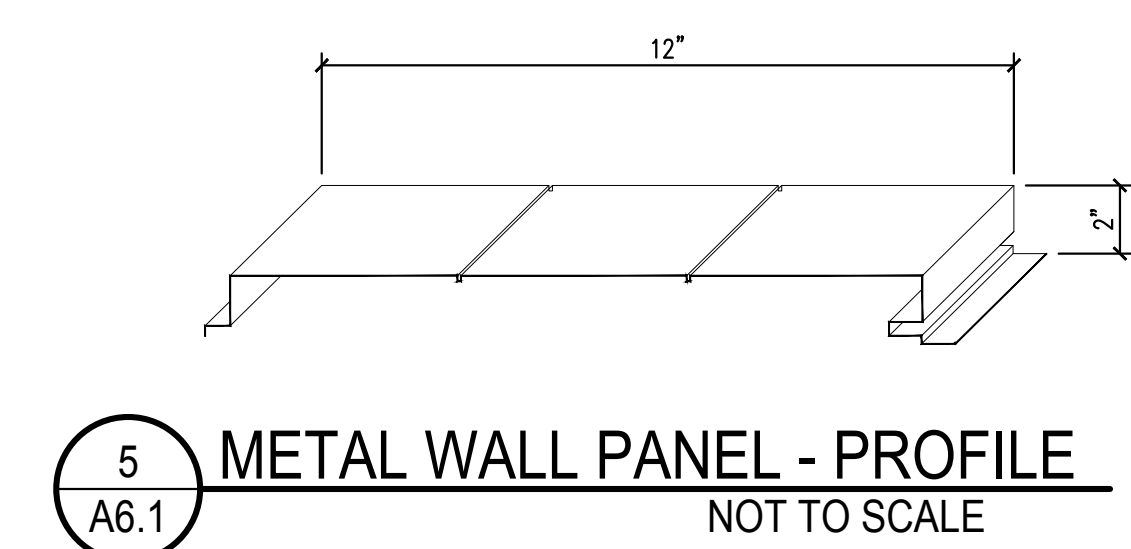
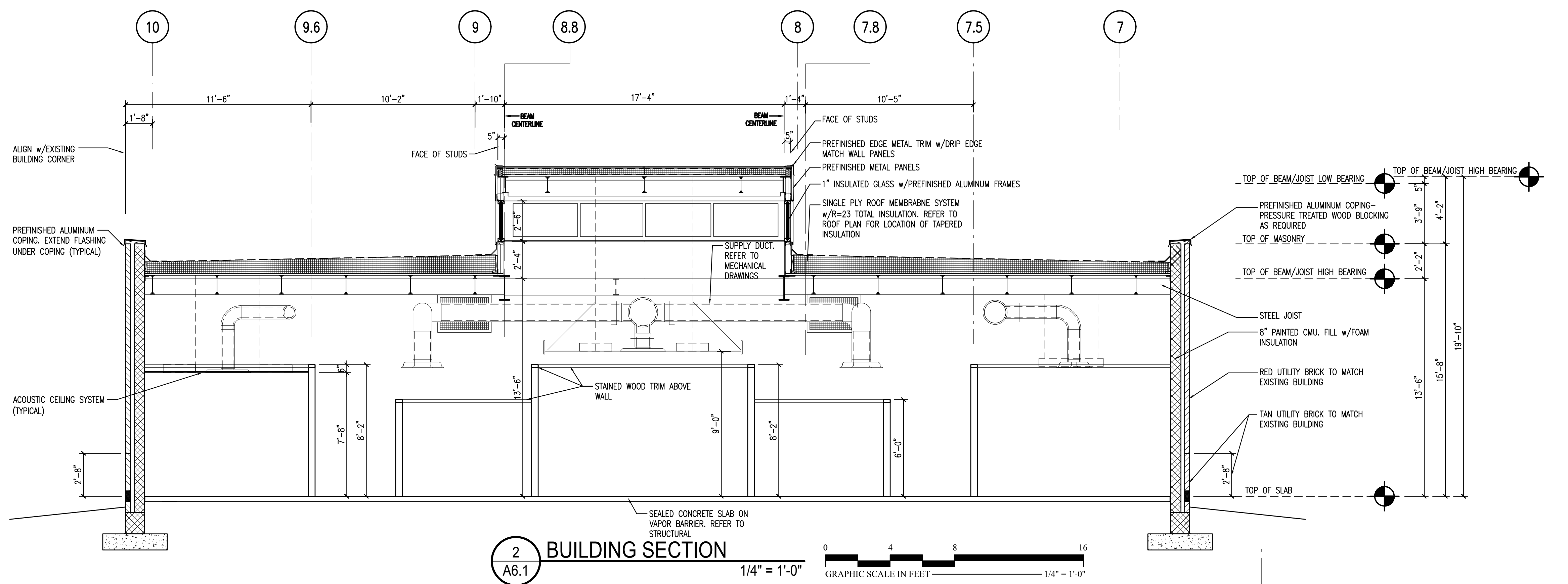
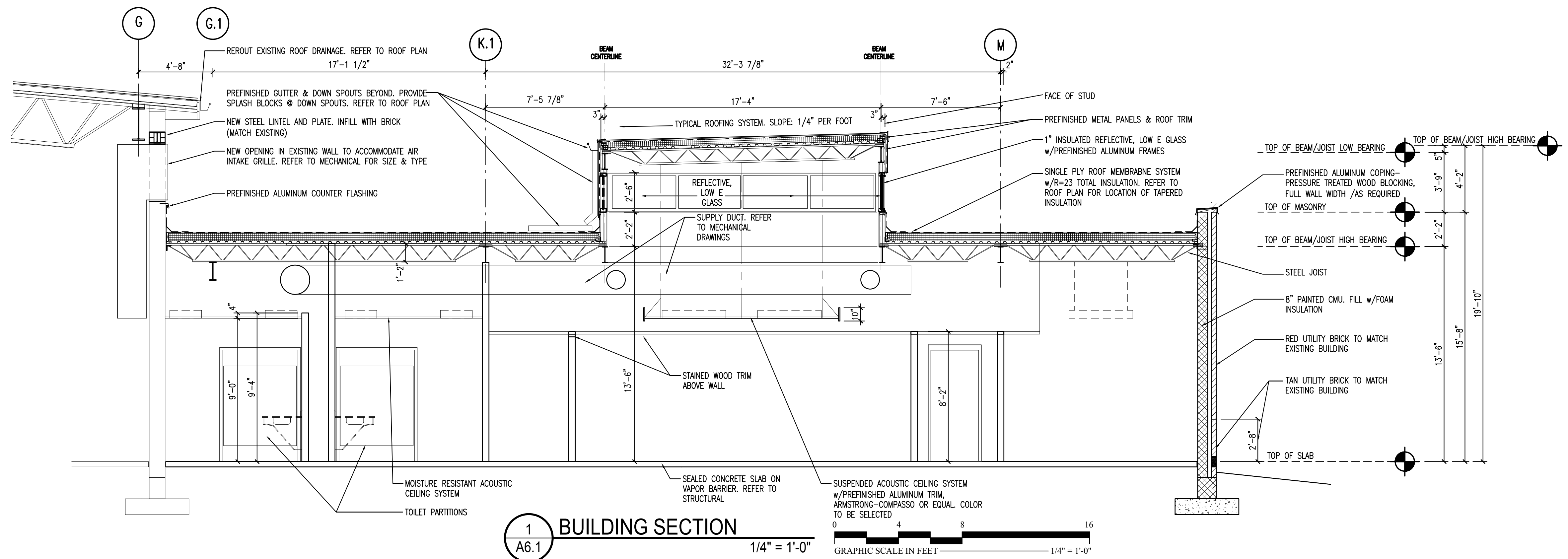
4 WEST ELEVATION

1/8" = 1'-0"
GRAPHIC SCALE IN FEET

1/8" = 1'-0"
GRAPHIC SCALE IN FEET

1/8" = 1'-0"
GRAPHIC SCALE IN FEET

1/8" = 1'-0"
GRAPHIC SCALE IN FEET



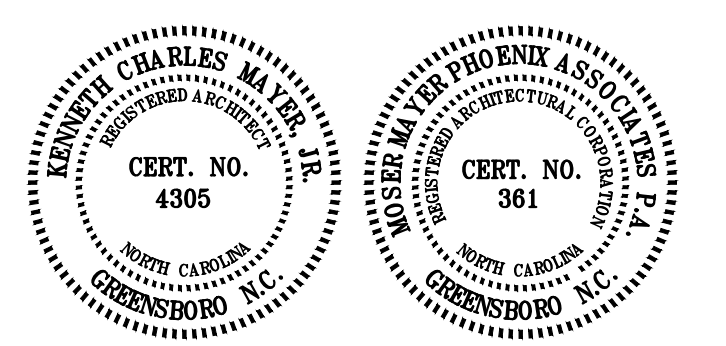
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NO.	DATE	DESCRIPTION
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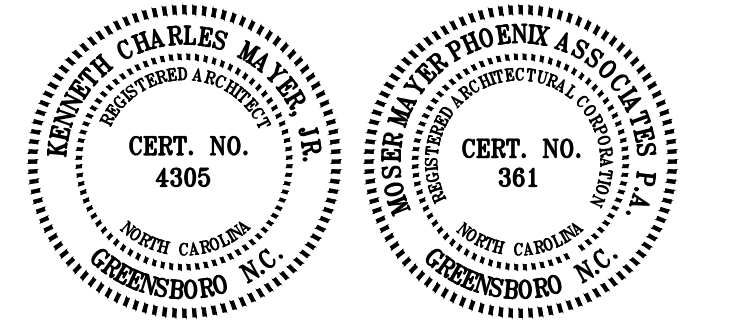
BUILDING SECTIONS & BUILDING DETAILS



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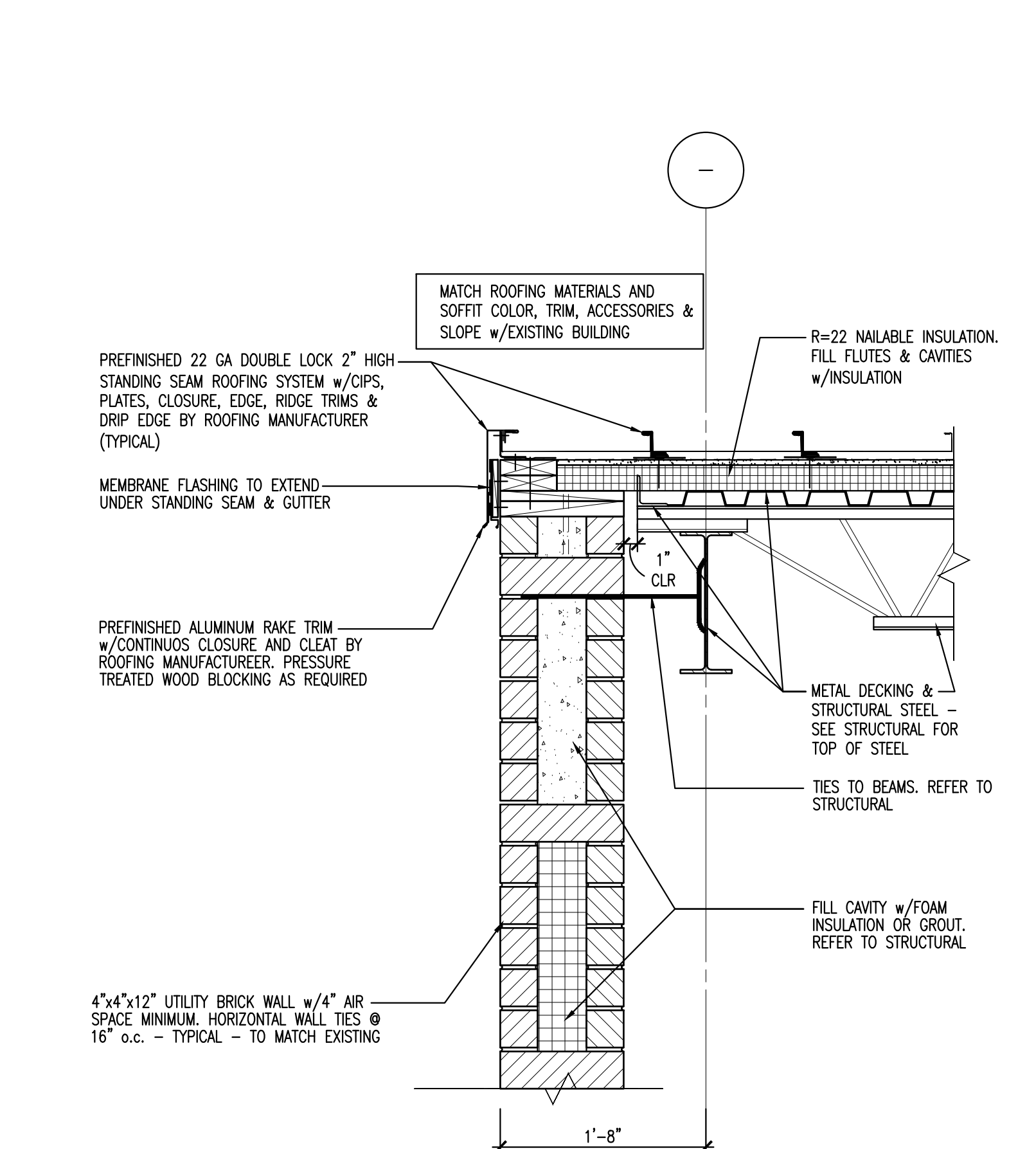
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REVISIONS

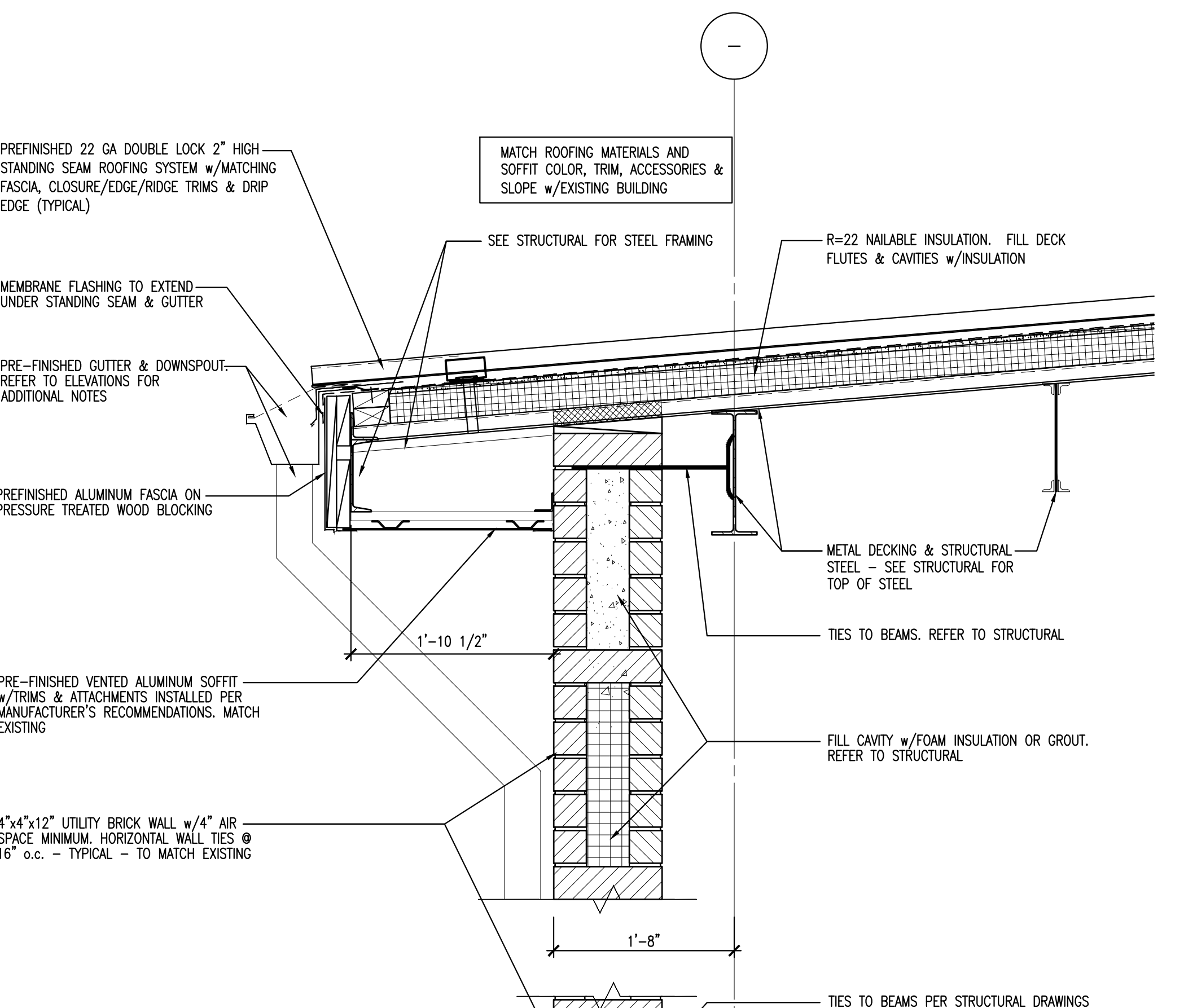
NO.	DATE	DESCRIPTION
01	01-26-08	RECORD DRAWINGS

BUILDING WALL AND CANOPY DETAILS

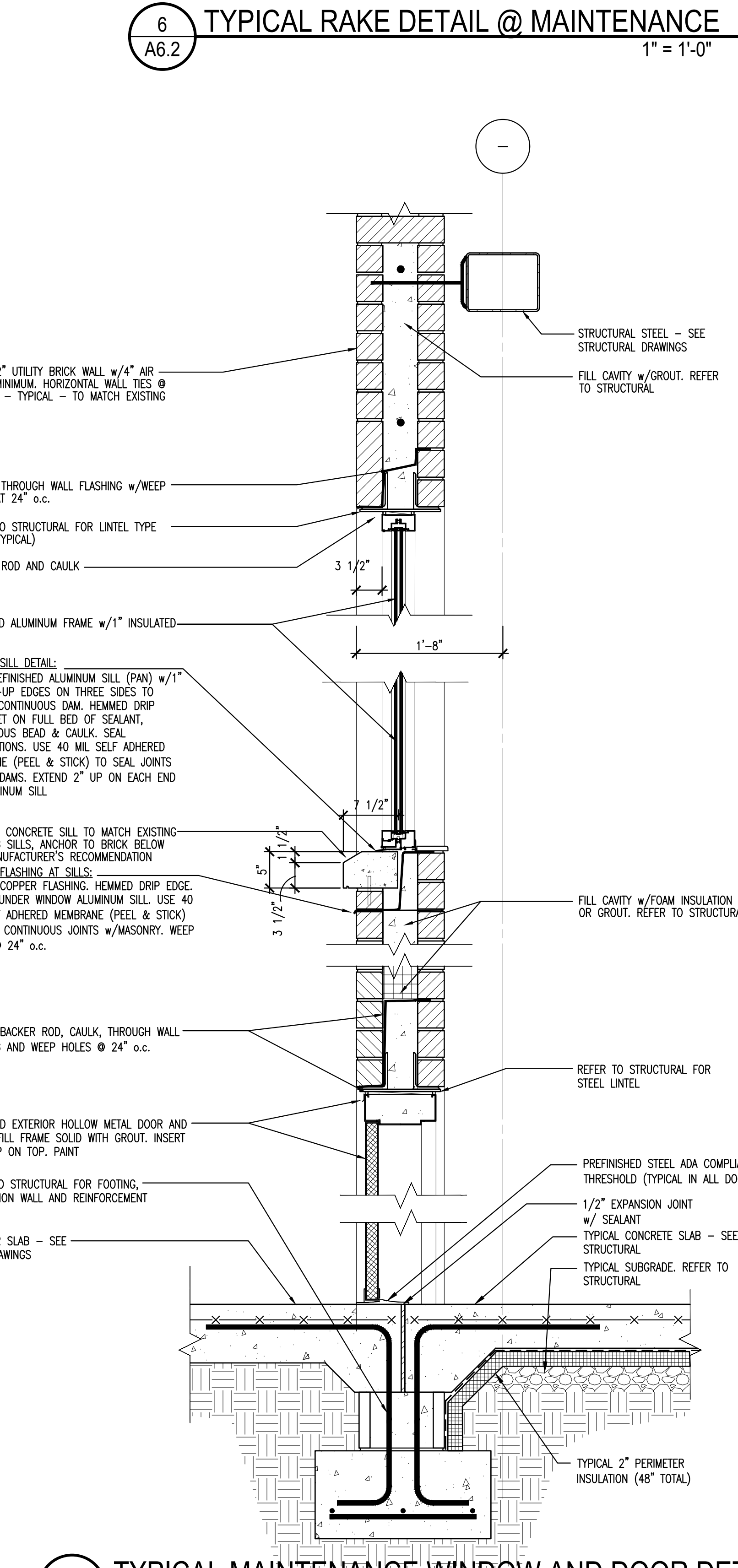
A6.2



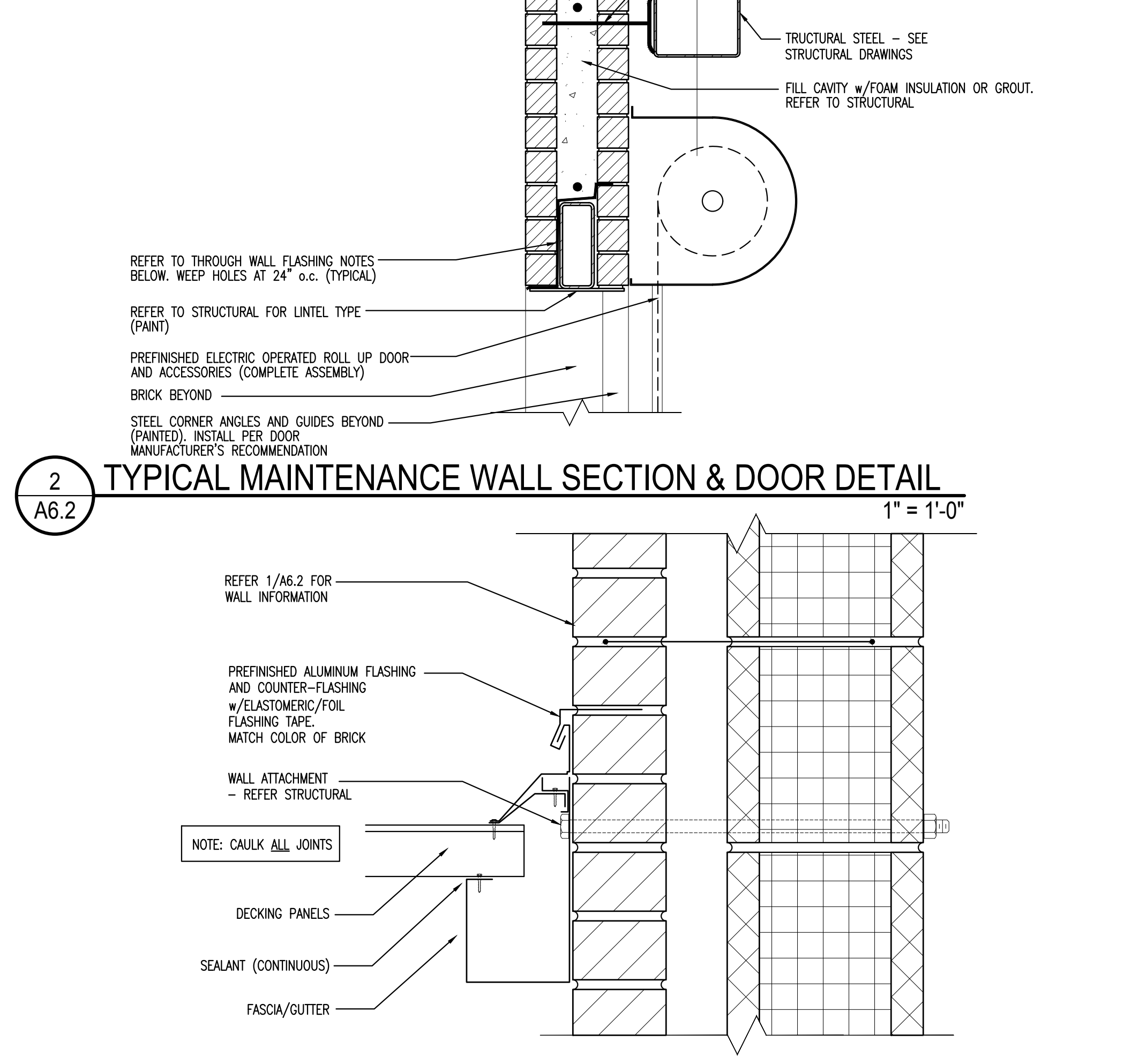
6 **TYPICAL RAKE DETAIL @ MAINTENANCE**
1" = 1'-0"



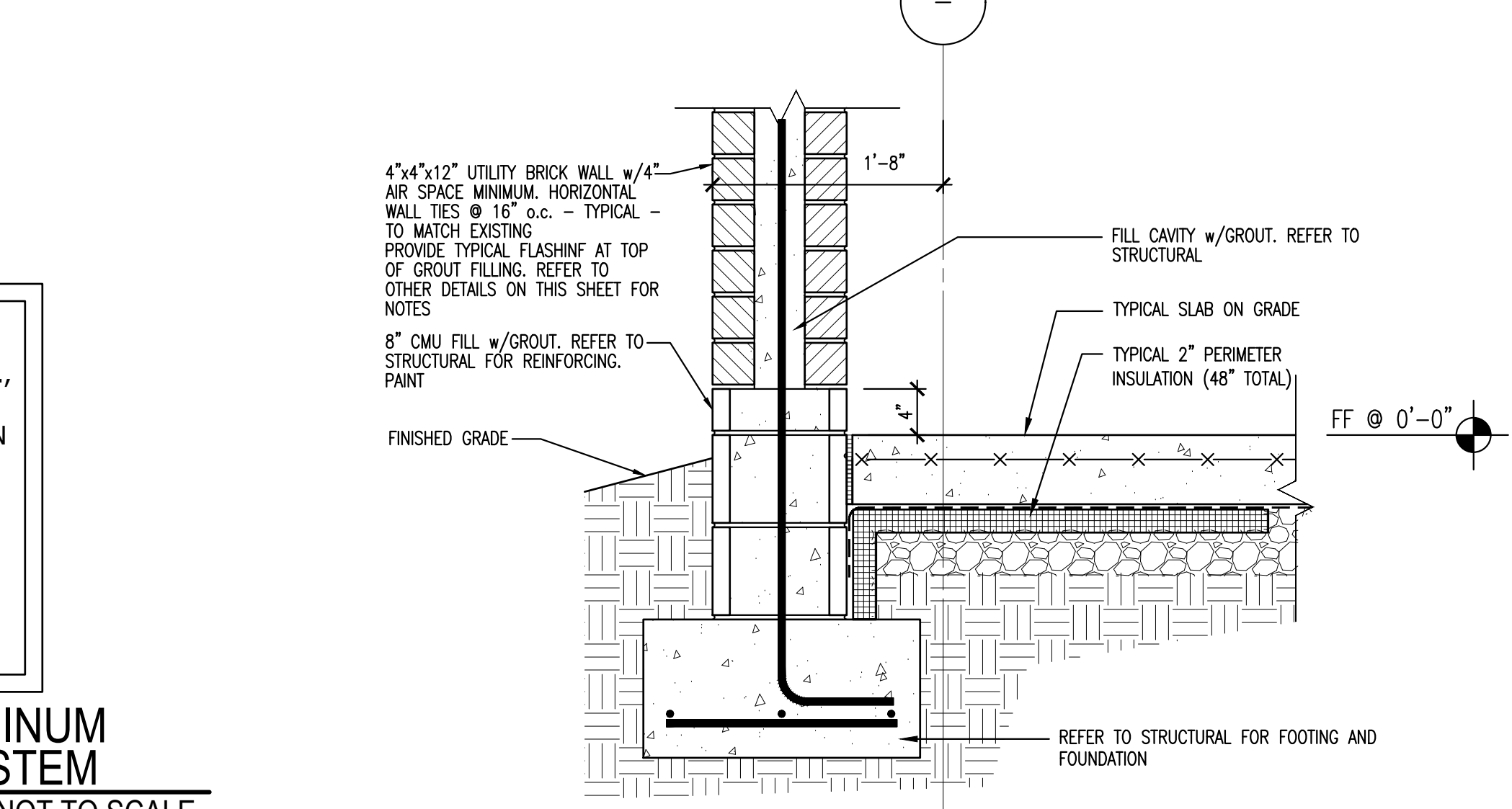
2 **TYPICAL MAINTENANCE WALL SECTION & DOOR DETAIL**
1" = 1'-0"



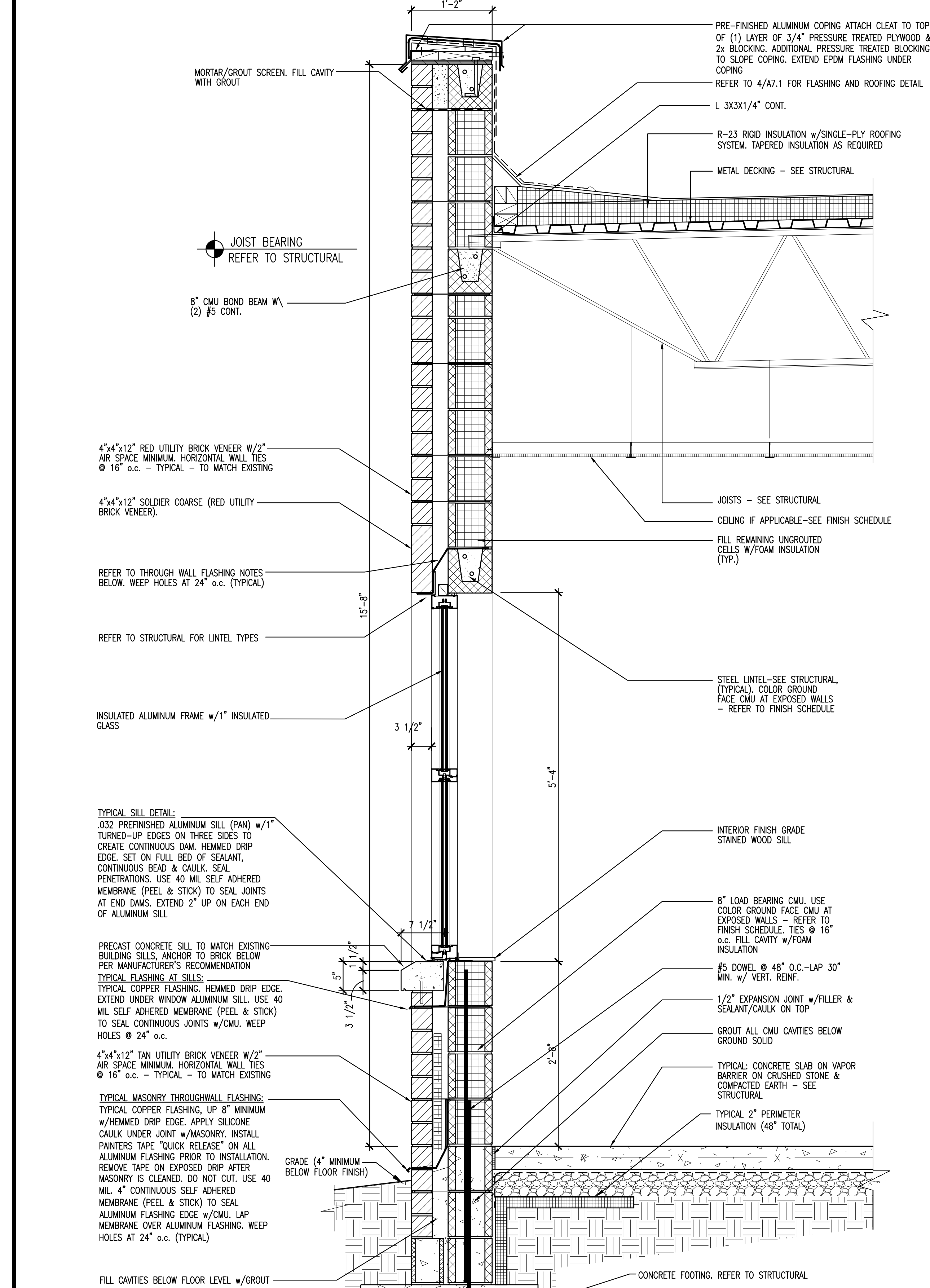
7 **TYPICAL MAINTENANCE WINDOW AND DOOR DETAILS**
1" = 1'-0"



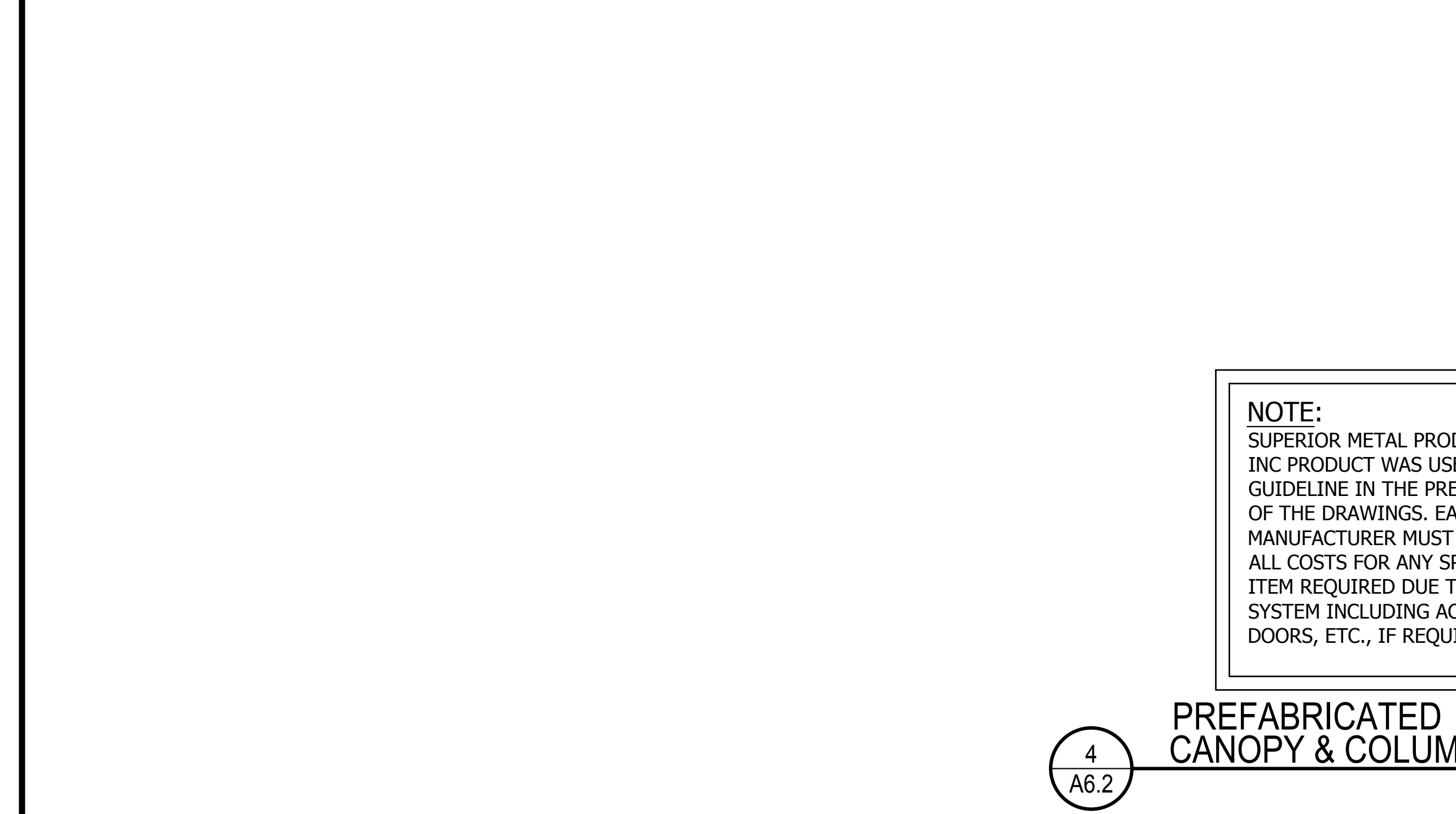
3 **FLASHING DETAIL AT PREFINISHED CANOPY**
1 1/2" = 1'-0"



5 **TYPICAL MAINTENANCE WALL BASE DETAIL**
1" = 1'-0"



1 **TYPICAL WALL SECTION @ NEW ADDITION**
1" = 1'-0"



4 **PREFABRICATED ALUMINUM CANOPY & COLUMN SYSTEM**
NOT TO SCALE

NOTE: SUPERIOR METAL PRODUCTS CO., INC PRODUCT WAS USED AS A GUIDELINE IN THE PREPARATION OF THE DRAWINGS. EACH MANUFACTURER MUST INCLUDE ALL COSTS FOR ANY SPECIALTY ITEM REQUIRED DUE TO THEIR SYSTEM INCLUDING ACCESS DOORS, ETC., IF REQUIRED.

4 **A6.2**

PRE-FINISHED ALUMINUM COPING ATTACH CLEAT TO TOP OF (1) LAYER OF 3/4" PRESSURE TREATED PLYWOOD & 2x BLOCKING. ADDITIONAL PRESSURE TREATED BLOCKING TO SLOPE COPING. EXTEND EPDM FLASHING UNDER COPING.
REFER TO 4/A7.1 FOR FLASHING AND ROOFING DETAIL.
L 3X3X1/4" CONT.
R-23 RIGID INSULATION w/SINGLE-PLY ROOFING SYSTEM. TAPERED INSULATION AS REQUIRED.
METAL DECKING - SEE STRUCTURAL.
MORTAR/GROUT SCREEN. FILL CAVITY WITH GROUT.
JOIST BEARING REFER TO STRUCTURAL.
8" CMU BOND BEAM W/ (2) #5 CONT.
4"x4"x12" RED UTILITY BRICK VENEER W/2" AIR SPACE MINIMUM. HORIZONTAL WALL TIES @ 16" o.c. - TYPICAL - TO MATCH EXISTING.
4"x4"x12" SOLDIER COURSE (RED UTILITY BRICK VENEER).
REFER TO THROUGH WALL FLASHING NOTES BELOW. WEEP HOLES AT 24" o.c. (TYPICAL).
REFER TO STRUCTURAL FOR LINTEL TYPES.
INSULATED ALUMINUM FRAME w/1" INSULATED GLASS.
3 1/2"
5'-4"
TYPICAL SILL DETAIL:
#32 PREFINISHED ALUMINUM SILL (PAN) w/1" TURNED-UP EDGES ON THREE SIDES TO CREATE CONTINUOUS DAM. HEMMED DRIP EDGE. SET ON FULL BED OF SEALANT. CONTINUOUS BEAD & CAULK. SEAL PENETRATIONS. USE 40 MIL SELF-ADHERED MEMBRANE (PEEL & STICK) TO SEAL JOINTS AT END DAMS. EXTEND 2" UP ON EACH END OF ALUMINUM SILL.
PRECAST CONCRETE SILL TO MATCH EXISTING BUILDING SILLS. ANCHOR TO BRICK BELOW PER MANUFACTURER'S RECOMMENDATION.
TYPICAL FLASHING AT SILLS:
TYPICAL COPPER FLASHING. HEMMED DRIP EDGE. EXTEND UNDER WINDOW ALUMINUM SILL. USE 40 MIL SELF-ADHERED MEMBRANE (PEEL & STICK) TO SEAL JOINTS TO SEAL CONTINUOUS JOINTS w/CMU. WEEP HOLES @ 24" o.c.
4"x4"x12" TAN UTILITY BRICK VENEER W/2" AIR SPACE MINIMUM. HORIZONTAL WALL TIES @ 16" o.c. - TYPICAL - TO MATCH EXISTING.
TYPICAL MASONRY THROUGH-WALL FLASHING:
TYPICAL COPPER FLASHING. UP 8" MINIMUM w/HEMMED DRIP EDGE. APPLY SILICONE CAULK UNDER JOINT w/MASONRY. INSTALL PAINTERS TAPE "QUICK RELEASE" ON ALL ALUMINUM FLASHING PRIOR TO INSTALLATION. REMOVE TAPE ON EXPOSED DRIP AFTER MASONRY IS CLEANED. DO NOT CUT. USE 40 MIL, 4" CONTINUOUS SELF-ADHERED MEMBRANE (PEEL & STICK) TO SEAL ALUMINUM FLASHING EDGE w/CMU. LAP MEMBRANE OVER ALUMINUM FLASHING. WEEP HOLES AT 24" o.c. (TYPICAL).
FILL CAVITIES BELOW FLOOR LEVEL w/GROUT.
CONCRETE FOOTING. REFER TO STRUCTURAL.
INTERIOR FINISH GRADE STAINED WOOD SILL.
8" LOAD BEARING CMU. USE COLOR GROUND FACE CMU AT EXPOSED WALLS - REFER TO FINISH SCHEDULE. TIES @ 16" o.c. FILL CAVITY w/FOAM INSULATION.
#5 DOWEL @ 48" O.C.-LAP 30" MIN. w/ VERT. REIN.
1/2" EXPANSION JOINT w/FILLER & SEALANT/CAULK ON TOP.
GROUT ALL CMU CAVITIES BELOW GROUND SOLID.
TYPICAL CONCRETE SLAB ON VAPOR BARRIER ON CRUSHED STONE & COMPACTED EARTH - SEE STRUCTURAL.
TYPICAL 2" PERIMETER INSULATION (48" TOTAL).
GRADE (4" MINIMUM BELOW FLOOR FINISH).

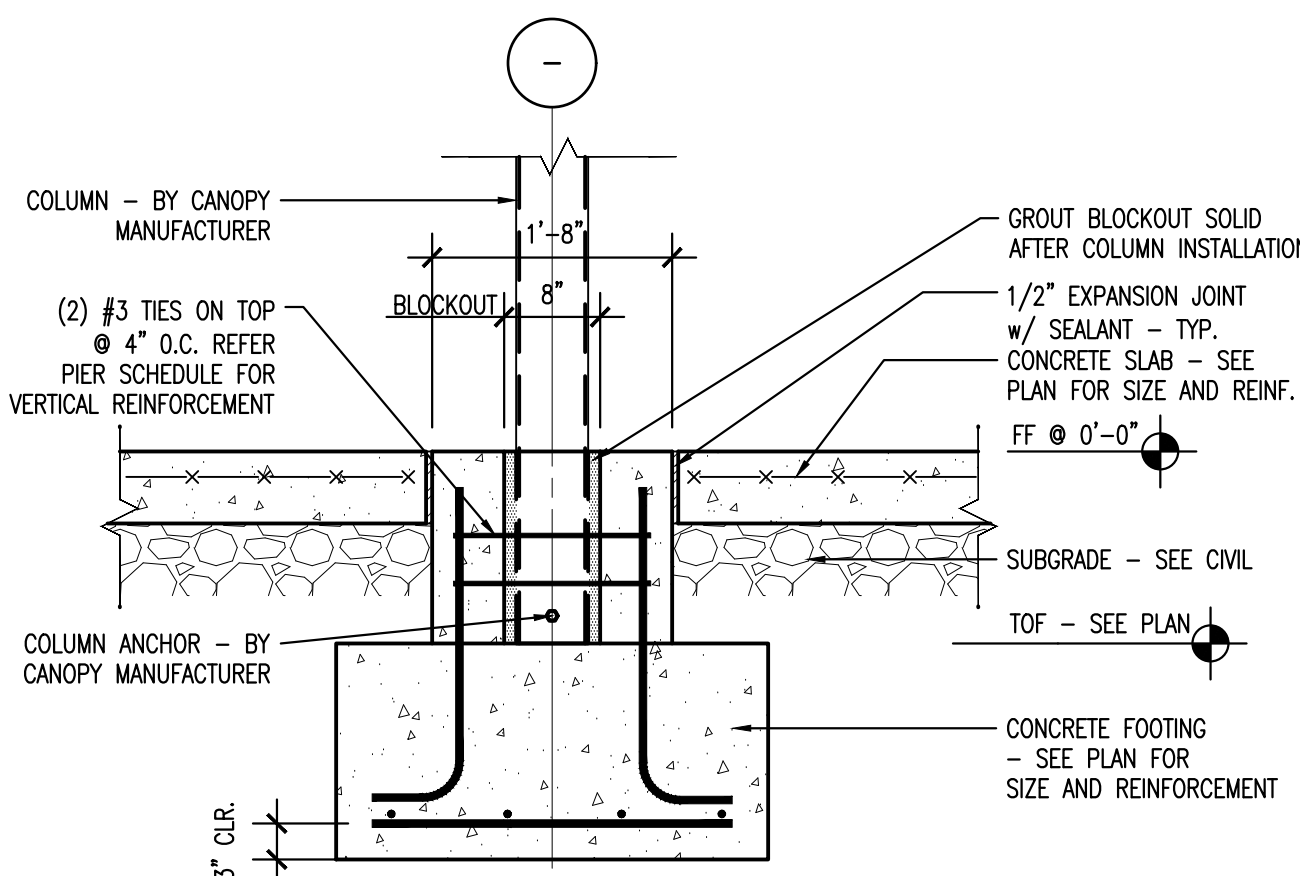
PRE-FINISHED 22 GA DOUBLE LOCK 2" HIGH STANDING SEAM ROOFING SYSTEM w/MATCHING FASCIA, CLOSURE/EDGE/RIDGE TRIMS & DRIP EDGE (TYPICAL).
MATCH ROOFING MATERIALS AND SOFFIT COLOR, TRIM, ACCESSORIES & SLOPE w/EXISTING BUILDING.
SEE STRUCTURAL FOR STEEL FRAMING.
R-22 NAVALB insulation. FILL DECK FLUTES & CAVITIES w/INSULATION.
MEMBRANE FLASHING TO EXTEND UNDER STANDING SEAM & GUTTER.
PRE-FINISHED GUTTER & DOWNSPOUT. REFER TO ELEVATIONS FOR ADDITIONAL NOTES.
PRE-FINISHED ALUMINUM FASCIA ON PRESSURE TREATED WOOD BLOCKING.
1'-10 1/2"
1'-8"
TIES TO BEAMS PER STRUCTURAL DRAWINGS.
TRUCTURAL STEEL - SEE STRUCTURAL DRAWINGS.
FILL CAVITY w/FOAM INSULATION OR GROUT. REFER TO STRUCTURAL.
4"x4"x12" UTILITY BRICK WALL w/4" AIR SPACE MINIMUM. HORIZONTAL WALL TIES @ 16" o.c. - TYPICAL - TO MATCH EXISTING.
TIES TO BEAMS. REFER TO STRUCTURAL.
PRE-FINISHED VENTED ALUMINUM SOFFIT w/TRIMS & ATTACHMENTS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MATCH EXISTING.
4"x4"x12" UTILITY BRICK WALL w/4" AIR SPACE MINIMUM. HORIZONTAL WALL TIES @ 16" o.c. - TYPICAL - TO MATCH EXISTING.
REFER TO THROUGH WALL FLASHING NOTES BELOW. WEEP HOLES AT 24" o.c. (TYPICAL).
REFER TO STRUCTURAL FOR LINTEL TYPE (PAINT).
PREFINISHED ELECTRIC OPERATED ROLL UP DOOR AND ACCESSORIES (COMPLETE ASSEMBLY) BRICK BEYOND.
STEEL CORNER ANGLES AND GUIDES BEYOND (PAINTED). INSTALL PER DOOR MANUFACTURER'S RECOMMENDATION.

REF 1/A6.2 FOR WALL INFORMATION.
PREFINISHED ALUMINUM FLASHING AND COUNTER-FLASHING w/ELASTOMERIC/FOIL FLASHING TAPE. MATCH COLOR OF BRICK.
WALL ATTACHMENT - REFER STRUCTURAL.
NOTE: CAULK ALL JOINTS.
DECKING PANELS.
SEALANT (CONTINUOUS).
FASCIA/GUTTER.

REF 1/A6.2 FOR WALL INFORMATION.
PREFINISHED ALUMINUM FLASHING AND COUNTER-FLASHING w/ELASTOMERIC/FOIL FLASHING TAPE. MATCH COLOR OF BRICK.
WALL ATTACHMENT - REFER STRUCTURAL.
NOTE: CAULK ALL JOINTS.
DECKING PANELS.
SEALANT (CONTINUOUS).
FASCIA/GUTTER.

4"x4"x12" UTILITY BRICK WALL w/4" AIR SPACE MINIMUM. HORIZONTAL WALL TIES @ 16" o.c. - TYPICAL - TO MATCH EXISTING.
FILL CAVITY w/GROUT. REFER TO STRUCTURAL.
TYPICAL SLAB ON GRADE.
TYPICAL 2" PERIMETER INSULATION (48" TOTAL).
FINISHED GRADE.
8" CMU FILL w/GROUT. REFER TO STRUCTURAL FOR REINFORCING. PAINT.
FF @ 0'-0"

TYPICAL THROUGH WALL FLASHING w/WEEP HOLES AT 24" o.c.
REFER TO STRUCTURAL FOR LINTEL TYPE (PAINT-TYPICAL).
BACKER ROD AND CAULK.
INSULATED ALUMINUM FRAME w/1" INSULATED GLASS.
TYPICAL SILL DETAIL:
#32 PREFINISHED ALUMINUM SILL (PAN) w/1" TURNED-UP EDGES ON THREE SIDES TO CREATE CONTINUOUS DAM. HEMMED DRIP EDGE. SET ON FULL BED OF SEALANT. CONTINUOUS BEAD & CAULK. SEAL PENETRATIONS. USE 40 MIL SELF-ADHERED MEMBRANE (PEEL & STICK) TO SEAL JOINTS AT END DAMS. EXTEND 2" UP ON EACH END OF ALUMINUM SILL.
PRECAST CONCRETE SILL TO MATCH EXISTING BUILDING SILLS. ANCHOR TO BRICK BELOW PER MANUFACTURER'S RECOMMENDATION.
TYPICAL FLASHING AT SILLS:
TYPICAL COPPER FLASHING. HEMMED DRIP EDGE. EXTEND UNDER WINDOW ALUMINUM SILL. USE 40 MIL SELF-ADHERED MEMBRANE (PEEL & STICK) TO SEAL CONTINUOUS JOINTS w/MASONRY. WEEP HOLES @ 24" o.c.
FILL CAVITY w/FOAM INSULATION OR GROUT. REFER TO STRUCTURAL.
TYPICAL BACKER ROD, CAULK, THROUGH WALL FLASHING AND WEEP HOLES @ 24" o.c.
REFER TO STRUCTURAL FOR STEEL LINTEL.
INSULATED EXTERIOR HOLLOW METAL DOOR AND FRAME. FILL FRAME SOLID WITH GROUT. INSERT RAIN CAP ON TOP. PAINT.
REFER TO STRUCTURAL FOR FOOTING, FOUNDATION WALL AND REINFORCEMENT.
EXTERIOR SLAB - SEE CIVIL DRAWINGS.
PREFINISHED STEEL ADA COMPLIANT THRESHOLD (TYPICAL IN ALL DOORS).
1/2" EXPANSION JOINT w/ SEALANT.
TYPICAL CONCRETE SLAB - SEE STRUCTURAL.
TYPICAL SUBGRADE. REFER TO STRUCTURAL.
TYPICAL 2" PERIMETER INSULATION (48" TOTAL).

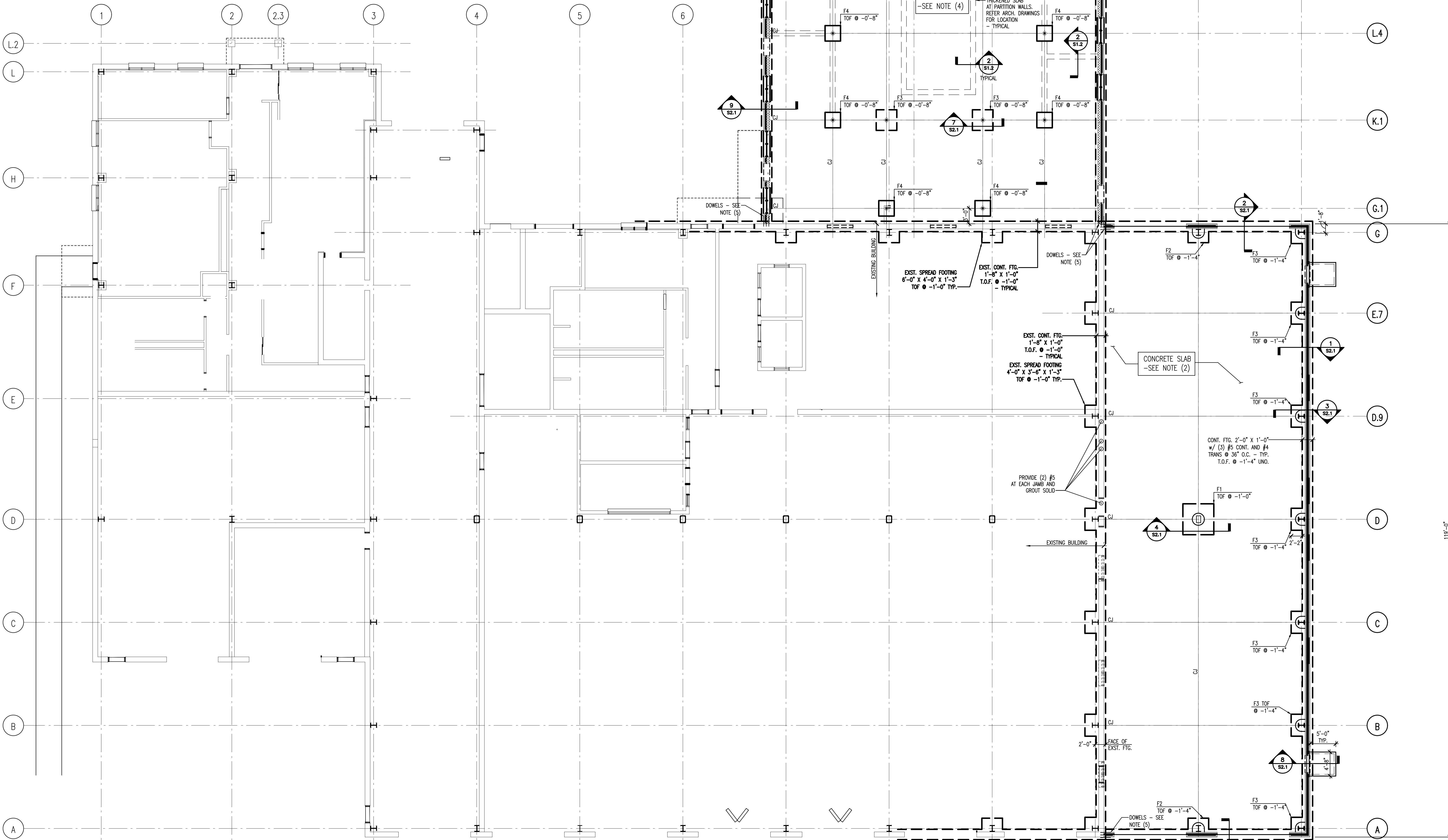


SECTION AT CANOPY FOOTING
S1.1 5118 NOT TO SCALE

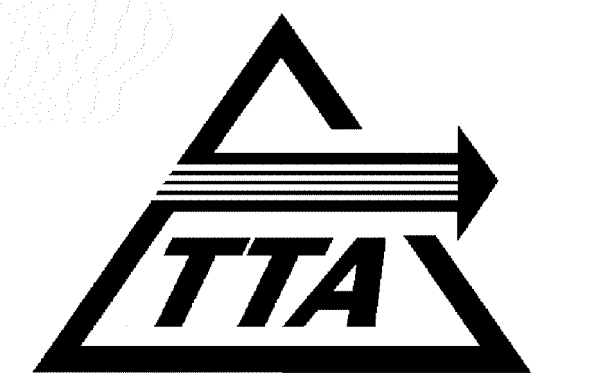
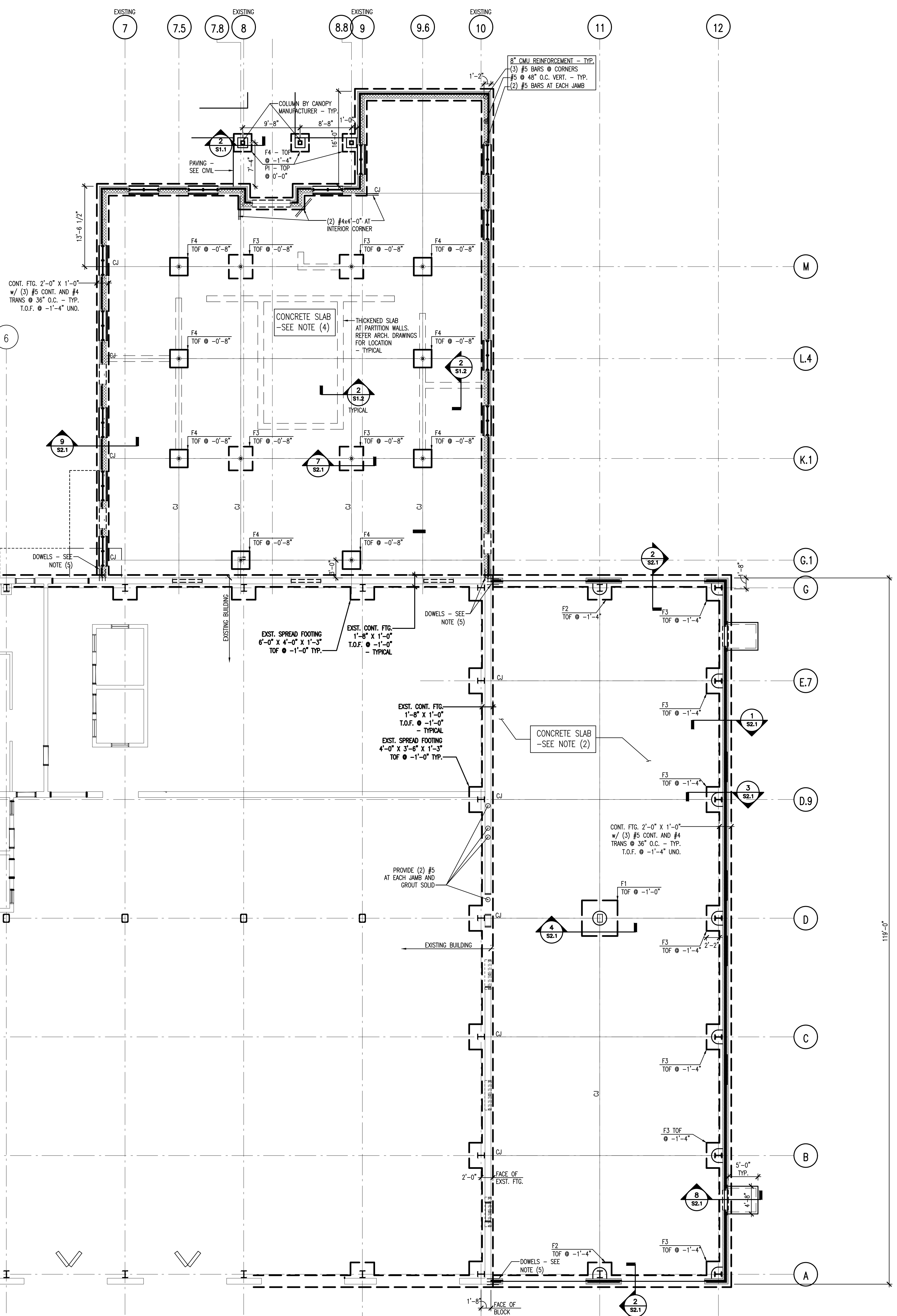
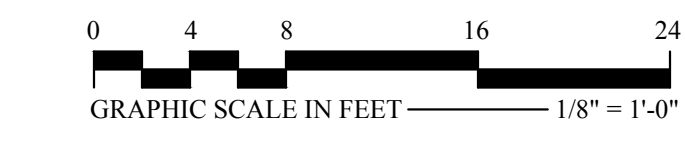
PIER SCHEDULE	
MARK	PIER SIZE REINFORCEMENT
P1	1'-8" X 1'-8" (8) #5 VERT. AND #3 LATERAL TIES @ 12" O.C. W/ 8"X8"X12" BLOCKOUT FOR CANOPY COLUMN

FOUNDATION SCHEDULE	
MARK	FOOTING SIZE REINFORCEMENT
F1	6'-0" X 6'-0" X 1'-6" (8) #5 E.W.
F2	5'-0" X 5'-0" X 1'-3" (6) #5 E.W.
F3	4'-0" X 4'-0" X 1'-0" (6) #5 E.W.
F4	3'-0" X 3'-0" X 1'-0" (5) #5 E.W.

- NOTES:
- FINISHED FLOOR ELEVATION IS 391.50'. FOR PURPOSES OF FOUNDATION PLAN ASSUME FINISHED FLOOR ELEVATION IS 0'-0"
 - CONCRETE SLAB SHALL BE 6" THICK, REINFORCED W/ 6X6 W2.9XW2.9 WWF ON 4" CLEAN GRAVEL AND 10 ML REINFORCED VAPOR BARRIER.
 - ALL CMU CAVITIES BELOW GROUND SHALL BE GROUTED SOLID.
 - CONCRETE SLAB SHALL BE 4" THICK, REINFORCED W/ 6X6 W2.9XW2.9 WWF ON 4" CLEAN GRAVEL AND 10 ML REINFORCED VAPOR BARRIER.
 - DOWEL TO EXISTING FOOTING W/ (3) #5 X 2'-8" BARS. DRILL 10" INTO EXISTING FOOTING, CLEAN HOLE, PLACE BAR AND EPOXY GROUT.



FOUNDATION PLAN
S1.1 11181-1 1/8" = 1'-0"



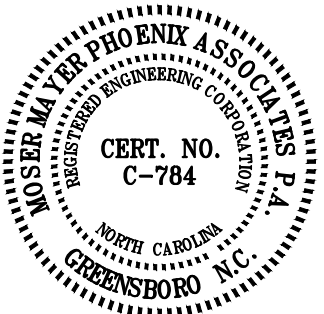
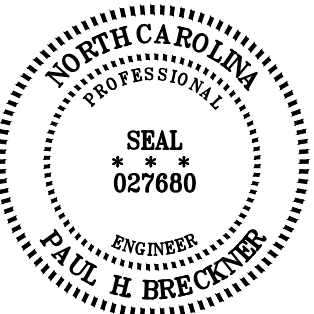
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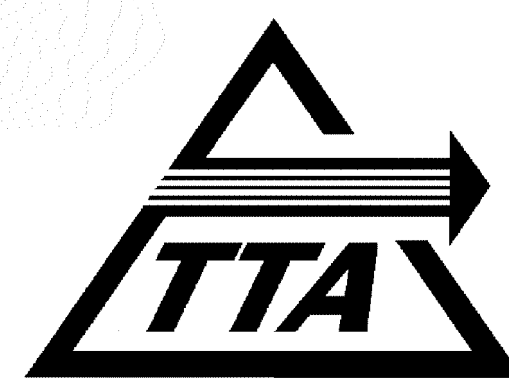


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FOUNDATION PLAN

S1.1



ADDITIONS TO MAINTENANCE FACILITY

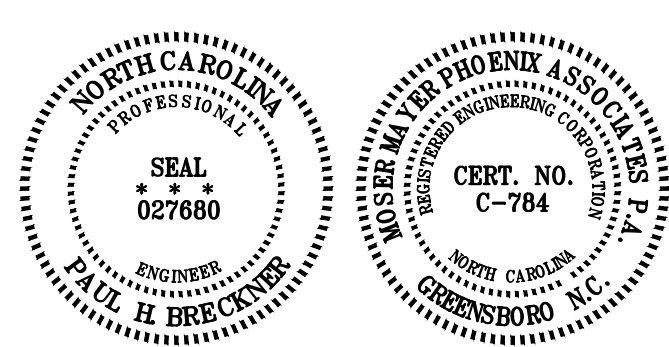
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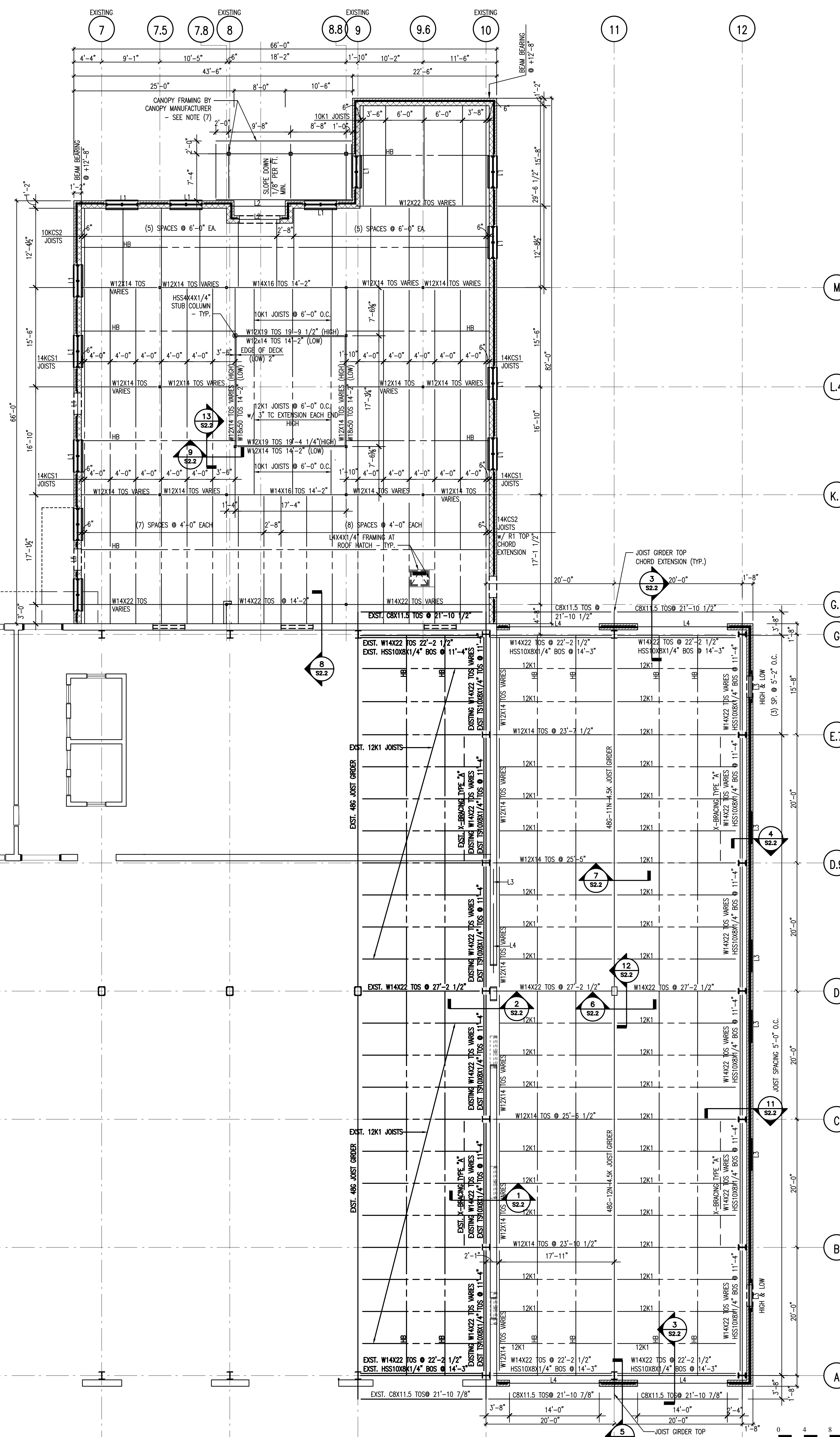


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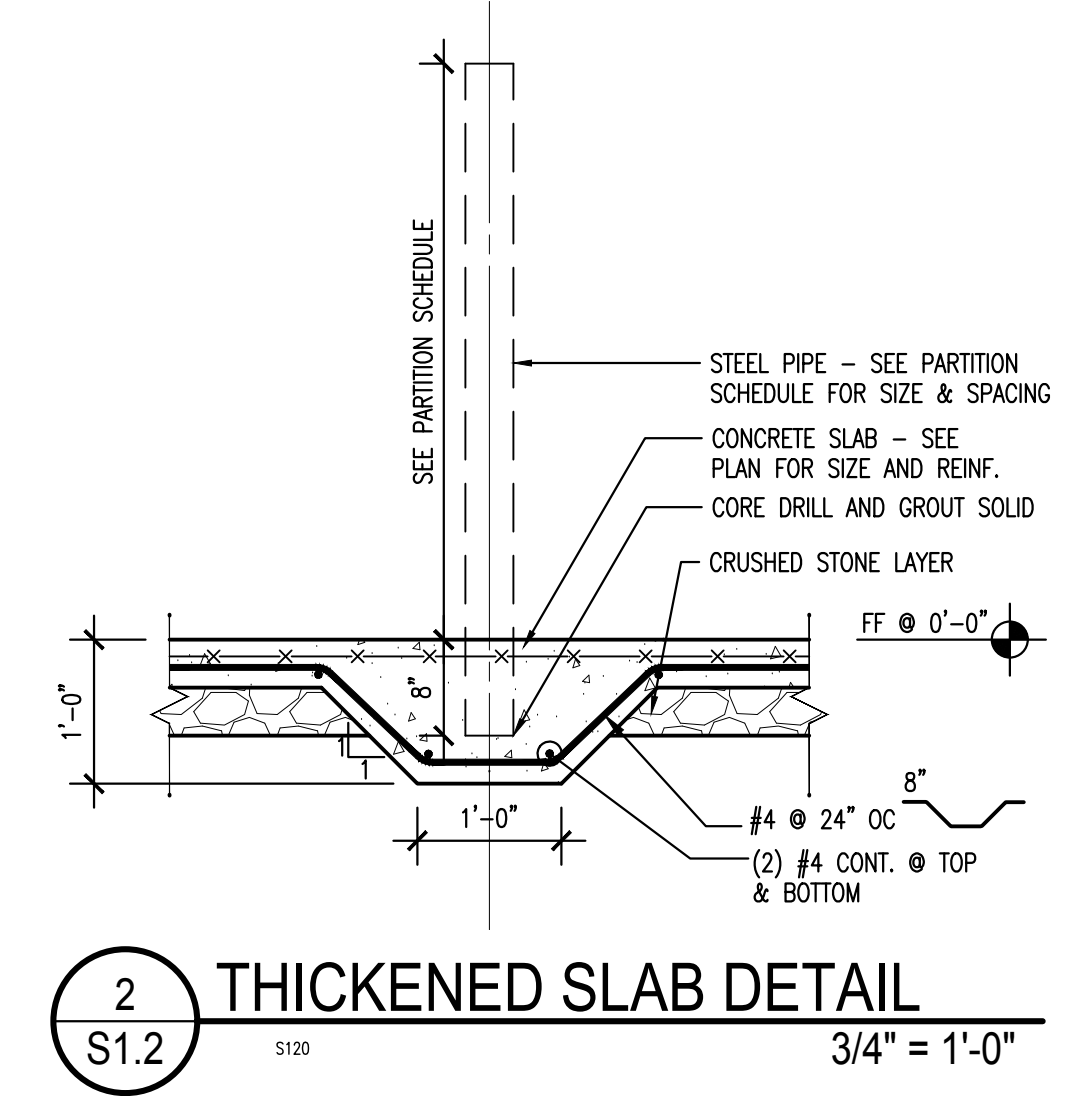
ROOF FRAMING PLAN

DATE: APRIL 28, 2006
PROJECT NUMBER: 05111.00 / 05156.00
SCALE: AS NOTED
DRAWN BY: BI

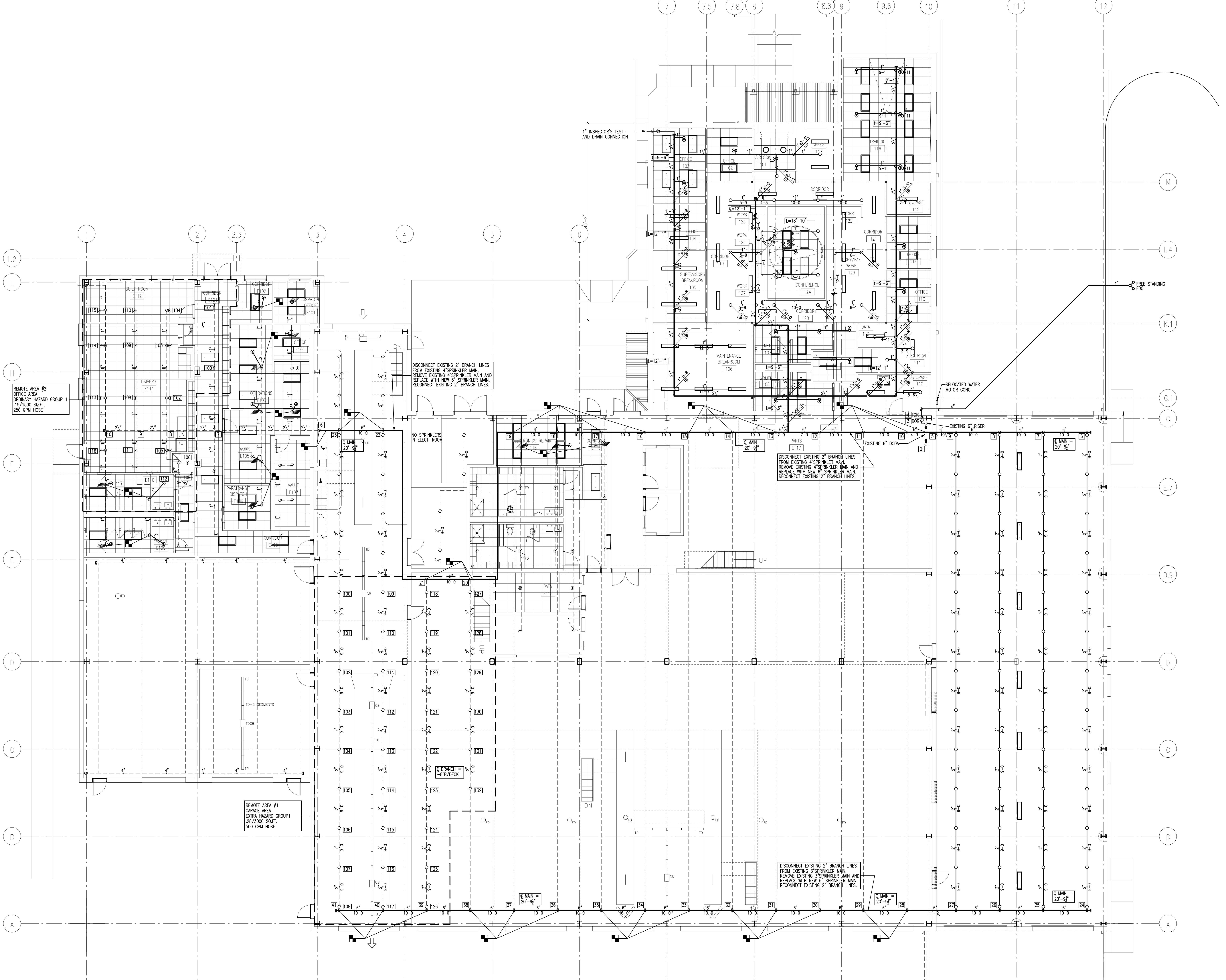


- NOTES**
1. ROOF DECK SHALL BE 1 1/2" X 20 GA. WIDE RIB (TYPE B) WITH A CANVAZED FINISH. PROVIDE L 3X3X1/4" AT PERIMETER OF DECK - TYPICAL AT ALL ROOF EDGES UNDO. PROVIDE L 4X4X1/4" AT ALL CONDENSING UNITS AND FANS. SEE ARCH. AND MECH.
 2. HB - HORIZONTAL BRIDGING
DB - DIAGONAL BRIDGING
GENERAL CONTRACTOR TO COORDINATE WITH RTU PENETRATIONS.
 3. EXTEND TOP CHORD OF JOIST GIRDER AT GRID LINES A AND G BY 3'-8".
 4. PRIOR TO FABRICATION OF ANY STEEL CONTRACTOR TO VERIFY MECHANICAL EQUIPMENT AND ROOF HATCH LOCATION, SUPPORT AND REQUIRED PENETRATIONS.
 5. ALL COLUMNS ALONG GRIDLINE L2 SHALL BE W14X43 w/ 1'-4" X 1'-0" X 1/2" BASE PLATE w/ (2) #4 AT BOTTOM w/ (2) #4 AT VENEER. L3-1/2 X 4 X 5/16" (LLV) AT VENEER. PROVIDE W8X13 w/ 3/8" THICK WEB STIFFENERS @ 24" O.C. AND W/ 1/2X14" STEEL PLATE AT BOTTOM.
(2) L5 X 3 1/2 X 5/16" (LLV) w/ CONT. STEEL PLATE 5/16" X 11 3/4" FILLET WELD S89
 6. ALL COLUMNS ALONG GRID LINES G, I, K, L, L4 AND M SHALL BE HSS4X43X8" w/ 8X8X1/2" BASE PLATE AND (4) 3/4" DIA. ANCHOR RODS.
 7. COLUMNS AT ENTRY CANOPY ARE PART OF CANOPY TO BE DESIGNED BY CANOPY MANUFACTURER. NET UPLIFT ON CANOPY IS 17 PSF. GROUND SNOW AND DRIFT LOADS ON THE CANOPY ARE AS SHOWN BELOW.
 8. NET UPLIFT ON ROOF JOIST IS 10 PSF.
 9. PROVIDE 1/2" DIA. SLEEVE ANCHORS AT 3'-0" O.C. INTO CMU.

MARK	LINTEL SIZE AND REINFORCEMENT
L1	8" BOND BEAM w/ (2) #4 AT BOTTOM w/ L3-1/2 X 4 X 5/16" (LLV) AT VENEER
L2	PROVIDE W8X13 w/ 3/8" THICK WEB STIFFENERS @ 24" O.C. AND W/ 1/2X14" STEEL PLATE AT BOTTOM
L3	(2) L5 X 3 1/2 X 5/16" (LLV) w/ CONT. STEEL PLATE 5/16" X 11 3/4" FILLET WELD S89
L4	HSS10X45X16" w/ CONT. STEEL PLATE 5/16" X 11 3/4" FILLET WELD S89
L5	PROVIDE W16X40 w/ 3/8" THICK WEB STIFFENERS @ 24" O.C. AND 1/2" X 14" CONTINUOUS STEEL PLATE AT BOTTOM. PROVIDE 1/2" DIA. X 6" STUD ANCHORS ON TOP OF WIDE FLANGE. COORDINATE STUD SPACING w/ VERTICAL WALL REINFORCING.



1 FRAMING PLAN
S1.2 1/8" = 1'-0"



REMOTE AREA #2
OFFICE AREA
ORDINARY HAZARD GROUP 1
15/1500 SQ.FT.
250 GPM HOSE

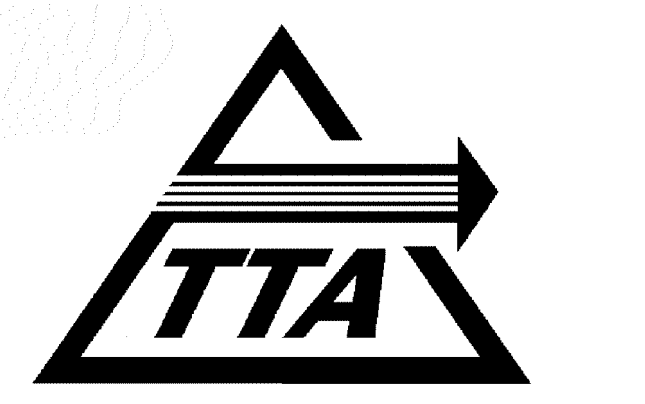
REMOTE AREA #1
GARAGE AREA
EXTRA HAZARD GROUP 1
28/3000 SQ.FT.
500 GPM HOSE

DISCONNECT EXISTING 2" BRANCH LINES FROM EXISTING 4" SPRINKLER MAIN AND REMOVE EXISTING 4" SPRINKLER MAIN AND REPLACE WITH NEW 6" SPRINKLER MAIN. RECONNECT EXISTING 2" BRANCH LINES.

DISCONNECT EXISTING 2" BRANCH LINES FROM EXISTING 4" SPRINKLER MAIN AND REMOVE EXISTING 4" SPRINKLER MAIN AND REPLACE WITH NEW 6" SPRINKLER MAIN. RECONNECT EXISTING 2" BRANCH LINES.

DISCONNECT EXISTING 2" BRANCH LINES FROM EXISTING 3" SPRINKLER MAIN AND REMOVE EXISTING 3" SPRINKLER MAIN AND REPLACE WITH NEW 6" SPRINKLER MAIN. RECONNECT EXISTING 2" BRANCH LINES.

1 FIRST FLOOR SPRINKLER PLAN
1/8"=1'-0"



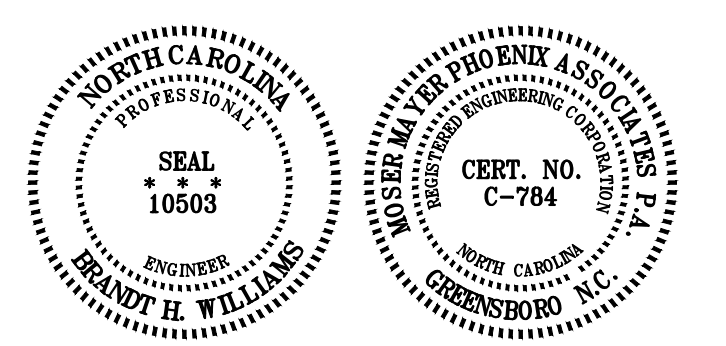
ADDITIONS TO
MAINTENANCE
FACILITY

5201 NELSON ROAD (MAINTENANCE BLDG)
5210 NELSON ROAD (VACANT LOT)
CARY, NORTH CAROLINA



MOSER
MAYER
PHOENIX
ASSOCIATES, PA

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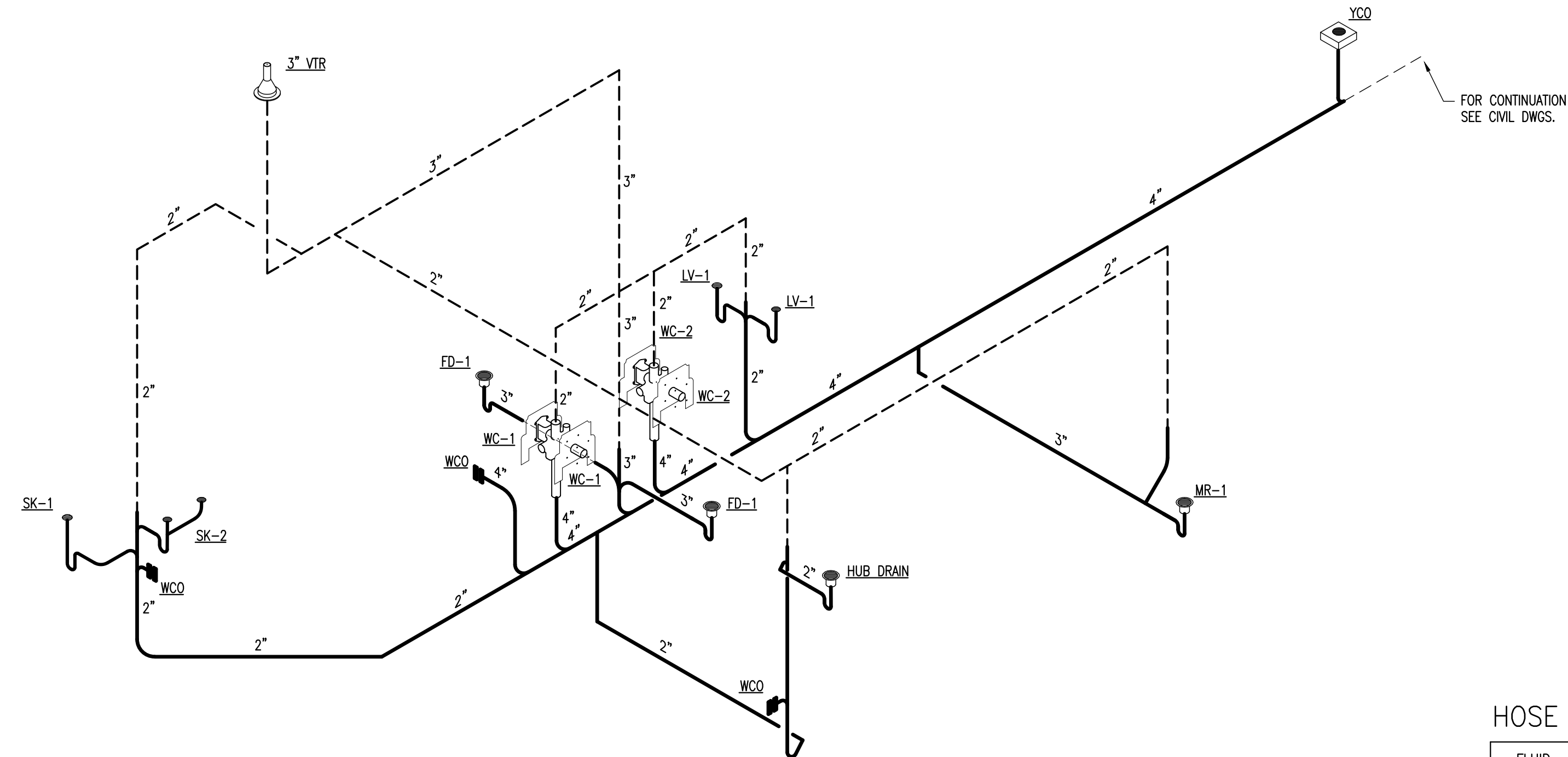
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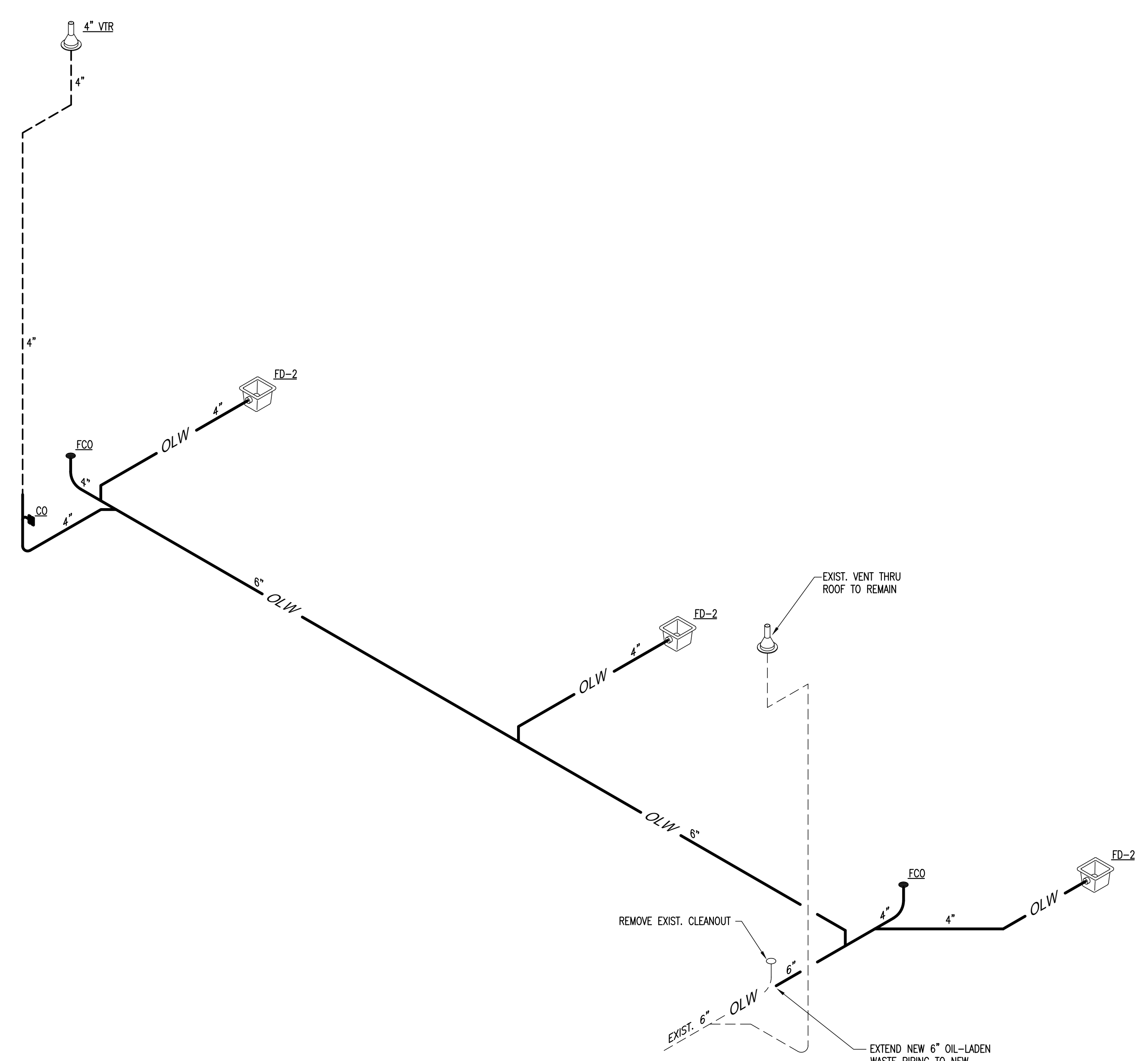
DATE	APRIL 28, 2006
PROJECT NUMBER	05111.00 / 05156.00
SCALE	AS NOTED
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FIRST FLOOR
SPRINKLER PLAN

F1.1



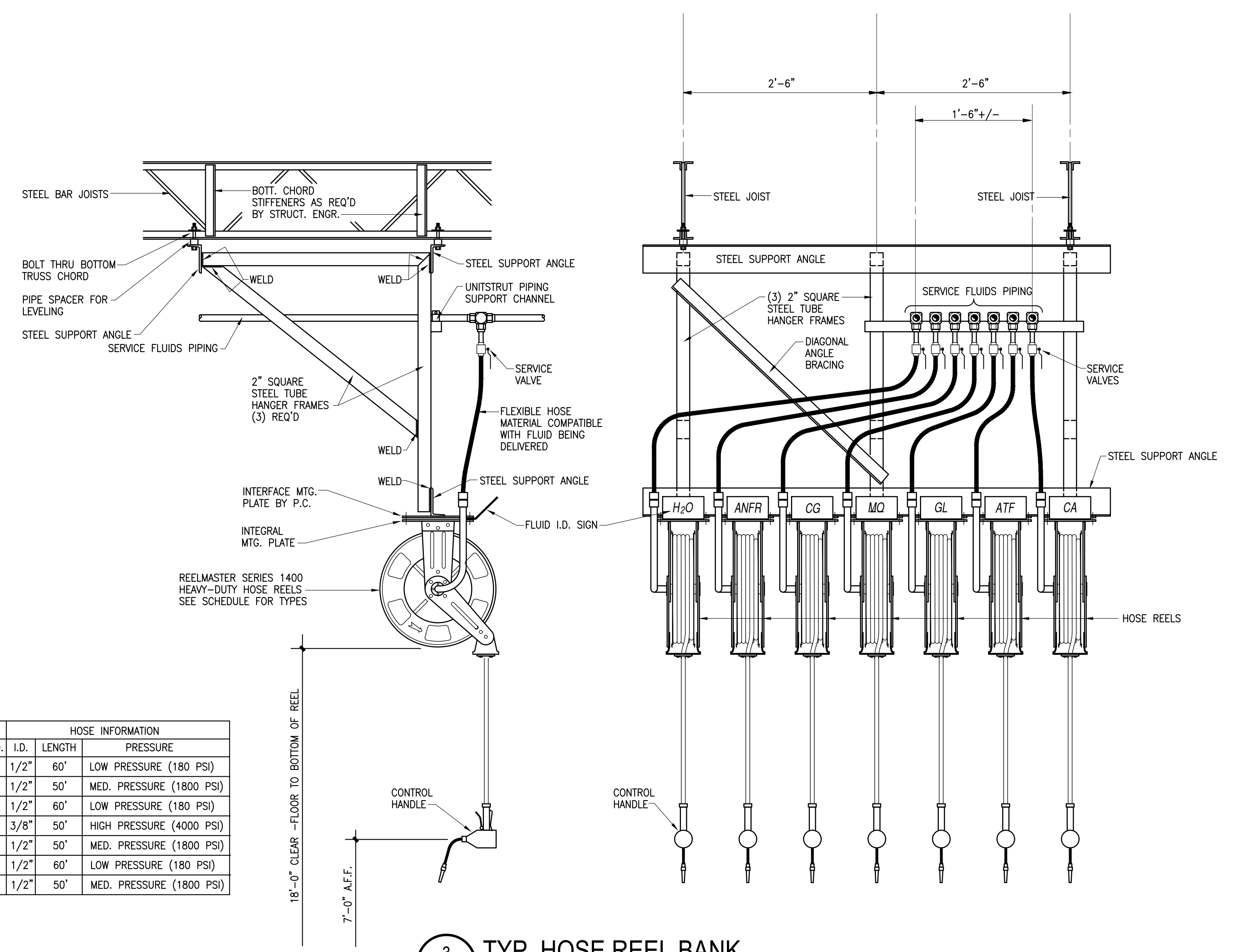
1 WASTE AND VENT DIAGRAM - TOILETS 107 AND 108
P3.1 N.T.S.



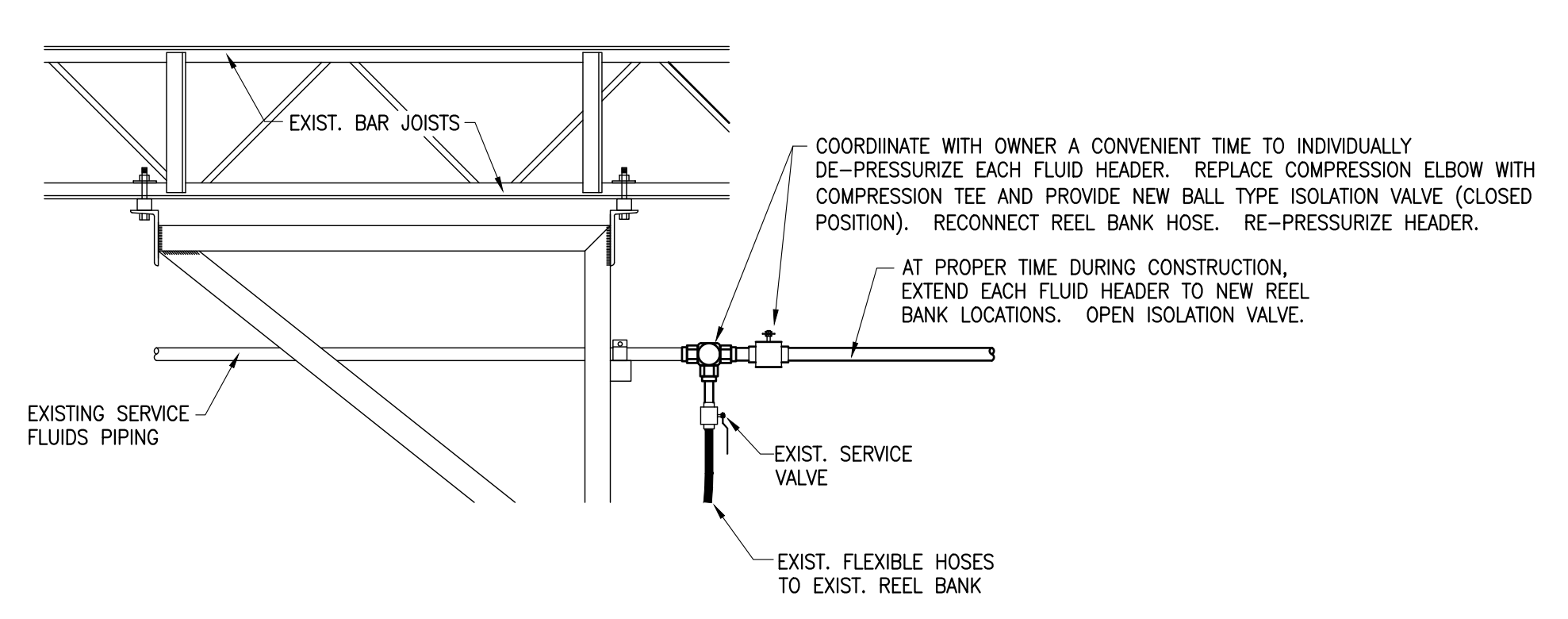
2 WASTE AND VENT DIAGRAM - MAINT. BAY DRAINS
P3.1 N.T.S.

HOSE REEL SCHEDULE

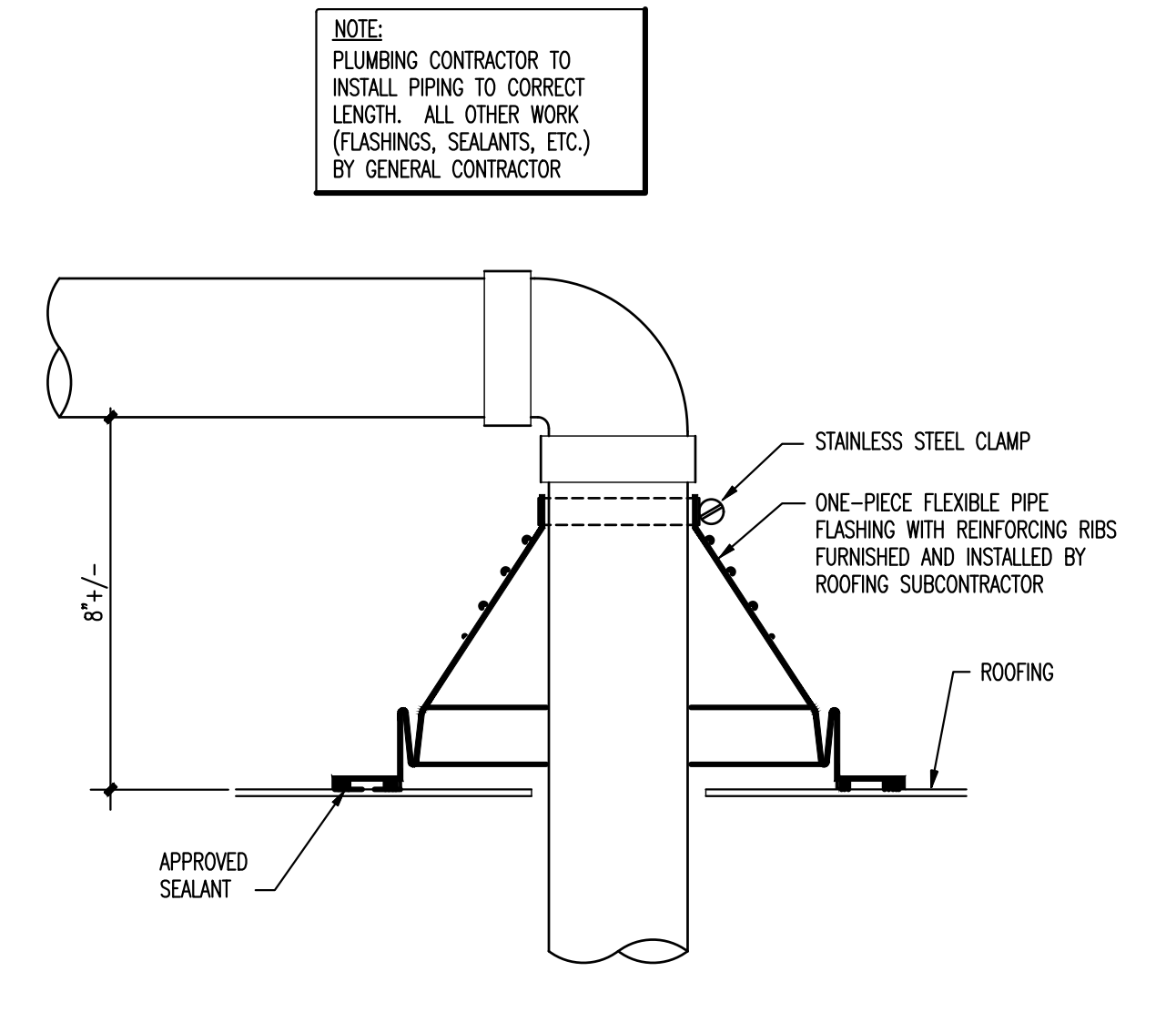
FLUID DESIGNATION	FLUID NAME	REEL INFORMATION		HOSE INFORMATION		
		MANUFACTURER	MODEL NO.	I.D.	LENGTH	PRESSURE
ANFR	ANTIFREEZE SOLUTION	GRACO	224-051	1/2"	60'	LOW PRESSURE (180 PSI)
ATF	AUTO TRANSMISSION FLUID	GRACO	224-058	1/2"	50'	MED. PRESSURE (1800 PSI)
CA	COMPRESSED AIR	GRACO	224-051	1/2"	60'	LOW PRESSURE (180 PSI)
CG	CHASSIS GREASE	GRACO	224-056	3/8"	50'	HIGH PRESSURE (4000 PSI)
GL	GEAR LUBRICANT	GRACO	224-058	1/2"	50'	MED. PRESSURE (1800 PSI)
H ₂ O	NON-POTABLE WATER	GRACO	224-051	1/2"	60'	LOW PRESSURE (180 PSI)
MO	MOTOR OIL	GRACO	224-058	1/2"	50'	MED. PRESSURE (1800 PSI)



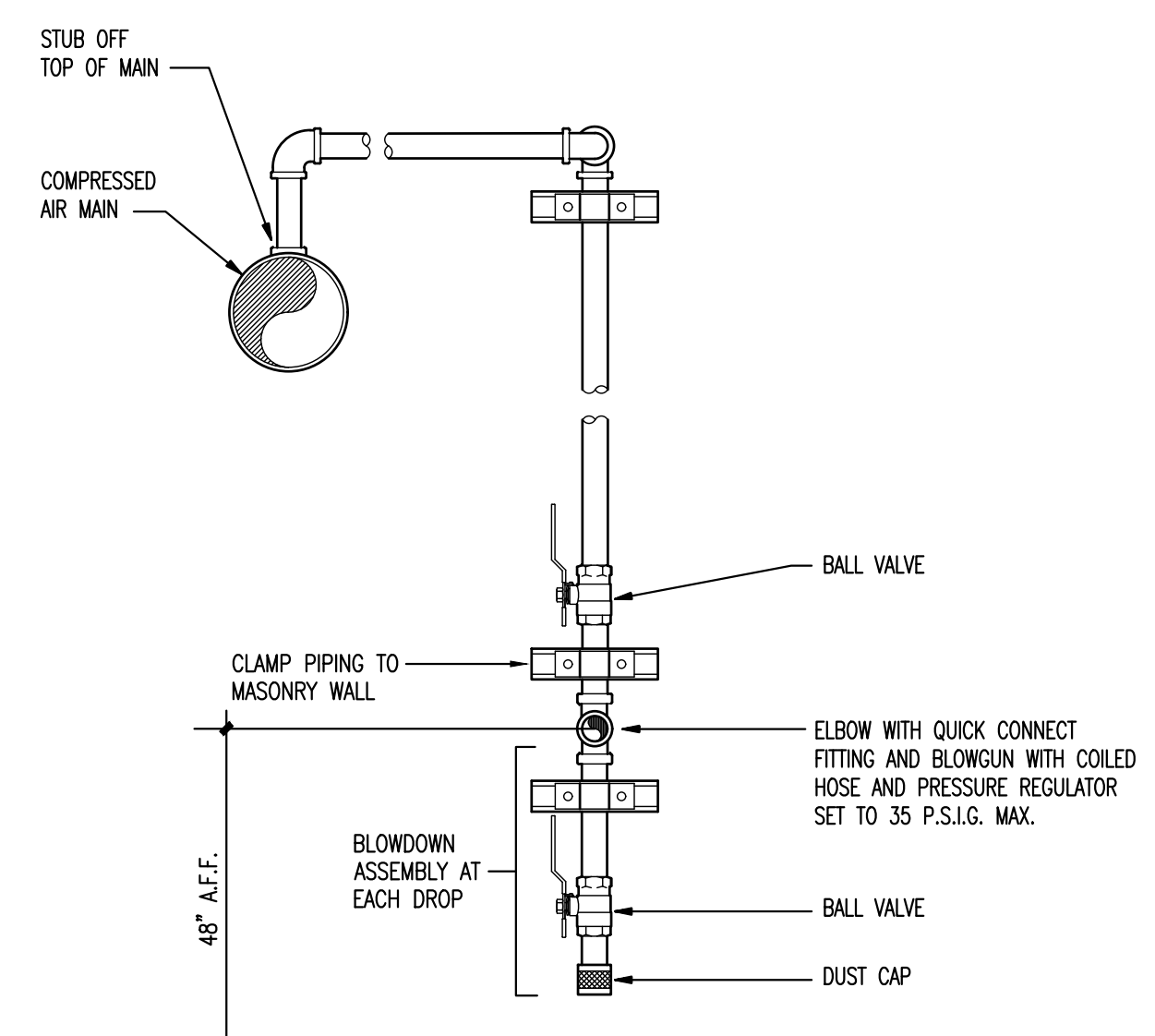
3 TYP. HOSE REEL BANK
P3.1 1" = 1'-0"



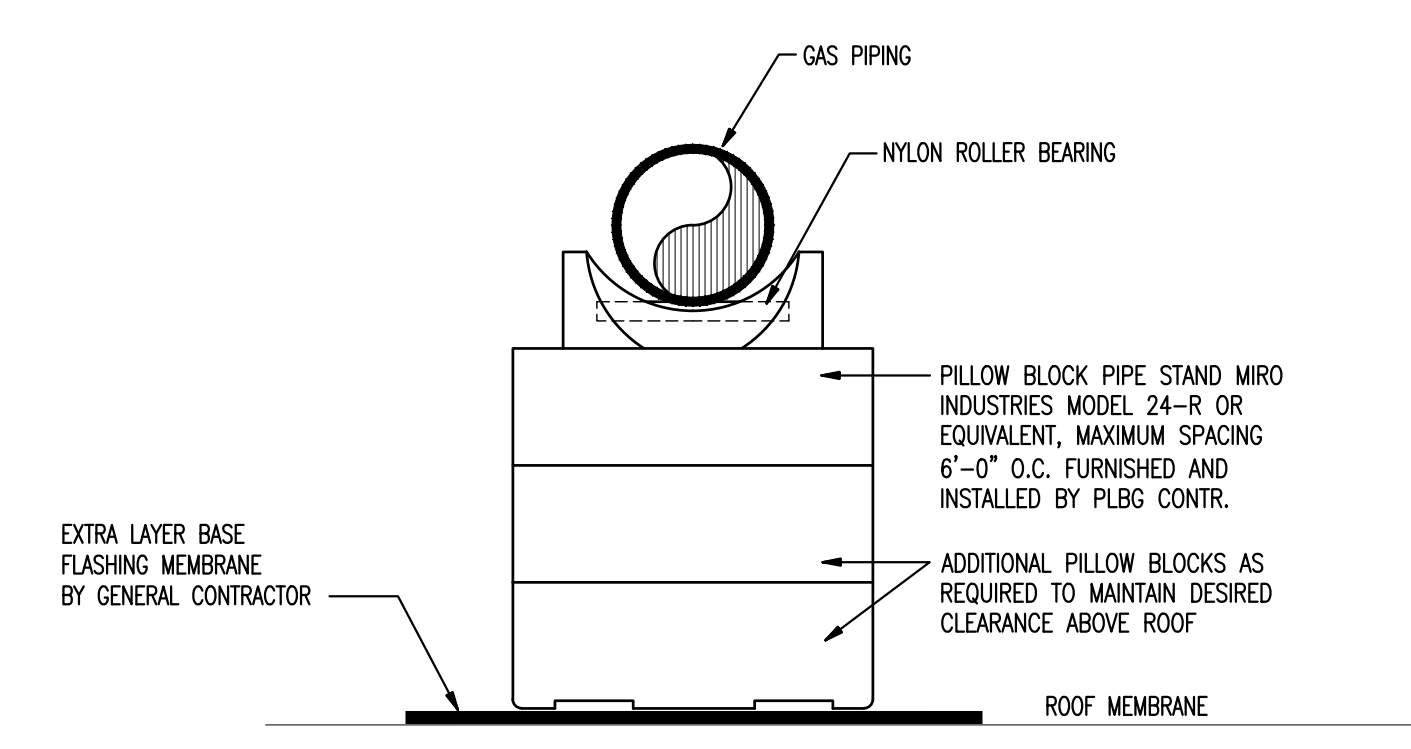
4 FLUIDS HEADER EXTENSION DETAIL
P3.1 1" = 1'-0"



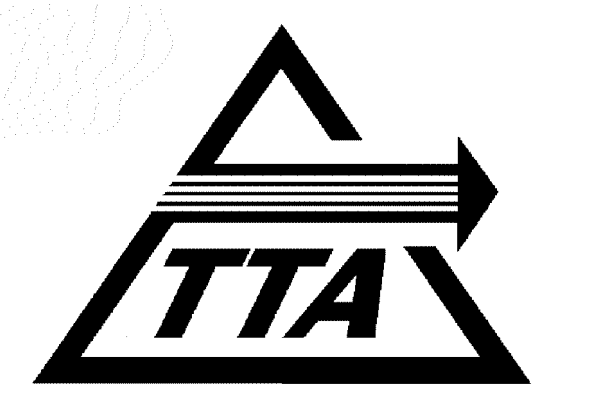
5 L.P. GAS PENETRATION AT ROOF
P3.1 N.T.S.



6 TYP. COMPRESSED AIR DROP
P3.1 N.T.S.



7 L.P. GAS PIPING SUPPORT
P3.1 N.T.S.



ADDITIONS TO MAINTENANCE FACILITY

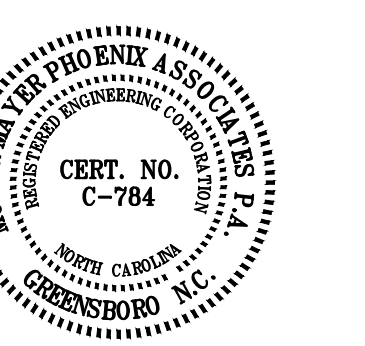
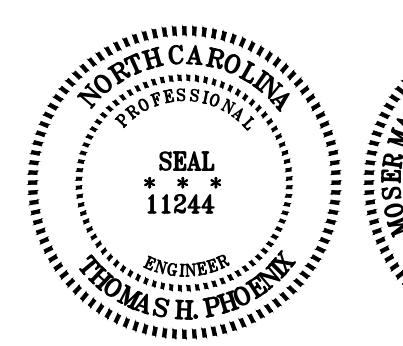
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SCALE: AS NOTED
DRAWN BY: GJM

PLUMBING DIAGRAMS AND DETAILS

P3.1

DUCTWORK LEGEND – SINGLE/DOUBLE LINE

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ALL DUCT FITTINGS

Table with columns for Single Line Symbol, Double Line Representation, and Description. It defines symbols for various duct types like standard, double standard, round, and radius elbows.

DUCTWORK – SYMBOLS

Table showing symbols for ductwork features such as duct size, change in construction, duct liner, duct section (supply/return/exhaust), elevation changes, flexible connections, detectors, backdraft dampers, motor operated dampers, manual volume dampers, fire and smoke symbols, radiation, and heat stop/radiation dampers.

SPECIALTY SYMBOLS

Table of specialty symbols including disconnect switches, hand-off/auto switch, emergency stop switch, key construction notes, keyed demolition notes, connection points, sensors (carbon dioxide, humidity, thermostat), and solenoid actuators.

PIPING – TYPES

Table defining piping types: HWS (Hot Water Supply), HMR (Hot Water Return), LPS (Low Pressure Steam), MPS (Medium Pressure Steam), HPS (High Pressure Steam), LPC (Low Pressure Condensate), and PC (Pumped Condensate).

AIR CONDITIONING AND REFRIGERATION

Table defining symbols for air conditioning and refrigeration components like chilled water supply, condenser water, and refrigerant lines.

MISCELLANEOUS

Table defining miscellaneous symbols such as compressed air, gas, condensate drain, domestic water supply, and makeup water.

WALL/RATING SYMBOLS

Table defining wall and fire rating symbols for 1-hour and 2-hour rated fire walls/partitions.

ABBREVIATIONS

Large table of abbreviations for various engineering and construction terms, including COP, CRU, CT, CTR, and many others.

PIPING – VALVES

Table defining symbols for various valves including swing gates, check valves, hose valves, gas cocks, air cocks, and globe valves.

PIPING – SPECIALTIES

Table defining specialty symbols like anchors, ball joints, expansion loops, flexible connectors, and wye-type strainers.

PIPING – FITTINGS

Table defining symbols for various pipe fittings such as caps, elbows, tees, reducers, and unions.

PROJECT: ADDITIONS TO MAINTENANCE FACILITY, TTA

Main project specification table including project name, prescriptive notes, exterior and interior design conditions, building heat load, mechanical cooling load, efficiency data, and a list of equipment efficiencies.

MECHANICAL GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS.
2. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER THE OWNERS ACCEPTANCE...
3. STATE OF NORTH CAROLINA BUILDING CODES, 2002 EDITION, ALL VOLUMES...

GENERAL DEMOLITION NOTES

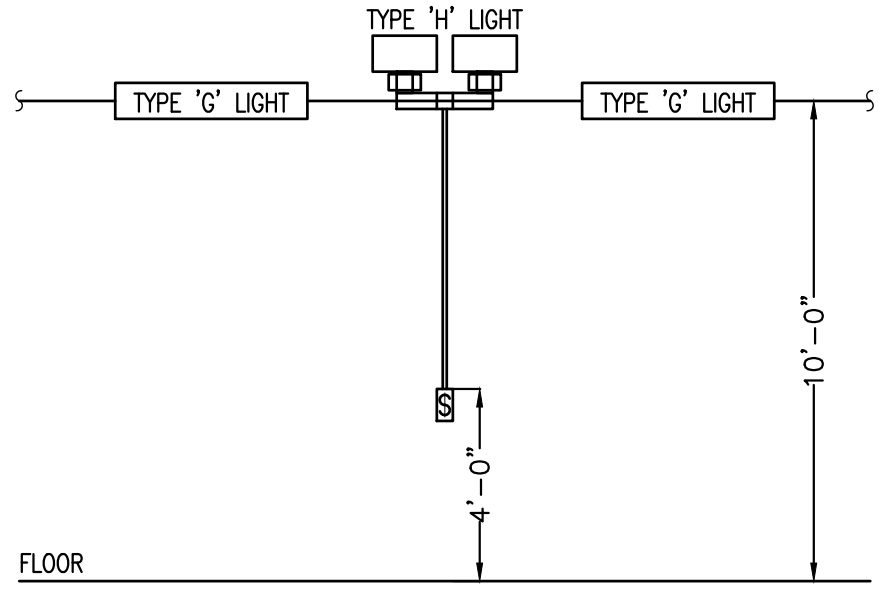
- 1. ALL EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED TO BE REMOVED BY KEVED DEMOLITION NOTES IS EXISTING.
2. REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. IS TO INCLUDE ALL ASSOCIATED HANGERS, SUPPORTS, BRACKETES, CONTROLS, AIR DEVICES, EQUIPMENT FOUNDATION/MOUNTING PADS AND APPURTENANCES PHYSICALLY ATTACHED AT THE COMMENCEMENT OF DEMOLITION...

Advertisement for TTA (Additions to Maintenance Facility) and Moser Mayer Phoenix Associates, PA. Includes contact information, logos, and a record drawing disclaimer.

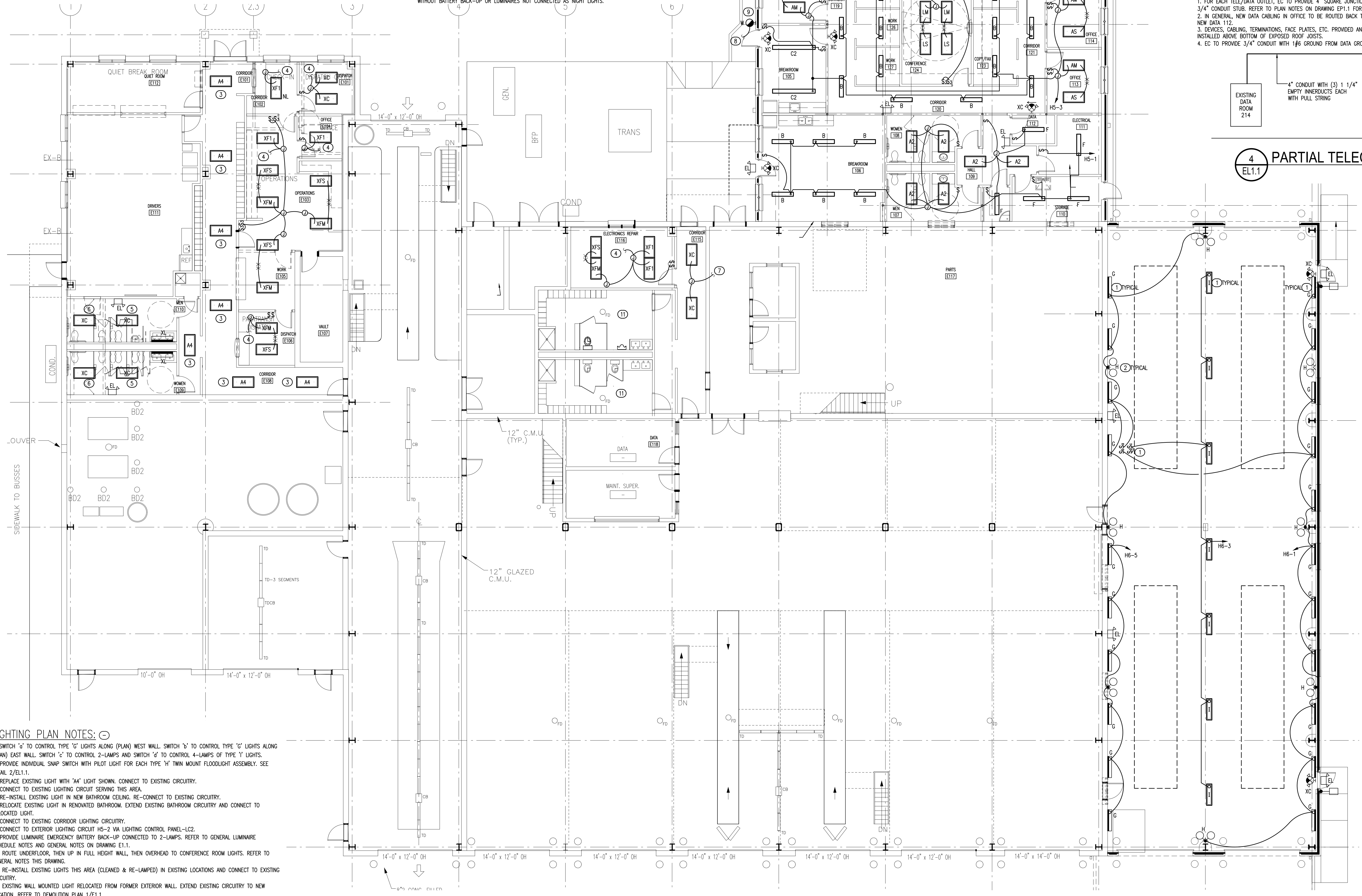
LOAD SERVED	VA PER PHASE			CKT BRKR NO.	CKT NO.	CKT BRKR NO.	VA PER PHASE	LOAD SERVED				
	A	B	C						A	B	C	
REC-DATA UPS-E118	720			1	30/1	1	25/1	1	440	REC-DATA-112		
REC-DATA UPS-E118	720			1	30/1	3	25/1	1	440	REC-DATA-112		
REC-DATA UPS-E118	720			1	30/1	5	25/1	1	440	REC-DATA-112		
REC-DATA UPS-E118	720			1	30/1	7	25/1	1	440	REC-DESPATCH-E106		
SPARE				25/1	9	10	25/1			COMP ACCESS CONTROLS		
SPARE				25/1	11	12	25/1			SPARE		
SPARE				25/1	13	14	25/1	2	440	FF-17		
SPARE				25/1	15	16	25/1	2	440	FF-3		
SPARE				25/1	17	18	25/1	2	440	FF-2.3		
SPARE				25/1	19	20	25/1			FF-2.3		
SUB-TOTAL "A"	1440	720	720									
SUB-TOTAL "B"				100			1620	1620	10800	A.I.C.		
REMARKS	ALL CIRCUITS 1/2" C-2#12 & 1#12EG U.N.O.											
	1-CIRCUIT TO BE 1/2" C-2#10 & 1#10EG											
	2-CIRCUIT RELOCATED FROM PANEL-E11											
	100				5/N			GRAND TOTAL	3060	2340	1800	MIN. SYM. AMPERES
	100				S/N			GRAND TOTAL	3060	2340	1800	LUGS/NEUT.
					BDILL FEED		AMPS / PHASE		26	20	15	

GENERAL NOTES:

1. ALL NEW CONDUITS (TELE/ DATA, POWER, LIGHTING, ETC.) EXTENDING FROM WALLS TO STRUCTURE ABOVE SHALL BE ROUTED IN WALLS THAT EXTEND TO THE STRUCTURE.
2. ALL EXITS AND EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO THE UNCONTROLLED LEG OF THE LIGHTING CIRCUIT SERVING THE AREA IN WHICH IT IS LOCATED.
3. AREAS WITH OFFBOARD CEILING: JUNCTION BOXES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS ONLY THAT DO NOT REQUIRE ACCESS PANELS IN CEILING. NOTIFY ARCHITECT/ENGINEER OF ANY UNAVOIDABLE CONFLICTS PRIOR TO INSTALLATION.
4. ALL INTERIOR "EMERGENCY" LIGHTS TO BE CONNECTED AS "NIGHT LIGHTS" TO UNSWITCHED CIRCUIT SERVING LIGHTS IN AREA LOCATED. ALL EXTERIOR "EMERGENCY" LIGHTS TO BE CONTROLLED WITH EXTERIOR LIGHTING AND "BURN" ON POWER OUTAGE.
5. ALL LIGHTING CONDUITS SHALL INCLUDE THE UNSWITCHED LEG(S) OF THE LIGHTING CIRCUIT(S) PRESENT IN THAT CONDUIT. EXCEPTION: FIXTURE CONNECTION WHIPS TO LUMINAIRES WITHOUT BATTERY BACK-UP OR LUMINAIRES NOT CONNECTED AS NIGHT LIGHTS.

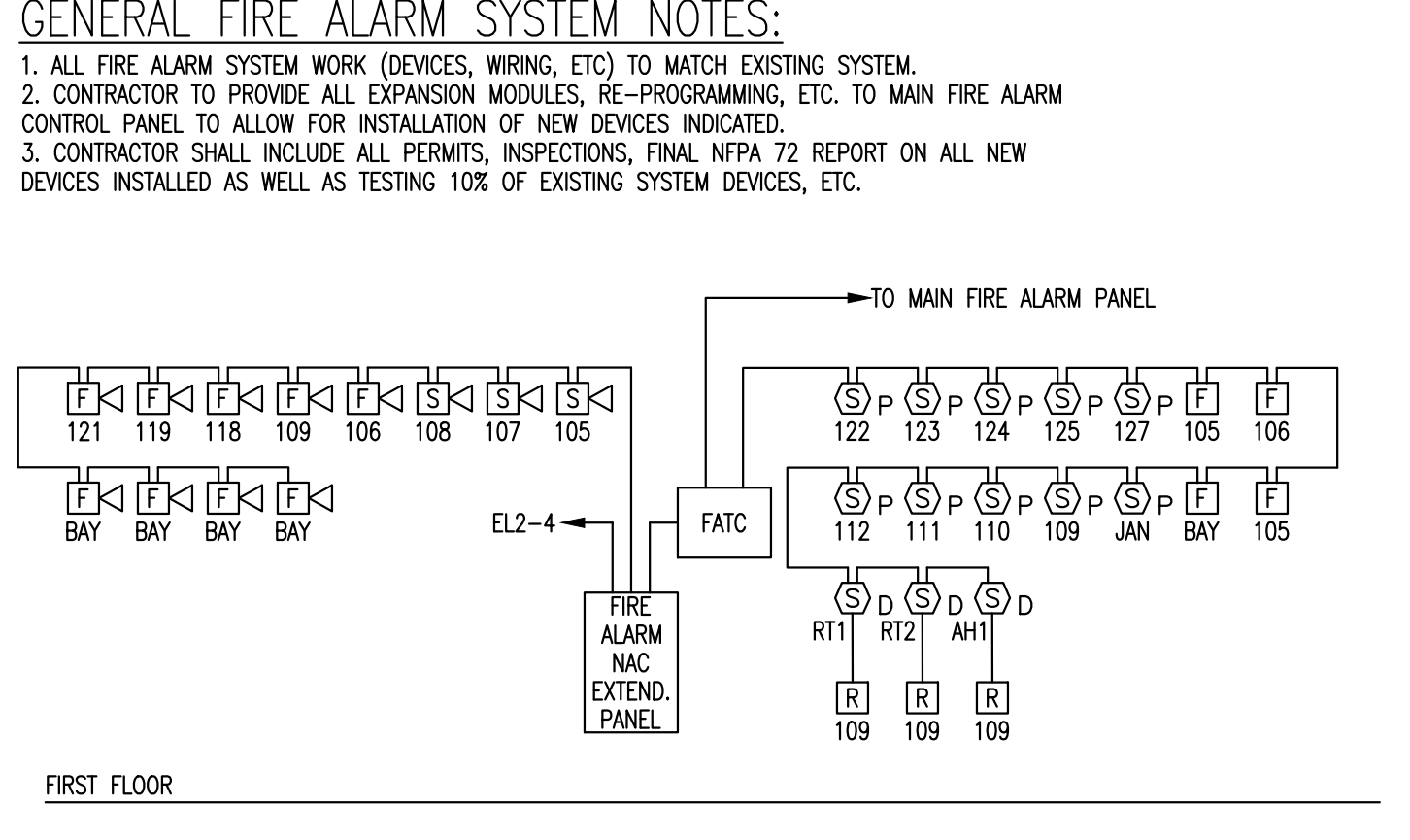


2 TYPE 'H' LUMINAIRE MOUNTING ELEVATION
NO SCALE

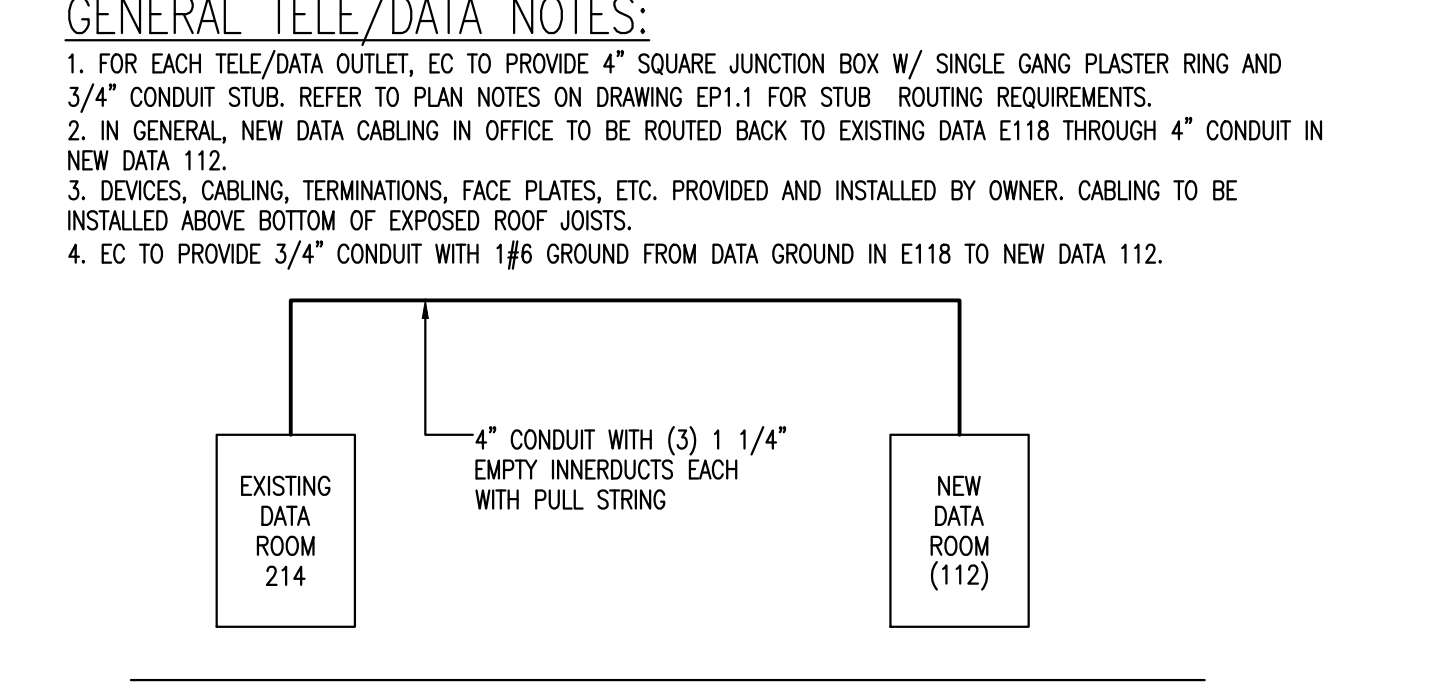


- LIGHTING PLAN NOTES:**
1. SWITCH '2' TO CONTROL TYPE 'G' LIGHTS ALONG (PLAN) WEST WALL. SWITCH '3' TO CONTROL TYPE 'G' LIGHTS ALONG (PLAN) EAST WALL. SWITCH '4' TO CONTROL 2-LAMPS AND SWITCH '5' TO CONTROL 4-LAMPS OF TYPE 'Y' LIGHTS.
 2. PROVIDE INDIVIDUAL SNAP SWITCH WITH PILOT LIGHT FOR EACH TYPE 'H' TWIN MOUNT FLOODLIGHT ASSEMBLY. SEE DETAIL 2/EL.1.1.
 3. REPLACE EXISTING LIGHT WITH 'A4' LIGHT SHOWN. CONNECT TO EXISTING CIRCUITRY.
 4. CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
 5. RE-INSTALL EXISTING LIGHT IN NEW BATHROOM CEILING. RE-CONNECT TO EXISTING CIRCUITRY.
 6. RELOCATE EXISTING LIGHT IN RENOVATED BATHROOM. EXTEND EXISTING BATHROOM CIRCUITRY AND CONNECT TO RELOCATED LIGHT.
 7. CONNECT TO EXISTING CORRIDOR LIGHTING CIRCUITRY.
 8. CONNECT TO EXTERIOR LIGHTING CIRCUIT HS-2 VIA LIGHTING CONTROL PANEL-LC2.
 9. PROVIDE LUMINAIRE EMERGENCY BATTERY BACK-UP CONNECTED TO 2-LAMPS. REFER TO GENERAL LUMINAIRE SCHEDULE NOTES AND GENERAL NOTES ON DRAWING E1.1.
 10. ROUTE UNDERLOOR, THEN UP IN FULL HEIGHT WALL, THEN OVERHEAD TO CONFERENCE ROOM LIGHTS. REFER TO GENERAL NOTES THIS DRAWING.
 11. RE-INSTALL EXISTING LIGHTS THIS AREA (CLEANED & RE-LAMPED) IN EXISTING LOCATIONS AND CONNECT TO EXISTING CIRCUITRY.
 12. EXISTING WALL MOUNTED LIGHT RELOCATED FROM FORMER EXTERIOR WALL. EXTEND EXISTING CIRCUITRY TO NEW LOCATION. REFER TO DEMOLITION PLAN 1/E1.1.

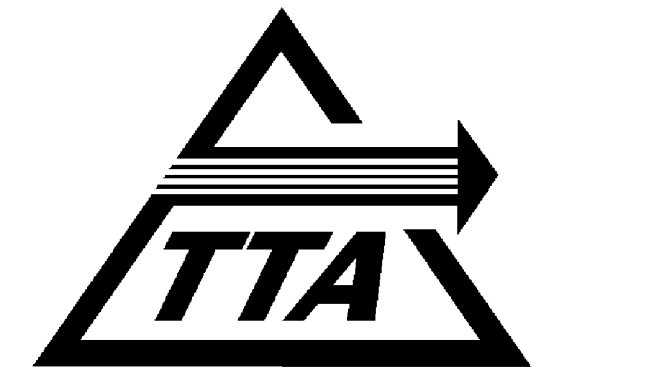
1 FIRST FLOOR - LIGHTING PLAN
NO SCALE
REFER TO GRAPHIC SCALE
GRAPHIC SCALE IN FEET 1/8" = 1'-0"



3 PARTIAL FIRE ALARM RISER
NO SCALE

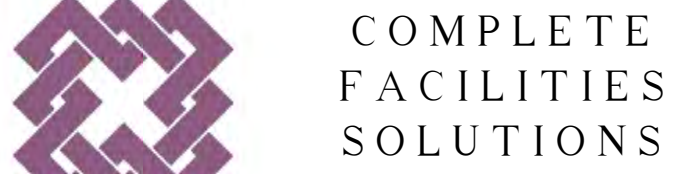


4 PARTIAL TELECOM RISER
NO SCALE

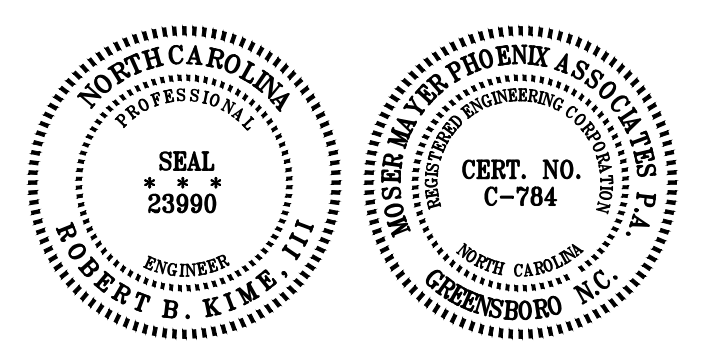


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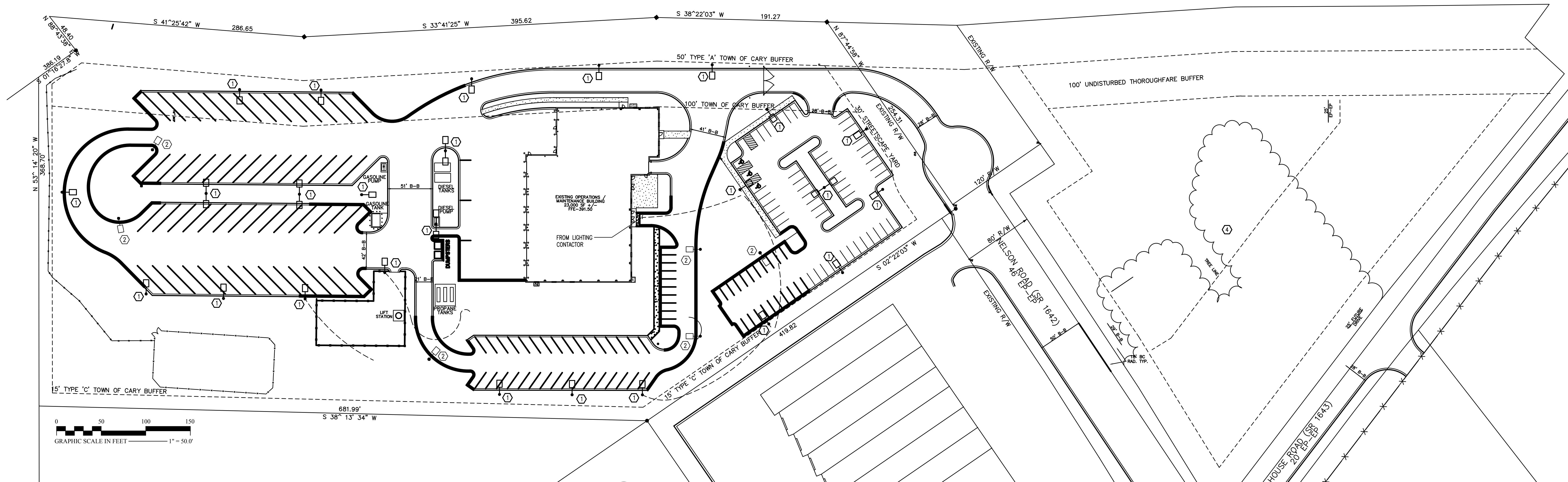


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FIRST FLOOR - LIGHTING PLAN

EL1.1



1 EXISTING SITE PLAN - ELECTRICAL
REFER TO GRAPHIC SCALE

SITE PLAN NOTES:

- EXISTING POLE/LIGHT ASSEMBLY TO REMAIN.
- EXISTING POLE/LIGHT ASSEMBLY TO BE RELOCATED. SEE NEW SITE PLAN 2/ES1.1. REMOVE EXISTING POLE BASE.
- NEW LOCATION OF RELOCATED POLE/LIGHT ASSEMBLY. PROVIDE NEW POLE BASE TO MATCH EXISTING. RELOCATE/EXTEND EXISTING CIRCUITRY TO NEW LOCATION.
- PARKING LOT LIGHTING TO BE PROVIDED BY PROGRESS ENERGY. GENERAL CONTRACTOR TO COORDINATE INSTALLATION OF CIRCUITRY, SLEEVES, ETC. SERVING PARKING LOT LIGHTING WITH PROGRESS ENERGY PRIOR TO INSTALLATION, GRADING, ETC.

ELECTRICAL SUMMARY

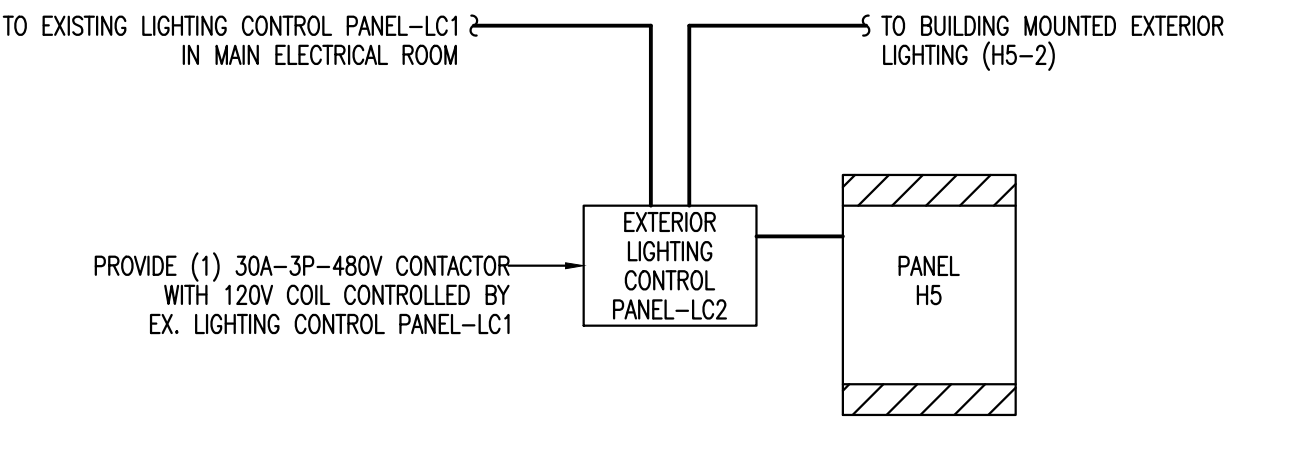
ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
 PRESCRIPTIVE PERFORMANCE ENERGY COST BUDGET

LUMINAIRE SCHEDULE LOCATED ON SHEET EL1.1
 SEE LUMINAIRE SCHEDULE LAMP TYPE REQUIRED IN LUMINAIRE
 NUMBER OF LAMPS IN LUMINAIRE
 BALLAST TYPE USED IN LUMINAIRE
 TOTAL WATTAGE FOR LUMINAIRE
 TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED
 EXTERIOR SOURCES SPECIFIED ARE MINIMUM 80 LUMENS/WATT.

EQUIPMENT SCHEDULES WITH MOTORS NOT USED FOR MECHANICAL SYSTEMS) N/A

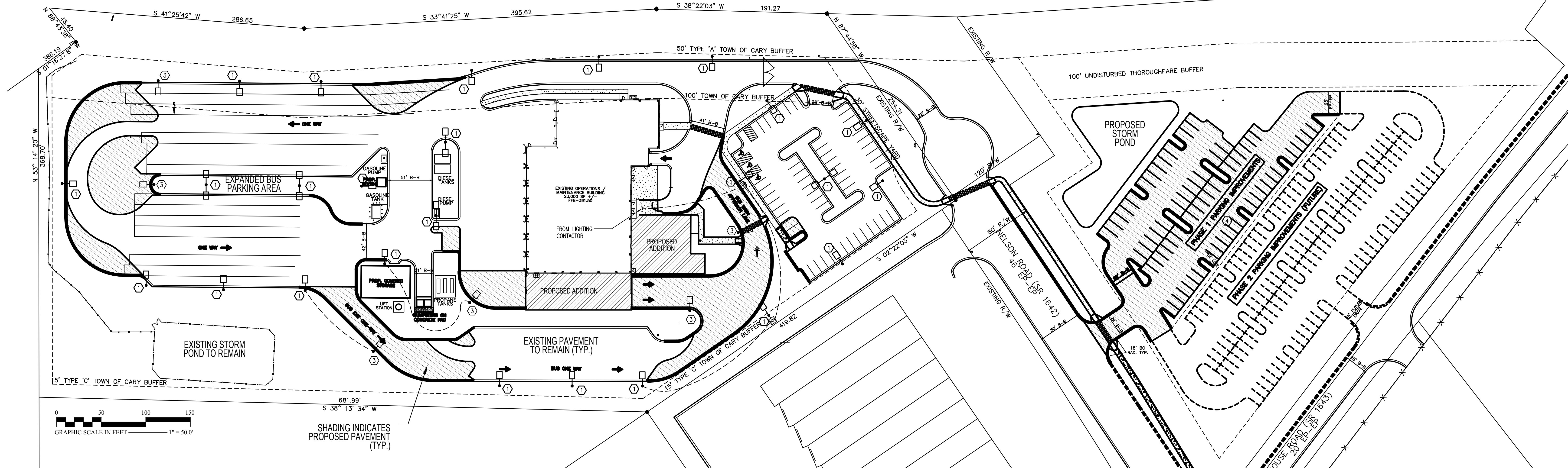
N/A MOTOR HORSEPOWER
 - NUMBER OF PHASES
 - MINIMUM EFFICIENCY
 - MOTOR TYPE
 - NUMBER OF POLES



3 EXTERIOR LIGHTING CONTROL
NO SCALE

EXTERIOR LUMINAIRE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	LAMP(S) TYPE	WATT.	BALLAST(S) TYPE	WATT.	FIXTURE VOLTAGE	MOUNTING	REMARKS
P1	LITHONIA	KSF2 SERIES	1 CLEAR ED28 PULSE				30"-0" SQUARE	ARCHITECTURAL ARM-MOUNTED CUTOFF AREA LIGHT/POLE ASSEMBLY;	
	EMCO	ECAT81 SERIES	START METAL HALIDE	320	SCWA	270	120/277V	30"-0" SQUARE STRAIGHT STEEL POLE; DARK BRONZE POLE AND LIGHT;	
	SPALDING	SEI SERIES	2 HORIZONTAL POSITION			680		RATED FOR 100 MPH WINDS AND 1.3 GUST FACTOR	
P2	LUMARK	EQUAL	2					P1 - SINGLE HEAD POLE ASSEMBLY W/ TYPE V CUTOFF REFLECTORS	
	GE	EQUAL						P2 - TWIN HEAD POLE ASSEMBLY W/ TYPE V CUTOFF REFLECTORS	
K	PEACHTREE	PCTS SERIES						NOMINAL 9" DIAMETER, 11" HIGH OPEN CYLINDER WITH (2) 26 WATT	
	GARDCO	EQUAL	2 TRIPLE TUBE					COMPACT FLUORESCENT LAMPS; 120/277V ELECTRONIC BALLAST;	
	MCGRAW EDISON	EQUAL	2 COMPACT FLUORESCENT	26	1	2-LAMP ELECTRONIC	55	9'-0" AFF TO BOTTOM	
	HUBBELL	EQUAL	4100" K					CLEAR ALZAK REFLECTOR; HANG STRAIGHT SWIVEL STEM;	
	COLUMBIA	EQUAL							
W	LITHONIA	WST SERIES						ARCHITECTURAL BUILDING MOUNTED AREA LIGHT W/ (2) 42 WATT	
	GARDCO	101 SERIES	2 TRIPLE TUBE					TRIPLE TUBE COMPACT FLUORESCENT LAMPS; 120/277V; ELECTRONIC	
	LUMARK	PL-#-T SERIES	2 COMPACT FLUORESCENT	42	1	2-LAMP ELECTRONIC	86	BALLAST; CUSTOM COLOR TO BE DETERMINED BY ARCHITECT	
	GE	EQUAL	4100" K						
	COLUMBIA	EQUAL							



2 NEW SITE PLAN - ELECTRICAL
REFER TO GRAPHIC SCALE

TTA

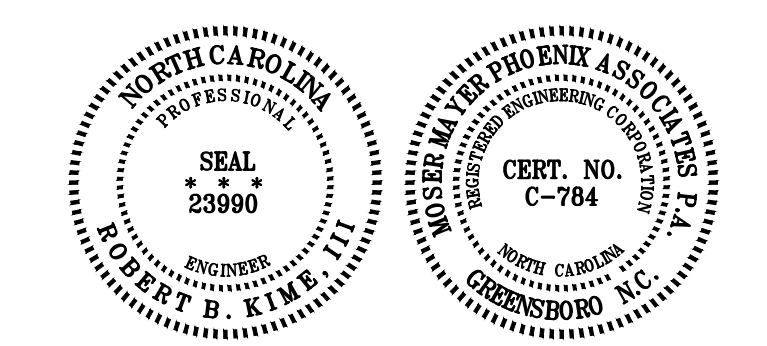
ADDITIONS TO MAINTENANCE FACILITY

5201 NELSON ROAD (MAINTENANCE BLDG)
 5210 NELSON ROAD (VACANT LOT)
 CARY, NORTH CAROLINA

COMPLETE FACILITIES SOLUTIONS

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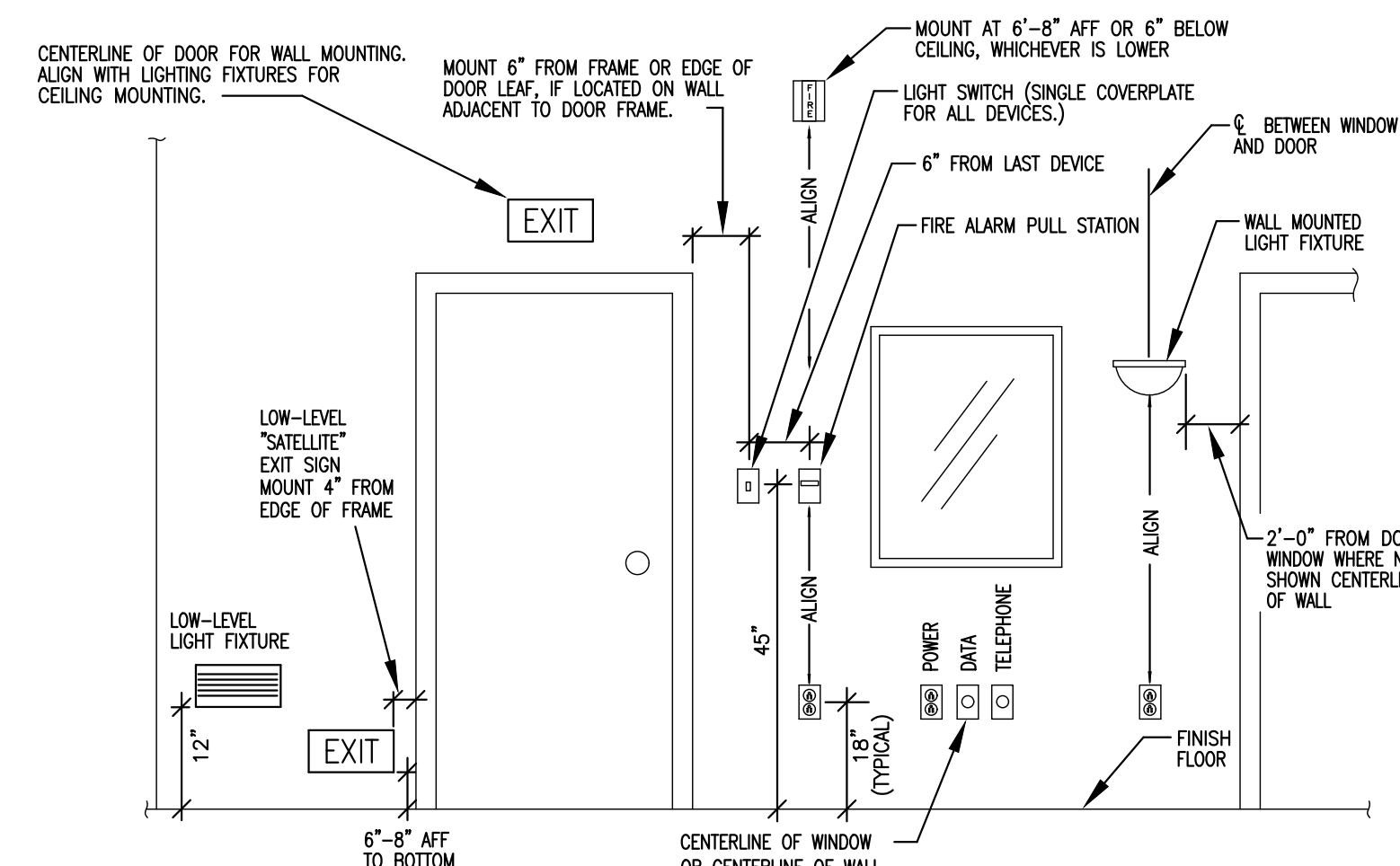
REVISIONS

NO.	DATE	DESCRIPTION
1	05/12/2006	ADD GENERAL NOTE STATEMENT

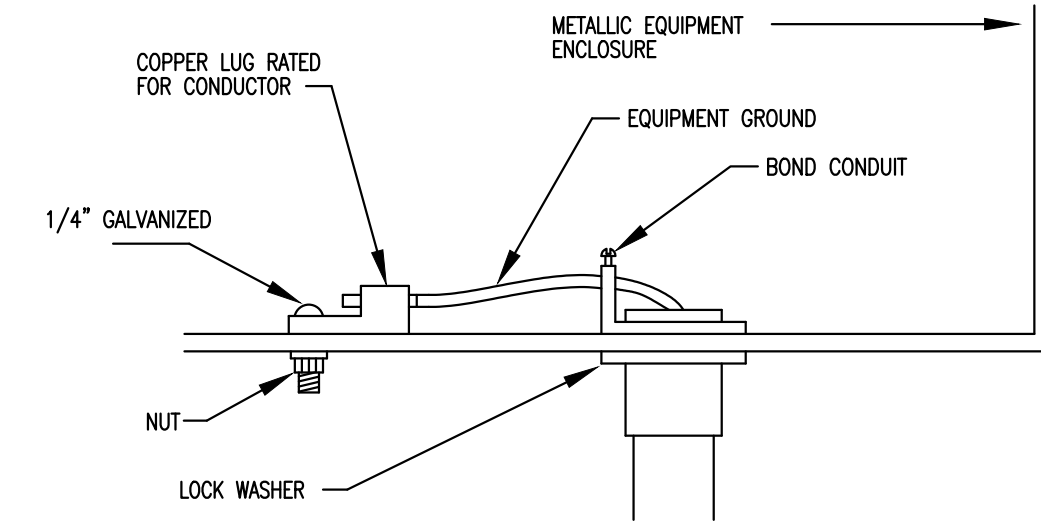
DATE: APRIL 28, 2006
 PROJECT NUMBER: 05111.00 / 05156.00
 SCALE: AS NOTED
 DRAWN BY: DRMBV

EXTERIOR LUMINAIRE SCHEDULE; SITE PLAN

ES1.1



1 MOUNTING HEIGHTS AND ALIGNMENT CRITERIA
E2.1 NO SCALE



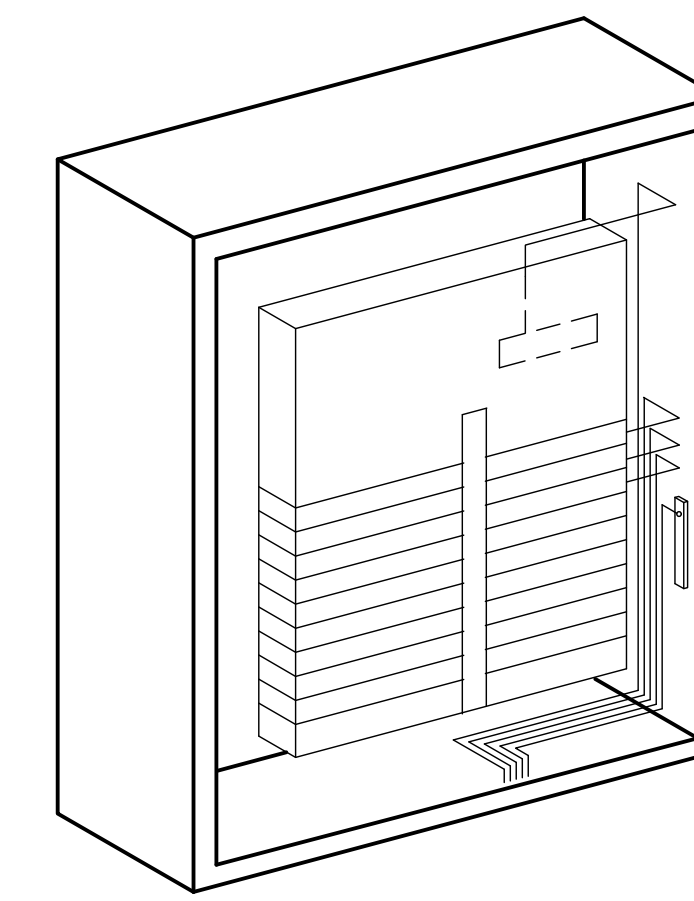
2 TYPICAL EQUIPMENT GROUNDING
E2.1 NO SCALE

PANEL "A"
120/208V, 34kW, 225A
FED FROM MDP-21
INSTALLED 12/23/97

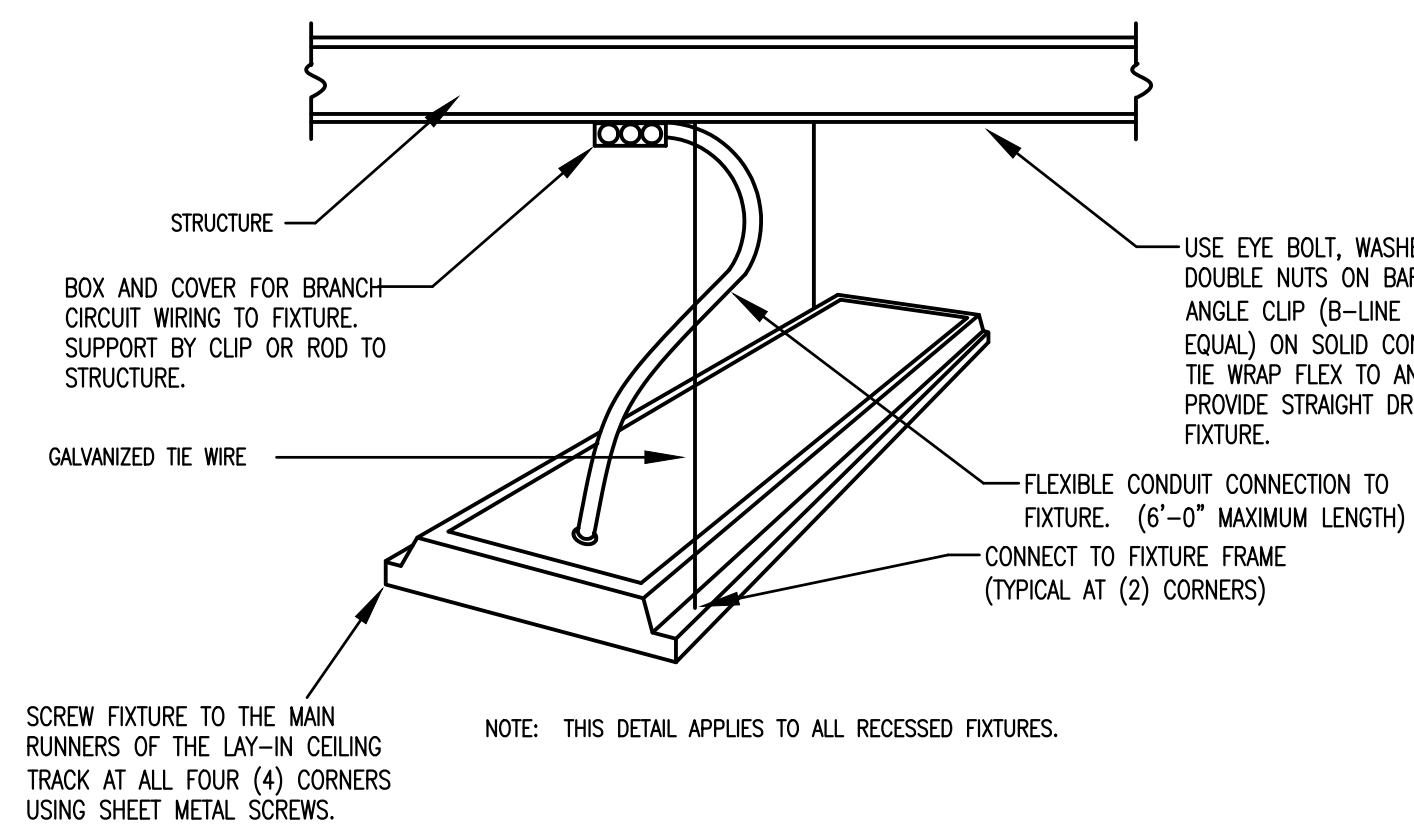
DISC 44#1
480V, 343kW, 100A
FED FROM MDP-21,23,25
INSTALLED 12/23/97

NOTE:
1. REFER TO SPECIFICATION SECTION 16195 FOR ADDITIONAL INFORMATION.
2. SUBMIT COMPLETE LIST OF PROPOSED NAMEPLATES TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

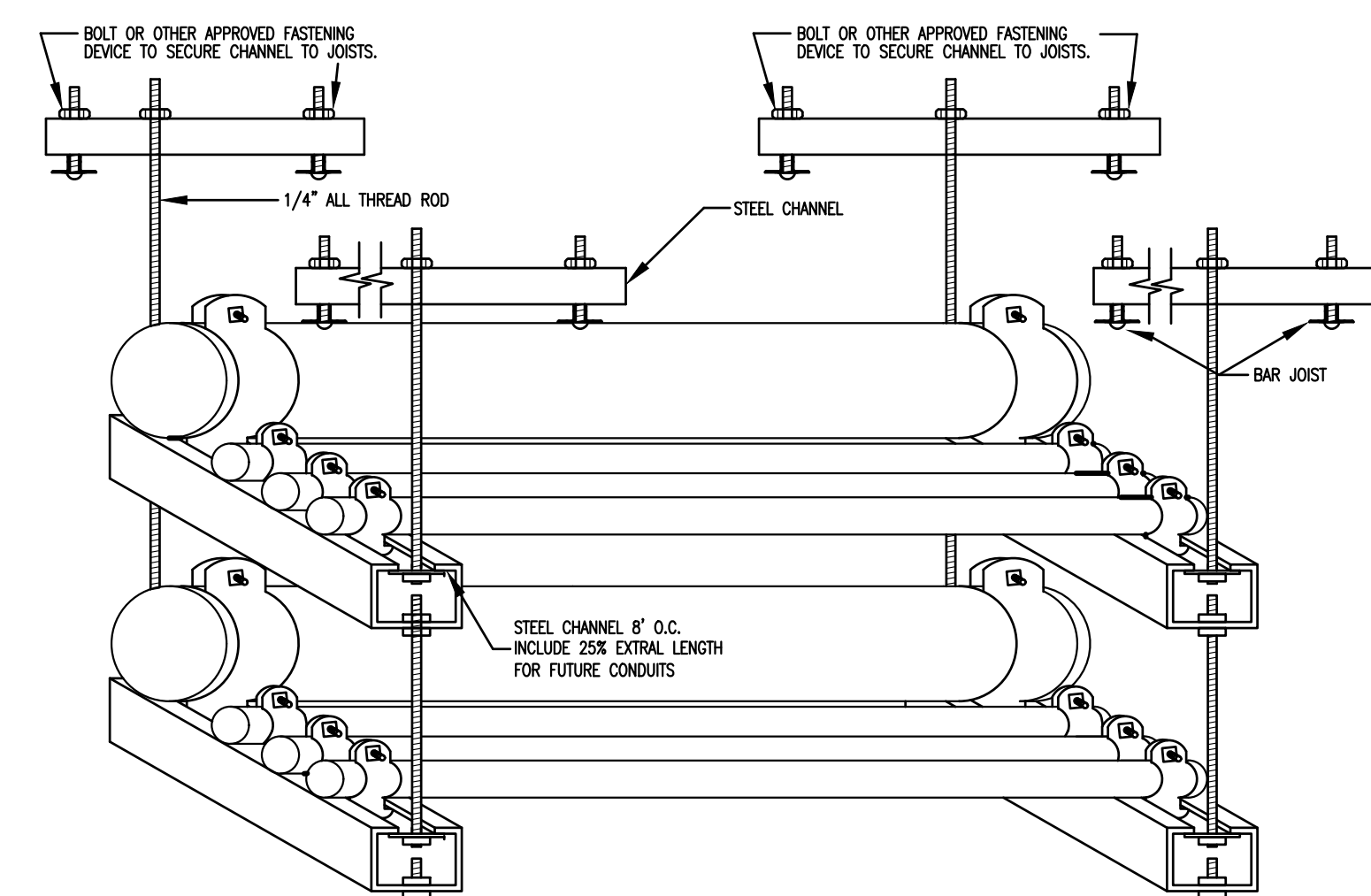
3 TYPICAL NAMEPLATE DETAIL
E2.1 NO SCALE



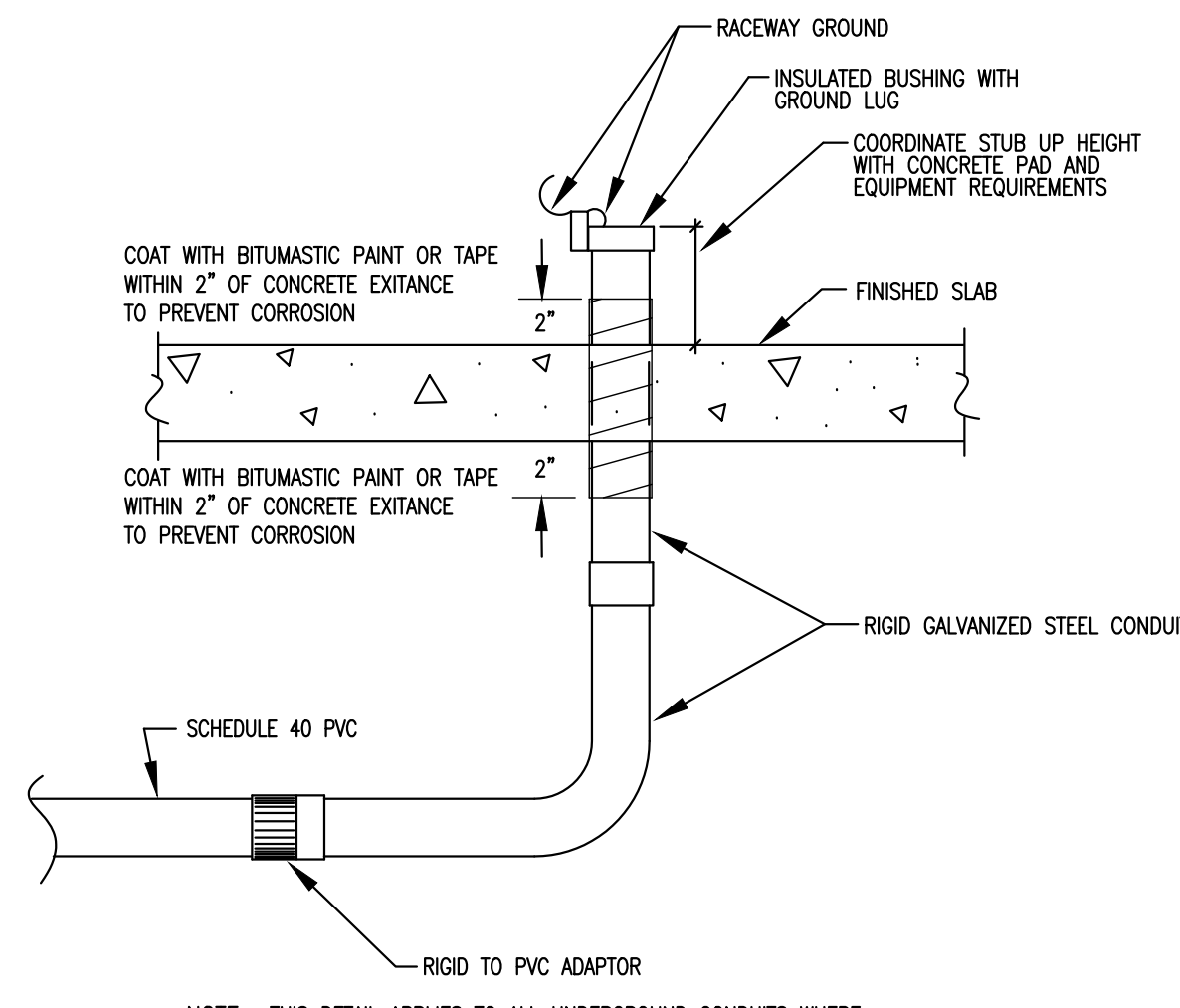
4 TYPICAL PANELBOARD WORKMANSHIP
E2.1 NO SCALE



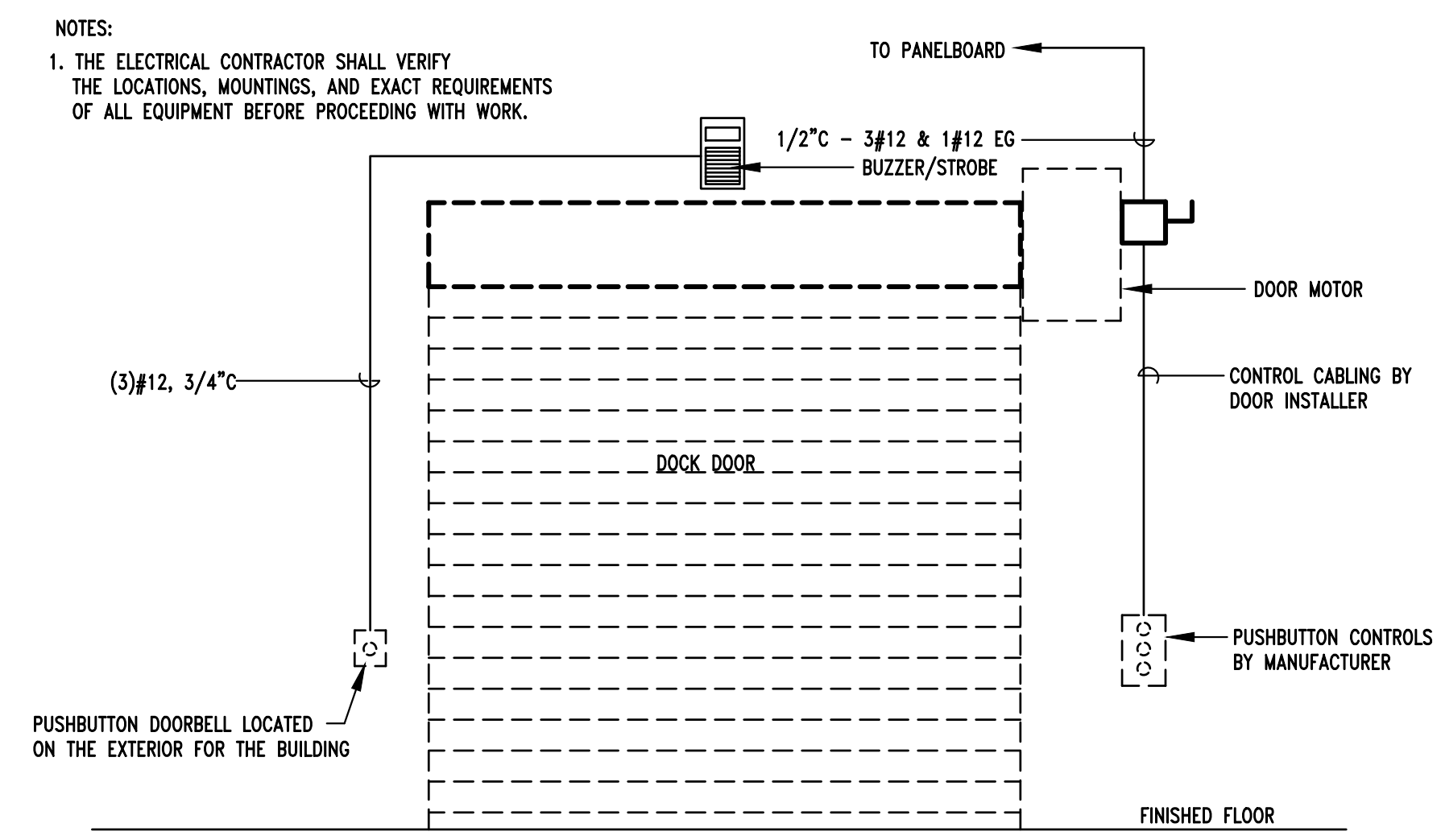
5 TYPICAL RECESSED FIXTURE SUPPORT
E2.1 NO SCALE



6 TYPICAL CONDUIT SUPPORT DETAIL
E2.1 NO SCALE

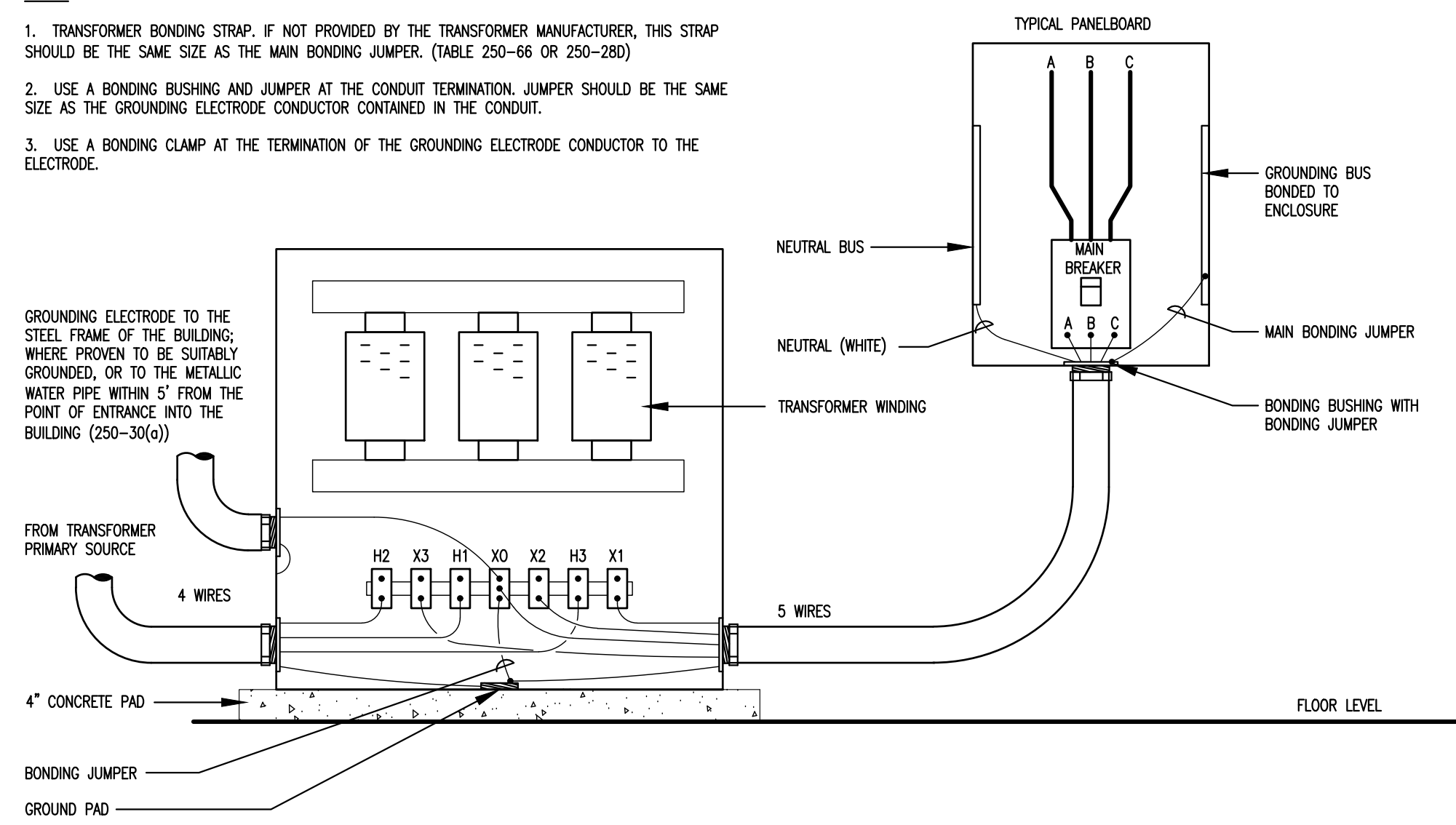


7 TYPICAL CONDUIT STUB UP
E2.1 NO SCALE

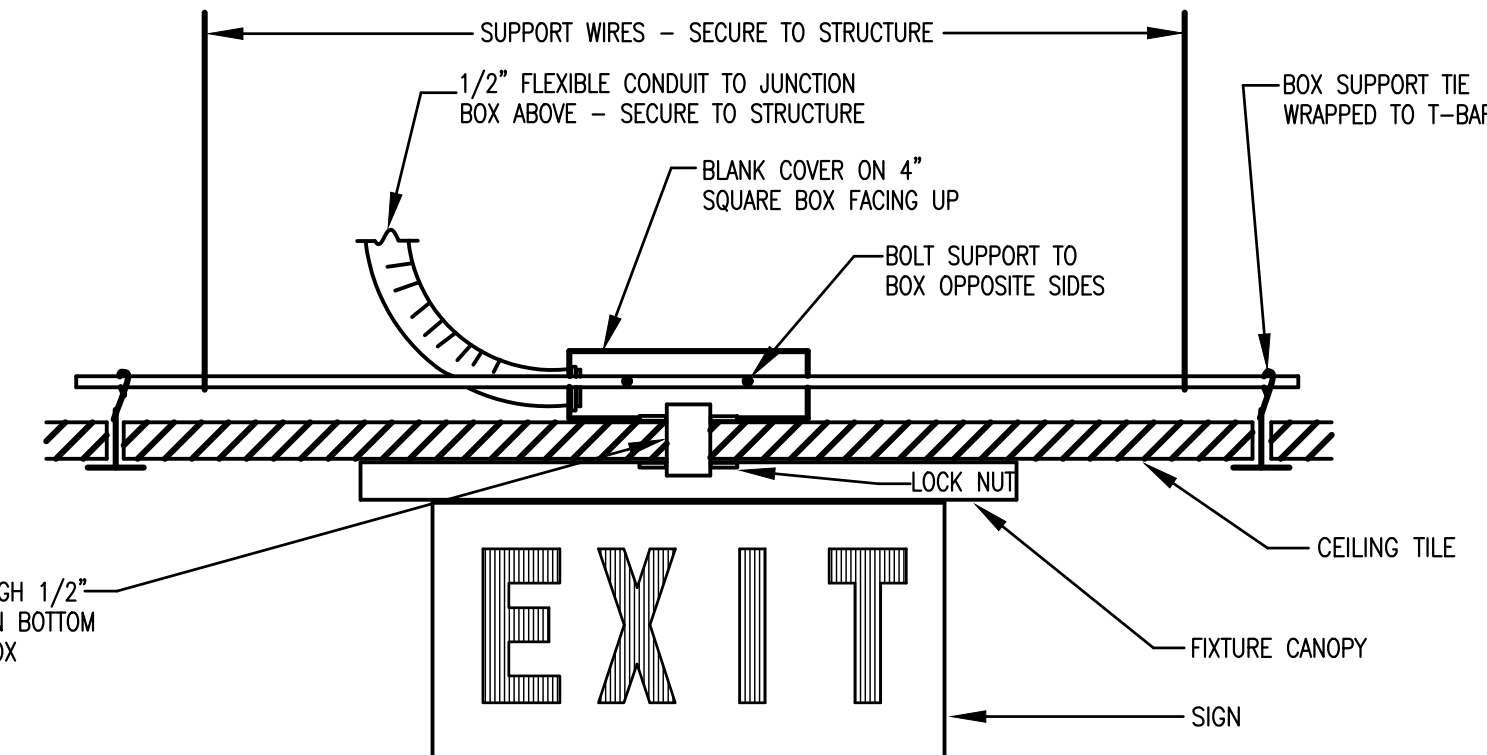


8 TYPICAL MOTORIZED DOOR CONNECTIONS
E2.1 NO SCALE

NOTE:
1. TRANSFORMER BONDING STRAP, IF NOT PROVIDED BY THE TRANSFORMER MANUFACTURER, THIS STRAP SHOULD BE THE SAME SIZE AS THE MAIN BONDING JUMPER. (TABLE 250-66 OR 250-280)
2. USE A BONDING BUSHING AND JUMPER AT THE CONDUIT TERMINATION. JUMPER SHOULD BE THE SAME SIZE AS THE GROUNDING ELECTRODE CONDUCTOR CONTAINED IN THE CONDUIT.
3. USE A BONDING CLAMP AT THE TERMINATION OF THE GROUNDING ELECTRODE CONDUCTOR TO THE ELECTRODE.

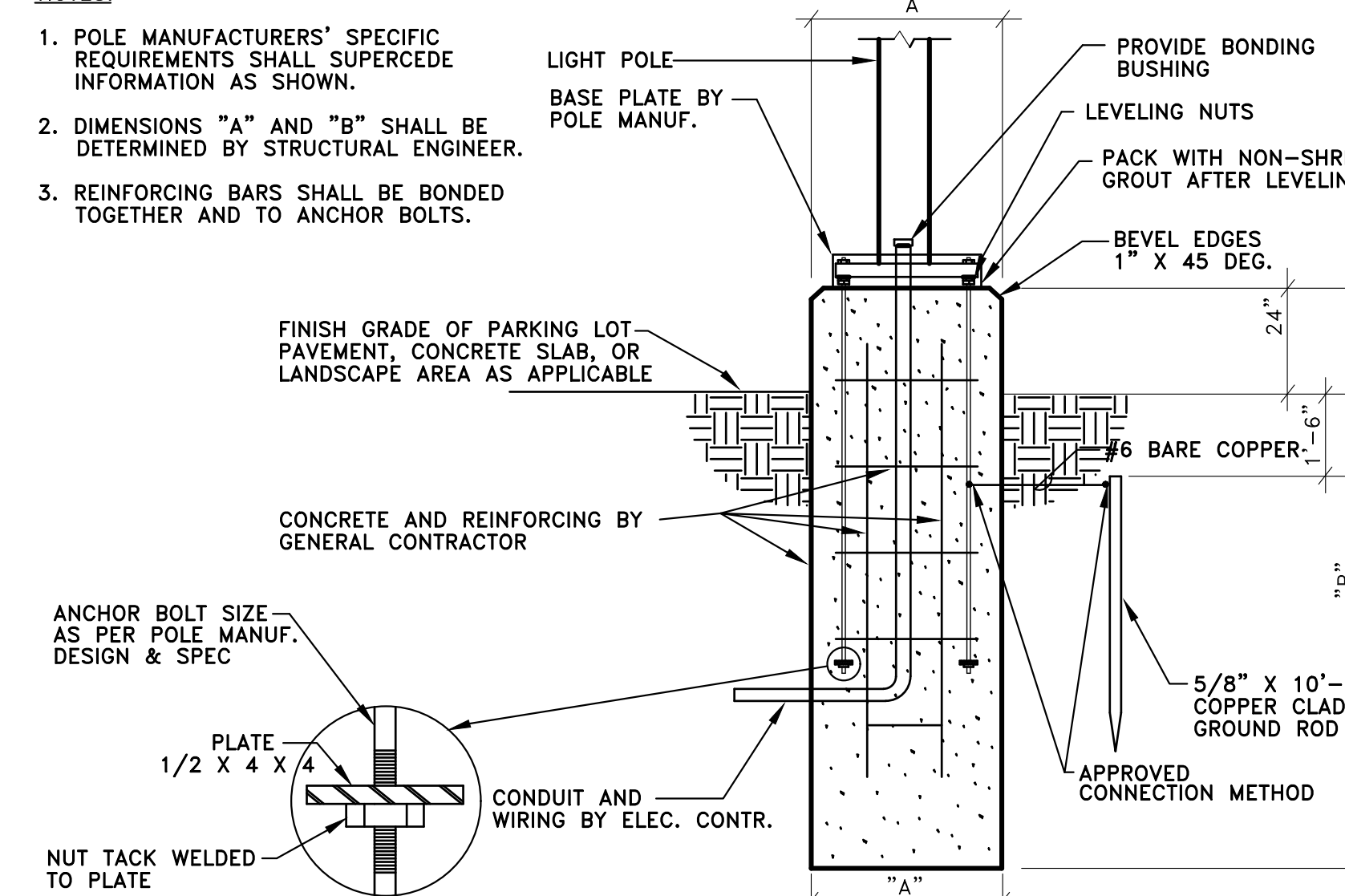


9 TYPICAL DRY-TYPE TRANSFORMER GROUNDING
E2.1 NO SCALE

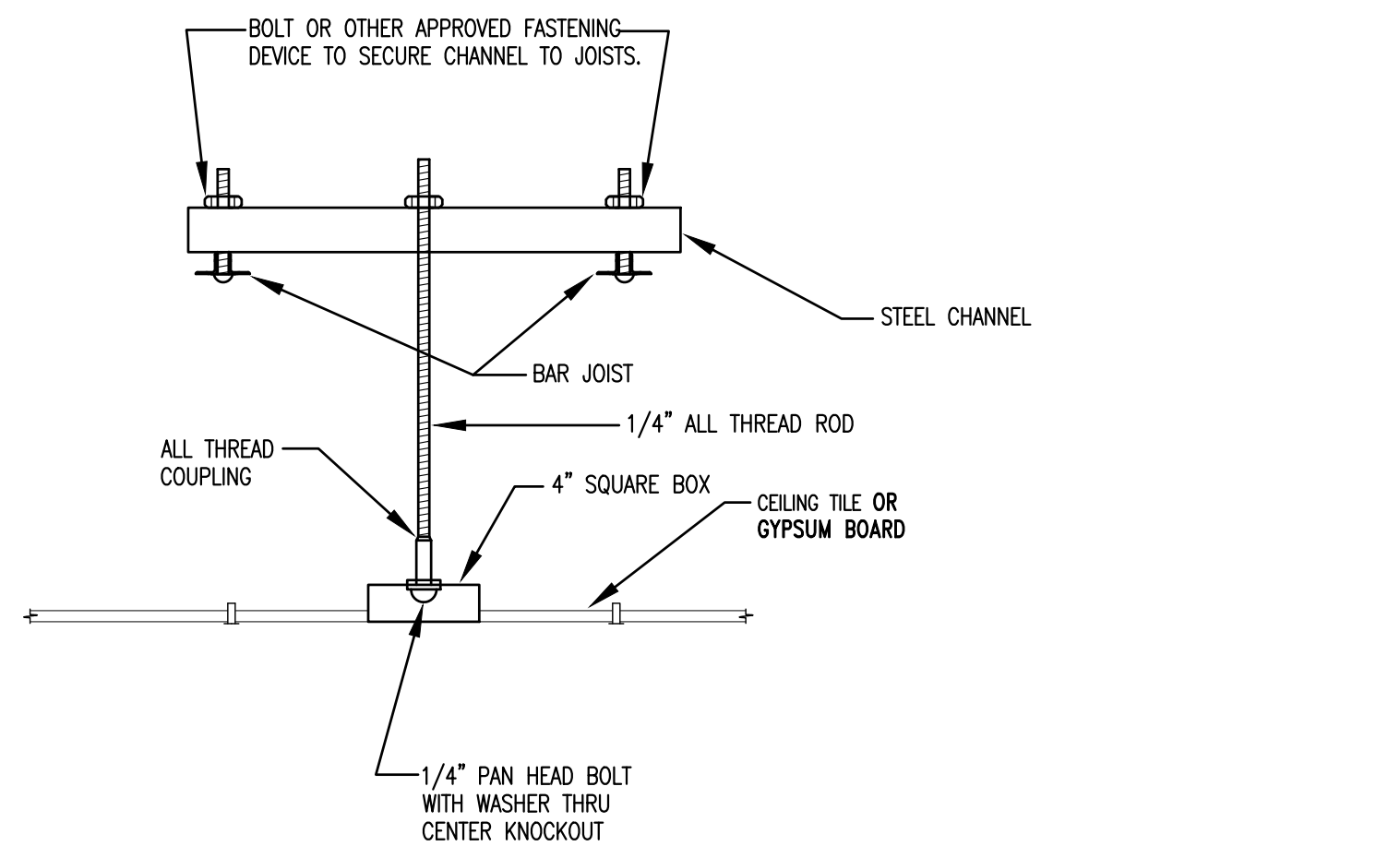


10 EXIT LIGHT MOUNTING AT CEILING
E2.1 NO SCALE

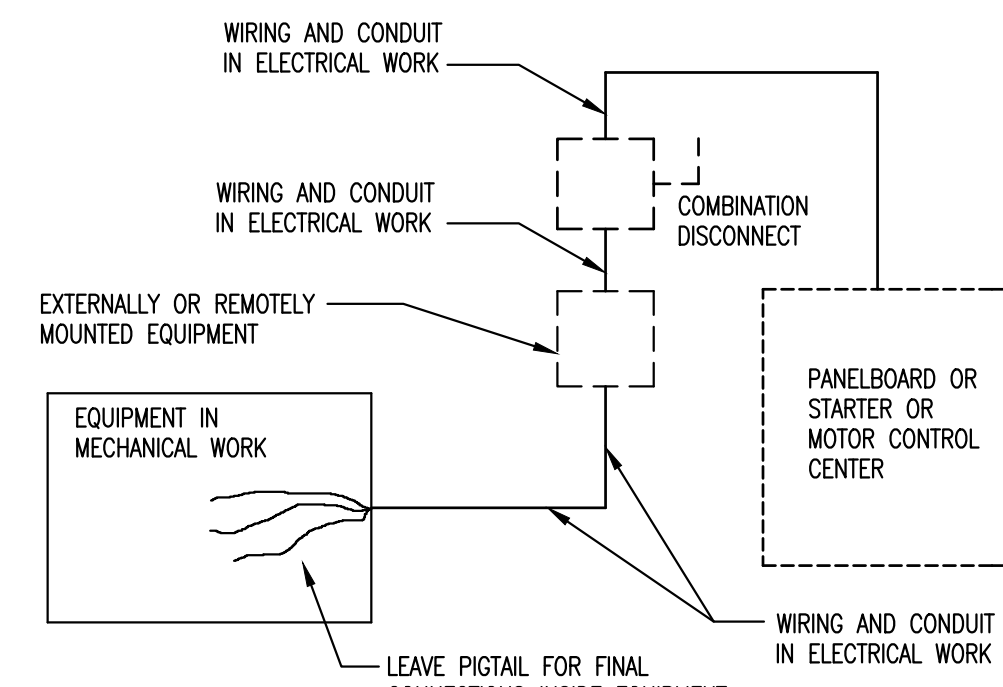
NOTE:
1. POLE MANUFACTURERS' SPECIFIC REQUIREMENTS SHALL SUPERCEDE INFORMATION AS SHOWN.
2. DIMENSIONS "A" AND "B" SHALL BE DETERMINED BY STRUCTURAL ENGINEER.
3. REINFORCING BARS SHALL BE BONDED TOGETHER AND TO ANCHOR BOLTS.



11 TYPICAL LIGHT POLE BASE
E2.1 NO SCALE



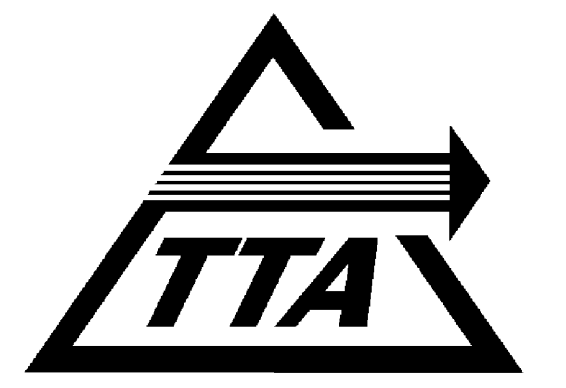
12 CEILING BOX SUPPORT DETAIL
E2.1 NO SCALE



13 ELECTRICAL CONNECTIONS TO HVAC EQUIPMENT
E2.1 NO SCALE

ITEM	FURNISHED UNDER	SET IN PLACE OR MOUNTED UNDER	WIRED AND CONNECTED UNDER
EQUIPMENT MOTORS, RESISTANCE HEATERS	MC	MC	EC
MOTOR CONTROLLERS; MAGNETIC STARTERS, REDUCED VOLTAGE STARTERS AND OVERLOAD RELAYS	MC	MC	EC
DISCONNECT SWITCHES, FUSED OR UNFUSED, HP RATED SWITCHES, THERMAL OVERLOAD SWITCHES AND FUSES, MANUAL OPERATING SWITCHES, THERMAL OVERLOADS	EC(1)	EC(1)	EC
REDUCED VOLTAGE CONTROLS	MC	MC	MC
LINE VOLTAGE CONTROLS (2)	MC	MC	MC
DUCTMOUNTED FIRE & SMOKE DETECTORS (FOR HVAC EQUIPMENT)	MC/EC(5)	MC	MC(4)/EC(3)

1. UNLESS SCHEDULED/SPECIFIED TO BE PROVIDED AS A FACTORY MOUNTED ITEM.
2. THOSE CONTROLS WHICH CARRY FULL LOAD METER CURRENTS OR OPERATE AT NOMINAL 120 V. TO GROUND OR LESS.
3. WIRING THROUGH PRIMARY CONTACTS OF THE DETECTOR TO ALARM SYSTEM BY EC. ALARM SYSTEM FURNISHED BY EC.
4. MC TO WIRE AUXILIARY CONTACTS OF DETECTOR THROUGH ASSOCIATED UNIT'S CONTROL CIRCUIT IN ORDER TO DE-ENERGIZE THE OPERATION OF THE FAN TO PREVENT THE SPREAD OF SMOKE/FIRE UPON ACTIVATION.
5. FURNISHED BY EC IF THE FIRE ALARM SYSTEM IS EXISTING OR IS TO BE PROVIDED BY THE EC. IF NO FIRE ALARM SYSTEM EXISTS OR IS TO BE PROVIDED, THEN THE MC IS TO FURNISH IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 90A, CURRENT EDITION.



ADDITIONS TO MAINTENANCE FACILITY

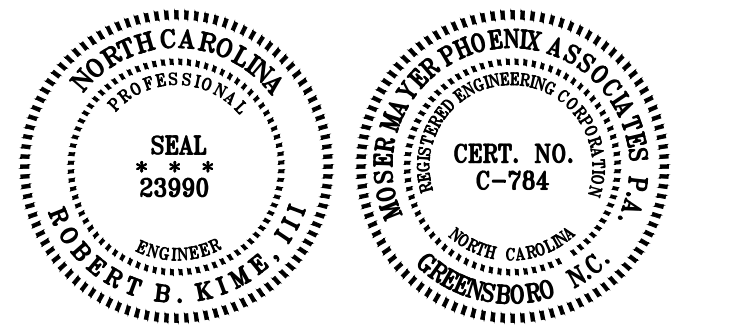
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REVISIONS

NO.	DATE	DESCRIPTION
01-26-08		RECORD DRAWINGS

DATE: APRIL 28, 2006
PROJECT NUMBER: 05111.00 / 05156.00
SCALE: NO SCALE
DRAWN BY: RBK

ELECTRICAL POWER DETAILS

E2.1