Perquimans County Intermediate School

PERQUIMANS COUNTY PUBLIC SCHOOLS

Winfall Boulevard
Perquimans County / North Carolina

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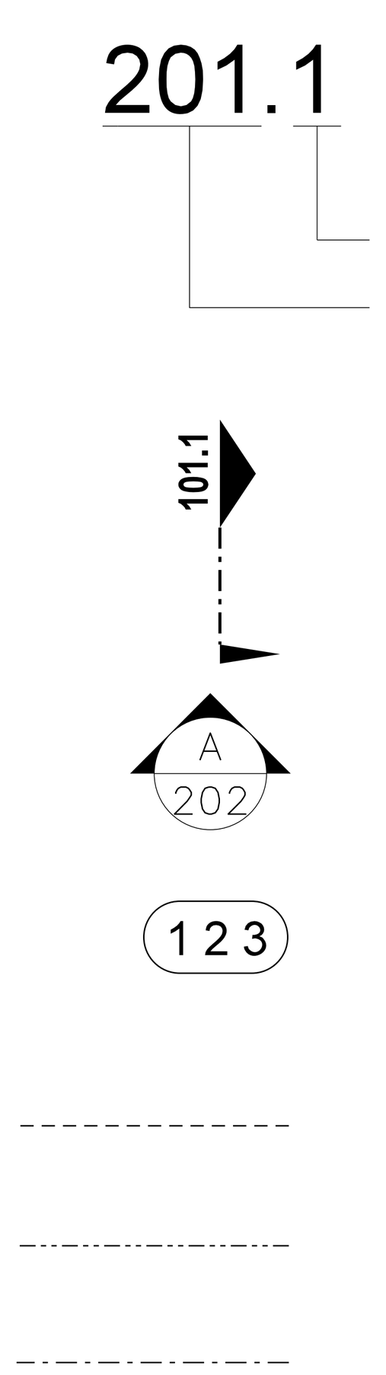
Set Two of Three: ARCHITECTURAL - FOOD SERVICE - STRUCTURAL

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	INV	INVERT
L	ANGLE	JT	JOINT
AB	ANCHOR BOLT	LAV	LAVATORY
@	AT	MAS	MASONRY
B/B	BACK TO BACK (CURB)	MAX	MAXIMUM
BRG	BEARING	MB	MARKER BOARD
BD	BOARD	MET	METAL
BC	BRICK COURSE	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MT	METAL THRESHOLD
CI	CAST IRON	MIN	MINIMUM
CPT	CARPET	MISC	MISCELLANEOUS
CB	CATCH BASIN	NOM	NOMINAL
CLG	CEILING	N	NORTH
CT	CEILING TILE	NIC	NOT IN CONTRACT
CB	CHALKBOARD	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	OC	ON CENTER
CONC	CONCRETE	OPG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CG	CORNER GUARD	PC	PLUMBING CONTRACTOR
CMP	CORRUGATED METAL PIPE	PLAS	PLASTER
CONT.	CONTINUOUS	PL	PLATE
C & R	CURTAIN & ROD	PT	PRESSURE TREATED
C & T	CURTAIN & TRACK	R	RADIUS
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION	RENIF	REINFORCED
DS	DOWNSPOUT	RCP	REINFORCE CONCRETE PIPE
DWR	DRAWER	REQ'D	REQUIRED
EA	EACH	RFS	RUBBER FASTENING STRIP
EC	ELECTRICAL CONTRACTOR	RI	RIGID INSULATION
EIFS	EXTERIOR INSULATION & FIN SYSTEM	R/W	RIGHT OF WAY
ELECT	ELECTRICAL	RD	ROOF DRAIN
EWC	ELECTRIC WATER COOLER	RDL	ROOF DRAIN LEADER
ELEV	ELEVATION	RGH	ROUGH
EQ	EQAUL	SCHED	SCHEDULED
ETR	EXISTING TO REMAIN	SH	SHELF
EXIST	EXISTING	SHTG	SHEATHING
EXP	EXPOSED, EXPANSION	SIM	SIMILAR
EJ	EXPANSION JOINT	SPEC	SPECIFIED
F/F	FACE TO FACE (CURB)	SPECS	SPECIFICATIONS
FIN	FINISH	STD	STANDARD
FE	FIRE EXTINGUISHER	SUSP	SUSPENDED
FEC	FIRE EXTINGUISHER CABINET	TB	TACKBOARD
FHC	FIRE HOSE CABINET	TYP	TYPICAL
FTG	FOOTING	TJC	TYPICAL CONTROL JOINT
FD	FLOOR DRAIN	UON	UNLESS OTHERWISE NOTED
FL	FLOOR	UR	URINAL
FSR	FLEXIBLE SHEET ROOFING	VB	VAPOR BARRIER
GB	GYPSUM WALLBOARD	VERT	VERTICAL
GC	GENERAL CONTRACTOR	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL	WC	WATER CLOSET
HOR	HORIZONTAL	WWF	WELDED WIRE FABRIC
INSUL	INSULATION	W/	WITH

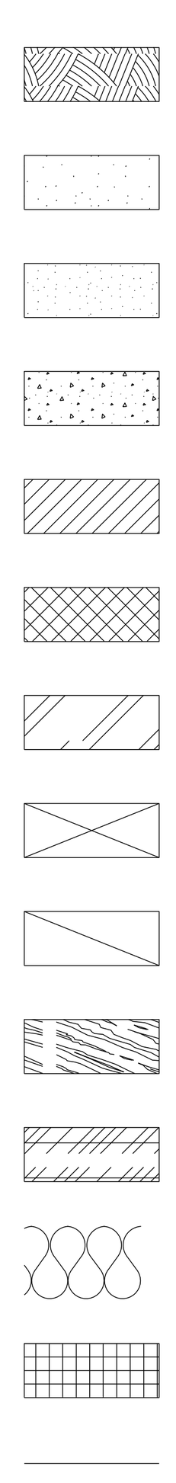
DRAWING SYMBOLS

DRAWING IDENTIFICATION MARKERS



DRAWING NUMBER
SHEET NUMBER
SECTION MARKER
ELEVATION (DRAWINGS)
DOOR MARKER/NUMBER
HIDDEN LINE OR ABSTRACT LINE
LINE ABOVE
CENTERLINE

MATERIAL SYMBOLS



EARTH
SAND
MORTAR OR GROUT
CONCRETE
BRICK
CONCRETE MASONRY UNIT
STEEL
ROUGH WOOD (CONTINUOUS)
ROUGH WOOD (INTERMITTENT)
FINISH WOOD
PLYWOOD
BATT OR BLOWN INSULATION
RIGID INSULATION
METAL STUD / GYPBOARD WALL

DRAWING INDEX

SET 1 OF 3

	COVER
T-1	INDEX / LEGEND / ABBREVIATIONS
BCS-101	BUILDING CODE SUMMARY - 100 BUILDING - ADMINISTRATION
BCS-201	BUILDING CODE SUMMARY - 200 BUILDING - ART / EC
BCS-301	BUILDING CODE SUMMARY - 300 BUILDING - MIDDLE SCHOOL
BCS-401	BUILDING CODE SUMMARY - 400 BUILDING - ELEMENTARY SCHOOL
BCS-501	BUILDING CODE SUMMARY - 500 BUILDING - GYMNASIUM
BCS-502	BUILDING CODE SUMMARY - 500 BUILDING - CAFETERIA / MULTIPURPOSE
BCS-701	BUILDING CODE SUMMARY - CONCESSIONS BUILDING
LS-001	LIFE SAFETY PLAN
FRA-001	FIRE RATED ASSEMBLIES
C-001	SITE PLAN
--------	EXISTING TOPOGRAPHIC SURVEY
C-101	SITE GEOMETRY PLAN - SOUTH
C-102	SITE GEOMETRY PLAN - NORTH
C-103	ENLARGED KITCHEN SERVICE AREA PLAN
C-200	INITIAL SITE EROSION & SEDIMENTATRION CONTROL PLAN
C-201	SITE GRADING & DRAINAGE PLAN - SOUTH
C-202	SITE GRADING & DRAINAGE PLAN - NORTH
C-301	DRAINAGE STRUCTURES
C-302	EROSION AND SEDIMENTATION CONTROL DETAILS
C-303	EROSION AND SEDIMENTATION CONTROL DETAILS
C-304	EROSION AND SEDIMENTATION CONTROL DETAILS
C-305	WET DETENTION POND #1 & DETAILS - NORTH
C-306	WET DETENTION POND #2 & DETAILS - SOUTH
C-307	SIGNAGE & MISCELLANEOUS DETAILS
C-308	CONCRETE DETAILS & MISC
C-309	CONTROL GATE & MISCELLANEOUS DETAILS
C-310	RAISED CONCRETE CROSSWALK & RETAINING WALL & HEADWALL DETAILS
C-311	CONCRETE ISLANDS & MISCELLANEOUS DETAILS
C-312	BASEBALL / SOFTBALL FIELD DETAILS
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C-314	BALLFIELD DETAILS
C-315	BALLFIELD IRRIGATION PLAN
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C-317	NCG01 SELF-INSPECTION NOTES
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C-601	SITE UTILITY PLAN
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A-001	OVERALL FLOOR PLAN
A-002	OVERALL PLATFORM FLOOR PLAN
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A-005	ROOF DETAILS
A-101	100 BUILDING FLOOR PLAN - ADMINISTRATION / MEDIA CENTER
A-102	100 BUILDING PLATFORM PLAN
A-103	100 BUILDING REFLECTED CEILING PLAN
A-104	100 BUILDING EXTERIOR ELEVATIONS
A-105	100 BUILDING ENLARGED TOILET PLAN
A-106	100 BUILDING INTERIOR ELEVATIONS - MEDIA CENTER
A-107	100 BUILDING INTERIOR ELEVATIONS - MAKERSPACE
A-108	100 BUILDING INTERIOR ELEVATIONS - ADMINISTRATION
A-109	100 BUILDING INTERIOR ELEVATIONS - VESTIBULE
A-201	200 BUILDING FLOOR PLAN - E.C. / ART
A-202	200 BUILDING PLATFORM PLAN
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A-207	200 BUILDING INTERIOR ELEVATIONS - ART
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A-302	300 BUILDING FLOOR PLAN - MIDDLE SCHOOL CLASSROOMS
A-303	300 BUILDING PLATFORM PLAN
A-304	300 BUILDING PLATFORM PLAN
A-305	300 BUILDING REFLECTED CEILING PLAN
A-306	300 BUILDING REFLECTED CEILING PLAN
A-307	300 BUILDING EXTERIOR ELEVATIONS
A-308	300 BUILDING EXTERIOR ELEVATIONS
A-309	300 BUILDING ENLARGED TOILET PLAN
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A-312	300 BUILDING INTERIOR ELEVATIONS - STEM / BIOTECH
A-313	300 BUILDING INTERIOR ELEVATIONS - COMPUTER SCIENCE
A-314	300 BUILDING INTERIOR ELEVATIONS - SCIENCE
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A-317	300 BUILDING SCREEN WALL DETAILS
A-401	400 BUILDING FLOOR PLAN - ELEMENTARY SCHOOL CLASSROOMS
A-402	400 BUILDING FLOOR PLAN - ELEMENTARY SCHOOL CLASSROOMS
A-403	400 BUILDING PLATFORM PLAN
A-404	400 BUILDING PLATFORM PLAN
A-405	400 BUILDING REFLECTED CEILING PLAN
A-406	400 BUILDING REFLECTED CEILING PLAN
A-407	400 BUILDING EXTERIOR ELEVATIONS
A-408	400 BUILDING EXTERIOR ELEVATIONS
A-409	400 BUILDING ENLARGED TOILET PLAN
A-410	400 BUILDING INTERIOR ELEVATIONS - CLASSROOM
A-411	400 BUILDING INTERIOR ELEVATIONS - RESOURCE
A-412	400 BUILDING INTERIOR ELEVATIONS - PLC / PLANNING / COLLABORATION
A-413	400 BUILDING SCREEN WALL DETAILS
A-501	500 BUILDING FLOOR PLAN - GYMNASIUM / LOCKERS
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A-505	500 BUILDING REFLECTED CEILING PLAN
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A-508	500 BUILDING EXTERIOR ELEVATIONS
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A-518	500 BUILDING INTERIOR ELEVATIONS - MULTIPURPOSE
A-519	500 BUILDING INTERIOR ELEVATIONS - CAFETORIUM
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A-701	CONCESSIONS BUILDING FLOOR PLAN
A-702	MAINTENANCE BUILDING FLOOR PLAN
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A-804	WINDOW DETAILS
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SET 2 OF 3

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A-905	WALL SECTIONS
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A-907	WALL SECTIONS
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A-915	WALL SECTIONS
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A-923	WALL SECTIONS
A-924	WALL SECTIONS
A-925	WALL SECTIONS
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A-1002	CASEWORK DETAILS
A-1003	CASEWORK DETAILS
A-1004	CASEWORK DETAILS
A-1005	CASEWORK DETAILS
A-1006	CASEWORK DETAILS
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S-101	FOUNDATION PLAN - 100 BUILDING
S-102	FOUNDATION PLAN - 200 BUILDING
S-103	FOUNDATION PLAN - 300 BUILDING
S-104	FOUNDATION PLAN - 300 BUILDING
S-105	FOUNDATION PLAN - 400 BUILDING
S-106	FOUNDATION PLAN - 400 BUILDING
S-107	FOUNDATION PLAN - 500 BUILDING
S-108	FOUNDATION PLAN - 500 BUILDING
S-201	PLATFORM FRAMING PLAN - 100 BUILDING
S-202	PLATFORM FRAMING PLAN - 200 BUILDING
S-203	PLATFORM FRAMING PLAN - 300 BUILDING
S-204	PLATFORM FRAMING PLAN - 300 BUILDING
S-205	PLATFORM FRAMING PLAN - 400 BUILDING
S-206	PLATFORM FRAMING PLAN - 400 BUILDING
S-207	PLATFORM FRAMING PLAN - 500 BUILDING
S-208	PLATFORM FRAMING PLAN - 500 BUILDING
S-301	ROOF FRAMING PLAN - 100 BUILDING
S-302	ROOF FRAMING PLAN - 200 BUILDING
S-303	ROOF FRAMING PLAN - 300 BUILDING
S-304	ROOF FRAMING PLAN - 300 BUILDING
S-305	ROOF FRAMING PLAN - 400 BUILDING
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S-308	ROOF FRAMING PLAN - 500 BUILDING
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S-1102	STRUCTURAL DETAILS & SCHEDULES
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SET 3 OF 3

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FS-311	310 WING FIRE SUPRESSION PLAN
FS-312	310 WING PLATFORM FIRE SUPRESSION PLAN
FS-401	400 WING FIRE SUPRESSION PLAN
FS-411	410 WING FIRE SUPRESSION PLAN
FS-412	410 WING PLATFORM FIRE SUPRESSION PLAN
FS-501	500 WING FIRE SUPRESSION PLAN
FS-502	500 WING PLATFORM FIRE SUPRESSION PLAN
FS-511	510 WING FIRE SUPRESSION PLAN
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P-102	100 WING POTABLE WATER PLAN
P-103	100 WING DWV RISER DIAGRAM
P-201	200 WING SEWER PLAN
P-202	200 WING POTABLE WATER PLAN
P-203	200 WING PLATFORM WATER PLAN
P-204	200 WING DWV RISER DIAGRAM
P-301	300 WING SEWER PLAN
P-302	300 WING POTABLE WATER PLAN
P-303	300 WING PLATFORM WATER PLAN
P-304	300 WING & 310 WING DWV RISER DIAGRAM
P-311	310 WING SEWER PLAN
P-312	310 WING POTABLE WATER PLAN
P-313	310 WING PLATFORM WATER PLAN
P-401	400 WING SEWER PLAN
P-402	400 WING POTABLE WATER PLAN
P-403	400 WING PLATFORM WATER PLAN
P-404	400 WING & 410 WING DWV RISER DIAGRAM
P-411	410 WING SEWER PLAN
P-412	410 WING POTABLE WATER PLAN
P-413	410 WING PLATFORM WATER PLAN
P-501	500 WING SEWER PLAN
P-502	500 WING POTABLE WATER PLAN
P-503	500 WING PLATFORM WATER PLAN
P-504	500 WING DWV RISER DIAGRAM
P-511	510 WING SEWER PLAN
P-512	510 WING POTABLE WATER PLAN
P-513	510 WING PLATFORM WATER PLAN
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M-002	MECHANICAL SCHEDULES
M-003	MECHANICAL SCHEDULES
M-004	HYDRONIC HEATING SYSTEM FLOW & CONTROL DIAGRAM
M-005	CHILLED WATER SYSTEM FLOW AND CONTROL DIAGRAM
M-006	MECHANICAL DETAILS
M-007	MECHANICAL DETAILS
M-008	MECHANICAL DETAILS
M-009	MECHANICAL DETAILS
M-010	KITCHEN EXHAUST HOOD DETAILS / SCHEDULES
M-011	KITCHEN EXHAUST HOOD DETAILS
M-012	KITCHEN EXHAUST HOOD DETAILS
M-013	KITCHEN EXHAUST HOOD DETAILS
M-101	100 WING MECHANICAL PLAN
M-102	100 WING HVAC PLATFORM PLAN
M-103	100 WING PLATFORM PIPING PLAN
M-201	200 WING MECHANICAL PLAN
M-202	200 WING HVAC PLATFORM PLAN
M-203	200 WING PLATFORM PIPING PLAN
M-301	300 WING MECHANICAL PLAN
M-302	300 WING HVAC PLATFORM PLAN
M-303	300 WING PLATFORM PIPING PLAN
M-311	300 WING MECHANICAL PLAN
M-312	300 WING HVAC PLATFORM PLAN
M-313	300 WING PLATFORM PIPING PLAN
M-401	400 WING MECHANICAL PLAN
M-402	400 WING HVAC PLATFORM PLAN
M-403	400 WING PLATFORM PIPING PLAN
M-411	400 WING MECHANICAL PLAN
M-412	400 WING HVAC PLATFORM PLAN
M-413	400 WING PLATFORM PIPING PLAN
M-501	500 WING MECHANICAL PLAN
M-502	500 WING HVAC PLATFORM PLAN
M-503	500 WING PLATFORM PIPING PLAN
M-511	500 WING MECHANICAL PLAN
M-512	500 WING HVAC PLATFORM PLAN
M-513	500 WING PLATFORM PIPING PLAN
M-701	CONCESSION MECHANICAL PLAN
M-702	MAINTENANCE MECHANICAL PLAN
E-001	ELECTRICAL NOTES & SYMBOL LEGEND
E-002	ELECTRICAL DETAILS & RISER DIAGRAM
E-003	ELECTRICAL DIAGRAMS, LIGHTING CONTACTORS, LIGHT FIXTURE SCHEDULE
E-004	ELECTRICAL LEGEND, DETAILS, CONTACTOR
E-005	100 & 200 WING SECURITY PLAN
E-006	300 WING SECURITY PLAN
E-007	400 WING SECURITY PLAN
E-008	500 WING SECURITY PLAN
E-009	PANEL SCHEDULES (1P1, 1P2, 1P3, 1M, T-1)
E-010	PANEL SCHEDULES (2P1, 2P2, 2M, T-2)
E-011	PANEL SCHEDULES (3P1, 3P2, 3P3, 3P4, 3P5, 3M1, 3M2, T-3A, T-3B)
E-012	PANEL SCHEDULES (4P1, 4P2, 4P3, 4P4, 4M1, 4M2, T-4A, T-4B)
E-013	PANEL SCHEDULES (5P1, 5P2, 5P3, 5PB, 5M1, 5M2, T-5A, T-5B)
E-014	PANEL SCHEDULES (MDP1, MDP2, BR, KA, KB, KC, KD)
E-101	100 WING POWER PLAN
E-102	100 WING LIGHTING PLAN
E-103	100 WING PLATFORM POWER / LIGHTING PLAN
E-201	200 WING POWER PLAN
E-202	200 WING LIGHTING PLAN
E-203	200 WING PLATFORM POWER / LIGHTING PLAN
E-301	300 WING POWER PLAN
E-302	300 WING LIGHTING PLAN
E-303	300 WING PLATFORM POWER / LIGHTING PLAN
E-311	300 WING POWER PLAN
E-312	300 WING LIGHTING PLAN
E-313	300 WING PLATFORM POWER PLAN
E-314	300 WING PLATFORM LIGHTING PLAN
E-401	400 WING POWER PLAN
E-402	400 WING LIGHTING PLAN
E-403	400 WING PLATFORM POWER / LIGHTING PLAN
E-411	400 WING POWER PLAN
E-412	400 WING LIGHTING PLAN
E-413	400 WING PLATFORM POWER PLAN
E-414	400 WING PLATFORM LIGHTING PLAN
E-501	500 WING POWER PLAN
E-502	500 WING LIGHTING PLAN
E-503	500 WING PLATFORM POWER PLAN
E-504	500 WING PLATFORM LIGHTING PLAN
E-511	510 WING POWER PLAN
E-512	510 WING LIGHTING PLAN
E-513	500 WING PLATFORM POWER PLAN
E-514	500 WING PLATFORM LIGHTING PLAN
E-701	CONCESSION LIGHTING & POWER
E-702	MAINTENANCE LIGHTING & POWER
FA-001	FIRE ALARM RISER, MOUNTING DETAIL, MOUNTING LEGEND, MATRIX, WALL LEGEND
FA-002	INTERIOR ELEVATIONS
FA-003	INTERIOR ELEVATIONS
FA-101	100 WING FIRE ALARM PLAN
FA-201	200 WING FIRE ALARM PLAN
FA-301	300 WING FIRE ALARM PLAN
FA-311	310 WING FIRE ALARM PLAN
FA-312	310 WING PLATFORM FIRE ALARM PLAN
FA-401	400 WING FIRE ALARM PLAN
FA-411	410 WING FIRE ALARM PLAN
FA-412	410 WING PLATFORM FIRE ALARM PLAN
FA-501	500 WING FIRE ALARM PLAN
FA-502	500 WING PLATFORM FIRE ALARM PLAN
FA-511	510 WING FIRE ALARM PLAN
FA-512	510 WING PLATFORM FIRE ALARM PLAN
IT-001	IT DETAILS, KEY, RISER
IT-002	FIREWALL NOTES, CAR STAGING PEDESTAL DETAIL
IT-101	100 WING IT PLAN
IT-201	200 WING IT PLAN
IT-301	300 WING IT PLAN
IT-311	310 WING IT PLAN
IT-401	400 WING IT PLAN
IT-411	410 WING IT PLAN
IT-501	500 WING IT PLAN
IT-511	510 WING IT PLAN

No. Date: Revision

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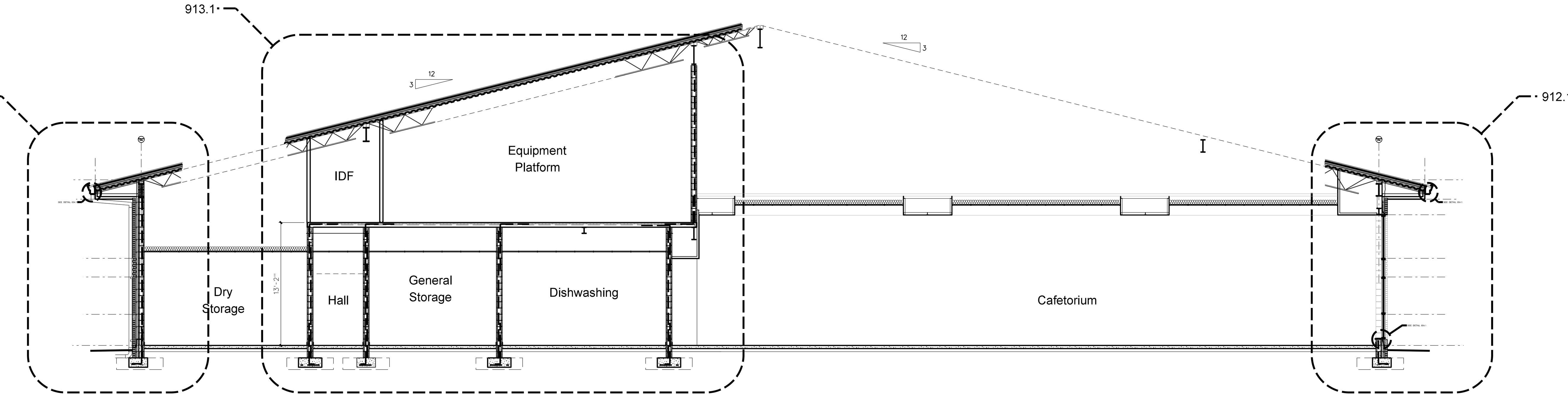
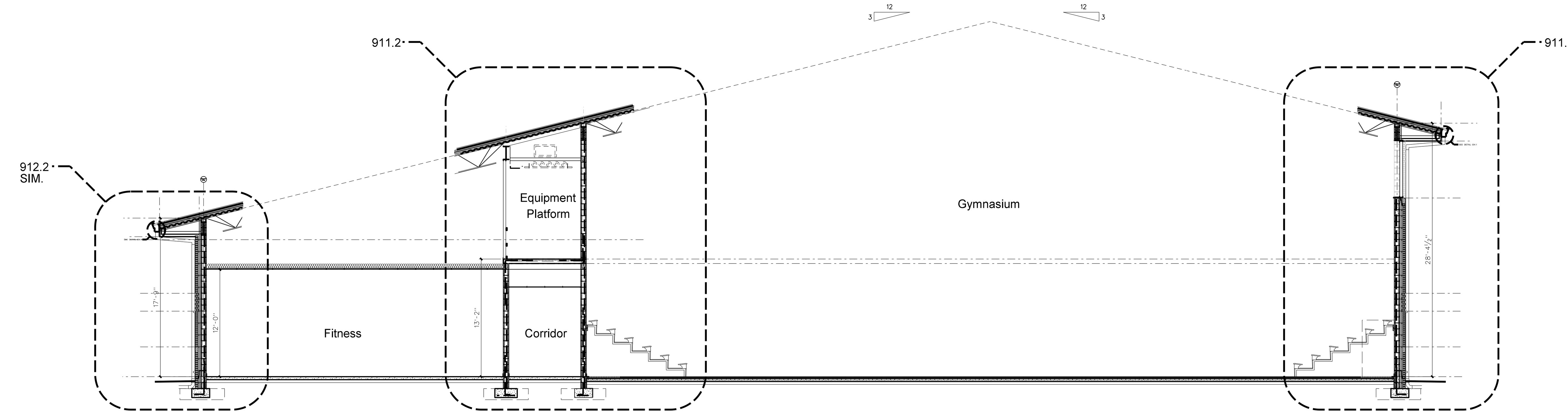
Perquimans County Intermediate School
PERQUIMANS COUNTY SCHOOLS
Winfall Boulevard / Winfall / North Carolina / 27944

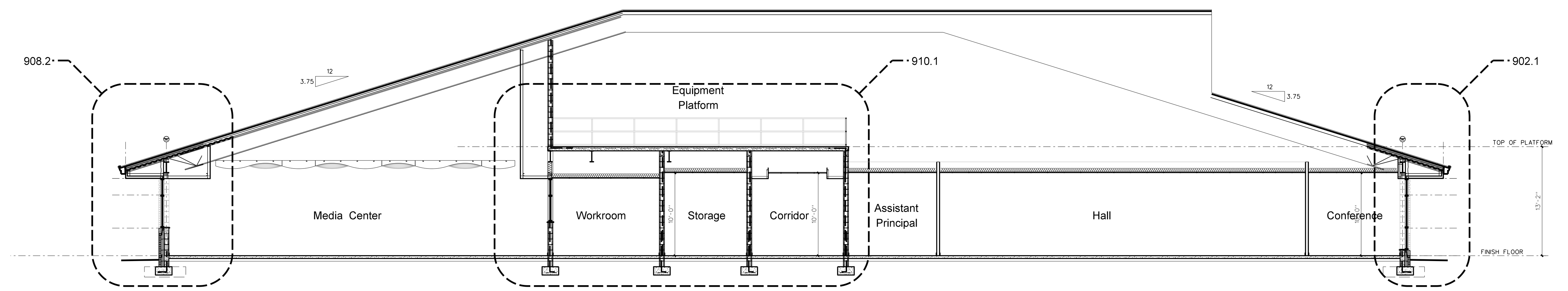
Project No. 22303
Date: 10 August 2024
Drawing no. T 1



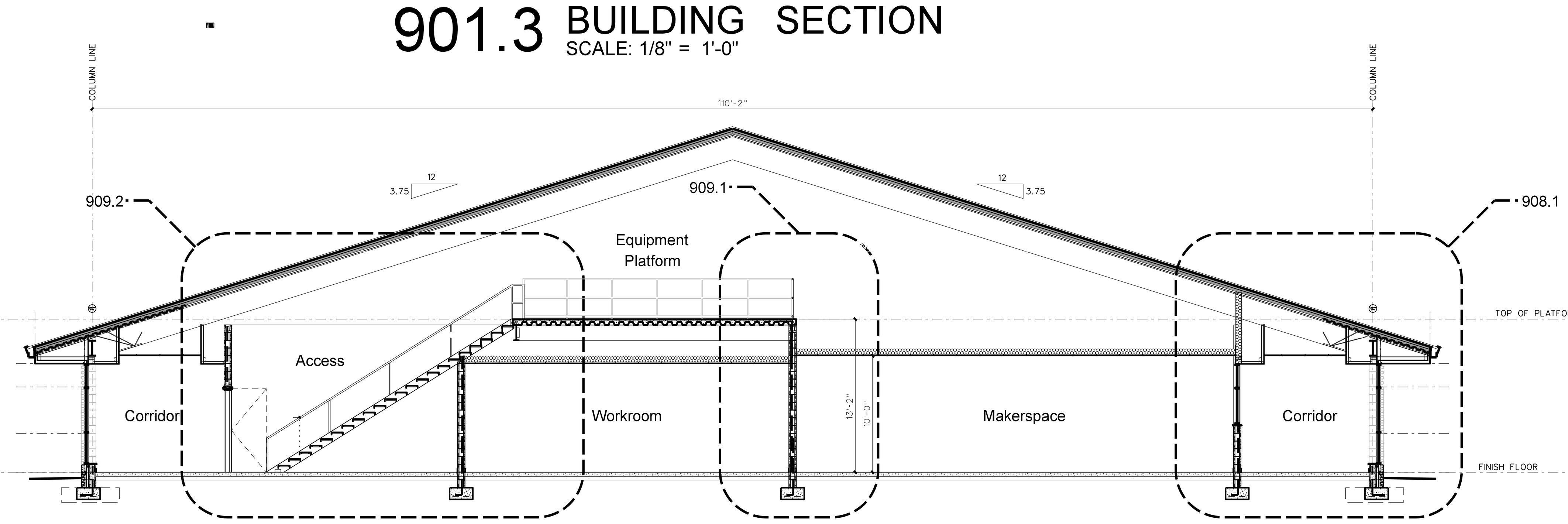
901.5 BUILDING SECTION
SCALE: 1/8" = 1'-0"



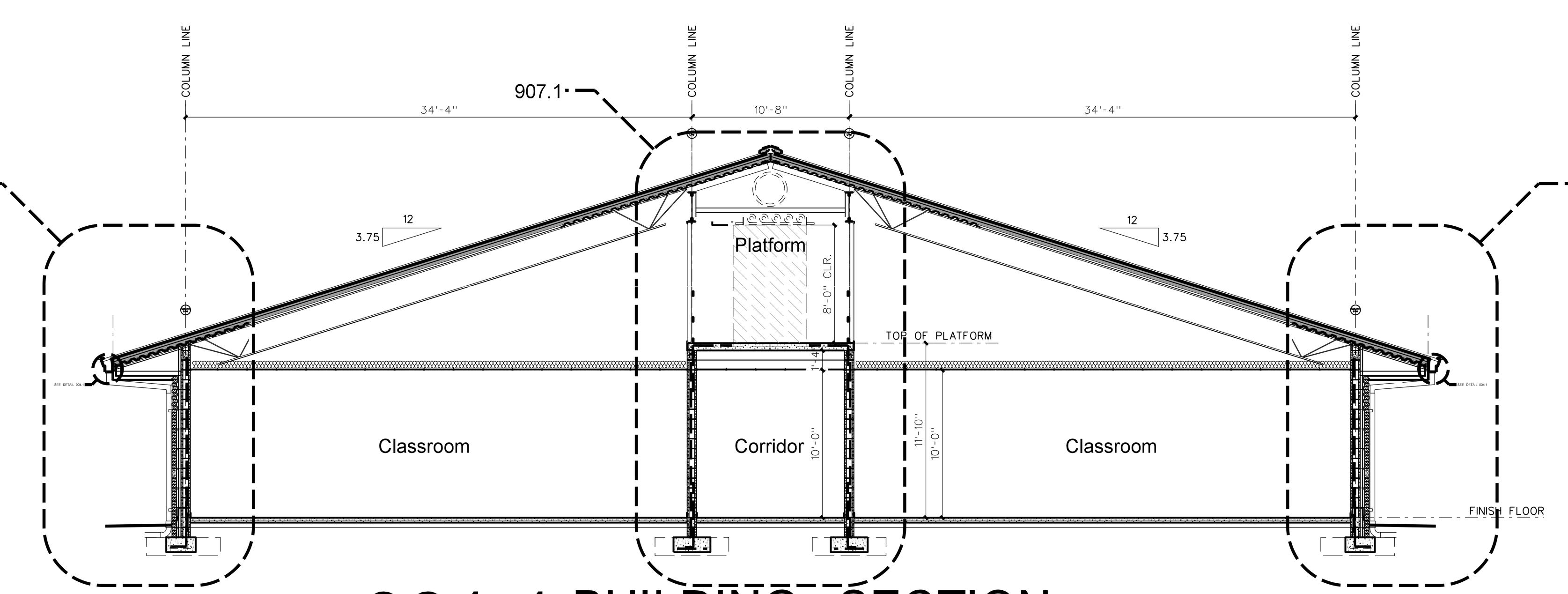
901.4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



901.3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



901.2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



901.1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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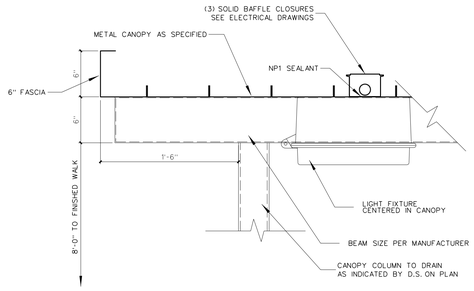
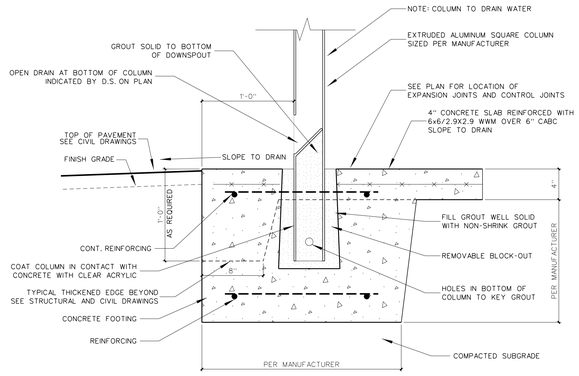


902.4 ALUMINUM CANOPY DETAIL
SCALE: 1 1/2" = 1'-0"



902.3 CANOPY FOOTING DETAIL
SCALE: 1 1/2" = 1'-0"

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

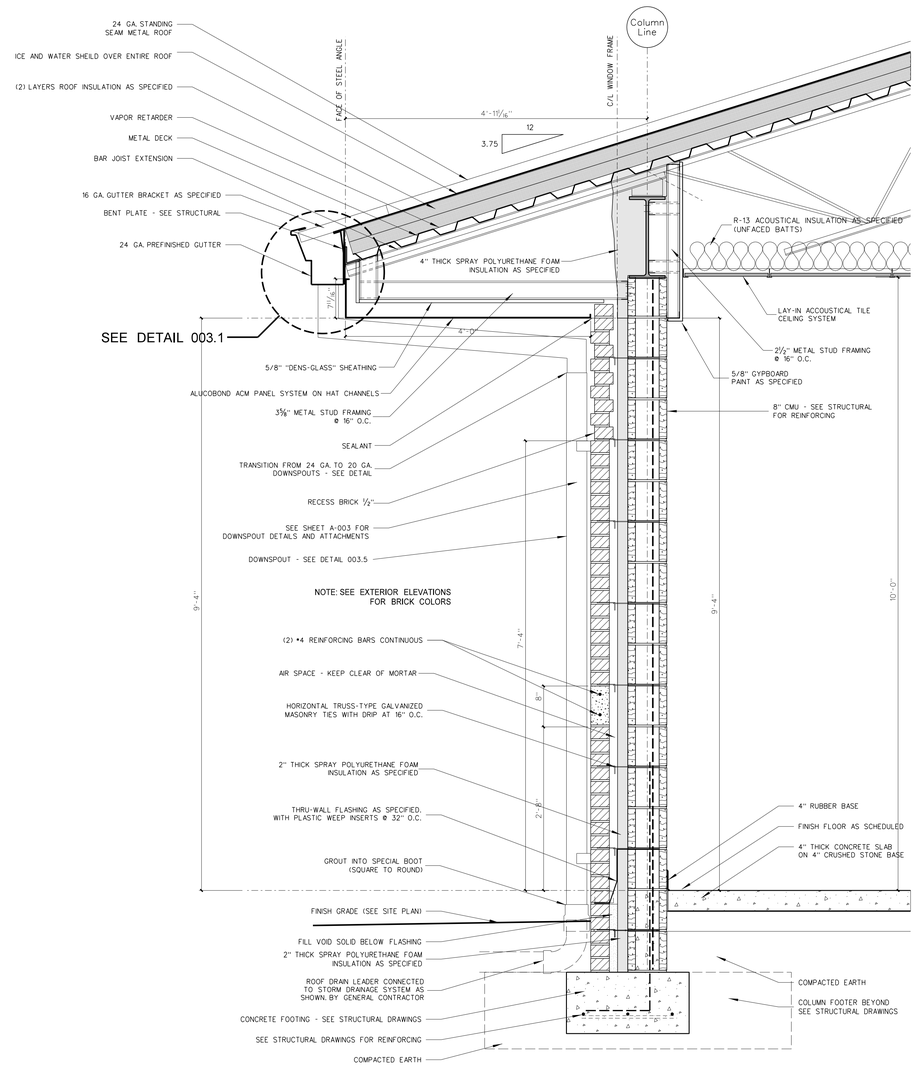
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

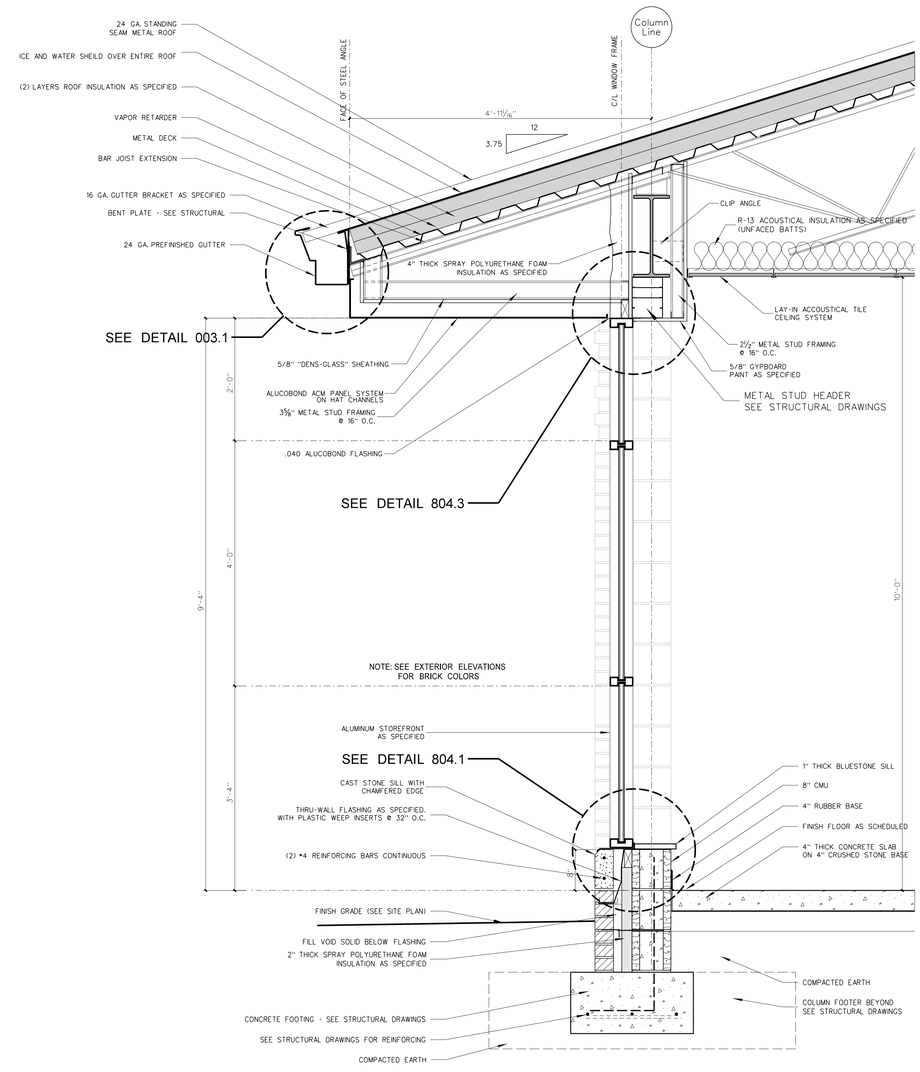
(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSULATION JOINTS, BOTH LAYER, LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



902.2 WALL SECTION
SCALE: 1" = 1'-0"



902.1 WALL SECTION @ STOREFRONT WINDOW
SCALE: 1" = 1'-0"

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JAMES GRAY HITE — REGISTERED ARCHITECT — GREENVILLE, NC

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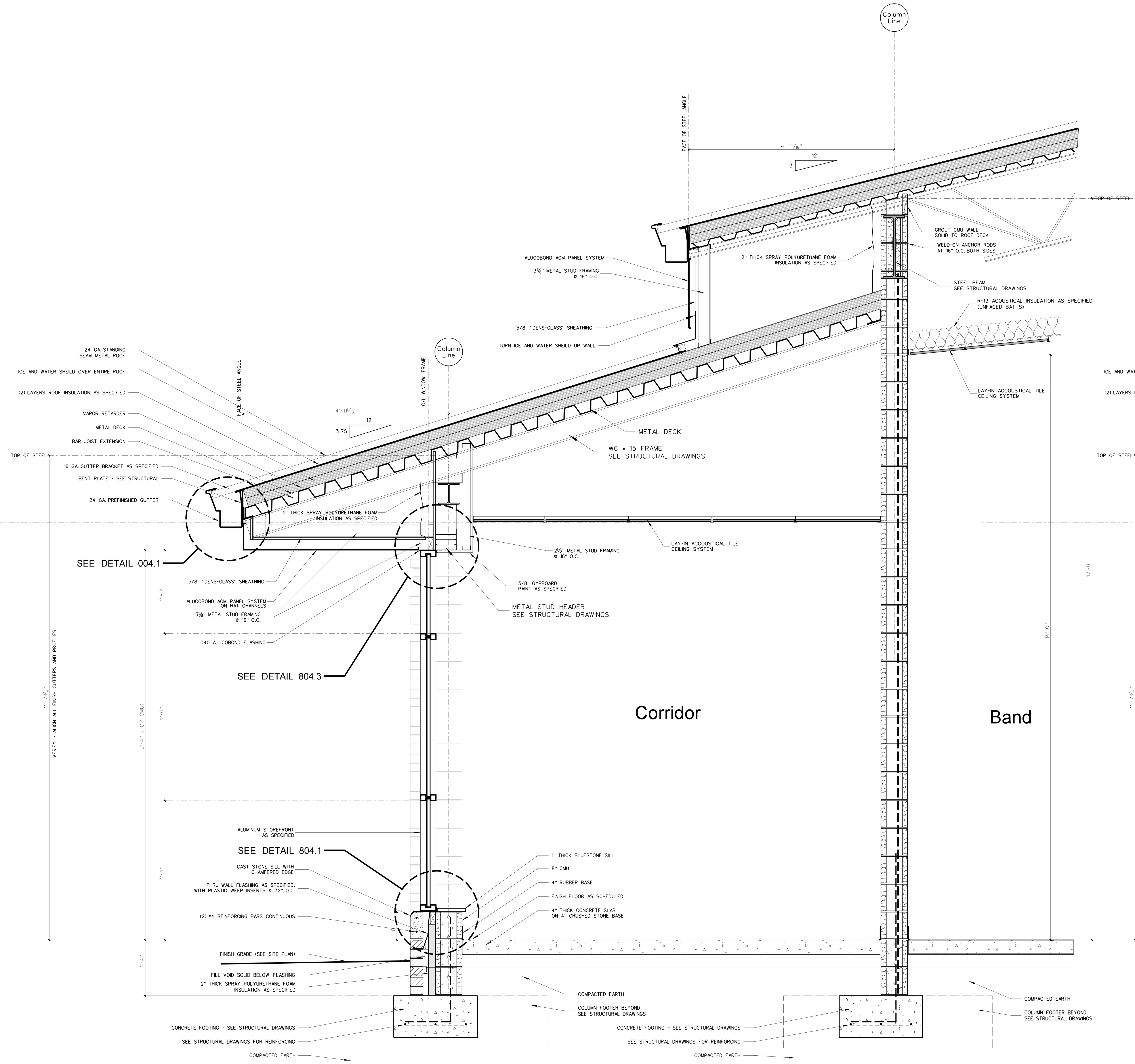
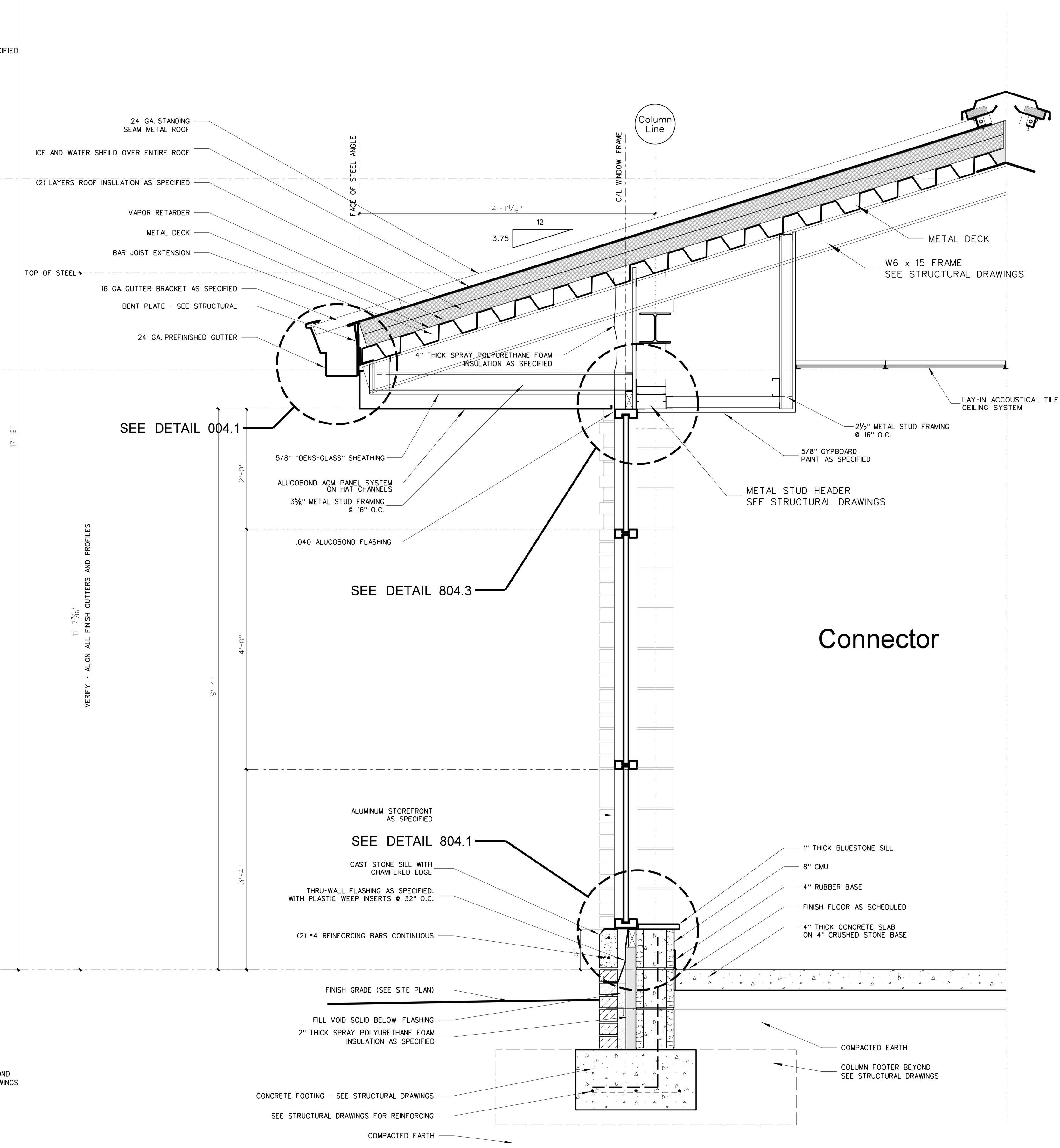


903.2 SECTION AT LOW HIGH ROOF
SCALE: 3/4" = 1'-0"



903.1 SECTION AT CONNECTOR
SCALE: 3/4" = 1'-0"

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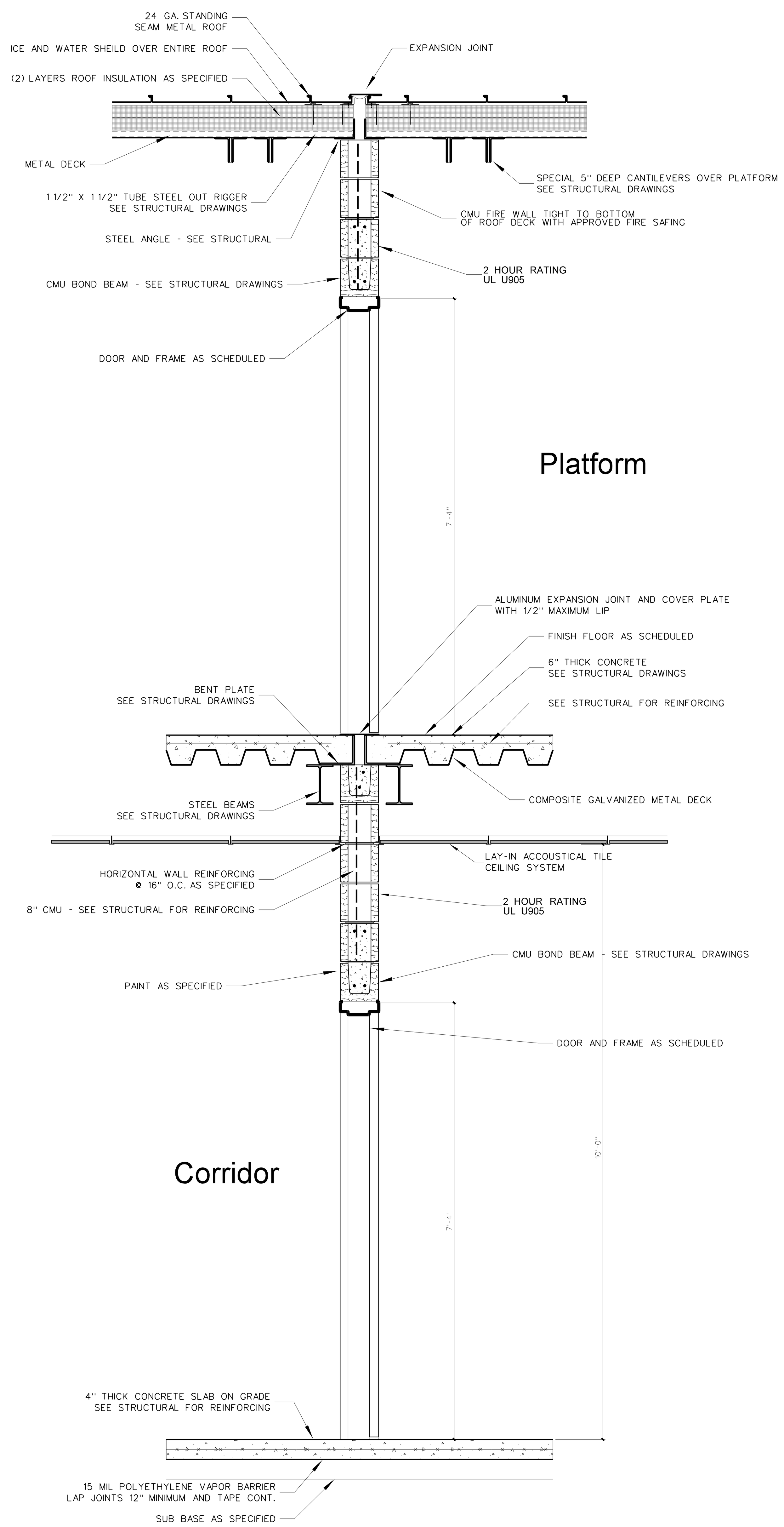
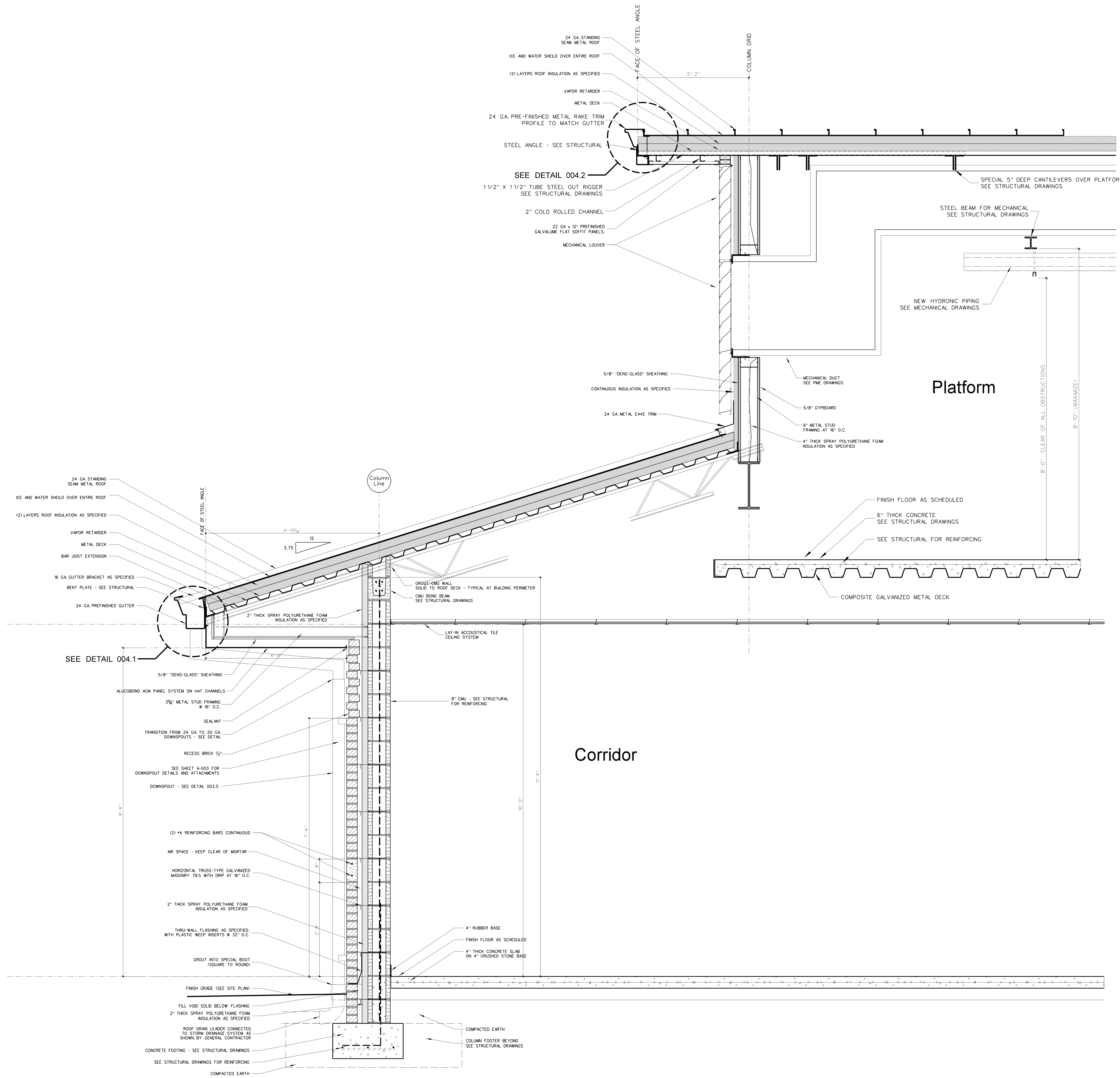


904.2 WALL SECTION AT FIRE WALL
SCALE: 3/4" = 1'-0"



904.1 RAKE WALL SECTION
SCALE: 3/4" = 1'-0"

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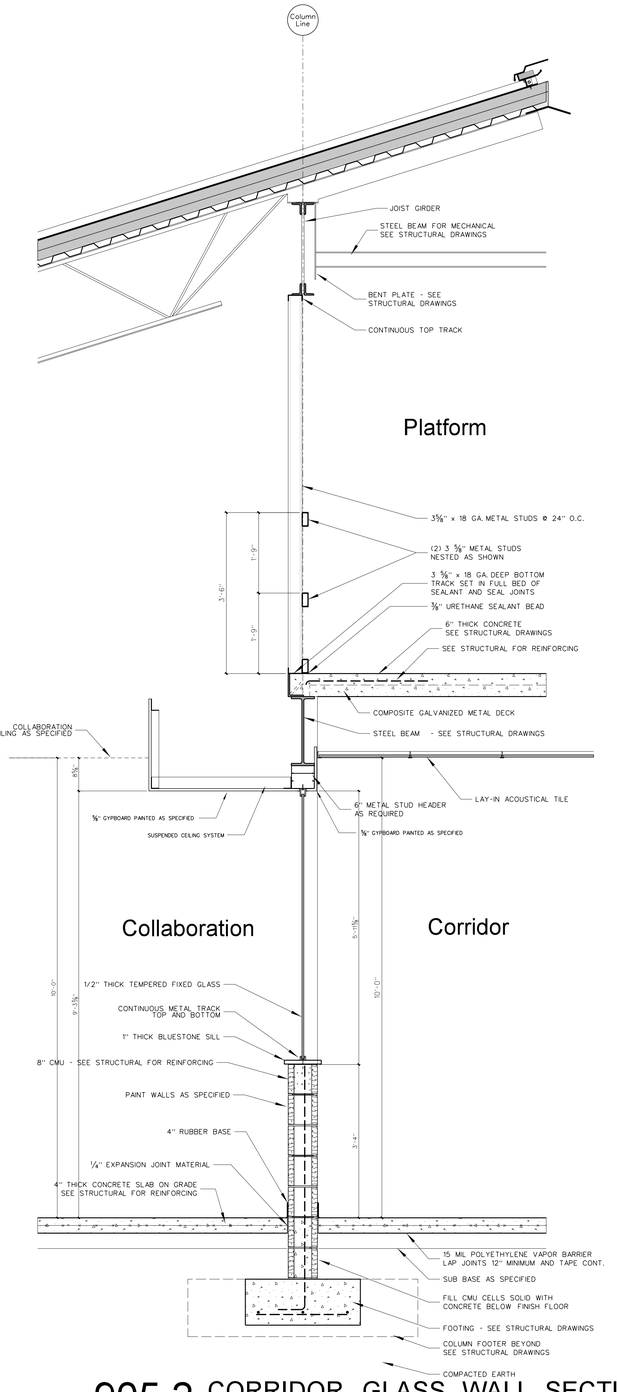
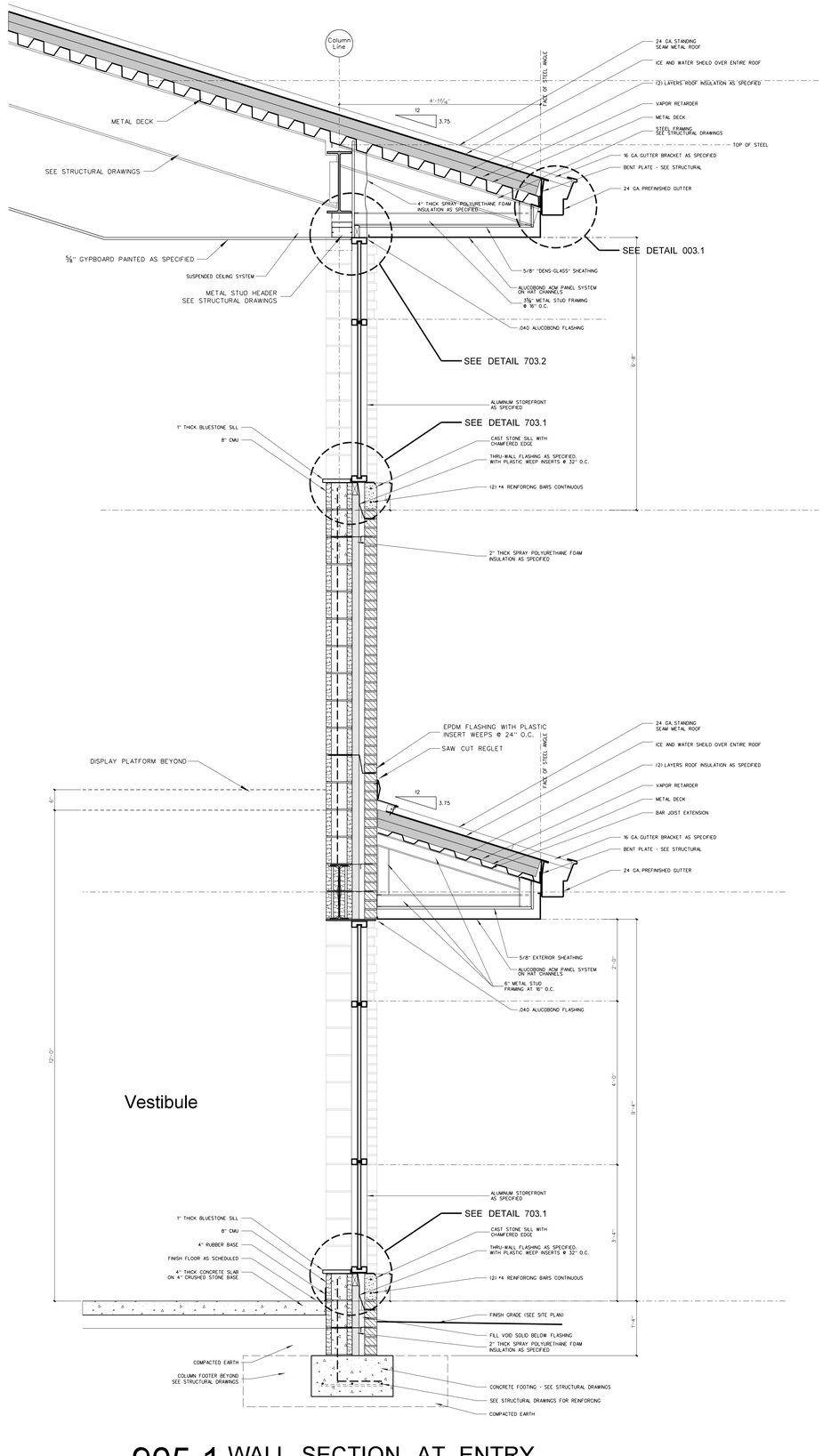


905.2 CORRIDOR GLASS WALL SECTION
SCALE: 3/4" = 1'-0"



905.1 WALL SECTION AT ENTRY
SCALE: 3/4" = 1'-0"

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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION LICENSE NUMBER C-0118 REGISTERED 3/15/1978 GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 4118 STATE OF NORTH CAROLINA GREENVILLE, N.C.

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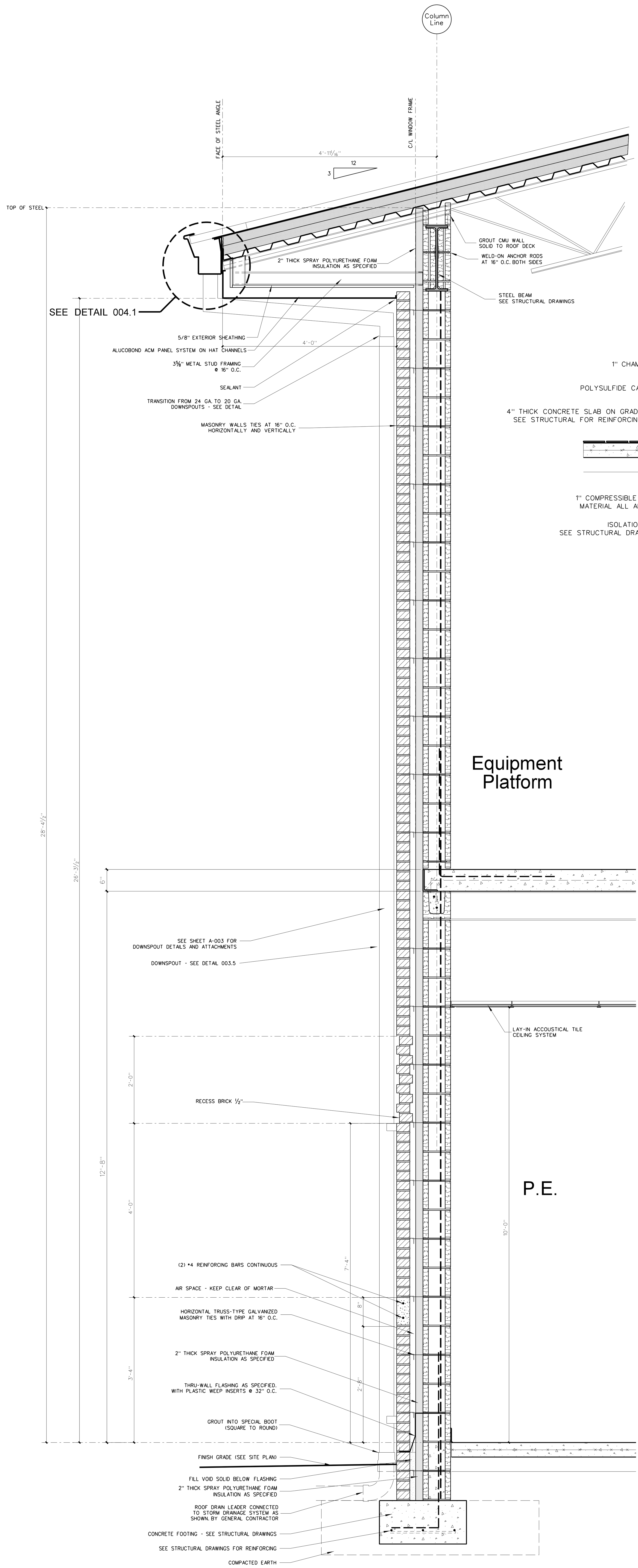
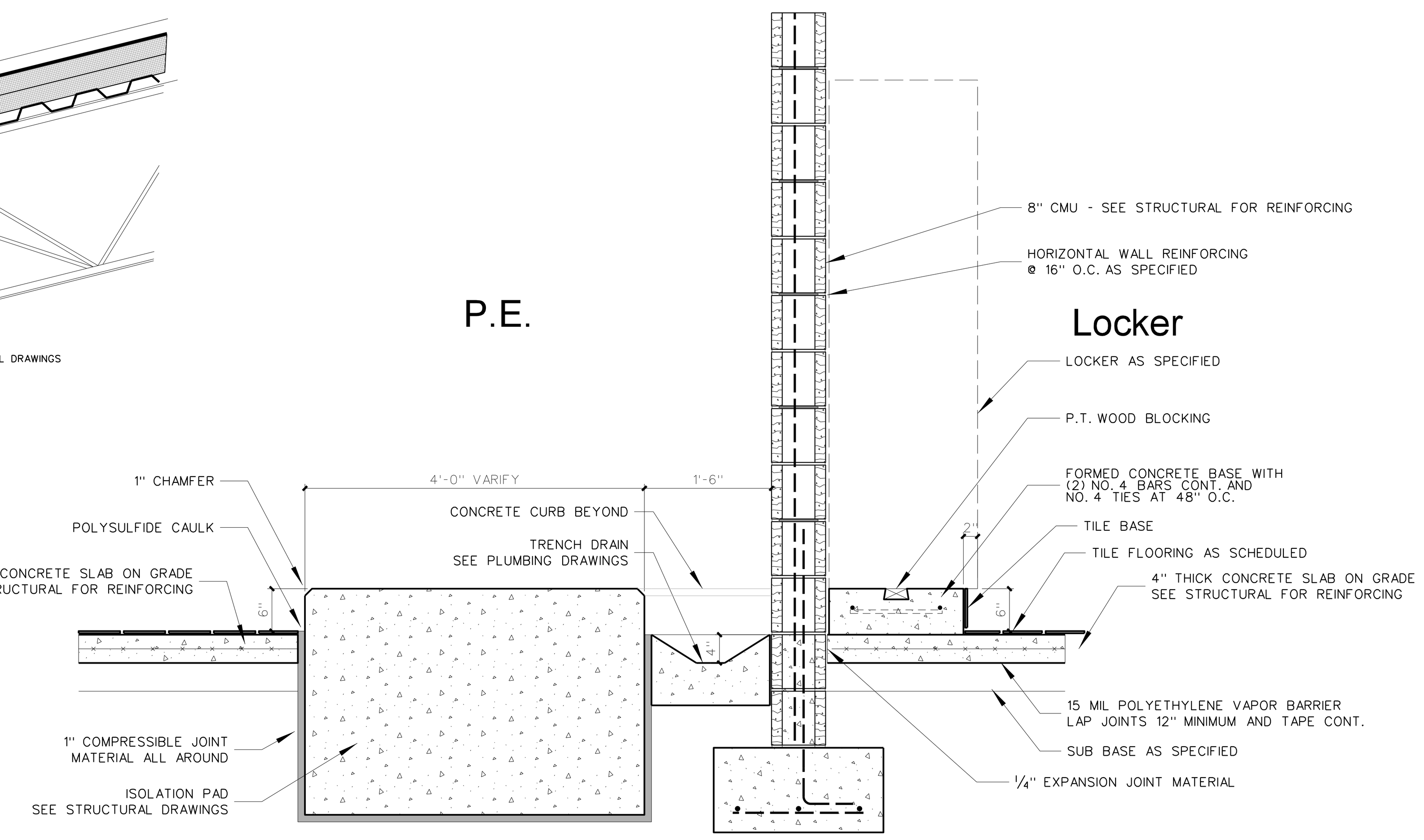
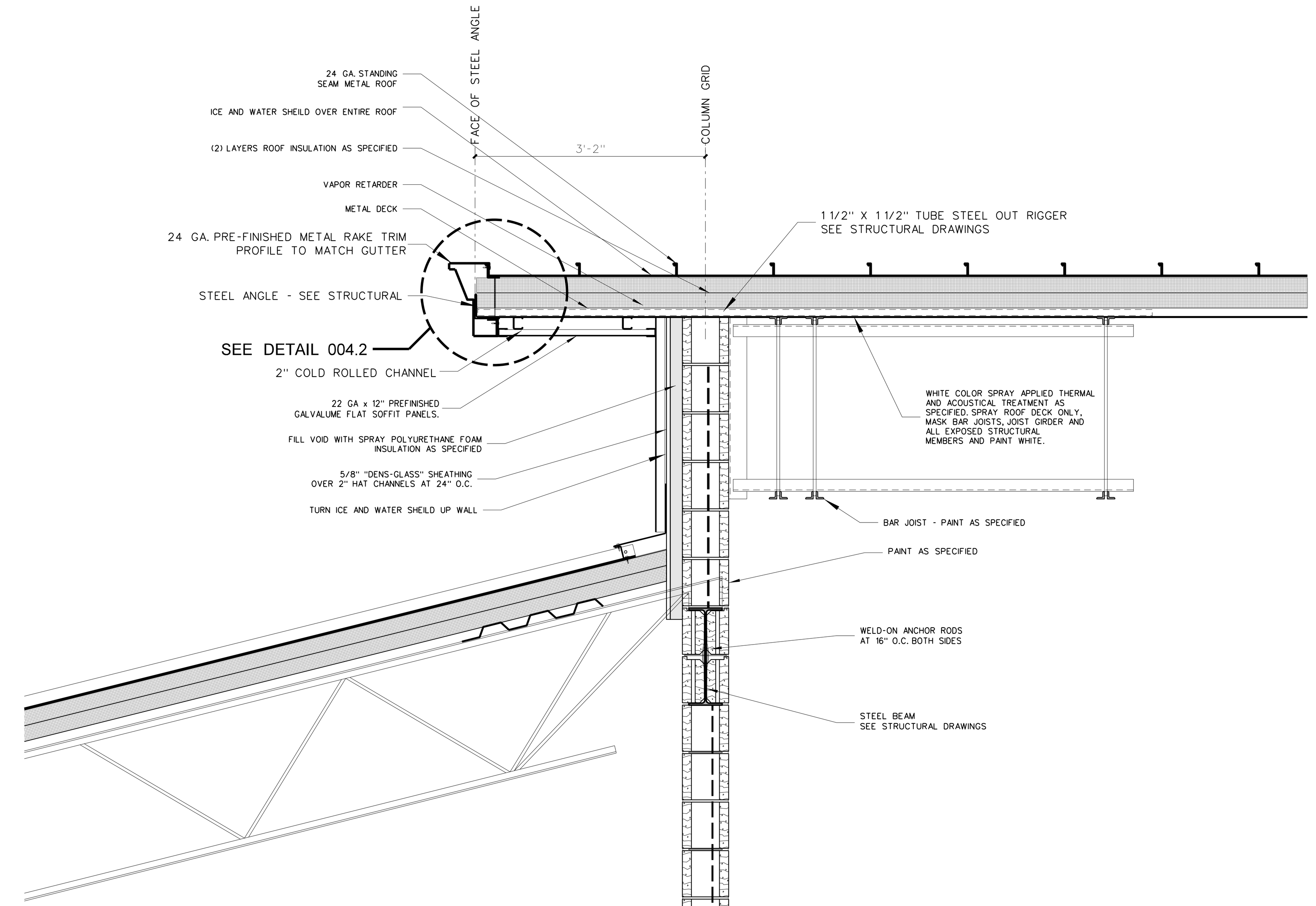
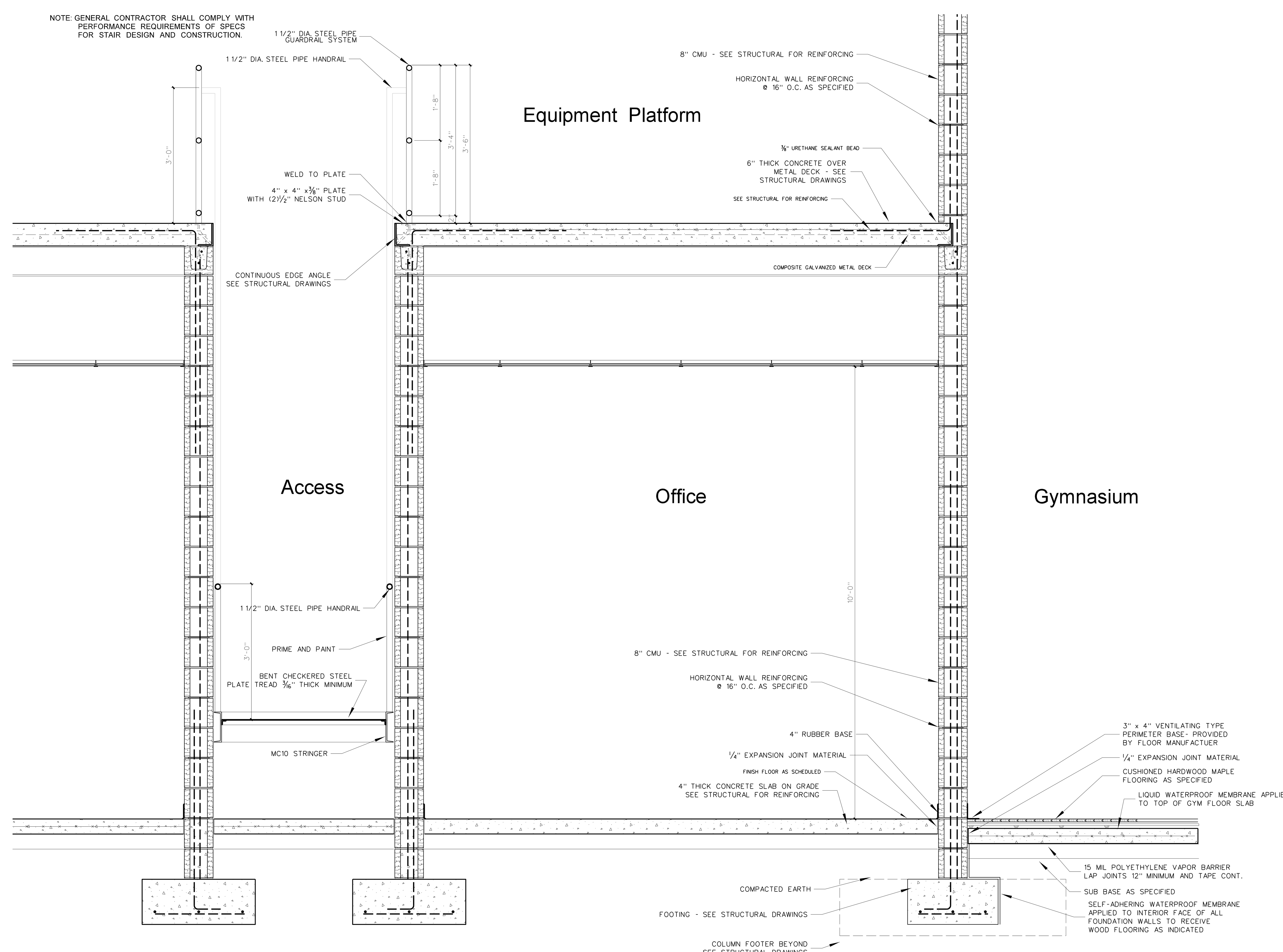


906.2 SECTION AT GYM PLATFORM
SCALE: 3/4" = 1'-0"



906.3 SECTION AT ISOLATION PAD
SCALE: 3/4" = 1'-0"





906.1 SECTION AT GYM PLATFORM
SCALE: 3/4" = 1'-0"

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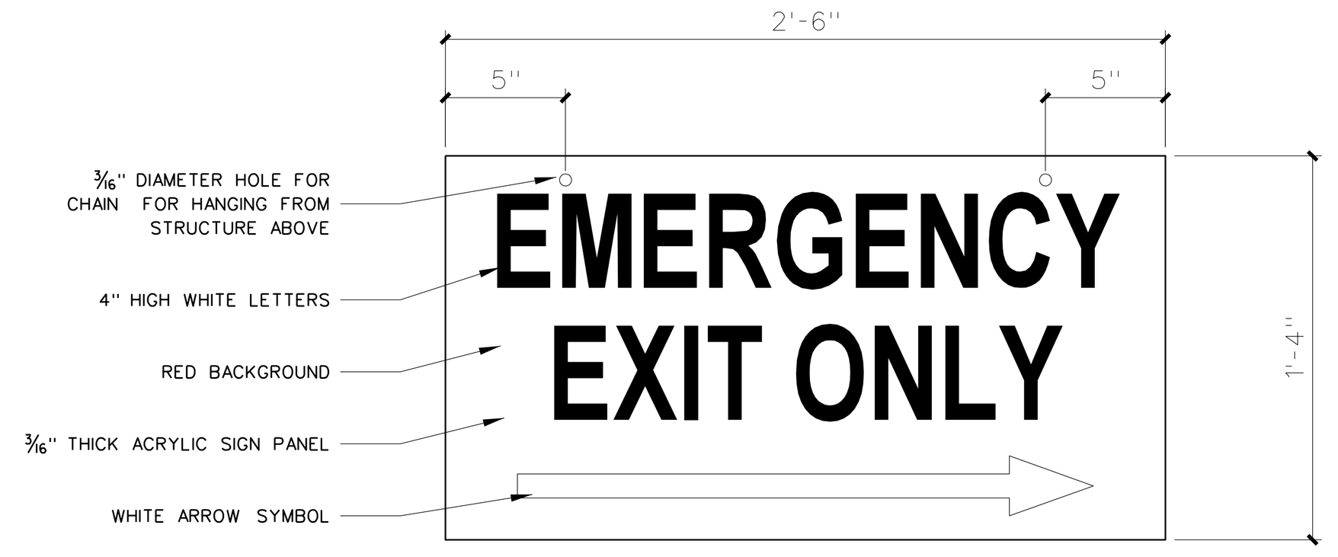
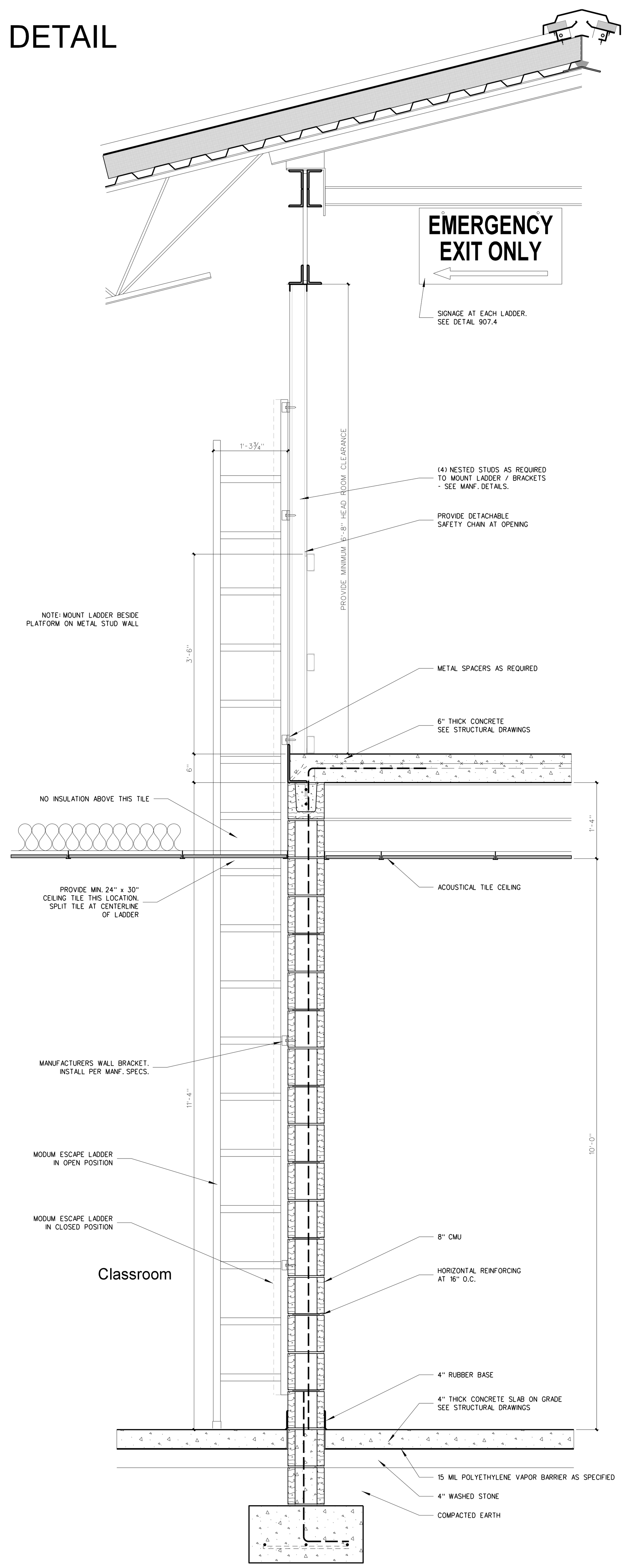
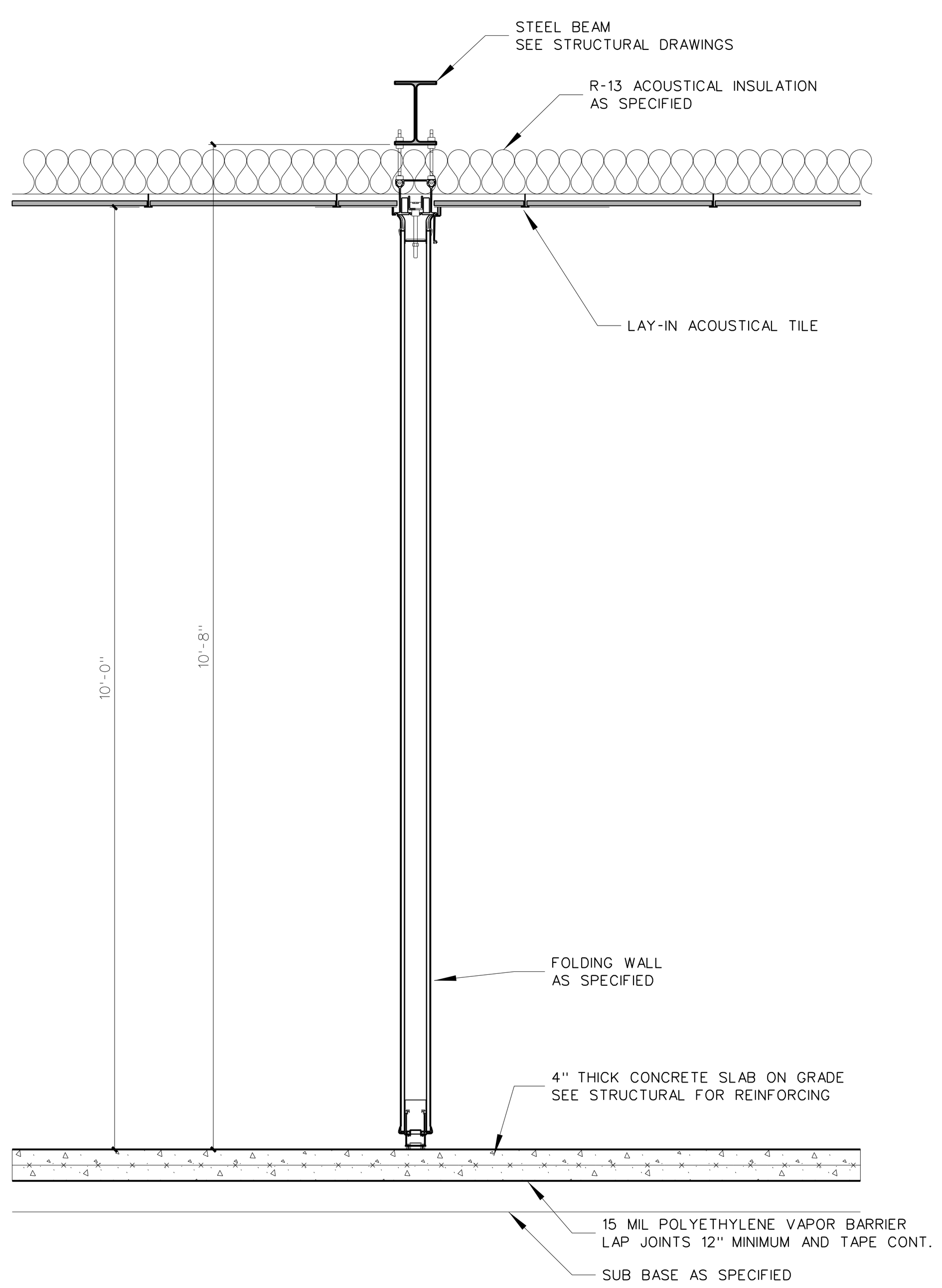


Note: Locate sign with clear line of sight down Platform.

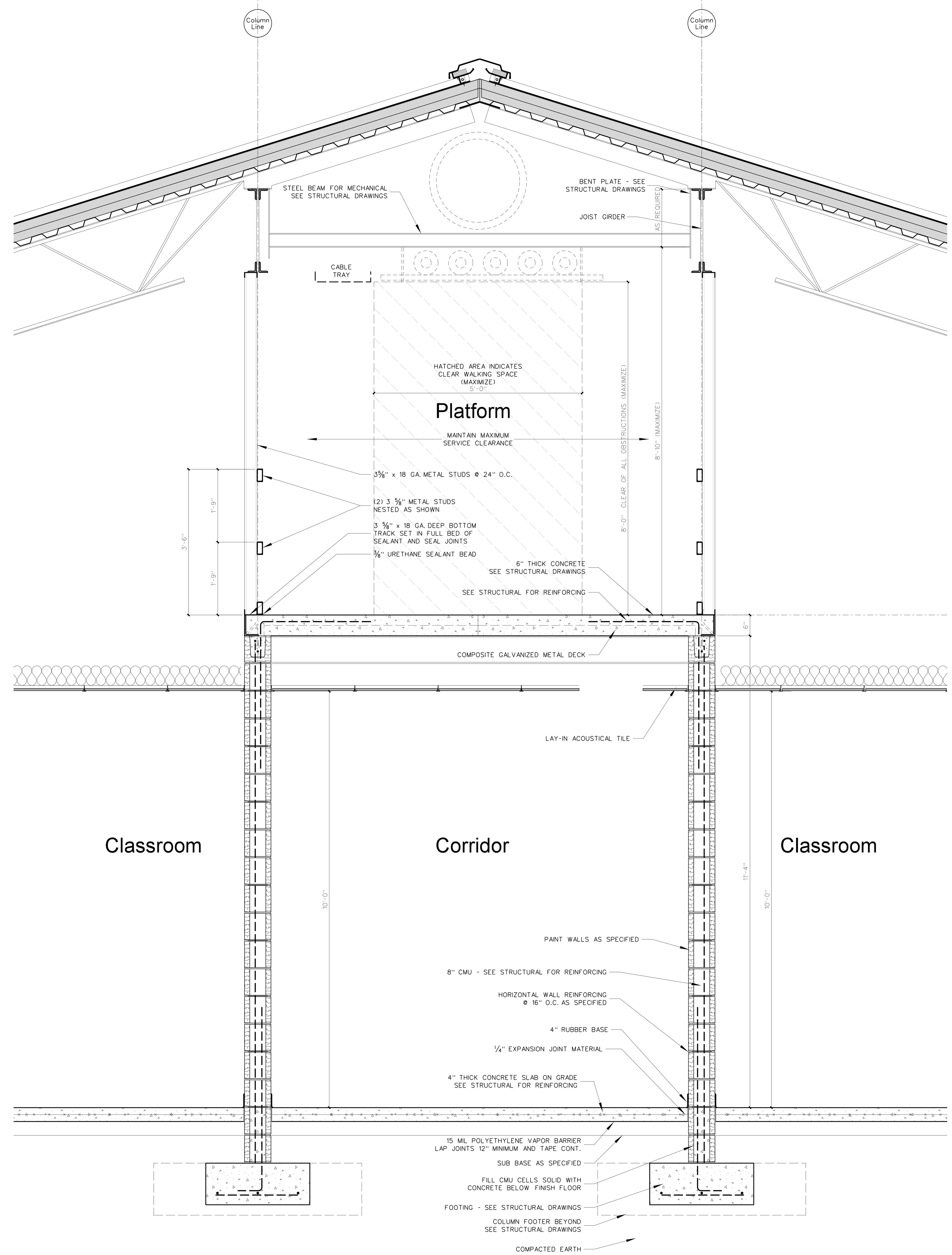
907.4 EGRESS LADDER SIGNAGE DETAIL
SCALE: NTS





907.3 SECTION AT FOLDING WALL
SCALE: 3/4" = 1'-0"

907.2 EGRESS LADDER DETAIL
SCALE: 3/4" = 1'-0"



907.1 CORRIDOR WALL SECTION
SCALE: 3/4" = 1'-0"

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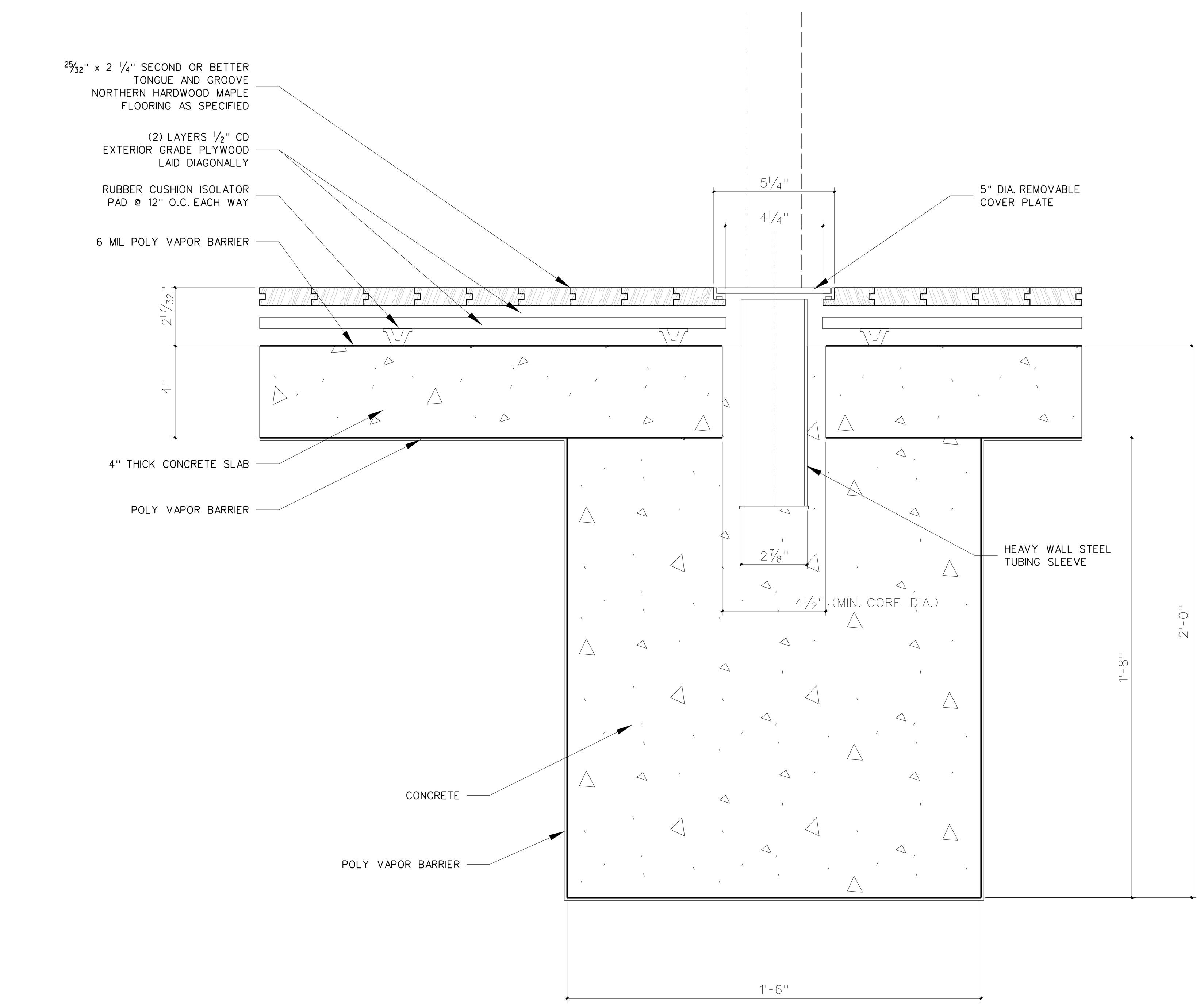
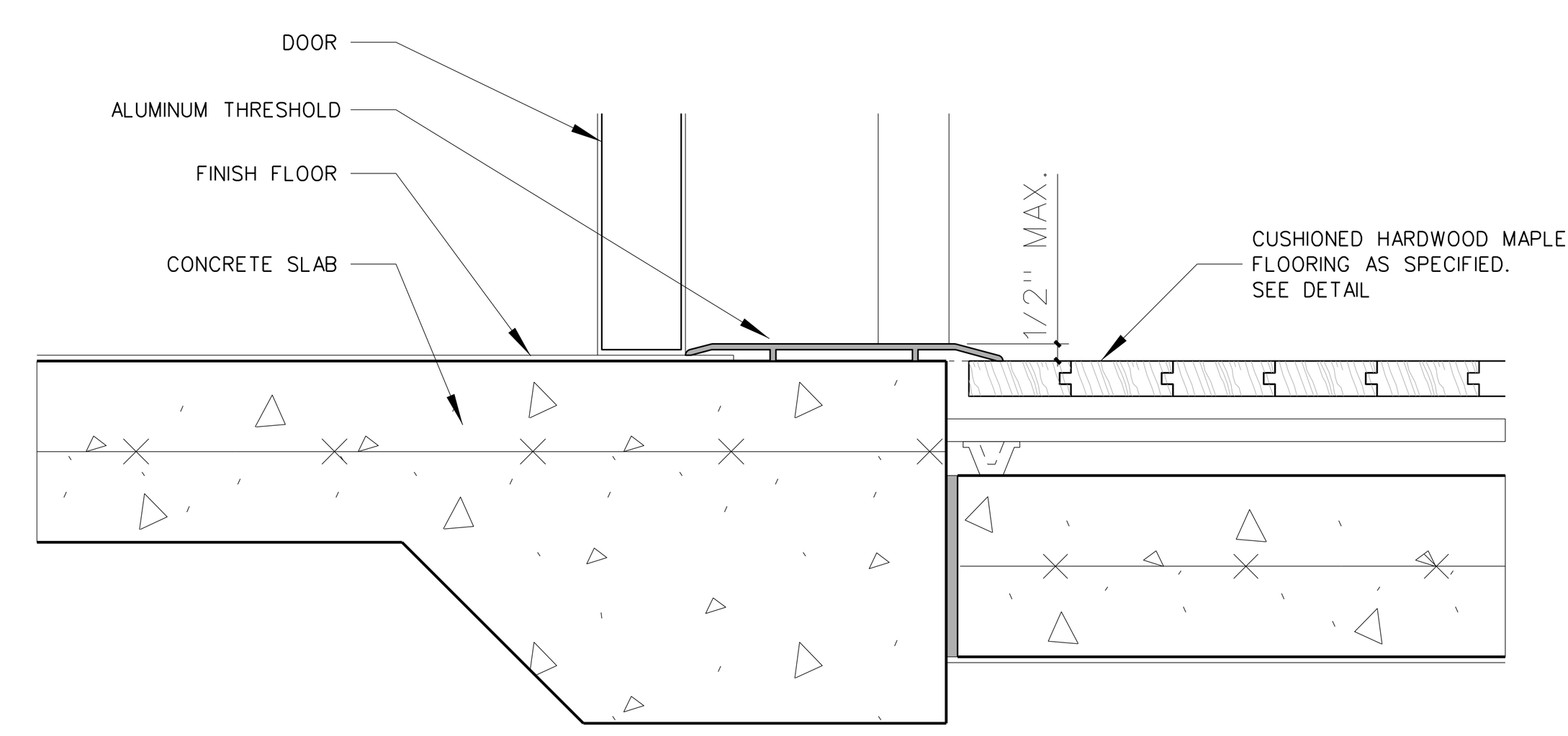
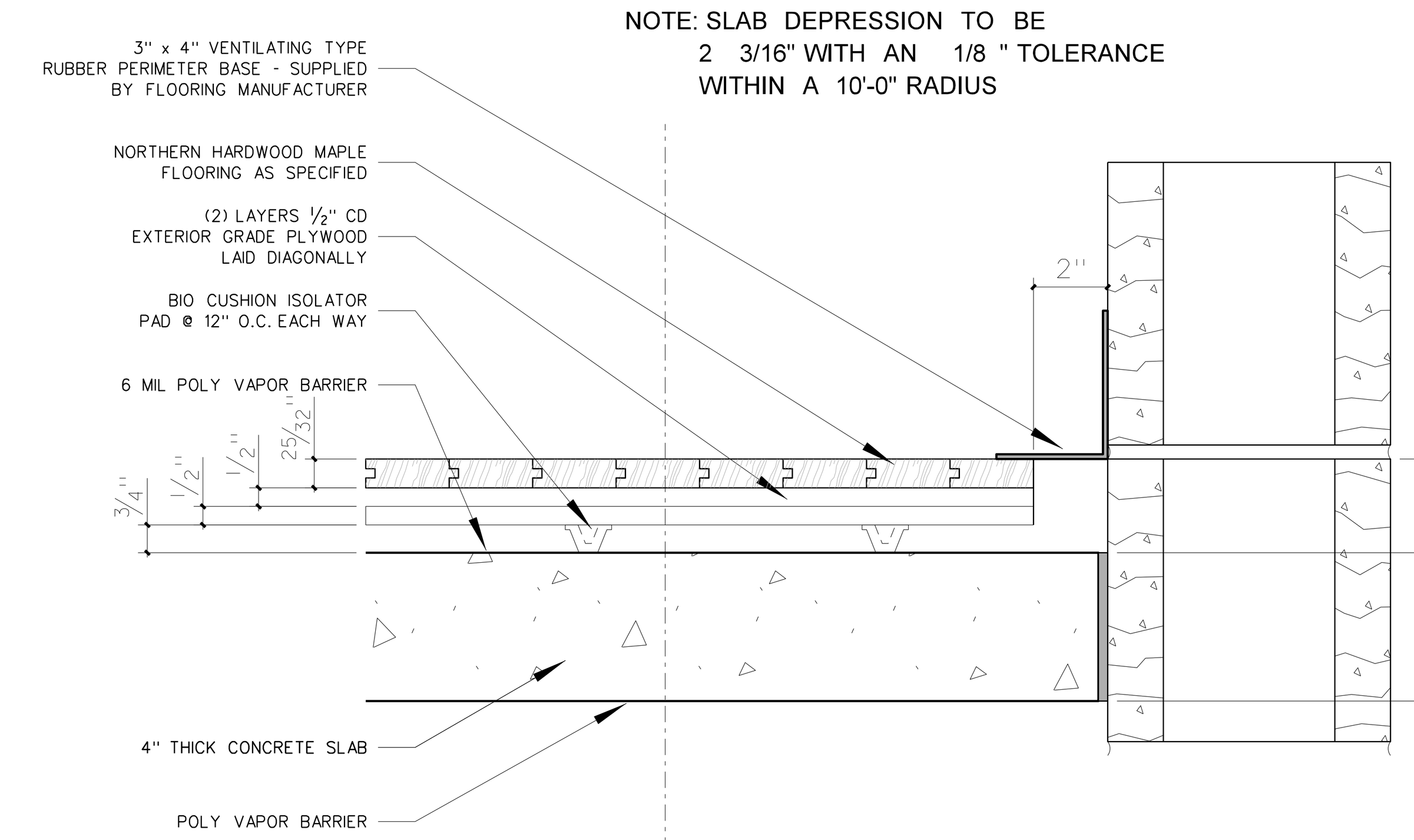


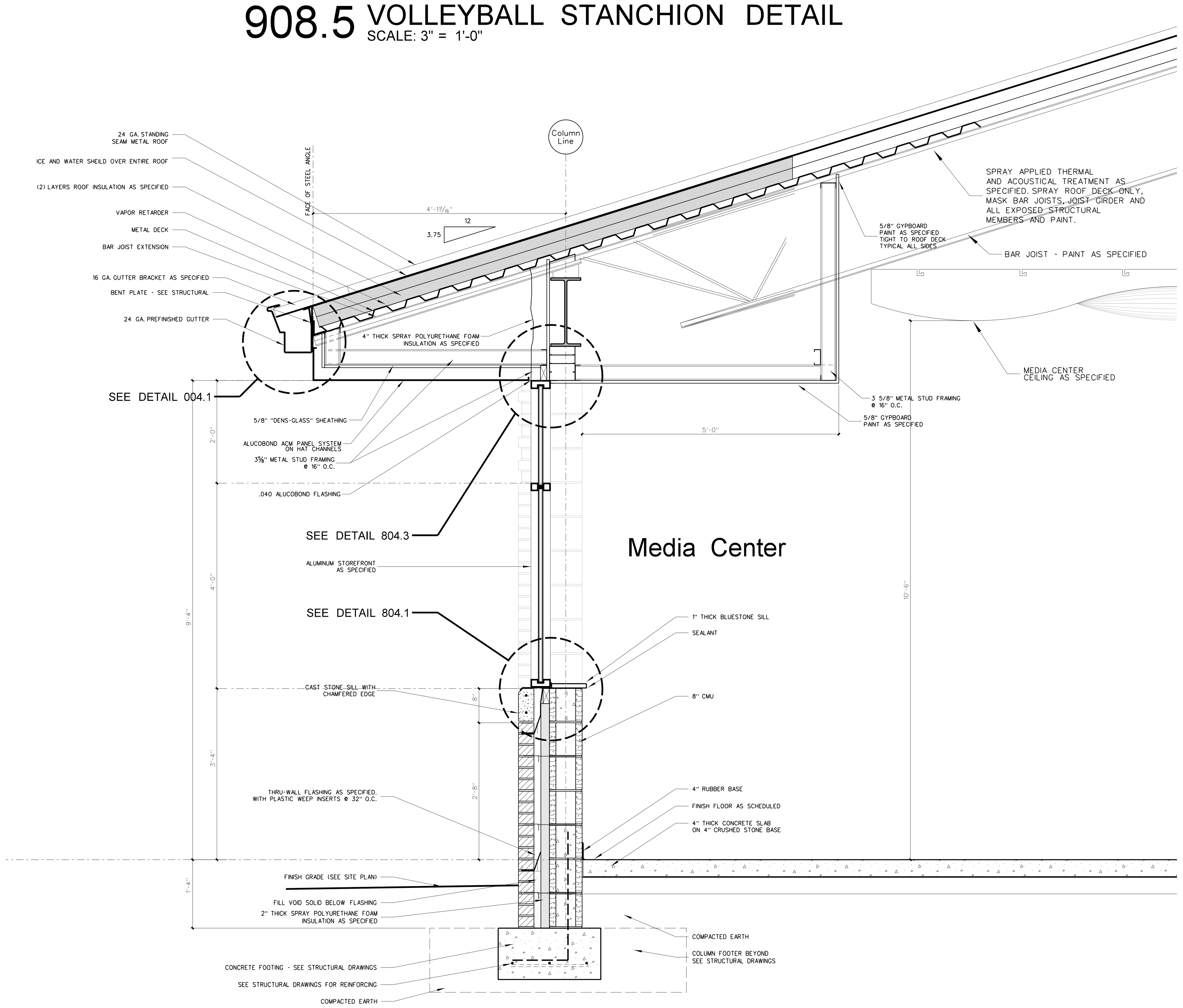
908.5 VOLLEYBALL STANCHION DETAIL
SCALE: 3" = 1'-0"



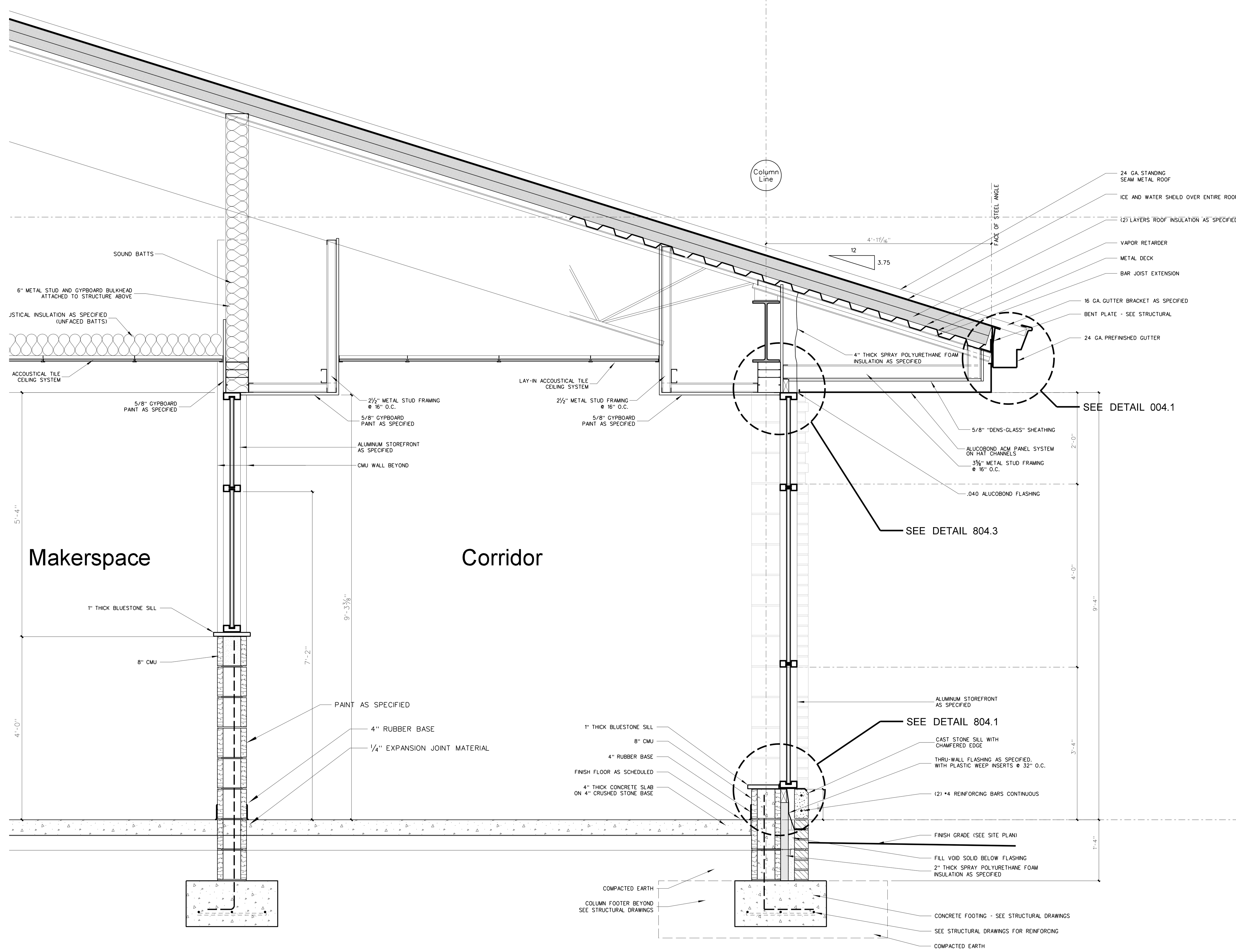
908.4 GYMNASIUM DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



908.3 GYMNASIUM FLOOR / BASE DETAIL
SCALE: 3" = 1'-0"



908.2 WALL SECTION AT MEDIA CENTER
SCALE: 3/4" = 1'-0"



908.1 CORRIDOR WALL SECTION
SCALE: 3/4" = 1'-0"

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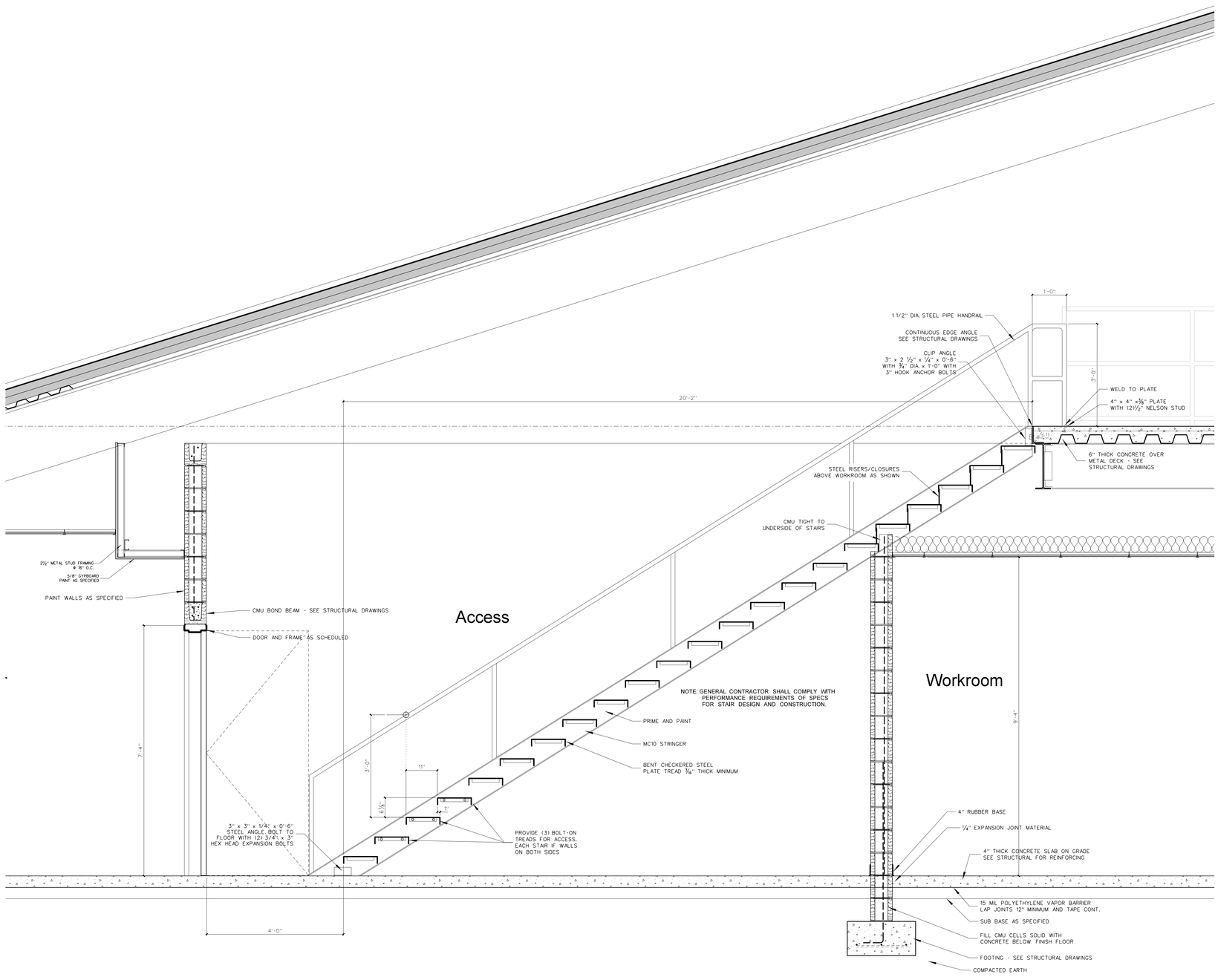
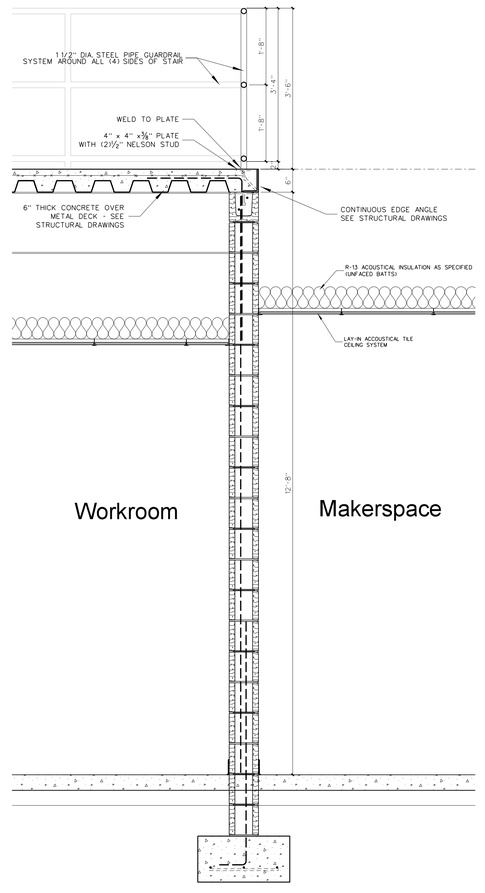
908



909.2 SECTION AT 100 UNIT PLATFORM ACCESS
SCALE: 3/4" = 1'-0"



909.1 SECTION AT 100 UNIT PLATFORM
SCALE: 3/4" = 1'-0"

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JAMES GRAY HITE — REGISTERED ARCHITECT — GREENVILLE, NC

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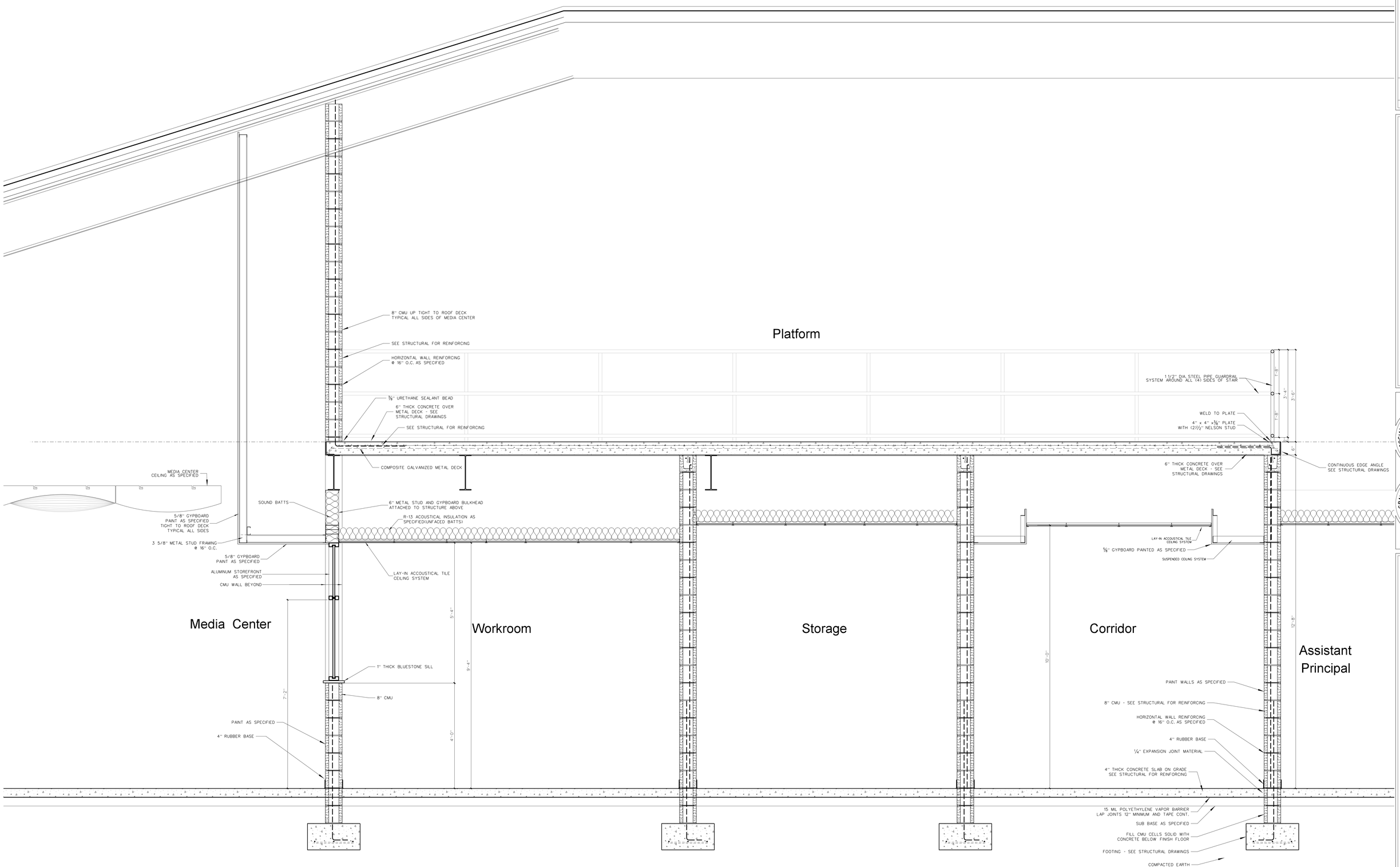

910.1 SECTION AT 100 UNIT PLATFORM
SCALE: 3/4" = 1'-0"

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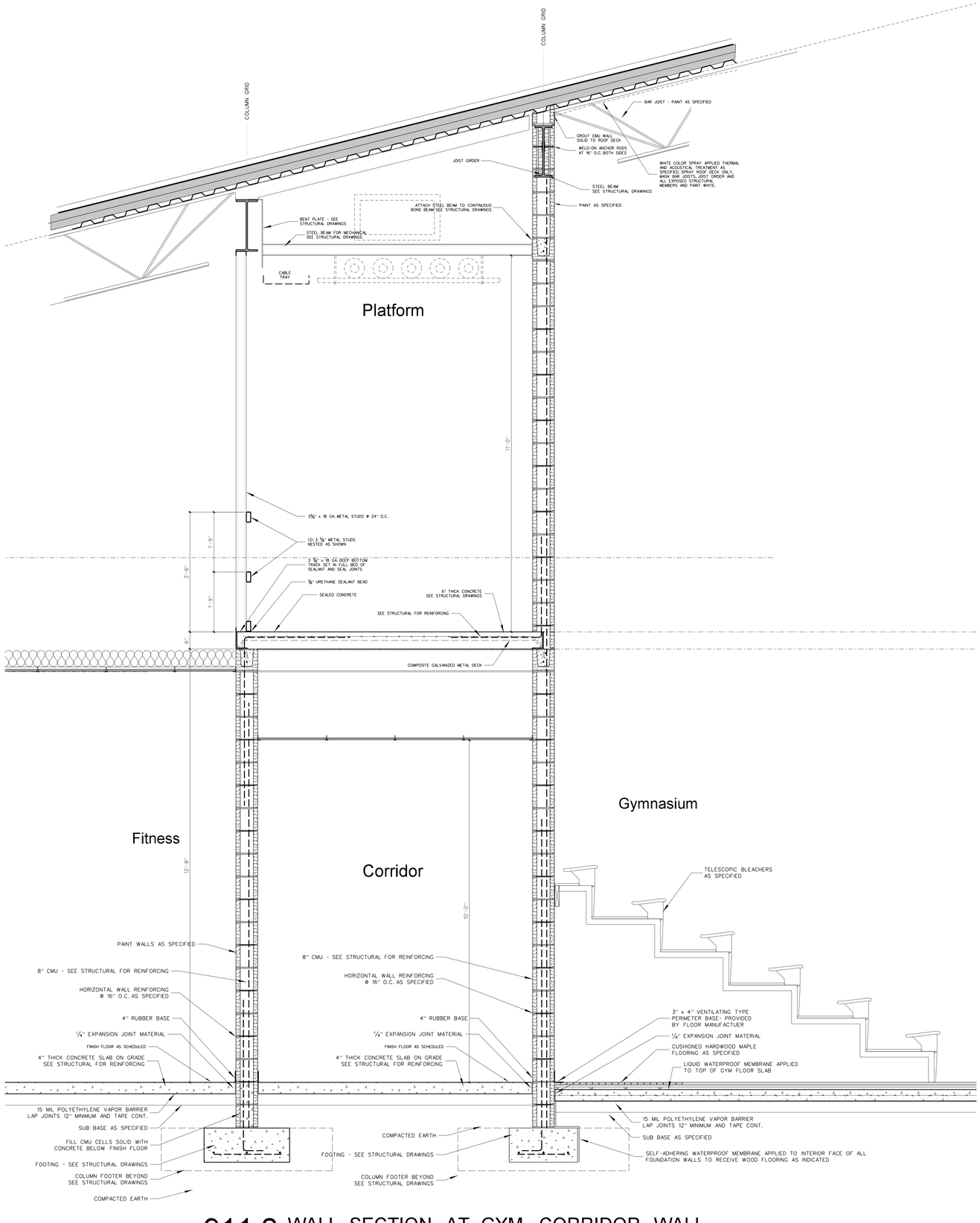
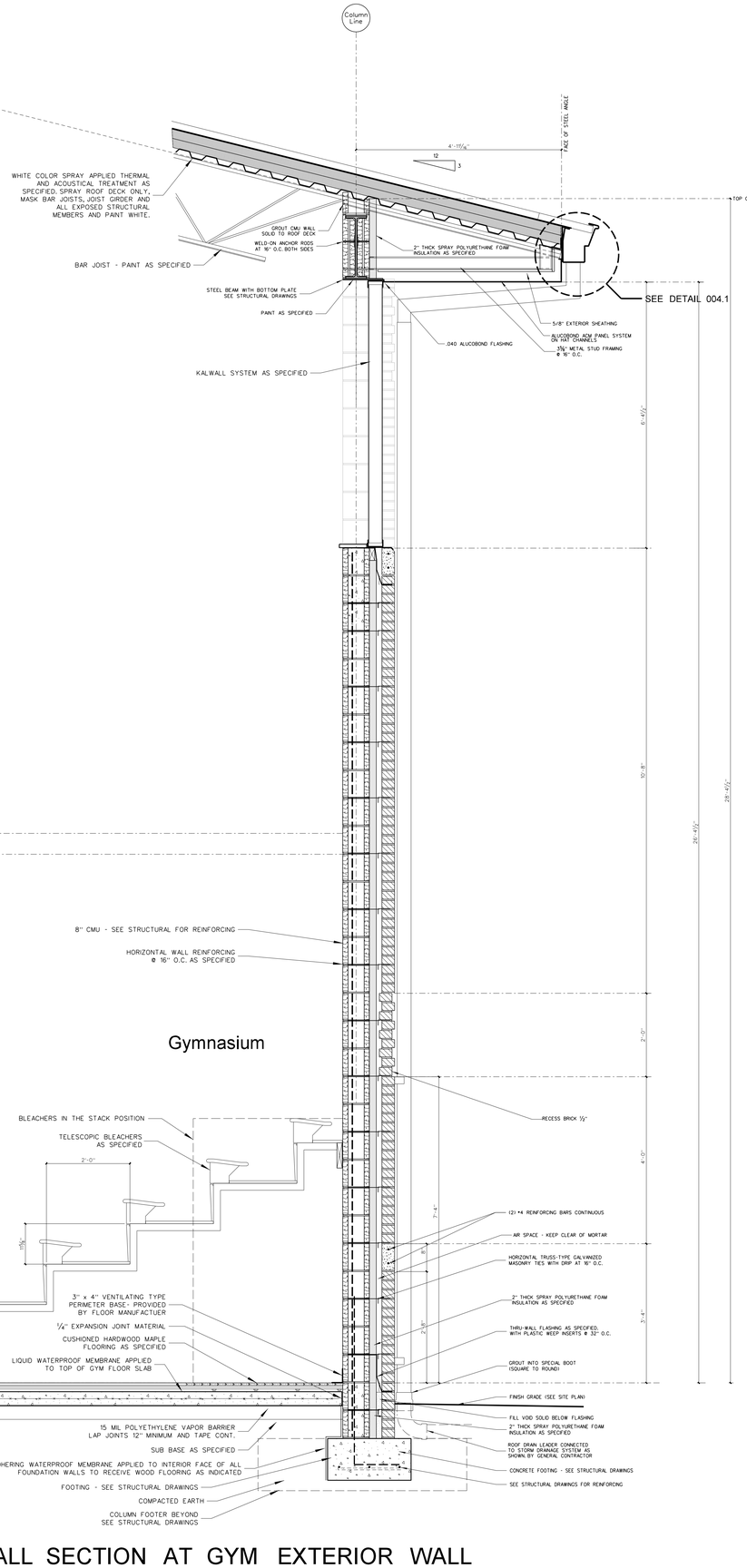


911.2 WALL SECTION AT GYM CORRIDOR WALL
SCALE: 3/4" = 1'-0"



911.1 WALL SECTION AT GYM EXTERIOR WALL
SCALE: 3/4" = 1'-0"

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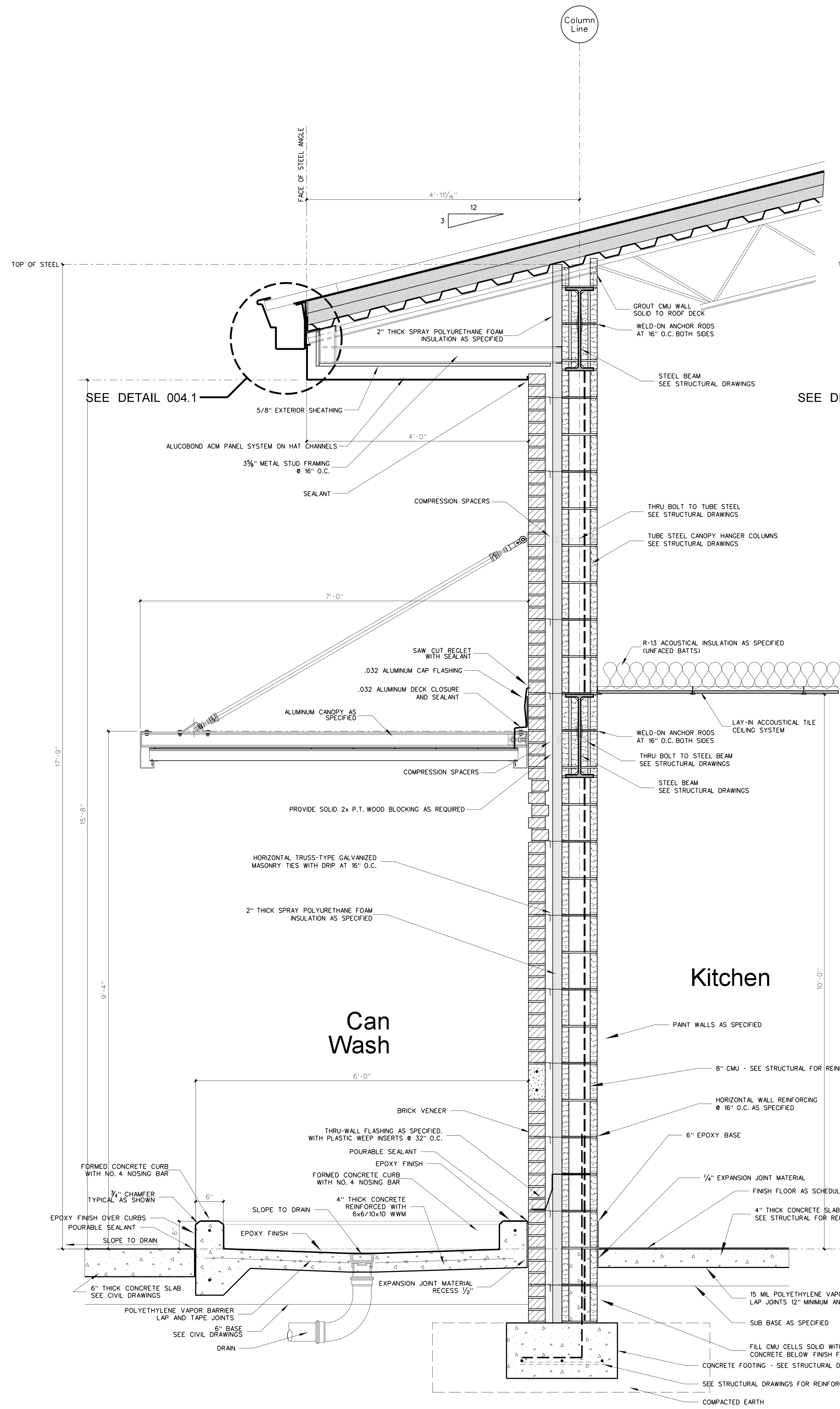
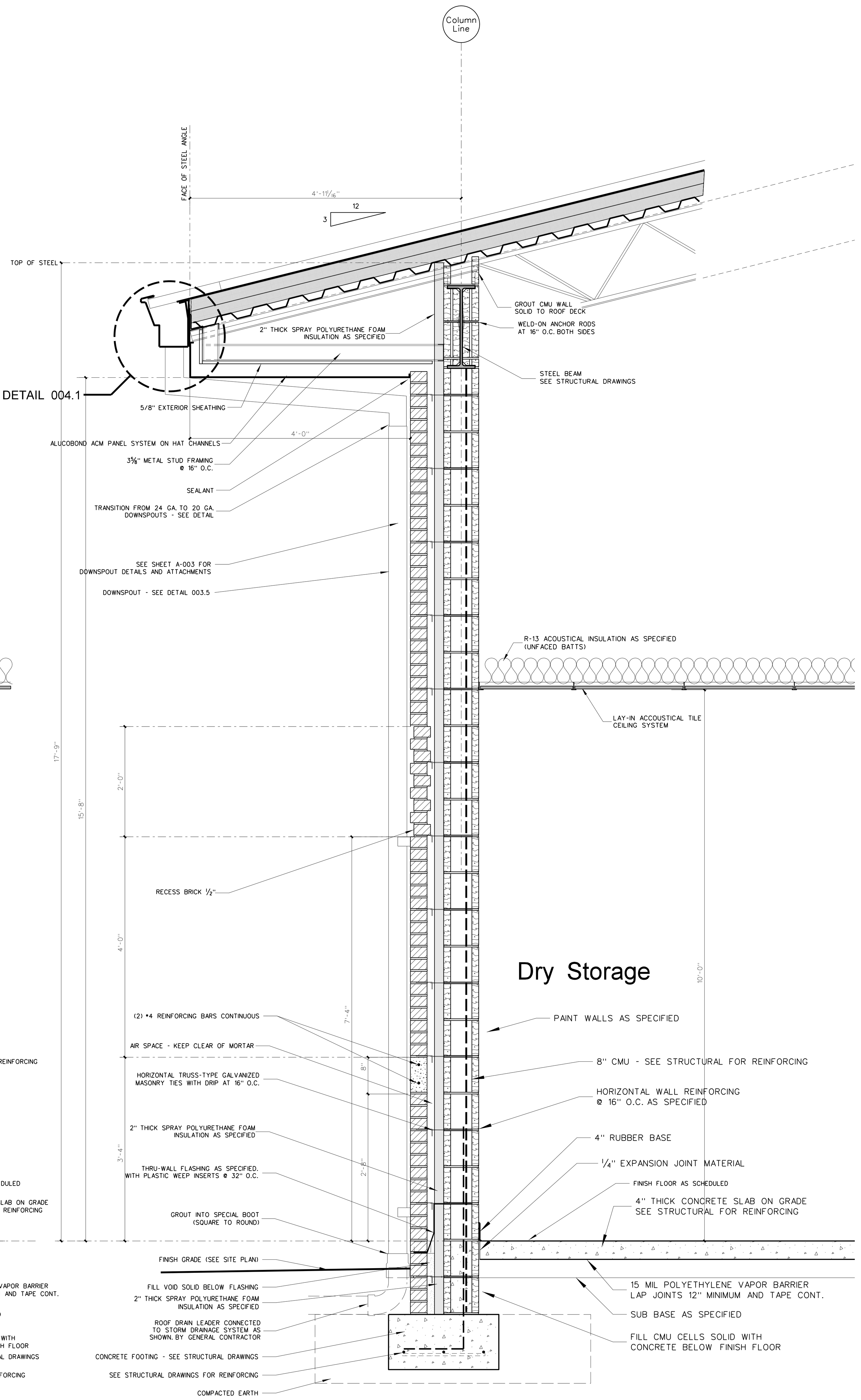
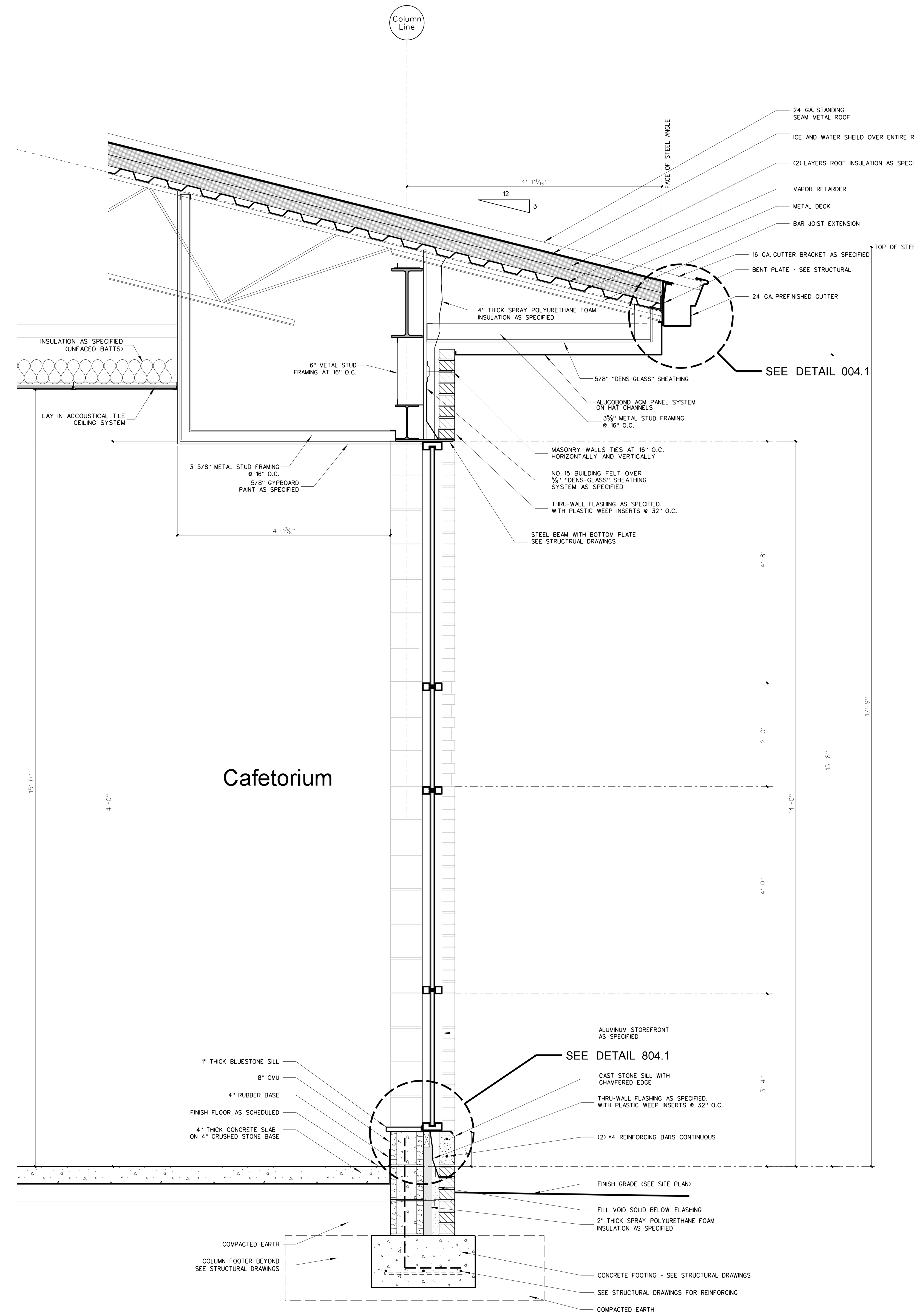


912.3 WALL SECTION AT CAN WASH
SCALE: 3/4" = 1'-0"



912.2 WALL SECTION AT DRY STORAGE
SCALE: 3/4" = 1'-0"



912.1 WALL SECTION AT CAFETORIUM EXTERIOR WALL
SCALE: 3/4" = 1'-0"

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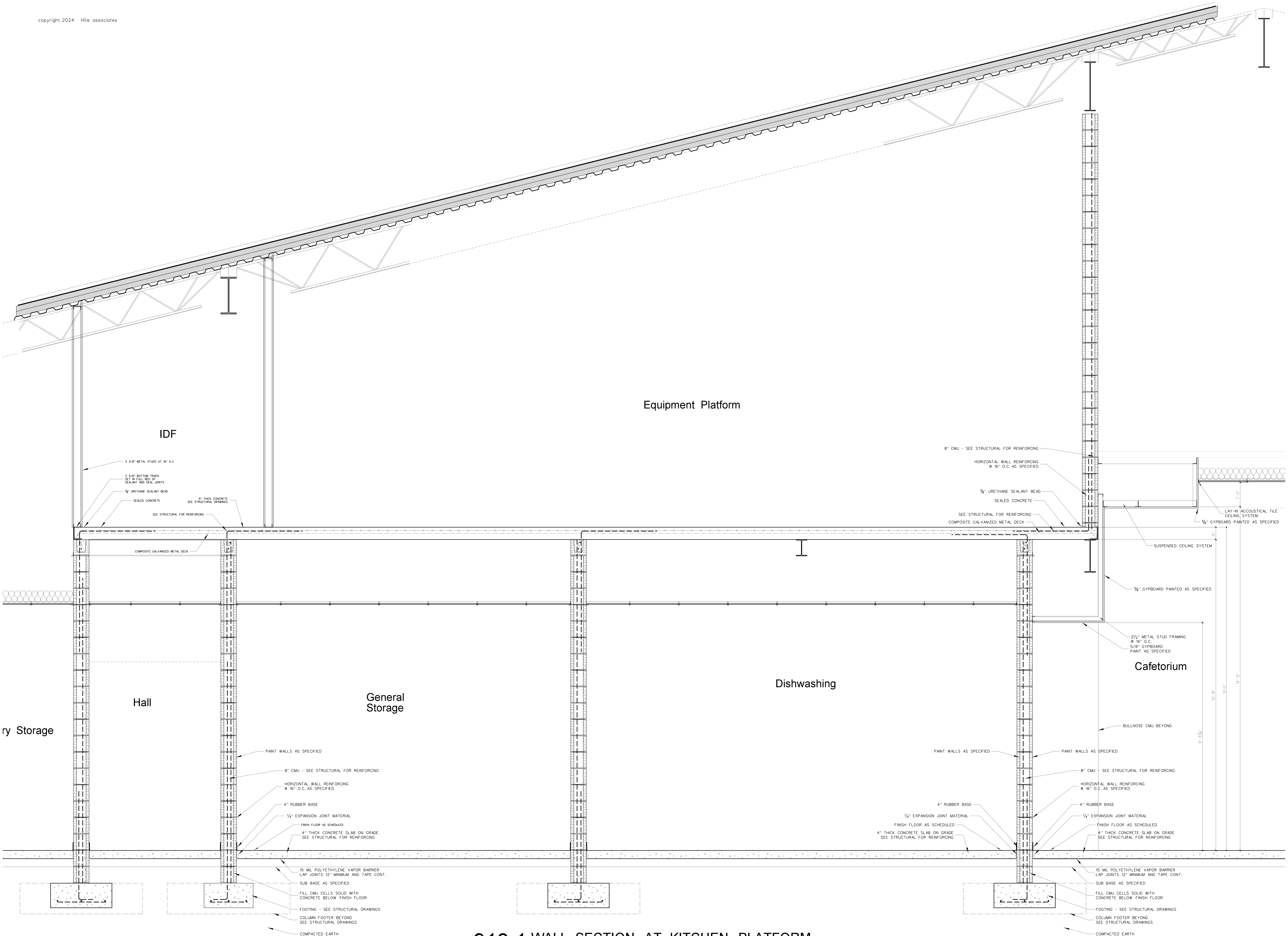

913.1 WALL SECTION AT KITCHEN PLATFORM
SCALE: 3/4" = 1'-0"

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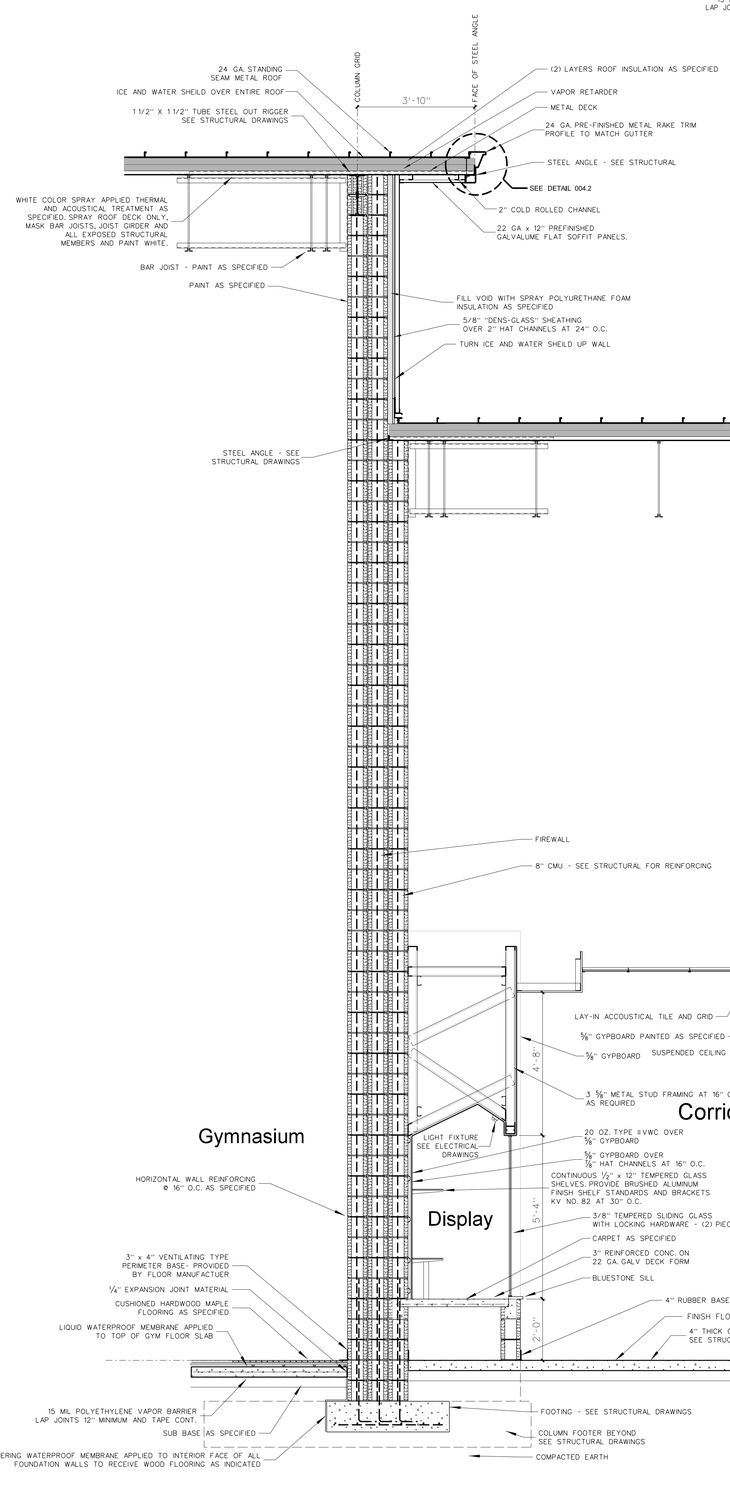
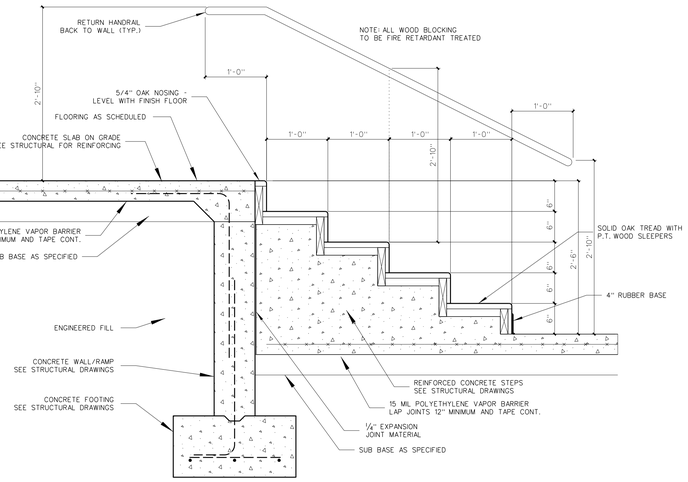
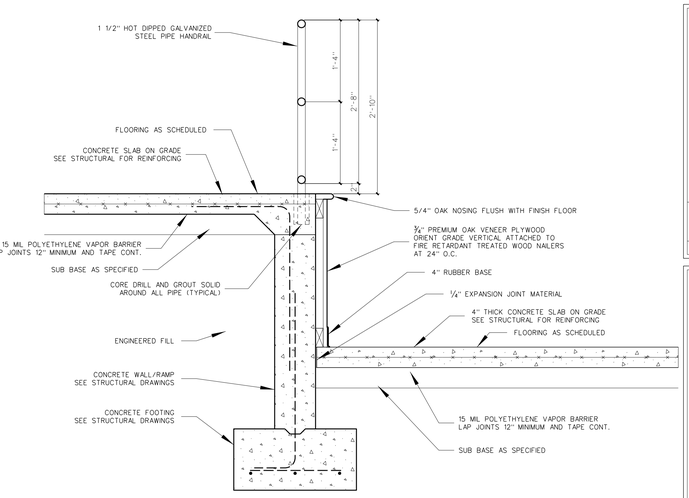


914.1 FIREWALL MULTIPURPOSE PLATFORM
SCALE: 1/2" = 1'-0"



914.3 PLATFORM STEPS
SCALE: 1" = 1'-0"



914.2 TYPICAL PLATFORM RAMP SECTION
SCALE: 1" = 1'-0"

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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION CERTIFICATE NUMBER C-418 REGISTERED GREENVILLE, N.C.

JAMES GRAY HITE REGISTERED ARCHITECT 7834 STATE OF NORTH CAROLINA GREENVILLE, N.C.

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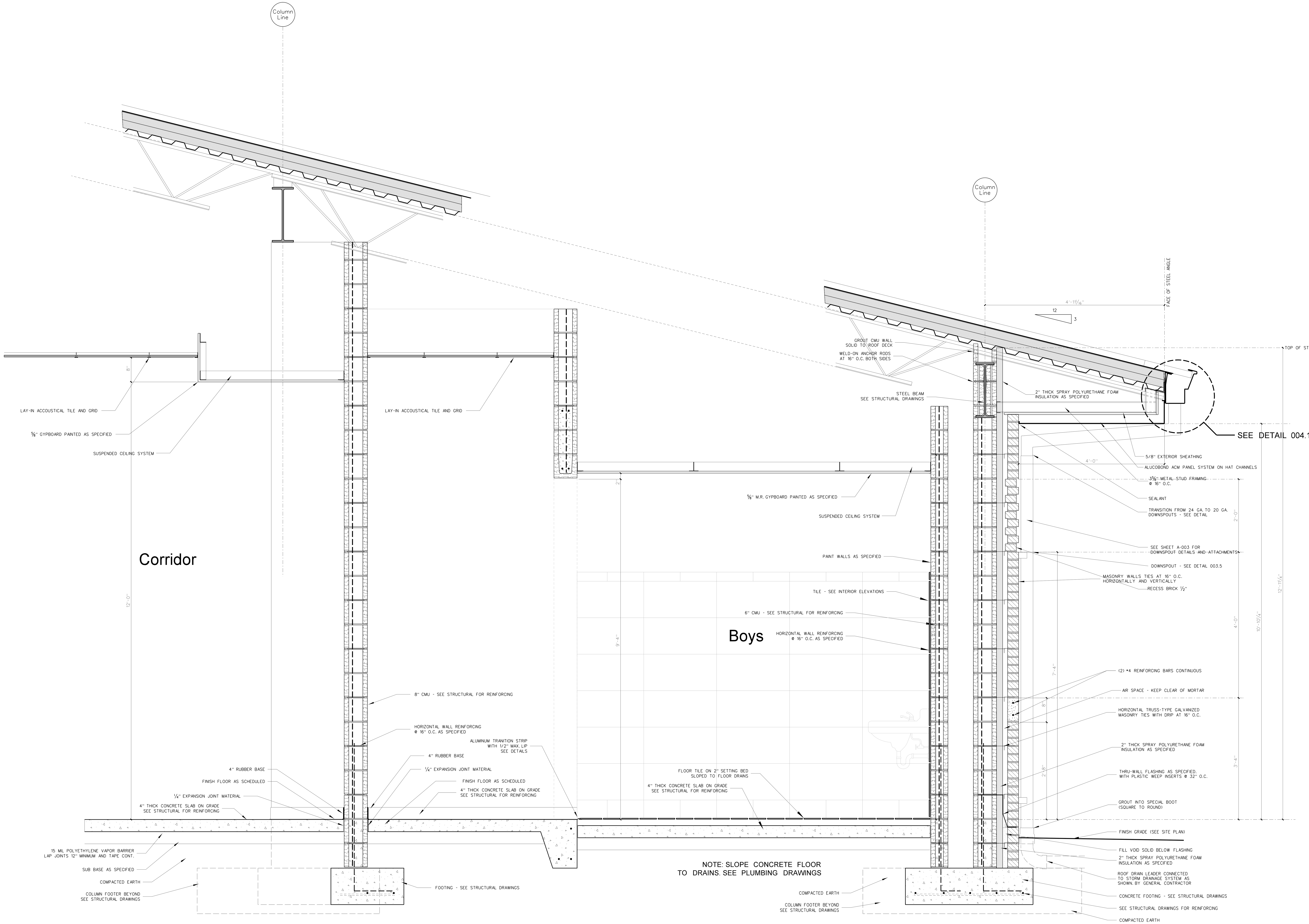

915.1 WALL SECTION AT GANG TOILET

SCALE: 1" = 1'-0"

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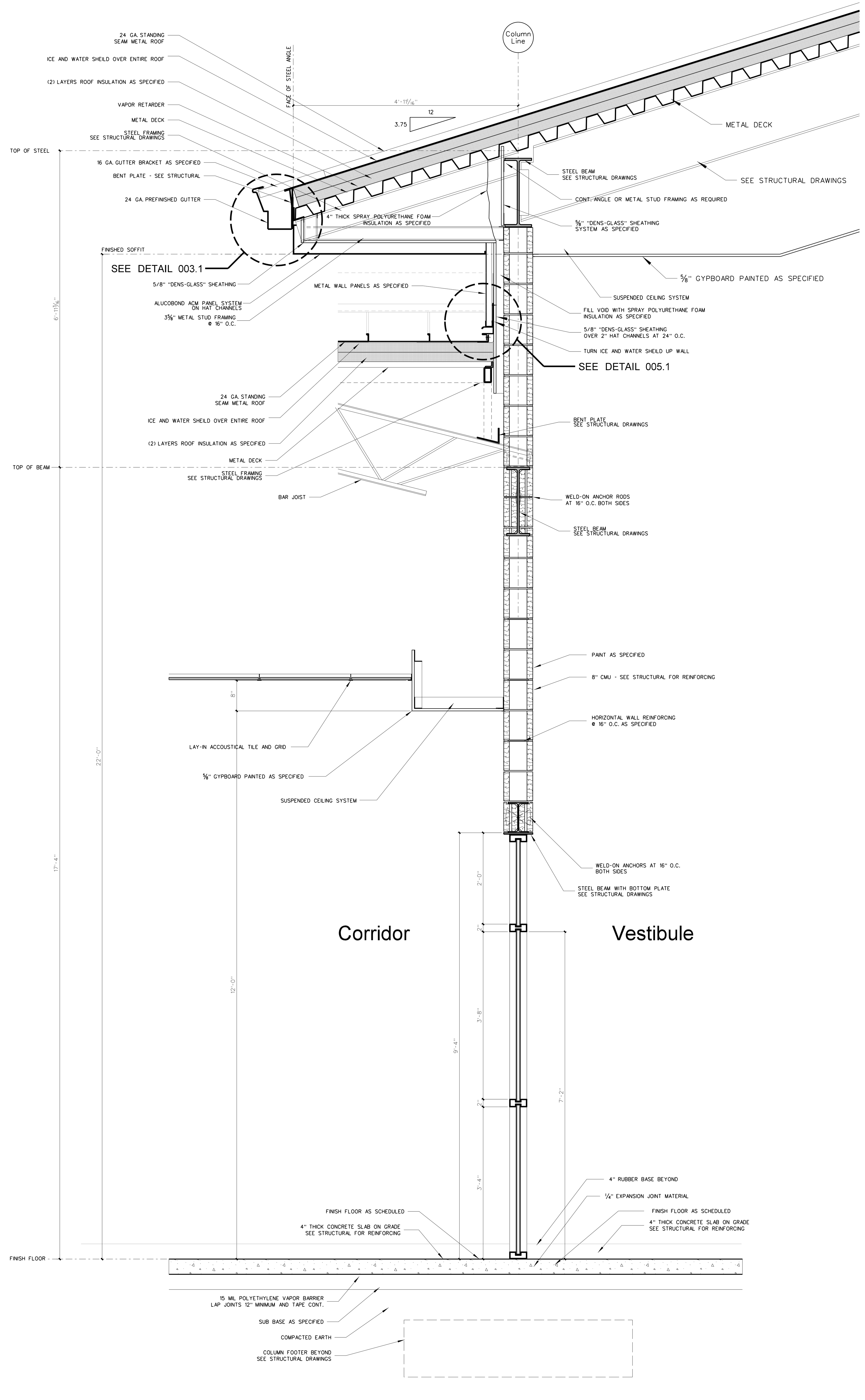
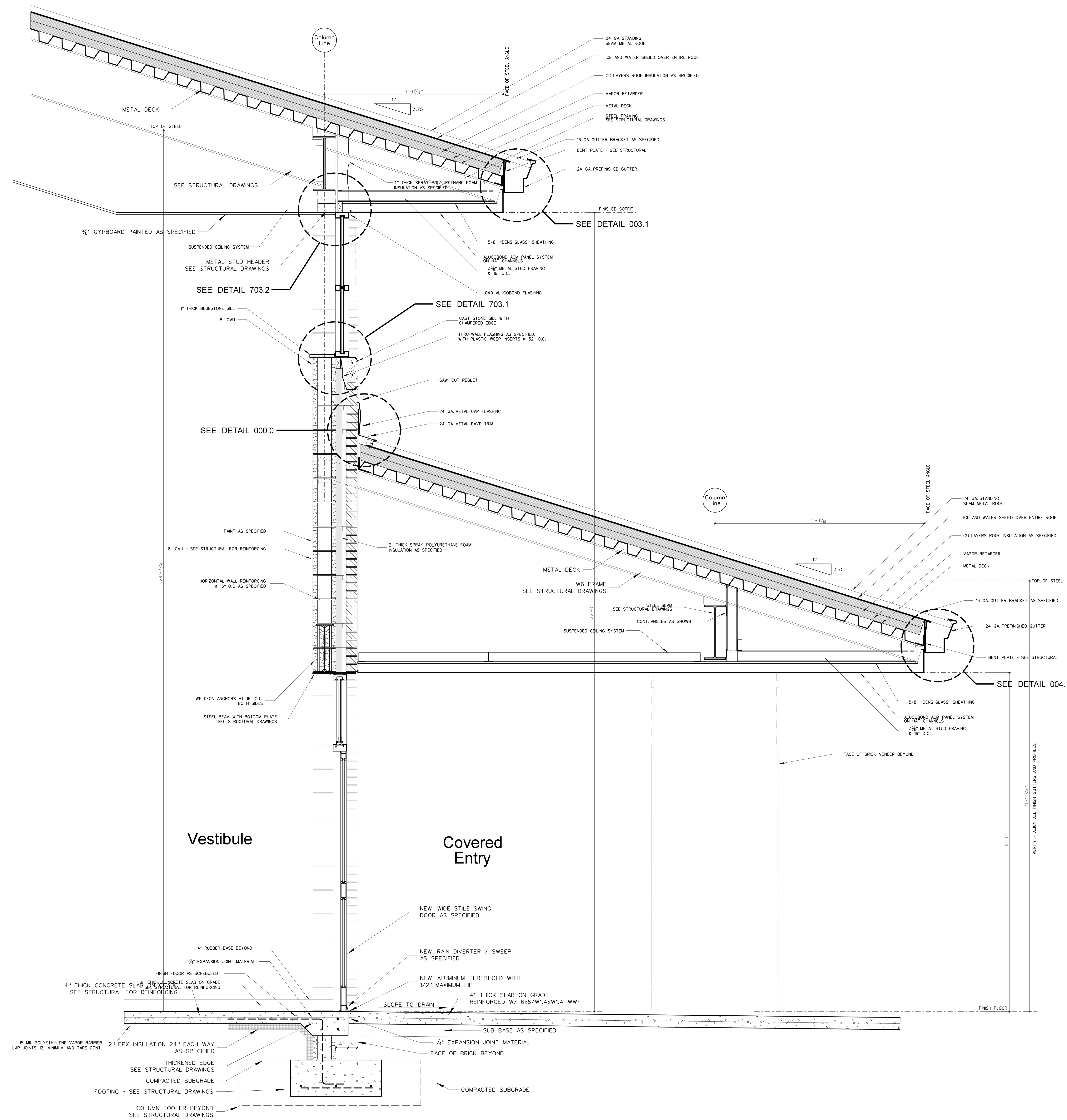
Date: 10 August 2024
Drawing no. A 915



916.2 WALL SECTION AT ENTRY
SCALE: 3/4" = 1'-0"



916.1 WALL SECTION AT ENTRY
SCALE: 3/4" = 1'-0"

No. Date: Revision

Hite associates
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2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. 418 GREENVILLE
JAMES GRAY HITE ARCHITECT GREENVILLE

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Project No. 22303
Date: 10 August 2024
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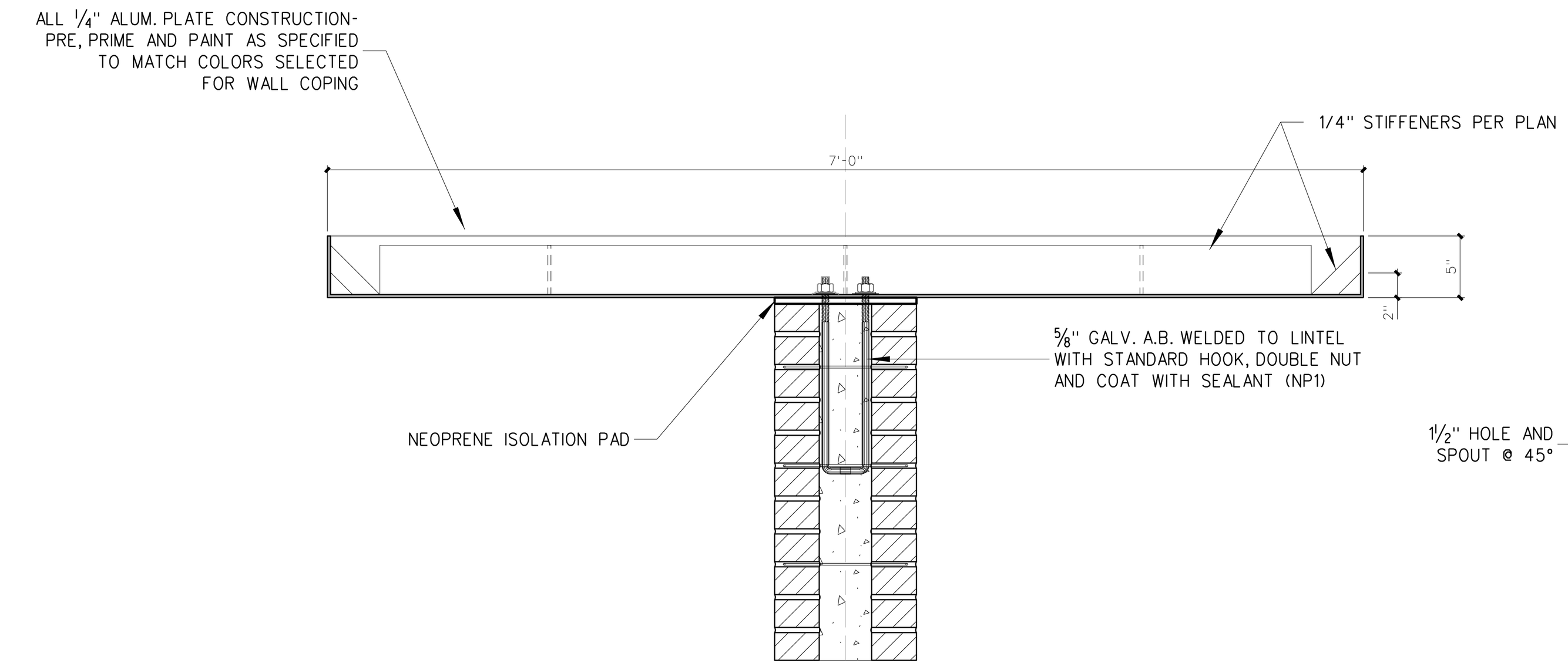
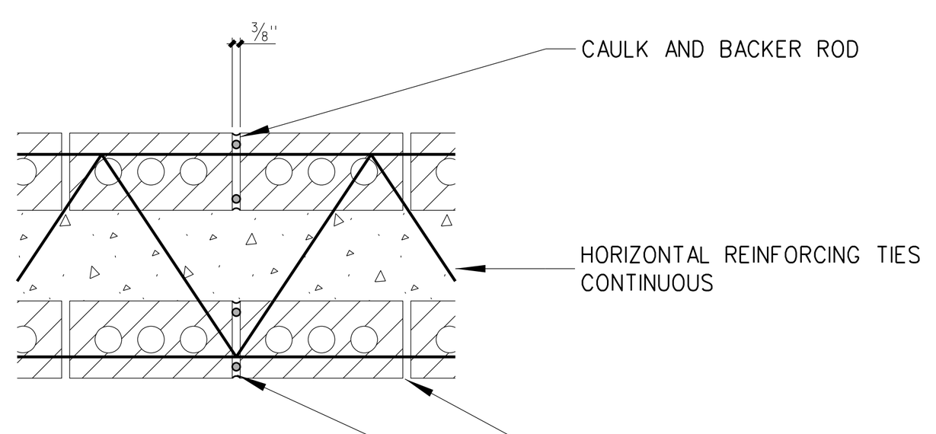
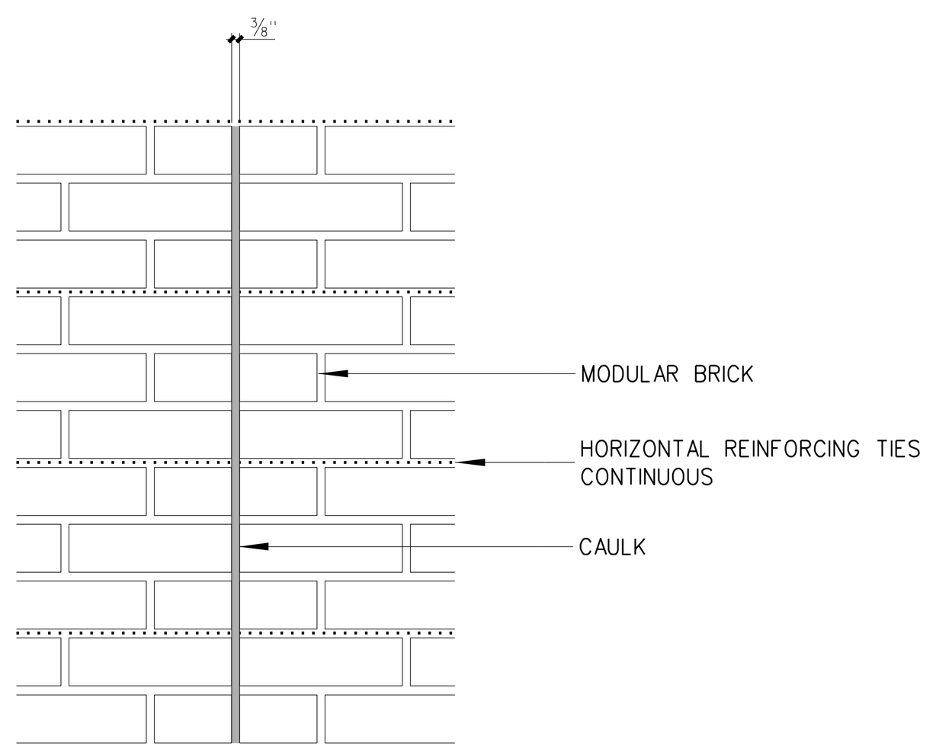


917.6 SCREEN WALL SECTION
SCALE: 1" = 1'-0"



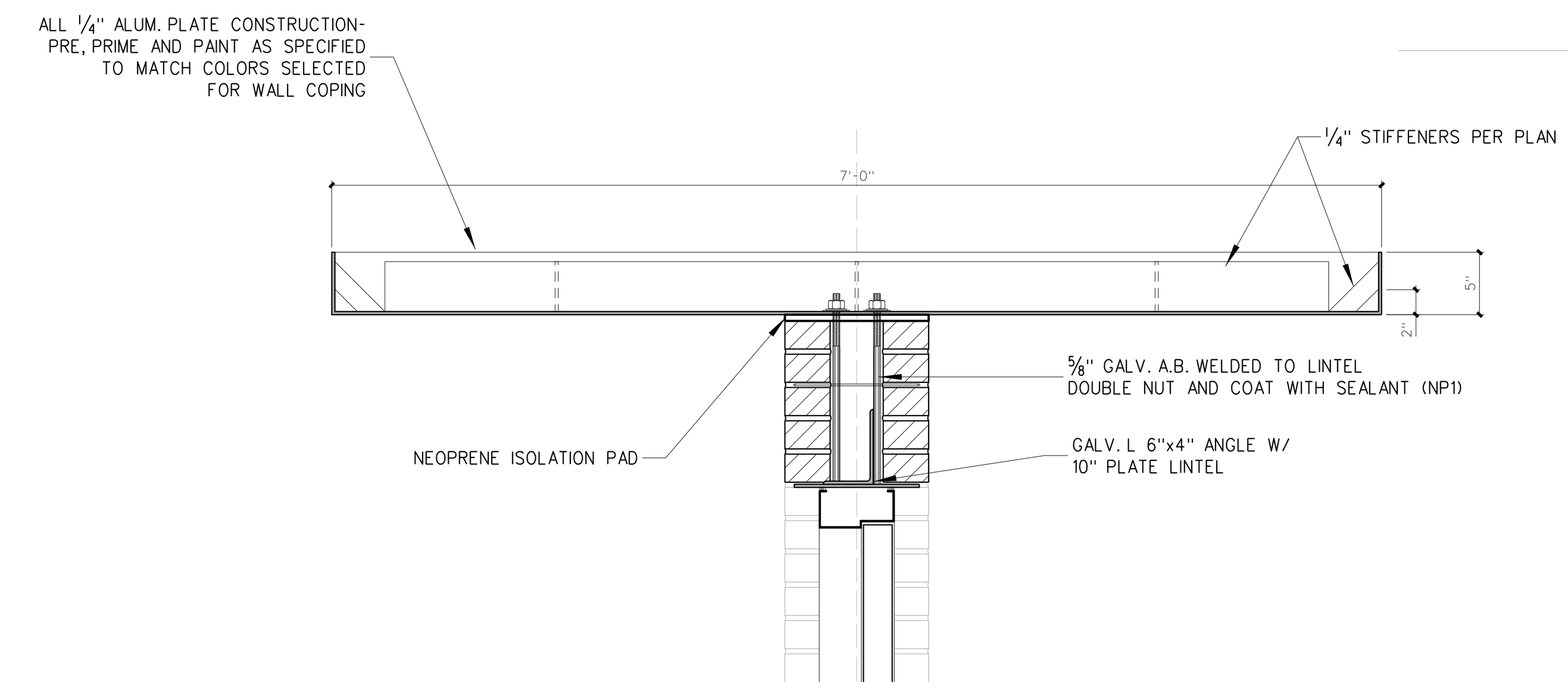
PLAN



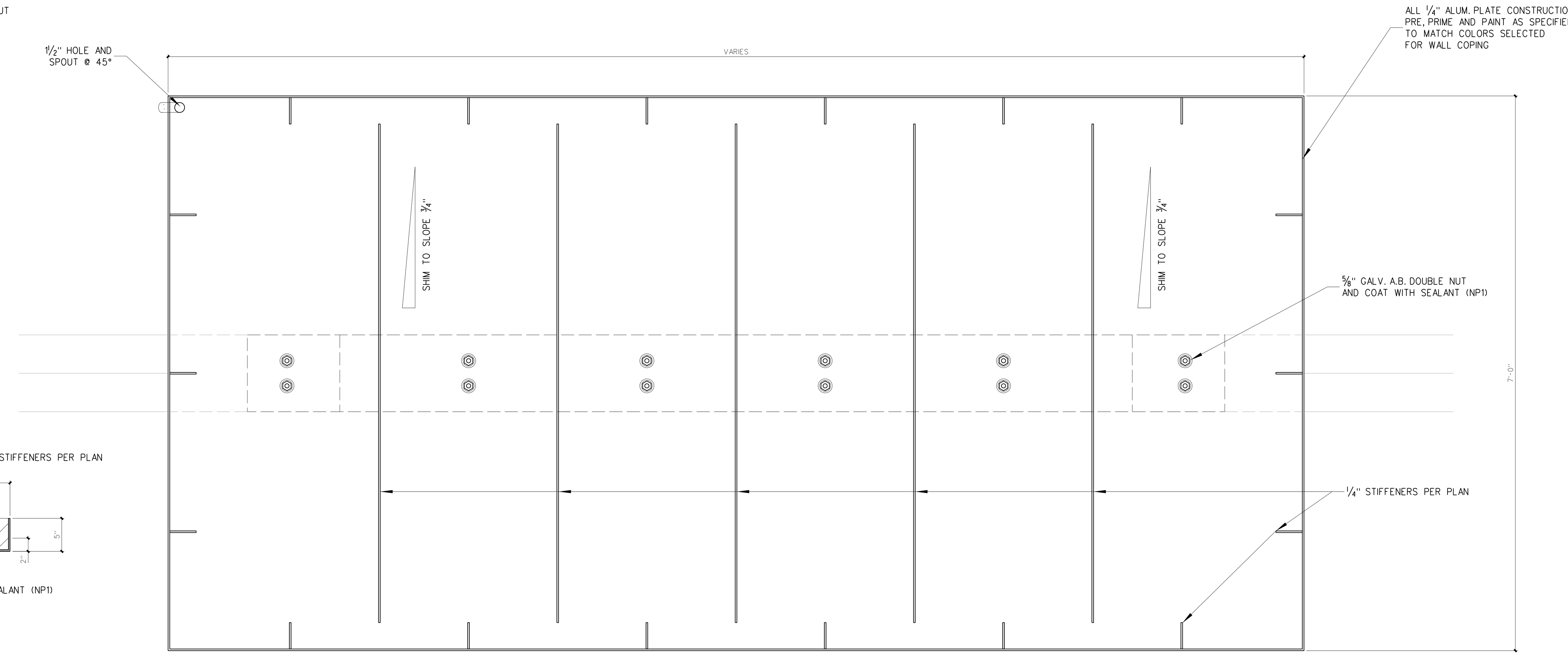
ELEVATION

TYPICAL CONSTRUCTION JOINT

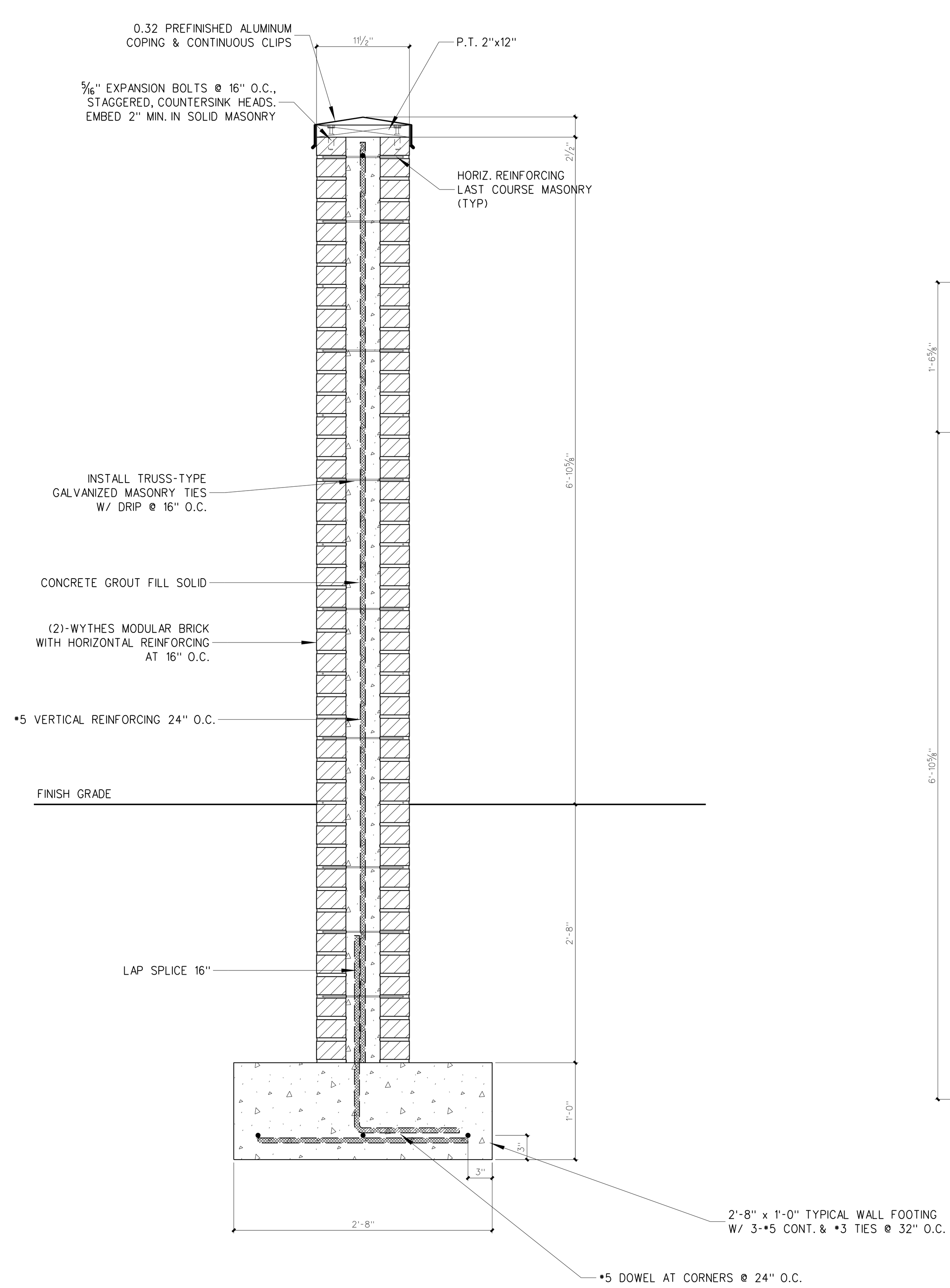
917.5 MASONRY JOINT DETAIL
SCALE: 3/4" = 1'-0"



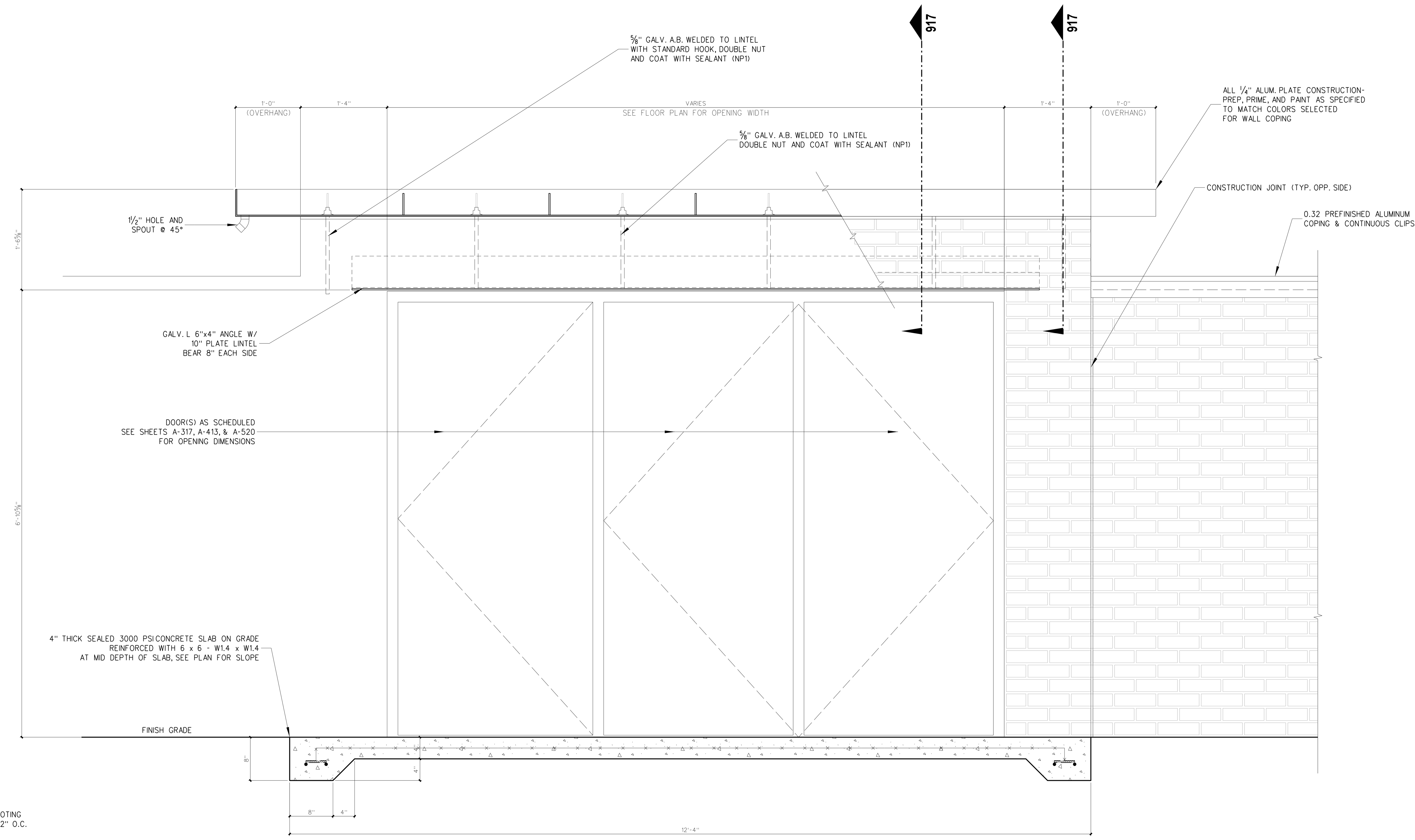
917.4 SCREEN WALL SECTION AT DOOR
SCALE: 1" = 1'-0"



917.3 PLAN VIEW METAL ROOF DETAIL AT DOOR
SCALE: 1" = 1'-0"



917.2 TYPICAL BRICK MASONRY SCREEN WALL
SCALE: 1" = 1'-0"



917.1 ELEVATION METAL ROOF DETAIL AT DOOR
SCALE: 1" = 1'-0"

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Project No. 22303

Date: 10 August 2024

Drawing no.

A 917

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

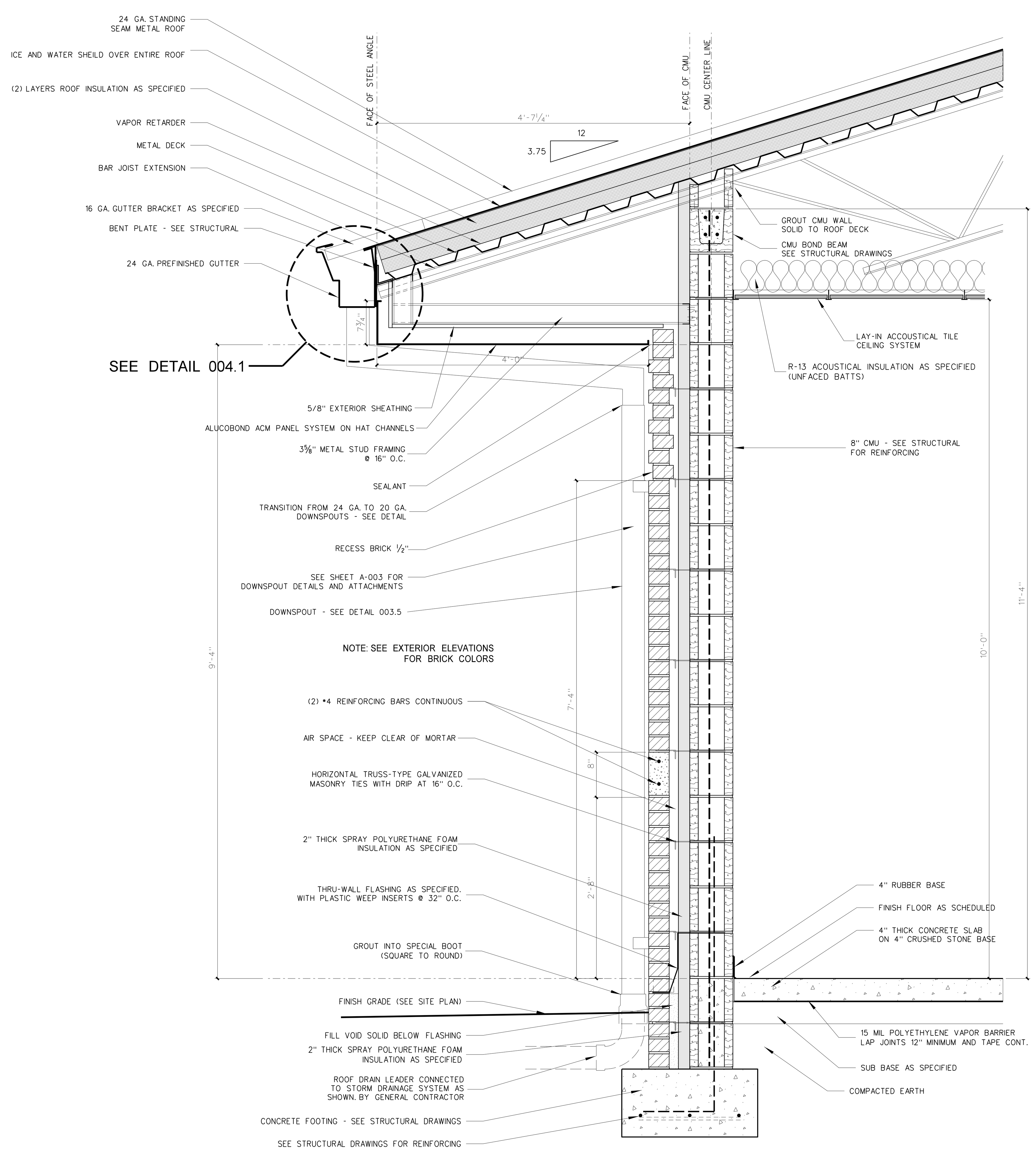
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD // METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

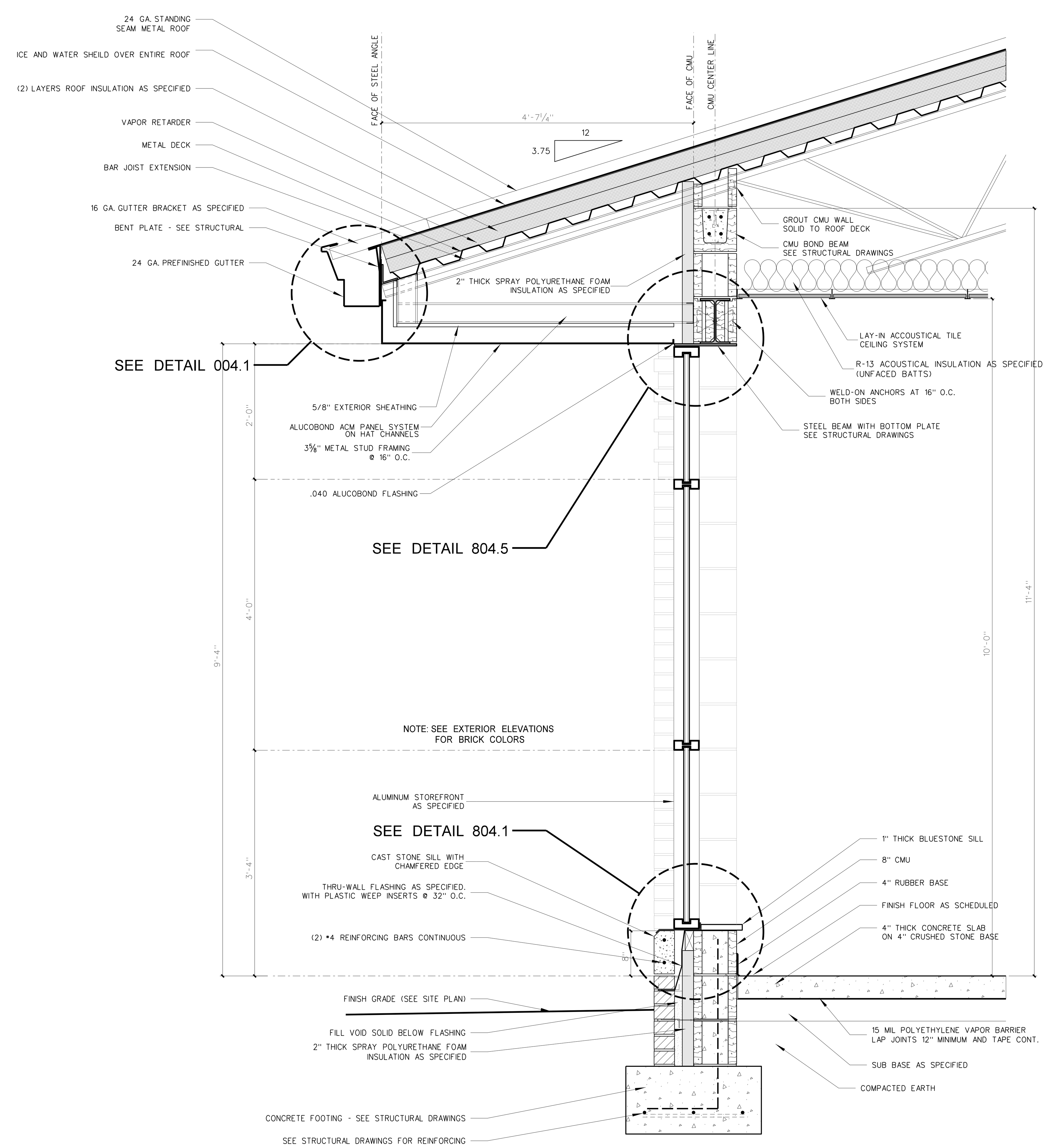
(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSULATION JOINTS, BOTH LAYER. LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



918.2 TYPICAL WALL SECTION
SCALE: 1" = 1'-0"



918.1 TYPICAL WALL SECTION @ STOREFRONT WINDOW
SCALE: 1" = 1'-0"

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HITE ASSOCIATES, P.C. 418 GREENVILLE

JAMES GRAY HITE ARCHITECT GREENVILLE

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Winfall Boulevard / Winfall / North Carolina / 27944

Project No. 22303

Date: 10 August 2024

Drawing no. A 918

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

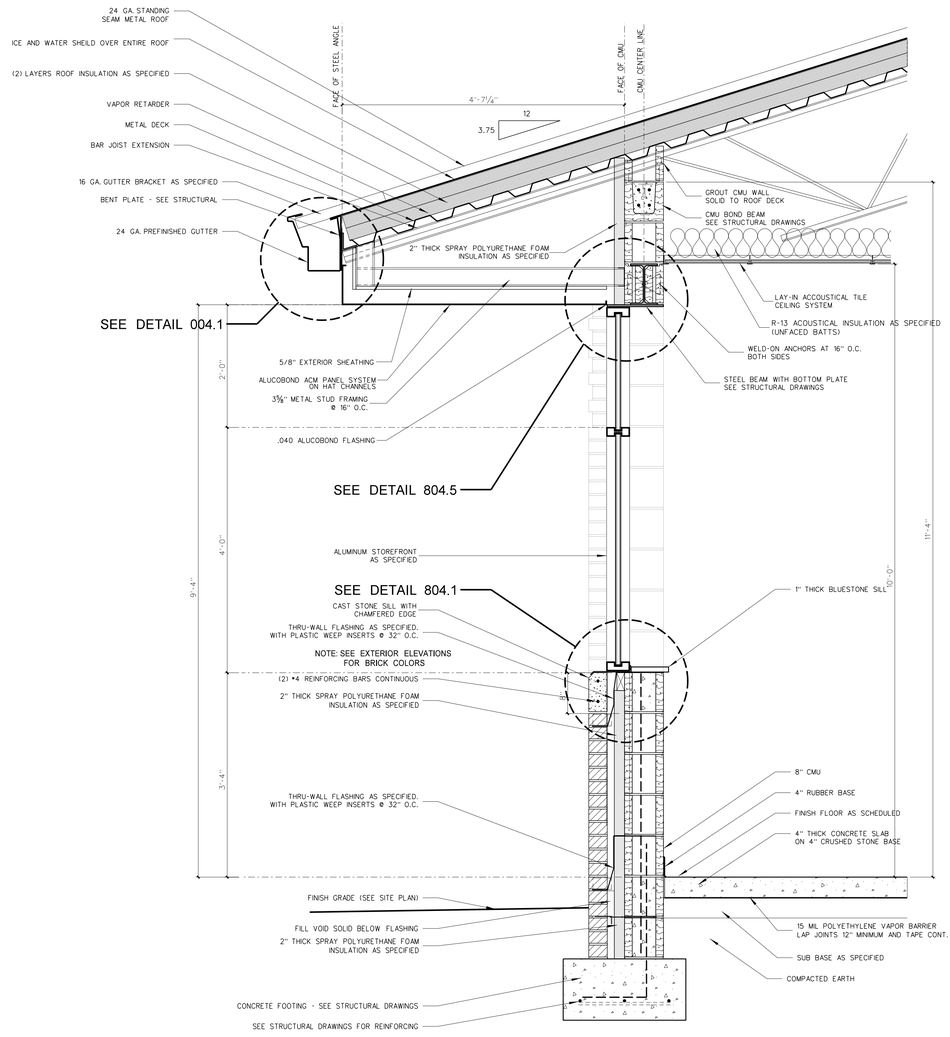
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

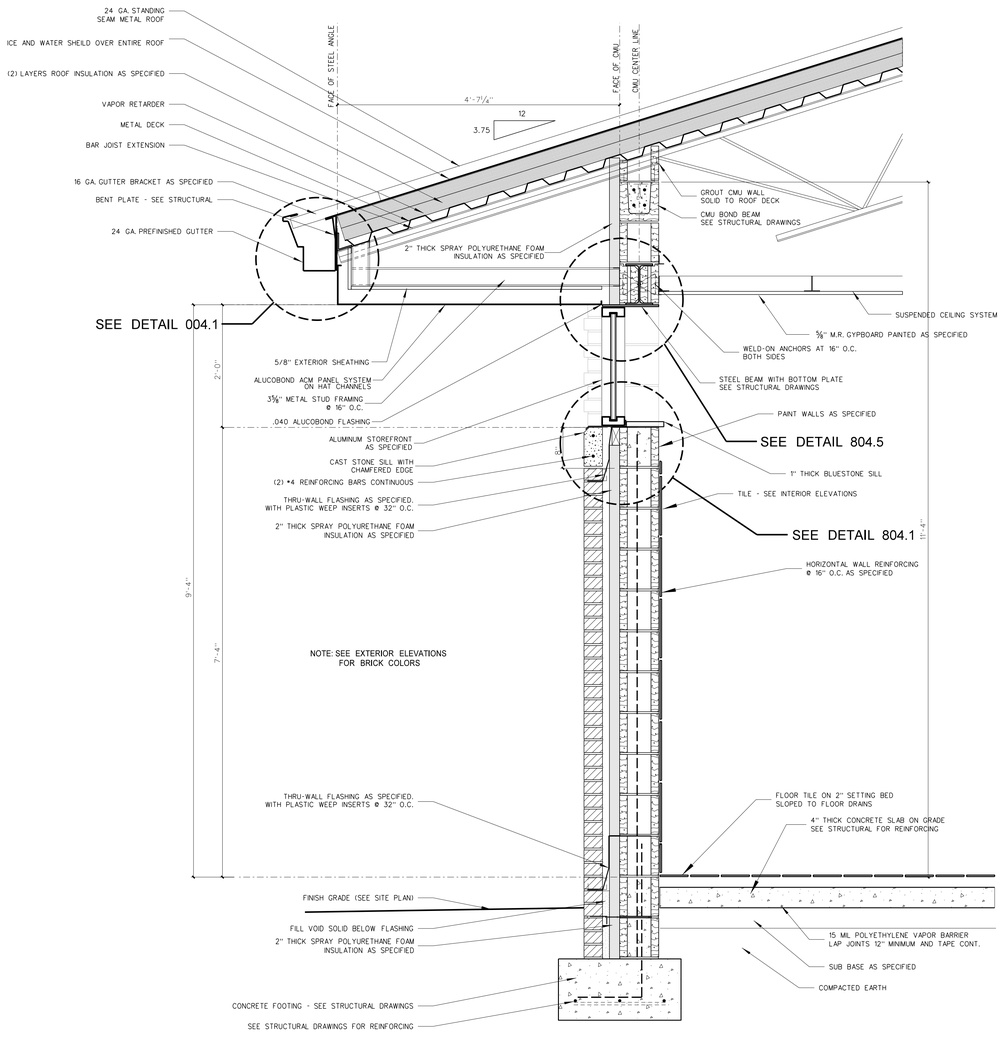
(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSULATION JOINTS, BOTH LAYER, LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



919.2 TYPICAL WALL SECTION @ STOREFRONT WINDOW
SCALE: 1" = 1'-0"



919.1 TYPICAL WALL SECTION @ STOREFRONT WINDOW
SCALE: 1" = 1'-0"

No.	Date:	Revision

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HITE ASSOCIATES, P.C. ARCHITECTURAL CIVIL CORPORATION REGISTERED LICENSE NUMBER C-1218 STATE OF NORTH CAROLINA GREENVILLE

JAMES GRAY HITE REGISTERED ARCHITECT 4718 STATE OF NORTH CAROLINA GREENVILLE

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Project No. 22303

Date: 10 August 2024

Drawing no. A 919

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

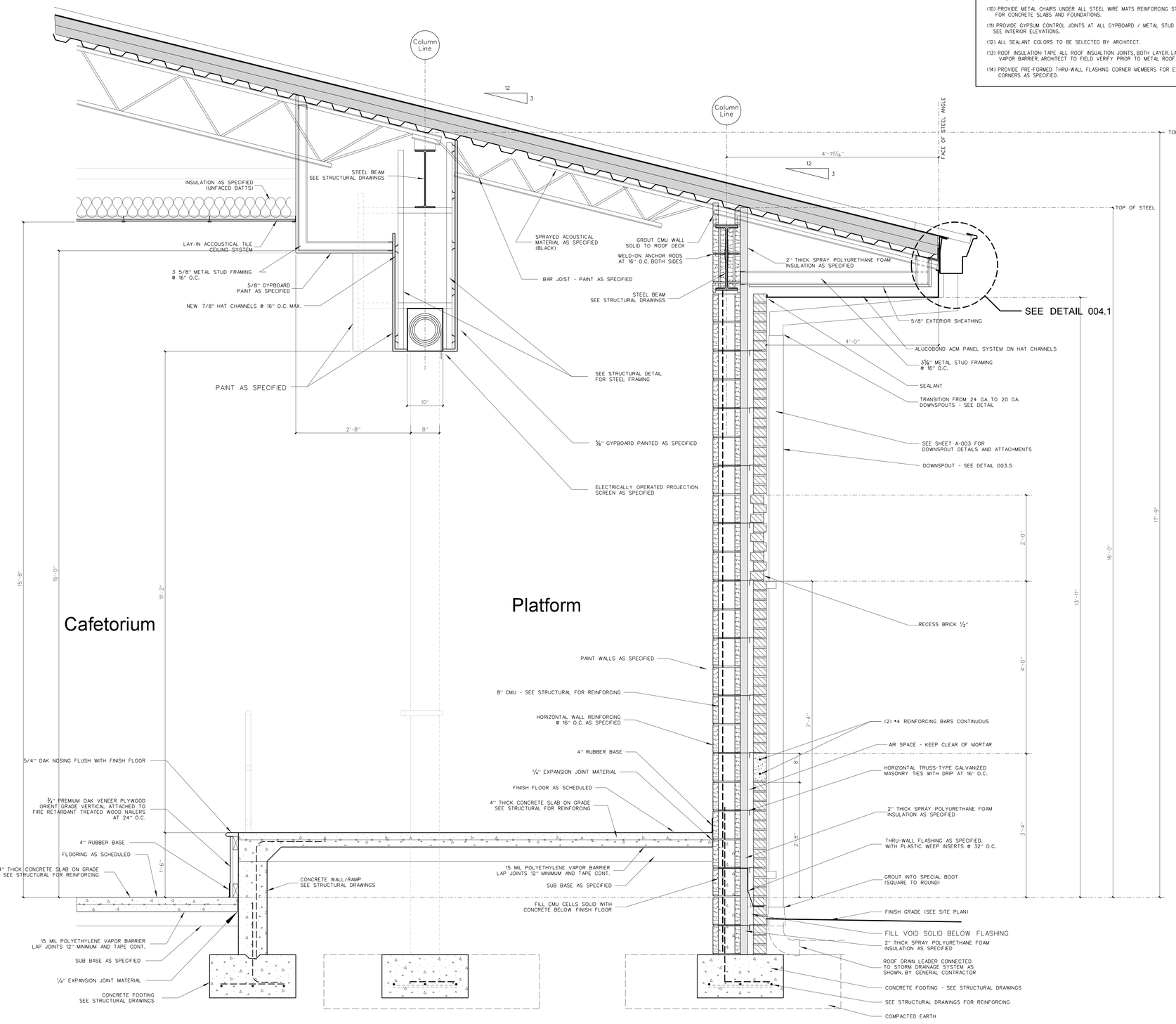
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSULATION JOINTS, BOTH LAYER, LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



920.1 WALL SECTION AT CAFETORIUM PLATFORM

SCALE: 1" = 1'-0"

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HITE ASSOCIATES, P.C. ARCHITECTURAL CORPORATION NORTH CAROLINA LICENSE NUMBER C-418 GREENVILLE

JAMES GRAY HITE REGISTERED ARCHITECT 4418 NORTH CAROLINA GREENVILLE

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Project No. 22303
Date: 10 August 2024
Drawing no. A 920

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

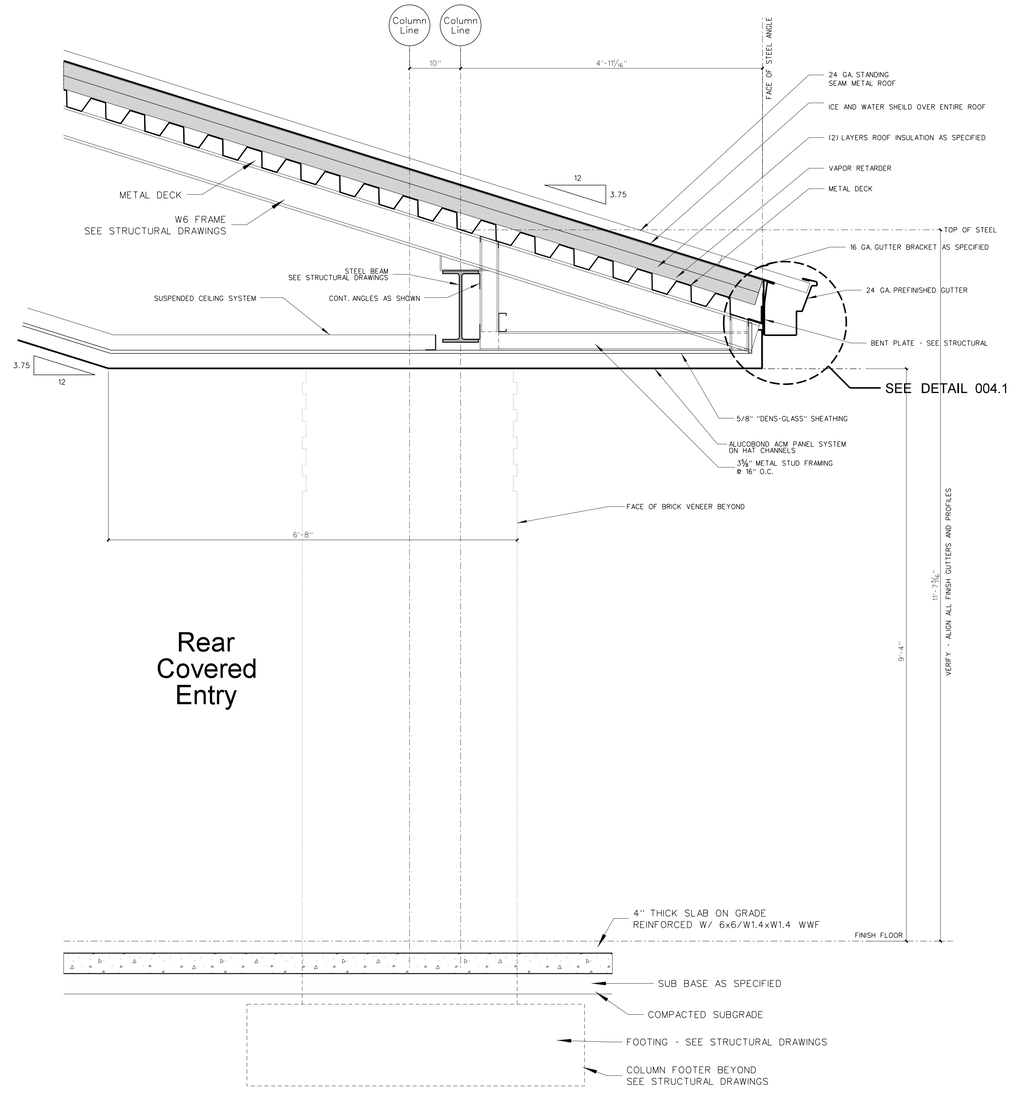
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSUALTION JOINTS, BOTH LAYER, LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



921.1 WALL SECTION AT COVERED ENTRY
SCALE: 1" = 1'-0"

No.	Date:	Revision

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HITE ASSOCIATES, P.C. — CERTIFICATE OF AUTHORIZATION NUMBER C-418 — GREENVILLE

JAMES GRAY HITE — REGISTERED ARCHITECT — NUMBER 4418 — GREENVILLE

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Project No.
22303

Date:
10 August 2024

Drawing no.
A
921

General Notes for Wall Sections

(1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR.

(2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY.

(3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING.

(4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS.

(5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE.

(6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE.

(7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS.

(8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS.

(9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS.

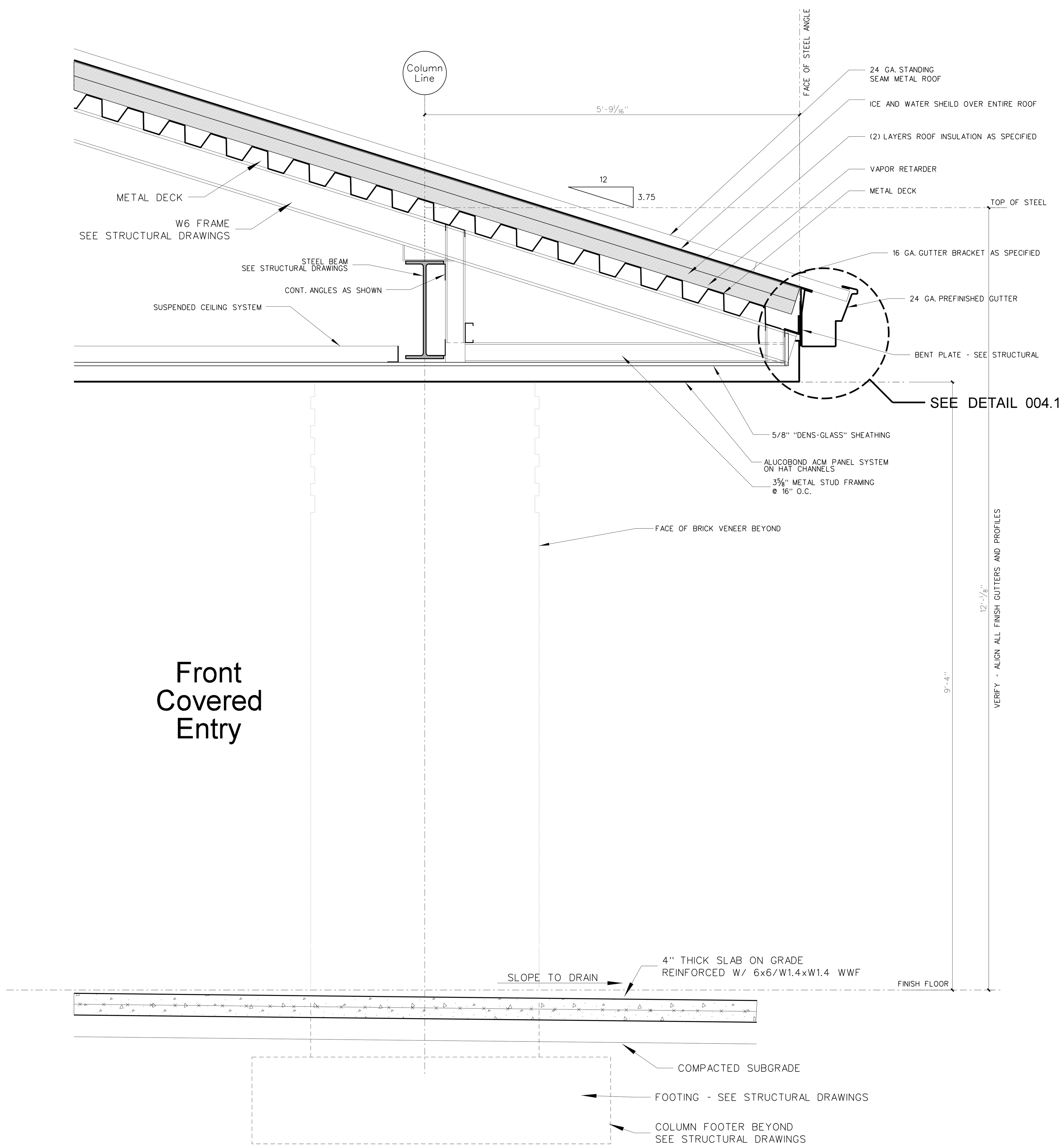
(10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS.

(11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS.

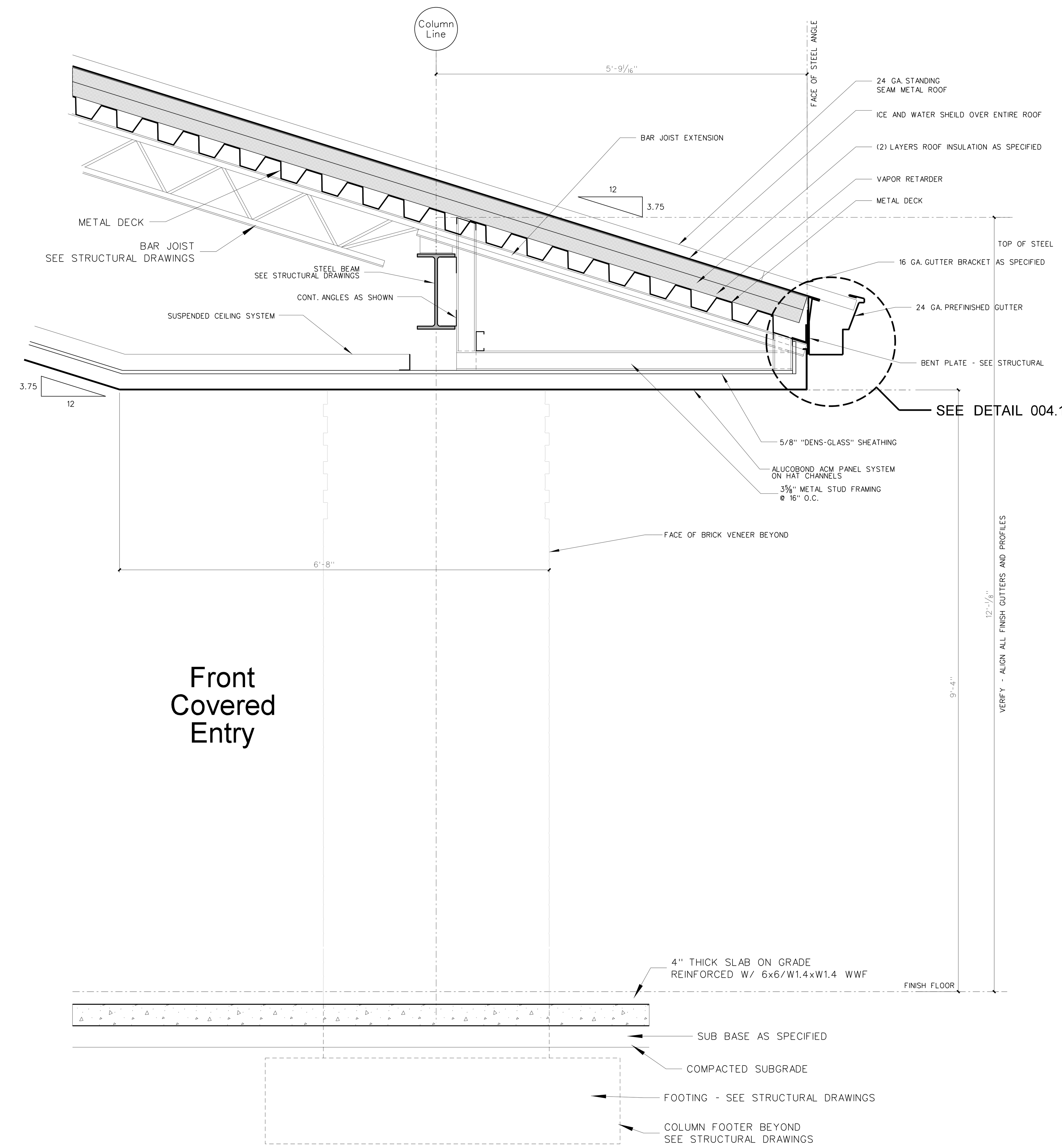
(12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT.

(13) ROOF INSULATION: TAPE ALL ROOF INSUALTION JOINTS, BOTH LAYER. LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION.

(14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



922.2 WALL SECTION AT FRONT COVERED ENTRY
SCALE: 1" = 1'-0"



922.1 WALL SECTION AT FRONT COVERED ENTRY
SCALE: 1" = 1'-0"

No. Date: Revision

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Project No. 22303
Date: 10 August 2024
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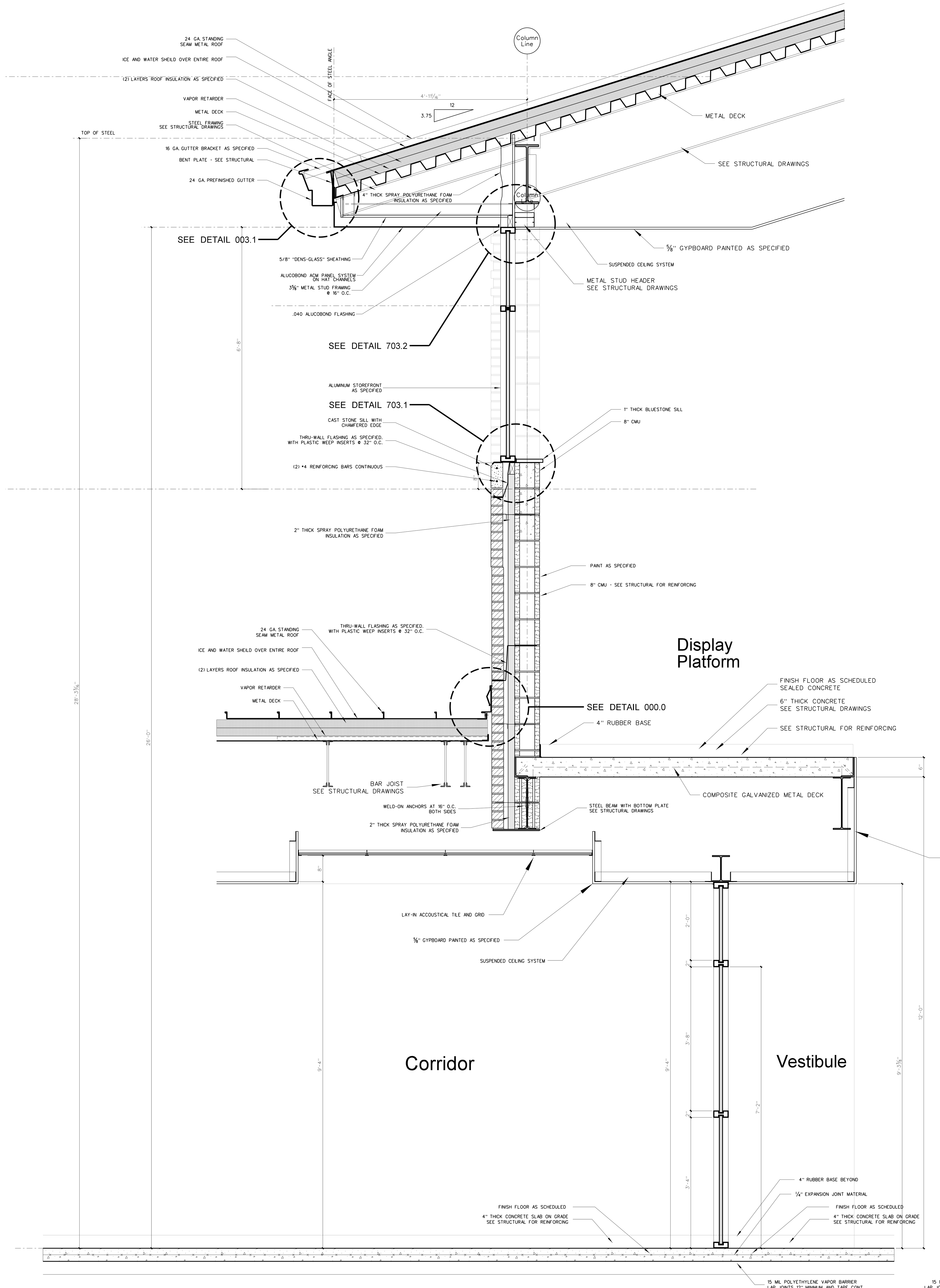
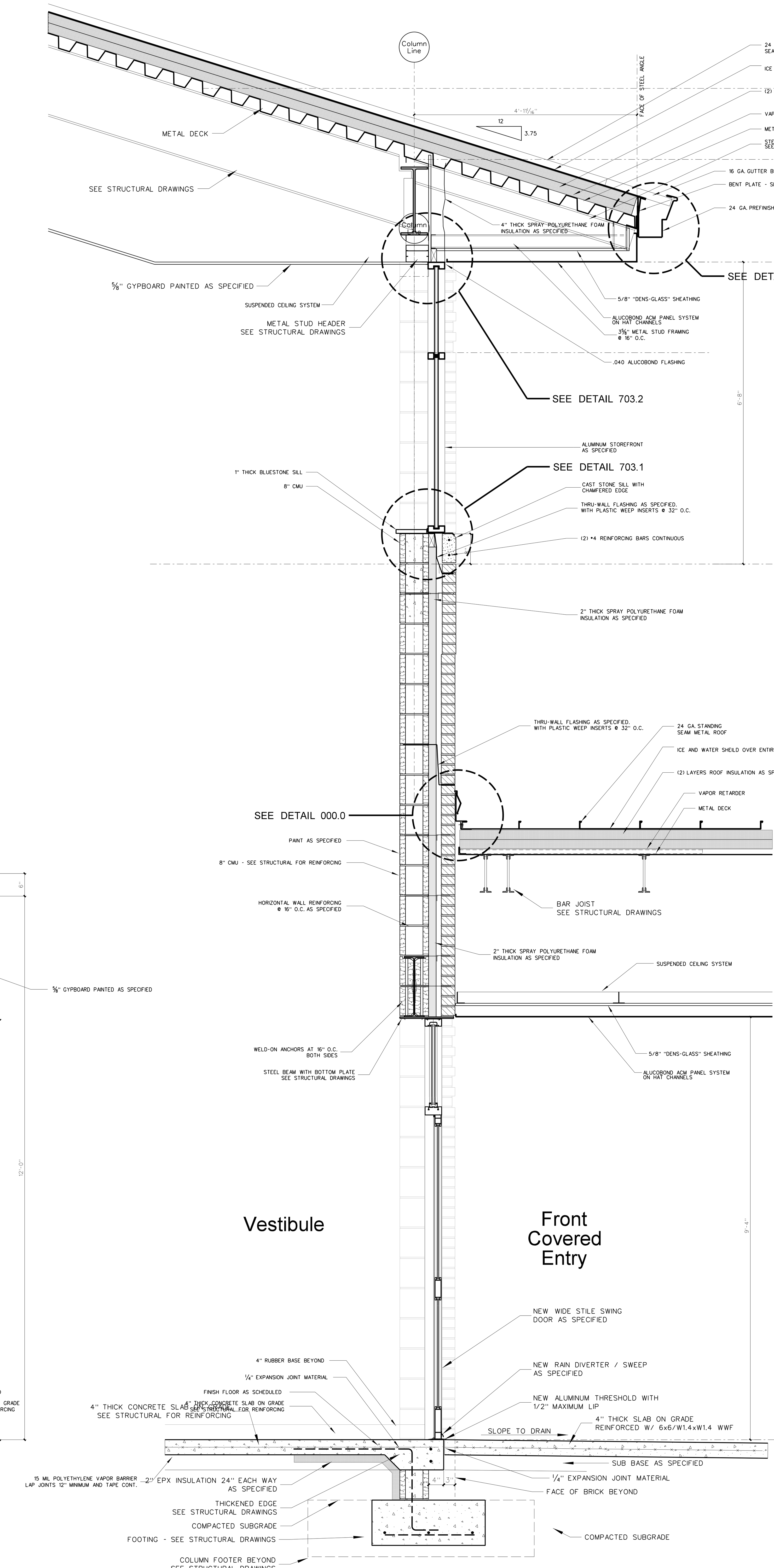


923.2 WALL SECTION AT FRONT ENTRY
SCALE: 3/4" = 1'-0"



923.1 WALL SECTION AT FRONT ENTRY
SCALE: 3/4" = 1'-0"

No. Date: Revision

Hite associates
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HITE ASSOCIATES, P.C. 418 GREENVILLE
JAMES GRAY HITE ARCHITECT GREENVILLE

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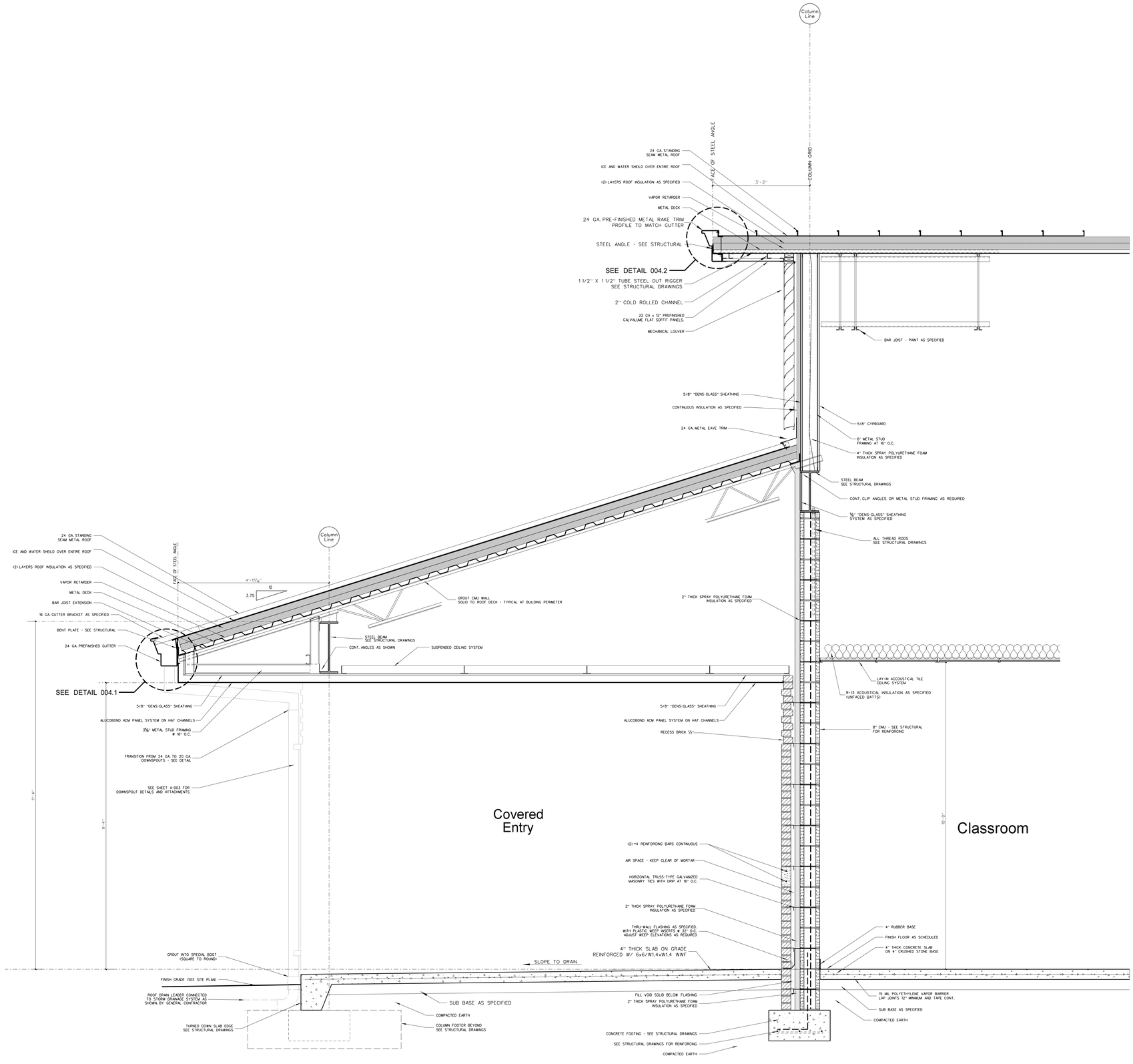
Project No. 22303
Date: 10 August 2024
Drawing no. A 923



924.1 RAKE WALL SECTION
SCALE: 3/4" = 1'-0"

No.	Date:	Revision

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HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — REGISTERED — LICENSE NUMBER C-418 — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED ARCHITECT — LICENSE NUMBER 4744 — STATE OF NORTH CAROLINA — GREENVILLE, N.C.

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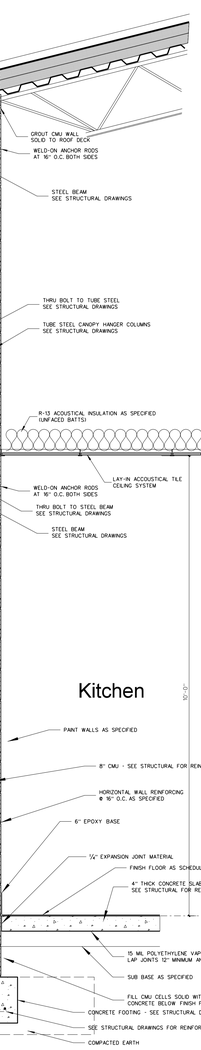
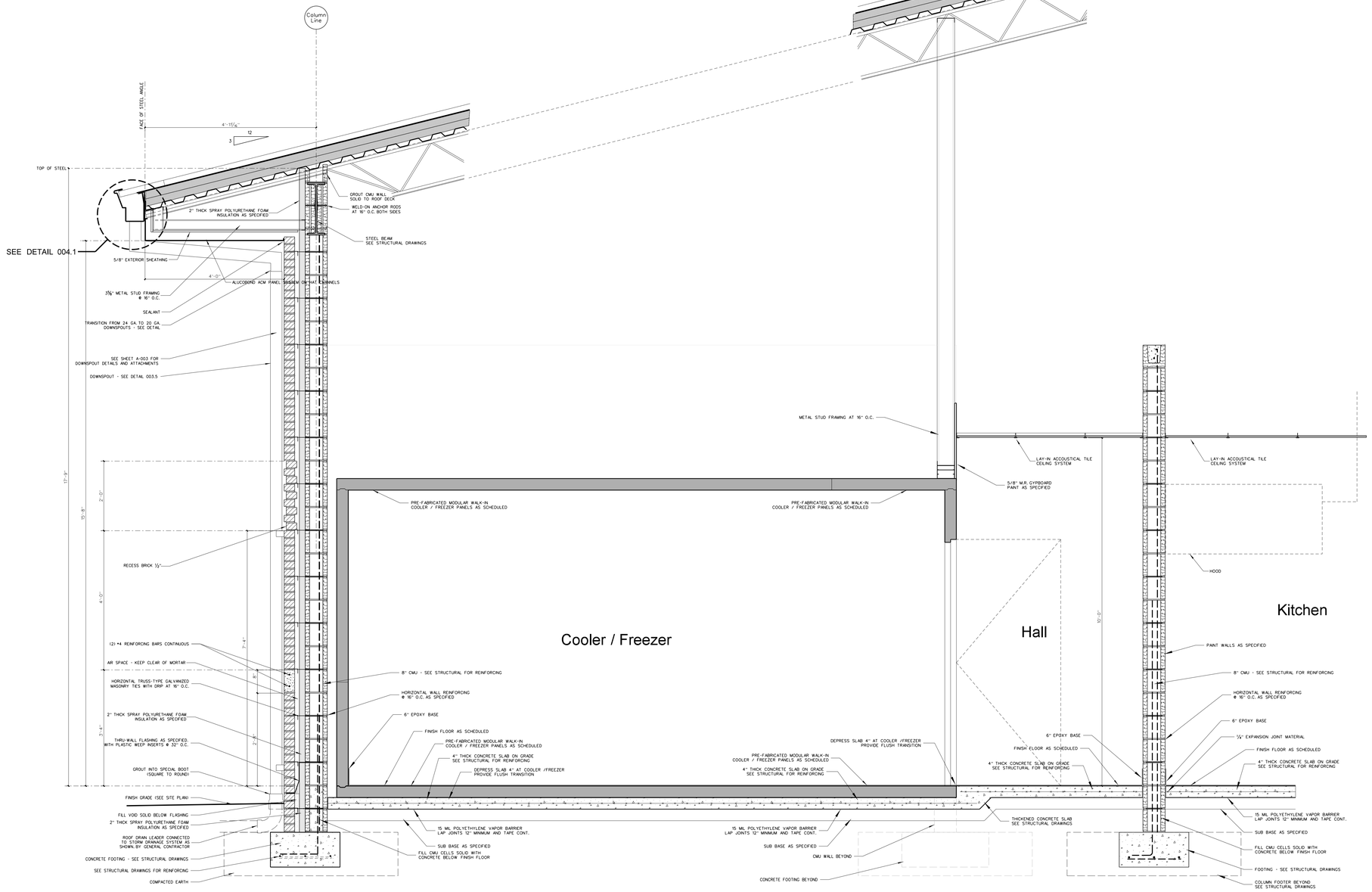
Project No.
22303

Date:
10 August 2024

Drawing no.
A
924





925.1 SECTION AT COOLER / FREEZER

SCALE: 3/4" = 1'-0"

No.	Date:	Revision

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HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — REGISTERED — LICENSE NUMBER 4118 — GREENVILLE, N.C.

JAMES GRAY HITE — REGISTERED — ARCHITECT — LICENSE NUMBER 3234 — GREENVILLE, N.C.

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PERQUIMANS COUNTY SCHOOLS

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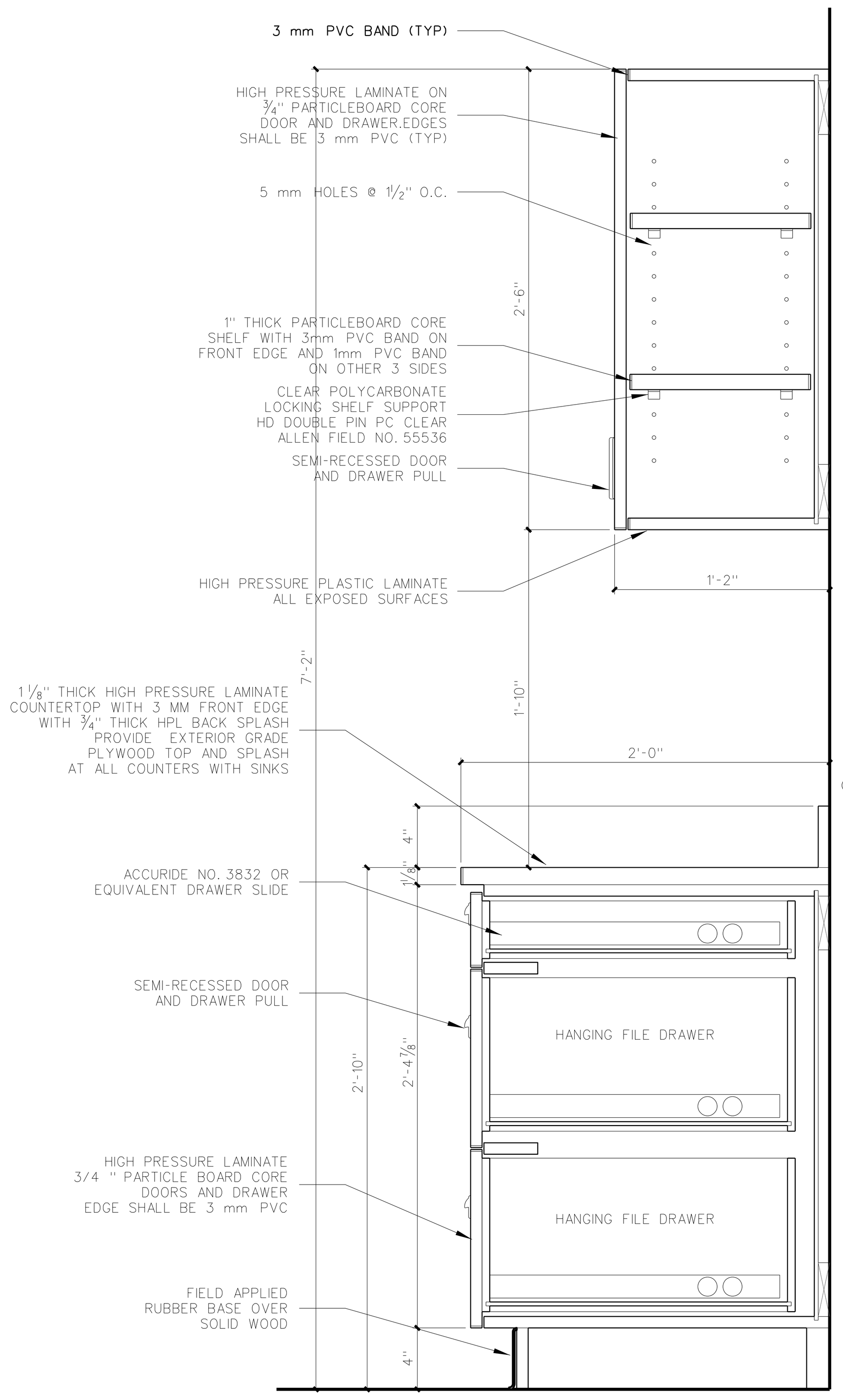
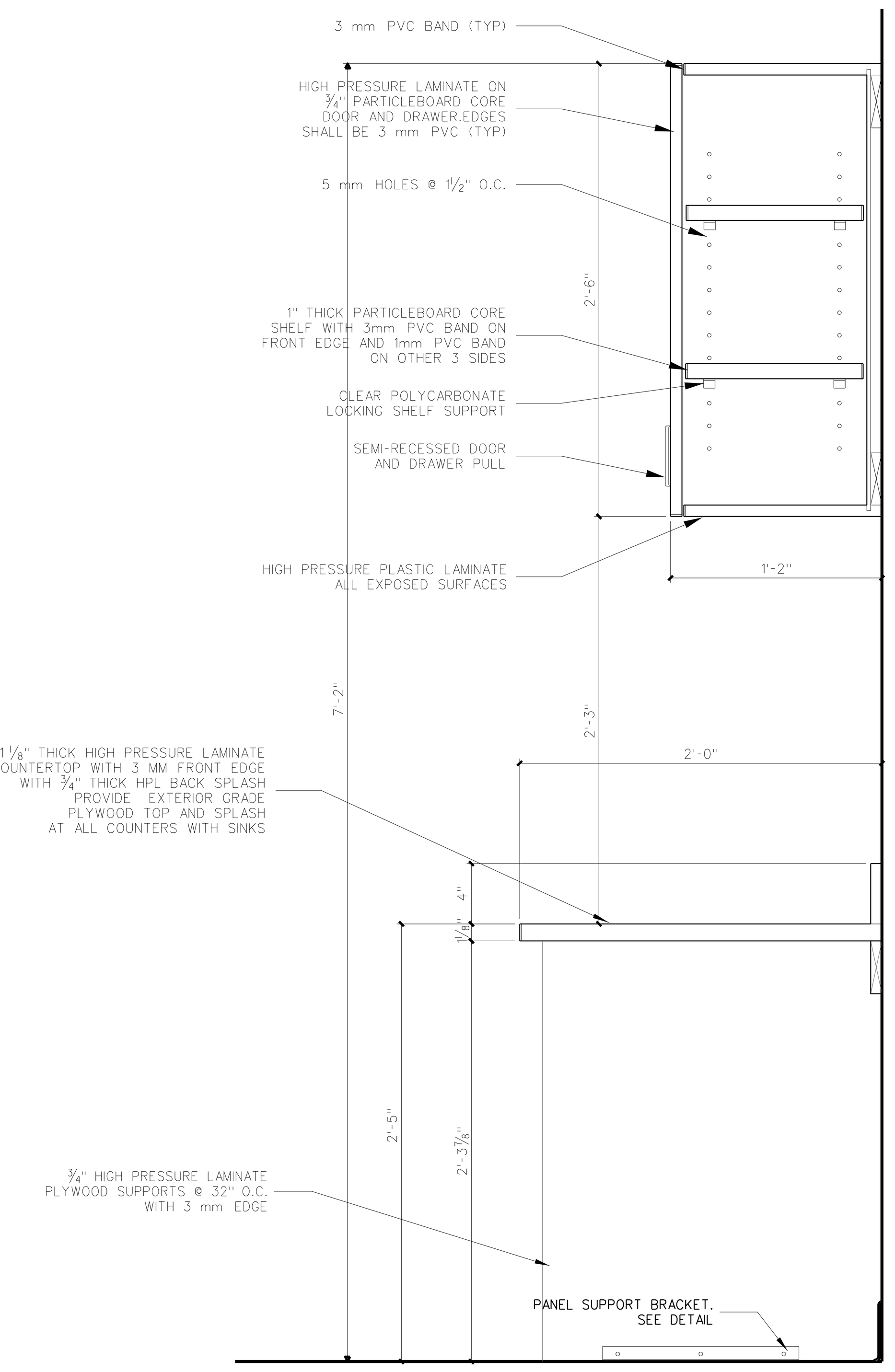
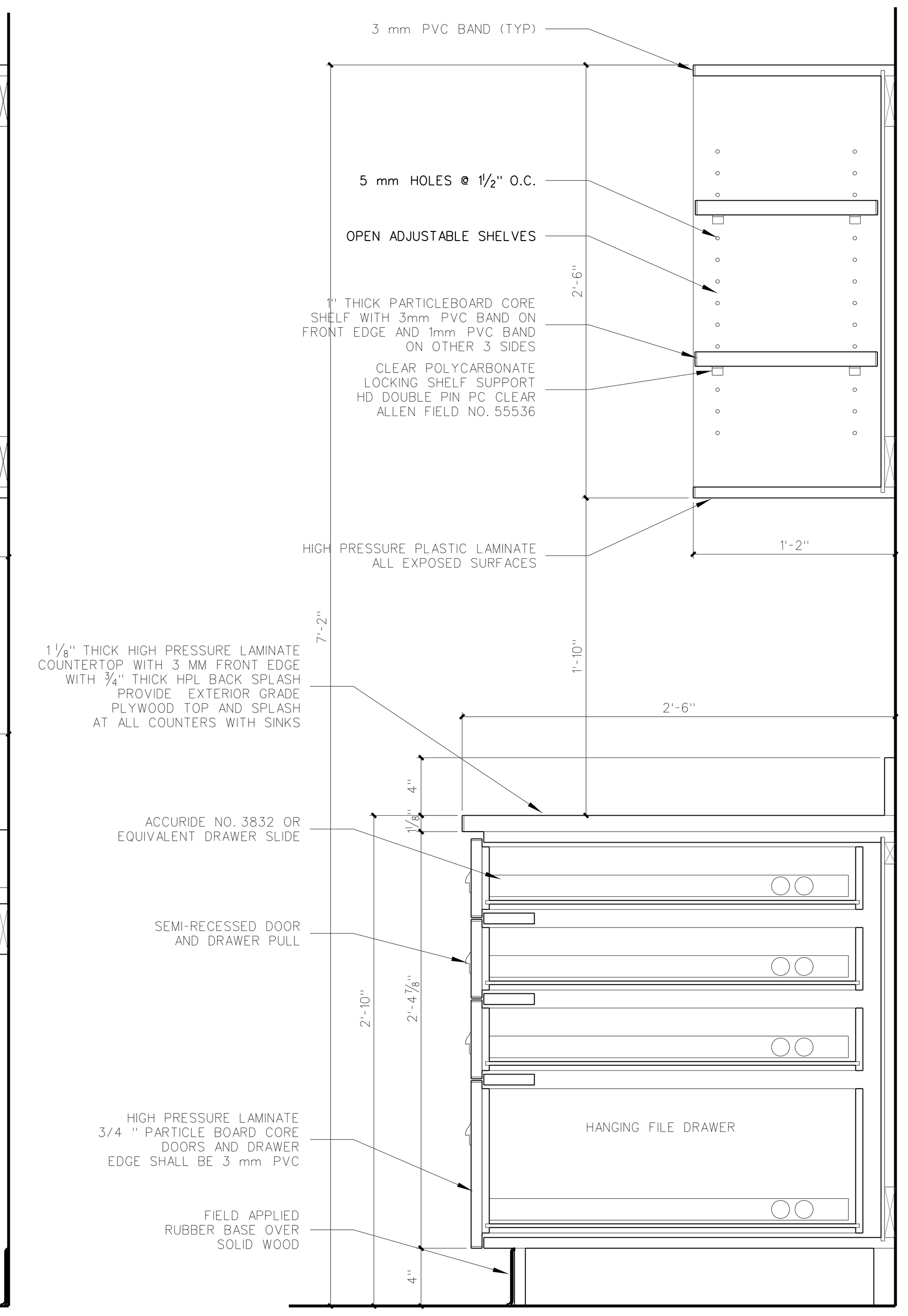
Project No.	22303
Date:	10 August 2024
Drawing no.	A 925



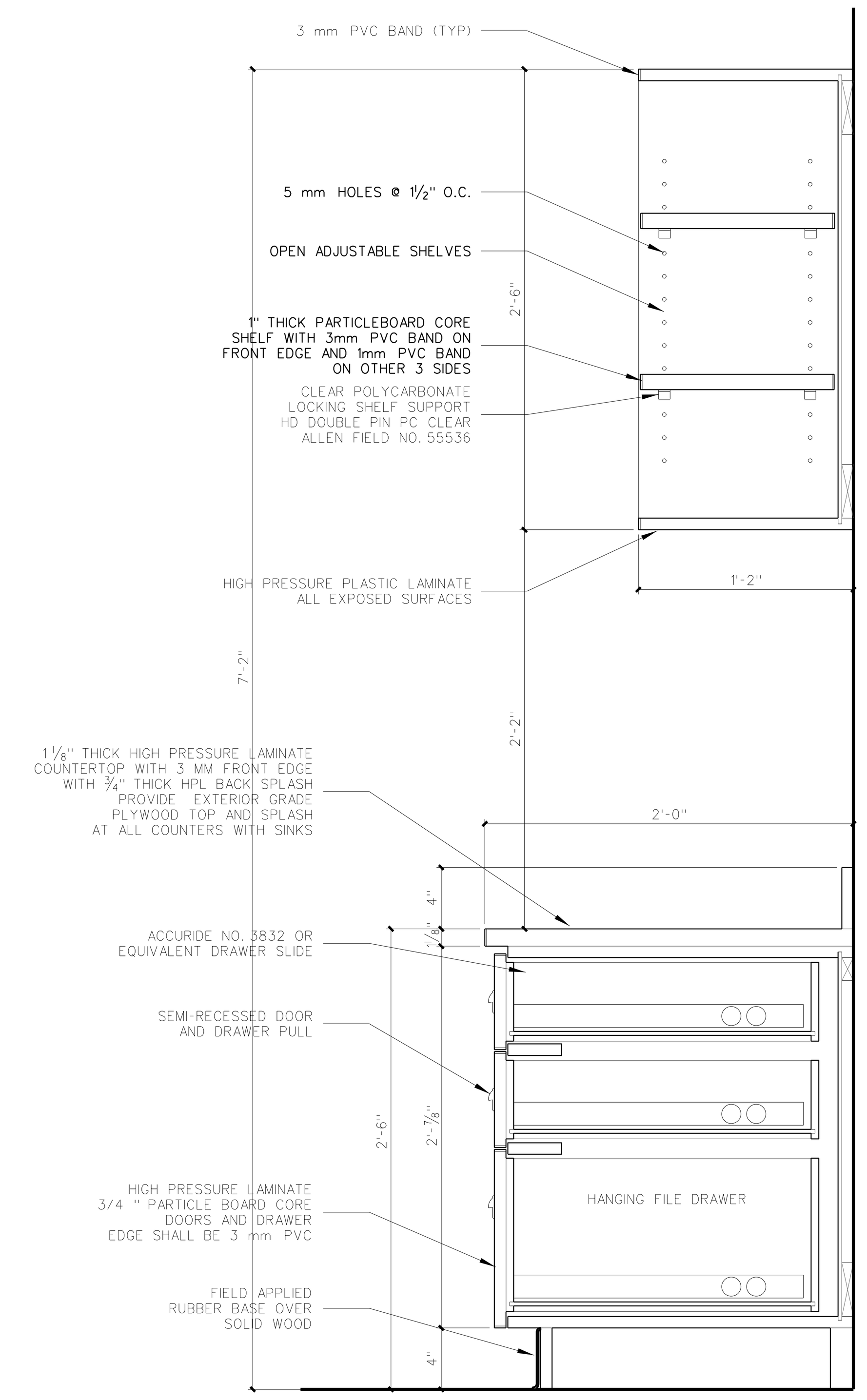
1001.10 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



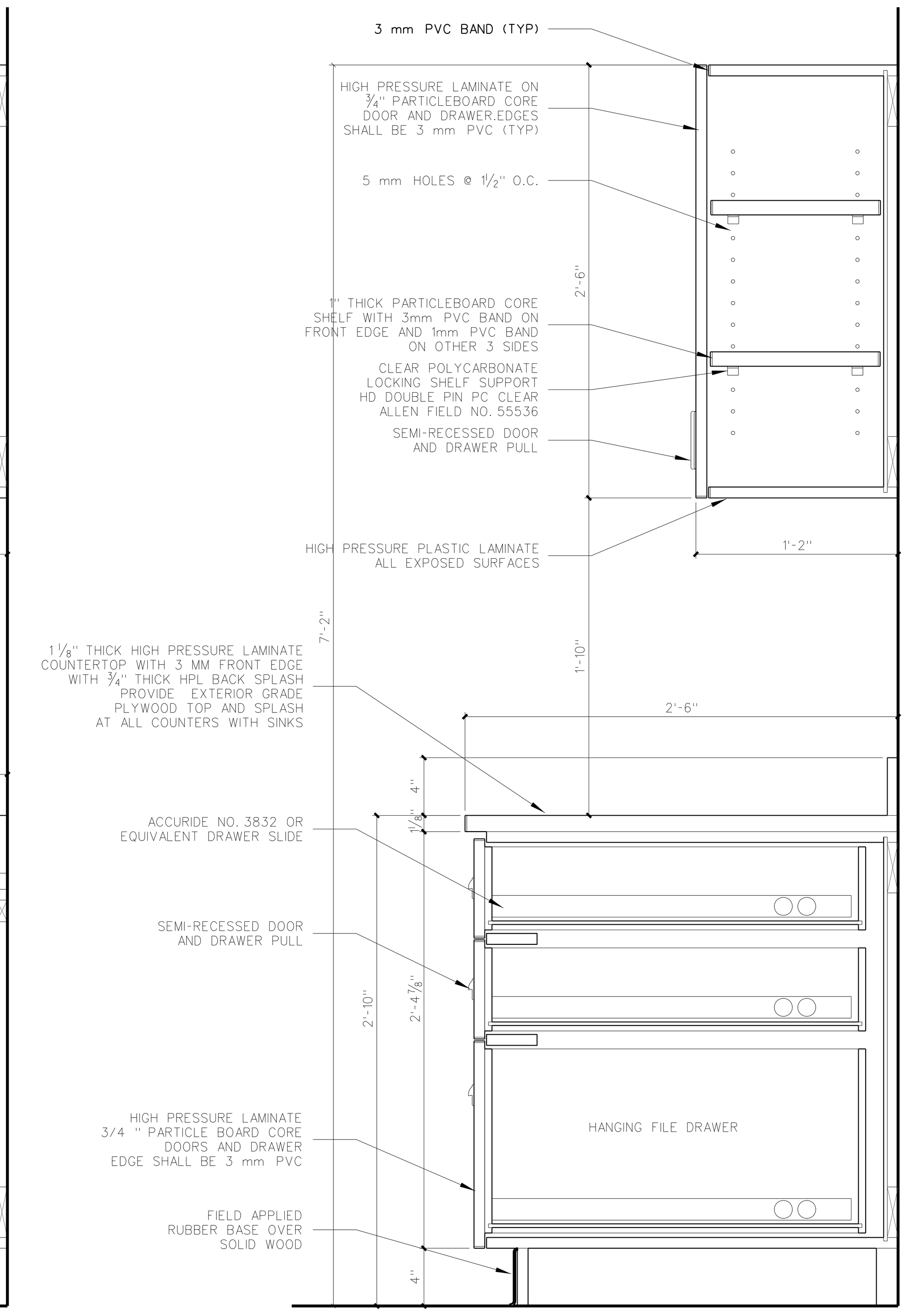
1001.9 NURSE'S STATION KNEE SPACE
SCALE: 1 1/2" = 1'-0"



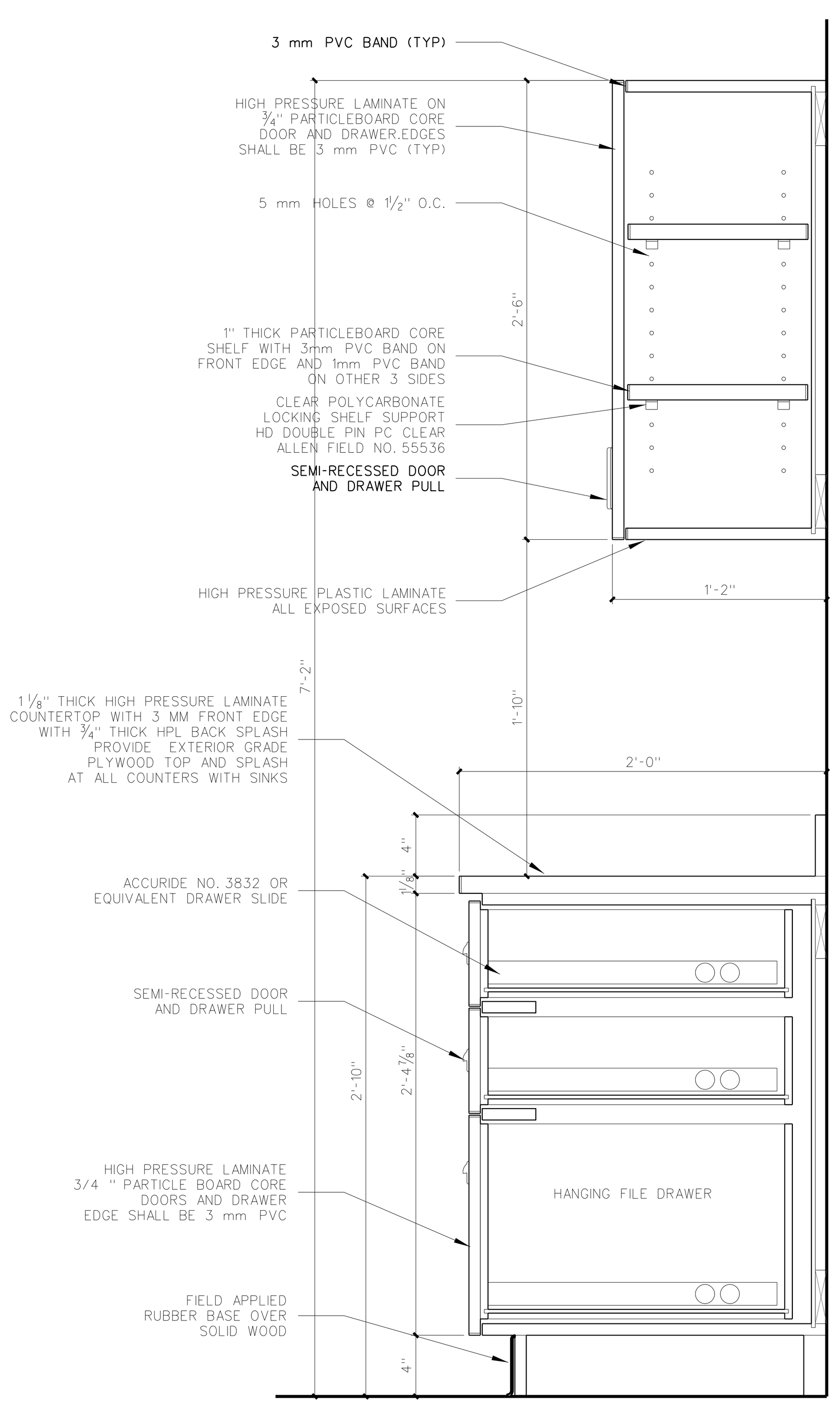
1001.8 34" BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



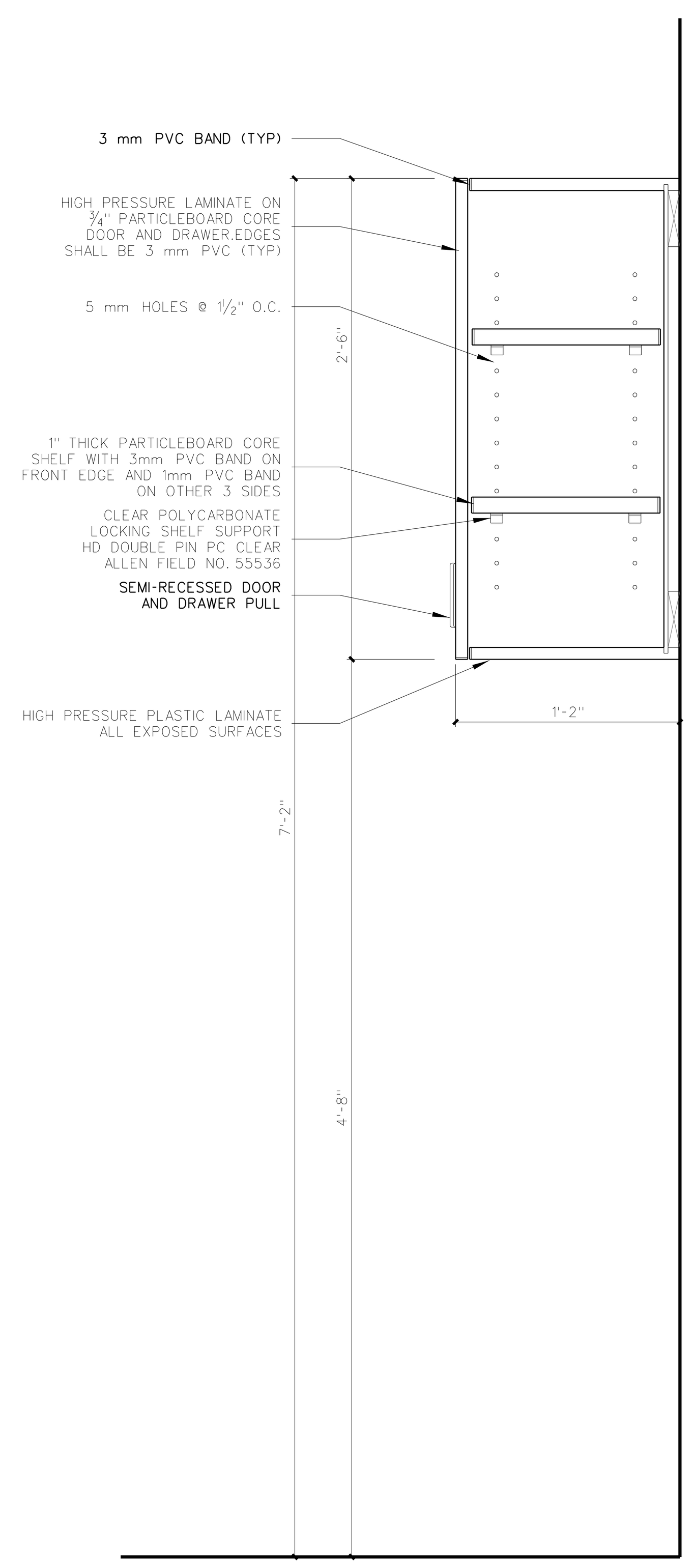
1001.7 30" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



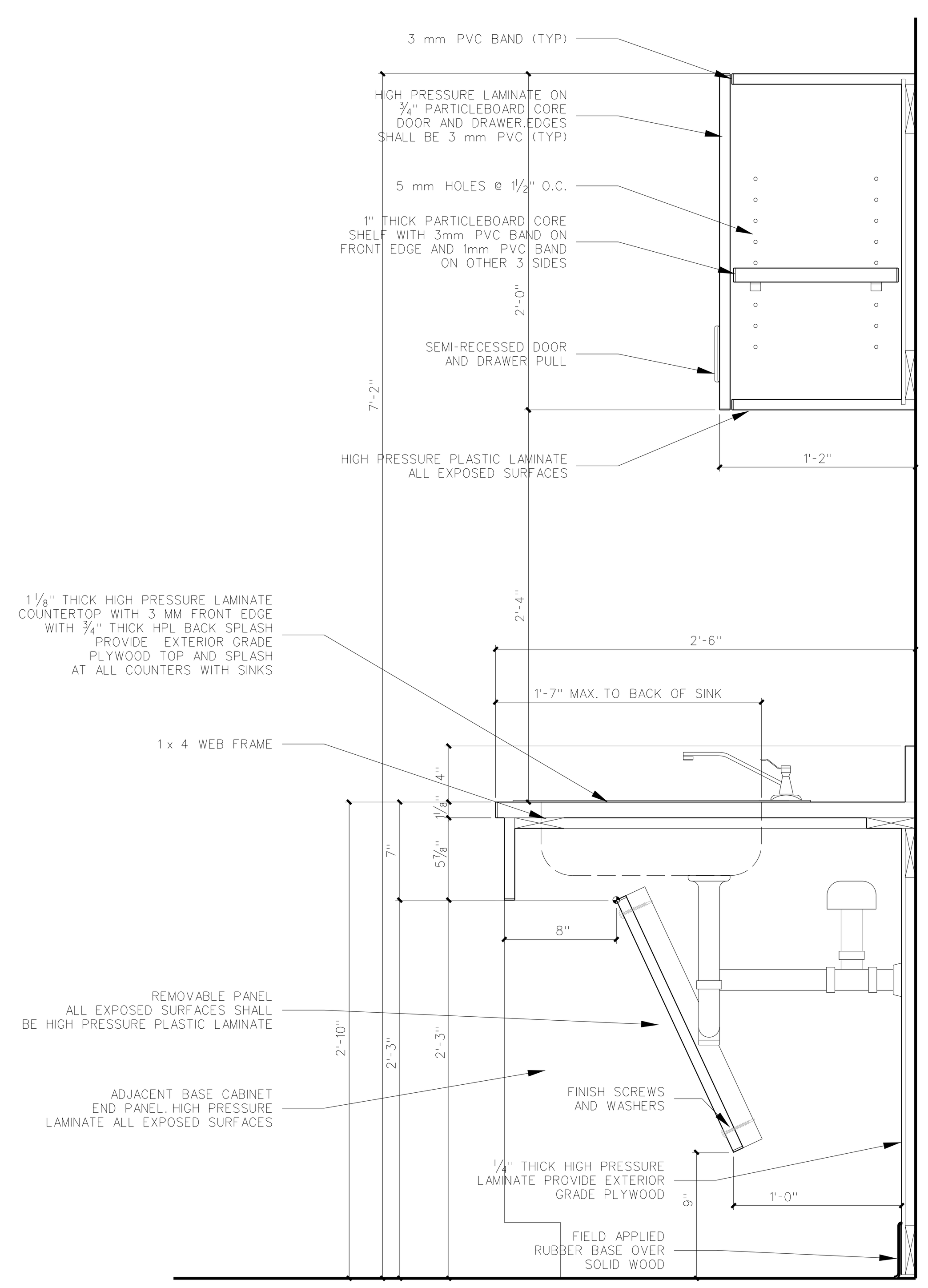
1001.6 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



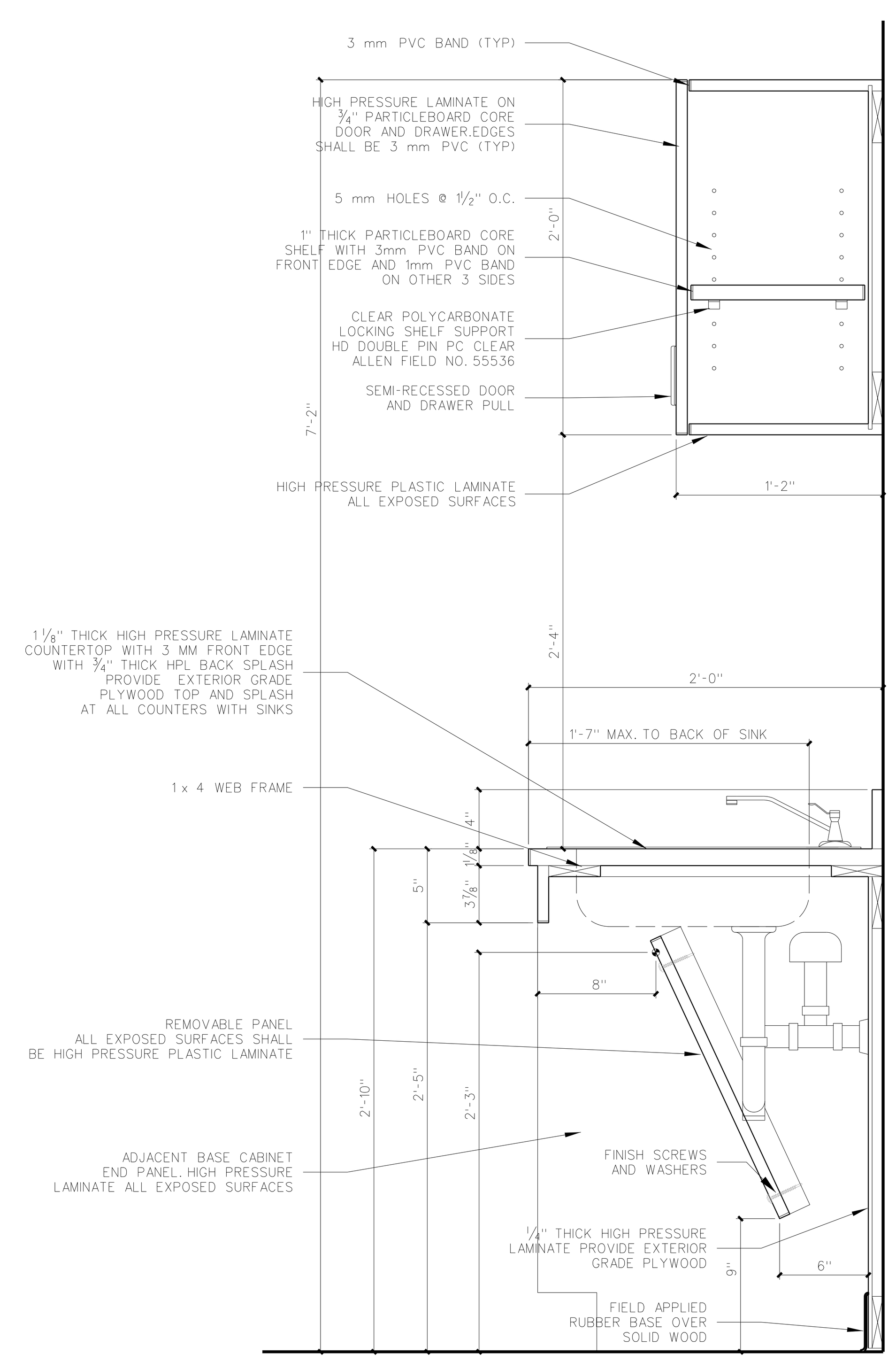
1001.5 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



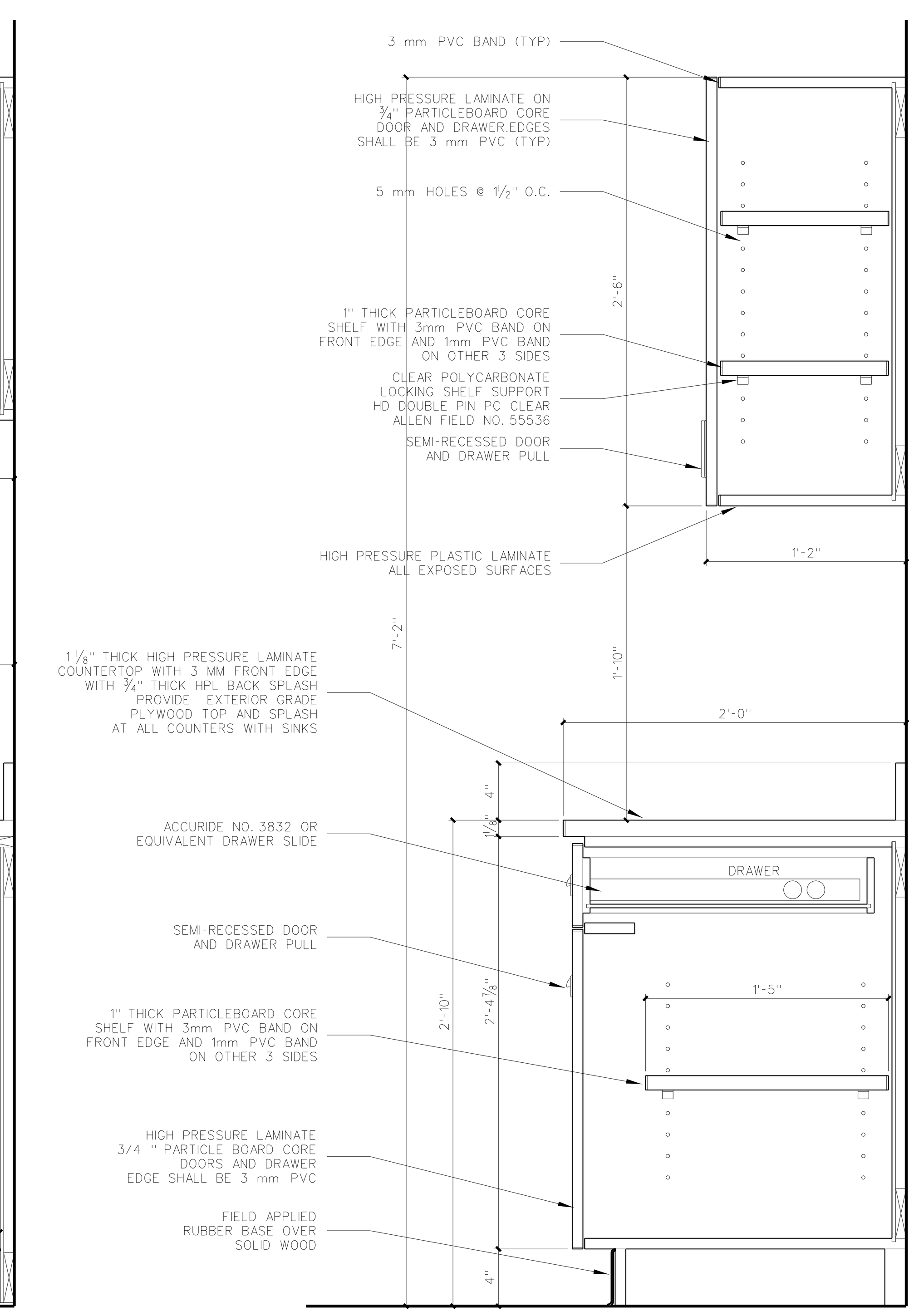
1001.4 WALL CABINET @ WASHER / DRYER
SCALE: 1 1/2" = 1'-0"



1001.3 34" H/C BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



1001.2 34" H/C BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



1001.1 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"

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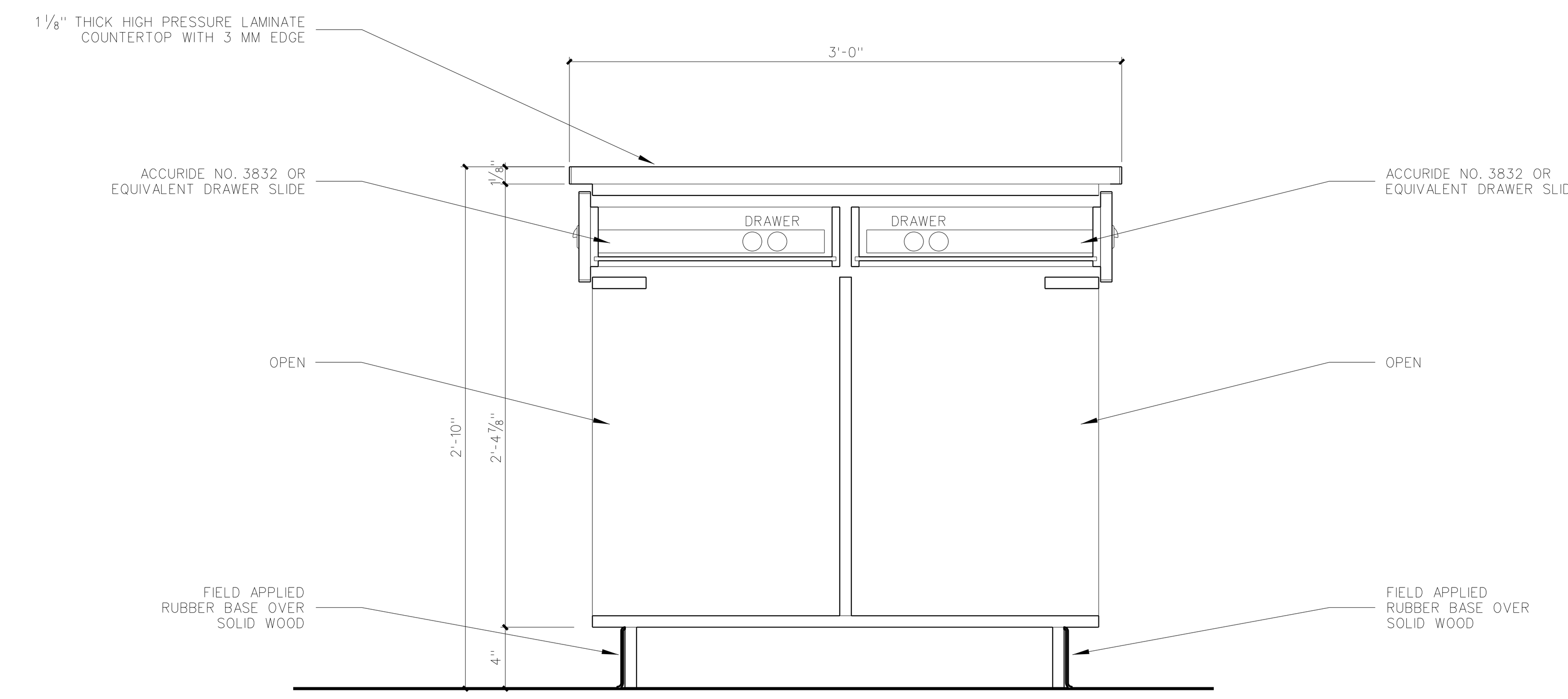
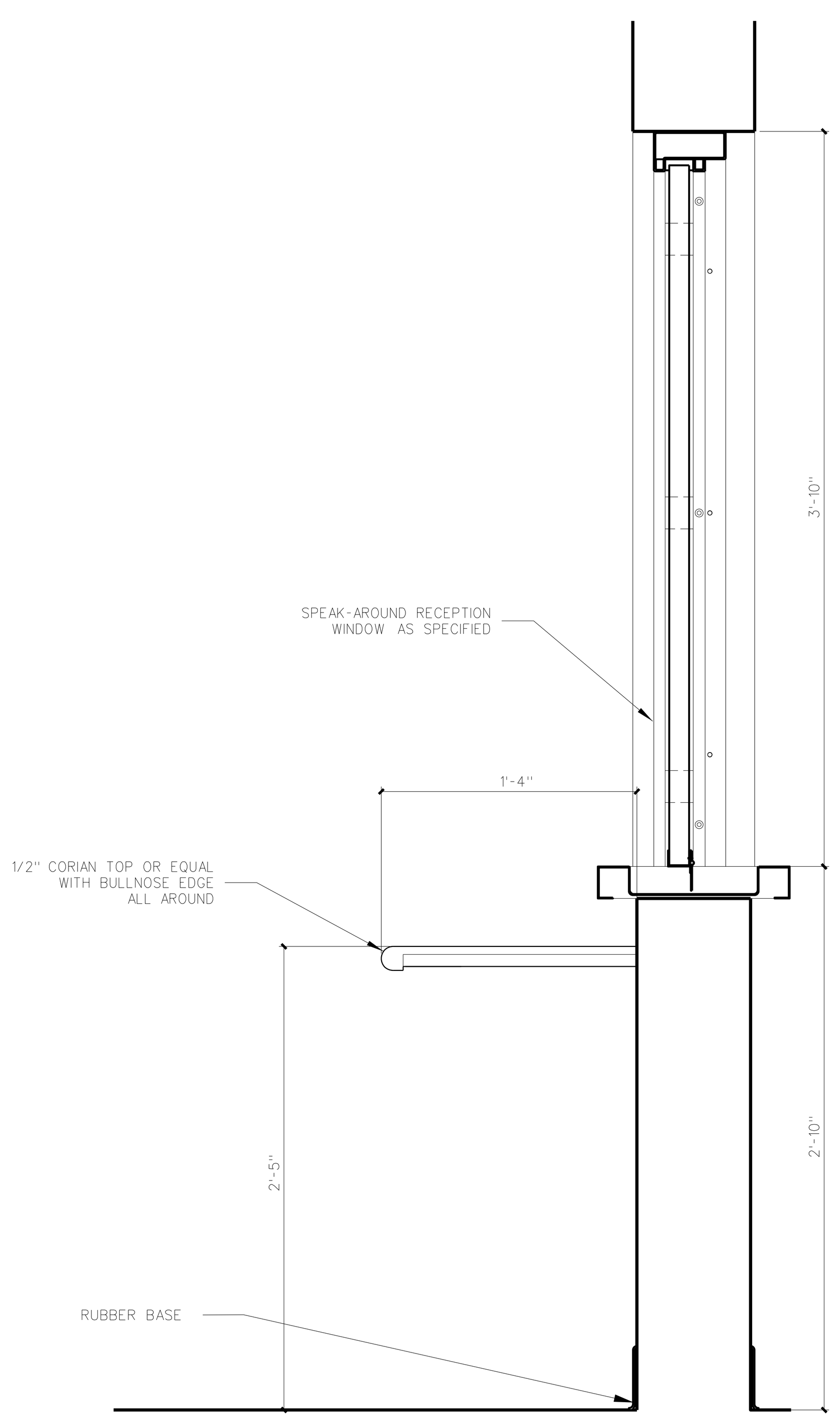
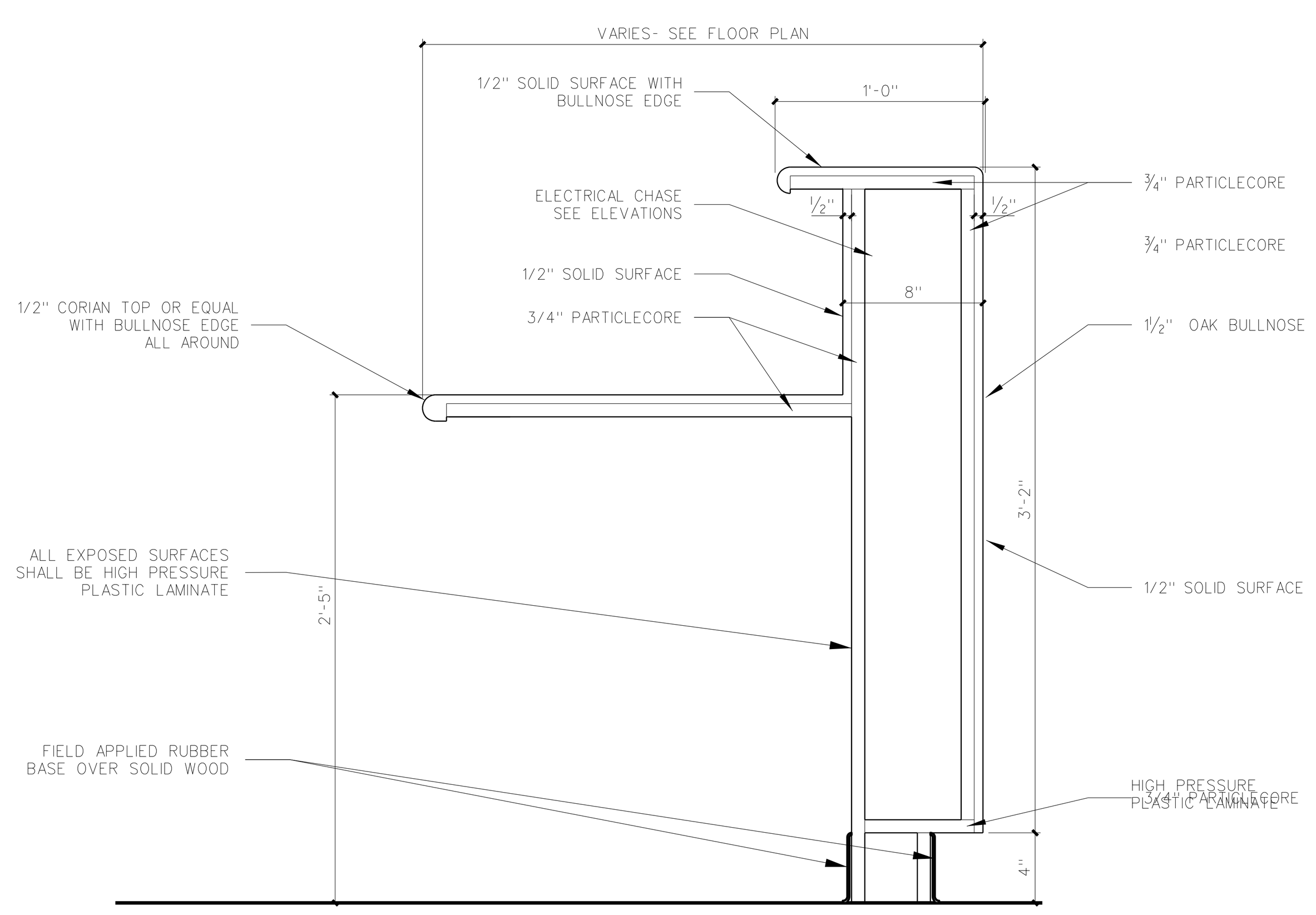
Date: 10 August 2024
Drawing no. A 1001



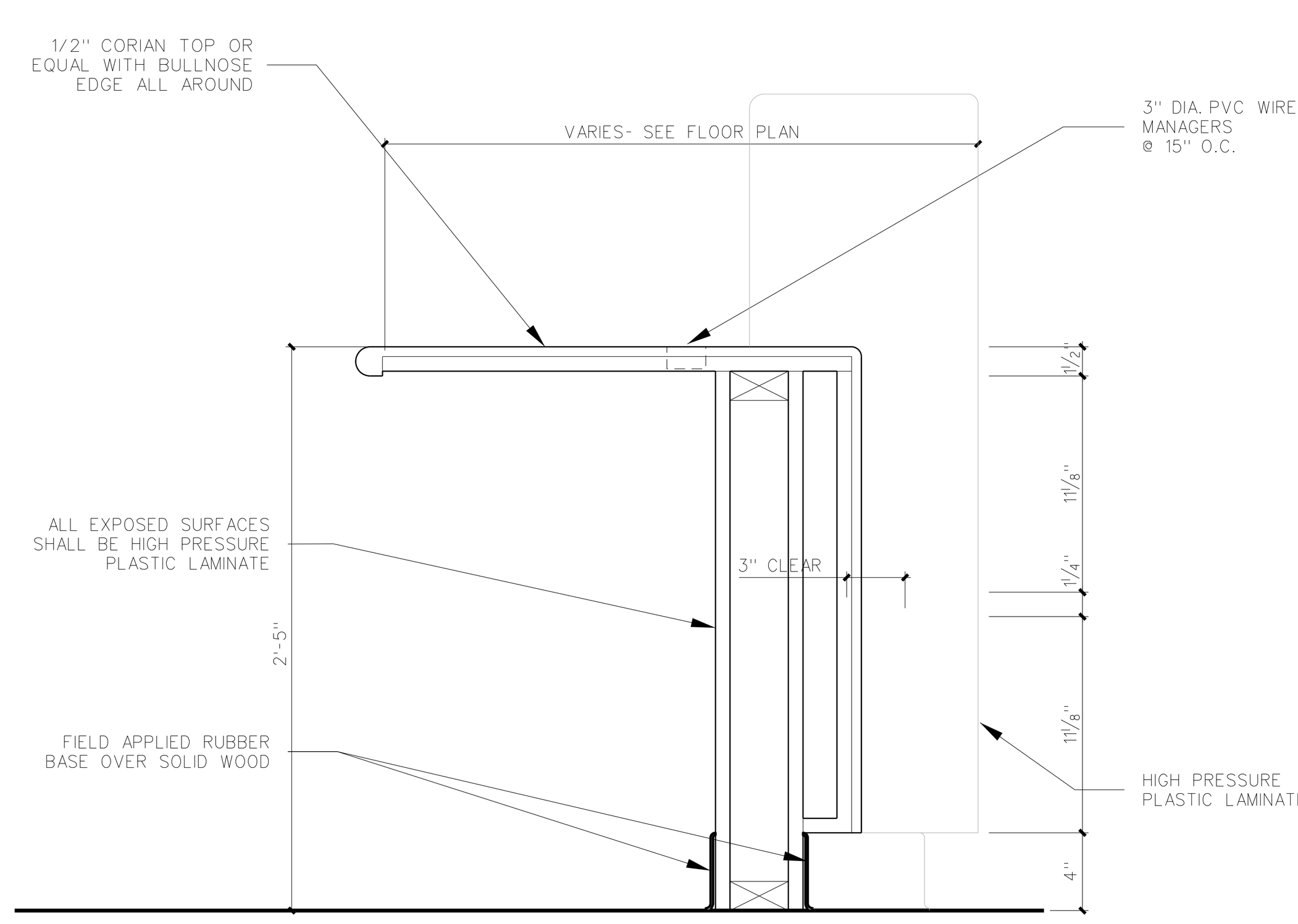
1002.5 SECTION @ WORKROOM 104 ISLAND
SCALE: 1 1/2" = 1'-0"



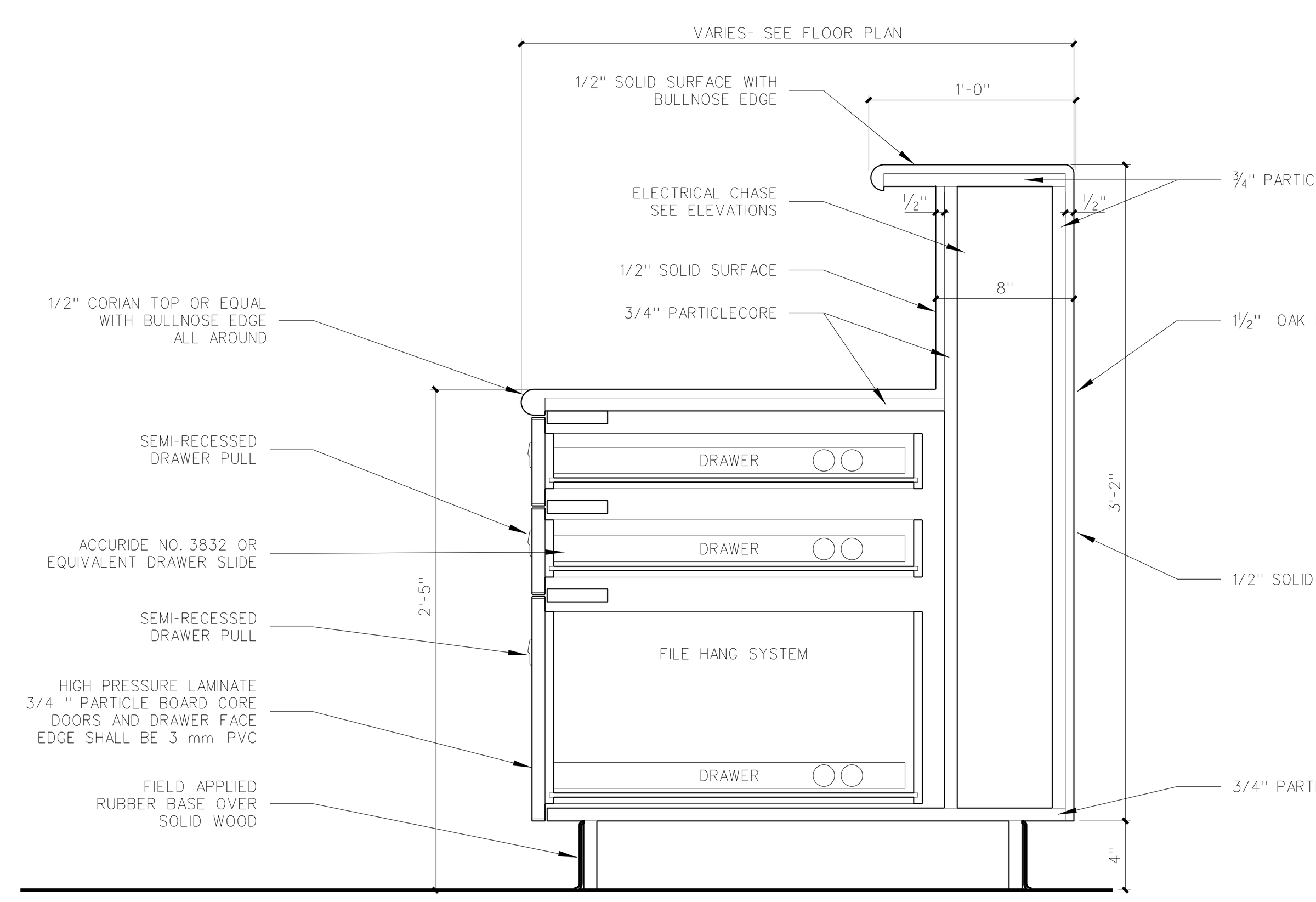
1002.4 29" KNEE SPACE @ RECEPTION
SCALE: 1 1/2" = 1'-0"



1002.3 29" BASE CABINET
SCALE: 1 1/2" = 1'-0"



1002.2 29" BASE CABINET
SCALE: 1 1/2" = 1'-0"



1002.1 29" BASE CABINET
SCALE: 1 1/2" = 1'-0"

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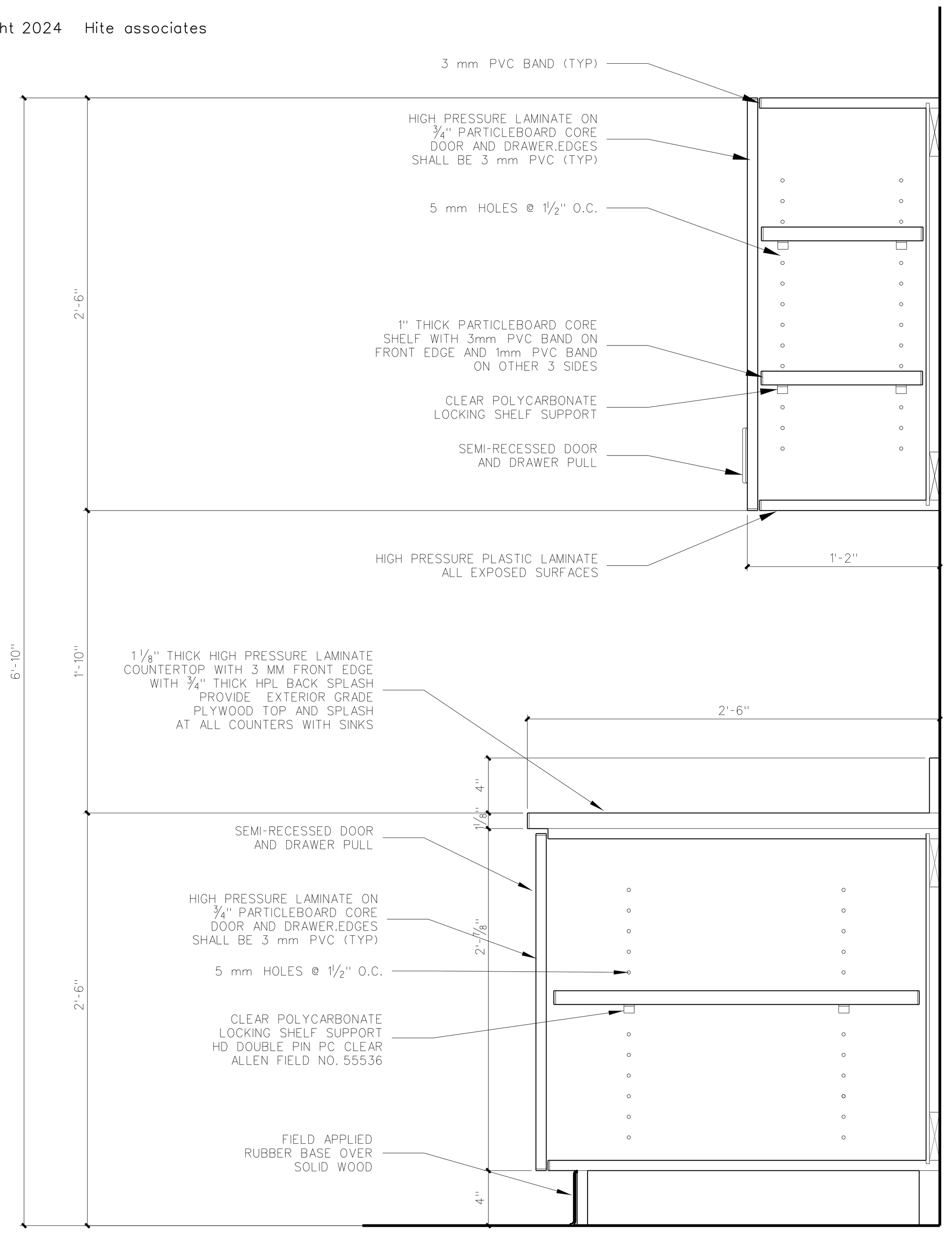
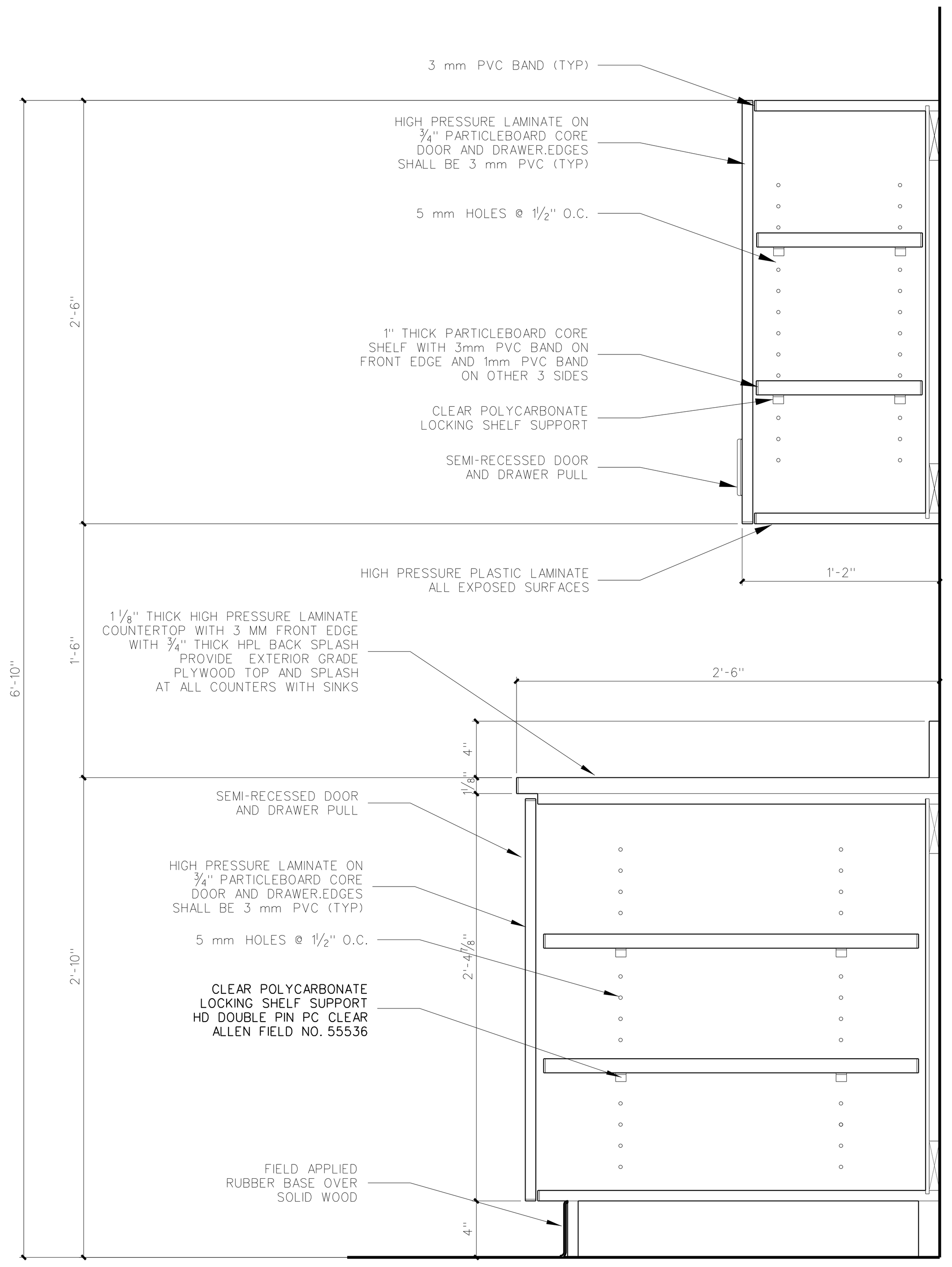
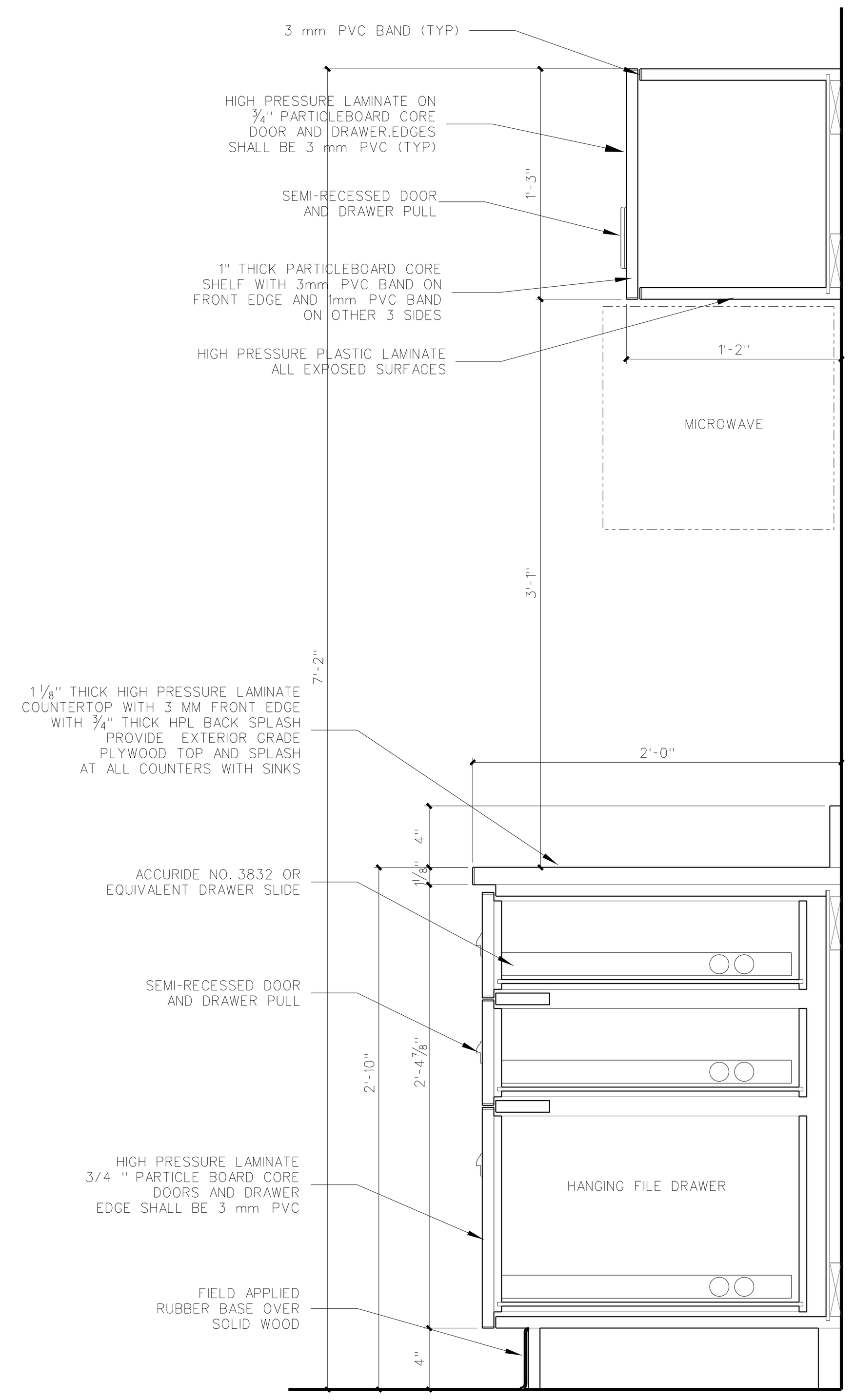


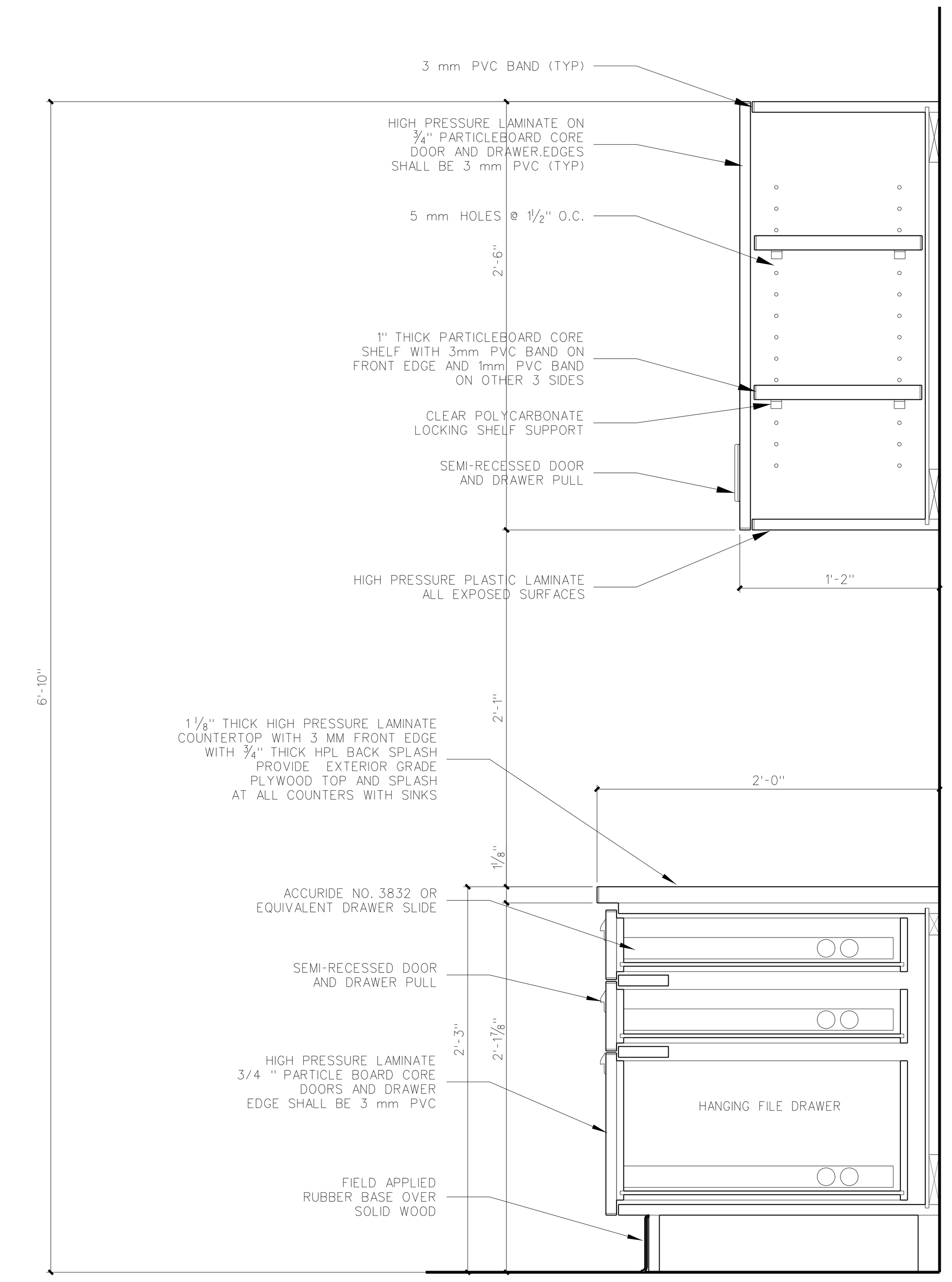
1003.7 30" BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



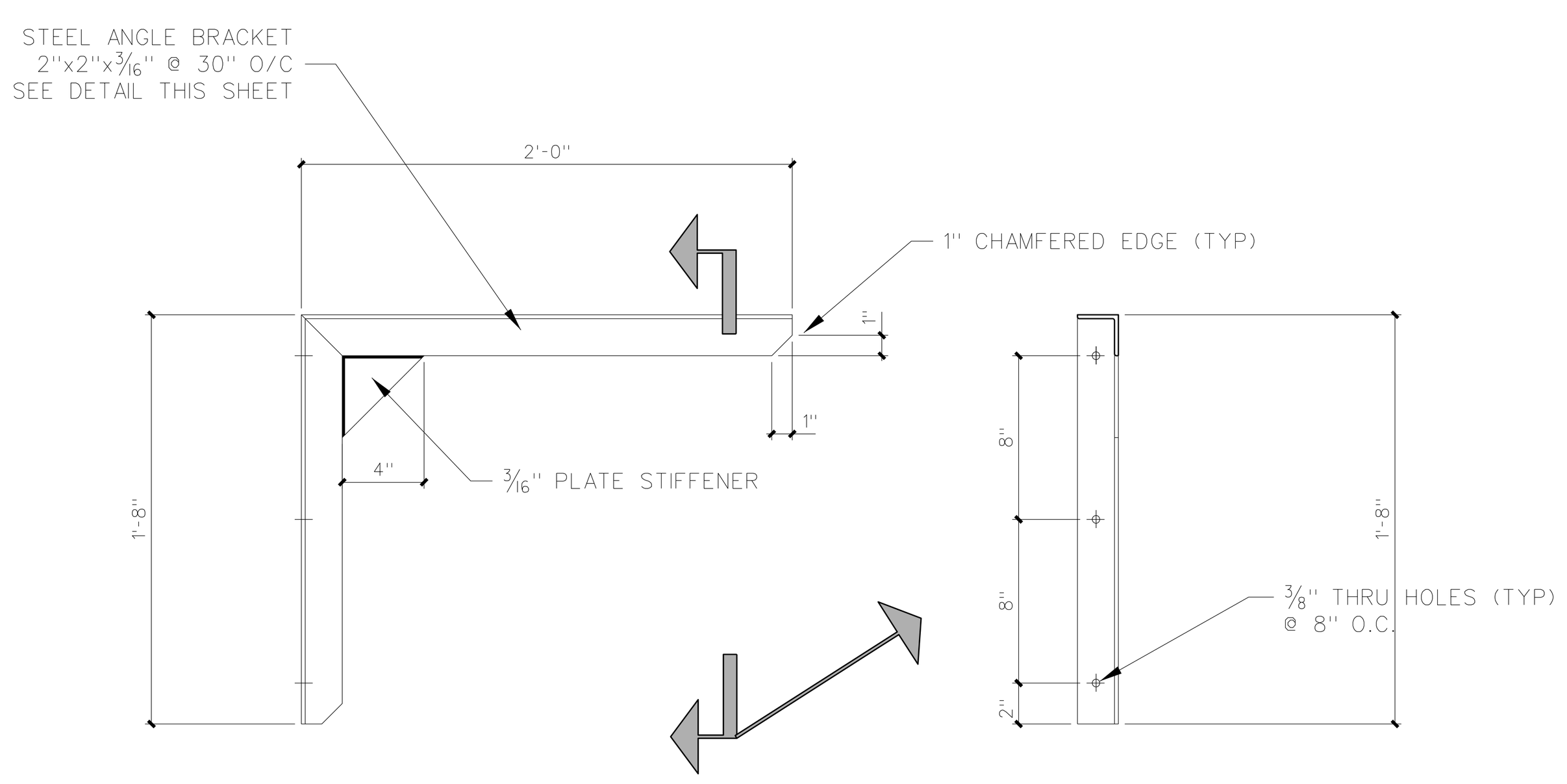
1003.6 34" BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



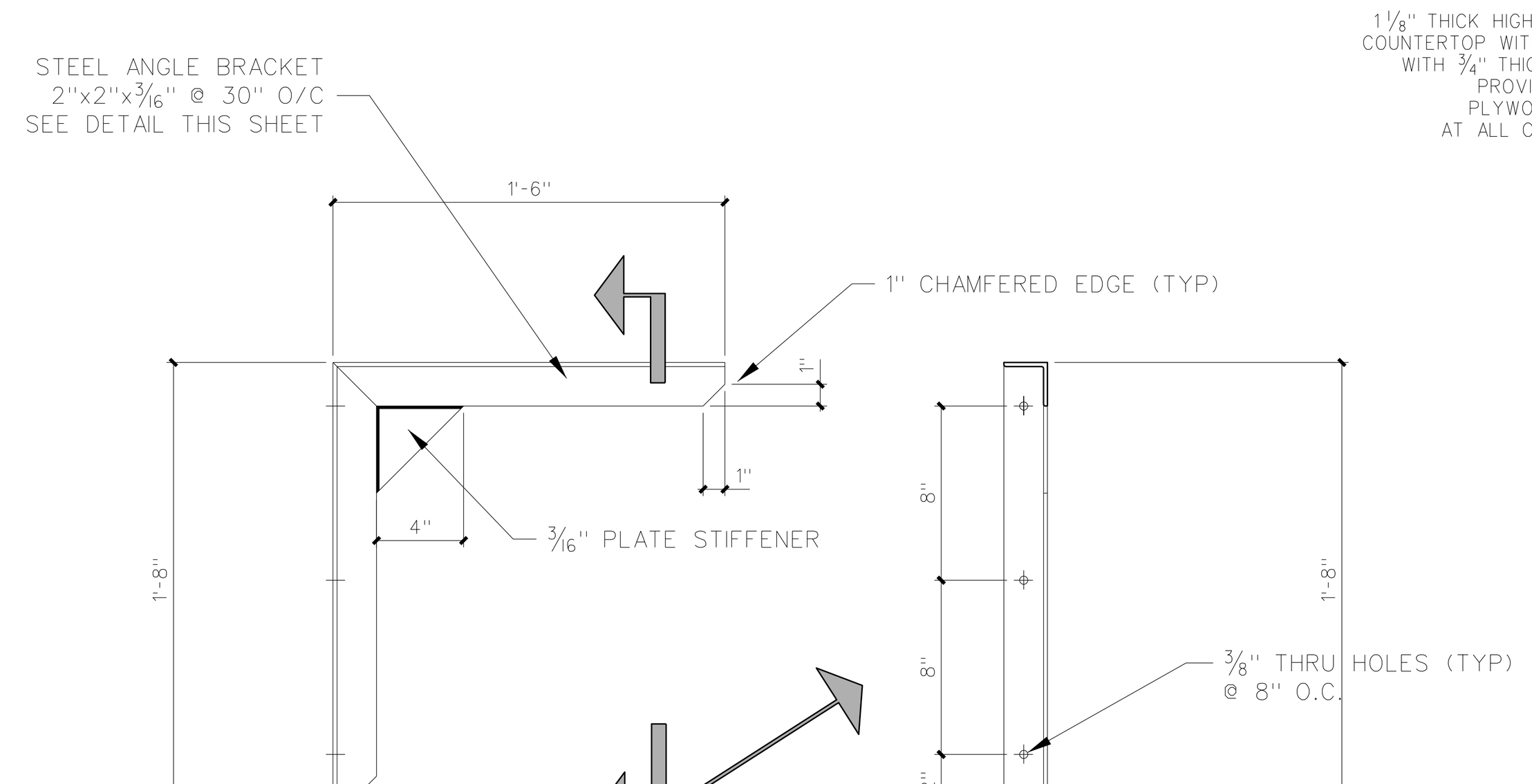
1003.5 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



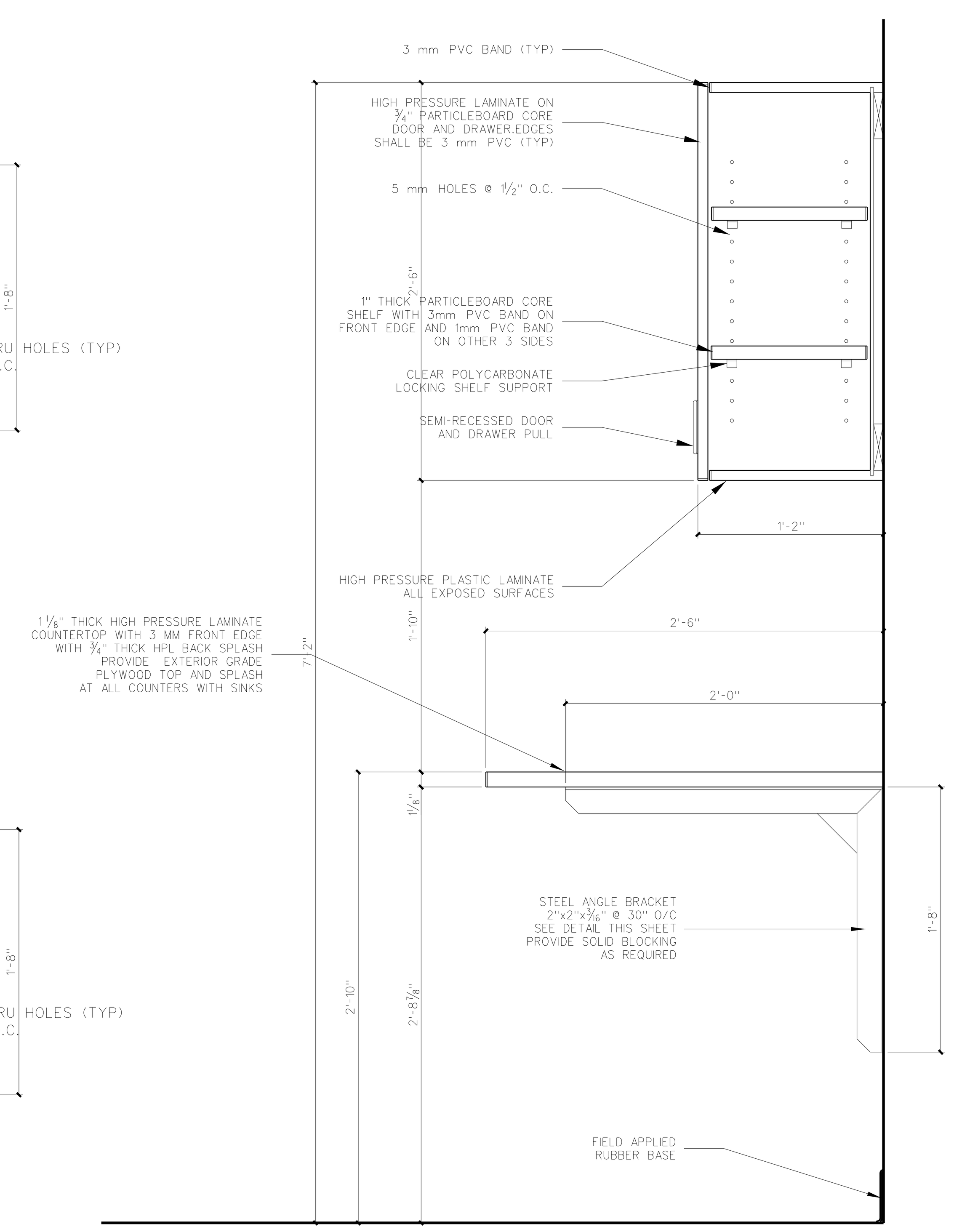
1003.4 SECTION @ COMPUTER SCIENCE 306
24" DEEP
SCALE: 1 1/2" = 1'-0"



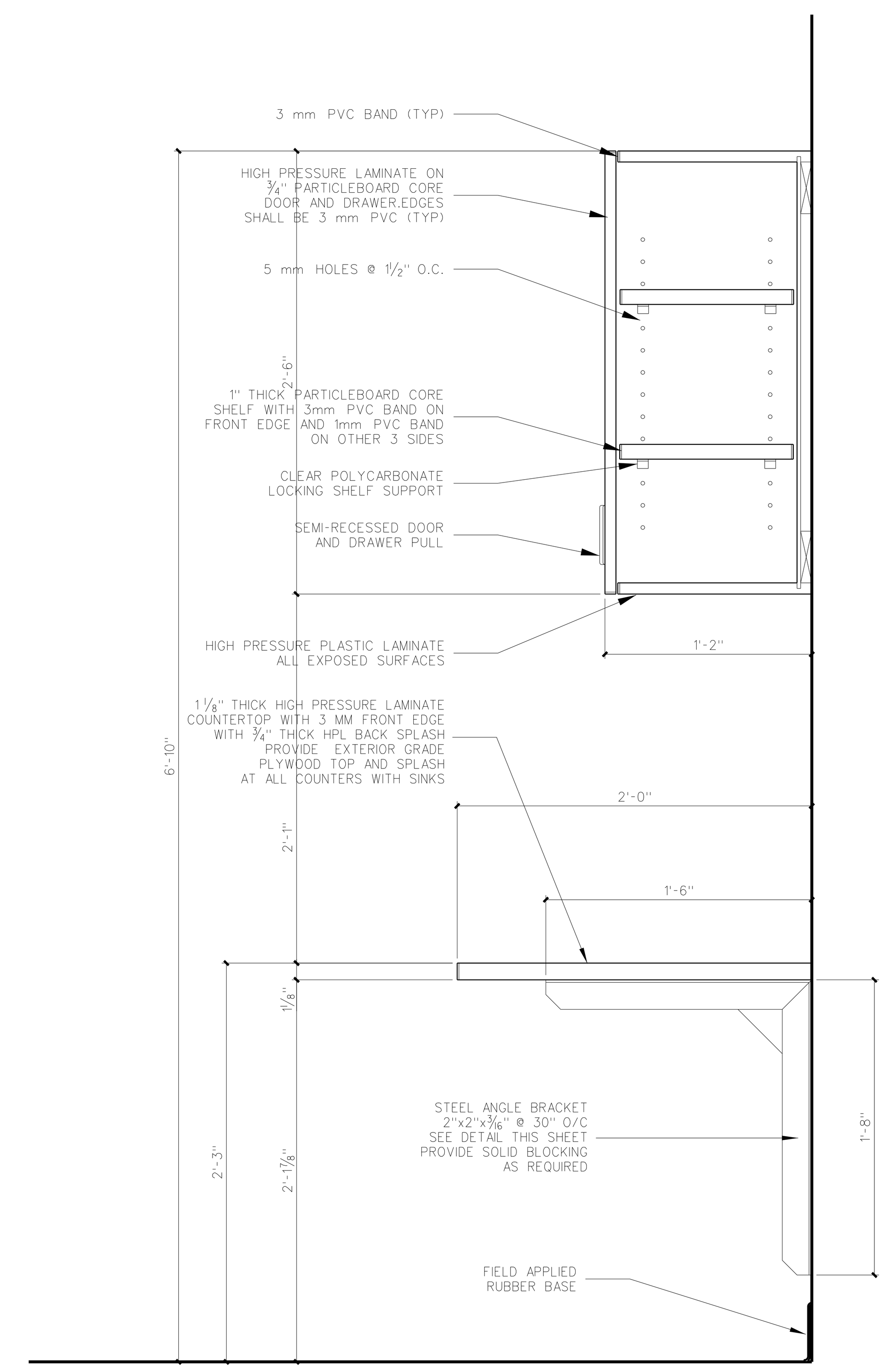
24"x20" STEEL ANGLE SHELF BRACKET
SCALE: 1 1/2" = 1'-0"



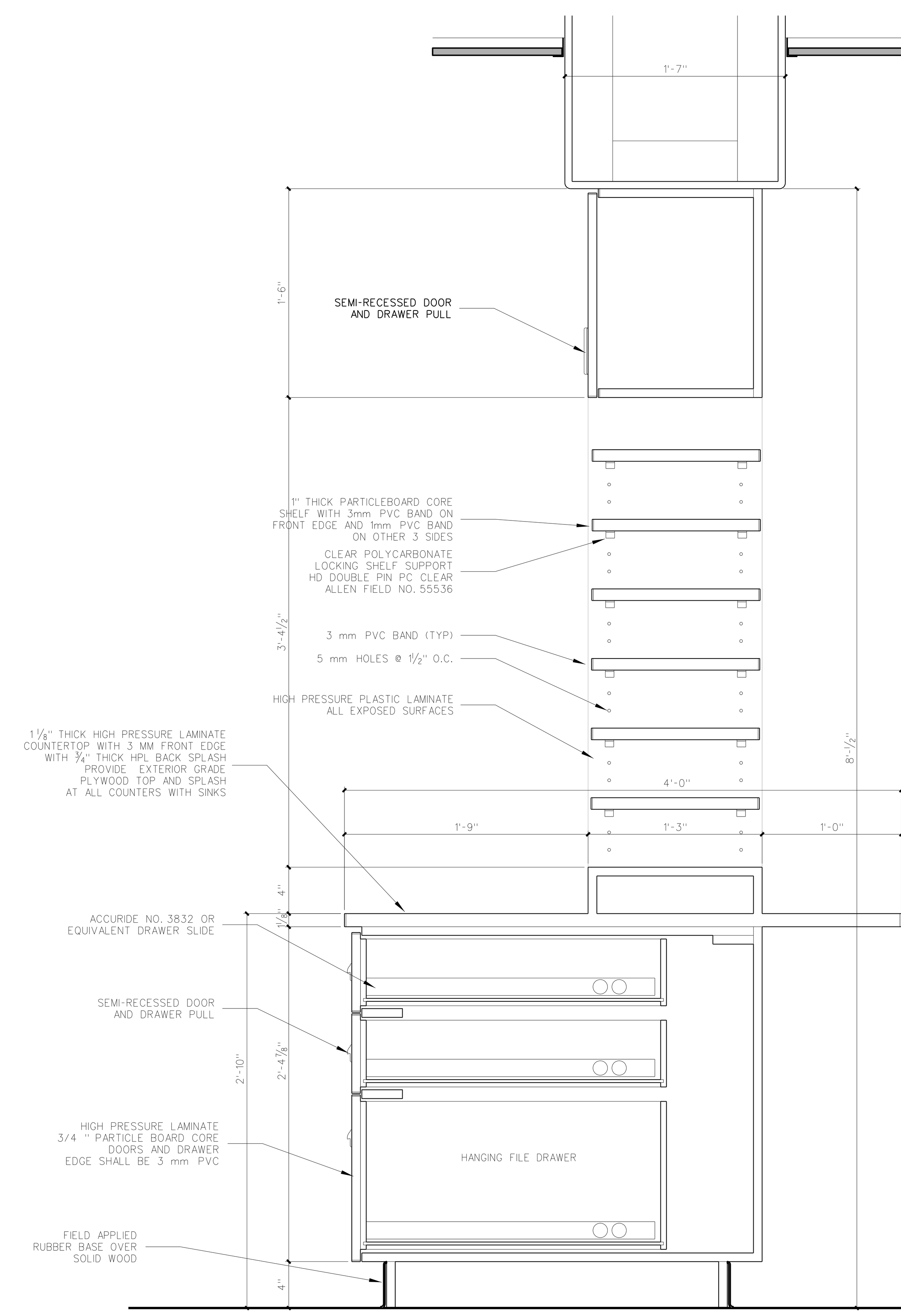
18"x20" STEEL ANGLE SHELF BRACKET
SCALE: 1 1/2" = 1'-0"



1003.3 SECTION @ MAKERSPACE 133
30" DEEP
SCALE: 1 1/2" = 1'-0"



1003.2 SECTION @ COMPUTER SCIENCE 306
24" DEEP
SCALE: 1 1/2" = 1'-0"



1003.1 34" BASE / MAIL SLOTS
SCALE: 1 1/2" = 1'-0"

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Date: 10 August 2024
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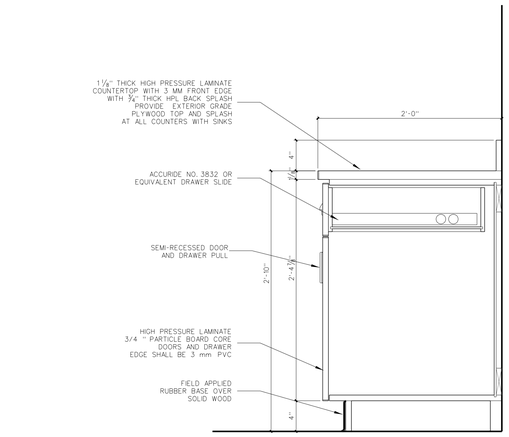
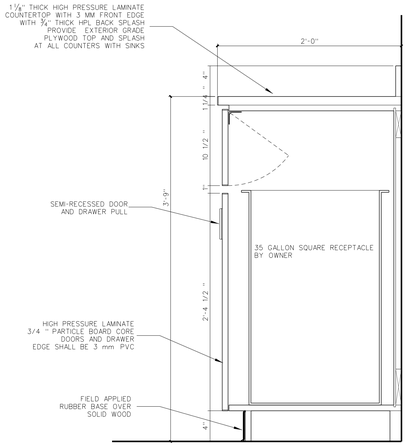
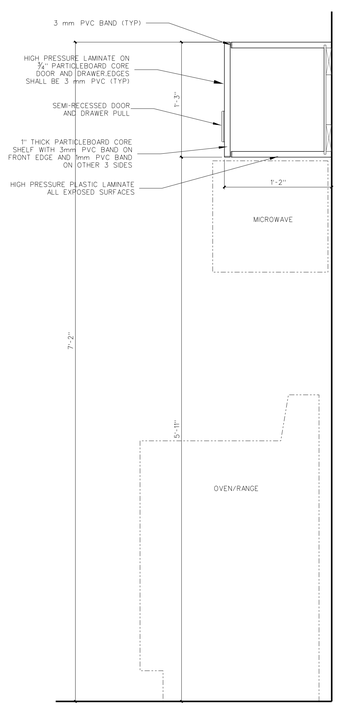


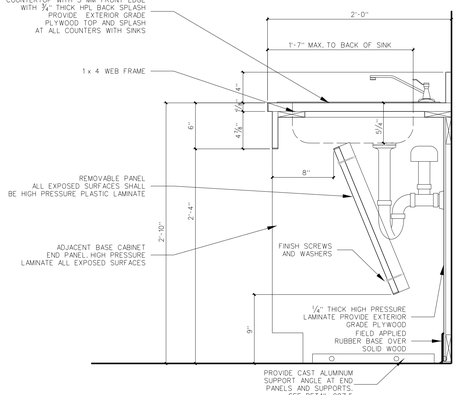
1004.12 34" BASE CABINET
NOTE: 24" DEEP
SCALE: 1 1/2" = 1'-0"



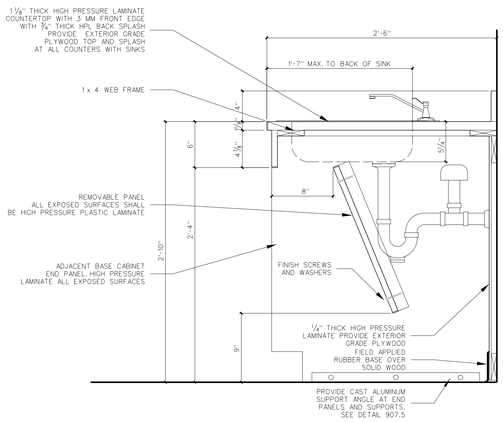
1004.11 TRASH RECEPTACLE
NOTE: 24" DEEP
SCALE: 1 1/2" = 1'-0"



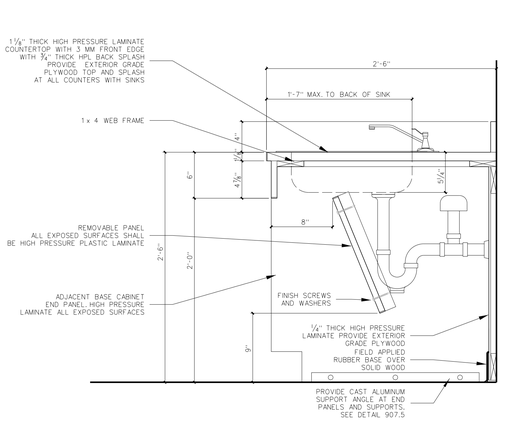
1004.10 WALL CAB. OVER MICROWAVE
SCALE: 1 1/2" = 1'-0"



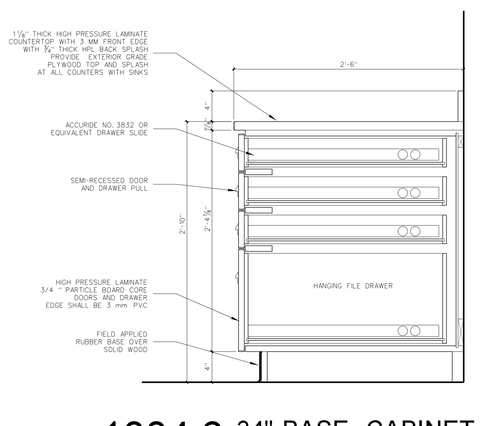
1004.9 34" H/C BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



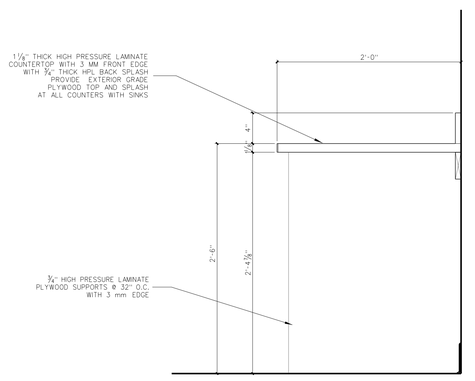
1004.8 34" H/C BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



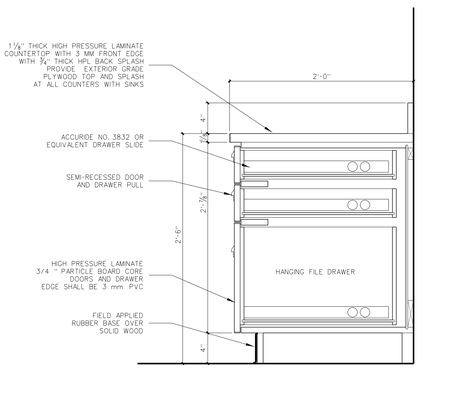
1004.7 30" H/C BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



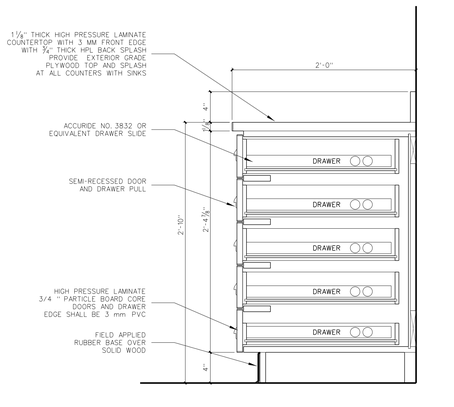
1004.6 34" BASE CABINET
30" DEEP
SCALE: 1 1/2" = 1'-0"



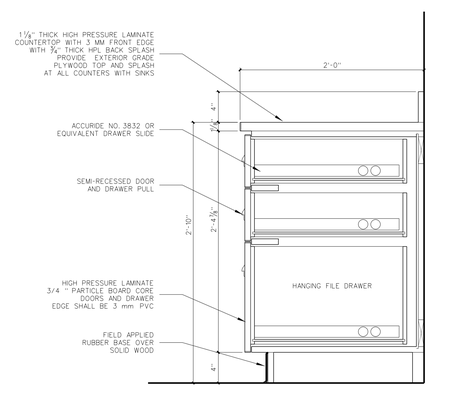
1004.5 30" KNEE SPACE
24" DEEP
SCALE: 1 1/2" = 1'-0"



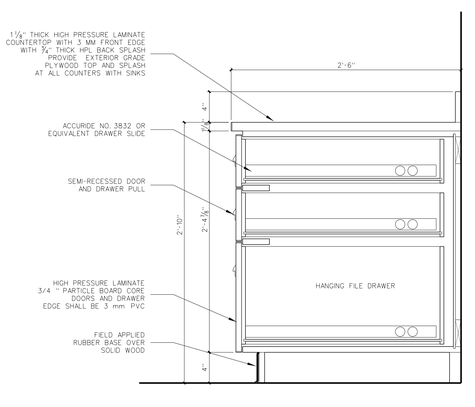
1004.4 30" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



1004.3 34" BASE CABINET
NOTE: 30" DEEP
SCALE: 1 1/2" = 1'-0"



1004.2 34" BASE CABINET
24" DEEP
SCALE: 1 1/2" = 1'-0"



1004.1 34" BASE CABINET @ TEACHER PLANNING
30" DEEP
SCALE: 1 1/2" = 1'-0"

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JAMES GRAY HITE REGISTERED ARCHITECT 7344 NORTH CAROLINA GREENVILLE

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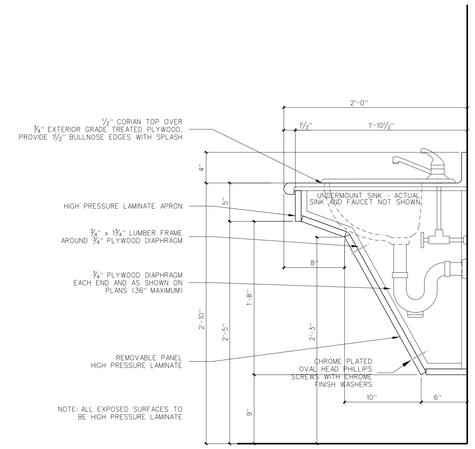
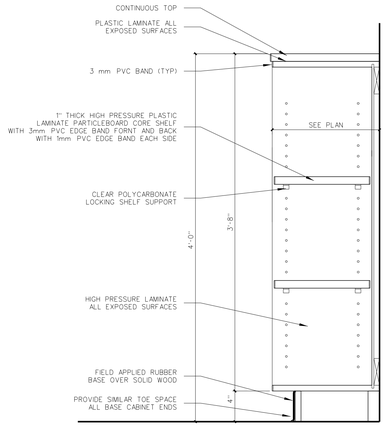
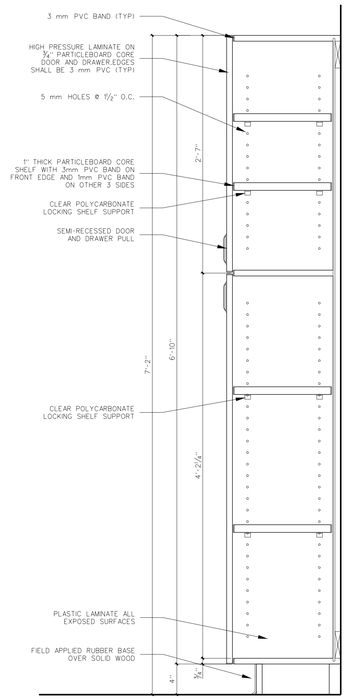


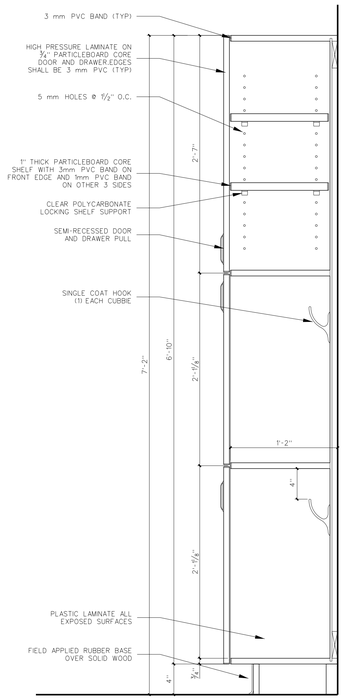
1005.9 HANDICAP VANITY
SCALE: 1 1/2" = 1'-0"



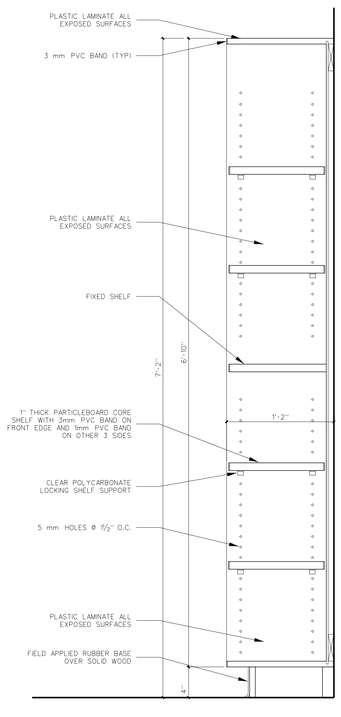
1005.8 SECTION @ BOOKCASE
SCALE: 1 1/2" = 1'-0"



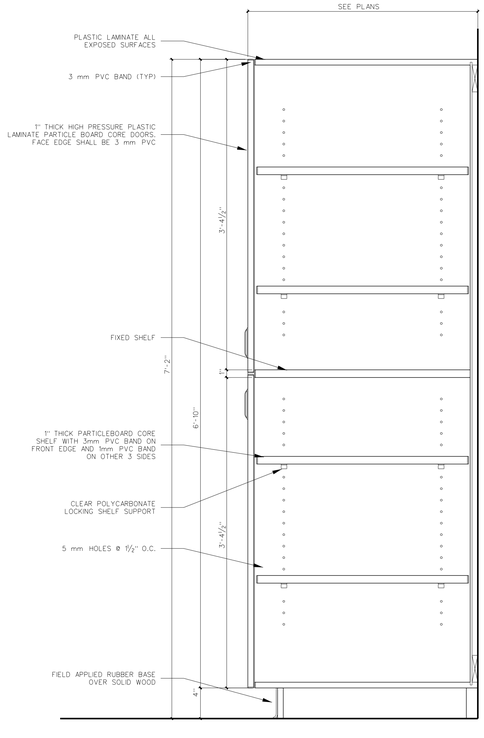
1005.7 SECTION @ CUBBIES
SCALE: 1 1/2" = 1'-0"



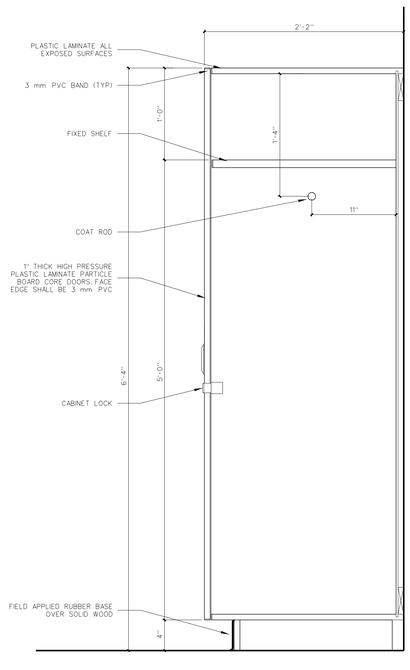
1005.6 SECTION @ CUBBIES
SCALE: 1 1/2" = 1'-0"



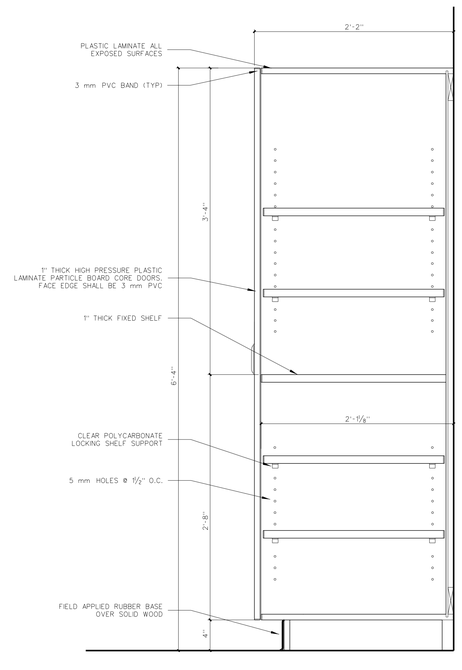
1005.4 SECTION @ BOOKCASE
SCALE: 1 1/2" = 1'-0"



1005.3 FULL HEIGHT WALL CABINET
SCALE: 1 1/2" = 1'-0"



1005.2 SECTION @ TEACHERS CABINET
SCALE: 1 1/2" = 1'-0"



1005.1 SECTION @ TEACHERS CABINET
SCALE: 1 1/2" = 1'-0"

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HITE ASSOCIATES, P.C. — ARCHITECTURAL CORPORATION — REGISTERED — CERTIFICATE NUMBER C-418 — GREENVILLE, NC

JAMES GRAY HITE — REGISTERED ARCHITECT — 27344 — STATE OF NORTH CAROLINA — GREENVILLE, NC

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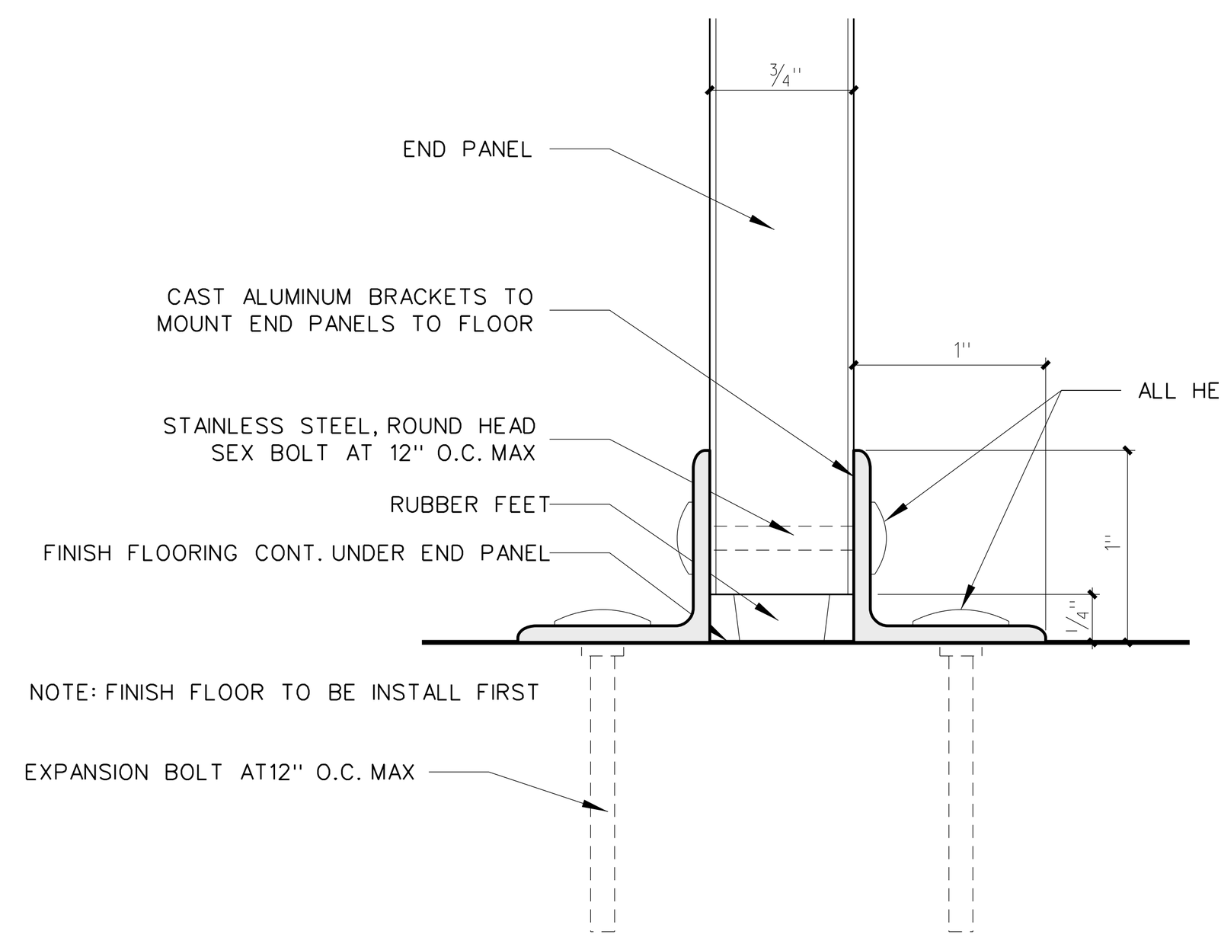
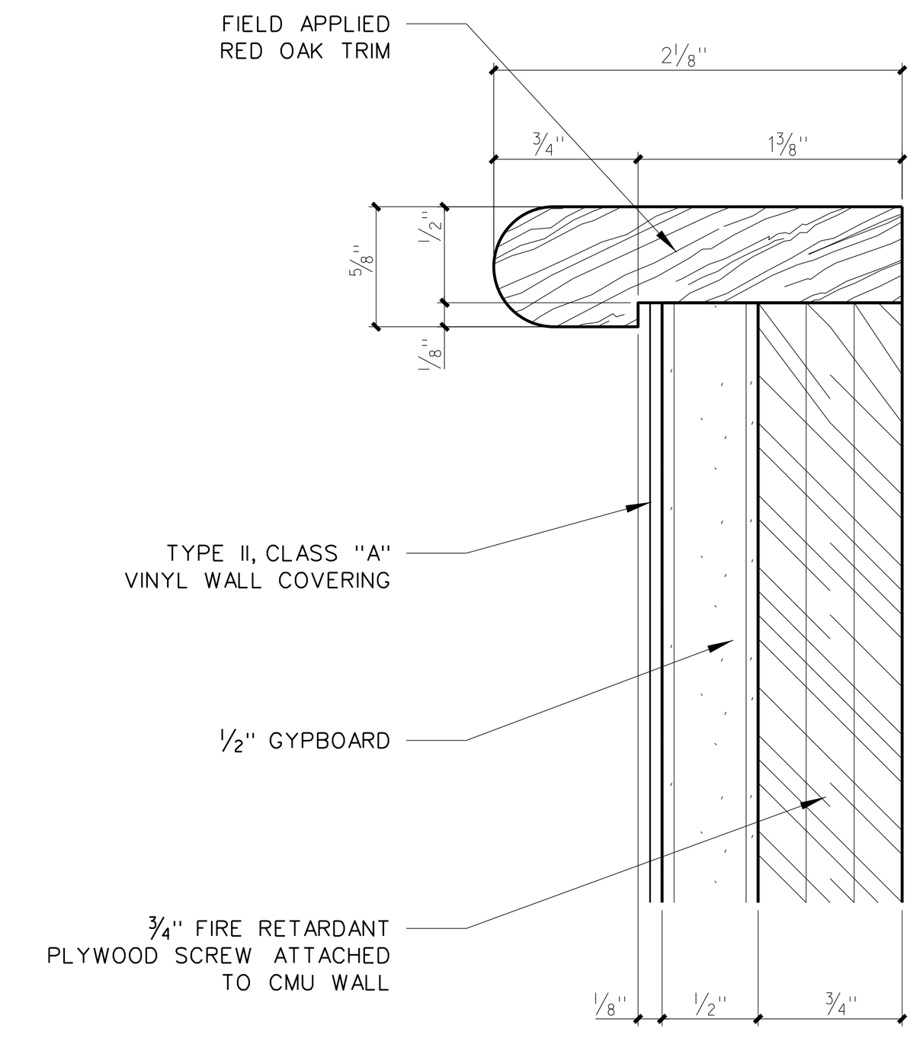
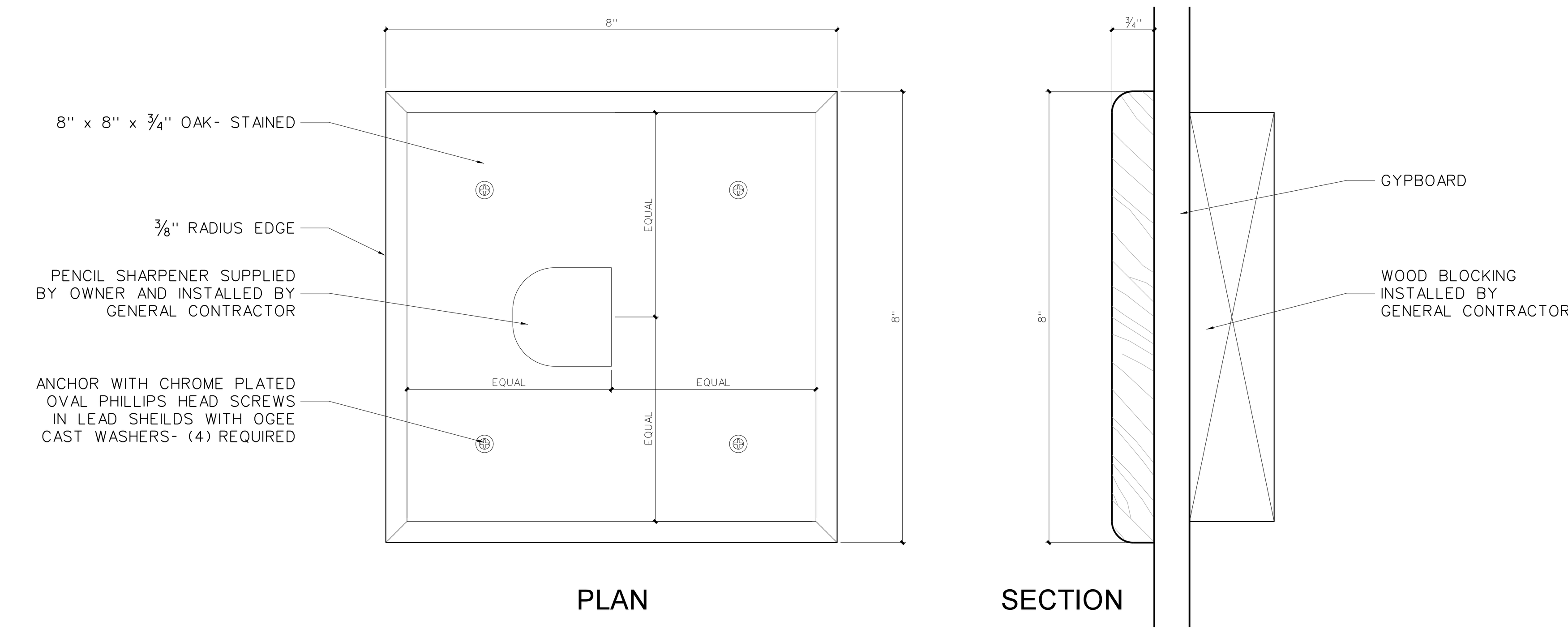
Drawing no.: A 1005



1006.7 END PANEL SUPPORT DETAIL
SCALE: Fullsize

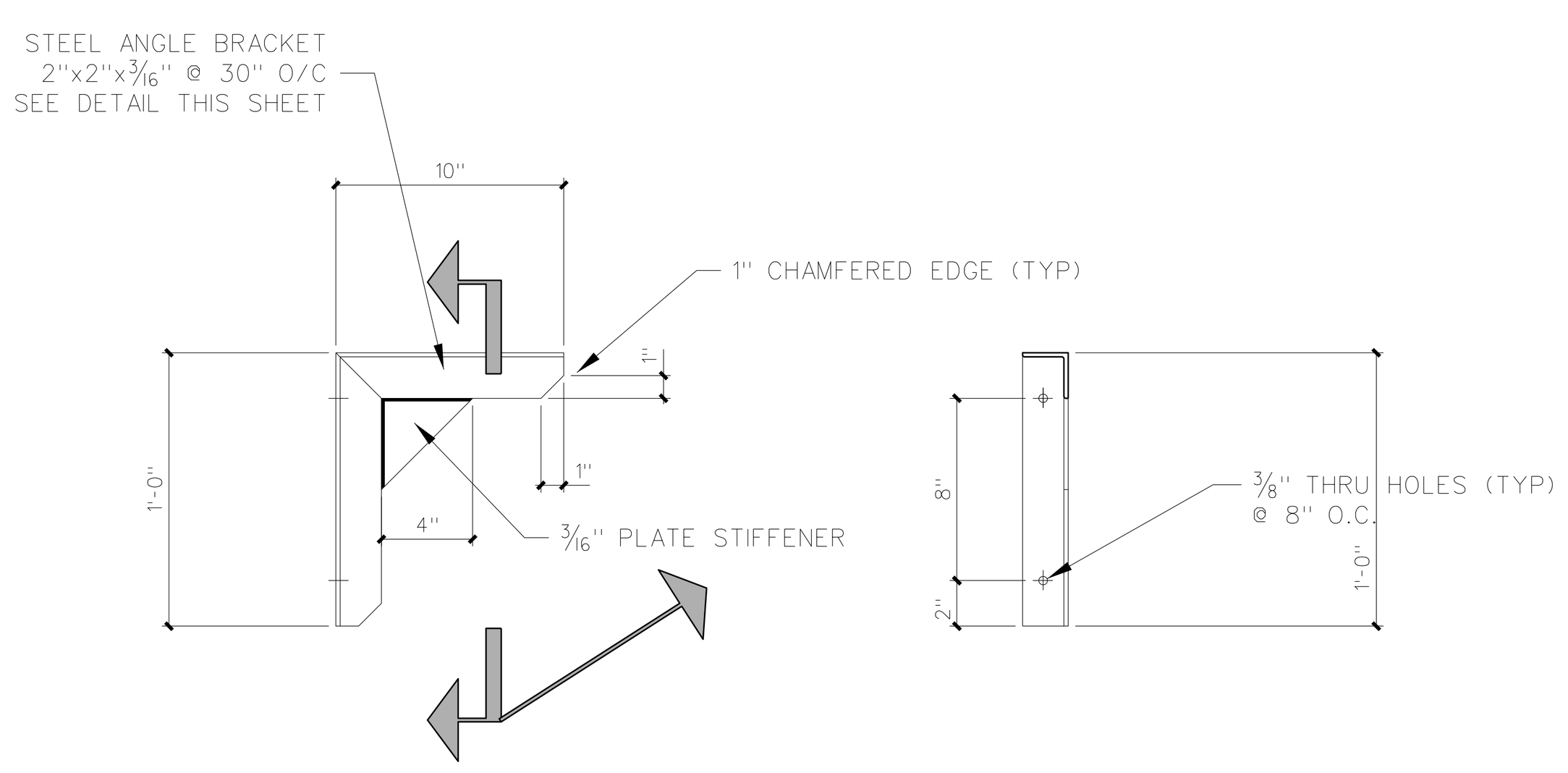


1006.6 DISPLAY BOARD EDGE TRIM
SCALE: Fullsize

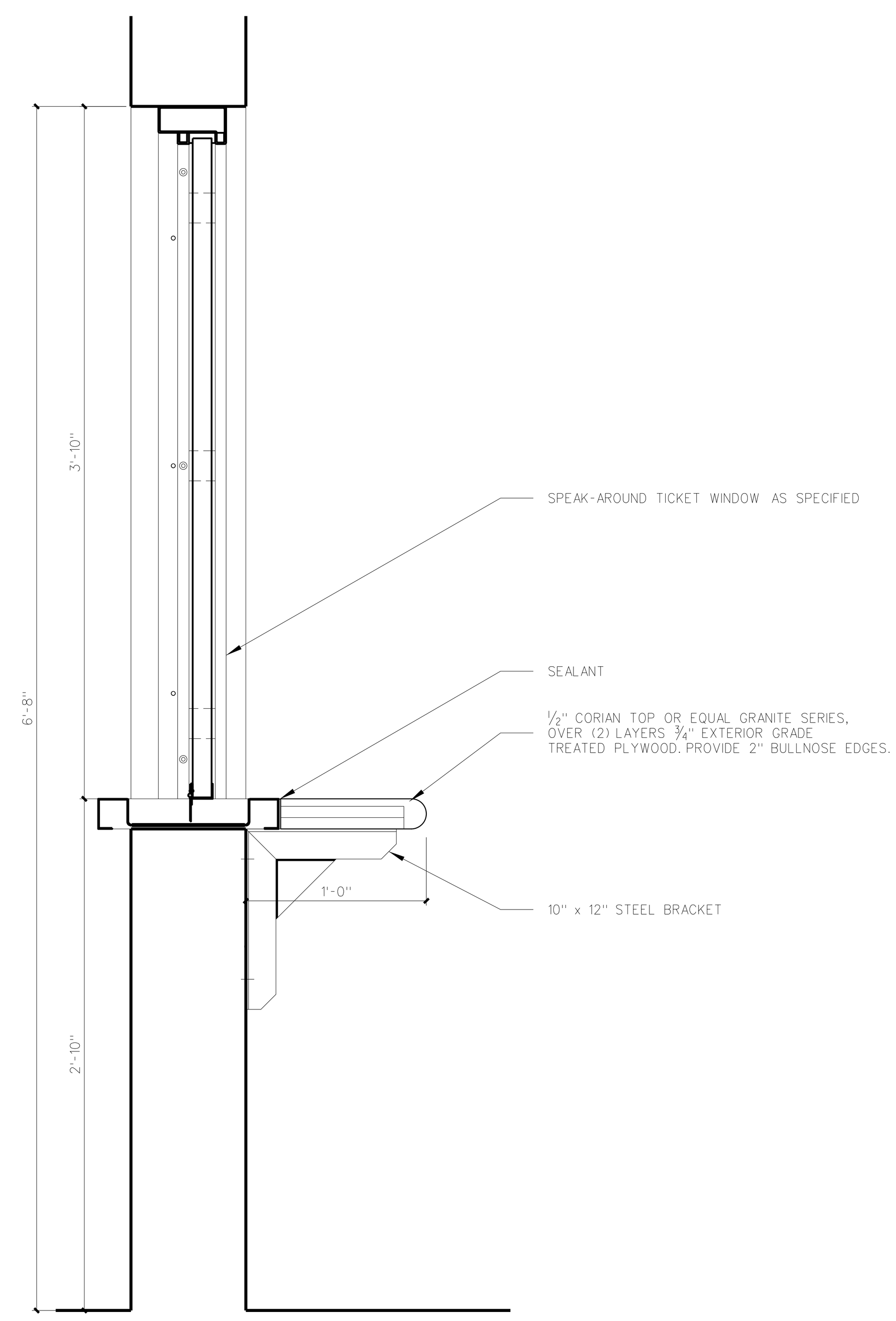


NOTE: INSTALL (1) PER CLASSROOM AND RESOURCE ROOM LOCATION TO BE DETERMINED BY OWNER

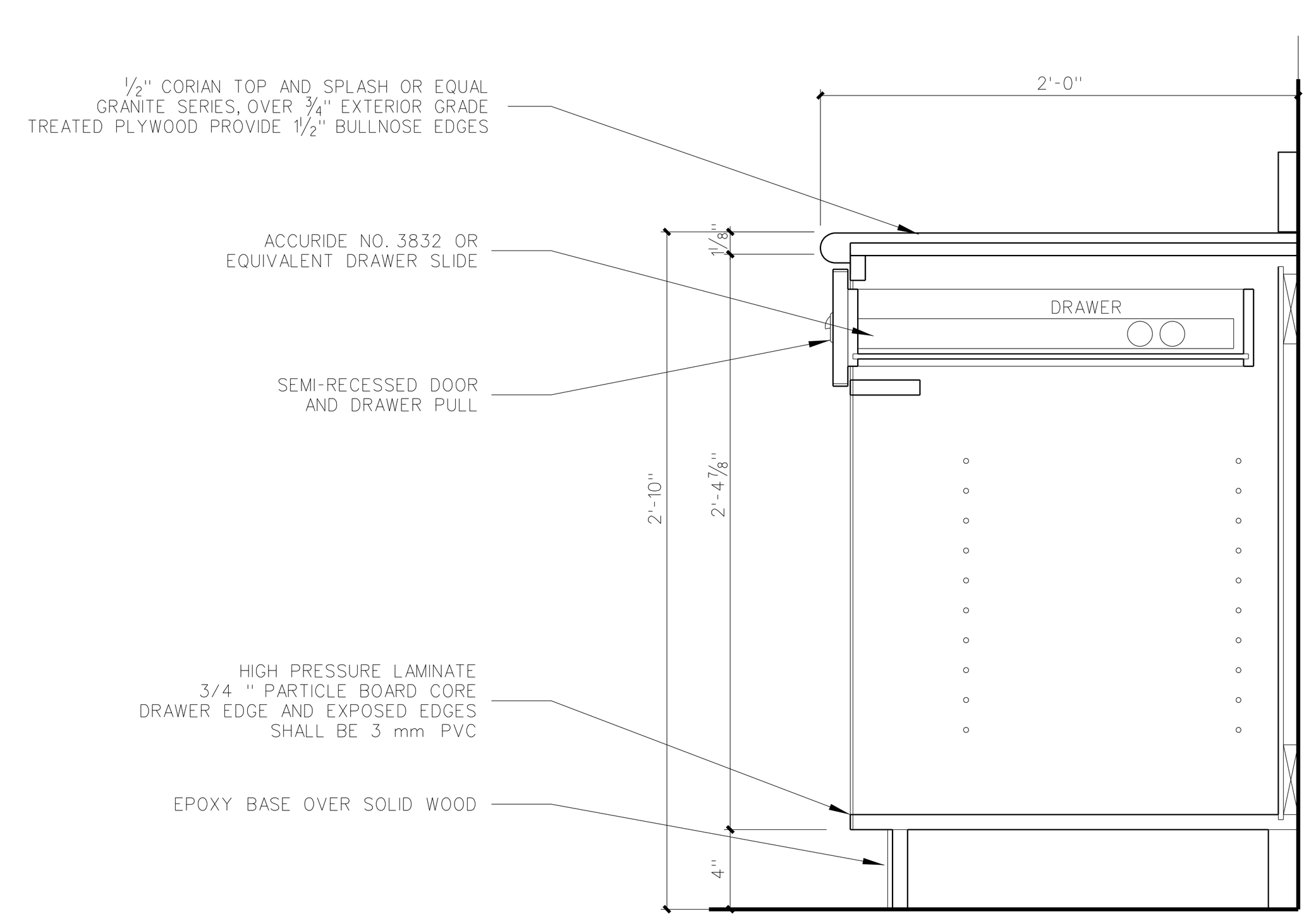
1006.5 PENCIL SHARPENER DETAIL
SCALE: 6" = 1'-0"



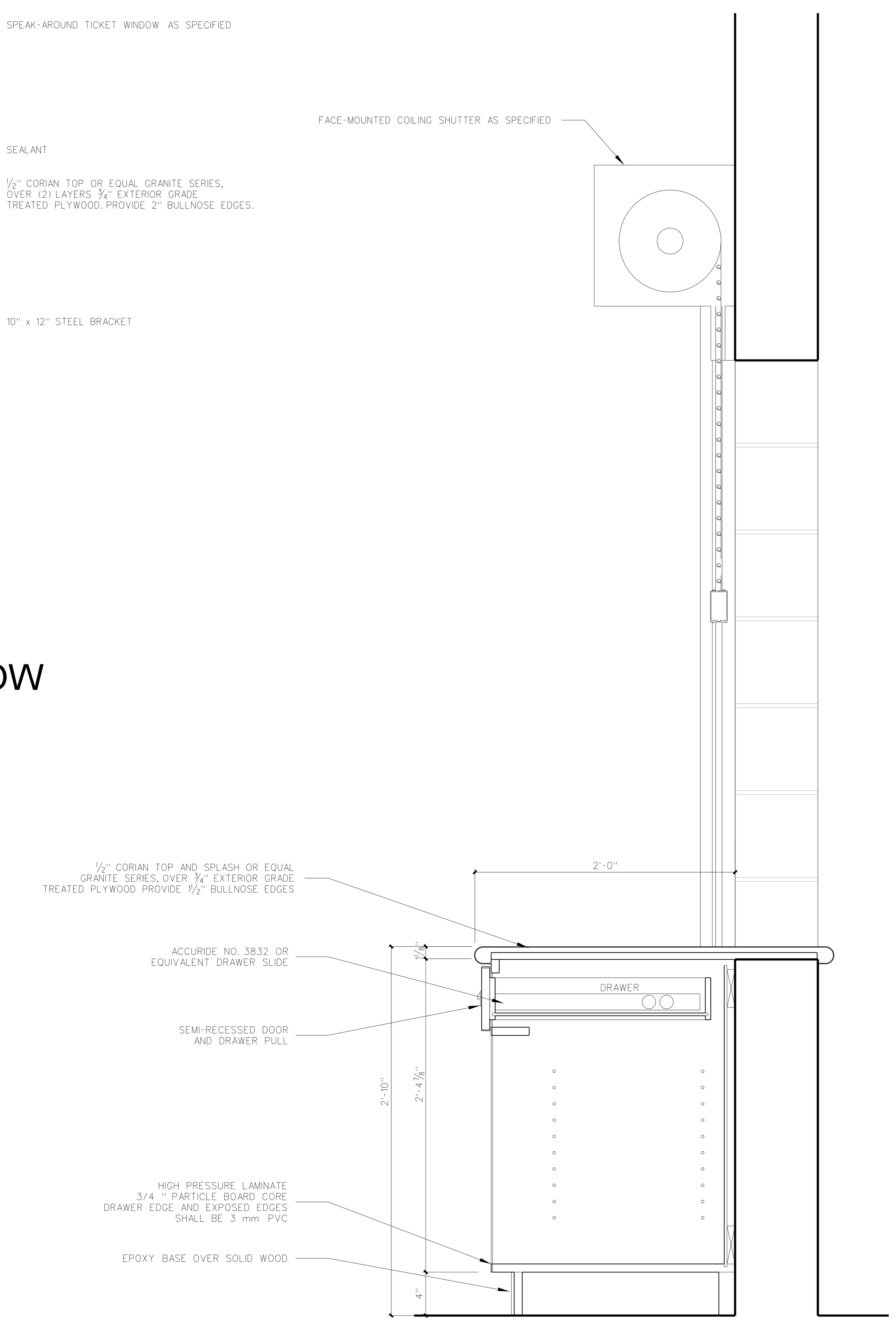
10"x12" STEEL ANGLE SHELF BRACKET
SCALE: 1 1/2" = 1'-0"



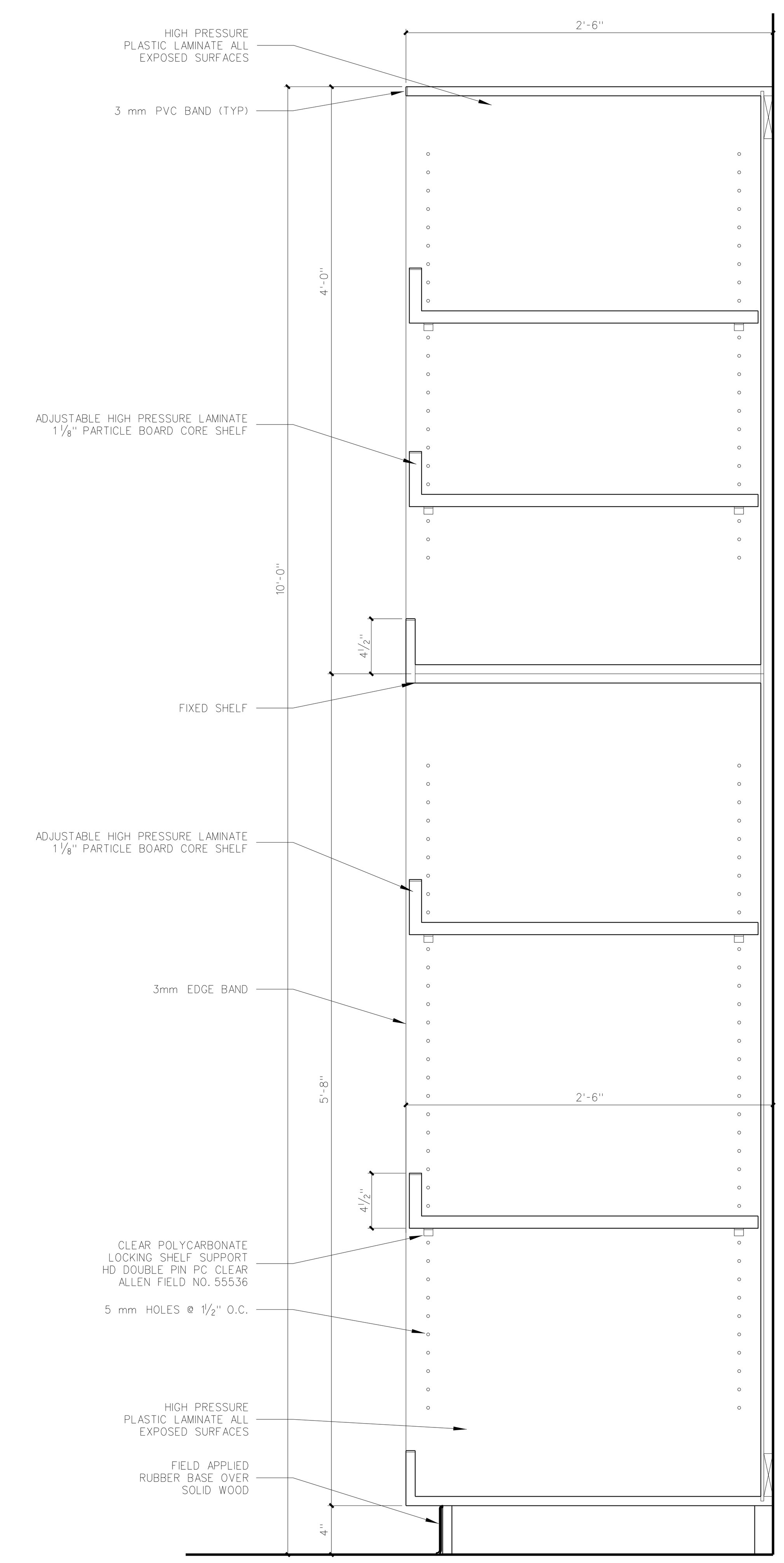
1006.4 SECTION @ TICKET WINDOW
SCALE: 1 1/2" = 1'-0"



1006.3 SECTION @ CONCESSIONS
SCALE: 1 1/2" = 1'-0"



1006.2 SECTION @ CONCESSIONS
SCALE: 1 1/2" = 1'-0"



1006.1 SECTION @ P.E. STORAGE CABINET
SCALE: 1 1/2" = 1'-0"

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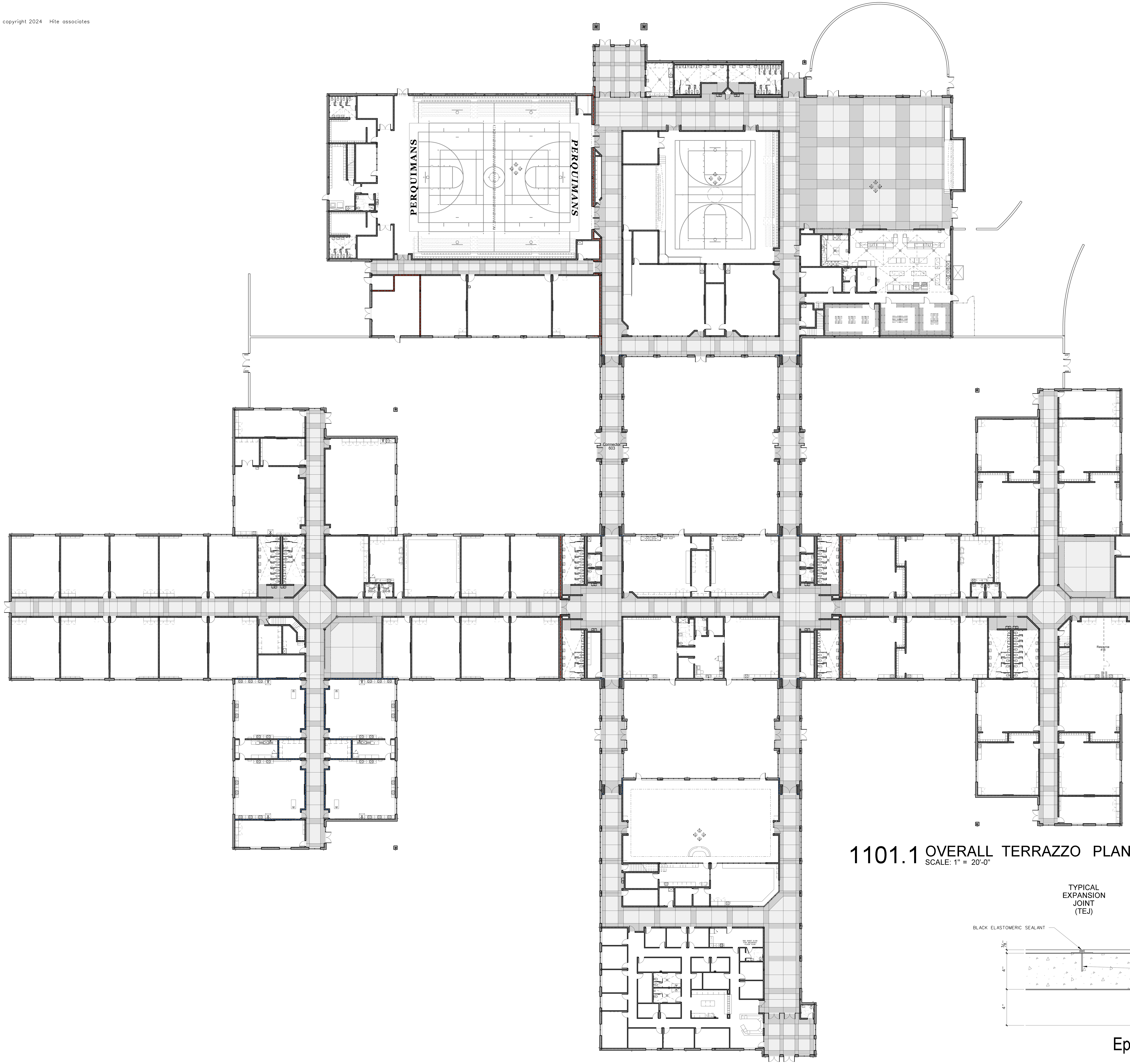
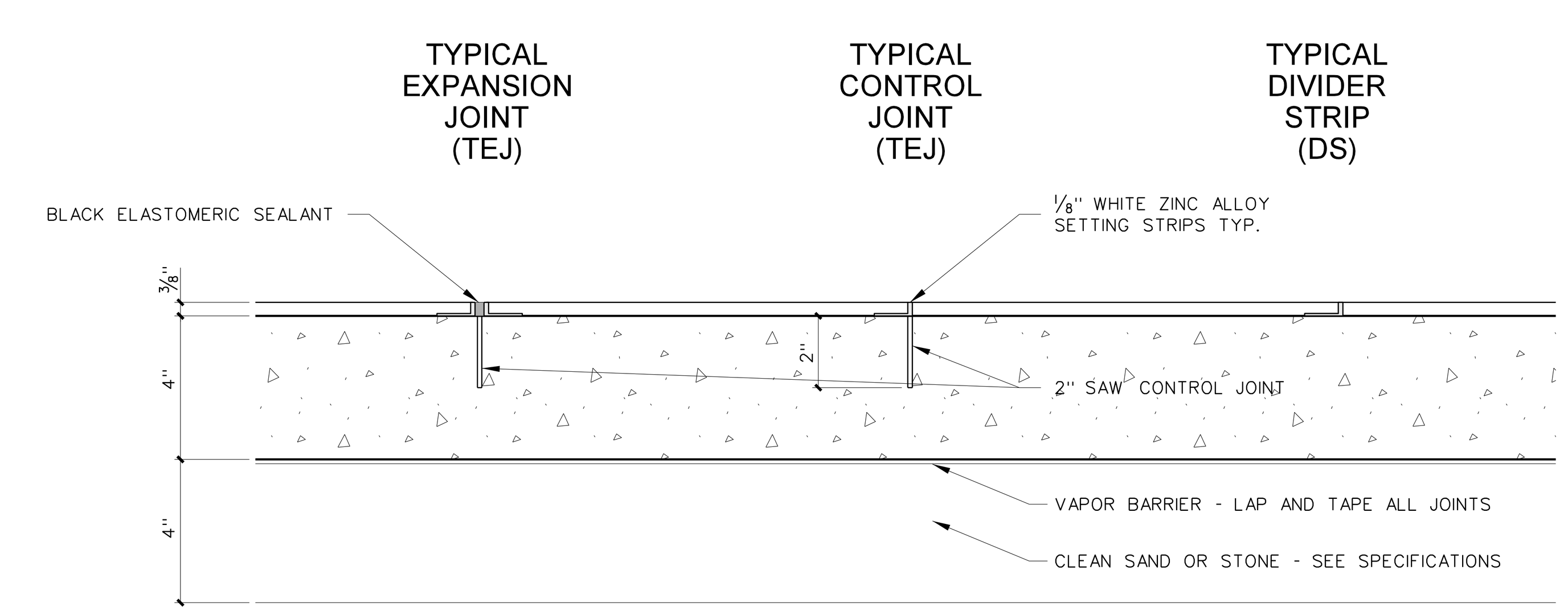


1101.1 OVERALL TERRAZZO PLAN
SCALE: 1" = 20'-0"

Notes for Terrazzo Flooring

1. Use Typical Expansion Joints (TEJ) at columns lines, wall corners, and other conditions as recommended by NTMA. (National Terrazzo and Mosaic Association)
2. Provide saw cut joints in concrete under terrazzo joints, not to exceed 12' spacing between sawed joints.
3. Saw cut control joints shall be cut straight and at locations shown on plans. Saw cut joints shall be made within 24 hours after placing concrete.
4. Install terrazzo floor according to NTMA (National Terrazzo and Mosaic Associations) standards.

Note: Terrazzo Flooring for this project is under Alternate Bid.



Epoxy Terrazzo Joints

No.	Date:	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — REGISTERED ARCHITECTURAL CORPORATION — CERTIFICATE NUMBER 418 — STATE OF NORTH CAROLINA — GREENVILLE
JAMES GRAY HITE — REGISTERED ARCHITECT 3754 — STATE OF NORTH CAROLINA — GREENVILLE

Perquimans County Intermediate School
PERQUIMANS COUNTY SCHOOLS
Winfall Boulevard / Winfall / North Carolina / 27944

Project No. 22303

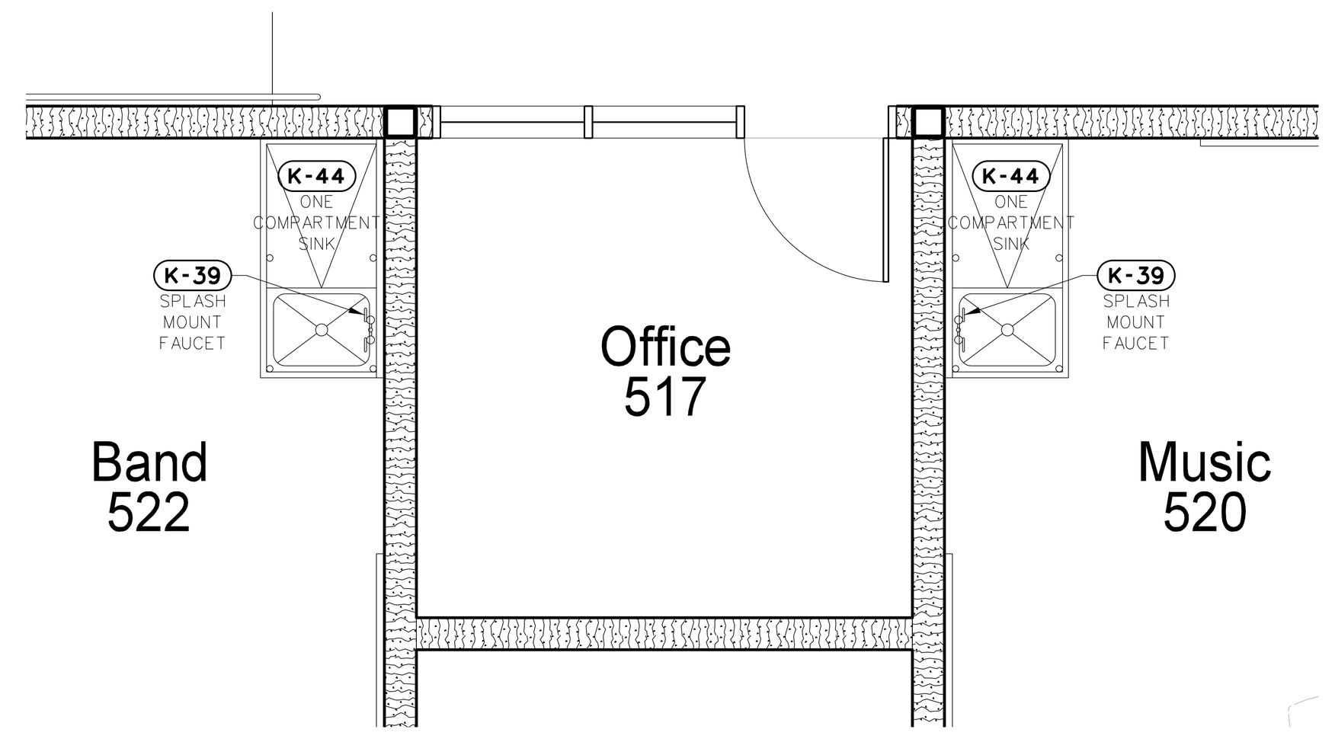
Date: 10 August 2024

Drawing no. A 1101

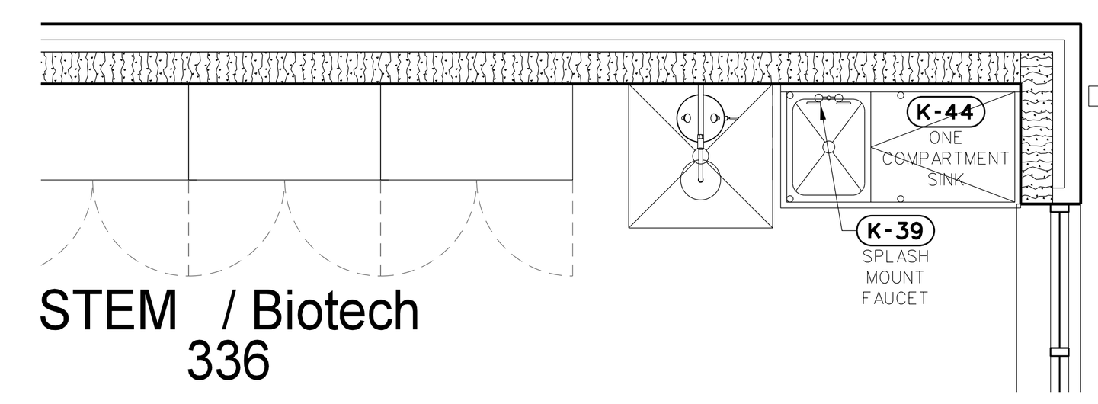
KITCHEN EQUIPMENT SCHEDULE

MARK		DESCRIPTION	MFR / MODEL	SIZE	ELECTRICAL			PLUMBING				GAS		REMARKS
				L X D X H	VOLTS	KW/HP	AMPS	HW	CW	WASTE	INDIRECT	SIZE	BTUH/HR	
K	1	TRAY STAND	LTI SPECLINE 28-RTS-F	28 X 30 X 36										
K	2	MILK COOLER / DISPENSER	AVANTCO MC49-HC	49 X 31 X 42	115		1.33							
K	3	HOT UNIT 4 PAN	LTI SPECLINE 60-EFS4-CPA-F	60 X 30 X 36	208		10.8							
K	4	COLD UNIT	LTI SPECLINE 60-CFMX-F	60 X 30 X 36	120	1/3	7.5							
K	5	COLD MERCHANDISING UNIT	LTI SPECLINE 50-CFT-F	50 X 30 X 36	120	1/3	7.5							
K	6	SOLID TOP WEDGE FILLER UNIT	LTI SPECLINE ST-W-90-F	30 X 30 X 36										
K	7	CASHIER STATION	LTI SPECLINE 36-CSE-F	36 X 30 X 36										
K	8	CASHIER CHAIR	BOSS B1-690BK											
K	9	REFRIGERATED CABINET PASS THROUGH	TRUE STR2RPT-2G-2S-HC	53 X 36 X 84	115	1/2	5.9							
K	10	HEATED CABINET PASS THROUGH	WINSTON HOV5-14UV	28 X 34 X 76	120		19.1							
K	11	ICE MACHINE	HOSHIZAKI KM-860MAJ/B-250SF	30 X 28 X 52	208		9.9		1/4	3/4				
K	12	2 COMPARTMENT PREP SINK	ADVANCE TABCO REGALINE 93-42-48-24RL	101 X 30 X 36										
K	13	PRE RINSE FAUCET WALL MOUNT	T & S B-0133-A12B-TEE											
K	14	DISPOSAL	SALVAJOR 200-SA-ARSS		208	2	6.6							6.5" SINK MOUNT
K	15	WIRE SHELF STAINLESS WALL MOUNT	METRO 1872 STAINLESS STEEL	72 X 18										
K	16	MEAT SINK TABLE	ADVANCE TABCO REGALINE 93-41-24-36L	66 X 32 X 36										PROVIDE 20x20x5 S.S. DRAWER
K	17	HOSE REEL	T & S B-7132-01											
K	18	WORK TABLE	ADVANCE TABCO US-30-72	72 X 30 X 36										PROVIDE (2) 20x20x5 S.S. DRAWERs
K	19	WORK TABLE	ADVANCE TABCO US-30-96	96 X 30 X 36										PROVIDE (2) 20x20x5 S.S. DRAWERs
K	20	ELECTRIC REELS	BY ELECTRICAL CONTRACTOR											VERIFY EXACT MOUNTING LOCATION
K	21	TRENCH DRAIN	FABRICATED PER DETAILS											
K	22	GAS BRAISING PAN	GROEN BPM-40G / A/ C2T	48 X 40 X 44	115		5					3/4	144,000	NATURAL GAS 7" WC
K	23	6 BURNER GAS RANGE	SOUTHBEND 4361D	36 X 36 X 37	115		5.9					3/4	243,000	NATURAL GAS 7" WC
K	24	DOUBLE GAS CONVECTION OVEN	BLODGETT ZEPHAIRE-100-G-ES	38 X 37 X 71	115	3/4 X 2	8 X 2					3/4 X 2	90,000	NATURAL GAS 7" WC
K	25	DOUBLE GAS COMBI STEAMER	BLODGETT BCX-14G	41 X 38 X 70	115		12 X 2		3/4		2	3/4	115,000	NATURAL GAS 7" WC
K	26	EXHAUST HOOD	BY MECHANICAL CONTRACTOR											
K	27	AUTO FIRE SUPPRESSION SYSTEM	BY MECHANICAL CONTRACTOR											
K	28	WALK IN COOLER	KOLPAK											
K	29	WALK IN FREEZER	KOLPAK											
K	30	EPOXY WIRE SHELVING	METRO, SUPER ERECTA EZ2448NK3-4	48 X 24 X 74										EPOXY COATED
K	31	DUNNAGE FLATS	METRO BOWTIE POLYMER	22 X 48										
K	32	NO. 10 CAN RACKS / ALUM / STATIONARY	STEELTON CNRK162KD	25 X 35 X 72										
K	33	RESIDENTIAL WASHER	PROVIDE UNDER RES KIT ALLOW											NOT IN KIT EQUIPMENT SUBCONTRACT
K	34	RESIDENTIAL DRYER	PROVIDE UNDER RES KIT ALLOW											NOT IN KIT EQUIPMENT SUBCONTRACT
K	35	REFRIGERATOR	TRUE T-49-HC	54 X 30 X 78	115	1/2	5.4							
K	36	UTILITY CART	CAMBRO BC235	37 X 22 X 35										
K	37	3 COMPARTMENT SINK / DISH TABLE	ADVANCE TABCO REGALINE 93-43-72-36RL	151 X 32 X 36										
K	38	SINK HEATER	HATCO 3CS-9	8 X 17 X 13	208		33							
K	39	SWING SPOUT WALL MOUNT	T & S B-0231											
K	40	CASTER CART 4 SHELF WITH COVER	METRO 4 TIER ADJ CHROME FINISH	36 X 24 X 69										PROVIDE METRO ESD CART COVER EACH
K	41	AUTO POTWASHER	JACKSON TEMPSTAR VER	32 X 31 X 82	208	1	46		3/4	1 1/2				VENTLESS WITH ENERGY RECOVERY
K	42	DISH RETURN TABLE WITH PREWASH	FABRICATED PER DETAILS / DIMS											
K	43	TRAY RETURN WINDOW	COOKSON CD-10 PUSH UP	PER OPENING										
K	44	ONE COMPARTMENT SINK	REGALINE 93-61-18-36R AND L	60 X 28 X 34										THREE RH AND THREE LH
K	45	TWO COMPARTMENT SINK	FABRICATED PER DETAILS	132 X 30 X 34										ONE EACH ART ROOM

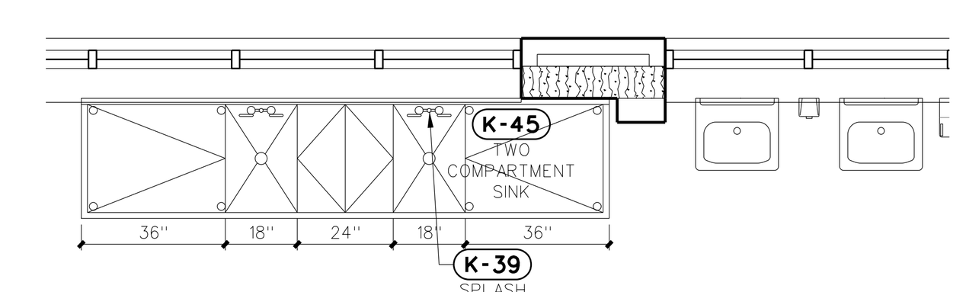
NOTE: PROVIDE EQUIPMENT AS SCHEDULED FOR ART ROOMS AND CONCESSIONS AREAS (AT LOBBY AND BALLFIELDS)



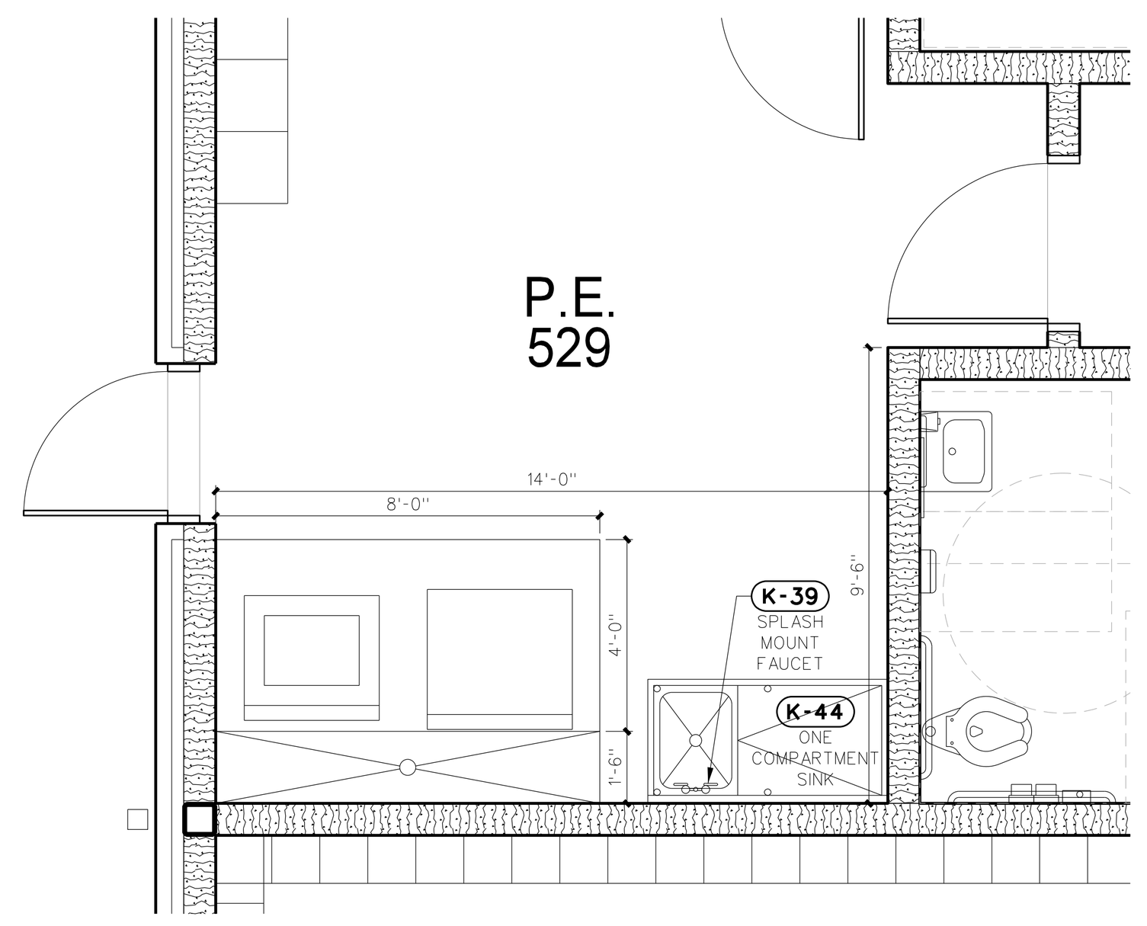
101.5 ENLARGED PLAN - MUSIC 220 / BAND 522
SCALE: 1/4" = 1'-0"



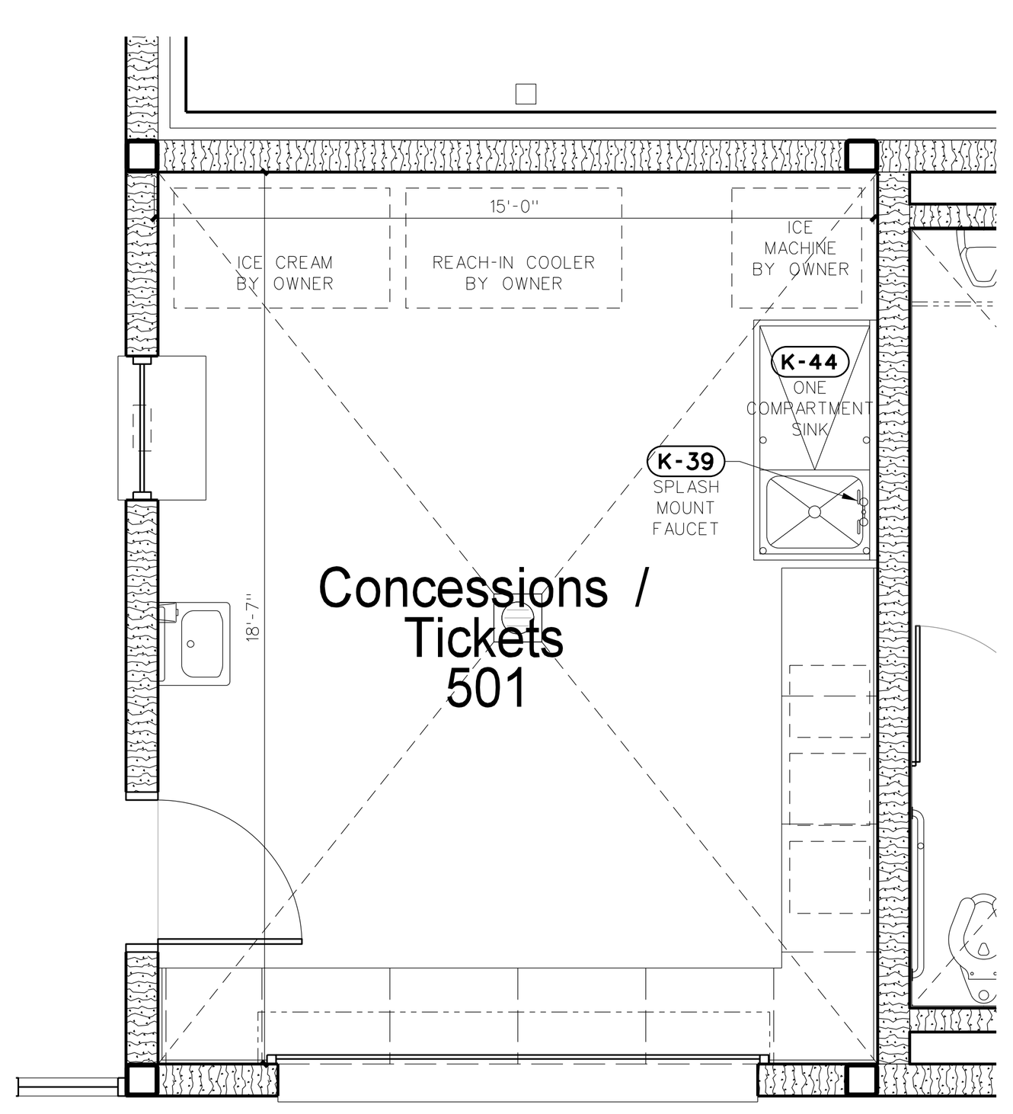
101.7 ENLARGED PLAN - STEM / BIOTECH 336
SCALE: 1/4" = 1'-0"



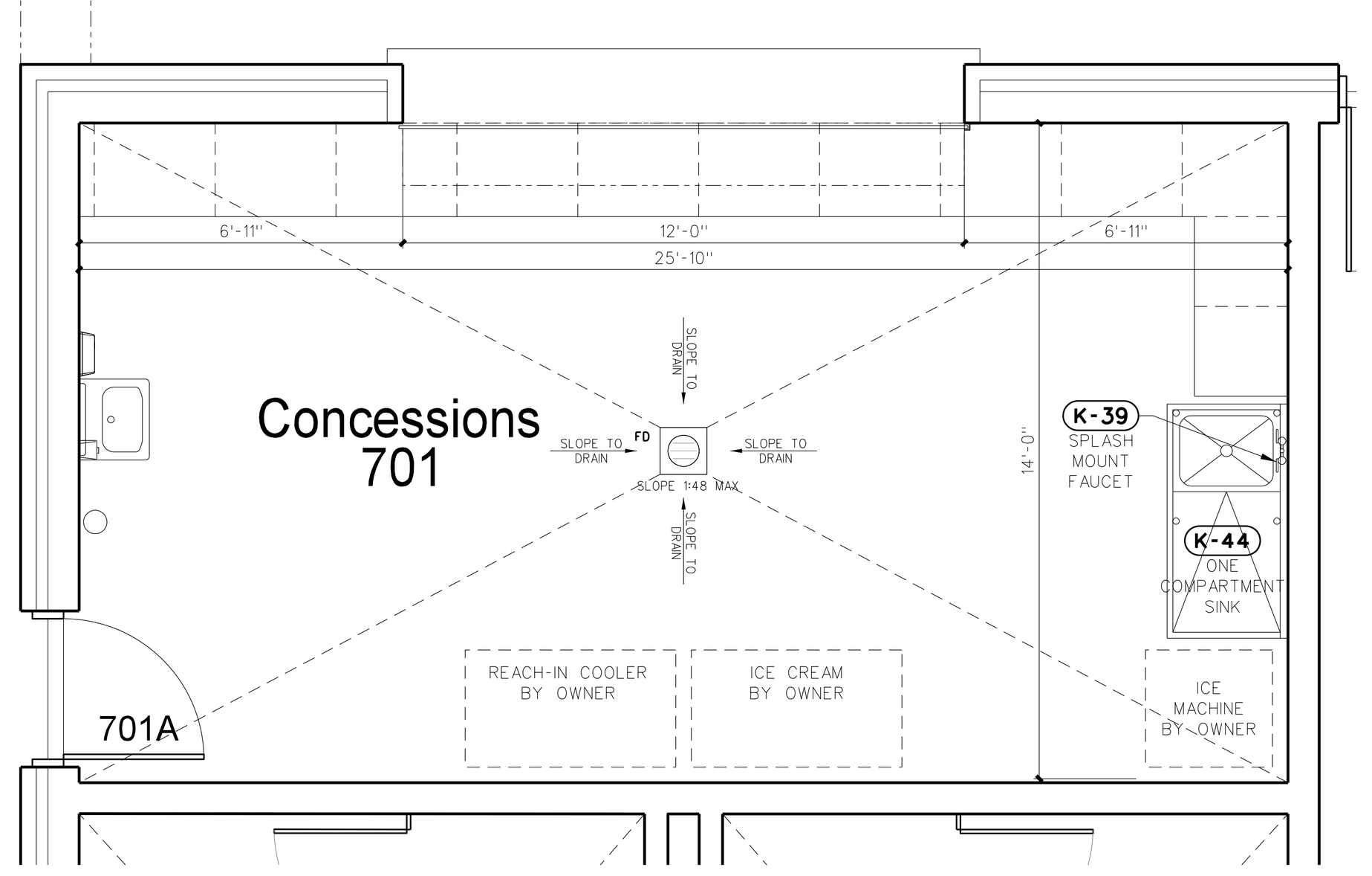
101.6 ENLARGED PLAN - ART 204 / 206
SCALE: 1/4" = 1'-0"



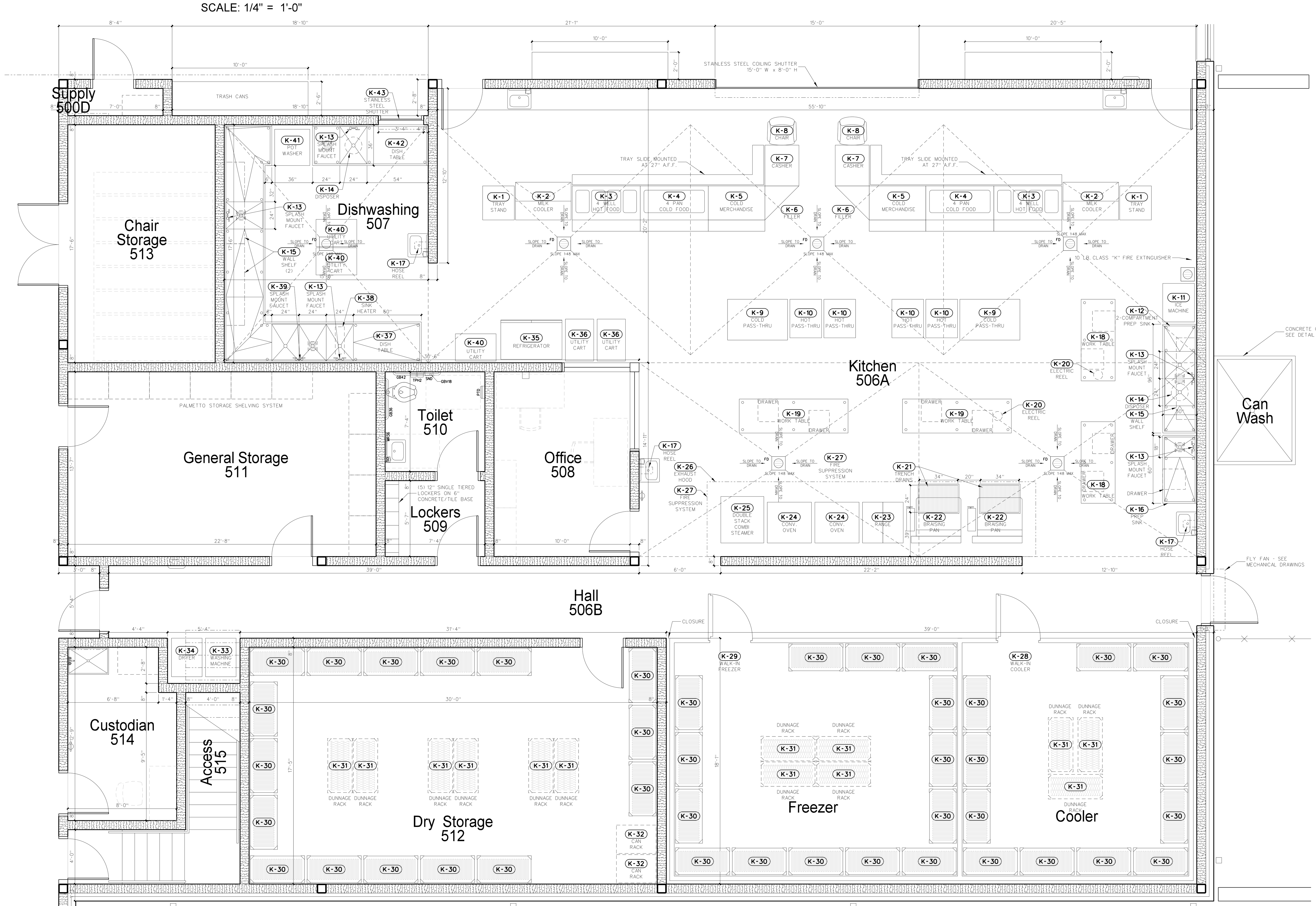
101.4 ENLARGED PLAN - P.E. 529
SCALE: 1/4" = 1'-0"



101.3 ENLARGED PLAN - CONCESSIONS 501
SCALE: 1/4" = 1'-0"



101.2 ENLARGED PLAN - CONCESSIONS 701
SCALE: 1/4" = 1'-0"



NOTE:
FOOD EQUIPMENT CONTRACTOR TO PROVIDE DIMENSIONED FOUGH-IN DRAWING FOR USE BY ALL TRADES PROVIDING EQUIPMENT UTILITIES (APPROVED BY ARCHITECT / ENGINEER)

101.1 ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"

Revision
No. Date:

Hite associates
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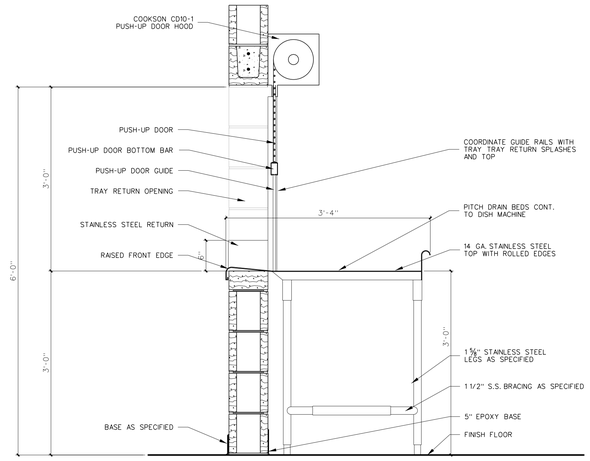
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

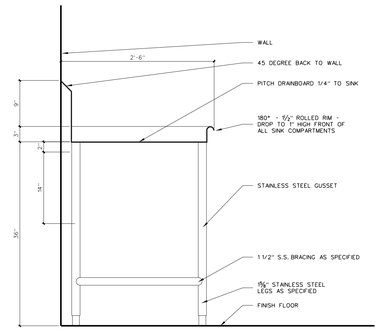
HITE ASSOCIATES, P.A. 418 GREENVILLE
JAMES GRAY HITE ARCHITECT GREENVILLE

Perquimans County Intermediate School
PERQUIMANS COUNTY SCHOOLS
Winfall Boulevard / Winfall / North Carolina / 27944

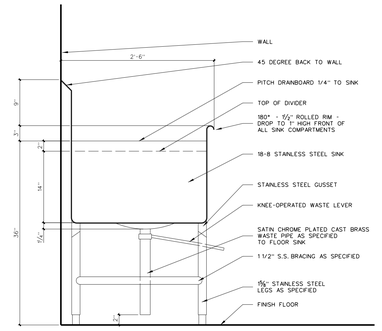
Project No. 22303
Date: 10 August 2024
Drawing no.
K
101



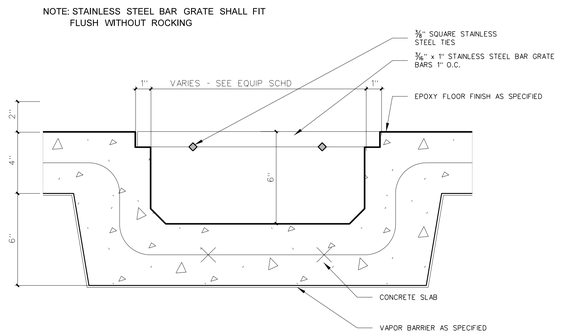
102.4 DIRTY DISH RETURN
SCALE: 1" = 1'-0"



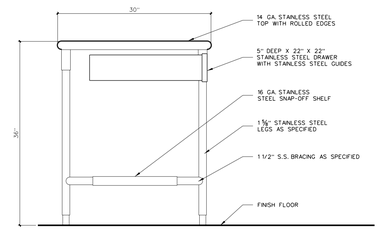
102.3 TYPICAL DRAINBOARD SECTION
SCALE: 1" = 1'-0"



102.2 TYPICAL SINK SECTION
SCALE: 1" = 1'-0"



102.5 TRENCH GRATE DETAIL
SCALE: NONE



102.1 S.S. WORK TABLE
SCALE: 1" = 1'-0"

No.	Date:	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-0333

HITE ASSOCIATES, P.C. — REGISTERED ARCHITECTURAL CORPORATION — NORTH CAROLINA — LICENSE NUMBER 4118 — GREENVILLE

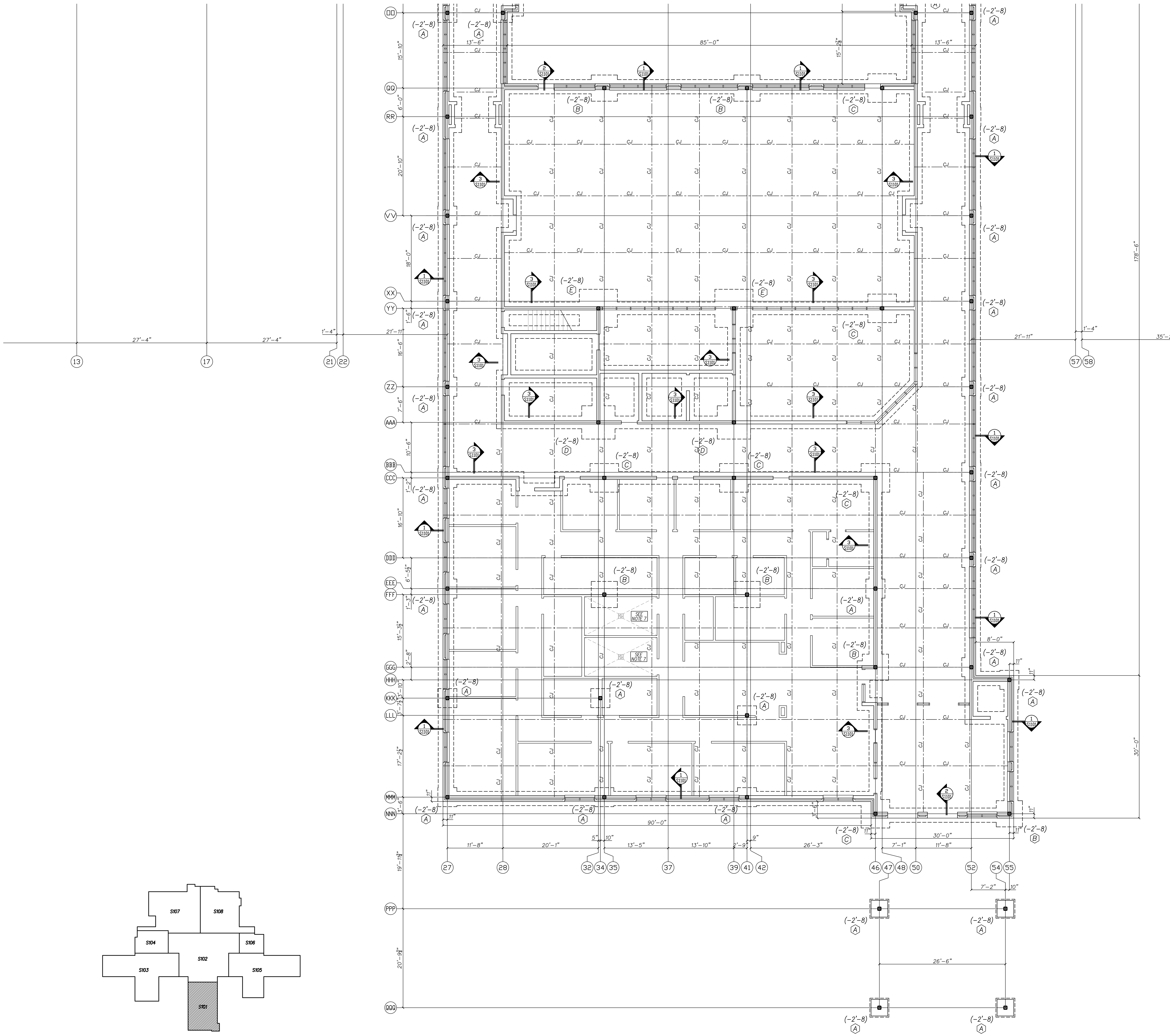
JAMES GRAY HITE — REGISTERED ARCHITECT — NORTH CAROLINA — LICENSE NUMBER 4118 — GREENVILLE

Perquimans County Intermediate School
PERQUIMANS COUNTY SCHOOLS
Winfall Boulevard / Winfall / North Carolina / 27944

Project No.
22303

Date:
10 August 2024

Drawing no.
K
102



KEY PLAN

FOUNDATION PART PLAN

1/8" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–   ) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

11.) FLOOR SLAB IN GYM AREA SHALL BE DEPRESSED 2 17/32" TO RECEIVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE.

12.) SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 6 & 8/S1101 AND ARCHITECTURAL DRAWINGS. SEE 16/S1101 FOR BOLLARD DETAIL. LOCATE ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.

13.) ALL COLUMNS = HSS 8 x 8 x 1/4, TYP. U.O.N.

No.	Date:	Revision

Hite associates
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2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

NC LIC C-1050
QED
QUEEN ENGINEERING & DESIGN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 101

FOUNDATION PART PLAN

1/8" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

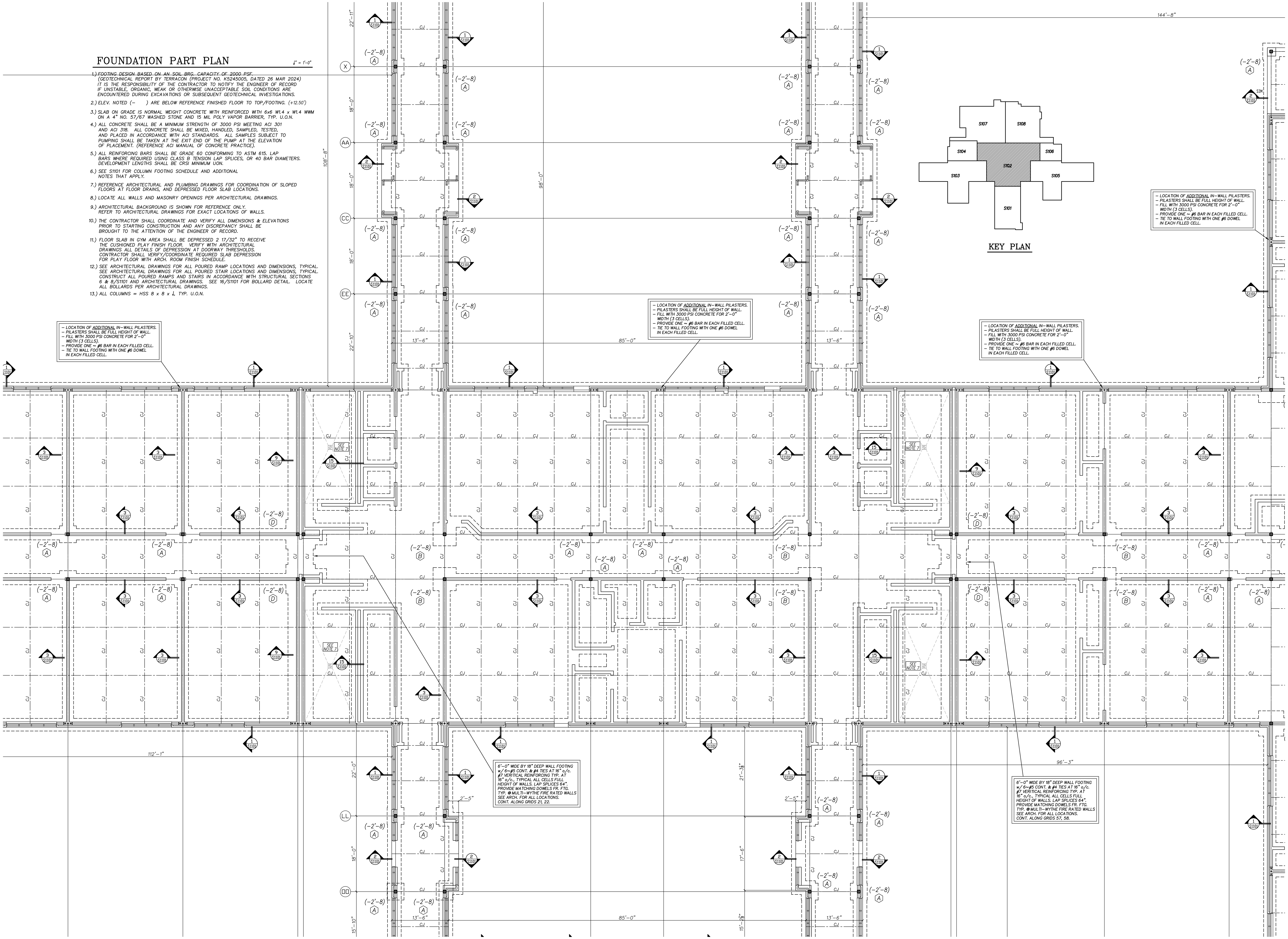
9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

11.) FLOOR SLAB IN GYM AREA SHALL BE DEPRESSED 2 17/32" TO RECEIVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE.

12.) SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 6 & 8/S1101 AND ARCHITECTURAL DRAWINGS. SEE 16/S1101 FOR BOLLARD DETAIL. LOCATE ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.

13.) ALL COLUMNS = HSS 8 x 8 x 1/4, TYP. U.O.N.



KEY PLAN

Revision

No. Date:

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NC LIC C-1050
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QUEEN ENGINEERING & DESIGN
5530 MUNFORD RD, SUITE # 115
RALEIGH, NORTH CAROLINA 27612
PHONE (919) 420-0480
FAX (919) 420-0489

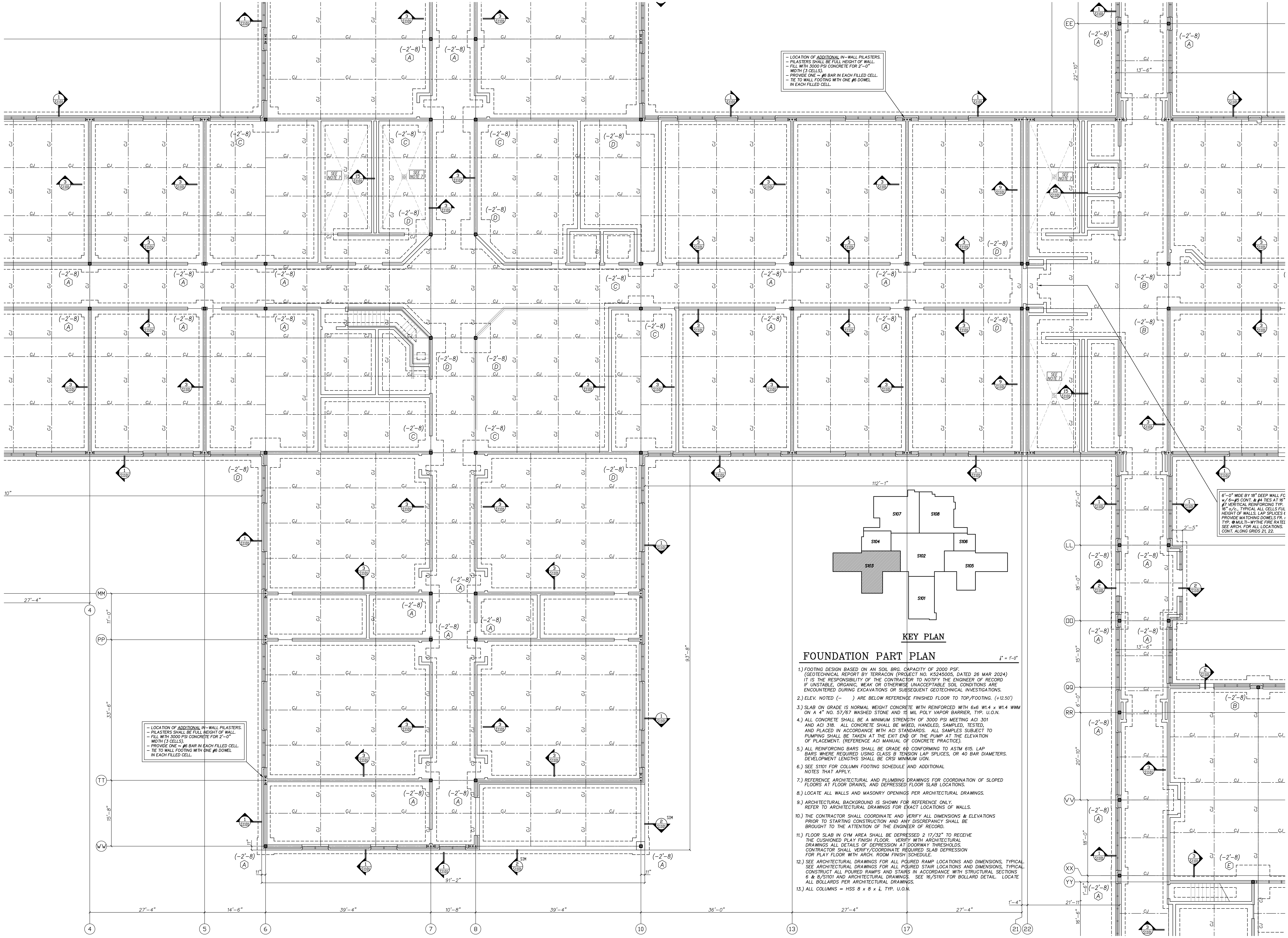
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 102



FOUNDATION PART PLAN

1/8" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

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13.) ALL COLUMNS = HSS 8 x 8 x 1/4, TYP. U.O.N.

No. | Date: | Revision

Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

QUEEN ENGINEERING & DESIGN
NC LIC C-1050

BRUCE L. QUEEN
ENGINEER
SEAL 18991
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 103

FOUNDATION PART PLAN

$\frac{1}{8}$" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

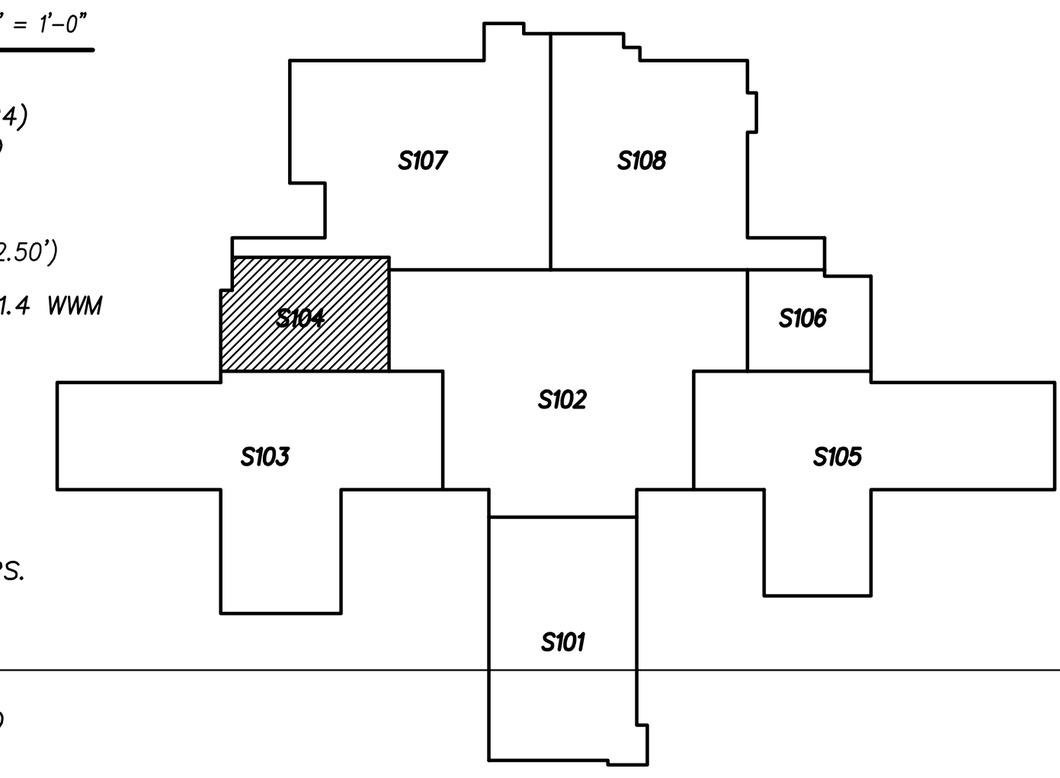
9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

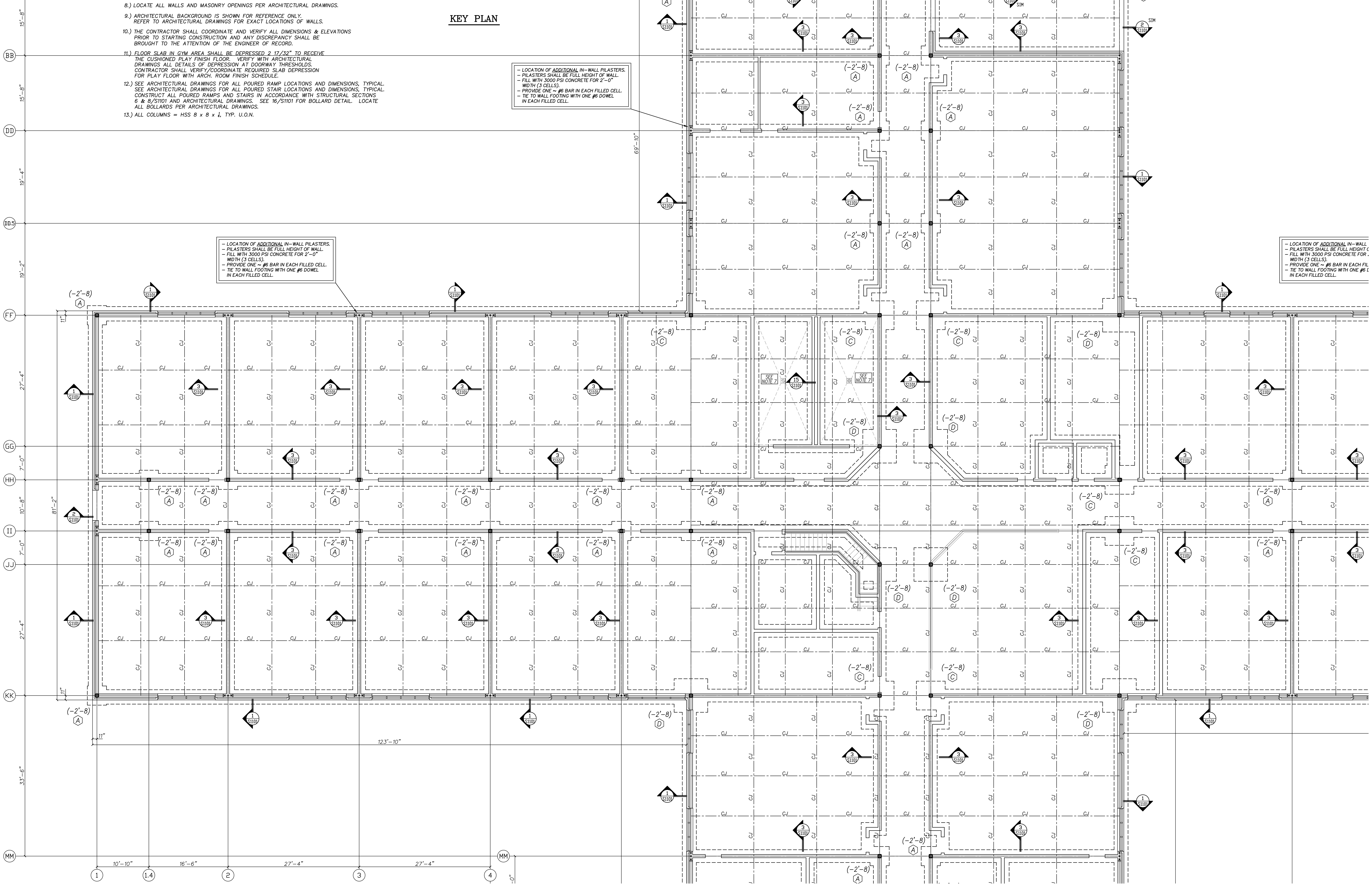
11.) FLOOR SLAB IN GYM AREA SHALL BE DEPRESSED 2 17/32" TO RECEIVE THE CUSHIONED PLAY FINISH FLOOR. VERIFY WITH ARCHITECTURAL DRAWINGS ALL DETAILS OF DEPRESSION AT DOORWAY THRESHOLDS. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE.

12.) SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 6 & 8/S1101 AND ARCHITECTURAL DRAWINGS. SEE 16/S1101 FOR BOLLARD DETAIL. LOCATE ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.

13.) ALL COLUMNS = HSS 8 x 8 x $\frac{1}{4}$, TYP. U.O.N.



KEY PLAN



Revision

No. Date:

Hite associates
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QUEEN ENGINEERING & DESIGN
NC LIC C-1050

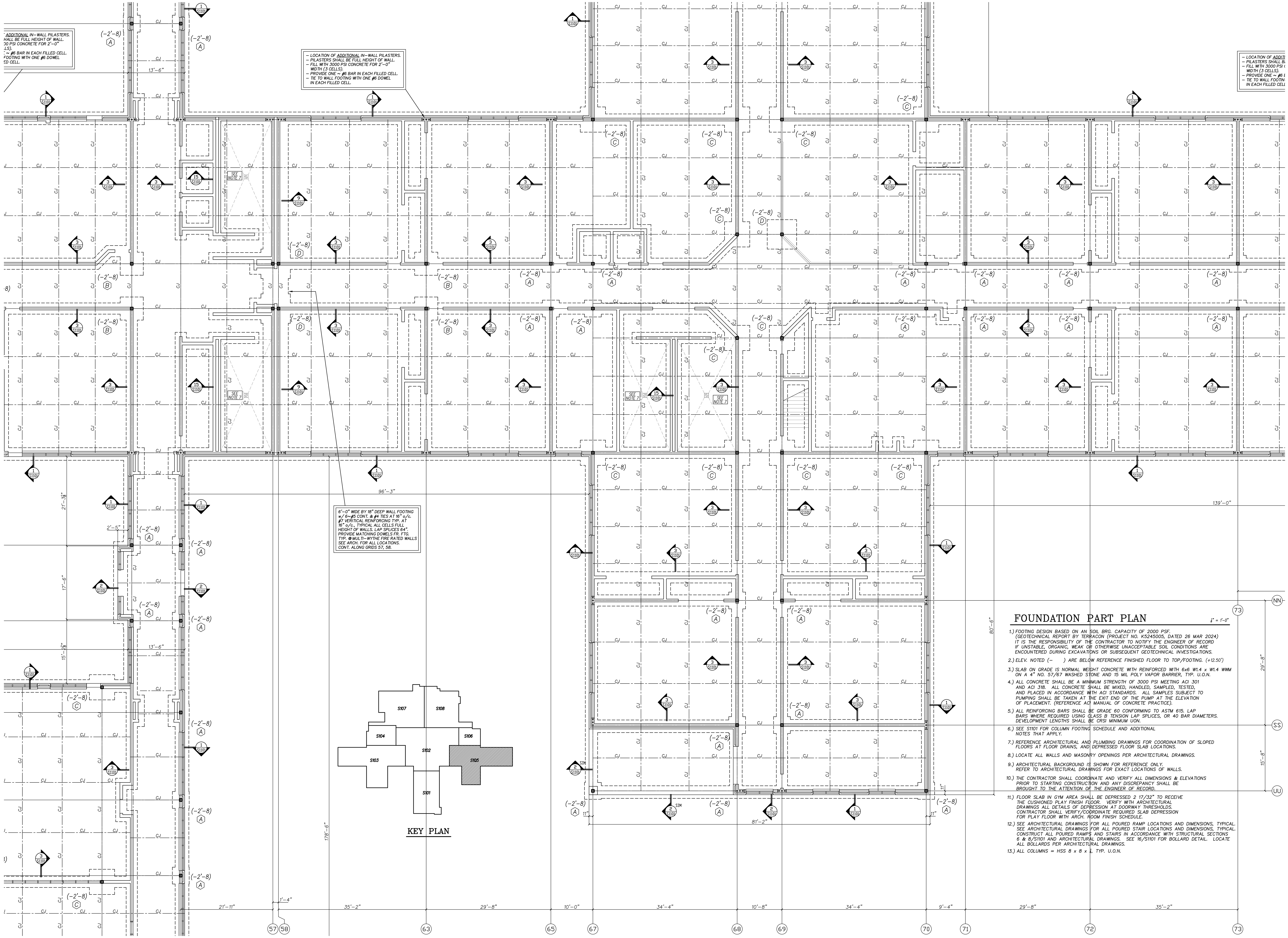
BRUCE L QUEEN
ENGINEER
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 104



FOUNDATION PART PLAN

1/8" = 1'–0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–   ) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

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12.) SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 6 & 8/S1101 AND ARCHITECTURAL DRAWINGS. SEE 16/S1101 FOR BOLLARD DETAIL. LOCATE ALL BOLLARDS PER ARCHITECTURAL DRAWINGS.

13.) ALL COLUMNS = HSS 8 x 8 x 1/4, TYP. U.O.N.

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FAX (919) 420-0469

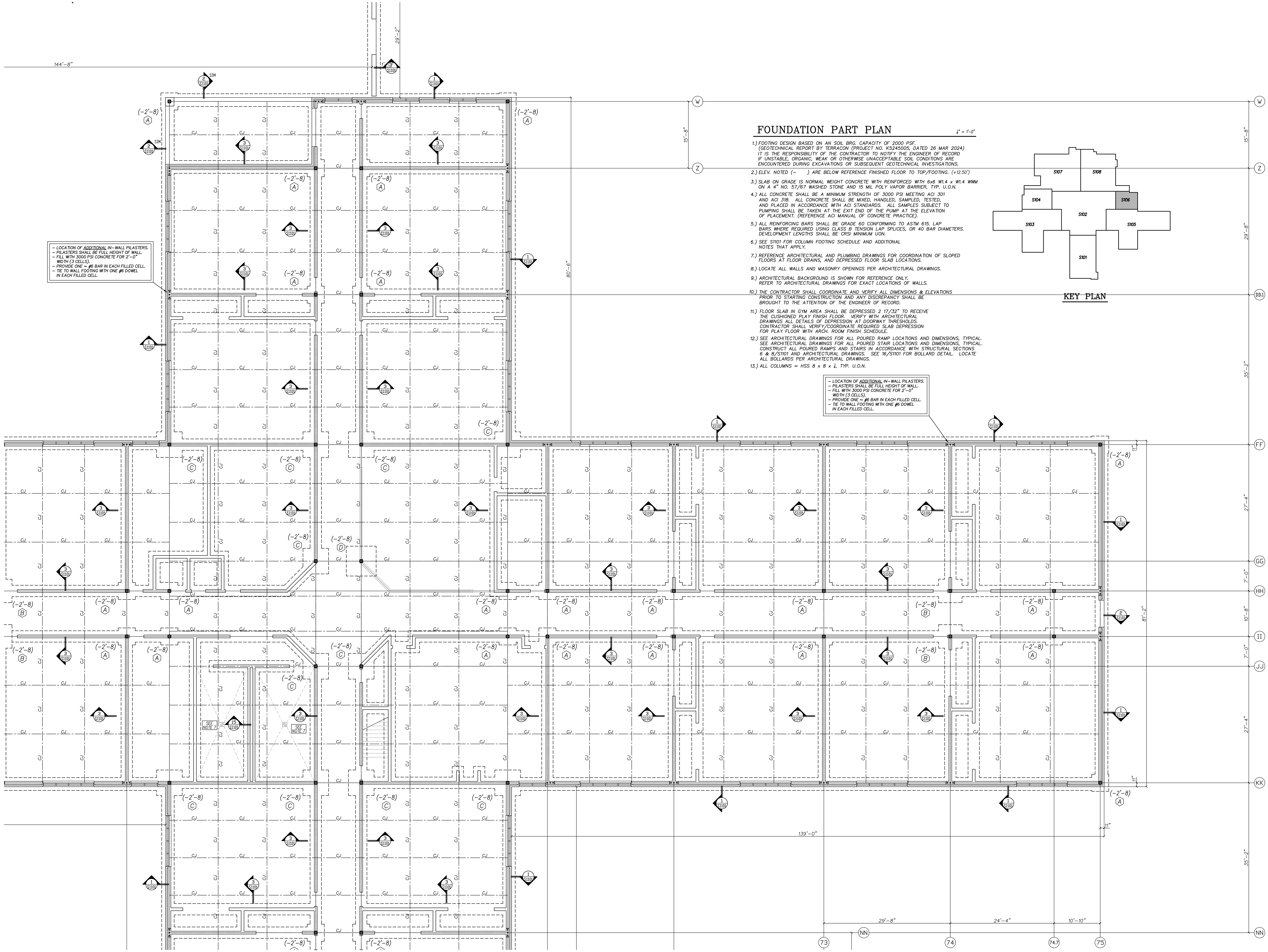
NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 105



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13.) ALL COLUMNS = HSS 8 x 8 x 1/4, TYP. U.O.N.

- LOCATION OF ADDITIONAL IN-WALL PILASTERS.
- PILASTERS SHALL BE FULL HEIGHT OF WALL.
- FILL WITH 3000 PSI CONCRETE FOR 2'-0" WIDTH (3 CELLS).
- PROVIDE ONE ~ #6 BAR IN EACH FILLED CELL.
- TIE TO WALL FOOTING WITH ONE #6 DOWEL IN EACH FILLED CELL.

KEY PLAN

No.	Date:	Revision

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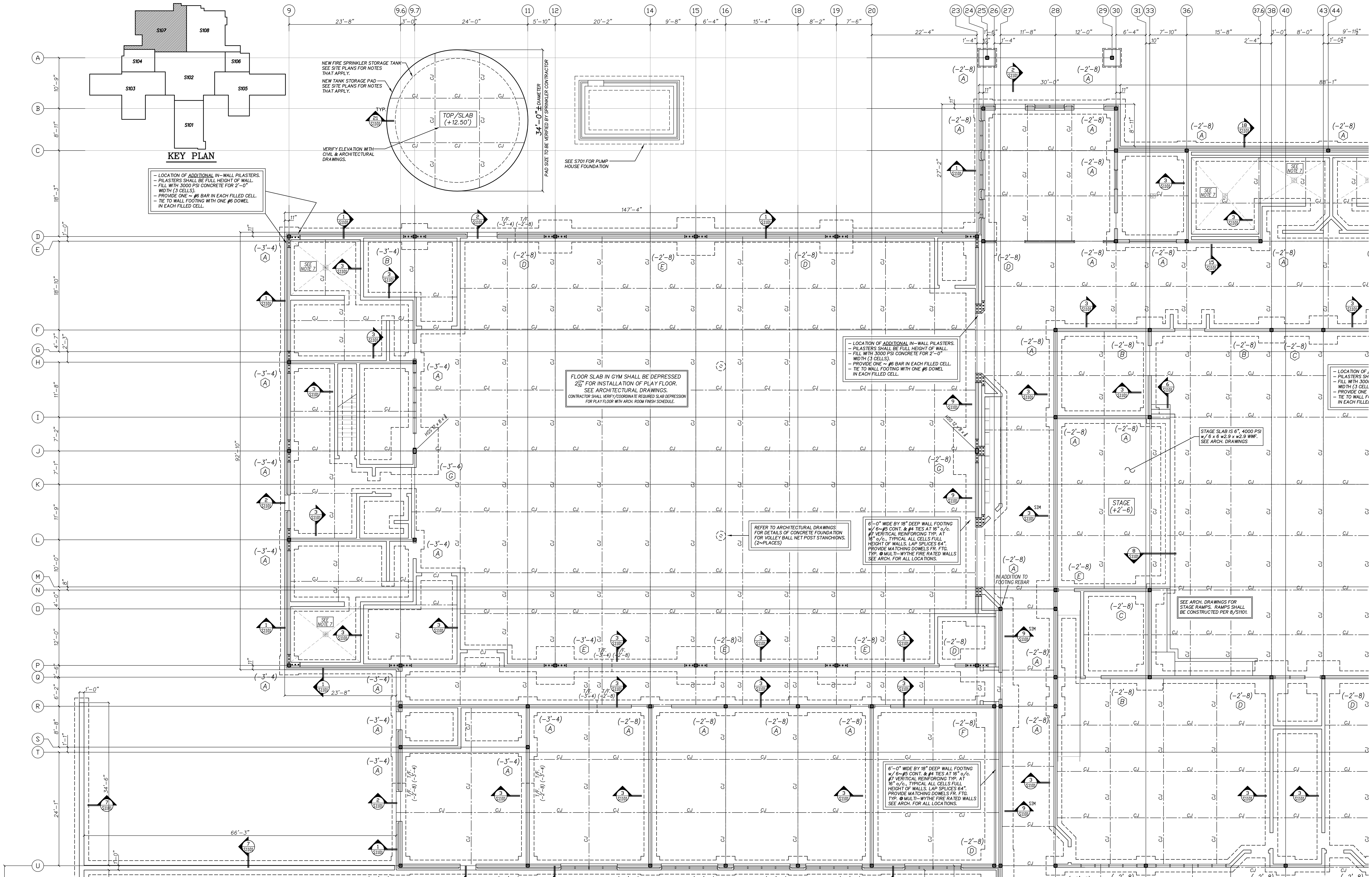
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 106



FOUNDATION PART PLAN

1/8" = 1'-0"

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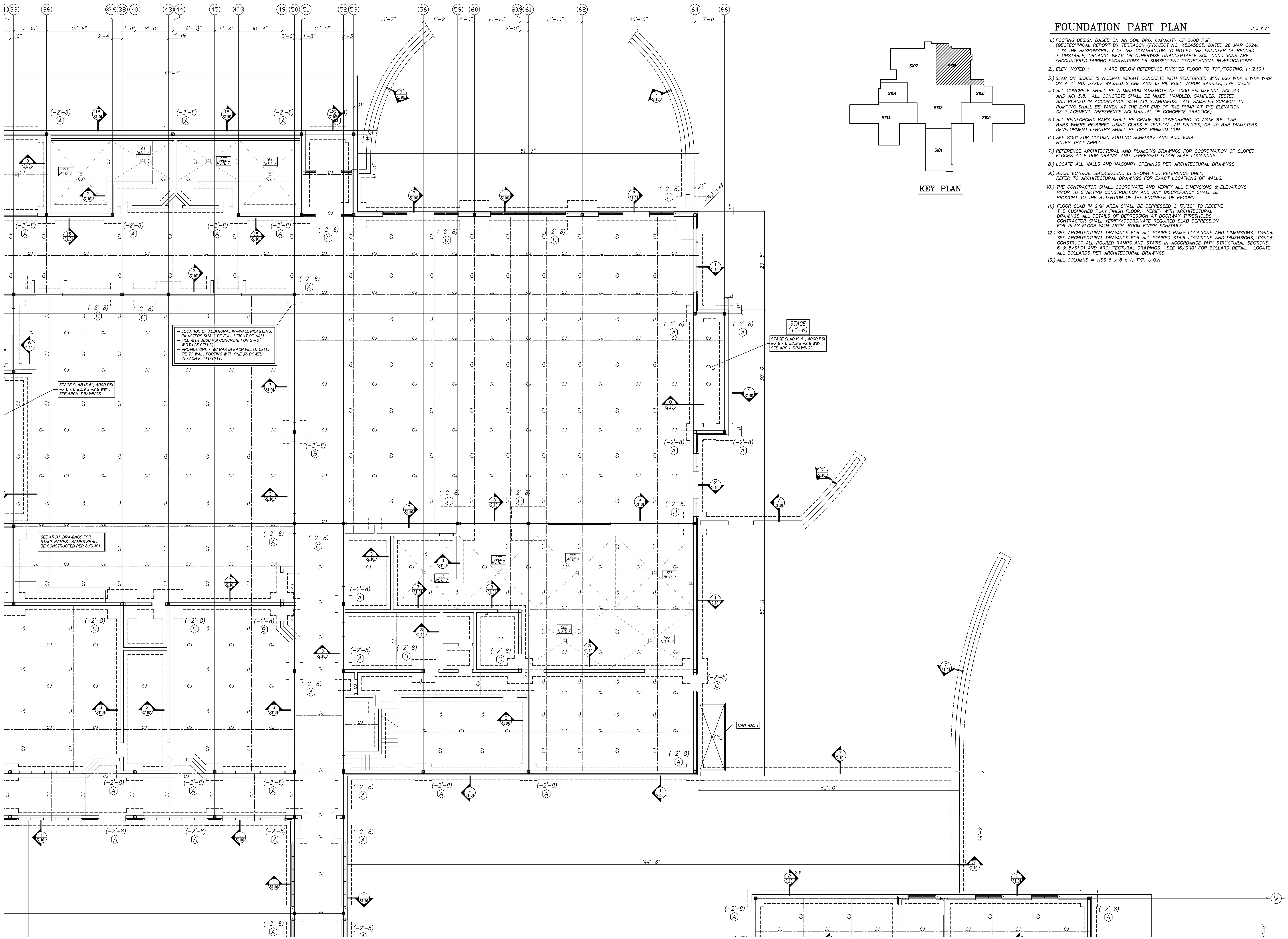
BRUCE L. QUEEN, ENGINEER, SEAL 18991
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S107



KEY PLAN

FOUNDATION PART PLAN

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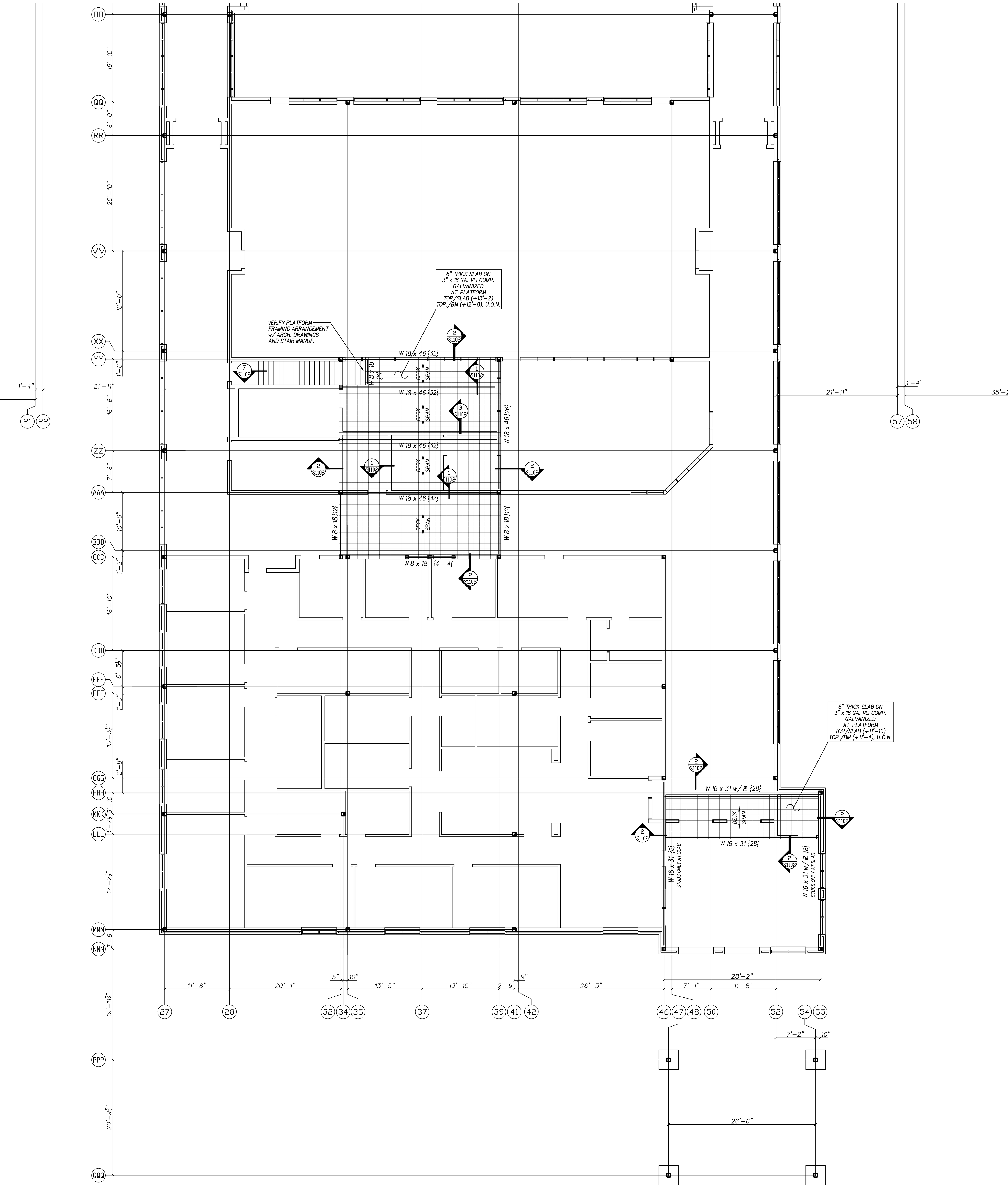
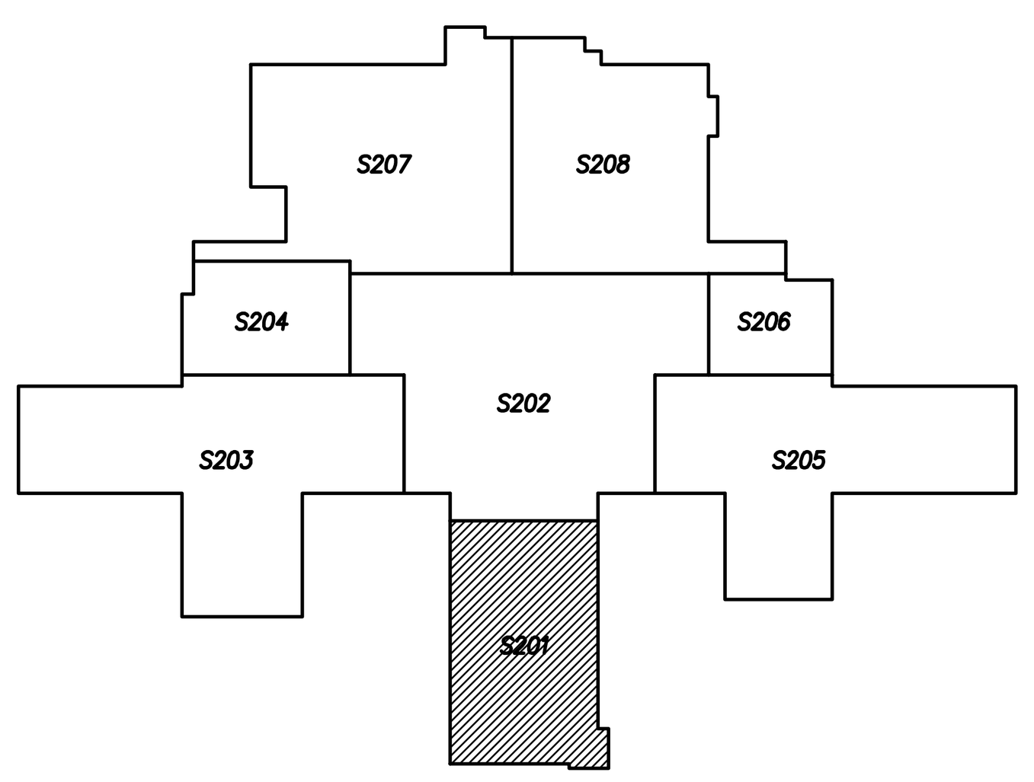
BRUCE L. QUEEN, ENGINEER, SEAL 18991
22 AUG 2024

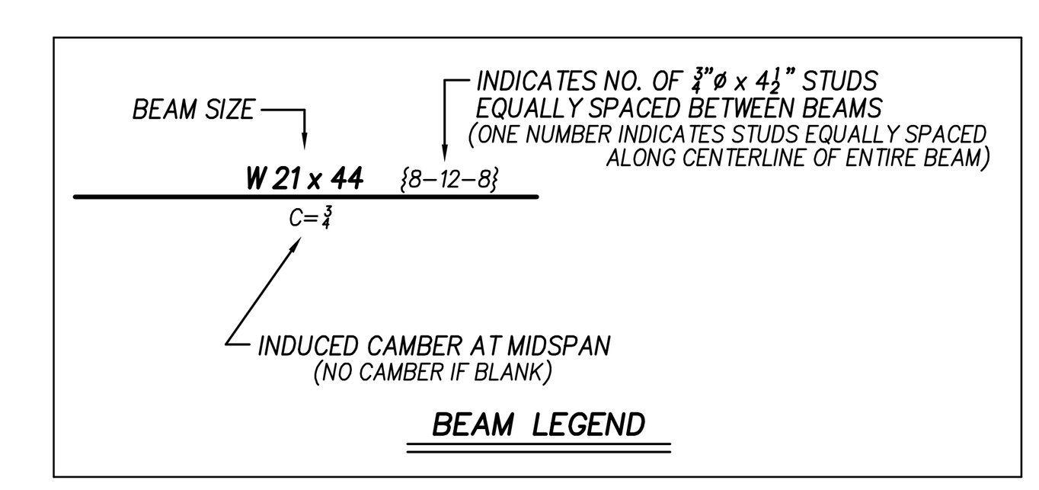
New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 108





KEY PLAN



INTERMEDIATE FRAMING PART PLAN

1/8" = 1'-0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
3) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE. REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
4.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
5.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
6.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'-6"
7.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS. WHERE REQUIRED, SEE S1102 FOR ALL NEW CMU LINTELS.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 201

BEAM LEGEND

- BEAM SIZE: W 21 x 44
- {8–12–8}: INDICATES NO. OF 3/4"Ø x 4 1/2" STUDS EQUALLY SPACED BETWEEN BEAMS (ONE NUMBER INDICATES STUDS EQUALLY SPACED ALONG CENTERLINE OF ENTIRE BEAM)
- C=3/4: INDUCED CAMBER AT MIDSPAN (NO CAMBER IF BLANK)

INTERMEDIATE FRAMING PART PLAN

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1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
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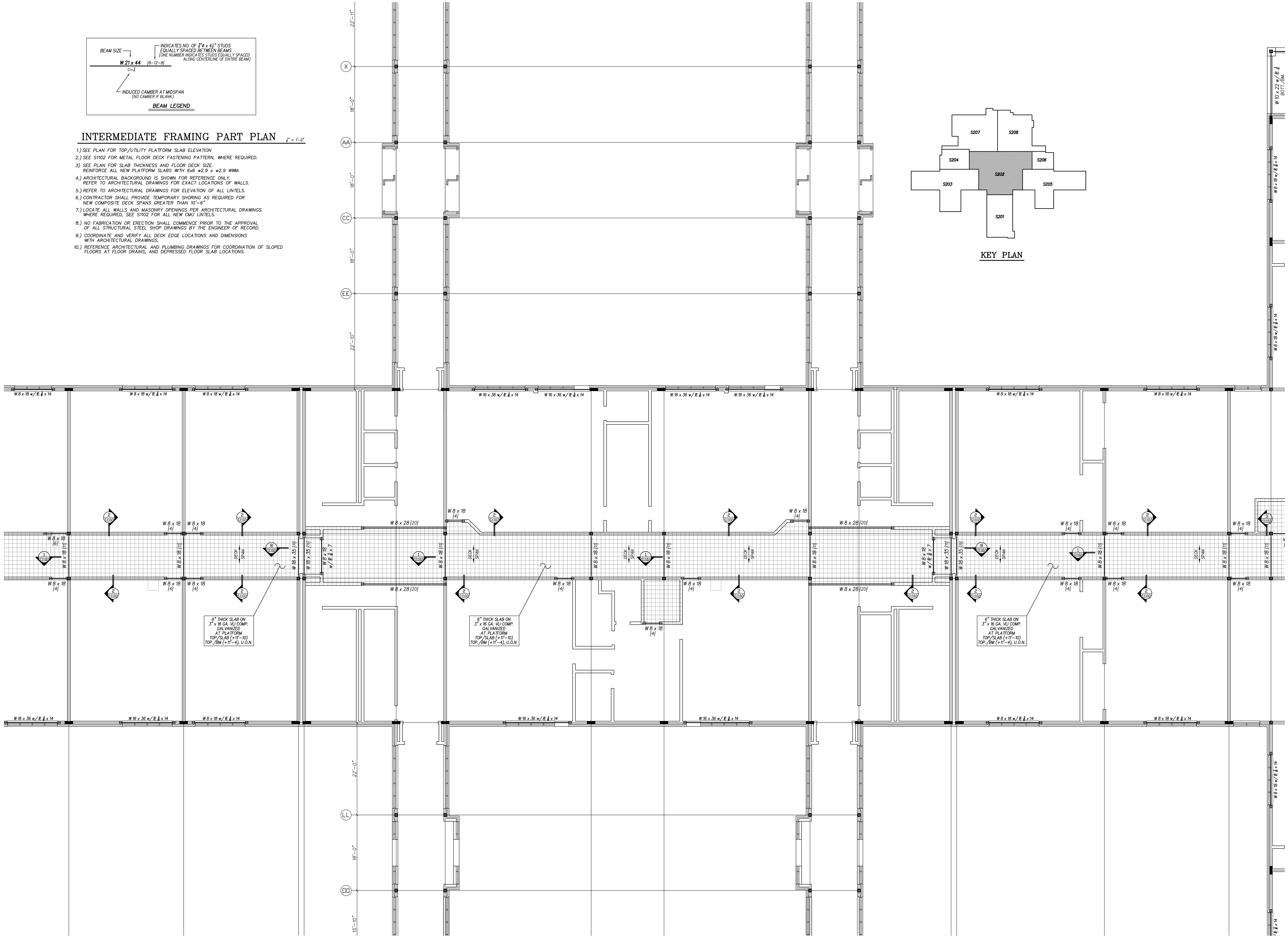

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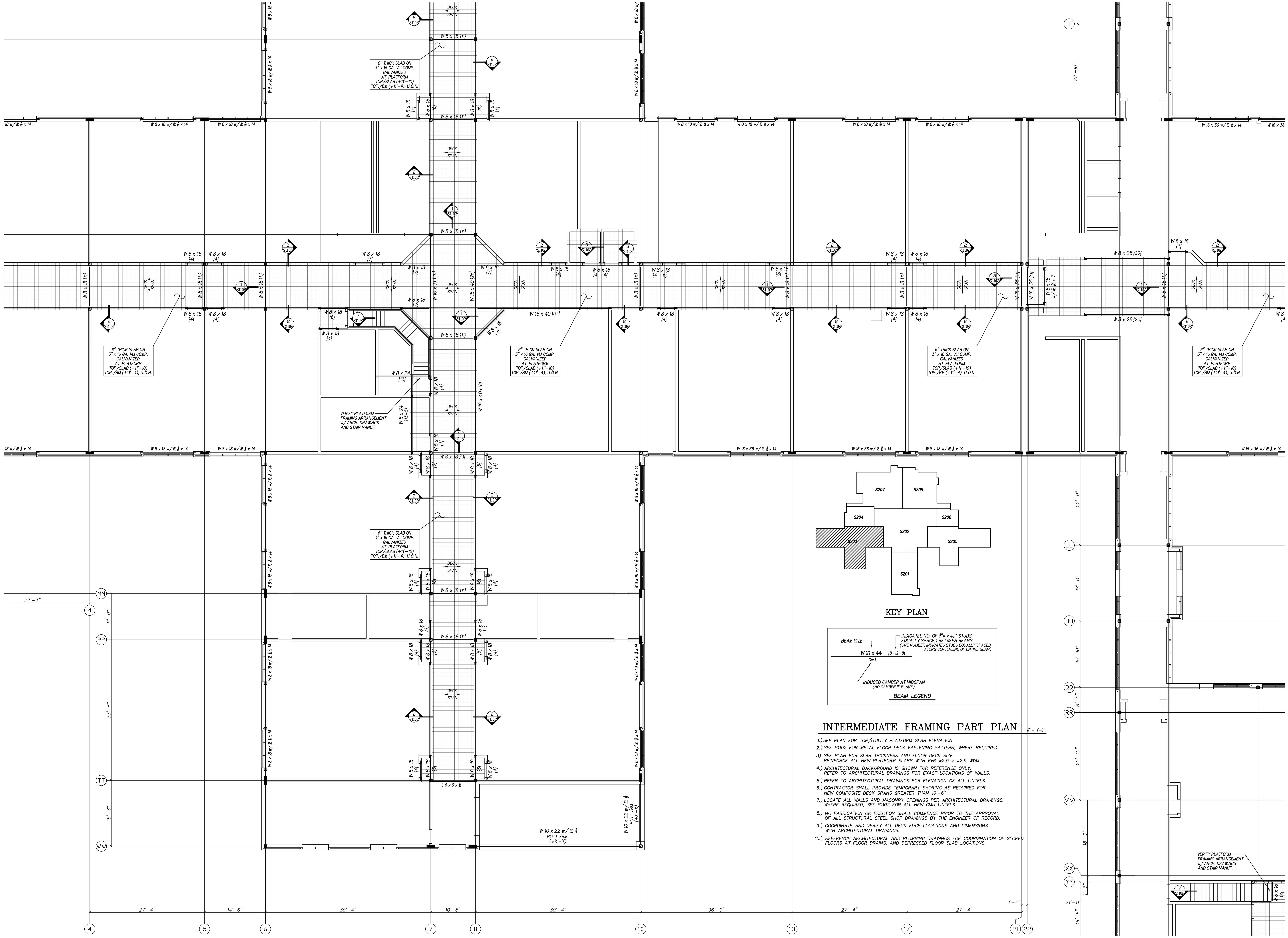

KEY PLAN

BEAM LEGEND

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5.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
6.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'–6"
7.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS. WHERE REQUIRED, SEE S1102 FOR ALL NEW CMU LINTELS.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

No.	Date:	Revision

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22 AUG 2024

New Construction
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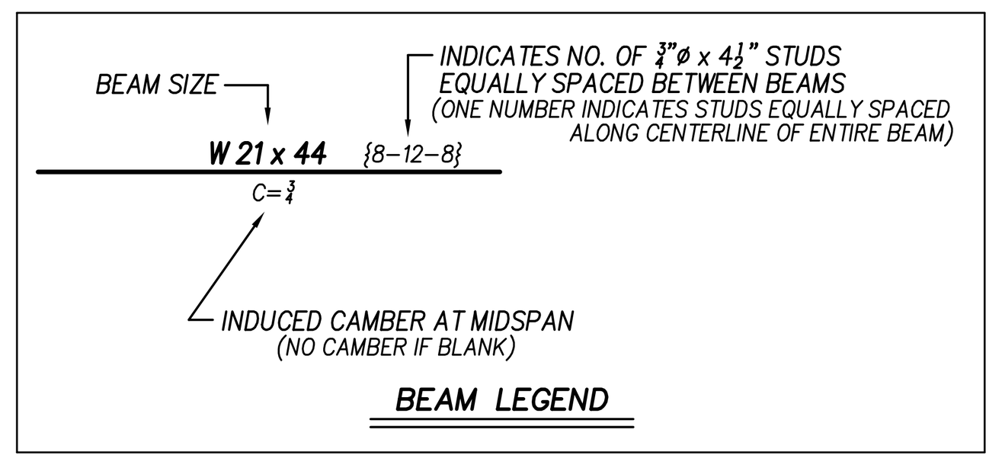
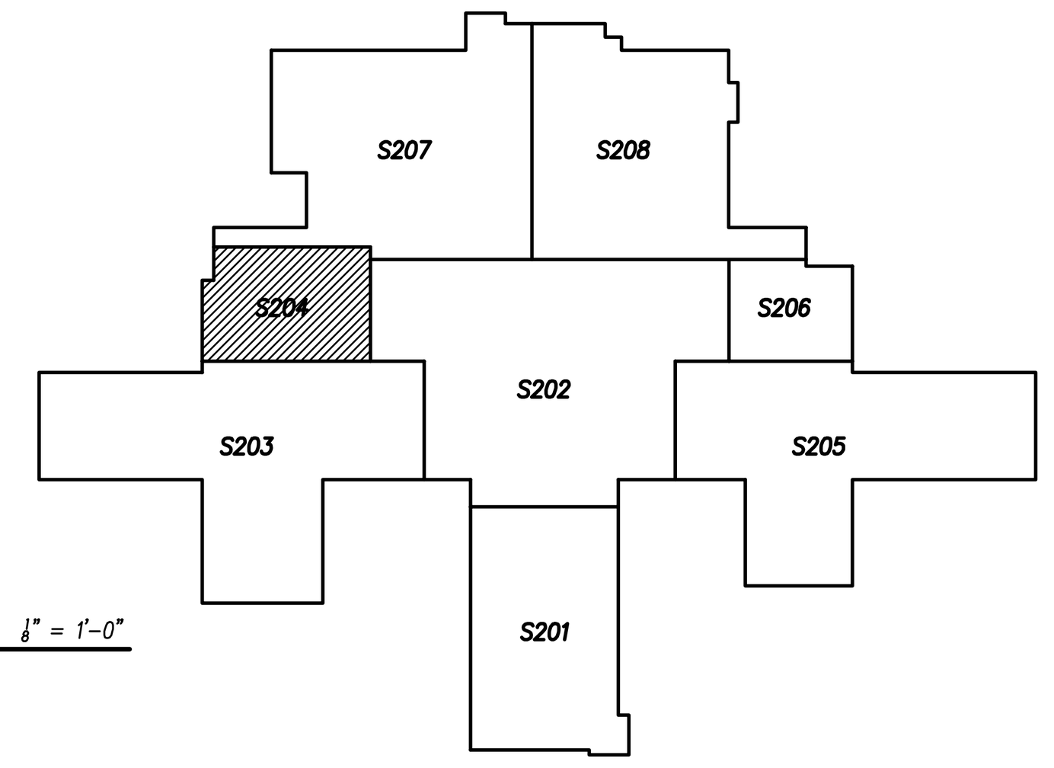
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 203



BEAM LEGEND



KEY PLAN

INTERMEDIATE FRAMING PART PLAN

1/8" = 1'–0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
3.) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE. REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
4.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
5.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
6.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'–6"
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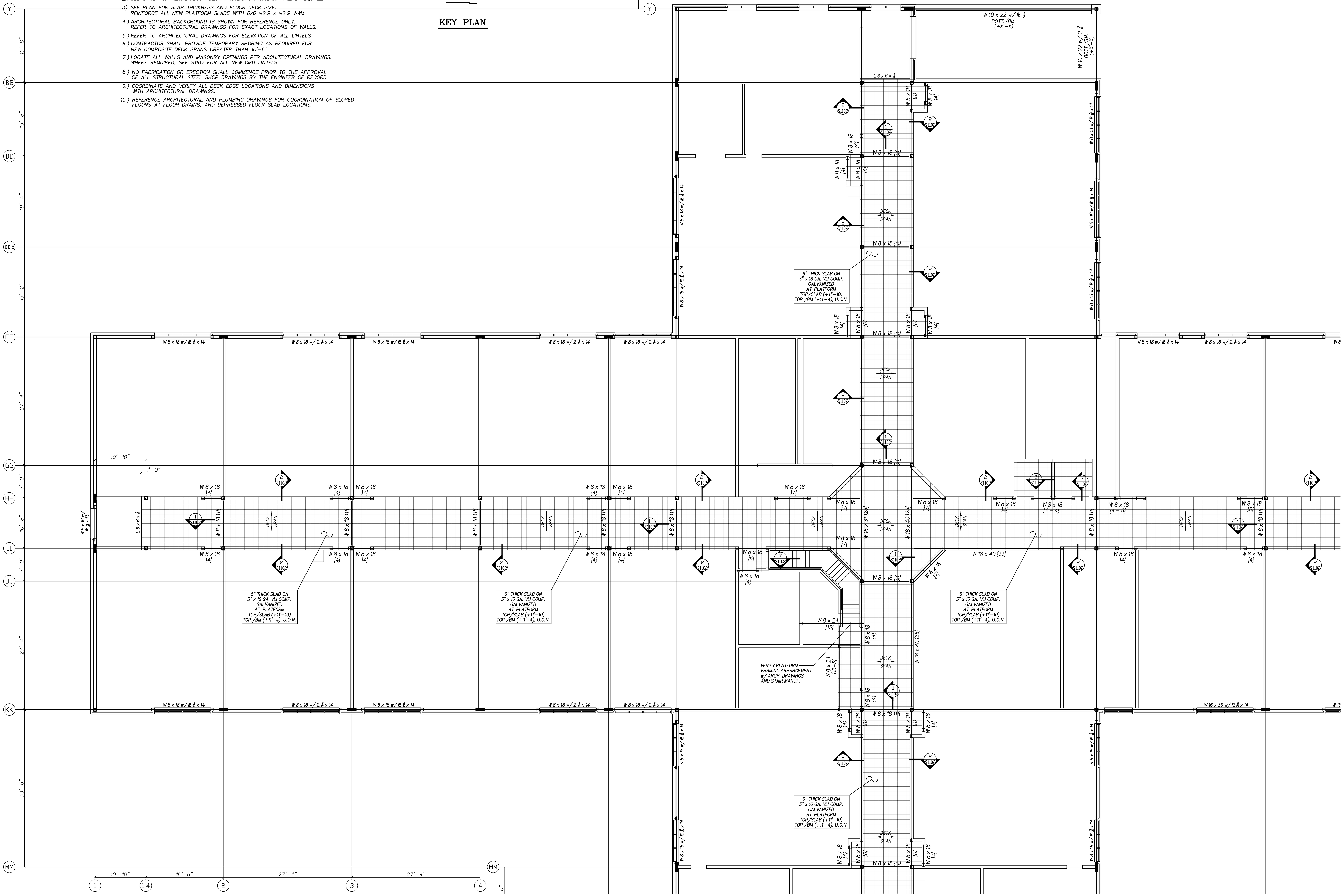
9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.



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22 AUG 2024

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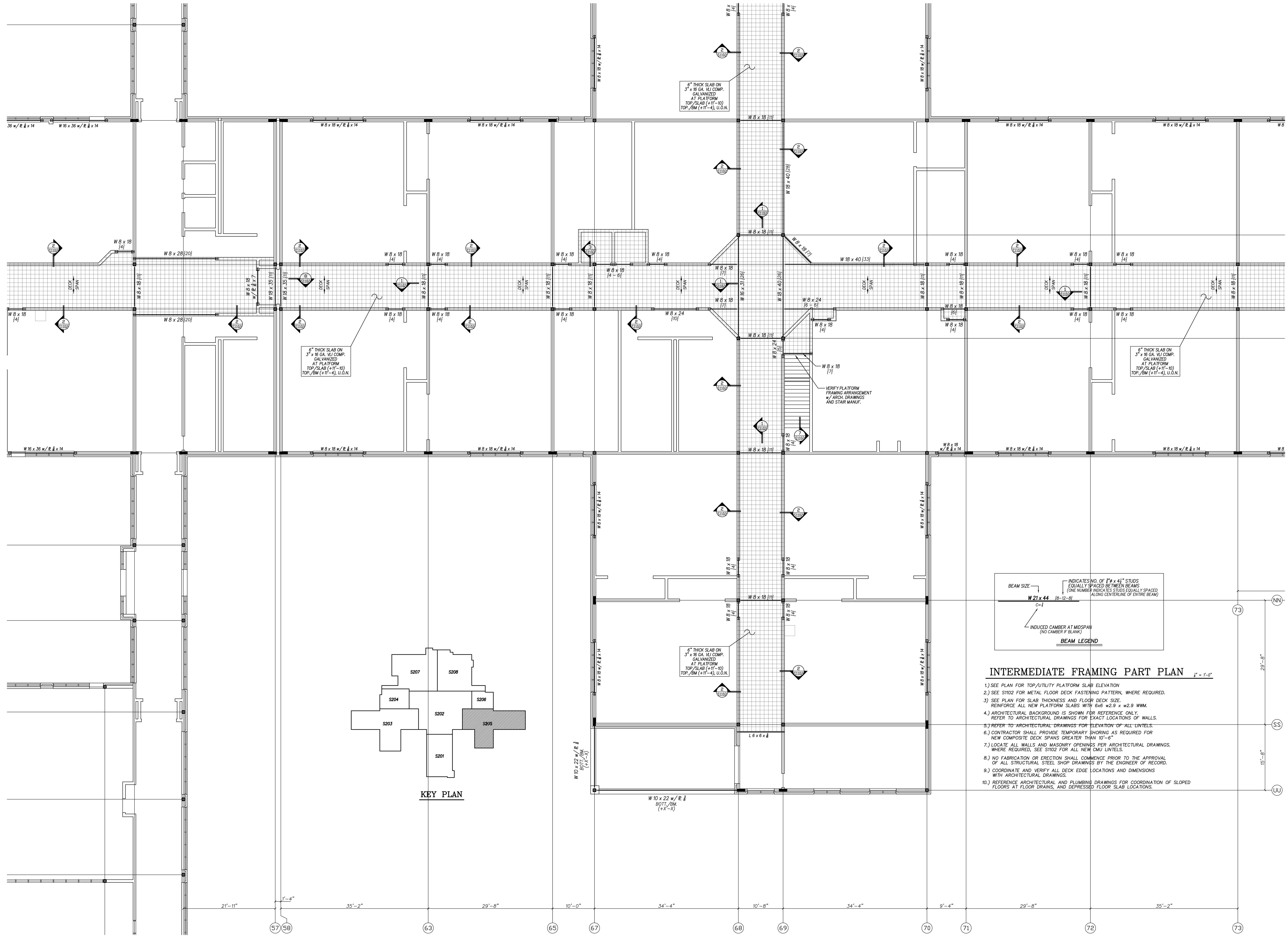
Project No. 22303
Date: 22 AUG 2024
Drawing no. S 204



INTERMEDIATE FRAMING PART PLAN

1/8" = 1'-0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
3) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE. REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
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8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
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10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

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Date: 22 AUG 2024
Drawing no. S 205

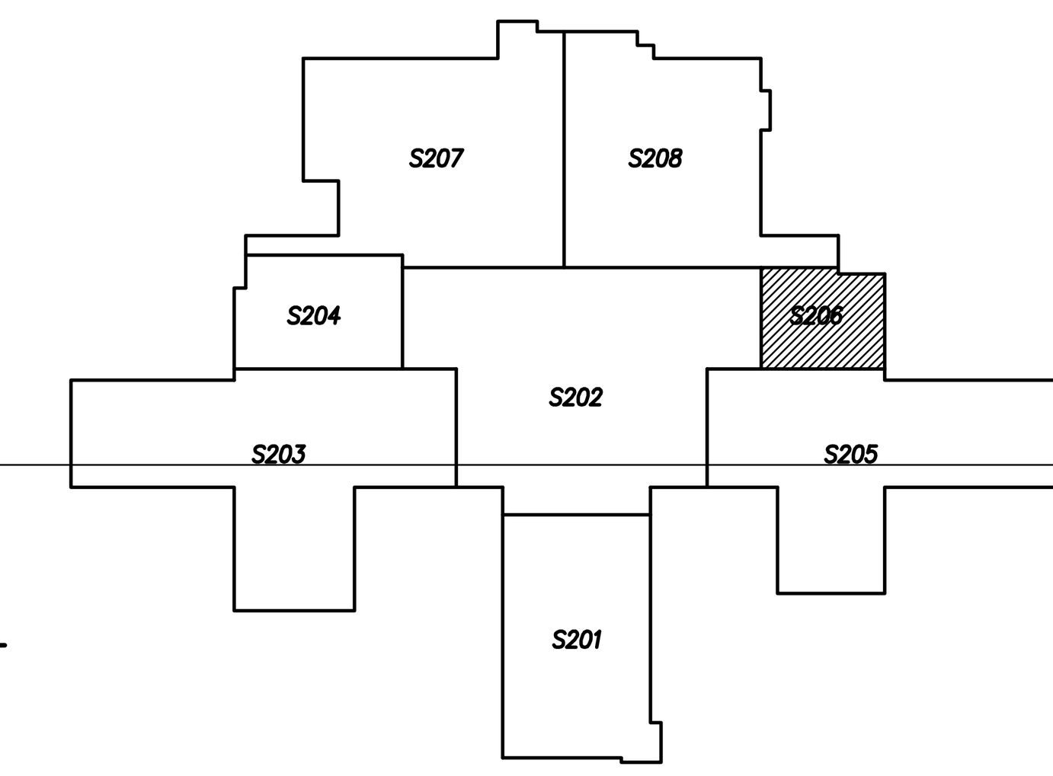
BEAM SIZE — W 21 x 44 {8–12–8}

C= 3/4

INDICATES NO. OF 3/4"Ø x 4 1/2" STUDS EQUALLY SPACED BETWEEN BEAMS (ONE NUMBER INDICATES STUDS EQUALLY SPACED ALONG CENTERLINE OF ENTIRE BEAM)

INDUCED CAMBER AT MIDSPAN (NO CAMBER IF BLANK)

BEAM LEGEND



KEY PLAN

INTERMEDIATE FRAMING PART PLAN

1/8" = 1'-0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
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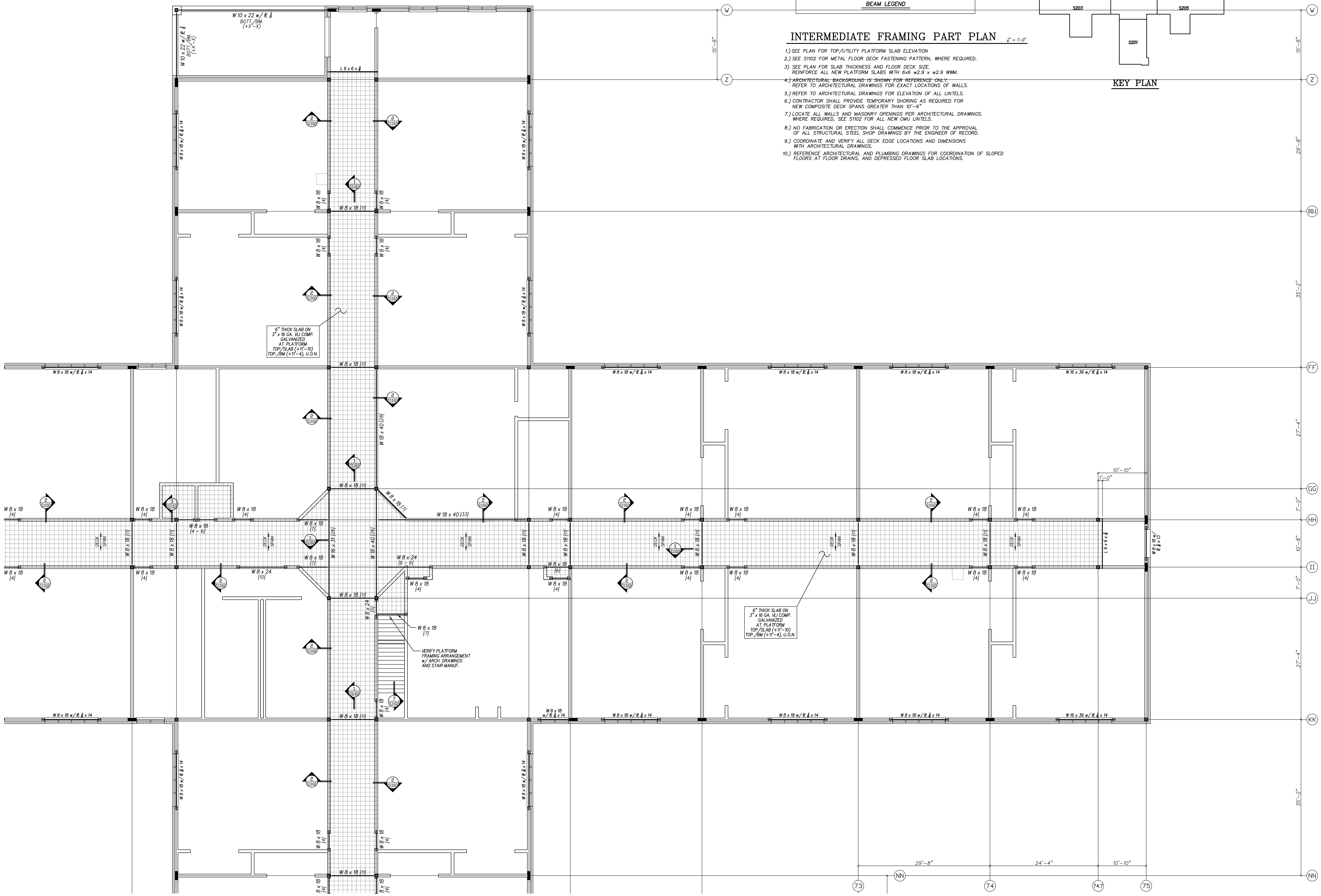

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Project No. 22303
Date: 22 AUG 2024
Drawing no. S 206

INTERMEDIATE FRAMING PART PLAN

1/8" = 1'-0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
3) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE. REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
4.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
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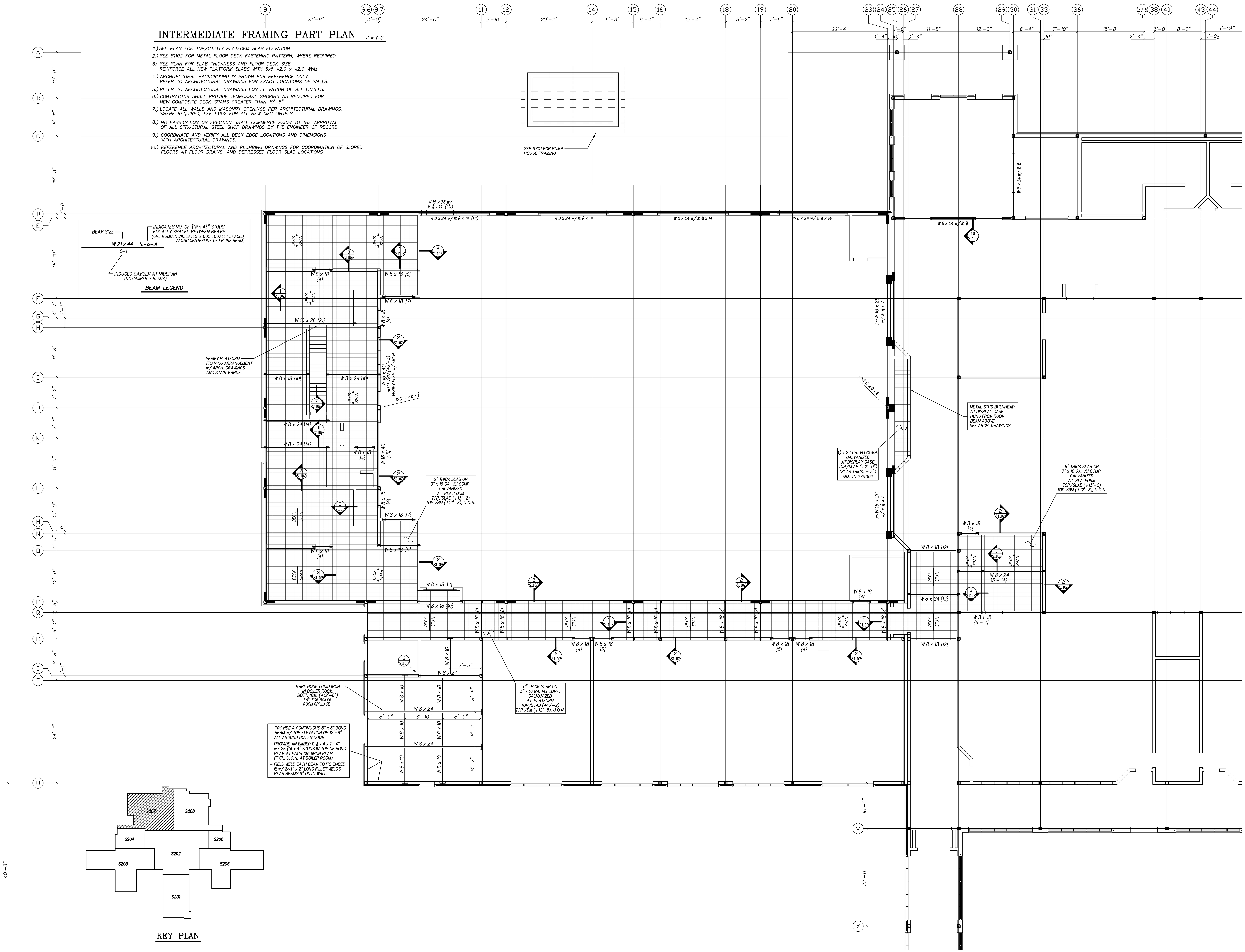
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.



KEY PLAN

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22 AUG 2024

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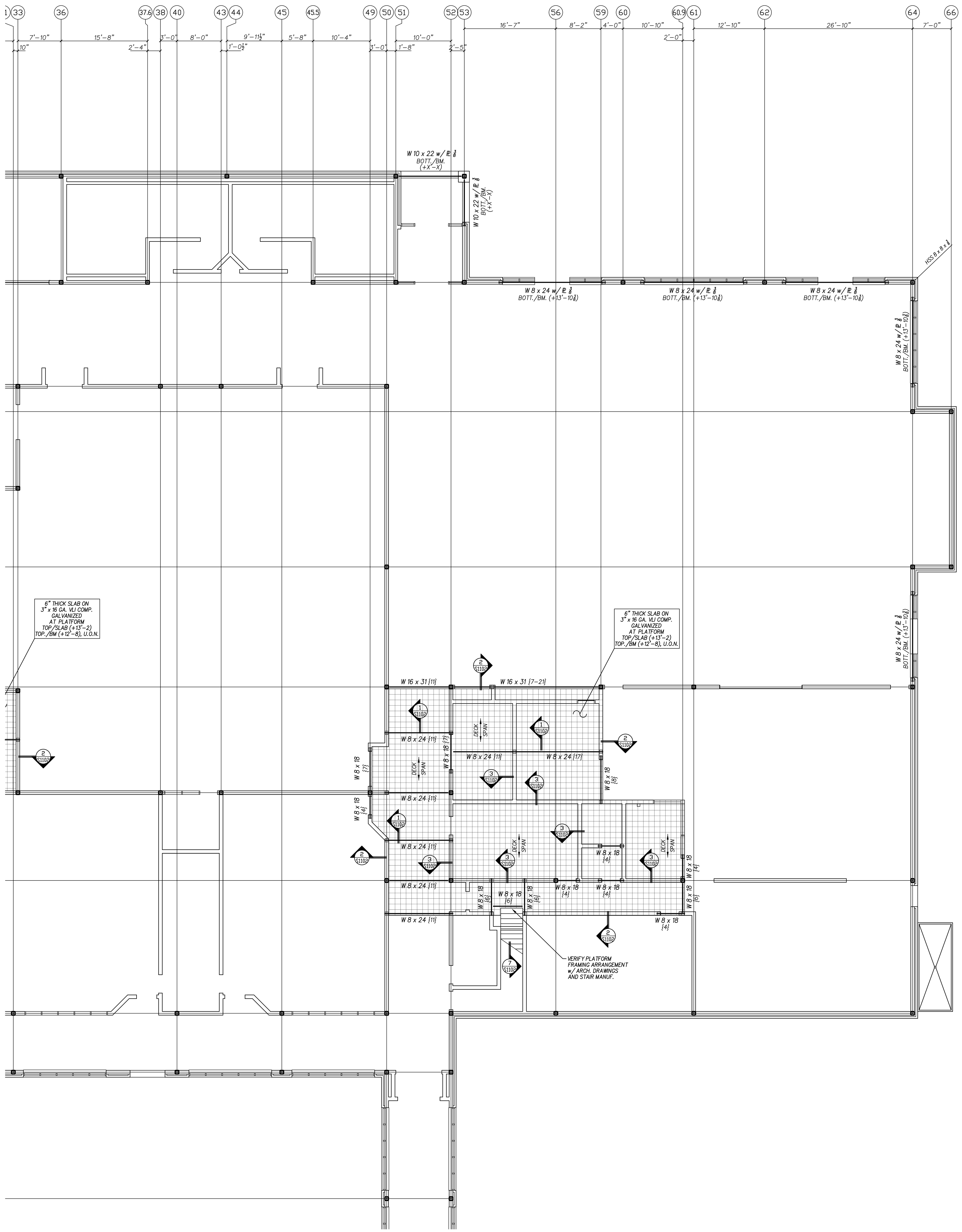
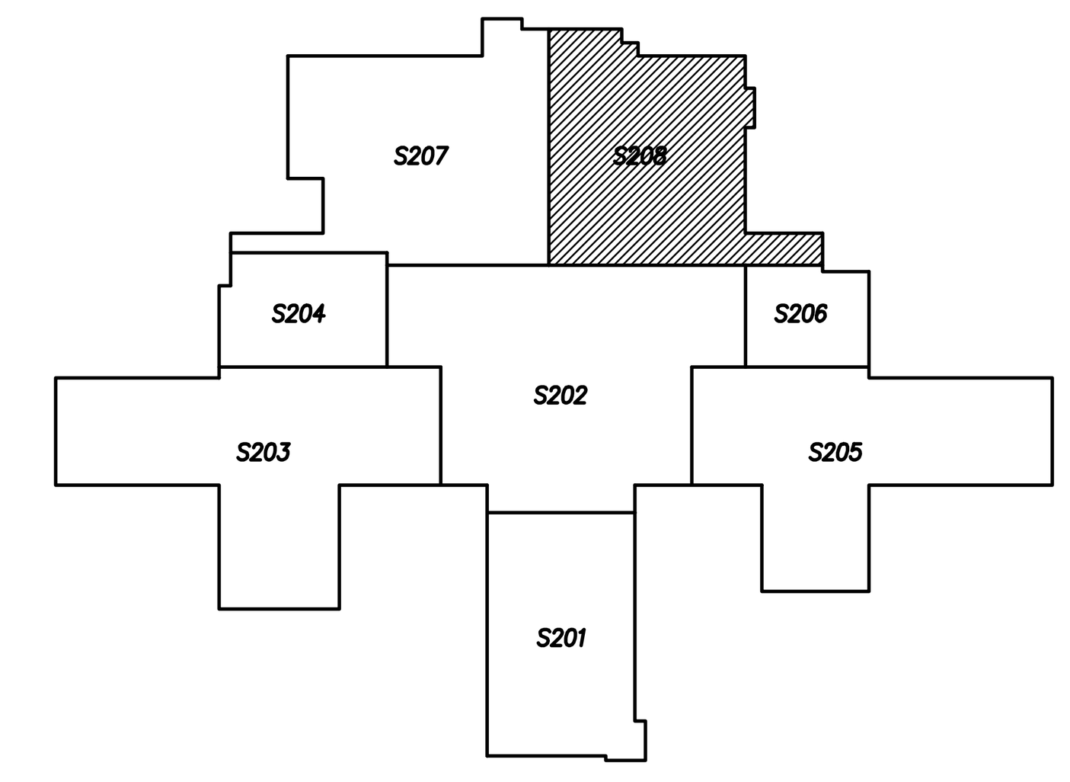
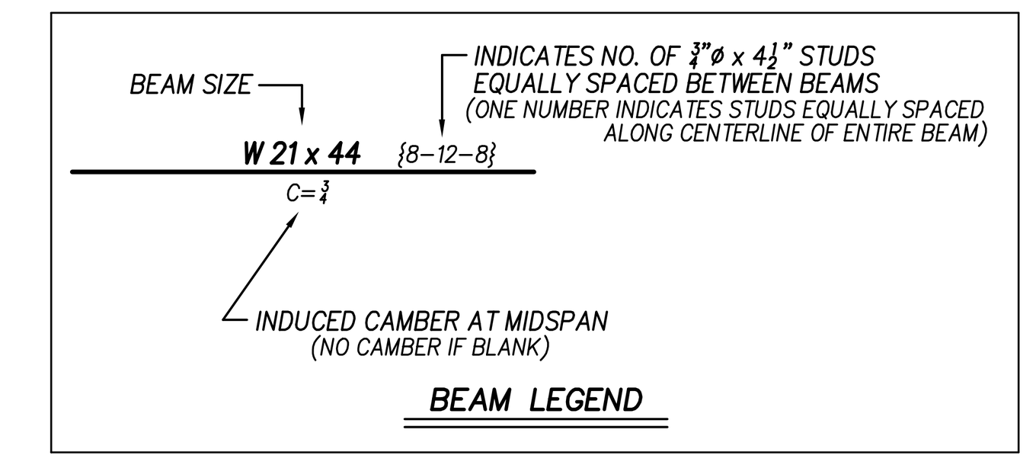
No.	Date:	Revision

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 207





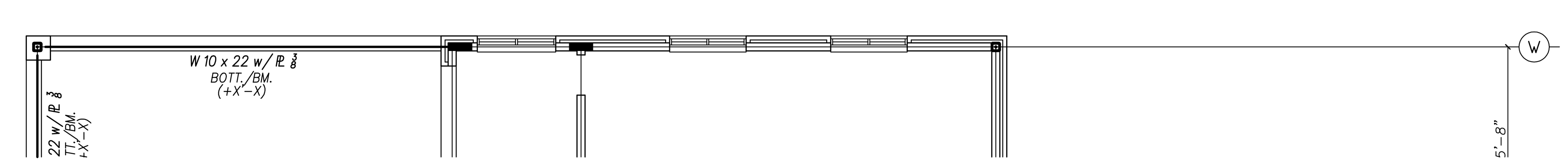
KEY PLAN



INTERMEDIATE FRAMING PART PLAN

1/8" = 1'-0"

1.) SEE PLAN FOR TOP/UTILITY PLATFORM SLAB ELEVATION
2.) SEE S1102 FOR METAL FLOOR DECK FASTENING PATTERN, WHERE REQUIRED.
3) SEE PLAN FOR SLAB THICKNESS AND FLOOR DECK SIZE. REINFORCE ALL NEW PLATFORM SLABS WITH 6x6 w2.9 x w2.9 WWM.
4.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.
5.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.
6.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR NEW COMPOSITE DECK SPANS GREATER THAN 10'-6"
7.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS. WHERE REQUIRED, SEE S1102 FOR ALL NEW CMU LINTELS.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.



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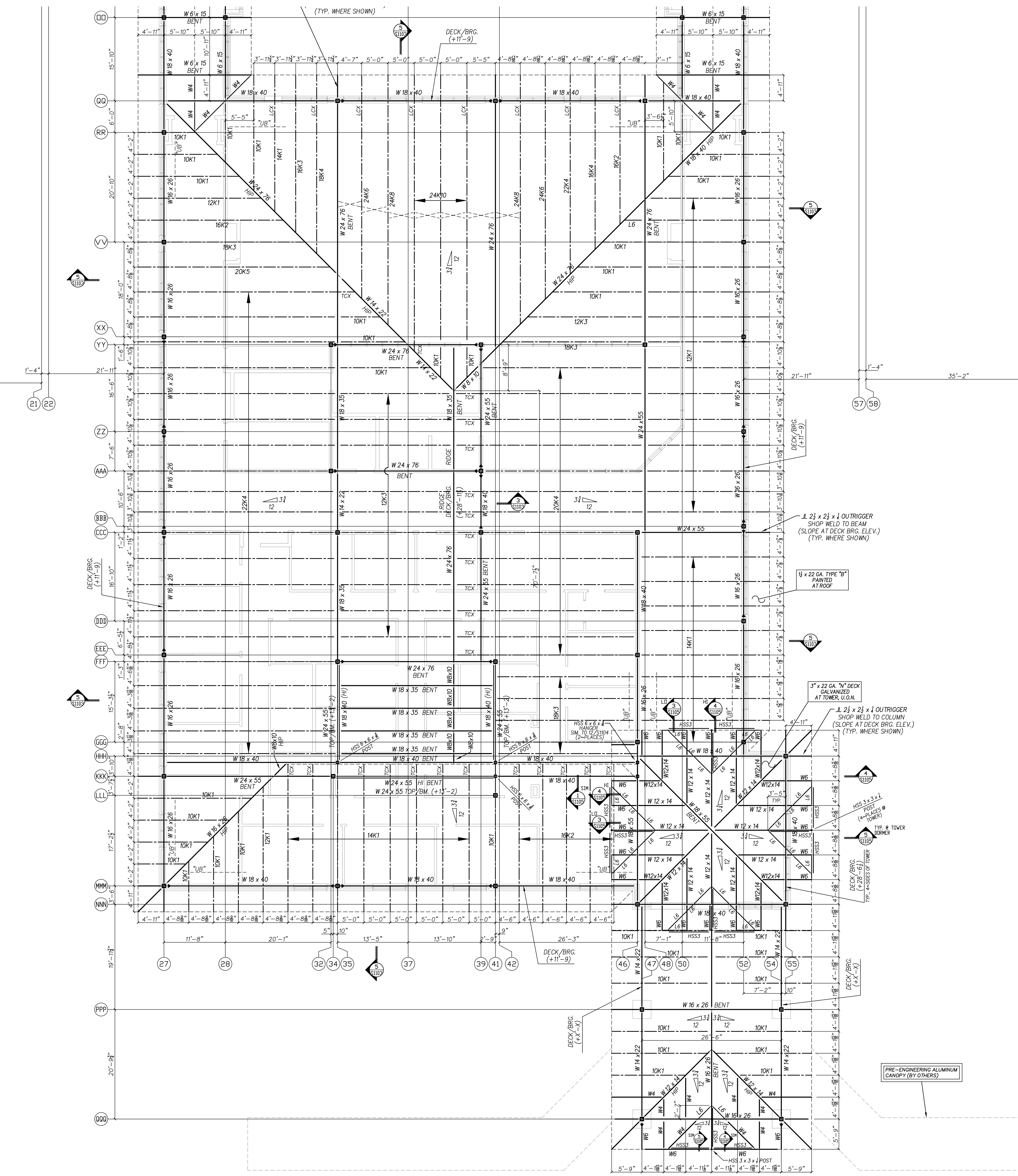
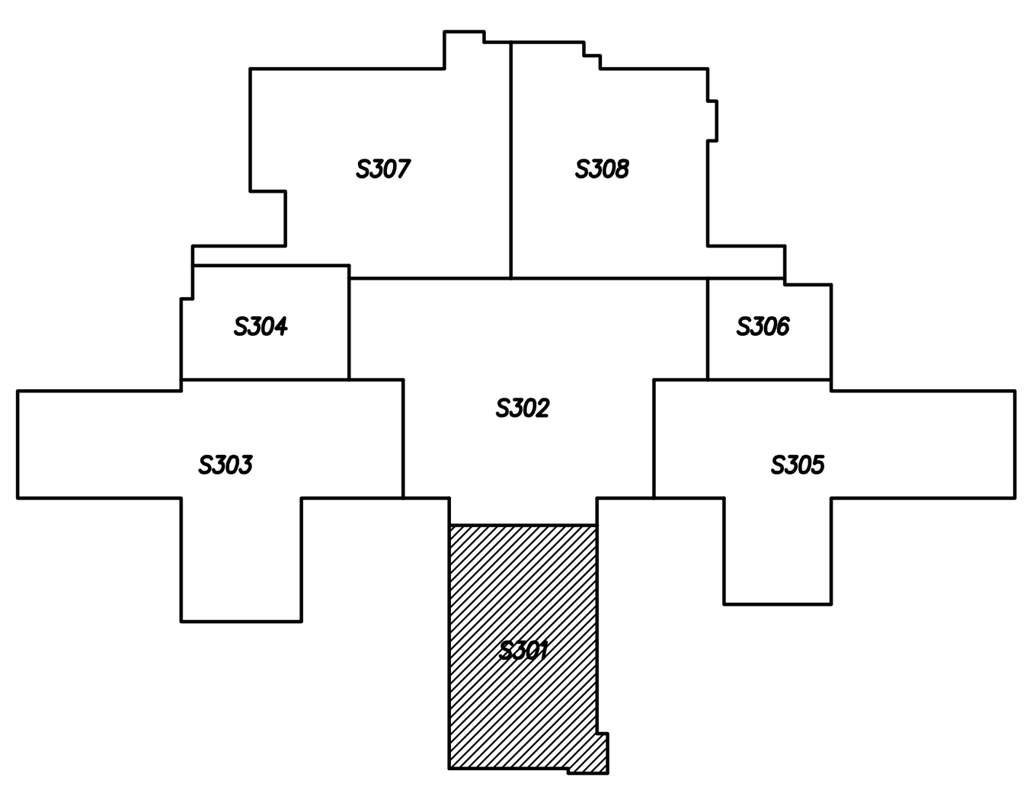
Project No. 22303
Date: 22 AUG 2024
Drawing no. S 208





KEY PLAN

ROOF PART PLAN

⅛" = 1'-0"

1.) METAL ROOF DECK IS 1 1/2" x 22 GA TYPE "B" PAINTED M.R.D., TYP. U.O.N. FOR ATTACHMENT, SEE TYPICAL M.R.D. FASTENING DETAIL ON S1102.
2.) ELEV NOTED(+) ARE ABOVE REFERENCED FINISHED FLOOR.
3.) METAL ROOF DECK IS TO BE USED TO TRANSMIT LATERAL LOADS TO WALLS. SEE TYP. DECK FASTENING PATTERN ON S1102.
4.) JOIST SUPPLIER SHALL DESIGN JOISTS FOR ADDITIONAL POINT LOADS FROM ROOF TOP MECHANICAL UNITS (IF REQUIRED). CONTRACTOR SHALL VERIFY SIZE AND WEIGHT OF UNITS AND REPORT THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD, IF REQUIRED.
5.) ALL WIDE FLANGE BEAMS TO BE "V50" STEEL.
6.) SEE S1201 FOR NET UPLIFT DESIGN LOADING FOR ALL JOISTS AND GIRDERS.
7.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE FIRST BOTTOM CHORD PANEL POINT OF JOIST.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
10.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
11.) SEE 3/S1103 AND 5/S1103 FOR LCX CONFIGURATION.
12.) SEE 4/S1103 FOR BCX CONFIGURATION.
13.) PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.
14.) ⊗ – INDICATES THAT JOIST AND GIRDER SUPPLIER SHALL DESIGN JOIST WITH DESIGN END MOMENT OF 500 IN–K AT END OF JOIST. SEE SECTION 8/S1104 FOR ADDITIONAL NOTES THAT APPLY. TYPICAL AT "SP" JOIST DESIGNATION.
15.) UNLESS OTHERWISE NOTED, ALL JOIST GIRDERS SUPPORTING W4 PIPING SUPPORT BEAMS SHALL BE DESIGNED BY THEIR SUPPLIER TO SUPPORT AN ADDITIONAL 1.5 KIPS UNFACTORED SERVICE LOAD AT EACH W4 SUPPORT POINT.
16.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
17.) L6 = L 6 x 6 x ⅜, TYP., U.O.N.
18.) W4 = W 4 x 13, TYP., U.O.N.
19.) ► = INDICATES MOMENT CONNECTION. SEE 1/S1104.
20.) SEE 15/S1103 FOR BENT BEAM WELDMENTS.
21.) W6 = W 6 x 9, TYP., U.O.N.
22.) HSS3 = HSS 3 x 3 x ¼, TYP., U.O.N.

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22 AUG 2024

New Construction
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Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 301

ROOF PART PLAN

1/8" = 1'-0"

1.) METAL ROOF DECK IS 1 1/2" x 22 GA TYPE "B" PAINTED M.R.D., TYP. U.O.N. FOR ATTACHMENT, SEE TYPICAL M.R.D. FASTENING DETAIL ON S1102.
2.) ELEV NOTED(+) ARE ABOVE REFERENCED FINISHED FLOOR.
3.) METAL ROOF DECK IS TO BE USED TO TRANSMIT LATERAL LOADS TO WALLS. SEE TYP. DECK FASTENING PATTERN ON S1102.
4.) JOIST SUPPLIER SHALL DESIGN JOISTS FOR ADDITIONAL POINT LOADS FROM ROOF TOP MECHANICAL UNITS (IF REQUIRED). CONTRACTOR SHALL VERIFY SIZE AND WEIGHT OF UNITS AND REPORT THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD, IF REQUIRED.
5.) ALL WIDE FLANGE BEAMS TO BE "V50" STEEL.
6.) SEE S1201 FOR NET UPLIFT DESIGN LOADING FOR ALL JOISTS AND GIRDERS.
7.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE FIRST BOTTOM CHORD PANEL POINT OF JOIST.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
10.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
11.) SEE 3/S1103 AND 5/S1103 FOR LCX CONFIGURATION.
12.) SEE 4/S1103 FOR BCX CONFIGURATION.
13.) PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.
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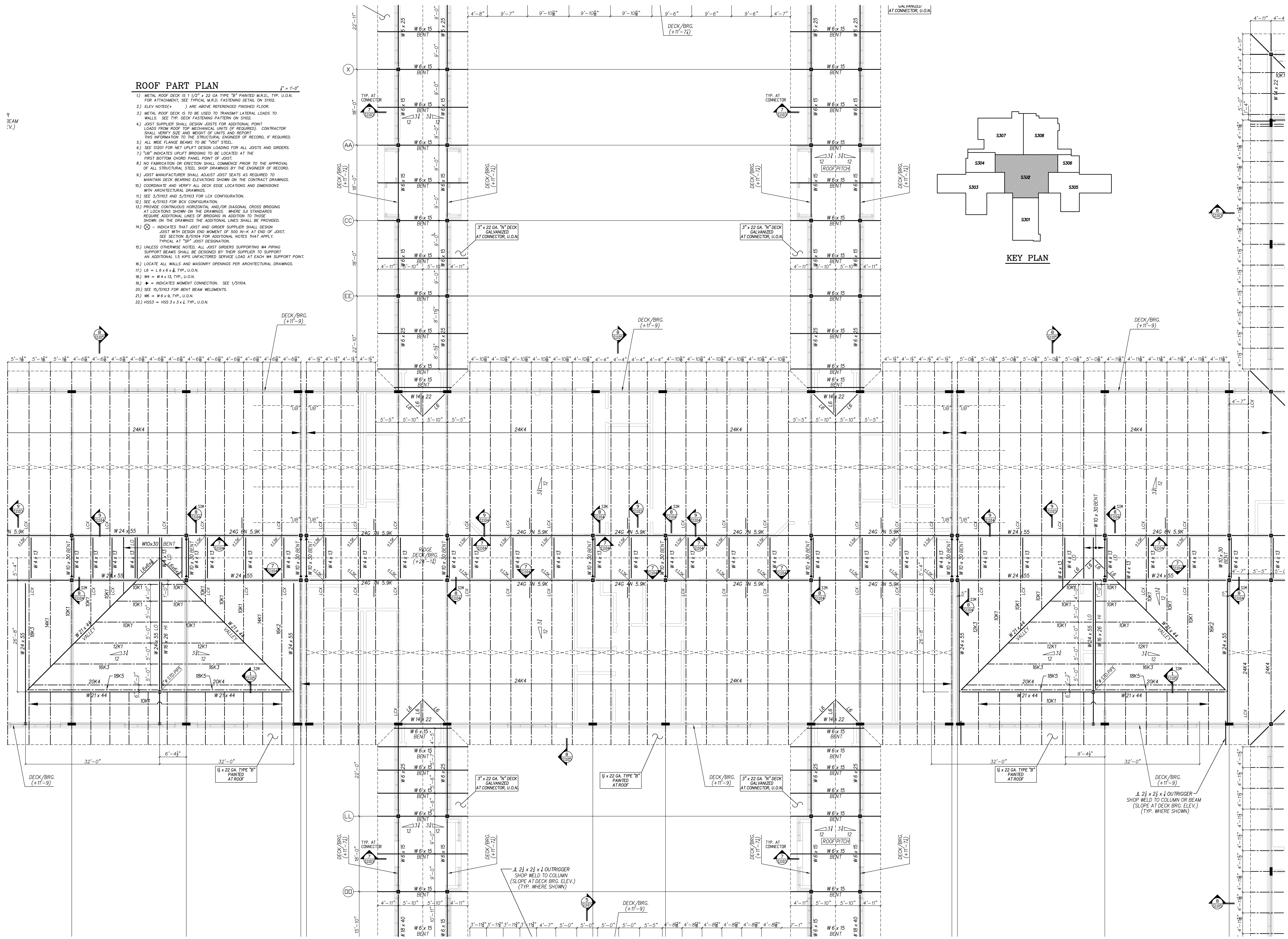
15.) UNLESS OTHERWISE NOTED, ALL JOIST GIRDERS SUPPORTING W4 PIPING SUPPORT BEAMS SHALL BE DESIGNED BY THEIR SUPPLIER TO SUPPORT AN ADDITIONAL 1.5 KIPS UNFACTORED SERVICE LOAD AT EACH W4 SUPPORT POINT.
16.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
17.) L6 = L 6 x 6 x 5/16, TYP., U.O.N.
18.) W4 = W 4 x 13, TYP., U.O.N.
19.) ▶ = INDICATES MOMENT CONNECTION. SEE 1/S1104.
20.) SEE 15/S1103 FOR BENT BEAM WELDMENTS.
21.) W6 = W 6 x 9, TYP., U.O.N.
22.) HSS3 = HSS 3 x 3 x 1/4, TYP., U.O.N.



KEY PLAN

Revision
No. Date:

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QUEEN ENGINEERING & DESIGN

BRUCE L. QUEEN, ENGINEER, SEAL 18991, NORTH CAROLINA
22 AUG 2024

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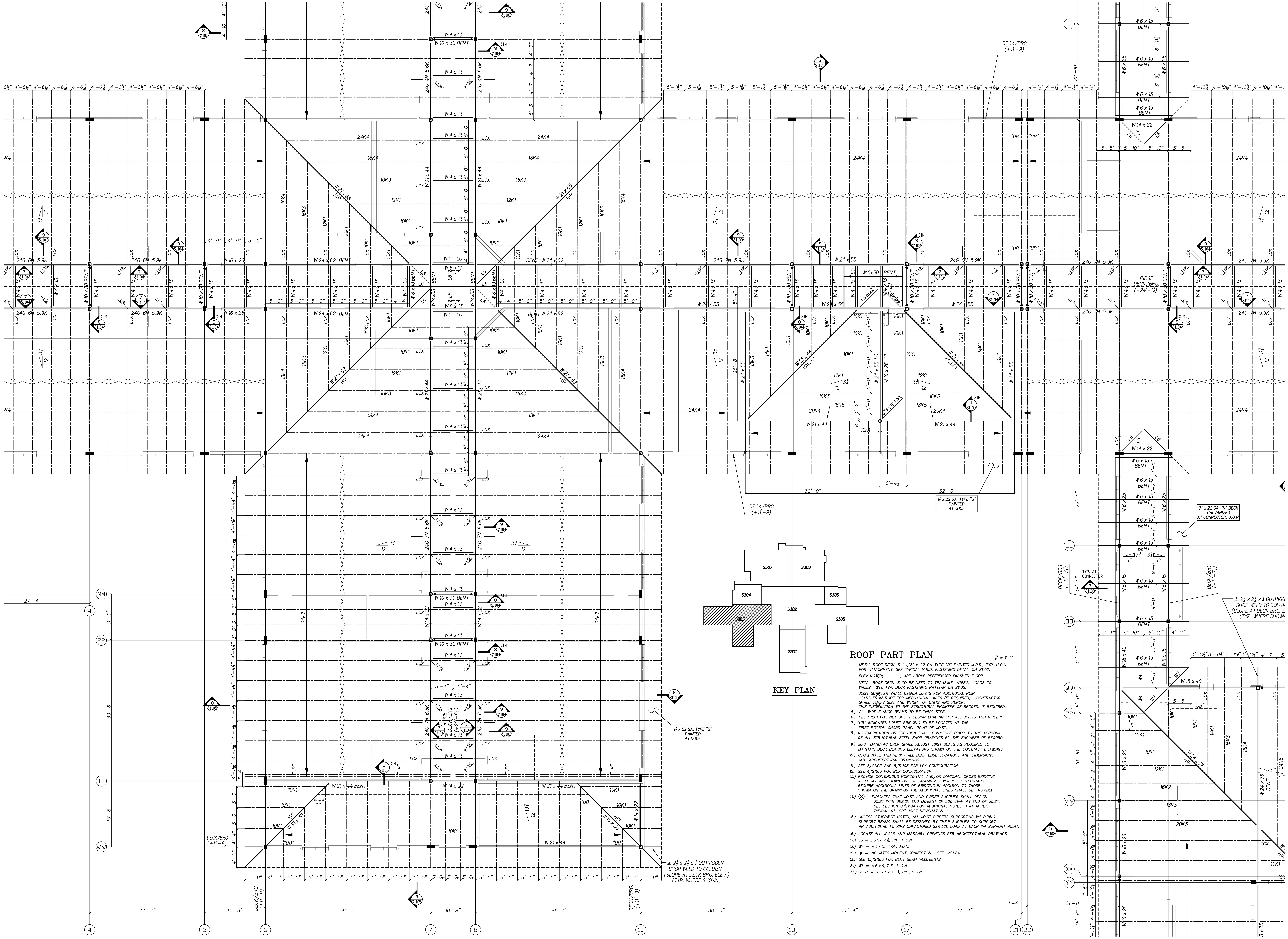
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing No. S302



ROOF PART PLAN

1/8" = 1'-0"

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5.) ALL WIDE FLANGE BEAMS TO BE "V50" STEEL.

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7.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE FIRST BOTTOM CHORD PANEL POINT OF JOIST.

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9.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.

10.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

11.) SEE 3/S1103 AND 5/S1103 FOR LCX CONFIGURATION.

12.) SEE 4/S1103 FOR BCX CONFIGURATION.

13.) PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.

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17.) L6 = L 6 x 6 x 5/16, TYP., U.O.N.

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19.) ▶ = INDICATES MOMENT CONNECTION. SEE 1/S1104.

20.) SEE 15/S1103 FOR BENT BEAM WELDMENTS.

21.) W6 = W 6 x 9, TYP., U.O.N.

22.) HSS3 = HSS 3 x 3 x 1/4, TYP., U.O.N.

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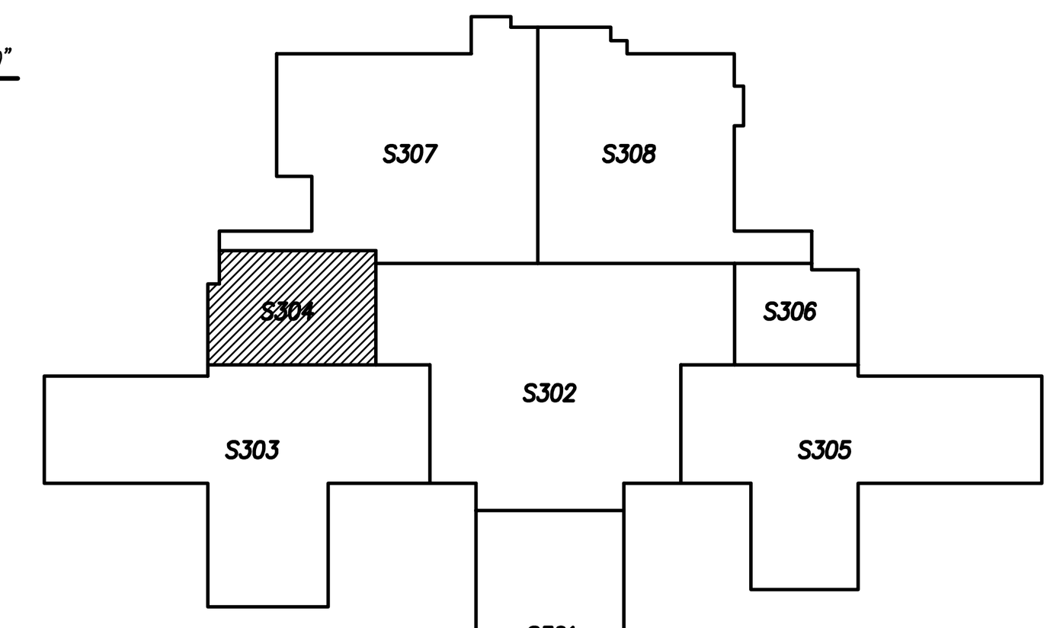
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 303

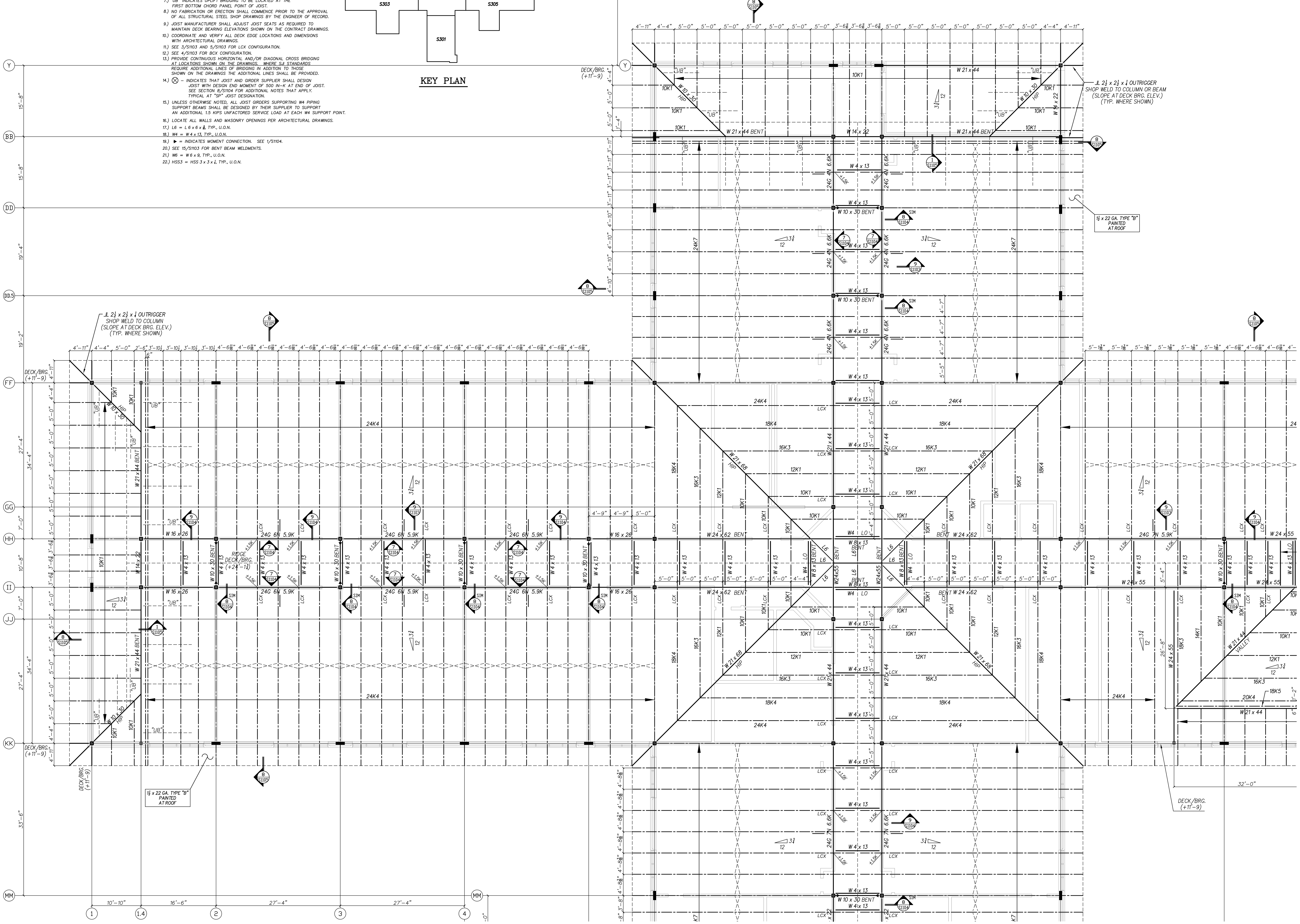
ROOF PART PLAN

1/8" = 1'-0"

1.) METAL ROOF DECK IS 1 1/2" x 22 GA TYPE "B" PAINTED M.R.D., TYP. U.O.N. FOR ATTACHMENT, SEE TYPICAL M.R.D. FASTENING DETAIL ON S1102.
2.) ELEV NOTED(+) ARE ABOVE REFERENCED FINISHED FLOOR.
3.) METAL ROOF DECK IS TO BE USED TO TRANSMIT LATERAL LOADS TO WALLS. SEE TYP. DECK FASTENING PATTERN ON S1102.
4.) JOIST SUPPLIER SHALL DESIGN JOISTS FOR ADDITIONAL POINT LOADS FROM ROOF TOP MECHANICAL UNITS (IF REQUIRED). CONTRACTOR SHALL VERIFY SIZE AND WEIGHT OF UNITS AND REPORT THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD, IF REQUIRED.
5.) ALL WIDE FLANGE BEAMS TO BE "V50" STEEL.
6.) SEE S1201 FOR NET UPLIFT DESIGN LOADING FOR ALL JOISTS AND GIRDERS.
7.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE FIRST BOTTOM CHORD PANEL POINT OF JOIST.
8.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.
9.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.
10.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
11.) SEE 3/S1103 AND 5/S1103 FOR LCX CONFIGURATION.
12.) SEE 4/S1103 FOR BCX CONFIGURATION.
13.) PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.
14.) ⊗ – INDICATES THAT JOIST AND GIRDER SUPPLIER SHALL DESIGN JOIST WITH DESIGN END MOMENT OF 500 IN–K AT END OF JOIST. SEE SECTION 8/S1104 FOR ADDITIONAL NOTES THAT APPLY. TYPICAL AT "SP" JOIST DESIGNATION.
15.) UNLESS OTHERWISE NOTED, ALL JOIST GIRDERS SUPPORTING W4 PIPING SUPPORT BEAMS SHALL BE DESIGNED BY THEIR SUPPLIER TO SUPPORT AN ADDITIONAL 1.5 KIPS UNFACTORED SERVICE LOAD AT EACH W4 SUPPORT POINT.
16.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.
17.) L6 = L 6 x 6 x 5/16, TYP., U.O.N.
18.) W4 = W 4 x 13, TYP., U.O.N.
19.) ▶ = INDICATES MOMENT CONNECTION. SEE 1/S1104.
20.) SEE 15/S1103 FOR BENT BEAM WELDMENTS.
21.) W6 = W 6 x 9, TYP., U.O.N.
22.) HSS3 = HSS 3 x 3 x 1/4, TYP., U.O.N.



KEY PLAN



Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

No. | Date: | Revision

QUEEN ENGINEERING & DESIGN
NC LIC C-1050

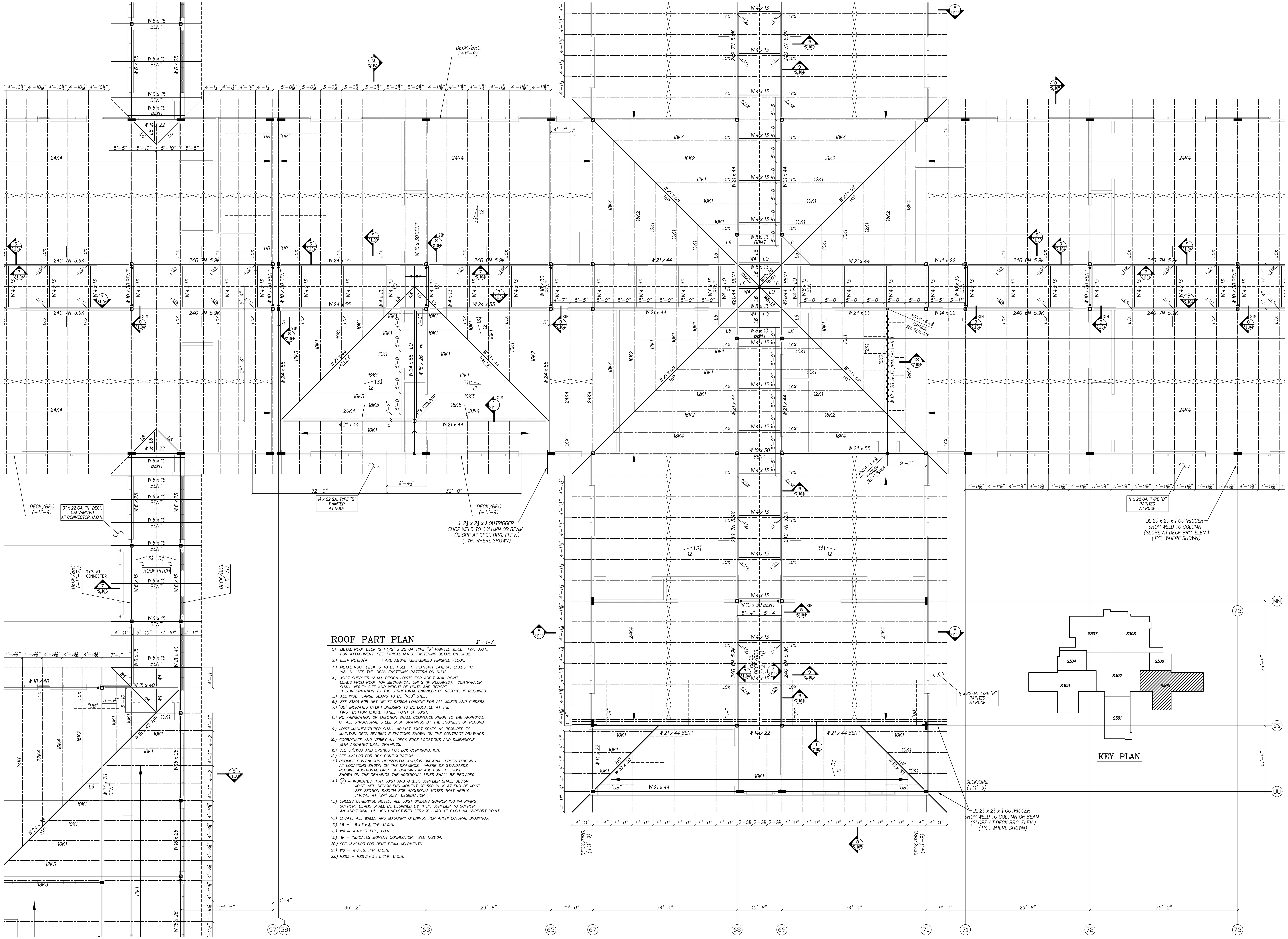
BRUCE L. QUEEN, ENGINEER, SEAL 18991
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 304



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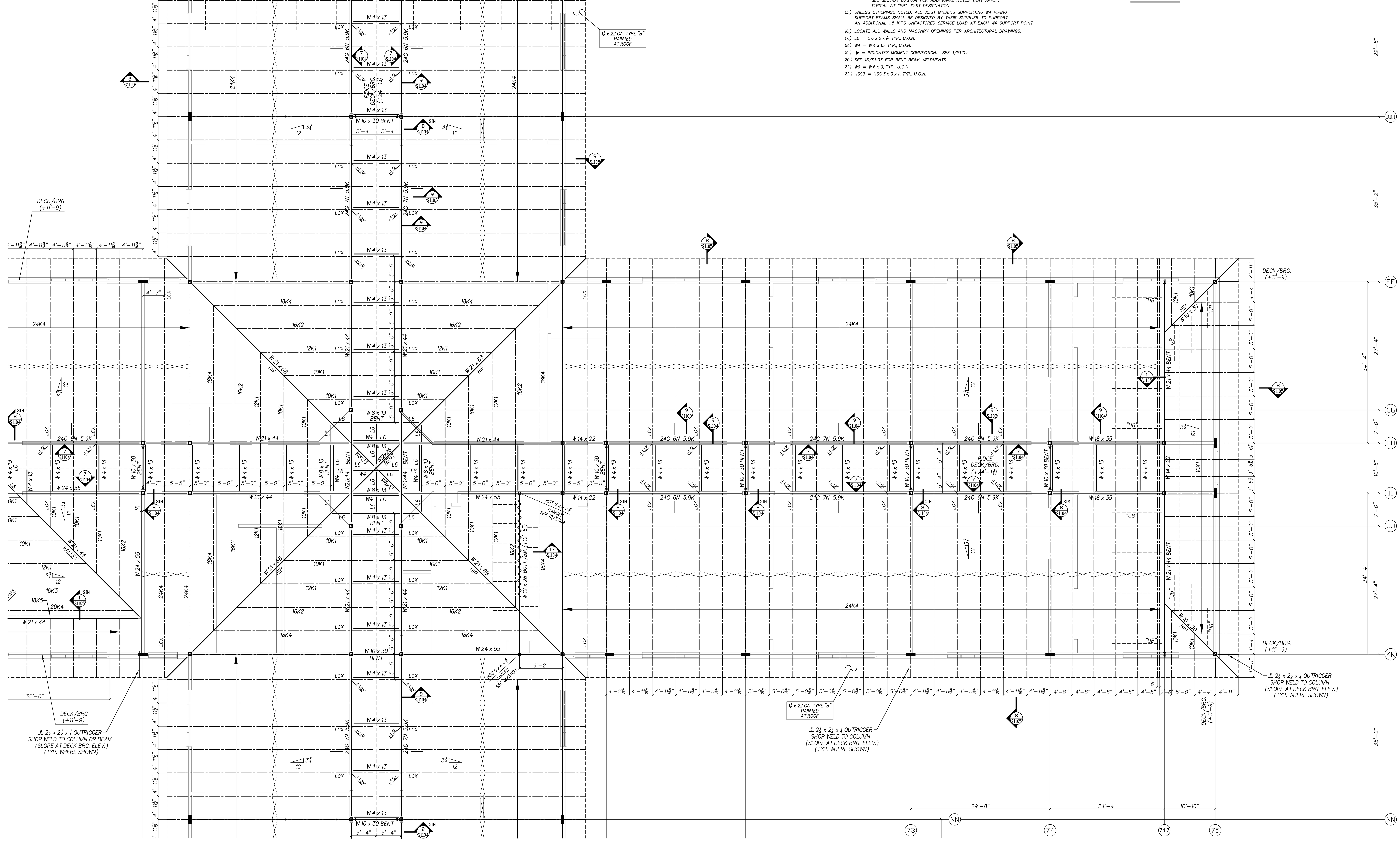
QUEEN ENGINEERING & DESIGN
5530 MUNFORD RD, SUITE # 115
RALEIGH, NORTH CAROLINA 27612
PHONE (919) 420-0480
FAX (919) 420-0489
NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 305



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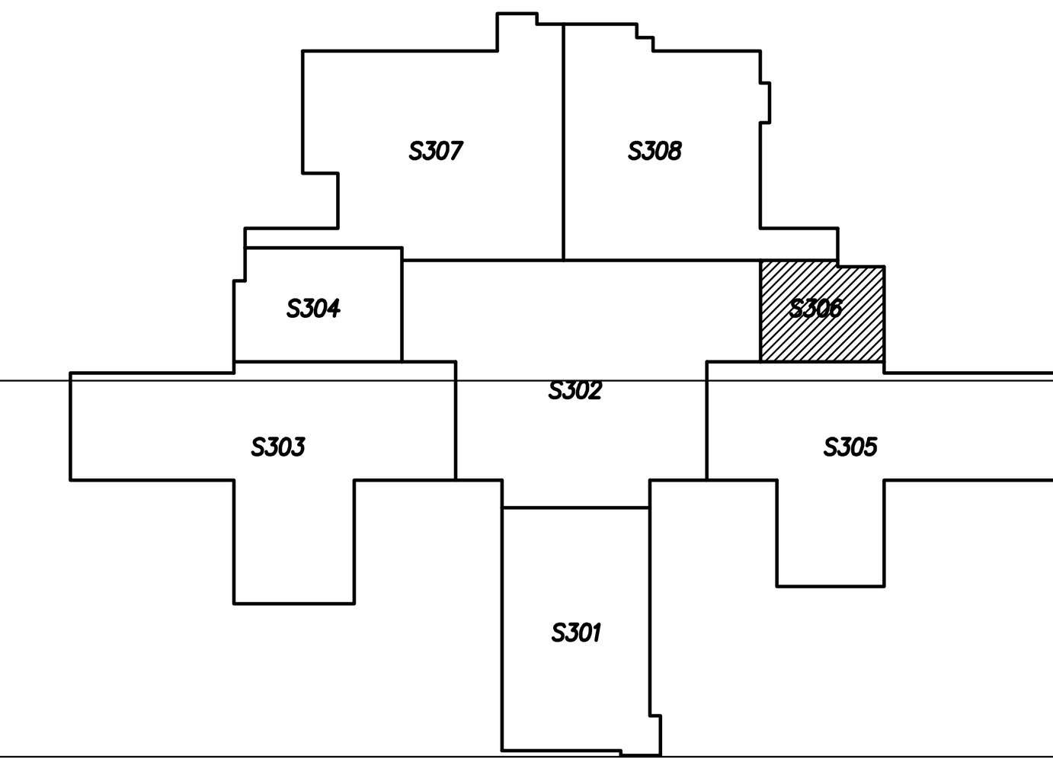

KEY PLAN

Hite associates
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QUEEN ENGINEERING & DESIGN
NC LIC C-1050

BRUCE L. QUEEN
ENGINEER
SEAL 18991
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 306

ROOF PART PLAN

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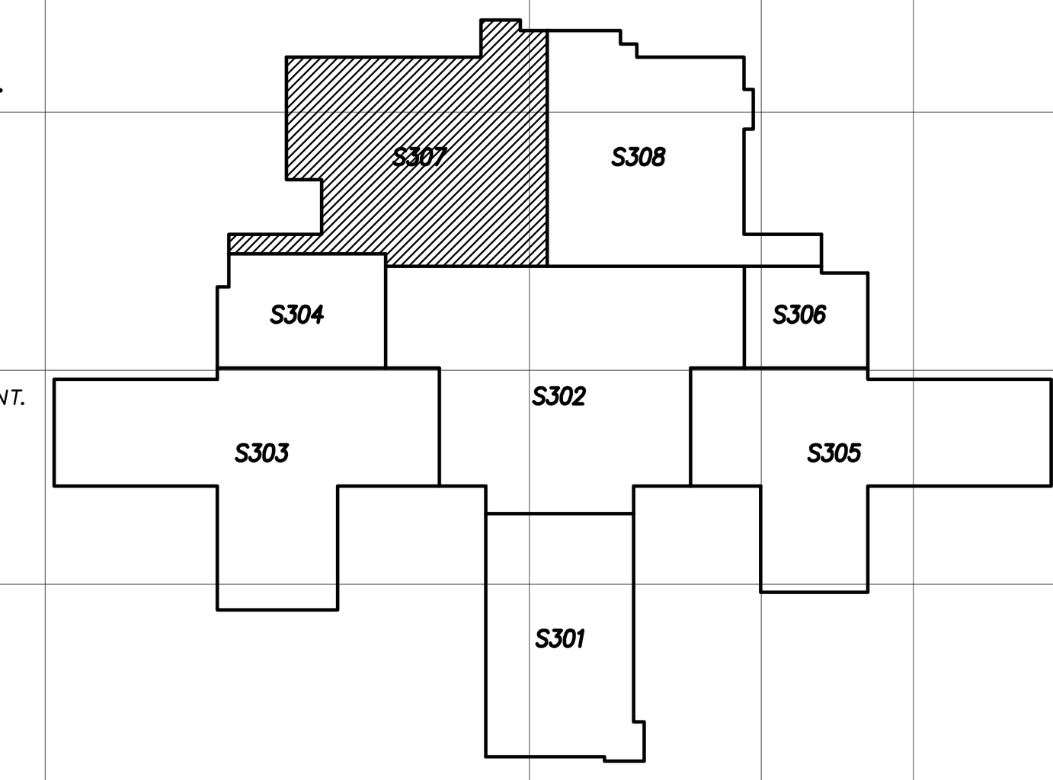

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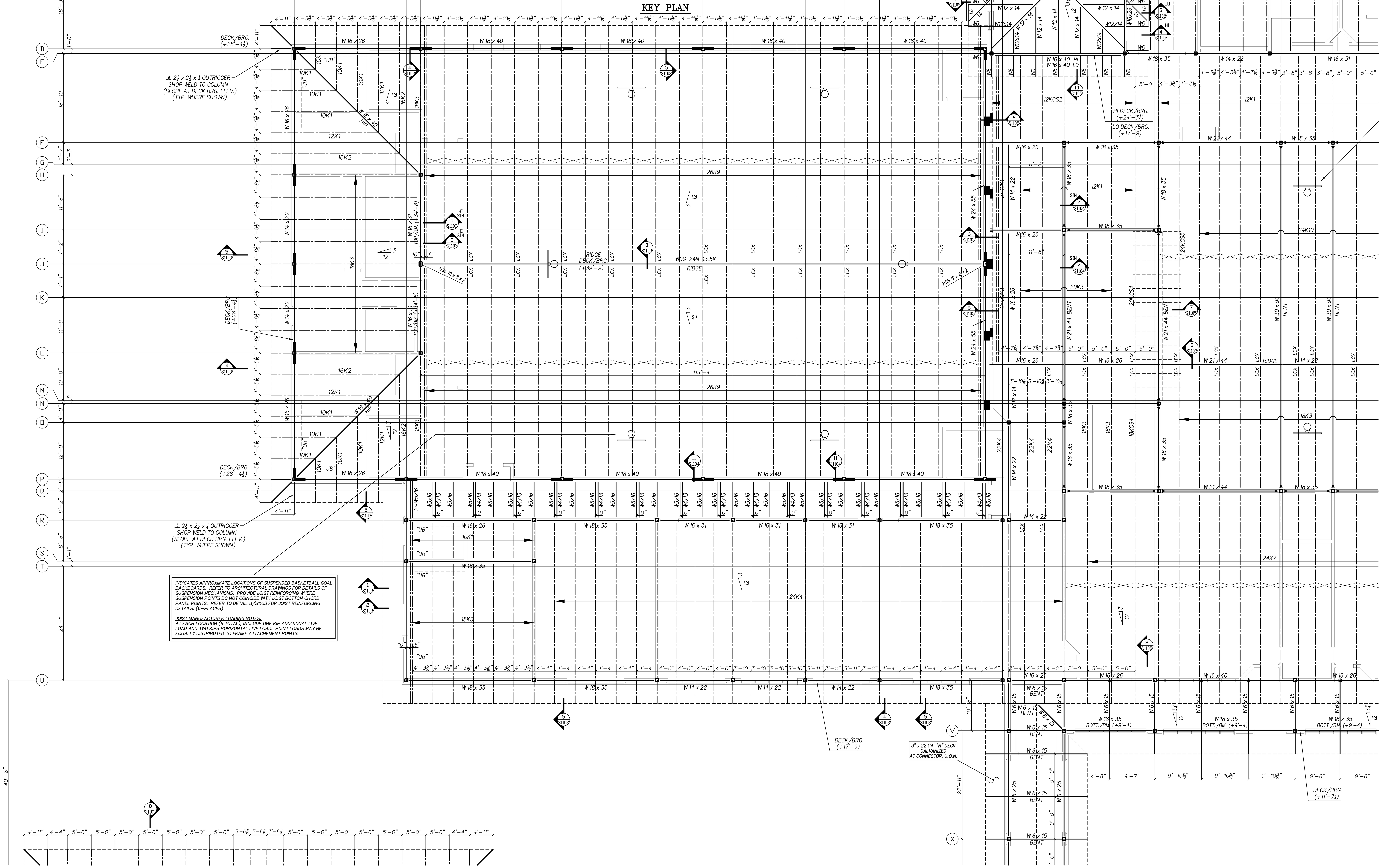

INDICATES APPROXIMATE LOCATIONS OF SUSPENDED BASKETBALL GOAL BACKBOARDS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF SUSPENSION MECHANISMS. PROVIDE JOIST REINFORCING WHERE SUSPENSION POINTS DO NOT COINCIDE WITH JOIST BOTTOM CHORD PANEL POINTS. REFER TO DETAIL 8/S1103 FOR JOIST REINFORCING DETAILS. (6~PLACES)

<u>JOIST MANUFACTURER LOADING NOTES:</u>
AT EACH LOCATION (6 TOTAL), INCLUDE ONE KIP ADDITIONAL LIVE LOAD AND TWO KIPS HORIZONTAL LIVE LOAD. POINT LOADS MAY BE EQUALLY DISTRIBUTED TO FRAME ATTACHEMENT POINTS.

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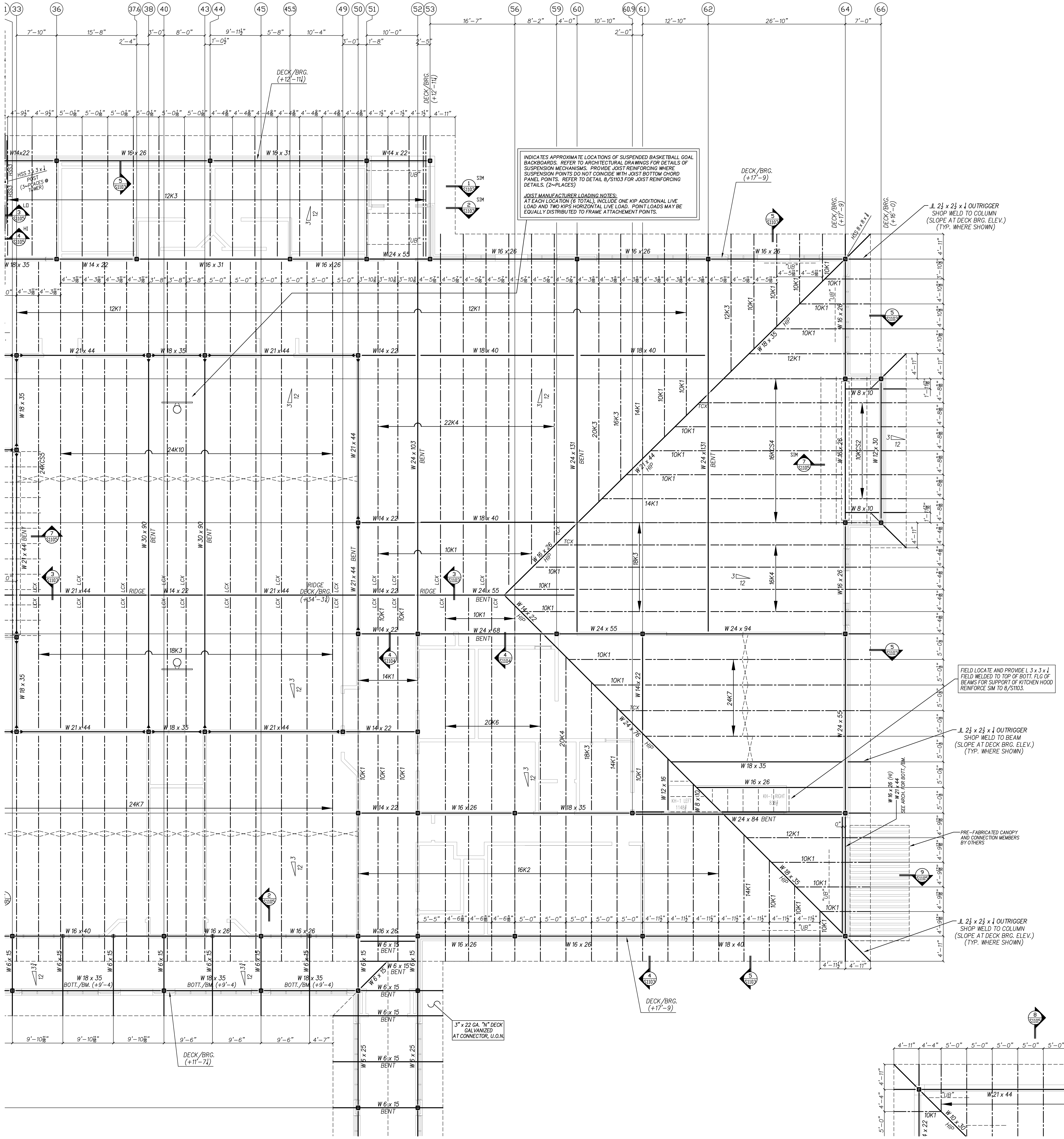
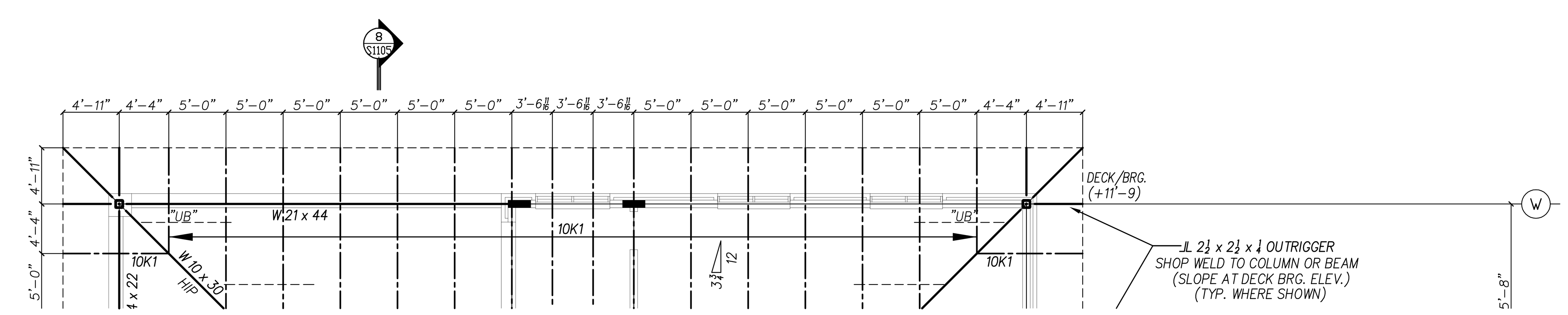
QUEEN ENGINEERING & DESIGN
NC LIC C-1050
BRUCE L. QUEEN, ENGINEER, SEAL 18991, NORTH CAROLINA

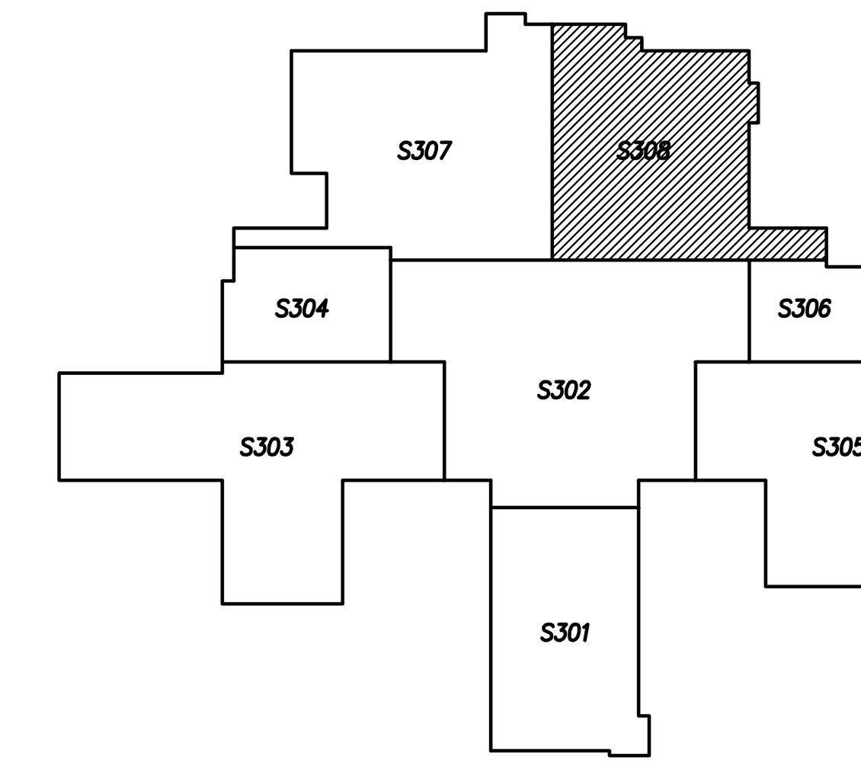
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S307







KEY PLAN

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22 AUG 2024

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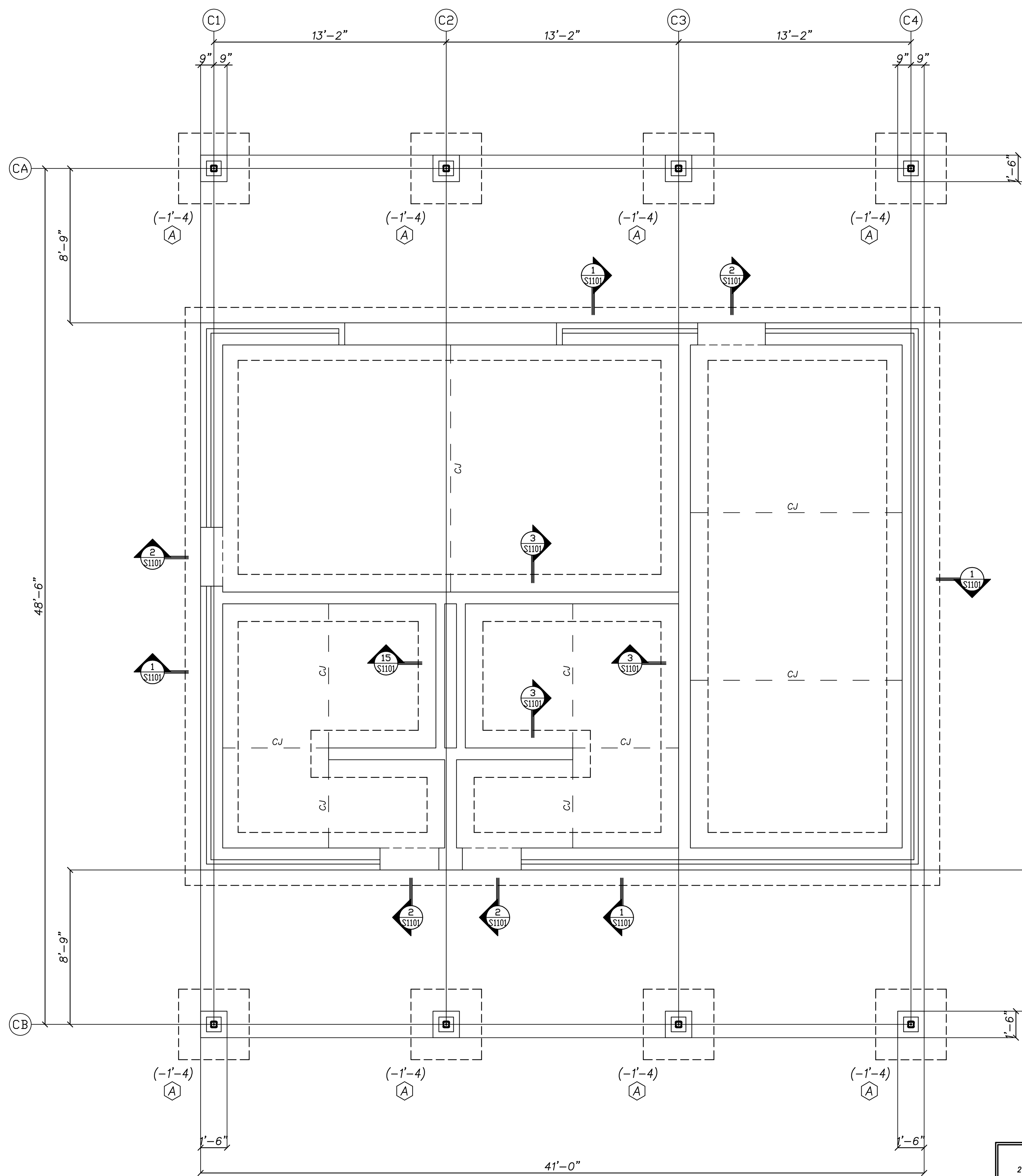


CONCESSIONS BUILDING FOUNDATION PLAN

$\frac{1}{4}$" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+XX.XX')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

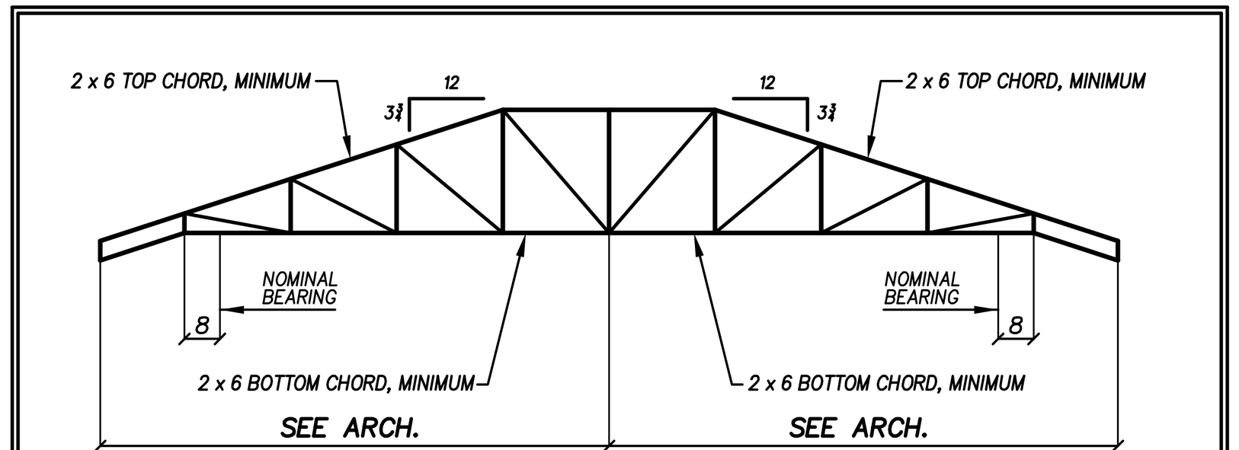
9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

11.) ALL COLUMNS = HSS 4 x 4 x $\frac{1}{4}$, TYP. U.O.N.

DESIGN CODE DATA (CONCESSIONS BLDG. ONLY)

1. IMPORTANCE FACTORS:
   - WIND Iw = 1.0
   - SNOW Is = 1.1
   - SEISMIC Ie = 1.25
2. LIVE LOAD:
   - ROOF 20 PSF
   - PLATFORMS 60 PSF
   - CORRIDORS 80 PSF
   - STAIRS 100 PSF
3. DEAD LOAD:
   - ROOF 20 PSF (MAXIMUM)
4. SNOW LOAD:
   - Pg 10.0 PSF
   - Ct 1.0
   - Ce 0.9
   - Pf 8.5 PSF
   - Ps 8.5 PSF
5. WIND LOAD: V_{ULT} = 130 3 SEC PEAK GUST MPH (ASCE 7 – 10)
   V_{ASD} = 101 MPH
   - EXPOSURE C
   - INTERNAL PRES. COEFF. +/– 0.18 (ENCLOSED)
   - MWFRS DESIGN WIND PRES. 41.0 PSF
   - WIND BASE SHEARS V_X (KIPS) = 30.9; V_Y (KIPS) = 26.1
6. SEISMIC DESIGN (ASCE 7 – 10):
   - Ss 0.097
   - S1 0.051
   - Sms 0.154
   - Sm1 0.121
   - Sds 0.104
   - Sd1 0.081
   - DESIGN CATEGORY C
   - SITE CLASS D
   - USE GROUP II
   - MWFRS A. BEARING WALL SYSTEM ORDINARY REINF. MAS. SHEAR WALLS
   - R 2
   - Cs 0.1
   - PROCEDURE EQUIV. LATERAL FORCE
   - COMPONENTS ANCHORED
   - LATERAL DESIGN CONTROLS: WIND
   - SEISMIC BASE SHEARS: V_X (KIPS) = 23; V_Y (KIPS) = 23
7. SOIL BEARING VALUE 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024)



ROOF TRUSS PROFILE – TYPE "T1"

- * ALL CONNECTIONS SHALL BE 18 GA. GANGNAIL PLATES BOTH SIDES OF EACH JOINT.
- * ALL SPLICE LOCATIONS MUST BE APPROVED BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- * EXACT WEB CONFIGURATIONS MAY VARY FROM THOSE SHOWN ABOVE. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANFUACTURER.

TRUSS GENERAL NOTES

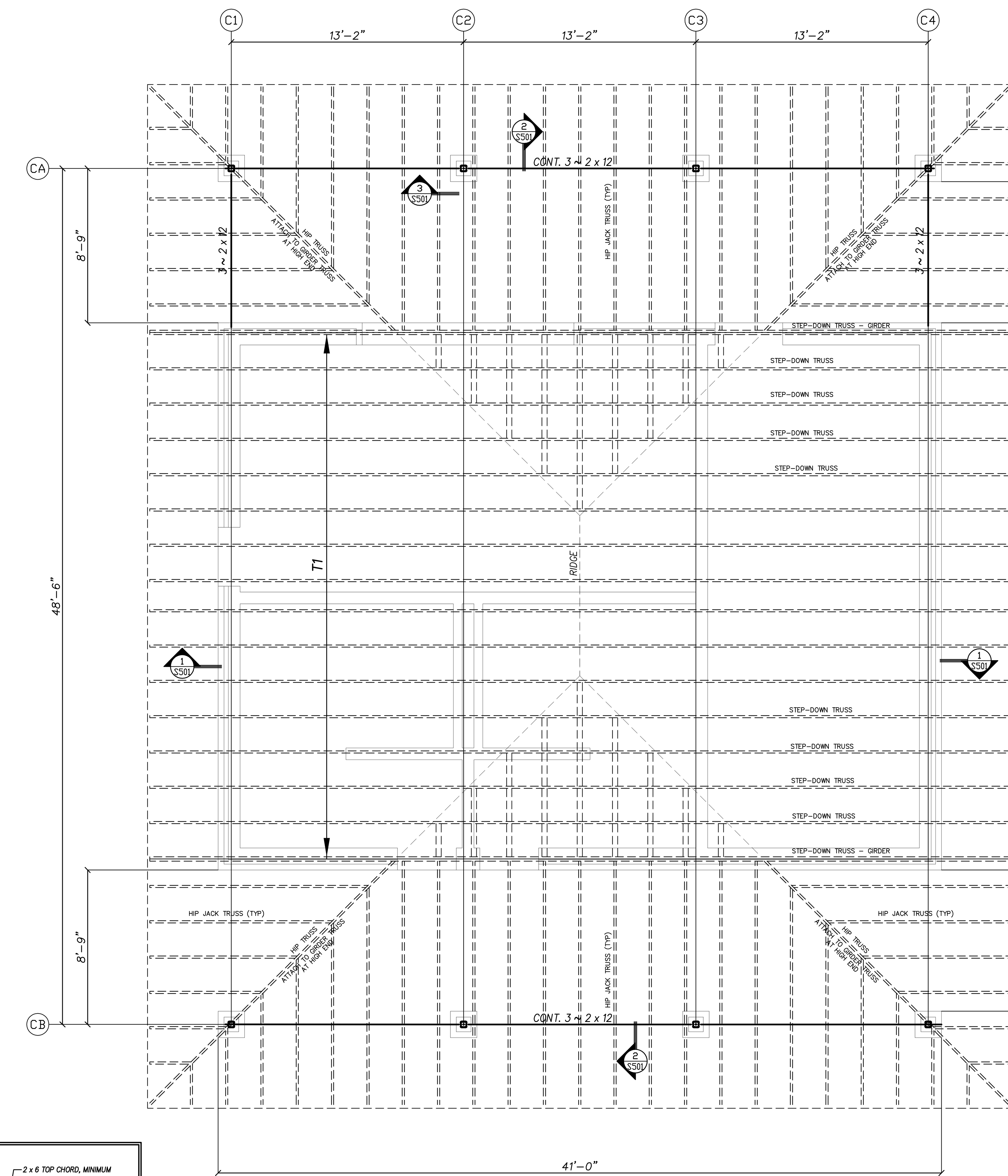
1.) CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT REQUIRED BEFORE PERMANENT DIAPHRAM AND BRACING MEMBERS ARE IN PLACE.

2.) ALL CONNECTIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.) TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

TRUSS LOADING

- – DL = ACTUAL TRUSS WEIGHT + 3 PSF
- – LL = 20 PSF
- – LIVE LOAD REDUCTION DUE TO AREA SUPPORTED BY COMPONENT IS NOT PERMITTED.
- – LIVE LOAD REDUCTION DUE TO SLOPE OF ROOF TRUSS IS PERMITTED.
- – SEE THIS SHEET FOR REQUIRED WIND LOAD ZONE, NOTES, AND ASCE VERSION.
- – NORTH CAROLINA BUILDING CODE – LATEST RECOGNIZED VERSION – SHALL BE USED FOR WIND LOAD DETERMINATIONS.



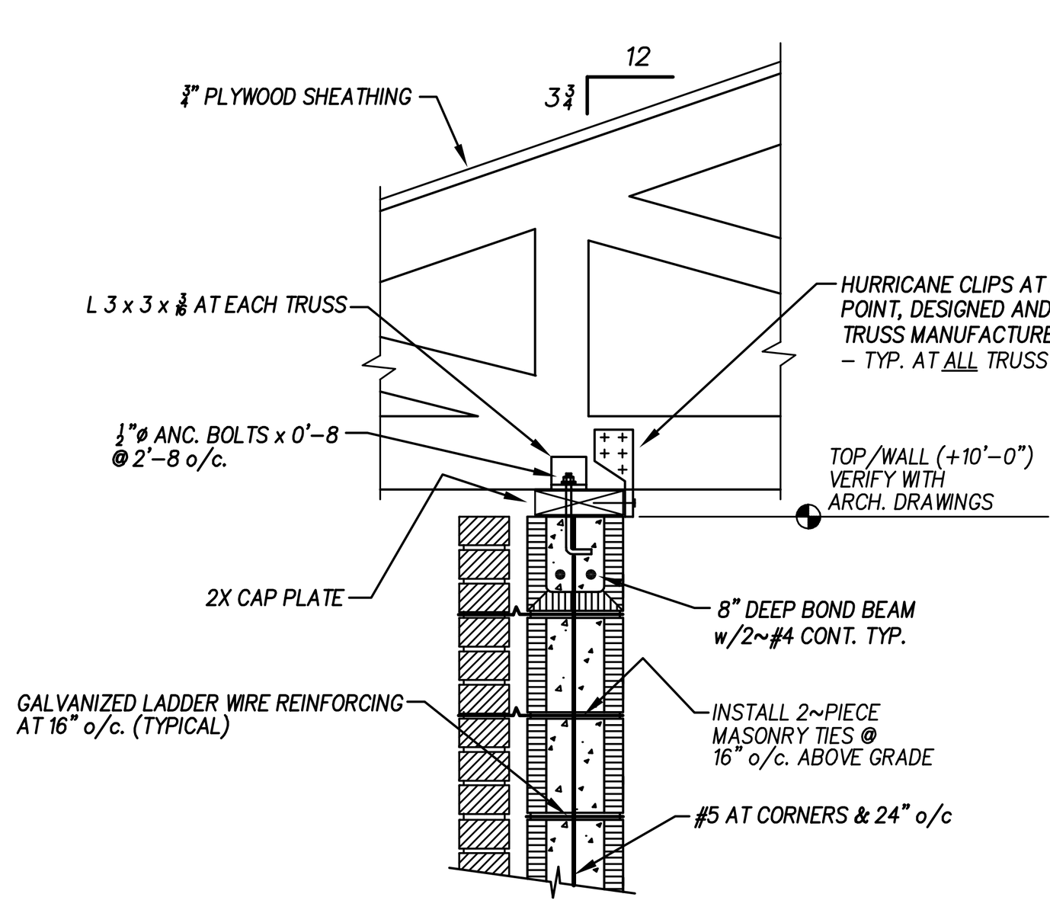
CONCESSIONS BUILDING ROOF FRAMING PLAN

$\frac{1}{4}$" = 1'-0"

1.) TRUSS SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. HANDLING AND ERECTION OF TRUSSES SHALL BE IN ACCORDANCE WITH AISI STANDARDS. ALL CONNECTIONS OF TRUSSES SHALL BE DESIGNED BY TRUSS SUPPLIER.

2.) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ROOF CONSTRUCTION NOTES THAT APPLY.

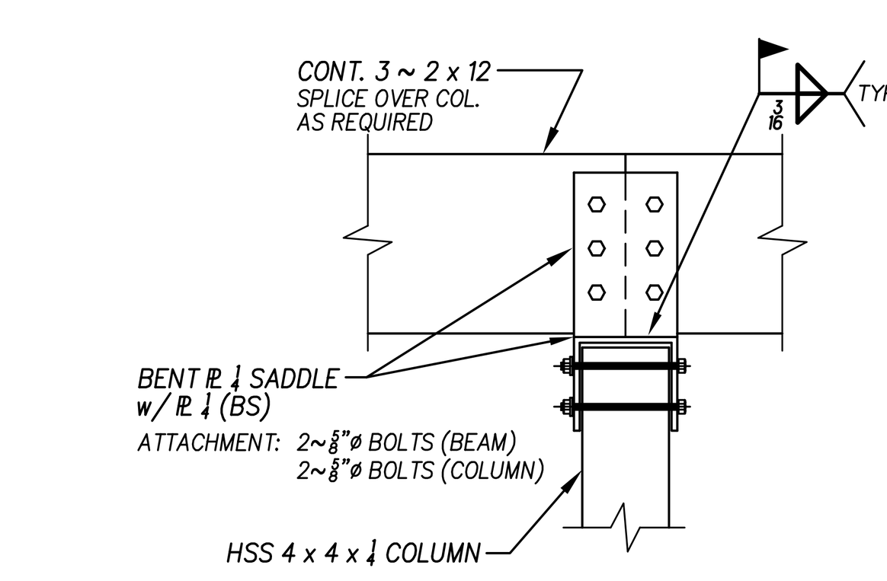
3.) TRUSS SPACING SHALL BE 2'-0"± o/c., MAXIMUM.



1 WALL SECTION

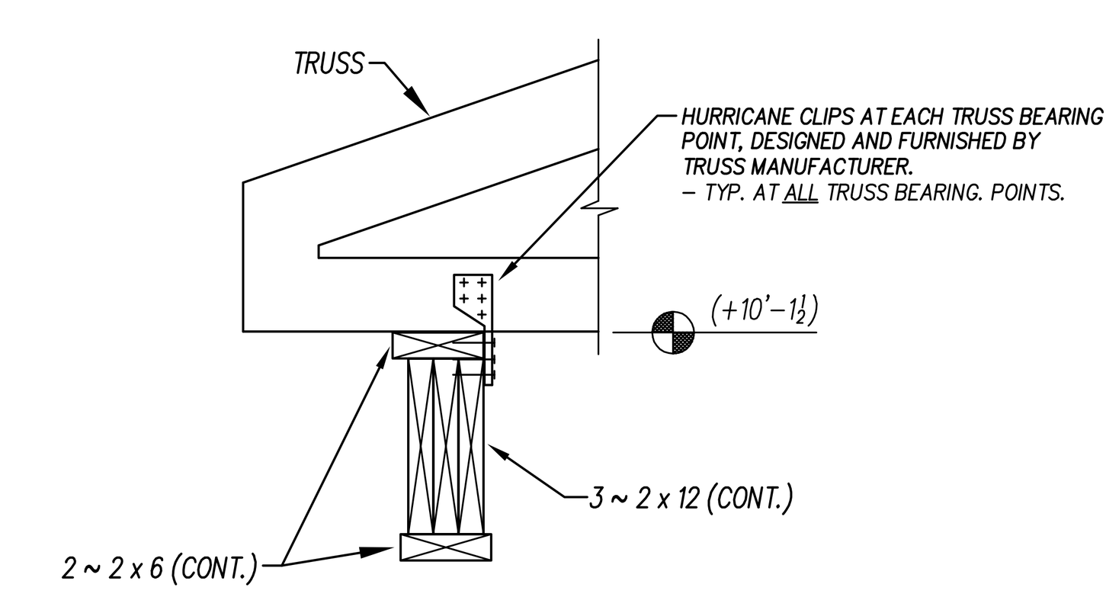
NO SCALE

1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.



3 TYPICAL BEAM BEARING

NO SCALE



2 TRUSS BEAM BEARING

NO SCALE

No. Date: Revision

Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

QUEEN ENGINEERING & DESIGN
NC LIC C-1050

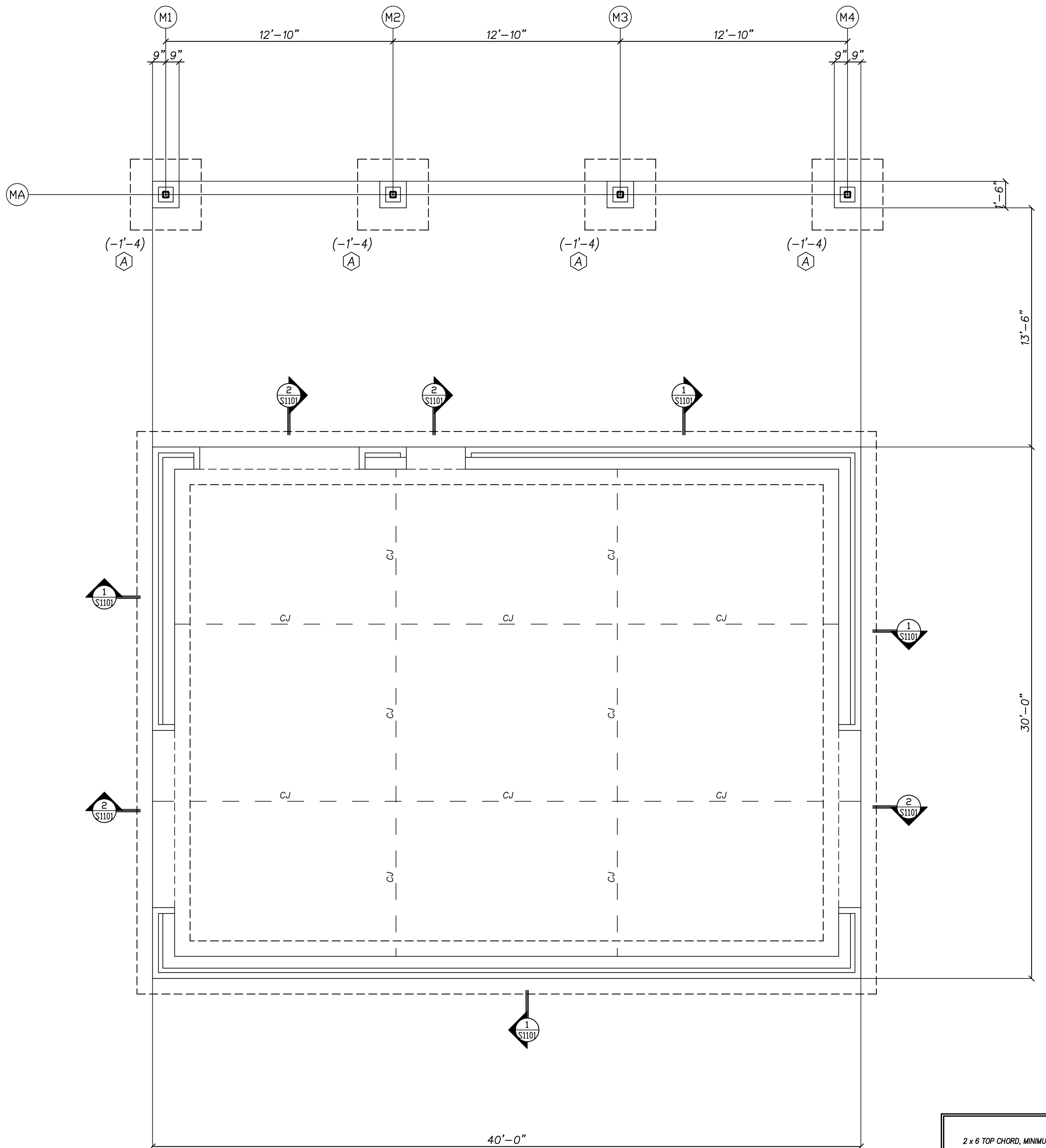
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303

Date: 22 AUG 2024

Drawing no. S 501



MAINTENANCE BUILDING FOUNDATION PLAN

¼" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–   ) ARE BELOW REFERENCE FINISHED FLOOR TO TOP/FOOTING. (+XX.XX')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

9.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

10.) THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO STARTING CONSTRUCTION AND ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

11.) ALL COLUMNS = HSS 4 x 4 x ¼, TYP. U.O.N.

DESIGN CODE DATA (MAINTENANCE BLDG. ONLY)

1. IMPORTANCE FACTORS:

WIND	Iw =	1.0
SNOW	Is =	1.1
SEISMIC	Ie =	1.25

2. LIVE LOAD:

ROOF	20 PSF
PLATFORMS	60 PSF
CORRIDORS	80 PSF
STAIRS	100 PSF

3. DEAD LOAD:

ROOF	20 PSF (MAXIMUM)

4. SNOW LOAD:

Pg	10.0 PSF
Ct	1.0
Ce	0.9
Pf	8.5 PSF
Ps	8.5 PSF

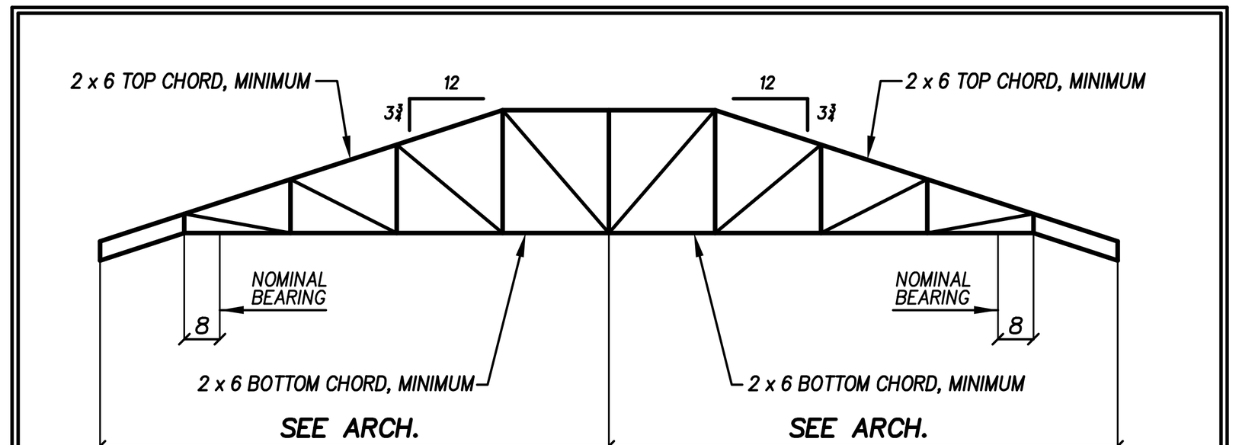
5. WIND LOAD: V_{ULT} = 130 3 SEC PEAK GUST MPH (ASCE 7 – 10)
V_{ASD} = 101 MPH

EXPOSURE	C
INTERNAL PRES. COEFF.	+/– 0.18 (ENCLOSED)
MWFRS DESIGN WIND PRES.	41.0 PSF
WIND BASE SHEARS	V_X (KIPS) = 28.2 V_Y (KIPS) = 25.6

6. SEISMIC DESIGN (ASCE 7 – 10):

Ss	0.097
S1	0.051
Sms	0.154
Sm1	0.121
Sds	0.104
Sd1	0.081
DESIGN CATEGORY	C
SITE CLASS	D
USE GROUP	II
MWFRS	A. BEARING WALL SYSTEM ORDINARY REINF. MAS. SHEAR WALLS
R	2
Cs	0.1
PROCEDURE	EQUIV. LATERAL FORCE
COMPONENTS	ANCHORED
LATERAL DESIGN CONTROLS:	WIND
SEISMIC BASE SHEARS:	V_X (KIPS) = 21.9 V_Y (KIPS) = 21.9

7. SOIL BEARING VALUE 2000 PSF.
(GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024)



ROOF TRUSS PROFILE – TYPE "T1"

* ALL CONNECTIONS SHALL BE 18 GA. GANGNAIL PLATES BOTH SIDES OF EACH JOINT.
* ALL SPLICE LOCATIONS MUST BE APPROVED BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
* EXACT WEB CONFIGURATIONS MAY VARY FROM THOSE SHOWN ABOVE. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANFUACTURER.

TRUSS GENERAL NOTES

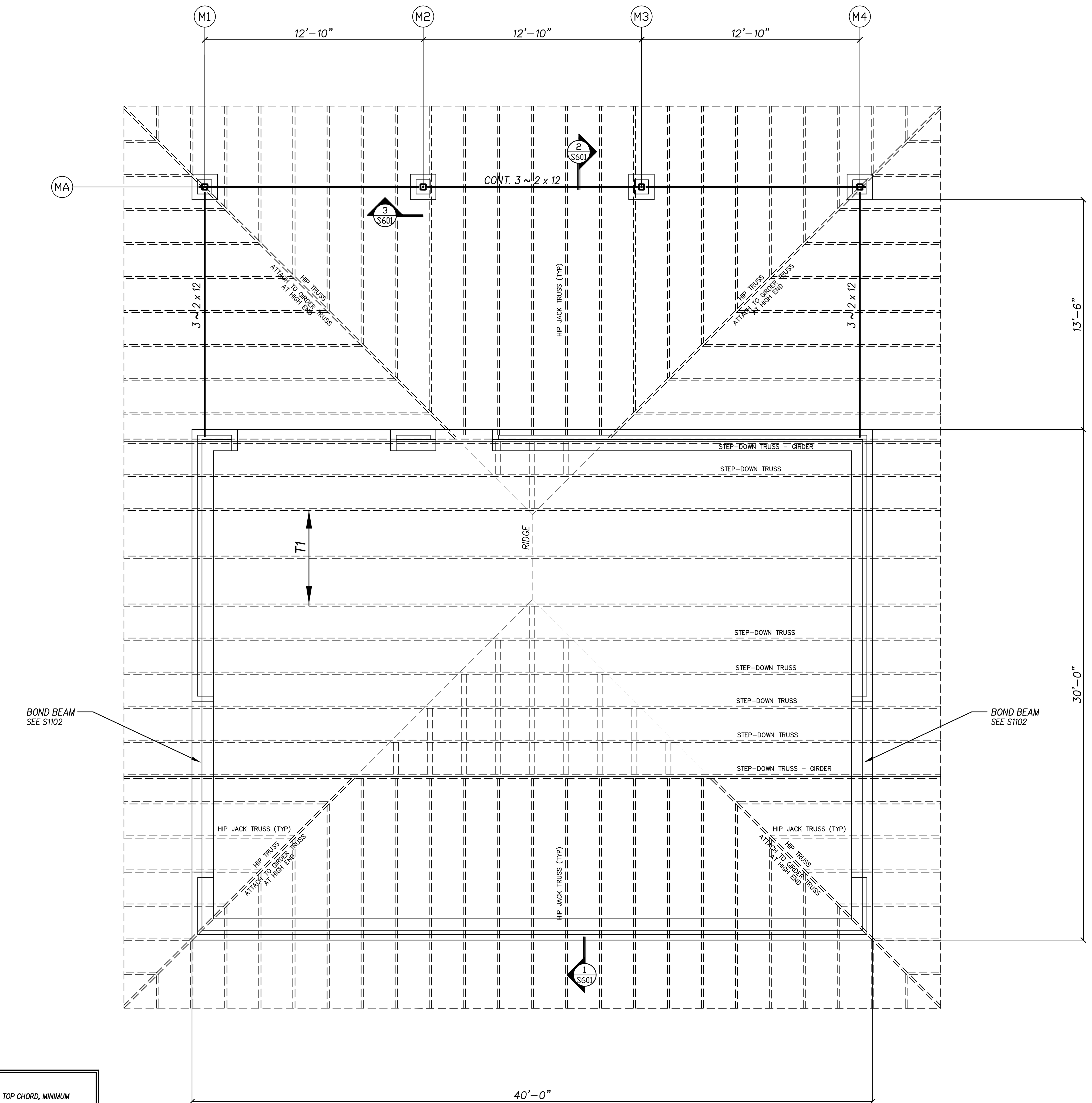
1.) CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT REQUIRED BEFORE PERMANENT DIAPHRAM AND BRACING MEMBERS ARE IN PLACE.

2.) ALL CONNECTIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.)

TRUSS LOADING

– DL = ACTUAL TRUSS WEIGHT + 3 PSF
– LL = 20 PSF
– LIVE LOAD REDUCTION DUE TO AREA SUPPORTED BY COMPONENT IS NOT PERMITTED.
– LIVE LOAD REDUCTION DUE TO SLOPE OF ROOF TRUSS IS PERMITTED.
– SEE THIS SHEET FOR REQUIRED WIND LOAD ZONE, NOTES, AND ASCE VERSION.
– NORTH CAROLINA BUILDING CODE – LATEST RECOGNIZED VERSION – SHALL BE USED FOR WIND LOAD DETERMINATIONS.



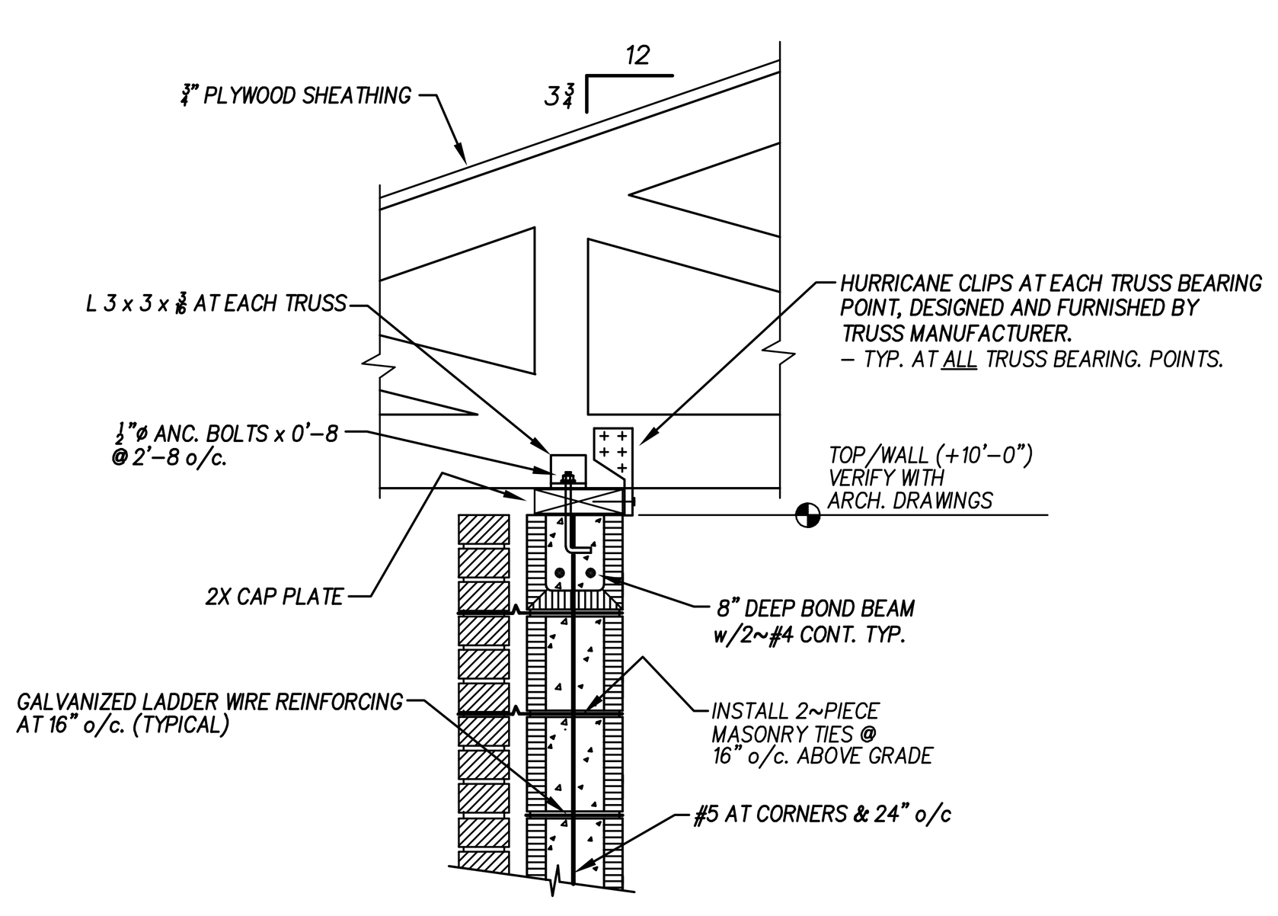
MAINTENANCE BUILDING ROOF FRAMING PLAN

¼" = 1'-0"

1.) TRUSS SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. HANDLING AND ERECTION OF TRUSSES SHALL BE IN ACCORDANCE WITH AISI STANDARDS. ALL CONNECTIONS OF TRUSSES SHALL BE DESIGNED BY TRUSS SUPPLIER.

2.) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ROOF CONSTRUCTION NOTES THAT APPLY.

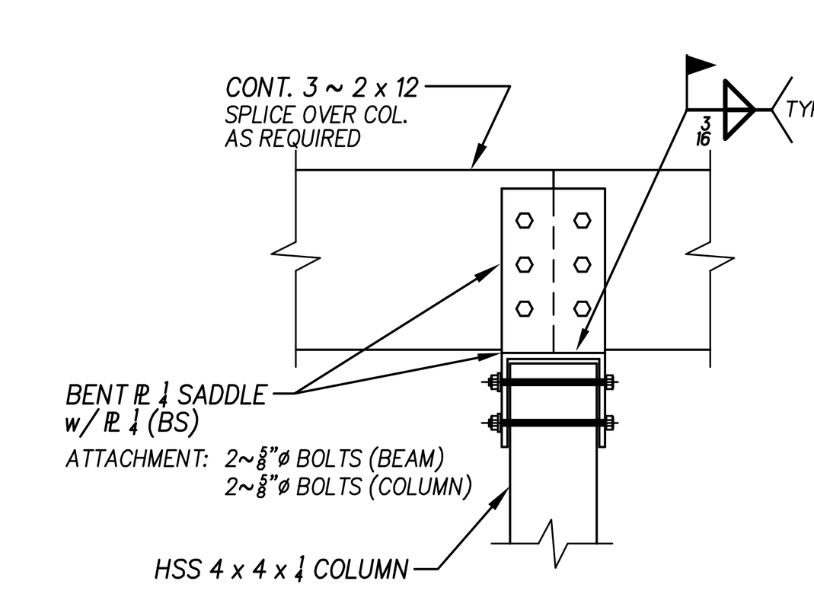
3.) TRUSS SPACING SHALL BE 1'–11"± o/c., MAXIMUM.



1 WALL SECTION

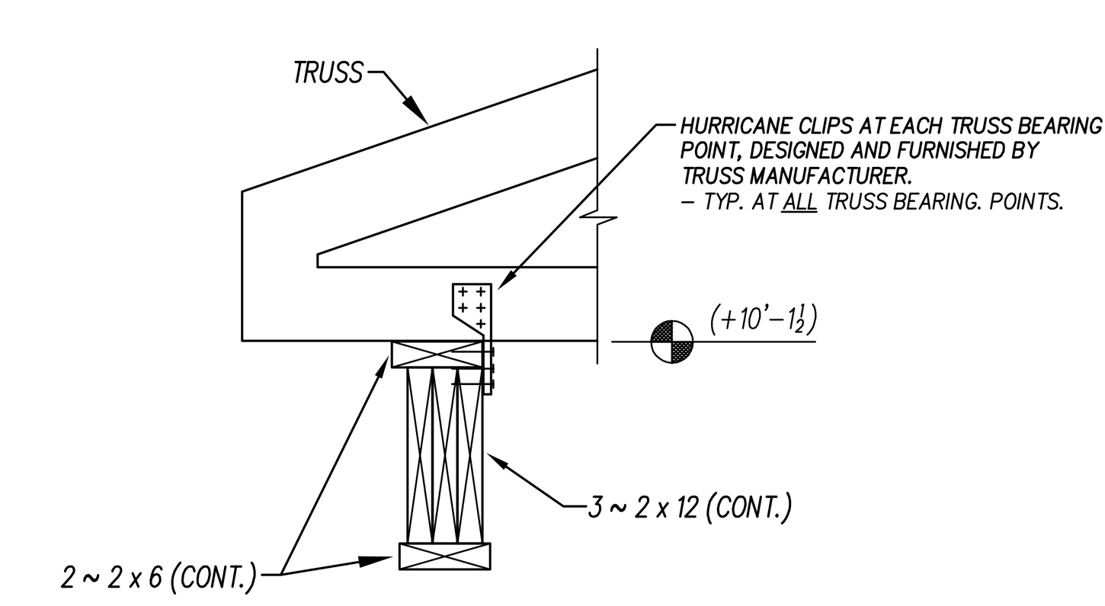
NO SCALE

1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.



3 TYPICAL BEAM BEARING

NO SCALE



2 TRUSS BEAM BEARING

NO SCALE

No.	Date:	Revision

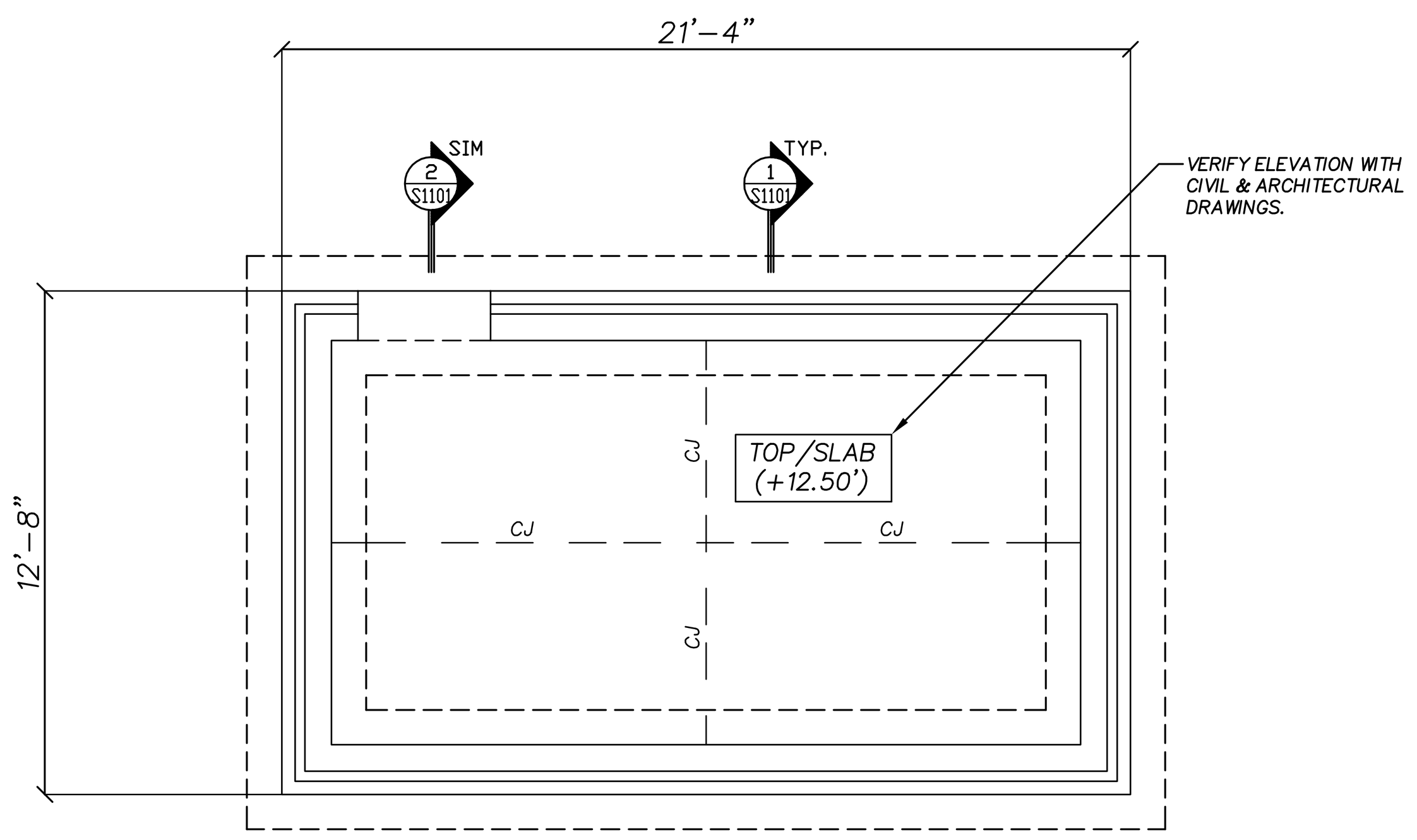
Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

NC LIC C-1050
QED
QUEEN ENGINEERING & DESIGN
5530 MUNFORD RD, SUITE # 115
RALEIGH, NORTH CAROLINA 27612
PHONE (919) 420-0480
FAX (919) 420-0489

NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 601



PUMP HOUSE FOUNDATION PLAN

1/4" = 1'-0"

1.) FOOTING DESIGN BASED ON AN SOIL BRG. CAPACITY OF 2000 PSF. (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS.

2.) ELEV. NOTED (–) ARE BELOW REFERENCE FINISHED FLOOR TO TOP OF FOOTING. (+12.50')

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N.

4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301 AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS. DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON.

6.) SEE S1101 & S1201 ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) ARCHITECTURAL BACKGROUND IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF WALLS.

9.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

DESIGN CODE DATA (PUMP HOUSE BLDG. ONLY)

1. IMPORTANCE FACTORS:

WIND	Iw =	1.0
SNOW	Is =	1.1
SEISMIC	Ie =	1.25

2. LIVE LOAD:

ROOF	20 PSF
PLATFORMS	60 PSF
CORRIDORS	80 PSF
STAIRS	100 PSF

3. DEAD LOAD:

ROOF	20 PSF (MAXIMUM)

4. SNOW LOAD:

Pg	10.0 PSF
Ct	1.0
Ce	0.9
Pf	8.5 PSF
Ps	8.5 PSF

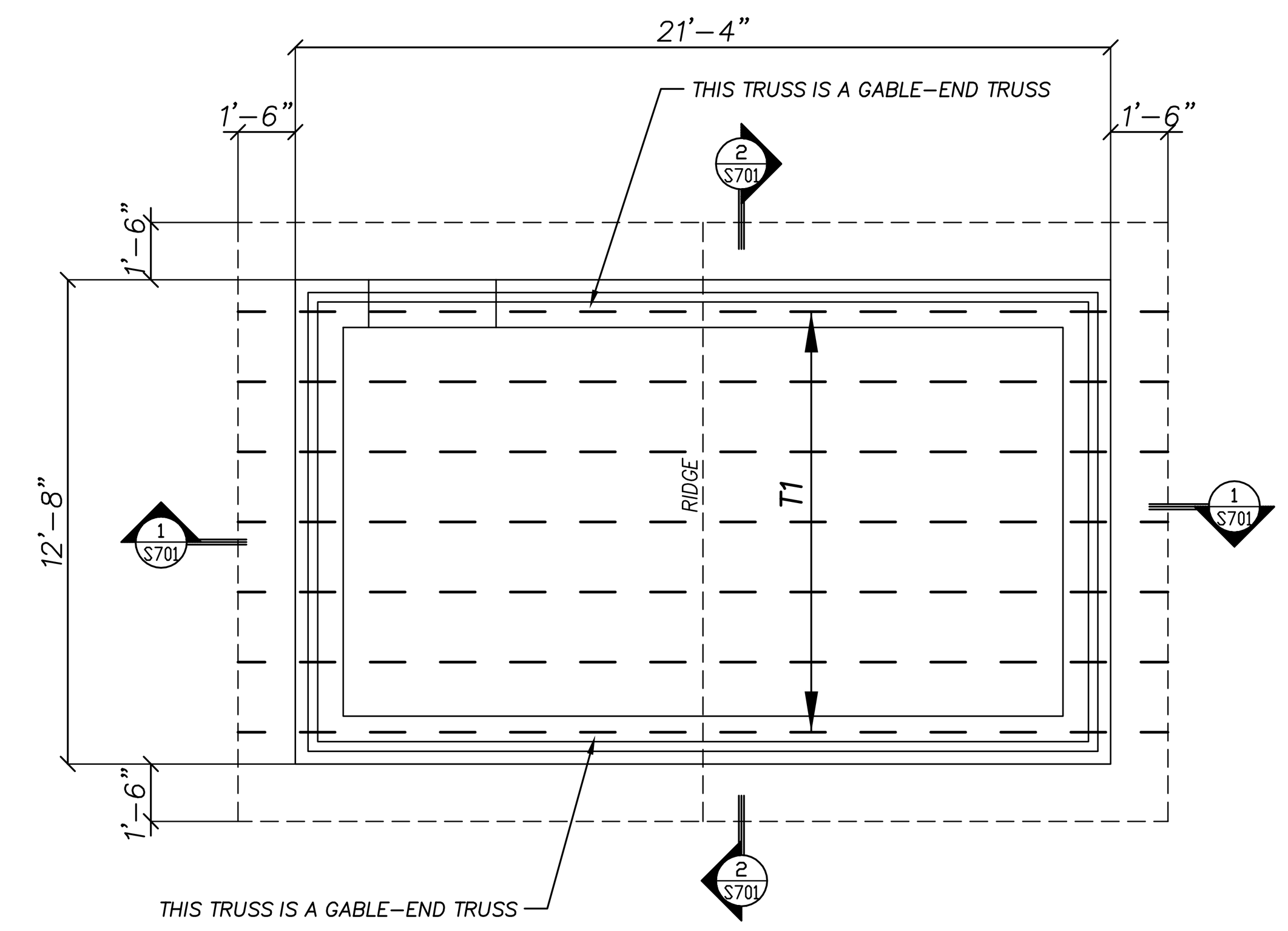
5. WIND LOAD: V_{ULT} = 130 3 SEC PEAK GUST MPH (ASCE 7 – 10)
V_{ASD} = 101 MPH

EXPOSURE	C
INTERNAL PRES. COEFF.	+/– 0.18 (ENCLOSED)
MWFRS DESIGN WIND PRES.	41.0 PSF
WIND BASE SHEARS	V_X (KIPS) = 7.2 V_Y (KIPS) = 9.3

6. SEISMIC DESIGN (ASCE 7 – 10):

Ss	0.097
S1	0.051
Sms	0.154
Sm1	0.121
Sds	0.104
Sd1	0.081
DESIGN CATEGORY	C
SITE CLASS	D
USE GROUP	II
MWFRS	A. BEARING WALL SYSTEM ORDINARY REINF. MAS. SHEAR WALLS
R	2
Cs	0.1
PROCEDURE	EQUIV. LATERAL FORCE
COMPONENTS	ANCHORED
LATERAL DESIGN CONTROLS:	WIND
SEISMIC BASE SHEARS:	V_X (KIPS) = 7.0 V_Y (KIPS) = 7.0

7. SOIL BEARING VALUE 2000 PSF.
(GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024)



PUMP HOUSE ROOF FRAMING PLAN

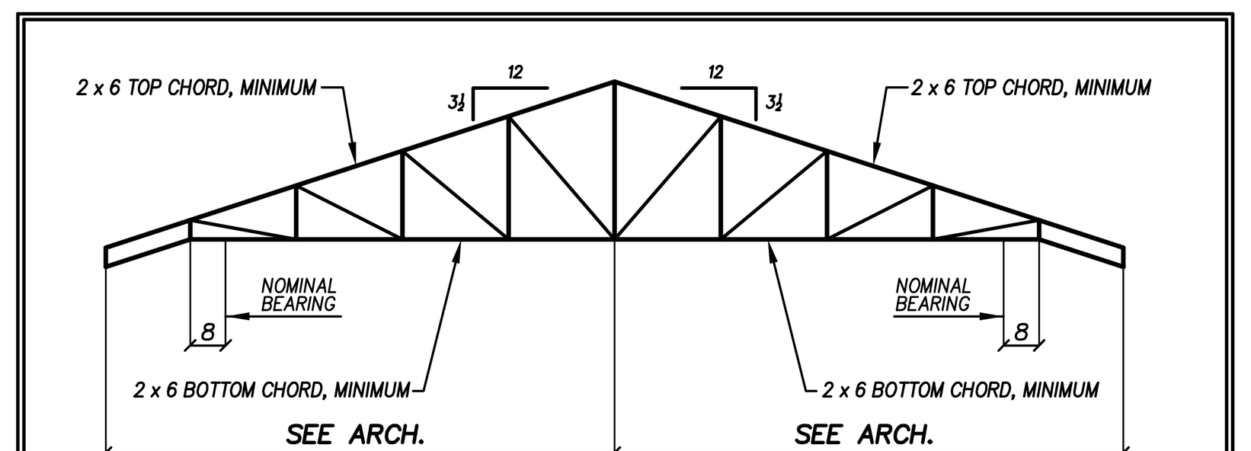
1/4" = 1'-0"

1.) TRUSS SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. HANDLING AND ERECTION OF TRUSSES SHALL BE IN ACCORDANCE WITH AISI STANDARDS. ALL CONNECTIONS OF TRUSSES SHALL BE DESIGNED BY TRUSS SUPPLIER.

2.) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ROOF CONSTRUCTION NOTES THAT APPLY.

3.) TRUSS SPACING SHALL BE 1'–10±" o/c., MAXIMUM.

4.) SEE S1102 FOR CMU LINTEL DETAILS AND NOTES.



ROOF TRUSS PROFILE – TYPE "T1"

* ALL CONNECTIONS SHALL BE 18 GA. GANGNAIL PLATES BOTH SIDES OF EACH JOINT.
* ALL SPLICE LOCATIONS MUST BE APPROVED BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
* EXACT WEB CONFIGURATIONS MAY VARY FROM THOSE SHOWN ABOVE. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO TRUSS MANFUACTURER.

TRUSS GENERAL NOTES

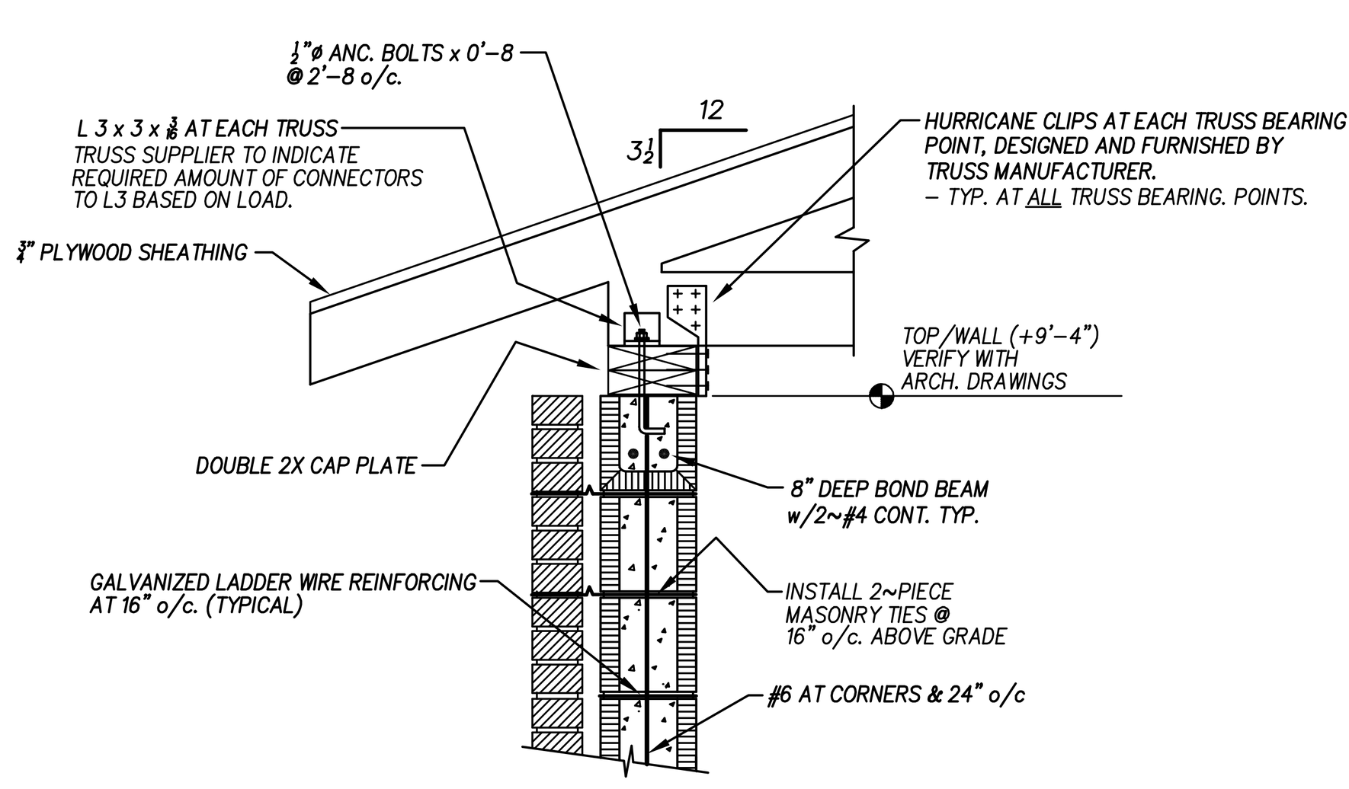
1.) CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT REQUIRED BEFORE PERMANENT DIAPHRAM AND BRACING MEMBERS ARE IN PLACE.

2.) ALL CONNECTIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.) TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

TRUSS LOADING

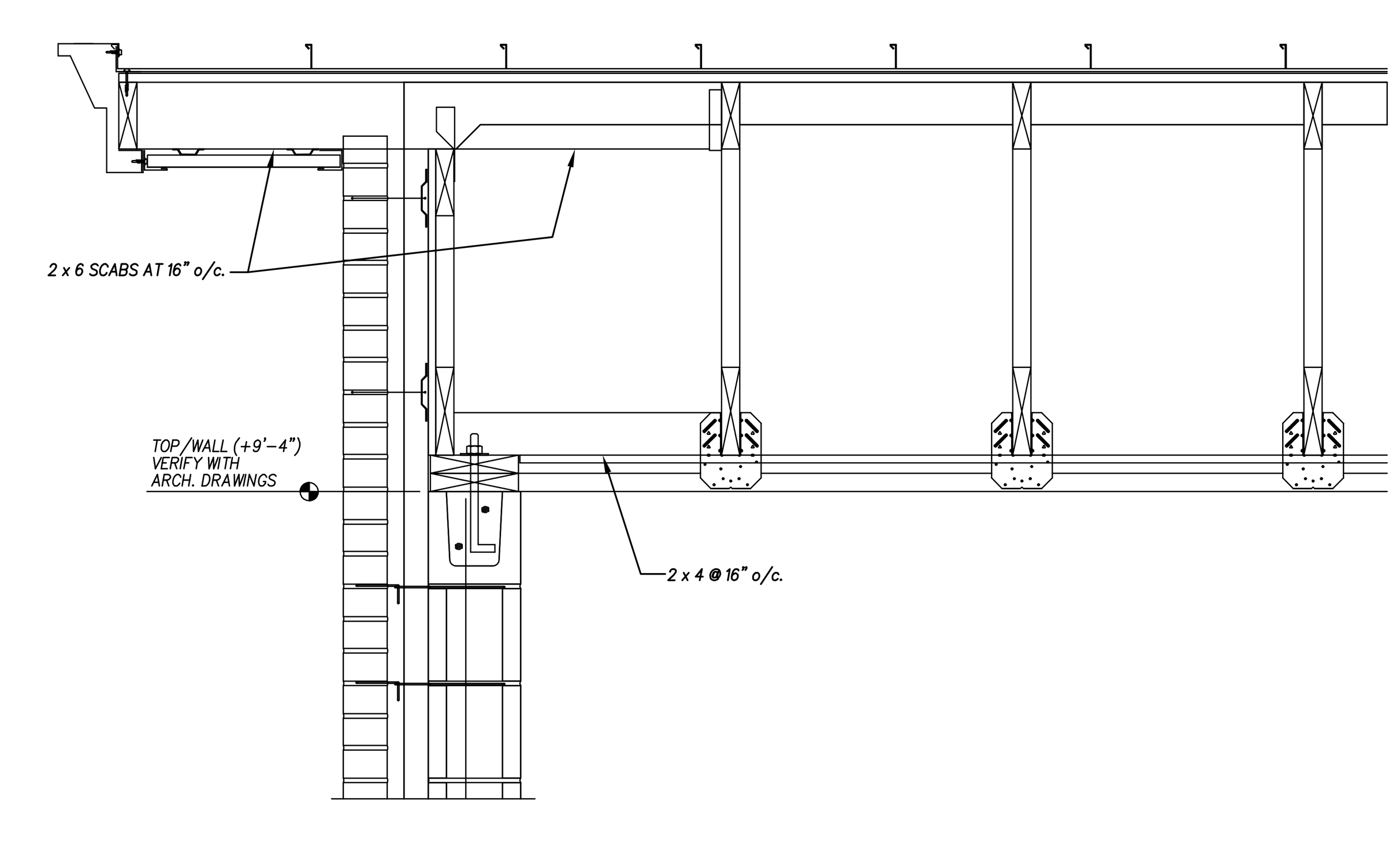
– DL = ACTUAL TRUSS WEIGHT + 3 PSF
– LL = 20 PSF
– LIVE LOAD REDUCTION DUE TO AREA SUPPORTED BY COMPONENT IS NOT PERMITTED.
– LIVE LOAD REDUCTION DUE TO SLOPE OF ROOF TRUSS IS PERMITTED.
– SEE S1201 FOR REQUIRED WIND LOAD ZONE, NOTES, AND ASCE VERSION.
– NORTH CAROLINA BUILDING CODE – LATEST RECOGNIZED VERSION – SHALL BE USED FOR WIND LOAD DETERMINATIONS.



1 WALL SECTION AT PUMP HOUSE

NO SCALE

1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.



2 WALL SECTION AT PUMP HOUSE

NO SCALE

1.) SEE SECTION 1 THIS SHEET FOR ADDITIONAL NOTES THAT APPLY

No. | Date: | Revision

Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

NC LIC C-1050
QED
QUEEN ENGINEERING & DESIGN
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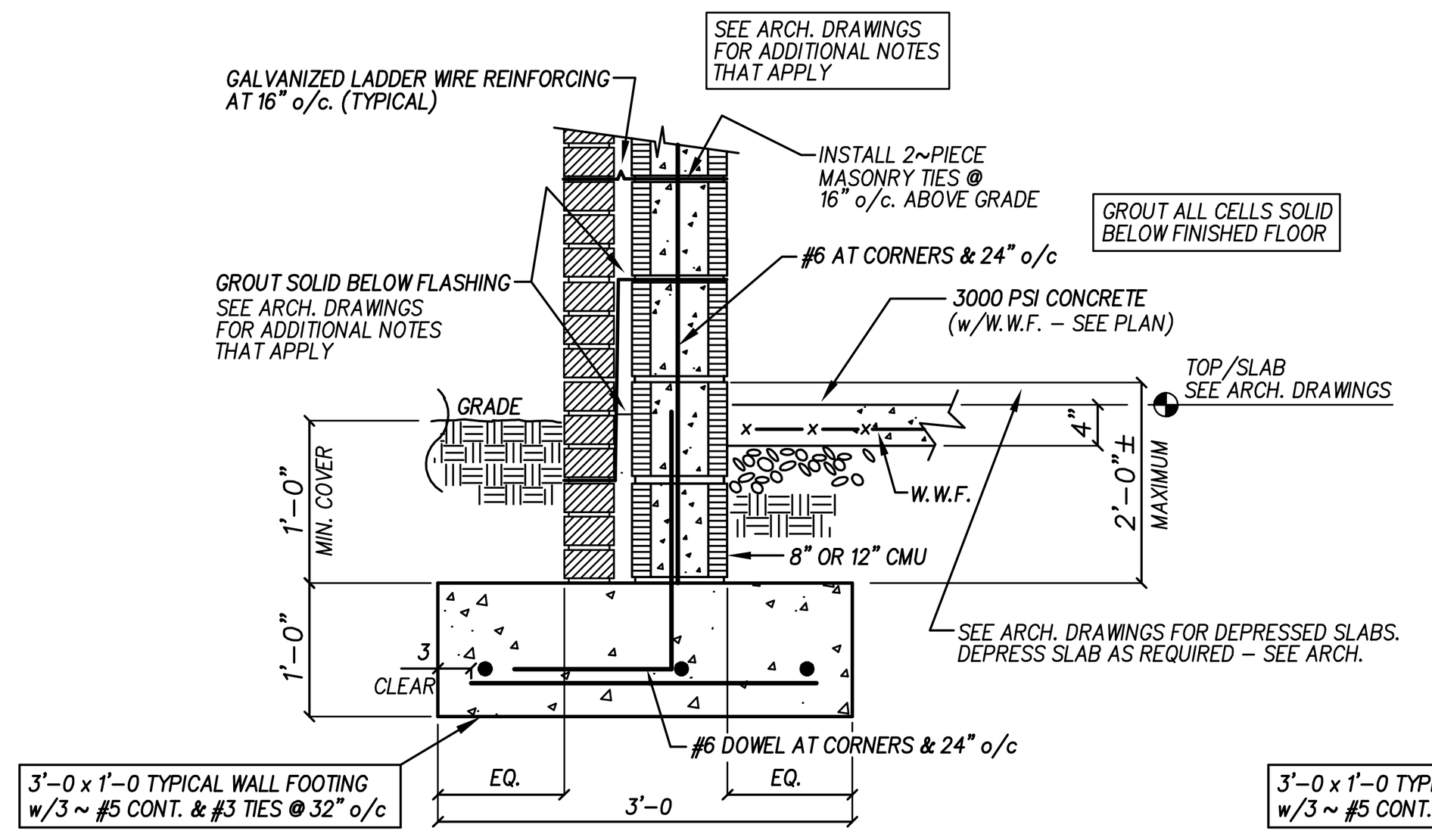
NORTH CAROLINA PROFESSIONAL SEAL 18991 ENGINEER BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

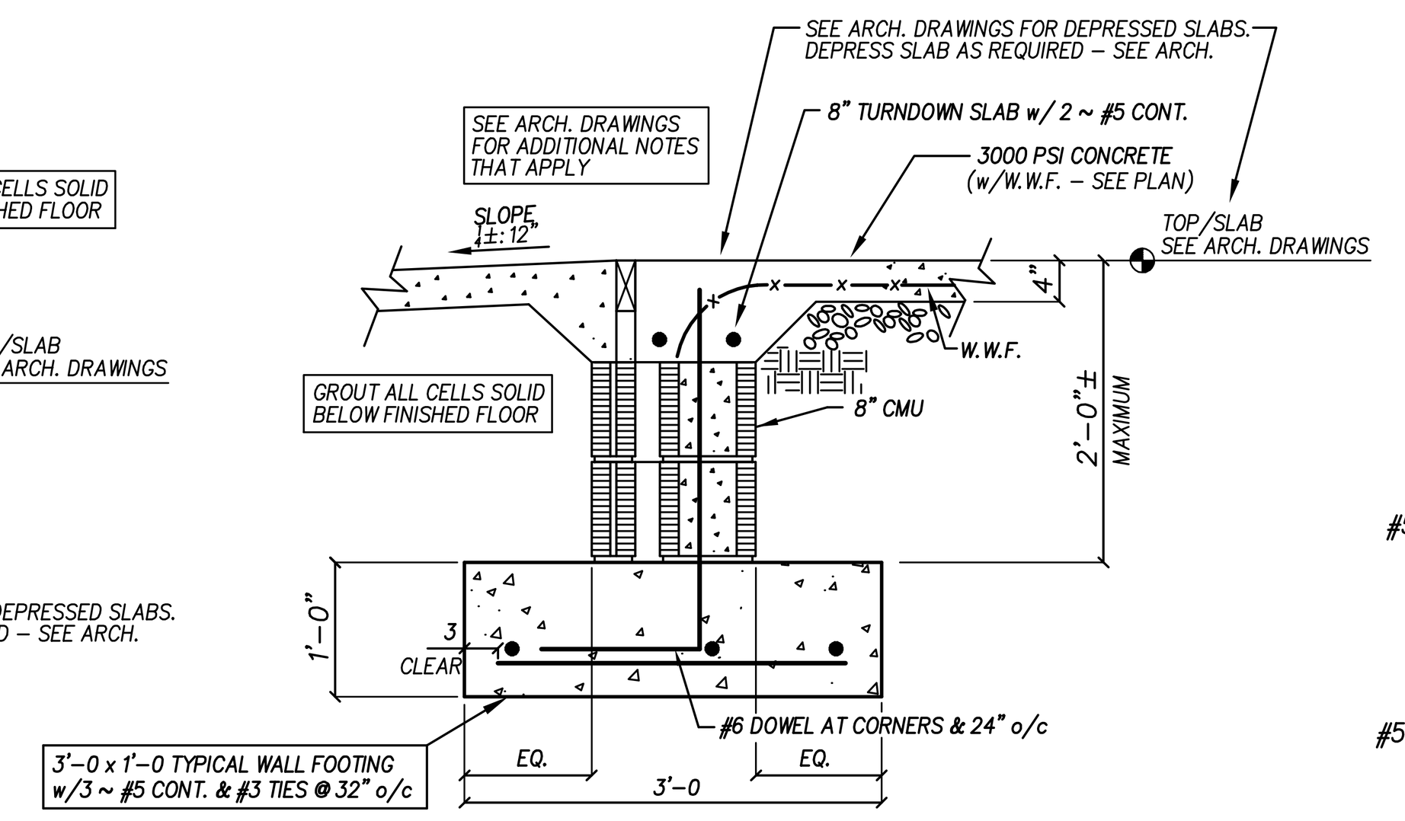
Project No. 22303
Date: 22 AUG 2024
Drawing no. S 701



1 TYPICAL EXTERIOR WALL FOUNDATION SECTION

NO SCALE

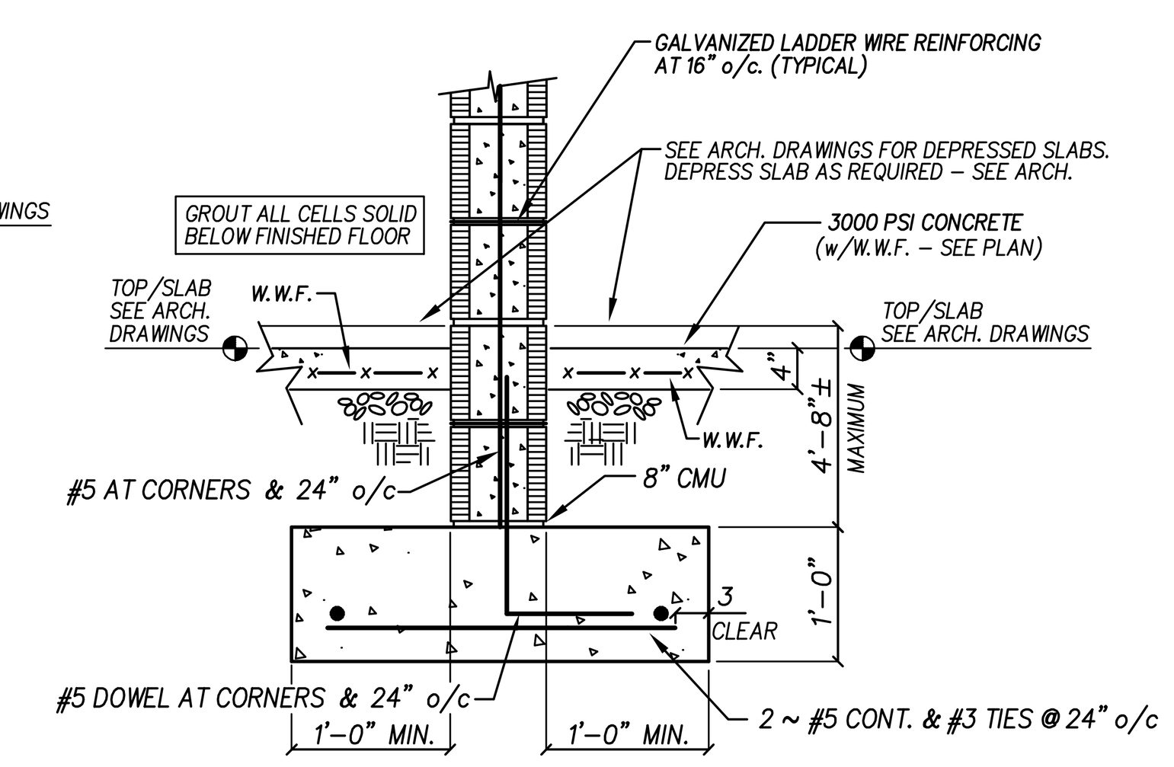
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



2 EXTERIOR WALL ENTRANCE SECTION

NO SCALE

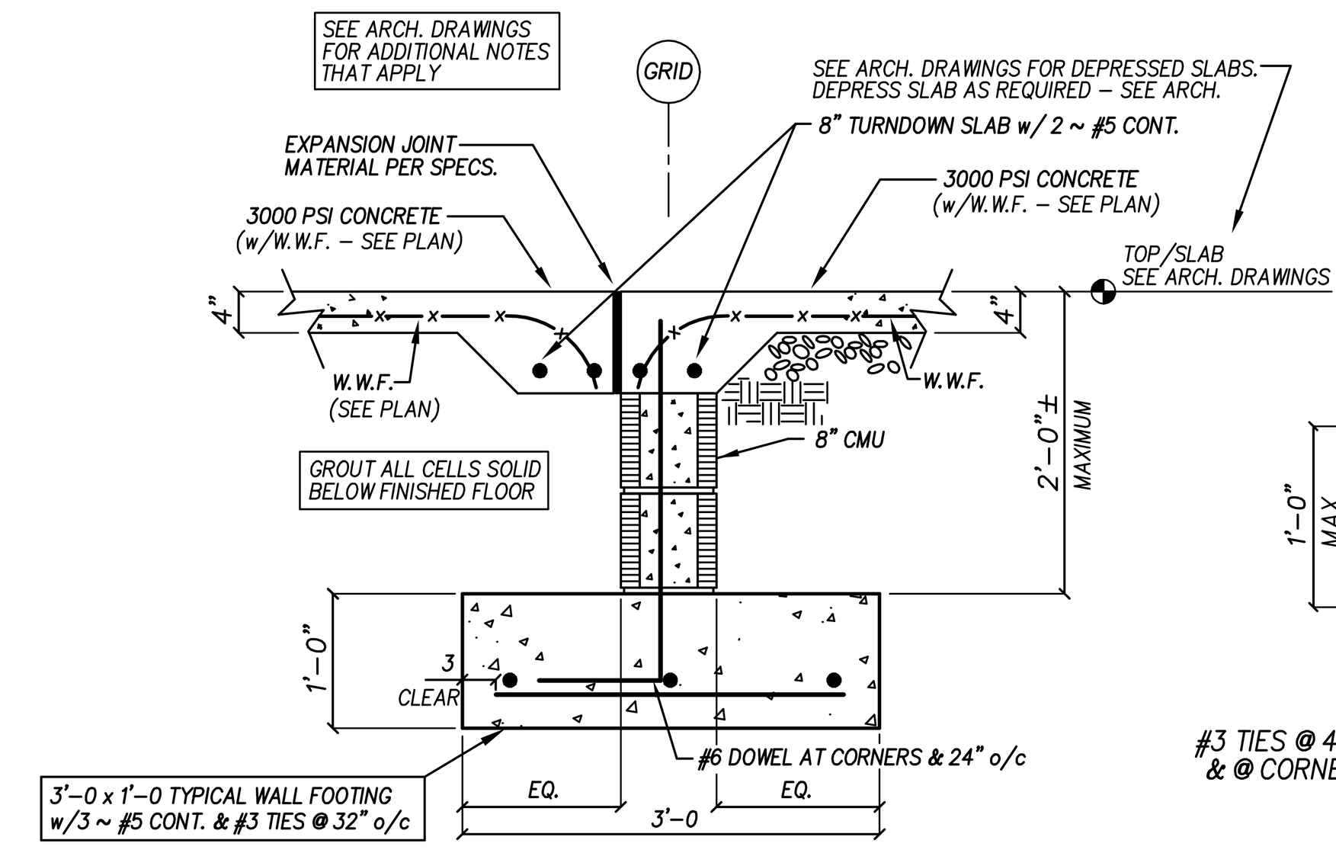
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



3 TYPICAL INTERIOR CMU WALL FOOTING

NO SCALE

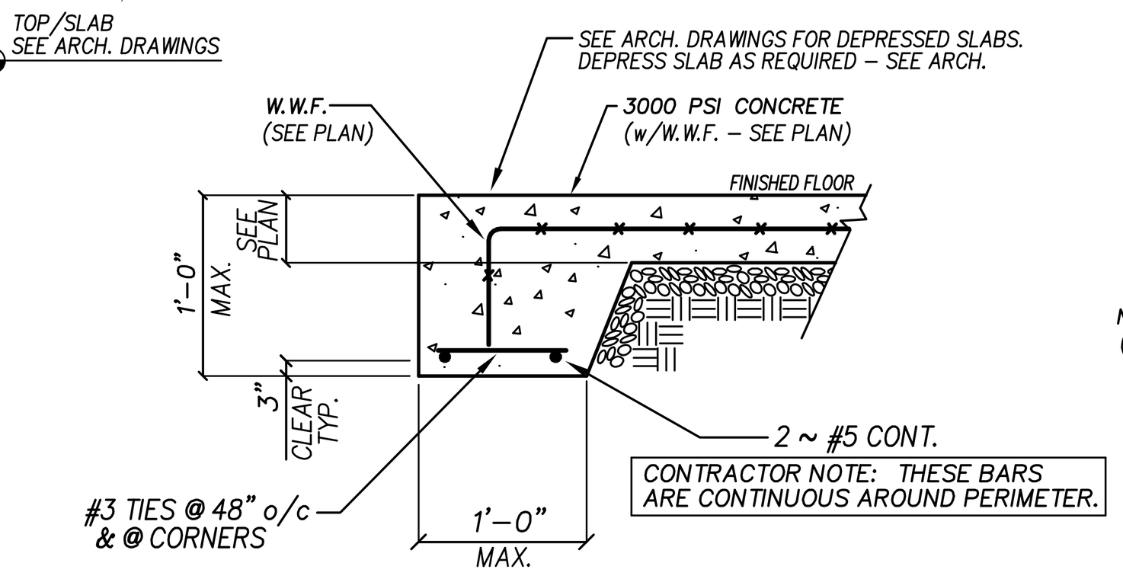
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



4 CONNECTOR / COORIDOR SECTION

NO SCALE

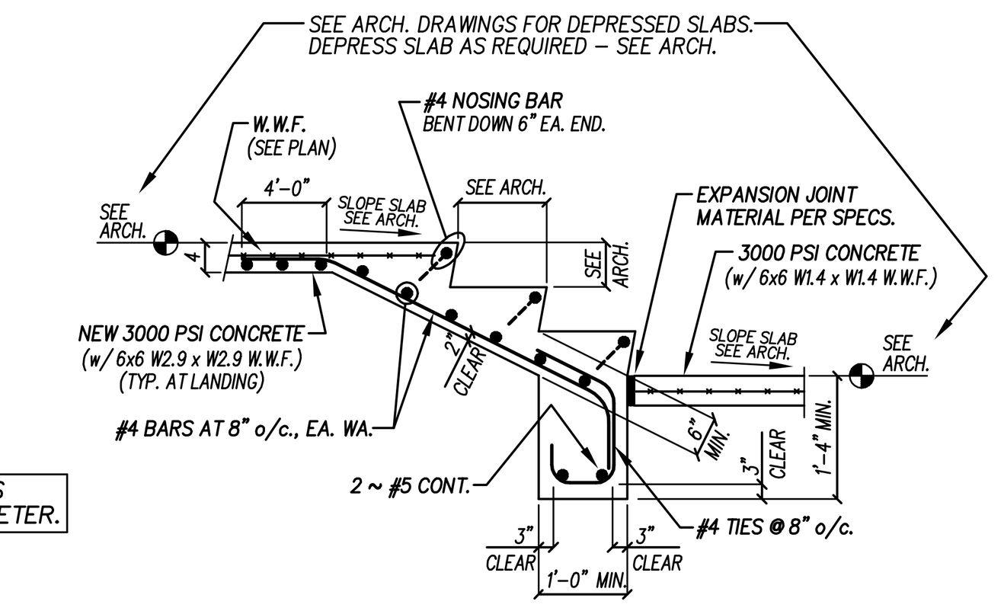
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



5 TYPICAL TURNED DOWN SLAB DETAIL

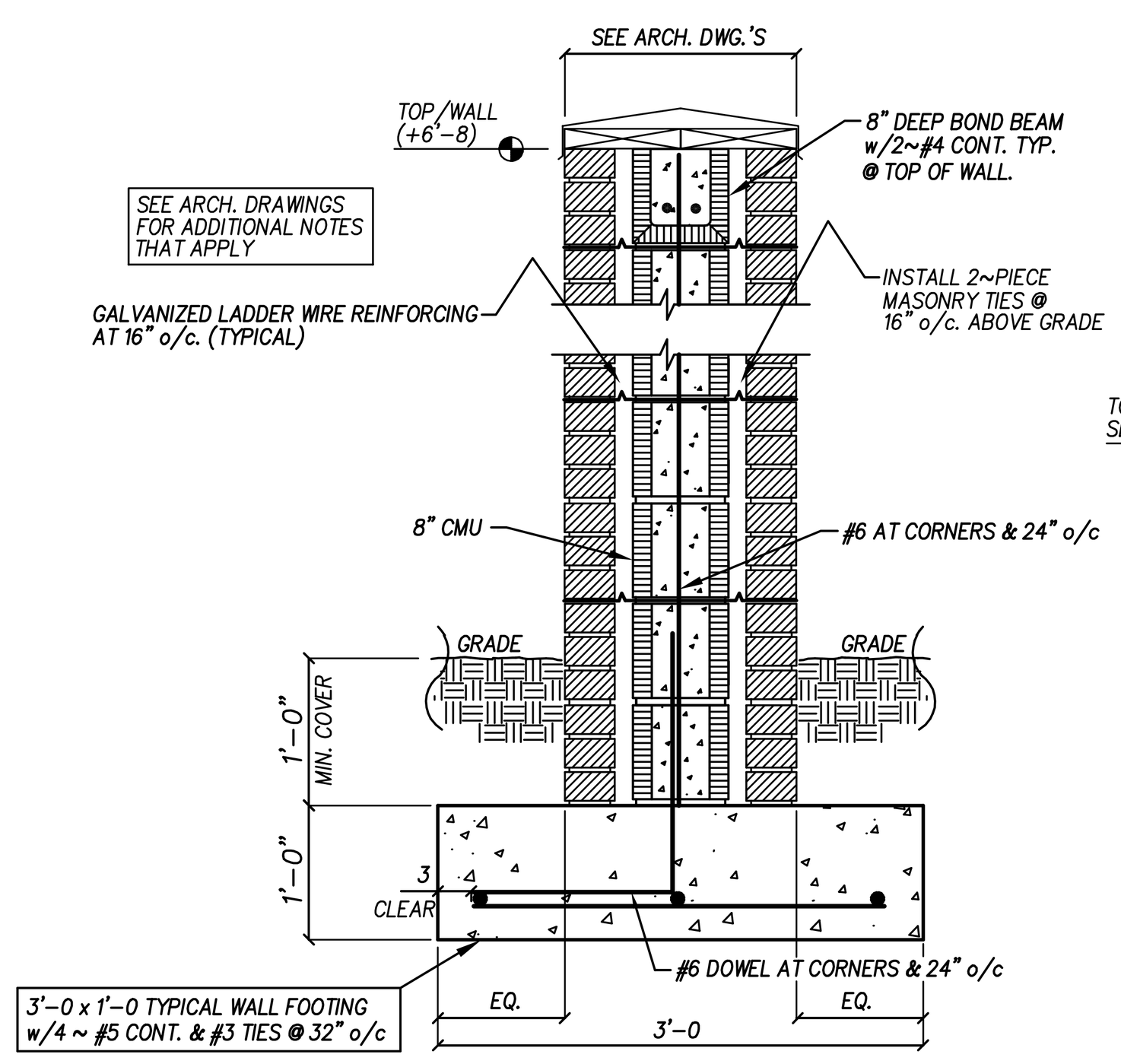
NO SCALE

SEE ARCHITECTURAL DRAWINGS FOR WALL LOCATION AND DIMENSIONS OF ALL TURN DOWN SLAB EDGES



6 TYPICAL POURED STAIR DETAIL

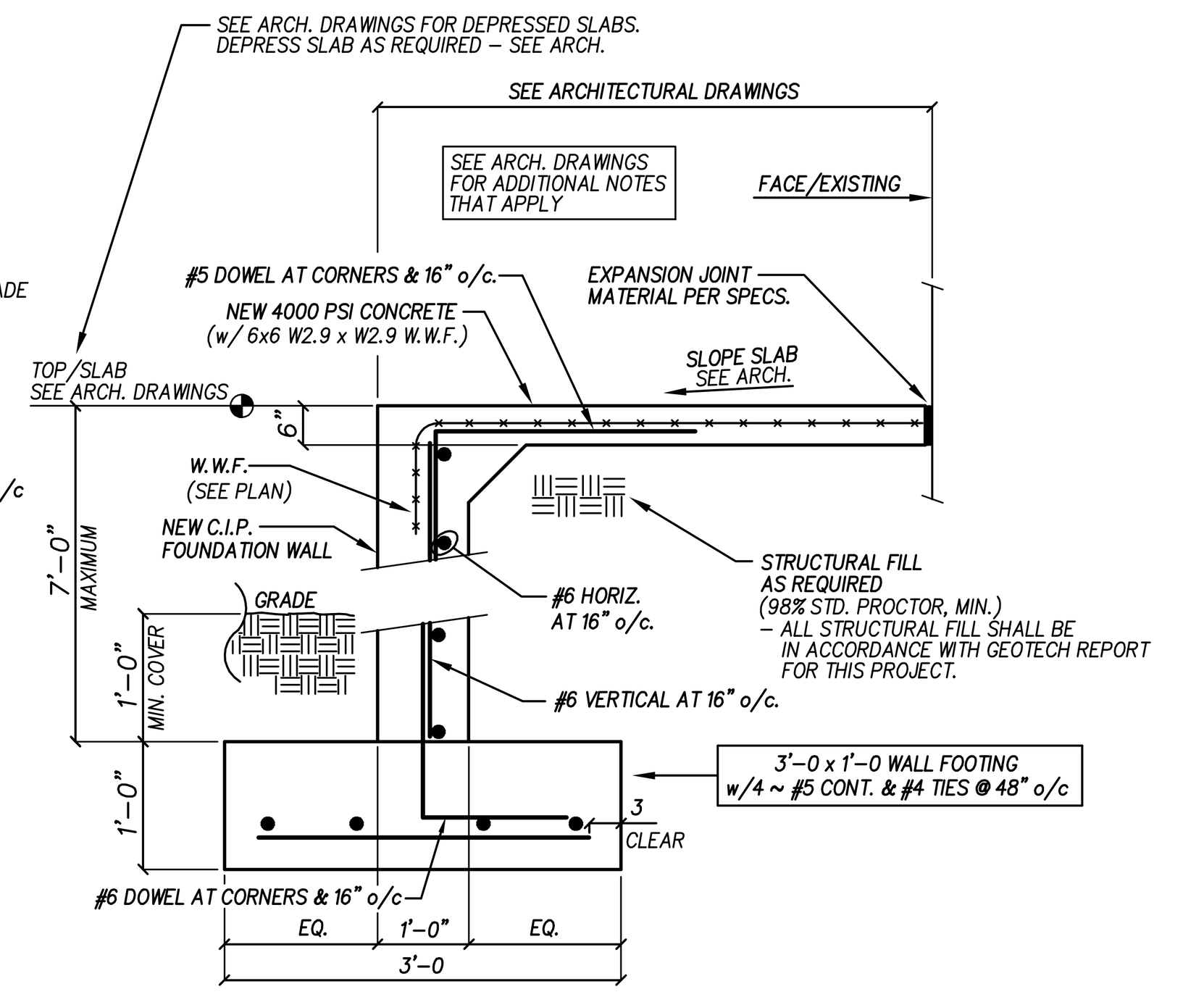
NO SCALE



7 SECTION THROUGH SCREEN WALL

NO SCALE

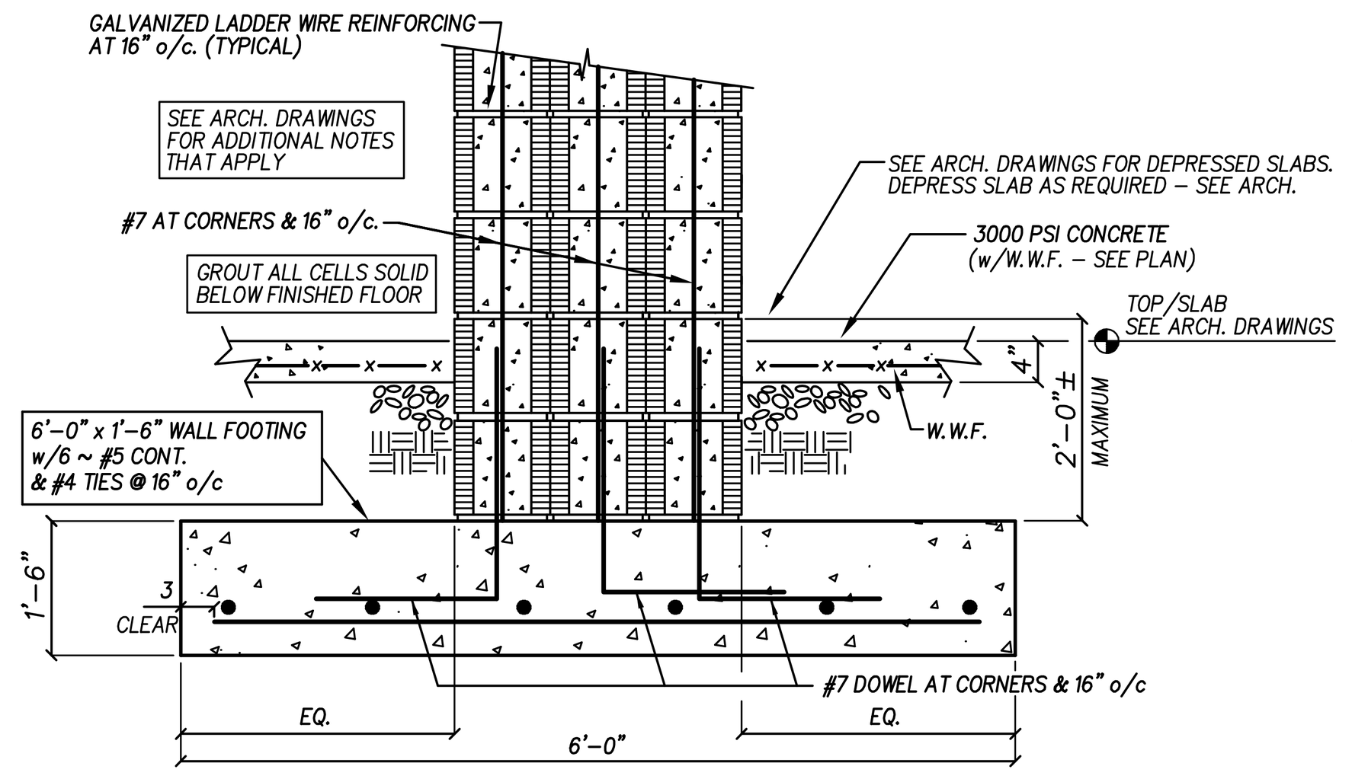
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED GRADE SHALL BE FILLED WITH CONCRETE.



8 CONCRETE RAMP & PLATFORM SECTION

NO SCALE

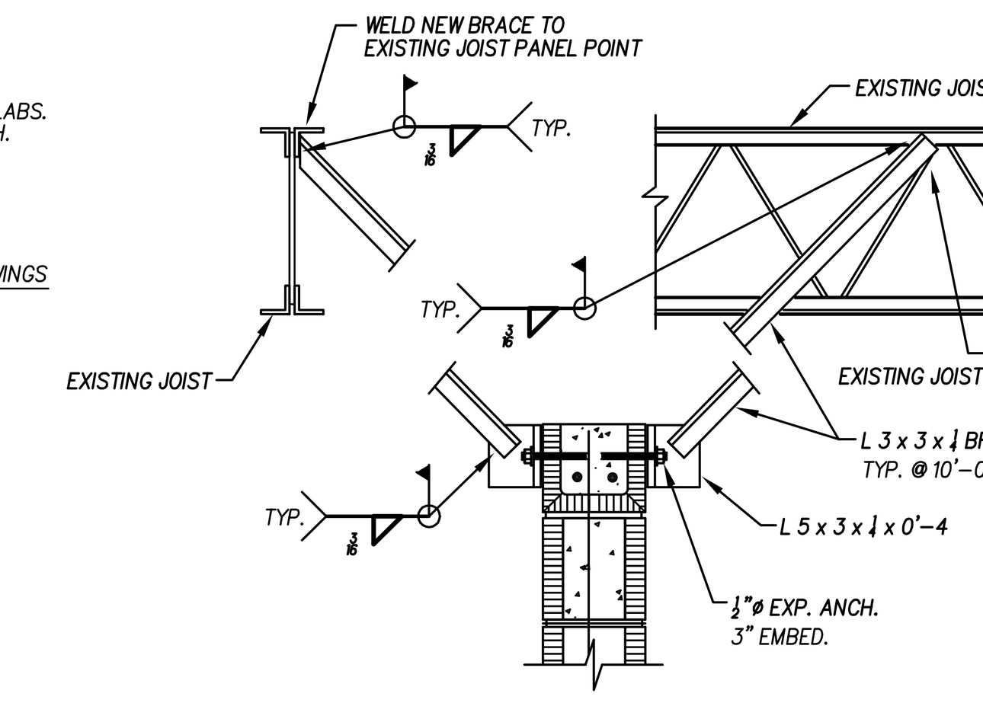
1.) SEE ARCH. DRAWINGS FOR ALL RAMP & PLATFORM LOCATIONS.



9 MULTI-WYTHE FIRE-RATED WALL SECTION

NO SCALE

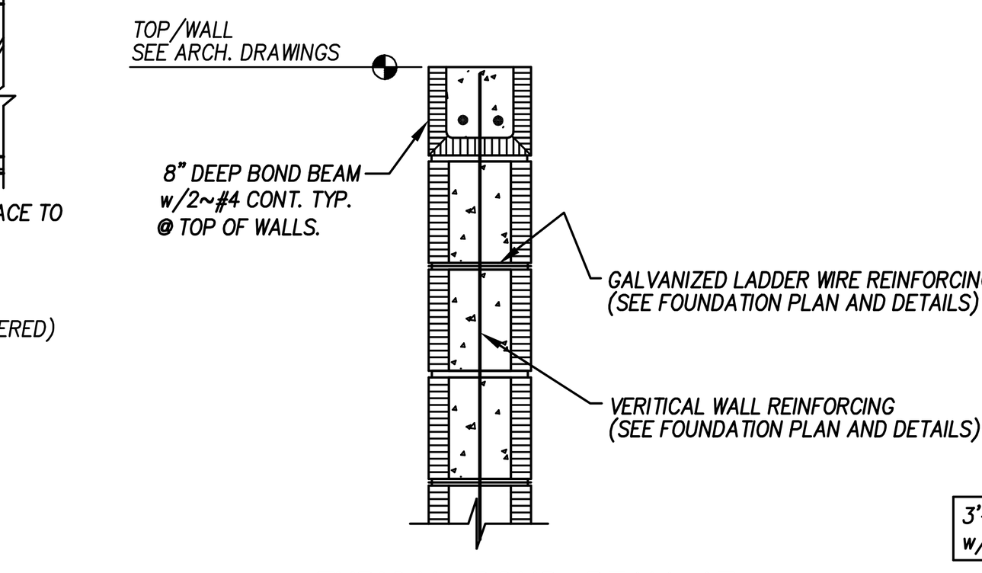
– LAP VERTICAL SPLICES 64"



10 TOP-OF-WALL TIE FOR NEW CMU CLASSROOM PARTITION WALLS

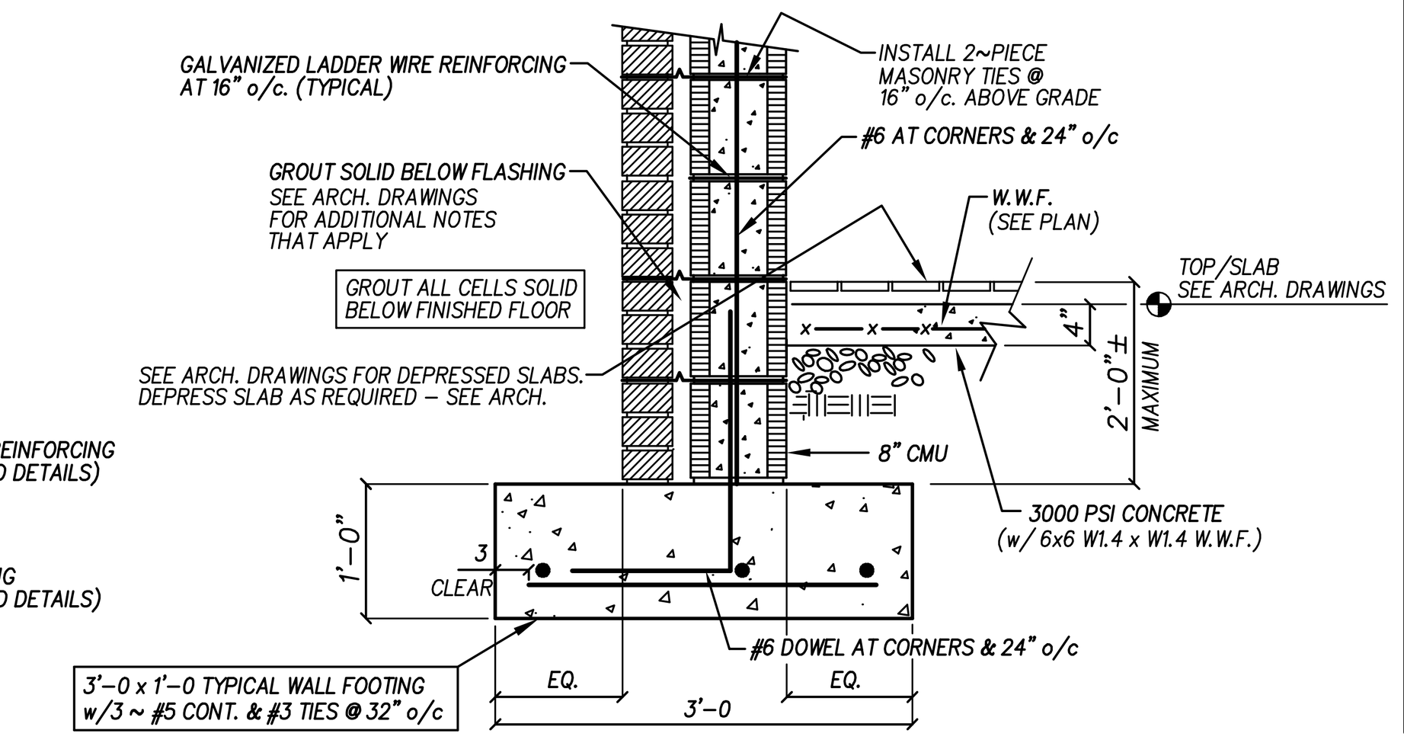
NO SCALE

CONTRACTOR NOTE:
THIS DETAIL IS NEEDED ONLY WHERE CORNER-TO-CORNER LENGTH OF WALLS IS GREATER THAN 20'-0".



11 TYPICAL BOND BEAM AT TOP OF ALL NEW CMU WALLS

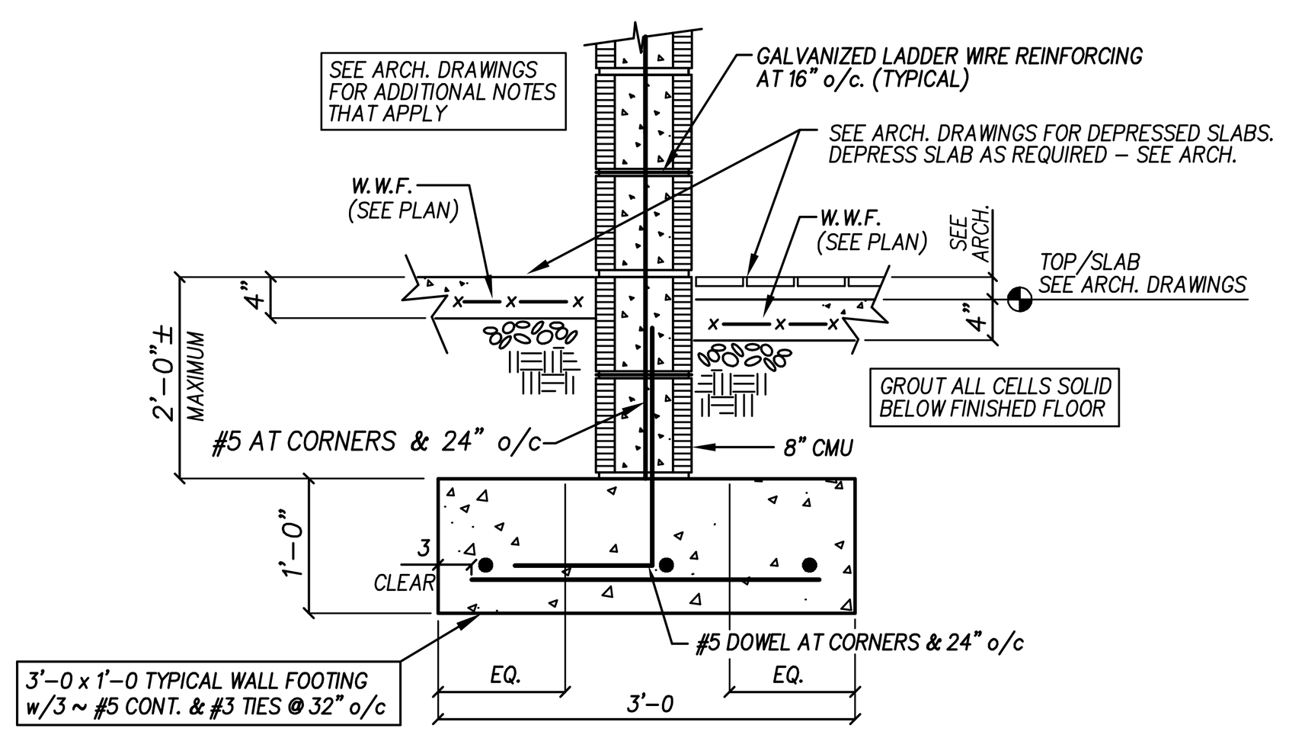
NO SCALE



12 EXTERIOR FOUNDATION SECTION AT TILE

NO SCALE

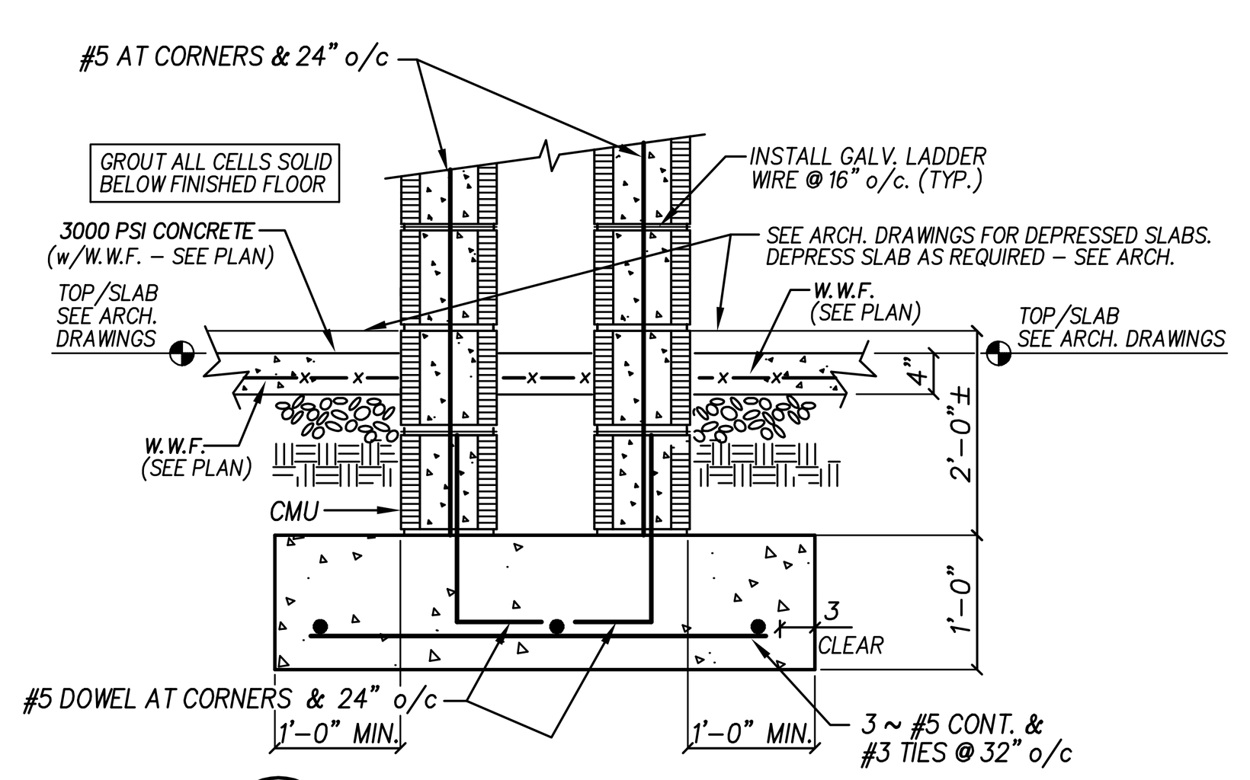
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



13 INTERIOR CMU AT TILE

NO SCALE

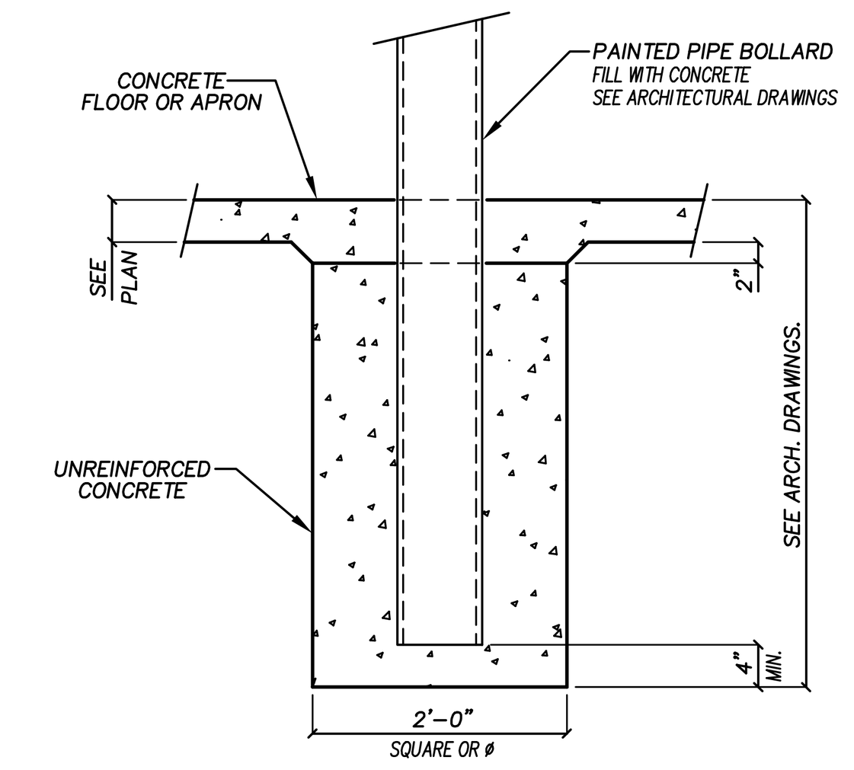
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.



15 DOUBLE WALL SECTION

NO SCALE

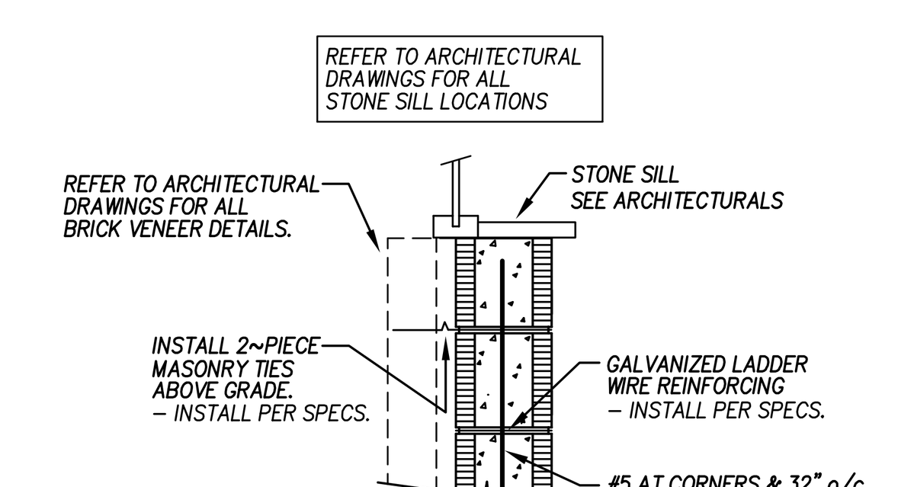
1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.



REFER TO ARCH. DRAWINGS FOR ALL BOLLARD TYPES, SIZES AND LOCATIONS, TYPICAL.

16 TYPICAL BOLLARD FOOTING DETAIL

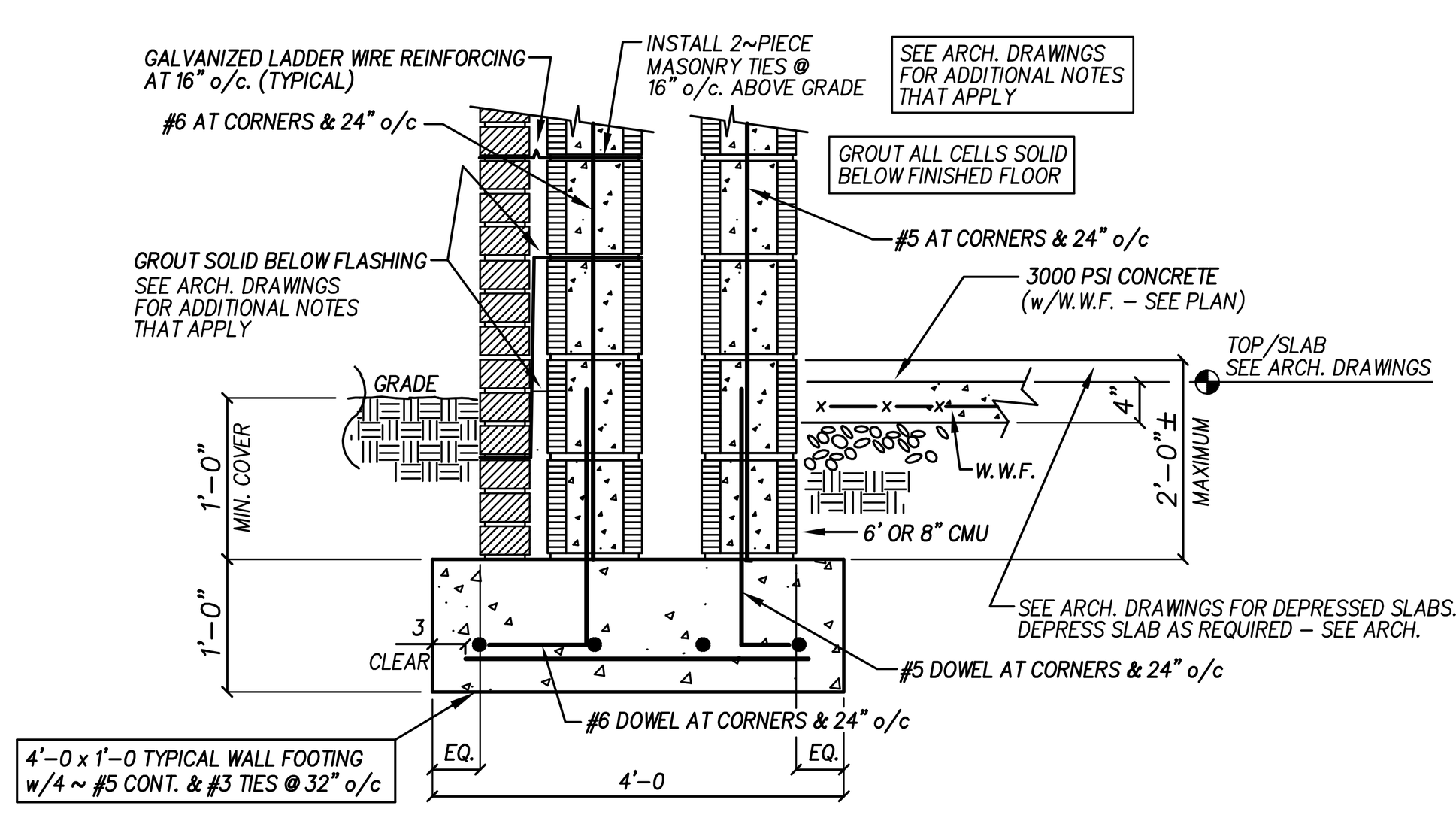
NO SCALE



17 STONE SILL DETAIL AT CMU

NO SCALE

1.) SEE ARCH. DWG.'S FOR ALL LOCATIONS THAT APPLY.
2.) SEE ARCH. DWG.'S FOR ADDITIONAL NOTES THAT APPLY.



18 DOUBLE WALL AT EXTERIOR FOUNDATION SECTION

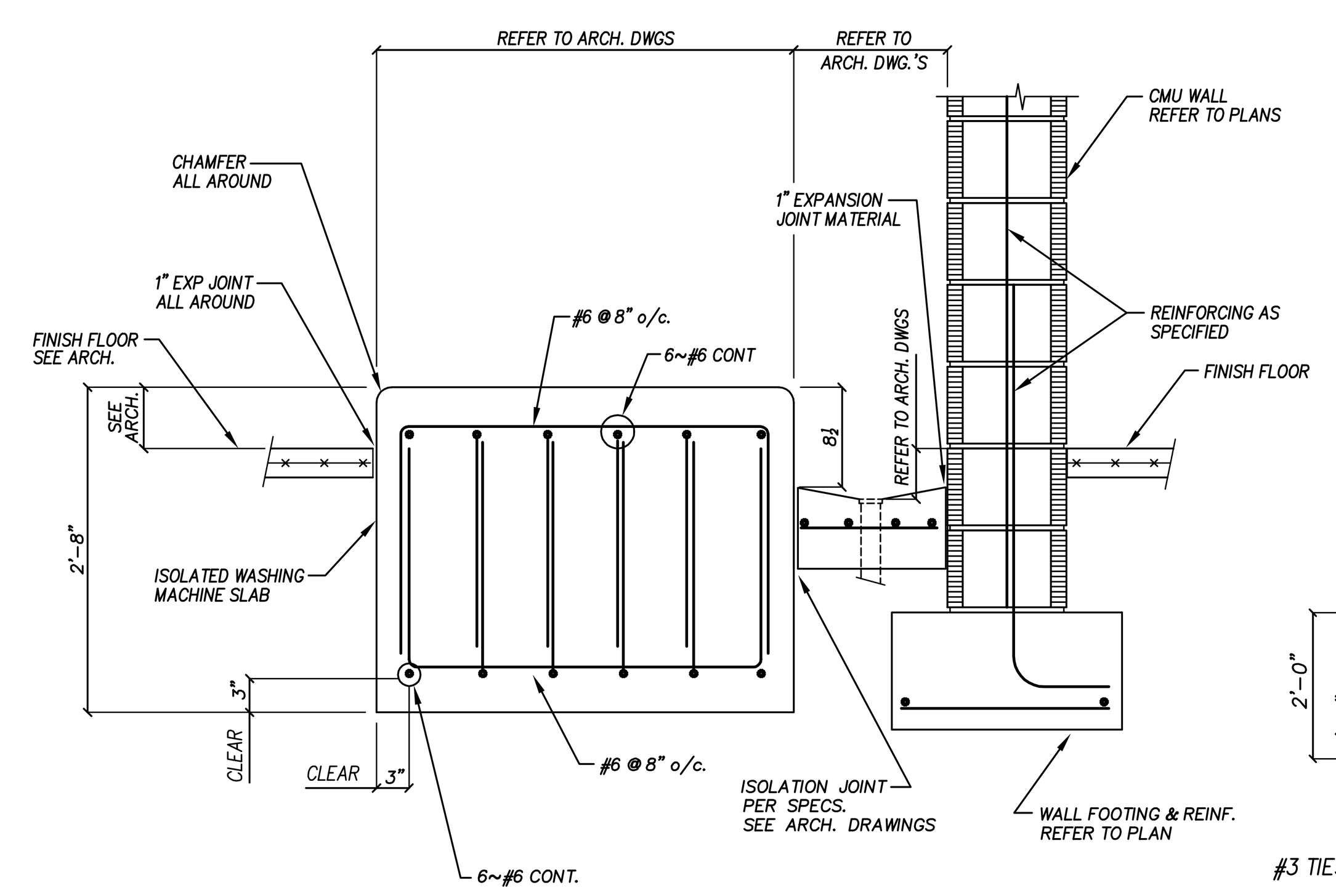
NO SCALE

1.) DOWELS OCCUR AT 24" o/c, AT ALL CORNERS AND AT OPENINGS. GROUT ALL FILLED CELLS SOLID.
2.) ALL CMU CELLS BELOW FINISHED FLOOR SHALL BE FILLED WITH CONCRETE.

14 NOT USED

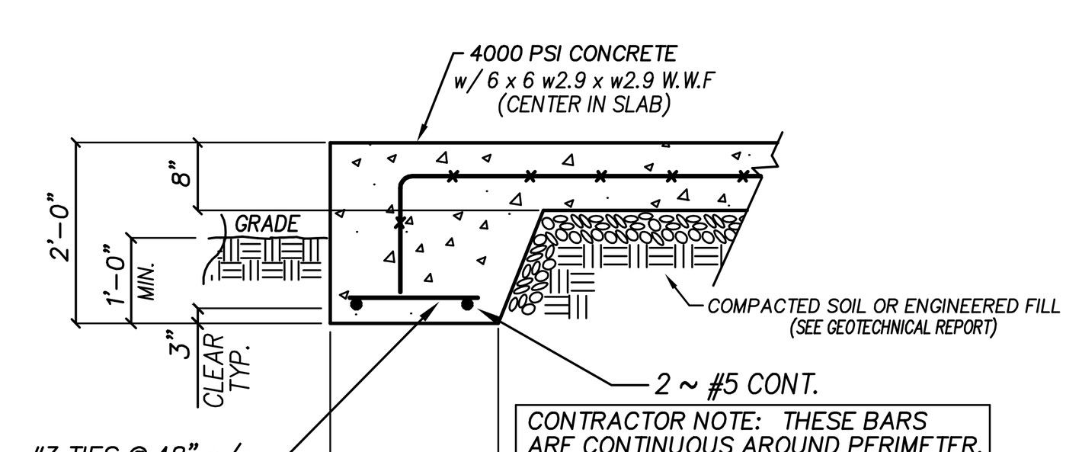
19 NOT USED

COLUMN SPREAD FOOTING SCHEDULE 2000 PSF		
MARK	SIZE	REINFORCING & NOTES
A	4'–0 x 4'–0 x 12"	6 ~ #4 EA. WA. (BOTTOM ONLY)
B	5'–6 x 5'–6 x 12"	5 ~ #5 EA. WA. (BOTTOM ONLY)
C	6'–0 x 6'–0 x 12"	6 ~ #5 EA. WA. (BOTTOM ONLY)
D	7'–0 x 7'–0 x 13"	7 ~ #5 EA. WA. (BOTTOM ONLY)
E	8'–0 x 8'–0 x 14"	8 ~ #5 EA. WA. (BOTTOM ONLY)
F	9'–0 x 9'–0 x 16"	11 ~ #5 EA. WA. (BOTTOM ONLY)
G	10'–0 x 10'–0 x 17"	12 ~ #5 EA. WA. (BOTTOM ONLY)



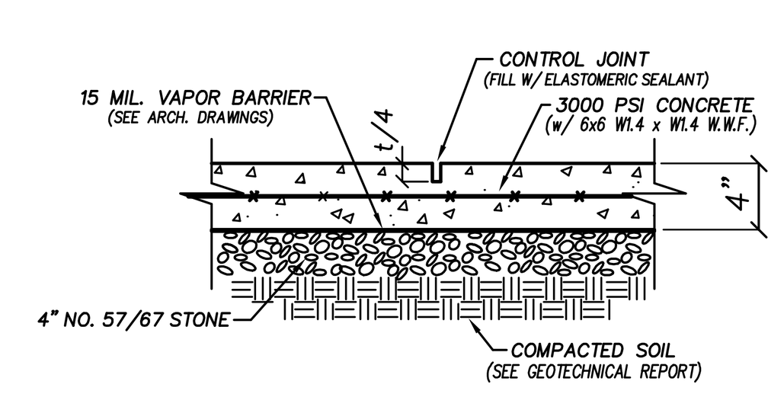
20 TYPICAL SECTION AT LAUNDRY WASHER FOUNDATION AT DRAIN

NO SCALE



21 EXTERIOR FIRE TANK PAD DETAIL

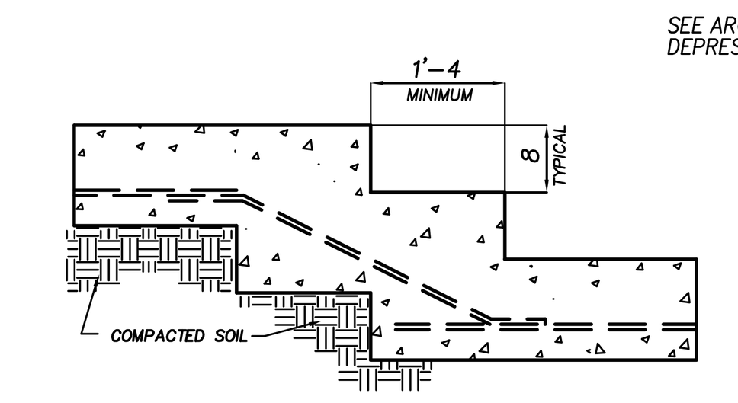
NO SCALE



TYPICAL SLAB CONTROL JOINT

NO SCALE

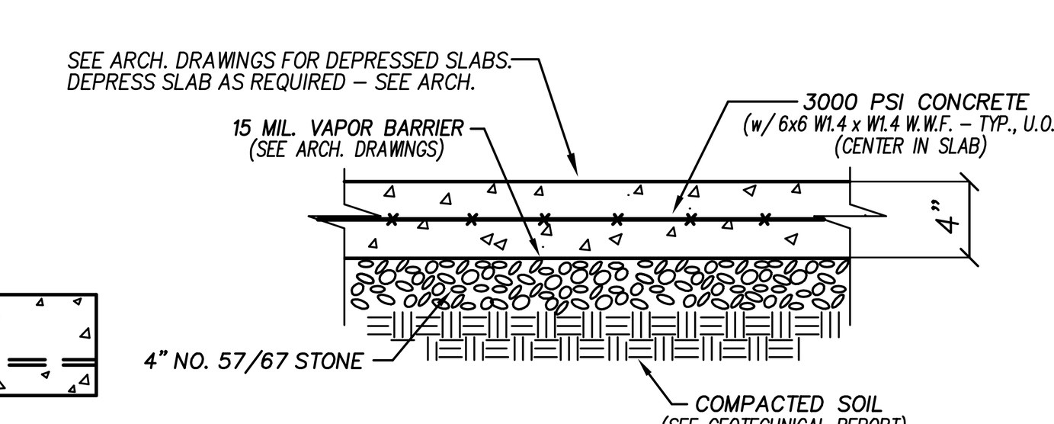
SHOWN THUS ON PLAN.... C.J.



TYPICAL STEPPED FOOTING DETAIL

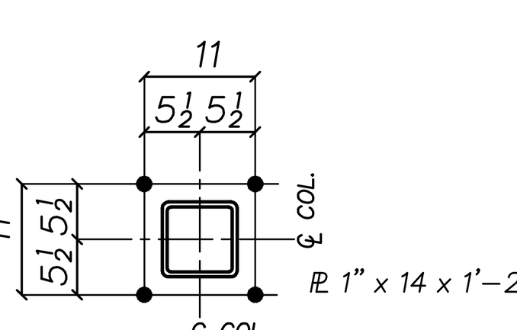
NO SCALE

IF REQUIRED TO MEET EARTH COVER REQUIREMENTS



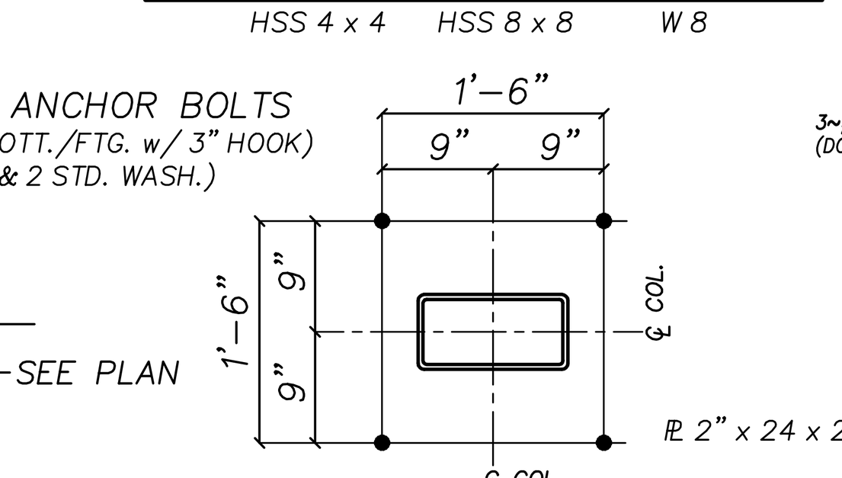
TYPICAL SLAB DETAIL

NO SCALE



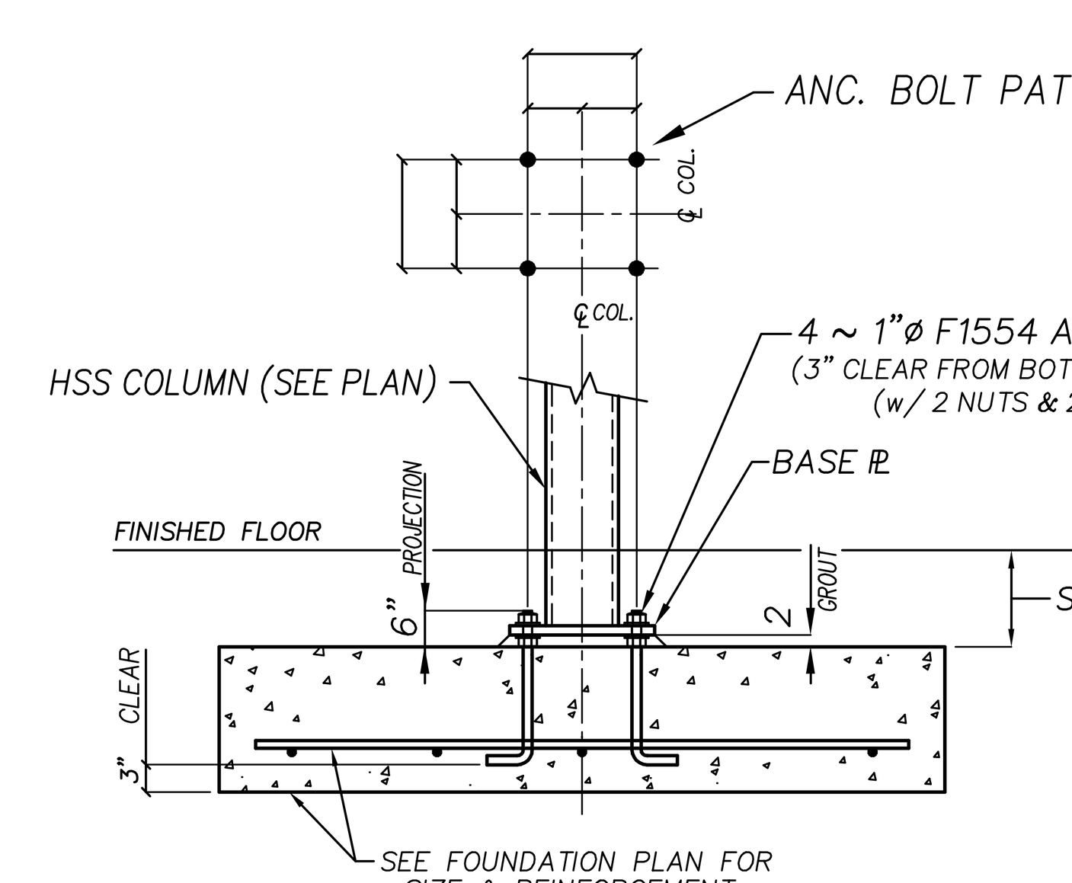
ANCHOR BOLT SETTING ~ BP8

HSS 4 x 4 HSS 8 x 8 W8



ANCHOR BOLT SETTING ~ BP128

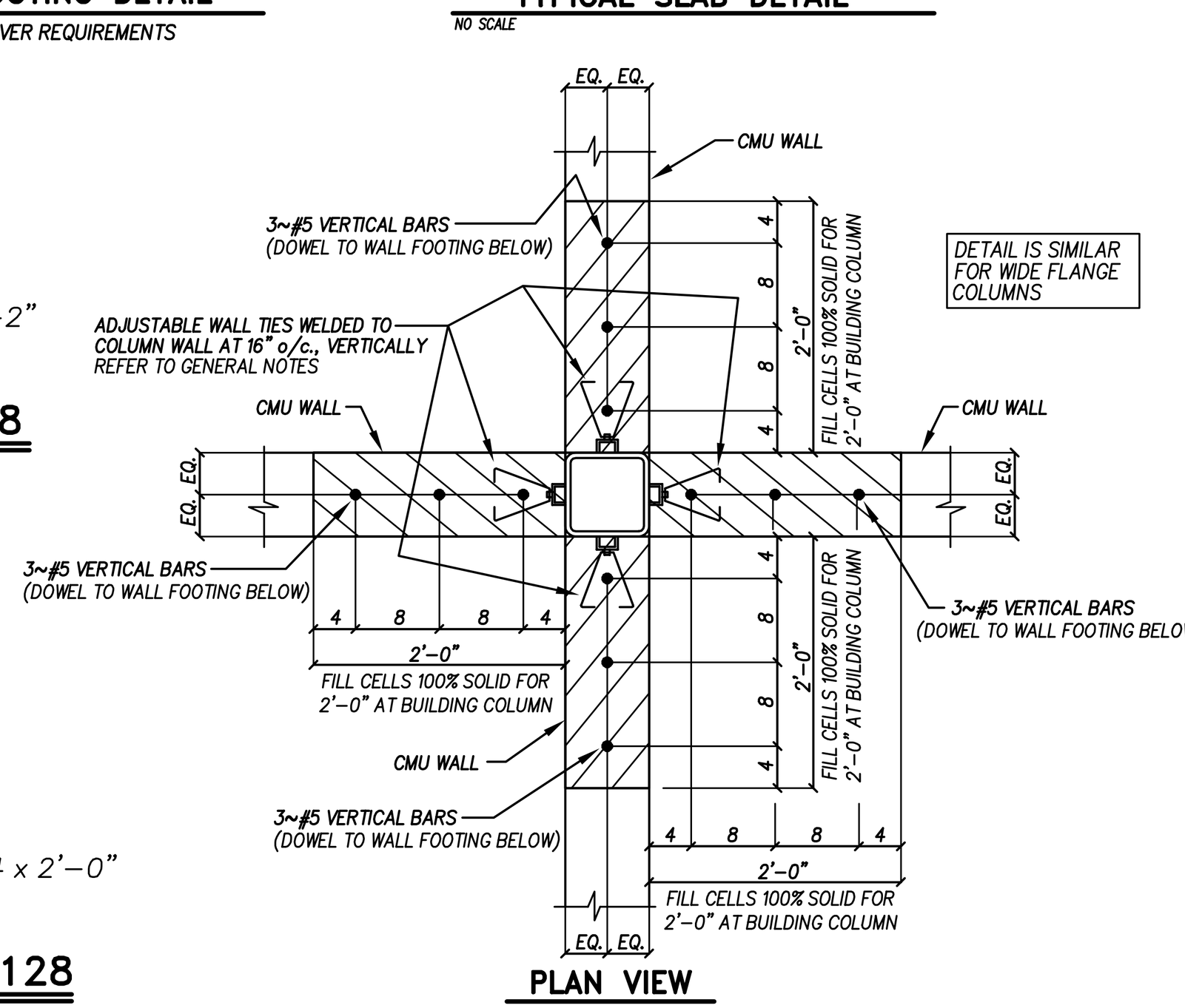
HSS 12 x 8
(OFFSET AS REQ'D. AT EXISTING WALL)



TYPICAL HSS COLUMN FOOTING DETAIL

NO SCALE

& TYPICAL ANCHOR BOLT PATTERN AS NOTED



PLAN VIEW

TYPICAL BUILDING COLUMN TO CMU WALL INTERFACE

NO SCALE

1.) THIS DETAIL SHALL APPLY AT ALL LOCATIONS WHERE A BUILDING COLUMN DIRECTLY ABUTS A CMU WALL.
2.) WALL REINFORCING IS IN ADDITION TO REINFORCING AS SHOWN ON PLANS AND OTHER DETAILS THAT APPLY.

No. Date: Revision

Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

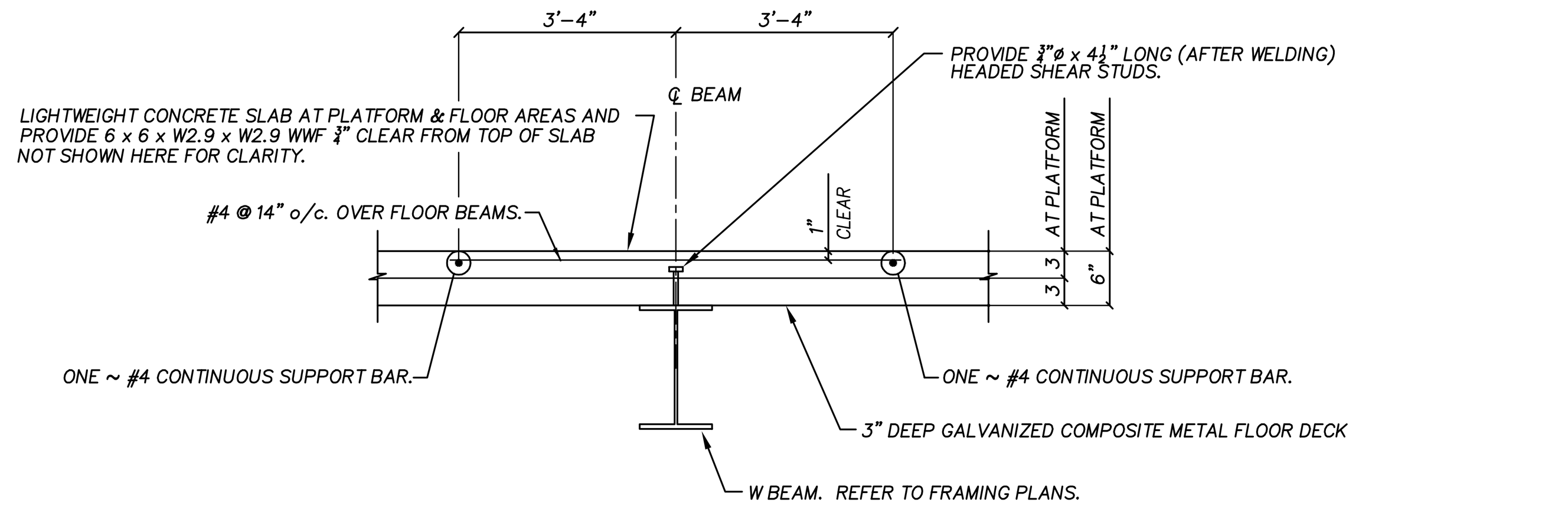
QUEEN ENGINEERING & DESIGN
NC LIC C-1050
BRUCE L. QUEEN
SEAL 18991
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

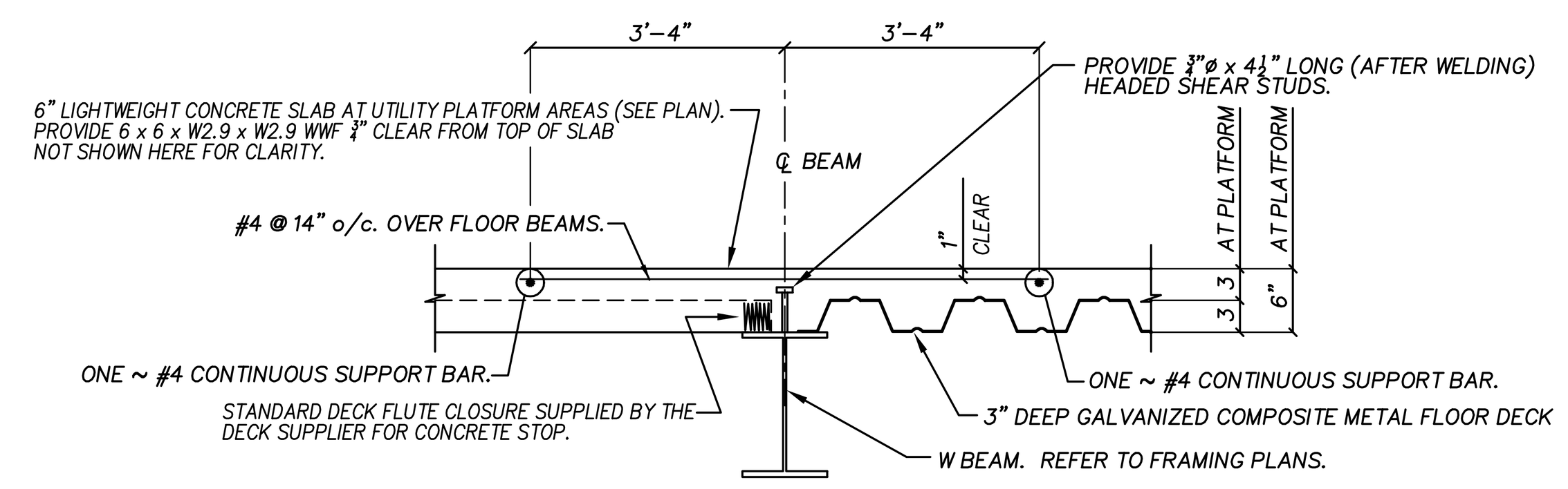
Project No. 22303

Date: 22 AUG 2024

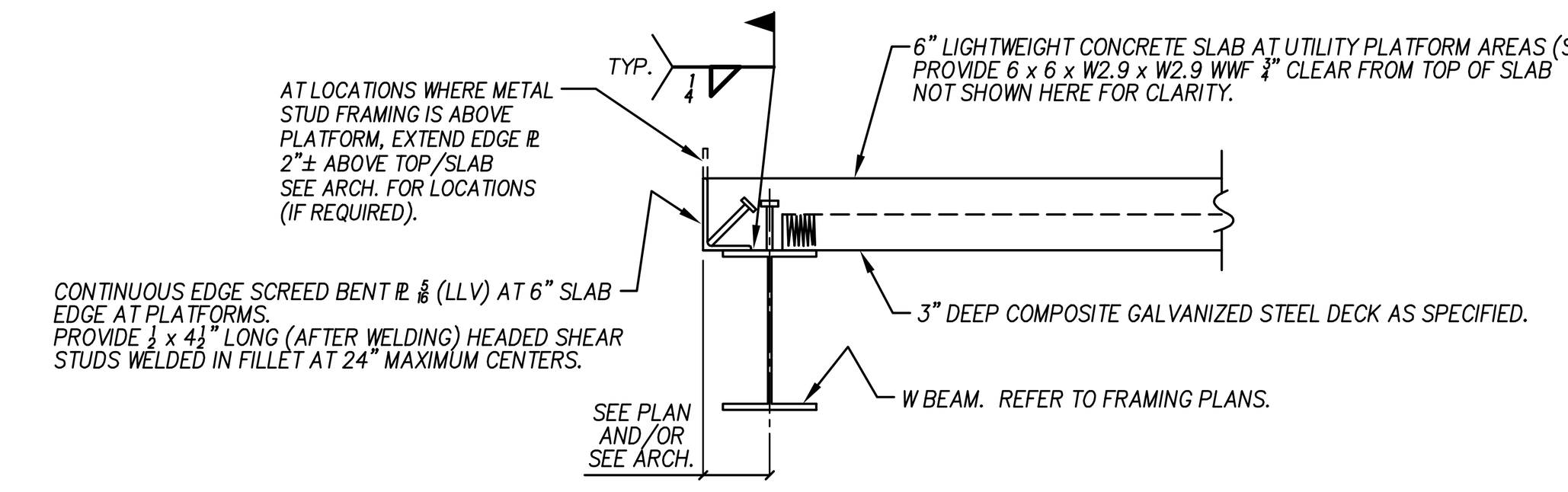
Drawing no. S 1101



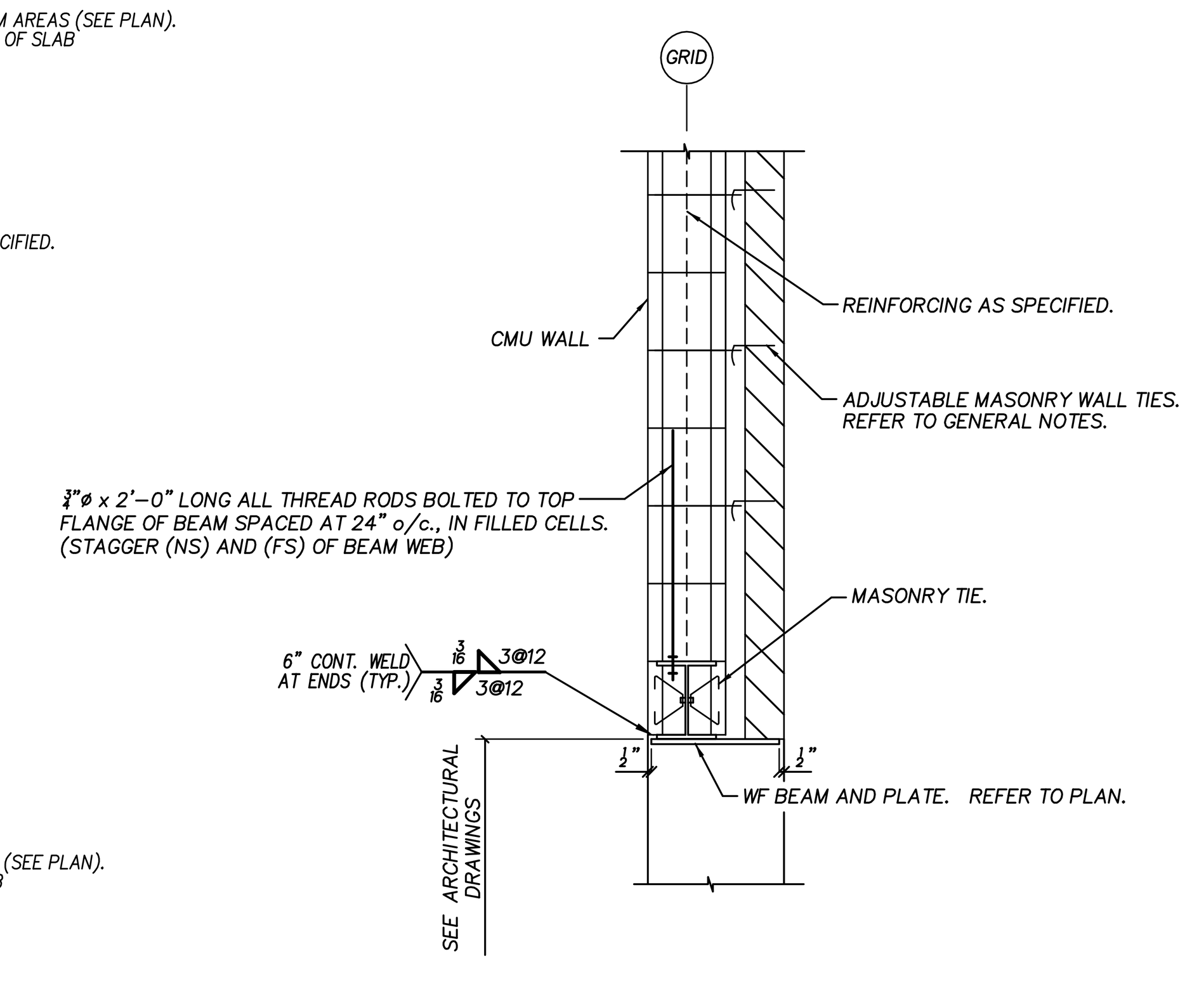
1 TYPICAL PLATFORM SUPPORT BEAM
NO SCALE



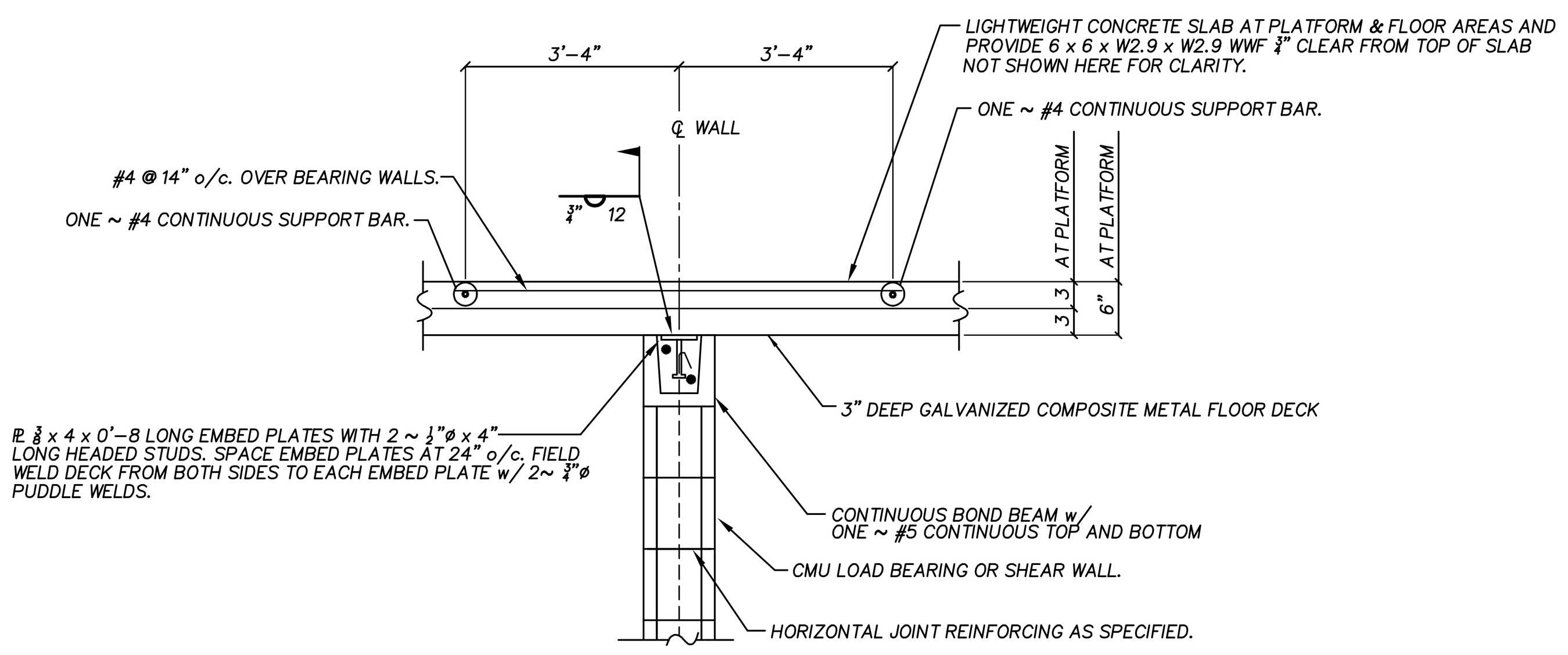
AT DECK CHANGE OF DIRECTION



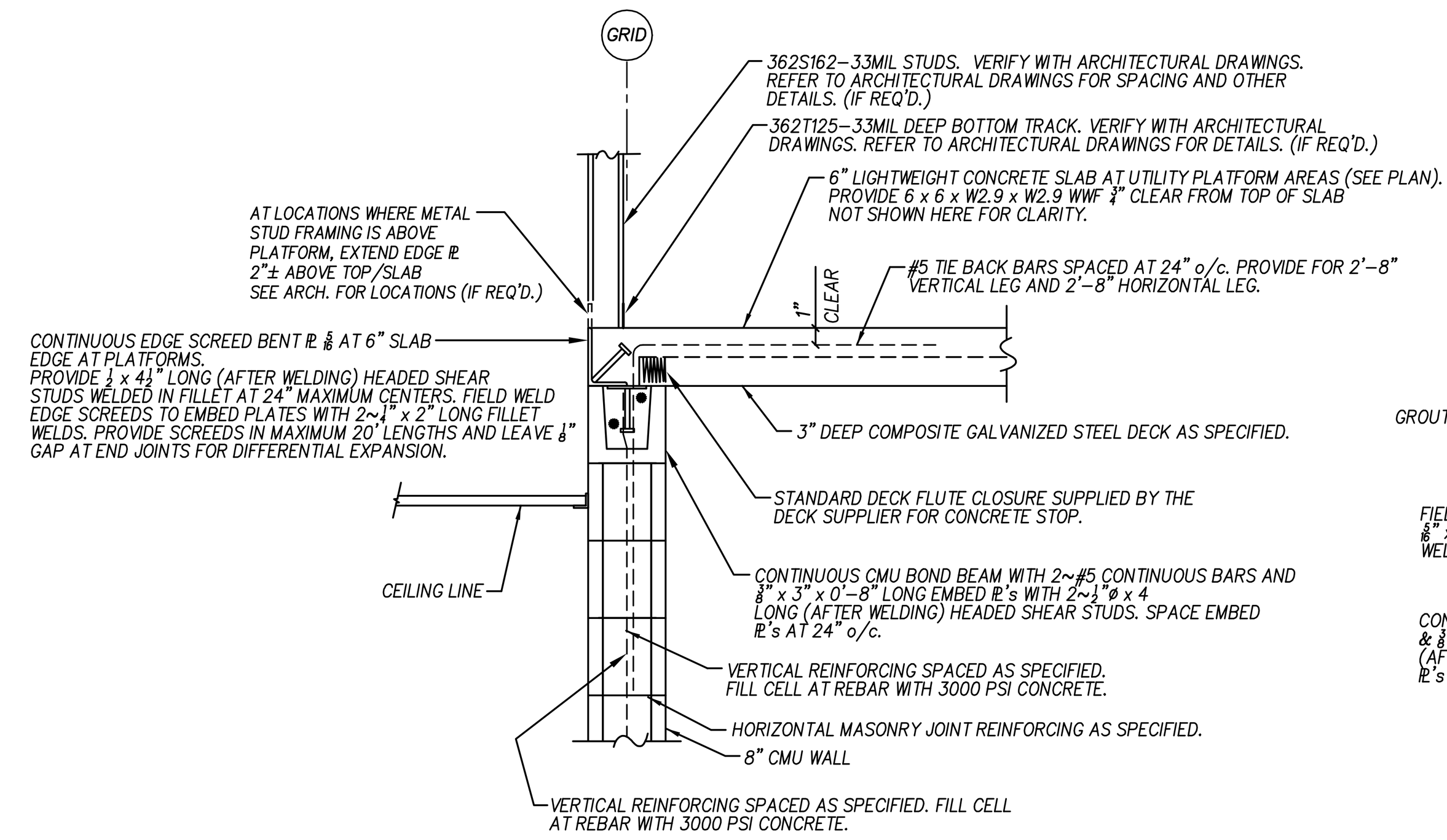
SLAB EDGE AT BEAM FLANGE



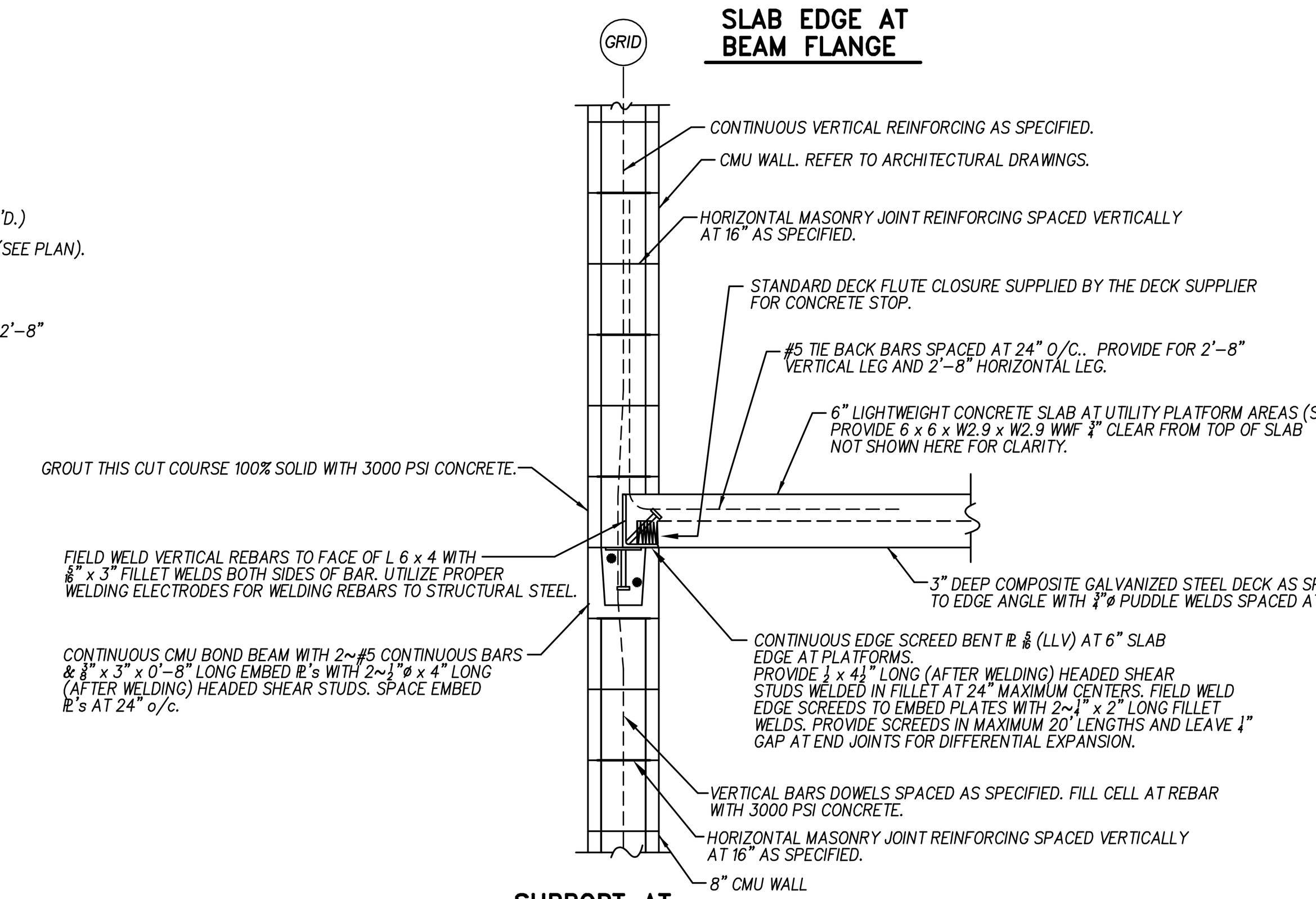
4 TYPICAL WF LINTEL BEAM AT CMU AND BRICK
NO SCALE



3 TYPICAL CMU LOAD BEARING WALL DETAIL AT ELEVATED SLAB
NO SCALE



SLAB EDGE CONCEALED ABOVE CEILING

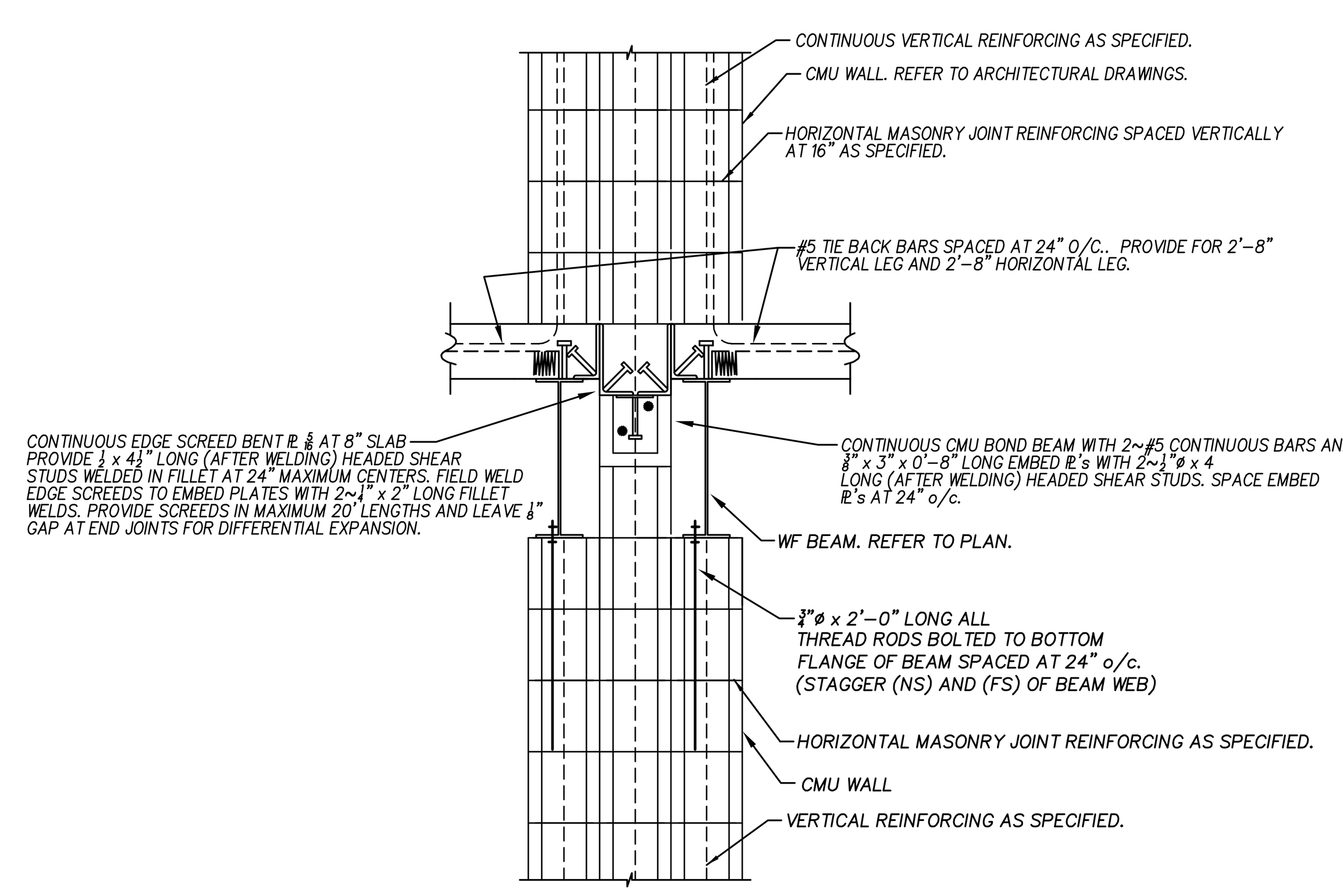


SUPPORT AT EXPOSED WALL LOCATIONS

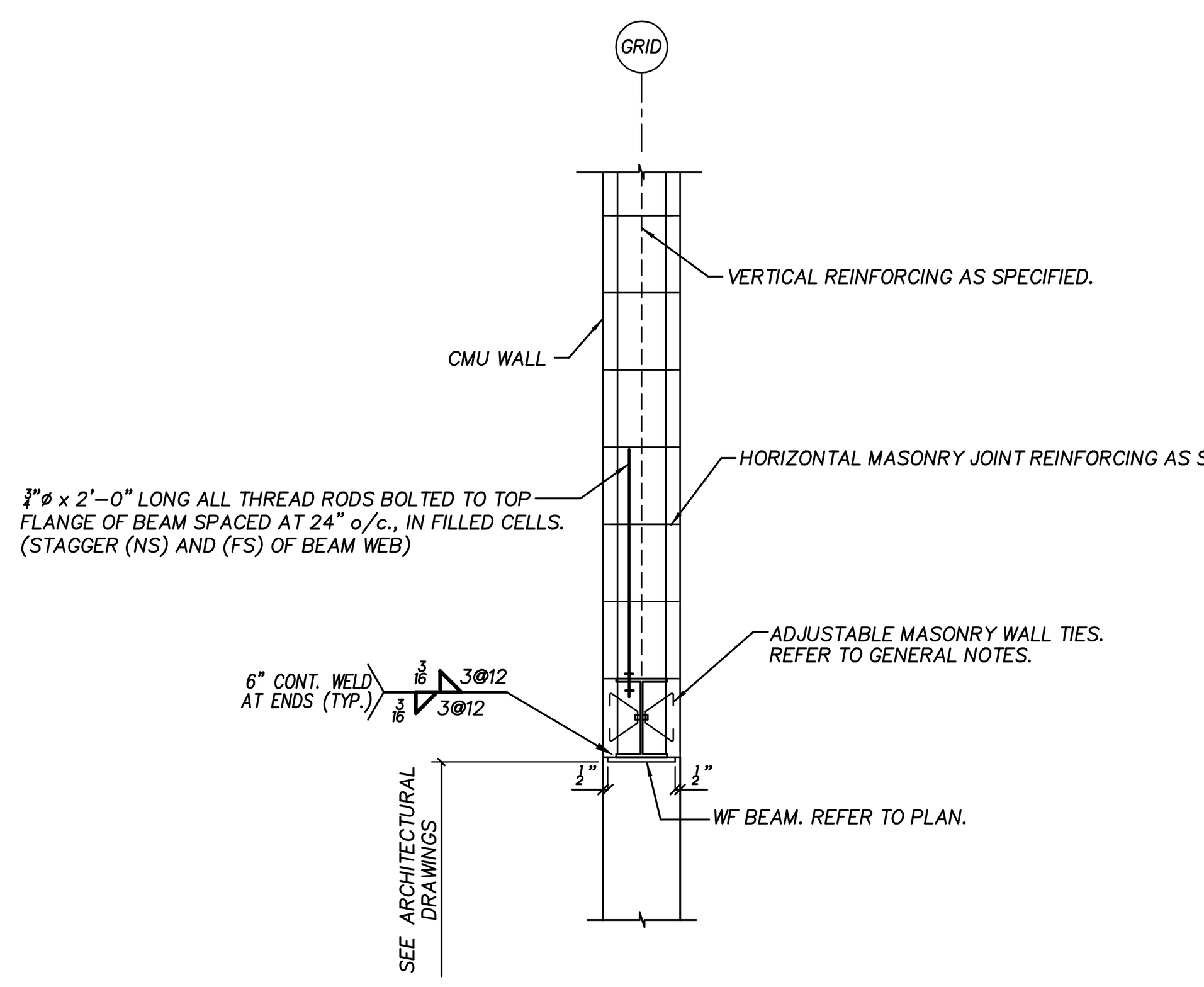
2 TYPICAL ELEVATED SLAB EDGE DETAILS
NO SCALE

NOTE: ALL METAL STUDS AND METAL SYSTEM TO BE MANUFACTURED BY DIETRICH INDUSTRIES OR APPROVED EQUAL	
CONNECTION SCHEDULE (IF REQUIRED) #10 TEK SCREWS (U.N.O)	
CONNECTION TYPE	**COMMENTS**
BOTTOM TRACK TO FLOOR	2 ~ POWDER DRIVEN FASTENERS @ 24" o/c
STUD TO BOTTOM TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
STUD TO TOP TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
TOP TRACK TO BEAM/GIRDER/JOIST	2 ~ POWDER DRIVEN FASTENERS @ 24" o/c
PLYWOOD TO STUDS	SCREW @ 6" o/c ALONG EA. STUD
TOP PL TO TRACK	#10 TEK AT 12" o/c.
FC TO STUD	4~#10 TEK
FC TO SLAB	½"ø EXP. ANCH.
JOIST TO TOP TRACK (BEARING)	(2) SCREWS IN FLANGE
PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST
BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
TREAD TO VERTICAL STUD	(4) #10 TEK SCREWS IN WEB
WOOD SHEATHING	8d, 12" o/c AT SUPPORTS, 6" o/c. AT EDGES
HEADER TO HEADER	#10 TEK AT 12" o/c. STAGGERED (WEB TO WEB)
HEADER TO CRIPPLE	SA 18 GA. w/ 4~#8 TEK PER LEG
CRIPPLE TO LOWER TRACK	2~#8 TEK EA. FL.
HEADER TO BEARING STUD	SA 18 GA. w/ 4~#8 TEK PER LEG
BEARING STUD TO CRC BRACE	BRIDGE CLIP
BEARING STUD TO BRIDGE CLIP	4~#10 TEK
BRIDGE CLIP TO CRC	4~#10 TEK
STUD TO WALL	2 SCREWS IN EA. WEB @ 16" o/c
JOIST TO JOIST INTERFACE	ONE SCREW IN EA. FLANGE
PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST
BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
DOUBLE OR SINGLE 2x PLATE TO MASONRY	¼" POWDER ACTUATED FASTENER OR MASONRY SCREW AT 12" o/c., TYPICAL

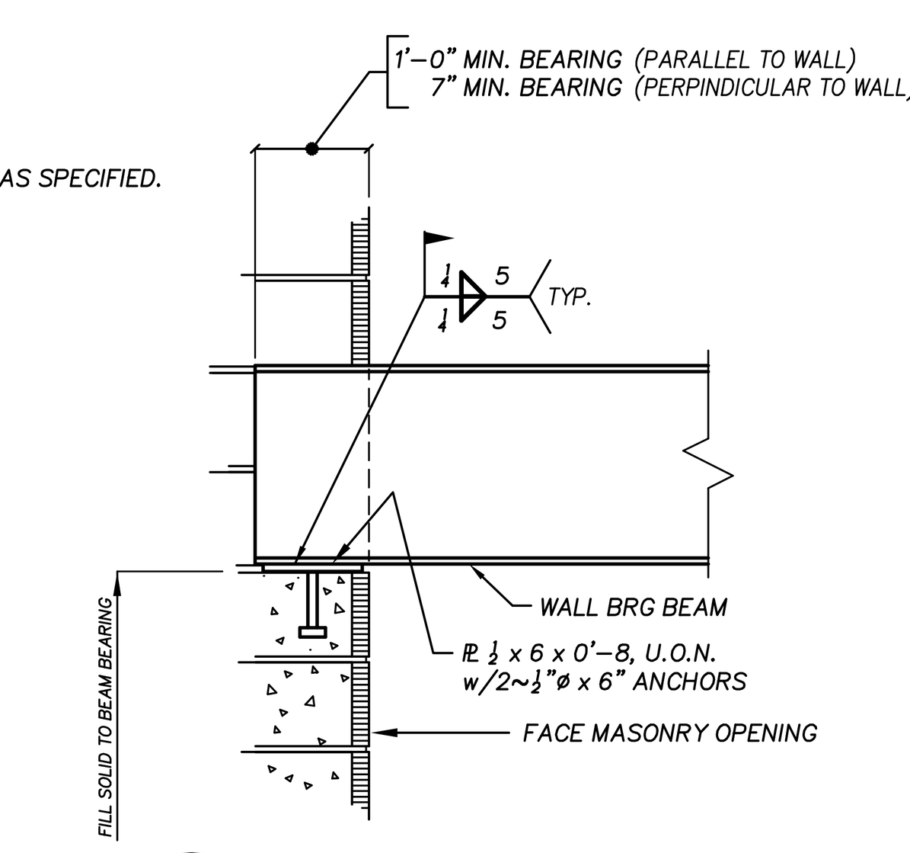
CONNECTIONS AT STUDS
CONNECTIONS AT JOISTS



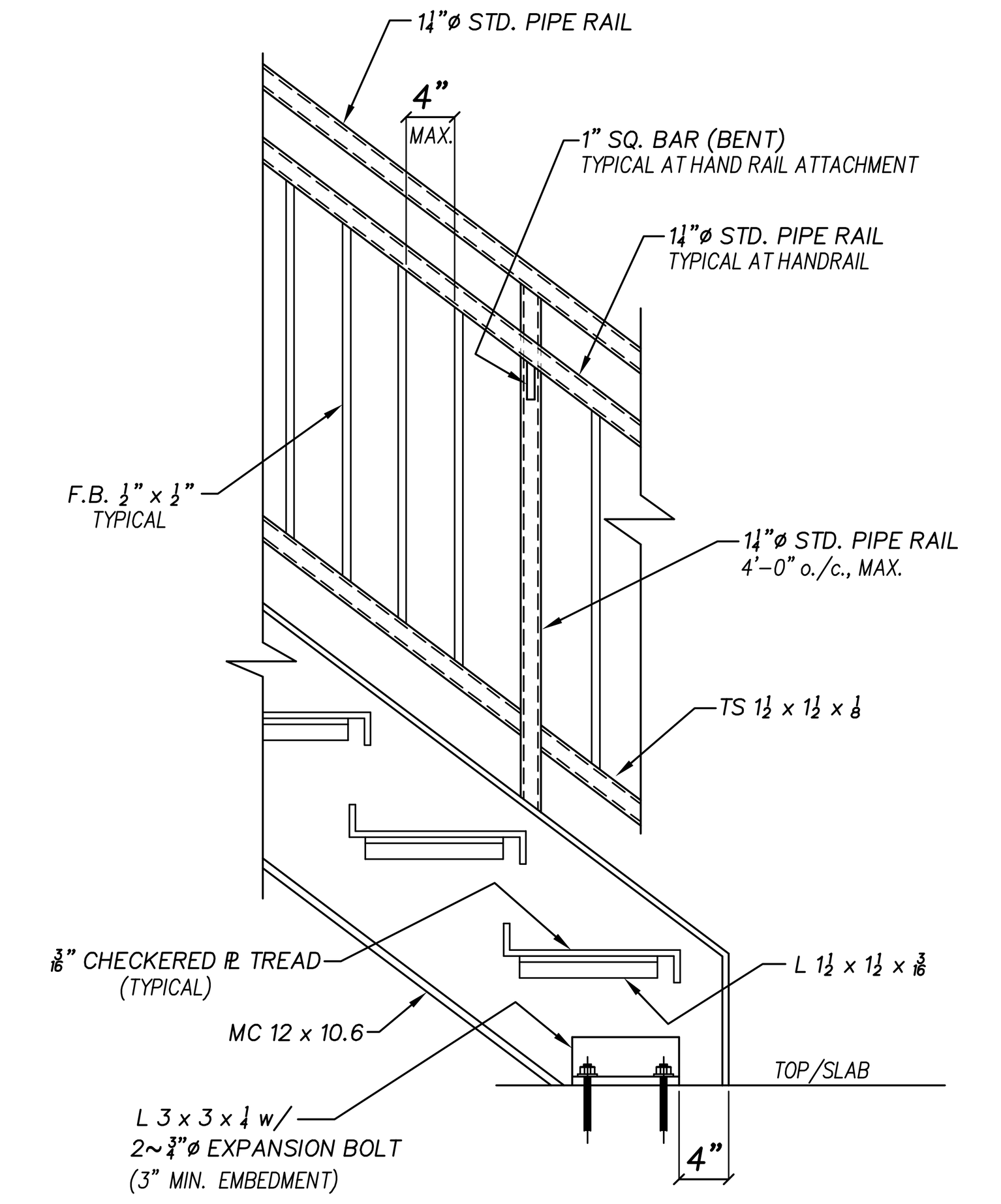
8 PLATFORM AT FIRE-RATED WALL
NO SCALE
– SEE 2/S1102 FOR ADDITIONAL NOTES THAT APPLY.



5 TYPICAL WF BEAM AT CMU WALL
NO SCALE

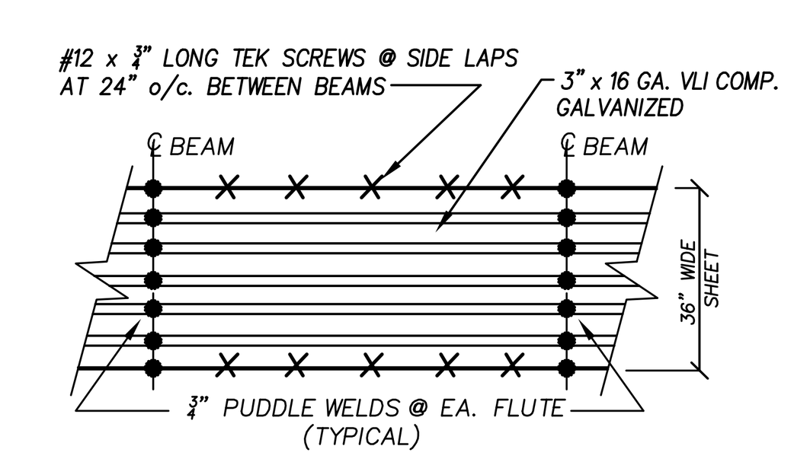


6 TYPICAL BEAM BEARING DETAIL
NO SCALE

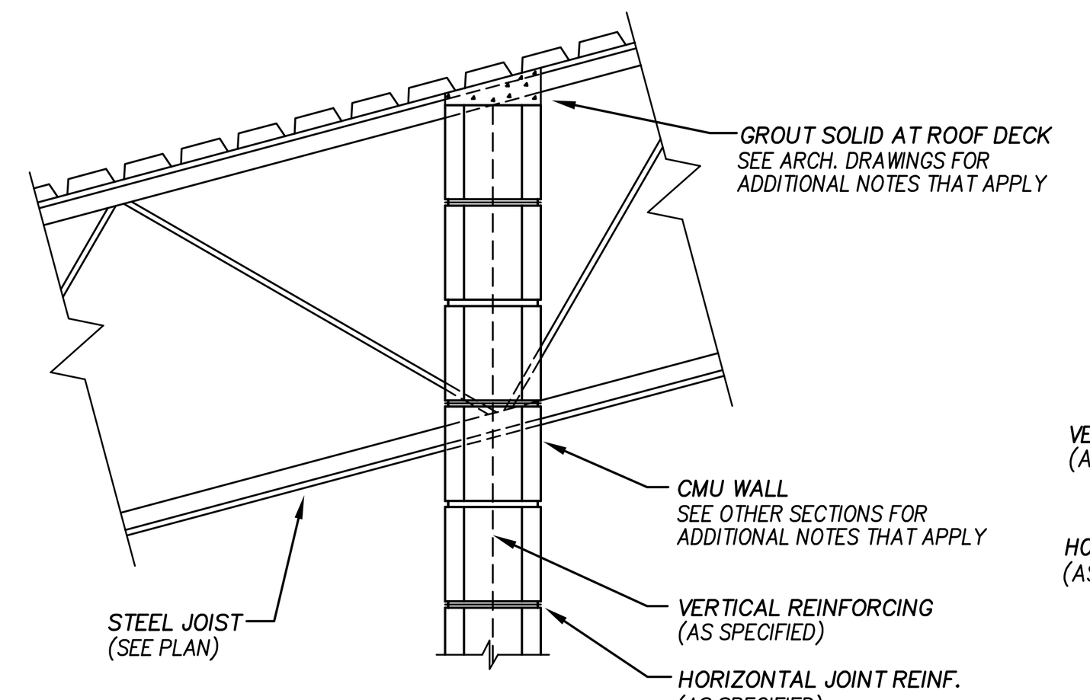


7 TYPICAL STAIR CONSTRUCTION
NO SCALE
– SEE ARCHITECTURAL DRAWINGS FOR STAIR LOCATION AND ADDITIONAL NOTES THAT APPLY.
– STAIR CONFIGURATION TO BE VERIFIED BY STAIR MANUFACTURER. ABOVE SECTION IS SCHEMATICAL IN NATURE, AND IS ONLY INCLUDED AS A GUIDELINE. STAIR MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

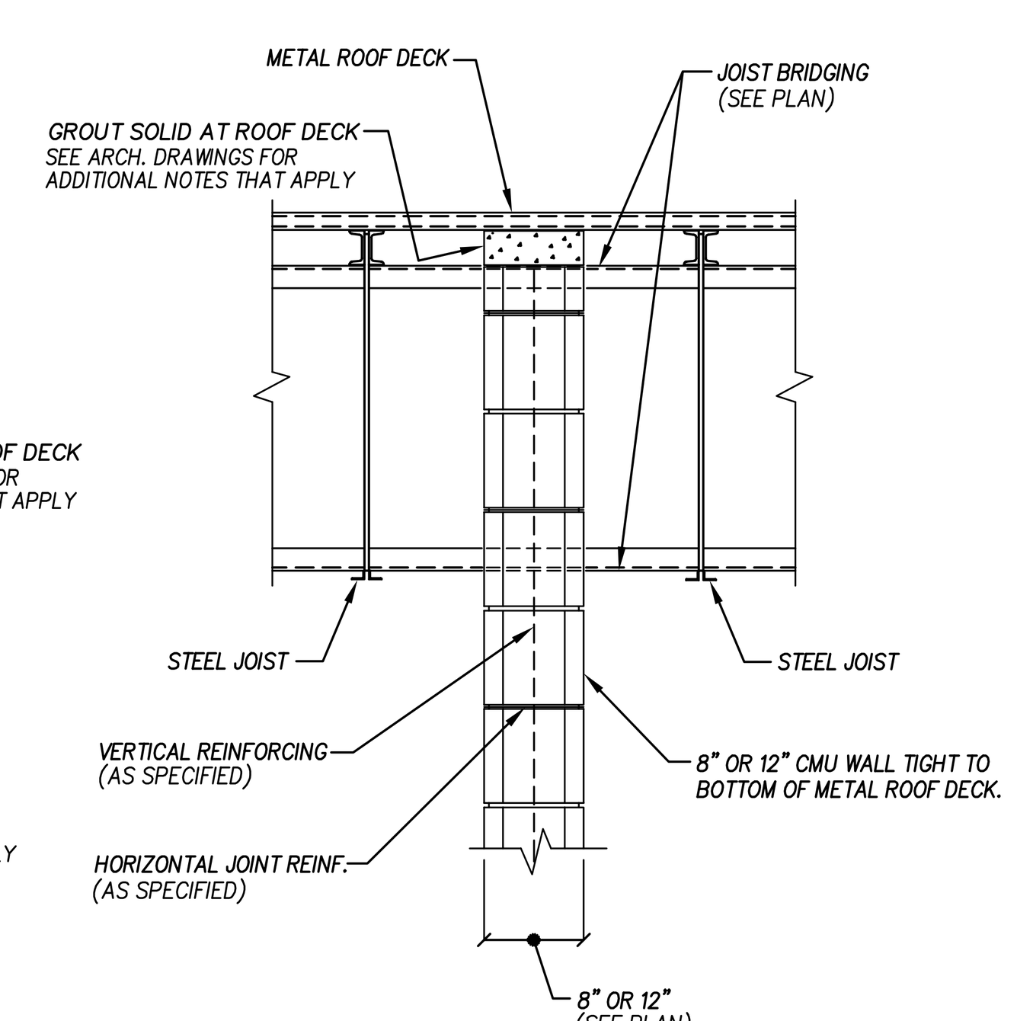
LOOSE LINTEL SCHEDULE (TYPICAL, U.O.N.)				
MARK	**SIZE**	**M.O.**	**BEARING**	**REMARKS**
L1	L 3½ x 3½ x ¼	1'–8 to 5'–0	8" @ EA. END	
L2	L 5 x 3½ x 5/16 LLV	5'–0 to 7'–0	8" @ EA. END	
L3	L 6 x 3½ x 5/16 LLV	7'–0 to 8'–0	8" @ EA. END	
L4	W 8 x 10 w/℞ 5/16	8'–0 to 10'–0	8" @ EA. END	BEAR SIM TO 6/S1102
L5	W 8 x 18 w/℞ 5/16	10'–0 to 12'–0	12" @ EA. END	BEAR SIM TO 6/S1102
L6	W 16 x 26 w/℞ 5/16	12'–0 to 20'–0	12" @ EA. END	BEAR SIM TO 6/S1102
L7	W 16 x 31 w/℞ 5/16	20'–0 >	12" @ EA. END	BEAR SIM TO 6/S1102



DECK FASTENING DETAIL 3" VLI COMPOSITE FLOOR DECK
NO SCALE



PERPINDICULAR TO JOISTS



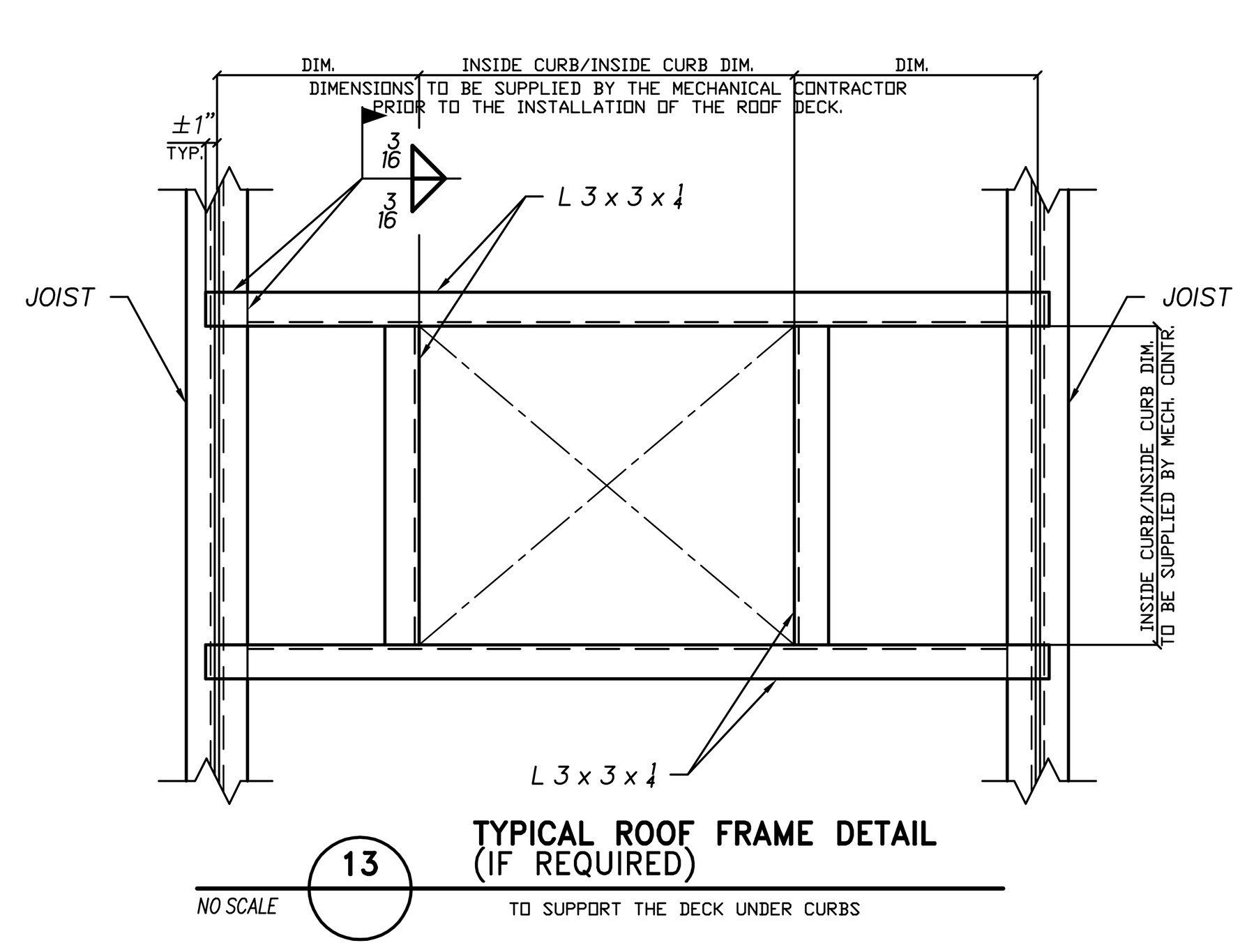
PARALLEL TO JOISTS

12 TYPICAL INTERIOR CMU WALL SEALED TO METAL ROOF DECK
NO SCALE
– SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

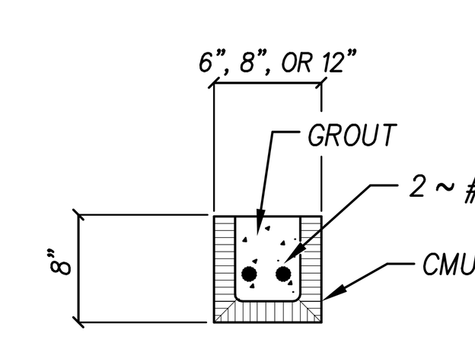
9 NOT USED

10 NOT USED

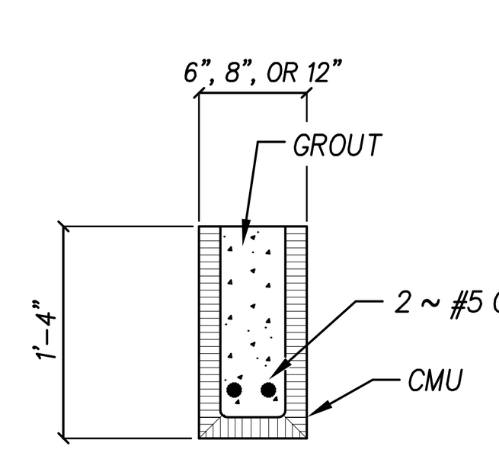
11 NOT USED



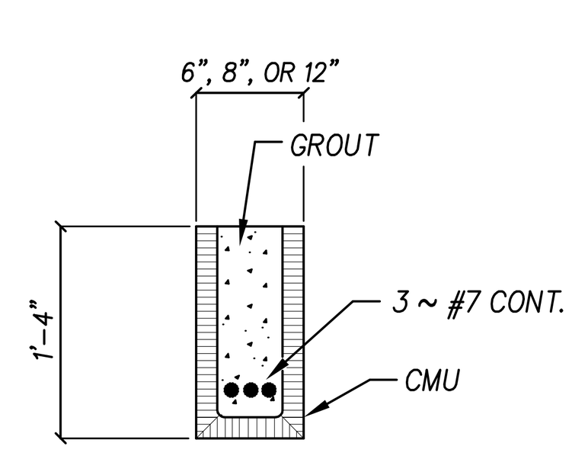
13 TYPICAL ROOF FRAME DETAIL (IF REQUIRED)
NO SCALE
TO SUPPORT THE DECK UNDER CURBS



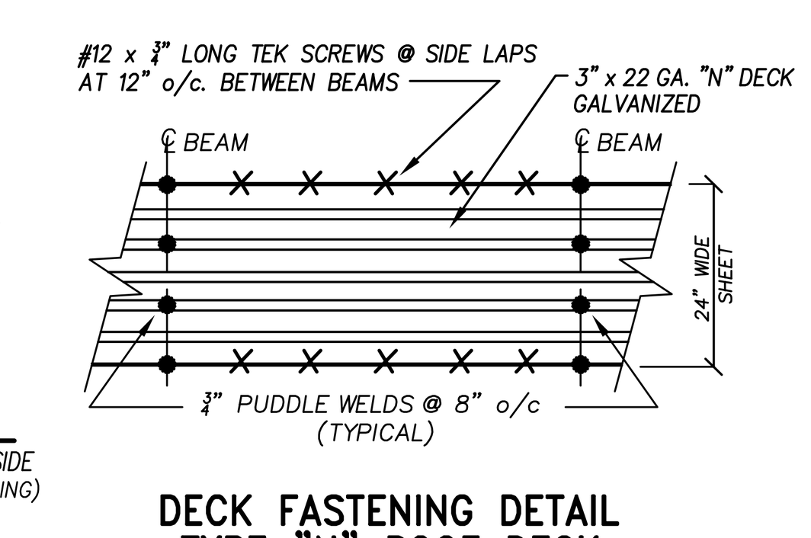
8" DEEP CMU LINTEL
NO SCALE BEAR ALL LINTEL COMPONENTS 8" EA. SIDE
SPAN = 2'–0" TO 4'–0"



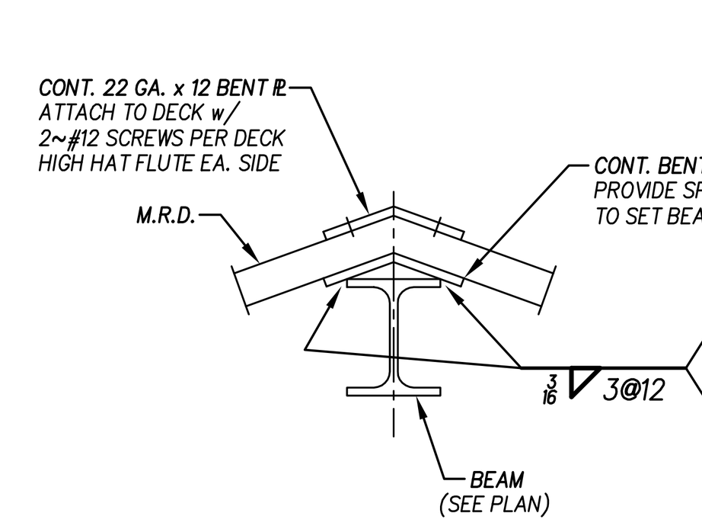
16" DEEP CMU LINTEL
NO SCALE BEAR ALL LINTEL COMPONENTS 8" EA. SIDE
SPAN = 4'–1" TO 8'–4"



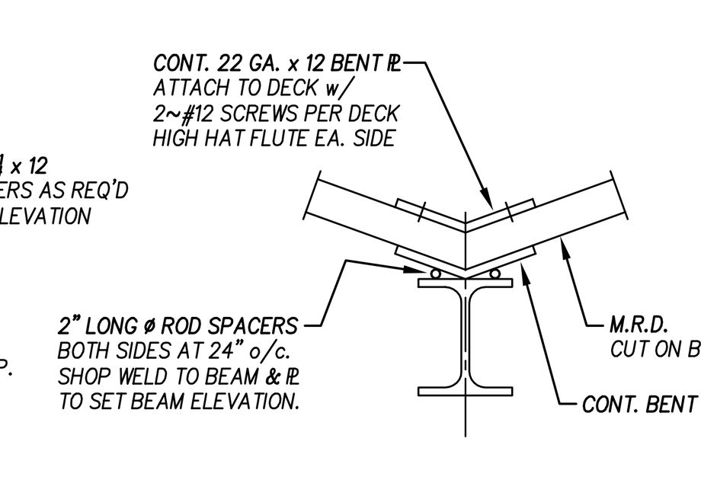
16" DEEP CMU LINTEL
NO SCALE BEAR ALL LINTEL COMPONENTS 1'–4" EA. SIDE
(FILL ALL CELLS SOLID UNDER CMU LINTEL BEARING)
SPAN = 8'–5" TO 14'–0"



DECK FASTENING DETAIL TYPE "N" ROOF DECK
NO SCALE

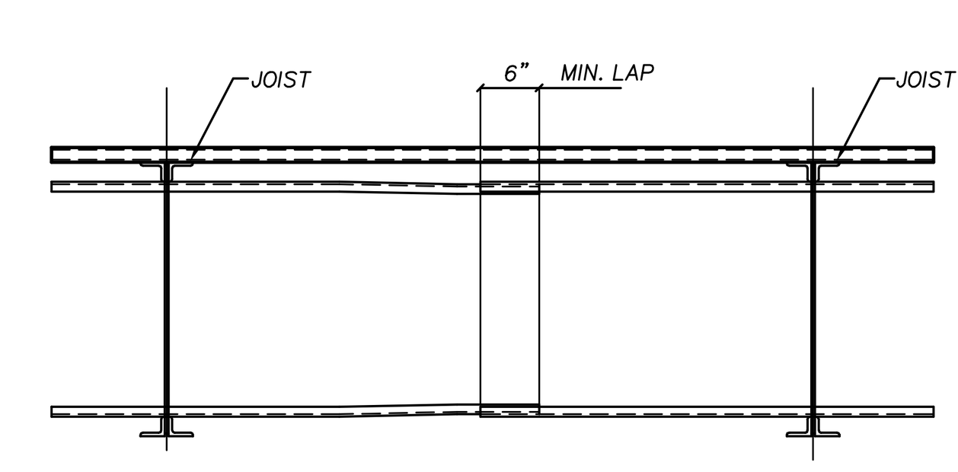


HIP AND RIDGE BEAM

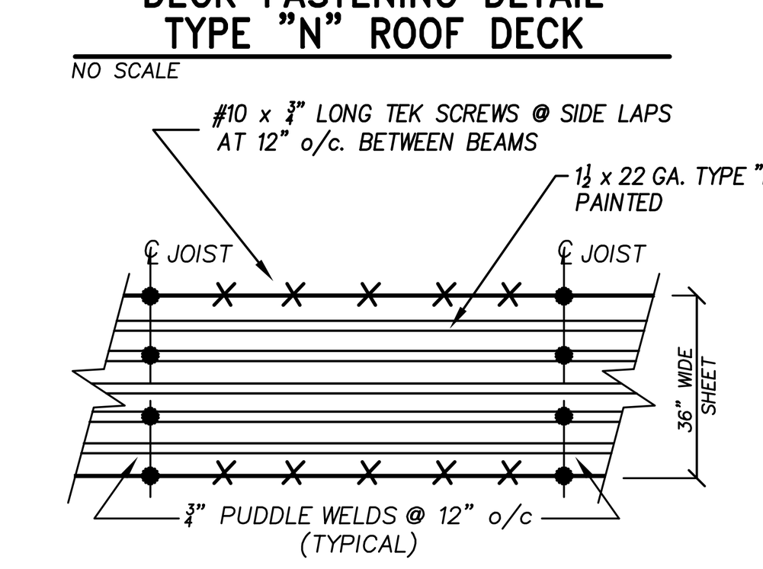


VALLEY BEAM

TYPICAL HIP AND VALLEY BEAM DETAIL



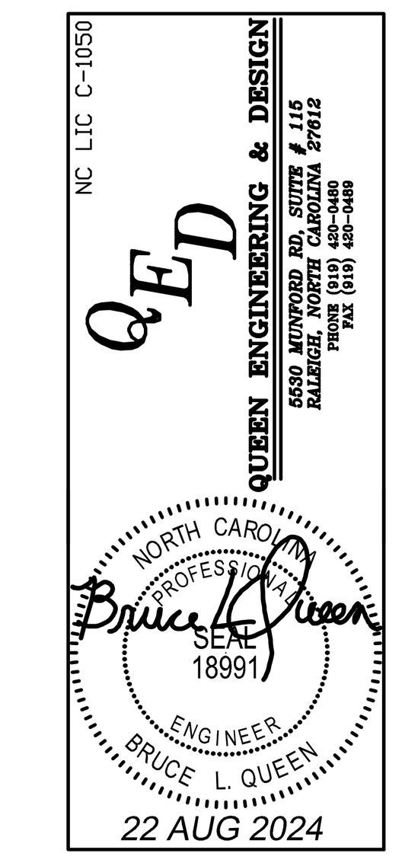
TYPICAL HORIZ. BRIDGING SPLICE DETAIL
NO SCALE
WELD AT ALL CONTACT POINTS



DECK FASTENING DETAIL TYPE "B" ROOF DECK
NO SCALE

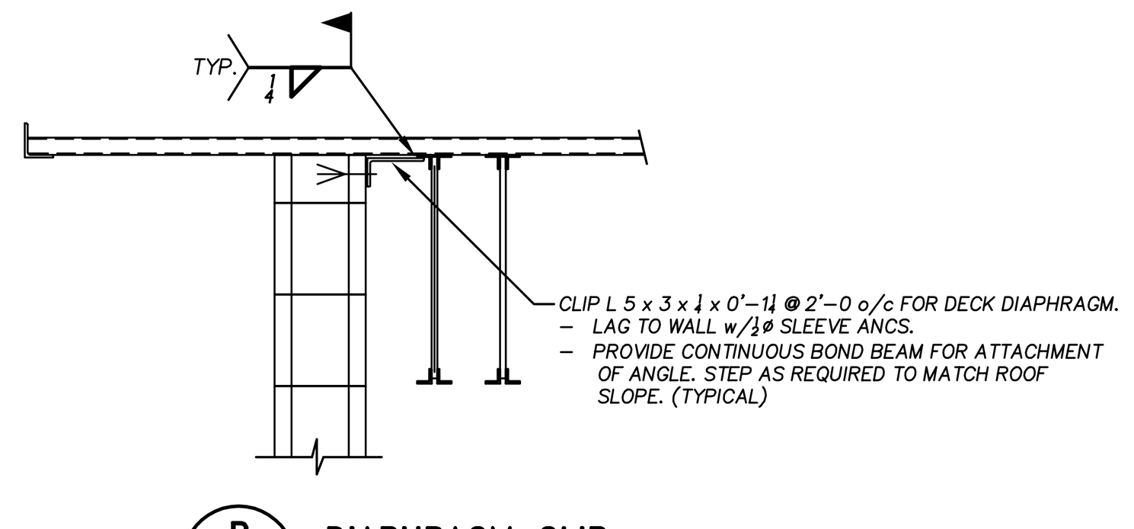
No.	Date:	Revision

Hite associates
ARCHITECTURE / ENGINEERING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27858 / tel (252) 757-0333

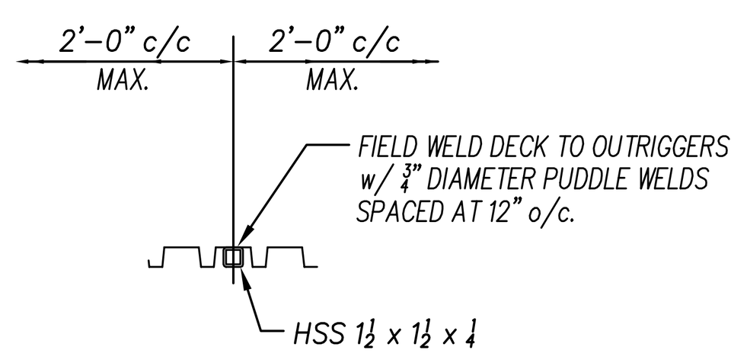


New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

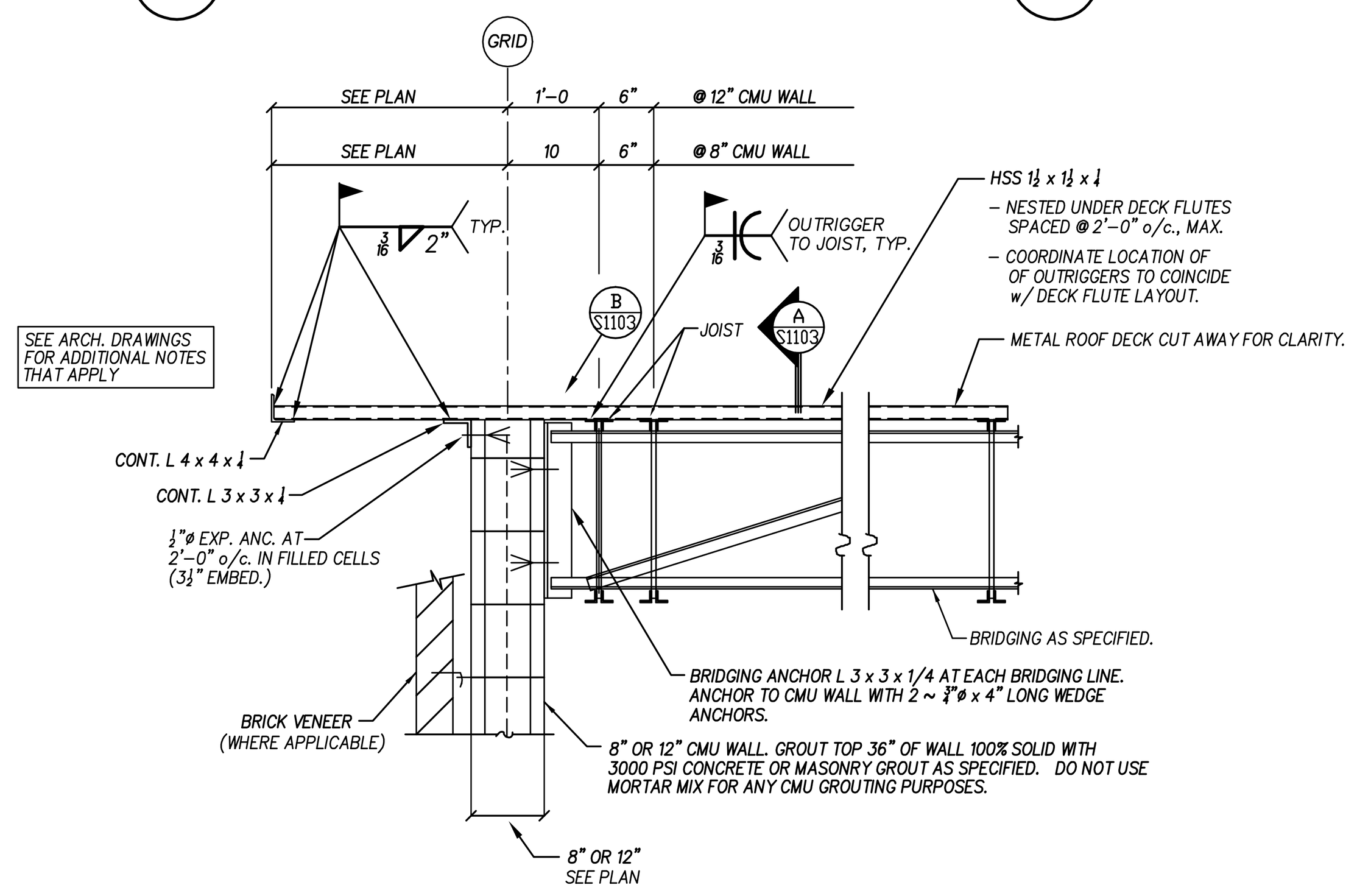
Project No. 22303
Date: 22 AUG 2024
Drawing no. S 1102



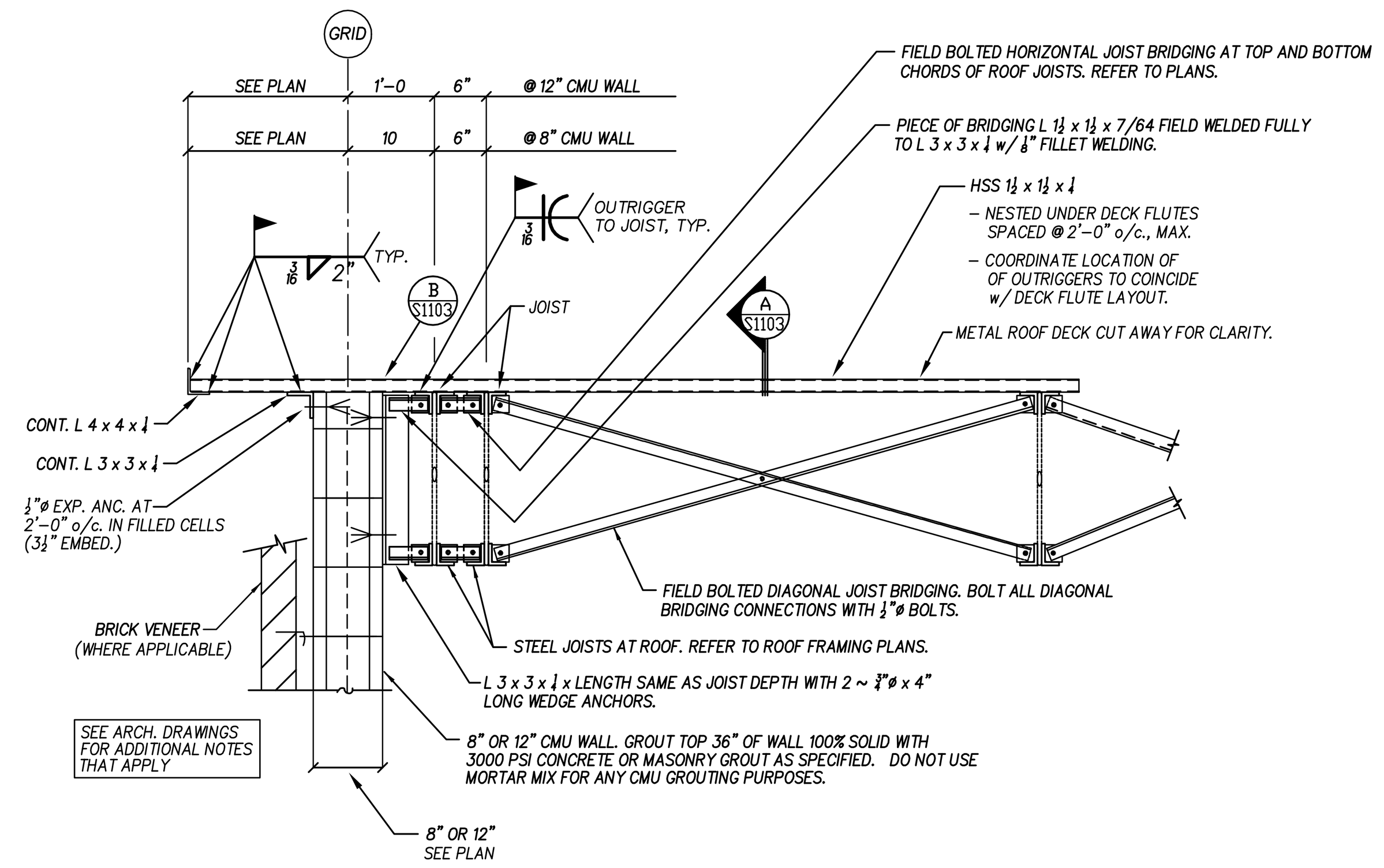
B DIAPHRAGM CLIP
NO SCALE



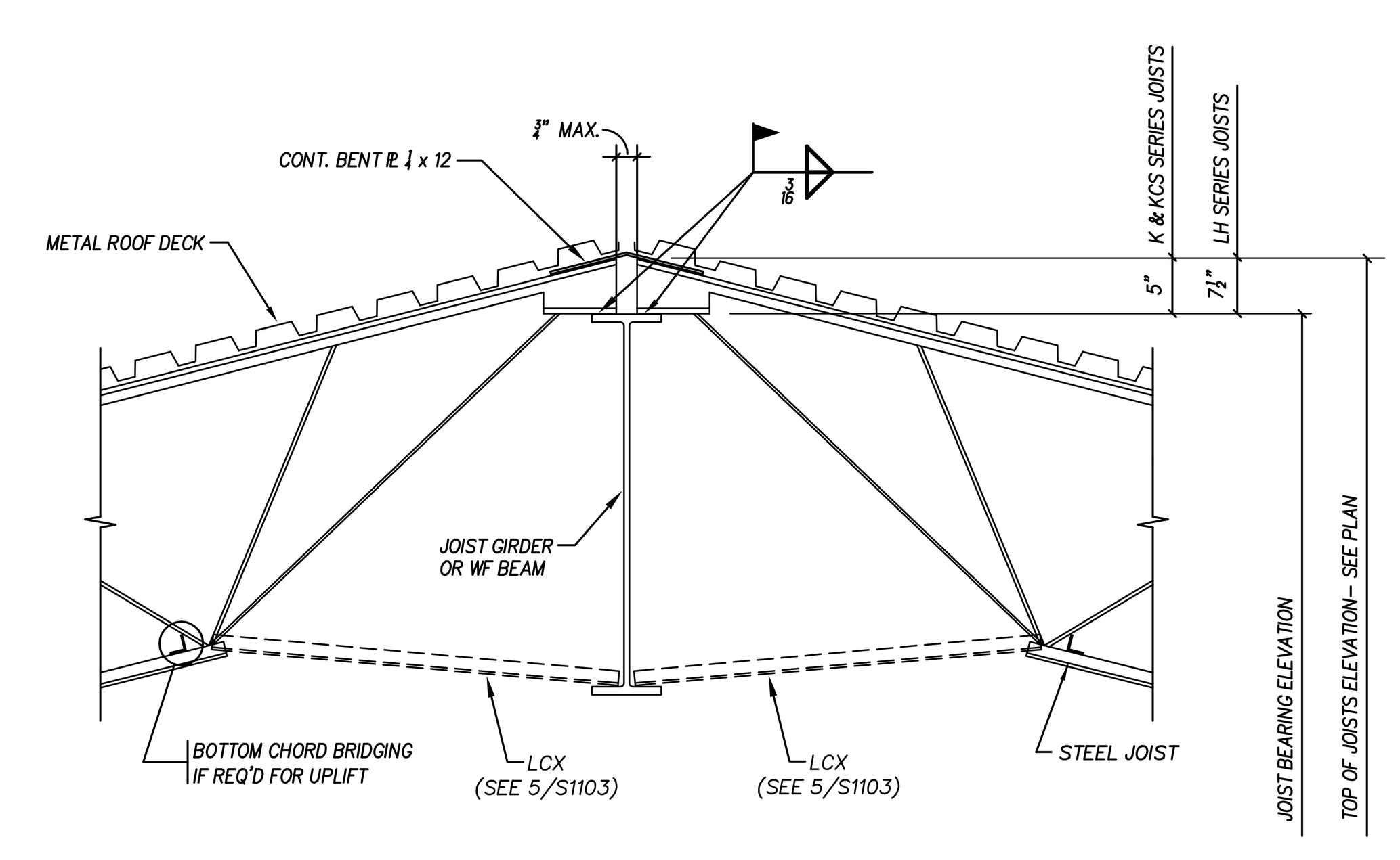
A OUTRIGGER SECTION
NO SCALE



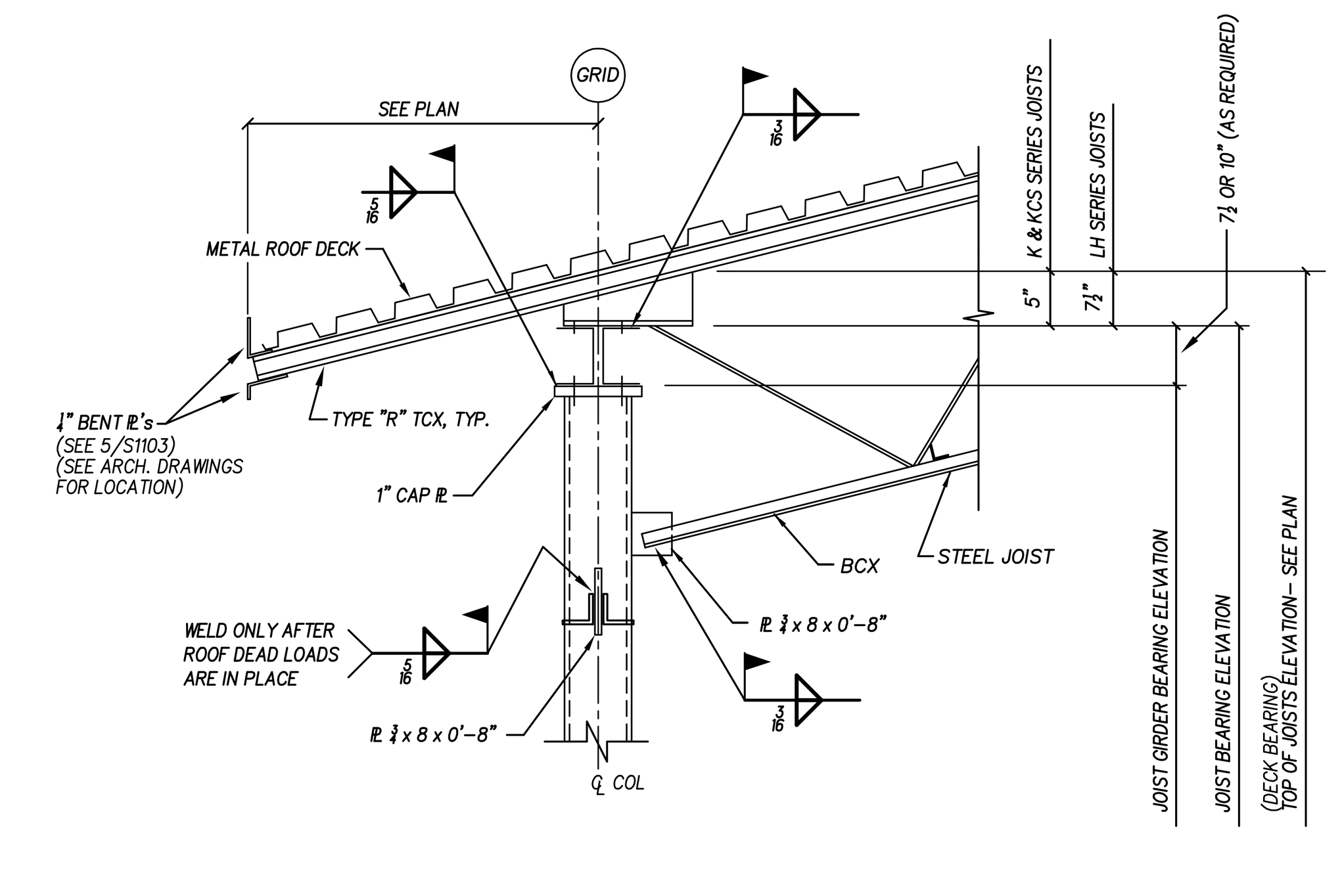
1 TYPICAL SECTION AT ENDWALL GABLE AT HORIZONTAL BRIDGING ANCHORAGE
NO SCALE



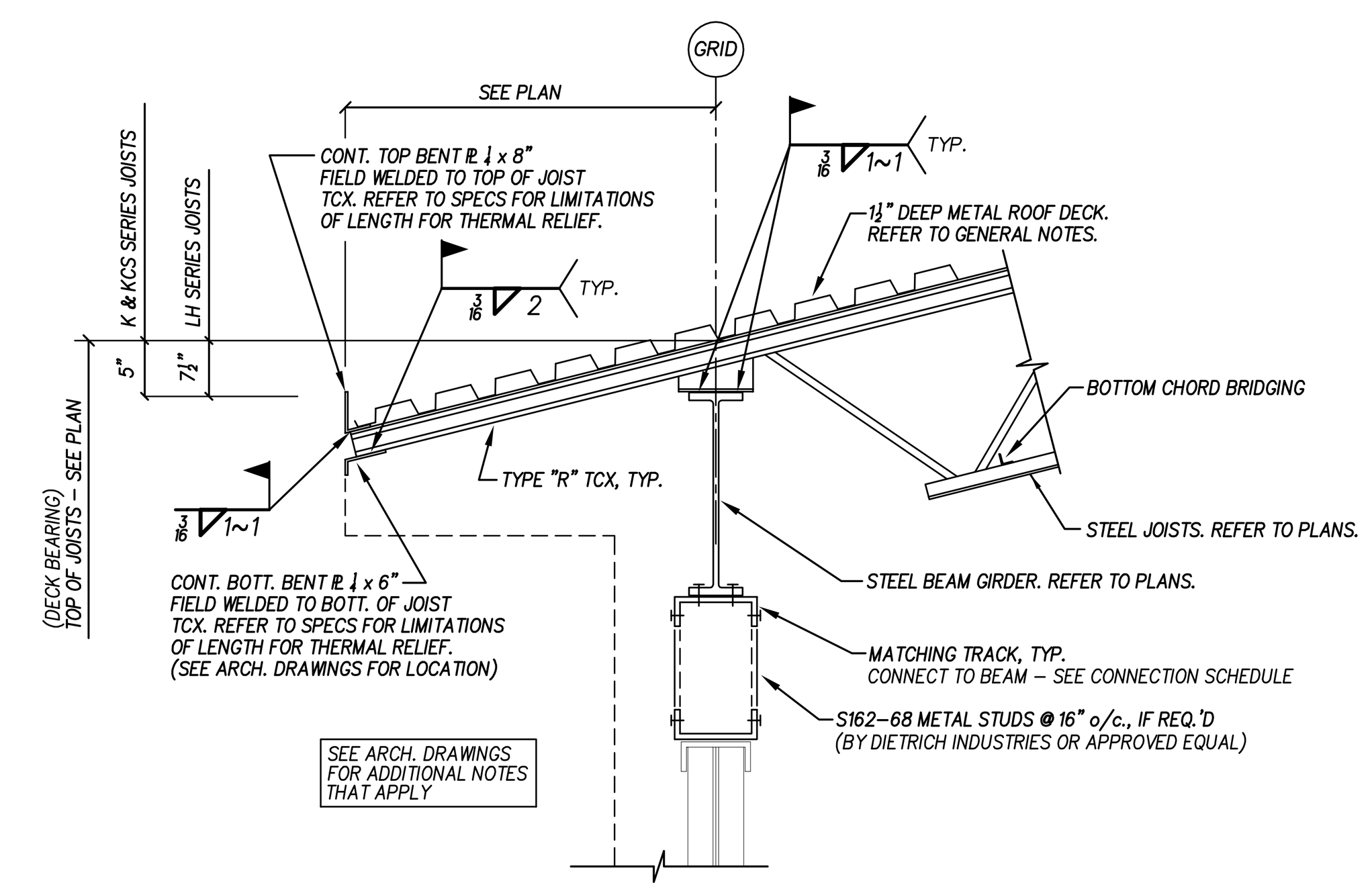
2 TYPICAL SECTION AT ENDWALL DIAGONAL BRIDGING ANCHORAGE
NO SCALE



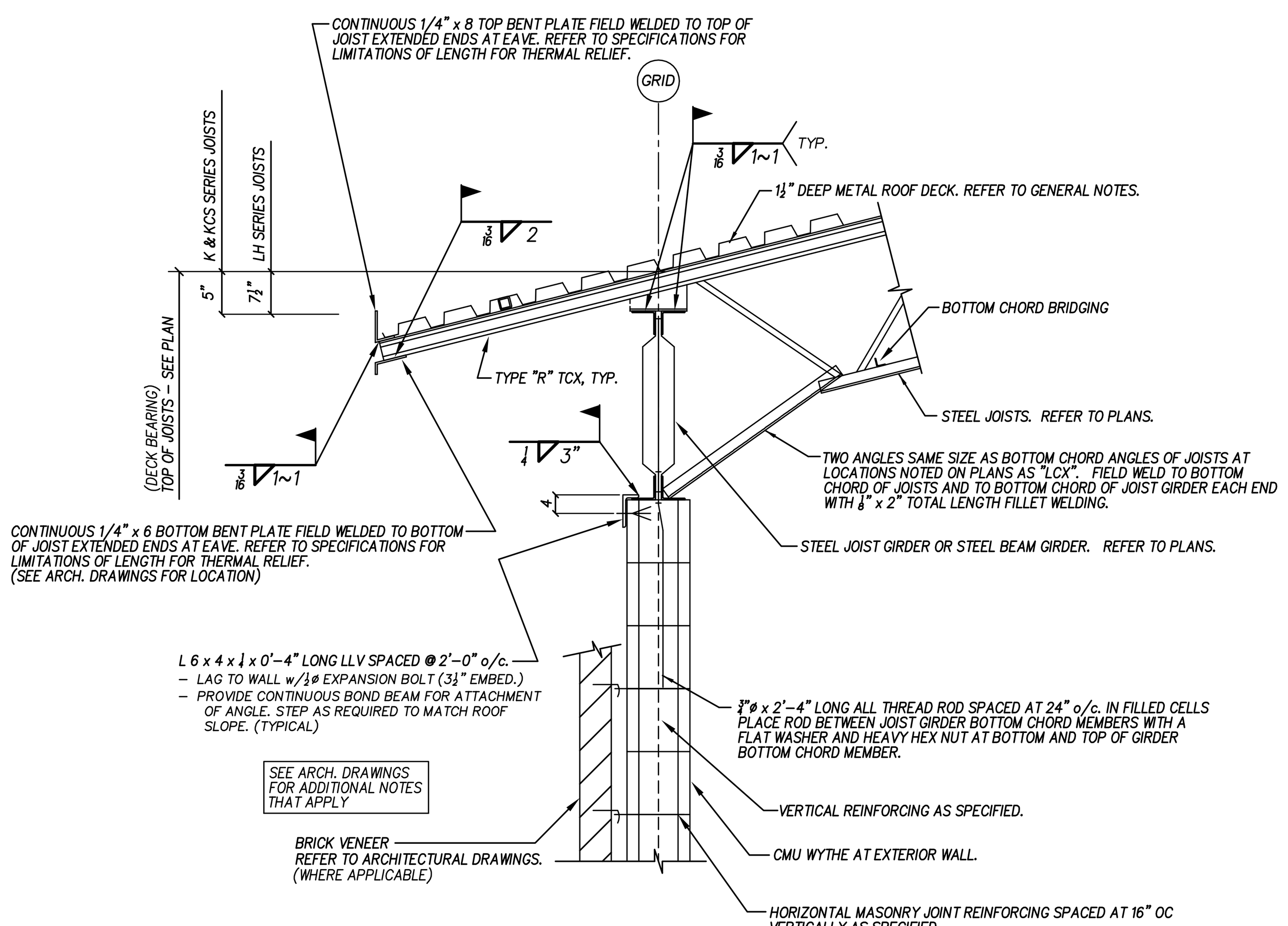
3 TYPICAL JOIST TO BEAM GIRDER CONNECTION DETAIL AT RIDGE
NO SCALE
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



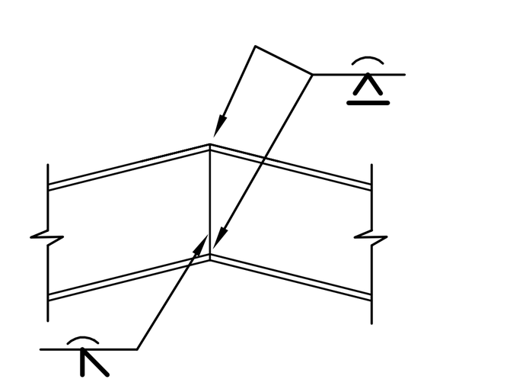
4 TYPICAL JOIST GIRDER TO COLUMN CONNECTION DETAIL AT LOW EAVE
NO SCALE
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



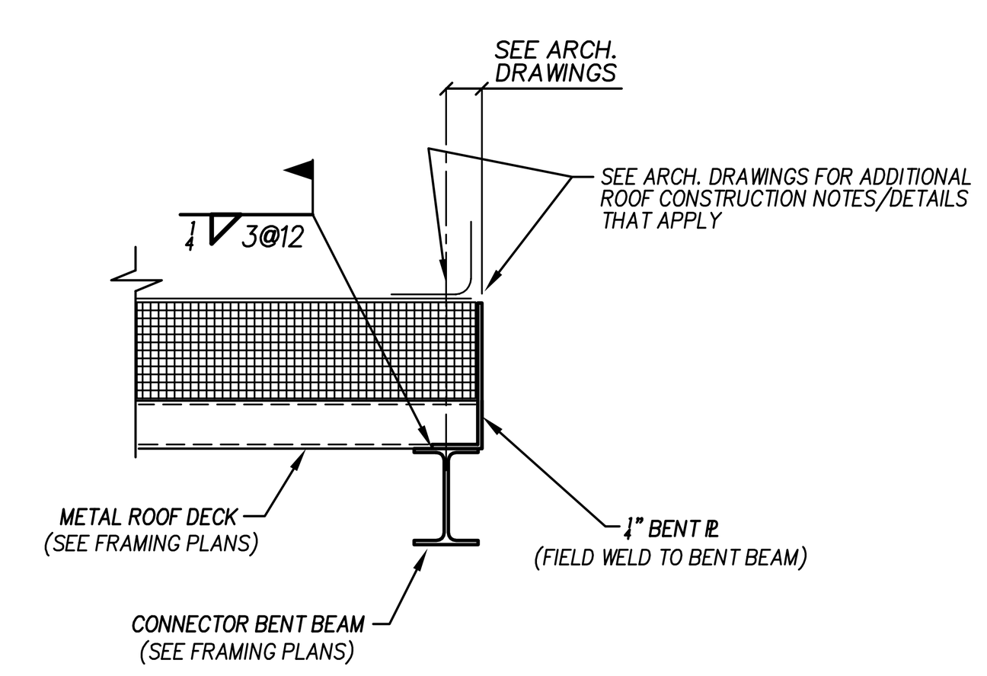
6 EAVE DETAIL AT METAL STUDS OR STOREFRONT HEAD
NO SCALE
– SEE DETAILS 4 AND 5/S1103 FOR ADDITIONAL NOTES THAT APPLY
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



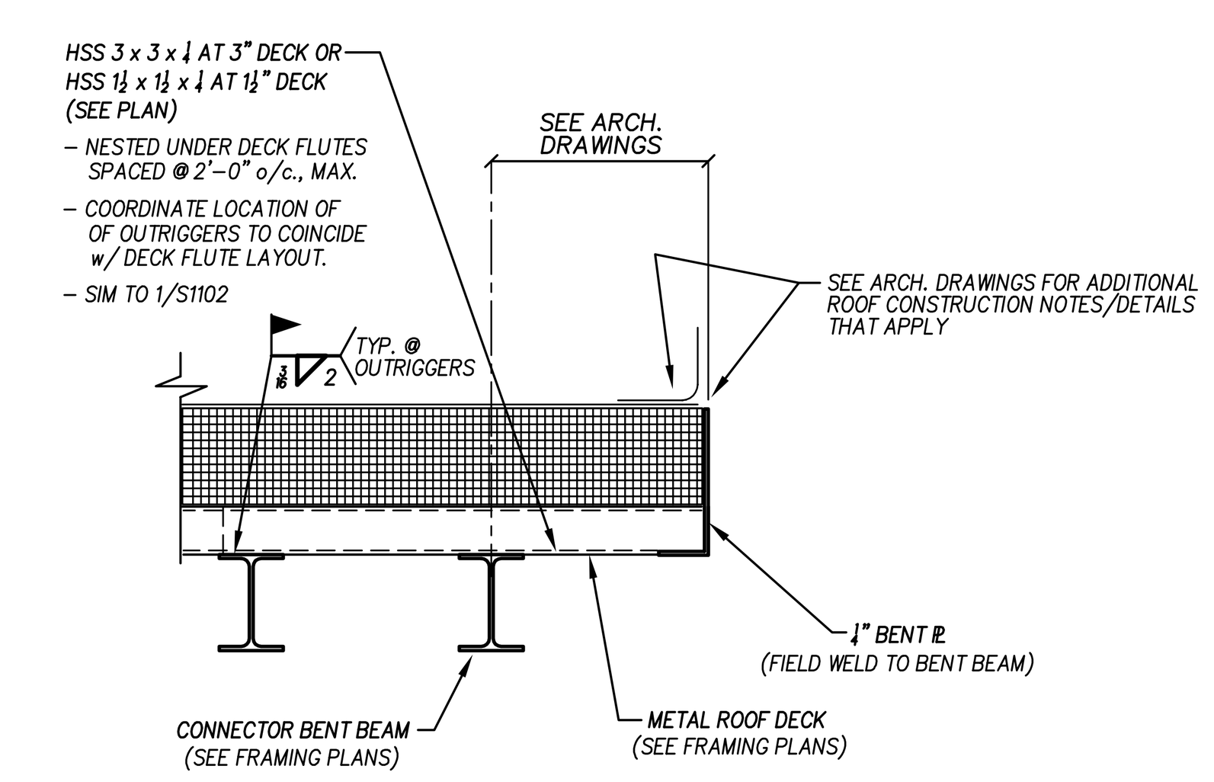
5 TYPICAL EAVE DETAIL AT CMU AND BRICK VENEER SIDEWALLS
NO SCALE
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



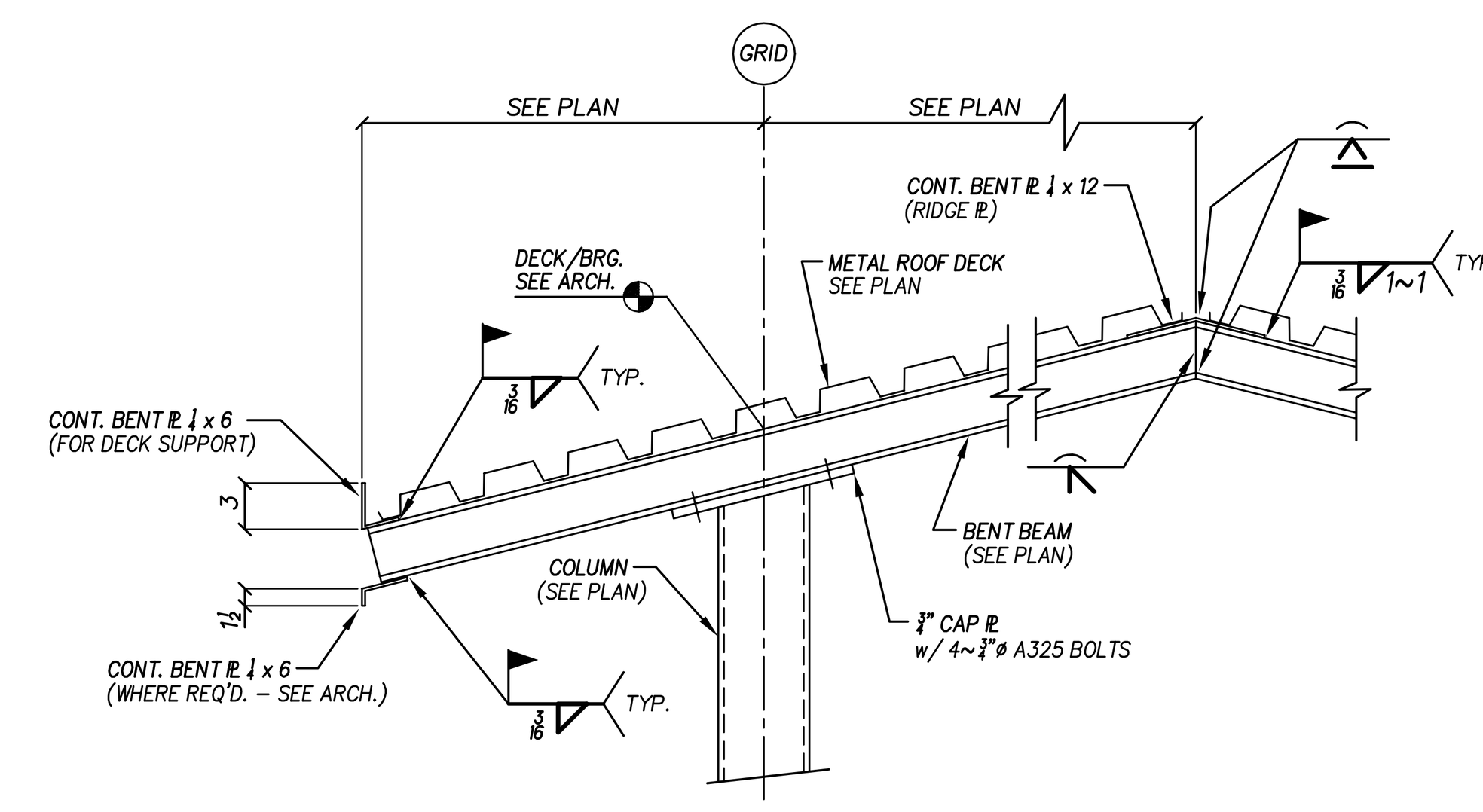
15 TYPICAL BENT BEAM WELDMENTS
NO SCALE



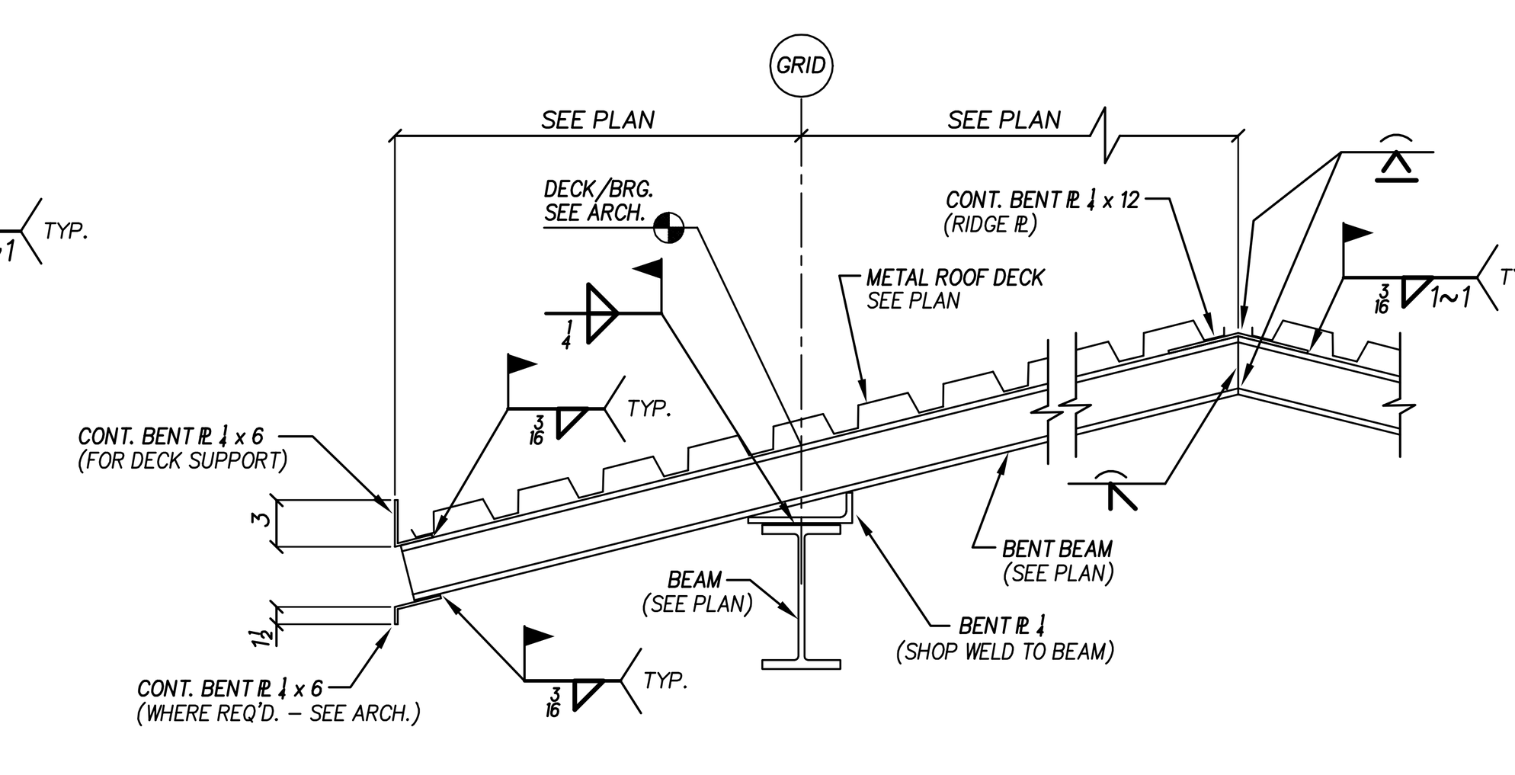
AT CONNECTOR SIDES/ENDS



AT CONNECTOR SIDES/ENDS (WITH OUTRIGGERS)
(IF EDGE OF DECK EXTENDS PAST BEAM FLANGE)

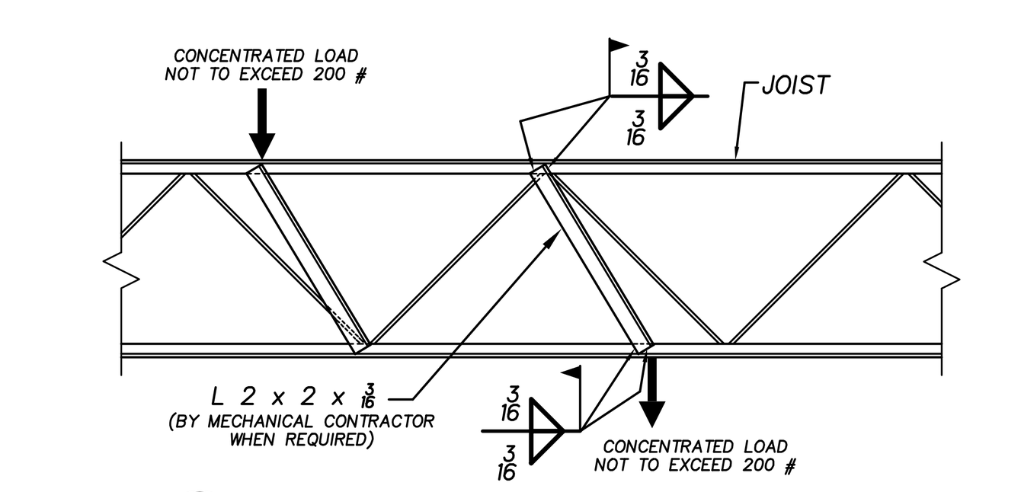


AT COLUMNS

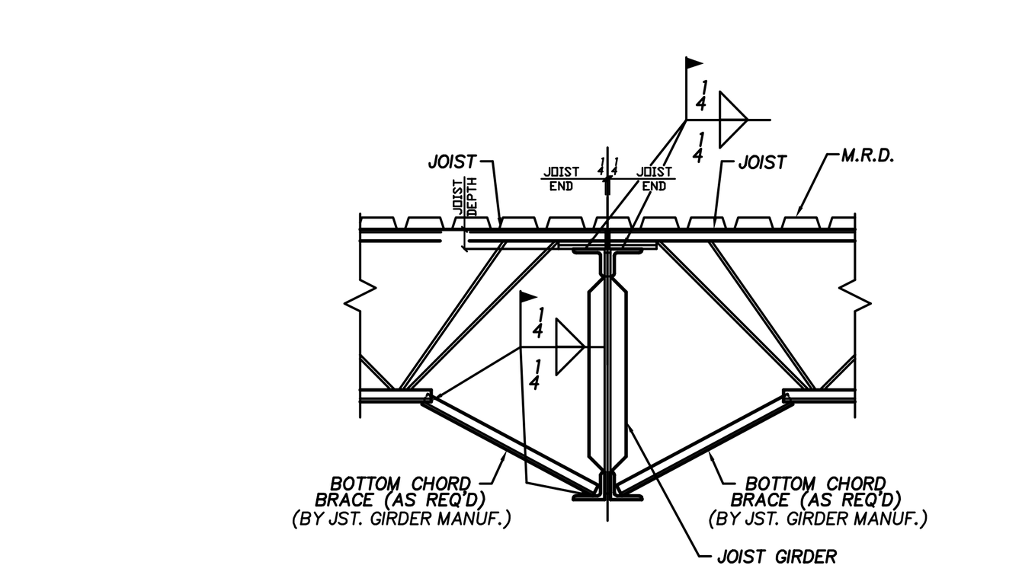


AT BEAMS

7 CONNECTOR DETAILS
NO SCALE



8 TYPICAL JOIST REINFORCEMENT DETAIL
NO SCALE
FOR CONCENTRATED LOADS NOT OCCURING DIRECTLY OVER PANEL POINTS. (TYPICAL AT ROOF MOUNTED EQUIPMENT)



9 TYPICAL GIRDER MID-SPAN BRACE DETAIL
NO SCALE
THE BOTTOM CHORDS MUST BE RESTRAINED IN ACCORDANCE WITH SECTION 104.4 OF THE SJI SPECIFICATIONS. ADDITIONAL BRACES MAY BE REQUIRED, TO BE DESIGNED AND FURNISHED BY THE JOIST GIRDER MANUFACTURER, IF FIXED END MOMENTS OR UPLIFT ARE PRESENT.

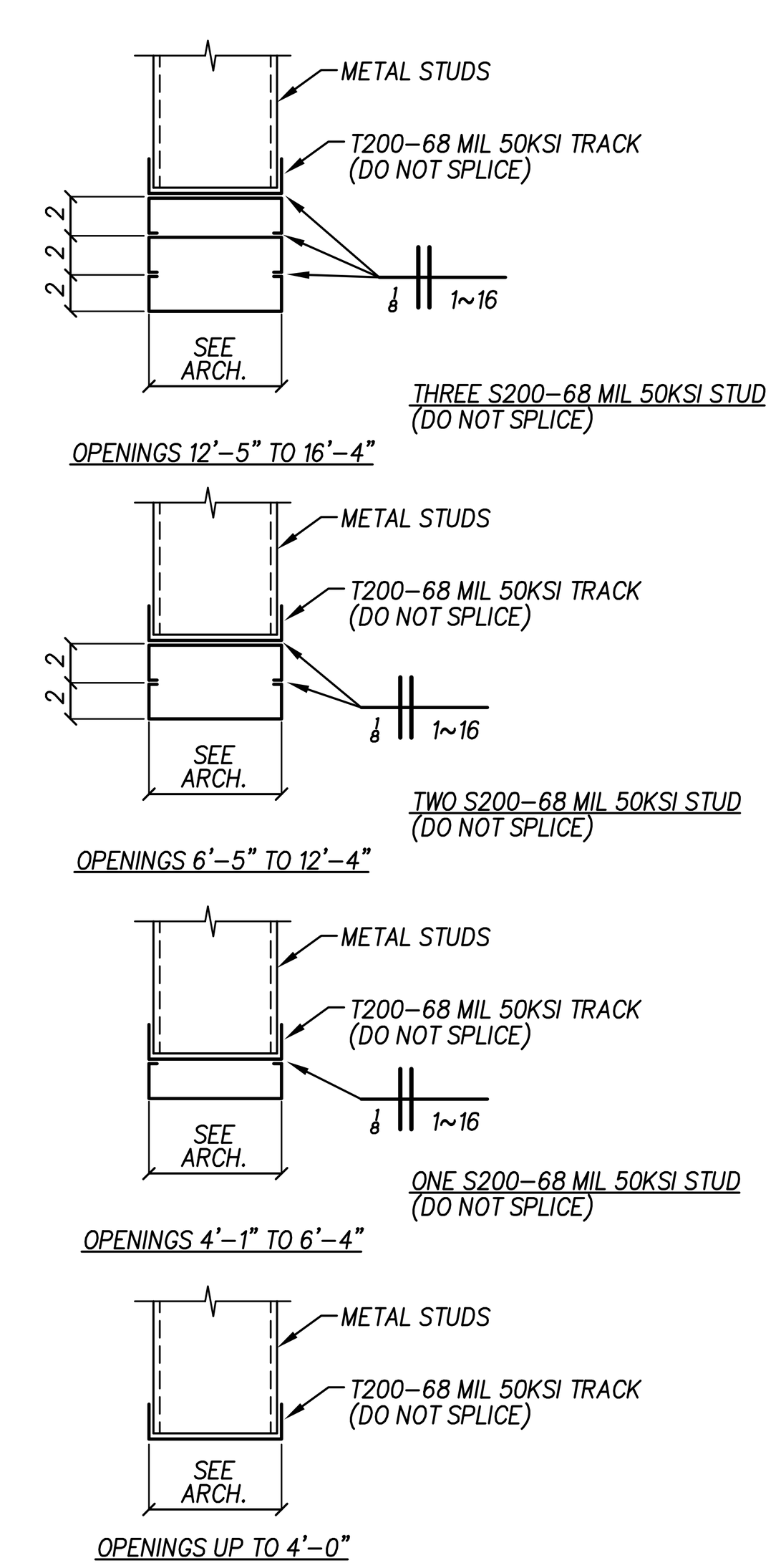
METAL STUD GENERAL NOTES

1. ALL METAL STUD MATERIAL SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES OR APPROVED EQUAL.
2. CONTRACTOR SHALL INSTALL ALL COMPONENTS IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION.
4. ALL METAL STUD MEMBERS SHALL HAVE Fy = 33 KSI, MINIMUM.

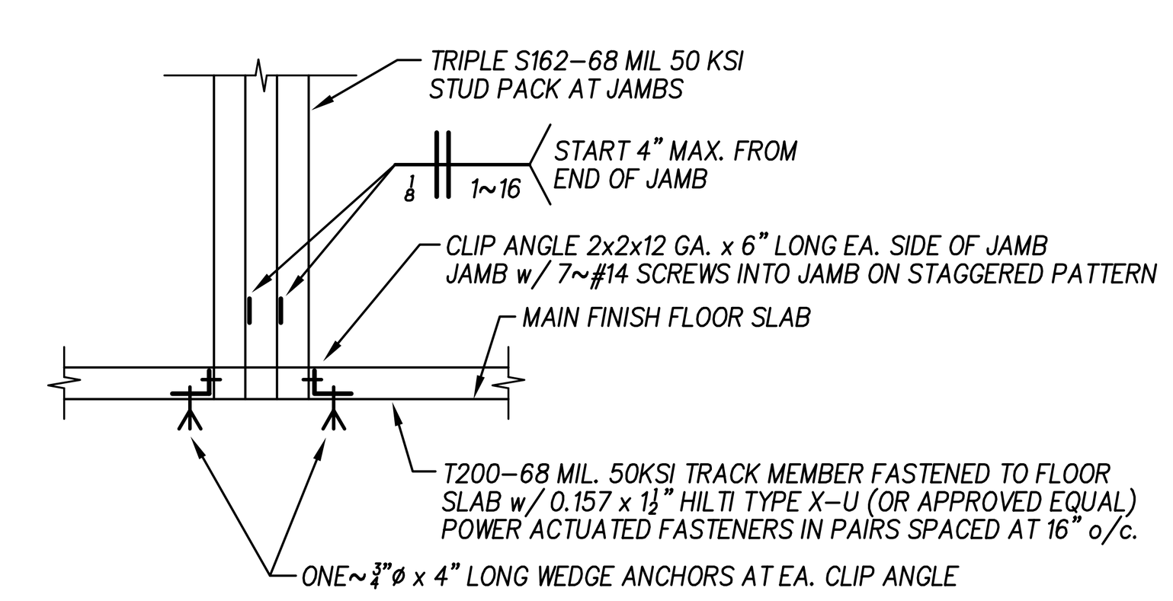
NOTE: ALL METAL STUDS AND METAL SYSTEM TO BE MANUFACTURED BY DIETRICH INDUSTRIES OR EQUAL

CONNECTION SCHEDULE #10 TEK SCREWS (U.N.O)

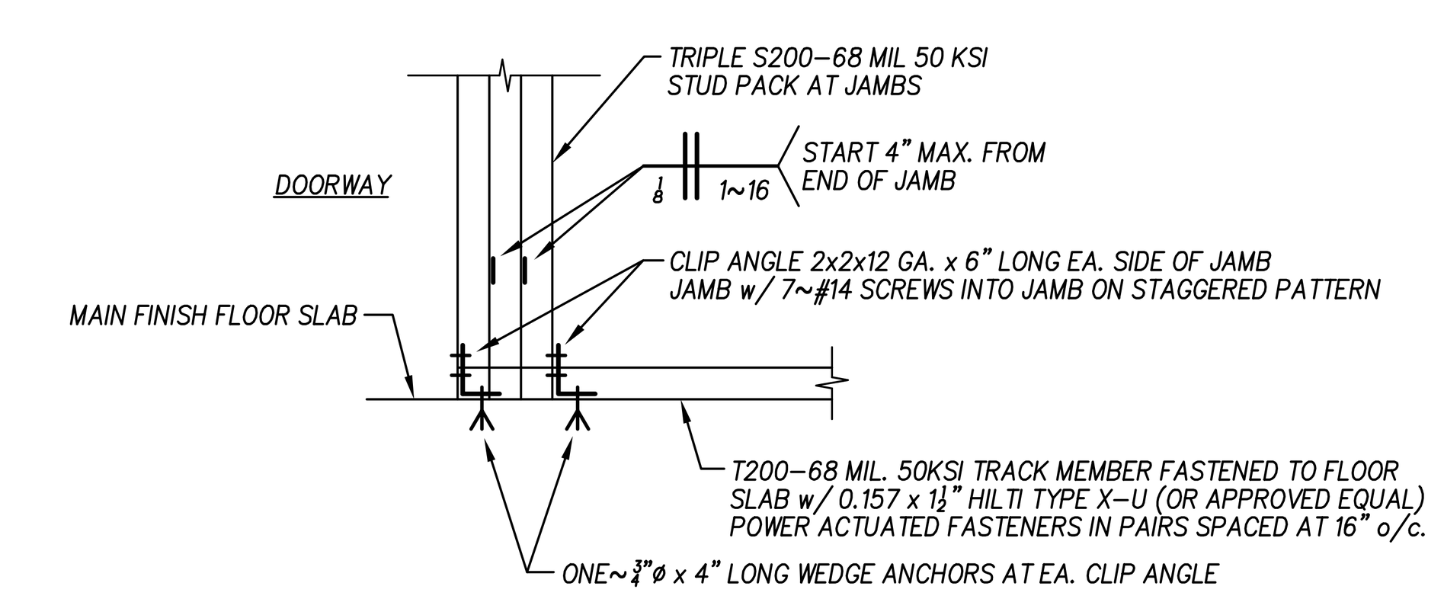
	CONNECTION TYPE	COMMENTS
CONNECTIONS AT STUDS	BOTTOM TRACK TO FLOOR	2 ~ POWDER DRIVEN FASTENERS @ 24" o/c
	STUD TO BOTTOM TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
	STUD TO TOP TRACK	ONE SCREW IN EA. FLANGE, U.O.N.
	PLYWOOD TO STUDS	SCREW @ 6" o/c ALONG EA. STUD
	TOP PL TO TRACK	#10 TEK AT 12" o/c.
	FC TO STUD	4~#10 TEK
	FC TO SLAB	½"ø EXP. ANCH.
CONNECTIONS AT JOISTS	JOIST TO TOP TRACK (BEARING)	(2) SCREWS IN FLANGE
	PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST
	BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
	BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
	TREAD TO VERTICAL STUD	(4) #10 TEK SCREWS IN WEB
	WOOD SHEATHING	8d, 12" o/c AT SUPPORTS, 6" o/c. AT EDGES
	HEADER TO HEADER	#10 TEK AT 12" o/c. STAGGERED (WEB TO WEB)
	HEADER TO CRIPPLE	SA18 GA. w/ 4#8 TEK PER LEG
	CRIPPLE TO LOWER TRACK	2~#8 TEK EA. FL.
	HEADER TO BEARING STUD	SA 18 GA. w/4~#8 TEK PER LEG
	BEARING STUD TO CRC BRACE	BRIDGE CLIP
	BEARING STUD TO BRIDGE CLIP	4~#10 TEK
	BRIDGE CLIP TO CRC	4~#10 TEK
	STUD TO WALL	2 SCREWS IN EA. WEB @ 16" o/c
	JOIST TO JOIST INTERFACE	ONE SCREW IN EA. FLANGE
	PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST
	BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS
	BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS



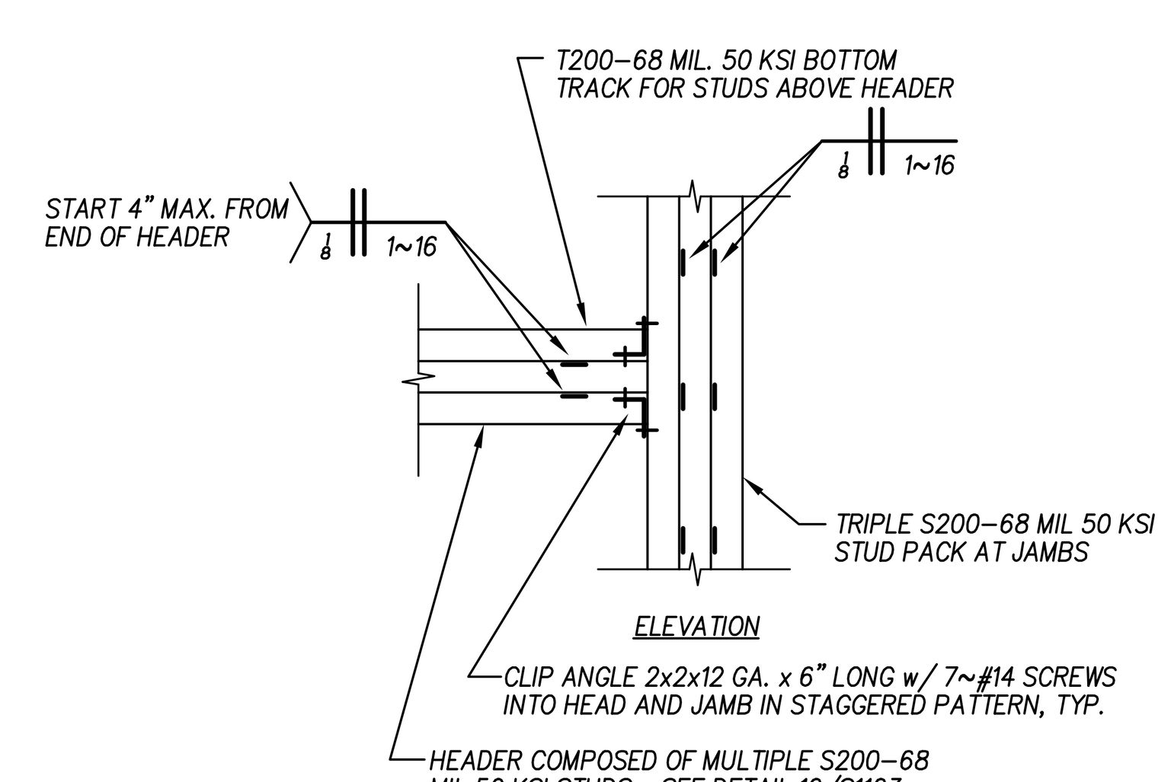
10 TYPICAL WINDOW & DOOR HEAD DETAILS
NO SCALE



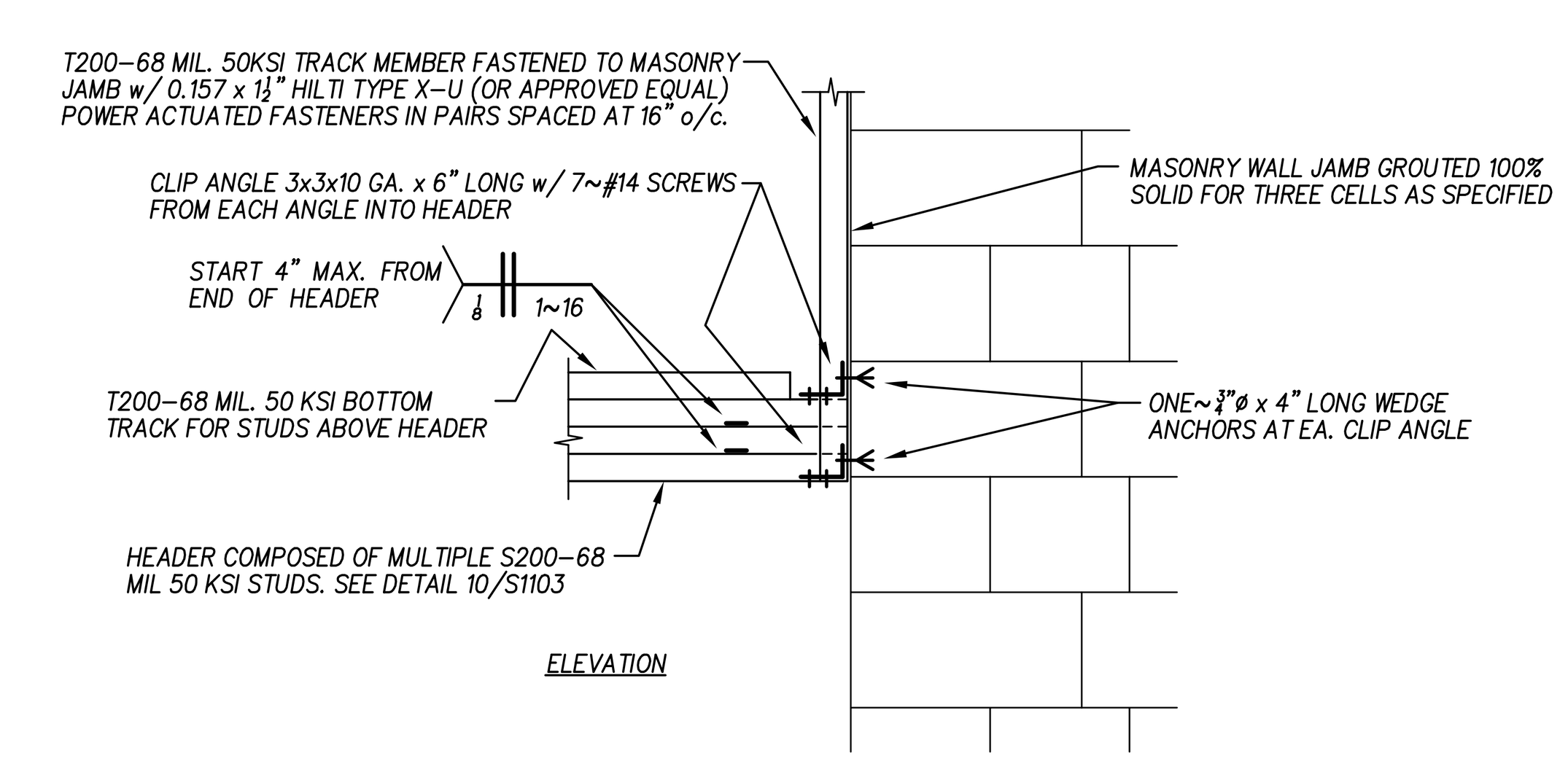
11 WINDOW JAMB TO FLOOR SLAB DETAIL
NO SCALE



13 DOOR JAMB CONNECTION TO FLOOR DETAIL
NO SCALE



12 TYPICAL WINDOW OR DOOR HEAD TO METAL STUD JAMB CONNECTION DETAIL
NO SCALE



14 WINDOW OR DOOR HEAD TO JAMB CONNECTION TO MASONRY WALL DETAIL (IF REQUIRED)
NO SCALE

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22 AUG 2024

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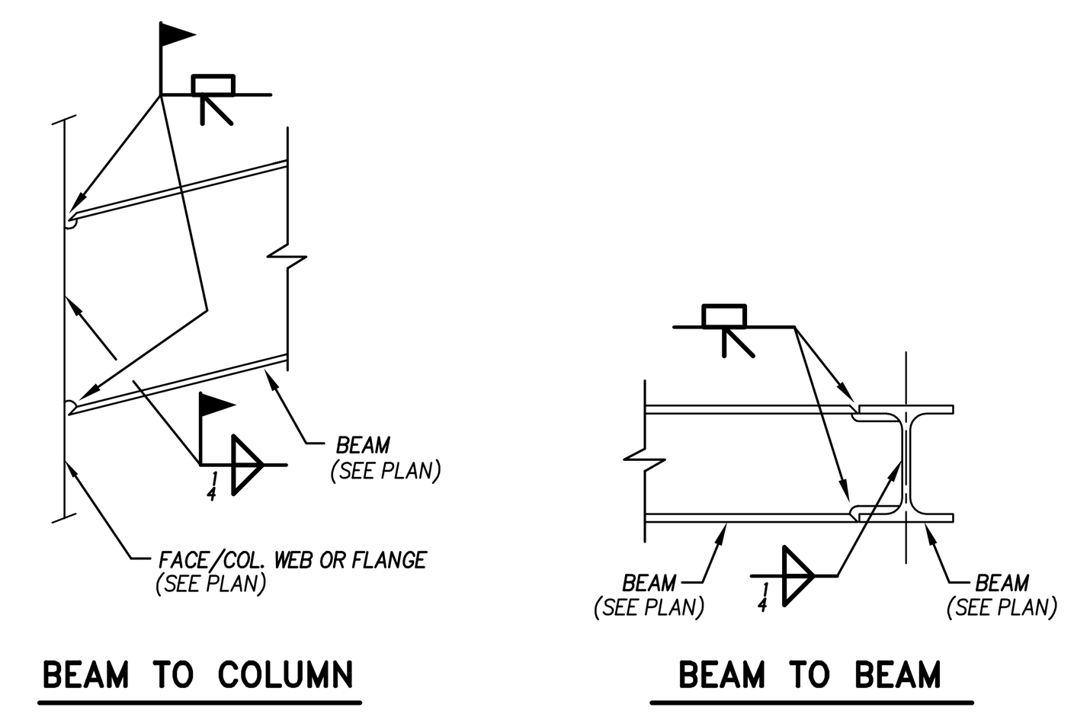
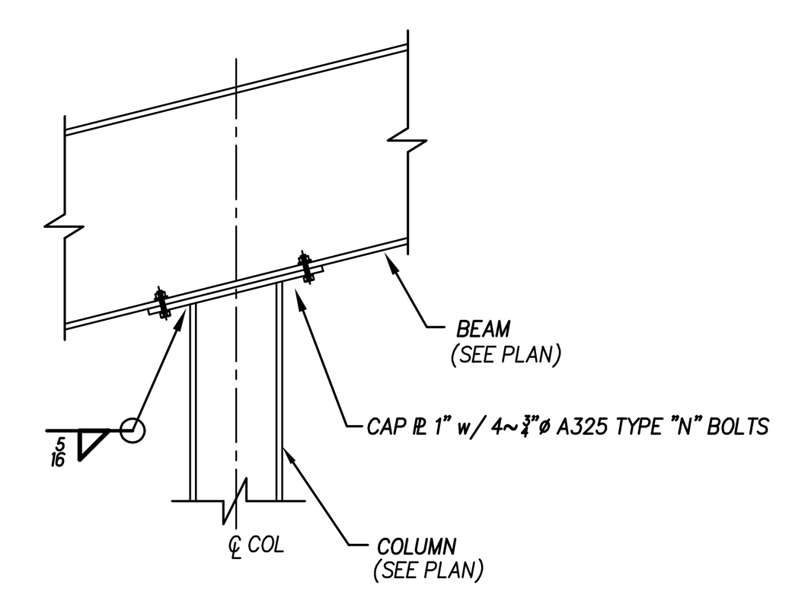
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 1103

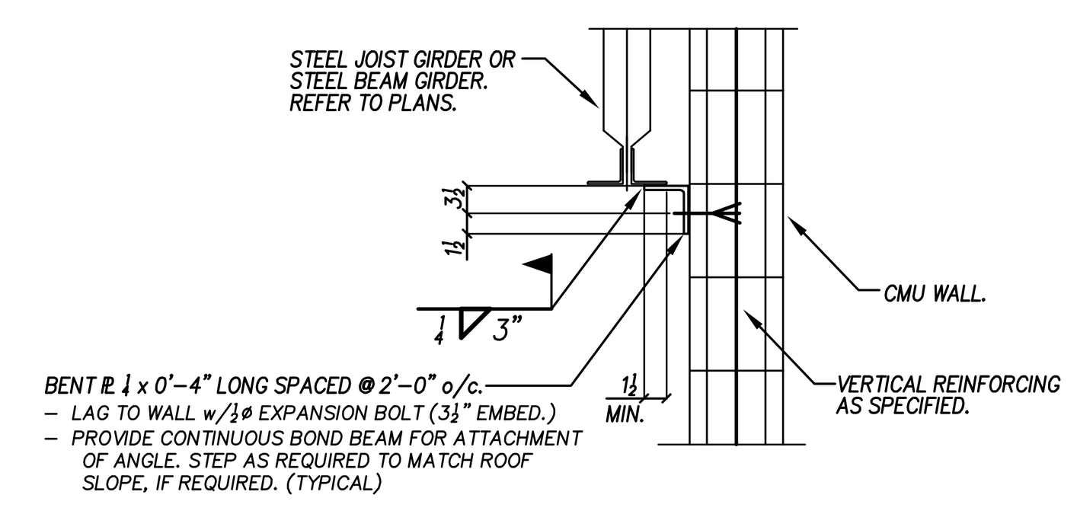


NO SCALE 1 TYPICAL MOMENT CONNECTION DETAILS

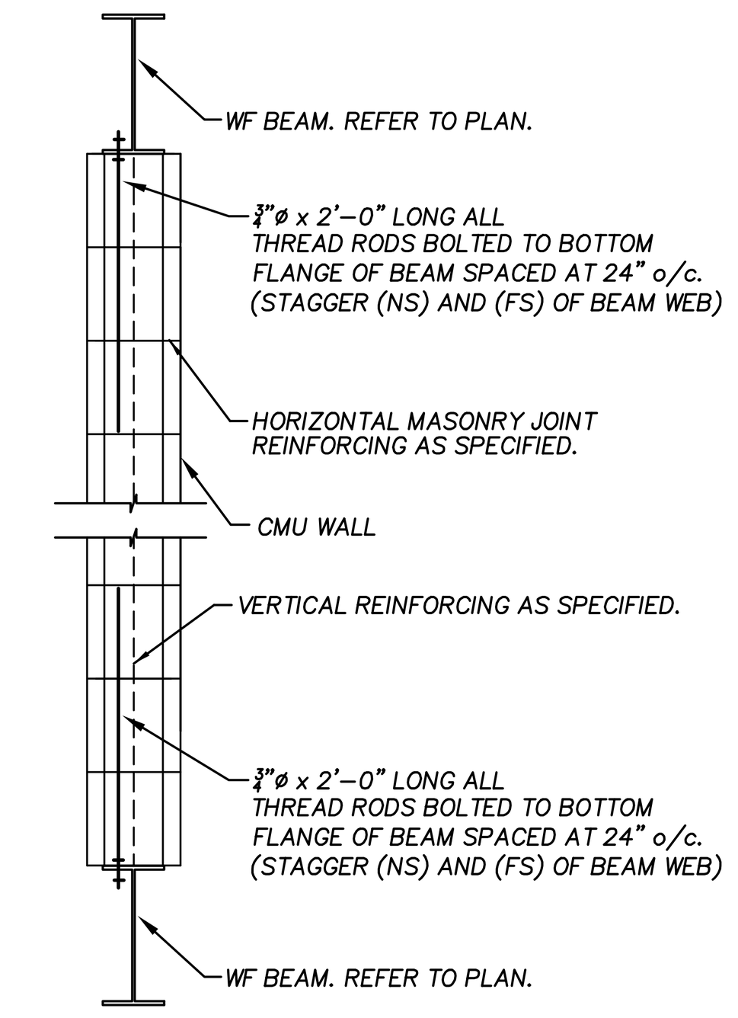
▲ – AS INDICATED ON FRAMING PLANS



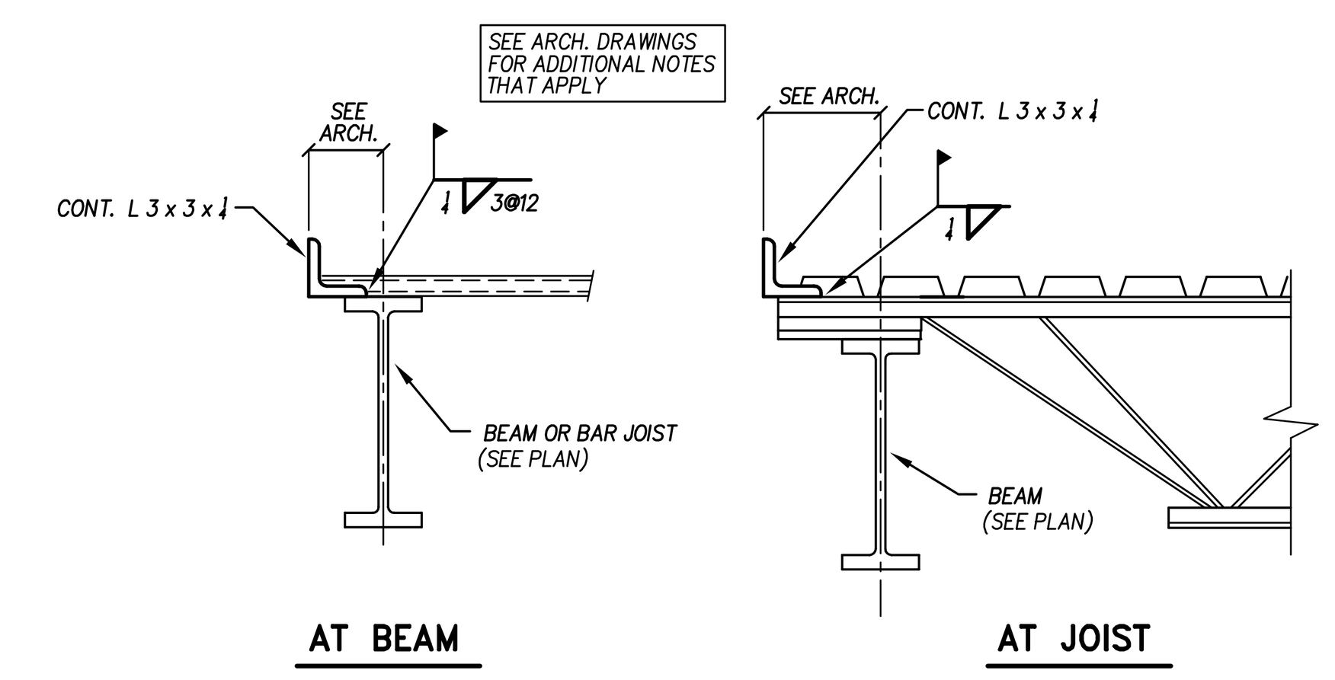
NO SCALE 2 TYPICAL BEAM OVER COLUMN CONNECTION



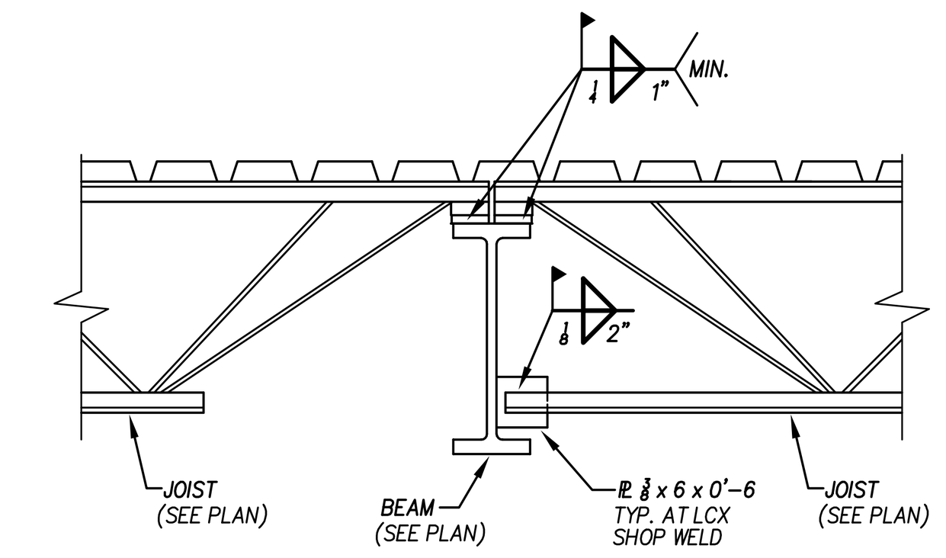
NO SCALE 3 CMU WALL TIE DETAIL



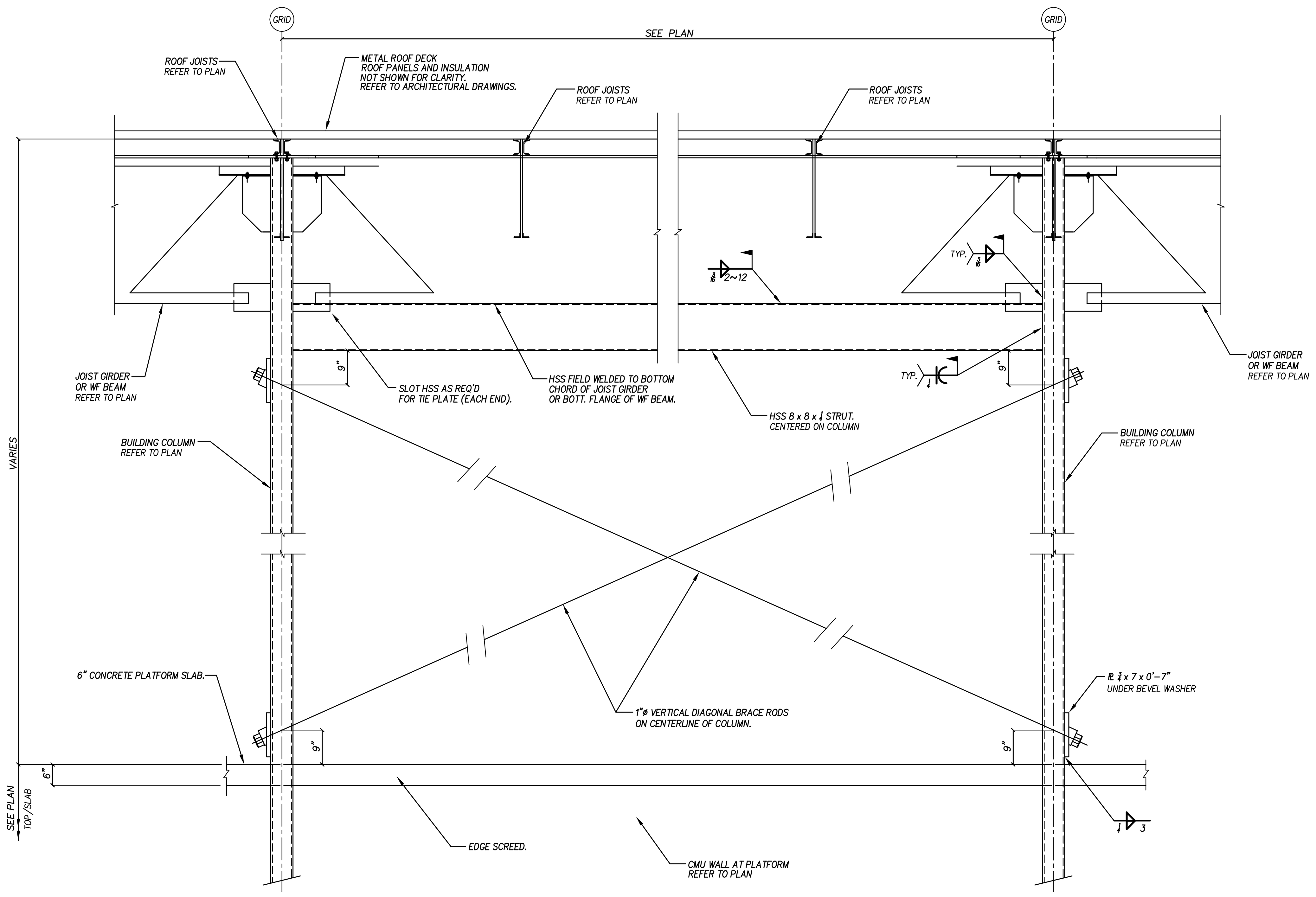
NO SCALE 4 BEAM TO CMU WALL CONNECTION



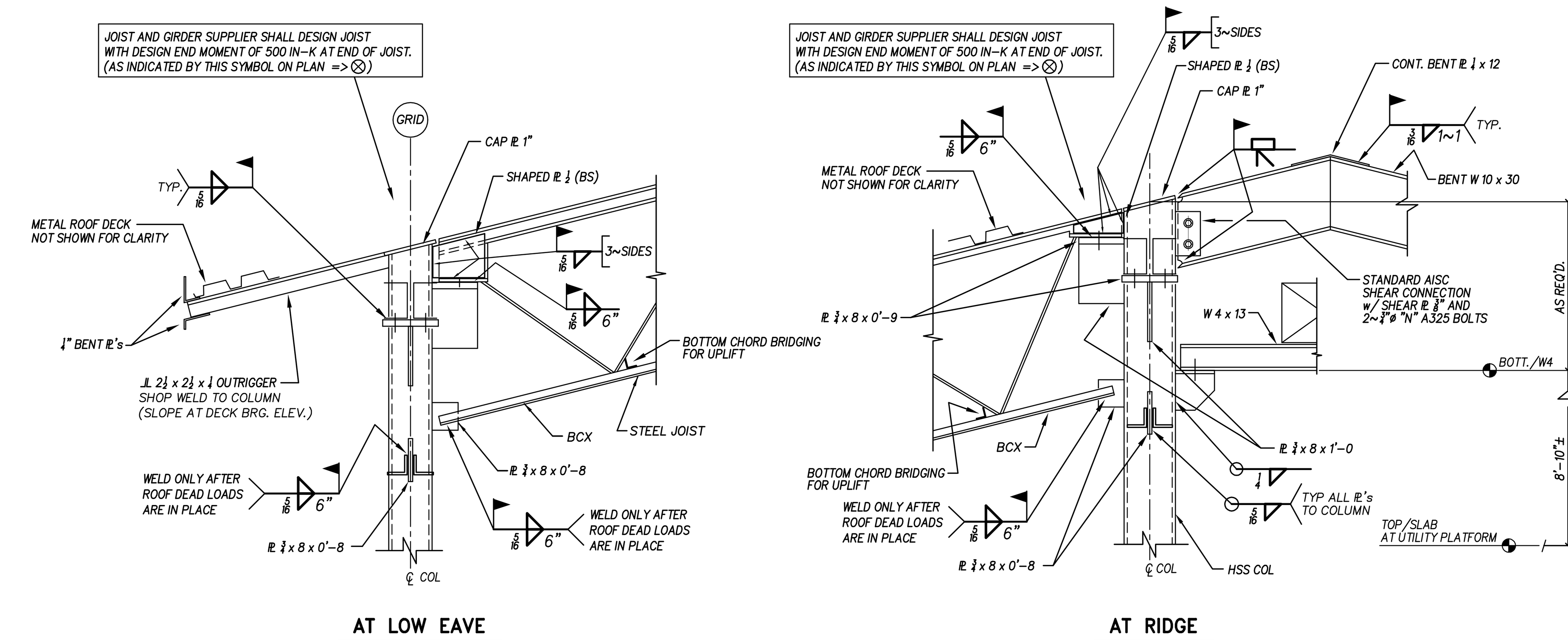
NO SCALE 5 EDGE ANGLE AT ROOF



NO SCALE 6 TYPICAL JOIST WELD

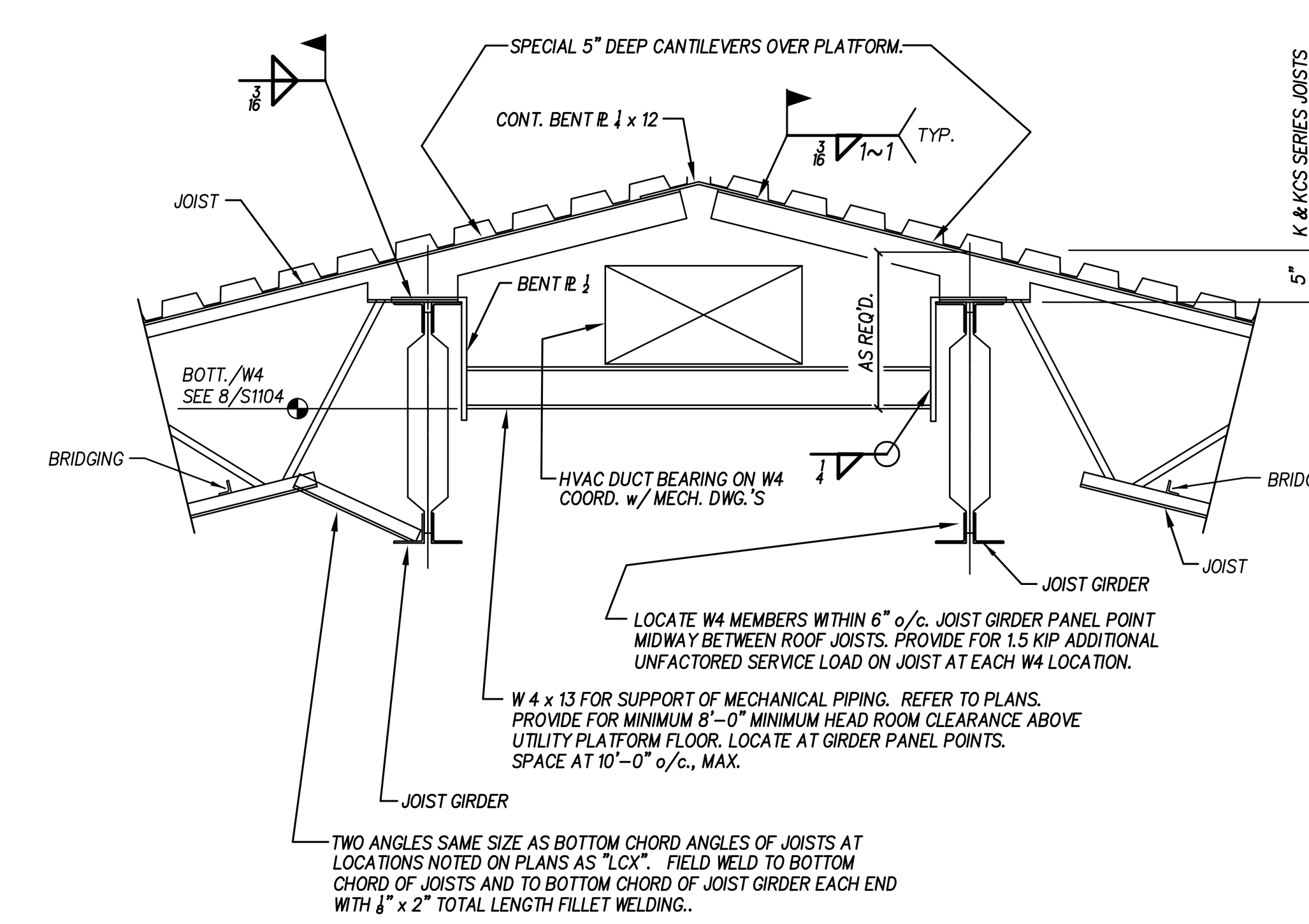


NO SCALE 7 TYPICAL ROD VERTICAL BRACE VB-1 DETAIL ABOVE PLATFORM



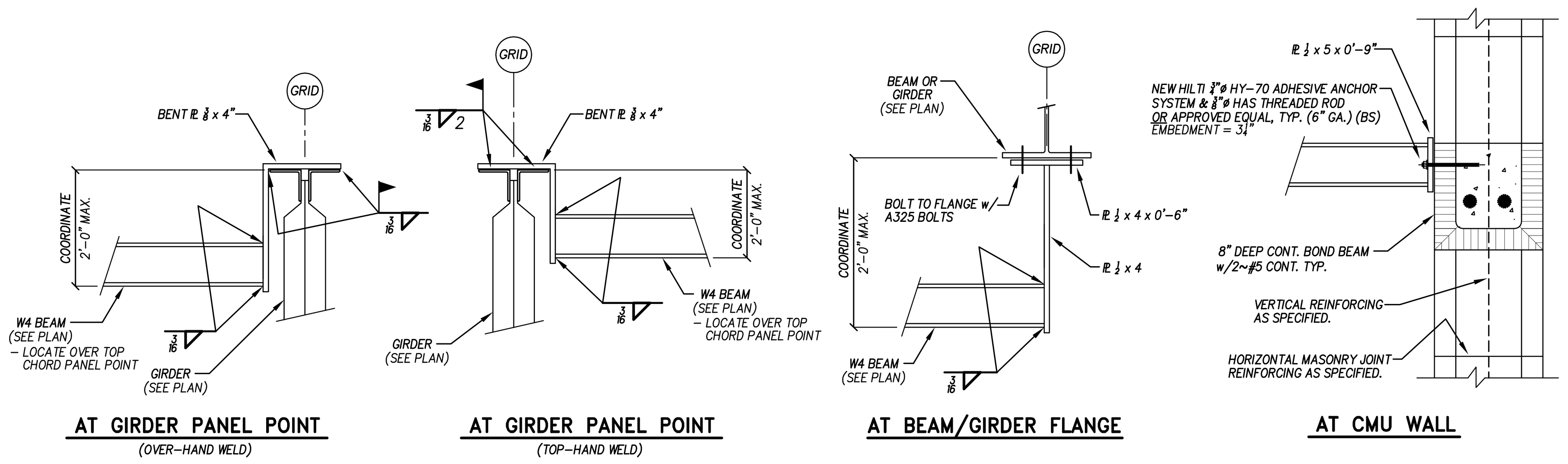
NO SCALE 8 CLASSROOM RIDGE DETAIL AT BENT

1.) SEE 4/S1103 AND 5/S1103 FOR ADDITONAL NOTES THAT APPLY.
2.) WELD ALL JOIST BOTTOM CHORDS AFTER ROOF DEAD LOADS ARE IN PLACE.

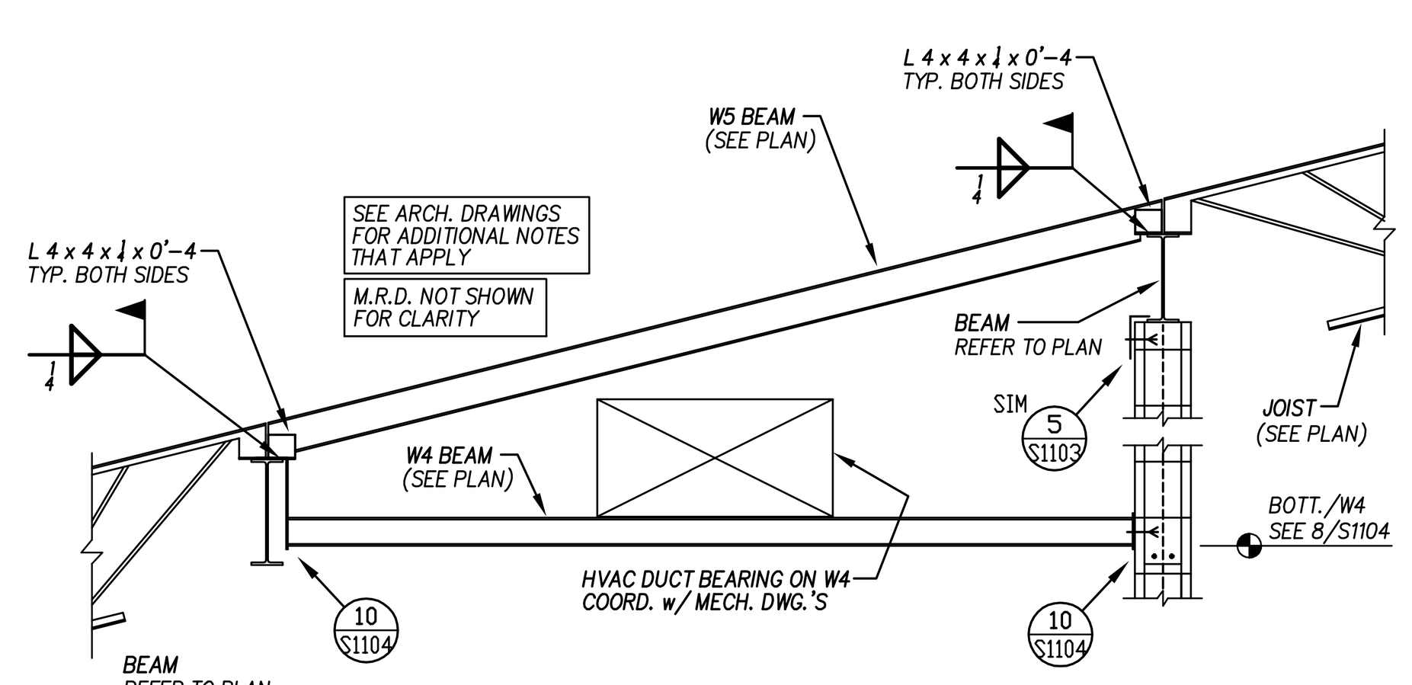


NO SCALE 9 TYPICAL DETAIL AT RIDGE OVER PLATFORM

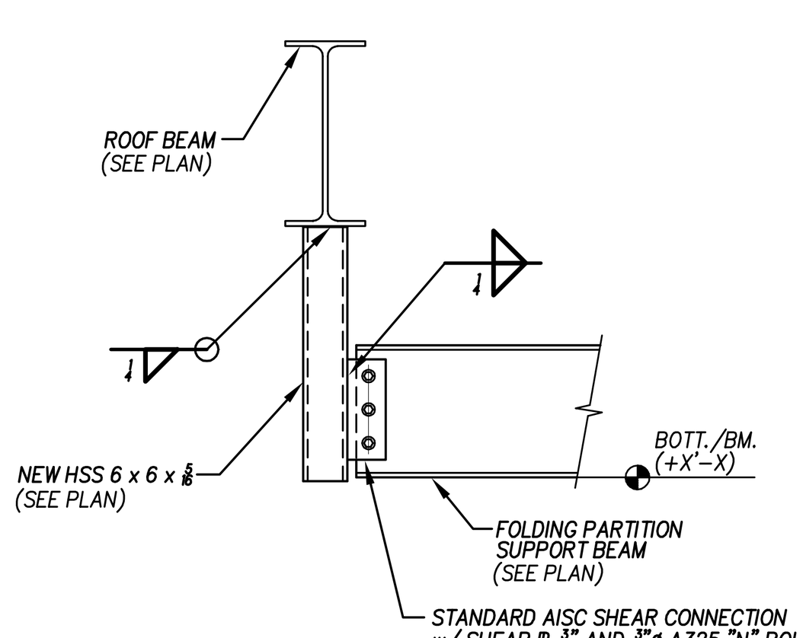
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



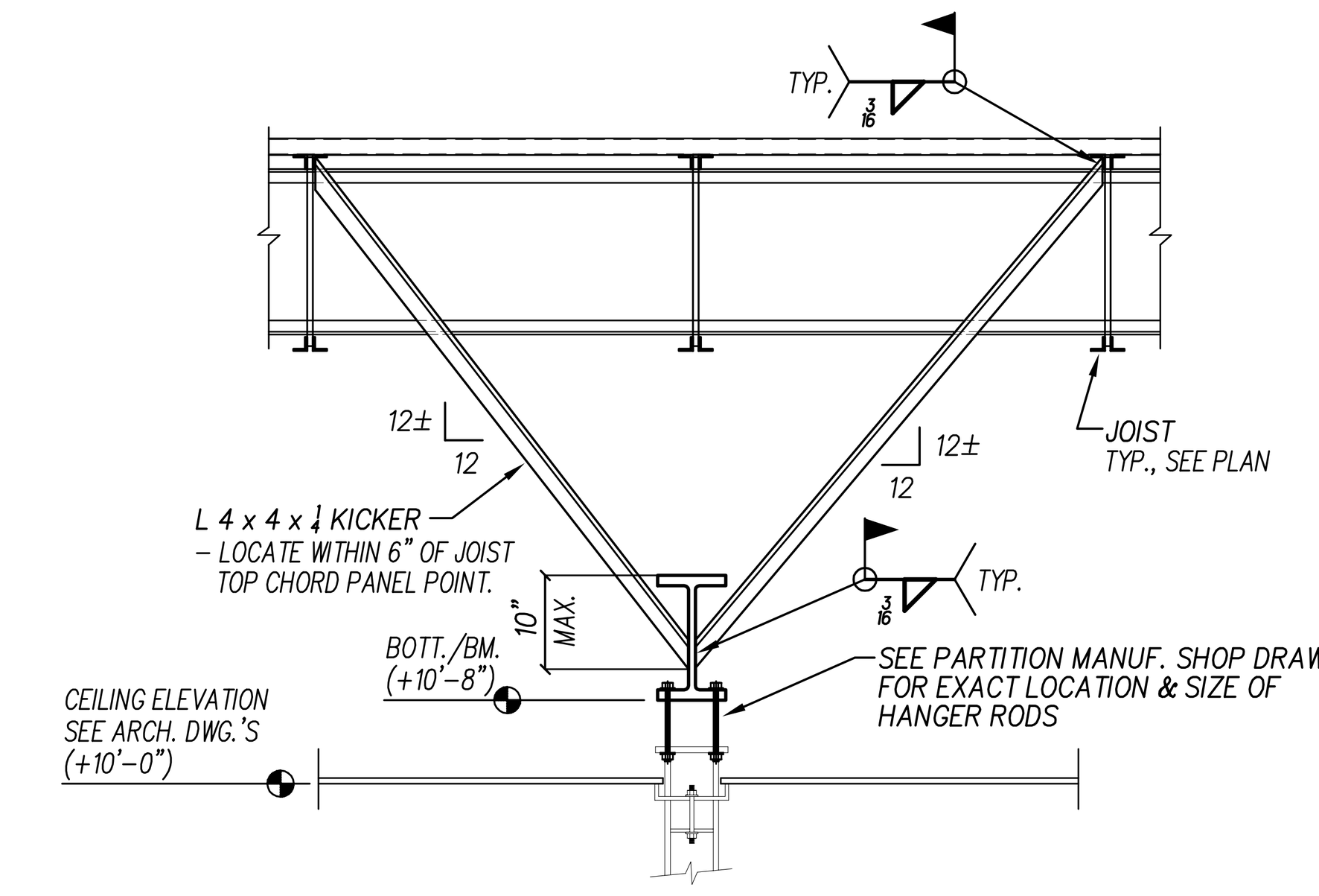
NO SCALE 10 PIPE HANGER SUPPORT DETAILS



NO SCALE 11 SECTION OVER PLATFORM



NO SCALE 12 HANGER SECTION



NO SCALE 13 SECTION AT FOLDING PARTITION

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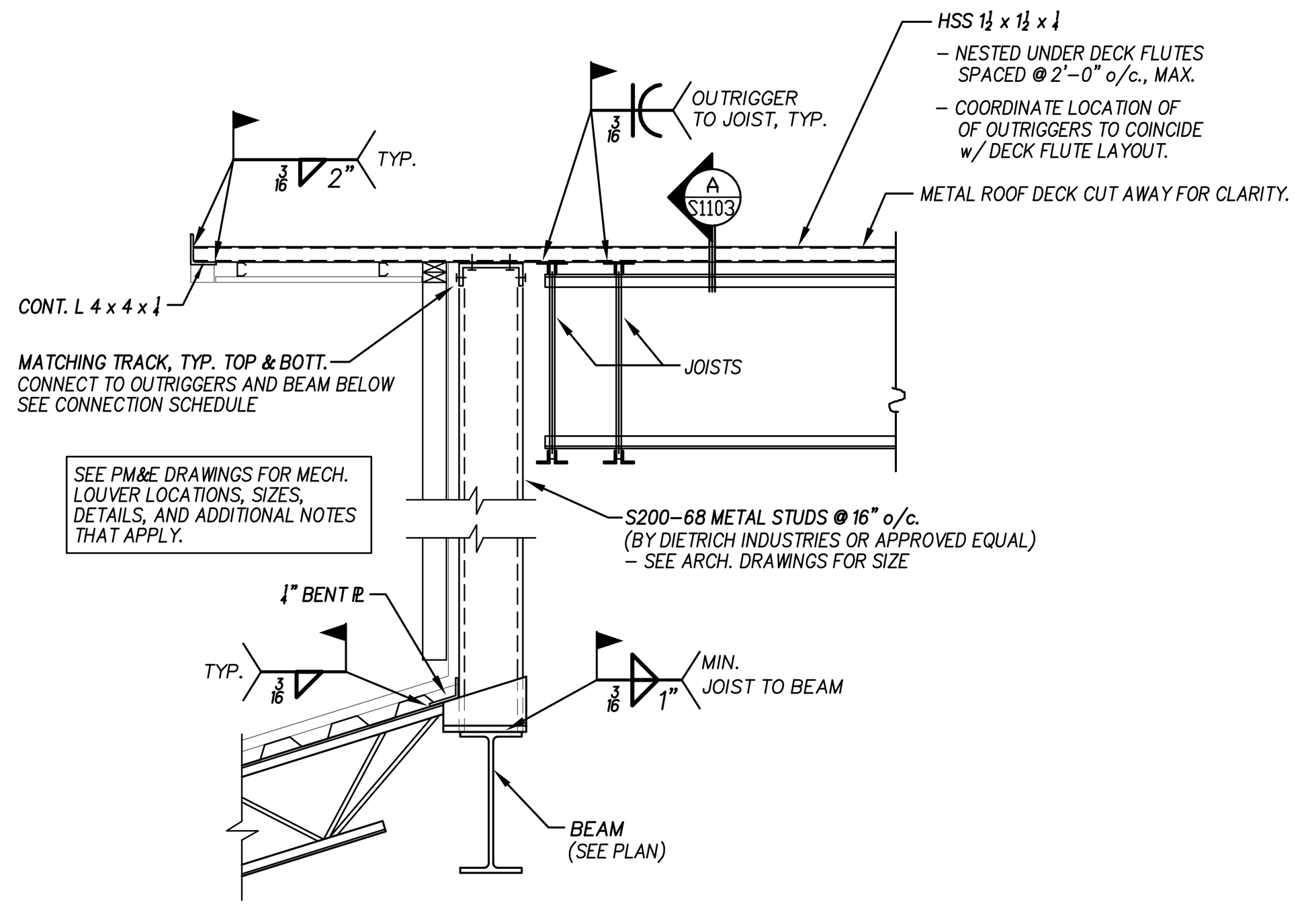
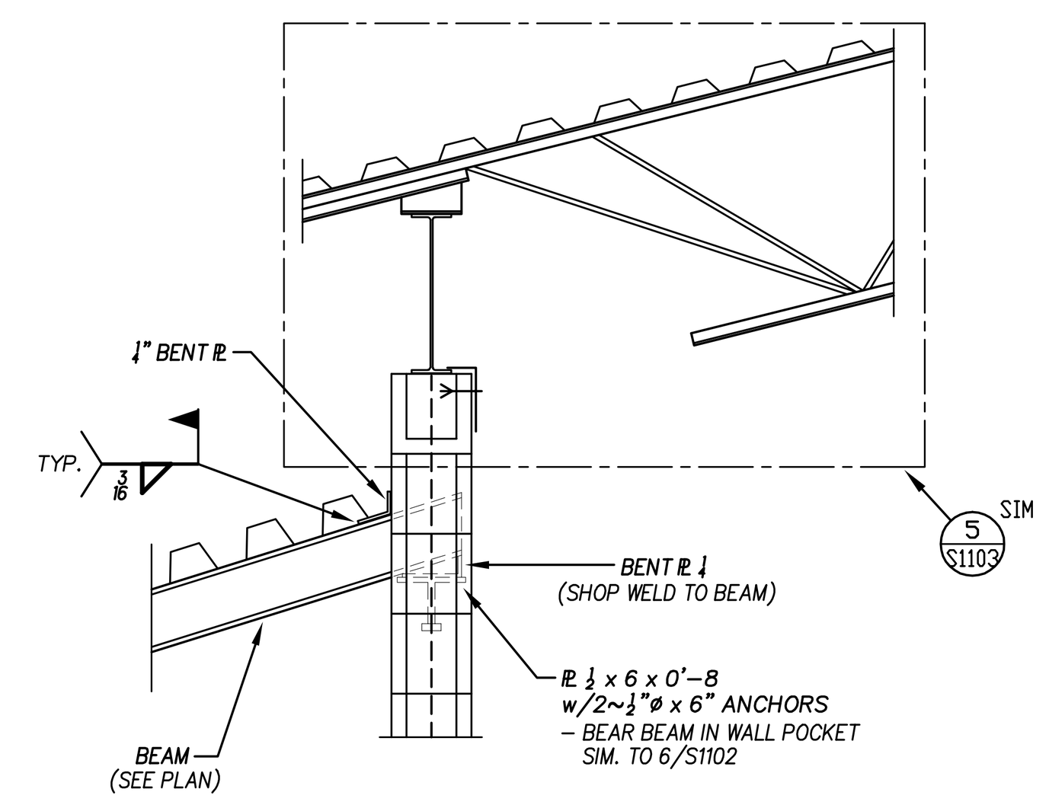
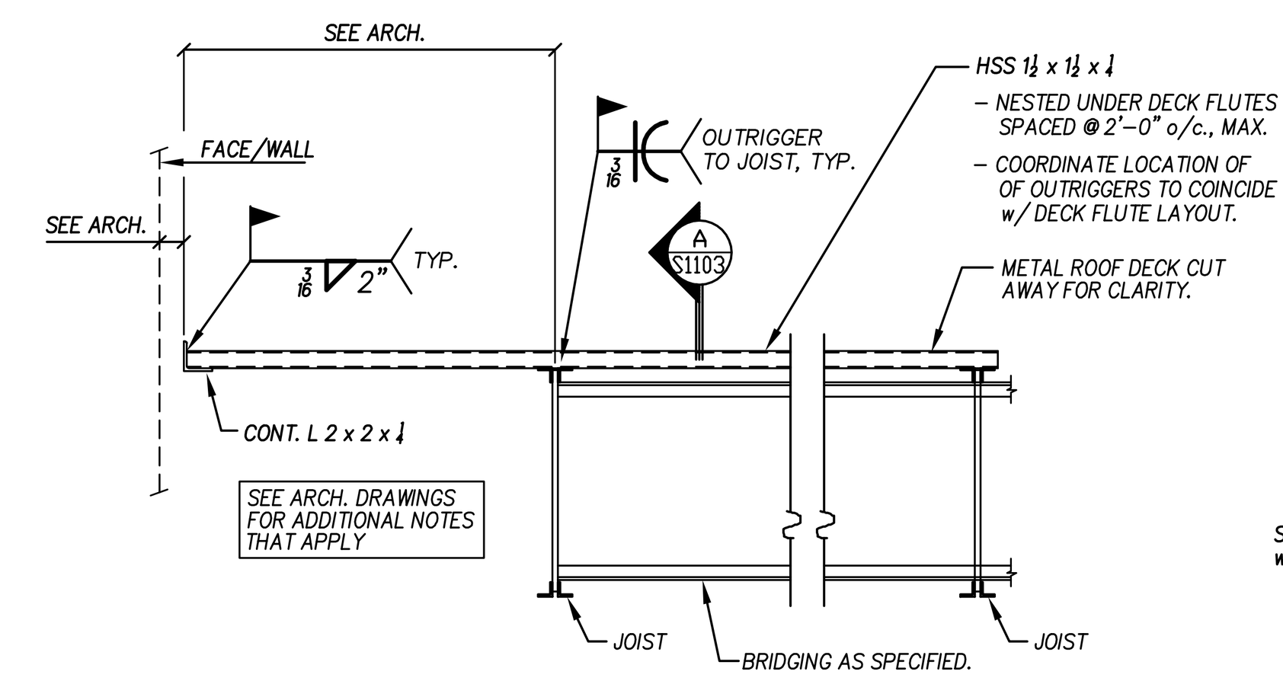


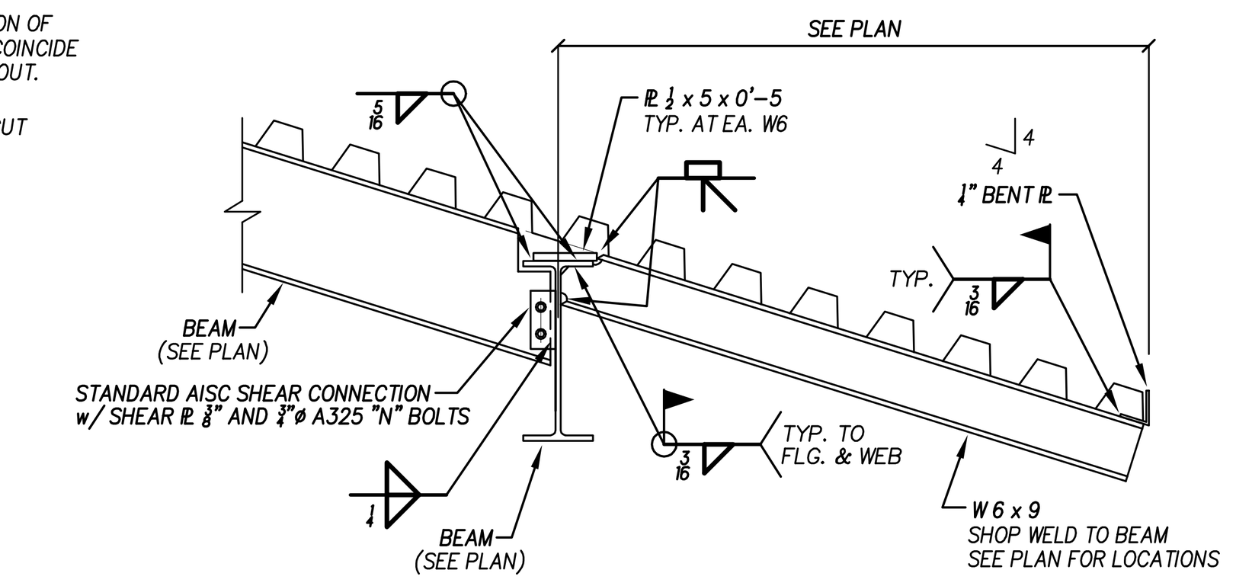
1 TYPICAL GABLE SECTION
NO SCALE



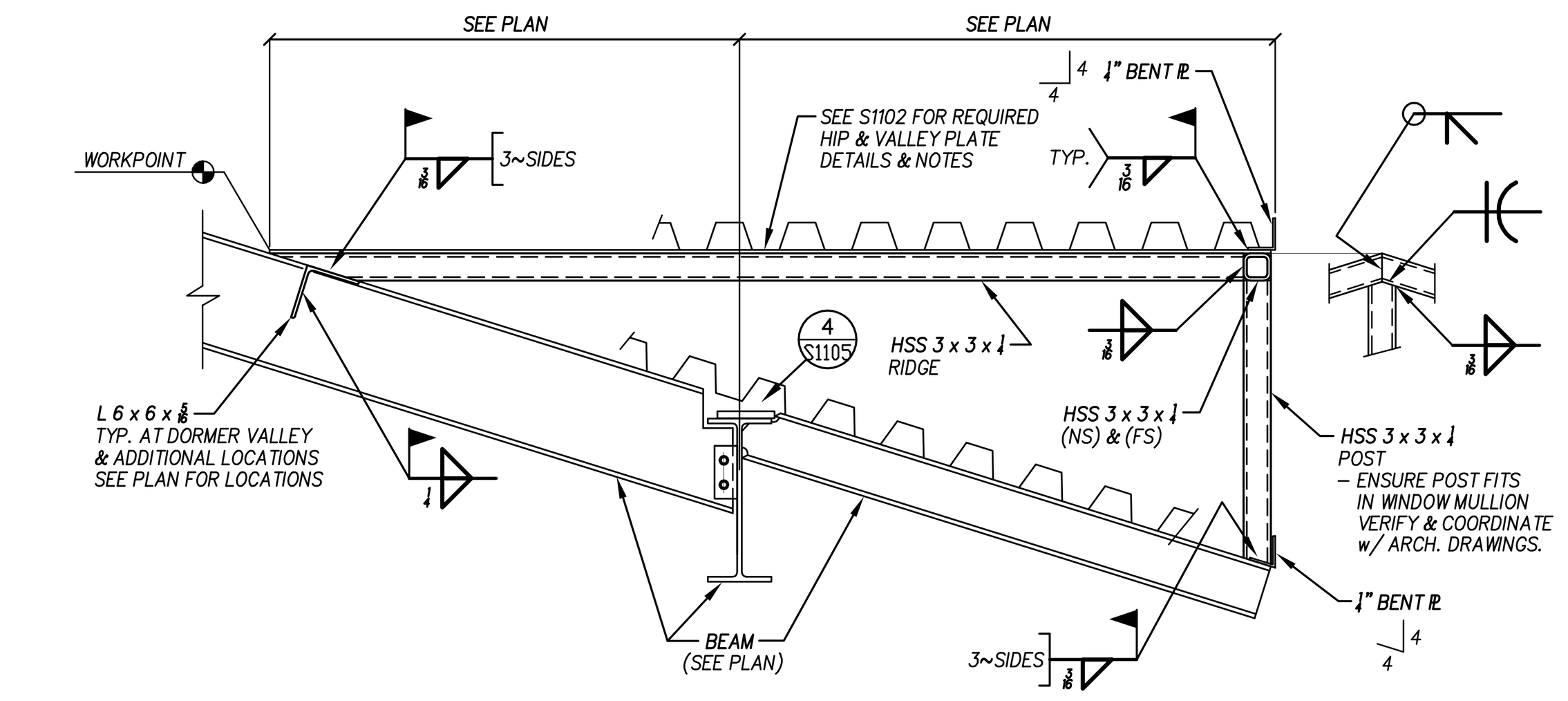
2 HIGH CONNECTOR SECTION AT GYM BUILDING
NO SCALE



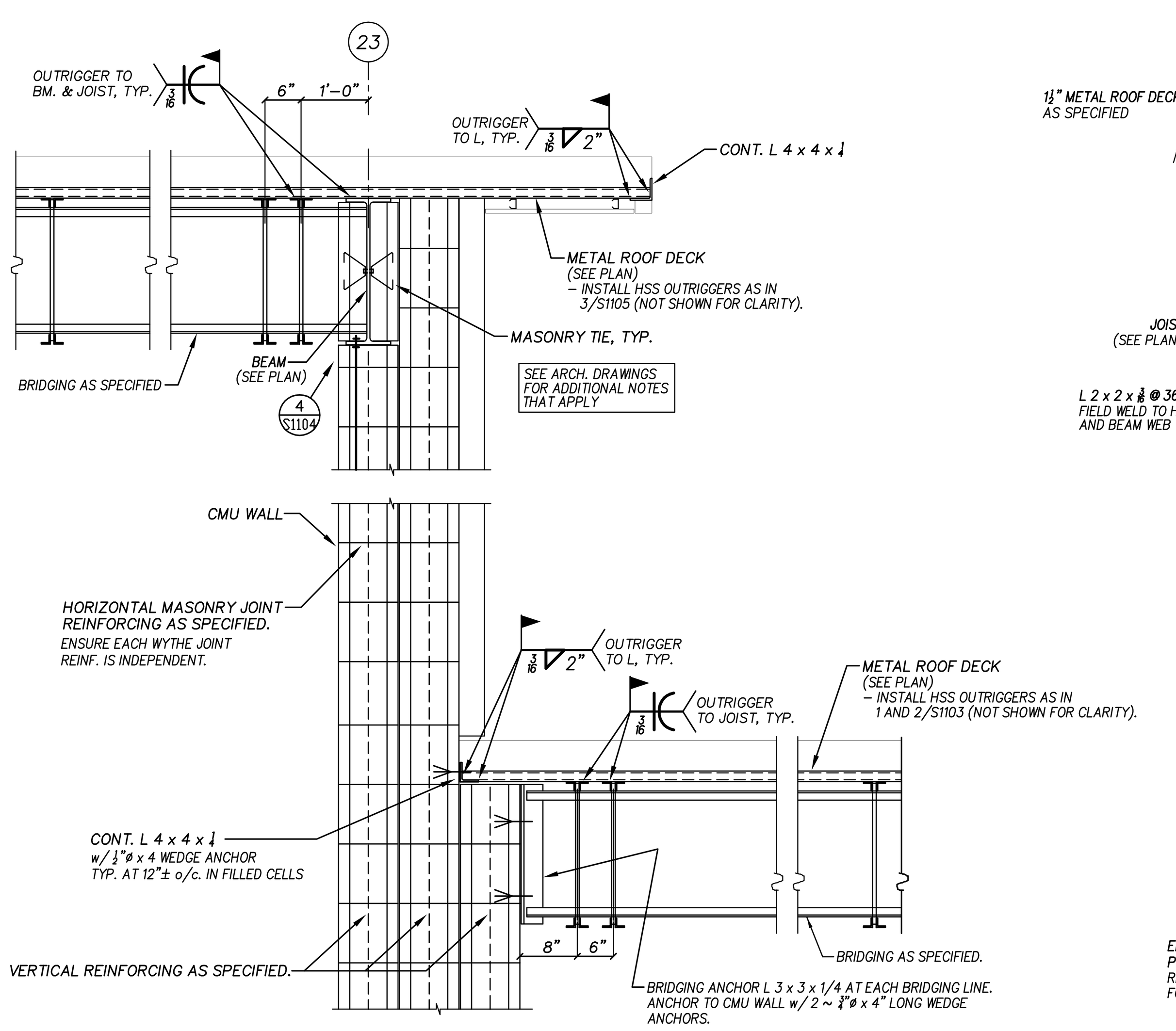
3 LOW ROOF EDGE TRANSITION
NO SCALE



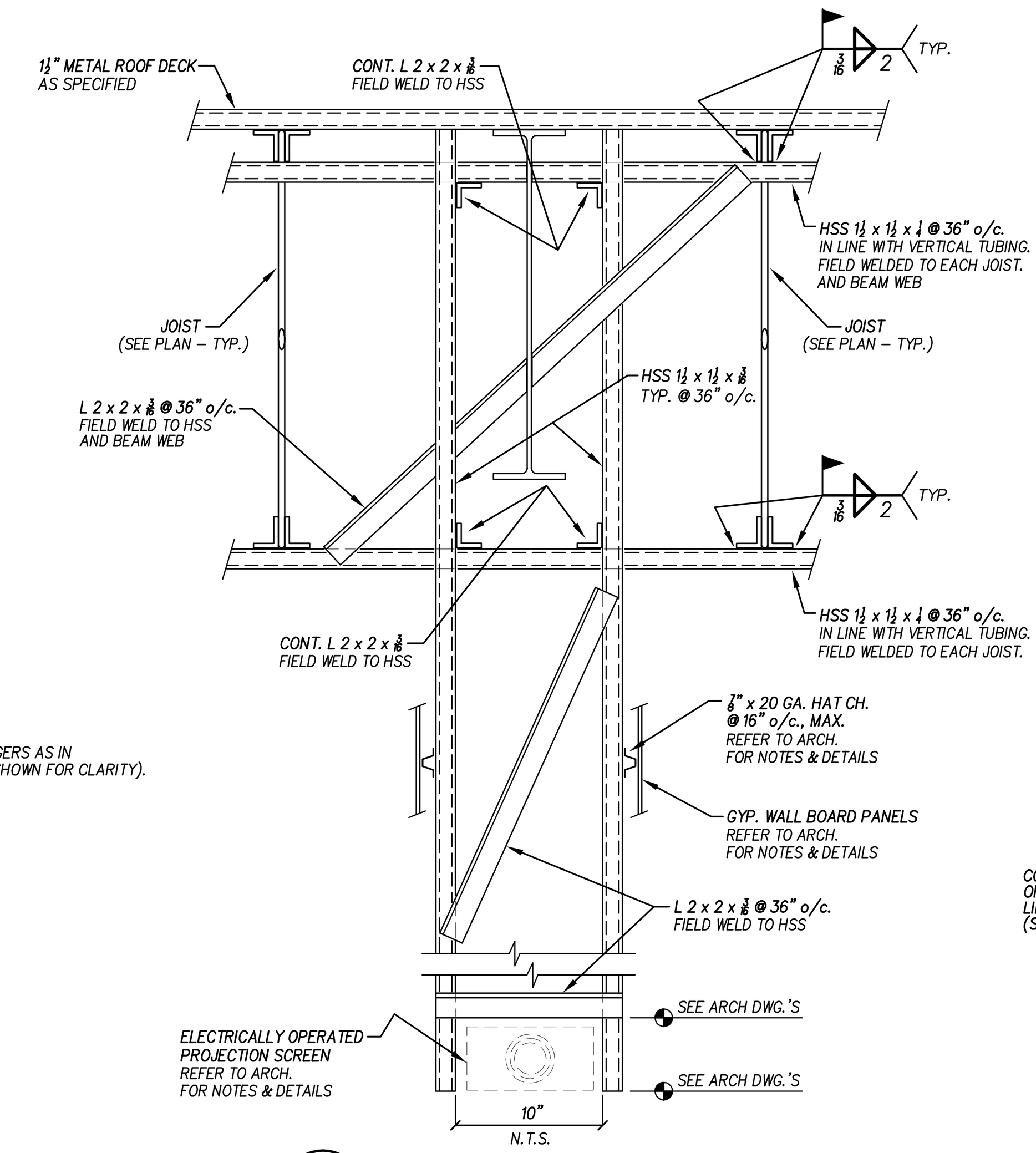
4 HIGH TOWER SECTION
NO SCALE



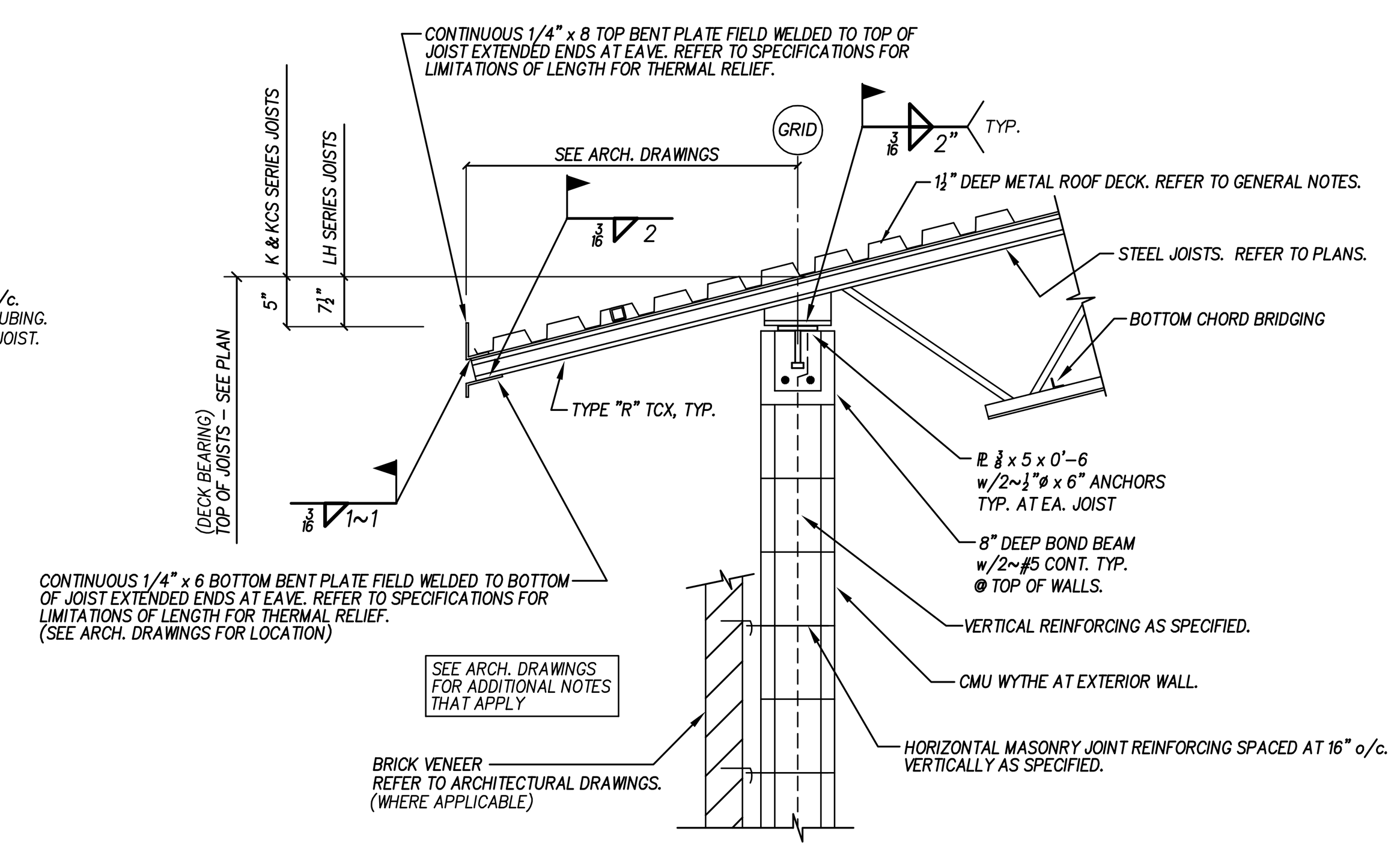
5 SECTION AT TOWER DORMER
NO SCALE
– SEE 4/S1105 FOR ADDITIONAL NOTES THAT APPLY



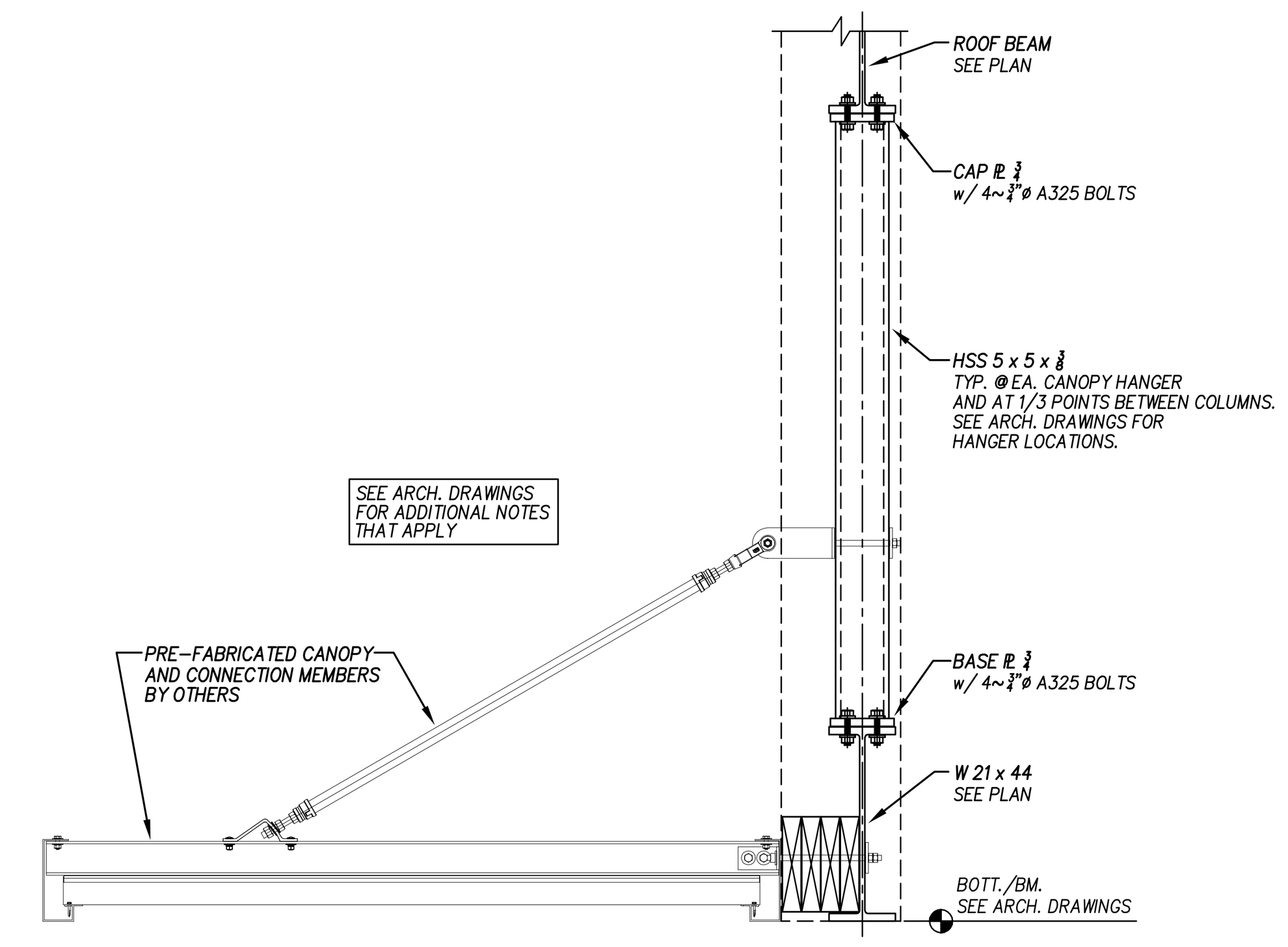
6 HIGH AND LOW ROOF AT GYMNASIUM
NO SCALE



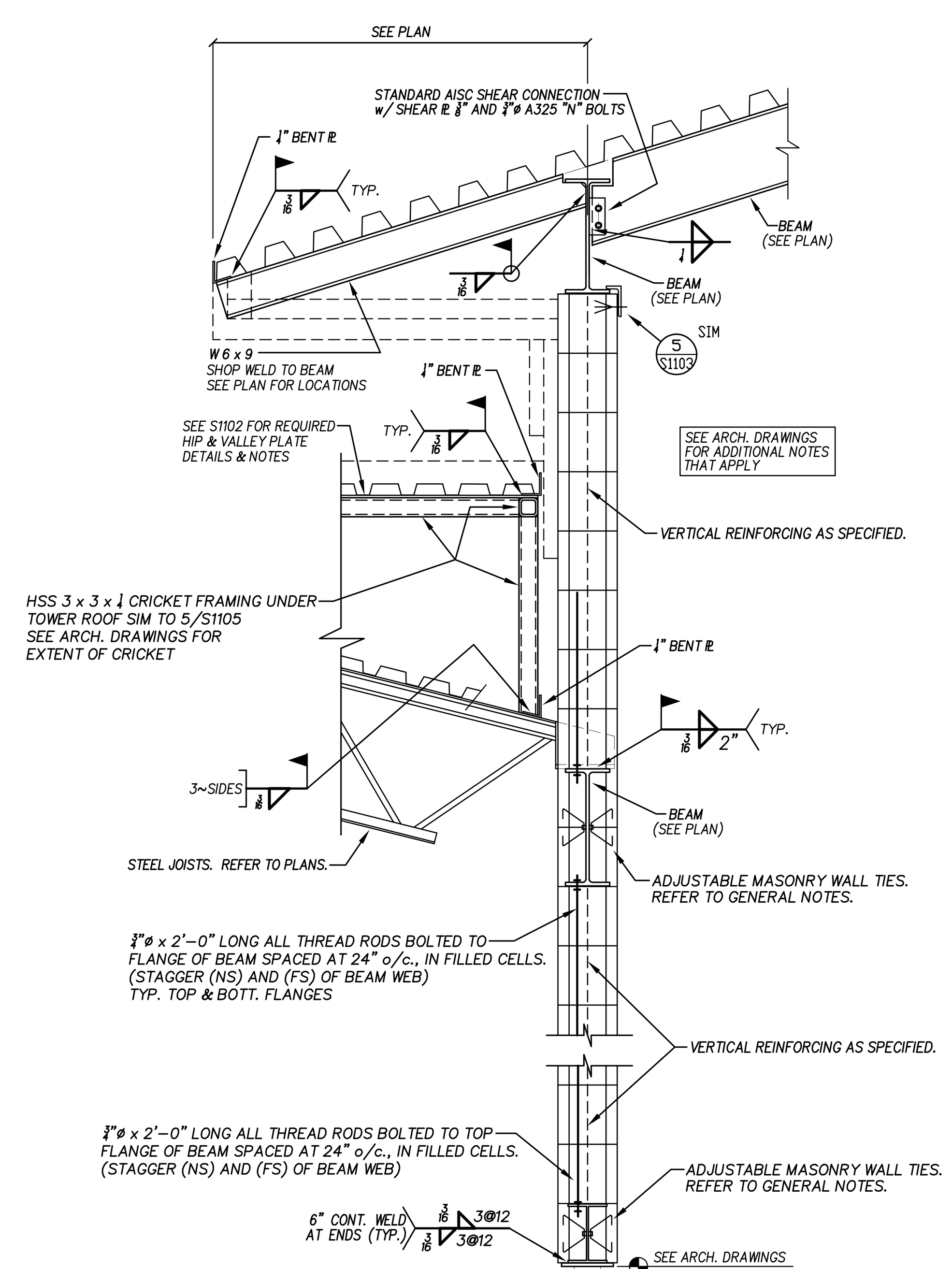
7 PROCENIUM FRAMING DETAIL
NO SCALE



8 TYPICAL EAVE DETAIL AT CMU AND BRICK VENEER SIDEWALLS AT EMBED PLATE
NO SCALE
– JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.



9 SECTION AT PRE-FAB CANOPY
NO SCALE



10 TOWER CRICKET SECTION
NO SCALE

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G E N E R A L   N O T E S

FOUNDATIONS

1. SOIL DESIGN NET BEARING VALUE SHALL BE 2000 PSF, U.O.N. TO BE FIELD VERIFIED BY THE GEOTECHNICAL TESTING LABORATORY AT THE TIME OF CONSTRUCTION. 2000 PSF ALLOWABLE NET BEARING PRESSURE, U.O.N. IS CONSIDERED TO BE BEARING SOIL THAT IS EITHER UNIMPROVED NATURAL SOIL STRATA OR SHALLOW IMPROVED BEARING SOIL STRATA. REFER TO THE 2000 PSF, U.O.N. COLUMN FOOTING SCHEDULE FOR USE WITH THIS CRITERIA.
2. CONTINUOUS WALL FOOTINGS SHALL BE PLACED UPON BEARING SOIL THAT IS EITHER UNIMPROVED OR IMPROVED TO THE SAME ALLOWABLE NET BEARING VALUE AS THE CONTIGUOUS COLUMN FOOTINGS.
3. SITE CONDITIONS MAY DICTATE THAT THE SOIL IMPROVEMENT MEASURES BE TRANSITIONED OUT FROM THE AREAS OF UNIMPROVED OR SHALLOW IMPROVED DEPTHS. SUCH TRANSITIONING SHALL BE AS DIRECTED BY THE GEOTECHNICAL LABORATORY AT THE TIME OF CONSTRUCTION.
4. SITE PREPARATION AND PLACEMENT OF ENGINEERED COMPACTED FILL AND THE INTERMEDIATE SOIL IMPROVEMENT WORKS SHALL BE MONITORED BY THE GEOTECHNICAL LABORATORY. ALL NECESSARY PREPARATORY STRIPPING, CUTTING, PROOF ROLLING, AND FILLING AND IMPROVEMENT OPERATIONS SHALL BE SO MONITORED.
5. ALL FILL INSIDE THE BUILDING AND TO 10' OUTSIDE THE BUILDING INCLUDING RAMPS, STOOPS, AND STEPS SHALL BE CLEAN SELECT MATERIAL FREE OF DELETERIOUS MATERIALS SUCH AS WOOD, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIALS. PLACE FILL TO BE COMPACTED IN 9" LIFTS, MEASURED LOOSE, AND COMPACT EACH LIFT TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698. COMPACT THE TOP THREE 9" LIFTS TO 100% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698.
6. ALL FOOTING EXCAVATIONS SHALL BE APPROVED BY THE GEOTECHNICAL LABORATORY PRIOR TO PLACING FOOTING CONCRETE.
7. FOOTING ELEVATIONS SHALL NOT BE RAISED OR LOWERED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.
8. FOOTINGS MAY BE CARRIED TO LOWER ELEVATION WHERE DIRECTED BY THE ARCHITECT.
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATIONS OF MASONRY WALLS AND PARTITIONS THAT REQUIRE CONTINUOUS WALL FOOTINGS AND/OR MONOLITHIC THICKENED SLAB FOOTINGS FOR SUPPORT.
10. CONSTRUCTION JOINTS IN CONTINUOUS WALL FOOTINGS SHALL BE MADE MIDWAY BETWEEN COLUMNS AND AT LEAST 4' FROM THE INTERSECTION OF ANOTHER WALL FOOTING.
11. COLUMN FOOTINGS IN LINE WITH WALL FOOTINGS SHALL BE PLACED MONOLITHICALLY AND FLUSH TOP WITH THE CONTIGUOUS WALLS FOOTINGS.
12. STEPPED WALL FOOTINGS IF REQUIRED SHALL START OR TERMINATE AT LEAST 4' FROM A COLUMN FOOTING, WALL CORNER, OR WALL INTERSECTIONS.
13. AT LOCATIONS WHERE SLAB BLOCK OUTS ARE REQUIRED AWAITING THE STEEL COLUMN ERECTION PROVIDE FOR A SLAB TURNDOWN OF 8" MINIMUM CONCRETE THICKNESS AROUND THE BLOCKOUT TO RETAIN THE SUPPORTING SOIL UNDER THE SLAB. AT THE CONTRACTORS OPTION THIS SOIL RETAINING TURNDOWN MAY BE CONSTRUCTED WITH 8" CMU FILLED 100% SOLID WITH 3000 PSI CONCRETE.
14. FOUNDATIONS SHALL BE PLACED ONLY ON APPROVED NATURAL UNDISTURBED SOIL STRATA OR ON PROPERLY PLACED ENGINEERED CONTROLLED COMPACTED IMPROVED FILL UNDER THE SUPERVISION OF THE GEOTECHNICAL LABORATORY.

CONCRETE

1. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   - A) FOOTINGS AND PEDESTALS – 3000 PSI
   - B) INTERIOR SLABS ON GRADE – 3000 PSI
   - C) FILL FOR MASONRY UNITS – 3000 PSI
   - D) OTHER INTERIOR CONCRETE – 3000 PSI
   - E) EXPOSED EXTERIOR CONCRETE – 4000 PSI
   - F) SUSPENDED SLABS ON METAL DECK – 3000 PSI
   - G) MASONRY CAVITY WALL FILL – 3000 KSI
2. CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL BE REGULAR STONE CONCRETE.
3. CONCRETE FOR SLABS SUSPENDED ON COMPOSITE METAL DECK SHALL BE STRUCTURAL LIGHTWEIGHT CONCRETE WITH MAXIMUM AIR UNIT WEIGHT OF 120 PCF.
4. CONCRETE FOR FILL IN CONCRETE MASONRY BLOCK CELLS, BOND BEAMS, LINTEL BLOCKS, AND CAVITY WALL FILL BELOW FLOOR IN EXTERIOR WALLS AND OTHER MASONRY UNITS SHALL BE FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE. AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.
5. UNLESS SELF CONSOLIDATING CONCRETE GROUT IS UTILIZED THE CONCRETE MIX FOR CONCRETE MASONRY BLOCK AND CAVITY WALL GROUT SHALL BE PROPORTIONED AT THE PLANT FOR A HIGH SLUMP OF 8" TO 11" TO FACILITATE PLACEMENT AND TO ACCOMMODATE WATER ABSORPTION BY THE MASONRY UNITS. HIGH SLUMP SHALL BE ACHIEVED WHILE KEEPING THE WATER CEMENT RATIO IN THE NORMAL RANGE FOR A 3000 PSI MIX. THIS WILL REQUIRE ADDITIONAL CEMENT IN THE BATCH TO GO ALONG WITH THE WATER ADDED FOR THE SLUMP REQUIREMENT.
6. MORTAR MIX SHALL NOT BE ALLOWED FOR ANY BLOCK MASONRY FILL REQUIREMENTS.
7. CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE 5% (+/– 1%) AIR ENTRAINMENT.
8. CONCRETE NOT PERMANENTLY EXPOSED TO THE WEATHER SHALL NOT HAVE AIR ADDED BY ENTRAINMENT. THIS REQUIREMENT SHALL BE VERIFIED AND REPORTED BY LABORATORY TESTS.
9. ALL CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318.
10. OBSERVE ALL AND STRICTLY FOLLOW ALL ACI 305 AND 306 REQUIREMENTS RESPECTIVELY FOR PROTECTION OF CONCRETE IN HOT AND COLD WEATHER.
11. ALL CONCRETE SLAB WORK SHALL BE PROPERLY CURED IN CONFORMANCE WITH ACI 308. EITHER WATER CURING, WATERPROOF PAPER CURING, PLASTIC SHEET, OR SPRAY–ON SEALING MATERIALS METHOD MAY BE USED PROVIDED THAT THE METHOD CHOSEN HAS NO DETRIMENTAL EFFECT ON THE FINAL FINISH SPECIFIED FOR THE RESPECTIVE AREAS. THE PROPOSED CURING METHOD TO BE USED SHALL BE APPROVED BY THE ARCHITECT.
12. BUILDING SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS.
13. BUILDING SLABS ON COMPOSITE METAL FLOOR DECK IF REQUIRED AT THE UTILITY PLATFORM AREAS SHALL BE 6" MINIMUM THICKNESS NECESSARY FOR ACHIEVING THE REQUIRED 1 HOUR FIRE SEPARATION RATING.
14. PLACE 1/4" PRE–FORMED, IMPREGNATED EXPANSION JOINT FILLER FULL DEPTH OF SLAB ON GRADE AT ABUTTING WALL SURFACES UNLESS OTHERWISE NOTED.
15. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE IN LOCATIONS AS SHOWN ON FOUNDATION PLAN OR AT OTHER LOCATIONS APPROVED OR REQUIRED BY THE ARCHITECT. BUT SPACING OF JOINTS SHALL NOT EXCEED 12' IN ANY DIRECTION.
16. THE TYPE OF JOINT USED WHETHER CONTROL JOINT OR CONSTRUCTION JOINT IS THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
17. SAW JOINTS AT CONTROL JOINTS IN THE CONCRETE SLABS SHALL BE MADE AS SOON AS THE CONCRETE HAS SUFFICIENT STRENGTH TO PREVENT SPALLING OF THE JOINT DUE TO THE ACTION OF THE SAW, BUT IN NO CASE GREATER THAN 4 HOURS AFTER INITIAL PLACEMENT OF THE CONCRETE.
18. SLAB JOINT FILLER SHALL BE OF THE TYPE COMPATIBLE WITH THE FINAL FLOOR COVERING USED. SLAB JOINTS UNDER PERMANENT PARTITIONS OR CASE WORK NEED NOT BE FILLED.
19. CHAMFER EXPOSED EDGES AND CORNERS OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
20. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FLOOR FINAL FINISHES AND PROVIDE NECESSARY SLOPES, DEPRESSIONS, AND SLAB FINISH AS REQUIRED TO ACCEPT THE SPECIFIED FINAL FINISHES.
21. PROVIDE A 2 17/32" SLAB DEPRESSION IN THE AREAS REQUIRING THE PLAY FLOOR. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF THE PLAY FLOOR. CONTRACTOR SHALL VERIFY/COORDINATE REQUIRED SLAB DEPRESSION FOR PLAY FLOOR WITH ARCH. ROOM FINISH SCHEDULE.
22. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED RAMP LOCATIONS AND DIMENSIONS, TYPICAL. SEE ARCHITECTURAL DRAWINGS FOR ALL POURED STAIR LOCATIONS AND DIMENSIONS, TYPICAL. CONSTRUCT ALL POURED RAMPS AND STAIRS IN ACCORDANCE WITH STRUCTURAL SECTIONS 6 & 8/S1101 AND ARCH. DRAWINGS.

REINFORCING STEEL

1. BARS SHALL BE ROLLED FROM NEW BILLET–STEEL CONFORMING TO "SPECIFICATION FOR DEFORMED BILLET–STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM A615, GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
3. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
4. REINFORCING STEEL SHALL BE IN PLACE AND REVIEWED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.
5. PROVIDE WWF IN FLAT SHEETS. ROLLED WWF WILL NOT BE ACCEPTED ON THIS PROJECT.
6. LAP ALL WWF END SPLICES TWO FULL MESHES AND ALL SIDE LAP SPLICES ONE FULL MESH AND TIE OFF WITH STANDARD TIE WIRES.
7. PLACE ONE LAYER OF 6 x 6 – W2.9 x W2.9 WWF AT 3/4" CLEAR FROM TOP OF ELEVATED SLABS ON COMPOSITE METAL DECK AT SECOND FLOOR AND UTILITY PLATFORM SLABS. TIE WWF TO REINFORCING STEEL OVER STEEL BEAMS TO PREVENT MOVEMENT WHILE PLACING THE FRESH CONCRETE. IN ADDITION PROVIDE ONE LINE OF CONTINUOUS SLAB BOLSTERS AT MID SPAN OF ALL ELEVATED SLABS TO SUPPORT WWF IN THE PROPER POSITION AND TIE OFF TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT OPERATIONS.
8. FABRICATE REBARS IN CONTINUOUS FOOTINGS, WALLS, BOND BEAMS, AND MONOLITHIC TURNED DOWN SLABS TO LONGEST PRACTICAL LENGTHS.
9. LAP HORIZONTAL REBAR SPLICES A MINIMUM OF 40 BAR DIAMETERS BUT A MINIMUM OF 24" UNLESS OTHERWISE NOTED. PLAN REBAR SPLICES TO OCCUR AT POINTS OF MINIMUM STRESS UNLESS OTHERWISE SHOWN.
10. LAP VERTICAL REBAR SPLICES INCLUDING DOWELS FROM FOOTINGS IN CMU WALLS A MINIMUM OF 60 BAR DIAMETERS.
11. BARS IN INDIVIDUAL COLUMN SPREAD FOOTINGS SHALL NOT BE SPLICED.
12. TERMINATE CONTINUOUS BARS IN WALL FOOTINGS, WALLS, BOND BEAMS AND TURNED DOWN SLABS, WITH A STANDARD 90 DEGREE HOOK AT DISCONTINUOUS ENDS, CORNERS, AND INTERSECTIONS.
13. AT LOCATIONS REQUIRING VERTICAL DOWELS INTO FOOTINGS AND ELEVATED SLABS, THE PLACEMENT OF THE DOWELS SHALL MATCH THE SIZE AND CLOSELY MATCH THE LOCATION OF THE VERTICAL WALL REBARS REQUIRING THE DOWELS.
14. ALL DOWELS SHALL TERMINATE IN THE FOOTING OR ELEVATED SLAB WITH A STANDARD ACI 90 OR 180 DEGREE HOOK AS APPROPRIATE UNLESS SPECIFICALLY SHOWN OTHERWISE. DOWELS SHALL LAP THEIR MATCHING VERTICAL REBAR 60 BAR DIAMETERS.
15. PROVIDE THE FOLLOWING CLEARANCES FROM REBARS TO CONCRETE FACE UNLESS OTHERWISE NOTED ON DRAWINGS:
   - A) EARTH FORMS – 3"
   - B) WALL FORMS – 2"
   - C) TOP OF SLAB – 3/4"
   - D) SLAB FORMS – 1"
   - E) CMU WYTHE – CENTER BARS IN CENTER OF WYTHE
16. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" o/c. FOR EXTERIOR MASONRY WALLS.
17. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #5 VERTICAL REINFORCING AT 24" o/c. FOR INTERIOR MASONRY WALLS.
18. REFER TO "CONCRETE AND BRICK MASONRY" SECTION BELOW FOR SPECIAL REINFORCING FOR THE 12" AND 8" CMU FIRE WALLS.
19. PROVIDE INDUSTRY APPROVED REBAR CENTERING DEVICES FOR HOLDING VERTICAL REINFORCING BARS SECURELY IN THE CENTER OF THE CMU WYTHE.
20. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

METAL ROOF DECK

1. METAL ROOF DECK ON CONNECTORS AND ENTRANCE VESTIBULES SHALL BE 3" DEEP, 22 GAGE, TYPE "N" , GALVANIZED STEEL ROOF DECK UNITS WITH 24" COVER, CONFORMING TO STEEL DECK INSTITUTE (SDI) STANDARDS.
2. METAL ROOF DECK ON OPEN WEB STEEL JOISTS SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB PRIMED DECK UNITS WITH 36" COVER CONFORMING TO STEEL DECK INSTITUTE (SDI) STANDARDS.
3. ALL 3" DEEP METAL ROOF DECKING SHALL BE WELDED TO STEEL SUPPORTING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT 8" o/c. AT ALL END LAPS AND ALL INTERMEDIATE SUPPORTS, EXCEPT THAT AT THE WELD SPACING SHALL BE DECREASED TO 4" o/c. AT CONTINUOUS DECK EDGE SUPPORTS AT LOW EAVES, GABLE EDGES, AND RIDGES. AT HIPS AND VALLEYS WHERE DECK UNITS ARE CUT ON A BIAS PROVIDE 2 – 3/4" DIAMETER PUDDLE WELDS PER FLUTE.
4. SIDE LAPS FOR ALL 3" METAL ROOF DECK UNITS SHALL BE MECHANICALLY FASTENED AT 12" MAXIMUM o/c. WITH #12 SELF DRILLING TEK SCREWS.
5. 1 1/2" DEEP METAL ROOF DECKING SHALL BE WELDED TO STEEL SUPPORTING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT 12" o/c. AT ALL END LAPS AND ALL INTERMEDIATE SUPPORTS, EXCEPT THAT AT THE WELD SPACING SHALL BE DECREASED TO 6" o/c. WITHIN 12' OF LOW EAVES, RIDGES, AND GABLE ENDS. THE WELD SPACING SHALL BE DECREASED TO 6" o/c. AT CONTINUOUS DECK EDGE SUPPORTS AT LOW EAVES AND RIDGES. AT HIPS AND VALLEYS WHERE DECK UNITS ARE CUT ON A BIAS PROVIDE 2 – 3/4" DIAMETER PUDDLE WELDS PER FLUTE.
6. SIDE LAPS FOR ALL 1 1/2" METAL ROOF DECK UNITS SHALL BE MECHANICALLY FASTENED AT 12" o/c. WITH #10 SELF DRILLING TEK SCREWS.
7. ALL DECKING UNITS SHALL BE LAID OUT BY THE SUPPLIER TO A PATTERN THAT PROVIDES FOR A MINIMUM THREE SPAN CONDITION AND SHALL BE LAPPED 3" MINIMUM AT END JOINTS OVER SUPPORTS.
8. DECK UNITS SHALL BE SECURELY FASTENED IN STRAIGHT LINES AND TO TRUE PLANES TO ACCEPT THE SPECIFIED ROOFING SYSTEMS. UNEVEN, LOOSE, BENT, OR OTHERWISE BADLY INSTALLED DECK WILL BE REJECTED AND SHALL BE REPLACED AT NO ADDITIONAL COST IF SO DIRECTED BY THE ARCHITECT.
9. PROVIDE ALL NECESSARY ACCESSORIES, SUCH AS CONTINUOUS RIDGE, HIP, VALLEY, EAVE, RAKE CLOSURE PLATES, SUMP PANS, ANOTHER DECK RELATED ACCESSORIES OF PROPER SIZE AND SHAPE TO PROVIDE A COMPLETE FIRST CLASS WEATHERTIGHT JOB. MINIMUM WIDTH OF THESE CLOSURE PLATES SHALL BE 8" AND SHALL BE 22 GAGE G60 GALVANIZED MATERIAL AND SHALL BE WELDED WITH PAIRS OF 3/4" DIAMETER PUDDLE WELDS SPACED AT 6" o/c. OR FASTENED INTO PLACE WITH PAIRS OF #12 SDST TEK SCREWS SPACED AT 6" o/c.
10. PROPER CARE SHALL BE TAKEN BY THE ERECTOR SO AS NOT TO BURN HOLES IN DECK OR SUPPORTING MEMBERS. BURNED HOLES OR DAMAGES SUPPORTING MEMBERS SHALL BE CAUSE FOR REJECTION. REJECTED WORK SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST IF SO DIRECTED BY THE ARCHITECT.
11. TOUCH UP WELDS AND ABRASIONS WITH ZINC RICH PAINT.
12. METAL DECKING SHALL BE INSPECTED BY ARCHITECT AND ROOFING INSTALLER PRIOR TO COVERING.
13. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

COMPOSITE METAL DECK

1. COMPOSITE METAL DECK FOR SUSPENDED FLOOR SLABS BE 3" DEEP, 16 GAGE, GALVANIZED COMPOSITE DECK TYPE 3 VLI AS MANUFACTURED BY VULCRAFT OR AN APPROVED EQUAL WITH ALL NECESSARY CLOSURES, FILLERS, AND OTHER ACCESSORIES TO GIVE A FIRST CLASS WORKMANLIKE INSTALLATION.
2. ONE LINE OF ADJUSTABLE HEIGHT TEMPORARY SHORING MAY BE REQUIRED IN SOME INSTANCES AT MIDSPAN. CONSULT WITH MANUFACTURER FOR HIS REQUIREMENTS ON TEMPORARY SHORING. THE HEIGHT OF THE SHORING IF USED SHALL BE CAREFULLY CONTROLLED TO KEEP THE SHORING 1/4" BELOW THE LEVEL OF THE BOTTOM OF THE BARE UNLOADED DECK SO THAT THE DECK IS NEVER IN A "CAMBERED" POSITION. THE WEIGHT OF THE FRESH CONCRETE WILL "SETTLE" THE DECK DOWN ONTO THE SHORING MEMBER AS THE CONCRETE IS BEING PLACED.
3. TO MINIMIZE FRESH CONCRETE LEAKAGE AT SIDE LAPS, PLAN CONCRETE PLACEMENT SEQUENCE SO THAT THE WEIGHT OF THE FRESH CONCRETE IS PLACED ON THE TOPMOST SHEET OF DECK FIRST.
4. DECK SHALL BE LAID OUT FOR A MINIMUM 3 1/2" DECK BEARING AT END SUPPORTS.
5. FASTEN SIDE LAPS AT 24" o/c. WITH #12 SDST TEK SCREWS.
6. WELD DECK TO STEEL SUPPORTS OR MASONRY EMBED PLATES WITH 2 – 3/4" DIAMETER PUDDLE WELDS PER FLUTE.
7. SUBMIT SHOP DRAWINGS OF COMPOSITE FOR APPROVAL PRIOR TO FABRICATION.

STEEL JOISTS AND JOIST GIRDERS

1. STEEL JOISTS SHALL CONFORM TO STEEL JOIST INSTITUTE (SJI) "K", "KCS", "LH" SERIES JOISTS AND ACCESSORIES.
2. JOIST GIRDERS SHALL CONFORM TO SJI "G" SERIES GIRDERS AND ACCESSORIES.
3. BEARING DEPTH OF SLOPING "K" AND "KCS" SERIES JOISTS SHALL BE 5" UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
4. BEARING DEPTH OF SLOPING "LH" SERIES JOISTS SHALL BE 7 1/2" UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
5. BEARING DEPTH OF "G" SERIES GIRDERS SHALL BE 7 1/2" MINIMUM. PROVIDE DEEPER BEARING DEPTHS AS REQUIRED.
6. REFER TO PLANS FOR OTHER SPECIAL JOIST END DEPTH BEARING CONDITIONS.
7. JOIST MANUFACTURER SHALL COORDINATE AND CONFIRM WITH THE STEEL FABRICATOR ALL SPECIAL BEARING CONDITIONS FOR JOIST AND JOIST GIRDER SYSTEMS.
8. "K" AND "KCS" SERIES JOISTS SHALL BEAR A MINIMUM OF 2 1/2" ON STEEL SUPPORTS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. "LH" SERIES JOISTS SHALL BEAR A MINIMUM OF 4" ON STEEL SUPPORTS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
10. "G" SERIES JOIST GIRDERS SHALL BEAR A MINIMUM OF 6" ON STEEL SUPPORTS UNLESS OTHERWISE NOTED.
11. JOISTS BEARING ONLY ON ONE SIDE OF A STEEL SUPPORT SHALL BEAR A MINIMUM OF 2" PAST THE CENTERLINE OF THAT SUPPORT UNLESS OTHERWISE NOTED.
12. JOIST GIRDERS BEARING ONLY ON ONE SIDE OF A STEEL SUPPORT SHALL BEAR THE FULL LENGTH OF THE SUPPORT UNLESS OTHERWISE NOTED.
13. THE BOTTOM CHORD STRUTS OF JOISTS OR JOIST GIRDERS SHALL NOT BE RIGIDLY FASTENED TO MASONRY WALLS UNLESS SPECIFICALLY NOTED TO DO SO ON THE DRAWINGS.
14. BOTTOM CHORD STRUTS OF JOISTS WHERE REQUIRED SHALL BE RIGIDLY ATTACHED TO STEEL SUPPORTS DURING THE STEEL ERECTION PROCESS.
15. BOTTOM CHORD STRUTS OF JOIST GIRDERS SHALL NOT BE WELDED TO SUPPORTS UNTIL THE FULL DEAD LOAD OF THE ROOF DECK AND INSULATION IS IN PLACE. ROOF SUPPORTED MECHANICAL APPARATUS IS NOT INCLUDED IN THIS REQUIREMENT.
16. ALL STEEL JOISTS REQUIRED TO SJI AND OSHA BE BOLTED TO THE COLUMN OR BEAM OR JOIST GIRDER SHALL BE BOLTED WITH 2 – 3/4" DIAMETER A325 BOLTS. DO NOT UTILIZE 1/2" DIAMETER BOLTS FOR THIS PURPOSE.
17. BOLTS IN JOIST GIRDER TO COLUMN CONNECTIONS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY THE AISC.
18. BOLTS IN JOIST TO JOIST GIRDER CONNECTIONS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY THE AISC.
19. ADDITIONALLY THE BOLTED ENDS OF JOIST CONNECTIONS SHALL BE FIELD WELDED IN ADDITION TO THE BOLTING REQUIREMENTS AS NOTED ON THE DRAWINGS.
20. PROVIDE FIELD BOLTED CONNECTIONS UTILIZING 3/4" DIAMETER A325 BOLTS FOR COMMON JOISTS TO JOIST GIRDER CONNECTIONS AS REQUIRED FOR ERECTION BY SJI AND OSHA REGULATIONS. THESE CONNECTIONS SHALL BE FIELD WELDED IN ADDITION TO THE ERECTION BOLTING.
21. THE CAPACITY OF ANY BOLTS FOUND MISSING IN THE JOIST AND JOIST GIRDER CONNECTIONS SHALL BE MADE UP BY PROPER FIELD WELDING TO PROVIDE EQUAL STRENGTH OF THE MISSING BOLTS AS DIRECTED BY THE INSPECTING TESTING LABORATORY.
22. BOLT TIGHTENING AND FIELD WELDING OF CONNECTIONS SHALL BE VERIFIED AND REPORTED BY THE TESTING LAB.
23. BOTTOM CHORDS OF JOISTS DESIGNATED ON PLANS WITH A "BCX" SHALL BE RIGIDLY ATTACHED TO THE INDICATED JOISTS AND STEEL SUPPORTS DURING THE STEEL ERECTION PROCESS WITH FIELD WELDING. THESE FIELD WELDS SHALL BE OF SIZE AND LENGTH AS REQUIRED FOR 4 KIP UNFACTORED AXIAL LOAD. THIS IS A WELDING REQUIREMENT AND DOES AFFECT THE JOIST SUPPLIER'S DESIGN OF THE JOIST.
24. PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.
25. FIELD BOLTED DIAGONAL BRIDGING AS REQUIRED BY SJI SHALL BE BOLTED TO JOISTS AND AT INTERSECTIONS WITH 1/2" DIAMETER A307 MACHINE BOLTS. THESE BRIDGING CONNECTIONS DO NOT REQUIRE FIELD WELDING IN ADDITION TO BOLTING. MISSING OR MISALIGNED BOLTS SHALL BE COMPENSATED FOR FULLY BY FIELD WELDING. DO NOT UTILIZE 3/8" BOLTS FOR THIS REQUIREMENT.
26. PROPER ALLOWANCE FOR EXTRA BOTTOM CHORD BRIDGING WHERE REQUIRED FOR UPLIFT SHALL BE MADE BY THE JOIST FABRICATOR.
27. ALL BRIDGING SHALL BE WELDED TO TOP AND BOTTOM CHORDS AT ALL POINTS OF CONTACT WITH WELDS OF SUFFICIENT SIZE AND CONFIGURATION TO DEVELOP 2 KIPS MINIMUM FORCE. ANY LARGER FORCES THAT MAY BE REQUIRED BY SJI SHALL BE DESIGNATED ON THE JOIST SHOP DRAWINGS TO BE PROVIDED BY THE JOIST ERECTOR.
28. REFER TO DRAWINGS FOR ADDITIONAL FIELD WELDED DIAGONAL BRIDGING AT ENDS OF BRIDGING RUNS.
29. ALL JOISTS SHALL BE FIELD WELDED TO THE STEEL SUPPORT BEAM, COLUMN, OR BEARING PLATE WITH A 3/16" x 2" FILLET WELD OR EQUIVALENT FIELD WELD BOTH SIDES OF EACH JOIST SEAT AT EACH END.
30. ALL JOIST CHORD MEMBERS SHALL BE ANGLES.
31. BRIDGING SHALL BE IN PLACE, AND WELDED FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALLING THE METAL ROOF DECK.
32. JOISTS AND ACCESSORIES SHALL RECEIVE ONE DIP COAT OF STANDARD GREY OXIDE PAINT WHERE PERMANENTLY EXPOSED TO VIEW. ALL PRIMERS SHALL BE COMPATIBLE WITH FIREPROOFING AND FINAL FINISHES SPECIFIED.
33. STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THEIR FABRICATOR FOR A NET UPLIFT OF NOT LESS THAN 33 PSF. ONE THIRD INCREASE IN ALLOWABLE STRESS MAY <u>NOT</u> BE UTILIZED FOR THIS LOAD CASE.
34. JOIST GIRDERS SHALL BE DESIGNED BY THE JOIST FABRICATOR WITH SELF WEIGHT OF THE GIRDER ADDED TO THE LOADS GIVEN ON THE CONTRACT DRAWINGS.
35. PROPER CARE SHALL BE EXERCISED IN THE ERECTION AND ALL FIELD WELDING WORKS TO PREVENT DAMAGE TO THE JOIST MEMBERS. ANY JOIST FOUND TO BE DAMAGED SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ARCHITECT.
36. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

LIGHT GAGE METAL FRAMING

1. LIGHT GAGE METAL STUD LOCATIONS SHALL BE AS NOTED ON THE DRAWINGS.
2. ALL MATERIAL SHALL BE GALVANIZED AND ALL SCREWS SHALL BE SUITABLE GRADE STAINLESS STEEL OR ZINC PLATED.
3. ALL WELDS AND ABRASIONS IF ANY SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
4. LIGHT GAGE HEADERS OVER DOOR AND WINDOW OPENINGS IN EXTERIOR WALLS SHALL BE COMPOSED OF MULTIPLE MEMBERS AS NOTED ON THE ON THE DRAWINGS.
5. ALL MULTIPLE MEMBERS SHALL BE INTERCONNECTED SO AS TO ACT AS A COMPOSITE UNIT. ALL INDIVIDUAL MEMBERS COMPRISING A MULTIPLE MEMBER SHALL BE FULL LENGTH UNSPLICED MATERIAL.
6. ALL CONNECTIONS SHALL BE SCREWED OR WELDED TOGETHER BOTH SIDES WITH SUFFICIENT WELDS OR SCREWS TO SAFELY SUPPORT THE LOADS TO BE IMPOSED ON THE CONNECTIONS.
7. ALL CONNECTIONS SHALL BE ACCOMPLISHED WITH STANDARD ACCESSORY COMPONENTS SUPPLIED FOR THAT PURPOSE.
8. ALL CONNECTION DESIGNS FOR THE LIGHT GAGE FRAMING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
9. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR METAL STUD PARTITION WALL REQUIREMENTS. PROVIDE BRACING FOR TOPS OF ALL PARTITIONS TO MAIN STRUCTURE FOR PROPER PARTITION STABILITY.

GROUT

1. PROVIDE NON–SHRINK, NON–METALLIC PRE–MIXED GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARING PLATES. GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 7,000 PSI AT 7 DAYS.

CONCRETE AND BRICK MASONRY

1. CONCRETE MASONRY UNITS SHALL BE LIGHTWEIGHT OR BLENDED LIGHTWEIGHT UNITS CONFORMING TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF 1900 PSI MINIMUM TESTED IN ACCORDANCE WITH ASTM C140.
2. BRICK VENEER UNIT SHALL BE FULLY FIRED VITRIFIED CLAY UNITS AS SELECTED BY THE ARCHITECT.
3. ALL MORTAR SHALL BE TYPE "S" PER PROPORTION SPECIFICATION ASTM C270.
4. CONCRETE MASONRY DESIGN f'm = 1500 PSI.
5. WALLS SHALL BE ACCURATELY LAID OUT AND CONSTRUCTED SO THAT NO WALL VARIES MORE THAN 1/4" FROM ITS DESIGNATED LOCATION. THIS VARIATION LIMIT SHALL APPLY TO WALL PLUMBNESS AND WALL STRAIGHTNESS.
6. ALL BED AND HEAD JOINTS SHALL BE FULLY MORTARED.
7. HORIZONTAL JOINT REINFORCING FOR ALL SINGLE WYTHE CONCRETE MASONRY WALLS SHALL BE HEAVY DUTY GALVANIZED TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT BY HOHMAN AND BARNARD OR APPROVED EQUAL. HORIZONTAL JOINT REINFORCEMENT SHALL BE SPACED AT 16" o/c. MAXIMUM.
8. THE TRUSS TYPE HORIZONTAL JOINT REINFORCING SHALL HAVE 3/16" SIDE RODS AND #9 DIAGONAL CROSS RODS. LAP ALL REINFORCEMENT JOINTS A MINIMUM OF 12".
9. HORIZONTAL JOINT REINFORCING FOR ALL MULTIPLE WYTHE EXTERIOR MASONRY WALLS SHALL BE GALVANIZED HEAVY DUTY TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT BY HOHMAN AND BARNARD OR APPROVED EQUAL WITH 3/16" SIDE RODS AND #9 DIAGONAL CROSS RODS FOR THE CMU WYTHE WITH INTEGRAL DOUBLE EYE AND ADJUSTABLE 1/4" DIAMETER PINTLE BRICK TIE SPACED AT 24" o/c. HORIZONTALLY.
10. PROVIDE PREFABRICATED TEE AND CORNER PIECES AT WALL INTERSECTIONS.
11. ALL MASONRY WALLS SHALL BE BONDED AT CORNERS UNLESS OTHERWISE NOTED ON THE PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR CORNER AND TEE WALL INTERSECTION REQUIREMENTS AT MASONRY PARTITIONS AND LOAD BEARING WALLS.
12. ALL CMU WALLS SHALL BE TIED TO ALL CONTACT FACES OF ALL STEEL COLUMNS WITH FIELD WELDED HEAVY DUTY ADJUSTABLE TIES AS NOTED ON THE DRAWINGS. PROVIDE MINIMUM 97 MIL GALVANIZED STAMPED STEEL ANCHORS WITH AN INTEGRAL VERTICAL SLOT TO LIMIT HORIZONTAL MOVEMENT OF THE TRIANGULAR WIRE TIE TO 1/16". DO NOT USE THE BENT WIRE TYPE ANCHORS TO THE COLUMN.
13. ALL CMU WALLS SHALL BE FASTENED TO THE TOP AND BOTTOM FLANGES OF EMBEDDED STEEL BEAMS WITH THE 3/4" DIAMETER x 2'–0" LONG ALL THREAD ROD DOWELS SPACED AT 24" o/c. OR AS NOTED ON THE DRAWINGS.
14. PROVIDE VERTICAL CRACK CONTROL JOINTS IN ALL MASONRY WALLS AT INTERVALS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONTROL JOINT INTERVALS SHALL NOT EXCEED 32'.
15. UNLESS OTHERWISE NOTED LINTELS FOR OPENINGS UP TO 6'–4" IN CONCRETE MASONRY WALLS (CMU) SHALL BE BOND BEAM TYPE LINTELS OF PROPER LENGTH TO PROVIDE 16" BEARING EACH END.

   PROVIDE ONE – #5 CONTINUOUS TOP AND BOTTOM FOR 8" x 8" CMU BOND BEAM LINTELS FOR OPENINGS UP TO 6'–4".

   PROVIDE 2 – #5 CONTINUOUS TOP AND BOTTOM FOR 12" x 8" CMU BOND BEAM LINTELS FOR OPENINGS UP TO 6'–4".
15. WHERE A STEEL COLUMN OCCURS IN INTERIOR AND EXTERIOR CMU WALLS THAT PRECLUDE THE PROPER 16" MINIMUM BEARING LENGTH OF THE BOND BEAM TYPE LINTEL A STEEL BEAM AND PLATE LINTEL SHALL BE PROVIDED AND SHALL BE CONNECTED DIRECTLY TO THE STEEL COLUMN. REFER TO THE PLANS AND/OR LINTEL SCHEDULE FOR ALL STEEL MEMBER LINTELS.
16. ALL DOOR, WINDOW, AND OPENING JAMBS IN CMU WALLS SHALL BE FILLED WITH 3000 PSI CONCRETE FOR 2'–0" WIDTH (3 CELLS) FROM LINTEL BEARING DOWN TO FLOOR. PROVIDE ONE – #6 BAR IN EACH FILLED CELL.
17. ALL CONCRETE MASONRY UNITS BELOW FINISH MAIN FLOOR AND/OR BELOW FINISH GRADE SHALL BE 100% GROUTED SOLID WITH FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE. AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.
18. IN ADDITION IN ALL MULTIPLE WYTHE MASONRY WALLS THE CAVITY COLLAR JOINT SPACE BETWEEN WYTHES BELOW GRADE SHALL BE GROUTED SOLID AT THE TIME THE BRICK WYTHE IS BEING LAID WITH FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE. AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.
19. UNLESS OTHERWISE NOTED PROVIDE WEEP HOLES AT 32" o/c. MAXIMUM ABOVE ALL WALL FLASHING LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL FLASHING.
20. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY BRACING AND GUYING OF ALL MASONRY WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF WALLS.
21. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" o/c. FOR EXTERIOR MASONRY WALLS.
22. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #5 VERTICAL REINFORCING AT 24" o/c. FOR INTERIOR MASONRY WALLS.
23. UNLESS OTHERWISE NOTED ALL PROVIDE #6 VERTICAL REINFORCING SPACED AT 16" o/c. FULL HEIGHT FOR ALL FIREWALLS.
24. TERMINATE CONTINUOUS BARS IN WALL FOOTINGS, WALLS, BOND BEAMS AND TURNED DOWN SLABS WITH A STANDARD 90° HOOK AT DISCONTINUOUS ENDS, CORNERS, AND INTERSECTIONS. CONTINUOUS WALL FOOTING REBARS TERMINATING IN COLUMN FOOTINGS SHALL EXTEND FULLY TO THE FAR FACE OF THE COLUMN FOOTING AND TERMINATE WITH A STANDARD 90° HOOK.
25. AT LOCATIONS REQUIRING VERTICAL WALL REINFORCING, PROVIDE MATCHING DOWELS INTO FOOTINGS AND ELEVATED SLABS. THE PLACEMENT OF THE DOWELS SHALL MATCH THE SIZE AND CLOSELY MATCH THE LOCATION OF THE VERTICAL WALL REBARS REQUIRING THE DOWELS.

WOOD AND PLASTICS

1. ALL STRUCTURAL WOOD SHALL BE SYP #2 OR BETTER UNLESS OTHERWISE NOTED.
2. ALL TRUSSES SHALL BE DESIGNED BY AN ENGINEER LICENSED IN NORTH CAROLINA.
3. SUBMIT SHOP DRAWINGS FOR REVIEW BY ARCHITECT FOR APPROVAL.
4. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED, OR ISOLATED BY METAL FLASHING, IF PERMITTED BY THE ARCHITECT IN WRITING.
5. NO STUD OR FRAMING MEMBER SHALL BE CUT FOR PIPING, DUCT WORK, ETC., WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER OF RECORD.
6. DOUBLE HEADERS OR DOUBLE TRIMMERS SHALL BE PUT AROUND ALL STAIRWAYS AND OTHER OPENINGS.
7. ALL MASONRY VENEER WALL TIES, FRAMING ANCHORS, METAL TIES, HANGERS AND STRAPS SHALL BE TECO, KANT–SAG, SIMPSON STRONG–TIE, OR APPROVED EQUAL.
8. APPLY MISCELLANEOUS FASTENERS USING ONLY FACTORY APPROVED HARDENED NAILS FOR WOOD TO WOOD CONNECTIONS.
9. PROVIDE FASTENERS IN SIZES, QUANTITIES, AND SPACING REQUIRED BY FASTENER SCHEDULE IN NORTH CAROLINA STATE BUILDING CODE, LATEST RECOGNIZED EDITION.
10. ALL EXTERIOR FASTENERS SHALL BE HOT–DIPPED GALVANIZED OR STAINLESS STEEL.
11. PROVIDE FURRING AND BLOCKING AS REQUIRED FOR TOILET CABINETS, CURTAINS, TOWEL BARS, MIRROS, HAND RAILS, SPECIAL DECORATIVE ITEMS, AND INTERIOR TRIM.
12. ALL CONNECTIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

STRUCTURAL STEEL

1. STEEL WIDE FLANGE SHAPES SHALL CONFORM TO STRUCTURAL STEEL – ASTM A992, Fy = 50 KSI, Fu = 65 KSI.
   STEEL CHANNELS, PLATES, ANGLES, BARS, AND RODS – ASTM A36, Fy = 36 KSI, Fu = 58 KSI.
   PIPE COLUMNS – ASTM A53, GRADE B, Fy = 35 KSI, Fu = 60 KSI.
   BOLTS – ASTM A325.
   FLAT WASHERS – ASTM F436.
   WELDS – AWS CLASS E70 LOW HYDROGEN ELECTRODES.
   TUBE COLUMNS – ASTM A500, GRADE B, Fy = 46 KSI, Fu = 58 KSI.
   COLUMN ANCHOR RODS – ASTM F1554 GRADE 36.
   HEADED SHEAR STUDS – ASTM A108.
2. ALL STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN" AND THE AISC CODE OF STANDARD PRACTICE.
3. CONNECTION BOLTS SHALL BE 3/4" DIAMETER ASTM A325 BOLTS WITH PROPER HARDENED WASHERS AND HEX NUTS UNLESS OTHERWISE NOTED. ALL BOLTS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 AND A490 BOLTS."
4. UNLESS OTHERWISE NOTED ALL CONNECTION BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
5. INSTALL A SUITABLE HARDENED WASHER UNDER THE HEAD OR NUT, WHICHEVER IS USED AS THE TURNED ELEMENT FOR TIGHTENING AND OVER ALL EXPOSED SLOTTED OR OVERSIZED HOLES.
6. UNLESS OTHERWISE NOTED ON THE PLANS ALL CONNECTION BOLTS SHALL BE DESIGNED AS BEARING TYPE WITH TREADS IN THE SHEAR PLANE (A325N).
7. ALL WELDING SHALL BE DONE BY WELDING OPERATORS CERTIFIED JOB. ACCORDING TO AWS D1. FOR THE WELDING POSITIONS AND WELDING EQUIPMENT BEING USED FOR MAKING THE CONNECTIONS REQUIRED FOR THIS JOB.
8. UNLESS OTHERWISE NOTED MASONRY SUPPORTED BEAMS BEARING PERPENDICULAR TO MASONRY WALLS SHALL BEAR A MINIMUM OF 6" ON SOLID MASONRY AT EXPOSED 8" CMU WALLS AND 8" ON SOLID MASONRY AT CONCEALED 8" CMU WALLS AND 8" ON SOLID MASONRY AT 12" CMU WALLS. MASONRY SUPPORTED BEAMS AND PLATE LINTELS BEARING PARALLEL TO MASONRY WALLS SHALL BEAR A MINIMUM OF 12" ON SOLID MASONRY.
9. ALL COPES, CUTS, BLOCKS, NOTCHES SHALL HAVE SMOOTH RE–ENTRANT CORNERS OF 1/2" MINIMUM RADIUS.
10. RETURN ALL WELDS AT CORNERS A MINIMUM OF TWICE THE NOMINAL SIZE OF THE WELD.
11. PROVIDE HOLES FOR BLOCKING AND NAILER BOLTS AS REQUIRED BY ARCHITECTURAL DRAWINGS.
12. STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF GREY OXIDE PAINT OF 2 MIL DFT. SURFACE PREPARATION SHALL BE POWER TOOL CLEANING CONFORMING TO SSPC–SP3.
13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY BRACING AND GUYING OF STEEL FRAMING AND LOAD BEARING WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF FRAME.
14. COLUMN CAP AND BASE PLATES SHALL BE FULLY WELDED ALL AROUND TO COLUMN SHAFT WITH 5/16" FILLET WELDING UNLESS OTHERWISE NOTED.
15. ALL COLUMNS SHALL HAVE A MINIMUM OF 4 ANCHOR RODS SET ON A SQUARE PATTERN.
16. ALL COLUMN CAP PLATES SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE 3/4" MINIMUM THICKNESS.
17. ALL OTHER COLUMN CAP PLATES NOT SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE CAPPED WITH 1/2" MINIMUM THICKNESS.
18. SHEAR TAB PLATES ATTACHED TO COLUMN OR BEAMS SHALL BE 1/2" MINIMUM THICKNESS AND SHALL BE WELDED TO THE SUPPORT MEMBER WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES.
19. STABILIZER PLATES FOR JOIST BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" x 8" x 0'–8" MINIMUM AND SHALL BE SHOP WELDED TO COLUMN OR BEAM WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES.
20. STABILIZER PLATES FOR JOIST GIRDER BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" x 8" x 0'–8" MINIMUM AND SHALL BE SHOP WELDED TO COLUMN OR BEAM WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES.
21. UNLESS OTHERWISE NOTED PROVIDE 2" NOMINAL GROUT THICKNESS UNDER COLUMN BASE PLATES TO ALLOW FOR A HEAVY HEX LEVELING NUT AND STANDARD FLAT WASHER TO BE PLACED ON EACH ANCHOR BOLT ON THE UNDERSIDE OF THE COLUMN BASE PLATE FOR PRECISION LEVELING AND PLUMBING THE COLUMN. PROVIDE A STANDARD FLAT WASHER UNDER A HEAVY HEX CLAMPING NUT ON TOP OF THE BASE PLATE FOR EACH ANCHOR BOLT.
22. ALL LINTEL ANGLES, BEAMS AND PLATES IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED TO G60 STANDARDS AFTER FABRICATION. ALL INTERMITTENT WELDS AND OTHER SEAMS ON BEAM AND PLATE LINTELS SHALL BE SEALED.
23. PROVIDE 3/4" x 4 1/2" LONG HEADED FIELD WELDED SHEAR STUDS FOR ALL BEAMS SUPPORTING 3" COMPOSITE METAL DECK. SPACE HEADED SHEAR STUDS AT 12" o/c. AND PLACE STUDS IN THE STRONG POSITION OF THE DECK FLUTES
24. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

LINTEL SCHEDULE FOR MASONRY OPENINGS NOT SPECIFIED OTHERWISE

EXTERIOR MASONRY WALL OPENINGS

MASONRY OPENING UP TO 4'–0"
BRICK WYTHE L 4 x 4 x 1/4
8" CMU WYTHE 8" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 4'–1" TO 6'–8"
BRICK WYTHE L 6 x 4 x 5/16 LLV
8" CMU WYTHE 8" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 6'–9" TO 8'–0"
BRICK WYTHE L 6 x 4 x 3/8 LLV
8" CMU WYTHE 8" x 8" BOND BEAM w/ 2 – #6 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING UP TO 4'–0"
BRICK WYTHE L 4 x 4 x 1/4
12" CMU WYTHE 12" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 4'–1" TO 6'–8"
BRICK WYTHE L 6 x 4 x 5/16 LLV
12" CMU WYTHE 12" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 6'–9" TO 8'–0"
BRICK WYTHE L 6 x 4 x 3/8 LLV
12" CMU WYTHE 12" x 8" BOND BEAM w/ 2 – #6 CONTINUOUS TOP AND BOTTOM

INTERIOR MASONRY WALL OPENINGS

MASONRY OPENING UP TO 4'–0"
8" CMU WYTHE 8" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 4'–1" TO 6'–0"
8" CMU WYTHE 8" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 6'–1" TO 8'–0"
8" CMU WYTHE W 8 x 10 w/ BOTTOM PLATE 1/4" x 7" FULL LENGTH

MASONRY OPENING UP TO 4'–0"
12" CMU WYTHE 12" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 4'–1" TO 6'–0"
12" CMU WYTHE 12" x 8" BOND BEAM w/ 2 – #5 CONTINUOUS TOP AND BOTTOM

MASONRY OPENING 6'–1" TO 8'–0"
12" CMU WYTHE W 8 x 10 w/ BOTTOM PLATE 1/4" x 11" FULL LENGTH

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED CONTINUOUSLY OR PERIODICALLY AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC BUILDING CODE) AS SCHEDULED BELOW.
2. SPECIAL INSPECTORS SHALL BE DULY CERTIFIED TO INSPECT THE WORK REQUIRING THE INSPECTION AS SCHEDULED.
3. SPECIAL INSPECTION NOTES:
   - A) THE INSPECTOR SHALL MONITOR ALL SOIL CUTTING AND FILLING AREAS UNDER THE BUILDING AND TO 10' OUTSIDE THE BUILDING AREA IN ACCORDANCE WITH TABLE 1705.6 OF THE IBC BUILDING CODE.
   - B) STEEL FABRICATION SHOPS NOT CERTIFIED BY AISC WILL REQUIRE IN SHOP INSPECTION BY THE SPECIAL INSPECTOR. AISC SHOPS MAY WAIVE THIS REQUIREMENT.
   - C) ALL STRUCTURAL STEEL FABRICATION SHALL BE PERFORMED IN SHOPS WITH MINIMUM OF FIVE YEARS OF SATISFACTORY COMPLETION OF WORK SIMILAR TO WORK ON THIS PROJECT.
   - D) WELD CERTIFICATION PAPERS FOR ALL FIELD WELDERS SHALL BE VERIFIED BY THE SPECIAL INSPECTOR.
   - E) ALL FIELD WELDING OF LIGHT GAGE MEMBERS TO STRUCTURAL STEEL PARTS SHALL BE PERIODICALLY INSPECTED.
   - F) LIGHT GAGE FRAMING SHALL BE PERIODICALLY INSPECTED.
   - G) INSPECTION SHALL COVER METAL STUD SIZES, SHAPES, THICKNESS, STRAIGHTNESS, SCREW SIZES AND NUMBER, STUD BEARING AGAINST TRACK WEBS, STRAP BRACING SIZE AND CONNECTION DETAILS, BRIDGING SIZE AND CONNECTION DETAILS, WALL OPENING HEADER SIZE AND DETAILS, WALL ALIGNMENT AND PLUMBNESS, AND DETAILS OF WORKMANSHIP AND INTERCONNECTION OF LIGHT GAGE MEMBERS CONNECTED BY SCREWS OR FIELD WELDING.
   - H) SPECIAL INSPECTORS SHALL BE IN DIRECT COMMUNICATION WITH THE ENGINEER OF RECORD DURING THE INSPECTION PROCESS.
   - I) FULL REPORTS OF ALL INSPECTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.

DIMENSIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DIMENSIONS IN THE DRAWINGS AND ADVISING THE ARCHITECT OF ANY DIFFERENCES IN THE DIMENSIONS ON THE DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.

DESIGN CODE DATA (NEW CONSTRUCTION)

1. IMPORTANCE FACTORS:
   - WIND Iw = 1.0
   - SNOW Is = 1.1
   - SEISMIC Ie = 1.25
2. LIVE LOAD:
   - ROOF 20 PSF
   - PLATFORMS 60 PSF
   - CORRIDORS 80 PSF
   - CLASSROOMS 40 PSF
   - STAIRS 100 PSF
3. DEAD LOAD:
   - ROOF 24 PSF
4. SNOW LOAD:
   - Pg 10.0 PSF
   - Ct 1.0
   - Ce 0.9
   - Pf 8.5 PSF
   - Ps 8.5 PSF
5. WIND LOAD: V_{ULT} = 130 3 SEC PEAK GUST MPH (ASCE 7 – 10)
   V_{ASD} = 101 MPH
   - EXPOSURE C
   - INTERNAL PRES. COEFF. +/– 0.18 (ENCLOSED)
   - MWFRS DESIGN WIND PRES. 41.0 PSF
   - WIND BASE SHEARS (SEE TABLE)
   - COMPONENTS & CLADDING DESIGN WIND PRESSURES +28.6 PSF / –35.7 PSF

WIND BASE SHEARS		
AREA	V_X (KIPS)	V_Y (KIPS)
GYM BUILDING	202	640
CLASSROOM BUILDING	241	744
ADMIN BUILDING	185	133
CONNECTORS	58	17

6. SEISMIC DESIGN (ASCE 7 – 10):
   - Ss 0.097
   - S1 0.051
   - Sms 0.154
   - Sm1 0.121
   - Sds 0.104
   - Sd1 0.081

SEISMIC ANALYSIS RESULTS											
AREA	CATEGORY	SITE	USE	SYSTEM	R	Cs	PROCEDURE	COMPONENTS	LATERAL DESIGN CONTROL	V_X (KIPS)	V_Y (KIPS)
GYM BUILDING	C	D	III	B. BUILDING FRAME SYSTEM 17. INTERMEDIATE REINF. MASONRY SHEAR WALLS	4	0.032	EQUIV. LATERAL FORCE	ANCHORED	WIND	155	155
CLASSROOM BUILDING	C	D	III	A. BEARING WALL SYSTEM 8. INTERMEDIATE REINF. MASONRY SHEAR WALLS	3.5	0.037	EQUIV. LATERAL FORCE	ANCHORED	WIND	220	220
ADMIN BUILDING	C	D	III	B. BUILDING FRAME SYSTEM 17. INTERMEDIATE REINF. MASONRY SHEAR WALLS	4	0.032	EQUIV. LATERAL FORCE	ANCHORED	WIND	72	72
CONNECTORS	C	D	III	B. BUILDING FRAME SYSTEM 17. INTERMEDIATE REINF. MASONRY SHEAR WALLS	4	0.032	EQUIV. LATERAL FORCE	ANCHORED	WIND	12	12

7. SOIL BEARING VALUE 2000 PSF
   (GEOTECHNICAL REPORT BY TERRACON (PROJECT NO. K5245005, DATED 26 MAR 2024)

QUALITY ASSURANCE WIND AND SEISMIC SUBMITTALS

1) MILL TEST REPORTS FOR ALL STRUCTURAL STEEL MATERIAL SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
2) MILL TEST REPORTS FOR ALL STEEL JOISTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL.
4) OPEN WEB STEEL JOISTS SHALL BE MANUFACTURED IN AN SJI CERTIFIED SHOP.
5) MILL TEST REPORTS FOR ALL METAL DECK AND STRUCTURAL PROPERTIES OF DECK PROFILES SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL.
6) ALL METAL ROOF DECK SHALL BE ROLL FORMED IN A STEEL DECK INSTITUTE (SDI) CERTIFIED SHOP.
7) ALL COMPOSITE METAL FLOOR DECK SHALL BE ROLL FORMED IN A STEEL DECK INSTITUTE (SDI) CERTIFIED SHOP.
6) MILL TEST REPORTS FOR ALL BOLTS AND SHEAR STUDS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS.
7) ALL FIELD WELDING SHALL BE PERFORMED BY WELDING PERSONNEL HOLDING CURRENT CERTIFICATION BY AWS FOR THE TYPES OF WELDING BEING PERFORMED. THE CERTIFICATION PAPERS SHALL BE EXAMINED AND APPROVED BY THE TESTING AGENCY.
8) TEST REPORTS FOR ALL CONCRETE MASONRY UNITS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.
9) TEST REPORTS FOR ALL MORTARS AND GROUTS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.
10) MILL TEST REPORTS FOR ALL REINFORCING STEEL SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
11) TEST REPORTS FOR ALL CONCRETE SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR POSSIBLE CLARIFICATION OF RECONCILIATION.

CONSTRUCTION SAFETY

1. THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STATEMENT OF SPECIAL INSPECTIONS

QUALITY ASSURANCE FOR WIND AND SEISMIC
EACH OF THE FOLLOWING COMPONENTS (STEEL, MASONRY, DESIGNATED SEISMIC)
ARE IN EITHER THE SEISMIC OR WIND FORCE RESISTING SYSTEMS OR BOTH.
EACH REQUIRES STRUCTURAL OBSERVATION IN ACCORDANCE WITH CH.17 OF THE IBC

STATEMENT OF SPECIAL INSPECTIONS	INSPECTION FREQUENCY	
CONCRETE		
1. INSPECTION OF REINFORCING STEEL, AND PLACEMENT.	PERIODIC	ACI 318: 3.5, 7.1–7.7
2. REINFORCING STEEL WELDING.	NOT PERMITTED	AWS D1.4, ACI 318: 3.5.2
3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	CONTINUOUS	ACI 318: 8.1.3, 21.2.8
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	PERIODIC	ACI 318: 3.8.6, 8.1.3, 21.2.8
5. VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH.4, 5.2–5.4
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C 172, ASTM C 31, ACI 318: 5.6, 5.8
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5,.10
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11–5.13
9. N/A		
10. N/A		
11. VERIFICATION OF IN–SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 6.2
12. INSPECT FORMWORK FOR SHAPE, LOCATOIN AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1
SOILS		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	

ITEM	OBSERVATION FREQUENCY	REFERENCE STANDARD	WIND OR SEISMIC
STEEL			
BOLTING			
ID MARKING	PERIODIC	AISC 360	WIND AND SEISMIC
MILL CERTS	PERIODIC		WIND AND SEISMIC
SNUG TIGHT	PERIODIC	AISC 360	WIND AND SEISMIC
CALIBRATED TURN OF NUT	PERIODIC	AISC 360	WIND AND SEISMIC
DTI	PERIODIC	AISC 360	WIND AND SEISMIC
UNCALIBRATED TURN OF NUT	NOT PERMITTED		WIND AND SEISMIC
ERECTION			
PIECE ID MARKS	PERIODIC	AISC 360	WIND AND SEISMIC
OTHER STEEL ID MARKS	PERIODIC	ASTM	WIND AND SEISMIC
MILL CERTS	PERIODIC		WIND AND SEISMIC
FRAME BRACING	PERIODIC		WIND AND SEISMIC
MEMBER LOCATIONS	PERIODIC		WIND AND SEISMIC
JOINT DETAILS AT EACH CONNECTION	PERIODIC		WIND AND SEISMIC
WELDMENTS			
WELDFILLER ID MARKINGS	PERIODIC	AWS	WIND AND SEISMIC
MANUFACTURER'S CERTIFICATION	PERIODIC		WIND AND SEISMIC
MULTIPASS FILLET	CONTINUOUS	AWS	WIND AND SEISMIC
SINGLE PASS FILLET ≥ 5/16	CONTINUOUS	AWS	WIND AND SEISMIC
SINGLE PASS FILLET ≤ 5/16	PERIODIC	AWS	WIND AND SEISMIC
FLOOR AND ROOF DECK WELDS AND SCREWS	PERIODIC	AWS	WIND AND SEISMIC
MASONRY			
MATERIALS			
VERIFY f'_m	PERIODIC	TMS 602	WIND AND SEISMIC
VERIFY f'_{aac}	PERIODIC	TMS 602	WIND AND SEISMIC
PROPORTIONS OF MATERIALS			
MORTAR	PERIODIC	TMS 602	WIND AND SEISMIC
GROUT	PERIODIC	TMS 602	WIND AND SEISMIC
SLUMP OF GROUT	PERIODIC	TMS 602	WIND AND SEISMIC
PLACEMENT OF			
MASONRY UNITS	PERIODIC	TMS 602	WIND AND SEISMIC
MORTAR JOINTS	PERIODIC	TMS 602	WIND AND SEISMIC
REINFORCEMENT	PERIODIC	TMS 602	WIND AND SEISMIC
VERIFY GROUT SPACE PRIOR TO GROUT	CONTINUOUS	TMS 602	WIND AND SEISMIC
PLACEMENT OF GROUT	CONTINUOUS	TMS 602	WIND AND SEISMIC
SIZE OF MASONRY UNITS	PERIODIC	TMS 602	WIND AND SEISMIC
LOCATIONS OF MASONRY UNITS	PERIODIC	TMS 602	WIND AND SEISMIC
PREPARE GROUT PRISMS	CONTINUOUS		WIND AND SEISMIC
GRADE AND TYPE OF ANCHORS	CONTINUOUS	TMS 602	WIND AND SEISMIC
SIZE OF ANCHORS	CONTINUOUS	TMS 602	WIND AND SEISMIC
LOCATIONS OF ANCHORS	CONTINUOUS	TMS 602	WIND AND SEISMIC
GRADE AND TYPE OF REINFORCEMENT	PERIODIC		WIND AND SEISMIC
SIZE OF REINFORCEMENT	PERIODIC		WIND AND SEISMIC
WELDING OF REINFORCEMENT	NOT PERMITTED		WIND AND SEISMIC
VERIFY VERTICAL REINFORCEMENT	CONTINUOUS		WIND AND SEISMIC
VERIFY CONNECTION TO FOUNDATION	CONTINUOUS		WIND AND SEISMIC
COLD WEATHER PROCEDURES (< 40° F)	PERIODIC	TMS 602	WIND AND SEISMIC
HOT WEATHER PROCEDURES (> 90° F)	PERIODIC	TMS 602	WIND AND SEISMIC
SEISMIC			
DESIGNATED SEISMIC SYSTEMS			
EXTERIOR WALL PANELS AND ANCHORAGE*	PERIODIC		SEISMIC
SUSPENDED CEILINGS SYSTEMS AND ANCHORAGE*	PERIODIC		SEISMIC
ANCHORAGE OF EMERGENCY ELECTRICAL EQUIPMENT*	PERIODIC		SEISMIC
SPRINKLER PIPE CONNECTIONS*	PERIODIC		SEISMIC
DUCTWORK SUPPORTS*	PERIODIC		SEISMIC
MECHANICAL EQUIPMENT SUPPORTS*	PERIODIC		SEISMIC

*VERIFY THAT THE LABEL, ANCHORAGE, OR MOUNTING CONFORMS TO THE MANUFACTURER'S CERTIFICATE OF COMPLIANCE.

No.	Date:	Revision

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18991 BRUCE L. QUEEN
22 AUG 2024

New Construction
Perquimans Intermediate School
Perquimans County Public Schools
Perquimans County / North Carolina

Project No. 22303
Date: 22 AUG 2024
Drawing no. S 1201