

06 - STRUCTURAL INDEX OF DRAWINGS

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THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: DCS CHECKED BY: RPL SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION <small>Filename: ...FD_MST_STR_0111_0121_S001.dgn</small>	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121 DRAWING NO. S-001 SHEET NO. 06.01
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 8/5/2015							INDEX OF DRAWINGS			

CODES AND REFERENCES

- ALL WORK SHALL CONFORM TO THE STATE OF CONNECTICUT BUILDING CODE WITH 2005 SUPPLEMENT AND 2009 AMENDMENT AND THE CONTRACT DOCUMENTS.

DESIGN LOADS

- ROOF SNOW LOAD
 - GROUND SNOW LOAD, $P_g = 40$ PSF.
 - FLAT-ROOF SNOW LOAD, $P_f = 34$ PSF.
 - EXPOSURE FACTOR, $C_e = 1.0$
 - SNOW IMPORTANCE FACTOR, $I_s = 1.2$
- WIND LOAD
 - BASIC WIND SPEED, 100 MPH.
 - WIND IMPORTANCE FACTOR, $I_w = 1.15$
 - EXPOSURE C
- SEISMIC LOAD
 - PEAK VELOCITY-RELATED ACCELERATION, $A_v = 0.11$
 - PEAK ACCELERATION, $A_a = 0.15$
 - SEISMIC IMPORTANCE FACTOR, $I_e = 1.5$
 - SEISMIC USE GROUP III
 - SITE CLASSIFICATION - C
 - LATERAL LOAD-RESISTING SYSTEMS:
STEEL BRACED FRAME REINFORCED CMU SHEAR WALLS
 - RESPONSE MODIFICATION FACTOR, $R = 3$
 - DEFLECTION AMPLIFICATION FACTOR, $C_d = 2\frac{1}{2}$
 - ANALYSIS PROCEDURE UTILIZED - EQUIVALENT LATERAL FORCE PROCEDURE
 - SEISMIC DESIGN CATEGORY C.
 - SEISMIC LOAD FACTORS, $S_s = 0.263$ $S_1 = 0.083$
 $S_d_s = 0.2104$, $S_{d_1} = 0.094$

CONCRETE

- FOUNDATIONS SHALL BE PLACED ON 24-INCH THICK OF COMPACTED GRANULAR FILL IN ACCORDANCE WITH FORM 816, SECTION 2.13. EXTEND THE LIMITS OF GRANULAR FILL BY 2 FEET HORIZONTALLY OUTSIDE THE ENTIRE FOOTPRINT OF THE BUILDING. THE AREA OUTSIDE OF THE LIMITS OF GRANULAR FILL IS TO HAVE THE FOUNDATION PREPARATION IN ACCORDANCE WITH FORM 816, SECTION 2.03.03-2. (DESIGN MAXIMUM SOIL BEARING PRESSURE = 2.35 KSF)
- SLAB-ON-GRADE SHALL BE PLACED ON 6-INCH THICK OF GRANULAR FILL IN ACCORDANCE WITH FORM 816, SECTION 2.13.
- PROVIDE RIGID INSULATION AT EXTERIOR WALLS (TYP.) AND VAPOR BARRIER UNDER SLAB-ON-GRADE (TYP.), AS SHOWN ON THE STRUCTURAL PLANS.
- THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF FOUNDATION EXPANSION JOINTS AND MASONRY CONTROL JOINTS. CONTROL JOINTS FOR MASONRY SHALL BE PLACED AT LOCATIONS WHERE EXPANSION JOINTS OCCUR IN THE FOUNDATION.
- CONTROL JOINTS IN THE FOUNDATION WALLS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 50 FT.
- REINFORCED CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT AND SHALL BE CLASS 'F' IN ACCORDANCE WITH FORM 816, SECTION M.03. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- COORDINATE PLANS WITH THE CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS CONCRETE WORK.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185.
- REINFORCEMENT DETAILS SHALL CONFORM TO ACI 318. ALL CONCRETE REINFORCEMENT SPLICES SHALL BE ACI 318 CLASS 'B' SPLICES, UNLESS OTHERWISE NOTED.
- ADDITIONAL REINFORCEMENT AT PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS SHALL BE PROVIDED AS SHOWN ON THE STRUCTURAL PLANS.
- EXPOSED CORNERS OF CONCRETE SHALL HAVE A $\frac{3}{4}$ " X $\frac{3}{4}$ " CHAMFER, UNLESS OTHERWISE NOTED.
- NON-SHRINK GROUT UNDER BASE PLATES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI.
- REINFORCING CLEAR COVER, UNLESS OTHERWISE NOTED:
FOOTINGS - 3"
FOUNDATION WALLS AND PIERS - 2"
SLAB ON GRADE - 2"
- CONCRETE MIX DESIGN WITH ADMIXTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

STEEL

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL W-SHAPES, CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A992 50 KSI, STEEL, UNLESS OTHERWISE NOTED. STRUCTURAL TUBE SHALL CONFORM TO ASTM A618, 50 KSI, GRADE 1.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1, USING E7018 ELECTRODES.
- WHERE WELD SIZES ARE NOT SPECIFIED, A MINIMUM WELD SIZE SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1
- WELDS SHALL BE VISUALLY INSPECTED, UNLESS OTHERWISE NOTED.
- SHOP AND FIELD WELDS SHALL BE INSPECTED BY AN AWS-CERTIFIED WELDING INSPECTOR HIRED BY THE CONTRACTOR.
- BOLTS SHALL BE $\frac{3}{4}$ " DIAMETER ASTM A325-X WITH $\frac{13}{16}$ " DIAMETER HOLES, UNLESS OTHERWISE NOTED. ALL BOLT CONNECTIONS SHALL BE SLIP-CRITICAL UNLESS OTHERWISE NOTED.
- ALL A325 BOLTS SHALL BE PRETENSIONED, UNLESS OTHERWISE NOTED. TENSION-CONTROL (TC) BOLTS ARE ALSO ACCEPTABLE.
- BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.
- ALL STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED IN CONFORMANCE WITH THE CONTRACT SPECIFICATIONS. ALL SURFACES SHALL BE BLAST-CLEANED PER PROVISIONS OF "SSPC-SP 10 FOR NEAR-WHITE BLAST CLEANING".
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS OTHERWISE NOTED.
- COLUMN BASE PLATES SHALL BE LEVELED USING DOUBLE NUTS AND GROUT.
- THE CONTRACTOR SHALL COMPLY WITH OSHA SAFETY STANDARD FOR STEEL ERECTION, EFFECTIVE JANUARY 18, 2002.
- ANY STEEL CONFLICT SHALL NOT RELIEVE THE CONTRACTOR FROM ITS CONTRACTUAL OBLIGATION TO INSTALL FIRE-RATED WALLS AS DEPICTED ON THE PLANS.

MASONRY

- MASONRY DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- CONCRETE BLOCK UNITS SHALL BE TYPE I, LIGHTWEIGHT, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 FOR HOLLOW BLOCKS AND ASTM C145 FOR SOLID BLOCKS.
- CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (fm) OF 1,900 PSI.
- ALL REINFORCED CELLS SHALL BE CONTINUOUSLY GROUTED. GROUT IS TO CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- MORTAR FOR CONCRETE BLOCK SHALL BE TYPE S, CONFORMING TO ASTM C270, AS SPECIFIED, UNLESS NOTED OTHERWISE. THE FIRST COURSE OF BLOCK SHALL BE PLACED USING A FULL MORTAR BED. FOR EXTERIOR BRICK VENEER MORTAR SHALL BE TYPE N, CONFORMING TO ASTM C270.
- MASONRY WALLS WITH A HEIGHT GREATER THAN 12 FT. SHALL BE Laterally supported at the top as specified on the structural drawings using angles attached to structural steel or roof decking, unless otherwise noted. The attachment shall allow vertical movement (deflection) of the deck and joist, unless otherwise noted. All masonry walls shall be appropriately shored during construction to resist all design wind loading.
- BOND BEAMS WITH TWO (2) #5 BARS SHALL BE PROVIDED AT THE TOP OF ALL MASONRY WALLS, UNLESS OTHERWISE NOTED.
- LINTELS SHALL BE PROVIDED AT ALL MASONRY OPENINGS AS SHOWN ON THE STRUCTURAL PLANS OR AS REQUIRED DUE TO ELECTRICAL OR MECHANICAL PENETRATIONS, UNLESS OTHERWISE NOTED.
- PROVIDE ONE (1) #5 REBAR EACH SIDE OF ALL OPENINGS WITHIN MASONRY, OR CELLS ADJACENT TO STRUCTURAL STEEL OR CONTROL JOINTS. REBAR SHALL EXTEND 2 FEET BEYOND OPENING, OR BE HOOKED IF APPROVED BY THE DESIGNER.
- ALL VISIBLE JOINTS SHALL BE SEALED. PROVIDE BACKER ROD.
- PROVIDE CONTROL JOINTS IN MASONRY AS SHOWN IN THE ARCH.'S PLANS AND AS CALLED FOR IN THE CONTRACT SPECIFICATIONS.

- WHERE MASONRY IS ADJACENT TO STRUCTURAL STEEL, FLEXIBLE ANCHORS, COMPRESSIBLE JOINT FILLER MATERIAL AND JOINT SEALANT SHALL BE USED.
- MASONRY REINFORCEMENT SPLICES SHALL CONFORM TO ACI 530, UNLESS OTHERWISE SHOWN.
- UNFINISHED WALLS AT THE END OF A WORKDAY SHALL BE COVERED TO PREVENT INFILTRATION OF WATER.

STEEL JOIST

- STEEL JOISTS SHALL BE INSTALLED IN ACCORDANCE WITH THE SJI STANDARD SPECIFICATIONS FOR STEEL JOIST CONSTRUCTION, UNLESS OTHERWISE NOTED. WELDERS MUST BE AWS-CERTIFIED.
- WHERE THE BOTTOM OF A JOIST IS TO BE ATTACHED TO A BEAM, COLUMN OR WALL, THE ATTACHMENT SHALL BE MADE AFTER THE ROOF SYSTEM HAS BEEN INSTALLED AND ATTAINED FULL DEAD LOAD DEFLECTION.
- MISCELLANEOUS SUPPORTS ATTACHED TO JOISTS SHALL BE LOCATED AT THE PANEL POINTS (NODES) AND SHALL NOT IMPOSE LOADS EXCEEDING 200 POUNDS.
- ALL JOIST EXTENSIONS SHALL BE PROVIDED AS INDICATED ON THE PLANS OR AS REQUIRED FOR COMPLETE INSTALLATION.
- ALL JOISTS SHALL BE ANCHORED DOWN AT BEARING POINTS AS SHOWN ON THE STRUCTURAL PLANS.
- JOISTS SHALL BE DESIGNED FOR 15 LBS. PER SQUARE FOOT OF NET UPLIFT FORCE.
- THE JOIST MANUFACTURER SHALL VERIFY THE WEIGHTS OF EQUIPMENTS (UNIT HEATERS, ETC.) AND POINTS OF SUPPORTS FOR THE PURPOSE OF SPECIAL JOIST MANUFACTURE, WHERE APPLICABLE.

METAL DECKING

- ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO THE SDI "SPECIFICATIONS FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION," AND SHALL BE INSTALLED ACCORDING TO THE PROVISIONS AS OUTLINED WITHIN THE CONTRACT SPECIFICATIONS.
- ALL STEEL DECK SHALL COMPLY WITH ASTM A446, AND SHALL BE GALVANIZED PER ASTM A525, COATING DESIGNATION G90.
- METAL DECKING SHALL BE ATTACHED AS SPECIFIED IN SPECIFICATION SECTION 053100 OF THE CONTRACT SPECIFICATIONS.
- ROOF DECK SHALL BE $1\frac{1}{2}$ " WIDE RIB, 18 GAUGE STEEL TYPE B, WITH MINIMUM YIELD STRENGTH OF 33 KSI.
-SUPPORT FASTENERS: $\frac{5}{8}$ " PUDDLE WELDS,
-SIDELAP FASTENERS: 3-#10 TEK SCREWS
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.3.
- PRIOR TO CONSTRUCTION OF METAL DECK, TESTS MUST BE PERFORMED TO DETERMINE IF THE THICKNESS OF THE METAL DECK IS ADEQUATE TO SUSTAIN PUDDLE WELDING WITHOUT EXCESSIVE BLOWOUT OF THE MATERIAL. IF FOUND TO BE NOT ADEQUATE, PUDDLE WELD WASHERS MUST BE USED IN THE ENTIRE DECK CONSTRUCTION.

GENERAL NOTES

- THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH OTHER DISCIPLINE DRAWINGS AND WITH EQUIPMENT MANUFACTURERS TO ENSURE THAT OPENINGS IN THE ROOF AND WALLS ARE PROVIDED WITH THE REQUIRED APPURTENANT FRAMING OR SUPPORT SYSTEM.
- DIMENSIONS AND DETAILS RELATED TO THE SIZE AND LOCATION OF EQUIPMENT SHALL BE VERIFIED WITH THE EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.
- SIZES AND LOCATIONS OF EMBEDDED MECHANICAL AND ELECTRICAL FIXTURES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITIES OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND IMPLEMENTING THE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- TEMPORARY BRACING, SHEETING, SHORING AND OTHER SIMILAR SAFETY PRECAUTIONARY MEASURES DURING CONSTRUCTION ARE THE RESPONSIBILITIES OF THE CONTRACTOR AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR

- THE CONTRACTOR SHALL REPAIR, AT ITS OWN EXPENSE, ANY DAMAGE TO THE STRUCTURES AND APPURTENANCES DUE TO THE CONTRACTOR'S CONSTRUCTION OPERATIONS.
- THE IMPLEMENTATION OF JOB SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ABBREVIATIONS

BRG	BEARING
B.F.E.	BOTTOM OF FOOTING ELEVATION
B.O.S.	BOTTOM OF STEEL
CL	CENTER LINE
CJ	CONTROL (CONTRACTION) JOINT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONC BLK	CONCRETE BLOCK
CONT	CONTINUOUS
DET	DETAIL
DIA; Ø	DIAMETER
DL	DOUBLE ANGLE
EA	EACH
EL	ELEVATION
EQ	EQUAL
EJ	EXPANSION (ISOLATION) JOINT
EW	EACH WAY
FH	FLIPPED HORIZONTALLY
FV	FLIPPED VERTICALLY
FFE	FINISH FLOOR ELEVATION
FT	FOOT
GRT	GIRT
HP	HIGH POINT
HT	HEIGHT
JT	JOINT
LP	LOW POINT
MAINT	MAINTENANCE
MATL	MATERIAL
MET	METAL
MFR	MANUFACTURER
MIN	MINIMUM
M.O.	MASONRY OPENING
NTS	NOT TO SCALE
O.C.	ON CENTER
OH	OVERHEAD
PL	PLATE
REINF	REINFORCED
REQ	REQUIRED
R.O.	ROUGH OPENING
SECT	SECTION
SIM	SIMILAR
SP	SPECIAL
SQ	SQUARE
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
TOC	TOP OF CONCRETE
TOCH	TOP OF CHANNEL
T.O.B.	TOP OF BEAM
TOG	TOP OF GRATE
TOJ	TOP OF JOIST
TOKW	TOP OF KNEEWALL
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
TS	STRUCTURE STEEL TUBING
T.W.E.	TOP OF WALL ELEVATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UOS	UNLESS OTHERWISE SHOWN
W/	WITH
WWR	WELDED WIRE REINFORCEMENT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
DCS
CHECKED BY:
RPL
SCALE AS NOTED

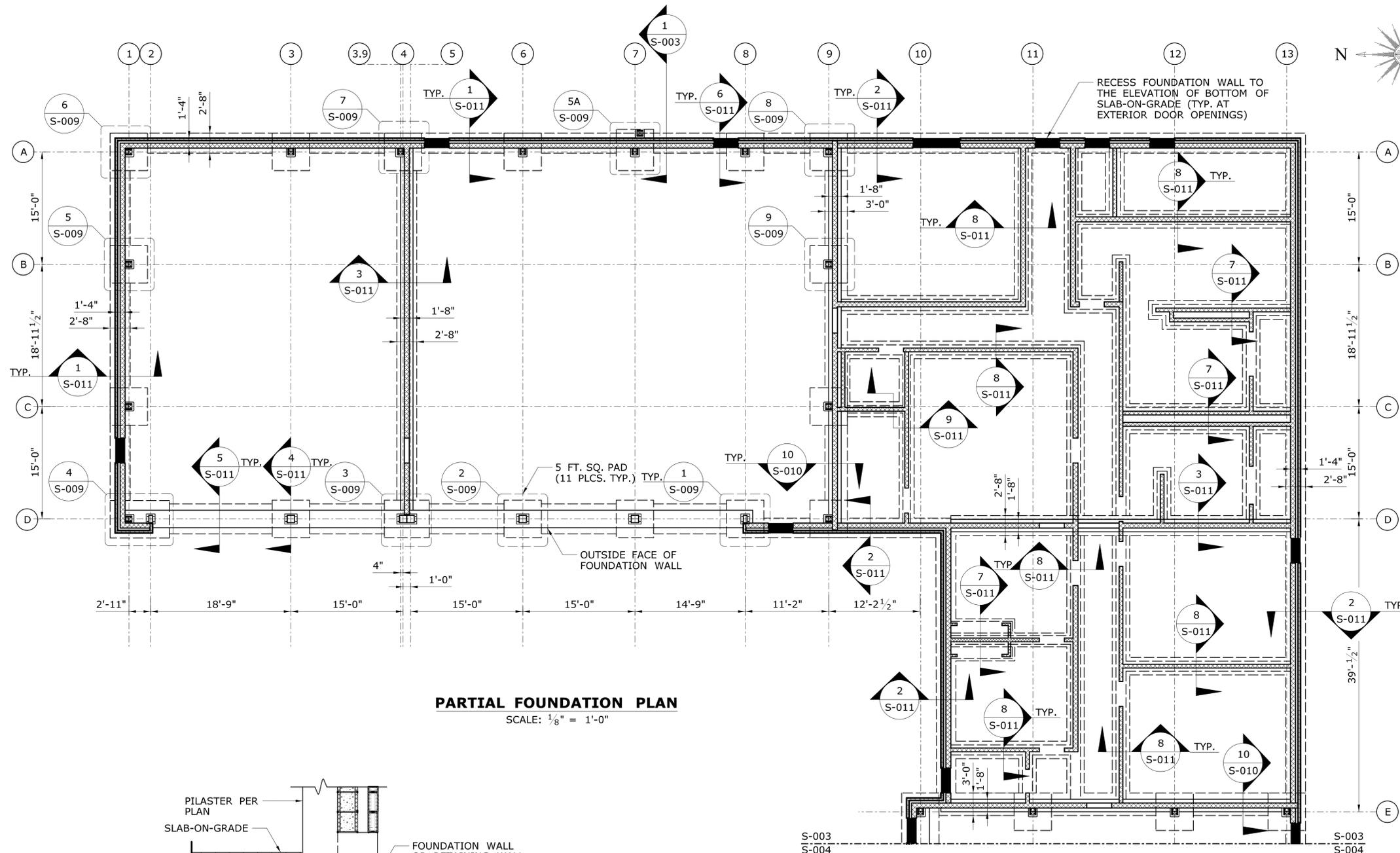


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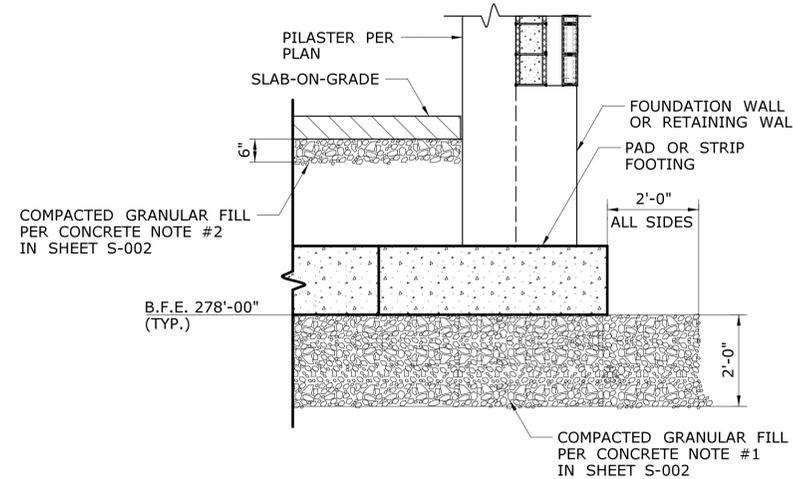
PROJECT TITLE:
**POMFRET
MAINTENANCE FACILITY**

TOWN:
POMFRET
DRAWING TITLE:
**GENERAL NOTES AND
ABREVEATION**

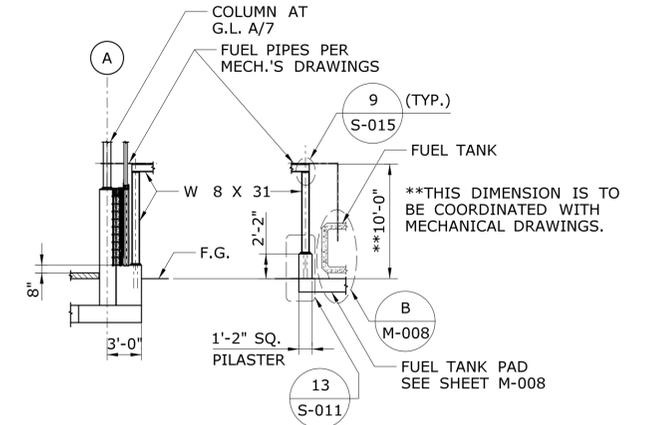
PROJECT NO.
111-121
DRAWING NO.
S-002
SHEET NO.
06.02



PARTIAL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



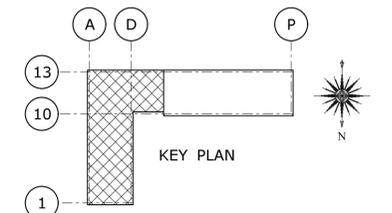
LIMITS OF FOUNDATION SUB-BASE (TYP.)



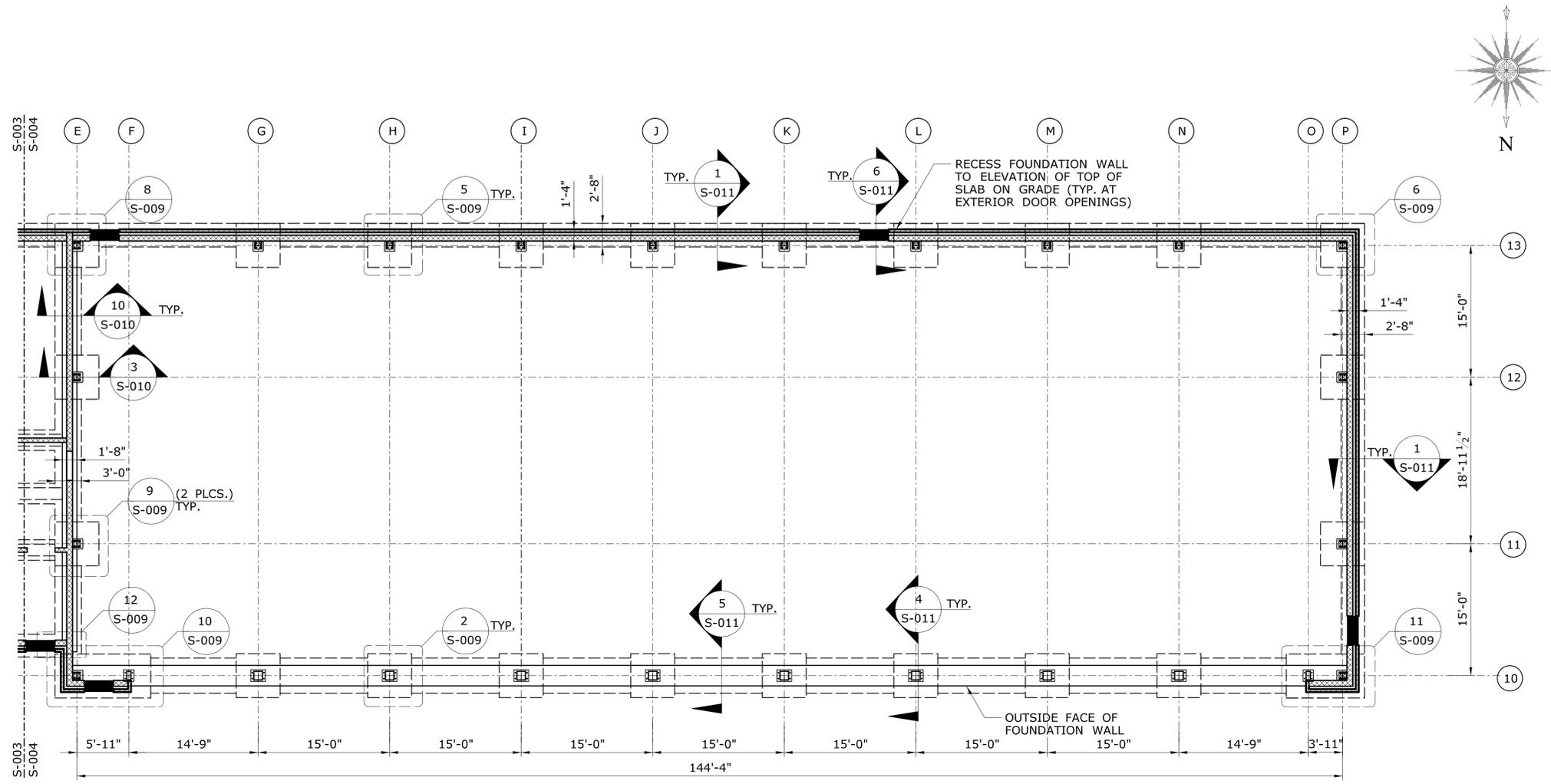
SECTION AT FUEL PIPE SUPPORT 1 S-003
SCALE: 1/8" = 1'-0"

FOUNDATION NOTES:

1. DAMPPROOFING SHALL EXTEND DOWN THE ENTIRE OUTSIDE FACE OF THE FOUNDATION WALL, OVER THE TOP OF FOOTING, AND 6" (MIN.) DOWN THE OUTSIDE FACE OF FOOTING.
2. SEE CONCRETE NOTES ON S-002.
3. THE CONTRACTOR SHALL COORDINATE THE REQUIRED SLEEVE SIZES AND LOCATIONS IN THE FOUNDATION WALLS FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS.
4. WHERE APPLICABLE, THE LONGITUDINAL BARS IN THE STRIP FOOTING AND FOUNDATION WALL SHALL CONTINUE THROUGH THE ADJOINING PAD AND FOUNDATION WALL UNDER A STEEL COLUMN, OR BE EMBEDDED WITH SUFFICIENT DEVELOPMENT LENGTH AS SHOWN IN SECTION 10/S-011.
5. REFER TO THE MISCELLANEOUS DETAIL ON S-019 FOR THE REINFORCEMENT AT CONTROL JOINTS IN A CONTINUOUS FOUNDATION WALL.
6. REFER TO ELECTRICAL DRAWINGS FOR THE GROUNDING SYSTEM INSULATION.
7. REFER TO SECTION, "LIMITS OF FOUNDATION SUB-BASE (TYP.)" THIS SHEET FOR SUB-BASE CONSTRUCTION.



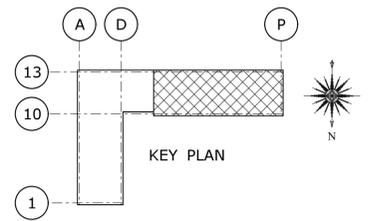
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CHECKED BY: RPL		APPROVED BY: 	FOUNDATION PLAN-1	DRAWING NO. S-003	SHEET NO. 06.03
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	Filename: ...FD_MST_STR_0111_0121_S003.dgn	



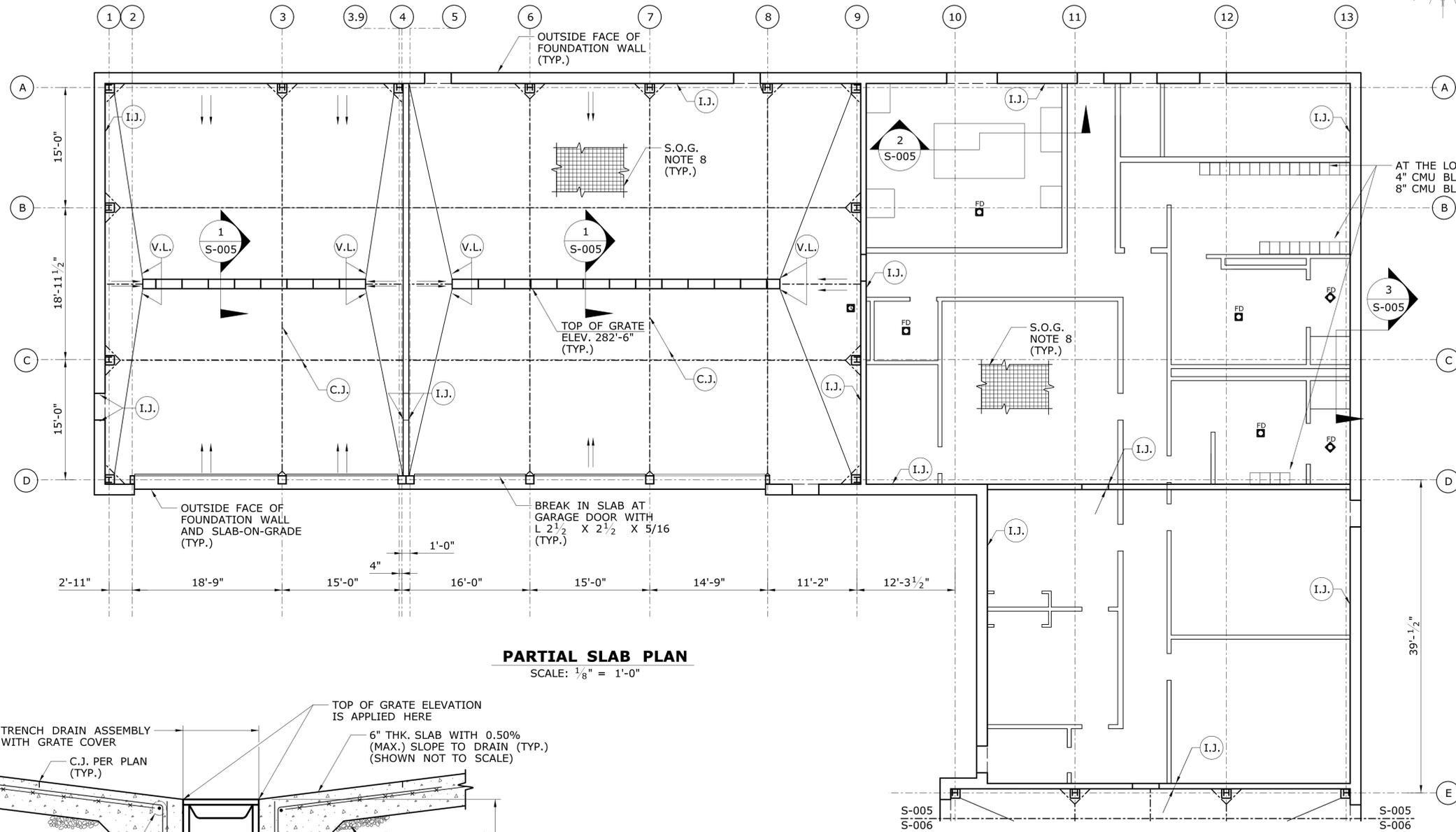
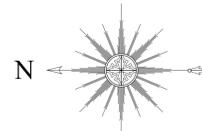
PARTIAL FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION NOTES:

1. DAMPPROOFING SHALL EXTEND DOWN OUTSIDE FACE OF FOUNDATION WALL OVER TOP OF FOOTING AND 6" MINIMUM DOWN OUTSIDE FACE OF FOOTING.
2. SEE CONCRETE NOTES ON S-002.
3. THE CONTRACTOR SHALL COORDINATE THE REQUIRED SLEEVE SIZES AND LOCATIONS IN THE FOUNDATION WALLS FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS.
4. REFER TO MISCELLANEOUS DETAIL ON S-019 FOR THE REINFORCEMENT AT CONTROL JOINTS IN A CONTINUOUS FOUNDATION WALL.
5. REFER TO ELECTRICAL DRAWINGS FOR THE GROUNDING SYSTEM INSULATION.
6. REFER TO SECTION, "LIMITS OF FOUNDATION SUB-BASE (TYP.)" ON S-003 FOR SUB-BASE CONSTRUCTION.



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015			



PARTIAL SLAB PLAN
SCALE: 1/8" = 1'-0"

LEGEND

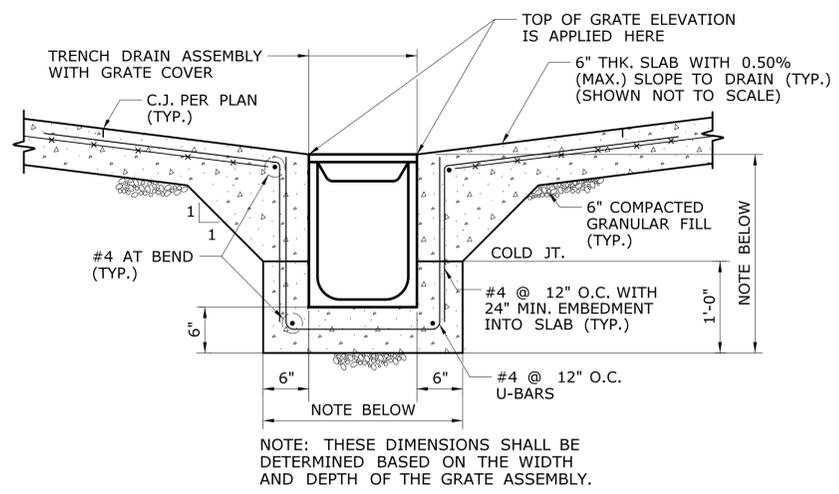
- I.J. - 1/2" WIDE ISOLATION JOINT ALONG PERIMETER WALLS AND BOTH SIDES OF INTERIOR WALLS. REFER TO WALL SECTIONS.
- C.J. - CONTROL JOINT AS SHOWN ON SLAB PLAN
- V.L. - VALLEY LINE IN FLOOR DRAINAGE
- S.O.G. - SLAB-ON-GRADE
- T.D. - TRENCH DRAIN ASSEMBLY WITH GRATE COVER
- FD - FLOOR DRAIN

SLAB NOTES

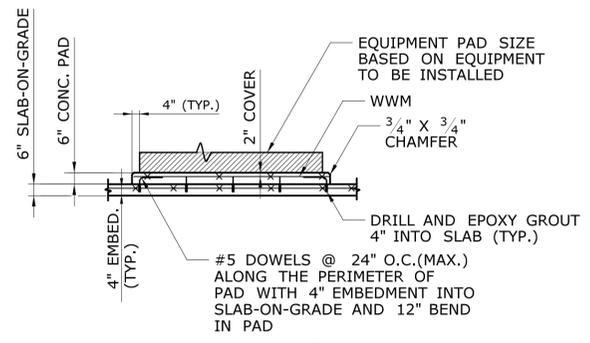
1. FOR ELEVATION OF DRAINS, SEE PLUMBING DRAWINGS.
2. W.W.R. REINFORCEMENT SHALL BE PLACED IN THE TOP THIRD OF THE SLAB.
3. PLACE VAPOR BARRIER UNDER SLAB (TYP.)
4. IF ACCORDING TO THE ENGINEER, CONSTRUCTION JOINTS BECOME NECESSARY, THEY ARE TO BE CONSTRUCTED USING THE CONSTRUCTION JOINT DETAIL SHOWN ON DRAWING S-019.
5. CONTROL JOINTS FORMED BY SAWCUT SHALL BE EFFECTED AT NO LATER THAN 6 HOURS AFTER CONCRETE HAS SET.
6. REFER TO MISCELLANEOUS CONCRETE DETAILS, S-019, FOR ALL APPLICABLE DETAILS IN THE CONSTRUCTION OF SLAB AND WALLS, UNLESS NOTED OTHERWISE.
7. SLOPE FLOOR TO DRAIN WITH 1FT. RADIUS OF DRAIN EDGE. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION AND DRAIN ELEVATION (TYP.)
8. 6-INCH THICK SLAB-ON-GRADE (WITH 6 X 6 W4.0/4.0) ON APPROVED VAPOR BARRIER ON 6-INCH COMPACTED GRANULAR FILL (TYP. THROUGHOUT)
9. REFER TO MECHANICAL AND PLUMBING SHEETS FOR THE EXACT LOCATIONS OF TRENCH DRAINS.

EQUIPMENT PADS NOTES

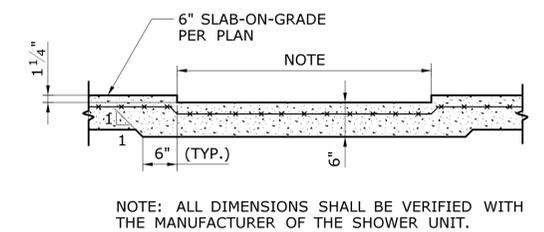
1. THE CONTRACTOR MUST VERIFY THE REQUIRED AREA OF PAD TO SUPPORT EACH EQUIPMENT FROM THE RESPECTIVE EQUIPMENT MANUFACTURER.
2. THE CONTRACTOR MUST COORDINATE THESE LAYOUTS WITH THE MECHANICAL ENGINEER'S AND ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENTS.
3. ALL VERTICAL AND HORIZONTAL EDGES OF THE PADS THAT ARE EXPOSED TO TRAVEL PATHS MUST HAVE A 3/4" X 3/4" CHAMFER.



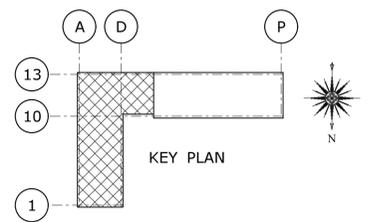
TRENCH SECTION 1
SCALE: 3/4" = 1'-0"
S-005



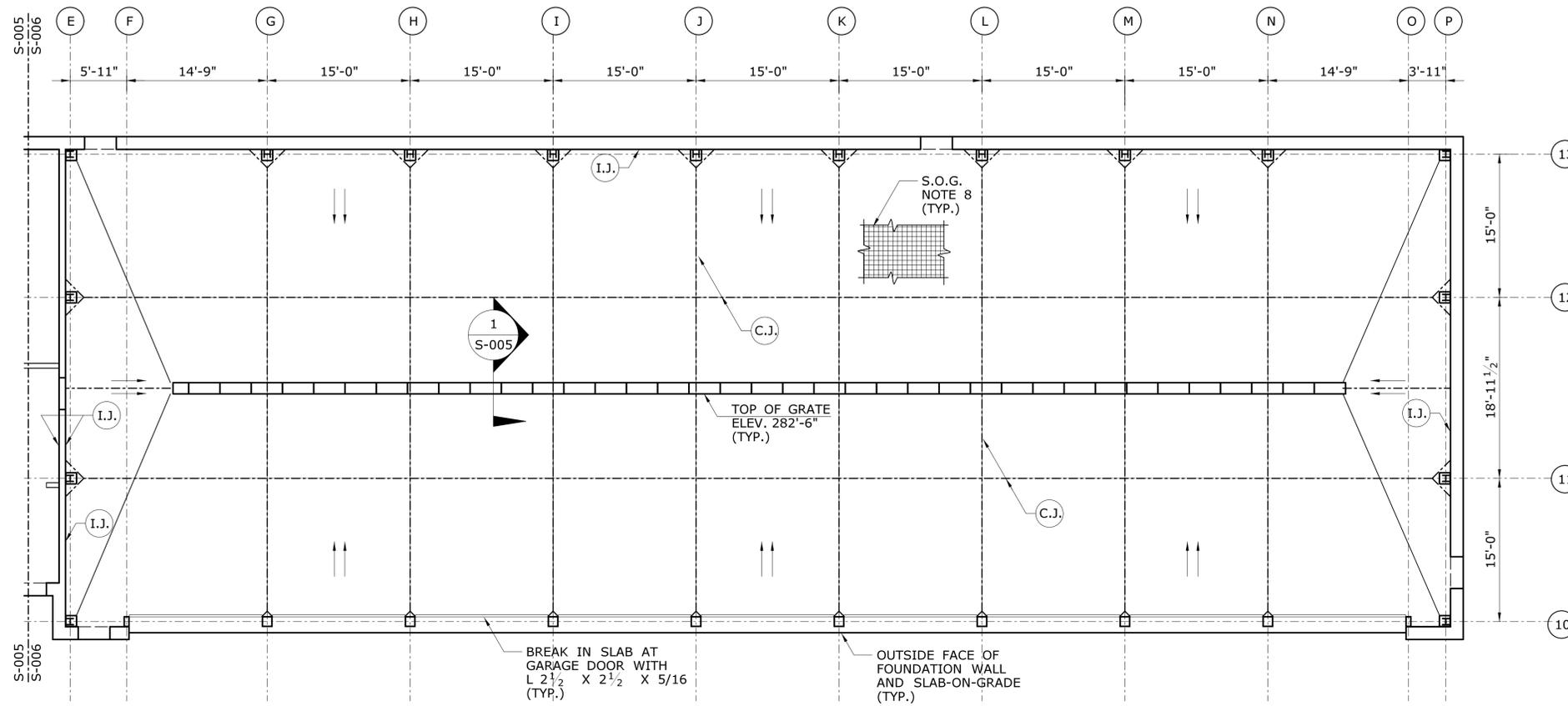
SECTION 2
SCALE: 1/4" = 1'-0"
S-005



SECTION 3
SCALE: 3/4" = 1'-0"
S-005



DESIGNER/DRAFTER: DCS CHECKED BY: RPL		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO.: 111-121
SCALE AS NOTED			APPROVED BY: 		DRAWING TITLE: SLAB PLAN-1	DRAWING NO.: S-005
REV. DATE - - - - - - - - - - - - - - -	REVISION DESCRIPTION - - - - - - - - - - - - - - -	SHEET NO. - - - - - - - - - - - -	Plotted Date: 8/5/2015 Filename: ...FD_MST_STR_0111_0121_S005.dgn			



LEGEND

- I.J. - 1/2" WIDE ISOLATION JOINT ALONG PERIMETER WALLS AND BOTH SIDES OF INTERIOR WALLS. REFER TO WALL SECTIONS.
- C.J. - CONTROL JOINT AS SHOWN ON SLAB PLAN
- V.L. - VALLEY LINE IN FLOOR DRAINAGE
- S.O.G. - SLAB-ON-GRADE
- T.D. - TRENCH DRAIN ASSEMBLY WITH GRATE COVER
- FD - FLOOR DRAIN

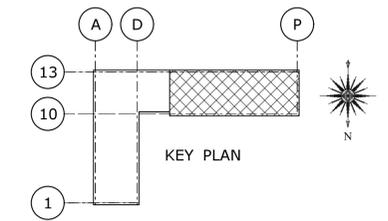
SLAB NOTES

1. FOR ELEVATION OF DRAINS, SEE PLUMBING DRAWINGS.
2. W.W.R. REINFORCEMENT SHALL BE PLACED IN THE TOP THIRD OF THE SLAB.
3. PLACE VAPOR BARRIER UNDER SLAB (TYP.)
4. IF ACCORDING TO THE ENGINEER, CONSTRUCTION JOINTS BECOME NECESSARY, THEY ARE TO BE CONSTRUCTED USING THE CONSTRUCTION JOINT DETAIL SHOWN ON DRAWING S-019.
5. CONTROL JOINTS FORMED BY SAWCUT SHALL BE EFFECTED AT NO LATER THAN 6 HOURS AFTER CONCRETE HAS SET.
6. REFER TO MISCELLANEOUS CONCRETE DETAILS, S-019, FOR ALL APPLICABLE DETAILS IN THE CONSTRUCTION OF SLAB AND WALLS, UNLESS NOTED OTHERWISE.
7. SLOPE FLOOR TO DRAIN WITH 1FT. RADIUS OF DRAIN EDGE. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION AND DRAIN ELEVATION (TYP.)
8. 6-INCH THICK SLAB-ON-GRADE (WITH 6 X 6 W4.0/4.0) ON APPROVED VAPOR BARRIER ON 6-INCH COMPACTED GRANULAR FILL (TYP. THROUGHOUT)
9. REFER TO MECHANICAL AND PLUMBING SHEETS FOR THE EXACT LOCATIONS OF TRENCH DRAINS.

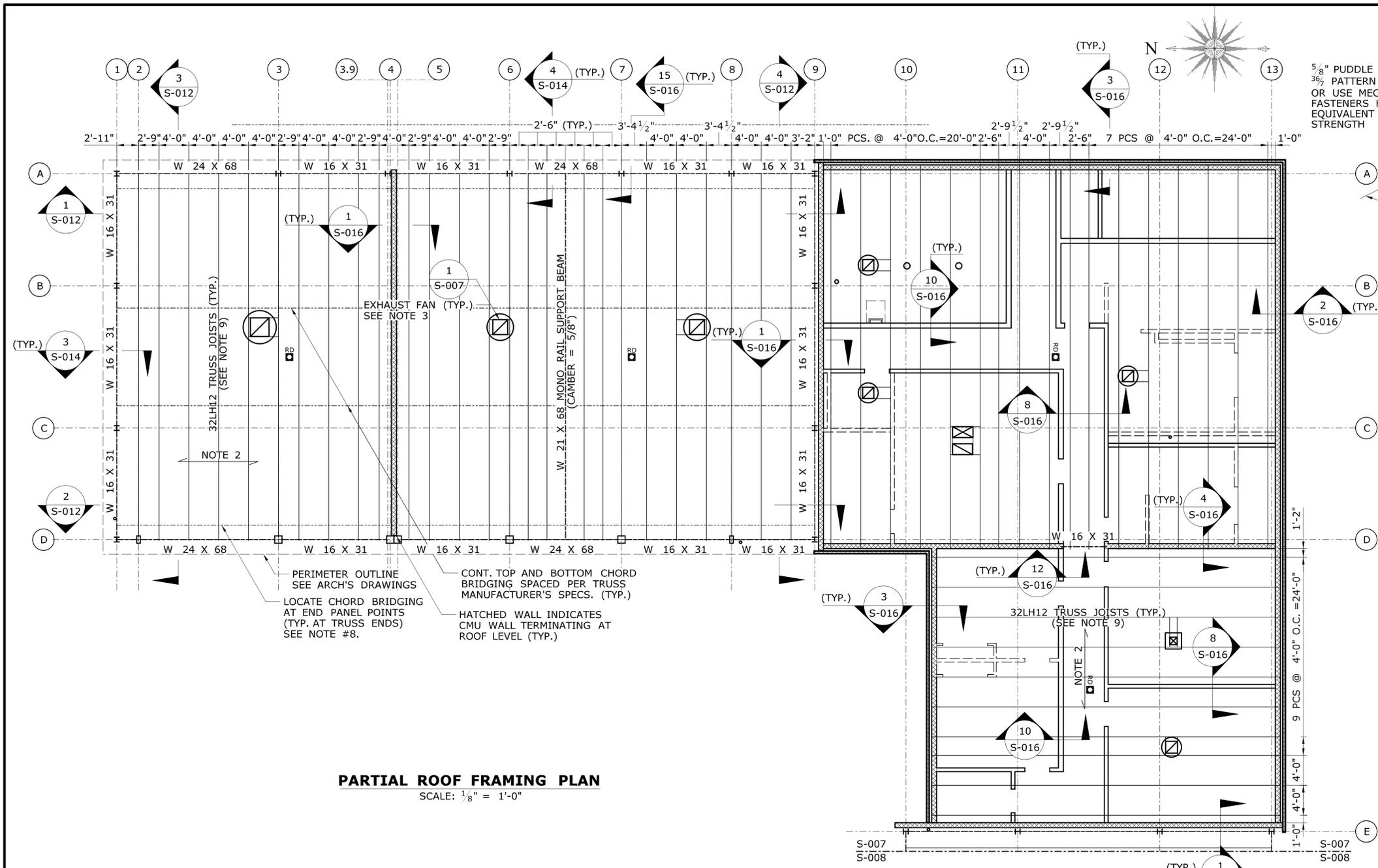
EQUIPMENT PADS NOTES

1. THE CONTRACTOR MUST VERIFY THE REQUIRED AREA OF PAD TO SUPPORT EACH EQUIPMENT FROM THE RESPECTIVE EQUIPMENT MANUFACTURER.
2. THE CONTRACTOR MUST COORDINATE THESE LAYOUTS WITH THE MECHANICAL ENGINEER'S AND ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENTS.
3. ALL VERTICAL AND HORIZONTAL EDGES OF THE PADS THAT ARE EXPOSED TO TRAVEL PATHS MUST HAVE A 3/4" X 3/4" CHAMFER.

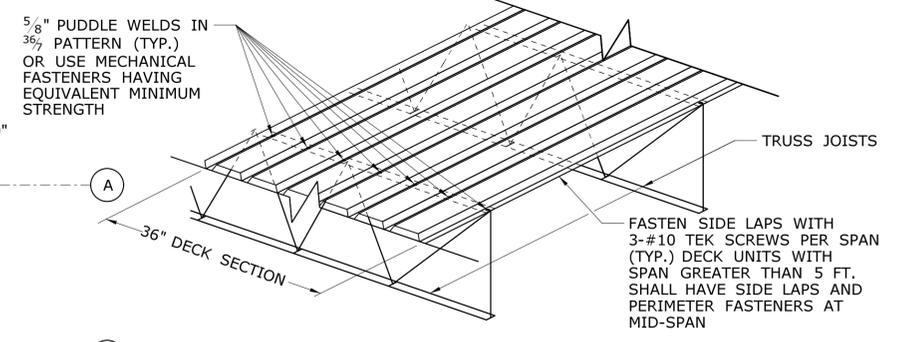
PARTIAL SLAB PLAN
SCALE: 1/8" = 1'-0"



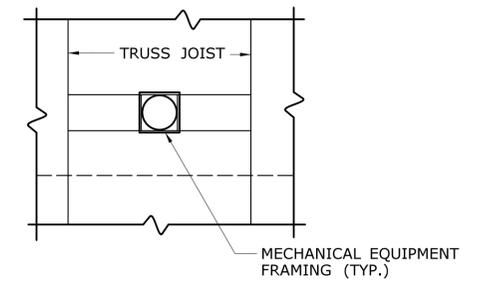
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: DCS CHECKED BY: RPL SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...FD_MST_STR_0111_0121_S006.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121 DRAWING NO. S-006 SHEET NO. 06.06
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015			



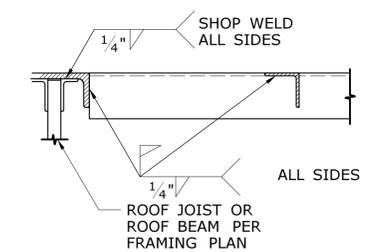
PARTIAL ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



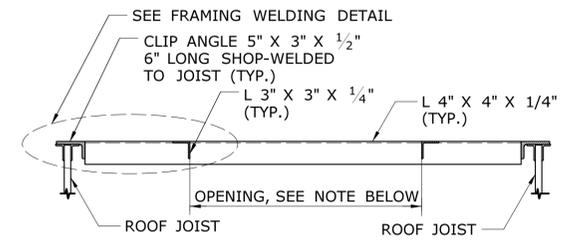
ISOMETRIC STEEL DECK AT JOIST INTERFACE
N.T.S.



DETAIL TYP. 1
SCALE: 1/2" = 1'-0" S-007



FRAMING WELDING DETAIL
SCALE: 3/4" = 1'-0"

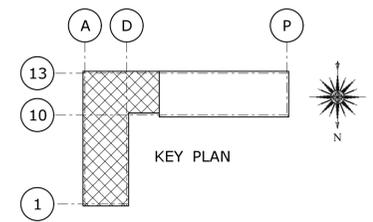


FRAMING AT DECK OPENING (TYP.)
SCALE: 3/4" = 1'-0"

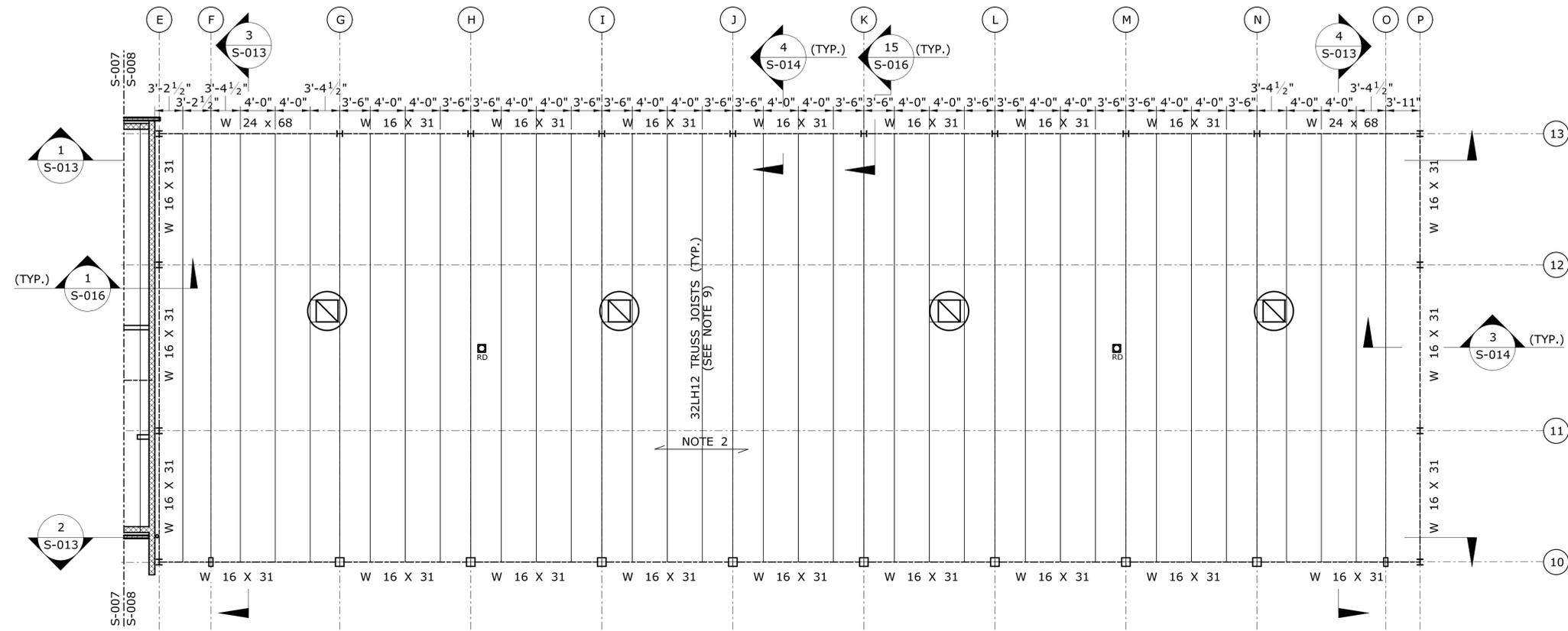
- METAL ROOF DECK NOTES:**
1. THE STEEL DECKING HAS BEEN DESIGNED TO ACT AS A ROOF-SHEAR DIAPHRAGM.
 2. ROOF DECK SHALL BE 1 1/2" WIDE RIB, 18 GAUGE STEEL TYPE B, WITH MINIMUM YIELD STRENGTH OF 33 ksi. SUPPORT FASTENERS: 5/8" PUDDLE WELDS SIDELAP FASTENERS: 3-#10 TEK SCREWS
 3. FOR ALL ROOF DECK PENETRATIONS, USE DETAIL FRAMING AT DECK OPENING (TYP.) ON S-007. THE EXACT LOCATIONS OF ROOF OPENINGS FOR MECHANICAL AND ELECTRICAL INSTALLATIONS SHALL BE REFERRED TO THE MECHANICAL AND ELECTRICAL DRAWING SHEETS.
 4. NO SUBSTITUTION OF FASTENER TYPE OR PATTERN SHOULD BE MADE WITHOUT THE APPROVAL OF THE DESIGNER.
 5. A MINIMUM OF 1 1/2" OF END BEARING SHOULD BE PROVIDED FOR THE METAL DECK AT ALL SUPPORTS.

6. FOR NON-LOAD-BEARING CMU WALLS TALLER THAN 12 FEET, REFER TO STANDARD DETAILS FOR "LATERAL BRACING FOR NON-BEARING CMU PARALLEL TO ROOF JOISTS" AND "LATERAL BRACING FOR NON-BEARING CMU PERPENDICULAR TO ROOF JOISTS" ON S-016 FOR WALL BRACING ONTO THE ROOF SYSTEM (TYPICAL U.N.O.).
7. PROVIDE CHORD BRIDGING AT END POINTS AT ALL TRUSS ENDS. INTERMEDIATE TOP AND BOTTOM CHORDS MANUFACTURER'S SPECIFICATIONS
8. ALL THE OPENINGS ALONG BEARING WALLS TO USE DOUBLE BACK-TO-BACK L 6 X 3 1/2 X 5/16 (TYP.)
9. ALL JOIST REACTIONS MUST BE LOCATED ON THE CENTERLINES OF BEAMS AND COLUMNS.
10. ALL TRUSS JOISTS SHALL BE 32LH12 SPACED AT MAXIMUM OF 48" ON CENTERS.

LEGEND	
	- ROOF VENTILATOR EXHAUST
	- ROOF DRAINS
	- CHIMNEY
	- VENTS
	- LOAD BEARING FULL HEIGHT WALL
	- NON LOAD BEARING FULL HEIGHT WALL
	- PARTITION WALL NON FULL HEIGHT



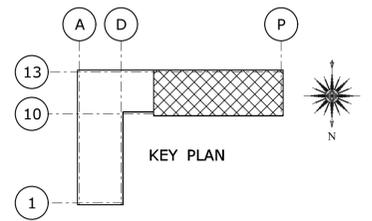
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	DESIGNER/DRAFTER: DCS	CHECKED BY: RPL	SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
										DRAWING TITLE: ROOF FRAMING PLAN-1	DRAWING NO. S-007
											SHEET NO. 06.07



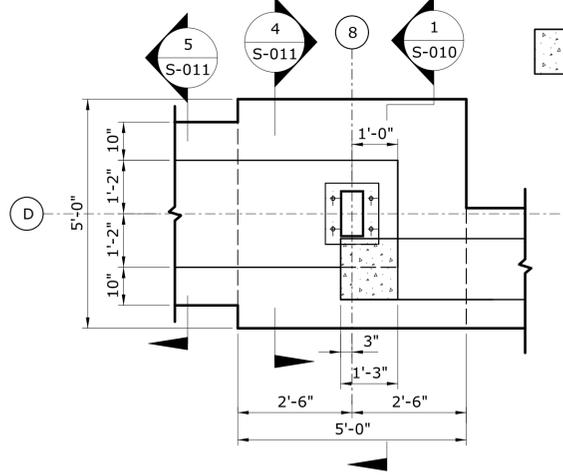
METAL ROOF DECK NOTES:

1. THE STEEL DECKING HAS BEEN DESIGNED TO ACT AS A ROOF-SHEAR DIAPHRAGM.
2. ROOF DECK SHALL BE 1 1/2" WIDE RIB, 18 GAUGE STEEL TYPE B, WITH MINIMUM YIELD STRENGTH OF 33 ksi. SUPPORT FASTENERS: 5/8" PUDDLE WELDS SIDELAP FASTENERS: 3-#10 TEK SCREWS
3. FOR ALL ROOF DECK PENETRATIONS, USE DETAIL FRAMING AT DECK OPENING (TYP.) ON S-007. THE EXACT LOCATIONS OF ROOF OPENINGS FOR MECHANICAL AND ELECTRICAL INSTALLATIONS SHALL BE REFERRED TO THE MECHANICAL AND ELECTRICAL DRAWING SHEETS.
4. NO SUBSTITUTION OF FASTENER TYPE OR PATTERN SHOULD BE MADE WITHOUT THE APPROVAL OF THE DESIGNER.
5. A MINIMUM OF 1 1/2" OF END BEARING SHOULD BE PROVIDED FOR THE METAL DECK AT ALL SUPPORTS.
6. FOR NON-LOAD-BEARING CMU WALLS TALLER THAN 12 FEET, REFER TO STANDARD DETAILS FOR "LATERAL BRACING FOR NON-BEARING CMU PARALLEL TO ROOF JOISTS" AND "LATERAL BRACING FOR NON-BEARING CMU PERPENDICULAR TO ROOF JOISTS" ON S-016 FOR WALL BRACING ONTO THE ROOF SYSTEM (TYPICAL U.N.O.).
7. PROVIDE CHORD BRIDGING AT END POINTS AT ALL TRUSS ENDS. INTERMEDIATE TOP AND BOTTOM CHORDS MANUFACTURER'S SPECIFICATIONS
8. ALL THE OPENINGS ALONG BEARING WALLS TO USE DOUBLE BACK-TO-BACK L 6 X 3 1/2 X 5/16 (TYP.)
9. ALL JOIST REACTIONS MUST BE LOCATED ON THE CENTERLINES OF BEAMS AND COLUMNS.
10. ALL TRUSS JOISTS SHALL BE 32LH12 SPACED AT MAXIMUM OF 48" ON CENTERS.

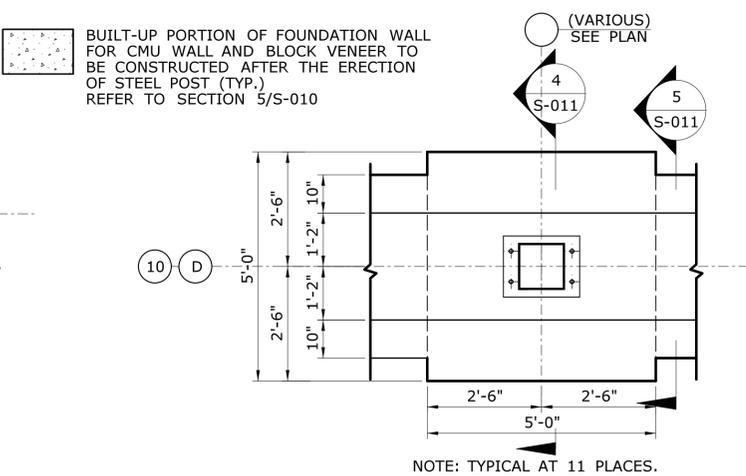
LEGEND	
	- ROOF VENTILATOR EXHAUST
	- ROOF DRAINS
	- CHIMNEY
	- VENTS
	- LOAD BEARING FULL HEIGHT WALL
	- NON LOAD BEARING FULL HEIGHT WALL
	- PARTITION WALL NON FULL HEIGHT



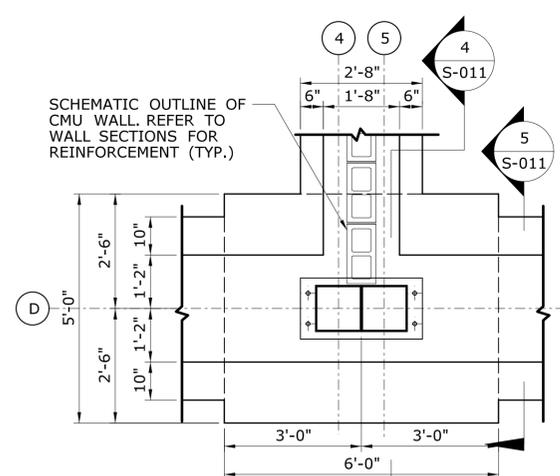
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: DCS	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 8/5/2015	CHECKED BY: RPL		APPROVED BY: 		DRAWING TITLE: ROOF FRAMING PLAN-2	DRAWING NO. S-008



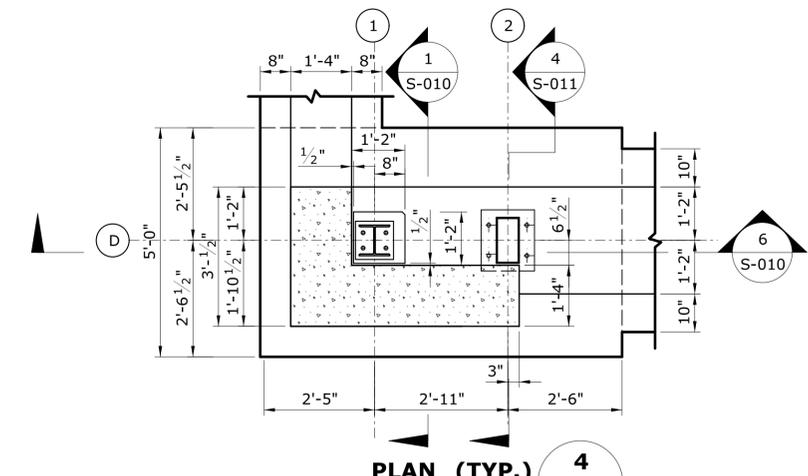
PLAN (TYP.) 1
SCALE: 1/2" = 1'-0" **S-009**



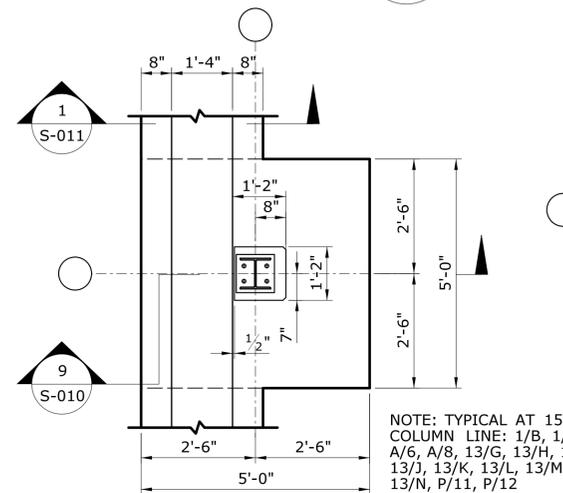
PLAN (TYP.) 2
SCALE: 1/2" = 1'-0" **S-009**



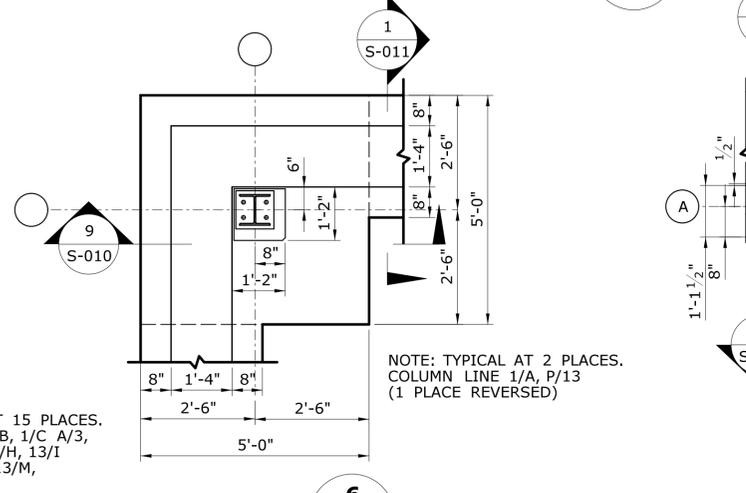
PLAN (TYP.) 3
SCALE: 1/2" = 1'-0" **S-009**



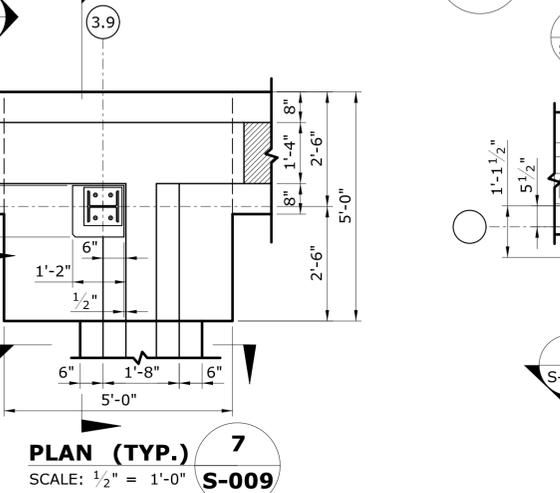
PLAN (TYP.) 4
SCALE: 1/2" = 1'-0" **S-009**



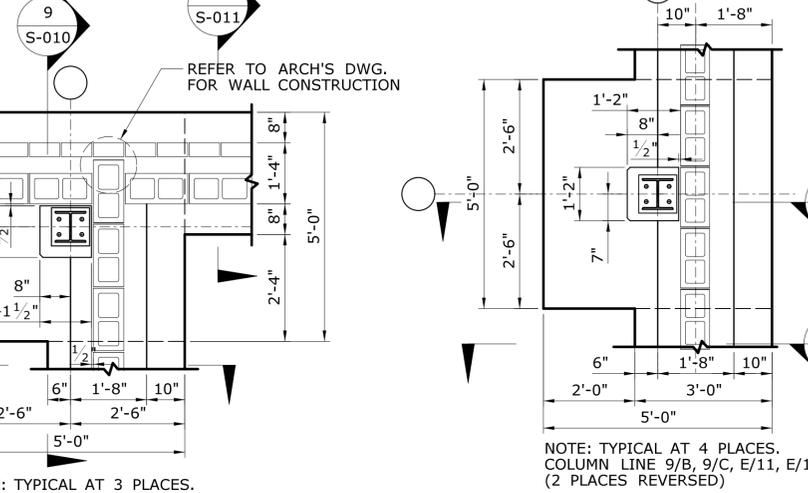
PLAN (TYP.) 5
SCALE: 1/2" = 1'-0" **S-009**



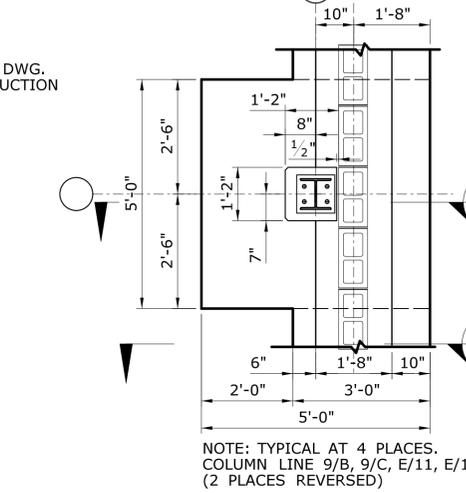
PLAN (TYP.) 6
SCALE: 1/2" = 1'-0" **S-009**



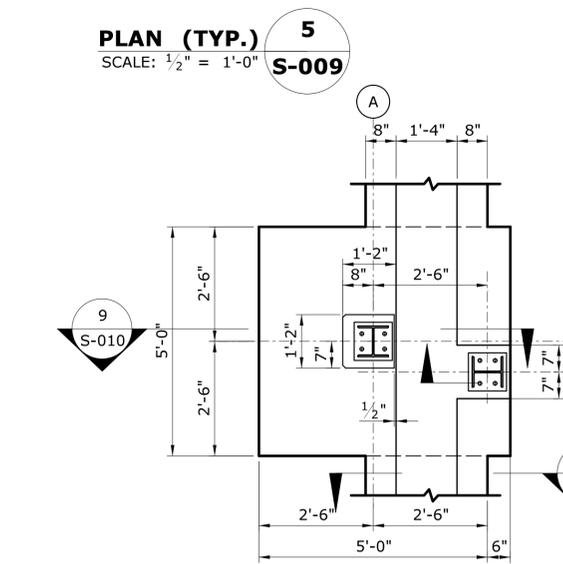
PLAN (TYP.) 7
SCALE: 1/2" = 1'-0" **S-009**



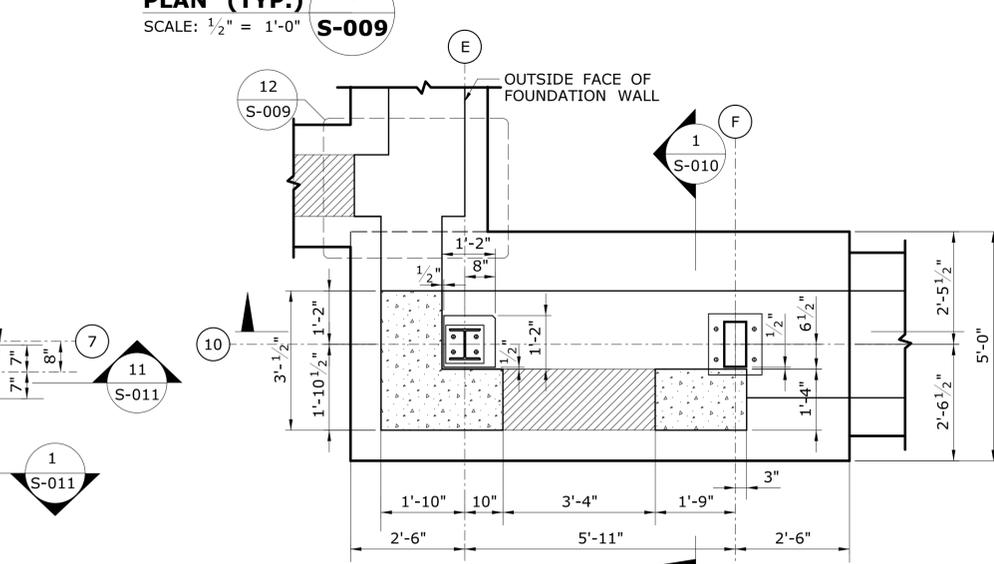
PLAN (TYP.) 8
SCALE: 1/2" = 1'-0" **S-009**



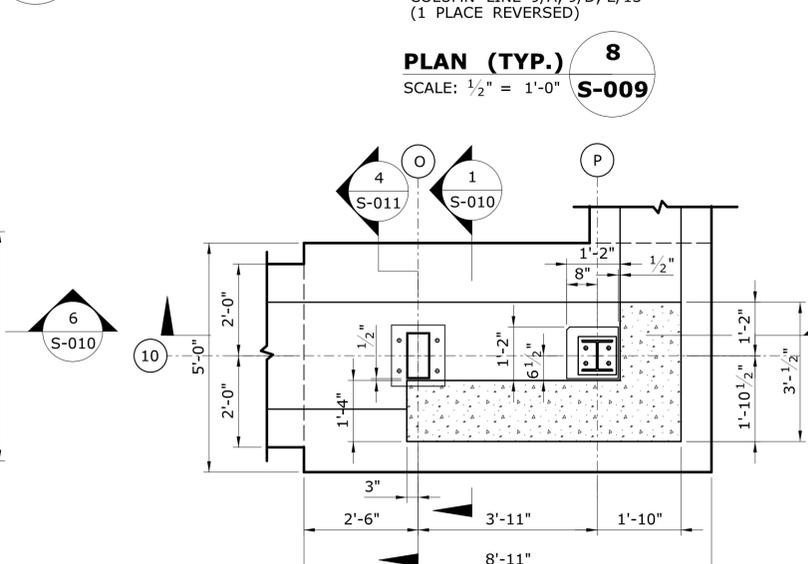
PLAN (TYP.) 9
SCALE: 1/2" = 1'-0" **S-009**



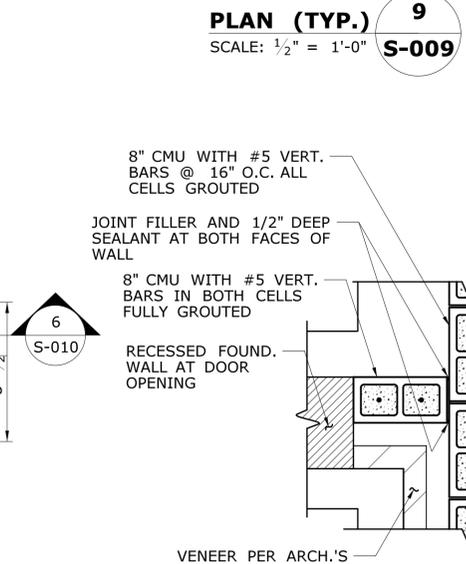
PLAN (TYP.) 5A
SCALE: 1/2" = 1'-0" **S-009**



PLAN (TYP.) 10
SCALE: 1/2" = 1'-0" **S-009**



PLAN (TYP.) 11
SCALE: 1/2" = 1'-0" **S-009**



DETAIL 12
S-009

BUILT-UP PORTION OF FOUNDATION WALL FOR CMU WALL AND BLOCK VENEER TO BE CONSTRUCTED AFTER THE ERECTION OF STEEL POST (TYP.) REFER TO SECTION 5/S-010

(VARIOUS) SEE PLAN

SCHEMATIC OUTLINE OF CMU WALL. REFER TO WALL SECTIONS FOR REINFORCEMENT (TYP.)

REFER TO ARCH'S DWG. FOR WALL CONSTRUCTION

NOTE: TYPICAL AT 15 PLACES. COLUMN LINE: 1/B, 1/C, A/3, A/6, A/8, 13/G, 13/H, 13/I, 13/J, 13/K, 13/L, 13/M, 13/N, P/11, P/12

NOTE: TYPICAL AT 2 PLACES. COLUMN LINE 1/A, P/13 (1 PLACE REVERSED)

NOTE: TYPICAL AT 3 PLACES. COLUMN LINE 9/A, 9/D, E/13 (1 PLACE REVERSED)

NOTE: TYPICAL AT 4 PLACES. COLUMN LINE 9/B, 9/C, E/11, E/12 (2 PLACES REVERSED)

8" CMU WITH #5 VERT. BARS @ 16" O.C. ALL CELLS GROUDED

JOINT FILLER AND 1/2" DEEP SEALANT AT BOTH FACES OF WALL

8" CMU WITH #5 VERT. BARS IN BOTH CELLS FULLY GROUDED

RECESSED FOUND. WALL AT DOOR OPENING

VENEER PER ARCH.'S DRAWINGS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **DCS**
CHECKED BY: **RPL**
SCALE AS NOTED

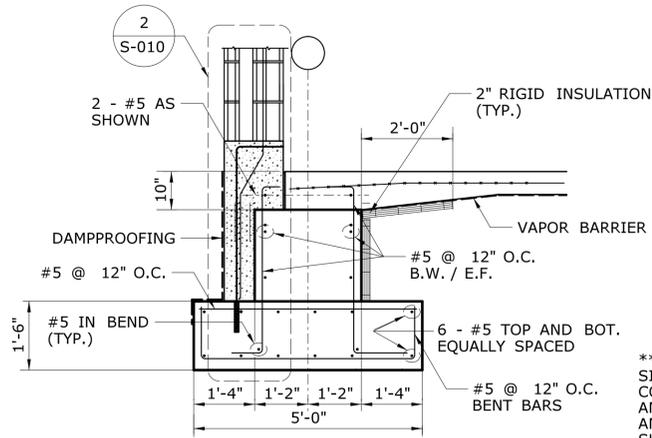
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
APPROVED BY: *[Signature]*

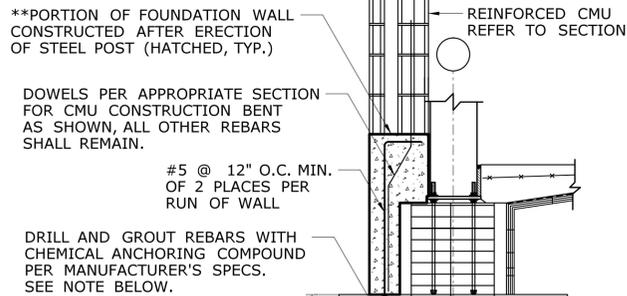
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TOWN: **POMFRET**
DRAWING TITLE: **FOUNDATION DETAILS-1**

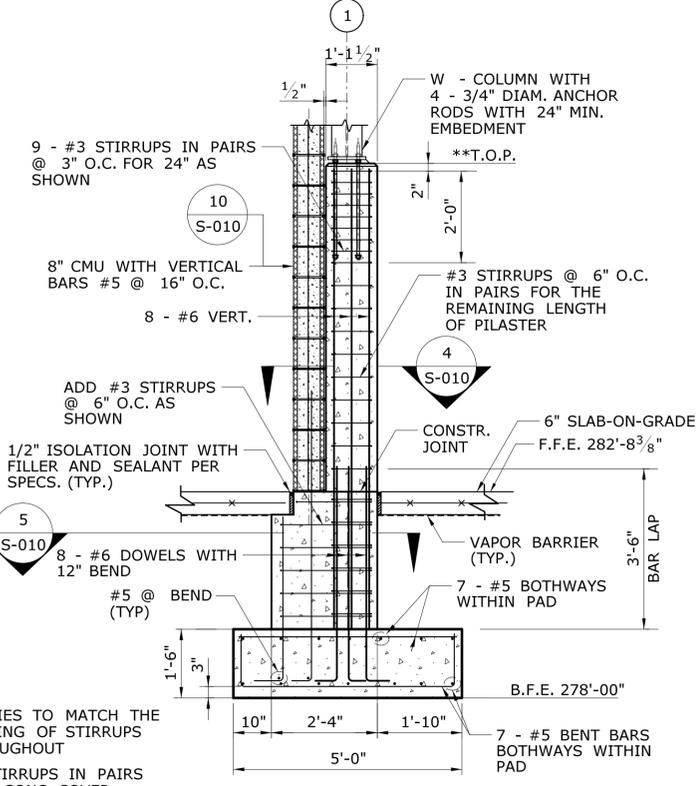
PROJECT NO. **111-121**
DRAWING NO. **S-009**
SHEET NO. **06.09**



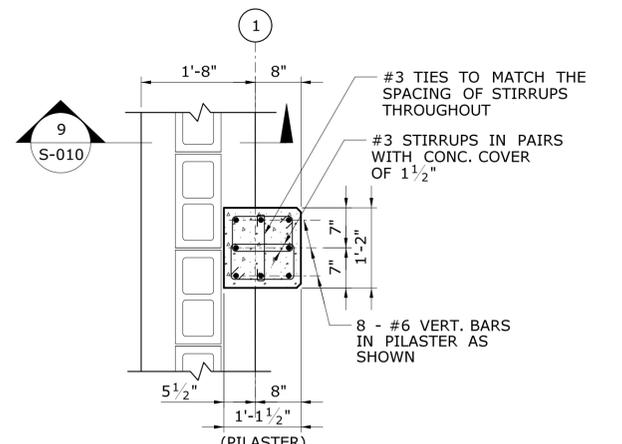
SECTION 1 (TYP.)
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S-010



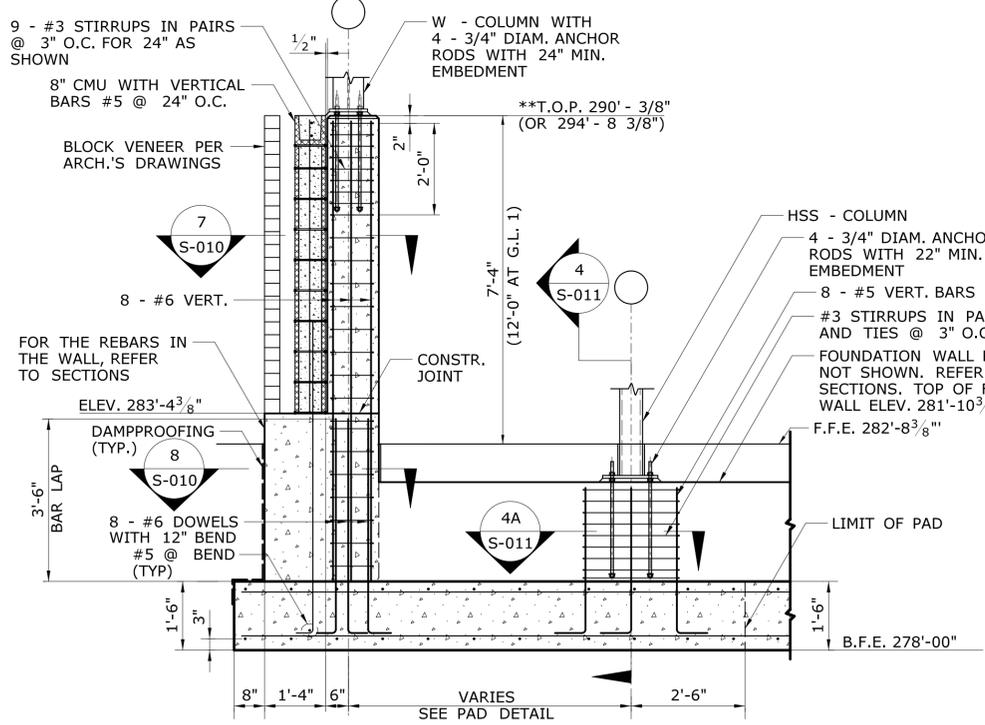
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S-010



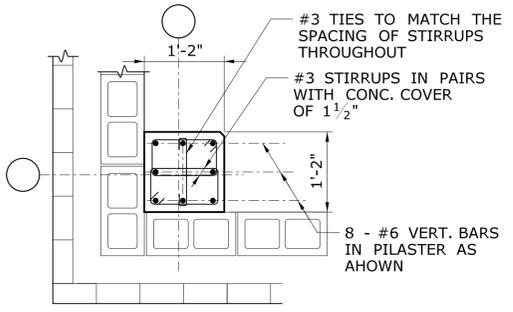
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S-010



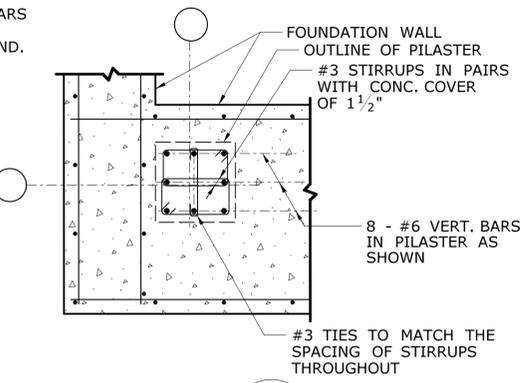
SECTION 4 (TYP.)
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S-010



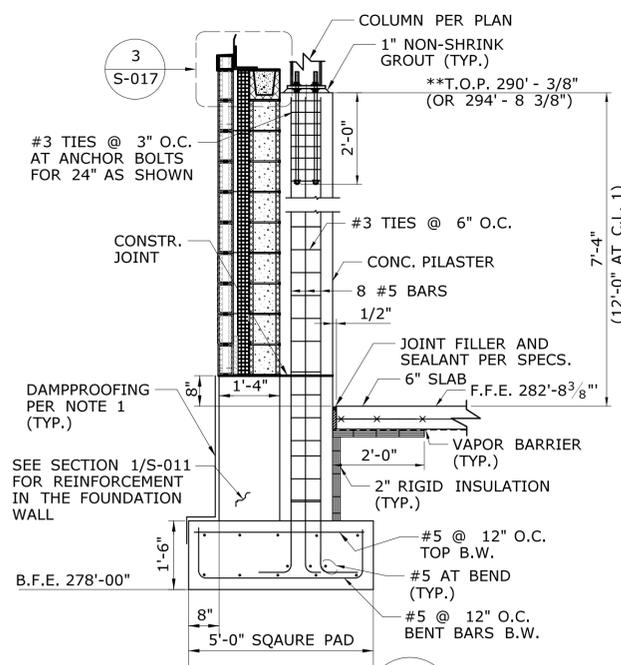
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SCALE: 1/2" = 1'-0"
S-010



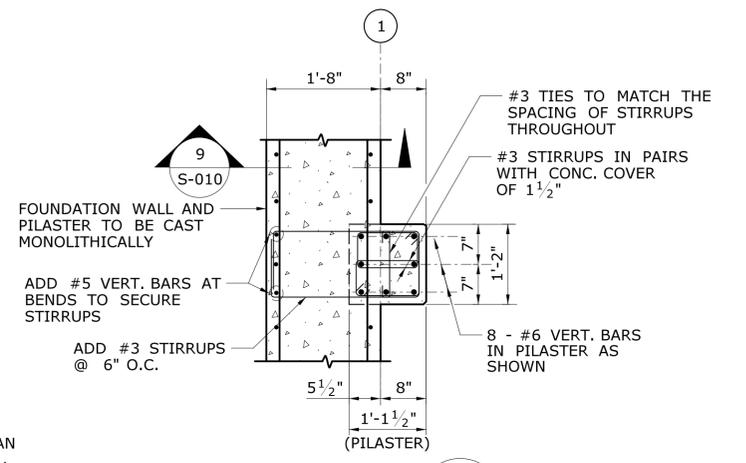
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SCALE: 3/4" = 1'-0"
S-010



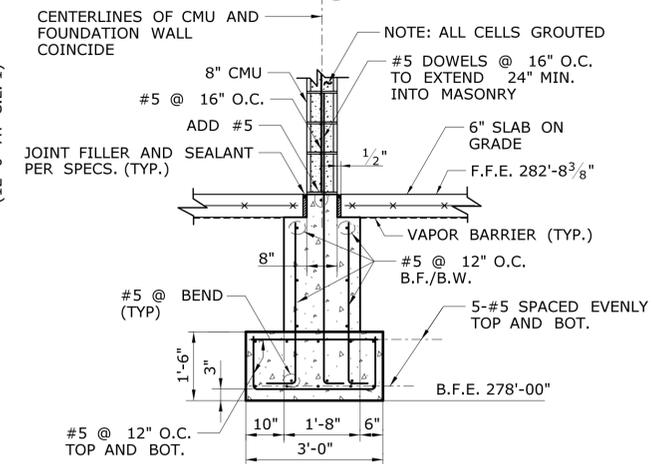
SECTION 8 (TYP.)
SCALE: 3/4" = 1'-0"
S-010



SECTION 9 (TYP.)
SCALE: 1/2" = 1'-0"
S-010



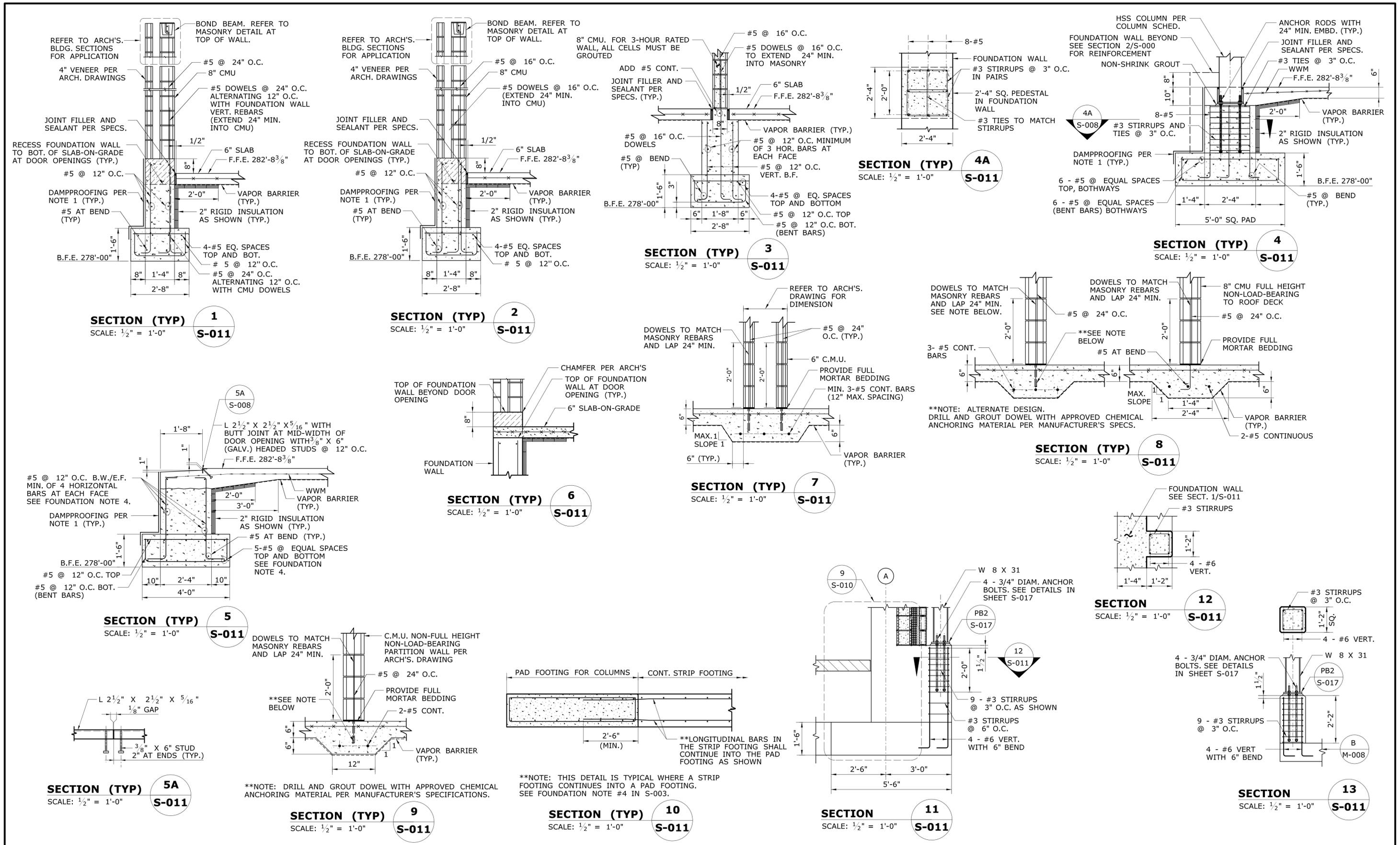
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S-010



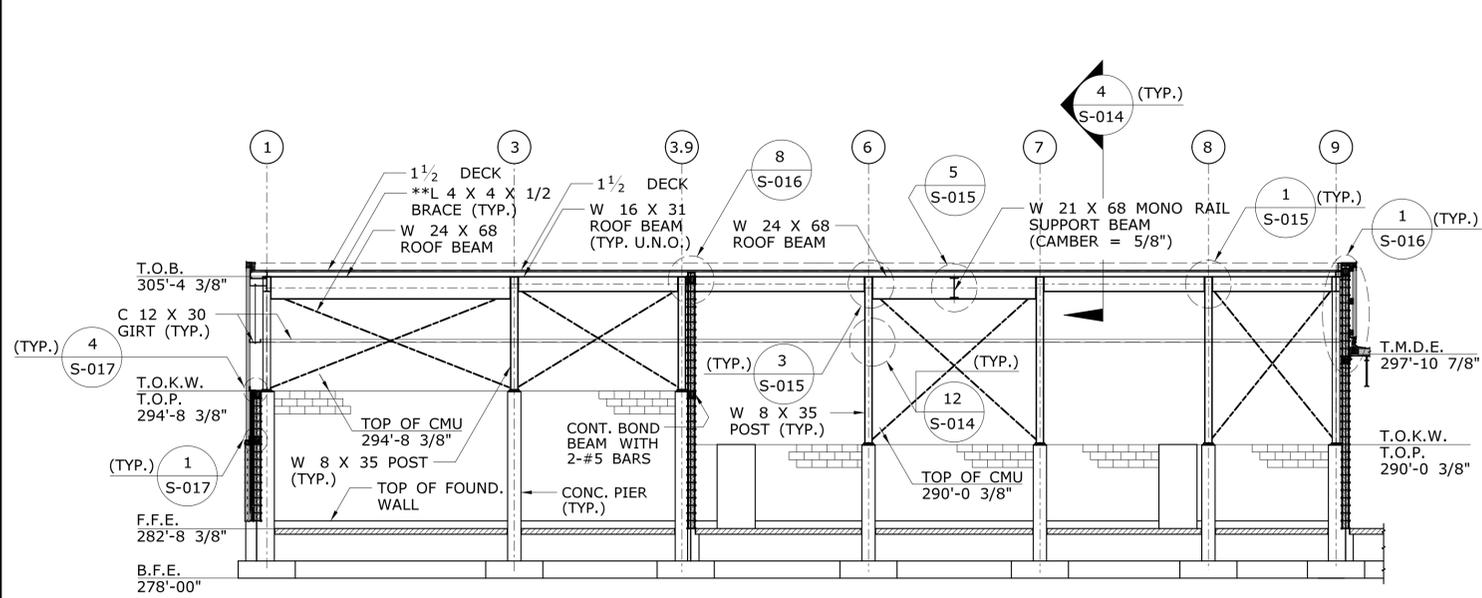
SECTION 10 (TYP.)
SCALE: 1/2" = 1'-0"
S-010

****NOTE: FOR THE ELEVATION AT THE TOP OF PEDESTAL, REFER TO FRAME ELEVATION DRAWINGS IN S-012 AND S-013.**

DESIGNER/DRAFTER: DCS	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
CHECKED BY: RPL		APPROVED BY: 	DRAWING TITLE: FOUNDATION DETAILS-2	DRAWING NO. S-010	SHEET NO. 06.10
SCALE AS NOTED	Plotted Date: 8/5/2015	Filename: ...FD_MST_STR_0111_0121_S010.dgn			

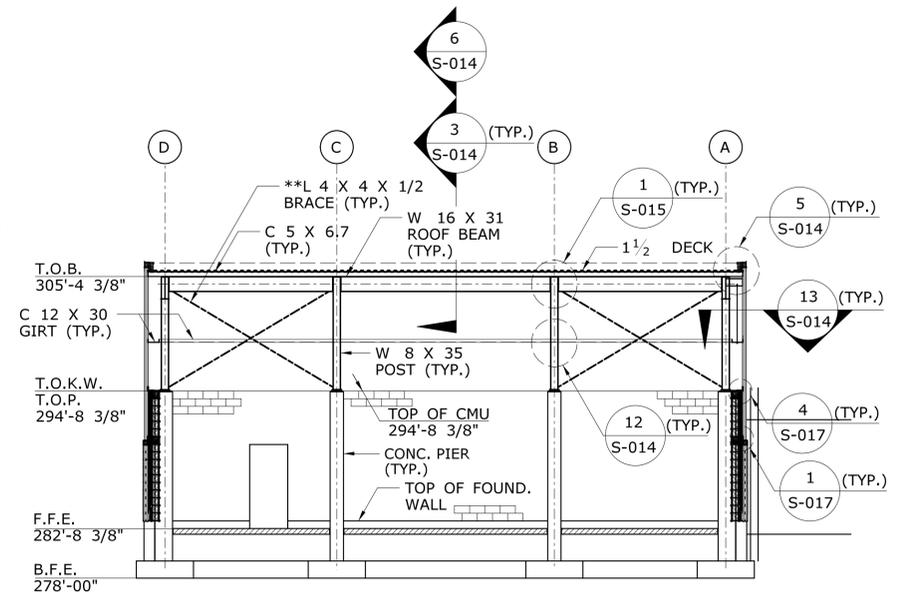


DESIGNER/DRAFTER: DCS	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
CHECKED BY: RPL		APPROVED BY: <i>[Signature]</i>	DRAWING NO. S-011	DRAWING TITLE: FOUNDATION DETAILS-3	SHEET NO. 06.11
SCALE AS NOTED	Filename: ...FD_MST_STR_0111_0121_S011.dgn				



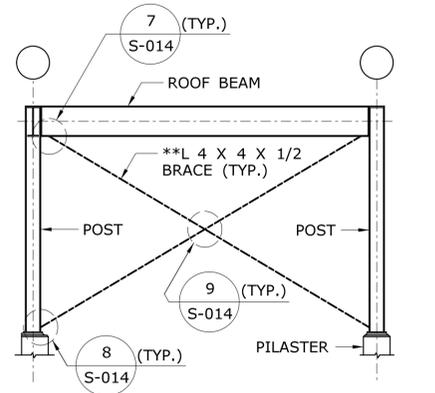
**NOTE: REFER TO DETAIL 5/S-012 FOR TYPICAL CONNECTION DETAILS OF CROSS BRACE SYSTEM.

FRAME ALONG GRIDLINE A
SCALE: 1/8" = 1'-0"
1
S-012



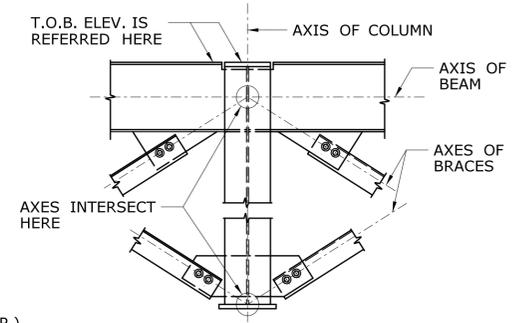
**NOTE: REFER TO DETAIL 5/S-012 FOR TYPICAL CONNECTION DETAILS OF CROSS BRACE SYSTEM.

FRAME ALONG GRIDLINE 1
SCALE: 1/8" = 1'-0"
3
S-012

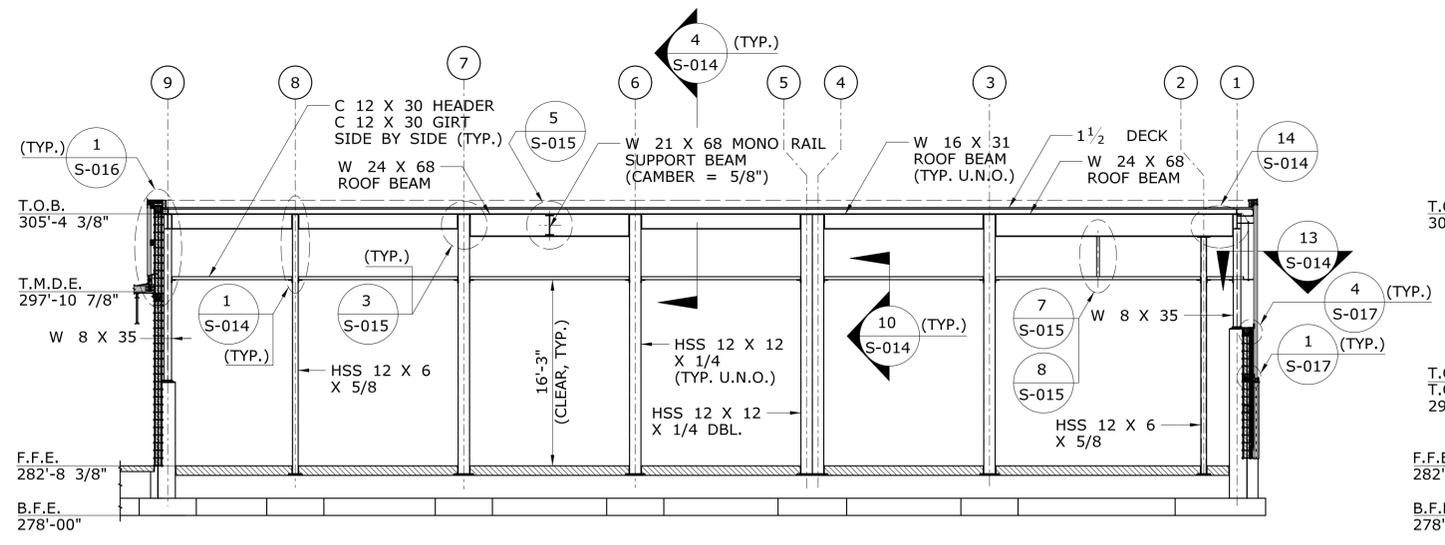


**NOTE: REFER TO "WORKING POINTS FOR CROSS BRACES (TYP.)" THIS SHEET.

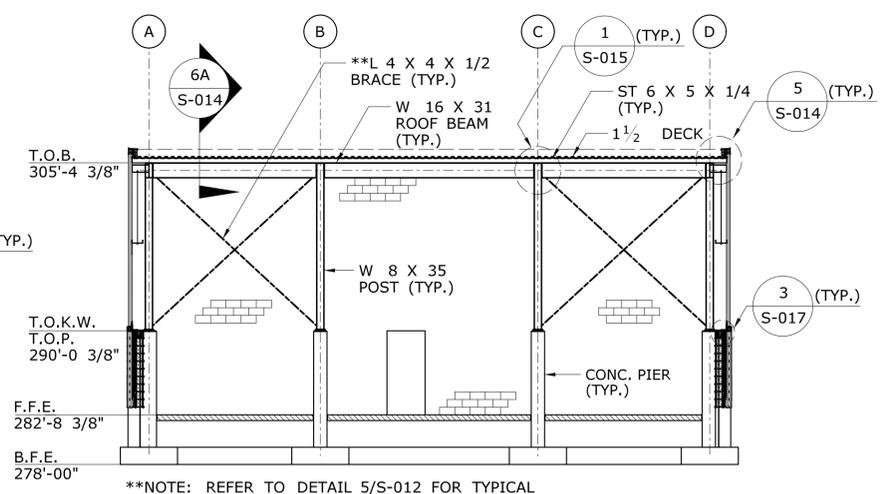
CONNECTIONS AT FRAMES (TYP.)
5
S-012



WORKING POINTS FOR CROSS BRACES (TYP.)



FRAME ALONG GRIDLINE D
SCALE: 1/8" = 1'-0"
2
S-012



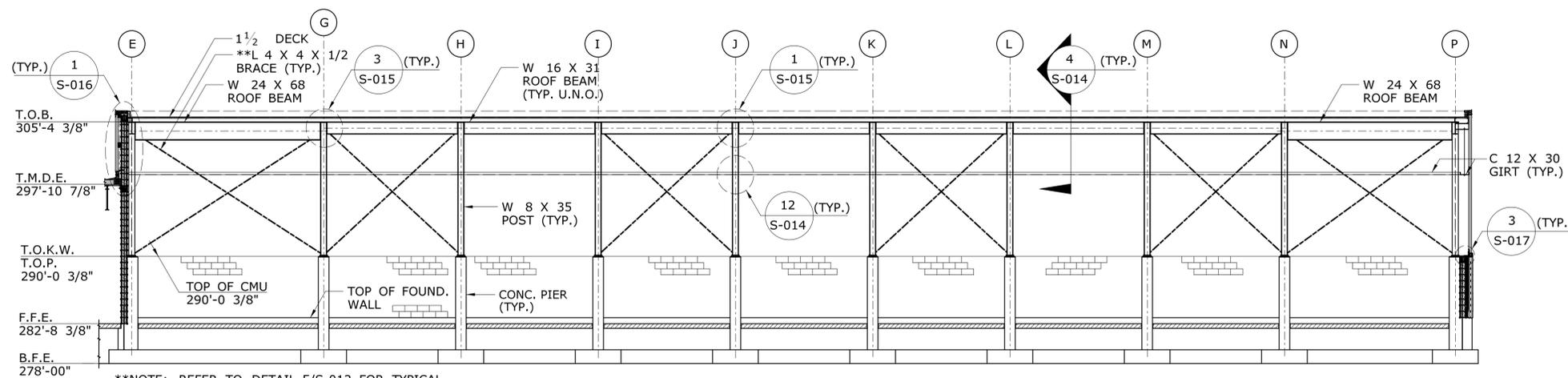
**NOTE: REFER TO DETAIL 5/S-012 FOR TYPICAL CONNECTION DETAILS OF CROSS BRACE SYSTEM.

FRAME ALONG GRIDLINE 9
SCALE: 1/8" = 1'-0"
4
S-012

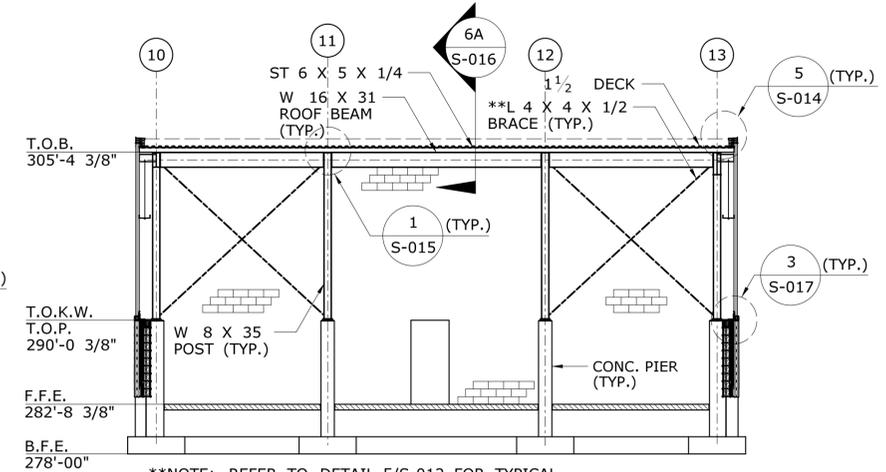
ABBREVIATIONS:

- T.O.B. - TOP OF BEAM
- T.O.P. - TOP OF PIER
- T.O.K.W. - TOP OF KNEE WALL
- T.M.D.E. - TOP OF METAL DECK ELEVATION
- F.F.E. - FINISHED FLOOR ELEVATION
- B.F.E. - BOTTOM OF FOOTING ELEVATION

REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	DESIGNER/DRAFTER: RPL/DCS	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: <i>[Signature]</i>	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
				CHECKED BY: RPL		OFFICE OF ENGINEERING		DRAWING TITLE: FRAME ELEVATIONS-1	DRAWING NO. S-012
				SCALE AS NOTED	Filename: ...FD_MST_STR_0111_0121_S012.dgn	APPROVED BY: <i>[Signature]</i>			SHEET NO. 06.12



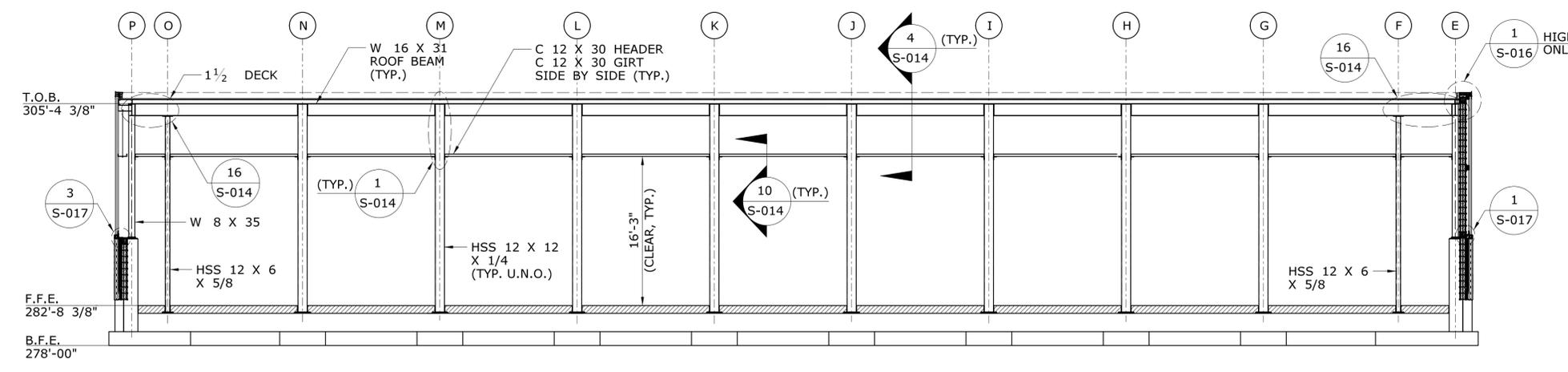
FRAME ALONG GRIDLINE 13
SCALE: 1/8" = 1'-0"
1
S-013



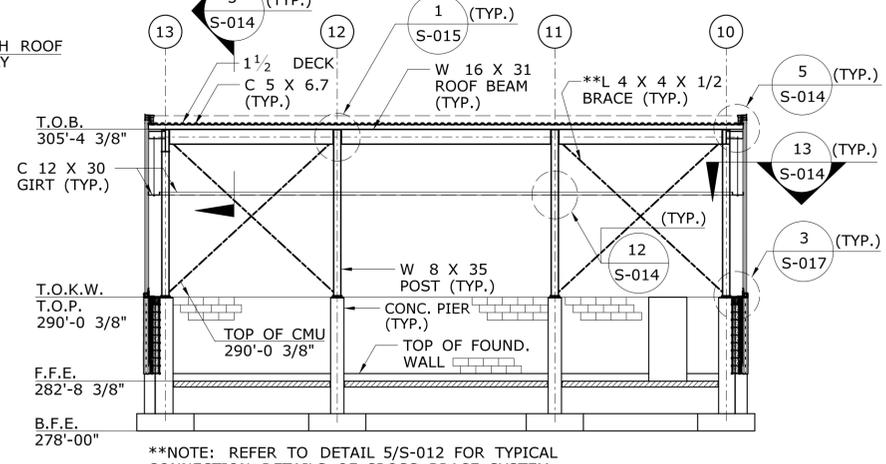
FRAME ALONG GRIDLINE E
SCALE: 1/8" = 1'-0"
3
S-013

ABBREVIATIONS:

T.O.B.	- TOP OF BEAM
T.O.P.	- TOP OF PIER
T.O.K.W.	- TOP OF KNEE WALL
T.M.D.E.	- TOP OF METAL DECK ELEVATION
F.F.E.	- FINISHED FLOOR ELEVATION
B.F.E.	- BOTTOM OF FOOTING ELEVATION

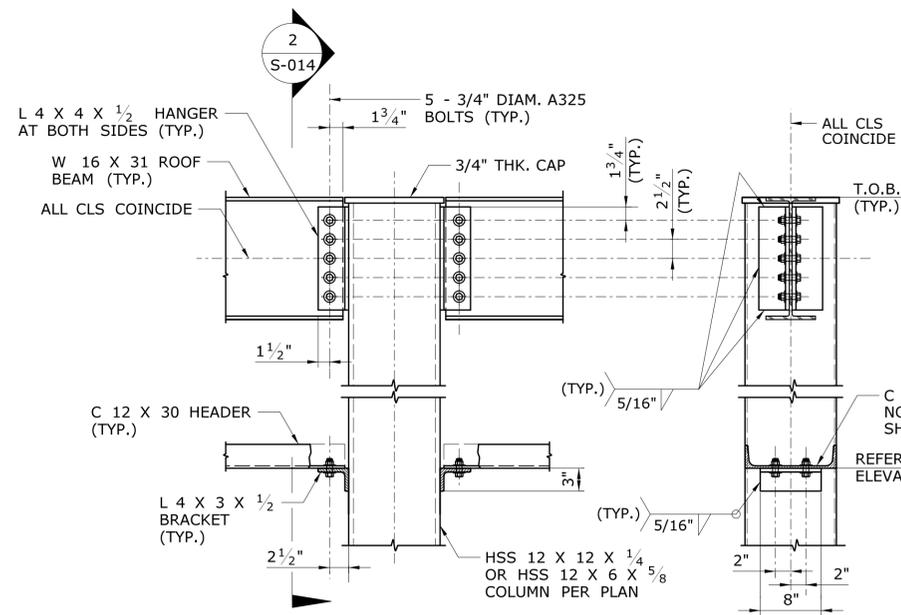


FRAME ALONG GRIDLINE 10
SCALE: 1/8" = 1'-0"
2
S-013



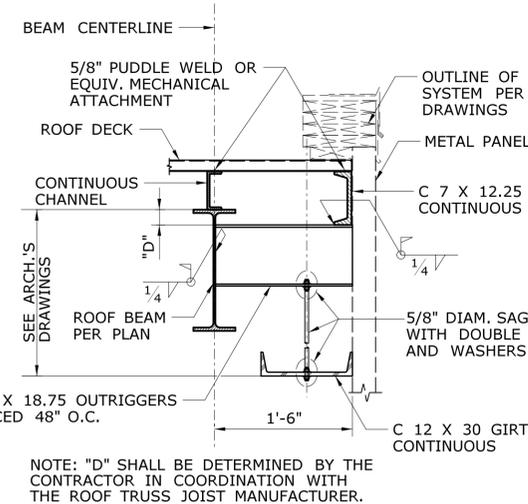
FRAME ALONG GRIDLINE P
SCALE: 1/8" = 1'-0"
4
S-013

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	DESIGNER/DRAFTER: DCS/RPL	CHECKED BY: RPL	SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...FD_MST_STR_0111_0121_S013.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: 	PROJECT TITLE: THE REHABILITATION OF THE POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
											DRAWING NO. S-013	
											SHEET NO. 06.13	
											DRAWING TITLE: FRAME ELEVATIONS-2	

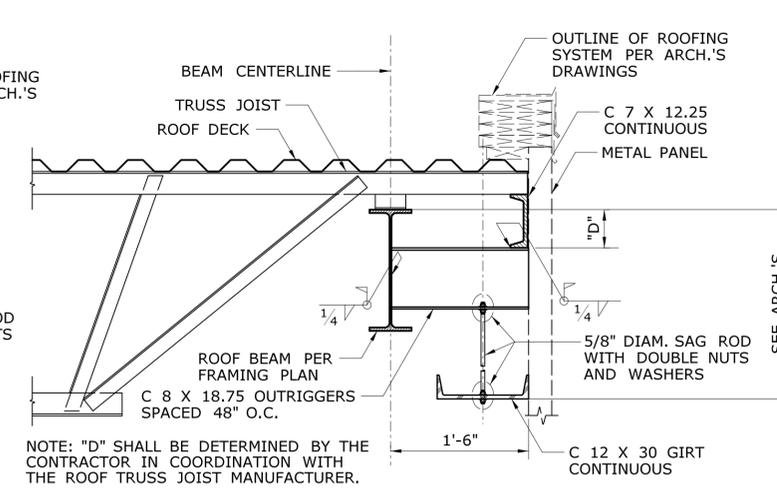


ELEVATION (TYP.) 1
SCALE: 1" = 1'-0"
S-014

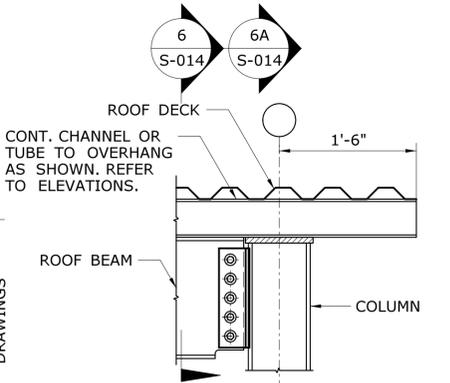
SECTION 2
SCALE: 1" = 1'-0"
S-014



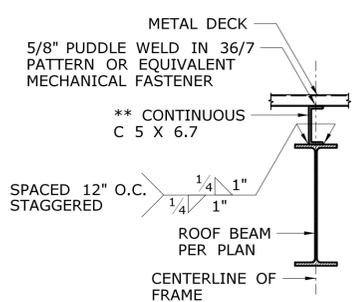
SECTION (TYP.) 3
SCALE: 1" = 1'-0"
S-014



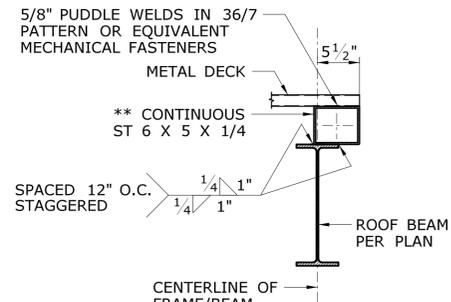
SECTION (TYP.) 4
SCALE: 1" = 1'-0"
S-014



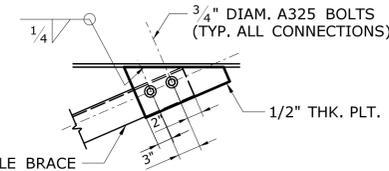
SECTION 5
SCALE: 1" = 1'-0"
S-014



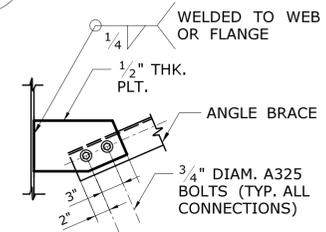
SECTION (TYP.) 6
SCALE: 1" = 1'-0"
S-014



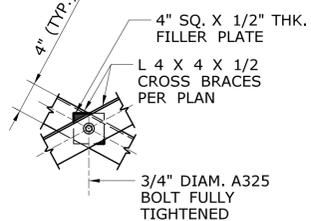
SECTION (TYP.) 6A
SCALE: 1" = 1'-0"
S-014



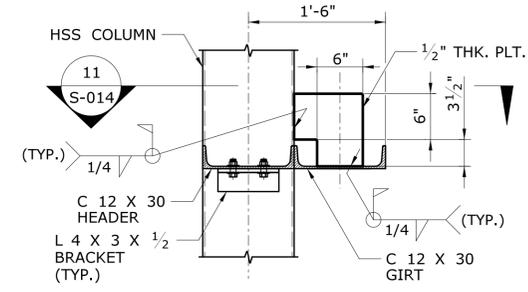
DETAIL 7
SCALE: 1" = 1'-0"
S-014



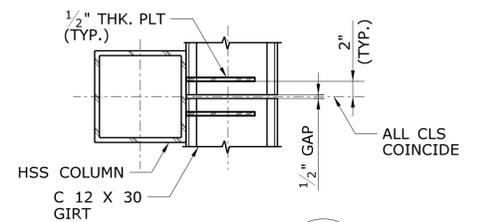
DETAIL 8
SCALE: 1" = 1'-0"
S-014



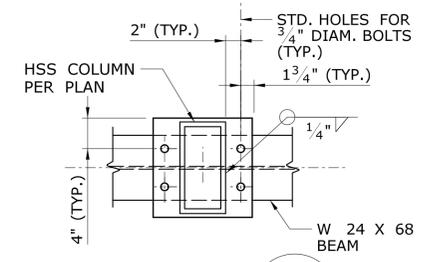
DETAIL 9
SCALE: 1" = 1'-0"
S-014



SECTION (TYP.) 10
SCALE: 1" = 1'-0"
S-014



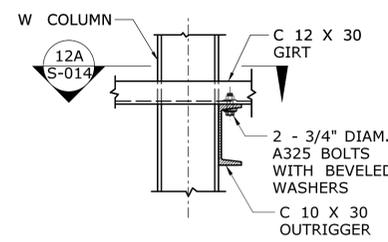
SECTION (TYP.) 11
SCALE: 1" = 1'-0"
S-014



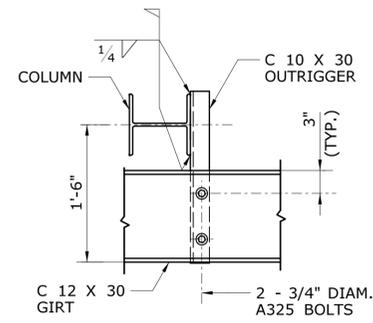
SECTION 15
SCALE: 1" = 1'-0"
S-014

**NOTE: THE ACTUAL DEPTH OF CHANNEL SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH THE ROOF TRUSS JOIST MANUFACTURER AND SHALL BE SPECIFIED IN THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.

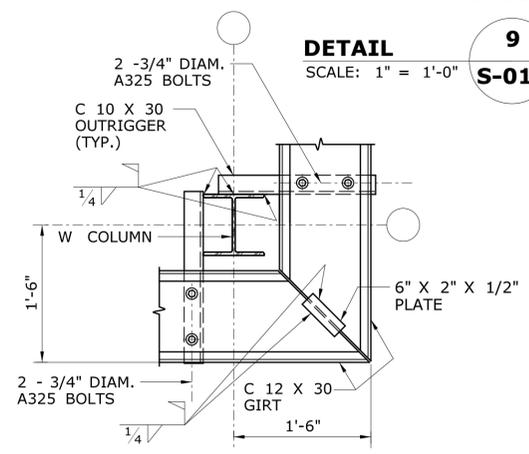
**NOTE: THE ACTUAL SIZE OF STRUCT. TUBE SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH THE ROOF TRUSS JOIST MANUFACTURER AND SHALL BE SPECIFIED IN THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.



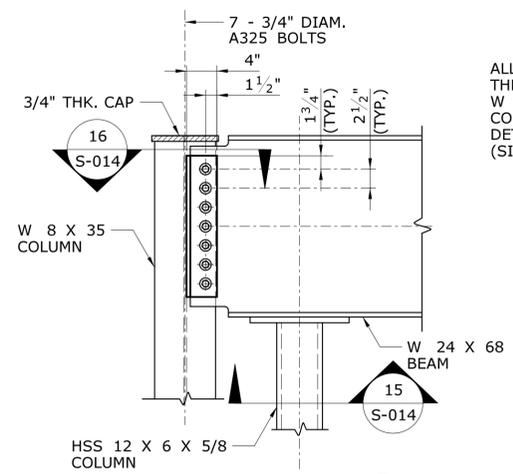
SECTION 12
SCALE: 1" = 1'-0"
S-014



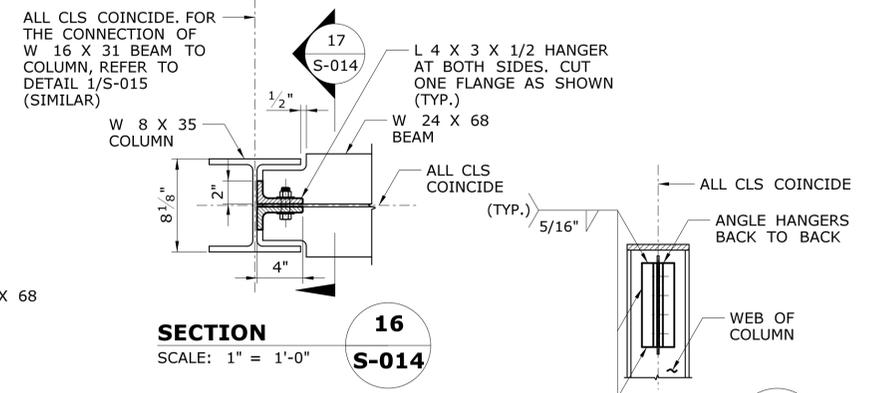
SECTION 12A
SCALE: 1" = 1'-0"
S-014



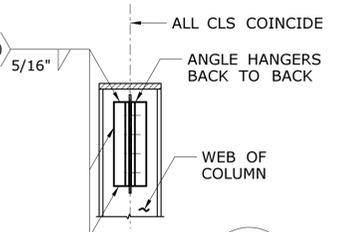
SECTION 13
SCALE: 1" = 1'-0"
S-014



SECTION 14
SCALE: 1" = 1'-0"
S-014

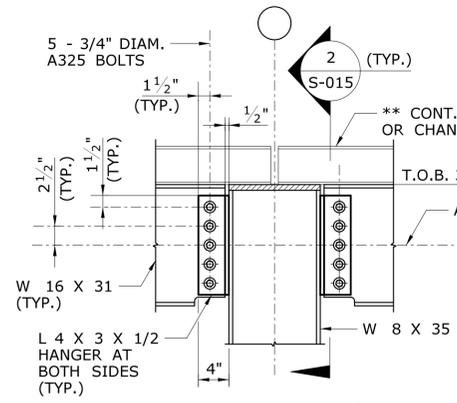


SECTION 16
SCALE: 1" = 1'-0"
S-014

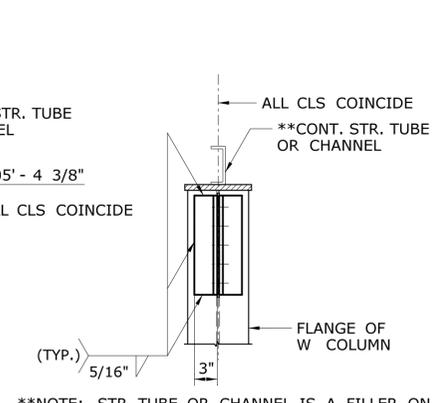


SECTION 17
SCALE: 1" = 1'-0"
S-014

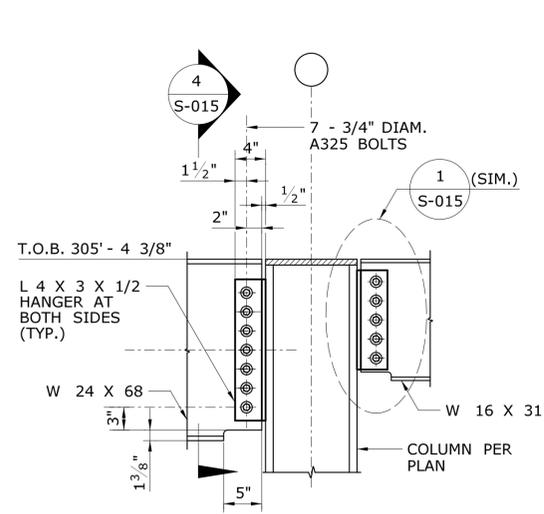
DESIGNER/DRAFTER: DCS	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
CHECKED BY: RPL		APPROVED BY: 	STEEL DETAILS-1	DRAWING NO. S-014	SHEET NO. 06.14
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	SCALE AS NOTED	Filename: ...FD_MST_STR_0111_0121_S014.dgn



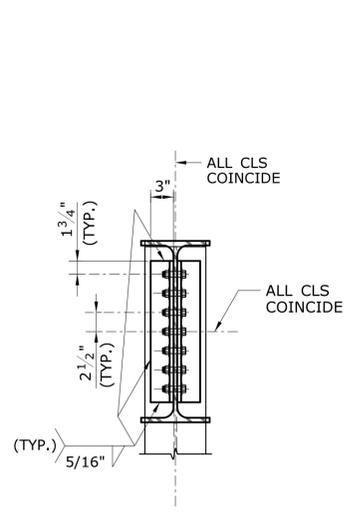
DETAIL 1
SCALE: 1" = 1'-0"
S-015



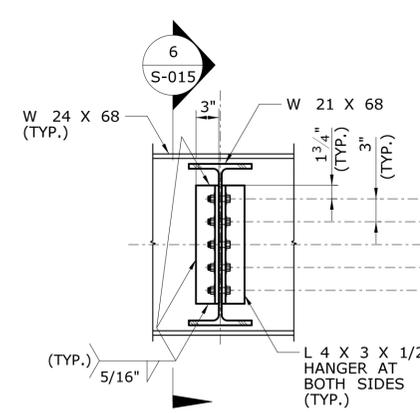
SECTION (TYP.) 2
SCALE: 1" = 1'-0"
S-015



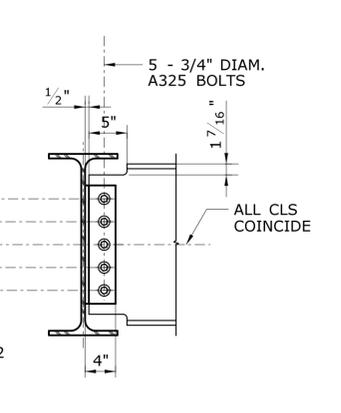
DETAIL 3
SCALE: 1" = 1'-0"
S-015



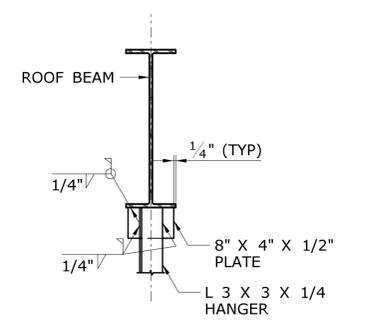
SECTION 4
SCALE: 1" = 1'-0"
S-015



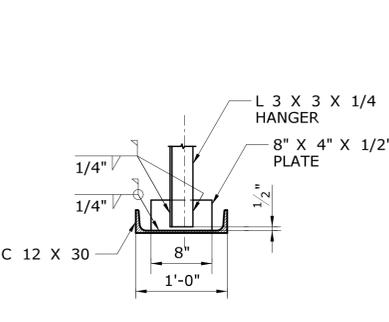
DETAIL 5
SCALE: 1" = 1'-0"
S-015



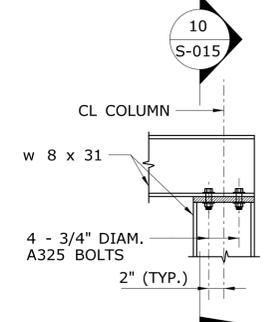
SECTION 6
SCALE: 1" = 1'-0"
S-015



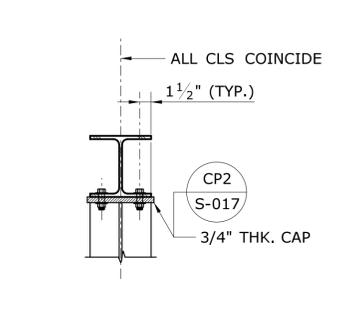
DETAIL AT ROOF BEAM 7
SCALE: 1" = 1'-0"
S-015



DETAIL AT LINTEL 8
SCALE: 1" = 1'-0"
S-015



DETAIL (TYP.) 9
SCALE: 1" = 1'-0"
S-015

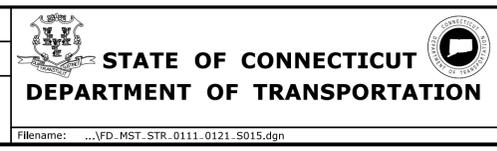


SECTION (TYP.) 10
SCALE: 1" = 1'-0"
S-015

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
DCS
CHECKED BY:
RPL
SCALE AS NOTED

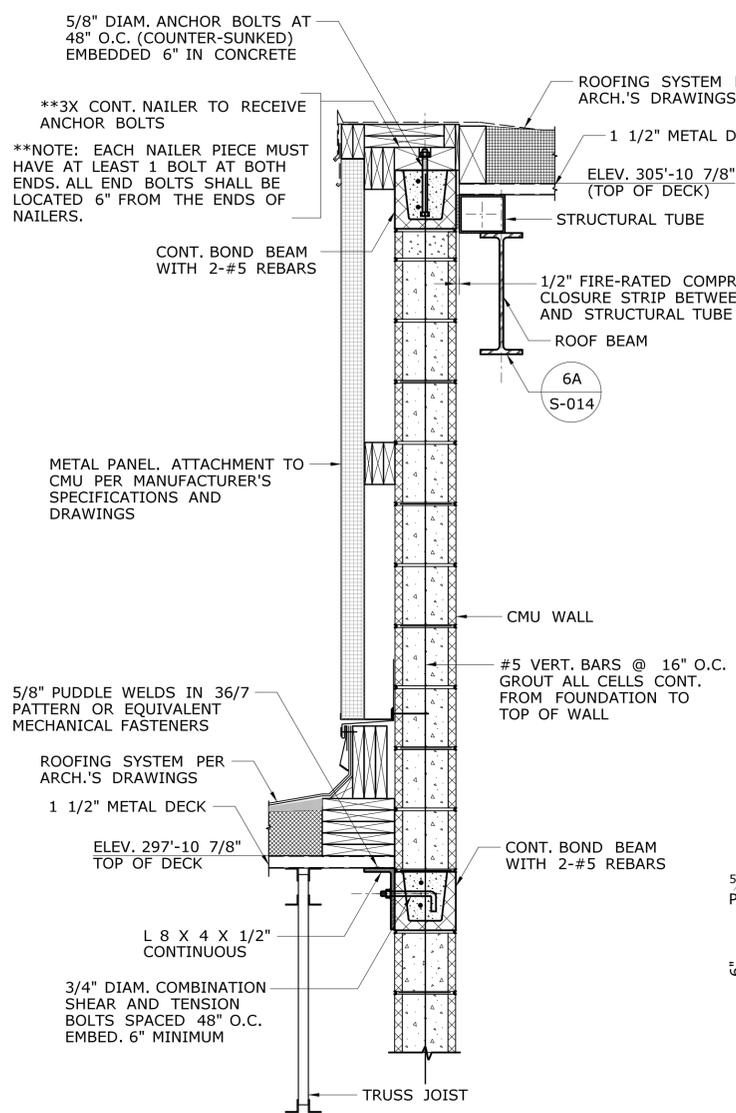


SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

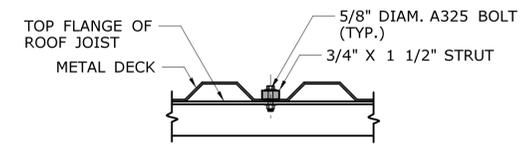
PROJECT TITLE:
**POMFRET
MAINTENANCE FACILITY**

TOWN:
POMFRET
DRAWING TITLE:
STEEL DETAILS-2

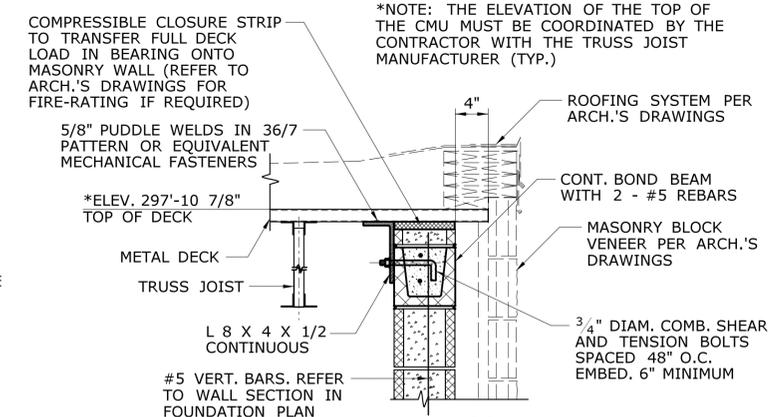
PROJECT NO.
111-121
DRAWING NO.
S-015
SHEET NO.
06.15



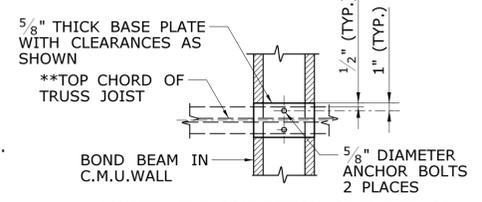
SECTION (TYP.) 1
SCALE: 1" = 1'-0"
S-016



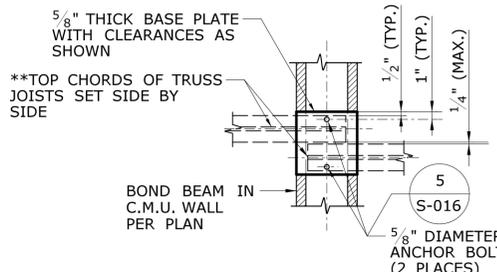
SECTION 9
NO SCALE
S-016



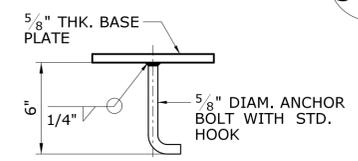
SECTION (TYP.) 2
SCALE: 1" = 1'-0"
S-016



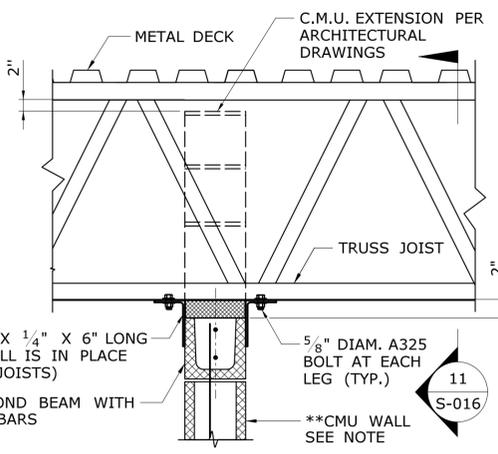
SECTION 5
SCALE: 1" = 1'-0"
S-016



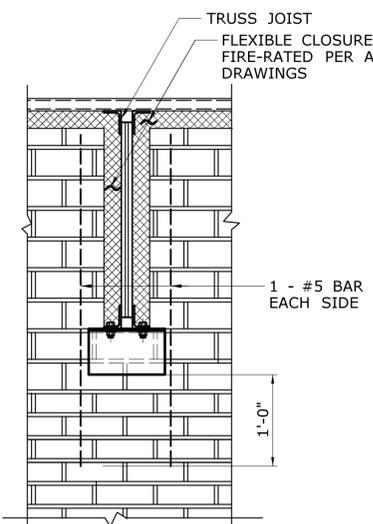
SECTION 7
SCALE: 1" = 1'-0"
S-016



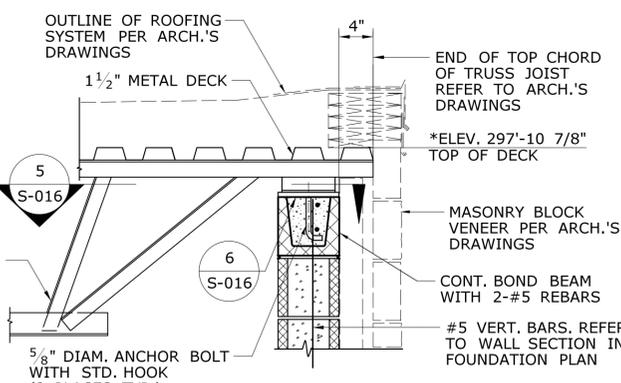
DETAIL 6
SCALE: 1" = 1'-0"
S-016



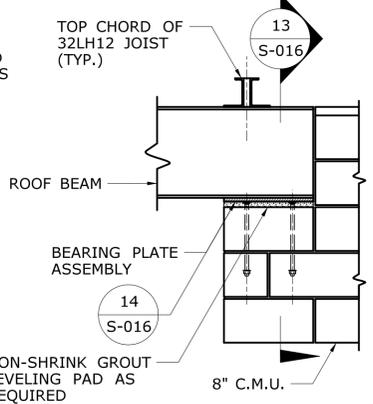
SECTION (TYP.) 10
NO SCALE
S-016



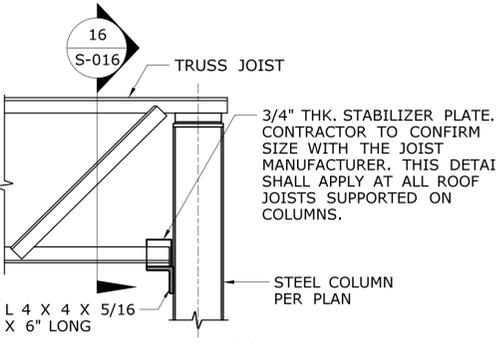
SECTION 11
NO SCALE
S-016



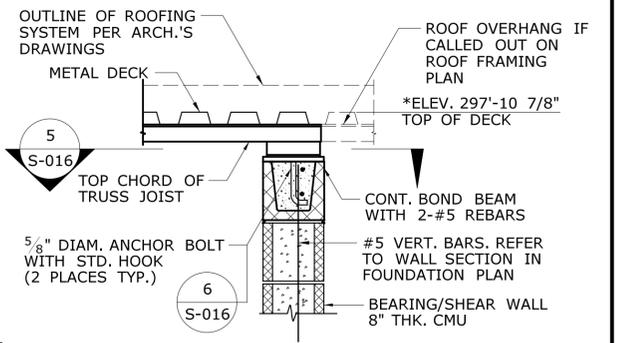
SECTION (TYP.) 3
SCALE: 1" = 1'-0"
S-016



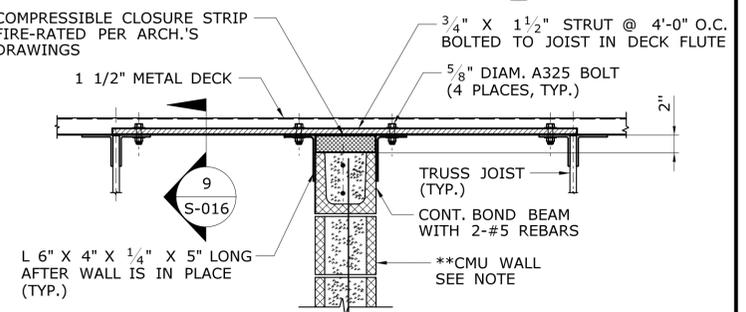
DETAIL (TYP.) 12
SCALE: 3/4" = 1'-0"
S-016



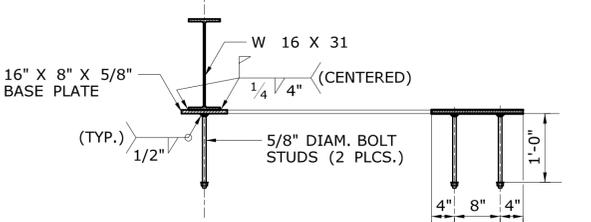
SECTION (TYP.) 15
NO SCALE
S-016



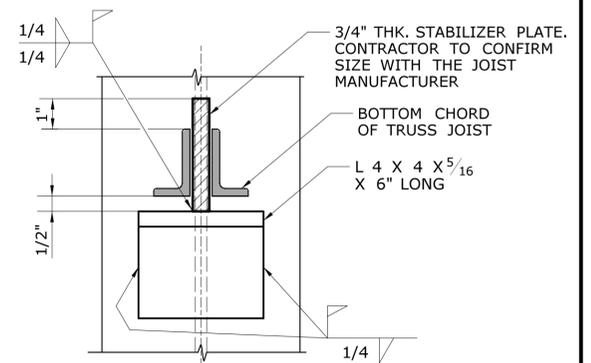
SECTION (TYP.) 4
SCALE: 1" = 1'-0"
S-016



SECTION (TYP.) 8
SCALE: 1" = 1'-0"
S-016

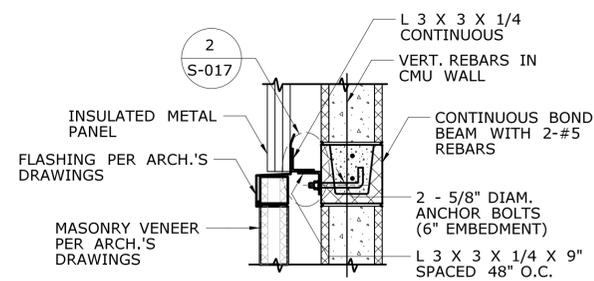


SECTION 13
SCALE: 3/4" = 1'-0"
S-016

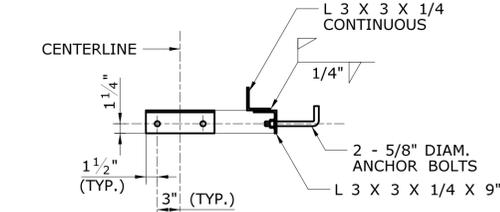


SECTION 16
NO SCALE
S-016

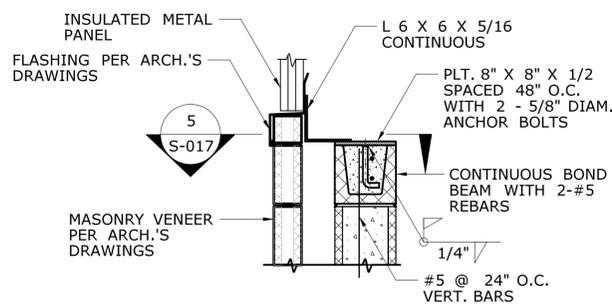
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015	DESIGNER/DRAFTER: DCS	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
					CHECKED BY: RPL		APPROVED BY: 		DRAWING TITLE: MASONRY DETAILS-1	DRAWING NO. S-016
					SCALE AS NOTED	Filename: ...FD_MST_STR_0111_0121_S016.dgn				SHEET NO. 06.16



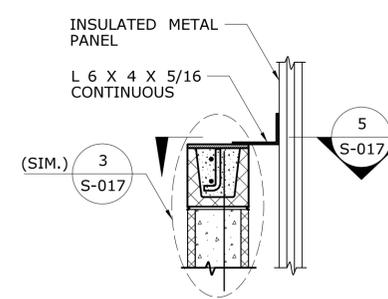
DETAIL AT LEDGER (TYP.)
SCALE: 1" = 1'-0"
1
S-017



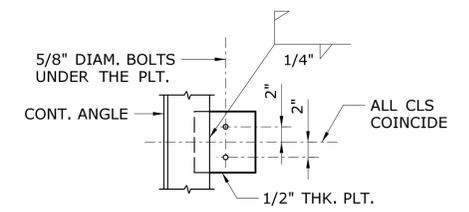
ATTACHMENT DETAIL (TYP.)
SCALE: 1" = 1'-0"
2
S-017



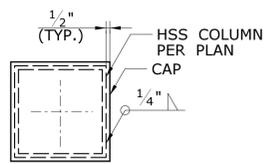
ATTACHMENT DETAIL (TYP.)
SCALE: 1" = 1'-0"
3
S-017



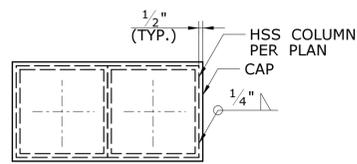
ATTACHMENT DETAIL (TYP.)
SCALE: 1" = 1'-0"
4
S-017



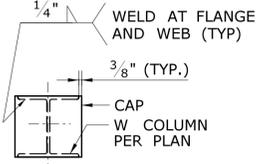
SECTION
SCALE: 1" = 1'-0"
5
S-017



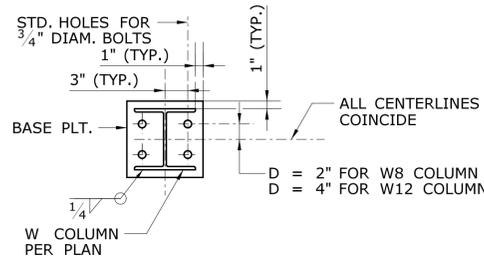
DETAIL (TYP.)
SCALE: 1" = 1'-0"
CP1
S-017



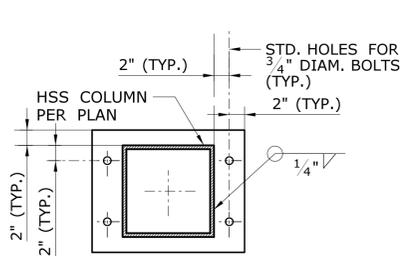
DETAIL (TYP.)
SCALE: 1" = 1'-0"
CP1B
S-017



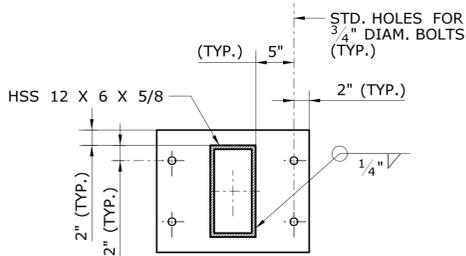
DETAIL (TYP.)
SCALE: 1" = 1'-0"
CP2
S-017



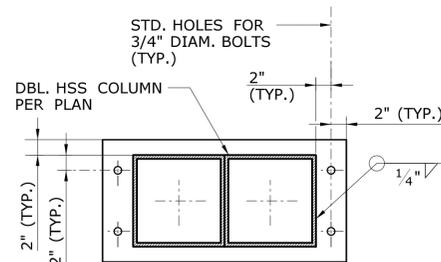
DETAIL (TYP.)
SCALE: 1" = 1'-0"
BP2
S-017



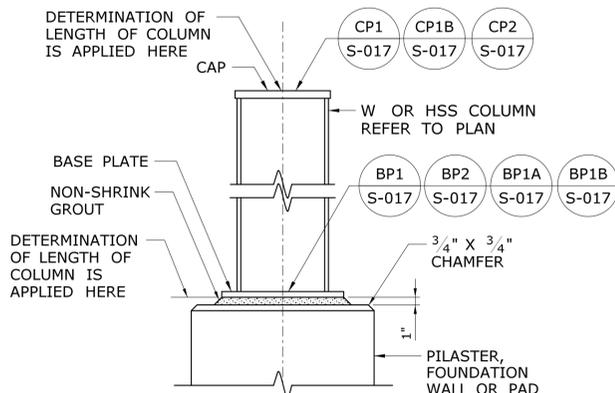
DETAIL (TYP.)
SCALE: 1" = 1'-0"
BP1
S-017



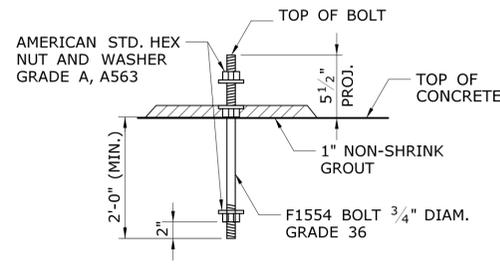
DETAIL (TYP.)
SCALE: 1" = 1'-0"
BP1A
S-017



DETAIL (TYP.)
SCALE: 1" = 1'-0"
BP1B
S-017



COLUMN LENGTH DETERMINANT



ANCHOR BOLT DETAILS (TYP.)
SCALE: 1" = 1'-0"

ABBREVIATIONS:

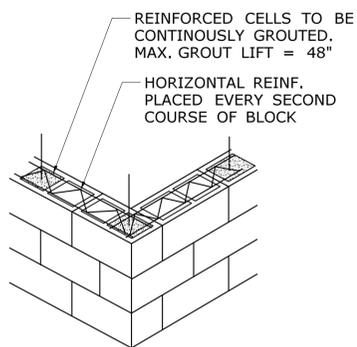
- T.O.B. - TOP OF STEEL
- T.O.P. - TOP OF PIER
- T.O.K.W. - TOP OF KNEE WALL
- F.F.E. - FINISHED FLOOR ELEVATION
- B.F.E. - BOTTOM OF FOOTING ELEVATION

COLUMN SCHEDULE						
COLUMN GRIDLINE DESIGNATION	COLUMN TYPE	COLUMN LENGTH*	BASE PLATE SIZE (IN.)	BOTTOM OF BASE PLATE ELEVATION**	CAP PLATE SIZE (IN.)	TOP OF COLUMN INCLUDING CAP PLATE
10/G, 10/H, 10/I, 10/J 10/K, 10/L, 10/M, 10/N D/3, D/4, D/5, D/6, D/7	HSS 12 X 12 X 1/4	23'-5"	PL 20 X 16 X 3/4 (U.N.O.) PL 32 X 16 X 3/4 (FOR D/4 + D/5)	281'-11 3/8"	PL 13 X 13 X 3/4 (U.N.O.) PL 25 X 13 X 3/4 (FOR D/4 + D/5)	305'-4 3/8"
D/8	HSS 12 X 6 X 5/8	23'-5"	PL 20 X 16 X 3/4	281'-11 3/8"	PL 13 X 7 X 3/4	305'-4 3/8"
10/O, 10/F	HSS 12 X 6 X 5/8	22'-1 1/8"	PL 20 X 16 X 3/4	281'-11 3/8"	PL 13 X 7 X 3/4	304'-0 1/2"
D/2	HSS 12 X 6 X 5/8	21'-5 1/4"	PL 20 X 16 X 3/4	281'-11 3/8"	PL 13 X 7 X 3/4	303'-4 5/8"
9/A, 9/B, 9/C, 9/D A/6, A/7, A/8 E/10, E/11, E/12, E/13 P/10, P/11, P/12, P/13 13/G, 13/H, 13/I, 13/J 13/K, 13/L, 13/M, 13/N	W 8 X 35	15'-4 1/4"	PL 10 1/8 X 10 X 3/4	290'-1 3/8"	PL 8 3/4 X 8 3/4 X 3/4	305'-4 3/8"
1/A, 1/B, 1/C, 1/D A/3, A/3.9	W 8 X 35	10'-7"	PL 10 1/8 X 10 X 3/4	294'-9 3/8"	PL 8 3/4 X 8 3/4 X 3/4	305'-4 3/8"
AT FUEL PIPE SUPPORT (2 PLACES)	W 8 X 31	T.B.D.	PL 10 X 10 X 3/4	T.B.D.	PL 8 3/4 X 8 3/4 X 3/4	T.B.D.

* COLUMN LENGTH INCLUDES BASE PLATE AND CAP PLATE THICKNESSES, WHERE APPLICABLE. CONTRACTOR SHALL VERIFY ALL COLUMN LENGTHS PRIOR TO FABRICATION.

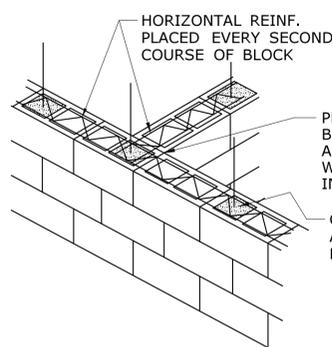
** THIS ELEVATION CORRESPONDS TO THE TOP OF THE 1-INCH THICK NON-SHRINK GROUT AND IS GIVEN AGAINST THE TOP OF SLAB.

DESIGNER/DRAFTER: DCS	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: POMFRET MAINTENANCE FACILITY	TOWN: POMFRET	PROJECT NO. 111-121
CHECKED BY: RPL		APPROVED BY: 	DRAWING TITLE: MASONRY DETAILS-2 COLUMN SCHEDULE	DRAWING NO. S-017	SHEET NO. 06.17
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 8/5/2015		



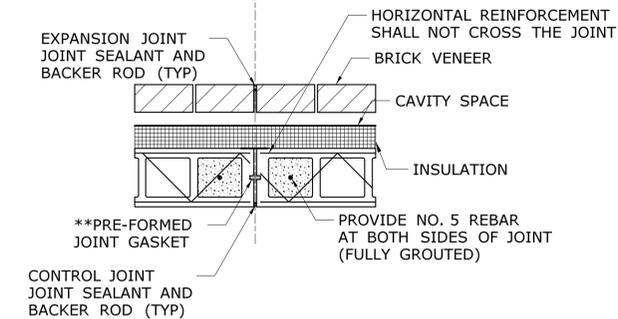
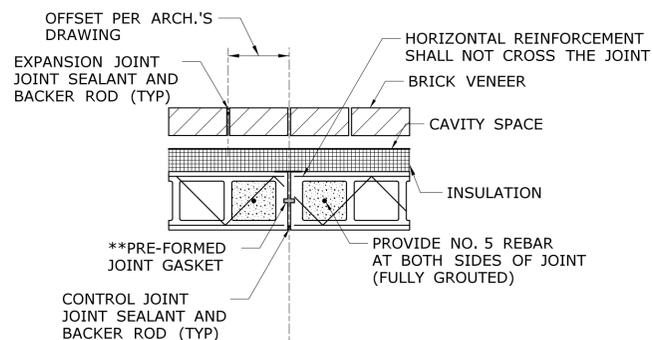
CMU WALL CORNER REINFORCEMENT (TYP.)

NTS



CMU WALL INTERSECTION REINFORCEMENT (TYP.)

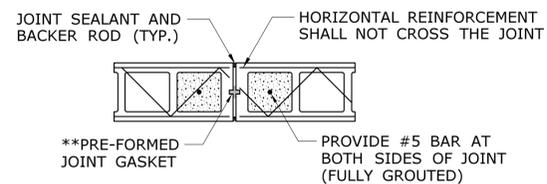
NTS



**NOTE: THE PRE-FORMED GASKET MATERIAL SHOULD BE CAPABLE TO TRANSFER OUT-OF-PLANE LOADS PER MANUFACTURER'S SPECIFICATIONS, OR USE CMU BLOCKS WITH A PROVISION FOR A GROUTED SHEAR KEY.

EXTERIOR WALL CONTROL JOINT (TYP.)

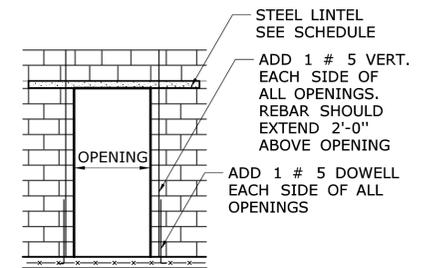
SCALE: 1' = 1'-0"



**NOTE: THE PRE-FORMED GASKET MATERIAL SHOULD BE CAPABLE TO TRANSFER OUT-OF-PLANE LOADS PER MANUFACTURER'S SPECIFICATIONS, OR USE CMU BLOCKS WITH A PROVISION FOR A GROUTED SHEAR KEY.

INTERIOR WALL CONTROL JOINT (TYP.)

SCALE: 1' = 1'-0"



INTERIOR MASONRY WALL OPENING

SCALE: 1' = 1'-0"

LOOSE LINTEL SCHEDULE		
FOR NON-LOAD BEARING MASONRY WALLS		
MASONRY OPENING	ANGLE SIZE (DBL. ANGLES BACK TO BACK)	BEARING EA. END
3'-0" OR LESS	3 1/2" x 3 1/2" x 5/16"	8"
OVER 3'-0" TO 6'-0"	5" x 3 1/2" x 5/16"	8"
OVER 6'-0" TO 8'-0"	6" x 3 1/2" x 5/16"	8"

NOTES:

- CONTRACTOR SHALL SUPPLY LOOSE ANGLE LINTELS OVER ALL MASONRY OPENINGS AND RECESSES U.N.O. LINTELS NOT SCHEDULED ON DRAWINGS SHALL CONSIST OF SINGLE ANGLE WITH 3 1/2" INCH LEG HORIZONTAL FOR EACH 4-INCH OF WALL THICKNESS.
- LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.
- ALL DOUBLE ANGLES OVER 5'-0" LONG ARE TO BE BOLTED TOGETHER WITH 5/8" DIAMETER BOLTS SPACED 3'-0" O.C.
- THE LONGER LEG OF ANGLE SHALL BE VERTICAL.
- PROVIDE A MINIMUM OF 6-INCH BEARING ON BRICK OR CONCRETE BLOCK.
- PROVIDE A MINIMUM OF 8" X WALL THICKNESS X 8" HIGH GROUTED CMU OR BRICK BEARING PAD UNDER ALL LINTELS, UNLESS NOTED OTHERWISE. GROUT JAMBS OF MASONRY OPENINGS 6'-0" OR LARGER FULL HEIGHT FOR 8" MINIMUM WIDTH.

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Plotted Date: 8/5/2015

DESIGNER/DRAFTER:
DCS

CHECKED BY:
RPL

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Signature: *[Handwritten Signature]*

File name: ...FD_MST_STR_0111_0121_S018.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
[Handwritten Signature]

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

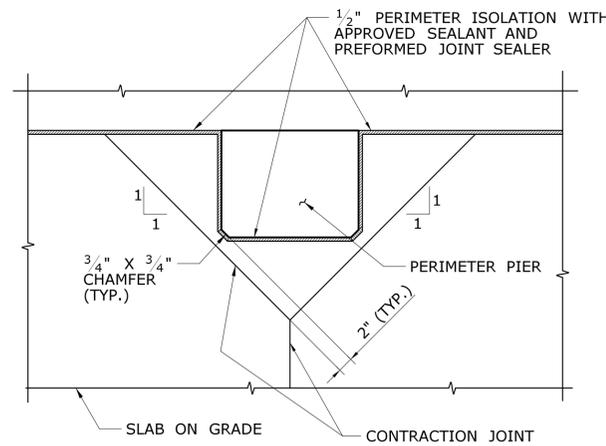
TOWN:
POMFRET

DRAWING TITLE:
MASONRY DETAILS-3

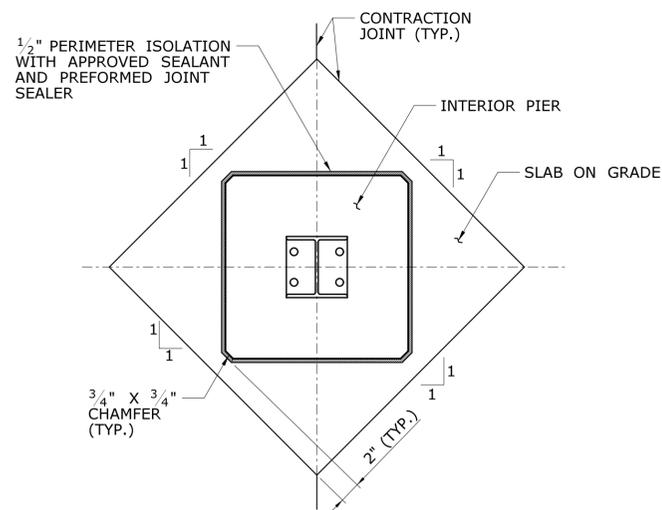
PROJECT NO.
111-121

DRAWING NO.
S-018

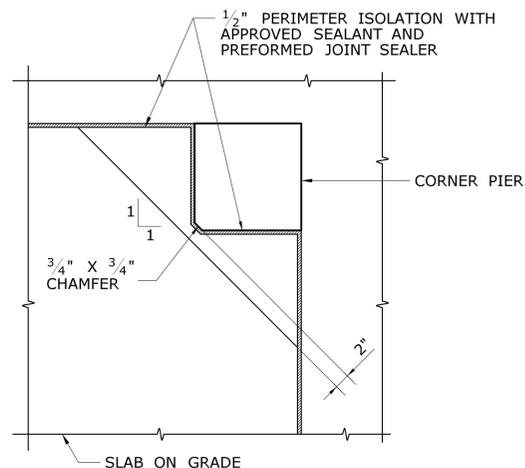
SHEET NO.
06.18



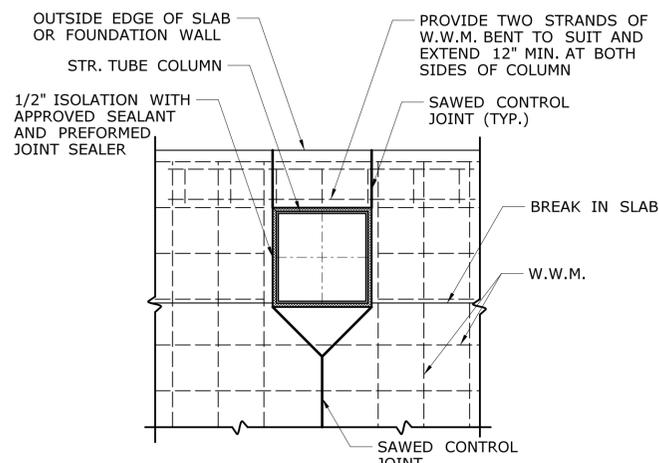
ISOLATION JOINT AT PERIMETER PIERS



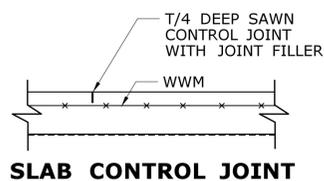
ISOLATION JOINT AT INTERIOR PIERS



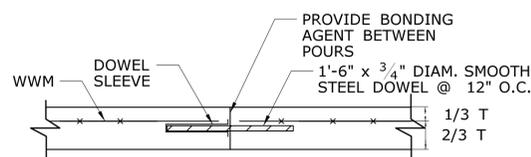
ISOLATION JOINT AT CORNER PIERS



ISOLATION JOINT AT STR. TUBE COLUMN

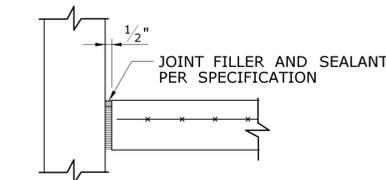


SLAB CONTROL JOINT

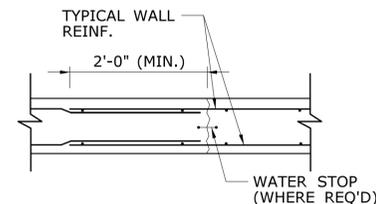


- NOTES:
 1) CONSTRUCTION JOINT SHALL BE FORMED FULL DEPTH OF SLAB.
 2) DOWELS OR DOWEL SLEEVES SHALL BE INSTALLED AND SECURED AGAINST DISPLACEMENT PRIOR TO POUR. DOWELS SHALL NOT BE INSTALLED AFTER POUR.
 3) DOWEL SLEEVES SHALL BE USED ON ONE SIDE OF JOINT WITH THE OTHER SIDE EXPOSED TO CONCRETE.

SLAB CONSTRUCTION JOINT (TYP.)



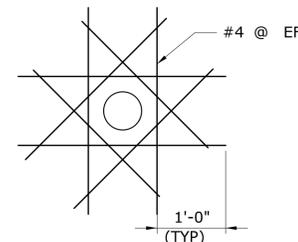
SLAB ON GRADE ISOLATION JOINT



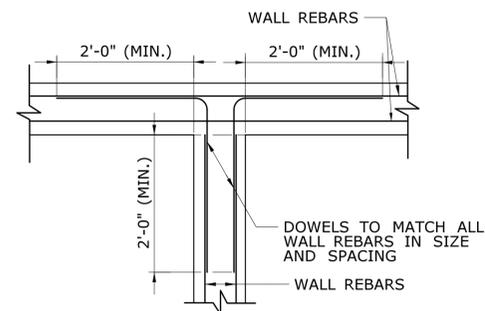
NOTES:

- 1) CONSTRUCTION JOINT SHALL BE 1'-0" (MIN.) FROM ANY CORNER
- 2) REINFORCING SHALL EXTEND 2'-0" (MIN.) BEYOND JOINT.
- 3) CONSTRUCTION JOINT LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ENGINEER.

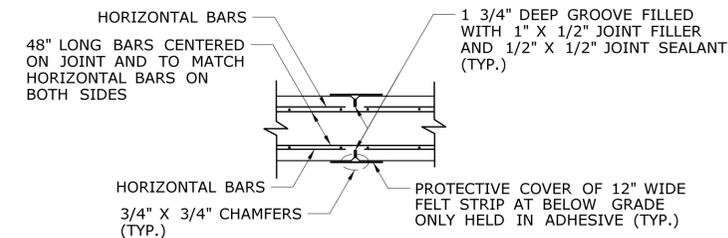
WALL CONSTRUCTION JOINT



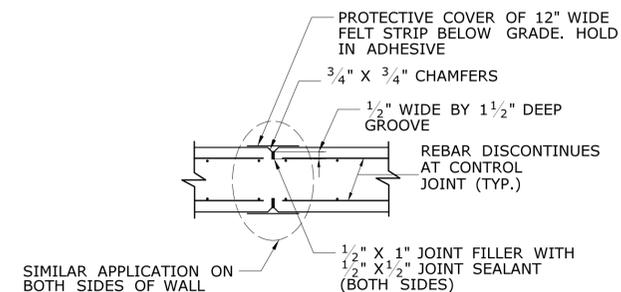
ADDITIONAL REBARS AT PENETRATIONS



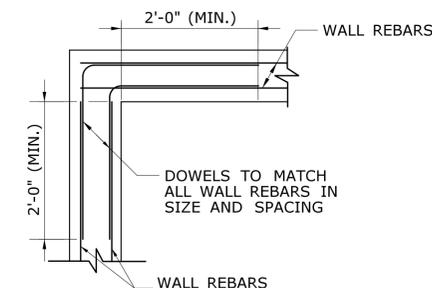
REBARS AT WALL INTERSECTIONS



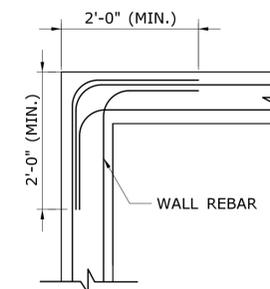
WALL CONTROL JOINT



FOUNDATION WALL CONTROL JOINT AT BUILDING EXPANSION JOINT



REBARS AT WALL CORNERS

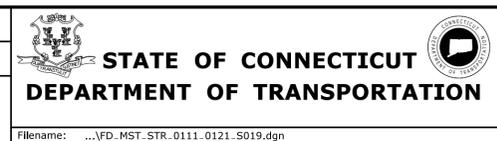


REBARS AT WALL CORNERS (ALTERNATE)

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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **DCS**
 CHECKED BY: **RPL**
 SCALE AS NOTED



SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
 APPROVED BY: *[Signature]*

PROJECT TITLE: **POMFRET MAINTENANCE FACILITY**

TOWN: **POMFRET**
 DRAWING TITLE: **MISC. TYPICAL CONCRETE DETAILS**

PROJECT NO. **111-121**
 DRAWING NO. **S-019**
 SHEET NO. **06.19**