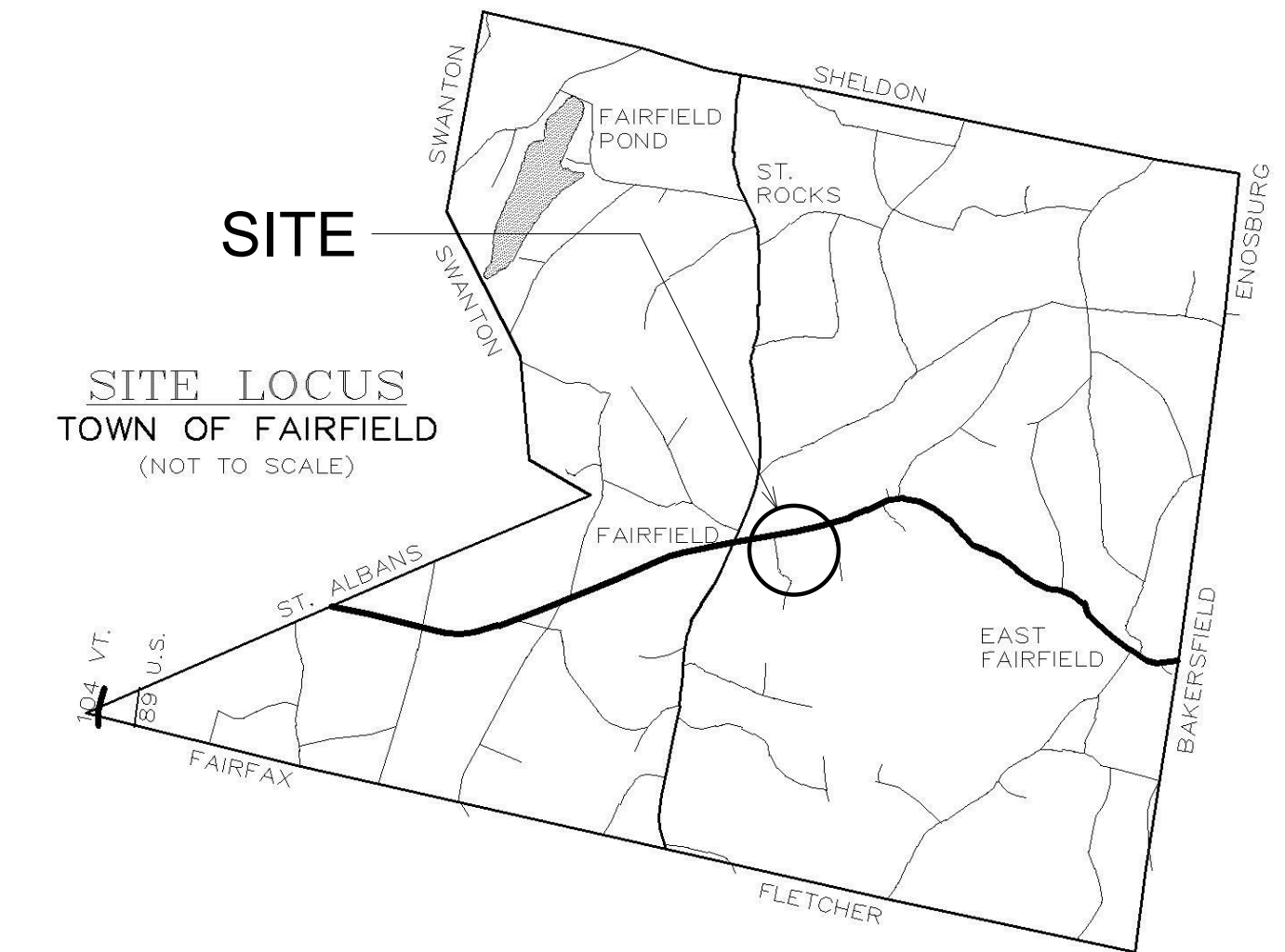


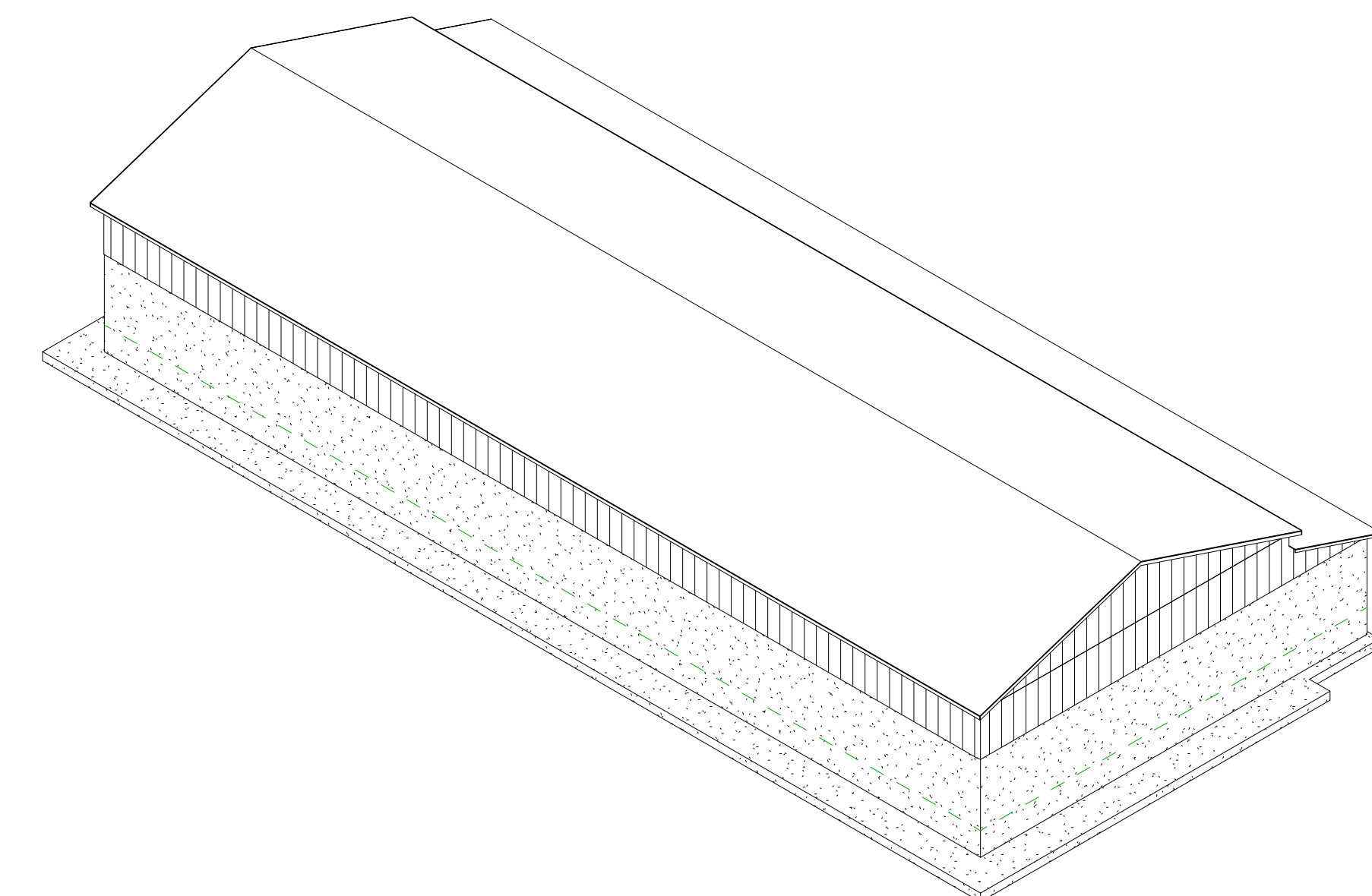
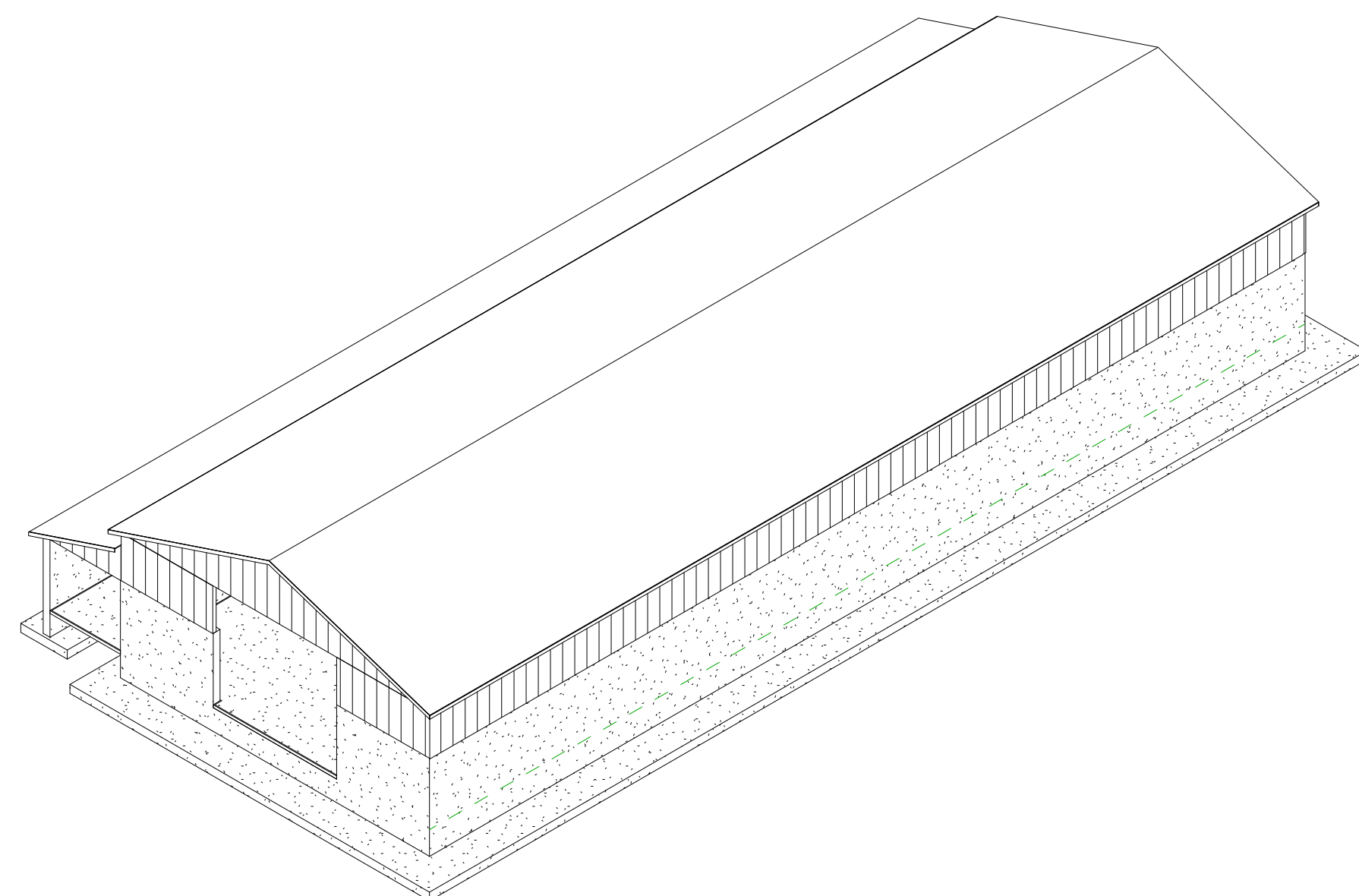
TOWN OF FAIRFIELD



COUNTY OF FRANKLIN NEW SAND STORAGE FACILITY GILBERT HILL ROAD

PROJECT DESCRIPTION

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
SITE PREPARATION AND THE CONSTRUCTION OF A 75' x 170' , 12,750 SQUARE FEET
COVERED SAND STORAGE SHED, INCLUDING SALT STORAGE AND STORAGE AREAS FOR EQUIPMENT
AND AGGREGATE



QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : CROSS CONSULTING ENGINEERS
SURVEYED DATE : 2016

DATUM

VERTICAL : NAVD 1998
HORIZONTAL : NAVD 1983

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.
ALSO REFER TO SUPPLEMENTARY SPECIFICATIONS SPECIFIC TO THIS PROJECT

APPROVED _____

DATE _____

PROJECT MANAGER : BRIAN DOUGLAS

PROJECT NAME: TOWN OF FAIRFIELD
SALT SHED
PROJECT NUMBER : FAIRFIELD TAP TA 16 (9)
SHEET NUMBER 1 OF 9 SHEETS



CROSS CONSULTING ENGINEERS, P.C.

Peter H. Cross, P.E., L.S.
President

103 Fairfax Road, St. Albans, Vermont 05478-6271 • Tel.: 802.524.2113 • Fax: 802.524.9681
E-mail: pcross@crossconsultingengineers.com

GENERAL NOTES

RECORD OF OWNERSHIP

TOWN OF FAIRFIELD
25 NORTH ROAD
P.O. BOX 5
FAIRFIELD, VT 05448

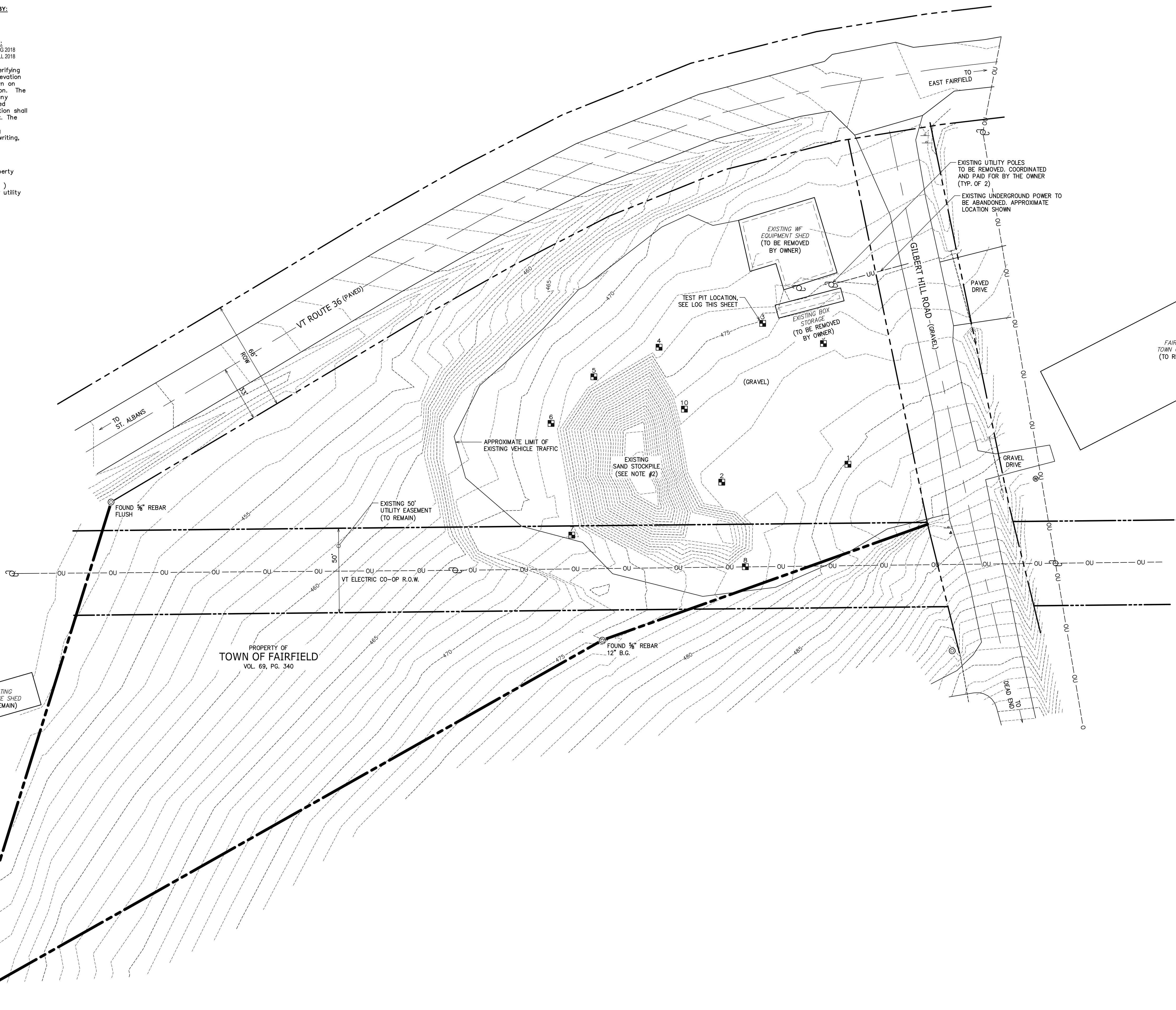
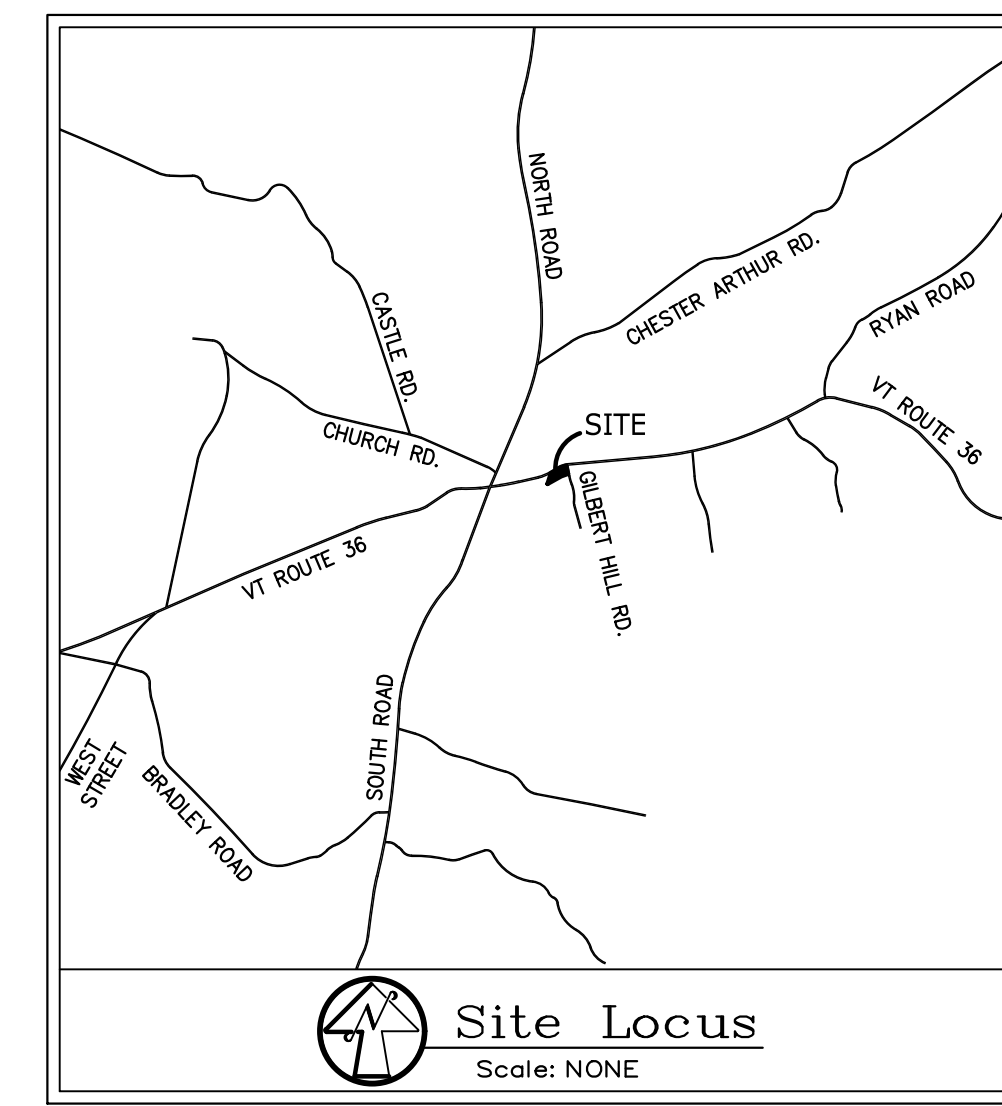
BOUNDARY AND TOPOGRAPHY PROVIDED BY:

CROSS CONSULTING ENGINEERS, P.C.
103 FAIRFAX ROAD
ST. ALBANS, VT 05478

ANTICIPATED CONSTRUCTION SCHEDULE:

Start: SPRING 2018
Complete: FALL 2018

- The contractor shall be responsible for verifying and determining the location, size and elevation of all existing utilities shown or not shown on this plan prior to the start of construction. The engineer shall be notified, in writing, of any utilities found interfering with the proposed construction and appropriate remedial action shall be taken before proceeding with the work. The contractor shall verify all dimensions and elevations in the field before commencing construction and notify the engineer, in writing, of any discrepancy found.
- Stockpile shown as of May 2016. Current stockpile varies from shown.
- Property boundaries and ROW limits are approximate and do not represent a property boundary survey.
- Notify dig-safe (1-888-DIG-SAFE or 811) before commencing construction to verify utility locations. Website at www.digsafe.com



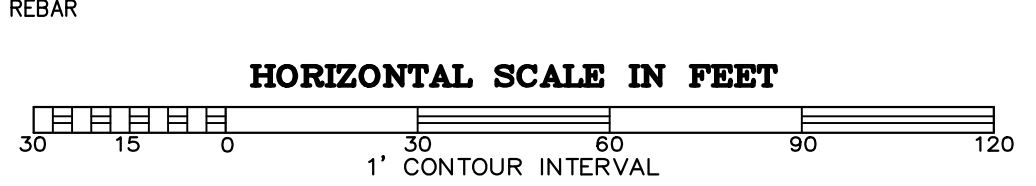
TEST PIT LOG

TP#1 -	0-6' 6-9'	COARSE SAND WITH STONES - DRY SANDY CLAY - MOIST (WOOD TRASH, TIRES, STUMPS, STEEL BARRELS @ 0-5')
TP#2 -	0-8' 8-10'	MED. SAND - DRY SANDY CLAY WITH SHALE (PAVEMENT, STEEL TRASH @ 2'-3')
TP#3 -	0-3.5'	SAND, GRAVEL, SANDY GRAVEL "SOFT" HARDPAN AT 3' NO TRASH, ORGANICS, DRY
TP#4 -	0-5' 5-8' 8-9'	GRAVEL, SAND, OCCASIONAL LARGE STONE OLD FILL, ORGANICS SANDY CLAY (SEEP @ 2.5') (3-5" HARD LAYER)
TP#5 -	0-9'	MED. SAND WITH SMALL STONES (0-6" DRY) (6-9" WET)
TP#6 -	0-7.5'	CLAYEY SAND WITH STONES
TP#7 -	0-8'	MED. SANDY CLAY (DRY) OCCASIONAL LARGE STONES - 18"
TP#8 -	0-2' 2-6'	SANDY GRAVEL SANDY CLAY
TP#9 -	0-4.5' 4.5-8'	MED. SAND CLAYEY SAND WITH STONES (DRY)
TP#10 -	0-7'	MED SAND (DRY)

TEST PIT NOTE:
SOIL DESCRIPTIONS ARE PRESENTED AS A GUIDE LINE AND MAY NOT DIRECTLY CORRESPOND WITH U.C.S CLASSIFICATIONS

LEGEND

PROPERTY CORNER FOUND	⊙
UTILITY POLE	⊕
ELEVATION BENCHMARK	⊕
SOIL TEST PIT	⊕
GATE VALVE	⊕
PROPERTY LINE	— — — — —
RIGHT-OF-WAY/EASEMENT	— — — — —
BOUNDARY SETBACK	— — — — —
ROAD CENTERLINE	— — — — —
CULVERT - STORMDRAIN	— — — — —
SILT FENCE	SF
UNDERGROUND UTILITY	— — — — —
OVERHEAD UTILITY	— — — — —
STREAM/DRAINAGE SWALE	— — — — —
EXISTING CONTOUR	— — — — —
PROPOSED CONTOUR	— — — — —

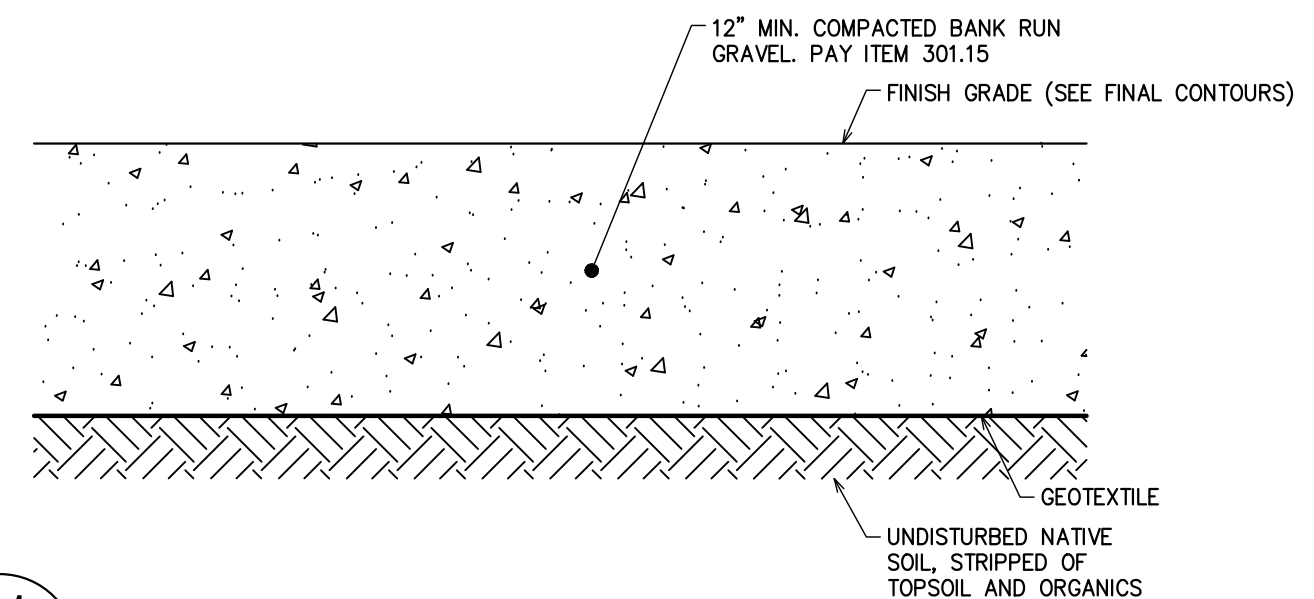
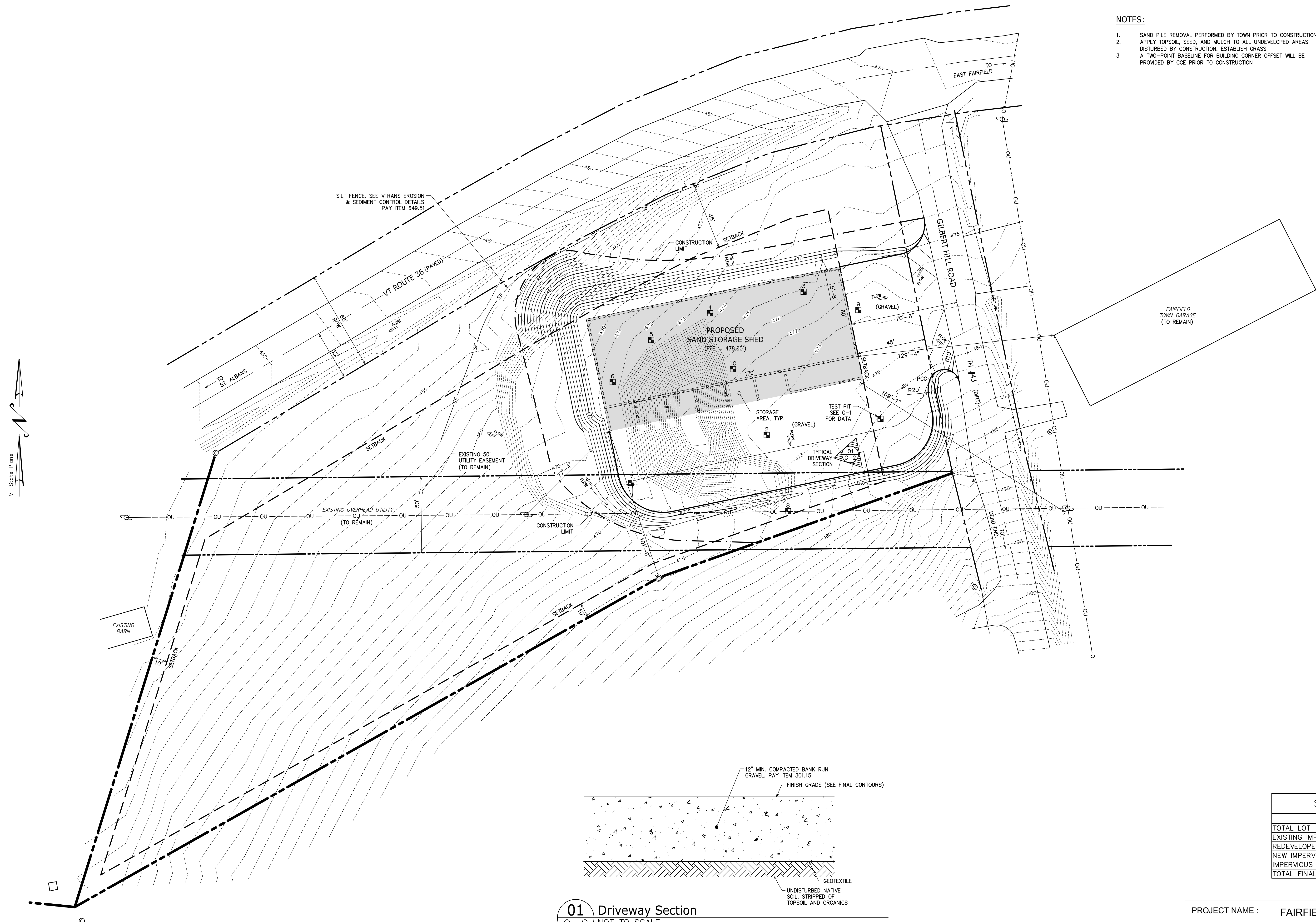


PROJECT NAME : FAIRFIELD TOWN SALT SHED
PROJECT NUMBER : 16034
FILE NAME : C-1 Existing Conditions
PROJECT LEADER : BD
DESIGNED BY : BD
EXISTING CONDITIONS SITE PLAN
PLOT DATE : Jan, 12, 2018
DRAWN BY : RHW
CHECKED BY : PHC
SHEET 2 OF 9

Q:\2016 Drawings\16034 Fairfield Salt Shed\Current\C-1 Existing Conditions.dwg Plotted: 1/12/2018 1:30:56 PM

PROJECT DESCRIPTION:
 CONSTRUCTION OF A ±6,000 CUBIC YARD CAPACITY ROAD-SAND STORAGE SHED AT THE SITE OF THE EXISTING EXTERIOR SAND STOCKPILE. THE COVERED CONCRETE AND WOOD STRUCTURE WILL HAVE AN ATTACHED ROAD SALT STORAGE AREA. A DRIVEWAY FOR ACCESS ON TWO SIDES WILL BE ESTABLISHED.

- NOTES:**
- SAND PILE REMOVAL PERFORMED BY TOWN PRIOR TO CONSTRUCTION
 - APPLY TOPSOIL, SEED, AND MULCH TO ALL UNDEVELOPED AREAS DISTURBED BY CONSTRUCTION. ESTABLISH GRASS.
 - A TWO-POINT BASELINE FOR BUILDING CORNER OFFSET WILL BE PROVIDED BY CCE PRIOR TO CONSTRUCTION

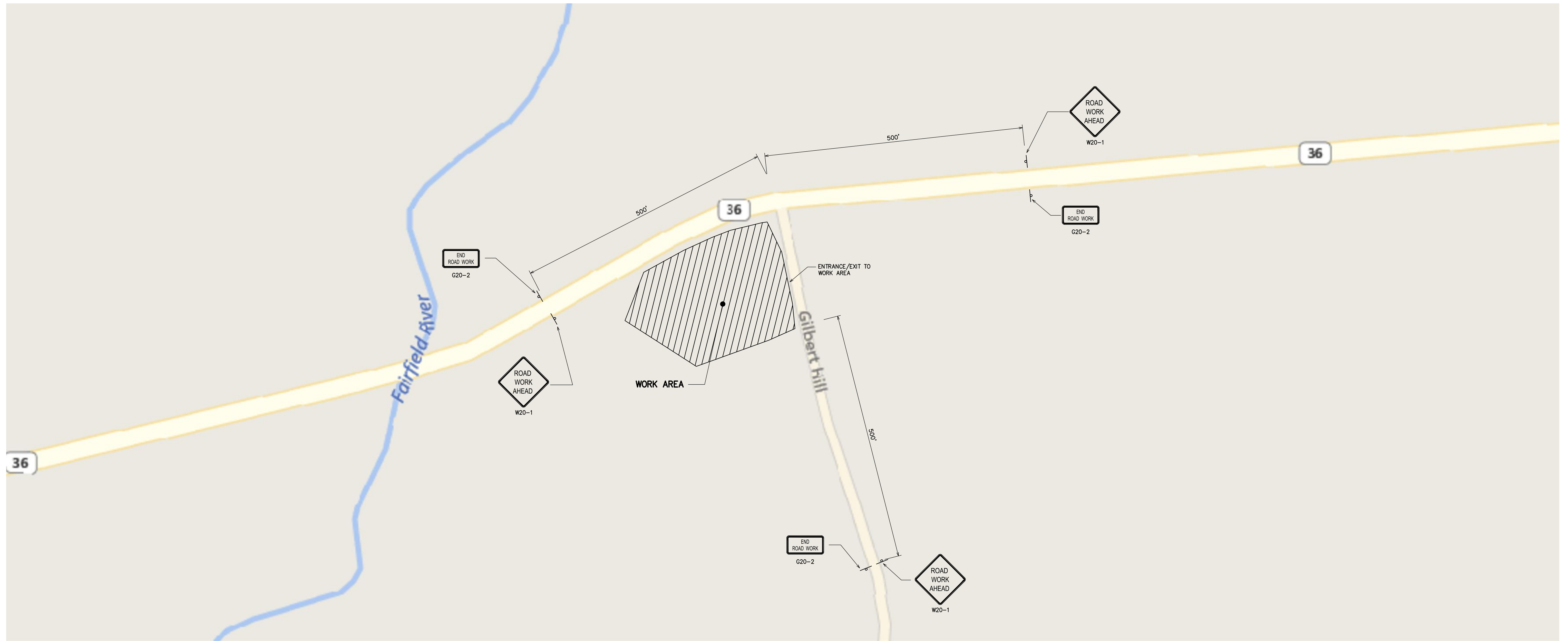


STORMWATER CALCULATIONS	
	AREA (acres)
TOTAL LOT	2.890
EXISTING IMPERVIOUS	1.047
REDEVELOPED IMPERVIOUS	0.647
NEW IMPERVIOUS	0.004
IMPERVIOUS TO BE REMOVED	0.400
TOTAL FINAL IMPERVIOUS	0.651



01 Driveway Section
C-2 NOT TO SCALE

PROJECT NAME : FAIRFIELD TOWN SALT SHED
 PROJECT NUMBER : 16034
 FILE NAME : C-2 Sand Shed Site Plan
 PROJECT LEADER : BD
 DESIGNED BY : BD
 SAND SHED SITE PLAN
 PLOT DATE : Jan 12, 2018
 DRAWN BY : RHW
 CHECKED BY : PHC
 SHEET 3 OF 9



APPROACH SIGNING

SCALE: 1" = 100'

TRAFFIC CONTROL GENERAL NOTES:

1. ALL SIGNS SHALL BE INSTALLED SO THAT THEY ARE NOT BLOCKED TO THE TRAVELING TRAFFIC AND THAT IT DOES NOT INTERFERE WITH CORNER SIGHT DISTANCE.
2. REFER TO T-SERIES VERMONT STATE STANDARDS AND THE LATEST VERSION OF THE MUTCD FOR DETAILED INFORMATION REGARDING CHANNELIZATION DEVICES, TAPER LENGTHS, BARRICADES, DETOURS, LONGITUDINAL DROP-OFFS AND MISCELLANEOUS TRAFFIC CONTROL DETAILS, IF APPLICABLE. THE MUTCD, IN THE EVENT OF A CONFLICT, TAKES PRECEDENCE OVER THE STATE STANDARDS.
3. EXISTING SIGNS SHALL BE COMPLETELY COVERED OR REMOVED WHEN THEY CONFLICT WITH CONSTRUCTION TRAFFIC OPERATIONS.
4. MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.
5. MAINTAIN PEDESTRIAN ACCESS TO COMMERCIAL AND RESIDENTIAL PROPERTIES DURING BUSINESS HOURS. PEDESTRIAN ACCESS AND STREET CROSSINGS, BOTH TEMPORARY AND PERMANENT, SHALL MEET ALL APPLICABLE AMERICANS WITH DISABILITIES ACT (ADA) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, REQUIREMENTS. POSITIVE GUIDANCE SHALL BE PROVIDED TO SEPARATE PEDESTRIAN ACCESS FROM THE WORK AREA AND VERTICAL GRADE CHANGES. ACCESS TO PROPERTIES MAY BE RESTRICTED FOR SHORT DURATIONS OF NOT MORE THAN TWO HOURS WITH PERMISSION AND PRIOR NOTIFICATION OF THE BUILDING OWNER DURING BUSINESS HOURS. COORDINATE MAJOR WORK ADJACENT TO COMMERCIAL AND RESIDENTIAL ACCESS AREAS WITH THE OWNER AND TOWN AT LEAST ONE WEEK PRIOR TO STARTING THE WORK IN THE AREA. DO NOT STORE MATERIALS ON SIDEWALKS; DO NOT PLACE EQUIPMENT OR OTHER HAZARDS IN CONFLICT WITH PEDESTRIANS.
6. SPECIAL CARE SHALL BE TAKEN TO PROVIDE ACCESS THROUGH THE WORK ZONES FOR EMERGENCY VEHICLES. COORDINATE WITH BOTH POLICE AND FIRE DEPARTMENTS TO DETERMINE THEIR MINIMUM ACCESS REQUIREMENTS BEFORE PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION. ENSURE THAT ACCESS IS AVAILABLE TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES.

PROJECT NAME : FAIRFIELD TOWN SALT SHED
 PROJECT NUMBER : 16034

FILE NAME : Work Zone Traffic Control Plan
 PROJECT LEADER : BD
 DESIGNED BY : BD
 WORK ZONE TRAFFIC CONTROL PLAN

PLOT DATE : Jan 12, 2018
 DRAWN BY : DSW
 CHECKED BY : PHC
 SHEET 3 OF 9

STRUCTURAL DESIGN PARAMETERS

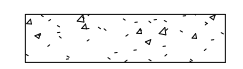
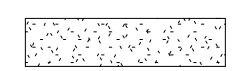
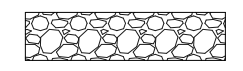
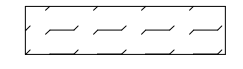
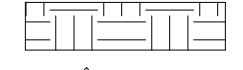
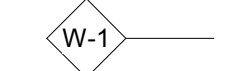
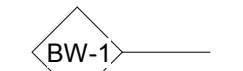
CODE:	IBC 2015, AMENDED BY THE VT. FIRE BUILDING SAFETY CODE
TOWN:	FAIRFIELD, VT
RISK CATEGORY AND IMPORTANCE FACTORS	
RISK CATEGORY:	II
IMPORTANCE FACTORS	
SNOW, Is	1.0
ICE, I	1.0
WIND, Iw	1.0
SEISMIC, Ie	1.0
ROOF LOAD:	
GROUND SNOW LOAD(Pg):	50 PSF
FLAT ROOF SNOW LOAD(Pf):	50 PSF
EXPOSURE FACTOR(Ce):	1.0
THERMAL FACTOR (Ct):	1.1
SEE ROOF FRAMING PLAN SHEET FOR TRUSS DESIGN LOADS	
WIND LOAD:	
ULTIMATE DESIGN WIND SPEED (Vult):	115 MPH
NOMINAL DESIGN WIND SPEED (Vasd):	90 MPH
EXPOSURE CATEGORY:	C
SEISMIC LOAD:	
MAPPED SPECTRAL RESPONSE COEFFICIENTS:	Ss = 0.343, S1=0.106
SITE CLASS:	D
SEISMIC DESIGN CATEGORY:	C
GEOTECHNICAL:	
DESIGN SOIL BEARING CAPACITY:	3,000 PSF

QUANTITIES

TOTALS		DESCRIPTIONS			
GRAND TOTAL	FINAL	UNIT	ITEMS	PAY ITEM	ROUND
1,140		CY	COMMON EXCAVATION	203.15	
3,302		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	
1,707		CY	SUBBASE OF GRAVEL (DRIVEWAY)	301.15	
653		CY	CONCRETE, CLASS A (INT. SLABS AND FOUNDATION WALLS)	541.22	
261		CY	CONCRETE, CLASS C (FOOTINGS)	541.30	
1		LS	TRAFFIC CONTROL	641.10	
2,102		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	
94		SY	GEOTEXTILE FOR SILT FENCE	649.51	
100		LB	SEED	651.15	
0.6		TON	HAY MULCH	651.25	
180		CY	TOPSOIL	651.35	
1		LS	SPECIAL PROVISION (BUILDING SUPERSTRUCTURE)	900.53	

STRUCTURAL DRAWING LEGEND

NOT ALL MAY APPLY
DATUM OF 0'-0" MAY ALSO BE USED

---	FOOTING LIMIT
TOF	TOP OF FOOTING
BOF	BOTTOM OF FOOTING
	CAST IN PLACE CONCRETE
	SAND
	3/4" CLEAN CRUSHED STONE
	MISCELLANEOUS BACKFILL, NO STONES <3"
	EARTH -GENERAL
	FOUNDATION WALL TAG
WJ	FOUNDATION WALL CRACK CONTROL JOINT
---	SLAB JOINT
TOC	TOP OF CONCRETE
	BEARING WALL TAG
TOW	TOP OF WALL
TOS	TOP OF STEEL
RT-1	ROOF TRUSS TAG
BF-1	BRACED FRAME TAG
RD-1	ROOF DECK TAG
RD	ROOF DRAIN
EOD	EDGE OF DECK
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
CL.	CLEAR
⊕	CENTERLINE

INDEX OF SHEETS

1	COVER SHEET
2	EXISTING CONDITIONS SITE PLAN
3	SAND SHED SITE PLAN
4	TRAFFIC CONTROL PLAN
5	PROJECT INFORMATION
6	FOUNDATION PLAN & DETAILS
7	ROOF FRAMING PLAN & DETAILS
8-9	STRUCTURAL DETAILS

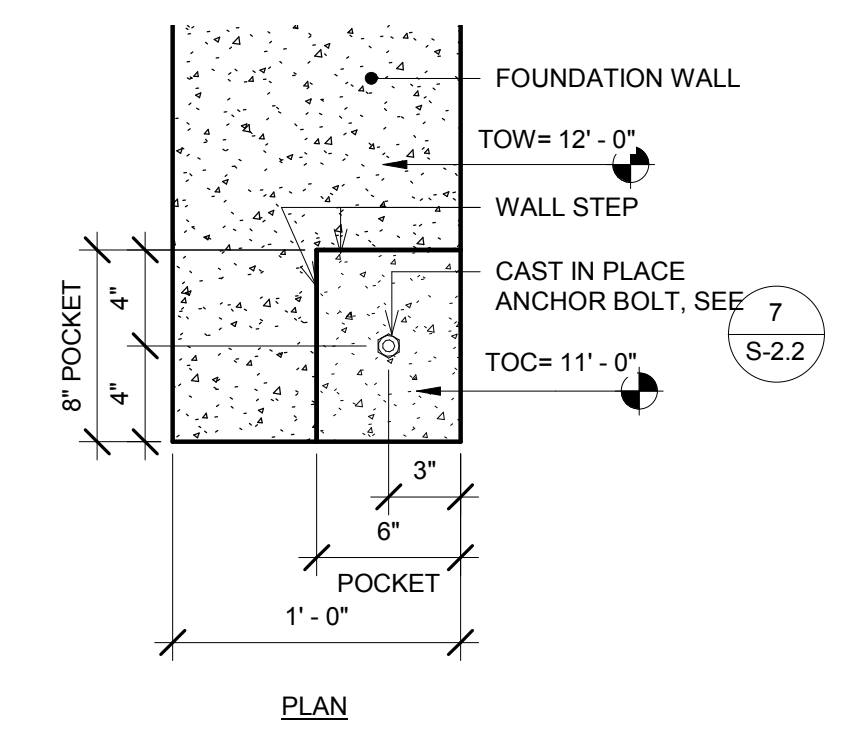
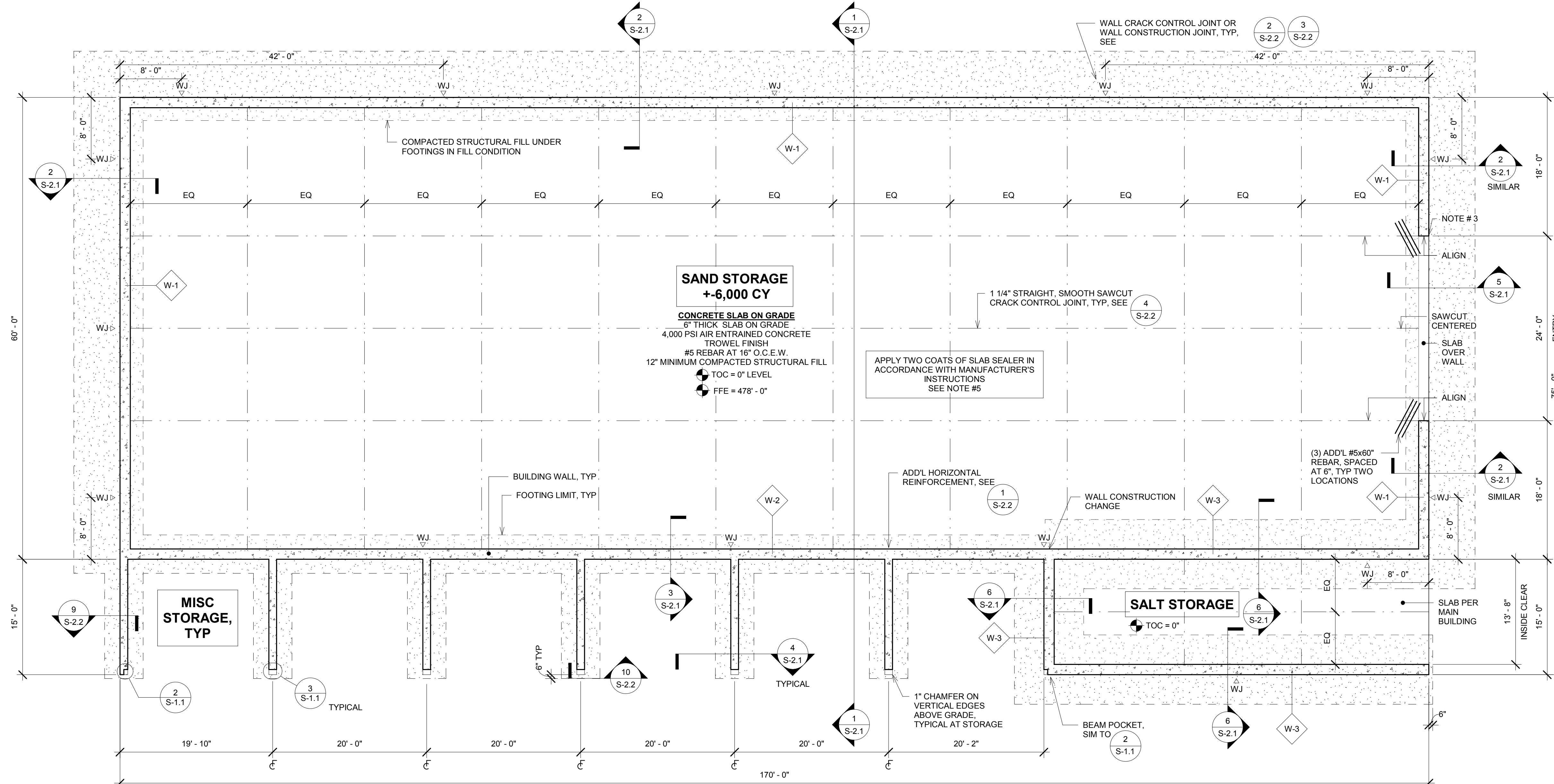
PROJECT NAME : FAIRFIELD TOWN SALT SHED
PROJECT NUMBER : FAIRFIELD TAP TA 16 (9)

FILE NAME : FAIRFIELD SAND SHED
PROJECT LEADER : BRIAN DOUGLAS
DESIGNED BY : BRIAN DOUGLAS
PROJECT INFORMATION

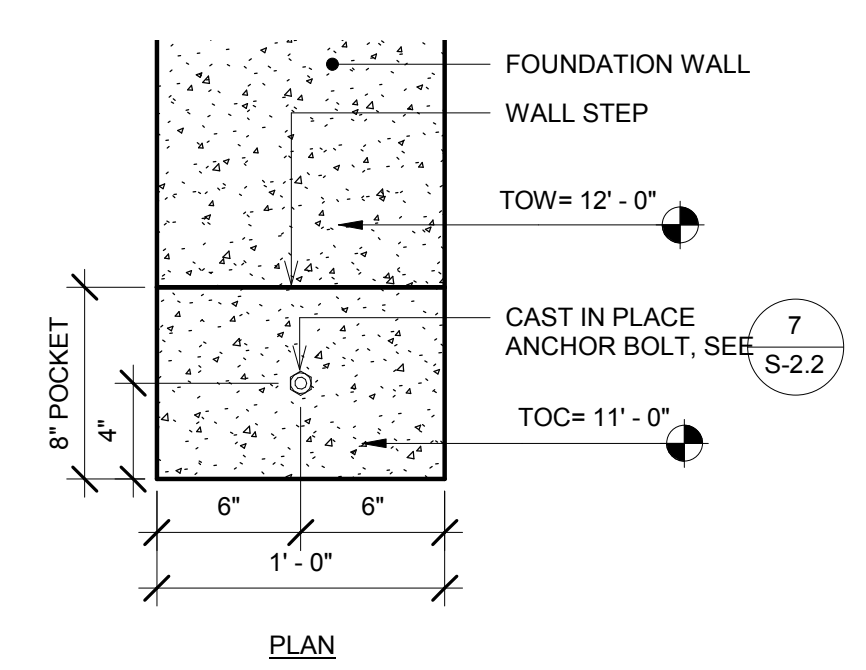
PLOT DATE : JAN 12, 2018
DRAWN BY : BD
CHECKED BY : PHC
SHEET 5 OF 9

FOUNDATION NOTES:

- 1) EXCAVATE TO THE SPECIFIED ELEVATIONS WITH A SMOOTH-EDGED BUCKET & MINIMIZE DISTURBANCE TO EXISTING SOIL TO REMAIN
- 2) FOUNDATION LAYOUT IS BY THE CONTRACTOR
- 3) CONCRETE FOOTINGS = 3,000 PSI AIR ENTRAINED. WALLS AND SLABS: 4,000 PSI, AIR ENTRAINED. SEE SPECIAL PROVISIONS. SPECIAL PROVISIONS FOR FORMWORK AND REINFORCEMENT PAID IN 900.52 CAST IN PLACE CONCRETE
- 4) 1" CHAMFERS ON ABOVE-GRADE VERTICAL EDGES AT ALL 4 CORNERS OF ENTRY CONCRETE
- 5) APPLY SLAB SEALER TO BOTH SLABS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. - IN PAY ITEM 541.22
SELECT FROM THE FOLLOWING LIST OF PRODUCTS OR SUBMIT EQUAL FOR APPROVAL:
CERTI-VEX GUARD CLEAR
CERTI-VEX PENSEAL 244
MASTERPROTECT H440 HZ BY MASTER BUILDER
- 6) REINFORCING STEEL IS INCIDENTAL TO THE RESPECTIVE PAY ITEMS FOR CONCRETE: 541.22 541.30. REBAR GRADE: 60 KSI, UNCOATED. FOLLOW ACI 318. PROVIDE REBAR SHOP DRAWINGS FOR REVIEW.

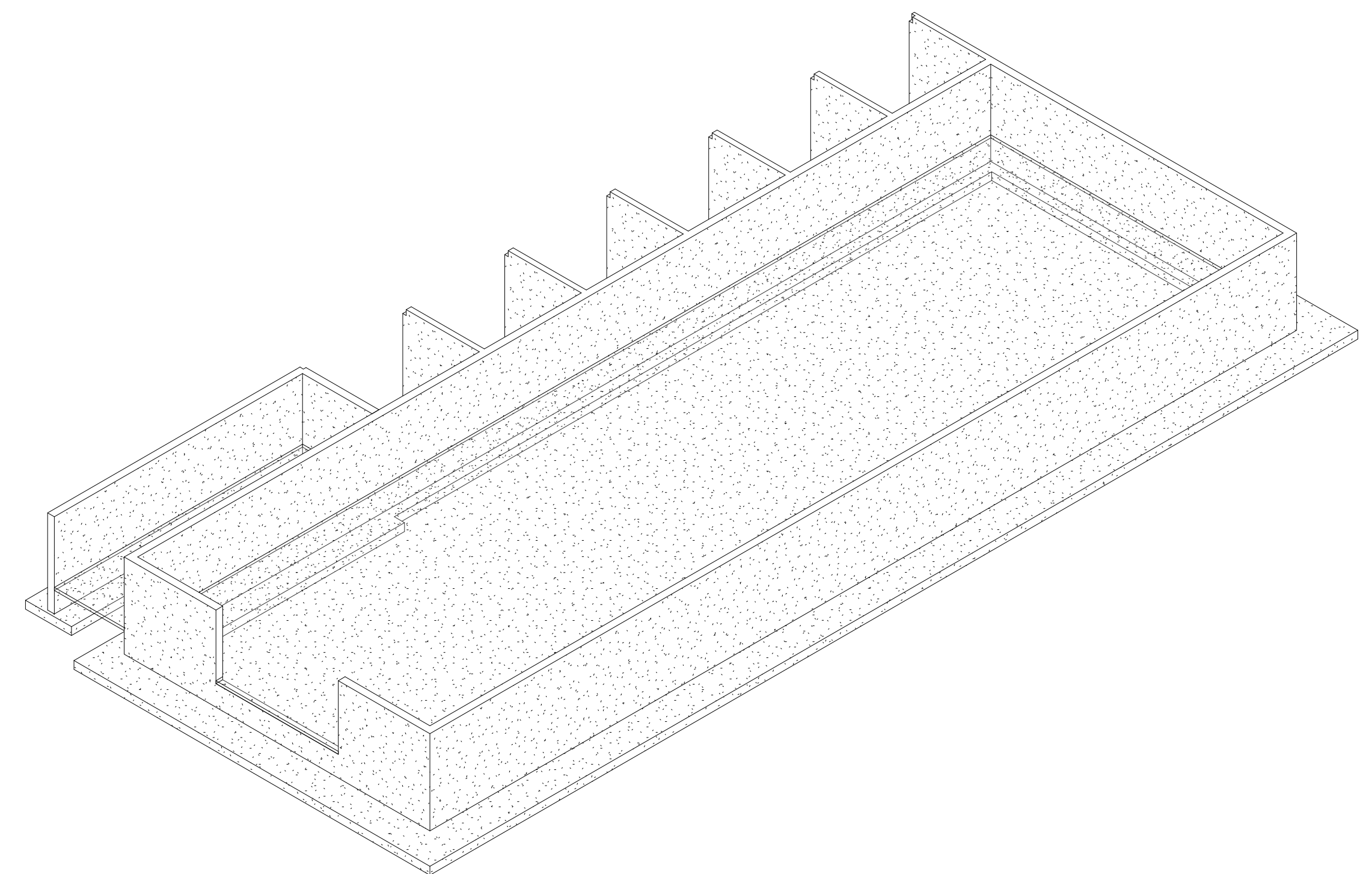


2 Beam Pocket @ End
S-1.1 Scale: 1 1/2" = 1'-0"

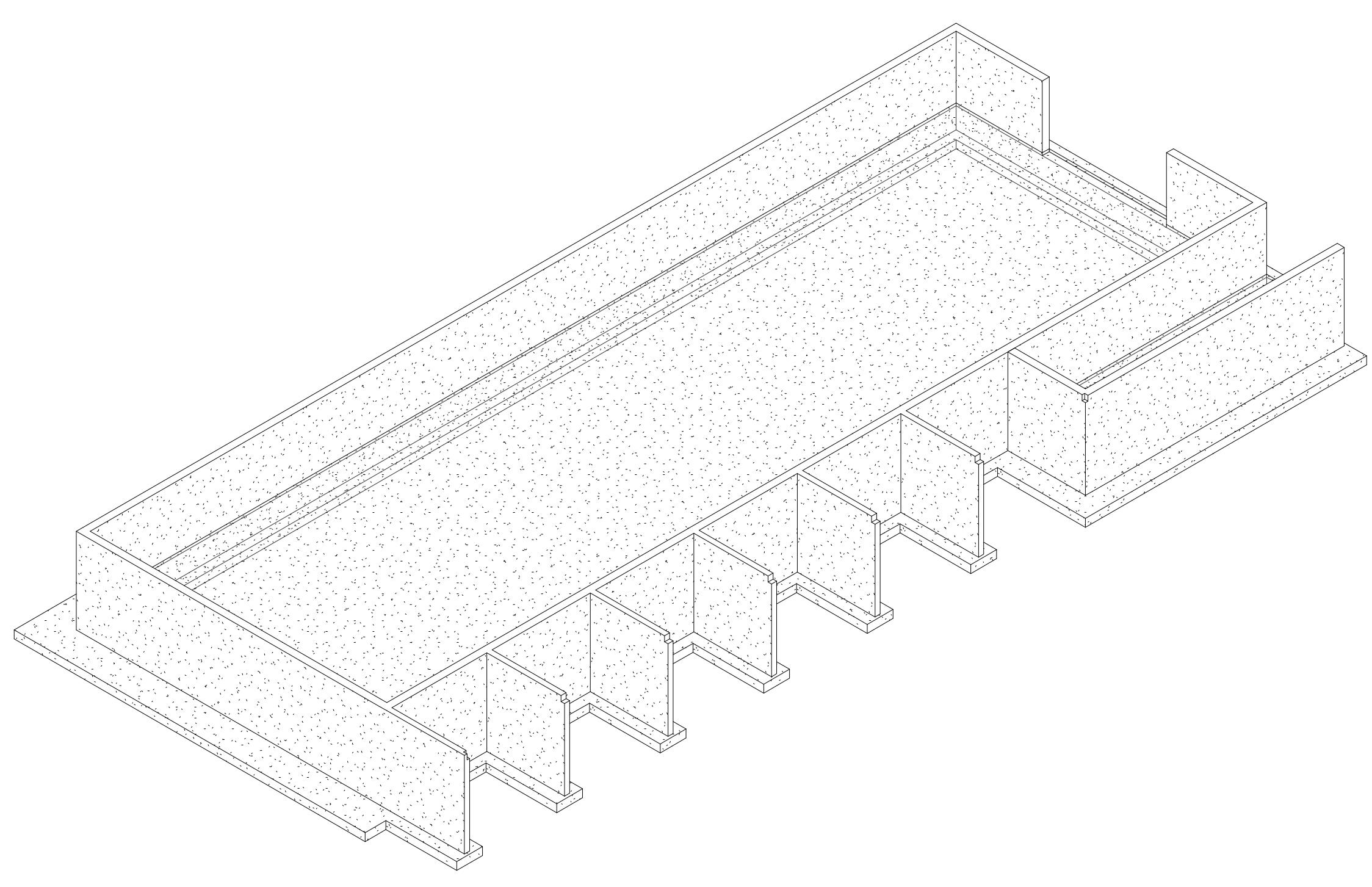


3 Notched Wall for Beam
S-1.1 Scale: 1 1/2" = 1'-0"

1 Foundation Plan
S-1.1 Scale: 1/8" = 1'-0"



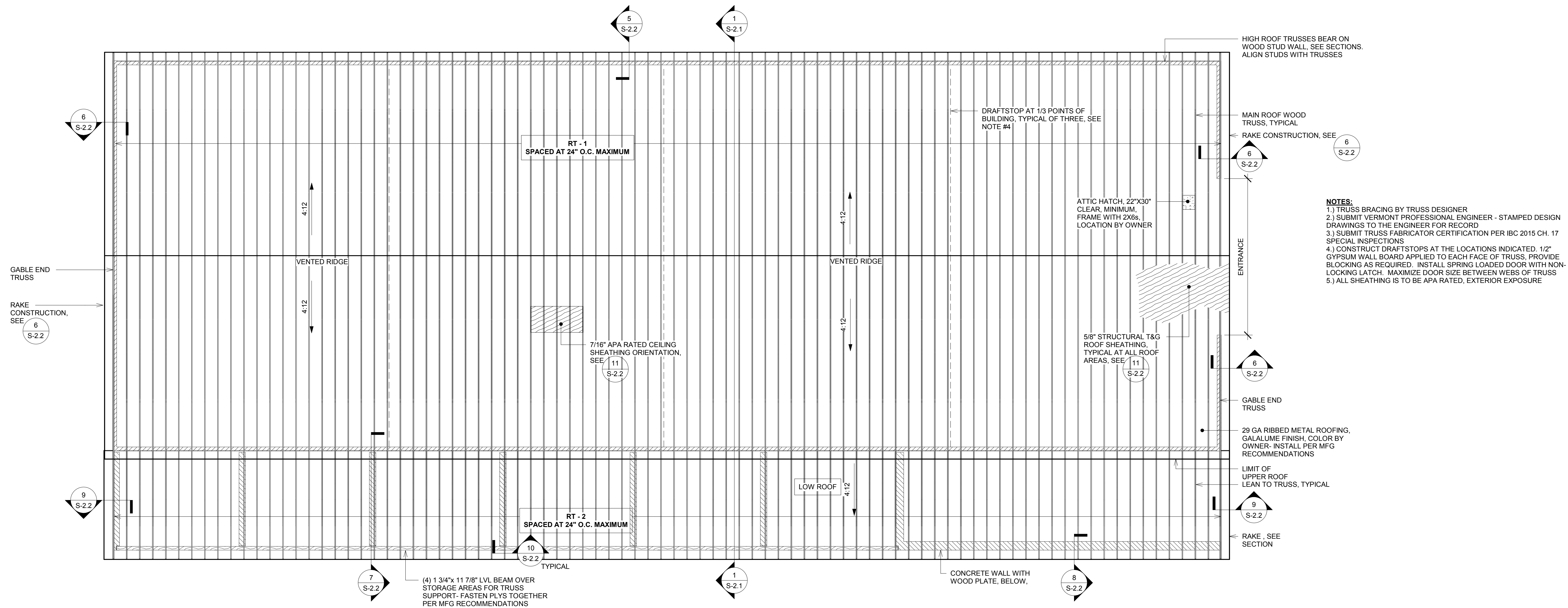
Foundation Isometric 1
Not To Scale



Foundation Isometric 2
Not To Scale

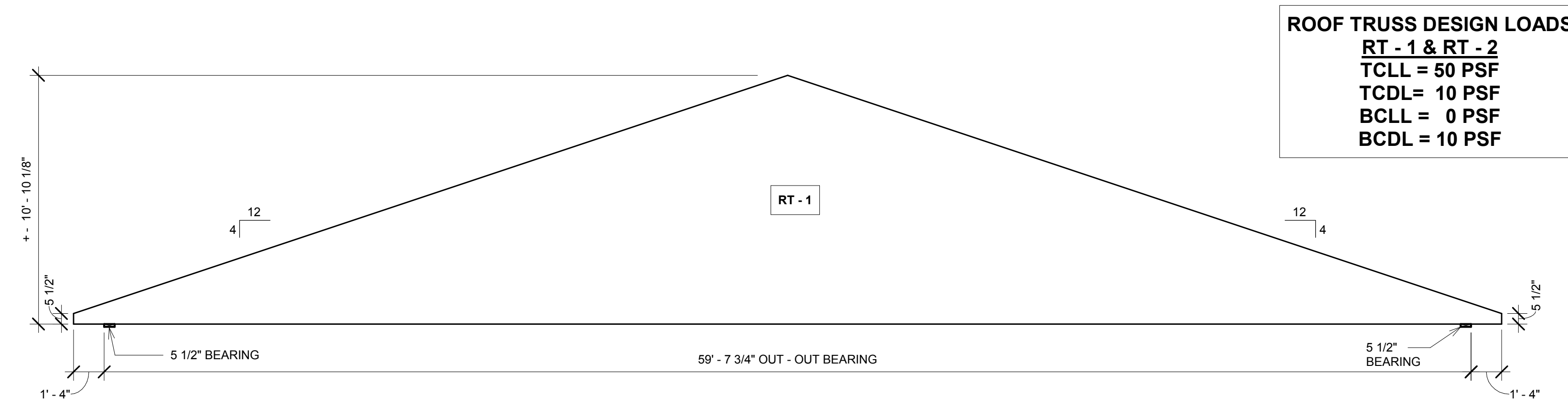
PROJECT NAME :	FAIRFIELD TOWN SALT SHED	PLOT DATE :	JAN 12, 2018
PROJECT NUMBER :	FAIRFIELD TAP TA 16 (9)	DRAWN BY :	BD
FILE NAME :	FAIRFIELD SAND SHED	DESIGNED BY :	BRIAN DOUGLAS
FOUNDATION PLAN & DETAILS		CHECKED BY :	PHC
			SHEET 6 OF 9

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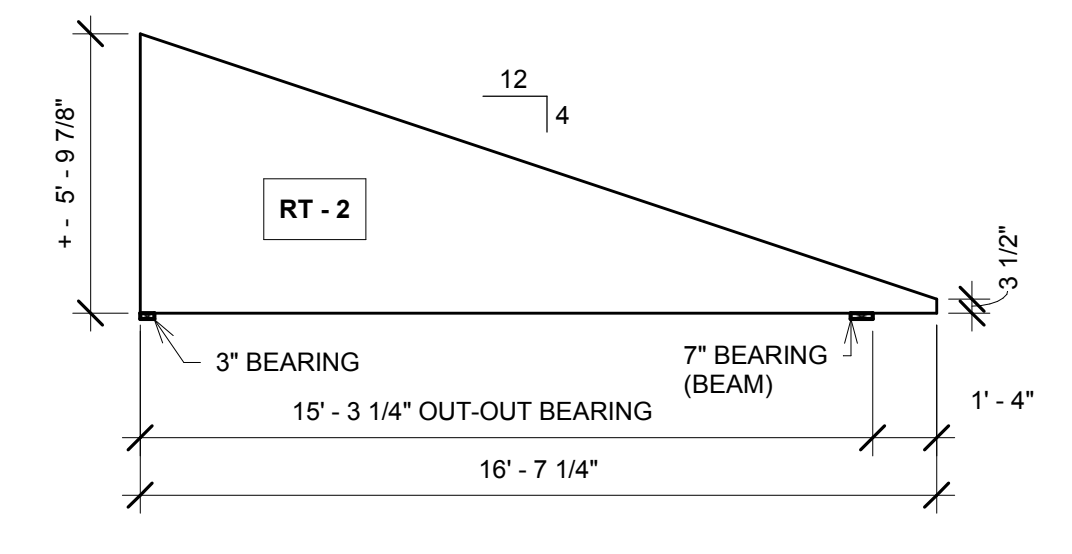


- NOTES:**
- 1.) TRUSS BRACING BY TRUSS DESIGNER
 - 2.) SUBMIT VERMONT PROFESSIONAL ENGINEER - STAMPED DESIGN DRAWINGS TO THE ENGINEER FOR RECORD
 - 3.) SUBMIT TRUSS FABRICATOR CERTIFICATION PER IBC 2015 CH. 17 SPECIAL INSPECTIONS
 - 4.) CONSTRUCT DRAFTSTOPS AT THE LOCATIONS INDICATED. 1/2" GYPSUM WALL BOARD APPLIED TO EACH FACE OF TRUSS, PROVIDE BLOCKING AS REQUIRED. INSTALL SPRING LOADED DOOR WITH NON-LOCKING LATCH. MAXIMIZE DOOR SIZE BETWEEN WEBS OF TRUSS
 - 5.) ALL SHEATHING IS TO BE APA RATED, EXTERIOR EXPOSURE

1 Roof Framing Plan
Scale: 1/8" = 1'-0"

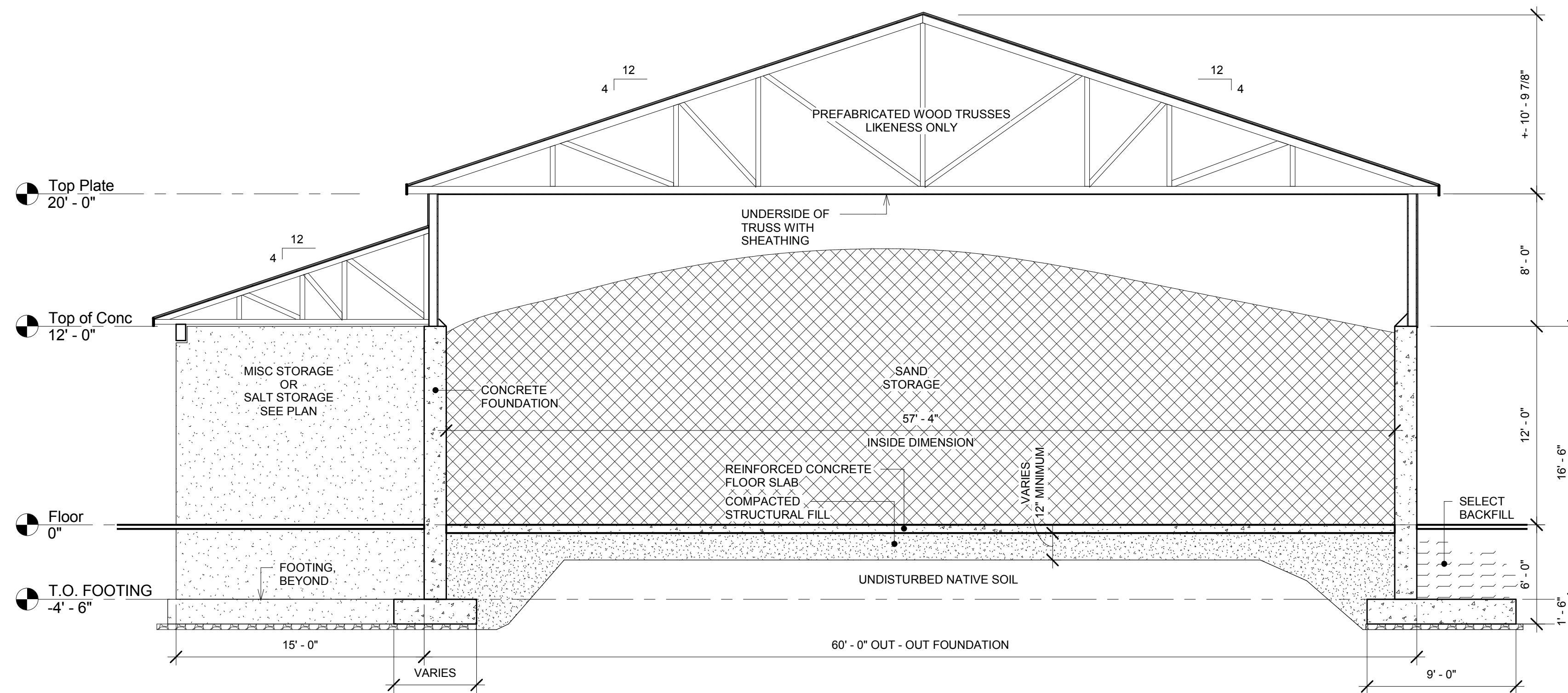


2 RT - 1 Truss Diagram
Scale: 1/4" = 1'-0"



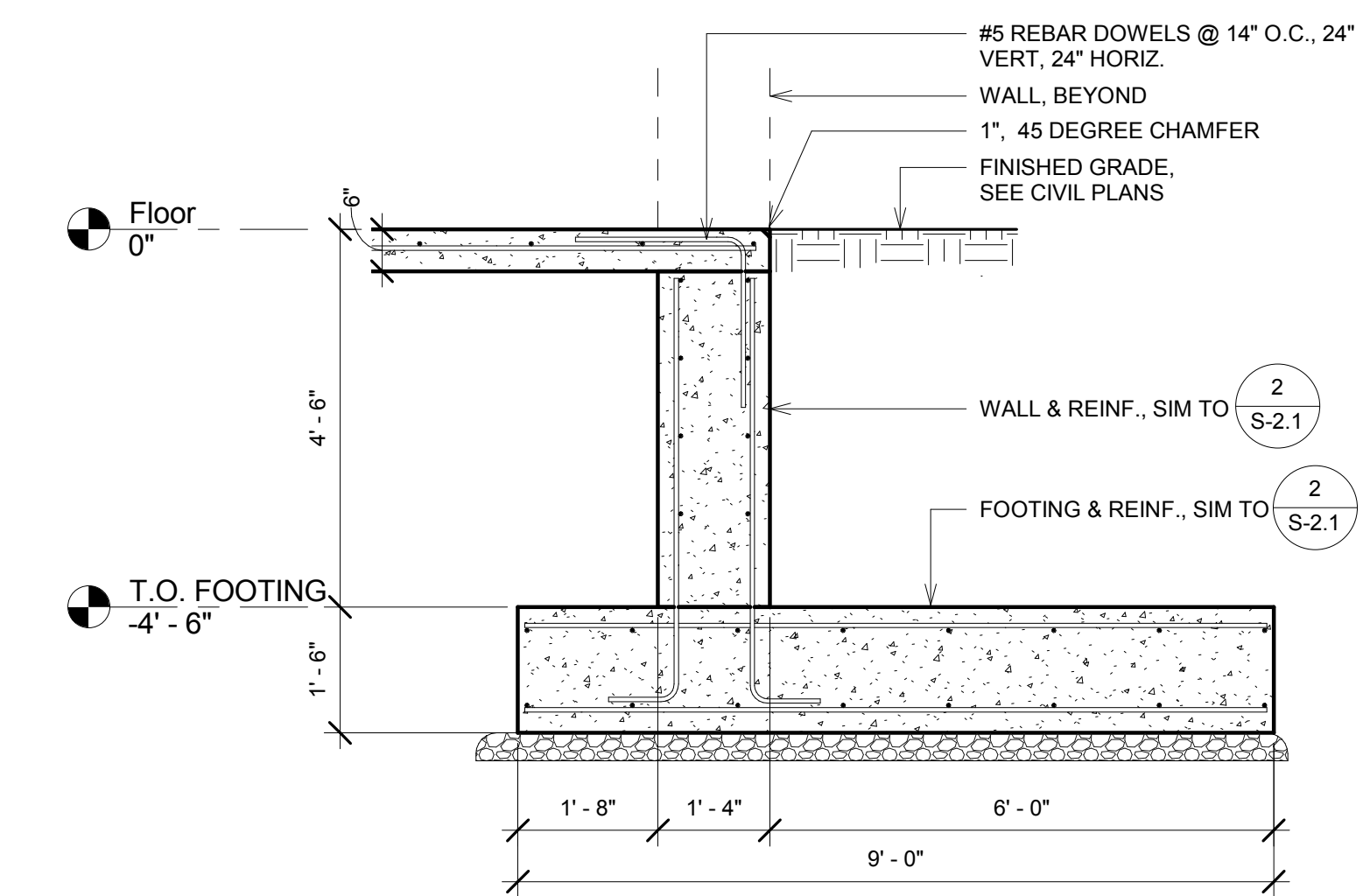
3 RT - 2 Truss Diagram
Scale: 1/4" = 1'-0"

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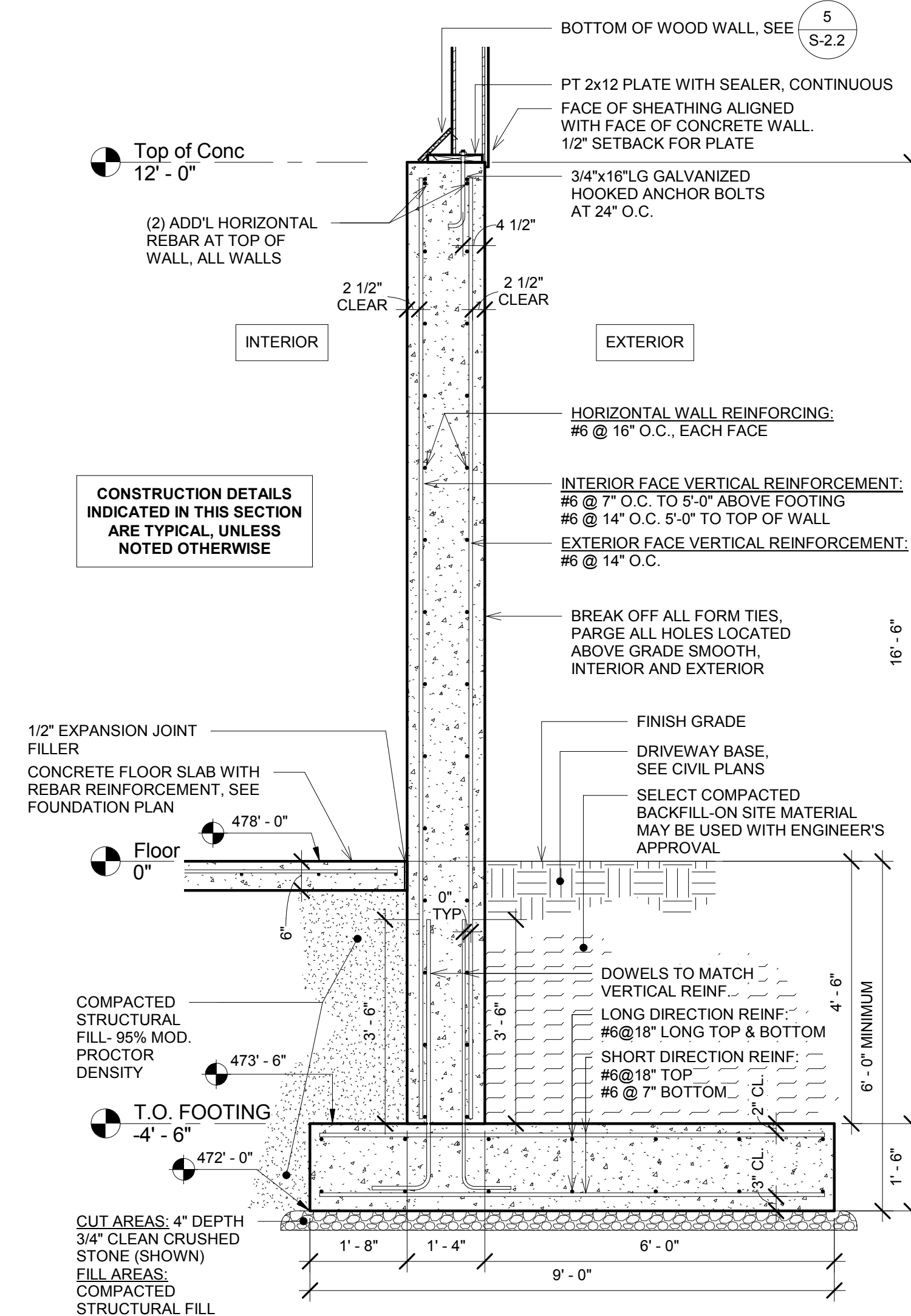
1 Overall Section

S-2.1 Scale: 3/16" = 1'-0"



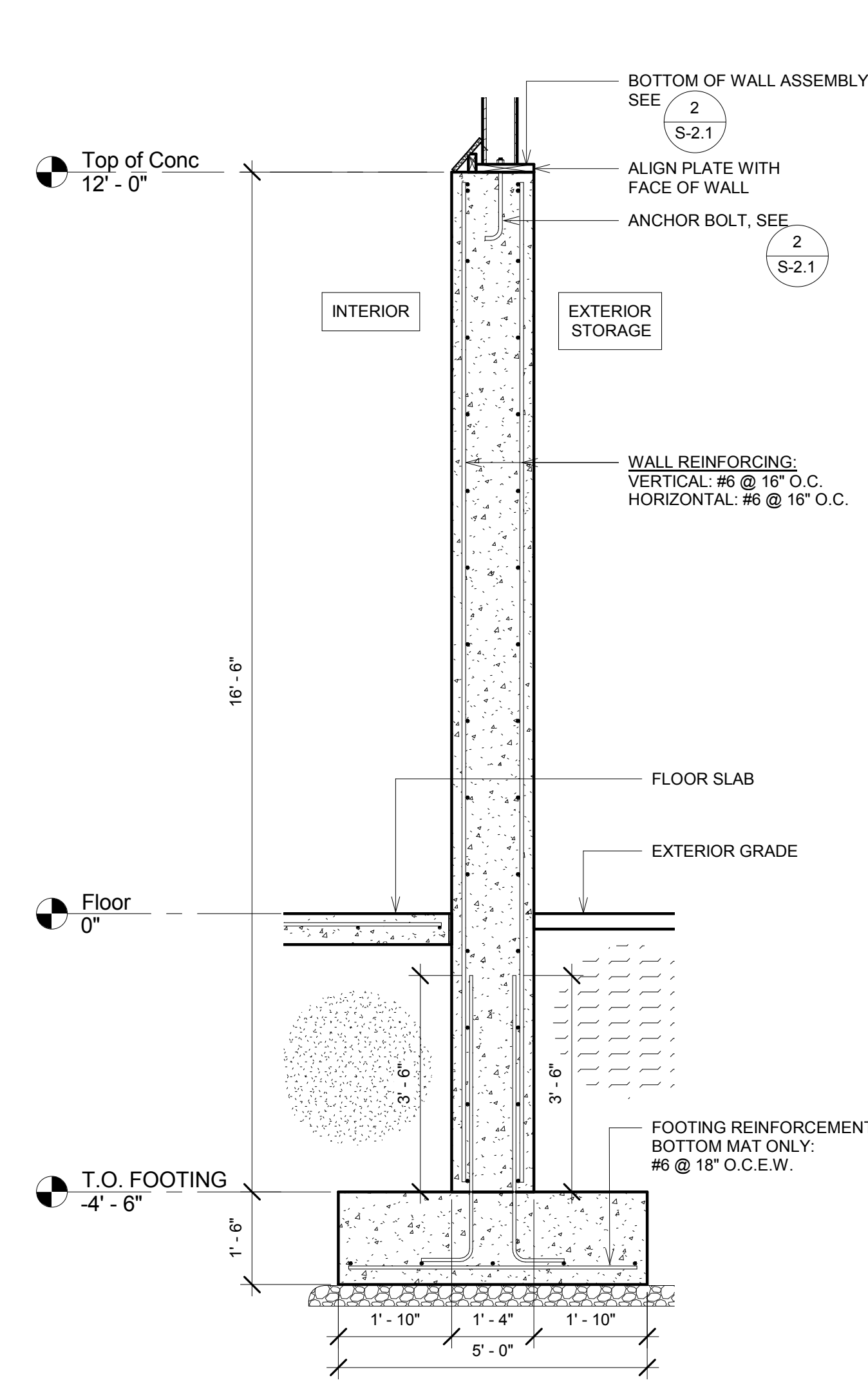
5 Section at Door

S-2.1 Scale: 1/2" = 1'-0"



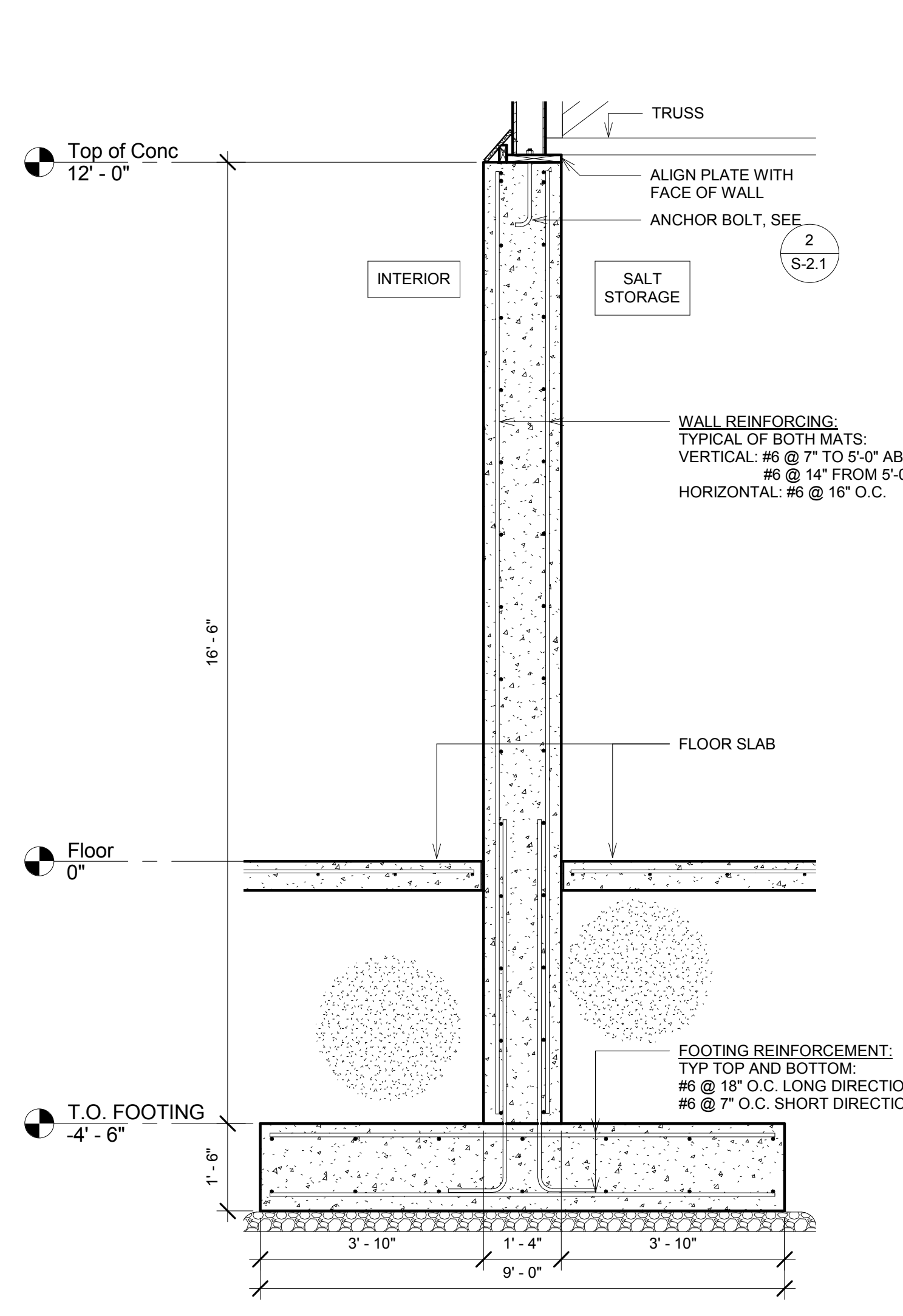
2 Typical Sand Shed Wall Section W-1

S-2.1 Scale: 1/2" = 1'-0"



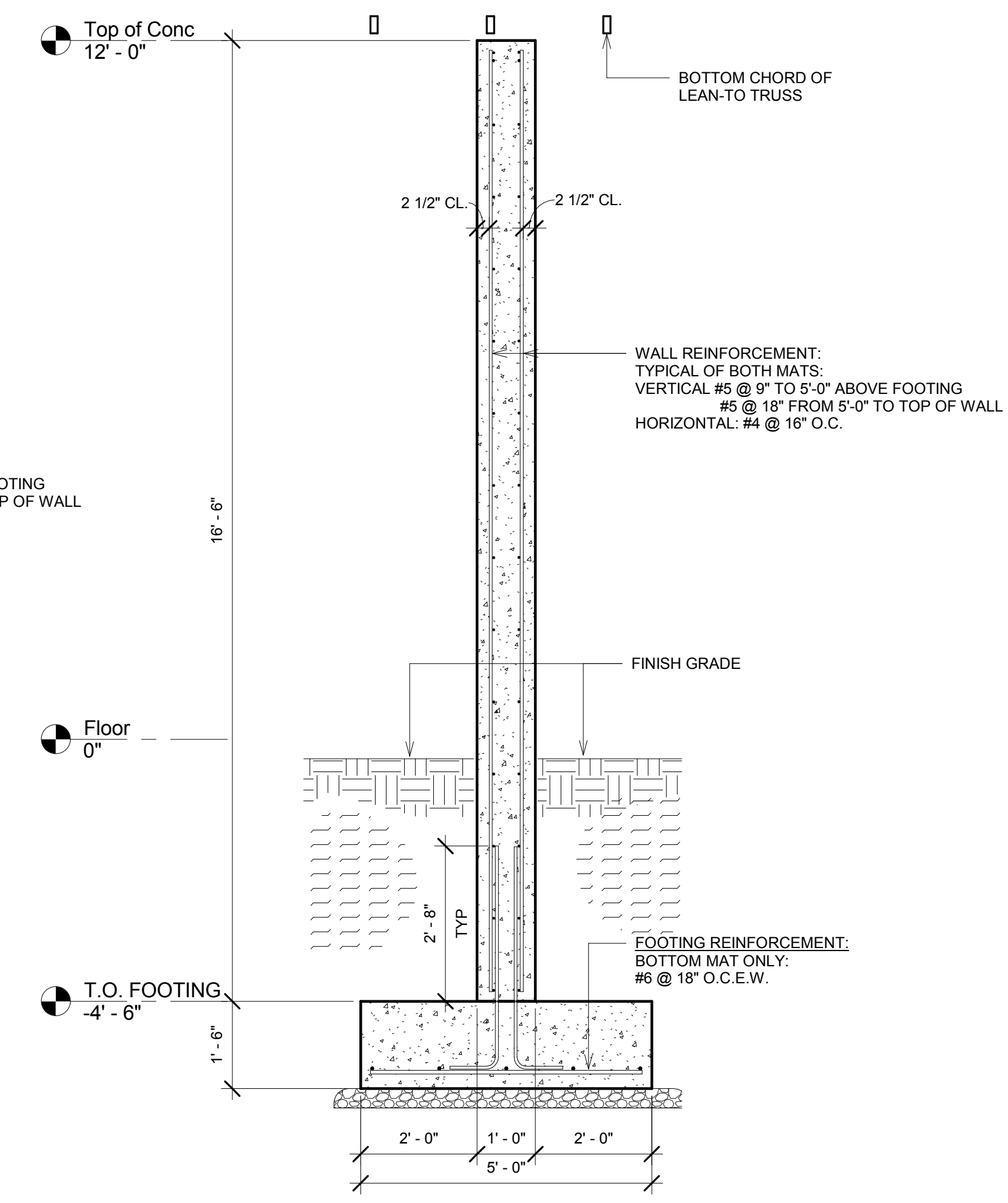
3 Foundation Wall Section W-2

S-2.1 Scale: 1/2" = 1'-0"



6 Foundation Wall Section W-3

S-2.1 Scale: 1/2" = 1'-0"

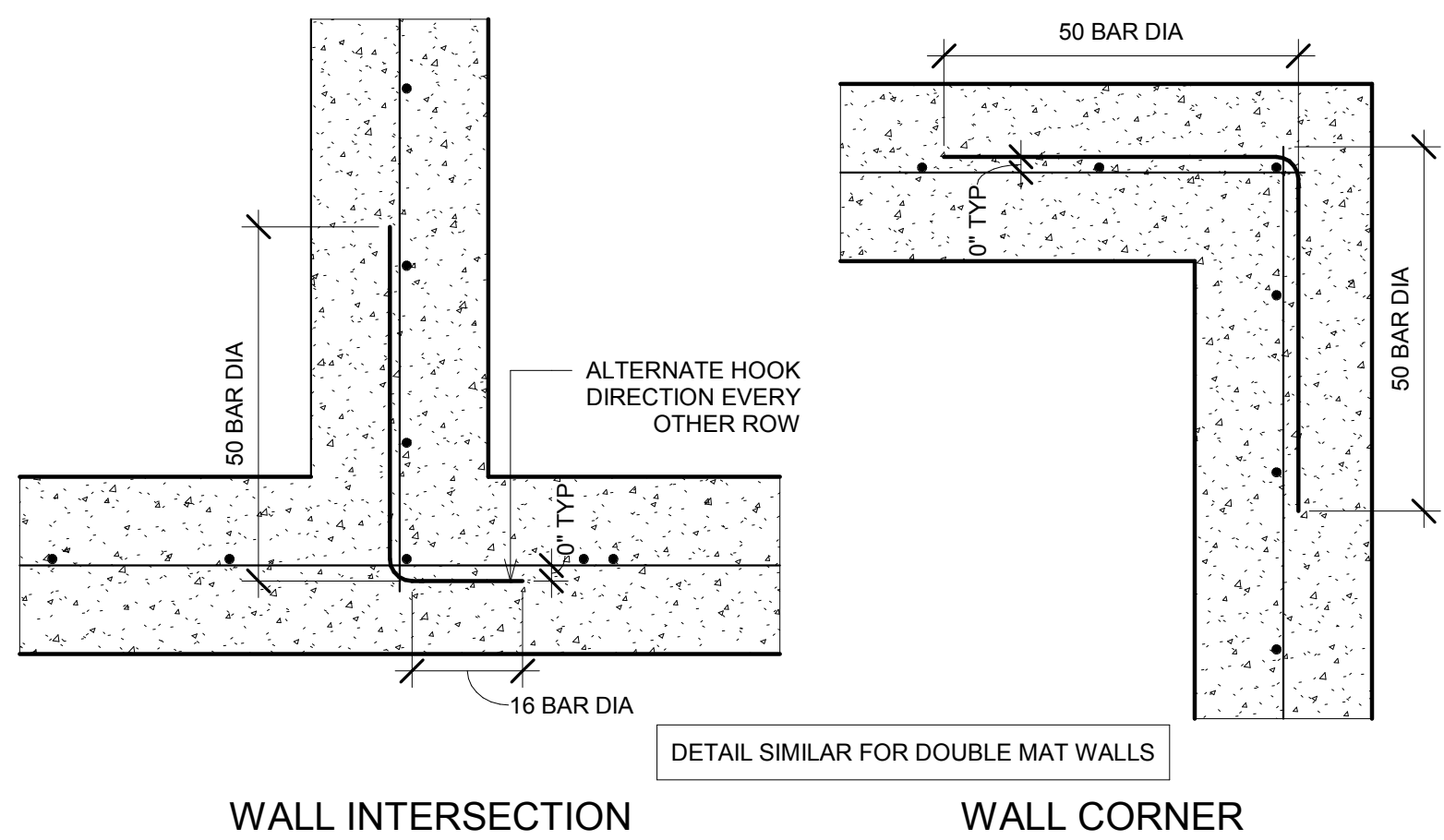


4 Section at Storage

S-2.1 Scale: 1/2" = 1'-0"

PROJECT NAME :	FAIRFIELD TOWN SALT SHED
PROJECT NUMBER :	FAIRFIELD TAP TA 16 (9)
FILE NAME :	FAIRFIELD SAND SHED
PROJECT LEADER :	BRIAN DOUGLAS
DESIGNED BY :	BRIAN DOUGLAS
STRUCTURAL DETAILS :	
PLOT DATE :	JAN 12, 2018
DRAWN BY :	BD
CHECKED BY :	PHC
SHEET	8 OF 9

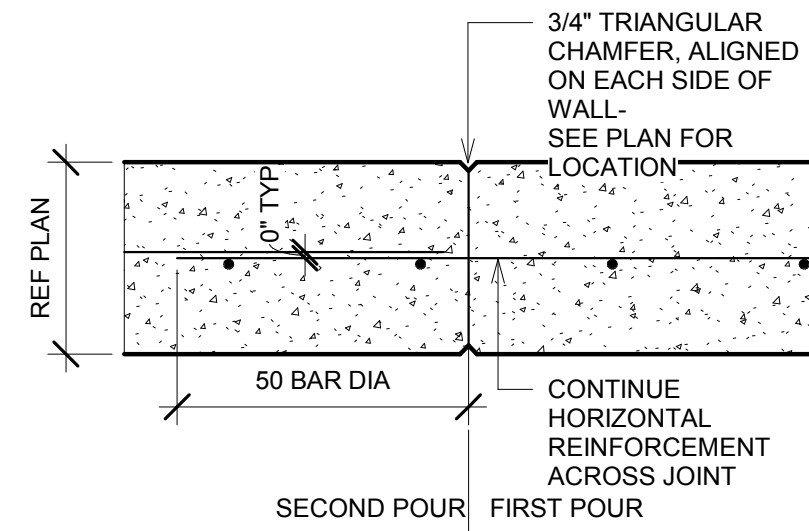
© 2018, Revised 10/17/17 Fairfield Salt Shed/Current/Revised/Sheet/Salt Shed storage, 10/17/17
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WALL INTERSECTION

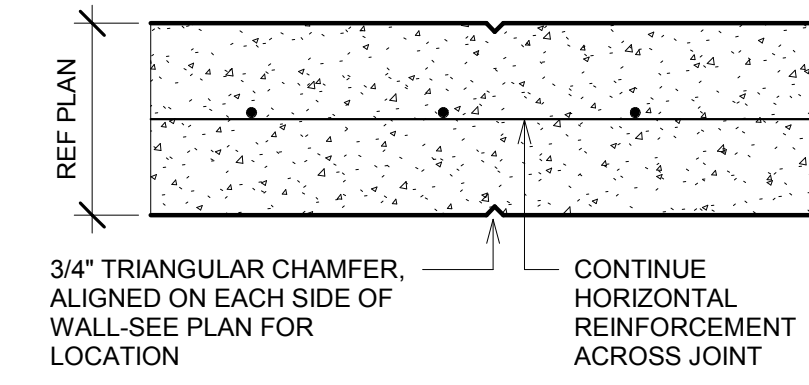
WALL CORNER

END OF WALL OR WALL STEP

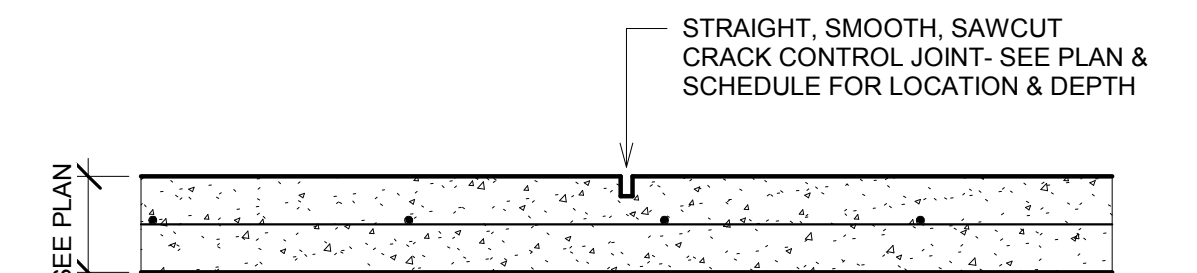


NOTES:
1.) ALLOW 5 DAYS BETWEEN POURS
2.) DETAIL SIMILAR FOR TWO MATS OF REINFORCEMENT

2 Concrete Wall Construction Joint
S-2.2 Scale: 1" = 1'-0"

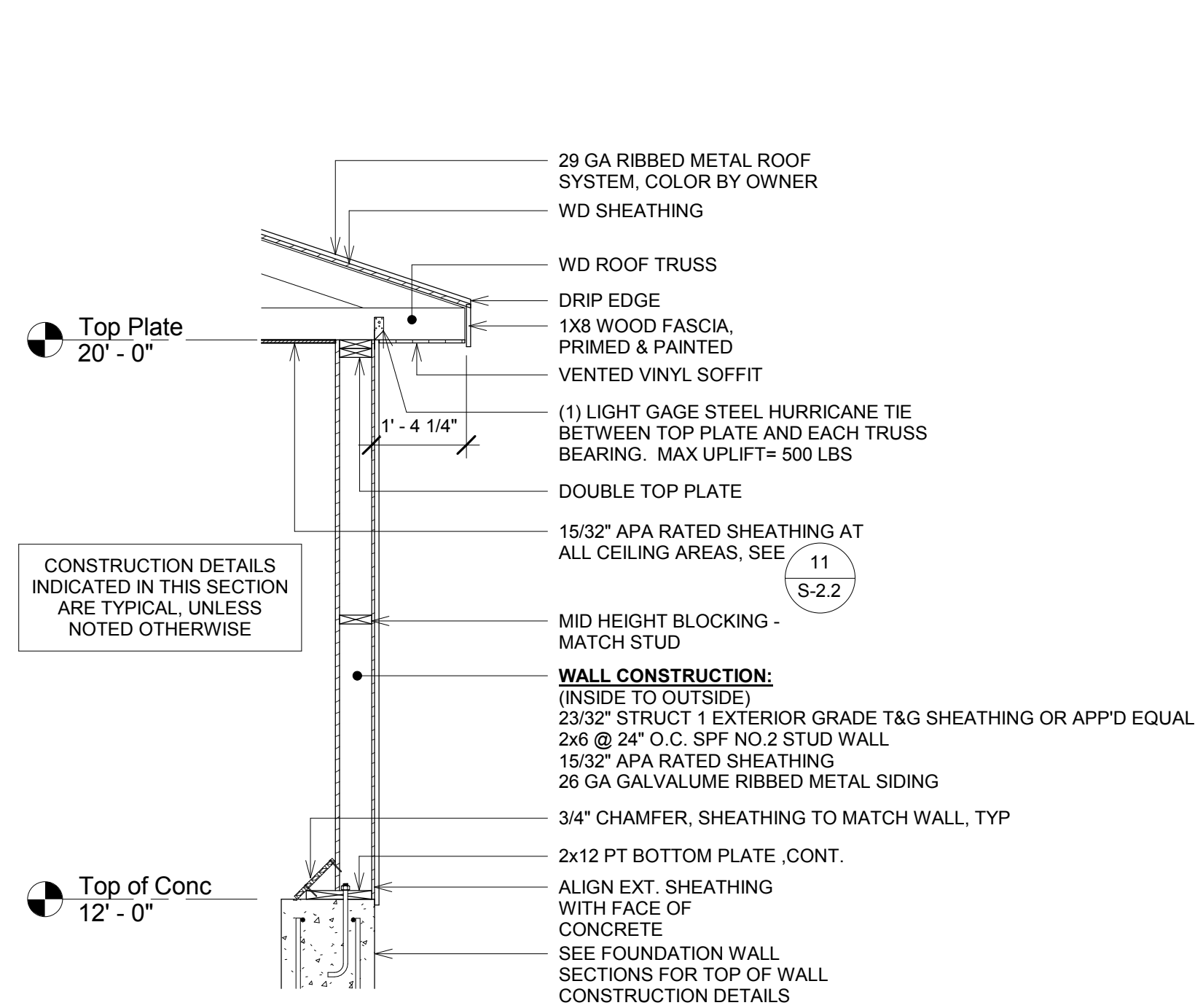


3 Concrete Wall Control Joint
S-2.2 Scale: 1" = 1'-0"

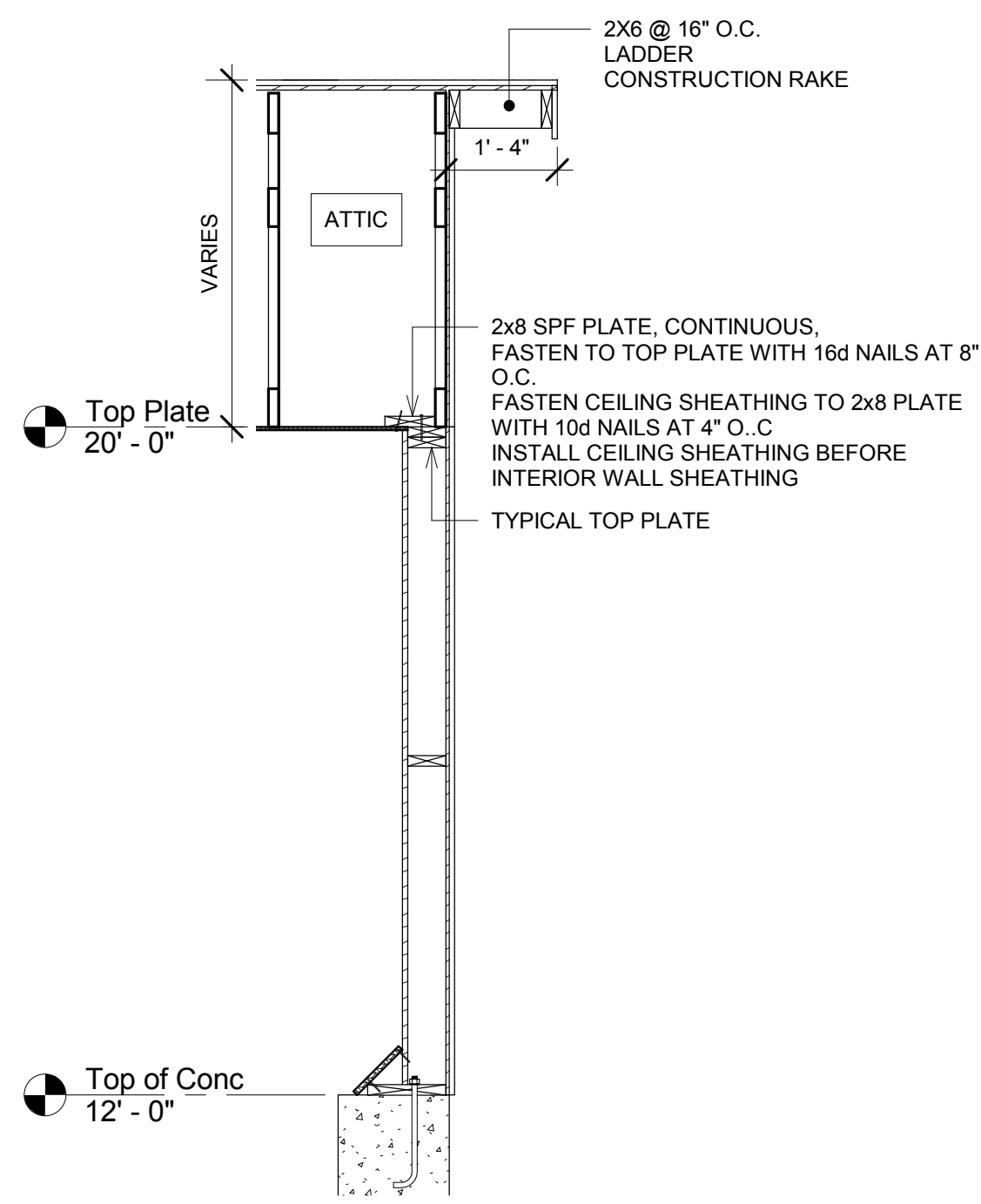


4 Concrete Slab Joints
S-2.2 Scale: 1" = 1'-0"

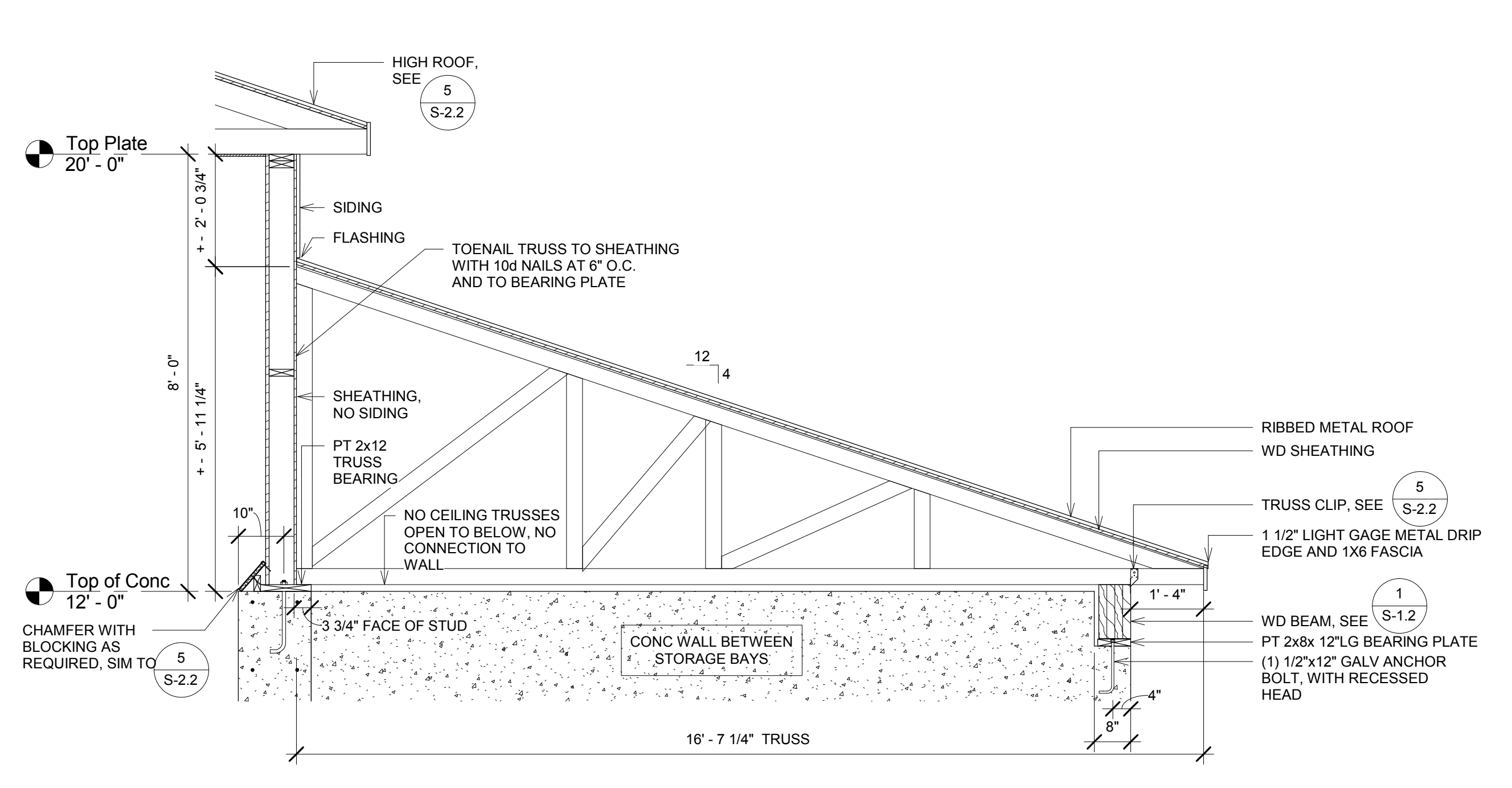
1 Concrete Wall Horizontal Reinforcing
S-2.2 Scale: 1" = 1'-0"



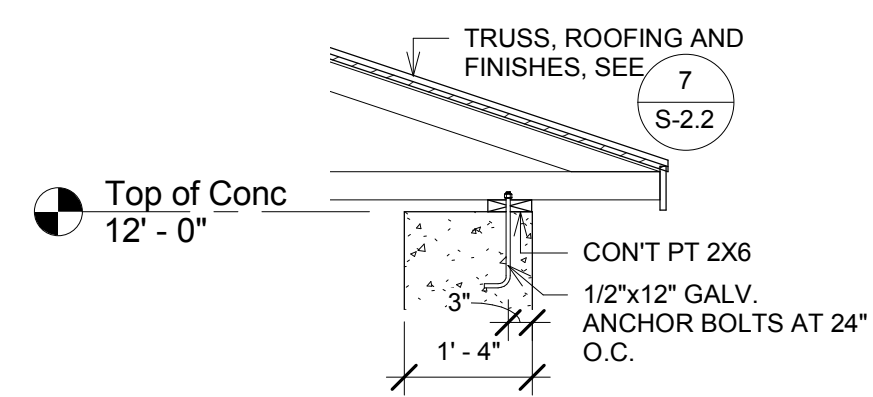
5 High Roof Bearing Section
S-2.2 Scale: 1/2" = 1'-0"



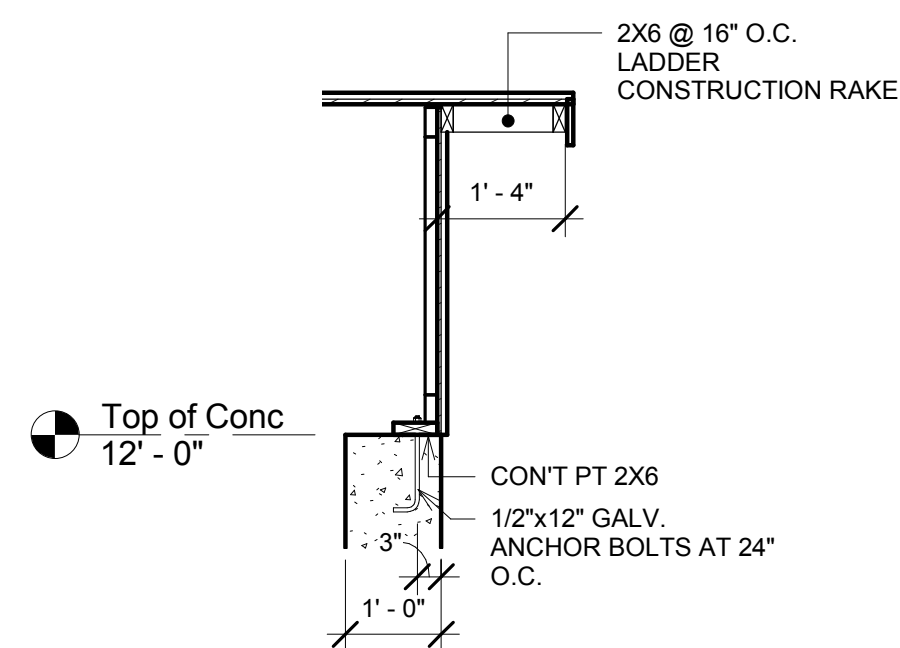
6 High Roof Gable End Section
S-2.2 Scale: 1/2" = 1'-0"



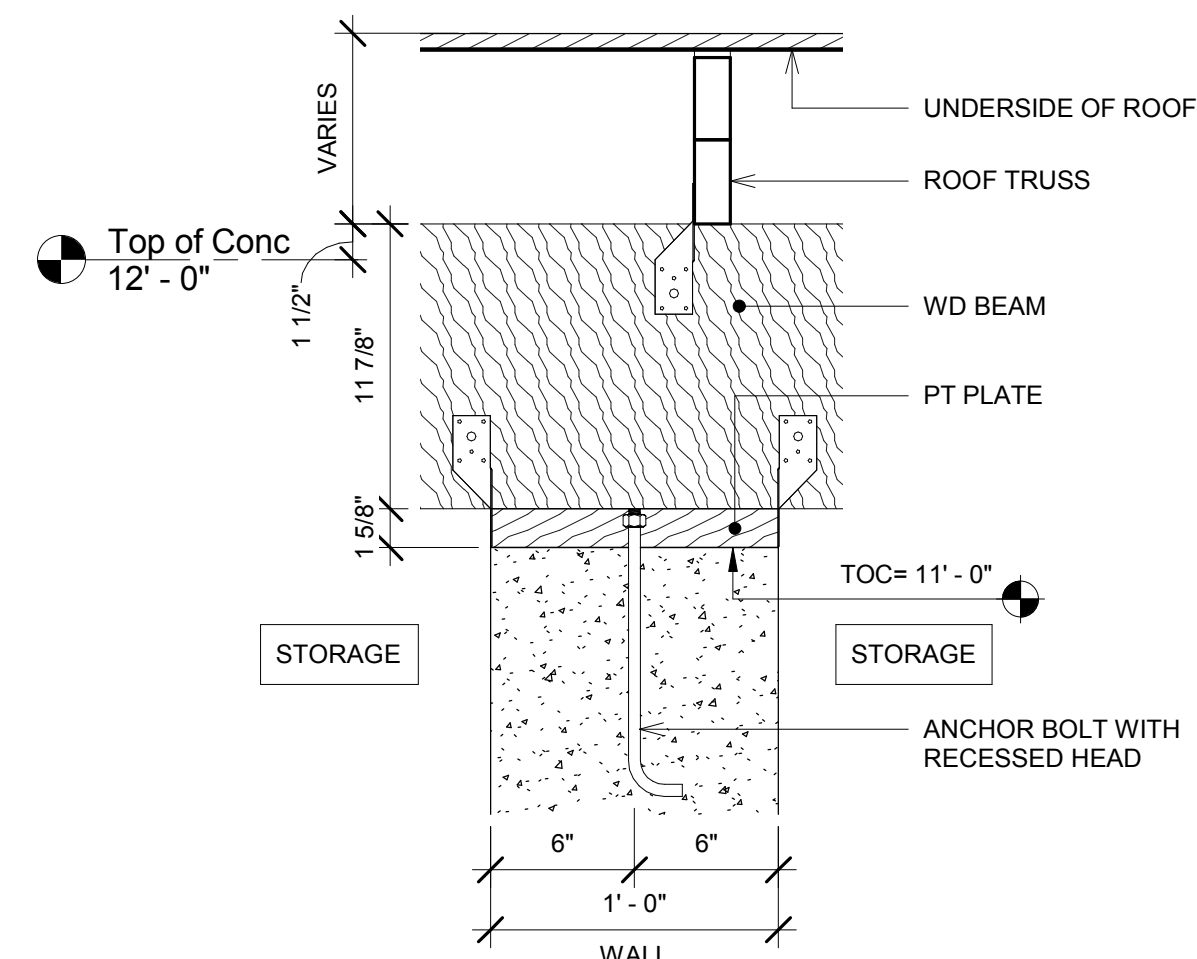
7 Storage Roof Section
S-2.2 Scale: 1/2" = 1'-0"



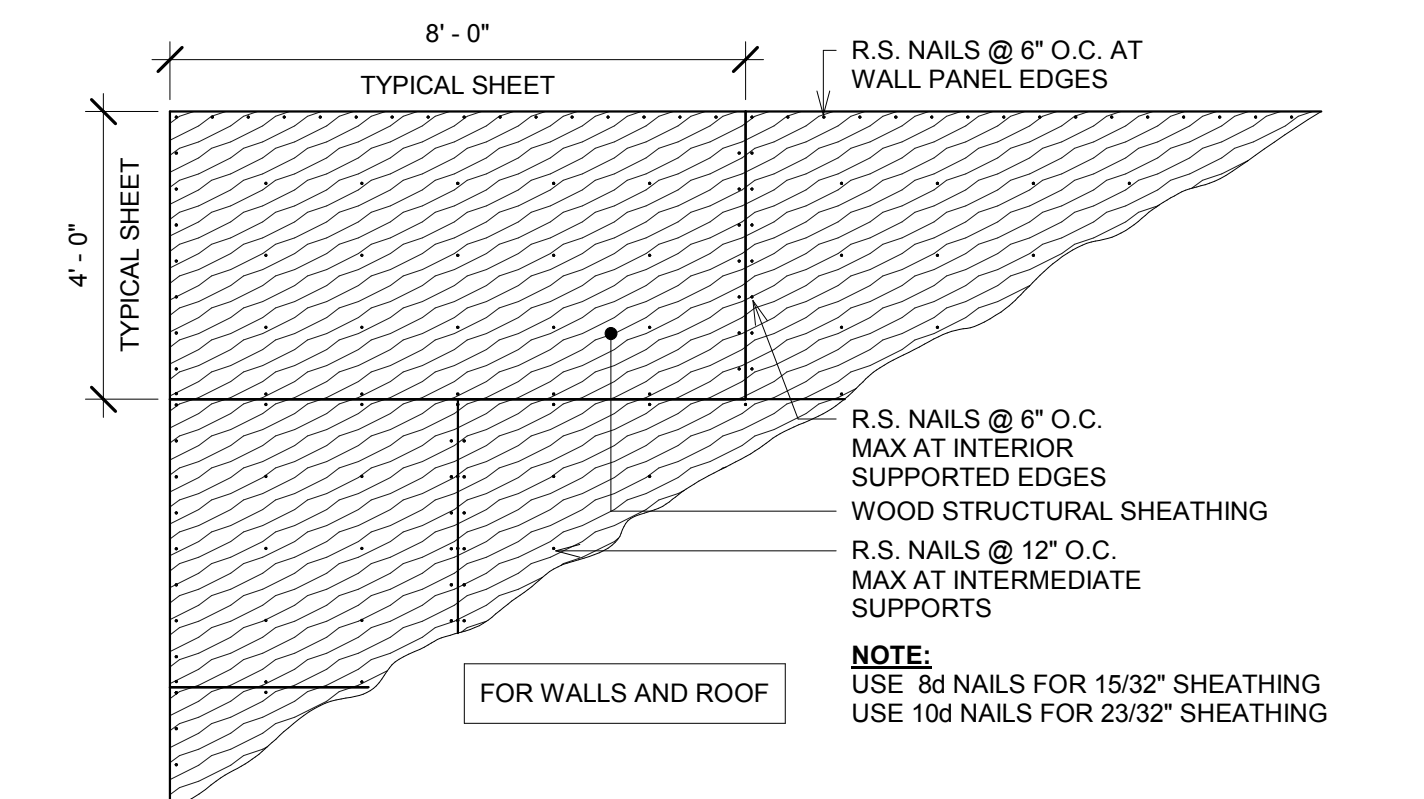
8 Low Roof Bearing at Conc Wall
S-2.2 Scale: 1/2" = 1'-0"



9 Low Roof, Gable End Section
S-2.2 Scale: 1/2" = 1'-0"



10 LVL Bearing Section
S-2.2 Scale: 1 1/2" = 1'-0"



11 Sheathing Nailing Pattern
S-2.2 Scale: 3/8" = 1'-0"

PROJECT NAME : FAIRFIELD TOWN SALT SHED
PROJECT NUMBER : FAIRFIELD TAP TA 16 (9)

FILE NAME : FAIRFIELD SAND SHED
PROJECT LEADER : BRIAN DOUGLAS
DESIGNED BY : BRIAN DOUGLAS
STRUCTURAL DETAILS

PLOT DATE : JAN 12, 2018
DRAWN BY : BD
CHECKED BY : PHC
SHEET 9 OF 9

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2/2/2018 2:10:30 PM