



Minutes of the NVC Utilities Committee

2:30 pm, April 17, 2020

Zoom

Attendees:

David Crofoot: Chair
Miles Frieden: Overseer
Mike Lannan: Overseer
Judy Metcalf: Overseer
Jim Coughlin
Janae Novotny
Steve Trenholm
Dan Webster
Ed Williams
Craig

Richard McElhaney: Superintendent (absent)
Bill Paige: Village Agent (absent)
Gordon Fuller: Community Representative (resigned)

Meeting called to order at: 2:30 pm

Approval of minutes:

Review and Approval of Minutes

- Judy M. motions to accept the minutes, David C. requests discussion
 - Mike L. has question about the bid for the wastewater treatment building, states that the design was never approved and there was not a vote.
 - Judy M. motions for Nina R. to append wording to minutes to reflect more closely what was discussed in last meeting, David C. seconds, Miles will abstain. Vote is two in favor, one opposed (Mike L.)
- **Superintendent's Report**
 - David C. reads aloud the advertisement for bid for the wastewater treatment building.
 - Judy M. goes over the other information in the report, if there are any questions, please email to Richard M. and copy the Village and David C.
 - Judy states that **comments from villagers regarding the new rates were addressed.**
 - There is discussion regarding odor and gas control, it was discussed in June and July 2019 meetings and no formal decision has been made yet.
- There is a lengthy discussion initiated by Mike L. regarding the bid that has been sent out, the fact that it was not finalized before being sent out; it is stated that in the previous meeting they agreed to have Richard M. proofread it and then send it out; there was not enough public input on the building; changes have happened in the design since the public was informed.



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- There are items that are not in the design that will be added/changed, including: wooden steps instead of concrete, possible lattice. These items are not in the plans because it is anticipated that they will be completed by volunteers
 - Discussion regarding height of the building and flood barriers.
 - Mike L. requests a vote on the design.
 - Judy M. motions that the design with modifications approved on March 13, 2020, that are subject to bid specs be approved, David C. seconds
 - Mike L. presents PowerPoint presentation about alternative designs for the building.
 - Discussion regarding making changes and timing. Mike L. states there is time to make changes
 - Vote – three in favor, one opposed (Mike L.)

New Business:

- Judy M. states the bid logistics will be coordinated between Richard M. and Dirigo Engineering, and others be copied on emails.
- David C. discusses the shoreline building use permit that Richard M. sent to him and needs to be signed, he sent it to everyone to look at

Public Comments

- Craig – states that he feels left out of the process as a member of the public, minutes are missing on the bayside.com website. Feels there is a lack of public input in regards to the wastewater treatment building.
 - Judy M. states that there were issues with Minutes in the past but that the public can request copies at any time by written request.
- Dan W. – states that Zoom meetings are great and would like them to continue after the pandemic.
- Steve T. – he dislikes the building design and wishes it could have been kept more traditional.
- Janae N. – feels the Village has done a good job with information on the calendar, and that there is sufficient info for follow-up and questions. Asks about the timeline that Mike L. references.
 - Judy M. states that if there is a problem with the timeline that it can be addressed.
- David C. – At public meeting, a Bayside cottage was discussed, but the height would have been too much, they went for a more yacht club roof design, in August or September there was a vote for the shallower roof.
- Ed W. – asking about water meter installation
 - Judy M. – meters will be installed by 05/01/2020
- Craig – asks what the public can do about their concerns beyond the Utilities Committee, perhaps Overseers.
 - Judy M. states that the Overseers have no role in this process, not funded with taxpayer money, but that Overseers are receptive to public comments at all meetings.
 - Mike L. has question about the Utilities owning any property within the village.
 - Judy M. states that the Utilities own their buildings, not the property. The design of the building and money spent is decided by the Utilities Trustees



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Meeting Adjourned: at 4:35 pm

The next Utilities Committee Meeting is at 2:30 pm on Friday, May 8th.

Meeting minutes submitted by Nina Richard.

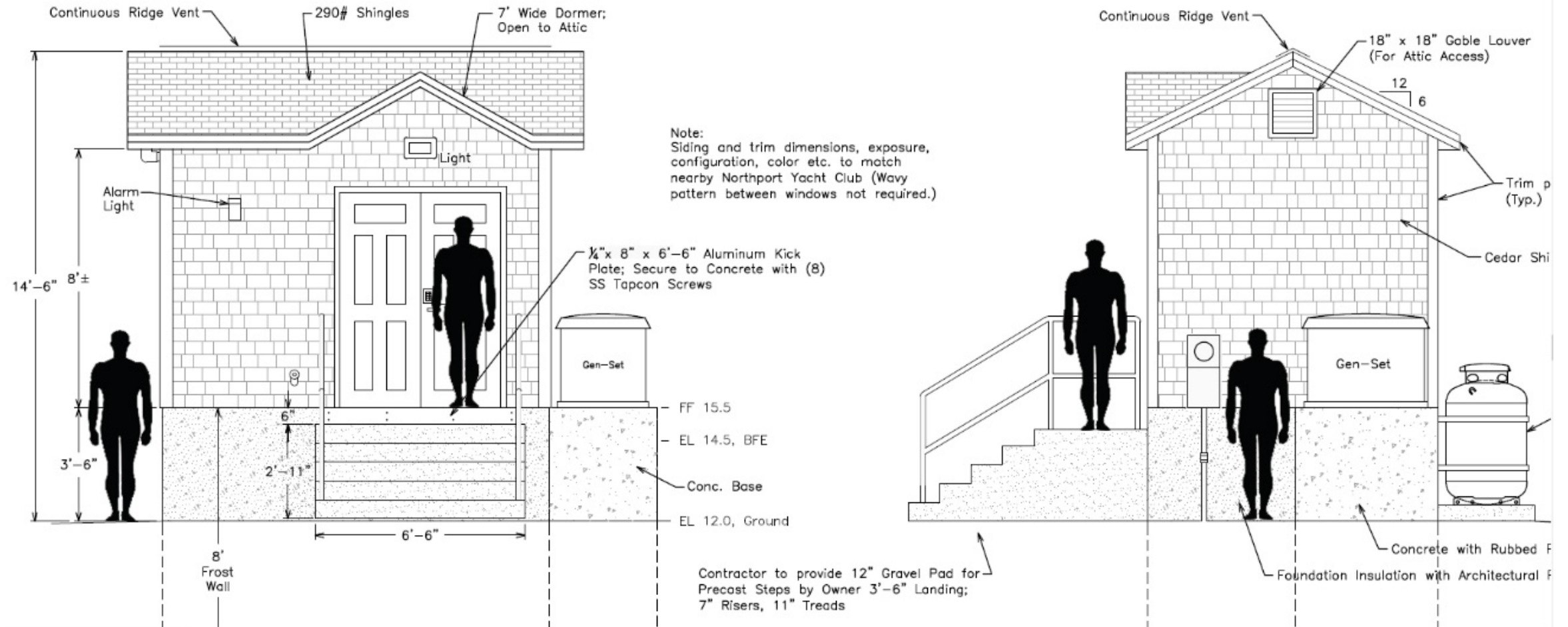
AMENDED

Possible Wastewater Treatment Disinfection Building Dimensional Design Alternatives for Discussion

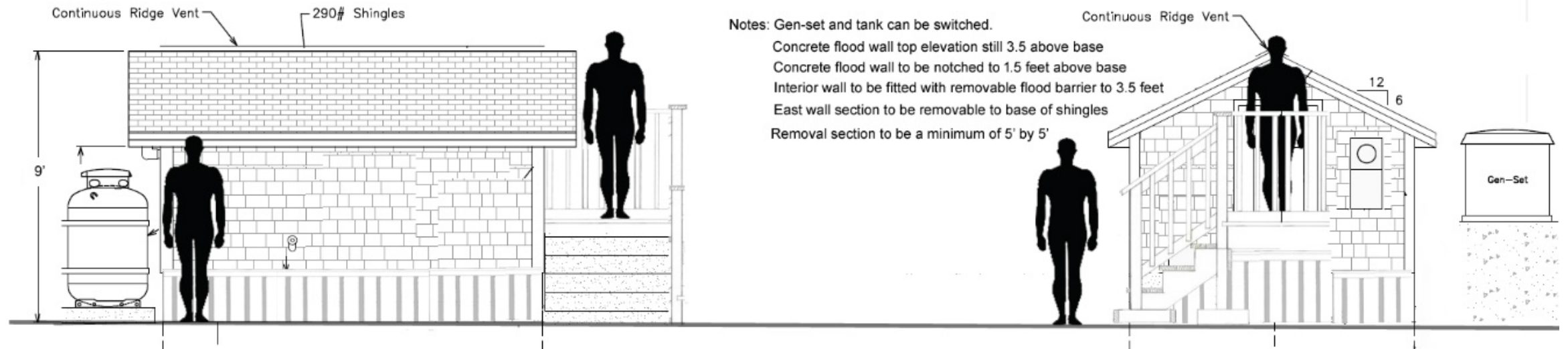
Utilities Meeting

4/17/2020

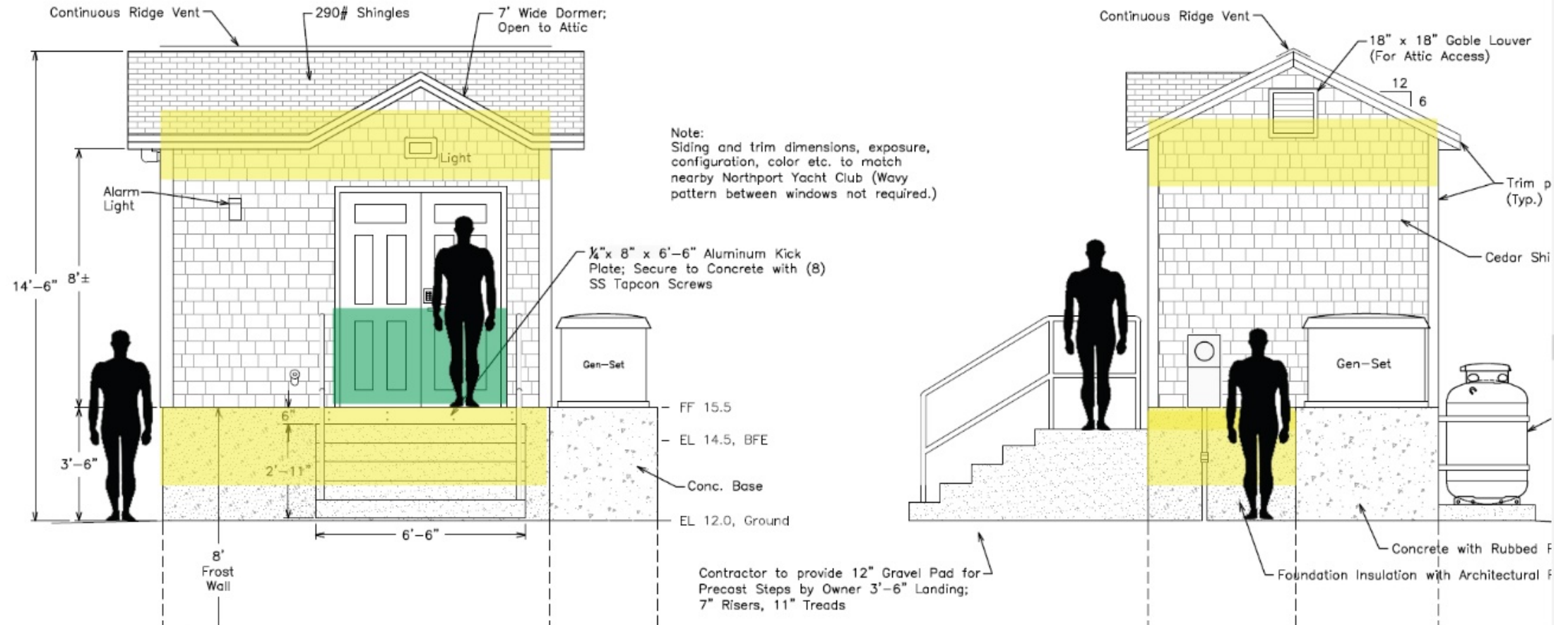
Current Design Alternative



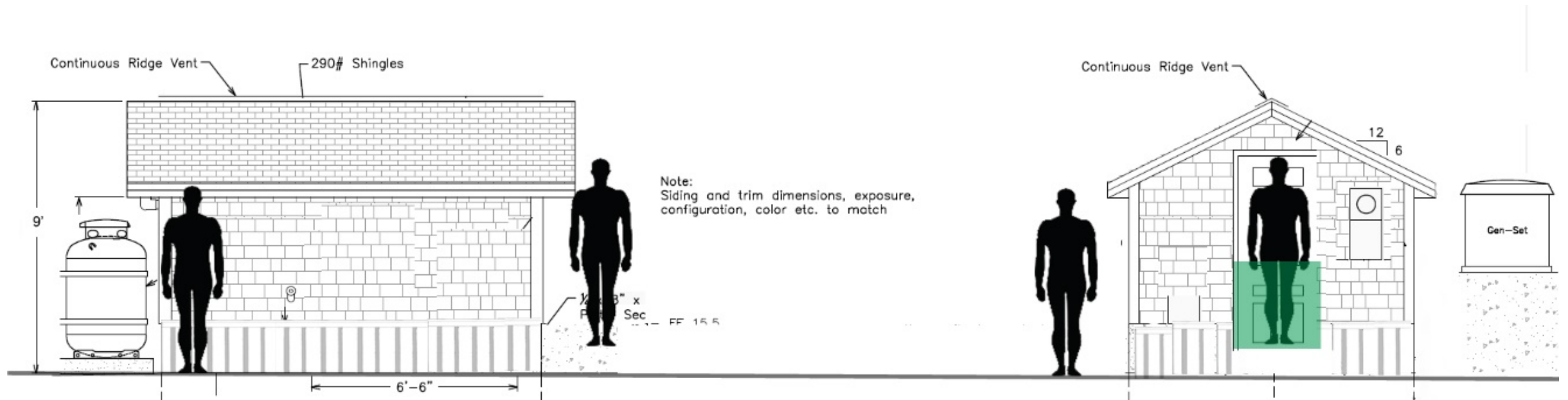
Shorter Design Alternative with Manway Access



Shorter Current Design Alternative with Flood Barrier



Shorter Design Alternative with Doorway Access and interior Flood Barrier



Examples of Exterior Flood Barriers



Examples of Interior Flood Barriers



Details of Interior Flood Barriers

PLAN

3'-4"

WET

1/ROS

4'-6 5/8"

1/ROS

5'

ELEVATION VIEW FROM INSIDE

3'-4"

1/ROS

1/ROS

4'-3 3/8"

4'-1 1/2"

5'

OPENING 03
 DOOR 110.2 KITCHEN TO EXTERIOR SEATING
 FLOOD LOG™ SYSTEM
 W/PRIMED PAINTED STEEL
 REVERSE OFFSET SUPPORTS
 W/WALL MOUNT EMBED PLATES
 48" HT.
 ROS/ROS

General Notes

ARCHITECTURE METALS
 FLOOD LOG SHOP
 DRAWINGS

1	4/13/18	
No.	Revision/Issue	Date

Project Name and Address

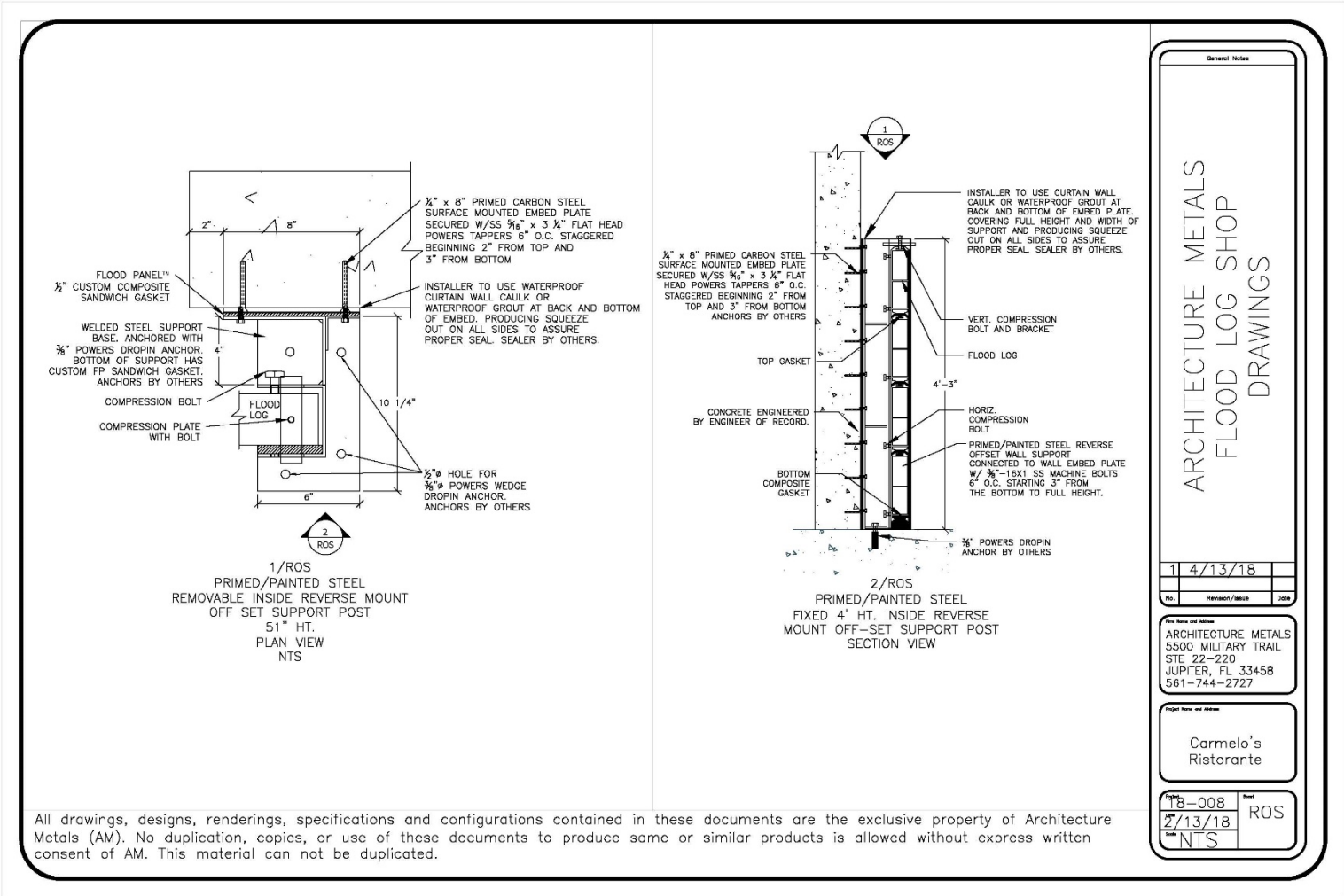
ARCHITECTURE METALS
 5500 MILITARY TRAIL
 STE 22-220
 JUPITER, FL 33458
 561-744-2727

Carmelo's
 Ristorante

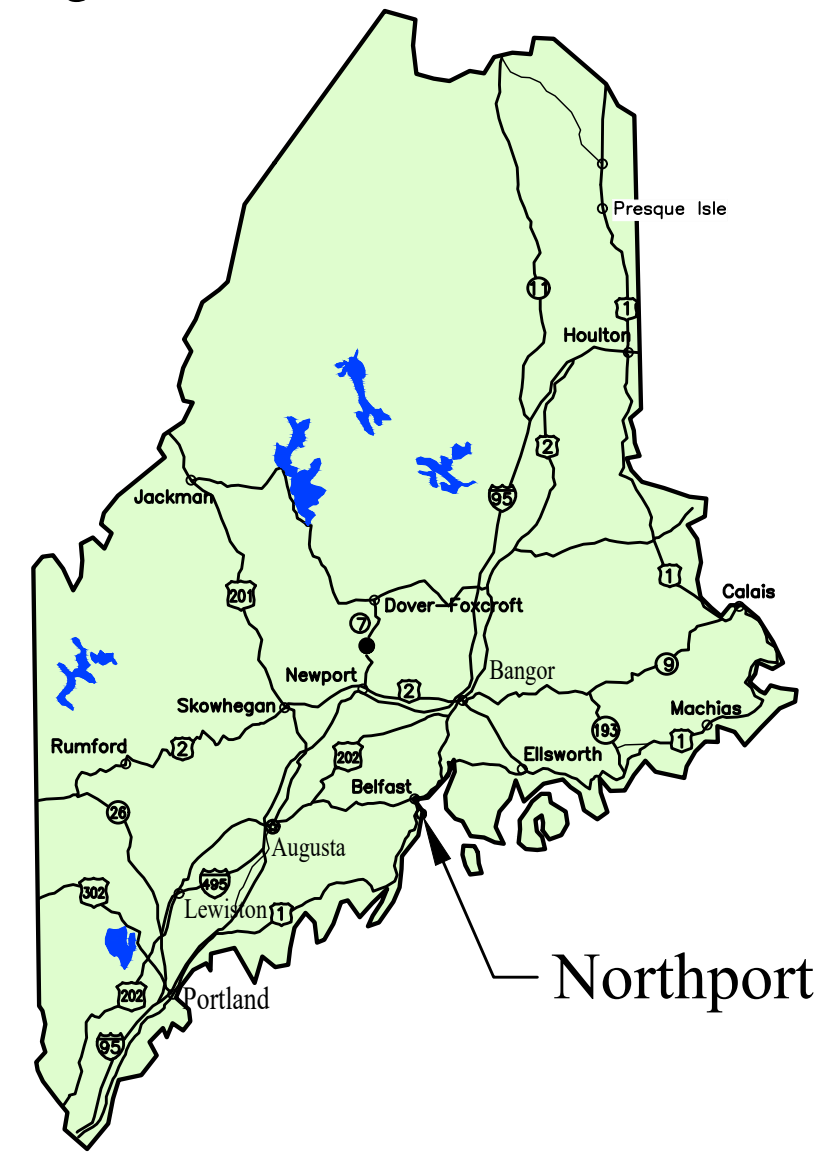
TB-008	Sheet	A3
7/13/18	Date	
NTS	Scale	

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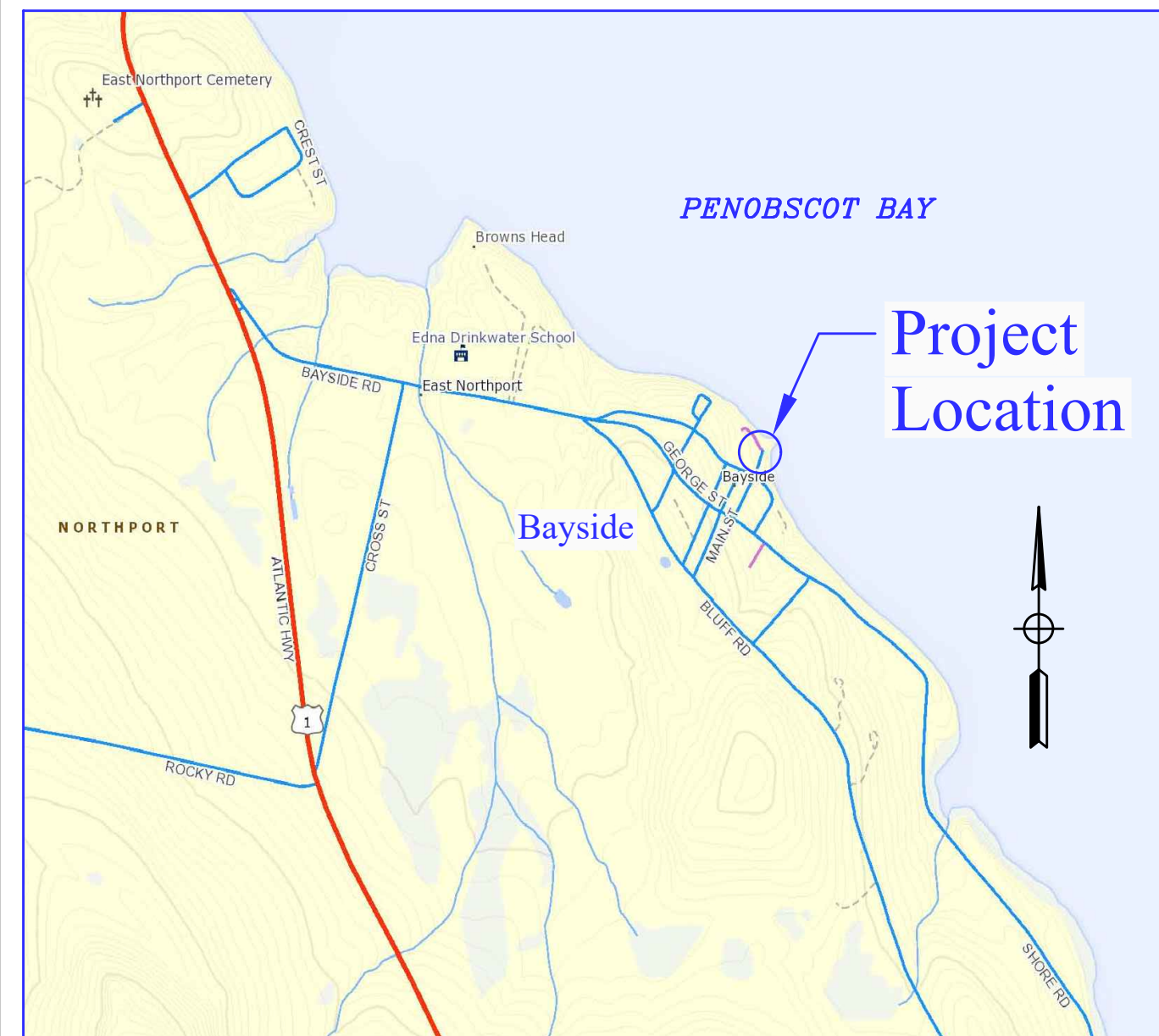
Details of Interior Flood Barriers



Project Location



Site Location



Drawing Index

- 1 C1 SITE PLANS
- 2 C2 METERING MANHOLE & SITE DETAILS
- 3 F1 FOUNDATION PLAN & DETAILS
- 4 B1 BUILDING PLAN & DETAILS
- 5 M1 PIPING & MECHANICAL PLANS & DETAILS
- 6 E1 ELECTRICAL POWER DETAILS & PLANS
- 7 E2 CONTROL PANEL SCHEMATICS

Project Drawings

for the

New Chlorination Building Project

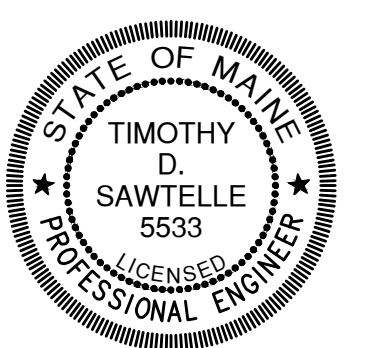
for the

Northport Village Corporation

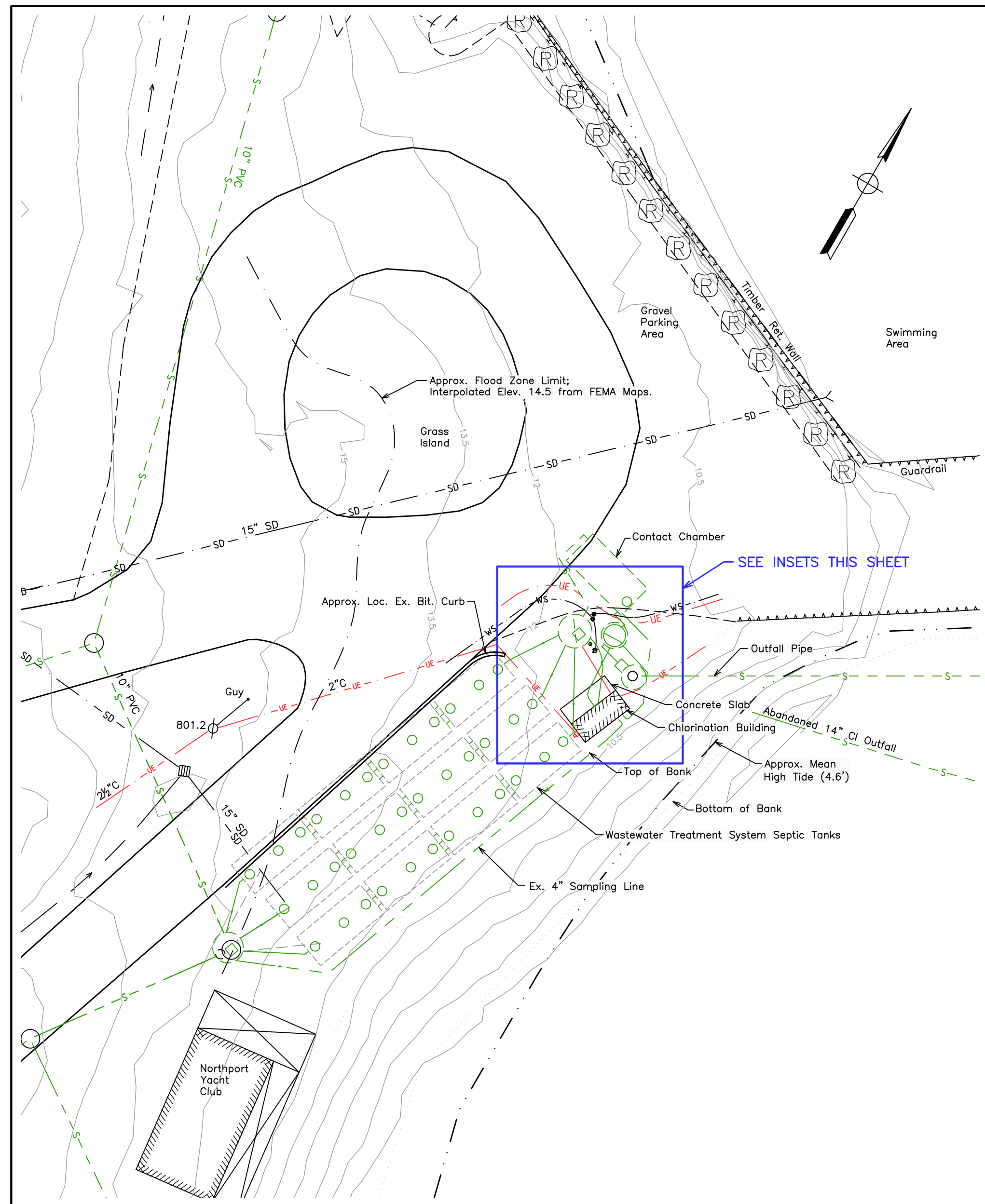
Northport, Maine

DIRIGO ENGINEERING

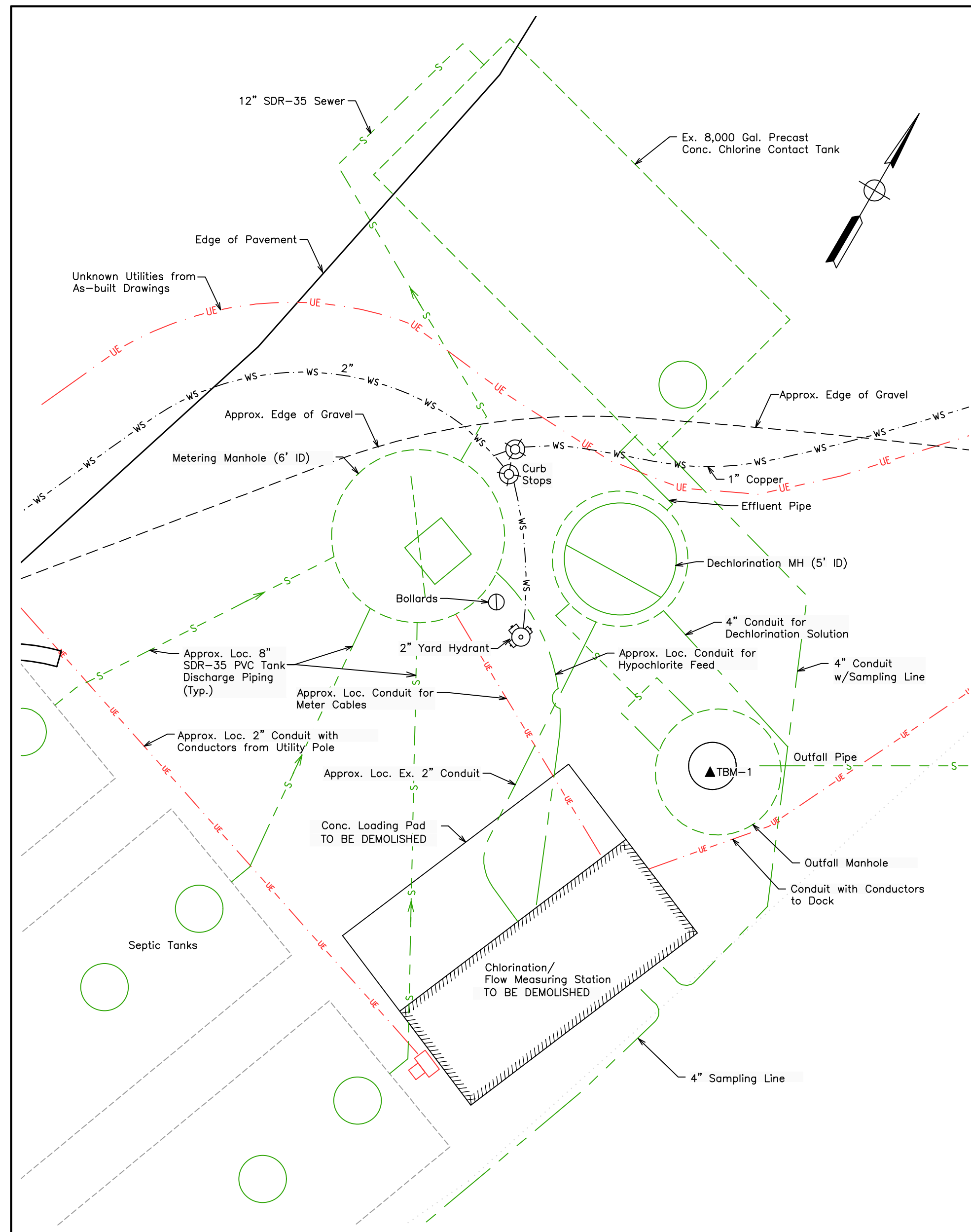
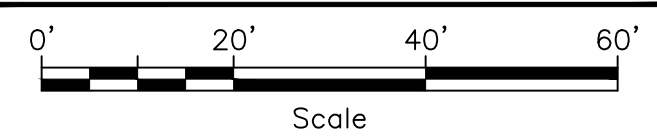
2 Dirigo Drive Fairfield, Maine 04937



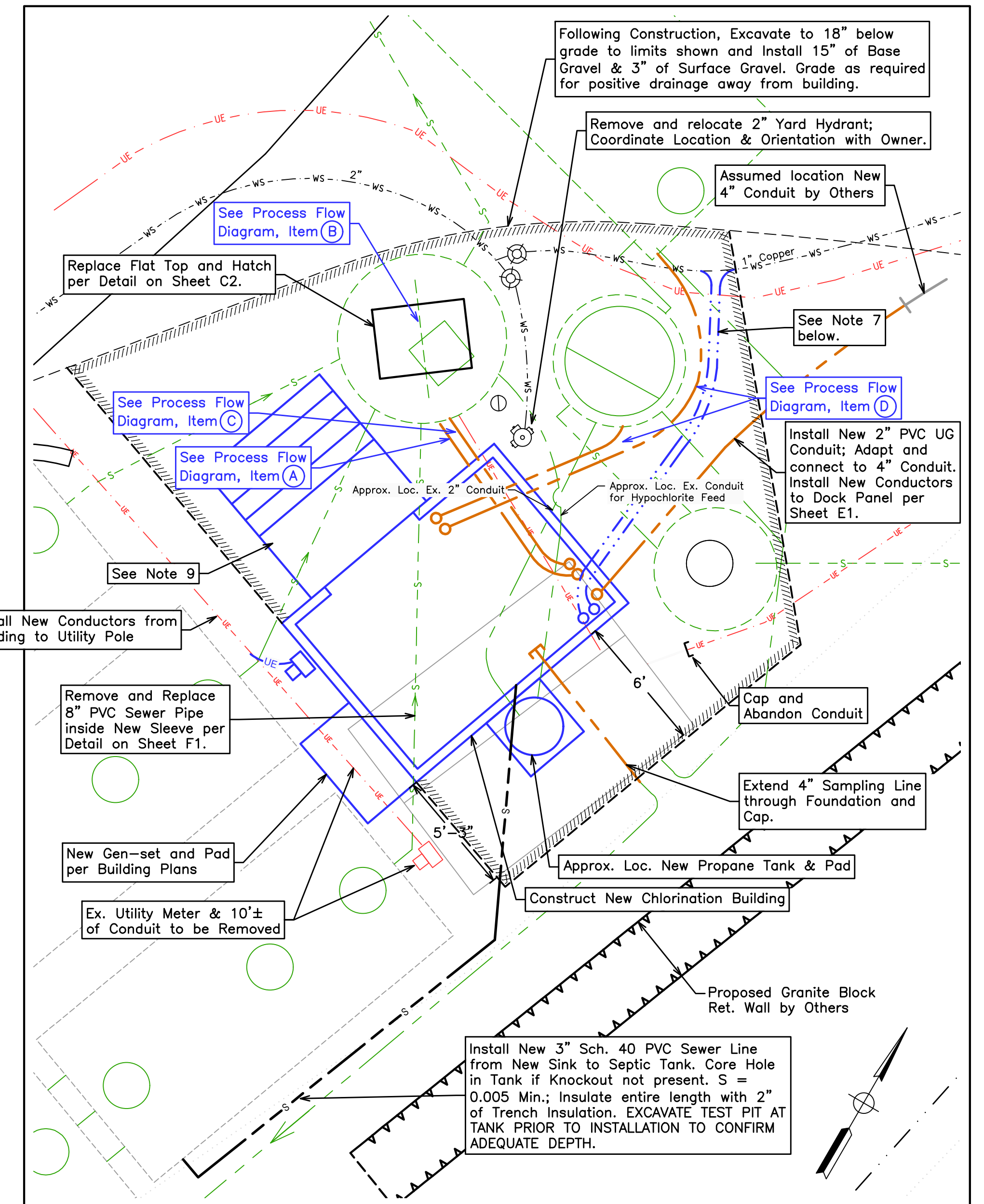
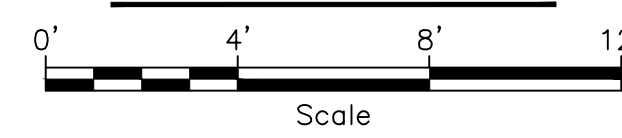
DIRIGO ENGINEERING
Project Engineer: *Timothy D. Sawtelle* Date: 4/6/20



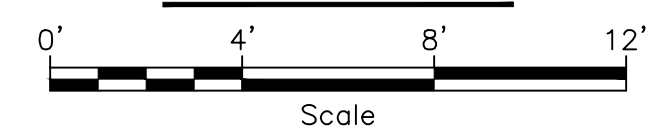
EXISTING OVERALL SITE PLAN



EXISTING SITE PLAN



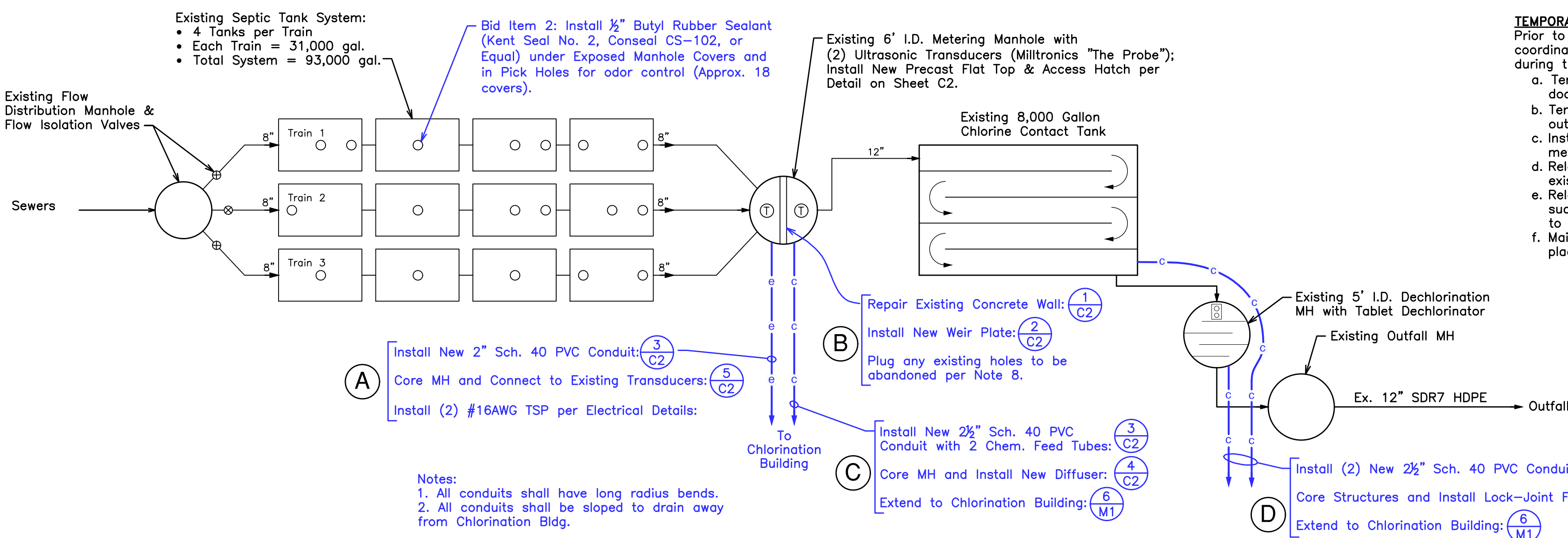
NEW SITE PLAN



▲TBM-1 Outfall MH Rim Elev. = 12.00

NOTES:

- Vertical datum NAVD88, established by Plisga & Day using GPS; tolerance = ±0.10'.
- The location of the existing utilities shown on the plans were compiled from field survey and various other sources. Locations are approximate and not guaranteed to be accurate nor is it guaranteed that all utilities are shown.
- Contours are from publicly available LIDAR and are for general reference only.
- Erosion Control Measures shall comply with *Maine Erosion and Sediment Control Practices Field Guide for Contractors* (latest edition) and shall be installed prior to any construction work.
- Remove and dispose of existing chlorination building and slab at an approved location. Coordinate with NVC, and they will remove sodium hypochlorite from storage tanks. Following existing items are to be reused in temporary and new building: Sampler, Chart Recorder, Chemical Pumps, Alarm System, and other items designated on plans or requested by NVC.
- Provide temporary facility with electrical service to house existing equipment during construction. See Temporary Building Note this sheet.
- Cut existing water service and install New 1" Copper pipes (with CPPJ fittings) to and from new building. Provide reducers/adaptors as Needed. Provide 5'-6" of Cover. Bed with 6" of sand below and 6" of sand above tubing. Insulate entire length. Confirm location with NVC.
- Plug all abandoned holes in structures with non-shrink grout. After curing, seal exterior with manhole waterproofing.
- Contractor to provide temporary construction steps (min. 3' top landing) and leave on site following construction. Permanent exterior steps to be installed by Others.



PROCESS FLOW DIAGRAM

TEMPORARY BUILDING NOTE:
 Prior to demolition of the existing treatment building, Contractor shall coordinate with NVC and set up a temporary facility to provide chlorination during the construction period. Contractor shall provide the following:

- Temporary 6'x8'x7'H (or larger) wood-framed building with lockable door. Locate on top of septic tanks.
- Temporary electrical service (60A panel) to building with (3) duplex outlets and interior light with switch.
- Install existing chemical pump and day tank. Run discharge tubing to metering manhole.
- Relocate chart recorder to temporary building and interconnect to existing transducers with twisted shielded pair.
- Relocate sampler to temporary building and interconnect sampler suction lines, one to discharge end of chlorine contact tank and one to dechlorination manhole.
- Maintain temporary system in service. Remove when new facility is placed in service.

Existing Septic Tank System:
 • 4 Tanks per Train
 • Each Train = 31,000 gal.
 • Total System = 93,000 gal.

Bid Item 2: Install 1/2" Butyl Rubber Sealant (Kent Seal No. 2, Consel CS-102, or Equal) under Exposed Manhole Covers and in Pick Holes for odor control (Approx. 18 covers).

Notes:
 1. All conduits shall have long radius bends.
 2. All conduits shall be sloped to drain away from Chlorination Bldg.

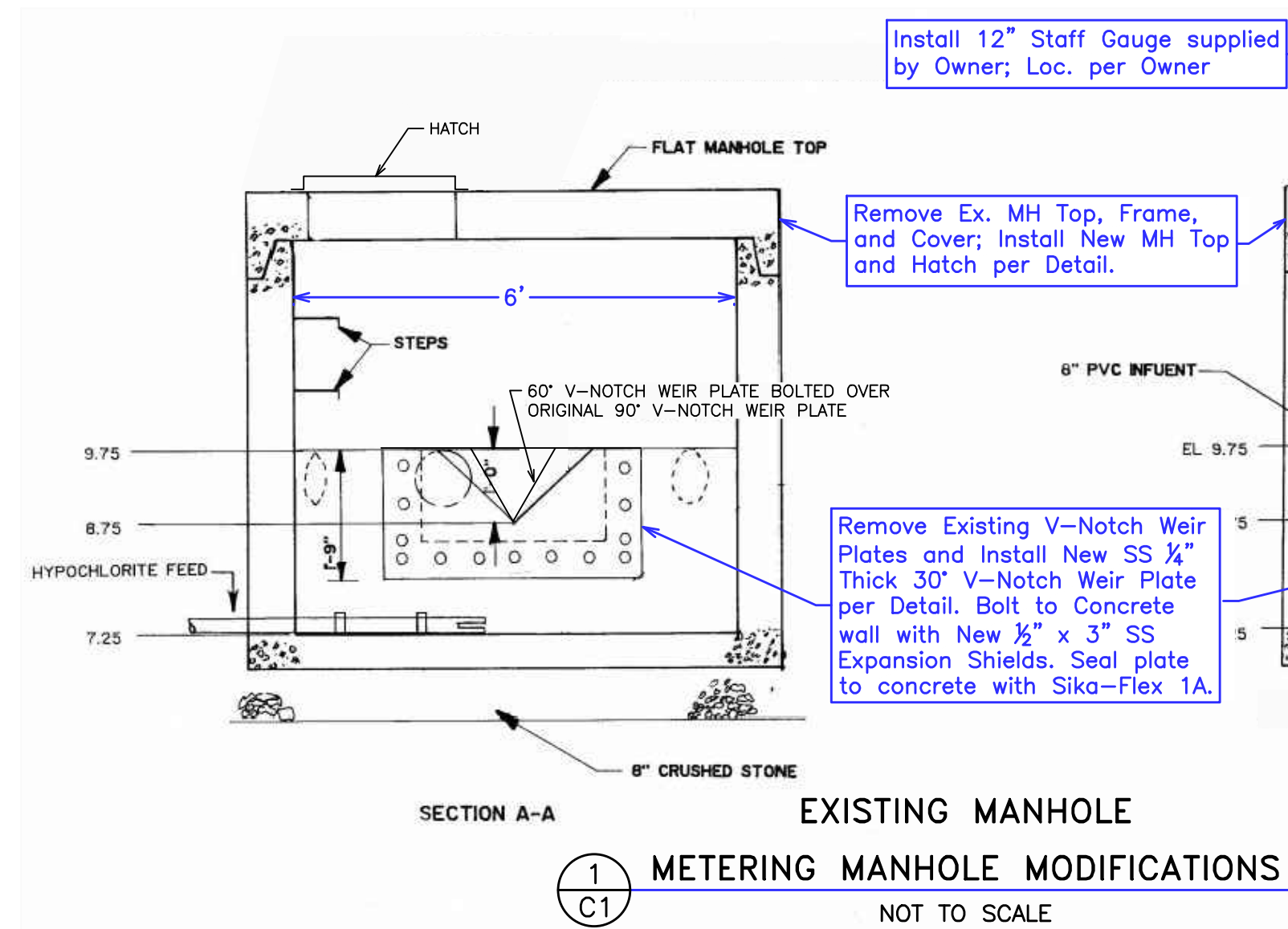
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			DATE:	4/6/20
			DRAWN BY:	RJB
			CHECKED BY:	RJB
			APPROVED BY:	[Signature]
			FIELD BK:	59
			FILE:	01 DECHLOR BLDG
			PROJECT:	#25030

NEW CHLORINATION BUILDING PROJECT

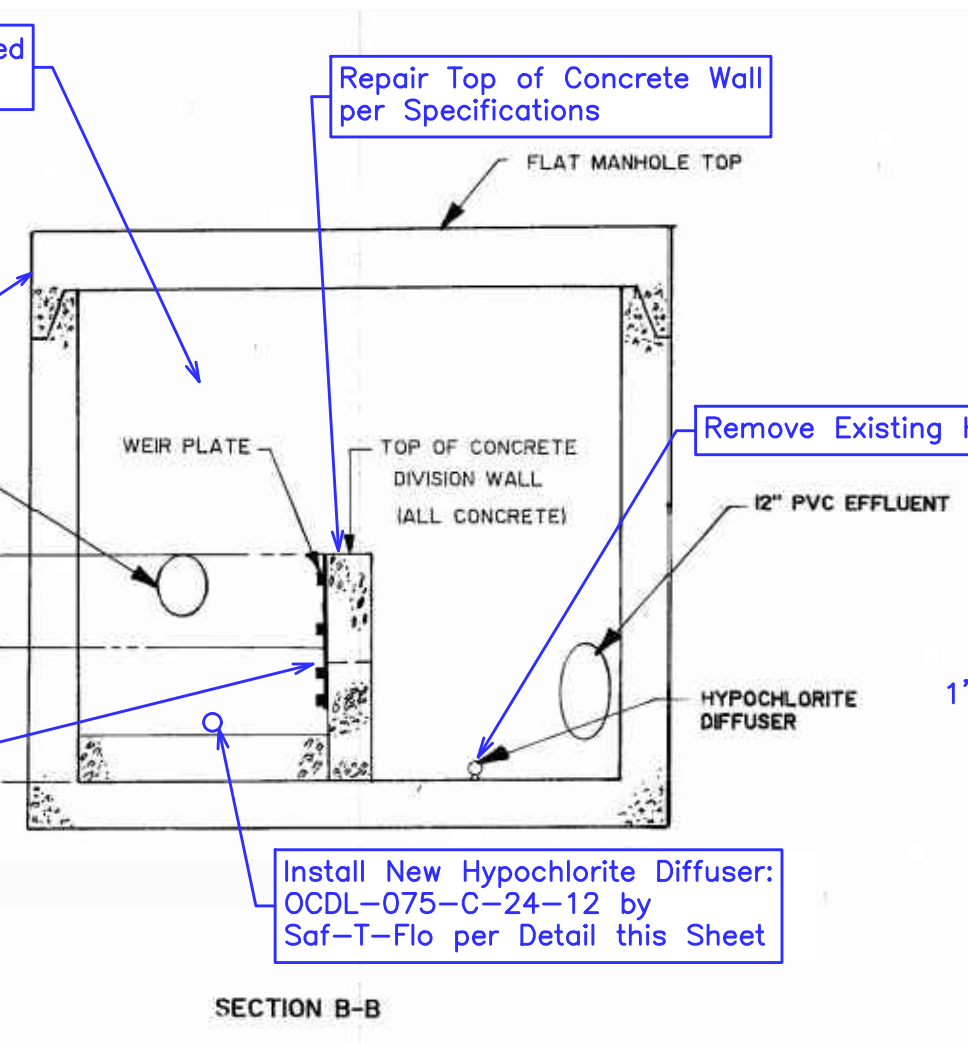
SITE PLANS

DIRIGO ENGINEERING
 2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

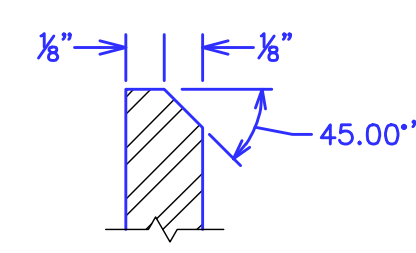
Note: On the Original Full-Scale Drawing, this dimension is 6"



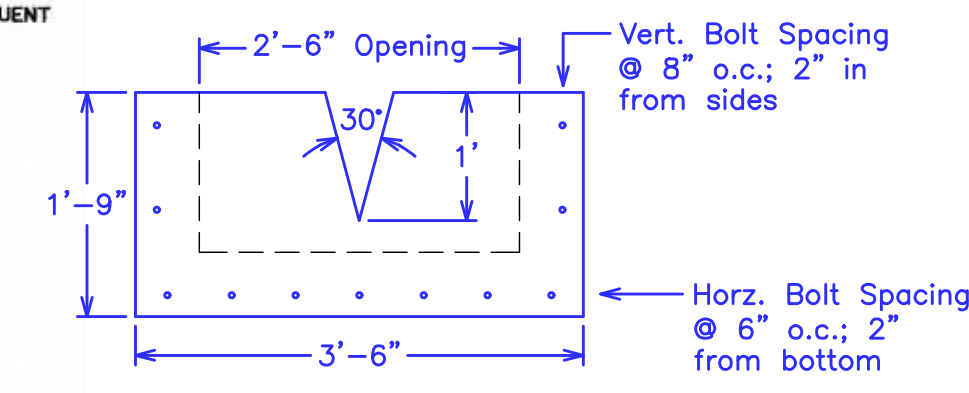
1
C1 METERING MANHOLE MODIFICATIONS
NOT TO SCALE



2
C1 NEW WEIR CREST SECTION
NOT TO SCALE

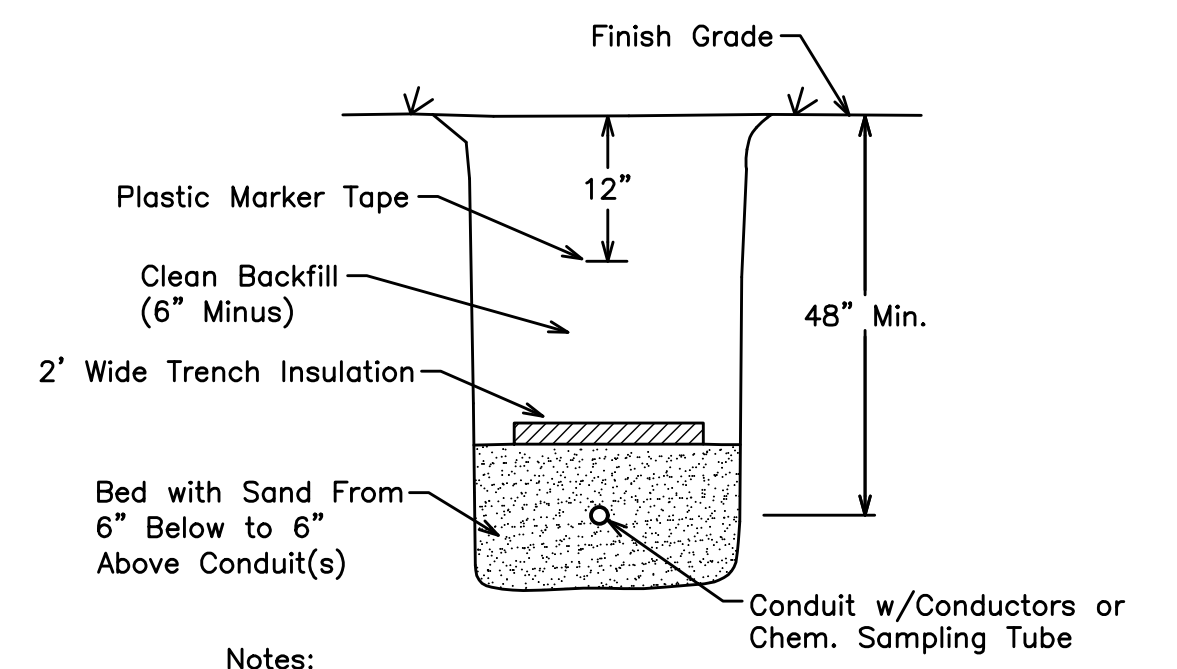


NEW WEIR CREST SECTION



2
C1 NEW WEIR PLATE DETAIL
NOT TO SCALE

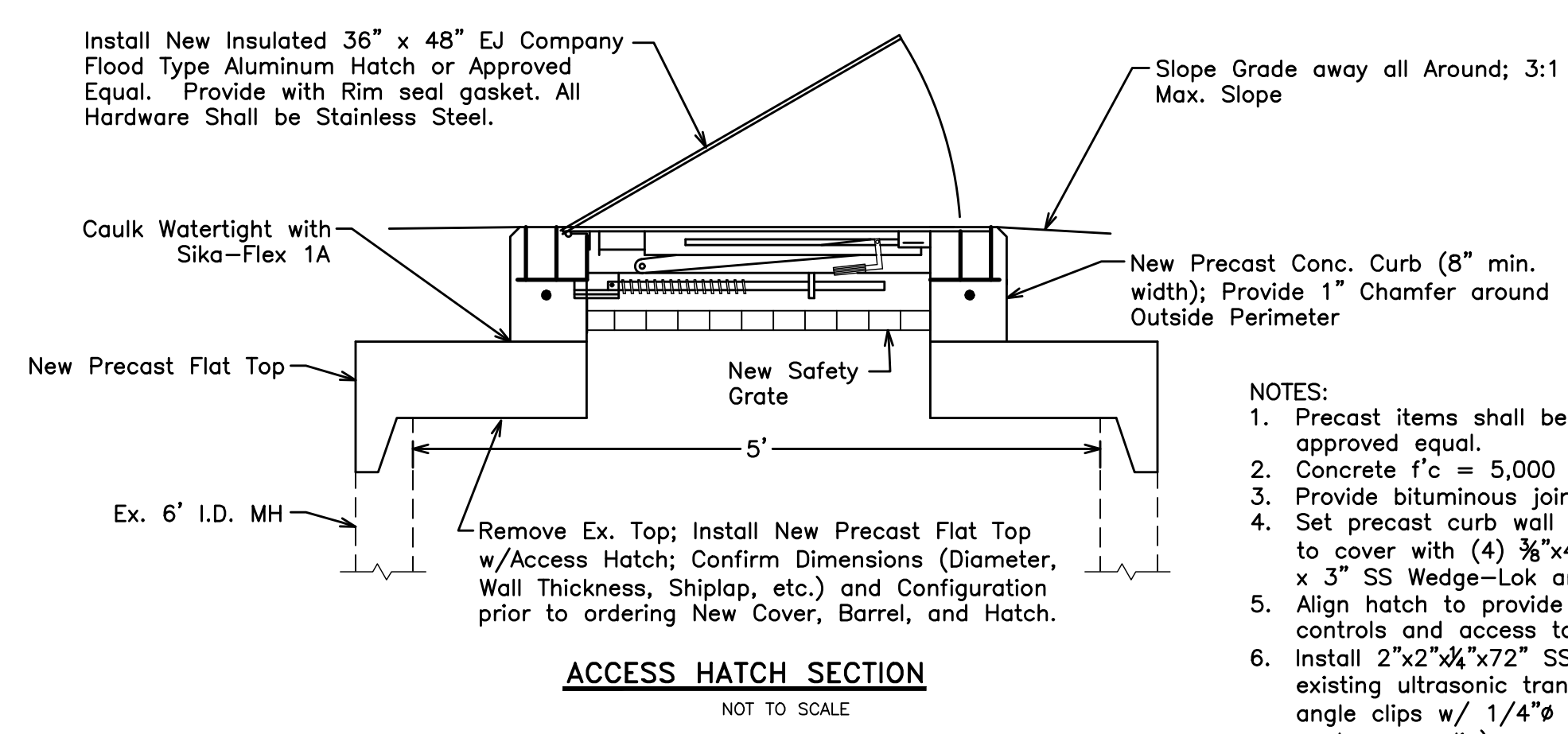
Note:
Weir capacity at 1
ft. = 0.4369 MGD



3
C1 ELECTRICAL & TUBING CONDUIT TRENCH DETAIL
NOT TO SCALE

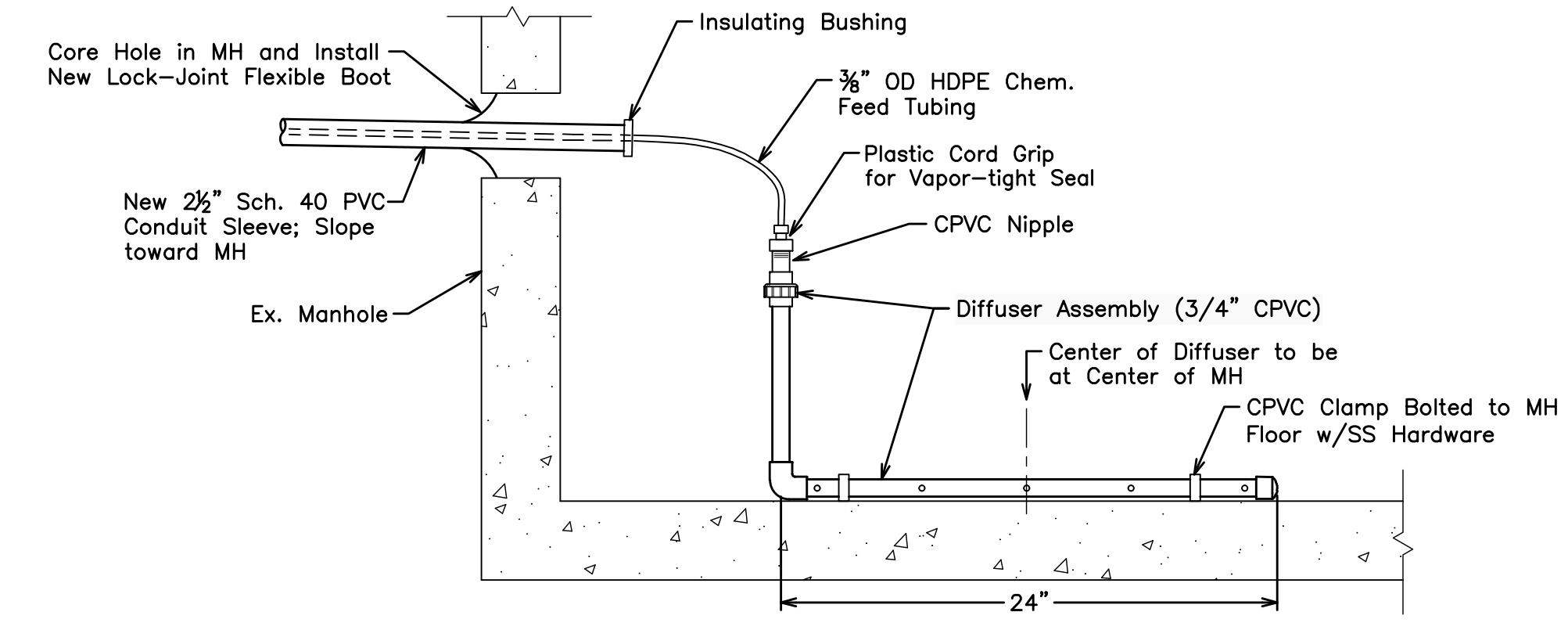
Notes:
1. Detail is from 1988 as-bid plans. Field verify all dimensions prior to ordering.
2. Elevations shown are on different datum than Dirigo Engineering plans.

H36482601

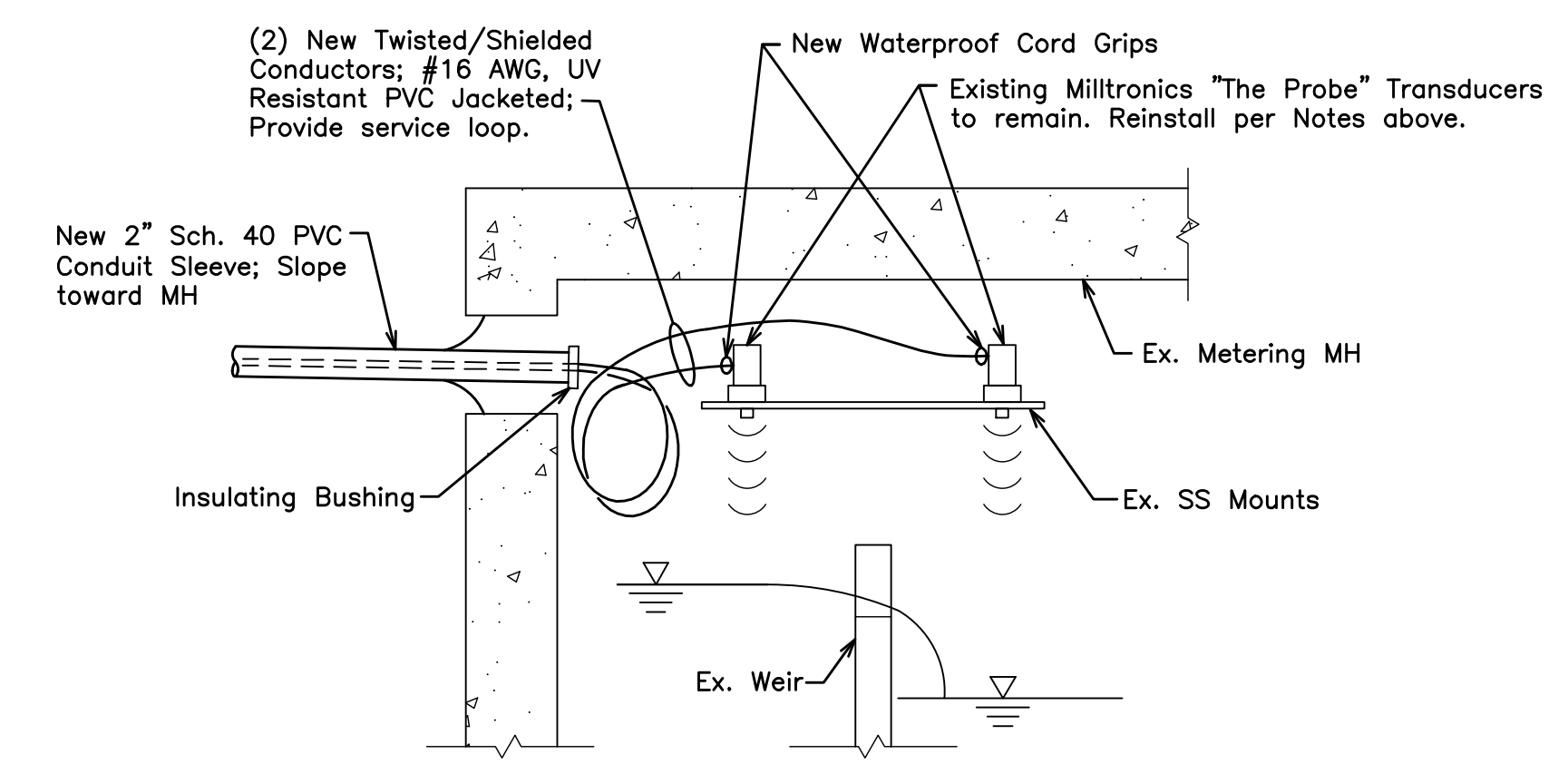


ACCESS HATCH SECTION
NOT TO SCALE

NOTES:
1. Precast items shall be by American Concrete Industries or approved equal.
2. Concrete f'c = 5,000 psi. Reinforce for H-20 loading.
3. Provide bituminous joint seals between sections.
4. Set precast curb wall on bituminous joint seal and secure to cover with (4) 3/8\"/>



4
C1 NEW DIFFUSER DETAIL
NOT TO SCALE

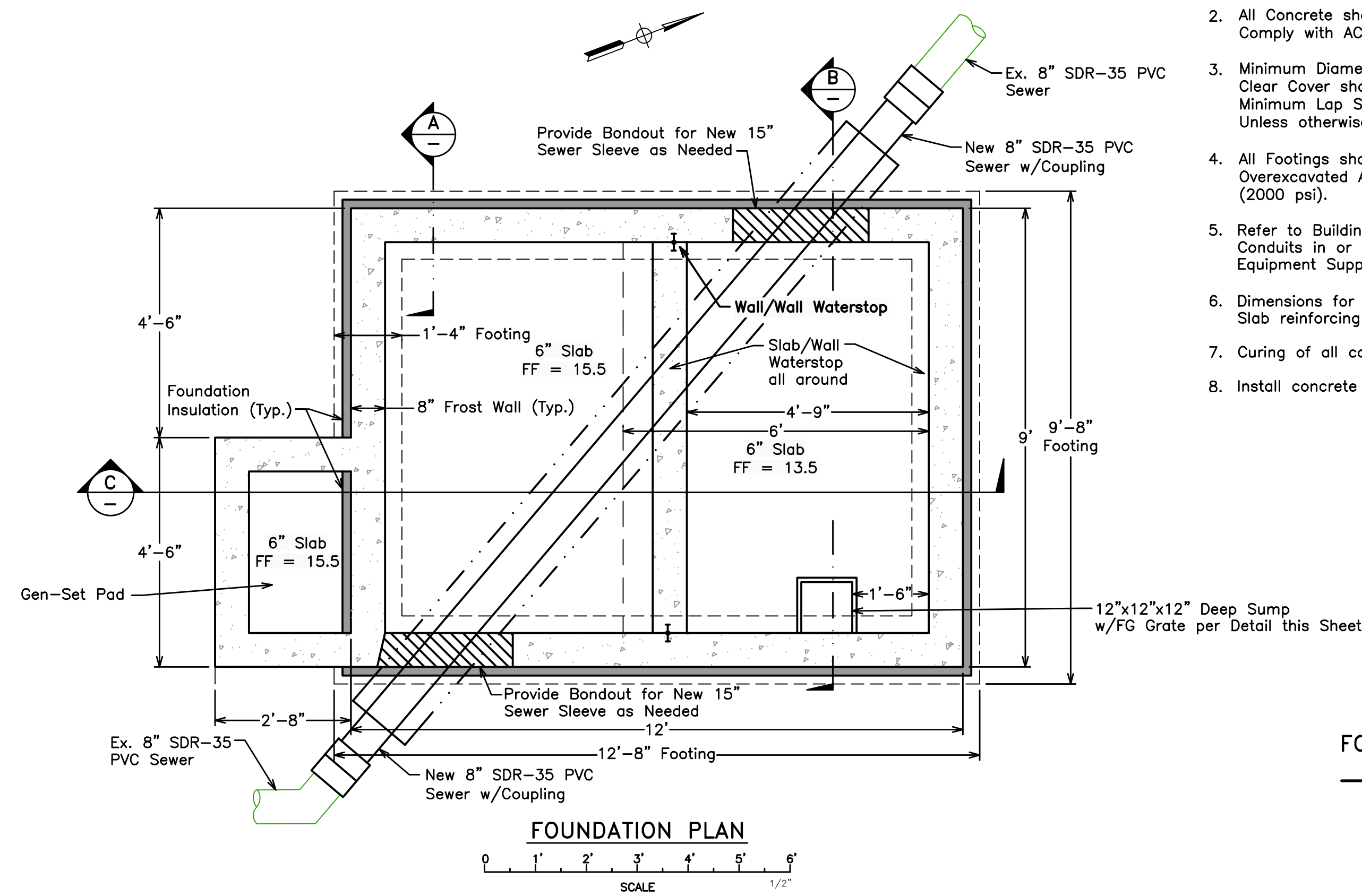


5
C1 TRANSDUCER DETAIL
NOT TO SCALE

Note: On the Original Full-Scale Drawing, this dimension is 6"

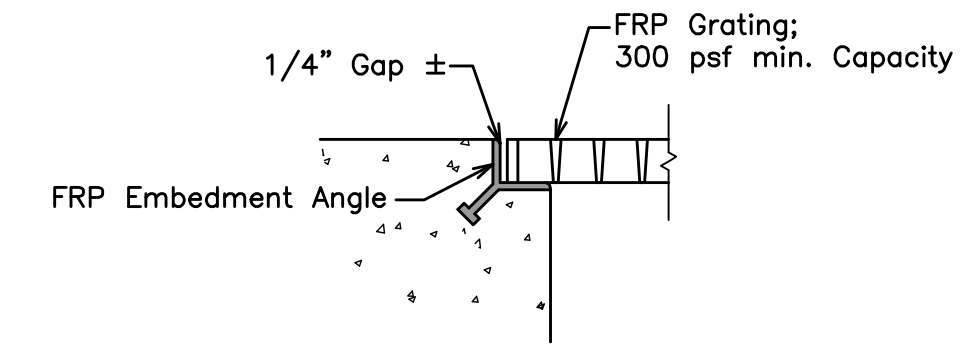
		NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE	
NO.		REVISIONS	DATE
BID SET	VERT. DATUM	AS NOTED	
	DATE:	4/6/20	
	DRAWN BY:	RJB	
	CHECKED:	RJB	
	APPROVED:	[Signature]	
	FIELD BK:	59	
FILE:	01 DECHLOR BLDG		
PROJECT:	#25030		
			SHEET 2 of 7
			C2

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

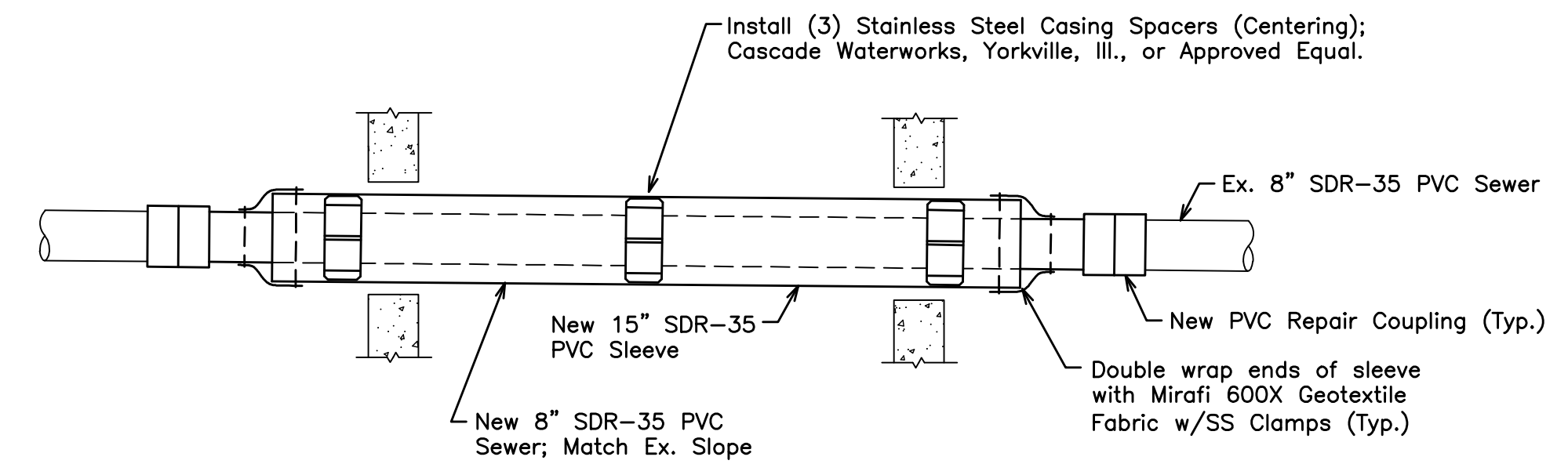


CONCRETE NOTES:

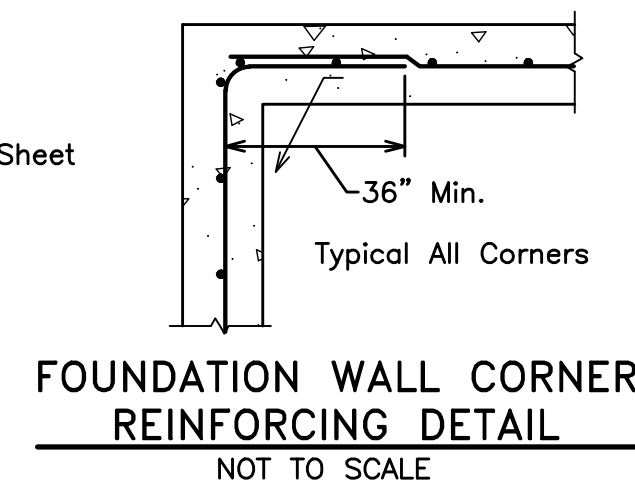
1. Concrete: $f'c = 4,000$ psi
Air = $5\% \pm 1\%$ $F_y = 60,000$ psi
Max. Agg. = $3/4"$
2. All Concrete shall comply with ASTM C94. All Concrete Work Shall Comply with ACI 318.
3. Minimum Diameter for Reinforcing Bends = 6 Bar Diameters. Clear Cover shall be 2" unless otherwise noted. Minimum Lap Splice = 24" for #4 Bars. Unless otherwise noted, all Horizontal Wall Steel is Continuous.
4. All Footings shall rest on Undisturbed Compacted Soil. Any Overexcavated Areas shall be Brought to grade with Concrete Fill (2000 psi).
5. Refer to Building Plans & Electrical Plans for Locations of Pipes and Conduits in or below building Slab or Walls. Coordinate Locations with Equipment Suppliers and with Piping, Mechanical, and Electrical Contractors.
6. Dimensions for bondouts are nominal. Provide opening per door mfr. Slab reinforcing bars shall extend into bondouts.
7. Curing of all concrete shall be in compliance with Section 03220.05.
8. Install concrete pad for propane tank per detail this sheet.



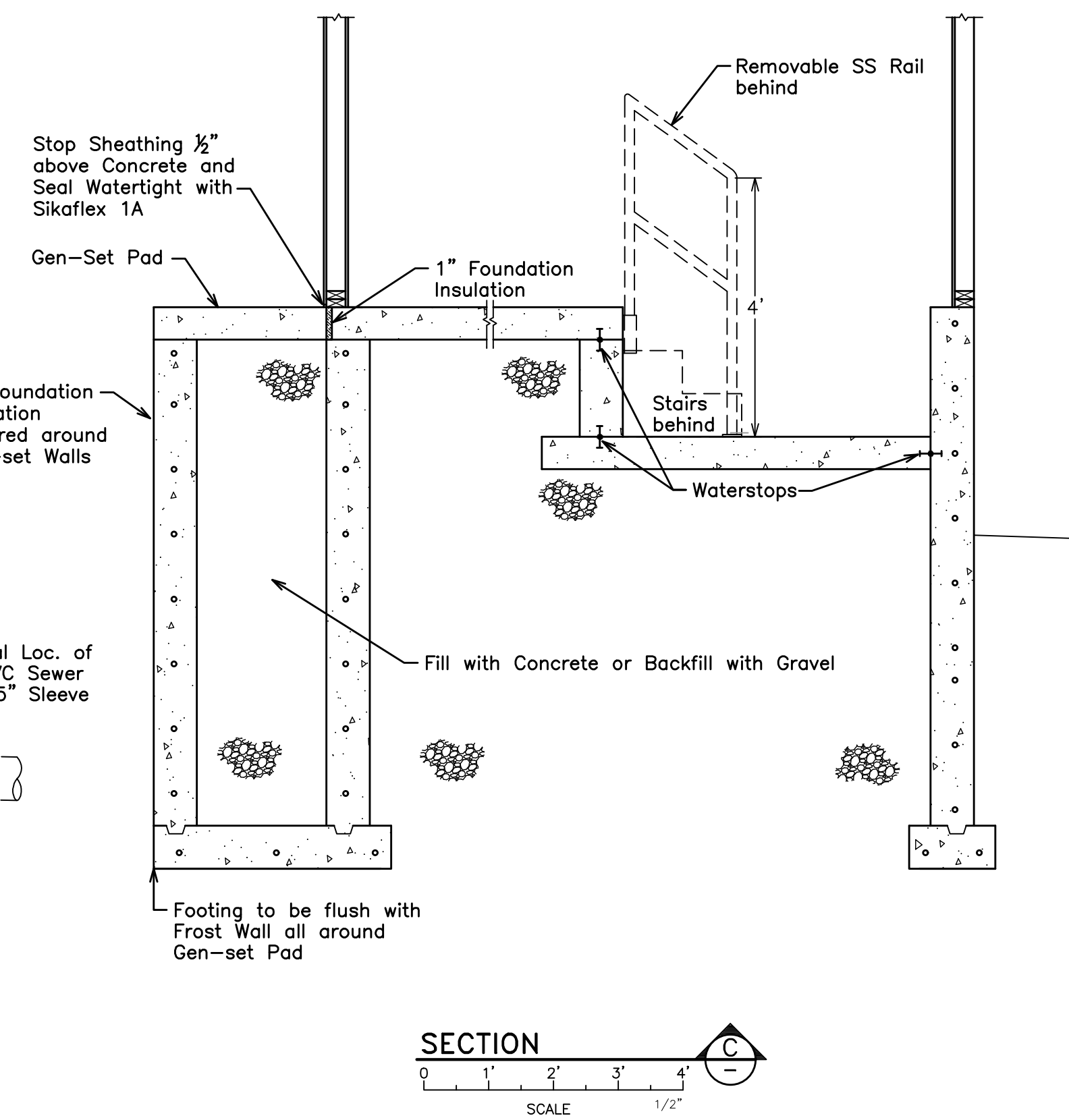
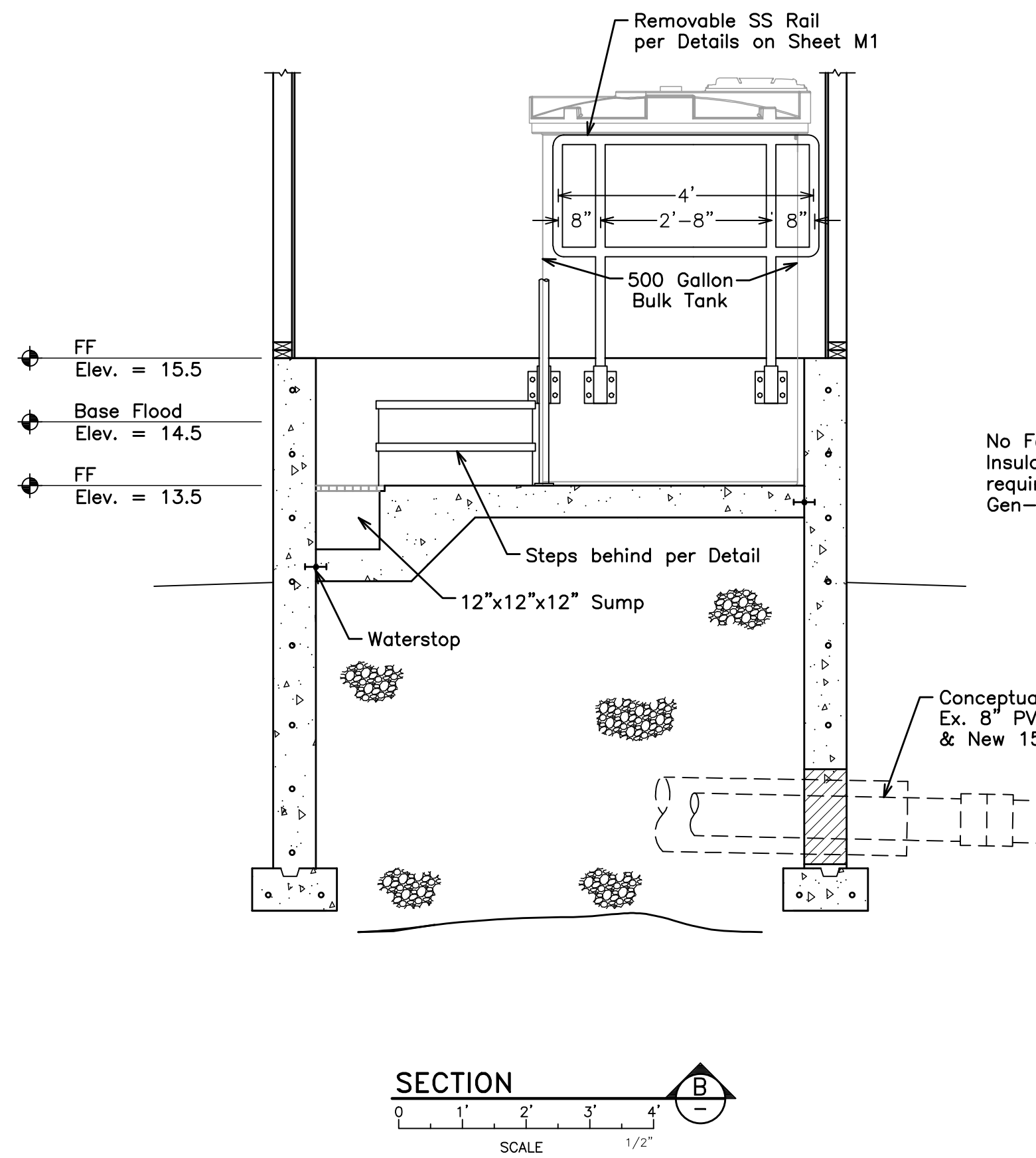
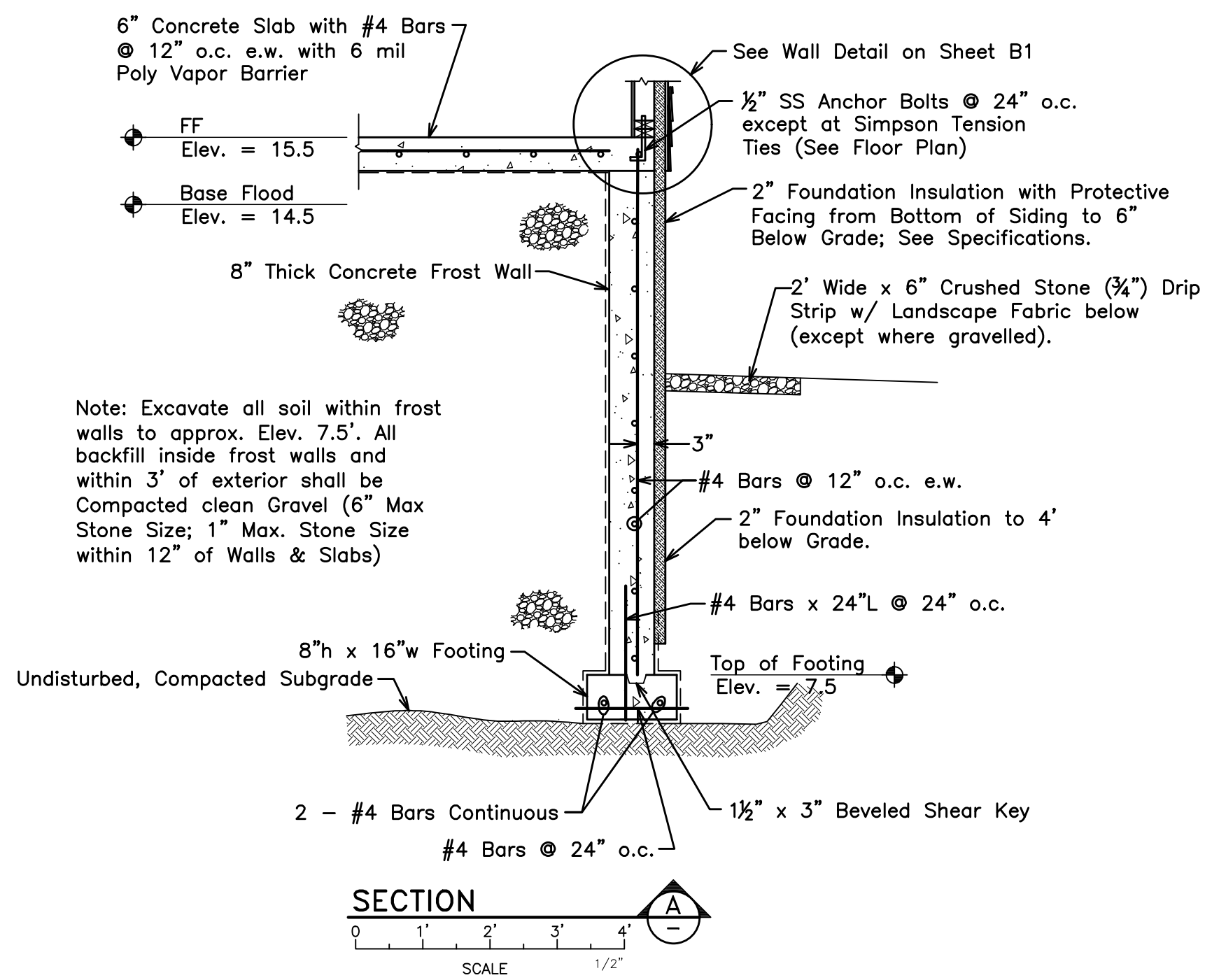
GRATING SUPPORT DETAILS
NOT TO SCALE



SEWER SLEEVE DETAIL
NOT TO SCALE



FOUNDATION WALL CORNER REINFORCING DETAIL
NOT TO SCALE

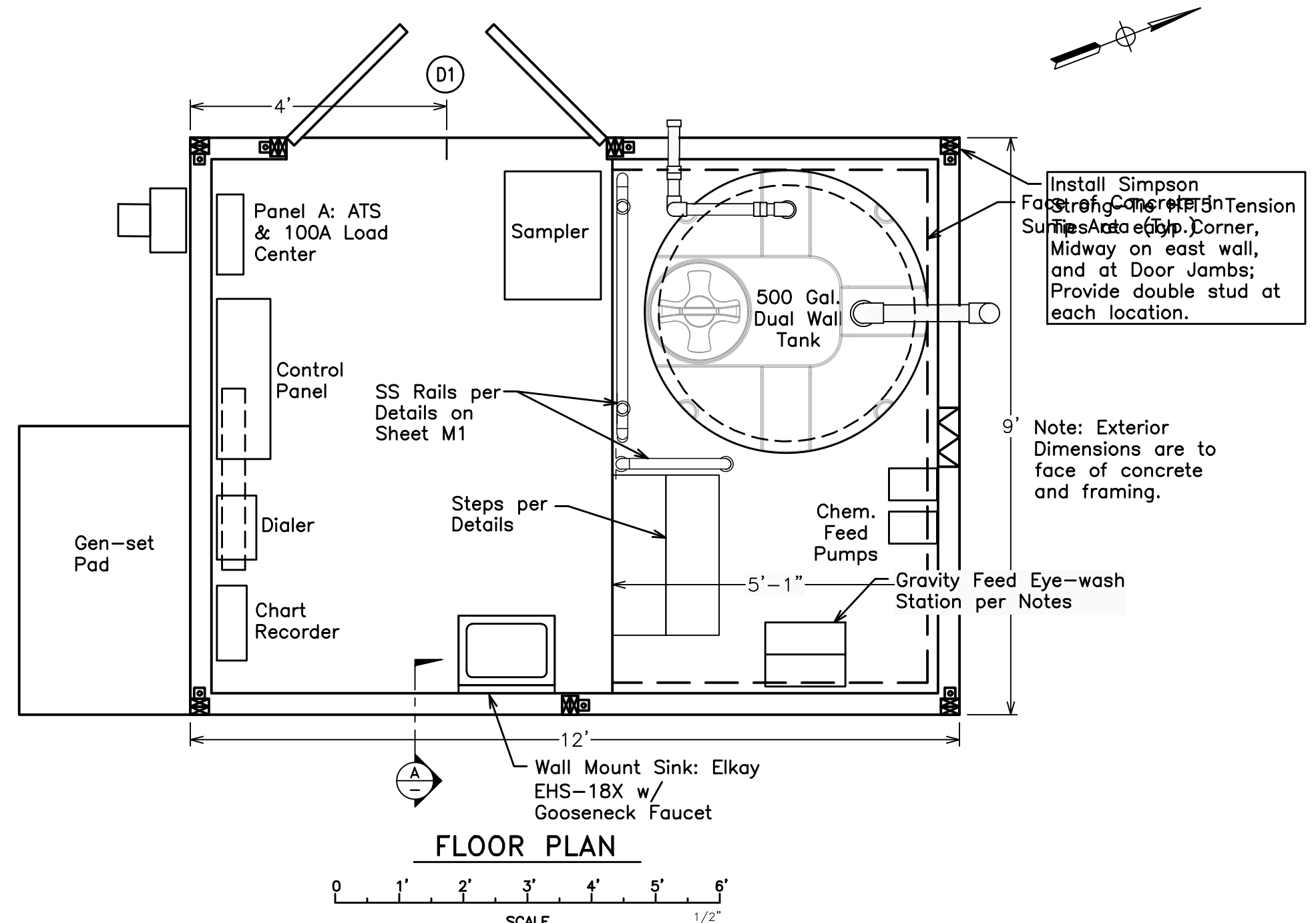


		NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE	
		NEW CHLORINATION BUILDING PROJECT	
		FOUNDATION PLAN & DETAILS	
BID SET	NO.	REVISIONS	DATE
		VERT. DATUM	AS NOTED
		DATE:	4/6/20
		DRAWN BY:	RUB
		CHECKED BY:	RJS
		APPROVED BY:	TS
	FIELD BK:	59	
	FILE:	01 DECHLOR BLDG	
	PROJECT:	#25030	

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401

SHEET
3 OF 7
F1

← Note: On the Original Full-Scale Drawing, this dimension is 6" →



FLOOR PLAN

ROOM FINISH SCHEDULE

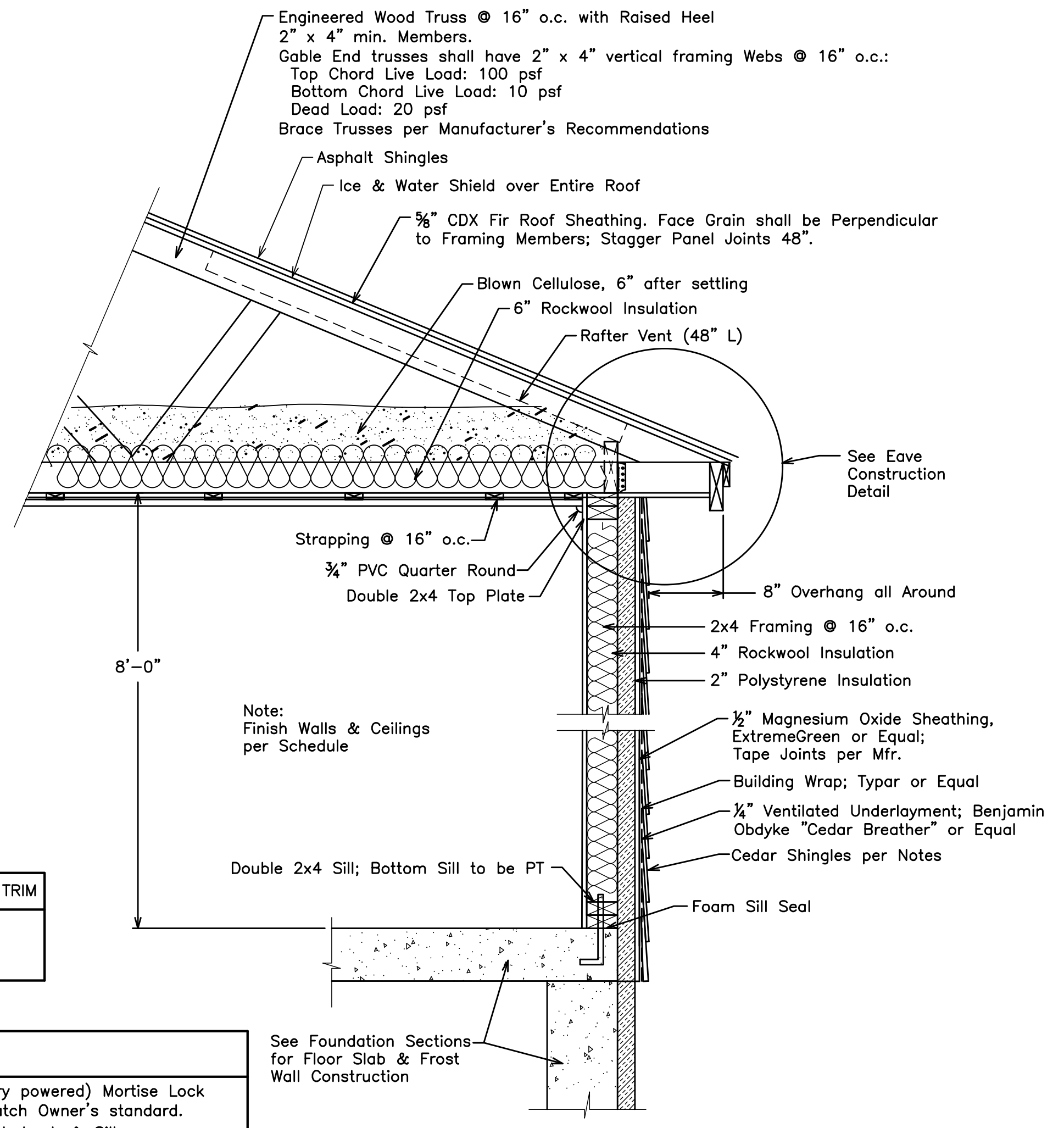
ROOM	FLOOR	WALLS & CEILING	DOOR/WINDOW CASING	BASE MOLDING	JOINT & CORNER TRIM
Entire Building	Concrete with Sealer	1/2" Magnesium Oxide (MgO) Board; Paint per Division 9	Doors shall have Wrap-around Steel Frames Appropriate for Wall Thickness	N/A	Tape & Joint Compound

DOOR SCHEDULE

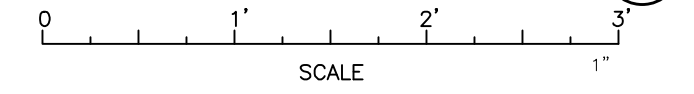
ITEM	NO.	SIZE	MODEL	CONSTRUCTION	NOTES	WEATHER-STRIPPING	THRESHOLD	LOCKSET
D1	1	5'-0" x 6'-8" Double Door	Steelcraft CE16-E6 6-Panel Embossed	1 3/4" Thick; 16 Ga. Galv. Steel	CSO	YES	YES-ADA; 8" Wide	Sargent KP8200 Keypad Operated (battery powered) Mortise Lock (with Lever Handles), Key override to match Owner's standard. 2nd Door shall have Sliding Lock Rods at Jamb & Sill

DOOR NOTES LEGEND:
CSO Closer w/Stay-Open Feature

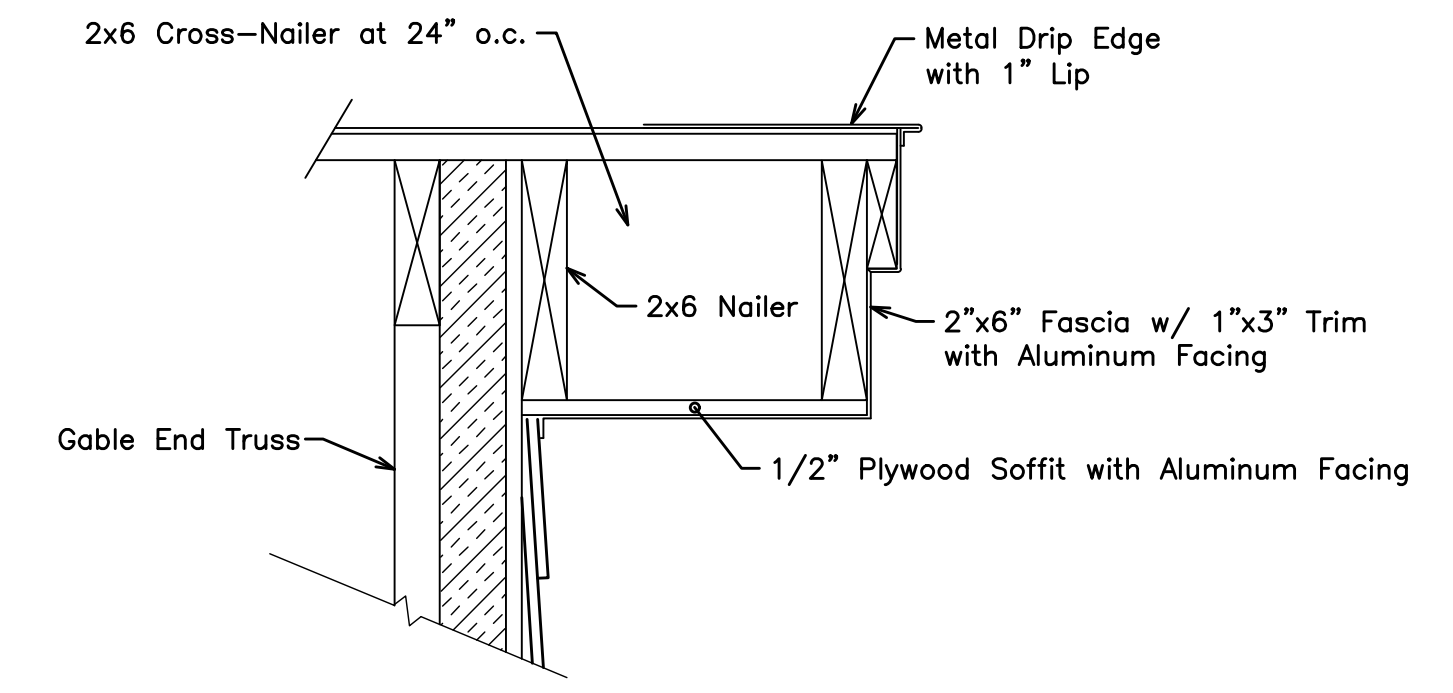
DOOR NOTES:
1. Doors shall have wrap-around steel frame appropriate for wall thickness.
2. Provide heavy duty latch guard for exterior door.
3. All hardware shall be stainless steel.



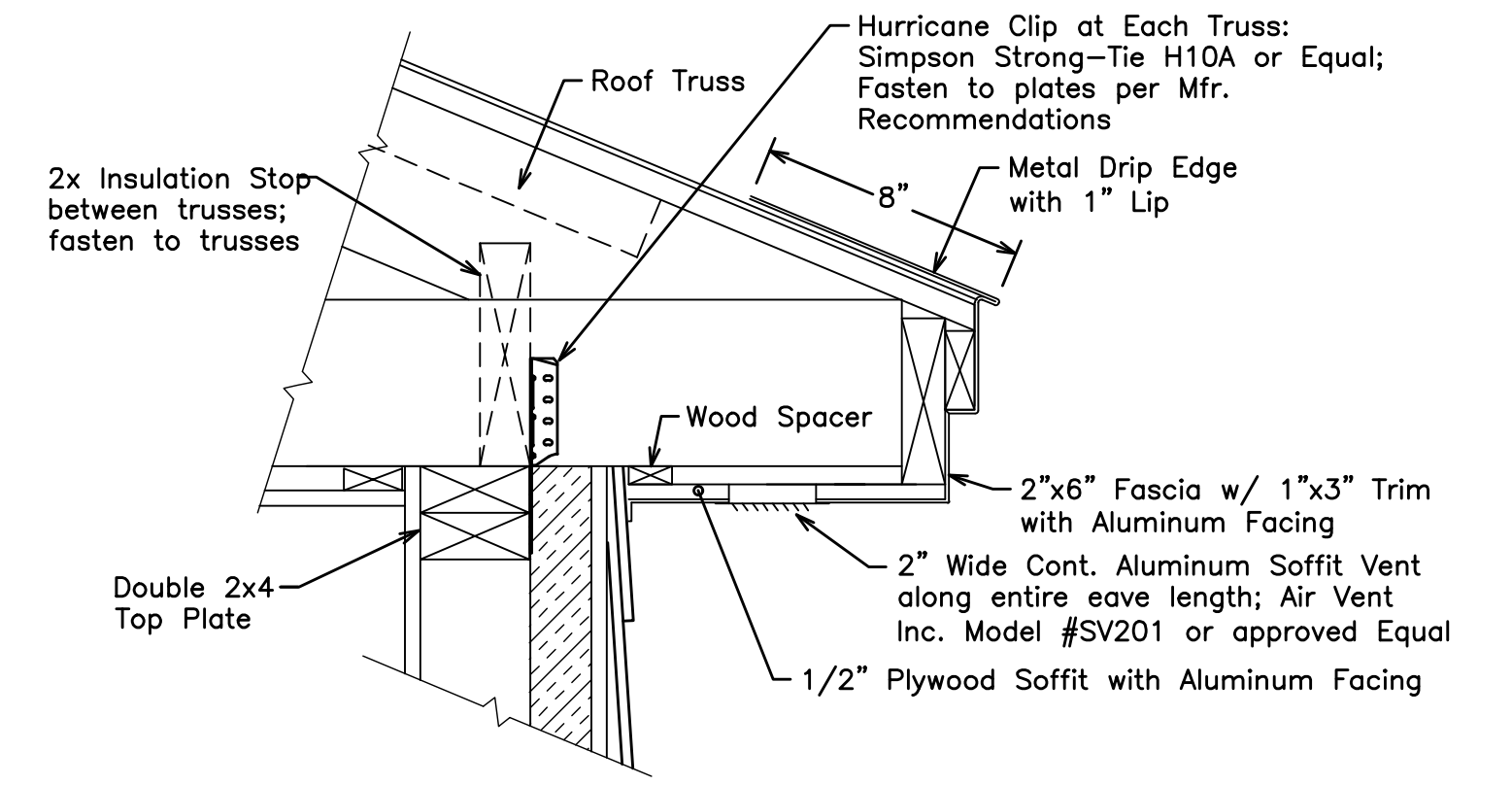
TYPICAL WALL SECTION



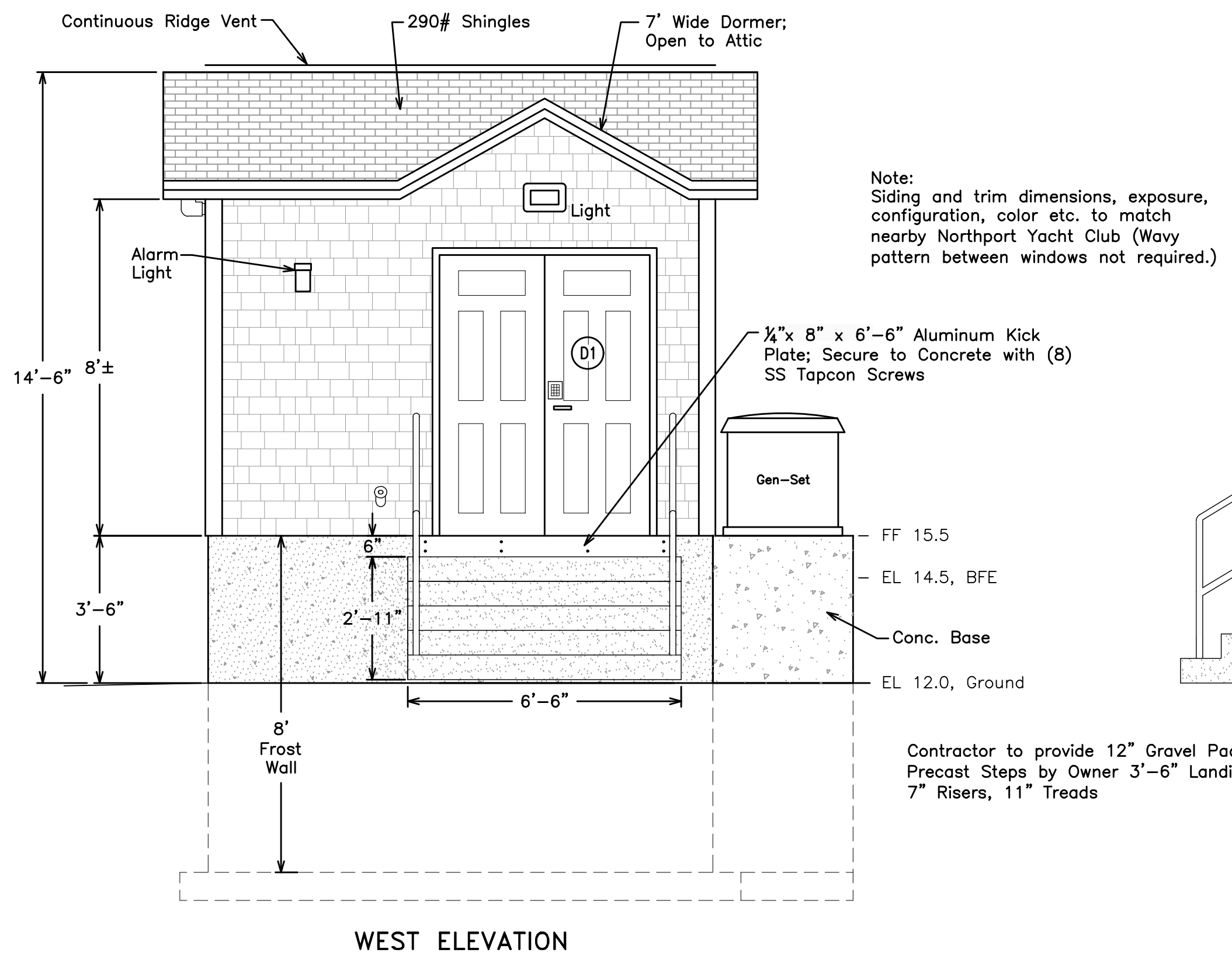
- CARPENTRY NOTES:**
- All Lumber Shall be KD Spruce, Dressed 4 Sides
 - Cedar Shingles shall be Factory Finished Eastern White Cedar Shingles by Michigan Prestain; 5" Exposure. Ultra-White Solid; After installation, add 1 Coat of Cabot 0101 White Semi-solid Stain per Mfr. Recommendations.
 - Interior Trim Shall be per Room Finishing Schedule.
 - Aluminum facing shall be 0.019" min. thickness with 2 coats of acrylic paint.
 - Use appropriate mounting blocks and trim accessories for all siding penetrations.
 - All fasteners to be stainless steel.



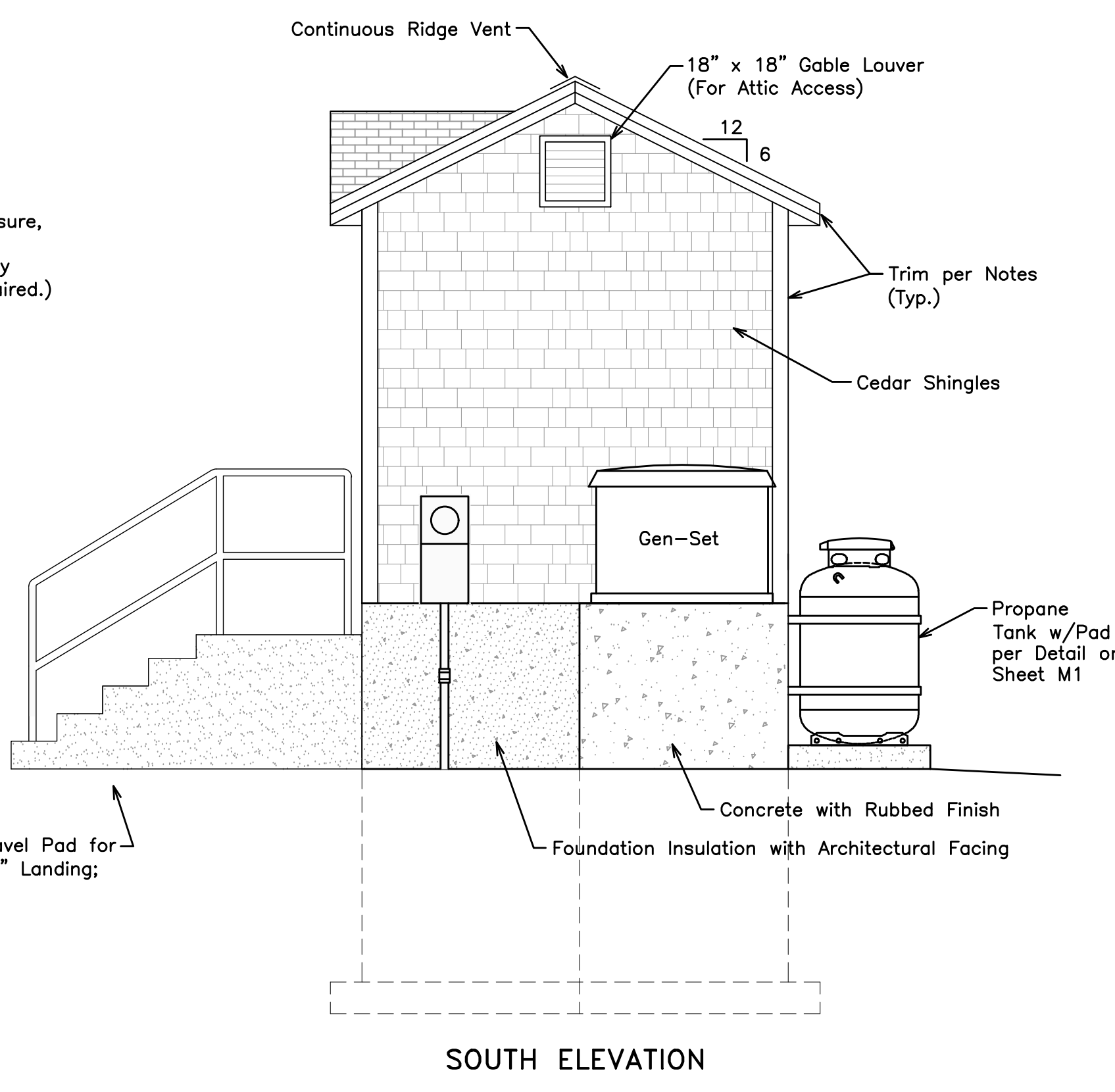
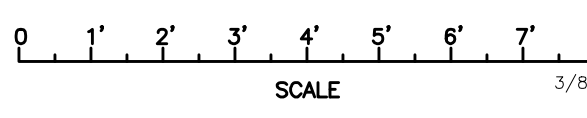
TYPICAL RAKE DETAIL
NOT TO SCALE



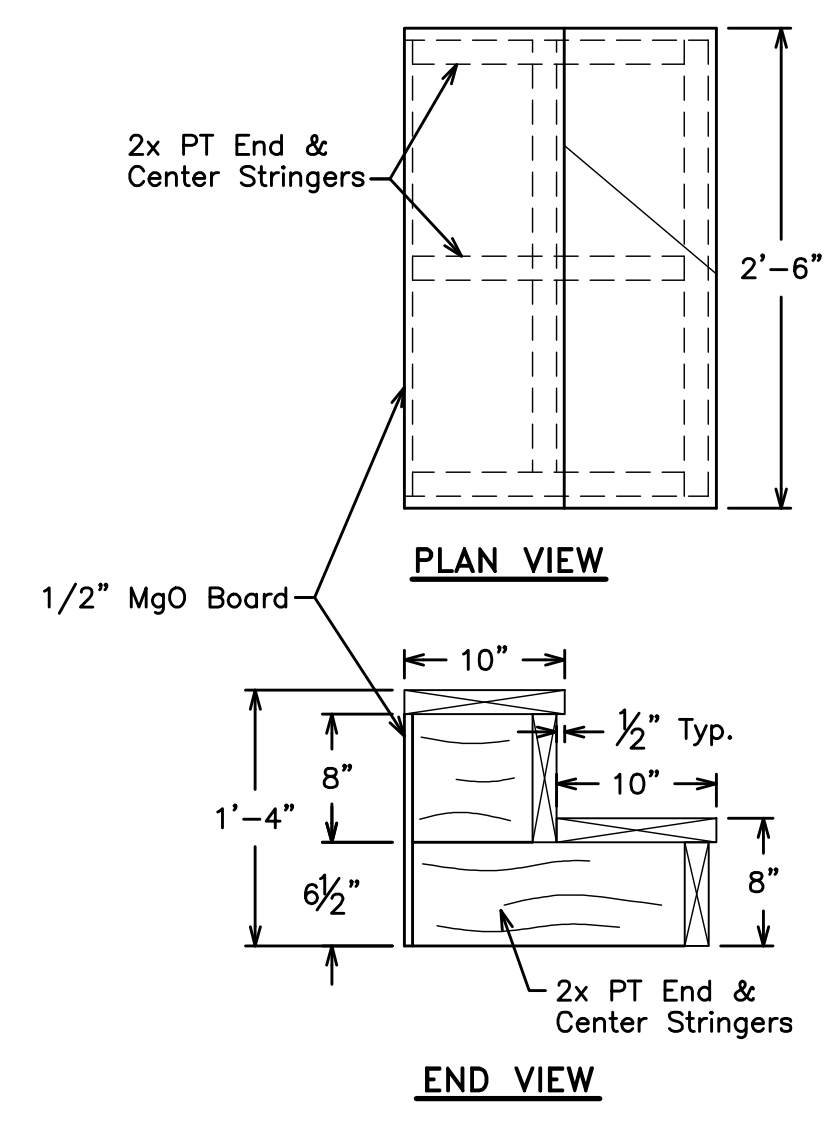
EAVE CONSTRUCTION DETAIL
NOT TO SCALE



WEST ELEVATION

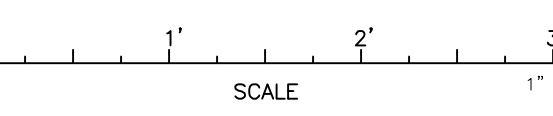


SOUTH ELEVATION



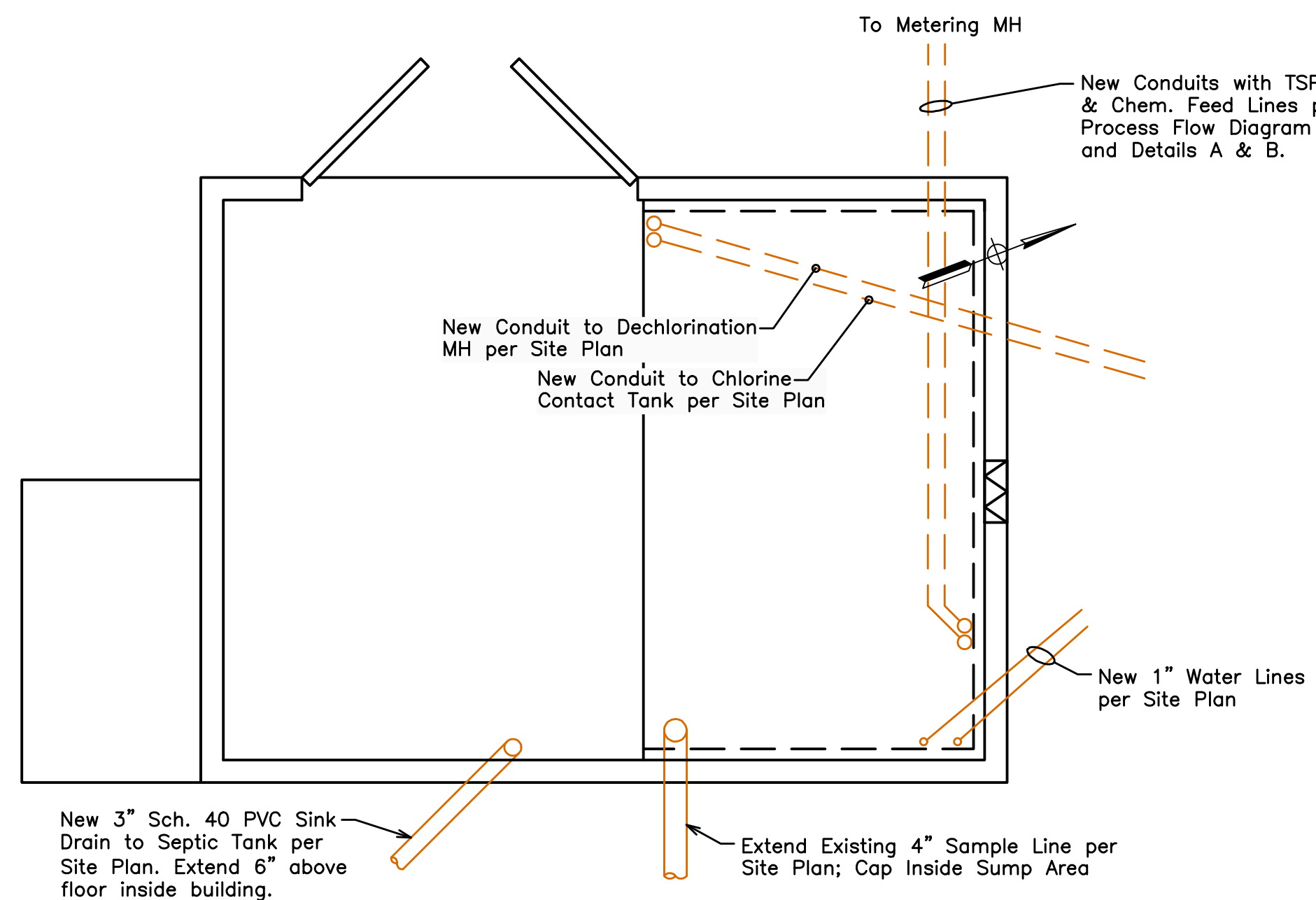
- Notes:**
- All lumber shall be 2x PT.
 - Treads are intentionally narrow to maximize floor space in sump area.

SUMP STEPS DETAIL

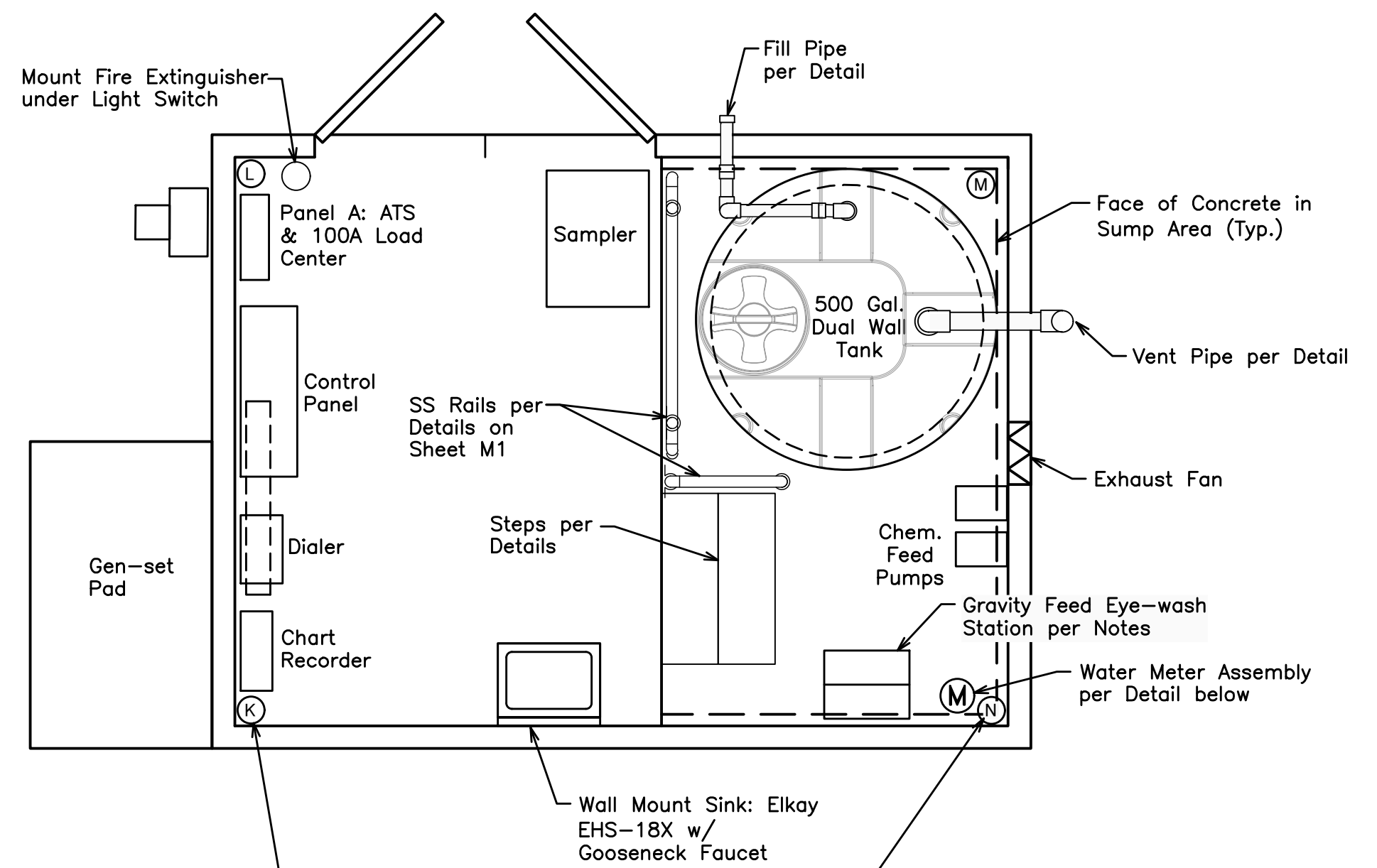


Note: On the Original Full-Scale Drawing, this dimension is 6"

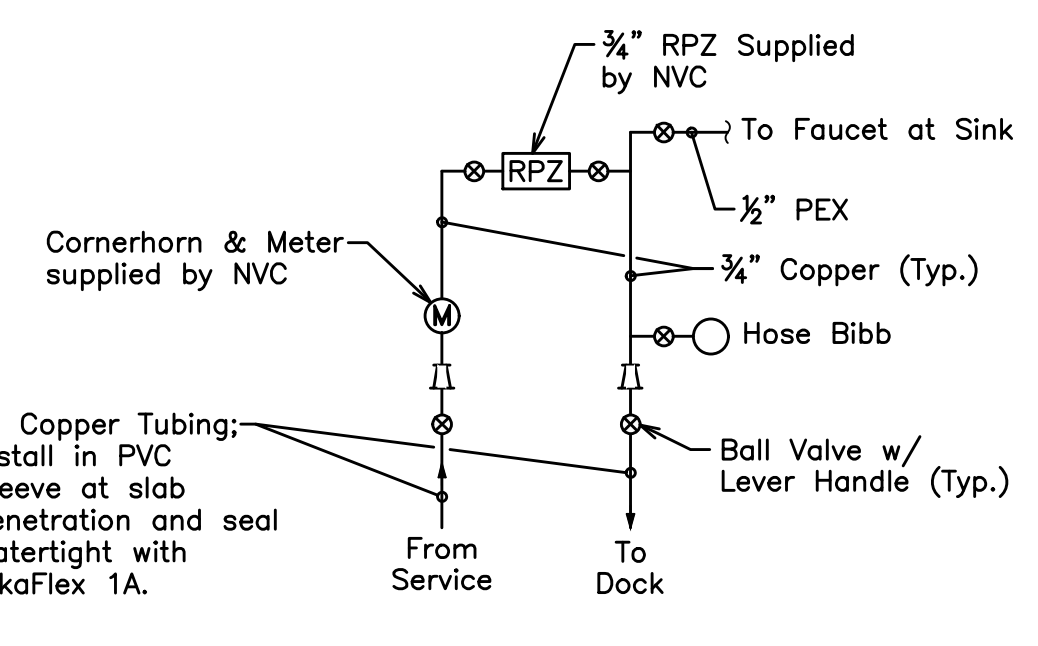
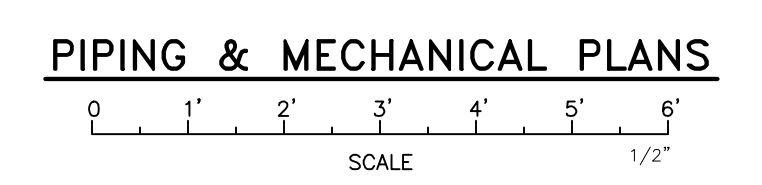
REVISIONS		DATE	NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE	
NO.			NEW CHLORINATION BUILDING PROJECT	
NO.				
VERT. DATUM AS NOTED			BUILDING PLAN & DETAILS	
DATE:	4/6/20			
DRAWN BY:	RUB		DIRIGO ENGINEERING	
CHECKED BY:	RUB			
APPROVED:	[Signature]		SHEET 4 OF 7	
FIELD BK:	59			
FILE:	01 DECHLOR BLDG		#25030	
PROJECT:	#25030			



BELOW GRADE

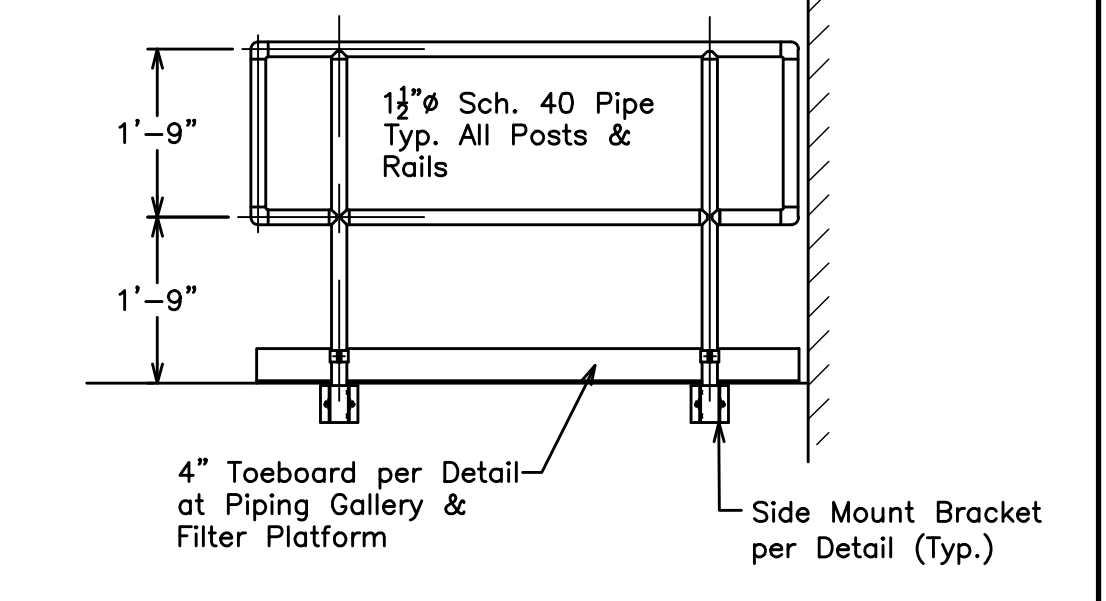


ABOVE GRADE



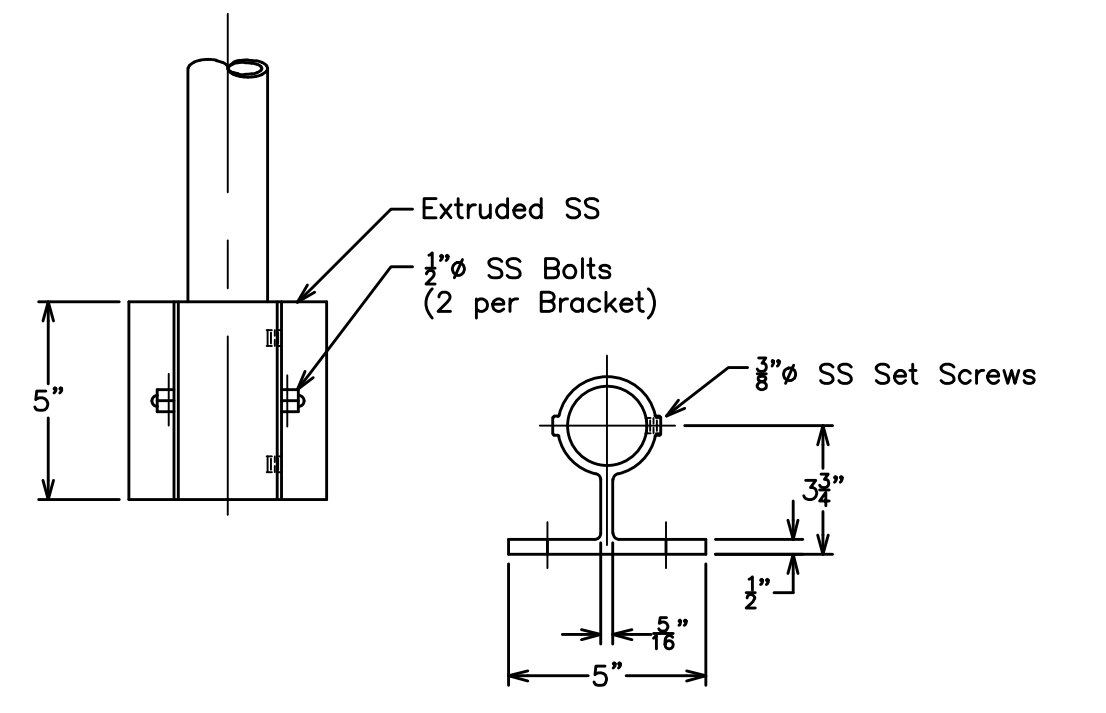
WATER METER ASSEMBLY DETAIL

NOT TO SCALE

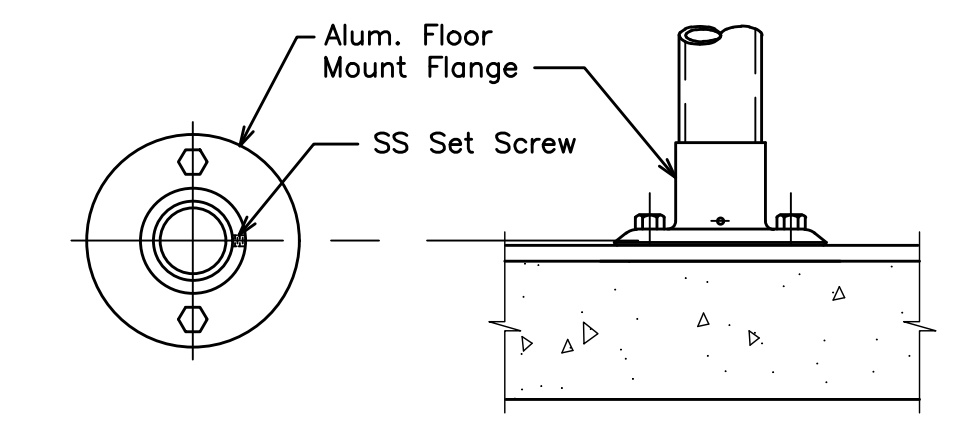


TYPICAL RAILING ELEVATION

NOT TO SCALE

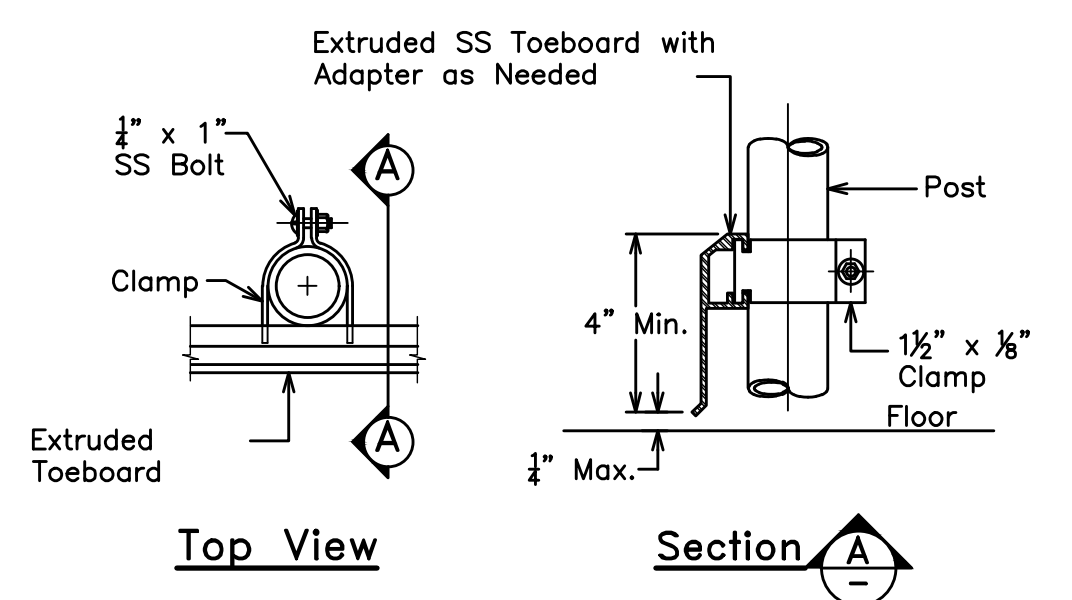


SIDE-MOUNT BRACKET



End View Side View

FLOOR FLANGE DETAIL



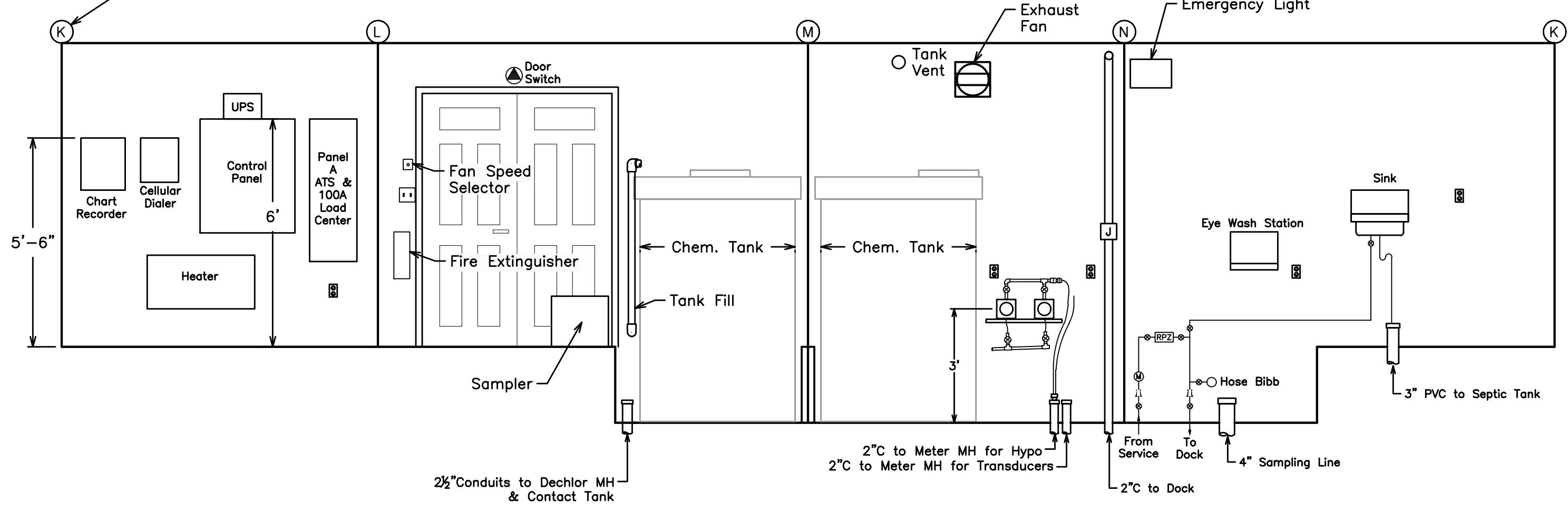
Top View Section A-A

TOEBOARD DETAILS

- SS RAILING NOTES:**
- Handrail and Components Shall be "TUF Rail", as Manufactured by Thompson Fabricating Company (Birmingham Ala.; Ph: 1-800-824-6182) or Approved Equal. All components shall be SS.
 - Install Neoprene Pad between Railing & Concrete Surfaces.
 - Fasten Wall/Base Flanges to Concrete with 3/8" x 2 3/4" L SS Wedge-Lok Anchors.

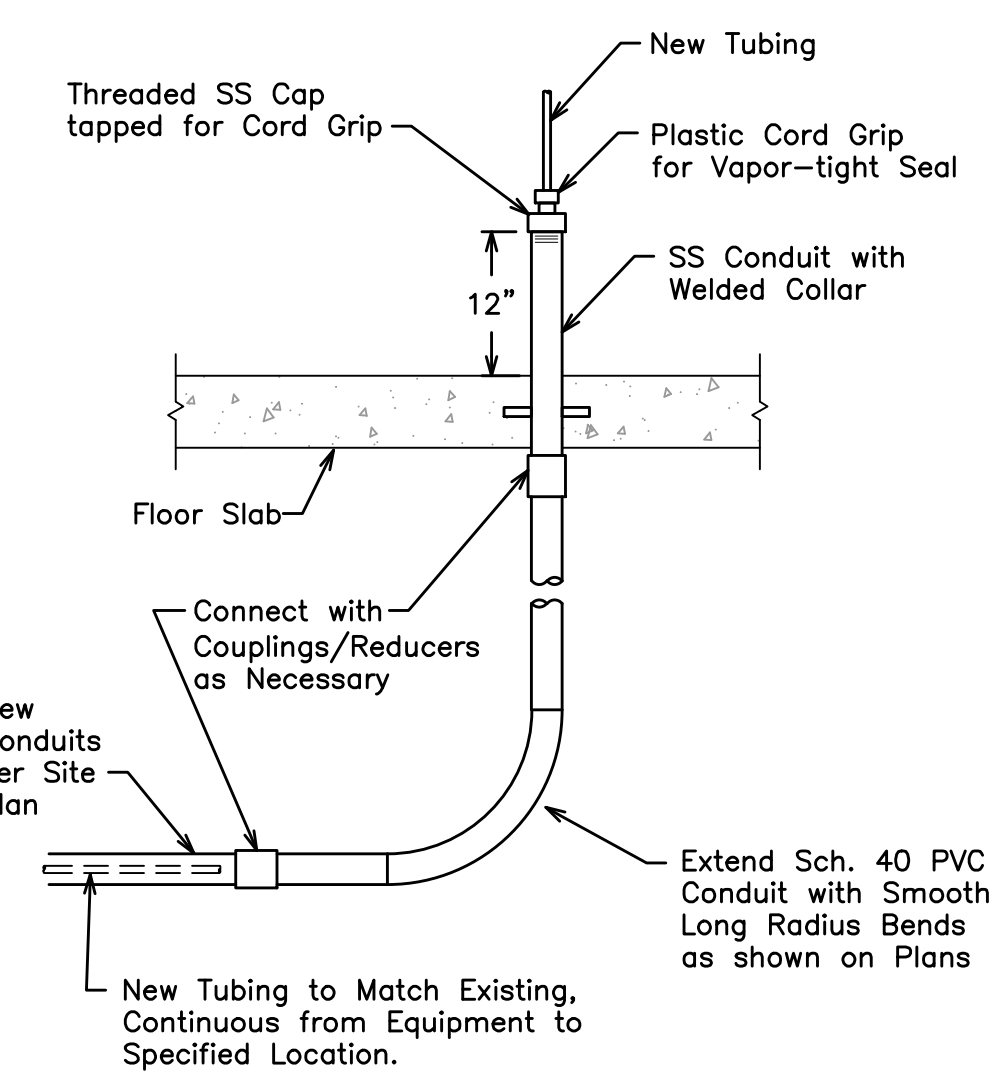
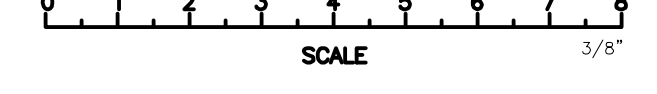
SS RAILING DETAILS

NOT TO SCALE



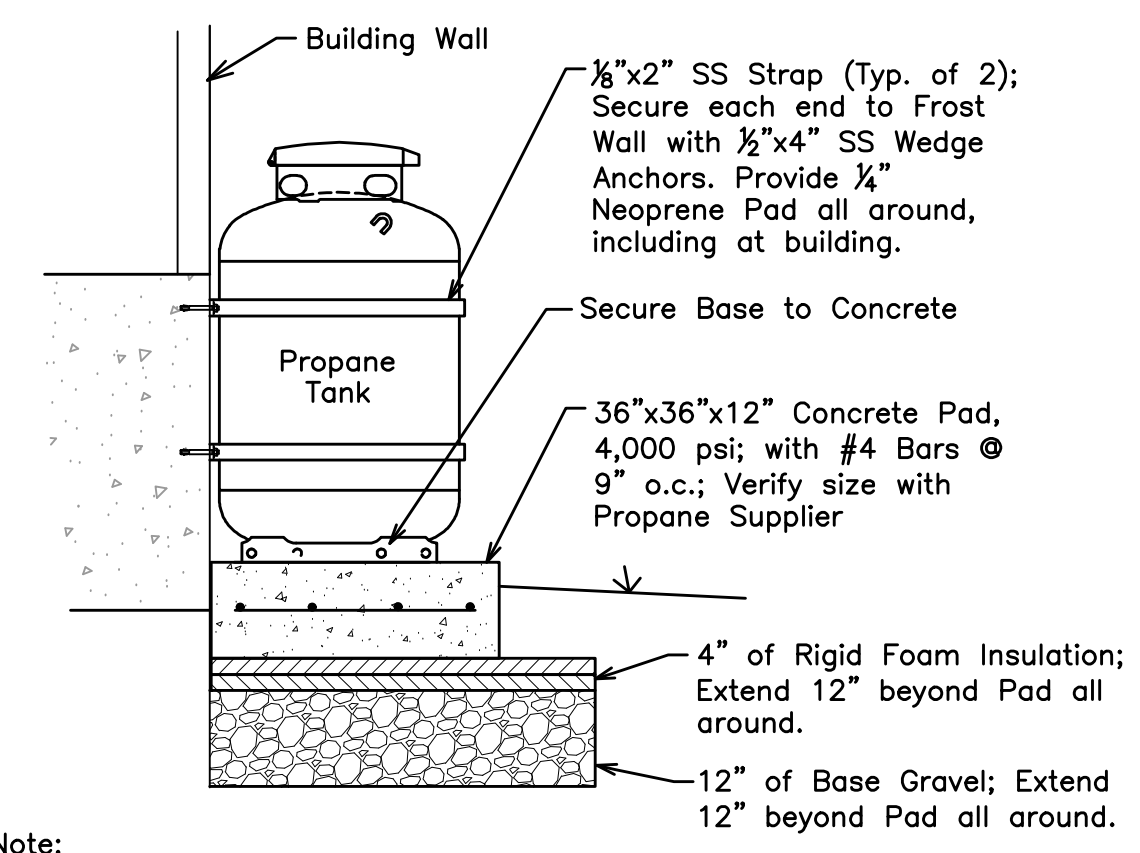
SOUTH WEST NORTH EAST

INTERIOR WALL ELEVATIONS



CHEM. FEED & SAMPLE LINE CONNECTION DETAIL

NOT TO SCALE



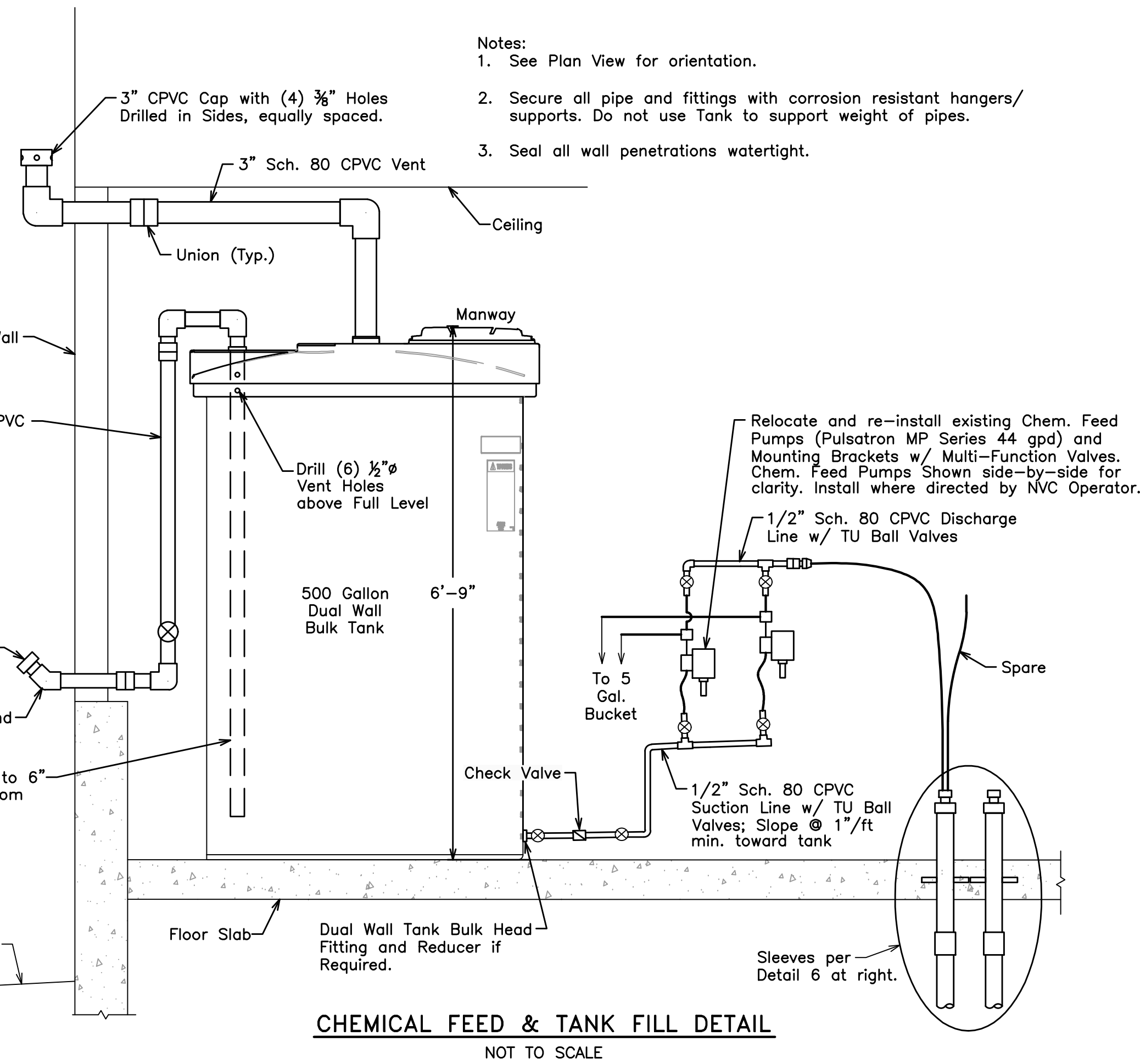
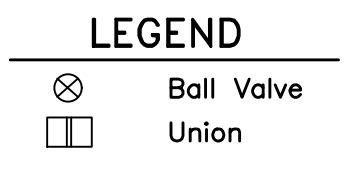
Note: Detail is for general configuration only. All propane equipment and installations shall comply with NFPA 54 & 58. Propane supplier shall size and specify all piping, tanks, and regulators.

PROPANE TANK & PAD DETAIL

NOT TO SCALE

Note: On the Original Full-Scale Drawing, this dimension is 6"

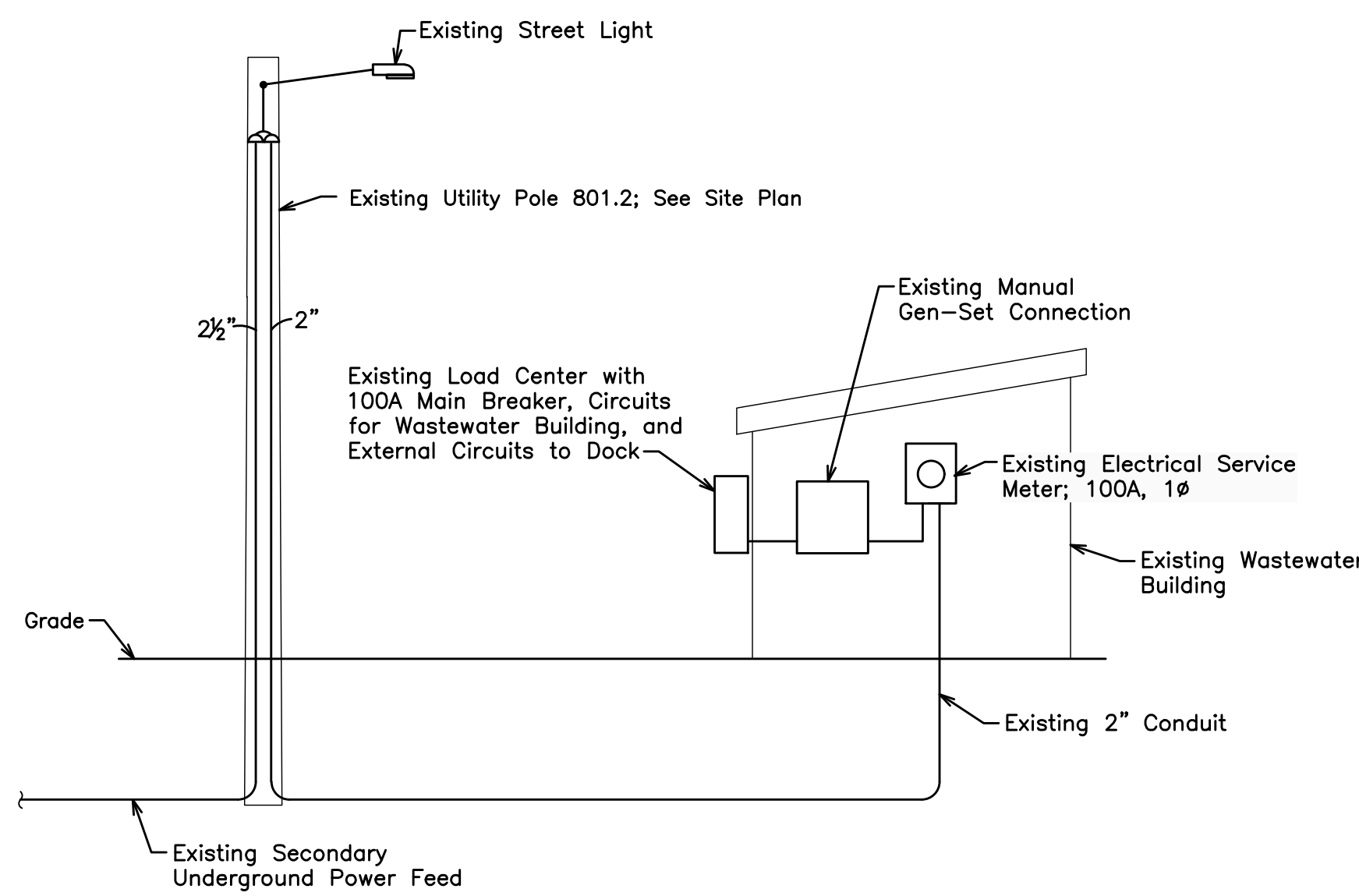
- PIPING NOTES:**
- All Drain Piping shall be Sch. 40 PVC.
 - For all Pipes penetrating Floor Slab, Wrap Pipe with Sill-Seal to Provide Approx. 1/2" cushion all around; Seal around top with Sika-Flex 1A.
 - Chem Feed Shut-offs shall be CPVC True Union Ball Valves.
 - Confirm dimensions and space requirements of all equipment, fittings, and assemblies prior to installation.



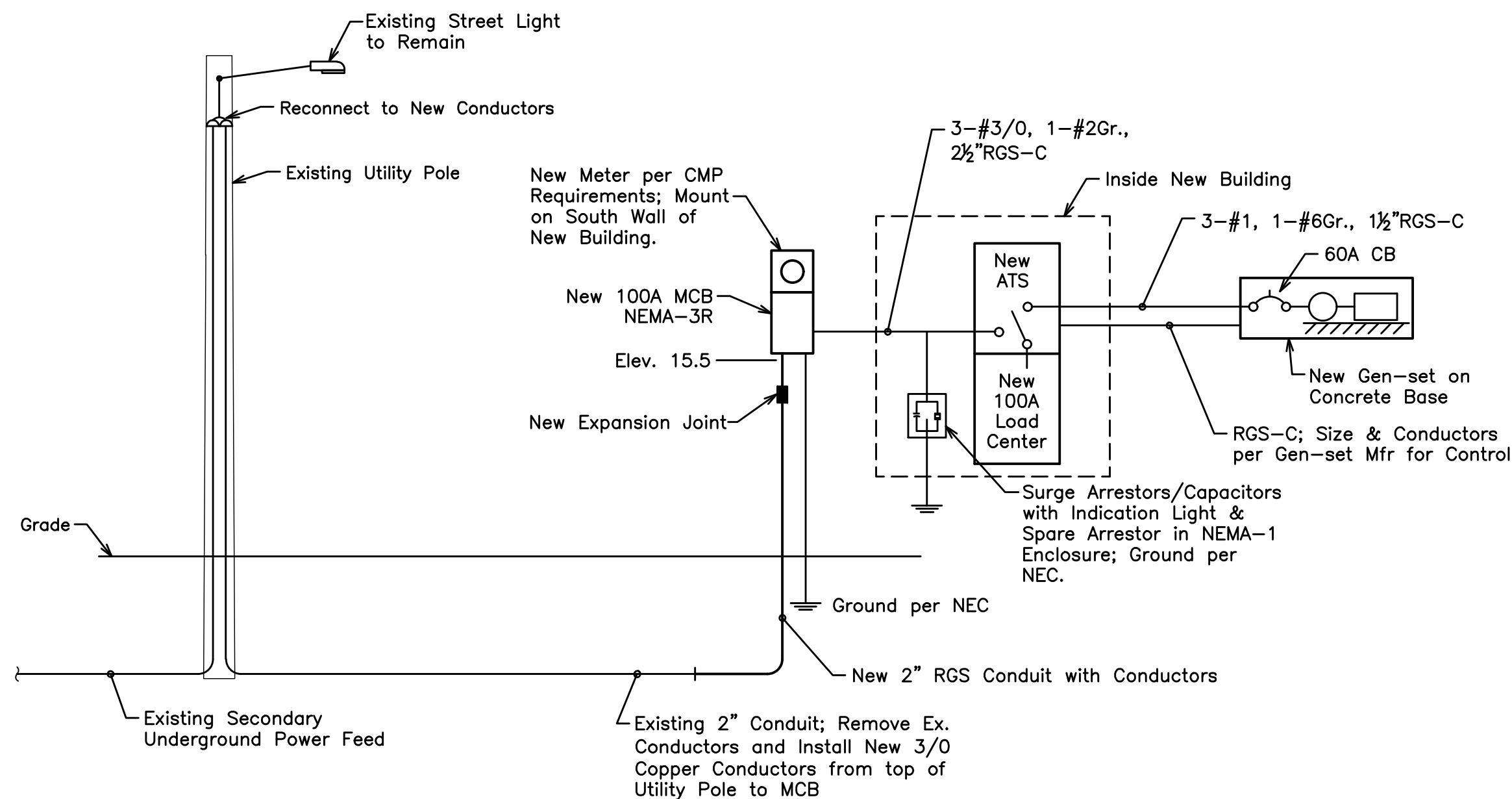
CHEMICAL FEED & TANK FILL DETAIL

NOT TO SCALE

BID SET	REVISIONS		DATE	NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE		
	NO.	AS NOTED	DATE	NEW CHLORINATION BUILDING PROJECT		
	VERT. DATUM	AS NOTED	DATE	PIPING & MECHANICAL PLAN & DETAILS		
	DATE:	4/6/20	DRAWN BY:	RUB	SHEET 5 OF 7	
	CHECKED:	RJB	APPROVED:	DES	M1	
	FIELD BK:	59	FILE:	01 DECHLOR BLDG	DIRIGO ENGINEERING 2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401	
	PROJECT:	#25030	PROJECT:	#25030		



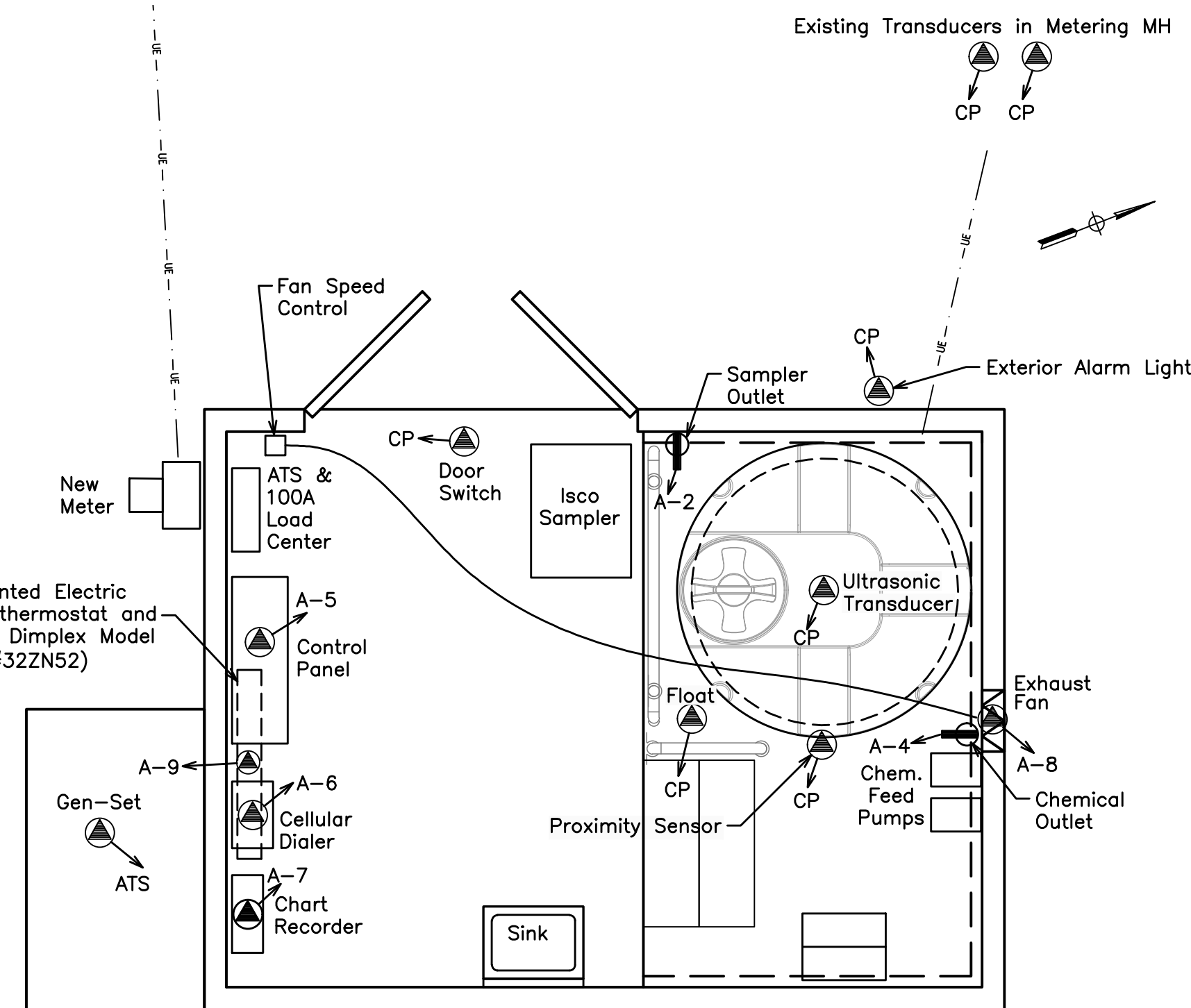
EXISTING POWER ONE-LINE DIAGRAM



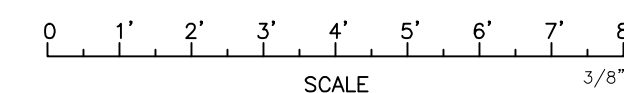
NEW POWER ONE-LINE DIAGRAM

Note: All items are new unless noted otherwise.

ELECTRICAL LEGEND			
AFF ABOVE FINISHED FLOOR	(MS) RELAY/COIL	(N) NEUTRAL	
AHJ AUTHORITY HAVING JURISDICTION	(S) TERMINAL SCREW	— WIRING EXTERNAL TO PANEL	
CP CONTROL PANEL	(A) PANELBOARD/INSTRUMENTS, ETC.	(A) PANEL LIGHT-AMBER	
EF EXHAUST FAN	(C) CONNECTION TO FIXED EQUIPMENT	(G) PANEL LIGHT-GREEN (RUN)	
GFI GROUND FAULT INTERRUPTER	(D) DUPLEX RECEPTACLE; 18" AFF OR AS NOTED	(R) PANEL LIGHT-RED (ALARM)	
MOD MOTOR OPERATED DAMPER	(DD) DEDICATED DUPLEX RECEPTACLE; SEE NOTES	(CB) CIRCUIT BREAKER	
O/L OVERLOAD	(S) SINGLE POLE SWITCH; 48" AFF	— NORMALLY OPEN CONTACT	
OTD ON TIME DELAY	(E) EMERGENCY LIGHT FIXTURE	— NORMALLY CLOSED CONTACT	
RGS RIGID GALVANIZED STEEL	(J) JUNCTION BOX	(O) OVERLOAD	
ROS ROOM OCCUPANCY SENSOR Leviton IPV15-1LZ or Equal	(T) THERMOSTAT	(T) THERMOSTAT	
RTM RUNNING TIME METER	(TA) LOW TEMPERATURE ALARM THERMOSTAT	(P) PRESSURE/LEVEL SWITCH	
TSP TWISTED SHIELDED PAIR	(V) TELEPHONE JACK		
UE UNDERGROUND ELECTRICAL			
WP WATERPROOF			



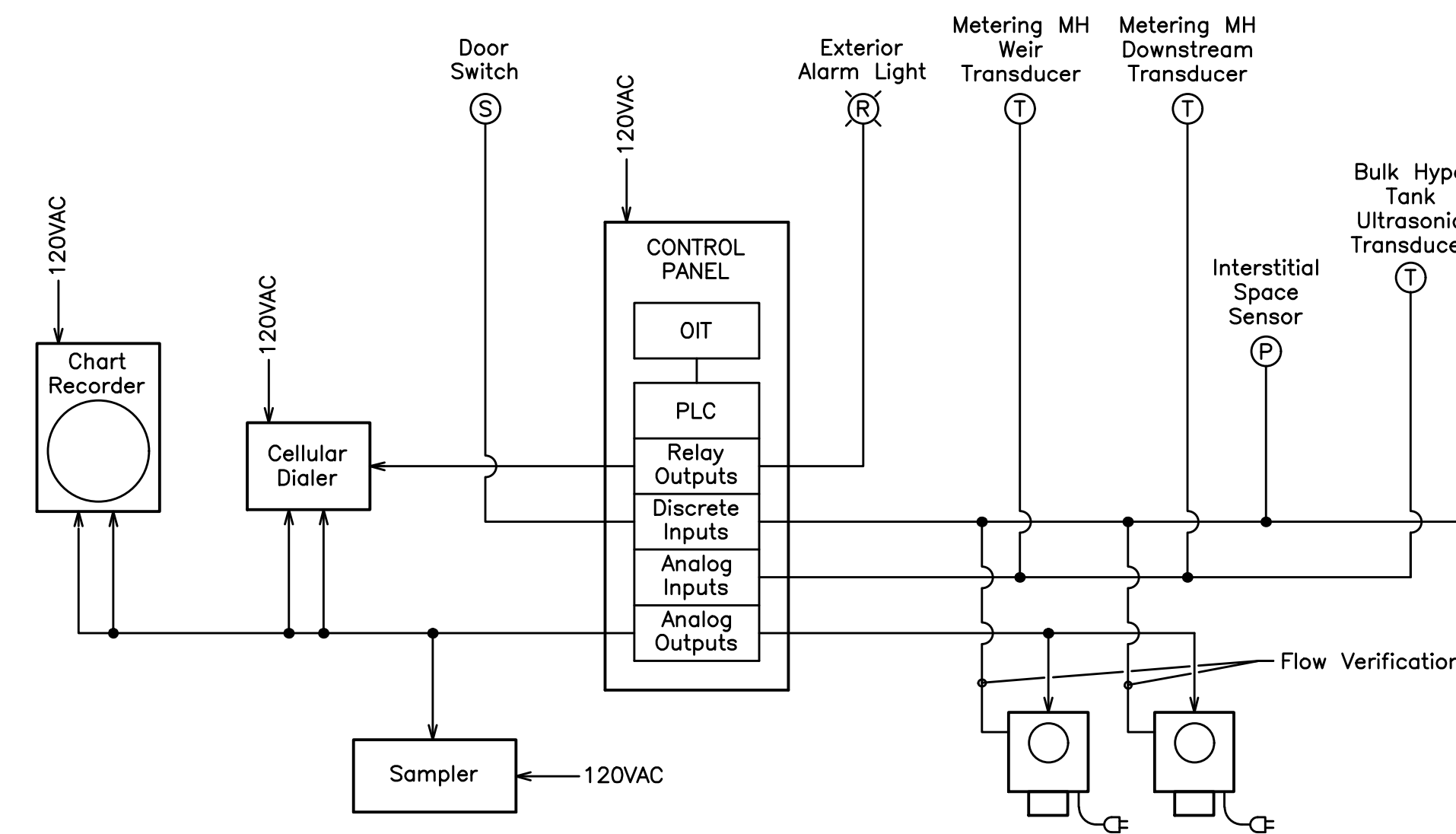
MOTOR & EQUIPMENT PLAN



PANEL-A SCHEDULE

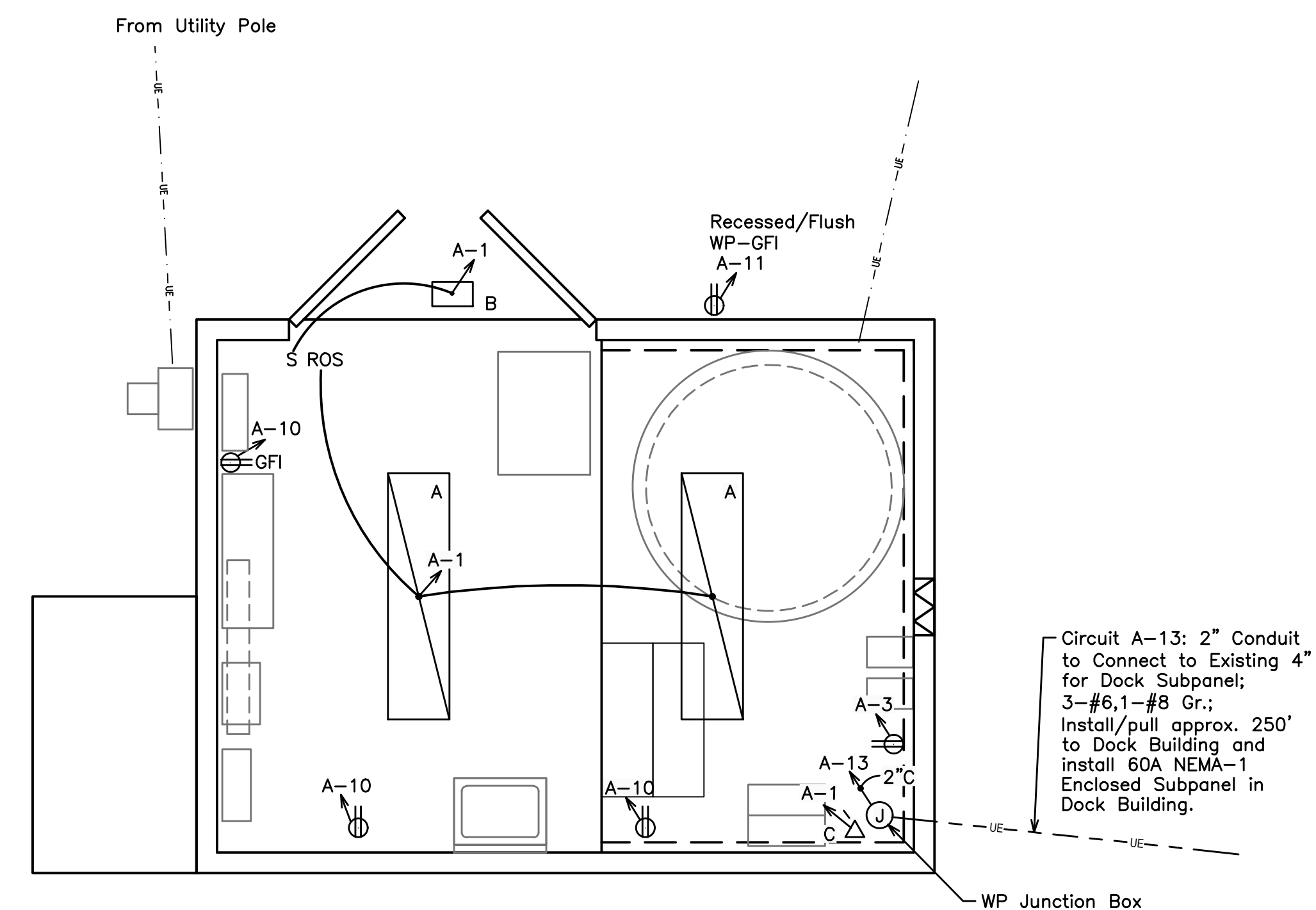
Generac, GenReady with Integrated ATS
120/240V, 1 Phase, 4 Wire, 60 Hz
Panel to have 100A MCB & 24 Spaces
Panel to be NEMA-1 Enclosed
Ground Panel per NEC
All Breakers Shall be Bolt to Bus Type

CKT	Poles	Rating	Description
1	1	20A	Lights
2	1	20A	Receptacle for Sampler
3	1	20A	Receptacle
4	1	20A	Receptacle for Chem. Feed Pumps
5	1	20A	Control Panel
6	1	20A	Cellular Dialer
7	1	20A	Chart Recorder
8	1	20A	Exhaust Fan
9	2	15A	Electric Heat
10	1	20A	Receptacles
11	1	20A	Receptacle - Exterior
12	1	20A	Spare
13	2	25A	Dock Subpanel
14	1	20A	Spare
15	1	20A	Spare
Remainder	1	--	Space

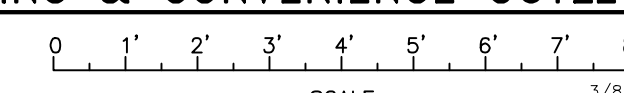


CONTROL ONE-LINE DIAGRAM

Note: On the Original Full-Scale Drawing, this dimension is 6"



LIGHTING & CONVENIENCE OUTLETS PLAN



FIXTURE SCHEDULE

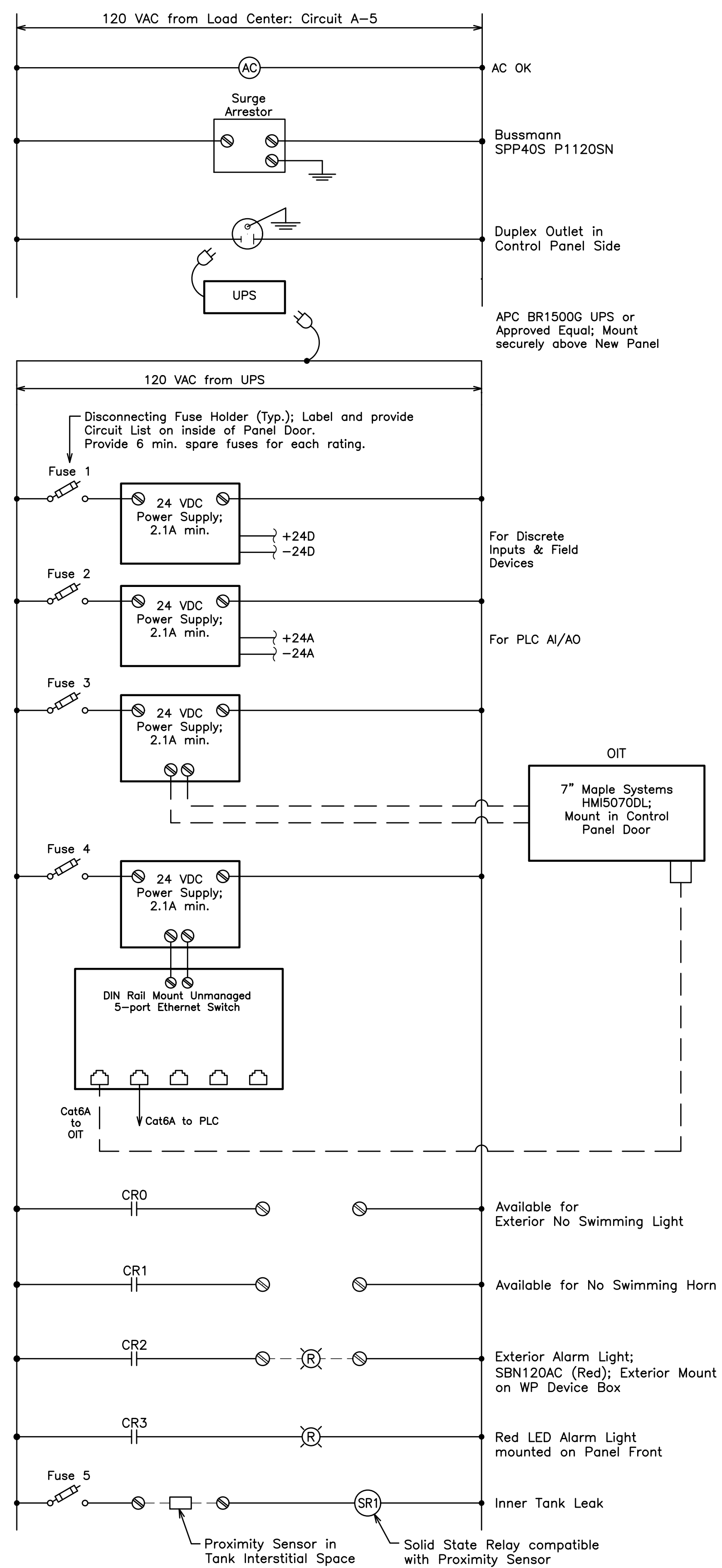
TYPE	NUMBER	MAKE/MODEL	LAMPS	MOUNTING
A	2	Lithonia LBL4 60L EZ1 LP840	LED	Ceiling Surface
B	1	Lumark Wal-Pak Full Cutoff Door LDWP-FC-4B-ED7040-PE120V with Photocell	LED	Exterior Wall Mount as Shown on Building Elevation
C	1	Hubbell Dual-Lite Slimlite SL1 or Cooper Sure-Lites CU2	LED	Wall Mount, 7' AFF

Notes:

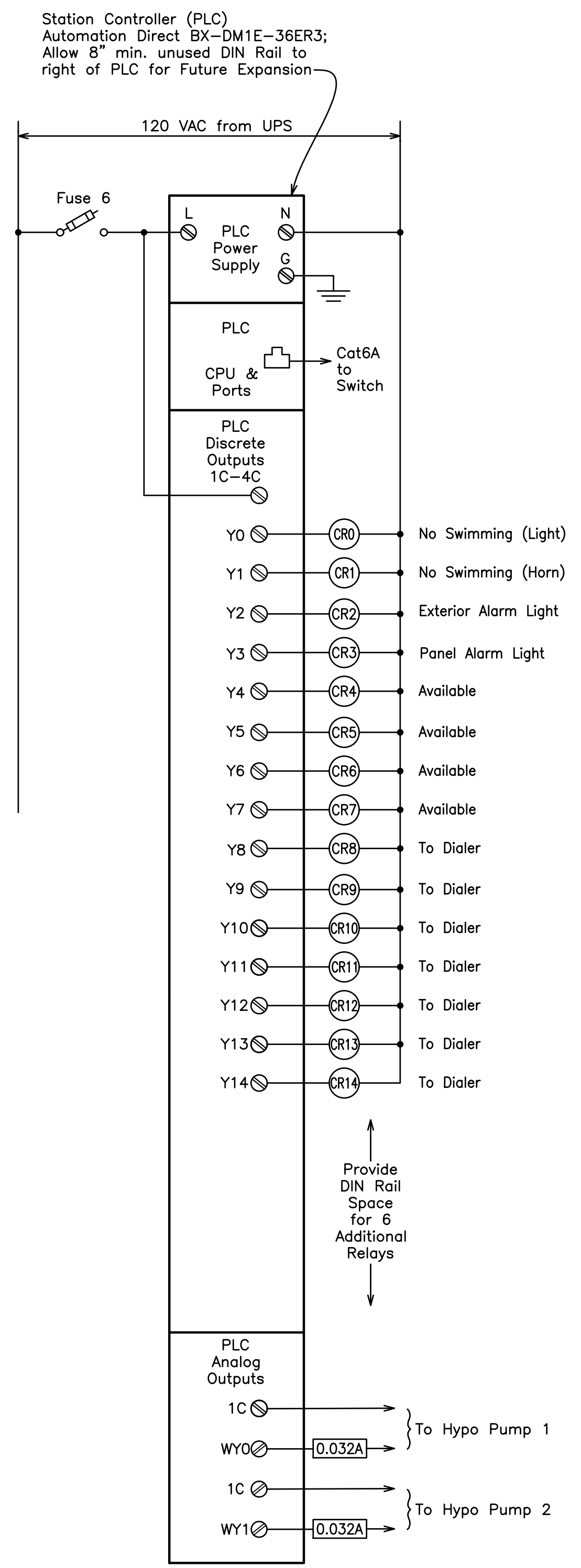
- All electrical work shall comply with all electric utility & NEC requirements. Ground all equipment per NEC. Size all conductors, circuit protection, overloads and conduit per NEC. Sizes shown are minimum acceptable, furnish larger if required by Code.
- All electrical equipment, fixtures, panels, conductors, and work shall be furnished and installed by Contractor unless specifically noted otherwise. Contractor shall furnish all conduits, conductors, and electrical work necessary to provide power to all equipment.
- Wiring for all equipment, motors, blowers, etc. shall be in conduits (either surface mounted or within the slab, walls, or above ceiling).
- Provide non-fused disconnects for all equipment when required by Code (whether drawings show disconnect or not).
- Wiring for lighting and convenience outlets shall be in PVC conduit and installed within walls and above ceilings where permitted by Code. Switches and outlets shall be flush-mounted. Light fixtures shall be surface-mounted.
- Circuit breaker operating mechanisms shall conform to Codes and Ordinances for safety/lockout/tagout procedures.
- Refer to Division 16 for specific electrical work requiring electrical interconnection.
- All exposed exterior conduits shall be RGS.
- Power, signal, and monitoring (status) conductors shall not utilize the same conduit, raceway, or junction box.
- All Outlets shall be GFI (unless they are intended for equipment operation). Provide Waterproof Covers for all Switches and Outlets.

NO.		REVISIONS	DATE

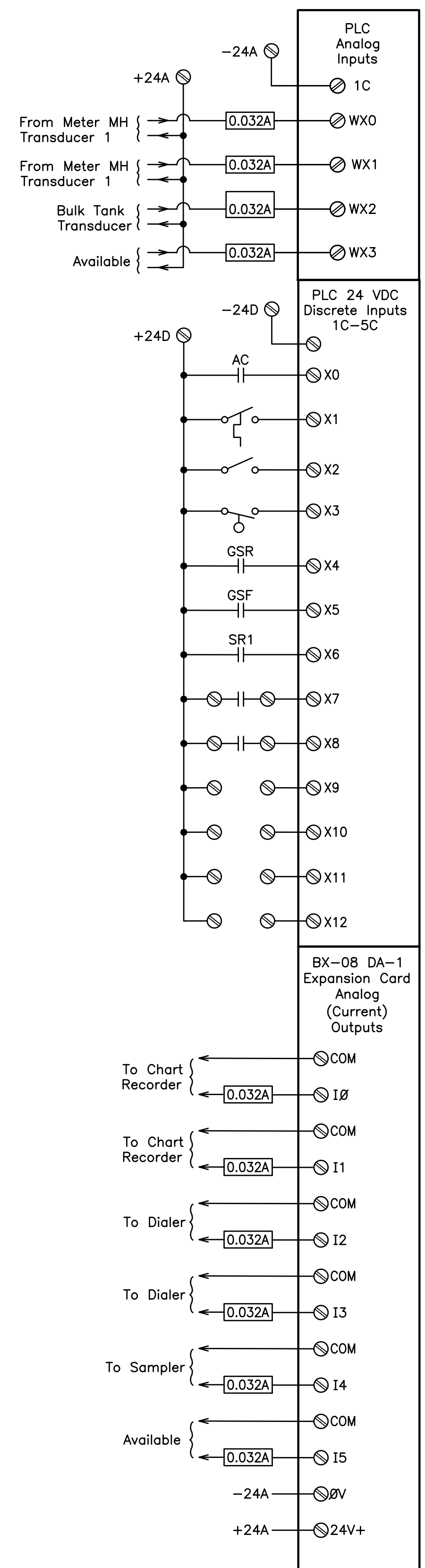
BID SET	VERT. DATE	AS NOTED	NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE NEW CHLORINATION BUILDING PROJECT ELECTRICAL PLANS & DETAILS
	DATE:	4/6/20	
	DRAWN BY:	RJB	
	CHECKED:	PJB	
	APPROVED:	TS	
	FIELD BK:	59	
FILE:	01 DECHLOR BLDG		
PROJECT:	#25030	SHEET 6 OF 7 E1	



CONTROL PANEL SCHEMATIC



PLC SCHEMATIC

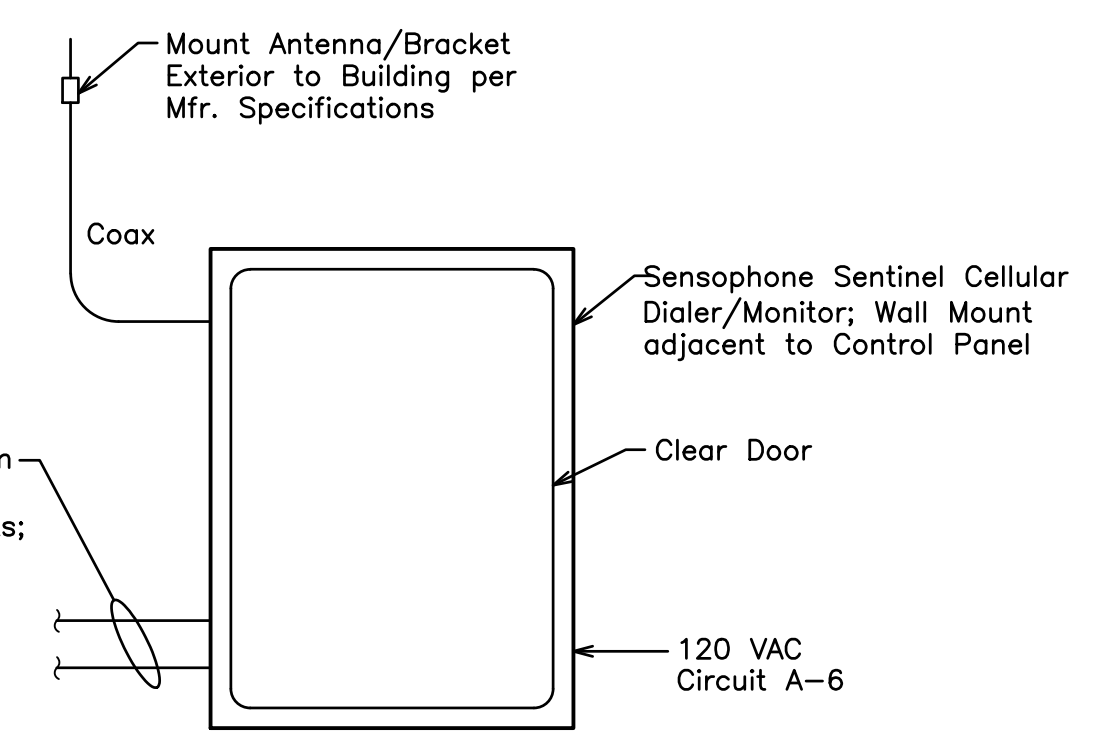


LEGEND

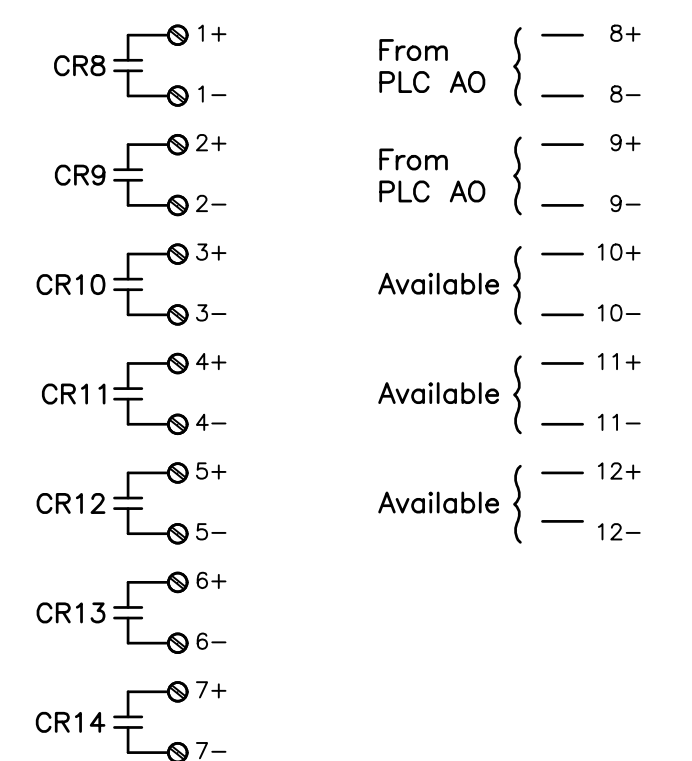
0.032A Edison S500-32-R 0.032A Fast Acting Fuse with DN-F10 Fuse Terminal Block

PLC SCHEMATIC (CONT'D)

- AC OK
- Low Temperature Alarm: Honeywell Line Voltage Thermostat 40-80° Range #T498A1778 or Equal. Mount on Control Panel front.
- Door/Reed Switch McMaster Carr #8073A13
- Sump Flood
- Gen-Set Run from ATS
- Gen-Set Fault from ATS
- Inner Tank Leak
- Chem. Feed Fail / Flow Verification
- Chem. Feed Fail / Flow Verification
- Available
- Available
- Available
- Available



WIRING DETAILS



DIALER DETAILS

Note: On the Original Full-Scale Drawing, this dimension is 6"

		NORTHPORT VILLAGE CORPORATION NORTHPORT, MAINE	
		NEW CHLORINATION BUILDING PROJECT	
		CONTROL PANEL SCHEMATICS	
BID SET	NO.	REVISIONS	DATE
	VERT. DATUM	AS NOTED	DATE: 4/6/20
	DRAWN BY:	RJB	CHECKED BY: <i>[Signature]</i>
	APPROVED:	<i>[Signature]</i>	FIELD BK: 59
	FILE:	01 DECHLOR BLDG	PROJECT: #25030
			SHEET 7 OF 7
		E2	

DIRIGO ENGINEERING
2 DIRIGO DRIVE, FAIRFIELD, MAINE 04937 (207) 453-2401