CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS FUEL SYSTEM UPGRADE

680 PEVERLY HILL RD PORTSMOUTH, NEW HAMPSHIRE

INDEX OF SHEETS

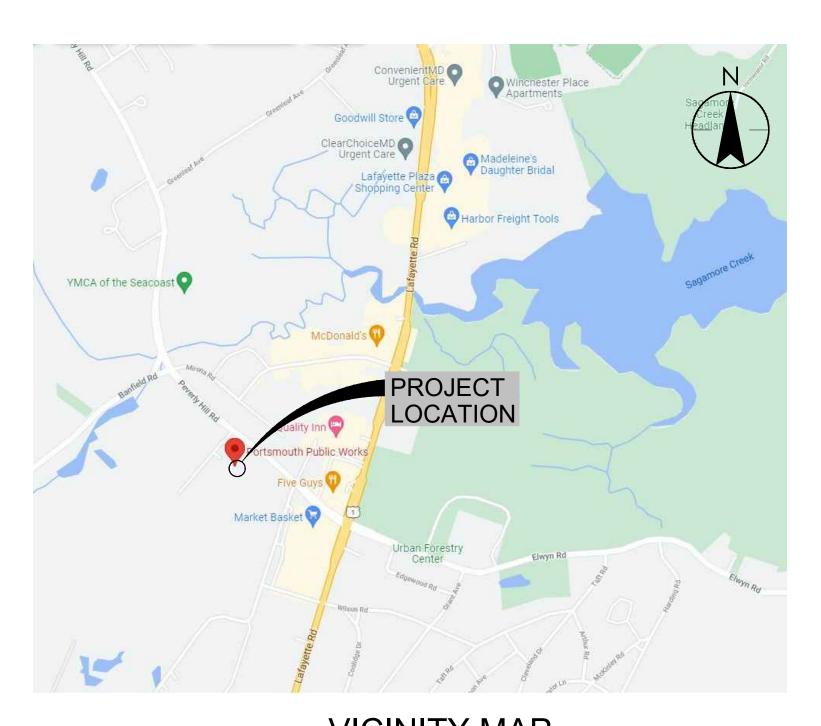
FENCING DETAILS

TRAFFIC CONTROL PLAN

SHEET NO.	TITLE	SHEET NO.	TITLE	SHEET NO.	TITLE
FS.100 FS.101	COVER SHEET FUEL SYSTEM NOTES, ABBREVIATIONS & LEGENDS, WELL MAP, AND FLOOD MAP	FS.310 FS.320	PIPING PLAN UST INSTALLATION DETAILS AND NOTES CONTAINMENT SOLUTIONS 10K GAS AND DIESEL	FS.410 FS.420 FS.421	CONDUIT PLAN AND CONDUIT SCHEDULE SINGLE LINE DIAGRAM UST SUMP CONDUIT DETAILS AND DISPENSER SUMP CONDUIT DETAILS
FS.102 FS.210 FS.211 FS.212	VERIFICATION FORMS EXISTING SITE PLAN DEMOLITION PLAN PROPOSED SITE PLAN	FS.322 FS.323	UST RISER DETAILS AND HIGH LEVEL SET POINTS UST PIPING SUMP PLAN AND DETAILS PIPING TRENCH AND DISPENSER SUMP DETAILS VENT RISER PIPING DETAILS FS.422 FS.425 FS.426	INTERSTITIAL RISER, I.S. SENSOR, AND CONDUIT TRENCH DETAILS. HIGH LEVEL ALARM AND E-STOP DETAILS, PANEL SCHEDULE AND ELECTRICAL COMPONENTS LIST. ELECTRICAL SCHEMATIC (1 OF 3) ELECTRICAL SCHEMATIC (2 OF 3) ELECTRICAL SCHEMATIC (3 OF 3) ELECTRICAL HAZARD LOCATION PLAN	
FS.213 FS.220 FS.221 FS.222 FS.223	GRADING AND DRAINAGE PLAN DISPENSER AND FUEL ISLAND DETAILS CONCRETE PLANS AND DETAILS PLB, BOLLARD, AND PAVEMENT DETAILS CANOPY AND SIGN DETAILS	FS.325			

CITY OF PORTSMOUTH

COUNTY OF ROCKINGHAM



VICINITY MAP

43° 2' 16.1" N

70° 46' 38.99" W



Stantec Consulting Services Inc 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

603.669.8672 603.669.7636 rate COA 00865 NHDES FACILITY ID #0

opyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Leg

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 1_195602217_Portsmouth-DPW_G.dwg CLC RBL CLC 05.12.22

Permit-Se

RONALD B. LAURENCE JR. No. 10263

NEW HAMPSHIRE PROFESSIONAL ENGINEER #102

Client/Proje

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

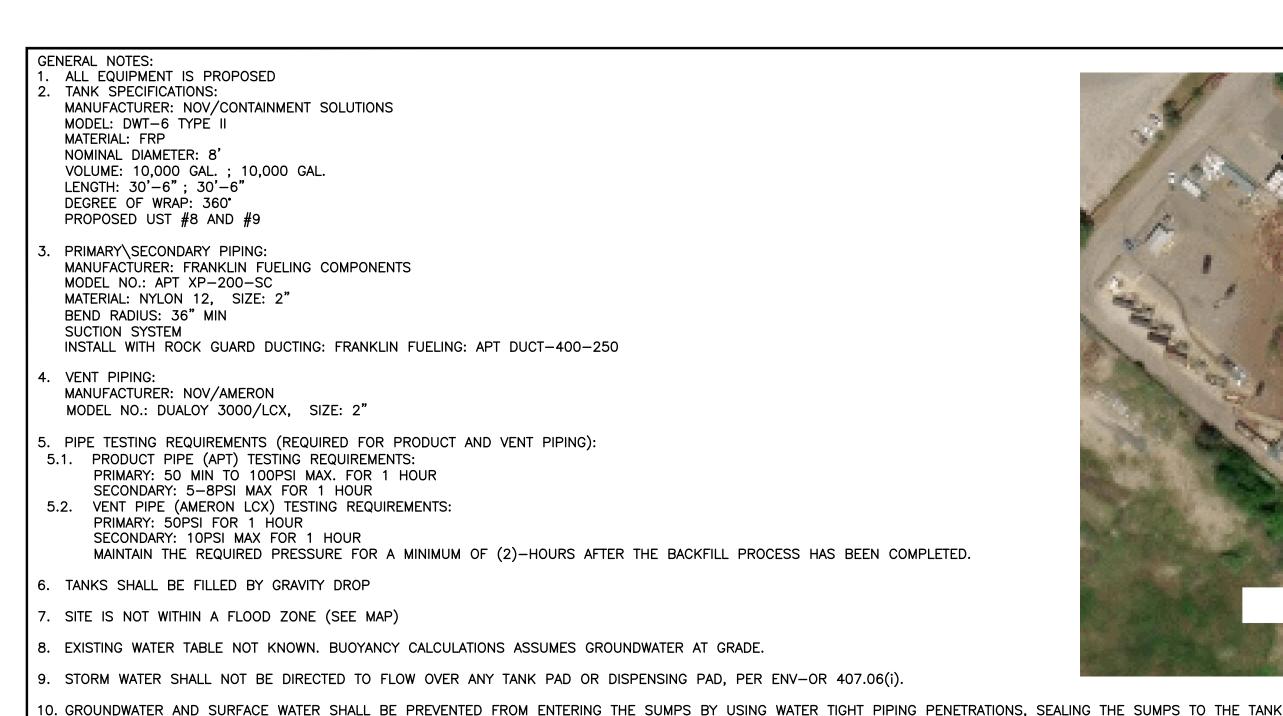
680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

COVER SHEET

Project No.
195602217

Scale
AS SHOWN

Drawing No.
Sheet
Revision



11.1. HYDROSTATICALLY TEST AT A LEVEL THAT IS WITHIN ONE INCH OF THE TOP OF THE SUMP OR 10 INCHES ABOVE THE HIGHEST PENETRATION FITTING, WHICHEVER IS

12.5. IF THE VACUUM AFTER 1 MINUTE IS 26" WATER COLUMN (1.9" MERCURY) OR GREATER, BOTH PRIMARY AND SECONDARY CONTAINMENT VESSELS ARE TIGHT.

14.1. CONTACT THE NHDES DEPARTMENT TO ARRANGE FOR AN INSPECTION OF THE SYSTEM AT LEAST 5 DEPARTMENT BUSINESS DAYS PRIOR TO BACKFILLING THE TANK TOP. 14.2. AT LEAST 8 DEPARTMENT WORKING HOURS PRIOR TO AN INSPECTION BY THE DEPARTMENT, SUBMIT A LETTER PREPARED AND STAMPED BY A NEW HAMPSHIRE LICENSED PROFESSIONAL ENGINEER. STATING THAT THE INSTALL UST SYSTEM HAS BEEN INSPECTED BY A NH PE TO VERIFY THAT THE SYSTEM WAS CONSTRUCTED IN ACCORDANCE

UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS, CONCRETE MIX SHALL BE 4,000 PSI MINIMUM, CLASS AA, 658 LBS. AND 3.0 BAGS PER CUBIC YARD

C. ALL CONCRETE SHALL BE COATED WITH A WATER REPELLENT SEALER IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS SECTION 534. CONCRETE SHALL BE

FORMS OR SCREEDS SHALL BE USED FOR ALL CONCRETE AND SHALL BE SO CONSTRUCTED AND PLACED THAT THE RESULTING CONCRETE WILL BE OF THE SHAPE.

NO CONCRETE SHALL BE PLACED UNTIL REINFORCING ANCHORS, ETC. AND OTHER WORK REQUIRED TO BE BUILT INTO THE CONCRETE HAVE BEEN INSPECTED AND

REINFORCING SHALL BE FORMED AND SPACED, SECURED IN PLACE BY REBAR CHAIRS TO WITHSTAND ALL CONSTRUCTION SHOCKS. OTHER METHODS FOR SECURING

THE TOP FACE OF CONCRETE SLABS SHALL BE GIVEN A BROOM FINISH. SLABS SHALL BE KEPT WET DURING THE CURING PERIOD AND BE COVERED WITH CURING

K. ALL GROUTING AND REPAIR WORK SHALL BE DONE USING AN APPROVED NON-SHRINK GROUT MIXED AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

18. FOLLOWING NHDES FINAL INSPECTION AND PRIOR TO ISSUANCE OF AUTHORIZATION TO OPERATE, THE PRIMARY CONTAINMENT SYSTEM SHALL BE CHECKED TO VERIFY VAPOR

DETECTION CRITERIA SPECIFIED IN ENV-OR 406.06. TEST RESULTS SHALL BE FORWARDED TO NHDES INSPECTOR AND UPLOADED TO NHDES ONESTOP (BY OWNER).

TIGHTNESS. TIGHTNESS TESTING PROCEDURES SHALL CONFORM WITH ENV-OR 406.05 AND SHALL INCLUDE A LISTED TEST METHOD THAT IS CERTIFIED TO MEET LEAK RATE

19. ALL PROPOSED AREAS OF EXCAVATION SHALL BE INVESTIGATED FOR EXISTING UTILITIES PRIOR TO COMMENCING DEMOLITION ACTIVITIES. CONTRACTOR SHALL PROVIDE DIG SAFE

20. ALL EQUIPMENT SHALL BE INSTALLED BY AN ICC CERTIFIED TANK INSTALLER AS REQUIRED BY ENV-Or 407.05. INSTALLER SHALL ALSO BE QUALIFIED BY THE MANUFACTURER

22. THE SUMP LIQUID SENSORS IN ALL DISPENSER AND PIPING SUMPS SHALL BE PROGRAMMED FOR POSITIVE DISPENSER SHUTDOWN UPON DETECTION OF A LEAK IN EITHER

CONSOLIDATE PLACED CONCRETE USING MECHANICAL VIBRATING EQUIPMENT WITH HAND-RODDING AND TAMPING. SO THAT CONCRETE IS WORKED AROUND REINFORCEMENT

WITH FIBER MESH (COMPLYING WITH ASTM C 1116 TYPE III 4.1.3). CONFORM TO NHDOT STANDARD SPECIFICATIONS DIVISION 500 SECTION 520.

REINFORCING: AS SPECIFIED IN THE CONSTRUCTION DRAWINGS AND CONFORMING TO NHDOT STANDARD SPECIFICATIONS SECTION 544.

14.4. REGULATED SUBSTANCE SHALL NOT BE PLACED IN ANY TANK OR DRAWN INTO ANY PIPING UNTIL WRITTEN AUTHORIZATION IS GIVEN BY NHDES.

WATER WELI

250' PRIVATE WATER WELL SETBACK

TO GASOLINE FUEL SYSTEM

EXISTING PRIVATE

MAP SOURCE: NHDES ONESTOP DATA MAPPER, 9/27/2021

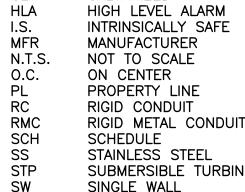
OVER 3000 FEET TO PUBLIC WATER SUPPLY

2. APPROX. 635 FEET TO SURFACE WATER

UST LOCATION

3. APPROX. 605 FEET TO PRIVATE WATER WELLS

4. SITE IS NOT WITHIN DESIGNATED RIVER CORRIDOR, GA1, GA2 OR GAA GROUNDWATER CLASSIFICATION AREAS.



ABBREVIATIONS

BLACK

DIAMETER

DISPENSER

DOUBLE WALL

FUEL SYSTEM

GALVANIZED

EMERGENCY STOP

BLK

DIA.

DW

FS

GLV

TYP

UG

DISP.

E-STOP

CONT

COMM

ABOVEGROUND

AUTOMATIC TANK GAUGE

FUEL MANAGEMENT PEDESTAL

FUEL MANAGEMENT SYSTEM

AREA LIGHT

CONTINUATION

COMMUNICATIONS

SUBMERSIBLE TURBINE PUMP SINGLE WALL TBD TO BE DETERMINED TYPICAL UNDERGROUND UNDERGROUND STORAGE TANK VAPOR RECOVERY

CALL OUT LEGEND XX ABOVEGROUND STORAGE TANK — SHEET # ——➤ ENLARGED PLAN **DETAIL BOX LEGEND** ELECTRICAL METALLIC TUBING _____ FIBERGLASS REINFORCED PLASTIC GASOLINE ADVERTISING PRODUCTS

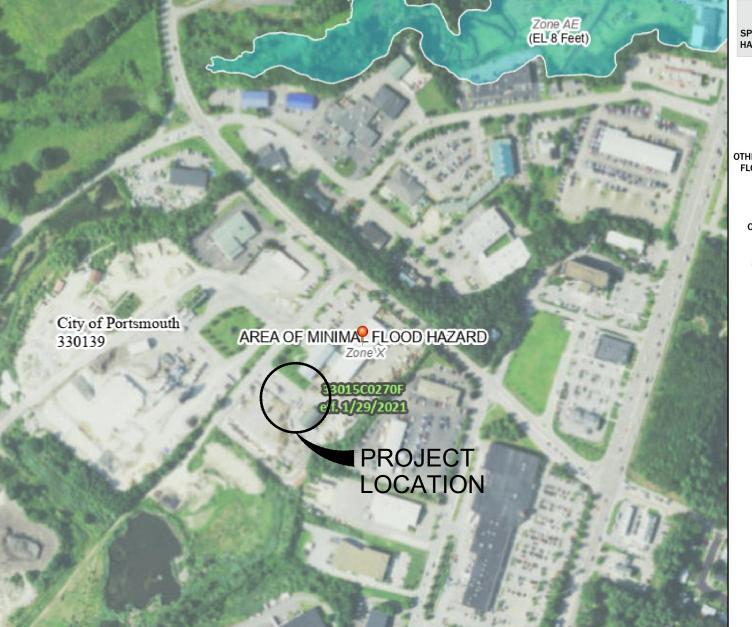
ABBREVIATIONS & LEGENDS

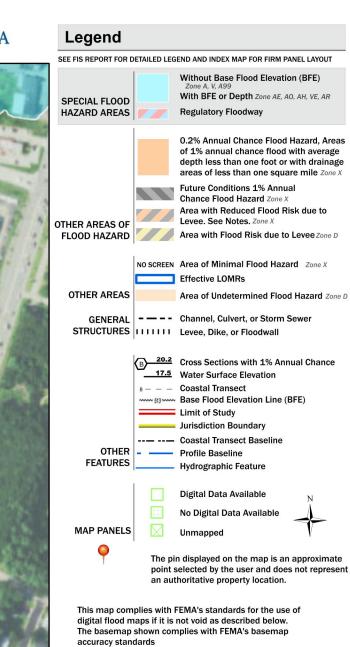
GENERAL SCOPE OF WORK: NOTE: CONTRACTOR SHALL REFERENCE PROPOSAL DOCUMENTS FOR COMPLETE SCOPE OF WORK.

1. CONTRACTOR SHALL REMOVE EXISTING FUEL SYSTEM IN ACCORDANCE WITH ALL LOCAL, STAGE AND FEDERAL REGULATION, REMOVAL SHALL INCLUDE BUT NOT BE LIMITED TO USTS, DISPENSERS, CANOPY, FUELING ISLAND, PIPING ETC..

2. CONTRACTOR SHALL INSTALL A COMPLETE FUEL SYSTEM INCLUDING BUT NOT LIMITED TO USTS, SUCTION DISPENSERS, FUEL AND VENT PIPING, APPROVED BACKFILL AND CONCRETE, VEHICLE PROTECTION, ENVIRONMENTAL MONITORING CONSOLE, FUEL MANAGEMENT EQUIPMENT, CANOPY AND ELECTRICAL EQUIPMENT. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AND BLEND INTO SURROUNDING GRADES IN ACCORDANCE WITH PROPOSED GRADING PLAN.







Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A. Tel. 603.669.8672 NHDES SITE #199706017 🕰 Fax. 603.669.7636

Copyright Reserved

NH State COA 00865

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

NHDES FACILITY ID #0113665

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC Appd. MM.DD.YY Revision RBL ISSUED FOR BID 08.26.22 RBL 05.12.22 ISSUED FOR NHDES PERMIT Appd. MM.DD.YY CLC RBL CLC 05.12.22 File Name: 1_195602217_Portsmouth-DPW_G.dwg Dwn. Chkd. Dsgn. MM.DD.YY Permit-Seal RONALD

> RONALD B. LAURENCE JR. NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

FUEL SYSTEM NOTES, ABBREVIATIONS & LEGENDS, WELL MAP AND FLOOD MAP

Project No. Scale AS SHOWN 195602217 Drawing No.

National Flood Hazard Layer FIRMette

250 500 1.000 1.500

FLOOD MAP

1:6,000

FUEL SYSTEM NOTES

OF THE EQUIPMENT BEING INSTALLED FOR EVERY COMPONENT IN THE SYSTEM.

SUMP. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

USING FIBERGLASS RESIN AND USING WATERTIGHT SURFACE MANHOLES.

12.7. REPLACE COMPONENTS OR REPAIR AS NECESSARY.

MINIMUM "V" GROOVE - 3/4" WIDE X 3/4"

DEEP GROOVE CROSS SECTIONAL

TOTAL PLB GROOVE LENGTH: 8610"

13. POSITIVE LIMITING BARRIER(PLB) VOLUME, PER ENV-OR 405.07(b):

14. NOTIFICATION AND INSPECTIONS, PER ENV-OR 407.07: 🕰

17. CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

WITH THE DEPARTMENT'S APPROVED PLANS AND SPECIFICATIONS

15. ALL ELECTRICAL WORK WILL BE PERFORMED IN ACCORDANCE WITH NFPA 70.

CURED IN ACCORDANCE WITH TABLE 520-9, CURE METHOD "A."

AND OTHER EMBEDDED ITEMS AND INTO PARTS OF ALL FORMS.

PAPER. CONCRETE SHALL BE SEALED WITHIN 24 HOURS OF THE POUR.

14.3. TANK REMOVAL AND CLOSURE ACTIVITIES SHALL COMPLY WITH ENV-OR 408

12.8. REINSTALL GAUGE.

(5)-ROWS OF PLB

AREA: 0.281 SQ.IN.

16.1. TANK CERTIFICATE

16.4. PERMIT TO OPERATE

16.2. SPILL RESPONSE GUIDELINES

16.3. CLASS C OPERATOR DETAILS

16.5. TANK MONITOR ALARM LEGEND

APPROVED BY THE ENGINEER.

REBAR ARE NOT ACCEPTABLE.

AS REQUIRED BY NH RSA 374:51.

11. SUMPS MUST PASS A TIGHTNESS TEST PER Env-or 406.15, HYDROSTATIC TIGHTNESS TEST;

12.2. ATTACH AIR PRESSURE SOURCE TO AIR PRESSURE REGULATOR ON VACUUM APPARATUS.

11.2. LIQUID LEVEL MEASUREMENTS SHALL BE RECORDED AT THE BEGINNING AND END OF THE TEST

12. OVERSPILL CONTAINMENT MANHOLES SHALL BE VACUUM TESTED AS FOLLOWS, PER ENV-OR 406.15:

12.3. SLOWLY APPLY VACUUM OF 30" WATER COLUMN (2.2" MERCURY) TO THE INTERSTITIAL SPACE.

12.1. REMOVE THE GAUGE FROM THE INSPECTION PORT AND INSTALL THE TEST ADAPTER P/N 494343

12.4. ENSURE THAT THE VACUUM SOURCE IS OFF AND START TIMER. RECORD VACUUM AFTER 1 MINUTE.

12.6. IF TEST FAILS, PERFORM PRESSURE TEST PER EMCO WHEATON INSTRUCTIONS FOR CONFIRMATION.

TOTAL PLB VOLUME (DOWN GRADIENT PORTIONS ONLY): $(6457in*.281in^2)/(231in^3/gal) = 7.85$ GAL

16. THE FOLLOWING POSTINGS MUST BE DISPLAYED WITHIN THE PATROL SHED BEFORE FUEL MAY BE DISPENSED:

LINES, DIMENSIONS, AND TO THE ELEVATIONS INDICATED ON THE CONSTRUCTION DRAWINGS.

21. BOSTIK TYPE SEALANTS SHALL NOT BE USED ON THE INSIDE OF ANY CONTAINMENT SUMP FOR ANY REASON.

A. CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE NHDOT STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL NOT DRIVE ON OR ALLOW OTHERS TO DRIVE ON THE CONCRETE UNTIL SUFFICIENTLY CURED.

11.3. A PASSING TIGHTNESS TEST SHALL INCLUDE NO LOSS OF LIQUID FOR THE 3 HOUR DURATION OF THE TEST.

ORIGINAL SHEET - ANSI D; \\us0287-ppfss01\workgroup\1956\active\195602217\Drawing\Plot_Dwgs\1_195602217_Portsmouth-DPW_G.dwg; 08/26/22

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/27/2021 at 3:09 PM and does not time. The NFHL and effective information may change or

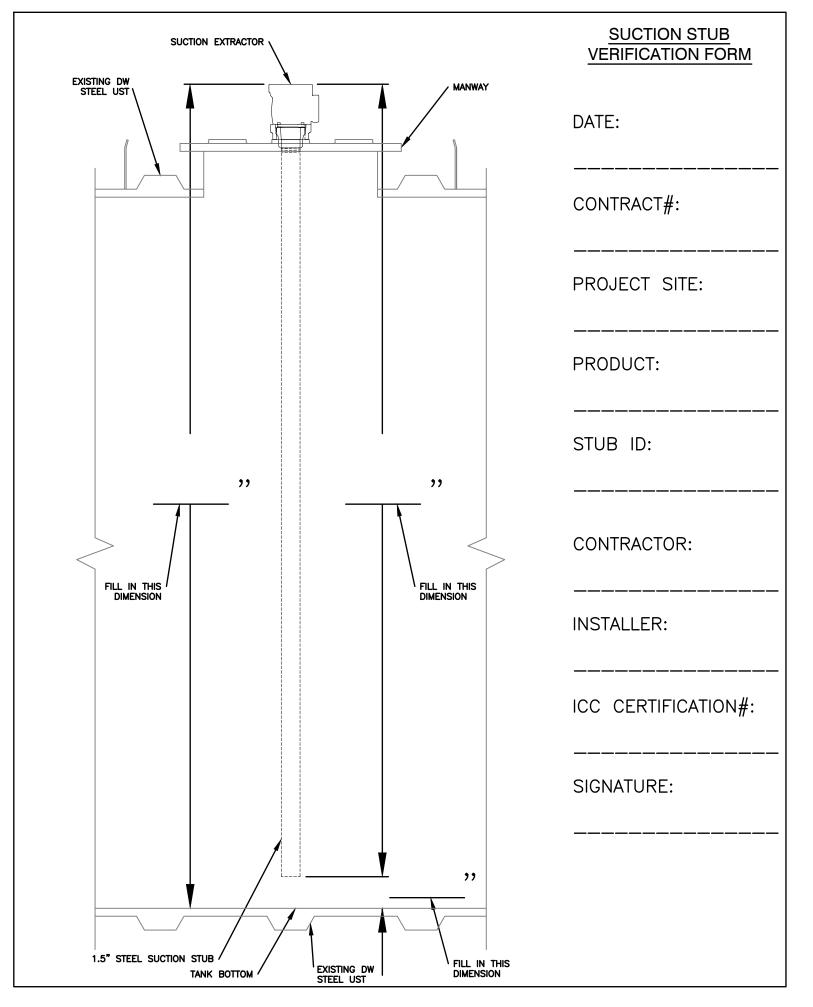
legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for

reflect changes or amendments subsequent to this date and This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels,

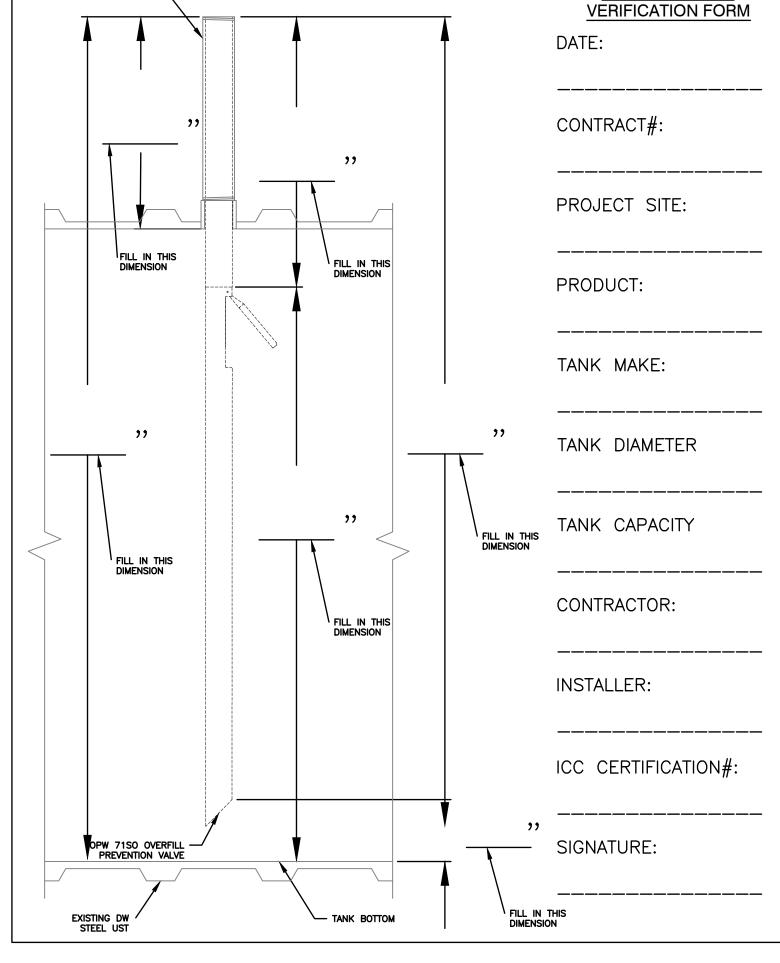
unmapped and unmodernized areas cannot be used fo

680 PEVERLY HILL RD

PORTSMOUTH, NH 03801



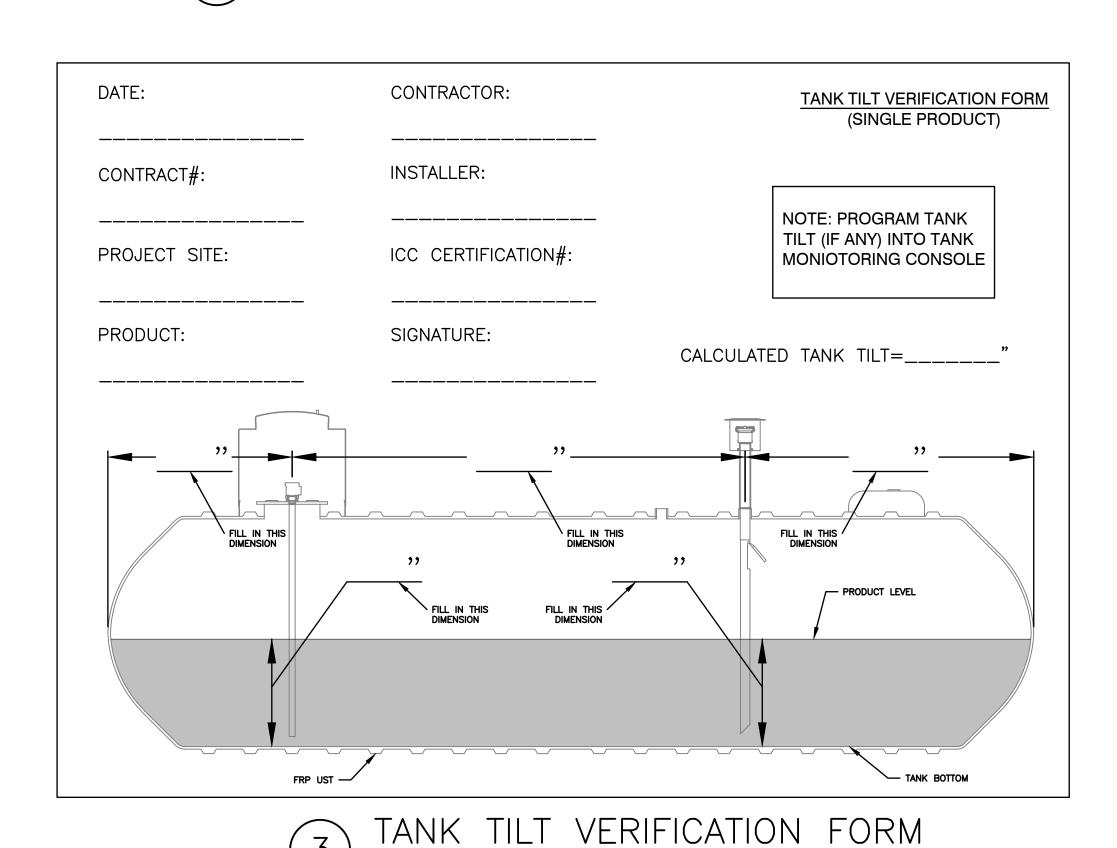
NOTE: VERIFICATION FORMS TO BE COMPLETED AS PART OF AS BUILT PLAN. COMPLETE EACH FORM FOR EACH UST INSTALLED.



OVERFILL VALVE

SUCTION STUB VERIFICATION FORM

SCALE: N.T.S.

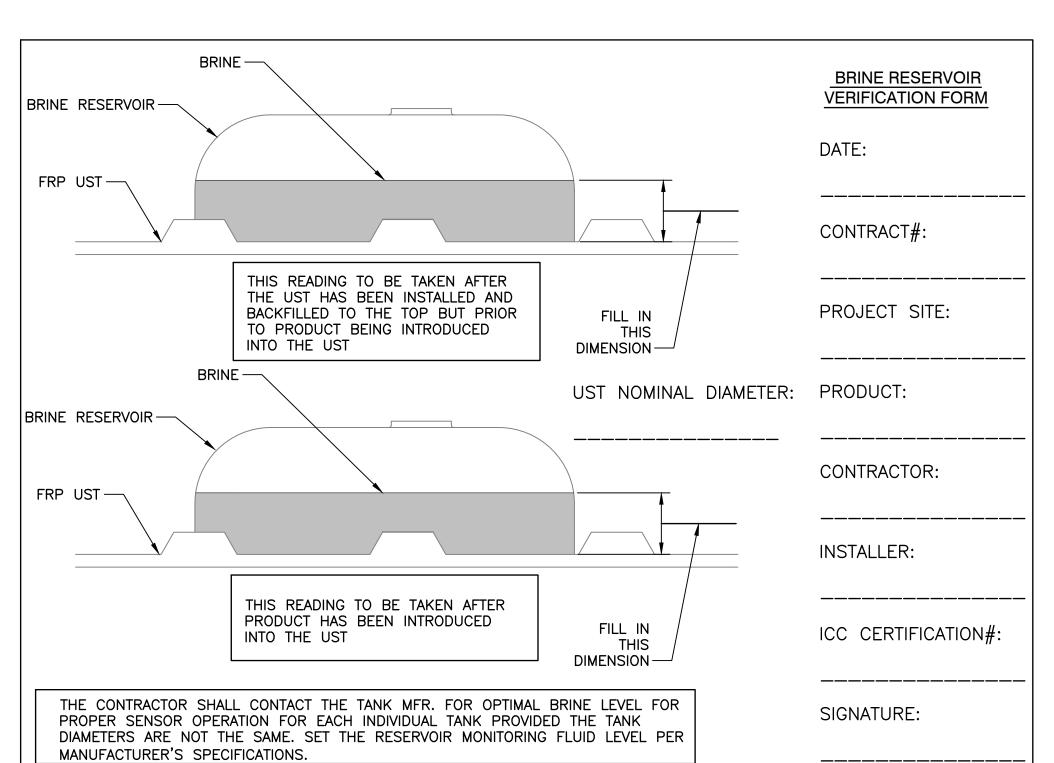


BRINE LEVEL VERIFICATION FORM

SCALE: N.T.S.

OVERFILL PREVENTION VALVE VERIFICATION FORM

SCALE: N.T.S.



Stantec

Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865

NHDES SITE #199706017

NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 RBL 08.26.22
RBL 05.12.22
Appd. MM.DD.YY ISSUED FOR BID ISSUED FOR NHDES PERMIT CLCRBLCLC05.12.22Dwn.Chkd.Dsgn.MM.DD.YY File Name: 1_195602217_Portsmouth-DPW_G.dwg Permit-Seal RONALD RONALD B. LAURENCE JR. NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263 Client/Project CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS **FUEL SYSTEM REPLACEMENT** 680 PEVERLY HILL RD PORTSMOUTH, NH 03801 VERIFICATION FORMS

Scale

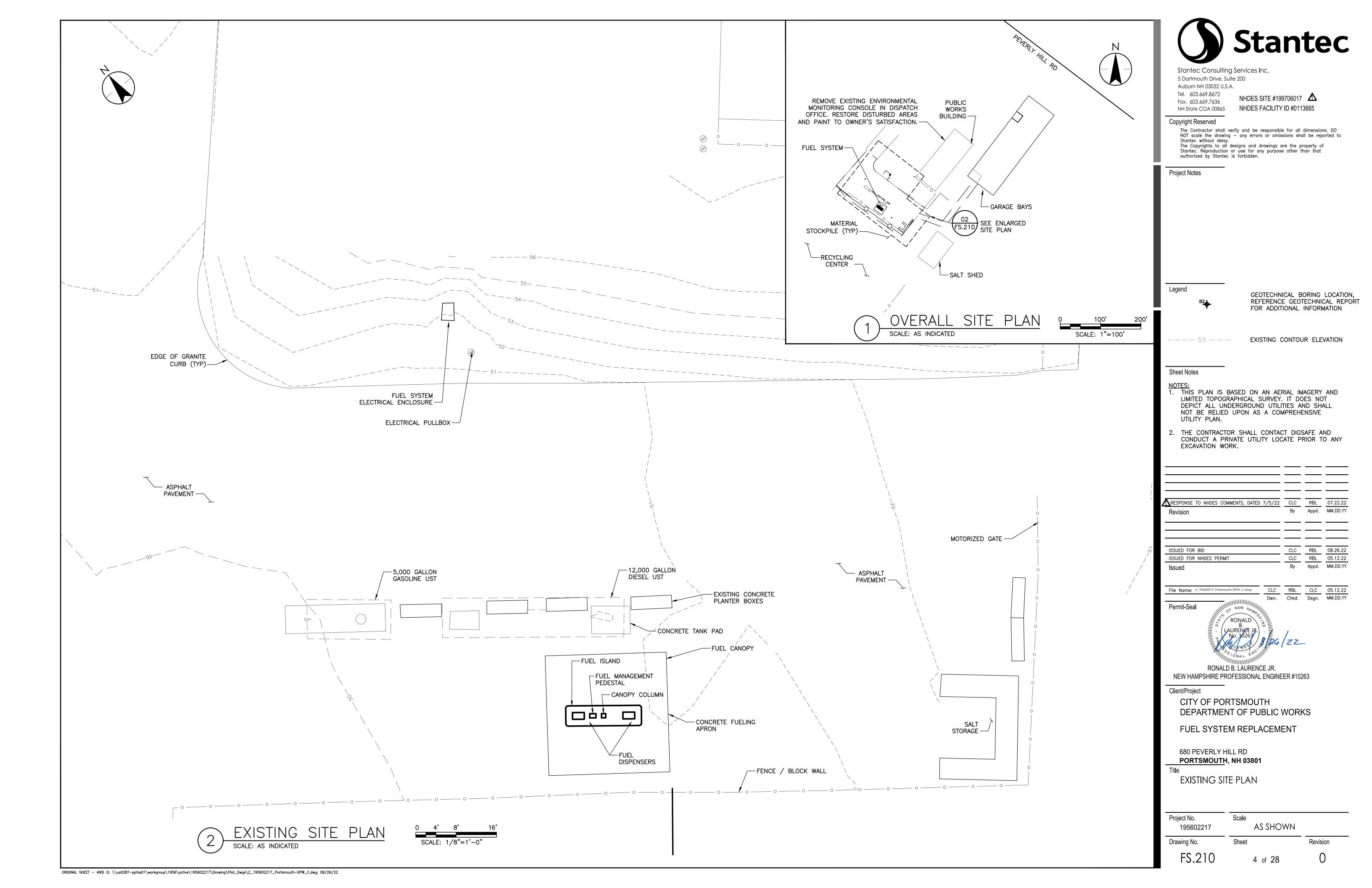
AS SHOWN

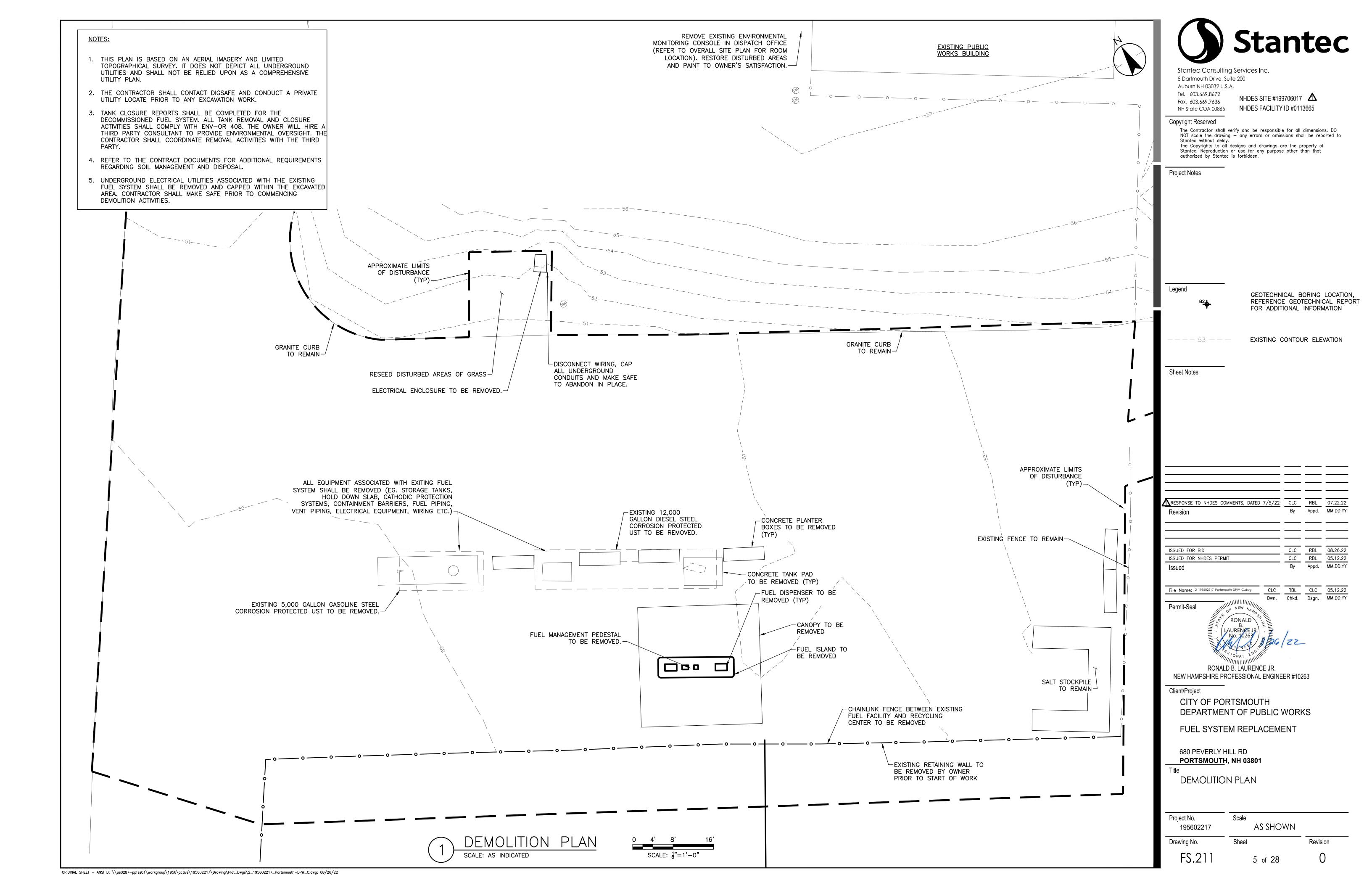
3 of 28

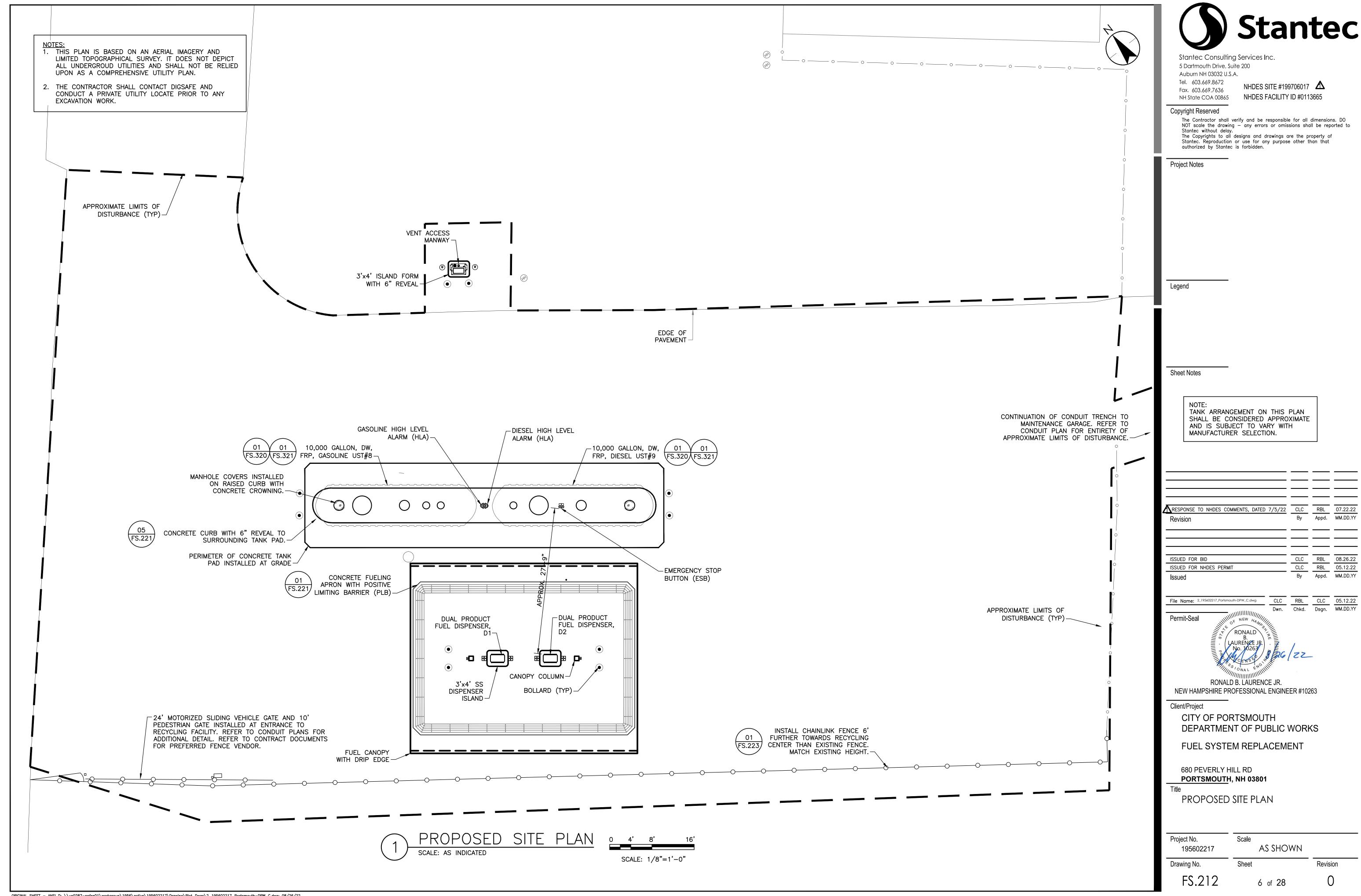
Project No.

Drawing No.

195602217





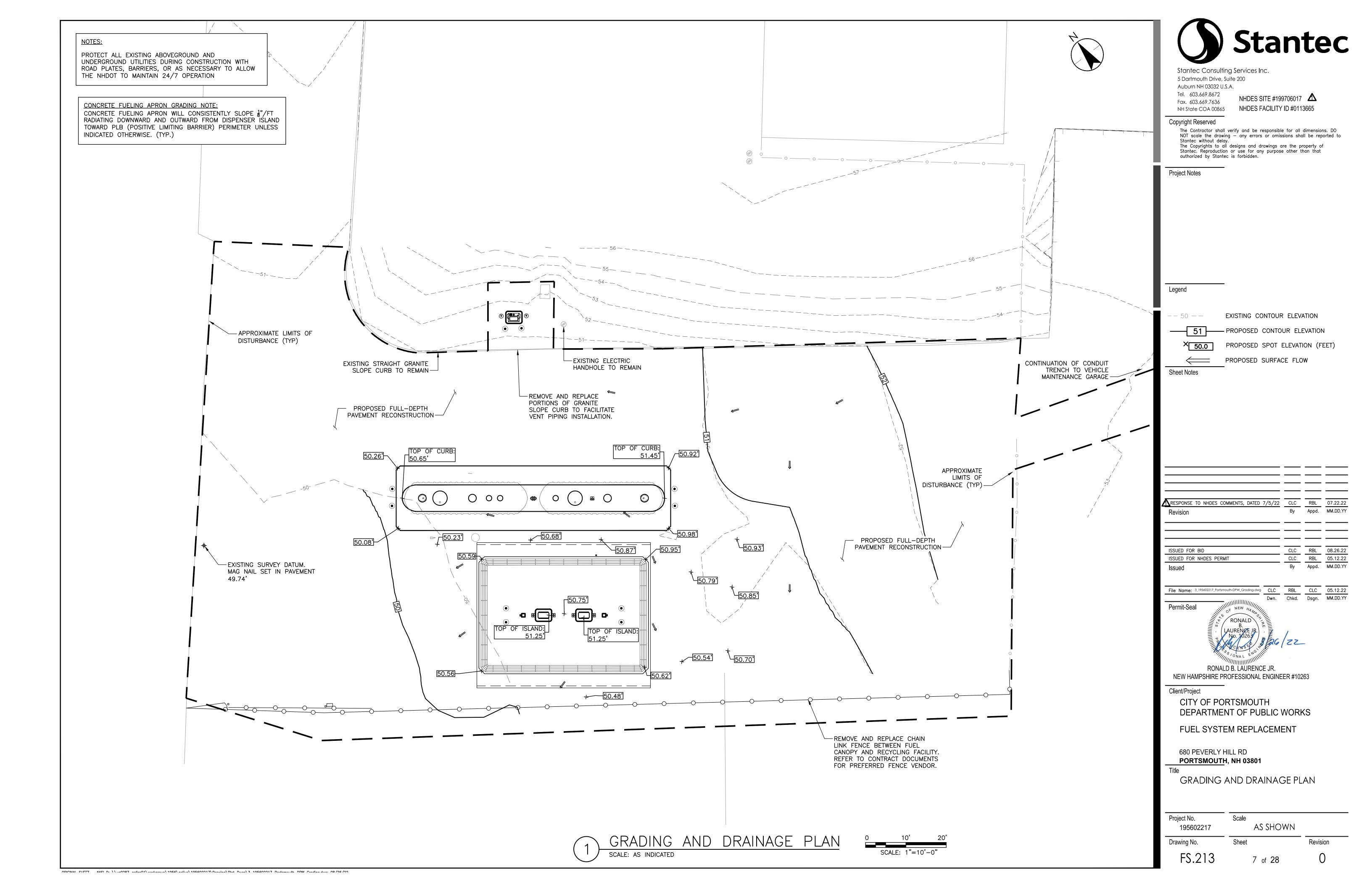


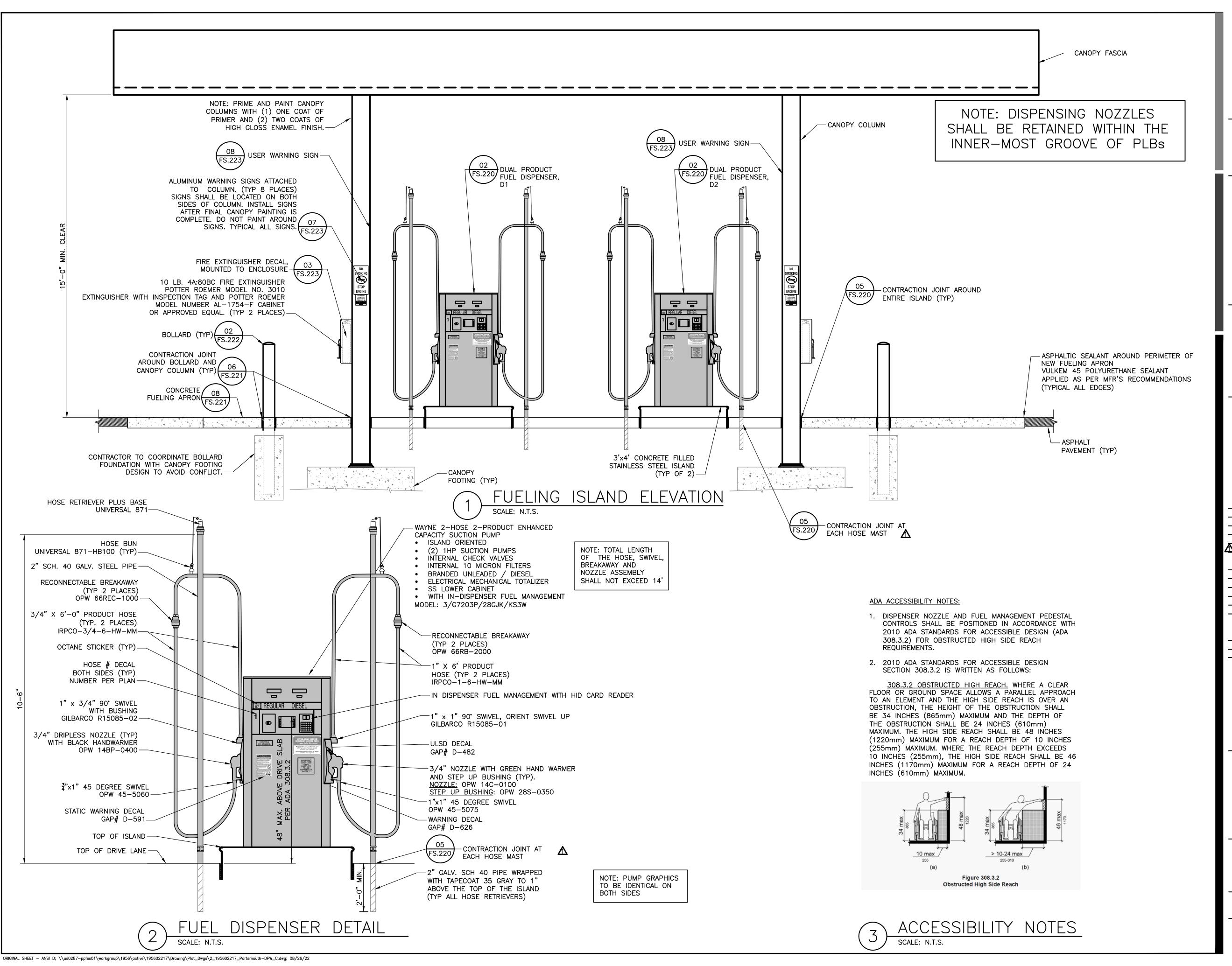
lacktriangleRESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22 By Appd. MM.DD.YY
 CLC
 RBL
 08.26.22

 CLC
 RBL
 05.12.22

 By
 Appd.
 MM.DD.YY

Revision







Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865 NHDES SITE #199706017 NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.22
Revision	Ву	Appd.	MM.DD.YY
		—	
ISSUED FOR BID	CLC	RBL	08.26.22
ISSUED FOR NHDES PERMIT	CLC	RBL	05.12.22
Issued	Ву	Appd.	MM.DD.YY
File Name: 2_195602217_Portsmouth-DPW_C.dwg CLC	RBL	CLC	05.12.22

Permit-Seal Dwn. Chkd. Dsgn. MM.DD.YY

RONALD B. LAURENCE JR. RONALD B. LAURENCE JR. RONALD B. LAURENCE JR. RONALD B. LAURENCE JR. RONALD B. LAURENCE JR.

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

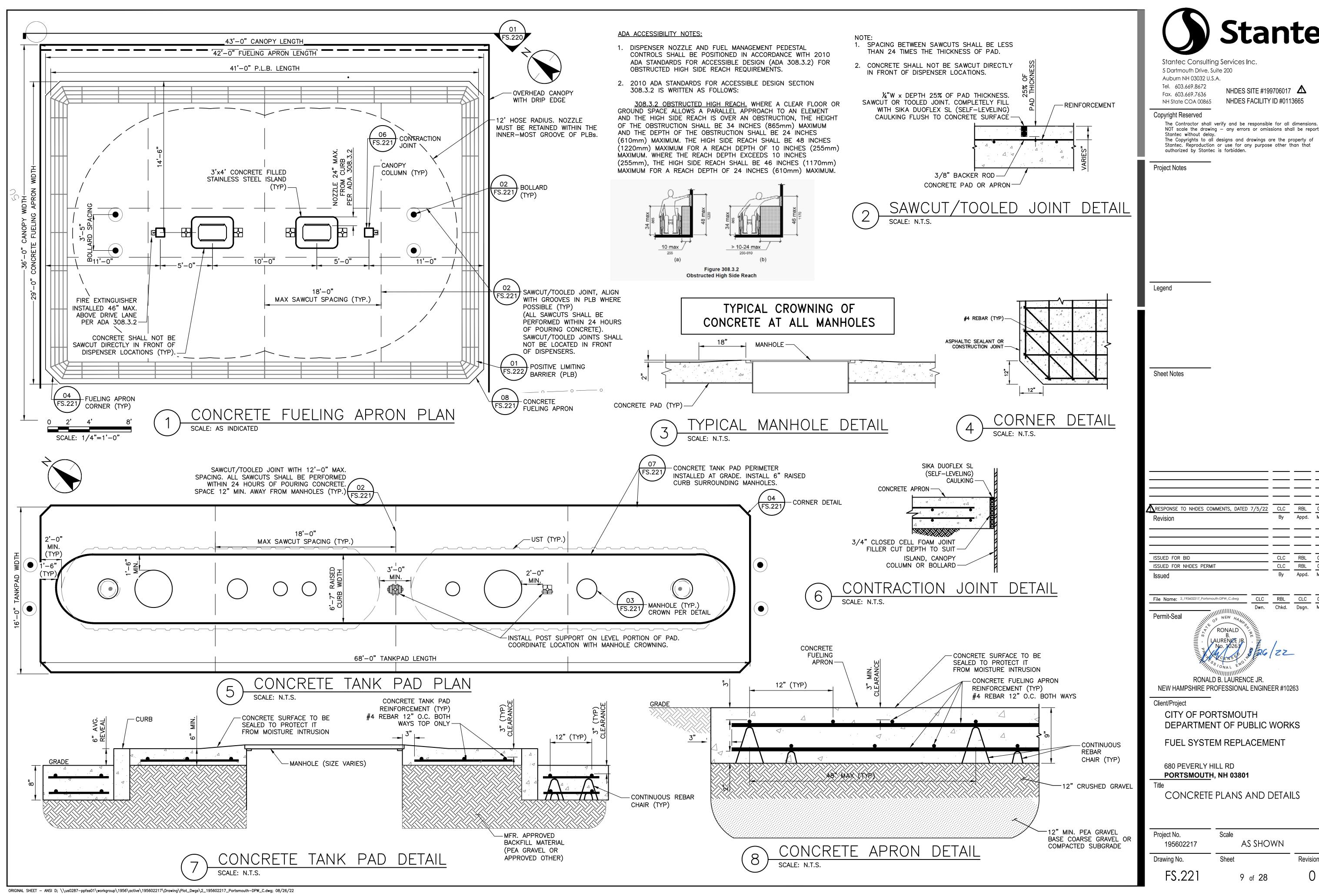
CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

DISPENSER AND FUEL ISLAND DETAILS

Project No. 195602217	Scale AS SHOWN	
Drawing No.	Sheet	Revision
FS.220	8 of 28	0

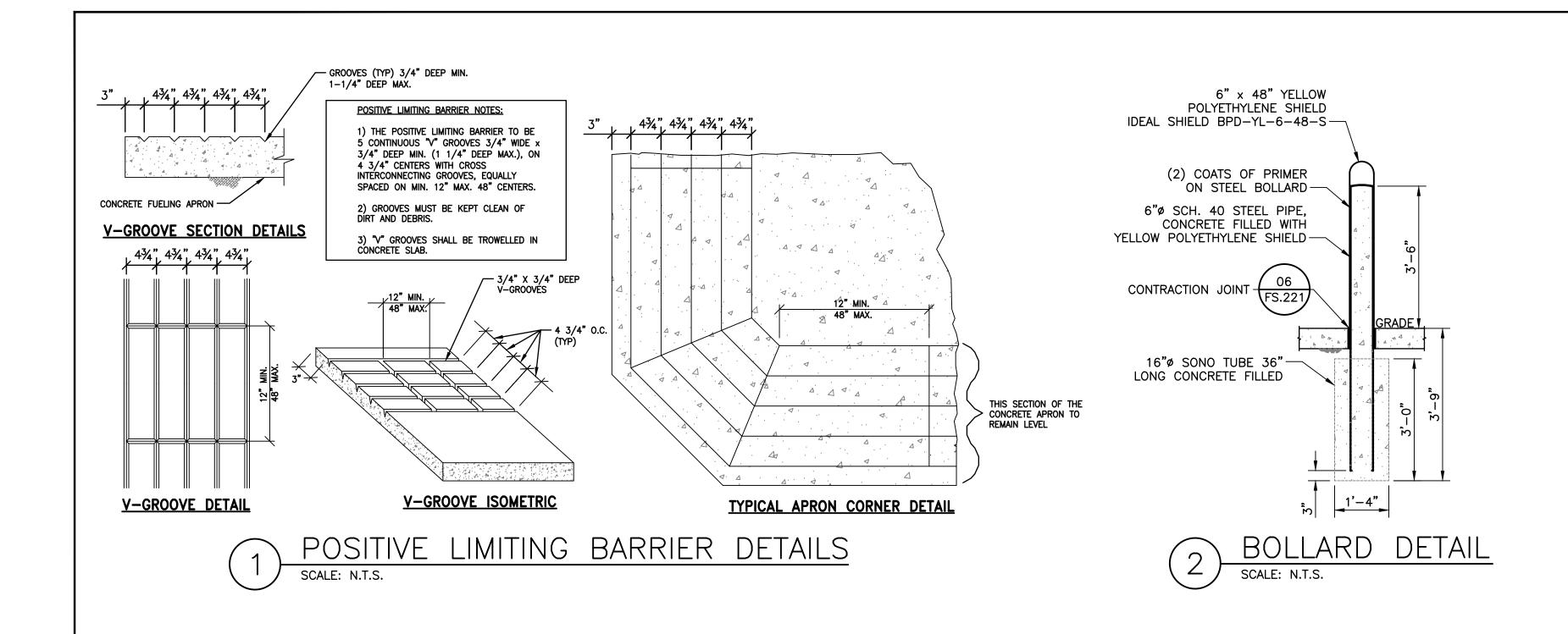


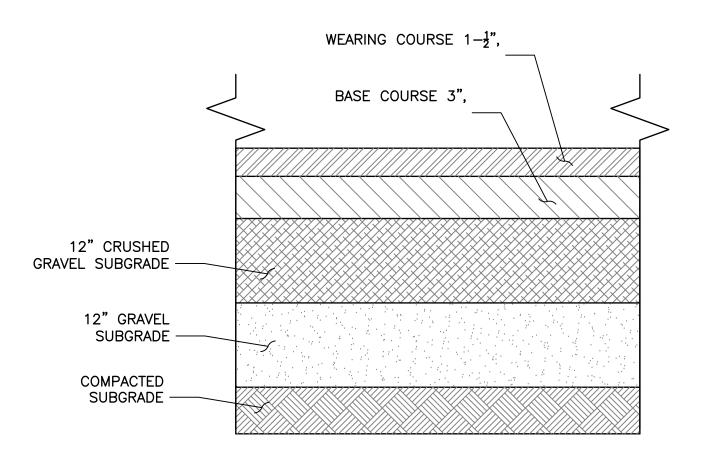
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to

By Appd. MM.DD.YY RBL 08.26.22 RBL 05.12.22 Appd. MM.DD.YY CLC RBL CLC 05.12.22

Dwn. Chkd. Dsgn. MM.DD.YY

Project No. 195602217	Scale AS SHOWN		
Drawing No.	Sheet	Revision	
FC 001	_	\circ	





- 1. ALL HOT MIX ASPHALT CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE STATE DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.
- 2. THICKNESSES SHOWN ARE TO BE CONSIDERED AS MINIMUM.
- 3. IN AREAS WHERE FULL DEPTH RECONSTRUCTION IS REQUIRED, THE EXISTING MATERIAL SHALL BE REMOVED TO ALLOW FOR INSTALLATION OF A 12" THICK LAYER OF NHDOT 304.301 (CRUSHED GRAVEL) AND A 12" THICK LATER OF NHDOT 304.201 (GRAVEL) BELOW THE BITUMINUS PAVEMENT. THE SUBGRADE SHALL BE PROOF-ROLLED AFTER THE EXCAVATION TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE AND PRIOR TO PLACEMENT OF CRUSHED GRAVEL.
- FULL DEPTH ASPHALT RESTORATION DETAIL

 SCALE: N.T.S.



Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865 NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 2_195602217_Portsmouth-DPW_C.dwg CLC RBL CLC 05.12.22

Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

RONALD B. LAURENCE JR.
SHIRE PROFESSIONAL ENGINEER #1026

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

RONALD

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

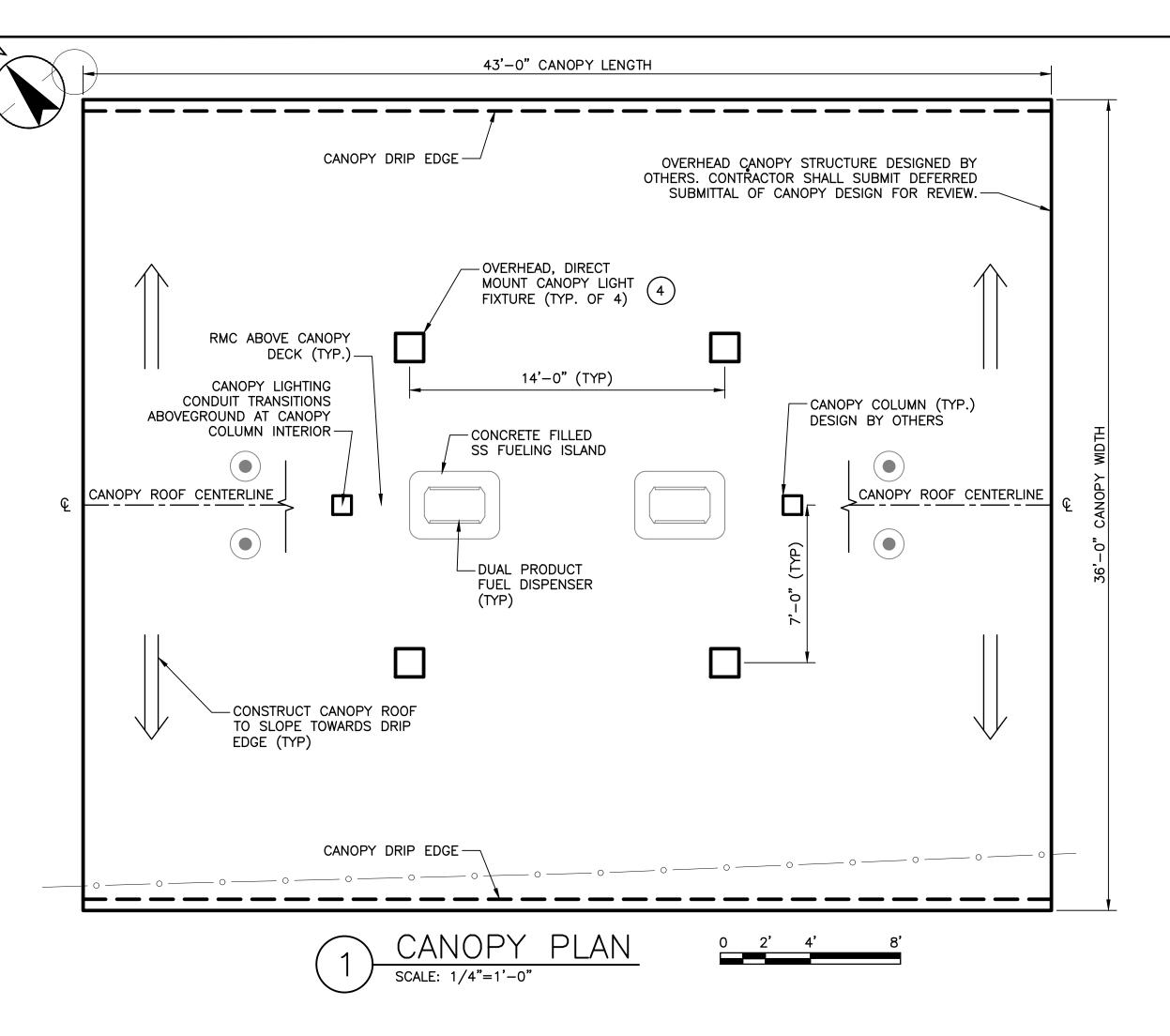
PLB, BOLLARD AND PAVEMENT DETAILS

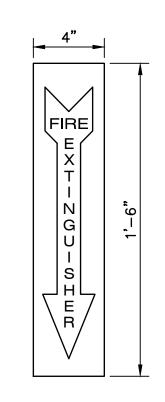
 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.222
 10 of 28
 0

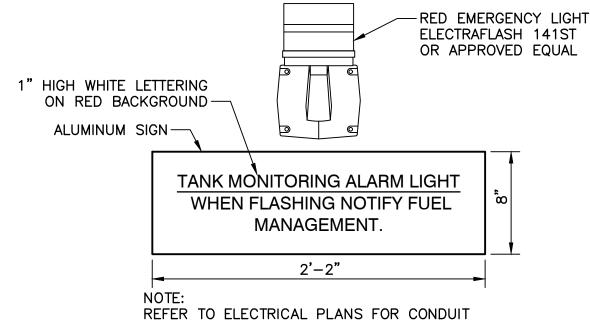




4"X18" SINGLE FACED DECAL RED BACKGROUND WITH WHITE LETTERS. (GASOLINE ADVERTISING D-27)

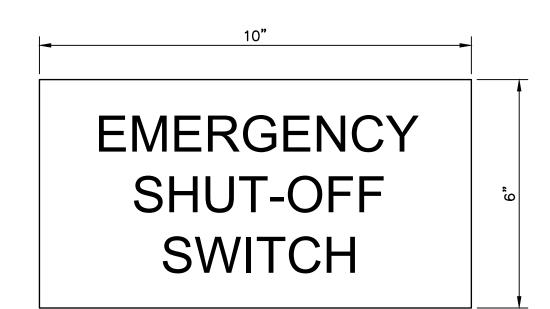
TO BE ADHERED TO SIDE OF FIRE EXTINGUISHER ENCLOSURE ON CANOPY COLUMN.

FIRE EXTINGUISHER SIGN SCALE: N.T.S.



PENETRATION DETAILS.

TANK SYSTEM MONITORING WARNING LIGHT DETAIL



10"X6" SINGLE FACED, ALUMINUM SIGN MOUNTED TO SIGN STRUCTURE. RED BACKGROUND WITH WHITE LETTERING (GASOLINE ADVERTISING # AS-54)

TO BE MOUNTED ABOVE EMERGENCY FUEL PUMP SHUT-OFF SWITCH

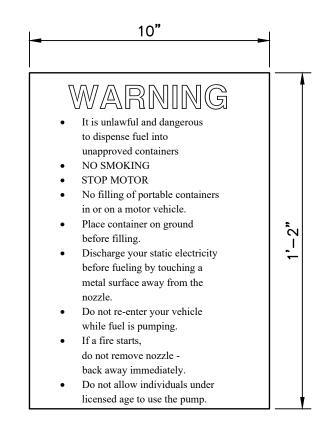
EMERGENCY SHUT-OFF SIGN

FUEL TANK HIGH LEVEL **ALARM When Horn Sounds STOP DELIVERY IMMEDIATELY Push Button Below To Silence Horn**

12"X16" SINGLE FACED ALUMINUM SIGN. WHITE BACKGROUND WITH RED LETTERS. (GASOLINE ADVERTISING # AS-46)

TO BE MOUNTED DIRECTLY ABOVE HIGH LEVEL ALARM

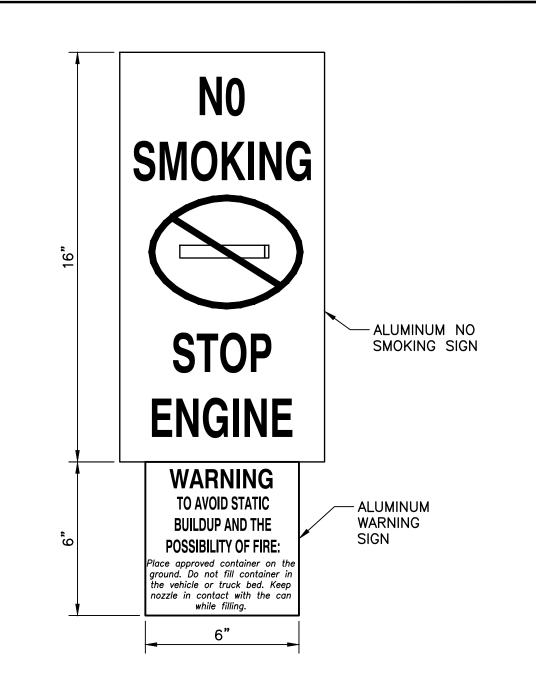
HIGH LEVEL ALARM SIGN



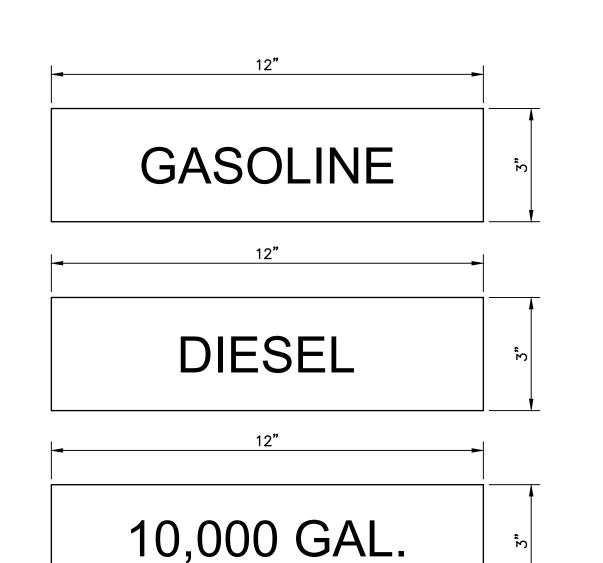
10"X14" SINGLE FACED ALUMINUM SIGN. WHITE BACKGROUND WITH RED LETTERS. (GASOLINE ADVERTISING # CAS-15-35)

MOUNTED WITHIN SIGHT OF FUELING POSITION

USER WARNING SIGN SCALE: N.T.S.



WARNING SIGN DETAIL SCALE: N.T.S.



12"X3" SINGLE FACED ALUMINUM SIGN. WHITE BACKGROUND WITH RED LETTERS. TO BE MOUNTED DIRECTLY ABOVE CORRESPONDING HIGH LEVEL ALARM SIGN

PRODUCT DESIGNATION SIGNS SCALE: N.T.S.



Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672 Fax. 603.669.7636 NHDES FACILITY ID #0113665 NH State COA 00865

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

MINOR MODIFICATION DUE TO STRUCTURAL INTERFERENCES ARE ACCEPTABLE. ADJUST ALL FIXTURES ACCORDINGLY SO THAT THE FIXTURES ARE EQUIDISTANT FROM THE CENTER AXES OF THE CANOPY.

RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.2
Revision	Ву	Appd.	MM.DD.Y
ISSUED FOR BID	CLC	RBL	08.26.2
ISSUED FOR NHDES PERMIT	CLC	RBL	05.12.2
Issued	Ву	Appd.	MM.DD.Y
File Name: 2_195602217_Portsmouth-DPW_C.dwg CLC	RBL	опе	05.12.2

Permit-Seal

RONALD B. LAURENCE JR. NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

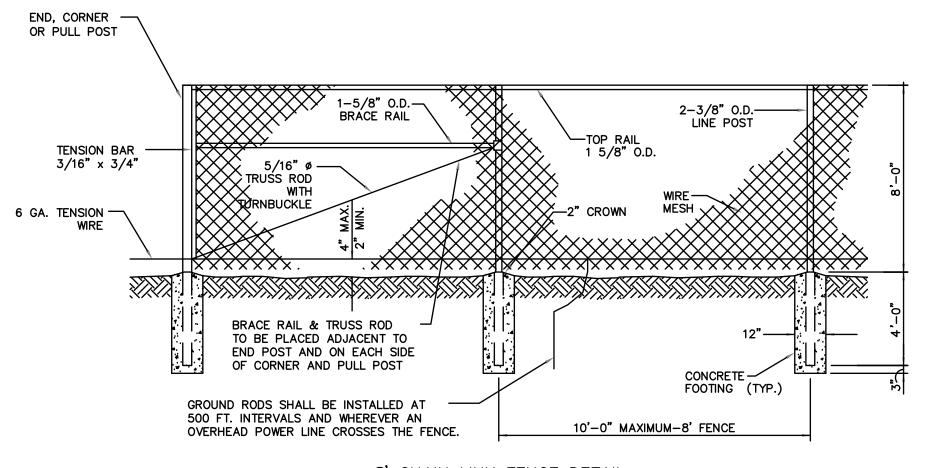
FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

CANOPY AND SIGN DETAILS

Project No. Scale AS SHOWN 195602217 Drawing No. Revision FS.223

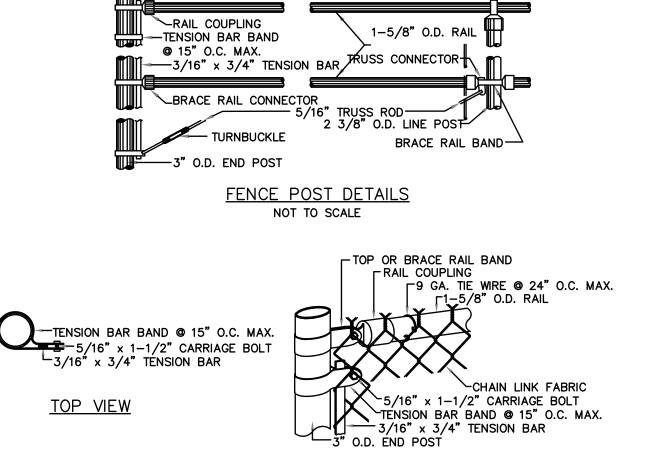
11 of 28



8' CHAIN LINK FENCE DETAIL NOT TO SCALE

NOTES:

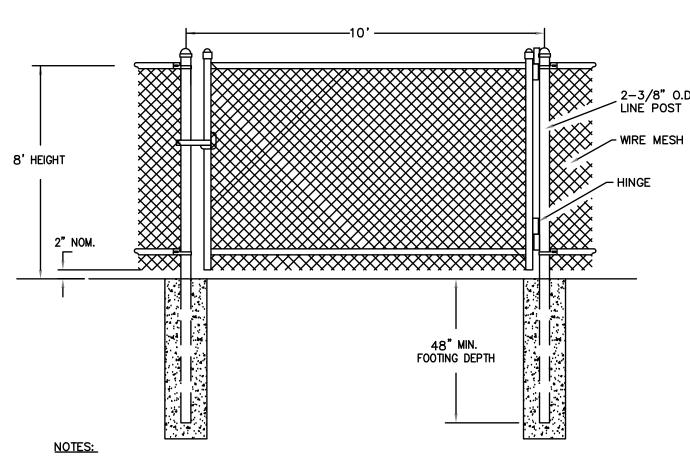
- 1. USE CLAMPS TO SECURE GROUND WIRE TO ROD AND POST.
- 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. VERIFY FENCE HEIGHT BEFORE SHOP DRAWING SUBMITTAL.



SIDE ELEVATION

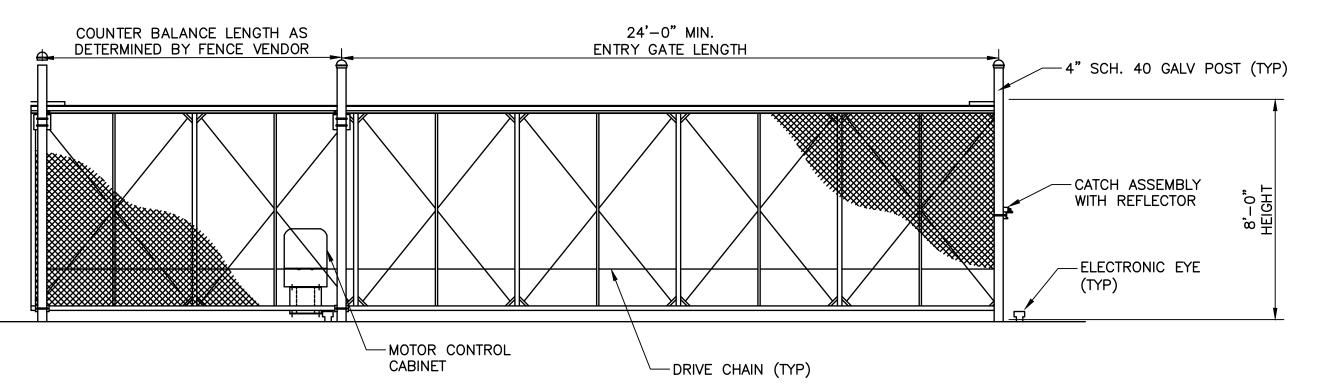
1) 8' CHAINLINK FENCE DETAIL

SCALE: N.T.S.



- 1. PROVIDE STANDARD LOCKABLE GATE.
- 2. CONNECT GROUND WIRE TO GATE POSTS ON BOTH SIDES OF GATE.
- 3. SIZE POSTS PER MANUFACTURERS RECOMMENDATIONS BASED ON GATE LENGTH.

2 CHAINLINK MAN GATE DETAIL



IMPORTANT NOTE:

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FENCING AND GATES FOR REVIEW. CONTRACTOR SHALL HIRE GC AAA FENCE AS MOTORIZED GATE VENDOR/INSTALLER. CONTRACTOR SHALL COORDINATE INSTALLATION OF FENCE AND MAN GATE WITH MOTORIZED GATE VENDOR. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL WIRING REQUIREMENTS.

GATE VENDOR CONTACT INFORMATION: ATTN: MICHAEL CARPENTER GC/AAA FENCES, INC. 294 DURHAM RD DOVER NH 03820 1-800-660-0833

MOTORIZED GATE DETAIL

SCALE: N.T.S.



Stantec Consulting Services Inc.
5 Dartmouth Drive, Suite 200
Auburn NH 03032 U.S.A.
Tel. 603.669.8672

Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865

NHDES SITE #199706017

NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 2_195602217_Portsmouth-DPW_C.dwg CLC RBL DUB 05.12.22

Permit-Seal

RONALD B.
LAURENCE JR.
No. 10263

RONALD B. LAURENCE JR.
NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

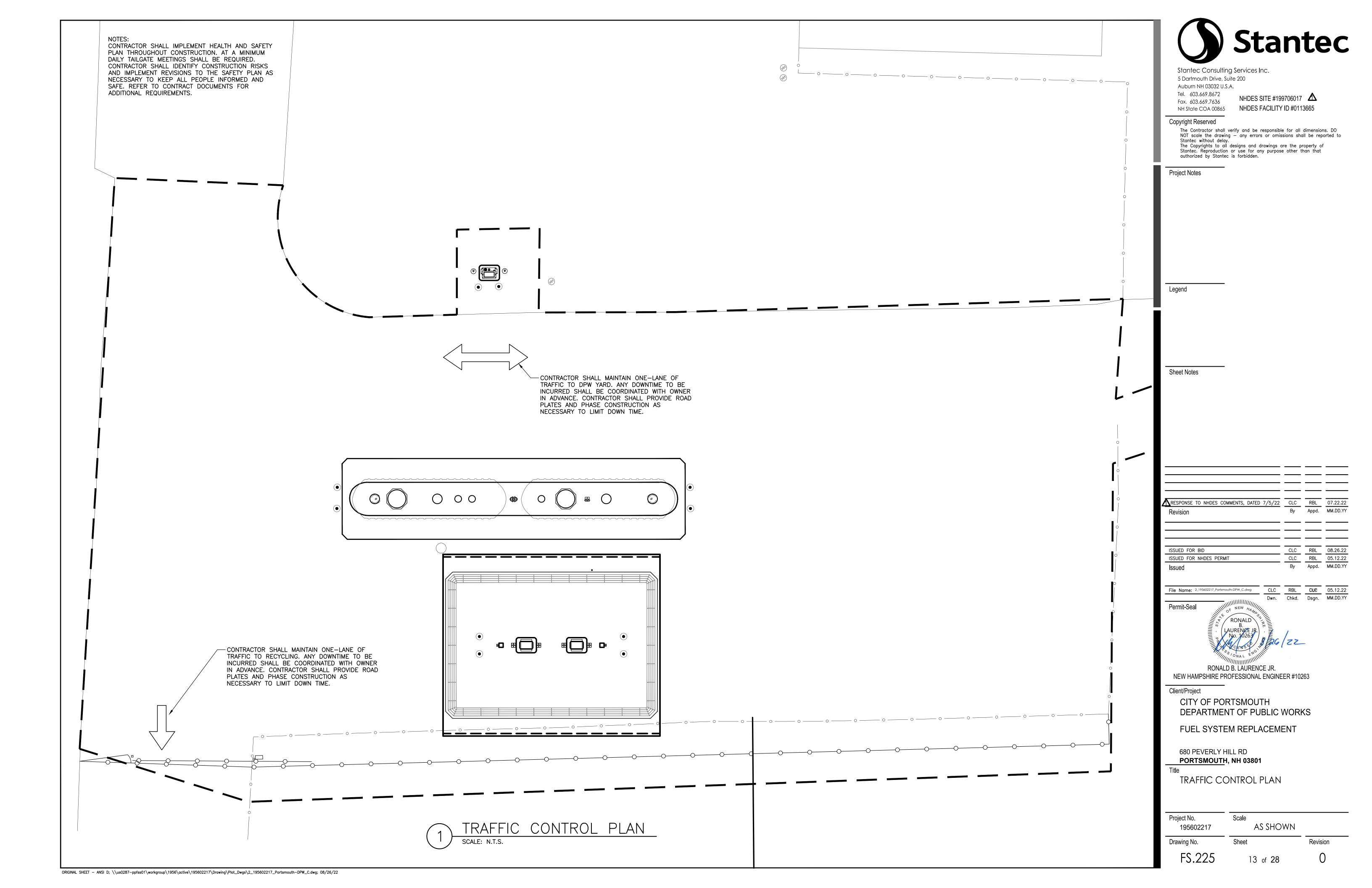
CANOPY AND SIGN DETAILS

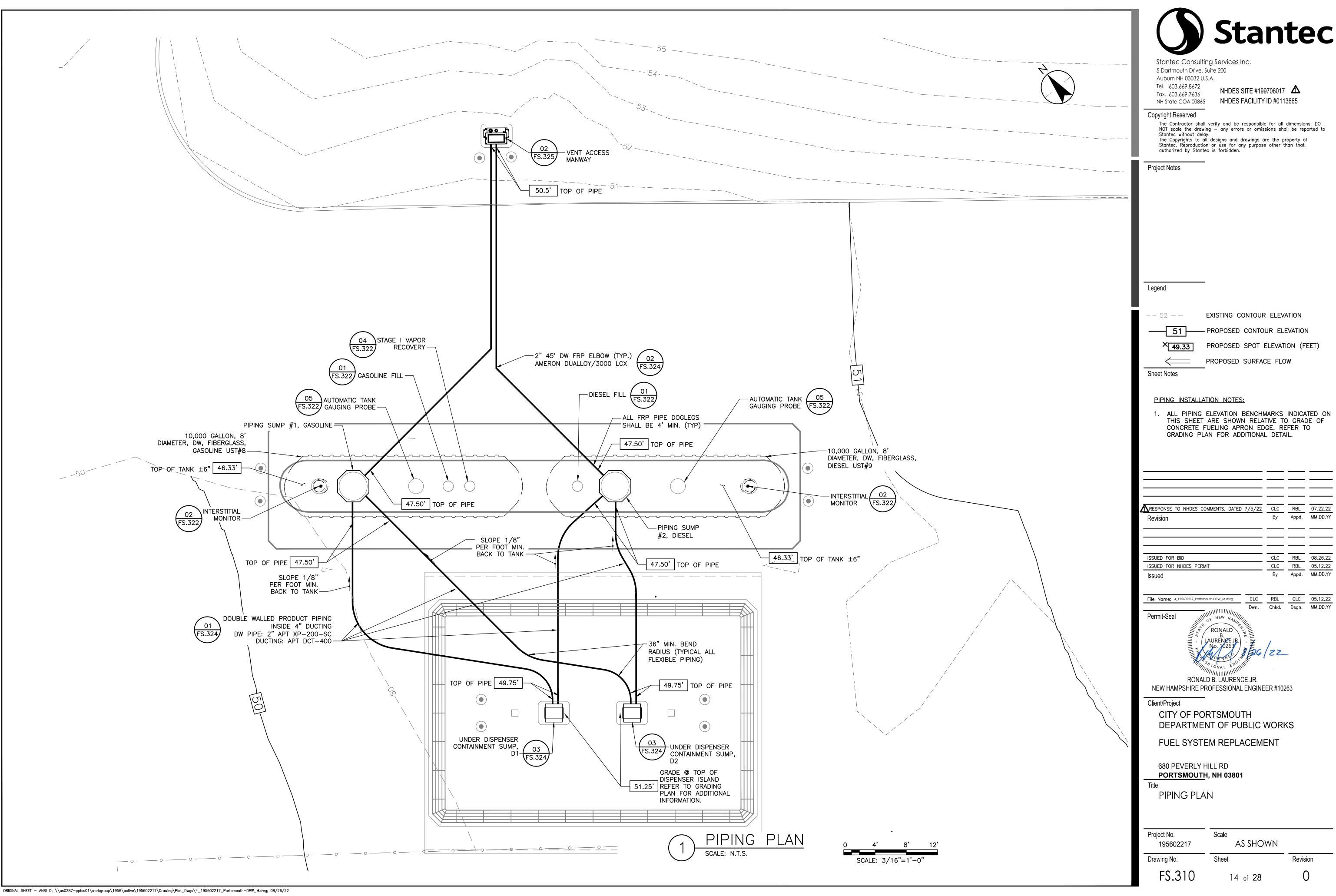
 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.224
 12 of 28
 0



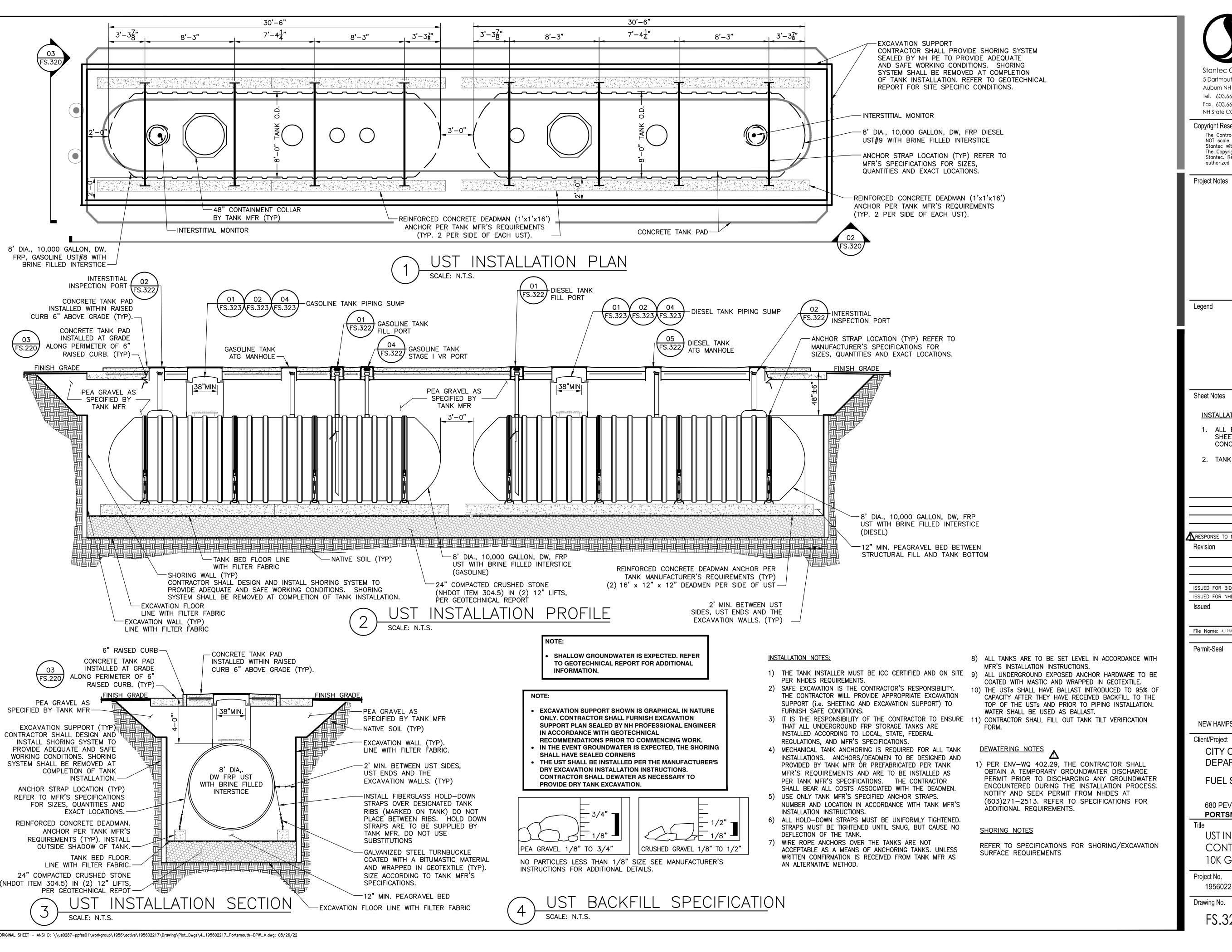


THIS SHEET ARE SHOWN RELATIVE TO GRADE OF

By Appd. MM.DD.YY
 CLC
 RBL
 08.26.22

 CLC
 RBL
 05.12.22

 By
 Appd.
 MM.DD.YY



Tel. 603.669.8672 NHDES SITE #199706017 **(A)** Fax. 603.669.7636 NHDES FACILITY ID #0113665 NH State COA 00865

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

INSTALLATION NOTES:

- ALL ELEVATION BENCHMARKS INDIACTED ON THIS SHEET ARE SHOWN RELATIVE TO GRADE OF CONCRETE FUELING APRON EDGE.
- 2. TANK PAD SHALL HAVE A 3" REVEAL.

RESPONSE TO NHDES COMMENTS, DATED 7	/5/22	CLC	RBL	07.22.22
Revision	70722	Ву	Appd.	MM.DD.YY
		_	_	
ISSUED FOR BID ISSUED FOR NHDES PERMIT		CLC	RBL	08.26.22
Issued		Ву	Appd.	MM.DD.YY
File Name: 4_195602217_Portsmouth-DPW_M.dwg	CLC	RBL	CLC	05.12.22
	Dwn	Chkd	Dean	MM DD YY

RONALD

RONALD B. LAURENCE JR. NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

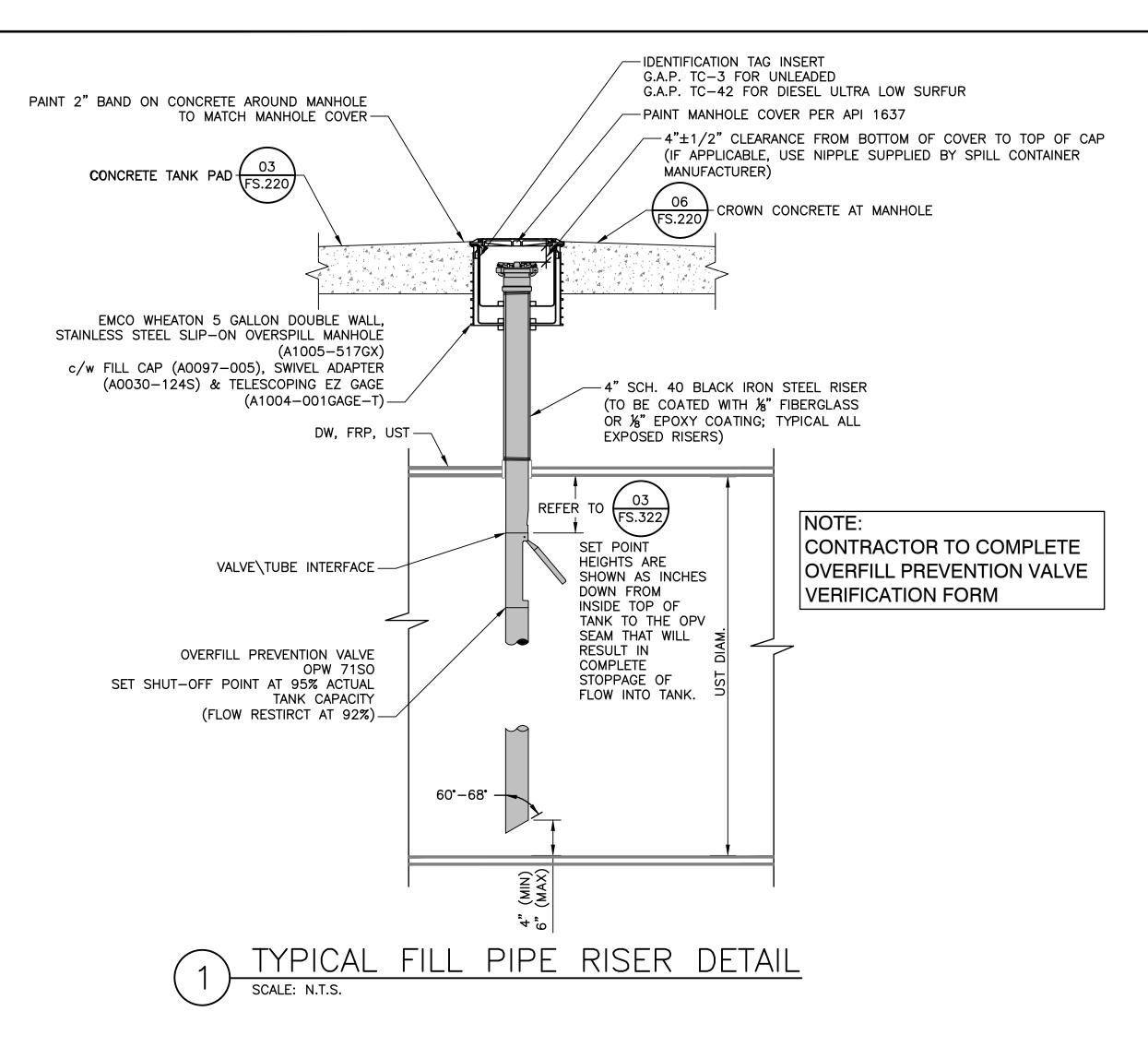
FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

UST INSTALLATION DETAILS AND NOTES CONTAINMENT SOLUTIONS 10K GAS AND DIESEL

15 of 28

Project No.	Scale	
195602217	as shown	
Drawing No.	Sheet	Revisio



10,000 (CSI) GALLONS HEIGHT 100% CAPACITY 9,696 0"

OPV SETPOINT 8,920 10-3/4"

90% CAPACITY 8,726 14-7/8"

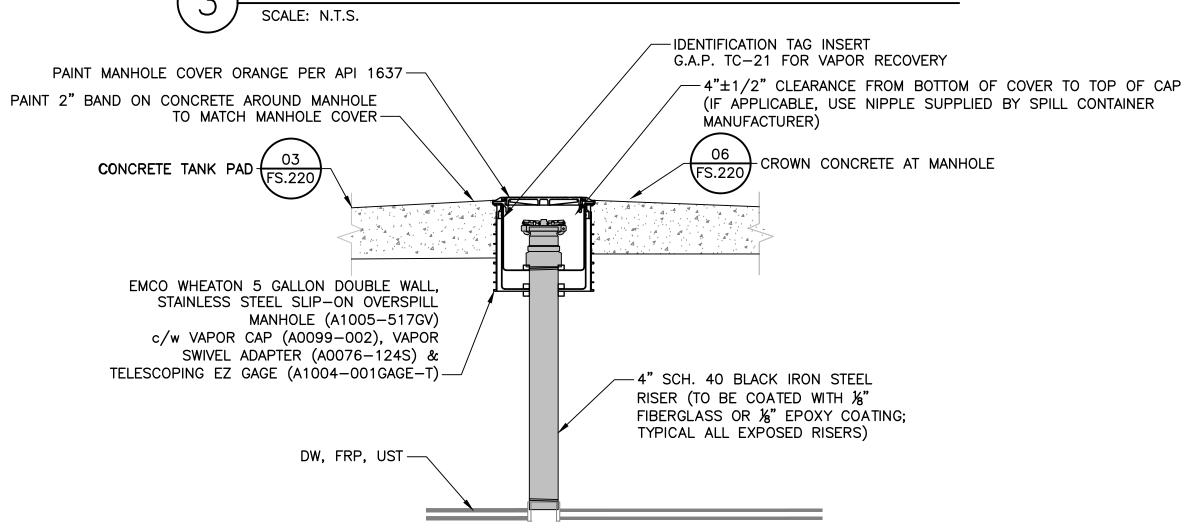
NOTE:

1. CONTRACTOR TO VERIFY ALL CALCULATIONS AND DIMENSIONS. REPORT ANY DISCREPANCIES TO THE ENGINEER

2. SET POINT HEIGHTS ARE SHOWN AS INCHES DOWN FROM INSIDE TOP OF TANK TO THE OPV SEAM THAT

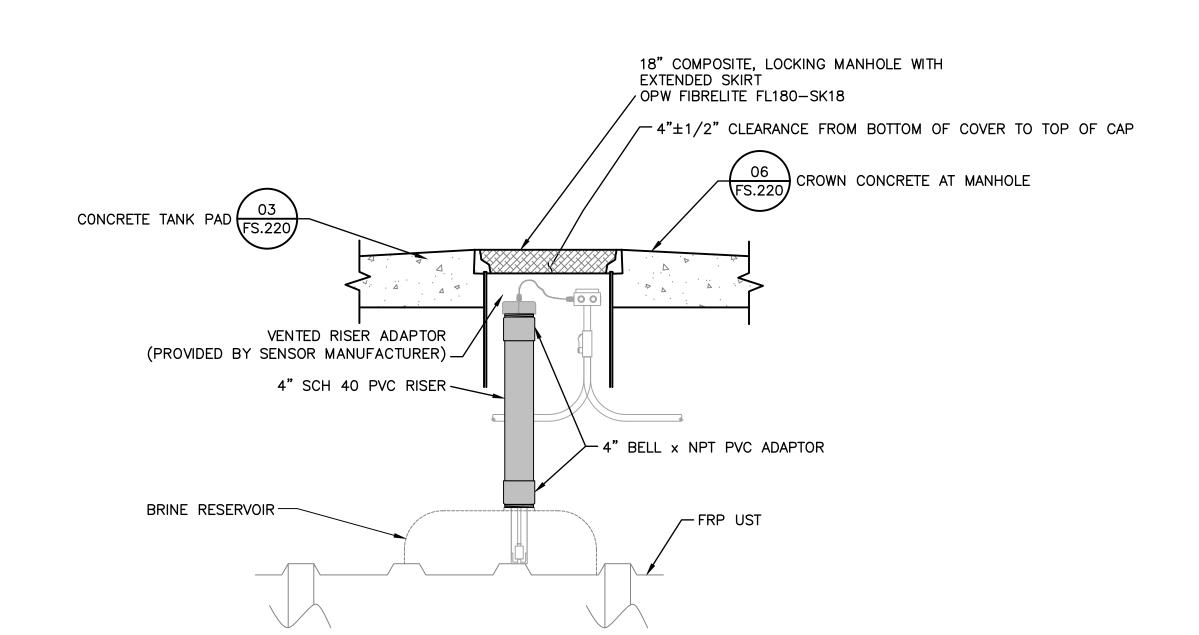
WILL RESULT IN 100% STOPPAGE OF FLOW INTO TANK.

3 HIGH LEVEL SET POINT CALCULATIONS
SCALE: N.T.S.



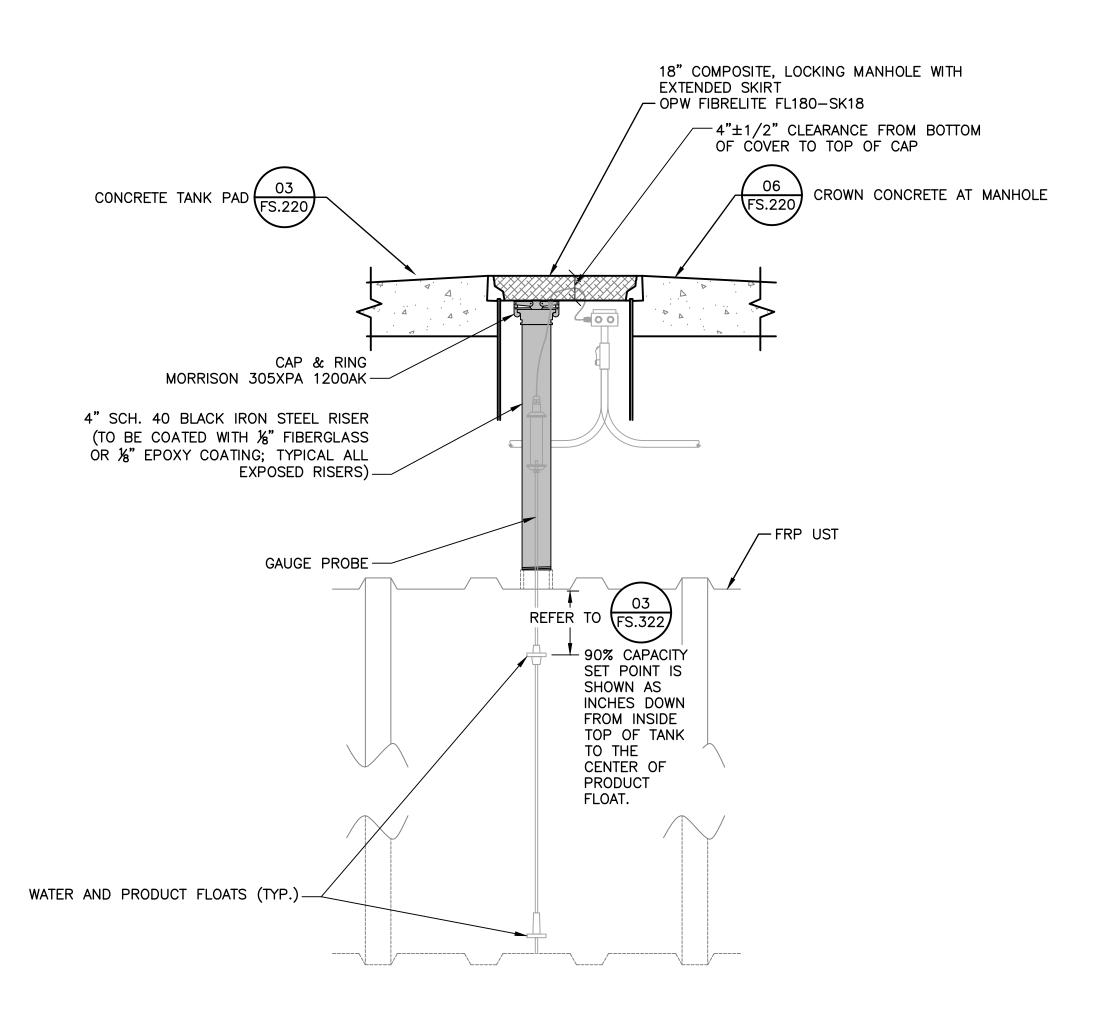
STAGE 1 VAPOR RECOVERY RISER DETAIL

SCALE: N.T.S.



TYPICAL INTERSTITIAL INSPECTION PORT RISER DETAIL

SCALE: N.T.S.



5 TYPICAL TANK GAUGE RISER DETAIL
SCALE: N.T.S.



Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A. Tel. 603.669.8672

Tel. 603.669.8672
Fax. 603.669.7636
NH State COA 00865
NHDES SITE #199706017
NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 4_195602217_Portsmouth-DPW_M.dwg CLC RBL CLC 05.12.22
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

LAURENCE JR.
No. 10263

RONALD

RONALD B. LAURENCE JR.
NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

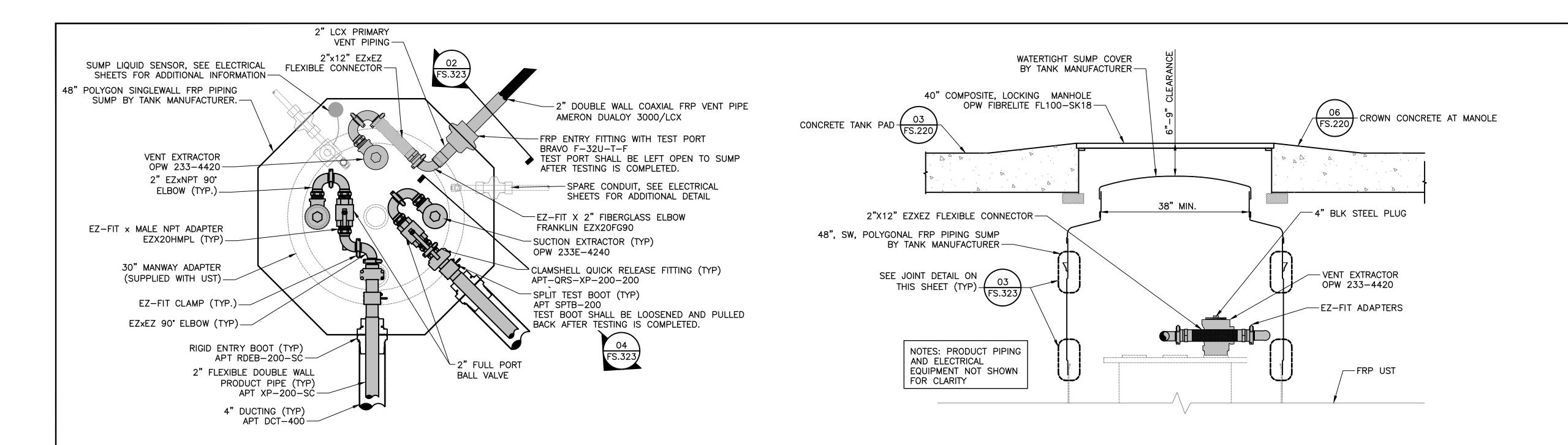
UST RISER DETAILS AND HIGH LEVEL SET POINTS

 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.322
 16 of 28
 0



TYPICAL UST SUMP PIPING PLAN

SCALE: N.T.S.

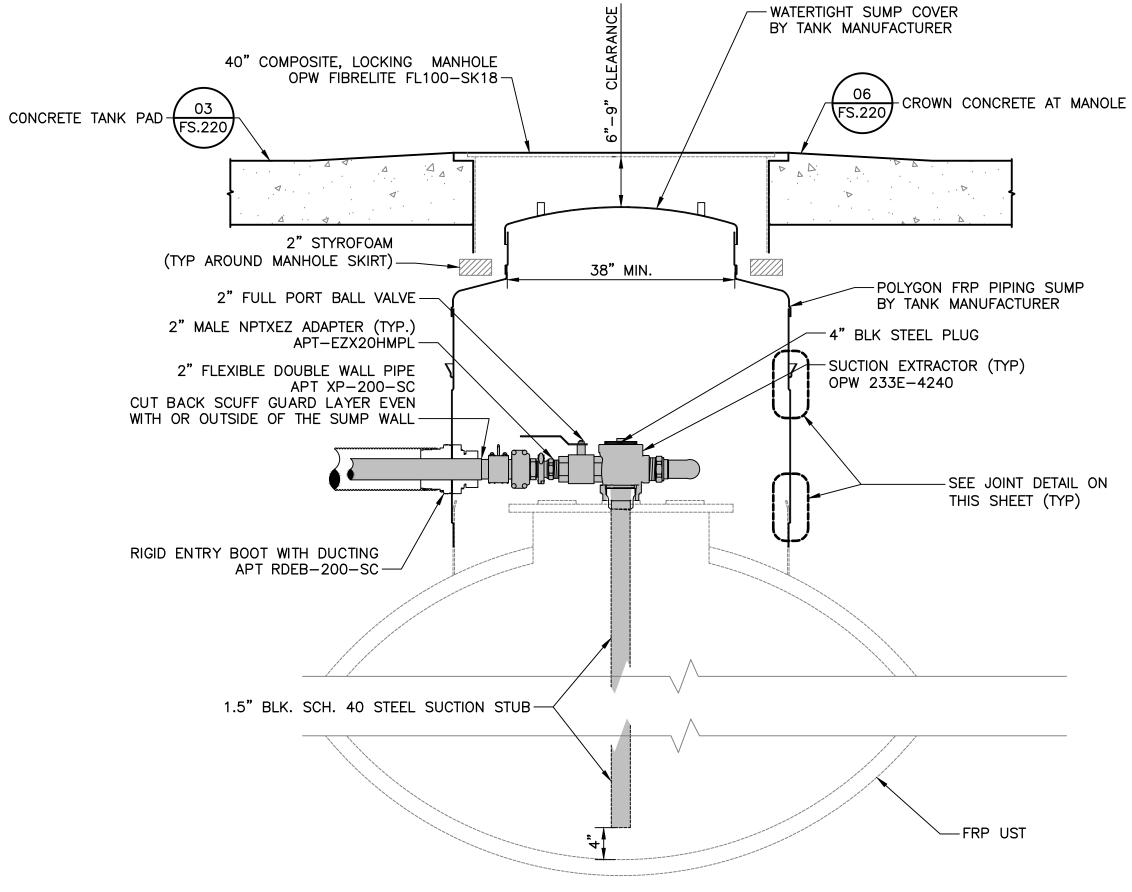
APPLY TWO LAYERS OF HEAVY
DUTY WOVEN FIBERGLASS CLOTH
AND RESIN ALONG ENTIRE
EXTERIOR CONNECTION POINT OF
THE PIPING SUMP

THE PIPING SUMP

TO THE

JOINT DETAIL FOR UST SUMP ATTACHMENTS

— COLLAR BONDED TO TANK



SCALE: N.T.S.

NOTE:
CONTRACTOR TO COMPLETE
SUCTION STUB VERIFICATION FORM

NOTE: PIPING ARRANGEMENT IN EACH SUMP MAY VARY. ALL OTHER ITEMS NOT SHOWN FOR CLARITY. REFER TO PIPING PLAN FOR PROPOSED PIPE CONFIGURATIONS.

TYPICAL UST SUMP PRODUCT PIPING DETAIL

SCALE: N.T.S.

TYPICAL UST SUMP VENT PIPING DETAIL



Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672
Fax. 603.669.7636
NH State COA 00865
NHDES SITE #199706017
NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 4_195602217_Portsmouth-DPW_M.dwg CLC RBL CLC 05.12.22

Permit-Seal

RONALD B. LAURENCE JR. RONALD B. LAURENCE JR. RONALD B. LAURENCE JR. RONALD B. LAURENCE JR.

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

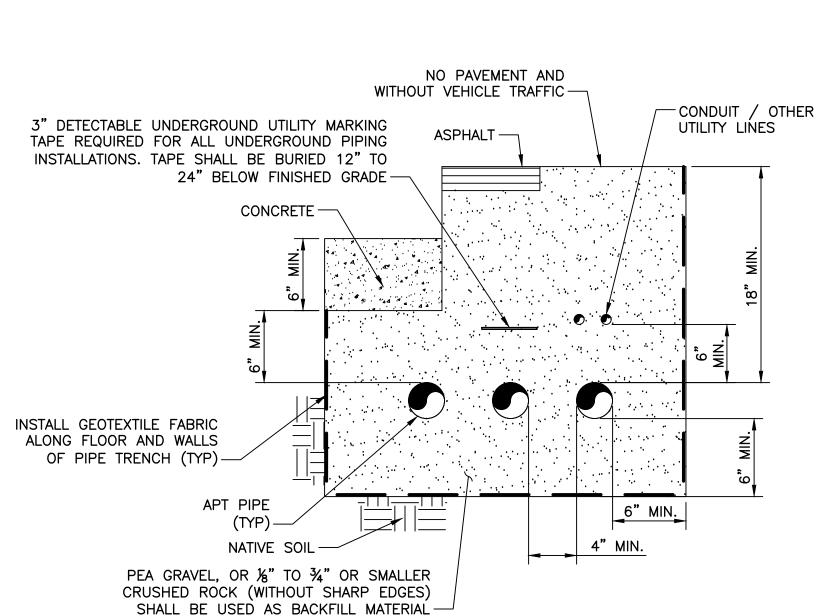
UST PIPING SUMP PLAN AND DETAILS

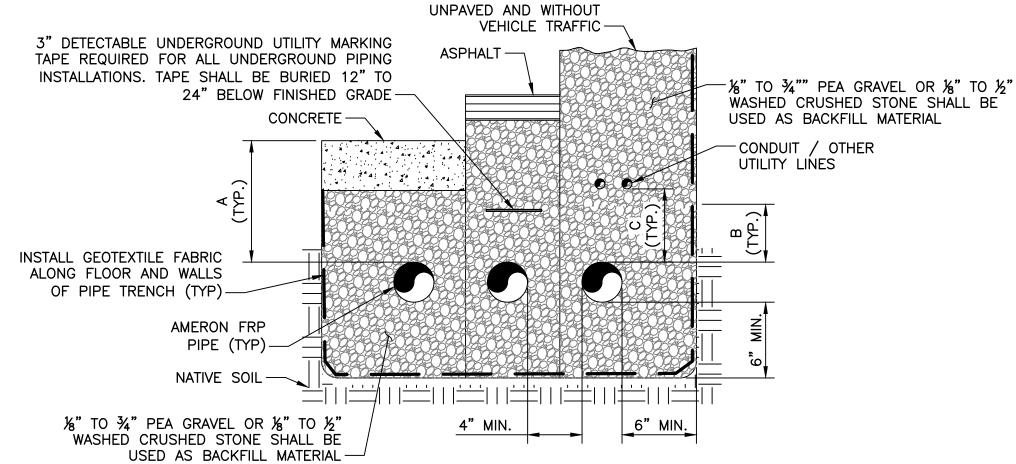
 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.323
 17 of 28
 0





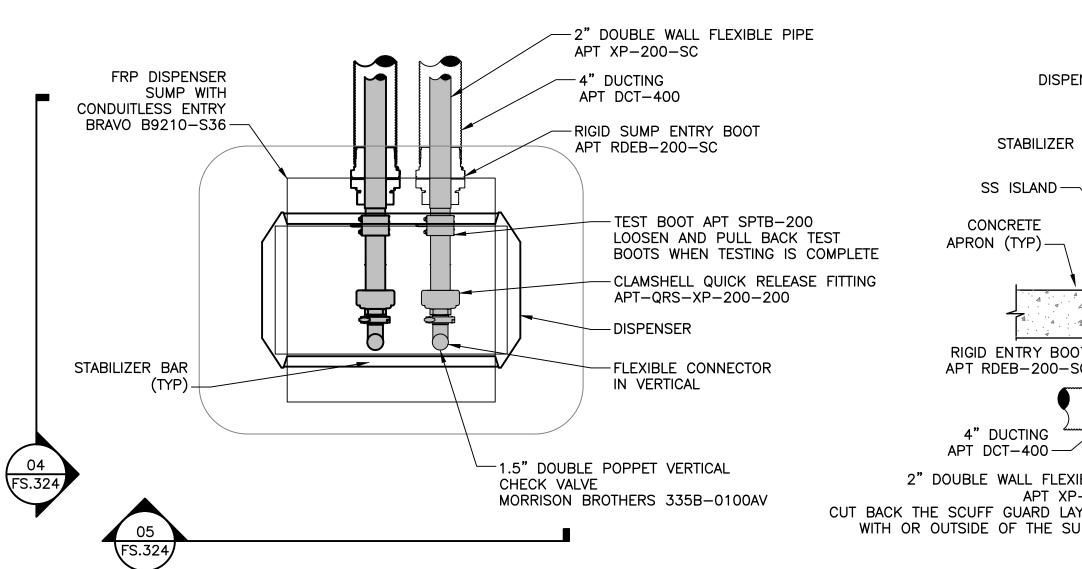
PIPE SIZE (IN.)	SURFACE CONDITION	MIN. BURIAL DEPTH 'A' (IN.)	MIN. BACKFILL 'B' (IN.)	MIN. SEPARATION "C" TO OTHER EQUIPMENT (IN.)
2	UNPAVED PAVED, MIN. 4" ASPHALT PAVED, MIN. 4" CONCRETE PAVED, MIN 6" CONCRETE	18 12 9 9	12 8 5 3	6 6 6
3	UNPAVED PAVED, MIN. 4" ASPHALT PAVED, MIN. 4" CONCRETE PAVED, MIN 6" CONCRETE	20 13 11 10	14 9 7 4	6 6 6

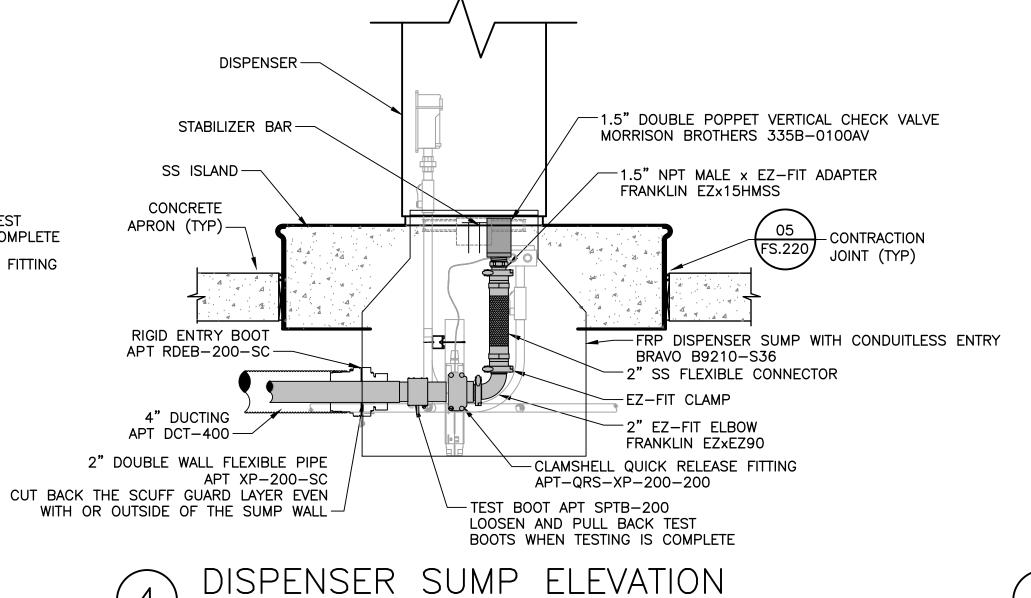
APT PIPING TRENCH DETAIL

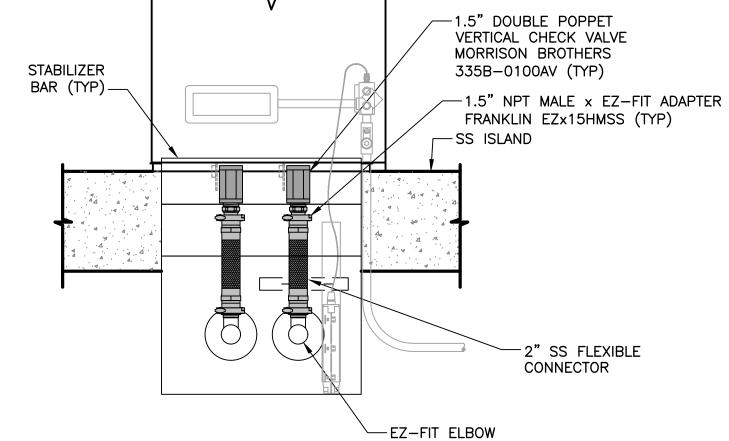
SCALE: N.T.S.

AMERON PIPING TRENCH DETAIL

SCALE: N.T.S.







5 DISPENSER SUMP ELEVATION SCALE: N.T.S.

DISPENSER -



Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865

NHDES SITE #199706017

NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 4_195602217_Portsmouth-DPW_M.dwg CLC RBL CLC 05.12.22

Permit-Seal

RONALD

B.

LAURENCE JR.

No. 10263

No. 10263

RONALD B. LAURENCE JR.
NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

PIPING TRENCH AND DISPENSER SUMP DETAILS

 Project No.
 Scale

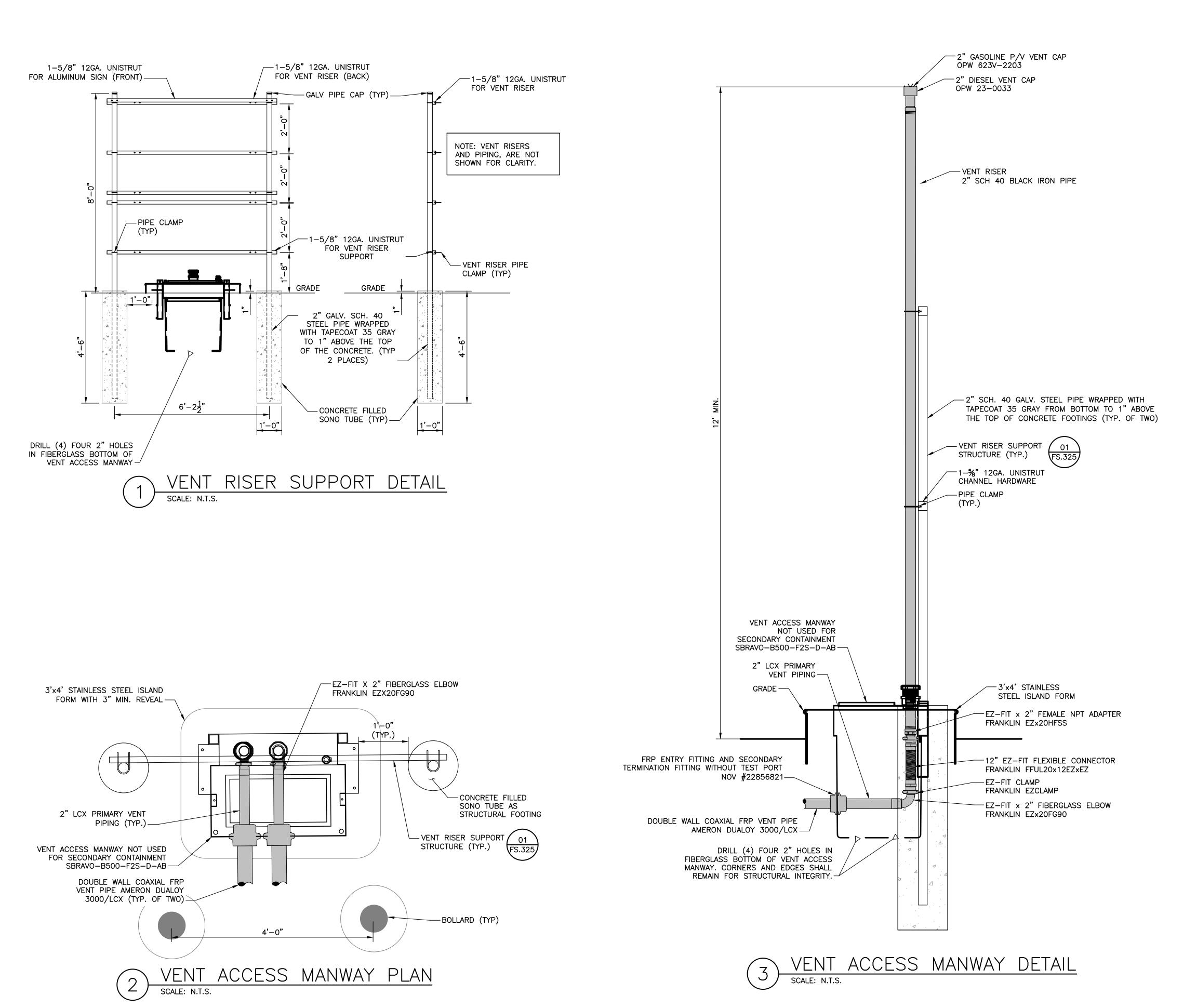
 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.324
 18 of 28
 0

SCALE: N.T.S.

DISPENSER SUMP PIPING PLAN





Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865 NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

File Name: 4_195602217_Portsmouth-DPW_M.dwg CLC RBL CLC 05.12.22
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

RONALD B. LAURENCE JR.
SHIRE PROFESSIONAL ENGINEER #1026

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

RONALD

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

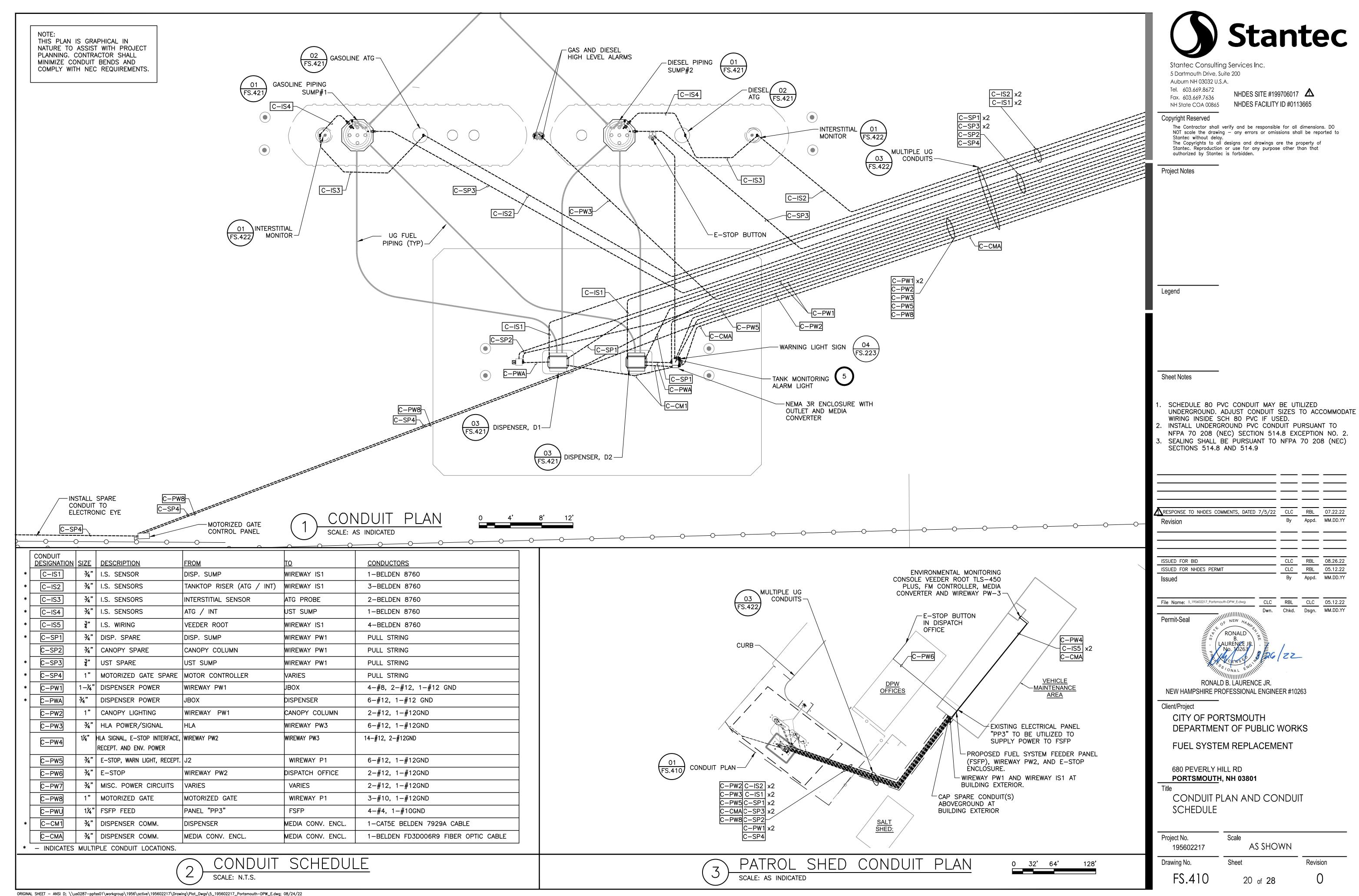
VENT RISER PIPING DETAILS

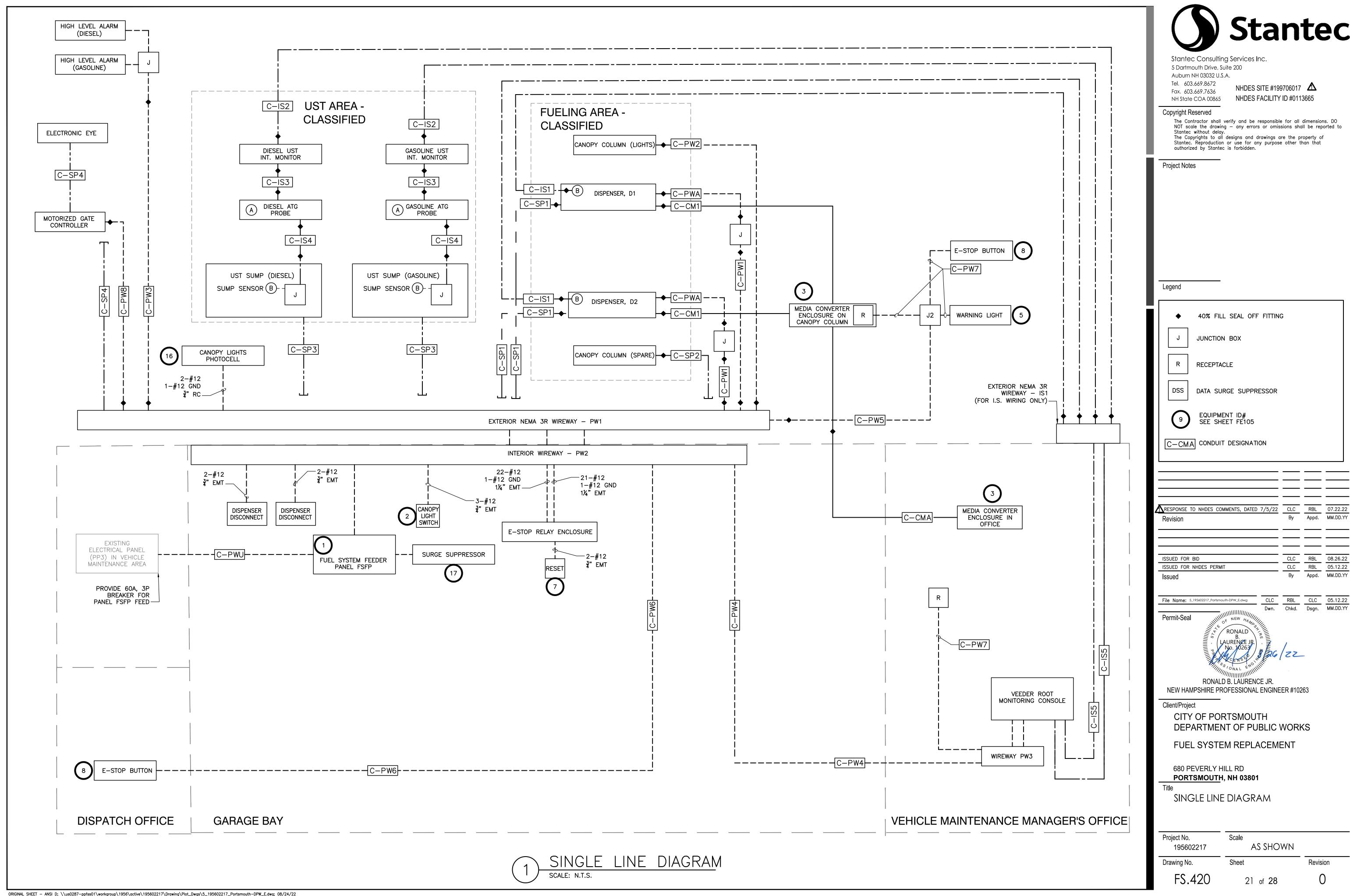
 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.325
 19 of 28
 0

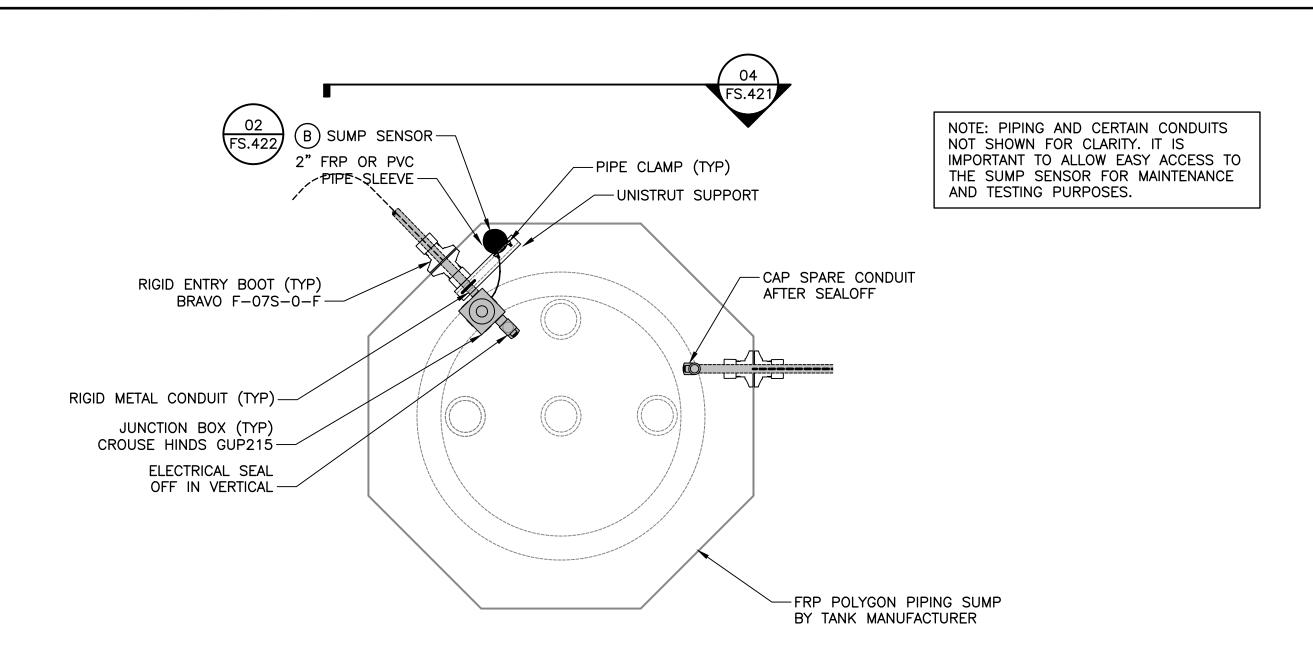




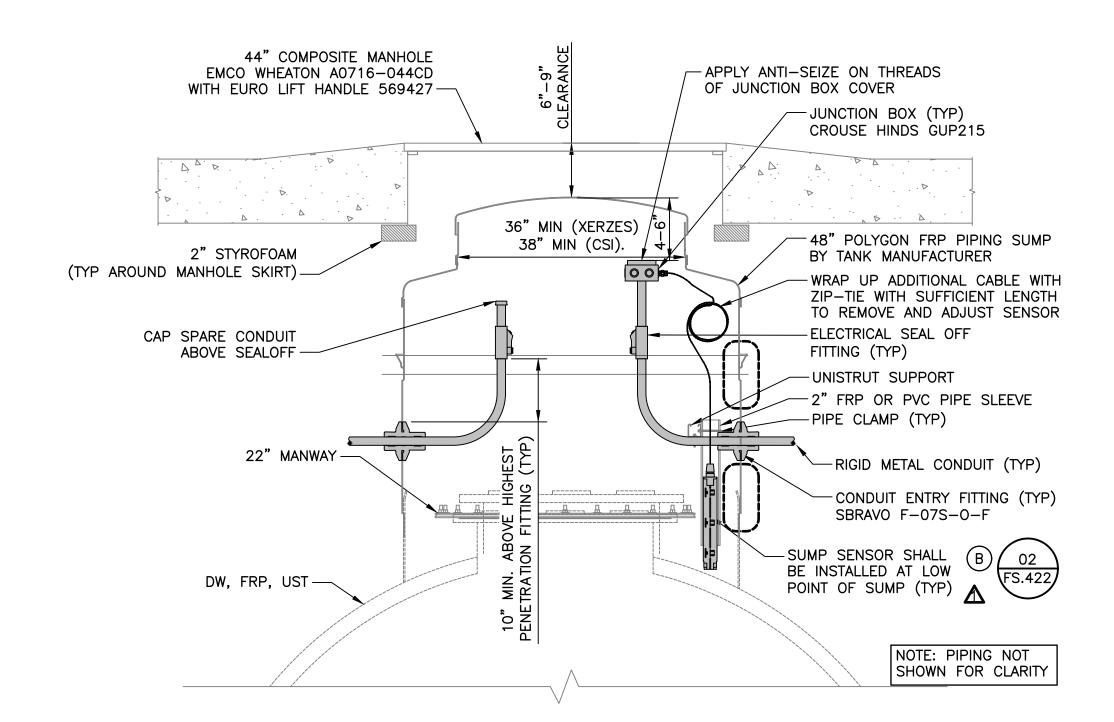


ī	♦ 40% FILL SEAL OFF FITTING
	J JUNCTION BOX
	R RECEPTACLE
	DSS DATA SURGE SUPPRESSOR
	9 EQUIPMENT ID# SEE SHEET FE105

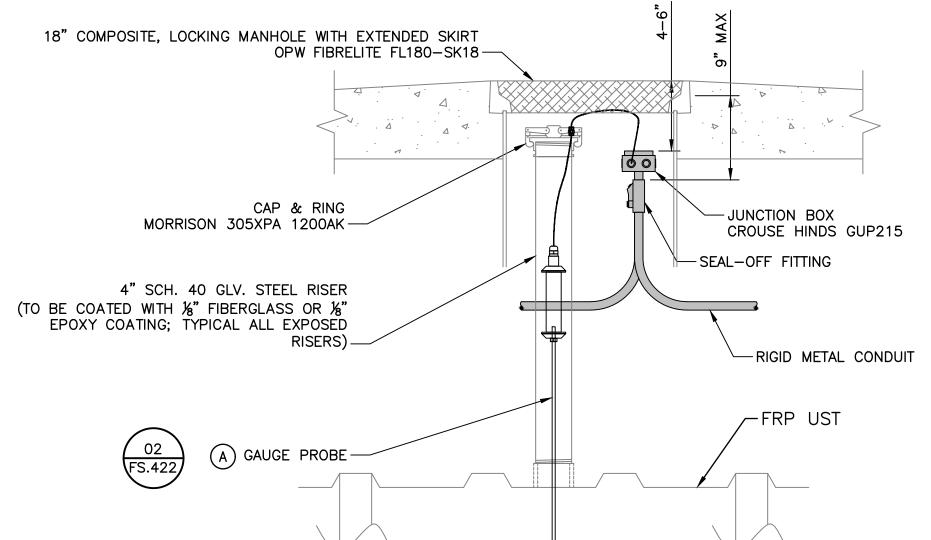
RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.2
Revision	Ву	Appd.	MM.DD.
ISSUED FOR BID	CLC	RBL	08.26.2
ISSUED FOR NHDES PERMIT	CLC	RBL	05.12.2
Issued	By	Appd.	MM.DD.



1 UST SUMP CONDUIT PLAN SCALE: N.T.S.

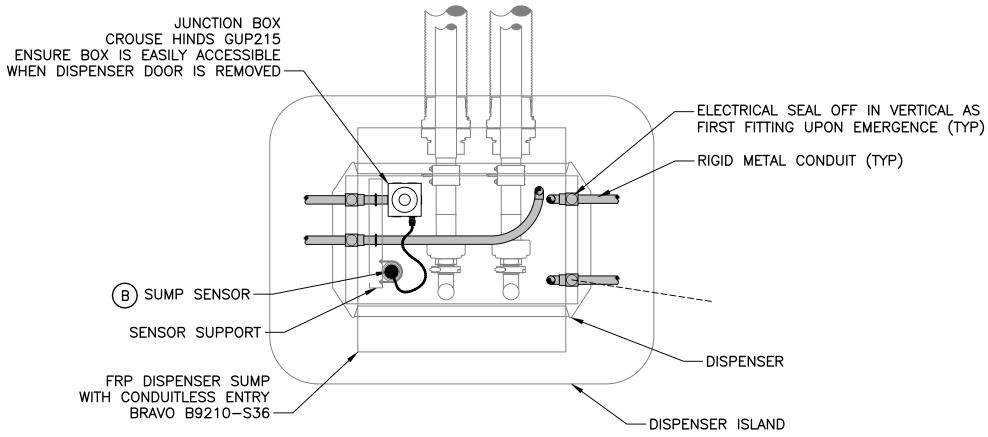


UST SUMP CONDUIT DETAIL SCALE: N.T.S.

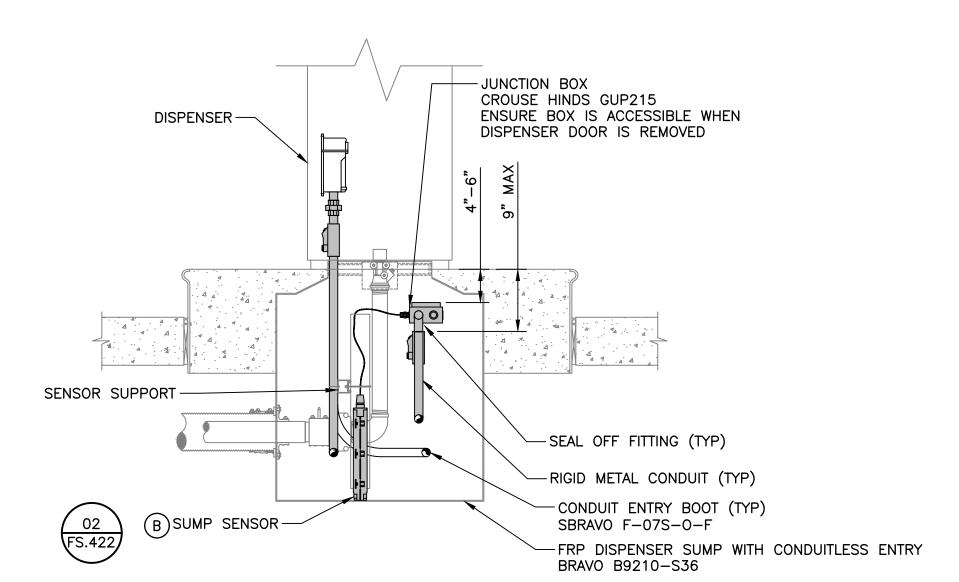


2 TANK GAUGE RISER CONDUIT DETAIL

SCALE: N.T.S.



TYPICAL DISPENSER SUMP CONDUIT PLAN SCALE: N.T.S.



5 TYPICAL DISPENSER SUMP CONDUIT DETAIL

SCALE: N.T.S.



Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672 Fax. 603.669.7636 NH State COA 00865 NHDES SITE #199706017 NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22
Revision By Appd. MM.DD.YY

ISSUED FOR BID CLC RBL 08.26.22
ISSUED FOR NHDES PERMIT CLC RBL 05.12.22
Issued By Appd. MM.DD.YY

RONALD B.
LAURENCE JR.
No. 10263

RONALD B. LAURENCE JR.
NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD
PORTSMOUTH, NH 03801

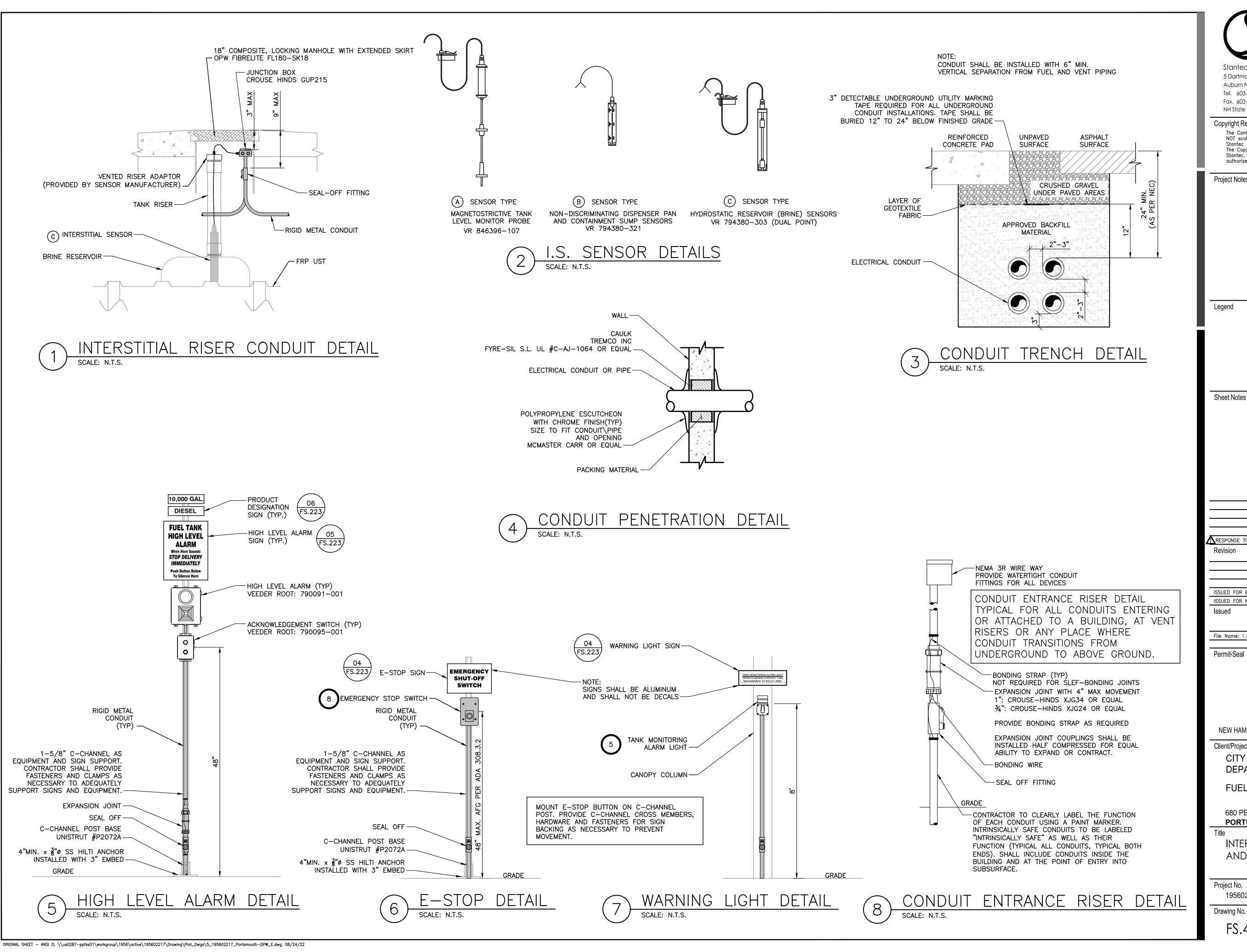
UST SUMP CONDUIT DETAILS, AND DISPENSER SUMP CONDUIT DETAILS

 Project No.
 Scale

 195602217
 AS SHOWN

 Drawing No.
 Sheet
 Revision

 FS.421
 22 of 28
 0





Tel. 603.669.8672 Fax. 603.669.7636 NHDES FACILITY ID #0113665 NH State COA 00865

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Sheet Notes

RESPONSE TO NHDES COMMENTS. DATED 7/5/22 By Appd. MM.DD.YY RBL 08.26.22 RBL 05.12.22 Appd. MM.DD.YY ISSUED FOR BID ISSUED FOR NHDES PERMIT Issued CLC RBL CLC 05.12.22 File Name: 5_195602217_Portsmouth-DPW_E.dwg Dwn. Chkd. Dsgn. MM.DD.YY

RONALD

RONALD B. LAURENCE JR. NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

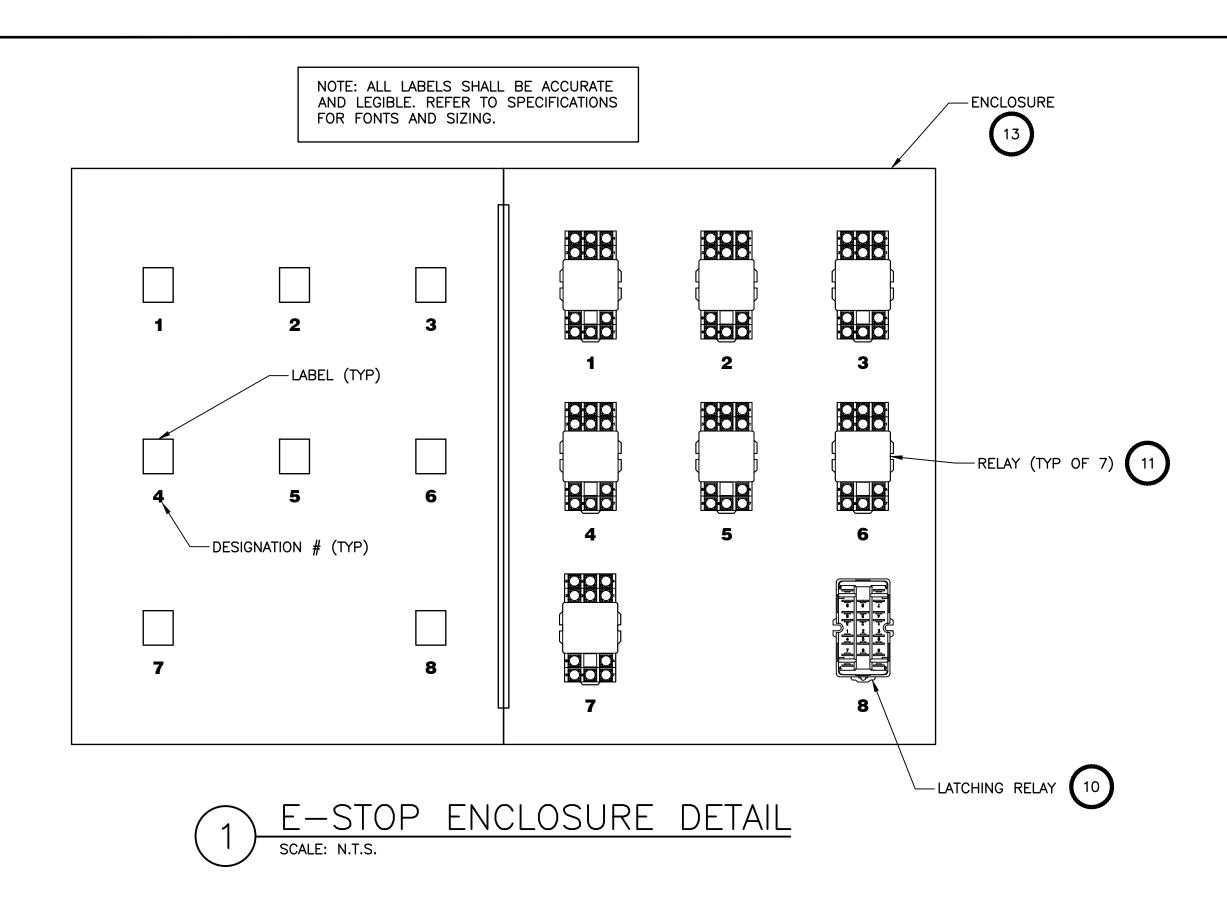
CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

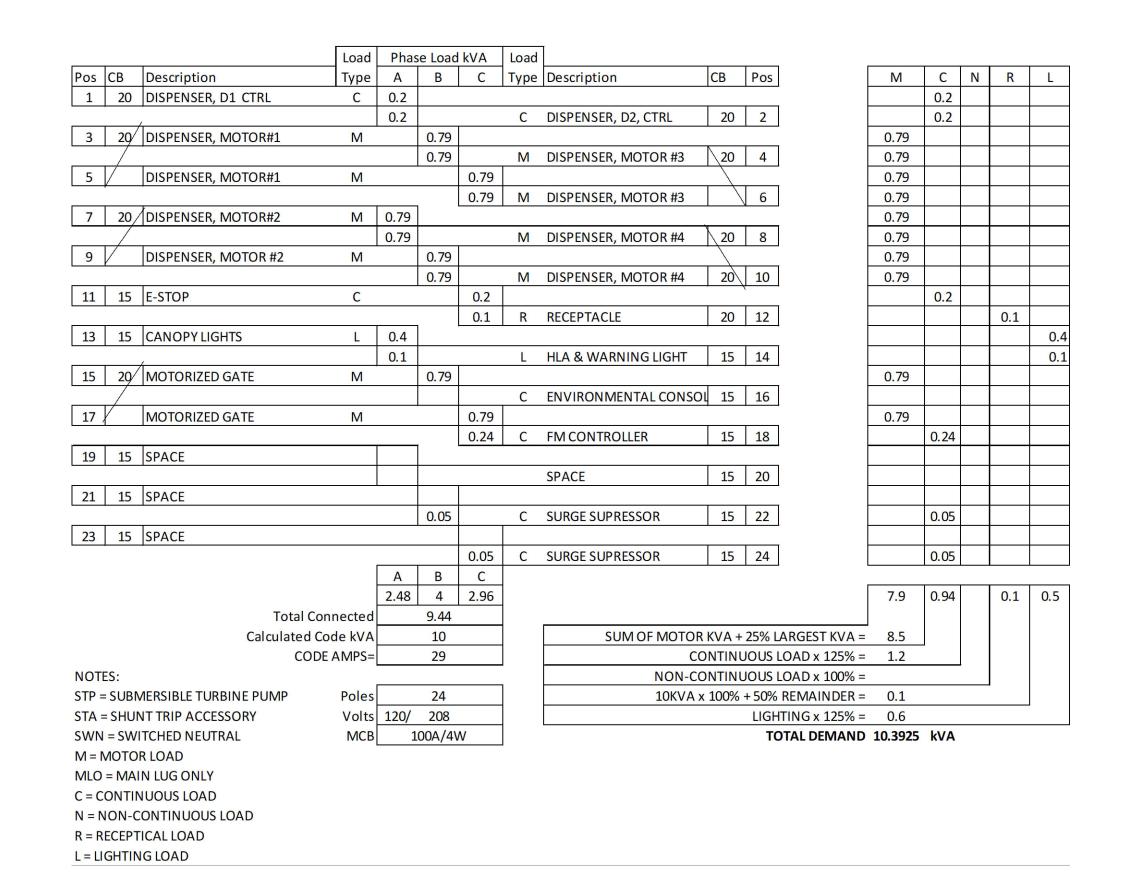
680 PEVERLY HILL RD PORTSMOUTH, NH 03801

INTERSTITIAL RISER, I.S. SENSOR, AND CONDUIT TRENCH DETAILS

Project No. Scale AS SHOWN 195602217 Drawing No. Revision 23 of **28**



NOTE: ALL LABELS SHALL BE ACCURATE AND LEGIBLE. REFER TO SPECIFICATIONS FOR FONTS AND SIZING.



FUEL SYSTEM FEEDER PANEL SCHEDULE

NOTE: ALL LABELS SHALL BE ACCURATE AND LEGIBLE. REFER TO SPECIFICATIONS FOR FONTS AND SIZING.

RELAY LABELS:

1 DISPENSER #1 - MOTOR #1

2 DISPENSER #1 - MOTOR #2

3 DISPENSER #1 — CONTROL

4 DISPENSER #2 - MOTOR #3

5 DISPENSER #2 - MOTOR #4

6 DISPENSER #2 — CONTROL

7 VEEDER ROOT SLAVE RELAY

8 MAIN LATCHING RELAY



EQUIP#	MFR	PART #	
1	SQUARE D		24 SPACE 100 A 208/120VAC THREE PHASE ELECTRICAL PANEL BY SQUARE D
2	LEVITON	1282-1	3 POSITION CANOPY LIGHT SELECTOR SWITCH LABEL "ON", "OFF", "AUTO"
3	TRANSITION	M/E-PSW-FX-02; SPS-2460-SAL; WMBM	ETHERNET TO FIBER OPTIC MEDIA CONVERTER, POWER SUPPLY AND WALL MOUNT
4	CREE	CAN-304-PS-RS-06-E- UL-WH-525-PML	LED CANOPY LIGHTS
5	ELECTRAFLASH	141ST	MONITORING SYSTEM RED EMERGENCY LIGHT
6	NETGEAR	GS108v4	8 PORT ETHERNET SWITCH
7	SQUARE D	9001SKR1GH13 9001KN123WP	E-STOP RESET BUTTON; NORMALLY OPEN; MOMENTARY; GREEN WITH LEGEND PLATE "RESET"
8	SQUARE D	9001SKR1RH13 9001KN105RP	E-STOP BUTTON; NORMALLY OPEN; MOMENTARY; RED WITH LEGEND PLATE "E-STOP"
9	SQUARE D	9001BG215 9001B321	DISPENSER ISOLATION SWITCH WITH LOCKOUT KIT
10	МКК	MK2KP, 110V PF113A-E	E-STOP LATCHING RELAY; MECHANICALLY LATCHED, ELECTRICALLY RESET; 120VAC COIL
11	SCHNEIDER ELECTRIC	782XBXC-120A 70-782D8-1A	E-STOP CONTROL RELAYS WITH SOCKET
12	WAYNE		FLEET IX FUEL MANAGEMENT CONTROLLER
13	HOFFMAN	A16N12ALP	12" x 16" HINGED ENCLOSURE FOR E-STOP
14	ITW Linx	CAT5-LAN-RJ45	DATA SURGE SUPPRESSOR
15	CIRCA TELCOM	2606QC-3B1E 6PR 66IN/OUTNOCVR W/3B1EGAS	DATA SURGE SUPPRESSOR
16	INTERMATIC	K4221C	PHOTOCELL PHOTOCELL
17	EATON	CHSPT2ULTRA	SURGE SUPPRESSOR





Stantec Consulting Services Inc. 5 Dartmouth Drive, Suite 200 Auburn NH 03032 U.S.A.

Tel. 603.669.8672 NHDES SITE #199706017 🛕 Fax. 603.669.7636 NHDES FACILITY ID #0113665 NH State COA 00865

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes

Legend

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.22
Revision	By	Appd.	MM.DD.Y
ISSUED FOR BID	CLC	RBL	08.26.22
ISSUED FOR NHDES PERMIT	CLC	RBL	05.12.22
Issued	Ву	Appd.	MM.DD.Y

File Name: 5_195602217_Portsmouth-DPW_E.dwg Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

RONALD B. LAURENCE JR.

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

RONALD

Client/Project

CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

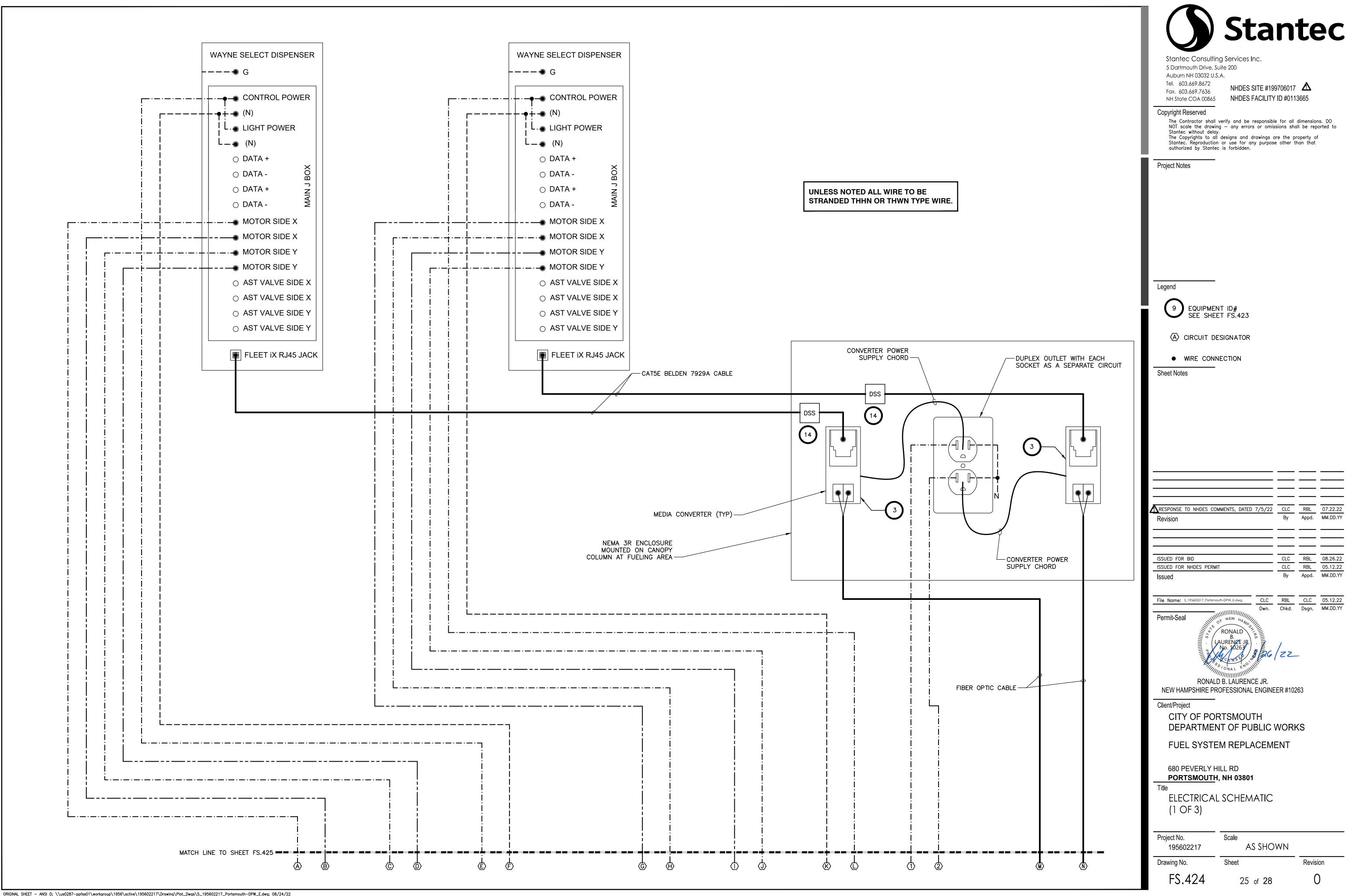
FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

HIGH LEVEL ALARM AND E-STOP DETAILS, PANEL SCHEDULE AND ELECTRICAL COMPONENTS LIST

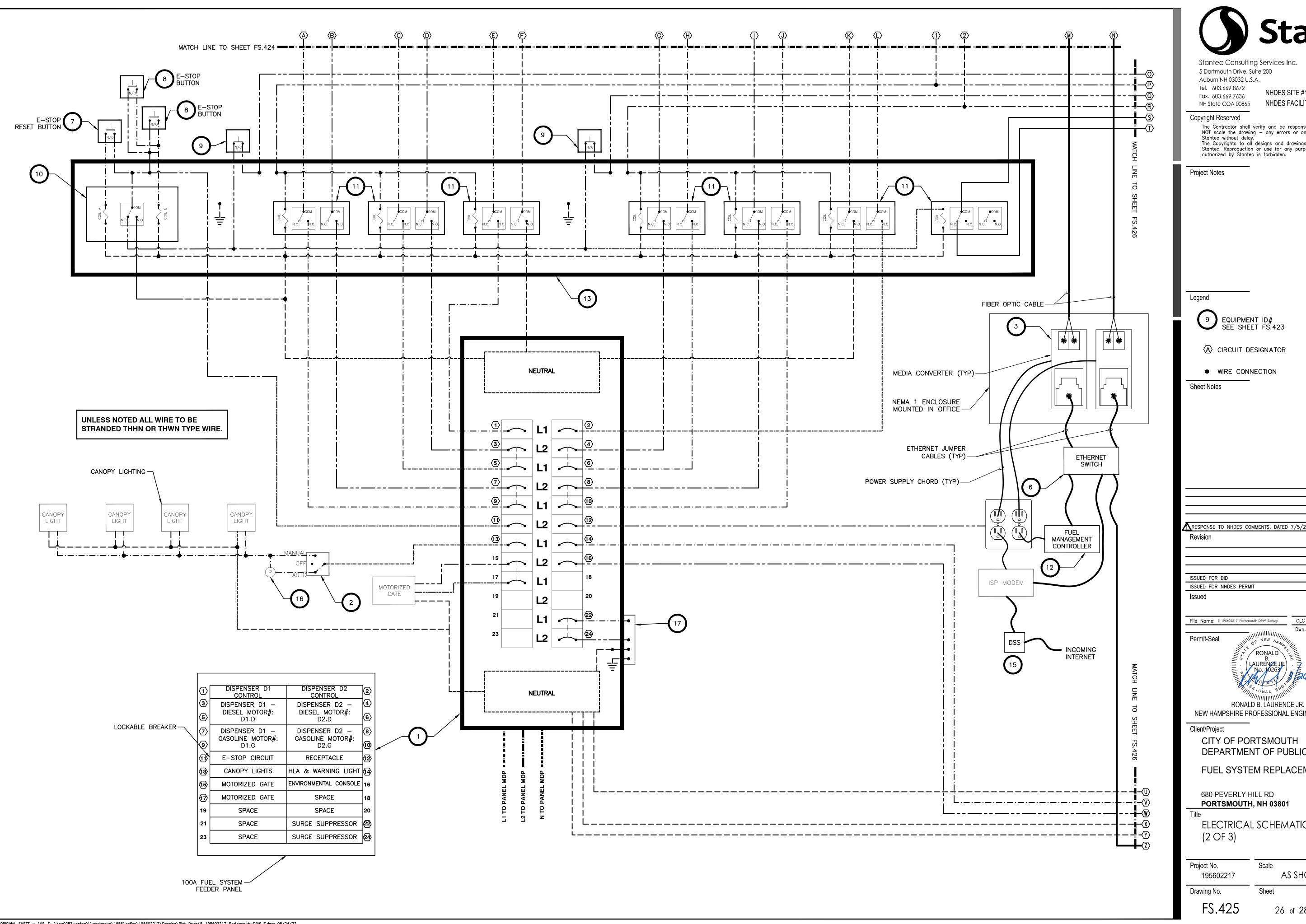
Project No. Scale as shown 195602217 Drawing No. Revision

SCALE: N.T.S.





RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.2
Revision	Ву	Appd.	MM.DD.Y
ISSUED FOR BID	CLC	RBL	08.26.2
ISSUED FOR BID ISSUED FOR NHDES PERMIT	CLC CLC	RBL RBL	08.26.2 05.12.2





Stantec Consulting Services Inc.

NHDES SITE #199706017 🛕 NHDES FACILITY ID #0113665

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.22
Revision	By	Appd.	MM.DD.Y
		_	
ISSUED FOR BID	CLC	RBL	08.26.22
ISSUED FOR NHDES PERMIT	CLC	RBL	05.12.22
Issued	Ву	Appd.	MM.DD.Y
File Name: 5_195602217_Portsmouth-DPW_E.dwg CLC	RBL	CLC	05.12.22



NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

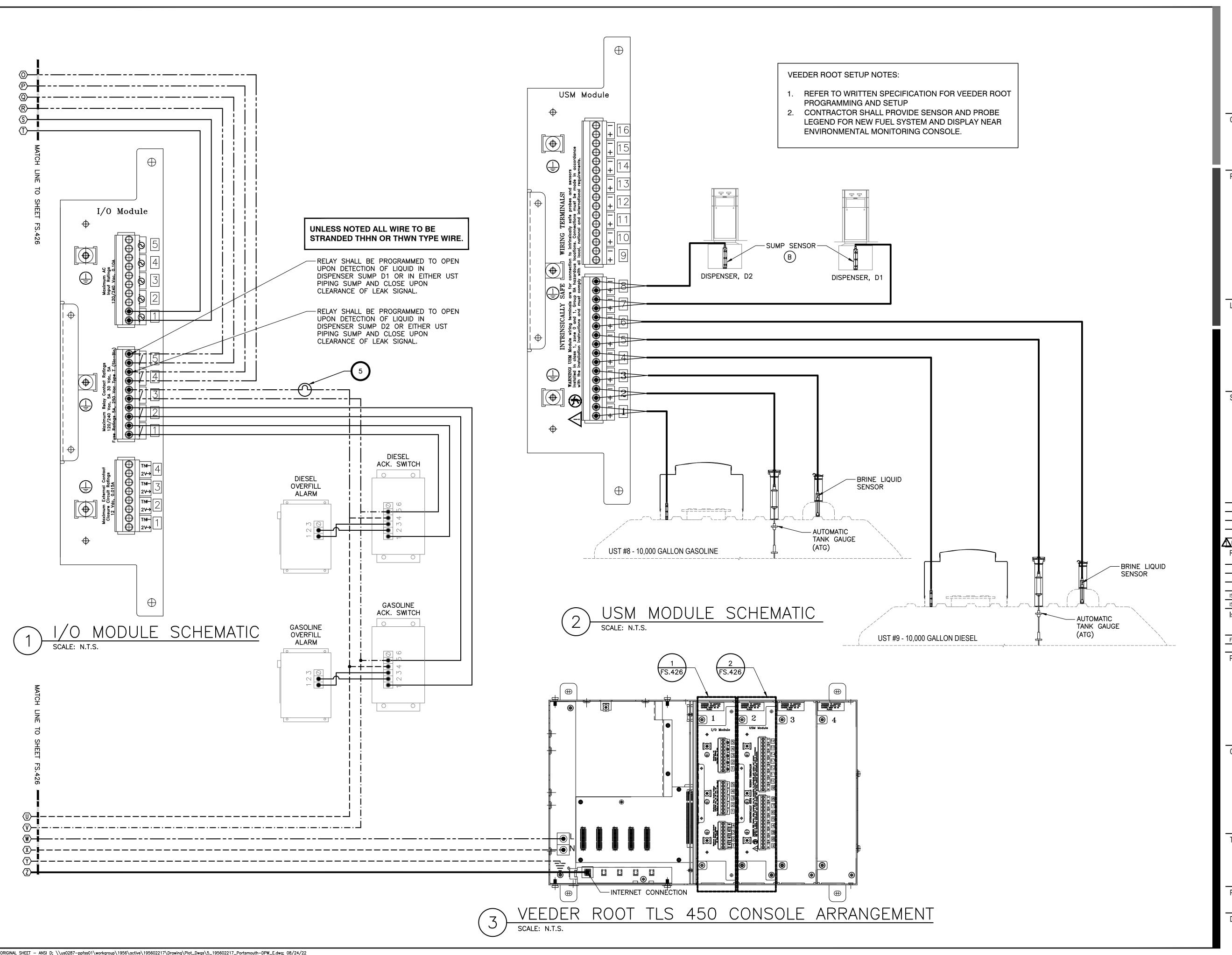
DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

PORTSMOUTH, NH 03801

ELECTRICAL SCHEMATIC

Project No. 195602217	Scale AS SHOWN	
Drawing No.	Sheet	Revision
FS 125	0/ (00	\cap





Tel. 603.669.8672 NHDES SITE #199706017 🛕 Fax. 603.669.7636 NH State COA 00865 NHDES FACILITY ID #0113665

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing — any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Project Notes



9 EQUIPMENT ID# SEE SHEET FS.423

A CIRCUIT DESIGNATOR

Sheet Notes

RESPONSE TO NHDES COMMENTS, DATED 7/5/22	CLC	RBL	07.22.22
Revision	Ву	Appd.	MM.DD.Y
ISSUED FOR BID	CLC	RBL	08.26.22
	CLC	RBL	05.12.22
ISSUED FOR NHDES PERMIT	CLC	NDL	00.12.22

File Name: 5_195602217_Portsmouth-DPW_E.dwg

RONALD B. LAURENCE JR.

NEW HAMPSHIRE PROFESSIONAL ENGINEER #10263

Client/Project

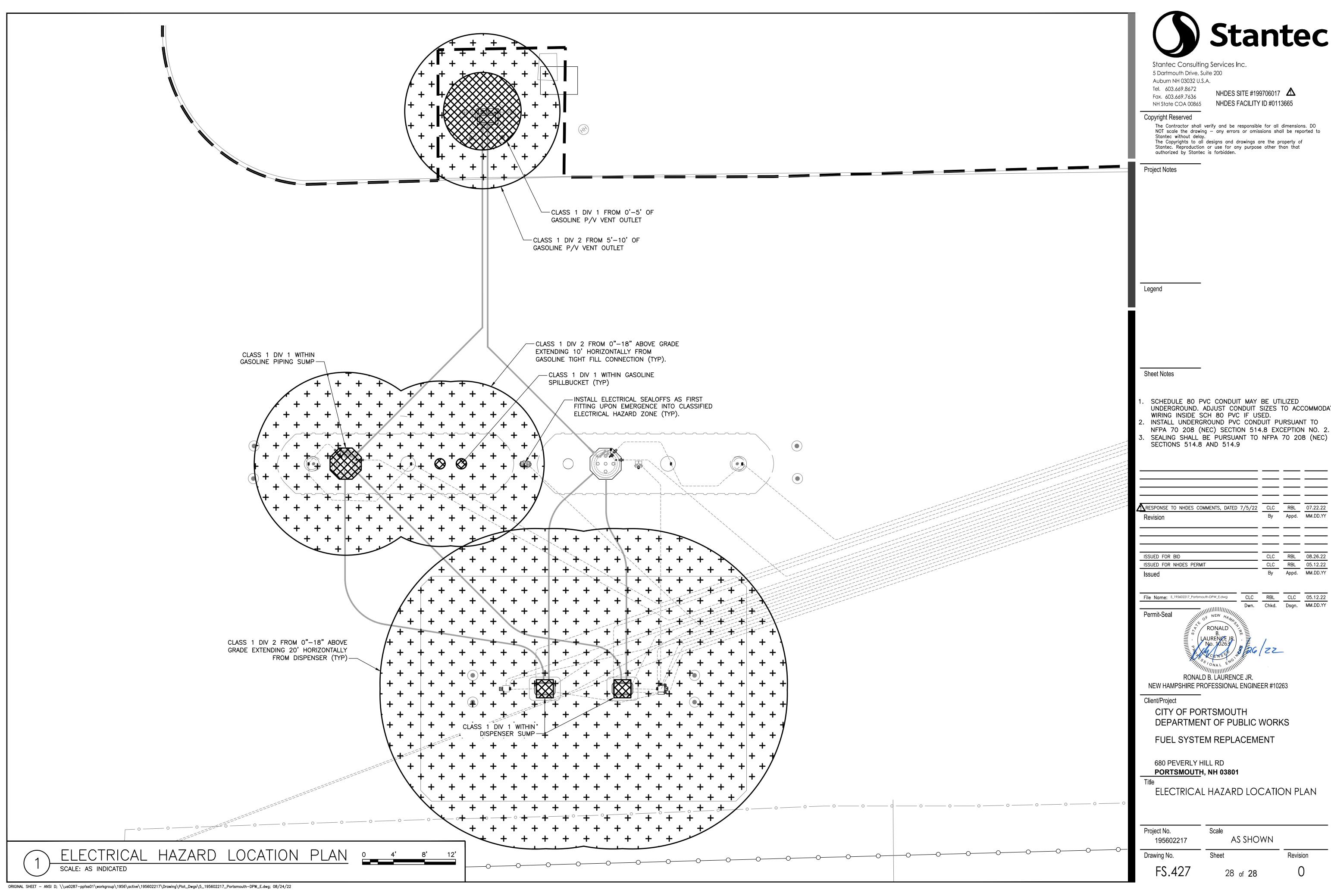
CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS

FUEL SYSTEM REPLACEMENT

680 PEVERLY HILL RD PORTSMOUTH, NH 03801

ELECTRICAL SCHEMATIC (3 OF 3)

Scale Project No. **AS SHOWN** Drawing No. FS.426



- UNDERGROUND. ADJUST CONDUIT SIZES TO ACCOMMODATE
- NFPA 70 208 (NEC) SECTION 514.8 EXCEPTION NO. 2. SEALING SHALL BE PURSUANT TO NFPA 70 208 (NEC)

RESPONSE TO NHDES COMMENTS, DATED 7/5/22 CLC RBL 07.22.22

Revision By Appd. MM.DD.YY

CLCRBLCLC05.12.22Dwn.Chkd.Dsgn.MM.DD.YY

ELECTRICAL HAZARD LOCATION PLAN

Revision