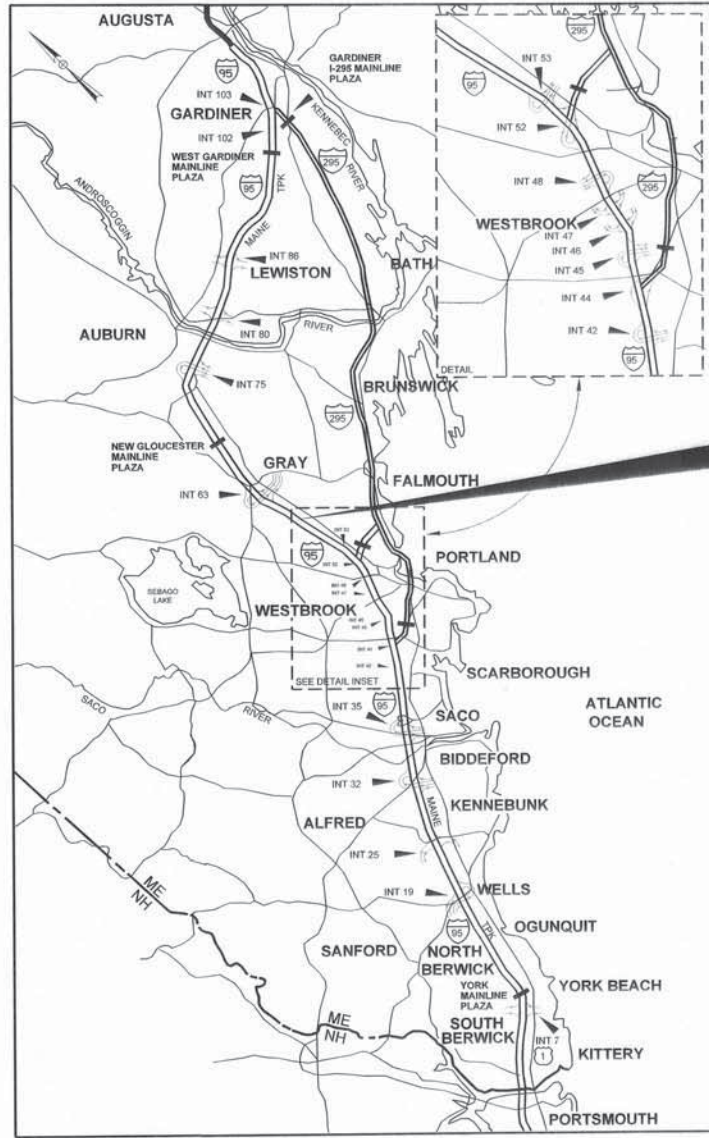


Date: 6/19/2019

Filename: 001_Title_Sheet.dgn



LOCATION MAP

CONTRACT 2019.15
 GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 MILE 58.8 NB



THE GOLD STAR
 MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 ANN R. ROBINSON, MEMBER
 JOHN E. DORITY, MEMBER
 THOMAS J. ZUKE, CPA, MEMBER
 BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2019.15 GRAY SERVICE PLAZA FUEL SYSTEM REPLACEMENT MILE 58.8 NB

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	GENERAL NOTES
4	SURVEY CONTROL PLAN
5-8	MISCELLANEOUS DETAILS
9-12	MAINTENANCE OF TRAFFIC
13	SIGN SUMMARY
14	FINAL SITE PLAN
15	DRAINAGE PLAN
16	LIMIT OF DISTURBANCE PLAN
STRUCTURAL PLANS	
17	DIESEL CANOPY PLAN AND ELEVATION
18	CONCRETE SLAB AND ISLANDS AT GASOLINE DISPENSERS
19	CONCRETE ISLAND 1 CANOPY COLUMN AND BUMPER DETAILS
20	CONCRETE SLAB AND ISLANDS AT DIESEL DISPENSERS
21	CONCRETE SLABS AT FUEL STORAGE TANKS
22	REINFORCING DETAIL FOR CONCRETE SLAB AT FUEL STORAGE TANKS
23	DISPENSER SLAB DETAILS
24	REINFORCING SCHEDULE
FUEL SYSTEM PLANS	
25	SITE PLAN - EXISTING FUEL DEMOLITION
26	SITE PLAN - PROPOSED FUEL DESIGN
27-28	FUEL TANK DETAILS
29-32	PROPOSED ELECTRICAL PLANS

CONTRACT 2019.15

APPROVED: MAINE TURNPIKE AUTHORITY

PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING &
 BUILDING MAINTENANCE

DATE

DATE

6/24/19

HNTB



Roland A. Lavalles
 ROLAND A. LAVALLES, P.E., PLS
 VICE PRESIDENT
 DIRECTOR OF OPERATIONS

6/17/19
 DATE

Date:6/26/2019

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
202.17	Removing Existing Structural Concrete	LS	1
202.202	Removing Pavement Surface	SY	820
203.20	Common Excavation	CY	340
203.2312	Health and Safety Plan	LS	1
203.2333	Disposal/Treatment of Special Excavation	TON	535
203.2334	Disposal/Treatment of Contaminated Groundwater	GAL	300,000
206.061	Structural Earth Excavation - Drainage Minor Structures Below Grade	CY	25
304.10	Aggregate Subbase Course - Gravel	CY	450
304.14	Aggregate Base Course - Type A	CY	90
403.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size	Ton	340
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	Ton	400
409.15	Bituminous Tack Coat, Applied	Gal	210
419.30	Sawing Bituminous Pavement	LF	1,110
502.701	Concrete Gas Island and Slab	CY	74
502.702	Concrete Diesel Island and Slab	CY	37
502.703	Concrete Fuel Tank Slab	CY	39
503.14	Epoxy-Coated Reinforcing Steel, Fabricated and Delivered	LB	12,200
503.15	Epoxy-Coated Reinforcing Steel, Placing	LB	12,200
524.30	Temporary Structural Support	EA	1
526.306	Temporary Concrete Barrier, Type I - Supplied by Authority (500 LF)	LS	1
603.165	15 inch Reinforced Concrete Pipe - Class III	LF	100
604.09	Catch Basin Type B1	EA	3
604.15	Manhole	EA	1
604.30	Oil-water Separator	EA	1
605.09	6" Underdrain Type B	LF	50
606.265	Terminal End - single rail- Galvanized steel	EA	4
606.356	Underdrain Delineator Post	EA	3
606.3605	Guardrail Remove and Reset	LF	162.5
607.18	6 Foot Chain Link Safety Fence	LF	500
609.31	Curb Type 3	LF	120
610.08	Plain Riprap	CY	9
613.319	Erosion Control Blanket	SY	18
615.07	Loam	CY	80
618.13	Seeding Method Number 1	Unit	5
619.1201	Mulch - Plan Quantity	Unit	5
619.1202	Temporary Mulch	LS	1
622.10	Transplanting Shrub	EA	13
626.13	18" X 12" X 18" Quazite Junction Box	EA	1
626.22	Non-Metallic Conduit	LF	70
626.32	24 Inch Diameter Foundation	EA	2
626.36	Remove or Modify Concrete Foundation	EA	2
627.731	Temporary 6 Inch Black Pavement Marking Tape	LF	100
627.733	4" White or Yellow Painted Pavement Marking Line	LF	650
627.78	Temporary Pavement Marking Line White or Yellow	LF	840
629.05	Hand Labor, Straight Time	MH	20


ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
631.12	All Purpose Excavator (including operator)	HR	20
631.172	Truck Large (including operator)	HR	40
631.221	Small Front End Loader (including operator)	HR	20
631.32	Culvert Cleaner (including operator)	HR	12
631.36	Foreman	HR	20
634.208	Remove and Reset Light Standards	EA	2
634.23	Temporary Lighting	LS	1
639.19	Field Office, Type B	EA	1
645.109	Remove and Reset Sign	EA	1
652.33	Drum	EA	70
652.34	Cones	EA	25
652.35	Construction Signs	SF	146
652.361	Maintenance of Traffic Control Devices	LS	1
652.38	Flaggers	HR	40
652.41	Portable Changeable Message Sign	EA	1
655.101	#6 AWG Wire	LF	180
655.11	#10 AWG Wire	LF	90
656.50	Baled Hay, in place	EA	12
656.632	30 Inch Temporary Silt Fence	LF	280
659.10	Mobilization	LS	1
800.01	Removal of Underground Tanks (Gasoline and Diesel)	LS	1
800.02	Underground Tank Installation (Gasoline and Diesel)	LS	1
800.03	Aboveground Diesel Tank Installation	LS	1
800.04	Aboveground Gasoline Tank Installation	LS	1
800.50	New Canopy (Diesel)	LS	1

Filename: 002_Estimate Quantities.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	Designed	DSS 4\19\2019		Checked	DAM 4\19\2019
	Drawn	WAD 4\19\2019		In Charge of	RAL 4\19\2019

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

ESTIMATED QUANTITIES

SHEET NUMBER: EQ-01

CONTRACT: 2019.15 2 OF 32

Date: 6/26/2019

GENERAL

1. ALL WORK SHALL CONFORM TO THE MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS FOR HIGHWAYS AND BRIDGES (LATEST REVISION), THE MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL (LATEST REVISION) AND THE 2014 MAINEDOT STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS UNLESS OTHERWISE INCLUDED IN THESE PLANS.

2. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.

3. ANY DAMAGE TO FINAL PAVEMENT, SLOPES, OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. AS-BUILT PLANS FOR THE SERVICE PLAZAS AND EXISTING FUEL SYSTEM ARE AVAILABLE FROM THE AUTHORITY UPON REQUEST.

5. CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN OF ALL FUEL SYSTEM AND FUEL SYSTEM RELATED ITEMS UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS. CONTRACTOR SHALL SUBMIT FINAL P.E. STAMPED DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OR AS NOTED IN THE PLANS AND SPECIFICATIONS.

6. CONTRACTOR TO PROVIDE, FOR APPROVAL, LAYOUT PLAN AND DETAILS FOR TEMPORARY POWER AND COMMUNICATION TO TEMPORARY FUEL SYSTEM AND KIOSKS.

7. CLEARING FOR TANK REMOVAL AND INSTALLATION SHALL BE INCIDENTAL TO THE CONTRACT, PER ITEM 800.01.

8. THE CONTRACTOR SHALL PROVIDE AS-CONSTRUCTED PLANS WITH HORIZONTAL AND VERTICAL LOCATIONS OF PIPES, CONDUITS, TANKS ETC. AT A MINIMUM, THE AS CONSTRUCTED PLANS SHALL BE CADD QUALITY IN PDF FORMAT.

9. HORIZONTAL AND VERTICAL CONTROL POINTS:

POINT *1010 - TBM SET SPK 10' W PINE
 NORTHING: 361781.38
 EASTING: 2912096.93
 ELEVATION: 310.06'

POINT *2074 - TBM X LP BASE ABIO
 NORTHING: 361116.34
 EASTING: 2912430.42
 ELEVATION: 300.37'

LIGHTING

1. EXISTING LIGHTING WITHIN THE PROJECT LIMITS SHALL BE OPERATIONAL AT ALL TIMES UNLESS NOTED OTHERWISE ON THE PLANS.

2. ALL ENCOUNTERED WIRE SHALL BE CAREFULLY CROSSED. NO SPLICES ALLOWED IN LINE, ONLY IN JUNCTION BOXES.

3. EXISTING CONDUIT MAY BE ASBESTOS CEMENT CONDUIT. CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE IT. ALL EXISTING CONDUIT THAT REQUIRES REMOVAL DUE TO NEW CONSTRUCTION SHALL BE REMOVED PER THE SPECIFICATIONS, SPECIAL PROVISION 105.2 AND AS DIRECTED BY THE RESIDENT.

4. ALL WIRE SHALL BE COPPER, NO ALUMINUM WIRE IS ALLOWED.

5. ALL LIGHT STANDARD AND CONDUIT TRENCHES SHALL BE INSTALLED IN A MANNER THAT AVOIDS DRAINAGE STRUCTURES AND UTILITIES.

6. PROPOSED NON-METALLIC CONDUIT SHALL BE 2" SCHEDULE 80 PVC AND CONTAIN TWO (2) *6 AND ONE (1) *10 (GROUND) WIRES CONSISTENT WITH EXISTING CIRCUIT. CONTRACTOR TO FIELD VERIFY.

7. LIGHTING CONDUIT, JUNCTION BOXES, AND WIRE SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEMS.

EARTHWORK

1. SPECIAL EXCAVATION SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES. CLASSIFICATION OF SPECIAL EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR DURING EXCAVATION OPERATIONS.

2. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).

3. COMMON BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.

EROSION CONTROL

1. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.

2. 4' LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.

4. MULCH SHALL BE APPLIED IN AREAS SEEDED EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.

5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.

6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE SEEDED WITH FINAL SEED WITHIN 30 DAYS.

7. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.

8. TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND SLOPES 2:1 AND STEEPER FROM THE TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE UNLESS OTHERWISE SPECIFIED ON THE PLANS OR AS DESIGNATED BY THE RESIDENT.

DRAINAGE

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

3. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL.

4. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CULVERT ITEMS.

5. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CATCH BASIN ITEMS.

6. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32- CULVERT CLEANER (INCLUDING OPERATORS)

UTILITIES

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT MAY COORDINATE WITH DIG SMART.

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED OTHERWISE.

3. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
 THE MAINE TURNPIKE AUTHORITY (SEWER, WATER, AND ELECTRIC).
 OTELCO (COMMUNICATIONS)
 CHARTER (FORMERLY TIME WARNER)
 CENTRAL MAINE POWER



4. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE UTILITY LOCATIONS.

5. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.

6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY SERVICES. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT HIS OWN EXPENSE.

7. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING AND BACKFILLING NEAR EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE NEEDED.

Filename: 003_General Notes.dgn

Scale:				Designed by:								HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909								THE GOLD STAR MEMORIAL HIGHWAY				GRAY SERVICE PLAZA FUEL SYSTEM REPLACEMENT GENERAL NOTES																											
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				No.	Revision	By	Date																																					CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.				<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>DSS 4\19\2019</td> <td>Checked</td> <td>DAM 4\19\2019</td> </tr> <tr> <td>Drawn</td> <td>WAD 4\19\2019</td> <td>In Charge of</td> <td>RAL 4\19\2019</td> </tr> </tbody> </table>			
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Date: 6/26/2019

NB Const. Baseline
 POB = 50+00.00
 N = 360740.45
 E = 2912258.81
 POE = 60+00.00
 N = 361719.40
 E = 2912054.69

NB Perimeter Rd.
 POB = 103+00.00
 N = 360866.66
 E = 2912336.24
 POE = 116+50.00
 N = 361994.09
 E = 2911945.32

← MAINE TURNPIKE SB

MAINE TURNPIKE NB →

POB = STA. 50+00.00

POE = STA. 60+00.00

PI = STA. 116+49.94
 POE = STA. 116+50.00

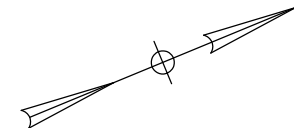
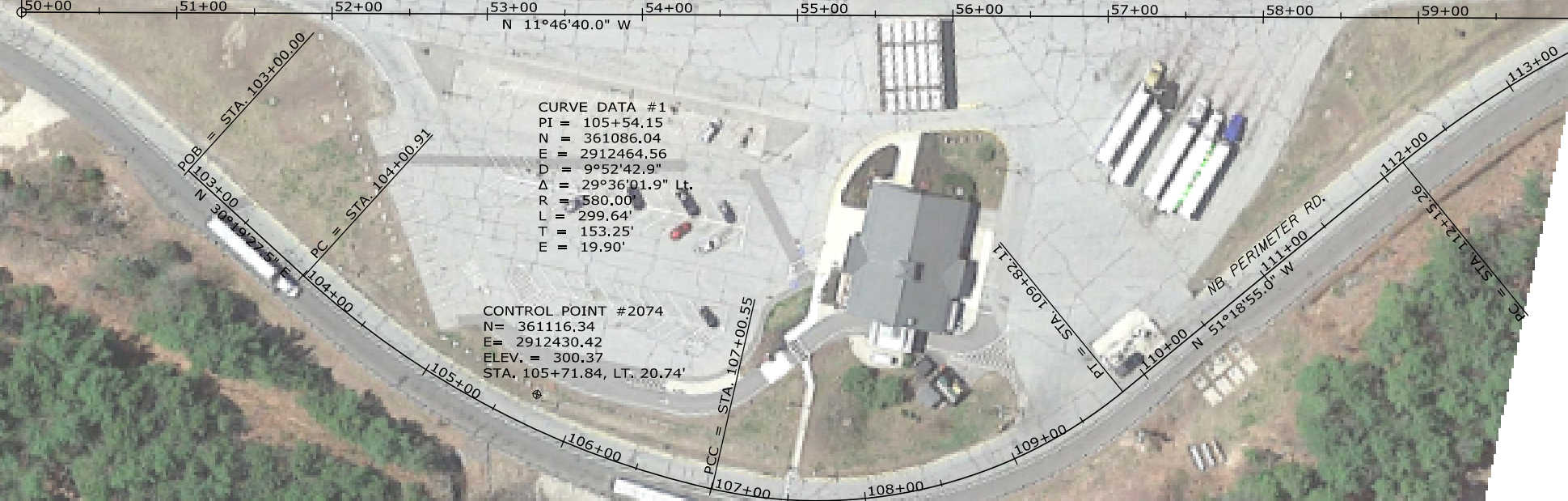
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 E = 2912096.93
 ELEV. = 310.06
 Ⓢ STA. 113+80.69, RT. 53.08'

CURVE DATA #3
 PI = 114+41.65
 N = 361772.41
 E = 2911991.56
 D = 9°05'40.4"
 Δ = 39°31'54.2" Rt.
 R = 630.00'
 L = 434.67'
 T = 226.39'
 E = 39.44'

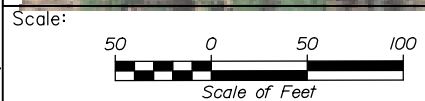
CURVE DATA #1
 PI = 105+54.15
 N = 361086.04
 E = 2912464.56
 D = 9°52'42.9"
 Δ = 29°36'01.9" Lt.
 R = 580.00'
 L = 299.64'
 T = 153.25'
 E = 19.90'

CONTROL POINT #2074
 N = 361116.34
 E = 2912430.42
 ELEV. = 300.37
 STA. 105+71.84, LT. 20.74'

CURVE DATA #2
 PI = 108+51.88
 N = 361390.59
 E = 2912468.41
 D = 18°28'57.0"
 Δ = 52°02'20.6" Lt.
 R = 310.00'
 L = 281.56'
 T = 151.33'
 E = 34.96'



Filename: 004_Survey_Control_Plan.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	DSS	4\19\2019	Checked	DAM	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

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MAINE TURNPIKE

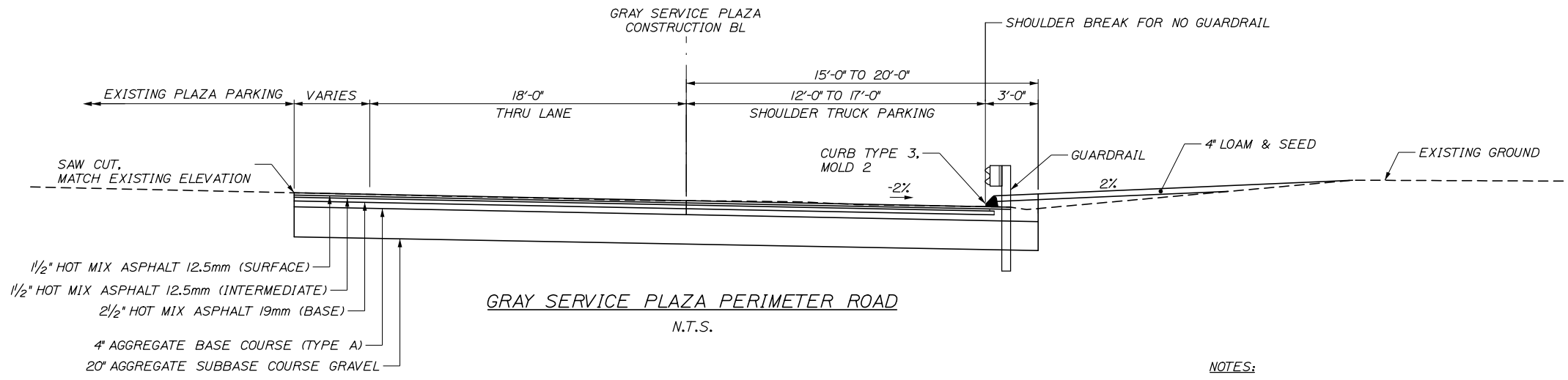
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 SURVEY CONTROL PLAN

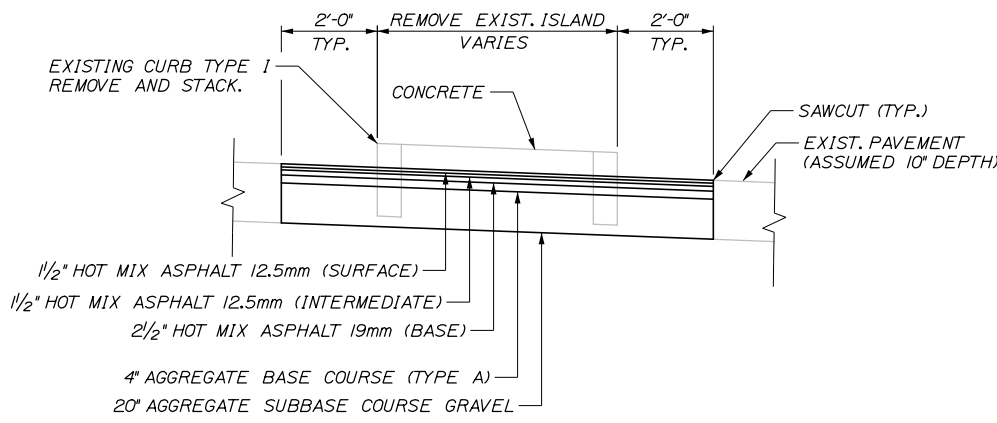
SHEET NUMBER: SP-01
 CONTRACT: 2019.15
 4 OF 32

Date: 6/26/2019



GRAY SERVICE PLAZA PERIMETER ROAD
N.T.S.

- NOTES:**
1. A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690 TYPE IV) SHALL BE APPLIED AT THE TOP SURFACE LIFT TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS EXCEPT WHERE THE NOTCHED WEDGE IS USED
 2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND PROPOSED HMA.



REMOVAL OF EXISTING CURBED ISLAND
N.T.S.

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

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Designed	DSS	4\19\2019	Checked	DAM	4\19\2019
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT**

SITE TYPICAL SECTIONS

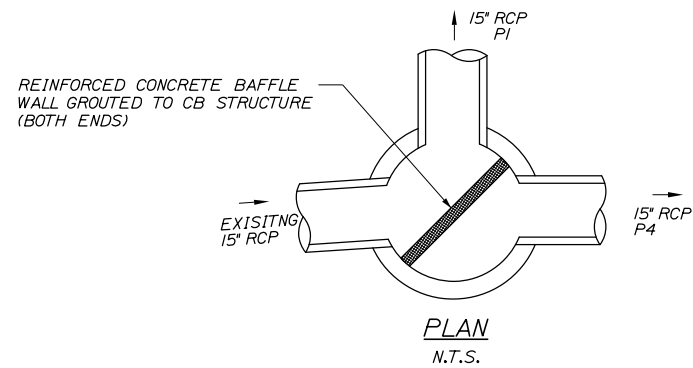
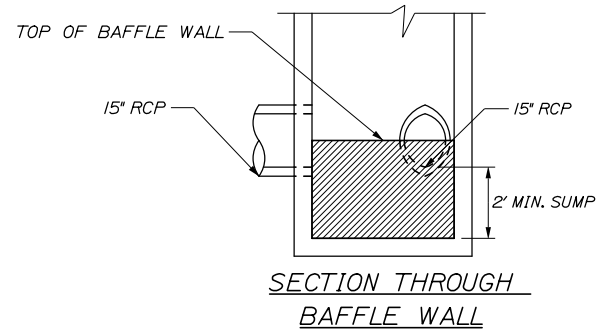
SHEET NUMBER: TS-01

CONTRACT: 2019.15

5 OF 32

Filename: 005_Site Dtl1.dgn

Date: 6/26/2019

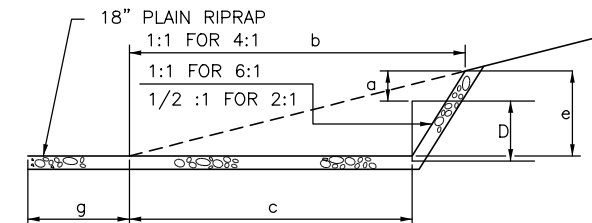
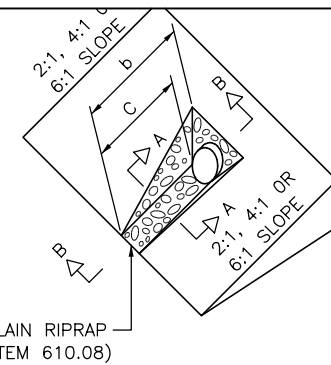


DIVERSION STRUCTURE NOTES:

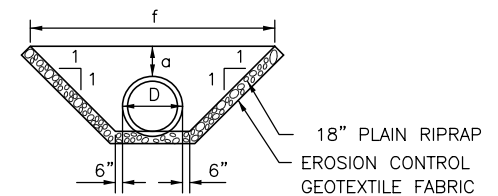
1. SEE DRAINAGE NOTES FOR ADDITIONAL INVERT AND GRATE ELEVATIONS.

DIMENSIONS FOR SLOPE OF 2:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22



SECTION B-B

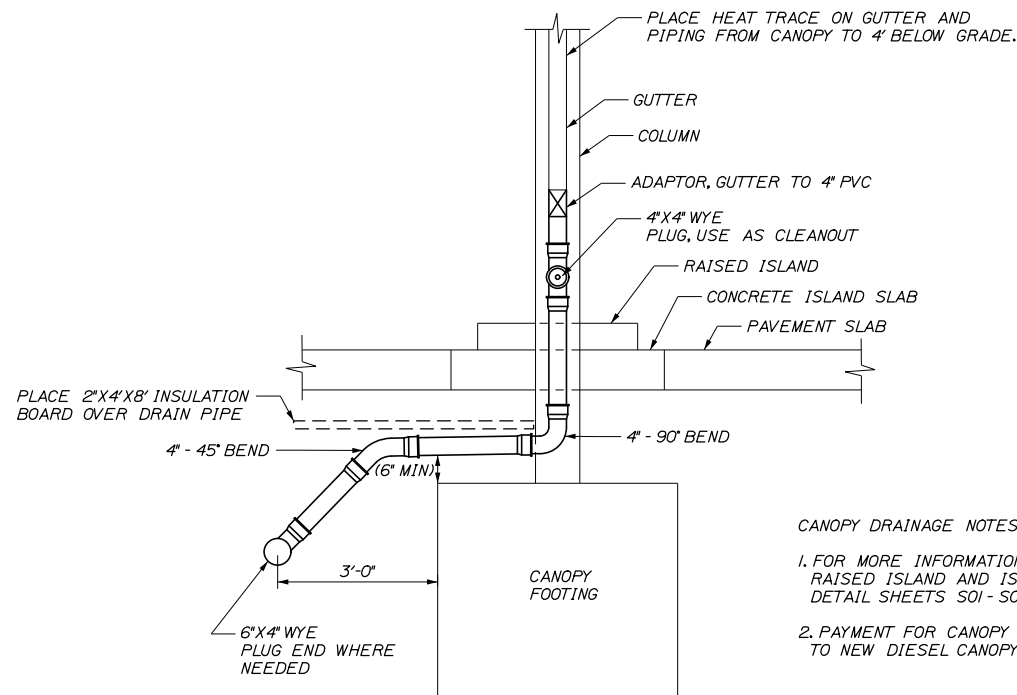


SECTION A-A

ROADWAY CULVERT END SLOPE TREATMENT

CULVERT NOTES:

1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



CANOPY DRAINAGE DETAIL N.T.S.

CANOPY DRAINAGE NOTES:

1. FOR MORE INFORMATION ON FOOTING, PAVEMENT SLAB, RAISED ISLAND AND ISLAND SLAB SEE STRUCTURAL DETAIL SHEETS S01 - S04
2. PAYMENT FOR CANOPY DRAINAGE SHALL BE INCIDENTAL TO NEW DIESEL CANOPY INSTALLATION.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

By	Date	By	Date
Designed	DSS 4\19\2019	Checked	DAM 4\19\2019
Drawn	WAD 4\19\2019	In Charge of	RAL 4\19\2019

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

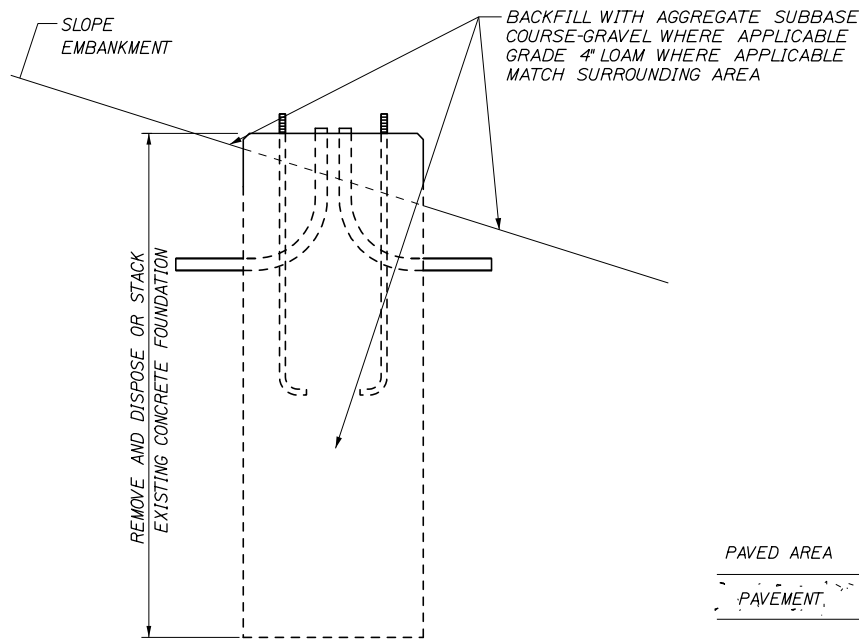
GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 DRAINAGE DETAILS

SHEET NUMBER: MD-01
 CONTRACT: 2019.15
 6 OF 32

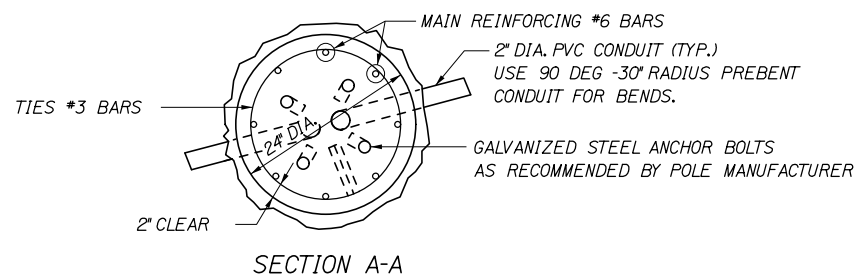
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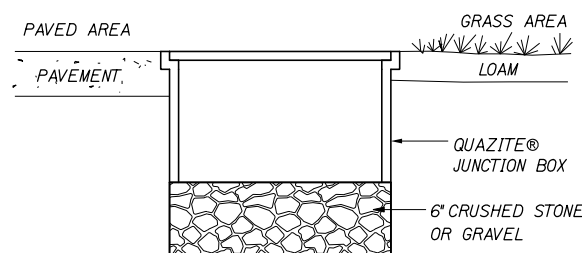
1. SEE SHEET TD-01 FOR STANDARD CONDUIT TRENCH DETAIL
2. QUAZITE® JUNCTION BOXES FOR HIGHWAY LIGHTING SHALL BE QUAZITE AND IN ACCORDANCE WITH SPECIAL PROVISION 626.
3. SPLICES IN JUNCTION BOX SHALL BE MADE WITH ILSCO USPA-350-SS-DB SAFETYSUB WATER TIGHT DIRECT BURY SPLICE WIRE RANGE 350MCM-10-STR, ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.



REMOVAL OF CONCRETE FOUNDATION
N.T.S.

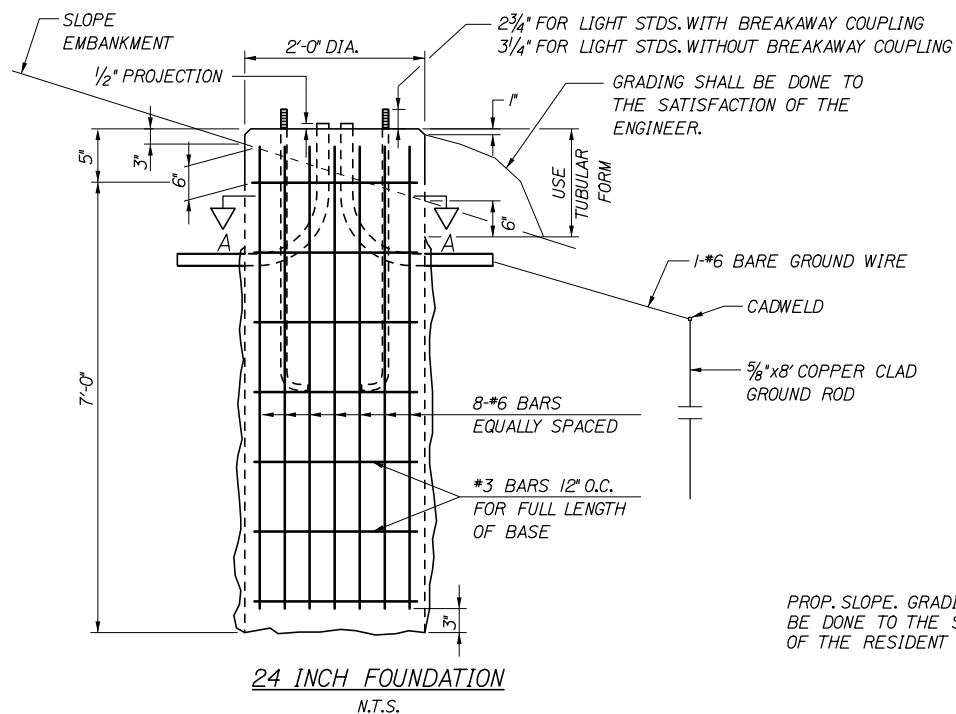


SECTION A-A



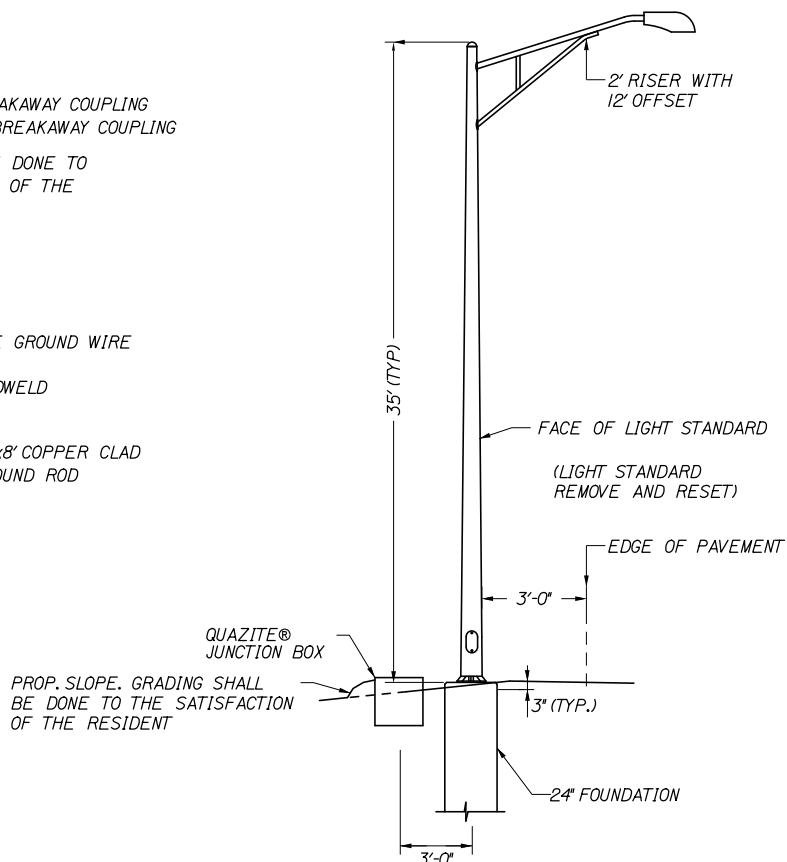
JUNCTION BOX COVER & FRAME
N.T.S.

NOTE:
INSTALL JUNCTION BOXES ON GRADE

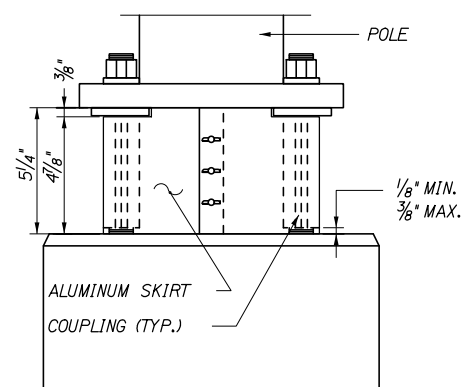


24 INCH FOUNDATION
N.T.S.

NOTE:
WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINE DOT STANDARD DETAIL 626(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.

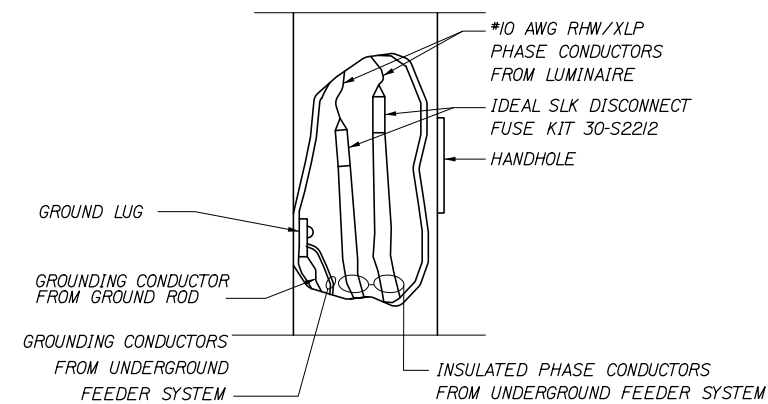


PLACEMENT OF LIGHT STANDARD
N.T.S.



BREAKAWAY COUPLINGS AND SKIRT DETAIL *
N.T.S.

* BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW LIGHT STANDARDS



TYPICAL POLE WIRING DETAIL
N.T.S.

*SEE ELECTRICAL PLANS FOR WIRE SIZES


Date: 6/26/2019

Filename: 007_Light_Dtl.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	DSS	4\19\2019	Checked	DAM	4\19\2019
	Drawn	WAD	In Charge of	RAL	4\19\2019

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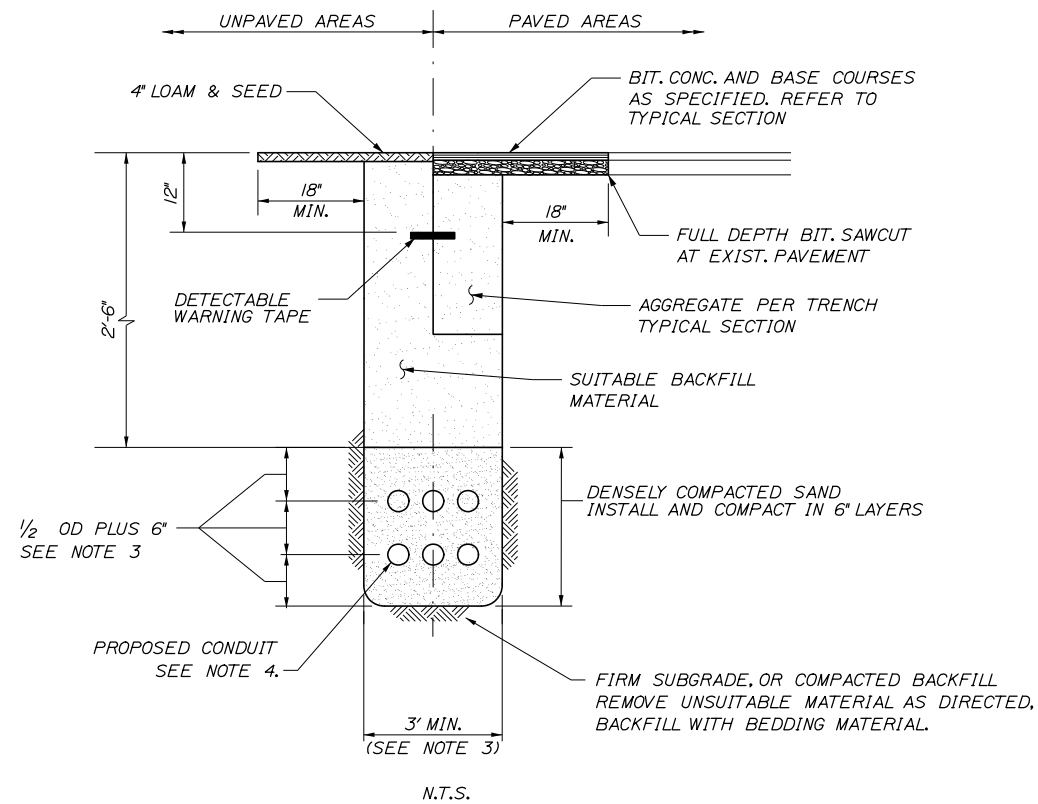
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
LIGHT STANDARDS DETAIL

SHEET NUMBER: LS-01
CONTRACT: 2019.15
7 OF 32

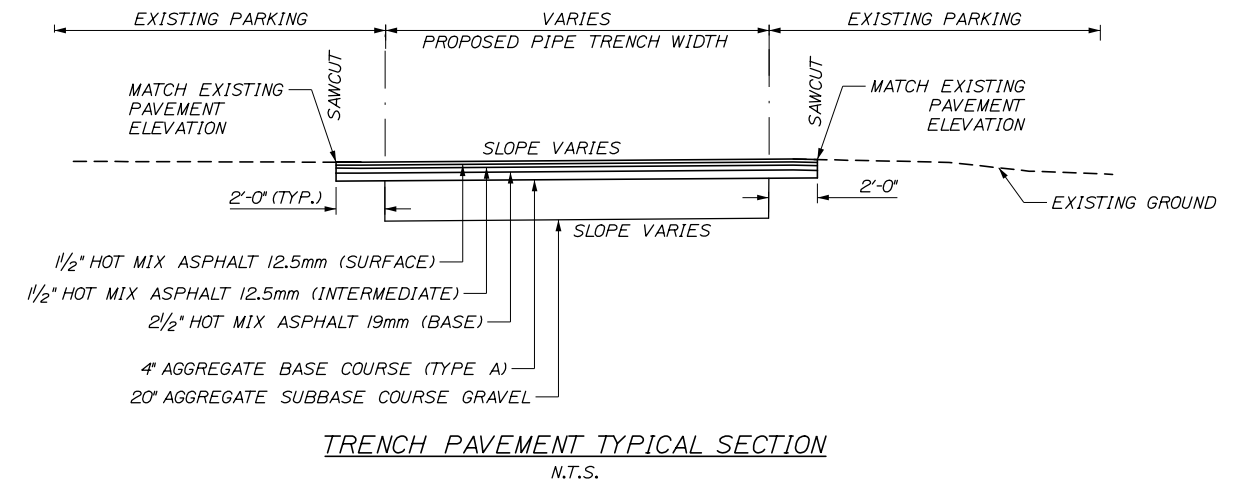
Date: 6/26/2019



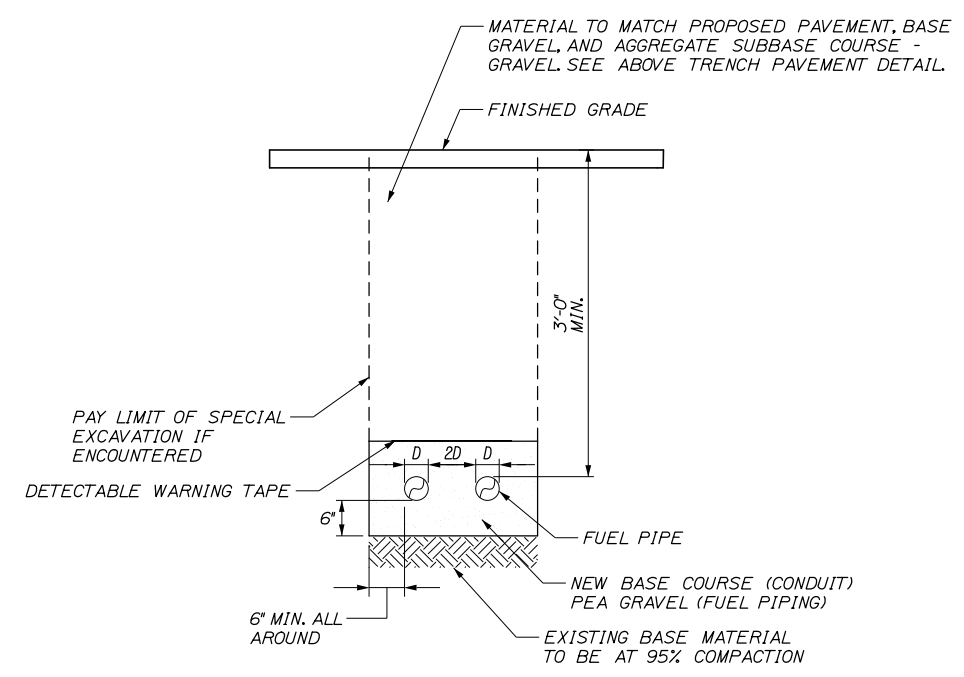
STANDARD PIPE/CONDUIT TRENCH DETAIL

NOTES:

1. BEDDING SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
2. CONTRACTOR SHALL SHORE TRENCH SIDES WHEN REQUIRED OR AS DIRECTED BY THE RESIDENT.
3. CONTRACTOR SHALL COMPLY WITH MINIMUM DISTANCES, BOTH HORIZONTALLY AND VERTICALLY, BETWEEN UTILITIES PER APPLICABLE CODE REQUIREMENTS. DIMENSIONS ABOVE ARE MINIMUMS.
4. CONDUIT SHALL BE SCHEDULE 80 OR RMC UNDER PAVEMENT. IF CONTRACTOR USES OTHER CONDUIT TYPE, 4" CONCRETE COVER OVER TRENCH WIDTH IS REQUIRED.
5. MINIMUM OF 6" BETWEEN PIPES OR CONDUITS TO TRENCH WALLS IS REQUIRED.



TRENCH PAVEMENT TYPICAL SECTION
N.T.S.



TYPICAL BURIED FUEL PIPING SECTION
N.T.S.

- NOTES:**
PROVIDE UTILITY MARKING TAPE WITH METALLIC TRACE WIRE ABOVE EACH UTILITY.

Filename: 008_Trench_Dtl1.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	DSS	4\19\2019	Checked	DAM	4\19\2019
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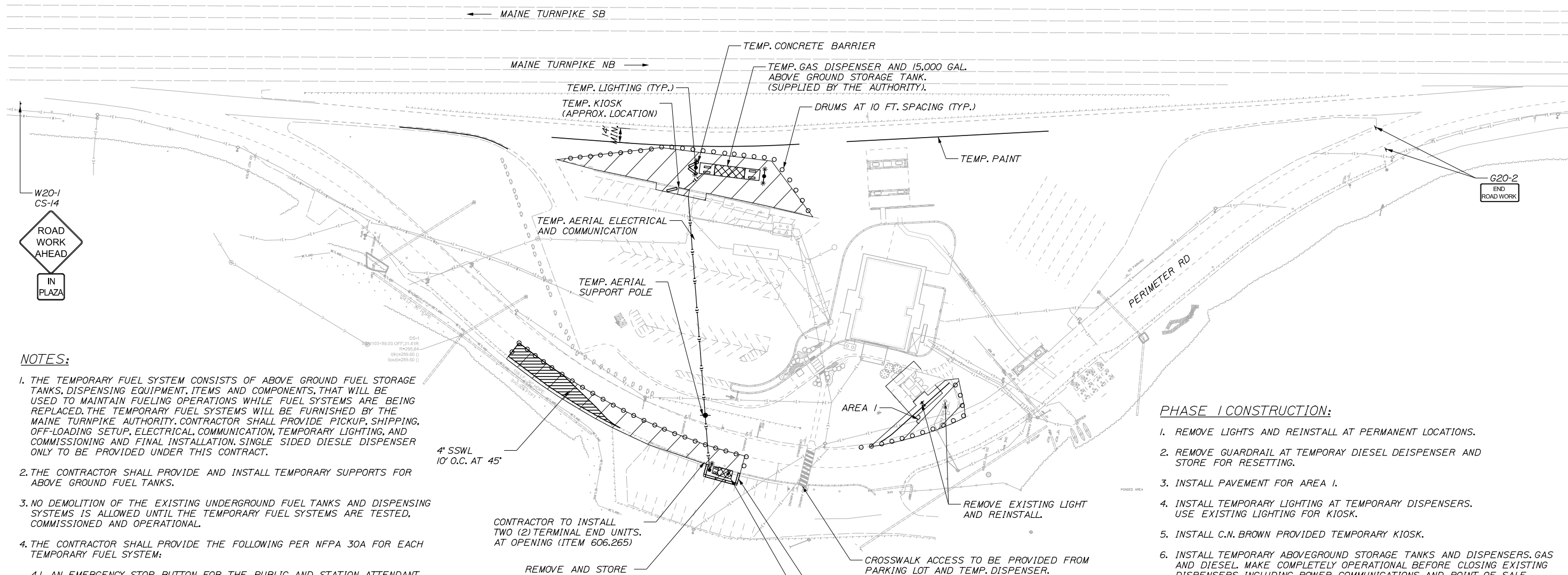
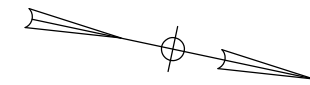
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

STANDARD TRENCH DETAILS

SHEET NUMBER: TD-01
CONTRACT: 2019.15
8 OF 32



NOTES:

1. THE TEMPORARY FUEL SYSTEM CONSISTS OF ABOVE GROUND FUEL STORAGE TANKS, DISPENSING EQUIPMENT, ITEMS AND COMPONENTS, THAT WILL BE USED TO MAINTAIN FUELING OPERATIONS WHILE FUEL SYSTEMS ARE BEING REPLACED. THE TEMPORARY FUEL SYSTEMS WILL BE FURNISHED BY THE MAINE TURNPIKE AUTHORITY. CONTRACTOR SHALL PROVIDE PICKUP, SHIPPING, OFF-LOADING SETUP, ELECTRICAL, COMMUNICATION, TEMPORARY LIGHTING, AND COMMISSIONING AND FINAL INSTALLATION. SINGLE SIDED DIESEL DISPENSER ONLY TO BE PROVIDED UNDER THIS CONTRACT.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY SUPPORTS FOR ABOVE GROUND FUEL TANKS.
3. NO DEMOLITION OF THE EXISTING UNDERGROUND FUEL TANKS AND DISPENSING SYSTEMS IS ALLOWED UNTIL THE TEMPORARY FUEL SYSTEMS ARE TESTED, COMMISSIONED AND OPERATIONAL.
4. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING PER NFPA 30A FOR EACH TEMPORARY FUEL SYSTEM:
 - 4.1 AN EMERGENCY STOP BUTTON FOR THE PUBLIC AND STATION ATTENDANT.
 - 4.2 DRY CHEMICAL 2A:40B:C FIRE EXTINGUISHER AT EACH TEMPORARY DISPENSER.
 - 4.3 CONTRACTOR TO PROVIDE AND INSTALL SHEAR VALVES FOR EACH DISPENSER IN THE EVENT OF IMPAIRMENT.
5. THE CONTRACTOR WILL BE ALLOWED UP TO A 24-HOUR SHUTDOWN WITH THE APPROVAL OF THE MTA RESIDENT ENGINEER. FOR THE SHUTDOWN OF THE EXISTING UST SYSTEMS IN ORDER TO TEST AND COMMISSION THE ABOVE GROUND TEMPORARY SYSTEMS AND PUT THEM INTO FULL OPERATIONS. A MINIMUM 7-DAY NOTICE SHALL BE GIVEN FOR APPROVAL OF THE SHUTDOWN.
6. CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR SCHEDULED SERVICE PLAZA AND FUEL STATION DELIVERIES.
7. CONTRACTOR SHALL SEE SPECIFICATIONS FOR PROSECUTION OF WORK. ADDITIONAL INFORMATION AND OTHER IMPORTANT SCHEDULE CONSTRAINTS.

PHASE I CONSTRUCTION:

1. REMOVE LIGHTS AND REINSTALL AT PERMANENT LOCATIONS.
2. REMOVE GUARDRAIL AT TEMPORARY DIESEL DISPENSER AND STORE FOR RESETTING.
3. INSTALL PAVEMENT FOR AREA I.
4. INSTALL TEMPORARY LIGHTING AT TEMPORARY DISPENSERS. USE EXISTING LIGHTING FOR KIOSK.
5. INSTALL C.N. BROWN PROVIDED TEMPORARY KIOSK.
6. INSTALL TEMPORARY ABOVEGROUND STORAGE TANKS AND DISPENSERS. GAS AND DIESEL MAKE COMPLETELY OPERATIONAL BEFORE CLOSING EXISTING DISPENSERS, INCLUDING POWER COMMUNICATIONS, AND POINT OF SALE.

NOTES CONTINUED:

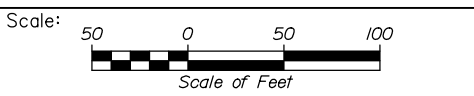
8. A FLAGGER USE PLAN SHALL BE SUBMITTED TO THE RESIDENT PRIOR TO ANY FLAGGING. FLAGGERS WILL NOT BE ALLOWED ON I-95 OR RAMPS AT THE PLAZA. A MAXIMUM OF 40 HOURS OF FLAGGING MAY BE APPROVED FOLLOWING REVIEW OF THE FLAGGING USE PLAN.
9. SEE SHEET SS-01 FOR SIGN DETAILS.

LEGEND

- WORK AREA - PHASE I
- PORTABLE CONCRETE BARRIER
- 6' CHAIN LINK SAFETY FENCE

Date: 6/26/2019

Filename: 009_MOT-ph1.dgn



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

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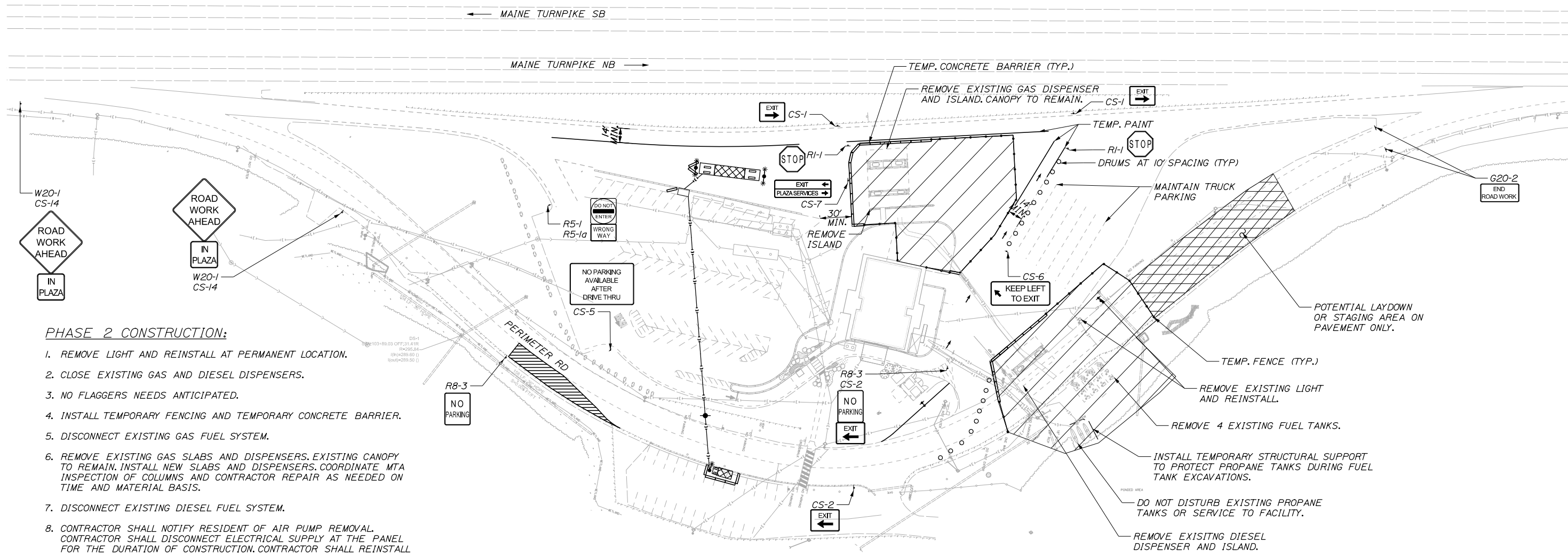
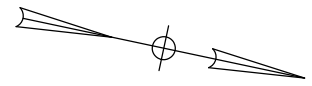


**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
MAINTENANCE OF TRAFFIC
PHASE 1**

SHEET NUMBER: MOT-01
CONTRACT: 2019.15
9 OF 32



PHASE 2 CONSTRUCTION:

1. REMOVE LIGHT AND REINSTALL AT PERMANENT LOCATION.
2. CLOSE EXISTING GAS AND DIESEL DISPENSERS.
3. NO FLAGGERS NEEDS ANTICIPATED.
4. INSTALL TEMPORARY FENCING AND TEMPORARY CONCRETE BARRIER.
5. DISCONNECT EXISTING GAS FUEL SYSTEM.
6. REMOVE EXISTING GAS SLABS AND DISPENSERS. EXISTING CANOPY TO REMAIN. INSTALL NEW SLABS AND DISPENSERS. COORDINATE MTA INSPECTION OF COLUMNS AND CONTRACTOR REPAIR AS NEEDED ON TIME AND MATERIAL BASIS.
7. DISCONNECT EXISTING DIESEL FUEL SYSTEM.
8. CONTRACTOR SHALL NOTIFY RESIDENT OF AIR PUMP REMOVAL. CONTRACTOR SHALL DISCONNECT ELECTRICAL SUPPLY AT THE PANEL FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL REINSTALL ALL CONDUIT, WIRE, AND JUNCTION BOX THAT IS DISTURBED DURING CONSTRUCTION. PAYMENT IS INCIDENTAL TO NEW CANOPY INSTALLATION.
9. REMOVE EXISTING DIESEL SLABS AND DISPENSERS. INSTALL NEW SLAB, CANOPY, AND DISPENSERS.
10. CONTRACTOR SHALL COORDINATE WITH RESIDENT AND C.N. BROWN FOR REMOVAL AND INSTALLATION OF DISPENSERS. C.N. BROWN WILL TAKE DELIVERY OF DISPENSERS, STORE THEM, AND PROVIDE NEW/REFURBISHED DISPENSERS FOR INSTALLATION.
11. REMOVE EXISTING RAISED ISLAND NEAR GAS DISPENSERS.
12. EXCAVATE AND REMOVE EXISTING GAS AND DIESEL FUEL TANKS. INSTALL NEW TANKS.
13. RUN ELECTRICAL, SLEEVES AND/OR PIPING UNDER PERIMETER ROAD TO DIESEL DISPENSERS AND LIMIT OF WORK ZONE.
14. INSTALL FUEL TANKS PRIOR TO INSTALLING GUARDRAIL ALONG PERIMETER ROAD.

- LEGEND**
- WORK AREA - PHASE 2
 - PORTABLE CONCRETE BARRIER
 - 6' CHAIN LINK SAFETY FENCE
 - POTENTIAL LAYDOWN AREA

- NOTES:**
1. CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR SCHEDULED SERVICE PLAZA AND FUEL STATION DELIVERIES.
 2. GRANITE CURB REMOVED SHALL BE SALVAGED TO MTA.
 3. SEE SHEET SS-01 FOR SIGN DETAILS.

Date: 6/26/2019

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

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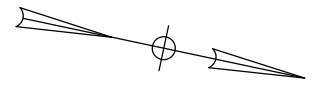
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

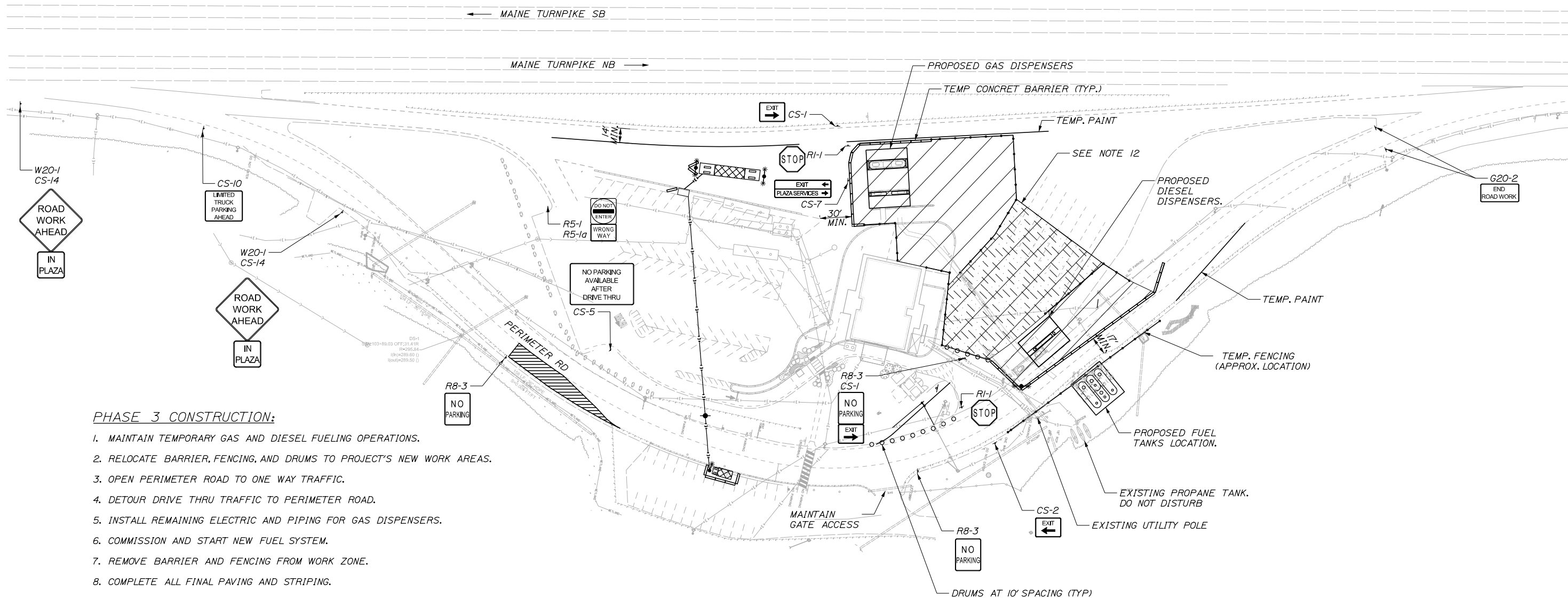
**GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
MAINTENANCE OF TRAFFIC
PHASE 2**

SHEET NUMBER: MOT-02
10 OF 32

CONTRACT: 2019.15



Date: 6/26/2019

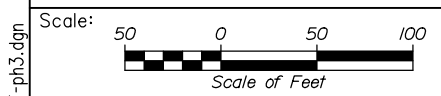


PHASE 3 CONSTRUCTION:

1. MAINTAIN TEMPORARY GAS AND DIESEL FUELING OPERATIONS.
2. RELOCATE BARRIER, FENCING, AND DRUMS TO PROJECT'S NEW WORK AREAS.
3. OPEN PERIMETER ROAD TO ONE WAY TRAFFIC.
4. DETOUR DRIVE THRU TRAFFIC TO PERIMETER ROAD.
5. INSTALL REMAINING ELECTRIC AND PIPING FOR GAS DISPENSERS.
6. COMMISSION AND START NEW FUEL SYSTEM.
7. REMOVE BARRIER AND FENCING FROM WORK ZONE.
8. COMPLETE ALL FINAL PAVING AND STRIPING.
9. REMOVE ALL TEMPORARY SIGNING.
10. NO FLAGGERS NEEDS ANTICIPATED.
11. SEE SHEET SS-01 FOR SIGN DETAILS.
12. RESTRICTED WORK AREA IS LIMITED TO TWO (2) WEEK MAXIMUM CLOSURE DURING PHASE 3 WORK (24 HRS PER DAY). FOR THE REMAINDER OF PHASE 3, TRUCK PARKING SHALL BE AVAILABLE FROM 7 PM TO 7 AM. CONTRACTOR MAY UTILIZE THE FULL PHASE 3 WORK ZONE 7 AM TO 7 PM.

LEGEND

- WORK AREA - PHASE 3
- PORTABLE CONCRETE BARRIER
- 6' CHAIN LINK SAFETY FENCE
- RESTRICTED WORK AREA



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

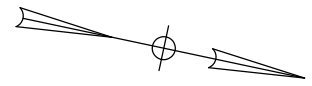
GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
MAINTENANCE OF TRAFFIC
PHASE 3

CONTRACT: 2019.15

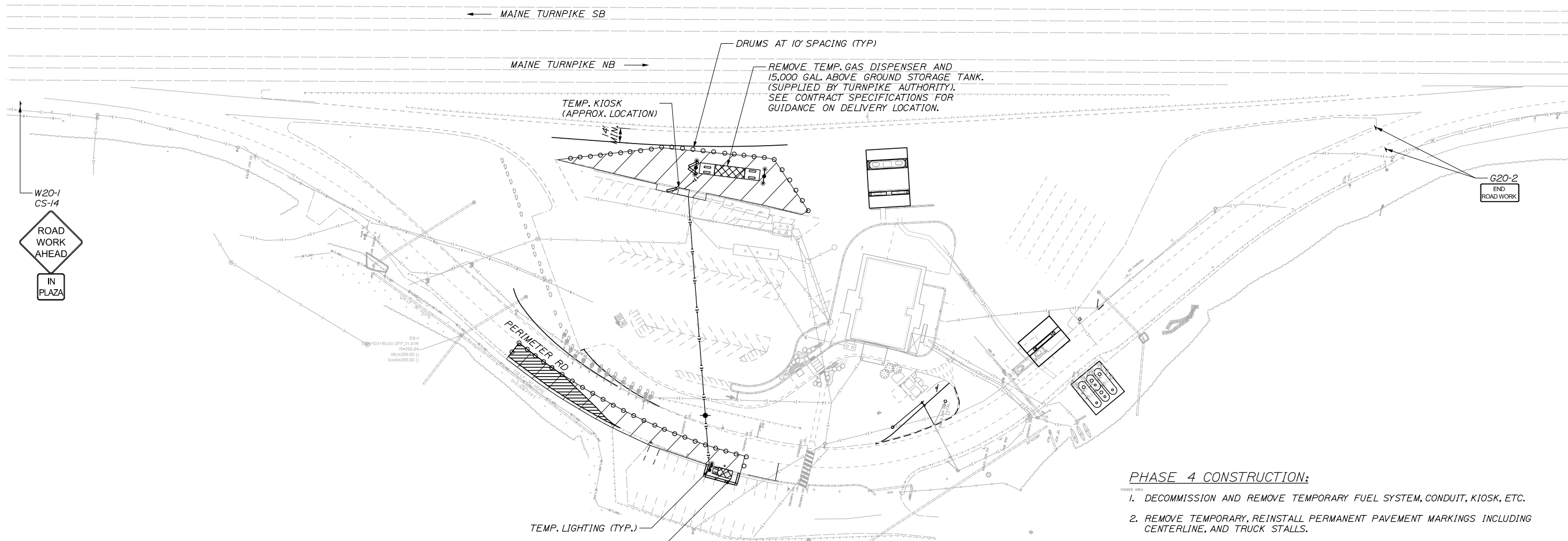
SHEET NUMBER: MOT-03

11 OF 32

Filename: 011_MOT-ph.3.dgn



Date: 6/26/2019

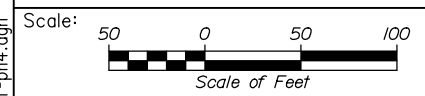


PHASE 4 CONSTRUCTION:

1. DECOMMISSION AND REMOVE TEMPORARY FUEL SYSTEM, CONDUIT, KIOSK, ETC.
2. REMOVE TEMPORARY, REINSTALL PERMANENT PAVEMENT MARKINGS INCLUDING CENTERLINE, AND TRUCK STALLS.
3. REMOVE ALL TEMPORARY FENCING, BARRIER AND SIGNING ASSOCIATED WITH TEMPORARY FUEL SYSTEMS.
4. RESET GUARDRAIL ALONG PERIMETER ROAD AT TEMPORARY DIESEL DISPENSERS.
5. SEE SHEET SS-01 FOR SIGN DETAILS.

LEGEND

- WORK AREA - PHASE 4
- PORTABLE CONCRETE BARRIER
- 6' CHAIN LINK SAFETY FENCE



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

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THE GOLD STAR
MEMORIAL HIGHWAY

GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 MAINTENANCE OF TRAFFIC
 PHASE 4

Filename: 012_MOT-ph4.dgn

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.15

SHEET NUMBER: MOT-04

12 OF 32

CONSTRUCTION SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
CS-1	30"	24"		4"C	3" 3" 11" 3"	4.5"x18"	2	ORANGE	BLACK	6.75 (13.50)
CS-2	30"	24"		4"C	3" 3" 11" 3"	4.5"x18"	2			6.75 (13.50)
CS-5	48"	36"	NO PARKING AVAILABLE AFTER DRIVE THRU	4"C 4"C 4"C 4"C	6" 3" 3" 5"	4"x6"	1			12.00 (12.00)
CS-6	42"	18"		4"C 4"C	3.5" 3" 3.5"	4"x6"	1			5.25 (5.25)
CS-7	54"	18"		4"C 4"C	3" 4" 3"	4"x6" 4"x6"	1			6.75 (6.75)
CS-10	36"	30"	LIMITED TRUCK PARKING AHEAD	4"C 4"C 4"C 4"C	2.5" 3" 3" 2.5"		1			7.50 (7.50)
CS-14	18"	18"		4"C 4"C	3.5" 3" 3.5"		2			2.25 (4.50)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER	
R1-1	36"	36"					2	RED	WHITE	9.00 (18.00)
R8-3	18"	24"					3	WHITE	RED	3.00 (9.00)
G20-2	36"	18"					2	ORANGE	BLACK	4.50 (9.00)
W20-1	48"	48"					2	ORANGE	BLACK	16.00 (32.00)
R5-1	36"	36"					1	RED	WHITE	9.00 (9.00)
R5-1a	36"	24"					1	ORANGE	BLACK	6.00 (6.00)

TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT

Date: 6/26/2019

Filename: 013_Sign_Summary_1.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

By	Date	By	Date
Designed	DSS 4\19\2019	Checked	DAM 4\19\2019
Drawn	WAD 4\19\2019	In Charge of	RAL 4\19\2019

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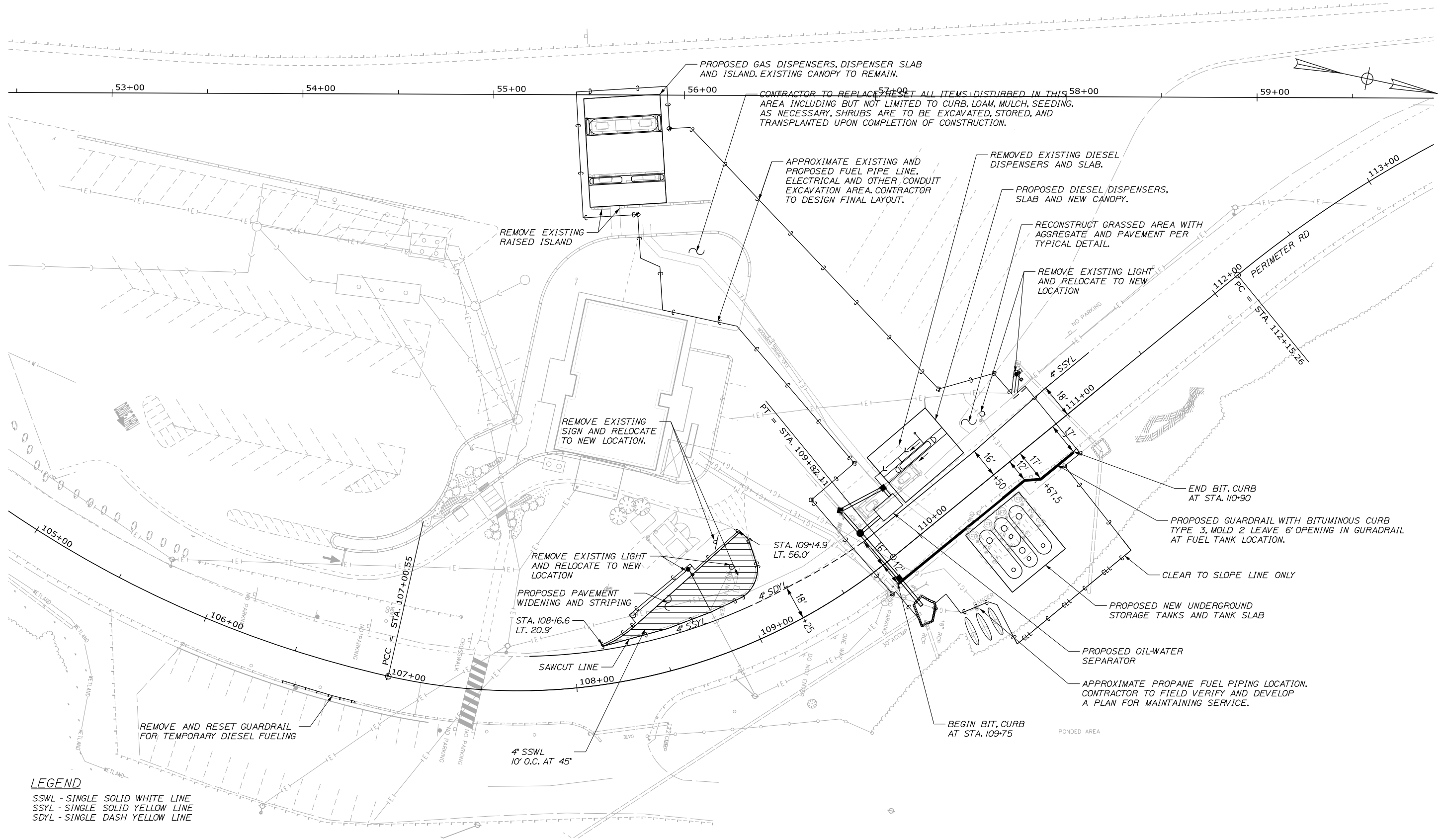
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY

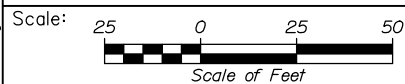
SHEET NUMBER: SS-01
 CONTRACT: 2019.15
 13 OF 32

Date: 6/26/2019



LEGEND

SSWL - SINGLE SOLID WHITE LINE
 SSYL - SINGLE SOLID YELLOW LINE
 SDYL - SINGLE DASH YELLOW LINE



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT**

FINAL SITE PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.15

SHEET NUMBER: SP-02

14 OF 32

Filename: 014_Site Plan.dgn

Date: 6/26/2019

CB1
 STA. 109+75.2, 36.4' LT.
 REPLACE EXISTING CB
 INSTALL DIVERSION STRUCTURE
 GRATE ELEV. = 298.59'
 EXIST. 15" RCP INV IN = 295.46'
 15" INV. OUT (P1) = 295.21'
 15" INV. OUT (P4) = 295.21'
 TO OF BAFFLE WALL = 295.88'

CB2
 STA. 110+00.8, 31.4' LT.
 INSTALL CB TYPE BI
 GRATE ELEV. = 298.39'
 15" INV. IN = 295.10'
 6" INV. IN = 295.60'
 15" INV. OUT = 294.85'

CB3
 STA. 109+77.5, 10.4' RT.
 INSTALL CB TYPE BI
 GRATE ELEV. = 298.20'
 15" INV. IN = 293.90'
 15" INV. OUT = 293.65'

MHI
 STA. 109+76.2, 20.6' LT.
 INSTALL MH
 RIM ELEV. = 298.45'
 15" INV. IN (P4) = 295.07'
 15" INV. IN (P3) = 294.29'
 15" INV. OUT = 294.04'

OWSI
 STA. 190+95, 22' LT.
 INSTALL OIL WATER SEPARATOR
 SLAB ELEV. = 298.70'
 15" INV. IN = 294.70'
 15" INV. OUT = 294.45'

P1
 CB1 TO CB2
 INSTALL 21" x 15" RCP

P2
 CB2 TO OIL WATER SEPARATOR
 INSTALL 4" x 15" RCP

P3
 OIL WATER SEPARATOR TO MHI
 INSTALL 12" x 15" RCP

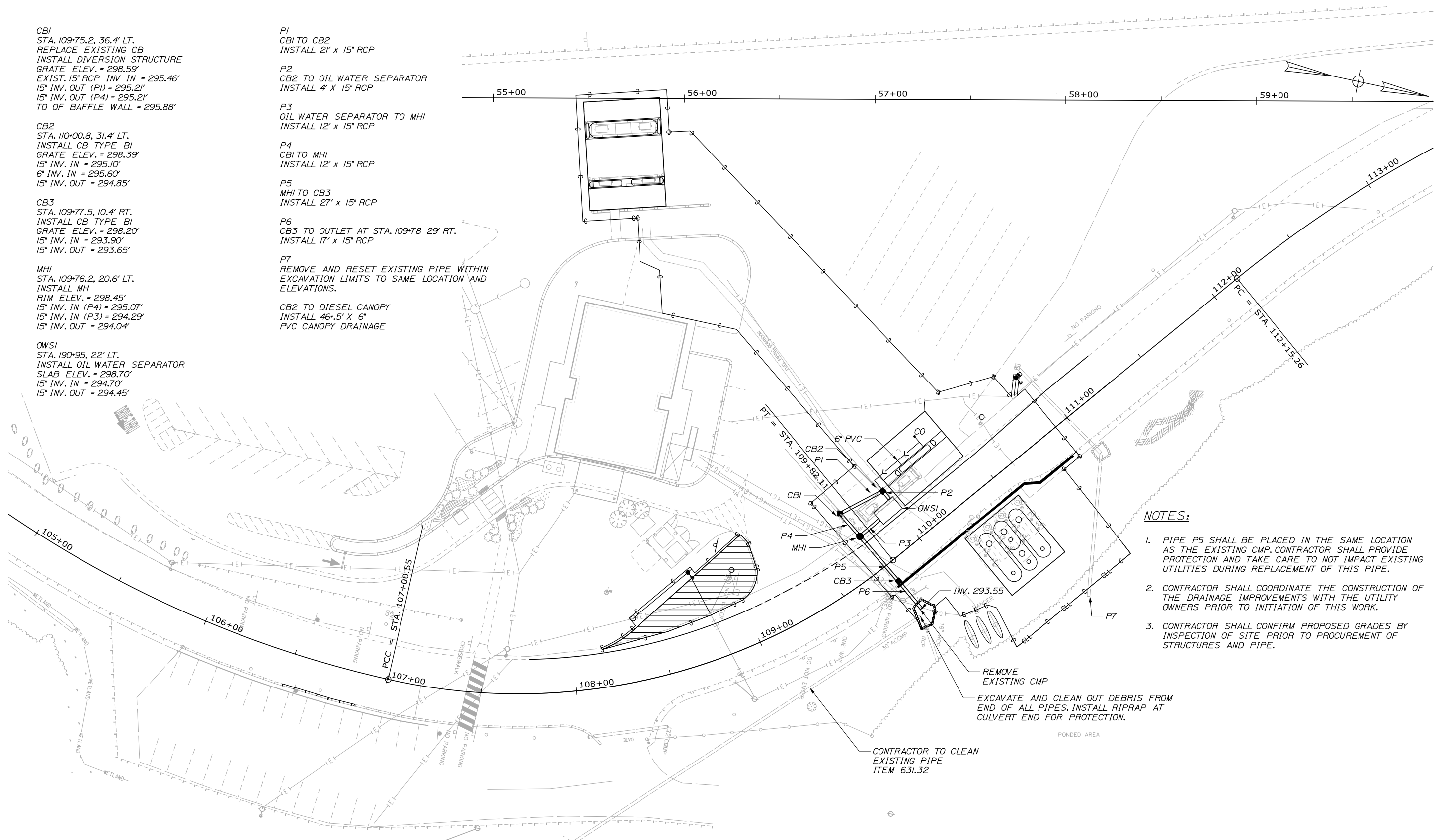
P4
 CB1 TO MHI
 INSTALL 12" x 15" RCP

P5
 MHI TO CB3
 INSTALL 27" x 15" RCP

P6
 CB3 TO OUTLET AT STA. 109+78 29' RT.
 INSTALL 17" x 15" RCP

P7
 REMOVE AND RESET EXISTING PIPE WITHIN
 EXCAVATION LIMITS TO SAME LOCATION AND
 ELEVATIONS.

CB2 TO DIESEL CANOPY
 INSTALL 46.5' x 6"
 PVC CANOPY DRAINAGE

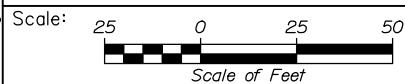


NOTES:

1. PIPE P5 SHALL BE PLACED IN THE SAME LOCATION AS THE EXISTING CMP. CONTRACTOR SHALL PROVIDE PROTECTION AND TAKE CARE TO NOT IMPACT EXISTING UTILITIES DURING REPLACEMENT OF THIS PIPE.
2. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS WITH THE UTILITY OWNERS PRIOR TO INITIATION OF THIS WORK.
3. CONTRACTOR SHALL CONFIRM PROPOSED GRADES BY INSPECTION OF SITE PRIOR TO PROCUREMENT OF STRUCTURES AND PIPE.

REMOVE EXISTING CMP
 EXCAVATE AND CLEAN OUT DEBRIS FROM END OF ALL PIPES. INSTALL RIPRAP AT CULVERT END FOR PROTECTION.

CONTRACTOR TO CLEAN EXISTING PIPE ITEM 631.32



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

**GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT**

DRAINAGE PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
	DSS	6/26/2019	DAM	DAM	6/26/2019
	Drawn	WAD	In Charge of	RAL	6/26/2019

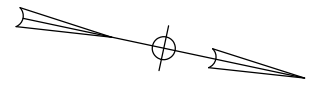
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.15

SHEET NUMBER: SP-02

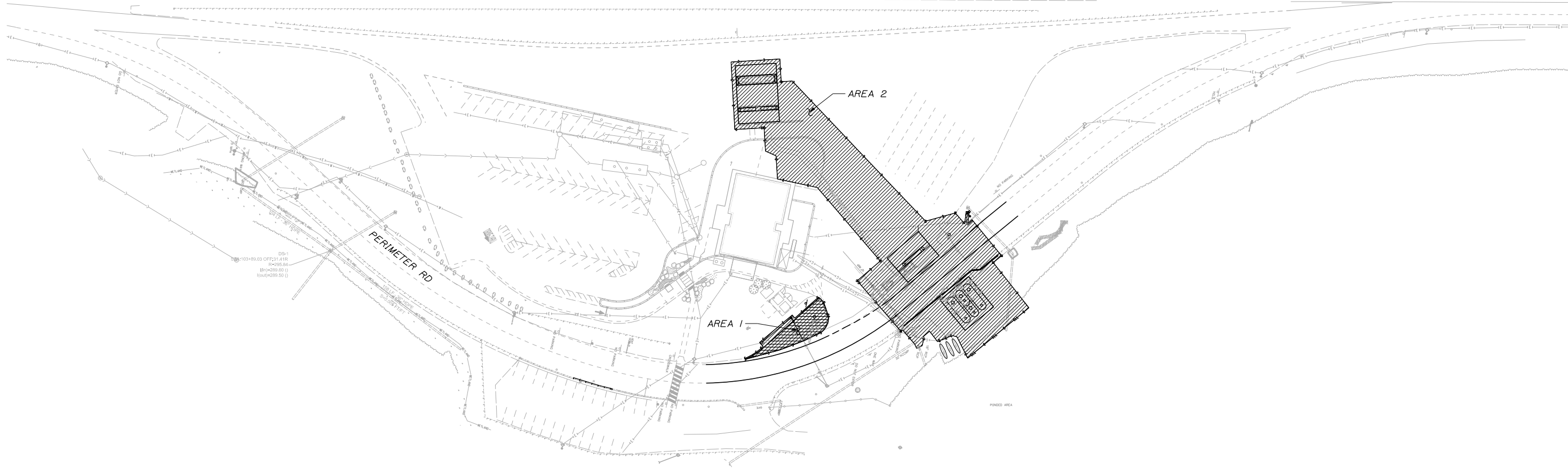
15 OF 32

Filename: 015_Drain Plan.dgn



← MAINE TURNPIKE SB

MAINE TURNPIKE NB →




D15-1
103+89.03 OFF 231' AIR
R=295.84
M1=289.89 (I)
M2=289.92 (I)

PERIMETER RD

AREA 2

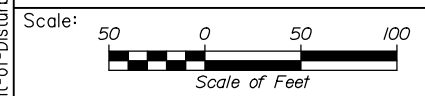
AREA 1

POBEE AREA

 NORTHBOUND PLAZA LIMIT OF DISTURBANCE
 AREA 1 = 1,733 SF
 AREA 2 = 27,251 SF
 TOTAL = 28,984 SF (0.67 ACRES)

Date: 6/26/2019

Filename: 016_Limit-of-Disturbance-Plan.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	Checked	By	Date
Designed	DSS	6/26/2019	Checked	DAM	6/26/2019
Drawn	WAD	6/26/2019	In Charge of	RAL	6/26/2019

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

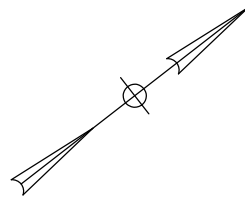
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 LIMIT OF DISTURBANCE PLAN

CONTRACT: 2019.15

SHEET NUMBER: XX-01

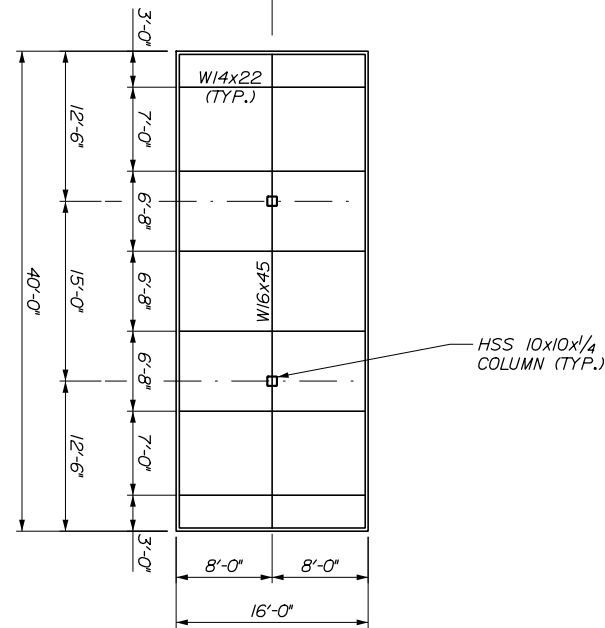
16 OF 32



Date: 6/26/2019

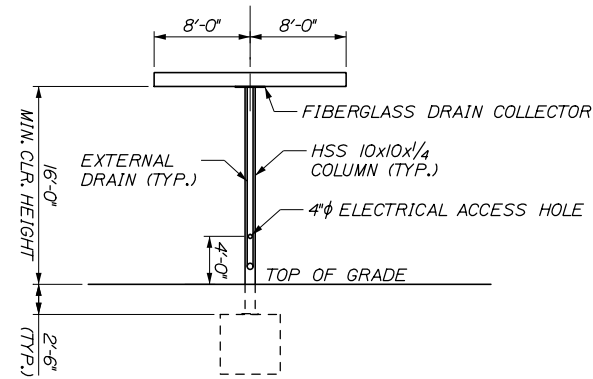
Filename: 017_Canopy Plan and Elevation.dgn

ISLAND 3



PLAN
1/8" = 1'-0"

ISLAND 3



ELEVATION
1/8" = 1'-0"

NOTES:

1. ALL ELEMENT SIZES AND LAYOUT ARE FOR INFORMATION ONLY. CANOPY AND ALL ASSOCIATED SYSTEMS INCLUDING BUT NOT LIMITED TO LIGHTING, ELECTRICAL, FIRE SUPPRESSION, COMMUNICATION, DRAINAGE, ETC., SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH SP800.
2. CANOPY LAYOUT AND DETAILS SHALL BE CONSISTENT WITH DETAILS OF THE DIESEL DISPENSER SLABS SHOWN ON SHEETS S-03 AND S-04.
3. ALL STRUCTURAL STEEL SHALL BE AS FOLLOWS:
 - W SHAPES: ASTM A992
 - HOLLOW STRUCTURAL SHAPES: ASTM A500 GRADE B
 - PLATES: ASTM A572 GRADE 50
 - FASTENERS: F3125
4. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1.
5. DIESEL DISPENSER CANOPY SHOWN, EXISTING GAS CANOPY TO REMAIN.
6. C.N. BROWN WILL PROVIDE CANOPY DECALS FOR FACTORY TO INSTALL. CONTRACTOR TO COORDINATE WITH RESIDENT AND C.N. BROWN ACCORDINGLY.
7. PAYMENT FOR CANOPY DRAINAGE SHALL BE INCIDENTAL TO NEW DIESEL CANOPY INSTALLATION.
8. DIESEL CANOPY DESIGN SHALL PROVIDE 15'-6" CLEARANCE FROM GROUND TO FIRE SUPPRESSION NOZZLE.
9. ALL EXPOSED NEW CONCRETE SHALL BE TREATED WITH CLEAR PROTECTIVE COATING PER MANUFACTURERS RECOMMENDATIONS.

Scale: AS NOTED

Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
DIESEL CANOPY
PLAN AND ELEVATION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JDW	4\19\2019	Checked	DAM	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

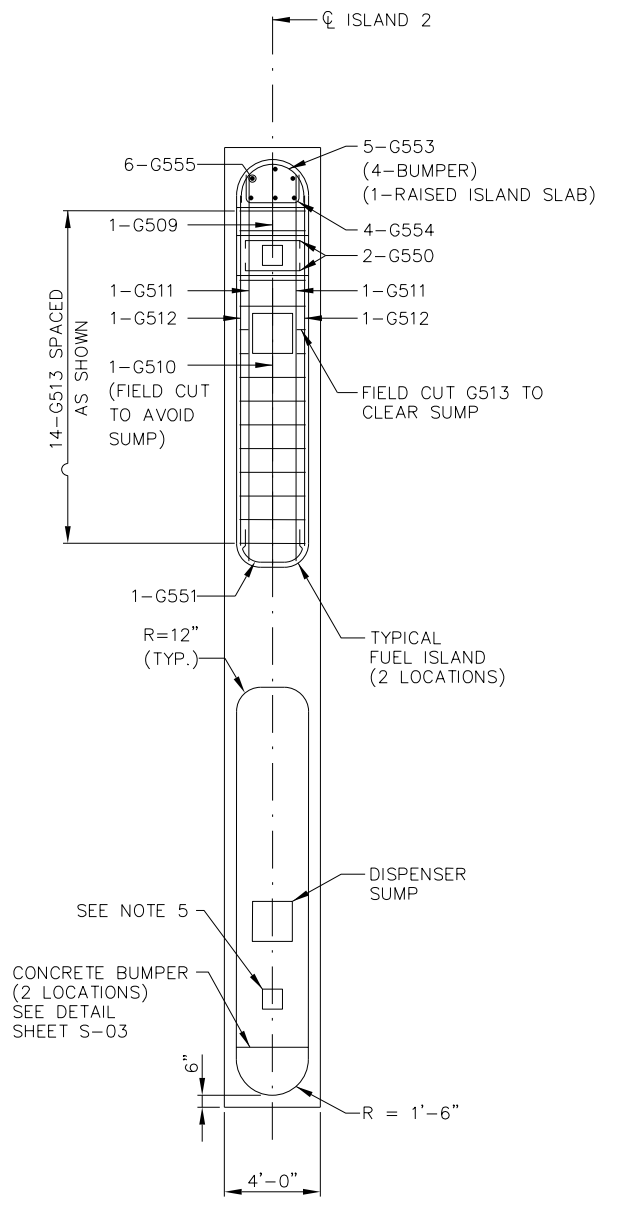
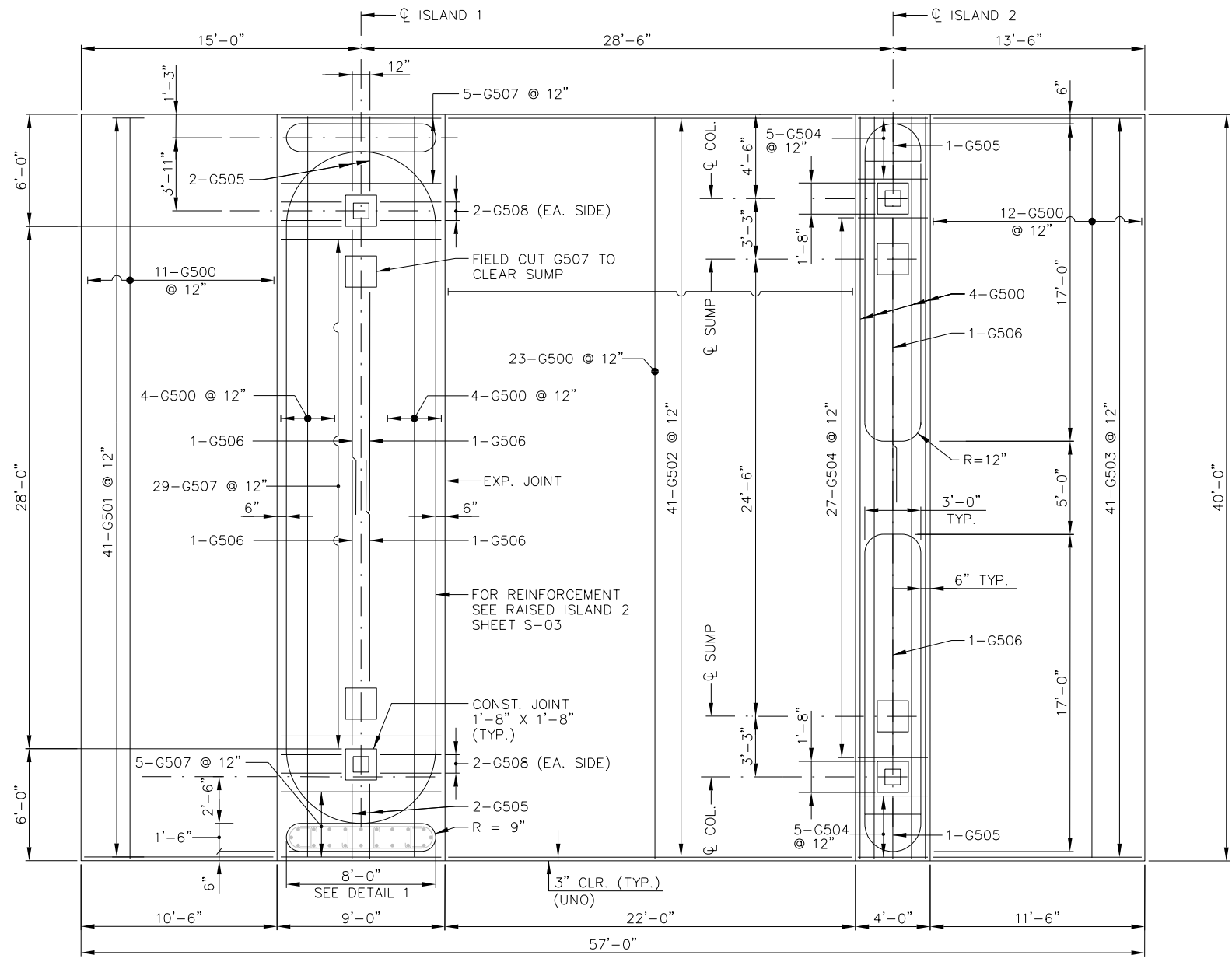
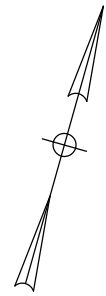
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.15

SHEET NUMBER: S-01

17 OF 32

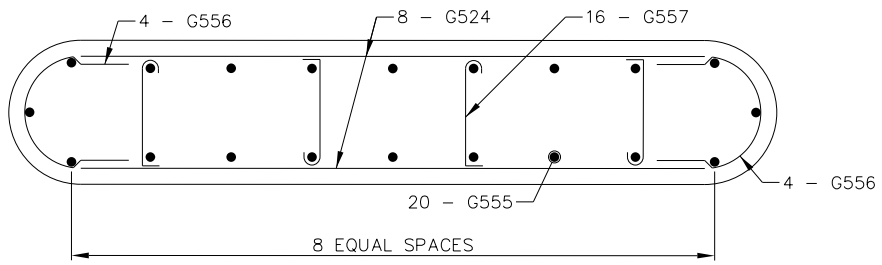
Date:6/26/2019



NOTES

1. CONTRACTOR SHALL VERIFY CANOPY COLUMN SPACING PRIOR TO SUBMITTING REBAR SHOP DRAWINGS FOR APPROVAL.
2. ALL CONCRETE SHALL BE CLASS AAA.
3. CONCRETE SLABS AT THE DISPENSING ISLANDS TO HAVE A BRUSH FINISH.
4. ALL REINFORCING STEEL TO BE EPOXY COATED.
5. CONTRACTOR SHALL VERIFY EXISTING COLUMNS SHALL NOT CONFLICT WITH SLAB OR ISLAND. IF A CONFLICT EXISTS CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING REBAR.
6. ALL EXPOSED CONCRETE TO BE TREATED WITH CLEAR PROTECTIVE COATING.
7. MIN. CLEAR COVER SHALL BE 3" U.N.O.
8. FOR SECTION VIEW OF PLAZA SEE SHEET S-07.

PLAN
GASOLINE PLAZA
1/4" = 1'-0"




DETAIL 1
1/4" = 1'-0"

PLAN
RAISED ISLAND 2
GASOLINE PLAZA
1/4" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	

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**THE GOLD STAR
MEMORIAL HIGHWAY**

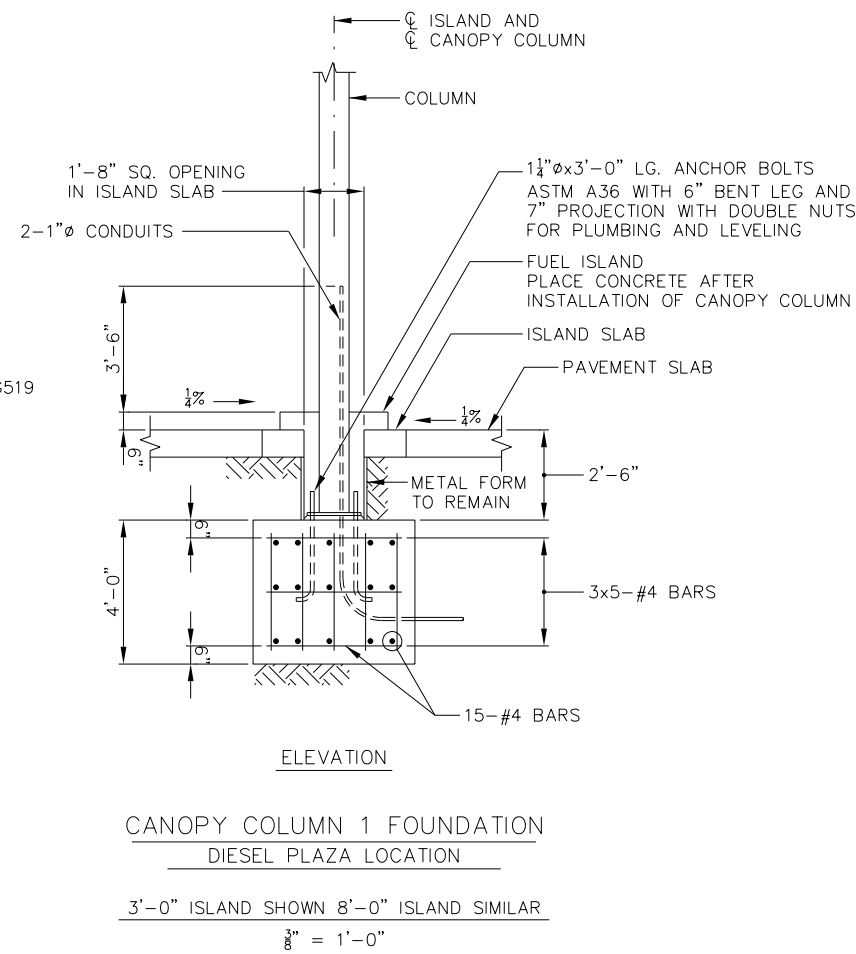
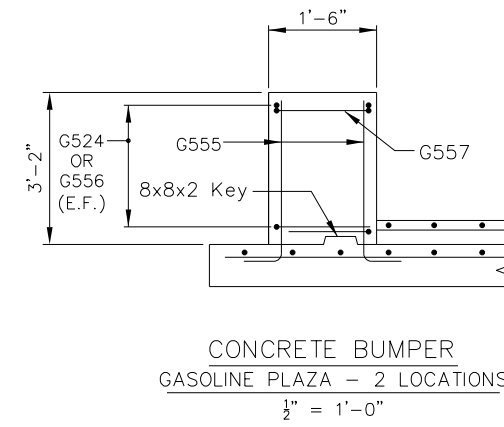
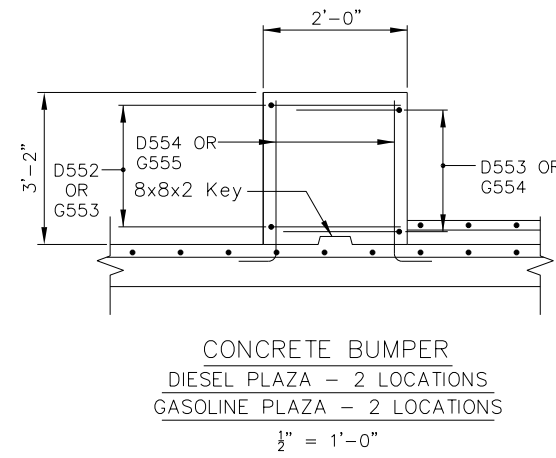
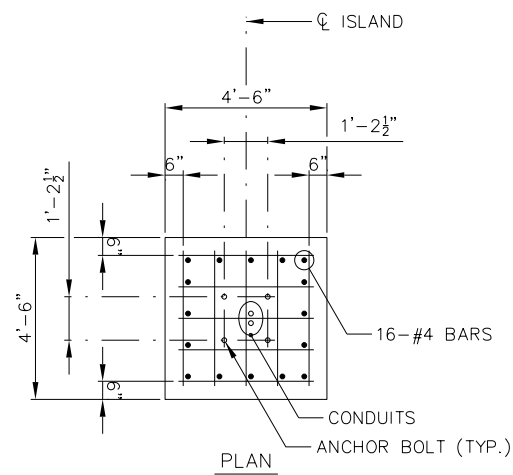
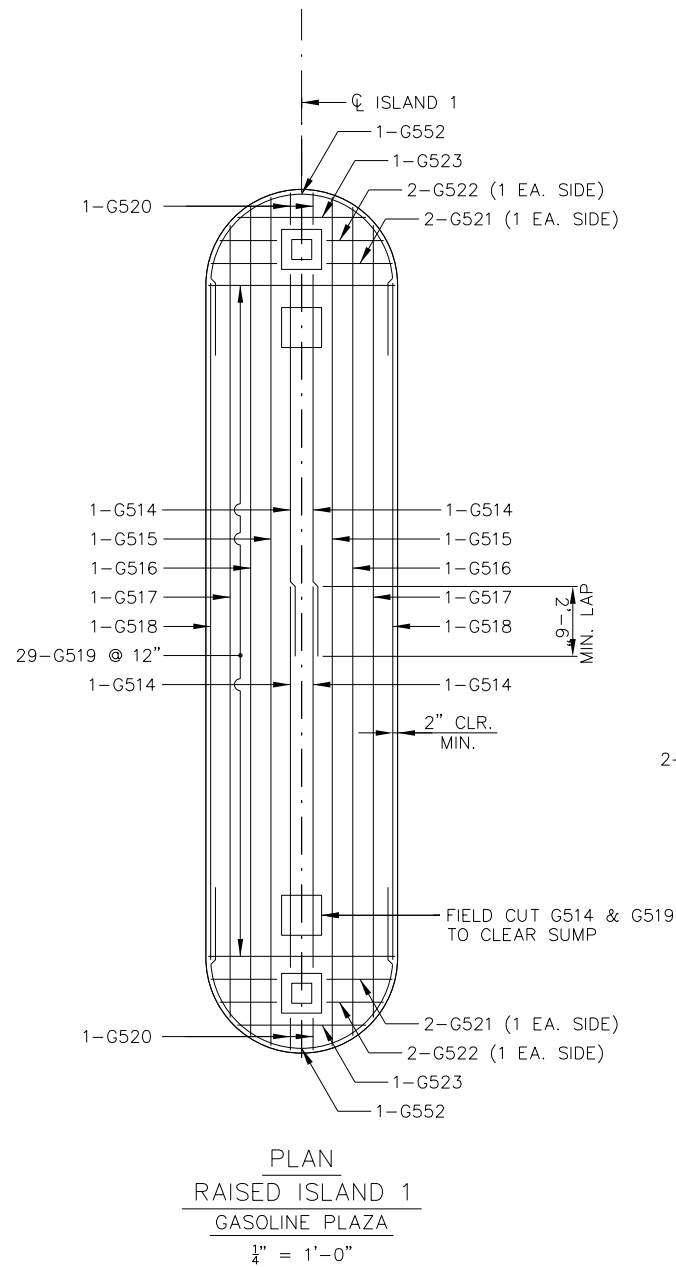
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
CONCRETE SLAB AND ISLANDS
AT GASOLINE DISPENSERS**

SHEET NUMBER: S-02
CONTRACT:2019.15
18 OF 32

Filename: 018_Gas-SlabPlan.dgn

Date: 6/26/2019



- NOTES:
- FOR NOTES SEE SHEET S-02.
 - CANOPY COLUMN FOUNDATION IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE DESIGNED BY THE CANOPY SUPPLIER.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JDW	4\19\2019	Checked	DAM	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

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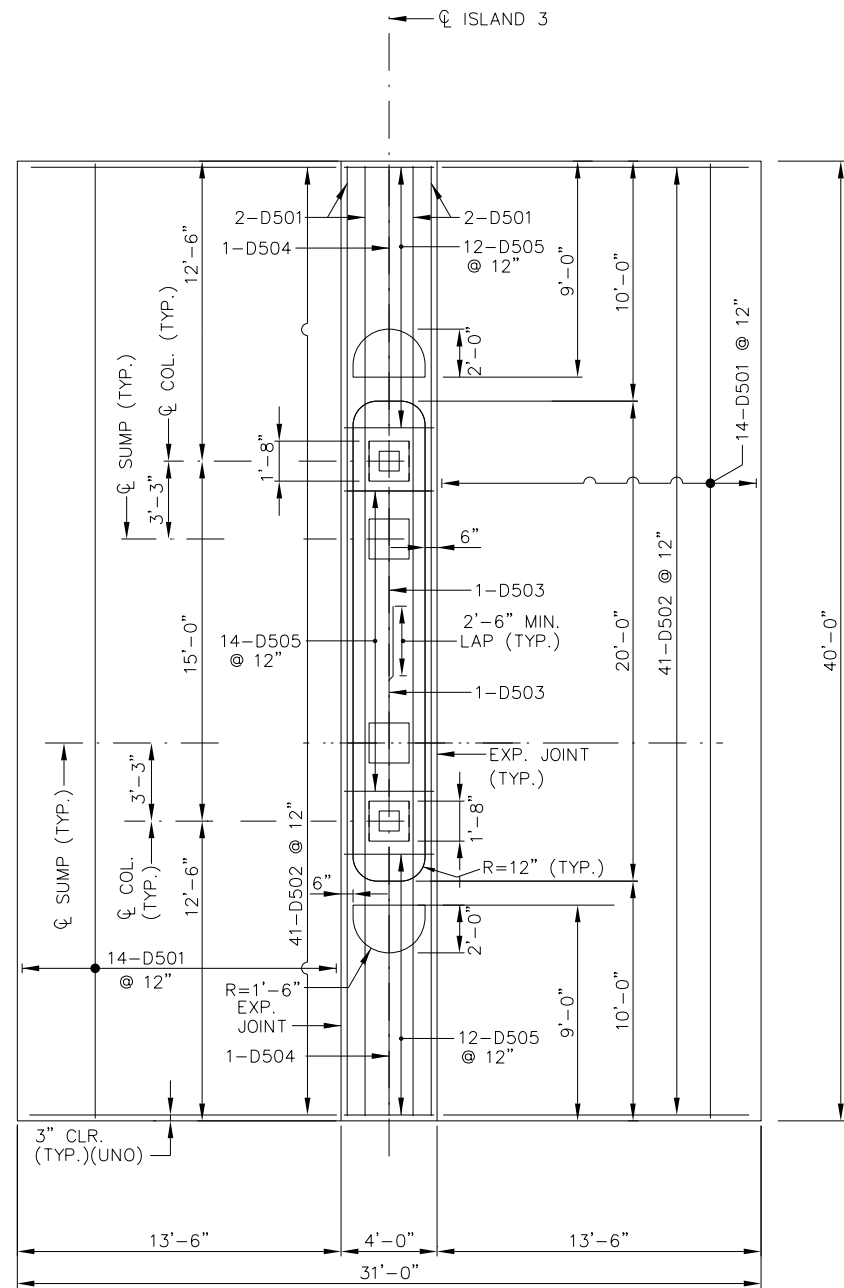
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

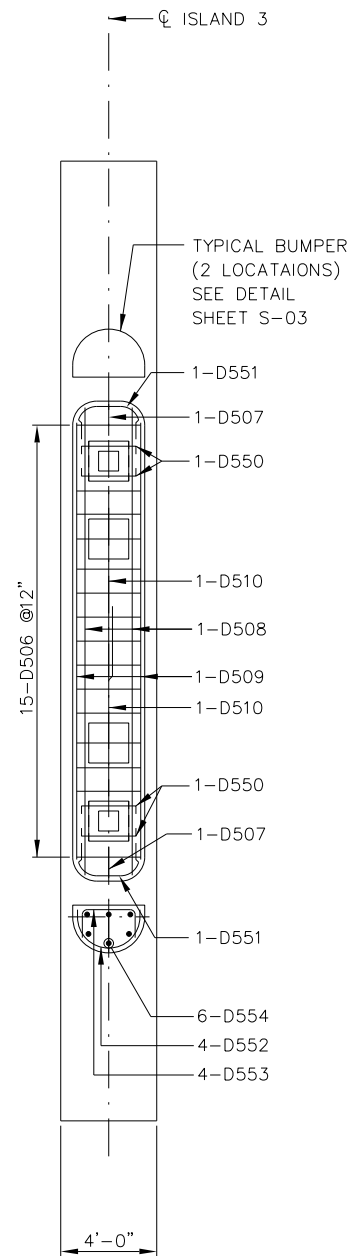
GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
CONCRETE ISLAND 1
CANOPY COLUMN AND BUMPER DETAILS
SHEET NUMBER: S-03
CONTRACT: 2019.15
19 OF 32

Filename: 019_Gas-IslandDtl.dgn

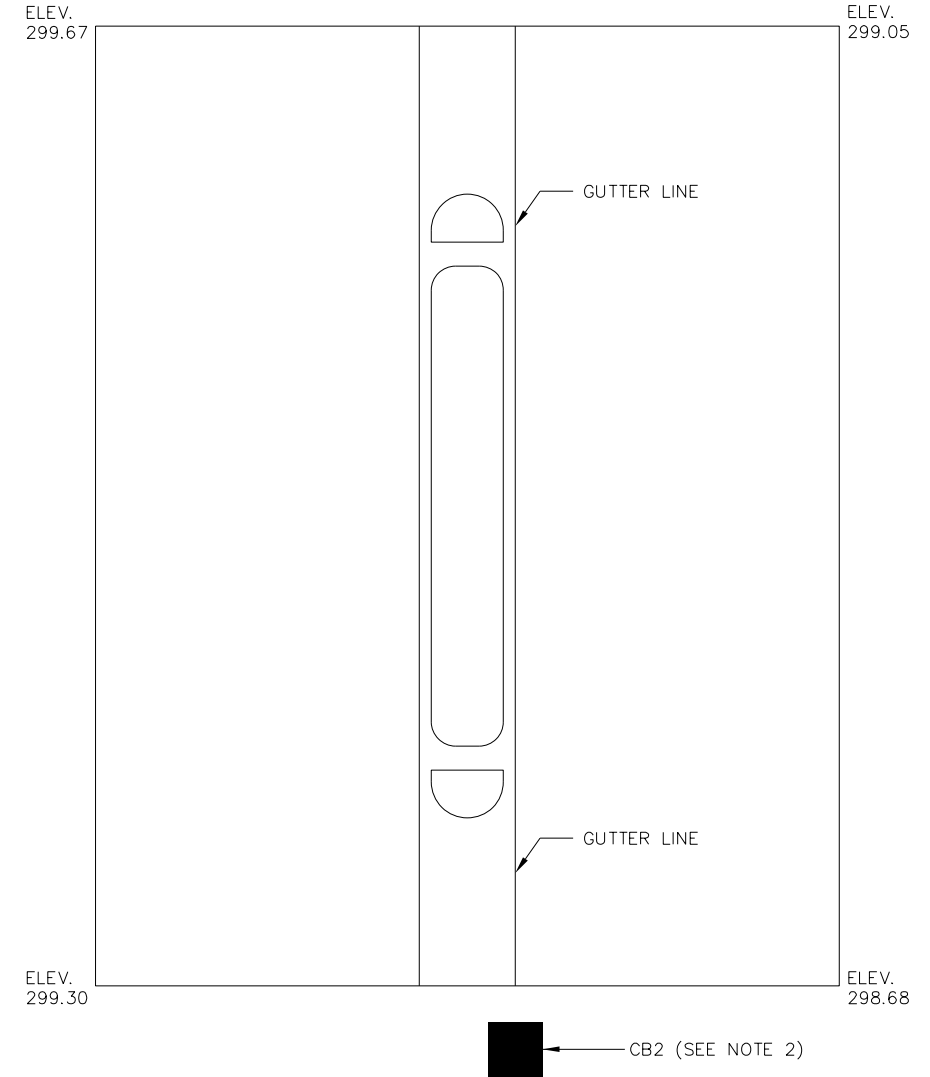
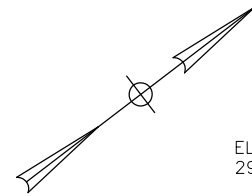
Date: 6/26/2019



PLAN
DIESEL PLAZA
1/4" = 1'-0"



PLAN
RAISED ISLAND 3
DIESEL DISPENSER
1/4" = 1'-0"



DIESEL SLAB, ELEVATION,
AND GRADING DETAIL
1/4" = 1'-0"

NOTES

- FOR NOTES SEE SHEET S-02.
- FIELD CUT D503 BARS TO AVOID SUMP.

NOTES

- CONTRACTOR SHALL FIELD VERIFY PROPOSED ELEVATIONS SHOWN ABOVE PRIOR TO CONSTRUCTION OF SLAB.
- CONTRACTOR SHALL ENSURE THAT SLAB AND SURROUNDING AREA DRAINS TO CB2.

Filename: 020_Diesel-SlabPlan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JDW	4\19\2019	Checked	GLS	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

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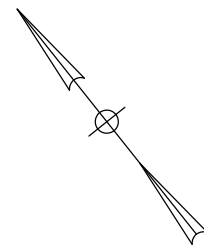
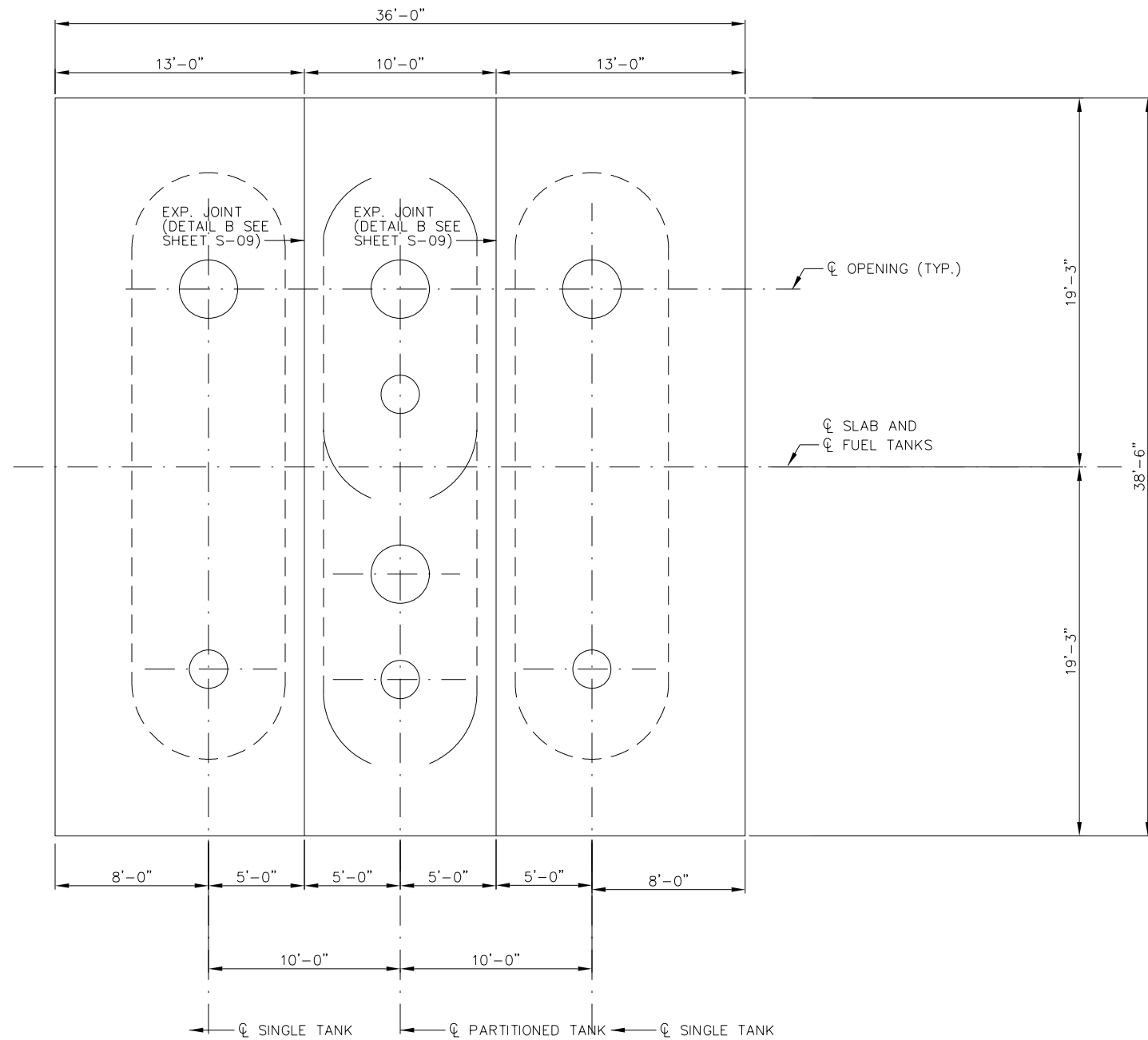
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
CONCRETE SLAB AND ISLANDS
AT DIESEL DISPENSERS

SHEET NUMBER: S-04
CONTRACT: 2019.15
20 OF 32

Date: 6/26/2019



PLAN
FUEL TANK SLAB
1/4" = 1'-0"

NOTES

1. FOR NOTES SEE SHEET S-02.
2. FOR REINFORCING SEE SHEET S-06.
3. OPENINGS ARE APPROXIMATE. SEE MANUFACTURERS SPECIFICATION FOR EXACT LOCATION AND WIDTHS OF OPENINGS.
4. TANK SLAB ELEVATIONS TO BE COORDINATED DURING CONTRACTOR'S FINAL DESIGN AND SUBMITTED FOR REVIEW AND APPROVAL.

Filename: 021_Fuel-SlabPlan.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JDW	4\19\2019	Checked	DAM	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

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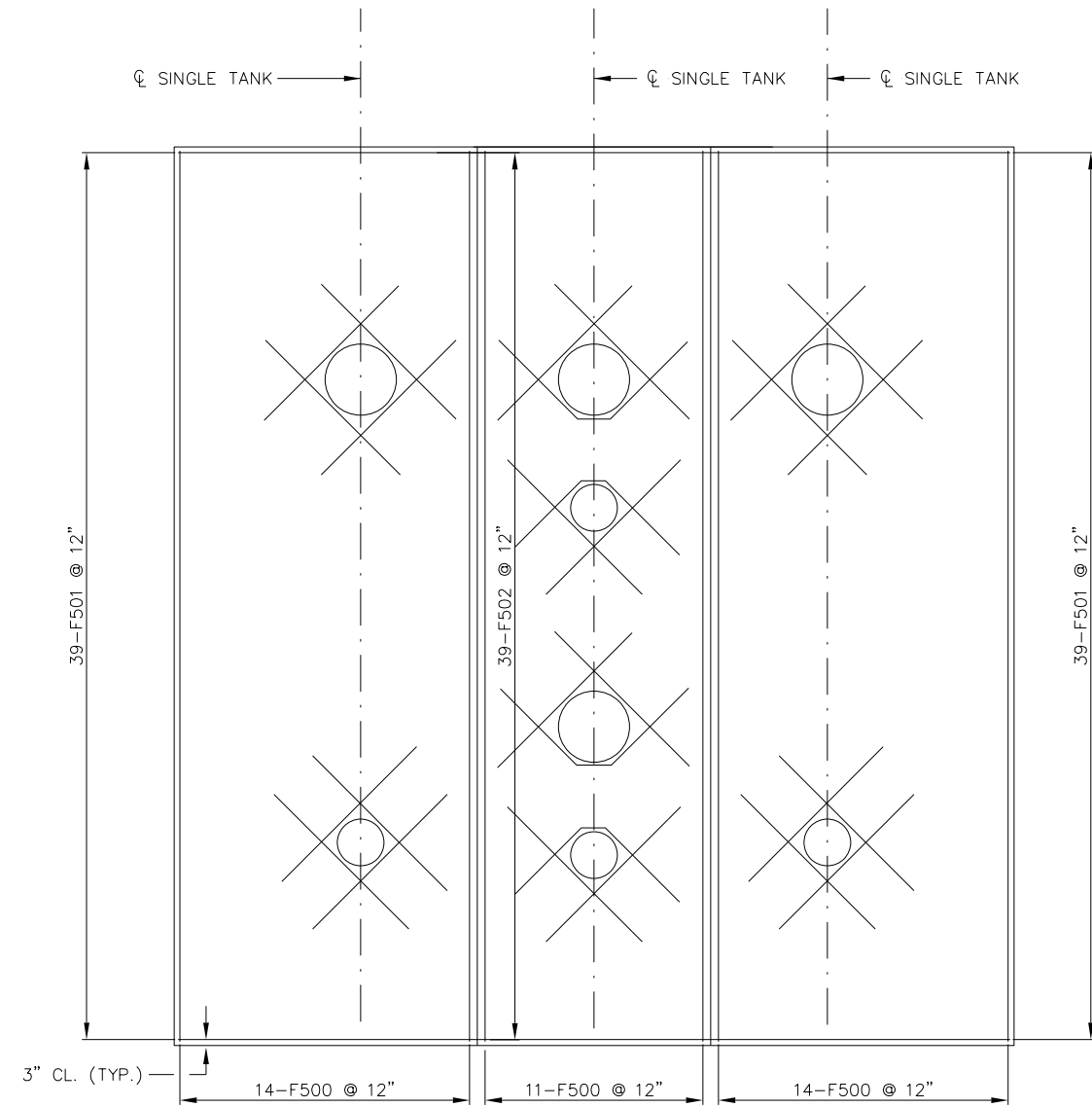
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

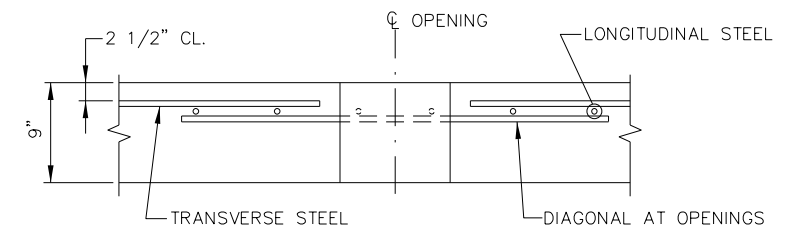
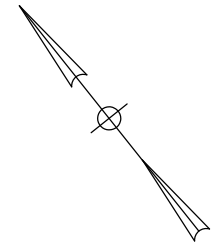
GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
CONCRETE SLABS
AT FUEL STORAGE TANKS

SHEET NUMBER: S-05
CONTRACT: 2019.15
21 OF 32

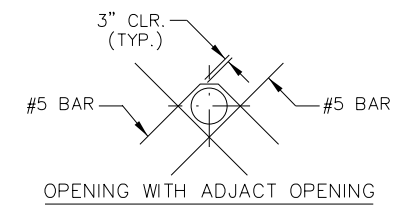
Date: 6/26/2019



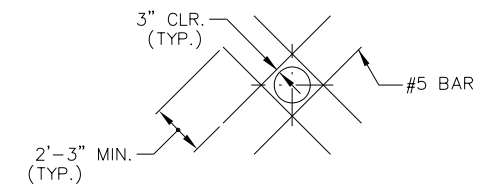
PLAN
FUEL TANK SLAB
1/4" = 1'-0"



SECTION A-A
TYPICAL SLAB OPENING
NO SCALE



OPENING WITH ADJACT OPENING



ISOLATED OPENING

OPENING REINFORCING
1/4" = 1'-0"

NOTES

1. FOR NOTES SEE SHEET S-02.
2. FOR SLAB AND OPENING LAYOUT SEE SHEET S-05.
3. CONTRACTOR SHALL SUBMIT PROPOSED SUPPLEMENTAL OPENING REINFORCING FOR APPROVAL.

Filename: 022_Fuel-SlabReSteel.dgn

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 4\19\2019	Checked	DAM 4\19\2019
				Drawn	WAD 4\19\2019	In Charge of	RAL 4\19\2019

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**THE GOLD STAR
MEMORIAL HIGHWAY**

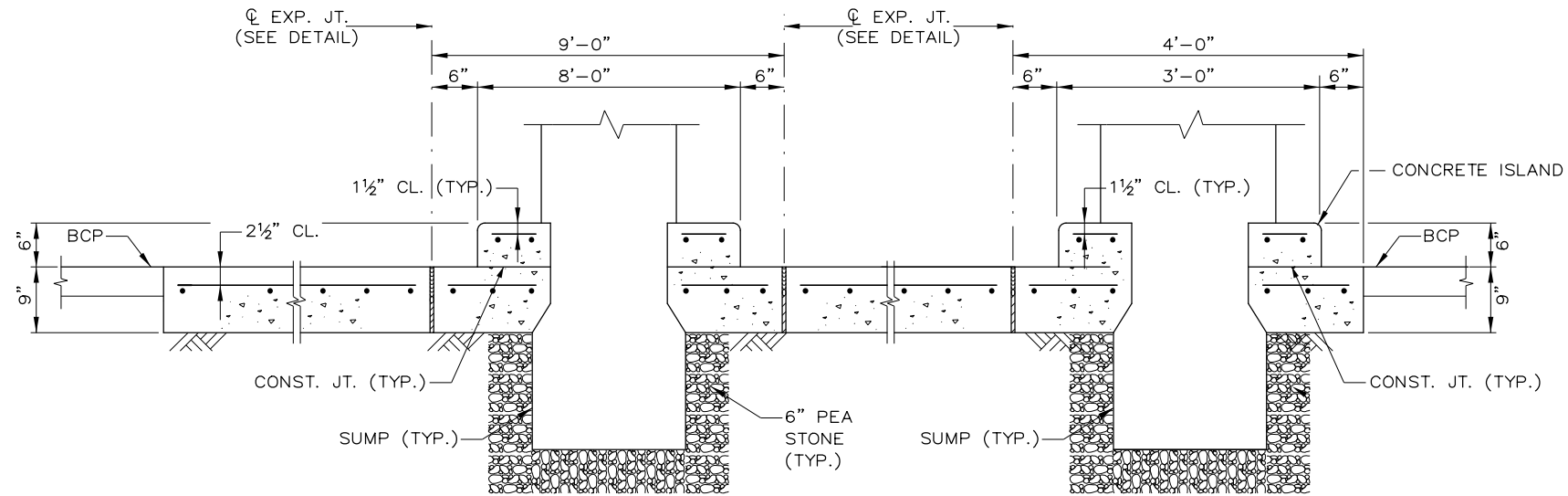
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
REINFORCING DETAILS - CONCRETE
SLABS AT FUEL STORAGE TANKS

SHEET NUMBER: S-06

CONTRACT: 2019.15 22 OF 32

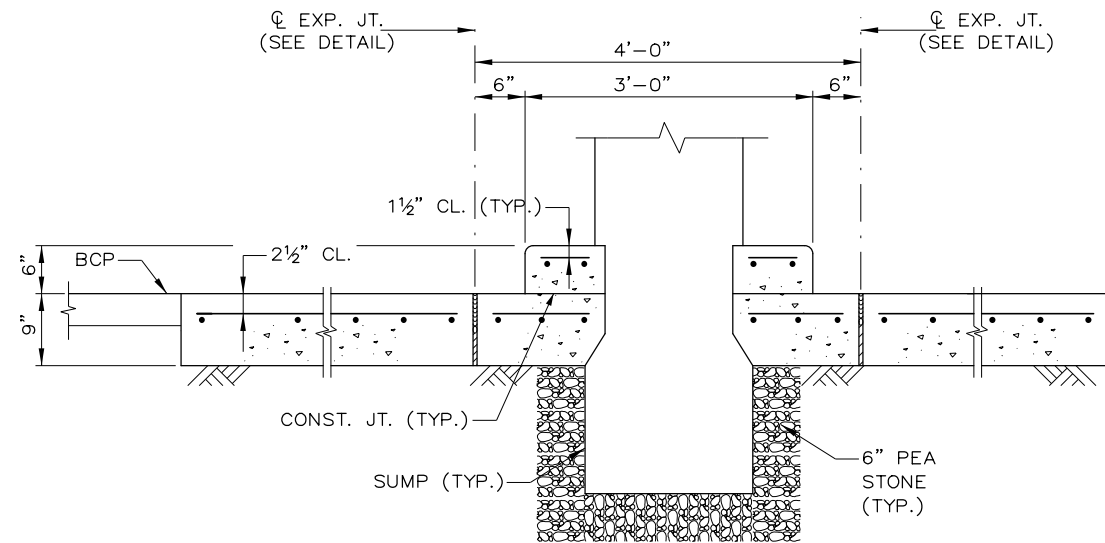
Date: 6/26/2019



ISLAND 1

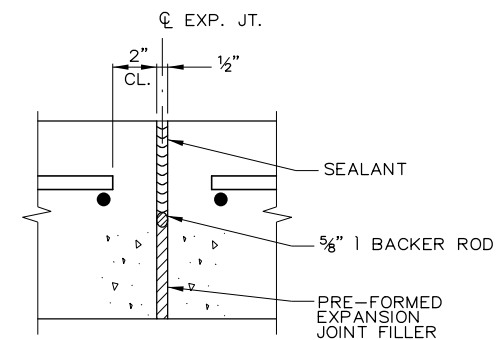
ISLAND 2

GAS DISPENSER ISLAND SECTIONS
SCALE: 1" = 1'-0"

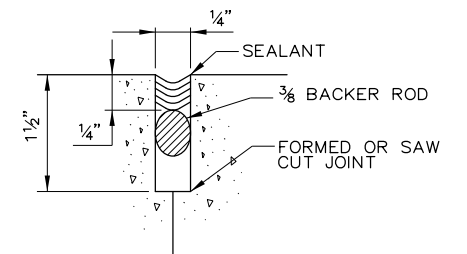


ISLAND 3

DIESEL DISPENSER ISLAND SECTIONS
SCALE: 1" = 1'-0"



EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"



NOTE:
SEALANT SHALL BE PER MDOT SECTION 502
EXCEPT IT SHALL BE FUEL RESISTANT TWO
PART POLYURETHANE OR POLYSULFIDE.


DETAIL B
SCALE: N.T.S.

Filename: 023_DispenDIs.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
Designed	JDW	4\19\2019	Checked	GLS	4\19\2019
Drawn	WAD	4\19\2019	In Charge of	RAL	4\19\2019

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**THE GOLD STAR
MEMORIAL HIGHWAY**

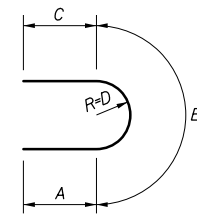
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
DISPENSER SLAB DETAILS**

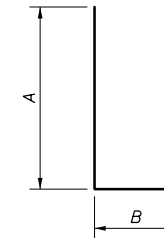
SHEET NUMBER: S-07
CONTRACT: 2019.15
23 OF 32

Date:6/26/2019

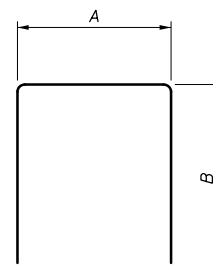
GRAY TRAVEL PLAZA FUEL SYSTEM REPLACEMENT										
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	REMARKS	
GASOLINE DISPENSER SLAB										
G500	5	58	39'	-	6"	Str				
G501	5	41	10'	-	0"	Str				
G502	5	41	21'	-	6"	Str				
G503	5	41	11'	-	0"	Str				
G504	5	37	3'	-	6"	Str				
G505	5	6	3'	-	10"	Str				
G506	5	4	16'	-	0"	Str				
G507	5	39	8'	-	6"	Str				
G508	5	8	3'	-	2"	Str				
G509	5	2	3'	-	4"	Str				
G510	5	2	11'	-	8"	Str				
G511	5	4	15'	-	3"	Str				
G512	5	4	14'	-	6"	Str				
G513	5	28	2'	-	6"	Str				
G514	5	4	16'	-	0"	Str				
G515	5	2	35'	-	1"	Str				
G516	5	2	34'	-	3"	Str				
G517	5	2	32'	-	8"	Str				
G518	5	2	28'	-	6"	Str				
G519	5	29	7'	-	6"	Str				
G520	5	4	1'	-	4"	Str				
G521	5	4	2'	-	8"	Str				
G522	5	4	2'	-	4"	Str				
G523	5	2	5'	-	0"	Str				
G524	5	16	6'	-	0"	Str				
G550	5	4	4'	-	2"	129	2'-6"	10"		
G551	5	2	9'	-	4"	140	3'-0"	1'-2"	1'-0"	9"
G552	5	2	17'	-	3"	117	2'-9"	11'-9"	2'-9"	3'-9"
G553	5	10	4'	-	5"	117	3"	3'-11"	3"	1'-3"
G554	5	8	4'	-	2"	129	2'-2"	1'-0"		
G555	5	52	4'	-	0"	118	3'-2"	10"		
G556	5	16	7'	-	1"	117	2'-9"	1'-7"	2'-9"	6"
G557	5	32	1'	-	11 1/2"	135	6"	1'-0"	5 1/2"	3 3/4"
DIESEL DISPENSER SLAB										
D501	5	32	39'	-	6"	Str				
D502	5	82	13'	-	0"	Str				
D503	5	2	8'	-	9"	Str				
D504	5	2	10'	-	4"	Str				
D505	5	38	3'	-	6"	Str				
D506	5	15	2'	-	6"	Str				
D507	5	2	1'	-	2"	Str				
D508	5	2	19'	-	2"	Str				
D509	5	2	18'	-	1"	Str				
D510	5	2	7'	-	8"	Str				
D550	5	4	4'	-	2"	129	2'-6"	10"		
D551	5	2	9'	-	4"	140	3'-0"	1'-2"	1'-0"	9"
D552	5	8	4'	-	5"	117	3"	3'-11"	3"	1'-3"
D553	5	8	4'	-	2"	129	2'-2"	1'-0"		
D554	5	12	4'	-	0"	118	3'-2"	10"		
FUEL SLAB										
F500	5	39	38'	-	0"	Str				
F501	5	78	12'	-	6"	Str				
F502	5	39	9'	-	6"	Str				



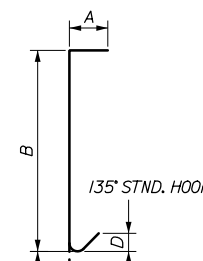
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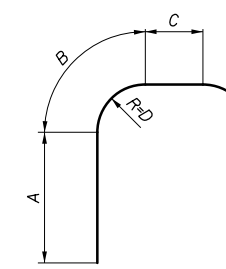
TYPE 118



TYPE 129



TYPE 135



TYPE 140

Filename: 024_Reinforce-Schedule.dgn

Scale: NONE				Designed by:																			
				HNTB																			
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No.	Revision	By	Date																				
Designed		By	Date	Checked		By	Date																
Designed		JDW	4\19\2019	Checked		DAM	4\19\2019																
Drawn		By	Date	In Charge of		By	Date																
Drawn		WAD	4\19\2019	In Charge of		RAL	4\19\2019																

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

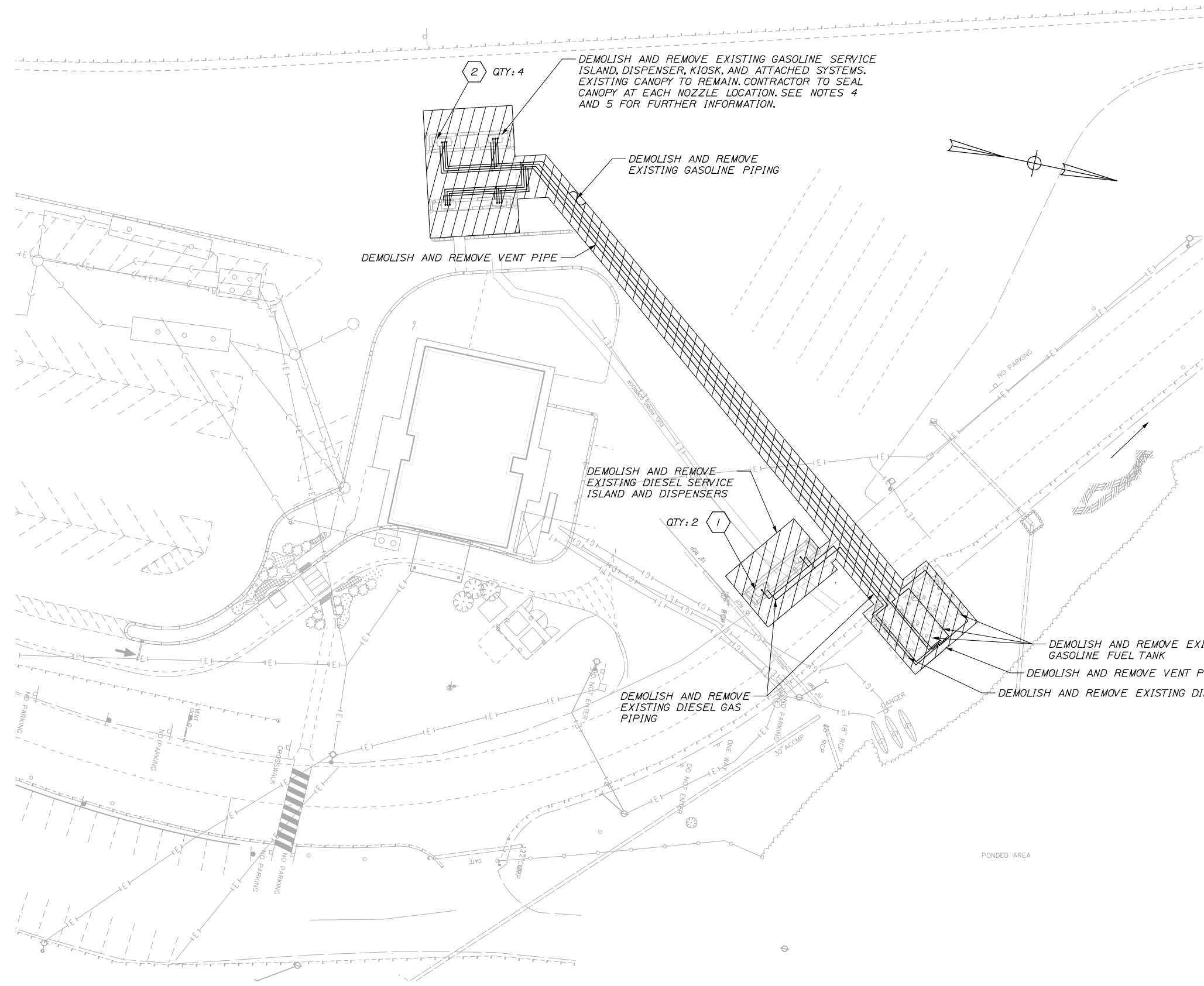
GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

REINFORCING SCHEDULE

SHEET NUMBER: S-8
CONTRACT: 2019.15
24 OF 32

Date: 6/26/2019

Filename: 025_Ex-Fuel_Demo_Plan.dgn



GENERAL NOTES:

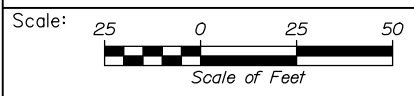
1. DUE TO THE EXISTENCE OF THE FUELING SYSTEM, IT IS ANTICIPATED CONTAMINATED SOILS WILL BE ENCOUNTERED AS PART OF THIS PROJECT. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REFER TO SECTION 203 PETROLEUM CONTAMINATED SOIL DOCUMENTATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING EQUIPMENT (FUEL PIPES, CONDUIT RUNS, MATERIAL, ETC.) AND EXISTING UTILITIES IN THE AREA OF CONCERN FOR LOCATIONS AND SIZES BEFORE BEGINNING WORK.
3. SEE MOT PLANS FOR TRAFFIC AND WORK AREAS.
4. THE CONTRACTOR, IN COORDINATION WITH THE MAINE TURNPIKE AUTHORITY, SHALL INSPECT THE GAS CANOPY COLUMNS FOLLOWING SLAB DEMOLITION FOR NEEDED REPAIRS. IF ANY REPAIRS ARE NEEDED, ANY SUCH COLUMN WORK SHALL BE COMPLETED ON A TIME AND MATERIAL BASIS AGREED TO BY THE AUTHORITY PRIOR TO THE WORK.
5. THE CONTRACTOR, IN COORDINATION WITH THE MAINE TURNPIKE AUTHORITY, SHALL INSPECT THE FIRE SUPPRESSION NOZZLES IN THE CANOPY AND COMPLETE IMPROVEMENTS TO ELIMINATE LEAKING. ANY REPAIRS SHALL BE COMPLETED ON A TIME AND MATERIAL BASIS AGREED TO BY THE AUTHORITY PRIOR TO THE WORK.
6. THE GAS CANOPY, FIRE SUPPRESSION NOZZLES, SLAB ELEVATIONS, AND CLEARANCES SHALL ALL MATCH THE EXISTING. THE CONTRACTOR SHALL DOCUMENT ALL EXISTING GRADES, ELEVATIONS, AND CLEARANCES AND PROVIDE TO RESIDENT ENGINEER PRIOR TO ANY DEMOLITION. FINAL CONTRACTOR SLAB DESIGN SHALL INCLUDE SPOT ELEVATIONS AND SHALL BE SUBMITTED FOR REVIEW BEFORE CONSTRUCTION.

KEY NOTES:

- 1 DIESEL FUEL DISPENSER SHALL BE REMOVED. COORDINATE WITH ELECTRICAL SHEETS FOR REMOVAL OF CONDUIT AND CONDUCTORS BACK TO SOURCE.
- 2 UNLEADED FUEL DISPENSER SHALL BE REMOVED. COORDINATE WITH ELECTRICAL SHEETS FOR REMOVAL OF CONDUIT AND CONDUCTORS BACK TO SOURCE.

LEGEND

AREA AND INFRASTRUCTURE TO BE DEMOLISHED



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	By	Date	
Designed	ADA	6/26/2019	Checked	JSG	6/26/2019
Drawn	ADA	6/26/2019	In Charge of	RAL	6/26/2019

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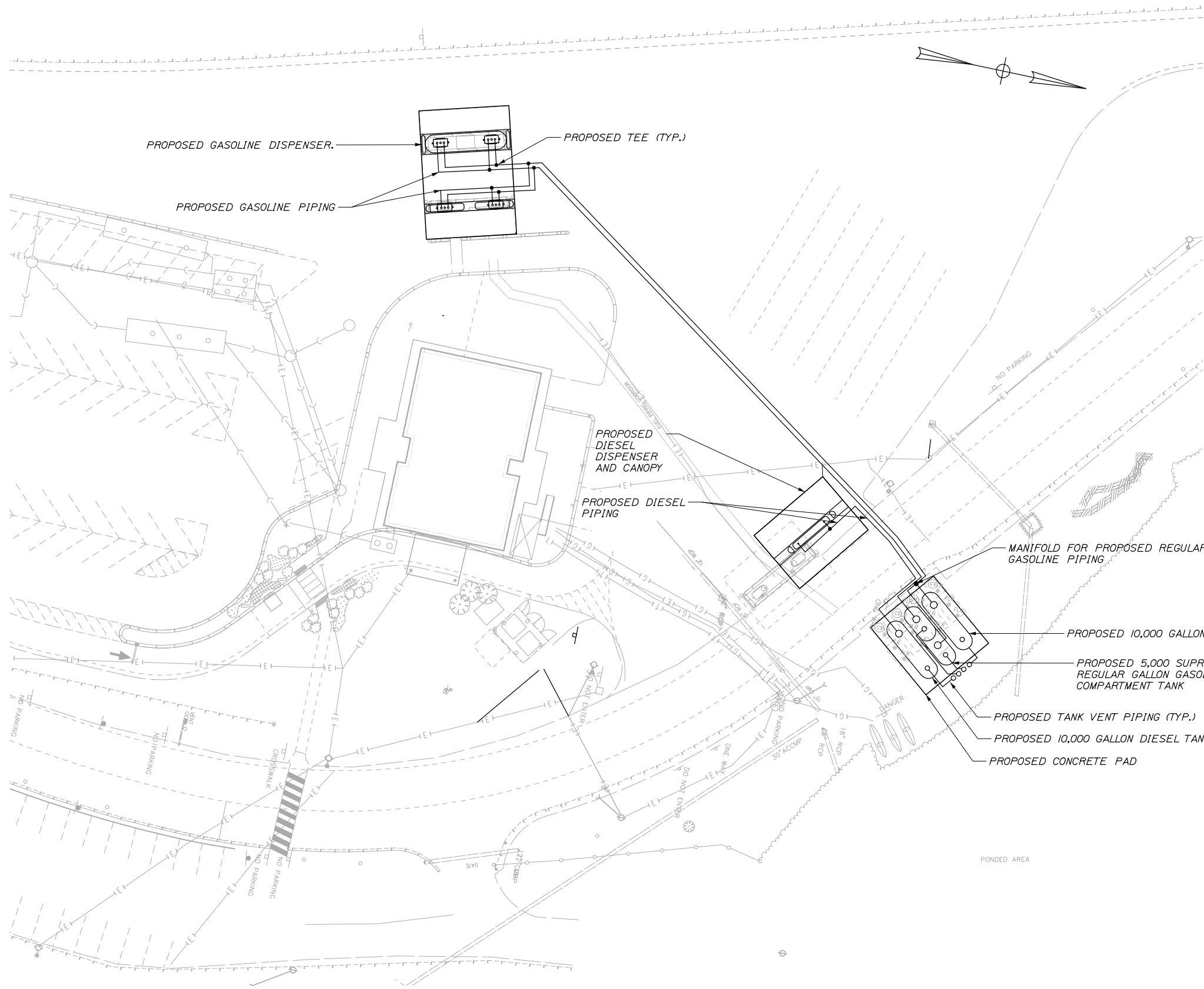
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
SITE PLAN - EXISTING FUEL DEMOLITION

SHEET NUMBER: SP-01
CONTRACT: 2019.15
25 OF 32

Date: 6/26/2019

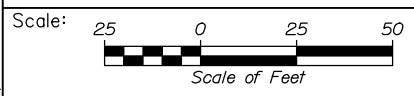


GENERAL NOTES:

1. THE NEW GASOLINE AND DIESEL UNDERGROUND STORAGE TANKS (UST), SUMPS AND COVERS FOR THE GRAY NB SERVICE PLAZA ARE OWNER FURNISHED EQUIPMENT.
2. THE SITE IS TO BE MADE READY PRIOR TO DECOMMISSIONING THE ABOVE GROUND TEMPORARY FUEL STORAGE AND DISPENSING SYSTEMS. NO SHUTDOWN OF THE TEMPORARY FUEL SYSTEM IS ALLOWED UNTIL THE PERMANENT UNDERGROUND FUEL SYSTEMS ARE READY TO BE TESTED, COMMISSIONED AND OPERATIONAL.

THE CONTRACTOR WILL BE ALLOWED UP TO A 24-HOUR SHUTDOWN WITH THE APPROVAL OF THE MTA RESIDENT ENGINEER. FOR SHUTDOWN OF THE EXISTING ABOVE GROUND TEMPORARY SYSTEMS IN ORDER TO TEST AND COMMISSION THE PERMANENT UST SYSTEMS AND PUT THEM INTO FULL OPERATION. A MINIMUM 7-DAY NOTICE SHALL BE GIVEN FOR APPROVAL OF THE SHUTDOWN.
3. THE CONTRACTOR SHALL RELOCATE THE TEMPORARY FUEL EQUIPMENT TO THE OWNER DESIGNATED LOCATION.
4. ALL FUEL LINES SHALL DRAIN BACK TO THE UNDERGROUND STORAGE TANKS AT A MINIMUM 1/8"/FT SLOPE. FUEL LINES SHALL MAINTAIN A MINIMUM 3-FEET OF COVER FROM TOP OF PIPE TO FINAL GRADE. SEE TYPICAL BURIED PIPING SECTION.
5. THE UST AND ABOVE GROUND TEMPORARY FUEL SYSTEM ARE NOT TO BE RUN SIMULTANEOUSLY, USING THE SAME POWER SOURCE, UNLESS OTHERWISE DIRECTED BY THE OWNER.

Filename: 026_Prop-Fuel_Plan.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date	Checked	By	Date
Designed	ADA	6/26/2019	JSM		6/26/2019
Drawn	ADA	6/26/2019	RAL		6/26/2019

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**THE GOLD STAR
MEMORIAL HIGHWAY**

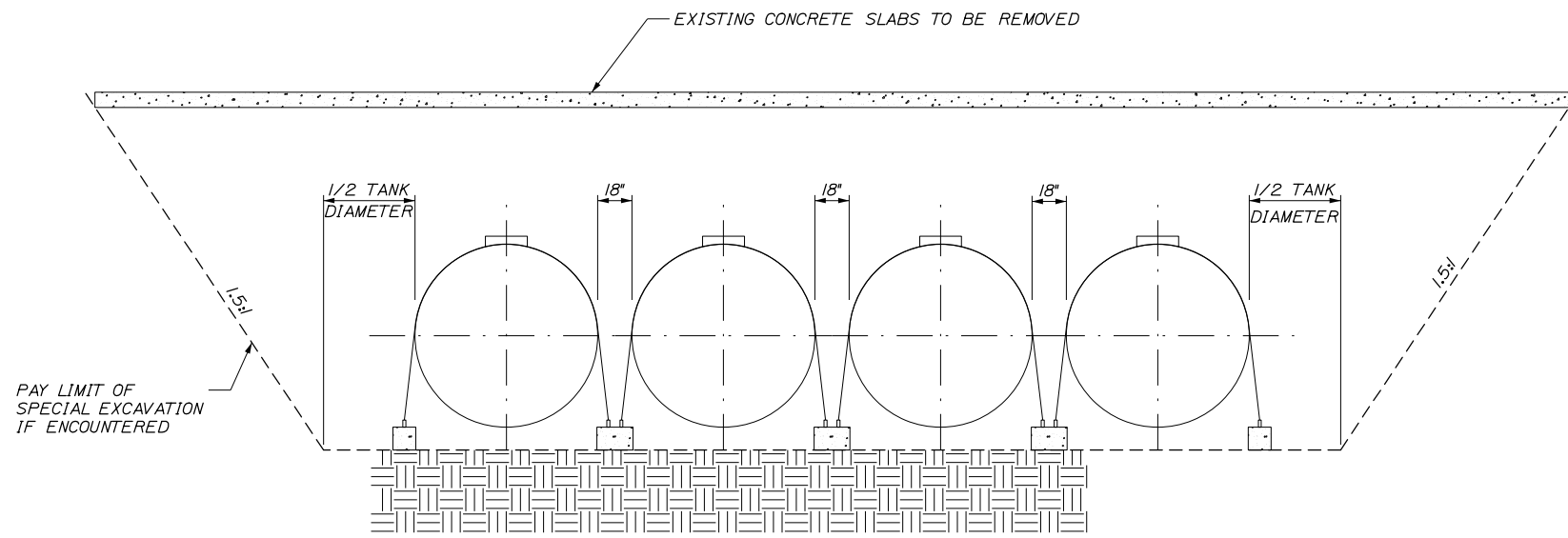
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

SITE PLAN - PROPOSED FUEL DESIGN

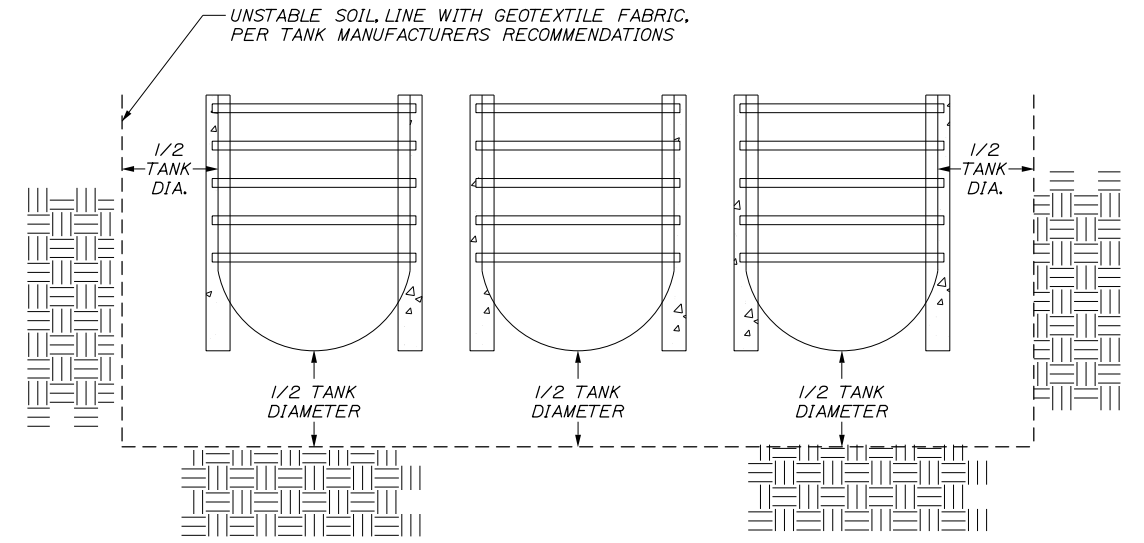
SHEET NUMBER: SP-01
CONTRACT: 2019.15
26 OF 32

Date: 6/26/2019



**UNDERGROUND STORAGE TANK REMOVAL
EXCAVATION LIMITS DETAIL**

N.T.S.



**PROPOSED UNDERGROUND STORAGE TANK
PLAN VIEW**

N.T.S.

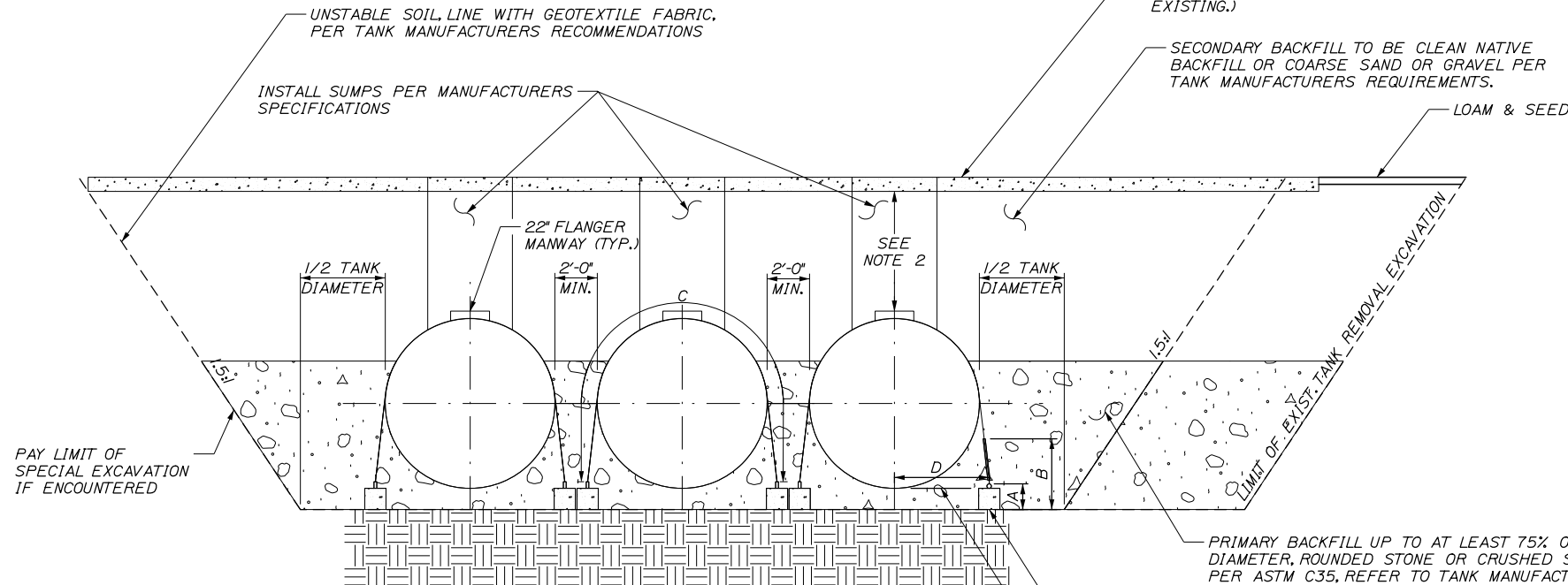
ANCHORING DIMENSIONS				
TANK DIA.	A	B	C	D
8'	14 5/8"	36"	14'-8"	54"

DIMENSION A IS THE DISTANCE FROM THE HOOK POINT ON THE ANCHOR STRAP TO THE BOTTOM OF THE DEADMAN.

DEADMAN DIMENSIONS	
TANK DIA.	TYPICAL DEADMAN DIMENSIONS
8'	12' x 12' x 16'

NOTES:

1. THE 10,000 GALLON UNDER GROUND STORAGE TANK (UST) ARE OWNER FURNISHED EQUIPMENT. REFER TO TANK MANUFACTURER'S SPECIFICATINS FOR INSTALLATION REQUIREMENTS, SUPPLIED, AND REQUIRED ACCESSORIES.
2. CONTRACTOR TO SET UST BURIAL DEPTH BASED ON MEETING THE REQUIRED 1/8 in/ft MINIMUM FUEL PIPE SLOPE AND MINIMUM 3'-0" PIPE BURIAL DEPTH. ALL FUEL PIPES TO DRAIN BACK TO THE USTS.



**PROPOSED UNDERGROUND STORAGE TANKS
ELEVATION VIEW**

N.T.S.

Filename: 027_Trench_Dtl2.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	DSS	ADA	Checked	JSM	4\19\2019
Drawn	WAD	WAD	In Charge of	RAL	4\19\2019

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MAINE TURNPIKE

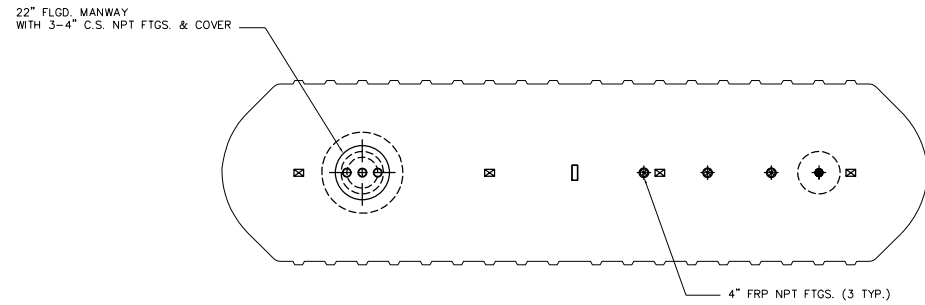
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

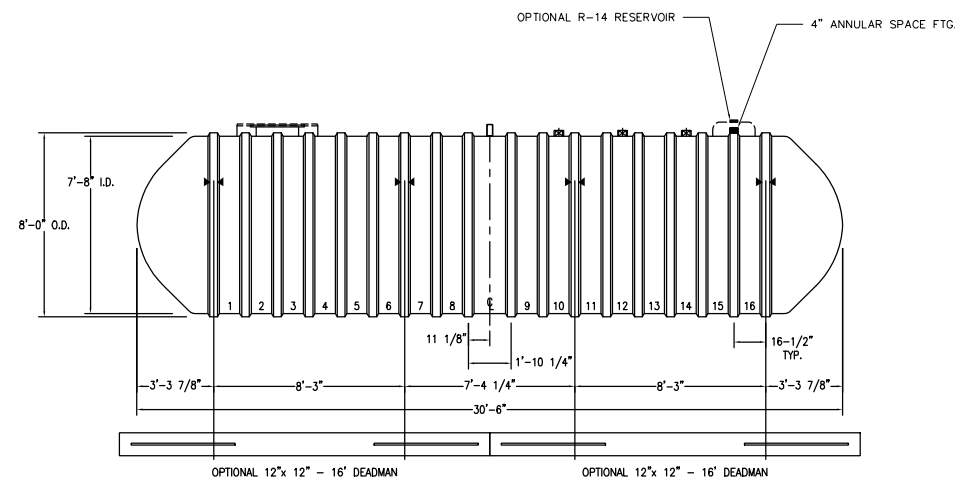
GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
FUEL TANK DETAILS

SHEET NUMBER: TD-02
CONTRACT: 2019.15
27 OF 32

Date: 6/26/2019



PLAN

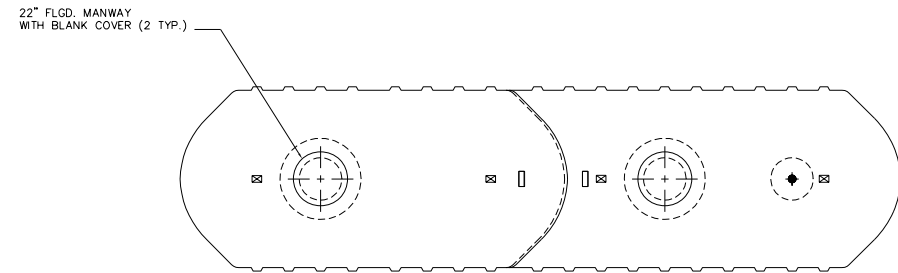


ELEVATION

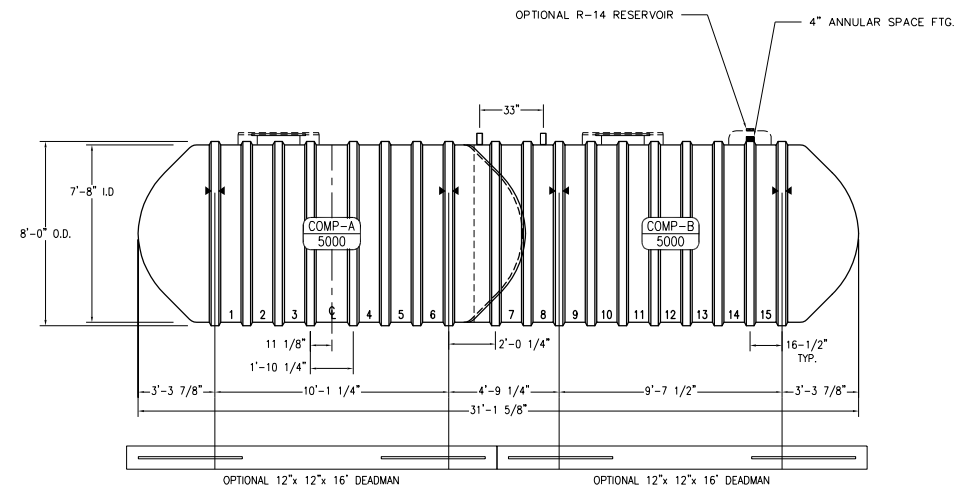
- NOTES:
- ☒ HOLD DOWN STRAP CLIP
 - ▶ HOLD DOWN STRAP LOCATION
 - TYPE "13" LIFT LUG - SD
 - TYPE "13" LIFT LUG - HD

TYPICAL 10,000 GALLON
UNDERGROUND STORAGE TANK
SCALE: NONE

1



PLAN



ELEVATION

- NOTES:
- ☒ HOLD DOWN STRAP CLIP
 - ▶ HOLD DOWN STRAP LOCATION
 - TYPE "13" LIFT LUG - SD
 - TYPE "13" LIFT LUG - HD

10,000 GALLON (50/50 SPLIT) UNDERGROUND
COMPARTMENT STORAGE TANK SYSTEM
SCALE: NONE

2

NOTES:

1. THESE DETAILS ARE PROVIDED FOR CONTRACTORS INFORMATION OF OWNER-FURNISHED UNDERGROUND STORAGE TANKS. THE TANKS ARE BEING PROCURED FROM CONTAINMENT SOLUTIONS INCORPORATED.

Filename: 028_Fuel_Tank_Dtl.dgn

Scale:				Designed by:					
NOT TO SCALE				HNTB					
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
				By	Date	By	Date		
				Designed	N/A	N/A	Checked	N/A	N/A
				Drawn	N/A	N/A	In Charge of	N/A	N/A

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	N/A	N/A	Checked
Drawn	N/A	N/A	In Charge of

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

FUEL TANK DETAILS

SHEET NUMBER: M5

CONTRACT: 2019.15

28 OF 32

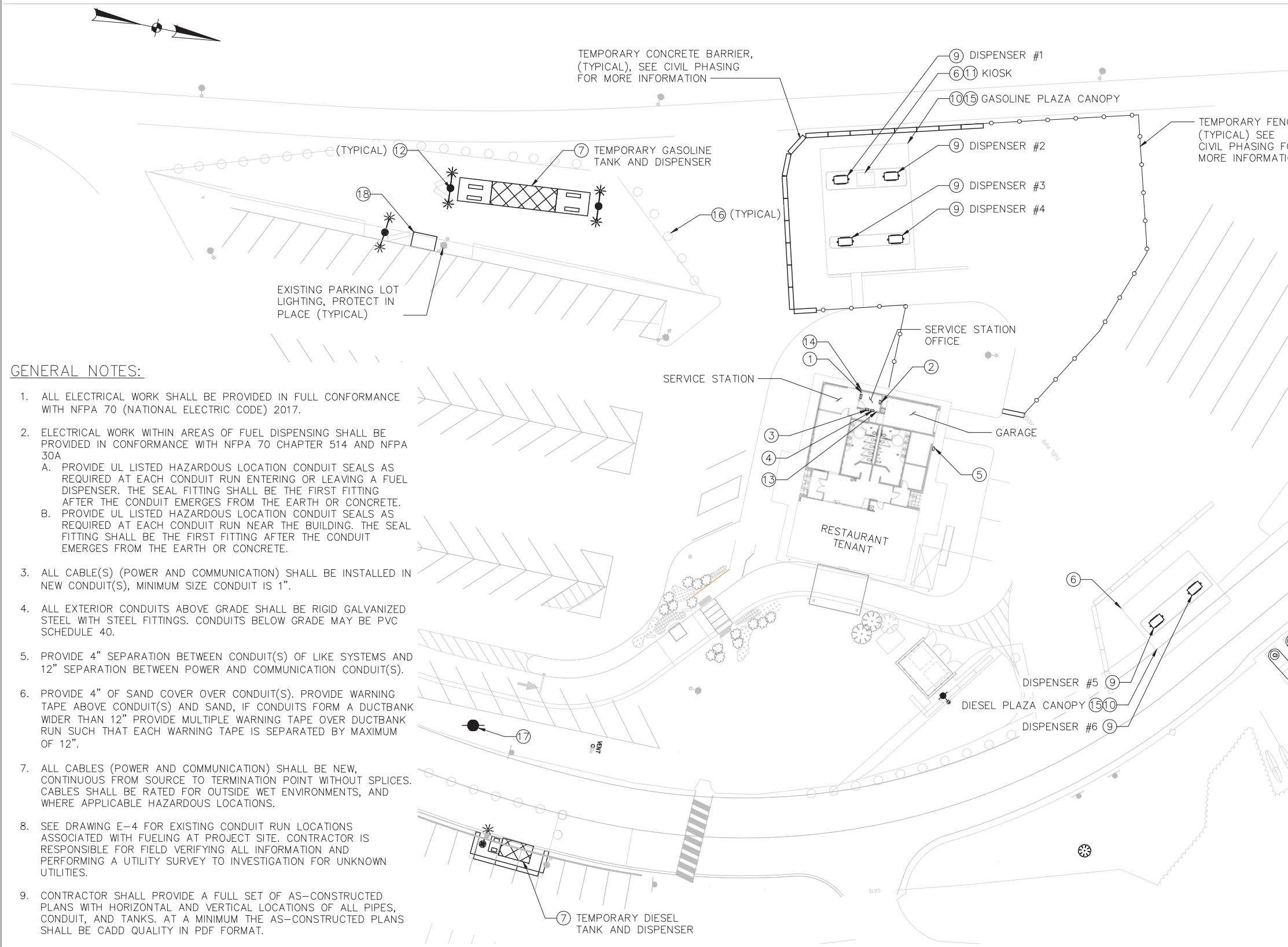
KEY NOTES:

- ① EXISTING ELECTRICAL PANEL "SSP". CONTRACTOR SHALL REPLACE AND UPGRADE WITH NEW PANEL.
- ② REMOVE EXISTING VEEDER-ROOT PANEL AND TURN OVER TO MTA. CONTRACTOR SHALL REPLACE AND UPGRADE FUEL TANK MONITORING AND LEAK DETECTION SYSTEM.
- ③ EXISTING FIRE SUPPRESSION PANEL. CONTRACTOR SHALL REPLACE AND UPGRADE WITH NEW PANEL.
- ④ EXISTING COMMUNICATION PANEL. CONTRACTOR SHALL REPLACE AND UPGRADE WITH NEW PANEL.
- ⑤ EXISTING COMBO DISCONNECT/METER ENCLOSURE.
- ⑥ PROVIDE FOUR (4) NEW 1-1/2" CONDUITS BACK TO SERVICE STATION OFFICE FOR FUTURE CONNECTIONS. TWO (2) SHALL BE FOR FUTURE CAMERAS, ONE (1) SHALL BE FOR FUTURE KIOSK COMM, AND ONE (1) SHALL BE FOR FUTURE KIOSK POWER. NEW CONDUITS SHALL TERMINATE INTO NEW IN CURB JUNCTION BOXES, ONE FOR COMM AND ONE FOR POWER. JUNCTION BOXES SHALL BE H20 RATED AND SIZED PER NEC.
- ⑦ FEED TEMPORARY DISPENSERS FROM EXISTING PANEL SSP AND PROVIDE TEMPORARY EMERGENCY FUEL SHUT OFF SYSTEM.
- ⑧ CONTRACTOR SHALL PROVIDE NEW PUMPS AND MONITORING SYSTEM FOR NEW FUEL STORAGE TANKS. SEE MECHANICAL DRAWINGS FOR QUANTITY, SIZE AND FLOW REQUIREMENTS.
- ⑨ EXISTING DUEL DISPENSER, CONTRACTOR SHALL REPLACE AND UPGRADE WITH NEW DUEL DISPENSER, FOR GASOLINE PLAZA UPGRADE TO BLENDING STYLE.
- ⑩ CONTRACTOR SHALL PROVIDE NEW LED LIGHTING THAT IS CONTROLLED (TIMER AND DIMMER) AT SERVICE STATION OFFICE. EACH PLAZA SHALL BE INDEPENDENTLY CONTROLLED.
- ⑪ EXISTING KIOSK, CONTRACTOR SHALL REMOVE.
- ⑫ CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AS REQUIRED, TEMPORARY LIGHTING FEED FROM EXISTING PANEL SSP.
- ⑬ CONTRACTOR SHALL PROVIDE EMERGENCY FUEL SHUT OFF SYSTEM IN ACCORDANCE WITH NFPA 70 CHAPTER 514 AND NFPA 30A.
- ⑭ CONTRACTOR SHALL PROVIDE TIMER AND DIMMER PANEL FOR CANOPY LIGHTING AND SIGNAGE.
- ⑮ PROVIDE HEAT TRACE AT CANOPY TO PREVENT ICE AT DRAINS AND EDGES.
- ⑧ EXISTING 10,000 GALLON GASOLINE UST
- EXISTING UST VENT PIPE (TYP)
- ⑧ EXISTING 10,000 GALLON DIESEL UST

KEY NOTES CONT'D:

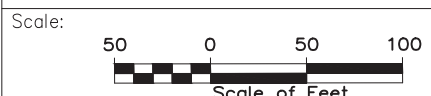
- ⑯ DRUM, SEE CIVIL PHASING FOR MORE INFORMATION.
- ⑰ TEMPORARY AERIAL SUPPORT POLE
- ⑱ TEMPORARY KIOSK, APPROXIMATE LOCATION

Date: 6/25/19



GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE PROVIDED IN FULL CONFORMANCE WITH NFPA 70 (NATIONAL ELECTRIC CODE) 2017.
2. ELECTRICAL WORK WITHIN AREAS OF FUEL DISPENSING SHALL BE PROVIDED IN CONFORMANCE WITH NFPA 70 CHAPTER 514 AND NFPA 30A
 - A. PROVIDE UL LISTED HAZARDOUS LOCATION CONDUIT SEALS AS REQUIRED AT EACH CONDUIT RUN ENTERING OR LEAVING A FUEL DISPENSER. THE SEAL FITTING SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM THE EARTH OR CONCRETE.
 - B. PROVIDE UL LISTED HAZARDOUS LOCATION CONDUIT SEALS AS REQUIRED AT EACH CONDUIT RUN NEAR THE BUILDING. THE SEAL FITTING SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM THE EARTH OR CONCRETE.
3. ALL CABLE(S) (POWER AND COMMUNICATION) SHALL BE INSTALLED IN NEW CONDUIT(S), MINIMUM SIZE CONDUIT IS 1".
4. ALL EXTERIOR CONDUITS ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL WITH STEEL FITTINGS. CONDUITS BELOW GRADE MAY BE PVC SCHEDULE 40.
5. PROVIDE 4" SEPARATION BETWEEN CONDUIT(S) OF LIKE SYSTEMS AND 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUIT(S).
6. PROVIDE 4" OF SAND COVER OVER CONDUIT(S). PROVIDE WARNING TAPE ABOVE CONDUIT(S) AND SAND, IF CONDUITS FORM A DUCTBANK WIDER THAN 12" PROVIDE MULTIPLE WARNING TAPE OVER DUCTBANK RUN SUCH THAT EACH WARNING TAPE IS SEPARATED BY MAXIMUM OF 12".
7. ALL CABLES (POWER AND COMMUNICATION) SHALL BE NEW, CONTINUOUS FROM SOURCE TO TERMINATION POINT WITHOUT SPLICES. CABLES SHALL BE RATED FOR OUTSIDE WET ENVIRONMENTS, AND WHERE APPLICABLE HAZARDOUS LOCATIONS.
8. SEE DRAWING E-4 FOR EXISTING CONDUIT RUN LOCATIONS ASSOCIATED WITH FUELING AT PROJECT SITE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL INFORMATION AND PERFORMING A UTILITY SURVEY TO INVESTIGATION FOR UNKNOWN UTILITIES.
9. CONTRACTOR SHALL PROVIDE A FULL SET OF AS-CONSTRUCTED PLANS WITH HORIZONTAL AND VERTICAL LOCATIONS OF ALL PIPES, CONDUIT, AND TANKS. AT A MINIMUM THE AS-CONSTRUCTED PLANS SHALL BE CADD QUALITY IN PDF FORMAT.



Designed by:

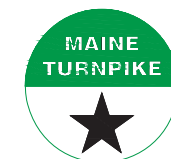
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CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MDB	04/05	Checked	DAM	04/19
Drawn	KLM	04/05	In Charge of	RAL	04/19

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THE GOLD STAR
 MEMORIAL HIGHWAY

GRAY SERVICE PLAZA
 FUEL SYSTEM REPLACEMENT
 SITE PLAN - ELECTRICAL

Filename: E1.dwg

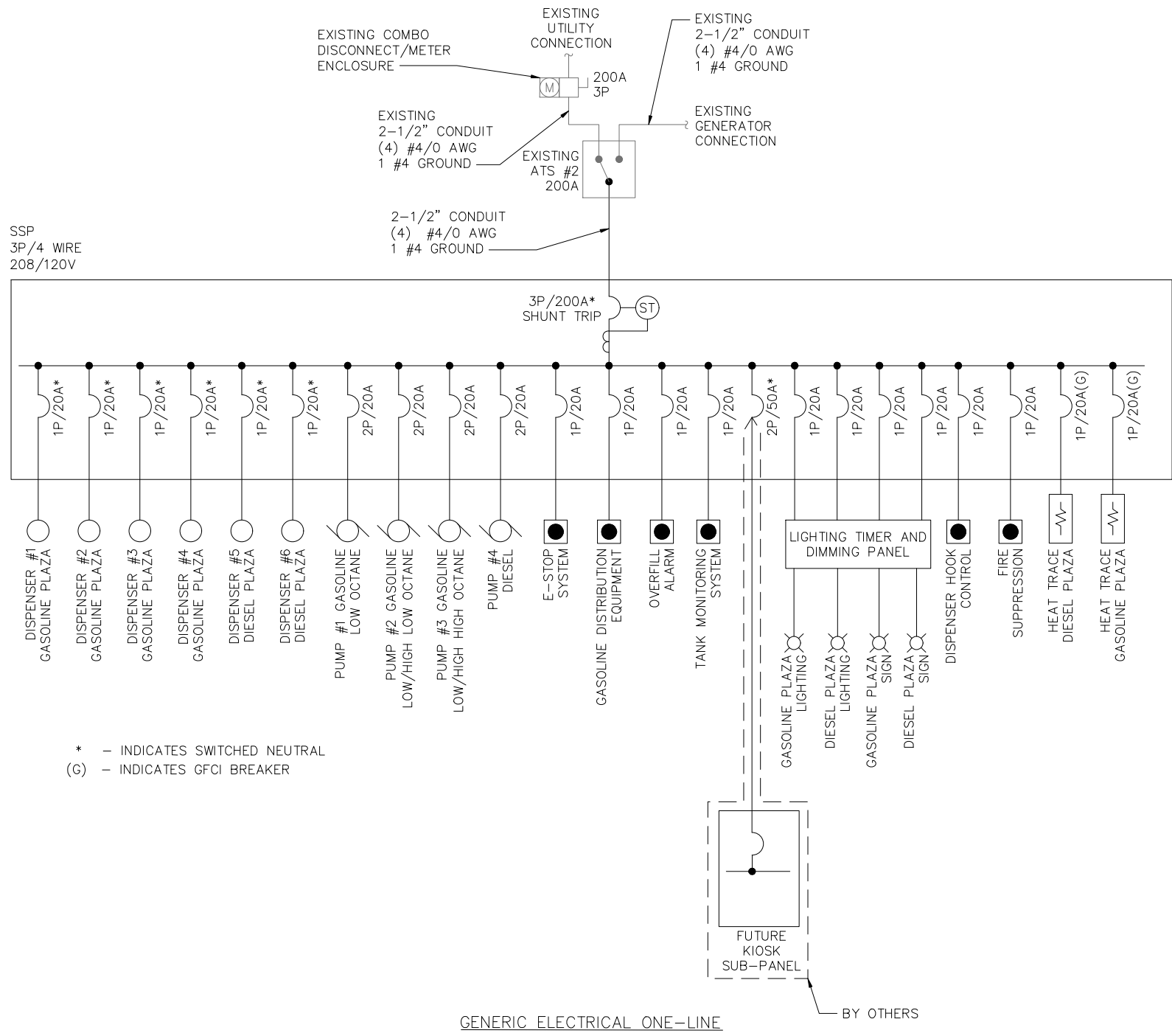
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.15

SHEET NUMBER: E-01

29 OF 32

Date: 6/21/2019



NOTES:

1. ELECTRICAL AND COMMUNICATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NATIONAL ELECTRIC CODE) AND WHERE APPLICABLE NFPA 70 CHAPTER 514 SPECIFICALLY.
2. ONE-LINE DIAGRAM IS GENERIC AND DIAGRAMMATIC, CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN UPDATED ONE-LINE DIAGRAM WITH CABLE (CONDUCTOR) SIZES AND QUANTITY FOR EACH ITEM THAT WILL BE INSTALLED OR RE-FEED.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMMUNICATION ONE-LINE DIAGRAM INDICATING ALL ITEMS (SENSORS, PANELS, ETC) ORIGINS AND TERMINATION POINTS.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ARC FLASH ANALYSIS SHORT CIRCUIT ANALYSIS, AND COORDINATION STUDY FOR ALL NEW WORK. CONTRACTOR IS RESPONSIBLE FOR PROVIDING LABELS BASED ON ANALYSIS. CONTRACTOR SHALL TRY TO LIMIT INCIDENT ENERGY AS BEST FEASIBLE.
5. CONTRACTOR SHALL PROVIDE LABELS AT EACH ITEM WITH SOURCE PANEL AND SOURCE BREAKER. LABELS SHALL BE PHENOLIC AND UV RESISTANT.
6. CONTRACTOR SHALL PROVIDE A LAMINATED PRINTED PANEL SCHEDULE(S) AND PLACE THEM INSIDE PANEL(S).
7. CONTRACTOR SHALL PROVIDE A LAMINATED OVERVIEW PLAN OF THE ELECTRICAL SYSTEM THAT INDICATES WHERE ITEMS ARE AND THEIR ASSOCIATED PANEL AND BREAKER. OVERVIEW PLAN SHALL BE PLACED WITH PANEL SCHEDULE INSIDE PANEL.

Filename: E2.dwg

Scale:			
NONE			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	
	MDB	04/05	
	Checked	DAM	04/19
	Drawn	KLM	04/05
	In Charge of	RAL	04/19

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
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THE GOLD STAR
MEMORIAL HIGHWAY

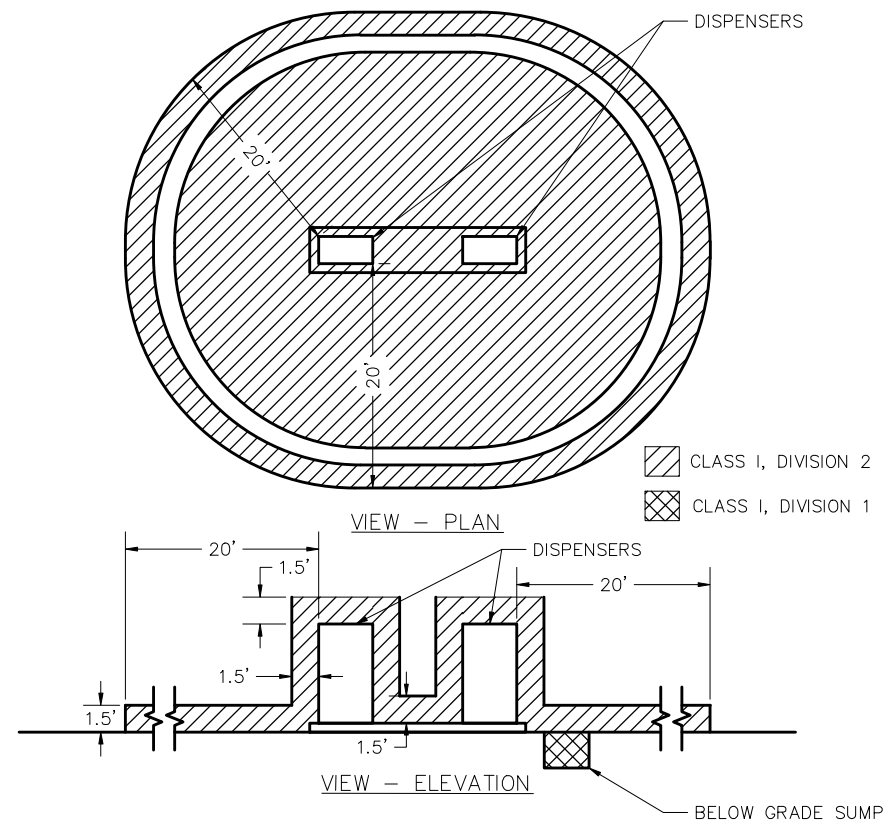
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT

ONE-LINE DIAGRAM - ELECTRICAL

SHEET NUMBER: E-02
CONTRACT: 2019.15
30 OF 32

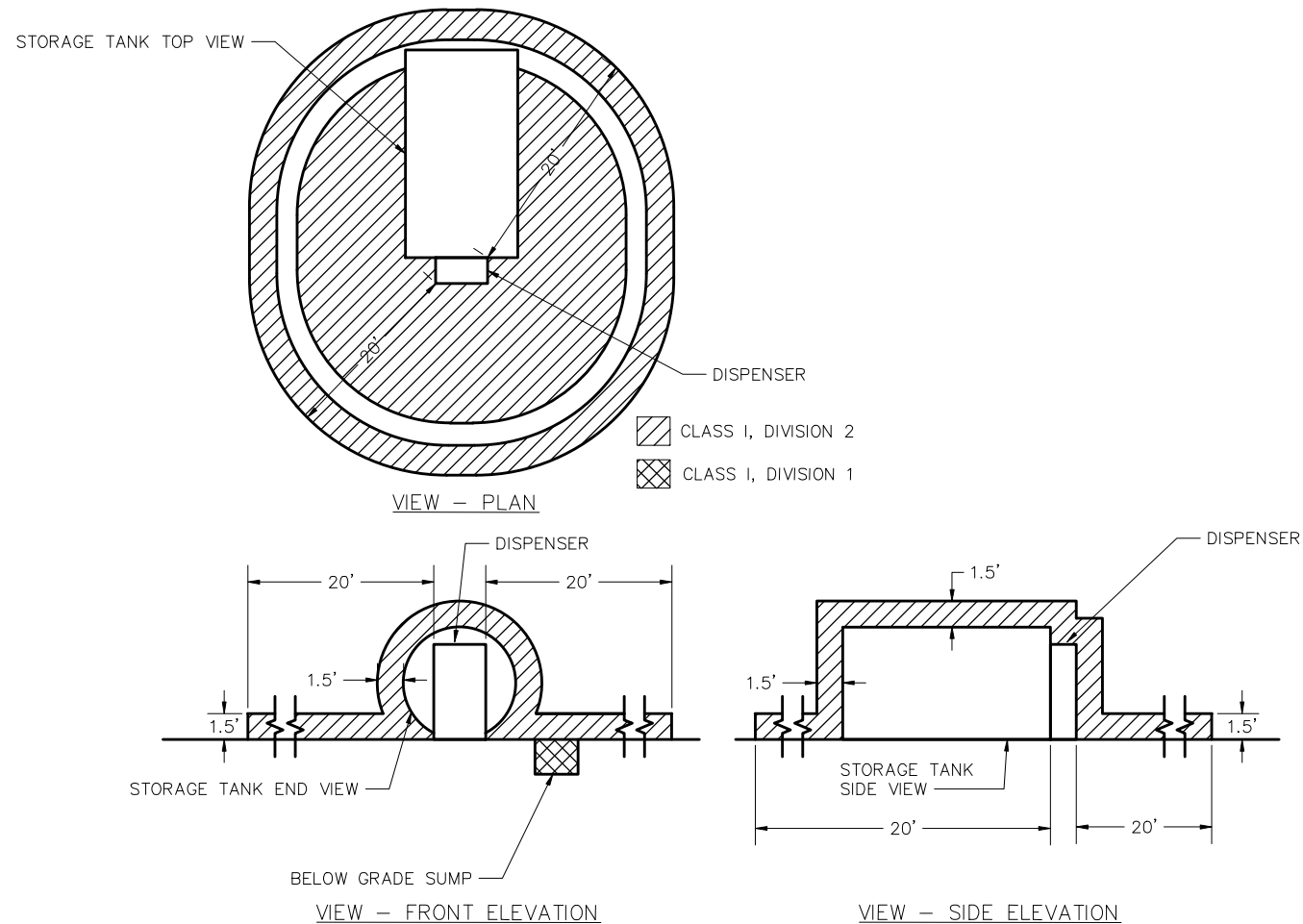
Date: 6/21/2019



DISPENSER CLASSIFIED AREA

SCALE: NONE

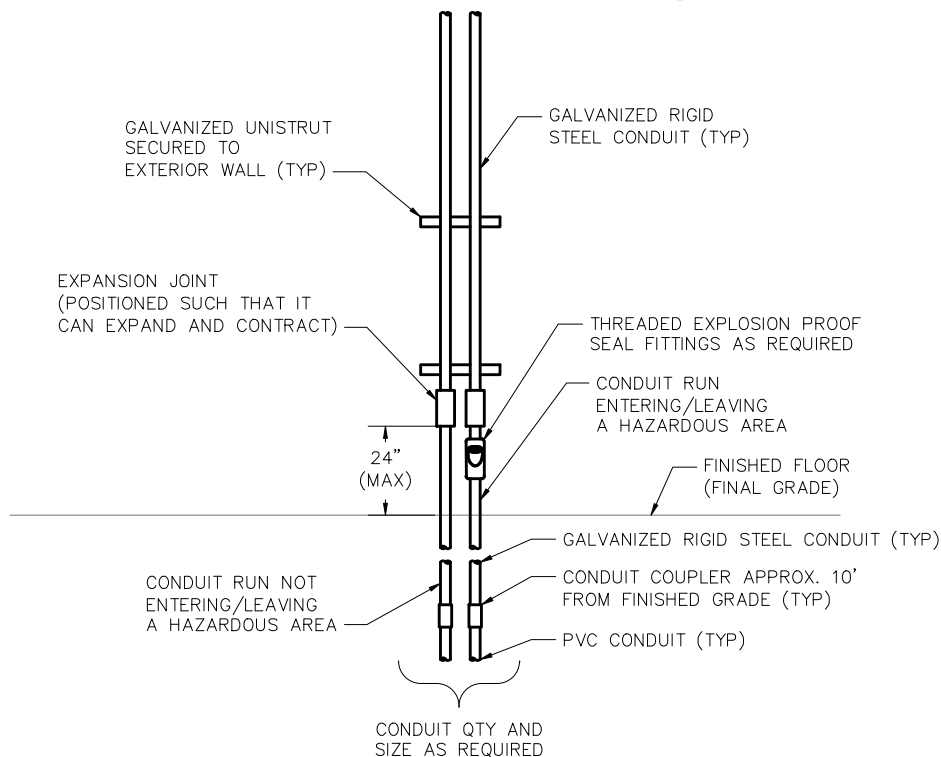
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TEMPORARY FUEL DISPENSER

SCALE: NONE

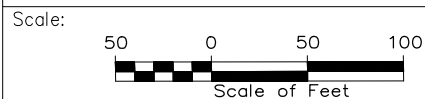
2



CONDUIT TRANSITION AT BUILDING

SCALE: NONE

3



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
DETAILS - ELECTRICAL

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	Checked	Date
MDB	04/05	DAM	04/19
Drawn	KLM	In Charge of	RAL
	04/05		04/19

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

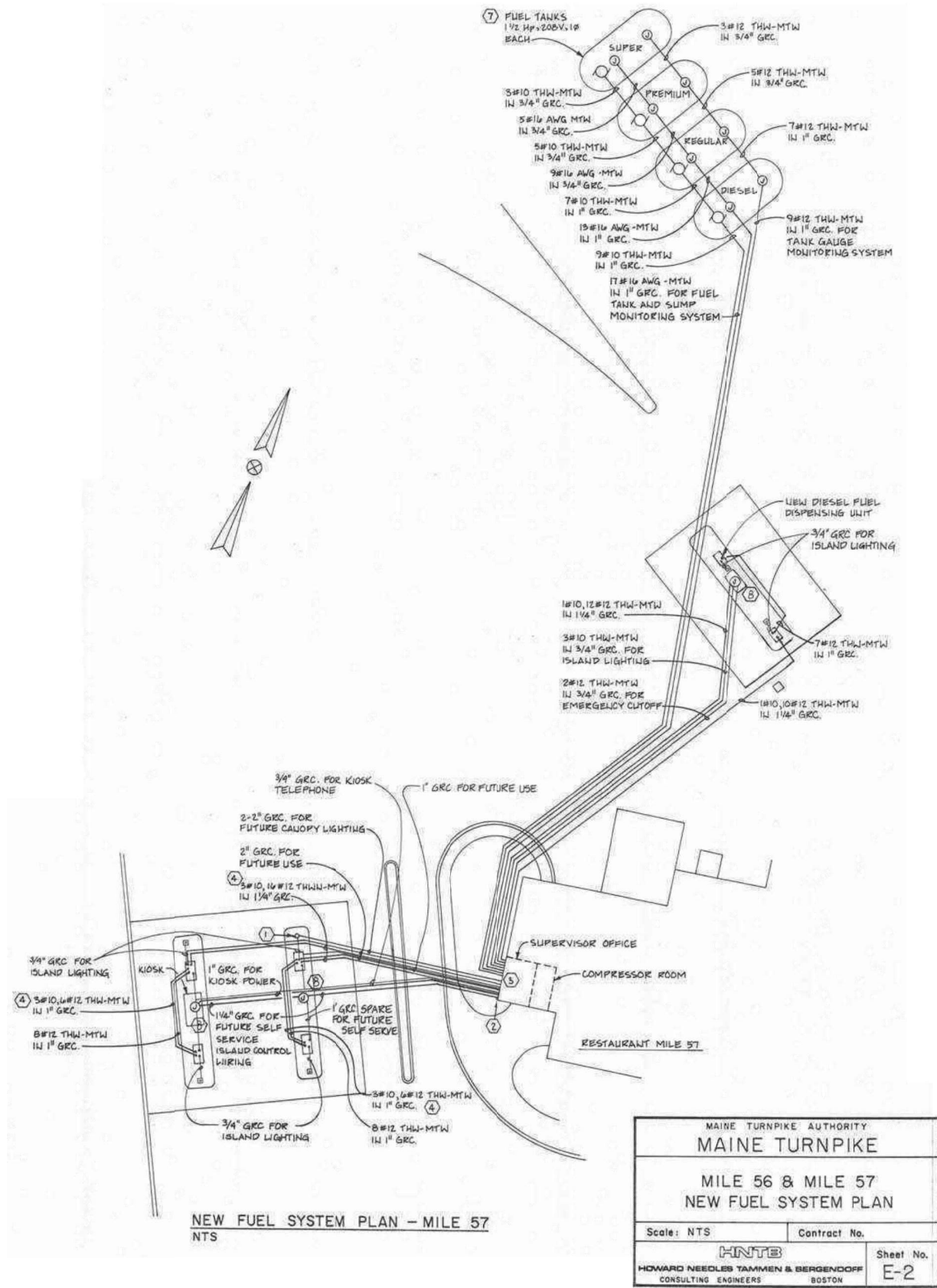
CONTRACT: 2019.15

SHEET NUMBER: E-03

31 OF 32

Filename: E3.dwg

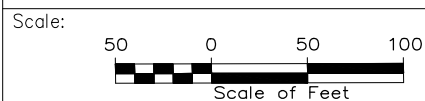
Date: 6/21/2019



NOTES:

1. DRAWING IS FROM:
MAINE TURNPIKE AUTHORITY
AS-BUILTS
CONTRACT 90.6
FUEL SYSTEM REPLACEMENT
MILE 56-CUMBERLAND
MILE 57-GRAY
AND IS INFORMATION ONLY TO ASSIST THE CONTRACTOR WITH LOCATING EXISTING ELECTRICAL CONDUIT SYSTEM AT PROJECT SITE.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL INFORMATION AND PERFORMING A UTILITY SURVEY TO INVESTIGATION FOR UNKNOWN UTILITIES.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL CONDUIT AND CONDUCTORS THAT ARE NOT USED.
4. CONTRACTOR SHALL ATTEMPT TO USE TRENCH MADE FROM REMOVAL OF EXISTING CONDUIT SYSTEM FOR NEW CONDUIT SYSTEM INSTALLATION TO LIMIT THE DAMAGE TO EXISTING PAVED SURFACES.

MAINE TURNPIKE AUTHORITY	
MAINE TURNPIKE	
MILE 56 & MILE 57 NEW FUEL SYSTEM PLAN	
Scale: NTS	Contract No.
HNTB	
HOWARD NEEDLES TAMMEN & BERGENDOFF CONSULTING ENGINEERS BOSTON	
Sheet No.	E-2



Designed by:



CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date	By	Date
Designed	MDB	04/05	Checked	DAM 04/19
Drawn	KLM	04/05	In Charge of	RAL 04/19

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MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

GRAY SERVICE PLAZA
FUEL SYSTEM REPLACEMENT
EXISTING ELECTRICAL CONDITIONS

SHEET NUMBER: E-04

CONTRACT: 2019.15

32 OF 32

Filename: E4.dwg