

Date: 7/29/2019



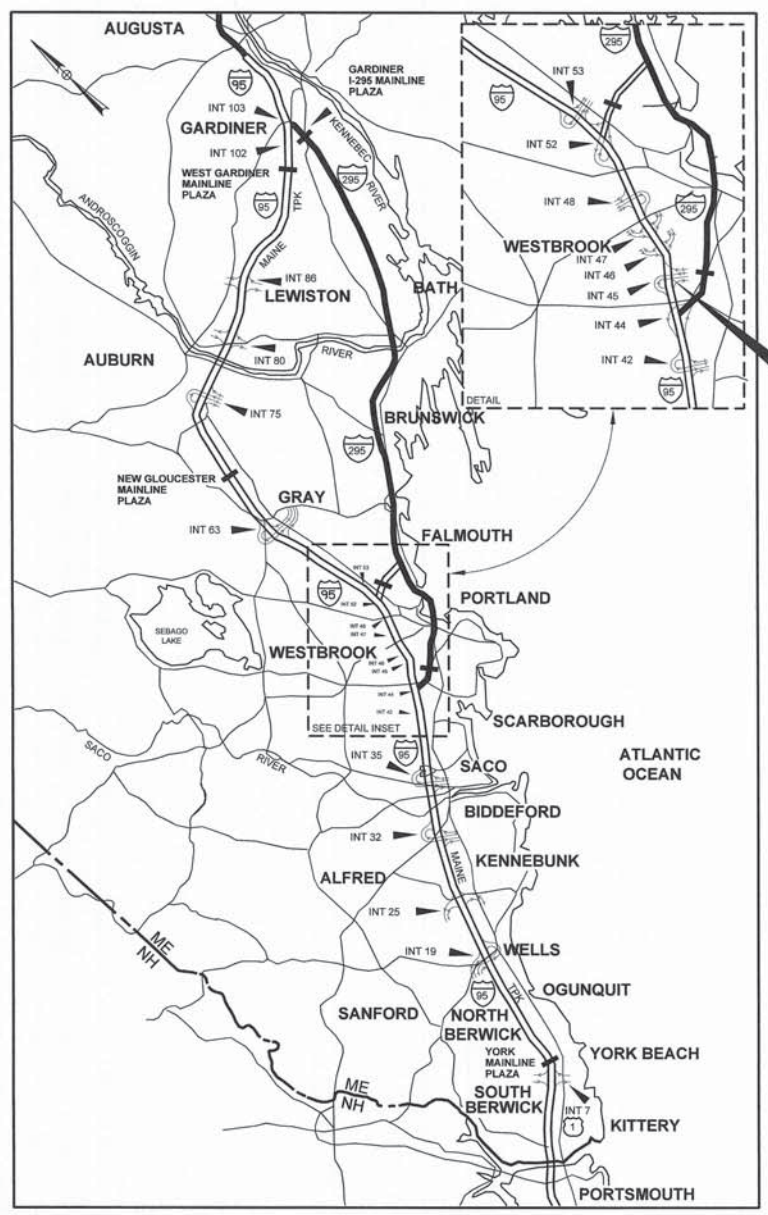
THE GOLD STAR  
MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2019.13 EXIT 45 EMBANKMENT PRELOAD MILE 44.9



CONTRACT 2019.13  
EXIT 45  
EMBANKMENT PRELOAD  
MILE 44.9

LOCATION MAP

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CONTRACT 2019.13

APPROVED: MAINE TURNPIKE AUTHORITY

*Peter S. Merfeld*  
PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER  
DATE: 7/29/19

*Stephen R. Tartre*  
STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE  
DATE: 7/29/19

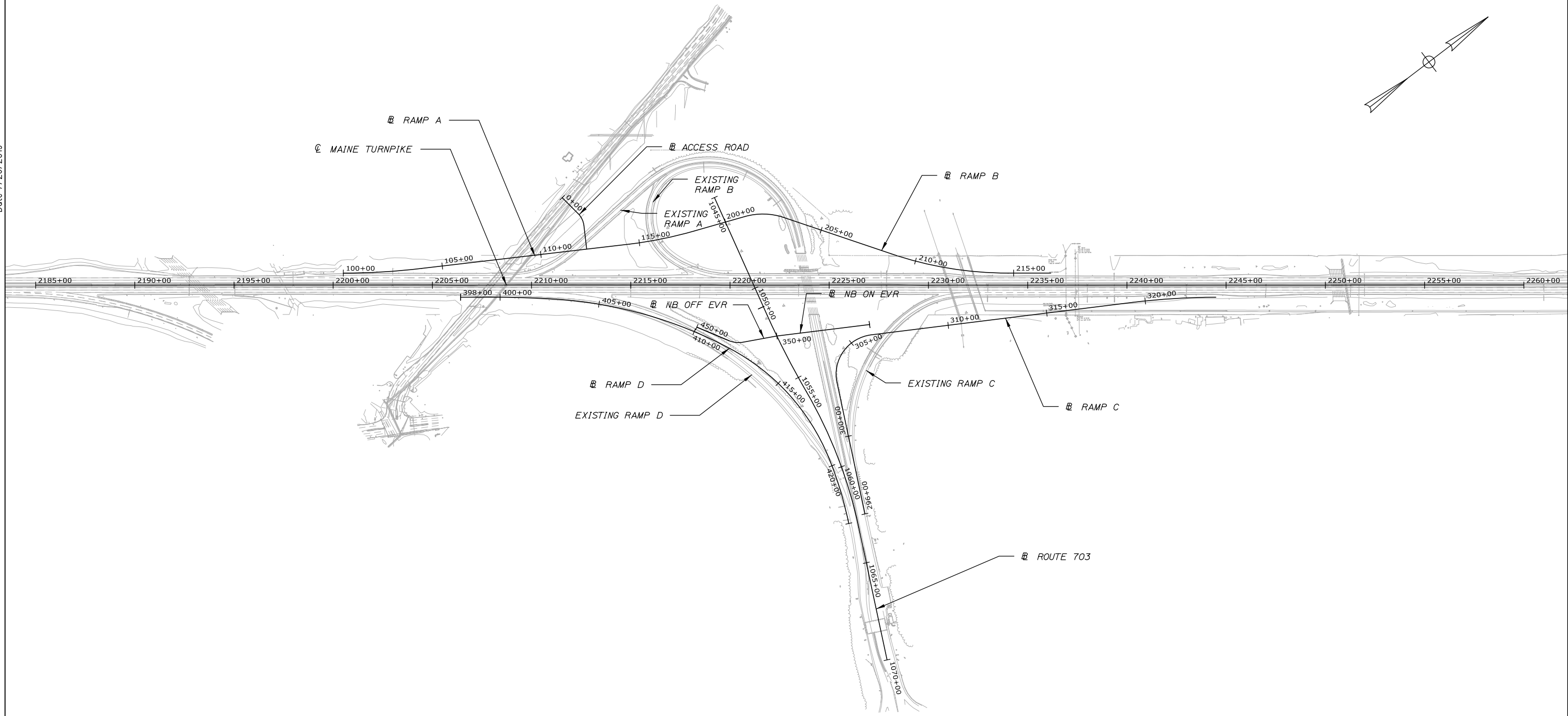
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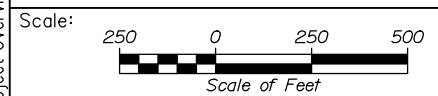
*Roland A. Lavalley*  
ROLAND A. LAVALLEY P.E., PLS  
VICE PRESIDENT  
DIRECTOR OF OPERATIONS  
DATE: 7/29/19

Filename: 001\_Title Sheet.dgn

Date: 7/26/2019



Filename: OXX\_Project Overview.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
 340 County Road, Suite 6-C  
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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD  
PROJECT OVERVIEW PLAN

SHEET NUMBER: PO-01  
CONTRACT: 2019.13  
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Date: 7/26/2019

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
201.11	CLEARING	3	AC
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	2	EA
202.202	REMOVING PAVEMENT SURFACE	830	SY
203.20	COMMON EXCAVATION	33,400	CY
203.24	COMMON BORROW	133,000	CY
203.25	GRANULAR BORROW	72	CY
209.29	PREFABRICATED VERTICAL DRAINS	2,343,000	LF
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	173,000	CY
304.14	AGGREGATE BASE COURSE - TYPE A	21	CY
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	170	Ton
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE	580	Ton
403.212	HOT MIX ASPHALT, 4.75 mm NOMINAL MAXIMUM SIZE	1350	Ton
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	790	Ton
409.15	BITUMINOUS TACK COAT RS-1 OR RS-1H - APPLIED	320	GAL
419.30	SAWING BITUMINOUS PAVEMENT	620	LF
526.306	TEMPORARY CONCRETE BARRIER, TYPE I - SUPPLIED BY AUTHORITY (3,000 LF)	1	LS
527.341	WORK ZONE CRASH CUSHIONS - TL-3	1	UN
527.3411	WORK ZONE CRASH CUSHIONS - TL-3 LEFT IN PLACE	1	UN
527.3421	WORK ZONE CRASH CUSHIONS - TL-2 LEFT IN PLACE	5	UN
602.30	FLOWABLE CONCRETE FILL	2	CY
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	56	LF
603.159	12 INCH CULVERT PIPE OPTION III	72	LF
603.169	15 INCH CULVERT PIPE OPTION III	99	LF
603.175	18 INCH REINFORCED CONCRETE PIPE - CLASS III	36	LF
603.195	24 INCH REINFORCED CONCRETE PIPE - CLASS III	480	LF
603.205	30 INCH REINFORCED CONCRETE PIPE - CLASS III	780	LF
603.215	36 INCH REINFORCED CONCRETE PIPE - CLASS III	76	LF
603.255	60 INCH REINFORCED CONCRETE PIPE - CLASS III	180	LF
603.28	CONCRETE COLLAR	2	EA
604.09	CATCH BASIN TYPE BI	4	EA
604.093	60' CATCH BASIN TYPE BI	2	EA
604.244	CATCH BASIN TYPE F4	1	EA
606.1724	BRIDGE TRANSITION - TYPE II - MODIFIED	1	EA
606.278	TERMINAL END - ANCHORED END	1	EA
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	280	EA
606.356	UNDERDRAIN DELINEATOR POST	24	EA
606.3562	DELINEATOR POST - REMOVE AND STACK	60	EA
606.3606	GUARDRAIL - REMOVE, MODIFY, AND RESET DOUBLE RAIL	25	LF
607.09	WOVEN WIRE FENCE - METAL POSTS	650	LF
607.17	CHAIN LINK FENCE 1 1/2" 6 FOOT	1200	LF
607.23	CHAIN LINK FENCE GATE	1	EA
607.32	BRACING ASSEMBLY TYPE I - METAL POSTS	8	EA
607.33	BRACING ASSEMBLY TYPE II - METAL POSTS	3	EA
609.31	CURB TYPE 3	18	LF
610.08	PLAIN RIPRAP	170	CY
610.18	STONE DITCH PROTECTION	45	CY
610.181	TEMPORARY STONE CHECK DAM	45	CY
613.319	EROSION CONTROL BLANKET	7350	SY
615.07	LOAM	5200	CY
618.14	SEEDING METHOD NUMBER 2	420	UNIT
619.1201	MULCH - PLAN QUANTITY	420	UNIT
619.1202	TEMPORARY MULCH	1	LS
620.58	EROSION CONTROL GEOTEXTILE	570	SY
626.121	QUAZITE JUNCTION BOX (36X24)	5	EA
626.122	QUAZITE JUNCTION BOX (18X11)	6	EA
626.131	ADJUST EXISTING JUNCTION BOX TO GRADE	10	EA
626.22	NON-METALLIC CONDUIT	100	LF
627.77	REMOVING EXISTING PAVEMENT MARKING	5350	SF
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	15,300	LF
627.812	TEMPORARY RAISED PAVEMENT MARKERS	1400	EA

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL PURPOSED EXCAVATOR (INCLUDING OPERATOR)	40	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	40	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	40	HR
631.32	CULVERT CLEANER (INCLUDING OPERATORS)	20	HR
631.36	FOREMAN	40	HR
634.2083	REMOVE AND STACK LIGHT STANDARD	4	EA
634.221	TEMPORARY HIGHWAY LIGHT	4	EA
639.18	FIELD OFFICE, TYPE A	1	EA
639.26	INSTRUMENTATION (GEOTECHNICAL)	1	LS
645.105	REMOVE AND STACK SIGN	4	EA
652.30	FLASHING ARROW	3	EA
652.312	TYPE III BARRICADES	10	EA
652.33	DRUM	560	EA
652.332	DRUM LEFT IN PLACE	170	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	1850	SF
652.351	CONSTRUCTION SIGNS LEFT IN PLACE	530	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	80	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	8	EA
652.45	TRUCK MOUNTED ATTENUATOR	20	CD
652.4501	TRUCK MOUNTED ATTENUATOR - 24,000 LB	30	CD
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	20	CD
656.50	BALED HAY, IN PLACE	100	EA
656.60	TEMPORARY BERMS	1800	LF
656.62	TEMPORARY SLOPE DRAINS	210	LF
656.632	30 INCH TEMPORARY SILT FENCE	17,400	LF
659.10	MOBILIZATION	1	LS

Filename: 00X\_EstimatedQuantities.dgn

Scale: NOT TO SCALE

Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
	EDD	07\19	Checked	JRH	07\19
	Drawn	AJS	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD  
ESTIMATED QUANTITIES

CONTRACT: 2019.13


SHEET NUMBER: EQ-01

3 OF 173

Date: 7/26/2019

	MAINLINE	ROUTE 703	RAMP A	RAMP B	RAMP C
<b>COMMON EXCAVATION FOR ESTIMATE</b>					
COMMON EXCAVATION (FROM SECTIONS)	2,691	30	57	298	1,100
COMMON EXCAVATION (FROM PHASE 1 MOT SECTIONS)	0	0	0	0	0
COMMON EXCAVATION (FROM PHASE 2 MOT SECTIONS)	0	0	0	0	0
GRUBBING (CUT & FILL)	890	1,520	1,602	1,077	3,602
MUCK EXCAVATION	1,037	4,123	1,504	5,089	2,073
PAVEMENT SALVAGE IN FILL	0	0	0	0	0
<b>TOTAL COMMON EXCAVATION</b>	<b>4,618</b>	<b>5,673</b>	<b>3,163</b>	<b>6,464</b>	<b>6,775</b>
<b>FILL FOR BORROW CALCULATIONS</b>					
COMMON BORROW (STAGE 1 FROM SECTIONS)	65	4,115	9,786	23,389	7,912
COMMON BORROW (STAGE 2 FROM SECTIONS)	0	9,677	388	3,913	0
COMMON BORROW (FROM PHASE 1 MOT SECTIONS)	0	0	0	0	0
COMMON BORROW (FROM PHASE 2 MOT SECTIONS)	0	0	0	0	0
GRUBBING IN FILL	0	0	0	0	0
MUCK EXCAVATION IN FILL	0	0	0	0	0
<b>TOTAL FILL</b>	<b>65</b>	<b>50,792</b>	<b>10,175</b>	<b>27,302</b>	<b>7,912</b>
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>					
ALL DEDUCTIONS:					
GRUBBING (CUT & FILL)	890	1,520	1,602	1,077	3,602
MUCK EXCAVATION	1,037	4,123	1,504	5,089	2,073
PAVEMENT SALVAGE (CUT AND FILL)	0	0	0	0	0
<b>TOTAL DEDUCTIONS</b>	<b>1,927</b>	<b>5,643</b>	<b>3,106</b>	<b>6,166</b>	<b>5,675</b>
<b>TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS</b>	<b>2,691</b>	<b>30</b>	<b>57</b>	<b>298</b>	<b>1,100</b>
<b>RIPRAP EXCAVATION</b>					
<b>TOTAL AVAILABLE NON-ROCK EXCAVATION</b>	<b>2,691</b>	<b>30</b>	<b>57</b>	<b>298</b>	<b>1,100</b>
<b>COMPUTATION OF WASTE STORAGE &amp; WASTE MATERIAL</b>					
GRUBBING (CUT & FILL)	890	1,520	1,602	1,077	3,602
MUCK EXCAVATION	1,037	4,123	1,504	5,089	2,073
<b>TOTAL WASTE MATERIAL</b>	<b>1,927</b>	<b>5,643</b>	<b>3,106</b>	<b>6,166</b>	<b>5,675</b>
<b>TOTAL WASTE MATERIAL TO BE WASTED</b>	<b>1,927</b>	<b>5,643</b>	<b>3,106</b>	<b>6,166</b>	<b>5,675</b>
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>					
<b>TOTAL AVAIL. NON-ROCK EXCAV.</b>	<b>2,691 x 0.90 = 2,421</b>	<b>30 x 0.90 = 27</b>	<b>57 x 0.90 = 51</b>	<b>298 x 0.90 = 268</b>	<b>1,100 x 0.90 = 990</b>
<b>TOTAL AVAILABLE EXCAVATION</b>	<b>2,421</b>	<b>27</b>	<b>51</b>	<b>268</b>	<b>990</b>
<b>BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION</b>	<b>0</b>	<b>50,765</b>	<b>10,124</b>	<b>27,034</b>	<b>6,922</b>
<b>IF NO BORROW IS NEEDED, SURPLUS AVAILABLE EXCAVATION = AVAILABLE EXCAVATION (-) TOTAL FILL</b>	<b>2,356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Filename: 00X\_Earthwork\_Summary\_01.dgn

Scale: <b>NOT TO SCALE</b>	Designed by: <b>HNTB</b>	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909	 <b>THE GOLD STAR MEMORIAL HIGHWAY</b>	<b>EXIT 45 EMBANKMENT PRELOAD EARTHWORK SUMMARY 1</b>																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <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> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.		SHEET NUMBER: EW-01		
No.	Revision	By	Date																			
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	By	Date		By	Date																	
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Drawn	AJS	07\19	In Charge of	RAL	07\19																	

Date: 7/26/2019

Filename: 00X\_Earthwork\_Summary\_02.dgn

	NB ON EVR	RAMP D	NB OFF EVR	ACCESS ROAD
<b>COMMON EXCAVATION FOR ESTIMATE</b>				
COMMON EXCAVATION (FROM SECTIONS)	0	83	0	0
COMMON EXCAVATION (FROM PHASE 1 MOT SECTIONS)	0	27	0	0
COMMON EXCAVATION (FROM PHASE 2 MOT SECTIONS)	0	42	0	0
GRUBBING (CUT & FILL)	489	1,752	1,091	86
MUCK EXCAVATION	652	804	0	542
PAVEMENT SALVAGE IN FILL	0	1,086	0	0
<b>TOTAL COMMON EXCAVATION</b>	<b>1,141</b>	<b>3,794</b>	<b>1,091</b>	<b>628</b>
<b>FILL FOR BORROW CALCULATIONS</b>				
COMMON BORROW (STAGE 1 FROM SECTIONS)	8,514	10,990	12,913	1,800
COMMON BORROW (STAGE 2 FROM SECTIONS)	26	0	2,874	0
COMMON BORROW (FROM PHASE 1 MOT SECTIONS)	0	0	0	0
COMMON BORROW (FROM PHASE 2 MOT SECTIONS)	0	2,902	0	0
GRUBBING IN FILL	0	432	0	0
MUCK EXCAVATION IN FILL	0	156	0	0
<b>TOTAL FILL</b>	<b>8,541</b>	<b>14,508</b>	<b>15,788</b>	<b>1,800</b>
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>				
ALL DEDUCTIONS:				
GRUBBING (CUT & FILL)	489	1,752	1,091	86
MUCK EXCAVATION	652	804	0	542
PAVEMENT SALVAGE (CUT AND FILL)	0	1,086	0	0
<b>TOTAL DEDUCTIONS</b>	<b>1,141</b>	<b>3,642</b>	<b>1,091</b>	<b>628</b>
TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	0	151	0	0
RIPRAP EXCAVATION				
<b>TOTAL AVAILABLE NON-ROCK EXCAVATION</b>	<b>0</b>	<b>151</b>	<b>0</b>	<b>0</b>
<b>COMPUTATION OF WASTE STORAGE &amp; WASTE MATERIAL</b>				
GRUBBING (CUT & FILL)	489	1,752	1,091	86
MUCK EXCAVATION	652	804	0	542
<b>TOTAL WASTE MATERIAL</b>	<b>1,141</b>	<b>2,556</b>	<b>1,091</b>	<b>628</b>
<b>TOTAL WASTE MATERIAL TO BE WASTED</b>	<b>1,141</b>	<b>2,556</b>	<b>1,091</b>	<b>628</b>
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>				
TOTAL AVAIL. NON-ROCK EXCAV.	0 x 0.90 = 0	151 x 0.90 = 136	0 x 0.90 = 0	0 x 0.90 = 0
<b>TOTAL AVAILABLE EXCAVATION</b>	<b>0</b>	<b>136</b>	<b>0</b>	<b>0</b>
<b>BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION</b>	<b>8,541</b>	<b>14,317</b>	<b>15,788</b>	<b>1,800</b>
IF NO BORROW IS NEEDED, SURPLUS AVAILABLE EXCAVATION = AVAILABLE EXCAVATION (-) TOTAL FILL	0	0	0	0

Scale: **NOT TO SCALE**

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**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 EARTHWORK SUMMARY 2

SHEET NUMBER: EW-02  
 CONTRACT: 2019.13  
 5 OF 173

Date: 7/26/2019

Filename: 00X\_General Notes.dgn

**GENERAL**

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINE DOT) STANDARD DETAILS HIGHWAYS AND BRIDGES, LATEST REVISION, AND MAINE DEP BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.
2. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
3. IF REQUIRED, CONNECTION FOR PROPOSED FENCE TO EXISTING FENCE SHALL BE INCIDENTAL TO THE PROPOSED FENCE ITEMS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING RIGHT-OF-WAY FENCE AS NECESSARY OR DIRECTED BY THE RESIDENT. PAYMENT FOR SUCH SHALL BE INCIDENTAL TO ITEM 203.20, COMMON EXCAVATION.
5. GEOTECHNICAL INFORMATION EITHER FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR THE INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
6. THE PROJECT GEOTECHNICAL REPORT, INCLUDING TEST BORING LOGS TITLED EXIT 45 PRELOAD EMBANKMENT GEOTECHNICAL DESIGN REPORT MAY BE ACCESSED AT THE MAINE TURNPIKE AUTHORITY WEB ADDRESS WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS.

**EARTHWORK**

1. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE.
  2. EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT.
  3. GRUBBING IN FILL AND MUCK EXCAVATION HAVE BEEN SHOWN ON THE CROSS SECTIONS. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR QUANTITY ESTIMATION PURPOSES ONLY. ACTUAL LIMITS MAY VARY BASED ON FIELD CONDITIONS AND AS DIRECTED BY THE RESIDENT. GRUBBING DEPTH HAS BEEN ESTIMATED AS 6 INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS. TOTAL MUCK EXCAVATION DEPTH (INCLUDING GRUBBING) HAS BEEN ESTIMATED AT 18 INCHES.
  4. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
  5. ALL EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P, EXCAVATIONS, OF 29 CFR PART 1926.650-652 AND APPENDICES. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY, STABILITY AND MAINTENANCE OF ALL TEMPORARY SLOPES.
  6. REMOVAL OF EXISTING PAVEMENT SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 6". NOTE THAT PAVEMENT THICKNESS ON RAMPS NEAR THE EXISTING OVERPASS BRIDGE IS GREATER THAN 6"
  7. ON SITE STOCKPILING RESTRICTIONS EXIST. SEE SPECIAL PROVISION SECTION 107.4.7 LIMITATIONS OF OPERATIONS FOR MORE INFORMATION.
  8. DENSITY CONTROL FOR COMPACTION OF ALL EMBANKMENTS SHALL FOLLOW THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 203.12 - CONSTRUCTION OF EARTH EMBANKMENTS WITH MOISTURE AND DENSITY CONTROL.
  9. THE CONTRACTOR IS ADVISED THAT THE ENTIRE PROJECT SITE IS UNDERLAIN BY COMPRESSIBLE, LOW-STRENGTH SOILS THAT ARE POTENTIALLY UNSTABLE. ALL FILL LIMITS AND STAGING SEQUENCES SHOWN IN THE PLANS SHALL BE STRICTLY FOLLOWED UNLESS AN EXCEPTION IS SUBMITTED TO, AND APPROVED BY THE RESIDENT. ALL EMBANKMENTS SHALL BE CONSTRUCTED SUCH THAT THE FILL SURFACE WITHIN THE LIMITS OF THE EMBANKMENT AREA DOES NOT VARY BY MORE THAN 2 FEET VERTICALLY AT ANY TIME DURING CONSTRUCTION TO PREVENT UNBALANCED FILL CONDITIONS THAT COULD LEAD TO SOIL FAILURE. IF DURING THE COURSE OF THE WORK THE CONTRACTOR OBSERVES UNUSUAL MOVEMENTS OF EMBANKMENTS OR STRUCTURES, THE RESIDENT SHALL BE NOTIFIED IMMEDIATELY AND WORK TEMPORARILY STOPPED UNTIL THE SITUATION IS EVALUATED AND IF NEEDED, REMEDIAL MEASURES ARE DEVELOPED. WORK SHOULD NOT PROCEED UNTIL DIRECTED BY THE RESIDENT. REFER ALSO TO NOTE 3 ON GEOTECHNICAL PLAN 1(GT-01).
  10. PLACEMENT OF TEMPORARY FILLS OUTSIDE THE EMBANKMENT FOOTPRINT FOR PURPOSES SUCH AS MATERIAL STOCKPILES, ACCESS ROADS, ETC. WILL REQUIRE ADVANCE APPROVAL OF THE RESIDENT. THE CONTRACTOR SHALL SUBMIT PLAN DETAILS IN ADVANCE SHOWING PROPOSED LOCATION AND HEIGHTS OF TEMPORARY FILLS. TEMPORARY FILLS SHALL HAVE SUFFICIENT LATERAL CLEARANCE FROM EXISTING UTILITIES, ROADWAYS, AND STRUCTURES TO PREVENT DAMAGE.
- II. EXCAVATED SOIL MEETING THE MATERIAL AND GRADATION REQUIREMENTS OF COMMON BORROW MAY BE REPURPOSED FOR EMBANKMENT CONSTRUCTION. ALL OTHER SOILS AND WASTE MATERIALS, INCLUDING ORGANIC PEAT/MUCK, ROOTS, AND STUMPS, SHALL BE DISPOSED OF OFF THE PROJECT SITE IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS (SEE NOTE 4).

**UTILITY**

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 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
3. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
  - CENTRAL MAINE POWER (DISTRIBUTION)
  - CENTRAL MAINE POWER (TRANSMISSION)
  - PORTLAND WATER DISTRICT
  - DEAD RIVER COMPANY (SEWER)
  - MAINE TURNPIKE AUTHORITY (LIGHTING)
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 THEIR UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

**EROSION CONTROL**

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. 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. #1 LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.
3. NEWLY DISTURBED EARTH SHALL BE MULCHED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 656. PAYMENT WILL BE MADE UNDER ITEM 619.1202 - TEMPORARY MULCH.
4. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEP BEST MANAGEMENT PRACTICES.
6. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEP BEST MANAGEMENT PRACTICES.
7. TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2:1 OR STEEPER SLOPES EXCLUDING SURCHARGE FROM 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 OR AS DESIGNATED BY THE RESIDENT.
8. UNLESS OTHERWISE NOTED; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL AREAS.
9. A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.
10. TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT.
11. STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.

**DRAINAGE**

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT. ABANDONED STRUCTURES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR (INCIDENTAL TO 604 ITEMS) AND FILLED WITH FLOWABLE FILL.
2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
3. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
4. EXISTING CULVERTS AND CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATORS).
5. 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.
6. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS OF GRANULAR BORROW - UNDERWATER BACKFILL AND WILL BE PAID FOR AS GRANULAR BORROW.
7. PROPOSED PIPES SHALL BE CAMBERED PER PLAN DETAILS TO ACCOUNT FOR ANTICIPATED EMBANKMENT SETTLEMENTS.
8. CATCH BASIN GRATES THAT WILL SEE TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.
9. ALL PRELOAD EMBANKMENTS ADJACENT TO EXISTING OR TEMPORARY ROADWAYS SHALL HAVE TEMPORARY BERMS PLACED AT THE TOP OF THE PRELOAD EMBANKMENT TO MINIMIZE SURFACE WATER FLOW IN REDUCED WIDTH SHOULDER.

**GUARDRAIL**


1. AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL OR CONCRETE BARRIER WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
2. W-BEAM GUARDRAIL EXISTS ON THE PROJECT SITE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING W-BEAM GUARDRAIL NOT RESET.

**SIGNS**

1. REMOVE AND RESET OF ALL REGULATORY, WARNING, CONFIRMATION, ROUTE MARKER ASSEMBLY SIGNS FOR CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 645 - HIGHWAY SIGNING. PAYMENT WILL BE INCIDENTAL TO RELATED CONTRACT ITEMS.

**LIGHTING**

1. ALL EXISTING JUNCTION BOXES SHALL BE ADJUSTED TO GRADE AS REQUIRED. PAYMENT FOR ADJUSTMENT TO GRADE SHALL BE MADE PER ITEM 626.131 ADJUST EXISTING JUNCTION BOXES TO GRADE. IF THE ADJUSTMENT TO GRADE IS GREATER THAN TWELVE INCHES, AN ADDITIONAL SIMILAR SIZED JUNCTION BOX WILL BE USED AS AN EXTENSION OF THE EXISTING JUNCTION BOX. PAYMENT FOR ADDITIONAL JUNCTION BOXES WILL BE MADE PER ITEM 626.121 OR 626.122, AS DETERMINED BY THE RESIDENT ENGINEER.
2. THE COUNT STATION CABINET ELECTRICAL SERVICE WILL BE INACTIVE PRIOR TO START OF THE CONSTRUCTION AND THE CABINET SHALL BE REMOVED AND TRANSPORTED TO THE CROSBY MAINTENANCE FACILITY. THE CABINET FOUNDATION SHALL BE REMOVED AND DISPOSED OF PER SPECIFICATION REQUIREMENTS. ALL EXISTING CONDUIT AND WIRING TO AND FROM THE COUNT STATION CABINET SHALL BE ABANDONED IN PLACE. PAYMENT SHALL BE INCIDENTAL TO ITEM 634.2083 STACK EXISTING LIGHT STANDARD.
3. THE FOUR HIGHWAY LIGHTS ON THE NORTHBOUND OFF-RAMP BETWEEN STATIONS 400-92 AND 405-08 WILL BE REMOVED AND STACKED PER SPECIAL PROVISION 634. THESE HIGHWAY LIGHTS WILL BE RESET USING TEMPORARY POWER AND WOODEN UTILITY POLES.

Scale:				Designed by:			
NOT TO SCALE							
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
				By	Date	By	Date
				Designed	EDD 07\19	Checked	JRH 07\19
				Drawn	EPR 07\19	In Charge of	RAL 07\19

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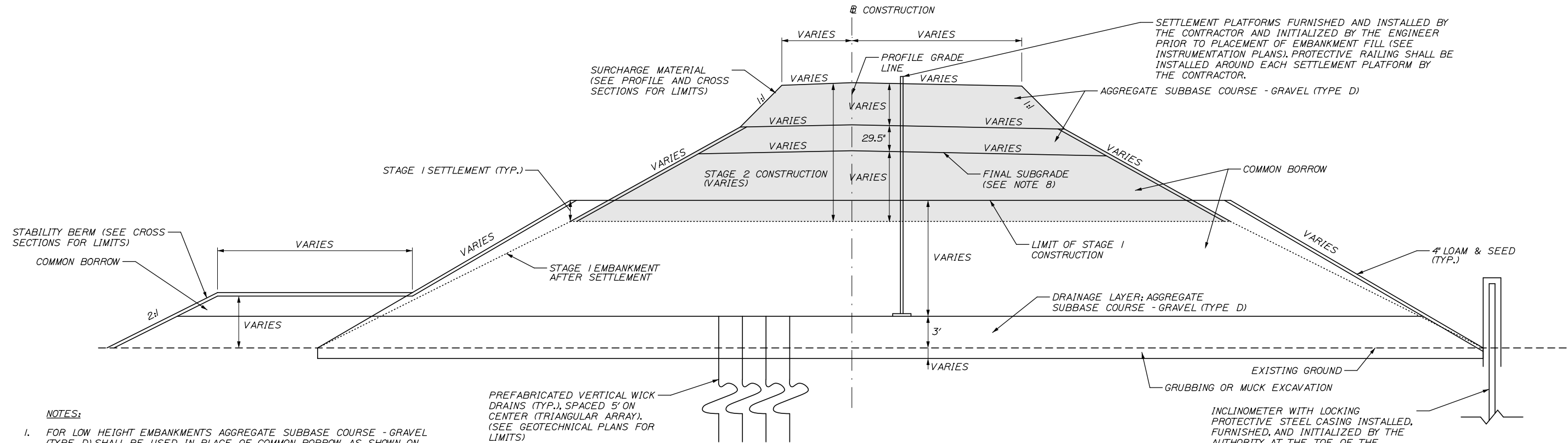
			
<b>THE GOLD STAR MEMORIAL HIGHWAY</b>			
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.			

EXIT 45 EMBANKMENT PRELOAD GENERAL NOTES	
SHEET NUMBER: GN-01	

CONTRACT: 2019.13	6 OF 173
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Date: 7/26/2019

Filename: 00X\_Preload\_TypicalSec01.dgn



RAMP TYPICAL - TWO STAGE EMBANKMENT

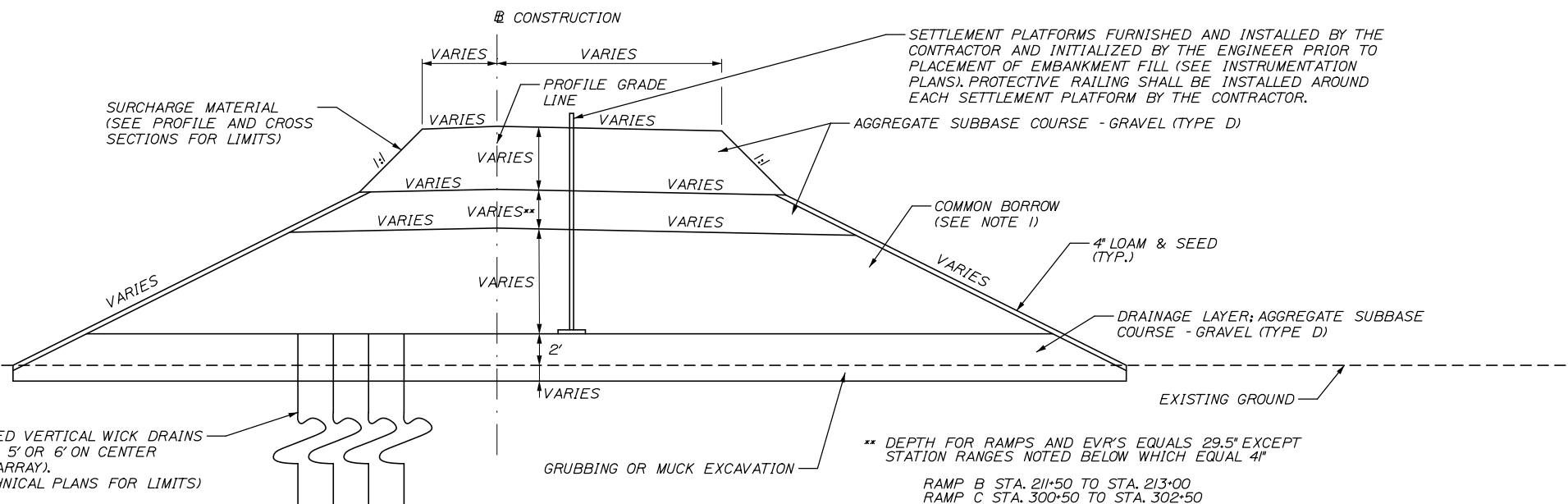
- NOTES:**
- FOR LOW HEIGHT EMBANKMENTS AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D) SHALL BE USED IN PLACE OF COMMON BORROW AS SHOWN ON THE CROSS SECTIONS.
  - PREFABRICATED VERTICAL WICK DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIAL PROVISION SECTION 209 - WICK DRAINS (PREFABRICATED VERTICAL DRAINS).
  - INSTRUMENTATION SHALL BE INSTALLED IN ACCORDANCE WITH SPECIAL PROVISION SECTION 639 - INSTRUMENTATION (GEOTECHNICAL).
  - EMBANKMENT FILL AND SURCHARGE SHALL NOT BE PLACED TO HIGHER ELEVATIONS THAN INDICATED IN THE PLANS. ALL SURCHARGE IS TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONTRACT AND SHALL NOT BE REMOVED UNLESS DIRECTED BY THE RESIDENT.
  - ALL EMBANKMENTS SHALL BE RAISED IN UNIFORM LIFTS NOT EXCEEDING TWO FEET IN HEIGHT TO PREVENT UNBALANCED FILL CONDITIONS THAT COULD LEAD TO SOIL FAILURE. NOTE THAT ACTUAL LIFTS MAY BE LESS FOR COMPACTION PURPOSES TO ACHIEVE REQUIRED DENSITIES.
  - STABILITY BERMS SHALL BE CONSTRUCTED AND RAISED SIMULTANEOUSLY WITH THE ADJOINING EMBANKMENTS.
  - EMBANKMENT SETTLEMENT IS ANTICIPATED TO OCCUR OVER THE LENGTH OF THE PROJECT AND THROUGHOUT THE DURATION OF CONSTRUCTION. SETTLEMENT OF EMBANKMENT FILL AND SURCHARGE MAY ALSO OCCUR DURING FILL PLACEMENT. THE CONTRACTOR SHALL ACCOUNT FOR THE ADDITIONAL MATERIAL THAT MAY BE PLACED SO THAT THE EMBANKMENT FILL OR SURCHARGE IS CONSTRUCTED TO THE ELEVATIONS SHOWN ON THE PLANS. PAYMENT WILL BE MADE PER CUBIC YARD UNDER THE APPROPRIATE CONTRACT ITEMS.
  - ALL MATERIAL PLACED ABOVE FINAL SUBGRADE SHALL BE AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D). IF AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D) IS PLACED IN STAGE 1 ALL MATERIAL IN STAGE 2 SHALL BE AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D) REGARDLESS IF MATERIAL IS ABOVE OR BELOW FINAL SUBGRADE.

PREFABRICATED VERTICAL WICK DRAINS (TYP.), SPACED 5' ON CENTER (TRIANGULAR ARRAY). (SEE GEOTECHNICAL PLANS FOR LIMITS)

INCLINOMETER WITH LOCKING PROTECTIVE STEEL CASING INSTALLED, FURNISHED, AND INITIALIZED BY THE AUTHORITY AT THE TOE OF THE EMBANKMENT AFTER WICK DRAIN INSTALLATION AND PRIOR TO PLACEMENT OF EMBANKMENT FILL (SEE INSTRUMENTATION PLANS). PROTECTIVE RAILING SHALL BE INSTALLED AROUND EACH INCLINOMETER BY THE CONTRACTOR.

PREFABRICATED VERTICAL WICK DRAINS (TYP.), SPACED 5' OR 6' ON CENTER (TRIANGULAR ARRAY). (SEE GEOTECHNICAL PLANS FOR LIMITS)

\*\* DEPTH FOR RAMPS AND EVR'S EQUALS 29.5' EXCEPT STATION RANGES NOTED BELOW WHICH EQUAL 4'  
 RAMP B STA. 211+50 TO STA. 213+00  
 RAMP C STA. 300+50 TO STA. 302+50  
 RAMP C STA. 319+00 TO STA. 321+50  
 RAMP D STA. 416+00 TO STA. 419+00



RAMP TYPICAL - ONE STAGE EMBANKMENT

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

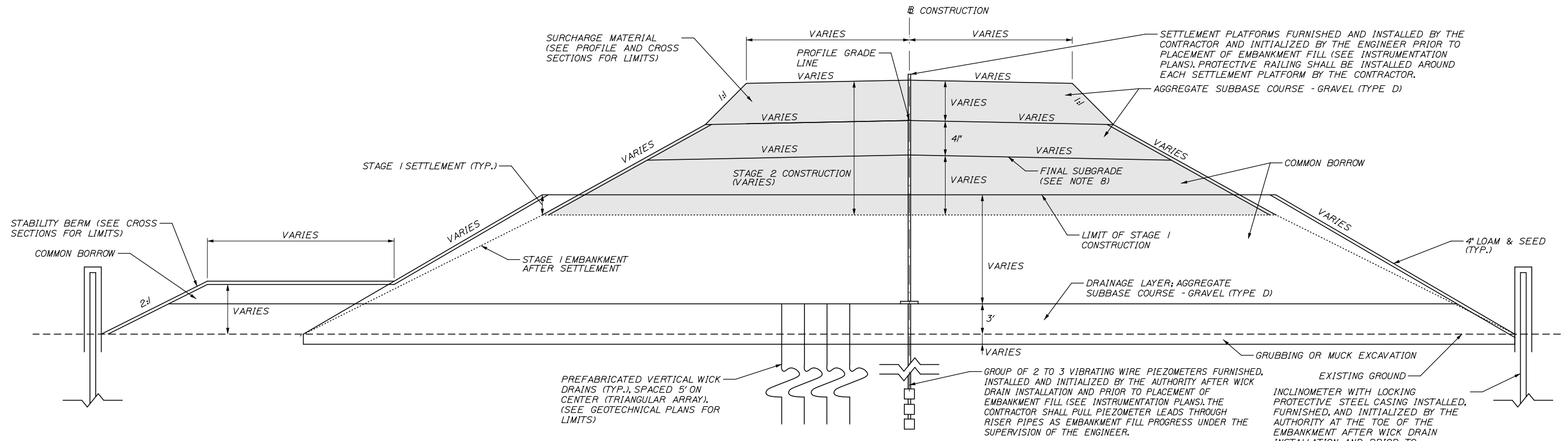
EXIT 45  
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 TYPICAL SECTIONS

SHEET NUMBER: TS-01

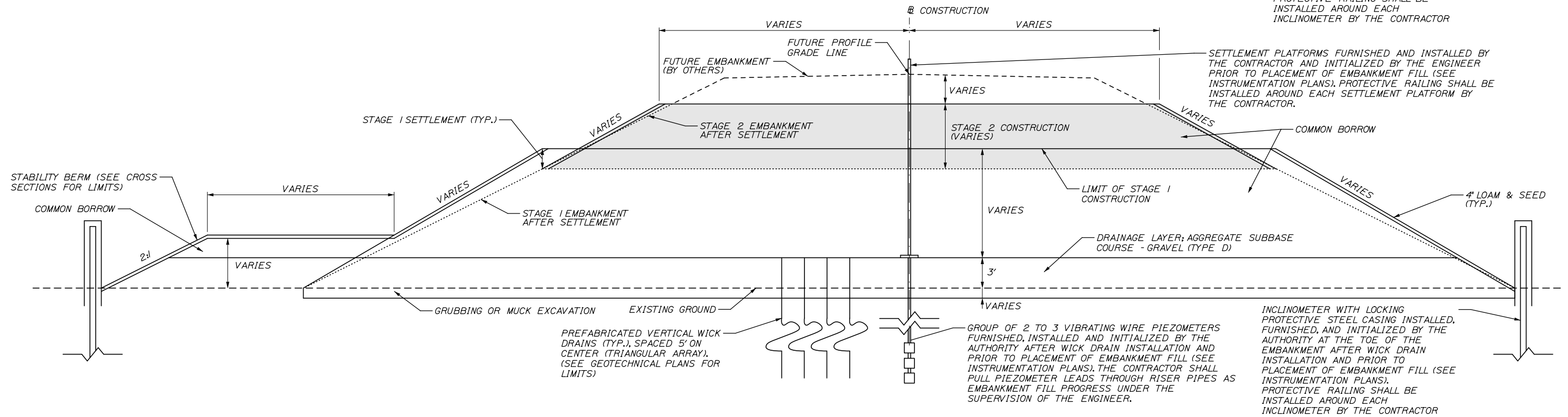
CONTRACT: 2019.13

7 OF 173

Date: 7/26/2019



ROUTE 703 TYPICAL - TWO STAGE EMBANKMENT WITH SURCHARGE



ROUTE 703 TYPICAL - TWO STAGE EMBANKMENT

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

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

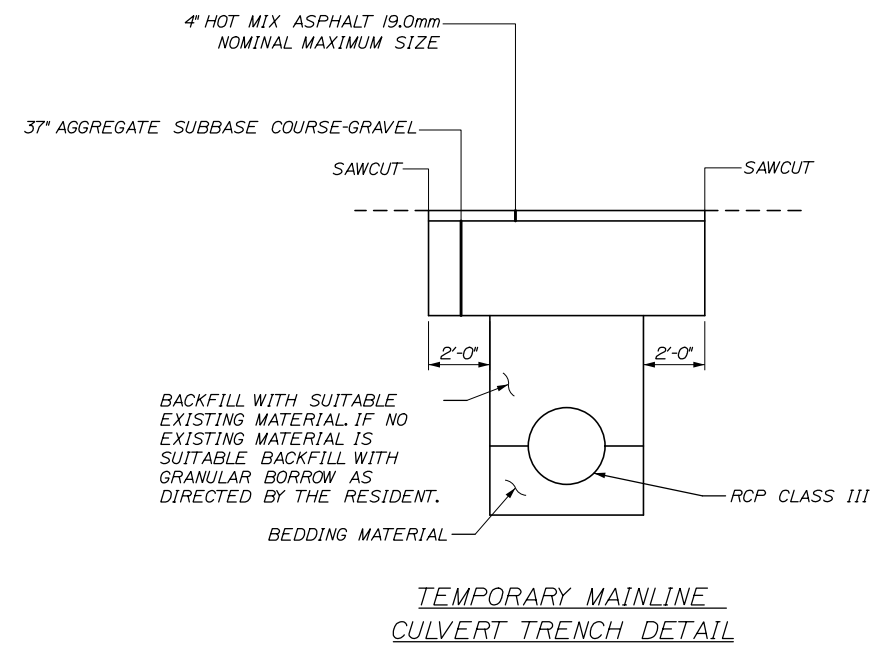
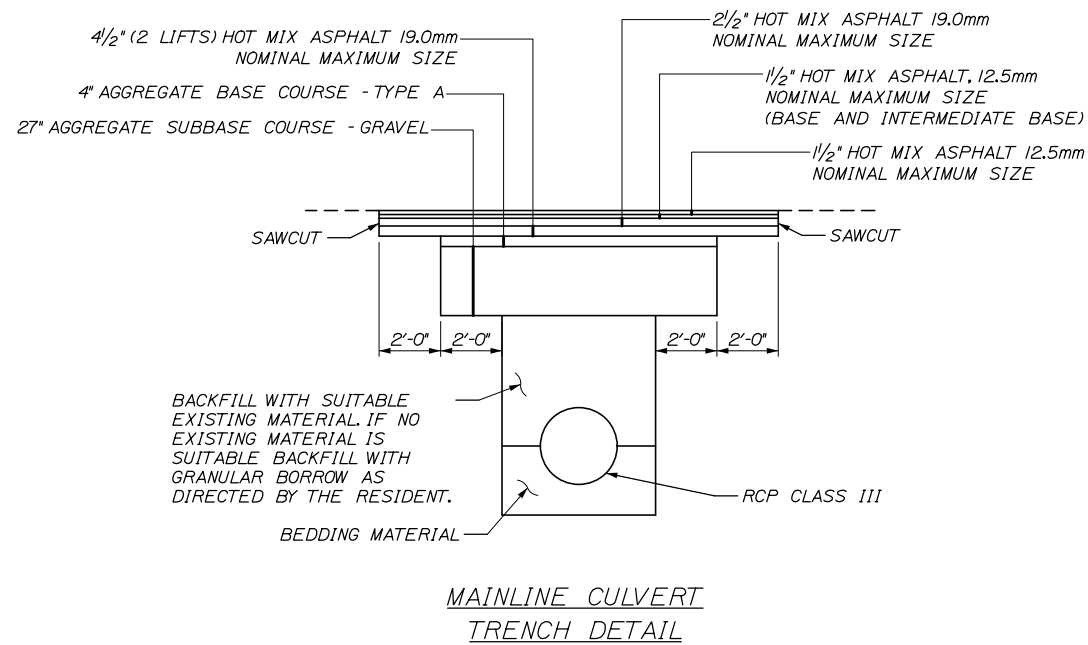
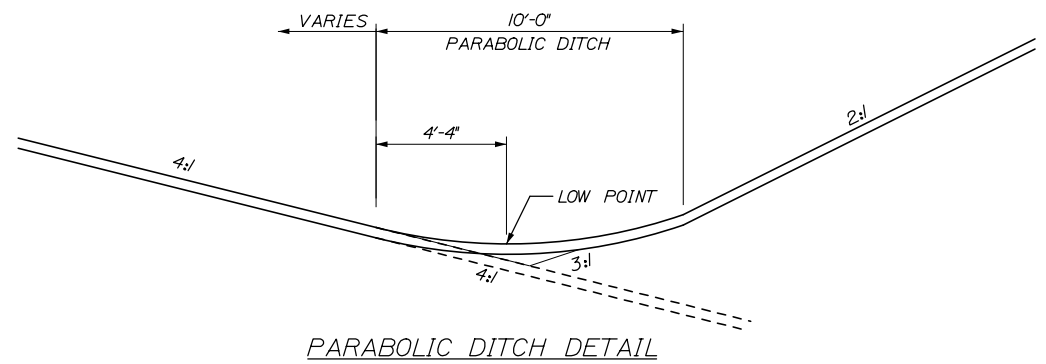
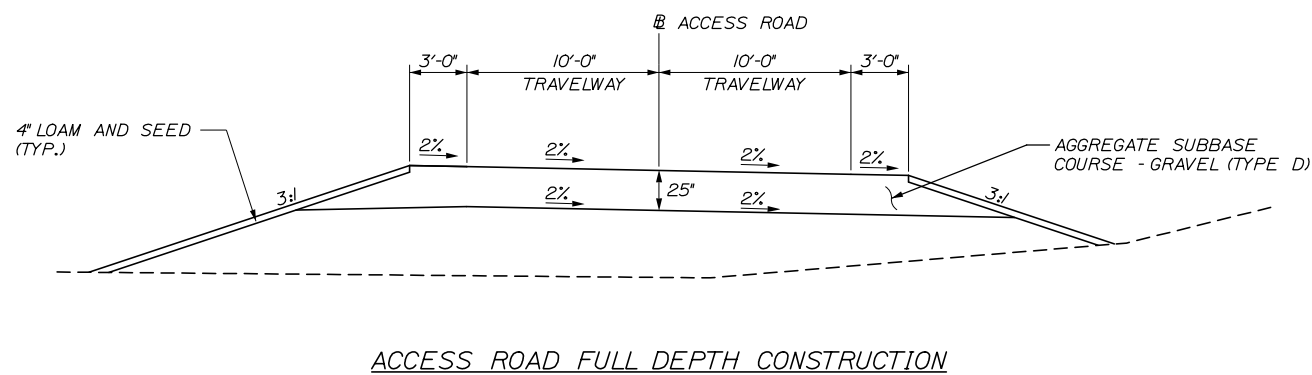
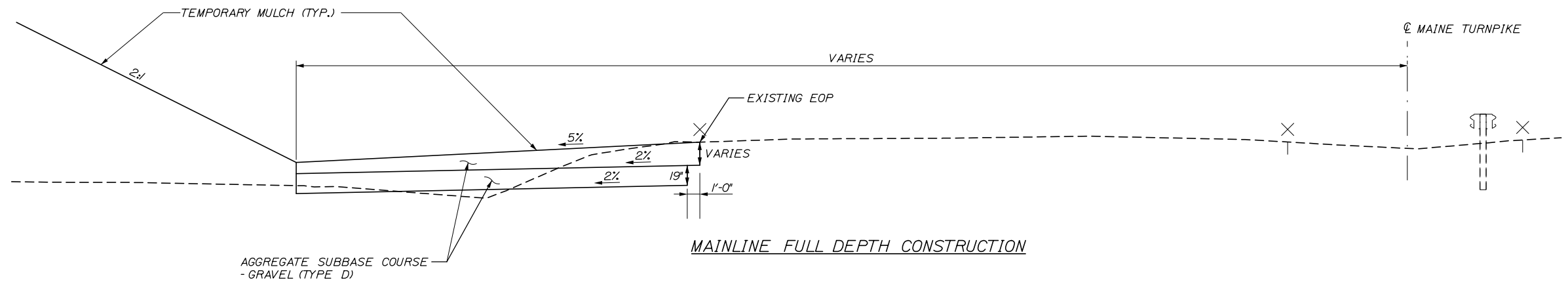
EXIT 45  
 EMBANKMENT PRELOAD  
 TYPICAL SECTIONS

SHEET NUMBER: TS-02  
 8 OF 173

CONTRACT: 2019.13



Date: 7/26/2019



Filename: 00X\_Preload\_TypicalSec03.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	AJS	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

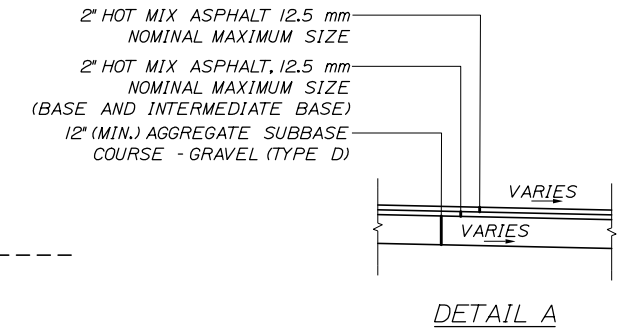
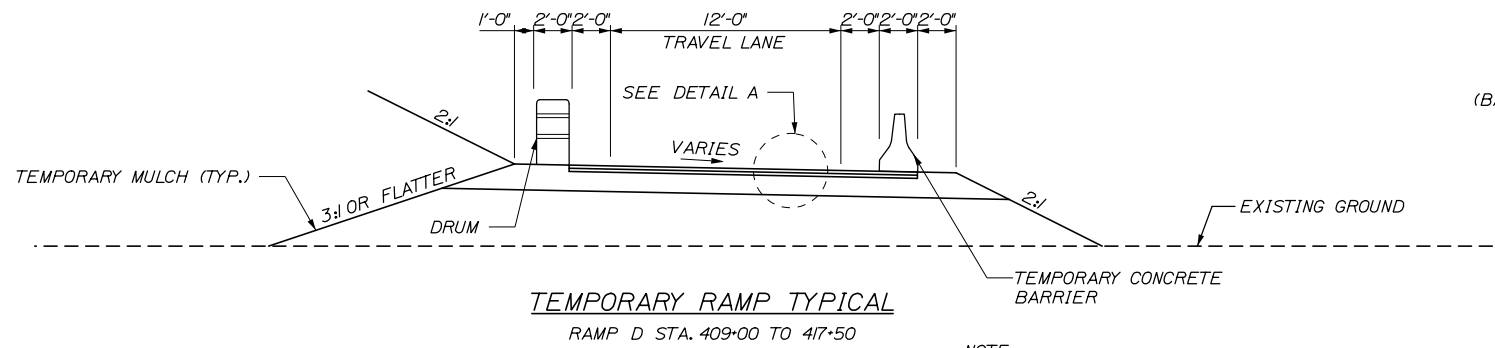
**THE GOLD STAR MEMORIAL HIGHWAY**

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

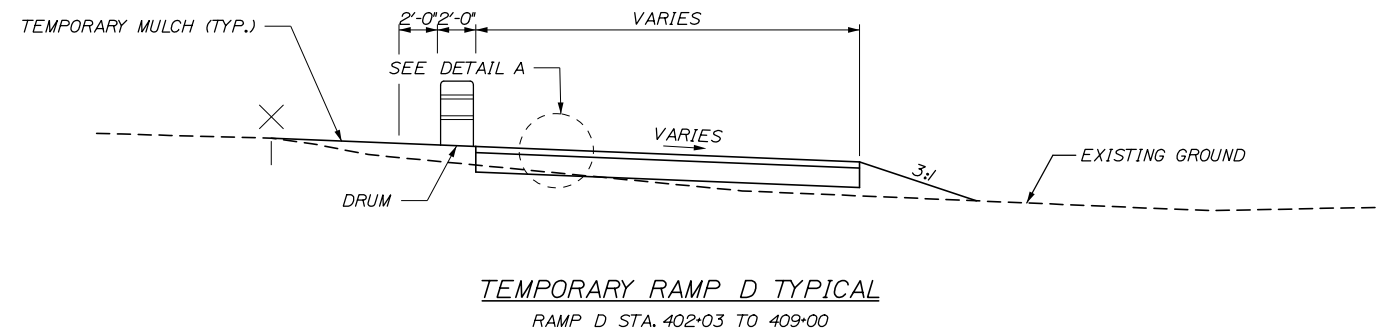
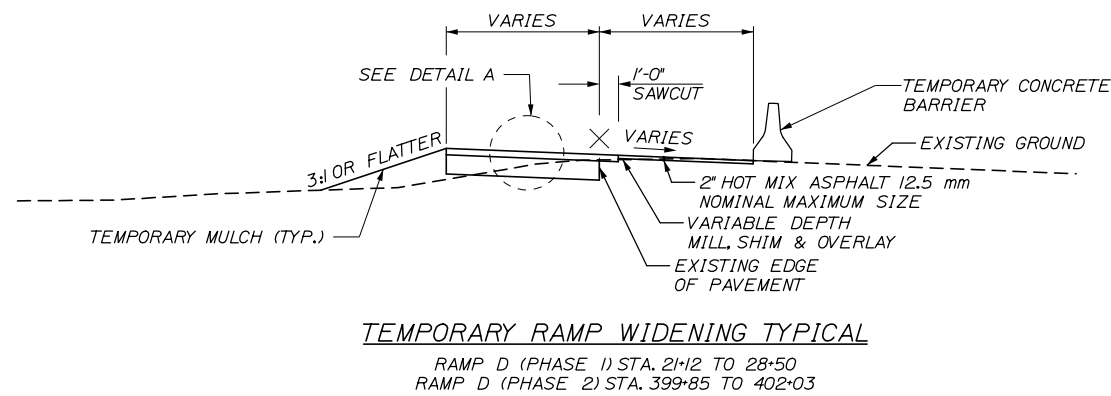
EXIT 45  
 EMBANKMENT PRELOAD  
 TYPICAL SECTIONS

SHEET NUMBER: TS-03  
 CONTRACT: 2019.13  
 9 OF 173

Date: 7/26/2019



**NOTE:**  
1. TYPICAL SHOWS DRUM AND TEMPORARY CONCRETE BARRIER TO SHOW ASSOCIATED REQUIRED DIMENSIONS AND SLOPES, NOT NECESSARILY THE TYPICAL CONDITION.



Filename: 00X\_M01TypicalSec.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

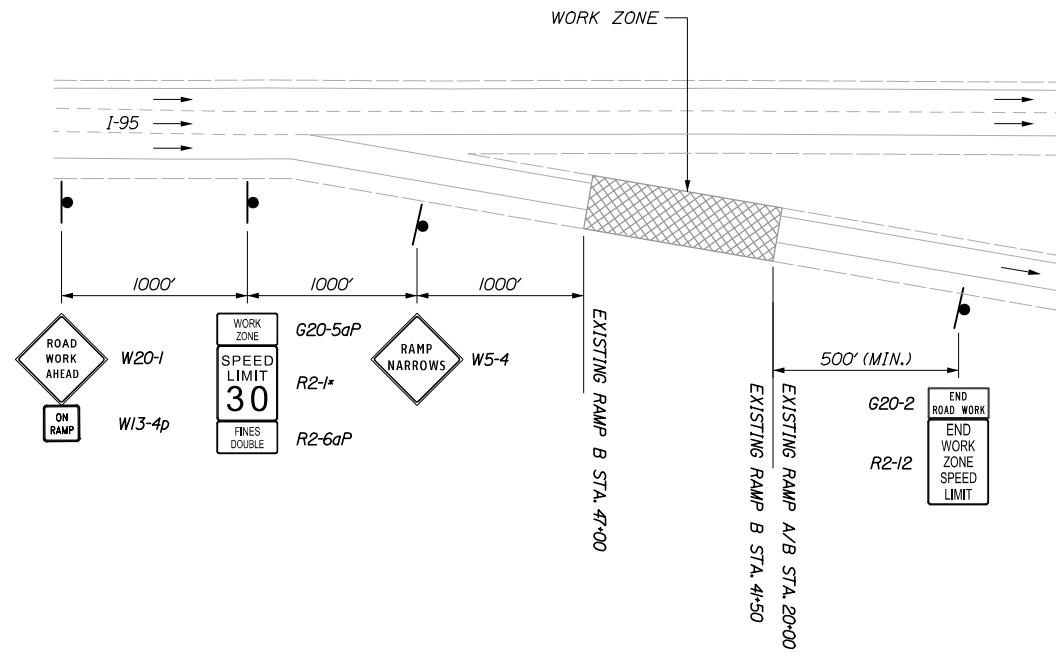
**EXIT 45 EMBANKMENT PRELOAD MAINTENANCE OF TRAFFIC TYPICAL SECTIONS**

SHEET NUMBER: MT-01

CONTRACT: 2019.13

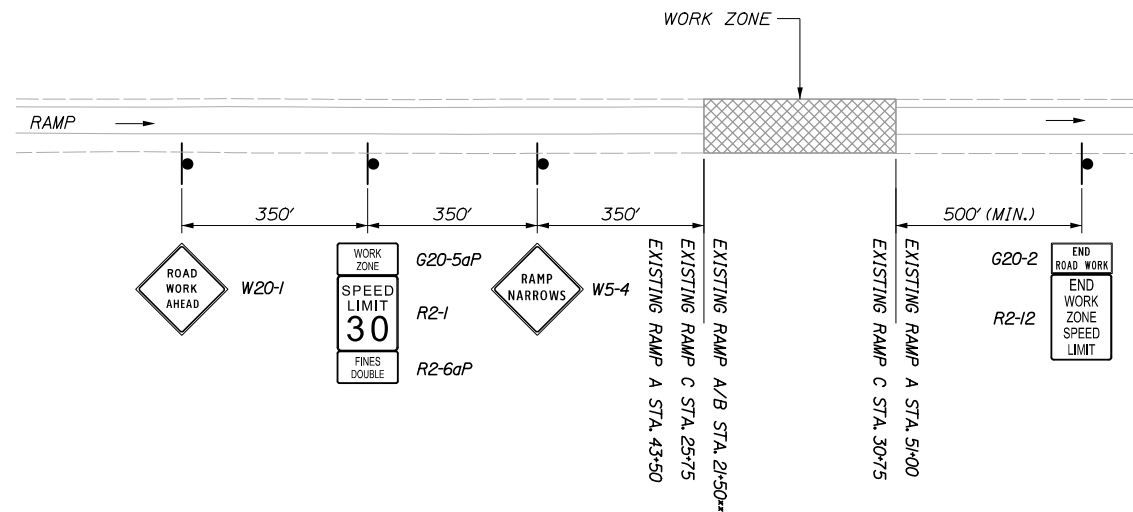
10 OF 173

Date: 7/26/2019



**OFF-RAMP ADVANCED SIGNING**

\* RAMP B SHALL USE A R2-1 (25MPH)



**ON-RAMP ADVANCED SIGNING**

\*\* SIGN PLACEMENT ON RAMP A/B IS ALSO FOR RAMP C WORK

**NOTES:**

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL SIGNS SHALL BE MOUNTED ON NCHRP 350 APPROVED POSTS.

Filename: OXX\_MOT\_Advanced\_Signage.dgn

Scale: NOT TO SCALE

Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
ADVANCED SIGNING DETAIL**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	07\19	Checked JRH 07\19
Drawn	ERR	07\19	In Charge of RAL 07\19

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

CONTRACT: 2019.13

SHEET NUMBER: MT-02

11 OF 173

PCMS MESSAGES

ALL PCMS (1 WEEK PRIOR TO CLOSURE)

EXIT 45  
RAMP TO  
CLOSE

SCREEN 1

XX/XX  
TO  
XX/XX

SCREEN 2

PCMS #1  
EXIT 45  
RAMP  
CLOSED

SCREEN 1

FOR MALL  
AREA USE  
EXIT 42

SCREEN 2

FOR RTE  
1 USE  
EXIT 44

SCREEN 3

PCMS #2  
EXIT 45  
RAMP  
CLOSED

SCREEN 1

USE  
EXIT  
46

SCREEN 2

PCMS #3,4  
EXIT 45  
RAMP  
CLOSED

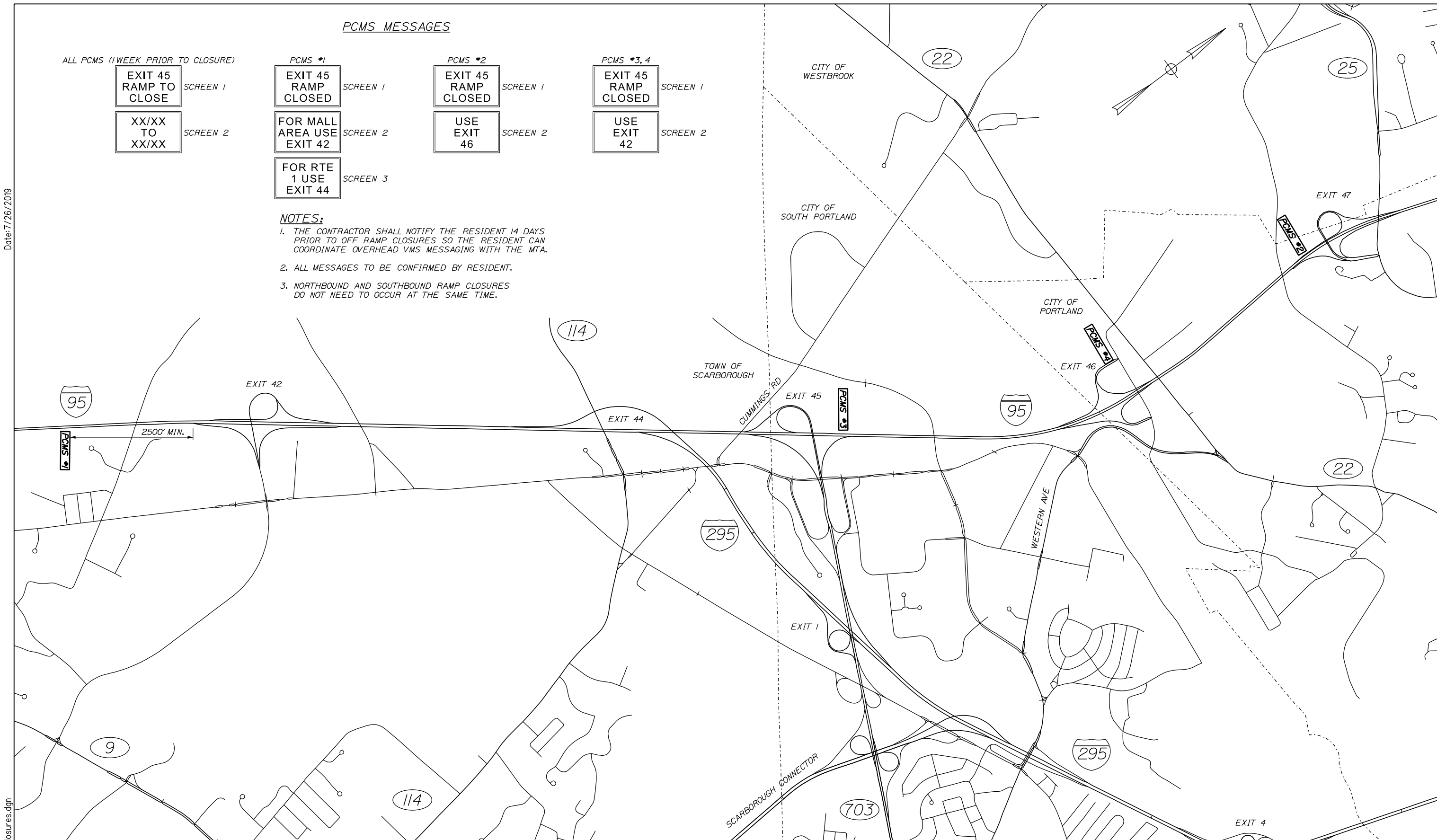
SCREEN 1

USE  
EXIT  
42

SCREEN 2

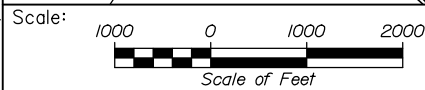
NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 14 DAYS PRIOR TO OFF RAMP CLOSURES SO THE RESIDENT CAN COORDINATE OVERHEAD VMS MESSAGING WITH THE MTA.
2. ALL MESSAGES TO BE CONFIRMED BY RESIDENT.
3. NORTHBOUND AND SOUTHBOUND RAMP CLOSURES DO NOT NEED TO OCCUR AT THE SAME TIME.



Date: 7/26/2019

Filename: OXX\_MOTOffRampClosures.dgn



No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
OFF RAMP CLOSURE PLAN

SHEET NUMBER: MT-03

CONTRACT: 2019.13

12 OF 173

**PCMS MESSAGES**

ALL PCMS (1 WEEK PRIOR TO CLOSURE)

**I-95 XX  
EXIT 45  
TO CLOSE** SCREEN 1  
**XX/XX  
TO  
XX/XX** SCREEN 2

PCMS #1, 2, 3, & 4 (SB)

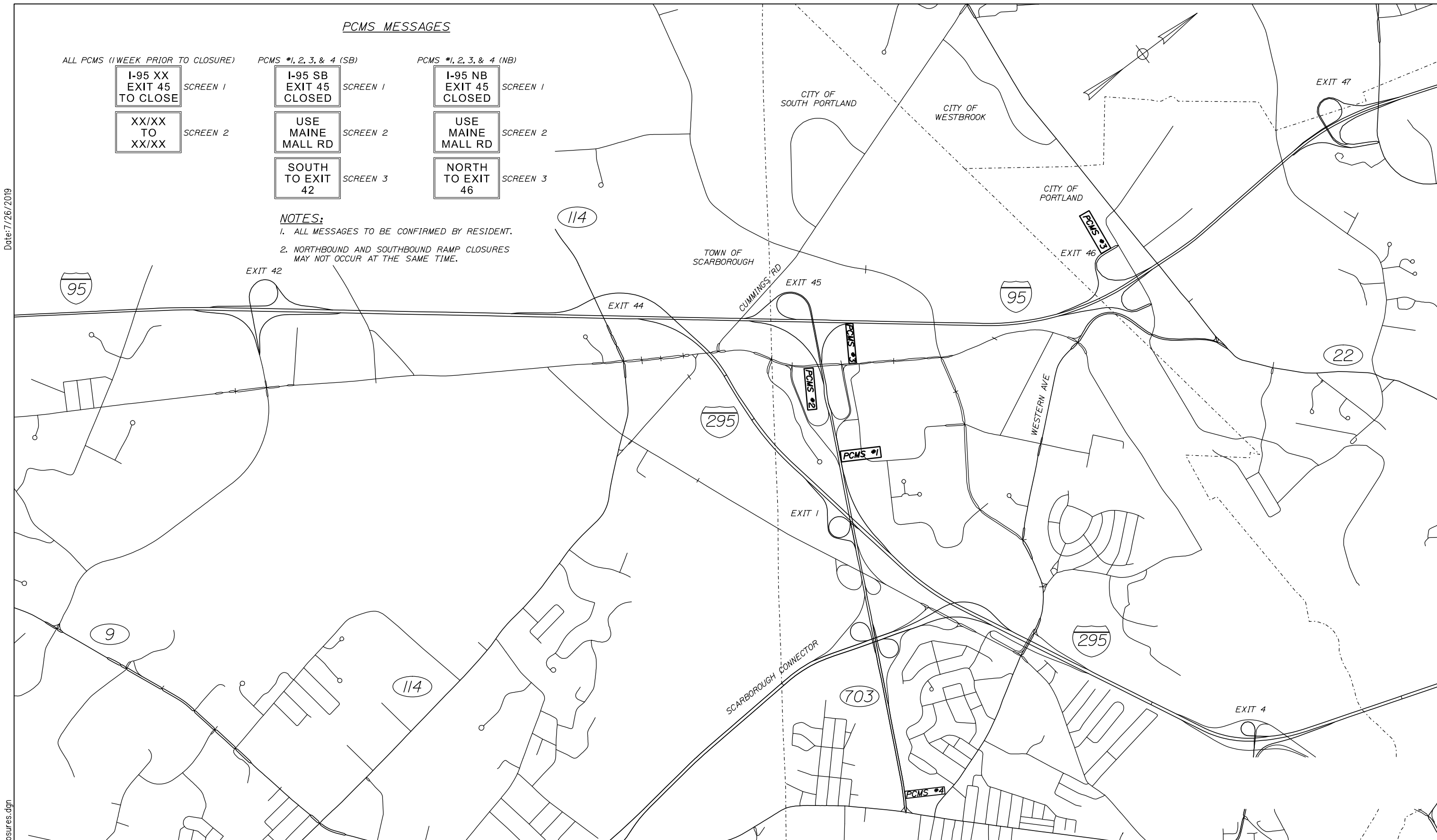
**I-95 SB  
EXIT 45  
CLOSED** SCREEN 1  
**USE  
MAINE  
MALL RD** SCREEN 2  
**SOUTH  
TO EXIT  
42** SCREEN 3

PCMS #1, 2, 3, & 4 (NB)

**I-95 NB  
EXIT 45  
CLOSED** SCREEN 1  
**USE  
MAINE  
MALL RD** SCREEN 2  
**NORTH  
TO EXIT  
46** SCREEN 3

**NOTES:**

1. ALL MESSAGES TO BE CONFIRMED BY RESIDENT.
2. NORTHBOUND AND SOUTHBOUND RAMP CLOSURES MAY NOT OCCUR AT THE SAME TIME.



Date: 7/26/2019

Filename: OXX\_MOTONRampClosures.dgn

Scale: 1000 0 1000 2000  
Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
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Westbrook, ME 04092  
TEL (207) 774-5155  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

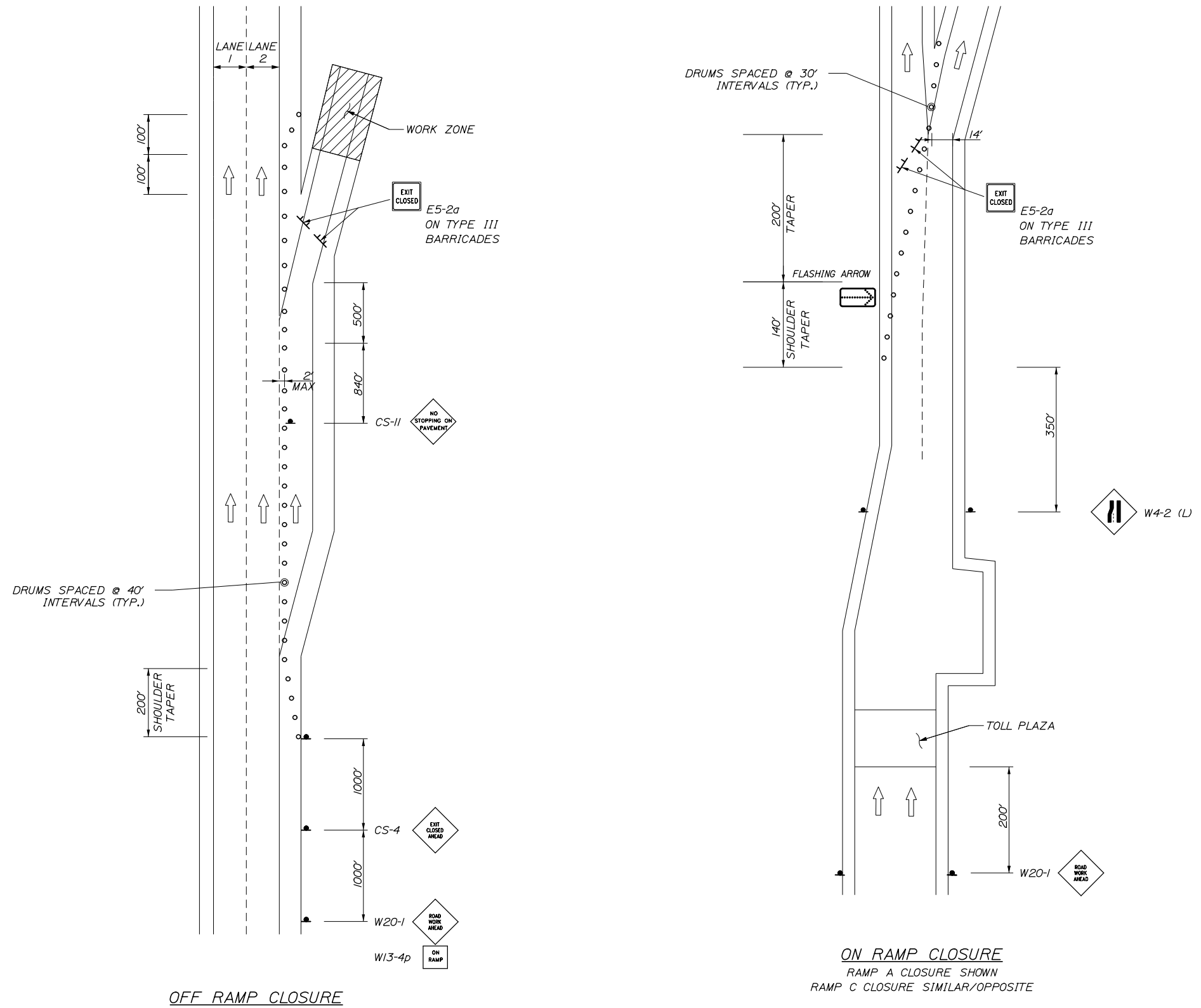
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
ON RAMP CLOSURE PLAN**

SHEET NUMBER: MT-04  
CONTRACT: 2019.13  
13 OF 173

Date: 7/26/2019

Filename: 010\_MOT\_Ramp ClosureDetail.dgn



- NOTES:**
1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
  2. ALL SIGNS ARE TO BE MOUNTED ON EASELS.
  3. LANE CLOSURES AT ENTRANCE AND EXIT RAMPS MAY BE COMBINED IF APPROVED BY THE RESIDENT.

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

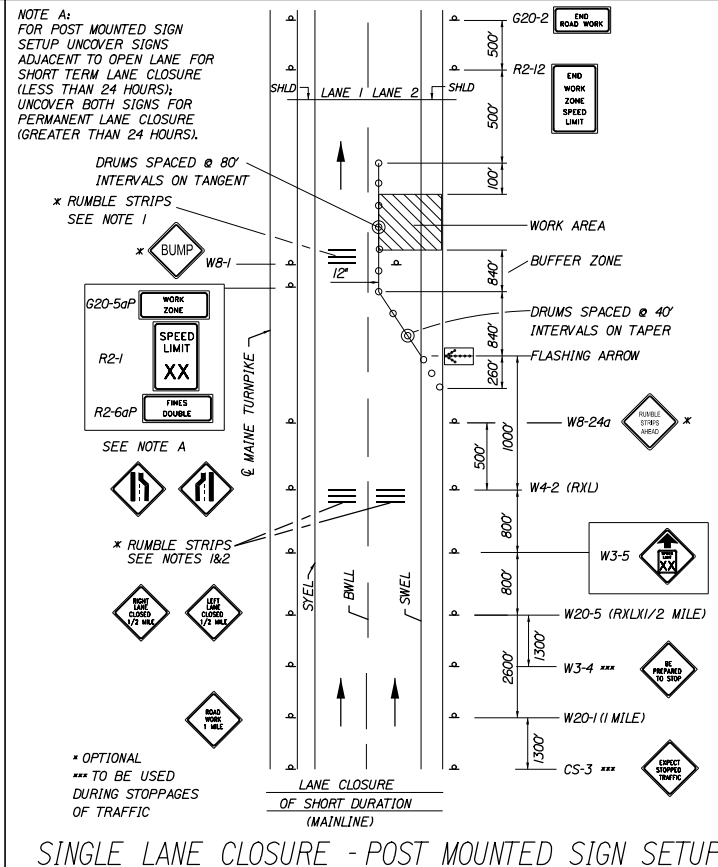
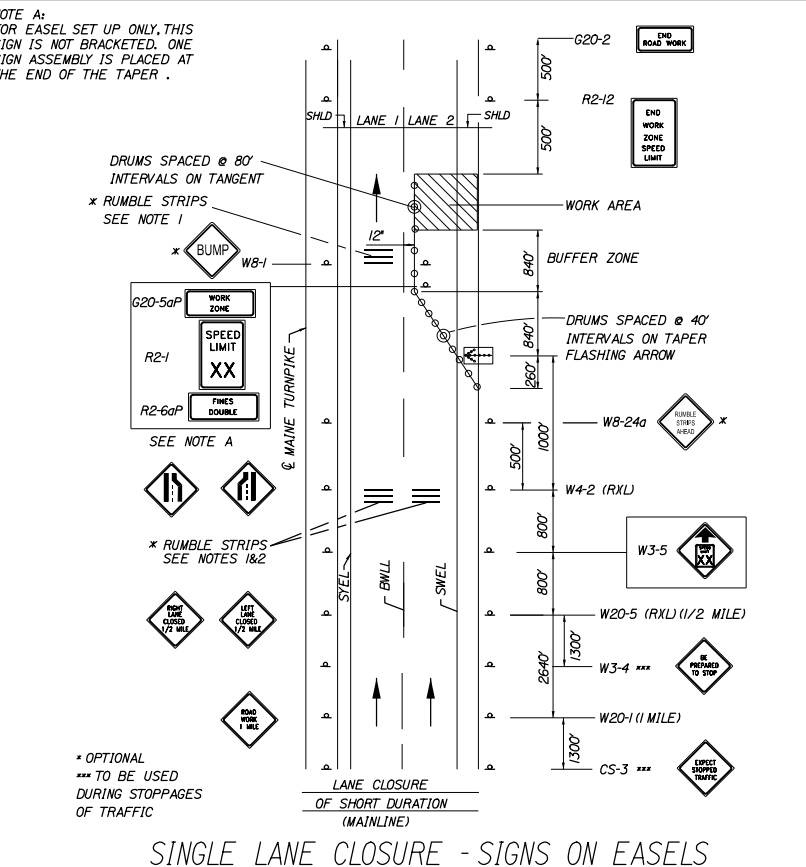
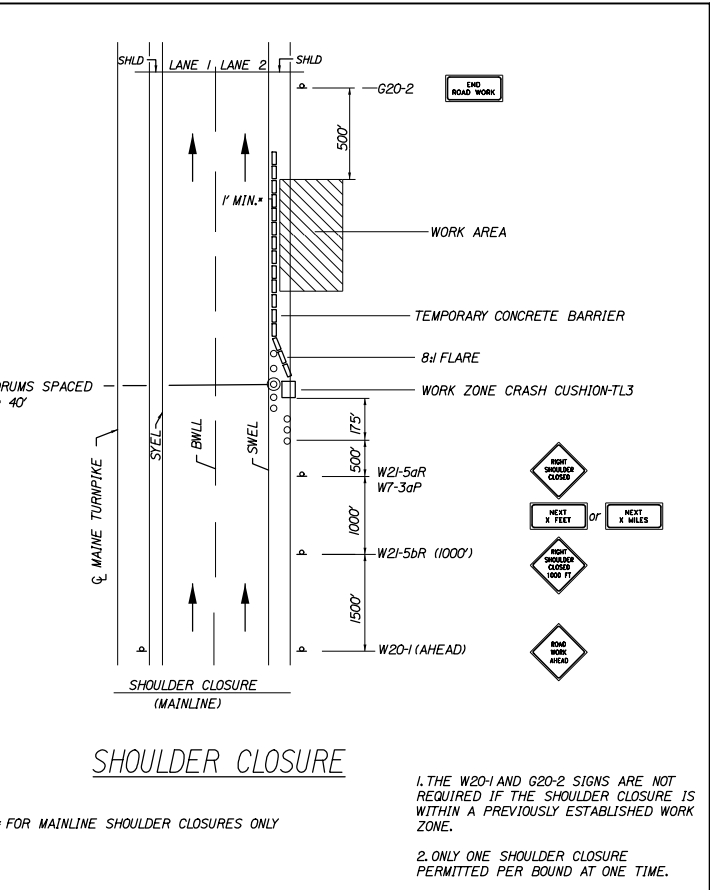
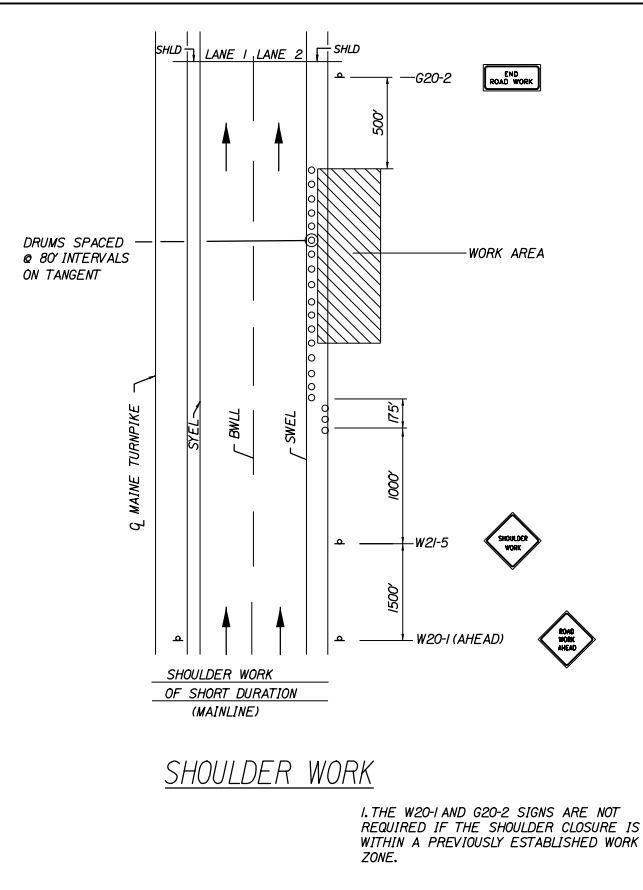
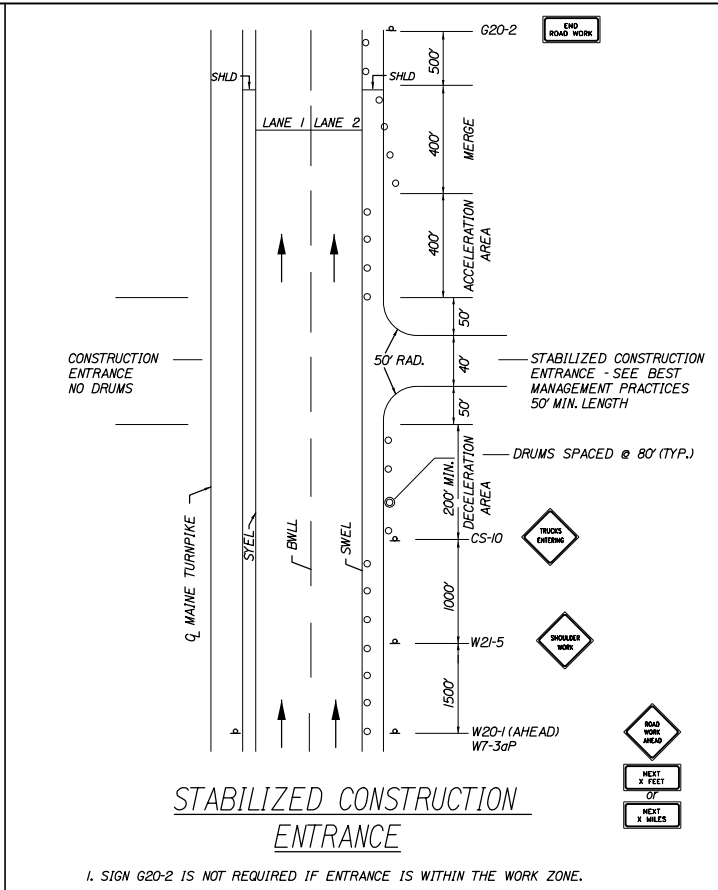
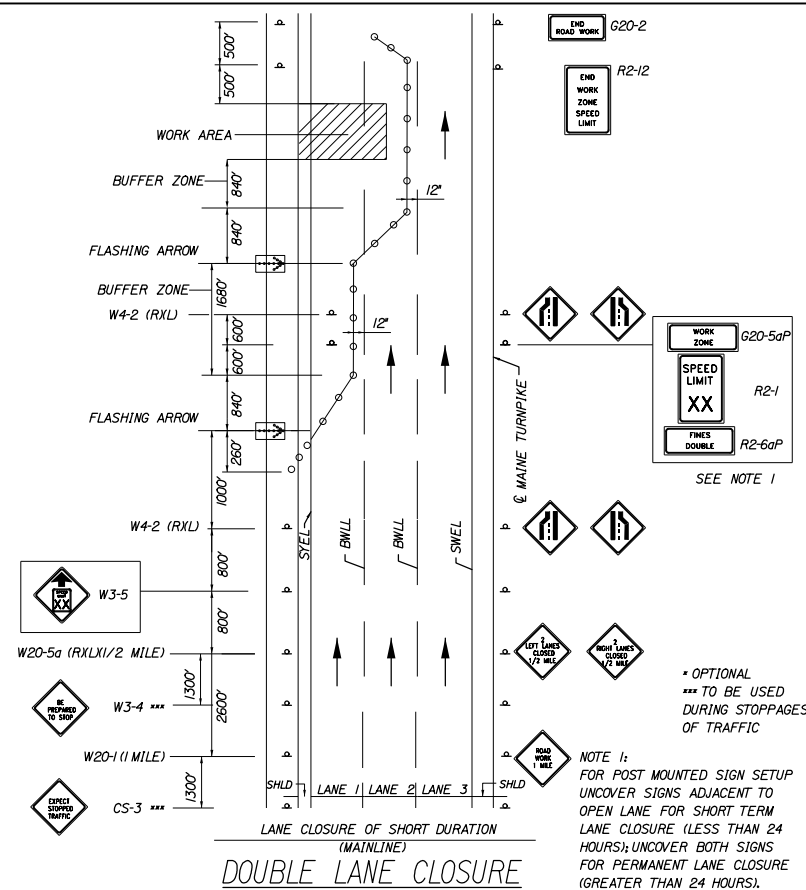
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**MAINTENANCE OF TRAFFIC**  
**RAMP CLOSURE DETAIL**

SHEET NUMBER: MT-05

CONTRACT: 2019.13

14 OF 173

Date: 7/26/2019



- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
- ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
  - THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
  - THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING EXISTING PAVEMENT MARKINGS.
  - EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION - TL-3 ON THE MAINLINE AND UNDER ITEM 527.342 - WORK ZONE CRASH CUSHION - TL-2 ON RAMPS.
  - SPEED LIMIT, STOP AND YIELD SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.
  - EXISTING GUARDRAIL THAT CONFLICTS WITH EMBANKMENT OR TEMPORARY RAMP CONSTRUCTION SHALL BE REMOVED. LEADING ENDS OF THE EXISTING GUARDRAIL SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION AND PAID FOR PER NOTE 4. TRAILING ENDS OF EXISTING GUARDRAIL SHALL BE PROTECTED WITH A TERMINAL END - ANCHORED END (ITEM 606.278).
- ABBREVIATIONS FOR ALL M.O.T. PLANS**
- BWLL = BROKEN WHITE LANE LINE  
SWEL = SOLID WHITE EDGE LINE  
SYEL = SOLID YELLOW EDGE LINE  
TBWLL = TEMPORARY BROKEN WHITE LANE LINE  
TDWEL = TEMPORARY DOTTED WHITE EDGE LINE  
TSWEL = TEMPORARY SOLID WHITE EDGE LINE  
TSWLL = TEMPORARY SOLID WHITE LANE LINE  
TSYCL = TEMPORARY SOLID YELLOW CENTER LINE
- TEMPORARY RUMBLE STRIP NOTES**
- IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:  
\* ADJACENT TO THE WORK ZONE (1 UNIT)  
\* UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)  
\* BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)  
\* BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)  
W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
  - RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

**HNTB**

HNTB CORPORATION  
340 County Road, Suite 6-C  
Westbrook, ME 04092  
TEL (207) 774-5155  
FAX (207) 228-0909

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	07\19	Checked JRH 07\19
Drawn	AJS	07\19	In Charge of RAL 07\19

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD MAINTENANCE OF TRAFFIC DETAILS**

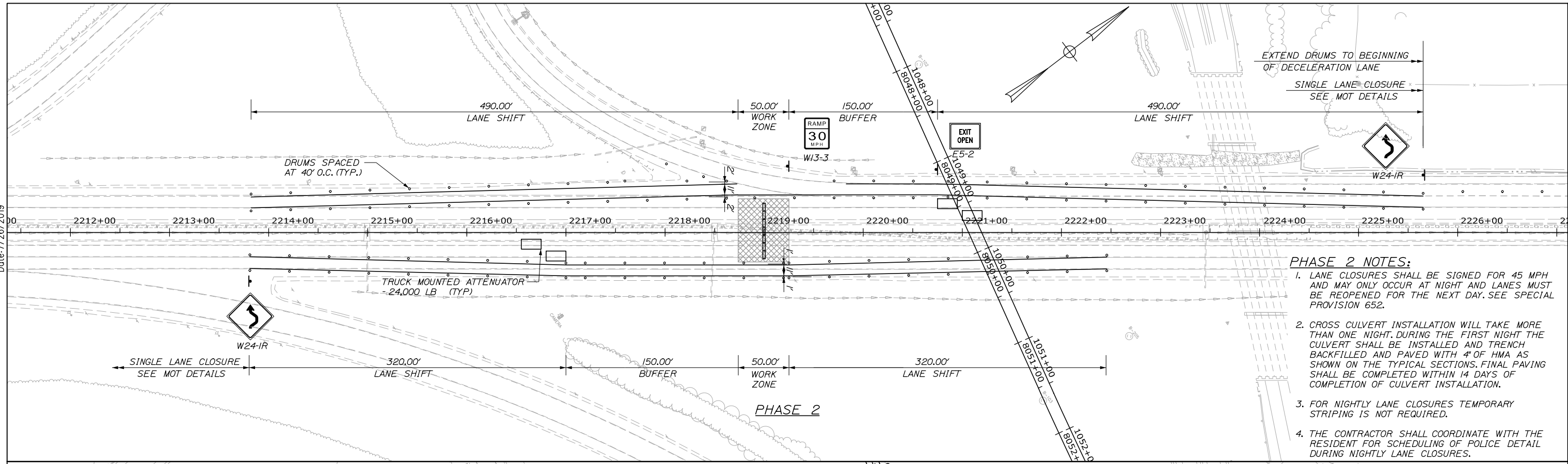
SHEET NUMBER: MT-06

CONTRACT: 2019.13

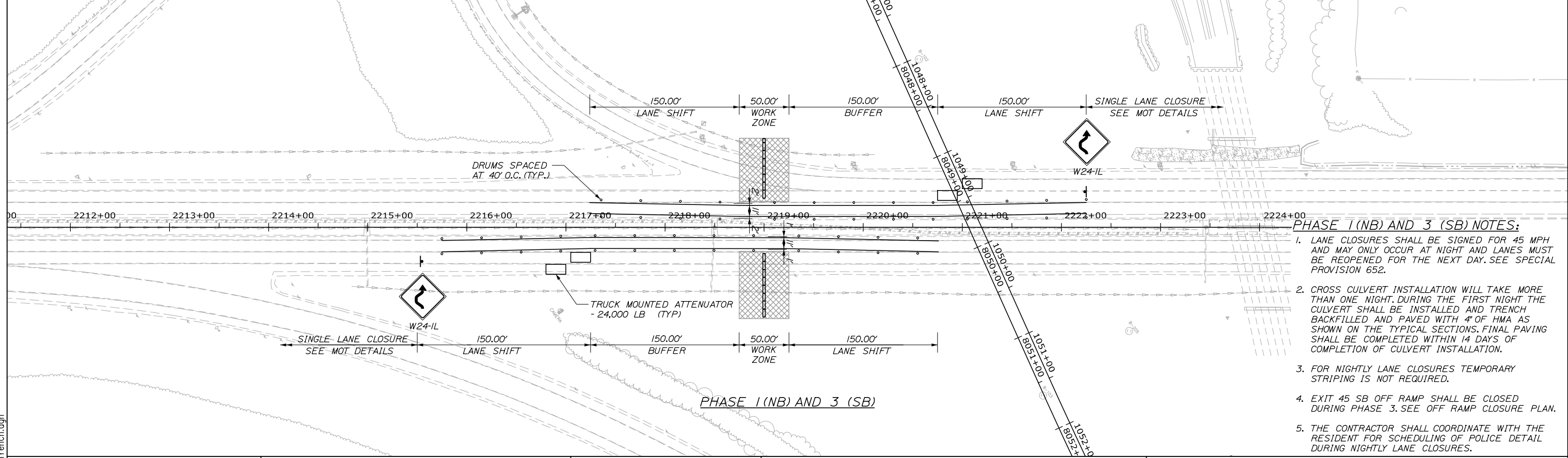
15 OF 173

Date: 7/26/2019

Filename: OXX\_MOT\_MainlineTrench.dgn



- PHASE 2 NOTES:**
1. LANE CLOSURES SHALL BE SIGNED FOR 45 MPH AND MAY ONLY OCCUR AT NIGHT AND LANES MUST BE REOPENED FOR THE NEXT DAY. SEE SPECIAL PROVISION 652.
  2. CROSS CULVERT INSTALLATION WILL TAKE MORE THAN ONE NIGHT. DURING THE FIRST NIGHT THE CULVERT SHALL BE INSTALLED AND TRENCH BACKFILLED AND PAVED WITH 4" OF HMA AS SHOWN ON THE TYPICAL SECTIONS. FINAL PAVING SHALL BE COMPLETED WITHIN 14 DAYS OF COMPLETION OF CULVERT INSTALLATION.
  3. FOR NIGHTLY LANE CLOSURES TEMPORARY STRIPING IS NOT REQUIRED.
  4. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT FOR SCHEDULING OF POLICE DETAIL DURING NIGHTLY LANE CLOSURES.



- PHASE 1 (NB) AND 3 (SB) NOTES:**
1. LANE CLOSURES SHALL BE SIGNED FOR 45 MPH AND MAY ONLY OCCUR AT NIGHT AND LANES MUST BE REOPENED FOR THE NEXT DAY. SEE SPECIAL PROVISION 652.
  2. CROSS CULVERT INSTALLATION WILL TAKE MORE THAN ONE NIGHT. DURING THE FIRST NIGHT THE CULVERT SHALL BE INSTALLED AND TRENCH BACKFILLED AND PAVED WITH 4" OF HMA AS SHOWN ON THE TYPICAL SECTIONS. FINAL PAVING SHALL BE COMPLETED WITHIN 14 DAYS OF COMPLETION OF CULVERT INSTALLATION.
  3. FOR NIGHTLY LANE CLOSURES TEMPORARY STRIPING IS NOT REQUIRED.
  4. EXIT 45 SB OFF RAMP SHALL BE CLOSED DURING PHASE 3. SEE OFF RAMP CLOSURE PLAN.
  5. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT FOR SCHEDULING OF POLICE DETAIL DURING NIGHTLY LANE CLOSURES.

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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 Westbrook, ME 04092  
 TEL (207) 774-5155  
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**THE GOLD STAR MEMORIAL HIGHWAY**

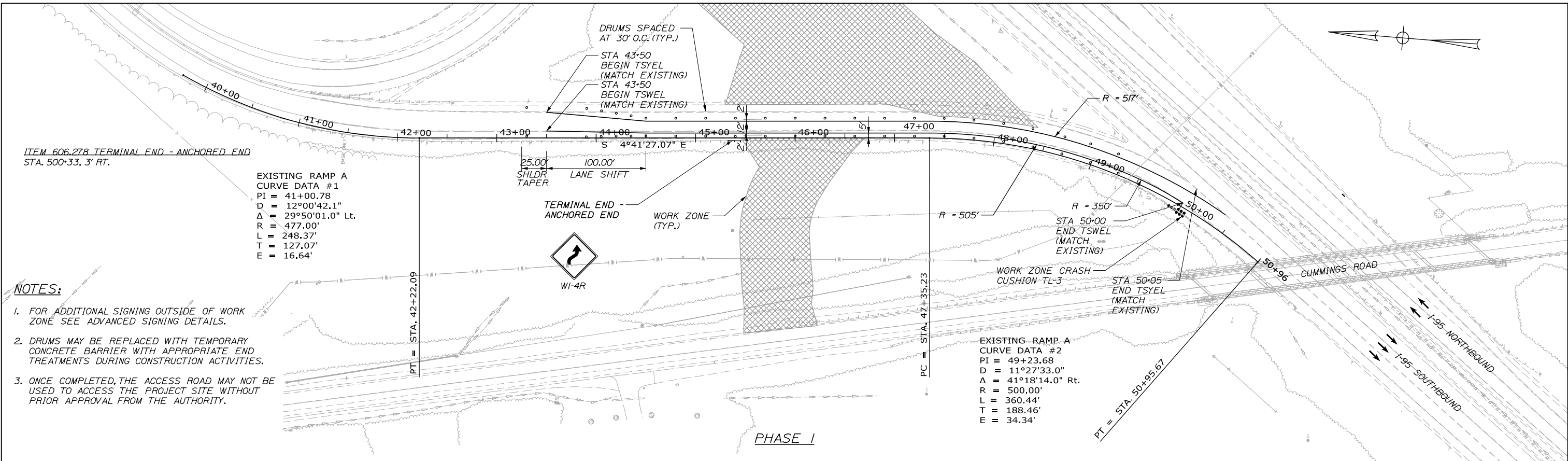
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
 MAINTENANCE OF TRAFFIC  
 MAINLINE CROSS CULVERT

SHEET NUMBER: MT-07  
 CONTRACT: 2019.13  
 16 OF 173

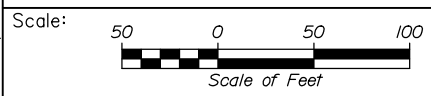


Date: 7/26/2019



- NOTES:**
1. FOR ADDITIONAL SIGNING OUTSIDE OF WORK ZONE SEE ADVANCED SIGNING DETAILS.
  2. DRUMS MAY BE REPLACED WITH TEMPORARY CONCRETE BARRIER WITH APPROPRIATE END TREATMENTS DURING CONSTRUCTION ACTIVITIES.
  3. ONCE COMPLETED, THE ACCESS ROAD MAY NOT BE USED TO ACCESS THE PROJECT SITE WITHOUT PRIOR APPROVAL FROM THE AUTHORITY.

Filename: 0XX\_MOT\_Ramp\_A.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
RAMP A PLAN

SHEET NUMBER: MT-08  
CONTRACT: 2019.13  
17 OF 173

MOT RAMP A/B  
 CURVE DATA #1  
 PI = 733+26.50  
 D = 12°22'29.6"  
 Δ = 17°58'17.4" Lt.  
 R = 463.00'  
 L = 145.23'  
 T = 73.21'  
 E = 5.75'

EXISTING RAMP A/B  
 CURVE DATA #1  
 PI = 37+16.86  
 D = 12°43'56.6"  
 Δ = 90°00'58.0" Lt.  
 R = 450.00'  
 L = 706.98'  
 T = 450.13'  
 E = 186.49'

MOT RAMP A/B  
 CURVE DATA #2  
 PI = 734+88.46  
 D = 14°19'26.2"  
 Δ = 25°20'48.5" Lt.  
 R = 400.00'  
 L = 176.95'  
 T = 89.95'  
 E = 9.99'

**NOTES:**

- FOR ADDITIONAL SIGNING OUTSIDE OF WORK ZONE SEE ADVANCED SIGNING DETAILS.
- DRUMS MAY BE REPLACED WITH TEMPORARY CONCRETE BARRIER WITH APPROPRIATE END TREATMENTS DURING CONSTRUCTION ACTIVITIES.
- 2 LAYERS OF WOOD BLOCKING MAY BE NECESSARY UNDER TEMPORARY CONCRETE BARRIER TO FACILITATE DRAINAGE.

ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2 LEFT IN PLACE  
 STA. 735+88, 30' RT.

ITEM 606.1724 BRIDGE TRANSITION - TYPE II, MODIFIED  
 STA. 735+44, 6' RT.

STA 35-79  
 BEGIN  
 TEMPORARY  
 CONCRETE  
 BARRIER

STA 35-96  
 END TEMPORARY  
 CONCRETE BARRIER

MODIFIED BRIDGE  
 TRANSITION TYPE II

STA 36-00  
 END TSWEL  
 (MATCH EXISTING)

STA 36-00  
 END TSYEL  
 (MATCH EXISTING)

STA 36-00  
 END TSWEL  
 (MATCH EXISTING)

WORK ZONE CRASH  
 CUSHION TL-2

STA 35-79  
 END TEMPORARY  
 CONCRETE BARRIER

WORK ZONE  
 (TYP.)

PHASE I

STA 32-00  
 BEGIN TSWEL  
 (MATCH EXISTING)

STA 31-87  
 BEGIN TEMPORARY  
 CONCRETE BARRIER

CONNECTION OF EXISTING  
 BARRIERGUARD 800 TO TEMPORARY  
 CONCRETE BARRIER SHALL BE IN  
 ACCORDANCE WITH HIGHWAY CARE,  
 LTD STANDARD DRAWING BG-90-II.  
 PAYMENT OF CONNECTION SHALL BE  
 INCIDENTAL TO THE TEMPORARY  
 CONCRETE BARRIER.

RESET EXISTING W  
 TEMPORARY  
 CONCRETE BARRIER  
 (INCIDENTAL TO  
 TEMPORARY  
 CONCRETE BARRIER)

STA 32-00  
 BEGIN TSWEL  
 (MATCH EXISTING)

STA 32-41

STA 28-50  
 END TSWEL  
 (MATCH EXISTING)

STA 28-50  
 END TSYEL  
 (MATCH EXISTING)

WORK ZONE  
 (TYP.)

ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2 LEFT IN PLACE  
 STA. 23+25, 33' RT.  
 STA. 23+25, 60' RT.

DRUMS SPACED AT  
 30' O.C. (TYP.)

WORK ZONE CRASH  
 CUSHION TL-2

REMOVE GUARDRAIL  
 END TREATMENTS

LANE SHIFT

STA 20-70  
 BEGIN TSWEL  
 (MATCH EXISTING)

STA 20-70  
 BEGIN TSYEL  
 (MATCH EXISTING)

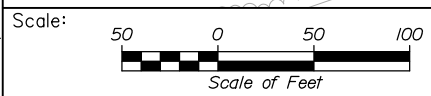
STA 20-00  
 BEGIN TSWEL  
 (MATCH EXISTING)

STA 20-25  
 BEGIN TSWEL  
 (MATCH EXISTING)

PHASE I

Date: 7/26/2019

Filename: 0XX\_MOT\_Ramp\_A-B.dgn



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 MAINTENANCE OF TRAFFIC  
 RAMP A/B PLAN

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
No.	Revision	By	Date	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

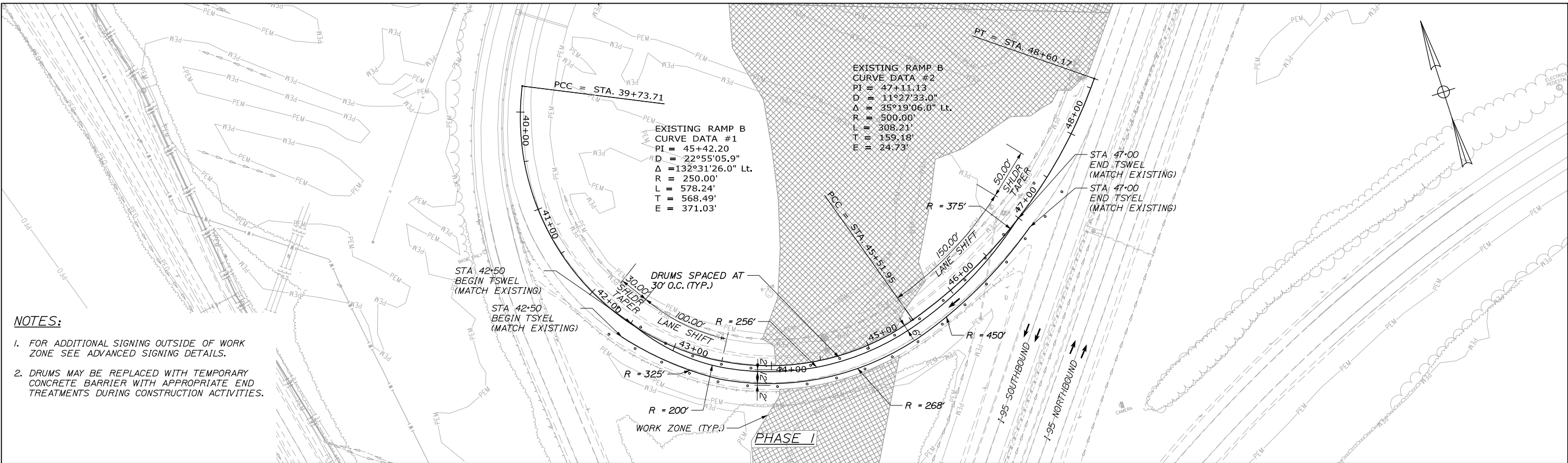
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: MT-09

18 OF 173

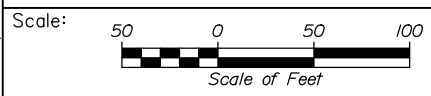
Date: 7/26/2019



**NOTES:**

1. FOR ADDITIONAL SIGNING OUTSIDE OF WORK ZONE SEE ADVANCED SIGNING DETAILS.
2. DRUMS MAY BE REPLACED WITH TEMPORARY CONCRETE BARRIER WITH APPROPRIATE END TREATMENTS DURING CONSTRUCTION ACTIVITIES.

Filename: OXX\_MOT\_Ramp\_B.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

**EXIT 45  
 EMBANKMENT PRELOAD  
 MAINTENANCE OF TRAFFIC  
 RAMP B PLAN**

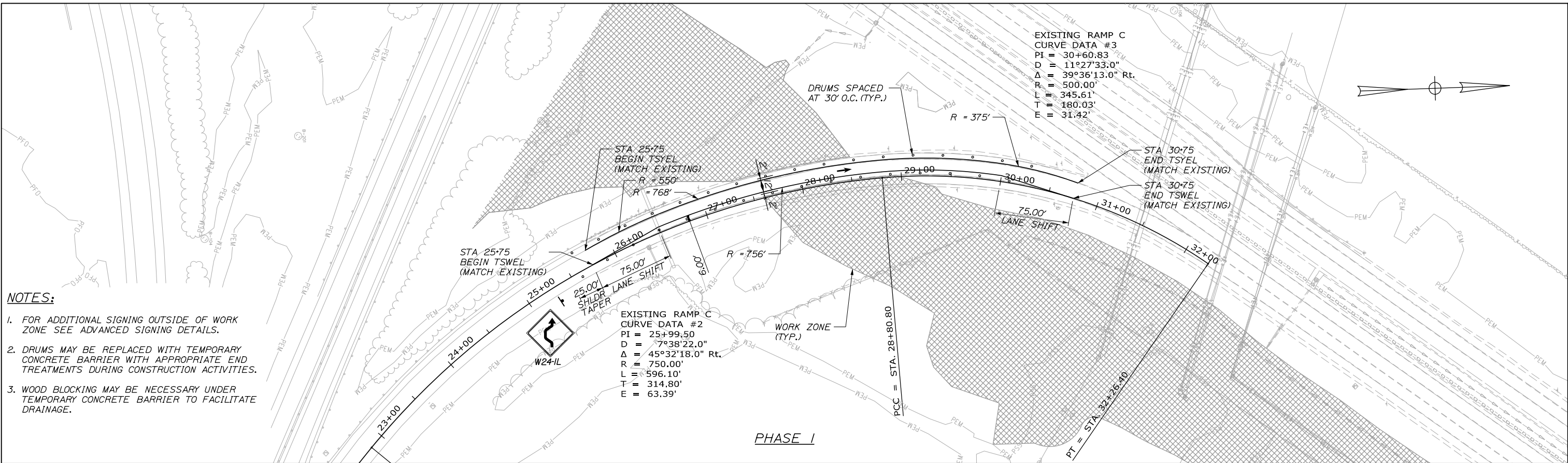
CONTRACT: 2019.13

SHEET NUMBER: MT-10  
 19 OF 173

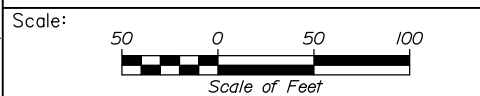
Date: 7/26/2019

**NOTES:**

1. FOR ADDITIONAL SIGNING OUTSIDE OF WORK ZONE SEE ADVANCED SIGNING DETAILS.
2. DRUMS MAY BE REPLACED WITH TEMPORARY CONCRETE BARRIER WITH APPROPRIATE END TREATMENTS DURING CONSTRUCTION ACTIVITIES.
3. WOOD BLOCKING MAY BE NECESSARY UNDER TEMPORARY CONCRETE BARRIER TO FACILITATE DRAINAGE.



Filename: OXX\_MOT\_Ramp\_C.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
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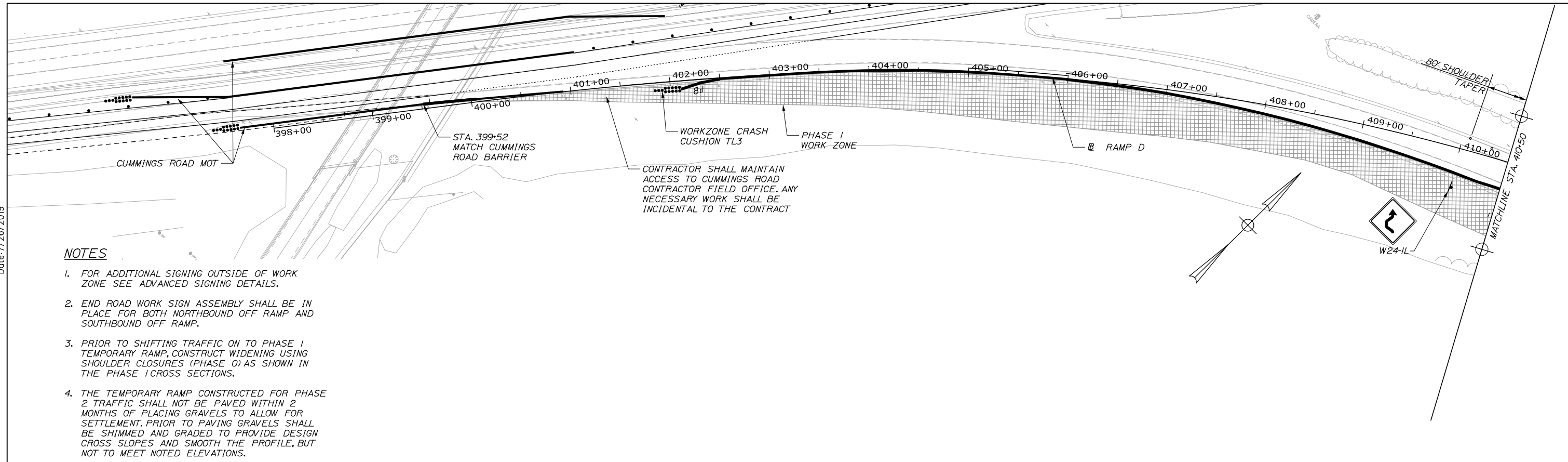
THE GOLD STAR MEMORIAL HIGHWAY

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

EXIT 45  
 EMBANKMENT PRELOAD  
 MAINTENANCE OF TRAFFIC  
 RAMP C PLAN

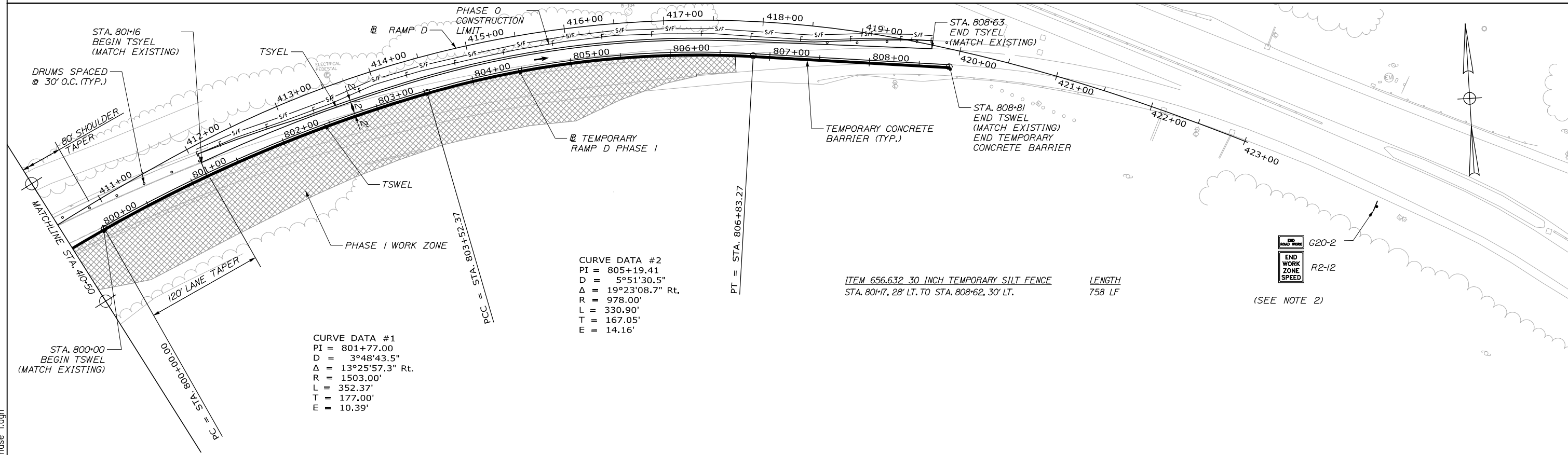
SHEET NUMBER: MT-11  
 CONTRACT: 2019.13  
 20 OF 173

Date: 7/26/2019



**NOTES**

1. FOR ADDITIONAL SIGNING OUTSIDE OF WORK ZONE SEE ADVANCED SIGNING DETAILS.
2. END ROAD WORK SIGN ASSEMBLY SHALL BE IN PLACE FOR BOTH NORTHBOUND OFF RAMP AND SOUTHBOUND OFF RAMP.
3. PRIOR TO SHIFTING TRAFFIC ON TO PHASE 1 TEMPORARY RAMP, CONSTRUCT WIDENING USING SHOULDER CLOSURES (PHASE 0) AS SHOWN IN THE PHASE 1 CROSS SECTIONS.
4. THE TEMPORARY RAMP CONSTRUCTED FOR PHASE 2 TRAFFIC SHALL NOT BE PAVED WITHIN 2 MONTHS OF PLACING GRAVELS TO ALLOW FOR SETTLEMENT. PRIOR TO PAVING GRAVELS SHALL BE SHIMMED AND GRADED TO PROVIDE DESIGN CROSS SLOPES AND SMOOTH THE PROFILE, BUT NOT TO MEET NOTED ELEVATIONS.



Filename: OXX\_MOT\_Ramp D Phase 1.dgn

Scale:

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

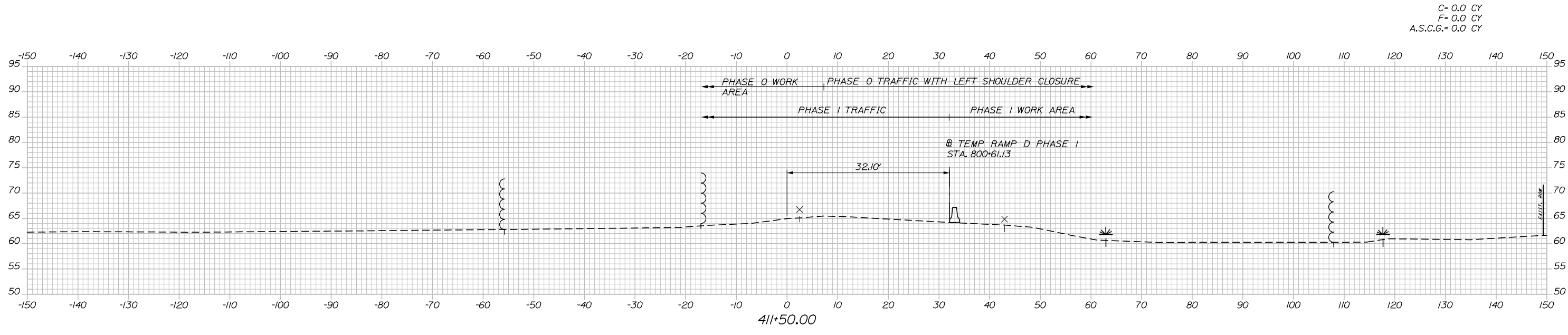
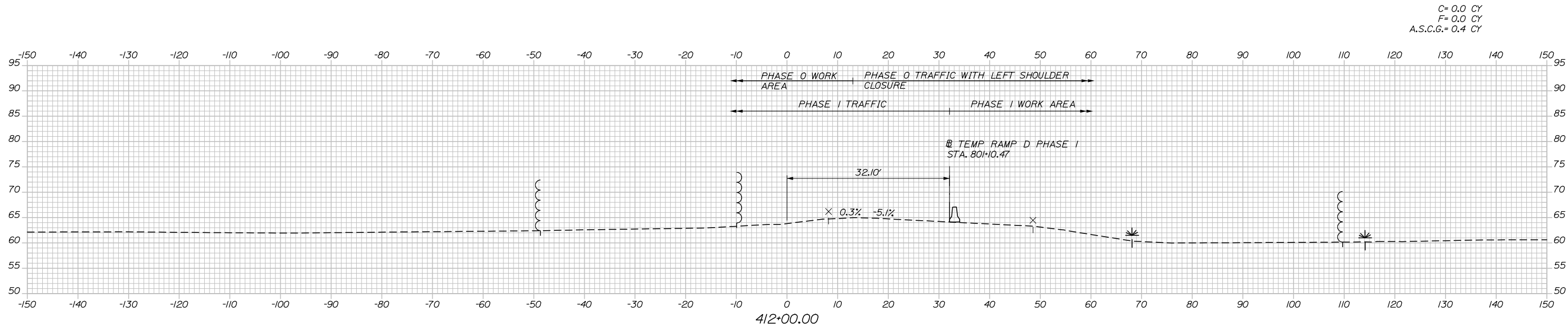
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
RAMP D PLAN - PHASE 1

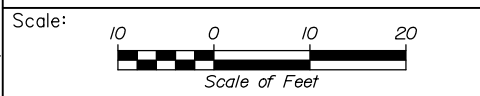
SHEET NUMBER: MT-12  
21 OF 173

CONTRACT: 2019.13

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 1.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

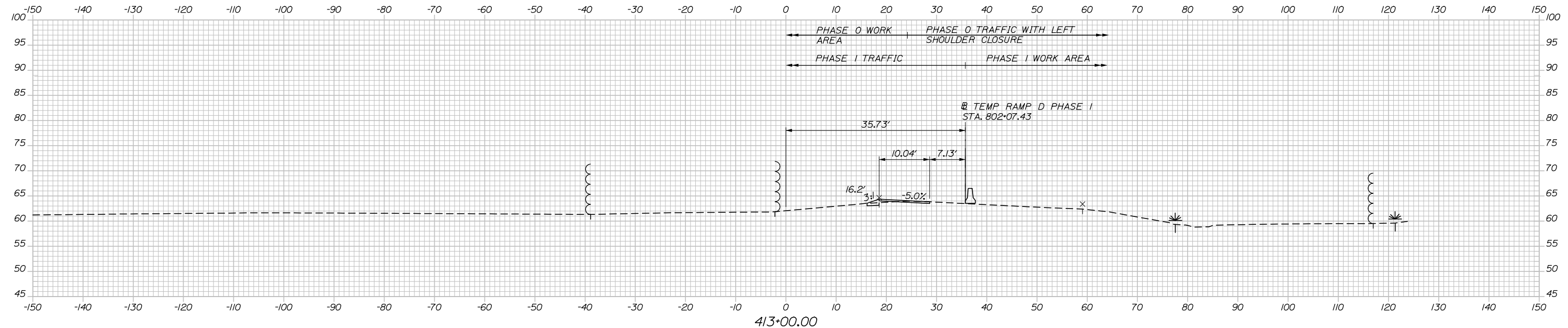
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 1

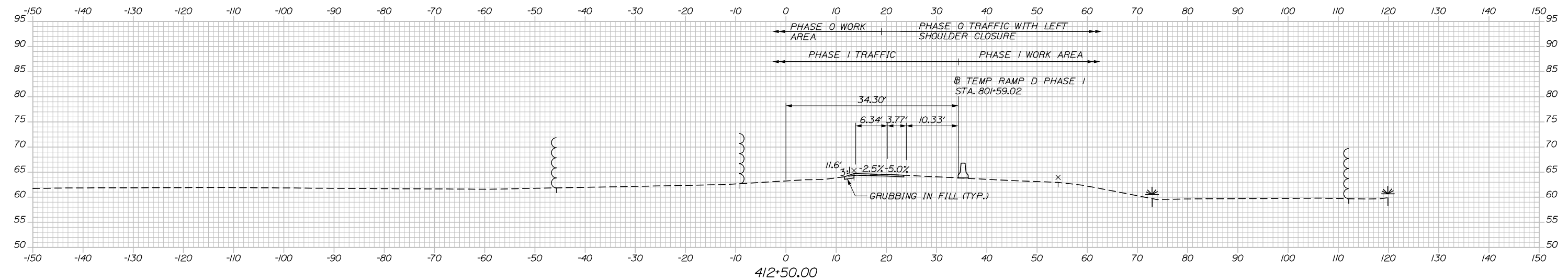
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CONTRACT: 2019.13  
22 OF 173

Date: 7/26/2019

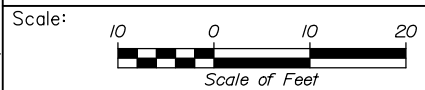
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 F= 0.0 CY  
 A.S.C.G.= 3.0 CY



C= 0.0 CY  
 F= 0.0 CY  
 A.S.C.G.= 1.1 CY



Filename: Xsect - Ramp D MOT Ph 1.dgn



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
	CAH	07\19	
	Checked	JRH	07\19
	By	Date	
	Drawn	AJS	07\19
	In Charge of	RAL	07\19

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

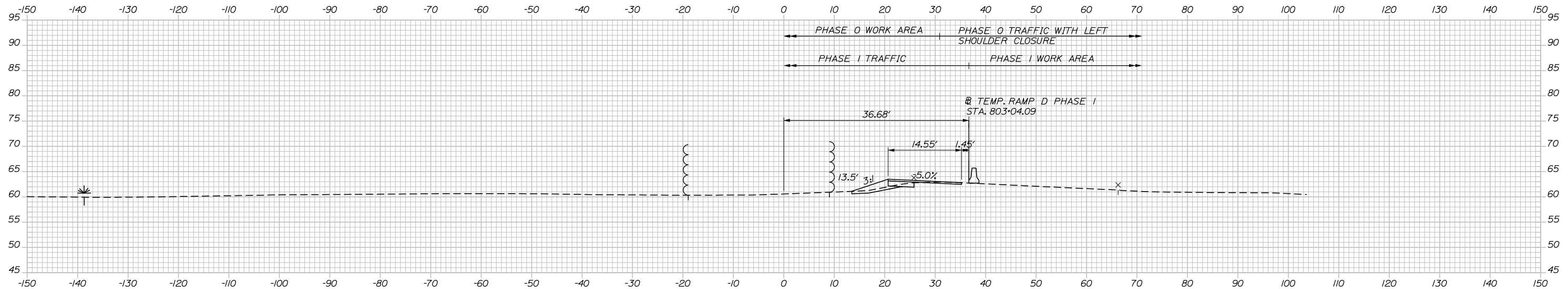
CONTRACT: 2019.13

SHEET NUMBER: MT-14

23 OF 173

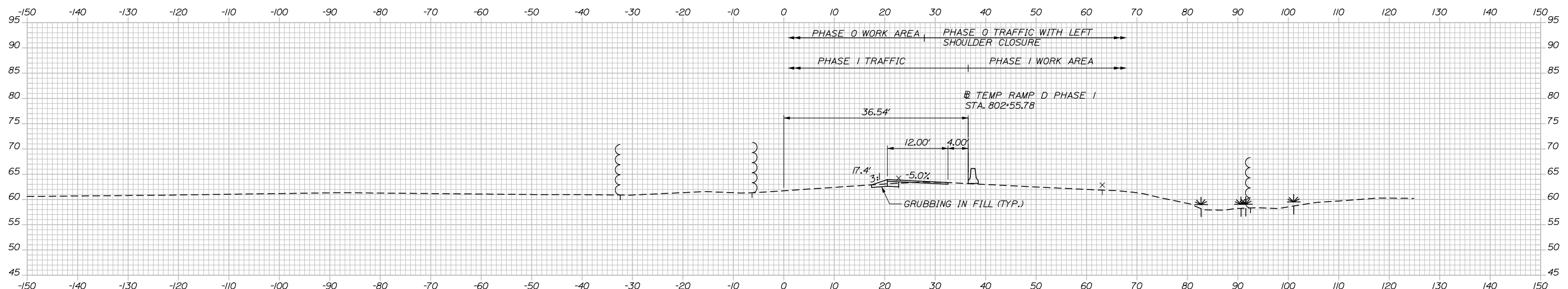
Date: 7/26/2019

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F= 0.0 CY  
A.S.C.G.= 19.7 CY



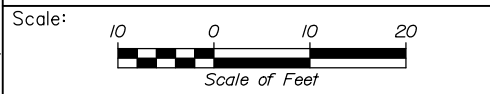
414+00.00

C= 0.6 CY  
F= 0.0 CY  
A.S.C.G.= 11.3 CY



413+50.00

Filename: Xsect - Ramp D MOT Ph 1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

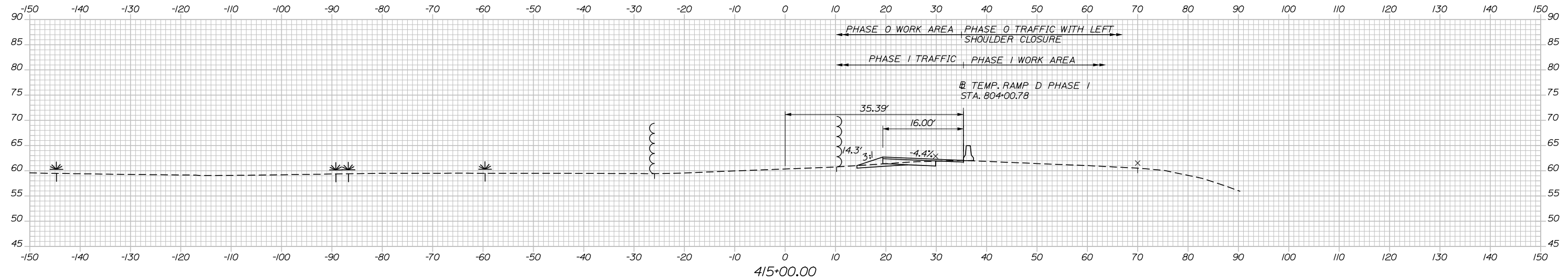
**EXIT 45**  
**INTERCHANGE RECONFIGURATION**  
**MAINTENANCE OF TRAFFIC**  
**CROSS SECTIONS - RAMP D PHASE 1**

SHEET NUMBER: MT-15  
CONTRACT: 2019.13  
24 OF 173

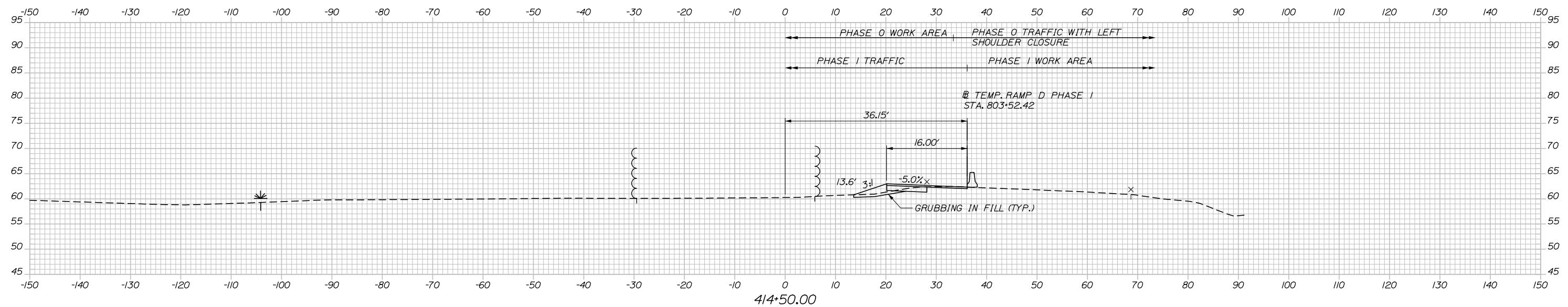


Date: 7/26/2019

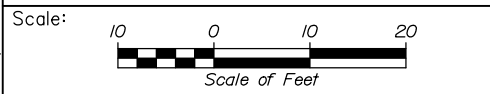
C= 2.9 CY  
 F= 0.0 CY  
 A.S.C.G.= 20.0 CY



C= 2.5 CY  
 F= 0.0 CY  
 A.S.C.G.= 20.0 CY



Filename: Xsect - Ramp D MOT Ph 1.dgn



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THE GOLD STAR  
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EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

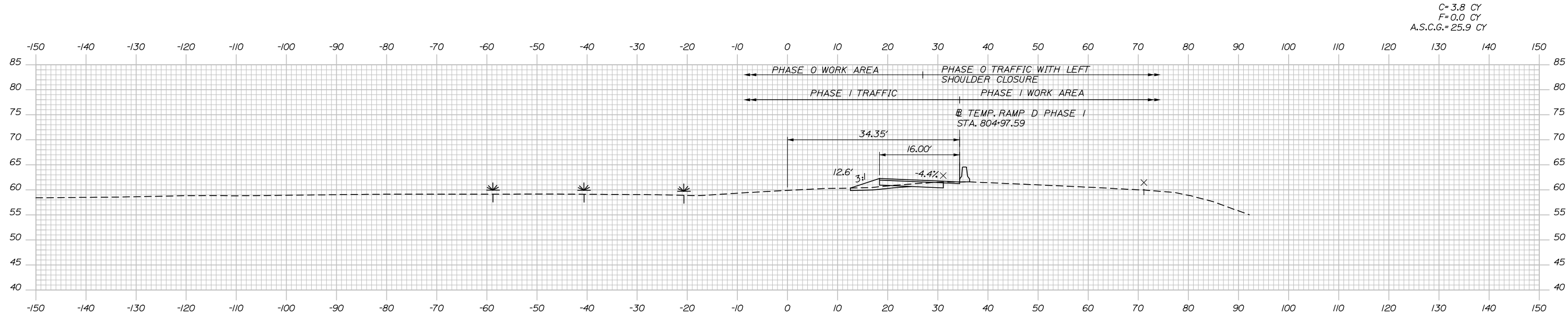
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

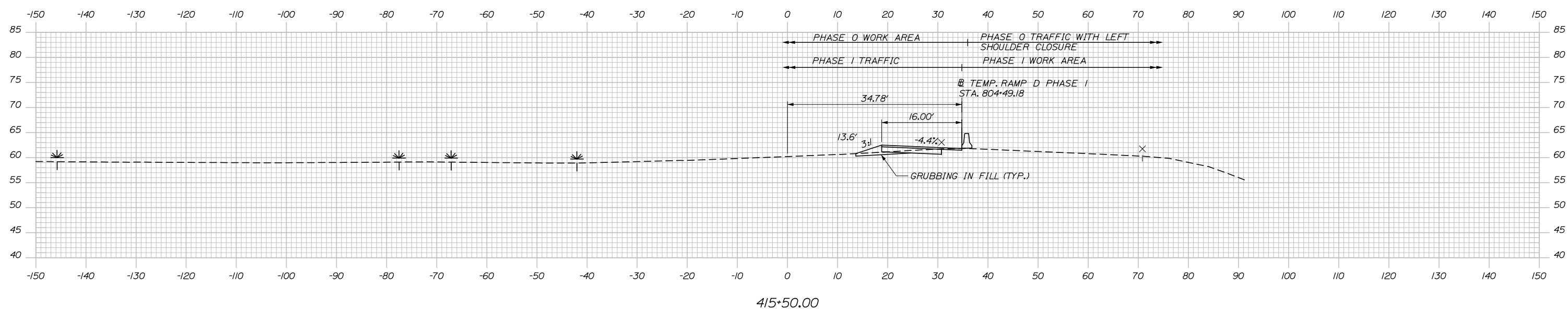
SHEET NUMBER: MT-16

25 OF 173

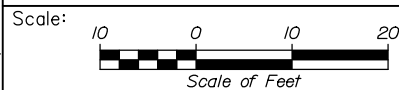
Date: 7/26/2019



416+00.00



415+50.00



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EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			RAL

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

CONTRACT: 2019.13

SHEET NUMBER: MT-17

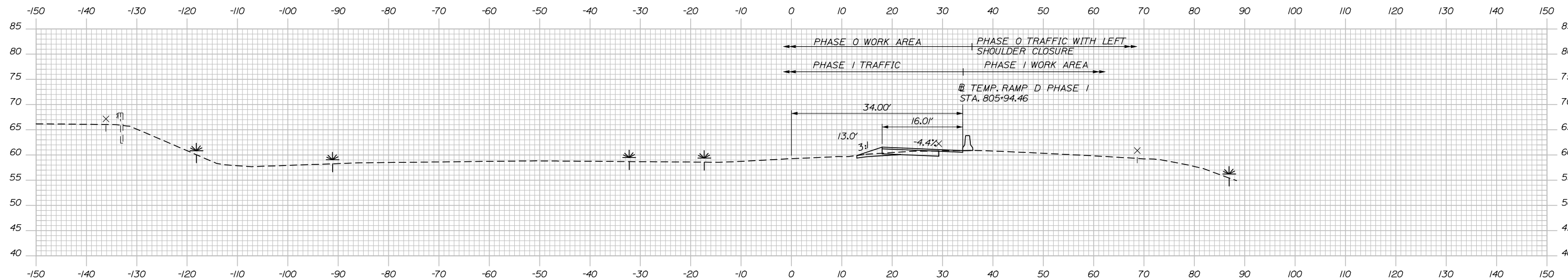
26 OF 173

Filename: Xsect - Ramp D MOT Ph 1.dgn

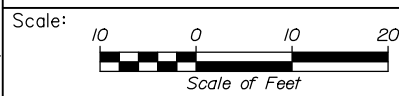
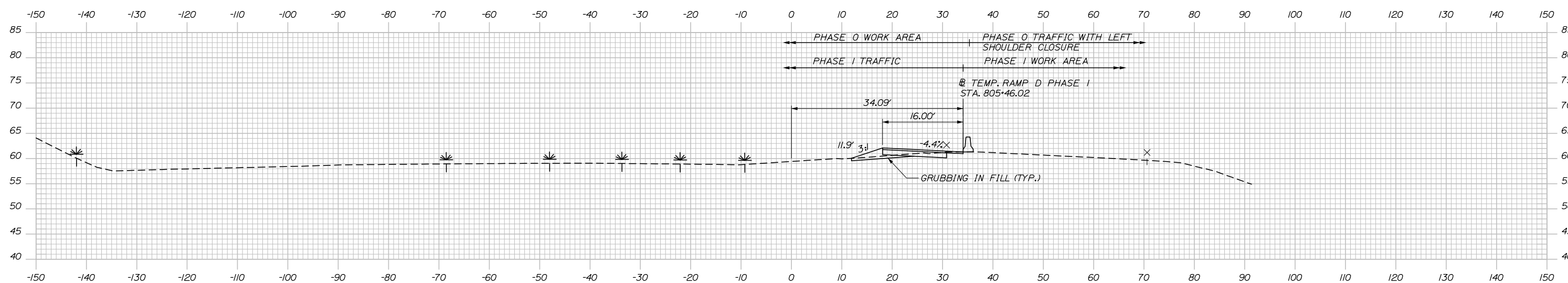
Date: 7/26/2019

Filename: Xsect - Ramp D MOT Ph 1.dgn

C= 3.1 CY  
F= 0.0 CY  
A.S.C.G.= 15.5 CY



C= 4.0 CY  
F= 0.0 CY  
A.S.C.G.= 21.4 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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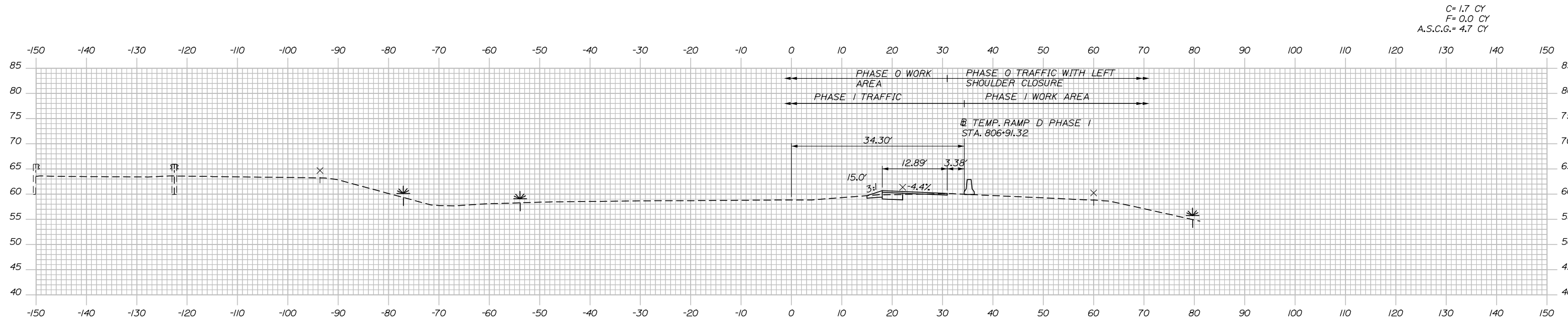
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 1**

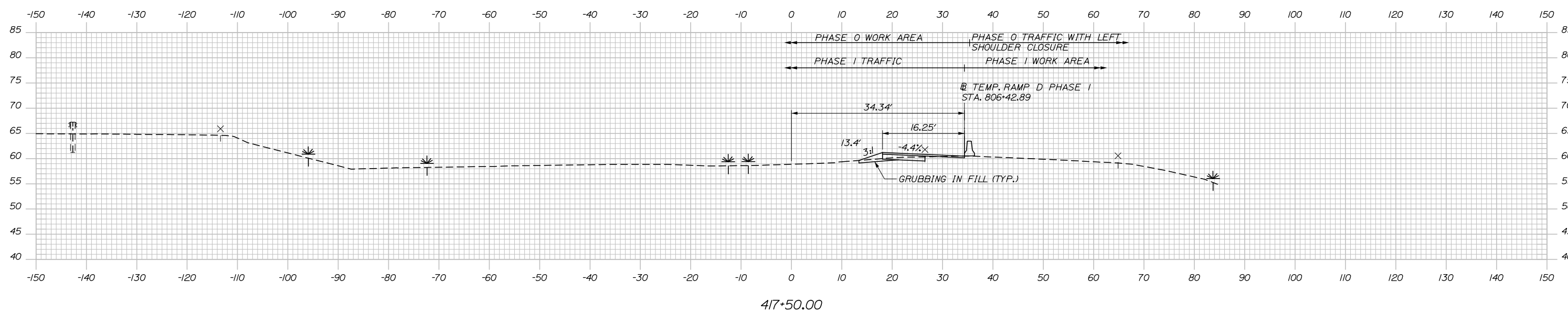
SHEET NUMBER: MT-18  
CONTRACT: 2019.13  
27 OF 173

Date: 7/26/2019

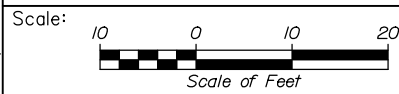
Filename: Xsect - Ramp D MOT Ph 1.dgn



418+00.00



417+50.00



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EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			JRH 07\19
			RAL 07\19

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

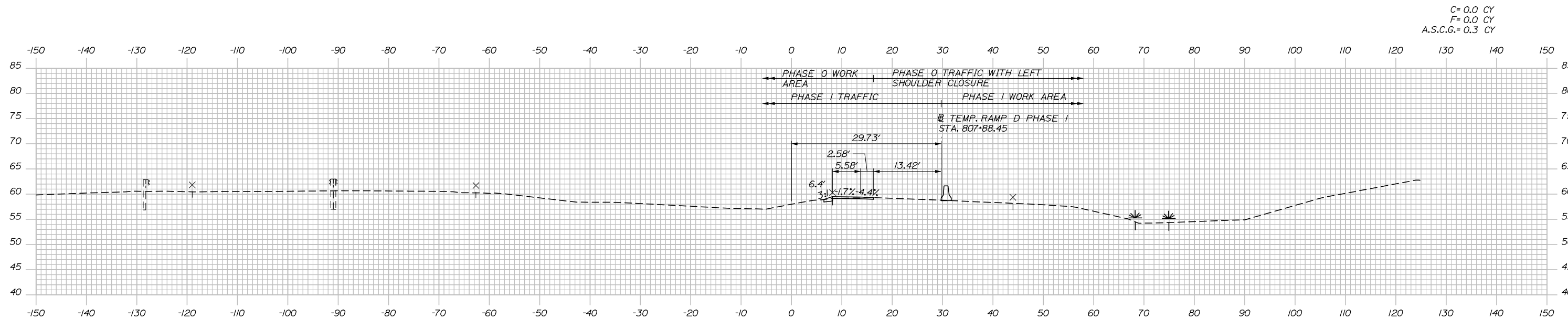
CONTRACT: 2019.13

SHEET NUMBER: MT-19

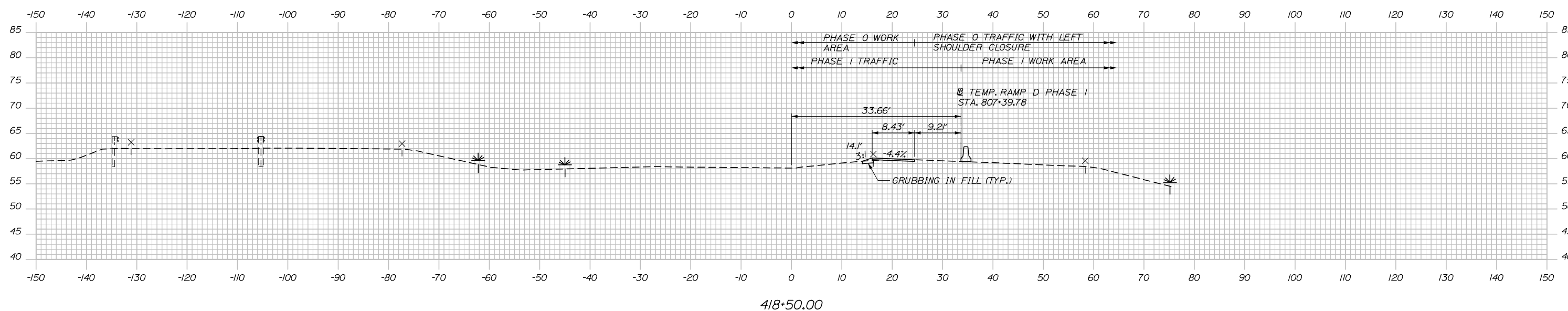
28 OF 173

Date: 7/26/2019

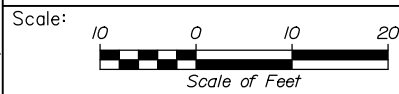
Filename: Xsect - Ramp D MOT Ph 1.dgn



419+00.00



418+50.00



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EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			RAL

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

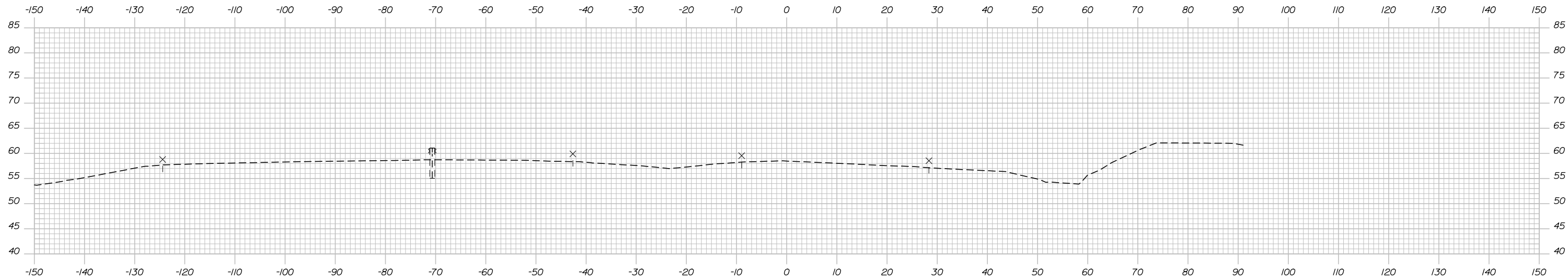
CONTRACT: 2019.13

SHEET NUMBER: MT-20

29 OF 173

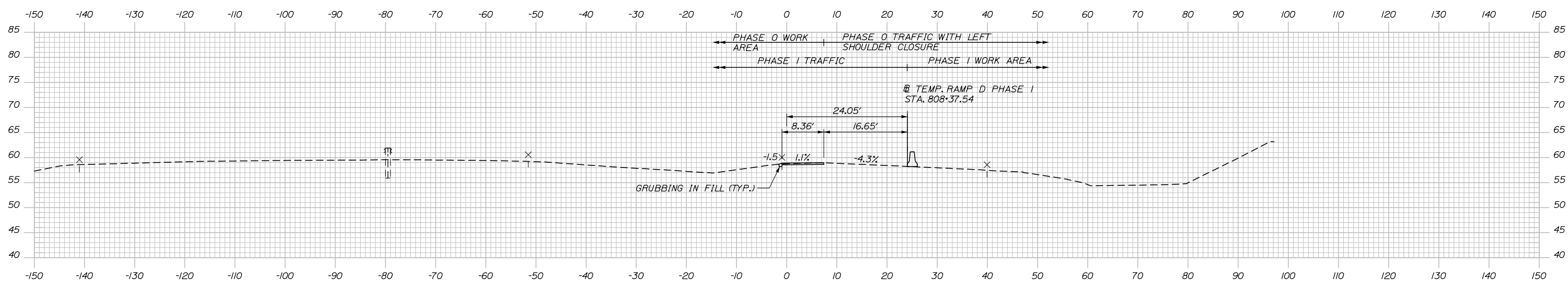
Date: 7/26/2019

Filename: Xsect - Ramp D MOT Ph 1.dgn

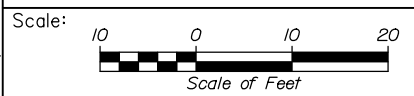


420+00.00

C= 0.0 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY



419+50.00



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THE GOLD STAR  
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EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			JRH 07\19
			RAL 07\19

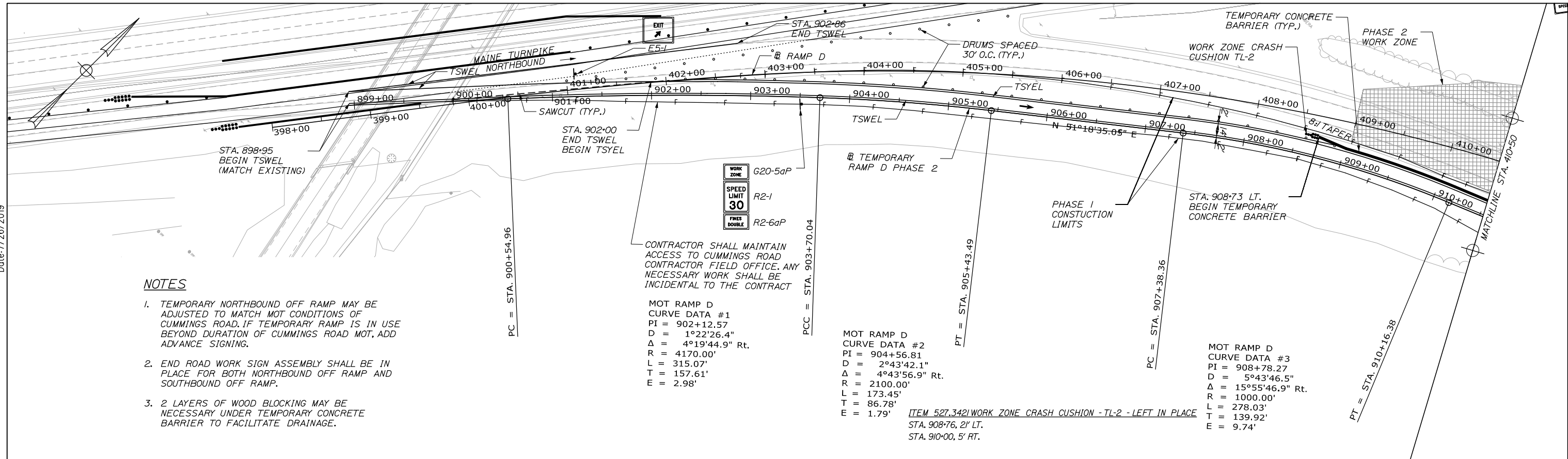
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: MT-21

30 OF 173

Date: 7/26/2019



**NOTES**

1. TEMPORARY NORTHBOUND OFF RAMP MAY BE ADJUSTED TO MATCH MOT CONDITIONS OF CUMMINGS ROAD. IF TEMPORARY RAMP IS IN USE BEYOND DURATION OF CUMMINGS ROAD MOT, ADD ADVANCE SIGNING.
2. END ROAD WORK SIGN ASSEMBLY SHALL BE IN PLACE FOR BOTH NORTHBOUND OFF RAMP AND SOUTHBOUND OFF RAMP.
3. 2 LAYERS OF WOOD BLOCKING MAY BE NECESSARY UNDER TEMPORARY CONCRETE BARRIER TO FACILITATE DRAINAGE.

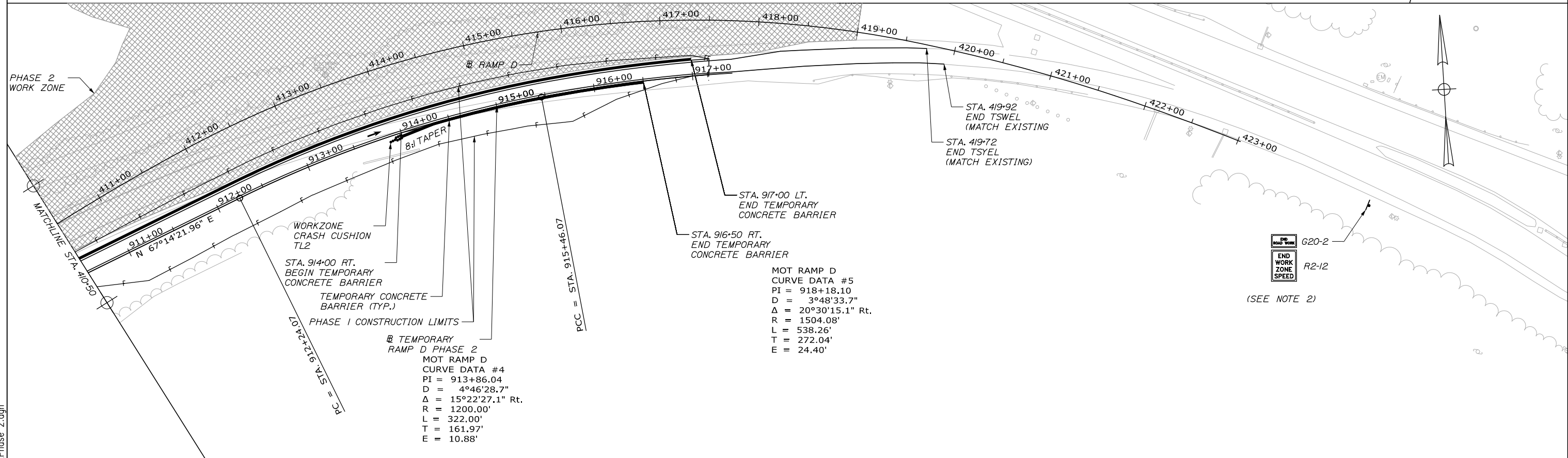
CONTRACTOR SHALL MAINTAIN ACCESS TO CUMMINGS ROAD CONTRACTOR FIELD OFFICE. ANY NECESSARY WORK SHALL BE INCIDENTAL TO THE CONTRACT

MOT RAMP D  
 CURVE DATA #1  
 PI = 902+12.57  
 D = 1°22'26.4"  
 Δ = 4°19'44.9" Rt.  
 R = 4170.00'  
 L = 315.07'  
 T = 157.61'  
 E = 2.98'

MOT RAMP D  
 CURVE DATA #2  
 PI = 904+56.81  
 D = 2°43'42.1"  
 Δ = 4°43'56.9" Rt.  
 R = 2100.00'  
 L = 173.45'  
 T = 86.78'  
 E = 1.79'

MOT RAMP D  
 CURVE DATA #3  
 PI = 908+78.27  
 D = 5°43'46.5"  
 Δ = 15°55'46.9" Rt.  
 R = 1000.00'  
 L = 278.03'  
 T = 139.92'  
 E = 9.74'

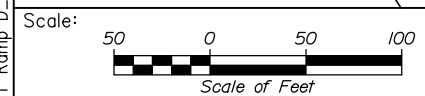
ITEM 527.342 WORK ZONE CRASH CUSHION - TL-2 - LEFT IN PLACE  
 STA. 908-76, 2' LT.  
 STA. 910-00, 5' RT.



MOT RAMP D  
 CURVE DATA #5  
 PI = 918+18.10  
 D = 3°48'33.7"  
 Δ = 20°30'15.1" Rt.  
 R = 1504.08'  
 L = 538.26'  
 T = 272.04'  
 E = 24.40'

WORKZONE CRASH CUSHION TL2  
 STA. 914-00 RT. BEGIN TEMPORARY CONCRETE BARRIER  
 TEMPORARY CONCRETE BARRIER (TYP.)  
 PHASE 1 CONSTRUCTION LIMITS  
 @ TEMPORARY RAMP D PHASE 2  
 MOT RAMP D  
 CURVE DATA #4  
 PI = 913+86.04  
 D = 4°46'28.7"  
 Δ = 15°22'27.1" Rt.  
 R = 1200.00'  
 L = 322.00'  
 T = 161.97'  
 E = 10.88'

END WORK ZONE SPEED  
 R2-12  
 (SEE NOTE 2)



No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD MAINTENANCE OF TRAFFIC RAMP D PLAN - PHASE 2**

SHEET NUMBER: MT-22

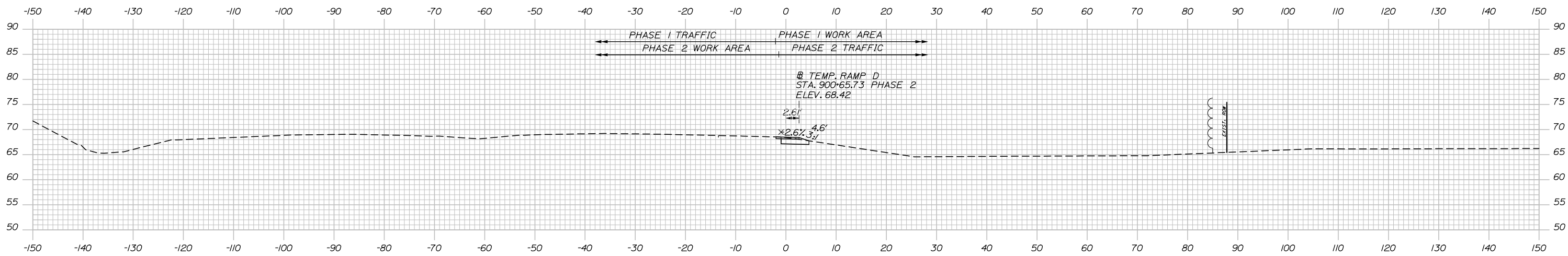
CONTRACT: 2019.13

31 OF 173

Filename: 0XX\_MOT\_Ramp\_D\_Phase 2.dgn

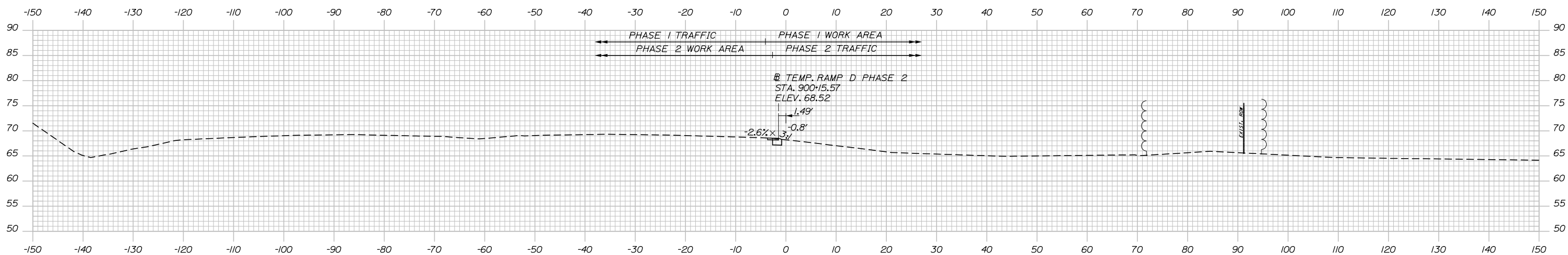
Date: 7/26/2019

C= 6.6 CY  
F= 0.0 CY  
A.S.C.G.= 8.1 CY

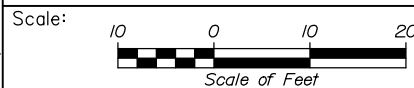


400+50.00

C= 4.1 CY  
F= 0.0 CY  
A.S.C.G.= 4.5 CY



400+00.00



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THE GOLD STAR  
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EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

SHEET NUMBER: MT-23

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			RAL
			07\19

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

CONTRACT: 2019.13

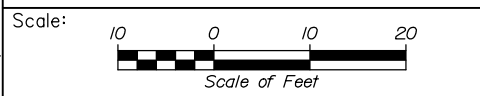
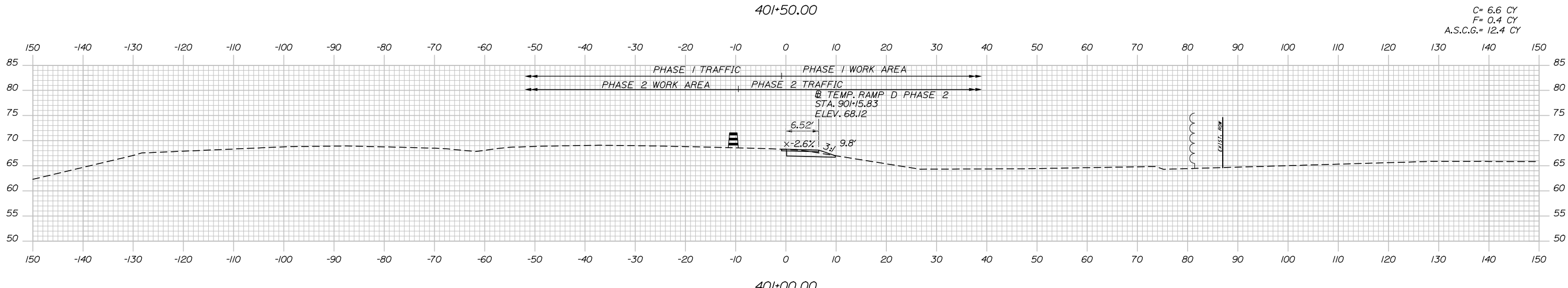
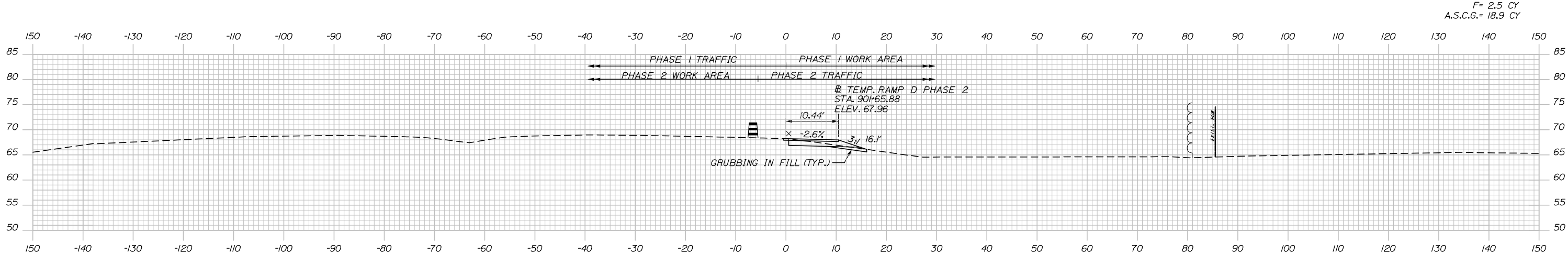
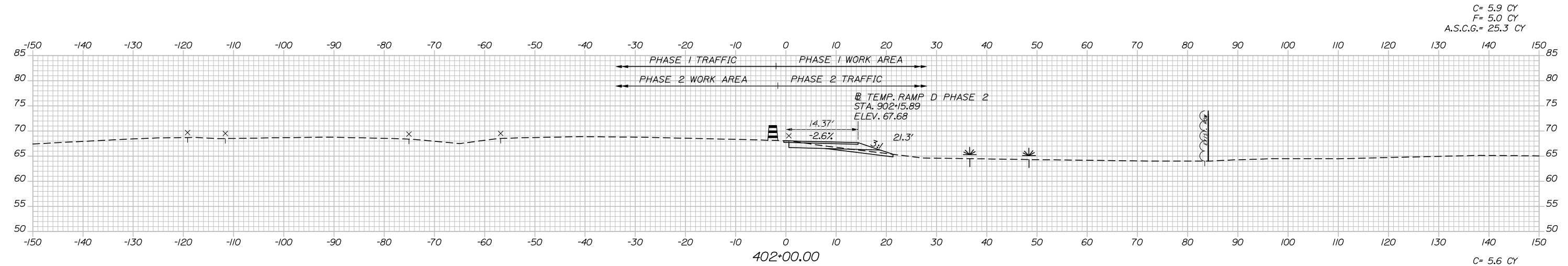
32 OF 173

Filename: Xsect - Ramp D MOT Ph 2.dgn



Date: 7/26/2019

Filename: Xsect - Ramp D MOT Ph 2.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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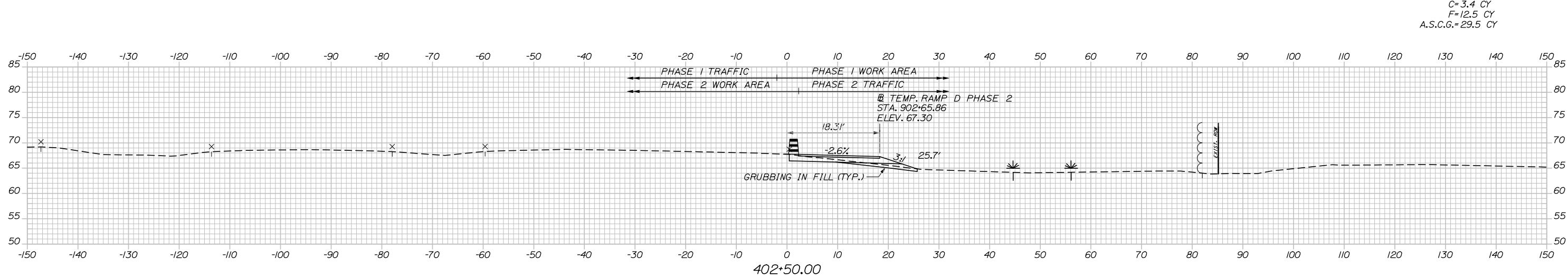
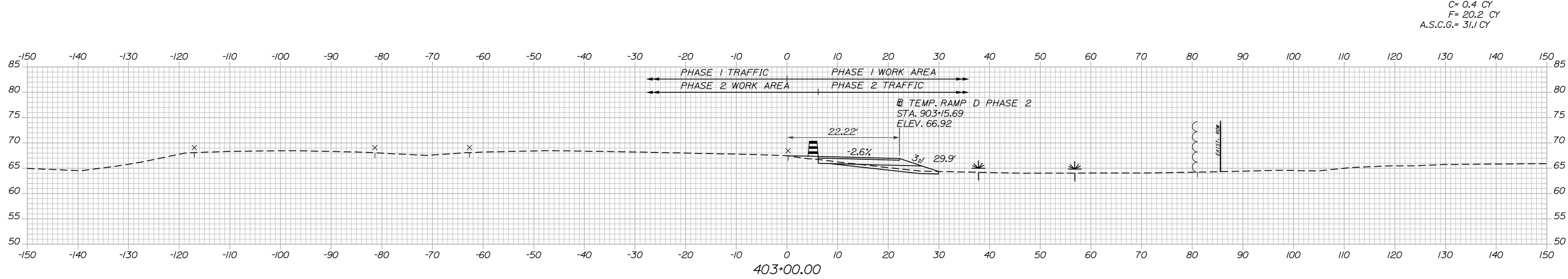
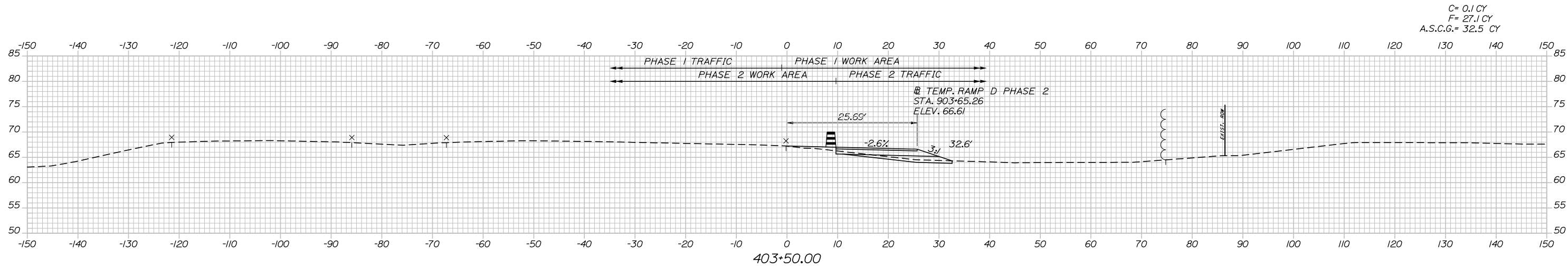
**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

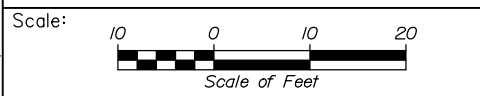
**EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-24  
CONTRACT: 2019.13  
33 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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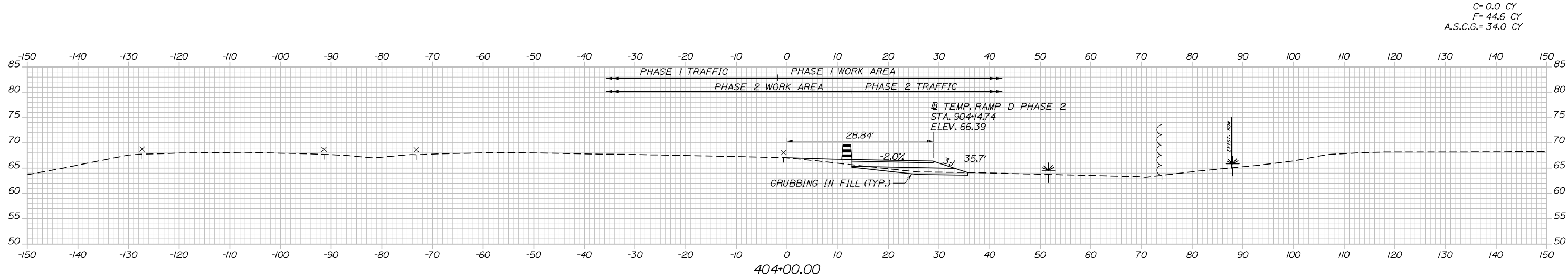
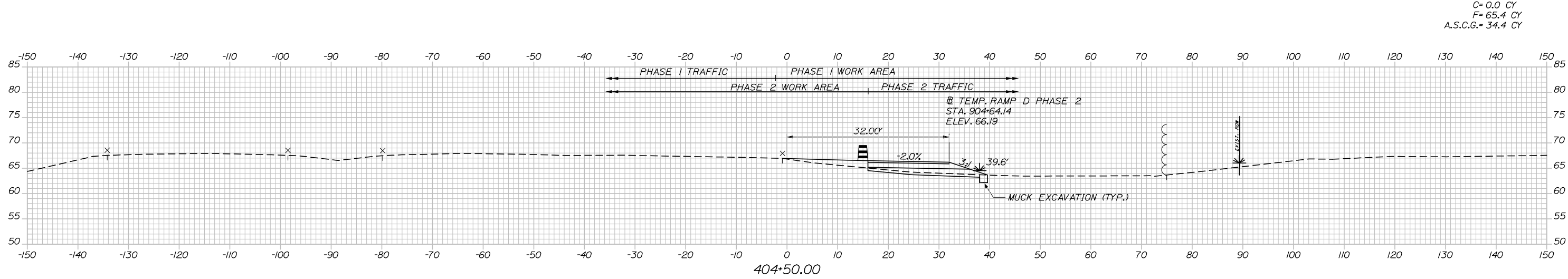
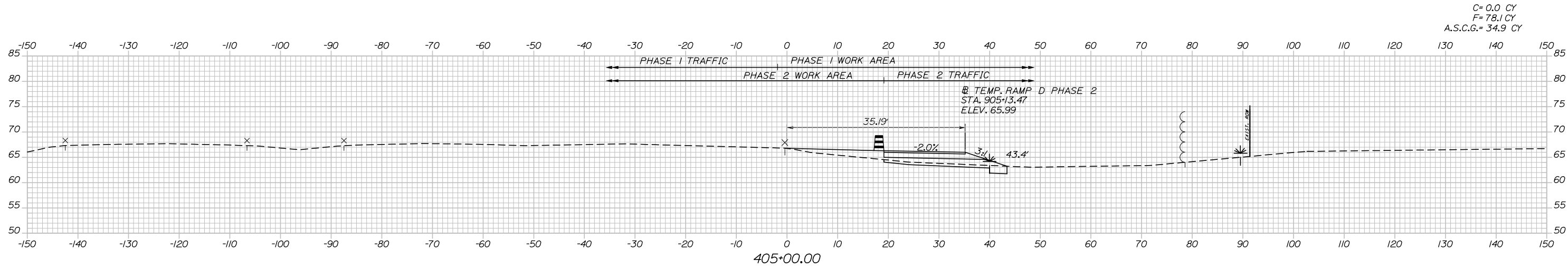
**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

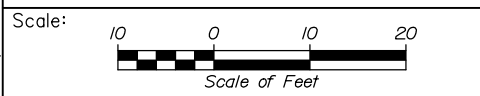
**EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-25  
CONTRACT: 2019.13  
34 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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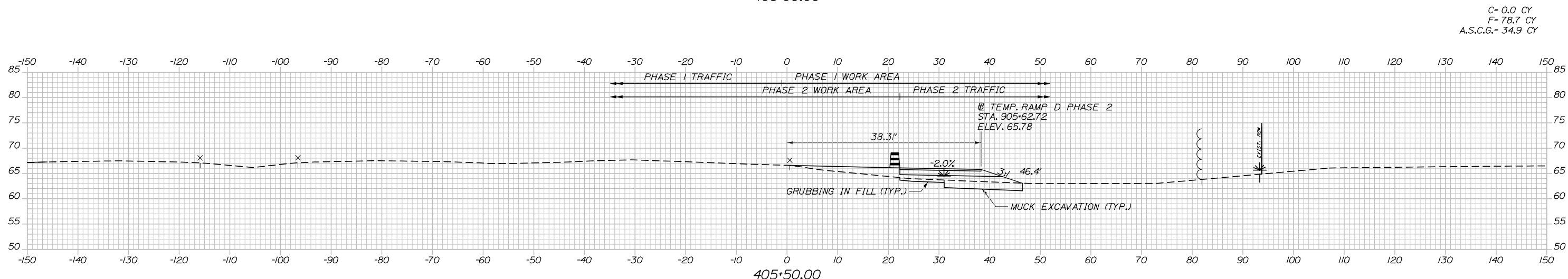
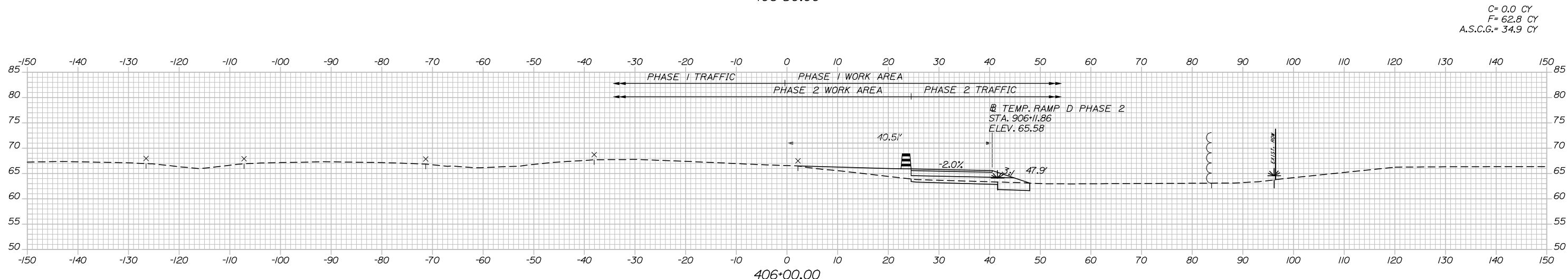
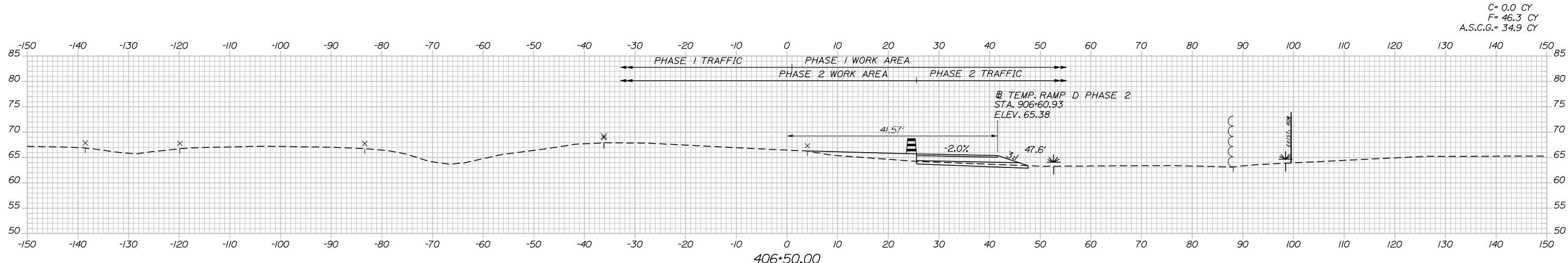
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

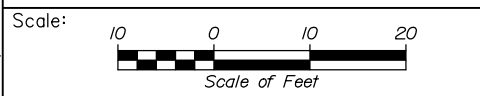
**EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-26  
 CONTRACT: 2019.13  
 35 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

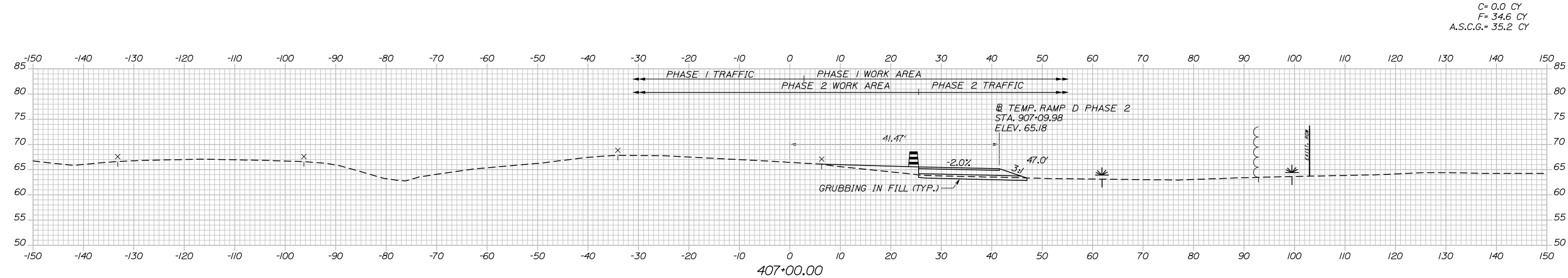
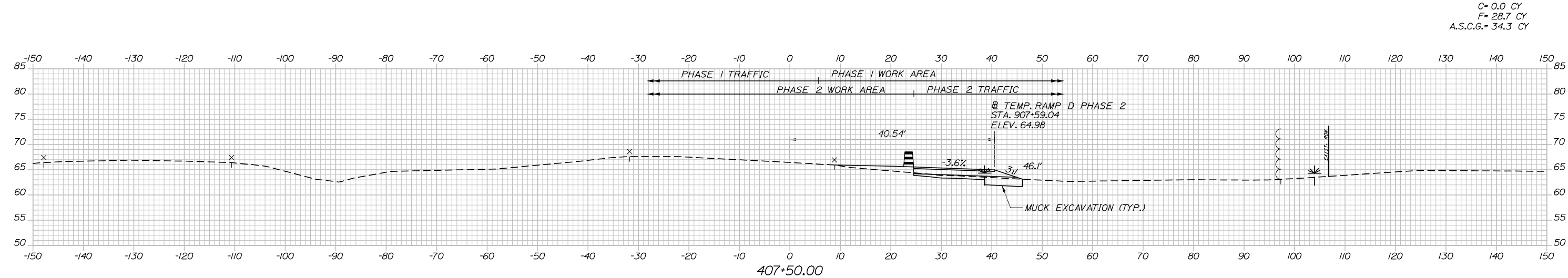
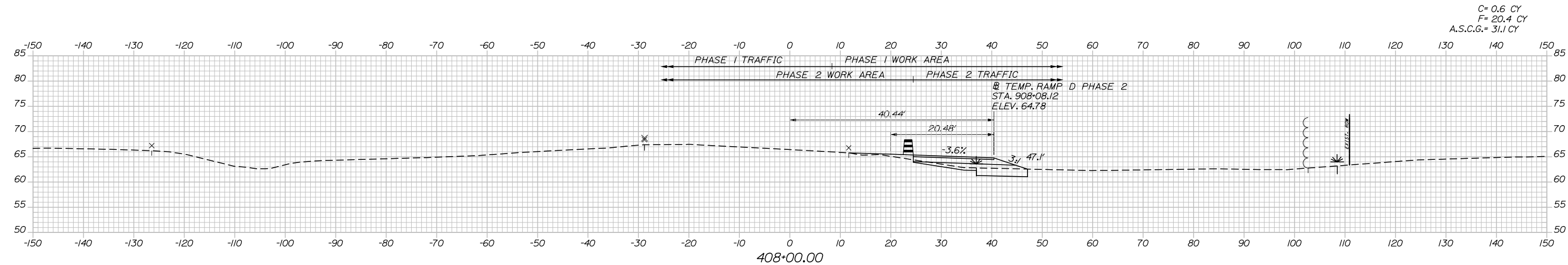
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-27  
 CONTRACT: 2019.13  
 36 OF 173

Date: 7/26/2019

Filename: Xsect - Ramp D MOT Ph 2.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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Drawn	AJS	07\19	In Charge of	RAL	07\19

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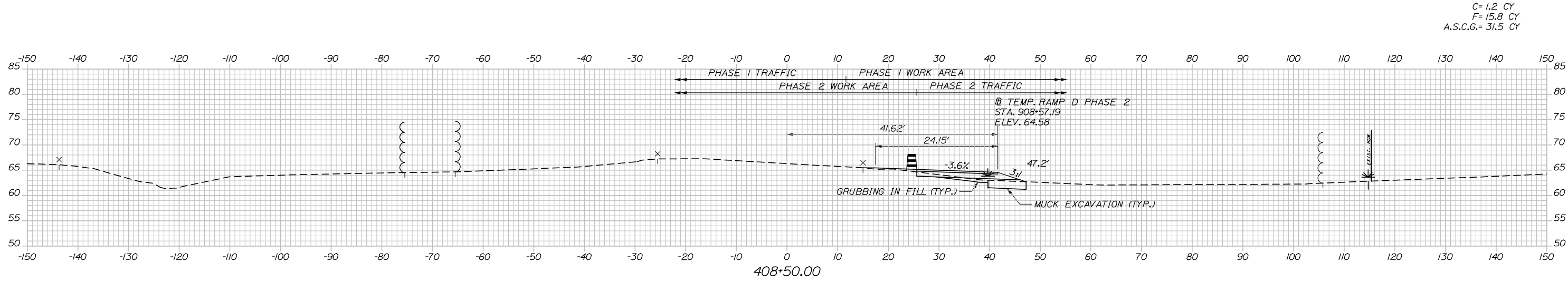
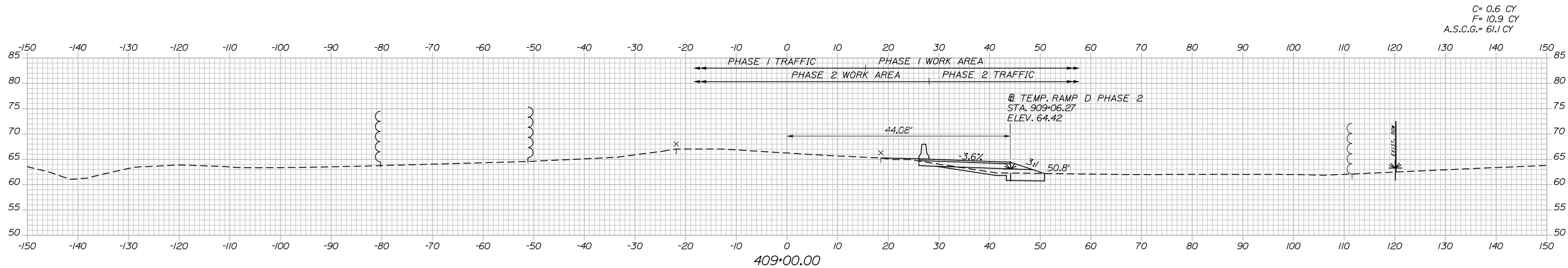
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

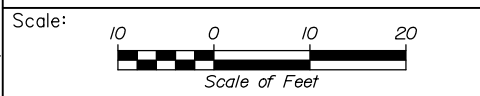
**EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-28  
 CONTRACT: 2019.13  
 37 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
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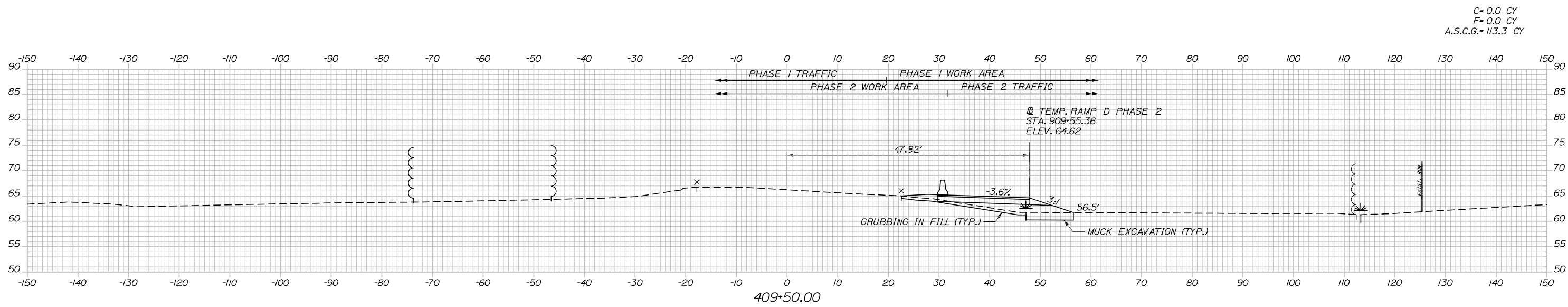
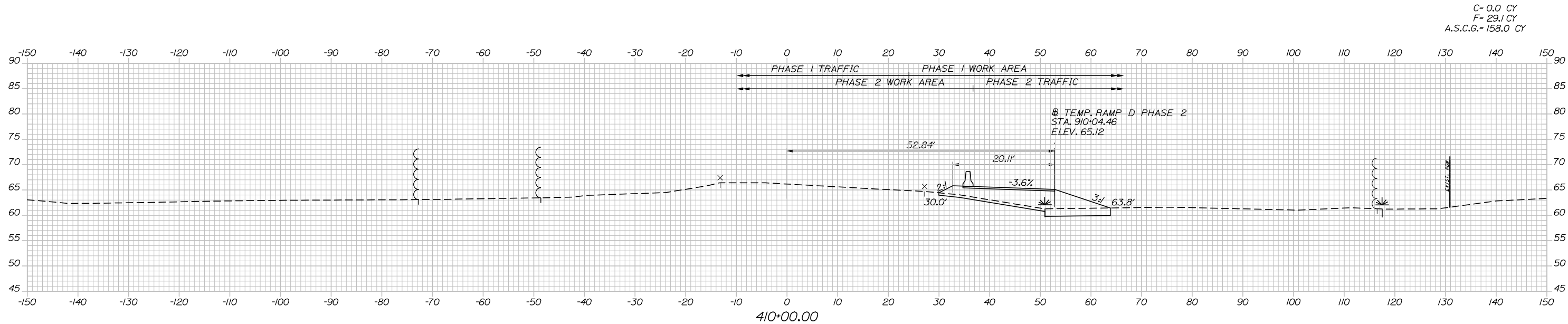
THE GOLD STAR  
MEMORIAL HIGHWAY

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

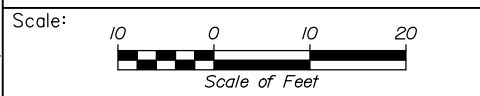
EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

SHEET NUMBER: MT-29  
CONTRACT: 2019.13  
38 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn




Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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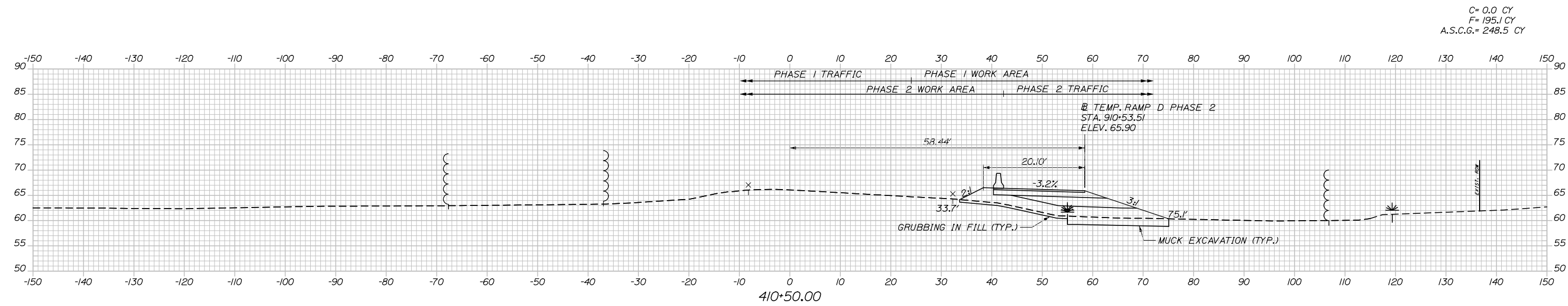
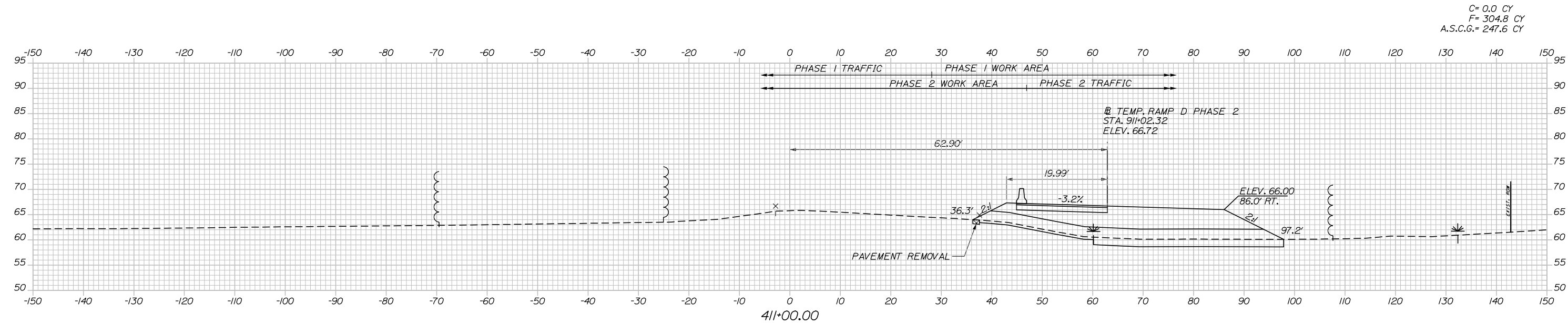
  
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

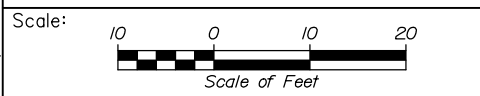
**EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-30  
 CONTRACT: 2019.13  
 39 OF 173

Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

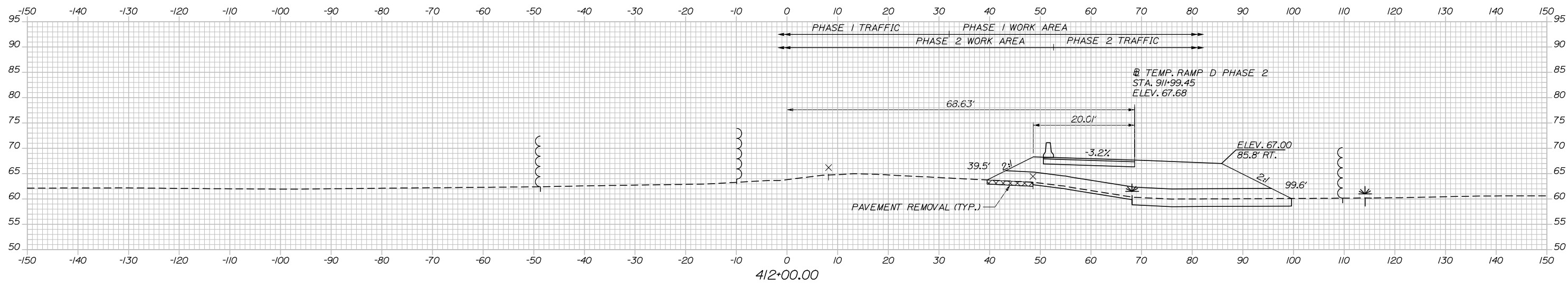
**EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-31  
 CONTRACT: 2019.13  
 40 OF 173

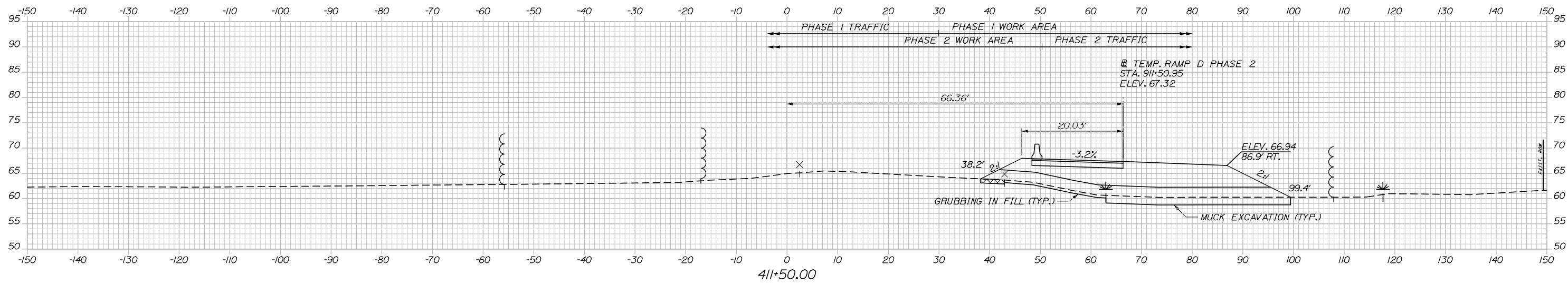


Date: 7/26/2019

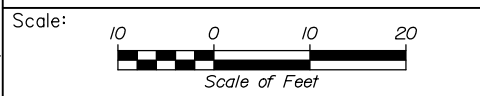
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F= 338.8 CY  
A.S.C.G.= 242.9 CY



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A.S.C.G.= 244.7 CY



Filename: Xsect - Ramp D MOT Ph 2.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
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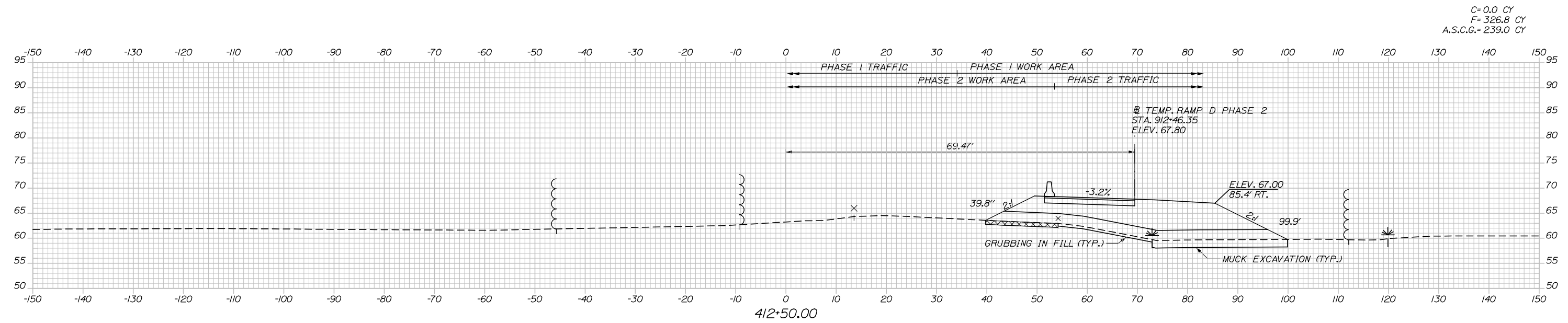
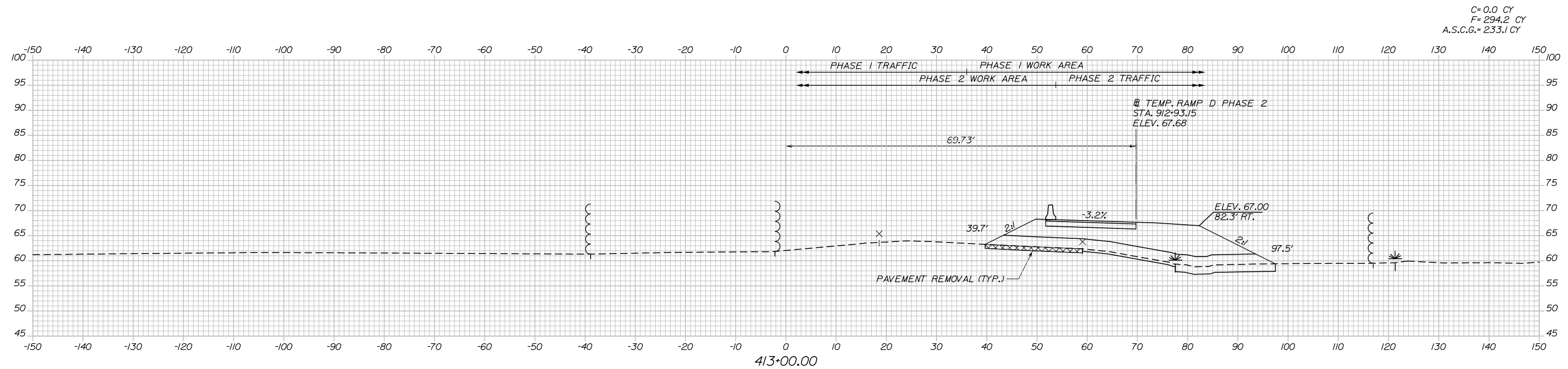
  
**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

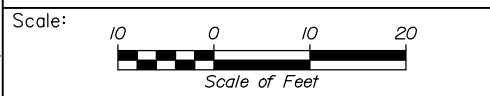
**EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-32  
CONTRACT: 2019.13  
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Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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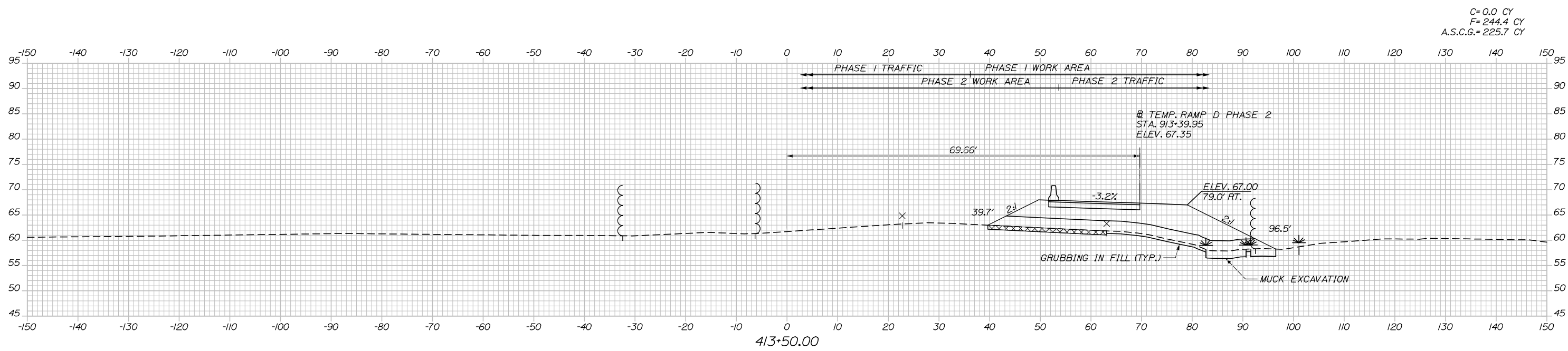
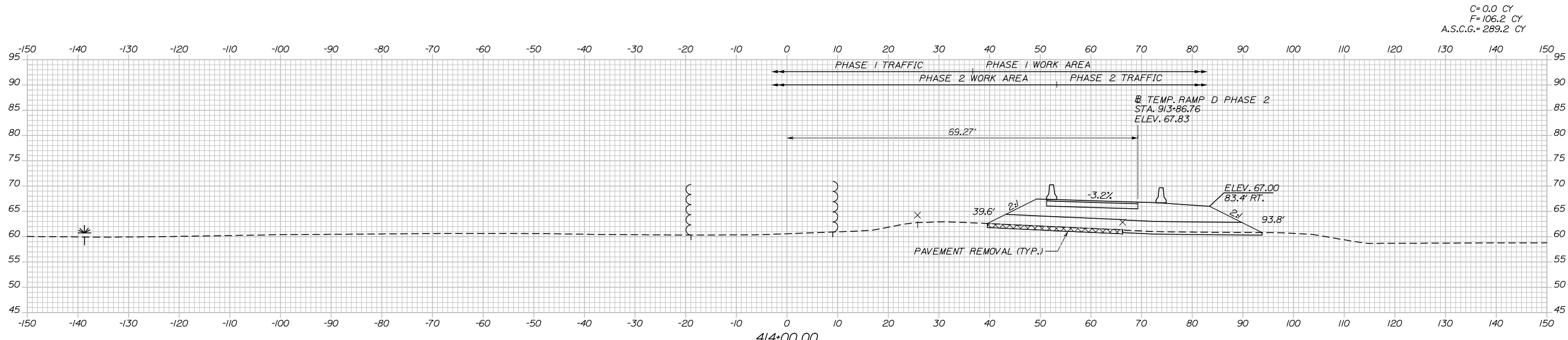
THE GOLD STAR  
MEMORIAL HIGHWAY

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

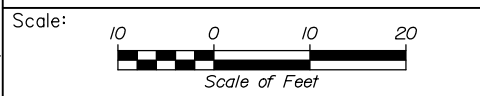
EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

SHEET NUMBER: MT-33  
CONTRACT: 2019.13  
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Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



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THE GOLD STAR  
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EXIT 45  
 INTERCHANGE RECONFIGURATION  
 MAINTENANCE OF TRAFFIC  
 CROSS SECTIONS - RAMP D PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

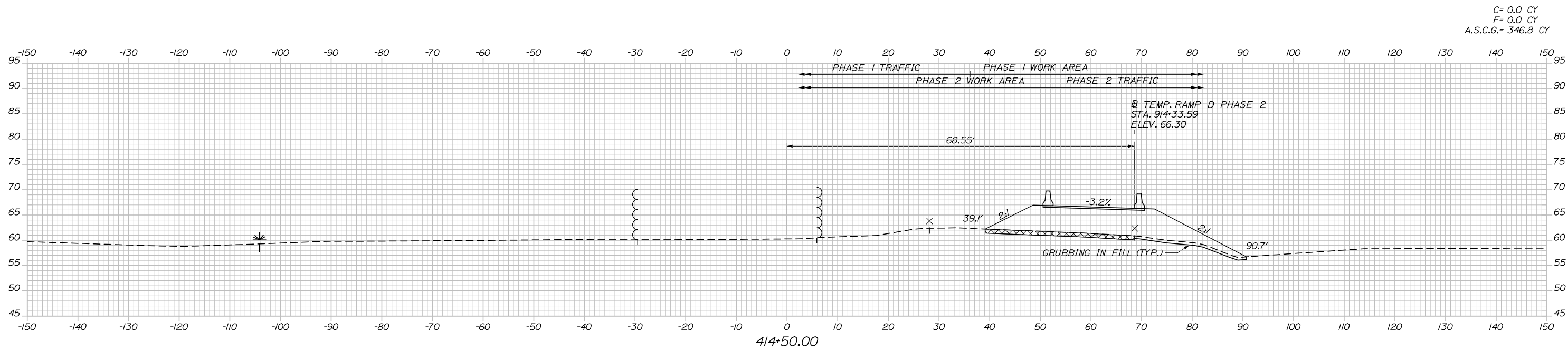
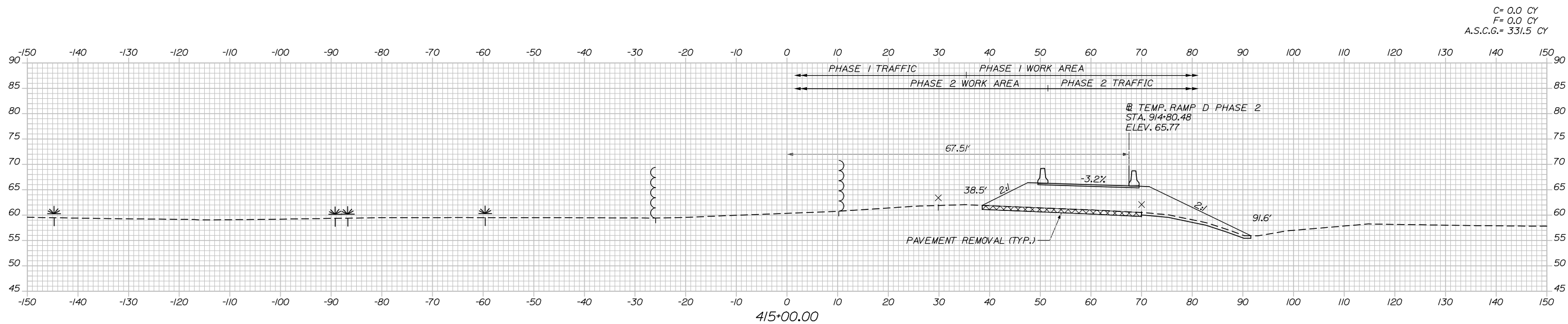
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

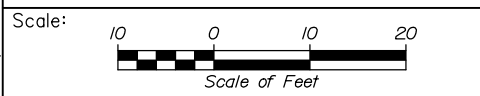
SHEET NUMBER: MT-34

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Date: 7/26/2019



Filename: Xsect - Ramp D MOT Ph 2.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	CAH	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

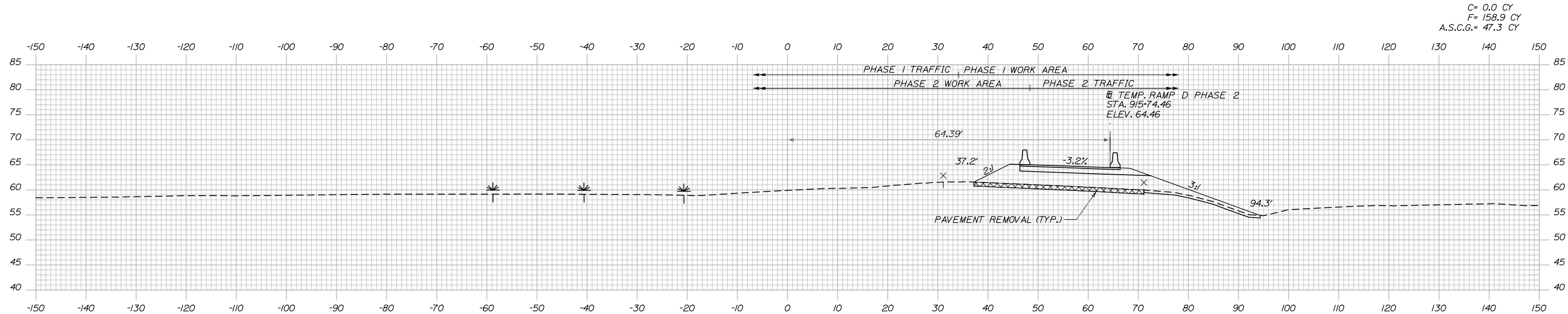
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

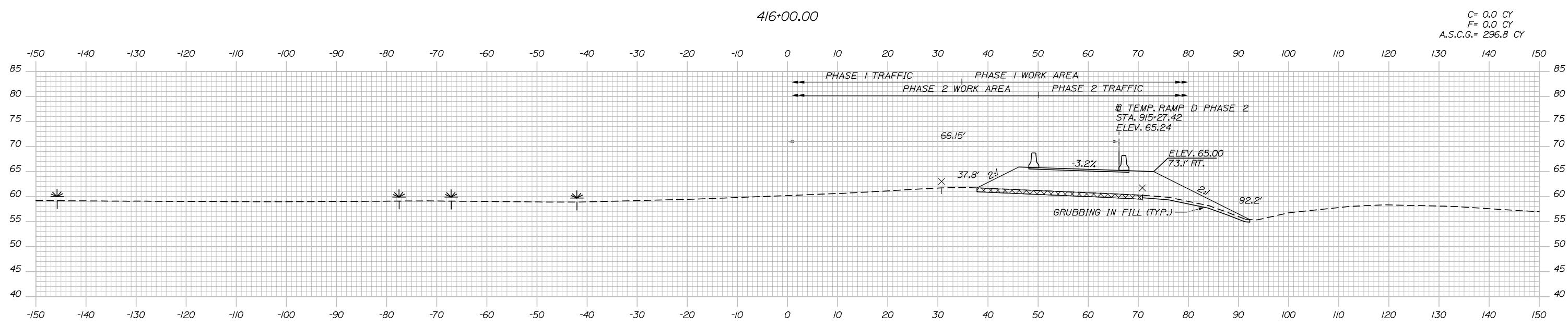
SHEET NUMBER: MT-35  
CONTRACT: 2019.13  
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Date: 7/26/2019

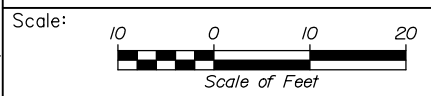
Filename: Xsect - Ramp D MOT Ph 2.dgn



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F= 158.9 CY  
A.S.C.G.= 47.3 CY



C= 0.0 CY  
F= 0.0 CY  
A.S.C.G.= 296.8 CY



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EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By CAH	Date 07\19	Checked
Drawn	By AJS	Date 07\19	In Charge of
			By JRH
			Date 07\19
			By RAL
			Date 07\19

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

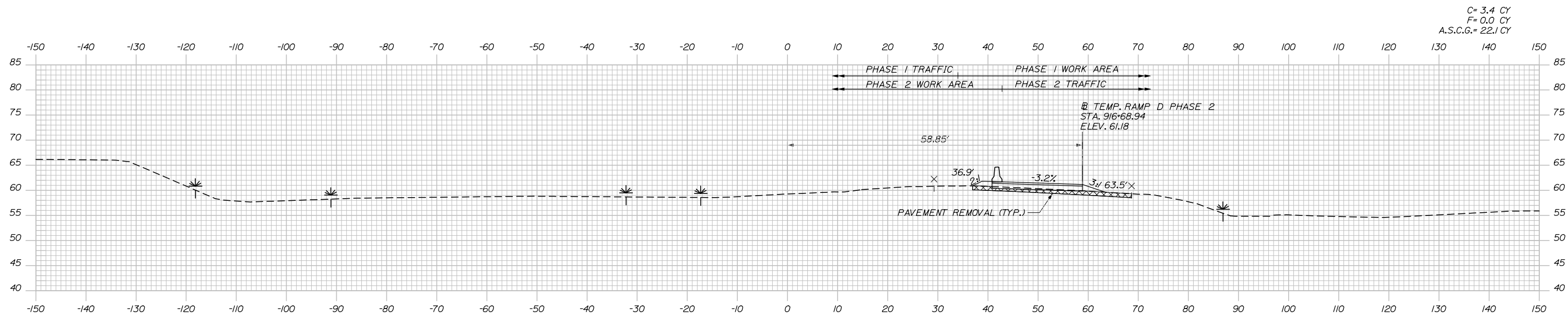
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SHEET NUMBER: MT-36

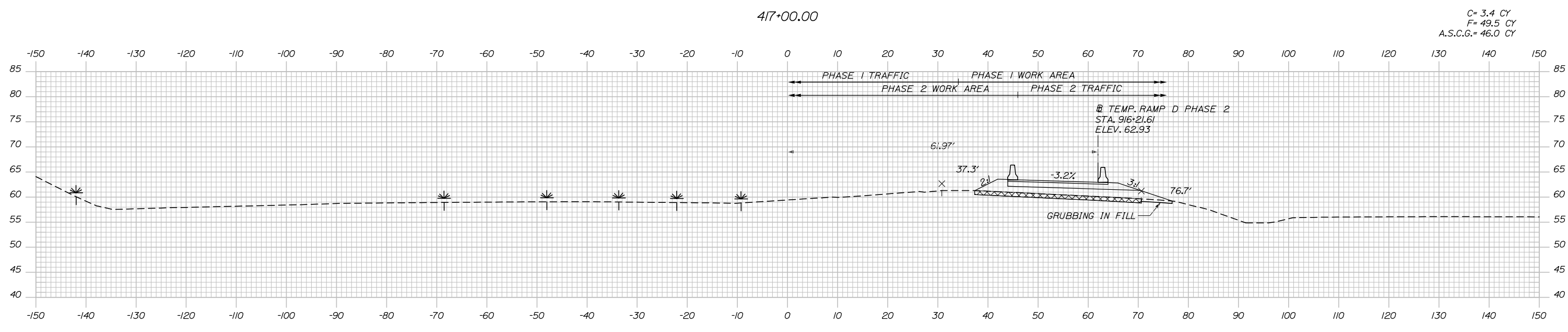
45 OF 173

Date: 7/26/2019

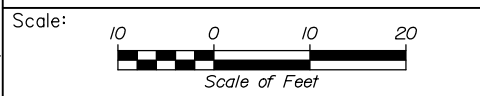
Filename: Xsect - Ramp D MOT Ph 2.dgn



417+00.00



416+50.00



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

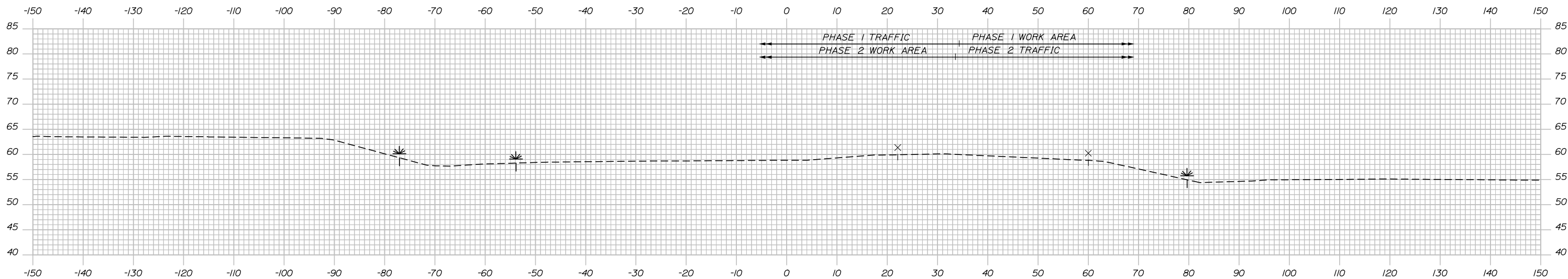
**EXIT 45 INTERCHANGE RECONFIGURATION**  
**MAINTENANCE OF TRAFFIC**  
**CROSS SECTIONS - RAMP D PHASE 2**

SHEET NUMBER: MT-37

CONTRACT: 2019.13

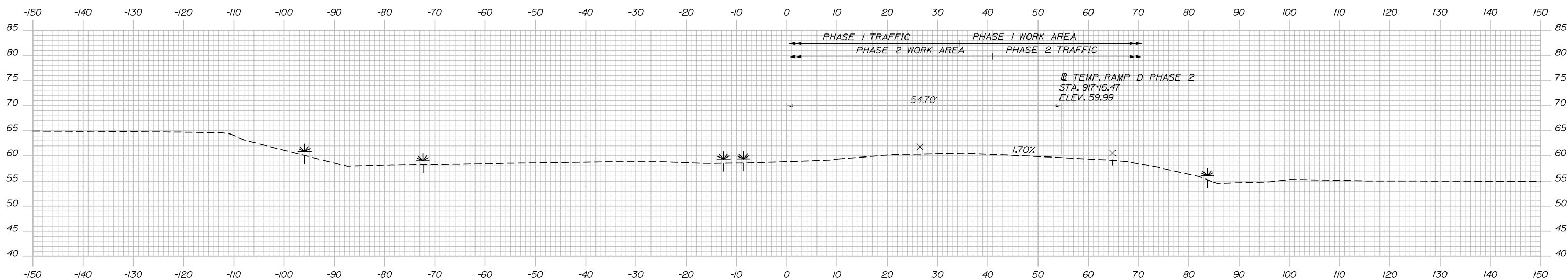
46 OF 173

Date: 7/26/2019



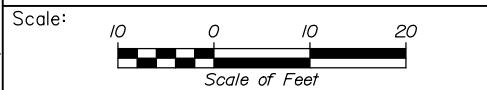
418+00.00

C=0.0 CY  
F=0.0 CY  
A.S.C.G.=0.0 CY



417+50.00

Filename: Xsect - Ramp D MOT Ph 2.dgn



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THE GOLD STAR  
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EXIT 45  
INTERCHANGE RECONFIGURATION  
MAINTENANCE OF TRAFFIC  
CROSS SECTIONS - RAMP D PHASE 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By CAH	Date 07\19	Checked	By JRH	Date 07\19
Drawn	By AJS	Date 07\19	In Charge of	By RAL	Date 07\19







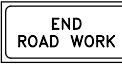
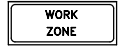





MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.











CONTRACT: 2019.13

SHEET NUMBER: MT-38

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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-3	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	ORANGE	BLACK	16.00 (64.0)
CS-4	48"	48"					2	ORANGE	BLACK	16.00 (32.0)
CS-10	48"	48"					3	ORANGE	BLACK	16.00 (48.0)
CS-11	48"	48"					4	ORANGE	BLACK	16.00 (64.0)
E5-2a	48"	36"					4	ORANGE	BLACK	12.00 (48.0)
E5-2	48"	36"					1	ORANGE	BLACK	12.00 (12.0)
G20-2	48"	24"					4	ORANGE	BLACK	8.00 (32.0)
G20-5aP	48"	24"		6" 6"	4.5"		2	ORANGE	BLACK	8.00 (16.0)
R2-1 (45)	48"	60"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			2	WHITE	BLACK	20.00 (40.0)
R2-6aP	48"	24"		6" 6"	4.5"		2	WHITE	BLACK	8.00 (16.0)
R2-12	48"	60"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			4	WHITE	BLACK	20.00 (80.0)
W3-4	48"	48"					4	ORANGE	BLACK	16.00 (64.0)
W3-5 (45)	48"	48"					4	ORANGE	BLACK	16.00 (64.0)

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	
W4-2 (LEFT) (RIGHT)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			6 6	ORANGE	BLACK	16.00 (96.0) (96.0)
W7-3aP	36"	30"					11	ORANGE	BLACK	7.50 (82.5)
W13-3 (30)	36"	48"					1	ORANGE	BLACK	12.00 (12.0)
W13-4P	30"	30"					2	ORANGE	BLACK	6.25 (12.5)
W20-1 (AHEAD) (1 MILE)	48"	48"					8 4	ORANGE	BLACK	16.00 (128.0) (64.0)
W20-5L (1/2 MILE) (LEFT) (RIGHT)	48"	48"					4 4	ORANGE	BLACK	16.00 (64.0) (64.0)
W21-5	48"	48"					10	ORANGE	BLACK	16.00 (160.0)
W21-5a (LEFT) (RIGHT)	48"	48"					5 7	ORANGE	BLACK	16.00 (80.0) (112.0)
W21-5b (LEFT) (RIGHT)	48"	48"					5 7	ORANGE	BLACK	16.00 (80.0) (112.0)
W24-1 (LEFT) (RIGHT)	48"	48"					3 2	ORANGE	BLACK	16.00 (48.0) (32.0)

Date: 7/26/2019

Filename: 00X\_MOT\_SignSummary\_01.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
 340 County Road, Suite 6-C  
 Westbrook, ME 04092  
 TEL (207) 774-5155  
 FAX (207) 228-0909



THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD  
MAINTENANCE OF TRAFFIC  
SIGN SUMMARY 1

SHEET NUMBER: MT-39

CONTRACT: 2019.13

48 OF 173



CONSTRUCTION SIGN SUMMARY - LEFT IN PLACE

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	
E5-1	72"	60"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			1	GREEN	WHITE	30.00 (30.0)
G20-2	48"	24"					4	ORANGE	BLACK	8.00 (32.0)
G20-5aP	48"	24"					5	ORANGE	BLACK	8.00 (40.0)
R2-1 (30) (25)	48"	60"					4 1	WHITE	BLACK	20.00 (80.0) (20.0)
R2-6aP	48"	24"		6" 6"	4.5"		5	WHITE	BLACK	8.00 (40.0)
R2-12	48"	60"		TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT			5	WHITE	BLACK	20.00 (100.0)
W1-4 (RIGHT)	48"	48"					1	ORANGE	BLACK	16.00 (16.0)
W5-4	48"	48"					4	ORANGE	BLACK	16.00 (64.0)
W13-4P	30"	30"					1	ORANGE	BLACK	6.25 (6.25)
W20-1 (AHEAD)	48"	48"					4	ORANGE	BLACK	16.00 (64.0)
W24-1 (LEFT)	48"	48"					2	ORANGE	BLACK	16.00 (32.0)

Date: 7/26/2019

Filename: 00X\_MOT\_SignSummary\_02.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
By	Date	By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19		
Drawn	AJS 07\19	In Charge of	RAL 07\19		

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

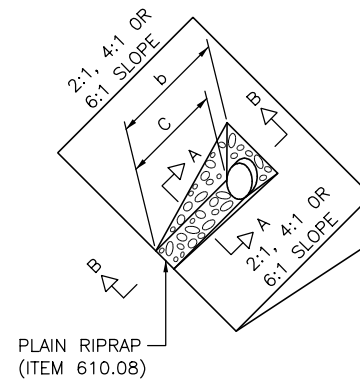
EXIT 45  
 EMBANKMENT PRELOAD  
 MAINTENANCE OF TRAFFIC  
 SIGN SUMMARY 2

SHEET NUMBER: MT-40  
 CONTRACT: 2019.13  
 49 OF 173

Date: 7/26/2019

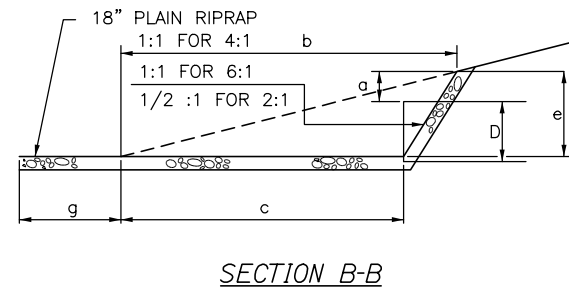
**DIMENSIONS FOR SLOPE OF 2:1**

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



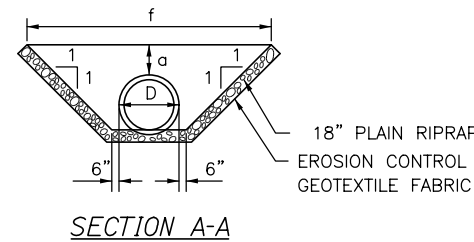
**DIMENSIONS FOR SLOPE OF 4:1**

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45



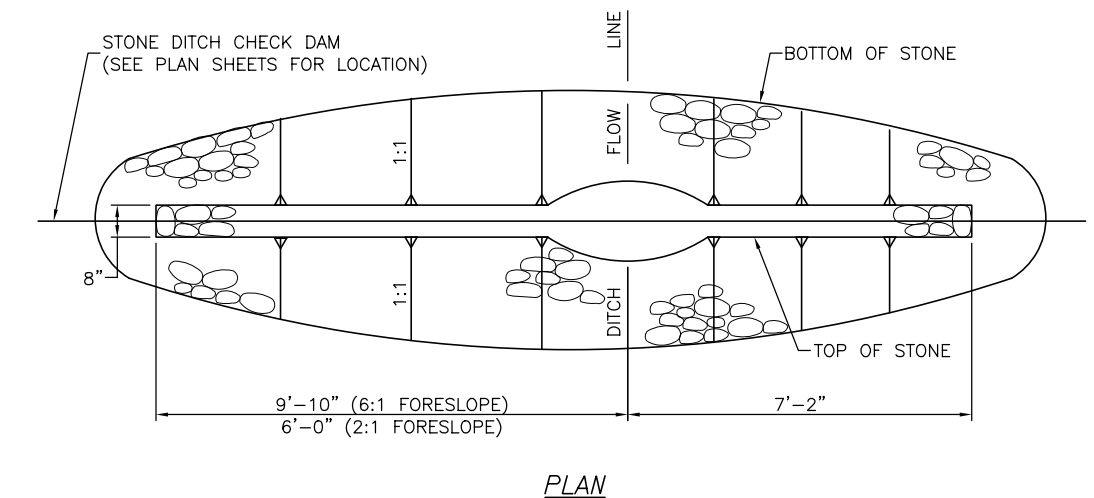
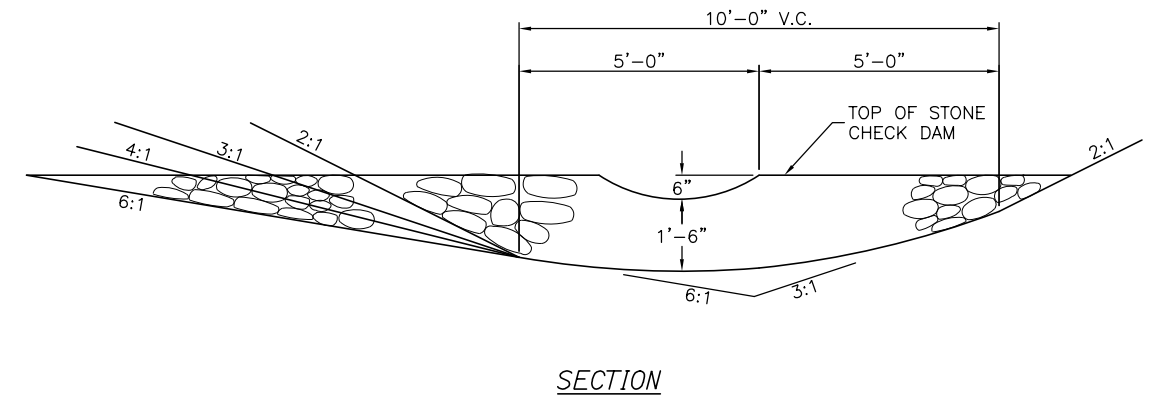
**DIMENSIONS FOR SLOPE OF 6:1**

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76



**ROADWAY CULVERT END SLOPE TREATMENT**

- NOTES:**
- THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
  - STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



**STONE CHECK DAM**  
1" = 2'-0"

FORESLOPE	BACKSLOPE	QUANTITY C.Y. STONE
6:1	3:1	2.5
4:1	3:1	2.5
3:1	3:1	2.0
2:1	3:1	2.0

- NOTES:**
- STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, STONE DITCH PROTECTION.
  - TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.181.

Filename: 000\_Erosion Control Detail01.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD**

MISCELLANEOUS DETAILS (1 OF 4)

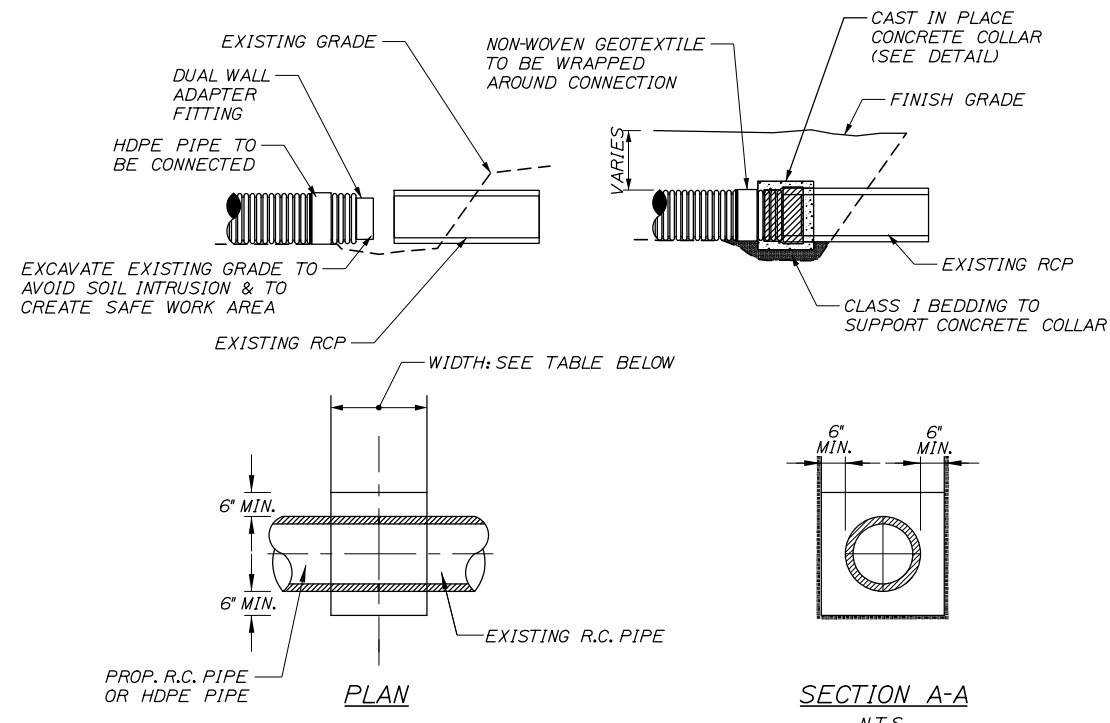
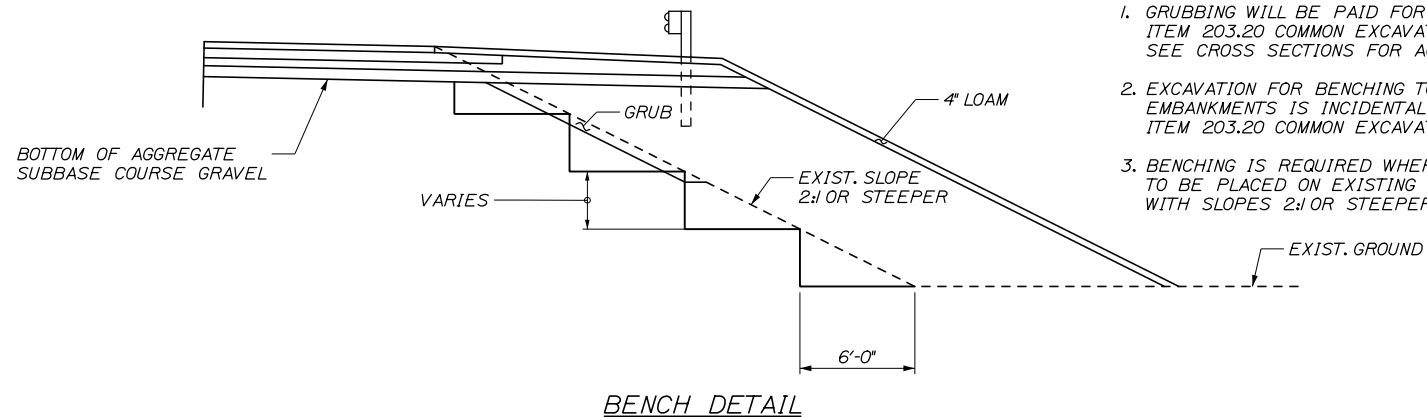
SHEET NUMBER: DT-01

CONTRACT: 2019.13

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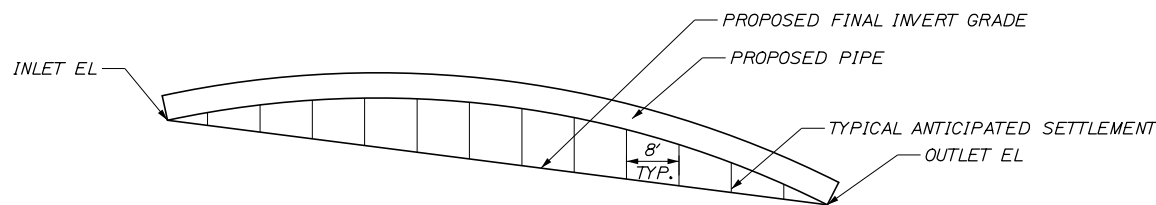
**NOTES:**

- GRUBBING WILL BE PAID FOR UNDER ITEM 203.20 COMMON EXCAVATION. SEE CROSS SECTIONS FOR ACTUAL LIMITS.
- EXCAVATION FOR BENCHING TO RECEIVE EMBANKMENTS IS INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.
- BENCHING IS REQUIRED WHERE FILL IS TO BE PLACED ON EXISTING EMBANKMENTS WITH SLOPES 2:1 OR STEEPER.



**NOTES:**

- CONNECTION AND PIPE TO BE BACKFILL PER ASTM D2321 (CRUSHED STONE)
- CONCRETE SHALL BE CLASS A FIBER REINFORCED.
- SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.



NOTE: OFFSETS ARE TAKEN ALONG PIPE CENTERLINE

PIPE STATION	CAMBER OFFSET ABOVE PIPE INVERT (IN.) AT DISTANCE FROM INLET (FT)																									
	INLET	8	16	24	32	40	48	56	64	72	76	80	88	96	104	110	112	120	128	136	144	152	156	160		
115+00.00	0.0	3.7	6.5	8.8	10.0	11.0	11.6	11.9	12.0	11.7		11.1	10.1	8.8	6.5		3.6	0.0								
116+30.85 (SKEWED)	0.0	2.7	3.3	3.9	4.5	4.9	5.3	5.6	5.8	6.0		6.0	5.9	5.8	5.5		5.2	4.7	4.2	3.6	2.9	2.0	0.0			
208+50.00	0.0	4.0	7.8	11.0	12.0	11.7	10.6	8.8	6.0	2.0	0.0															
304+25.00	0.0	4.0	7.8	10.3	11.3	11.8	12.0	12.0	11.7	11.1		10.3	9.2	6.5	4.0	0.0										
306+00.31 (SKEWED)	0.0	3.5	6.5	8.4	10.0	11.0	11.6	11.9	12.0	11.9		11.5	10.7	9.5	7.5		5.2	3.1	0.7	0.4	0.3	0.2				0.0

CAMBERED PIPE PLACEMENT

CONCRETE COLLAR WIDTH SCHEDULE	
PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48
54	60

CONCRETE COLLAR DETAIL

Date: 7/26/2019

Filename: 014\_Misc\_Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

HNTB CORPORATION  
 340 County Road, Suite 6-C  
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**MAINE TURNPIKE**

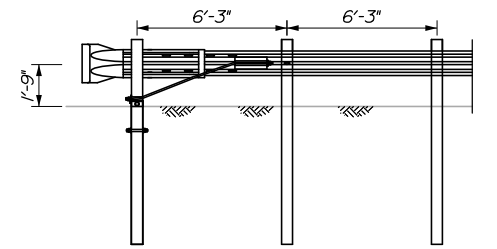
**THE GOLD STAR MEMORIAL HIGHWAY**

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

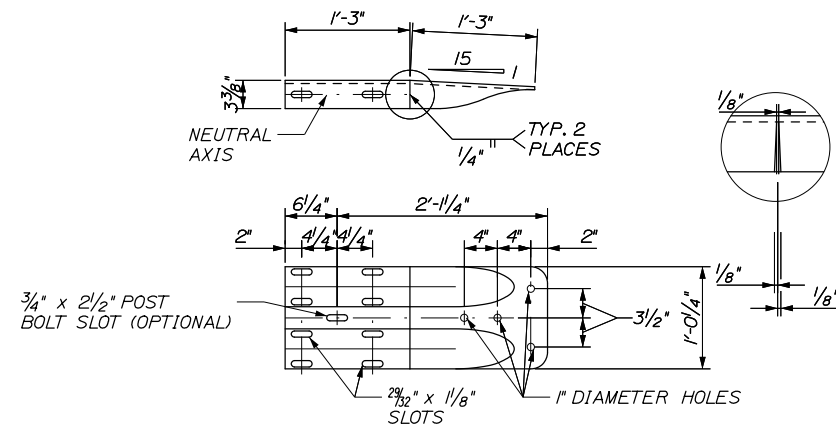
EXIT 45  
 EMBANKMENT PRELOAD  
 MISCELLANEOUS DETAILS (2 OF 4)

SHEET NUMBER: DT-02  
 CONTRACT: 2019.13  
 51 OF 173

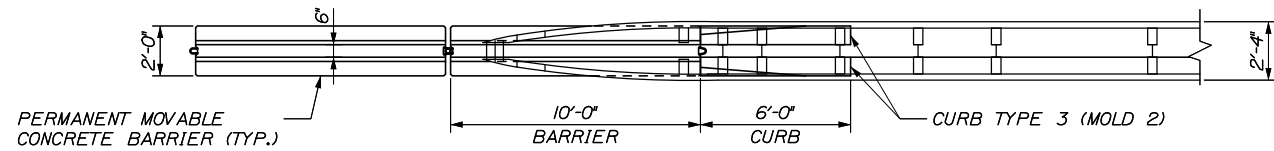
Date: 7/26/2019



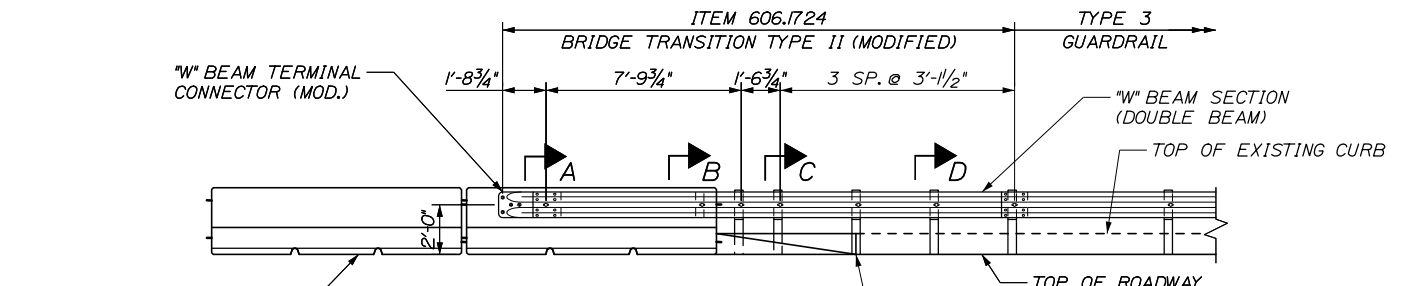
**TERMINAL END - ANCHORED END  
(ITEM 606.278)**



**"W" BEAM TERMINAL CONNECTOR (MOD.)**

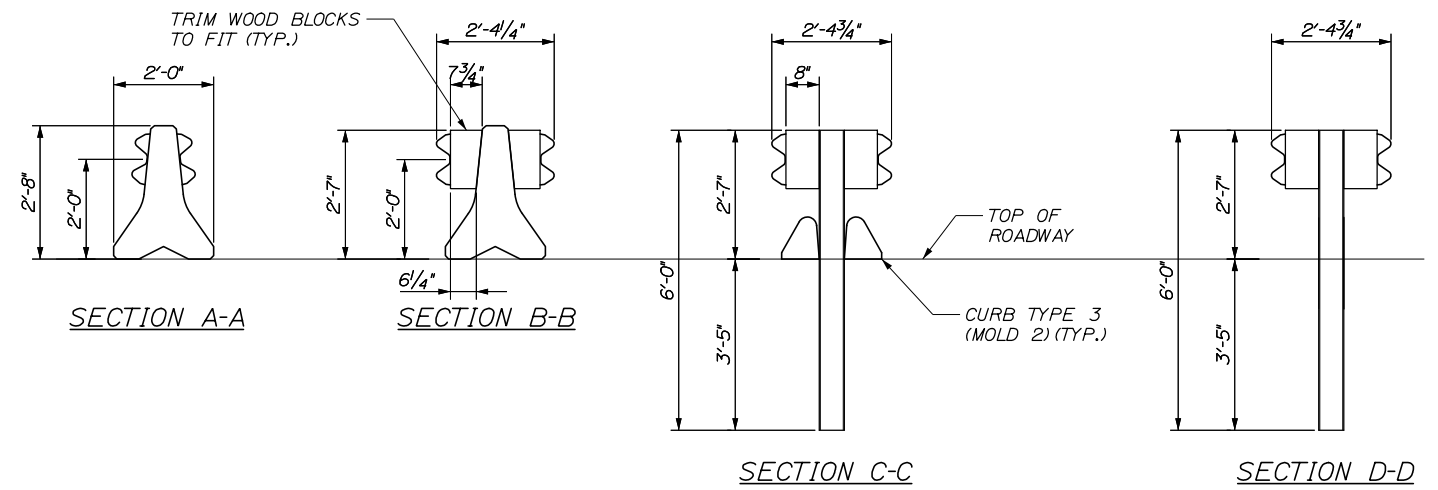


**PLAN - MEDIAN BARRIER**



**BRIDGE TRANSITION TYPE II (MODIFIED)**

**NOTE:**  
APPROPRIATE LENGTH 7/8" ASTM A325 HEX BOLTS ARE TO BE USED WITH HOLES DRILLED THROUGH THE PERMANENT MOVABLE CONCRETE BARRIER, ATTACHING THE W-BEAM TERMINAL CONNECTORS ON EACH SIDE.



Filename: 017\_Misc\_Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	JRH	07\19	Checked	RWH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD

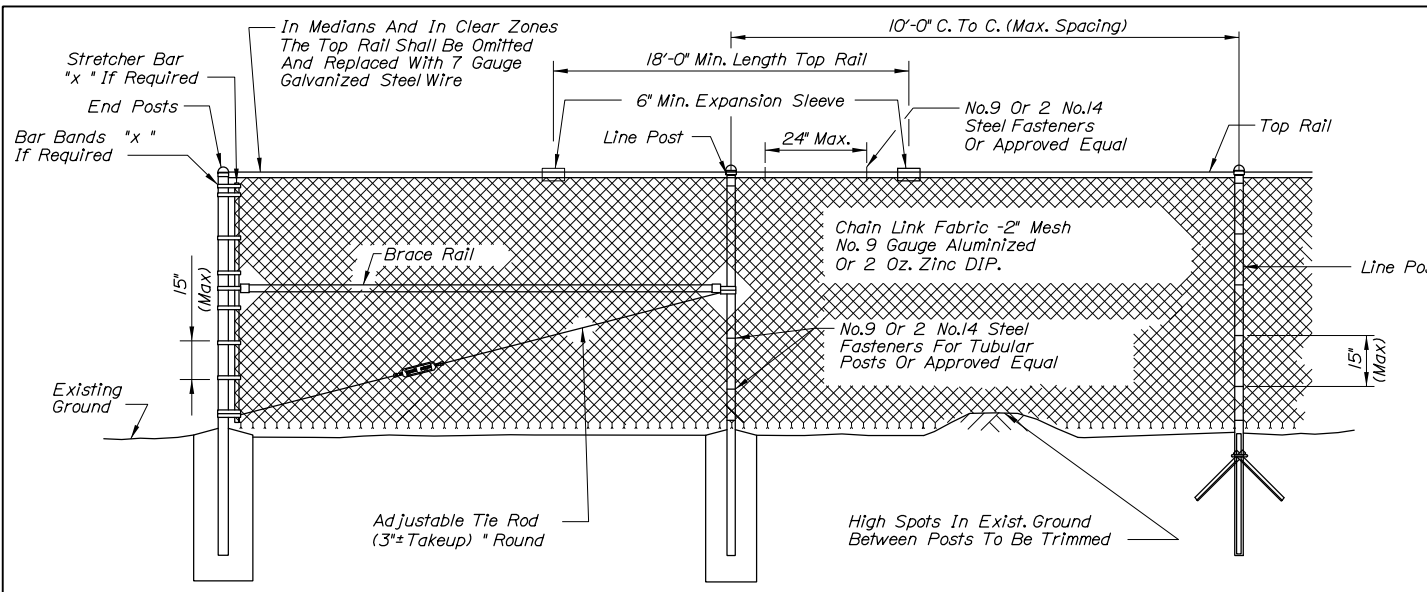
MISCELLANEOUS DETAILS (3 OF 4)

SHEET NUMBER: DT-03

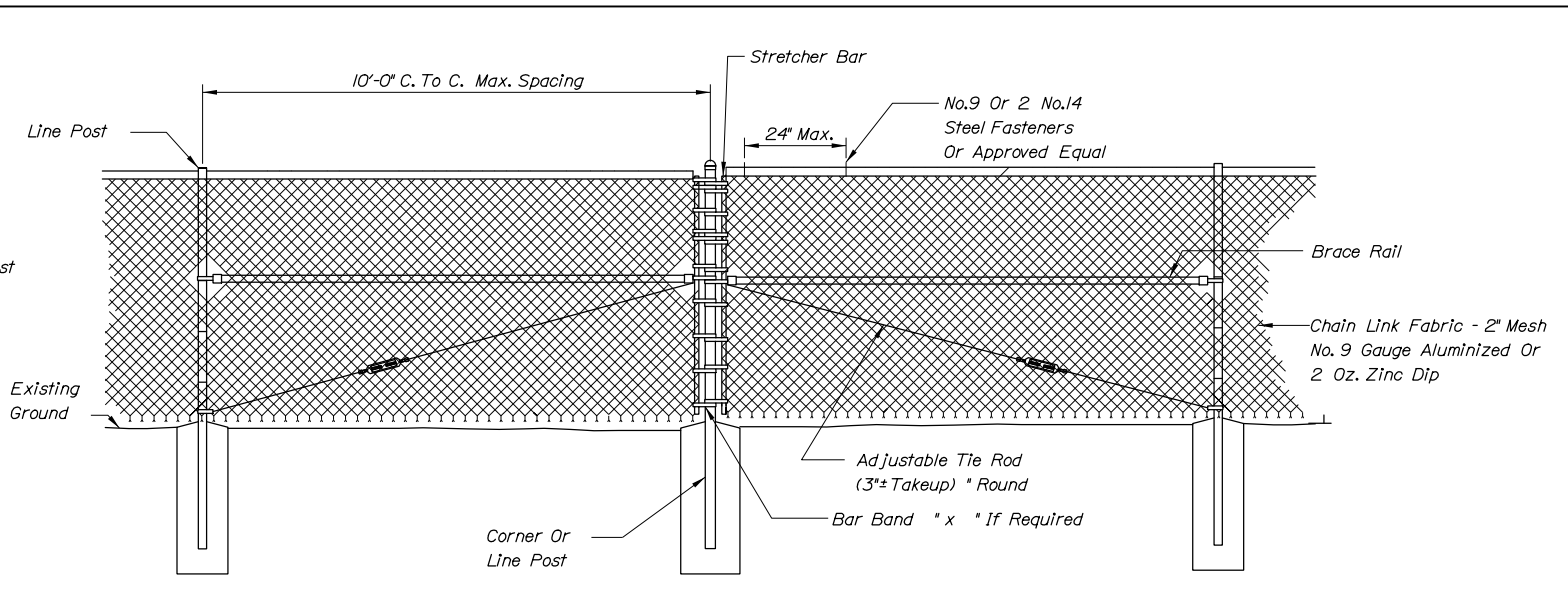
CONTRACT: 2019.13

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Date: 7/26/2019

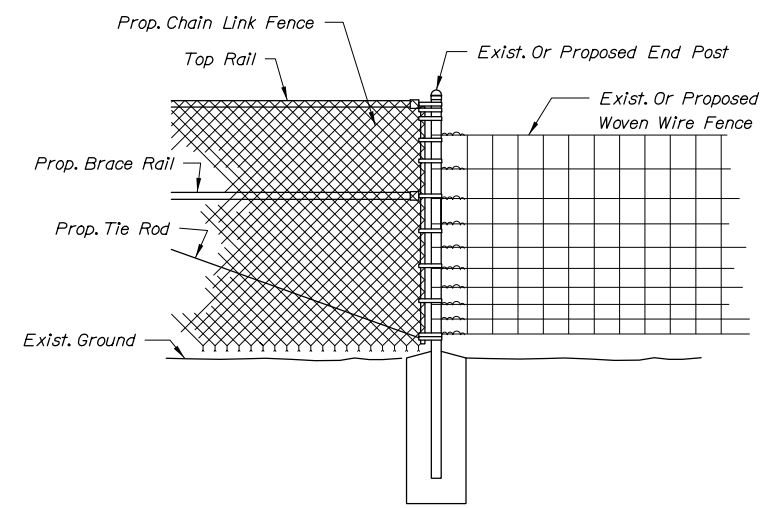


**TYPICAL TYPE I END PANEL**  
N.T.S.

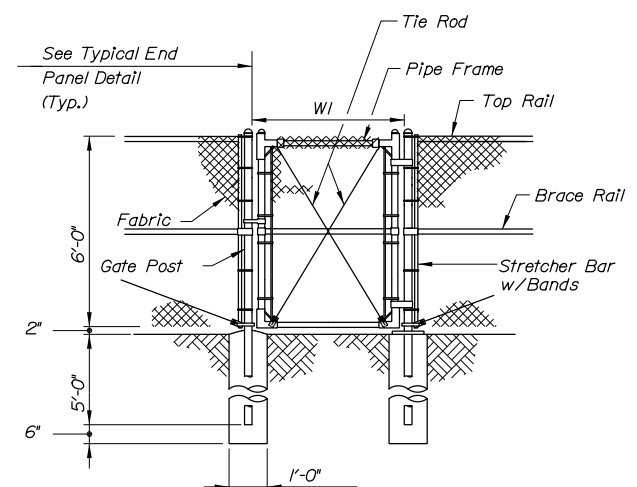


**TYPICAL TYPE II BRACE PANEL**  
N.T.S.

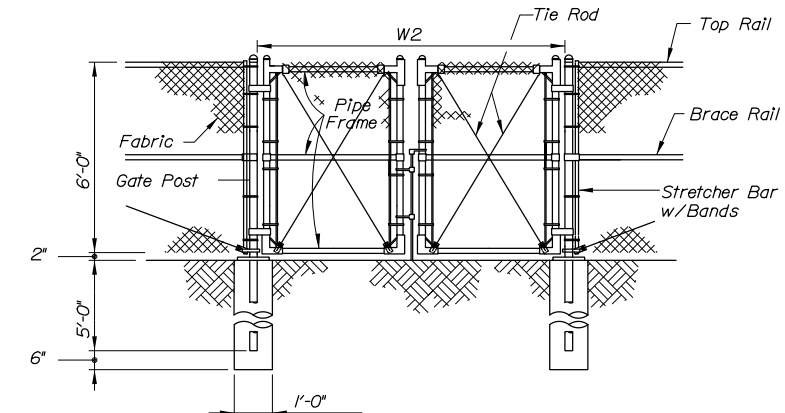
**TYPICAL INTERMEDIATE PANEL**  
N.T.S.



**METHOD OF ATTACHING CHAIN LINK FENCE TO WOVEN WIRE FENCE**  
N.T.S.



**SINGLE GATE**



**DOUBLE GATE**

Gate Width		Gate Post O.D.
W1	W2	
to 6'	to 12'	3"
6' to 12'	12' to 24'	4"
12' to 18'	24' to 36'	6"

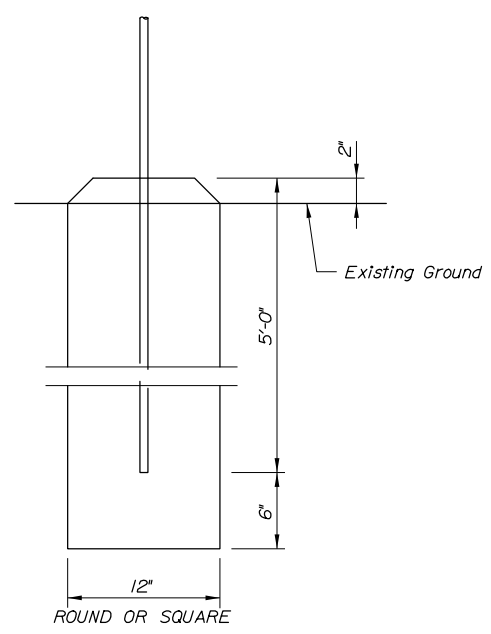
BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

CHAIN LINK FENCE	SHAPE	NOMINAL SIZE (INCHES)	BENDING MOMENT* (LBS.-IN.)
END & CORNER POSTS	φ	2 I.D.	14,025
LINE POSTS	φ	1-1/2 I.D.	8,150
TOP & BRACE RAILS	φ	1-1/4 I.D.	5,875

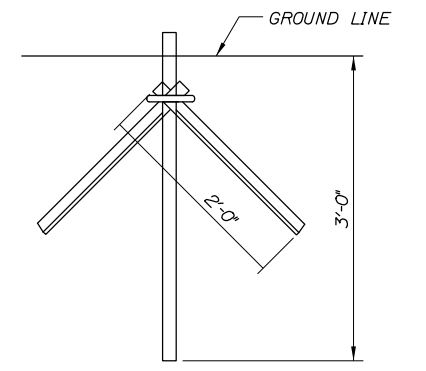
\* MATERIAL FOR GRADE 2 END, CORNER & LINE POSTS AND TOP & BRACE RAILS MUST MEET OR EXCEED BENDING MOMENTS FOR GRADE 1 STEEL AS NOTED ABOVE.

**NOTES:**

- BRACE PANELS SHALL BE INSTALLED WHERE THE CHANGE IN GRADE BETWEEN ANY THREE POSTS EXCEEDS 15 PERCENT.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR LONGER POSTS NECESSITATED BY LARGE GRADE DIFFERENTIAL.
- TYPE I BRACING WILL BE USED AT FENCE ENDS. TYPE II BRACING WILL BE USED AT CORNER POSTS.
- WHEN LEDGE IS ENCOUNTERED, STEEL POSTS SHALL BE SET AND GROUTED 12" DEEP UNLESS THE POSTS PENETRATE THE GROUND TO THE DEPTH INDICATED ON THE DRAWINGS.
- CONCRETE FOR POST FOUNDATION SHALL BE CLASS B.
- BRACE, GATE AND END POSTS SHALL BE SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE INSTALLED WITH BARBS DOWN.
- ALL COMPONENTS OF CHAIN LINK FENCE SHALL BE IN ACCORDANCE WITH AASHTO M181.



**BRACE, GATE AND END POST BASE DETAIL**  
N.T.S.



**LINE POST DRIVE ANCHOR DETAIL**  
N.T.S.

Filename: 010\_Fence Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

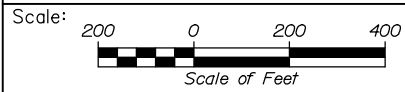
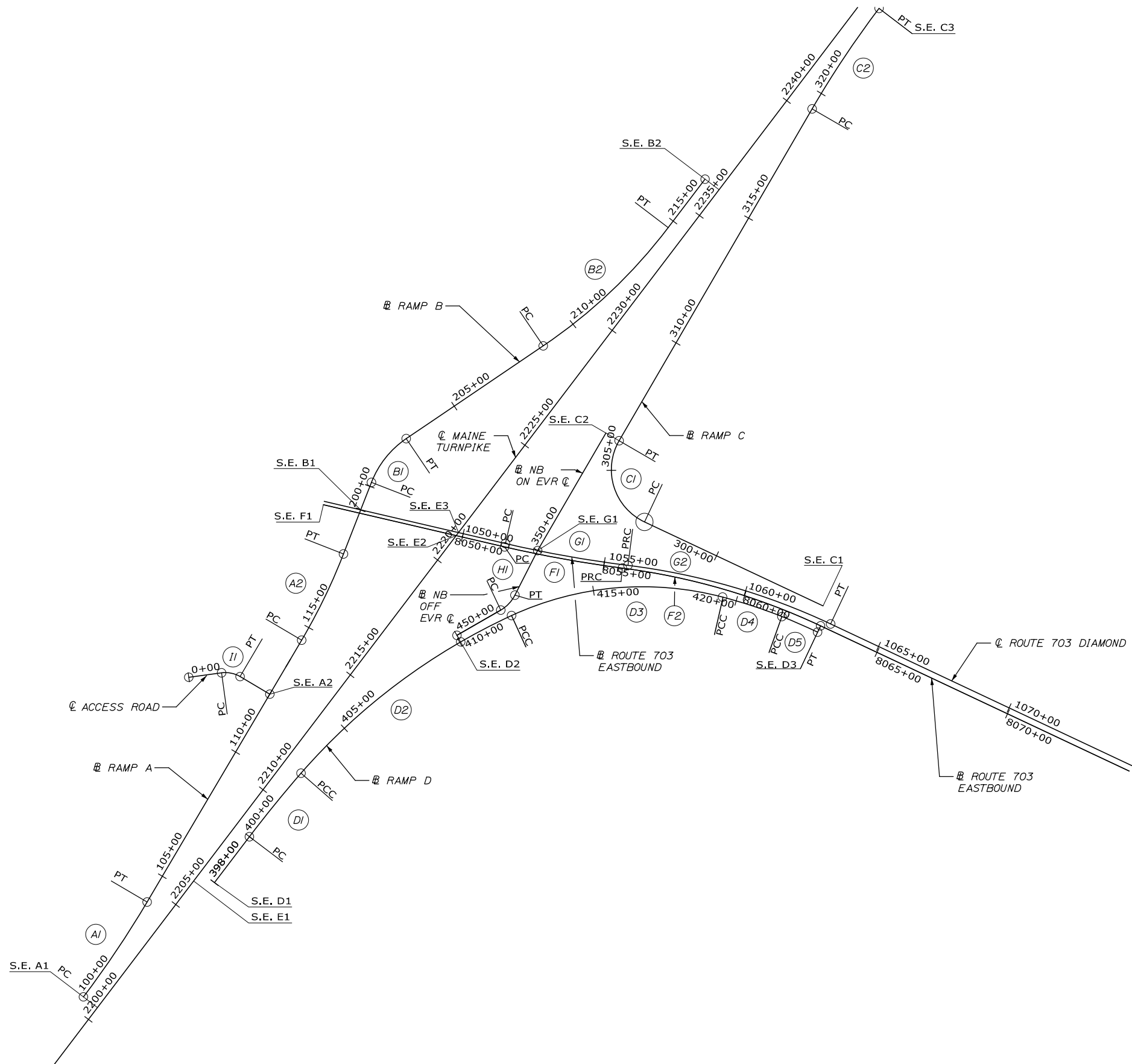
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
EMBANKMENT PRELOAD  
MISCELLANEOUS DETAILS (4 OF 4)

SHEET NUMBER: DT-04  
CONTRACT: 2019.13  
53 OF 173

Date: 7/26/2019

Filename: 0XX\_Geometric Plan\_Diamond.dgn



Designed by:



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

EXIT 45  
 EMBANKMENT PRELOAD  
 GEOMETRIC PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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

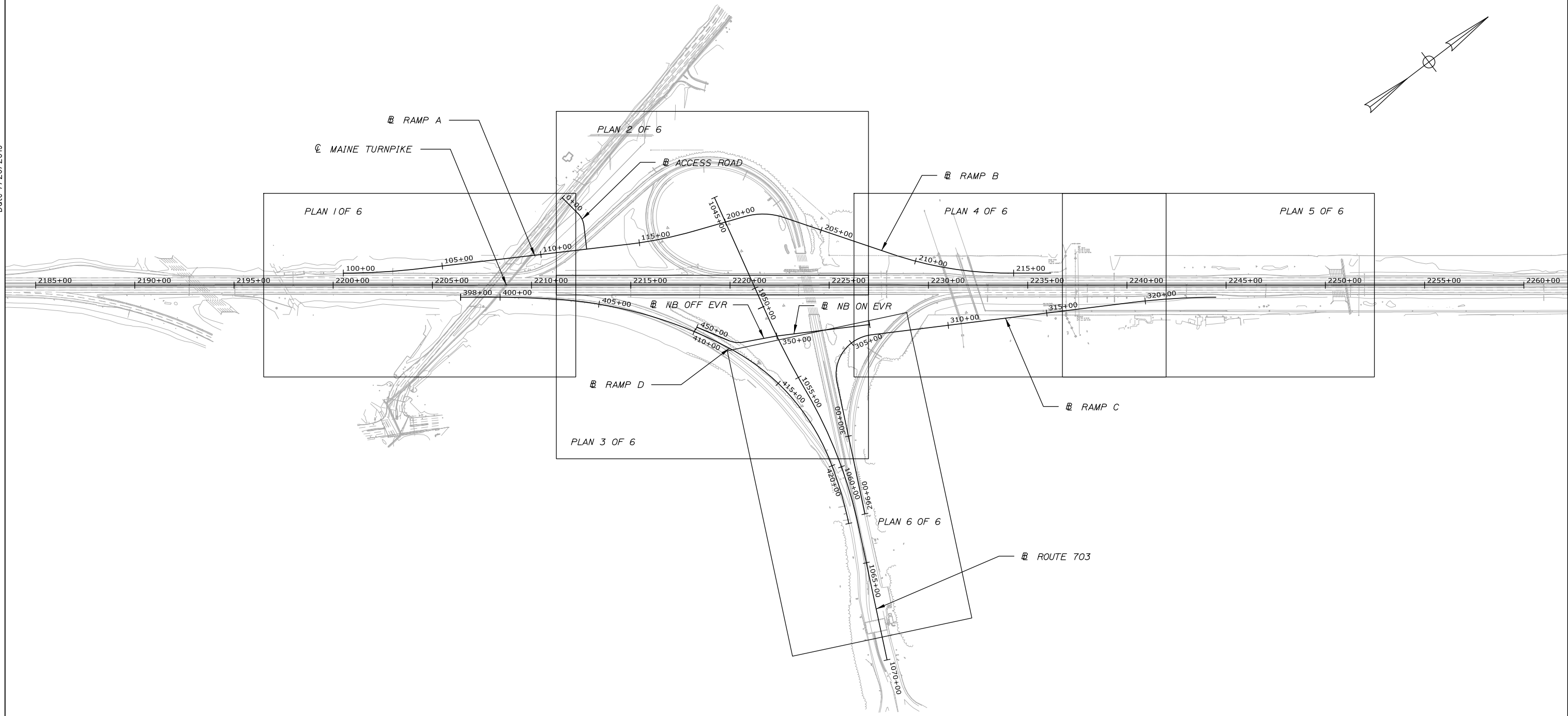
CONTRACT: 2019.13

SHEET NUMBER: PL-01

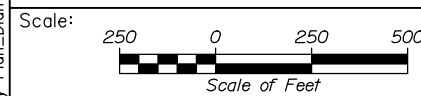
54 OF 173



Date: 7/26/2019



Filename: OXX\_Key Plan\_Diamond.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

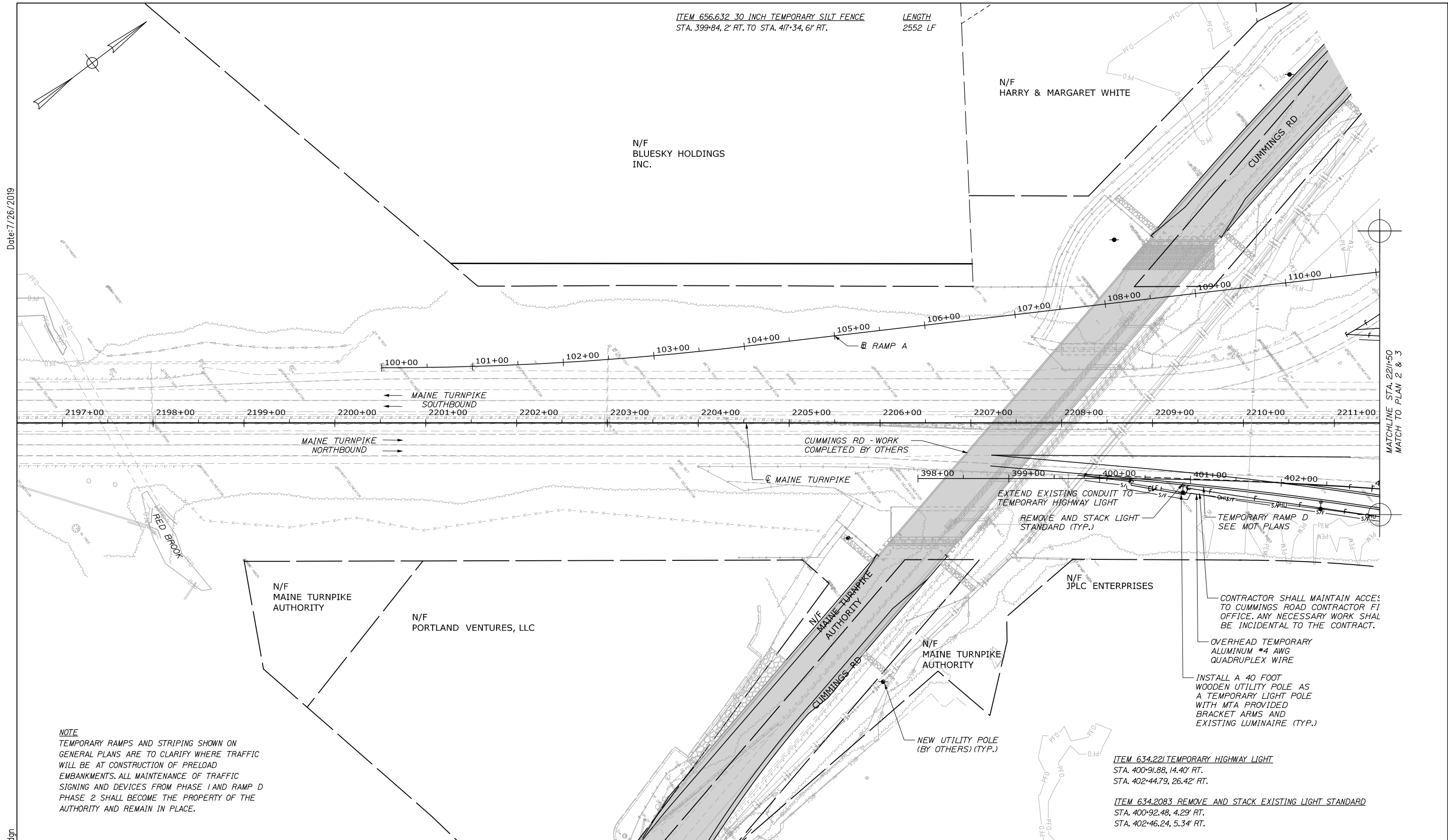
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 KEY PLAN

SHEET NUMBER: PL-03  
 CONTRACT: 2019.13  
 56 OF 173



Date: 7/26/2019



Filename: 011\_Preload Plan 1.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

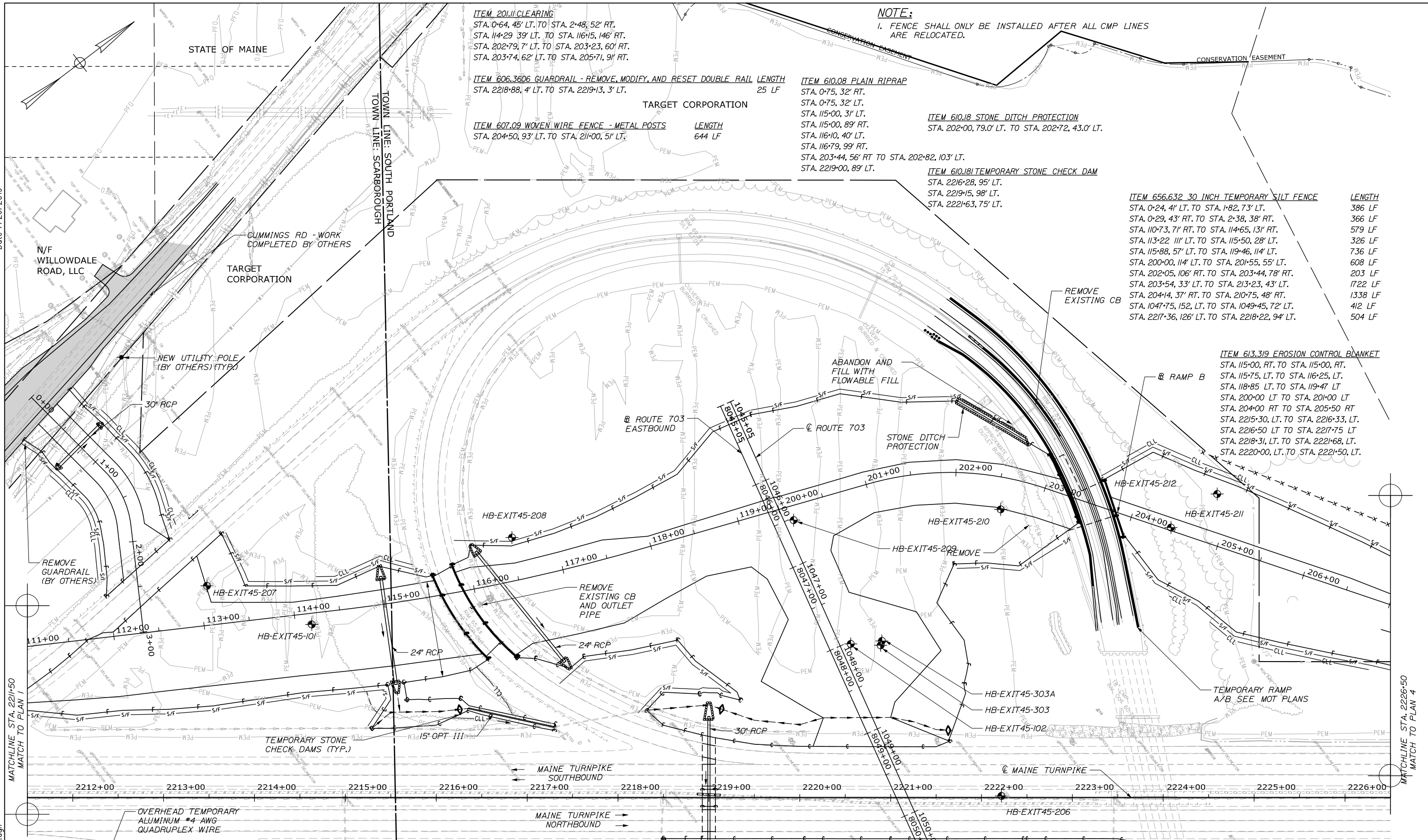
EXIT 45  
EMBANKMENT PRELOAD  
PLANS (1 OF 6)

SHEET NUMBER: PL-04  
CONTRACT: 2019.13  
57 OF 173

Date: 7/26/2019

MATCHLINE STA. 221+50  
MATCH TO PLAN 1

File name: 012\_Preload Plan 2.dgn



**ITEM 201.11 CLEARING**  
 STA. 0+64, 45' LT. TO STA. 2+48, 52' RT.  
 STA. 114+29, 33' LT. TO STA. 116+15, 146' RT.  
 STA. 202+79, 7' LT. TO STA. 203+23, 60' RT.  
 STA. 203+74, 62' LT. TO STA. 205+71, 91' RT.

**ITEM 606.3606 GUARDRAIL - REMOVE, MODIFY, AND RESET DOUBLE RAIL LENGTH**  
 STA. 2218+88, 4' LT. TO STA. 2219+13, 3' LT.  
 25 LF

**ITEM 607.09 WOVEN WIRE FENCE - METAL POSTS**  
 STA. 204+50, 93' LT. TO STA. 211+00, 51' LT.  
 LENGTH 644 LF

**ITEM 610.08 PLAIN RIPRAP**  
 STA. 0+75, 32' RT.  
 STA. 0+75, 32' LT.  
 STA. 115+00, 31' LT.  
 STA. 115+00, 89' RT.  
 STA. 116+10, 40' LT.  
 STA. 116+79, 99' RT.  
 STA. 203+44, 56' RT TO STA. 202+82, 103' LT.  
 STA. 2219+00, 89' LT.

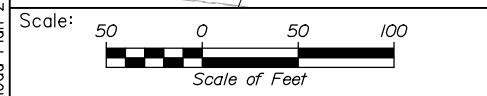
**ITEM 610.18 STONE DITCH PROTECTION**  
 STA. 202+00, 79.0' LT. TO STA. 202+72, 43.0' LT.

**ITEM 610.181 TEMPORARY STONE CHECK DAM**  
 STA. 2216+28, 95' LT.  
 STA. 2219+15, 98' LT.  
 STA. 2221+63, 75' LT.

**ITEM 656.632 30 INCH TEMPORARY SILT FENCE**  
 STA. 0+24, 41' LT. TO STA. 1+82, 73' LT. 386 LF  
 STA. 0+29, 43' RT. TO STA. 2+38, 38' RT. 366 LF  
 STA. 110+73, 71' RT. TO STA. 114+65, 131' RT. 579 LF  
 STA. 113+22, 111' LT. TO STA. 115+50, 28' LT. 326 LF  
 STA. 115+88, 57' LT. TO STA. 119+46, 114' LT. 736 LF  
 STA. 200+00, 114' LT. TO STA. 201+55, 55' LT. 608 LF  
 STA. 202+05, 106' RT. TO STA. 203+44, 78' RT. 203 LF  
 STA. 203+54, 33' LT. TO STA. 213+23, 43' LT. 1722 LF  
 STA. 204+14, 37' RT. TO STA. 210+75, 48' RT. 1338 LF  
 STA. 1047+75, 152, LT. TO STA. 1049+45, 72' LT. 412 LF  
 STA. 2217+36, 126' LT. TO STA. 2218+22, 94' LT. 504 LF

**ITEM 613.319 EROSION CONTROL BLANKET**  
 STA. 115+00, RT. TO STA. 115+00, RT.  
 STA. 115+75, LT. TO STA. 116+25, LT.  
 STA. 118+85, LT. TO STA. 119+47, LT.  
 STA. 200+00, LT. TO STA. 201+00, LT.  
 STA. 204+00, RT. TO STA. 205+50, RT.  
 STA. 2215+30, LT. TO STA. 2216+33, LT.  
 STA. 2216+50, LT. TO STA. 2217+75, LT.  
 STA. 2218+31, LT. TO STA. 2221+68, LT.  
 STA. 2220+00, LT. TO STA. 2221+50, LT.

**NOTE:**  
 1. FENCE SHALL ONLY BE INSTALLED AFTER ALL CMP LINES ARE RELOCATED.



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 PLANS (2 OF 6)

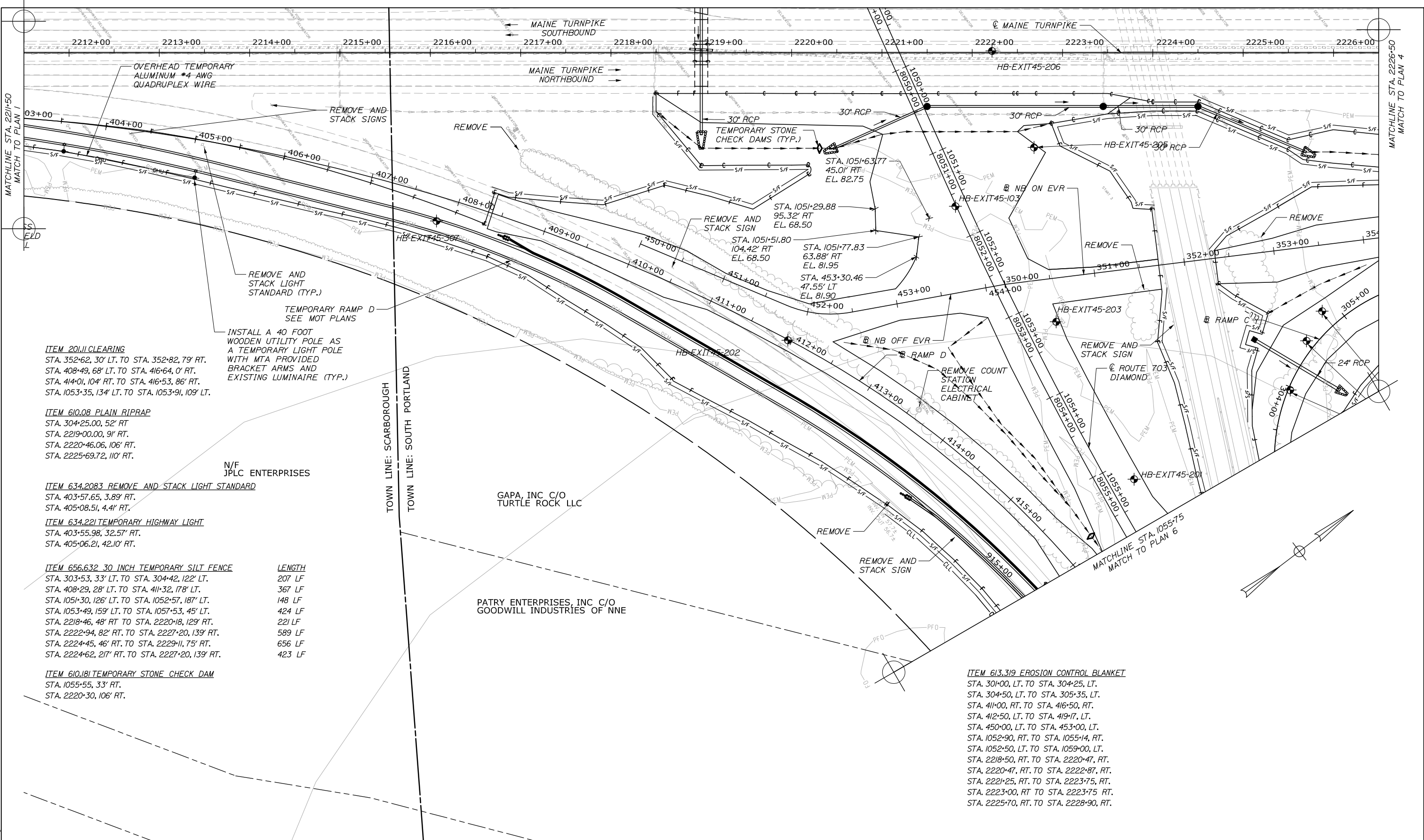
SHEET NUMBER: PL-05  
 58 OF 173

CONTRACT: 2019.13

Date: 7/26/2019

MATCHLINE STA. 2211+50  
MATCH TO PLAN 1

MATCHLINE STA. 2226+50  
MATCH TO PLAN 4



**ITEM 201.11 CLEARING**  
 STA. 352+62, 30' LT. TO STA. 352+82, 79' RT.  
 STA. 408+49, 68' LT. TO STA. 416+64, 0' RT.  
 STA. 414+01, 104' RT. TO STA. 416+53, 86' RT.  
 STA. 1053+35, 134' LT. TO STA. 1053+91, 109' LT.

**ITEM 610.08 PLAIN RIPRAP**  
 STA. 304+25.00, 52' RT  
 STA. 2219+00.00, 91' RT.  
 STA. 2220+46.06, 106' RT.  
 STA. 2225+69.72, 110' RT.

**ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD**  
 STA. 403+57.65, 3.89' RT.  
 STA. 405+08.51, 4.41' RT.

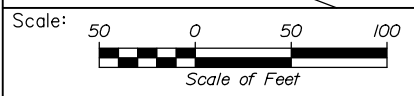
**ITEM 634.221 TEMPORARY HIGHWAY LIGHT**  
 STA. 403+55.98, 32.57' RT.  
 STA. 405+06.21, 42.10' RT.

**ITEM 656.632 30 INCH TEMPORARY SILT FENCE**

LENGTH
STA. 303+53, 33' LT. TO STA. 304+42, 122' LT.
STA. 408+29, 28' LT. TO STA. 411+32, 178' LT.
STA. 1051+30, 126' LT. TO STA. 1052+57, 187' LT.
STA. 1053+49, 159' LT. TO STA. 1057+53, 45' LT.
STA. 2218+46, 48' RT. TO STA. 2220+18, 129' RT.
STA. 2222+94, 82' RT. TO STA. 2227+20, 139' RT.
STA. 2224+45, 46' RT. TO STA. 2229+11, 75' RT.
STA. 2224+62, 217' RT. TO STA. 2227+20, 139' RT.
423 LF

**ITEM 610.181 TEMPORARY STONE CHECK DAM**  
 STA. 1055+55, 33' RT.  
 STA. 2220+30, 106' RT.

**ITEM 613.319 EROSION CONTROL BLANKET**  
 STA. 304+00, LT. TO STA. 304+25, LT.  
 STA. 304+50, LT. TO STA. 305+35, LT.  
 STA. 411+00, RT. TO STA. 416+50, RT.  
 STA. 412+50, LT. TO STA. 419+17, LT.  
 STA. 450+00, LT. TO STA. 453+00, LT.  
 STA. 1052+90, RT. TO STA. 1055+14, RT.  
 STA. 1052+50, LT. TO STA. 1059+00, LT.  
 STA. 2218+50, RT. TO STA. 2220+47, RT.  
 STA. 2220+47, RT. TO STA. 2222+87, RT.  
 STA. 2221+25, RT. TO STA. 2223+75, RT.  
 STA. 2223+00, RT. TO STA. 2223+75, RT.  
 STA. 2225+70, RT. TO STA. 2228+90, RT.



Designed by:



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 45  
 EMBANKMENT PRELOAD  
 PLANS (3 OF 6)**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	EDD	07\19	JRH
Drawn	By	Date	In Charge of
	AJS	07\19	RAL

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

CONTRACT: 2019.13

SHEET NUMBER: PL-06

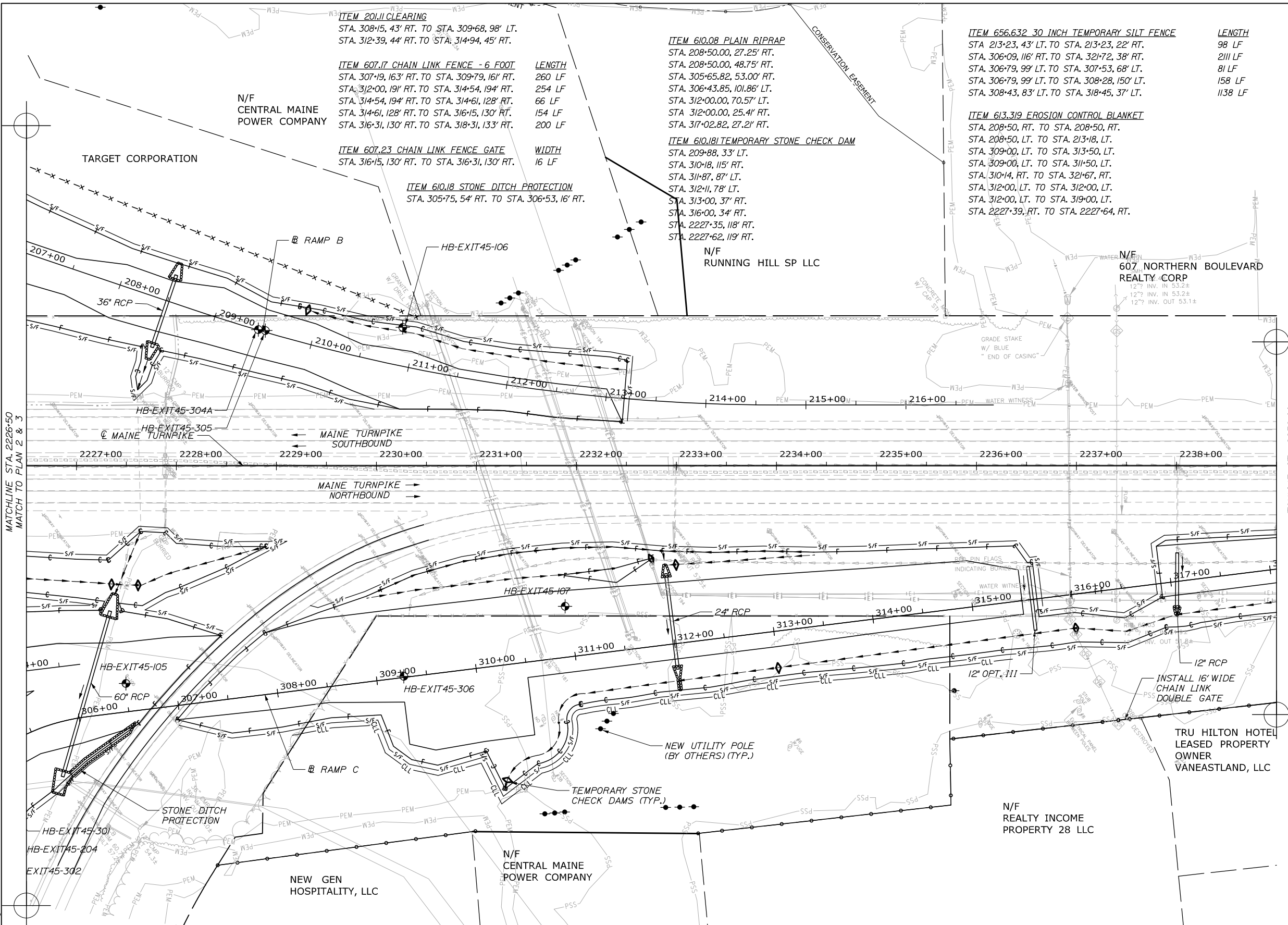
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Filename: 013\_Preload Plan 3.dgn

Date: 7/26/2019

MATCHLINE STA. 2226+50  
MATCH TO PLAN 2 & 3

MATCHLINE STA. 2239+00  
MATCH TO PLAN 5



**ITEM 2011 CLEARING**  
 STA. 308+15, 43' RT. TO STA. 309+68, 98' LT.  
 STA. 312+39, 44' RT. TO STA. 314+94, 45' RT.

**ITEM 607.17 CHAIN LINK FENCE - 6 FOOT**      **LENGTH**  
 STA. 307+19, 163' RT. TO STA. 309+79, 161' RT.      260 LF  
 STA. 312+00, 191' RT. TO STA. 314+54, 194' RT.      254 LF  
 STA. 314+54, 194' RT. TO STA. 314+61, 128' RT.      66 LF  
 STA. 314+61, 128' RT. TO STA. 316+15, 130' RT.      154 LF  
 STA. 316+31, 130' RT. TO STA. 318+31, 133' RT.      200 LF

**ITEM 607.23 CHAIN LINK FENCE GATE**      **WIDTH**  
 STA. 316+15, 130' RT. TO STA. 316+31, 130' RT.      16 LF

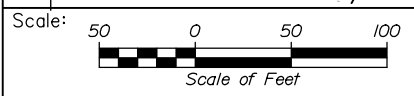
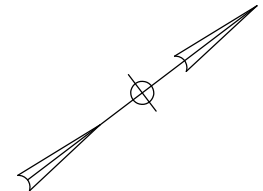
**ITEM 610.18 STONE DITCH PROTECTION**  
 STA. 305+75, 54' RT. TO STA. 306+53, 16' RT.

**ITEM 610.08 PLAIN RIPRAP**  
 STA. 208+50.00, 27.25' RT.  
 STA. 208+50.00, 48.75' RT.  
 STA. 305+65.82, 53.00' RT.  
 STA. 306+43.85, 101.86' LT.  
 STA. 312+00.00, 70.57' LT.  
 STA. 312+00.00, 25.41' RT.  
 STA. 317+02.82, 27.21' RT.

**ITEM 610.181 TEMPORARY STONE CHECK DAM**  
 STA. 209+88, 33' LT.  
 STA. 310+18, 115' RT.  
 STA. 311+87, 87' LT.  
 STA. 312+11, 78' LT.  
 STA. 313+00, 37' RT.  
 STA. 316+00, 34' RT.  
 STA. 2227+35, 118' RT.  
 STA. 2227+62, 119' RT.

**ITEM 656.632 30 INCH TEMPORARY SILT FENCE**      **LENGTH**  
 STA. 213+23, 43' LT. TO STA. 213+23, 22' RT.      98 LF  
 STA. 306+09, 116' RT. TO STA. 321+72, 38' RT.      2111 LF  
 STA. 306+79, 99' LT. TO STA. 307+53, 68' LT.      81 LF  
 STA. 306+79, 99' LT. TO STA. 308+28, 150' LT.      158 LF  
 STA. 308+43, 83' LT. TO STA. 318+45, 37' LT.      1138 LF

**ITEM 613.319 EROSION CONTROL BLANKET**  
 STA. 208+50, RT. TO STA. 208+50, RT.  
 STA. 208+50, LT. TO STA. 213+18, LT.  
 STA. 309+00, LT. TO STA. 313+50, LT.  
 STA. 309+00, LT. TO STA. 311+50, LT.  
 STA. 310+14, RT. TO STA. 321+67, RT.  
 STA. 312+00, LT. TO STA. 312+00, LT.  
 STA. 312+00, LT. TO STA. 319+00, LT.  
 STA. 2227+39, RT. TO STA. 2227+64, RT.



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 45  
 EMBANKMENT PRELOAD  
 PLANS (4 OF 6)**

**NOTE:**  
 1. FENCE SHALL ONLY BE INSTALLED  
 AFTER ALL CMP LINES ARE  
 RELOCATED.

Filename: 014\_Preload Plan 4.dgn

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

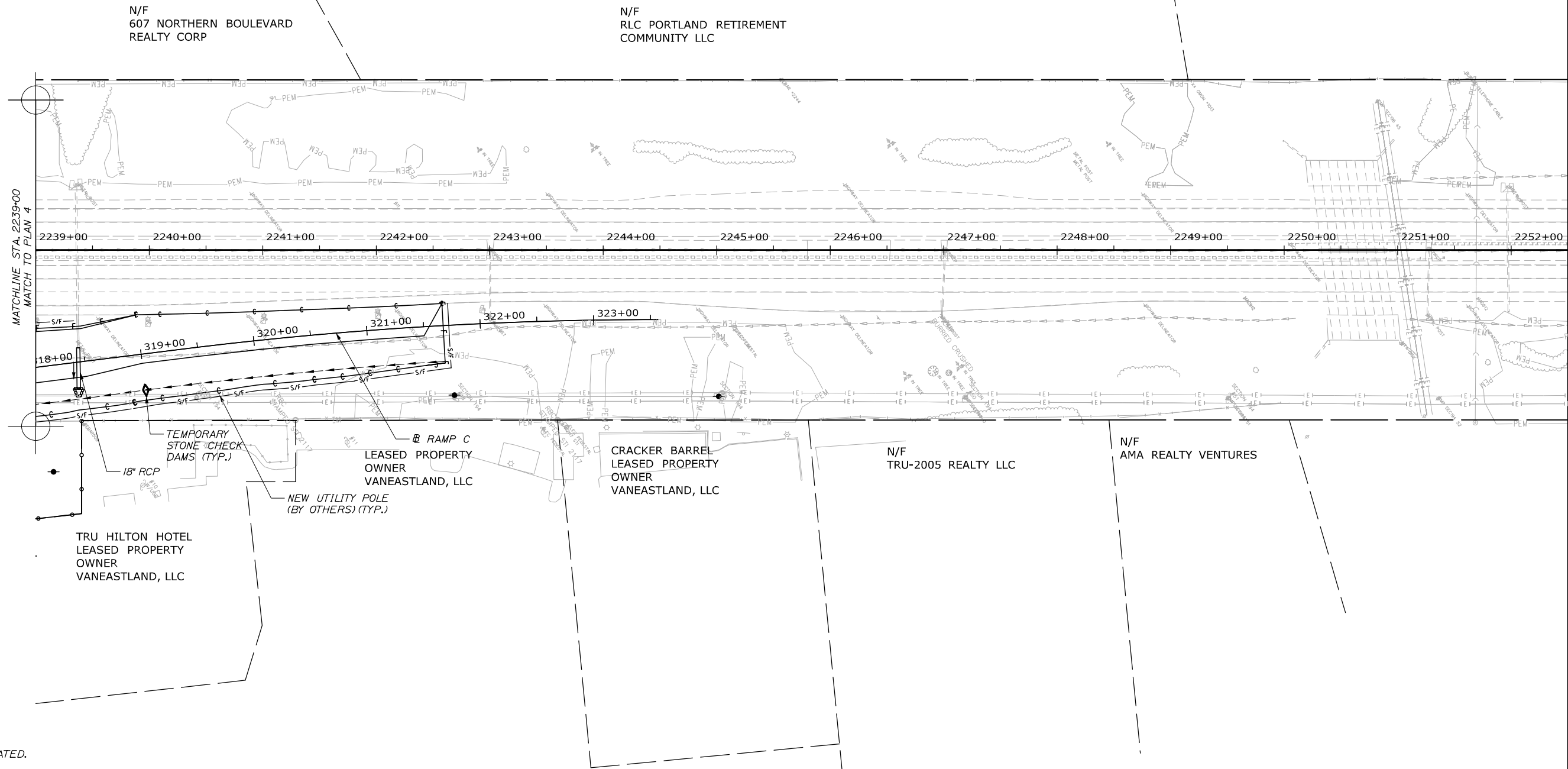
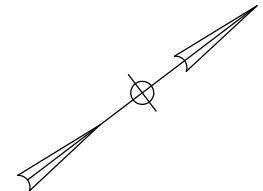
CONTRACT: 2019.13

SHEET NUMBER: PL-07

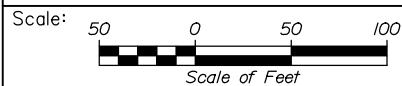
60 OF 173

Date: 7/26/2019

- ITEM 607.17 CHAIN LINK FENCE - 6 FOOT  
STA. 318+31, 133' RT. TO STA. 318+41, 52' RT.      LENGTH  
82 LF
- ITEM 610.08 PLAIN RIPRAP  
STA. 318+41, 31' RT.
- ITEM 656.632 30 INCH TEMPORARY SILT FENCE      LENGTH  
STA. 321+72, 20' LT. TO STA. 321+72, 38' RT.      57 LF
- ITEM 610.181 TEMPORARY STONE CHECK DAM  
STA. 319+00, 32' RT.



**NOTE:**  
1. FENCE SHALL ONLY BE INSTALLED AFTER ALL UTILITIES ARE RELOCATED.



No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD  
PLANS (5 OF 6)**

CONTRACT: 2019.13

SHEET NUMBER: PL-08

61 OF 173

Filename: 015\_Preload Plan 5.dgn

Date: 7/26/2019

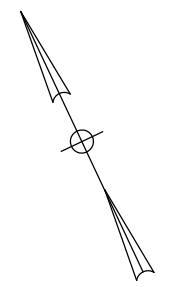
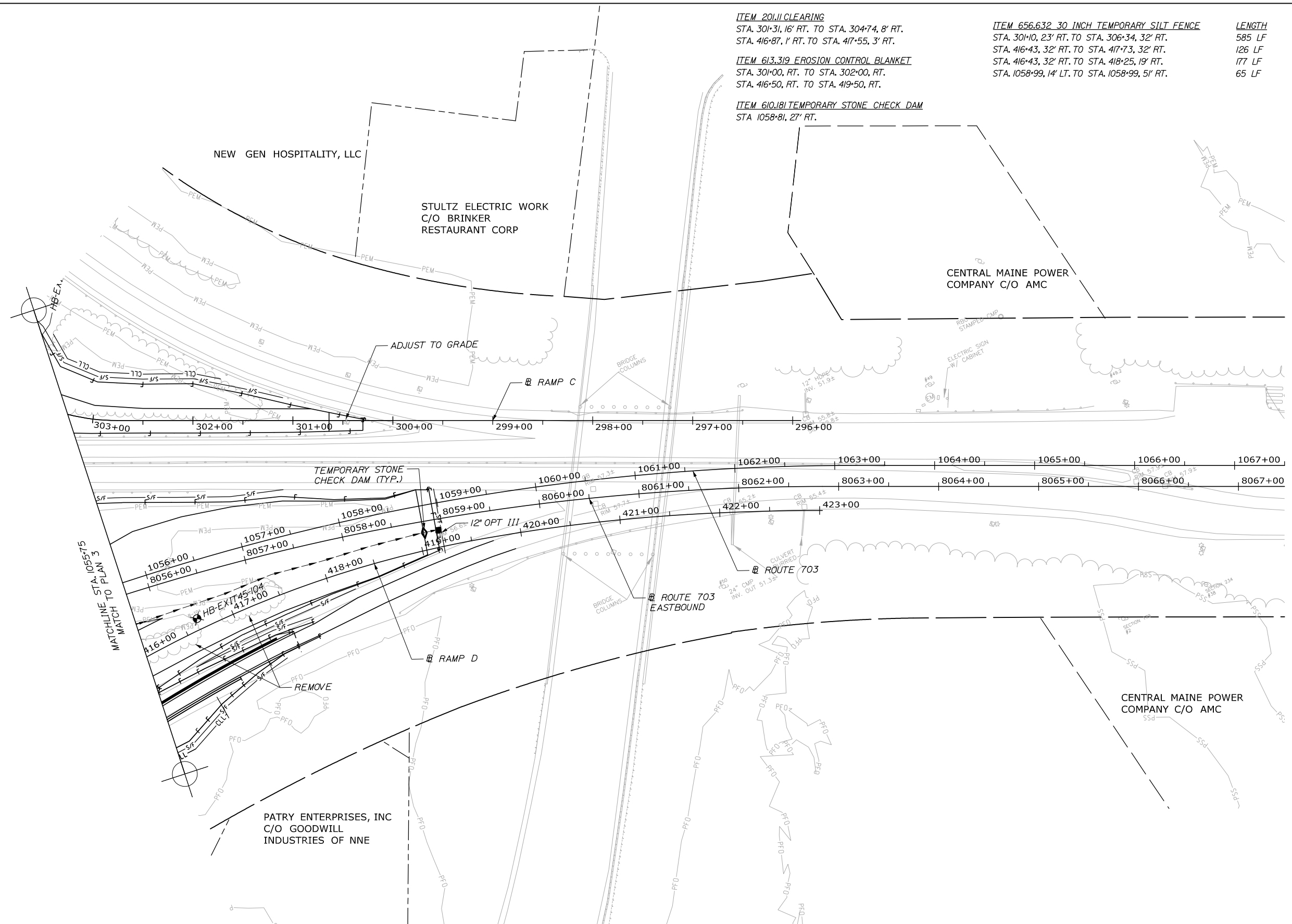
**ITEM 20111 CLEARING**  
 STA. 301+31, 16' RT. TO STA. 304+74, 8' RT.  
 STA. 416+87, 1' RT. TO STA. 417+55, 3' RT.

**ITEM 613.319 EROSION CONTROL BLANKET**  
 STA. 301+00, RT. TO STA. 302+00, RT.  
 STA. 416+50, RT. TO STA. 419+50, RT.

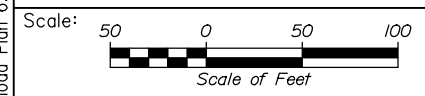
**ITEM 610.181 TEMPORARY STONE CHECK DAM**  
 STA. 1058+81, 27' RT.

**ITEM 656.632 30 INCH TEMPORARY SILT FENCE**

LENGTH
STA. 301+0, 23' RT. TO STA. 306+34, 32' RT. 585 LF
STA. 416+43, 32' RT. TO STA. 417+73, 32' RT. 126 LF
STA. 416+43, 32' RT. TO STA. 418+25, 19' RT. 177 LF
STA. 1058+99, 14' LT. TO STA. 1058+99, 51' RT. 65 LF



Filename: 016\_Preload Plan 6.dgn



No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**


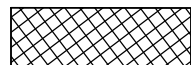

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

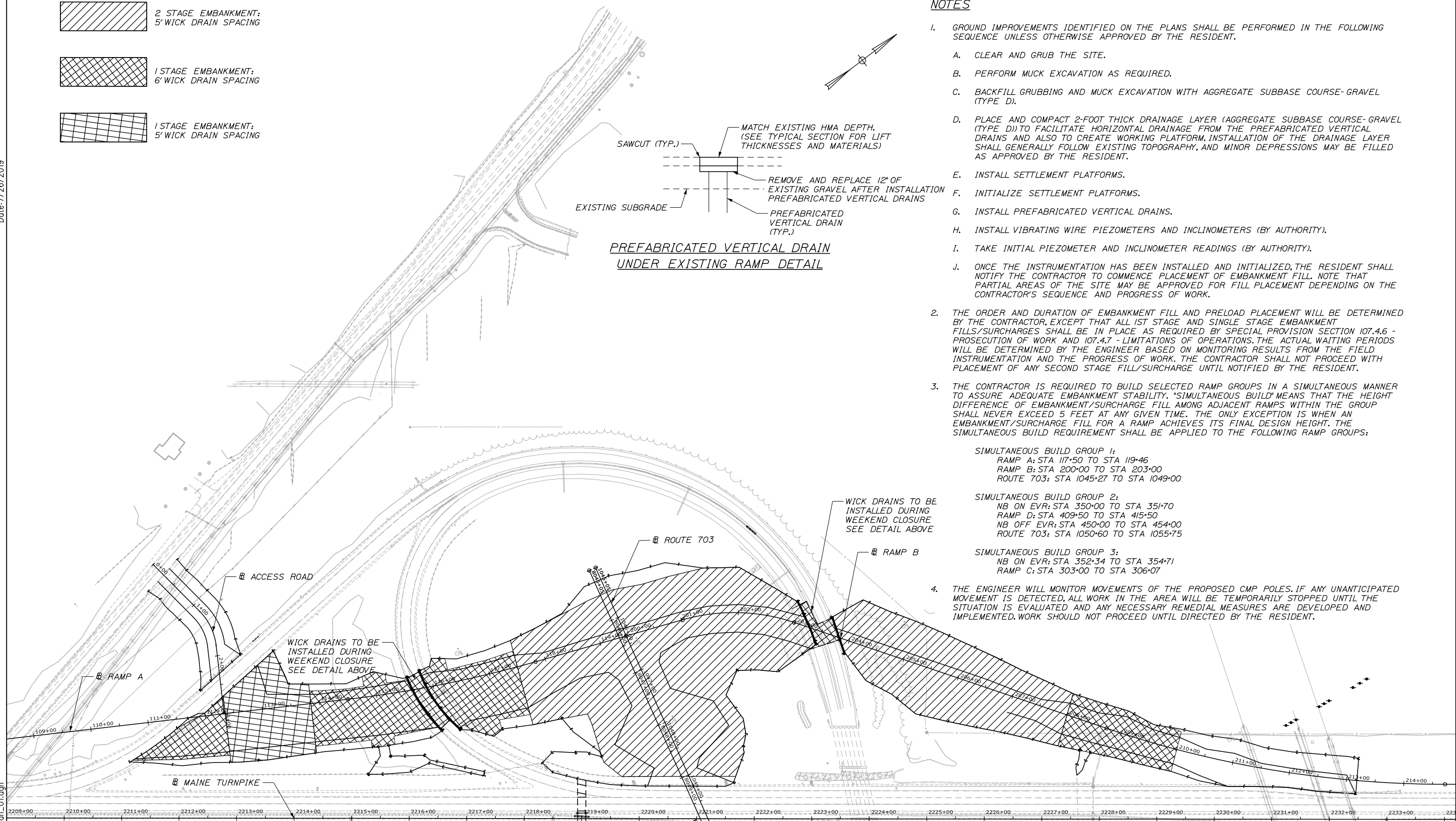
**EXIT 45  
EMBANKMENT PRELOAD  
PLANS (6 OF 6)**

SHEET NUMBER: PL-09  
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CONTRACT: 2019.13

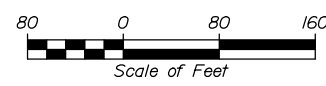
Date: 7/26/2019  
Filename: 00X\_Geotechnical Plan\_01.dgn

-  2 STAGE EMBANKMENT:  
5' WICK DRAIN SPACING
-  1 STAGE EMBANKMENT:  
6' WICK DRAIN SPACING
-  1 STAGE EMBANKMENT:  
5' WICK DRAIN SPACING



**NOTES**

1. GROUND IMPROVEMENTS IDENTIFIED ON THE PLANS SHALL BE PERFORMED IN THE FOLLOWING SEQUENCE UNLESS OTHERWISE APPROVED BY THE RESIDENT.
  - A. CLEAR AND GRUB THE SITE.
  - B. PERFORM MUCK EXCAVATION AS REQUIRED.
  - C. BACKFILL GRUBBING AND MUCK EXCAVATION WITH AGGREGATE SUBBASE COURSE- GRAVEL (TYPE D).
  - D. PLACE AND COMPACT 2-FOOT THICK DRAINAGE LAYER (AGGREGATE SUBBASE COURSE- GRAVEL (TYPE D)) TO FACILITATE HORIZONTAL DRAINAGE FROM THE PREFABRICATED VERTICAL DRAINS AND ALSO TO CREATE WORKING PLATFORM. INSTALLATION OF THE DRAINAGE LAYER SHALL GENERALLY FOLLOW EXISTING TOPOGRAPHY, AND MINOR DEPRESSIONS MAY BE FILLED AS APPROVED BY THE RESIDENT.
  - E. INSTALL SETTLEMENT PLATFORMS.
  - F. INITIALIZE SETTLEMENT PLATFORMS.
  - G. INSTALL PREFABRICATED VERTICAL DRAINS.
  - H. INSTALL VIBRATING WIRE PIEZOMETERS AND INCLINOMETERS (BY AUTHORITY).
  - I. TAKE INITIAL PIEZOMETER AND INCLINOMETER READINGS (BY AUTHORITY).
  - J. ONCE THE INSTRUMENTATION HAS BEEN INSTALLED AND INITIALIZED, THE RESIDENT SHALL NOTIFY THE CONTRACTOR TO COMMENCE PLACEMENT OF EMBANKMENT FILL. NOTE THAT PARTIAL AREAS OF THE SITE MAY BE APPROVED FOR FILL PLACEMENT DEPENDING ON THE CONTRACTOR'S SEQUENCE AND PROGRESS OF WORK.
2. THE ORDER AND DURATION OF EMBANKMENT FILL AND PRELOAD PLACEMENT WILL BE DETERMINED BY THE CONTRACTOR, EXCEPT THAT ALL 1ST STAGE AND SINGLE STAGE EMBANKMENT FILLS/SURCHARGES SHALL BE IN PLACE AS REQUIRED BY SPECIAL PROVISION SECTION 107.4.6 - PROSECUTION OF WORK AND 107.4.7 - LIMITATIONS OF OPERATIONS. THE ACTUAL WAITING PERIODS WILL BE DETERMINED BY THE ENGINEER BASED ON MONITORING RESULTS FROM THE FIELD INSTRUMENTATION AND THE PROGRESS OF WORK. THE CONTRACTOR SHALL NOT PROCEED WITH PLACEMENT OF ANY SECOND STAGE FILL/SURCHARGE UNTIL NOTIFIED BY THE RESIDENT.
3. THE CONTRACTOR IS REQUIRED TO BUILD SELECTED RAMP GROUPS IN A SIMULTANEOUS MANNER TO ASSURE ADEQUATE EMBANKMENT STABILITY. "SIMULTANEOUS BUILD" MEANS THAT THE HEIGHT DIFFERENCE OF EMBANKMENT/SURCHARGE FILL AMONG ADJACENT RAMPS WITHIN THE GROUP SHALL NEVER EXCEED 5 FEET AT ANY GIVEN TIME. THE ONLY EXCEPTION IS WHEN AN EMBANKMENT/SURCHARGE FILL FOR A RAMP ACHIEVES ITS FINAL DESIGN HEIGHT. THE SIMULTANEOUS BUILD REQUIREMENT SHALL BE APPLIED TO THE FOLLOWING RAMP GROUPS:
  - SIMULTANEOUS BUILD GROUP 1:  
RAMP A: STA 117+50 TO STA 119+46  
RAMP B: STA 200+00 TO STA 203+00  
ROUTE 703: STA 1045+27 TO STA 1049+00
  - SIMULTANEOUS BUILD GROUP 2:  
NB ON EVR: STA 350+00 TO STA 351+70  
RAMP D: STA 409+50 TO STA 415+50  
NB OFF EVR: STA 450+00 TO STA 454+00  
ROUTE 703: STA 1050+60 TO STA 1055+75
  - SIMULTANEOUS BUILD GROUP 3:  
NB ON EVR: STA 352+34 TO STA 354+71  
RAMP C: STA 303+00 TO STA 306+07
4. THE ENGINEER WILL MONITOR MOVEMENTS OF THE PROPOSED CMP POLES. IF ANY UNANTICIPATED MOVEMENT IS DETECTED, ALL WORK IN THE AREA WILL BE TEMPORARILY STOPPED UNTIL THE SITUATION IS EVALUATED AND ANY NECESSARY REMEDIAL MEASURES ARE DEVELOPED AND IMPLEMENTED. WORK SHOULD NOT PROCEED UNTIL DIRECTED BY THE RESIDENT.

Scale: 


No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	BCS	07\19	Checked
			JRS 07\19
Drawn	CRC	07\19	In Charge of
			RAL 07\19

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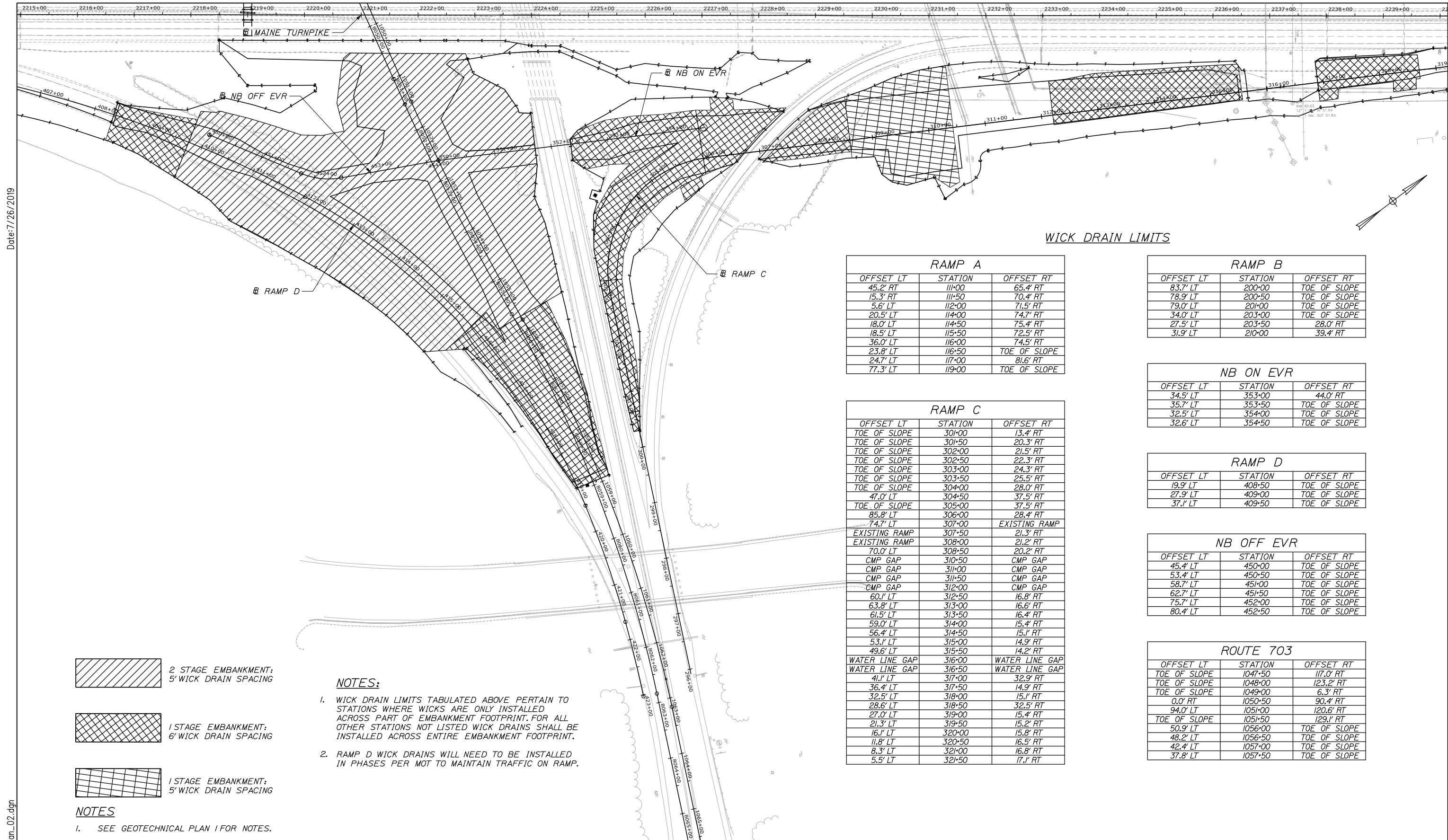


THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD  
GEOTECHNICAL PLAN 1

SHEET NUMBER: GT-01  
CONTRACT: 2019.13  
93 OF 173



**WICK DRAIN LIMITS**

RAMP A		
OFFSET LT	STATION	OFFSET RT
45.2' RT	111+00	65.4' RT
15.3' RT	111+50	70.4' RT
5.6' LT	112+00	71.5' RT
20.5' LT	114+00	74.7' RT
18.0' LT	114+50	75.4' RT
18.5' LT	115+50	72.5' RT
36.0' LT	116+00	74.5' RT
23.8' LT	116+50	TOE OF SLOPE
24.7' LT	117+00	81.6' RT
77.3' LT	119+00	TOE OF SLOPE

RAMP B		
OFFSET LT	STATION	OFFSET RT
83.7' LT	200+00	TOE OF SLOPE
78.9' LT	200+50	TOE OF SLOPE
79.0' LT	201+00	TOE OF SLOPE
34.0' LT	203+00	TOE OF SLOPE
27.5' LT	203+50	28.0' RT
31.9' LT	210+00	39.4' RT

NB ON EVR		
OFFSET LT	STATION	OFFSET RT
34.5' LT	353+00	44.0' RT
35.7' LT	353+50	TOE OF SLOPE
32.5' LT	354+00	TOE OF SLOPE
32.6' LT	354+50	TOE OF SLOPE

RAMP D		
OFFSET LT	STATION	OFFSET RT
19.9' LT	408+50	TOE OF SLOPE
27.9' LT	409+00	TOE OF SLOPE
37.1' LT	409+50	TOE OF SLOPE

NB OFF EVR		
OFFSET LT	STATION	OFFSET RT
45.4' LT	450+00	TOE OF SLOPE
53.4' LT	450+50	TOE OF SLOPE
58.7' LT	451+00	TOE OF SLOPE
62.7' LT	451+50	TOE OF SLOPE
75.7' LT	452+00	TOE OF SLOPE
80.4' LT	452+50	TOE OF SLOPE

RAMP C		
OFFSET LT	STATION	OFFSET RT
TOE OF SLOPE	301+00	13.4' RT
TOE OF SLOPE	301+50	20.3' RT
TOE OF SLOPE	302+00	21.5' RT
TOE OF SLOPE	302+50	22.3' RT
TOE OF SLOPE	303+00	24.3' RT
TOE OF SLOPE	303+50	25.5' RT
TOE OF SLOPE	304+00	28.0' RT
47.0' LT	304+50	37.5' RT
TOE OF SLOPE	305+00	37.5' RT
85.8' LT	306+00	28.4' RT
74.7' LT	307+00	EXISTING RAMP
EXISTING RAMP	307+50	21.3' RT
EXISTING RAMP	308+00	21.2' RT
70.0' LT	308+50	20.2' RT
CMP GAP	310+50	CMP GAP
CMP GAP	311+00	CMP GAP
CMP GAP	311+50	CMP GAP
CMP GAP	312+00	CMP GAP
60.1' LT	312+50	16.8' RT
63.8' LT	313+00	16.6' RT
61.5' LT	313+50	16.4' RT
59.0' LT	314+00	15.4' RT
56.4' LT	314+50	15.1' RT
53.1' LT	315+00	14.9' RT
49.6' LT	315+50	14.2' RT
WATER LINE GAP	316+00	WATER LINE GAP
WATER LINE GAP	316+50	WATER LINE GAP
41.1' LT	317+00	32.9' RT
36.4' LT	317+50	14.9' RT
32.5' LT	318+00	15.1' RT
28.6' LT	318+50	32.5' RT
27.0' LT	319+00	15.4' RT
21.3' LT	319+50	15.2' RT
16.1' LT	320+00	15.8' RT
11.8' LT	320+50	16.5' RT
8.3' LT	321+00	16.8' RT
5.5' LT	321+50	17.1' RT

ROUTE 703		
OFFSET LT	STATION	OFFSET RT
TOE OF SLOPE	1047+50	117.0' RT
TOE OF SLOPE	1048+00	123.2' RT
TOE OF SLOPE	1049+00	6.3' RT
0.0' RT	1050+50	90.4' RT
94.0' LT	1051+00	120.6' RT
TOE OF SLOPE	1051+50	129.1' RT
50.9' LT	1056+00	TOE OF SLOPE
48.2' LT	1056+50	TOE OF SLOPE
42.4' LT	1057+00	TOE OF SLOPE
37.8' LT	1057+50	TOE OF SLOPE

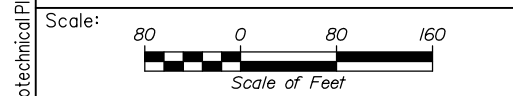
2 STAGE EMBANKMENT;  
5' WICK DRAIN SPACING

1 STAGE EMBANKMENT;  
6' WICK DRAIN SPACING

1 STAGE EMBANKMENT;  
5' WICK DRAIN SPACING

- NOTES:**
- WICK DRAIN LIMITS TABULATED ABOVE PERTAIN TO STATIONS WHERE WICKS ARE ONLY INSTALLED ACROSS PART OF EMBANKMENT FOOTPRINT. FOR ALL OTHER STATIONS NOT LISTED WICK DRAINS SHALL BE INSTALLED ACROSS ENTIRE EMBANKMENT FOOTPRINT.
  - RAMP D WICK DRAINS WILL NEED TO BE INSTALLED IN PHASES PER MOT TO MAINTAIN TRAFFIC ON RAMP.

**NOTES**  
1. SEE GEOTECHNICAL PLAN 1 FOR NOTES.



Designed by:

**HNTB**

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	BCS 07\19	Checked	JRS 07\19
Drawn	CRC 07\19	In Charge of	RAL 07\19



**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD  
GEOTECHNICAL PLAN 2**

CONTRACT:2019.13

SHEET NUMBER: GT-02

64 OF 173

Date: 7/26/2019

Filename: 00X\_Geotechnical Plan\_02.dgn



**SETTLEMENT PLATFORMS**

**DESIGNATION STATION OFFSET DISTANCE AND DIRECTION**

SPW-1	109+88	22' RT.
SPW-2	1+00	CENTERLINE
SPW-3*	112+75	5' LT.
SPW-4*	113+50	10' RT.
SPW-5	115+25	26' RT.
SPW-6*	117+00	26' RT.
SPW-7*	118+50	20' RT.
SPW-8*	1046+50	CENTERLINE
SPW-9*	1047+00	5' RT.
SPW-10*	1047+75	CENTERLINE
SPW-11*	1048+14	6' LT.
SPW-12	200+50	15' RT.
SPW-13	202+00	10' RT.
SPW-14	204+50	10' RT.
SPW-15	206+00	10' RT.
SPW-16	207+50	8' RT.
SPW-17	209+00	1' LT.

**PIEZOMETERS**

**DESIGNATION STATION OFFSET DISTANCE AND DIRECTION**

VWP-1	1047+00	5' RT.
VWP-2	1048+14	6' LT.
VWP-3	1048+81	CENTERLINE
VWP-4	204+50	10' RT.

**INCLINOMETERS**

**DESIGNATION STATION OFFSET DISTANCE AND DIRECTION**

INC-1	1045+25	CENTERLINE
INC-2	1047+50	152' RT.
INC-3	1048+50	128' LT.
INC-4	1048+81	CENTERLINE
INC-5	118+50	69' LT.
INC-6	202+00	101' RT.

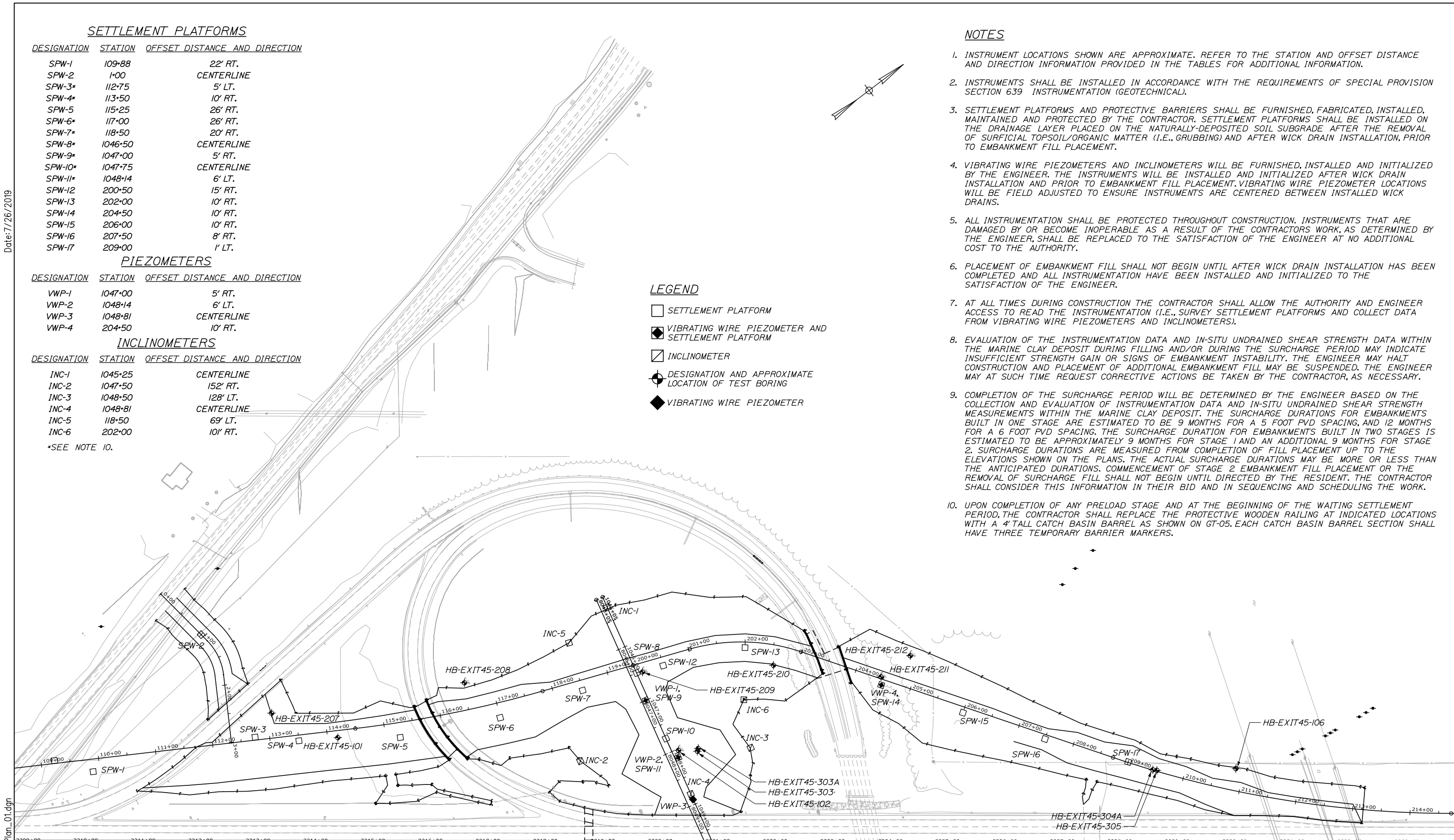
\*SEE NOTE 10.

**NOTES**

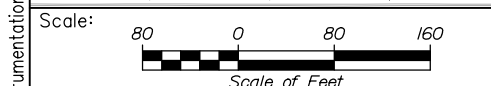
1. INSTRUMENT LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE STATION AND OFFSET DISTANCE AND DIRECTION INFORMATION PROVIDED IN THE TABLES FOR ADDITIONAL INFORMATION.
2. INSTRUMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION SECTION 639 INSTRUMENTATION (GEOTECHNICAL).
3. SETTLEMENT PLATFORMS AND PROTECTIVE BARRIERS SHALL BE FURNISHED, FABRICATED, INSTALLED, MAINTAINED AND PROTECTED BY THE CONTRACTOR. SETTLEMENT PLATFORMS SHALL BE INSTALLED ON THE DRAINAGE LAYER PLACED ON THE NATURALLY-DEPOSITED SOIL SUBGRADE AFTER THE REMOVAL OF SURFICIAL TOPSOIL/ORGANIC MATTER (I.E., GRUBBING) AND AFTER WICK DRAIN INSTALLATION, PRIOR TO EMBANKMENT FILL PLACEMENT.
4. VIBRATING WIRE PIEZOMETERS AND INCLINOMETERS WILL BE FURNISHED, INSTALLED AND INITIALIZED BY THE ENGINEER. THE INSTRUMENTS WILL BE INSTALLED AND INITIALIZED AFTER WICK DRAIN INSTALLATION AND PRIOR TO EMBANKMENT FILL PLACEMENT. VIBRATING WIRE PIEZOMETER LOCATIONS WILL BE FIELD ADJUSTED TO ENSURE INSTRUMENTS ARE CENTERED BETWEEN INSTALLED WICK DRAINS.
5. ALL INSTRUMENTATION SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. INSTRUMENTS THAT ARE DAMAGED BY OR BECOME INOPERABLE AS A RESULT OF THE CONTRACTORS WORK, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE AUTHORITY.
6. PLACEMENT OF EMBANKMENT FILL SHALL NOT BEGIN UNTIL AFTER WICK DRAIN INSTALLATION HAS BEEN COMPLETED AND ALL INSTRUMENTATION HAVE BEEN INSTALLED AND INITIALIZED TO THE SATISFACTION OF THE ENGINEER.
7. AT ALL TIMES DURING CONSTRUCTION THE CONTRACTOR SHALL ALLOW THE AUTHORITY AND ENGINEER ACCESS TO READ THE INSTRUMENTATION (I.E., SURVEY SETTLEMENT PLATFORMS AND COLLECT DATA FROM VIBRATING WIRE PIEZOMETERS AND INCLINOMETERS).
8. EVALUATION OF THE INSTRUMENTATION DATA AND IN-SITU UNDRAINED SHEAR STRENGTH DATA WITHIN THE MARINE CLAY DEPOSIT DURING FILLING AND/OR DURING THE SURCHARGE PERIOD MAY INDICATE INSUFFICIENT STRENGTH GAIN OR SIGNS OF EMBANKMENT INSTABILITY. THE ENGINEER MAY HALT CONSTRUCTION AND PLACEMENT OF ADDITIONAL EMBANKMENT FILL MAY BE SUSPENDED. THE ENGINEER MAY AT SUCH TIME REQUEST CORRECTIVE ACTIONS BE TAKEN BY THE CONTRACTOR, AS NECESSARY.
9. COMPLETION OF THE SURCHARGE PERIOD WILL BE DETERMINED BY THE ENGINEER BASED ON THE COLLECTION AND EVALUATION OF INSTRUMENTATION DATA AND IN-SITU UNDRAINED SHEAR STRENGTH MEASUREMENTS WITHIN THE MARINE CLAY DEPOSIT. THE SURCHARGE DURATIONS FOR EMBANKMENTS BUILT IN ONE STAGE ARE ESTIMATED TO BE 9 MONTHS FOR A 5 FOOT PVD SPACING, AND 12 MONTHS FOR A 6 FOOT PVD SPACING. THE SURCHARGE DURATION FOR EMBANKMENTS BUILT IN TWO STAGES IS ESTIMATED TO BE APPROXIMATELY 9 MONTHS FOR STAGE 1 AND AN ADDITIONAL 9 MONTHS FOR STAGE 2. SURCHARGE DURATIONS ARE MEASURED FROM COMPLETION OF FILL PLACEMENT UP TO THE ELEVATIONS SHOWN ON THE PLANS. THE ACTUAL SURCHARGE DURATIONS MAY BE MORE OR LESS THAN THE ANTICIPATED DURATIONS. COMMENCEMENT OF STAGE 2 EMBANKMENT FILL PLACEMENT OR THE REMOVAL OF SURCHARGE FILL SHALL NOT BEGIN UNTIL DIRECTED BY THE RESIDENT. THE CONTRACTOR SHALL CONSIDER THIS INFORMATION IN THEIR BID AND IN SEQUENCING AND SCHEDULING THE WORK.
10. UPON COMPLETION OF ANY PRELOAD STAGE AND AT THE BEGINNING OF THE WAITING SETTLEMENT PERIOD, THE CONTRACTOR SHALL REPLACE THE PROTECTIVE WOODEN RAILING AT INDICATED LOCATIONS WITH A 4' TALL CATCH BASIN BARREL AS SHOWN ON GT-05. EACH CATCH BASIN BARREL SECTION SHALL HAVE THREE TEMPORARY BARRIER MARKERS.

**LEGEND**

- SETTLEMENT PLATFORM
- ◆ VIBRATING WIRE PIEZOMETER AND SETTLEMENT PLATFORM
- ◻ INCLINOMETER
- ⊕ DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING
- ◆ VIBRATING WIRE PIEZOMETER



Filename: 00X-Instrumentation Plan\_01.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	BCS	07\19	Checked	BCS	07\19
Drawn	CRC	07\19	In Charge of	RAL	07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD  
INSTRUMENTATION PLAN 1

SHEET NUMBER: GT-03  
CONTRACT: 2019.13  
95 OF 173



**LEGEND**

- SETTLEMENT PLATFORM
- ◆ VIBRATING WIRE PIEZOMETER AND SETTLEMENT PLATFORM
- ▣ INCLINOMETER
- ⊕ DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING
- ◆ VIBRATING WIRE PIEZOMETER

**SETTLEMENT PLATFORMS**

DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
SPE-1	410+00	11' LT.
SPE-2	412+00	17' LT.
SPE-3*	452+50	9' RT.
SPE-4	414+00	5' LT.
SPE-5*	1051+32	CENTERLINE
SPE-6*	1051+75	CENTERLINE
SPE-7*	1052+64	CENTERLINE
SPE-8	1053+50	CENTERLINE
SPE-9	1055+00	CENTERLINE
SPE-10*	1057+00	16' RT.
SPE-11	351+00	10' RT.
SPE-12	301+50	CENTERLINE
SPE-13	303+50	8' LT.
SPE-14*	354+00	36' RT.
SPE-15*	308+00	23' LT.
SPE-16	309+50	3' RT.
SPE-17	310+50	3' RT.
SPE-18	311+00	25' LT.
SPE-19	312+00	23' LT.
SPE-20	317+06	12' LT.

\*SEE NOTE 10, SHEET GT-03

**PIEZOMETERS**

DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
VWP-5	1050+70	CENTERLINE
VWP-6	1051+32	CENTERLINE
VWP-7	1052+64	CENTERLINE
VWP-8	412+00	17' LT.
VWP-9	452+50	9' RT.
VWP-10	354+00	36' RT.
VWP-11	311+00	25' LT.
VWP-12	312+00	23' LT.

**INCLINOMETERS**

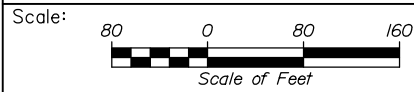
DESIGNATION	STATION	OFFSET DISTANCE AND DIRECTION
INC-7	1050+70	CENTERLINE
INC-8	1050+60	144' RT.
INC-9	1052+00	160' LT.
INC-10	353+50	66' LT.

**NOTES**

1. SEE INSTRUMENTATION PLAN 1 FOR ADDITIONAL NOTES.

Date: 7/26/2019

Filename: 00X\_Instrumentation Plan\_02.dgn



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 45  
 EMBANKMENT PRELOAD  
 INSTRUMENTATION PLAN 2**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	BCS	07\19	Checked
Drawn	CRC	07\19	In Charge of

	By	Date		By	Date
Designed	BCS	07\19	Checked	BCS	07\19
Drawn	CRC	07\19	In Charge of	RAL	07\19

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

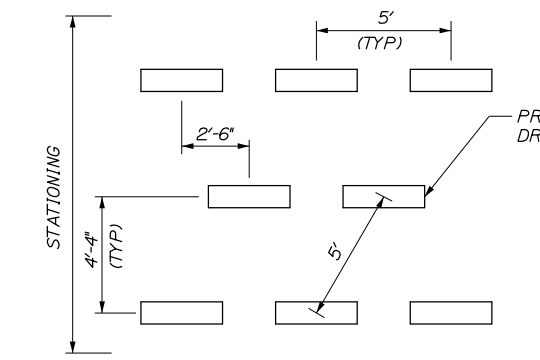
CONTRACT:2019.13

SHEET NUMBER: GT-04

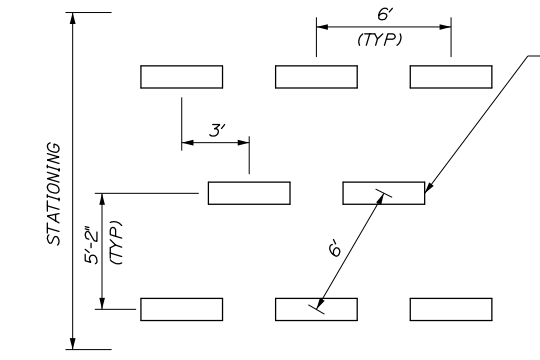
66 OF 173

Date: 7/26/2019

Filename: 00X\_Instrumentation\_Details.dgn



5 FT ON CENTER SPACING - TRIANGULAR ARRAY



6 FT ON CENTER SPACING - TRIANGULAR ARRAY

PREFABRICATED VERTICAL DRAIN (PVD) LAYOUT DETAIL

NOTES:

1. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED IN A TRIANGULAR ARRAY AT SPACINGS SHOWN IN THE DETAILS. THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE PREFABRICATED VERTICAL DRAINS ARE SHOWN IN THE PLANS.
2. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED THROUGH THE AGGREGATE SUBBASE COURSE - GRAVEL AND EXISTING FILL, WHERE PRESENT. DRAINS SHALL BE EXTENDED THROUGH THE UNDERLYING COMPRESSIBLE LAYERS TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF THE MARINE CLAY STRATUM, OR TO MANDREL REFUSAL BELOW THE MARINE CLAY, WHICHEVER IS SHALLOWER.

HORIZONTAL MEMBERS AND DIAGONAL BRACES 1"x4" SOUND LUMBER

CORNER POSTS 2"x3"x4'-6" SOUND LUMBER

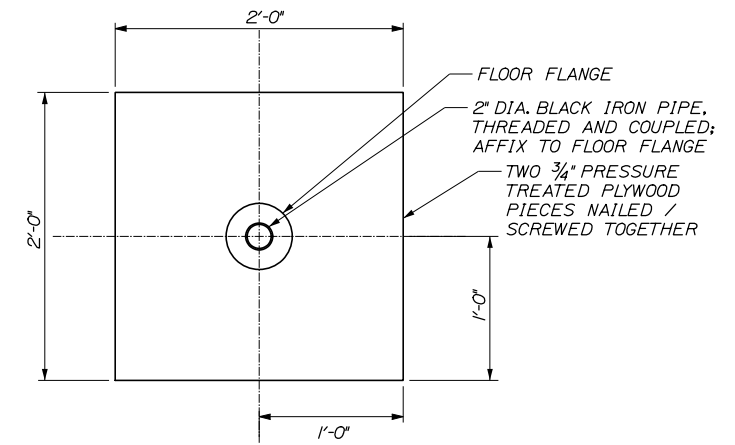
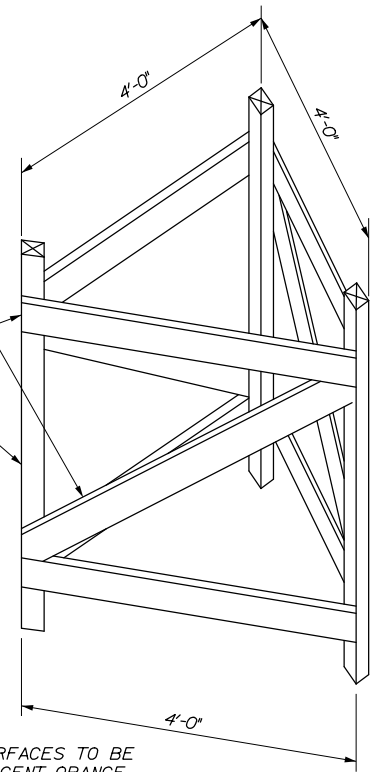
NOTE:  
ALL EXTERNAL SURFACES TO BE PAINTED FLUORESCENT ORANGE.

PROTECTIVE RAILING DETAIL FOR SETTLEMENT PLATFORMS AND INCLINOMETERS

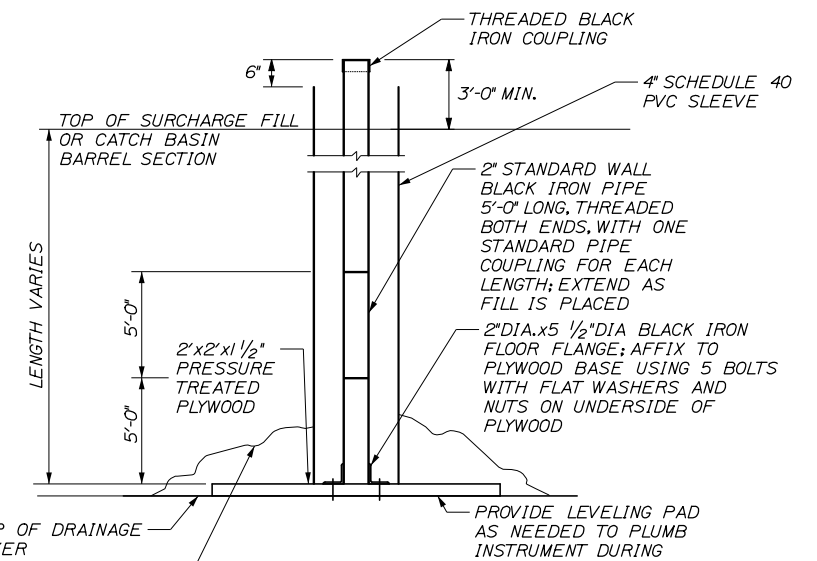
4' TALL CATCH BASIN BARREL SECTION (INCIDENTAL TO ITEM 639.26 - INSTRUMENTATION (GEOTECHNICAL))

SETTLEMENT PLATFORM

LONG TERM PROTECTION FOR SETTLEMENT PLATFORM



PLAN



ELEVATION

SETTLEMENT PLATFORM DETAIL

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
<b>HNTB</b>					
CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date		By	Date
Designed	BCS	07\19	Checked	BCS	07\19
Drawn	CRC	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

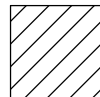
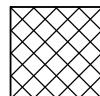
**EXIT 45  
EMBANKMENT PRELOAD  
INSTRUMENTATION DETAILS**

SHEET NUMBER: GT-05  
CONTRACT: 2019.13  
94 OF 173

Date: 7/26/2019

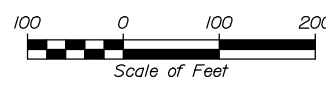


**LEGEND**

-  CONTRACT LIMIT OF DISTURBANCE (20.70 ACRES)
-  EXPECTED CONTRACTOR ACCESS LOCATIONS (2.42 ACRES)

**NOTES**

1. AN ADDITIONAL 1.0 ACRE HAS BEEN ESTIMATED FOR ADDITIONAL CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
2. 0.02 AC OF DISTURBANCE FOR UTILITY POLE INSTALLATION HAS BEEN ACCOUNTED FOR IN THE CONTRACT LIMIT OF DISTURBANCE.
3. TOTAL LIMIT OF DISTURBANCE FOR THIS PROJECT HAS BEEN ESTIMATED TO BE 24.12 ACRES.

Scale:  Scale of Feet

No.	Revision	By	Date


Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	EDD	07\19	In Charge of	RAL	07\19

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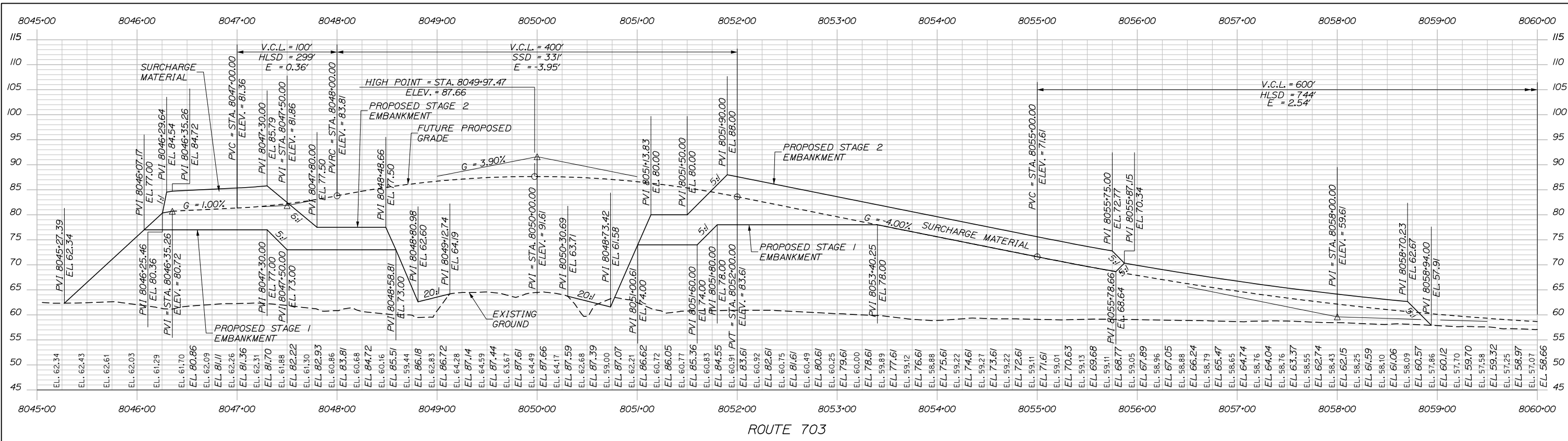
**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

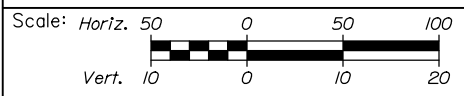
EXIT 45  
EMBANKMENT PRELOAD  
LIMIT OF DISTURBANCE PLAN

SHEET NUMBER: LD-01  
CONTRACT: 2019.13  
8 OF 173

Date: 7/26/2019



**NOTE**  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
 PROPOSED GRADE AND SURCHARGE ELEVATIONS  
 ARE PROVIDED ON CROSS SECTIONS.



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

**EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - ROUTE 703**

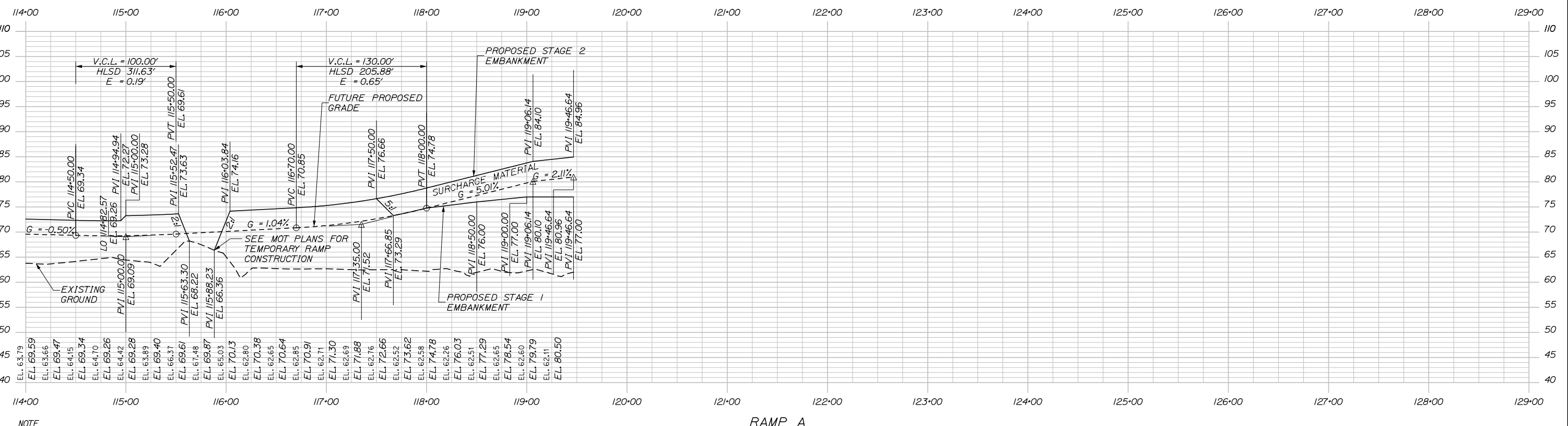
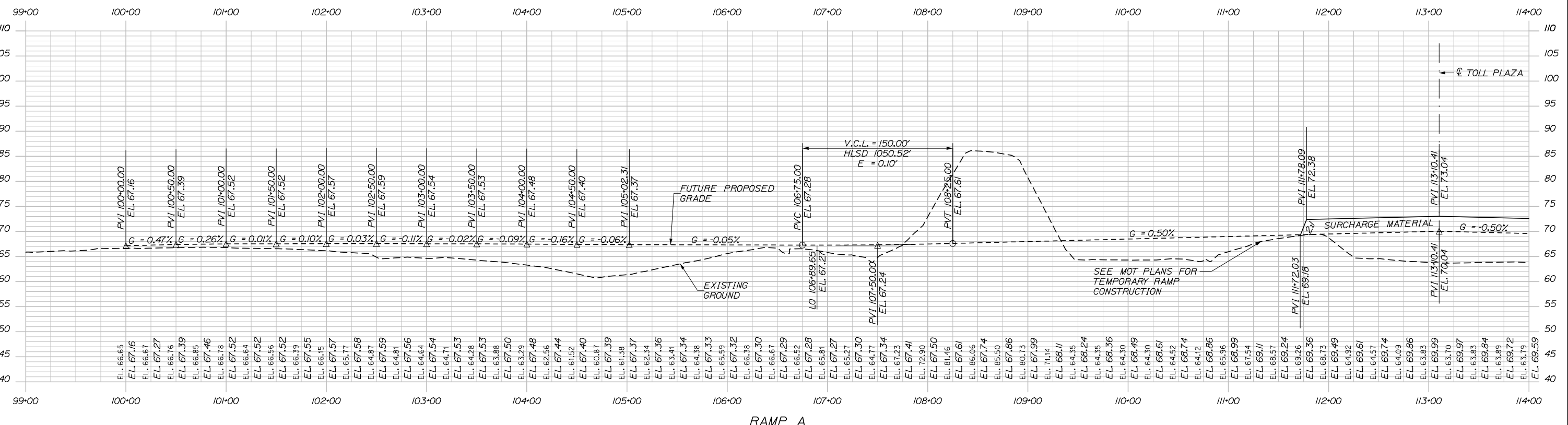
CONTRACT: 2019.13

SHEET NUMBER: PR-01

69 OF 173

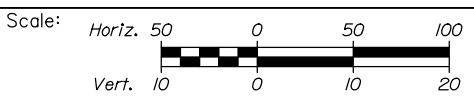
Filename: 0XX\_Profile\_Diamond.dgn

Date: 7/26/2019



NOTE  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
 PROPOSED GRADE AND SURCHARGE ELEVATIONS  
 ARE PROVIDED ON CROSS SECTIONS.

Filename: 0XX\_Profile\_SB\_On.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

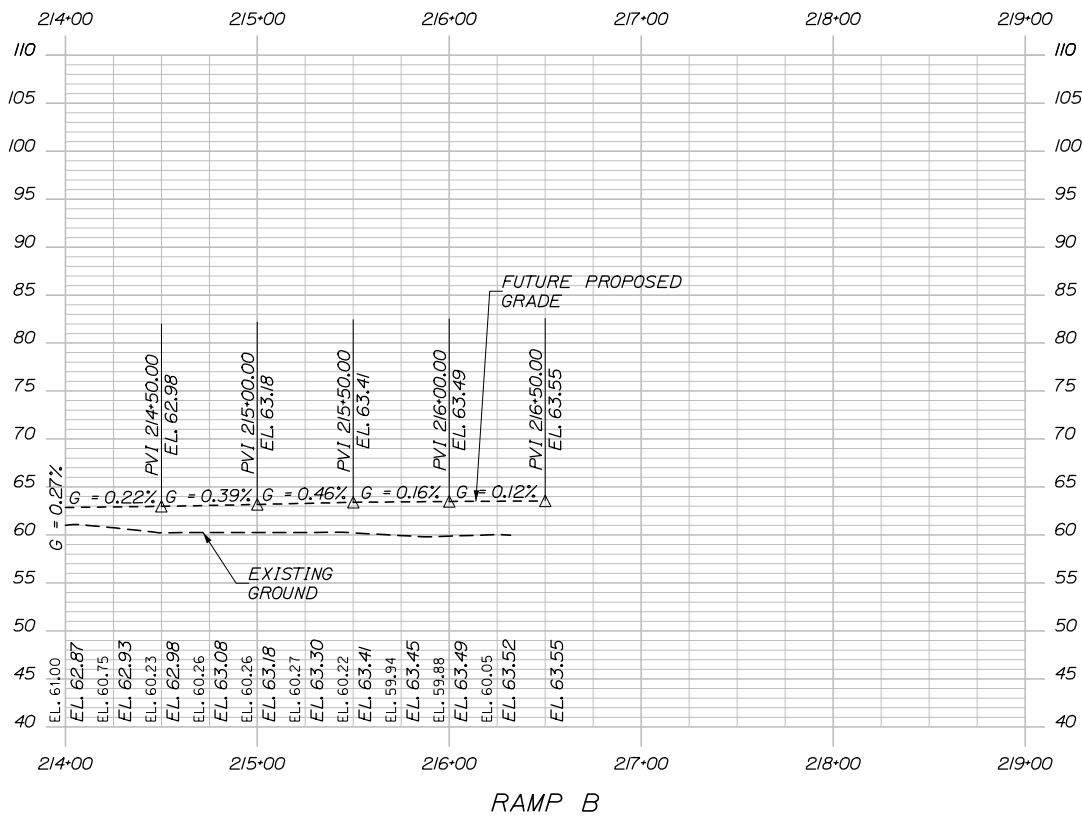
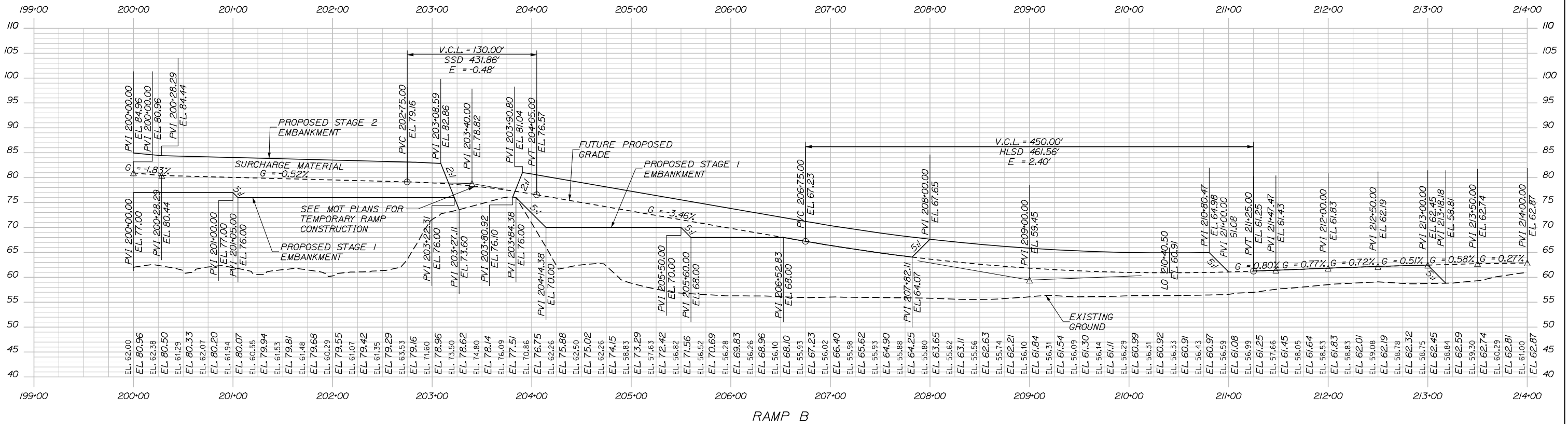
**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - RAMP A

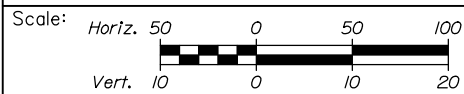
SHEET NUMBER: PR-02  
 CONTRACT: 2019.13  
 70 OF 173

Date: 7/26/2019



NOTE  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
 PROPOSED GRADE AND SURCHARGE ELEVATIONS  
 ARE PROVIDED ON CROSS SECTIONS.

Filename: 0XX\_Profile\_SB\_Off.dgn



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	EDD	07\19	JRH
Drawn	By	Date	In Charge of
	AJS	07\19	RAL

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THE GOLD STAR  
 MEMORIAL HIGHWAY

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

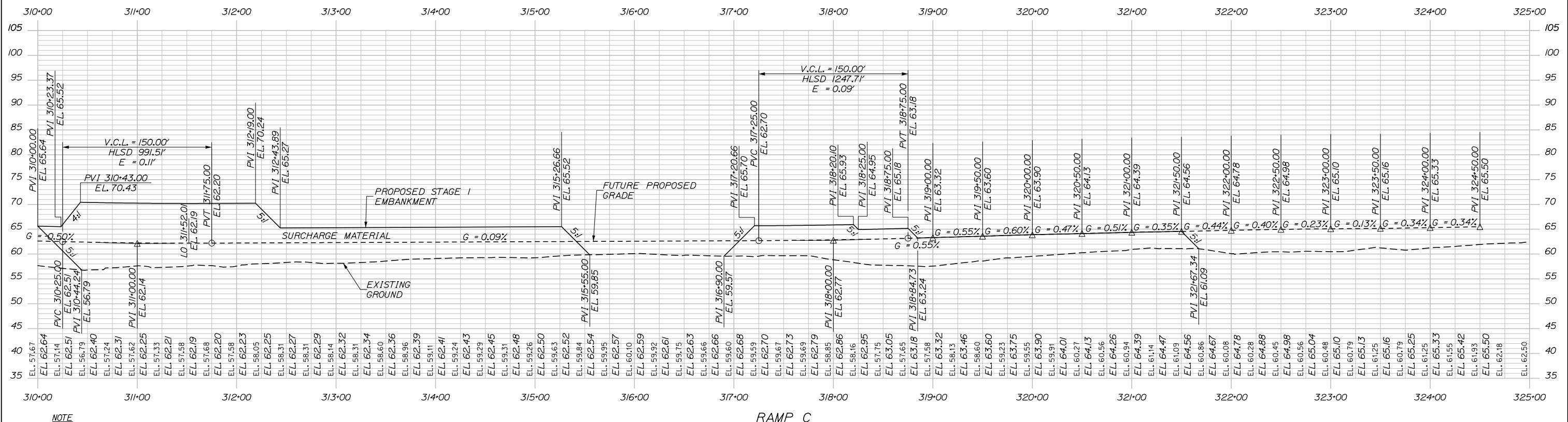
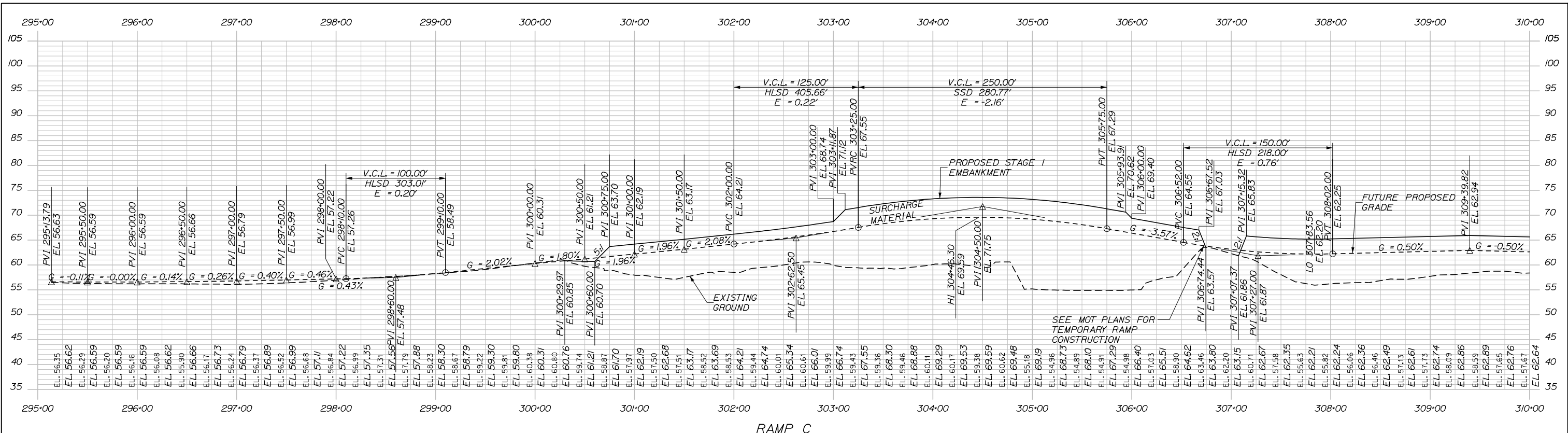
EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - RAMP B

CONTRACT: 2019.13

SHEET NUMBER: PR-03

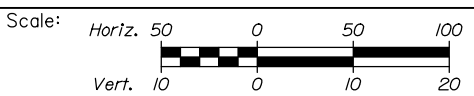
71 OF 173

Date: 7/26/2019



NOTE  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
 PROPOSED GRADE AND SURCHARGE ELEVATIONS  
 ARE PROVIDED ON CROSS SECTIONS.

Filename: 0XX\_Profile\_NB\_On.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
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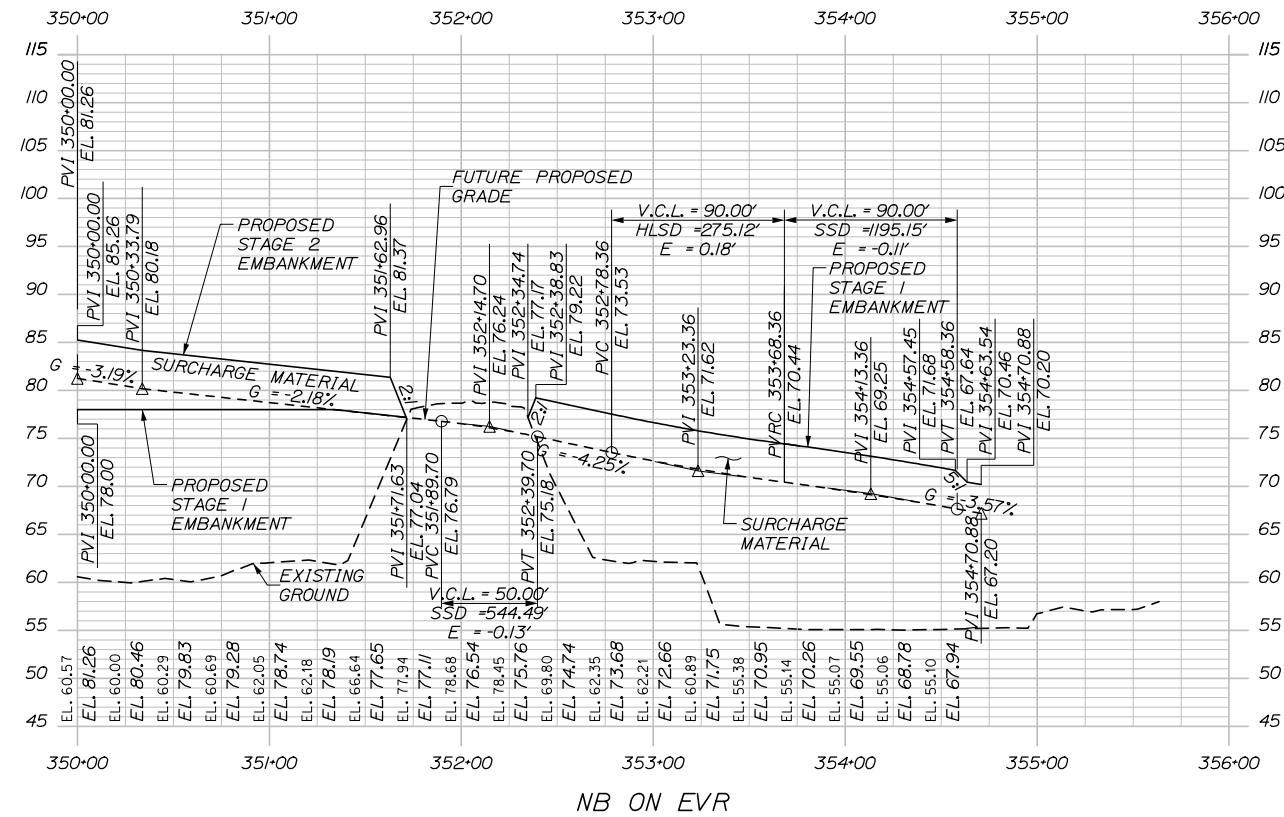
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

EXIT 45  
 INTERCHANGE RECONFIGURATION  
 PROFILE - RAMP C

SHEET NUMBER: PR-04  
 CONTRACT: 2019.13  
 72 OF 173





**NOTE**  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
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No.	Revision	By	Date

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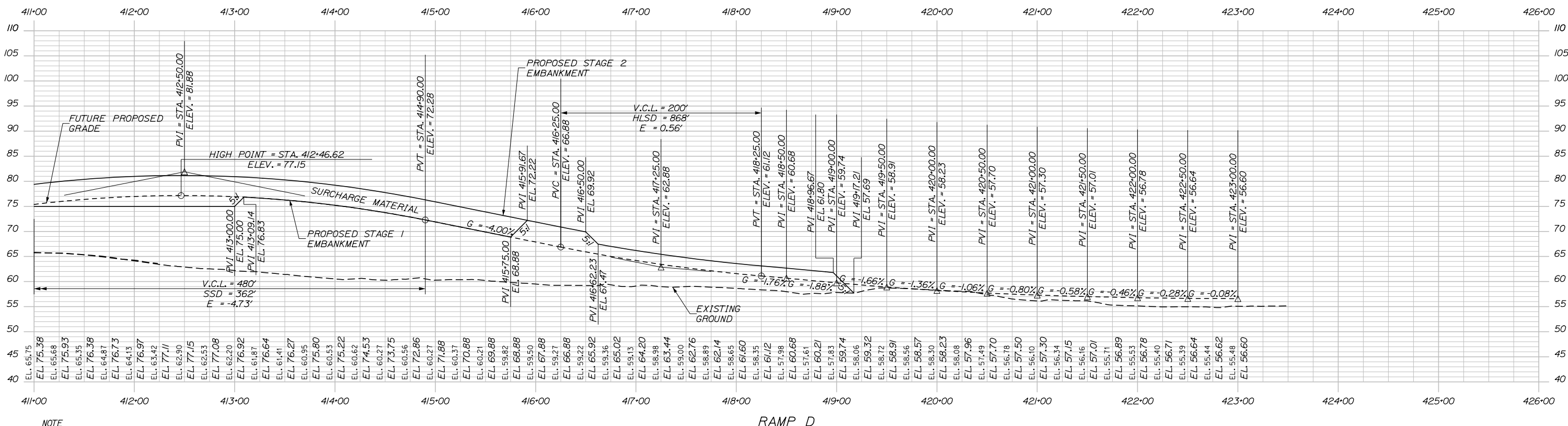
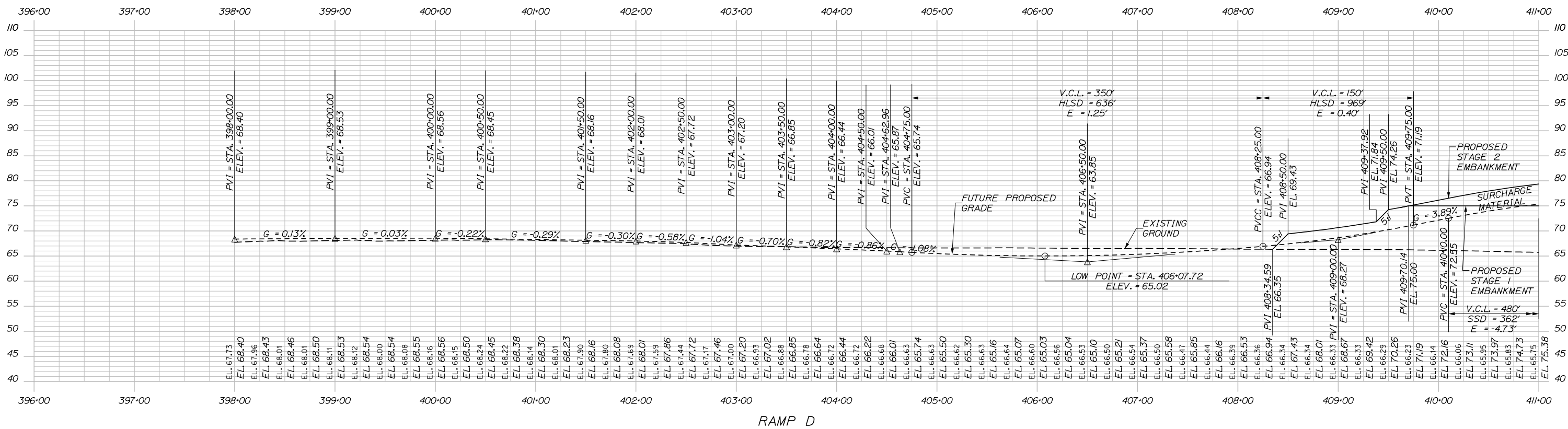
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

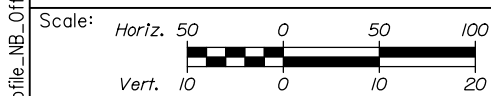
EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - NB ON EVR

SHEET NUMBER: PR-05  
 CONTRACT: 2019.13  
 73 OF 173

Date: 7/26/2019



NOTE  
 PROPOSED ELEVATIONS ARE FOR FUTURE  
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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - RAMP D

Filename: 0XX\_Profile\_NB\_Off.dgn

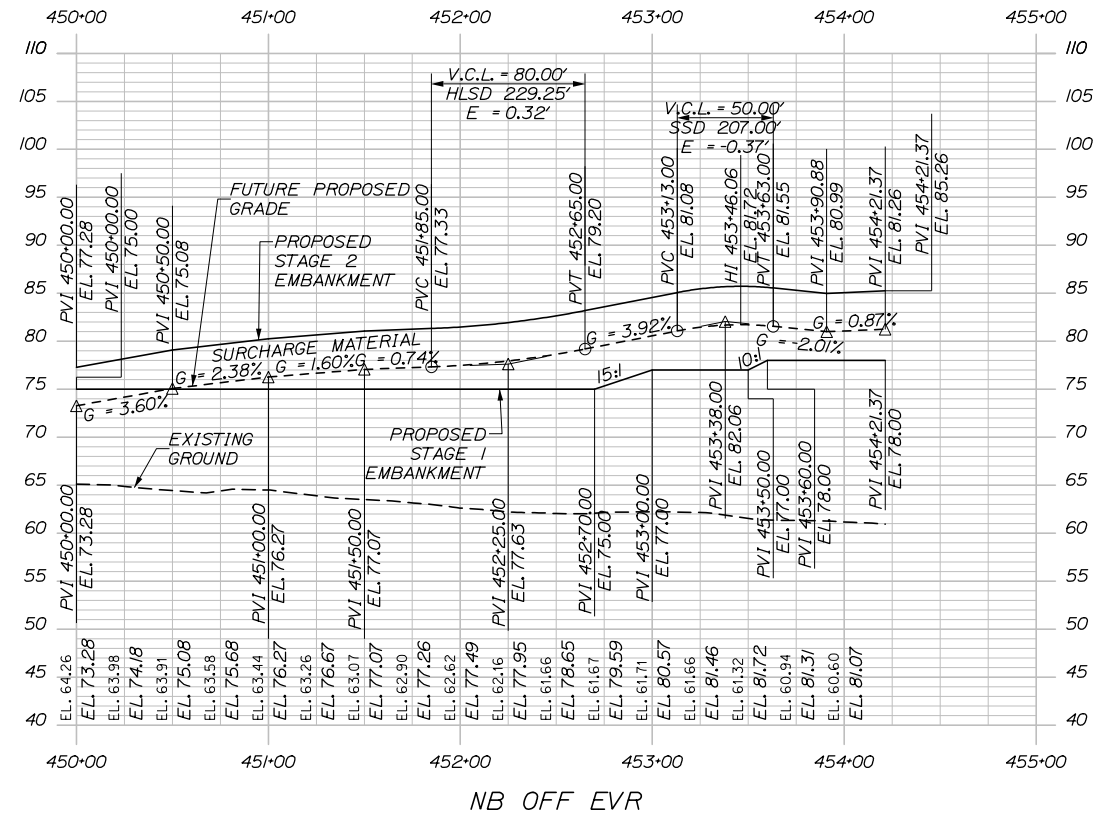
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: PR-06

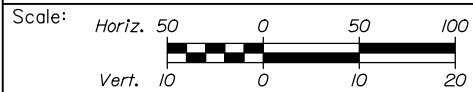
74 OF 173

Date: 7/26/2019



NB OFF EVR

**NOTE**  
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 PROPOSED GRADE AND SURCHARGE ELEVATIONS  
 ARE PROVIDED ON CROSS SECTIONS.



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

**EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - NB OFF EVR**

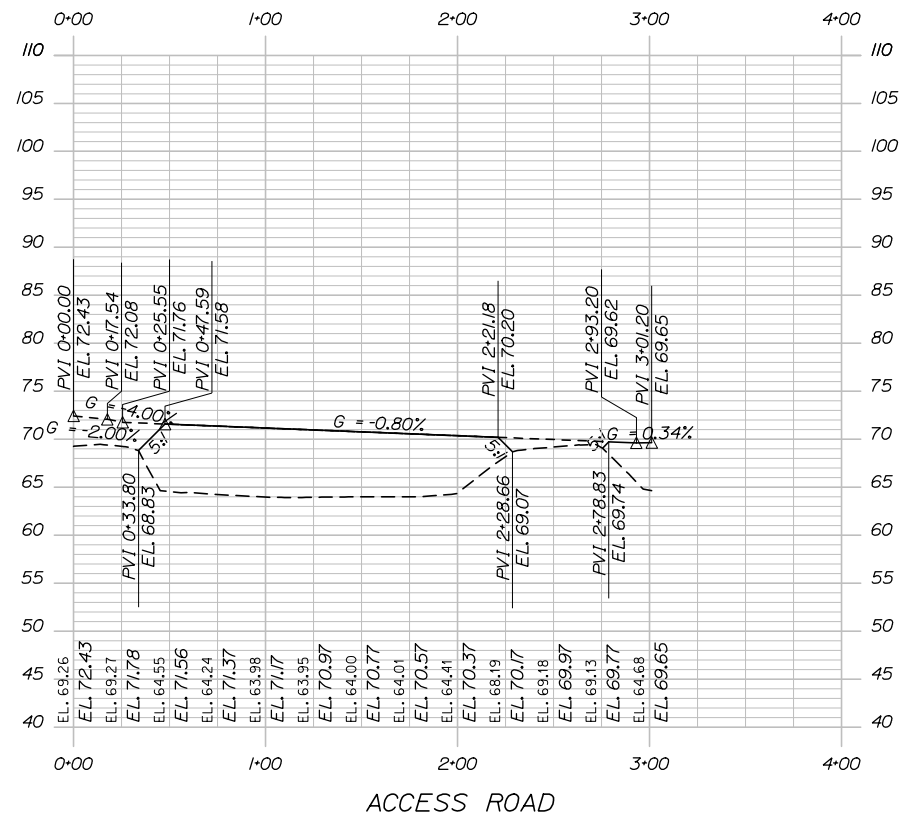
CONTRACT: 2019.13

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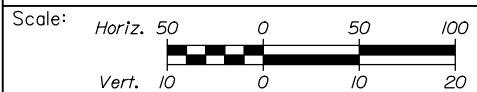
75 OF 173

Filename: 0XX\_Profile\_NB\_Off\_Stub.dgn

Date: 7/26/2019



**NOTE**  
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No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
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**THE GOLD STAR  
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 PROFILE - ACCESS ROAD

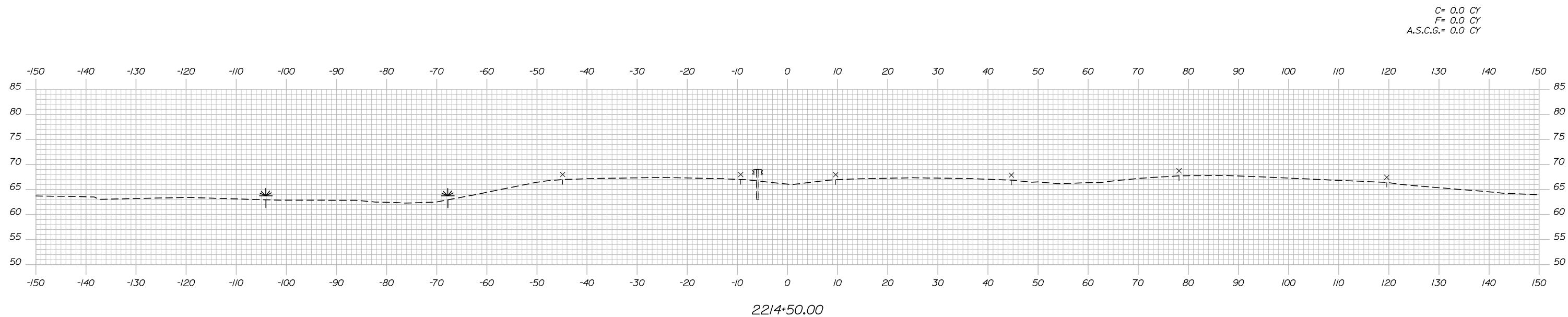
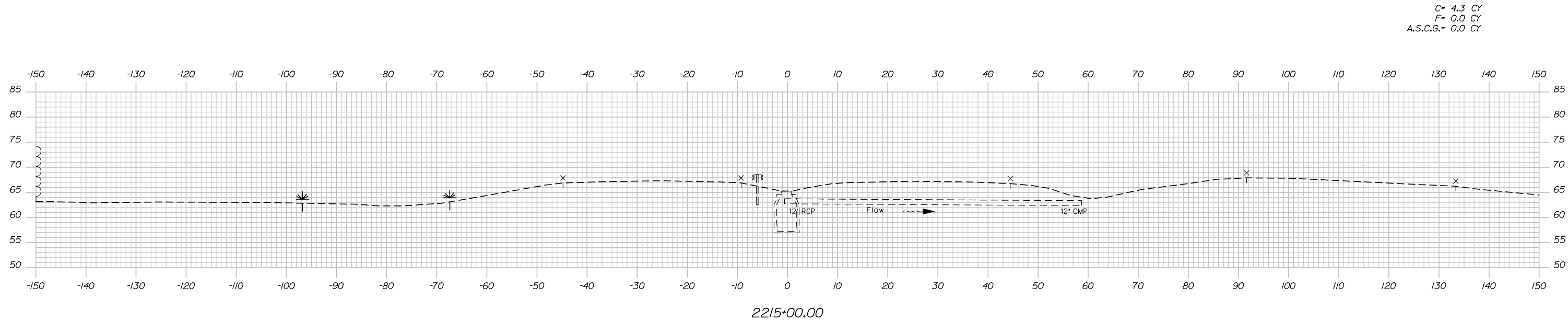
CONTRACT: 2019.13

SHEET NUMBER: PR-08

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Filename: 0XX\_Profile\_Access\_Road.dgn

Date: 7/26/2019



Scale:

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD**

MAINE TURNPIKE CROSS SECTIONS  
STA. 2214+50 TO STA. 2215+00

SHEET NUMBER: XS-01

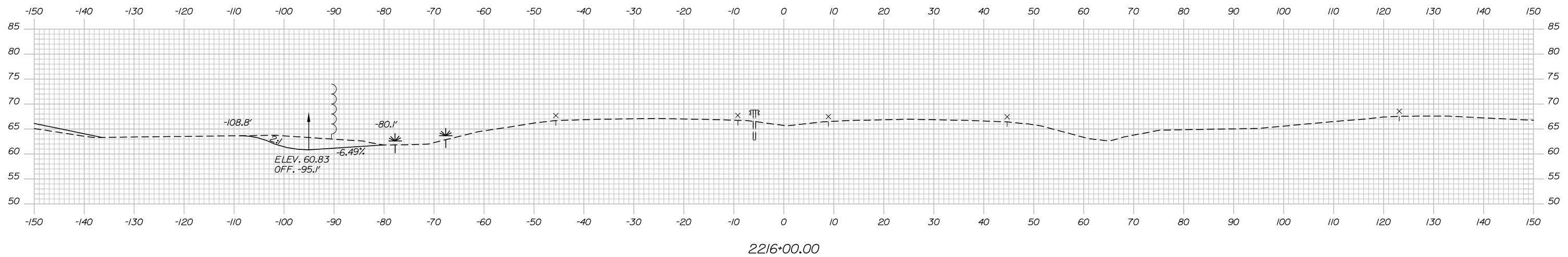
CONTRACT: 2019.13

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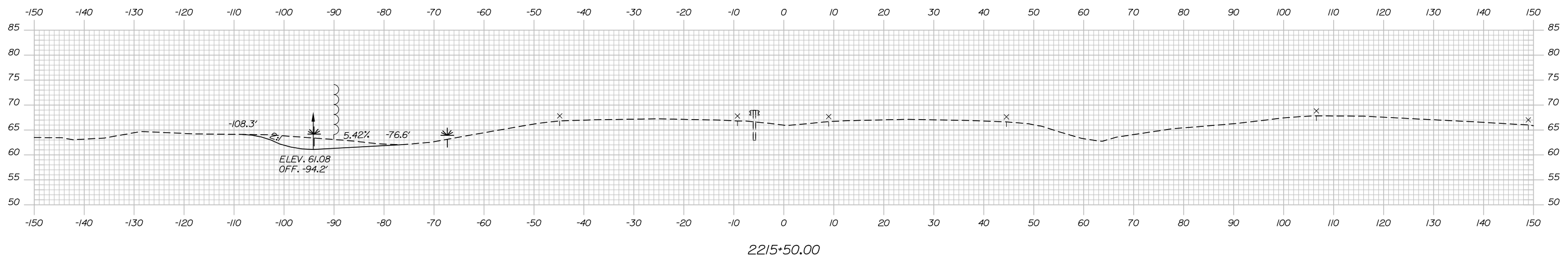
Date: 7/26/2019

STA 2216+35.59, 98.56' LT.  
 TO STA 2217+29.38, 78.11' LT.  
 INSTALL 96" X 15" CULVERT PIPE OPT III WITH 22.5" ELBOW  
 15" INLET EL = 60.40

C= 27.7 CY  
 F= 0.0 CY  
 A.S.C.G.= 0.0 CY



C= 30.0 CY  
 F= 0.0 CY  
 A.S.C.G.= 0.0 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

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

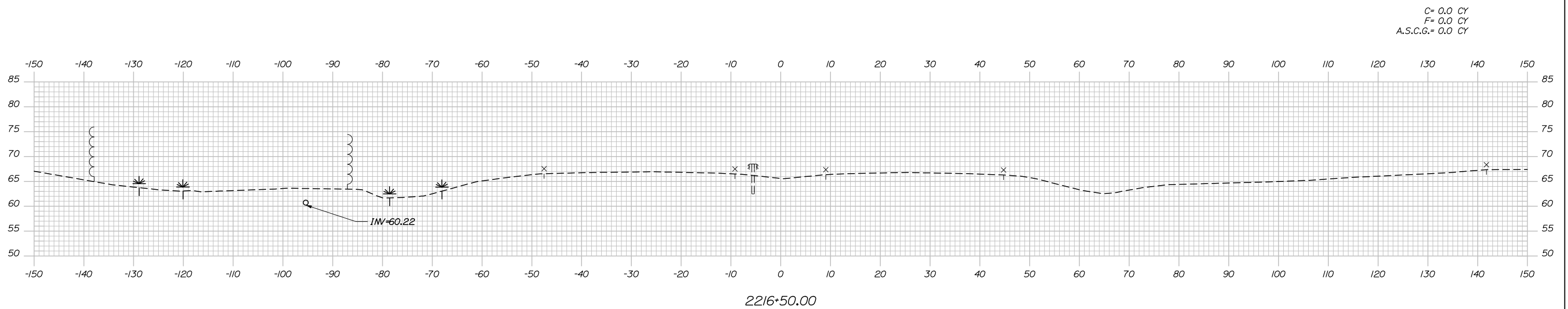
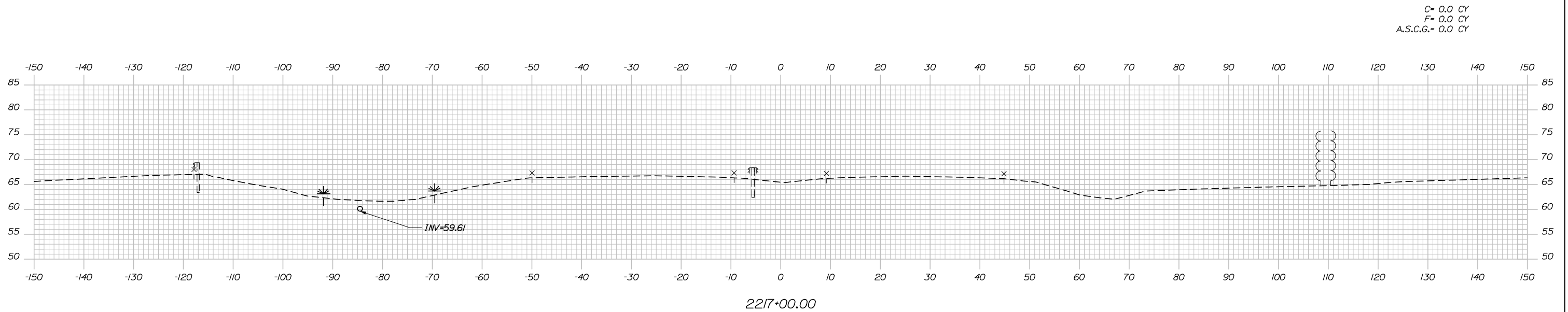
EXIT 45  
 EMBANKMENT PRELOAD  
 MAINE TURNPIKE CROSS SECTIONS  
 STA. 2215+50 TO STA. 2216+00

SHEET NUMBER: XS-02

CONTRACT: 2019.13

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Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD

MAINE TURNPIKE CROSS SECTIONS  
STA. 2216+50 TO STA. 2217+00

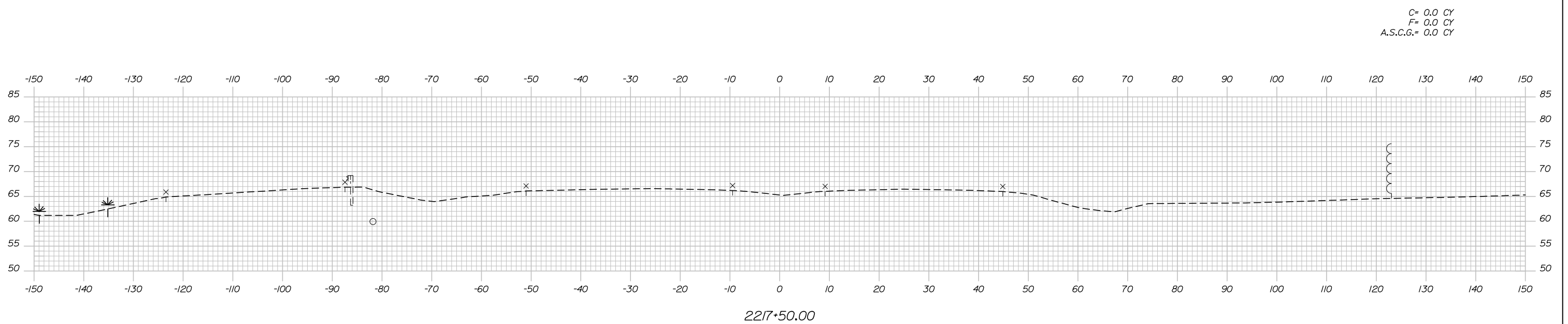
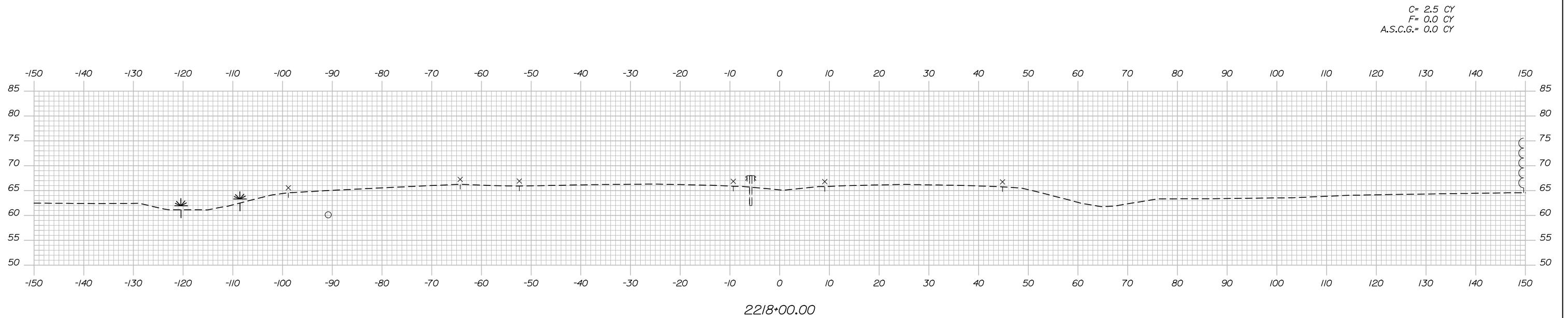
SHEET NUMBER: XS-03

CONTRACT: 2019.13

79 OF 173

Filename: Xsect - Mainline.dgn

Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

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

EXIT 45  
EMBANKMENT PRELOAD

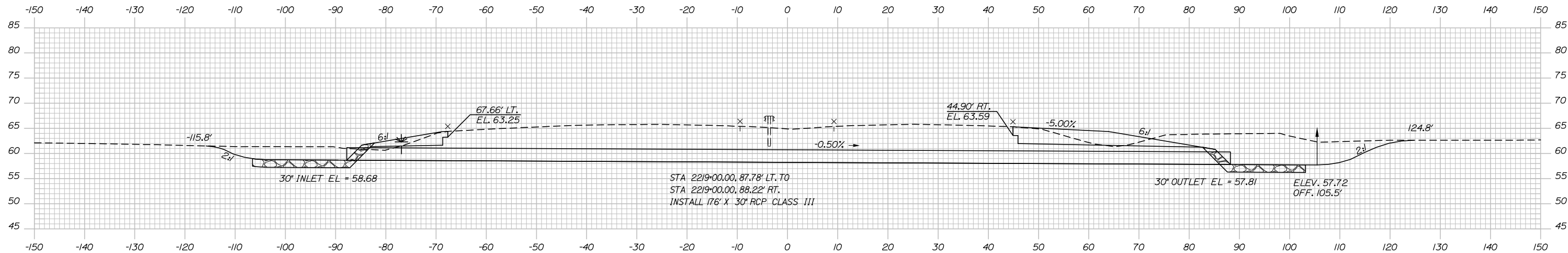
MAINE TURNPIKE CROSS SECTIONS  
 STA. 2217+50 TO STA. 2218+00

SHEET NUMBER: XS-04

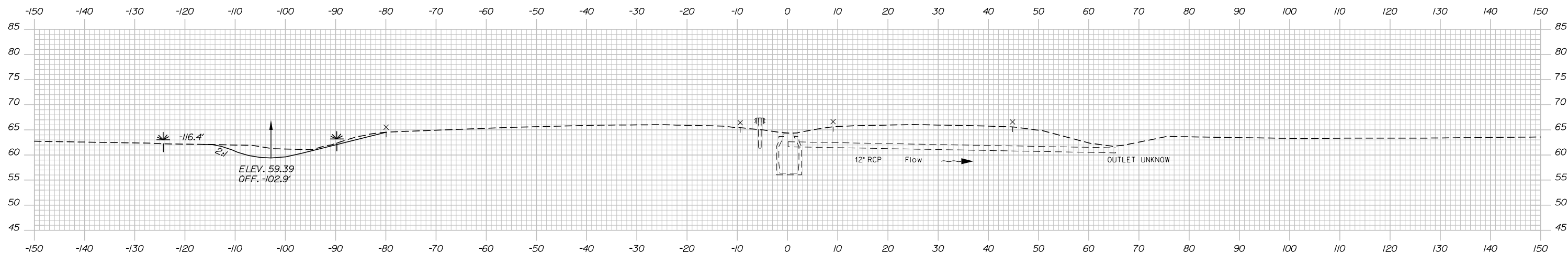
CONTRACT: 2019.13 80 OF 173



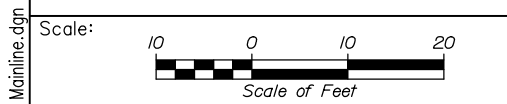
Date: 7/26/2019



2219+00.00



2218+50.00



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

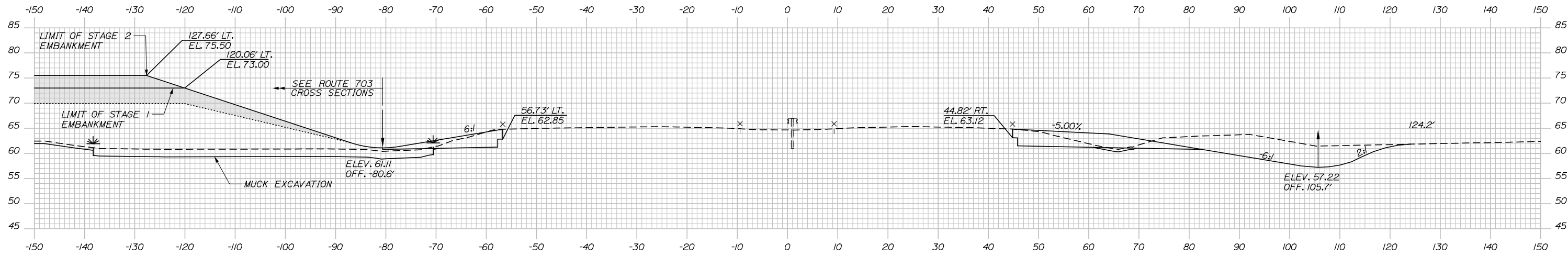
EXIT 45  
 EMBANKMENT PRELOAD  
 MAINE TURNPIKE CROSS SECTIONS  
 STA. 2218+50 TO STA. 2219+00

SHEET NUMBER: XS-05  
 CONTRACT: 2019.13  
 81 OF 173

Filename: Xsect - Mainline.dgn

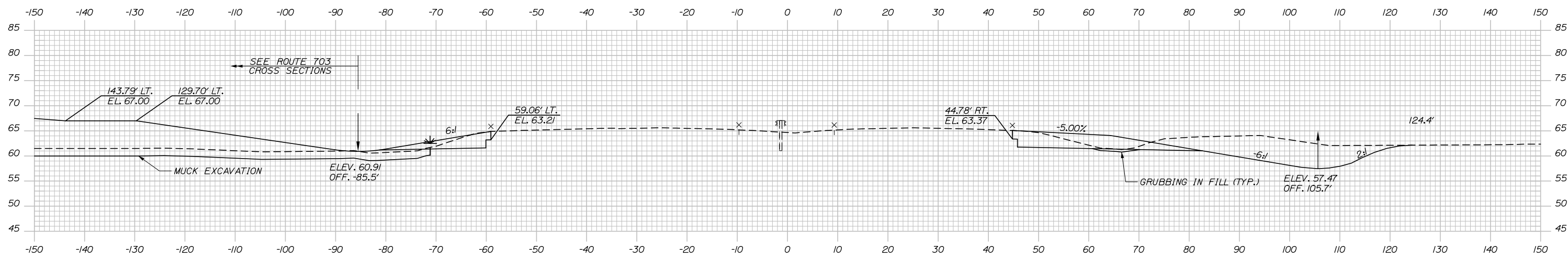
Date: 7/26/2019

C= 330.3 CY  
 F= 13.6 CY  
 A.S.C.G.= 246.8 CY

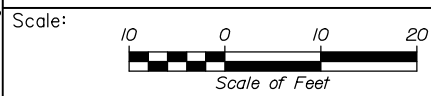


2220+00.00

C= 348.0 CY  
 F= 6.2 CY  
 A.S.C.G.= 196.8 CY



2219+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 MAINE TURNPIKE CROSS SECTIONS  
 STA. 2219+50 TO STA. 2220+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	EDD	07\19	JRH
Drawn	By	Date	In Charge of
	AJS	07\19	RAL

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

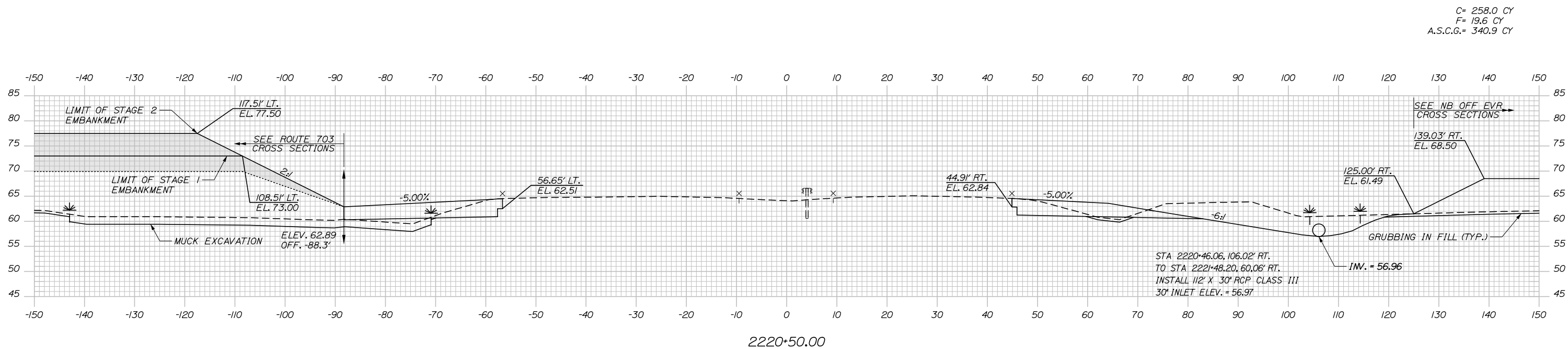
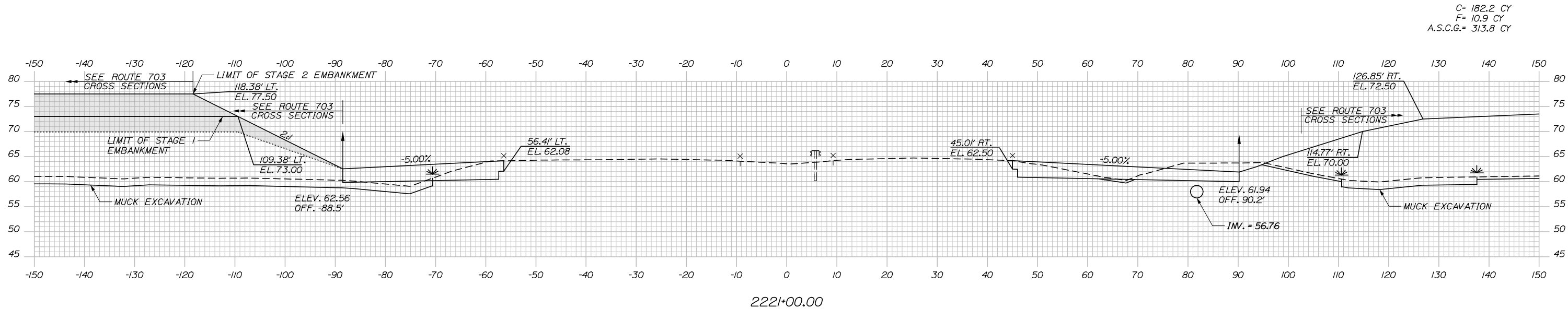
CONTRACT: 2019.13

SHEET NUMBER: XS-06

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Filename: Xsect - Mainline.dgn

Date: 7/26/2019



Scale:

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD**

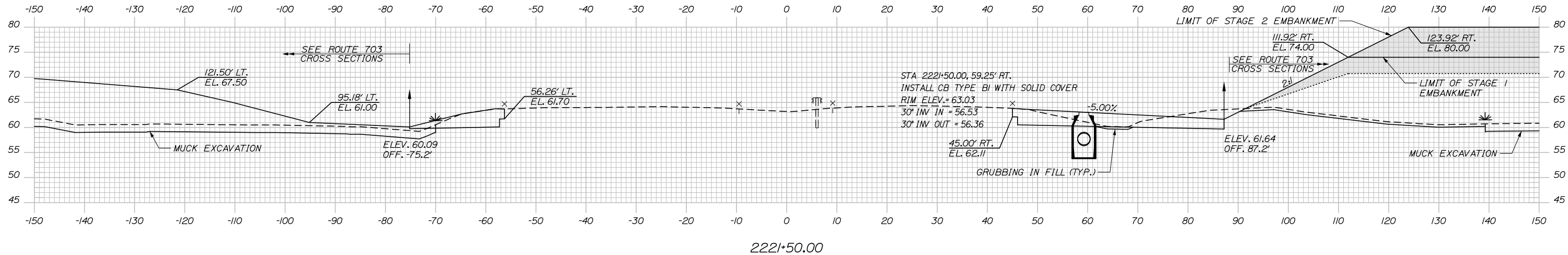
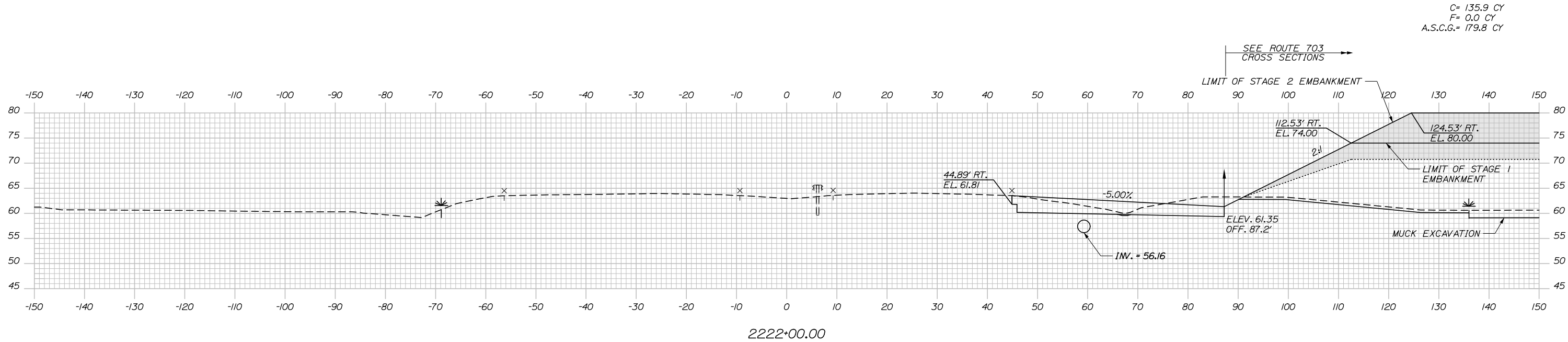
MAINE TURNPIKE CROSS SECTIONS  
 STA. 2220+50 TO STA. 2221+00

SHEET NUMBER: XS-07

CONTRACT: 2019.13

83 OF 173

Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

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

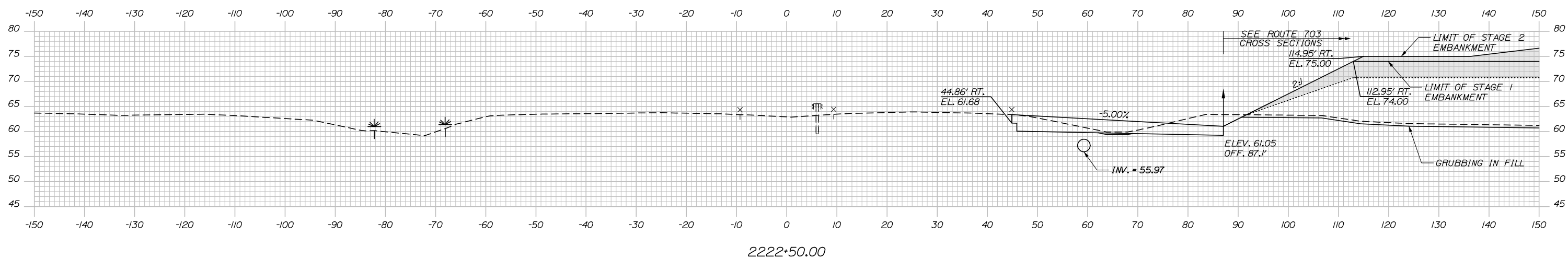
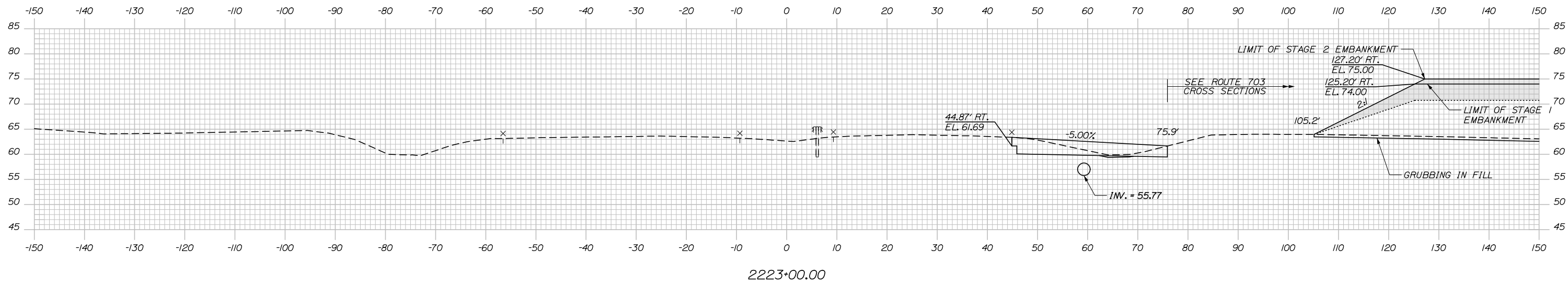
EXIT 45  
EMBANKMENT PRELOAD  
MAINE TURNPIKE CROSS SECTIONS  
STA. 2221+50 TO STA. 2222+00

SHEET NUMBER: XS-08

CONTRACT: 2019.13

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Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD**

MAINE TURNPIKE CROSS SECTIONS  
STA. 2222+50 TO STA. 2223+00

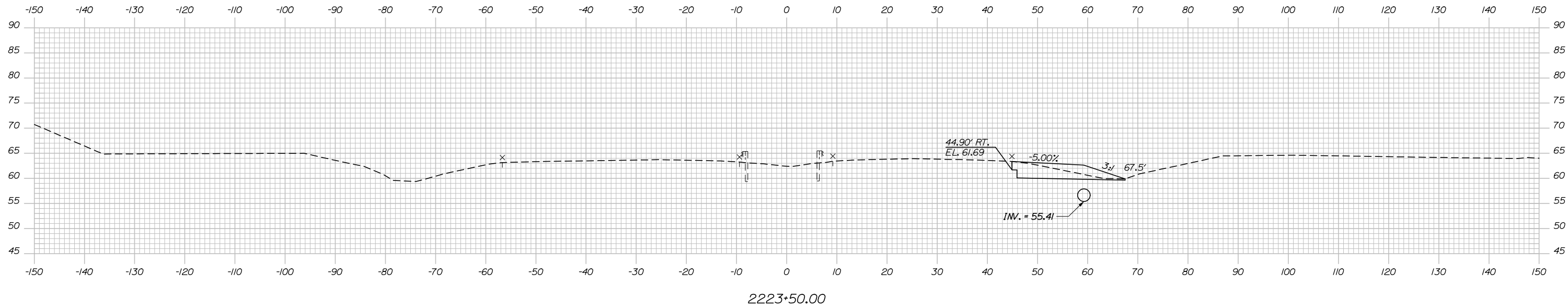
SHEET NUMBER: XS-09

CONTRACT: 2019.13

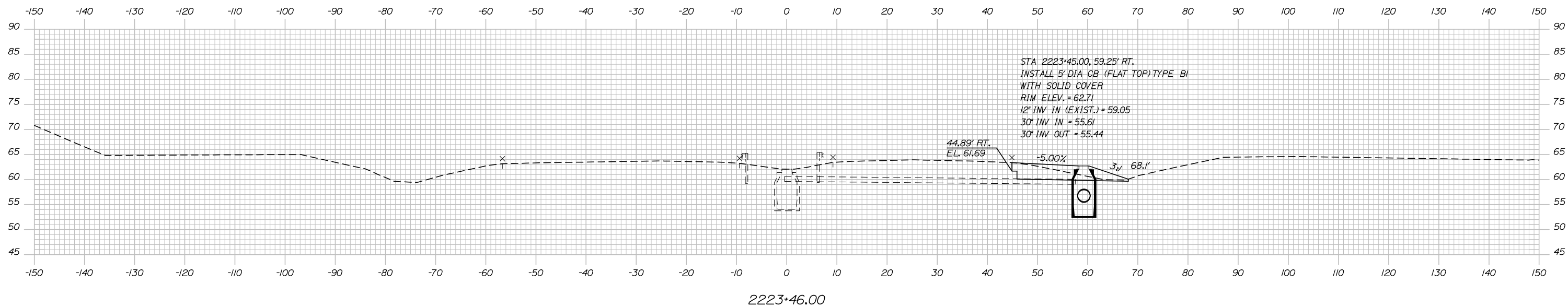
85 OF 173

Date: 7/26/2019

C = 24.1 CY  
 F = 0.0 CY  
 A.S.C.G. = 43.8 CY

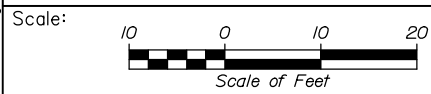


STA 2223+47.50, 59.25' RT.  
 TO STA 2224+48.00, 59.25' RT.  
 INSTALL 10" X 30" RCP CLASS III



STA 2223+45.00, 59.25' RT.  
 INSTALL 5' DIA CB (FLAT TOP) TYPE BI  
 WITH SOLID COVER  
 RIM ELEV. = 62.71  
 12" INV IN (EXIST.) = 59.05  
 30" INV IN = 55.61  
 30" INV OUT = 55.44

Filename: Xsect - Mainline.dgn



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 MAINE TURNPIKE CROSS SECTIONS  
 STA. 2223+46 TO STA. 2223+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	07\19	Checked
			JRH
			07\19
Drawn	AJS	07\19	In Charge of
			RAL
			07\19

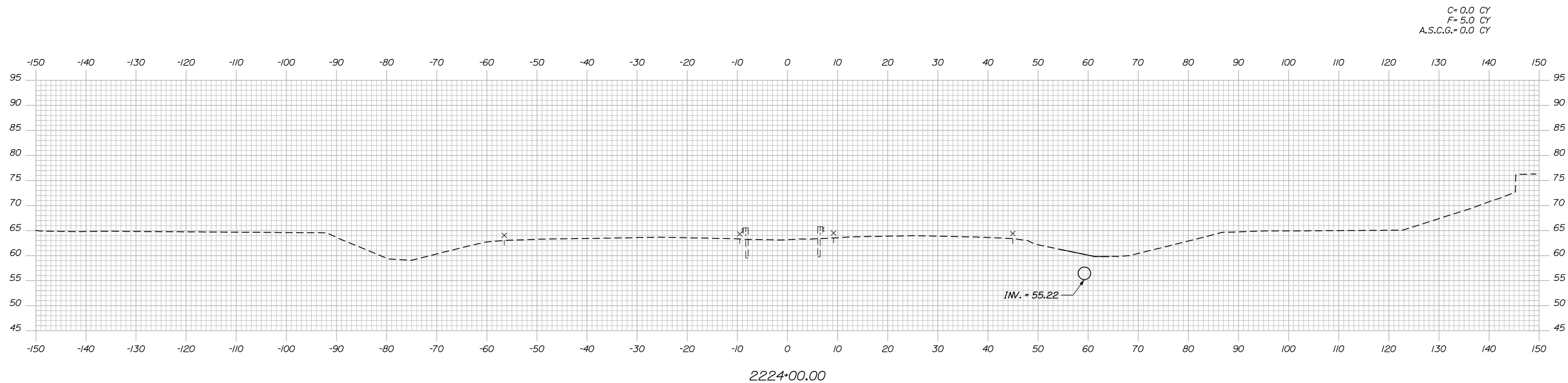
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: XS-10

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Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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

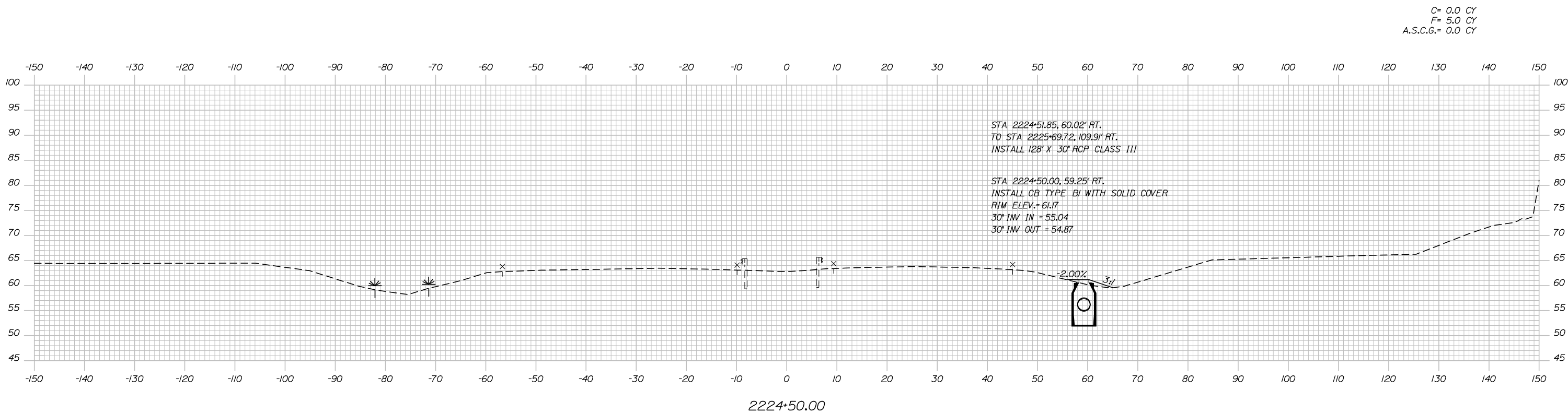
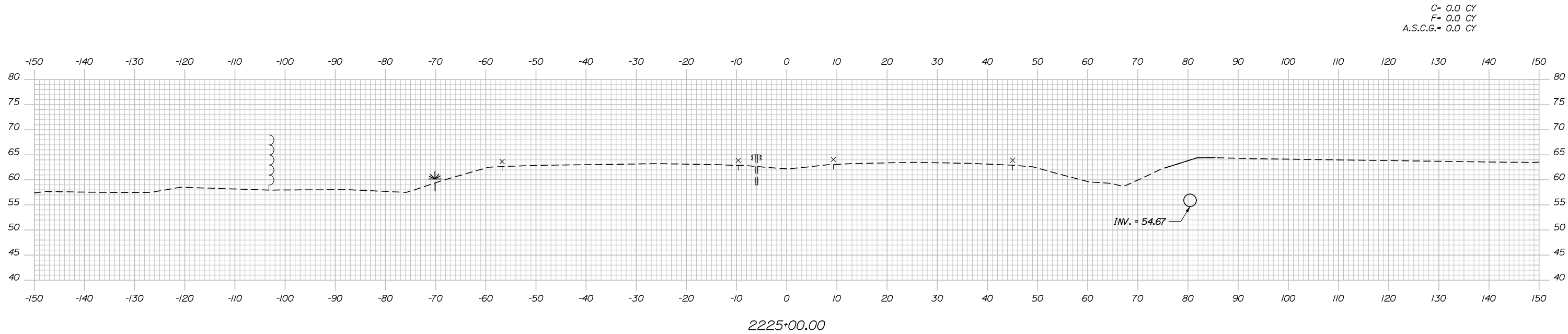
EXIT 45  
EMBANKMENT PRELOAD

MAINE TURNPIKE CROSS SECTIONS  
STA. 2223+75 TO STA. 2224+00

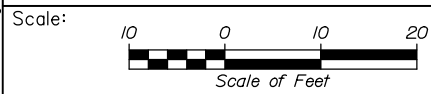
SHEET NUMBER: XS-11

CONTRACT: 2019.13 87 OF 173

Date: 7/26/2019



Filename: Xsect - Mainline.dgn



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EXIT 45  
EMBANKMENT PRELOAD  
MAINE TURNPIKE CROSS SECTIONS  
STA. 2224+50 TO STA. 2225+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By EDD	Date 07\19	Checked	By JRH	Date 07\19
Drawn	By AJA	Date 07\19	In Charge of	By RAL	Date 07\19

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

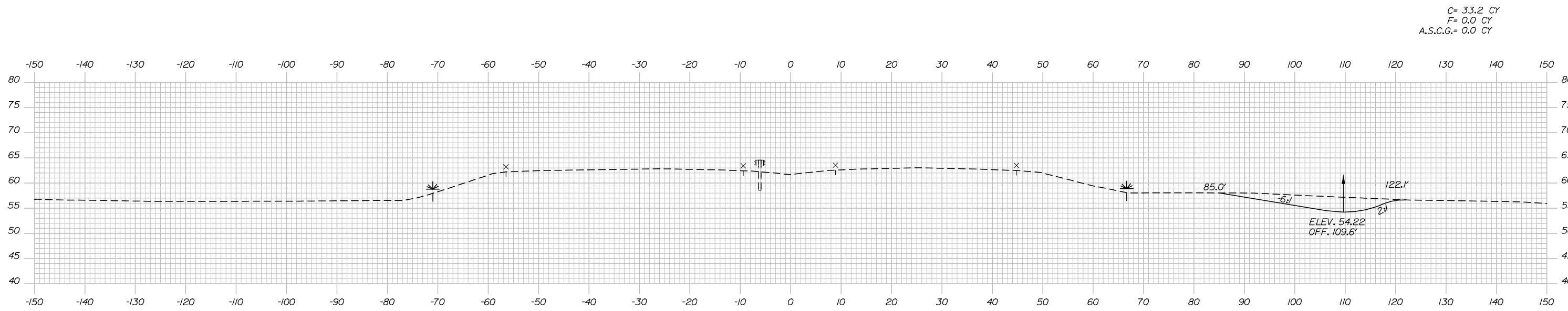
CONTRACT: 2019.13

SHEET NUMBER: XS-12

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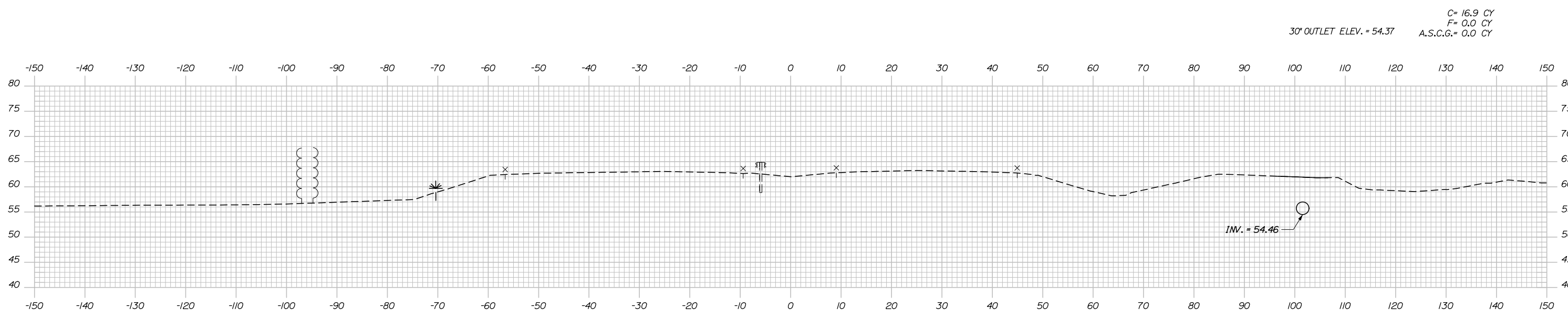


Date: 7/26/2019



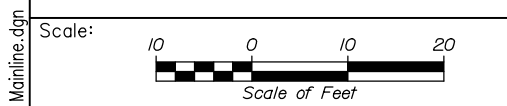
C= 33.2 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY

2226+00.00



C= 16.9 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY

2225+50.00



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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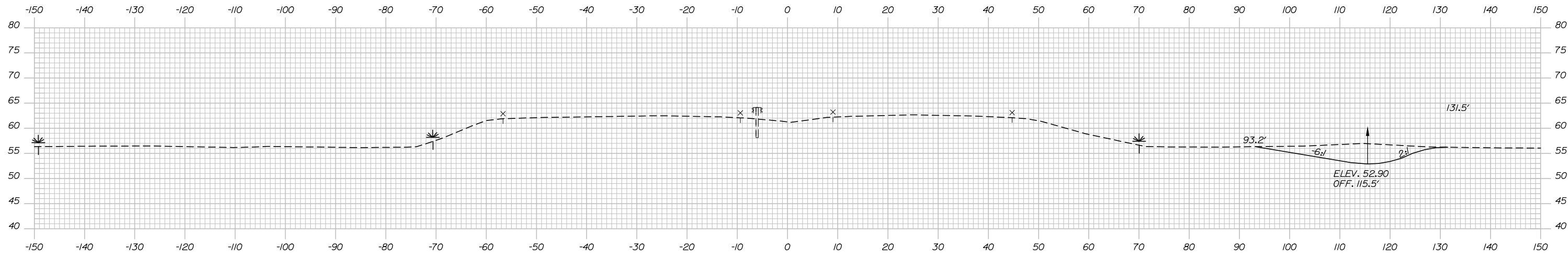
**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD**  
MAINE TURNPIKE CROSS SECTIONS  
STA. 2225+50 TO STA. 2226+00  
SHEET NUMBER: XS-13  
CONTRACT: 2019.13  
89 OF 173

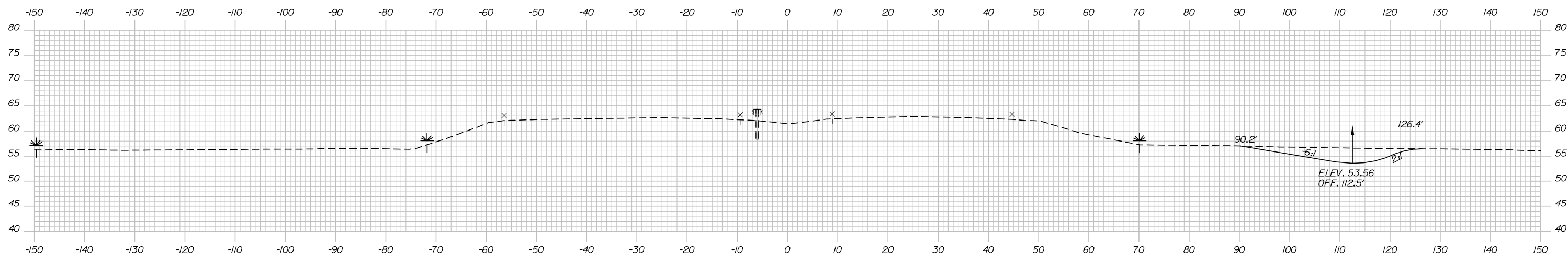
Filename: Xsect - Mainline.dgn

Date: 7/26/2019



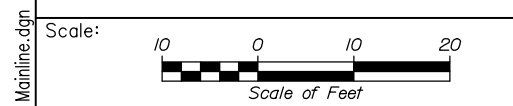
C= 77.3 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY

2227+00.00



C= 47.5 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY

2226+50.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**EXIT 45  
EMBANKMENT PRELOAD**

MAINE TURNPIKE CROSS SECTIONS  
STA. 2226+50 TO STA. 2227+00

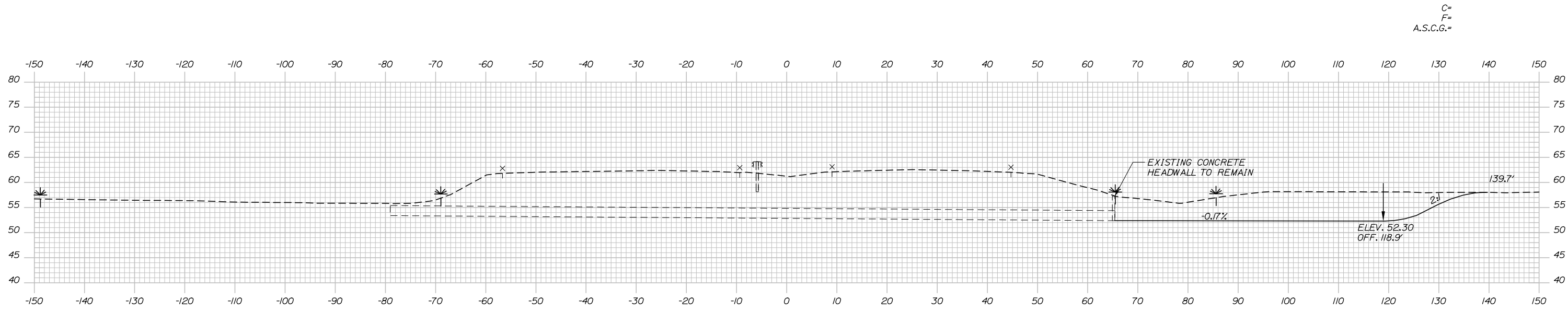
SHEET NUMBER: XS-14

CONTRACT: 2019.13

90 OF 173

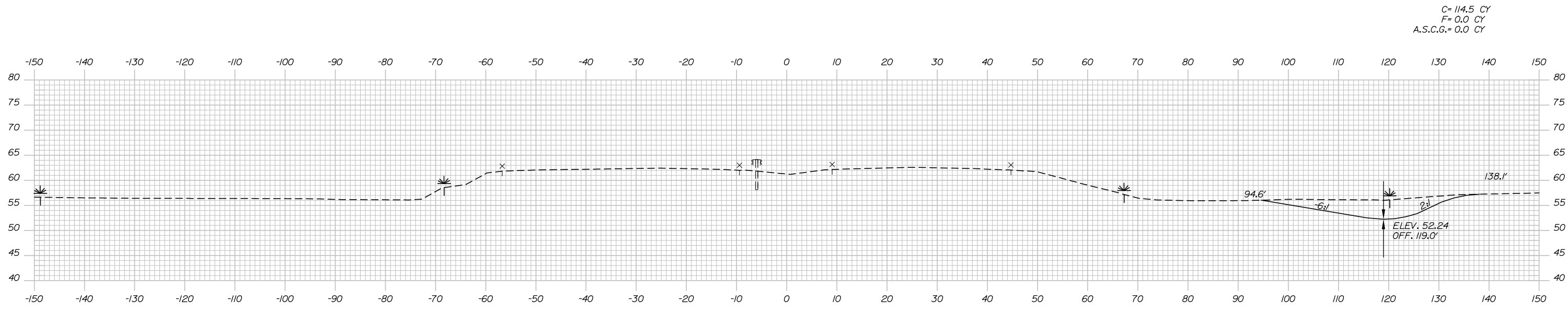
Filename: Xsect - Mainline.dgn

Date: 7/26/2019



C=  
F=  
A.S.C.G.=

2227+62.48 (SKEWED)



C= 114.5 CY  
F= 0.0 CY  
A.S.C.G.= 0.0 CY

2227+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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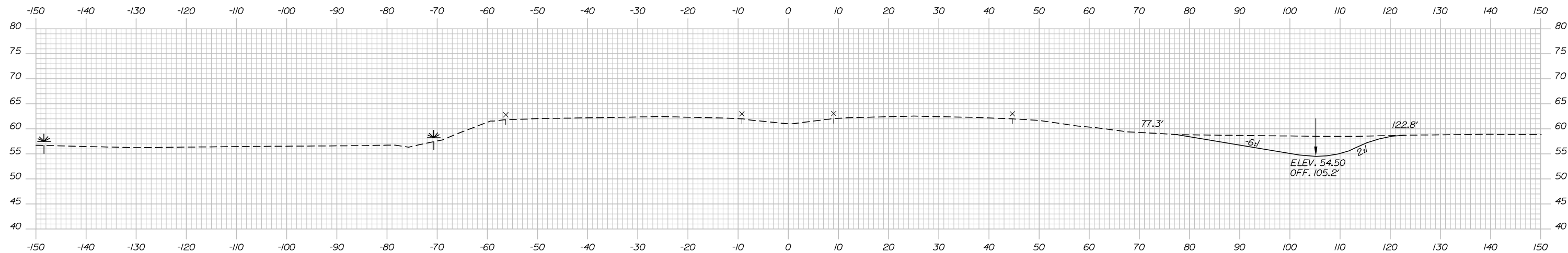
THE GOLD STAR MEMORIAL HIGHWAY

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

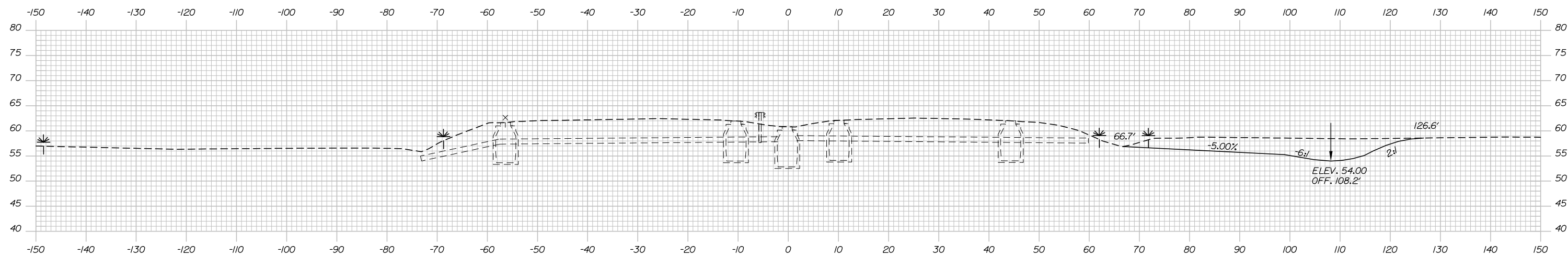
EXIT 45  
EMBANKMENT PRELOAD  
MAINE TURNPIKE CROSS SECTIONS  
STA. 2227+50 TO STA. 2227+62  
SHEET NUMBER: XS-15  
CONTRACT: 2019.13  
91 OF 173

Date: 7/26/2019

C= 80.5 CY  
 F= 0.0 CY  
 A.S.C.G.= 0.0 CY

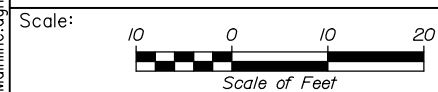


2228+00.00



2227+89.00

Filename: Xsect - Mainline.dgn



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THE GOLD STAR  
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EXIT 45  
 EMBANKMENT PRELOAD  
 MAINE TURNPIKE CROSS SECTIONS  
 STA. 2227+89 TO STA. 2228+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
	By	Date	
Designed	EDD	07\19	Checked JRH 07\19
Drawn	AJS	07\19	In Charge of RAL 07\19

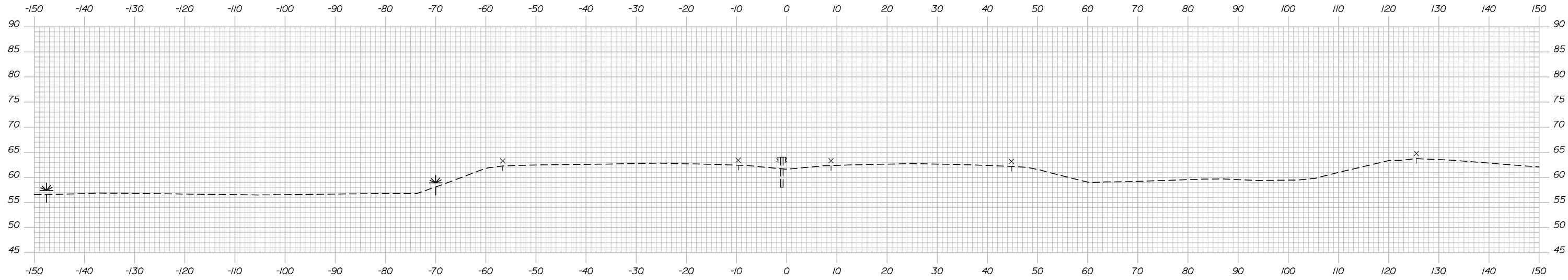
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

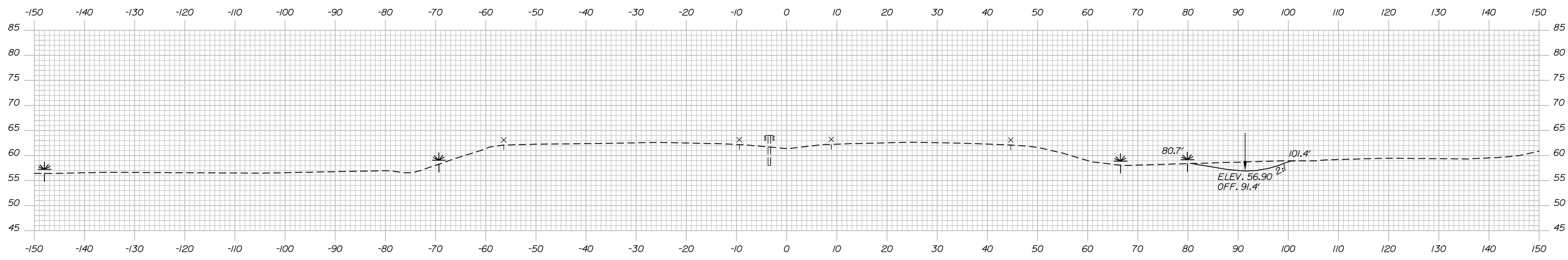
SHEET NUMBER: XS-16

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Date: 7/26/2019



2229+00.00



2228+50.00

Scale: Scale of Feet

No.	Revision	By	Date


Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD**

MAINE TURNPIKE CROSS SECTIONS  
STA. 2228+50 TO STA. 2229+00

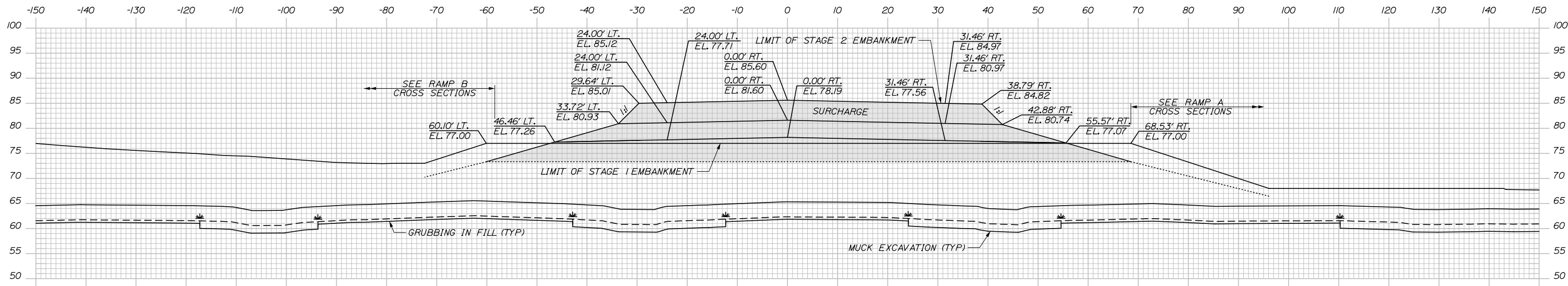
SHEET NUMBER: XS-17  
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CONTRACT: 2019.13

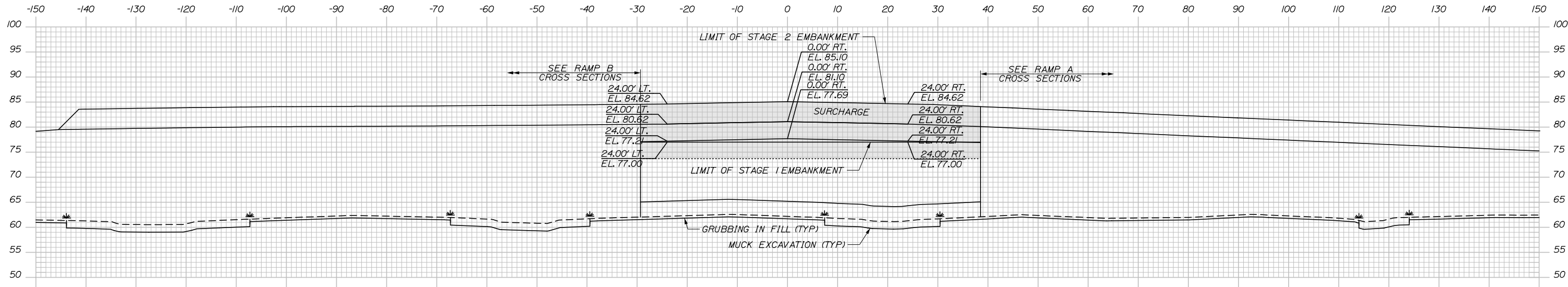
Filename: Xsect - Mainline.dgn

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2934.7 CY	1500.1 CY
A.S.C.G.=	1010.9 CY	556.2 CY
SURCHARGE=	0.0 CY	285.5 CY

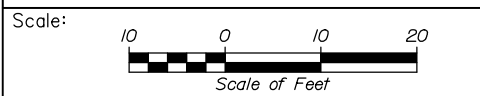


	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2217.8 CY	685.2 CY
A.S.C.G.=	541.9 CY	495.7 CY
SURCHARGE=	0.0 CY	520.6 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	942.9 CY	266.1 CY
A.S.C.G.=	183.3 CY	248.6 CY
SURCHARGE=	0.0 CY	293.9 CY

Filename: Xsect - Diamond (South Bridge).dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19



THE GOLD STAR  
MEMORIAL HIGHWAY

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

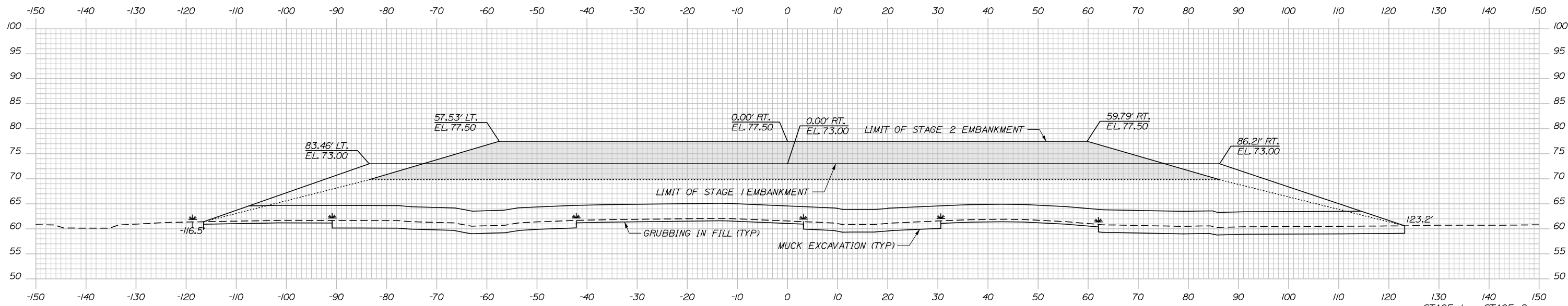
EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - ROUTE 703 DIAMOND  
STA. 1046+50 TO STA.1047+00

SHEET NUMBER: XS-18  
CONTRACT: 2019.13  
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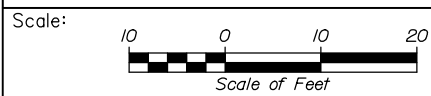
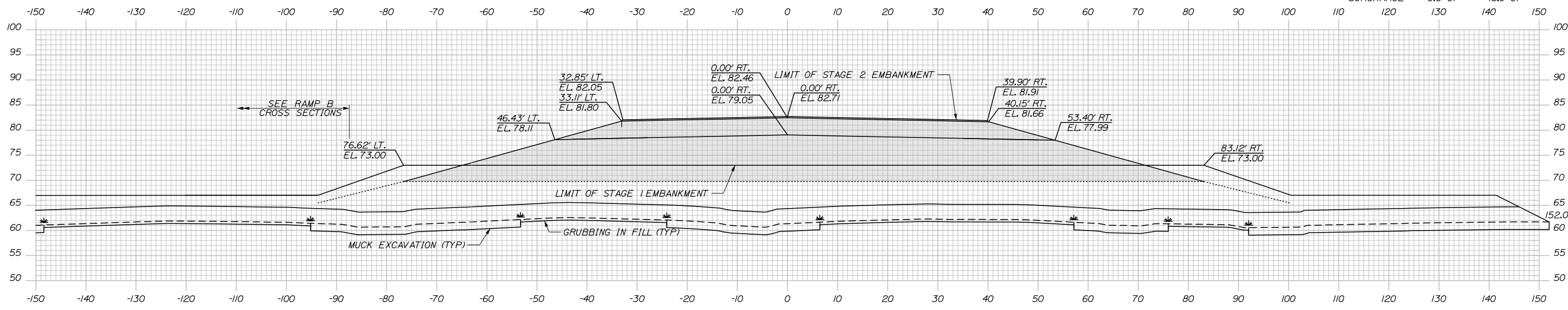
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	3270.6 CY	1043.7 CY
A.S.C.G.=	1281.4 CY	1148.3 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	3064.1 CY	1509.4 CY
A.S.C.G.=	1299.4 CY	826.5 CY
SURCHARGE=	0.0 CY	16.9 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

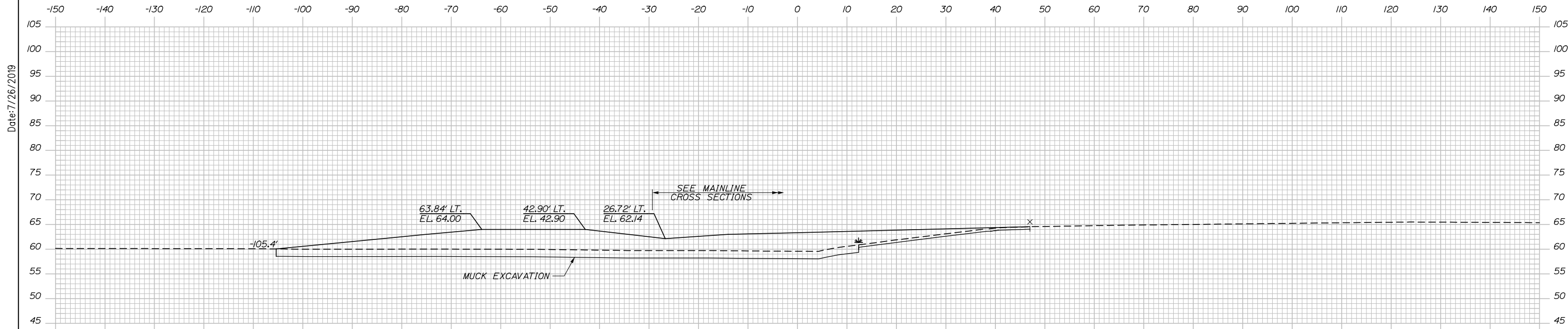
**THE GOLD STAR MEMORIAL HIGHWAY**

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

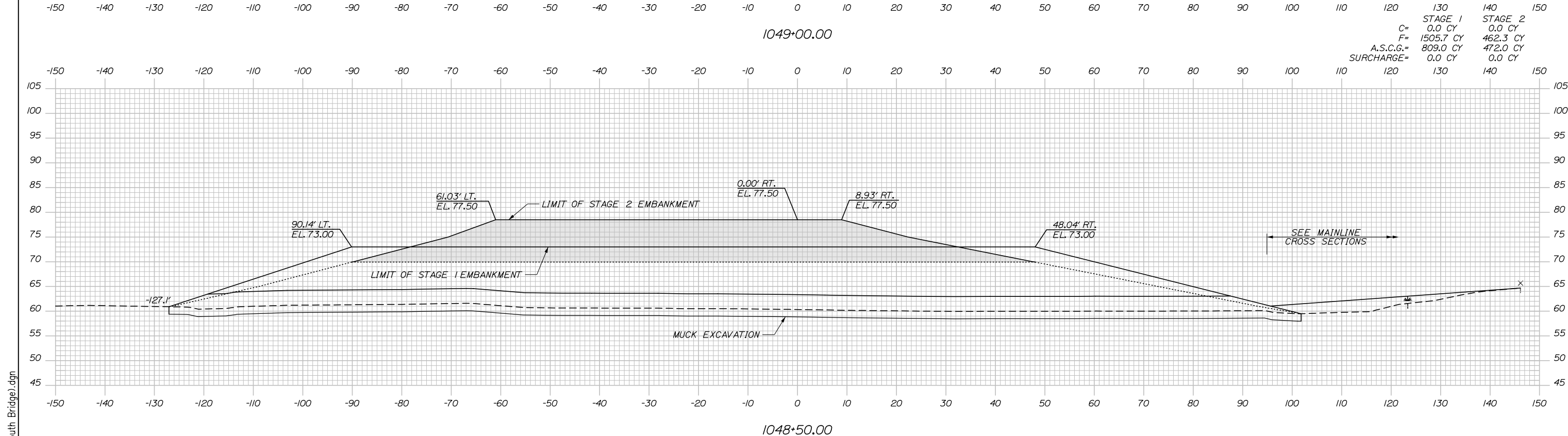
**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1047+50 TO STA. 1048+00

SHEET NUMBER: XS-19  
 CONTRACT: 2019.13  
 95 OF 173

Date: 7/26/2019

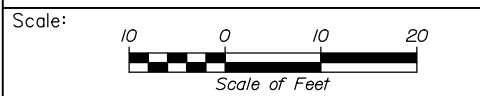


	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	141.3 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1505.7 CY	462.3 CY
A.S.C.G.=	809.0 CY	472.0 CY
SURCHARGE=	0.0 CY	0.0 CY

Filename: Xsect - Diamond (South Bridge).dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

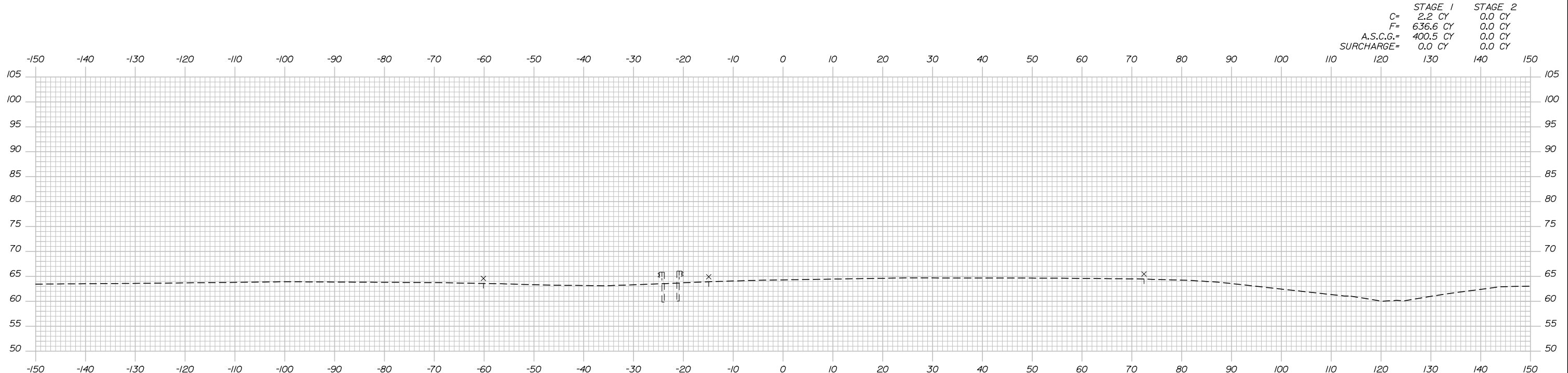
**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1048+50 TO STA.1049+00**

SHEET NUMBER: XS-20  
 CONTRACT:2019.13  
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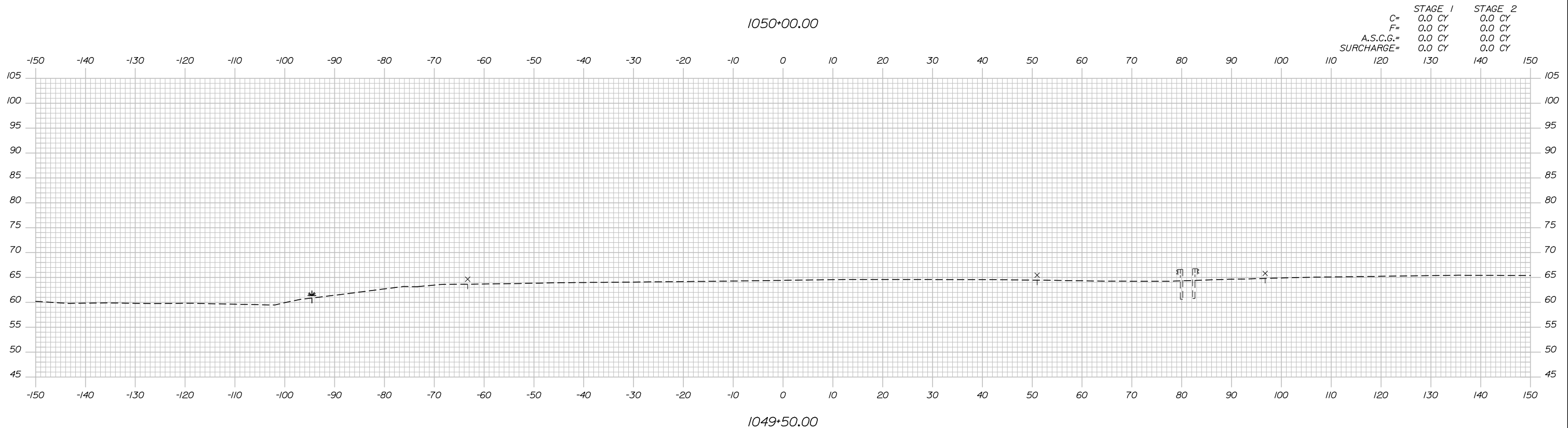


Date: 7/26/2019

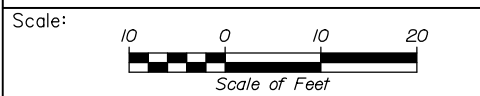
Filename: Xsect - Diamond (South Bridge).dgn



1050+00.00



1049+50.00



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

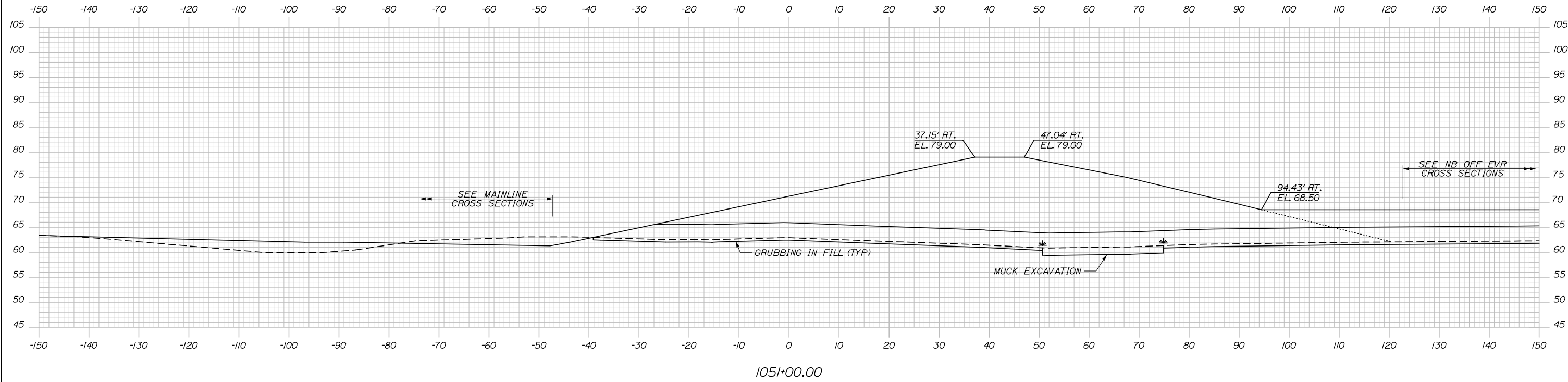
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - ROUTE 703 DIAMOND  
STA. 1049+50 TO STA.1050+00

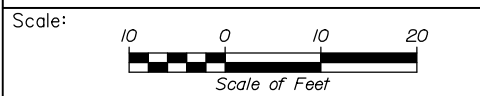
SHEET NUMBER: XS-21  
CONTRACT: 2019.13  
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Date: 7/26/2019

	STAGE 1	STAGE 2
C=	1.2 CY	0.0 CY
F=	2991.6 CY	744.2 CY
A.S.C.G.=	1127.7 CY	939.2 CY
SURCHARGE=	0.0 CY	0.0 CY



Filename: Xsect - Diamond (South Bridge).dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

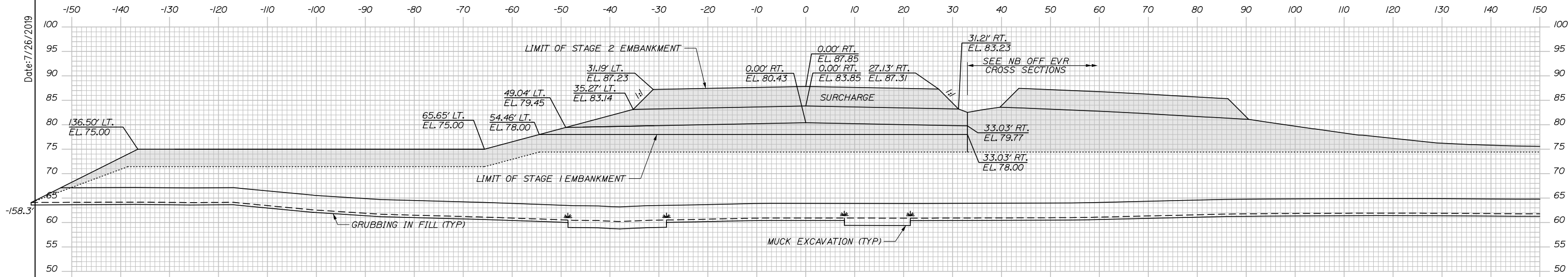
EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1050+50 TO STA.1051+00

SHEET NUMBER: XS-22

CONTRACT: 2019.13

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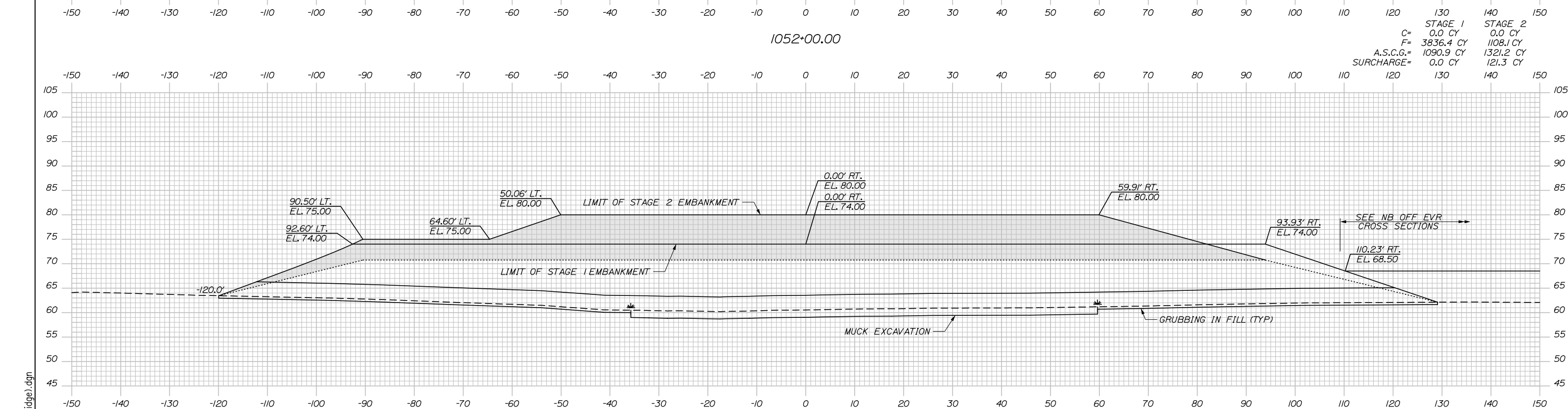
Date: 7/26/2019



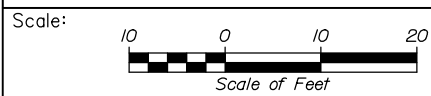
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	4044.7 CY	806.5 CY
A.S.C.G.=	1069.1 CY	472.1 CY
SURCHARGE=	0.0 CY	844.3 CY

1052+00.00

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	3836.4 CY	1108.1 CY
A.S.C.G.=	1090.9 CY	1321.2 CY
SURCHARGE=	0.0 CY	121.3 CY



1051+50.00



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1051+50 TO STA.1052+00**

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

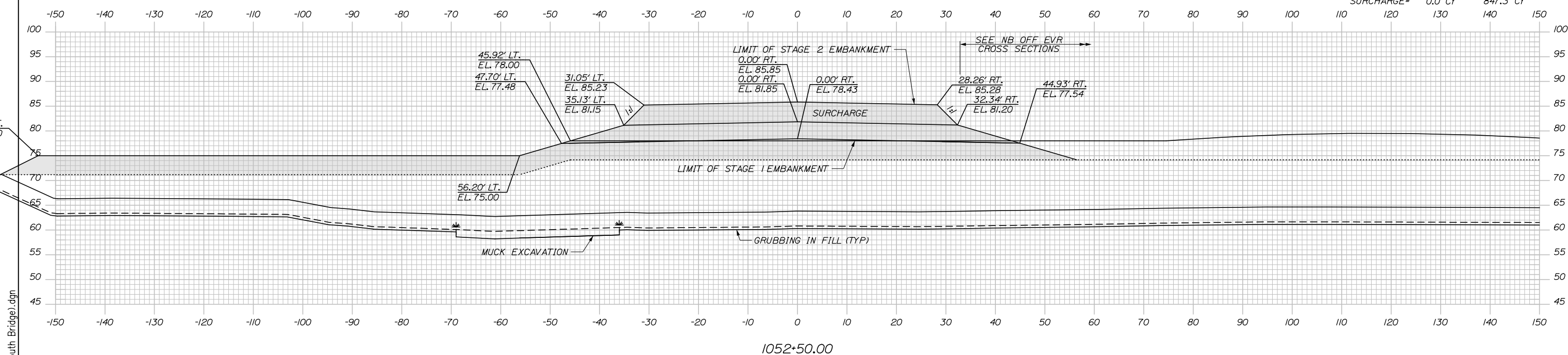
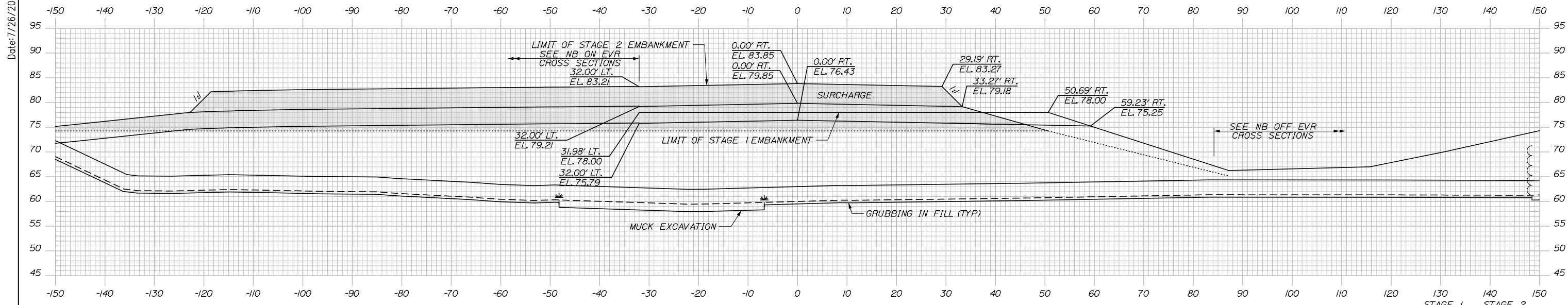
CONTRACT:2019.13

SHEET NUMBER: XS-23

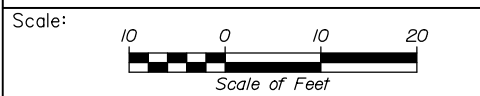
99 OF 173

Filename: Xsect - Diamond (South Bridge).dgn

Date: 7/26/2019



Filename: Xsect - Diamond (South Bridge).dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

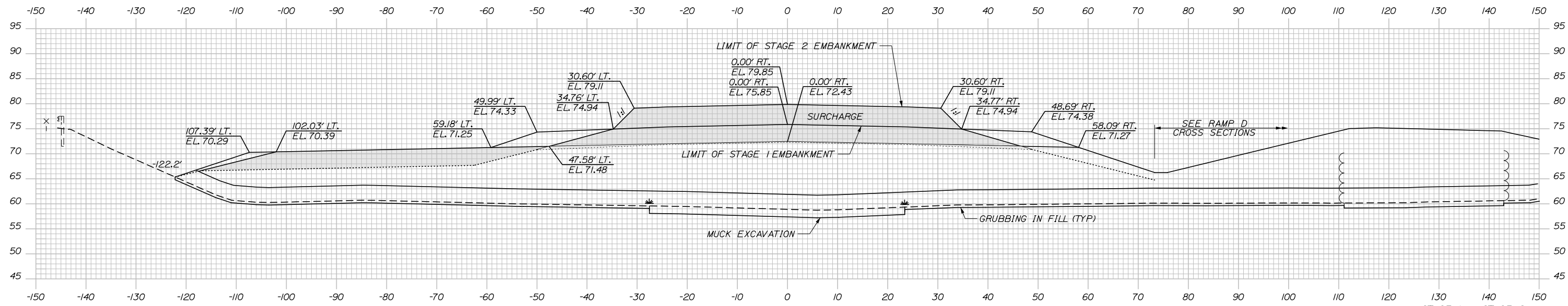
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - ROUTE 703 DIAMOND  
STA. 1052+50 TO STA. 1053+00

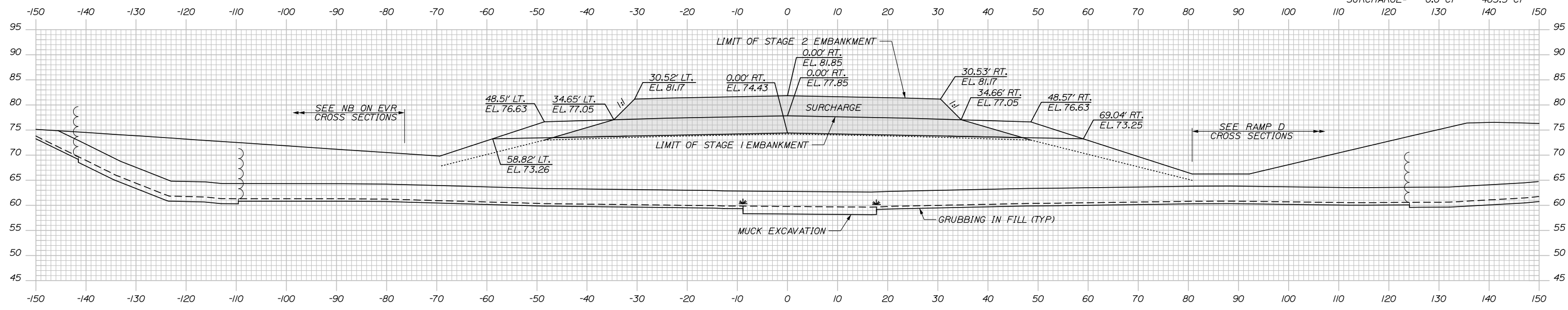
SHEET NUMBER: XS-24  
CONTRACT: 2019.13  
100 OF 173

Date: 7/26/2019

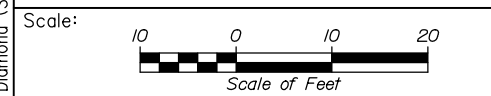
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C=	0.0 CY	0.0 CY
F=	2529.2 CY	368.6 CY
A.S.C.G.=	1665.6 CY	534.4 CY
SURCHARGE=	0.0 CY	485.9 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2833.3 CY	177.0 CY
A.S.C.G.=	1613.1 CY	552.2 CY
SURCHARGE=	0.0 CY	483.5 CY



Filename: Xsect - Diamond (South Bridge).dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

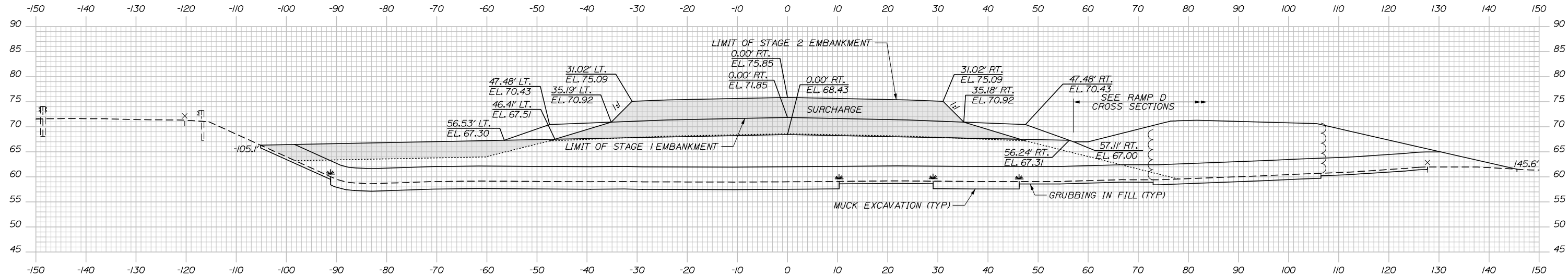
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - ROUTE 703 DIAMOND**  
**STA. 1053+50 TO STA. 1054+00**

SHEET NUMBER: XS-25  
 CONTRACT: 2019.13  
 101 OF 173

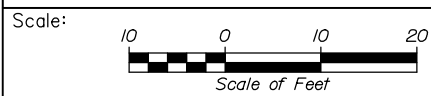
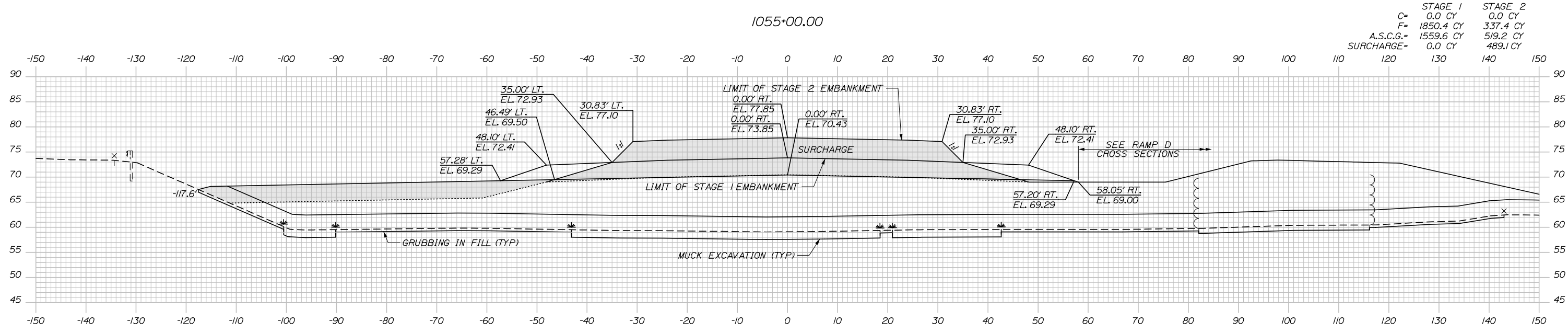
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1264.4 CY	243.1 CY
A.S.C.G.=	1455.7 CY	489.8 CY
SURCHARGE=	0.0 CY	492.3 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1850.4 CY	337.4 CY
A.S.C.G.=	1559.6 CY	519.2 CY
SURCHARGE=	0.0 CY	489.1 CY



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

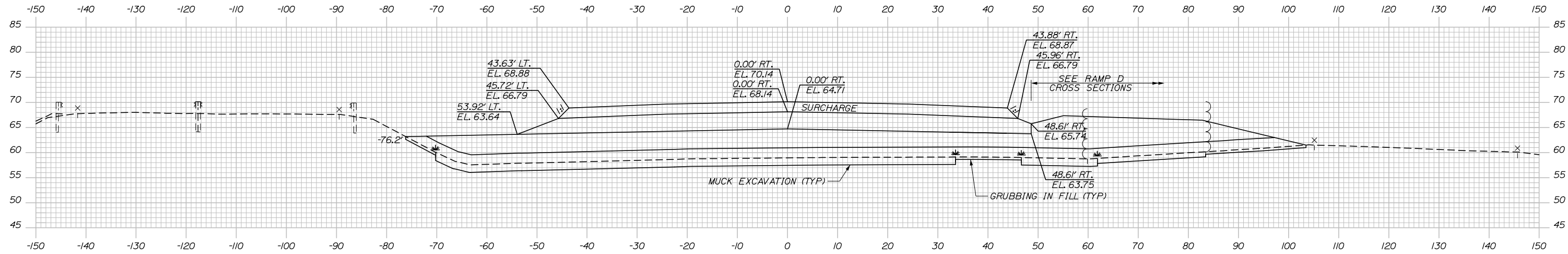
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - ROUTE 703 DIAMOND**  
**STA. 1054+50 TO STA.1055+00**

SHEET NUMBER: XS-26  
 CONTRACT: 2019.13  
 102 OF 173

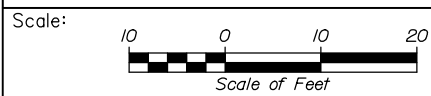
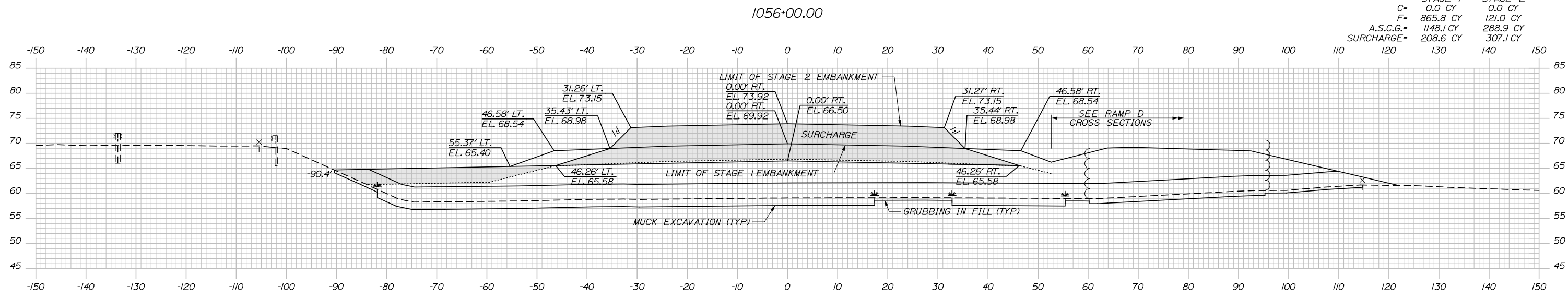
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	378.7 CY	0.0 CY
A.S.C.G.=	1174.8 CY	0.0 CY
SURCHARGE=	319.6 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	865.8 CY	121.0 CY
A.S.C.G.=	1148.1 CY	288.9 CY
SURCHARGE=	208.6 CY	307.1 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1055+50 TO STA.1056+00

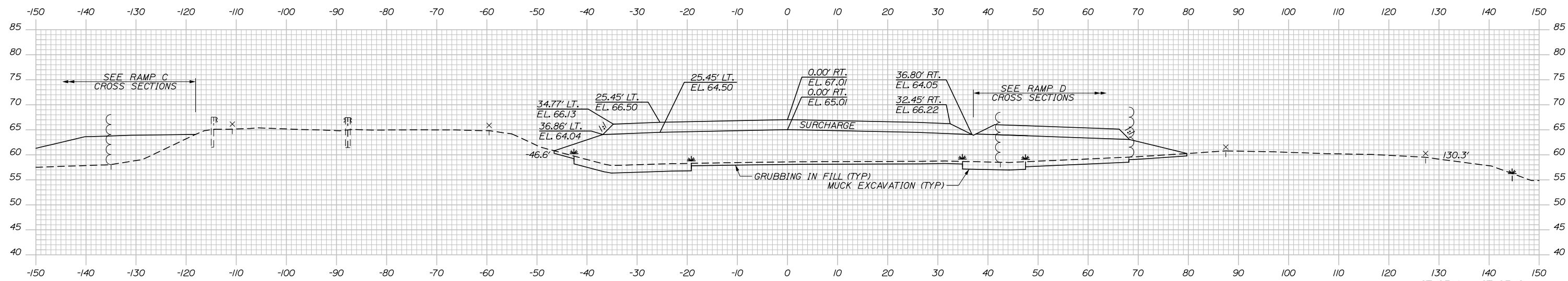
SHEET NUMBER: XS-27  
 103 OF 173

CONTRACT: 2019.13

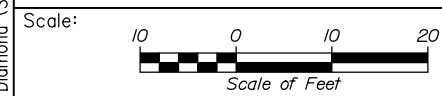
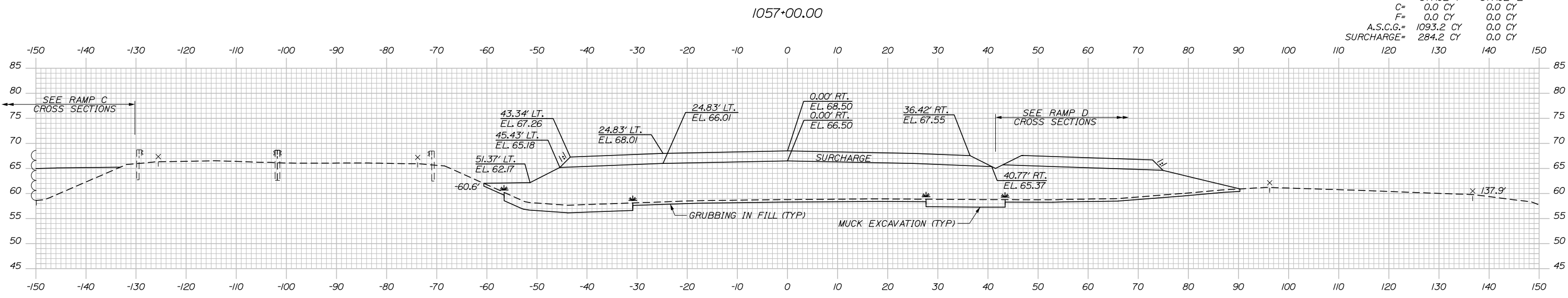
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

	STAGE 1	STAGE 2
C=	0.3 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	738.1 CY	0.0 CY
SURCHARGE=	244.4 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	1093.2 CY	0.0 CY
SURCHARGE=	284.2 CY	0.0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1056+50 TO STA.1057+00

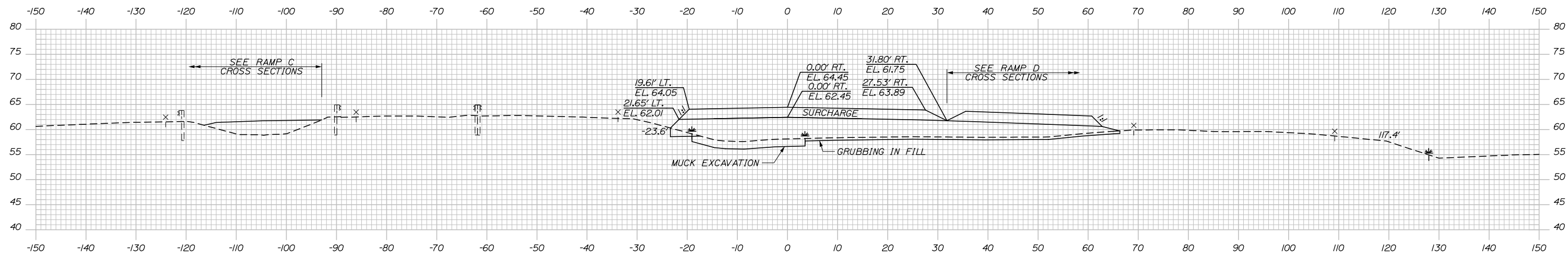
SHEET NUMBER: XS-28  
 CONTRACT:2019.13  
 104 OF 173



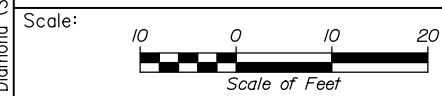
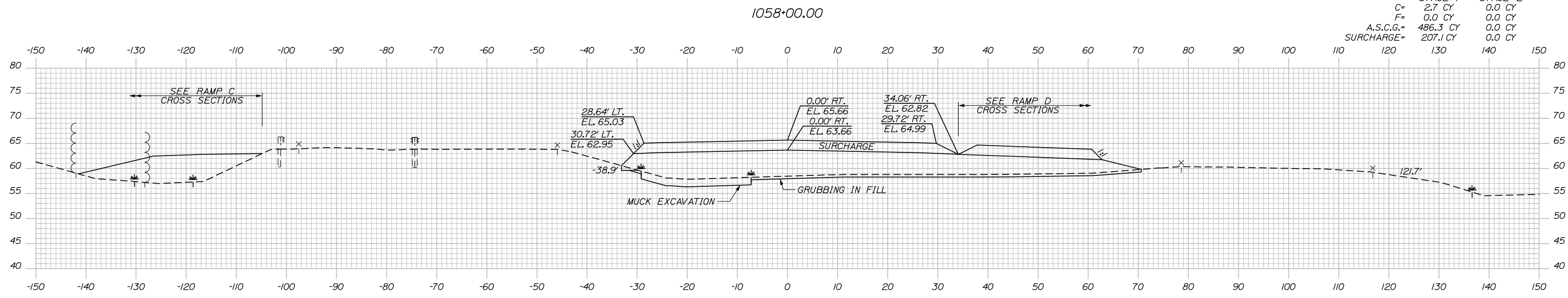
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

	STAGE 1	STAGE 2
C=	11.7 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	310.3 CY	0.0 CY
SURCHARGE=	165.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	2.7 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	486.3 CY	0.0 CY
SURCHARGE=	207.1 CY	0.0 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

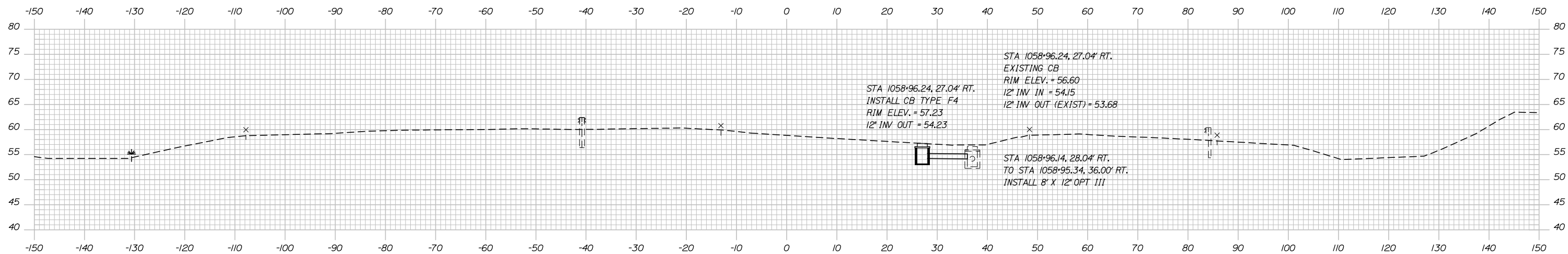
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - ROUTE 703 DIAMOND**  
**STA. 1057+50 TO STA.1058+00**

SHEET NUMBER: XS-29  
 105 OF 173

CONTRACT: 2019.13

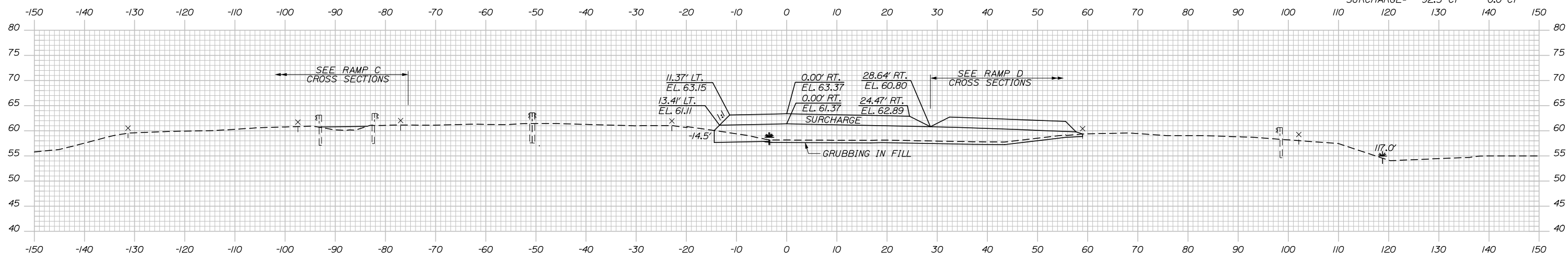
Date: 7/26/2019

Filename: Xsect - Diamond (South Bridge).dgn

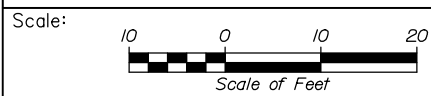


1059+00.00

	STAGE 1	STAGE 2
C=	11.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	148.1 CY	0.0 CY
SURCHARGE=	92.3 CY	0.0 CY



1058+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - ROUTE 703 DIAMOND  
 STA. 1058+50 TO STA.1059+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
Designed	By EDD	Date 07\19	Checked	By JRH	Date 07\19
Drawn	By AJA	Date 07\19	In Charge of	By RAL	Date 07\19

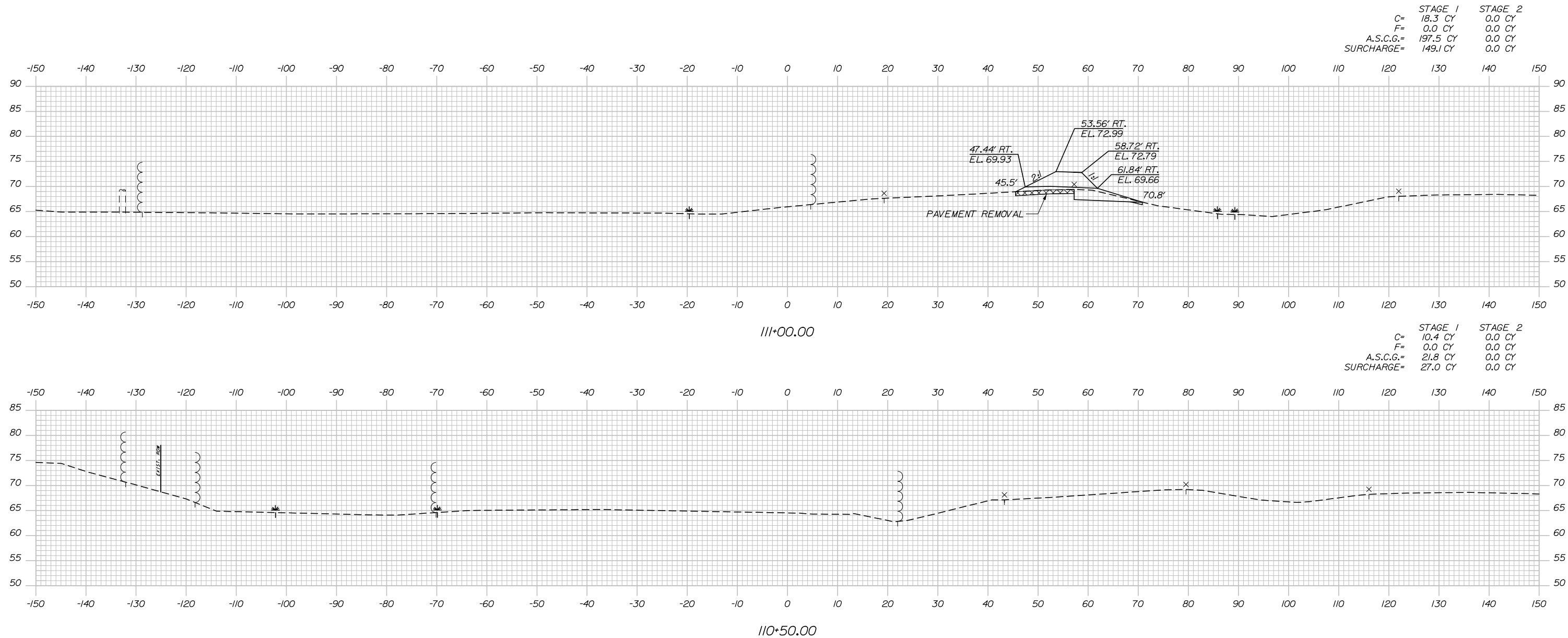
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: XS-30

106 OF 173

Date: 7/26/2019



Scale:

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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THE GOLD STAR  
MEMORIAL HIGHWAY

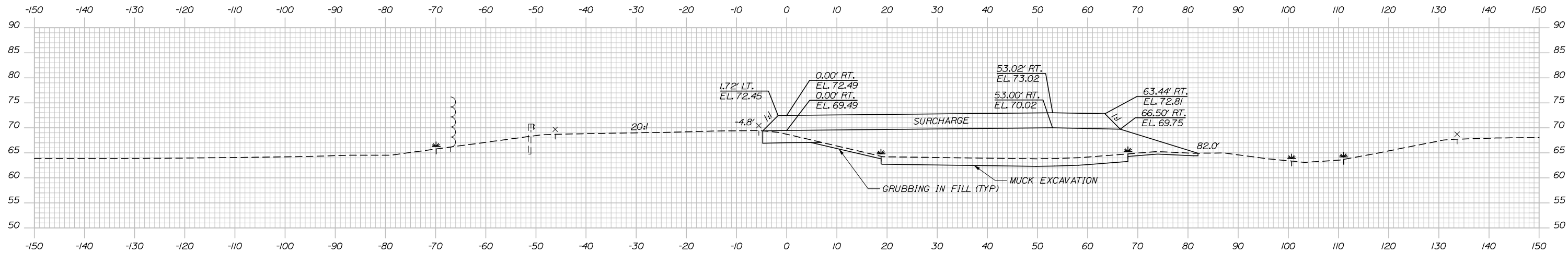
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS – RAMP A  
STA. 110+50 TO STA. 111+00

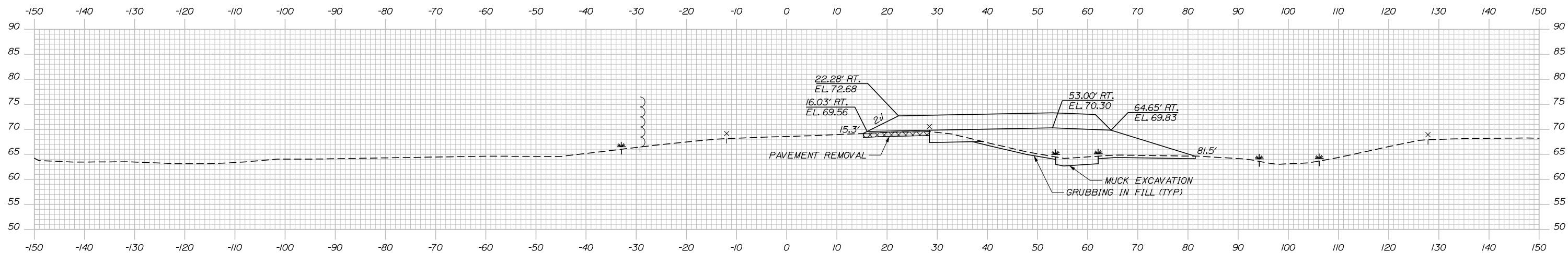
SHEET NUMBER: XS-31  
CONTRACT: 2019.13  
107 OF 173

Date: 7/26/2019

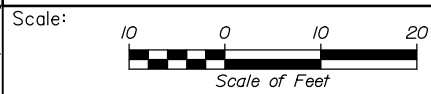
	STAGE 1	STAGE 2
C=	10.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	901.4 CY	0.0 CY
SURCHARGE=	479.1 CY	0.0 CY



	STAGE 1	STAGE 2
C=	17.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	529.1 CY	0.0 CY
SURCHARGE=	311.6 CY	0.0 CY



Filename: Xsect - Ramp A.dgn



Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP A  
STA. 111+50 TO STA. 112+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

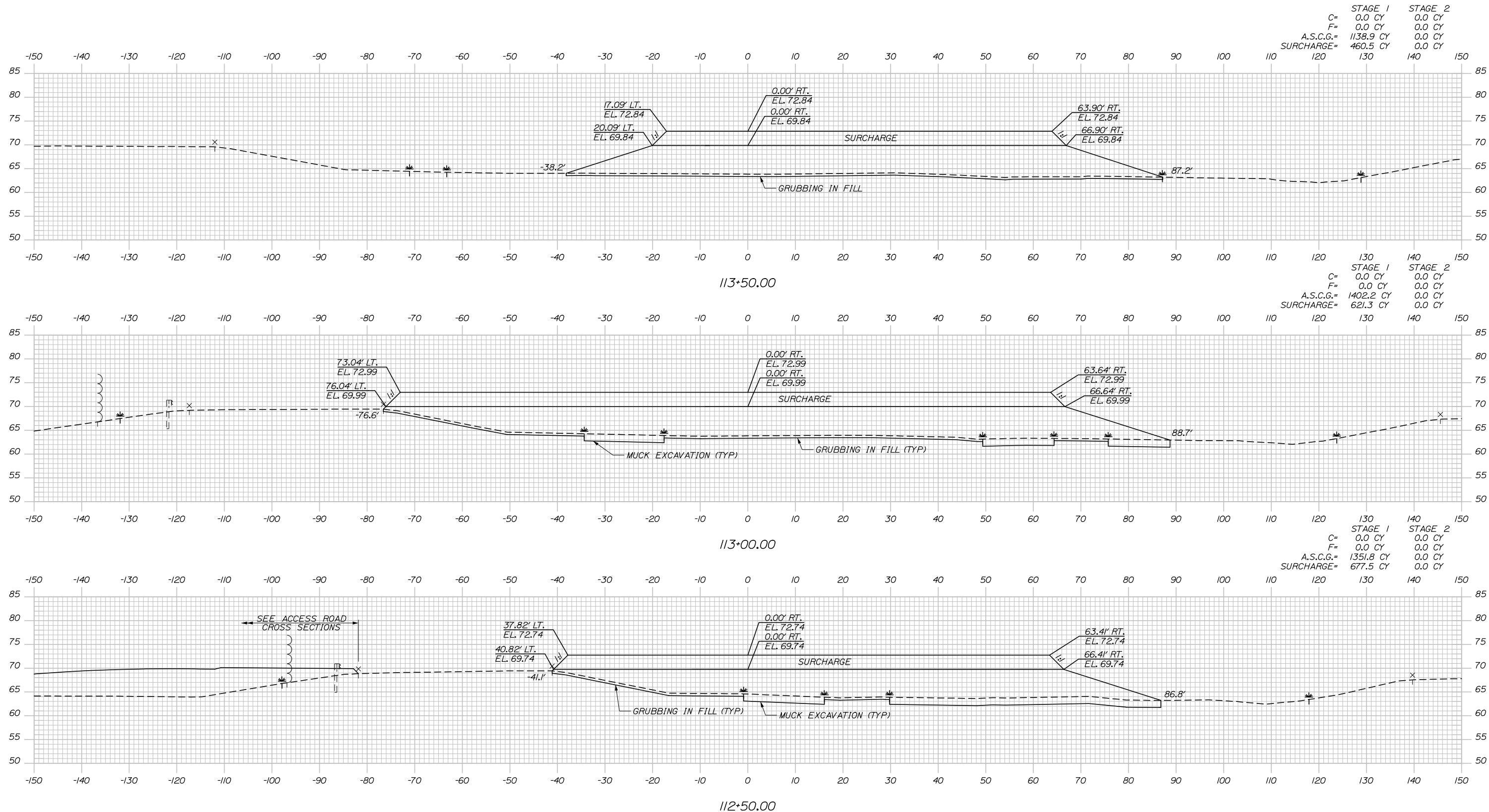
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: XS-32

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Date: 7/26/2019



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

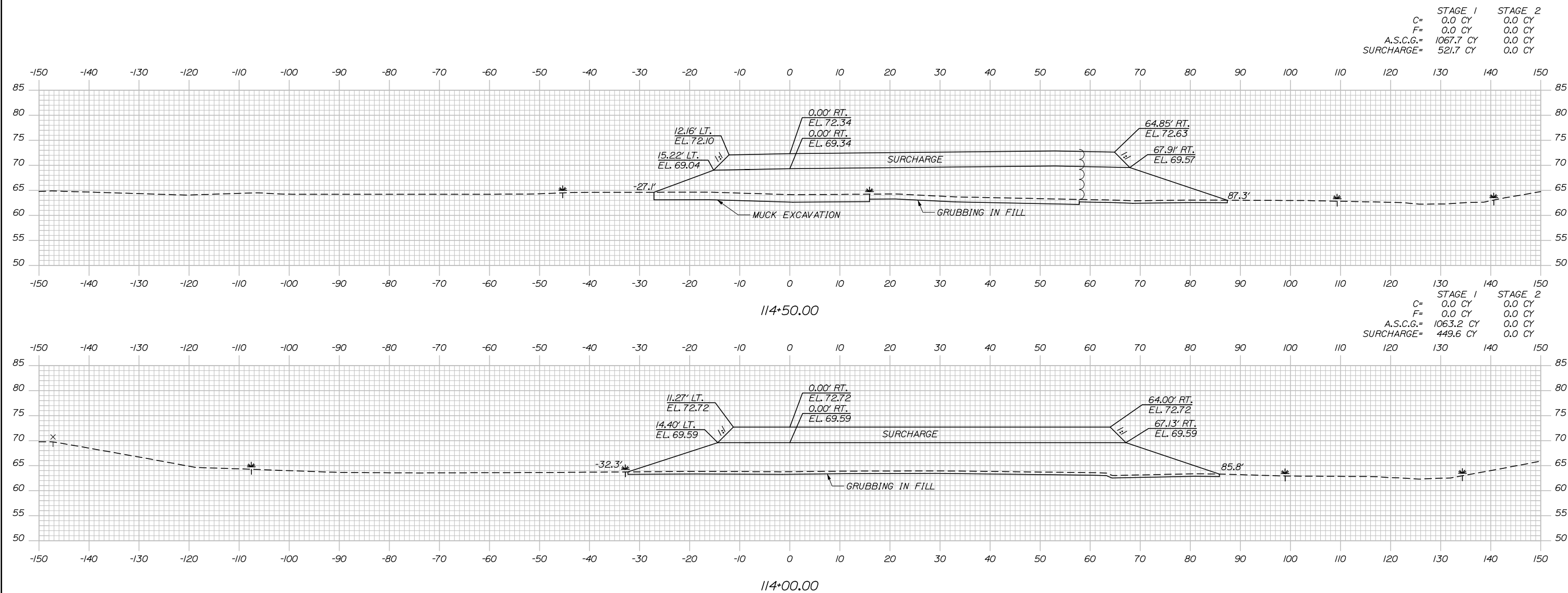
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP A  
 STA. 112+50 TO STA. 113+50

SHEET NUMBER: XS-33  
 109 OF 173

CONTRACT: 2019.13

Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	1067.7 CY	0.0 CY
SURCHARGE=	521.7 CY	0.0 CY

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	1063.2 CY	0.0 CY
SURCHARGE=	449.6 CY	0.0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP A**  
**STA. 114+00 TO STA. 114+50**

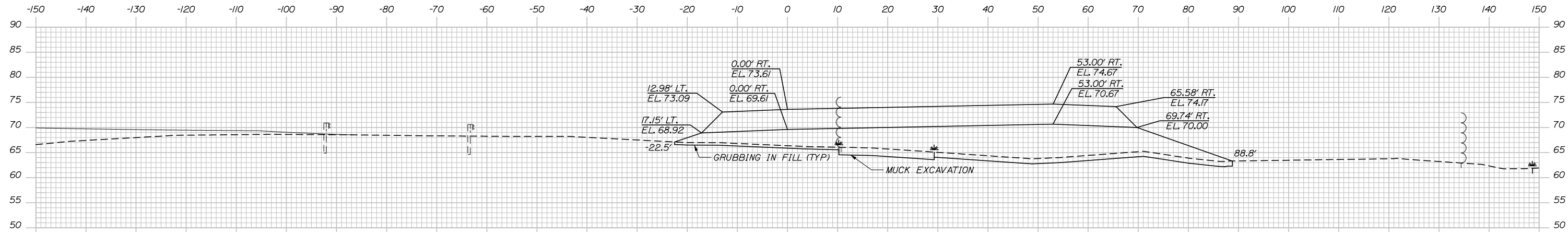
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CONTRACT: 2019.13

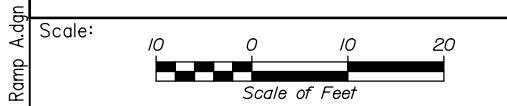
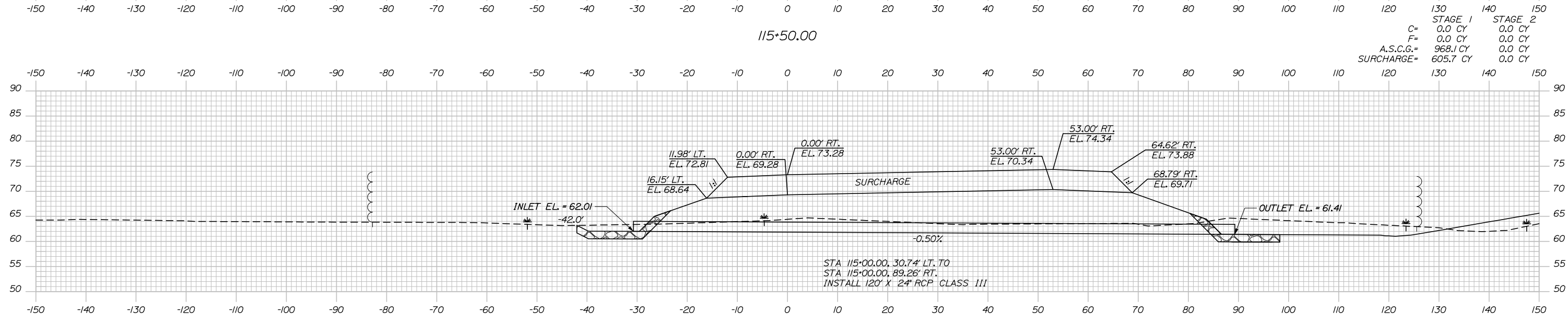
110 OF 173

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	93.7 CY	0.0 CY
A.S.C.G.=	572.6 CY	0.0 CY
SURCHARGE=	426.8 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	968.1 CY	0.0 CY
SURCHARGE=	605.7 CY	0.0 CY



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	Checked	By	Date
EDD	07\19	JRH	JRH	07\19
AJS	07\19	RAL	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

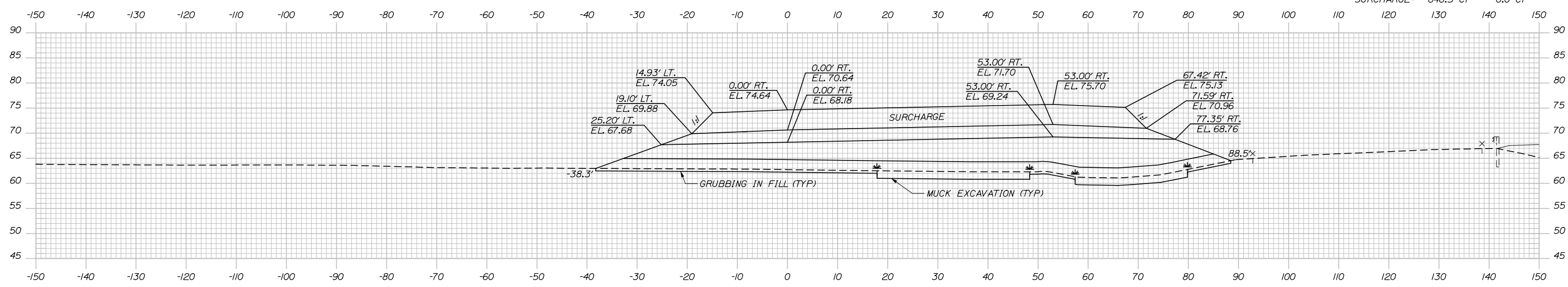
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP A**  
 STA. 115+00 TO STA. 115+50

SHEET NUMBER: XS-35  
 CONTRACT: 2019.13  
 110 OF 173

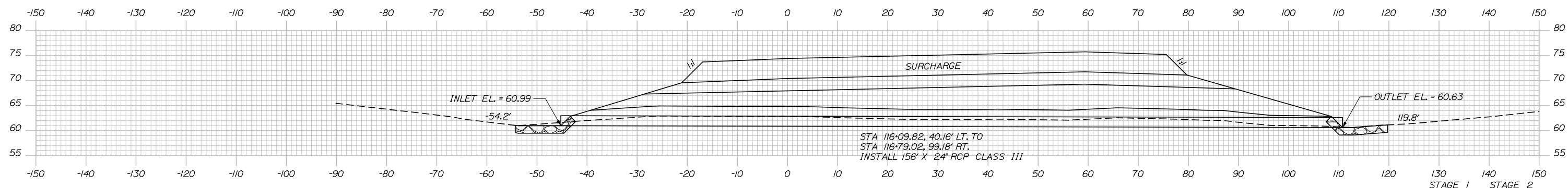
Filename: Xsect - Ramp A.dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	957.5 CY	0.0 CY
A.S.C.G.=	902.7 CY	0.0 CY
SURCHARGE=	648.5 CY	0.0 CY

Date: 7/26/2019

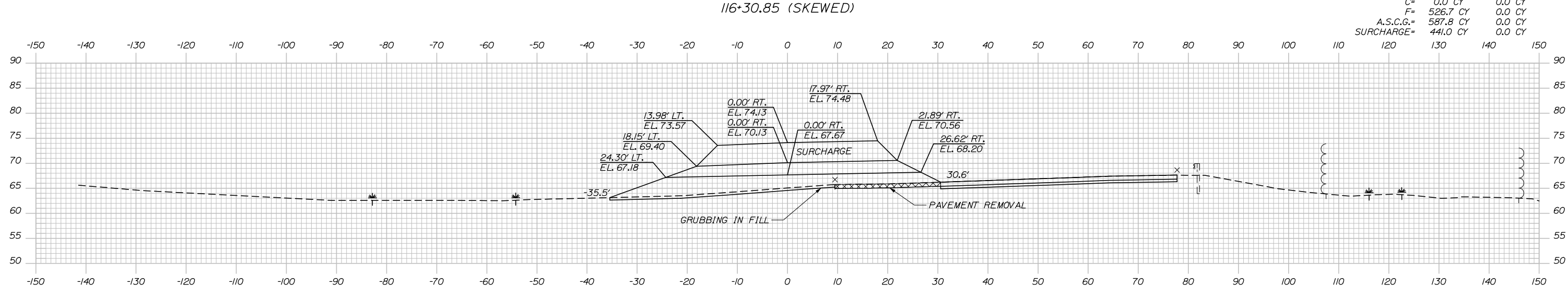


116+50.00

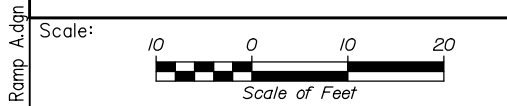


116+30.85 (SKEWED)

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	526.7 CY	0.0 CY
A.S.C.G.=	587.8 CY	0.0 CY
SURCHARGE=	441.0 CY	0.0 CY



116+00.00



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
EDD	07\19	JRH	07\19
Drawn	AJS	In Charge of	RAL
	07\19		07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

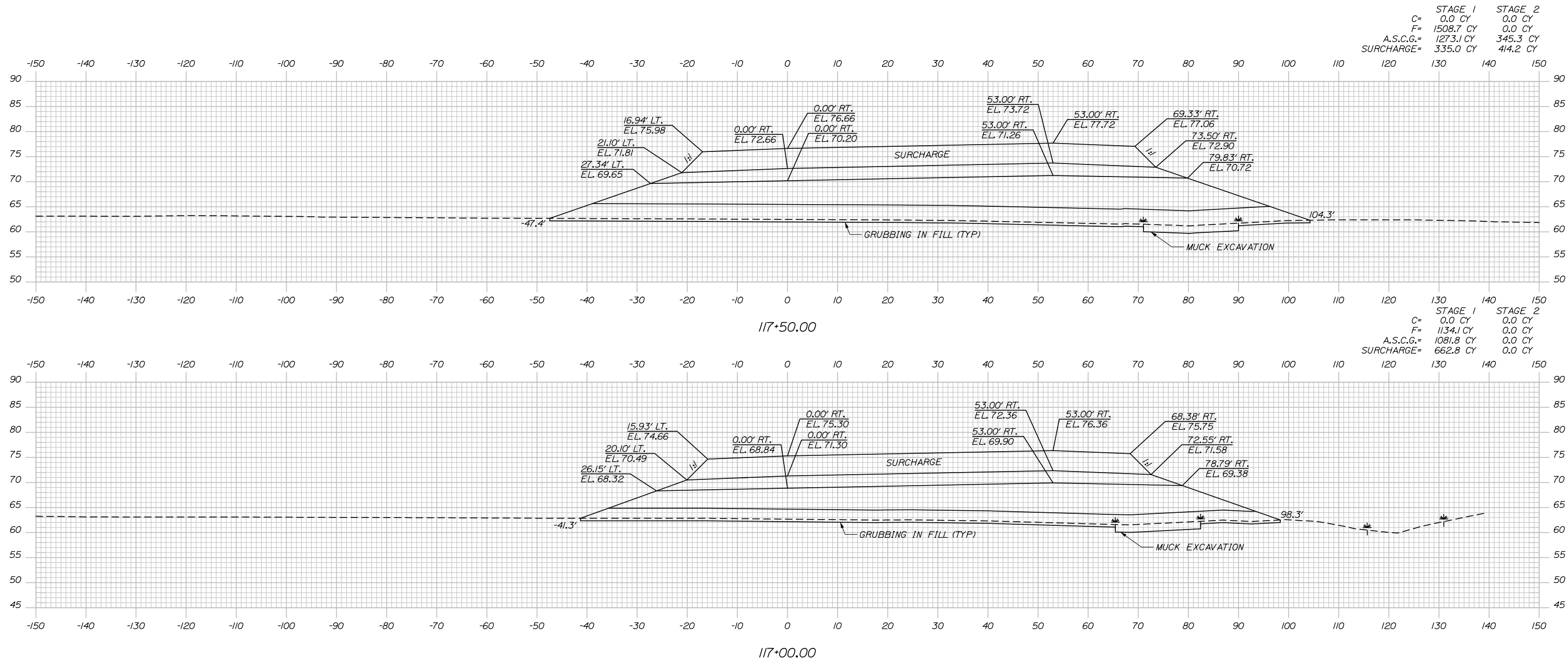
EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP A  
 STA. 116+00 TO STA. 116+50

SHEET NUMBER: XS-36  
 CONTRACT: 2019.13  
 112 OF 173

Filename: Xsect - Ramp A.dgn



Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1508.7 CY	0.0 CY
A.S.C.G.=	1273.1 CY	345.3 CY
SURCHARGE=	335.0 CY	414.2 CY

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1134.1 CY	0.0 CY
A.S.C.G.=	1081.8 CY	0.0 CY
SURCHARGE=	662.8 CY	0.0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

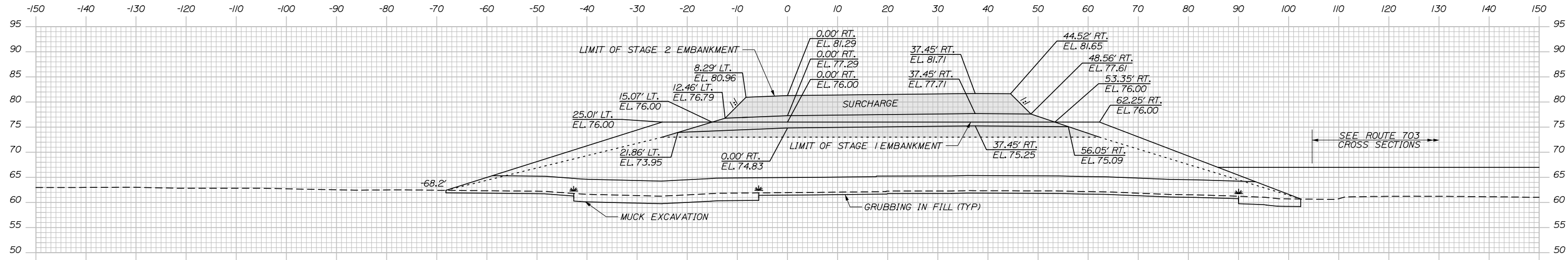
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP A**  
**STA. 117+00 TO STA. 117+50**

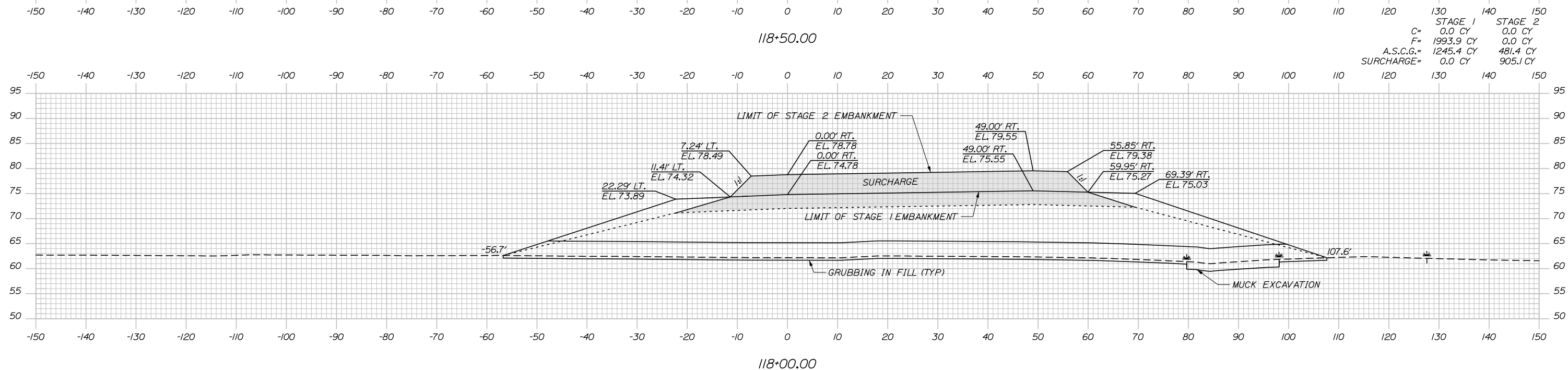
SHEET NUMBER: XS-37  
 CONTRACT: 2019.13  
 113 OF 173

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2278.5 CY	237.9 CY
A.S.C.G.=	972.6 CY	442.3 CY
SURCHARGE=	0.0 CY	784.5 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1993.9 CY	0.0 CY
A.S.C.G.=	1245.4 CY	481.4 CY
SURCHARGE=	0.0 CY	905.1 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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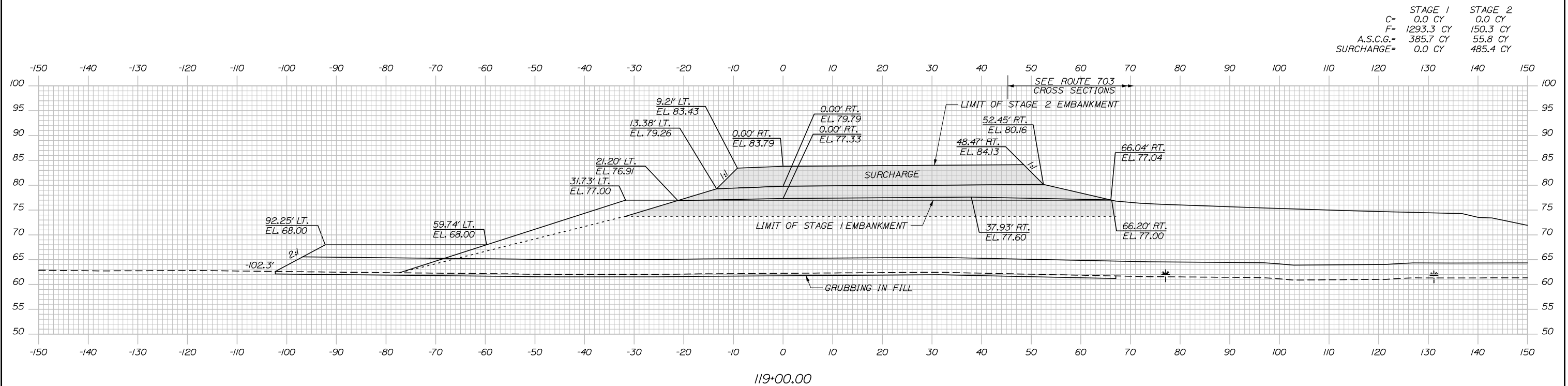
**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP A**  
 STA. 118+00 TO STA. 118+50

SHEET NUMBER: XS-38  
 CONTRACT: 2019.13  
 114 OF 173

Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1293.3 CY	150.3 CY
A.S.C.G.=	385.7 CY	55.8 CY
SURCHARGE=	0.0 CY	485.4 CY

Scale: Scale of Feet

No.	Revision	By	Date


Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS – RAMP A  
 STA. 119+00 TO STA. 119+47

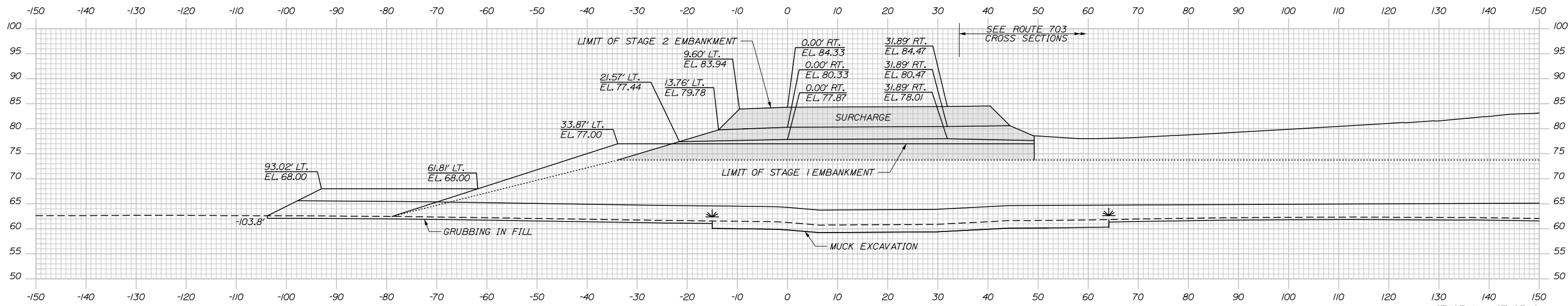
SHEET NUMBER: XS-39  
 115 OF 173

CONTRACT: 2019.13

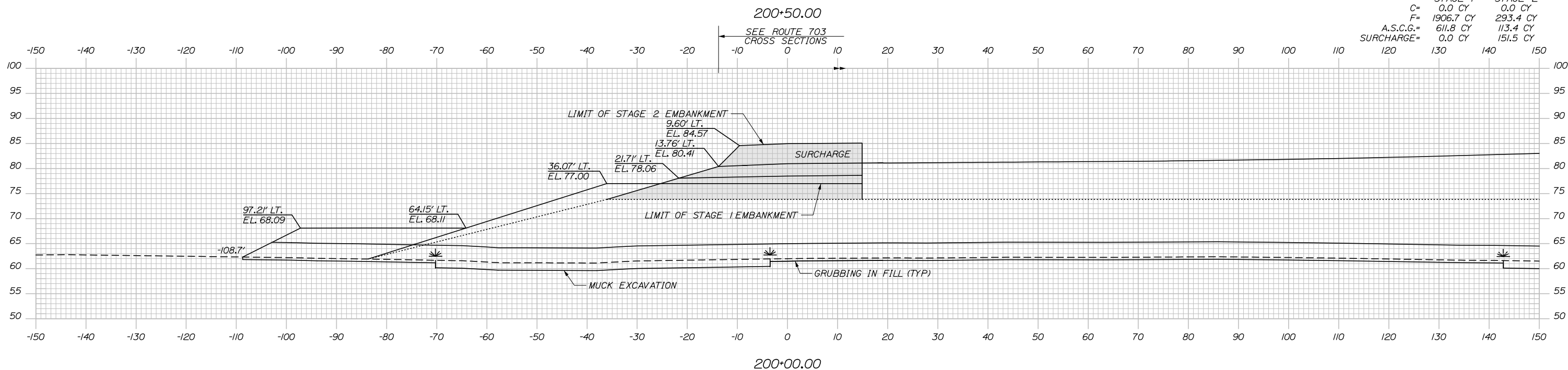
Filename: Xsect - Ramp A.dgn

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2470.8 CY	446.7 CY
A.S.C.G.=	836.5 CY	233.9 CY
SURCHARGE=	0.0 CY	326.6 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1906.7 CY	293.4 CY
A.S.C.G.=	611.8 CY	113.4 CY
SURCHARGE=	0.0 CY	151.5 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 200+00 TO STA. 200+50

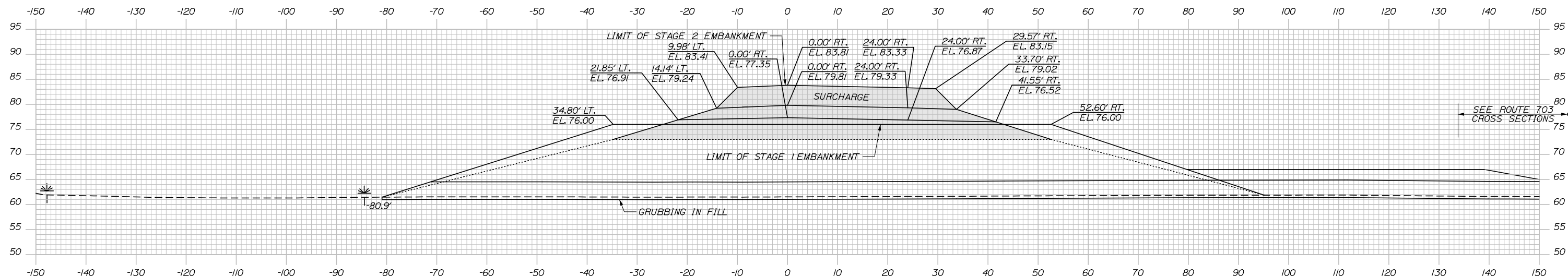
SHEET NUMBER: XS-40

CONTRACT: 2019.13

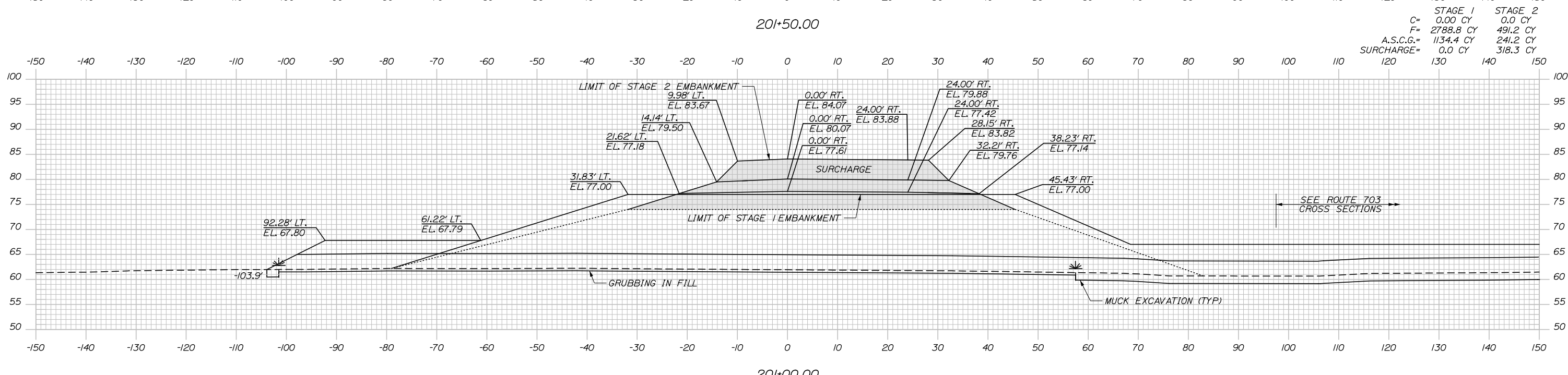
116 OF 173

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2706.8 CY	523.9 CY
A.S.C.G.=	971.4 CY	244.6 CY
SURCHARGE=	0.0 CY	324.2 CY



	STAGE 1	STAGE 2
C=	0.00 CY	0.0 CY
F=	2788.8 CY	491.2 CY
A.S.C.G.=	1134.4 CY	241.2 CY
SURCHARGE=	0.0 CY	318.3 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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THE GOLD STAR MEMORIAL HIGHWAY

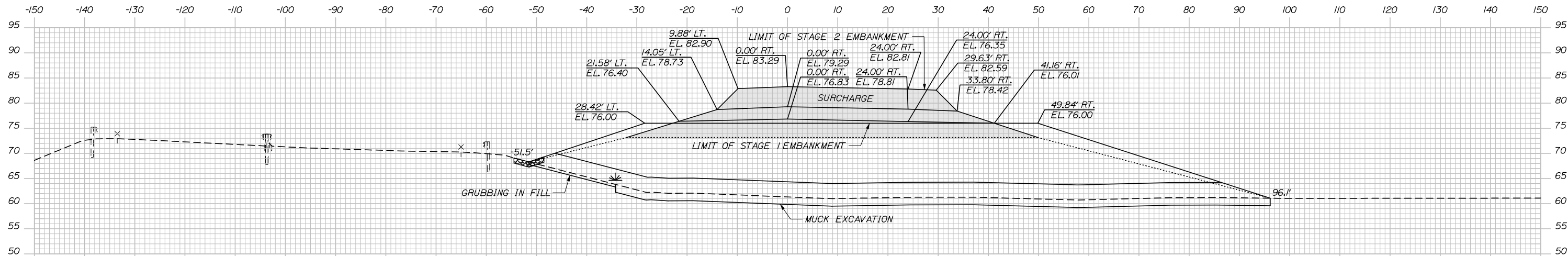
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 201+00 TO STA. 201+50

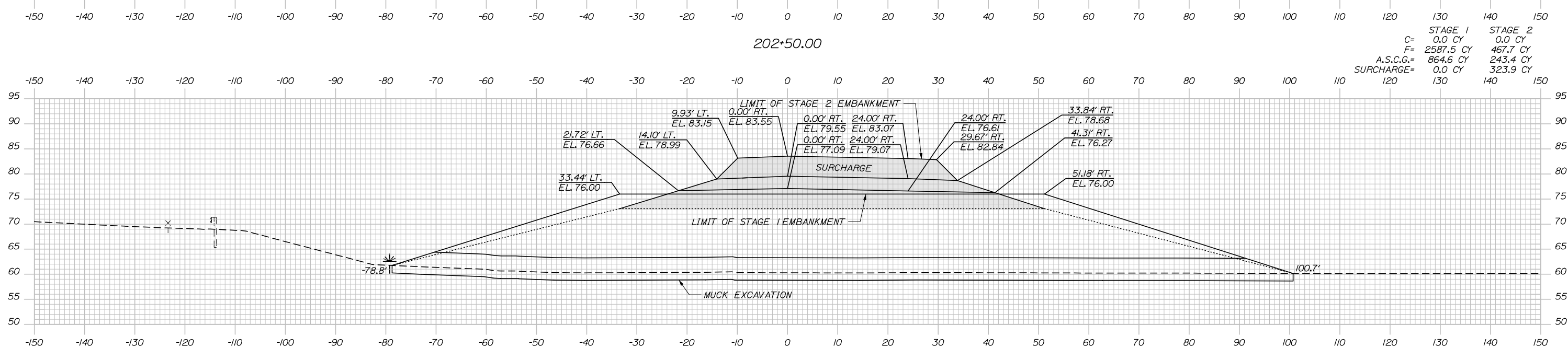
SHEET NUMBER: XS-41  
 CONTRACT: 2019.13  
 117 OF 173

Date: 7/26/2019

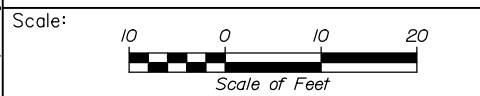
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1619.5 CY	219.8 CY
A.S.C.G.=	706.5 CY	427.5 CY
SURCHARGE=	0.0 CY	322.8 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2587.5 CY	467.7 CY
A.S.C.G.=	864.6 CY	243.4 CY
SURCHARGE=	0.0 CY	323.9 CY



Filename: Xsect - Ramp B.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

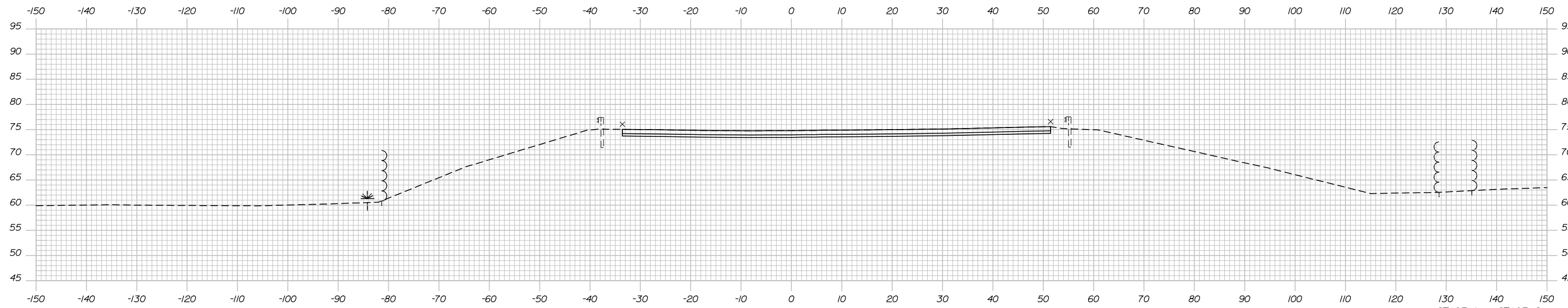
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP B**  
**STA. 202+00 TO STA. 202+50**

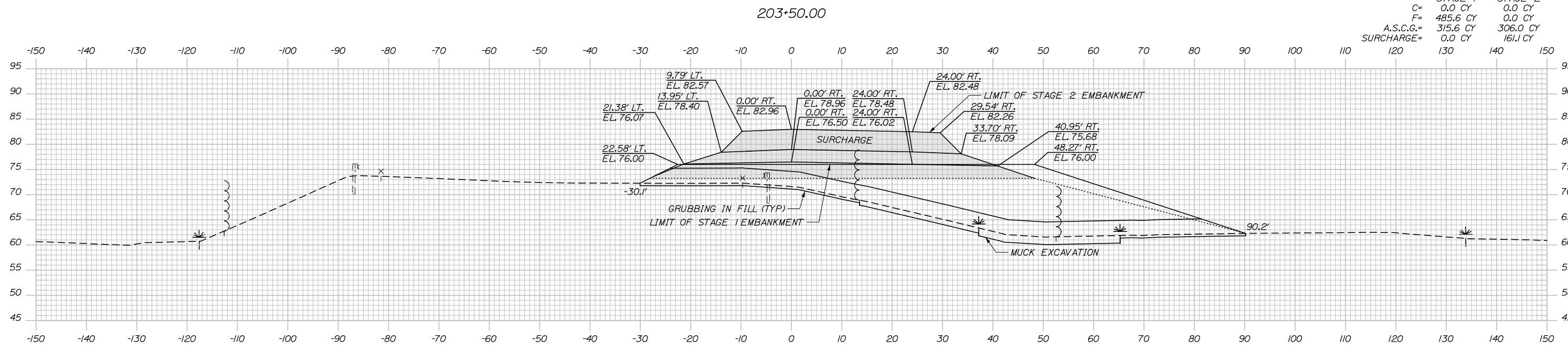
SHEET NUMBER: XS-42  
 CONTRACT: 2019.13  
 118 OF 173

Date: 7/26/2019

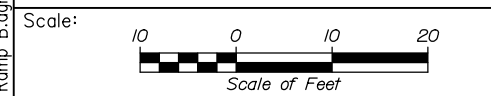
	STAGE 1	STAGE 2
C=	6.6 CY	0.0 CY
F=	220.6 CY	114.2 CY
A.S.C.G.=	201.9 CY	83.6 CY
SURCHARGE=	0.0 CY	117.4 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	485.6 CY	0.0 CY
A.S.C.G.=	315.6 CY	306.0 CY
SURCHARGE=	0.0 CY	161.1 CY



Filename: Xsect - Ramp B.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn AJA	07\19	In Charge of RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

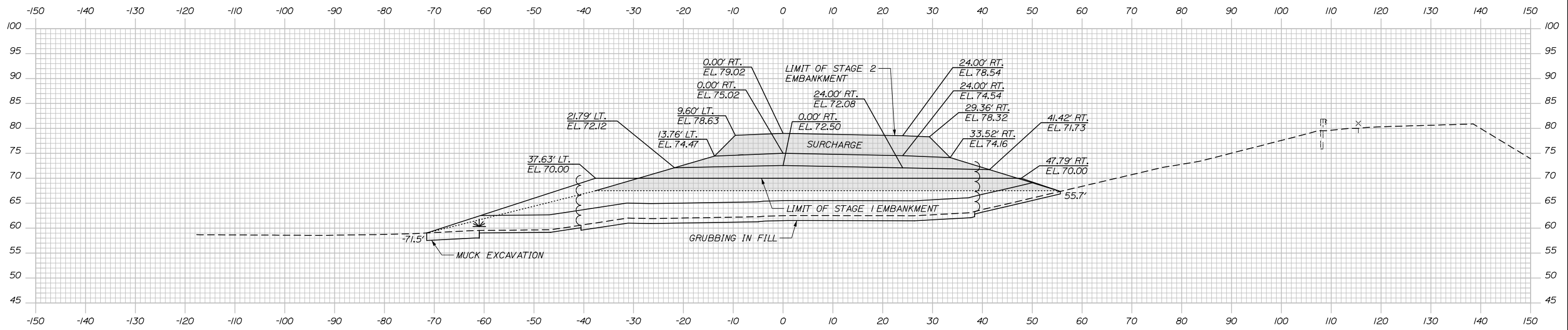
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP B**  
**STA. 203+00 TO STA. 203+50**

SHEET NUMBER: XS-43  
 CONTRACT: 2019.13  
 119 OF 173

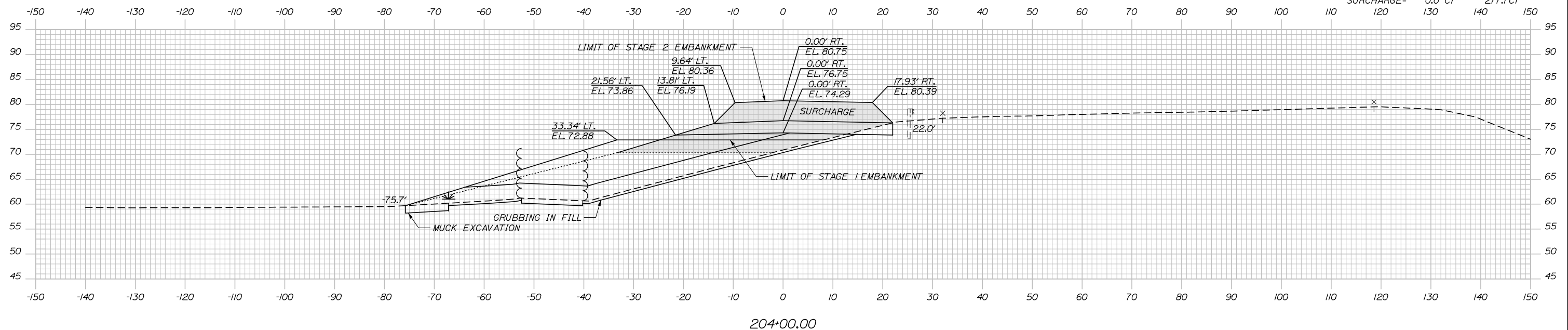
Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1098.2 CY	621.0 CY
A.S.C.G.=	678.7 CY	242.6 CY
SURCHARGE=	0.0 CY	319.4 CY



204+50.00

	STAGE 1	STAGE 2
C=	6.6 CY	0.0 CY
F=	644.5 CY	447.2 CY
A.S.C.G.=	533.6 CY	205.1 CY
SURCHARGE=	0.0 CY	277.1 CY



204+00.00

Scale:

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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THE GOLD STAR MEMORIAL HIGHWAY

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

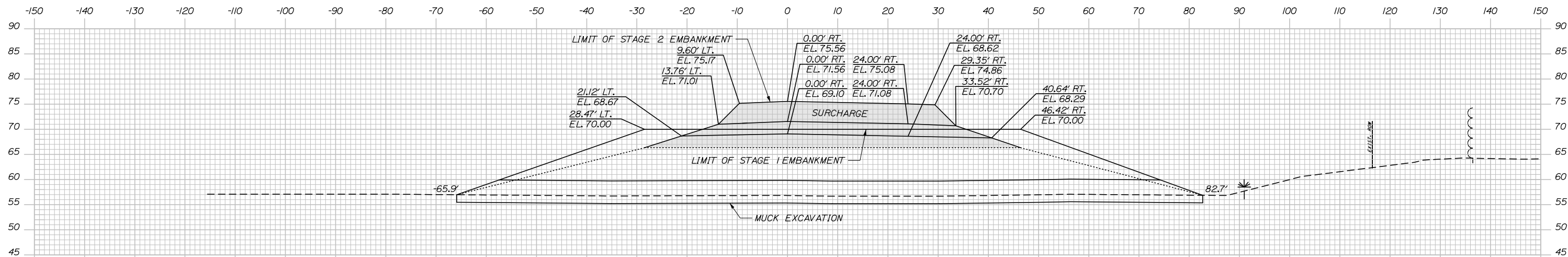
EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 204+00 TO STA. 204+50

SHEET NUMBER: XS-44  
 CONTRACT: 2019.13  
 120 OF 173

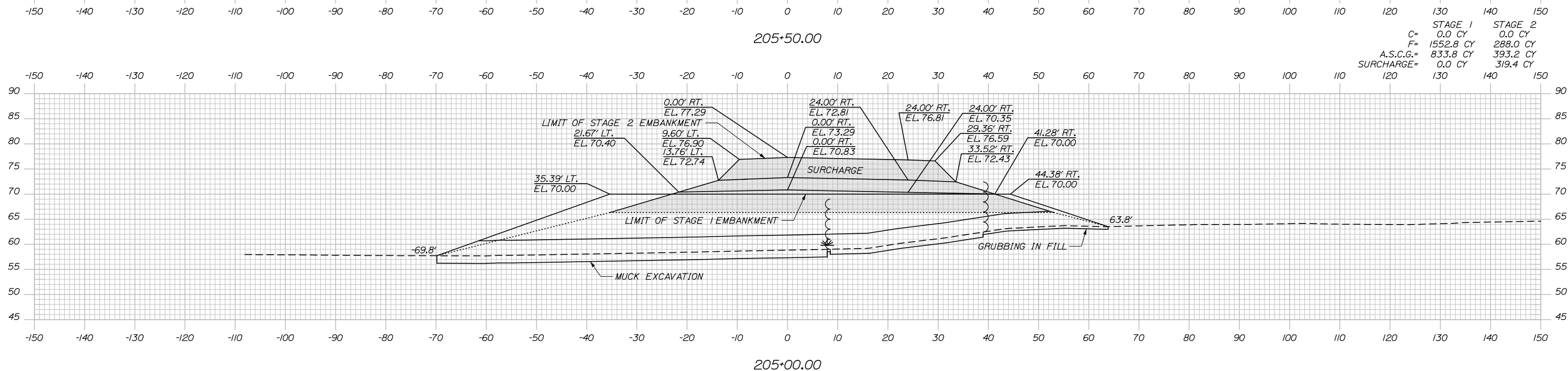


Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1600.4 CY	0.0 CY
A.S.C.G.=	928.9 CY	564.1 CY
SURCHARGE=	0.0 CY	319.4 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1552.8 CY	288.0 CY
A.S.C.G.=	833.8 CY	393.2 CY
SURCHARGE=	0.0 CY	319.4 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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THE GOLD STAR MEMORIAL HIGHWAY

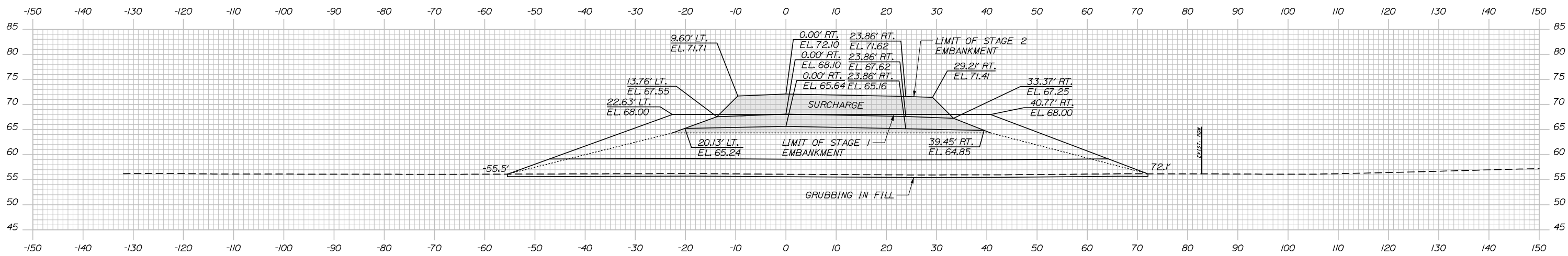
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 205+00 TO STA. 205+50

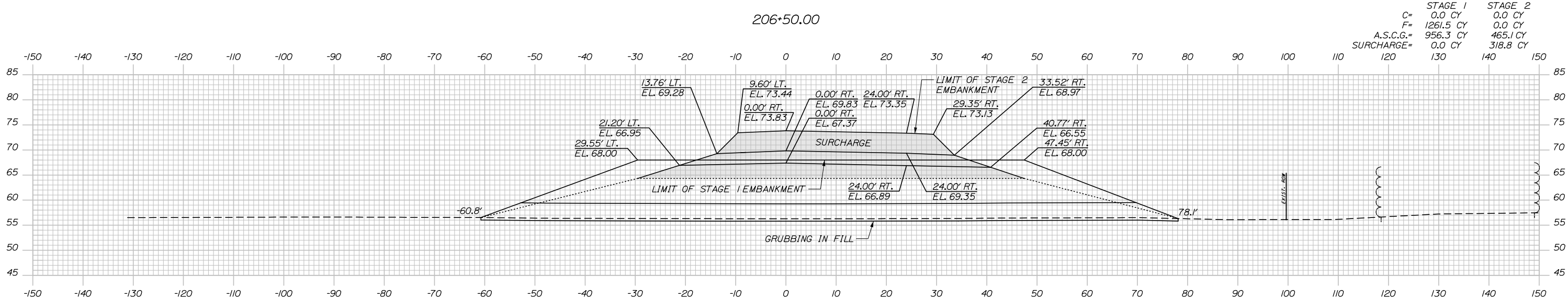
SHEET NUMBER: XS-45  
 CONTRACT: 2019.13  
 121 OF 173

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	912.4 CY	0.0 CY
A.S.C.G.=	957.9 CY	322.7 CY
SURCHARGE=	0.0 CY	293.6 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1261.5 CY	0.0 CY
A.S.C.G.=	956.3 CY	465.1 CY
SURCHARGE=	0.0 CY	318.8 CY



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

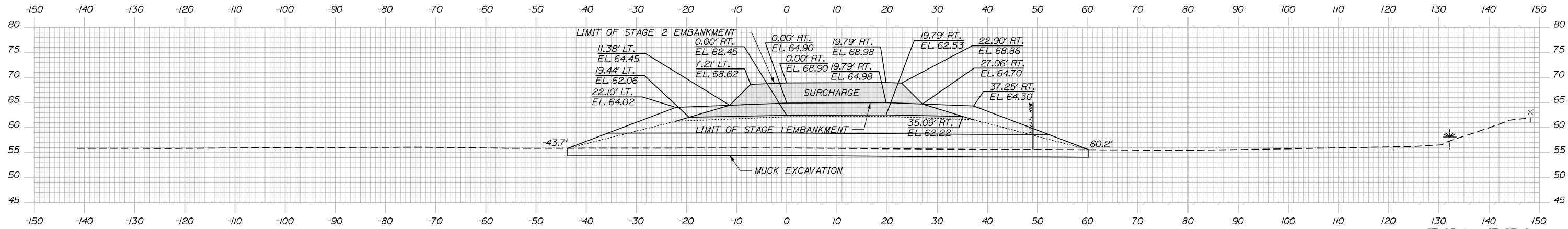
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP B**  
**STA. 206+00 TO STA. 206+50**

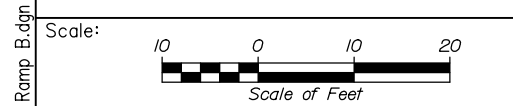
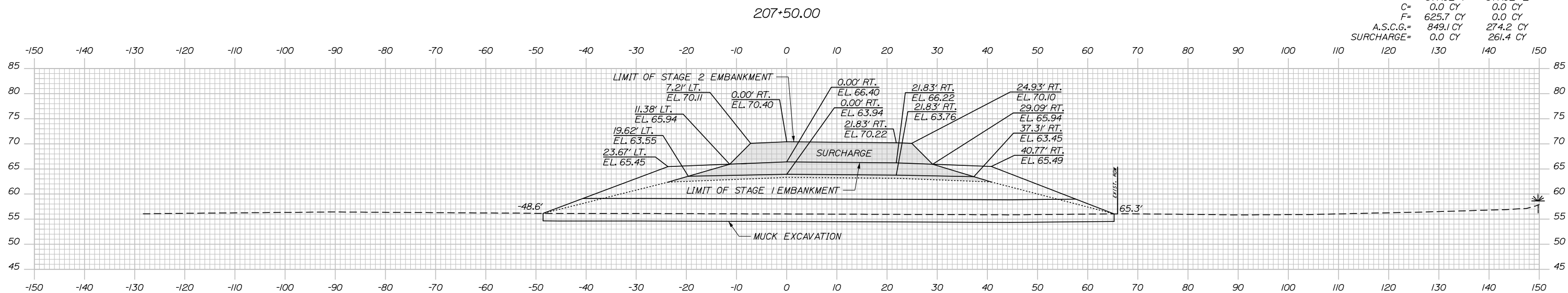
SHEET NUMBER: XS-46  
 CONTRACT: 2019.13  
 122 OF 173

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	417.1 CY	0.0 CY
A.S.C.G.=	778.6 CY	124.5 CY
SURCHARGE=	192.7 CY	127.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	625.7 CY	0.0 CY
A.S.C.G.=	849.1 CY	274.2 CY
SURCHARGE=	0.0 CY	261.4 CY



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP B**  
**STA. 207+00 TO STA. 207+50**

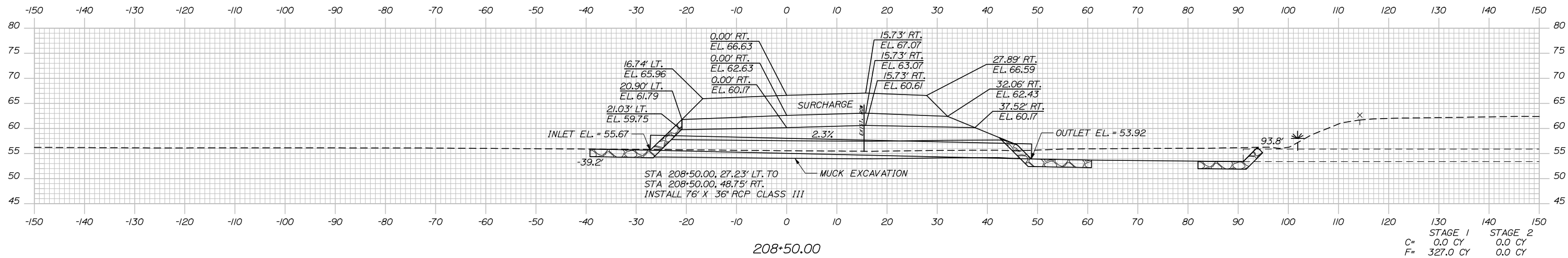
SHEET NUMBER: XS-47  
 123 OF 173

CONTRACT: 2019.13

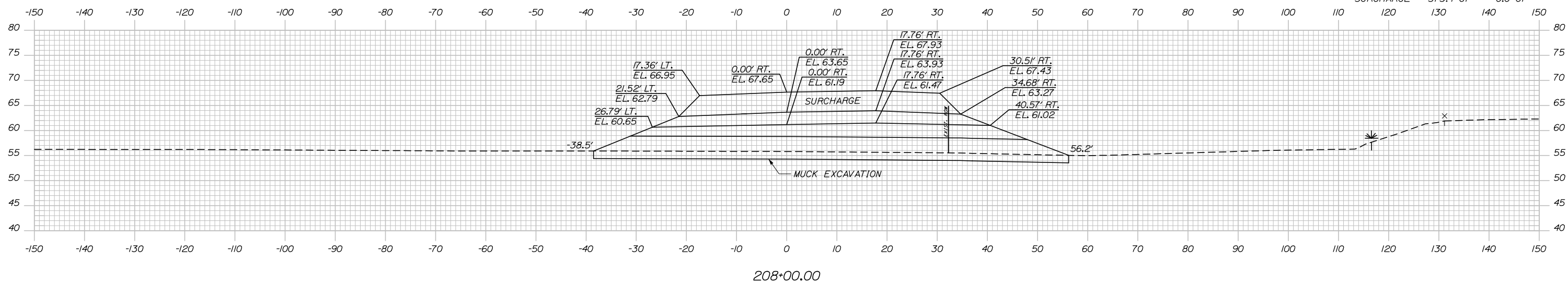
Filename: Xsect - Ramp B.dgn

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	162.8 CY	0.0 CY
A.S.C.G.=	652.5 CY	0.0 CY
SURCHARGE=	383.5 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	327.0 CY	0.0 CY
A.S.C.G.=	642.9 CY	0.0 CY
SURCHARGE=	373.4 CY	0.0 CY



Scale:

Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP B  
STA. 208+00 TO STA. 208+50**

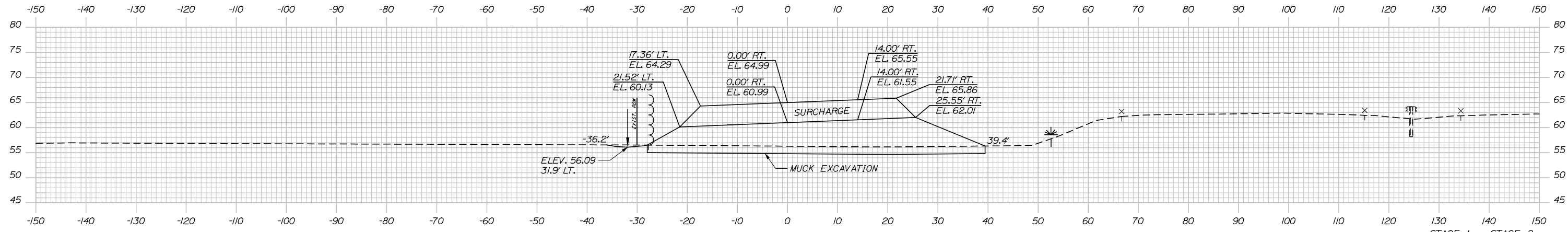
SHEET NUMBER: XS-48

CONTRACT: 2019.13

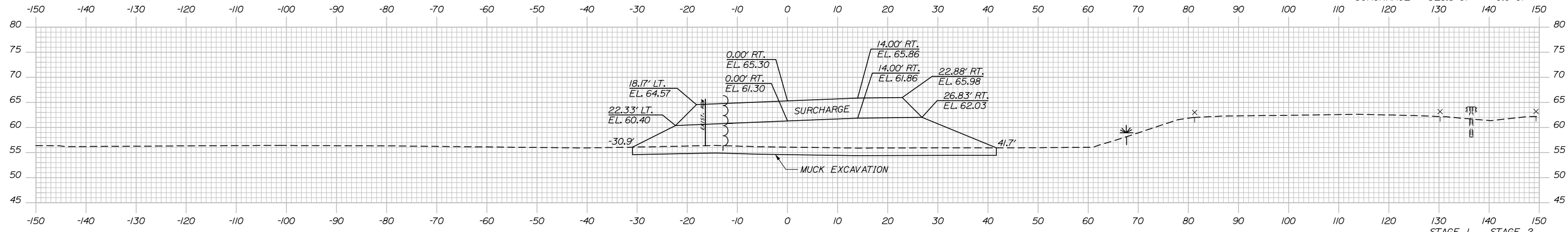
124 OF 173

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	522.8 CY	0.0 CY
SURCHARGE=	320.2 CY	0.0 CY

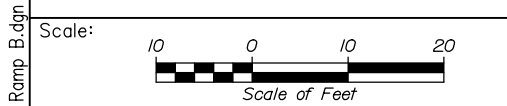
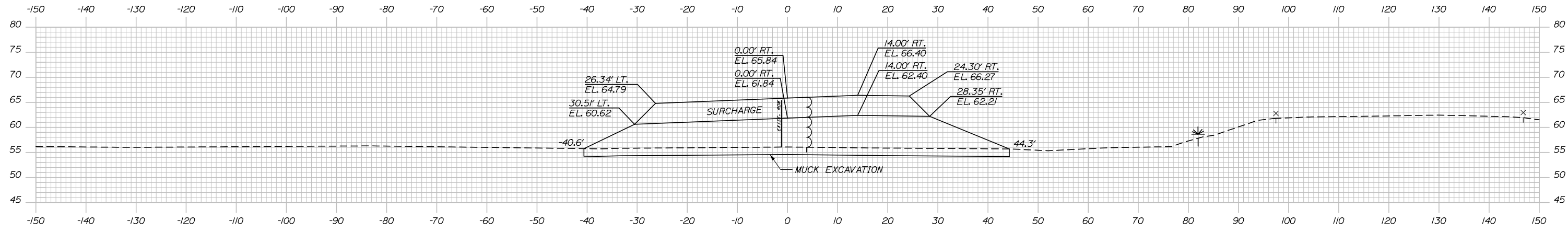
Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	554.1 CY	0.0 CY
SURCHARGE=	326.6 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	679.9 CY	0.0 CY
SURCHARGE=	369.8 CY	0.0 CY



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 209+00 TO STA. 210+00

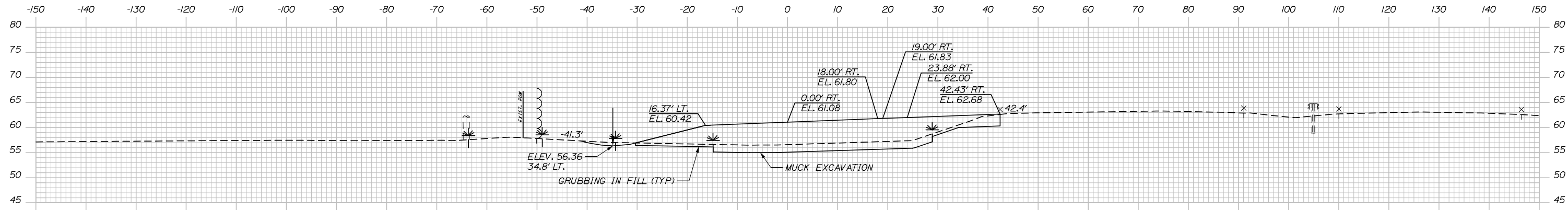
SHEET NUMBER: XS-49  
 125 OF 173

CONTRACT: 2019.13

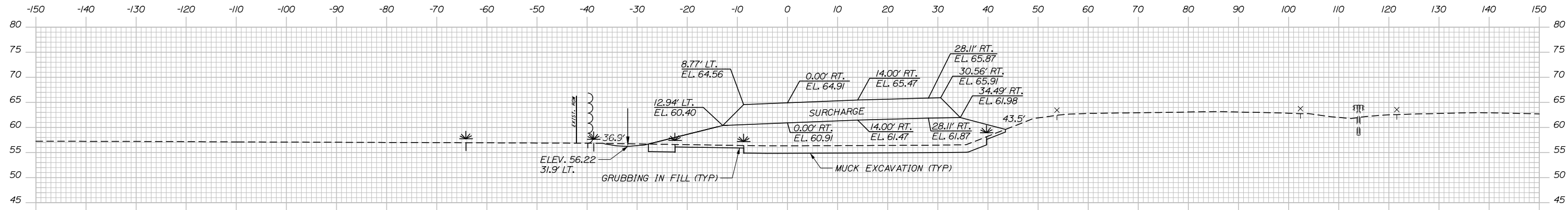
Filename: Xsect - Ramp B.dgn

Date: 7/26/2019

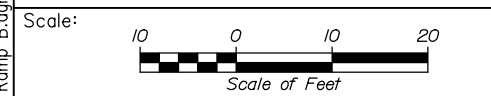
	STAGE 1	STAGE 2
C=	36.4 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	396.9 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	9.2 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	501.3 CY	0.0 CY
SURCHARGE=	160.6 CY	0.0 CY



Filename: Xsect - Ramp B.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

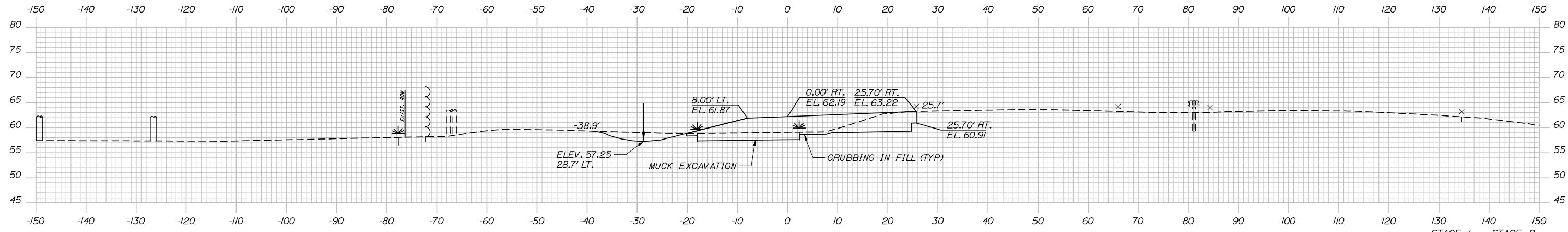
EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP B  
STA. 210+41 TO STA. 211+00

SHEET NUMBER: XS-50  
126 OF 173

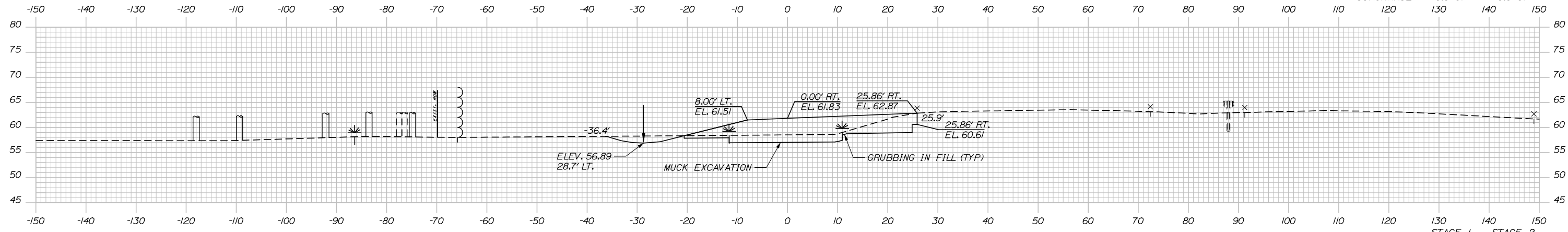
CONTRACT: 2019.13

Date: 7/26/2019

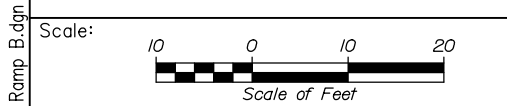
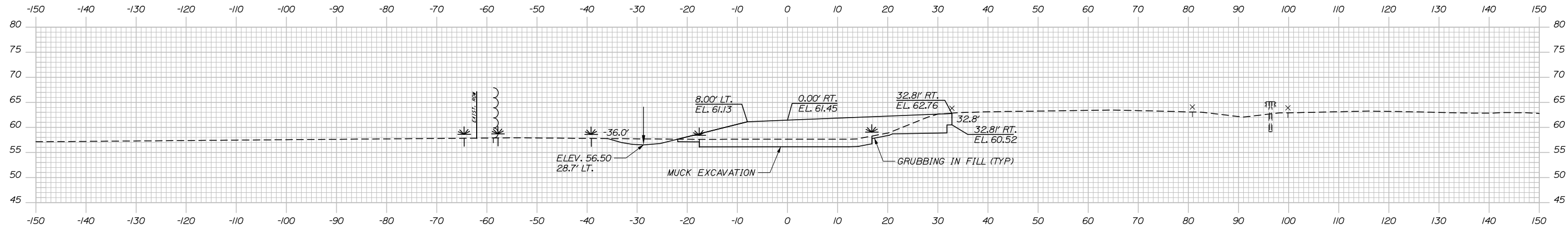
	STAGE 1	STAGE 2
C=	89.6 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	234.3 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	75.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	235.4 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	57.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	281.5 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



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By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

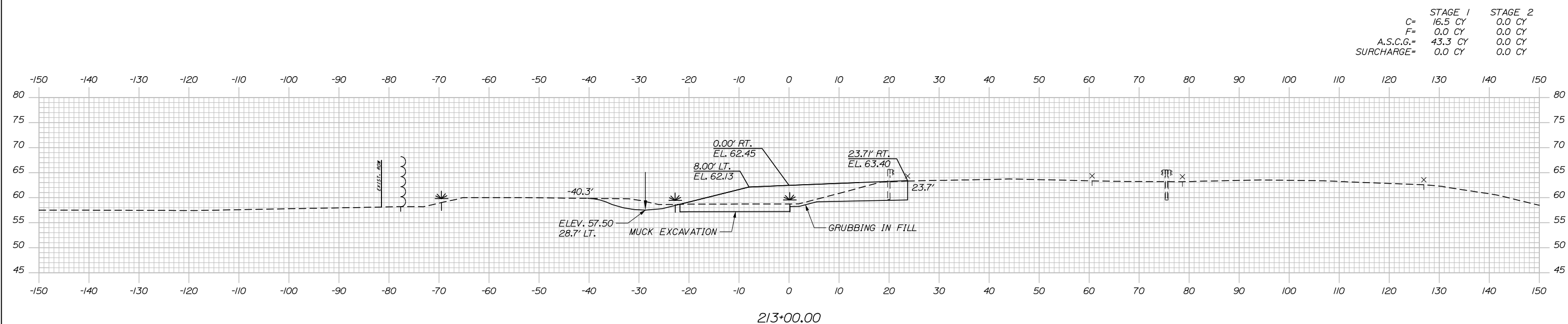
EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP B  
 STA. 211+50 TO STA. 212+50

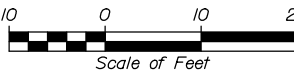
SHEET NUMBER: XS-51  
 127 OF 173

CONTRACT: 2019.13

Filename: Xsect - Ramp B.dgn

Date: 7/26/2019



Scale:  Scale of Feet

No.	Revision	By	Date


Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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 **THE GOLD STAR MEMORIAL HIGHWAY**

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

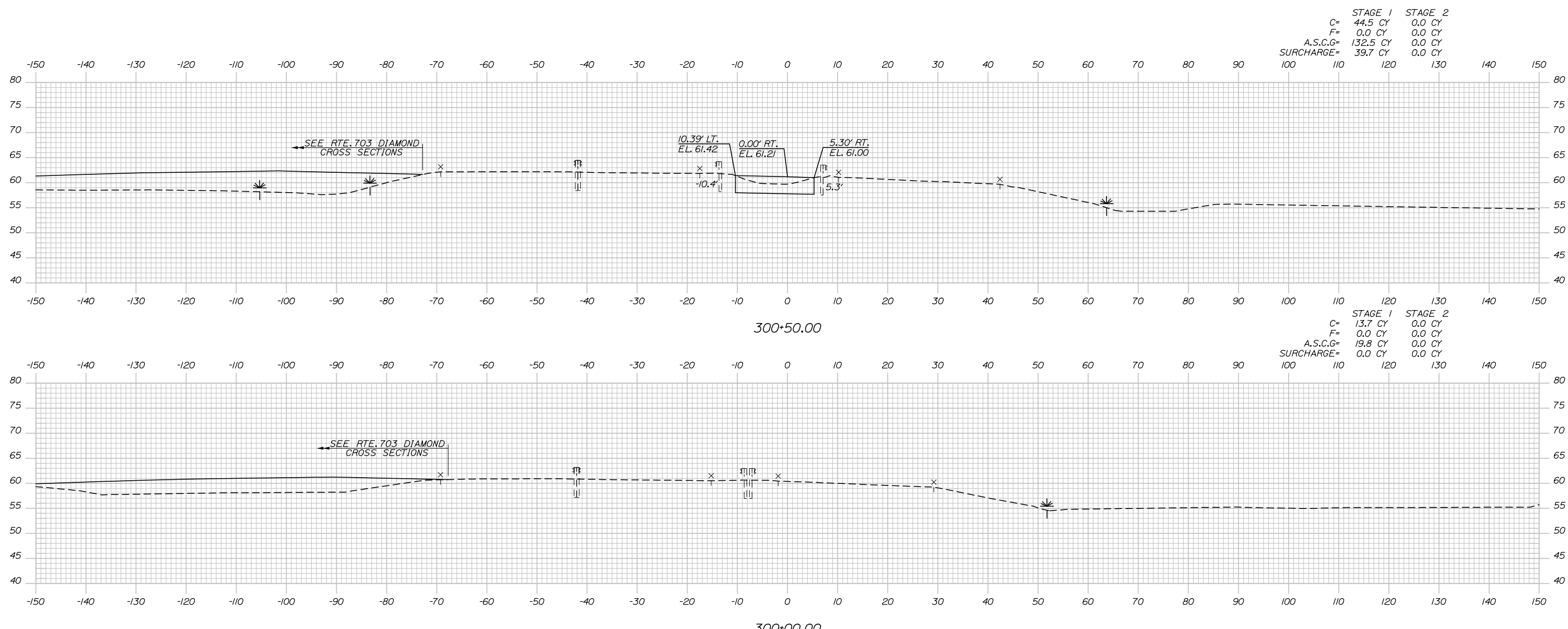
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS – RAMP B**  
**STA. 213+00**

SHEET NUMBER: XS-52  
 128 OF 173

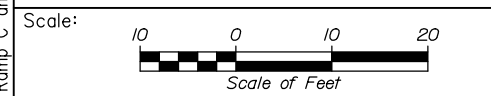
CONTRACT: 2019.13



Date: 7/26/2019



Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
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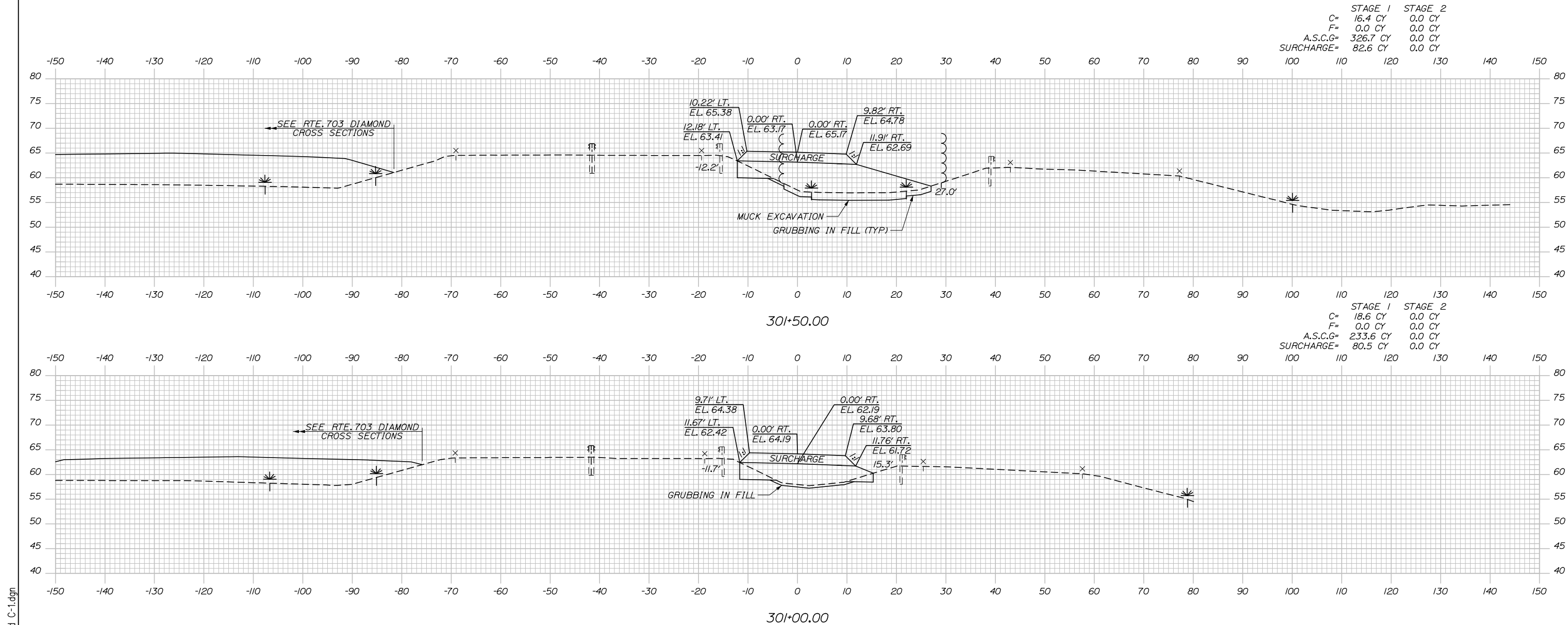
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 300+00 TO STA. 300+50**

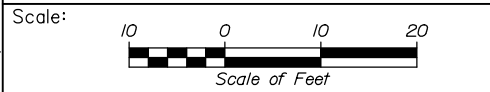
SHEET NUMBER: XS-53  
 129 OF 173

CONTRACT: 2019.13

Date: 7/26/2019



Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
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MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 301+00 TO STA. 301+50**

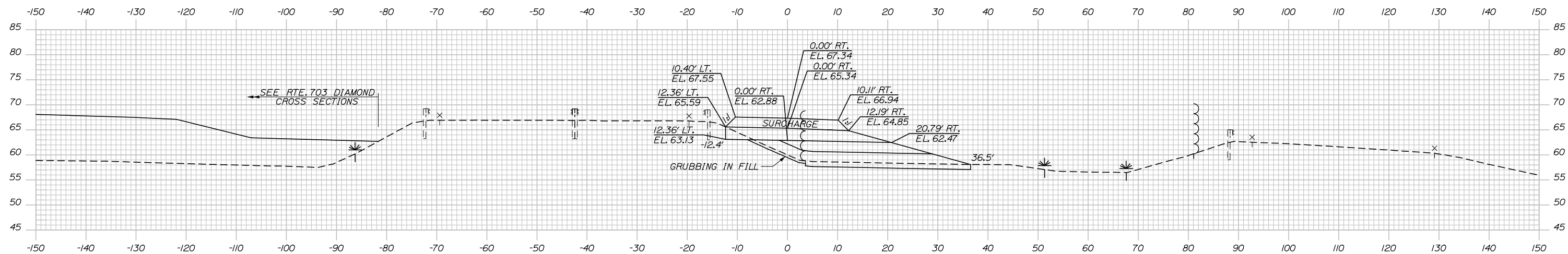
SHEET NUMBER: XS-54  
 130 OF 173

CONTRACT: 2019.13

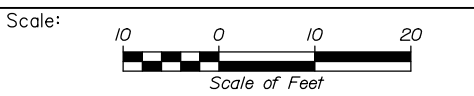
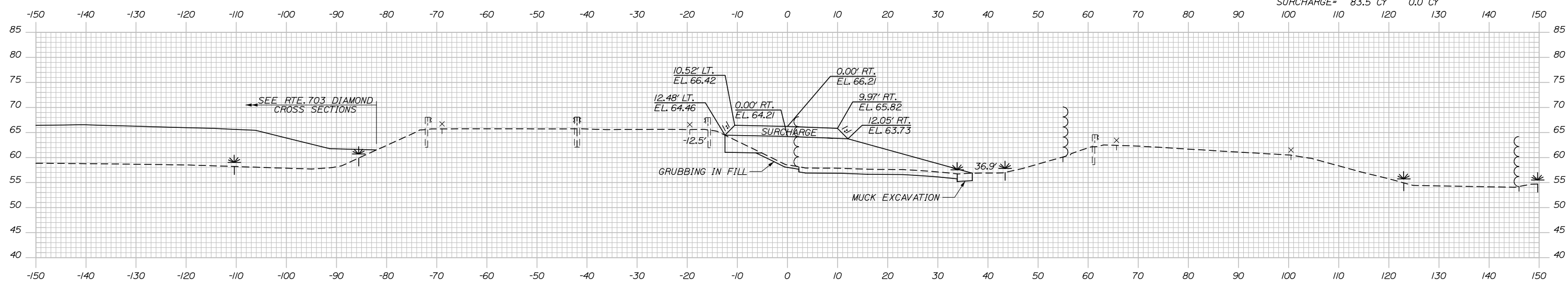
Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn

	STAGE 1	STAGE 2
C=	7.5 CY	0.0 CY
F=	125.2 CY	0.0 CY
A.S.C.G=	276.0 CY	0.0 CY
SURCHARGE=	90.2 CY	0.0 CY



	STAGE 1	STAGE 2
C=	12.0 CY	0.0 CY
F=	46.5 CY	0.0 CY
A.S.C.G=	306.6 CY	0.0 CY
SURCHARGE=	83.5 CY	0.0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

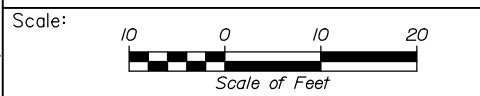
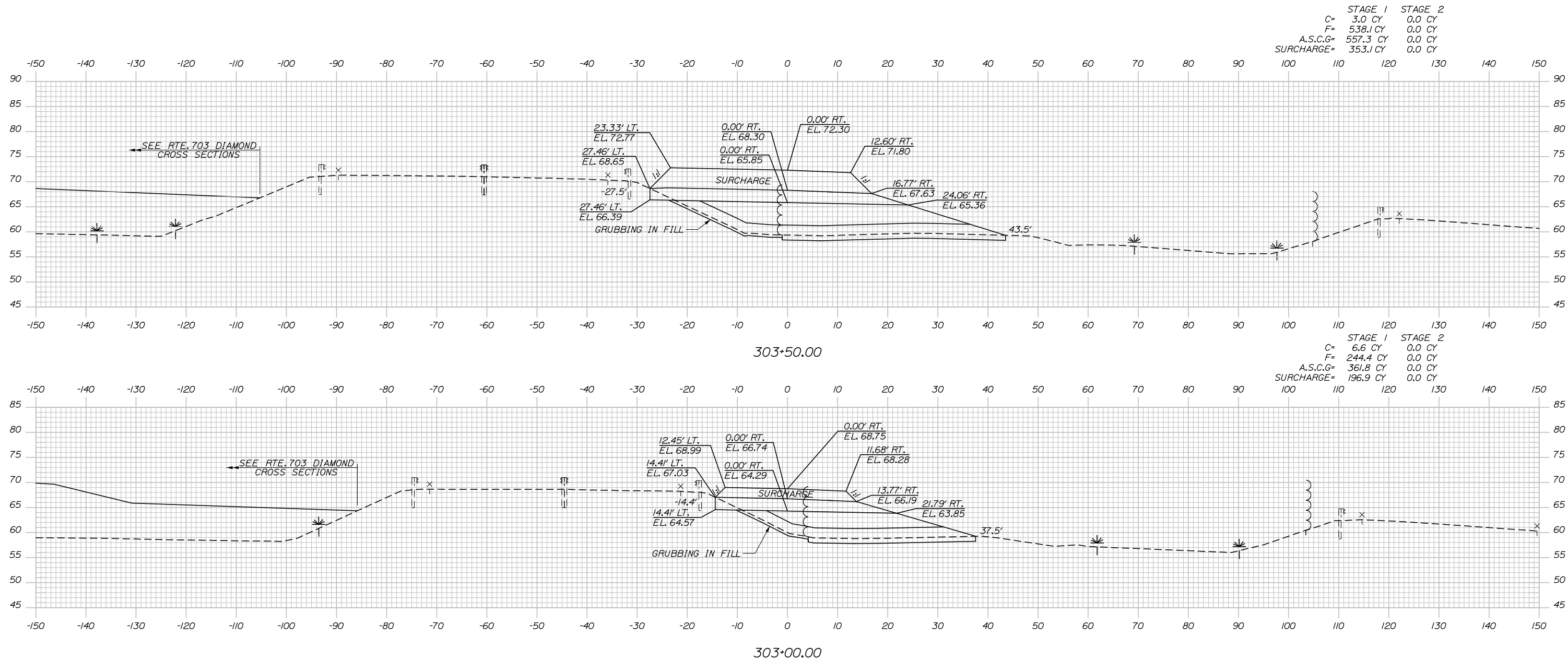
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 302+00 TO STA. 302+50**

SHEET NUMBER: XS-55  
 CONTRACT: 2019.13  
 131 OF 173

Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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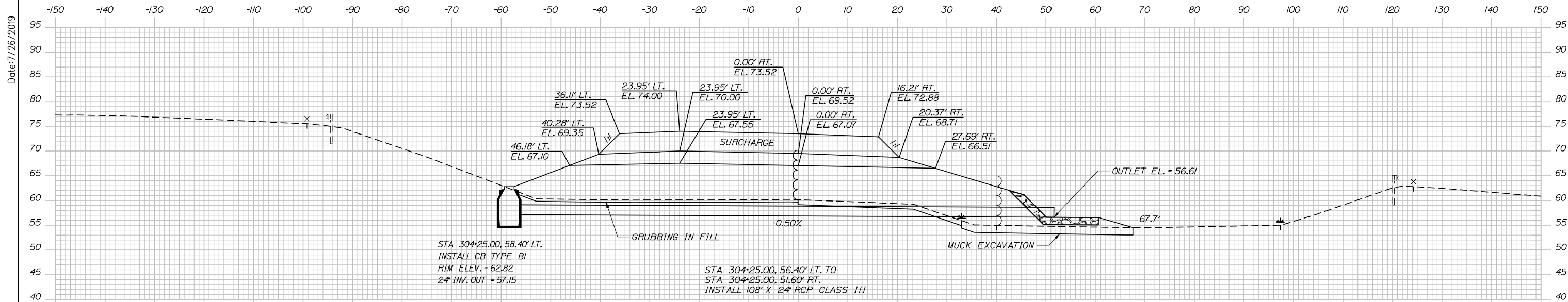
THE GOLD STAR  
MEMORIAL HIGHWAY

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

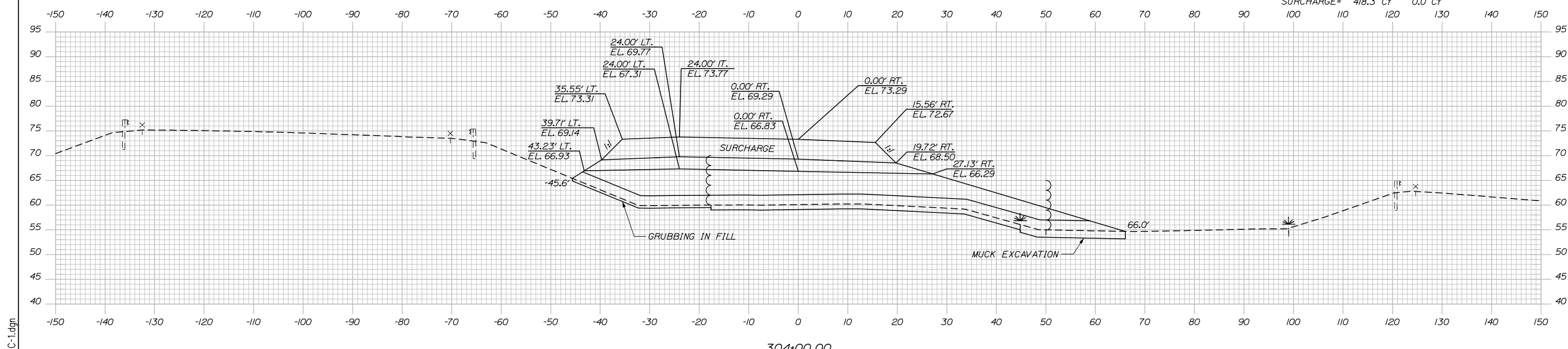
EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 303+00 TO STA. 303+50

SHEET NUMBER: XS-56  
 CONTRACT: 2019.13  
 132 OF 173

Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	941.9 CY	0.0 CY
A.S.C.G=	719.7 CY	0.0 CY
SURCHARGE=	418.3 CY	0.0 CY



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

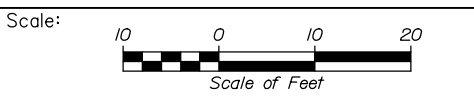
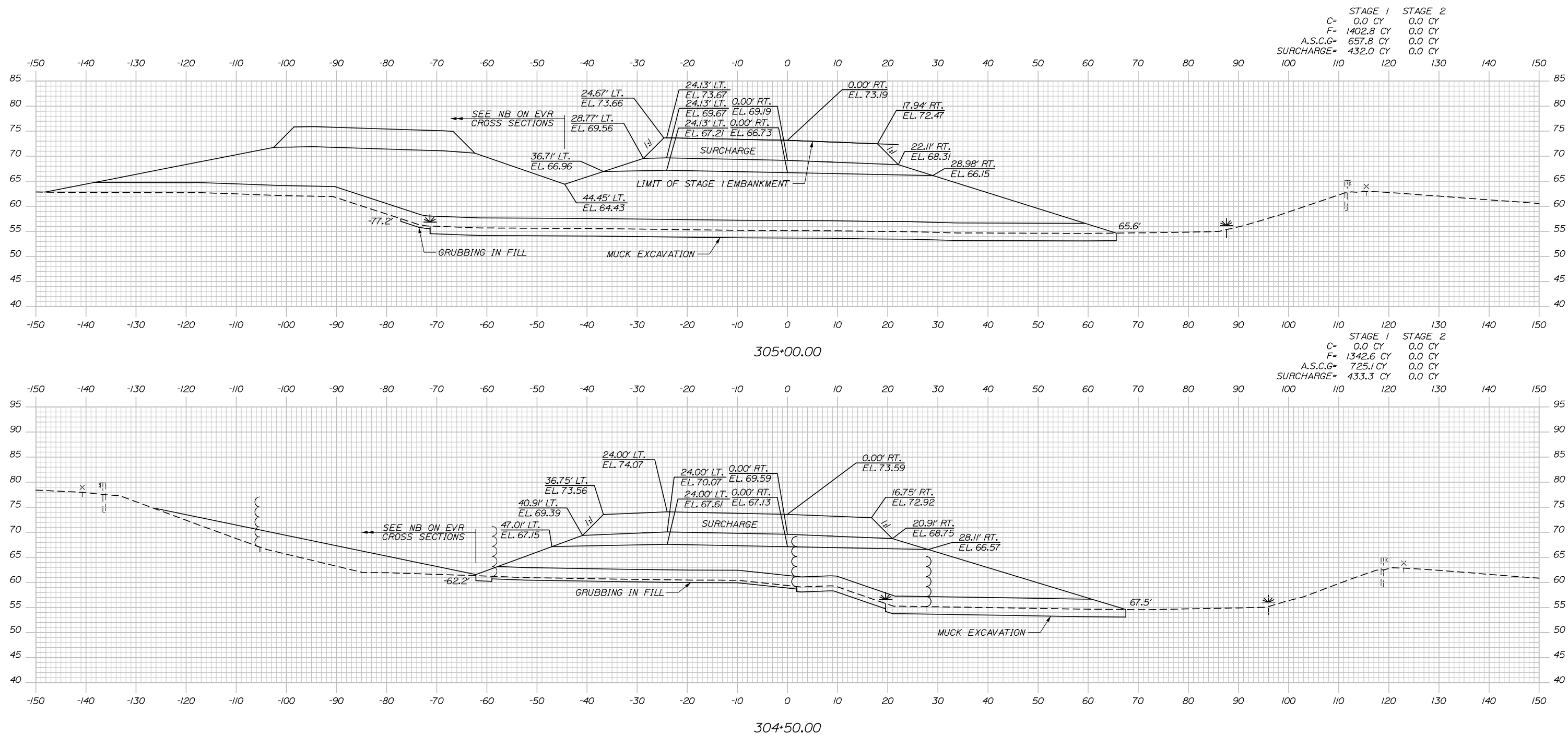
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 304+00 TO STA. 304+25**

SHEET NUMBER: XS-57  
CONTRACT: 2019.13  
133 OF 173

Filename: Xsect - Ramp C and C-1.dgn

Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

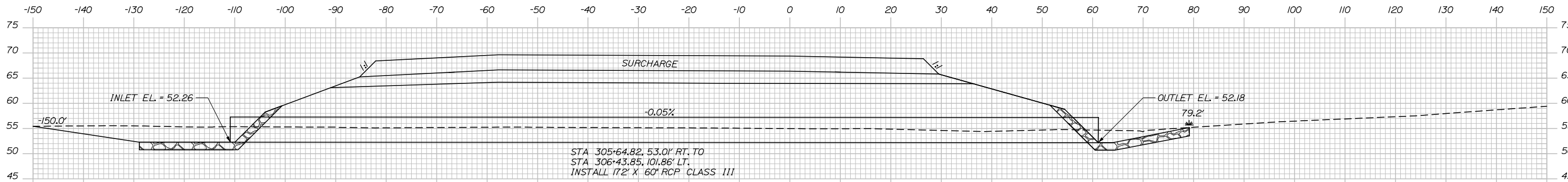
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 304+50 TO STA. 305+00**

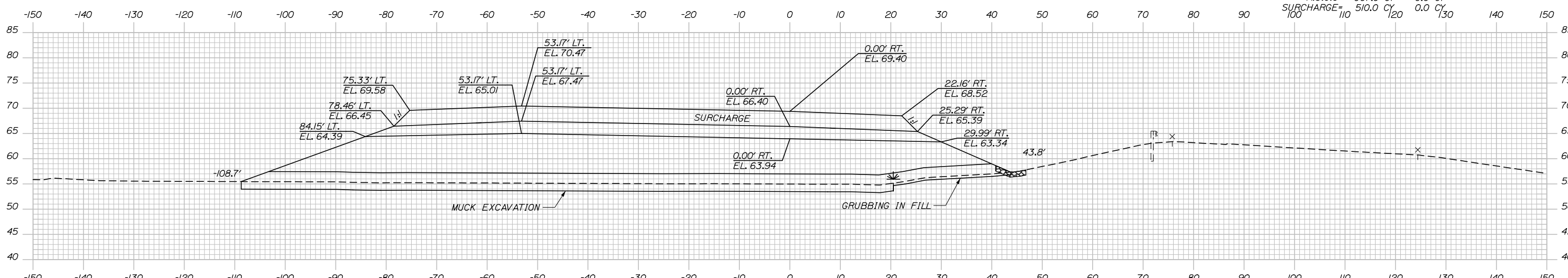
SHEET NUMBER: XS-58  
 CONTRACT: 2019.13  
 134 OF 173

Date: 7/26/2019

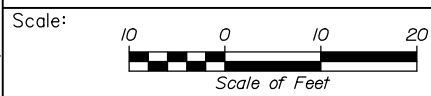
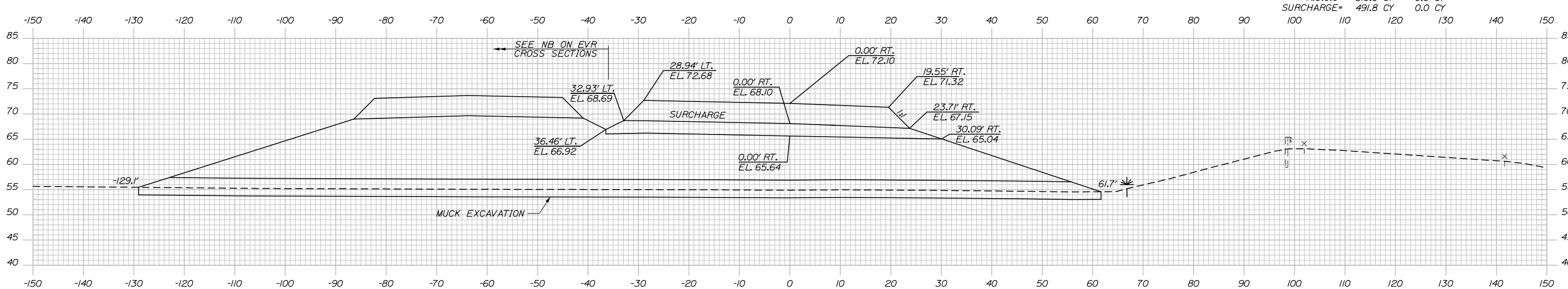
Filename: Xsect - Ramp C and C-1.dgn



	STAGE 1	STAGE 2
C=	0.6 CY	0.0 CY
F=	1111.7 CY	0.0 CY
A.S.C.G=	907.9 CY	0.0 CY
SURCHARGE=	510.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1402.8 CY	0.0 CY
A.S.C.G=	819.0 CY	0.0 CY
SURCHARGE=	491.8 CY	0.0 CY



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THE GOLD STAR  
MEMORIAL HIGHWAY

EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP C  
STA. 305+50 TO STA. 306+00.31

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.					
No.	Revision	By	Date	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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

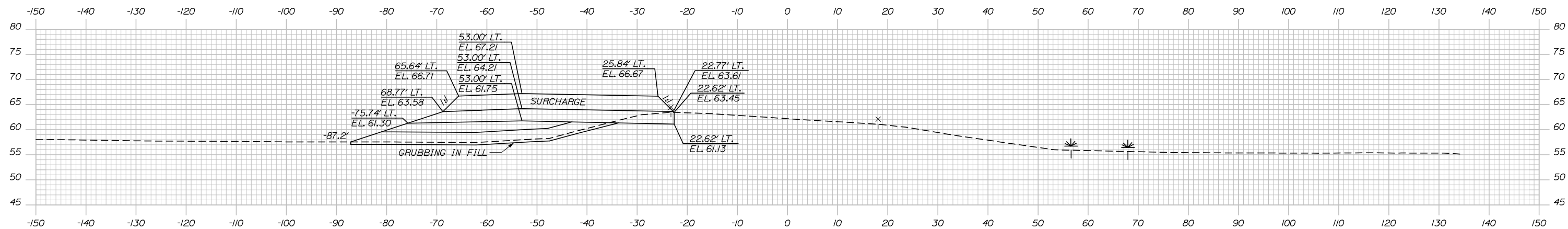
CONTRACT: 2019.13

SHEET NUMBER: XS-59

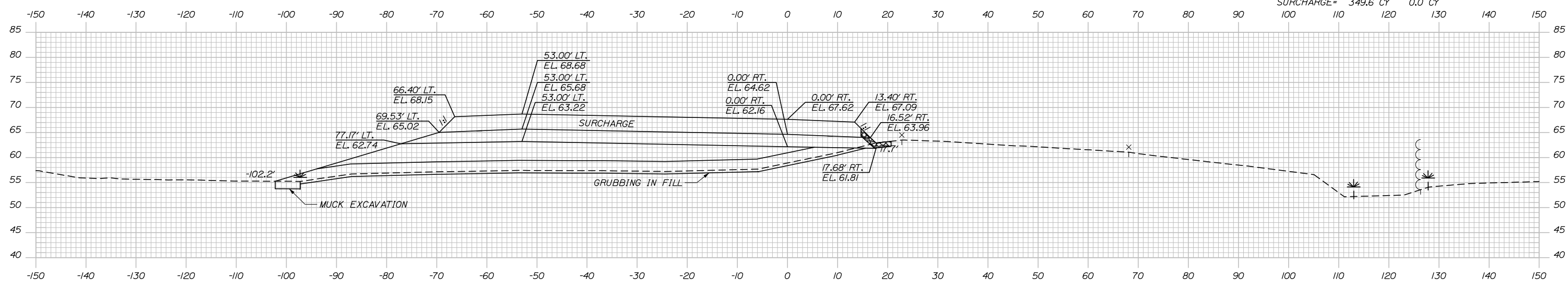
135 OF 173

Date: 7/26/2019

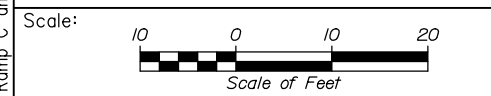
	STAGE 1	STAGE 2
C=	10.9 CY	0.0 CY
F=	55.9 CY	0.0 CY
A.S.C.G=	393.3 CY	0.0 CY
SURCHARGE=	244.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	11.4 CY	0.0 CY
F=	325.7 CY	0.0 CY
A.S.C.G=	586.7 CY	0.0 CY
SURCHARGE=	349.6 CY	0.0 CY



Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

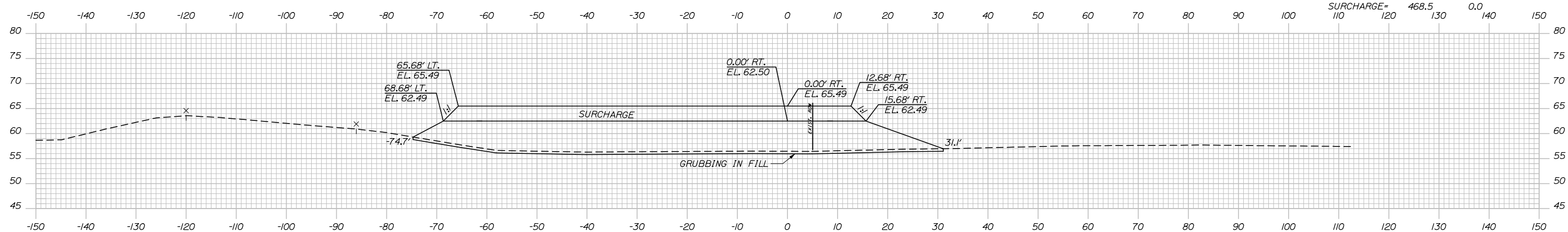
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 306+50 TO STA. 307+00**

SHEET NUMBER: XS-60  
 CONTRACT: 2019.13  
 136 OF 173

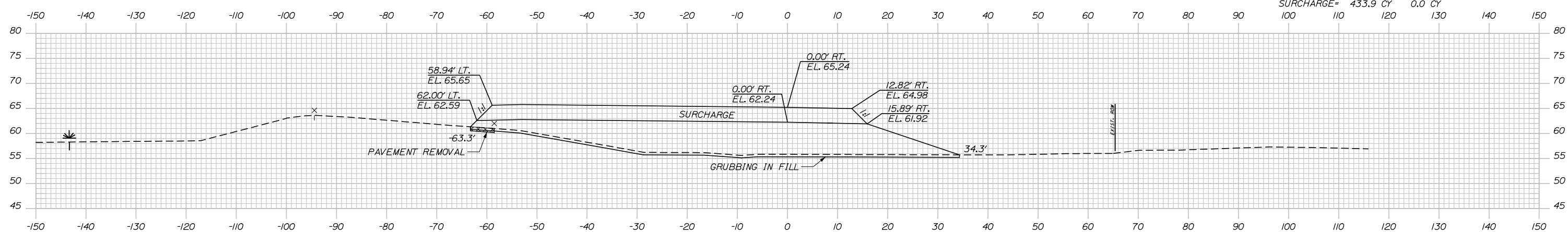


Date: 7/26/2019

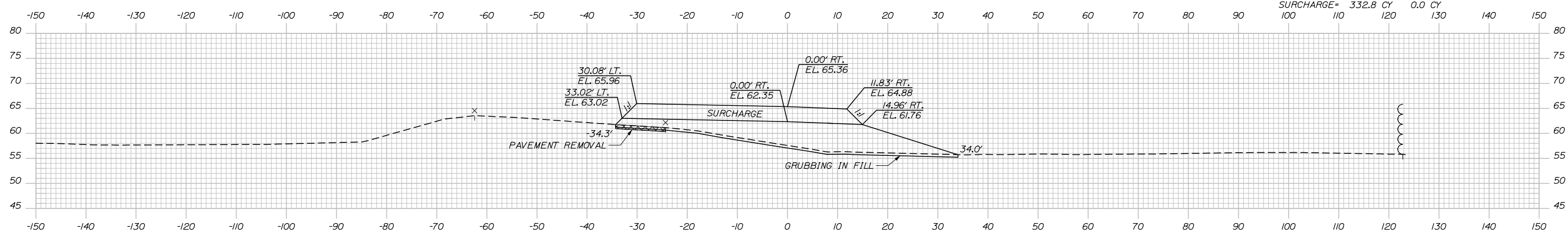
	STAGE 1	STAGE 2
C=	0.0	0.0
F=	0.2	0.0
A.S.C.G=	1048.3	0.0
SURCHARGE=	468.5	0.0



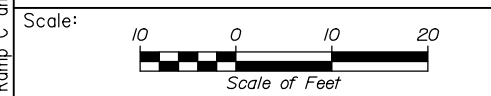
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	940.9 CY	0.0 CY
SURCHARGE=	433.9 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	632.6 CY	0.0 CY
SURCHARGE=	332.8 CY	0.0 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

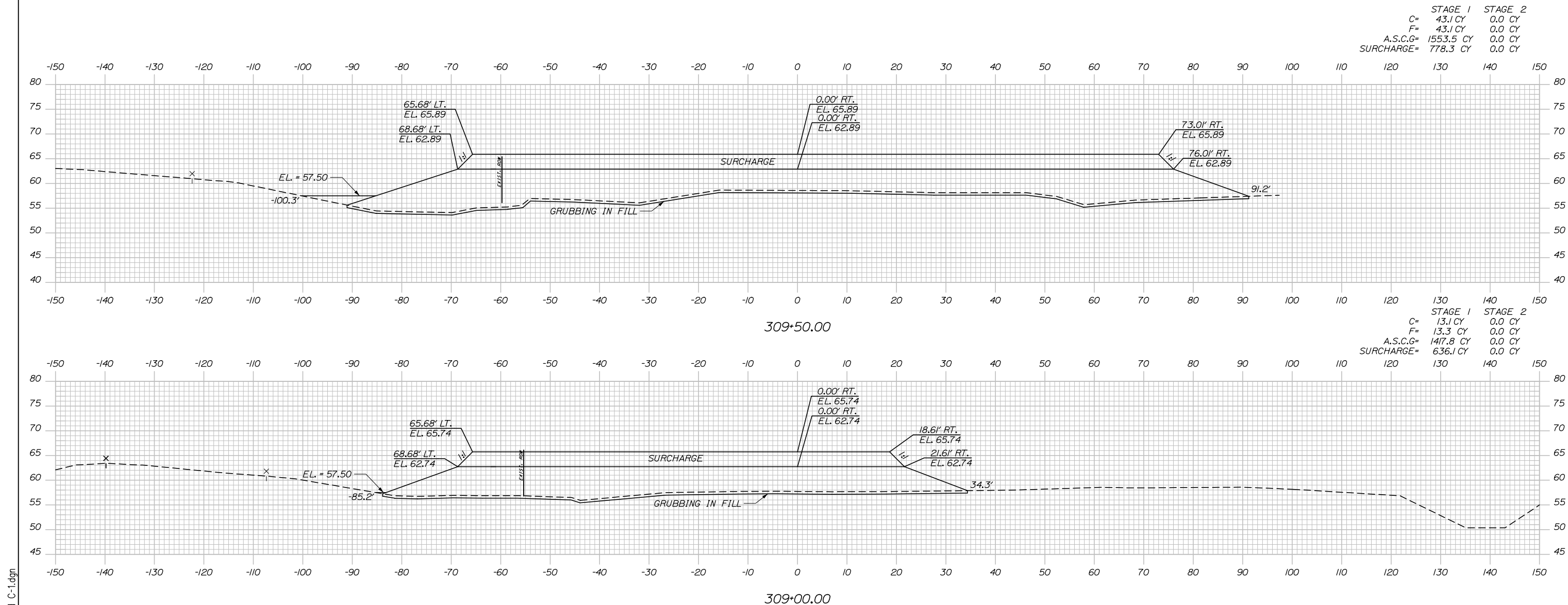
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 307+50 TO STA. 308+50

SHEET NUMBER: XS-61  
 137 OF 173

CONTRACT: 2019.13

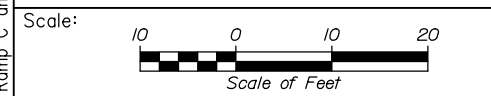
Date: 7/26/2019



	STAGE 1	STAGE 2
C=	43.1 CY	0.0 CY
F=	43.1 CY	0.0 CY
A.S.C.G=	1553.5 CY	0.0 CY
SURCHARGE=	778.3 CY	0.0 CY

	STAGE 1	STAGE 2
C=	13.1 CY	0.0 CY
F=	13.3 CY	0.0 CY
A.S.C.G=	1417.8 CY	0.0 CY
SURCHARGE=	636.1 CY	0.0 CY

Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

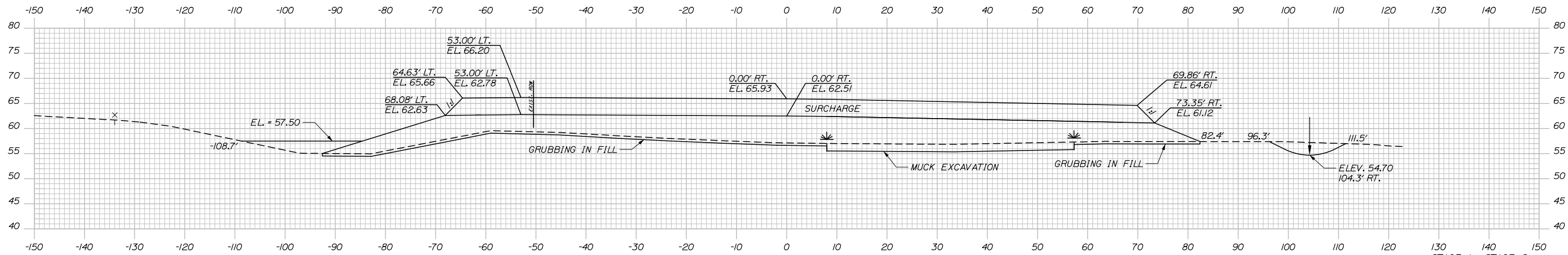
**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 309+00 TO STA. 309+50**

SHEET NUMBER: XS-62  
 138 OF 173

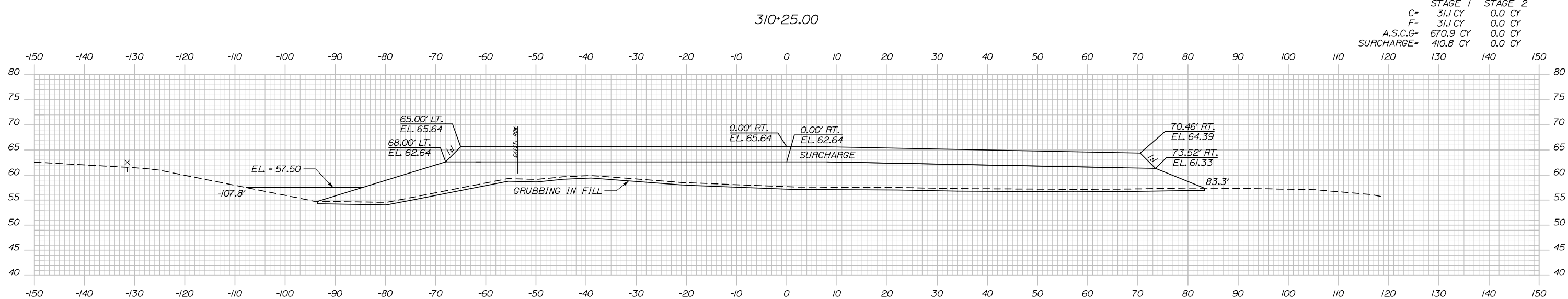
CONTRACT: 2019.13

Date: 7/26/2019

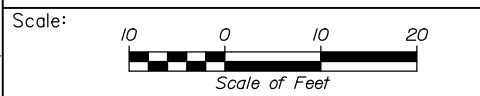
	STAGE 1	STAGE 2
C=	32.3 CY	0.0 CY
F=	32.3 CY	0.0 CY
A.S.C.G=	684.2 CY	0.0 CY
SURCHARGE=	711.7 CY	0.0 CY



	STAGE 1	STAGE 2
C=	31.1 CY	0.0 CY
F=	31.1 CY	0.0 CY
A.S.C.G=	670.9 CY	0.0 CY
SURCHARGE=	410.8 CY	0.0 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS	In Charge of	RAL
	07\19		07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 310+00 TO STA. 310+25

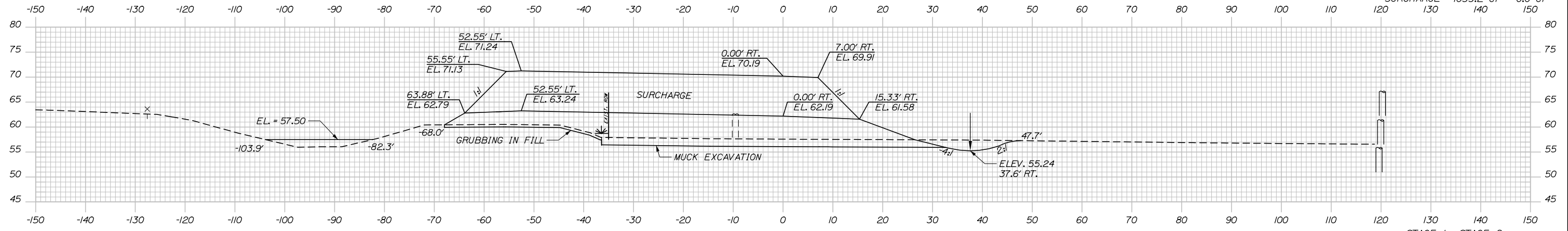
SHEET NUMBER: XS-63  
 139 OF 173

CONTRACT: 2019.13

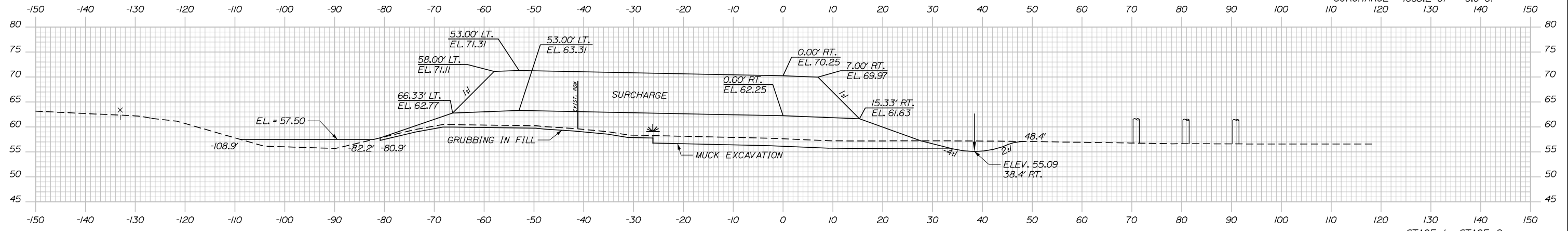
Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn

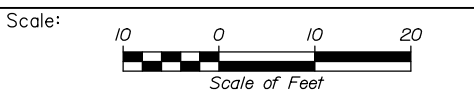
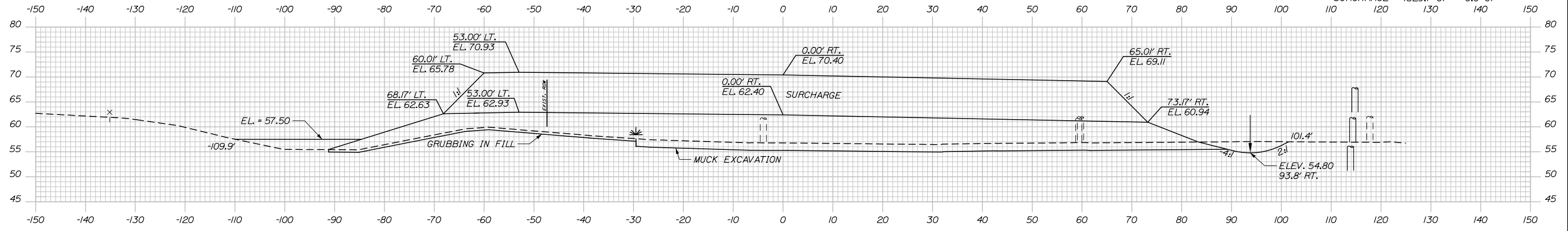
STAGE 1 STAGE 2  
 C= 26.1 CY 0.0 CY  
 F= 36.7 CY 0.0 CY  
 A.S.C.G= 627.2 CY 0.0 CY  
 SURCHARGE= 1033.2 CY 0.0 CY



STAGE 1 STAGE 2  
 C= 6.8 CY 0.0 CY  
 F= 51.3 CY 0.0 CY  
 A.S.C.G= 662.2 CY 0.0 CY  
 SURCHARGE= 1068.2 CY 0.0 CY



STAGE 1 STAGE 2  
 C= 7.3 CY 0.0 CY  
 F= 62.7 CY 0.0 CY  
 A.S.C.G= 1032.4 CY 0.0 CY  
 SURCHARGE= 1529.7 CY 0.0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

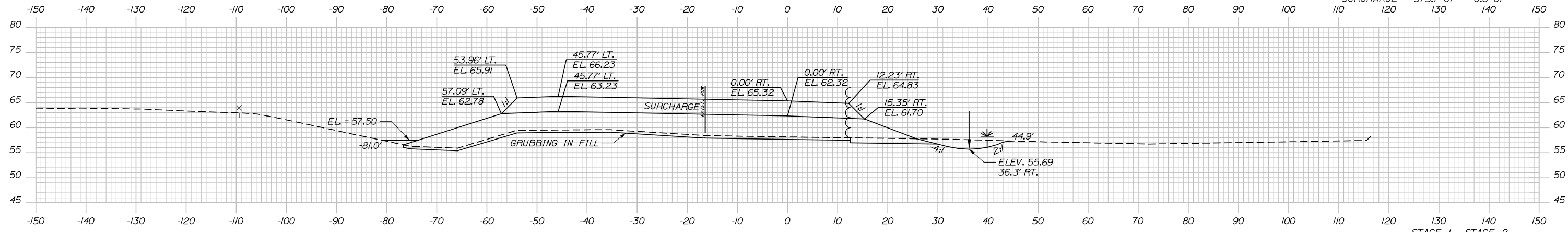
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 310+50 TO STA. 311+50

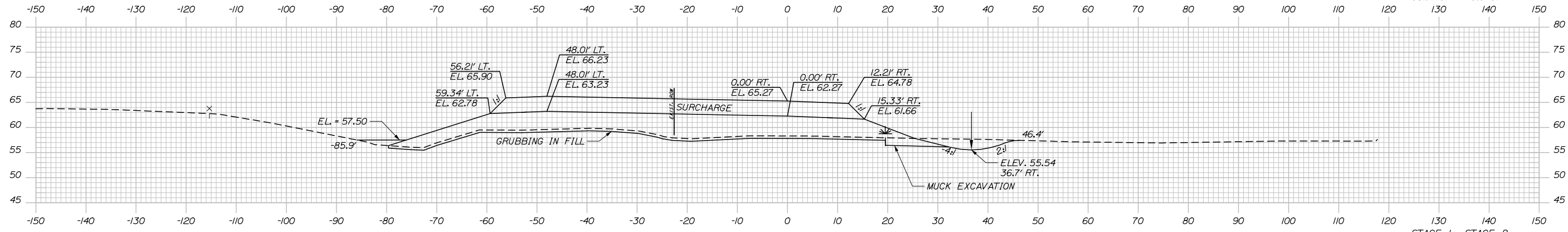
SHEET NUMBER: XS-64  
 CONTRACT: 2019.13  
 140 OF 173

Date: 7/26/2019

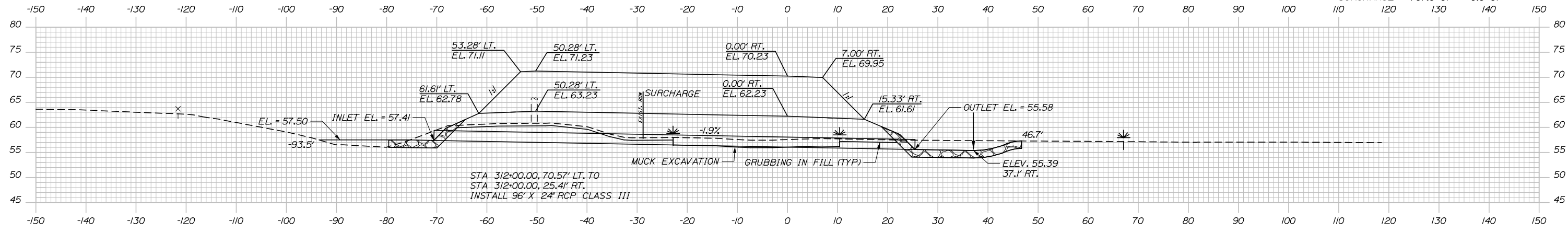
	STAGE 1	STAGE 2
C=	13.1 CY	0.0 CY
F=	3.7 CY	0.0 CY
A.S.C.G=	647.6 CY	0.0 CY
SURCHARGE=	375.7 CY	0.0 CY



	STAGE 1	STAGE 2
C=	9.2 CY	0.0 CY
F=	9.0 CY	0.0 CY
A.S.C.G=	658.5 CY	0.0 CY
SURCHARGE=	391.4 CY	0.0 CY

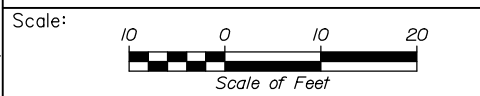


	STAGE 1	STAGE 2
C=	25.9 CY	0.0 CY
F=	21.6 CY	0.0 CY
A.S.C.G=	625.8 CY	0.0 CY
SURCHARGE=	707.0 CY	0.0 CY



STA 312+00.00, 70.57' LT. TO  
 STA 312+00.00, 25.41' RT.  
 INSTALL 96" X 24" RCP CLASS III

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

Designed	By	Date	Checked	By	Date
	EDD	07\19		JRH	07\19
Drawn	By	Date	In Charge of	By	Date
	AJS	07\19		RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 312+00 TO STA. 313+00

SHEET NUMBER: XS-65  
 141 OF 173

CONTRACT: 2019.13

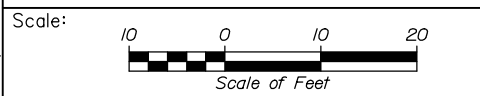
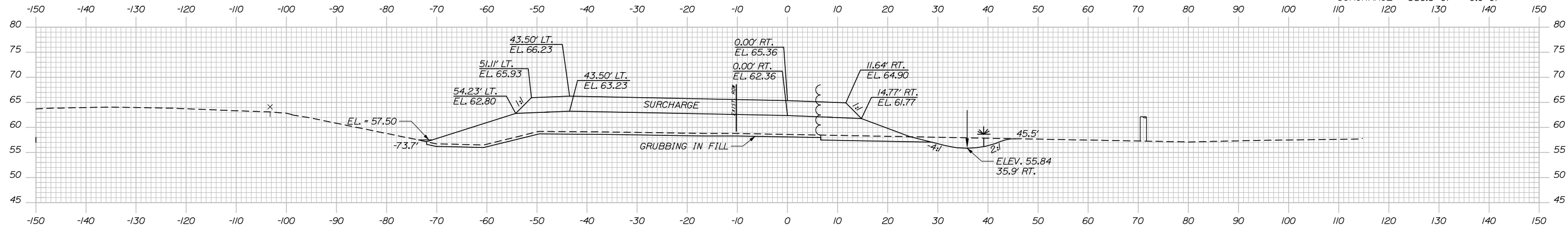
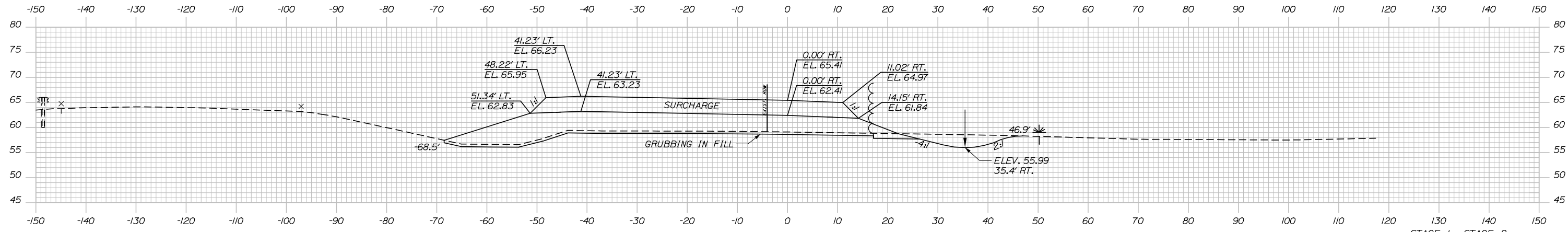
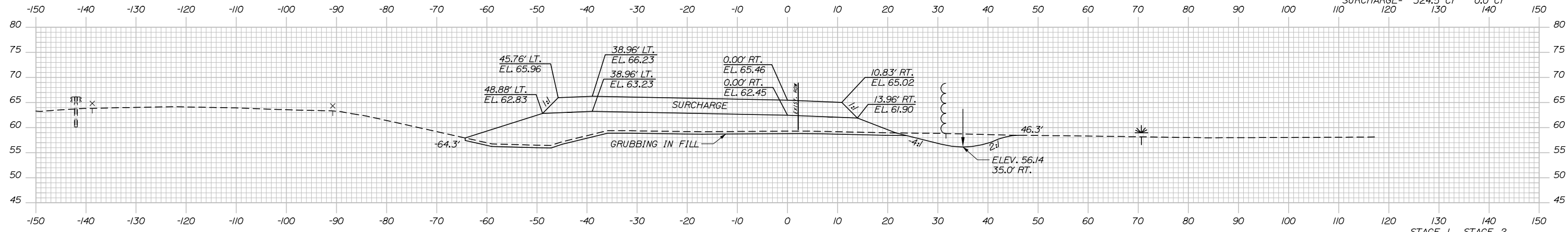
Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn

	STAGE 1	STAGE 2
C=	42.5 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	540.8 CY	0.0 CY
SURCHARGE=	324.5 CY	0.0 CY

	STAGE 1	STAGE 2
C=	32.6 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	563.3 CY	0.0 CY
SURCHARGE=	339.2 CY	0.0 CY

	STAGE 1	STAGE 2
C=	21.9 CY	0.0 CY
F=	0.5 CY	0.0 CY
A.S.C.G=	596.6 CY	0.0 CY
SURCHARGE=	356.3 CY	0.0 CY



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 313+50 TO STA. 314+50

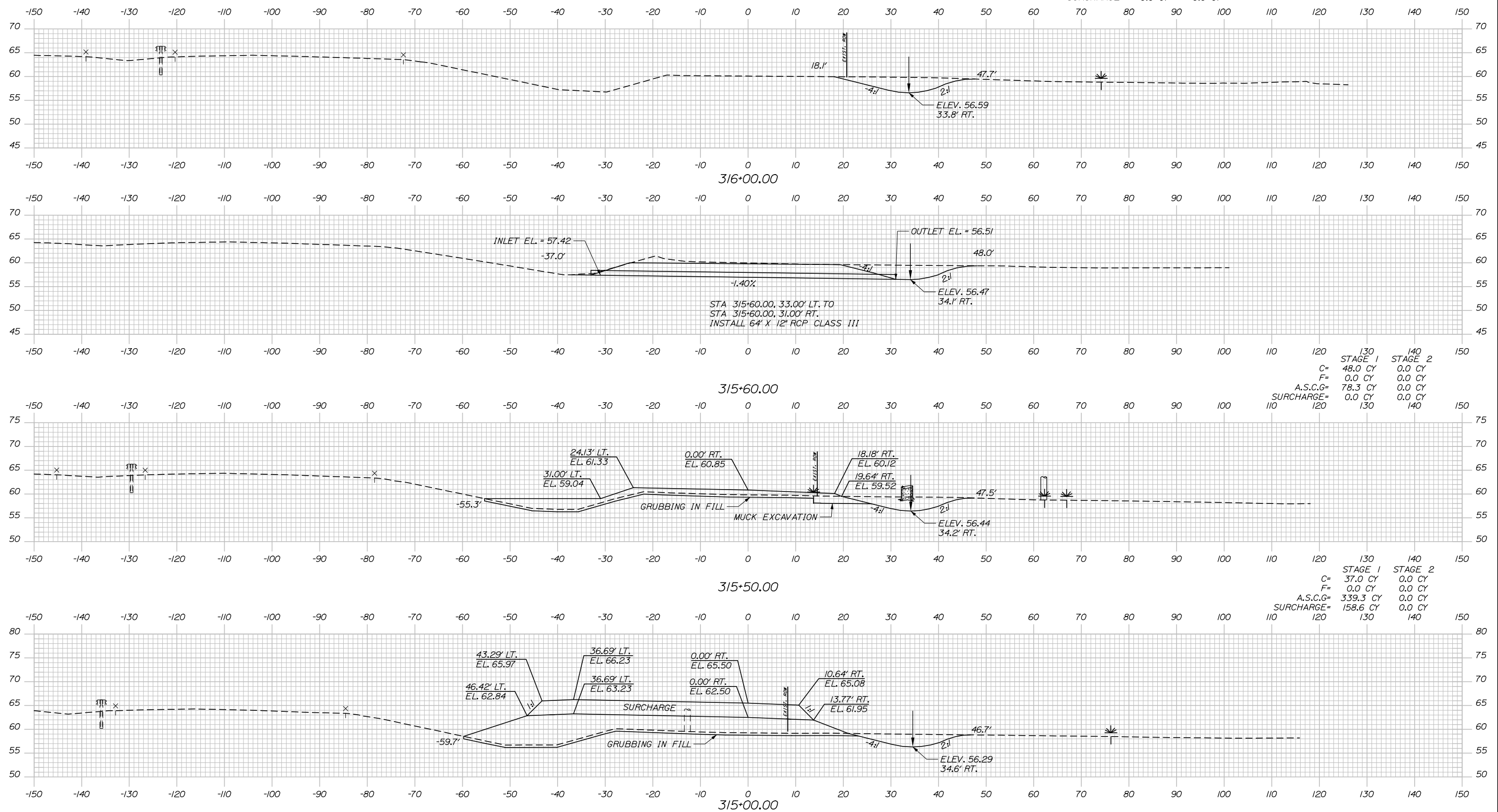
SHEET NUMBER: XS-66  
 142 OF 173

CONTRACT: 2019.13

STAGE 1 STAGE 2  
 C= 58.0 CY 0.0 CY  
 F= 0.0 CY 0.0 CY  
 A.S.C.G= 0.0 CY 0.0 CY  
 SURCHARGE= 0.0 CY 0.0 CY

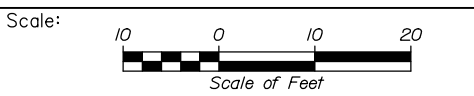
Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



130 STAGE 1 STAGE 2  
 C= 48.0 CY 0.0 CY  
 F= 0.0 CY 0.0 CY  
 A.S.C.G= 78.3 CY 0.0 CY  
 SURCHARGE= 0.0 CY 0.0 CY

130 STAGE 1 STAGE 2  
 C= 37.0 CY 0.0 CY  
 F= 0.0 CY 0.0 CY  
 A.S.C.G= 339.3 CY 0.0 CY  
 SURCHARGE= 158.6 CY 0.0 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

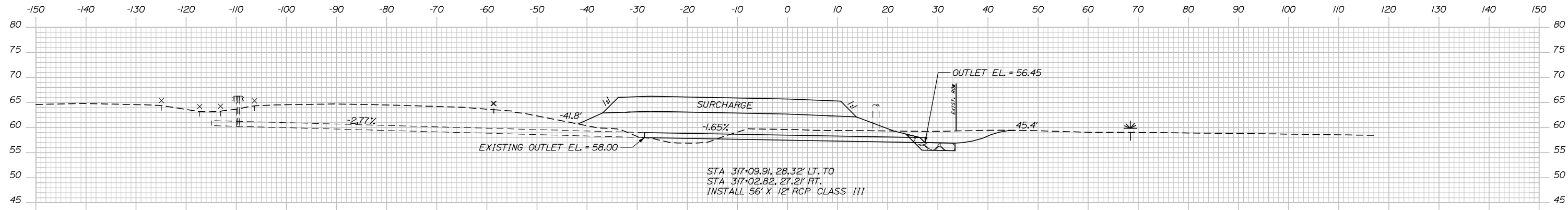
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 315+00 TO STA. 316+00**

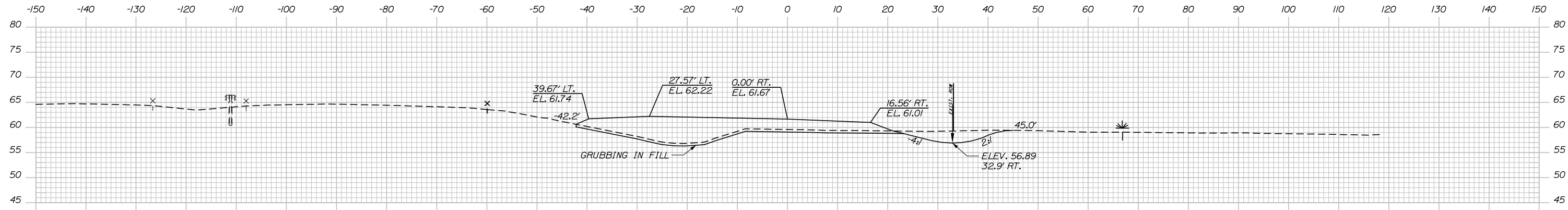
SHEET NUMBER: XS-67  
 CONTRACT: 2019.13  
 143 OF 173

Date: 7/26/2019

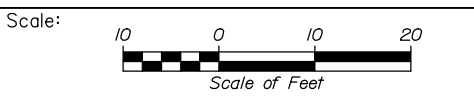
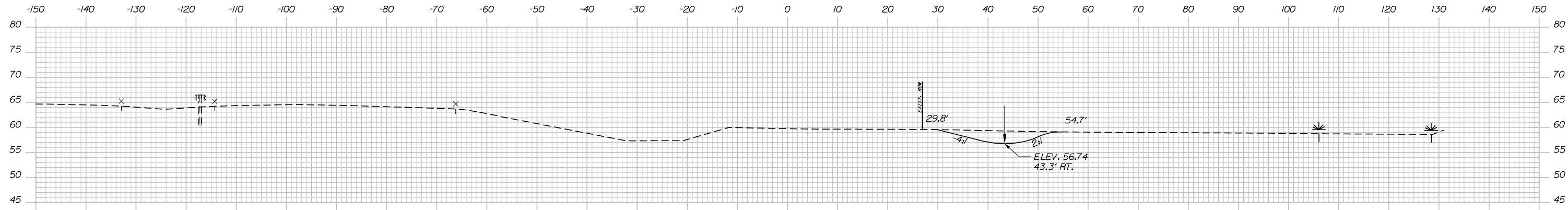
Filename: Xsect - Ramp C and C-1.dgn



	STAGE 1	STAGE 2
C=	35.5 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	363.0 CY	0.0 CY
SURCHARGE=	125.8 CY	0.0 CY



	STAGE 1	STAGE 2
C=	42.4 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	162.8 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

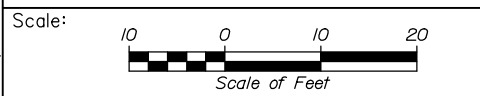
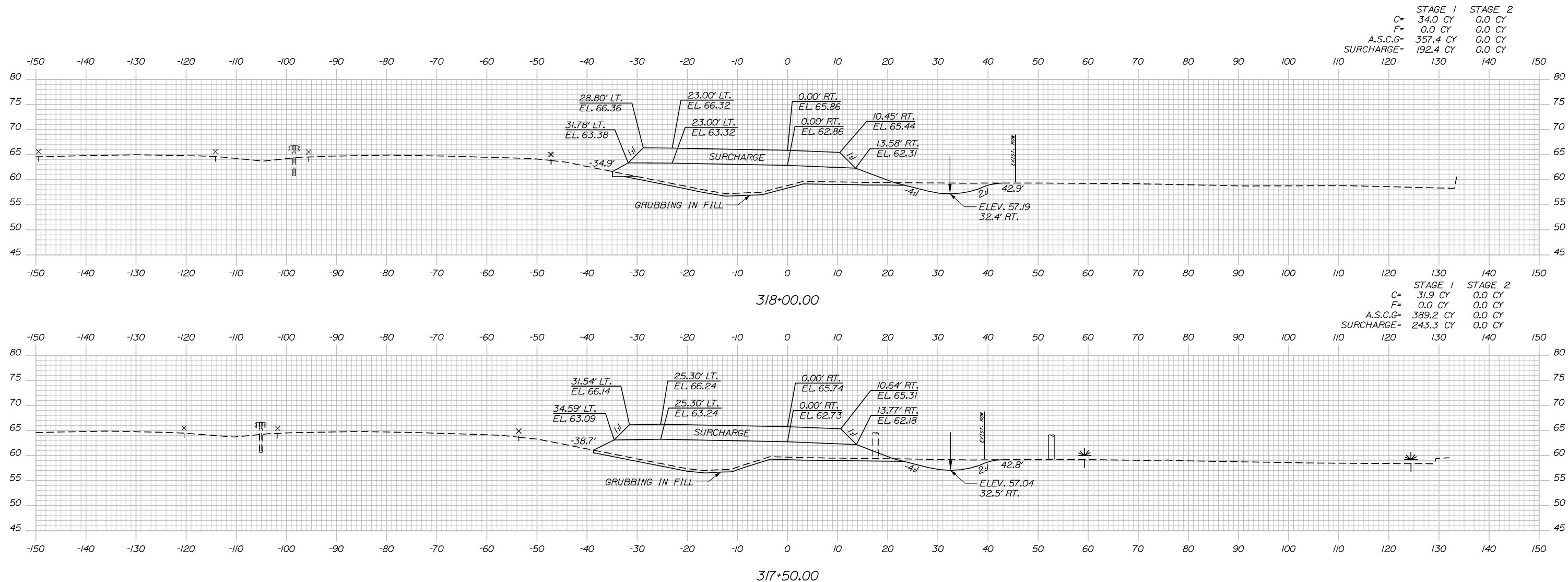
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 316+50 TO STA 317+06**

SHEET NUMBER: XS-68  
CONTRACT: 2019.13  
144 OF 173



Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

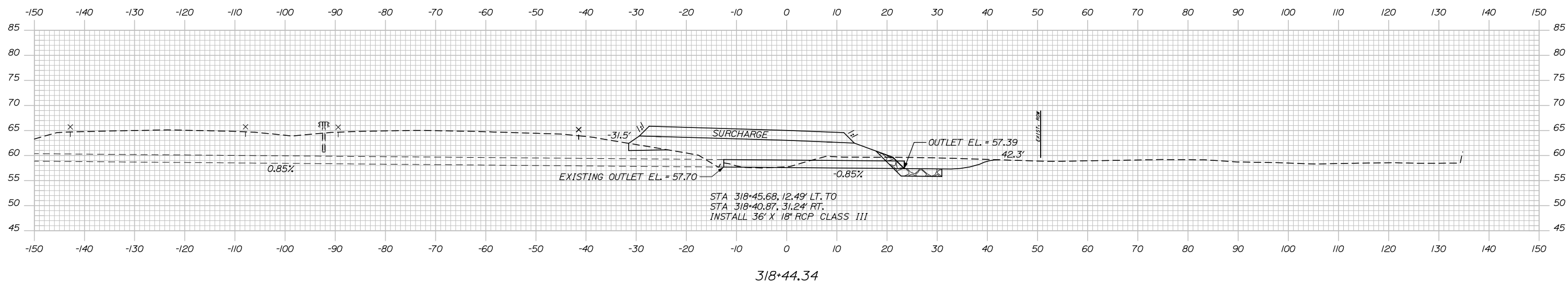
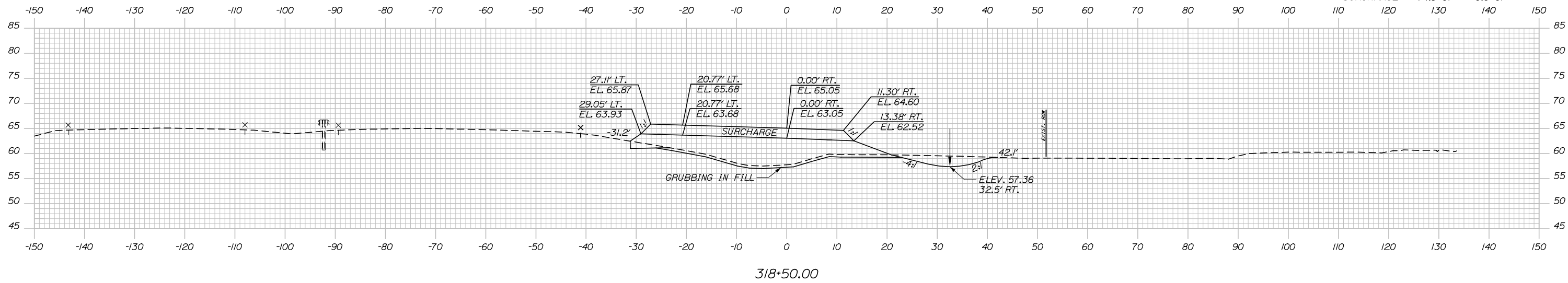
**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 317+50 TO STA. 318+00**

SHEET NUMBER: XS-69  
 145 OF 173

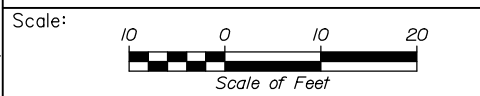
CONTRACT: 2019.13

Date: 7/26/2019

	STAGE 1	STAGE 2
C=	54.6 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	257.8 CY	0.0 CY
SURCHARGE=	74.9 CY	0.0 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

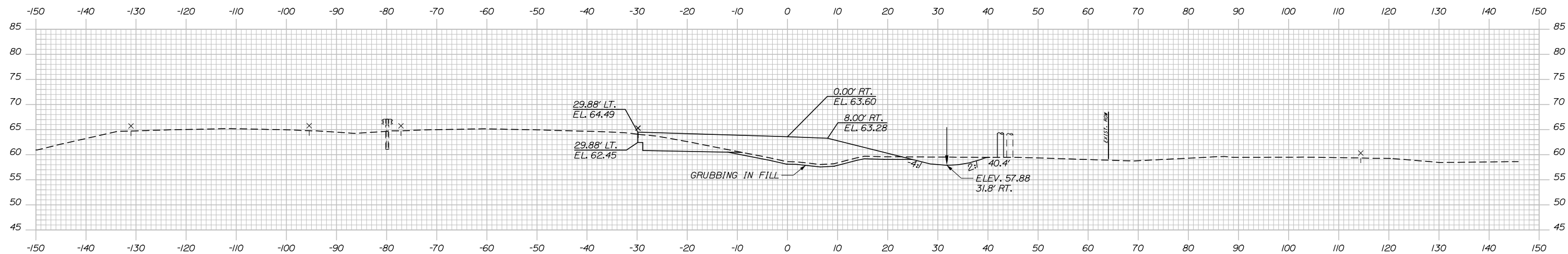
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 318+44 TO STA. 318+50**

SHEET NUMBER: XS-70  
 146 OF 173

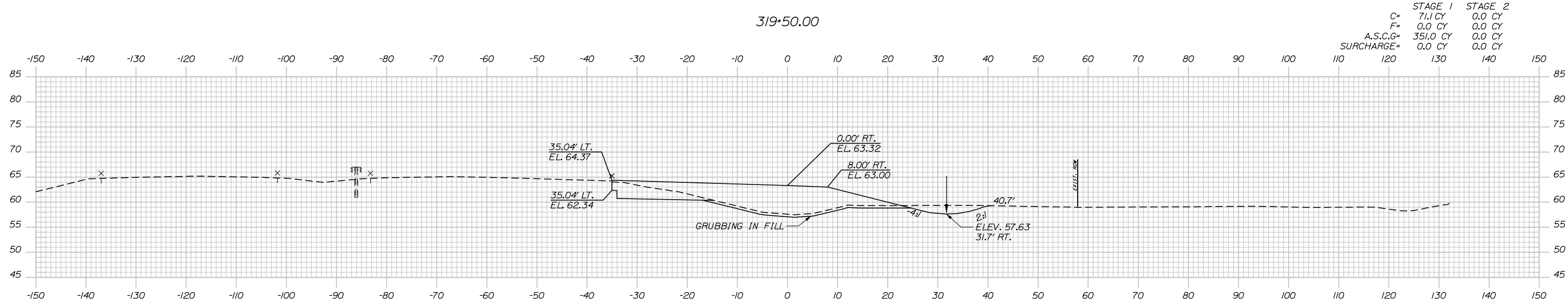
CONTRACT: 2019.13

Date: 7/26/2019

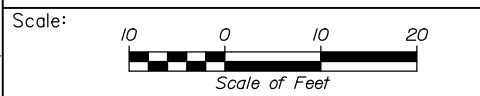
	STAGE 1	STAGE 2
C=	62.5 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	308.9 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	71.1 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	351.0 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

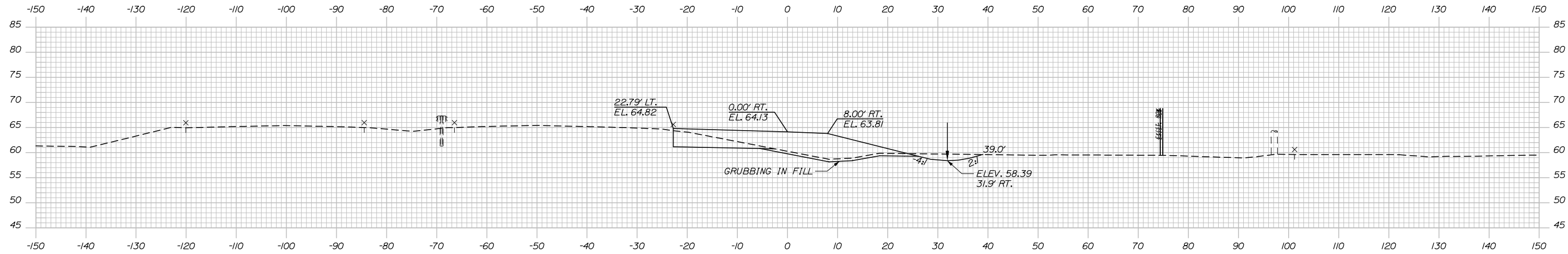
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP C**  
**STA. 319+00 TO STA. 319+50**

SHEET NUMBER: XS-71  
 CONTRACT: 2019.13  
 147 OF 173

Date: 7/26/2019

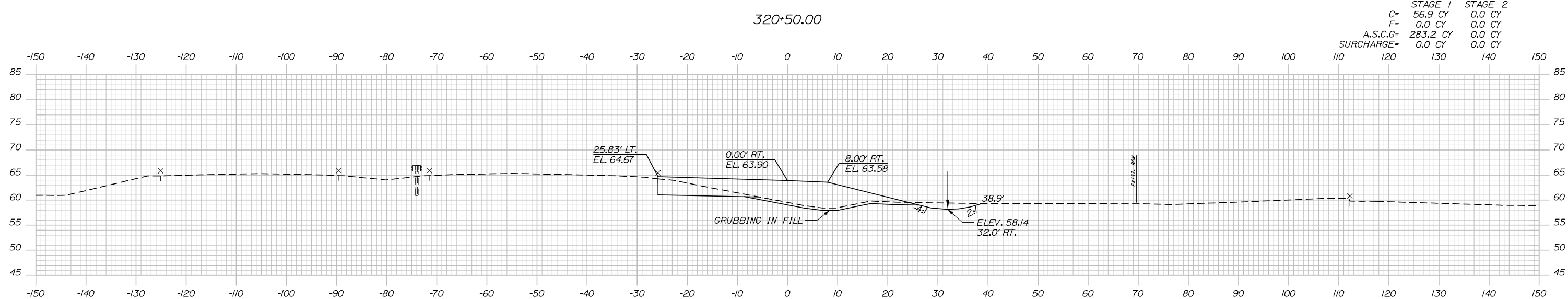
Filename: Xsect - Ramp C and C-1.dgn

	STAGE 1	STAGE 2
C=	56.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	264.4 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY

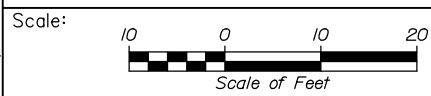


320+50.00

	STAGE 1	STAGE 2
C=	56.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	283.2 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



320+00.00



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 320+00 TO STA. 320+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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

CONTRACT: 2019.13

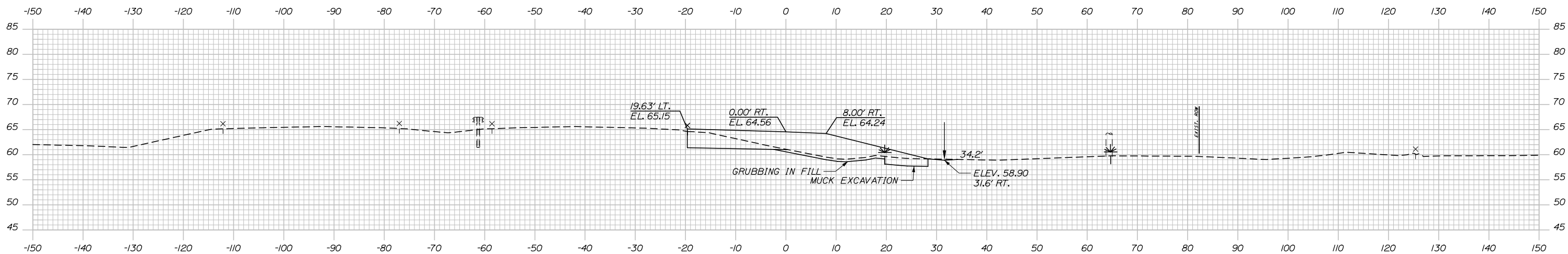
SHEET NUMBER: XS-72

148 OF 173

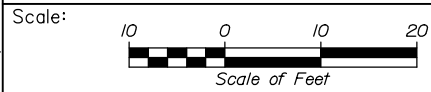
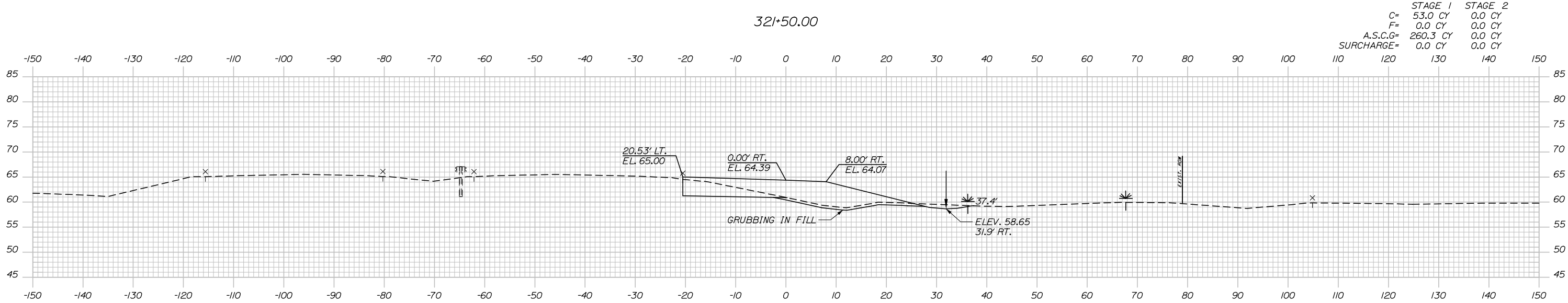
Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn

	STAGE 1	STAGE 2
C=	8.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	45.7 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	53.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G=	260.3 CY	0.0 CY
SURCHARGE=	0.0 CY	0.0 CY



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THE GOLD STAR  
 MEMORIAL HIGHWAY

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP C  
 STA. 321+00 TO STA. 321+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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

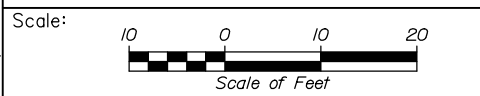
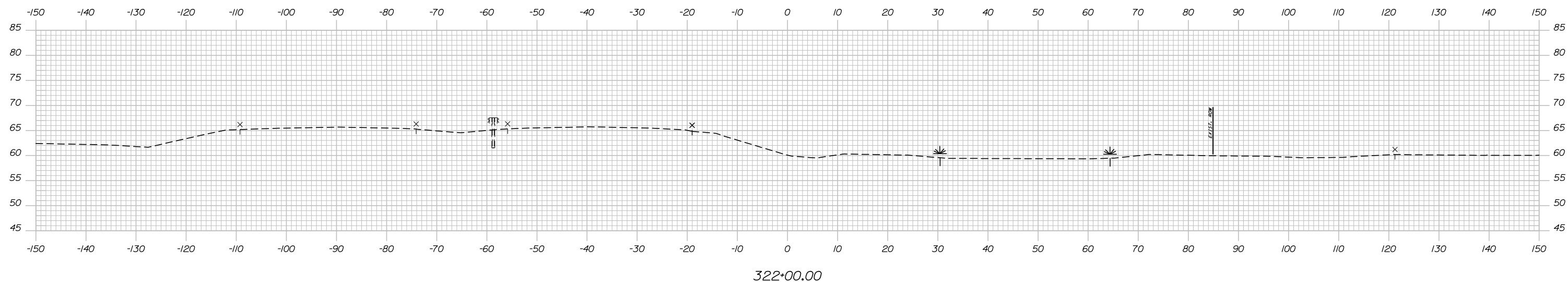
CONTRACT: 2019.13

SHEET NUMBER: XS-73

149 OF 173

Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



Designed by:

**HNTB**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

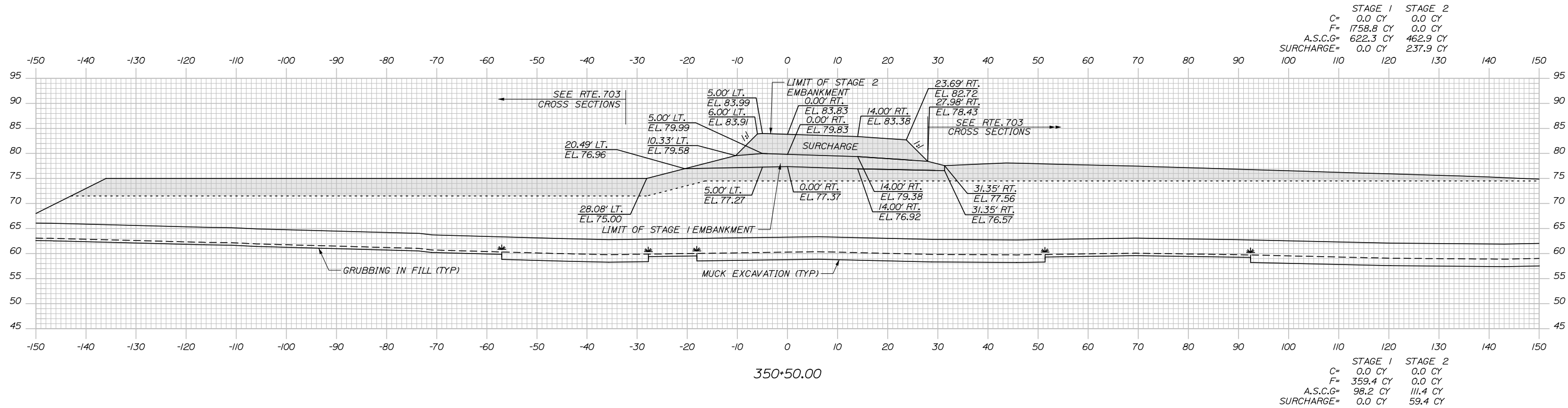
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS – RAMP C  
 STA. 322+00

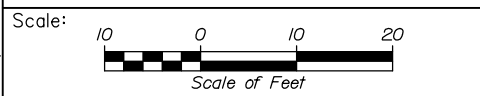
SHEET NUMBER: XS-74  
 150 OF 173

CONTRACT: 2019.13

Date: 7/26/2019



Filename: Xsect - Ramp C and C-1.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	RBP	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

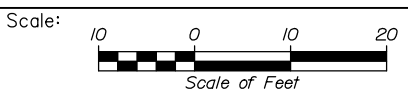
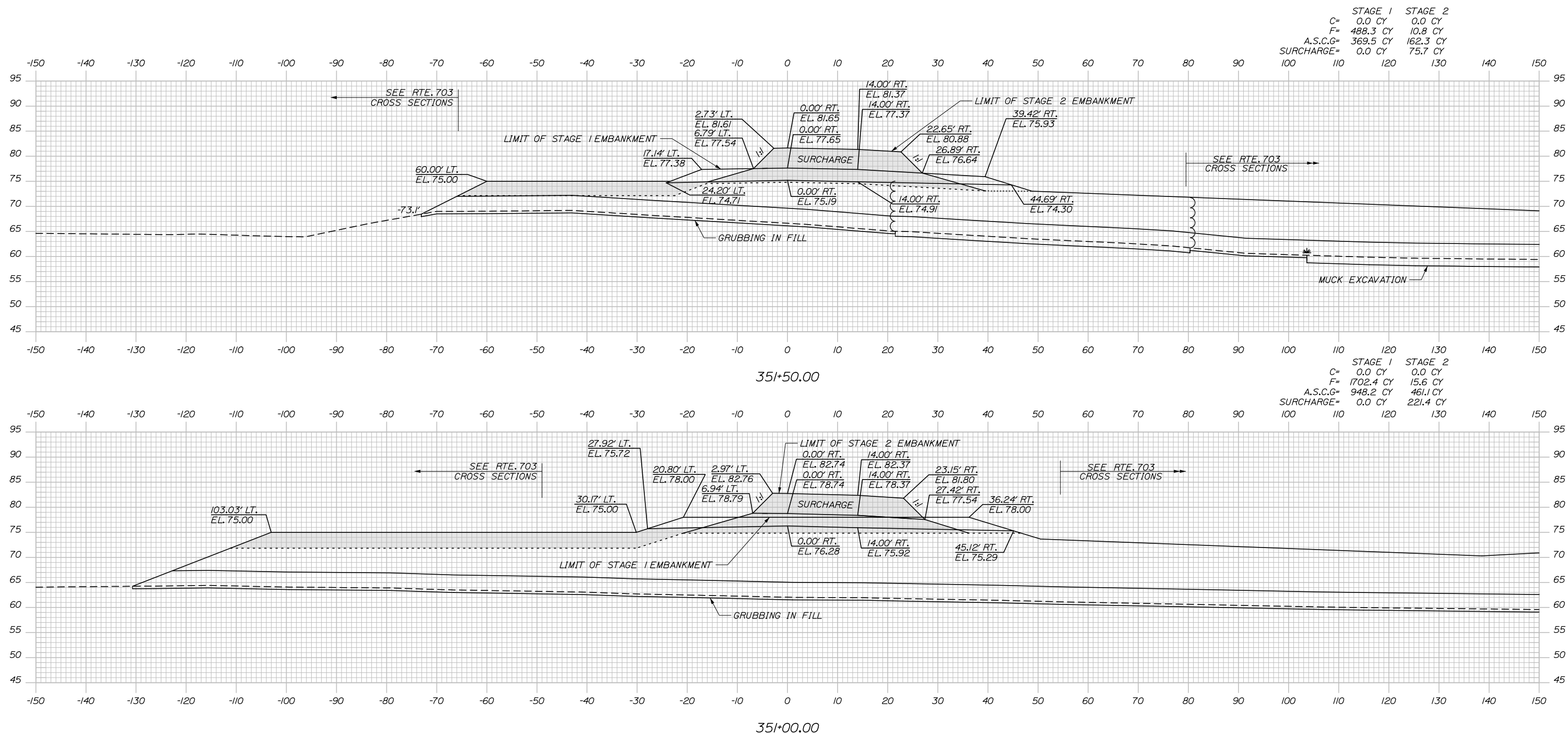
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - NB ON EVR  
 STA. 350+50**

SHEET NUMBER: XS-75  
 CONTRACT: 2019.13  
 151 OF 173

Date: 7/26/2019

Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	RBP	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

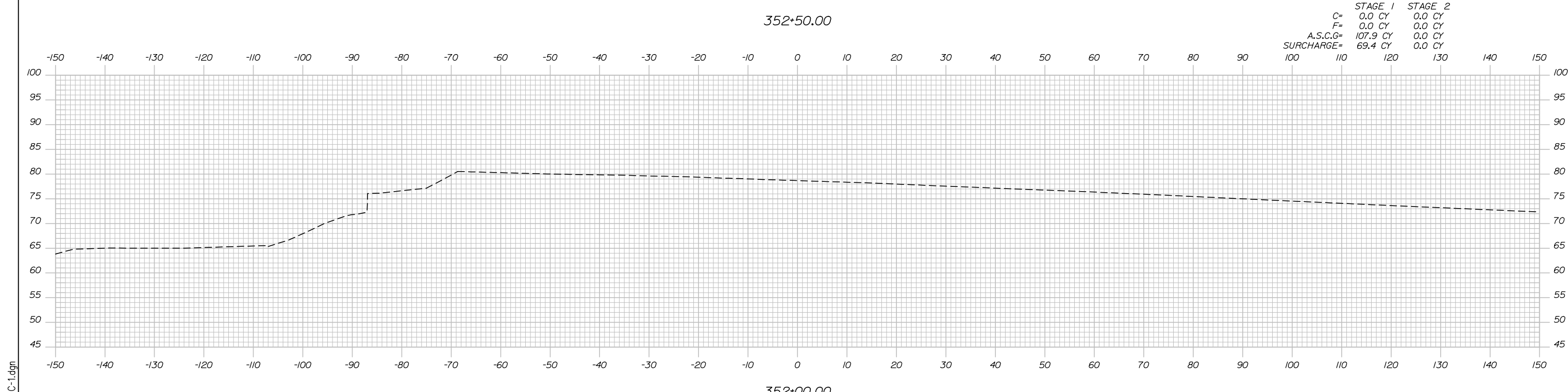
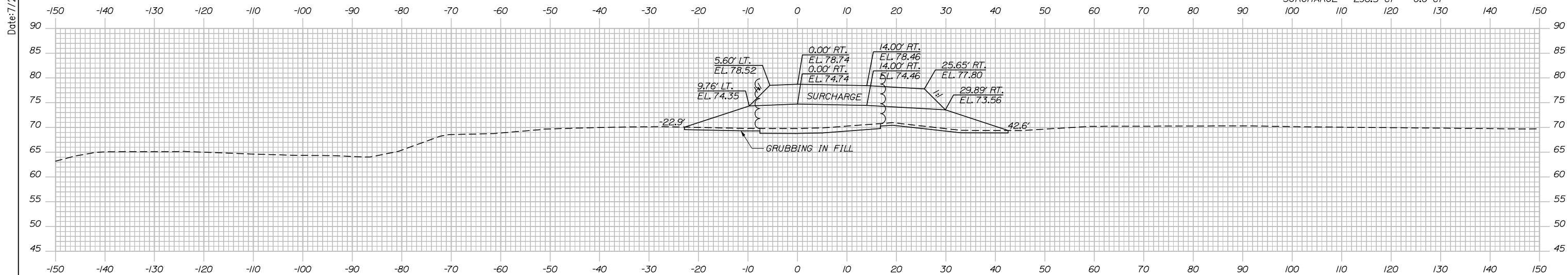
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - NB ON EVR  
 STA. 351+00 TO STA. 351+50

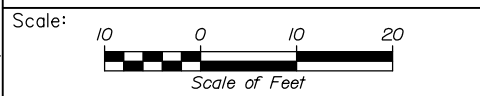
SHEET NUMBER: XS-76  
 CONTRACT: 2019.13  
 152 OF 173



Date: 7/26/2019



Filename: Xsect - Ramp C and C-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	RBP	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

**EXIT 45  
 EMBANKMENT PRELOAD**

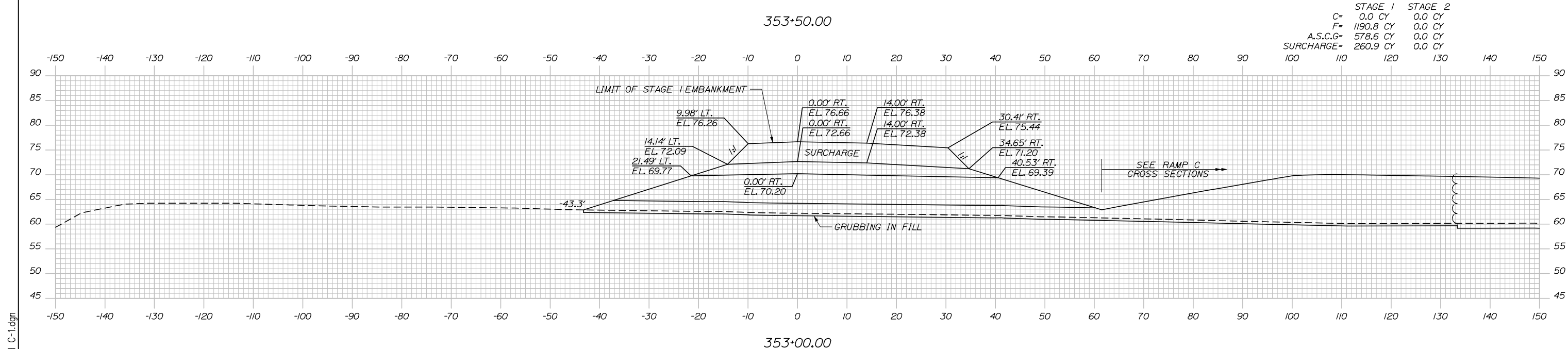
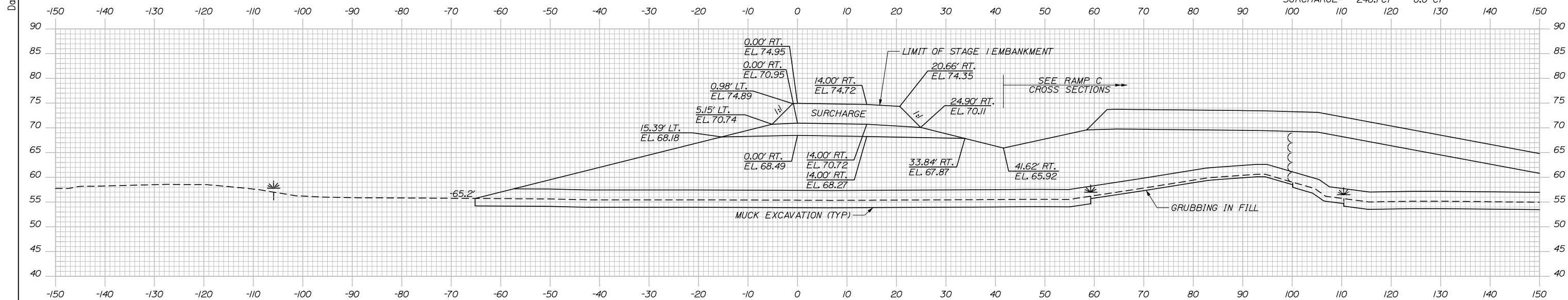
CROSS SECTIONS - NB ON EVR  
 STA. 352+00 TO STA. 352+50

SHEET NUMBER: XS-77

CONTRACT: 2019.13

153 OF 173

Date: 7/26/2019



Scale: 10 0 10 20  
 Scale of Feet

No.	Revision	By	Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	RBP	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

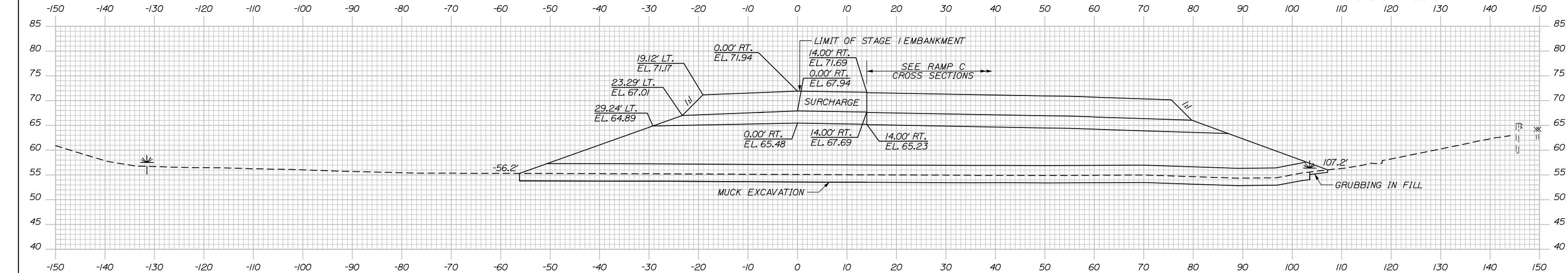
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45 EMBANKMENT PRELOAD**  
 CROSS SECTIONS - NB ON EVR  
 STA. 353+00 TO STA. 353+50

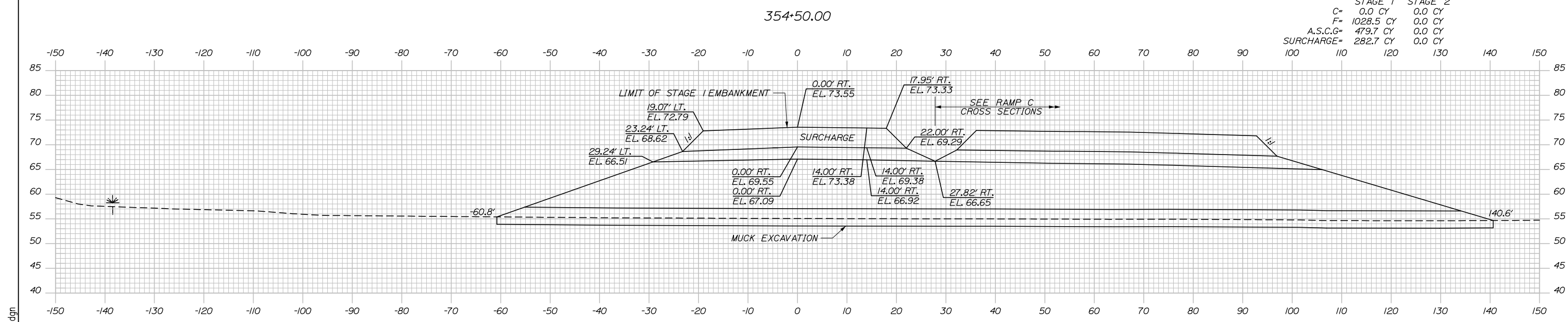
SHEET NUMBER: XS-78  
 CONTRACT: 2019.13  
 154 OF 173

Filename: Xsect - Ramp C and C-1.dgn

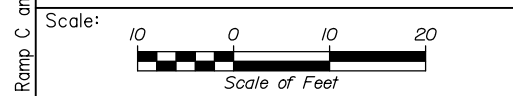
Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	167.3 CY	0.0 CY
A.S.C.G=	87.8 CY	0.0 CY
SURCHARGE=	54.5 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1028.5 CY	0.0 CY
A.S.C.G=	479.7 CY	0.0 CY
SURCHARGE=	282.7 CY	0.0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	RBP	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

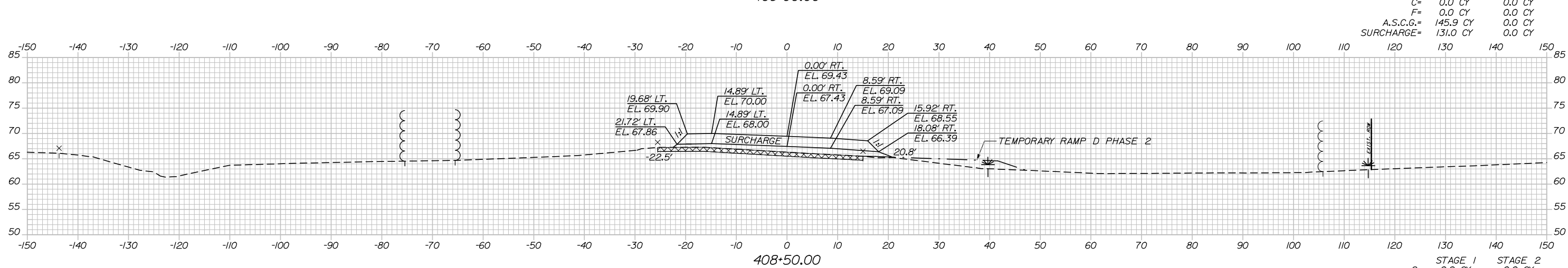
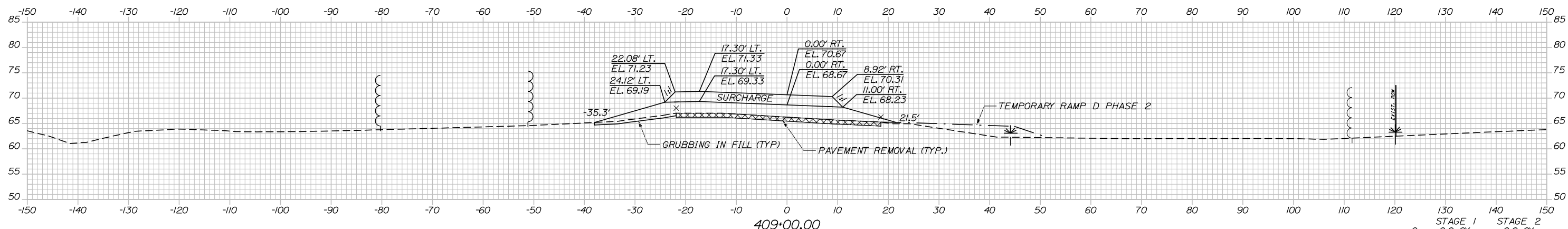
**EXIT 45  
 EMBANKMENT PRELOAD**

CROSS SECTIONS - NB ON EVR  
 STA. 354+00 TO STA. 354+50

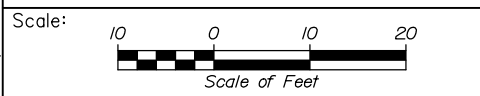
SHEET NUMBER: XS-79  
 CONTRACT: 2019.13  
 155 OF 173

Filename: Xsect - Ramp C and C-1.dgn

Date: 7/26/2019



Filename: Xsect - Ramp D and D-1.dgn



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn AJA	07\19	In Charge of RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

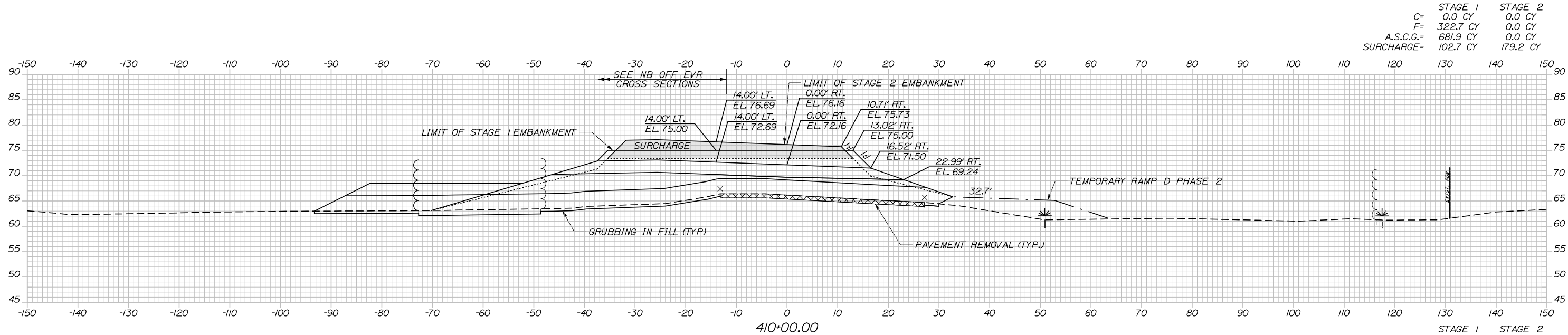
EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP D  
STA. 408+00 TO STA. 409+00

SHEET NUMBER: XS-80  
156 OF 173

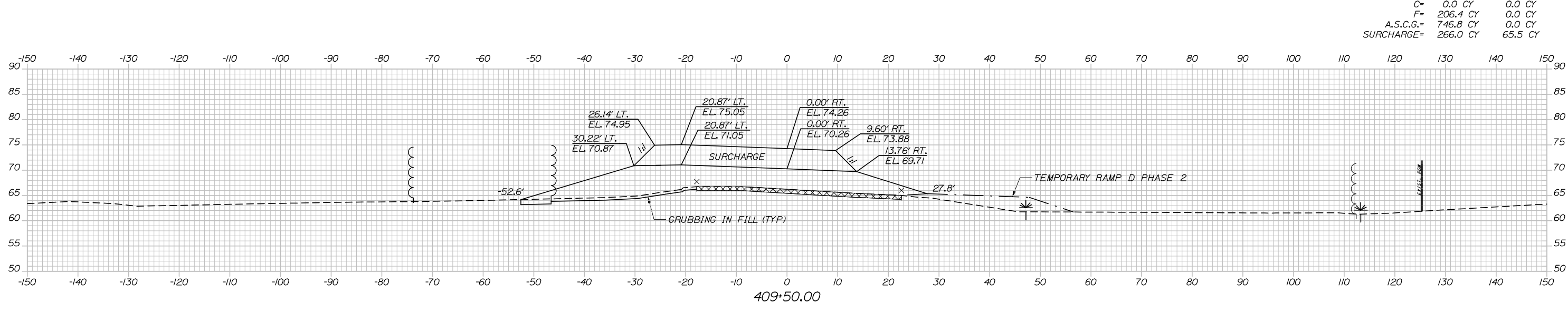
CONTRACT: 2019.13

Date: 7/26/2019

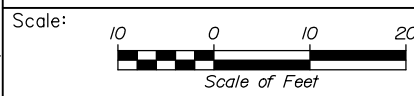
Filename: Xsect - Ramp D and D-1.dgn



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	322.7 CY	0.0 CY
A.S.C.G.=	681.9 CY	0.0 CY
SURCHARGE=	102.7 CY	179.2 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	206.4 CY	0.0 CY
A.S.C.G.=	746.8 CY	0.0 CY
SURCHARGE=	266.0 CY	65.5 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

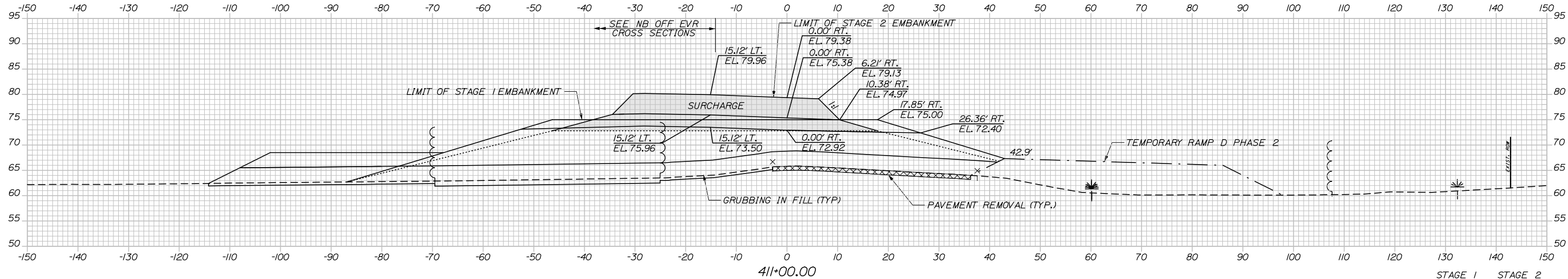
EXIT 45  
EMBANKMENT PRELOAD  
CROSS SECTIONS - RAMP D  
STA. 409+50 TO STA. 410+00

SHEET NUMBER: XS-81  
CONTRACT: 2019.13  
157 OF 173

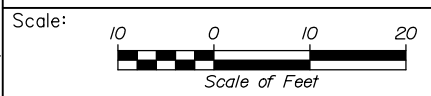
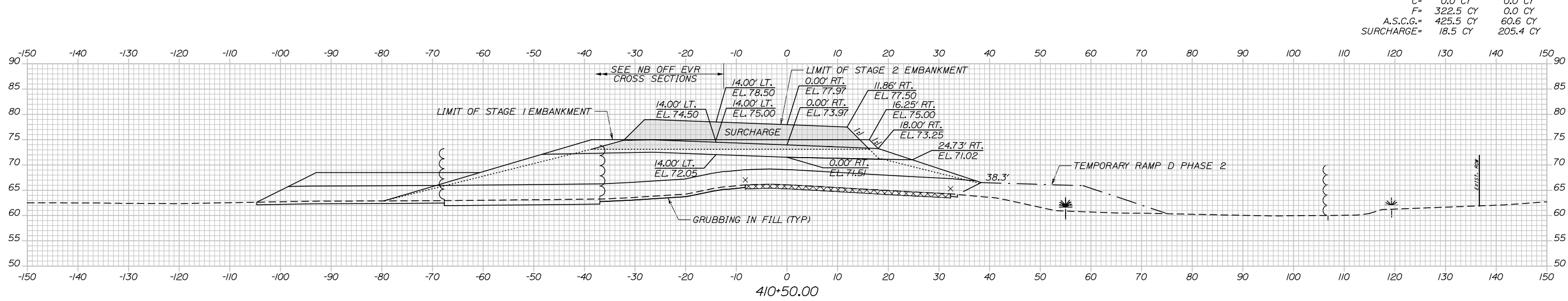
Date: 7/26/2019

Filename: Xsect - Ramp D and D-1.dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	536.9 CY	0.0 CY
A.S.C.G.=	423.1 CY	190.0 CY
SURCHARGE=	0.0 CY	179.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	322.5 CY	0.0 CY
A.S.C.G.=	425.5 CY	60.6 CY
SURCHARGE=	18.5 CY	205.4 CY



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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

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

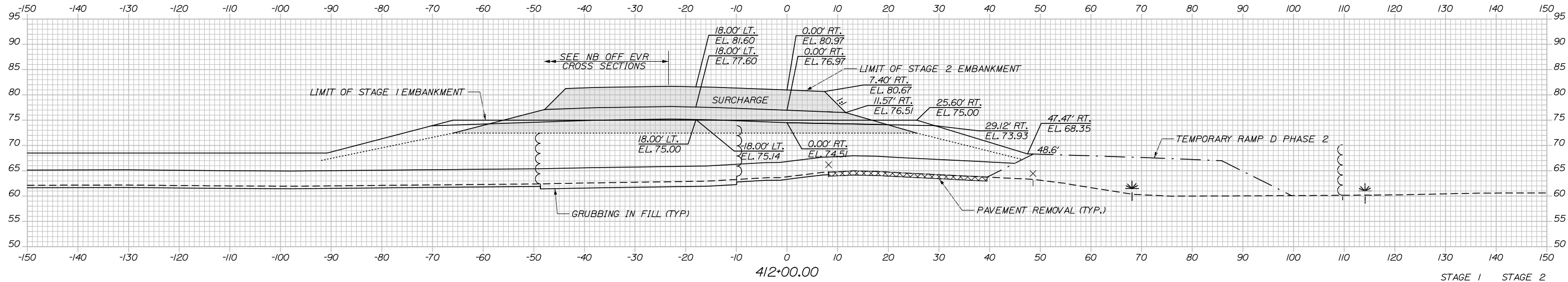
**EXIT 45  
 EMBANKMENT PRELOAD  
 CROSS SECTIONS - RAMP D  
 STA. 410+50 TO STA. 411+00**

CONTRACT: 2019.13

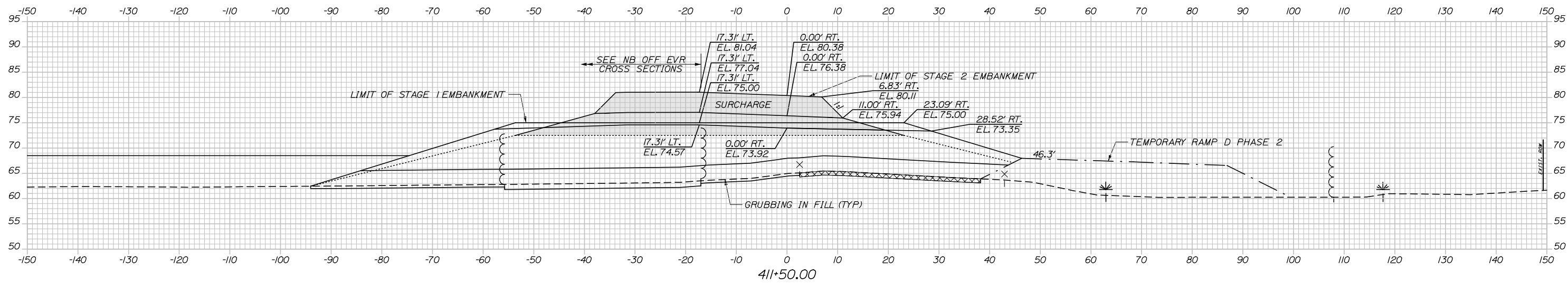
SHEET NUMBER: XS-82  
 158 OF 173

Date: 7/26/2019

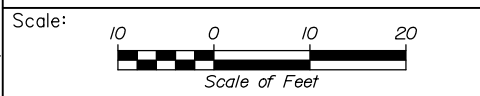
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	954.4 CY	0.0 CY
A.S.C.G.=	415.3 CY	384.3 CY
SURCHARGE=	0.0 CY	232.4 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	758.5 CY	0.0 CY
A.S.C.G.=	409.5 CY	301.7 CY
SURCHARGE=	0.0 CY	217.7 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	Checked	By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

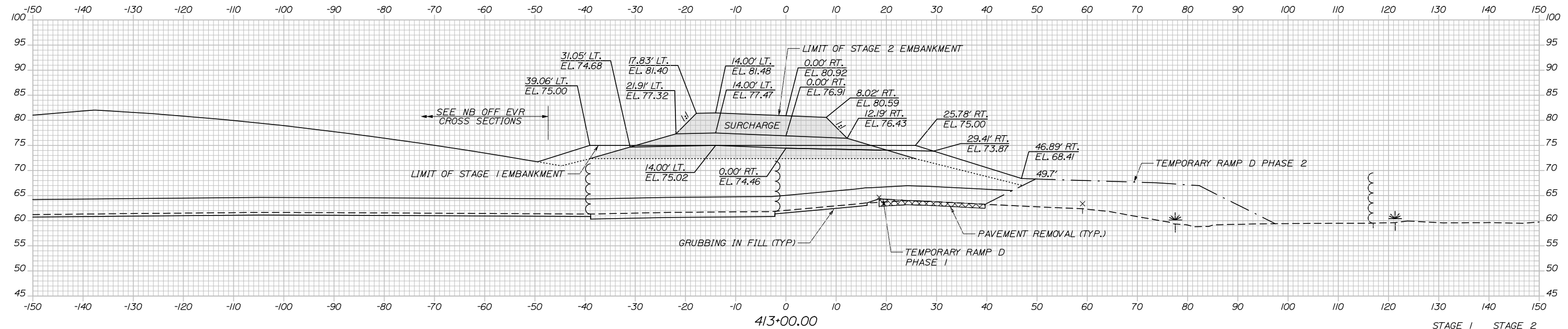
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 411+50 TO STA. 412+00**

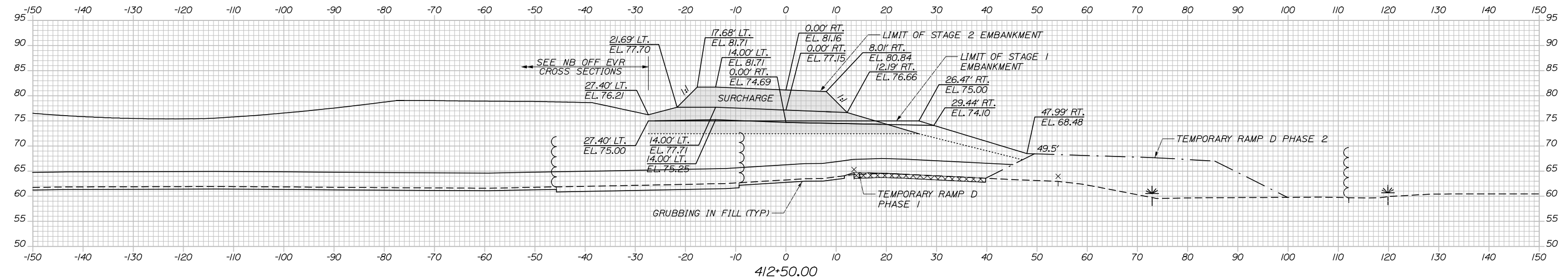
SHEET NUMBER: XS-83  
CONTRACT: 2019.13  
159 OF 173

Date: 7/26/2019

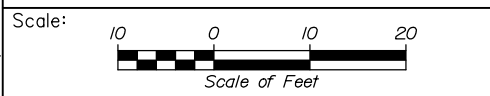
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1412.5 CY	0.0 CY
A.S.C.G.=	764.1 CY	321.2 CY
SURCHARGE=	0.0 CY	222.2 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1061.4 CY	0.0 CY
A.S.C.G.=	484.8 CY	418.3 CY
SURCHARGE=	0.0 CY	221.6 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

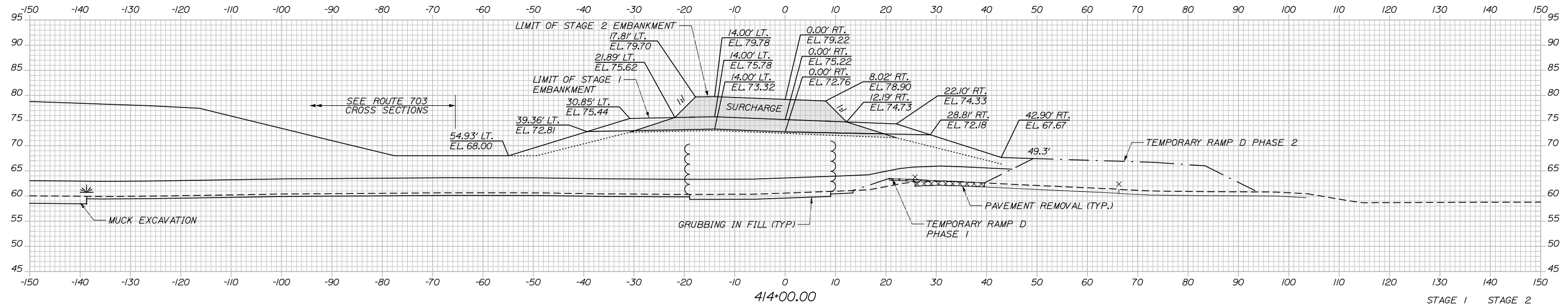
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 412+50 TO STA. 413+00**

SHEET NUMBER: XS-84  
 CONTRACT: 2019.13  
 160 OF 173

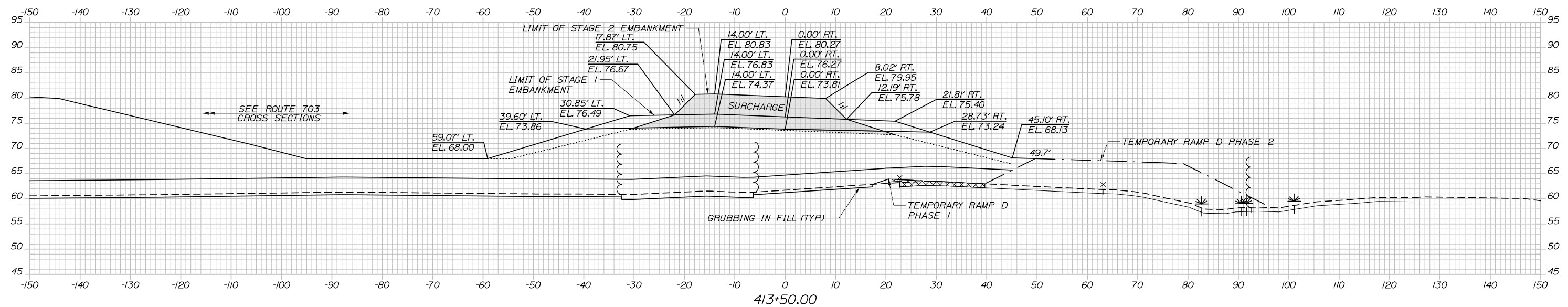


Date: 7/26/2019

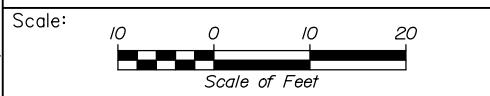
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1390.1 CY	0.0 CY
A.S.C.G.=	815.2 CY	214.0 CY
SURCHARGE=	0.0 CY	220.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1636.8 CY	0.0 CY
A.S.C.G.=	922.0 CY	218.9 CY
SURCHARGE=	0.0 CY	222.1 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

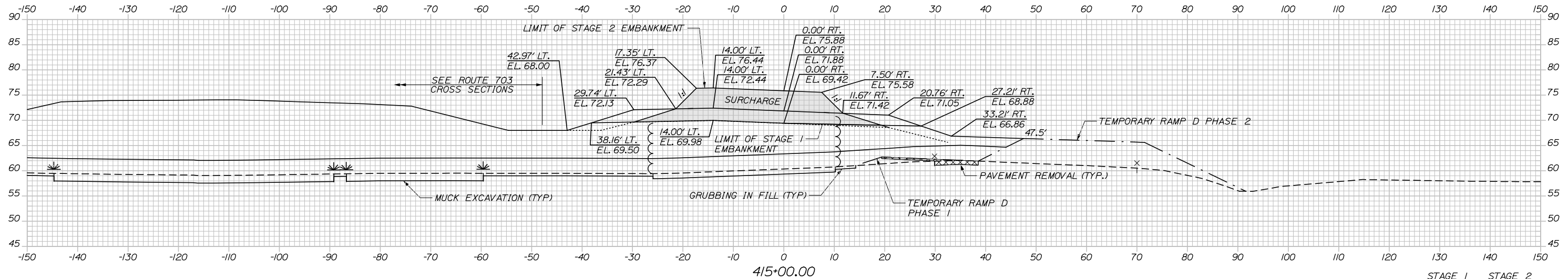
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 413+50 TO STA. 414+00**

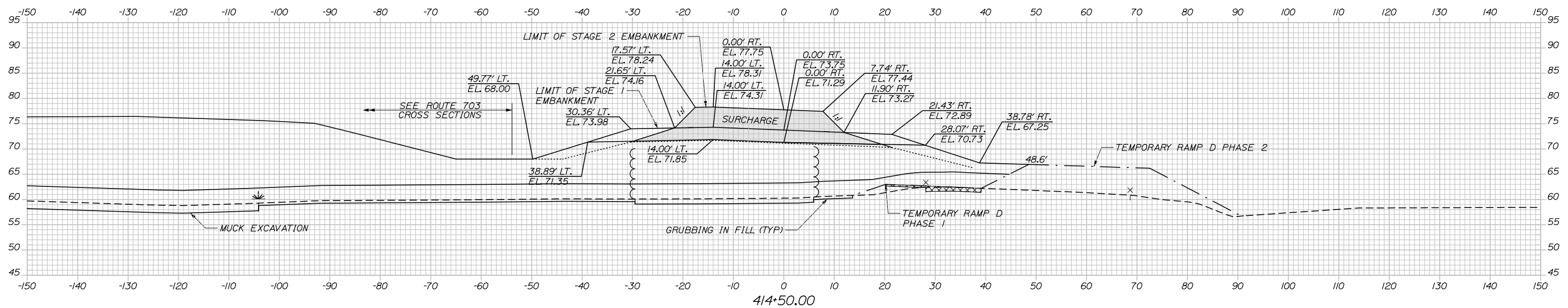
SHEET NUMBER: XS-85  
CONTRACT: 2019.13  
161 OF 173

Date: 7/26/2019

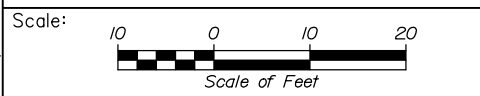
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	742.4 CY	0.0 CY
A.S.C.G.=	681.9 CY	183.8 CY
SURCHARGE=	0.0 CY	212.6 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1087.1 CY	0.0 CY
A.S.C.G.=	745.6 CY	198.7 CY
SURCHARGE=	0.0 CY	216.3 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

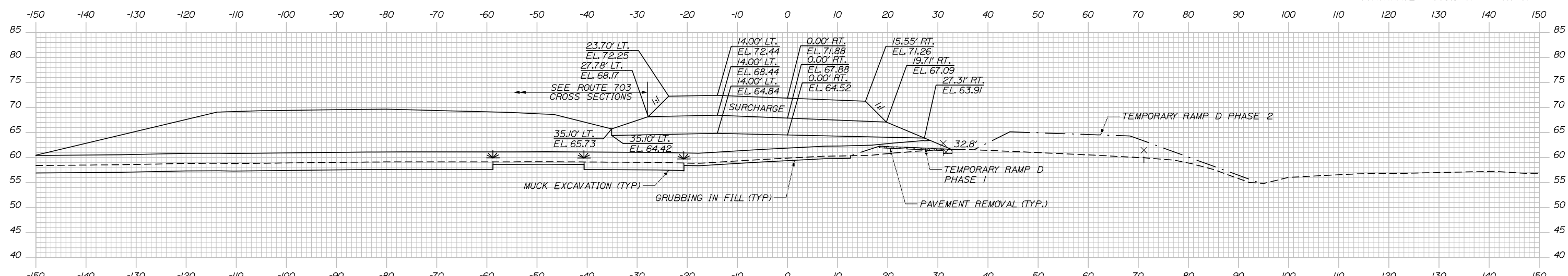
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 414+50 TO STA. 415+00**

SHEET NUMBER: XS-86  
 162 OF 173

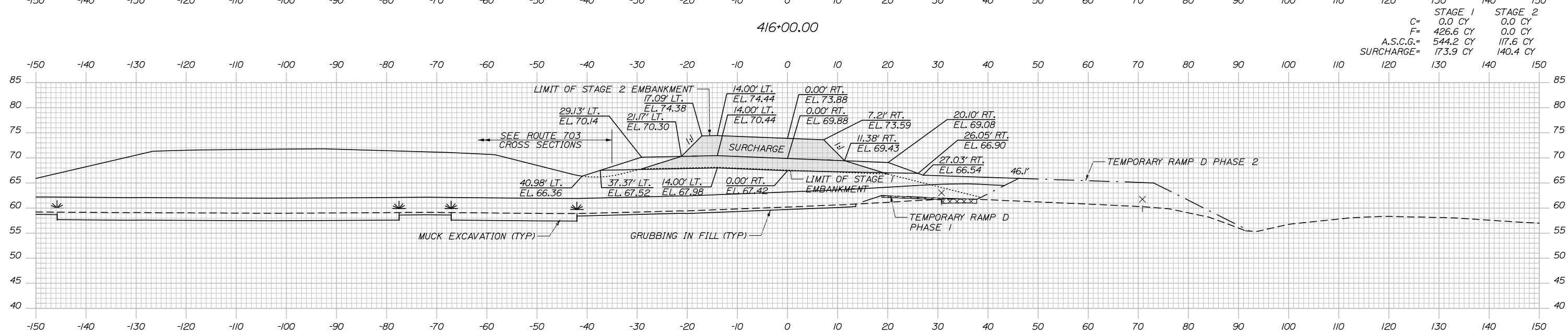
CONTRACT: 2019.13

Date: 7/26/2019

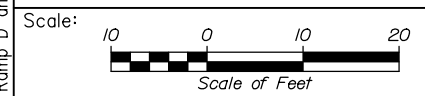
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	132.2 CY	0.0 CY
A.S.C.G.=	526.1 CY	0.0 CY
SURCHARGE=	305.5 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	426.6 CY	0.0 CY
A.S.C.G.=	544.2 CY	117.6 CY
SURCHARGE=	173.9 CY	140.4 CY



Filename: Xsect - Ramp D and D-1.dgn



Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

HNTB CORPORATION  
340 County Road, Suite 6-C  
Westbrook, ME 04092  
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FAX (207) 228-0909

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

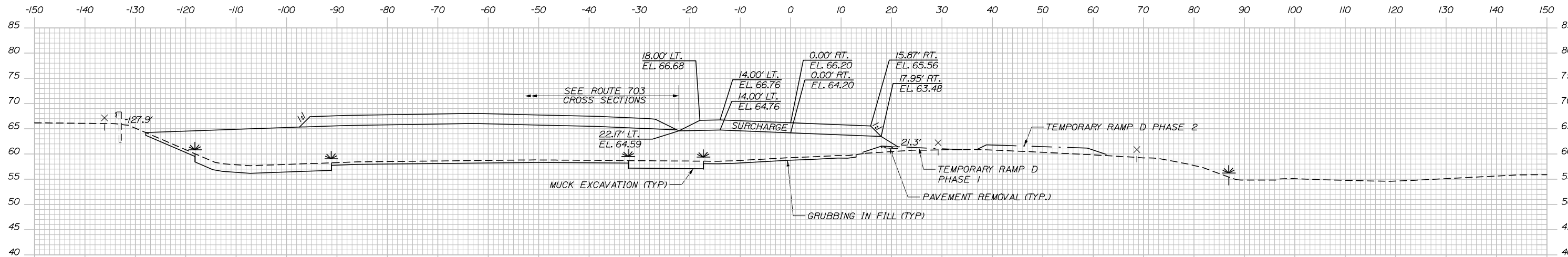
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 415+50 TO STA. 416+00**

SHEET NUMBER: XS-87  
CONTRACT: 2019.13  
163 OF 173

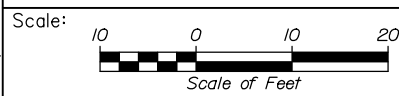
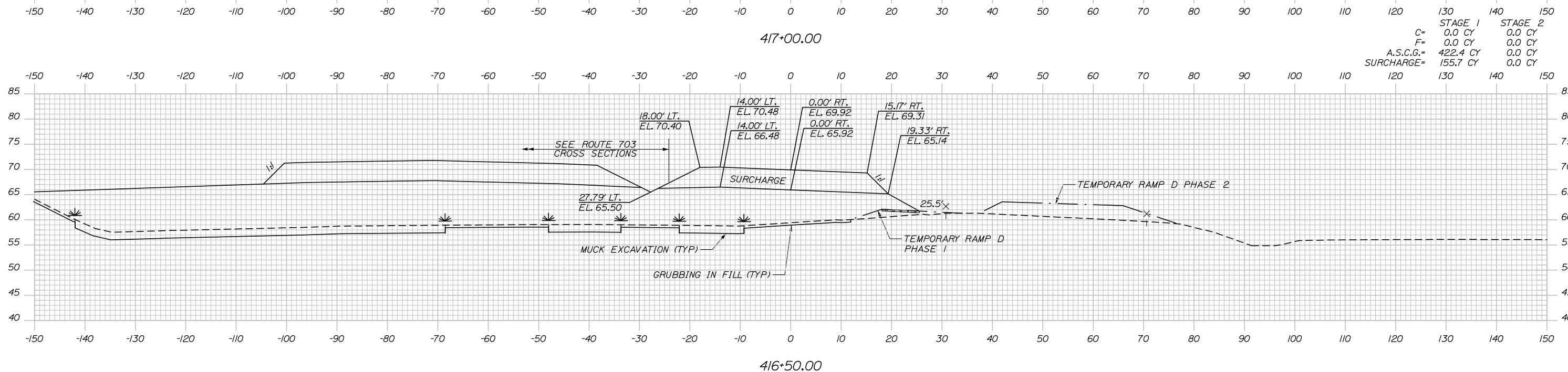
Date: 7/26/2019

Filename: Xsect - Ramp D and D-1.dgn

	STAGE 1	STAGE 2
C=	2.3 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	330.1 CY	0.0 CY
SURCHARGE=	134.4 CY	0.0 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	422.4 CY	0.0 CY
SURCHARGE=	155.7 CY	0.0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

By	Date	By	Date
EDD	07\19	JRH	07\19
AJS	07\19	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

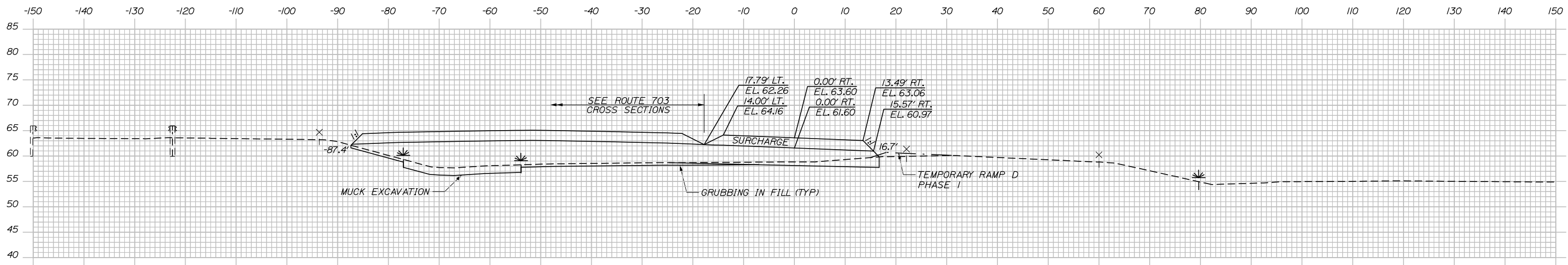
**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 416+50 TO STA. 417+00**

SHEET NUMBER: XS-88  
 164 OF 173

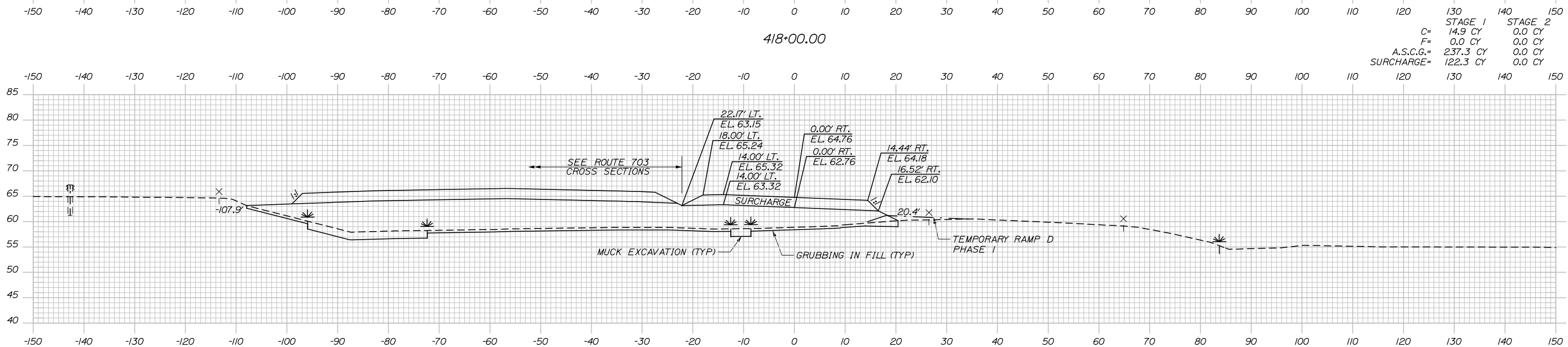
CONTRACT: 2019.13

Date: 7/26/2019

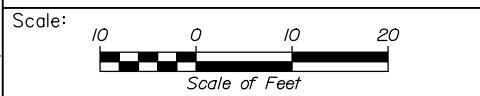
	STAGE 1	STAGE 2
C=	30.8 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	180.5 CY	0.0 CY
SURCHARGE=	109.0 CY	0.0 CY



	STAGE 1	STAGE 2
C=	14.9 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	237.3 CY	0.0 CY
SURCHARGE=	122.3 CY	0.0 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

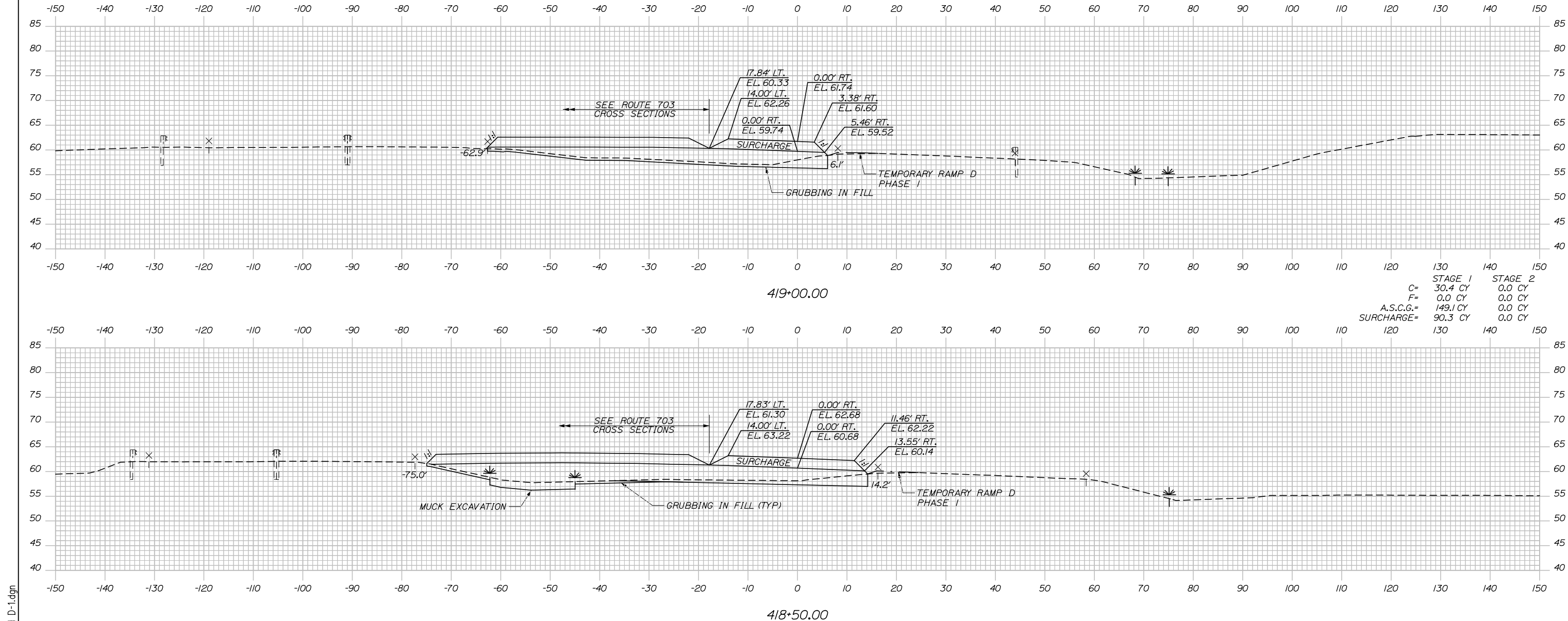
**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 417+50 TO STA. 418+00**

SHEET NUMBER: XS-89  
 CONTRACT: 2019.13  
 165 OF 173

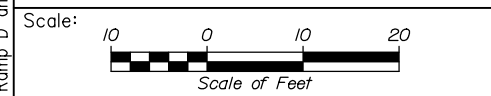
Date: 7/26/2019



	STAGE 1	STAGE 2
C=	4.2 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	22.0 CY	0.0 CY
SURCHARGE=	13.0 CY	0.0 CY

	STAGE 1	STAGE 2
C=	30.4 CY	0.0 CY
F=	0.0 CY	0.0 CY
A.S.C.G.=	149.1 CY	0.0 CY
SURCHARGE=	90.3 CY	0.0 CY

Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn AJA	07\19	In Charge of RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

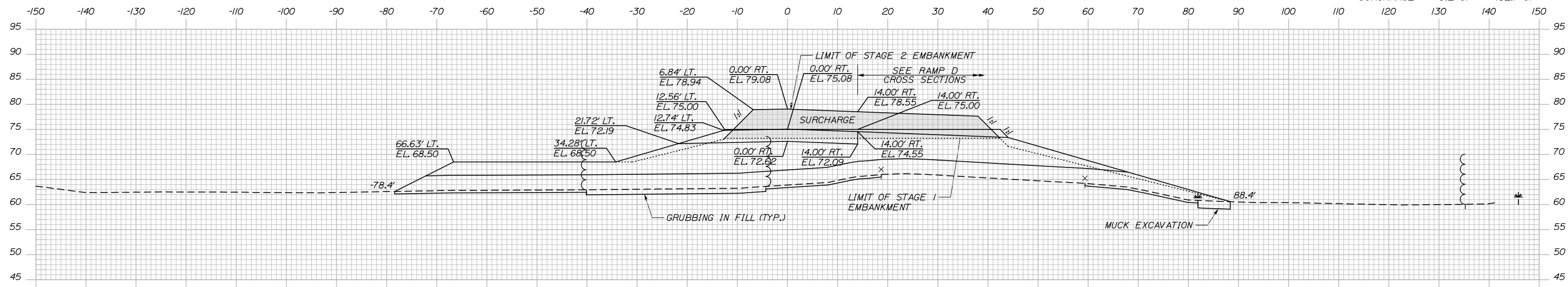
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

**EXIT 45**  
**EMBANKMENT PRELOAD**  
**CROSS SECTIONS - RAMP D**  
**STA. 418+50 TO STA. 419+00**

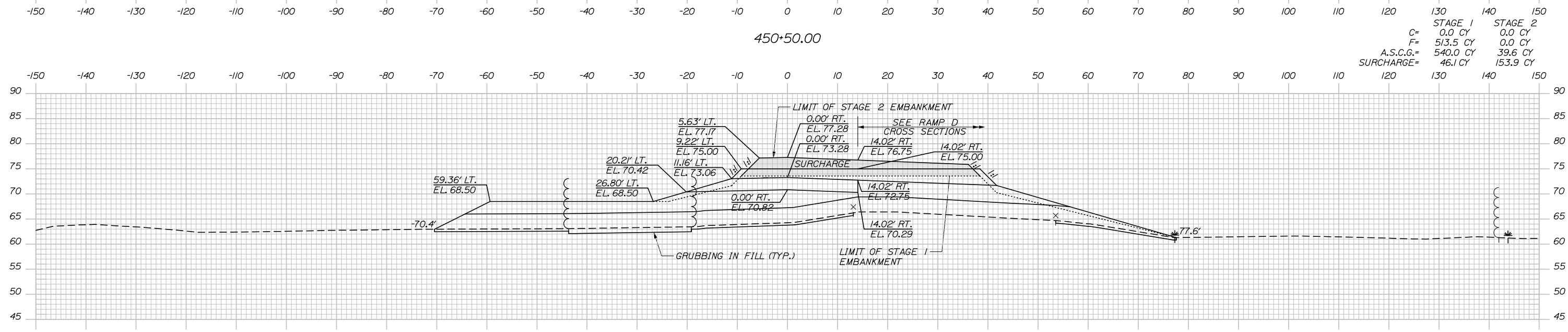
SHEET NUMBER: XS-90  
 CONTRACT: 2019.13  
 166 OF 173

Date: 7/26/2019

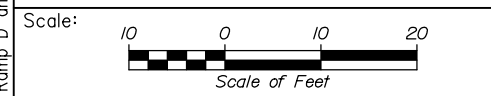
	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	729.9 CY	0.0 CY
A.S.C.G.=	626.2 CY	119.6 CY
SURCHARGE=	3.2 CY	152.7 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	513.5 CY	0.0 CY
A.S.C.G.=	540.0 CY	39.6 CY
SURCHARGE=	46.1 CY	153.9 CY



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

By	Date	By	Date
Designed	EDD 07\19	Checked	JRH 07\19
Drawn	AJS 07\19	In Charge of	RAL 07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD**

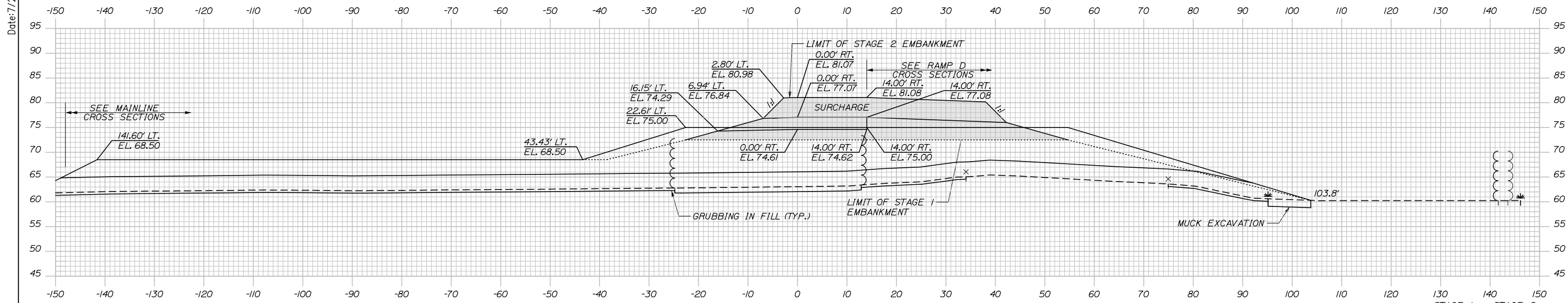
CROSS SECTIONS - NB OFF EVR  
STA. 450+00 TO STA. 450+50

SHEET NUMBER: XS-91

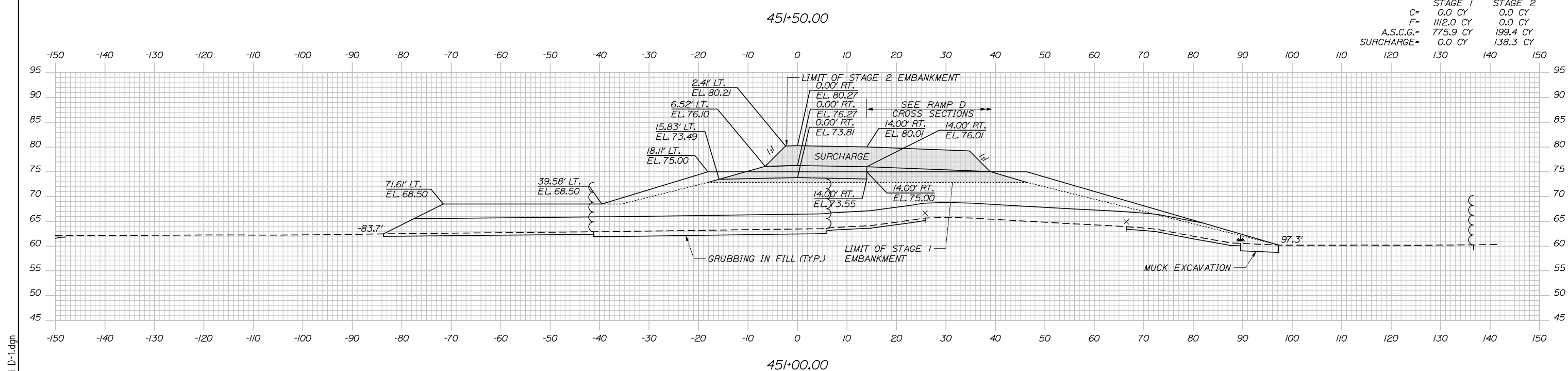
CONTRACT: 2019.13

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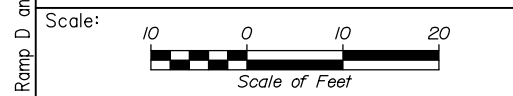
Date: 7/26/2019



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1483.9 CY	0.0 CY
A.S.C.G.=	930.6 CY	274.3 CY
SURCHARGE=	0.0 CY	147.3 CY



	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	1112.0 CY	0.0 CY
A.S.C.G.=	775.9 CY	199.4 CY
SURCHARGE=	0.0 CY	138.3 CY



Designed by:

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CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

No.	Revision	By	Date

By	Date	By	Date
Designed EDD	07\19	Checked JRH	07\19
Drawn AJA	07\19	In Charge of RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

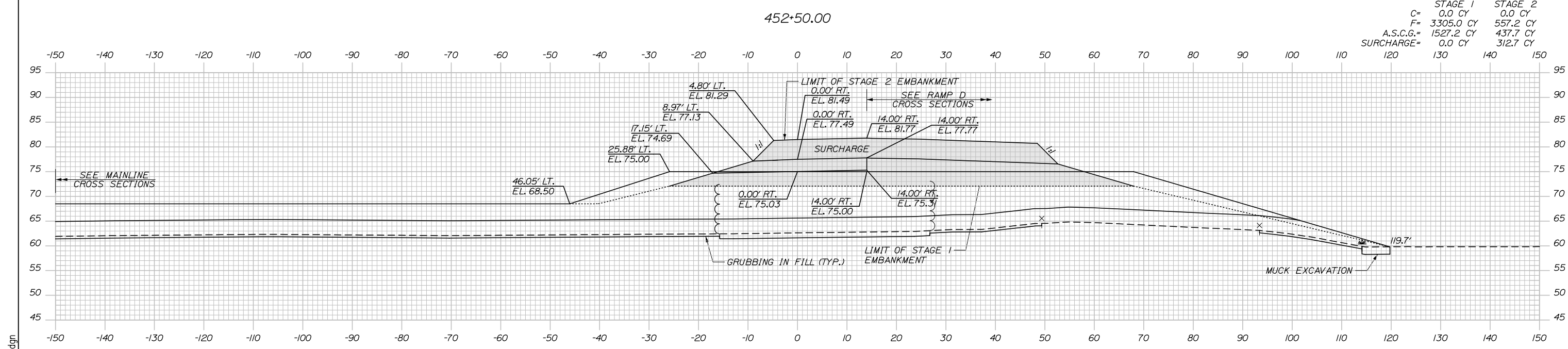
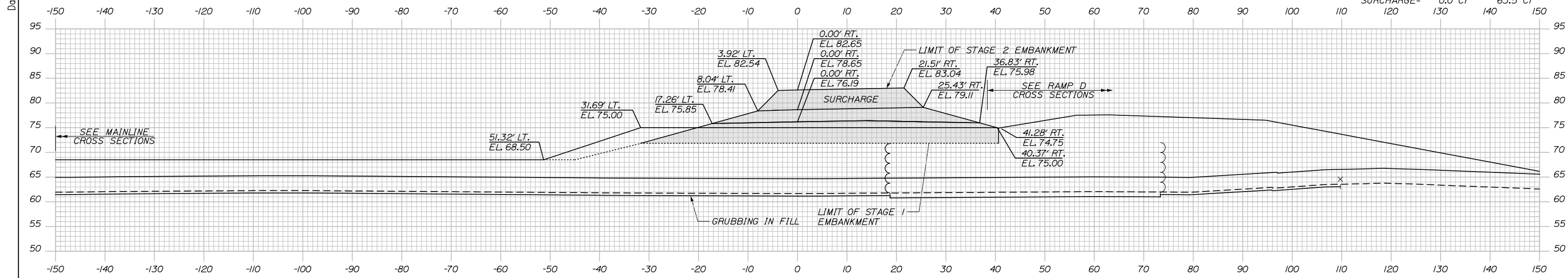
**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - NB OFF EVR  
 STA. 451+00 TO STA. 451+50

SHEET NUMBER: XS-92  
 CONTRACT: 2019.13  
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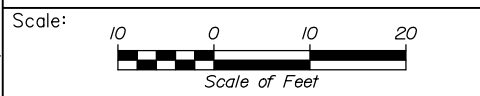
Filename: Xsect - Ramp D and D-1.dgn



Date: 7/26/2019



Filename: Xsect - Ramp D and D-1.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

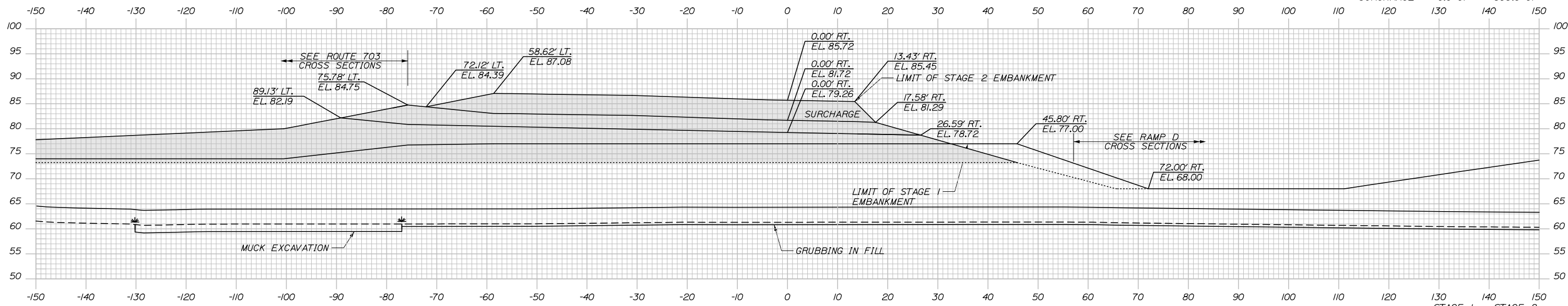
**EXIT 45**  
**EMBANKMENT PRELOAD**  
 CROSS SECTIONS - NB OFF EVR  
 STA. 452+00 TO STA. 452+50

SHEET NUMBER: XS-93  
 CONTRACT: 2019.13  
 169 OF 173

Date: 7/26/2019

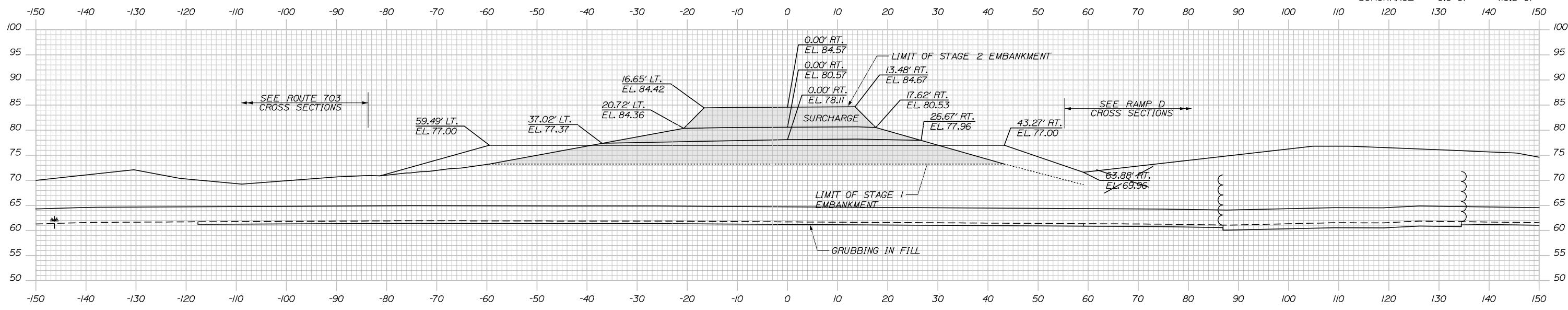
Filename: Xsect - Ramp D and D-1.dgn

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	2029.6 CY	876.7 CY
A.S.C.G.=	483.9 CY	318.9 CY
SURCHARGE=	0.0 CY	393.0 CY

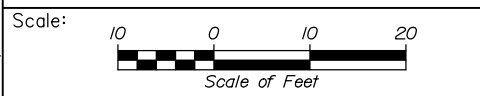


453+50.00

	STAGE 1	STAGE 2
C=	0.0 CY	0.0 CY
F=	3020.6 CY	1254.2 CY
A.S.C.G.=	757.2 CY	227.0 CY
SURCHARGE=	0.0 CY	419.5 CY



453+00.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date	By	Date	
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

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

**EXIT 45 EMBANKMENT PRELOAD**

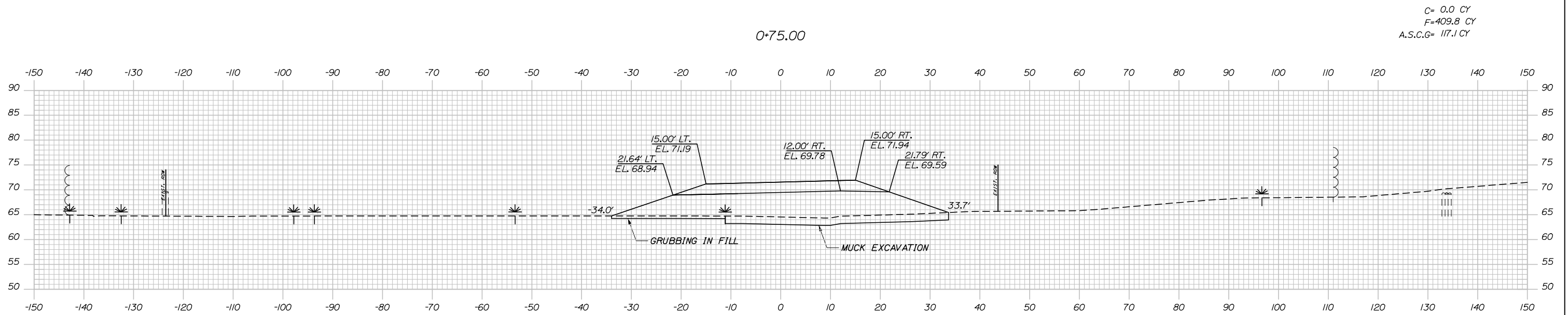
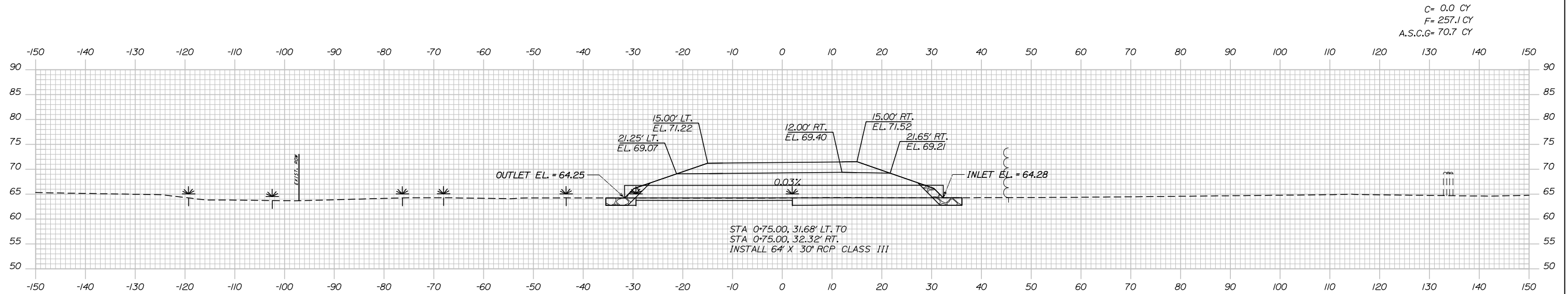
CROSS SECTIONS - NB OFF EVR  
 STA. 453+00 TO STA. 453+50

SHEET NUMBER: XS-94

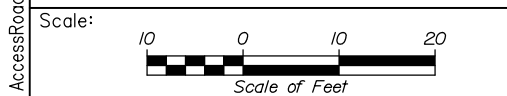
CONTRACT: 2019.13

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Date: 7/26/2019



0+50.00



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
Designed	EDD	07\19	Checked	JRH	07\19
Drawn	AJS	07\19	In Charge of	RAL	07\19

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

**EXIT 45  
INTERCHANGE RECONFIGURATION  
CROSS SECTIONS - ACCESS ROAD  
STA. 0+50 TO STA. 0+75**

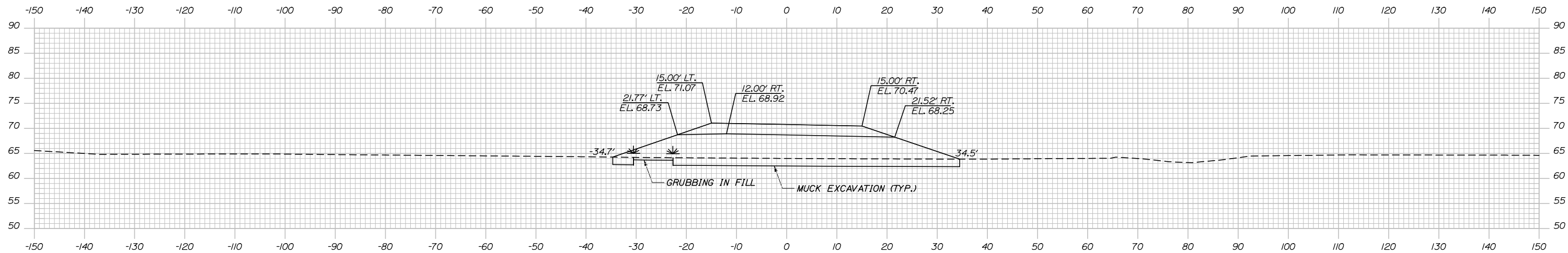
SHEET NUMBER: XS-95  
 171 OF 173

CONTRACT: 2019.13

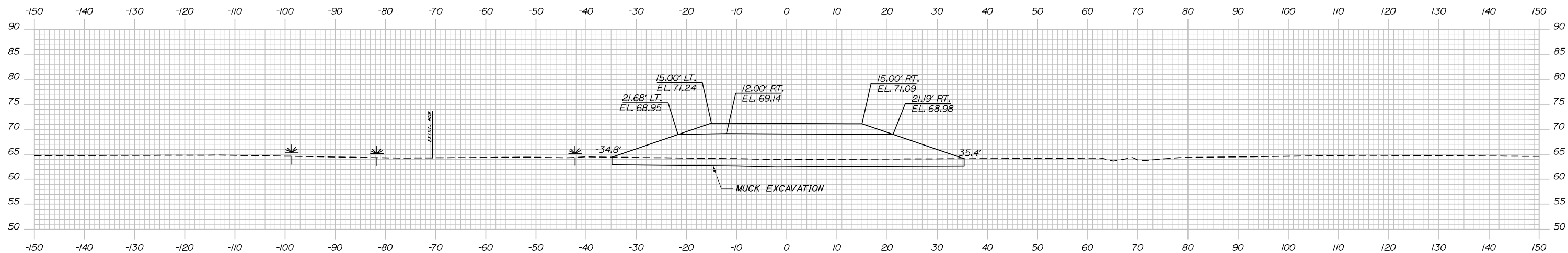
Filename: Xsect - AccessRoad.dgn

Date: 7/26/2019

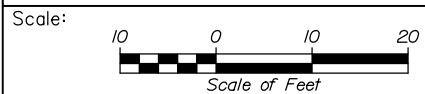
C= 0.0 CY  
F= 424.1 CY  
A.S.C.G= 158.8 CY



C= 0.0 CY  
F= 497.5 CY  
A.S.C.G= 141.9 CY



Filename: Xsect - AccessRoad.dgn



Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

EXIT 45  
INTERCHANGE RECONFIGURATION  
CROSS SECTIONS - ACCESS ROAD  
STA. 1+00 TO STA. 1+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.			
Designed	By	Date	Checked
	EDD	07\19	JRH
Drawn	By	Date	In Charge of
	AJS	07\19	RAL

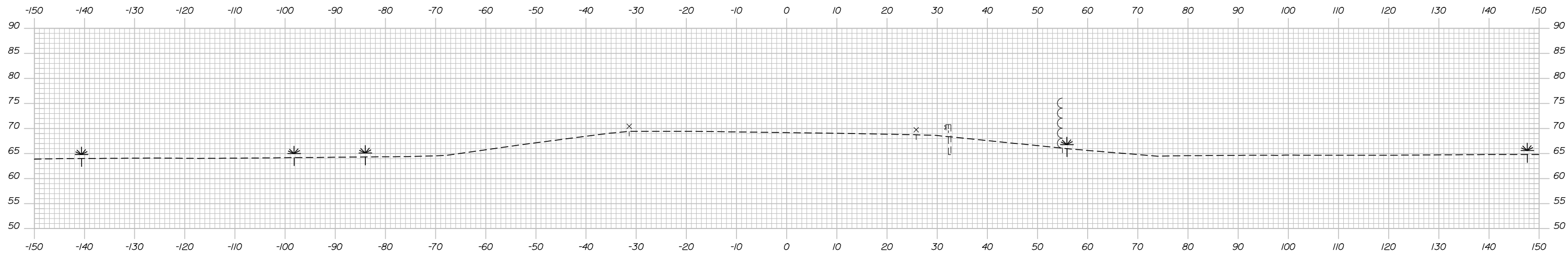
MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

CONTRACT: 2019.13

SHEET NUMBER: XS-96

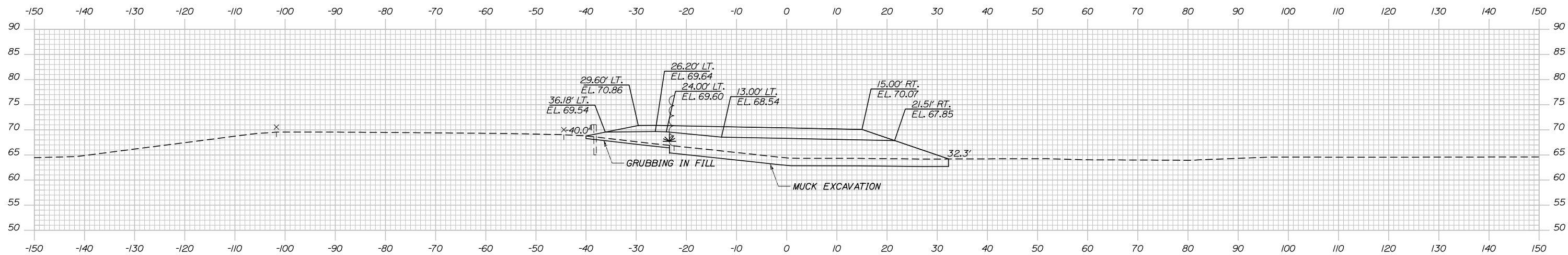
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Date: 7/26/2019



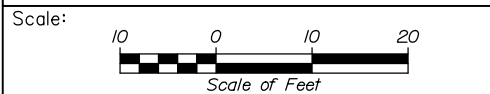
2+50.00

C= 0.0 CY  
F= 211.7 CY  
A.S.C.G= 100.4 CY



2+00.00

Filename: Xsect - AccessRoad.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Raymond W. Hanf, P.E.

	By	Date		By	Date
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

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

EXIT 45  
INTERCHANGE RECONFIGURATION  
CROSS SECTIONS - ACCESS ROAD  
STA. 2+00 TO STA. 2+50

SHEET NUMBER: XS-97  
173 OF 173

CONTRACT: 2019.13