

Date: 1/22/2018

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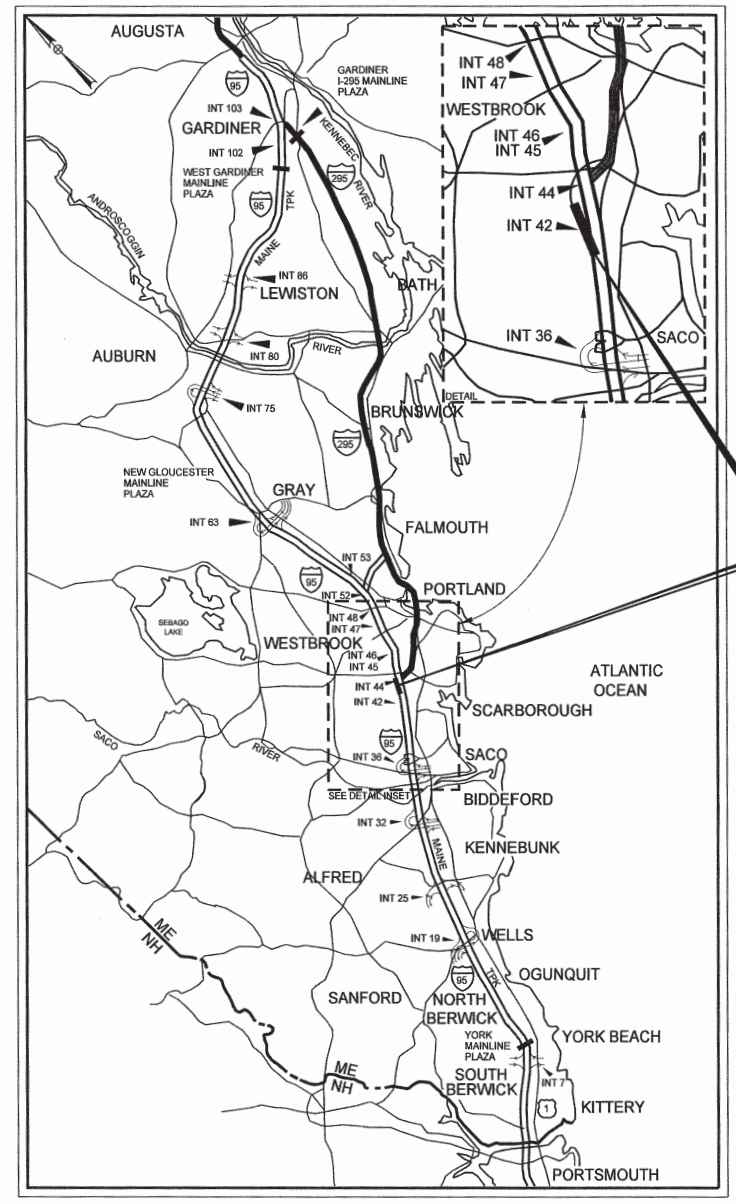
THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
ANN R. ROBINSON, MEMBER
JOHN E. DORITY, MEMBER
THOMAS J. ZUKE, MEMBER
KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2018.03 EXIT 44 SOUTHBOUND ON RAMP IMPROVEMENTS MM 44.3



LOCATION MAP

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HIGHWAY	
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APPROVED:
MAINE TURNPIKE AUTHORITY

Peter S. Merfield
PETER S. MERFIELD, P.E. - CHIEF OPERATIONS OFFICER
1/22/18
DATE

Stephen R. Tartre
STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING
AND BUILDING MAINTENANCE
1/22/18
DATE



Lauren E. Meek
LAUREN E. MEEK, P.E. - ASSOCIATE
1/23/2018
DATE

CONTRACT 2018.03

Date: 1/23/2018

Filename: ...MSTAV002_Estimate_Sheet.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.15	REMOVING MANHOLE OR CATCH BASIN	2	EA
202.202	REMOVING PAVEMENT SURFACE	2,700	SY
202.206	REMOVING RUMBLE STRIPS	3,800	LF
203.20	COMMON EXCAVATION	7,600	CY
203.24	COMMON BORROW	300	CY
203.25	GRANULAR BORROW	3,275	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1,125	CY
304.14	AGGREGATE BASE COURSE - TYPE A	1,050	CY
403.207	HOT MIX ASPHALT, 19.0 MM NOMINAL MAXIMUM SIZE	2,225	TON
403.2081	HOT MIX ASPHALT, 12.5 MM (POLYMER MODIFIED)	950	TON
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE, BASE	850	TON
409.15	BITUMINOUS TACK COAT, APPLIED	740	GAL
419.30	SAWING BITUMINOUS PAVEMENT	3,200	LF
470.08	BERM DROPOFF CORRECTION - GRINDINGS	150	TON
526.306	TEMPORARY CONCRETE BARRIER TYPE I - SUPPLIED BY AUTHORITY (2,900 LF)	1	LS
527.343	WORK ZONE CRASH CUSHIONS - TL-3	2	UNIT
603.175	18 INCH REINFORCED CONCRETE PIPE - CLASS III	24	LF
604.09	CATCH BASIN TYPE BI	2	EA
606.13	3"W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	825	LF
606.131	3"W-BEAM GUARDRAIL - MID-WAY SPLICE (8' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	200	LF
606.1351	TERMINAL END - ANCHORED END - 3"W-BEAM GUARDRAIL	1	EA
606.2652	TERMINAL END - REMOVE AND STACK	1	EA
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	17	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4	EA
606.356	UNDERDRAIN DELINEATOR POST	25	EA
606.3561	DELINEATOR POST - REMOVE AND RESET	10	EA
606.791	GUARDRAIL - 350 FLARED TERMINAL - 3"W-BEAM GUARDRAIL	1	EA
606.82	GUARDRAIL - REMOVE AND STACK EXISTING CRASH END	1	EA
610.08	PLAIN RIPRAP	5	CY
610.16	HEAVY RIP RAP	385	CY
610.18	STONE DITCH PROTECTION	10	CY
610.181	TEMPORARY STONE CHECK DAM	100	CY
613.319	EROSION CONTROL BLANKET	2,550	SY
615.07	LOAM	1,100	CY
618.14	SEEDING METHOD NUMBER 2	54	UNIT
618.141	SEEDING METHOD NUMBER 3	30	UNIT
619.1201	MULCH - PLAN QUANTITY	84	UNIT
619.1202	TEMPORARY MULCH	1	LS
620.58	EROSION CONTROL GEOTEXTILE	330	SY
626.122	QUAZITE JUNCTION BOX (18X11)	14	EA
626.22	NON-METALLIC CONDUIT	2,700	LF
626.31	18 INCH DIAMETER FOUNDATION	6	EA
626.32	24 INCH DIAMETER FOUNDATION	16	EA
626.33	30 INCH DIAMETER FOUNDATION	2	EA
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	11	EA
627.681	TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE - YELLOW OR WHITE	4,950	LF
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	18,050	LF
627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	14,100	LF
627.744	6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	14,900	LF
627.77	REMOVING EXISTING PAVEMENT MARKING	500	SF
627.812	TEMPORARY RAISED PAVEMENT MARKERS	500	EA
627.94	PAVEMENT MARKING TAPE	200	LF
627.941	PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE, 6-INCH WIDTH	600	LF
627.944	PAVEMENT MARKINGS - RECESSED TAPE - WORDS, ARROWS AND STOP BARS	160	SF
629.05	HAND LABOR, STRAIGHT TIME	30	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	20	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	20	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	30	HR
631.14	GRADER (INCLUDING OPERATOR)	30	HR
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	30	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	30	HR
631.36	FOREPERSON	30	HR
631.51	BUCKET TRUCK	20	HR
631.52	SCISSOR LIFT	20	HR
634.051	REMOVE AND STACK LIGHT STANDARD	3	EA
634.160	HIGHWAY LIGHTING	1	LS
634.175	REPLACEMENT LED FIXTURE, INSTALLED	3	EA
634.208	REMOVE AND RESET LIGHT STANDARD	4	EA
634.231	CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE	10	EA
645.105	REMOVE AND STACK SIGN	4	EA
645.161	BREAKAWAY DEVICE SINGLE POLE	4	EA
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGNS, TYPE I	102	SF
645.289	STEEL H-BEAM POLES	792	LB

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
645.501	REMOVE AND RESET MAINLINE SIGN NO. 1	1	EA
645.502	REMOVE AND RESET MAINLINE SIGN NO. 2	1	EA
652.30	FLASHING ARROW	2	EA
652.312	TYPE III BARRICADES	5	EA
652.33	DRUM	150	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	910	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.39	PORTABLE LIGHT TOWER	2	EA
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	2	EA
652.45	TRUCK MOUNTED ATTENUATOR	90	CD
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	90	CD
656.632	30' TEMPORARY SILT FENCE	5,800	LF
656.60	TEMPORARY BERMS	100	LF
656.62	TEMPORARY SLOPE DRAINS	100	LF
659.10	MOBILIZATION	1	LS

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	5,866
GRUBBING IN FILL	760
MUCK EXCAVATION (FROM CROSS SECTIONS)	889
PAVEMENT SALVAGE IN FILL	0
TOTAL COMMON EXCAVATION	7,515

ITEM 203.20 - COMMON EXCAVATION	EST	7,600
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FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,527
GRUBBING IN FILL	760
BACKFILL CATCH BASIN REMOVAL	18
MUCK EXCAVATION	889
TOTAL FILL	3,194

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION	7,515
DEDUCTIONS:	
GRUBBING IN CUT	1,350
GRUBBING IN FILL	760
MUCK EXCAVATION	889
PAVEMENT REMOVAL	1,296
(2) TOTAL DEDUCTIONS	4,295
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)	3,220
TOTAL AVAILABLE NON-ROCK EXCAVATION	3,220


COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	889
GRANULAR BORROW IN LOW WET AREAS	0
GRANULAR BORROW TO UPGRADE EXCAVATION	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
GRANULAR BORROW FOR UNDERCUTTING	0
GRANULAR BORROW =	889 x 1.00= 889

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL	3,194	
TOTAL AVAIL. NON-ROCK EXCAV.	3,220 x 0.90	2,898
(4) TOTAL AVAILABLE EXCAVATION	=	2,898
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION		296

Scale:			
No.	Revision	By	Date

Designed by:			
			
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
	By	Date	
Designed	TFD	1\22\18	Checked
Drawn	PLP	1\22\18	In Charge of

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44

SOUTHBOUND ON RAMP IMPROVEMENTS

ESTIMATED QUANTITIES AND EARTHWORK SUMMARY

SHEET NUMBER:

CONTRACT: 2018.03 2 OF 64

Date: 1/22/2018

Filename: ... \MSTA\003_GeneralNotes.dgn

GENERAL

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MaineDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2014 WITH UPDATES AND MaineDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
2. ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN IN ACCORDANCE WITH THE MaineDOT STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREAS AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
4. A COPY OF THE "GEOTECHNICAL REPORT" IS AVAILABLE FOR DOWNLOAD AT MAINETURNPIKE.COM.
5. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS OF THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
6. DUST CONTROL IS INCIDENTAL TO CONTRACT.
7. ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET UPON COMPLETION OF THE CONTRACT. REPLACEMENT POSTS FOR CONTRACTOR DAMAGED DELINEATOR POSTS WILL BE SUPPLIED BY THE CONTRACTOR AND WILL BE PAID UNDER ITEM 606.356I, DELINEATOR POST- REMOVE AND RESET.
8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID IMPACTS TO THE DELINEATED WETLAND AREAS BEYOND WHAT IMPACTS ARE SHOWN IN THESE PLANS.
9. ANY DAMAGE TO FINAL PAVEMENT, SLOPES, OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE A THE CONTRACTOR'S EXPENSE.

EARTHWORK

1. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
2. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
3. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS.
4. THE CLEARING SHOWN ON THE PLANS HAS BEEN COMPLETED BY THE MTA. ANY ADDITIONAL CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE. NO CLEARING SHALL BE ALLOWED WITHIN THE IDENTIFIED WETLANDS.
5. DO NOT EXCAVATE FOR AGGREGATE SUBBASE COURSE WHERE EXISTING MATERIAL IS SUITABLE AS DETERMINED BY THE RESIDENT.
6. COMMON BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR. GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.

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 PRIOR TO THE START OF THE WORK.
2. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE 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 THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

GUARDRAIL

1. AT THE END OF THE WORK DAY, EVERYDAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
2. ALL PROPOSED AND RESET GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID ALL EXISTING PROPOSED SUBSURFACE FEATURES.
3. ALL EXISTING GUARDRAIL NOTED TO BE REMOVED (EXCLUDING END TREATMENTS) SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
4. DAMAGE TO EXISTING PAVEMENT OR NEW PAVEMENT DUE TO THE INSTALLATION OF NEW OR RESET GUARDRAIL SHALL BE REPAIRED WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.
5. ONE REFLECTORIZED FLEXIBLE GUARDRAIL MARKER SHALL BE INSTALLED AT EACH GUARDRAIL TERMINAL. TWO REFLECTORIZED FLEXIBLE GUARDRAIL MARKERS SHALL BE INSTALLED AT EACH GUARDRAIL SRT-MIO END TREATMENT.
6. IN NON-GUARDRAIL AREAS, DELINEATORS SHALL BE SPACED AT 264' ON MAINLINE AND AT 50' ON RAMPS. THE CONTRACTOR SHALL CONFIRM THE DELINEATOR LAYOUT WITH THE RESIDENT. NEW DELINEATOR POSTS SHALL BE PAID FOR UNDER ITEM 606.356 AS UNDERDRAIN DELINEATOR POSTS.

PAVING

1. PLACEMENT OF THE FINAL LIFTS OF PAVEMENT SHALL BE DONE IN A MANNER TO LIMIT PAVEMENT JOINTS. CONTRACTOR SHALL COORDINATE WITH RESIDENT.
2. WHERE PROPOSED PAVEMENT JOINS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT ALONG A SMOOTH LINE TO A NEAT, EVEN AND VERTICAL JOINT, AS DIRECTED BY THE RESIDENT. SAWCUTTING SHALL BE PAID FOR UNDER ITEM 419.30. ALL WORK NECESSARY FOR THE PREPARATION OF THE JOINT SHALL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.
3. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED.
4. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PAVING ITEMS.
5. A COATING OF HOT RUBBERIZED ASPHALT (SS-S-140C) SHALL BE APPLIED TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS IN THE TOP LIFT OF PAVEMENT ALONG THE MAINE TURNPIKE AND RAMPS.
6. A BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL PAVEMENT LIFTS.


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. 4" 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 PRIOR TO A RAIN EVENT. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.I202 TEMPORARY MULCH.
4. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
5. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS. TEMPORARY SEED SHALL BE INCIDENTAL TO THE 618 ITEMS.
6. EROSION CONTROL BLANKET, ITEM 613.319, SHALL BE INSTALLED IN ALL DITCHES AND SLOPES GREATER THAN 3:1 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. SEEDING METHOD NO. 3 SHALL BE USED BEHIND GUARDRAIL AND SEEDING METHOD NO. 2 SHALL BE USED AT ALL OTHER AREAS.
7. A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF EROSION CONTROL ITEMS AROUND STOCKPILES, IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" (BMPP). PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO THE MATERIALS STOCKPILED.
9. TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL DOWNSPOUT LOCATIONS AND TOP OF EMBANKMENTS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES.
10. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS.

DRAINAGE

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
3. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
4. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL STORM DRAIN OUTLETS.
5. REMOVAL OF EXISTING DRAINAGE PIPES, AS NOTED ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.

Scale:			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PZA	1\22\18	In Charge of	GAE	1\22\18

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MAINE
TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS

GENERAL NOTES

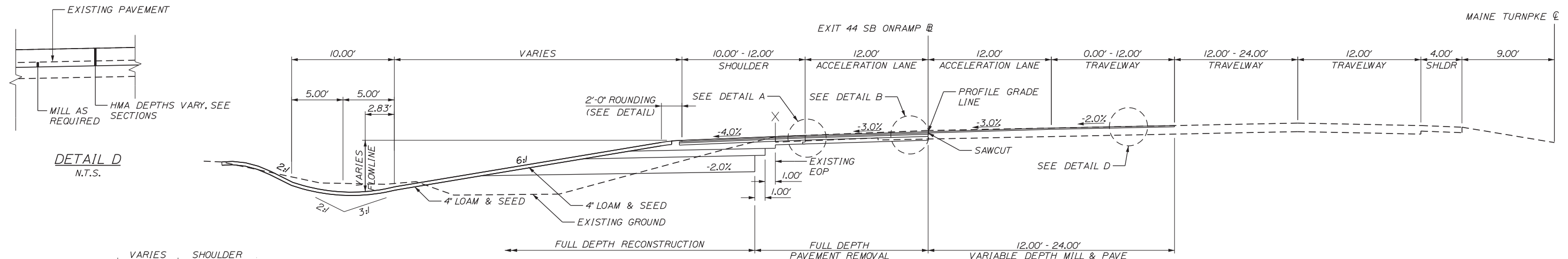
SHEET NUMBER:

CONTRACT: 2018.03

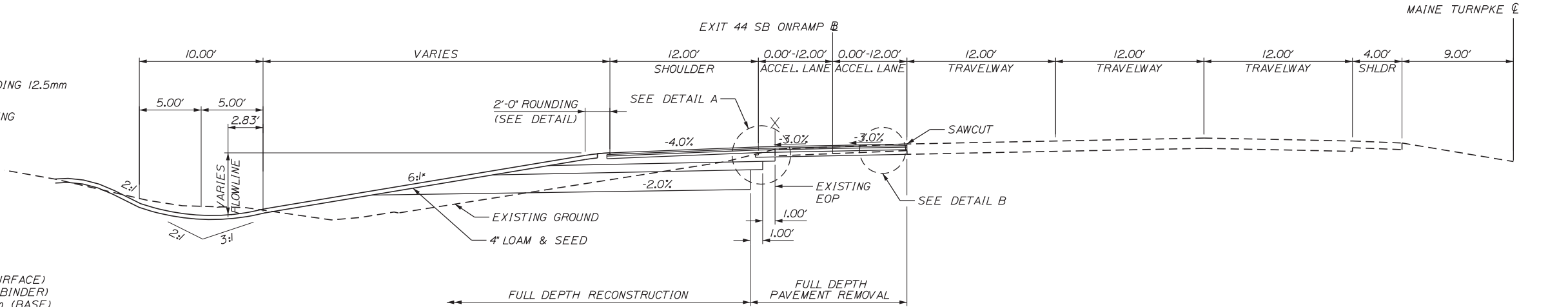
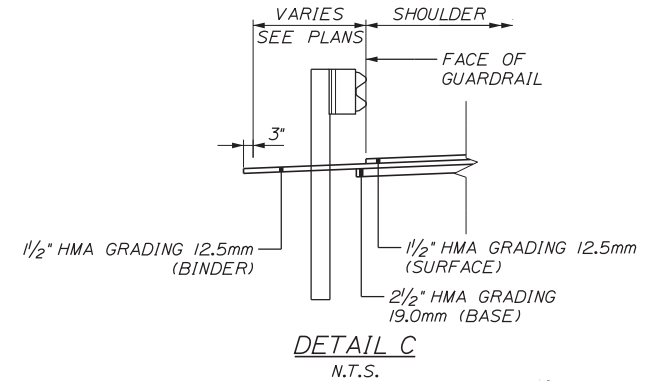
3 OF 64

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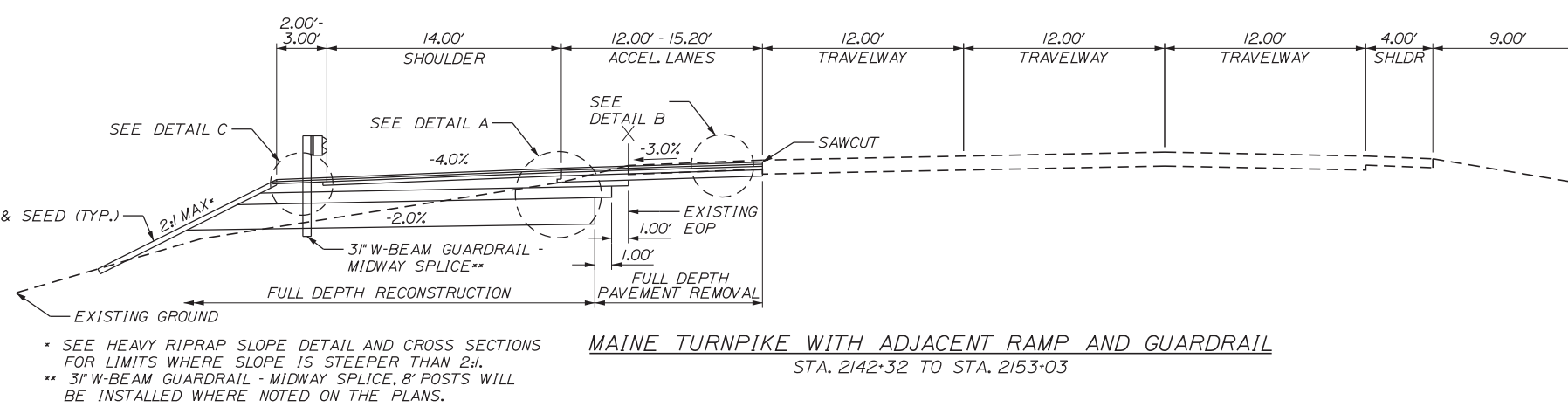
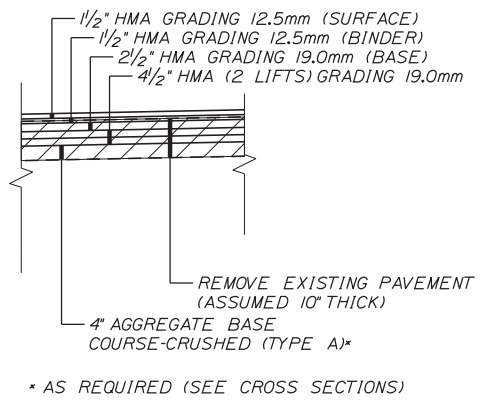
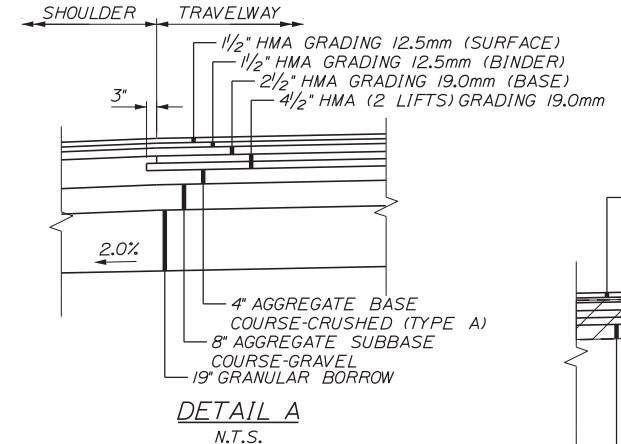
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MAINE TURNPIKE WITH ADJACENT RAMP
STA. 2157+00 TO STA. 2164+22



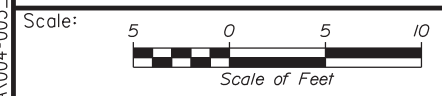
MAINE TURNPIKE WITH ADJACENT RAMP
STA. 2139+20 TO STA. 2142+32
STA. 2153+03 TO STA. 2157+00



MAINE TURNPIKE WITH ADJACENT RAMP AND GUARDRAIL
STA. 2142+32 TO STA. 2153+03

* SIDESLOPE SHALL BE AS NOTED ON CROSS SECTIONS FROM STA. 2139+20 TO STA. 2142+25

* SEE HEAVY RIPRAP SLOPE DETAIL AND CROSS SECTIONS FOR LIMITS WHERE SLOPE IS STEEPER THAN 2:1.
** 3\"/>



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date	By	Date	
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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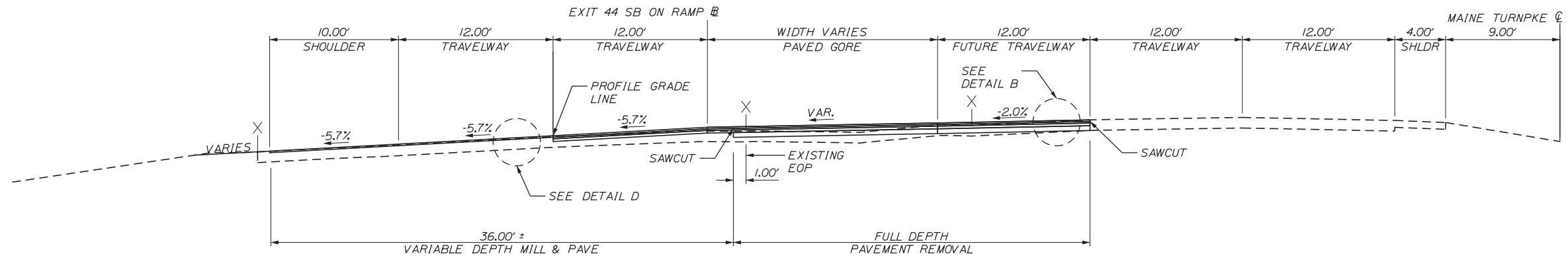


THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
TYPICAL SECTIONS 1

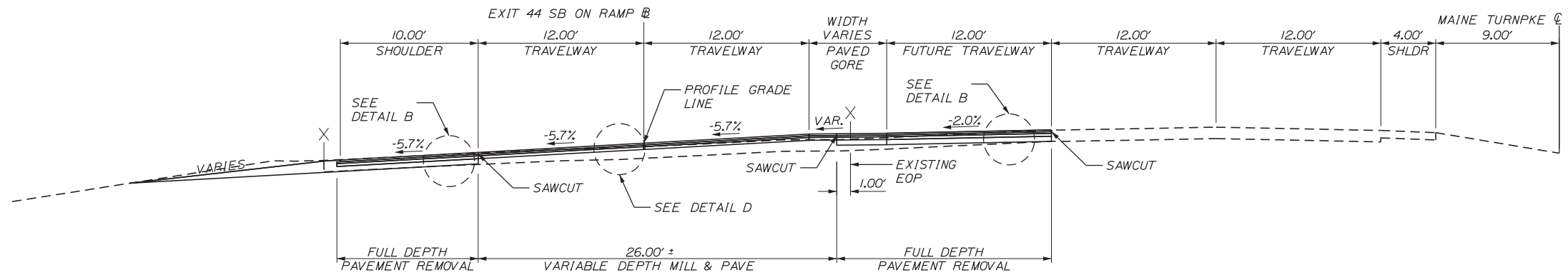
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

Date: 1/22/2018



**EXIT 44 SB ON RAMP
SUPERELEVATED**
STA. 166+00 TO STA. 167+00

MAINE TURNPIKE WITH ADJACENT RAMP
STA. 2166+00 TO STA. 2167+00

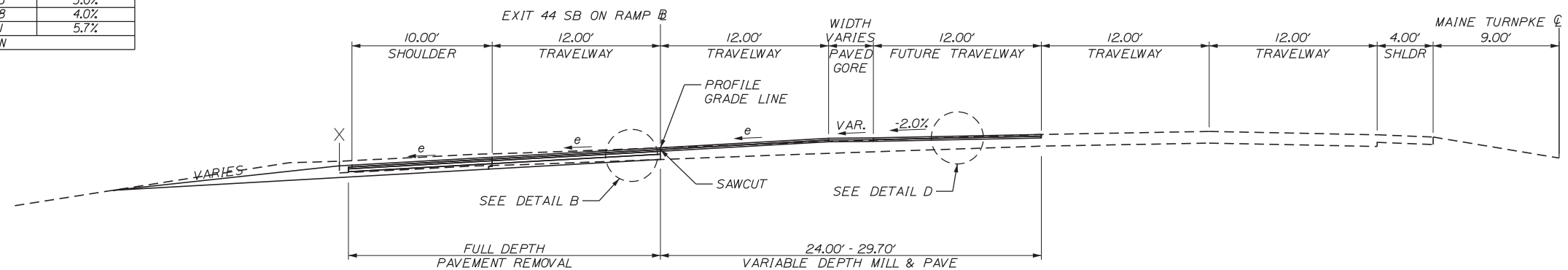


**EXIT 44 SB ON RAMP
SUPERELEVATED**
STA. 165+50 TO STA. 166+00

MAINE TURNPIKE WITH ADJACENT RAMP
STA. 2165+50 TO STA. 2166+00

**ON RAMP ^B
SUPERELEVATION TABLE**

LEFT SHOULDER	LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY
MATCH MAINLINE			
-4.0%	-3.0%	164+03	3.0%
-4.0%	-4.0%	164+28	4.0%
-5.7%	-5.7%	164+71	5.7%
FULL SUPERELEVATION			



**EXIT 44 SB ON RAMP
SUPERELEVATED**
STA. 164+22 TO STA. 165+50

MAINE TURNPIKE WITH ADJACENT RAMP
STA. 2164+22 TO STA. 2165+50



No.	Revision	By	Date

Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS**

TYPICAL SECTIONS 2

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

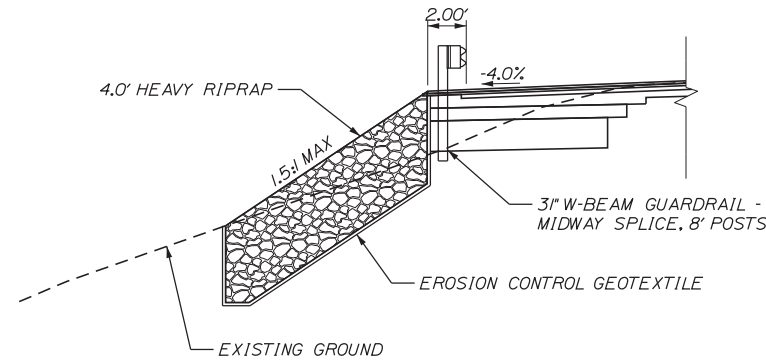
CONTRACT: 2018.03

SHEET NUMBER: TS-2

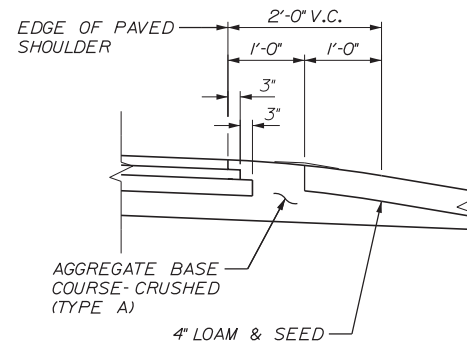
5 OF 64

Filename: ...MSTA\004-005_Typical.dgn

Date: 1/22/2018



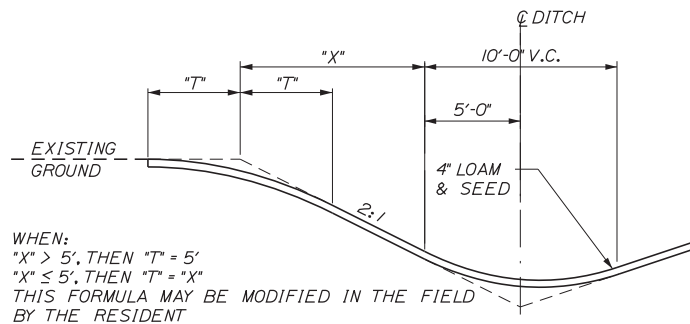
HEAVY RIPRAP SLOPE PROTECTION
 STA. 2146+90.00 TO STA. 2148+50
 N.T.S.



**2'-0\"/>
 N.T.S.**

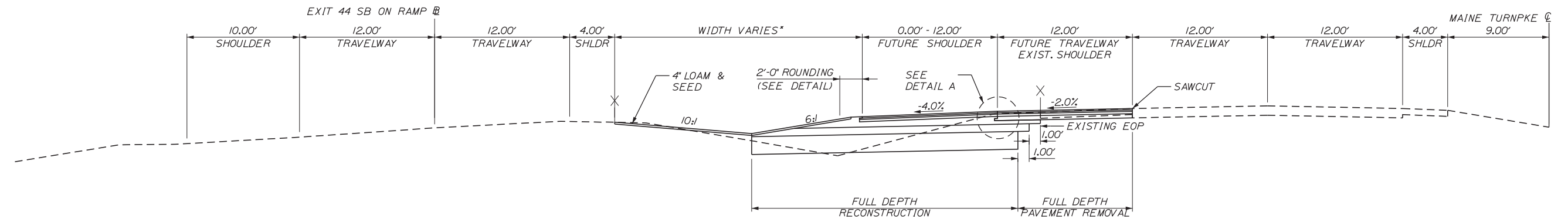
GENERAL NOTES

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN, VERTICAL FACE.
4. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
5. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS AND PAVEMENT AND CONCRETE JOINTS PRIOR TO PAVING. REMAINDER OF SAWCUT TO BE BITUMINOUS TACK COAT. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
6. WHEN SUPERELEVATION EXCEEDS 4%, LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVEL LANE.
7. "ROLLOVER" ALGEBRAIC DIFFERENCE IN RATES OF CROSS SLOPE SHALL NOT EXCEED 8%.
8. TRAVELWAY AND SHOULDER CONFIGURATION SHOWN IS FOR FUTURE CONDITIONS. SEE STRIPING PLANS FOR THE INTERIM CONDITIONS.



WHEN:
 "X" > 5', THEN "T" = 5'
 "X" ≤ 5', THEN "T" = "X"
 THIS FORMULA MAY BE MODIFIED IN THE FIELD BY THE RESIDENT

BACKSLOPE ROUNDING DETAIL



EXIT 44 SB ON RAMP
SUPERELEVATED
 STA. 167+00 TO STA. 168+00

MAINE TURNPIKE WITH ADJACENT RAMP
 STA. 2167+00 TO STA. 2168+00

Filename: ...MSTA\004-005_Typical.dgn



No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR
MEMORIAL HIGHWAY

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 TYPICAL SECTIONS 3

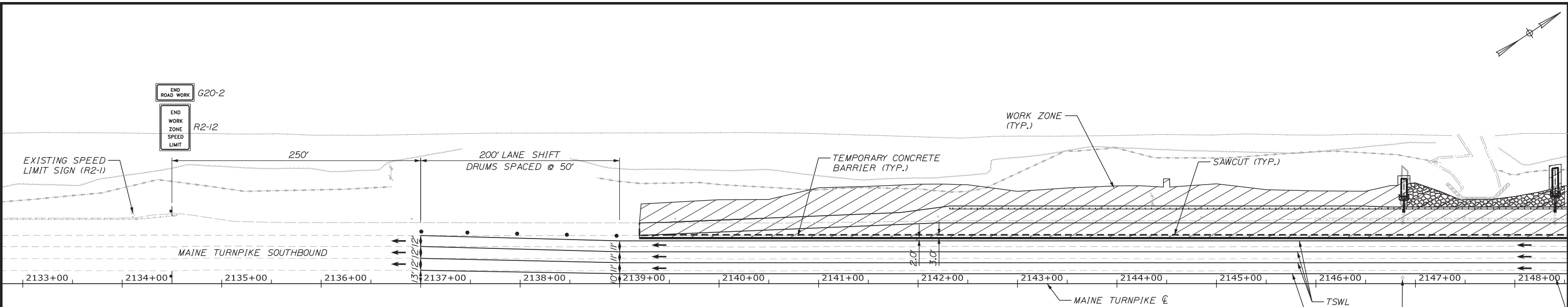
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2018.03

SHEET NUMBER: TS-3

6 OF 64

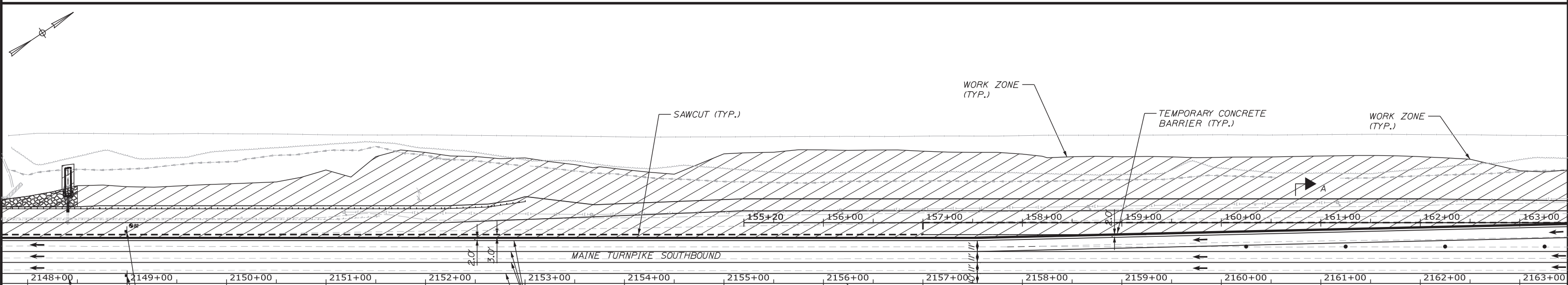
Date: 1/22/2018



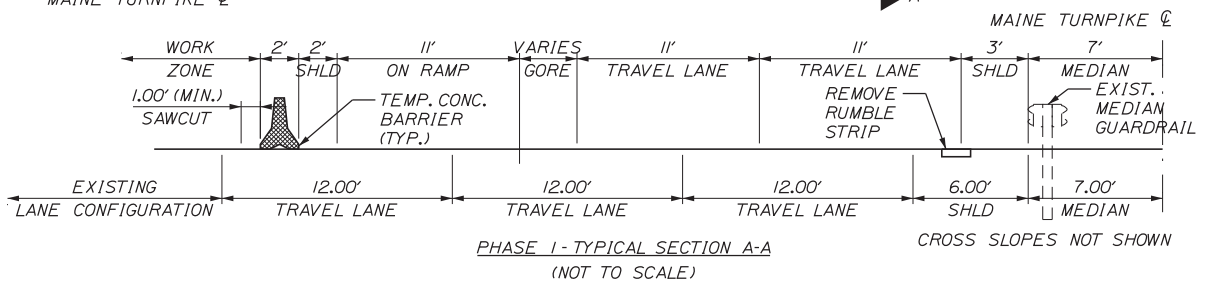
LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 ← - TRAFFIC FLOW

- NOTES**
- RUMBLE STRIPS SHALL BE REMOVED FROM STA. 2136+00 TO STA. 2175+00, LT. (MEDIAN) AND FROM STA. 2159+00 TO 2165+50, LT. (GORE)
 - PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN, THE EXISTING CATCH BASIN GRATE SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX IA AS MANUFACTURED BY SIKA OR AN APPROVED EQUAL SEALER. ELASTOMERIC SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. THE EXISTING GRATE SHALL BE REINSTALLED AND ALLOWED TO SET FOR A MINIMUM OF 1 1/2 -HOUR BEFORE RECEIVING TRAFFIC LOADS. WORK SHALL BE INCIDENTAL TO ITEM 652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES.
 - PRIOR TO SHIFTING TRAFFIC TOWARD THE MEDIAN, THE EXISTING SHOULDER SHALL BE REVIEWED AND BERM CORRECTIONS SHALL BE MADE AS DIRECTED BY THE RESIDENT. SEE SPECIAL PROVISION 470.

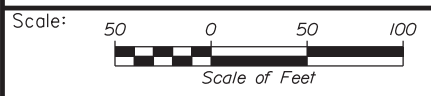
SEAL EXISTING CATCH BASIN (SEE NOTE 2)



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 ← - TRAFFIC FLOW



Filename: ...MSTA\006_MOT_PH1_01.dgn



Designed by: **Stantec**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

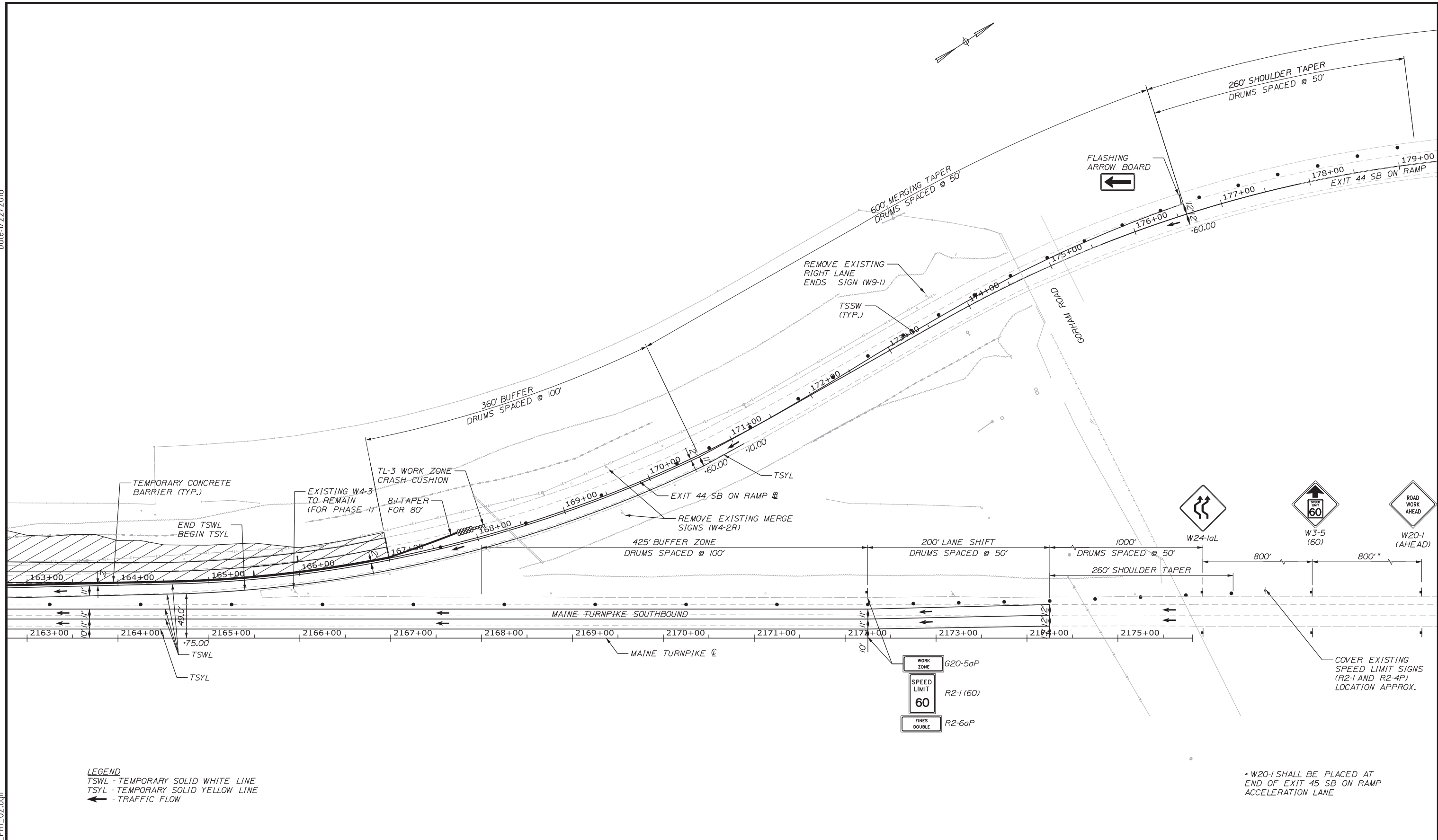
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 PHASE 1
 MAINTENANCE OF TRAFFIC PLAN 1 OF 3

SHEET NUMBER: MOT-1
 CONTRACT: 2018.03
 7 OF 64

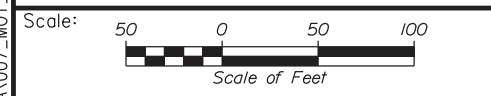
Date: 1/22/2018

Filename: ...MSTA\007_MOT_PH1_02.dgn



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 ← - TRAFFIC FLOW

* W20-1 SHALL BE PLACED AT END OF EXIT 45 SB ON RAMP ACCELERATION LANE



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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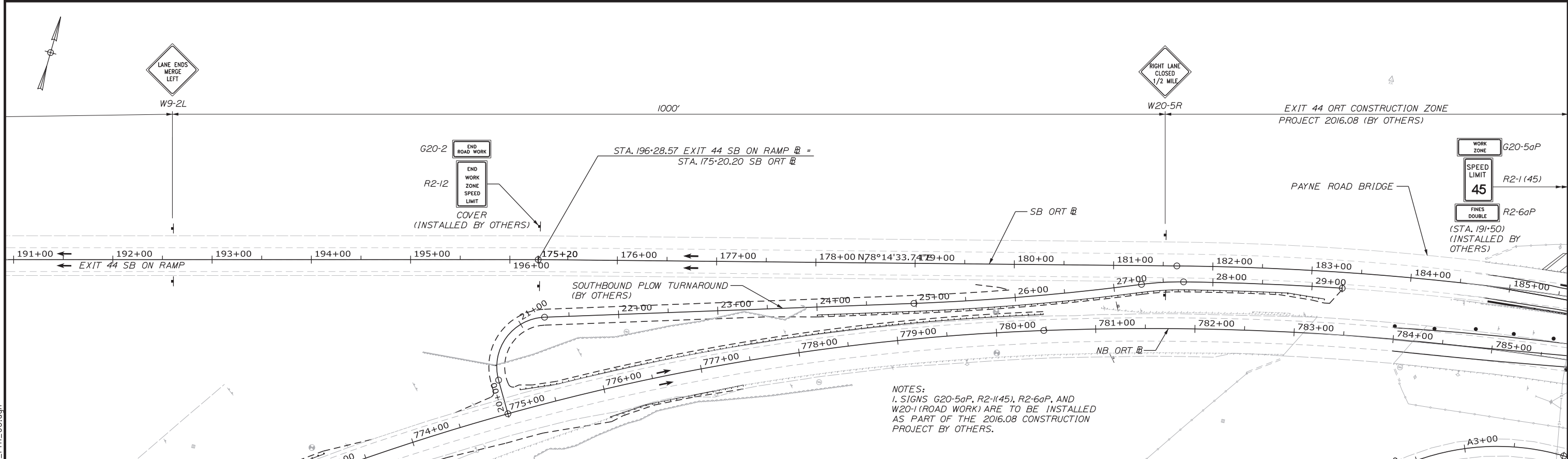
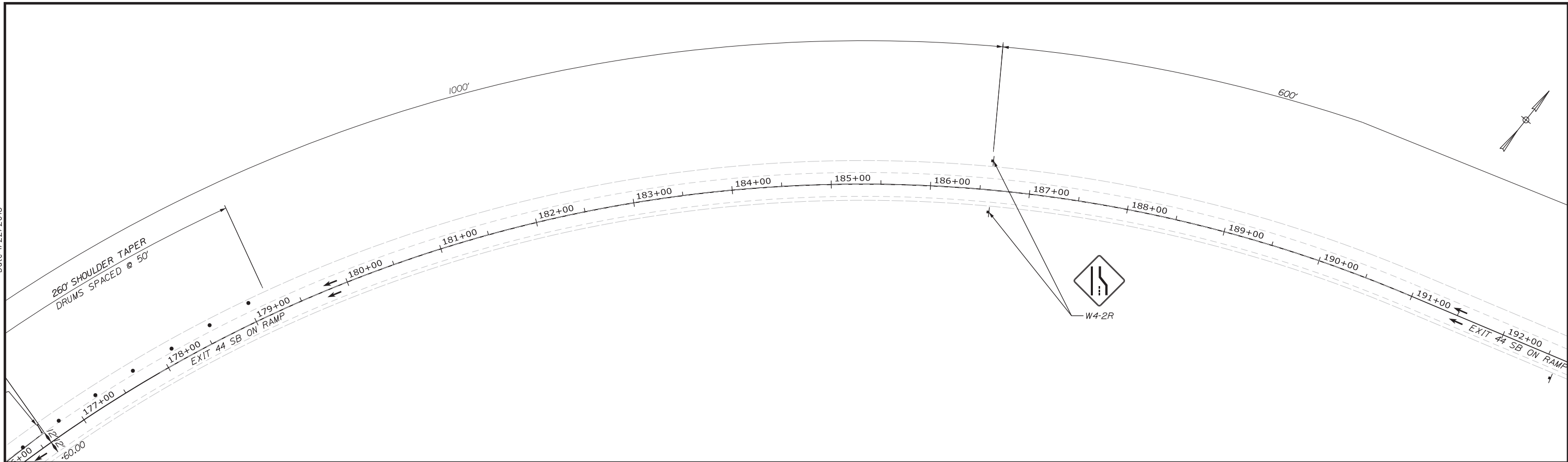
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44 SOUTHBOUND ON RAMP IMPROVEMENTS PHASE 1 MAINTENANCE OF TRAFFIC PLAN 2 OF 3

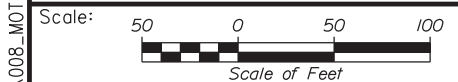
SHEET NUMBER: MOT-2
 8 OF 64

CONTRACT: 2018.03

Date: 1/22/2018



NOTES:
 1. SIGNS G20-5aP, R2-1(45), R2-6aP, AND W20-1 (ROAD WORK) ARE TO BE INSTALLED AS PART OF THE 2016.08 CONSTRUCTION PROJECT BY OTHERS.



Designed by:



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**EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 PHASE 1
 MAINTENANCE OF TRAFFIC PLAN 3 OF 3**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
Designed	TFD	1\22\18	Checked
Drawn	PLP	1\22\18	In Charge of
			GAE

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

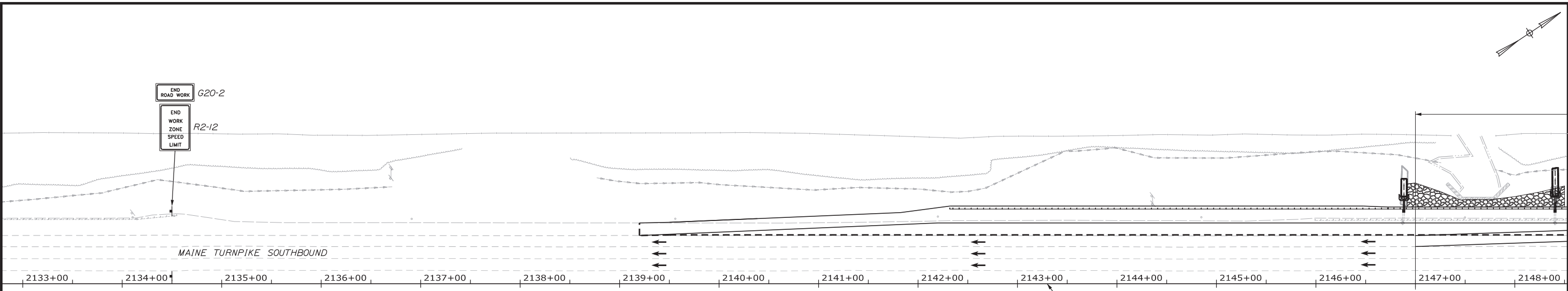
CONTRACT: 2018.03

SHEET NUMBER: MOT-3

9 OF 64

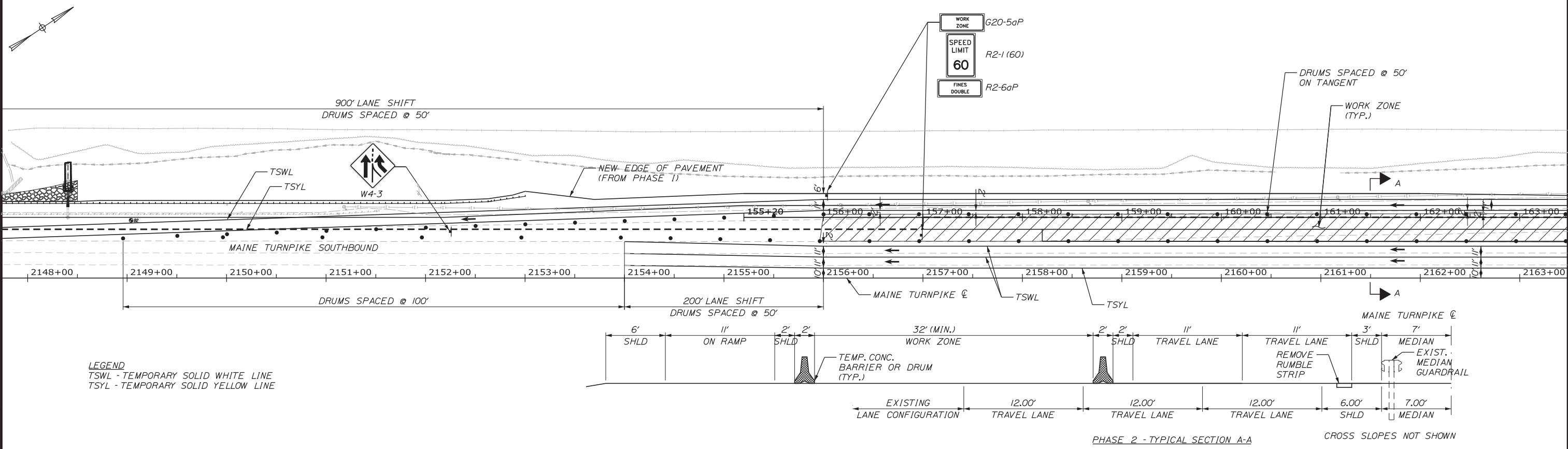
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Date: 1/22/2018

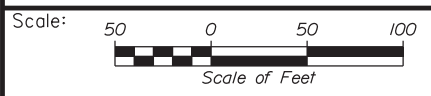


LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE

NOTES
 1. TEMPORARY PAINTED PAVEMENT MARKINGS SHALL NOT BE INSTALLED ON NEW PAVEMENT, TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.
 2. RAMP LIGHTING SHALL BE OPERATIONAL PRIOR TO BEGINNING PHASE 2.



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE



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**EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 PHASE 2
 MAINTENANCE OF TRAFFIC PLAN 1 OF 3**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	By	Date	Checked	By	Date
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2018.03

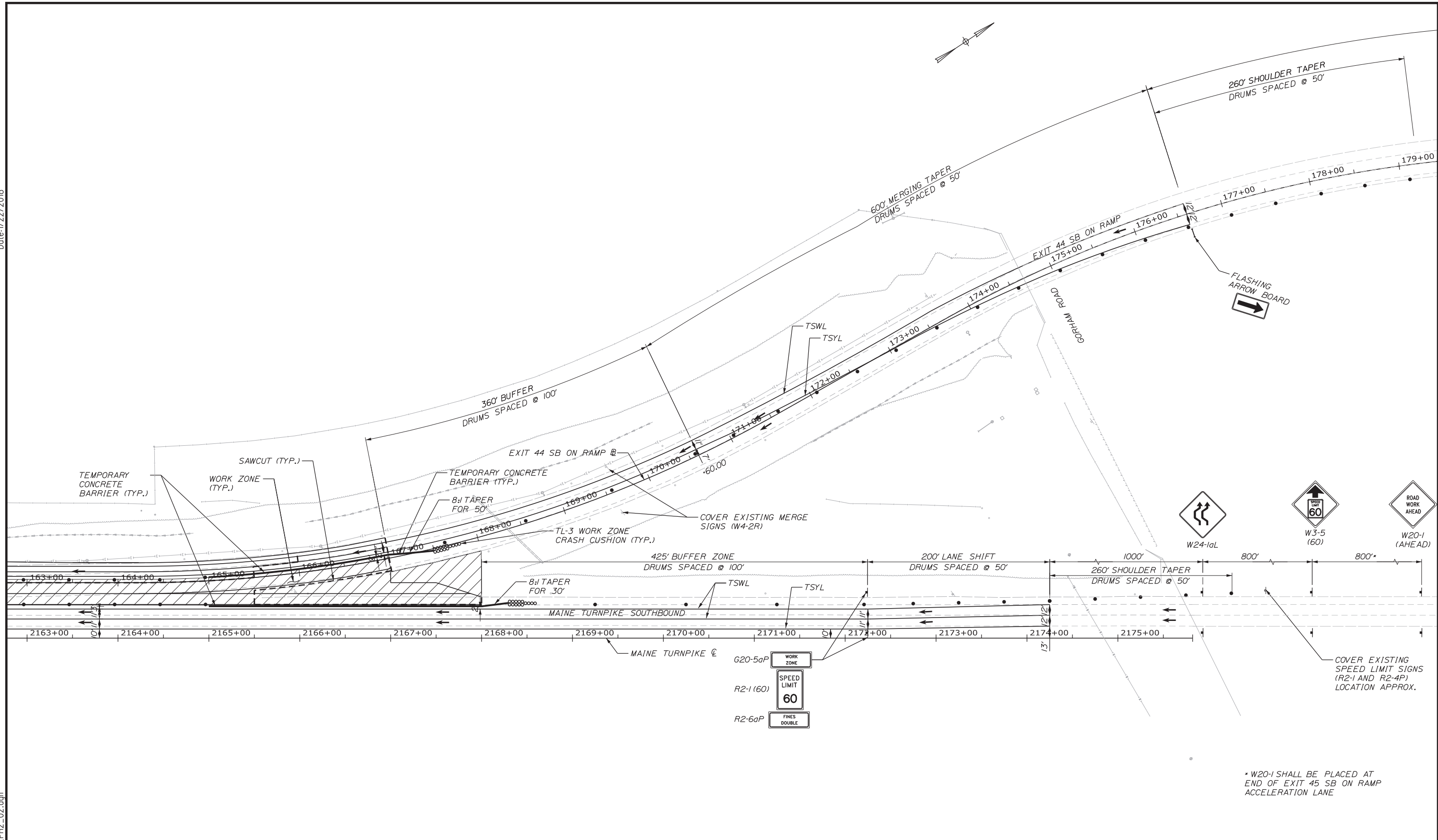
SHEET NUMBER: MOT-4

10 OF 64

Filename: ...MSTA\009_MOT_PH2_01.dgn

Date: 1/22/2018

Filename: ...MSTA\010_MOT_PH2_02.dgn



* W20-1 SHALL BE PLACED AT END OF EXIT 45 SB ON RAMP ACCELERATION LANE

Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

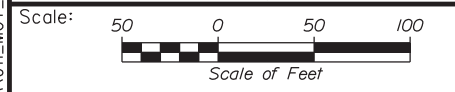
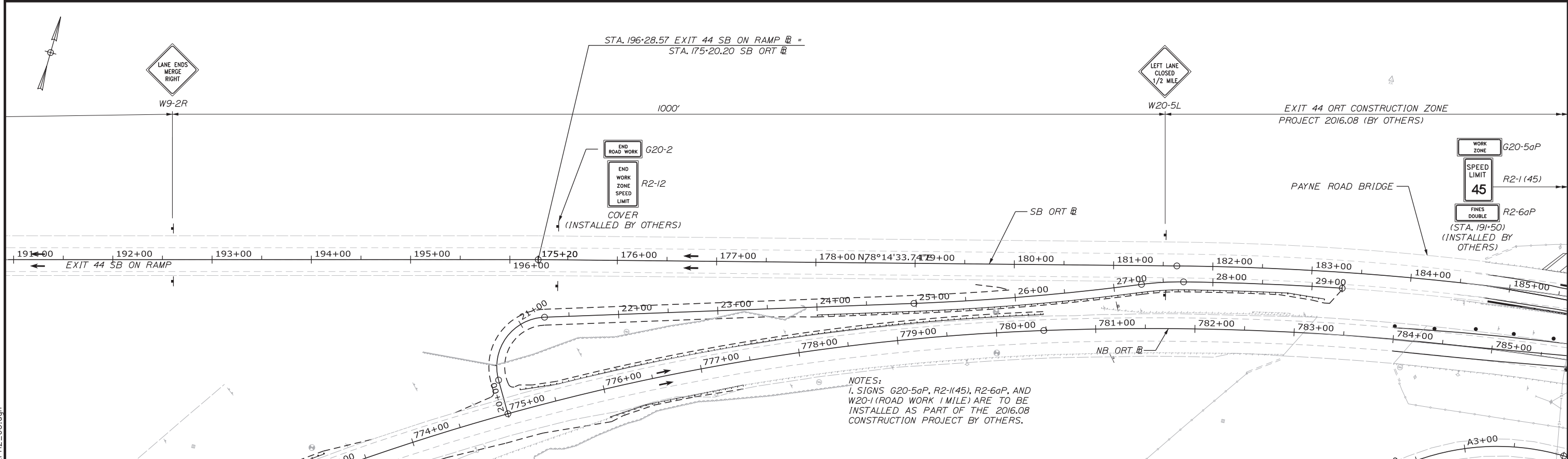
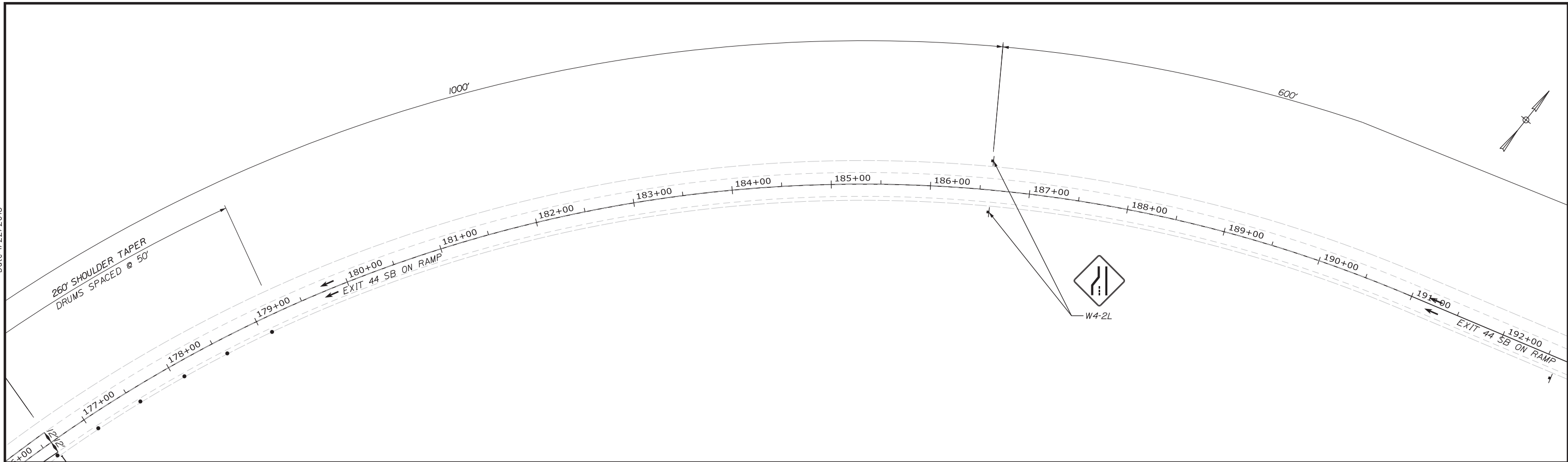
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
PHASE 2
MAINTENANCE OF TRAFFIC PLAN 2 OF 3

SHEET NUMBER: MOT-5
11 OF 64

CONTRACT: 2018.03

Date: 1/22/2018



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

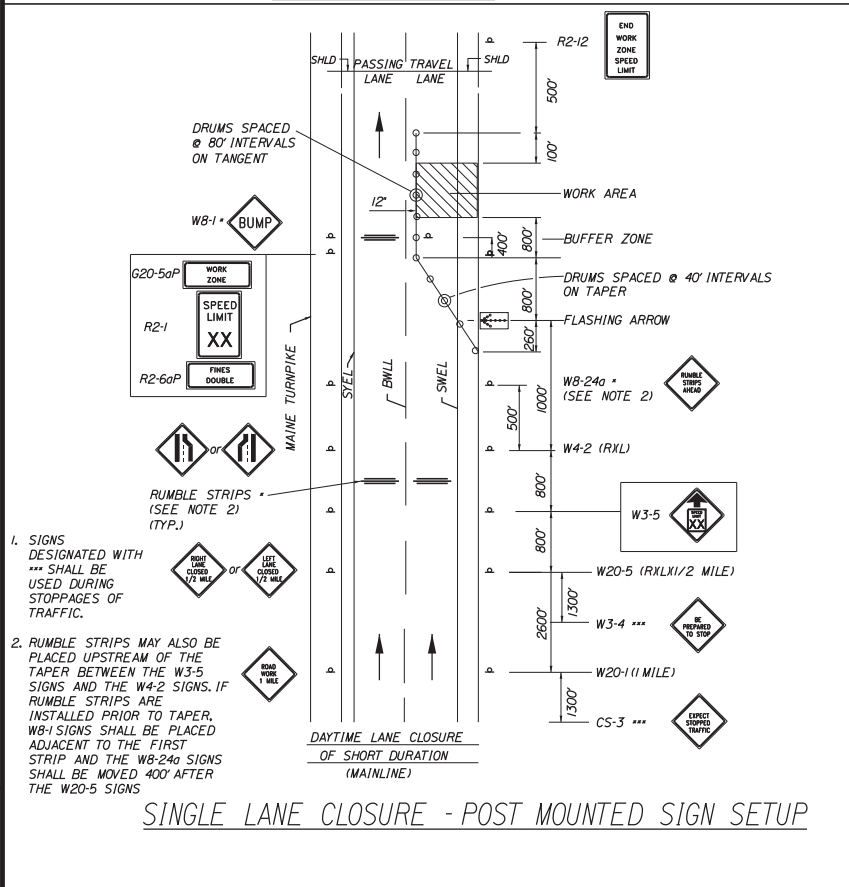
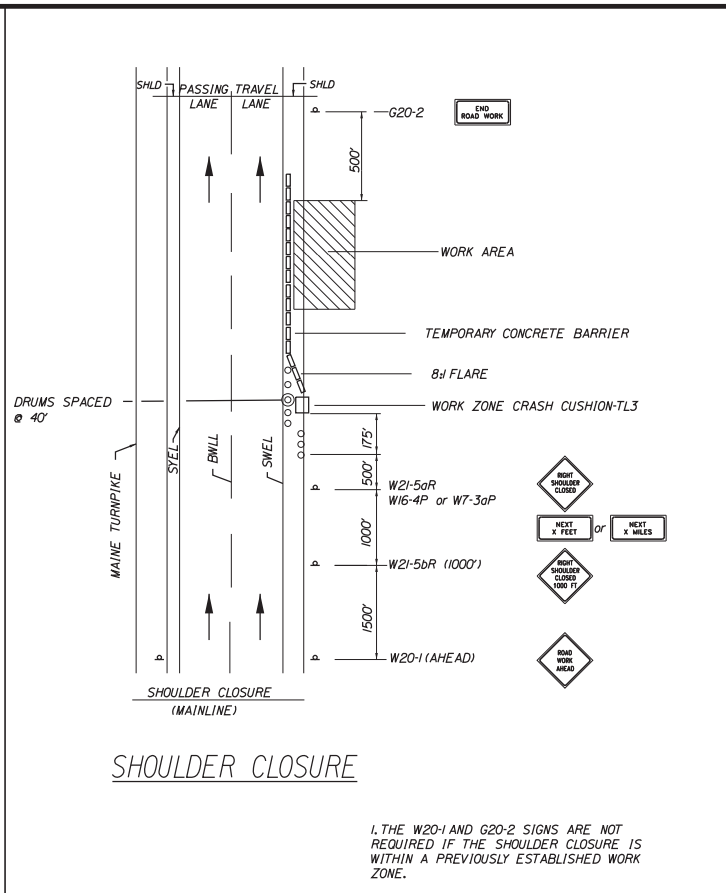
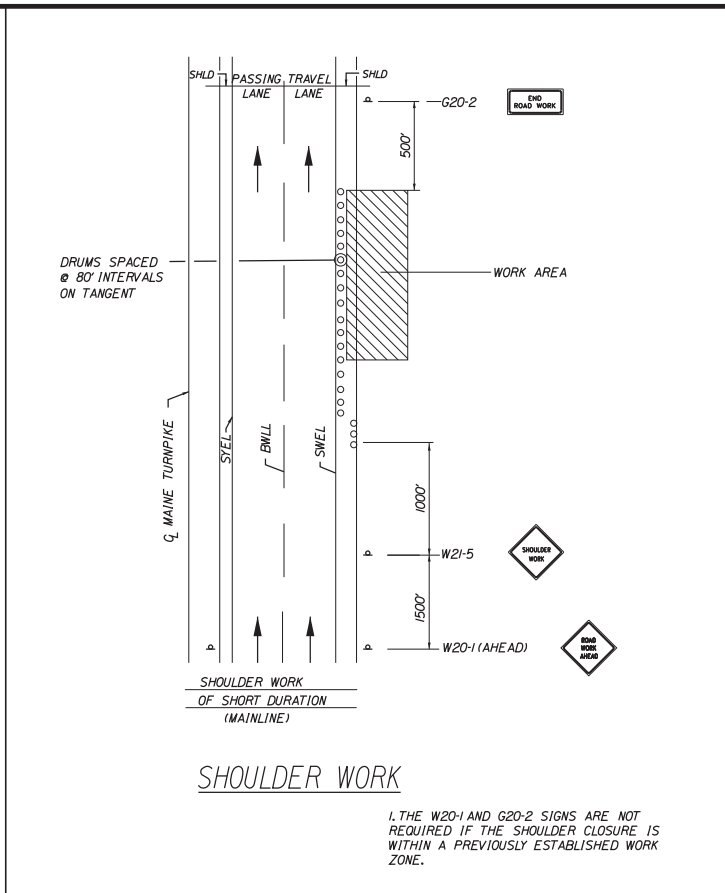
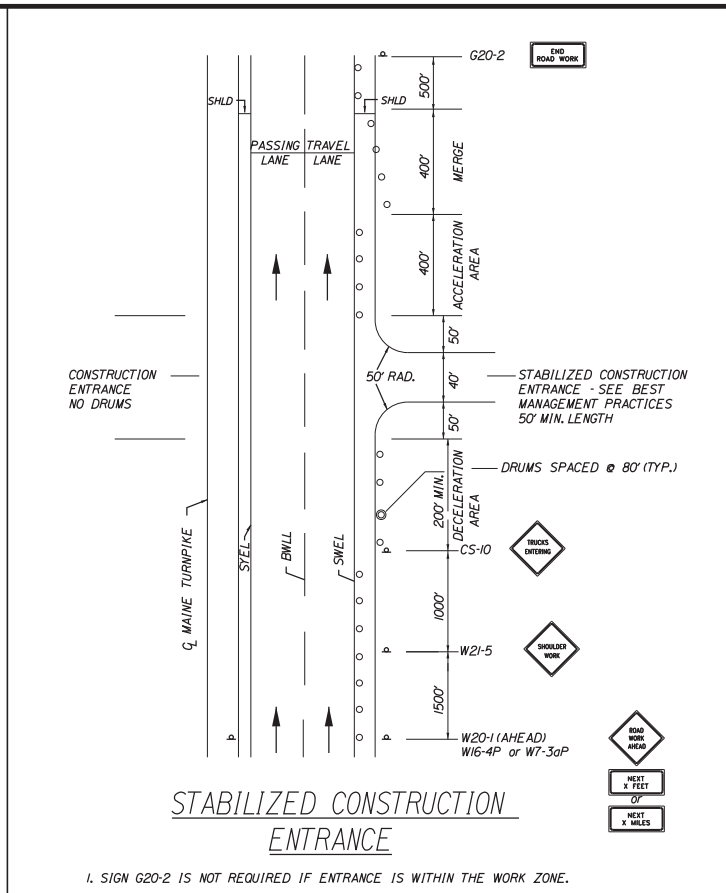
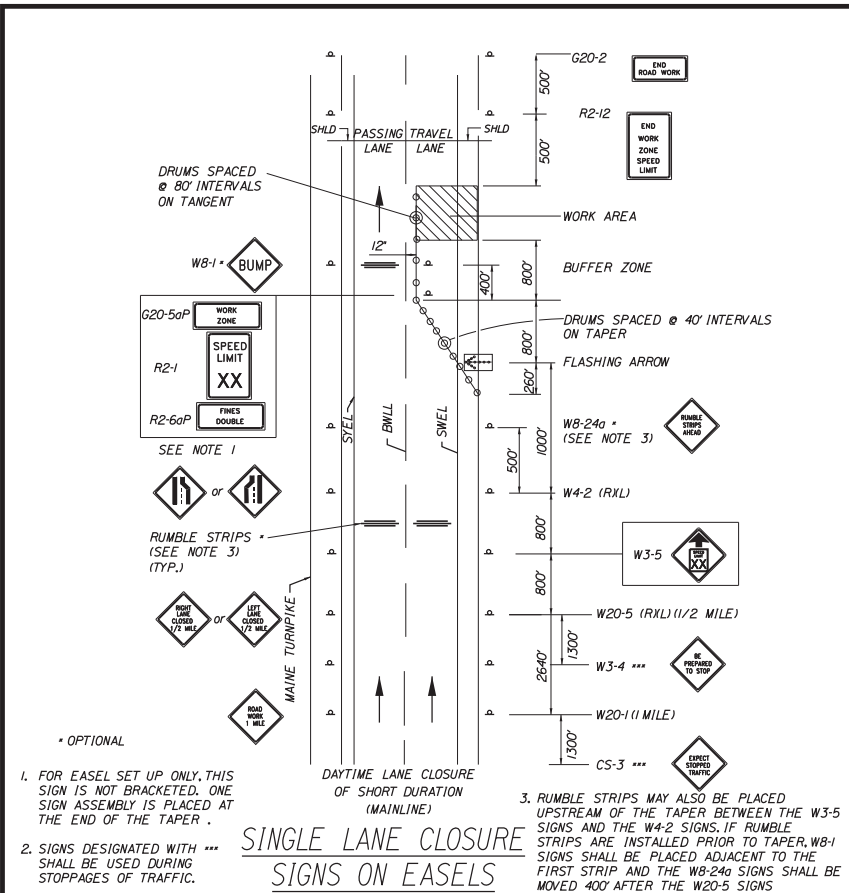
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
PHASE 2
MAINTENANCE OF TRAFFIC PLAN 3 OF 3

SHEET NUMBER: MOT-6
 CONTRACT: 2018.03
 12 OF 64

Filename: ...MSTA\011_MOT_PH2_03.dgn

Date: 1/22/2018



ABBREVIATIONS FOR ALL M.O.T. PLANS

TSWL = TEMPORARY SOLID WHITE EDGE LINE TSYL = TEMPORARY SOLID YELLOW EDGE LINE

GENERAL MAINTENANCE OF TRAFFIC NOTES:

- ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- 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. NOTE THERE IS A 2009 EDITION OF MUTCD.
- 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 PAVEMENT MARKINGS.
- TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.681 - TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINES, YELLOW OR WHITE.
- TEMPORARY PAINTED PAVEMENT MARKINGS SHALL NOT BE INSTALLED ON NEW PAVEMENT; TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.
- EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.343 - WORK ZONE CRASH CUSHION - TL-3.
- ALL TEMPORARY BARRIER SHALL BE SET WITH A MINIMUM 8:1 TAPER. THE 8:1 TAPER BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES.
- REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
- FOR SIGN DETAIL, SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.
- "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.
- TRUCK MOUNTED ATTENUATOR SHALL NOT BE LOCATED WITHIN THE BUFFER ZONE.
- TWO COMPLETE LANE CLOSURE EASEL MOUNTED SIGN PACKAGES (LEFT OR RIGHT LANE - TURNPIKE), INCLUDING WORK ZONE SPEED SIGNS, HAVE BEEN INCLUDED IN THE CONTRACT TO PERMIT SETUP AND REMOVAL OF THE PERMANENT WORK ZONE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- THESE PLANS SHOW THE GENERAL LAYOUT OF CONSTRUCTION ZONE SIGNING; ALL LOCATIONS REQUIRING SIGNS MAY NOT BE SHOWN. FINAL CONTENT AND LAYOUT OF SIGNS MUST BE SUBMITTED TO AND APPROVED BY THE RESIDENT.
- ALL STOP, YIELD, SPEED LIMIT AND EXIT SIGNS MUST BE MOUNTED 5 FEET ABOVE THE PAVEMENT.
- WORK ZONE SPEED LIMIT ASSEMBLY MAY BE REPLACED WITH AN AUTOMATED WORK ZONE SPEED LIMIT SIGN (ITEM 652.451).

Scale:

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

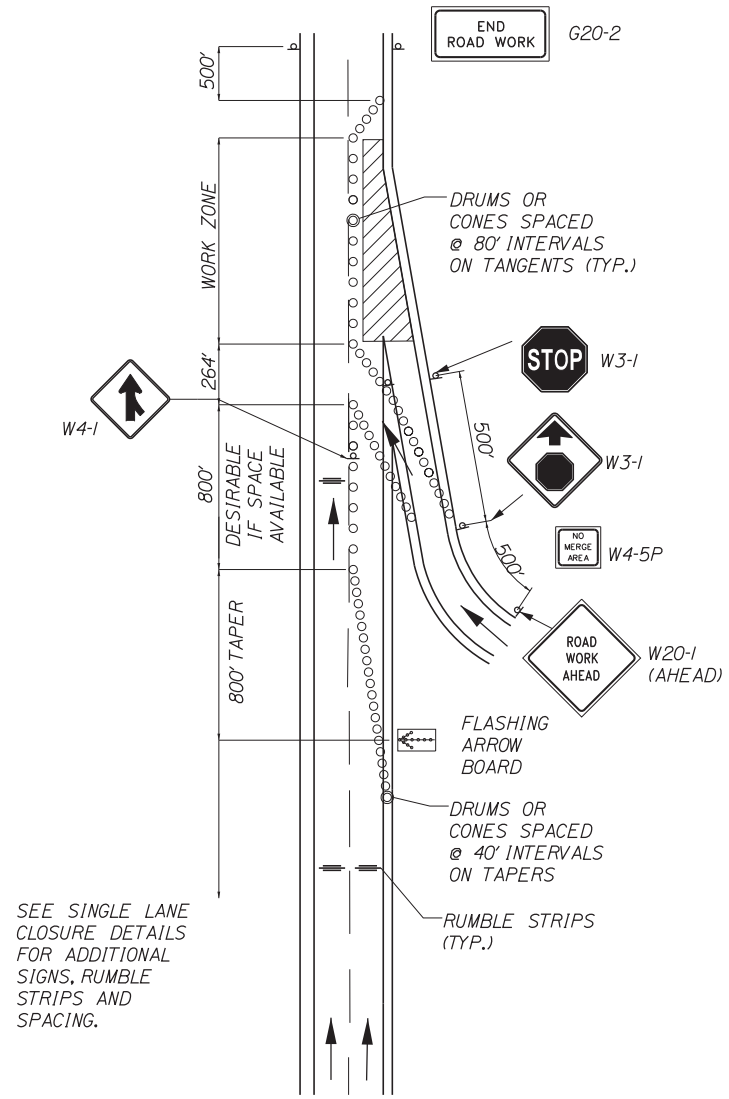
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 MOT DETAILS 1

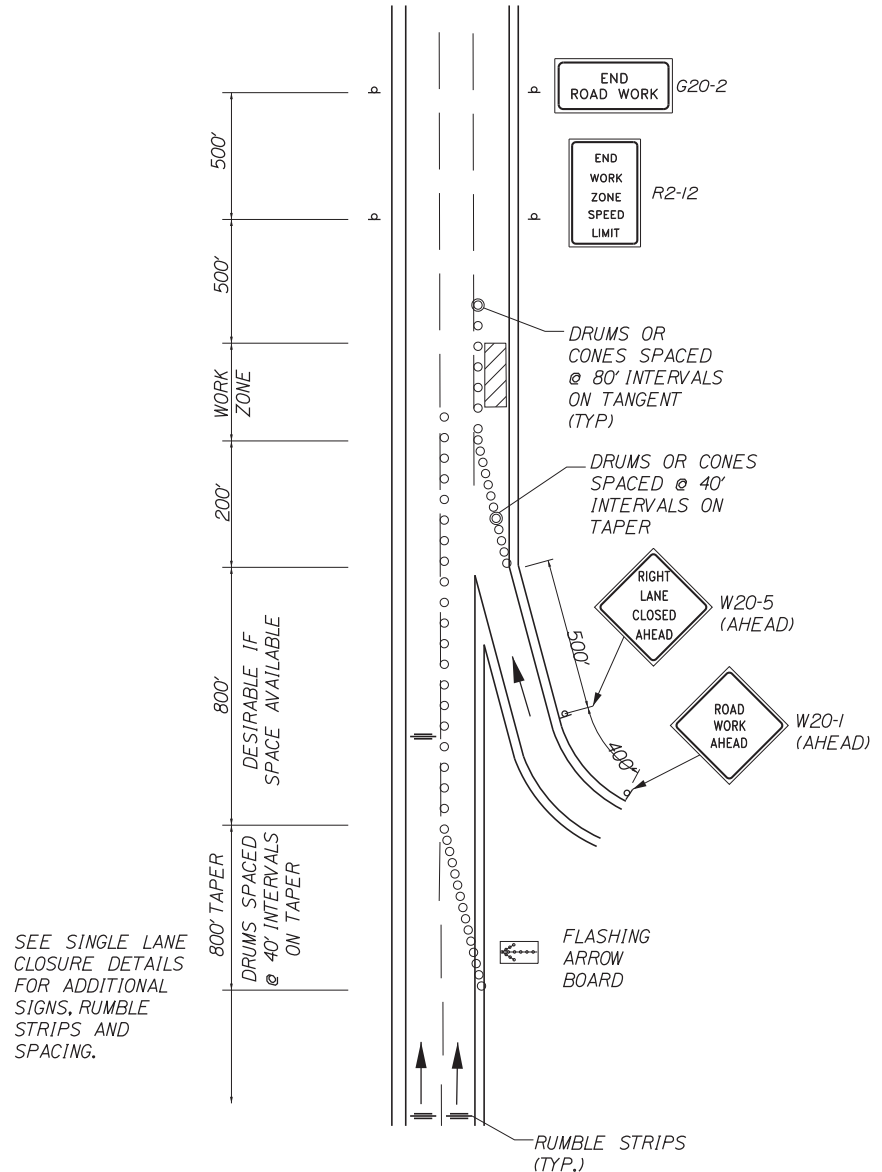
SHEET NUMBER: MOT-7
 CONTRACT: 2018.03
 13 OF 64

Filename: ...MSTA012_Detail_MOT_01.dgn

Date: 1/22/2018



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP



TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP

TEMPORARY LANE CLOSURES OF SHORT DURATION AT RAMPS (MAINLINE)

NOT TO SCALE

Filename: ...MSTA\013_Detail_MOT_02.dgn

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 MOT DETAILS 2

SHEET NUMBER: MOT-8
 CONTRACT: 2018.03
 14 OF 64

Date: 1/22/2018

Filename: ...:\00\HIGHWAY\MSTAD\014_MOT_SS.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
G20-2	48"	24"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	8.00	16.00
G20-5aP	36"	24"		ORANGE	BLACK				4	6.00	24.00
R1-1	36"	36"		RED	WHITE				1	9.00	9.00
R1-2	60"	60"	60"		RED	WHITE			1	12.50	12.50
R2-1 (60)	36"	48"		ORANGE	BLACK				4	12.00	48.00
R2-6aP	36"	24"		ORANGE	BLACK				4	6.00	24.00
R2-12	36"	54"		ORANGE	BLACK				2	13.5	27.00
W1-4L	48"	48"		ORANGE	BLACK				2	16.00	32.00
W1-4R	48"	48"		ORANGE	BLACK				2	16.00	32.00
W1-4BL	48"	48"		ORANGE	BLACK				2	16.00	32.00

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W1-4BR	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	16.00	32.00
W1-4CR	48"	48"		ORANGE	BLACK				2	16.00	32.00
W3-1	48"	48"		ORANGE	BLACK				1	16.00	16.00
W3-2	48"	48"		ORANGE	BLACK				1	16.00	16.00
W3-4	48"	48"		ORANGE	BLACK				2	16.00	32.00
W3-5 (60)	48"	48"		ORANGE	BLACK				2	16.00	32.00
W4-1	48"	48"		ORANGE	BLACK				1	16.00	16.00
W4-2L	48"	48"		ORANGE	BLACK				2	16.00	32.00
W4-2R	48"	48"		ORANGE	BLACK				2	16.00	32.00
W4-3	48"	48"		ORANGE	BLACK				1	16.00	16.00

Scale: N.T.S.

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
By	Date	By	Date
Designed	TFD 1\22\18	Checked	LEM 1\22\18
Drawn	PLP 1\22\18	In Charge of	GAE 1\22\18

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
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THE GOLD STAR MEMORIAL HIGHWAY









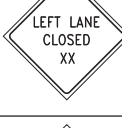

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE







EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
MOT SIGN SUMMARY-1

SHEET NUMBER: MOT-9
CONTRACT: 2018.03
15 OF 64

Date: 1/22/2018

Filename: ...00\HIGHWAY\MSTAD14_MOT_SS.dgn


MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W4-5P	24"	30"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	5.00	5.00
W7-3aP (1/2 MILE)	36"	30"		ORANGE	BLACK				2	7.50	15.00
W8-1	48"	48"		ORANGE	BLACK				1	16.00	16.00
W8-9	48"	48"		ORANGE	BLACK				1	16.00	16.00
W8-24a	48"	48"		ORANGE	BLACK				2	16.00	32.00
W9-2L	48"	48"		ORANGE	BLACK				2	16.00	32.00
W9-2R	48"	48"		ORANGE	BLACK				2	16.00	32.00
W20-1 (AHEAD) (1 MILE)	48"	48"		ORANGE	BLACK				2 2	16.00	64.00
W20-5L (1/2 MILE)	48"	48"		ORANGE	BLACK				2	16.00	32.00
W20-5R (1/2 MILE)	48"	48"		ORANGE	BLACK	▼	▼	▼	2	16.00	32.00

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W21-5	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	16.00	16.00
W21-5aR	48"	48"		ORANGE	BLACK				1	16.00	16.00
W21-5bR (1000)	48"	48"		ORANGE	BLACK				1	16.00	16.00
W24-1aL	48"	48"		ORANGE	BLACK	▼	▼	▼	2	16.00	32.00
CS-3	48"	48"		ORANGE	BLACK	6" C 6" C 6" C	4.5" 4.5"	-	2	16.00	32.00
CS-5	48"	48"		ORANGE	BLACK	6" C 6" C	4.5"	-	1	16.00	16.00

Scale: N.T.S.

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

By	Date	By	Date
Designed	TFD 1\22\18	Checked	LEM 1\22\18
Drawn	PLP 1\22\18	In Charge of	GAE 1\22\18

STANTEC CONSULTING SERVICES INC.
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**THE GOLD STAR
MEMORIAL HIGHWAY**

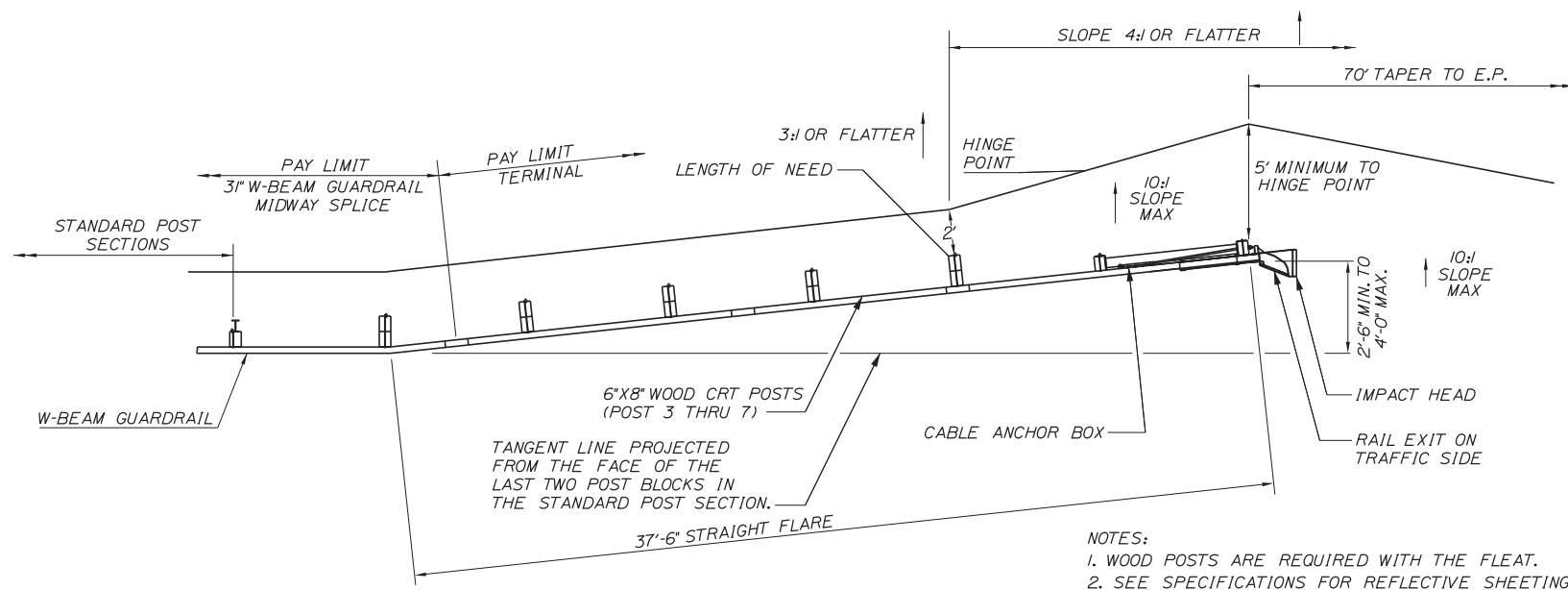
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 MOT SIGN SUMMARY-2

SHEET NUMBER: MOT-10
 CONTRACT: 2018.03
 16 OF 64

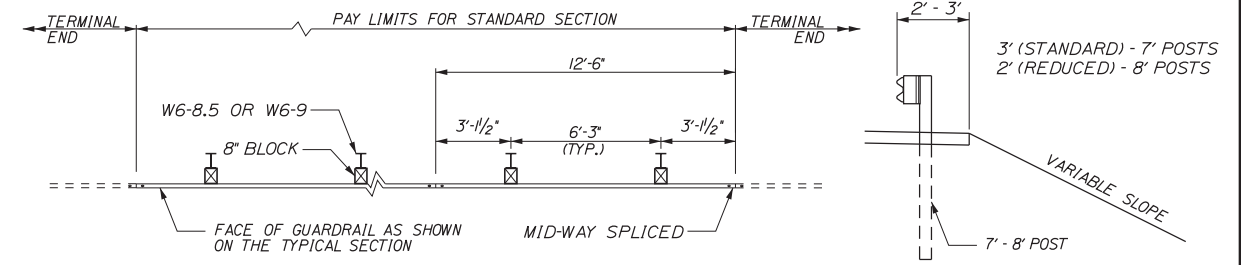
Date: 1/22/2018

Filename: ... \HIGHWAY\MSTA\015_GRDetail.dgn



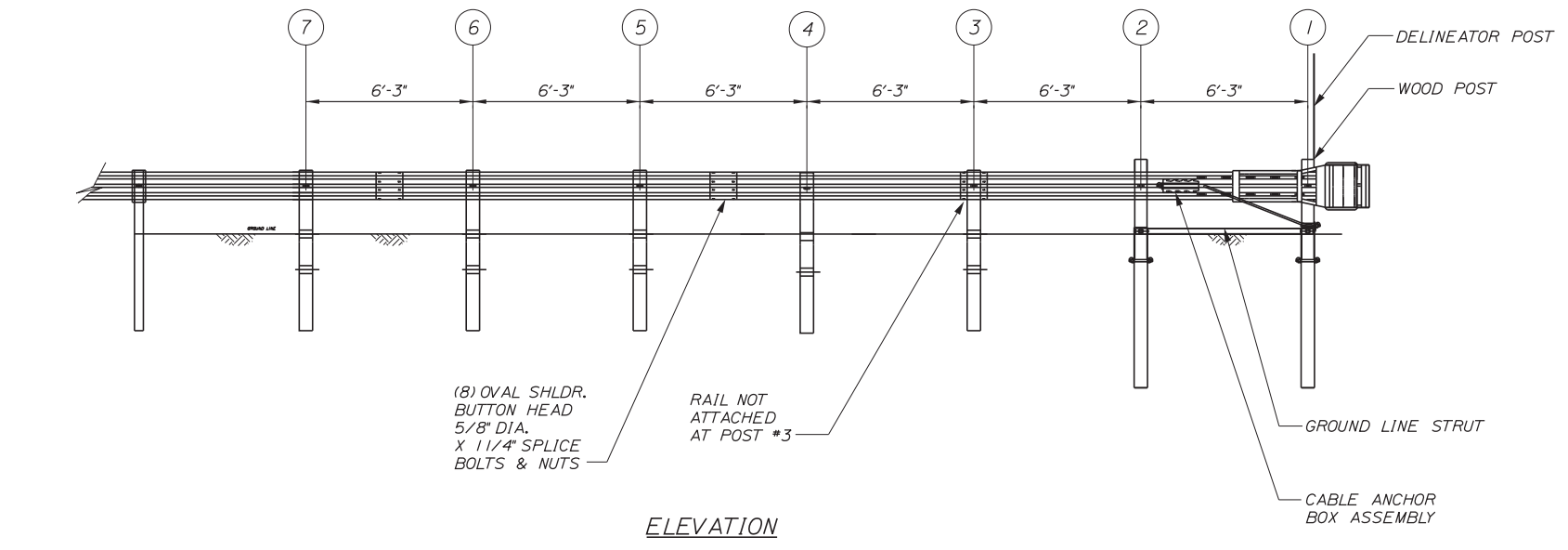
PLAN

NOTES:
 1. WOOD POSTS ARE REQUIRED WITH THE FLEAT.
 2. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.

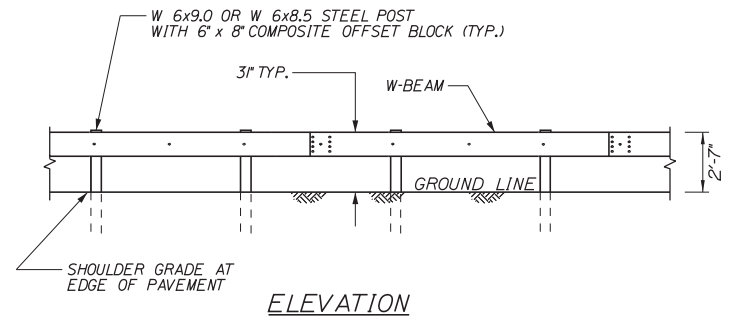


PLAN - SINGLE FACED

CROSS-SECTION



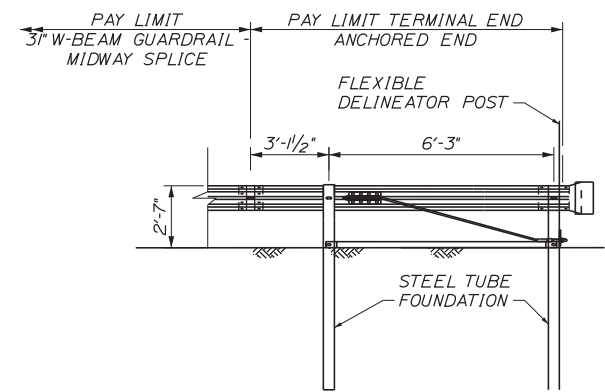
ELEVATION



ELEVATION

31" W-BEAM GUARDRAIL - MID-WAY SPLICE (8" OFFSET BLOCKS)
 (ITEMS 606.13, 606.131, 606.132)
 NOT TO SCALE

GUARDRAIL 350 FLARED TERMINAL - 31" W-BEAM GUARDRAIL
 NOT TO SCALE



TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL
 (ITEM 606.135I)
 NOT TO SCALE

NOTES:
 1. THIS DETAIL MODIFIES THE SEW31 DRAWING SUCH THAT W-BEAM DOES NOT EXTEND BEYOND THE LAST GUARDRAIL POST. THE RWM40 W-BEAM PANEL SHALL HAVE A LENGTH OF 9'-4 1/2" MEASURED FROM THE CENTER OF THE MIDWAY SPLICE TO THE CENTER OF THE LAST GUARDRAIL POST.

GENERAL GUARDRAIL INSTALLATION NOTE:

- THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF ALL GUARDRAIL COMPONENTS TO BE INSTALLED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS OR IRREGULARITIES BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS PRIOR TO THE REMOVAL OF ANY MOT FEATURES.
- GUARDRAIL HEIGHT SHALL BE 31" ± 1/2". GUARDRAIL HEIGHT SHALL BE MEASURED FROM AT GROUND ELEVATION ADJACENT TO EACH POST.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARD PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING THE GUARDRAIL INSTALLATION.

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
	By	Date	
Designed	TFD	1\22\18	Checked LEM 1\22\18
Drawn	PLP	1\22\18	In Charge of GAE 1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

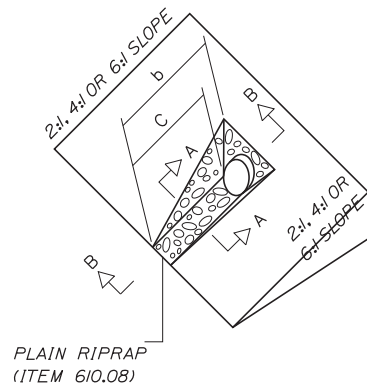
EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS

GUARDRAIL DETAILS

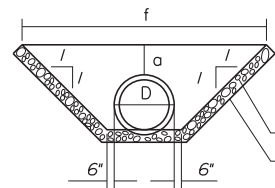
SHEET NUMBER: DET-1
 CONTRACT: 2018.03
 17 OF 64

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

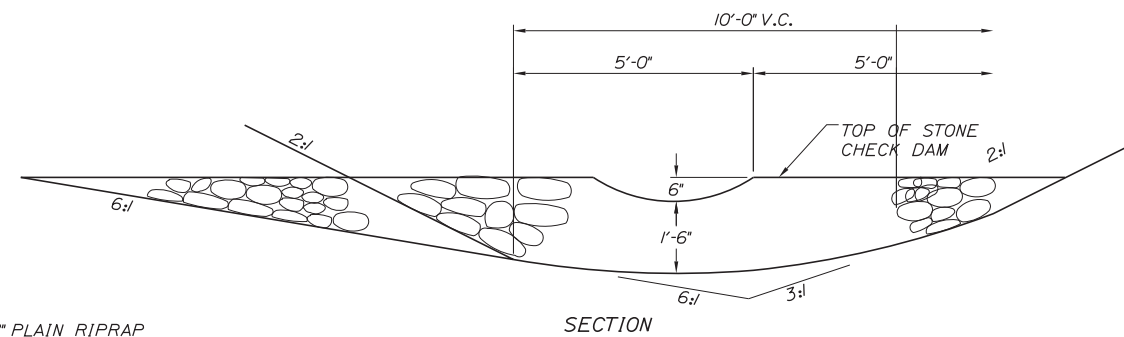


PLAIN RIPRAP (ITEM 610.08)



SECTION A-A

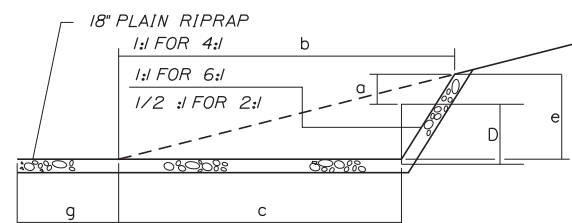
18" PLAIN RIPRAP
EROSION CONTROL
GEOTEXTILE FABRIC



SECTION

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

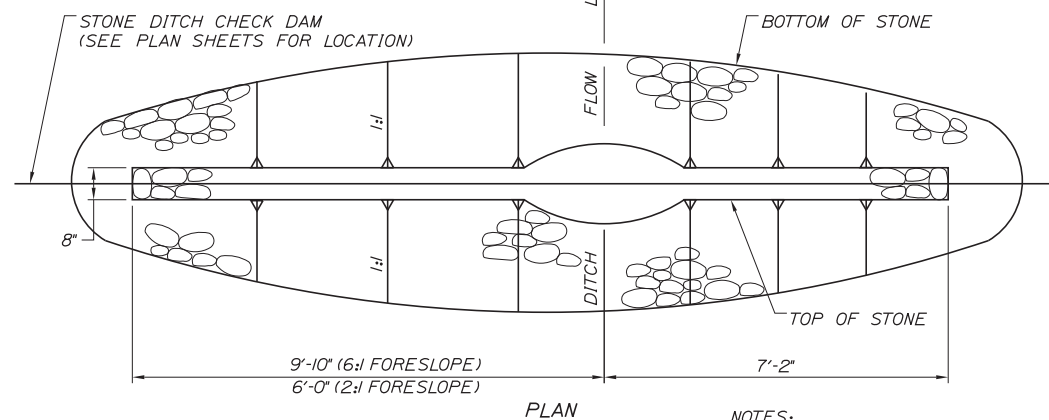


SECTION B-B

ROADWAY CULVERT END
SLOPE TREATMENT

NOT TO SCALE

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



PLAN

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

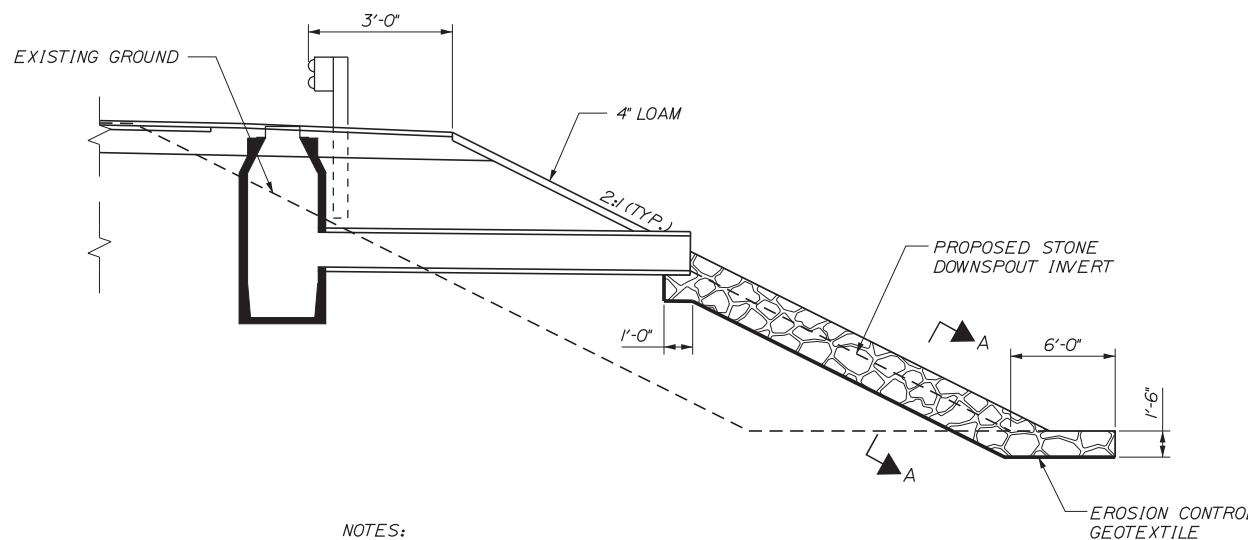
NOTES:

1. STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDT SPECIFICATION 703.29, STONE DITCH PROTECTION.
2. TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.181.

STONE CHECK DAM
NOT TO SCALE

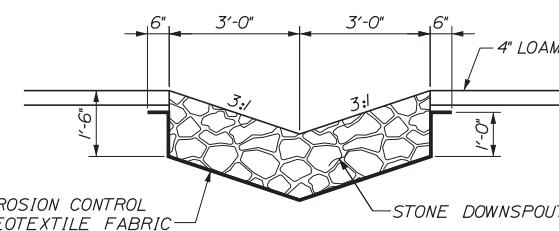
DIMENSIONS FOR SLOPE OF 6:1

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



- NOTES:
1. ALL SIDESLOPES AT CATCH BASIN OUTLETS ON OUTSIDE EDGE OF SHOULDER SHALL HAVE STONE DOWNSPOUTS.

CATCH BASIN OUTLET ON OUTSIDE EDGE OF SHOULDER
NOT TO SCALE



SECTION A-A
NOT TO SCALE

1 LF OF DOWNSPOUT = .33 CY OF STONE DITCH PROTECTION
1 LF OF DOWNSPOUT = 1.04 SY OF EROSION CONTROL GEOTEXTILE FABRIC

Date: 1/22/2018

Filename: ... \HIGHWAY\MSTA\017_EroDetail.dgn

No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
Designed	TFD	1\22\18	Checked
Drawn	PLP	1\22\18	In Charge of
			By
			Date
			By
			Date

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**THE GOLD STAR
MEMORIAL HIGHWAY**

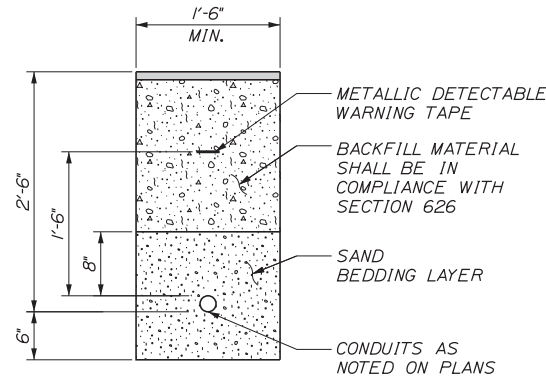
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
EROSION CONTROL AND DRAINAGE DETAILS

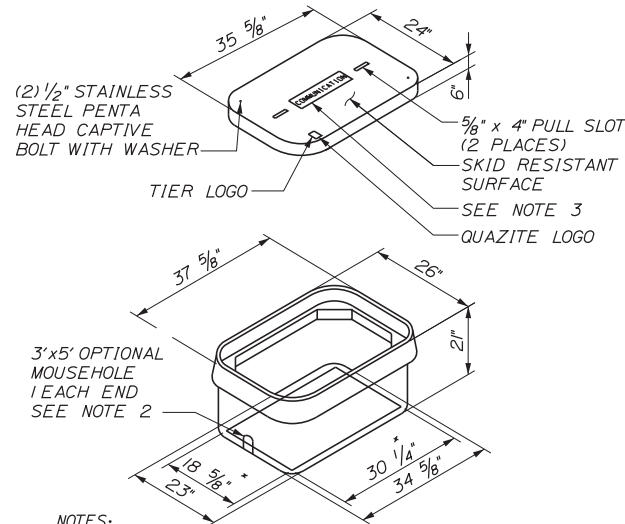
SHEET NUMBER: DET-3
CONTRACT: 2018.03
18 OF 64

Date: 1/22/2018

Filename: ...MSTA018_LIGHTDET_01.dgn

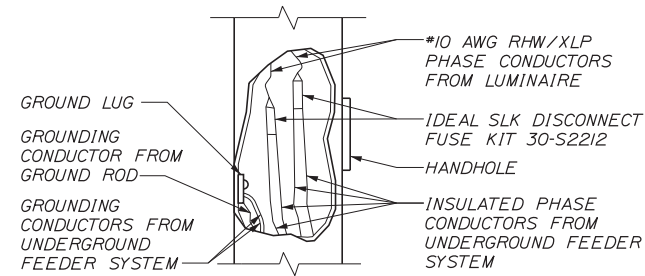


TRENCH CROSS SECTION
NOT TO SCALE



NOTES:
 1. SPLICES IN BOX SHALL BE MADE WITH ILSCP USPA-350-SS-DB SAFTEYSUB WATER TIGHT DIRECT BURY SPLICE WIRE RANGE 350MCM-10-STR. ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.
 2. PROVIDE 12\"/>

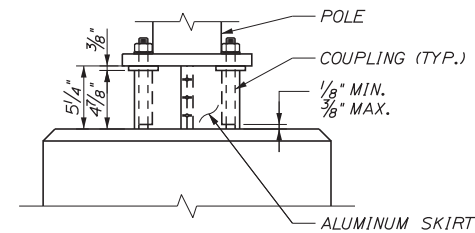
QUAZITE BOX DETAIL
NOT TO SCALE



TYPICAL WIRING DETAIL
NOT TO SCALE

• SEE ELECTRICAL PLANS FOR WIRE SIZES

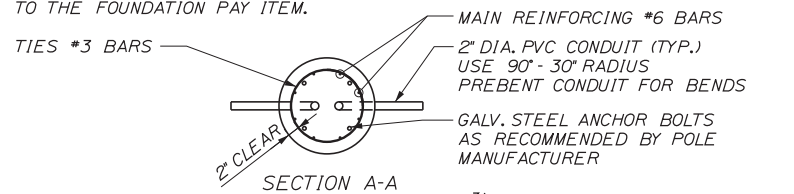
NOTE: CONTRACTOR SHALL PROVIDE 18\"/>



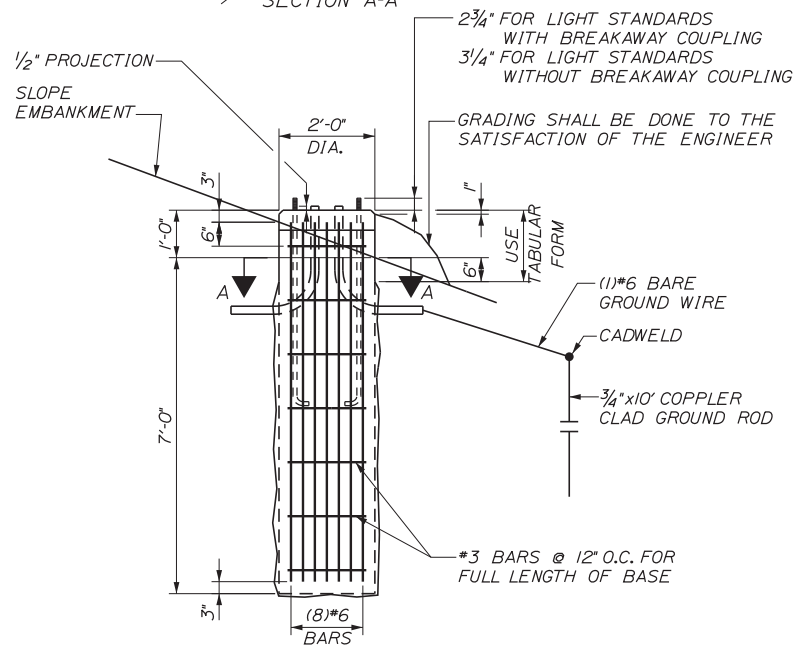
• BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW LIGHT STANDARDS EXCEPT POLES MOUNTED ON BARRIER

BREAKAWAY COUPLINGS AND SKIRT DETAIL
NOT TO SCALE

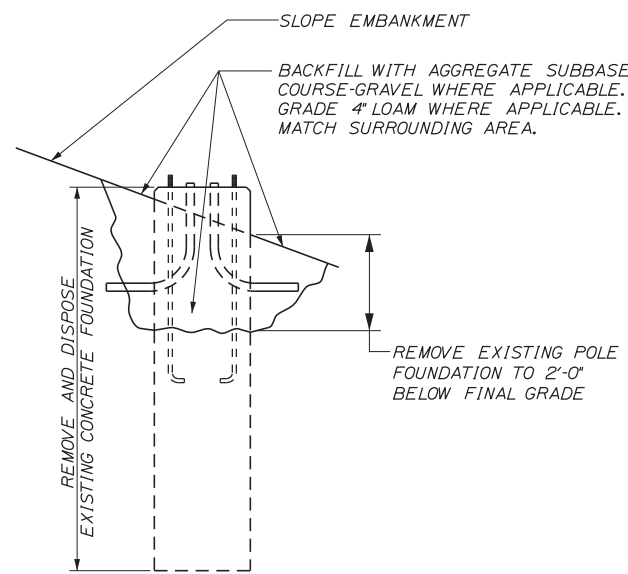
NOTE:
 WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINDOT STANDARD DETAIL 606(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.



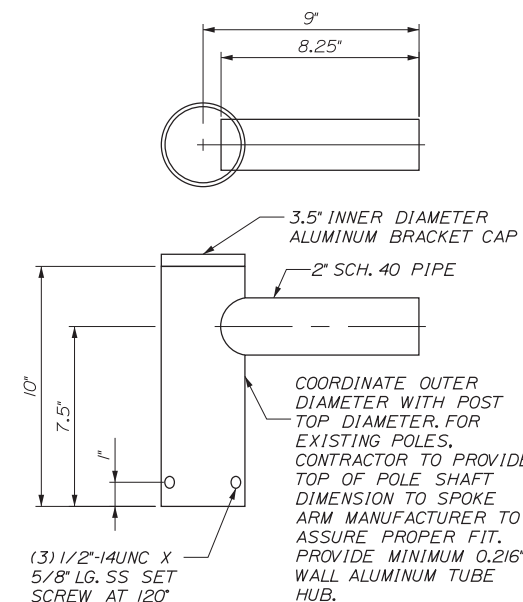
SECTION A-A



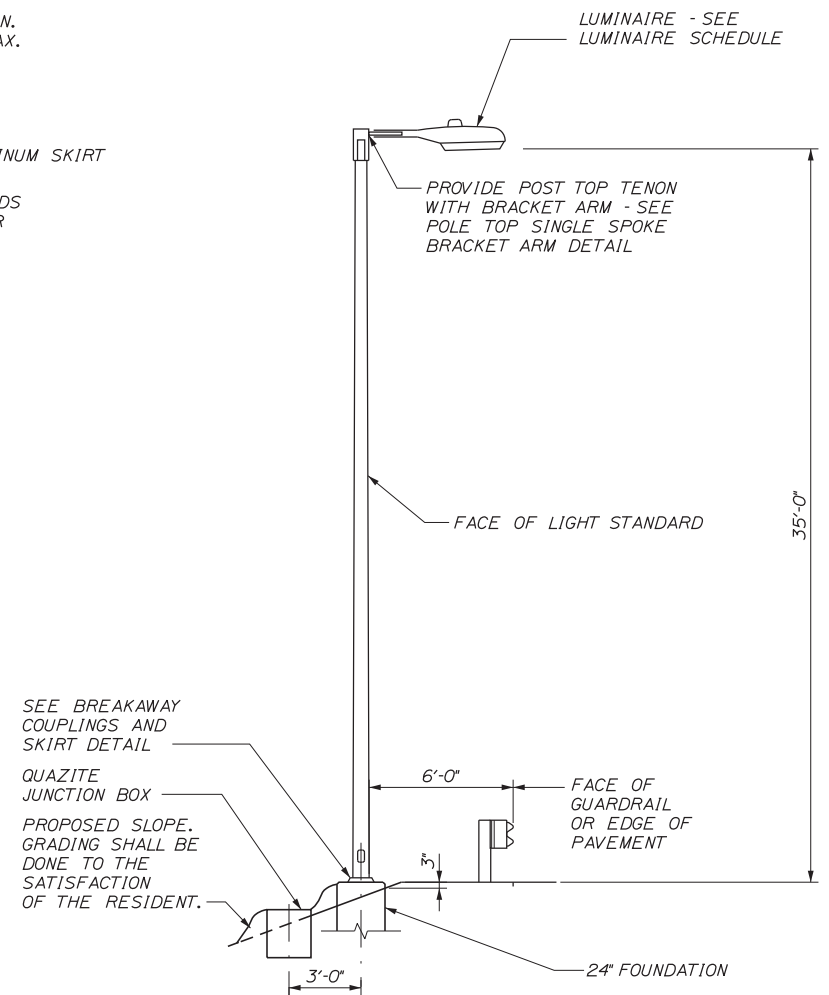
24 INCH FOUNDATION
NOT TO SCALE



REMOVAL OF CONCRETE FOUNDATION
NOT TO SCALE



POLE TOP SINGLE SPOKE BRACKET ARM
NOT TO SCALE



PLACEMENT OF LIGHT STANDARD
NOT TO SCALE

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
	By	Date	
Designed	TFD	1\22\18	Checked LEM 1\22\18
Drawn	PLP	1\22\18	In Charge of GAE 1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 LIGHTING AND COMMUNICATION DETAILS 1

SHEET NUMBER: DET-4
 CONTRACT: 2018.03
 19 OF 64

CALCULATION SUMMARY							
PROJECT: ROADWAY LIGHTING CALCULATIONS							
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
RAMP CONFLICT AREA	ILLUMINANCE	Fc	0.65	1.7	0.24	2.71	7.21

ROADWAY LUMINAIRE SCHEDULE					
LABEL	CATALOG NUMBER	DESCRIPTION	MINIMUM LUMENS	LIGHT LOSS FACTOR	MAXIMUM WATTS
A	SEE SPECIFICATIONS FOR CATALOG NUMBER.	LED COBRAHEAD, 4000K CCT, IES TYPE 3 DISTRIBUTION	17000	0.67	133

GENERAL NOTES: LIGHTING

- THERE SHALL BE AN INDIVIDUAL PHOTOCCELL FOR EACH LUMINAIRE.
- LIGHTING FIXTURES SHALL BE IES FULL CUTOFF, LIGHT EMITTING DIODE (LED) FIXTURES, IES DISTRIBUTION TYPE 2, 3 OR 4, AS NOTED IN THE LUMINAIRE SCHEDULE.
- ALL FIXTURES SHALL BE GASKETED AND HAVE SURGE PROTECTION AND A DOUBLE FUSE KIT. ALL FIXTURES SHALL BE GRAY. IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF OR CUTOFF, TYPE 3 IES DISTRIBUTION TYPE AS NOTED IN THE LUMINAIRE SCHEDULE. LED LUMINAIRES, B.U.G. RATINGS SHALL BE EQUAL TO OR BETTER THAN THE DESIGNED FIXTURES. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL REASONABLY EQUAL THE LIGHT LEVELS AND DISTRIBUTIONS SHOWN ON THE PLANS, IN THE OPINION OF MTA.
- EVALUATION OF ALTERNATIVE LED LUMINAIRES THAT MAY BE PROPOSED BY THE CONTRACTOR FOR SUBSTITUTION WILL REQUIRE SUBMITTAL OF THE FOLLOWING, AT MINIMUM: IES LM-79-08 ABSOLUTE TESTING REPORT FOR THE PROPOSED ALTERNATIVE LUMINAIRE; IES LM-80-15 TESTING REPORT FOR LED CHIPS TO BE USED IN THE ALTERNATIVE LUMINAIRE, DOCUMENTING TESTING FOR A MINIMUM OF 8500 HOURS; IES TM-21-II REPORT FOR PROJECTED LONG TERM LUMEN MAINTENANCE, INCLUDING INCREMENTAL LUMEN DEPRECIATION TABLE AT 25 DEGREES CELSIUS TO A MINIMUM OF 50,000 HOURS; IES PHOTOMETRIC FILE FROM THE MANUFACTURER FOR THE PROPOSED ALTERNATIVE LUMINAIRE; PHOTOMETRIC PLOT, OVERLAID ON THE LAYOUT OF PROJECT, SHOWING LIGHT CONTOURS, ILLUMINATION STATISTICS FOR EACH OF THE LIGHTING GROUPS, AND VALUE OF LIGHT LOSS FACTOR USED IN THE ANALYSIS; VALUES OF LLD, LDD, BALLAST FACTOR AND OTHER FACTORS USED FOR CALCULATION OF THE ASSUMED LIGHT LOSS FACTOR; SPECIFICATION DATA REGARDING OPTICS, CHROMATIC COLOR TEMPERATURE, DRIVER, SURGE PROTECTION, HOUSING AND GASKETING.
- CONDUIT SHALL BE 2" MINIMUM, PVC SCHEDULE 40. CONDUIT UNDER PAVEMENT SHALL BE SCHEDULE 80, UNLESS INSTALLED IN RIGID UNDER PAVEMENT DUCT SLEEVE. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36".
- A JUNCTION BOX SHALL BE INSTALLED AT EACH POLE. THE WIRING IN CONDUITS SHALL BE CONTINUOUS BETWEEN JUNCTION BOXES.
- UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO MTA A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.
- ALL LIGHT BASES SHALL HAVE A GROUND ROD LOCATED ADJACENT TO THE POLE THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN LIGHT POLE ITEM.
- LIGHTING SERVICE PANEL SHALL BE MARKED WITH ARC FLASH HAZARD TYPE 1, 2, 3 OR 4 AND THE APPROPRIATE PPE REQUIRED.
- BREAKAWAY DEVICES FOR LIGHT POLES SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS THE POLE. A FRANGIBLE COUPLING SUCH AS TRANSPO POLE-SAFE 5000 SERIES (WITH A FEMALE ANCHOR), THE MANITOBA SAFETY BASE WITH REACTION PLATE, OR APPROVED EQUAL SHALL BE USED. BREAKAWAY DEVICES SHALL BE INSTALLED ON ALL POLES EXCEPT THOSE LOCATED ON BARRIERS.
- WIRE SHALL BE STRANDED COPPER XHHW-2, SIZE AS NOTED IN THE CONDUIT SUMMARIES.
- FOUNDATIONS SHALL BE PRECAST 24 INCH DIAMETER BY 7' HEIGHT FOUNDATIONS.
- LIGHT POLES THAT ARE REMOVED SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE MTA SIGN SHOP AT MM 58.3 NB. WHEN REMOVING LIGHT POLES, REMOVE ALL EXISTING CONDUCTORS ASSOCIATED WITH THE LIGHT POLE. WHEN REMOVING HANDHOLES, REMOVE ALL CONDUCTORS IN CONDUITS ENTERING THE HANDHOLE BACK TO NEAREST HANDHOLE OR LIGHTING UNIT TO REMAIN AND ABANDON THE EMPTY CONDUIT IN PLACE. PRIOR TO CONDUCTOR REMOVAL, CONTRACTOR SHALL TEST THAT CIRCUITS THAT SERVICE EXISTING LOADS ARE NOT AFFECTED BY REMOVAL.
- EXISTING INTERCHANGE LIGHTING IS INTENDED TO REMAIN OPERATIONAL UNTIL NEW LIGHTING IS ACTIVATED. IF NECESSARY TO REMOVE OR DEACTIVATE ANY LUMINAIRE BEFORE NEW LIGHTING IS ACTIVATED, WHEN APPROVED BY THE RESIDENT, TEMPORARY LIGHTING SHALL BE USED TO MAINTAIN ILLUMINATION AND WILL BE PAID UNDER ITEM NO. 652.39 PORTABLE LIGHT TOWER.
- AT EACH POLE, CONTRACTOR SHALL PROVIDE 18" OF EXTRA WIRE SLACK, TO REMOVE THE FUSE HOLDERS FROM THE HANDHOLE TO REPLACE FUSES.
- PROVIDE LABELS ON ALL POLES INCLUDING RELOCATED LIGHT POLES.
- EXISTING LIGHTING CONDUIT MAY CONTAIN ASBESTOS MATERIALS. REMOVAL OF THIS SHALL BE INCIDENTAL TO ITEM NO. 634.051. REMOVAL SHALL BE IN COMPLIANCE WITH ALL RELATED ENVIRONMENTAL REGULATIONS.
- ALL REMOVED AND RESET LIGHT STANDARDS SHALL HAVE BREAKAWAY BASES.

CONDUIT SUMMARY					
SOUTHBOUND LIGHTING CURCUIT A			WIRE SIZE: 3*2, 1*2-GND STRANDED COPPER XHHW-2, 120V 3-WIRE		
STATION	POLE	BREAKAWAY	DISTANCE	REMARKS	
LOAD CENTER 'GORHAM RD', EXISTING CIRCUIT 1A AND 1B (STA 174+20 RT 295 SB)	N/A	N/A	90	REMOVE AND DISPOSE EXISTING 3*2 CONDUCTORS BETWEEN LOAD CENTER AND EX LP 142, INSTALL 3*2, 1*2-GND IN EXISTING CONDUIT.	
STA 173+83 RT SB ON RAMP	142	EXISTING	60	REMOVE AND DISPOSE EXISTING 3*2 CONDUCTORS BETWEEN EX LP 142 AND EXISTING HANDHOLE, INSTALL 3*2, 1*2-GND IN EXISTING CONDUIT.	
STA 173+84 LT SB ON RAMP - EXISTING HANDHOLE	EX HH	N/A	250	REMOVE AND DISPOSE EXISTING 3*2 CONDUCTORS BETWEEN EXISTING HANDHOLE AND EX LP 141, INSTALL 3*2, 1*2-GND IN EXISTING CONDUIT.	
STA 171+33 LT SB ON RAMP	141	EXISTING	250	REMOVE AND DISPOSE EXISTING 3*2 CONDUCTORS BETWEEN EX LP 141 AND EX LP 140, INSTALL 3*2, 1*2-GND IN EXISTING CONDUIT.	
STA 168+83 LT SB ON RAMP	140	EXISTING	200	REPLACE CONDUCTORS 3*2, 1*2-GND IN INTERCEPTED CONDUIT	
STA 166+83 LT SB ON RAMP - RELOCATED EX LP 139	139	RELOC. EXIST	200	NEW CONDUIT AND CONDUCTORS TYP UNLESS NOTED	
STA 164+83 LT SB ON RAMP	138	YES	200		
STA 162+83 LT SB ON RAMP - RELOCATED EX LP 137	137	RELOC EXIST	200		
STA 160+83 LT SB ON RAMP - RELOCATED EX LP 136	136	RELOC EXIST	200		
STA 158+83 LT SB ON RAMP - RELOCATED EX LP 135	135	RELOC EXIST	200		
STA 156+83 LT SB ON RAMP	134	YES	200		
STA 2154+80 LT MAINE TURNPIKE ☺	133	YES	220		
STA 2152+60 LT MAINE TURNPIKE ☺	132	YES	196		
STA 2150+64 LT MAINE TURNPIKE ☺	131	YES	211		
STA 2148+53 LT MAINE TURNPIKE ☺	130	YES	211		
STA 2146+42 LT MAINE TURNPIKE ☺	129	YES	211		
STA 2144+31 LT MAINE TURNPIKE ☺	128	YES	211		
STA 2142+20 LT MAINE TURNPIKE ☺	127	YES	212		
STA 2140+08 LT MAINE TURNPIKE ☺	126	YES			

Date: 1/23/2018

Filename: ...MSTA\019_LIGHTDET_02.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE			
	By	Date	
Designed	TFD	1\22\18	Checked LEM 1\22\18
Drawn	PLP	1\22\18	In Charge of GAE 1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

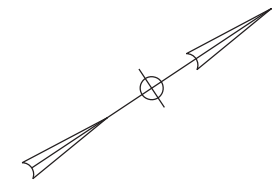
EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
LIGHTING AND COMMUNICATION DETAILS 2

SHEET NUMBER: DET-5
CONTRACT: 2018.03
20 OF 64

Date: 1/22/2018

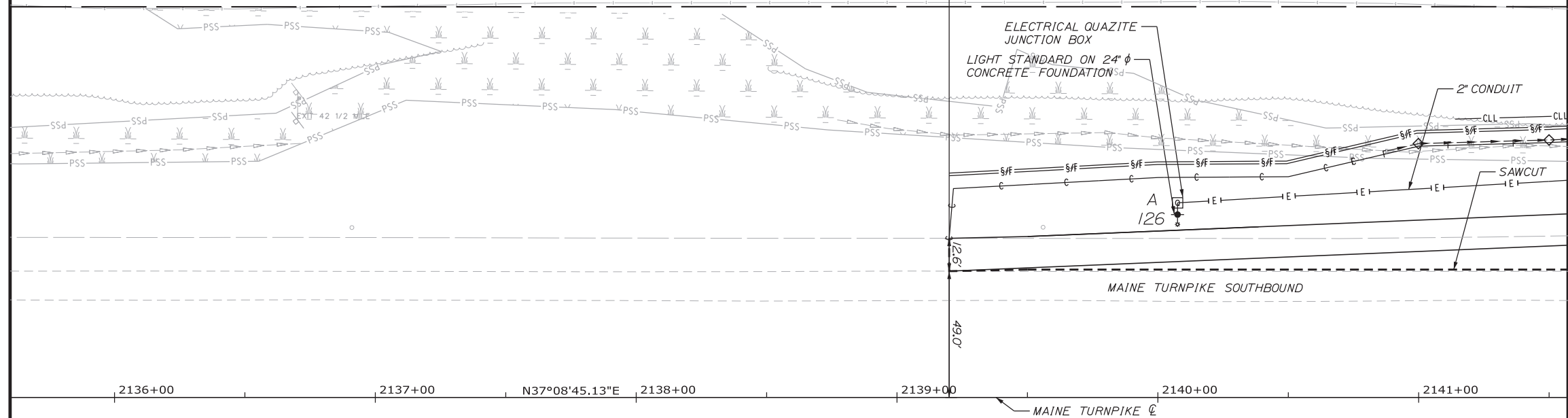
PLAN LEGEND

- R/W LINES EXISTING
- EXISTING CULVERT
- PROPOSED CULVERT
- EXISTING GUARDRAIL (BEAM)
- PROPOSED GUARDRAIL (BEAM)
- EXISTING WATERWAY
- TREE LINE
- CLEARING LIMIT LINE
- SILT FENCE
- EXISTING RIPRAP
- PROPOSED RIPRAP
- PROPOSED TEMP. STONE CHECK DAM
- EXISTING PAVEMENT EDGE
- PROPOSED PAVEMENT EDGE
- EXISTING TRAVELWAY
- PROPOSED TRAVELWAY
- CATCH BASINS EXISTING PROPOSED
- PROPOSED DITCH
- EXISTING DITCH
- LIGHT POLES EXISTING PROPOSED
- UTILITY POLES EXISTING PROPOSED
- EXISTING ELECTRICAL LINE
- PROPOSED ELECTRICAL LINE
- BORING
- SIGNS (SINGLE POST) EXISTING PROPOSED
- SIGNS (DOUBLE POST) EXISTING PROPOSED
- PROPOSED-SLOPE CUT LINE
- PROPOSED-SLOPE FILL LINE

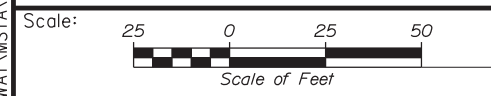
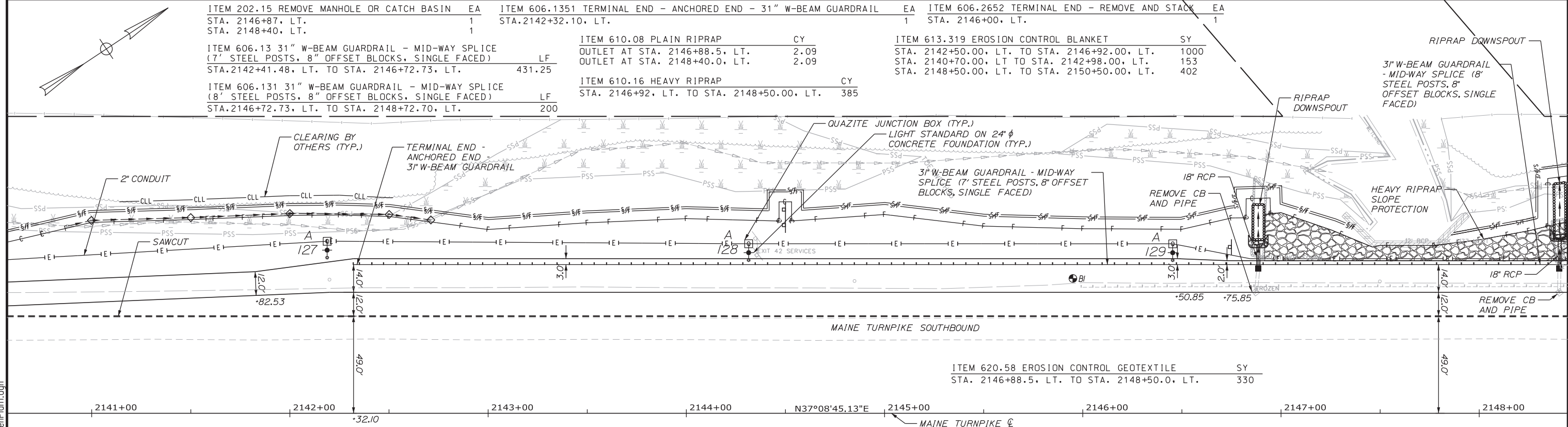


ITEM 656.632 30" TEMPORARY SILT FENCE LF
 STA. 2139+20, LT. TO STA. 2147+37, LT. 859
 STA. 2139+20, LT. TO STA. 2147+37, LT. 859

STA. 2139+20.00
 BEGIN PROJECT 2018.03
 LIMIT OF WORK
 MATCH EXISTING PAVEMENT
 BEGIN FULL DEPTH PAVEMENT REMOVAL
 AND FULL DEPTH RECONSTRUCTION



ITEM 202.15 REMOVE MANHOLE OR CATCH BASIN EA STA. 2146+87, LT. STA. 2148+40, LT. 1	ITEM 606.1351 TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL EA STA. 2142+32.10, LT. 1	ITEM 606.2652 TERMINAL END - REMOVE AND STACK EA STA. 2146+00, LT. 1
ITEM 606.13 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED) LF STA. 2142+41.48, LT. TO STA. 2146+72.73, LT. 431.25	ITEM 610.08 PLAIN RIPRAP CY OUTLET AT STA. 2146+88.5, LT. 2.09 OUTLET AT STA. 2148+40.0, LT. 2.09	ITEM 613.319 EROSION CONTROL BLANKET SY STA. 2142+50.00, LT. TO STA. 2146+92.00, LT. 1000 STA. 2140+70.00, LT. TO STA. 2142+98.00, LT. 153 STA. 2148+50.00, LT. TO STA. 2150+50.00, LT. 402
ITEM 606.131 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (8' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED) LF STA. 2146+72.73, LT. TO STA. 2148+72.70, LT. 200	ITEM 610.16 HEAVY RIPRAP CY STA. 2146+92, LT. TO STA. 2148+50.00, LT. 385	



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

By	Date	By	Date
Designed TFD	1\22\18	Checked LEM	1\22\18
Drawn PLP	1\22\18	In Charge of GAE	1\22\18

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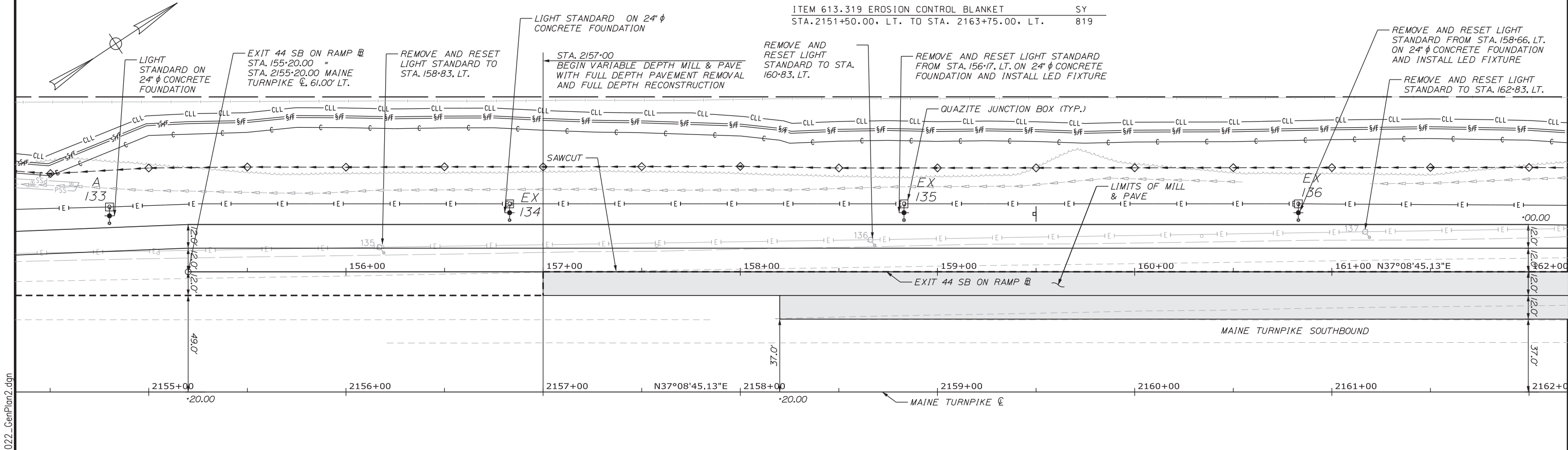
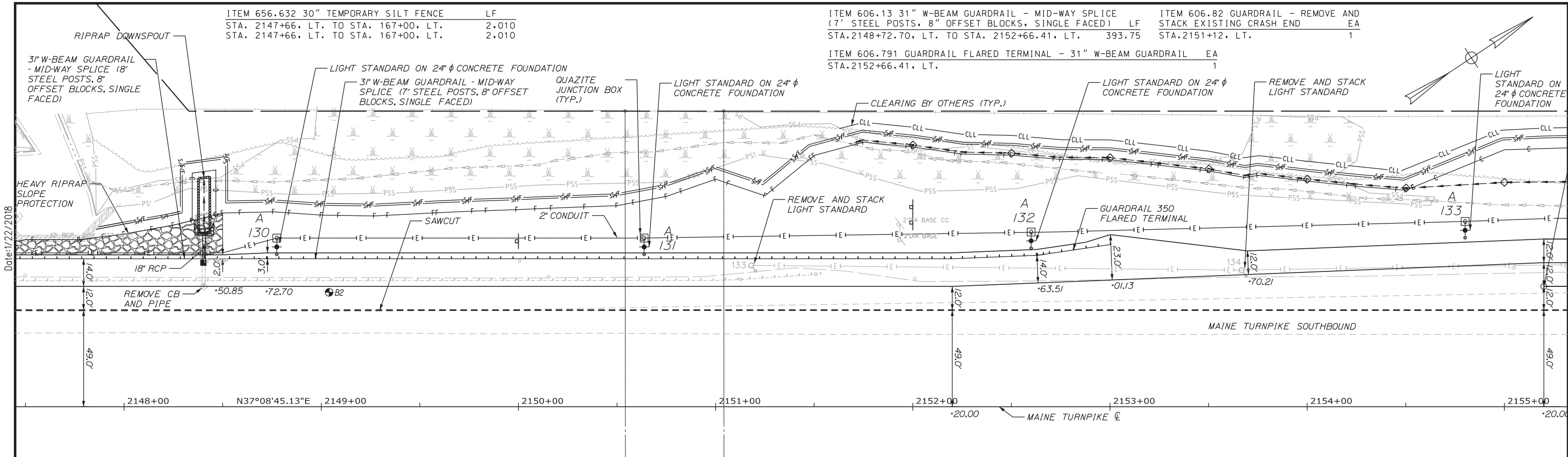
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 GENERAL PLAN 1

SHEET NUMBER: GP-1
 CONTRACT: 2018.03
 21 OF 64

Filename: ... \HIGHWAY\MSTA\021_GenPlan1.dgn



Scale: 1" = 20.00'

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44 SOUTHBOUND ON RAMP IMPROVEMENTS

GENERAL PLAN 2

SHEET NUMBER: GP-2

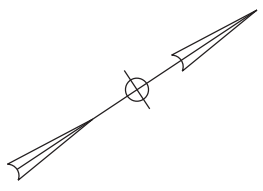
CONTRACT: 2018.03

22 OF 64

Date: 1/22/2018

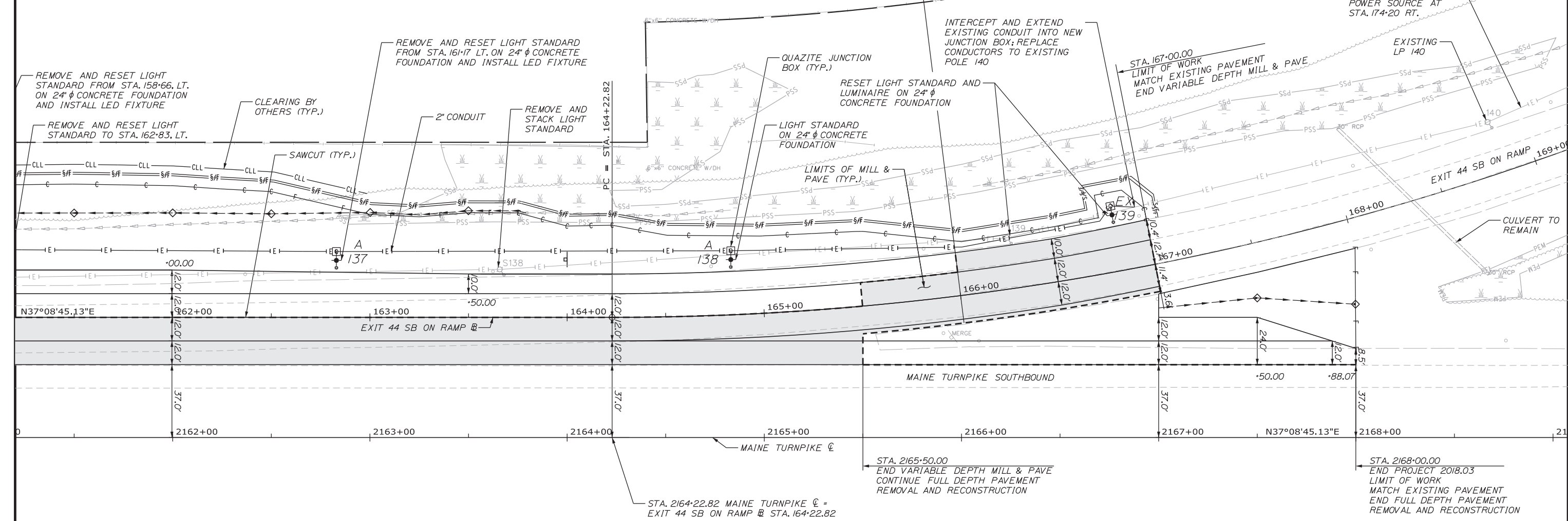
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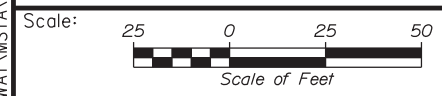


ITEM 613.319 EROSION CONTROL BLANKET SY
 STA. 2167+00.00, LT. TO STA. 2168+00.00, LT. 67

Date: 1/22/2018



Filename: ... \HIGHWAY\MSTA\023_GenPlan3.dgn



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THE GOLD STAR
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EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 GENERAL PLAN 3

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

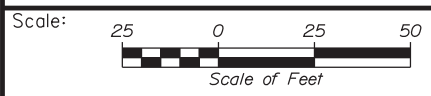
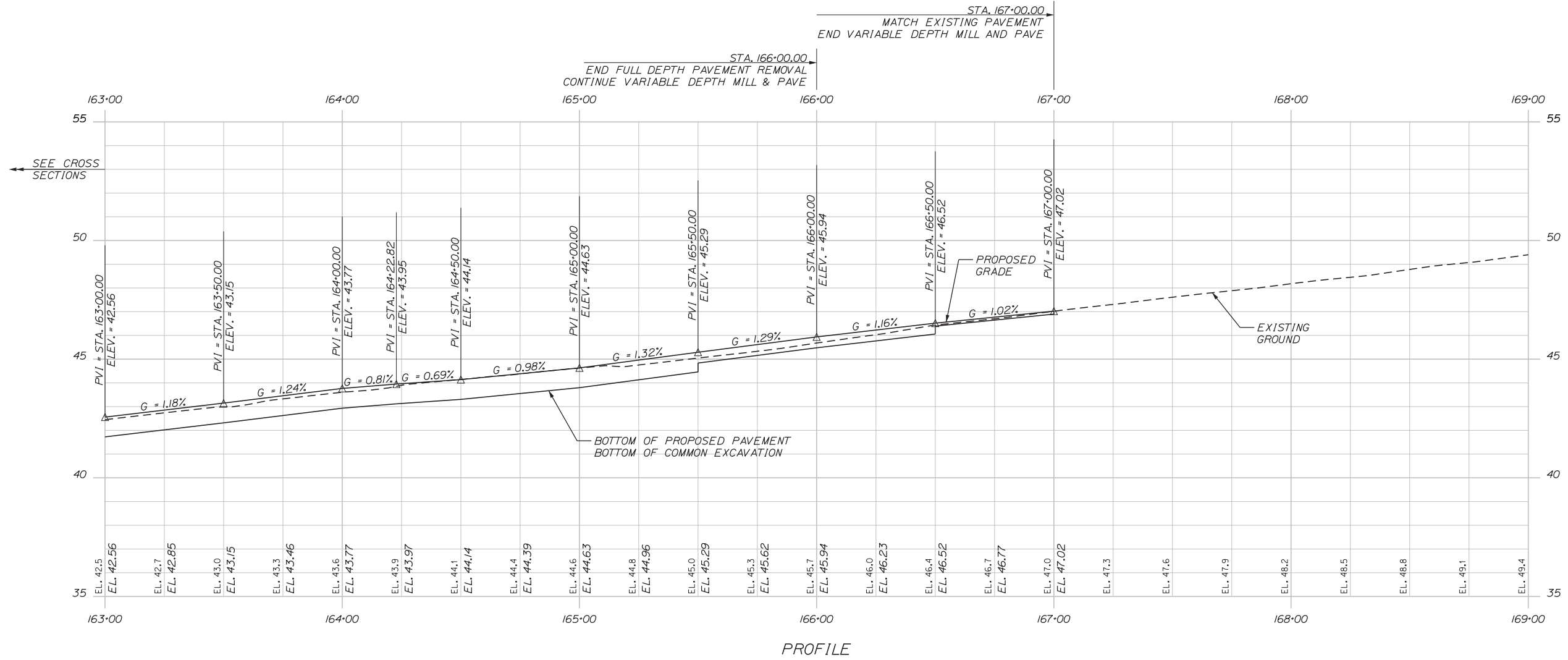
CONTRACT: 2018.03

SHEET NUMBER: GP-3

23 OF 64

Date: 1/22/2018

Filename: ... \HIGHWAY\MSTA\024_Profile.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

By	Date	By	Date
Designed TFD	1\22\18	Checked LEM	1\22\18
Drawn PLP	1\22\18	In Charge of GAE	1\22\18

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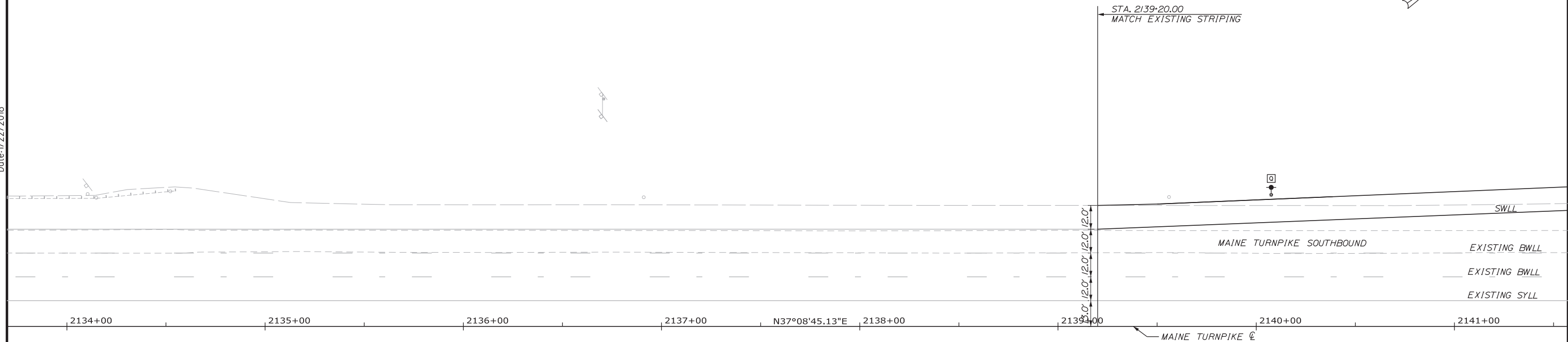
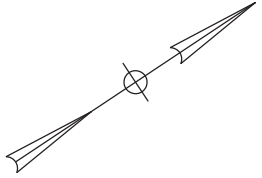
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
RAMP PROFILE

SHEET NUMBER: PRO-1
CONTRACT: 2018.03
24 OF 64

Date: 1/22/2018

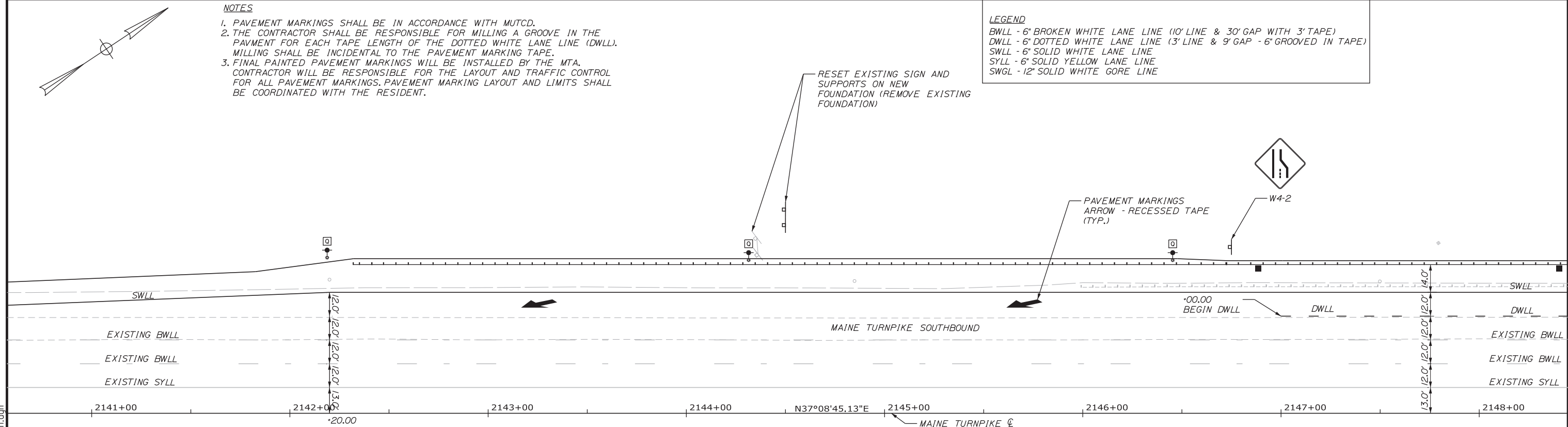


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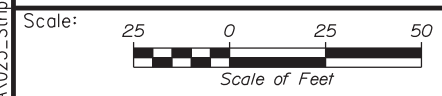
1. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MILLING A GROOVE IN THE PAVEMENT FOR EACH TAPE LENGTH OF THE DOTTED WHITE LANE LINE (DWLL). MILLING SHALL BE INCIDENTAL TO THE PAVEMENT MARKING TAPE.
3. FINAL PAINTED PAVEMENT MARKINGS WILL BE INSTALLED BY THE MTA. CONTRACTOR WILL BE RESPONSIBLE FOR THE LAYOUT AND TRAFFIC CONTROL FOR ALL PAVEMENT MARKINGS. PAVEMENT MARKING LAYOUT AND LIMITS SHALL BE COORDINATED WITH THE RESIDENT.

LEGEND

- BWLL - 6" BROKEN WHITE LANE LINE (10' LINE & 30' GAP WITH 3" TAPE)
- DWLL - 6" DOTTED WHITE LANE LINE (3' LINE & 9' GAP - 6" GROOVED IN TAPE)
- SWLL - 6" SOLID WHITE LANE LINE
- SYLL - 6" SOLID YELLOW LANE LINE
- SWGL - 12" SOLID WHITE GORE LINE



Filename: ...MSTA\025...StripingPlan1.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
SIGNING & STRIPING PLAN 1**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

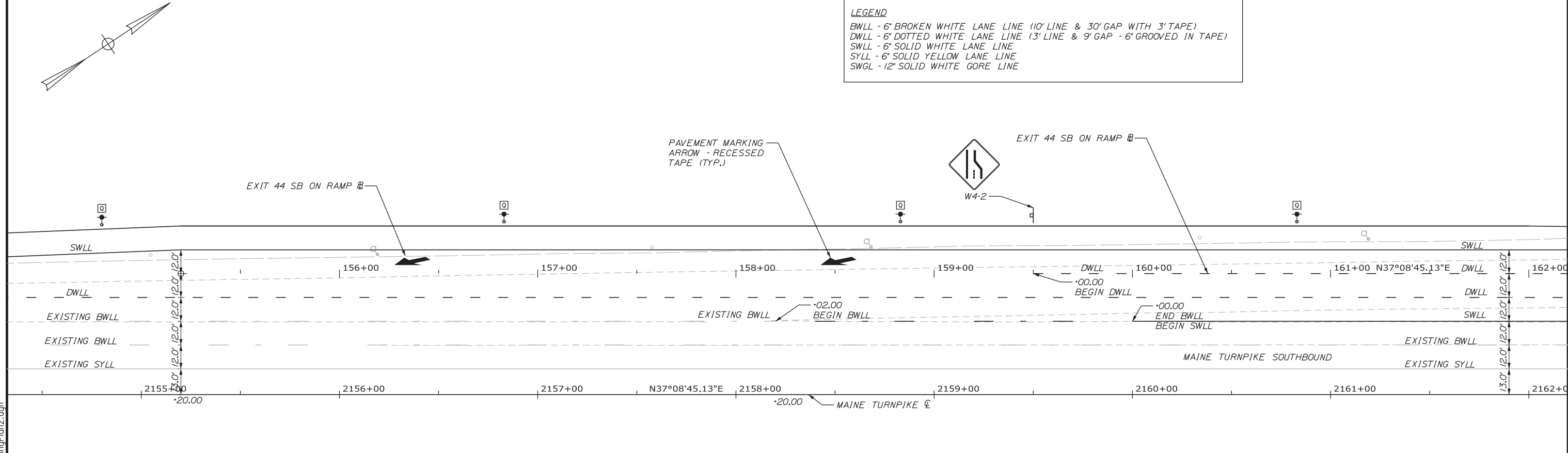
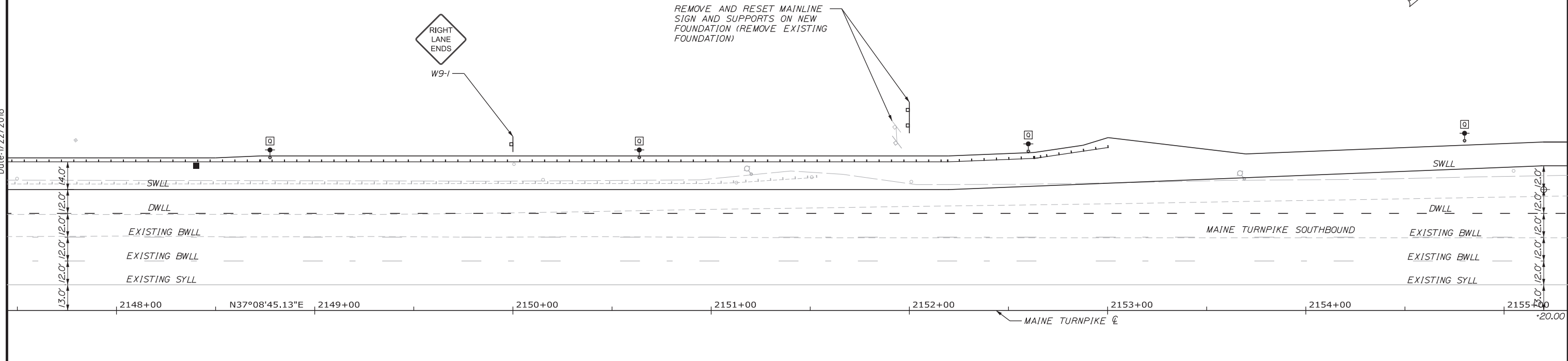
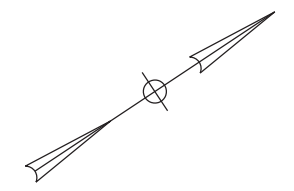
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2018.03

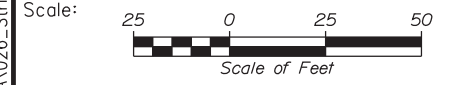
SHEET NUMBER: SS-1

25 OF 64

Date: 1/22/2018



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE (10' LINE & 30' GAP WITH 3" TAPE)
 DWLL - 6" DOTTED WHITE LANE LINE (3' LINE & 9' GAP - 6" GROOVED IN TAPE)
 SWLL - 6" SOLID WHITE LANE LINE
 SYLL - 6" SOLID YELLOW LANE LINE
 SWGL - 12" SOLID WHITE GORE LINE



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date	By	Date	
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

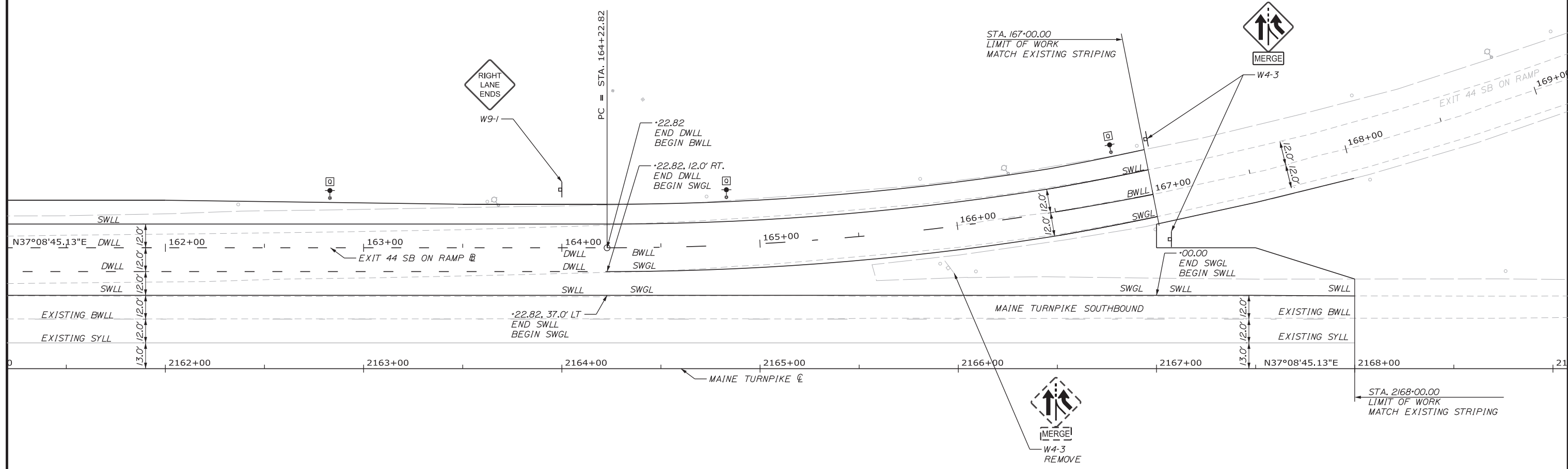
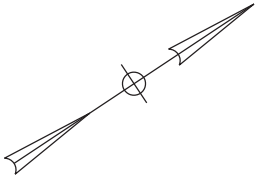
**EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 SIGNING & STRIPING PLAN 2**

SHEET NUMBER: SS-2
 CONTRACT: 2018.03
 26 OF 64

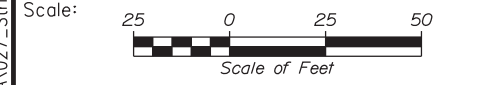
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Date: 1/22/2018

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 R = 1422.00'
 L = 732.88'
 T = 374.77'
 E = 48.56'



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE (10' LINE & 30' GAP WITH 3" TAPE)
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Designed by:

Stantec

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44 SOUTHBOUND ON RAMP IMPROVEMENTS

SIGNING & STRIPING PLAN 3

SHEET NUMBER: SS-3

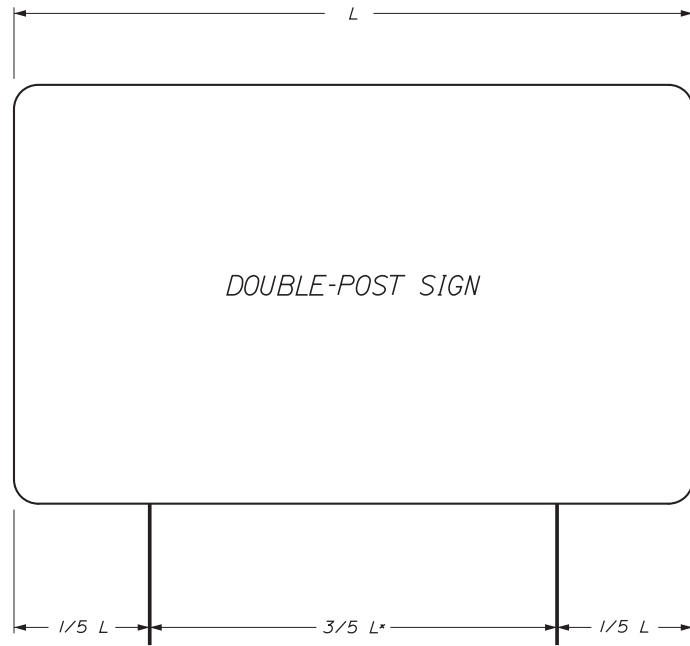
CONTRACT: 2018.03

27 OF 64

Filename: ...MSTA\027_StripingPlan3.dgn

Date: 1/22/2018

Filename: ...028_SIGNING_STRIPING_DETAIL.dgn



* - A MINIMUM 7 FEET REQUIRED WHEN INSTALLED ON BREAKAWAY DEVICES

POLE SPACING DETAIL
N.T.S.

GENERAL NOTES

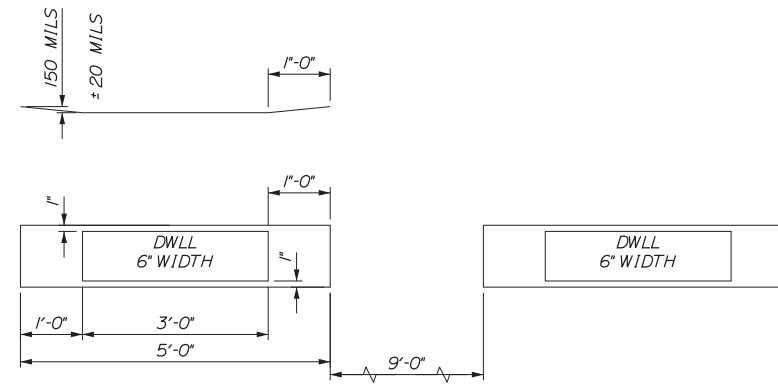
1. BOLTS TO BE 50,000 PSI MINIMUM YIELD STRENGTH.
2. POST TO BASE PLATE WELD SHALL BE 5/16" FILLET WELD.
3. BASE PLATES AND H-BEAMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 720.06.

BREAKAWAY NOTES

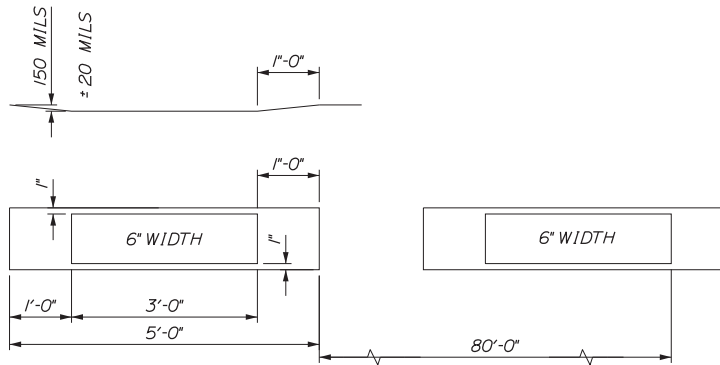
1. ON 6"X6" WOOD POSTS, DRILL 3/4" DIAMETER HOLES AT RIGHT ANGLES TO ONE ANOTHER 4 INCHES ABOVE GROUND LEVEL TO MEET BREAKAWAY STANDARDS.
2. ON BREAKAWAY SUPPORTS, THE HINGE SHOULD BE A MINIMUM OF 7 FEET ABOVE THE FOUNDATION. NO PERMANENT SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGE.

REMOVE AND RESET GUIDE SIGN NOTES

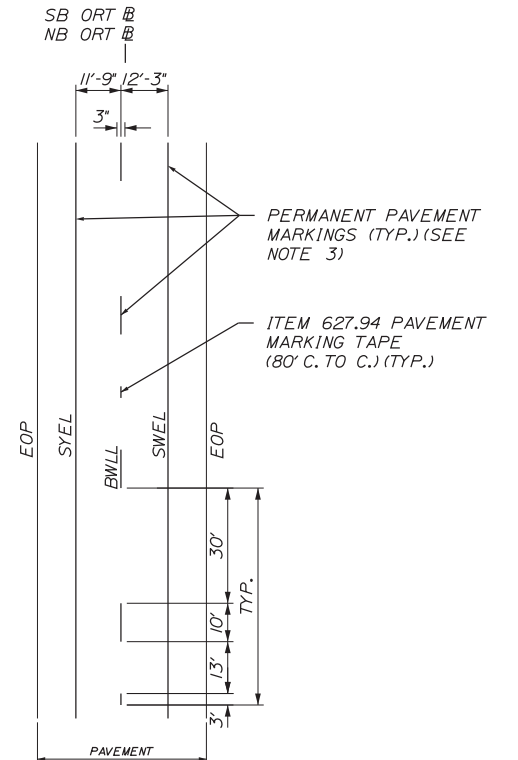
1. EXISTING SIGN POST LENGTHS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR IF THE POSTS ARE TO BE REUSED.
2. PROPOSED POST LENGTHS ARE MEASURED FROM THE TOP OF THE FOUNDATION TO THE TOP OF SIGN AND ARE APPROXIMATE. FINAL POST LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR ONCE FOUNDATIONS ARE PLACED.



ITEM 627.94 PAVEMENT MARKING TAPE - DOTTED WHITE LANE LINE (DWLL), 6 INCH WIDTH
GROOVING DETAIL
N.T.S.



ITEM 627.94 PAVEMENT MARKING TAPE
GROOVING DETAIL
N.T.S.



LEGEND

- SYEL = SOLID YELLOW EDGE LINE (6" PAINT)
- SWEL = SOLID WHITE WDG LINE (6" PAINT)
- BWLL = BROKEN WHITE LANE LINE (6" PAINT)
- EOP = EDGE OF PAVEMENT

ITEM 627.94 PAVEMENT MARKING TAPE
LAYOUT DETAIL
N.T.S.

SINGLE SUPPORT SIGNS								
FOUNDATION DIAMETER & DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (1) (3)	MATERIAL	ANCHOR BOLTS (2)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
	A < 4 FT²		U CHANNEL POST					12 FEET TO SIGN CENTER
	4 < A ≤ 10 FT²		WOOD POST 6"X6"					
18", 5.5'	10 < A ≤ 16 FT²	W=4'-0" MAX. BUT INCLUDES 5'-0" YIELD SIGN	W6X9	12"X12"X1" 41 LBS.	A36	1" φ X 3'-0"	12"	
18", 5.5'	16 < A ≤ 25 FT²	W=5'-0" MAX.	W6X15	12"X12"X1" 41 LBS.	A36	1" φ X 3'-0"	12"	
24", 7.0'	25 < A ≤ 42 FT²	W=7'-0" MAX.	W8X24	14"X14"X1" 55 LBS.	A36	1-1/4" φ X 3'-6"	14"	

MULTIPLE SUPPORT SIGNS								
FOUNDATION DIAMETER & DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (1) (3)	MATERIAL	ANCHOR BOLTS (2)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
24", 7.0'	TO 60 FT /POST		W8X18	14"X14"X1" 55 LBS.	A36	1-1/4" φ X 3'-6"	14"	20 FEET TO SIGN CENTER
24", 7.0'	60-85 FT² /POST		W10X22	12"X17"X1-1/4" 72 LBS.	A36	1-1/4" φ X 3'-6"	15"	
30", 8.0'	85-110 FT² /POST		W12X26	13"X17"X1-1/4" 87 LBS.	A36	1-1/2" φ X 4'-0"	17"	
30", 8.0'	110-135 FT² /POST		W14X30	14"X21"X1-1/4" 104 LBS.	A36	1-1/2" φ X 4'-0"	19"	

NOTES:

1. ITEM 627.94I PAVEMENT MARKING TAPE FOR DWLL AND ITEM 627.94 PAEMENT MARKING TAPE SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.
2. PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES
3. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON BOTH ROADWAYS
4. THE OFFSET DISTANCE SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
5. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF ITEM 627.94I PAVEMENT MARKING TAPE (DWLL) AND SHALL BE INCIDENTAL TO THE INSTALLATION OF THE TAPE



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

By	Date	By	Date
Designed	TFD 1\22\18	Checked	LEM 1\22\18
Drawn	PLP 1\22\18	In Charge of	GAE 1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
SIGNING & STRIPING DETAIL
SHEET NUMBER: SS-4
CONTRACT: 2018.03
28 OF 64



REMOVE AND STACK SIGN SUMMARY

* CONTRACTOR TO VERIFY

DESCRIPTION	QUANTITY	HEIGHT* (IN.)	WIDTH* (IN.)	AREA* (SQ. FT.)	NUMBER AND TYPE OF POSTS	COLOR		DIRECTION (SB-SOUTHBOUND) (RAMP)	LOCATION
						BACKGROUND	LEGEND		
	2	48	24	8.00	1 - WOOD	YELLOW	BLACK	RAMP	STA 169+62, RT & LT
RIGHT LANE ENDS	1	48	48	16.00	1 - WOOD	YELLOW	BLACK	RAMP	STA. 173+65, LT
	1	36	36	9.00	1 - WOOD	YELLOW	BLACK	SB	STA. 2165+91, LT



PROPOSED SIGN SUMMARY

* CONTRACTOR TO CONFIRM HEIGHT

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	COLOR		SIGN SIZE			NUMBER OF POSTS	POST SIZE	HEIGHT OF POST*			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (SB-SOUTHBOUND)	STATIONS	PAY ITEM NUMBER
			BACK-GROUND	LEGEND	HEIGHT (IN)	WIDTH (IN)	AREA (SQ. FT.)			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)					
W9-1		2	YELLOW	BLACK	48	48	16.00 (32.00)	1	W6x9				18" DIA	NO YES	SB	STA. 2146+75 LT STA. 2159+50 LT	645.271
W4-2	RIGHT LANE ENDS	2	YELLOW	BLACK	48	48	16.00 (32.00)	1	W6x9				18" DIA	NO YES	SB	STA. 2150+00 LT STA. 2164+00 LT	645.271
W4-3		2	YELLOW	BLACK	48	48	16.00 (32.00)	1	W6x15				18" DIA	YES YES	SB	STA. 167+00 LT STA. 2167+06 LT	645.271
SP-21	MERGE	2	YELLOW	BLACK	12	36	3.00 (6.00)										

REMOVE AND RESET SIGN SUMMARY

* CONTRACTOR TO VERIFY

EXISTING								PROPOSED						
DESCRIPTION	HEIGHT* (IN.)	WIDTH* (IN.)	AREA* (SQ. FT.)	NUMBER AND TYPE OF POSTS	COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND) (EXI-EXIT I)	LOCATION	NUMBER OF POSTS, TYPE AND SIZE	FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND) (EXIT I)	LOCATION	PAY ITEM NUMBER
					BACKGROUND	LEGEND								
	174	144	174	2 - W12X26	BLUE	WHITE	SB	STA. 2144+36 LT		30" DIA.	YES	SB	STA. 2144+50 LT	652.501
	162	108	121.5	2 - W10X22	BROWN	WHITE	SB	STA. 2151+94 LT		24" DIA.	YES	SB	STA. 2152+00 LT	652.502


Date: 1/22/2018

Filename: ...029_Reset_Sign_Summary.dgn

Scale: N.T.S.

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

By	Date	By	Date
Designed TFD	1\22\18	Checked LEM	1\22\18
Drawn PLP	1\22\18	In Charge of GAE	1\22\18

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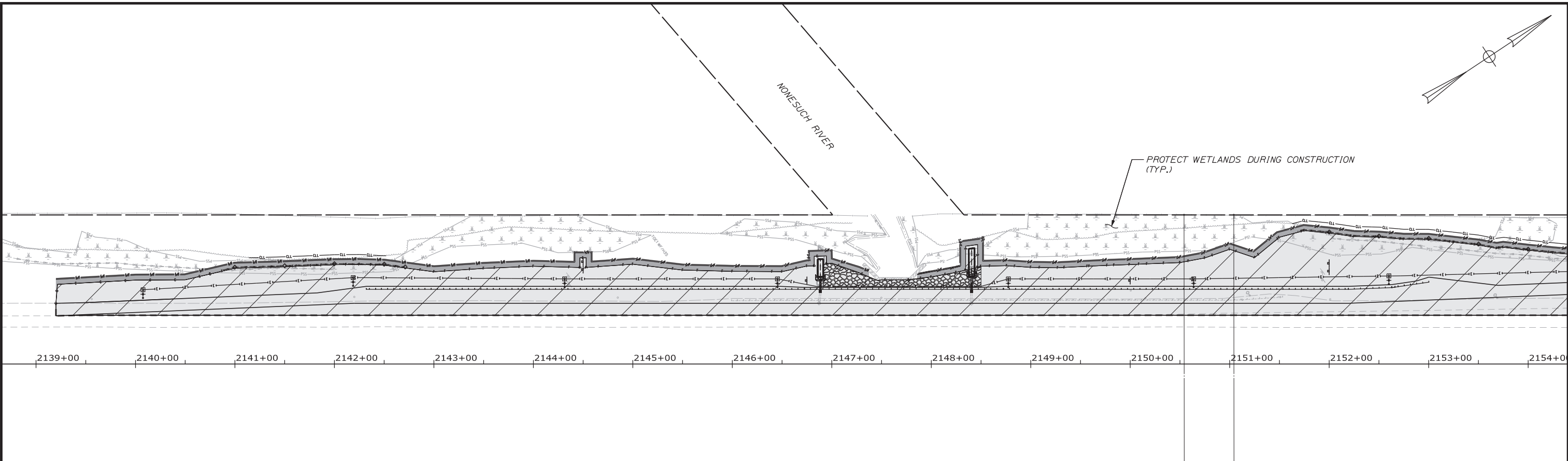
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

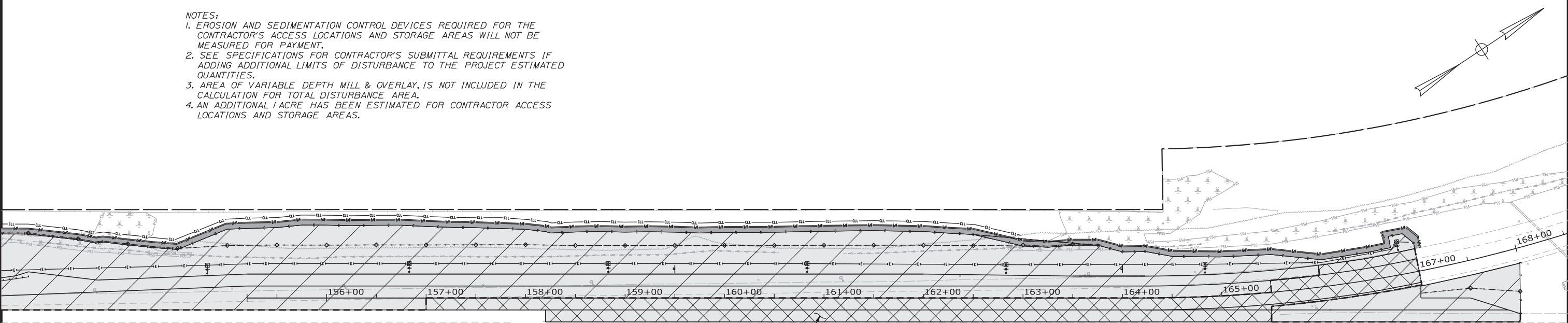
EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
SIGN SUMMARY

SHEET NUMBER: SS-5
CONTRACT: 2018.03
29 OF 64

Date: 1/22/2018

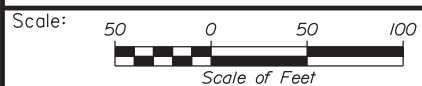


- NOTES:
1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
 2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
 3. AREA OF VARIABLE DEPTH MILL & OVERLAY, IS NOT INCLUDED IN THE CALCULATION FOR TOTAL DISTURBANCE AREA.
 4. AN ADDITIONAL 1 ACRE HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.



AREA OF VARIABLE DEPTH MILL & OVERLAY, SEE NOTE 3

	TEMPORARY	0.40 ACRES (17,224 SF)
	PERMANENT	3.71 ACRES (161,640 SF)
	TOTAL	4.11 ACRES (183,039 SF)



Designed by:



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THE GOLD STAR
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EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 LIMITS OF DISTURBANCE

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

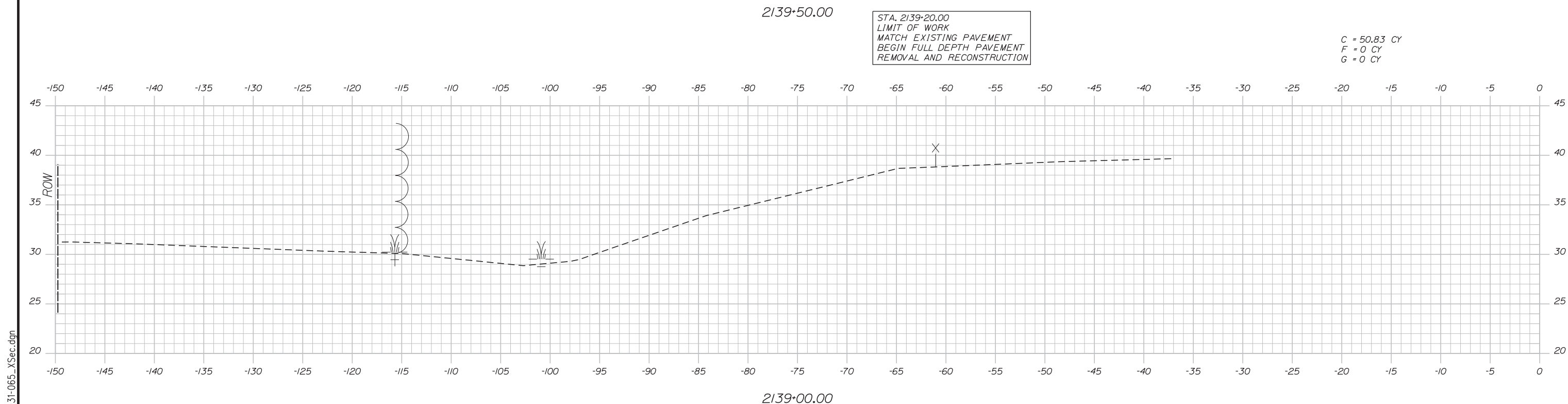
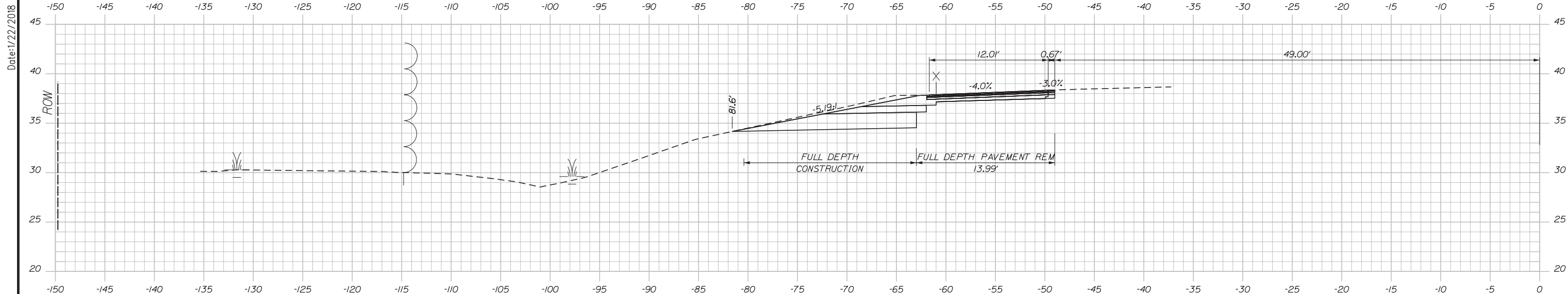
CONTRACT: 2018.03

SHEET NUMBER: LOD-1

30 OF 64

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Date: 1/22/2018



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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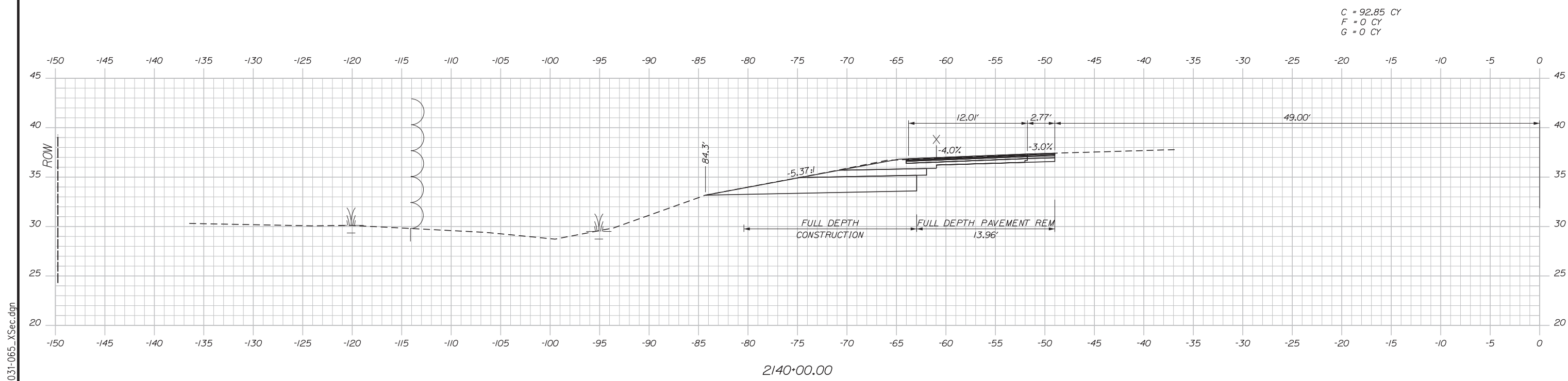
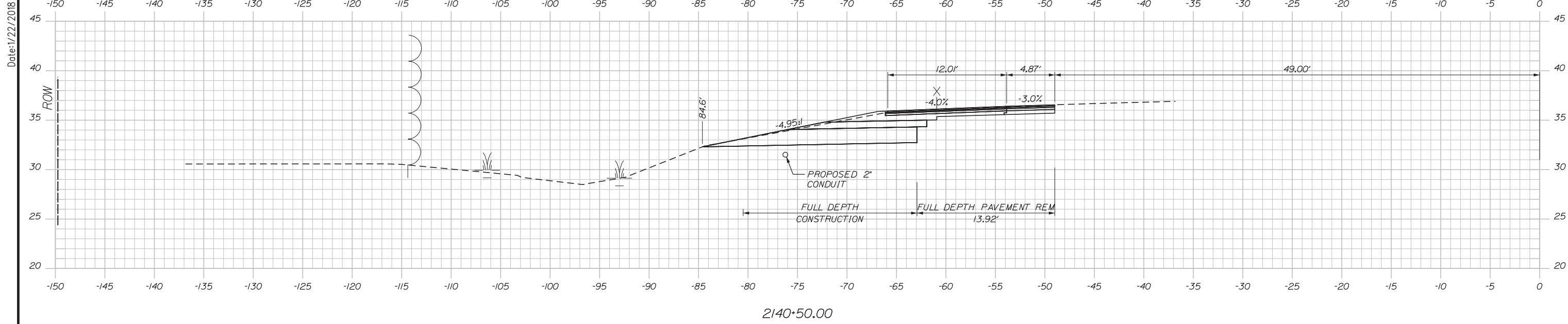
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2139+00.00 TO STA. 2139+50.00

SHEET NUMBER: XS-1
 CONTRACT: 2018.03
 31 OF 64

Date: 1/22/2018



Scale: 5 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2140+00.00 TO STA. 2140+50.00

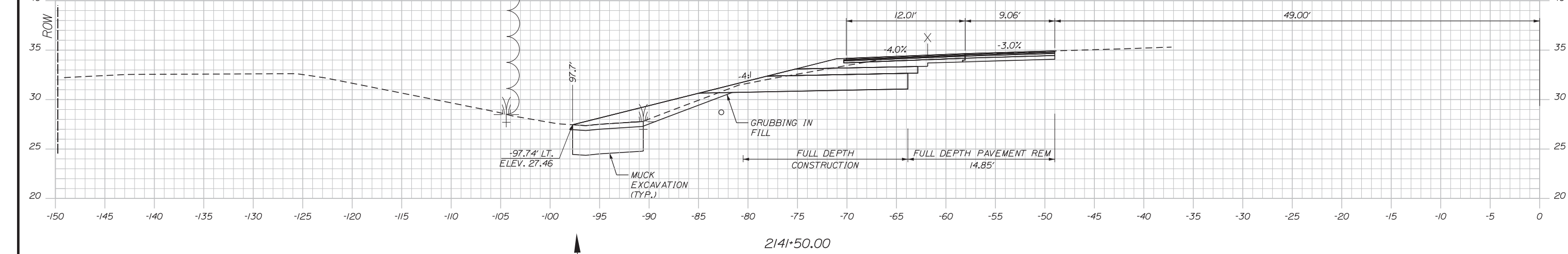
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CONTRACT: 2018.03

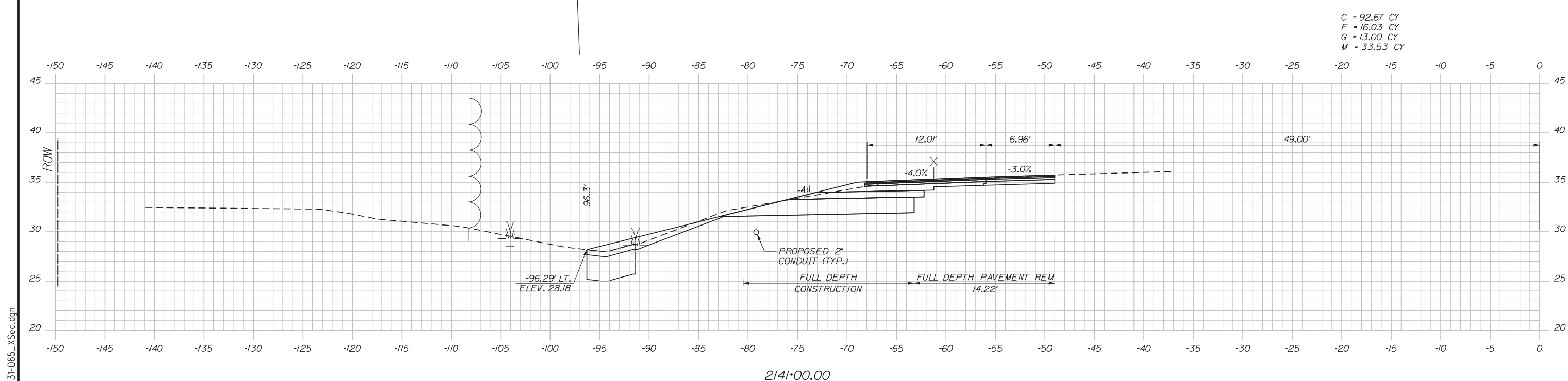
32 OF 64

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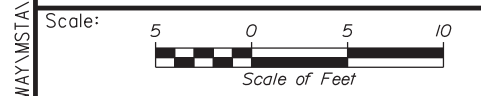
Date: 1/22/2018



C = 82.48 CY
 F = 41.16 CY
 G = 16.67 CY
 M = 44.83 CY



C = 92.67 CY
 F = 16.03 CY
 G = 13.00 CY
 M = 33.53 CY



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2141+00.00 TO STA. 2141+50.00

SHEET NUMBER: XS-3

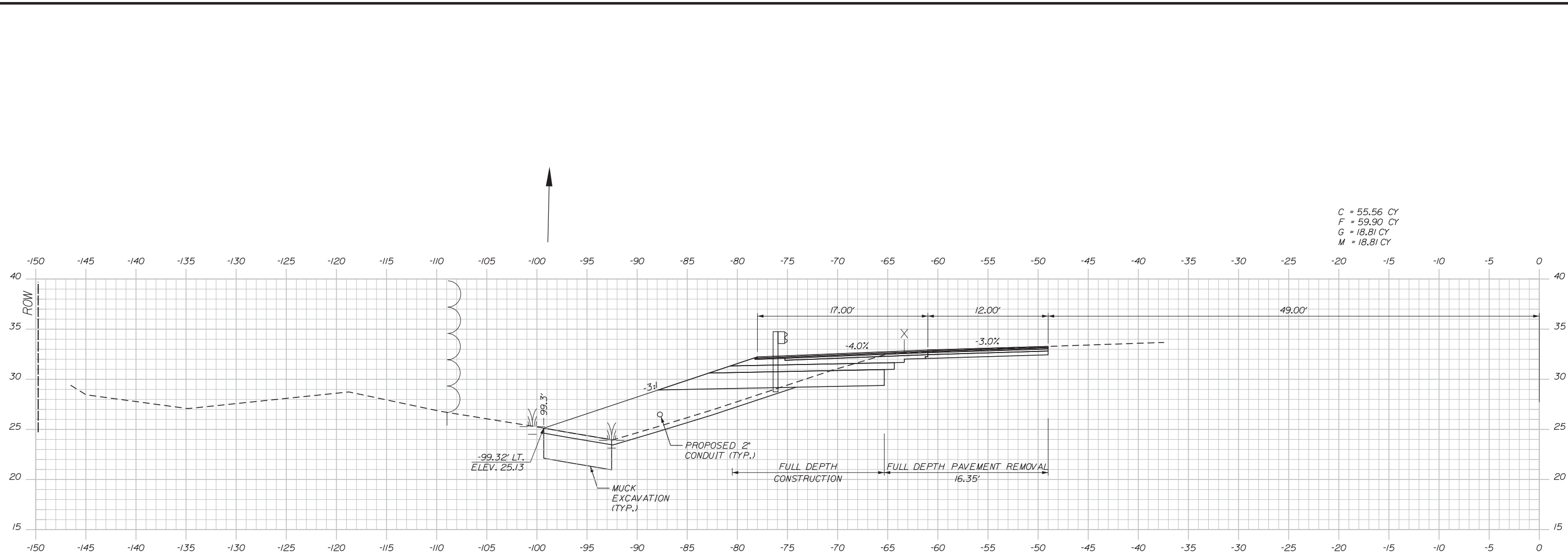
CONTRACT: 2018.03

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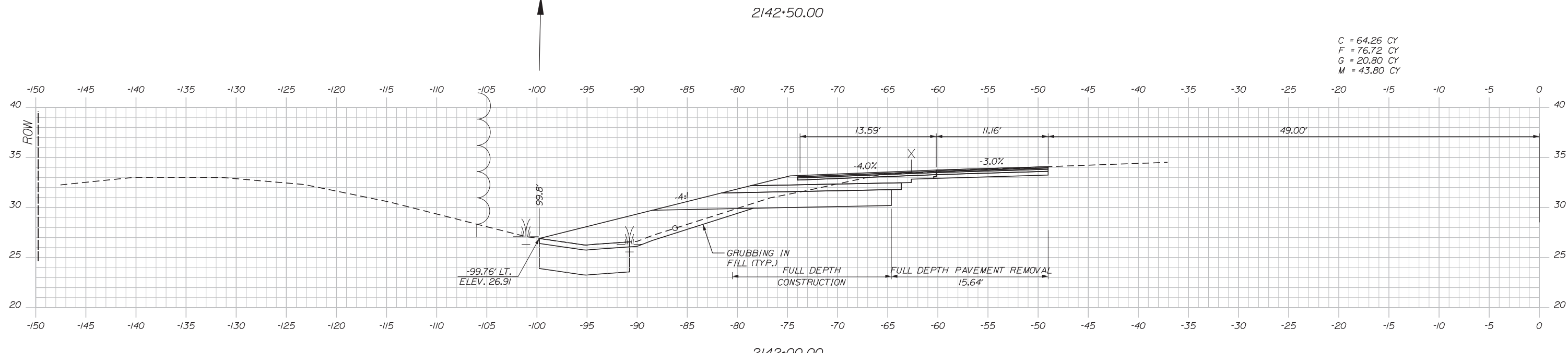
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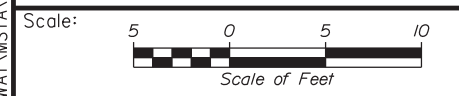
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2142+50.00



2142+00.00



Designed by:

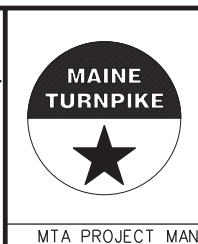
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CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2142+00.00 TO STA. 2142+50.00

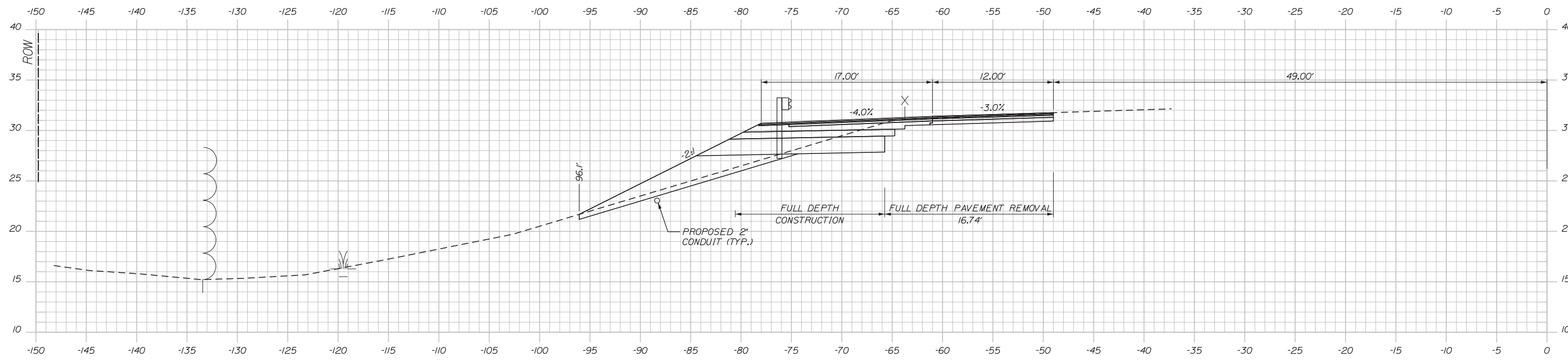
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CONTRACT: 2018.03

34 OF 64

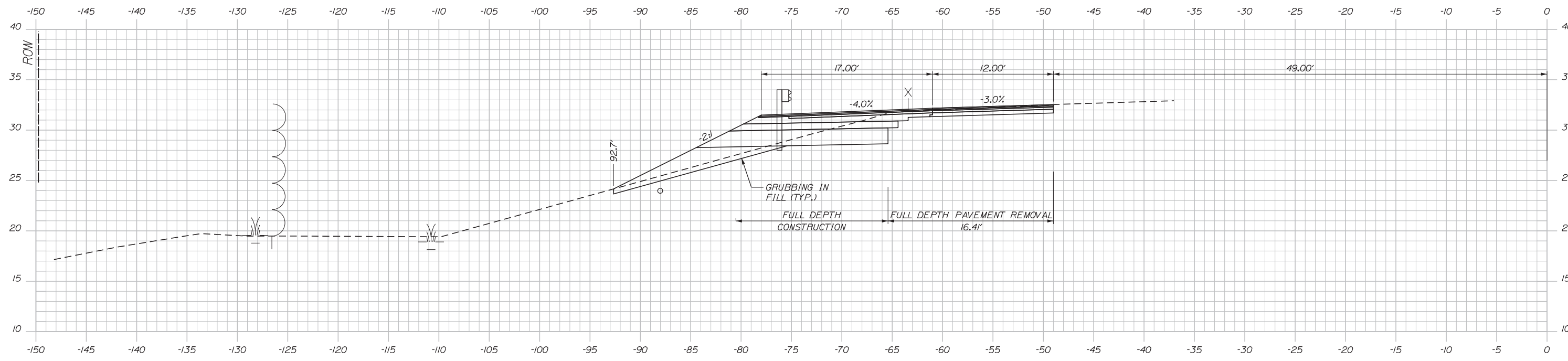
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Date: 1/22/2018

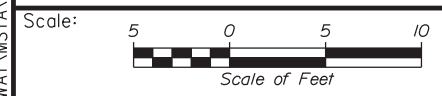


2143+50.00

C = 54.15 CY
 F = 34.44 CY
 G = 17.18 CY



2143+00.00



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2143+00.00 TO STA. 2143+50.00

SHEET NUMBER: XS-5

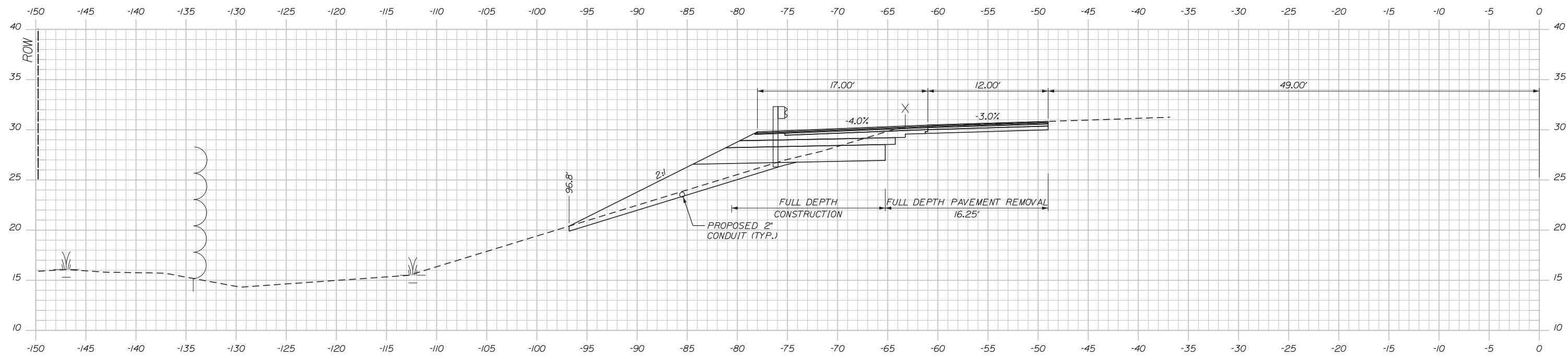
CONTRACT: 2018.03

35 OF 64

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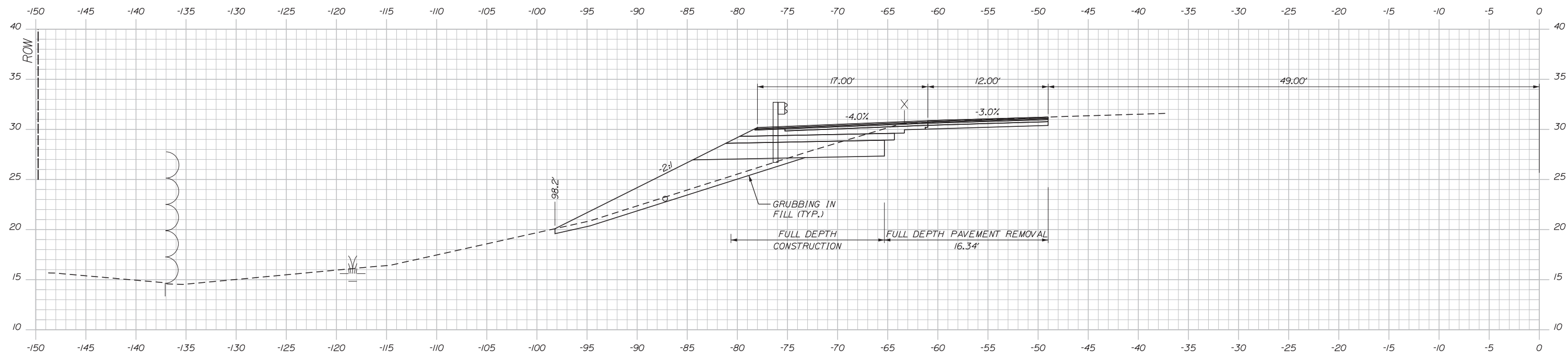
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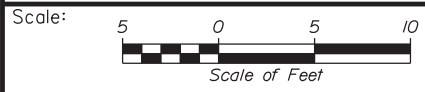


2144+50.00

C = 49.70 CY
 F = 55.04 CY
 G = 21.19 CY



2144+00.00



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2144+00.00 TO STA. 2144+50.00

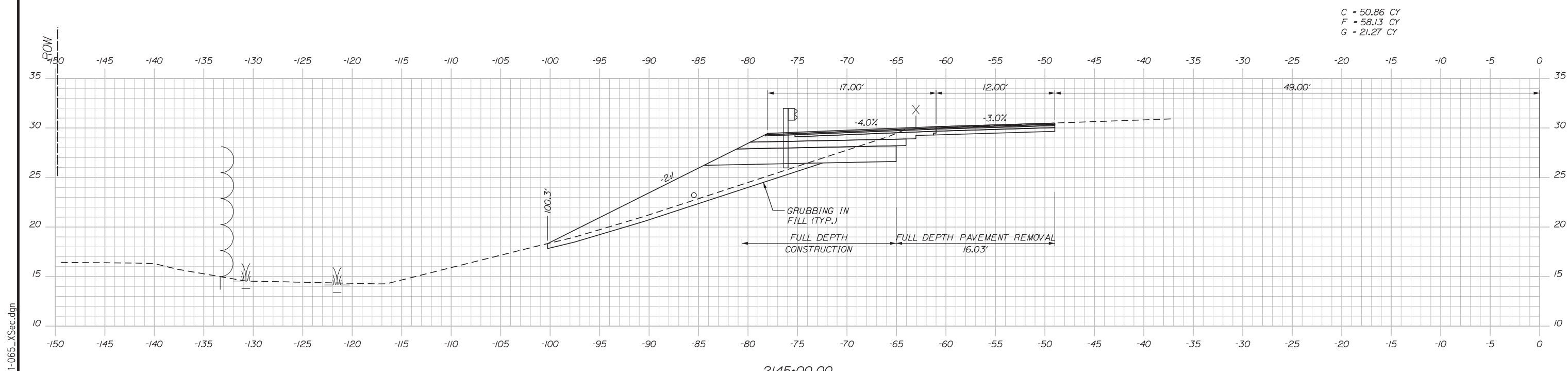
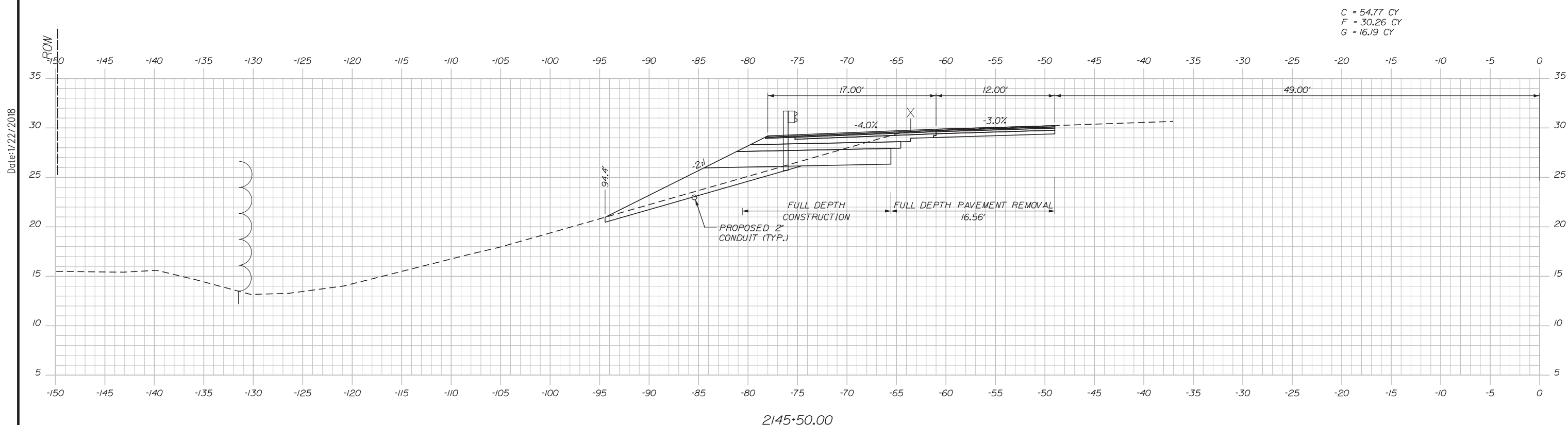
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CONTRACT: 2018.03

36 OF 64

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Date: 1/22/2018



Scale: 5 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

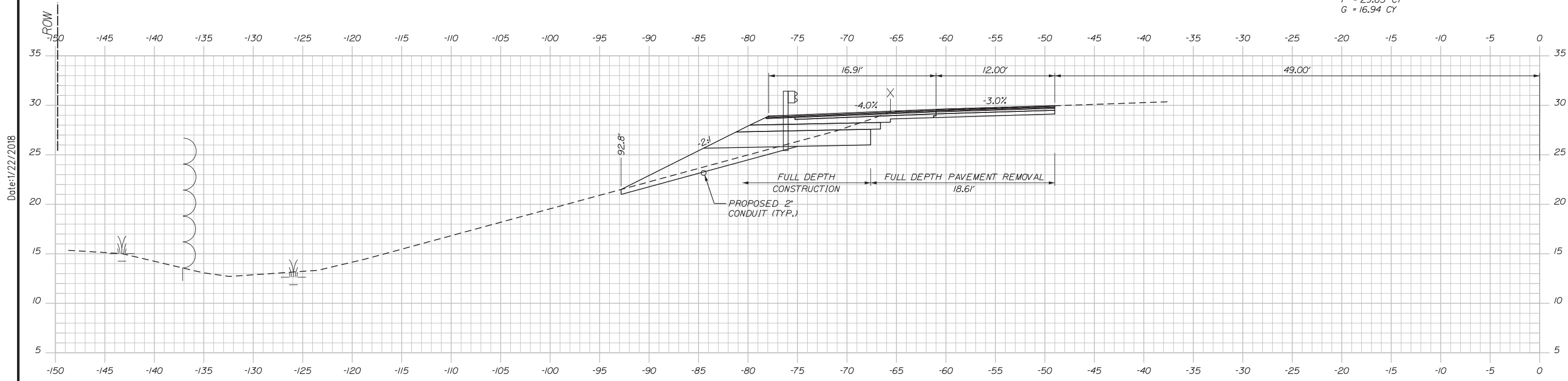
EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2145+00.00 TO STA. 2145+50.00

SHEET NUMBER: XS-7

CONTRACT: 2018.03

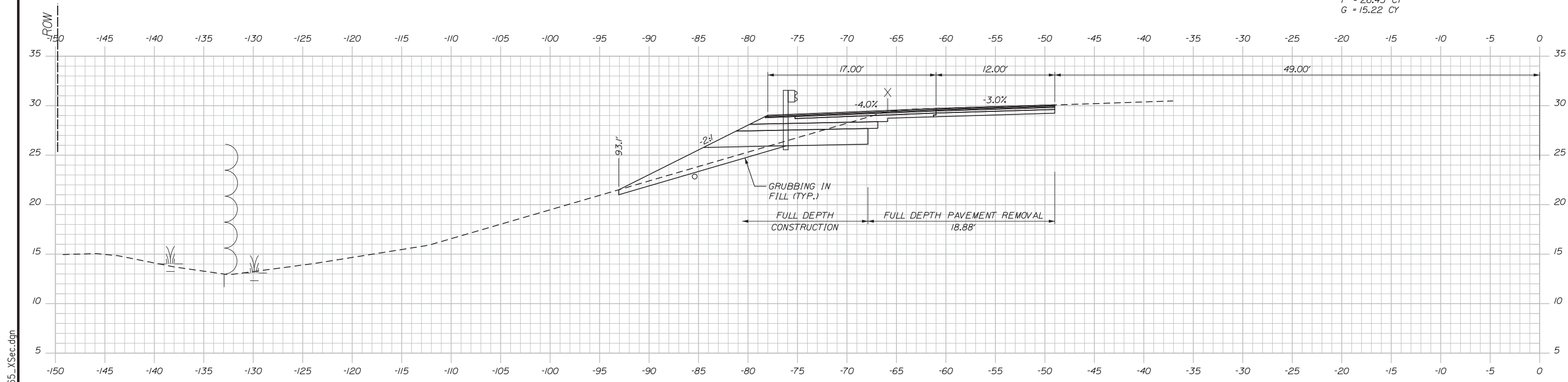
37 OF 64

Date: 1/22/2018



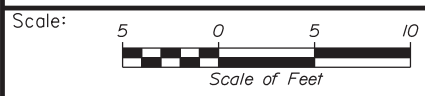
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 G = 16.94 CY

2146+50.00



C = 51.86 CY
 F = 26.43 CY
 G = 15.22 CY

2146+00.00



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2146+00.00 TO STA. 2146+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

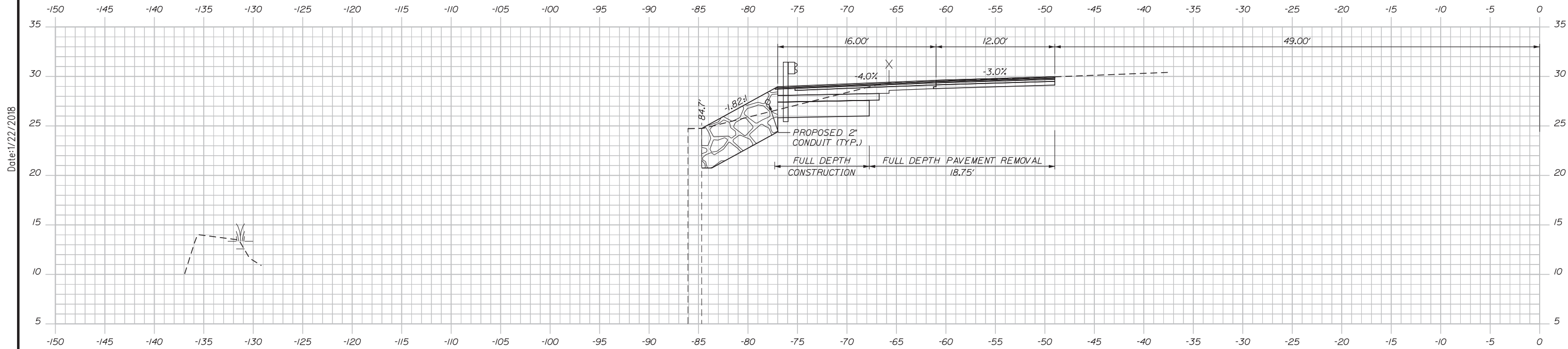
CONTRACT: 2018.03

SHEET NUMBER: XS-8

38 OF 64

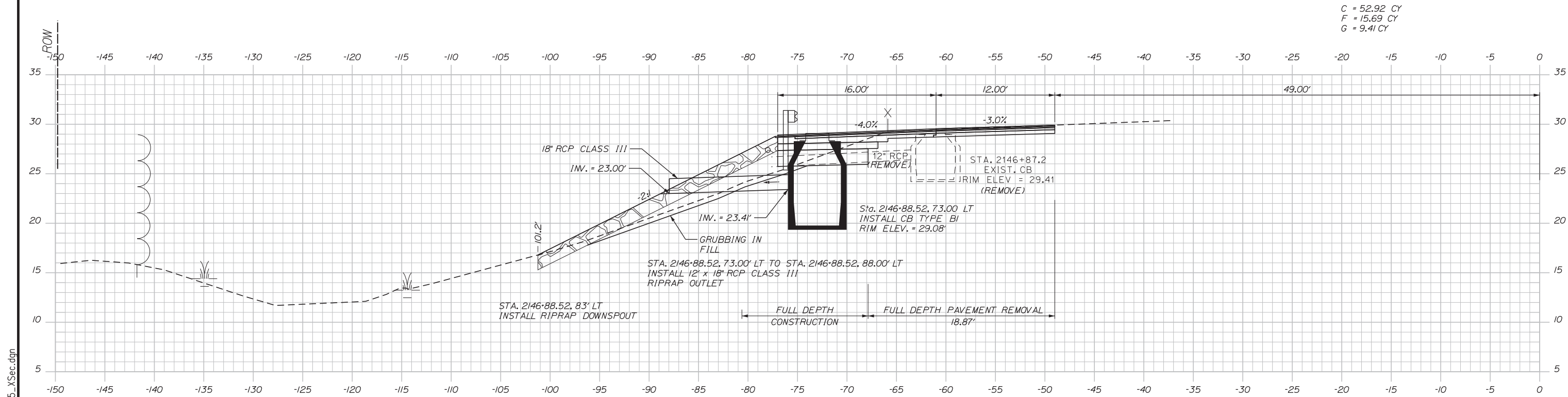
Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018



C = 58.02 CY
F = 0 CY
G = 0 CY

2147+50.00



C = 52.92 CY
F = 15.69 CY
G = 9.41 CY

2147+00.00

Scale: 5 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

STANTEC CONSULTING SERVICES INC.
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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2147+00.00 TO STA. 2147+50.00

SHEET NUMBER: XS-9

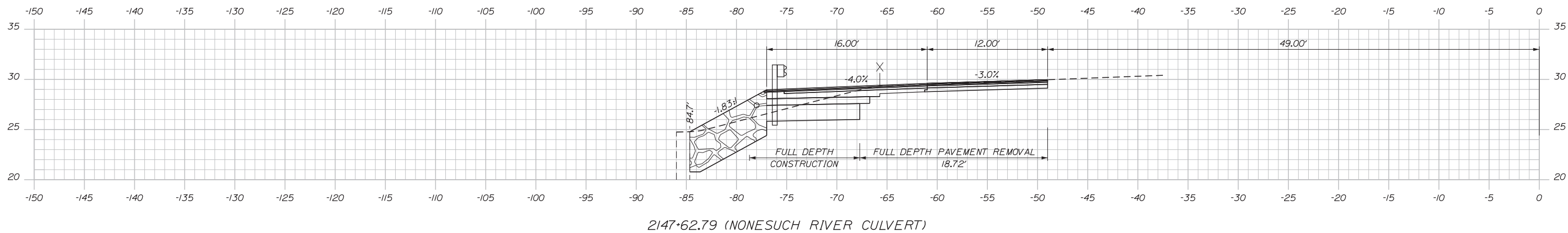
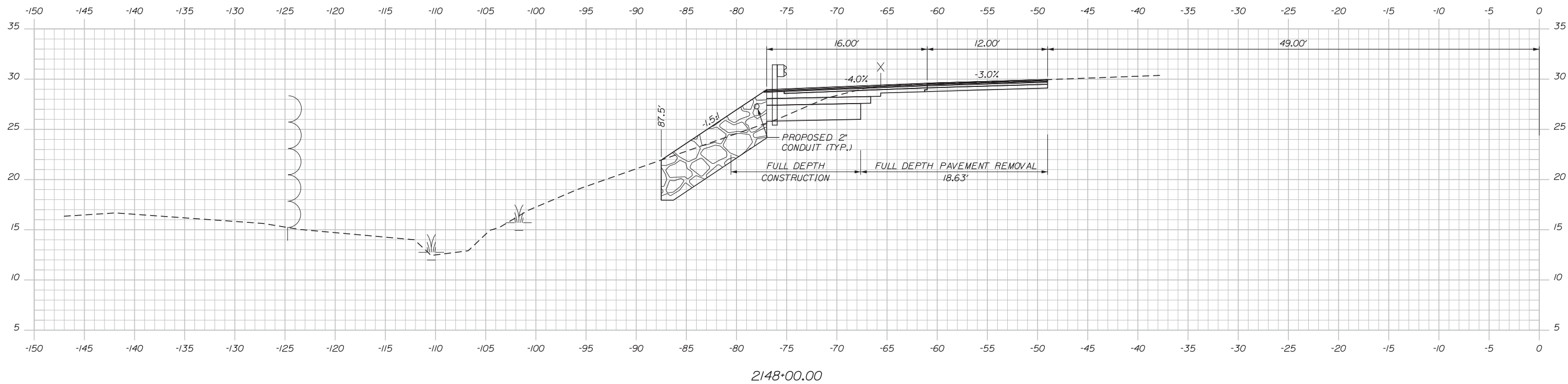
CONTRACT: 2018.03

9 OF 64

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018

C = 51.17 CY
 F = 36.09 CY
 G = 11.25 CY



Designed by:



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THE GOLD STAR
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EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2147+62.79 TO STA. 2148+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2018.03

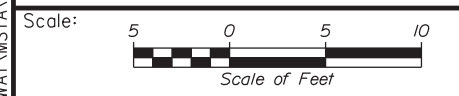
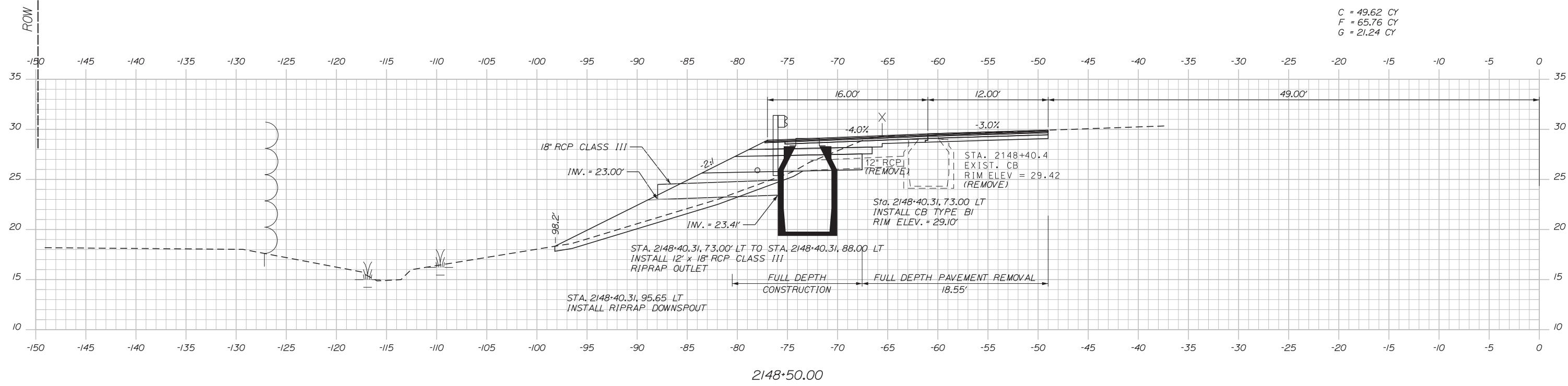
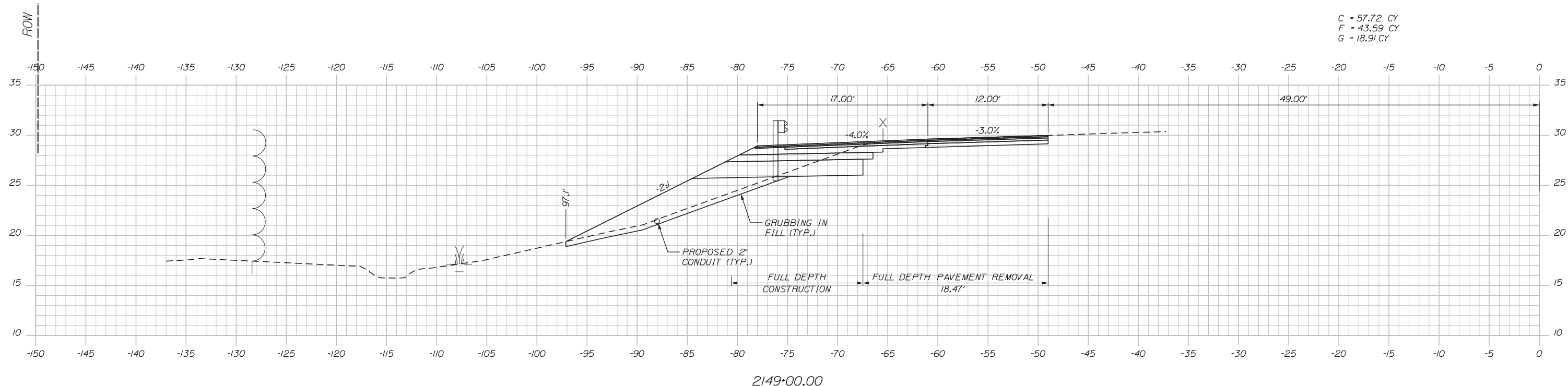
SHEET NUMBER: XS-10

40 OF 64

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Designed by:

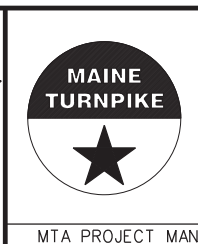
Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2148+50.00 TO STA. 2149+00.00

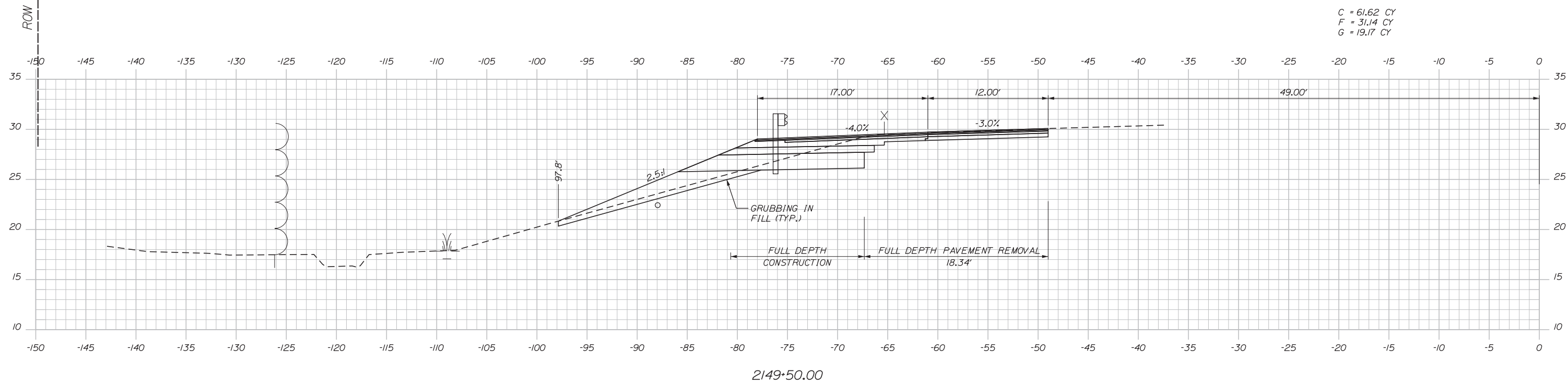
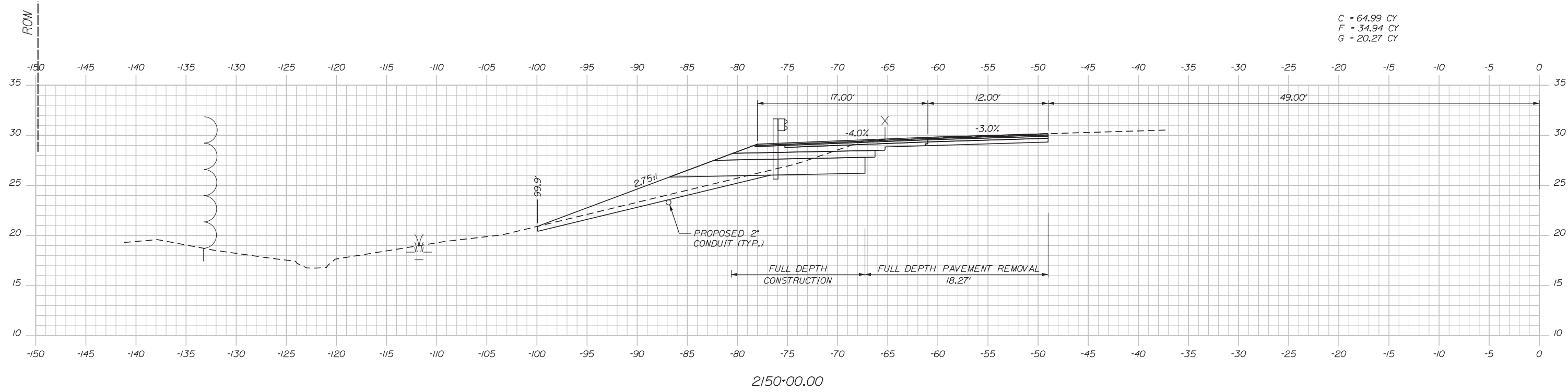
SHEET NUMBER: XS-11

CONTRACT: 2018.03

41 OF 64

Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Scale: 5 0 5 10
Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2149+50.00 TO STA. 2150+00.00

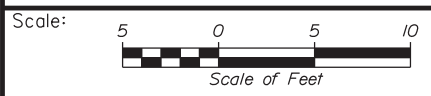
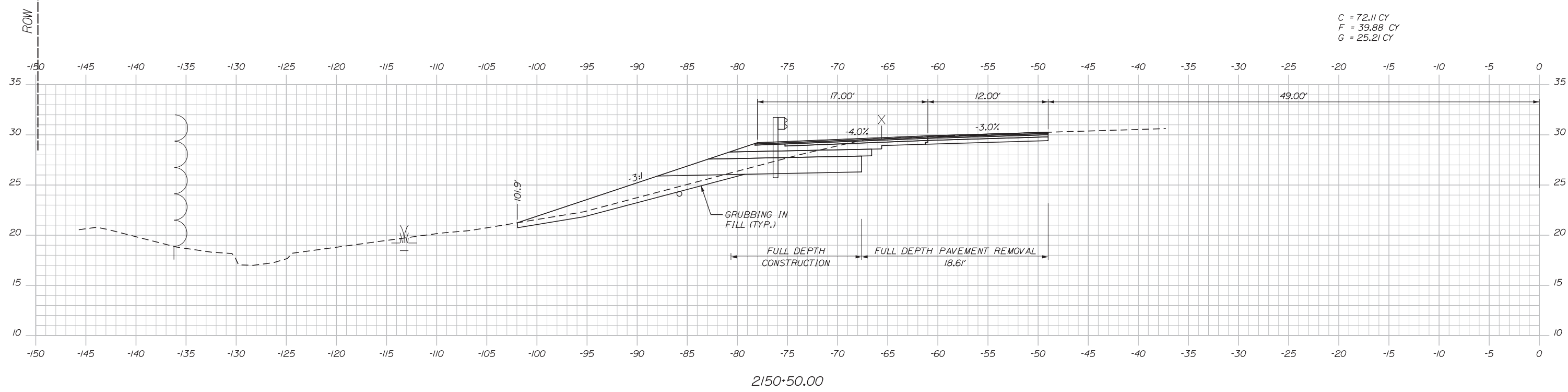
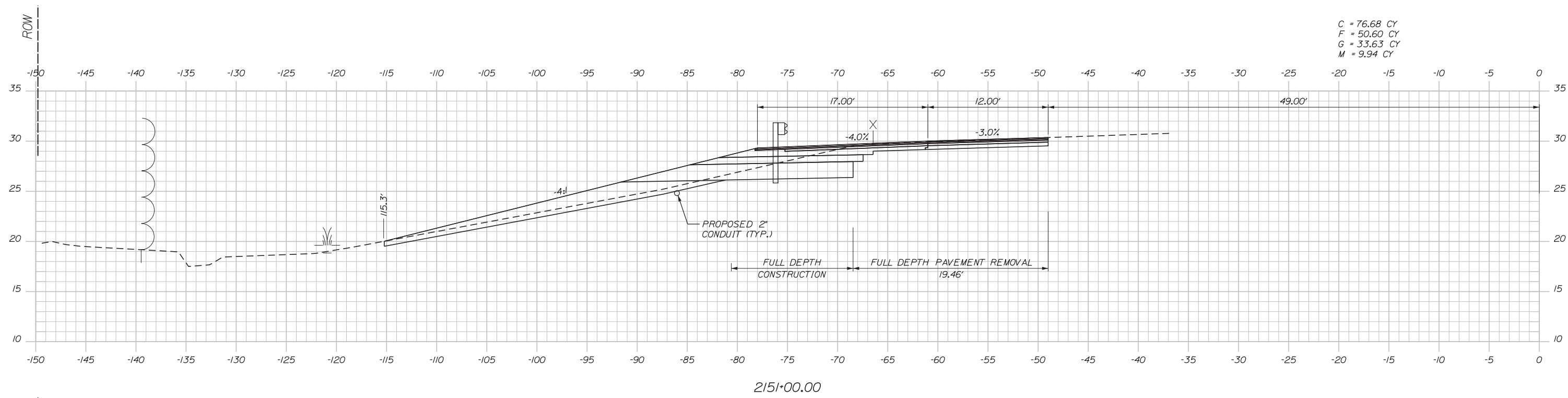
SHEET NUMBER: XS-12

CONTRACT: 2018.03

42 OF 64

Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Designed by:

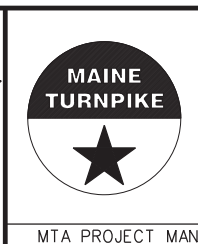
Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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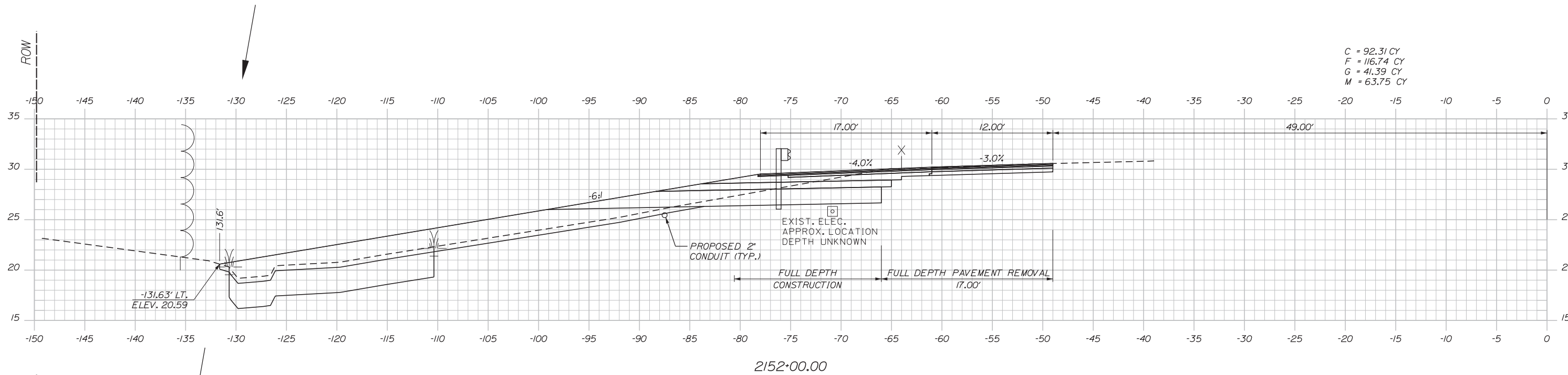
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2150+50.00 TO STA. 2151+00.00

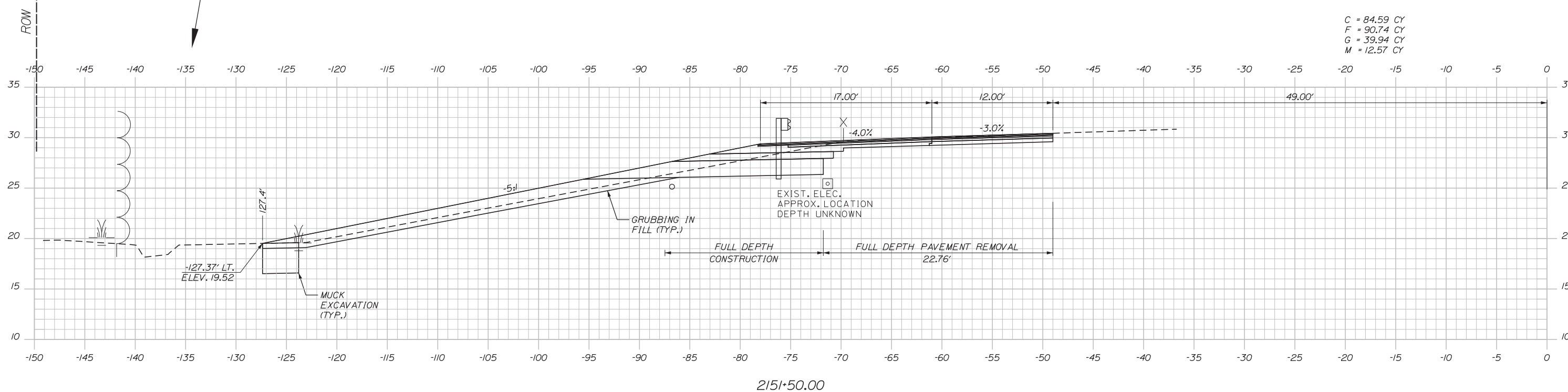
SHEET NUMBER: XS-13
 CONTRACT: 2018.03
 43 OF 64

Date: 1/22/2018

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn



2152+00.00



2151+50.00



No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

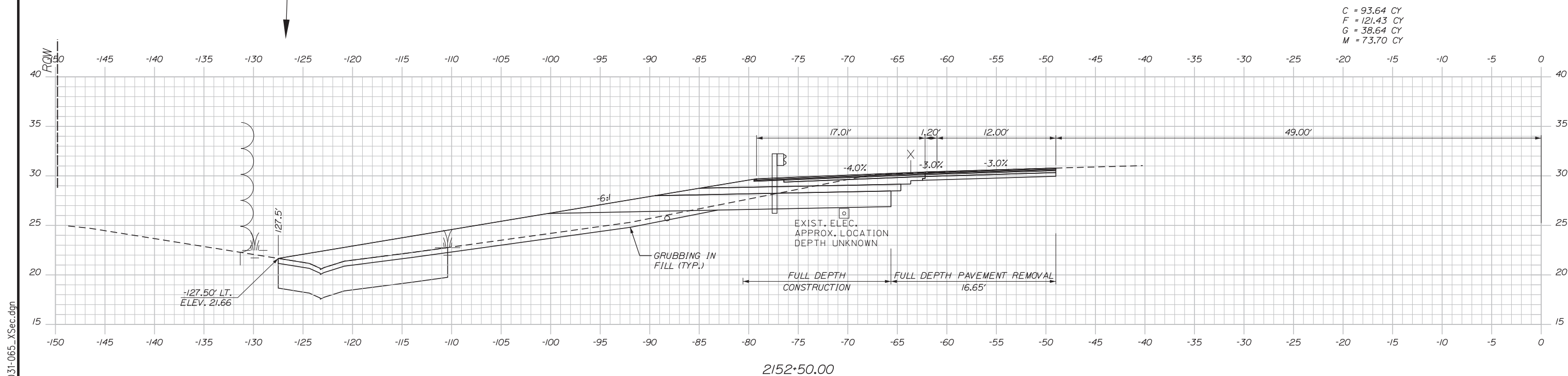
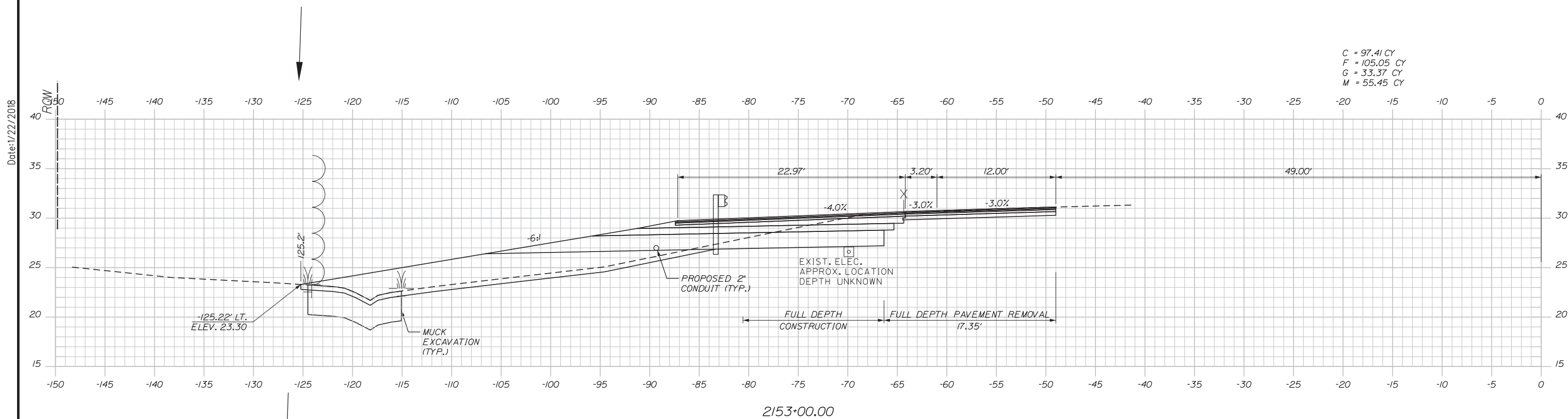
EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2151+50.00 TO STA. 2152+00.00

CONTRACT: 2018.03

SHEET NUMBER: XS-14

44 OF 64

Date: 1/22/2018



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EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2152+50.00 TO STA. 2153+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

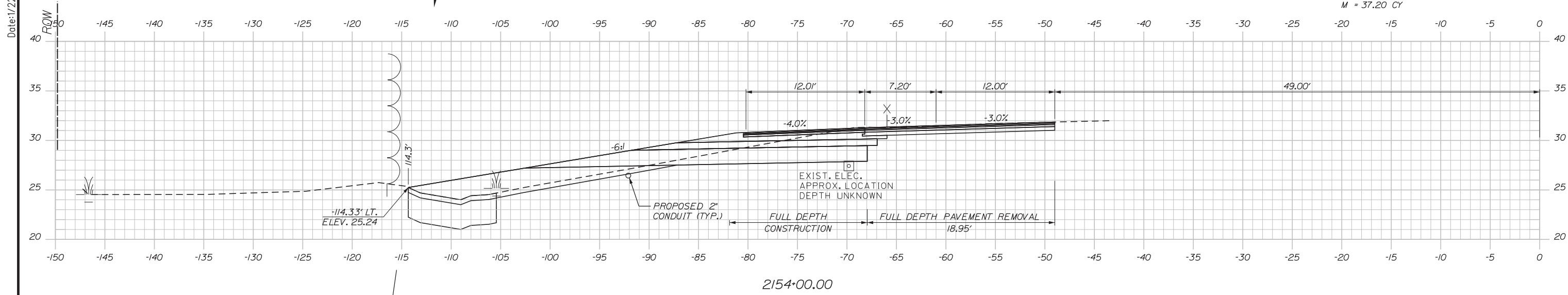
CONTRACT: 2018.03

SHEET NUMBER: XS-15

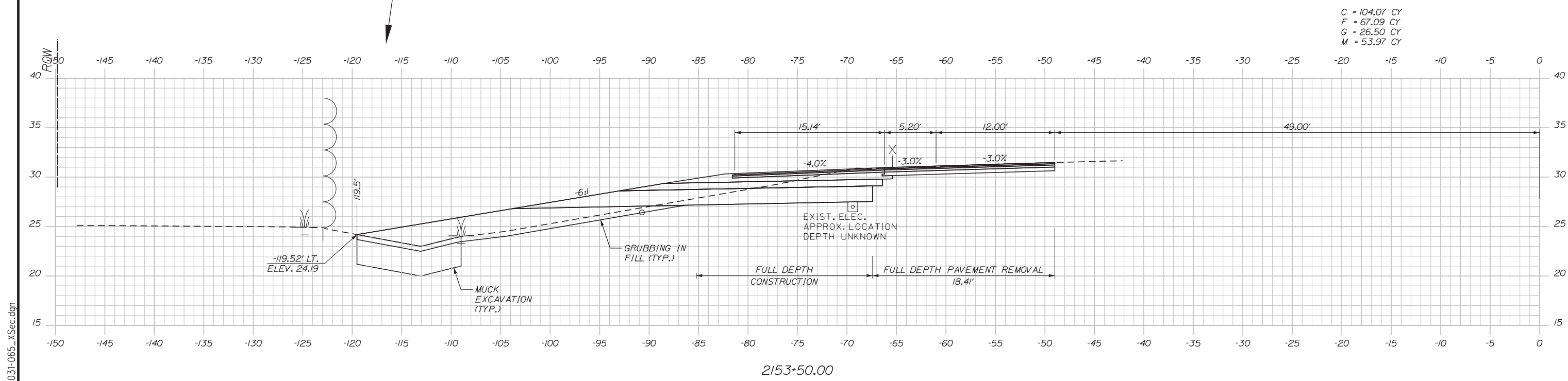
45 OF 64

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

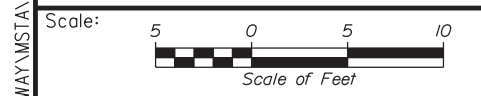
Date: 1/22/2018



C = 108.42 CY
 F = 45.10 CY
 G = 20.63 CY
 M = 37.20 CY



C = 104.07 CY
 F = 67.09 CY
 G = 26.50 CY
 M = 53.97 CY



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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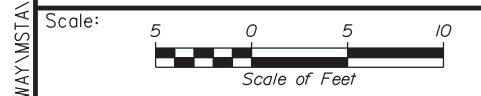
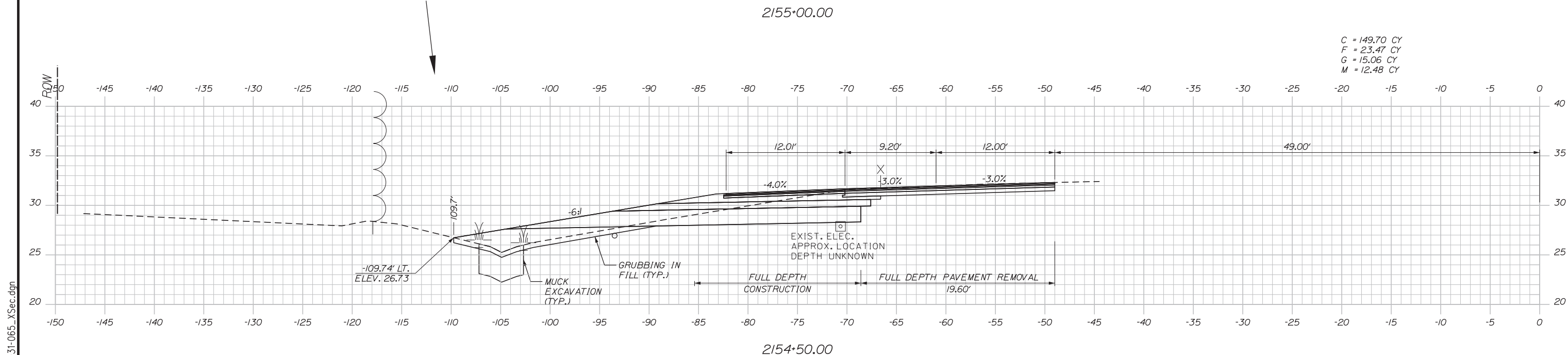
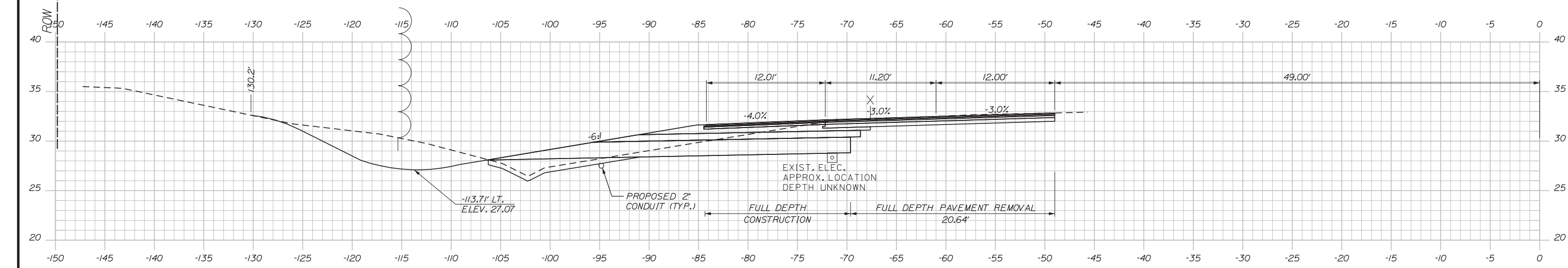
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2153+50.00 TO STA. 2154+00.00

SHEET NUMBER: XS-16
 CONTRACT: 2018.03
 46 OF 64

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2154+50.00 TO STA. 2155+00.00

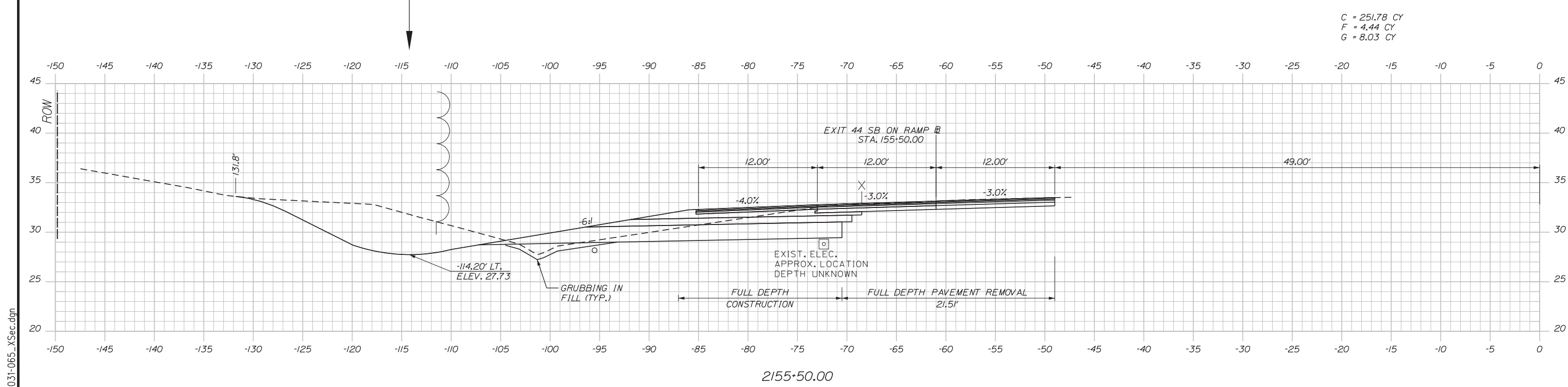
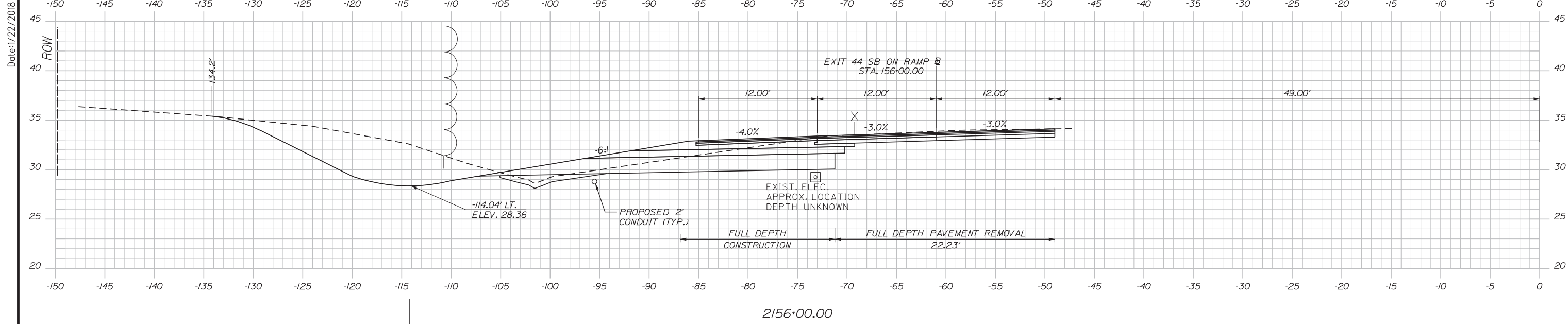
SHEET NUMBER: XS-17

CONTRACT: 2018.03

47 OF 64

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2155+50.00 TO STA. 2156+00.00

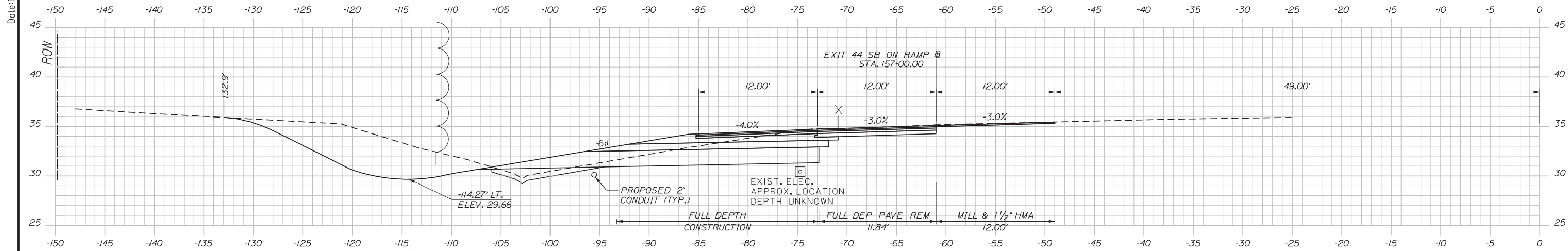
SHEET NUMBER: XS-18

CONTRACT: 2018.03

48 OF 64

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018

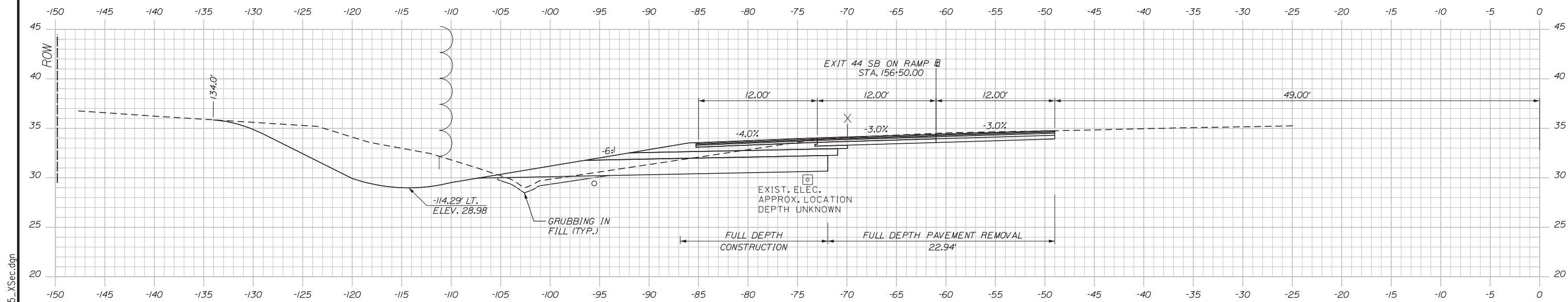


C = 223.67 CY
F = 3.65 CY
G = 7.70 CY

2157+00.00

STA. 2157+00
BEGIN VARIABLE DEPTH MILL & PAVE
WITH FULL DEPTH PAVEMENT REMOVAL
AND RECONSTRUCTION

C = 239.39 CY
F = 5.31 CY
G = 8.62 CY



2156+50.00



Designed by:



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EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2156+50.00 TO STA. 2157+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

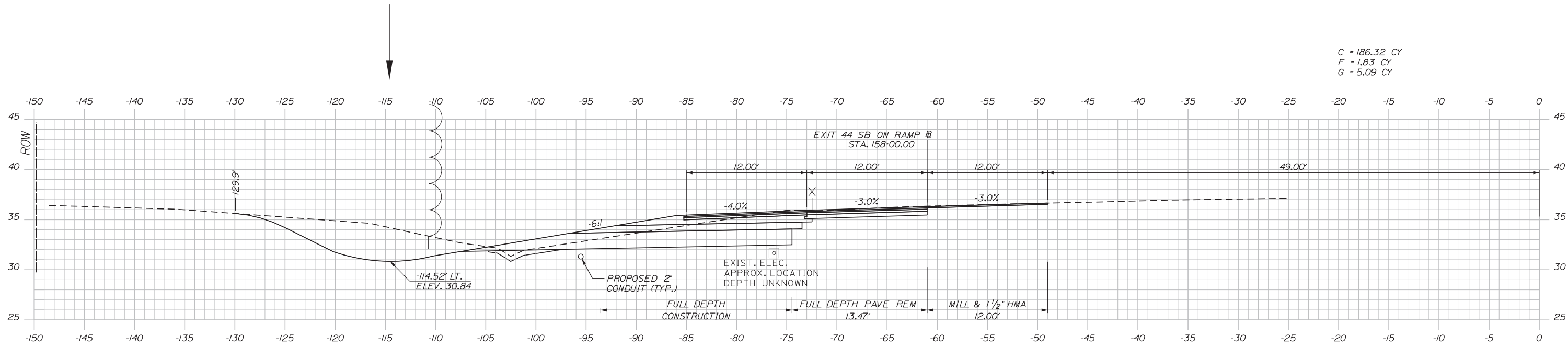
CONTRACT: 2018.03

SHEET NUMBER: XS-19

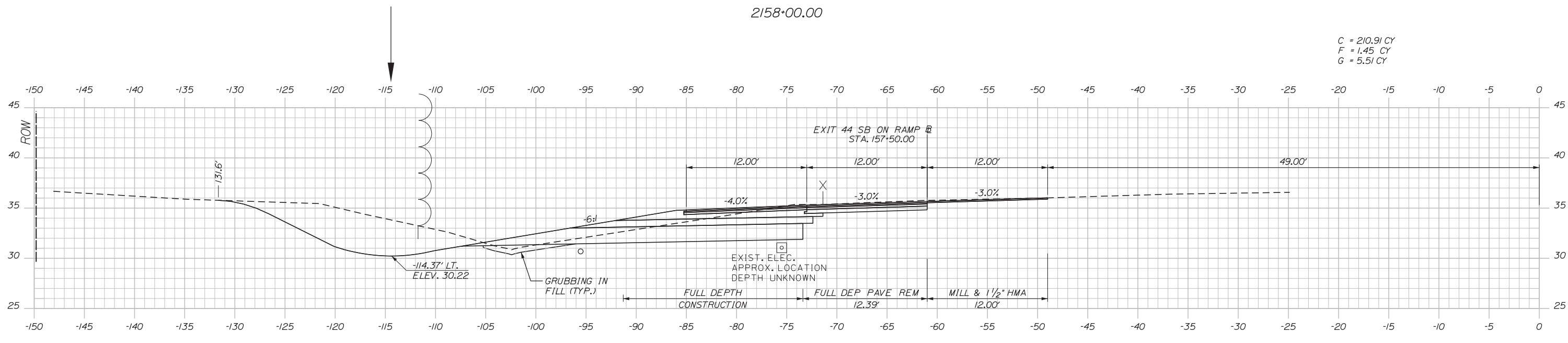
49 OF 64

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn

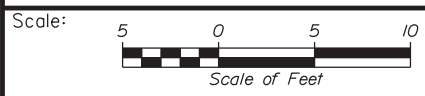
Date: 1/22/2018



2158+00.00



2157+50.00



Designed by:



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EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2157+50.00 TO STA. 2158+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

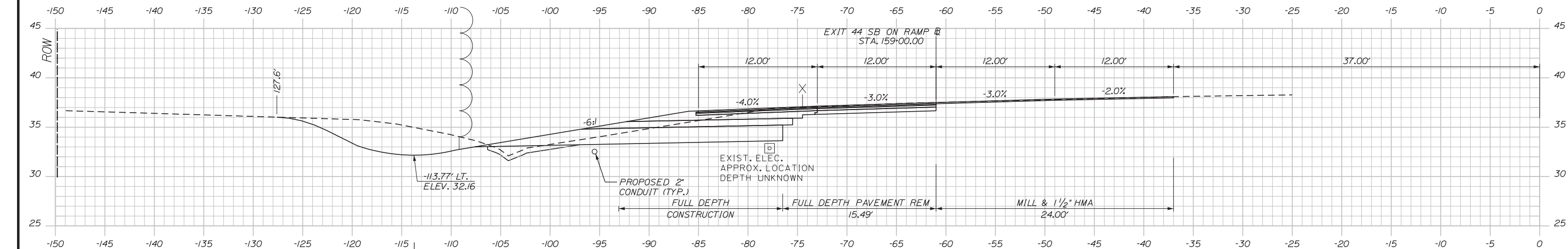
CONTRACT: 2018.03

SHEET NUMBER: XS-20

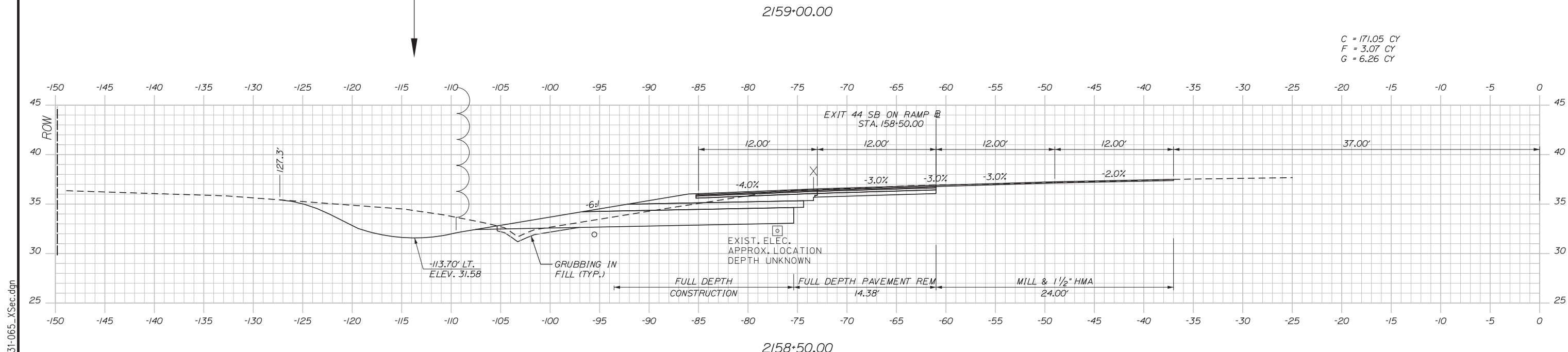
50 OF 64

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

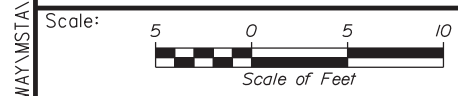
Date: 1/22/2018



C = 156.07 CY
F = 4.92 CY
G = 7.20 CY



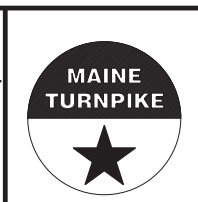
C = 171.05 CY
F = 3.07 CY
G = 6.26 CY



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date	Checked	By	Date
Designed	TFD	1\22\18		LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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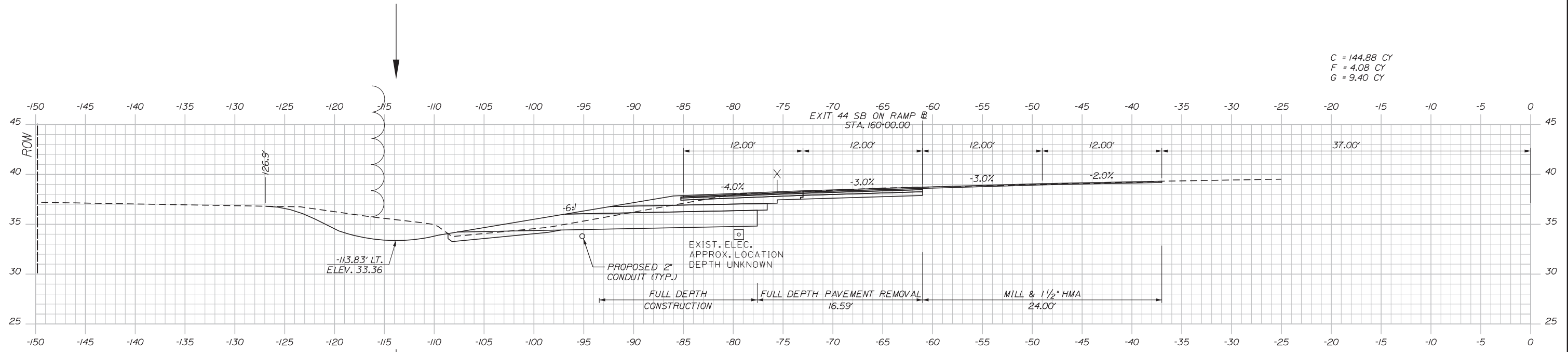


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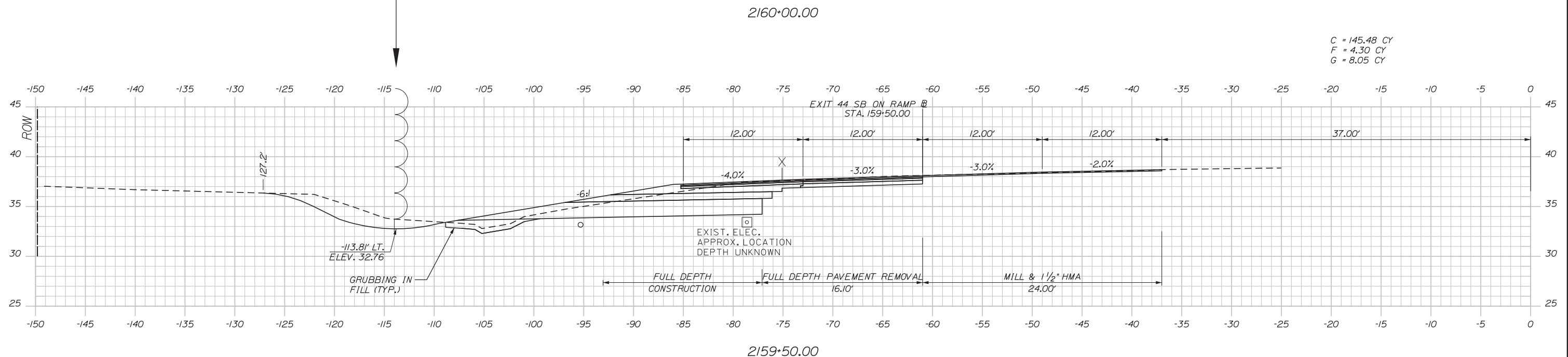
EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2158+50.00 TO STA. 2159+00.00

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018

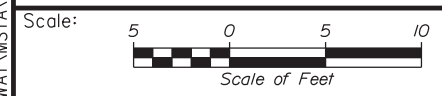


C = 144.88 CY
F = 4.08 CY
G = 9.40 CY



C = 145.48 CY
F = 4.30 CY
G = 8.05 CY

Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn



No.	Revision	By	Date

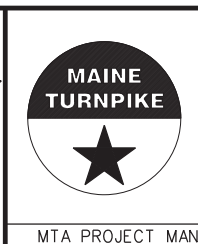
Designed by:

Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2159+50.00 TO STA. 2160+00.00

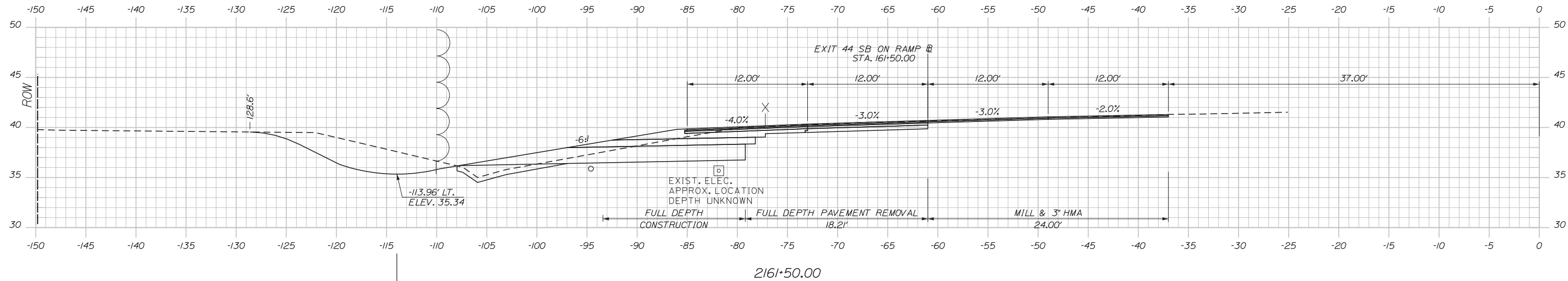
SHEET NUMBER: XS-22

CONTRACT: 2018.03

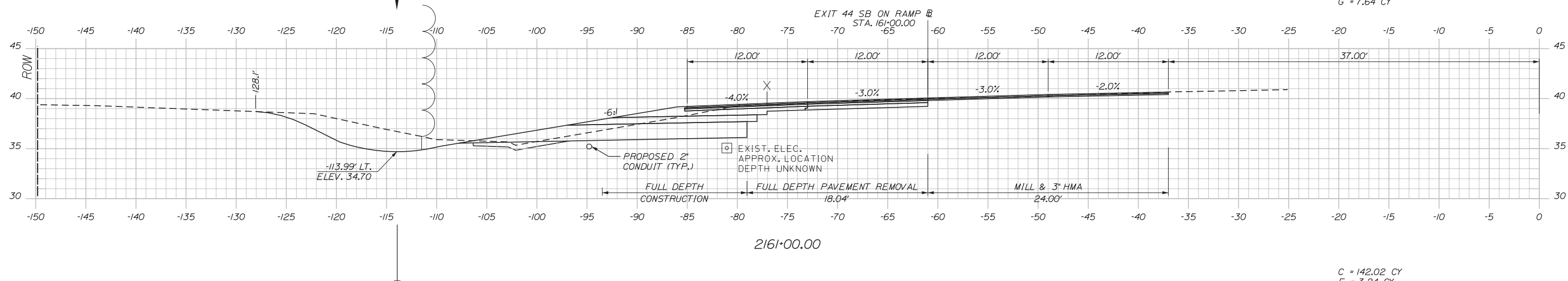
92 OF 64

C = 143.50 CY
 F = 8.68 CY
 G = 8.96 CY

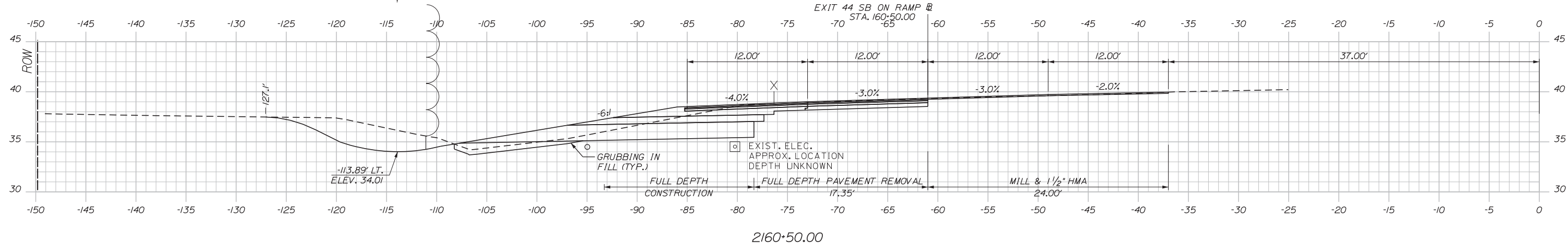
Date: 1/22/2018



C = 148.08 CY
 F = 4.31 CY
 G = 7.64 CY



C = 142.02 CY
 F = 3.24 CY
 G = 8.40 CY



Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

STANTEC CONSULTING SERVICES INC.
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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

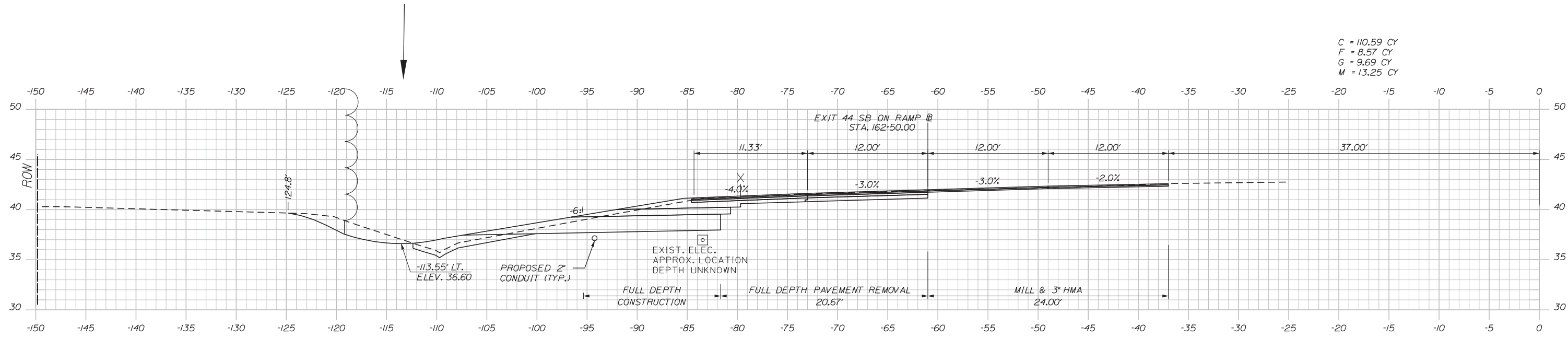
EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2160+50.00 TO STA. 2161+50.00

SHEET NUMBER: XS-23

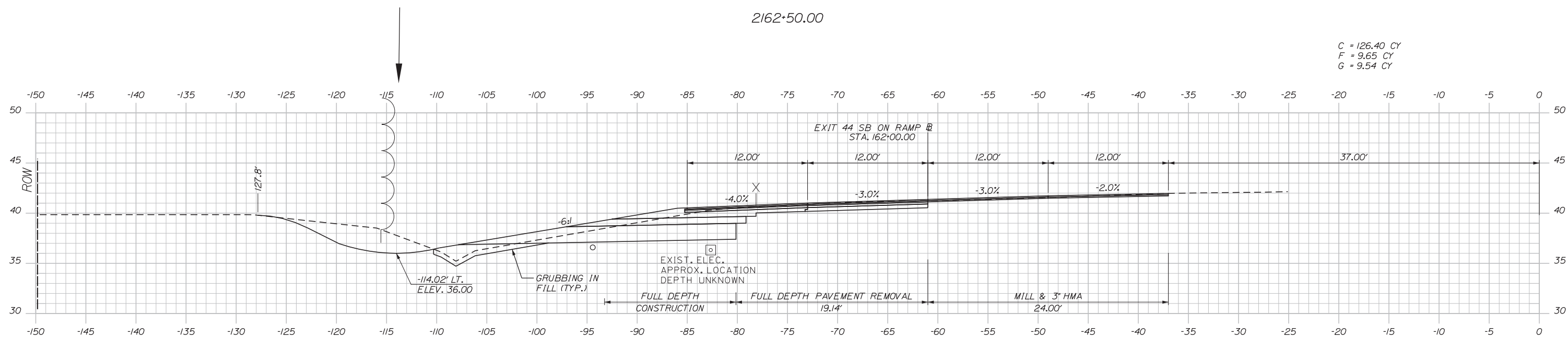
CONTRACT: 2018.03

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Date: 1/22/2018

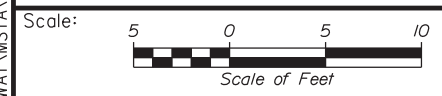


C = 110.59 CY
 F = 8.57 CY
 G = 9.69 CY
 M = 13.25 CY



C = 126.40 CY
 F = 9.65 CY
 G = 9.54 CY

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



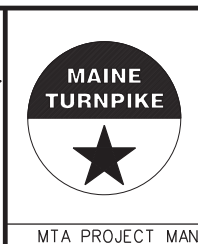
Designed by: **Stantec**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

By	Date	By	Date
Designed TFD	1\22\18	Checked LEM	1\22\18
Drawn PLP	1\22\18	In Charge of GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

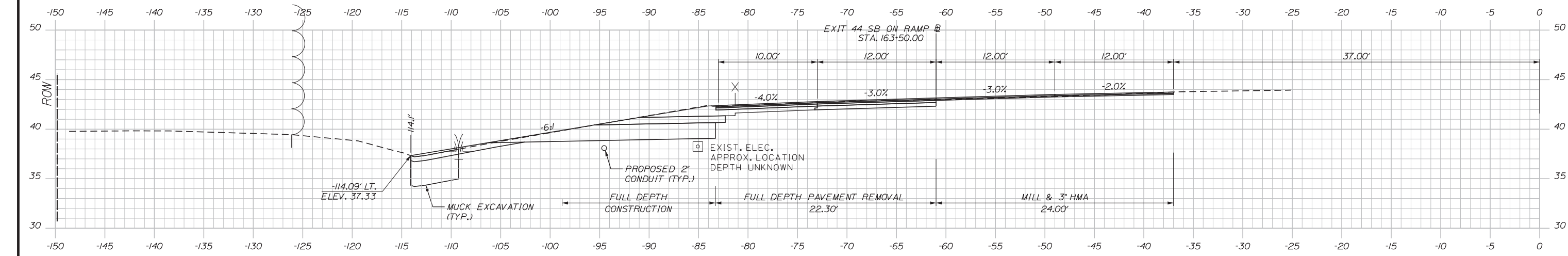
EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2162+00.00 TO STA. 2162+50.00

SHEET NUMBER: XS-24

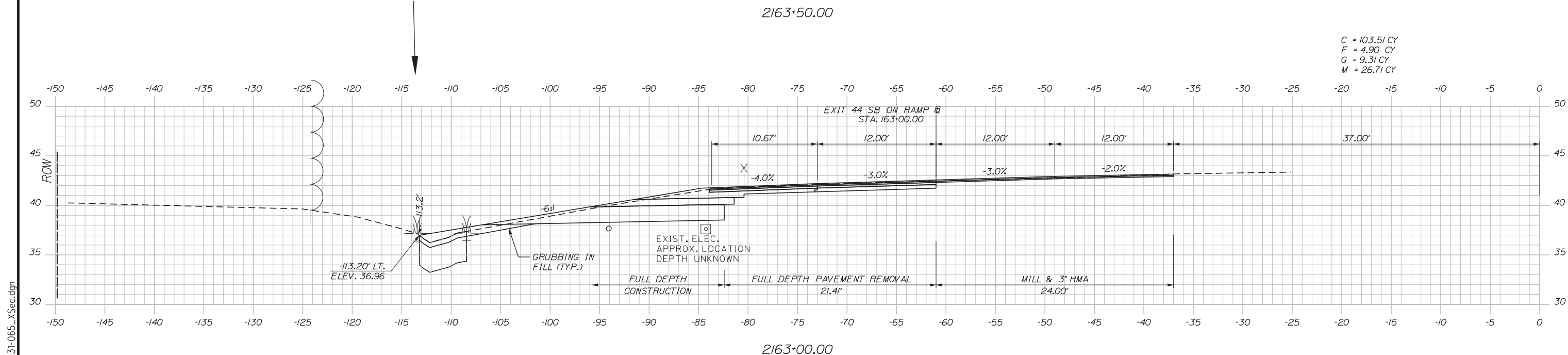
CONTRACT: 2018.03

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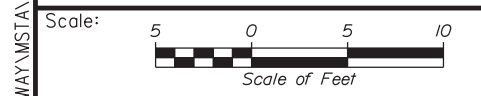
Date: 1/22/2018



C = 98.81 CY
 F = 1.22 CY
 G = 4.58 CY
 M = 13.46 CY



C = 103.51 CY
 F = 4.90 CY
 G = 9.31 CY
 M = 26.71 CY



Designed by: **Stantec**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2163+00.00 TO STA. 2163+50.00

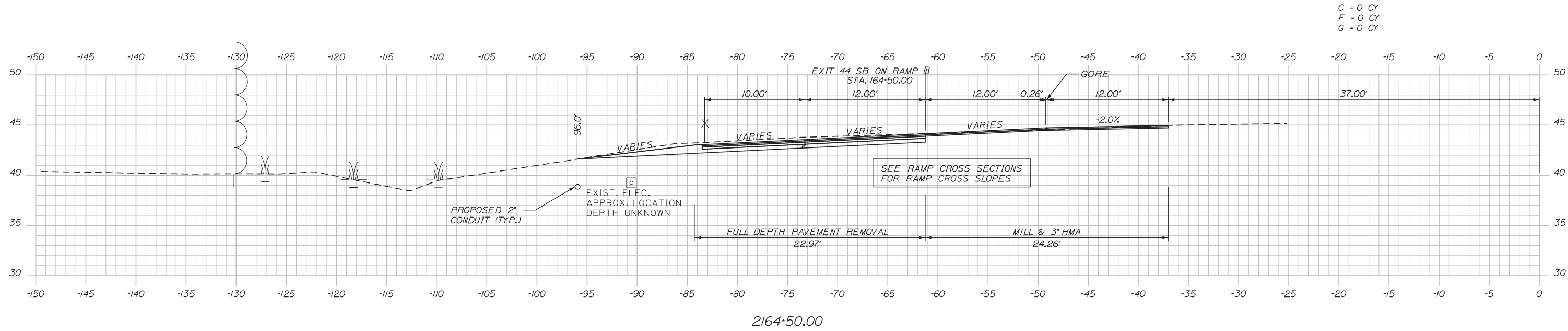
SHEET NUMBER: XS-25

CONTRACT: 2018.03

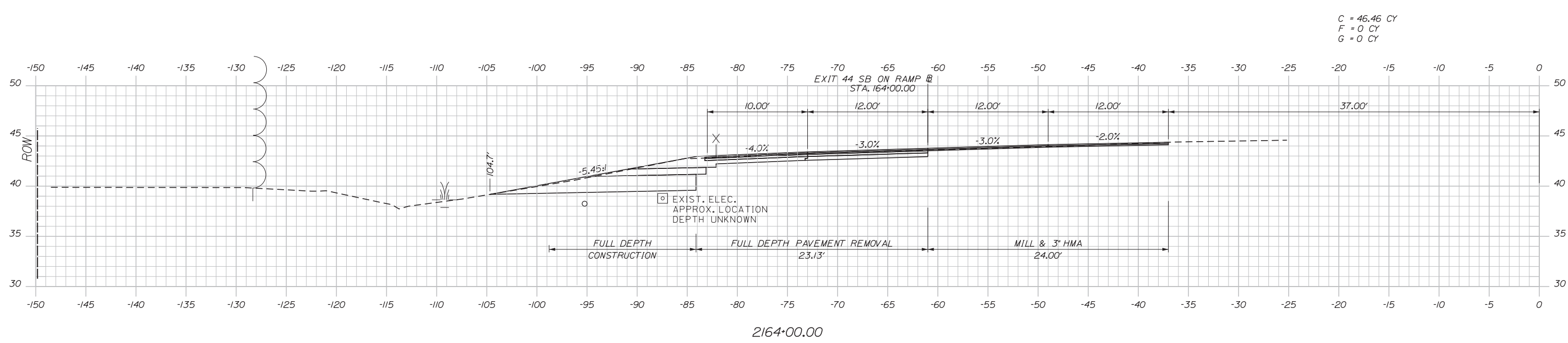
55 OF 64

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018



C = 0 CY
F = 0 CY
G = 0 CY



C = 46.46 CY
F = 0 CY
G = 0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2164+00.00 TO STA. 2164+50.00

SHEET NUMBER: XS-26

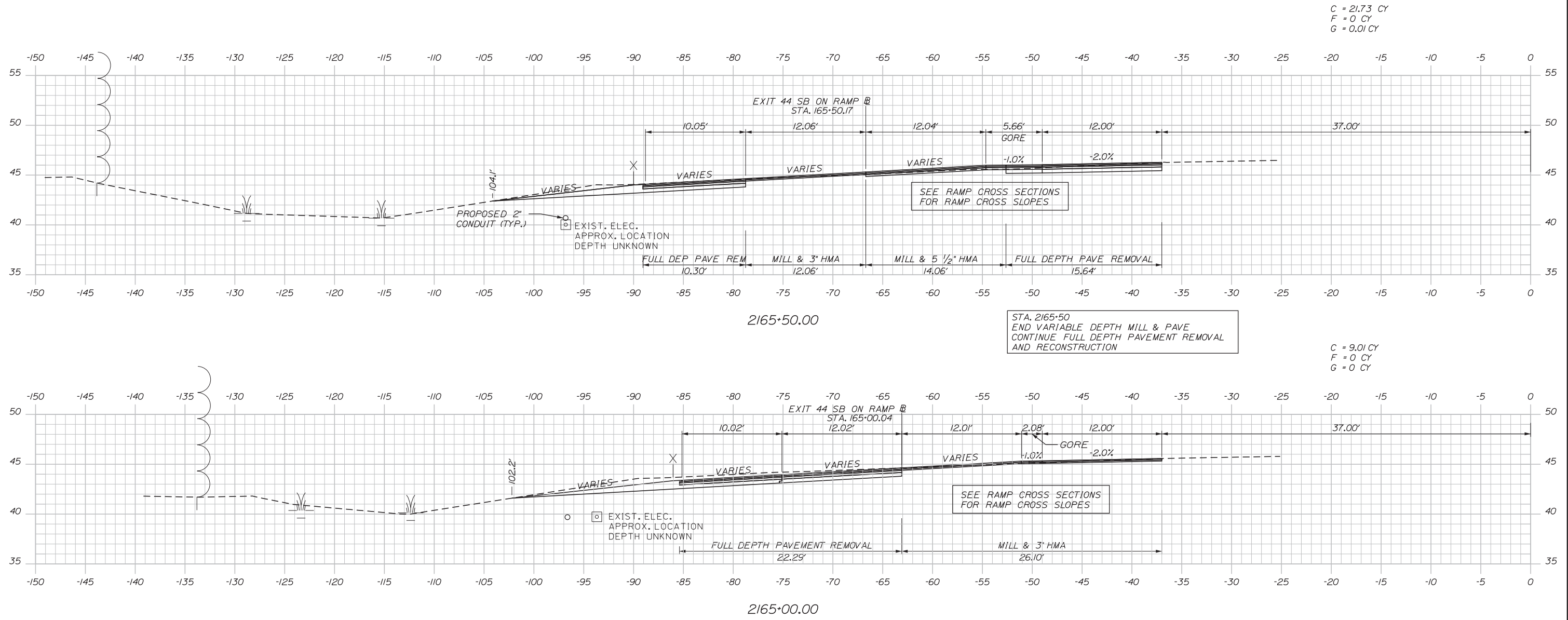
CONTRACT: 2018.03

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Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn

Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



C = 21.73 CY
F = 0 CY
G = 0.01 CY

C = 9.01 CY
F = 0 CY
G = 0 CY

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2165+00.00 TO STA. 2165+50.00

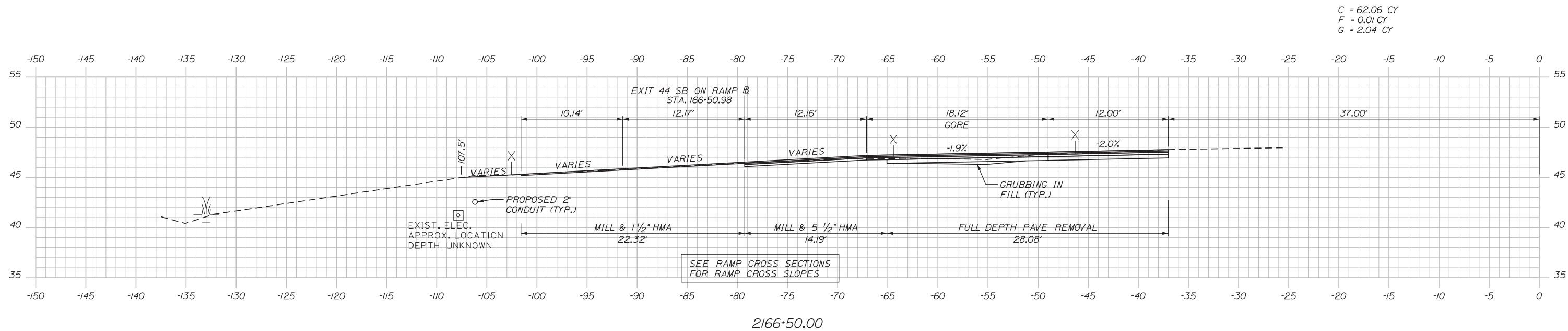
SHEET NUMBER: XS-27

CONTRACT: 2018.03

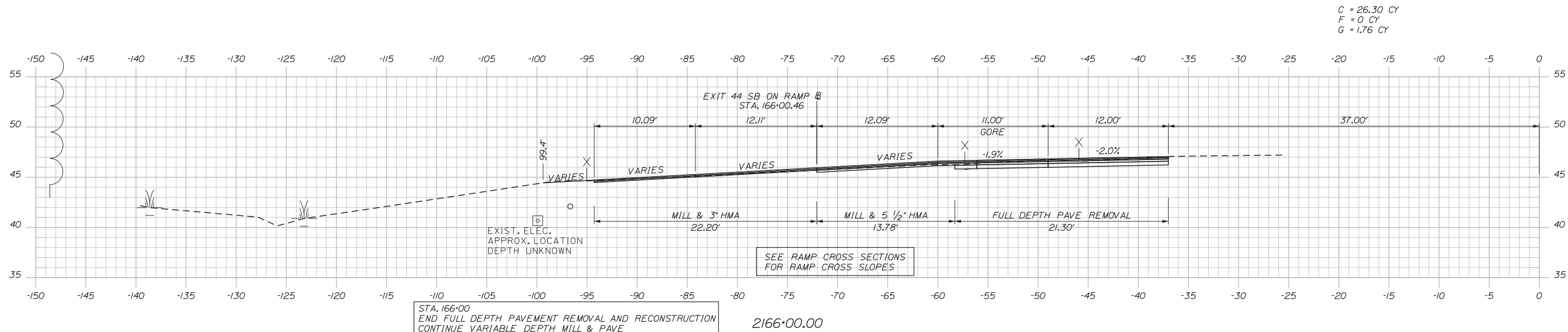
57 OF 64

Date: 1/22/2018

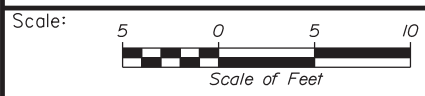
Filename: ... \HIGHWAY\MSTA\031-065_XSec.dgn



C = 62.06 CY
F = 0.01 CY
G = 2.04 CY



C = 26.30 CY
F = 0 CY
G = 1.76 CY



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EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 2166+00.00 TO STA. 2166+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

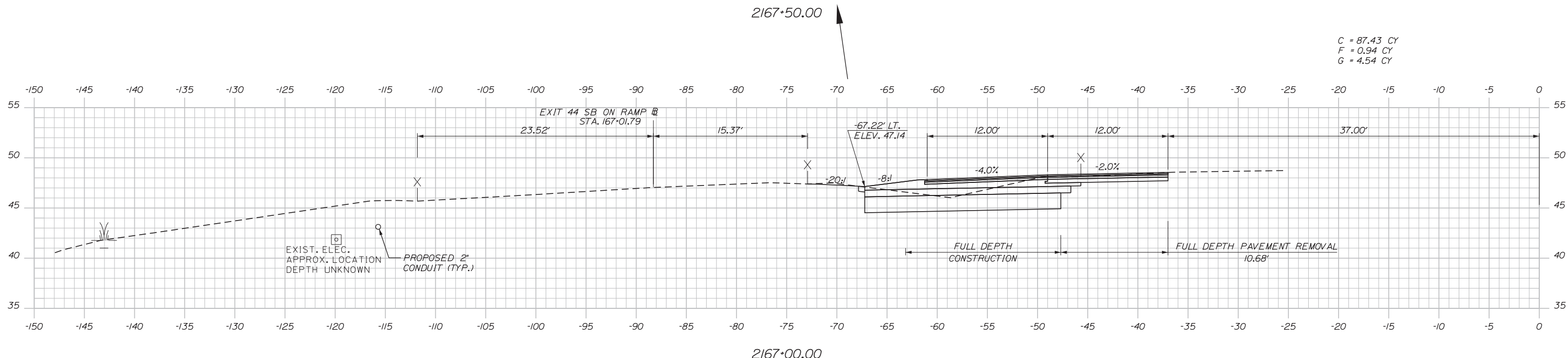
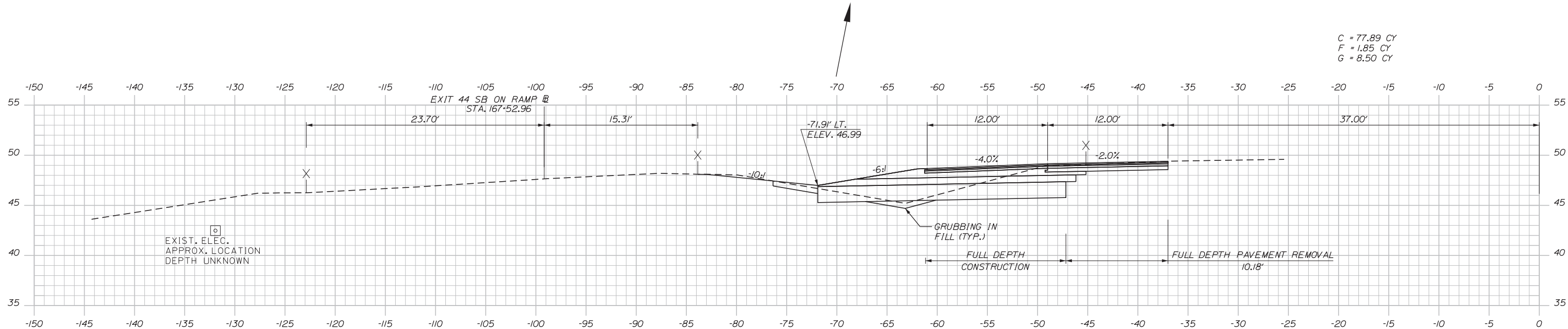
CONTRACT: 2018.03

SHEET NUMBER: XS-28

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Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



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**EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2167+00.00 TO STA. 2167+50.00**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE					
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

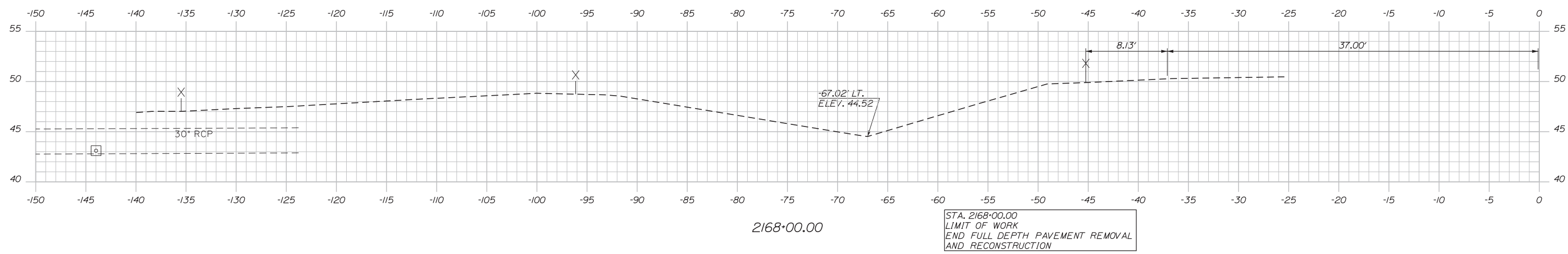
CONTRACT: 2018.03

SHEET NUMBER: XS-29

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Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 2168+00.00 TO STA. 2168+50.00

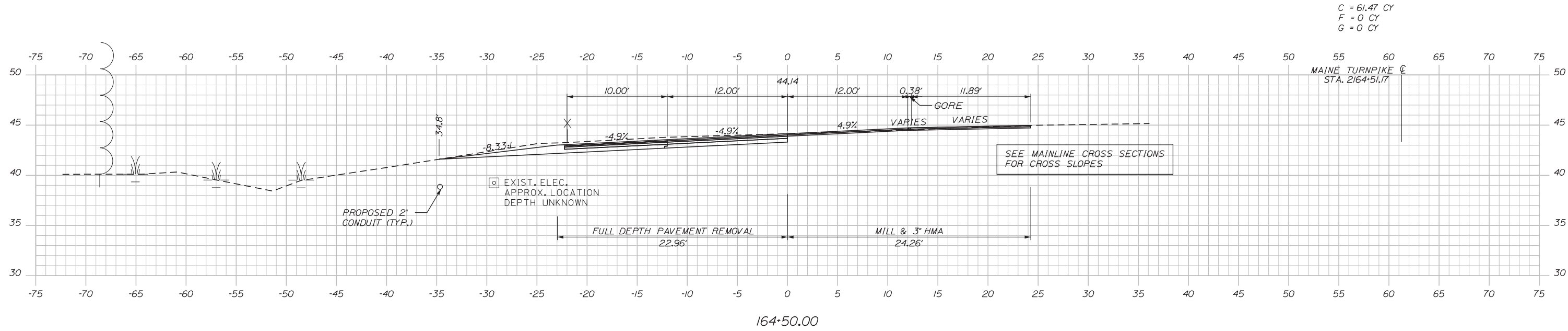
SHEET NUMBER: XS-30

CONTRACT: 2018.03

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Date: 1/22/2018

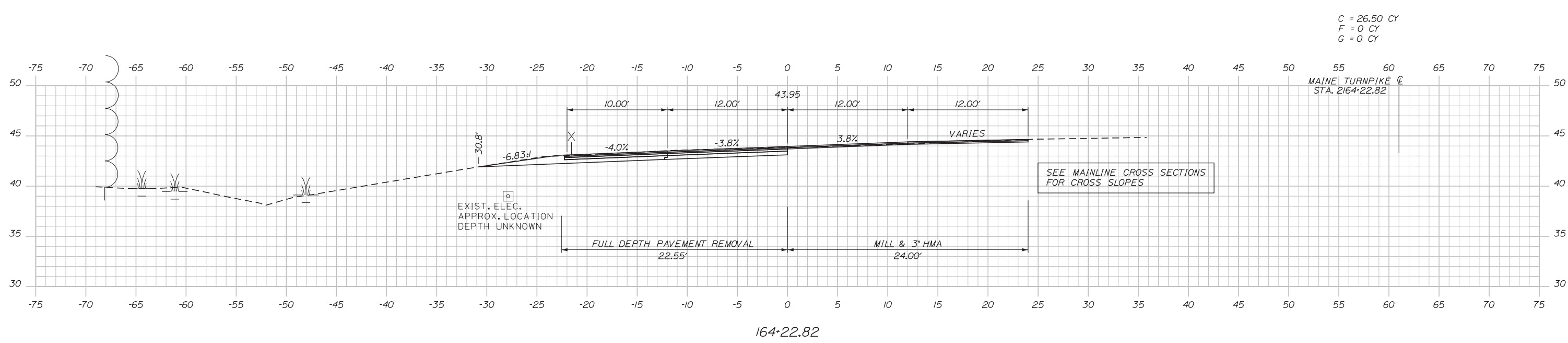
Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



C = 61.47 CY
F = 0 CY
G = 0 CY

MAINE TURNPIKE CL
STA. 2164+51.17

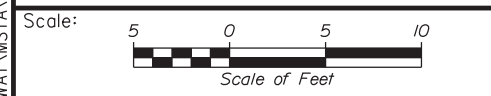
SEE MAINLINE CROSS SECTIONS FOR CROSS SLOPES



C = 26.50 CY
F = 0 CY
G = 0 CY

MAINE TURNPIKE CL
STA. 2164+22.82

SEE MAINLINE CROSS SECTIONS FOR CROSS SLOPES



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Stantec

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 164+22.82 TO STA. 164+50.00

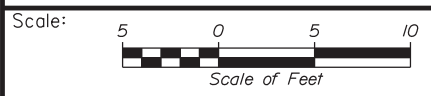
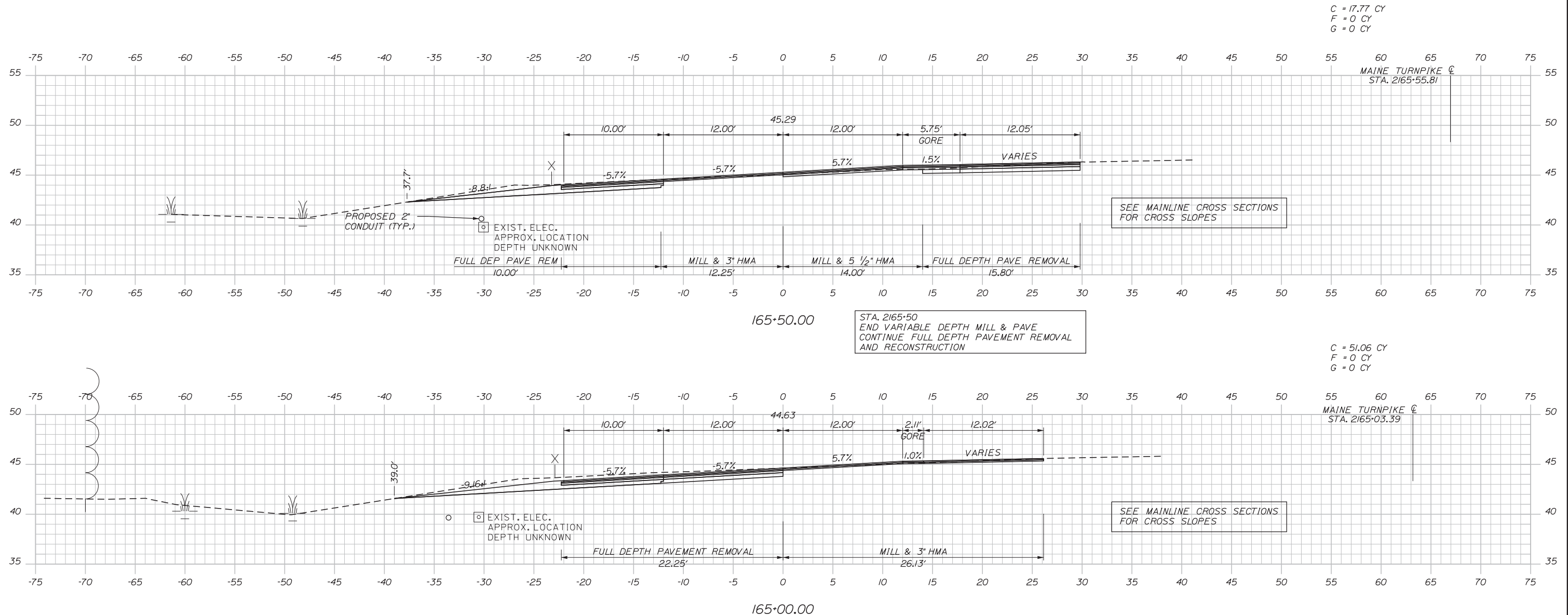
SHEET NUMBER: XS-31

CONTRACT: 2018.03

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Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 165+00.00 TO STA. 165+50.00

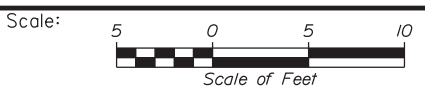
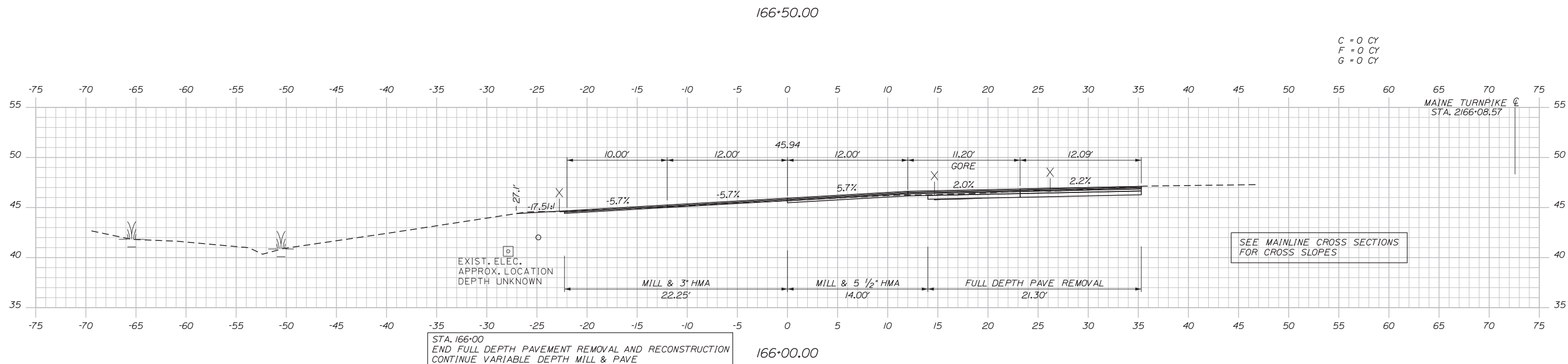
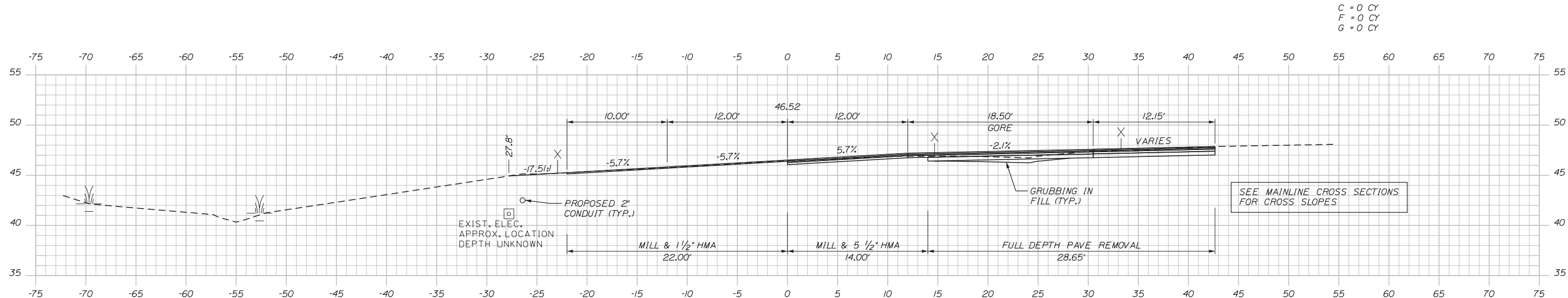
SHEET NUMBER: XS-32

CONTRACT: 2018.03

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Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 SOUTHBOUND ON RAMP IMPROVEMENTS
 STA. 166+00.00 TO STA. 166+50.00

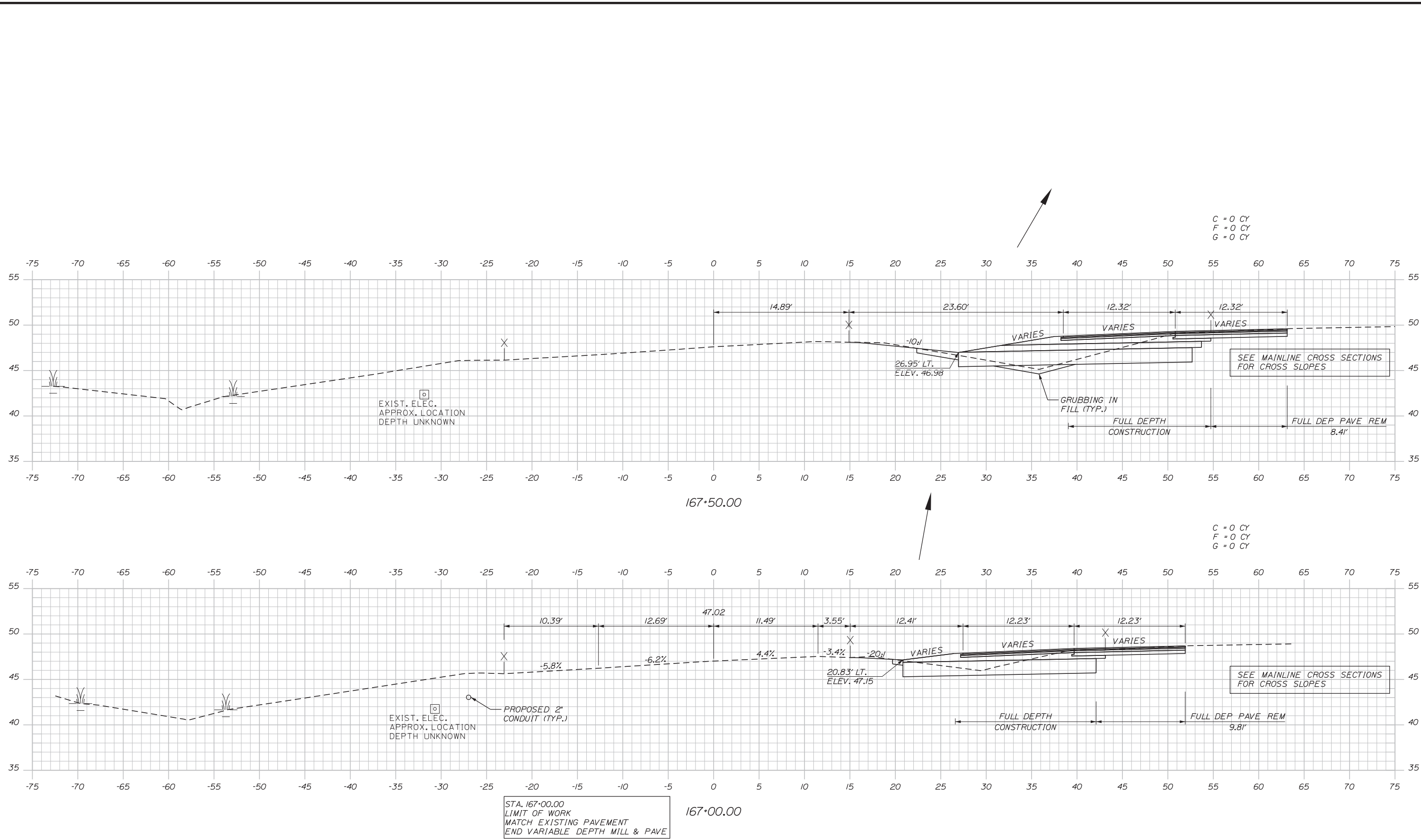
SHEET NUMBER: XS-33

CONTRACT: 2018.03

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Date: 1/22/2018

Filename: ...HIGHWAY\MSTA\031-065_XSec.dgn



C = 0 CY
F = 0 CY
G = 0 CY

C = 0 CY
F = 0 CY
G = 0 CY

SEE MAINLINE CROSS SECTIONS FOR CROSS SLOPES

SEE MAINLINE CROSS SECTIONS FOR CROSS SLOPES

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: GREG EDWARDS, PE

	By	Date		By	Date
Designed	TFD	1\22\18	Checked	LEM	1\22\18
Drawn	PLP	1\22\18	In Charge of	GAE	1\22\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
SOUTHBOUND ON RAMP IMPROVEMENTS
STA. 167+00.00 TO STA. 167+50.00

SHEET NUMBER: XS-34

CONTRACT: 2018.03

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