

Date: 5/14/2015

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Division: HIGHWAY

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THE GOLD STAR
MEMORIAL HIGHWAY

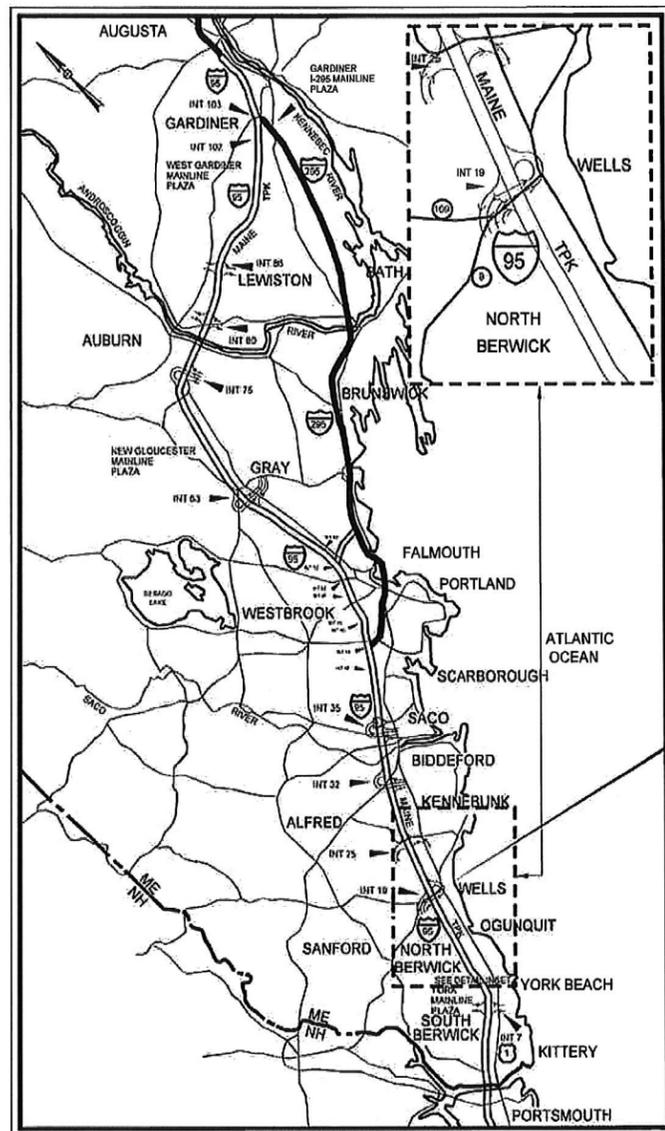
MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
JAMES F. CLOUTIER, VICE CHAIR
GERARD P. CONLEY, SR., MEMBER
JOHN E. DORITY, MEMBER
ROBERT D. STONE, MEMBER
FREEMAN R. GOODRICH, MEMBER
KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2015.05
INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP

CONTRACT 2015.05 INTERSECTION IMPROVEMENTS EXIT 19 OFF-RAMP



LOCATION MAP

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES AND GENERAL NOTES
3	TYPICAL SECTIONS
4	TEMPORARY TRAFFIC CONTROL DETAILS
5	MAINTENANCE OF TRAFFIC SIGN SUMMARY
6	PLAN
7	GEOMETRY
8	SIGNING AND STRIPING PLAN
9	SIGN SUMMARY
10	SIGNAL PLAN
11-15	CROSS SECTIONS
16	LIMITS OF DISTURBANCE PLAN

CONTRACT 2015.05

APPROVED: MAINE TURNPIKE AUTHORITY

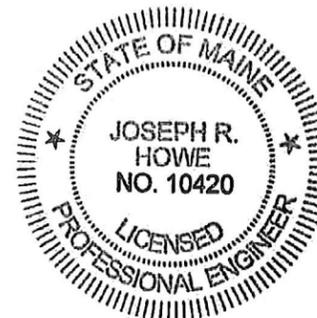
Peter S. Merfeld
PETER S. MERFELD, P.E.
CHIEF OPERATIONS OFFICER

5-14-15
DATE

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

5/14/15
DATE

TYLIN INTERNATIONAL



Joseph R. Howe
JOSEPH R. HOWE, P.E.
ENGINEER OF RECORD

5/14/15
DATE

Kevin S. Ducharme
KEVIN S. DUCHARME, P.E.
PROJECT MANAGER

5/14/2015
DATE

Date: 5/20/2015

Username:

Division: HIGHWAY

Filename: ... \MSTA\002_Civil_CNotes.dgn

T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
202.202	REMOVING PAVEMENT SURFACE	SY	380
203.20	COMMON EXCAVATION	CY	460
203.25	GRANULAR BORROW	CY	10
304.09	AGGREGATE BASE COURSE - CRUSHED	CY	120
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	300
403.207	HOT MIX ASPHALT, 19.0mm NOMINAL MAXIMUM SIZE	TON	130
403.208	HOT MIX ASPHALT, 12.5mm NOMINAL MAX. SIZE, SURFACE	TON	120
403.209	HOT MIX ASPHALT, 9.5mm NOMINAL MAX. SIZE (ISLANDS)	TON	15
403.211	HOT MIX ASPHALT (SHIMMING)	TON	50
403.213	HOT MIX ASPHALT, 12.5mm NOMINAL MAX. SIZE, BASE	TON	100
409.15	BITUMINOUS TACK COAT, APPLIED	G	100
419.30	FULL DEPTH BITUMINOUS SAWCUT	LF	830
604.09	CATCH BASIN TYPE B1	EA	1
604.164	REBUILDING CATCH BASIN	EA	1
604.246	CATCH BASIN TYPE F5	EA	1
605.11	12" UNDERDRAIN TYPE C	LF	200
609.11	VERTICAL CURB TYPE 1	LF	110
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	LF	91
609.234	TERMINAL CURB TYPE 1 - 4'	EA	2
609.34	CURB TYPE 5	LF	60
609.40	RESET CURB TYPE 5	LF	330
615.07	LOAM	CY	11
618.1401	SEEDING METHOD NO. 2, PLAN QUANTITY	UNIT	1
618.15	TEMPORARY SEEDING	LB	3
619.1201	MULCH, PLAN QUANTITY	UNIT	1
619.1202	TEMPORARY MULCH	LS	1
626.32	24" FOUNDATION	EA	2
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	LF	51
627.68	TEMP. 4" PAINTED PAVEMENT MARKING LINE - YELLOW OR WHITE	LF	2300
627.682	TEMP. 12" PAINTED PAVEMENT MARKING LINE, WHITE	LF	310
627.712	4" WHITE OR YELLOW PAVEMENT MARKING LINE	LF	1500
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	SF	330
627.94	PAVEMENT MARKING TAPE	LF	34
629.05	HAND LABOR - STRAIGHT TIME	HR	30
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	30
631.172	TRUCK, LARGE (INCLUDING OPERATOR)	HR	30
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR	4
631.36	FOREMAN	HR	30
643.712	PREEMPTIVE SYSTEM	LS	1
643.80	TRAFFIC SIGNAL MODIFICATIONS AT EXIT 19 & SANFORD ROAD	LS	1
643.90	VIDEO DETECTION SYSTEM	LS	1
643.93	STRAIN POLE	EA	2
645.105	REMOVE AND STACK SIGN	EA	3
645.109	REMOVE AND RESET SIGN	EA	10
645.251	ROADWAY GUIDE SIGNS, TYPE I	SF	110
645.289	STEEL H-BEAM POLES	LB	720
645.292	REGULATORY, WARNING, CONFIRMATION & ROUTE MARKER ASSEMBLY SIGNS TYPE II	SF	50
652.30	FLASHING ARROW BOARD	EA	2
652.33	DRUM	EA	30
652.34	CONE	EA	30
652.35	CONSTRUCTION SIGNS	SF	460
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	1
652.38	FLAGGERS	HR	200

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
656.632	30' TEMPORARY SILT FENCE	LF	280
659.10	MOBILIZATION	LS	1
COMMON EXCAVATION FOR ESTIMATE			
COMMON EXCAVATION (FROM CROSS SECTIONS) 453			
TOTAL COMMON EXCAVATION 453			
FILL FOR BORROW CALCULATIONS			
COMMON FILL (FROM CROSS SECTIONS) 8			
TOTAL FILL 8			
ROCK EXCAVATION FOR ESTIMATE			
ROCK EXCAVATION (FROM CROSS SECTIONS) 0			
TOTAL ROCK EXCAVATION 0			
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS			
(1) TOTAL COMMON EXCAVATION 453			
DEDUCTIONS:			
GRUBBING IN CUT 26			
PAVEMENT SALVAGE IN FILL 0			
PAVEMENT SALVAGE IN CUT 185			
(2) TOTAL DEDUCTIONS 211			
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2) 242			
TOTAL AVAILABLE STRUCT. EXCAVATION (UNDERDRAIN ONLY) 73			
TOTAL AVAILABLE NON-ROCK EXCAVATION 315			
COMPUTATION OF WASTE STORAGE AND WASTE MATERIAL			
TOTAL AVAILABLE WASTE STORAGE AREA (FROM CROSS SECTIONS) 0			
GRUBBING IN CUT 26			
TOTAL WASTE MATERIAL TO BE UTILIZED = SMALLER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL 0			
TOTAL WASTE MATERIAL TO BE WASTED = TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED 26			
COMPUTATION OF GRANULAR BORROW FOR ESTIMATE			
GRANULAR BORROW TO REPLACE MUCK 0			
GRANULAR BORROW IN LOW WET AREAS 0			
GRANULAR BORROW TO UPGRADE EXCAVATION 0			
GRANULAR BORROW TO MAINTAIN TRAFFIC 10			
TOTAL GRANULAR BORROW 10			
COMPUTATION OF COMMON BORROW FOR ESTIMATE			
(3) TOTAL FILL 8			
TOTAL AVAIL. NON-ROCK EXCAVATION 315 x 0.85 = 268			
TOTAL AVAIL. ROCK EXCAVATION 0 x 1.33 = 0			
TOTAL AVAIL. STR. EARTH EXCAVATION 0 x 0.85 = 0			
TOTAL AVAIL. STR. ROCK EXCAVATION 0 x 1.33 = 0			
TOTAL WASTE MATL. TO BE UTILIZED 0 x 1.00 = 0			
(4) TOTAL AVAILABLE EXCAVATION 268			
TOTAL SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL PLUS WASTE MATERIAL TO BE WASTED 286			

GENERAL

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2002 MAINE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND THE MAINE DEPARTMENT OF TRANSPORTATION'S 2002 STANDARD DETAILS HIGHWAYS & BRIDGES WITH UPDATES UNLESS OTHERWISE NOTED OR INCLUDED IN THESE PLANS.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE ROADS DURING CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED STAGING AREA(S) TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.

UTILITY

- THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
CENTRAL MAINE POWER CO.
FAIRPOINT COMMUNICATIONS
TIME WARNER CABLE
NORTHERN UTILITIES, INC. (UNITIL)
WELLS SANITARY DISTRICT
MAINE TURNPIKE AUTHORITY
- NO UTILITY ADJUSTMENTS ARE ANTICIPATED.
- 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 REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF WORK.
- 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. EXCAVATING 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 SMART MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

EARTHWORK

- ALL WASTE MATERIAL SHALL BE DISPOSED OF OFF THE PROJECT IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
- 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).

PAVING

- ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
- ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
- HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.

EROSION CONTROL

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL LATEST EDITION UNLESS OTHERWISE NOTED OR INCLUDED IN THESE PLANS.
- 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.
- FOUR (4) INCHES OF LOAM HAS BEEN ESTIMATED FOR ALL DISTURBED SLOPE AREAS UNLESS OTHERWISE NOTED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
- NEWLY DISTURBED EARTH SHALL BE MULCHED BY THE END OF EACH WORK DAY. MULCH SHALL BE MAINTAINED ON A DAILY BASIS. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.1202 - TEMPORARY MULCH
- TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS, AND WILL BE PAID UNDER ITEM 618.15 - TEMPORARY SEEDING.

DRAINAGE

- ANY EXISTING CULVERTS THAT REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 - CULVERT CLEANER (INCLUDING OPERATOR).
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO THE 604 ITEMS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevin S. Ducharme

	By	Date		By	Date
Designed	JRH	5/2015	Checked	JRH	5/2015
Drawn	PJB	5/2015	In Charge of	KSD	5/2015

T.Y. Lin International
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THE GOLD STAR MEMORIAL HIGHWAY

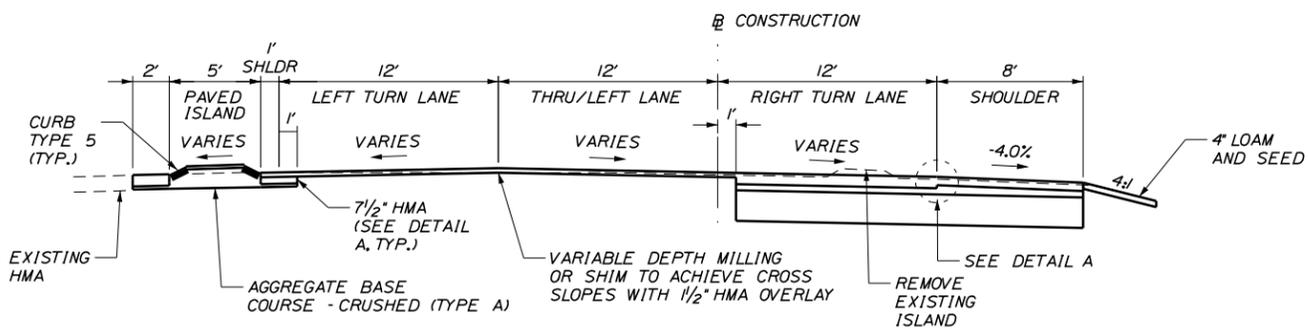
MTA PROJECT MANAGER: Ralph Norwood

INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP

ESTIMATED QUANTITIES
& GENERAL NOTES

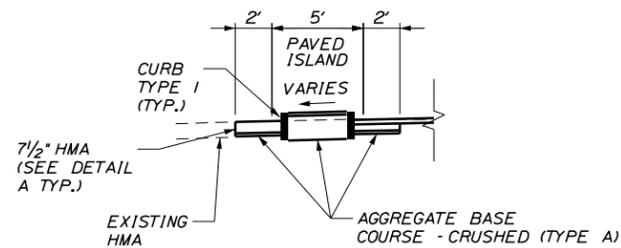
SHEET NUMBER:
CONTRACT: 2015.05

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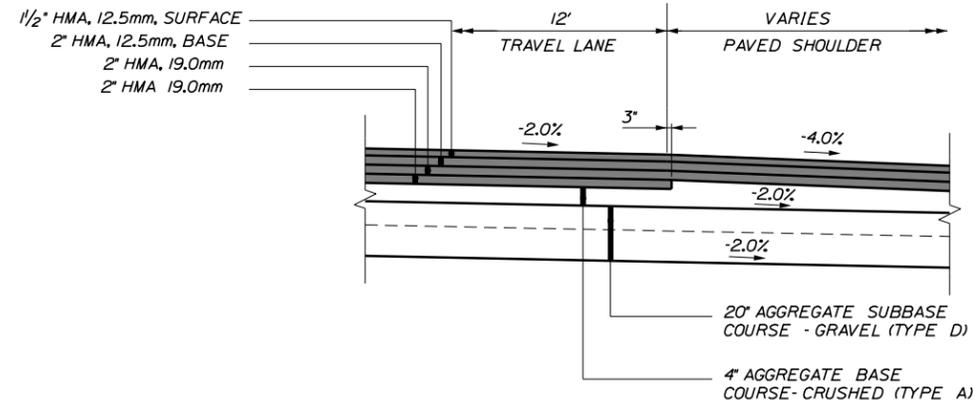
OFF-RAMP PAVEMENT MILLING, OVERLAY, AND WIDENING

STATION 10+50 - 13+00



MEDIAN ISLAND

STATION 10+00 - 10+42



DETAIL A

N.T.S.

NOTES:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR BOTH NORMAL AND SUPERELEVATED SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEL LANE CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
4. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

Scale: NOT TO SCALE

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CONSULTANT PROJECT MANAGER: Kevin S. Ducharme

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Drawn	SPA	5/2015	In Charge of	KSD	5/2015

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

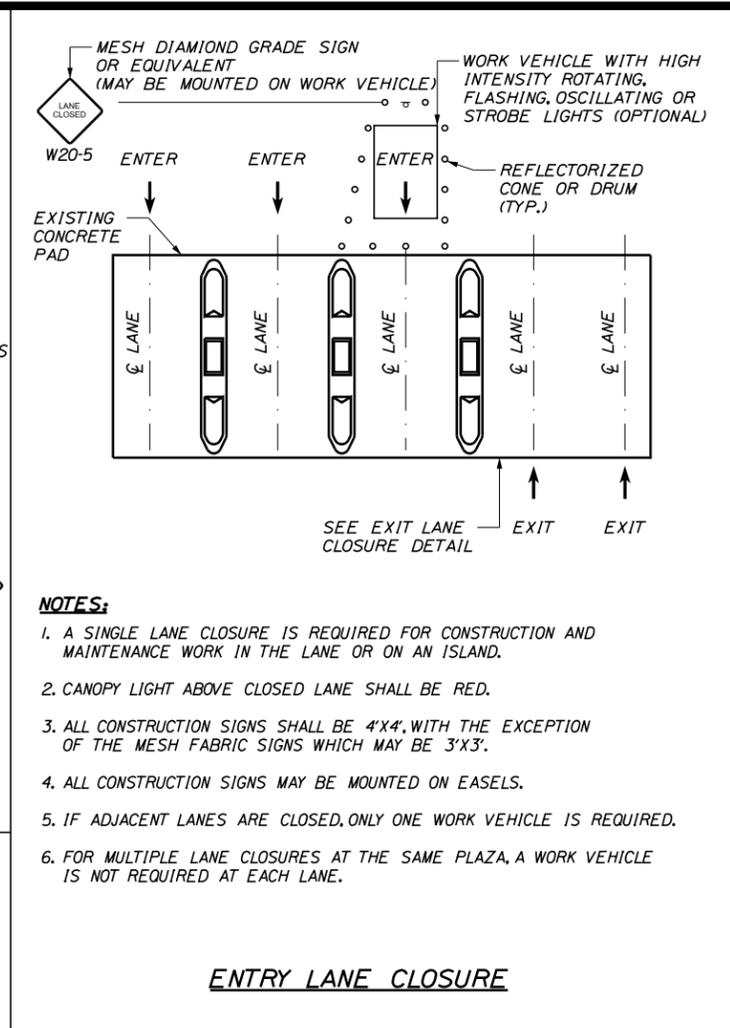
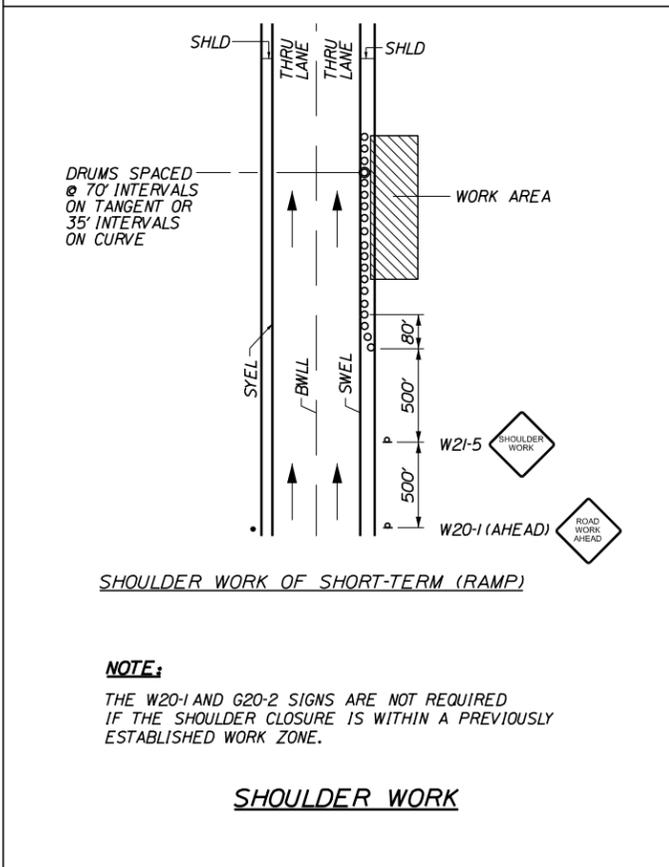
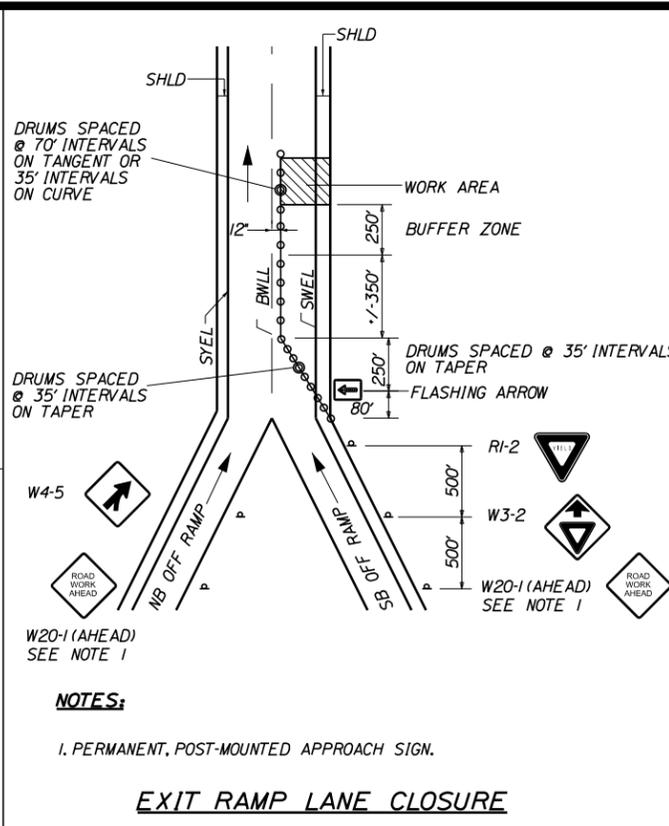
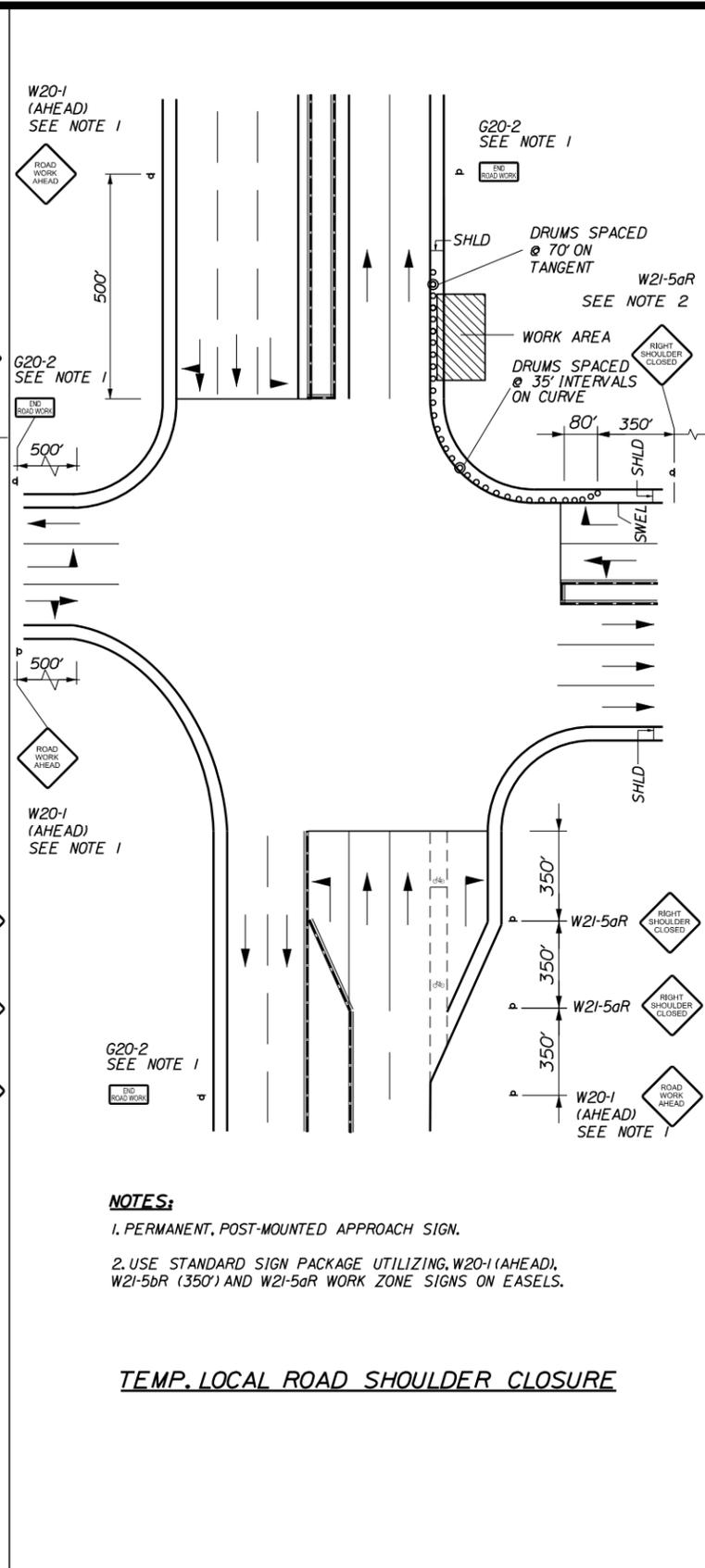
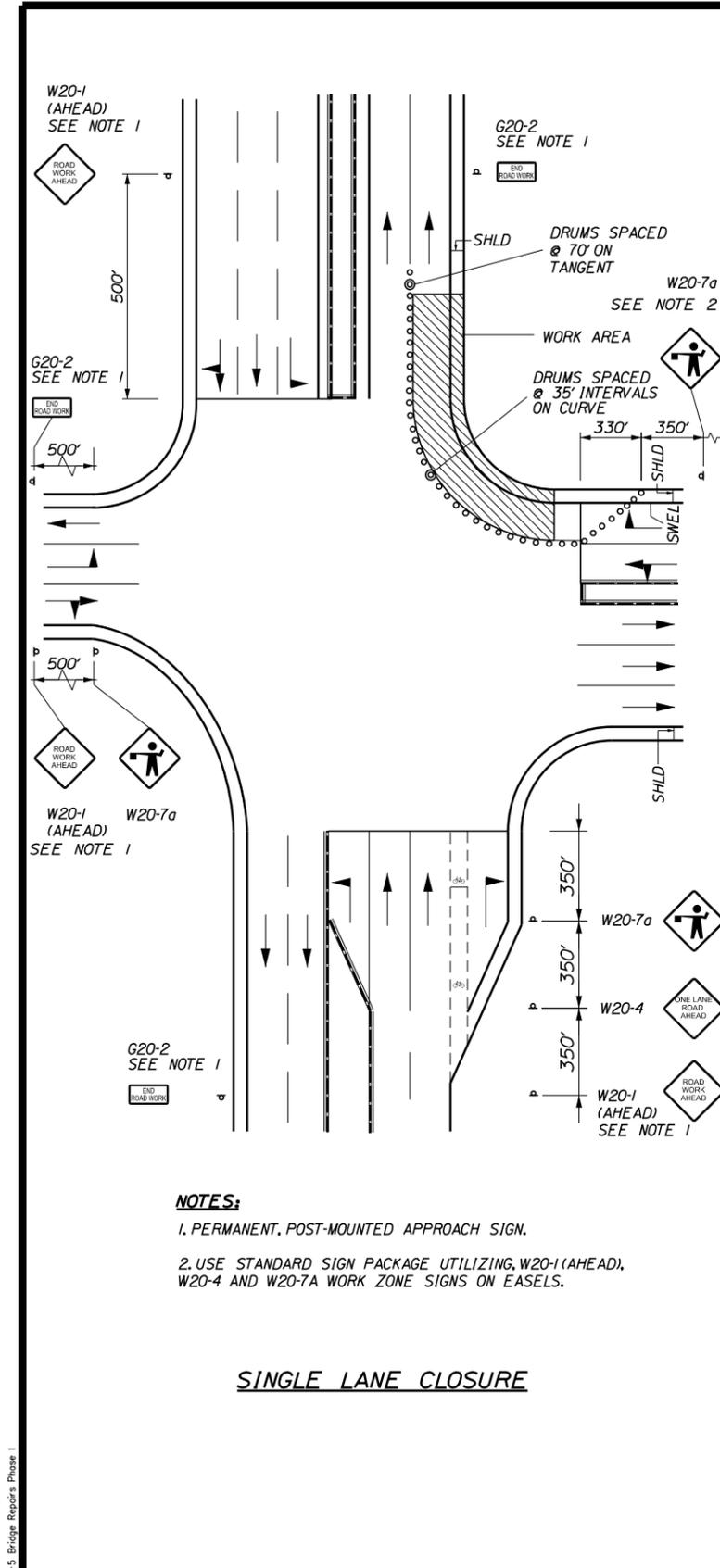
**INTERSECTION IMPROVEMENTS
 EXIT 19 OFF-RAMP**

TYPICAL SECTIONS

CONTRACT: 2015.05

SHEET NUMBER:

3 OF 16



GENERAL MAINTENANCE OF TRAFFIC NOTES:

- ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION. NOTE THERE IS A 2009 EDITION OF MUTCD.
- THESE PLANS SHOW THE GENERAL CONDITION FOR 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.

ABBREVIATIONS FOR ALL M.O.T. PLANS:
 BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE EDGE LINE
 SYEL = SOLID YELLOW EDGE LINE
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE
 TSWEL = TEMPORARY SOLID WHITE EDGE LINE
 TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Scale: NOT TO SCALE

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

INTERSECTION IMPROVEMENTS
 EXIT 19 OFF-RAMP

TEMPORARY TRAFFIC CONTROL DETAILS

SHEET NUMBER:
 CONTRACT: 2015.05
 4 OF 16

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
G20-2	48"	24"	END ROAD WORK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			6	ORANGE	BLACK		8.00 (48)	
RI-2	36"	36"	YIELD				1	RED	WHITE		9.00 (9)	
W3-2	48"	48"					1	ORANGE	BLACK		16.00 (16)	
W4-5	48"	48"					1	ORANGE	BLACK		16.00 (16)	
W8-11	48"	48"	UNEVEN LANES				2	ORANGE	BLACK		16.00 (32)	
W8-15	48"	48"	GROOVED PAVEMENT				2	ORANGE	BLACK		16.00 (32)	
W8-15P	30"	24"					2	ORANGE	BLACK		5.00 (10)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-1 (AHEAD)	48"	48"	ROAD WORK AHEAD	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			5	ORANGE	BLACK		16.00 (80)	
W20-4	48"	48"	ONE LANE ROAD AHEAD				2	ORANGE	BLACK		16.00 (32)	
W20-5	48"	48"	LANE CLOSED				1	ORANGE	BLACK		16.00 (16)	
W20-7a	48"	48"					3	ORANGE	BLACK		16.00 (48)	
W21-5	48"	48"	SHOULDER WORK				1	ORANGE	BLACK		16.00 (16)	
W21-5aR (RIGHT)	48"	48"	RIGHT SHOULDER CLOSED				4	ORANGE	BLACK		16.00 (64)	
W21-5bR (RIGHT)	48"	48"	RIGHT SHOULDER CLOSED AHEAD				2	ORANGE	BLACK		16.00 (32)	

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP

MAINTENANCE OF TRAFFIC
SIGN SUMMARY

SHEET NUMBER:
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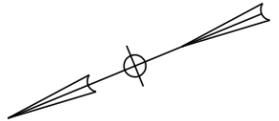
5 OF 16

Date: 5/20/2015

Username:

Filename: ... \HIGHWAY\MSTA006_HDPLAN_01.DGN Division: HIGHWAY

T:\Main\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I



609.11 - VERTICAL CURB TYPE 1

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
10-01.9	30.7' LT		10-06.22	29.00' LT	4.6'
10-01.9	32.6' LT		10-06.37	34.00' LT	4.6'
10-06.22	29.00' LT		10-39.89	27.78' LT	33.25'
10-06.37	34.00' LT		10-40.08	32.78' LT	33.25'
12-30.29	20.00' RT		12-44.53	20.00' RT	14.34'
12-91.37	87.12' RT		12-93.72	71.87' RT	15.42'

609.12 - VERTICAL CURB TYPE 1 - CIRCULAR

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
10-01.9	30.7' LT		10-01.9	32.6' LT	2.45'
10-39.89	27.78' LT		10-40.08	32.78' LT	7.85'
12-44.53	20.00' RT		12-93.19	58.51' RT	66.94'
12-93.19	58.51' RT		12-93.72	71.87' RT	13.46'

609.234 - TERMINAL CURB TYPE 1 - 4'

STATION	OFFSET	TO	STATION	OFFSET
12-26.22	20.00' RT		12-30.29	20.00' RT
12-90.76	91.07' RT		12-91.37	87.12' RT

609.34 - CURB TYPE 5

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
12-27.85	30.00' LT		12-87.01	30.00' LT	59.14'

609.40 - RESET CURB TYPE 5

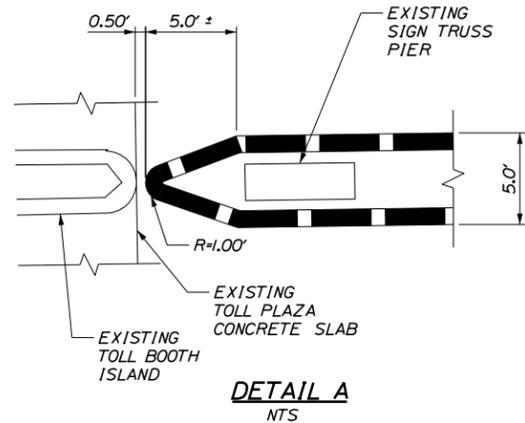
STATION	OFFSET	TO	STATION	OFFSET	LENGTH
11-02.53	30.00' LT		11-02.53	25.00' LT	7.85'
11-02.53	25.00' LT		12-87.01	25.00' LT	183.10'
11-02.53	30.00' LT		12-27.85	30.00' LT	123.68'
12-87.01	30.00' LT		12-87.01	25.00' LT	7.85'

656.632 - TEMPORARY SILT FENCE

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
11-33	RT		12-91	RT	206'
13-18	LT		13-37	LT	73'

618.1401 - SEEDING METHOD NUMBER 2, PLAN QUANTITY

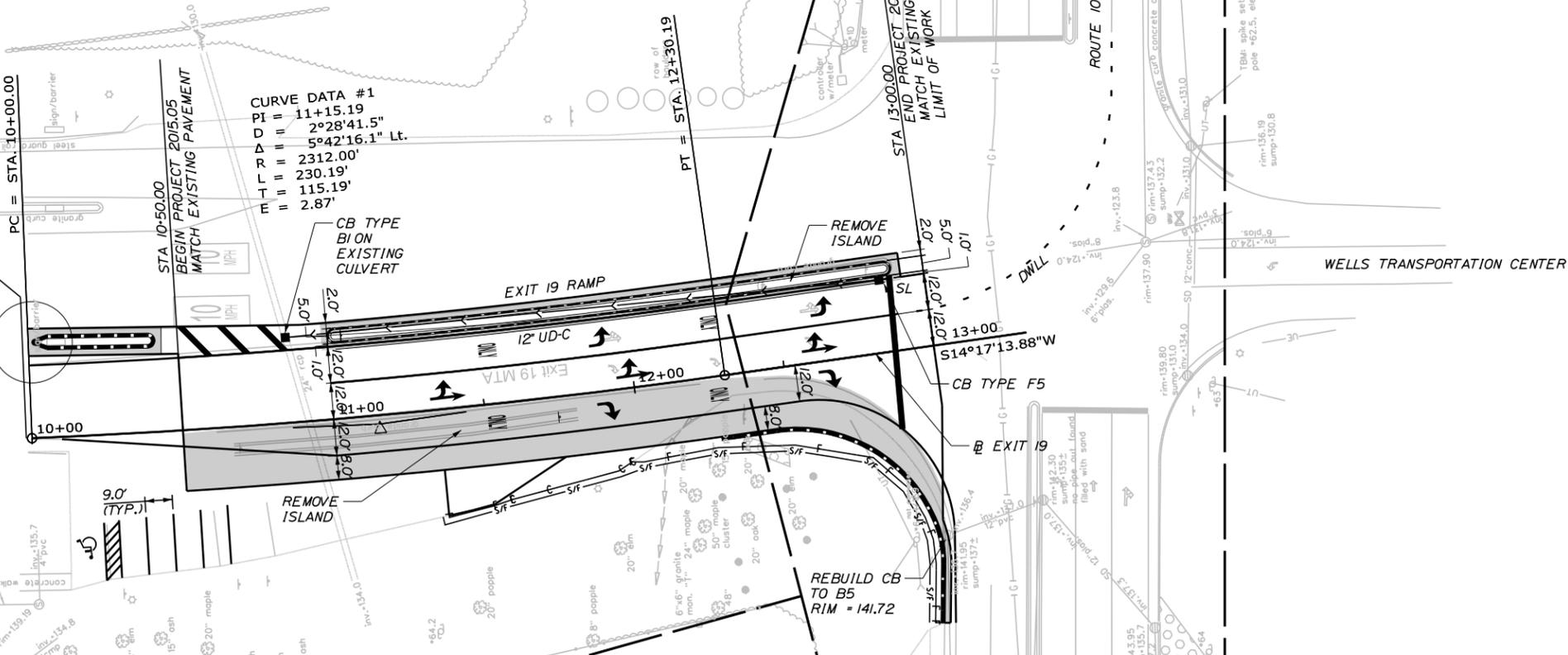
STATION	OFFSET	TO	STATION	OFFSET
11-35	RT		12-91	RT



DETAIL A
NTS

LEGEND

■ FULL DEPTH PAVEMENT



Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevin S. Ducharme

	By	Date	By	Date	
Designed	JRH	5/2015	Checked	JRH	5/2015
Drawn	PJB	5/2015	In Charge of	KSD	5/2015

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

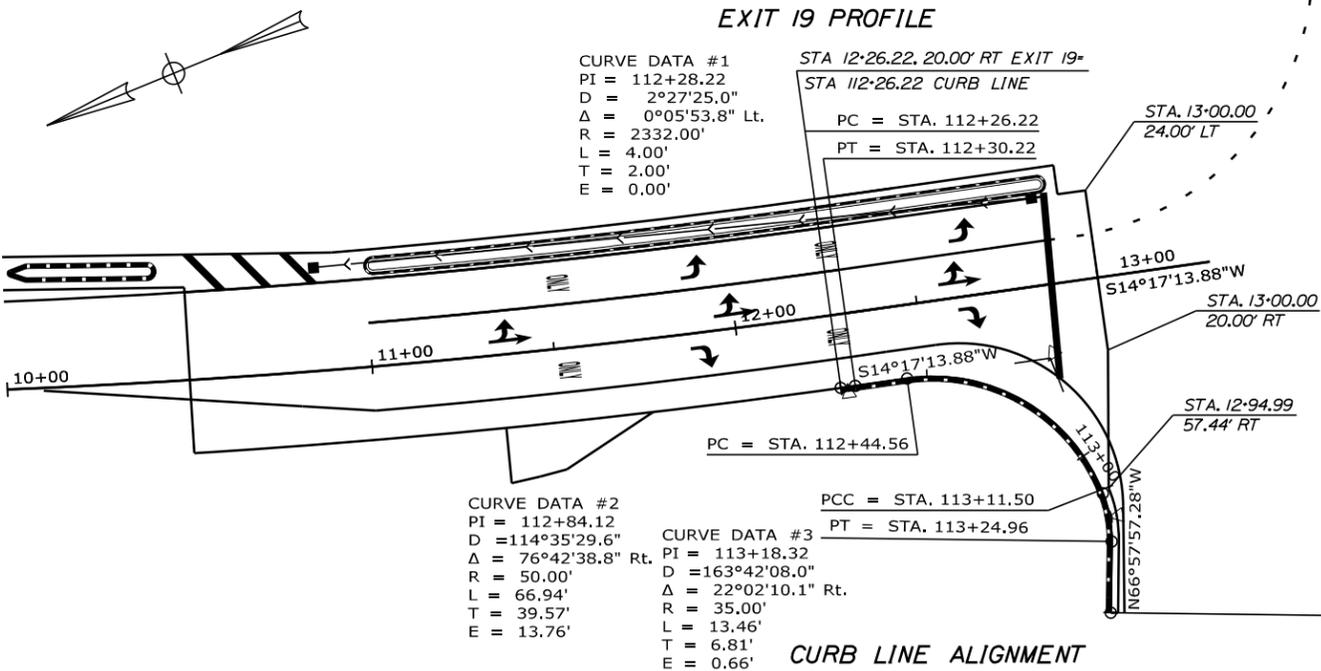
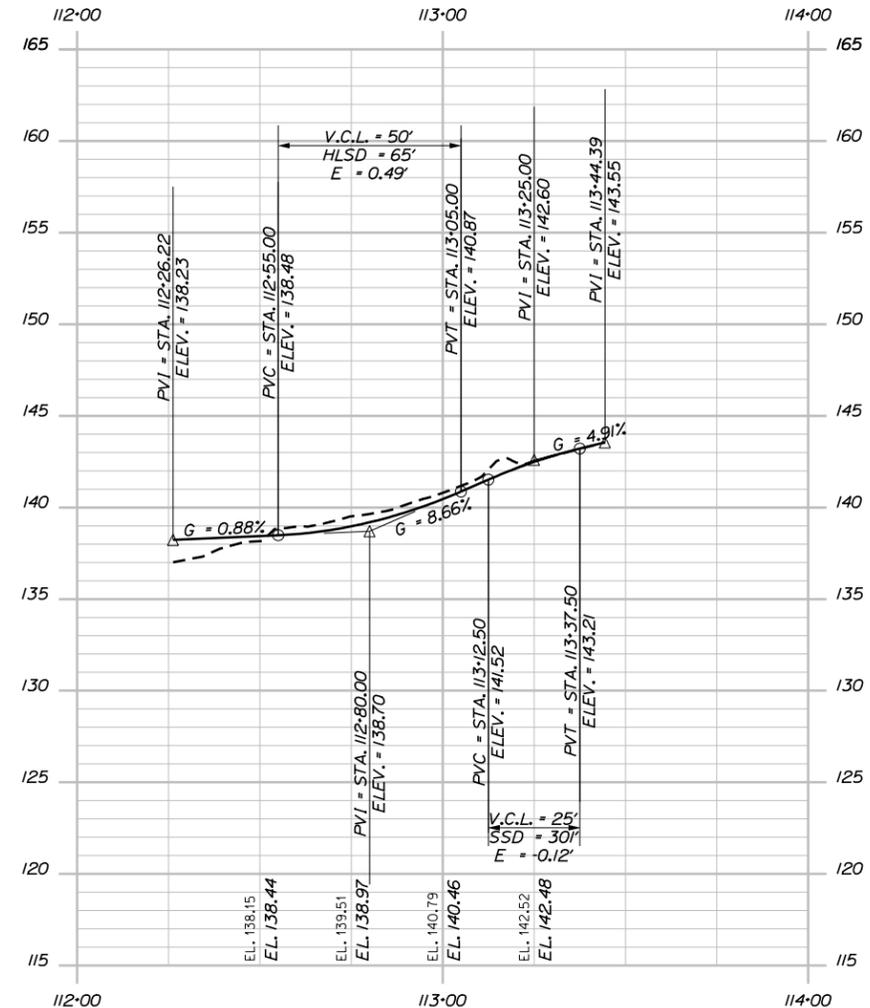
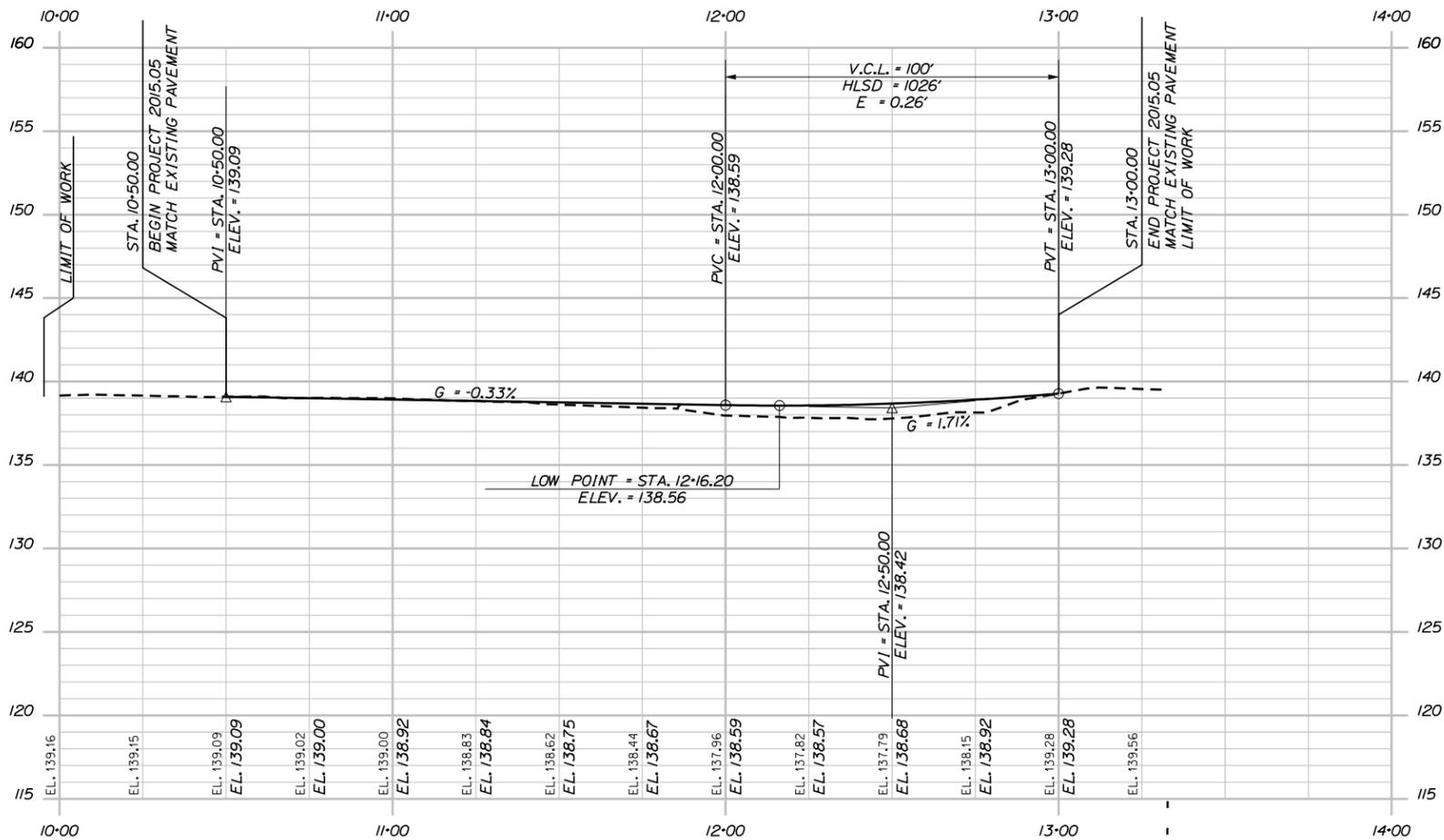
**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP**

PLAN

CONTRACT: 2015.05

SHEET NUMBER:

6 OF 16



No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevn S. Ducharme

By	Date	By	Date
Designed	JRH 5/2015	Checked	TSK 5/2015
Drawn	JRH 5/2015	In Charge of	KSD 5/2015

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

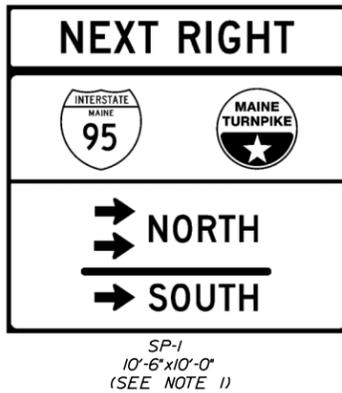
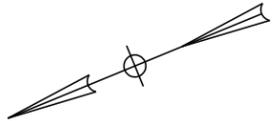
MTA PROJECT MANAGER: Ralph Norwood

**INTERSECTION IMPROVEMENTS
 EXIT 19 OFF-RAMP**

GEOMETRY

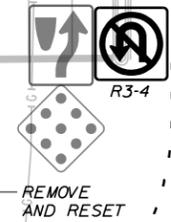
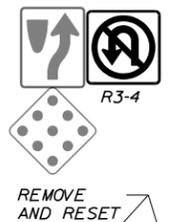
CONTRACT: 2015.05

SHEET NUMBER:



NOTES:

- SP-1 SIGN PANELS WILL BE PROVIDED BY MTA AND BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE POSTS, FOUNDATIONS, AND ALL HARDWARE NECESSARY FOR INSTALLATION.
- R5-1 AND R5-1a SIGNS IN MEDIAN SHALL BE ANGLED AS DIRECTED BY THE RESIDENT.

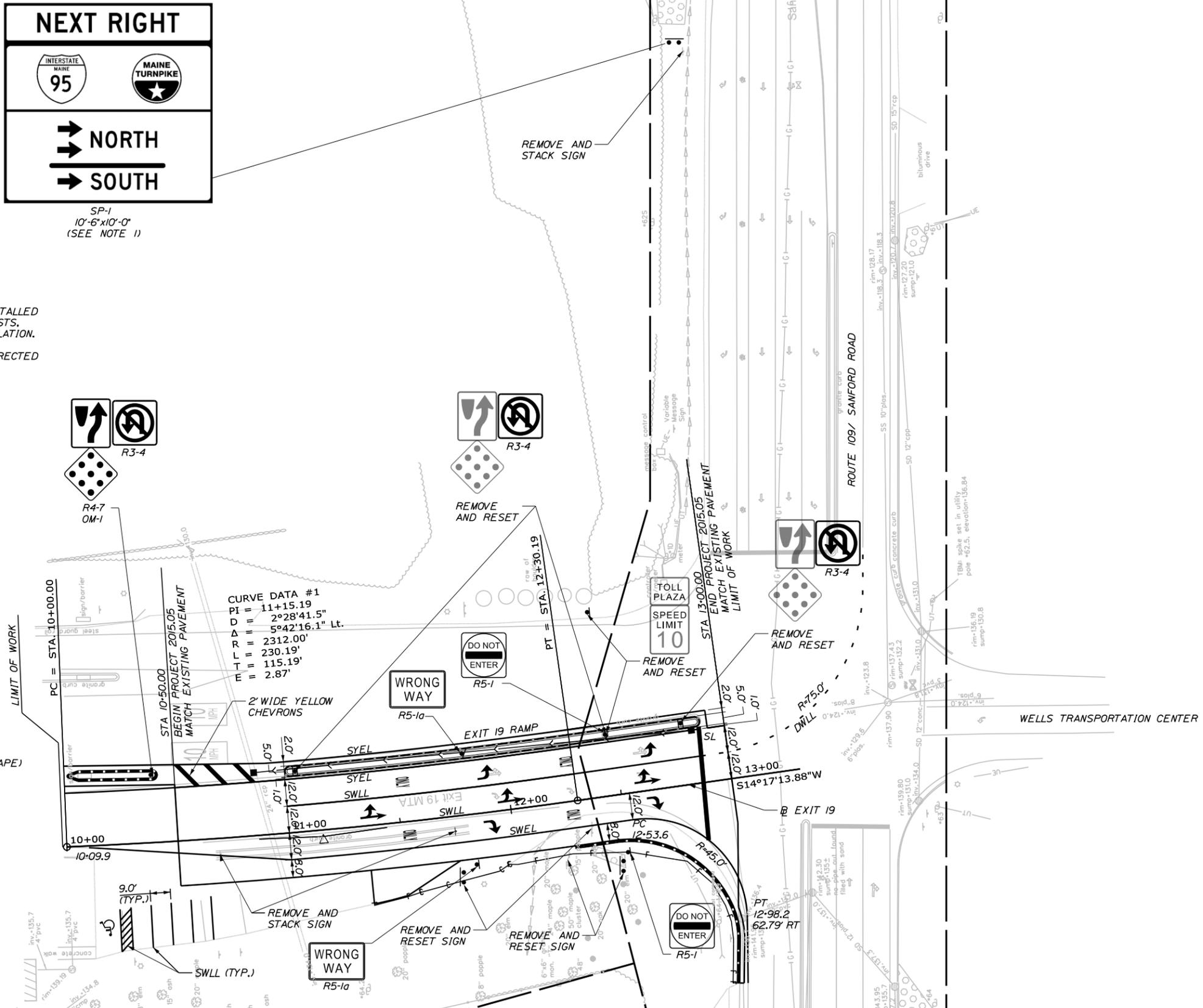


PAVEMENT MARKING ABBREVIATIONS

- SYEL = 4" SOLID YELLOW EDGE LINE
- SWLL = 4" SOLID WHITE LANE LINE
- SWEL = 4" SOLID WHITE EDGE LINE
- DWLL = 4" DOTTED WHITE LANE LINE (PAVEMENT MARKING TAPE)
- SL = 12" STOP LINE

LEGEND

- PAINTED WHITE LEFT ARROW
- PAINTED WHITE RIGHT ARROW
- PAINTED WHITE THRU / LEFT ARROW
- PAINTED WHITE HANDICAPPED SYMBOL
- PAINTED WHITE "ONLY" SYMBOL



Scale:

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevn S. Ducharme

	By	Date		By	Date
Designed	JRH	5/2015	Checked	JRH	5/2015
Drawn	PJB	5/2015	In Charge of	KSD	5/2015

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

**INTERSECTION IMPROVEMENTS
 EXIT 19 OFF-RAMP**

SIGNING AND STRIPING PLAN

SHEET NUMBER:
 CONTRACT: 2015.05
 8 OF 16

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
R3-4	36"	36"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			3	WHITE	RED/BLACK		9.00 (27)	
R3-8	30"	30"					1	WHITE	BLACK		6.25 (6.25)	
R4-7	24"	30"					1	WHITE	BLACK		5.00 (5)	
R5-1	36"	36"					2	RED	WHITE		9.00 (18)	
R5-1a	42"	30"					2	RED	WHITE		8.75 (17.5)	
OM-1	18"	18"					1	YELLOW	BLACK		2.25 (2.25)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevin S. Ducharme

	By	Date		By	Date
Designed	JRH	5/2015	Checked	JRH	5/2015
Drawn	SPA	5/2015	In Charge of	KSD	5/2015

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP

SIGN SUMMARY

SHEET NUMBER:

CONTRACT: 2015.05

RTE 109 TRANS CTR		RTE 109 EXIT 19		PHASE 1 • 5		PHASE 2 • 5		PHASE 2 • 6		PHASE 7		PHASE 8	
STREET / HOUSING													
A1		R		R		R		←G—		R		R	
A2		R		R		R		←G—/G		R		R	
A3		-G→		-G→		R		G/-G→		R		R	
B1		R		G		G		R		R		R	
B2		R		G		G		R		R		R	
B3		←G—		←G—		R		R		R		R	
C1		R		R		R		R		R		G	
C2		R		R		R		R		R		G	
D1		R		R		G/-G→		R/-G→		R		R	
D2		R		R		G		R		R		R	
D3		←G—		R		R		R		R		R	
I N T E R V A L S	MIN. GREEN	5		5		10		5		5		5	
	VEH EXT	3		3		3		3		3		3	
	MAX 1*	10		35		25		20		15		15	
	MAX 2*	10		20		30		30		15		15	
	YELLOW	4		4		4		4		4		4	
	RED	2		2		2		2		2		2	
	WALK PED CLR	-		-		-		-		-		-	
VEH. DETECTOR RECALL		-		-		SOFT		-		-		-	
PREEMPTION PHASE**		-		P1		-		P3		-		P4	

PHASING DIAGRAM

* MAX 1 IS FROM 6AM - 10AM, MAX 2 IS FOR ALL OTHER TIMES

** PHASE IS ACTIVATED WHEN PREEMPTION CALL IS RECEIVED.

P2 - CALL PHASES 1 • 6

GENERAL NOTES:

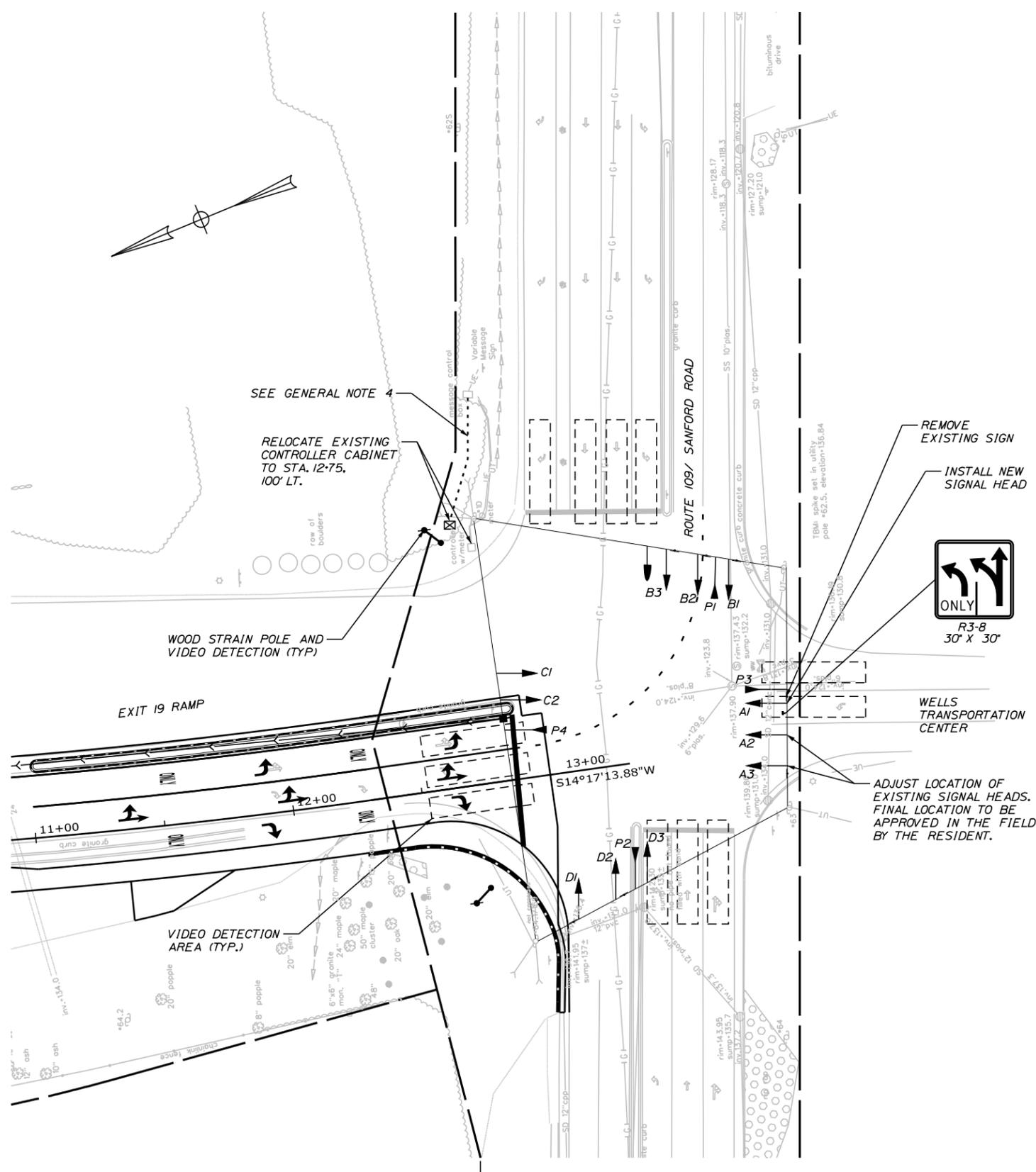
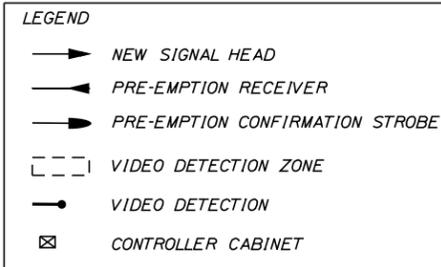
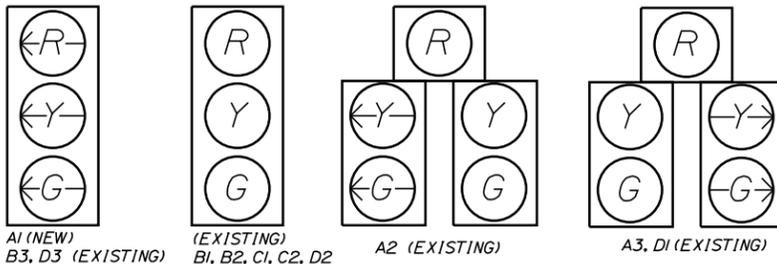
1. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNS, PAYMENT WILL BE INCIDENTAL TO ITEM 643.80 - TRAFFIC SIGNAL MODIFICATIONS. ALL REMOVED EQUIPMENT IS THE PROPERTY OF THE MTA AND SHALL BE STACKED AT THE MTA SIGN SHOP AT MM 58.3.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND MATERIAL OF ALL SUBSURFACE UTILITIES.
3. ALL TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO TRAFFIC.
4. EXISTING POWER SUPPLY TO CONTROLLER CABINET SHALL BE REMOVED, POWER FOR SIGNAL TO BE SUPPLIED THROUGH EXISTING VARIABLE MESSAGE SIGN POWER SUPPLY.

VIDEO DETECTION NOTES:

1. A VIDEO BASED 360 DEGREE VIDEO DETECTION DEVICE SHALL BE USED.
2. THE CONTRACTOR SHALL INSTALL VIDEO DETECTION ON NEW POLES AT A HEIGHT AND LOCATION TO ENSURE OPTIMAL PERFORMANCE. THE VIDEO DETECTION INSTALLATION SHALL BE APPROVED BY THE RESIDENT.

SIGNAL NOTES:

1. TRAFFIC SIGNAL EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE MTA SPECIAL PROVISIONS.
2. VEHICLE SIGNAL HEAD HOUSING SHALL BE A 12" ALUMINUM OR POLYCARBONATE HOUSING.
3. ALL SIGNAL HEADS SHALL BE 12" DIAMETER LED.
4. ALL SIGNAL HEADS SHALL HAVE 5" LOUVERED BACKPLATES.
5. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.



Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Kevin S. Ducharme					
By	Date	By	Date	By	Date
Designed	ARG 5/2015	Checked	TAE 5/2015		
Drawn	PJB 5/2015	In Charge of	KSD 5/2015		

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

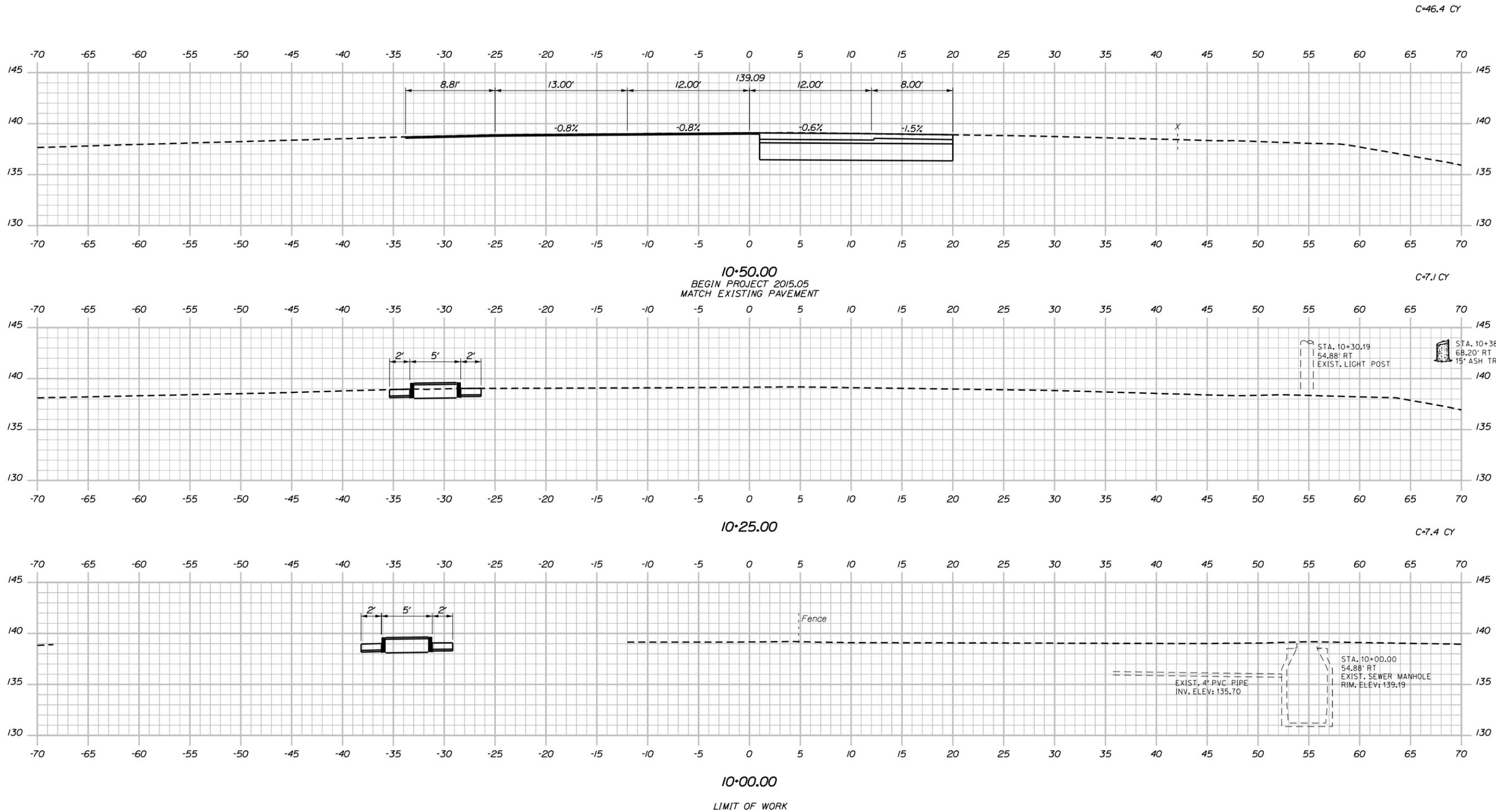
**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP**

SIGNAL PLAN

CONTRACT: 2015.05

SHEET NUMBER:

10 OF 16



Scale: 1" = 5'-0"

No.	Revision	By	Date

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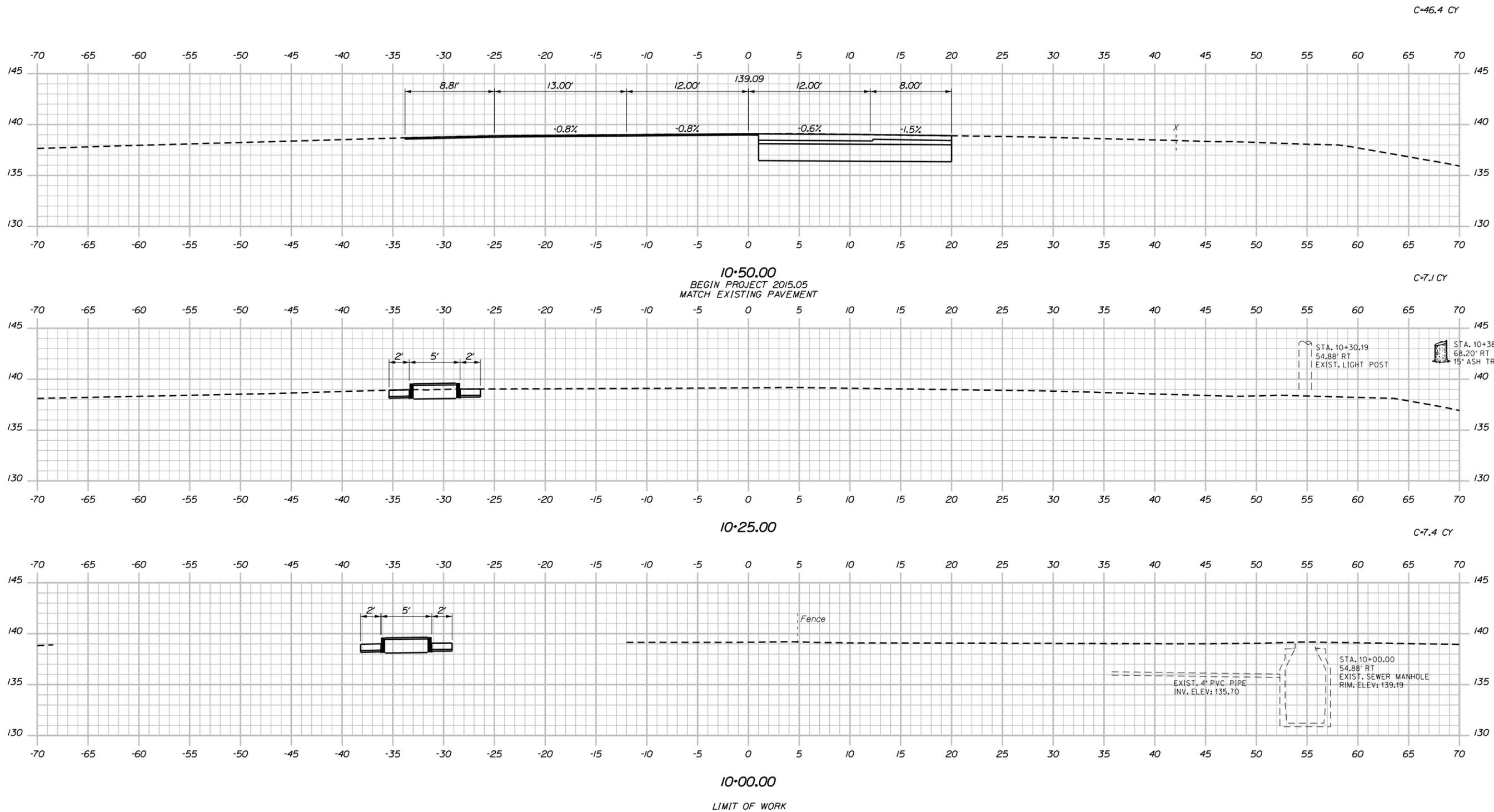
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP
CROSS SECTIONS**

SHEET NUMBER:
11 OF 16

CONTRACT: 2015.05



Scale: 1" = 5'-0"

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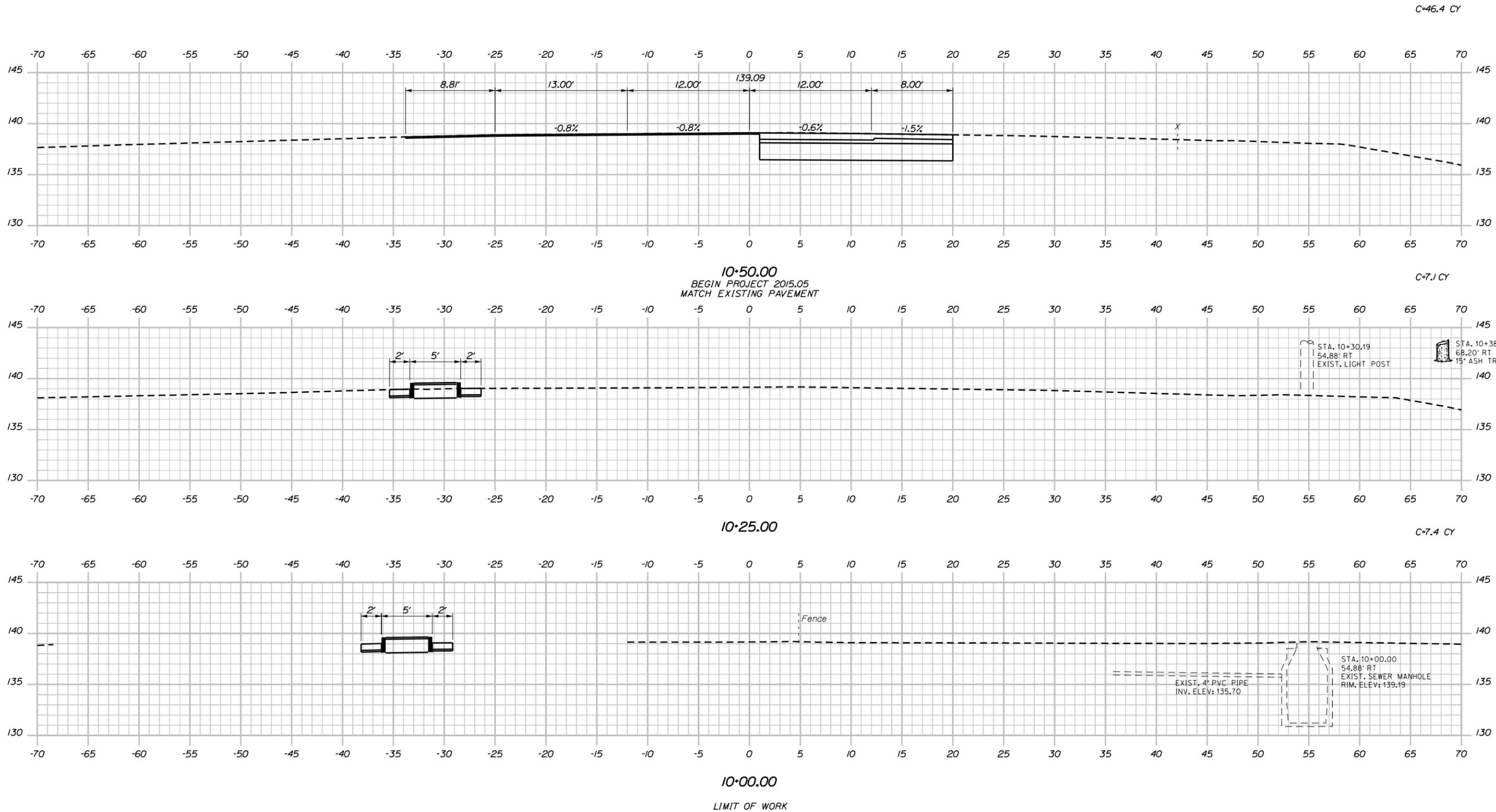
**THE GOLD STAR
MEMORIAL HIGHWAY**

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**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP
CROSS SECTIONS**

SHEET NUMBER:
11 OF 16

CONTRACT: 2015.05



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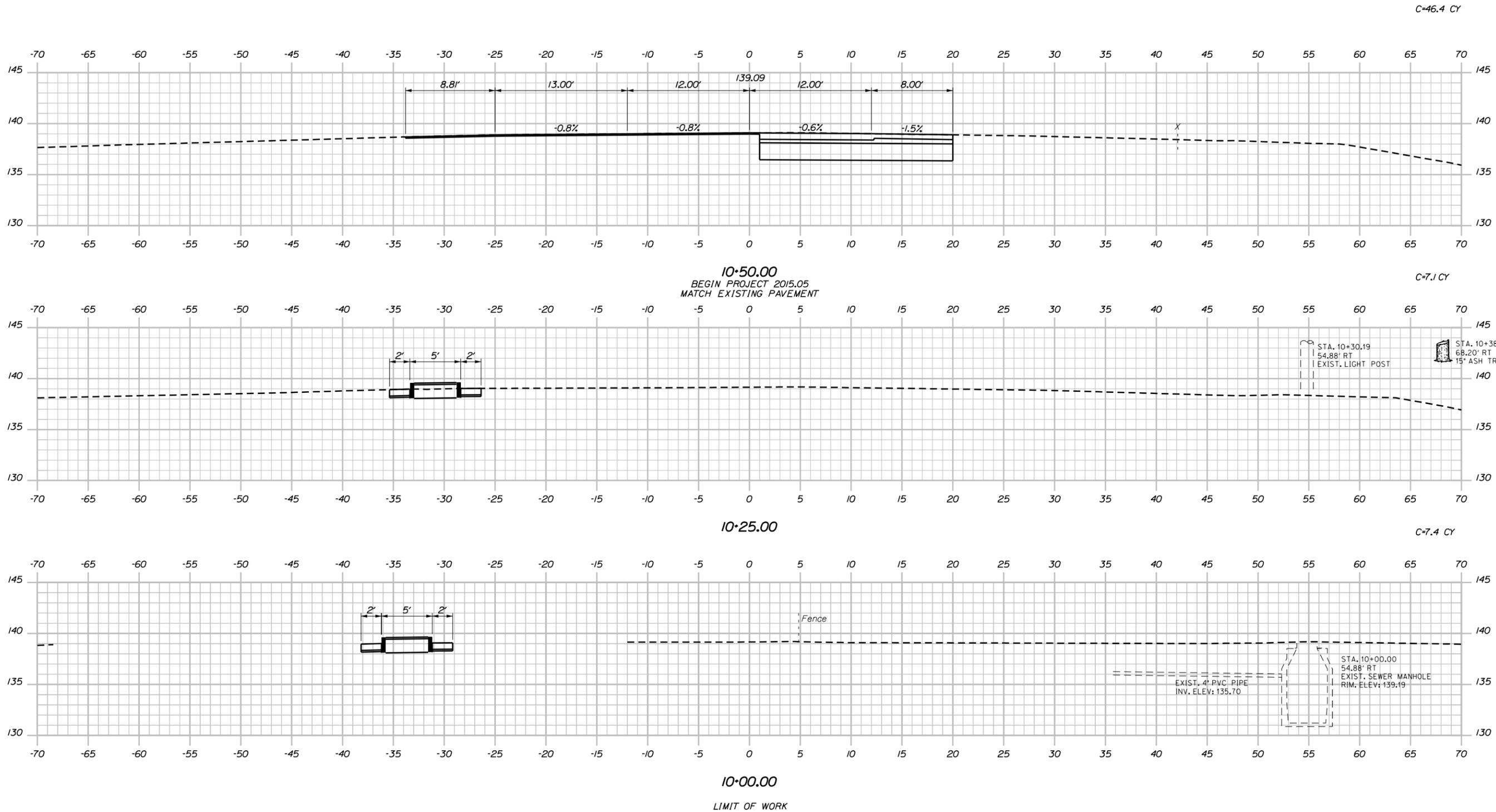
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP
CROSS SECTIONS**

SHEET NUMBER:
11 OF 16

CONTRACT: 2015.05



Scale: 1" = 5'-0"

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**INTERSECTION IMPROVEMENTS
EXIT 19 OFF-RAMP**

CROSS SECTIONS

SHEET NUMBER:

CONTRACT: 2015.05 11 OF 16

Sta. 10+00.00 to Sta. 10+50.00

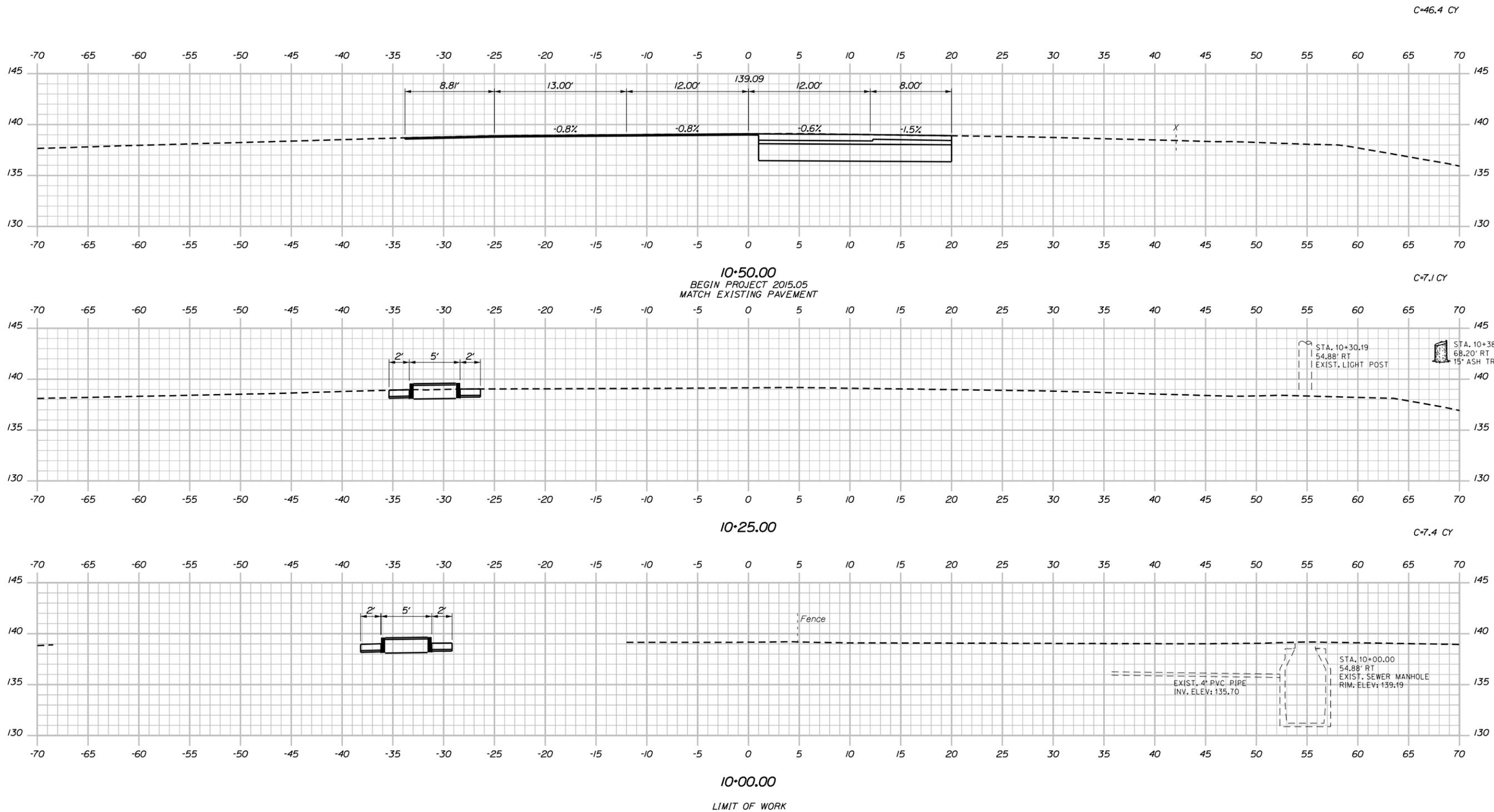
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Division: HIGHWAY

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Scale: 1" = 5'-0"

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: Kevin S. Ducharme

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

**INTERSECTION IMPROVEMENTS
 EXIT 19 OFF-RAMP**

CROSS SECTIONS

SHEET NUMBER: 11 OF 16

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