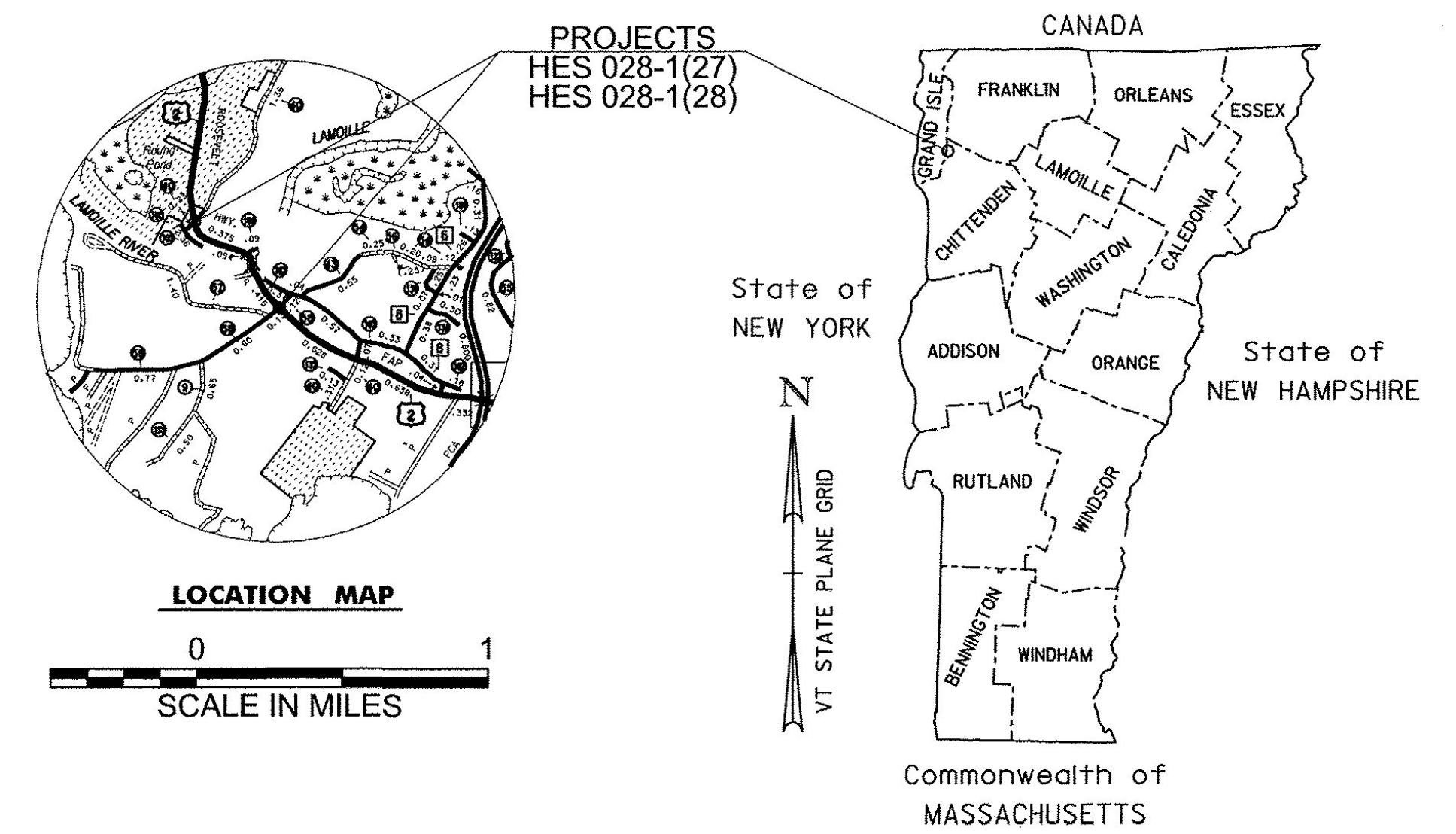


TABLE OF CONTENTS

SHEET 1	COMPOSITE TITLE SHEET
SHEET 2	CONVENTIONAL SYMBOLOGY SHEET
SHEET 3	TIE SHEET
SHEETS 4-5	COMPOSITE QUANTITY SHEETS
SHEETS 6-11	MILTON HES 028-1(27)
SHEETS 12-91	COLCHESTER HES 028-1(28)

STATE OF VERMONT AGENCY OF TRANSPORTATION



Record Plans
 Contractor: G.W. TATRO CONSTRUCTION, INC.
 Resident Engineer: CHRIS ACHILLES
 Construction Began: APRIL 18, 2016
 Construction Complete: NOVEMBER 23, 2016
 Record Plans By: CHRIS ACHILLES & JESSE IVES

I hereby certify that all construction required by this set of drawings has been accomplished as indicated herein.

E-SIGNED by Christopher Achilles on 2019-04-05 12:11:33 UTC
 BY: _____ Resident Engineer

Date: April 05, 2019

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

PROPOSED IMPROVEMENT TOWNS OF MILTON AND COLCHESTER COUNTY OF CHITTENDEN US ROUTE 2 - (MINOR ARTERIAL)

RECORD PLANS
 See Changes on Pages 57, 60, 63-70

MILTON HES 028-1(27):
 BEGINNING IN THE TOWN OF MILTON ON US ROUTE 2 AT STATION 161+50.00 (MM 3.059) AND EXTENDING EASTERLY 0.317 MILES TO STATION 178+25.00 (MM 3.376)

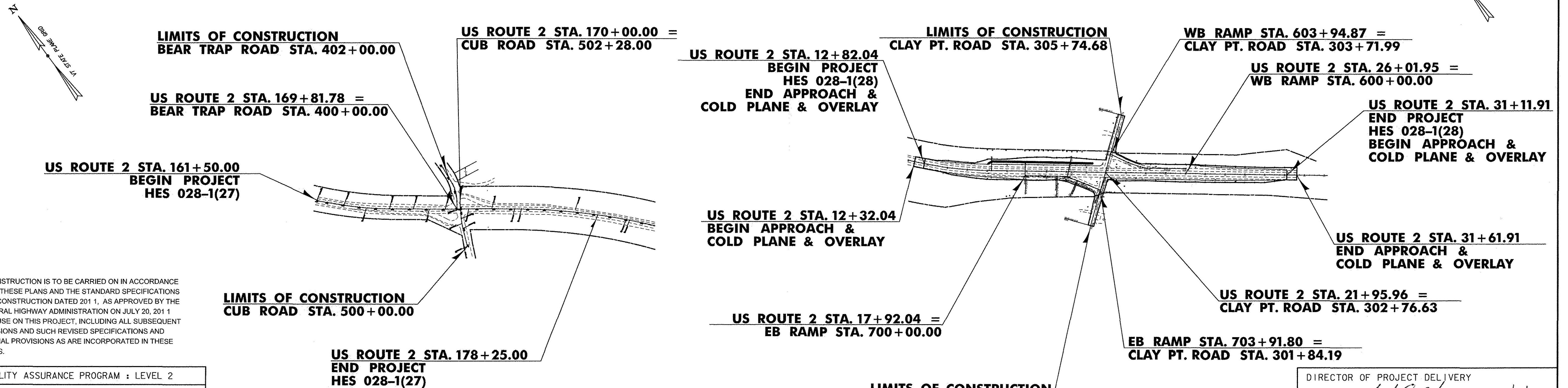
TOTAL LENGTH OF PROJECT = 1675.00 FT = 0.317 MI

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE INSTALLATION OF NEW TRAFFIC SIGNS.

COLCHESTER HES 028-1(28):
 BEGINNING IN THE TOWN OF COLCHESTER ON US ROUTE 2 AT STATION 12+82.04 (MM 0.243) EXTENDING EASTERLY 0.347 MILES TO STATION 31+11.91 (MM 0.589).

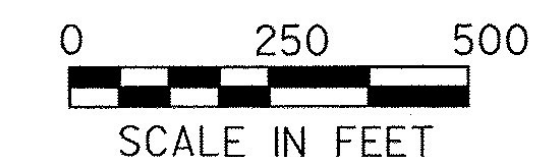
TOTAL LENGTH OF PROJECT = 1829.87 FT = 0.347 MI

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF TWO LEFT HAND TURN LANES, PAVEMENT MARKINGS, TRAFFIC SIGNS, AND OTHER HIGHWAY RELATED ITEMS.



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VTRANS, L. ORVIS
SURVEYED DATE :	MARCH 2013
DATUM	
VERTICAL	NAVD 88 ORTHO
HORIZONTAL	NAD 83 (2011)



DIRECTOR OF PROJECT DELIVERY	
APPROVED: <i>[Signature]</i>	DATE: 11/20/2015
PROJECT MANAGER : PATTI COBURN, P.E.	
PROJECT NAME : MILTON & COLCHESTER	
PROJECT NUMBER : HES 028-1(27) & 028-1(28)	
SHEET 1 OF 91 SHEETS	

GENERAL INFORMATION

SYMBOLY LEGEND NOTE

THE SYMBOLY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLY. THE SYMBOLY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
□	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
⊙	IPNS	IRON PIN TO BE SET
⊗	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⊗	APL	BOUND APPARENT LOCATION
□	BM	BENCH MARK
□	BND	BOUND
⊕	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
⊕	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
⊕	FPOLE	FLAGPOLE
⊕	GASFIL	GAS FILLER
⊕	GP	GUIDE POST
⊗	GSO	GAS SHUT OFF
⊕	GUY	GUY POLE
⊕	GUYW	GUY WIRE
⊗	GV	GATE VALUE
⊕	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊕	IP	IRON PIN
⊕	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
⊕	MH	MANHOLE (MH)
⊕	MM	MILE MARKER
⊕	PM	PARKING METER
⊕	PMK	PROJECT MARKER
⊕	POST	POST STONE/WOOD
⊕	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊕	SAT	SATELLITE DISH
⊕	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
⊕	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
⊕	WELL	WELL
⊕	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLY

UNDERGROUND UTILITIES	
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEP.
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEP.
— — —	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLY

PROJECT DESIGN & LAYOUT SYMBOLY	
- - - - CZ - - - -	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

▲ —▲ —▲ —▲ —▲	TOP OF CUT SLOPE
○ —○ —○ —○ —○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH L
-----	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF — PDF	PROJECT DEMARCATION FENCE
BF — x — x — BF	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLY

BOUNDARY LINES	
————— TOWN LINE —————	TOWN BOUNDARY LINE
————— COUNTY LINE —————	COUNTY BOUNDARY LINE
————— STATE LINE —————	STATE BOUNDARY LINE
——— / ——— / ——— /	PROPOSED STATE R.O.W. (LIMITED ACCESS)
——— - - - - -	PROPOSED STATE R.O.W.
——— // ———	STATE ROW (LIMITED ACCESS)
—————	STATE ROW
—————	TOWN ROW
-----	PERMANENT EASEMENT LINE (P)
-----	TEMPORARY EASEMENT LINE (T)
—————	SURVEY LINE
——— P —— P —— P ——	PROPERTY LINE (P/L)
▲ — SR — SR — SR —	SLOPE RIGHTS
6f ——— 6f ———	6F PROPERTY BOUNDARY
4f ——— 4f ———	4F PROPERTY BOUNDARY
HAZ ——— HAZ ———	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLY

EPSC MEASURES	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	FILTER CURTAIN
— x — x — x — x — x — x —	SILT FENCE
— x — x — x — x — x — x —	SILT FENCE WOVEN WIRE
▶ —▶ —▶ —▶ —▶ —▶ —▶ —▶	CHECK DAM
■	DISTURBED AREAS REQUIRING RE-VEGETATION
⊗	EROSION MATTING

ENVIRONMENTAL RESOURCES

———	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
-----	THREATENED & ENDANGERED SPECIES
HAZ — HAZ	HAZARDOUS WASTE AREA
AG	AGRICULTURAL LAND
HABITAT	FISH & WILDLIFE HABITAT
FLOOD PLAIN	FLOOD PLAIN
OHW	ORDINARY HIGH WATER (OHW)
◆ —◆ —◆ —◆ —◆	STORM WATER
-----	USDA FOREST SERVICE LANDS
-----	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

——— ARCH ———	ARCHEOLOGICAL BOUNDARY
——— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
——— HISTORIC ———	HISTORIC AREA
(H)	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLY

EXISTING FEATURES	
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
x — x — x — x — x — x —	FENCE (EXISTING)
□ —□ —□ —□ —□ —□ —	FENCE WOOD POST
○ —○ —○ —○ —○ —○ —	FENCE STEEL POST
~~~~~	GARDEN
○ —○ —○ —○ —○ —○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
~~~~~	BODY OF WATER EDGE
~~~~~	LEDGE EXPOSED

PROJECT NAME: COLCHESTER/MILTON  
 PROJECT NUMBER: HES 028-1(28)/HES 028-1(27)  
 FILE NAME: t13b028frm.dgn PLOT DATE: 11/23/2015  
 PROJECT LEADER: P. COBURN DRAWN BY: M. BOGACZYK  
 DESIGNED BY: M. BOGACZYK CHECKED BY: M. LACROIX  
 CONVENTIONAL SYMBOLY LEGEND SHEET SHEET 2 OF 91

GPS CONTROL POINTS

HVCTRL #1

EXIT 17 RESET

NORTH = 762432.9320  
 EAST = 1465974.3610  
 ELEV. = 229.9800

DESCRIBED BY VERMONT GEODETIC SURVEY 1996 (DJM)  
 GENERAL LOCATION, COLCHESTER, VT. THE MARK IS 19.5 M (64.0 FT) EAST OF THE EAST END OF THE U.S.ROUTE 2 BRIDGE OVER I-89 AT EXIT 17, BEHIND THE GUARDRAIL ON THE SOUTH SIDE OF U.S.ROUTE 2. IT IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT Poured 1.4 M (4.6 FT) DEEP. IT IS 0.8 M (2.6 FT) SOUTH OF AND ABOUT LEVEL WITH THE SOUTH EDGE OF PAVEMENT OF U.S.ROUTE 2, 17.2 M (56.4 FT) EAST OF THE SOUTHEAST CORNER OF THE BRIDGE ABUTMENT, 0.8 M (2.6 FT) SOUTH OF A STEEL BEAM GUARDRAIL, AND 0.3 M (1.0 FT) NORTH OF A FIBERGLASS WITNESS POST.

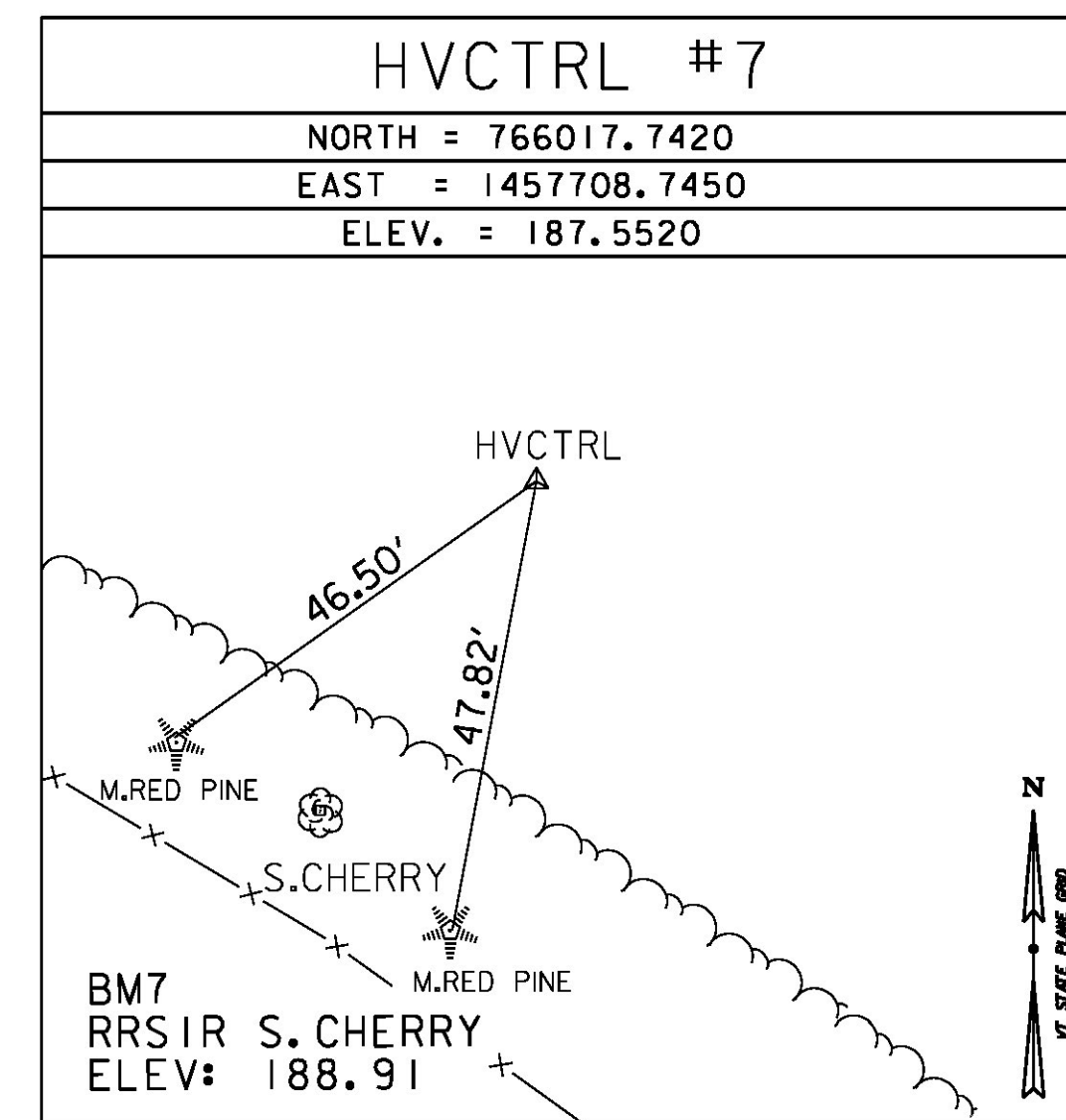
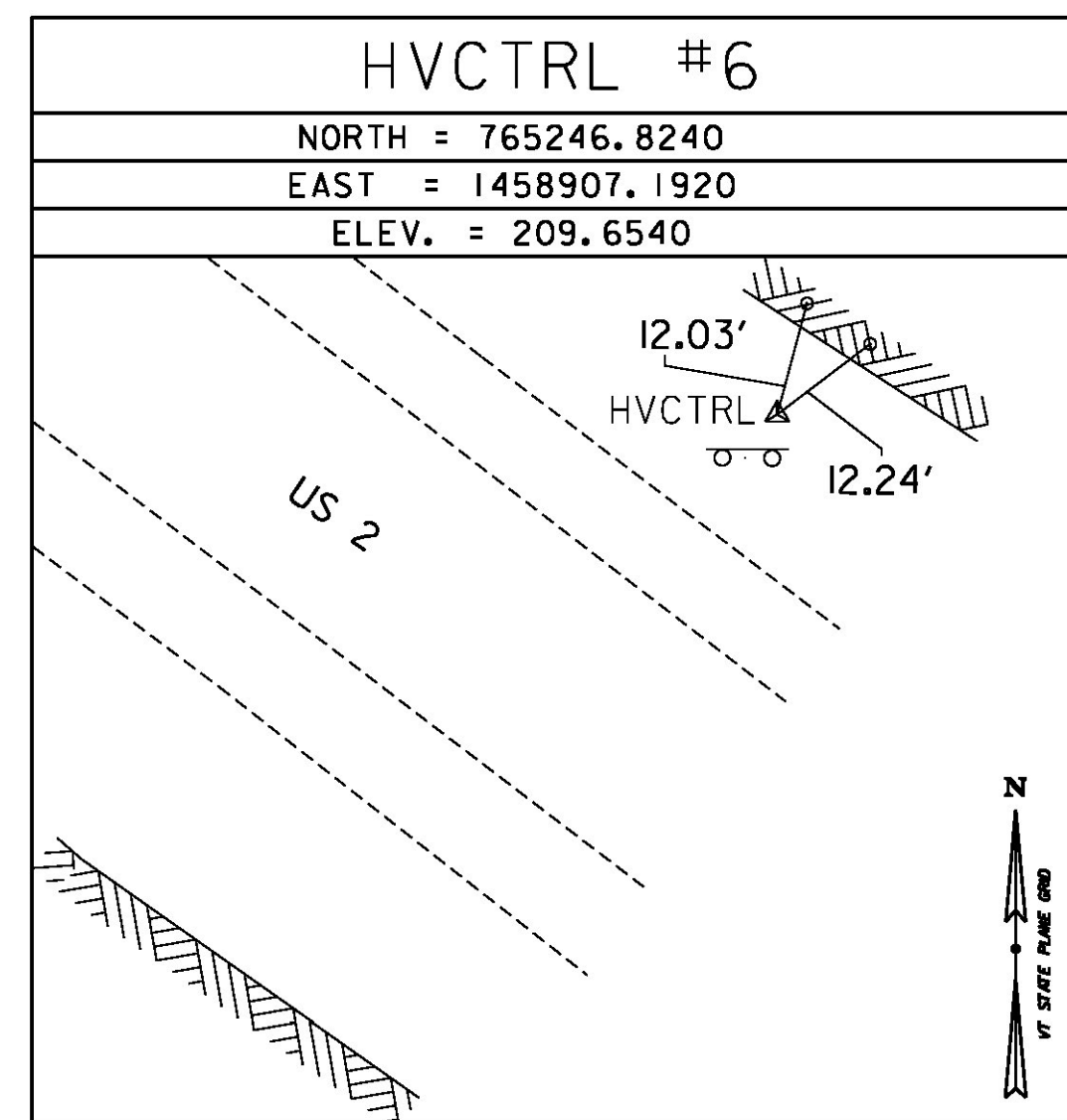
HVCTRL #2

EXIT 17 RESET AZ MK

NORTH = 763316.2520  
 EAST = 1463390.2650  
 ELEV. = 244.4700

DESCRIBED BY VERMONT GEODETIC SURVEY 1996 (DJM)  
 GENERAL LOCATION, COLCHESTER, VT. TO REACH FROM THE WEST END OF THE U.S.ROUTE 2 BRIDGE OVER I-89 AT EXIT 17 GO WEST ALONG U.S.ROUTE 2 FOR 0.5 MI(0.8 KM) TO THE MARK ON THE LEFT, SET IN THE TOP OF A MASSIVE ROCK OUTCROP AT THE TOP OF A LEDGE CUT. THE MARK IS 21.2 M (69.6 FT) SOUTH OF AND ABOUT 6 M (19.7 FT) HIGHER THAN THE CENTERLINE OF U.S.ROUTE 2, 2.4 M (7.9 FT) SOUTH OF THE NORTH EDGE OF THE LEDGE CUT, 9.6 M (31.5 FT) NORTHWEST OF A 10 CM ELM, AND 9.3 M (30.5 FT) NORTH OF A FIBERGLASS WITNESS POST IN THE RIGHT OF WAY FENCE.

TRAVERSE TIES



_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

ALIGNMENT TIES

_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

_____

NORTH = _____

EAST = _____

ELEV. = _____

DATUM

VERTICAL NAVD 88 ORTHO

HORIZONTAL NAD 83 (2011)

ADJUSTMENT COMPASS

PROJECT NAME: COLCHESTER/MILTON

PROJECT NUMBER: HES 028-1(28)/HES 028-1(27)

FILE NAME: X13B028TIE.DGN PLOT DATE: 11/23/2015

PROJECT LEADER: M. LACROIX DRAWN BY: S. DONOVAN

DESIGNED BY: VTRANS CHECKED BY: P. BEYOR

TIE SHEET SHEET 3 OF 91

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
					ROADWAY HES 028-1(28)	EROSION CONTROL HES 028-1(28)	FULL C.E. (ITEMS HES 028- 1(28))	ROADWAY HES 028-1(27)	EROSION CONTROL HES 028-1(27)	FULL C.E. (ITEMS HES 028- 1(27))	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
					5557						5557		CY	COMMON EXCAVATION	203.15	55	<b>203.15 - COMMON EXCAVATION</b>		
					556						556		CY	SOLID ROCK EXCAVATION	203.16	EST.	5502 CY	US ROUTE 2	
					2897						2897		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	29	55 CY	ROUNDING	
					5568						5568		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	55	5557 CY	TOTAL - COMMON EXCAVATION	
					348						348		CWT	EMULSIFIED ASPHALT	404.65	3	<b>203.16 - SOLID ROCK EXCAVATION</b>		
					1						1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	556 CY	US ROUTE 2	
					3820						3820		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	38	EST. CY	ROUNDING	
					1						1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	556 CY	TOTAL - SOLID ROCK EXCAVATION	
					1						1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-	<b>301.35 - SUBBASE OF DENSE GRADED CRUSHED STONE</b>		
					1						1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-	5513 CY	US ROUTE 2	
					2						2		TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	0.1	55 CY	ROUNDING	
					20						20		EACH	STEEL MARKER POSTS	619.16	4	5568 CY	TOTAL - SUBBASE OF DENSE GRADED CRUSHED STONE	
					1860						1860		LF	TEMPORARY TRAFFIC BARRIER	621.90	36	<b>490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)</b>		
					1860						1860		LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95	36	3473 TON	US ROUTE 2	
					80						80		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	88 TON	EB RAMP	
					480						480		HR	FLAGGERS	630.15	EST.	87 TON	WB RAMP	
							1				1		LS	FIELD OFFICE, ENGINEERS	631.10	-	134 TON	CLAY POINT ROAD	
							1				1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-	38 TON	ROUNDING	
							3000				3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-	3820 TON	TOTAL - SUPERPAVE BIT. CONCRETE PAVEMENT	
					1						1		LS	MOBILIZATION/DEMobilIZATION	635.11	-	<b>900.675 SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)</b>		
					1						1		LS	TRAFFIC CONTROL (COLCHESTER HES 028-1(28))	641.10	-	48 SY	CLAY POINT ROAD DRIVES	
								1			1		LS	TRAFFIC CONTROL (MILTON HES 028-1(27))	641.10	-	2 SY	ROUNDING	
					2						2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-	50 SY	TOTAL - HAND PLACED BIT. CONC. PAVEMENT, DRIVES	
					6811						6811		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	67			
					6860						6860		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	68			
					164						164		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	2			
					522						522		LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	5			
					80						80		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	1			
					48						48		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-			
					11350						11350		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	112			
					11390						11390		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	113			
					60						60		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	8			
					8						8		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-			
						100					100		LB	SEED	651.15	1			
						830					830		LB	FERTILIZER	651.18	8			
						3.3					3.3		TON	AGRICULTURAL LIMESTONE	651.20	0.1			
						3.3					3.3		TON	HAY MULCH	651.25	0.1			
						890					890		CY	TOPSOIL	651.35	9			
						1					1		LS	EPSC PLAN	652.10	-			
						80					80		HR	MONITORING EPSC PLAN	652.20	EST.			

PROJECT NAME: COLCHESTER/MILTON  
PROJECT NUMBER: HES 028-1(28)/HES 028-1(27)  
FILE NAME: t13b028frm.dgn PLOT DATE: 12/15/2015  
PROJECT LEADER: P. COBURN DRAWN BY: M. BOGACZYK  
DESIGNED BY: M. BOGACZYK CHECKED BY: M. LACROIX  
COMPOSITE QUANTITY SHEET 1 SHEET 4 OF 91

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES						TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
						GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
	ROADWAY HES 028-1(28)	EROSION CONTROL HES 028-1(28)	FULL C.E. ITEMS HES 028- 1(28)	ROADWAY HES 028-1(27)	EROSION CONTROL HES 028-1(27)									
		1				1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	--			
		2265				2265		SY	TEMPORARY EROSION MATTING	653.20	22			
		33				33		CY	VEHICLE TRACKING PAD	653.35	3			
		10				10		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	--			
		2423				2423		LF	PROJECT DEMARCATION FENCE	653.55	24			
	40			52		92		SF	TRAFFIC SIGNS, TYPE A	675.20	2			
	91			125		216		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	1			
	10			6		16		EACH	REMOVING SIGNS	675.50	--			
	1					1		EACH	ERECTING SALVAGED SIGNS	675.60	--			
	1					1		EACH	SETTING SALVAGED POSTS	675.61	--			
	1					1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	--			
				1		1		EACH	SPECIAL PROVISION (LED ENHANCED INTERSECTION WARNING SYSTEM)	900.620	--			
	50					50		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	2			

PROJECT NAME: COLCHESTER/MILTON  
 PROJECT NUMBER: HES 028-1(28)/HES 028-1(27)  
 FILE NAME: t13b028frm.dgn PLOT DATE: 12/15/2015  
 PROJECT LEADER: P. COBURN DRAWN BY: M. BOGACZYK  
 DESIGNED BY: M. BOGACZYK CHECKED BY: M. LACROIX  
 COMPOSITE QUANTITY SHEET 2 SHEET 5 OF 91

STATE OF VERMONT  
 AGENCY OF TRANSPORTATION

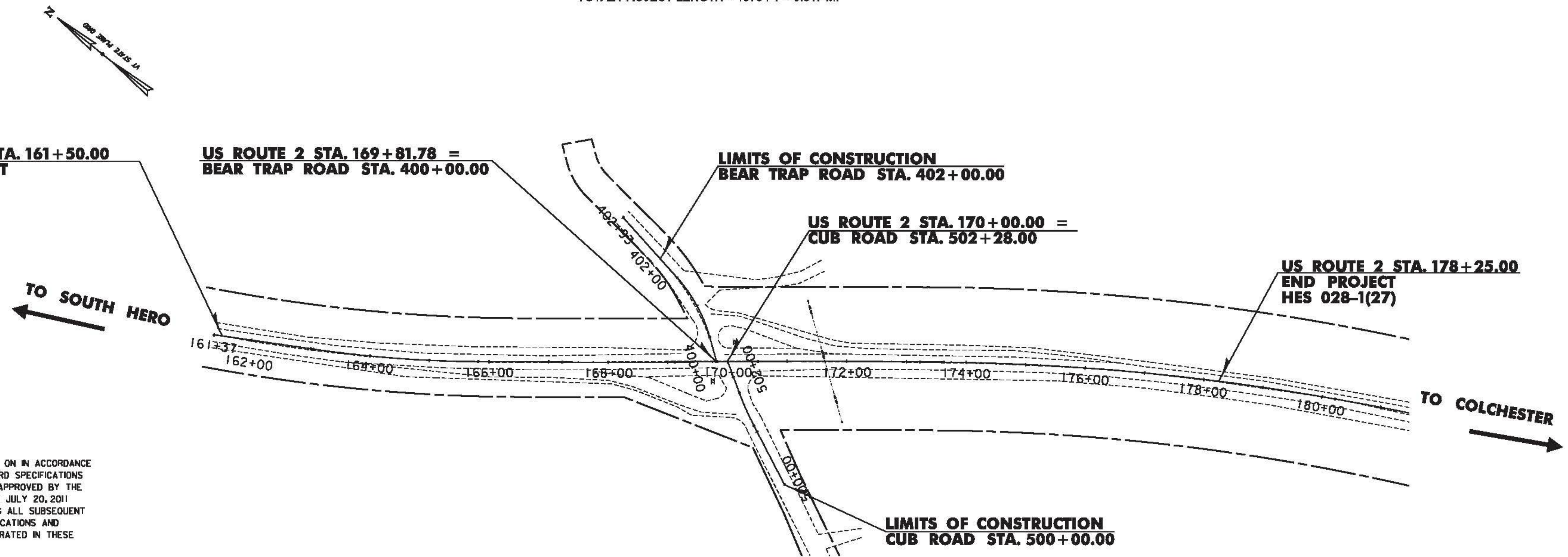
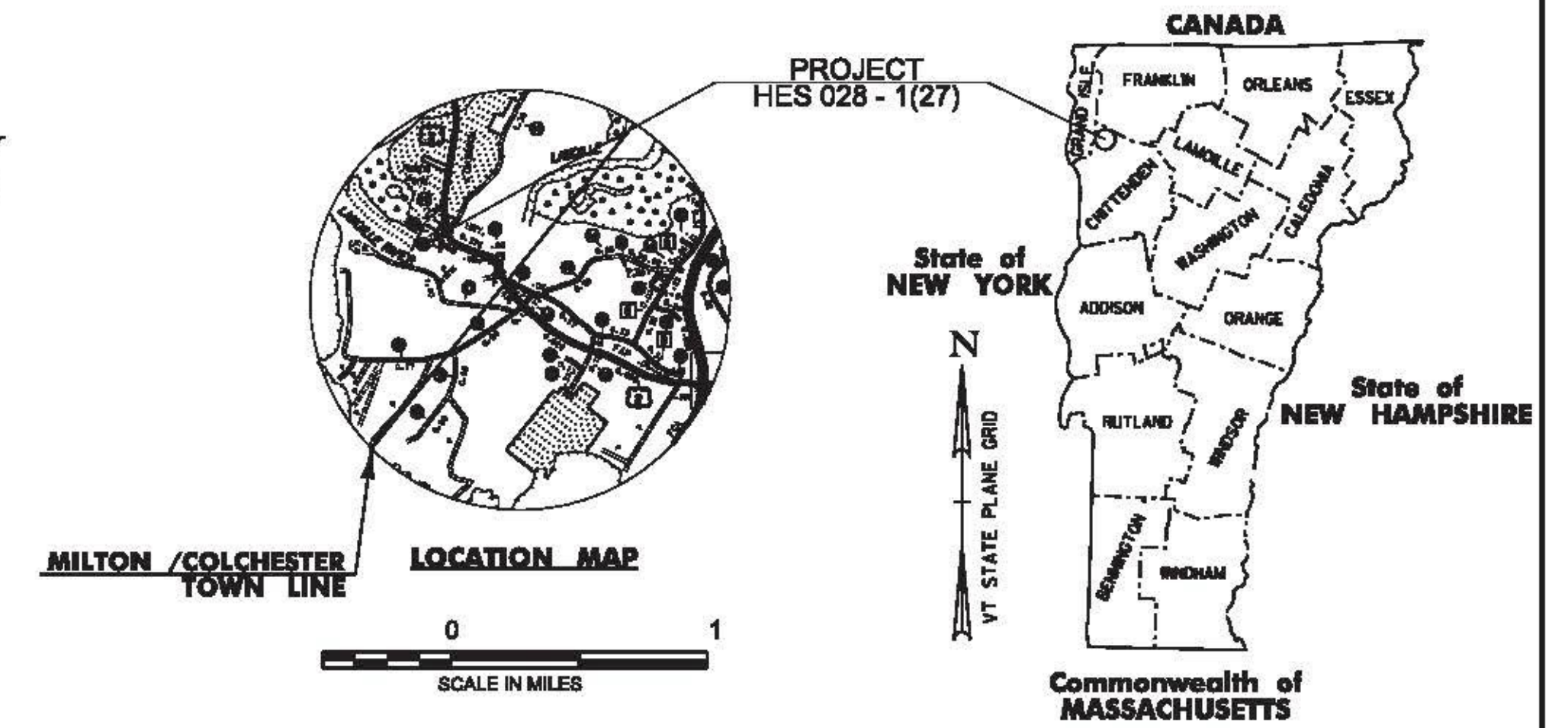


PROPOSED IMPROVEMENT  
 TOWN OF MILTON  
 COUNTY OF CHITTENDEN  
 US ROUTE 2 - (MINOR ARTERIAL)

BEGINNING IN THE TOWN OF MILTON ON US ROUTE 2 AT STATION 161+50.00  
 (MM 3.059) AND EXTENDING EASTERLY 0.317 MILES TO STATION 178+25.00  
 (MM 3.376)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE  
 INSTALLATION OF NEW TRAFFIC SIGNS.

TOTAL PROJECT LENGTH = 1675 FT = 0.317 MI

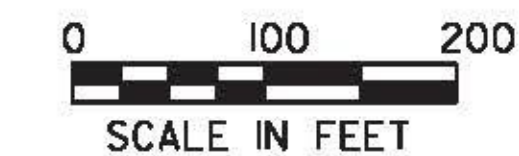


CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : VTRANS, L. ORVIS  
 SURVEYED DATE : MARCH, 2013

DATUM  
 VERTICAL : NAVD 88 ORTHO  
 HORIZONTAL : NAD 83 (2011)



PROJECT MANAGER : PATTI COBURN, P.E.

PROJECT NAME : MILTON  
 PROJECT NUMBER : HES 028-1(27)

SHEET 6 OF 91 SHEETS

# PRELIMINARY INFORMATION SHEET

## INDEX OF SHEETS

## GENERAL NOTES

### PLAN SHEETS

### PAGE NUMBER

### STANDARDS LIST

PLAN SHEETS	PAGE NUMBER	STANDARDS LIST	
TITLE SHEET	6	E-121	8/8/1995
PRELIMINARY INFORMATION SHEET	7	T-1	8/6/2012
QUANTITY SHEET	8	T-10	8/6/2012
DETECTION DETAIL SHEET	9	T-28	8/6/2012
TRAFFIC SIGN SHEET	10	T-45	1/2/2013
TRAFFIC SIGN SUMMARY SHEET	11		

1. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF WORK. IN THE EVENT OF DAMAGE TO THESE SYSTEMS CAUSED BY THE CONTRACTOR'S WORK, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
3. ALL CONSTRUCTION EQUIPMENT SHALL BE MOVED OUTSIDE OF THE CLEAR ZONE OR PROTECTED BY APPROVED BARRIERS DURING NON-WORKING HOURS.

PROJECT NAME: MILTON  
PROJECT NUMBER: HES 028-1(27)

FILE NAME: t13b028mil_frm.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
PRELIMINARY INFORMATION SHEET	SHEET 7 OF 91

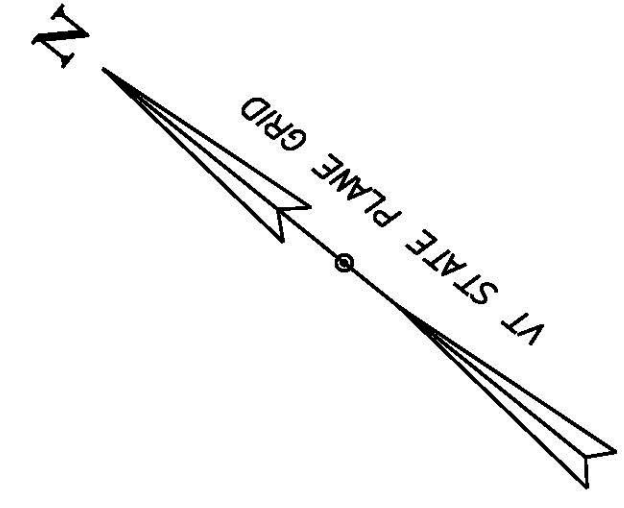


**NOTES:**

1. PLACEMENT OF DETECTORS FOR SPECIAL PROVISION (LED ENHANCED INTERSECTION WARNING SYSTEM) SHALL BE FIELD ADJUSTED BASED ON MANUFACTURER'S RECOMMENDATION FOR BEST ACCURACY.
2. DETECTORS SHALL BE MOUNTED ON STAND ALONE, HEAVY DUTY STEEL POSTS.
3. DETECTORS SHALL COMMUNICATE WIRELESSLY TO FLASHING LED WARNING SIGNS.
4. ALL UNITS FOR SPECIAL PROVISION (LED ENHANCED INTERSECTION WARNING SYSTEM) SHALL BE SOLAR POWERED. THE SOLAR POWER SHALL BE FIELD ADJUSTED BASED ON THE MANUFACTURER'S RECOMMENDATION TO ASSURE MAXIMUM SOLAR INPUT.

**SPECIAL PROVISION  
(LED ENHANCED INTERSECTION WARNING SYSTEM)  
DETECTORS**

STA. 169+25.99, LT 49.65'  
STA. 170+68.05, RT 47.23'



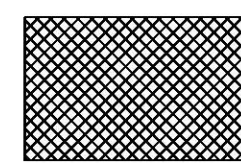
**LIMITS OF CONSTRUCTION  
402+00.00**

**US ROUTE 2 STA. 170+00.00 =  
CUB ROAD STA. 502+28.00**

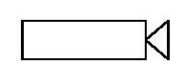
**US ROUTE 2 STA. 169+81.78 =  
BEAR TRAP ROAD STA. 400+00.00**

**LIMITS OF CONSTRUCTION  
500+00.00**

**LEGEND**



DETECTION ZONE



DETECTOR



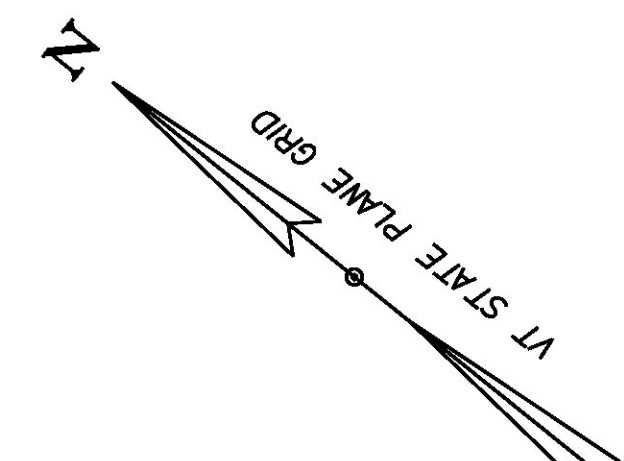
PROJECT NAME: MILTON  
PROJECT NUMBER: HES 028-1(27)

FILE NAME: t13b028nui - Copy.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
DETECTION DETAIL SHEET

PLOT DATE: 11/23/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 9 OF 91

REMOVING SIGNS  
AS SHOWN - 6 EACH

NEW SIGNS  
AS SHOWN - 6 EACH



STA. 161+72.64

**SPEED LIMIT 55** R

**SPEED LIMIT 55** N

STA. 166+32.00

**EMERGENCY STOPPING ONLY** RET

STA. 169+37.66

**STOP** RET

STA. 169+42.72

**STOP** RET

STA. 169+32.15

← **Cub Rd** RET

**Bear Trap Rd** → RET

STA. 169+06.56

**BIKE ROUTE** R

**↑** R

36" X 36" STA. 169+85.78

**STOP** RET

**DO NOT ENTER** RET

36" X 36" STA. 169+90.35

**STOP** RET

**DO NOT ENTER** RET

STA. 170+12.14

**NO TURNS** RET

**NO TURNS** RET

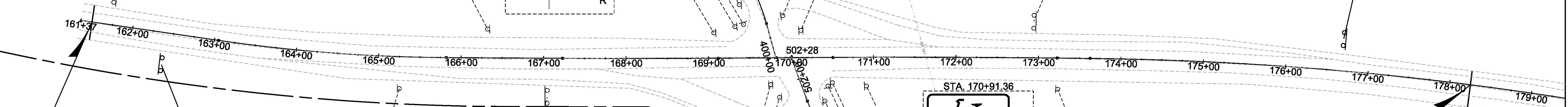
STA. 172+93.97

**ALL TURNS** RET

STA. 176+67.27

**WATCH FOR CROSS TRAFFIC** N

LED ENHANCED INTERSECTION WARNING SIGN



**LIMITS OF CONSTRUCTION**  
161 + 50.00

STA. 162+40.64

**WATCH FOR CROSS TRAFFIC** N

LED ENHANCED INTERSECTION WARNING SIGN

STA. 165+26.40

**ALL TURNS** RET

STA. 167+04.69

**ALL TURNS** RET

STA. 169+75.20

**NO TURNS** RET

**NO TURNS** RET

STA. 169+85.76

**STOP** RET

**DO NOT ENTER** RET

**LIMITS OF CONSTRUCTION**  
500 + 00.00

STA. 170+12.14

**STOP** RET

**DO NOT ENTER** RET

STA. 170+91.36

**BIKE ROUTE** R

**↑** R

STA. 170+49.95

← **Bear Trap Rd** RET

**Cub Rd** → RET

STA. 173+23.68

**EMERGENCY STOPPING ONLY** RET

STA. 170+44.69

**STOP** RET

STA. 170+54.50

**STOP** RET

**LIMITS OF CONSTRUCTION**  
178 + 25.00

STA. 178+08.27

**SPEED LIMIT 55** N

**SPEED LIMIT 55** R

**LEGEND**

N = NEW

R = REMOVE

RET = RETAIN

S = SALVAGE

PROJECT NAME: MILTON

PROJECT NUMBER: HES 028-1(27)

FILE NAME: t13b028nui- Copy.dgn

PROJECT LEADER: P. COBURN

DESIGNED BY: M. BOGACZYK

TRAFFIC SIGN SHEET

PLOT DATE: 11/23/2015

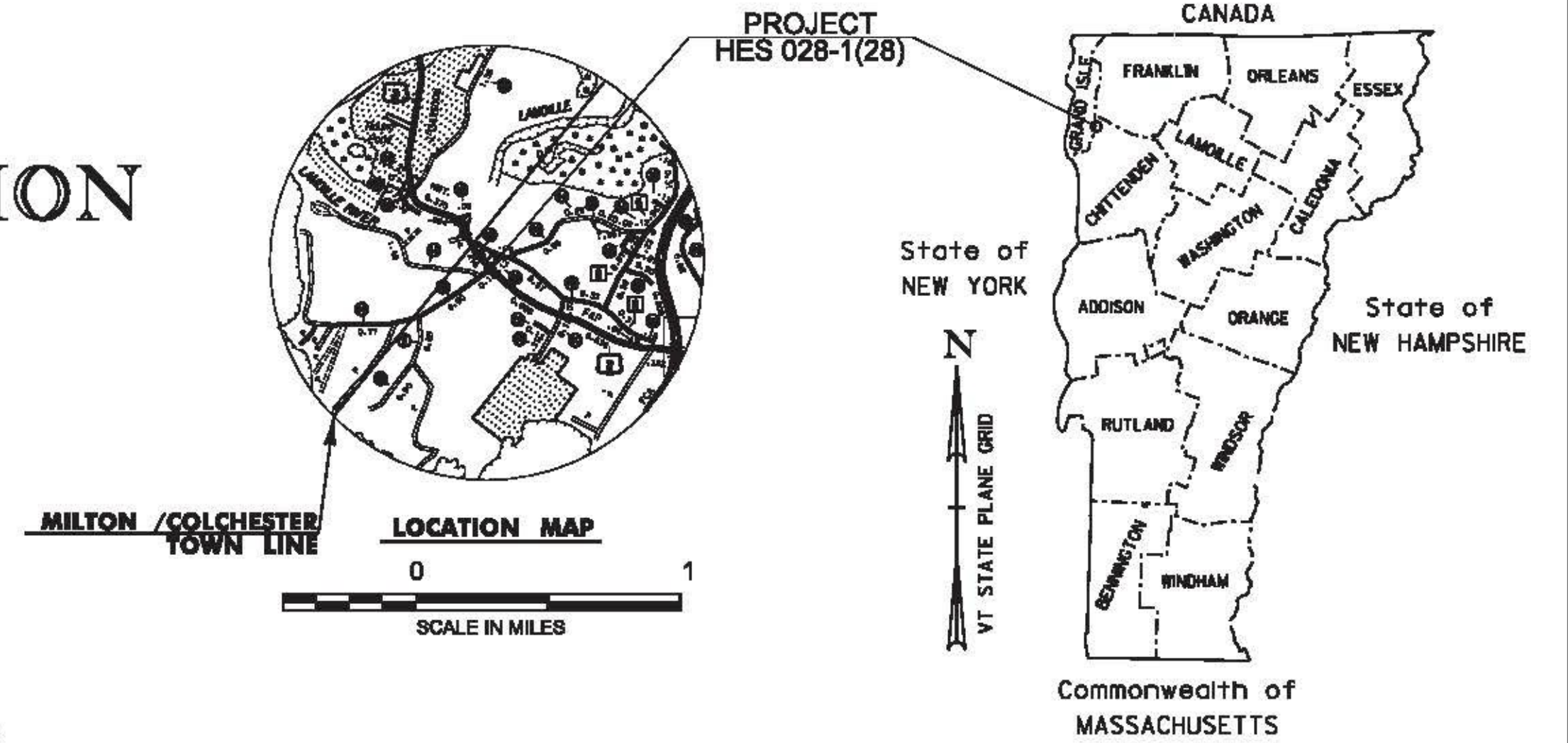
DRAWN BY: M. BOGACZYK

CHECKED BY: M. LACROIX

SHEET 10 OF 91



# STATE OF VERMONT AGENCY OF TRANSPORTATION

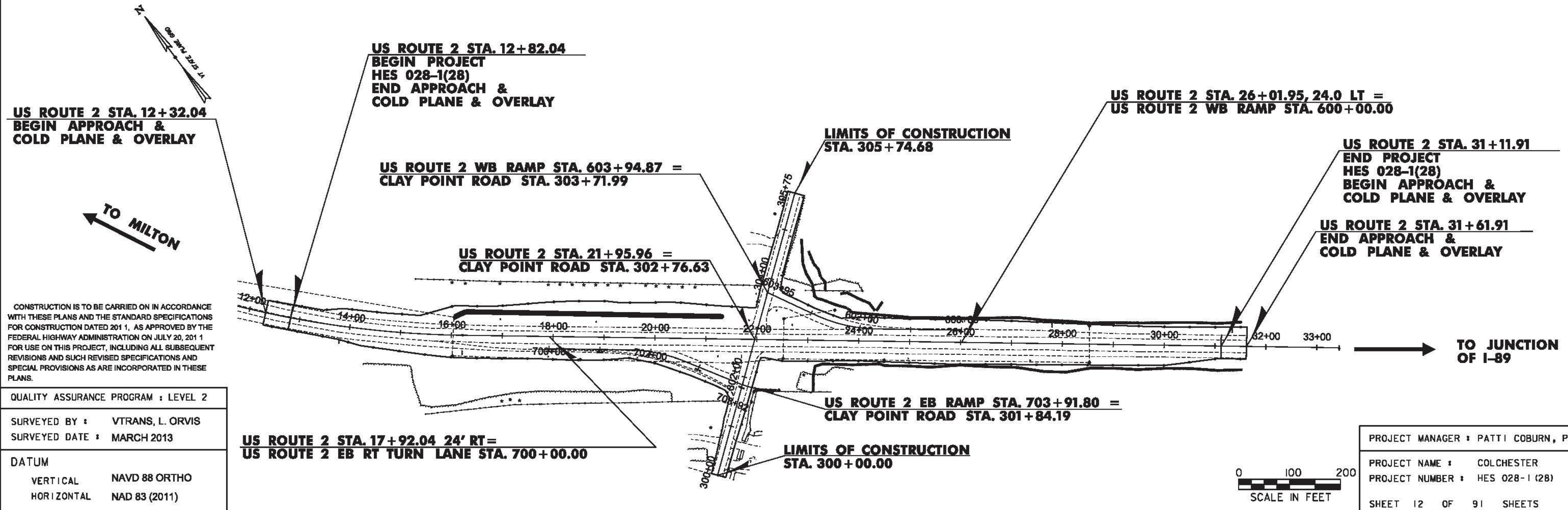


## PROPOSED IMPROVEMENT TOWN OF COLCHESTER COUNTY OF CHITTENDEN US ROUTE 2 - (MINOR ARTERIAL)

BEGINNING IN THE TOWN OF COLCHESTER ON US ROUTE 2 AT STATION 12+82.04 (MM 0.243) EXTENDING  
EASTERLY 0.347 MILES TO STATION 31+11.91 (MM 0.589).

TOTAL LENGTH OF PROJECT = 1829.87 FT = 0.347 MI

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF LEFT HAND TURN LANES,  
PAVEMENT MARKINGS, TRAFFIC SIGNS, AND OTHER HIGHWAY RELATED ITEMS.



# PRELIMINARY INFORMATION SHEET

## INDEX OF SHEETS

## GENERAL NOTES

### PLAN SHEETS

### PAGE NUMBER

### STANDARDS LIST

COLCHESTER TITLE SHEET	12	E-121	8/8/1995
PRELIMINARY INFORMATION SHEET	13	E-140	8/30/1996
TYPICAL SECTION SHEETS	14 - 15	E-141	9/20/1995
ALIGNMENT SHEETS	16 - 17	E-142	9/20/1995
BORING LOG SHEETS	18 - 23	E-143	6/15/2004
QUANTITY SHEETS	24 - 25	E-145B	12/23/1994
EARTHWORKS SHEET	26	E-152	5/1/2004
GENERAL LAYOUT SHEETS	27 - 31	E-155	5/1/2004
ROADWAY PROFILE & BANKING SHEETS	32 - 37	E-191	2/1/1999
EPSC DETAILS SHEETS	38 - 40	E-192	10/12/2000
EPSC NARRATIVE SHEET	41	E-193	8/18/1995
EPSC PLAN SHEETS	42 - 56	T-1	8/6/2012
TRAFFIC SIGN & PAVEMENT MARKING SHEETS	57 - 61	T-10	8/6/2012
TRAFFIC SIGN SUMMARY SHEET	62	T-45	1/2/2013
CROSS SECTION SHEETS	63 - 70	T-55	10/26/2015
CONSTRUCTION APPROACH SIGNING SHEET	71	T-56	10/26/2015
CONSTRUCTION SEQUENCING SHEETS	72 - 91	B-5	6/1/1994
		B-71	7/8/2005

1. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF WORK. IN THE EVENT OF DAMAGE TO THESE SYSTEMS CAUSED BY THE CONTRACTOR'S WORK, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
3. ALL CONSTRUCTION EQUIPMENT SHALL BE MOVED OUTSIDE OF THE CLEAR ZONE OR PROTECTED BY APPROVED BARRIERS DURING NON-WORKING HOURS.

## TRAFFIC DATA

INTERSECTION APPROACH	AADT		DHV		%T		%D		ADTT		ESALs		SPEED LIMIT (MPH)
	2014	2024	2014	2024	2014	2024	2014	2024	2014	2024	(2014-2024)	(2014-2024)	
CLAY POINT ROAD SOUTH LEG	1,300	1,400	140	150	8.3	9.7	69	69	95	120	150,000	332,000	35
CLAY POINT ROAD NORTH LEG	800	820	85	85	4.5	5.2	57	57	50	60	73,000	157,000	35
US ROUTE 2 WEST LEG	12,100	12,500	1,300	1,300	3.6	4.3	71	71	700	850	2,161,000	5,080,000	55
US ROUTE 2 EAST LEG	13,600	14,000	1,400	1,500	3.7	4.4	71	71	750	900	2,282,000	5,358,000	55

DESIGN SPEED = 55 MPH  
POSTED SPEED = 55 MPH

PROJECT NAME: COLCHESTER  
PROJECT NUMBER: HES 028-(128)

FILE NAME: t13b028frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
PRELIMINARY INFORMATION SHEET

PLOT DATE: 12/7/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 13 OF 91

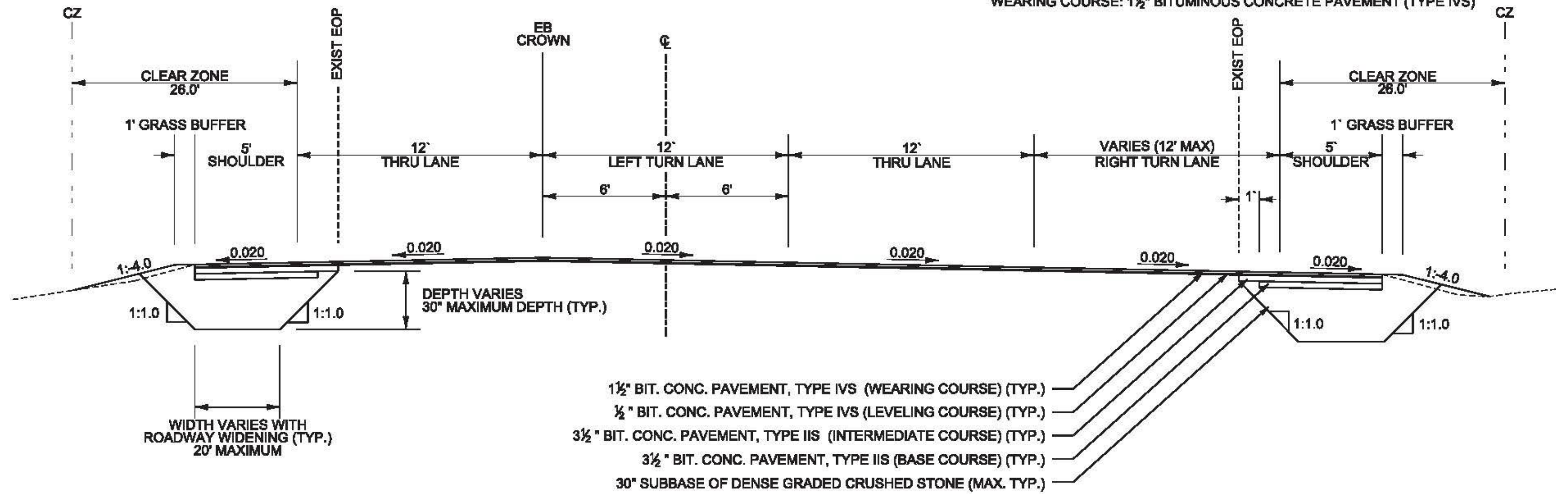
**MATERIAL TOLERANCES**

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	± 1/4"
SUBBASE (TOTAL DEPTH)	± 1"

# TYPICAL SECTIONS

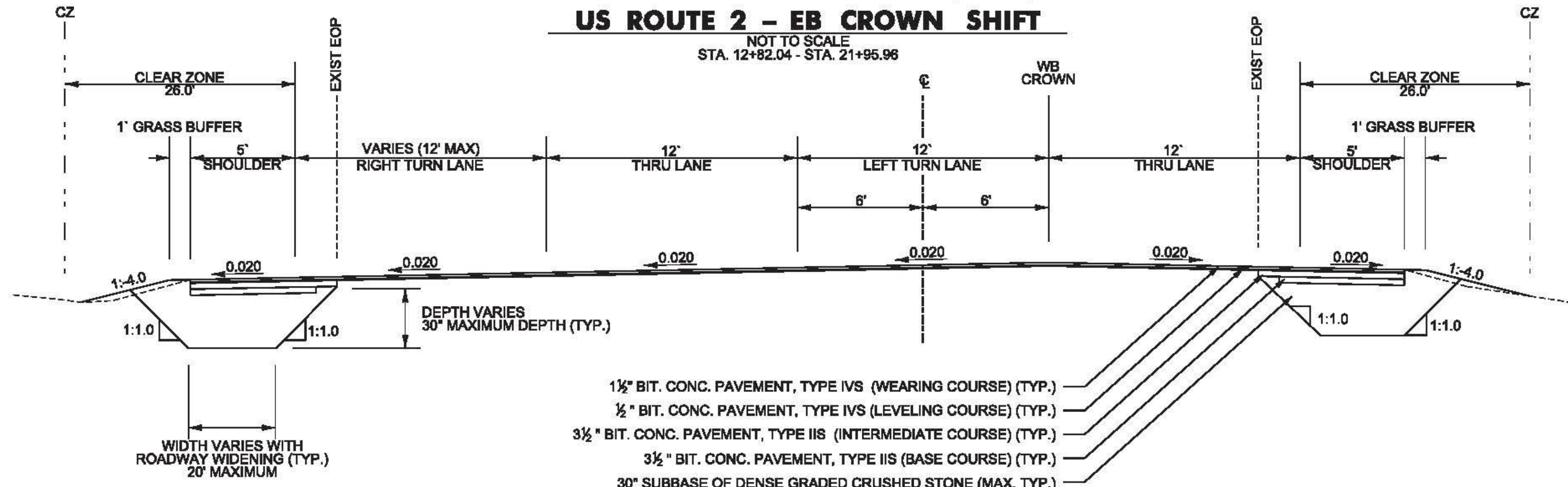
**US ROUTE 2 WIDENING**  
 WEARING COURSE: 1½" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS)  
 BASE COURSE: 3½" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)  
 INTERMEDIATE COURSE: 3½" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)  
 LEVELING COURSE: ½" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS)  
 30" SUBBASE OF DENSE GRADED CRUSHED STONE

**US ROUTE 2 OVERLAY**  
 COLD PLANING: 2"  
 LEVELING COURSE: ½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IVS)  
 WEARING COURSE: 1½" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS)



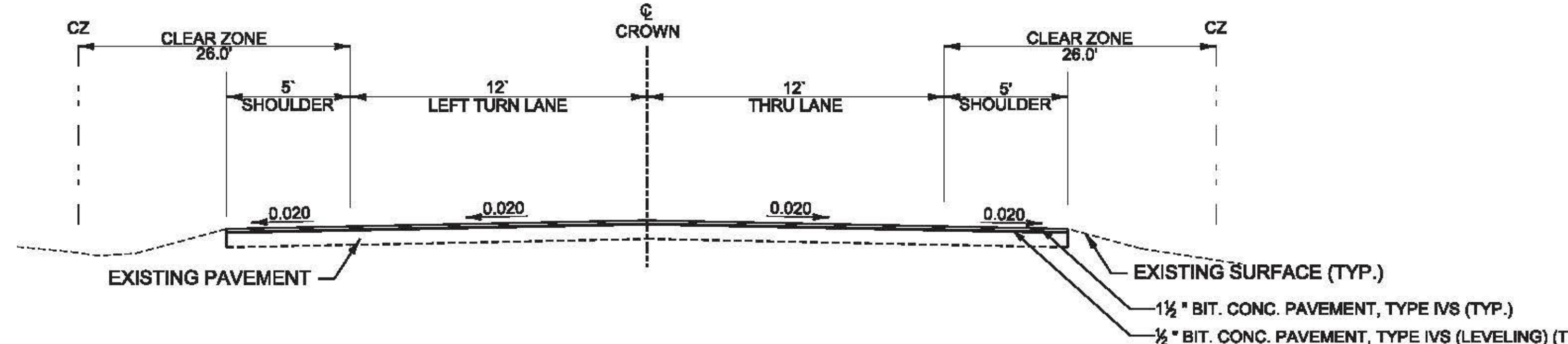
**US ROUTE 2 - EB CROWN SHIFT**

NOT TO SCALE  
 STA. 12+82.04 - STA. 21+95.96



**US ROUTE 2 - WB CROWN SHIFT**

NOT TO SCALE  
 STA. 21+95.96 - STA. 31+11.91



**US ROUTE 2 - NORMAL SECTION COLD PLANING APPROACH**

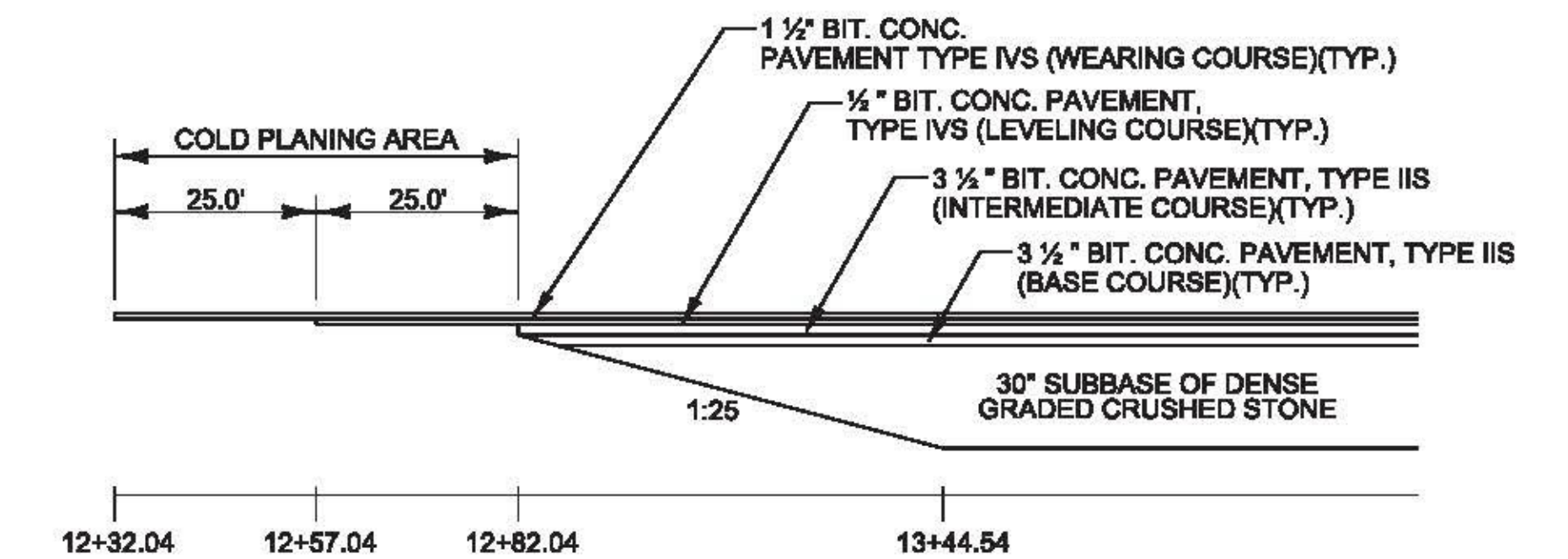
NOT TO SCALE  
 STA. 12+32.04 - STA. 12+82.04  
 STA. 31+11.91 - STA. 31+61.91

**SEEDING FORMULA**

SEE EPSC DETAILS SHEET 2 AND 3 FOR SEEDING FORMULA

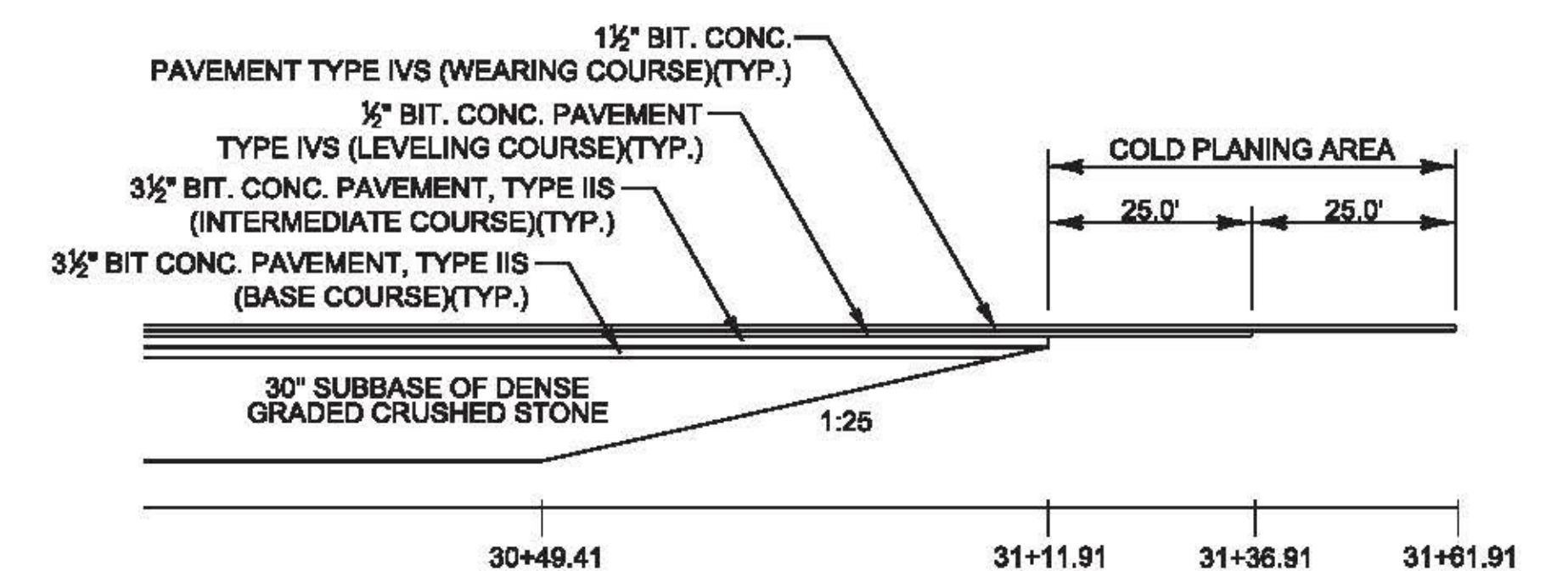
**GENERAL NOTES**

1. TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.080 GAL/SY ON COLD PLANED AND OVERLAYED SURFACES AND AT A RATE OF 0.025 TO 0.040 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER. EMULSIFIED ASPHALT WILL BE PAID FOR UNDER ITEM NUMBER 404.65.
2. MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER ITEM NUMBER 619.16.
3. SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD B-6.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE CASE OF DAMAGE, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
5. ALL WORK MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS AND IN THE CASE THERE ARE CONFLICTING REGULATIONS THE MORE CONSERVATIVE OR STRICTER REGULATION WILL TAKE PRECEDENCE.
6. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
7. THESE CONTRACT DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTOR'S RESPONSIBILITY.



**US ROUTE 2 BEGIN APPROACH MATERIAL TRANSITION DETAIL**

NOT TO SCALE



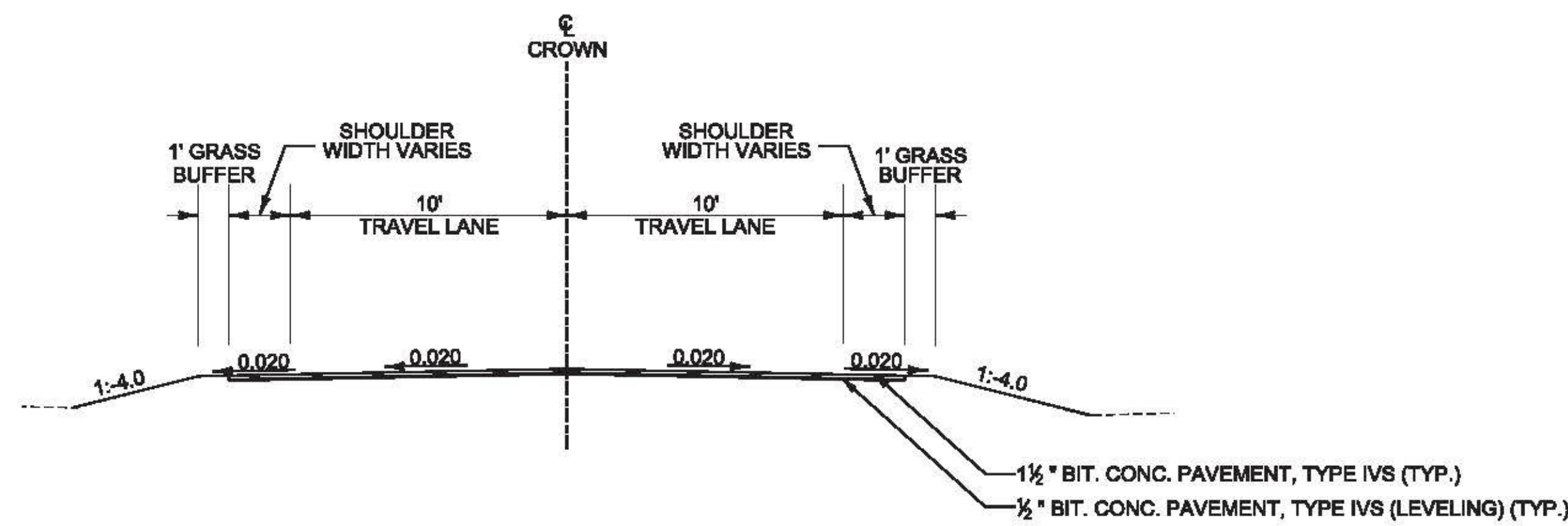
**US ROUTE 2 END APPROACH MATERIAL TRANSITION DETAIL**

NOT TO SCALE

PROJECT NAME:	COLCHESTER	FILE NAME:	t13b028frm.dgn	PLOT DATE:	12/15/2015
PROJECT NUMBER:	HES 028-I(28)	PROJECT LEADER:	P. COBURN	DRAWN BY:	M. BOGACZYK
		DESIGNED BY:	M. BOGACZYK	CHECKED BY:	M. LACROIX
		TYPICAL SECTION SHEET 1		SHEET	14 OF 91

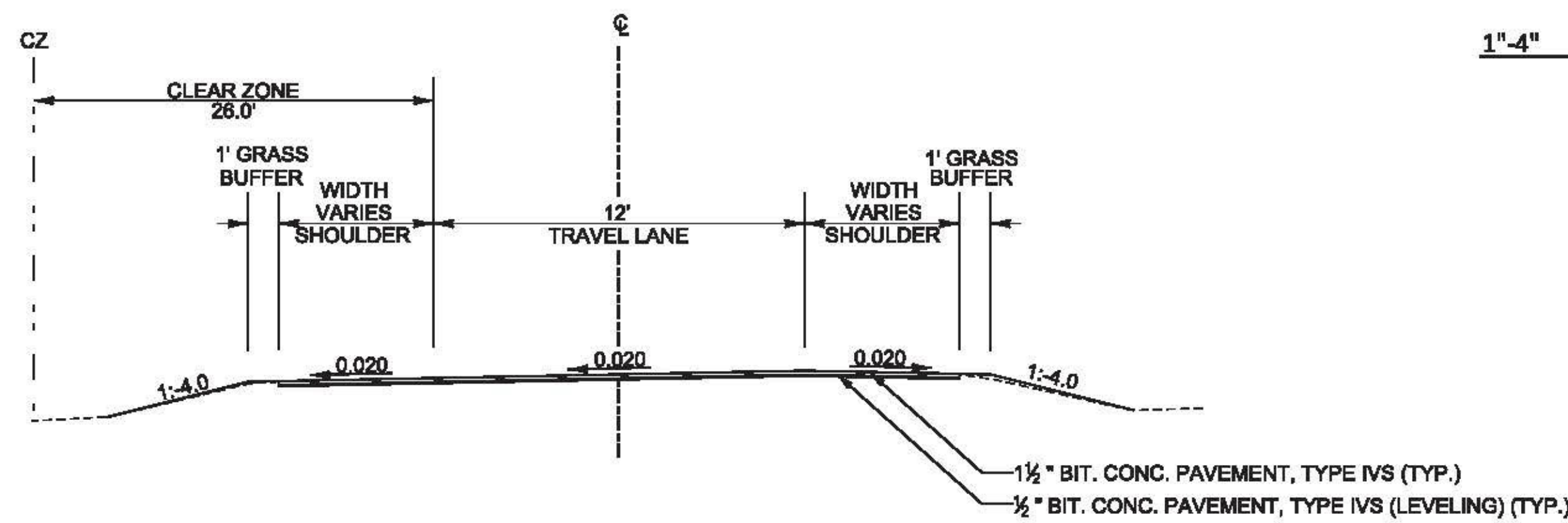
# TYPICAL SECTIONS

SIDE ROADS OVERLAY  
 COLD PLANING: 2"  
 LEVELING COURSE: ½" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS)  
 1½" BITUMINOUS CONCRETE PAVEMENT, TYPE IVS (TYP.)



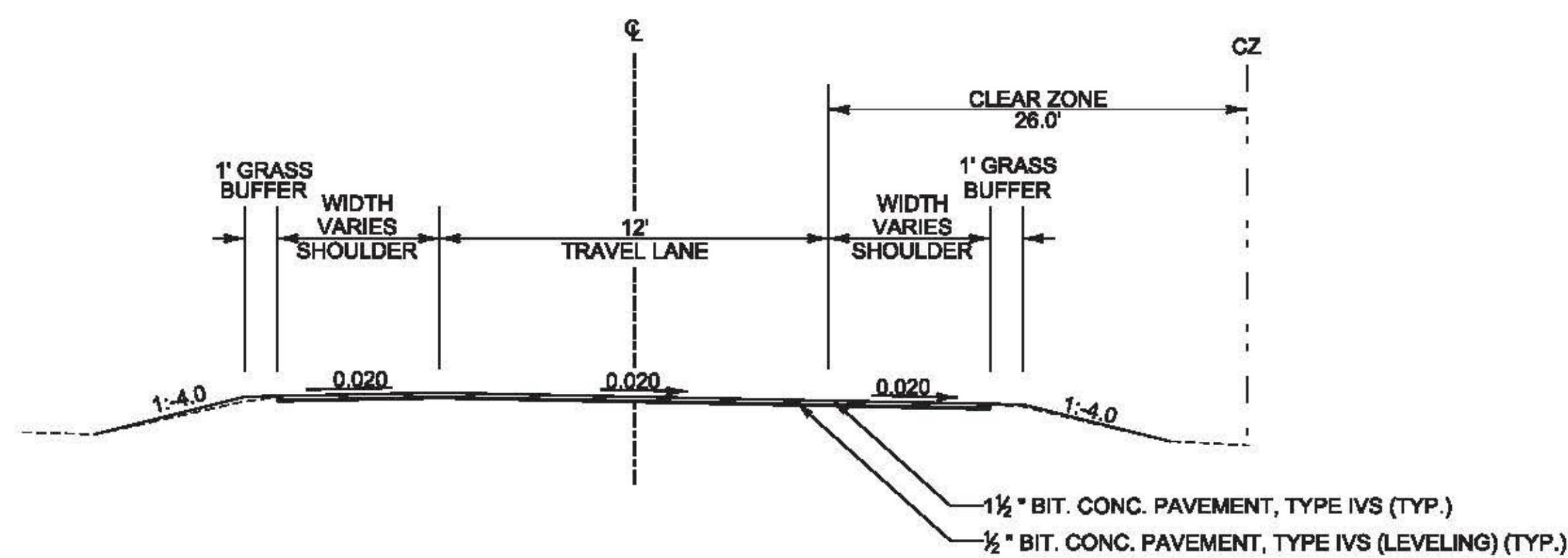
**CLAY POINT ROAD - COLD PLANING AND OVERLAY**

NOT TO SCALE  
 STA. 300+00.00 - STA. 302+53.93  
 STA. 302+99.64 - STA. 305+74.68



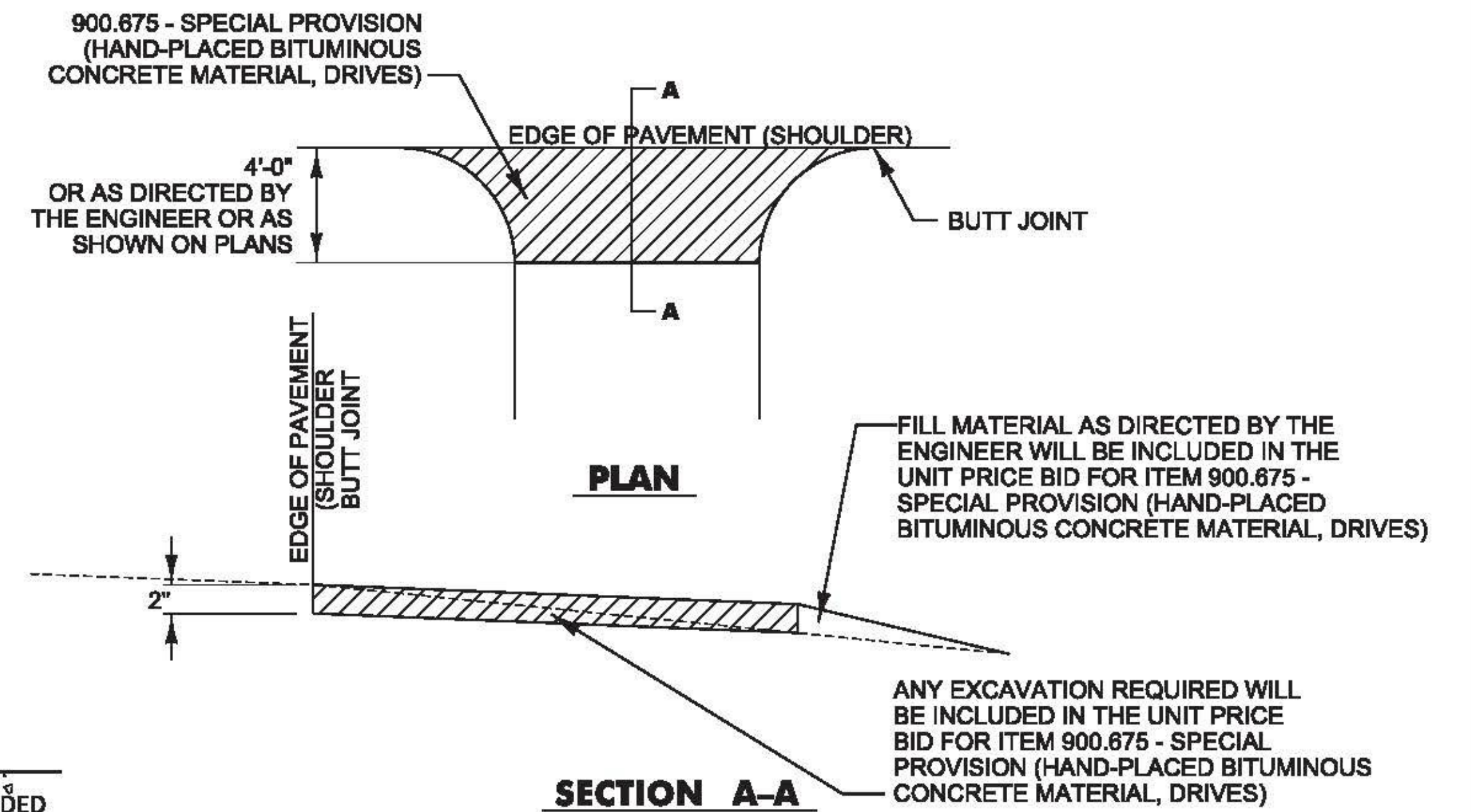
**WB TURN RAMP - COLD PLANING AND OVERLAY**

NOT TO SCALE  
 STA. 600+00.00 - STA. 603+94.87

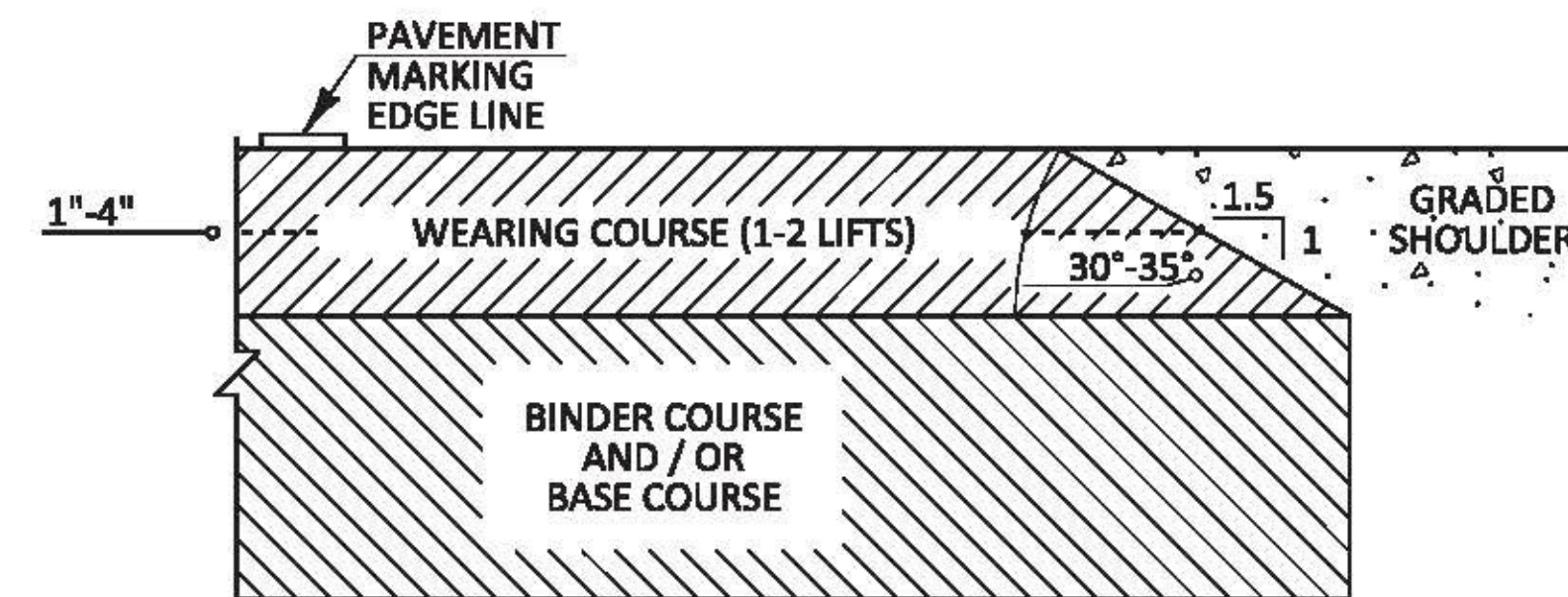


**EB TURN RAMP - COLD PLANING AND OVERLAY**

NOT TO SCALE  
 STA. 700+00.00 - STA. 703+91.80



**SECTION A-A**



**SAFETY EDGE DETAIL**  
 NOT TO SCALE

SAFETY EDGE NOTE:

1. LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.

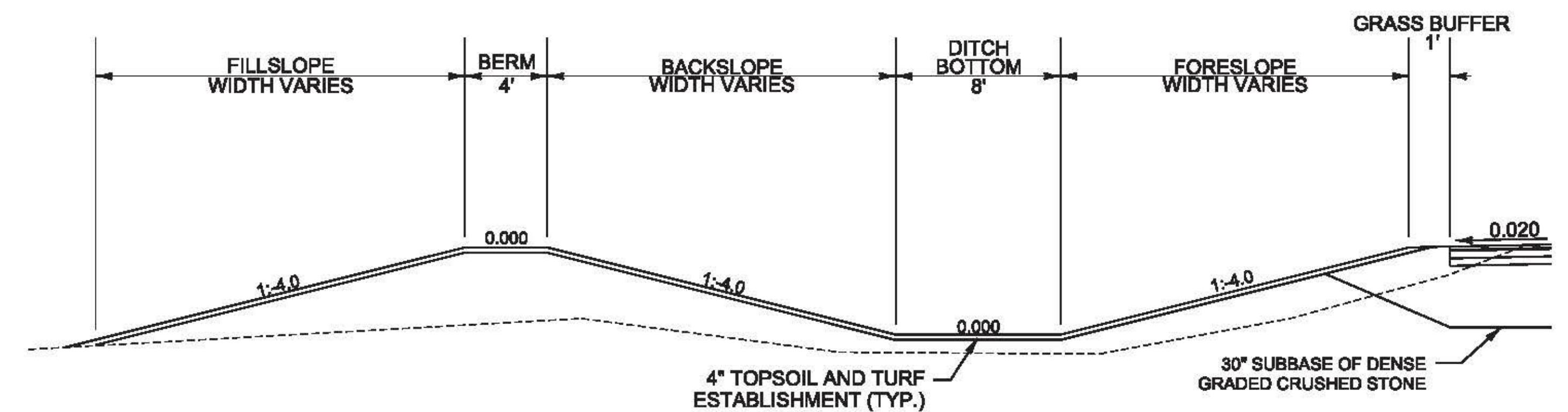
STATION	QUANTITY (SY)
300+25.00, RT	12.70 SY
300+65.00, RT	11.45 SY
300+70.00, LT	9.36 SY
304+75.00, LT	14.22 SY

**DRIVE LOCATION SUMMARY**

AREAS FOR 900.675 - SPECIAL PROVISION (HAND-PLACED BIT. CONC. MATERIAL, DRIVES)

**ITEM NO. 900.675 - SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)**

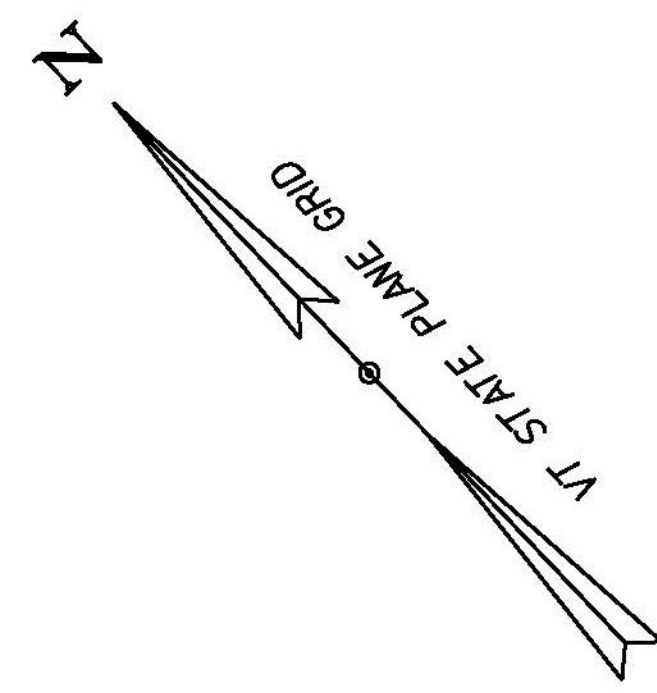
NOT TO SCALE



**GRASS CHANNEL DETAIL**

NOT TO SCALE  
 STA. 16+04.63, LT - STA. 21+33.96, LT

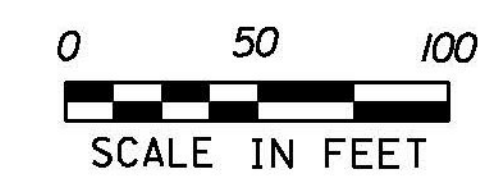
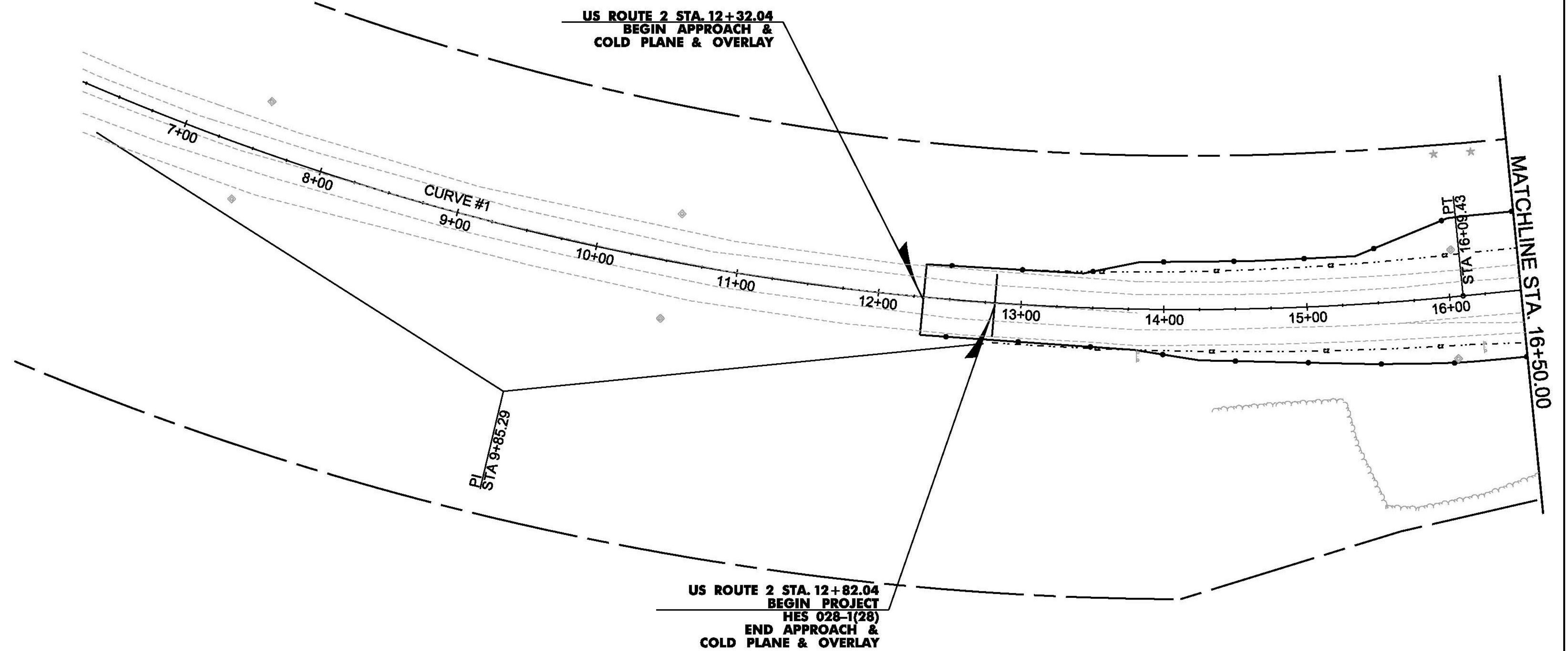
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028frm.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 15 OF 91
DESIGNED BY: M. BOGACZYK	
TYPICAL SECTION SHEET 2	



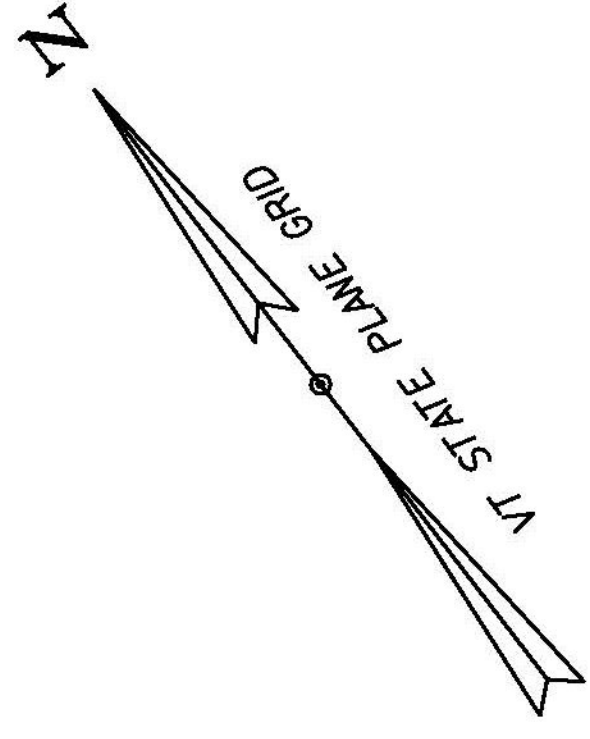
US ROUTE 2			
	STATION	NORTHING	EASTING
Element: Linear			
POB	0+00.00	767518.2178	1456906.4377
PC	3+10.95	767216.5782	1456981.9686
TANGENT DIRECTION:	S 14°03'28.37" E		
TANGENT LENGTH:	310.95		
Element: CURVE #1			
PC	3+10.95	767216.5782	1456987.9686
PI	9+85.29	766562.4318	1457145.7677
CC		767690.2371	1458873.5677
PT	16+09.43	766149.2188	1457678.6775
RADIUS:	1950		
DELTA:	38°09'08.91" Left		
DEGREE OF CURVATURE (ARC):	2°56'17.68"		
LENGTH:	1298.48		
TANGENT:	674.34		
CHORD:	1274.62		
MIDDLE ORDINATE:	107.09		
EXTERNAL:	113.31		
TANGENT DIRECTION:	S 14°03'28.37" E		
RADIAL DIRECTION:	S 75°56'31.63" W		
CHORD DIRECTION:	S 33°08'02.82" E		
RADIAL DIRECTION:	S 37°47'22.72" W		
TANGENT DIRECTION:	S 52°12'37.28" E		

**DATUM**

VERTICAL NAVD 88 ORTHO  
 HORIZONTAL NAD 83 (2011)



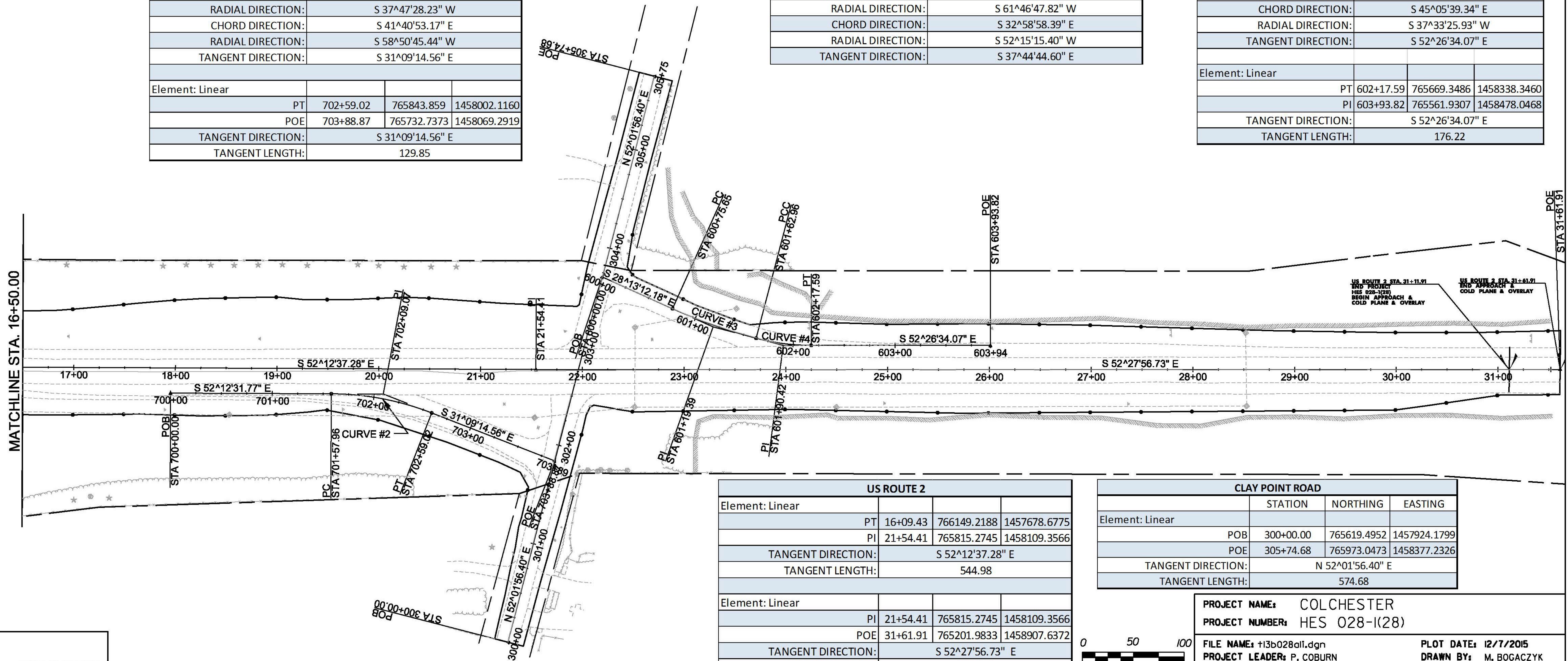
PROJECT NAME:	COLCHESTER	PLOT DATE:	12/7/2015
PROJECT NUMBER:	HES 028-1(28)	DRAWN BY:	M. BOGACZYK
FILE NAME:	+13b028all.dgn	CHECKED BY:	M. LACROIX
PROJECT LEADER:	P. COBURN	ALIGNMENT SHEET	1
DESIGNED BY:	M. BOGACZYK	SHEET	16 OF 91



US ROUTE 2 EAST RIGHT TURN LANE			
	STATION	NORTHING	EASTING
Element: Linear			
POB	700+00.00	766015.7073	1457810.4611
PC	701+57.96	765918.9089	1457935.2926
TANGENT DIRECTION:	S 52°12'31.77" E		
TANGENT LENGTH:	157.96		
Element: CURVE #2			
PC	701+57.96	765918.9089	1457935.2926
PI	702+09.07	765887.593	1457975.6777
CC	705+59.02	765701.5903	1457766.7766
PT	702+59.02	765843.859	1458002.1160
RADIUS:	275		
DELTA:	21°03'17.21" Right		
DEGREE OF CURVATURE (ARC):	20°50'05.38"		
LENGTH:	101.06		
TANGENT:	51.1		
CHORD:	100.49		
MIDDLE ORDINATE:	4.63		
EXTERNAL:	4.71		
TANGENT DIRECTION:	S 52°12'31.77" E		
RADIAL DIRECTION:	S 37°47'28.23" W		
CHORD DIRECTION:	S 41°40'53.17" E		
RADIAL DIRECTION:	S 58°50'45.44" W		
TANGENT DIRECTION:	S 31°09'14.56" E		
Element: Linear			
PT	702+59.02	765843.859	1458002.1160
POE	703+88.87	765732.7373	1458069.2919
TANGENT DIRECTION:	S 31°09'14.56" E		
TANGENT LENGTH:	129.85		

US ROUTE 2 WEST RIGHT TURN LANE			
	STATION	NORTHING	EASTING
Element: Linear			
POB	600+00.00	765847.6207	1458216.507
PC	600+75.65	765780.9662	1458252.277
TANGENT DIRECTION:	S 28°13'12.18" E		
TANGENT LENGTH:	75.65		
Element: CURVE #3			
PC	600+75.65	765780.9662	1458252.2769
PI	601+19.39	765742.423	1458272.9610
CC	602+17.59	766029.2172	1458714.8744
PT	601+62.93	765707.8342	1458299.7384
RADIUS:	525		
DELTA:	9°31'32.42" Left		
DEGREE OF CURVATURE (ARC):	10°54'48.53"		
LENGTH:	87.28		
TANGENT:	43.74		
CHORD:	87.18		
MIDDLE ORDINATE:	1.81		
EXTERNAL:	1.82		
TANGENT DIRECTION:	S 28°13'12.18" E		
RADIAL DIRECTION:	S 61°46'47.82" W		
CHORD DIRECTION:	S 32°58'58.39" E		
RADIAL DIRECTION:	S 52°15'15.40" W		
TANGENT DIRECTION:	S 37°44'44.60" E		

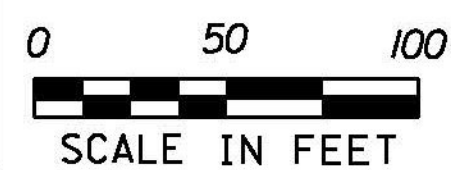
US ROUTE 2 WEST RIGHT TURN LANE			
	STATION	NORTHING	EASTING
Element: Linear			
PT	601+62.93	765707.8342	1458299.7384
PI	601+62.96	765707.8136	1458299.7542
TANGENT DIRECTION:	S 37°44'44.60" E		
TANGENT LENGTH:	0.03		
Element: CURVE #4			
PC	601+62.96	765707.8136	1458299.7542
PI	601+90.42	765686.0926	1458316.5698
CC	602+17.59	765838.2033	1458468.1809
PT	602+17.59	765669.3486	1458338.3460
RADIUS:	213		
DELTA:	14°41'49.48" Left		
DEGREE OF CURVATURE (ARC):	26°53'57.94"		
LENGTH:	54.64		
TANGENT:	27.47		
CHORD:	54.49		
MIDDLE ORDINATE:	1.75		
EXTERNAL:	1.76		
TANGENT DIRECTION:	S 37°44'44.60" E		
RADIAL DIRECTION:	S 52°15'15.40" W		
CHORD DIRECTION:	S 45°05'39.34" E		
RADIAL DIRECTION:	S 37°33'25.93" W		
TANGENT DIRECTION:	S 52°26'34.07" E		
Element: Linear			
PT	602+17.59	765669.3486	1458338.3460
PI	603+93.82	765561.9307	1458478.0468
TANGENT DIRECTION:	S 52°26'34.07" E		
TANGENT LENGTH:	176.22		



**DATUM**  
 VERTICAL NAVD 88 ORTHO  
 HORIZONTAL NAD 83 (2011)

US ROUTE 2			
	STATION	NORTHING	EASTING
Element: Linear			
PT	16+09.43	766149.2188	1457678.6775
PI	21+54.41	765815.2745	1458109.3566
TANGENT DIRECTION:	S 52°12'37.28" E		
TANGENT LENGTH:	544.98		
Element: Linear			
PI	21+54.41	765815.2745	1458109.3566
POE	31+61.91	765201.9833	1458907.6372
TANGENT DIRECTION:	S 52°27'56.73" E		
TANGENT LENGTH:	1007.50		

CLAY POINT ROAD			
	STATION	NORTHING	EASTING
Element: Linear			
POB	300+00.00	765619.4952	1457924.1799
POE	305+74.68	765973.0473	1458377.2326
TANGENT DIRECTION:	N 52°01'56.40" E		
TANGENT LENGTH:	574.68		



**PROJECT NAME:** COLCHESTER  
**PROJECT NUMBER:** HES 028-(K28)  
**FILE NAME:** i13b028all.dgn  
**PROJECT LEADER:** P. COBURN  
**DESIGNED BY:** M. BOGACZYK  
**ALIGNMENT SHEET:** 2  
**PLOT DATE:** 12/7/2015  
**DRAWN BY:** M. BOGACZYK  
**CHECKED BY:** M. LACROIX  
**SHEET:** 17 OF 91

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-101</b>		
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1		
						Pin No.: 13B028		
						Checked By: LAR		
Boring Crew: SALISBURY, JUDKINS		Type: WB SS		Groundwater Observations				
Date Started: 6/13/13 Date Finished: 6/13/13		I.D.: 4 in 1.5 in		Date	Depth (ft)	Notes		
VTSPG NAD83: N 766112.10 ft E 1457765.82 ft		Hammer Wt: N.A. 140 lb.		06/13/13	6.6	While drilling.		
Station: 17+00 Offset: -25.00		Hammer Fall: N.A. 30 in.		06/13/13	10.8	30 min. later		
Ground Elevation: 186.54 ft		Hammer/Rod Type: Auto/AWJ						
		Rig: CME 55 TRACK C _r = 1.46						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Visual Description: Topsoil with Gravely Sand, Dk/brn, Moist, Rec. = 0.4 ft		1-8-11-10 (19)	19.0			
0.4		A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft, Broken Rock was within sample.		18-16-13-11 (29)	5.8	26.5	66.0	7.5
1.8		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft		7-7-6-7 (13)	16.0	16.3	51.6	32.1
2.9		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft		3-6-5-6 (11)	18.4	0.7	82.8	16.5
4.0		A-4, SiSa, brn, Moist, Rec. = 0.7 ft, Broken Rock was within sample.		2-4-3-4 (7)	23.9	12.7	46.6	40.7
4.7		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft		3-3-6-9 (9)	18.4	8.0	60.0	32.0
5.9								
7.1		A-3, Sa, brn, MTW, Rec. = 0.7 ft		3-2-3-1 (5)	24.7	0.4	90.5	9.1
7.8								
8.5		A-3, Sa, brn, MTW, Rec. = 1.1 ft		7-9-9-8 (18)	18.2	2.5	88.2	9.3
9.6								
10.7		A-2-4, Sa, brn, MTW, Rec. = 1.0 ft, Broken Rock was within sample.		1-2-6-4 (8)	24.8	2.7	81.4	15.9
11.7								
12.7		A-4, SiSa, gry, Wet, Rec. = 0.5 ft		4-4-4-4 (8)	23.9	0.8	55.2	44.0
13.2								
13.7		A-4, SaSi, gry, Wet, Rec. = 1.2 ft		3-4-3-4 (7)	25.0	0.1	30.6	69.3
14.9								
16.1		A-4, Si, gry, Wet, Rec. = 1.1 ft		2-5-5-5 (10)	26.0		16.8	83.2
17.2								
18.3	Hole stopped @ 42.0 ft							
45	Remarks: Hole collapsed at 18.3 ft.							
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.								

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-102</b>		
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1		
						Pin No.: 13B028		
						Checked By: LAR		
Boring Crew: JUDKINS, GARROW		Type: WB SS		Groundwater Observations				
Date Started: 6/19/13 Date Finished: 6/19/13		I.D.: 4 in 1.5 in		Date	Depth (ft)	Notes		
VTSPG NAD83: N 765942.03 ft E 1457886.96 ft		Hammer Wt: N.A. 140 lb.		06/19/13	15.0	While drilling.		
Station: 19+00 Offset: 35.00		Hammer Fall: N.A. 30 in.						
Ground Elevation: 186.96 ft		Hammer/Rod Type: Auto/AWJ						
		Rig: CME 55 TRACK C _r = 1.46						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Visual Description: Topsoil with sand, brn, Moist, Rec. = 1.2 ft		1-2-4-6 (6)	13.1			
1.2		A-2-4, Sa, brn, Moist, Rec. = 1.9 ft		5-8-9-10 (17)	8.0	3.7	83.2	13.1
3.1		A-3, Sa, brn, Moist, Rec. = 1.1 ft		6-6-6-6 (12)	13.3	8.6	83.7	7.7
4.2		A-3, Sa, brn, MTW, Rec. = 1.0 ft		3-3-4-3 (7)	19.5	2.0	94.0	4.0
5.2		Field Note: No Recovery		WH-7-7-9 (14)				
6.2		A-3, Sa, brn, MTW, Rec. = 1.2 ft		5-7-6-7 (13)	21.4		92.3	7.7
7.4								
8.6		A-4, SaSi, gry, Wet, Rec. = 1.0 ft		1-1-1-1 (2)	30.7		38.1	61.9
9.6								
10.6		A-4, SiSa, gry, Wet, Rec. = 1.4 ft		4-5-4-5 (9)	24.6		64.4	35.6
12.0								
13.4		A-3, Sa, gry, Wet, Rec. = 1.0 ft		11-7-10-WH (17)	22.6		92.6	7.4
14.4								
15.4		A-3, Sa, gry, MTW, Rec. = 1.2 ft		4-3-4-8 (7)	28.3	0.2	91.4	8.4
16.6								
17.8		A-4, SiSa, gry, MTW, Rec. = 1.5 ft		5-6-8-10 (14)	25.8		61.2	38.8
19.3								
20.8		A-2-4, SiSa, gry, MTW, Rec. = 1.7 ft		4-5-5-8 (10)	26.1		77.4	22.6
22.5								
42.0	Hole stopped @ 42.0 ft							
45	Remarks: Hole collapsed at 27.6 ft.							
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.								

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
BORING LOG SHEET 1	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET 18	OF 91

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-103</b>			
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1			
						Pin No.: 13B028			
						Checked By: LAR			
Boring Crew: JUDKINS, HALL		Casing: WB		Sampler: SS		Groundwater Observations			
Date Started: 6/12/13 Date Finished: 6/12/13		I.D.: 4 in 1.5 in		Date		Depth (ft)			
VTSPG NAD83: N 765866.72 ft E 1458081.71 ft		Hammer Wt: N.A. 140 lb.		06/12/13		12.0			
Station: 21+00 Offset: -25.00		Hammer Fall: N.A. 30 in.		06/13/13		No water present.			
Ground Elevation: 188.57 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK C _r = 1.46							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
0		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft		1-1-1-3 (2)	14.4	9.6	76.6	13.8	
5		A-3, Sa, brn, Moist, Rec. = 1.7 ft		3-6-7-8 (13)	9.3	2.1	91.0	6.9	
		A-3, Sa, brn, Moist, Rec. = 1.1 ft		3-5-4-5 (9)	14.7	9.9	84.4	5.7	
		A-3, Sa, brn, MTW, Rec. = 1.0 ft		2-3-3-4 (6)	23.0	2.0	94.3	3.7	
		A-3, Sa, brn, Moist, Rec. = 1.1 ft		1-4-6-8 (10)	19.8	3.8	91.2	5.0	
10		A-3, Sa, brn, Moist, Rec. = 1.3 ft, Lost water return at 10.0 ft.		2-3-4-5 (7)	23.5	0.1	97.0	2.9	
15		A-2-4, Sa, brn, Moist, Rec. = 0.9 ft		3-2-3-2 (5)	25.3		84.1	15.9	
20		A-4, SiSa, brn, Moist, Rec. = 1.1 ft		1-2-2-1 (4)	26.8		60.5	39.5	
25		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft		1-2-3-3 (5)	25.7		69.5	30.5	
30		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft		3-4-4-4 (8)	25.8		68.0	32.0	
35		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft		3-3-4-2 (7)	25.2		67.5	32.5	
40		A-4, Si, brn, Moist, Rec. = 1.7 ft		2-1-2-3 (3)	27.9	0.5	19.2	80.3	
		Hole stopped @ 42.0 ft							
		Remarks: Hole collapsed at 16.6 ft.							
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.									

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

VTTrans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-104</b>			
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1			
						Pin No.: 13B028			
						Checked By: LAR			
Boring Crew: GARROW, JUDKINS		Casing: WB		Sampler: SS		Groundwater Observations			
Date Started: 6/06/13 Date Finished: 6/10/13		I.D.: 4 in 1.5 in		Date		Depth (ft)			
VTSPG NAD83: N 765777.69 ft E 1458198.33 ft		Hammer Wt: N.A. 140 lb.		06/10/13		9.6			
Station: 22+47 Offset: -25.00		Hammer Fall: N.A. 30 in.							
Ground Elevation: 189.94 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK C _r = 1.46							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
0		Visual Description: Topsoil wit Silty Sand, Dk/brn, Moist, Rec. = 0.5 ft		1-5-9-8 (14)	15.6				
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft		5-5	5.5	35.6	53.6	10.8	
		A-2-4, Sa, brn, Moist, Rec. = 1.8 ft		5-9-8-8 (17)	8.0	3.6	79.9	16.5	
5		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft		5-6-4-5 (10)	14.8	1.8	76.5	21.7	
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft		5-5-4-4 (9)	17.2	13.7	53.9	32.4	
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft		2-4-3-4 (7)	21.7		73.3	26.7	
10		A-4, Si, brn, Moist, Rec. = 1.2 ft		3-4-4-5 (8)	28.9		7.3	92.7	
15		A-4, Si, brn, MTW, Rec. = 0.7 ft		1-3-2-2 (5)	28.1	0.4	7.0	92.6	
20		A-4, SaSi, brn, Wet, Rec. = 1.2 ft		1-3-1-2 (4)	26.4		21.1	78.9	
25		A-4, Si, brn, MTW, Rec. = 0.7 ft		WR-3-2-1 (5)	26.3	0.3	9.6	90.1	
30		A-4, Si, brn, Wet, Rec. = 1.0 ft		1-2-2-1 (4)	27.9	0.7	19.9	79.4	
35		A-4, Si, brn-gry, Wet, Rec. = 1.5 ft, Lab Note: A very thin layer of clay was noticeable.		1-2-1-2 (3)	26.8		2.9	97.1	
40		A-4, Si, gry, Wet, Rec. = 1.3 ft		3-2-1-2 (3)	26.3		13.0	87.0	
		Hole stopped @ 42.0 ft							
		Remarks: Hole collapsed at 12.9 ft.							
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.									

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
BORING LOG SHEET 2	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET 19 OF 91	

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-105</b>			
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1			
						Pin No.: 13B028			
						Checked By: LAR			
Boring Crew: SALISBURY, JUDKINS, HALL		Type: WB		Casing		Sampler			
Date Started: 6/18/13 Date Finished: 6/18/13		I.D.: 4 in		1.5 in		SS			
VTSPG NAD83: N 765671.65 ft E 1458246.92 ft		Hammer Wt: N.A.		140 lb.		Groundwater Observations			
Station: 23+50 Offset: 30.00		Hammer Fall: N.A.		30 in.		Date			
Ground Elevation: 191.68 ft		Hammer/Rod Type: Auto/AWJ		C _c = 1.46		Depth (ft)			
						Notes			
						06/18/13 5.0 While drilling.			
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	Visual Description: Topsoil with sand, brn, Moist, Rec. = 0.8 ft				1-1-5-5 (6)	19.7			
	A-2-4, Sa, brn, Moist, Rec. = 0.6 ft					8.8	9.4	78.3	12.3
2.5	A-2-4, Sa, brn, Moist, Rec. = 1.0 ft				6-11-35-23 (46)	11.9	9.1	75.7	15.2
	Lab Note, Broken Rock, pink, Moist, Rec. = 0.8 ft					1.5	77.5	17.9	4.6
5.0	Lab Note, Broken Rock, pink, Moist, Rec. = 0.7 ft								
	6.0 ft - 11.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	40 (0)	1					
7.5				1					
				2					
10.0				2					
				3					
11.0 ft - 16.0 ft	11.0 ft - 16.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	2 (0)	78 (14)	3					
12.5				4					
				5					
15.0				4					
				6					
Hole stopped @ 16.0 ft									
Remarks: Hole collapsed at 8.0 ft.									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _c is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.									

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-106</b>			
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1			
						Pin No.: 13B028			
						Checked By: LAR			
Boring Crew: GARROW, JUDKINS, HALL		Type: WB		Casing		Sampler			
Date Started: 6/05/13 Date Finished: 6/05/13		I.D.: 4 in		1.5 in		SS			
VTSPG NAD83: N 765658.27 ft E 1458362.77 ft		Hammer Wt: N.A.		140 lb.		Groundwater Observations			
Station: 24+50 Offset: -30.00		Hammer Fall: N.A.		30 in.		Date			
Ground Elevation: 193.86 ft		Hammer/Rod Type: Auto/AWJ		C _c = 1.46		Depth (ft)			
						Notes			
						06/05/13 5.0 While drilling.			
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	Visual Description: Topsoil with sand, brn, Moist, Rec. = 0.7 ft				1-6-6-7 (12)	13.1			
2.5	A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft								
	A-1-a, Gr, brn-gry, Moist, Rec. = 0.6 ft, Lots of Broken Rock was within sample.				5-30-R@6.0" (R)	7.8	49.2	36.3	14.5
						1.4	74.0	19.3	6.7
5.0	Visual Description: SaGr, brn, Moist, Rec. = 0.6 ft, Lots of Broken Rock was within sample. Similar material as 6-8 ft.								
					25-25-17-6 (42)	9.1			
7.5	A-1-a, Gr, brn, Moist, Rec. = 0.2 ft, Lots of Broken Rock was within sample. Combined 4'-6', 6'-8', & 8'-10' samples to get a sufficient sample for testing.								
					3-3-3-3 (6)	6.7	76.2	15.4	8.4
10.0	Visual Description: SaGr, brn, Moist, Rec. = 0.3 ft, Lots of Broken Rock was within sample. Similar material as 6-8 ft.								
					7-4-3-2 (7)	6.8			
12.5	A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Broken Rock was within sample. Lost water return at 10.0 ft.								
					5-4-4-13 (8)	8.7	59.1	25.9	15.0
12.5 ft - 13.5 ft	12.5 ft - 13.5 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	90 (0)	6					
13.5 ft - 17.5 ft	13.5 ft - 17.5 ft, Pink-mottled, Dolomite, Moderately hard, Slightly weathered, Fair rock, BXMDC, RMR = 52	2 (0)	88 (35)	4					
15.0				5					
				5					
17.5				5					
Hole stopped @ 17.5 ft									
Remarks: Hole collapsed at 7.0 ft.									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _c is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.									

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
BORING LOG SHEET 3	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET	20 OF 91

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-107</b>				
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1				
						Pin No.: 13B028				
						Checked By: LAR				
Boring Crew: SALISBURY, JUDKINS		Casing		Sampler		Groundwater Observations				
Date Started: 6/17/13 Date Finished: 6/18/13		Type: WB		SS		Date				
VTSPG NAD83: N 765549.75 ft E 1458405.47 ft		I.D.: 4 in		1.5 in		Depth (ft)				
Station: 25+50 Offset: 30.00		Hammer Wt: N.A.		140 lb.		Notes				
Ground Elevation: 196.5 ft		Hammer Fall: N.A.		30 in.		No water showing.				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK		C _r = 1.46						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		A-2-4, GrSa, brn, Moist, Rec. = 1.5 ft				1-1-4-10 (5)	13.6	25.2	60.2	14.6
2.5		Visual Description: Broken Rock, pink, Moist, Rec. = 1.1 ft, Material similar as 4-6 ft.				27-20-17-18 (37)	2.2			
5.0		Lab Note, Broken Rock, pink, Moist, Rec. = 0.5 ft				11-16-20-22 (36)	6.3	68.6	23.7	7.7
7.5		Visual Description: Broken Rock, pink-gry, MTW, Rec. = 1.1 ft, Material similar as 4-6 ft.				10-13-16-21 (29)	5.2			
8.0		8.0 ft - 12.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47	1 (0)	43 (0)	2					
10.0										
12.5		12.0 ft - 17.0 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 57	2 (0)	92 (60)	2					
15.0										
17.5		Hole stopped @ 17.0 ft								
		Remarks: Hole collapsed at 8.6 ft.								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _r is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-108</b>				
				COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1				
						Pin No.: 13B028				
						Checked By: LAR				
Boring Crew: GARROW, JUDKINS, HALL		Casing		Sampler		Groundwater Observations				
Date Started: 6/03/13 Date Finished: 6/04/13		Type: WB		SS		Date				
VTSPG NAD83: N 765536.36 ft E 1458521.32 ft		I.D.: 4 in		1.5 in		Depth (ft)				
Station: 26+50 Offset: -30.00		Hammer Wt: N.A.		140 lb.		Notes				
Ground Elevation: 201.13 ft		Hammer Fall: N.A.		30 in.		06/03/13 7.4 While drilling.				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK		C _r = 1.46						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.4		Visual Description: Topsoil with Gravely Sand, Dk/brn, Moist, Rec. = 0.4 ft				1-4-13-8 (17)	15.8			
0.3		Visual Description: Sand with Broken Rock, brn, Moist, Rec. = 0.3 ft					8.2			
2.5		A-1-a, Gr, pink-gry, Moist, Rec. = 1.3 ft, Lots of Broken Rock was within sample.				8-24-46-R@4.5" (70)	1.2	75.2	18.9	5.9
5.0		A-1-a, Gr, pink-gry, Moist, Rec. = 0.9 ft, Lots of Broken Rock was within sample.				22-17-R@5.0" (R)	4.6	76.7	17.8	5.5
7.5		A-1-a, Gr, pink-gry, Moist, Rec. = 1.0 ft, Lots of Broken Rock was within sample.				30-22-R@5.0" (R)	6.5	74.1	19.6	6.3
8.2		Field Note: No Recovery				R@2.5"				
8.2		8.2 ft - 13.2 ft, Pink-mottled, And light gray Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 47	1 (0)	80 (18)	5					
10.0										
12.5										
15.0		13.2 ft - 18.2 ft, Pink-mottled, And light gray Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 52	2 (0)	100 (46)	5					
17.5										
18.2		Hole stopped @ 18.2 ft								
20.0		Remarks: Hole collapsed at 7.0 ft.								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _r is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
BORING LOG SHEET 4	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET 21 OF 91	


VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-109							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Pin No.: 13B028							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Checked By: LAR							
Boring Crew: SALISBURY, JUDKINS, HALL				Casing		Sampler							
Date Started: 6/17/13 Date Finished: 6/17/13				Type: WB		SS							
VTSPG NAD83: N 765427.84 ft E 1458564.03 ft				I.D.: 4 in		1.5 in							
Station: 27+50 Offset: 30.00				Hammer Wt: N.A.		140 lb.							
Ground Elevation: 201.35 ft				Hammer Fall: N.A.		30 in.							
				Hammer/Rod Type: Auto/AWJ									
				Rig: CME 55 TRACK		C _r = 1.46							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)						Groundwater Observations					
		Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	Date	Depth (ft)	Notes	
2.5 5.0 7.5 10.0 12.5 15.0	[Stratigraphic Column]	Visual Description: Topsoil with sand, brn, Moist, Rec. = 0.8 ft											
		Lab Note, Broken Rock, pink, Moist, Rec. = 0.6 ft											
		Visual Description: Broken Rock, pink, Moist, Rec. = 0.9 ft, Lost water return. Material similar as 1-2 ft.											
		Lab Note, Broken Rock, pink, Moist, Rec. = 0.9 ft											
		Visual Description: Broken Rock, pink, MTW, Rec. = 0.5 ft, Material similar as 4-6 ft.											
		Visual Description: Broken Rock, pink, MTW, Rec. = 0.6 ft, Material similar as 4-6 ft.											
		Visual Description: Broken Rock, pink, Moist, Rec. = 0.6 ft, Material similar as 4-6 ft.											
		NXDC, 10.7 ft - 11.0 ft											
		11.0 ft - 16.0 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 57						1 (0)	90 (60)	3			
		Hole stopped @ 16.0 ft											
Remarks:		Hole collapsed at 5.6 ft.											
Notes:													

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-110							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Page No.: 1 of 1							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Pin No.: 13B028							
VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		COLCHESTER HES 028-1(28) US-2 ROADWAY		Checked By: LAR							
Boring Crew: GARROW, JUDKINS, HALL				Casing		Sampler							
Date Started: 5/31/13 Date Finished: 6/03/13				Type: WB		SS							
VTSPG NAD83: N 765383.98 ft E 1458719.51 ft				I.D.: 4 in		1.5 in							
Station: 29+00 Offset: -30.00				Hammer Wt: N.A.		140 lb.							
Ground Elevation: 205.09 ft				Hammer Fall: N.A.		30 in.							
				Hammer/Rod Type: Auto/AWJ									
				Rig: CME 55 TRACK		C _r = 1.46							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)						Groundwater Observations					
		Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	Date	Depth (ft)	Notes	
2.5 5.0 7.5 10.0 12.5 15.0	[Stratigraphic Column]	Visual Description: Topsoil, brn, Moist, Rec. = 0.5 ft											
		A-3, Sa, brn, Moist, Rec. = 0.4 ft											
		A-1-a, SaGr, pink-brn, Moist, Rec. = 0.4 ft, Broken Rock was within sample.											
		A-1-a, SaGr, pink, Moist, Rec. = 1.4 ft, Lots of Broken Rock was within sample.											
		A-1-a, SaGr, white, Moist, Rec. = 1.0 ft, Broken Rock was within sample.											
		A-1-a, Gr, white-pink, Moist, Rec. = 0.4 ft, Mostly Broken Rock											
		6.5 ft - 11.5 ft, Pink-mottled, Dolomite, Moderately hard, Unweathered, Good rock, BXGDC, RMR = 61						1 (0)	86 (76)	2			
		11.5 ft - 16.5 ft, Pink-mottled, And light gray Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, RMR = 47						2 (0)	52 (0)	5			
		Hole stopped @ 16.5 ft											
		Remarks:		Hole collapsed at 11.0 ft.									
Notes:													

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AOT.GDT 7/8/13

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
BORING LOG SHEET 5	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET	22 OF 91

 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		<b>BORING LOG</b>		Boring No.: <b>B-111</b>						
		<b>COLCHESTER</b> <b>HES 028-1(28)</b> <b>US-2 ROADWAY</b>		Page No.: 1 of 1						
Boring Crew: <b>SALISBURY, JUDKINS</b> Date Started: <b>6/14/13</b> Date Finished: <b>6/14/13</b> VTSPG NAD83: <b>N 765244.99 ft E 1458801.86 ft</b> Station: <b>30+50</b> Offset: <b>30.00</b> Ground Elevation: <b>209.2 ft</b>		Casing Type: <b>WB</b> Sampler: <b>SS</b> I.D.: <b>4 in</b> <b>1.5 in</b> Hammer Wt: <b>N.A.</b> <b>140 lb.</b> Hammer Fall: <b>N.A.</b> <b>30 in.</b> Hammer/Rod Type: <b>Auto/AWJ</b> Rig: <b>CME 55 TRACK</b> <b>C_c = 1.46</b>		Pin No.: <b>13B028</b> Checked By: <b>LAR</b>						
		<b>Groundwater Observations</b>								
				Date	Notes					
					No water showing.					
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Description: Topsoil with sand, Dk/brn, Moist, Rec. = 0.4 ft				1-2-2-4 (4)	22.8			
		A-2-4, GrSa, brn, Moist, Rec. = 0.4 ft					10.5	20.0	63.9	16.1
		A-2-4, Sa, brn, Moist, Rec. = 0.4 ft					10.4	18.3	63.0	18.7
2.5		Lab Note, Mostly Broken & Pulverized Rock, brn-gry, Moist, Rec. = 1.1 ft				10-25- 19- R@1.0" (44)	4.1	52.2	32.5	15.3
		Field Note: No Recovery				R@2.5" (R)				
5.0		4.2 ft - 9.2 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXGDC, RMR = 47	1 (0)	100 (0)	2					
					6					
					6					
					5					
					5					
		Hole stopped @ 9.2 ft								
10.0										
		Remarks: Hole collapsed at 2.5 ft.								
12.5										
15.0										
17.5										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										

BORING LOG 2 COLCHESTER HES 028-1(28).GPJ VERMONT AGT.GDT 7/8/13

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028frm.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
BORING LOG SHEET 6	SHEET 23 OF 91

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
							ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							5557			5557		CY	COMMON EXCAVATION	203.15	55	<b>203.15 - COMMON EXCAVATION</b>		
							556			556		CY	SOLID ROCK EXCAVATION	203.16	EST.	5502 CY	US ROUTE 2	
							2897			2897		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	29	55 CY	ROUNDING	
							5568			5568		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	55	5557 CY	TOTAL - COMMON EXCAVATION	
							348			348		CWT	EMULSIFIED ASPHALT	404.65	3	<b>203.16 - SOLID ROCK EXCAVATION</b>		
							1			1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	--	556 CY	US ROUTE 2	
							3820			3820		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	38	EST. CY	ROUNDING	
							1			1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	--	556 CY	TOTAL - SOLID ROCK EXCAVATION	
							1			1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	--	<b>301.35 - SUBBASE OF DENSE GRADED CRUSHED STONE</b>		
							1			1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	--	5513 CY	US ROUTE 2	
							2			2		TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	0.1	55 CY	ROUNDING	
							20			20		EACH	STEEL MARKER POSTS	619.16	4	5568 CY	TOTAL - SUBBASE OF DENSE GRADED CRUSHED STONE	
							1860			1860		LF	TEMPORARY TRAFFIC BARRIER	621.90	36	<b>490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)</b>		
							1860			1860		LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95	36	3473 TON	US ROUTE 2	
							80			80		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	88 TON	EB RAMP	
							480			480		HR	FLAGGERS	630.15	EST.	87 TON	WB RAMP	
									1	1		LS	FIELD OFFICE, ENGINEERS	631.10	--	134 TON	CLAY POINT ROAD	
									1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	--	38 TON	ROUNDING	
									3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	--	3820 TON	TOTAL - SUPERPAVE BIT. CONCRETE PAVEMENT	
							1			1		LS	MOBILIZATION/DEMobilIZATION	635.11	--	<b>900.675 SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)</b>		
							1			1		LS	TRAFFIC CONTROL (COLCHESTER HES 028-1(28))	641.10	--	48 SY	CLAY POINT ROAD DRIVES	
							2			2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	--	2 SY	ROUNDING	
							6811			6811		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	67	50 SY	TOTAL - HAND PLACED BIT. CONC. PAVEMENT, DRIVES	
							6860			6860		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	68			
							164			164		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	2			
							522			522		LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	5			
							80			80		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	1			
							48			48		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	--			
							11350			11350		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	112			
							11390			11390		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	113			
							60			60		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	8			
							8			8		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	--			
								100		100		LB	SEED	651.15	1			
								830		830		LB	FERTILIZER	651.18	8			
								3.3		3.3		TON	AGRICULTURAL LIMESTONE	651.20	0.1			
								3.3		3.3		TON	HAY MULCH	651.25	0.1			
								890		890		CY	TOPSOIL	651.35	9			
								1		1		LS	EPSC PLAN	652.10	--			
								80		80		HR	MONITORING EPSC PLAN	652.20	EST.			
								1		1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	--			

PROJECT NAME: COLCHESTER  
PROJECT NUMBER: HES 028-1(28)  
FILE NAME: t13b028frm.dgn PLOT DATE: 12/15/2015  
PROJECT LEADER: P. COBURN DRAWN BY: M. BOGACZYK  
DESIGNED BY: M. BOGACZYK CHECKED BY: M. LACROIX  
QUANTITY SHEET 1 SHEET 24 OF 91

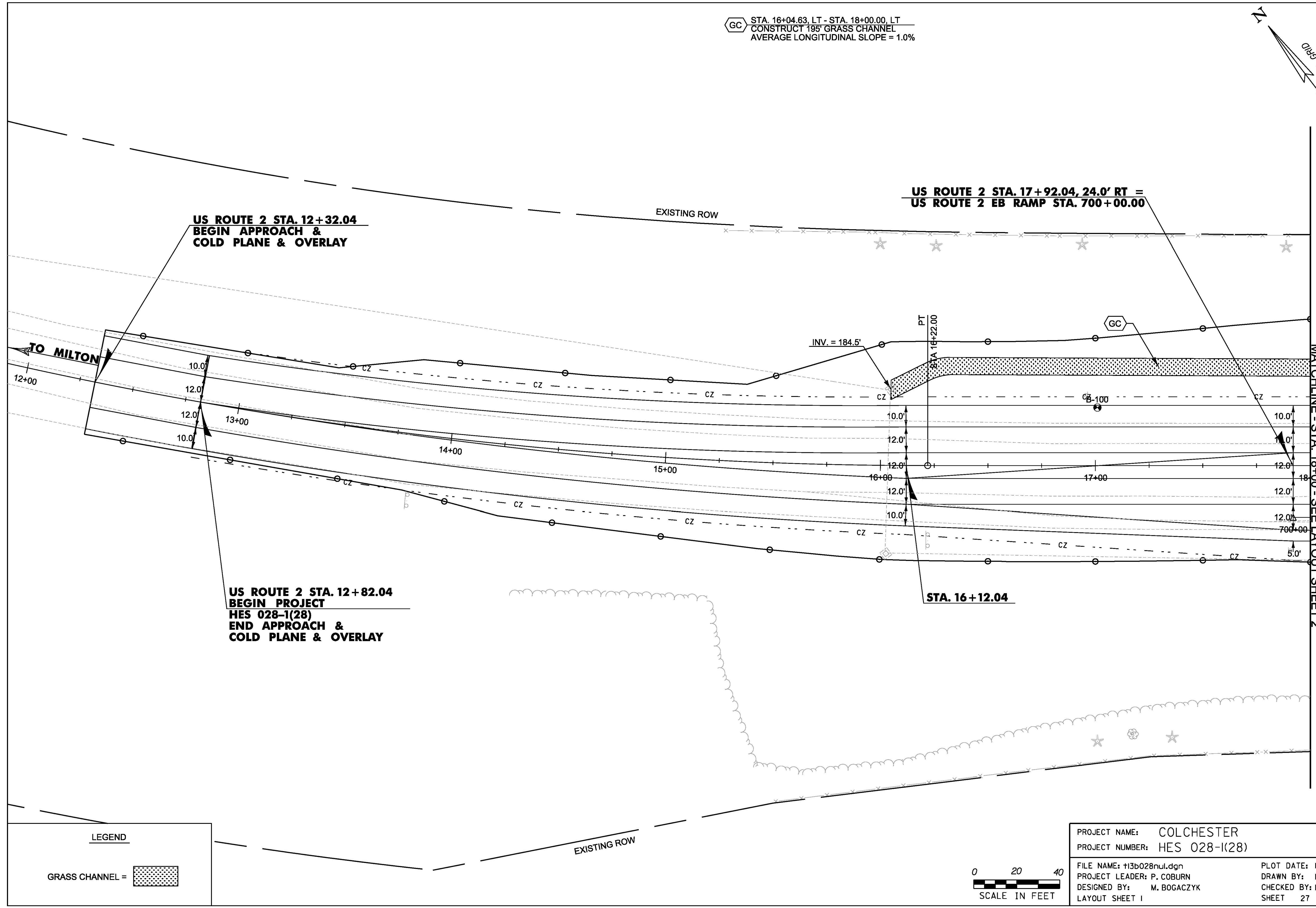
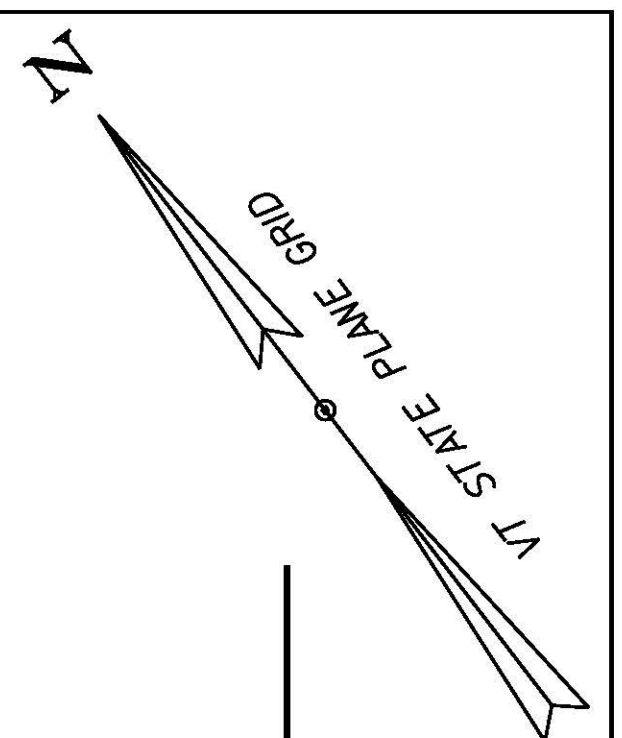
# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
							ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
								2265		2265		SY	TEMPORARY EROSION MATTING	653.20	22			
								33		33		CY	VEHICLE TRACKING PAD	653.35	3			
								10		10		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-			
								2423		2423		LF	PROJECT DEMARCATION FENCE	653.55	24			
							40			40		SF	TRAFFIC SIGNS, TYPE A	675.20	2			
							91			91		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	1			
							10			10		EACH	REMOVING SIGNS	675.50	-			
							1			1		EACH	ERECTING SALVAGED SIGNS	675.60	-			
							1			1		EACH	SETTING SALVAGED POSTS	675.61	-			
							1			1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
							50			50		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	2			

PROJECT NAME: COLCHESTER  
 PROJECT NUMBER: HES 028-1(28)  
 FILE NAME: t13b028frm.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 QUANTITY SHEET 2  
 PLOT DATE: 12/15/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. LACROIX  
 SHEET 25 OF 91



GC STA. 16+04.63, LT - STA. 18+00.00, LT  
 CONSTRUCT 195' GRASS CHANNEL  
 AVERAGE LONGITUDINAL SLOPE = 1.0%



**US ROUTE 2 STA. 12+32.04  
 BEGIN APPROACH &  
 COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
 US ROUTE 2 EB RAMP STA. 700+00.00**

**US ROUTE 2 STA. 12+82.04  
 BEGIN PROJECT  
 HES 028-1(28)  
 END APPROACH &  
 COLD PLANE & OVERLAY**

**STA. 16+12.04**

MATCHLINE - STA. 18+00 - SEE LAYOUT SHEET 2

**LEGEND**

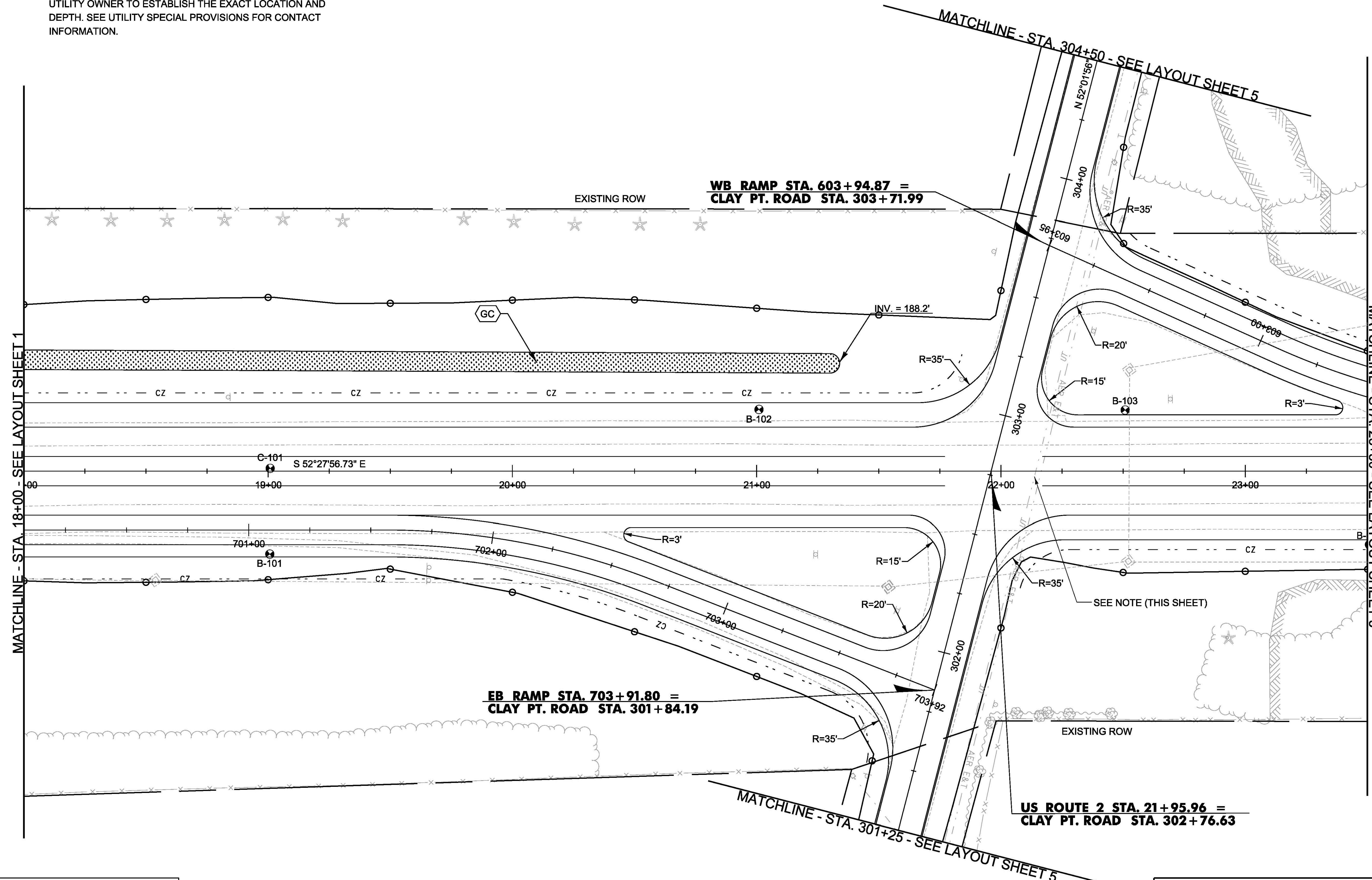
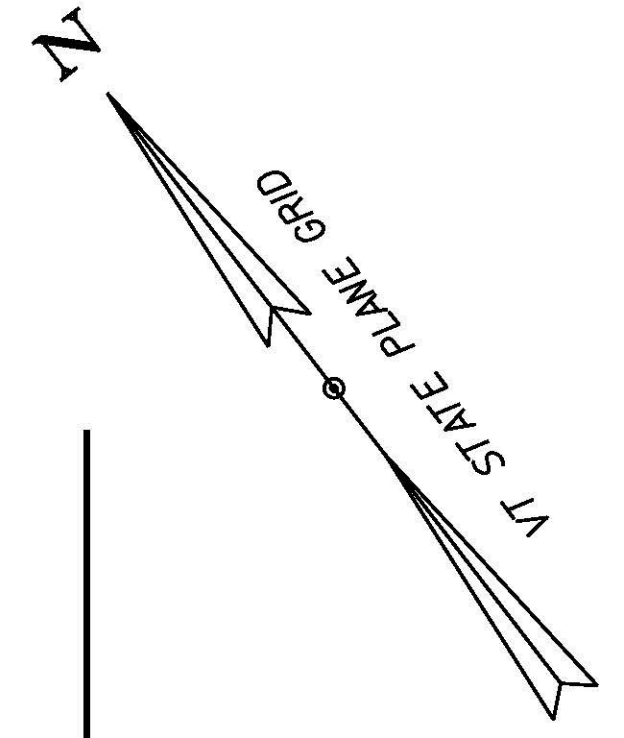
GRASS CHANNEL =



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028nu1.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 27 OF 91
DESIGNED BY: M. BOGACZYK	
LAYOUT SHEET 1	

NOTE: THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID IMPACT TO UNDERGROUND UTILITY LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER TO ESTABLISH THE EXACT LOCATION AND DEPTH. SEE UTILITY SPECIAL PROVISIONS FOR CONTACT INFORMATION.

GC STA. 18+00.00, LT - STA. 21+33.96, LT  
 CONSTRUCT 339' GRASS CHANNEL  
 AVERAGE LONGITUDINAL SLOPE = 1.0%



MATCHLINE - STA. 18+00 - SEE LAYOUT SHEET 1

MATCHLINE - STA. 23+50 - SEE LAYOUT SHEET 3

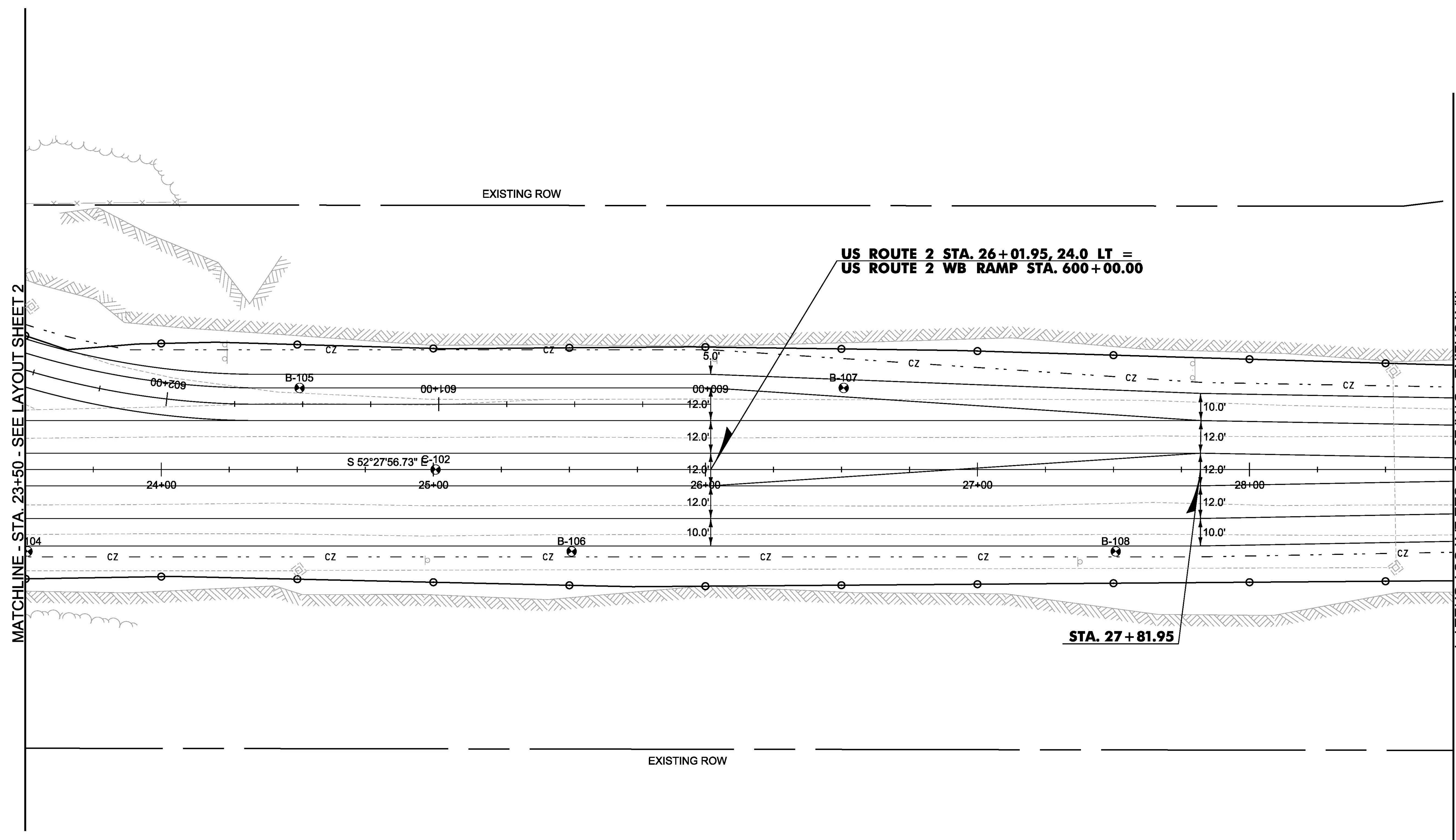
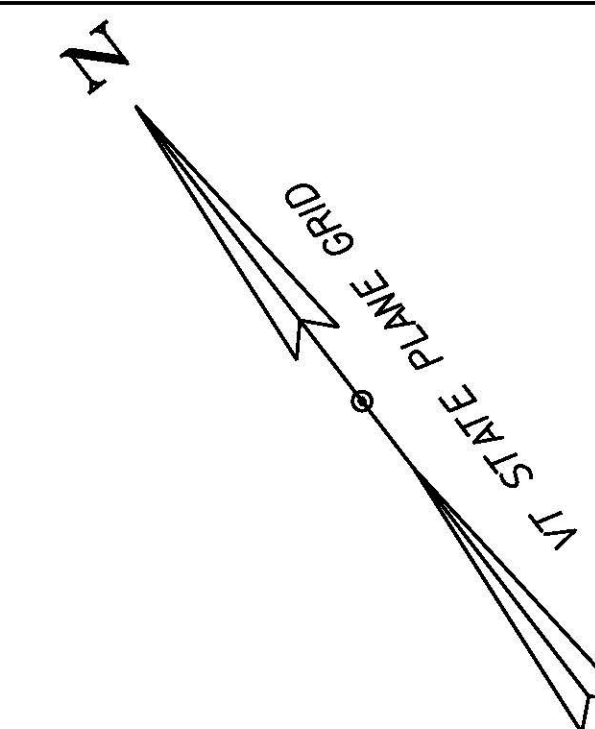
MATCHLINE - STA. 304+50 - SEE LAYOUT SHEET 5

MATCHLINE - STA. 301+25 - SEE LAYOUT SHEET 5

LEGEND  
 GRASS CHANNEL =



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028nu1.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 28 OF 91
DESIGNED BY: M. BOGACZYK	
LAYOUT SHEET 2	

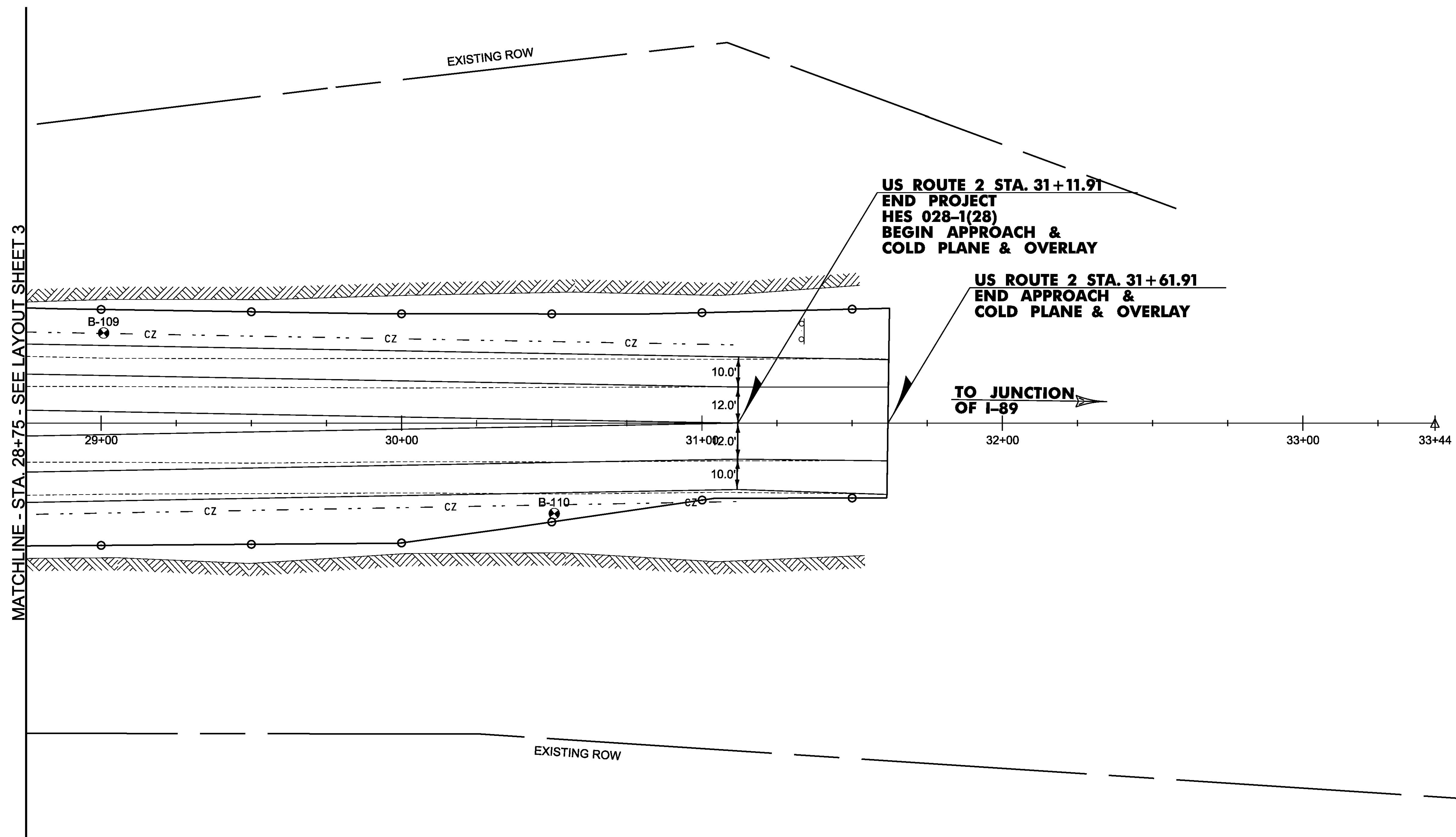
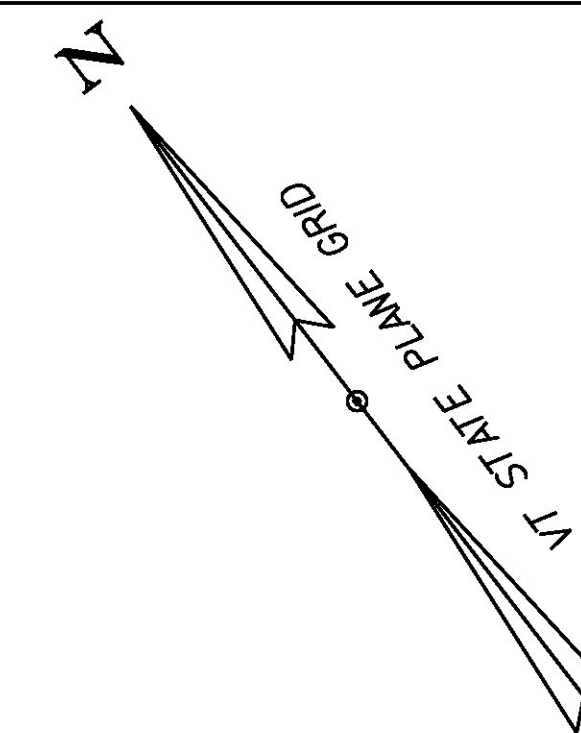


**LEGEND**

GRASS CHANNEL = 



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028nvl.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	LAYOUT SHEET 3
DESIGNED BY: M. BOGACZYK	SHEET 29 OF 91



MATCHLINE - STA. 28+75 - SEE LAYOUT SHEET 3

**US ROUTE 2 STA. 31+11.91  
END PROJECT  
HES 028-1(28)  
BEGIN APPROACH &  
COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 31+61.91  
END APPROACH &  
COLD PLANE & OVERLAY**

**TO JUNCTION  
OF I-89** →

**LEGEND**

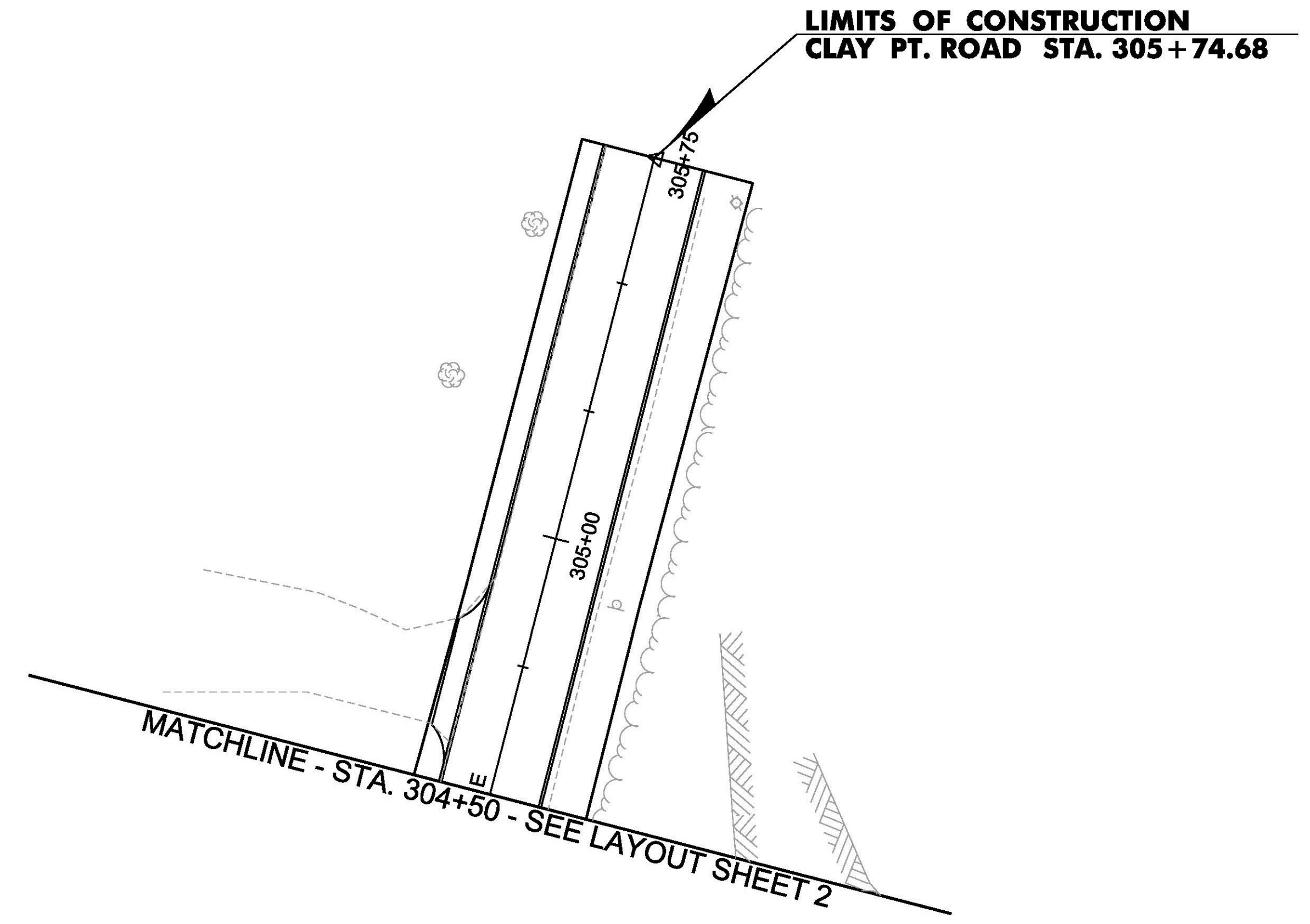
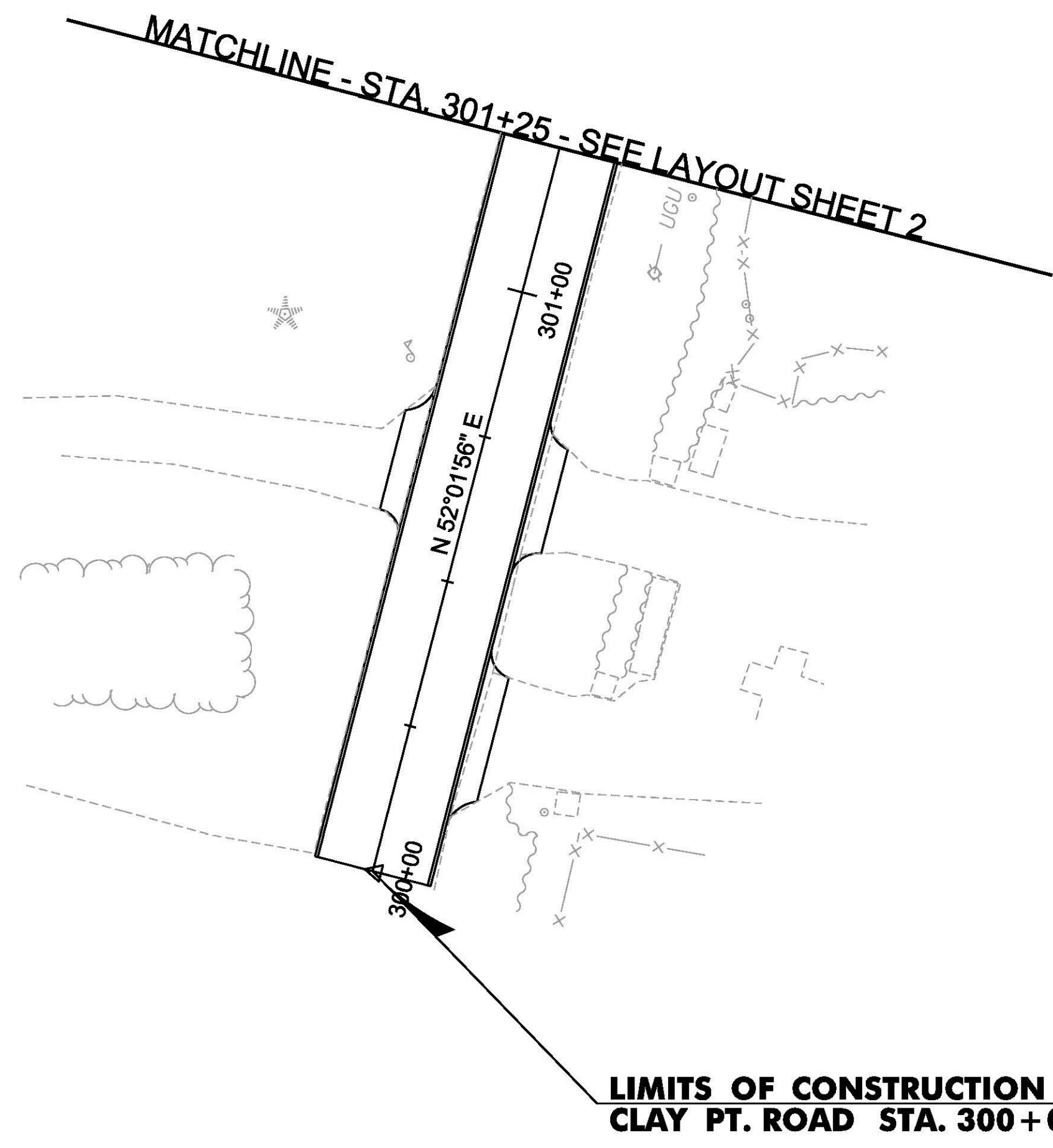
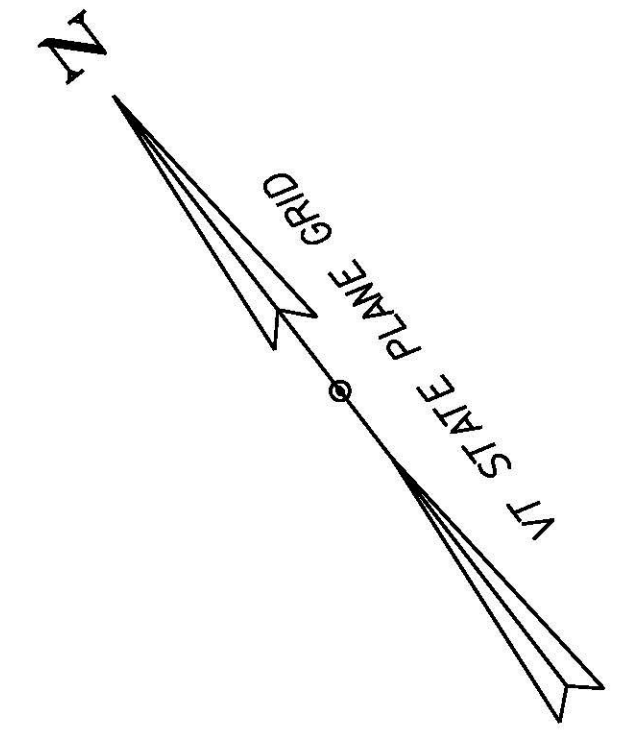
GRASS CHANNEL =



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028nui.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	LAYOUT SHEET 4
DESIGNED BY: M. BOGACZYK	SHEET 30 OF 91

SPECIAL PROVISION  
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

STA. 300+25.00, RT    STA. 300+65.00, RT  
STA. 300+70.00, LT    STA. 304+75.00, LT



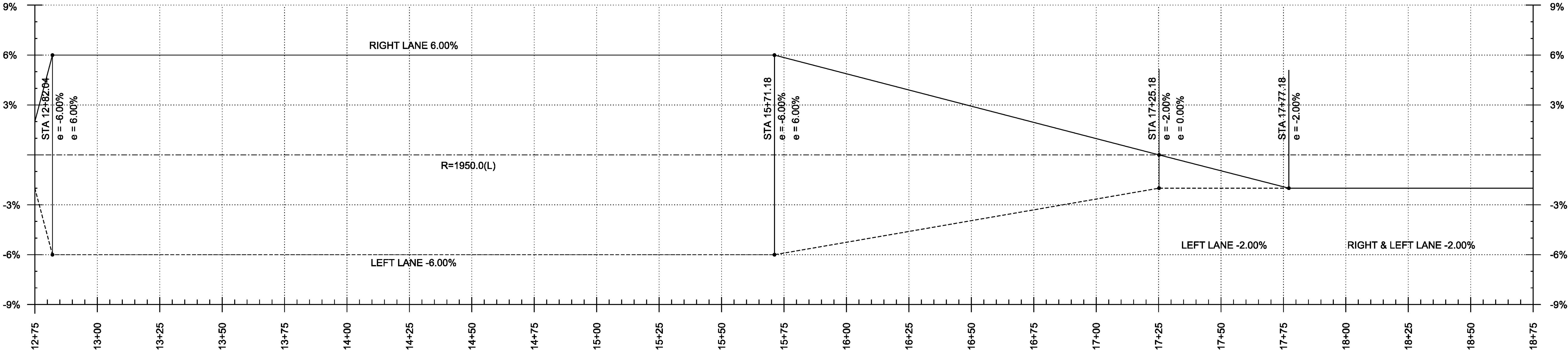
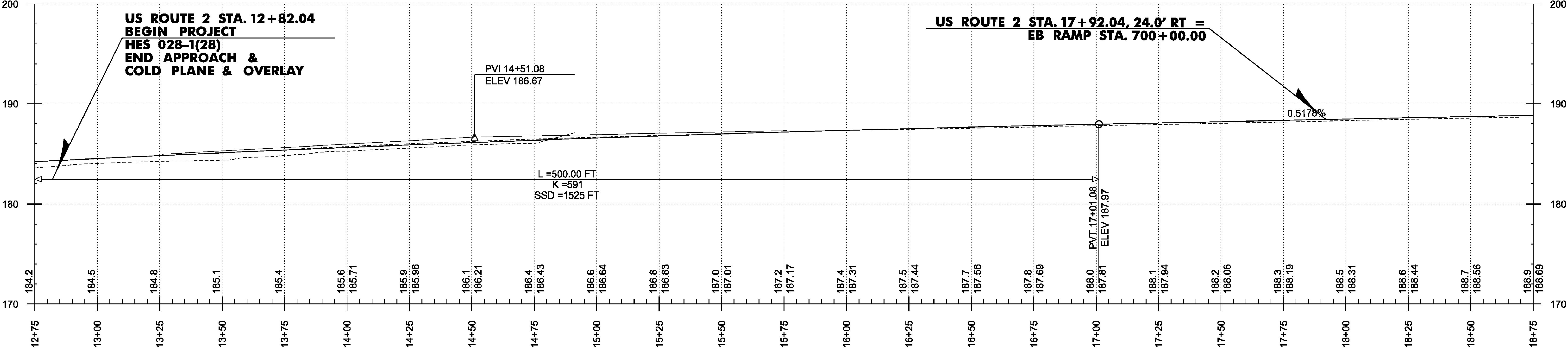
LEGEND

GRASS CHANNEL =



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028nvl.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 31 OF 91
DESIGNED BY: M. BOGACZYK	
LAYOUT SHEET 5	

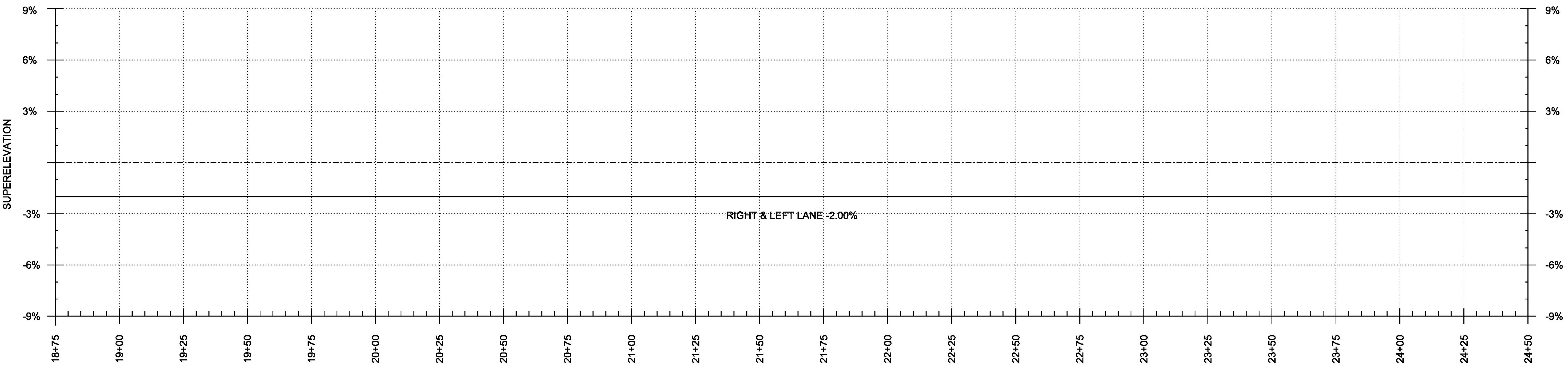
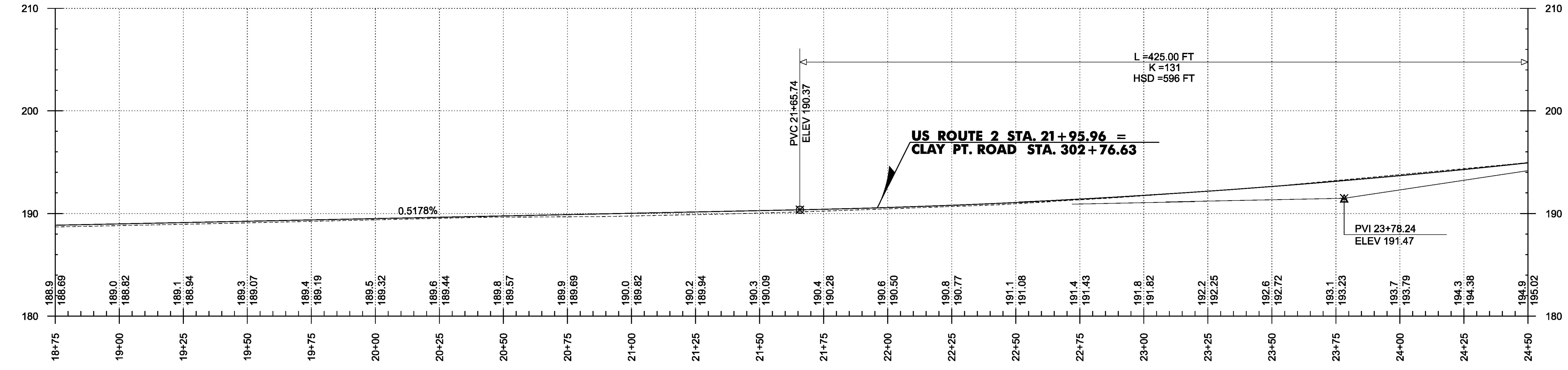
# US ROUTE 2



NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING, GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028pro.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 1	SHEET 32 OF 91

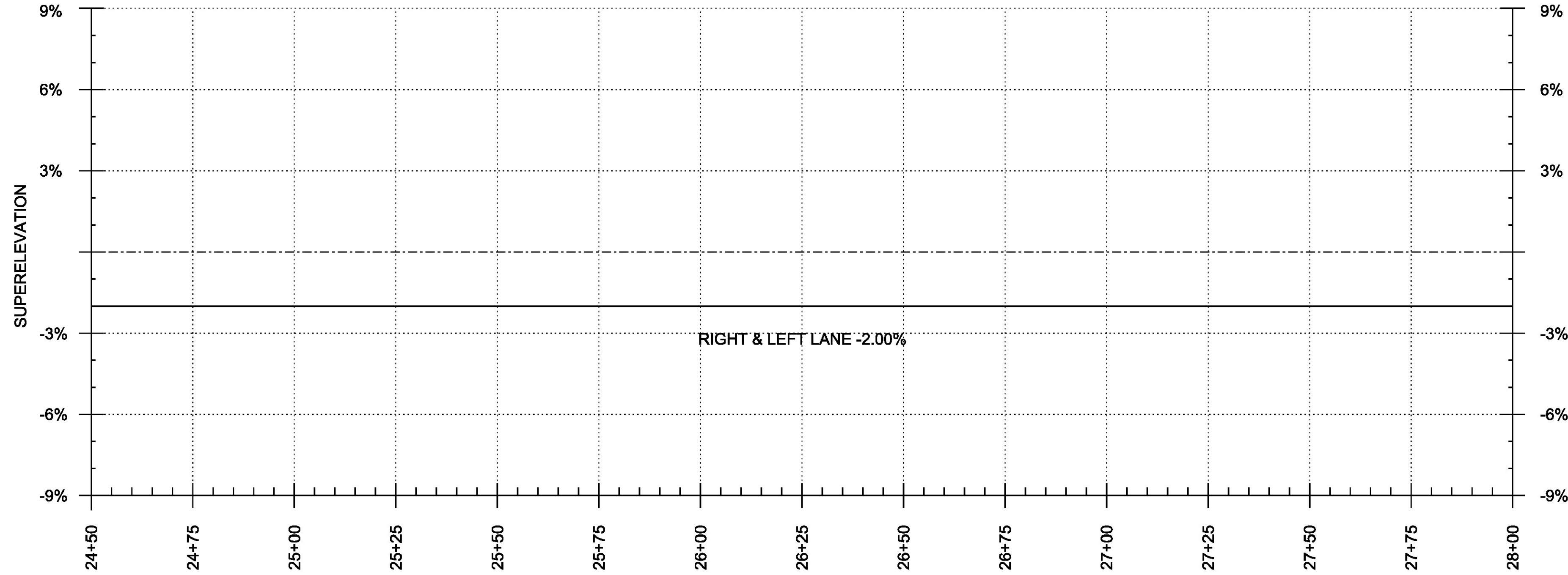
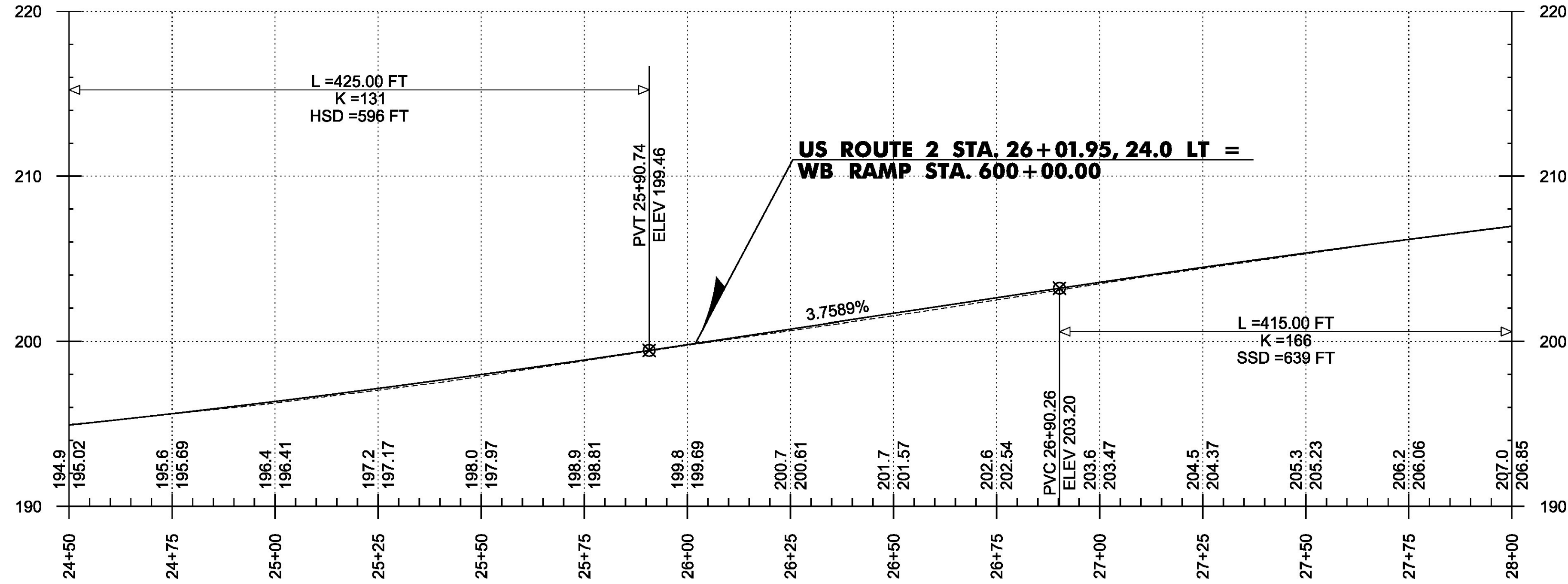
# US ROUTE 2



NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING, GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028pro.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 2	SHEET 33 OF 91

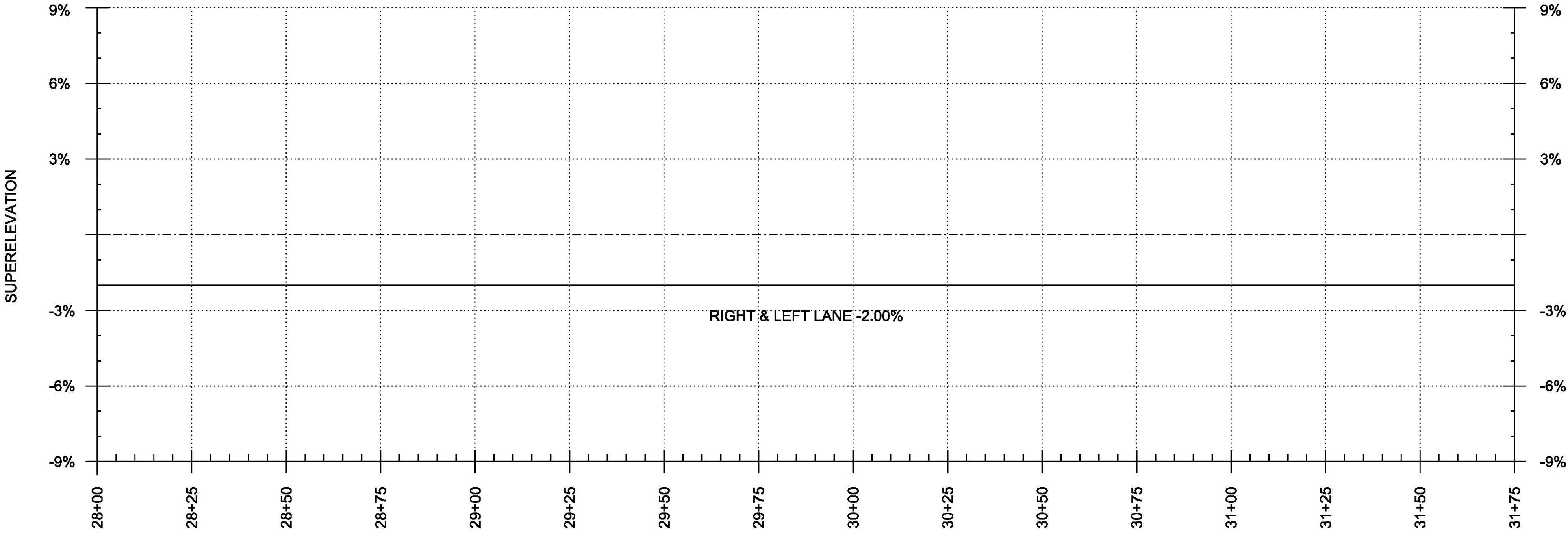
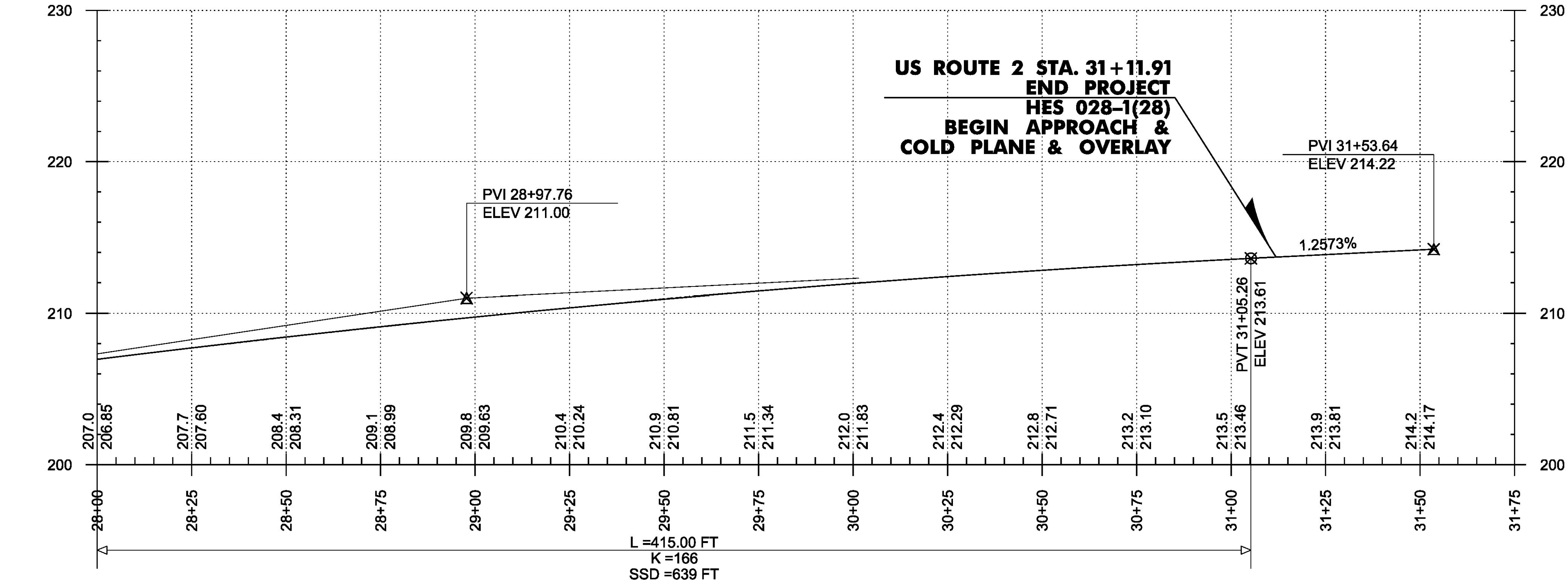
# US ROUTE 2



NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING. GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028pro.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 3	SHEET 34 OF 91

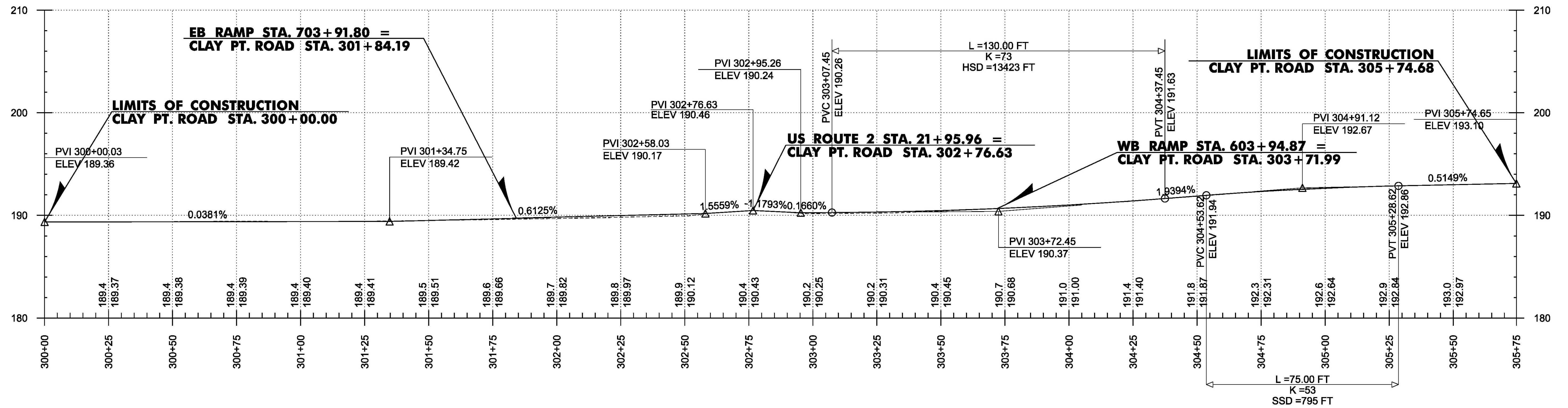
# US ROUTE 2



NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING. GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028pro.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 4	SHEET 35 OF 91

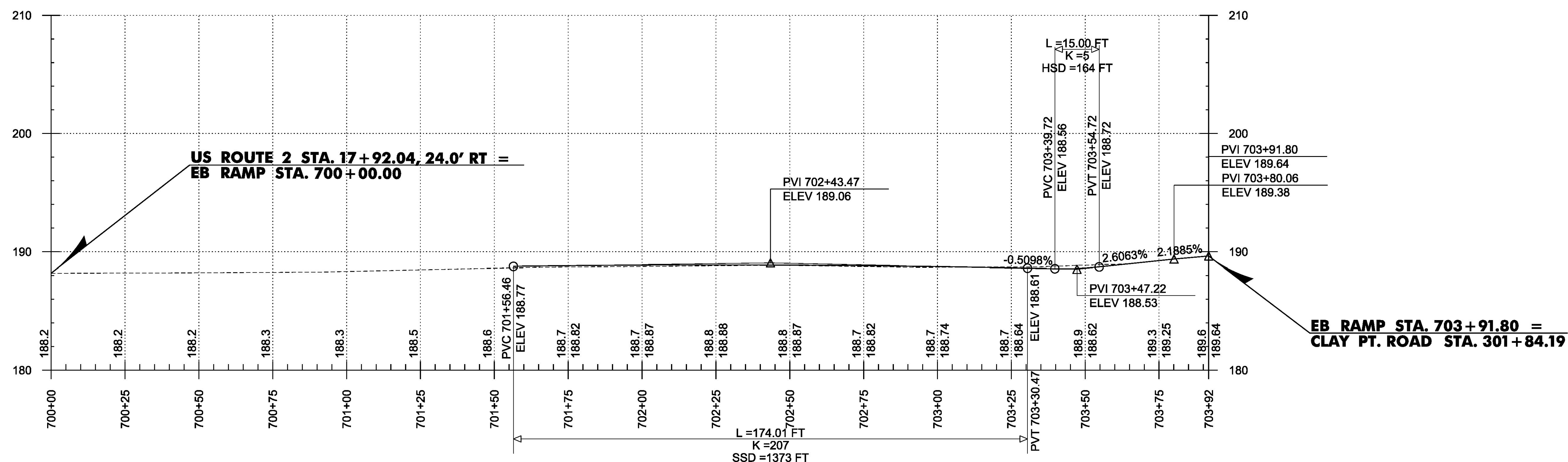
# CLAY POINT ROAD



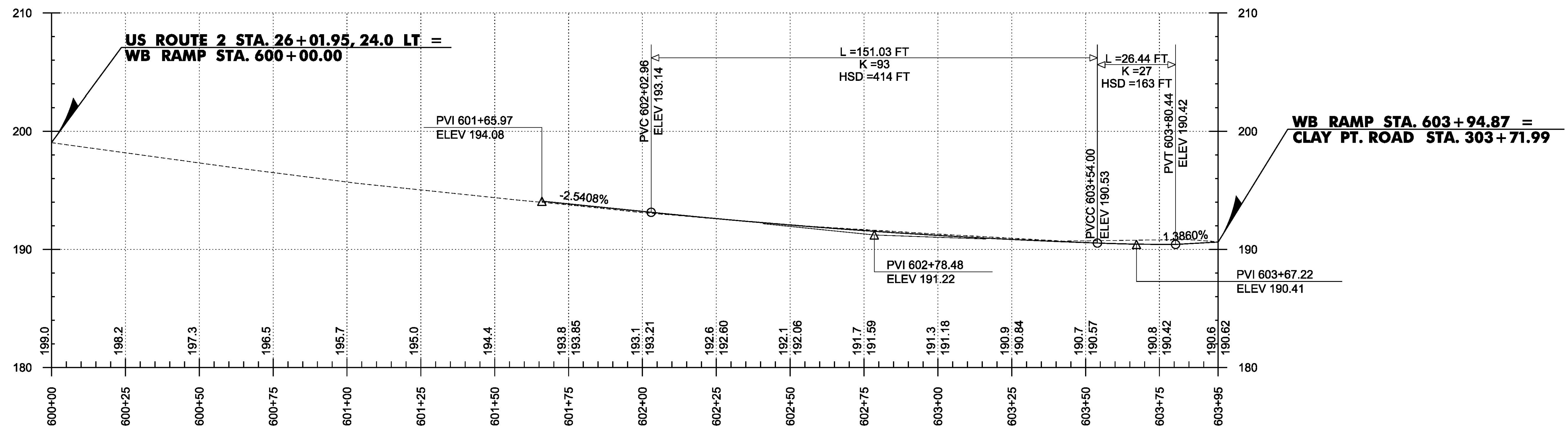
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME: t13b028pro.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 5	SHEET 36 OF 91

NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING, GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

# EAST BOUND RAMP

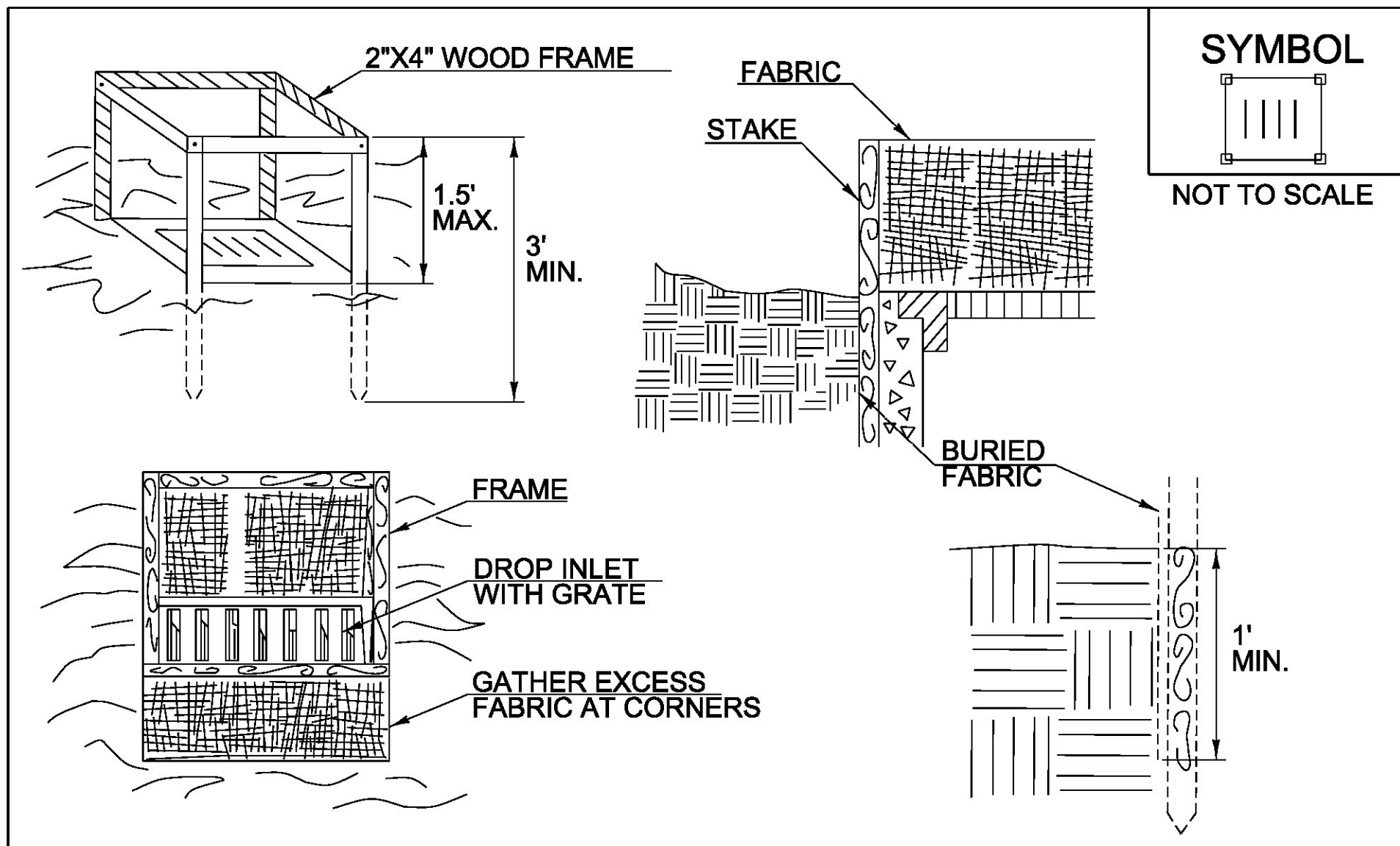


# WEST BOUND RAMP



NOTE: ALL STATIONING AND ELEVATIONS IN FEET. GRADES TO ONE TENTH OF A FOOT ARE EXISTING, GRADES TO ONE HUNDRETH OF A FOOT ARE PROPOSED.

PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028pro.dgn	DESIGNED BY: M. BOGACZYK
PROJECT LEADER: P. COBURN	CHECKED BY: M. LACROIX
ROADWAY PROFILE & BANKING SHEET 6	SHEET 37 OF 91



**SYMBOL**

NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1" MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

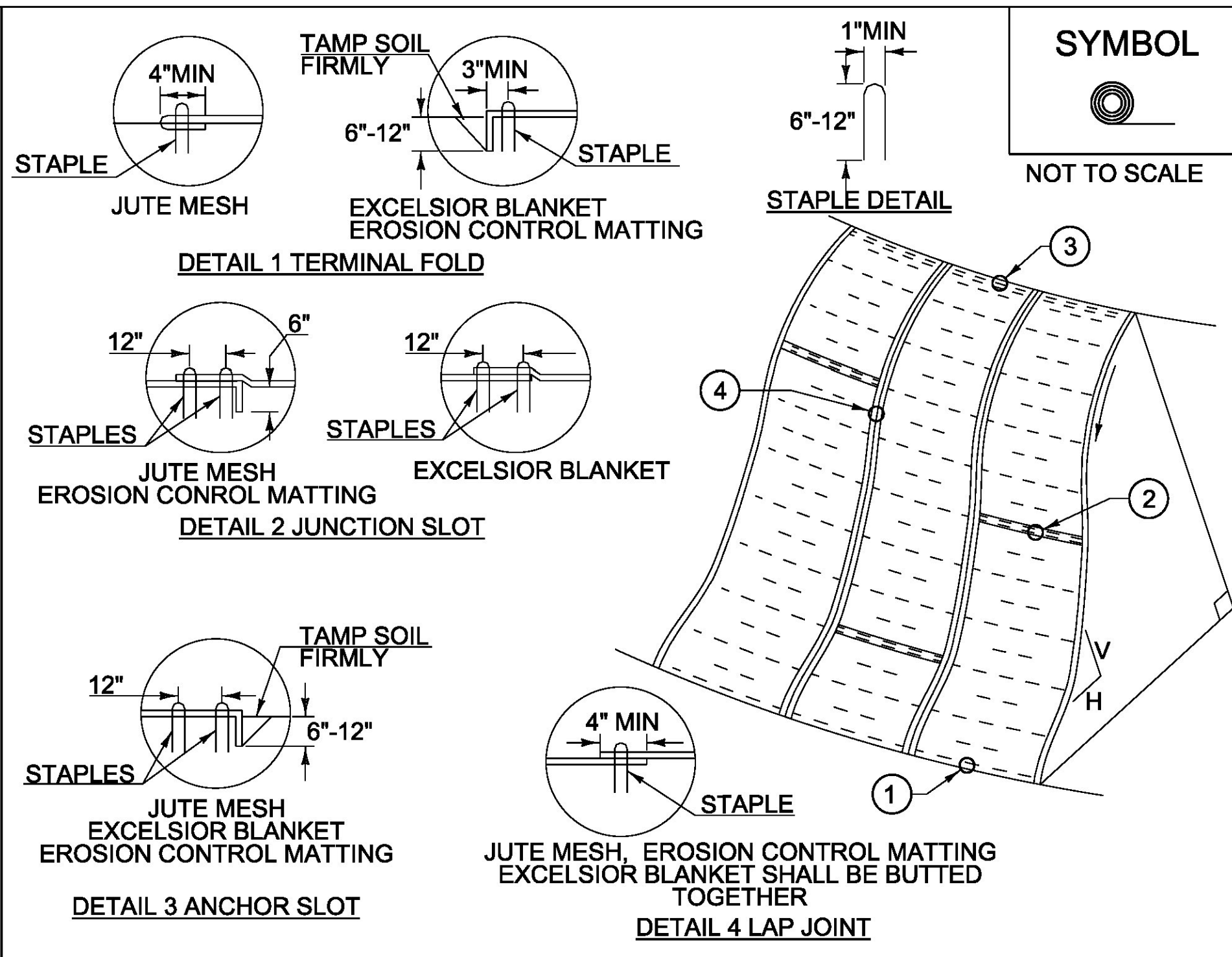
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FILTER FABRIC  
DROP INLET  
PROTECTION

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).



**SYMBOL**

NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

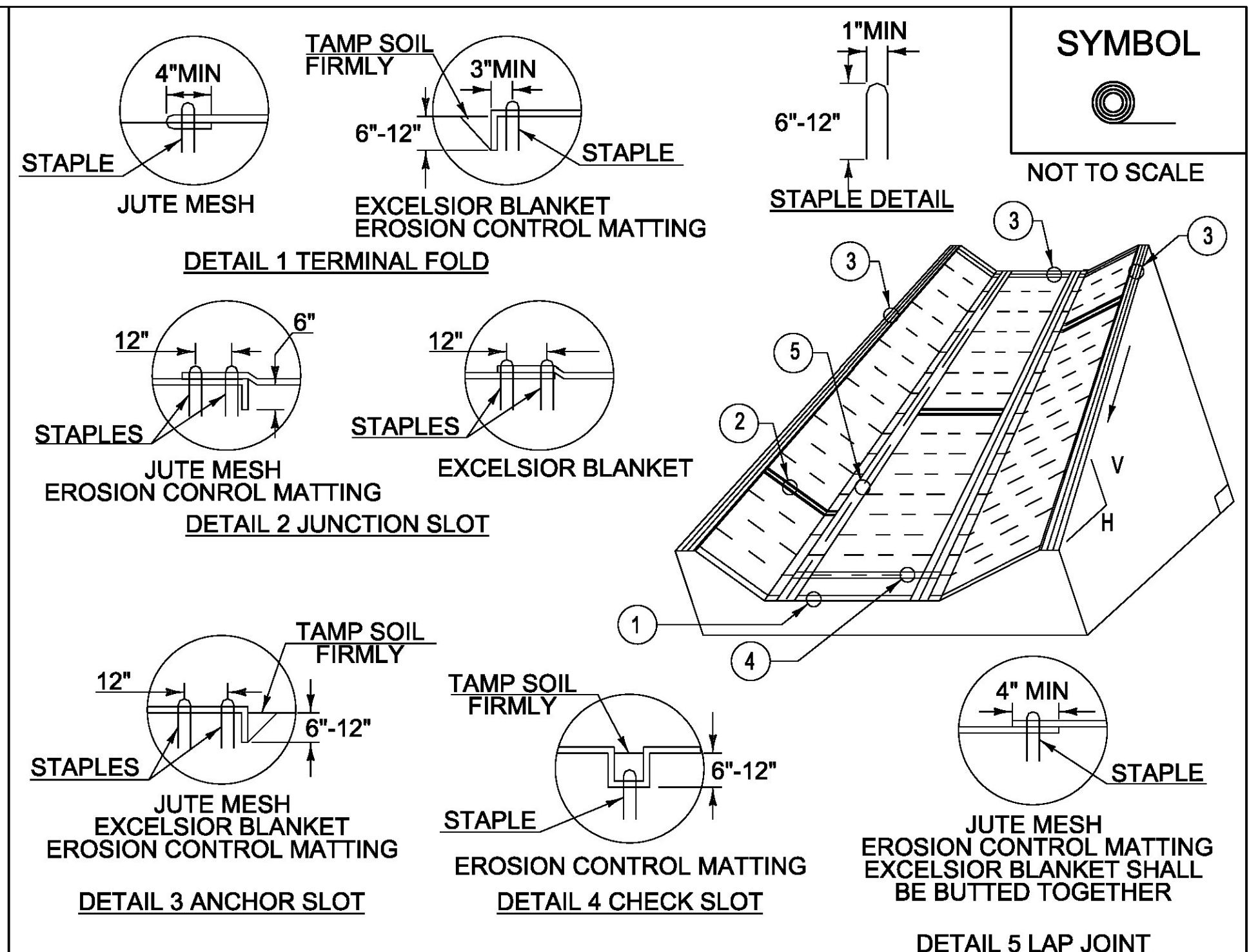
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION  
CONTROL PRODUCT  
(RECP) SIDE SLOPE

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).



**SYMBOL**

NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**

1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION  
CONTROL PRODUCT  
(RECP) DITCH

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028frm.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
EPSC DETAIL SHEET I	
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET	38 OF 91

VAOT RURAL AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
37.5%	22.5	45	CREeping RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
42.5%	34	68	CREeping RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

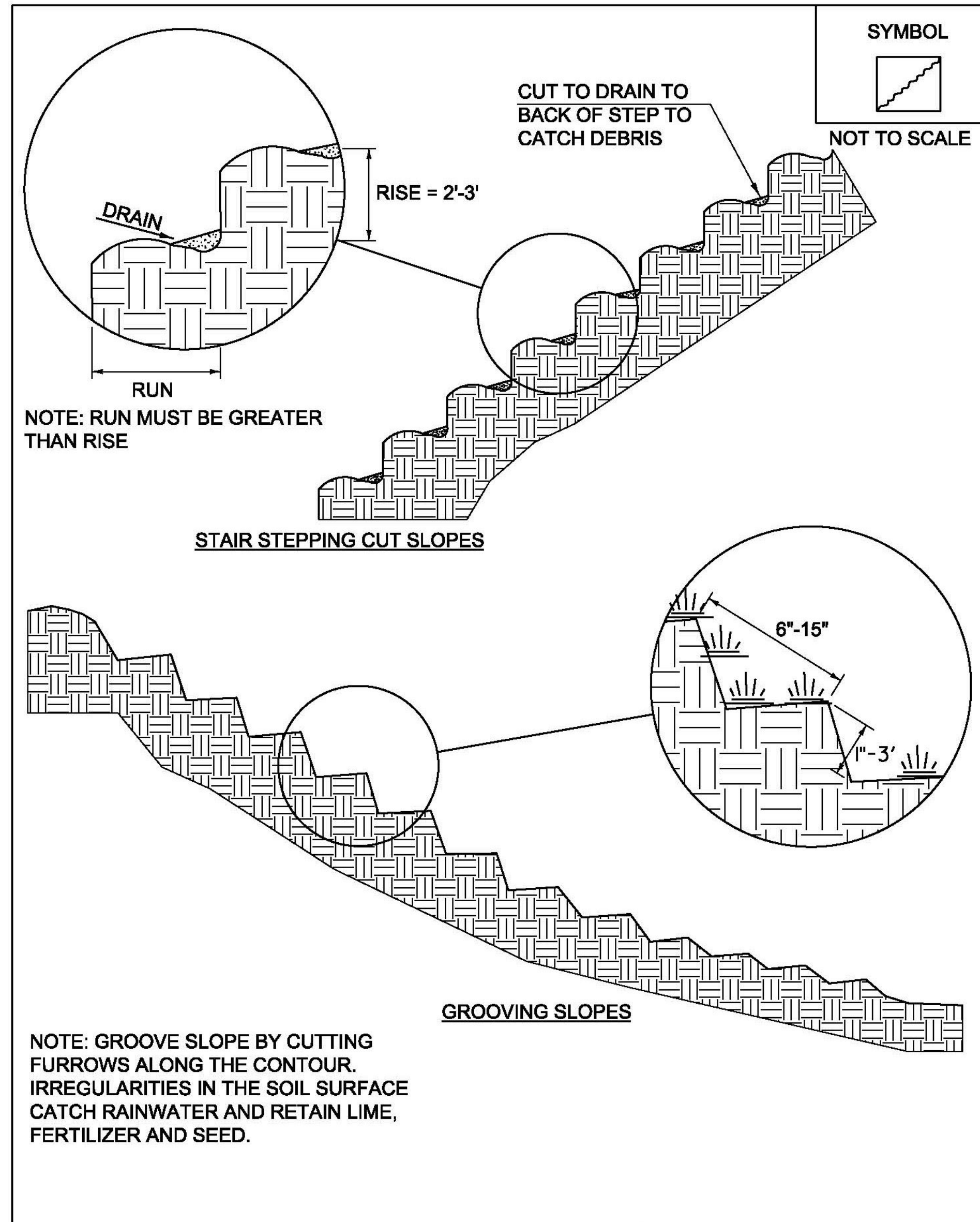
GENERAL GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10/20/20/10	19-19-19	PELLETIZED	LIQUID
500 LBS/AC		2 TONS/AC	4.4 GAL/AC

**CONSTRUCTION GUIDANCE**

- RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
- URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
- ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
- TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

**SEED**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)



ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SURFACE ROUGHENING**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

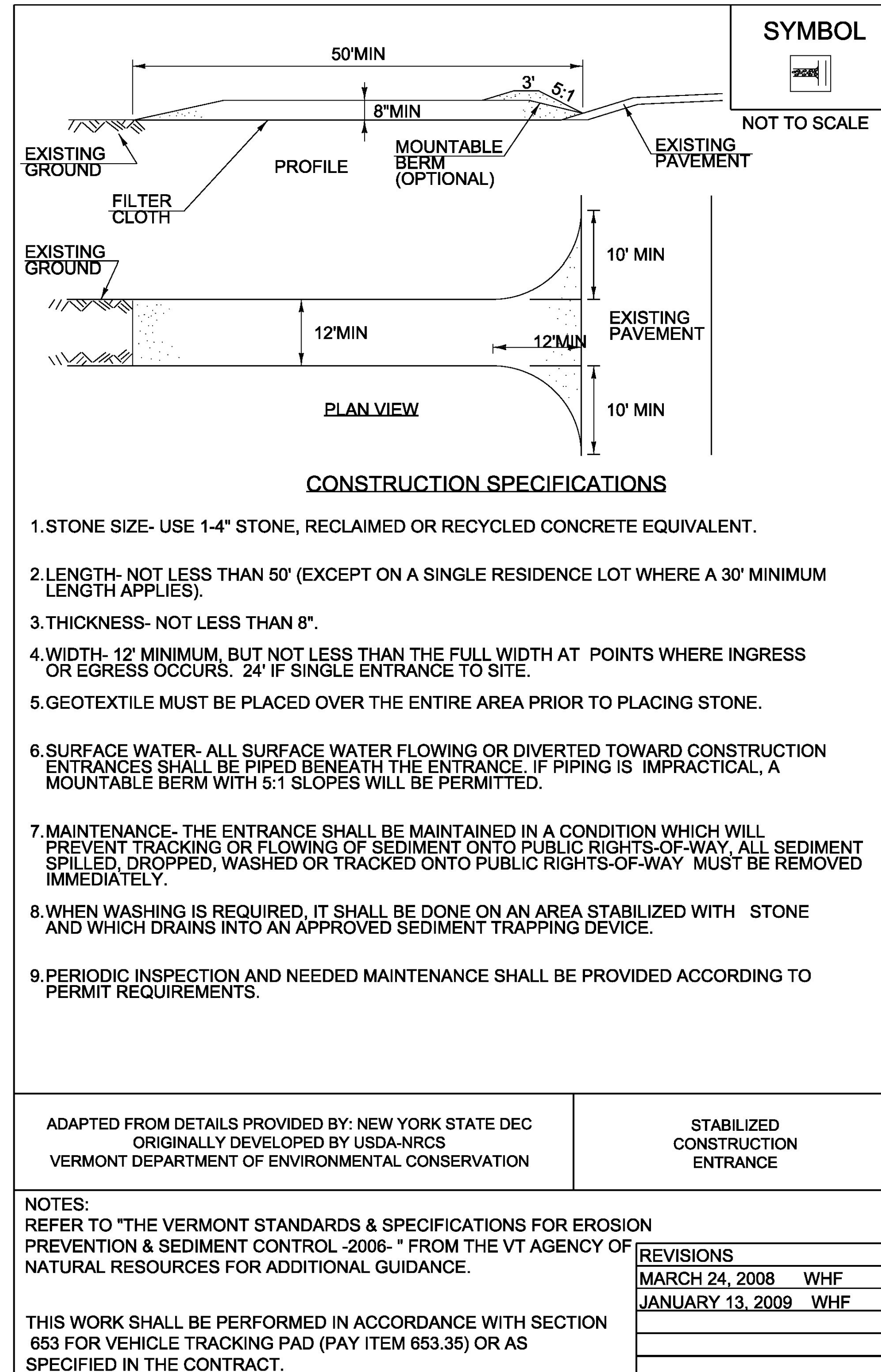
VAOT SAND & GRAVEL SITE CONSERVATION SEED MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
32.00%	--	4	SWITCH GRASS	VARIES	VARIES
32.00%	--	4	BIG BLUESTEM	VARIES	VARIES
16.00%	--	2	LITTLE BLUESTEM	VARIES	VARIES
12.00%	--	2	SAND LOVEGRASS	VARIES	VARIES
8.00%	--	1	BLACKEYED SUSAN	VARIES	VARIES
100.00%	0	13			

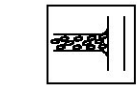
**CONSTRUCTION GUIDANCE**

- SEEDING SHALL BE COMPLETED BY THE USE OF A HYDROSEEDER AND DOZER COMBINATION.
- USE DOZER TO TRACK THE SITE. SLOPES SHALL BE TRACKED UP AND DOWN, NOT SIDE TO SIDE.
- ONLY CLEAN, WEED-FREE STRAW MULCH SHALL BE USED.
- SEE TURF ESTABLISHMENT NOTES FOR MULCH, FERTILIZER AND LIMESTONE APPLICATION RATES.

GRASS CHANNEL SEEDING

PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028frm.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 39 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC DETAIL SHEET 2	



**SYMBOL**  
  
 NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS**

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
 ORIGINALLY DEVELOPED BY USDA-NRCS  
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED  
 CONSTRUCTION  
 ENTRANCE

NOTES:  
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028frm.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 40 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC DETAIL SHEET 3	

# EPSC PLAN NARRATIVE

## 1.1 PROJECT DESCRIPTION

THE PROJECT SHALL CONSIST OF THE CONSTRUCTION OF TWO LEFT HAND TURN LANES, PAVEMENT MARKINGS, TRAFFIC SIGNS, AND OTHER ROADWAY RELATED ITEMS.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 5.02 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

## 1.2 SITE INVENTORY

### 1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS FLAT WITH LARGE ROCK OUTCROPS THAT IS MOSTLY FOREST WITH OCCASIONAL OPEN AREAS FOR RESIDENTIAL HOMES. US ROUTE 2, CLAY POINT ROAD, AND FOUR PAVED/GRAVEL DRIVEWAYS ARE WITHIN THE PROJECT SITE. THERE ARE THREE RESIDENCES ON THE EAST AND WEST SIDE OF THE PROJECT. THE NORTH AND SOUTH SIDE OF THE PROJECT CONSIST OF LEDGE, WOODED AREAS, AND GRASS BUFFERS.

### 1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THERE ARE NO WATERWAYS OR WATER COURSES WITHIN THE PROJECT LIMITS. THE LAMOILLE RIVER IS APPROXIMATELY 2050 FEET NORTH OF THE PROJECT. THERE ARE SEVERAL DROP INLETS ON SITE DRAINING FROM THE ROADWAY DOWN SLOPE OFFSITE.

### 1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF HARDWOOD TREES, SOFTWOOD TREES AND UNDERGROWTH. THE IMPACT TO VEGETATION WILL BE LIMITED MAINLY TO THE UNDERGROWTH. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

### 1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF CHITTENDEN, VERMONT. SOILS ON THE PROJECT SITE ARE FARMINGTON EXTREMELY ROCKY, 20% TO 60% SLOPES, "K FACTOR" = 0.32; ADAMS AND WINDSOR LOAMY SANDS, 5% TO 12% SLOPES, "K FACTOR" = 0.17; ADAMS AND WINDSOR LOAMY SANDS, 0% TO 5% SLOPES, "K FACTOR" = 0.17; FARMINGTON EXTREMELY ROCKY, 5% TO 20% SLOPES, "K FACTOR" = 0.32; SCANTIC SILT LOAM, 2% TO 6% SLOPES, "K FACTOR" = 0.32. THE SOIL IS CONSIDERED MOTERATELY ERODIBLE DUE TO SIGNIFICANT SLOPES.

**NOTE:** K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.0-0.23 = LOW EROSION POTENTIAL  
0.24-0.36 = MODERATE EROSION POTENTIAL  
0.37 AND HIGHER = HIGH EROSION POTENTIAL

### 1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO  
HISTORICAL OR ARCHEOLOGICAL AREAS: NO  
PRIME AGRICULTURAL LAND: NO  
THREATENED AND ENDANGERED SPECIES: NO  
WATER RESOURCE: NO  
WETLANDS: NO

## 1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

## 1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THESE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM

WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

### 1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

### 1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

### 1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MNIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

NO SPECIFIC LOCATION WAS DETERMINED FOR INSTALLATION OF THE CONSTRUCTION ENTRANCE(S). THE RESIDENT ENGINEER WILL DETERMINE THE LOCATION(S) AND QUANTITIES OF CONSTRUCTION ENTRANCE(S) IF DEEMED NECESSARY.

### 1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

DROP INLET PROTECTION WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

SILT FENCE IS NOT ANTICIPATED FOR THIS PROJECT DUE TO THE RELATIVELY FLAT GRADES WITHIN THE PROJECT LIMITS.

### 1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AREA AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCITON SITE.

THE PROJECT AREA IS RELATIVELY FLAT, THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

### 1.4.6 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

### 1.4.7 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN.

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

### 1.4.8 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

### 1.4.9 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

### 1.4.10 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

NO DE-WATERING ACTIVITIES ARE ANTICIPATED ON THIS PROJECT.

### 1.4.11 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

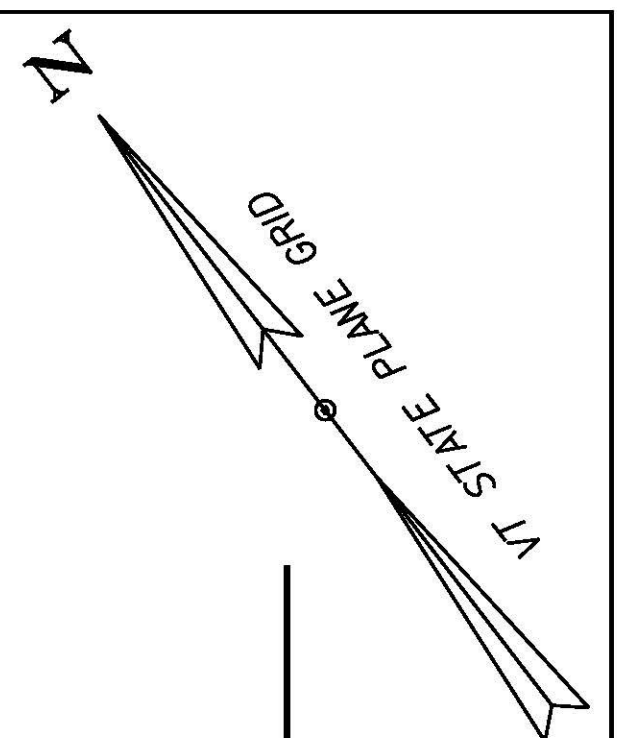
## 1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

### 1.5.1 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028frm.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC NARRATIVE SHEET	SHEET 41 OF 91



ADAMS AND WINDSOR LOAMY SANDS,  
5 TO 12 PERCENT SLOPES  
HYDRD. SOIL GROUP A  
K = 0.17

ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17

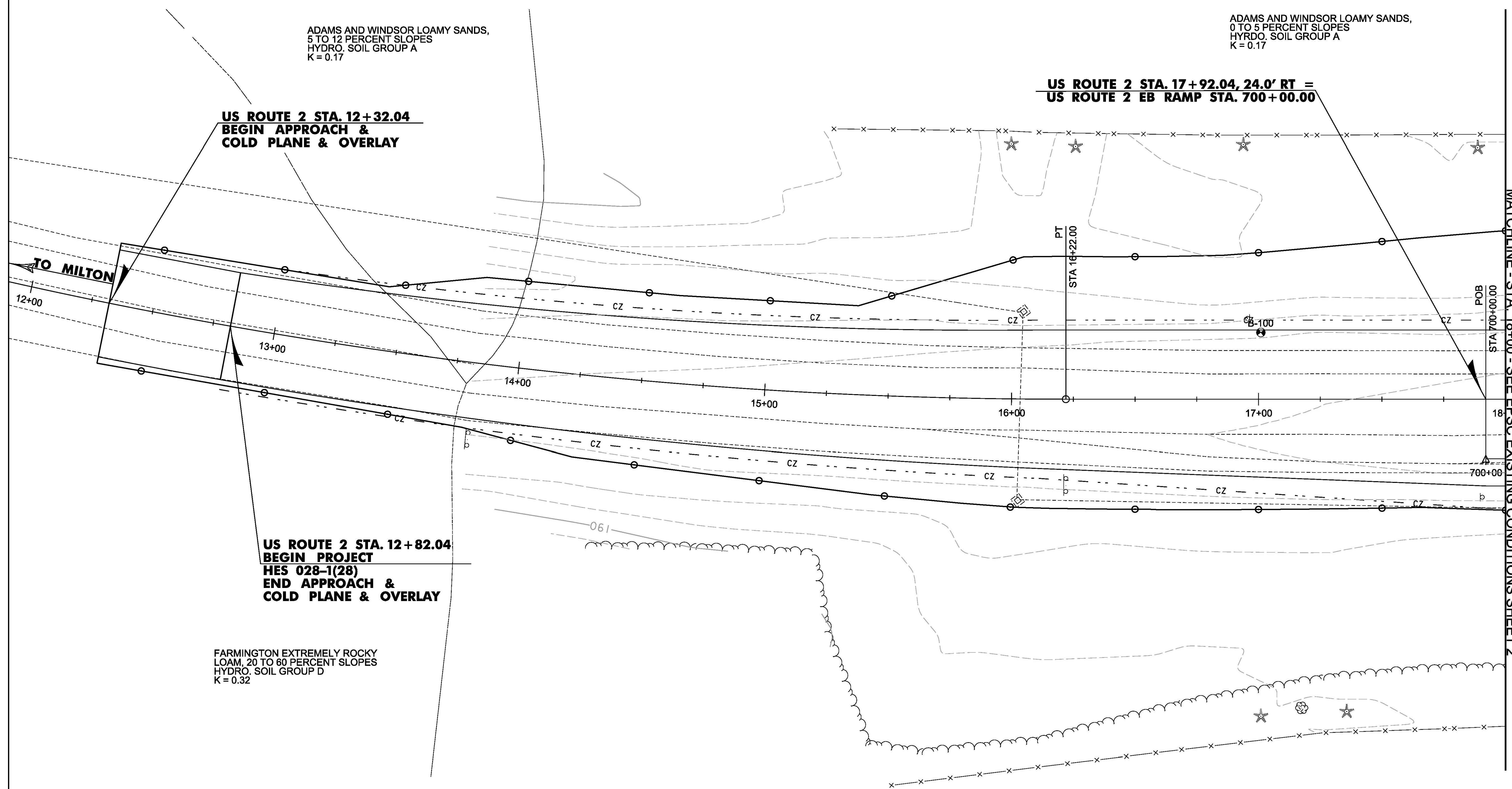
**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
US ROUTE 2 EB RAMP STA. 700+00.00**

**US ROUTE 2 STA. 12+32.04  
BEGIN APPROACH &  
COLD PLANE & OVERLAY**

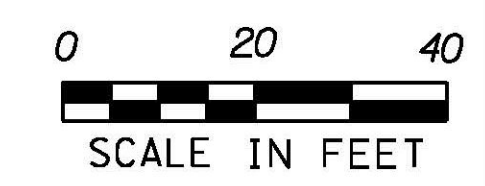
**US ROUTE 2 STA. 12+82.04  
BEGIN PROJECT  
HES 028-1(28)  
END APPROACH &  
COLD PLANE & OVERLAY**

FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRD. SOIL GROUP D  
K = 0.32

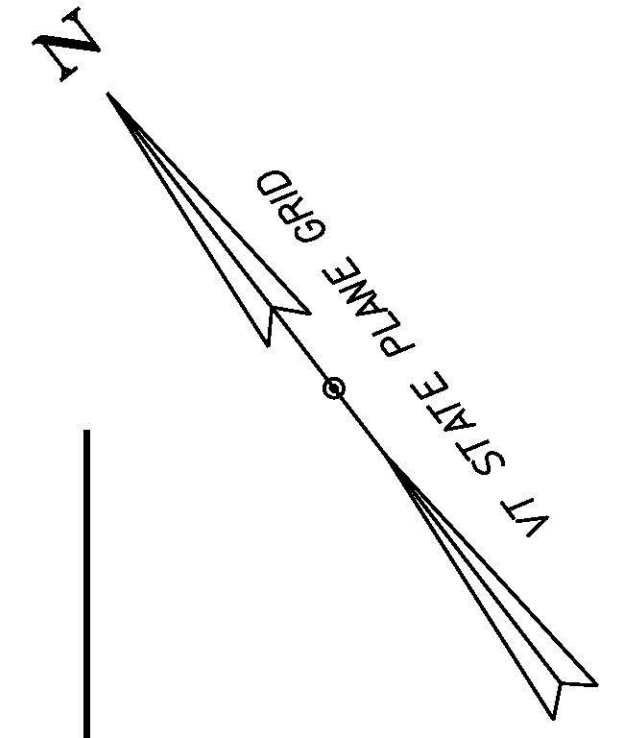
ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17



MATCHLINE - STA. 18+00 - SEE EPSC EXISTING CONDITIONS SHEET 2



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	SHEET 42 OF 91
EPSC EXISTING CONDITIONS SHEET 1	



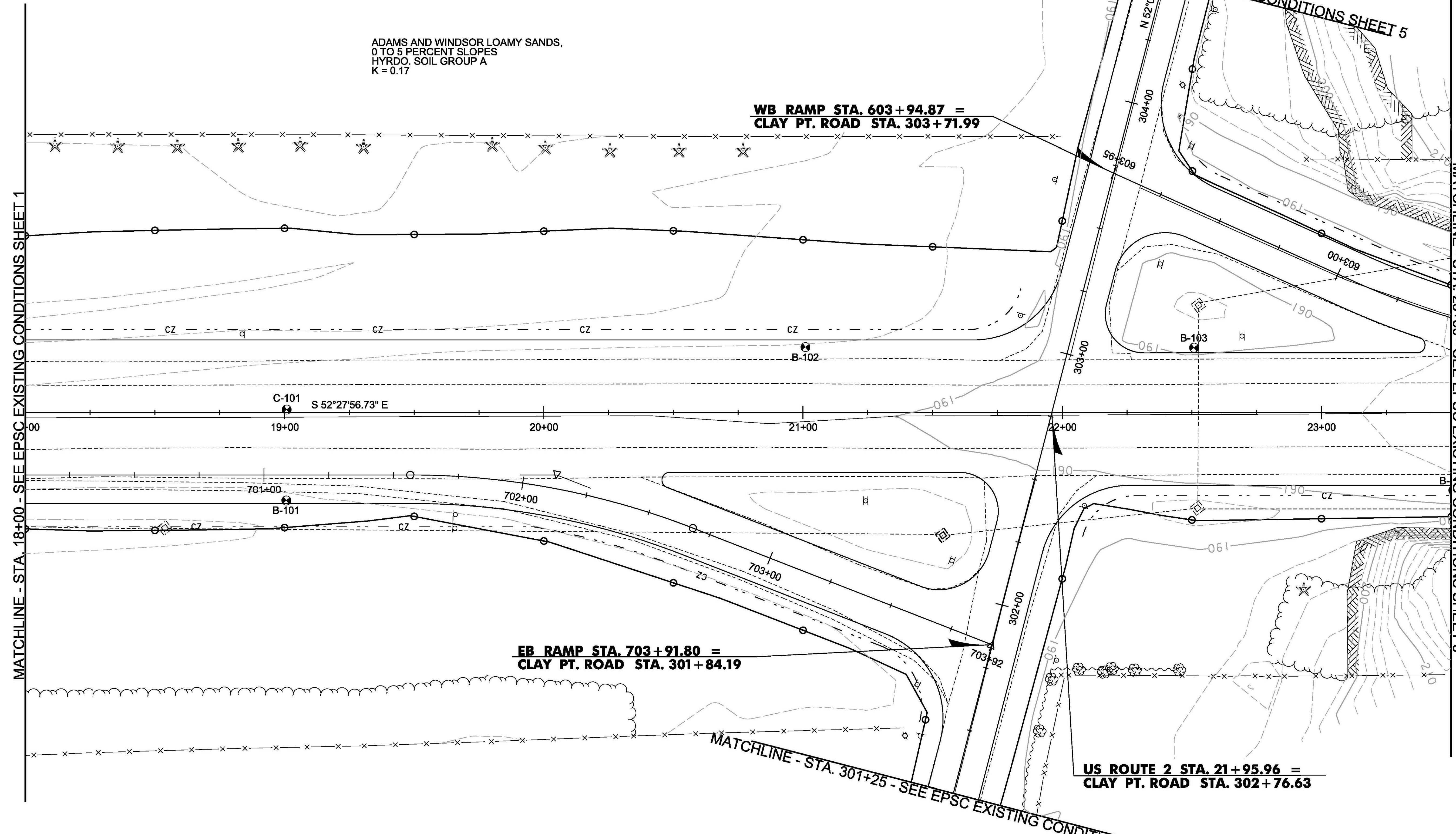
MATCHLINE - STA. 304+50 - SEE EPSC EXISTING CONDITIONS SHEET 5

ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17

**WB RAMP STA. 603+94.87 =  
CLAY PT. ROAD STA. 303+71.99**

MATCHLINE - STA. 23+50 - SEE EPSC EXISTING CONDITIONS SHEET 3

MATCHLINE - STA. 18+00 - SEE EPSC EXISTING CONDITIONS SHEET 1



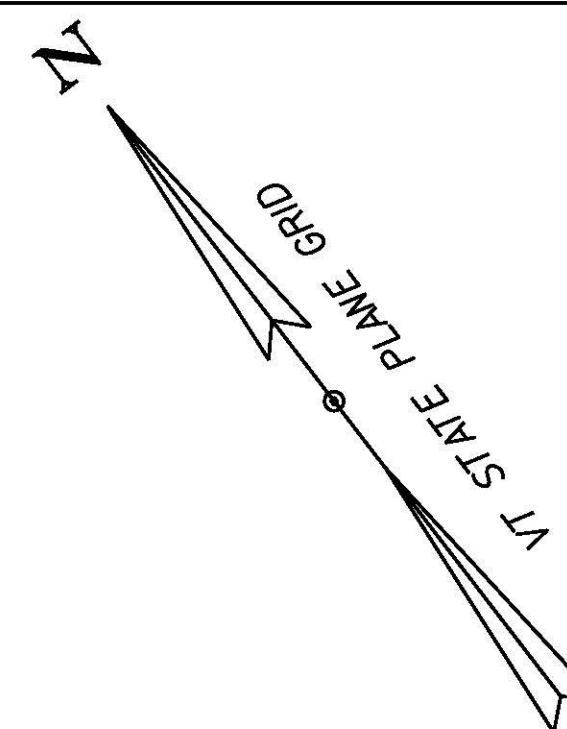
**EB RAMP STA. 703+91.80 =  
CLAY PT. ROAD STA. 301+84.19**

**US ROUTE 2 STA. 21+95.96 =  
CLAY PT. ROAD STA. 302+76.63**

MATCHLINE - STA. 301+25 - SEE EPSC EXISTING CONDITIONS SHEET 5



PROJECT NAME:	COLCHESTER	PLOT DATE:	11/23/2015	
PROJECT NUMBER:	HES 028-1(28)	DRAWN BY:	M. BOGACZYK	
FILE NAME:	t13b028ero.dgn	DESIGNED BY:	M. BOGACZYK	
PROJECT LEADER:	P. COBURN	EPSC EXISTING CONDITIONS SHEET 2	CHECKED BY:	M. LACROIX
			SHEET 43 OF 91	



MATCHLINE - STA. 23+50 - SEE EPSC EXISTING CONDITIONS SHEET 2

MATCHLINE - STA. 28+75 - SEE EPSC EXISTING CONDITIONS SHEET 4

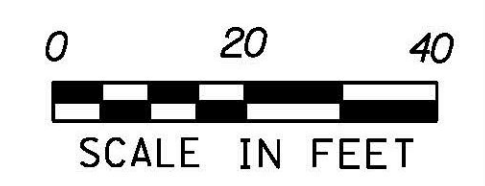
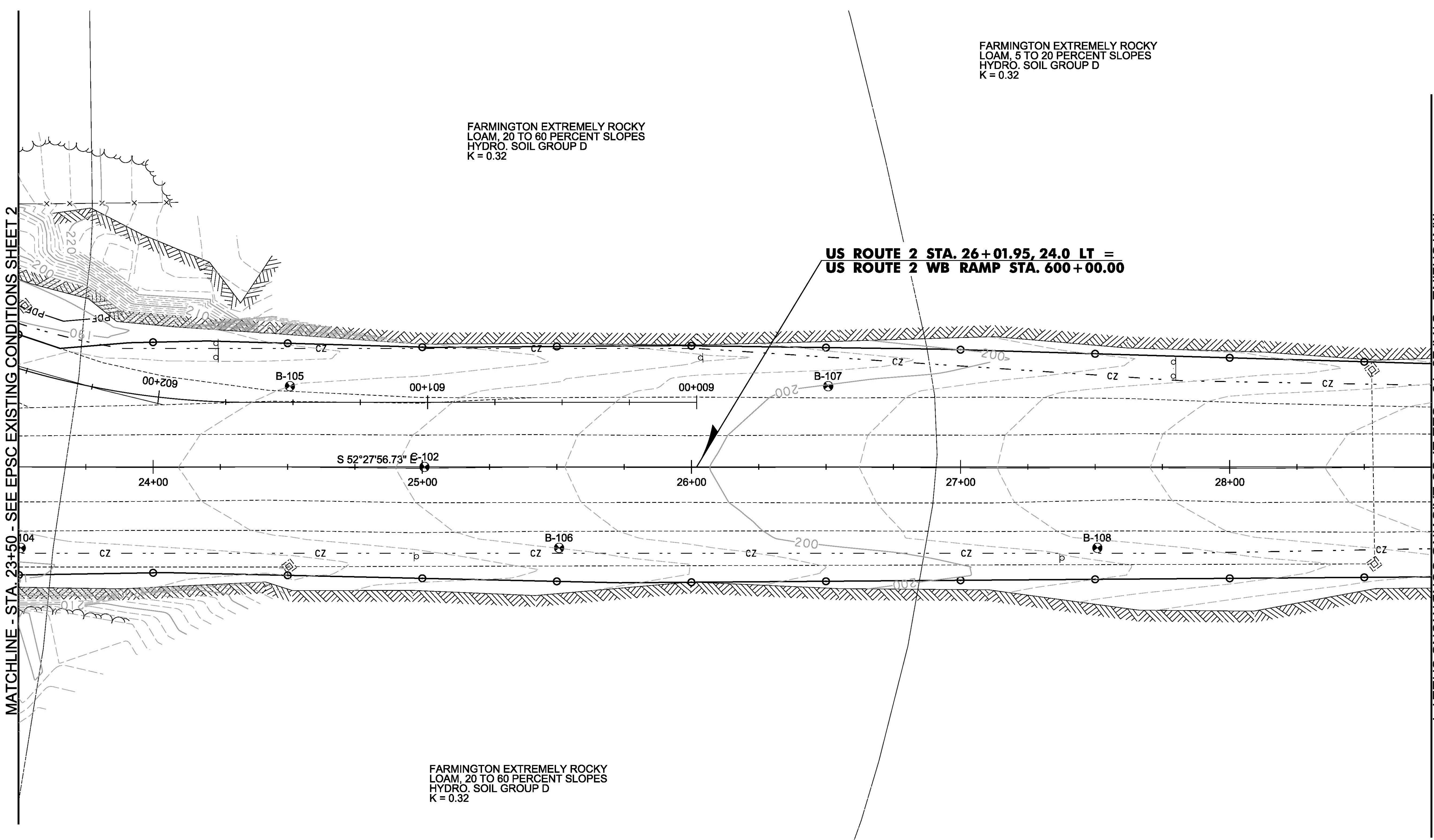
FARMINGTON EXTREMELY ROCKY  
LOAM, 5 TO 20 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

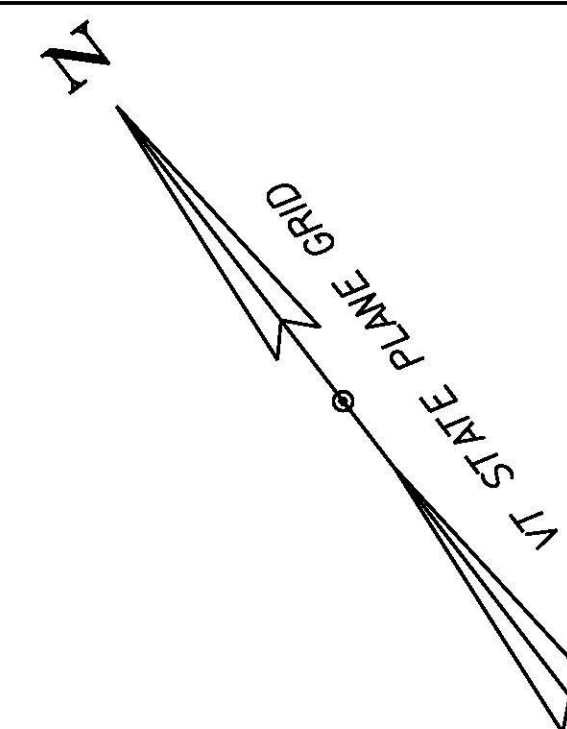
**US ROUTE 2 STA. 26+01.95, 24.0 LT =  
US ROUTE 2 WB RAMP STA. 600+00.00**

FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

SCANTIC SILT LOAM,  
2 TO 6 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

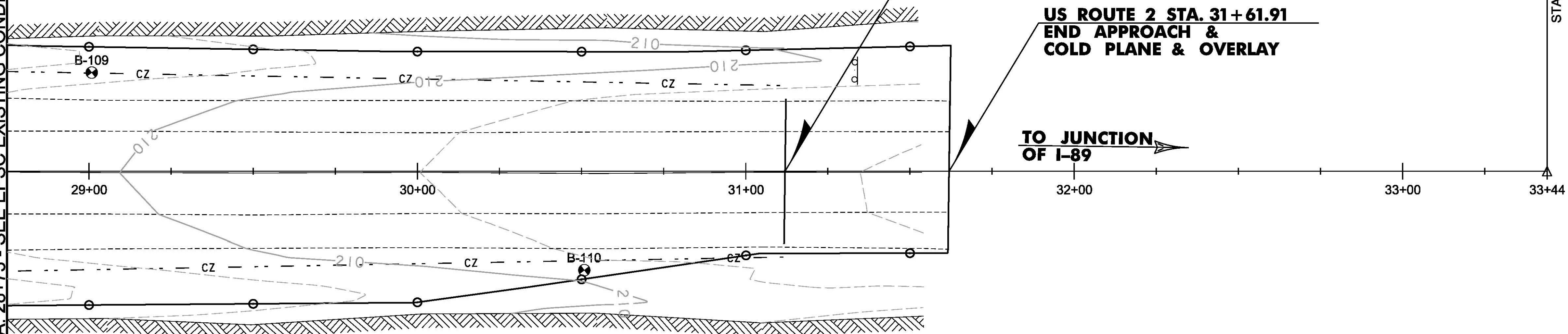


PROJECT NAME:	COLCHESTER	PLOT DATE:	11/23/2015
PROJECT NUMBER:	HES 028-1(28)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t13b028ero.dgn	CHECKED BY:	M. LACROIX
DESIGNED BY:	M. BOGACZYK	EPSC EXISTING CONDITIONS SHEET 3	SHEET 44 OF 91



FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

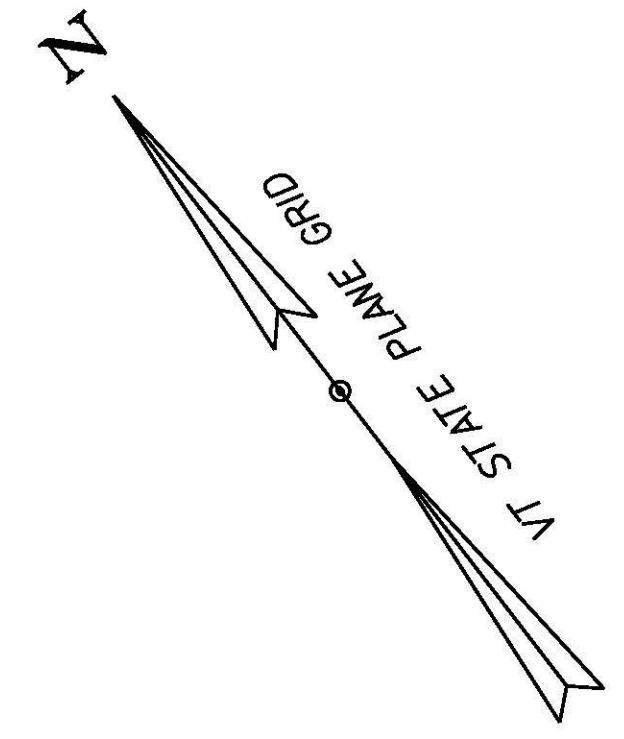
MATCHLINE - STA. 28+75 - SEE EPSC EXISTING CONDITIONS SHEET 3



SCANTIC SILT LOAM,  
2 TO 6 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

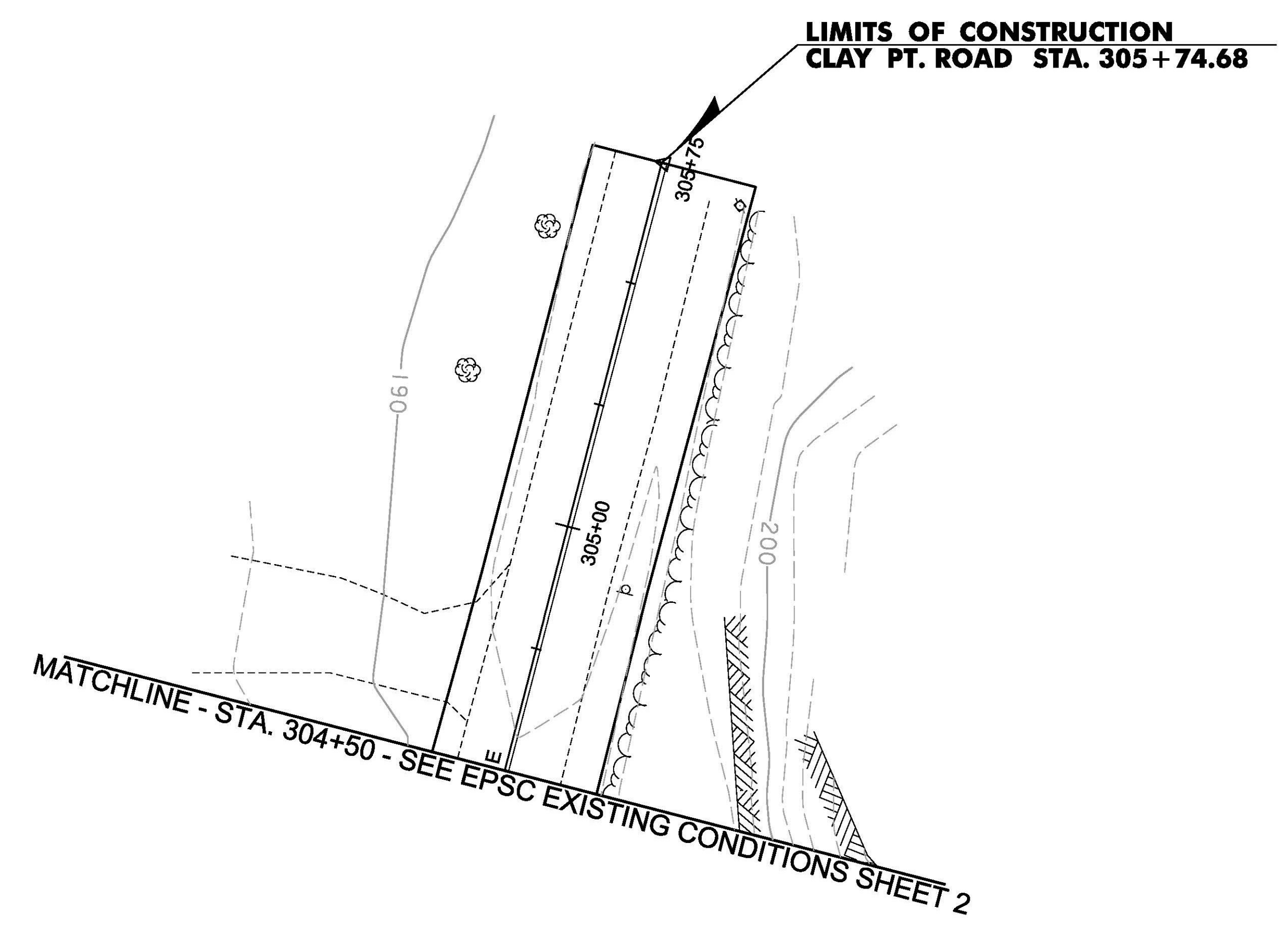
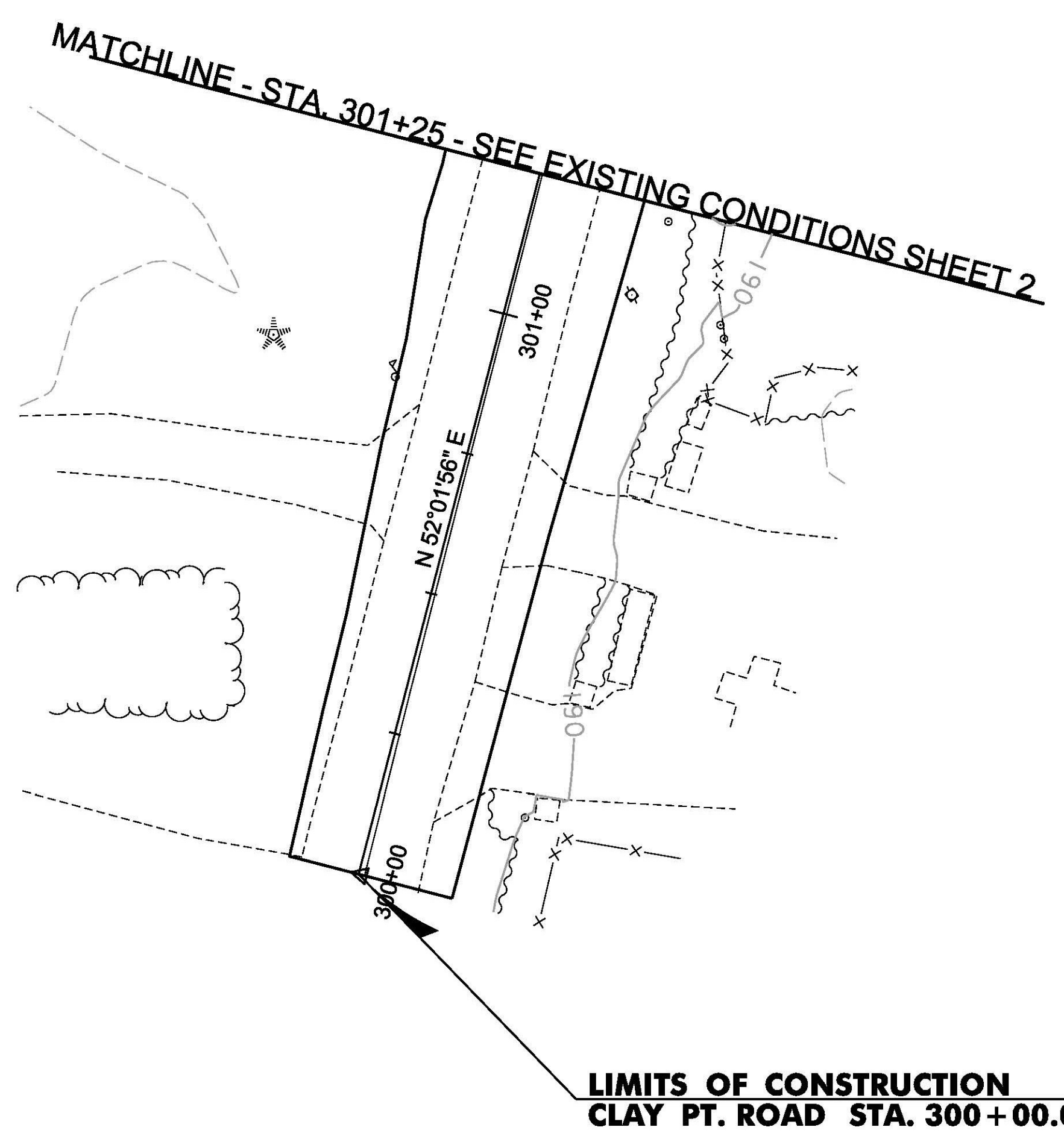


PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	DESIGNED BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC EXISTING CONDITIONS SHEET 4	SHEET 45 OF 91



ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYRDO. SOIL GROUP A  
 K = 0.17

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYRDO. SOIL GROUP A  
 K = 0.17



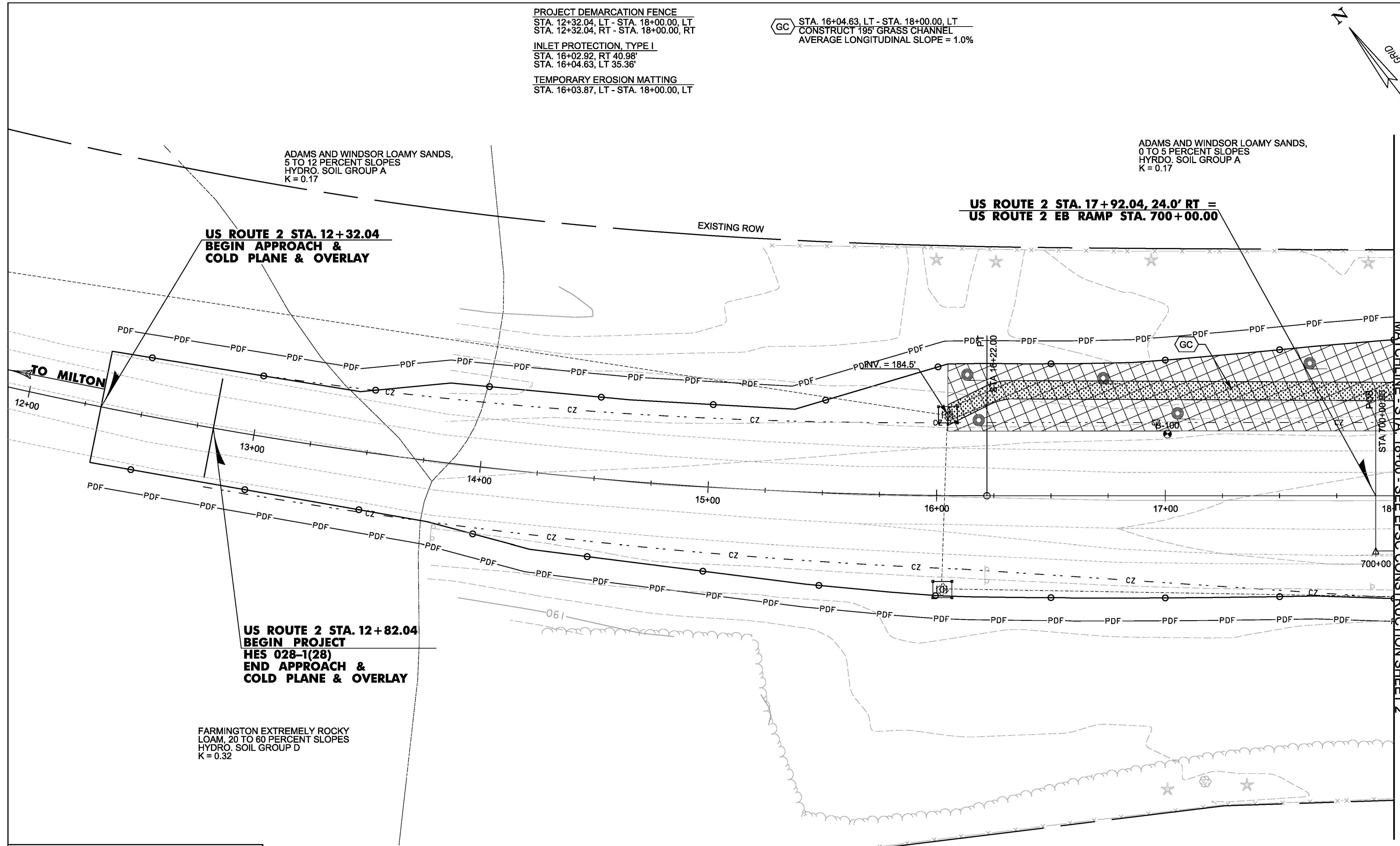
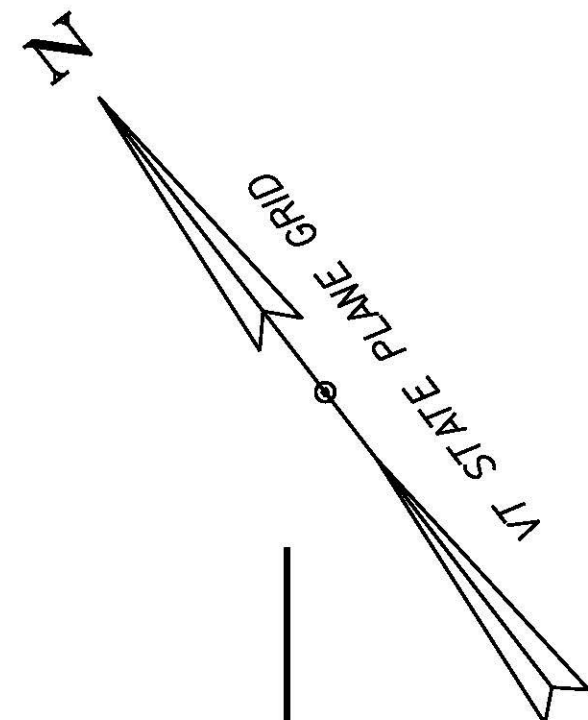
PROJECT NAME:	COLCHESTER	PLOT DATE:	11/23/2015
PROJECT NUMBER:	HES 028-1(28)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t13b028ero.dgn	CHECKED BY:	M. LACROIX
PROJECT LEADER:	P. COBURN	DESIGNED BY:	M. BOGACZYK
DESIGNED BY:	M. BOGACZYK	EPSC EXISTING CONDITIONS SHEET 5	SHEET 46 OF 91

**PROJECT DEMARCATION FENCE**  
 STA. 12+32.04, LT - STA. 18+00.00, LT  
 STA. 12+32.04, RT - STA. 18+00.00, RT

**INLET PROTECTION, TYPE I**  
 STA. 16+02.92, RT 40.98'  
 STA. 16+04.63, LT 35.36'

**TEMPORARY EROSION MATTING**  
 STA. 16+03.87, LT - STA. 18+00.00, LT

**GC** STA. 16+04.63, LT - STA. 18+00.00, LT  
 CONSTRUCT 195' GRASS CHANNEL  
 AVERAGE LONGITUDINAL SLOPE = 1.0%

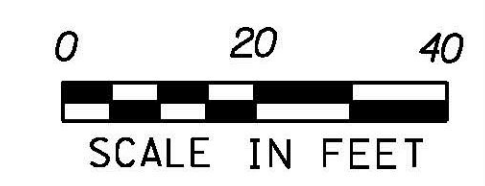


MATCHLINE - STA. 18+00 - SEE EPSC CONSTRUCTION SHEET 2

**LEGEND**

- LIMITS OF CONSTRUCTION
- PROJECT DEMARCATION FENCE
- TEMPORARY STONE CHECK DAM, TYPE I
- TEMPORARY EROSION MATTING
- INLET PROTECTION, TYPE I

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYDRD. SOIL GROUP A  
 K = 0.17



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DESIGNED BY: M. BOGACZYK	SHEET 47 OF 91
EPSC CONSTRUCTION SHEET 1	

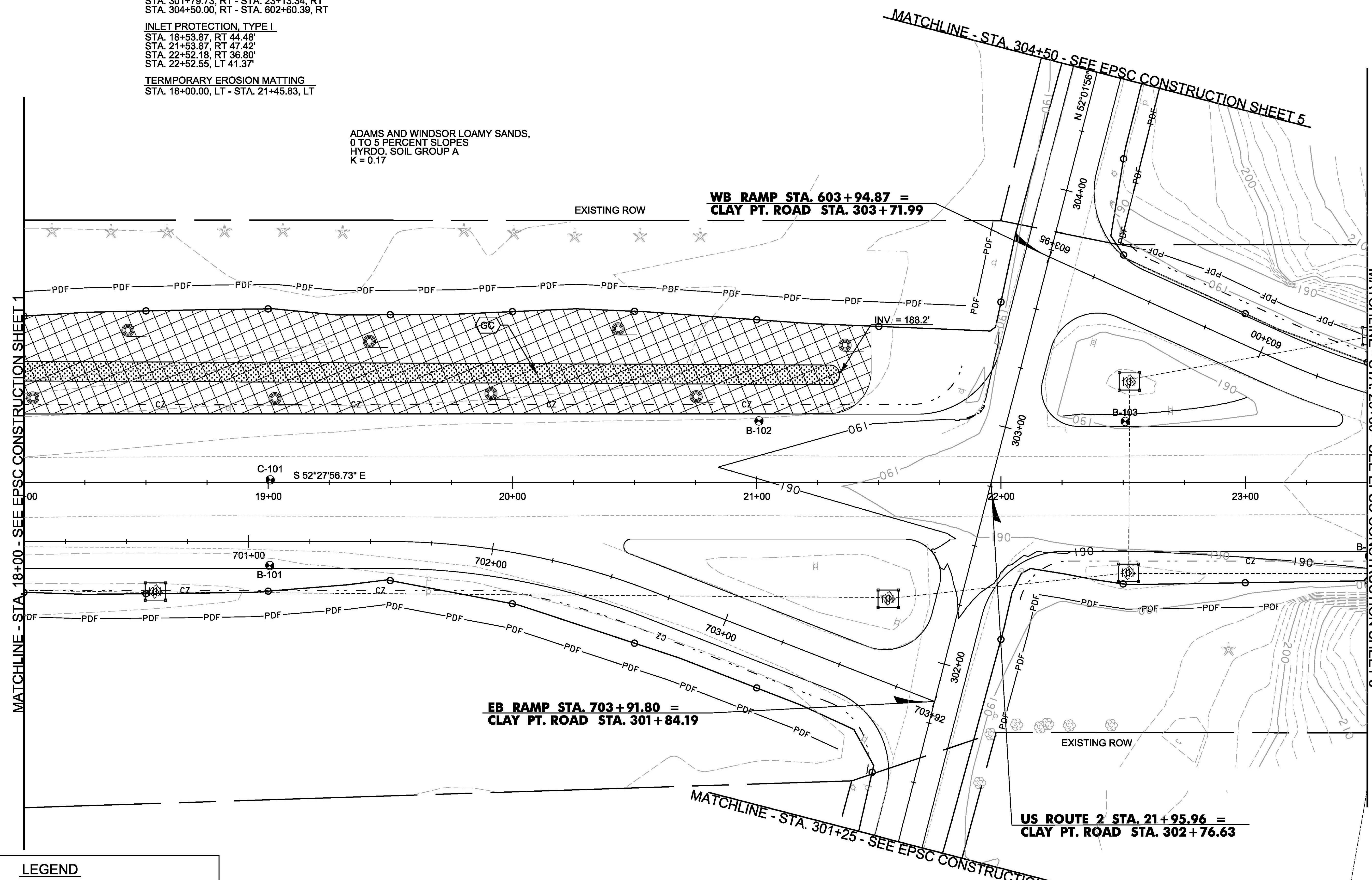
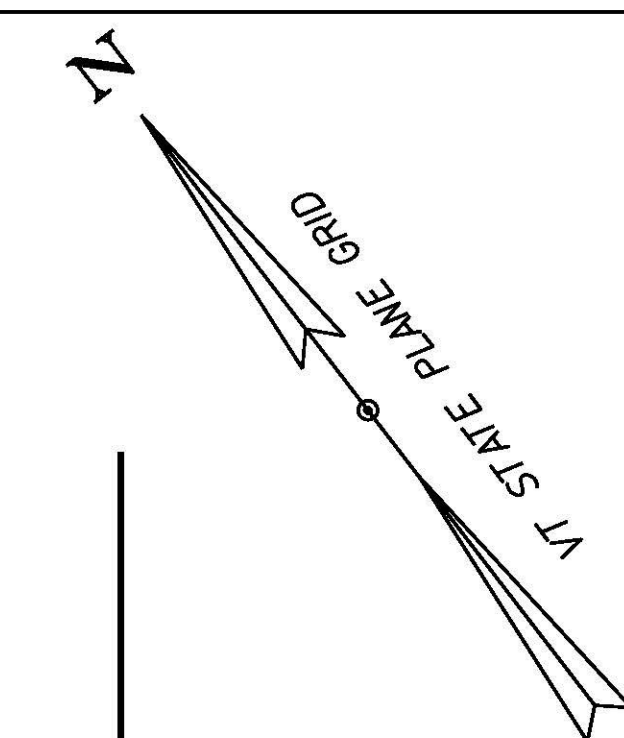
PROJECT DEMARCATION FENCE  
 STA. 18+00.00, LT - STA. 303+79.77, LT  
 STA. 18+00.00, RT - STA. 703+62.14, RT  
 STA. 301+79.73, RT - STA. 23+13.34, RT  
 STA. 304+50.00, RT - STA. 602+60.39, RT

INLET PROTECTION, TYPE I  
 STA. 18+53.87, RT 44.48'  
 STA. 21+53.87, RT 47.42'  
 STA. 22+52.18, RT 36.80'  
 STA. 22+52.55, LT 41.37'

TEMPORARY EROSION MATTING  
 STA. 18+00.00, LT - STA. 21+45.83, LT

GC STA. 18+00.00, LT - STA. 21+33.96, LT  
 CONSTRUCT 339' GRASS CHANNEL  
 AVERAGE LONGITUDINAL SLOPE = 1.0%

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYRDO. SOIL GROUP A  
 K = 0.17



MATCHLINE - STA. 18+00 - SEE EPSC CONSTRUCTION SHEET 1

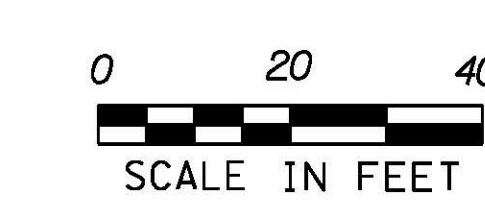
MATCHLINE - STA. 23+50 - SEE EPSC CONSTRUCTION SHEET 3

MATCHLINE - STA. 304+50 - SEE EPSC CONSTRUCTION SHEET 5

MATCHLINE - STA. 301+25 - SEE EPSC CONSTRUCTION SHEET 5

**LEGEND**

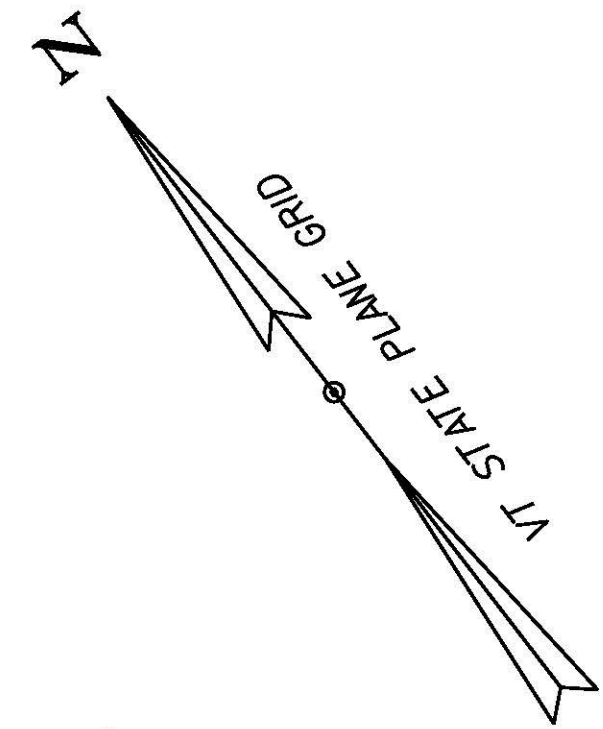
	LIMITS OF CONSTRUCTION
	PROJECT DEMARCATION FENCE
	TEMPORARY STONE CHECK DAM, TYPE I
	TEMPORARY EROSION MATTING
	INLET PROTECTION, TYPE I



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
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PROJECT LEADER: P. COBURN	SHEET 48 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC CONSTRUCTION SHEET 2	

**INLET PROTECTION, TYPE I**  
 STA. 23+52.29, LT 59.90'  
 STA. 24+50.53, RT 36.95'  
 STA. 28+52.89, LT 36.11'  
 STA. 28+53.74, RT 35.95'

**PROJECT DEMARCATION FENCE**  
 STA. 602+60.39, RT - STA. 602+22.84, RT



FARMINGTON EXTREMELY ROCKY  
 LOAM, 5 TO 20 PERCENT SLOPES  
 HYDRO. SOIL GROUP D  
 K = 0.32

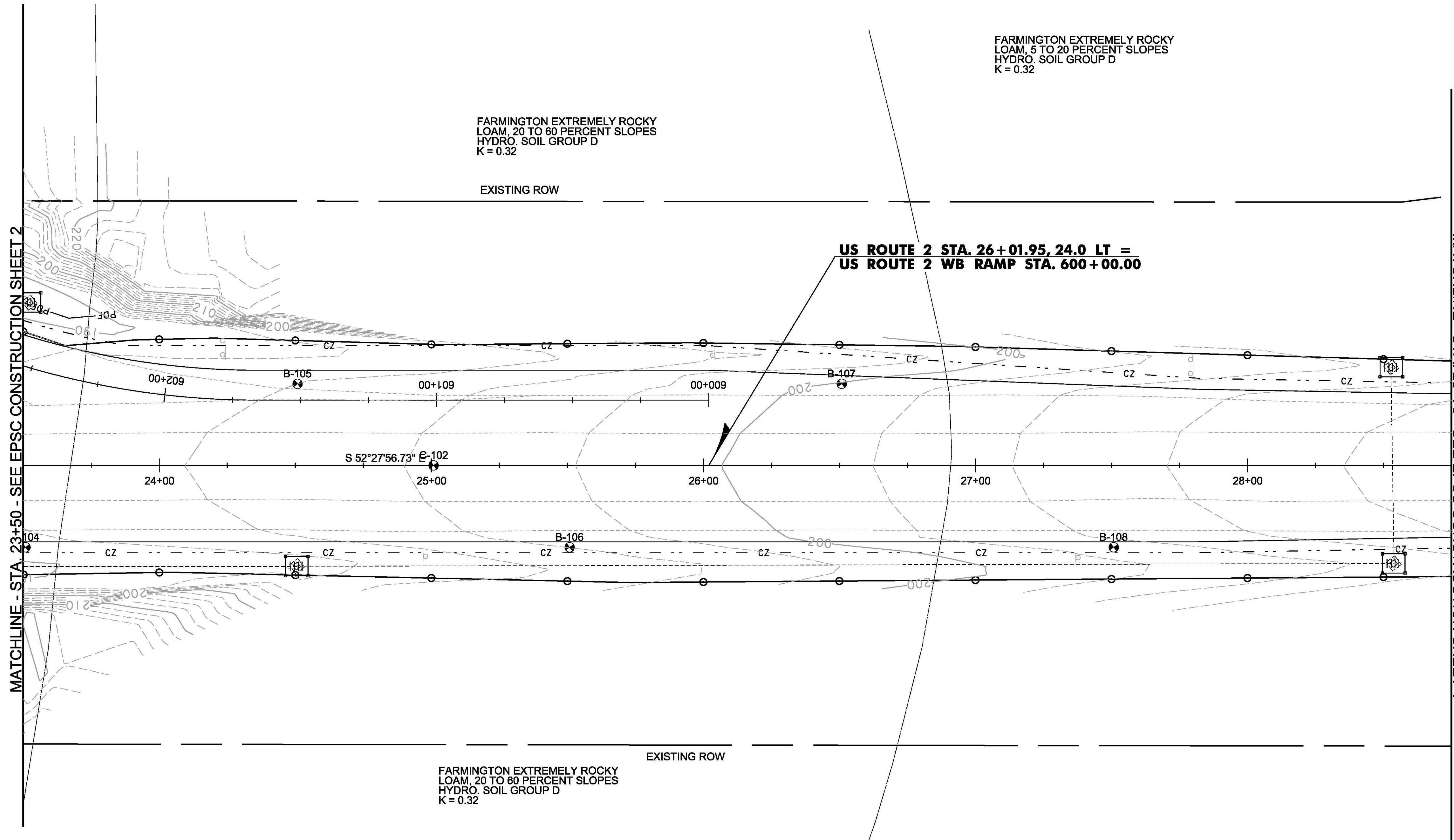
FARMINGTON EXTREMELY ROCKY  
 LOAM, 20 TO 60 PERCENT SLOPES  
 HYDRO. SOIL GROUP D  
 K = 0.32

EXISTING ROW

**US ROUTE 2 STA. 26+01.95, 24.0 LT =  
 US ROUTE 2 WB RAMP STA. 600+00.00**

MATCHLINE - STA. 23+50 - SEE EPSC CONSTRUCTION SHEET 2

MATCHLINE - STA. 28+75 - SEE EPSC CONSTRUCTION SHEET 4

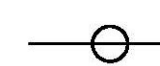






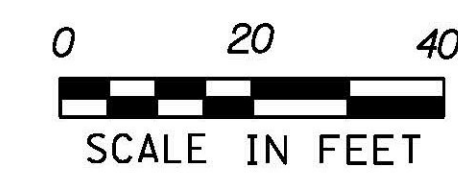
FARMINGTON EXTREMELY ROCKY  
 LOAM, 20 TO 60 PERCENT SLOPES  
 HYDRO. SOIL GROUP D  
 K = 0.32

EXISTING ROW

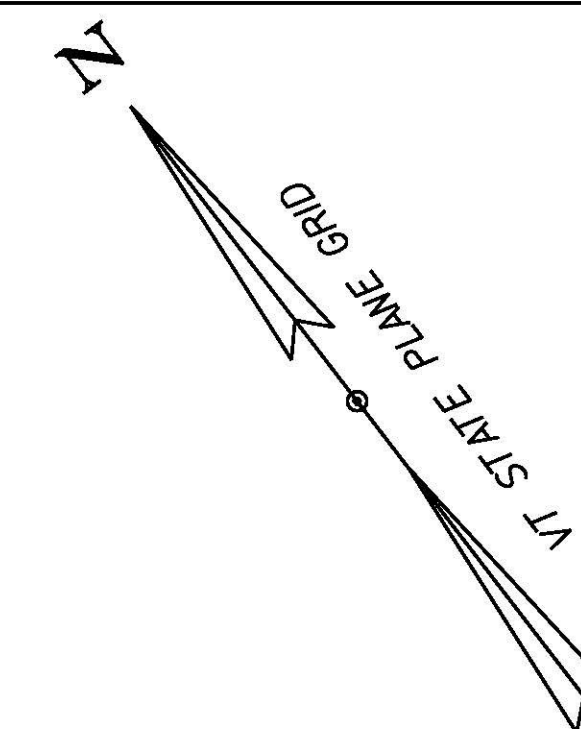
SCANTIC SILT LOAM,  
 2 TO 6 PERCENT SLOPES  
 HYDRO. SOIL GROUP D  
 K = 0.32

**LEGEND**

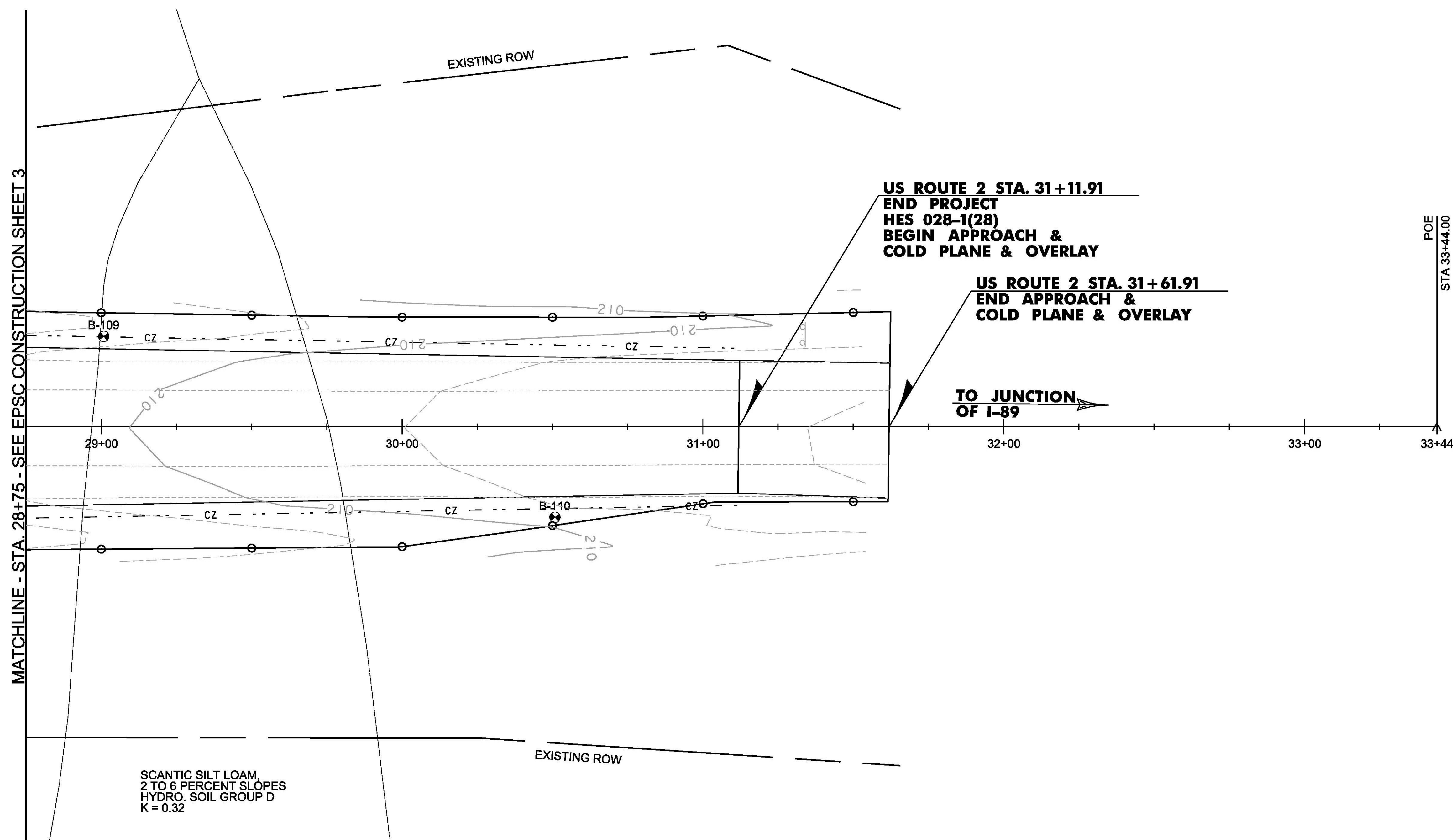
-  LIMITS OF CONSTRUCTION
-  PROJECT DEMARCATION FENCE
-  TEMPORARY STONE CHECK DAM, TYPE I
-  TEMPORARY EROSION MATTING
-  INLET PROTECTION, TYPE I



PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028ero.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC CONSTRUCTION SHEET 3	SHEET 49 OF 91

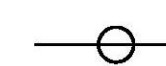






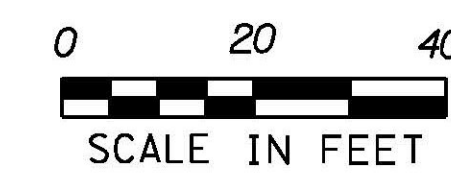
FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32



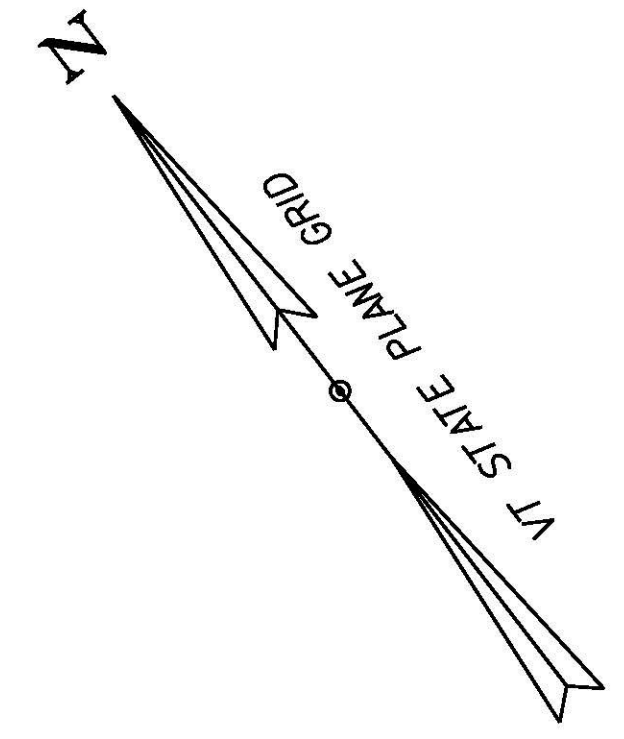
MATCHLINE - STA. 28+75 - SEE EPSC CONSTRUCTION SHEET 3

**LEGEND**

-  LIMITS OF CONSTRUCTION
-  PROJECT DEMARCATION FENCE
-  TEMPORARY STONE CHECK DAM, TYPE I
-  TEMPORARY EROSION MATTING
-  INLET PROTECTION, TYPE I

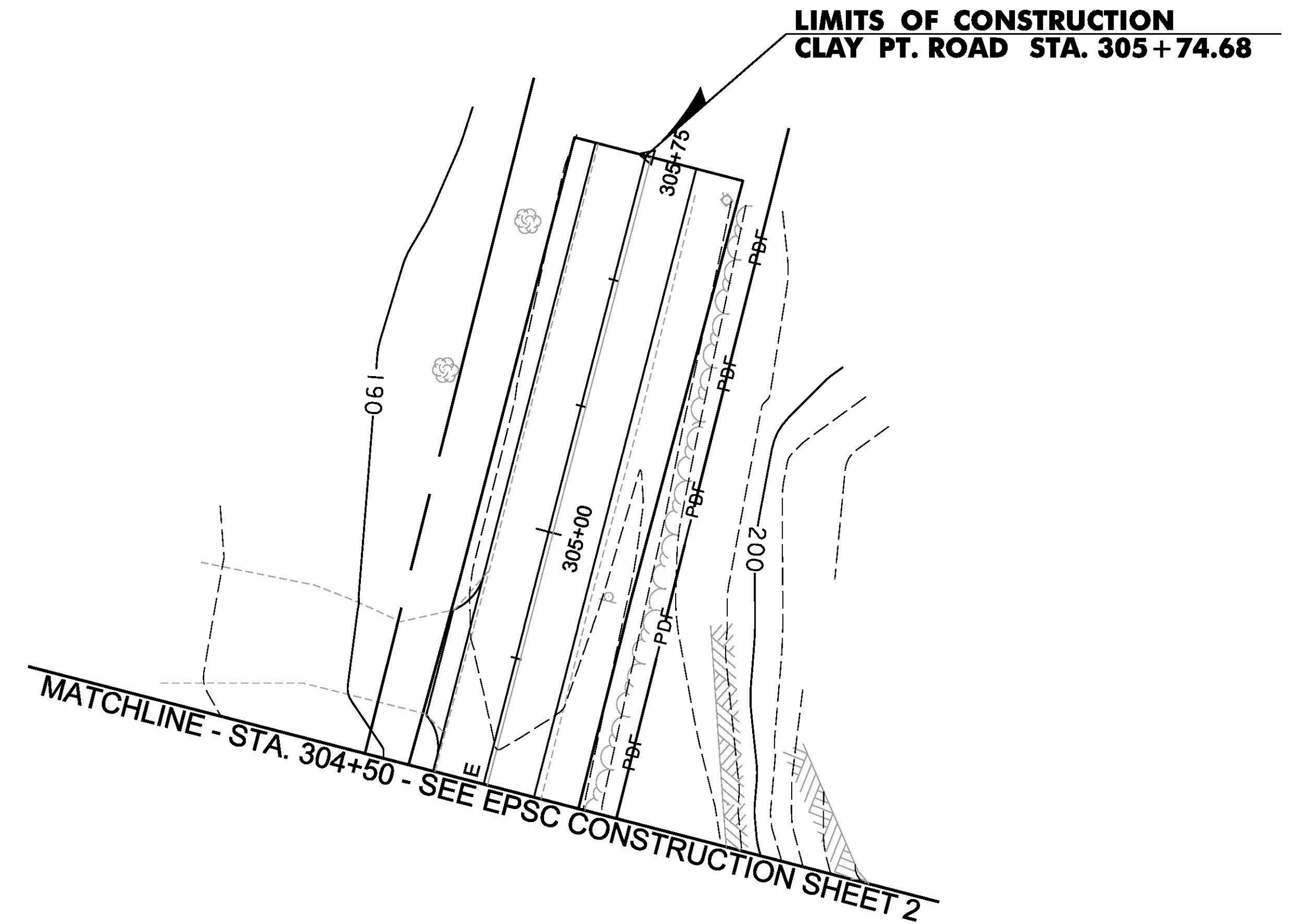
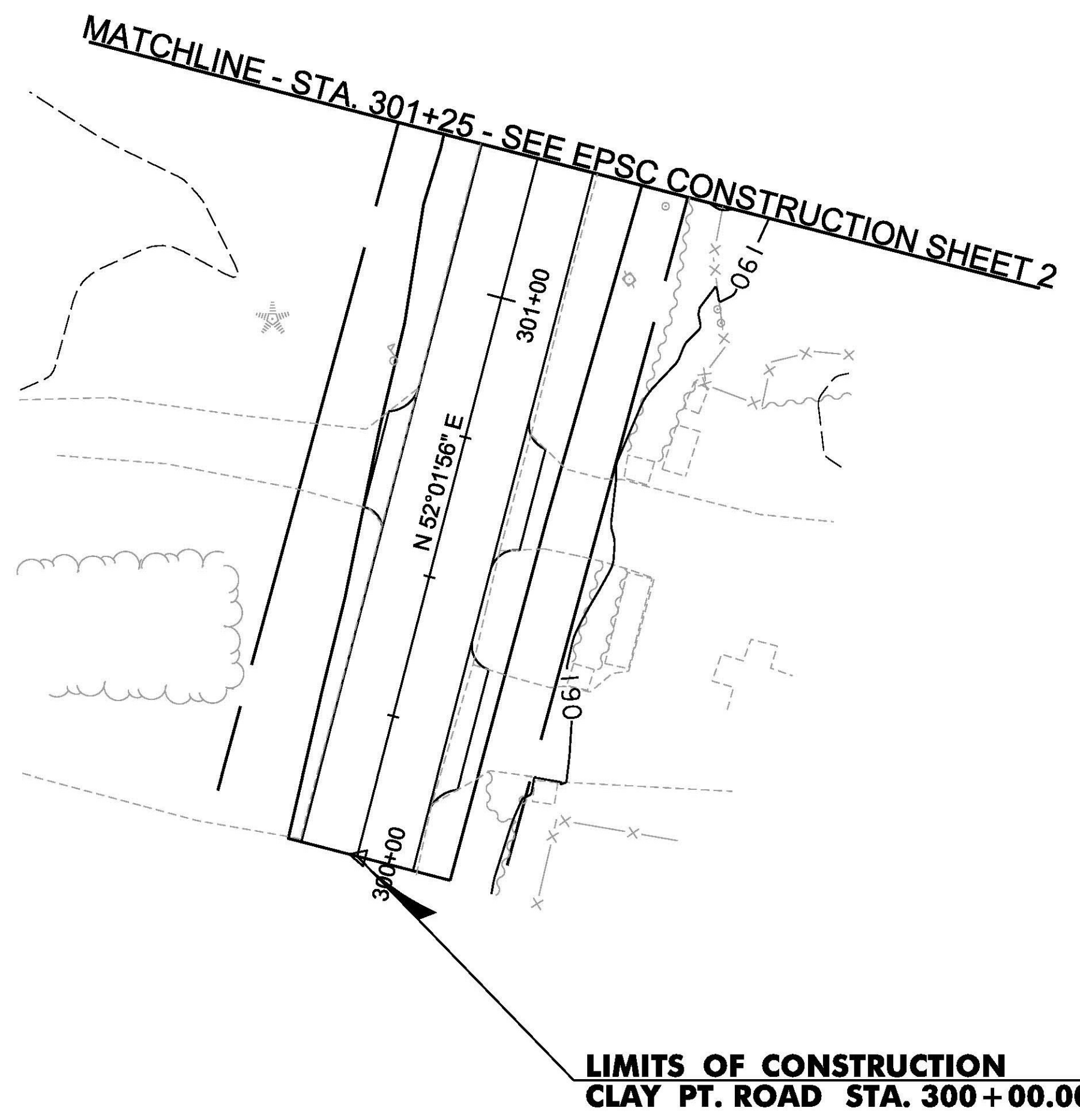


PROJECT NAME: COLCHESTER		PLOT DATE: 11/23/2015	
PROJECT NUMBER: HES 028-1(28)		DRAWN BY: M. BOGACZYK	
FILE NAME: t13b028ero.dgn	DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX	SHEET 50 OF 91
PROJECT LEADER: P. COBURN	EPSC CONSTRUCTION SHEET 4		

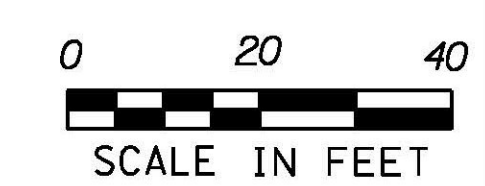


ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17

ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17

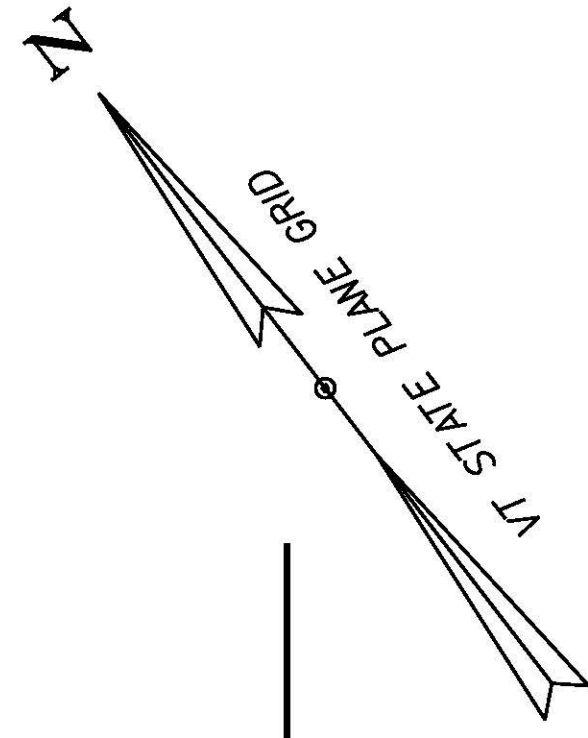


LEGEND	
	LIMITS OF CONSTRUCTION
	PROJECT DEMARCATION FENCE
	TEMPORARY STONE CHECK DAM, TYPE I
	TEMPORARY EROSION MATTING
	INLET PROTECTION, TYPE I



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	DESIGNED BY: M. BOGACZYK
PROJECT LEADER: P. COBURN	CHECKED BY: M. LACROIX
EPSC CONSTRUCTION SHEET 5	SHEET 51 OF 91

GC STA. 16+04.63, LT - STA. 18+00.00, LT  
 CONSTRUCT 195' GRASS CHANNEL  
 AVERAGE LONGITUDINAL SLOPE = 1.0%



ADAMS AND WINDSOR LOAMY SANDS,  
 5 TO 12 PERCENT SLOPES  
 HYDRO. SOIL GROUP A  
 K = 0.17

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYDRO. SOIL GROUP A  
 K = 0.17

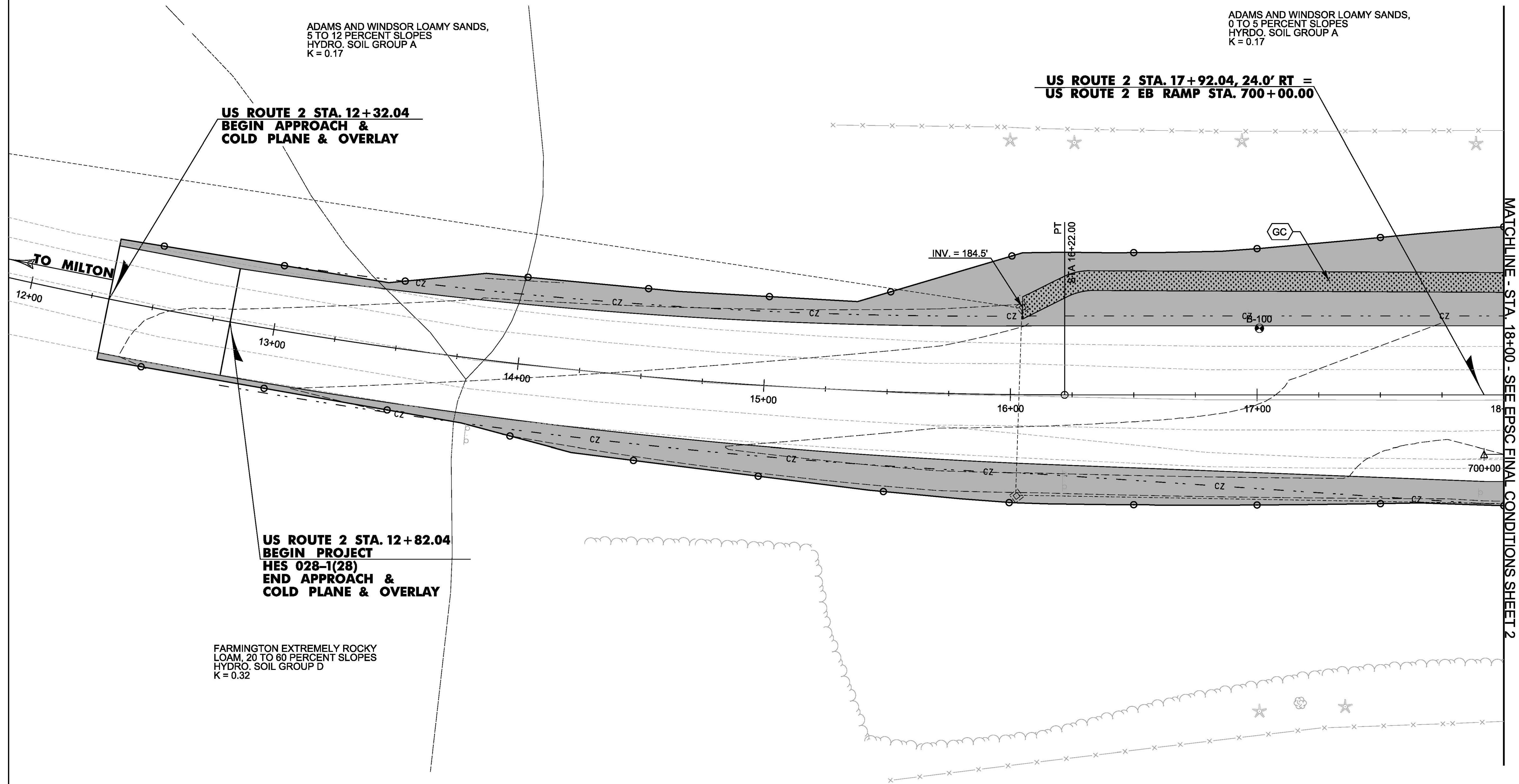
**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
 US ROUTE 2 EB RAMP STA. 700+00.00**

**US ROUTE 2 STA. 12+32.04  
 BEGIN APPROACH &  
 COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+82.04  
 BEGIN PROJECT  
 HES 028-1(28)  
 END APPROACH &  
 COLD PLANE & OVERLAY**

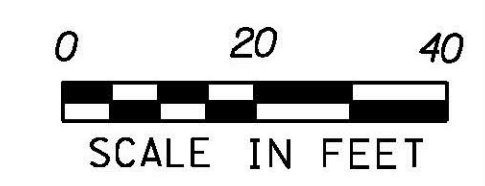
FARMINGTON EXTREMELY ROCKY  
 LOAM, 20 TO 60 PERCENT SLOPES  
 HYDRO. SOIL GROUP D  
 K = 0.32

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYDRO. SOIL GROUP A  
 K = 0.17

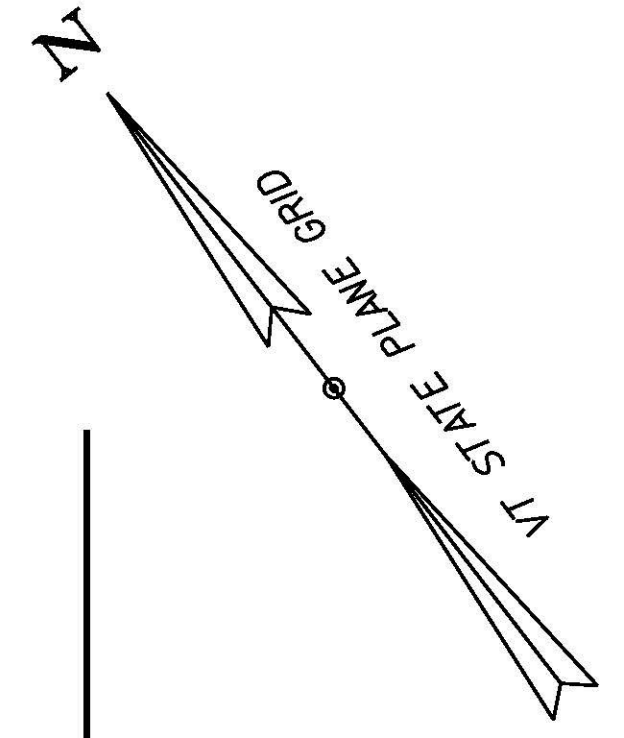


MATCHLINE - STA. 18+00 - SEE EPSC FINAL CONDITIONS SHEET 2

LEGEND	
	LIMITS OF CONSTRUCTION
	DISTURBED AREA REQUIRED RE-VEGETATION



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 52 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC FINAL CONDITIONS SHEET 1	



ADAMS AND WINDSOR LOAMY SANDS,  
0 TO 5 PERCENT SLOPES  
HYRDO. SOIL GROUP A  
K = 0.17

**WB RAMP STA. 603+94.87 =  
CLAY PT. ROAD STA. 303+71.99**

**EB RAMP STA. 703+91.80 =  
CLAY PT. ROAD STA. 301+84.19**

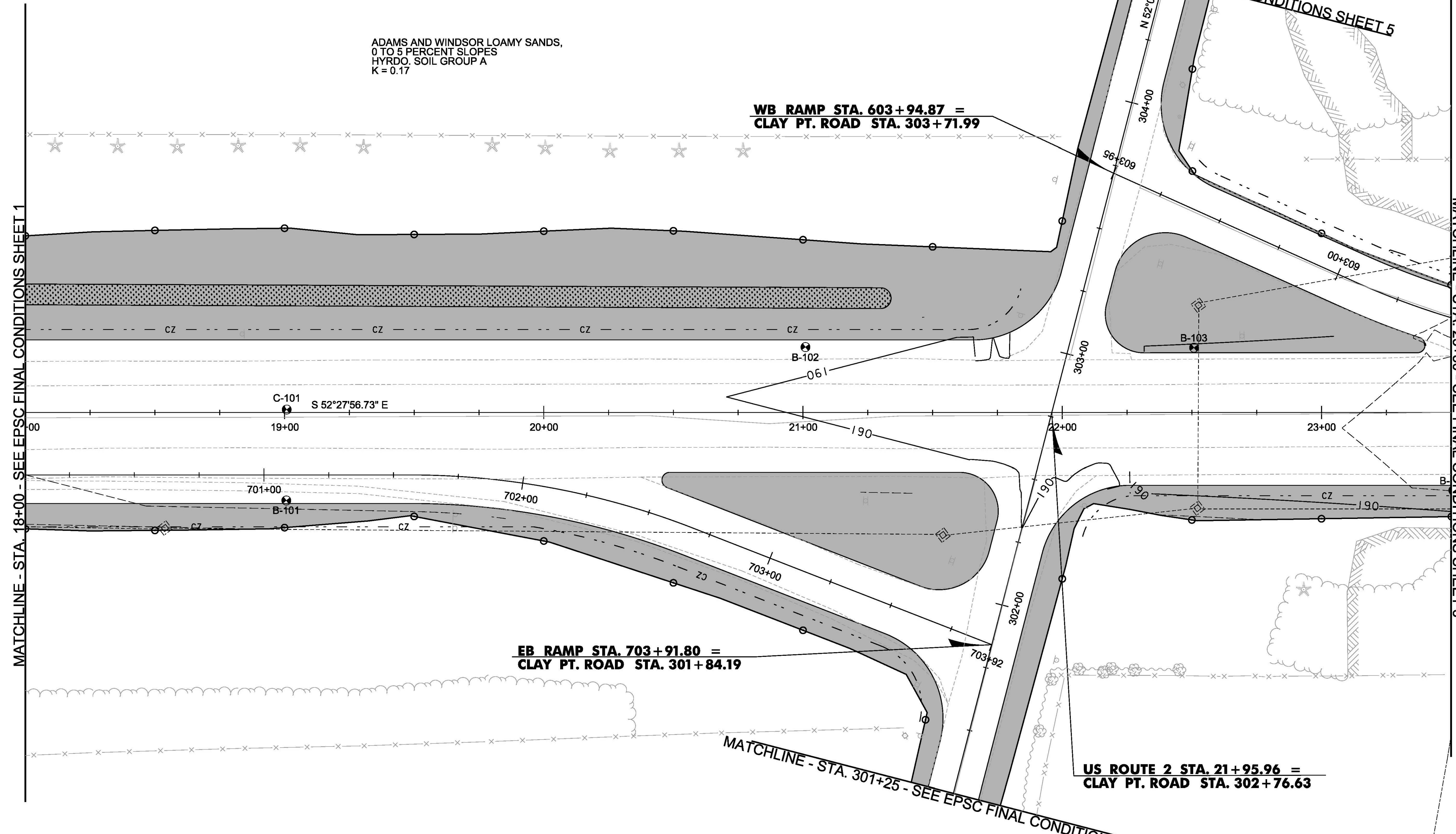
**US ROUTE 2 STA. 21+95.96 =  
CLAY PT. ROAD STA. 302+76.63**

MATCHLINE - STA. 18+00 - SEE EPSC FINAL CONDITIONS SHEET 1

MATCHLINE - STA. 23+50 - SEE FINAL CONDITIONS SHEET 3

MATCHLINE - STA. 304+50 - SEE EPSC FINAL CONDITIONS SHEET 5

MATCHLINE - STA. 301+25 - SEE EPSC FINAL CONDITIONS SHEET 5

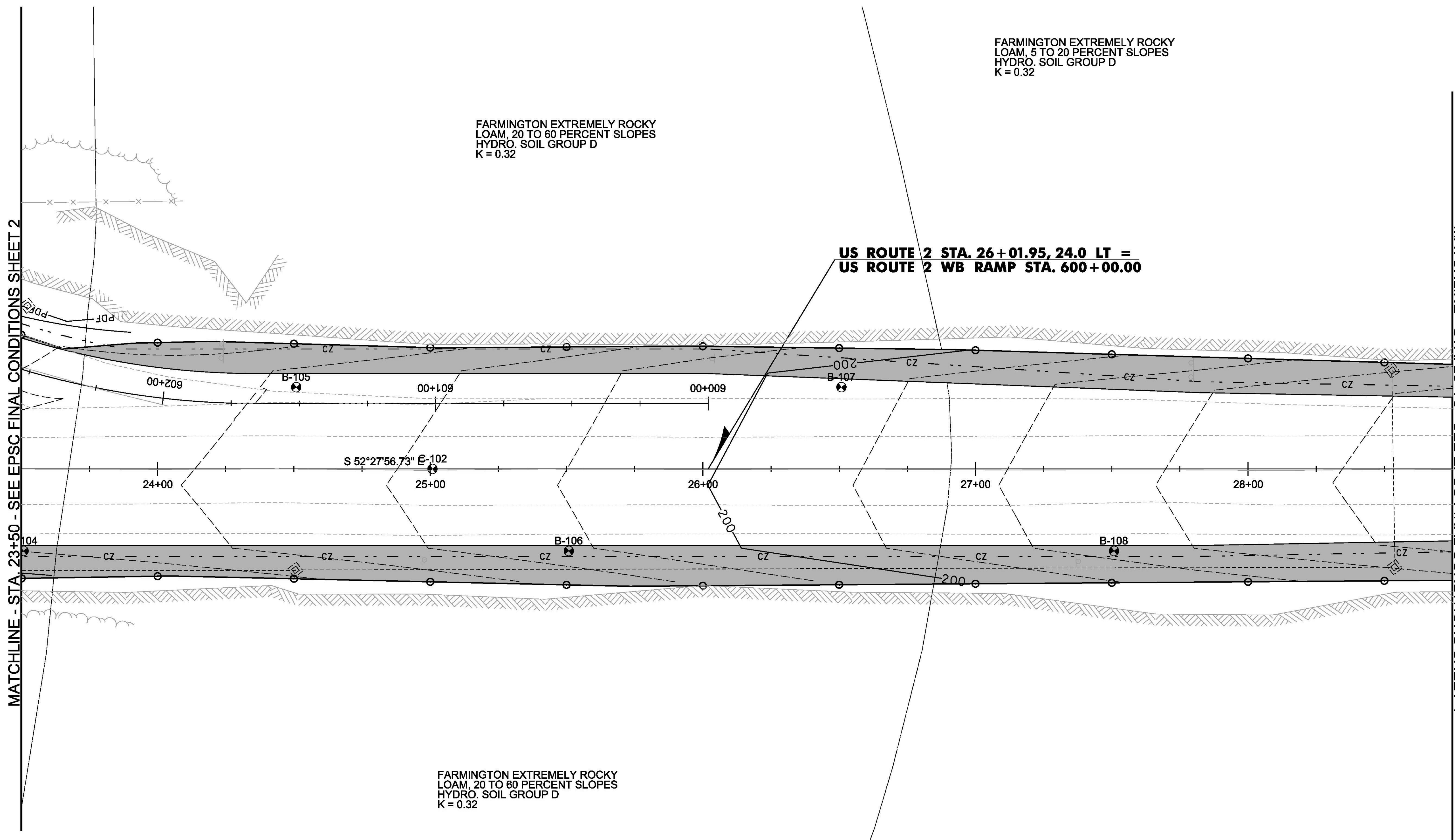
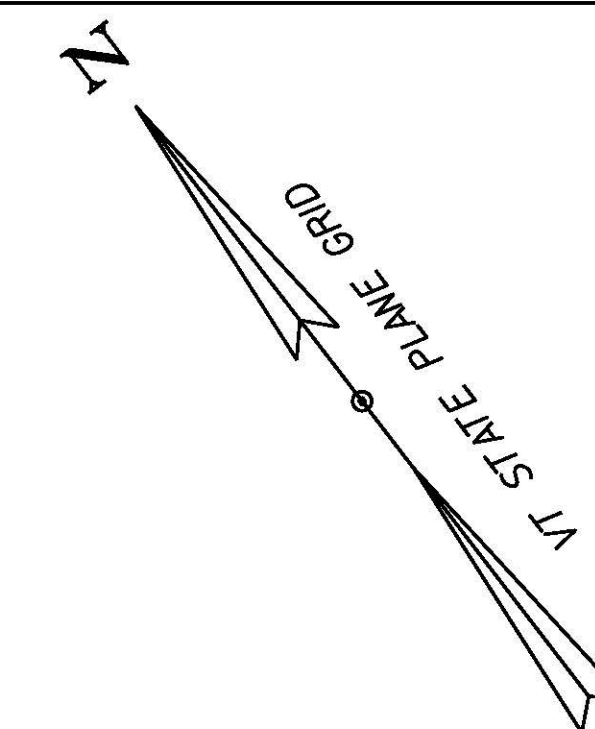


**LEGEND**

- LIMITS OF CONSTRUCTION
- DISTURBED AREA  
REQUIRED RE-VEGETATION



PROJECT NAME: COLCHESTER		PLOT DATE: 11/23/2015	
PROJECT NUMBER: HES 028-1(28)		DRAWN BY: M. BOGACZYK	
FILE NAME: t13b028ero.dgn	DESIGNED BY: M. BOGACZYK	EPSC FINAL CONDITIONS SHEET 2	CHECKED BY: M. LACROIX
		SHEET 53 OF 54	



MATCHLINE - STA. 23+50 - SEE EPSC FINAL CONDITIONS SHEET 2

MATCHLINE - STA. 28+75 - SEE EPSC FINAL CONDITIONS SHEET 4

FARMINGTON EXTREMELY ROCKY  
LOAM, 5 TO 20 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

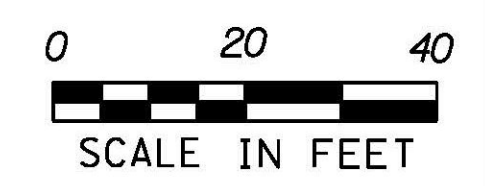
FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

**US ROUTE 2 STA. 26+01.95, 24.0 LT =  
US ROUTE 2 WB RAMP STA. 600+00.00**

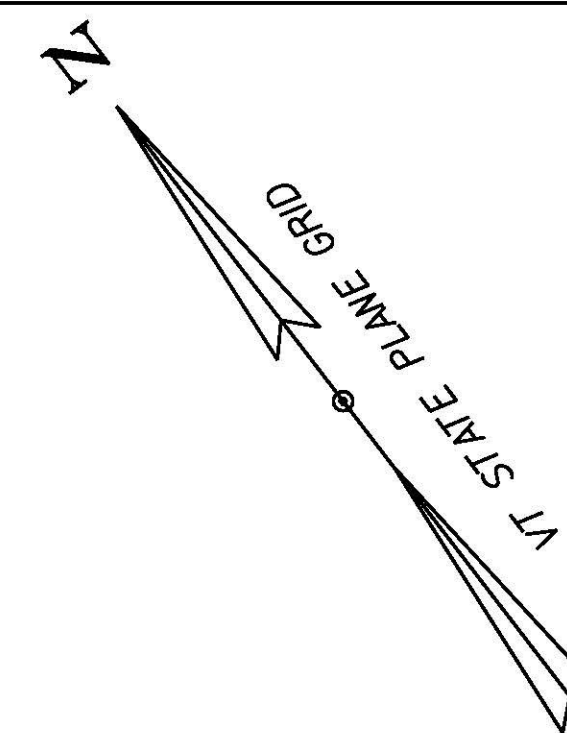
FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

SCANTIC SILT LOAM,  
2 TO 6 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

LEGEND	
	LIMITS OF CONSTRUCTION
	DISTURBED AREA REQUIRED RE-VEGETATION

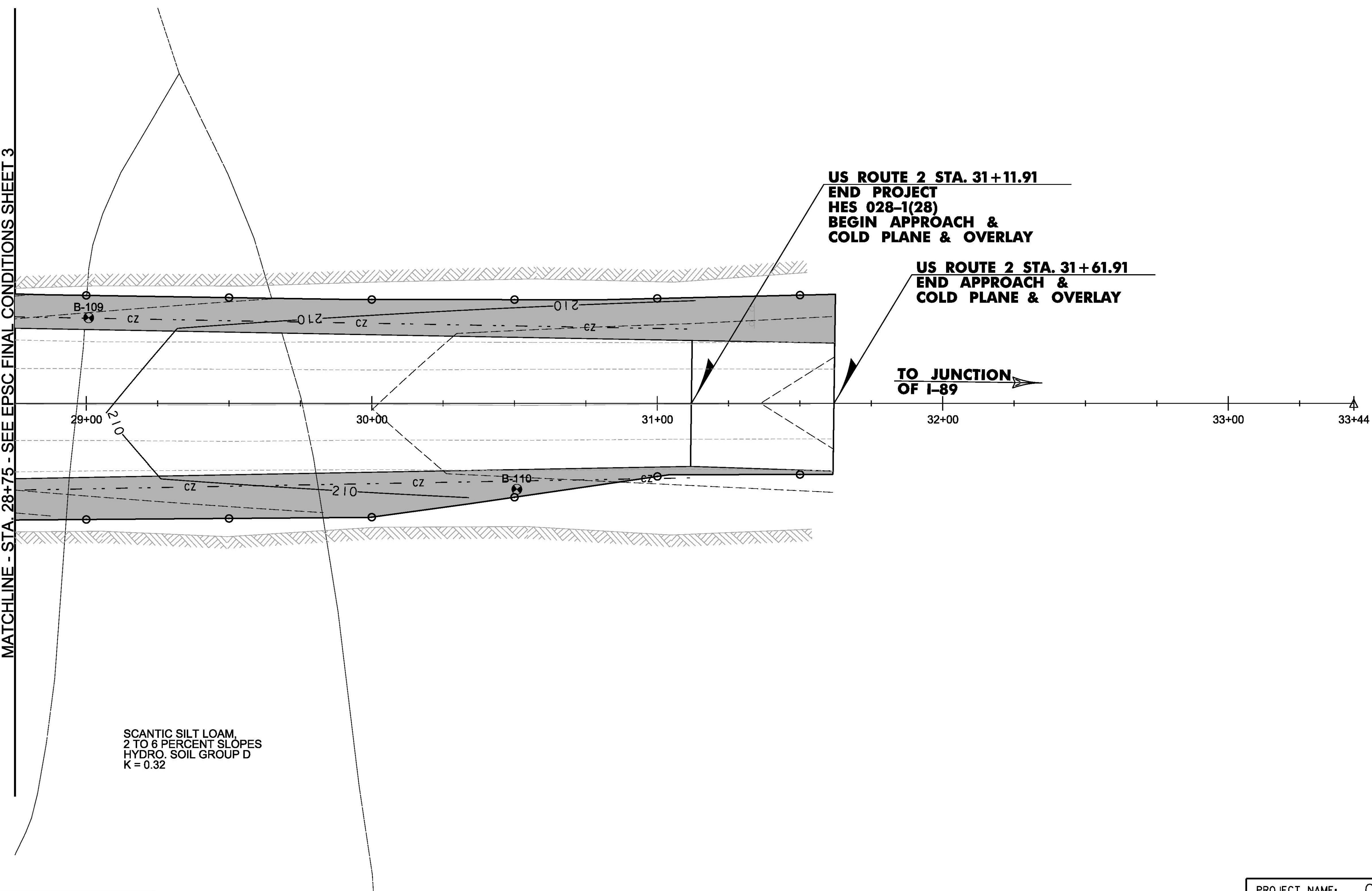


PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 54 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC FINAL CONDITIONS SHEET 3	



FARMINGTON EXTREMELY ROCKY  
LOAM, 20 TO 60 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

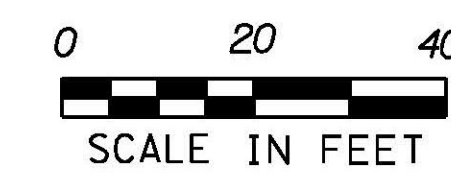
MATCHLINE - STA. 28+75 - SEE EPSC FINAL CONDITIONS SHEET 3



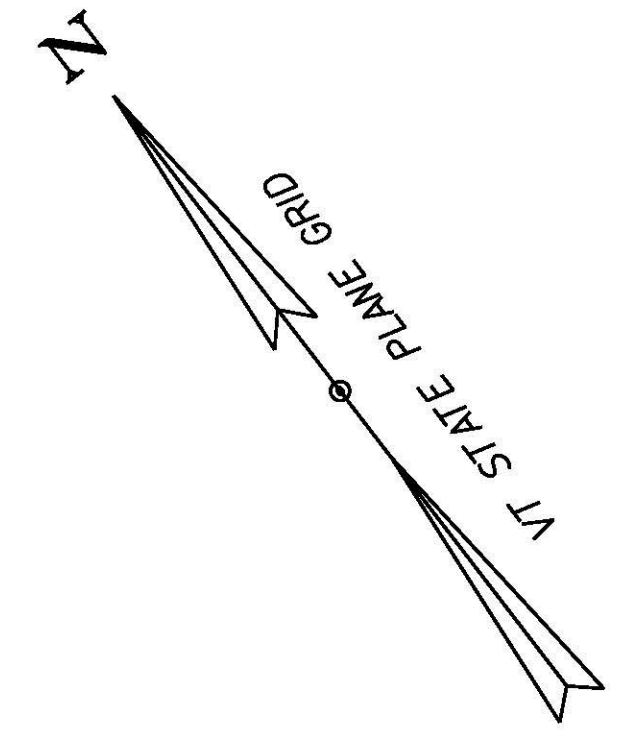
SCANTIC SILT LOAM,  
2 TO 6 PERCENT SLOPES  
HYDRO. SOIL GROUP D  
K = 0.32

**LEGEND**

- — LIMITS OF CONSTRUCTION
- DISTURBED AREA  
REQUIRED RE-VEGETATION



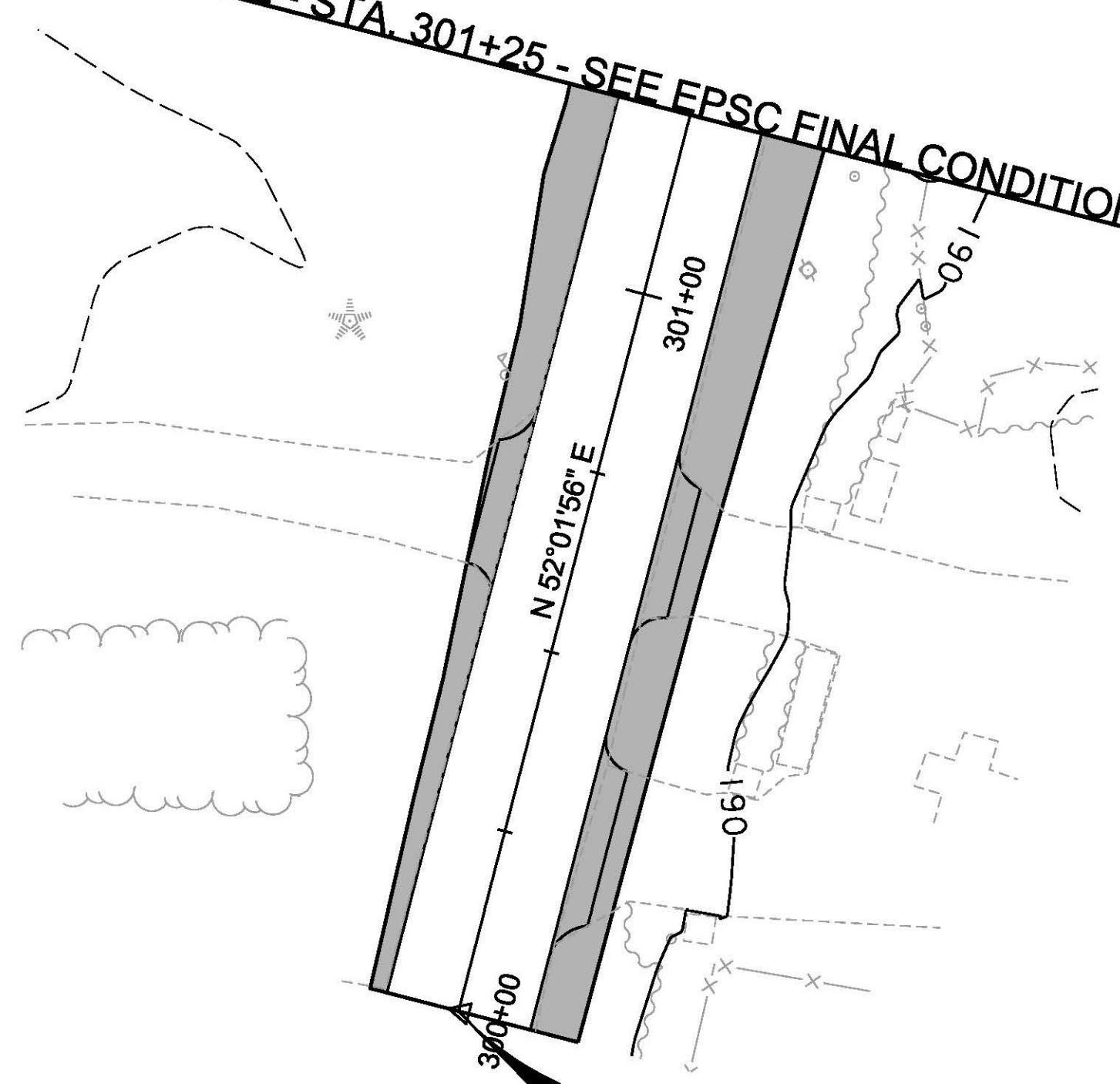
PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028ero.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC FINAL CONDITIONS SHEET 4	SHEET 55 OF 91



ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYRDO. SOIL GROUP A  
 K = 0.17

ADAMS AND WINDSOR LOAMY SANDS,  
 0 TO 5 PERCENT SLOPES  
 HYRDO. SOIL GROUP A  
 K = 0.17

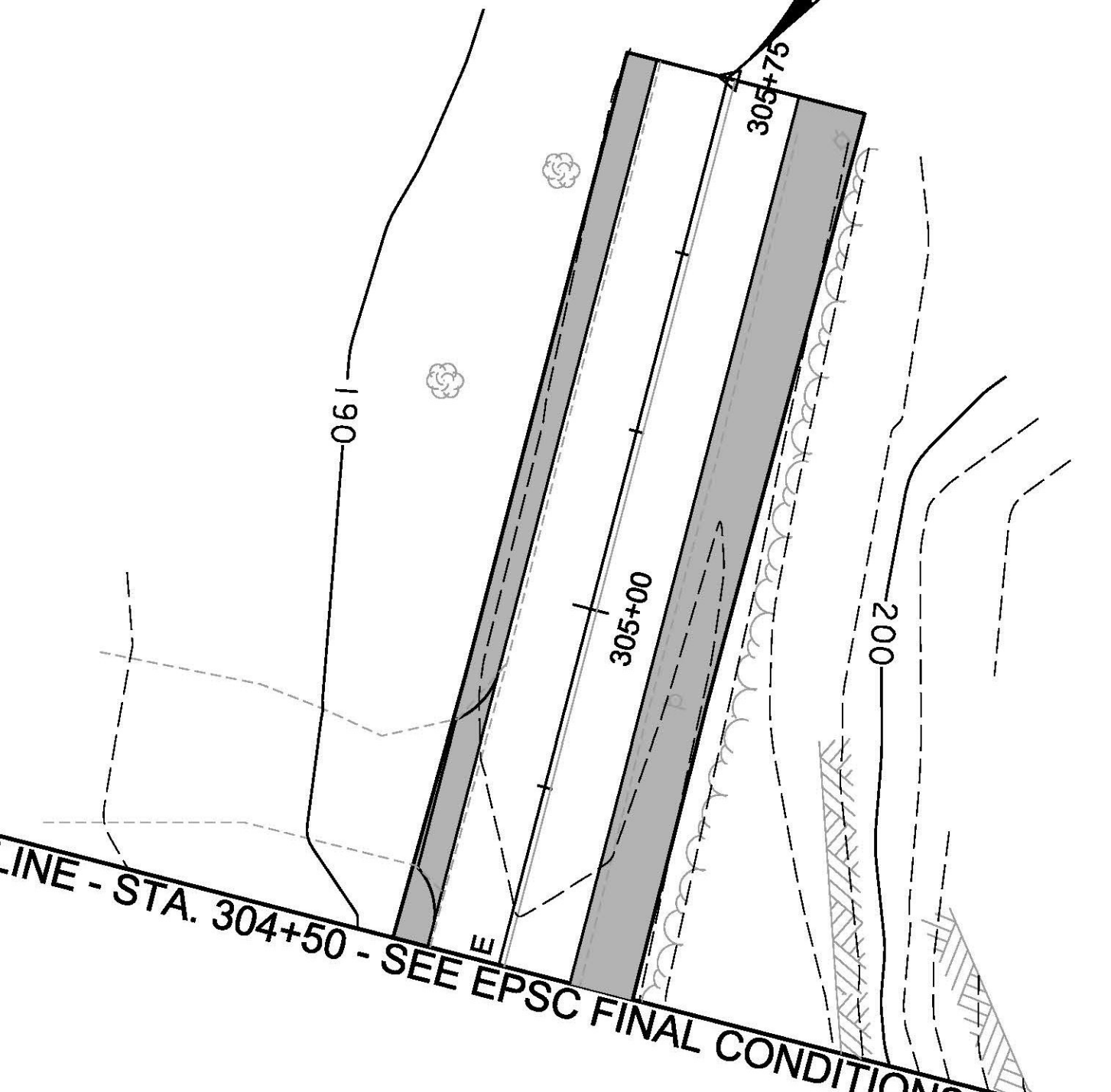
MATCHLINE - STA. 301+25 - SEE EPSC FINAL CONDITIONS SHEET 2



**LIMITS OF CONSTRUCTION**  
**CLAY PT. ROAD STA. 300+00.00**

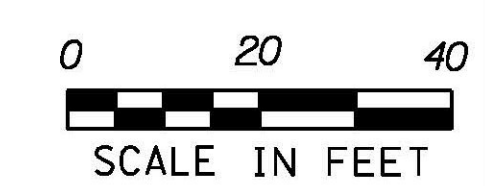
**LIMITS OF CONSTRUCTION**  
**CLAY PT. ROAD STA. 305+74.68**

MATCHLINE - STA. 304+50 - SEE EPSC FINAL CONDITIONS SHEET 2



**LEGEND**

- LIMITS OF CONSTRUCTION
- DISTURBED AREA  
REQUIRED RE-VEGETATION



PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028ero.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	SHEET 56 OF 91
DESIGNED BY: M. BOGACZYK	
EPSC FINAL CONDITIONS SHEET 5	

- DURABLE 4 INCH WHITE LINE, POLYUREA**
- (A1) STA. 12+32.04, LT - STA. 18+00.00, LT (SOLID) (565')
  - (A2) STA. 12+32.04, RT - STA. 18+00.00, RT (SOLID) (571')
  - (A3) STA. 16+22.01, LT - STA. 17+92.04, RT (DASHED) (170')
  - (A4) STA. 16+22.01, RT - STA. 17+92.04, RT (DASHED) (170')
  - (A5) STA. 17+92.04, RT - STA. 18+00.00, RT (SOLID) (8.0')
  - (A6) STA. 17+92.04, RT - STA. 18+00.00, RT (SOLID) (8.0')

**TRAFFIC SIGNS, TYPE A**  
SEE TRAFFIC SIGN SUMMARY SHEET

**SQUARE TUBE SIGN POST AND ANCHOR**  
SEE TRAFFIC SIGN SUMMARY SHEET

**REMOVING SIGNS**  
AS SHOWN - 2

**DURABLE 4 INCH YELLOW LINE, POLYUREA**

(B1) STA. 12+32.04, CL. - STA. 18+00.00, CL. (DOUBLE) (2075')

**DURABLE 8 INCH YELLOW LINE, POLYUREA**

(C1) STA. 13+12.78, CL. - STA. 17+82.00, LT (DIAGONALS) (244')

**DURABLE LETTER OR SYMBOL, POLYUREA**

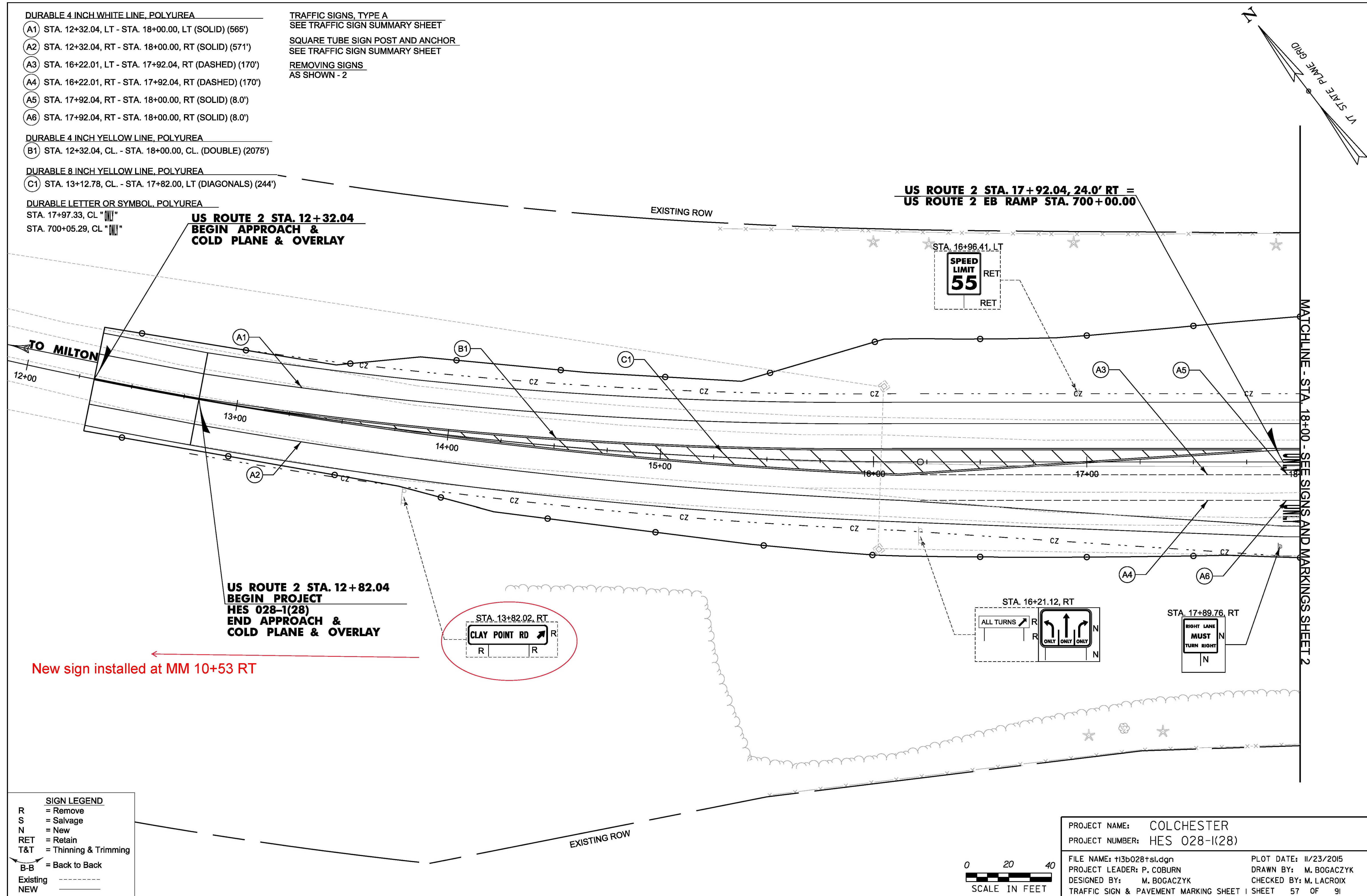
STA. 17+97.33, CL. "ONLY"

STA. 700+05.29, CL. "ONLY"

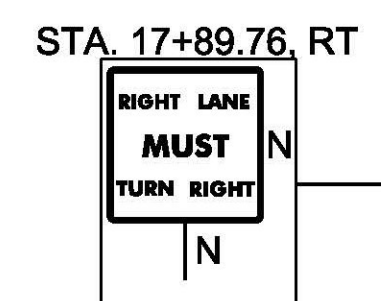
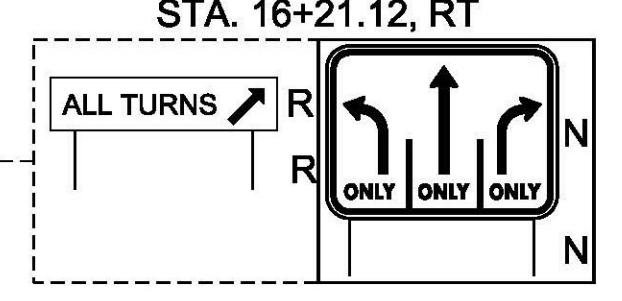
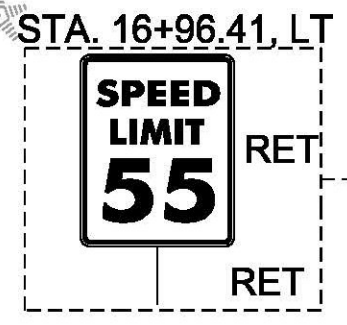
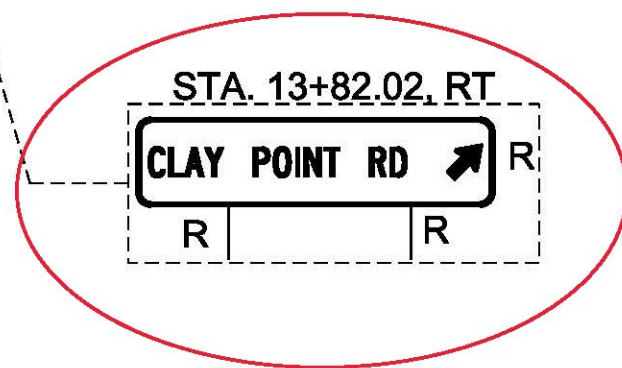
**US ROUTE 2 STA. 12+32.04**  
**BEGIN APPROACH &**  
**COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+82.04**  
**BEGIN PROJECT**  
**HES 028-1(28)**  
**END APPROACH &**  
**COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 17+92.04, 24.0' RT =**  
**US ROUTE 2 EB RAMP STA. 700+00.00**

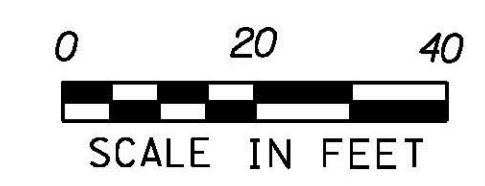


New sign installed at MM 10+53 RT



**SIGN LEGEND**

R	= Remove
S	= Salvage
N	= New
RET	= Retain
T&T	= Thinning & Trimming
B-B	= Back to Back
Existing	-----
NEW	-----



PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028+sl.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
TRAFFIC SIGN & PAVEMENT MARKING SHEET	I SHEET 57 OF 91
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX

- DURABLE 4 INCH WHITE LINE, POLYUREA**
- (A1) STA. 18+00.00, RT. - STA. 304+50.00, LT. (SOLID) (540')
  - (A2) STA. 18+00.00, RT. - STA. 301+25.00, LT. (SOLID) (416')
  - (A5) STA. 18+00.00, RT. - STA. 21+63.70, RT. (SOLID) (364')
  - (A6) STA. 18+00.00, RT. - STA. 302+01.26, RT. (SOLID) (429')
  - (A7) STA. 701+56.46, RT. - STA. 702+46.84, RT. (SOLID) (92')
  - (A9) STA. 304+50.00, RT. - STA. 23+50.00, LT. (SOLID) (194')
  - (A12) STA. 602+55.61, LT. - STA. 602+51.42, LT. (SOLID) (4')
  - (A14) STA. 303+53.18, LT. - STA. 23+50.00, LT. (SOLID) (134')
- DURABLE 4 INCH YELLOW LINE, POLYUREA**
- (B1) STA. 18+00.00, LT. - STA. 21+29.82, LT. (DOUBLE) (786')
  - (B2) STA. 702+46.84, RT. - STA. 703+33.88, RT. (129')
  - (B3) STA. 603+75.88, LT. - STA. 602+55.61, LT. (102')
  - (B4) STA. 22+29.99, RT. - STA. 23+50.00, RT. (DOUBLE) (240')
  - (B5) STA. 301+25.00, CL. - STA. 301+70.67, CL. (DOUBLE) (91')
  - (B6) STA. 302+07.19, CL. - STA. 302+43.66, CL. (DOUBLE) (73')
  - (B7) STA. 303+09.59, CL. - STA. 303+47.25, CL. (DOUBLE) (75')
  - (B8) STA. 303+83.39, CL. - STA. 304+50.00, CL. (DOUBLE) (133')

- DURABLE 8 INCH WHITE LINE, POLYUREA**
- (D1) STA. 19+48.49, RT. - STA. 20+48.47, RT. (GORE MARKINGS) (81')
  - (D2) STA. 23+35.85, LT. - STA. 23+50.00, LT. (GORE MARKINGS) (18')
- DURABLE 24 INCH STOP BAR, POLYUREA**
- STA. 703+74.91, LT. (29')
  - STA. 302+42.66, RT. (11')
  - STA. 303+10.59, LT. (11')
  - STA. 603+76.91, RT. (27')
- DURABLE LETTER OR SYMBOL, POLYUREA**
- STA. 19+09.34, CL "↖" STA. 302+32.37, RT "STOP"
  - STA. 701+16.85, CL "↗" STA. 303+20.88, LT "STOP"
  - STA. 20+42.44, CL "ONLY" STA. 302+32.41, RT. "STOP"
  - STA. 21+53.82, CL "↖" STA. 603+66.59, CL "STOP"
  - STA. 21+53.82, RT "↑" STA. 22+41.15, CL "↖"
  - STA. 703+64.59, CL "STOP" STA. 22+41.15, LT "↑"

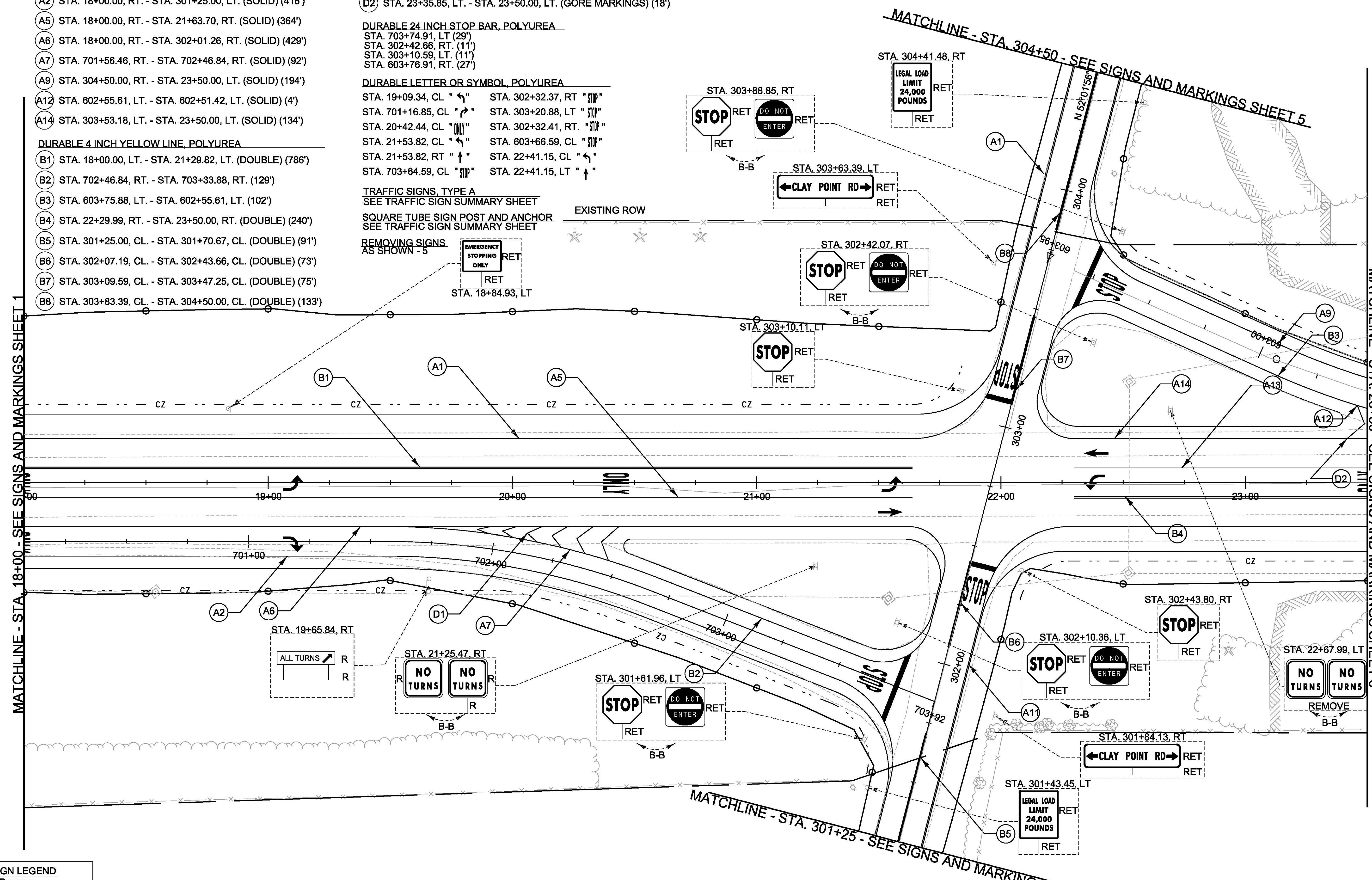
TRAFFIC SIGNS, TYPE A  
SEE TRAFFIC SIGN SUMMARY SHEET

SQUARE TUBE SIGN POST AND ANCHOR  
SEE TRAFFIC SIGN SUMMARY SHEET

REMOVING SIGNS  
AS SHOWN - 5

MATCHLINE - STA. 18+00 - SEE SIGNS AND MARKINGS SHEET 1

MATCHLINE - STA. 23+50 - SEE SIGNS AND MARKINGS SHEET 3



**SIGN LEGEND**

R	= Remove
S	= Salvage
N	= New
RET	= Retain
T&T	= Thinning & Trimming
B-B	= Back to Back
Existing	-----
NEW	-----



PROJECT NAME: COLCHESTER  
PROJECT NUMBER: HES 028-1(28)

FILE NAME: t13b028+sl.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
TRAFFIC SIGN & PAVEMENT MARKING SHEET 2 SHEET 58 OF 91

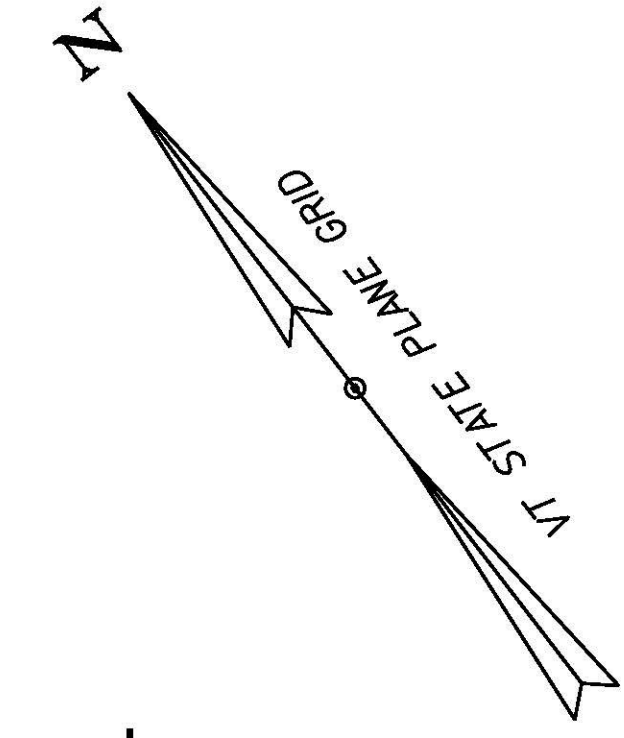
PLOT DATE: 11/23/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX

- DURABLE 4 INCH WHITE LINE, POLYUREA**
- A9 STA. 23+50.00, LT - STA. 28+75.00, LT (SOLID) (529')
  - A11 STA. 23+50.00, RT - STA. 28+75.00, RT (SOLID) (525')
  - A12 STA. 602+51.42, LT - STA. 601+65.97, LT (SOLID) (87')
  - A13 STA. 23+50.00, LT - STA. 26+01.95, LT (SOLID) (252')
  - A14 STA. 23+50.00, LT - STA. 26+01.95, LT (SOLID) (252')
  - A15 STA. 26+01.95, LT - STA. 27+81.13, LT (DASHED) (180')
  - A16 STA. 26+01.95, LT - STA. 27+81.13, LT (DASHED) (180')
- DURABLE 4 INCH YELLOW LINE, POLYUREA**
- B4 STA. 23+50.00, RT. - STA. 28+75.00, RT. (DOUBLE) (1577')
- DURABLE 8 INCH YELLOW LINE, POLYUREA**
- C2 STA. 26+11.96, RT. - STA. 28+75.00, RT. (DIAGONALS) (186')
- DURABLE 8 INCH WHITE LINE, POLYUREA**
- D2 STA. 23+50.00, LT. - STA. 24+35.99, LT. (GORE MARKINGS) (63')

**TRAFFIC SIGNS, TYPE A**  
SEE TRAFFIC SIGN SUMMARY SHEET

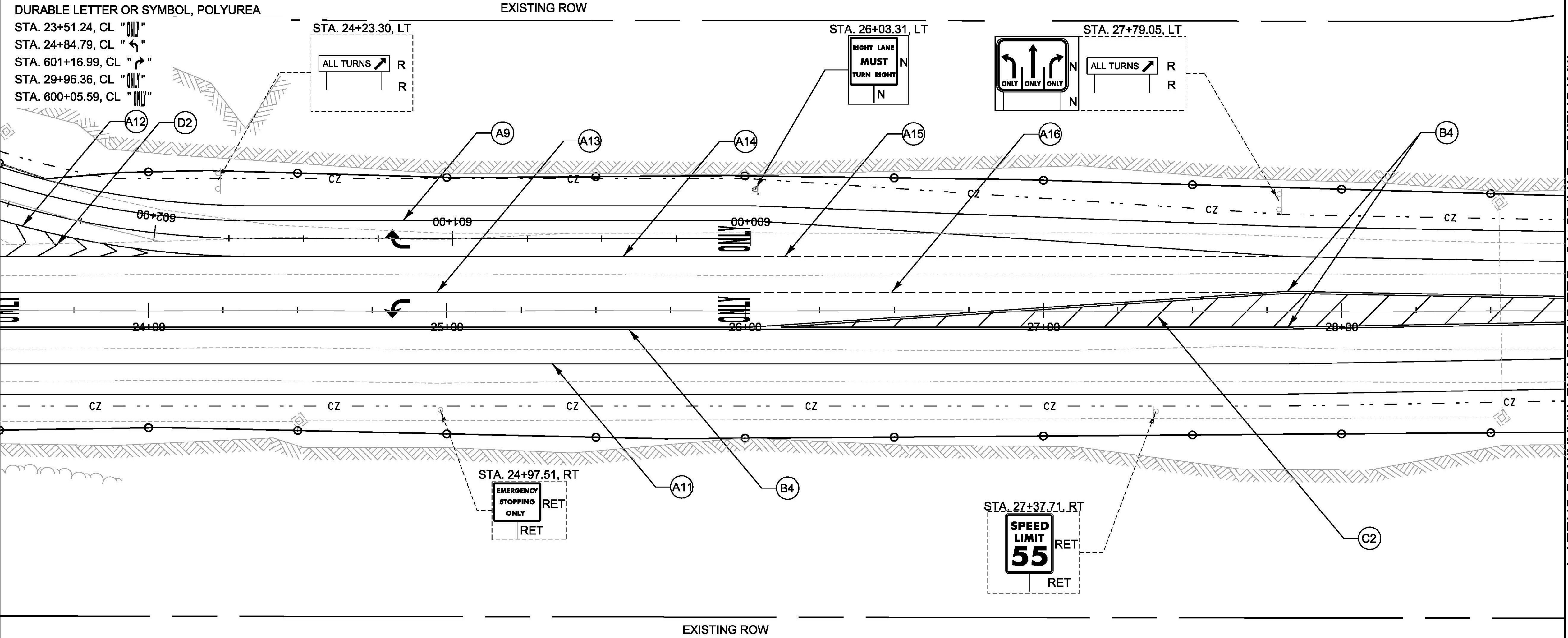
**SQUARE TUBE SIGN POST AND ANCHOR**  
SEE TRAFFIC SIGN SUMMARY SHEET

**REMOVING SIGNS**  
AS SHOWN - 2

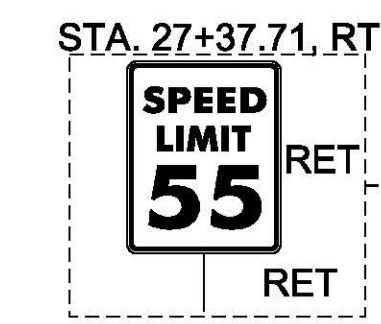
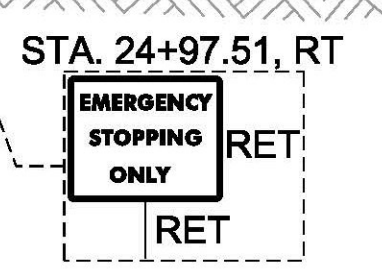
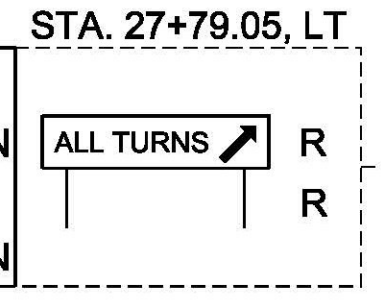
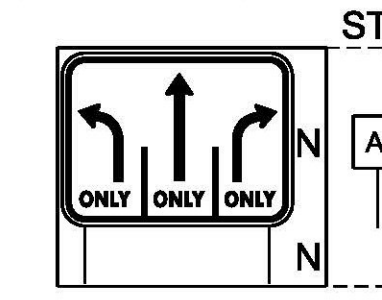
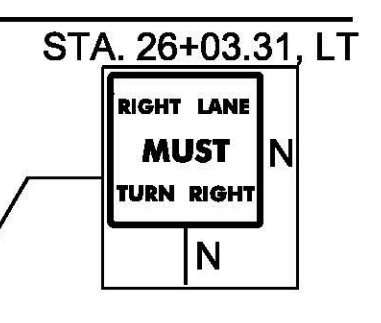
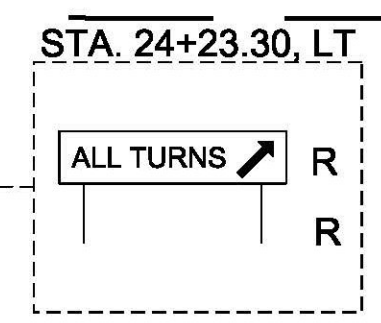


MATCHLINE - STA. 23+50 - SEE SIGNS AND MARKINGS SHEET 2

MATCHLINE - STA. 28+75 - SEE SIGNS AND MARKINGS SHEET 4

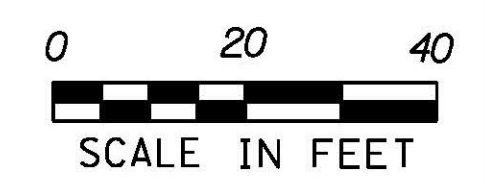


- DURABLE LETTER OR SYMBOL, POLYUREA**
- STA. 23+51.24, CL "ONLY"
  - STA. 24+84.79, CL "←"
  - STA. 601+16.99, CL "↗"
  - STA. 29+96.36, CL "ONLY"
  - STA. 600+05.59, CL "ONLY"



**SIGN LEGEND**

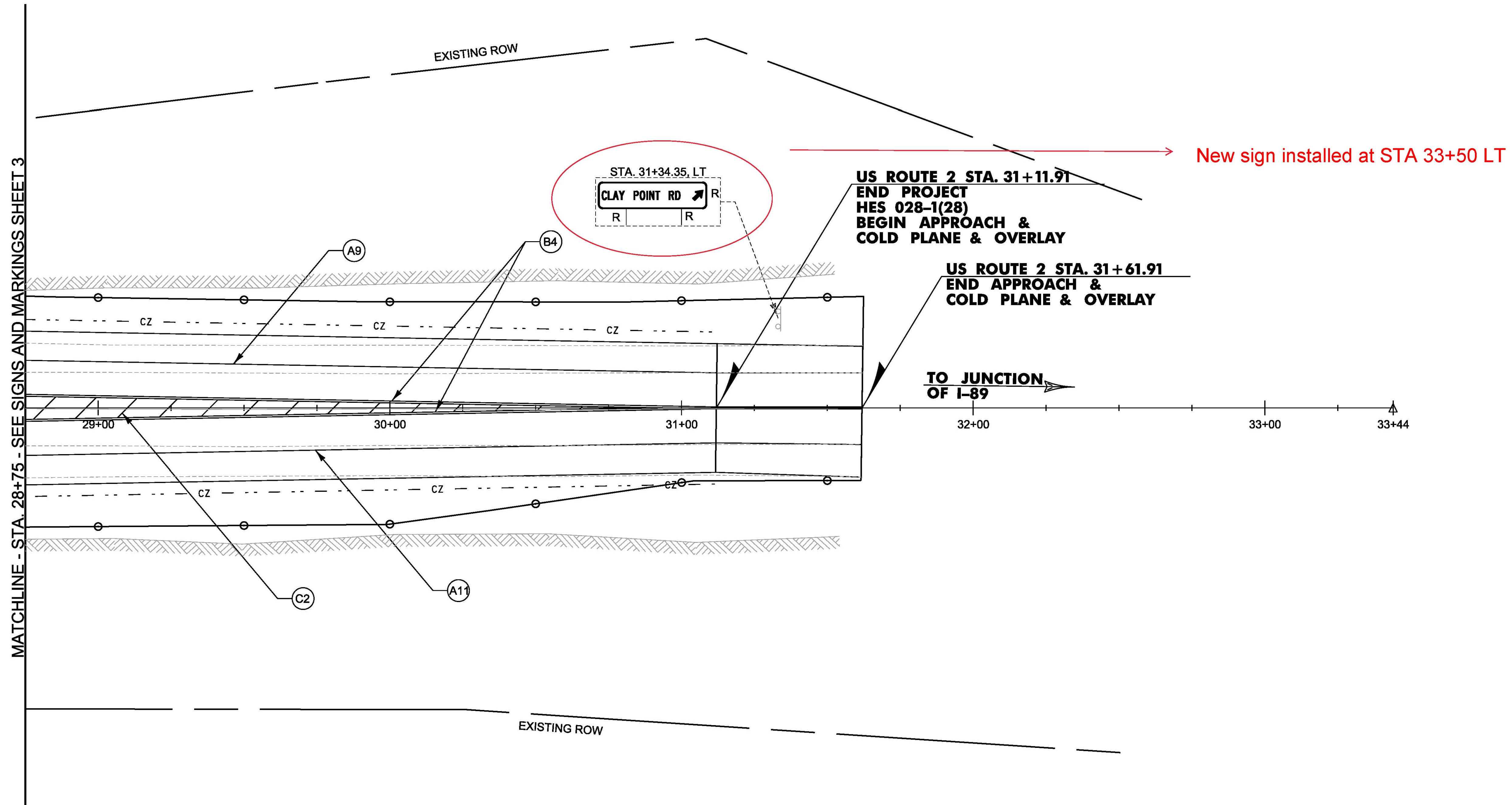
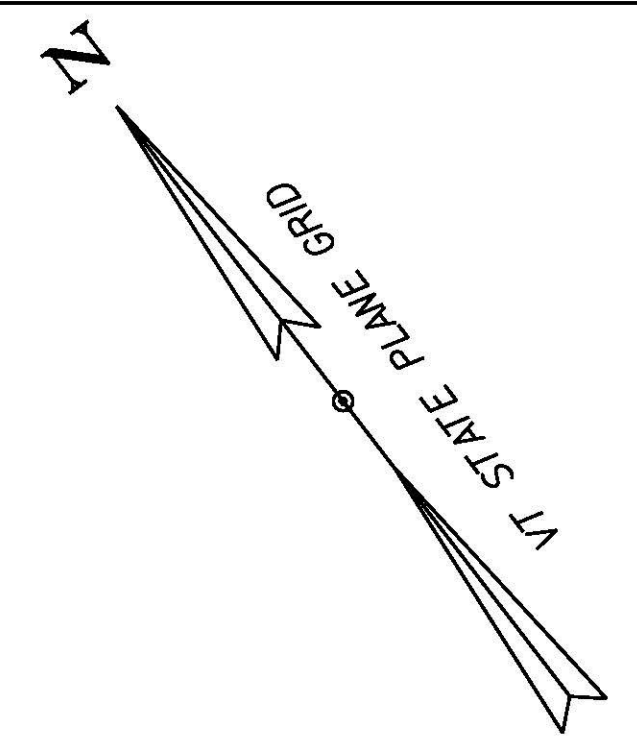
- R = Remove
- S = Salvage
- N = New
- RET = Retain
- T&T = Thinning & Trimming
- B-B = Back to Back
- Existing - - - - -
- NEW - - - - -



PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028+sl.dgn	PLOT DATE: 11/23/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
TRAFFIC SIGN & PAVEMENT MARKING SHEET 3 SHEET 59 OF 91	

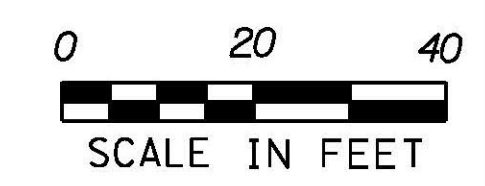
- DURABLE 4 INCH WHITE LINE, POLYUREA  
 (A9) STA. 28+75.00, LT - STA. 31+61.91, LT (SOLID) (287')  
 (A11) STA. 28+75.00, RT - STA. 31+61.91, RT (SOLID) (287')
- DURABLE 4 INCH YELLOW LINE, POLYUREA  
 (B4) STA. 28+75.00, RT. - STA. 31+61.91, CL. (DOUBLE) (1011')
- DURABLE 8 INCH YELLOW LINE, POLYUREA  
 (C2) STA. 28+75.00, CL. - STA. 30+93.62, RT. (DIAGONALS) (87')

- TRAFFIC SIGNS, TYPE A  
 SEE TRAFFIC SIGN SUMMARY SHEET
- SQUARE TUBE SIGN POST AND ANCHOR  
 SEE TRAFFIC SIGN SUMMARY SHEET
- REMOVING SIGNS  
 AS SHOWN - 1



**SIGN LEGEND**

R	= Remove
S	= Salvage
N	= New
RET	= Retain
T&T	= Thinning & Trimming
B-B	= Back to Back
Existing	-----
NEW	_____



PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028+sl.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
TRAFFIC SIGN & PAVEMENT MARKING SHEET	4 SHEET 60 OF 91
PLOT DATE:	11/23/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX

DURABLE 4 INCH WHITE LINE, POLYUREA

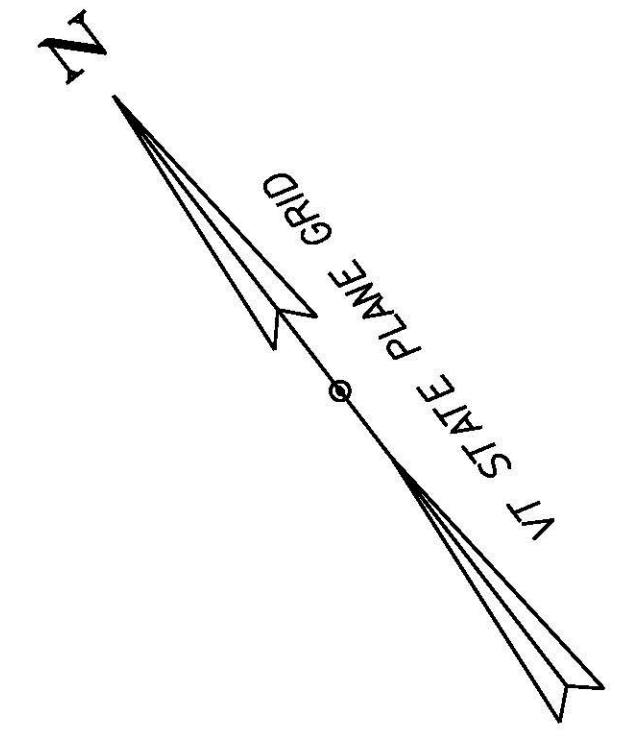
- (A1) STA. 304+50.00, LT. - STA. 305+74.68, LT. (SOLID) (125')
- (A2) STA. 300+00.00, LT. - STA. 301+25.00, LT. (SOLID) (125')
- (A9) STA. 304+50.00, RT. - STA. 305+74.68, RT. (SOLID) (125')
- (A11) STA. 300+00.00, RT. - STA. 301+25.00, RT. (SOLID) (125')

DURABLE 4 INCH YELLOW LINE, POLYUREA

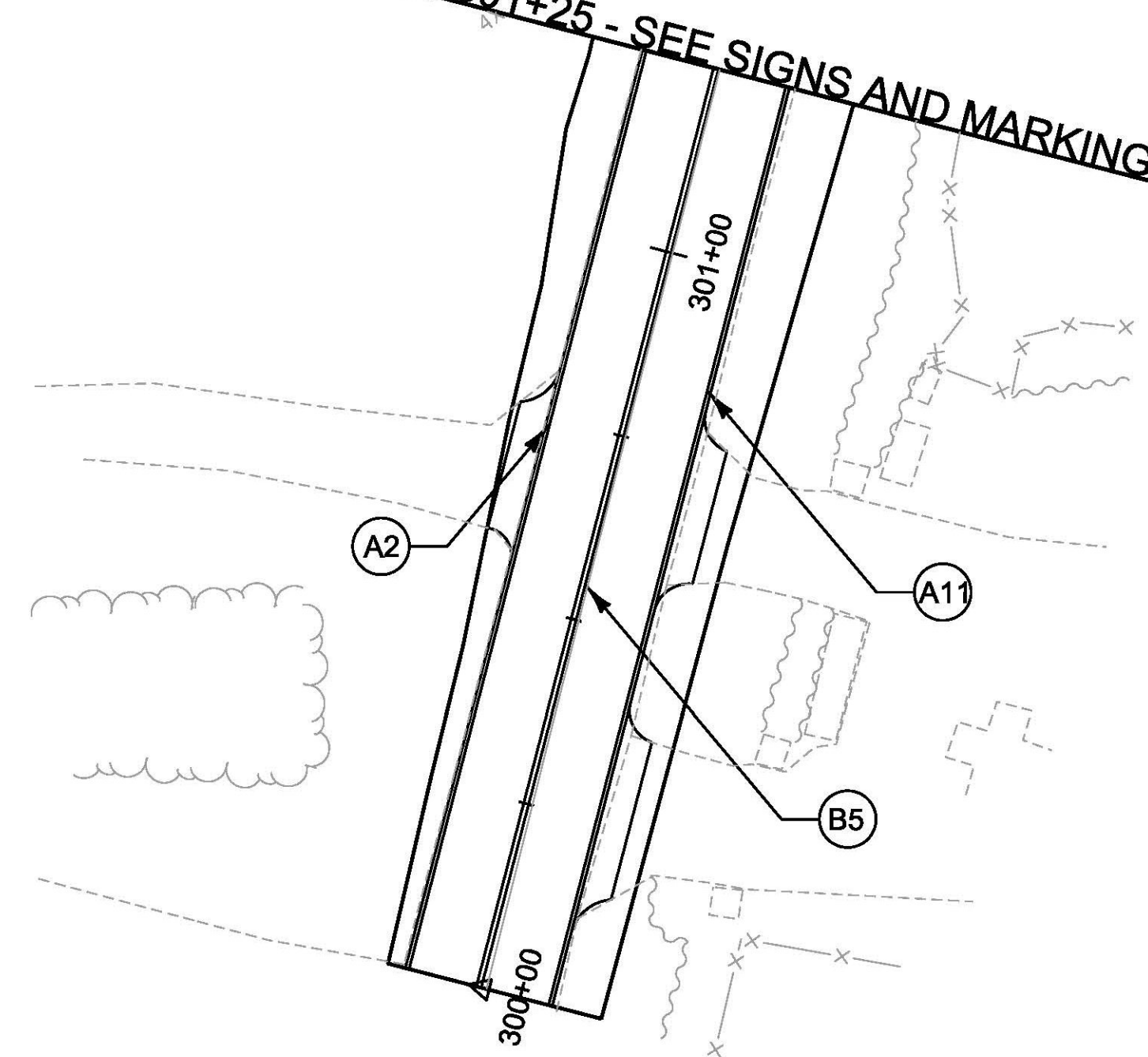
- (B5) STA. 300+00.00, CL. - STA. 301+25.00, CL. (DOUBLE) (250')
- (B8) STA. 304+50.00, CL. - STA. 305+74.68, CL. (DOUBLE) (250')

TRAFFIC SIGNS, TYPE A  
SEE TRAFFIC SIGN SUMMARY SHEET

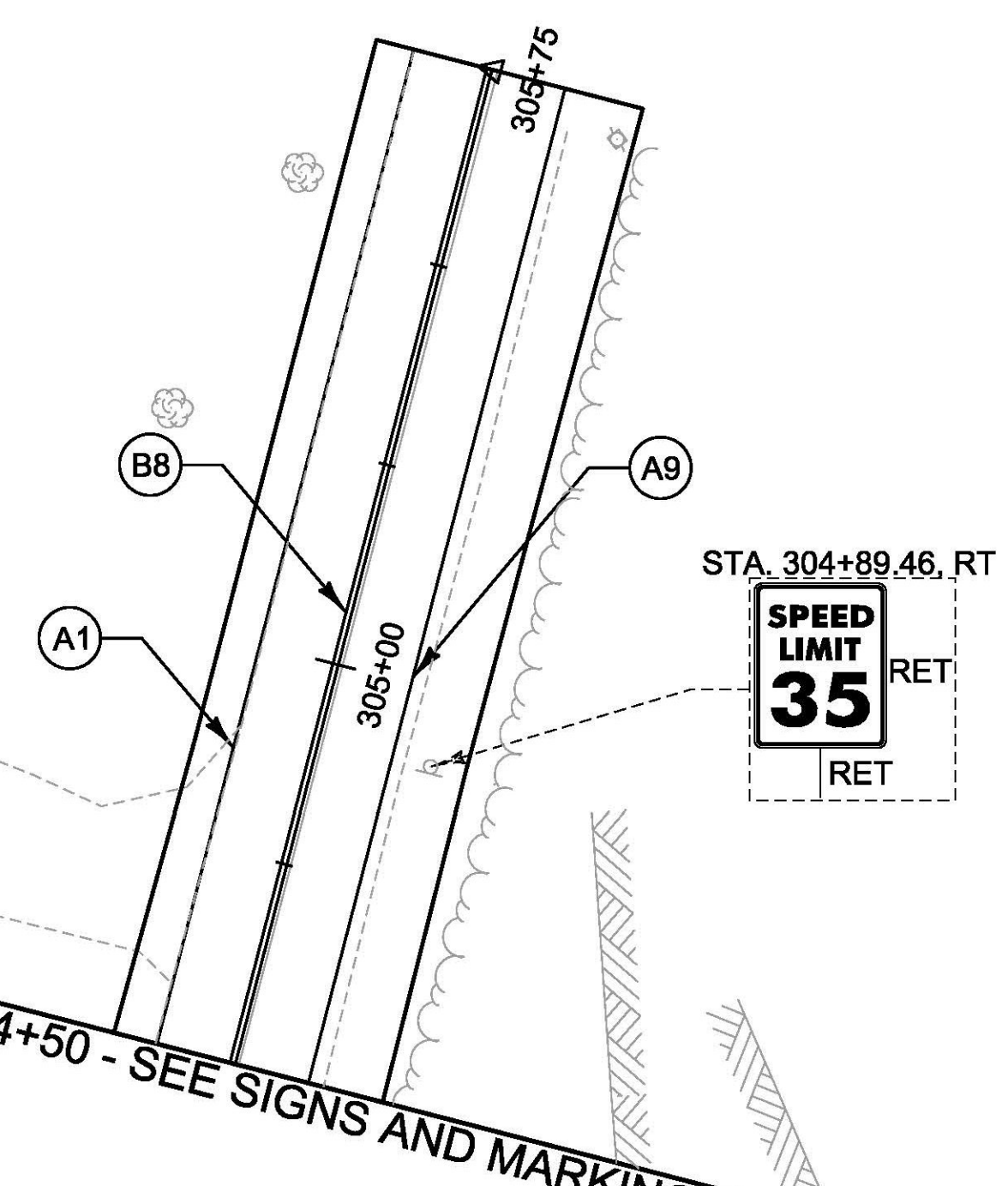
SQUARE TUBE SIGN POST AND ANCHOR  
SEE TRAFFIC SIGN SUMMARY SHEET



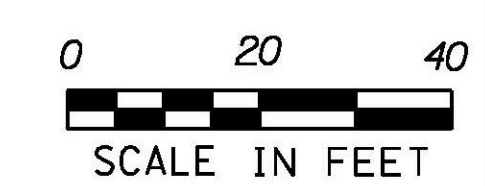
MATCHLINE - STA. 301+25 - SEE SIGNS AND MARKINGS SHEET 2



MATCHLINE - STA. 304+50 - SEE SIGNS AND MARKINGS SHEET 2

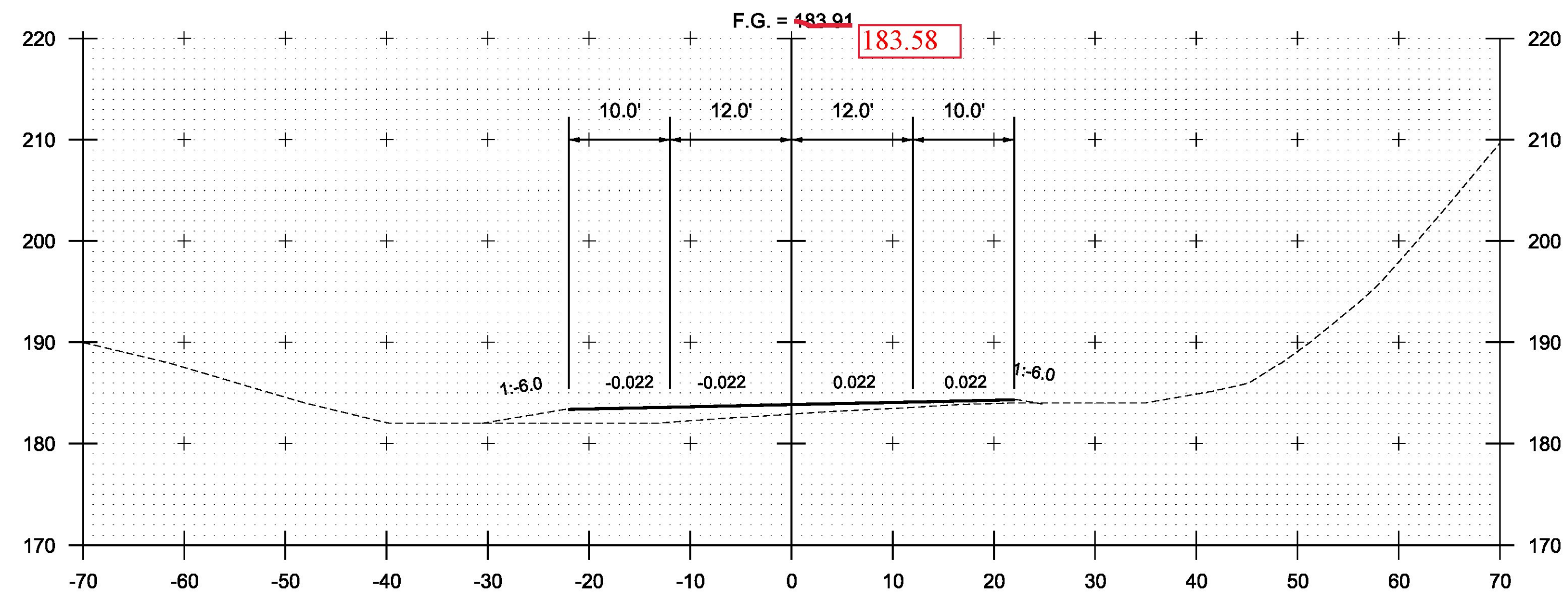


SIGN LEGEND	
R	= Remove
S	= Salvage
N	= New
RET	= Retain
T&T	= Thinning & Trimming
B-B	= Back to Back
Existing	-----
NEW	_____

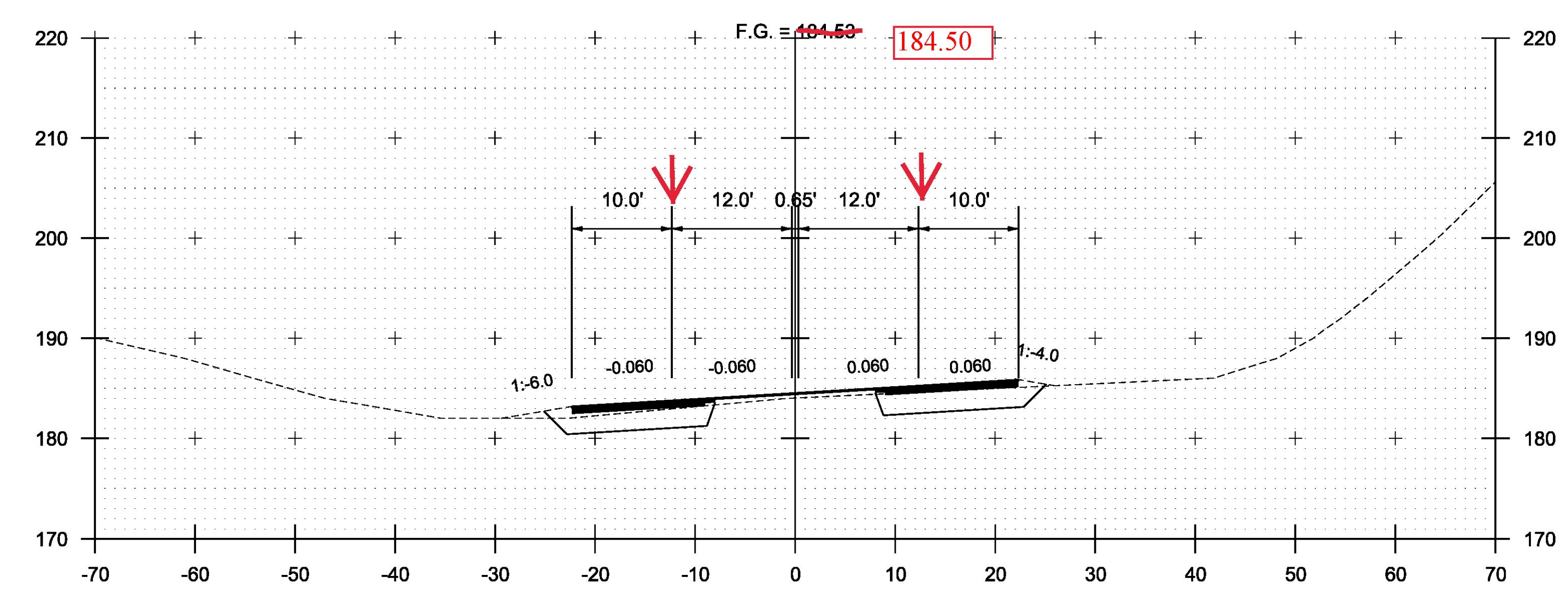


PROJECT NAME: COLCHESTER	PLOT DATE: 11/23/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+sl.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	TRAFFIC SIGN & PAVEMENT MARKING SHEET 5 SHEET 61 OF 91
DESIGNED BY: M. BOGACZYK	





12+50

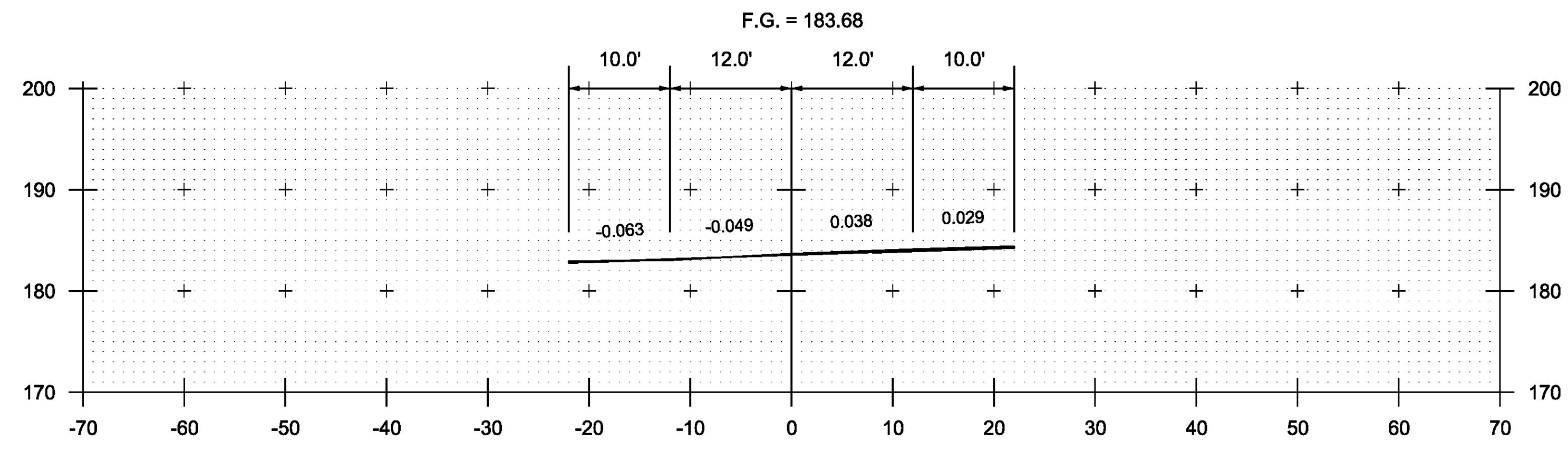


13+00

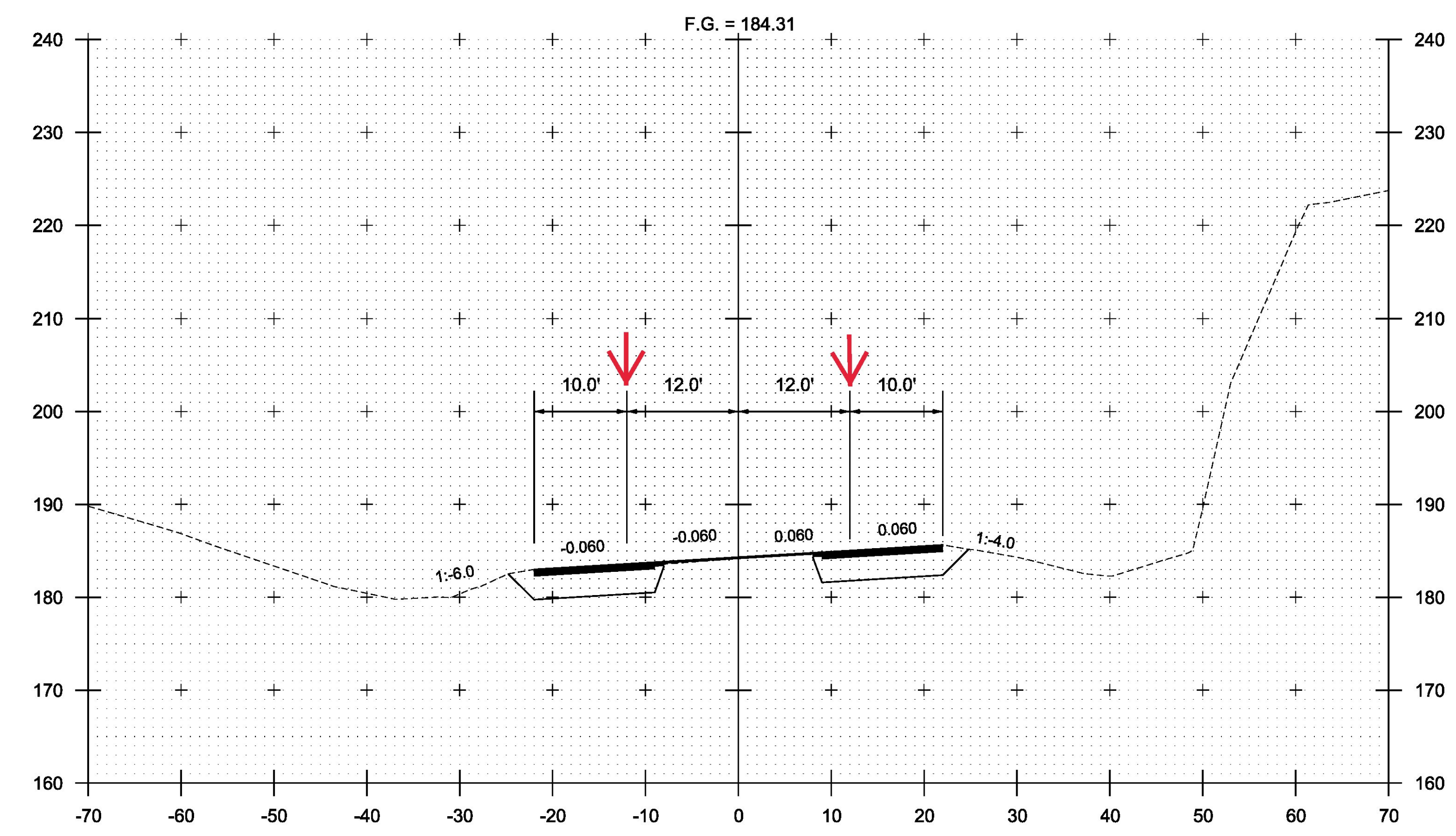
THE LIMITS OF THE BOX CUT EXCAVATIONS AND BACKFILL OF SELECT MATERIALS WAS FROM THE SHOULDER DAY LIGHT AS SHOWN ON THE PLANS TO THE WHITE LINE OF THE TRAVEL EDGE AS SHOWN WITH THE ARROWS. THAT IS, THERE WAS NO EXCAVATION INTO THE TRAVEL LANES SINCE THE EXISTING MATERIALS WERE SUITABLE.

**US ROUTE 2 STA. 12+82.04  
BEGIN PROJECT COLCHESTER HES 028-1(28)  
END APPROACH COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+32.04  
BEGIN APPROACH &  
COLD PLANE & OVERLAY**



12+32.04

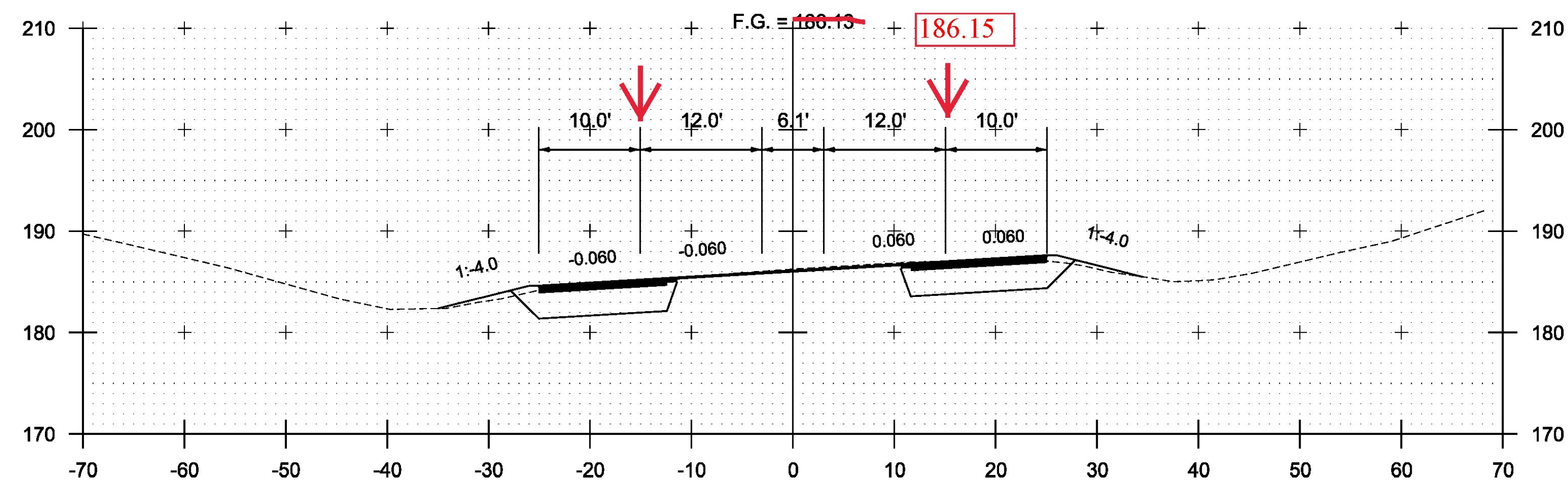


12+82.04

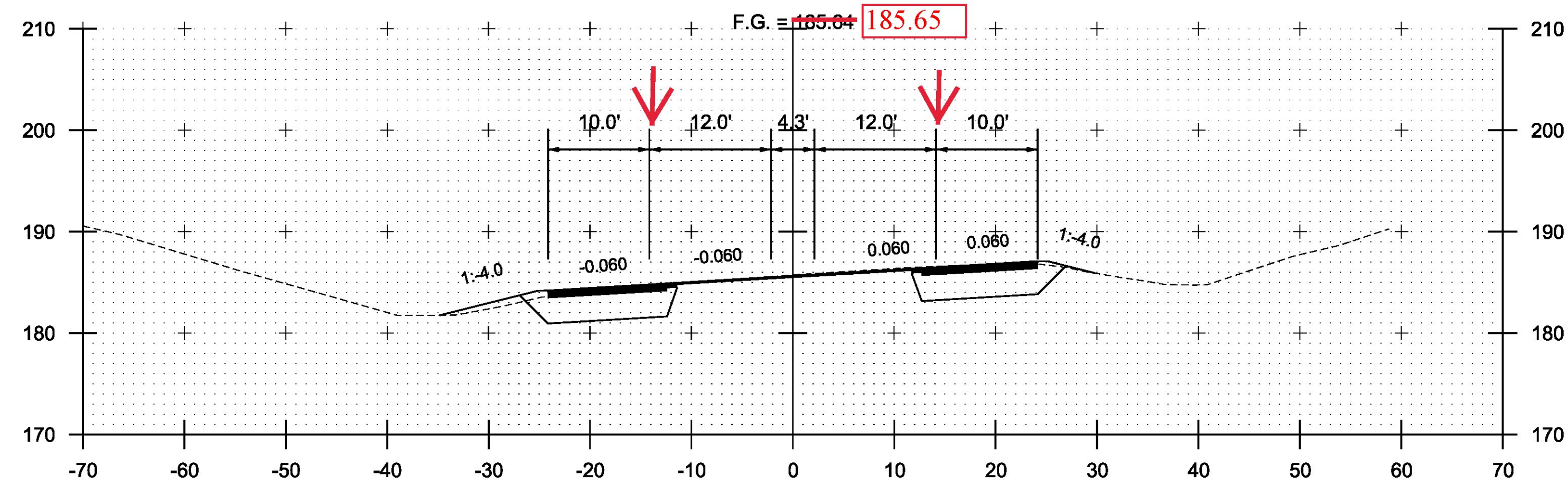


STA. 12+32.04 TO STA. 13+00

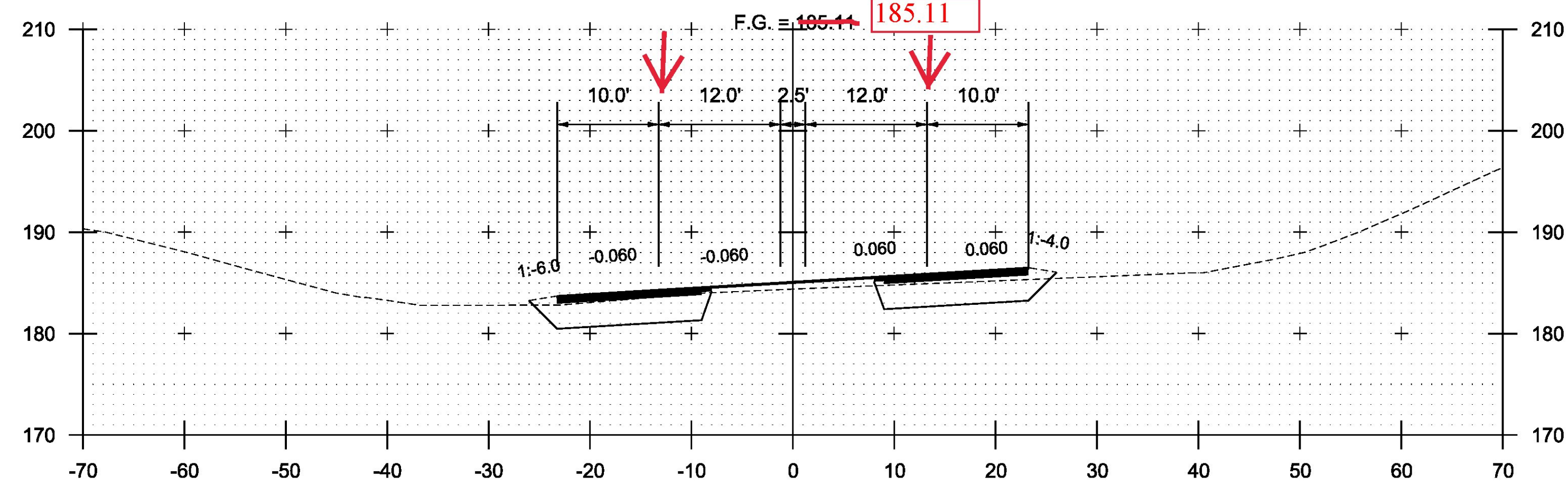
PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 1	SHEET 63 OF 91



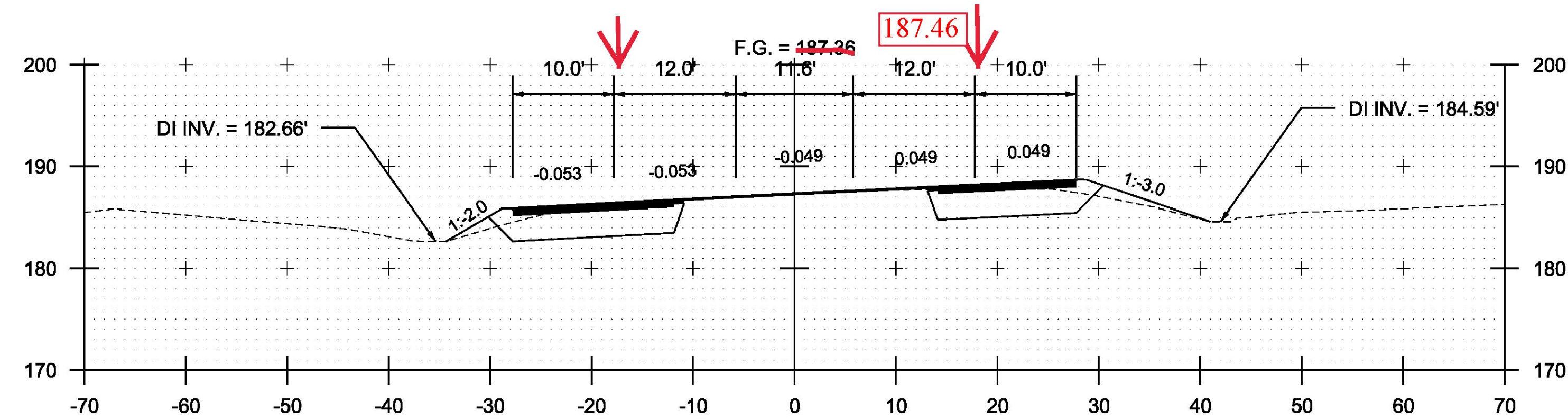
14+50



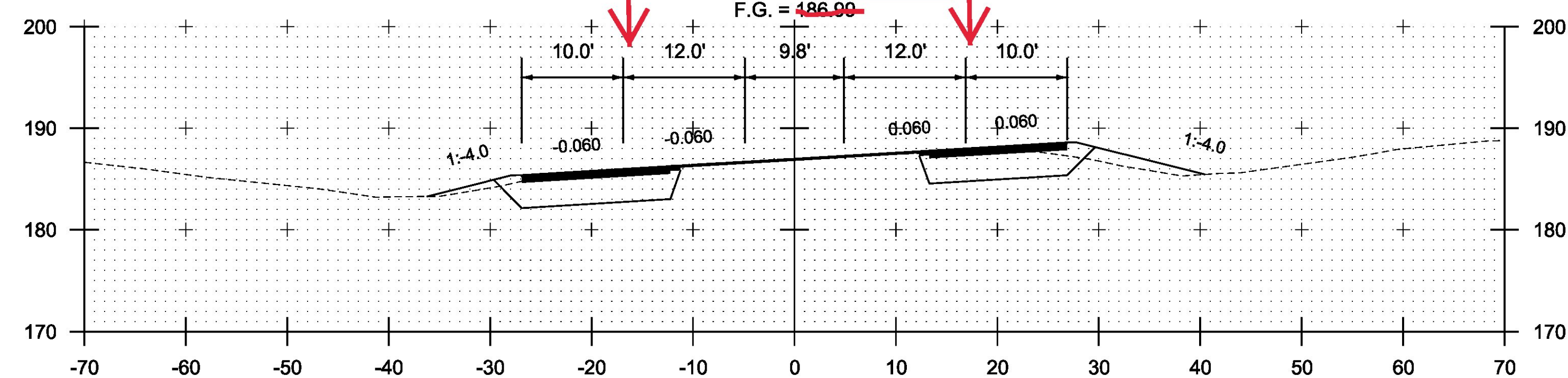
14+00



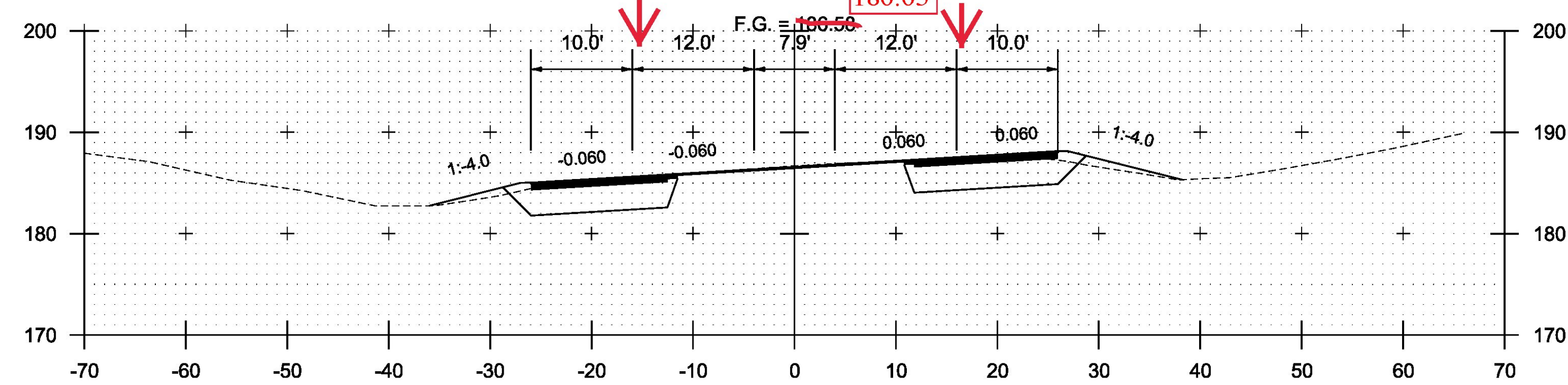
13+50



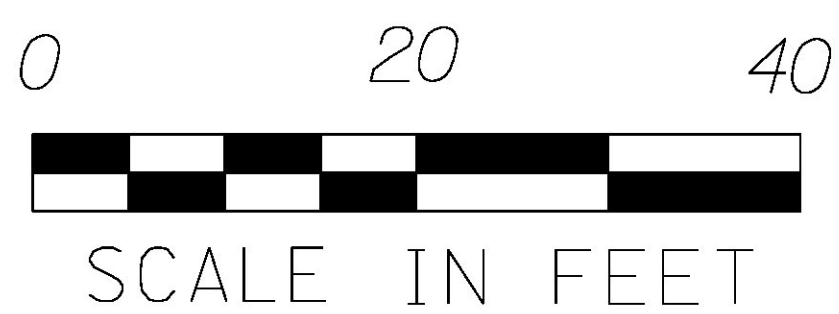
16+00



15+50

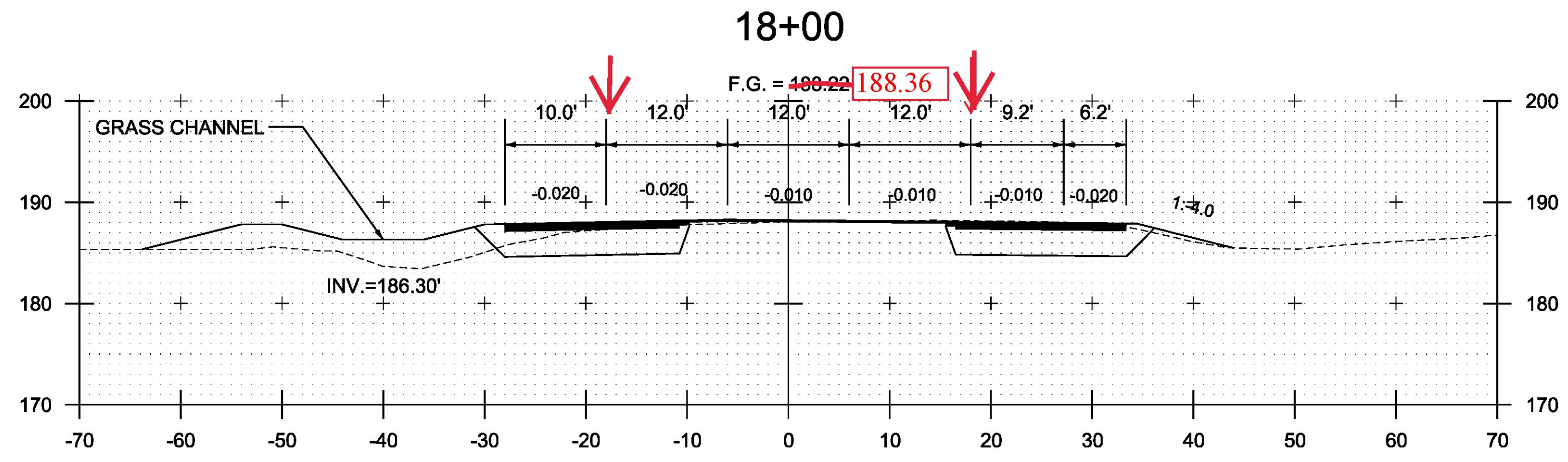
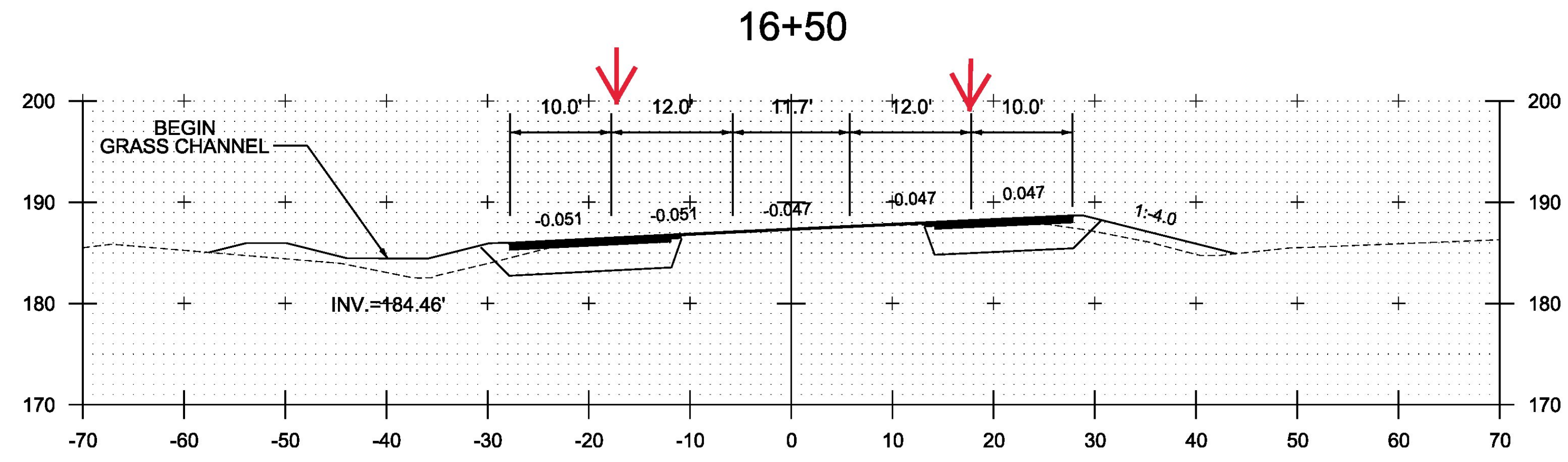
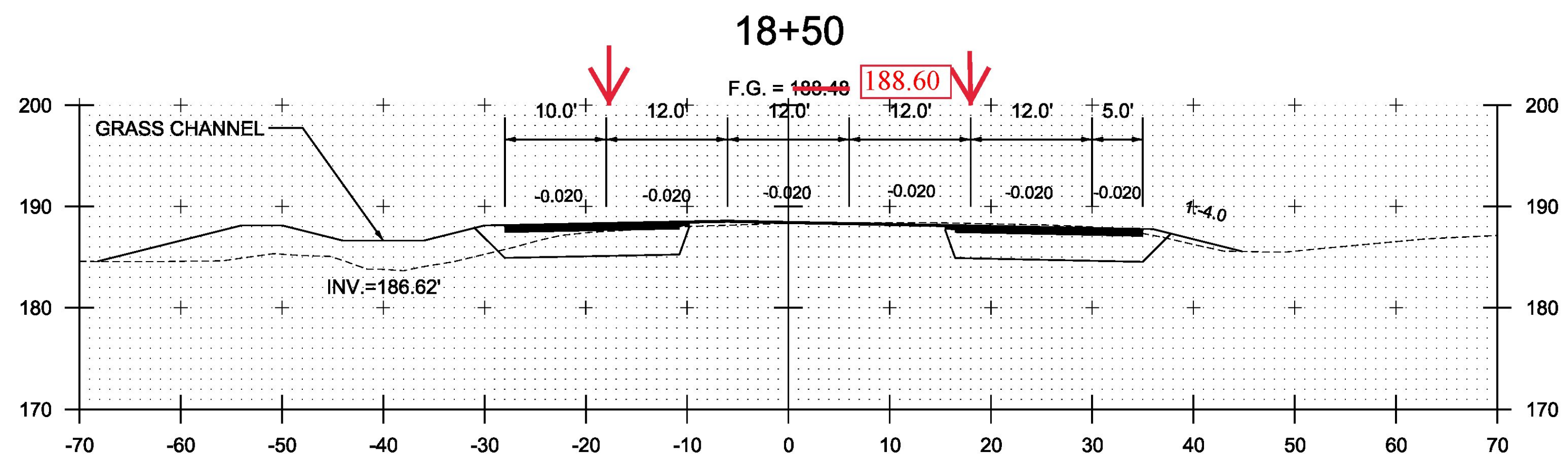
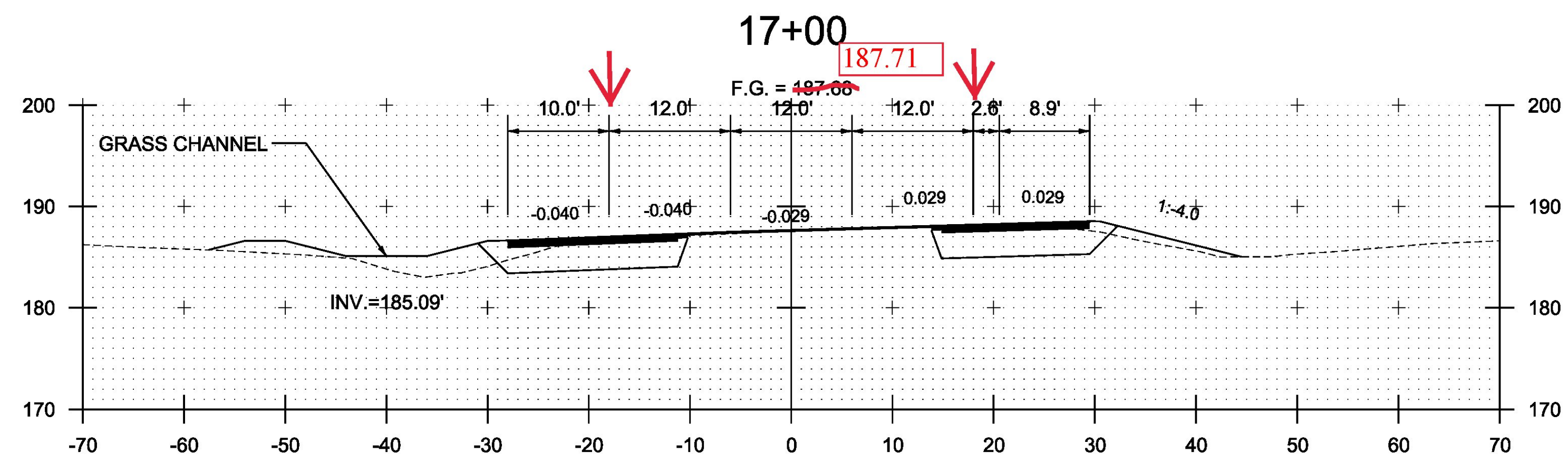
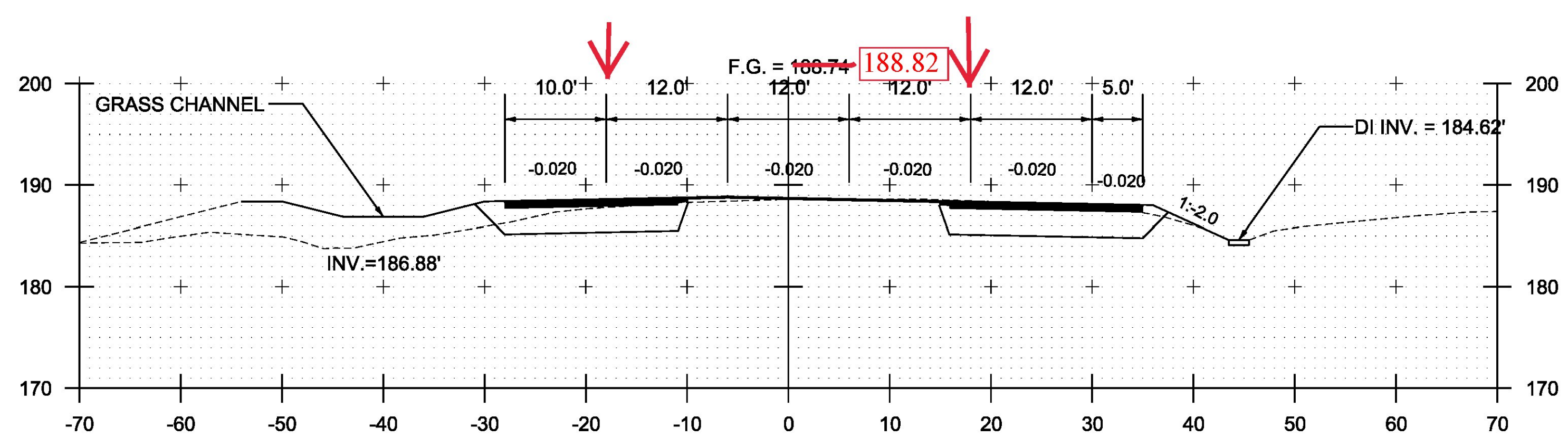
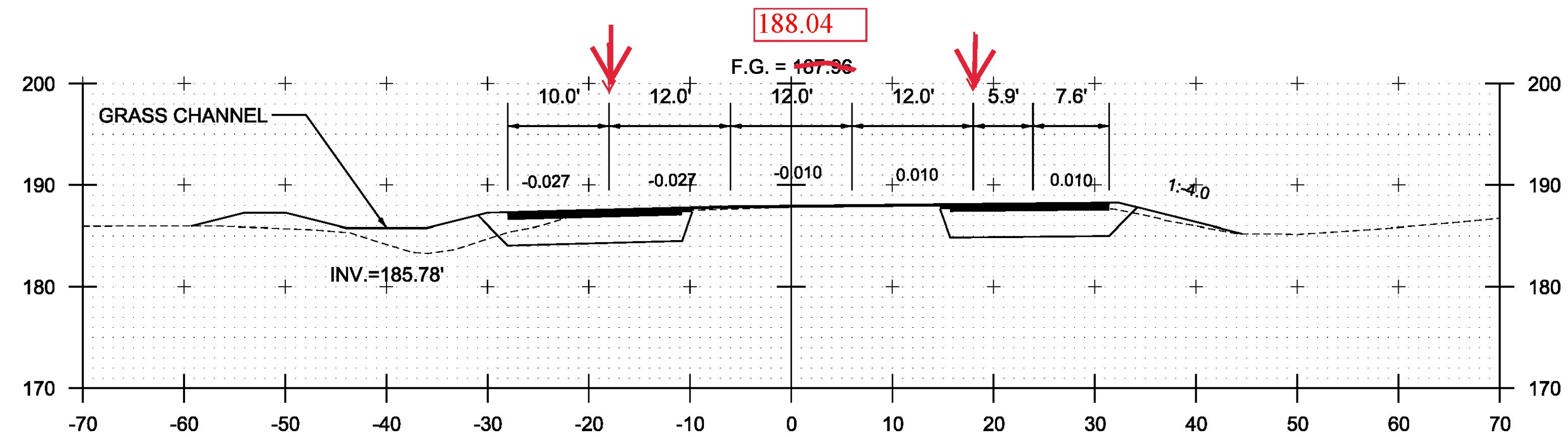


15+00



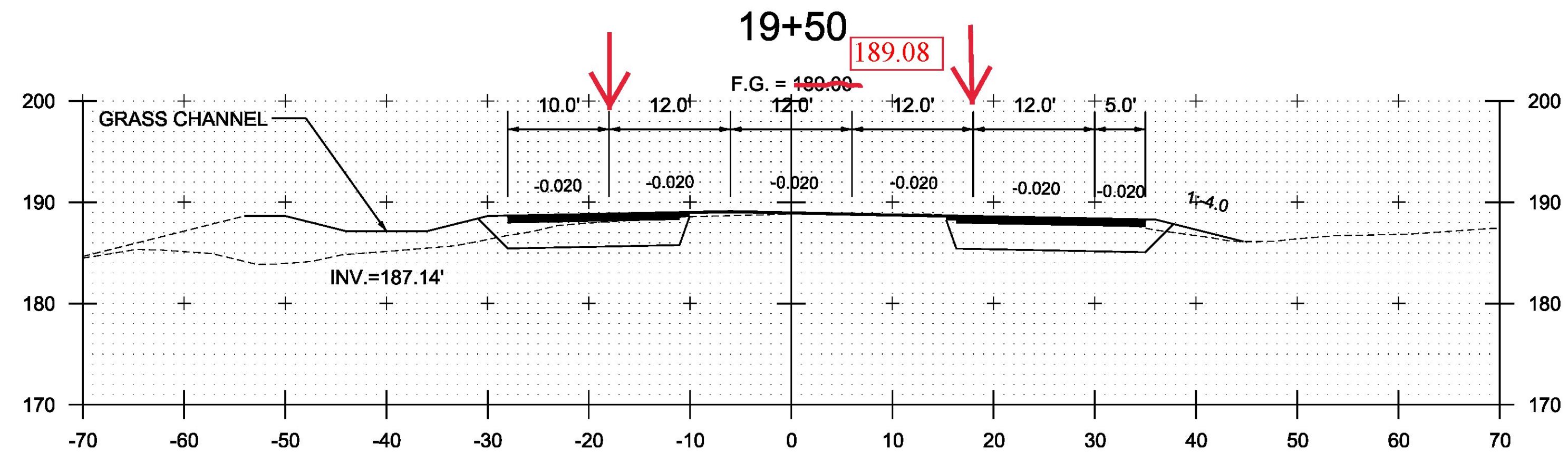
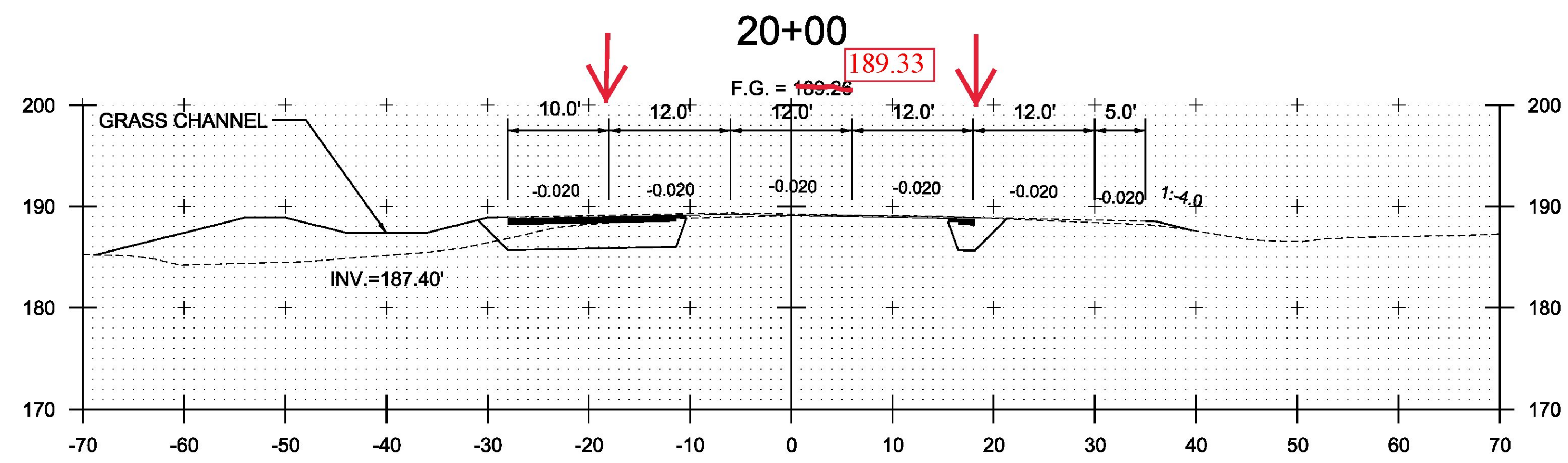
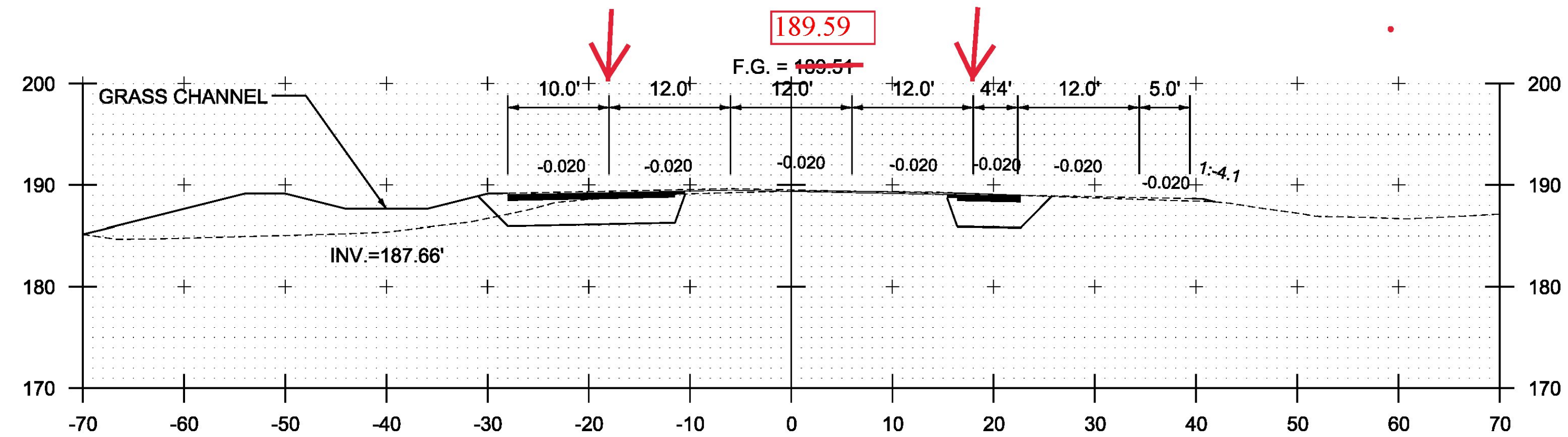
STA. 13+50 TO STA. 16+00

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: i3b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 2	SHEET 6 OF 9

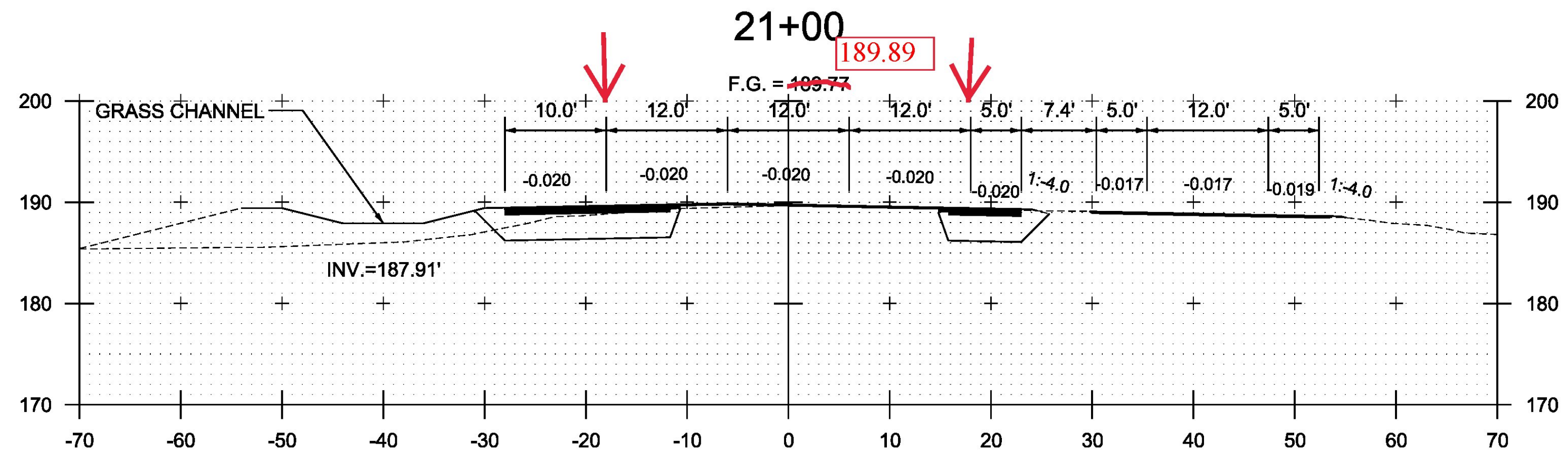
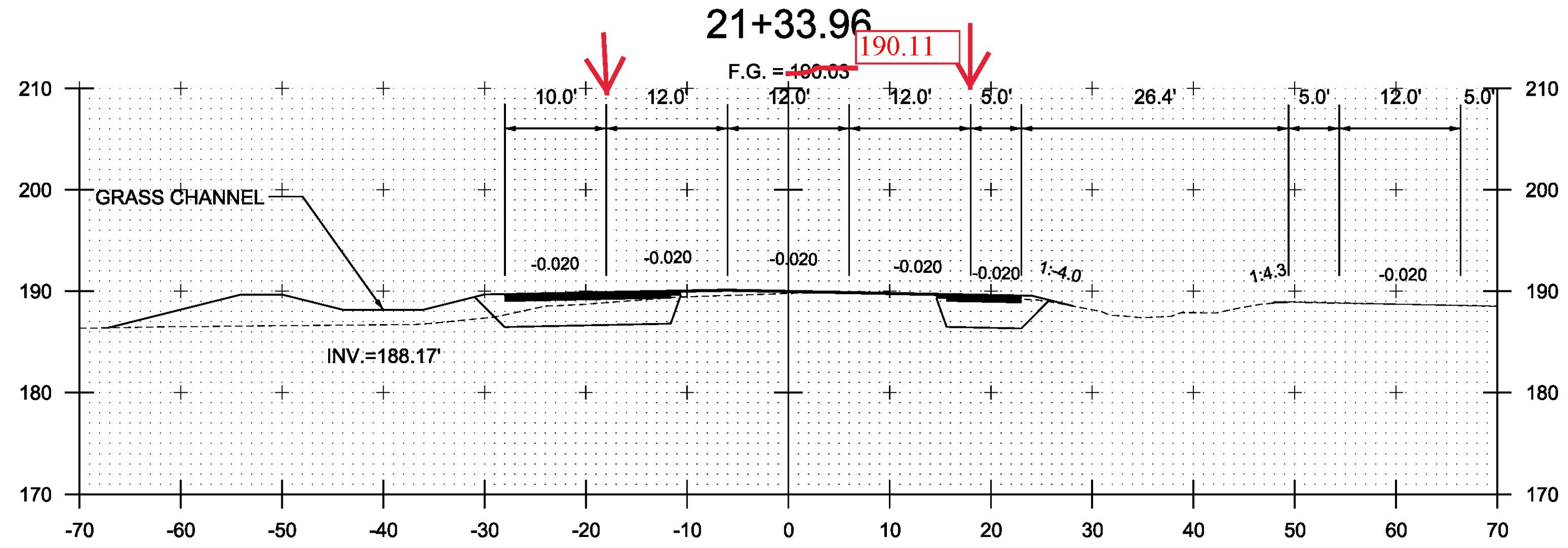
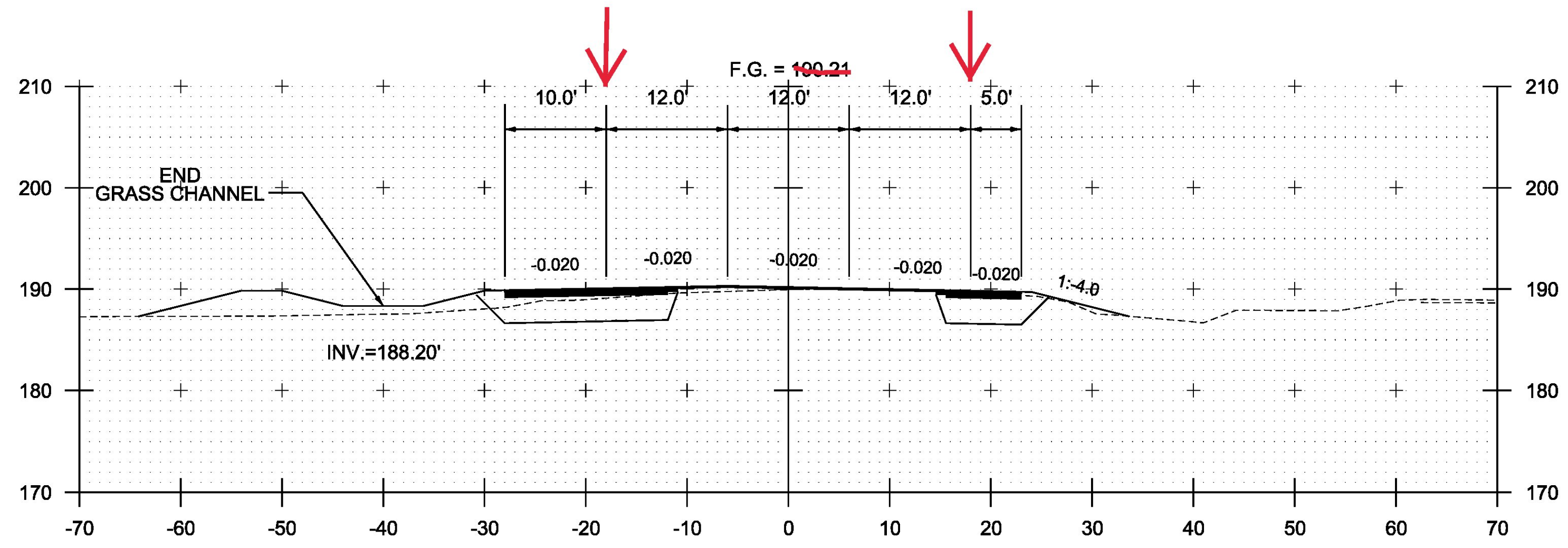


STA. 16+05 TO STA. 18+50

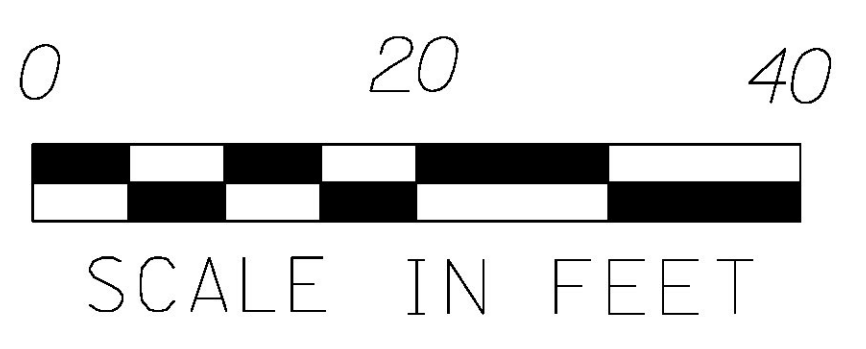
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-1(28)
FILE NAME:	t13b028xsl.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
CROSS SECTION SHEET 3	
PLOT DATE:	12/7/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
SHEET	65 OF 91



19+00

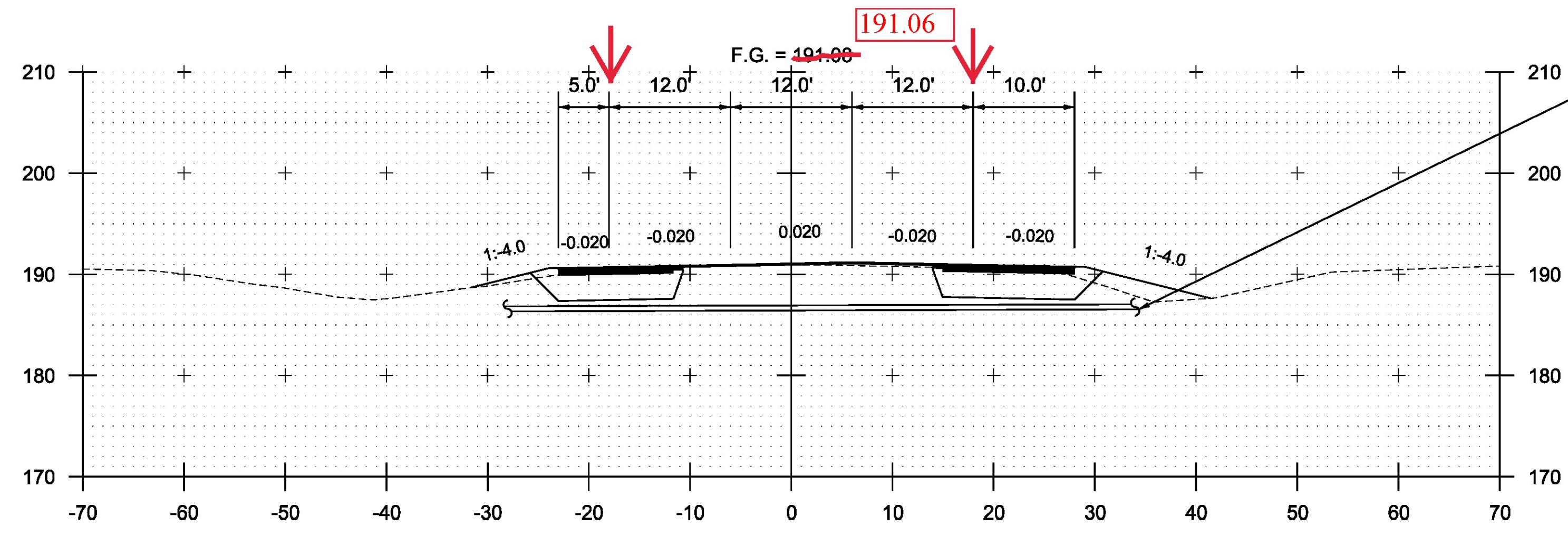


20+50

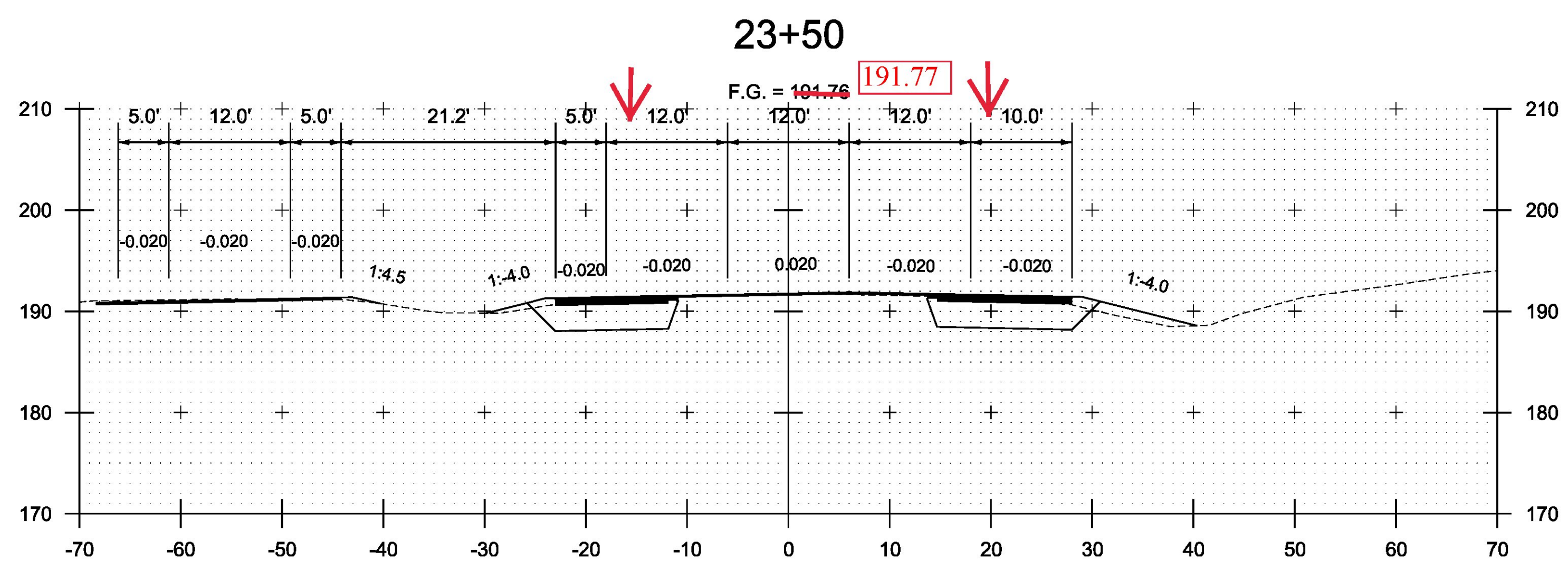
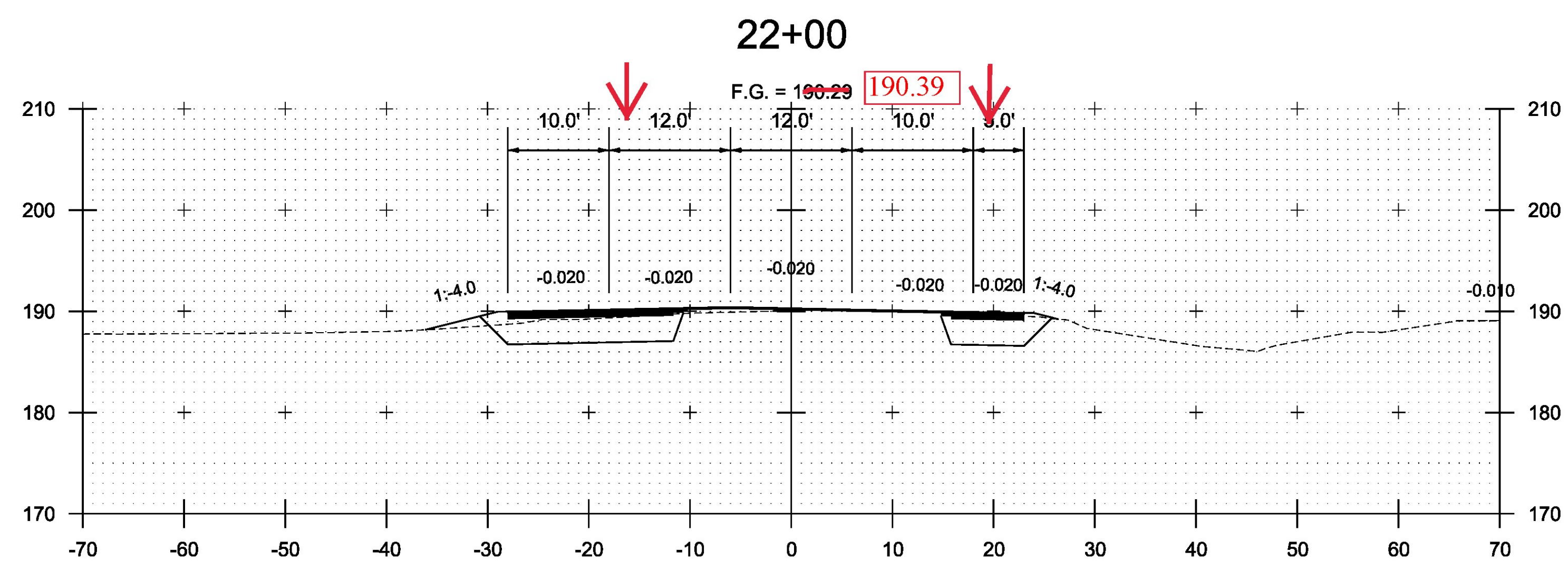
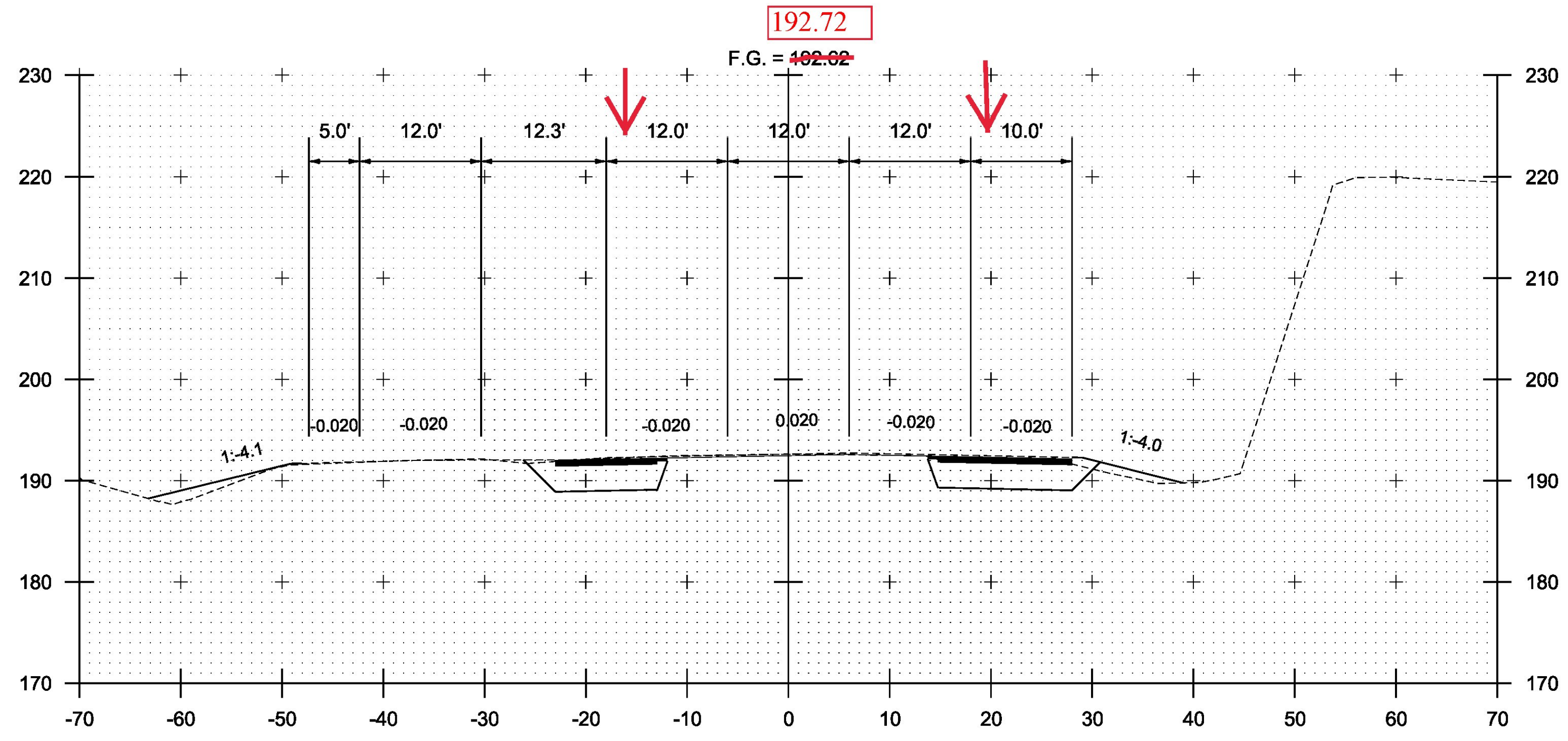
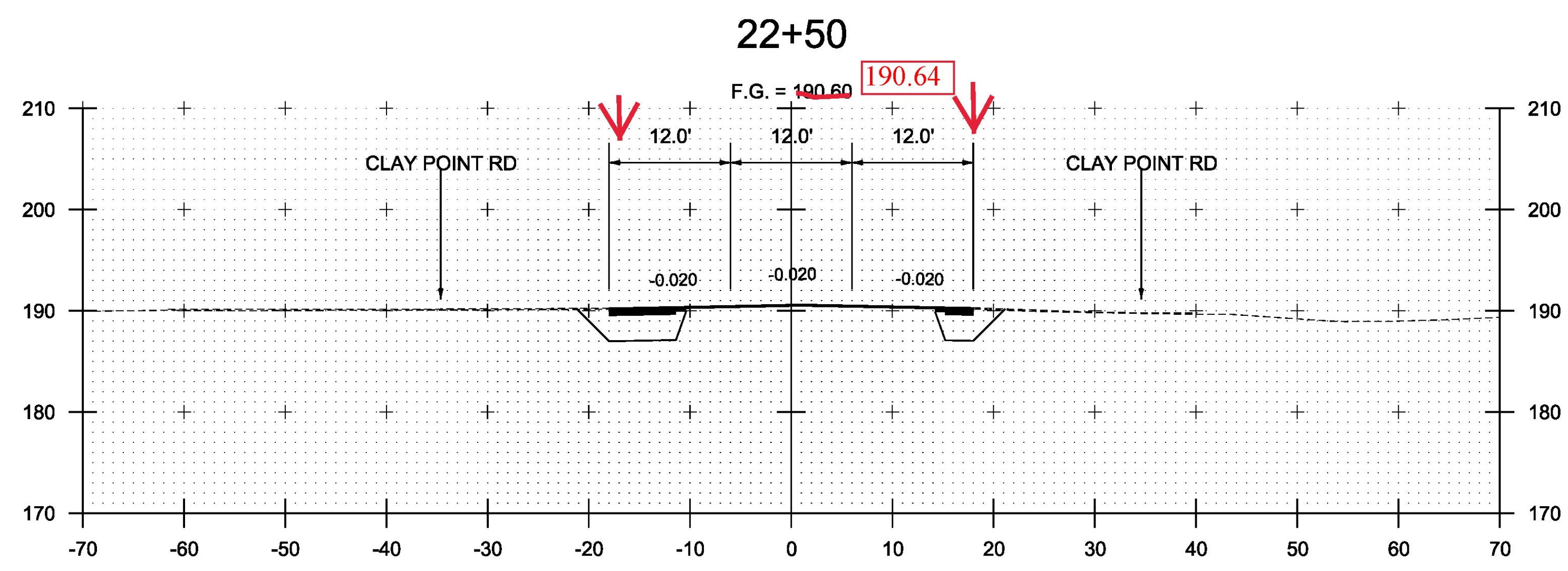


STA. 19+00 TO STA. 21+34

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 4	SHEET 66 OF 91



NOTE: APPROXIMATE LOCATION OF UNDERGROUND UTILITY. THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID IMPACT TO UNDERGROUND UTILITY LINE DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER TO ESTABLISH THE EXACT LOCATION AND DEPTH. SEE UTILITY SPECIAL PROVISIONS FOR CONTACT INFORMATION.



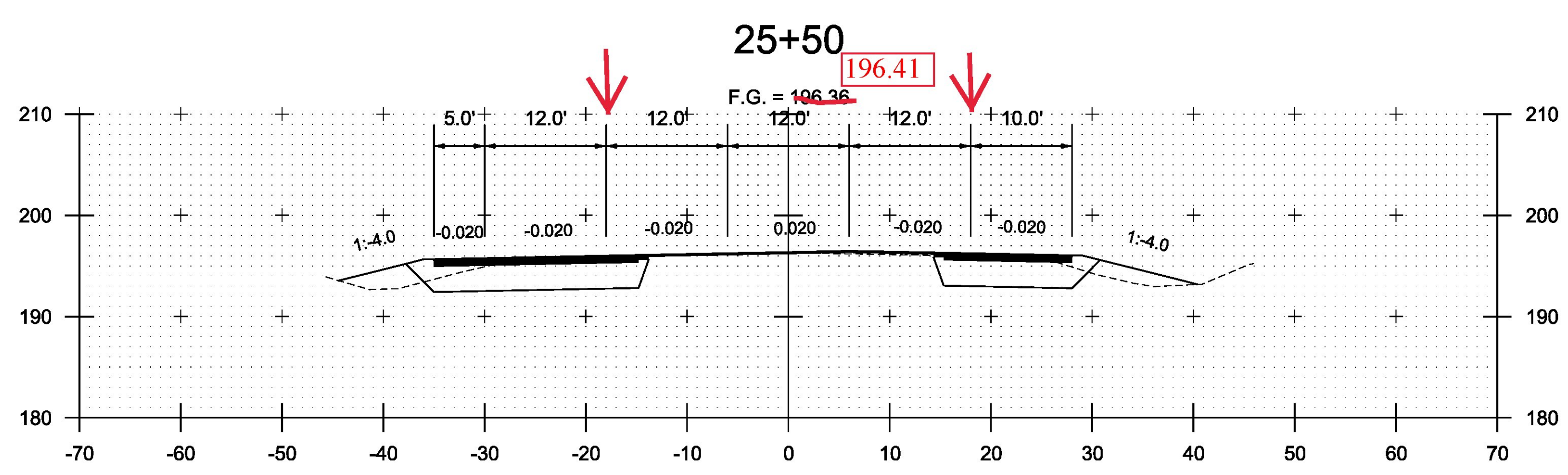
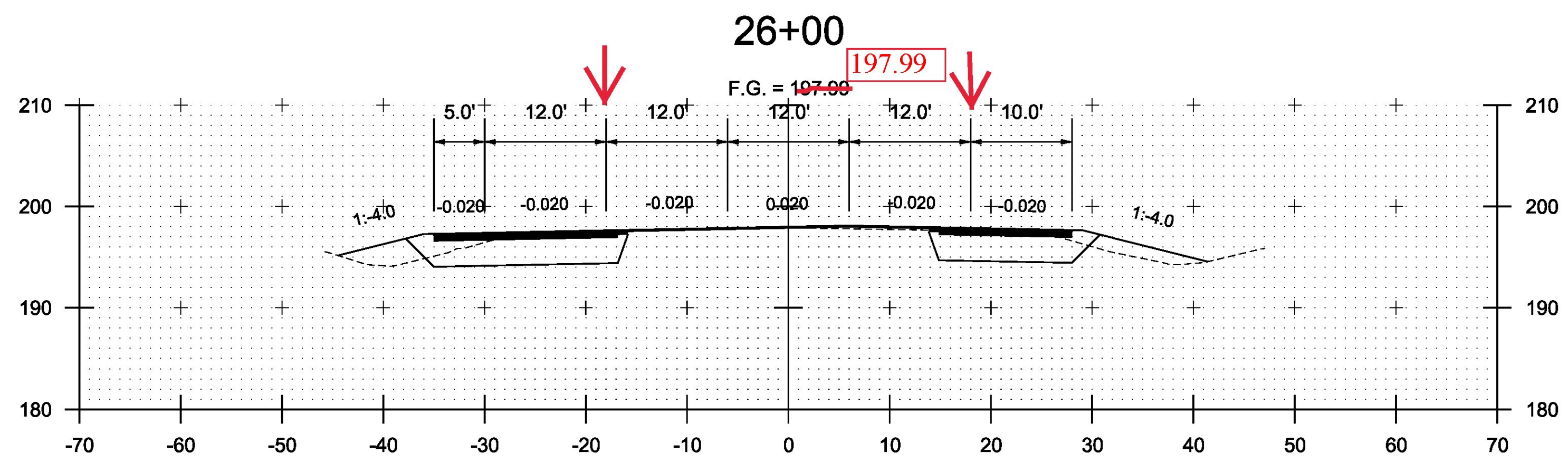
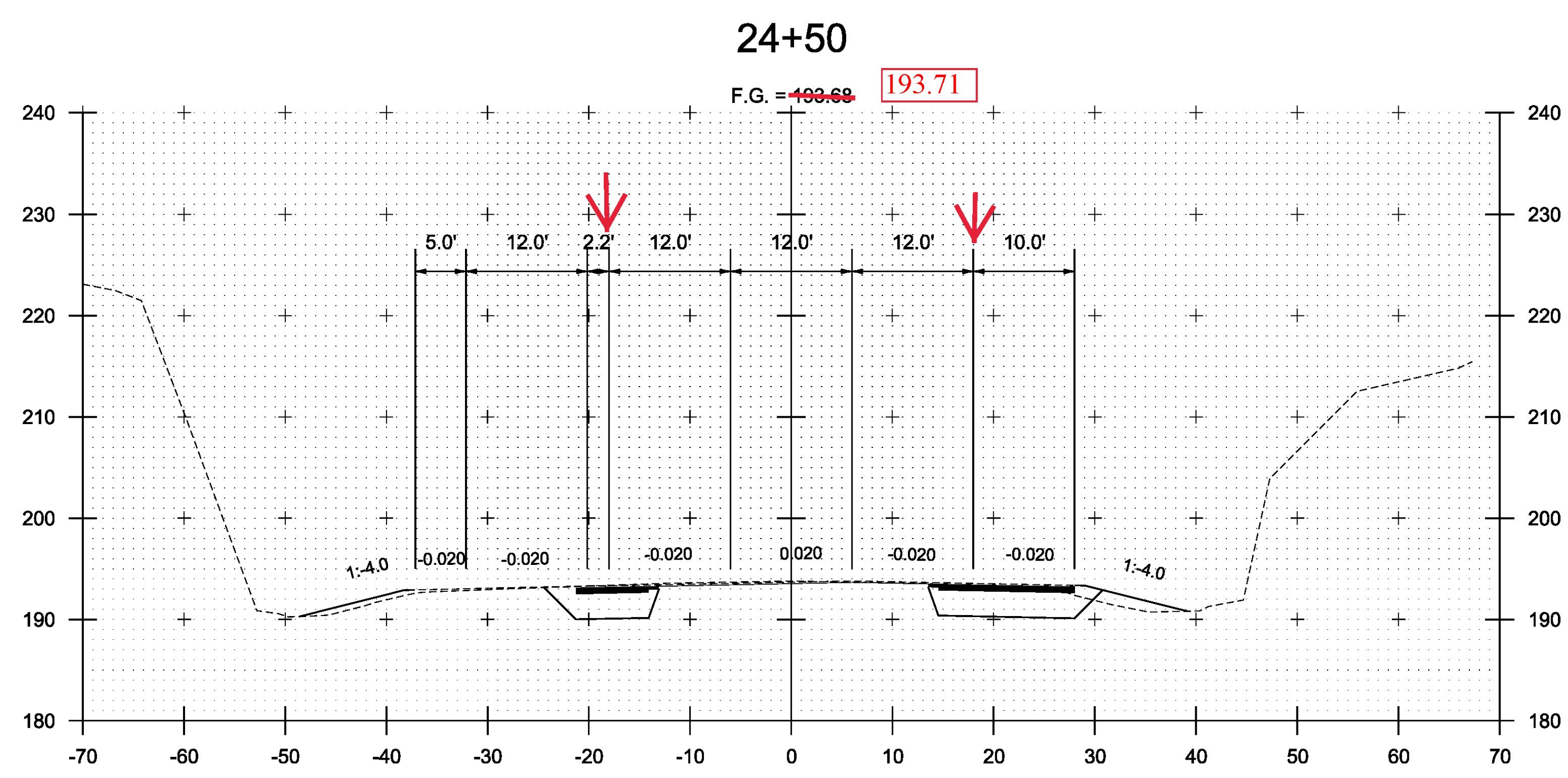
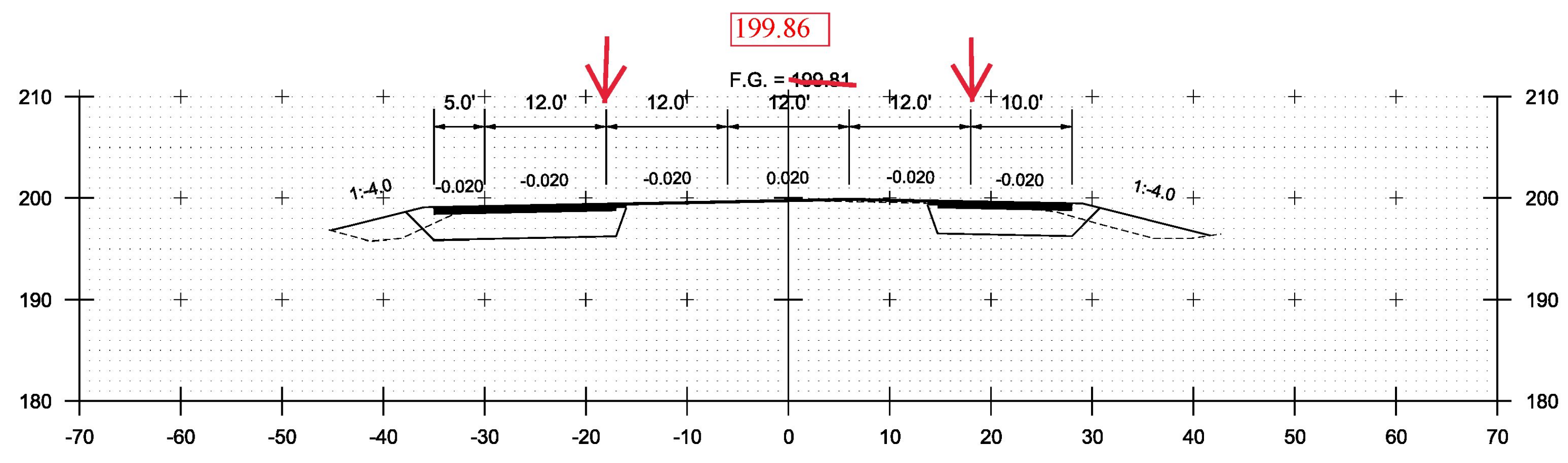
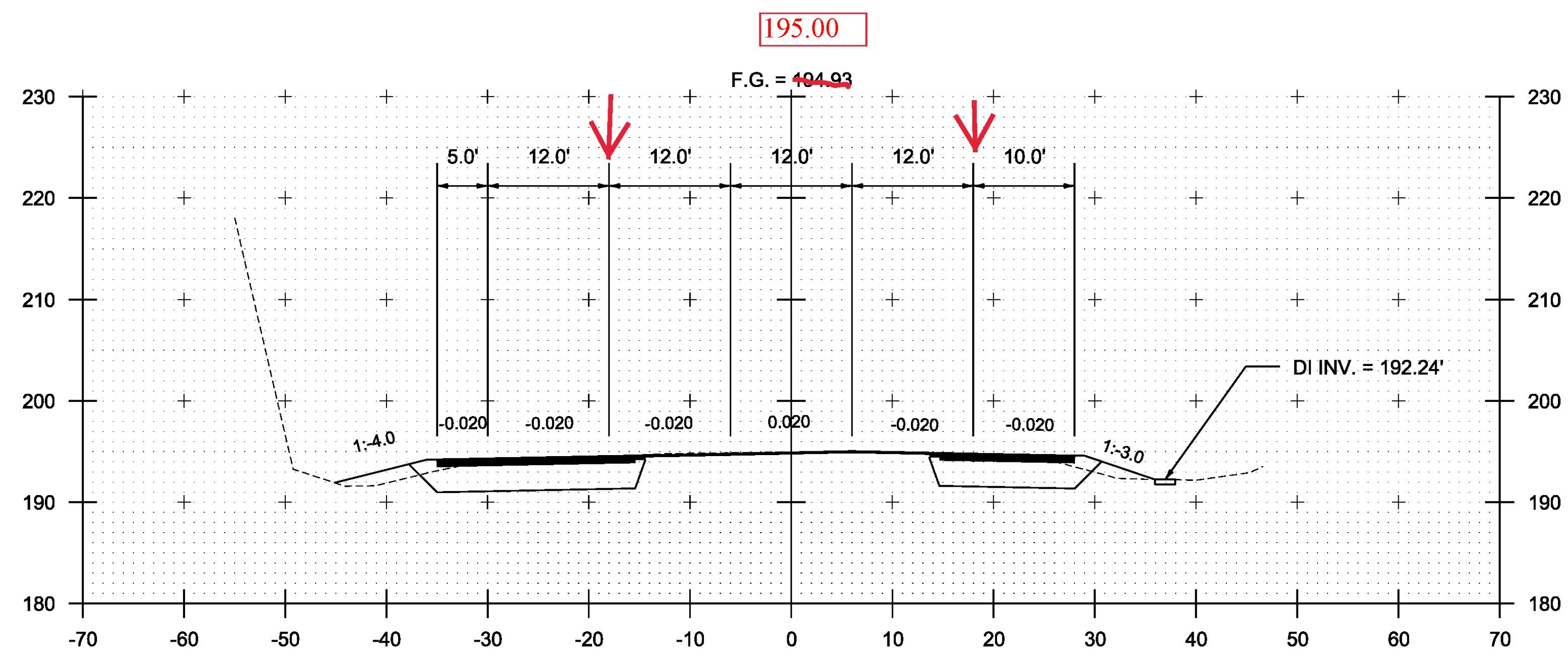
21+50

23+00



STA. 21+50 TO STA. 23+50

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: i3b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 5	SHEET 6 OF 9



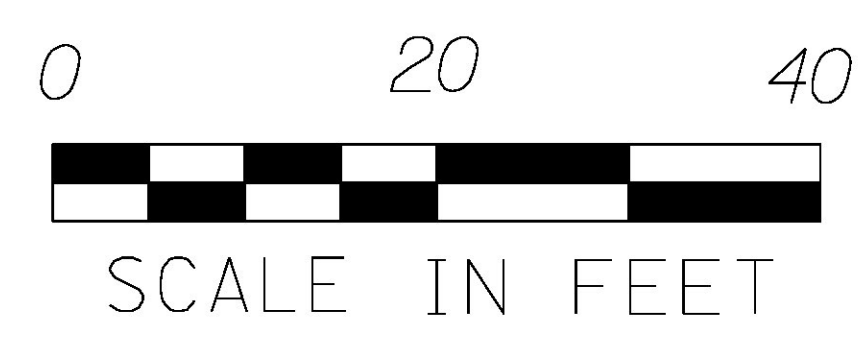
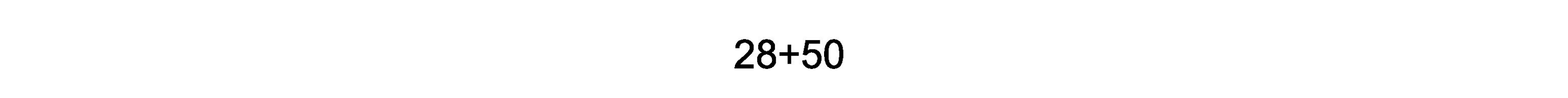
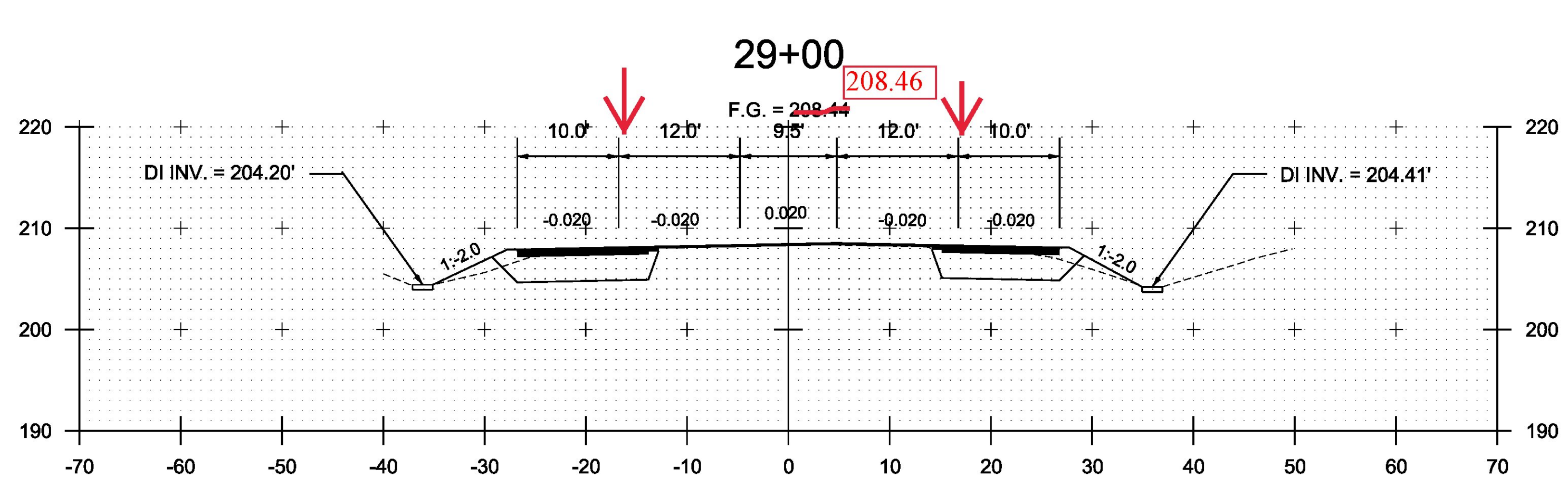
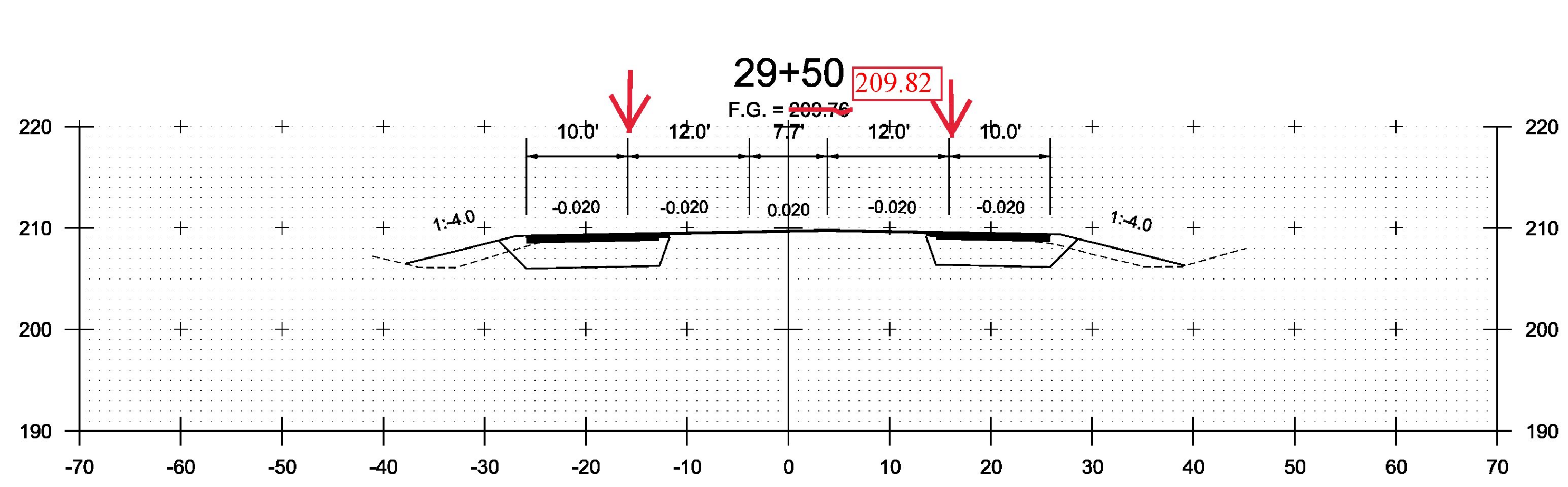
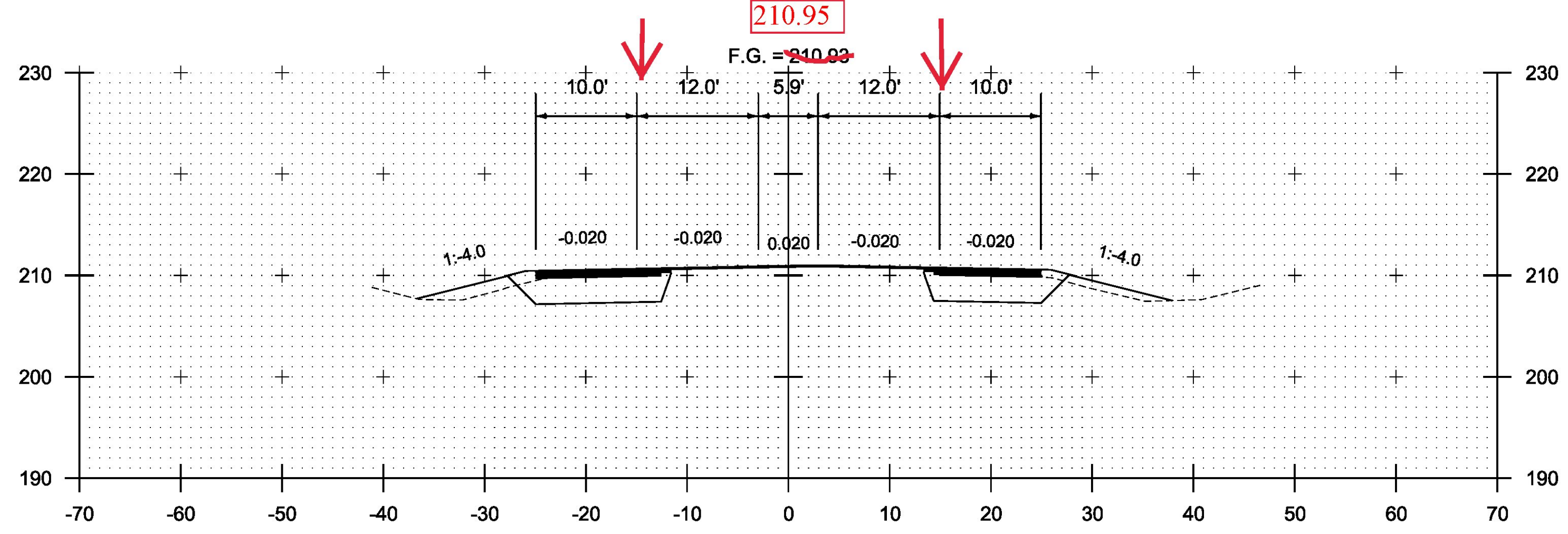
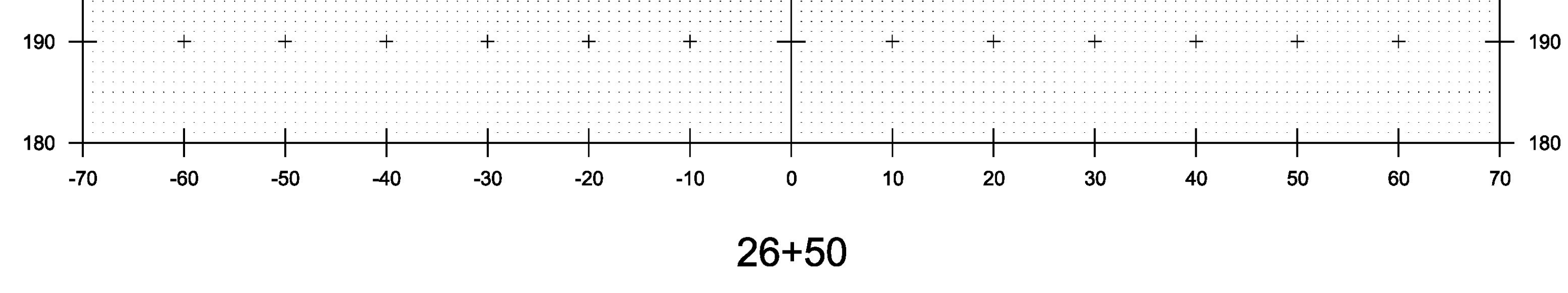
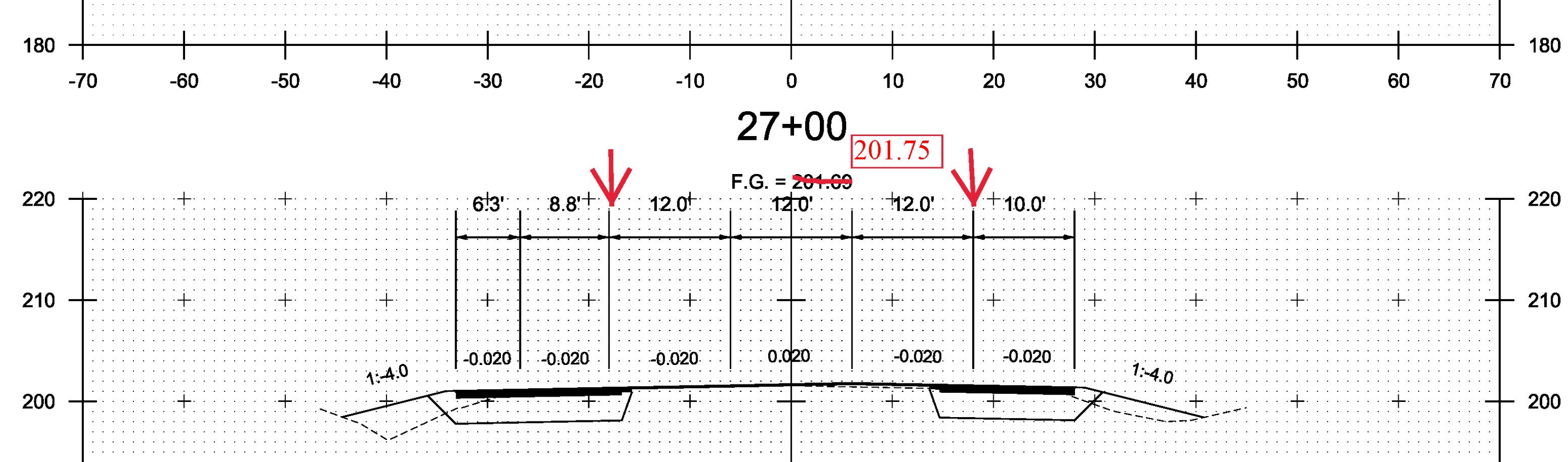
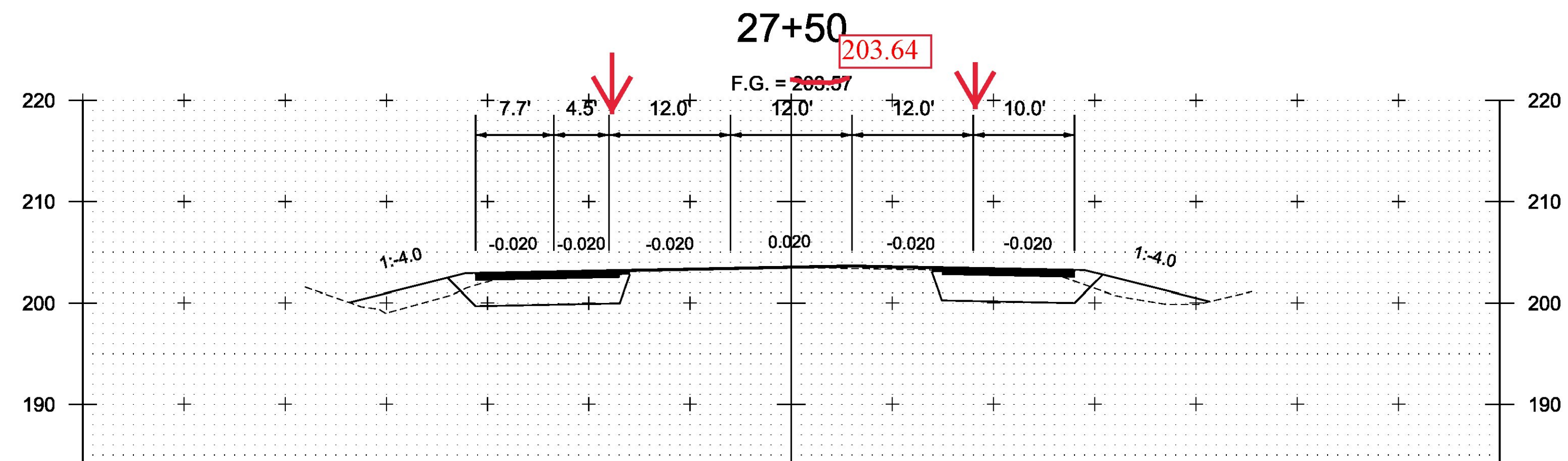
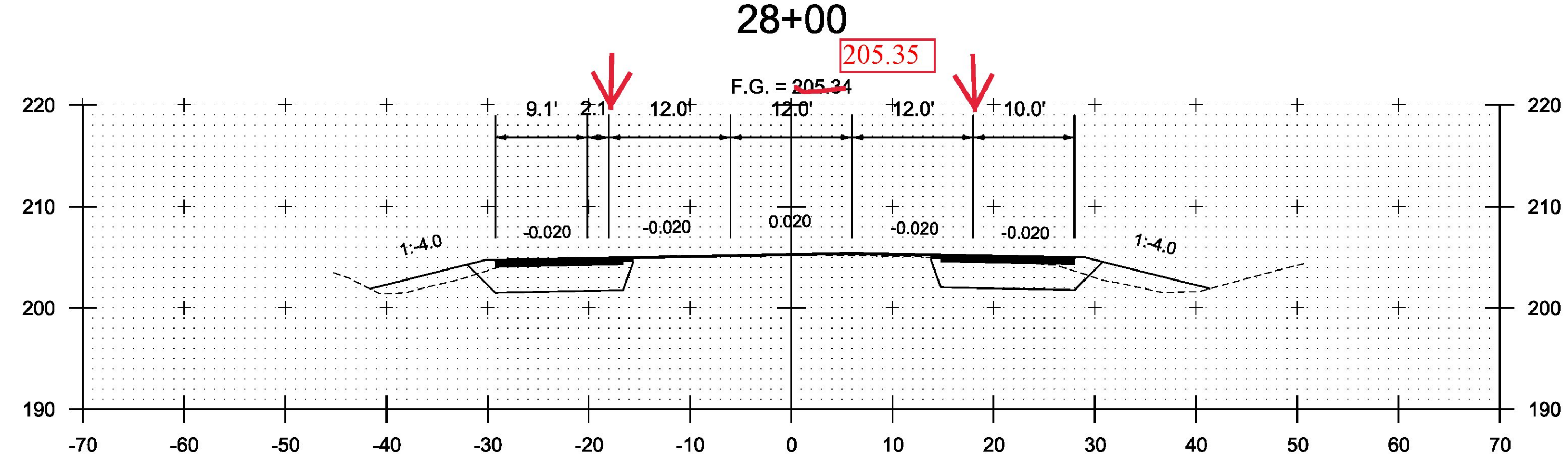
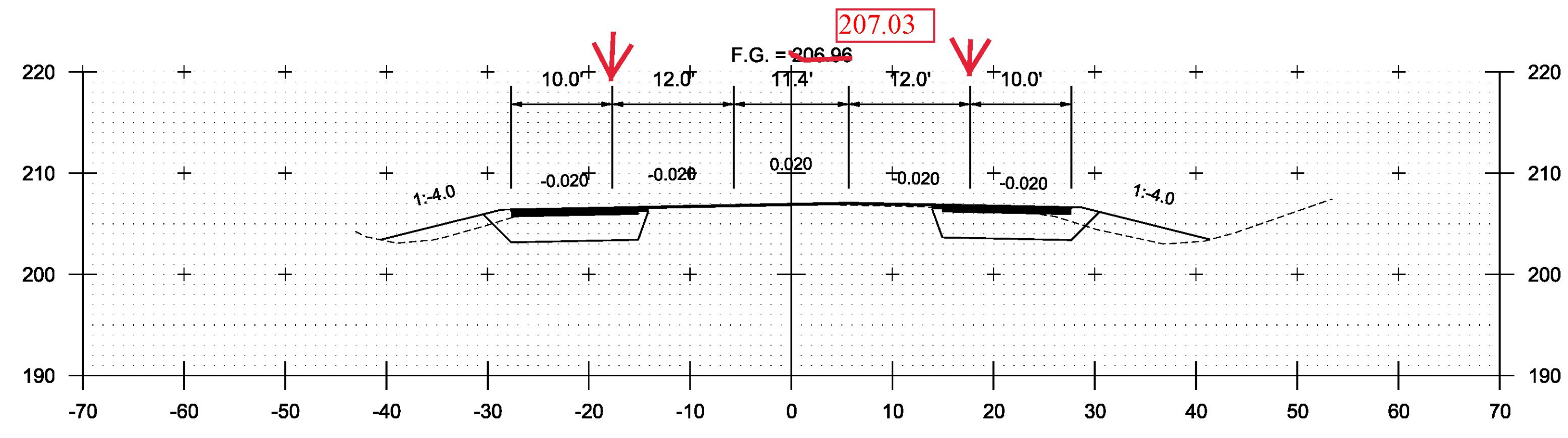
24+00

25+00



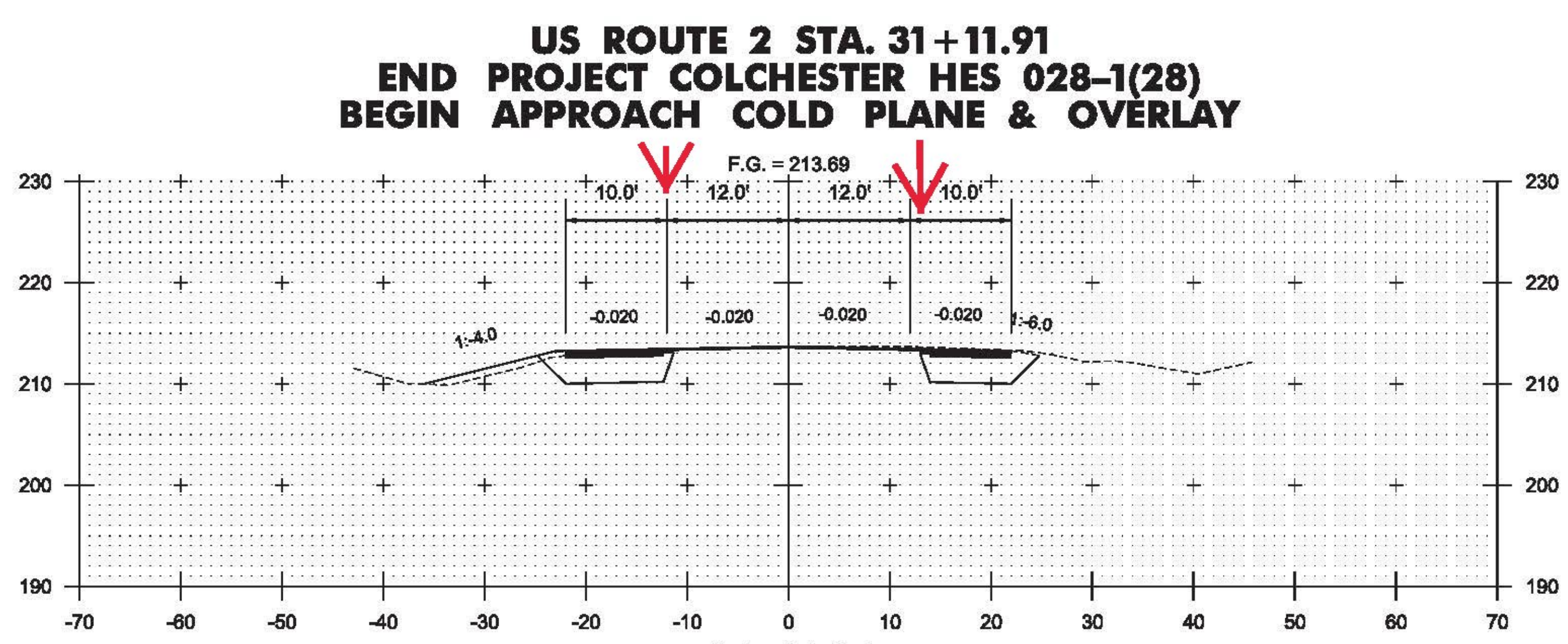
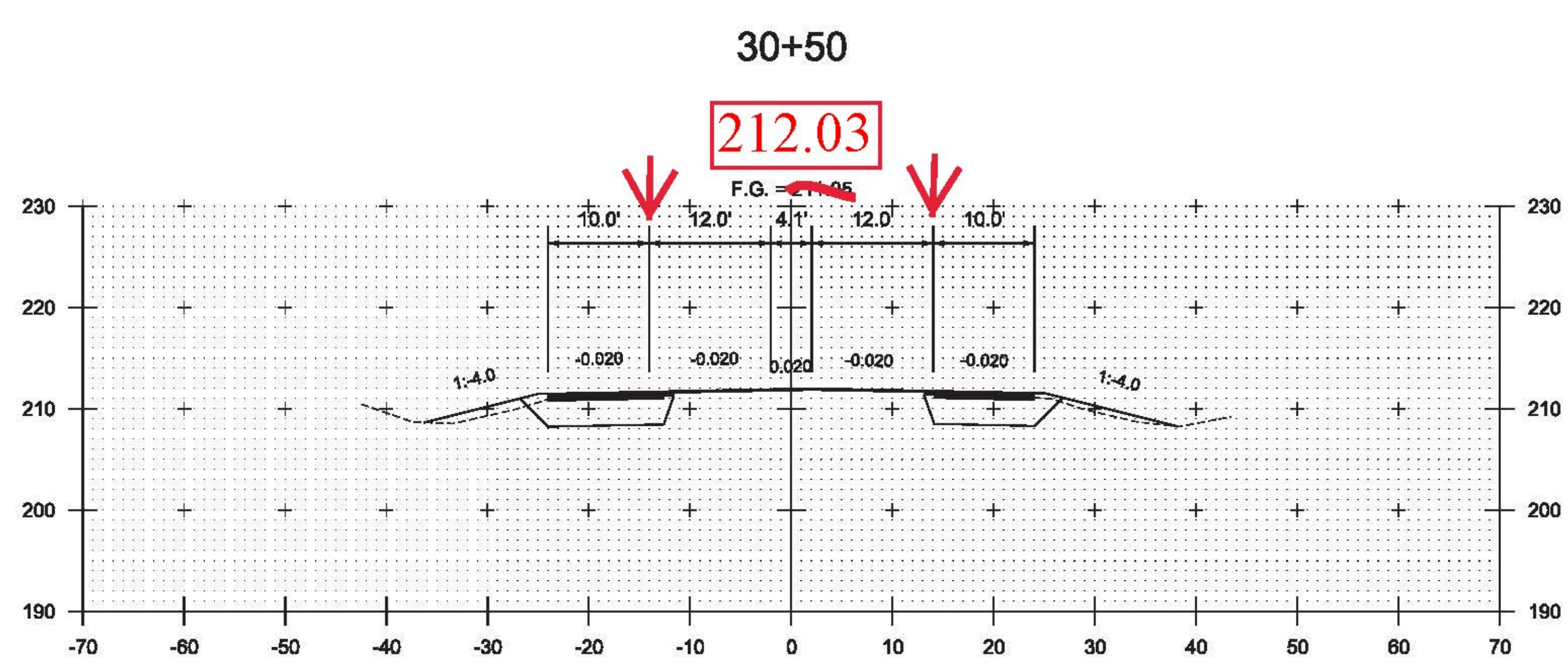
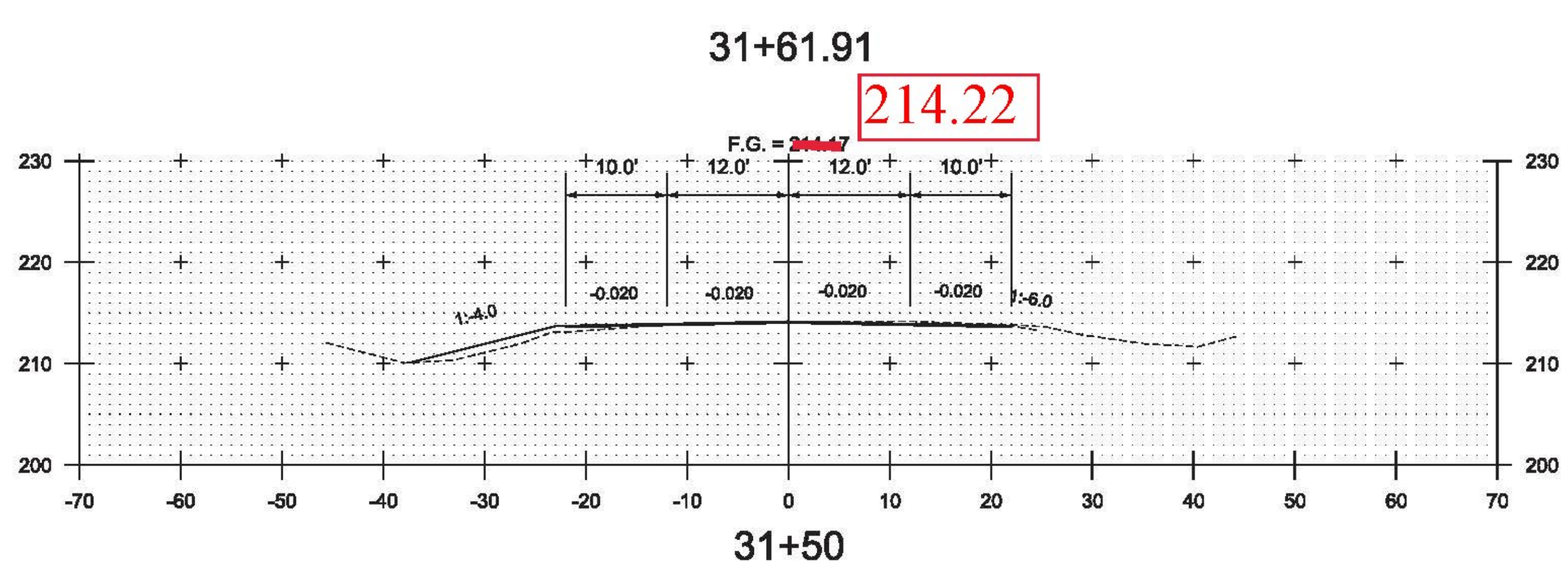
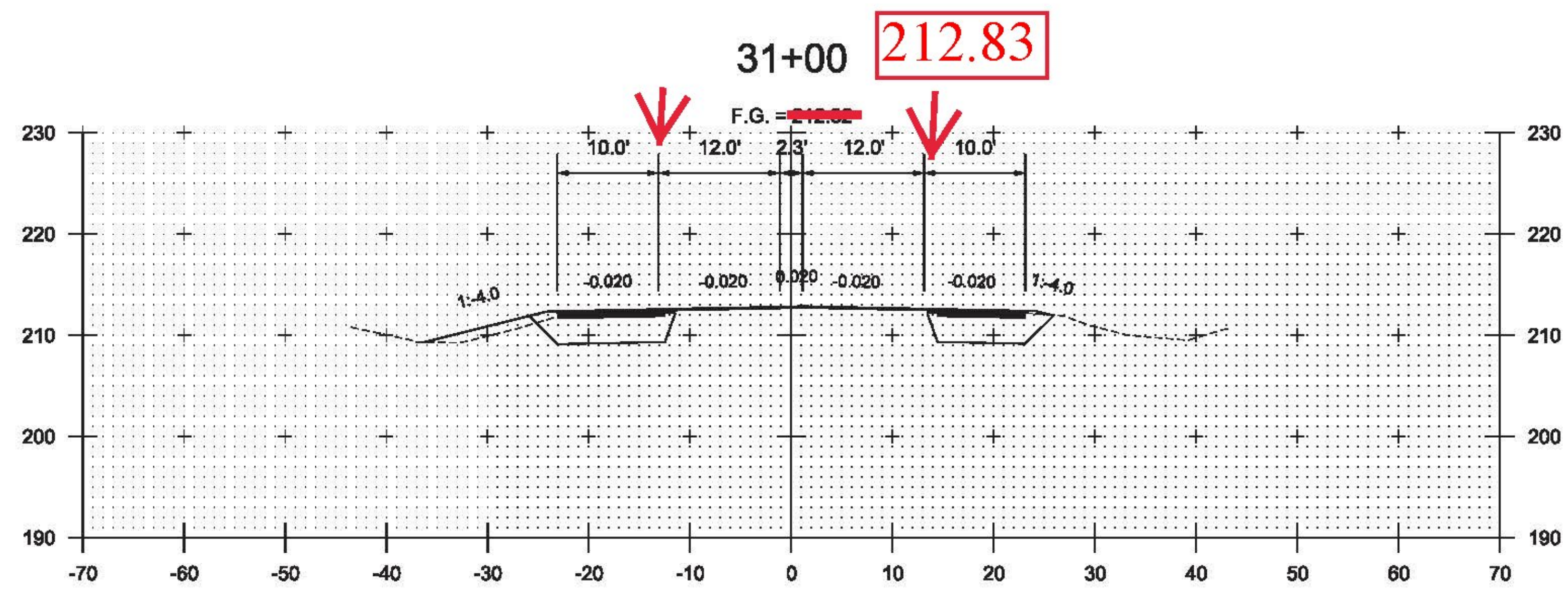
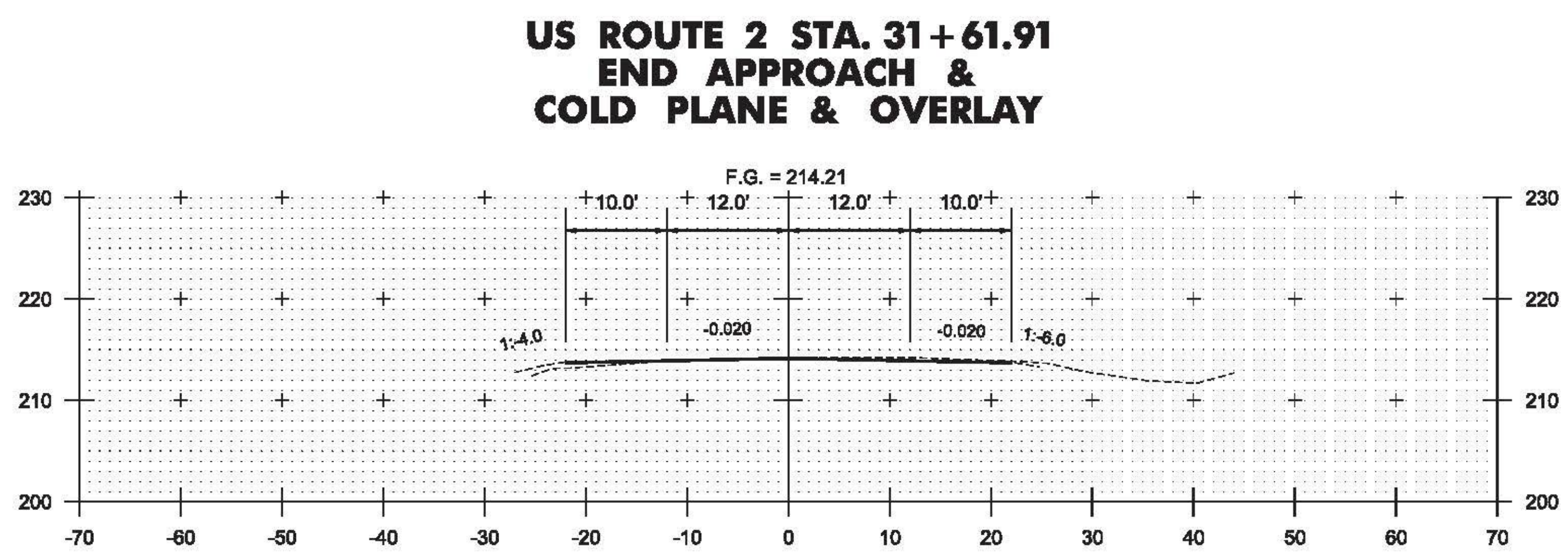
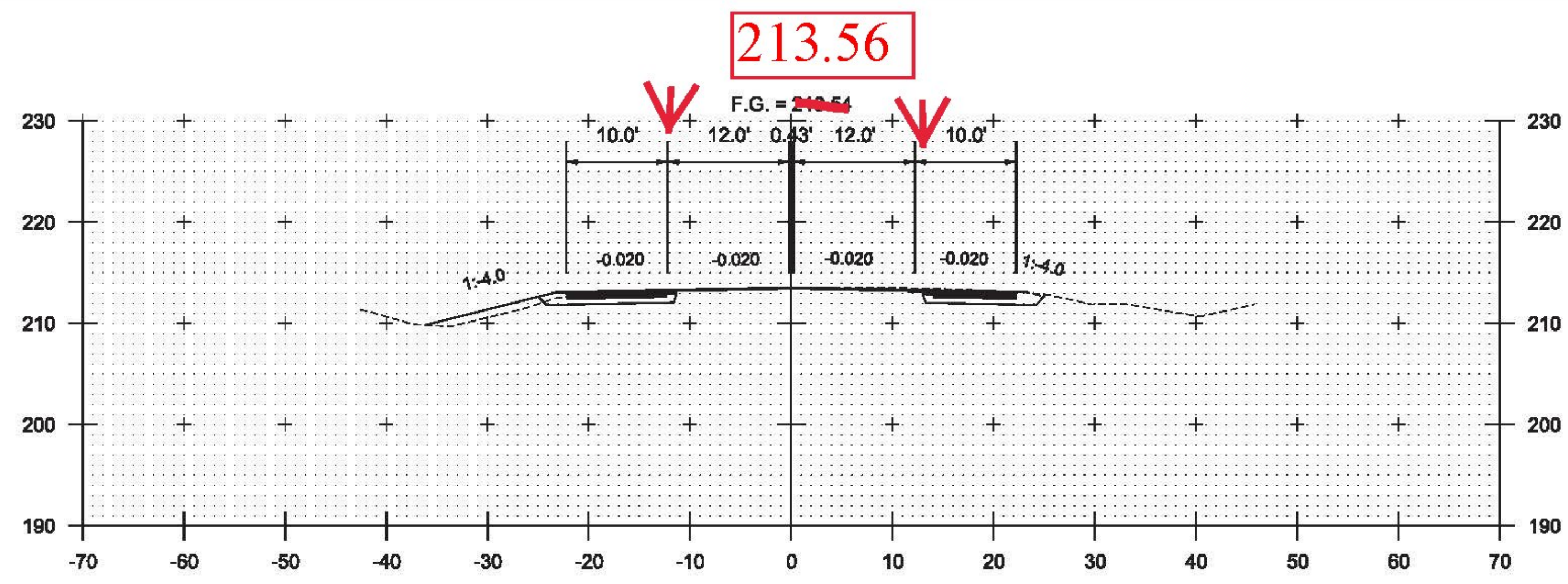
STA. 24+00 TO STA. 26+00

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 6	SHEET 68 OF 91

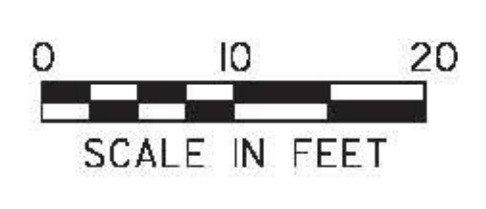


STA. 26+50 TO STA. 29+50

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-I(28)	
FILE NAME: t13b028xsl.dgn	PLOT DATE: 12/7/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 7	SHEET 69 OF 91



**US ROUTE 2 STA. 31+11.91  
END PROJECT COLCHESTER HES 028-1(28)  
BEGIN APPROACH COLD PLANE & OVERLAY**

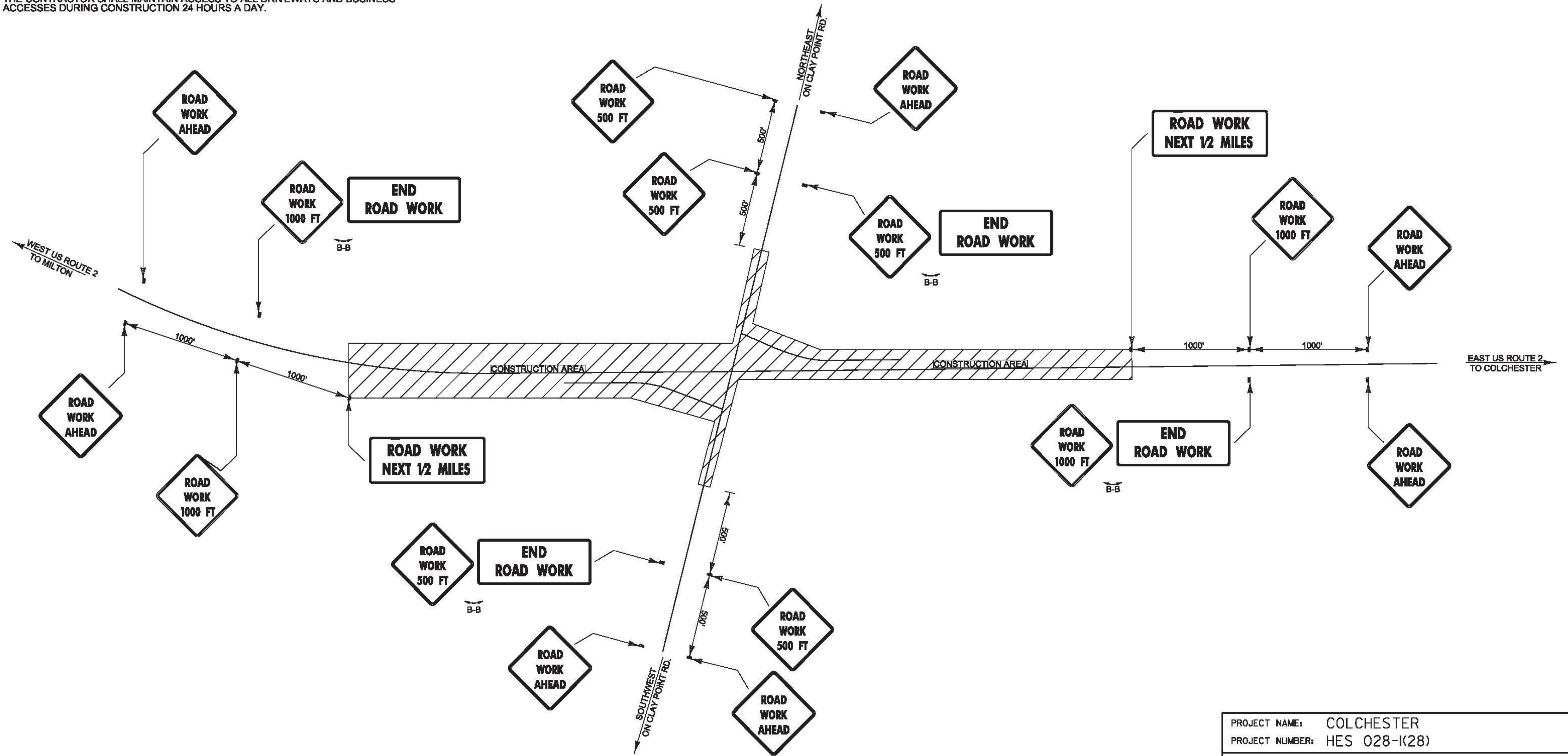


STA. 30+00 TO STA. 31+61.91

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: i13b028xsl.dgn	PLOT DATE: 12/15/2015
PROJECT LEADER: COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CROSS SECTION SHEET 8	SHEET 70 OF 91

## TRAFFIC CONTROL GENERAL NOTES

1. THE CONSTRUCTION SEQUENCING PLAN HEREIN IS DEMONSTRATIVE FOR CONSTRUCTABILITY AND SHALL NOT BE CONSIDERED A TRAFFIC CONTROL PLAN. THE CONTRACTOR MUST SUBMIT A SEPARATE SITE-SPECIFIC TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER, A MINIMUM OF 2 WEEKS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES FOR REVIEW AND APPROVAL. THE TRAFFIC CONTROL PLAN SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF VERMONT.
2. REFER TO THE T-SERIES VERMONT STATE CONSTRUCTION STANDARDS AND THE LATEST EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR DETAILED INFORMATION REGARDING CHANNELIZATION DEVICES, TAPER LENGTHS, BARRICADES, DETOURS, LONGITUDINAL DROP-OFFS AND MISCELLANEOUS TRAFFIC CONTROL DETAILS, IF APPLICABLE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING CONSTRUCTION SIGNAGE SO AS NOT TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE. EXISTING SIGNS SHALL BE COVERED OR REMOVED WHEN THEY CONFLICT WITH CONSTRUCTION TRAFFIC OPERATIONS.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND BUSINESS ACCESSES DURING CONSTRUCTION 24 HOURS A DAY.
5. FURNISHING, INSTALLING, MAINTENANCE OF, RELOCATING AND REMOVING REFLECTORIZED DRUMS, CONSTRUCTION SIGNING FOR TRAFFIC SHIFTS AND PEDESTRIAN BARRICADES AND SIGNAGE WILL BE PAID FOR UNDER CONTRACT ITEM 641.10, TRAFFIC CONTROL (COLCHESTER HES 028-1(28)).
6. FURNISHING AND PERFORMING ORIGINAL INSTALLATION AND FINAL REMOVAL FROM THE PROJECT OF TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER CONTRACT ITEM 621.90, TEMPORARY TRAFFIC BARRIER. PAYMENT FOR INTERMITTENT REMOVING AND RESETTING OF TEMPORARY TRAFFIC BARRIER TO ACCOMMODATE PHASED CONSTRUCTION, AS ALLOWED UNDER SUBSECTION 621.14, WILL BE MADE UNDER CONTRACT ITEM 621.95. REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. TEMPORARY TRAFFIC BARRIERS SHALL BE DELINEATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE LATEST EDITION OF THE MUTCD. DELINEATION OF TRAFFIC BARRIERS WILL BE PAID FOR UNDER CONTRACT ITEM 641.10, TRAFFIC CONTROL (COLCHESTER HES 028-1(28)).
7. WHERE TEMPORARY TRAFFIC BARRIER IS USED, ELEVATION DIFFERENCES BETWEEN A PORTION OF ROADWAY OPENED FOR TRAFFIC AND A PORTION OF ROADWAY CONSTRUCTED SHALL NOT EXCEED 18" DURING NON-WORKING HOURS.
8. SPECIAL CARE SHALL BE TAKEN TO PROVIDE ACCESS THROUGH THE WORK ZONES FOR EMERGENCY VEHICLES. THE CONTRACTOR SHALL COORDINATE WITH BOTH POLICE AND FIRE DEPARTMENTS FROM MILTON, COLCHESTER AND SOUTH HERO TO DETERMINE THEIR MINIMUM ACCESS REQUIREMENTS BEFORE PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT ACCESS IS AVAILABLE TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES.
9. ALL SIGNS SHALL BE PAID FOR UNDER ITEM NO. 641.10, TRAFFIC CONTROL (COLCHESTER HES 028-1(28)).
10. THE CONTRACTOR SHALL PROVIDE TWO (2) PORTABLE CHANGEABLE MESSAGE SIGNS FOR THE DURATION OF THE PROJECT. THE LOCATION AND MESSAGE CONTENT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PAID FOR UNDER CONTRACT ITEM 641.15, PORTABLE CHANGEABLE MESSAGE BOARDS.
11. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION SIGNING APPROACH PLANS AND THE LATEST EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. INSTALL AND MAINTAIN ANY EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PLANS AND DETAILS IN ADDITION TO THE VERMONT D.E.C.'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
13. INSTALL ALL WARNING SIGNAGE, REFLECTORIZED DRUMS, TRAFFIC BARRIER, AND ANY OTHER TRAFFIC CONTROL DEVICES PER ACCEPTED TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.
14. INSTALL ANY STORMWATER TREATMENT PRACTICES AND DRAINAGE ELEMENTS AS SHOWN ON THEIR APPLICABLE PLANS.



### CONSTRUCTION APPROACH SIGNING

NOT TO SCALE  
SEE STD T-10  
FOR SIGN PLACEMENT

PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028frm.dgn	PLOT DATE: 12/15/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CONSTRUCTION APPROACH SIGNING	SHEET 71 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

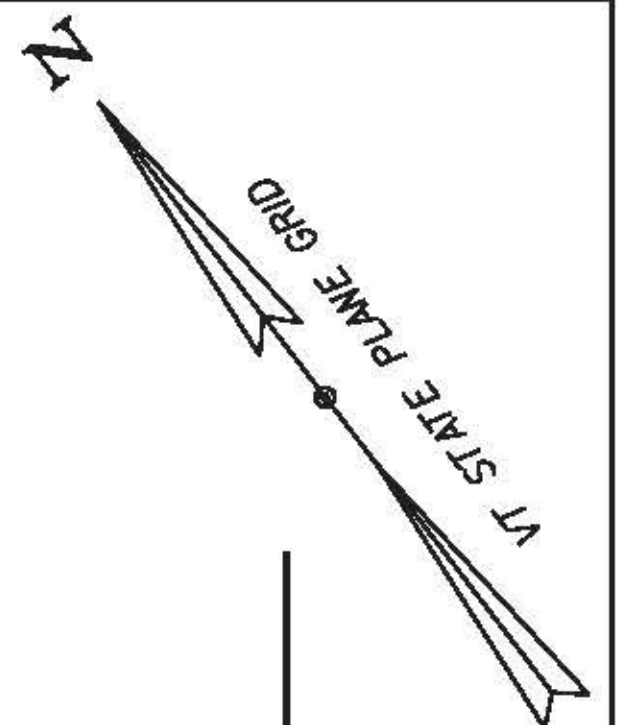
1. ALLOW TRAFFIC FLOW THROUGH ON THE EXISTING US ROUTE 2 LANES.
2. BEGIN WIDENING WORK ALONG US ROUTE 2.

**NOTES:**

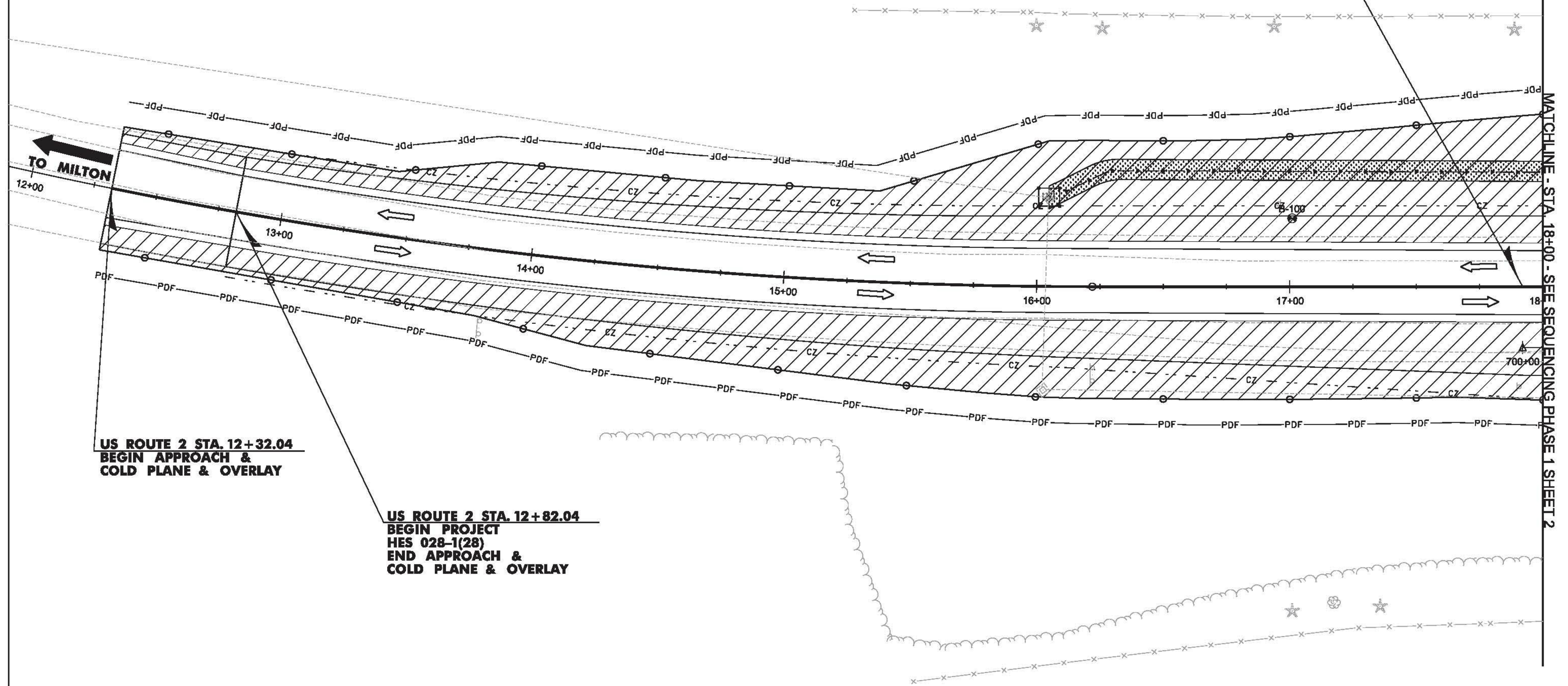
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 12+32.04, LT - STA. 18+00.00, LT (568')  
 STA. 12+32.04, RT - STA. 18+00.00, RT (568')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 12+32.04, CL - STA. 18+00.00, CL (1136')



**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
 US ROUTE 2 EB RAMP STA. 700+00.00**






**TO MILTON**

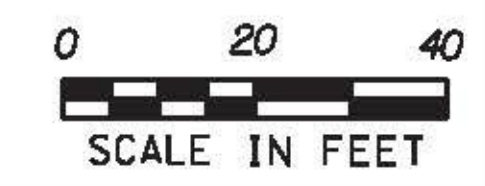
**US ROUTE 2 STA. 12+32.04  
 BEGIN APPROACH &  
 COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+82.04  
 BEGIN PROJECT  
 HES 028-1(28)  
 END APPROACH &  
 COLD PLANE & OVERLAY**

**MATCHLINE - STA. 18+00.00 - SEE SEQUENCING PHASE 1 SHEET 2**

**LEGEND**

	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	DESIGNED BY: M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 1 SHEET 1 SHEET 72 OF 91	

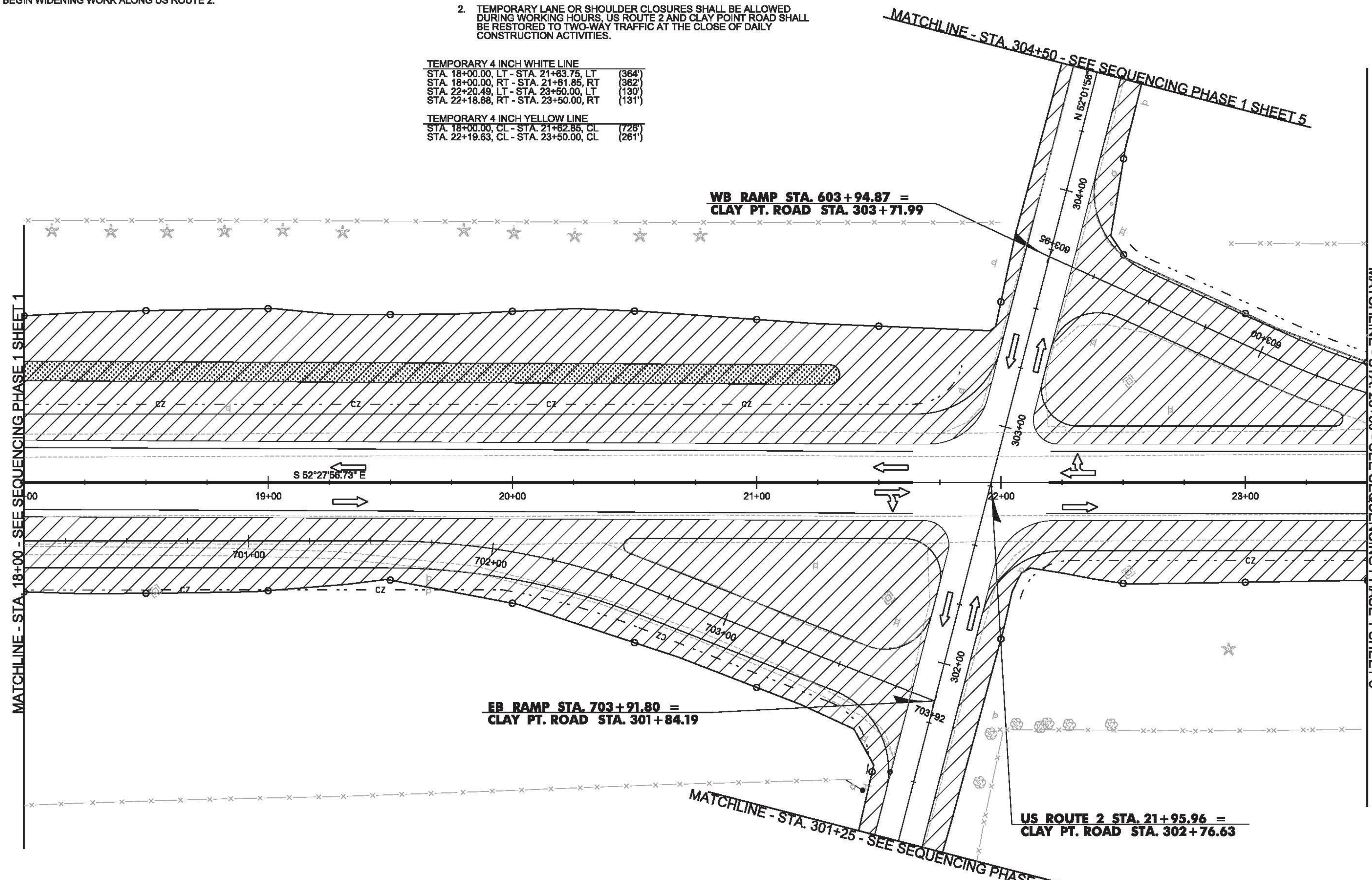
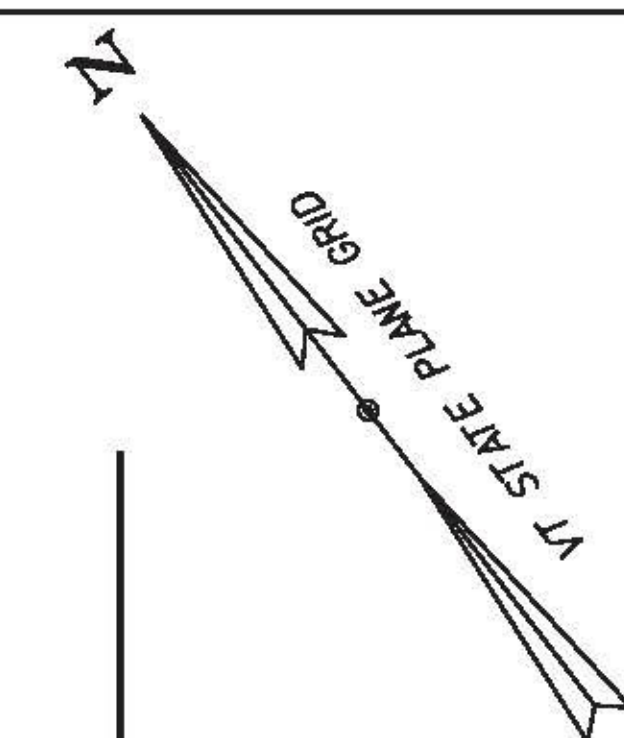
**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

**NOTES:**

1. ALLOW TRAFFIC FLOW THROUGH ON THE EXISTING US ROUTE 2 LANES.
2. BEGIN WIDENING WORK ALONG US ROUTE 2.

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE		
STA. 18+00.00, LT - STA. 21+83.75, LT	(384')	
STA. 18+00.00, RT - STA. 21+81.85, RT	(382')	
STA. 22+20.49, LT - STA. 23+50.00, LT	(130')	
STA. 22+18.68, RT - STA. 23+50.00, RT	(131')	
TEMPORARY 4 INCH YELLOW LINE		
STA. 18+00.00, CL - STA. 21+82.85, CL	(728')	
STA. 22+19.63, CL - STA. 23+50.00, CL	(261')	



MATCHLINE - STA. 18+00 - SEE SEQUENCING PHASE 1 SHEET 1

MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 1 SHEET 3

MATCHLINE - STA. 304+50 - SEE SEQUENCING PHASE 1 SHEET 5

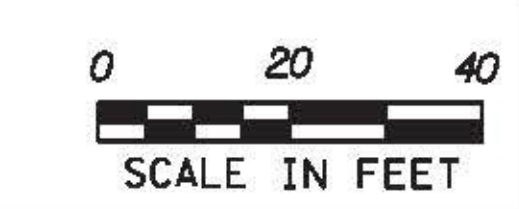
MATCHLINE - STA. 301+25 - SEE SEQUENCING PHASE 1 SHEET 5

US ROUTE 2 STA. 21+95.96 = CLAY PT. ROAD STA. 302+76.63

WB RAMP STA. 603+94.87 = CLAY PT. ROAD STA. 303+71.99

EB RAMP STA. 703+91.80 = CLAY PT. ROAD STA. 301+84.19

LEGEND	
	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-(K28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 1 SHEET 2 SHEET 73 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

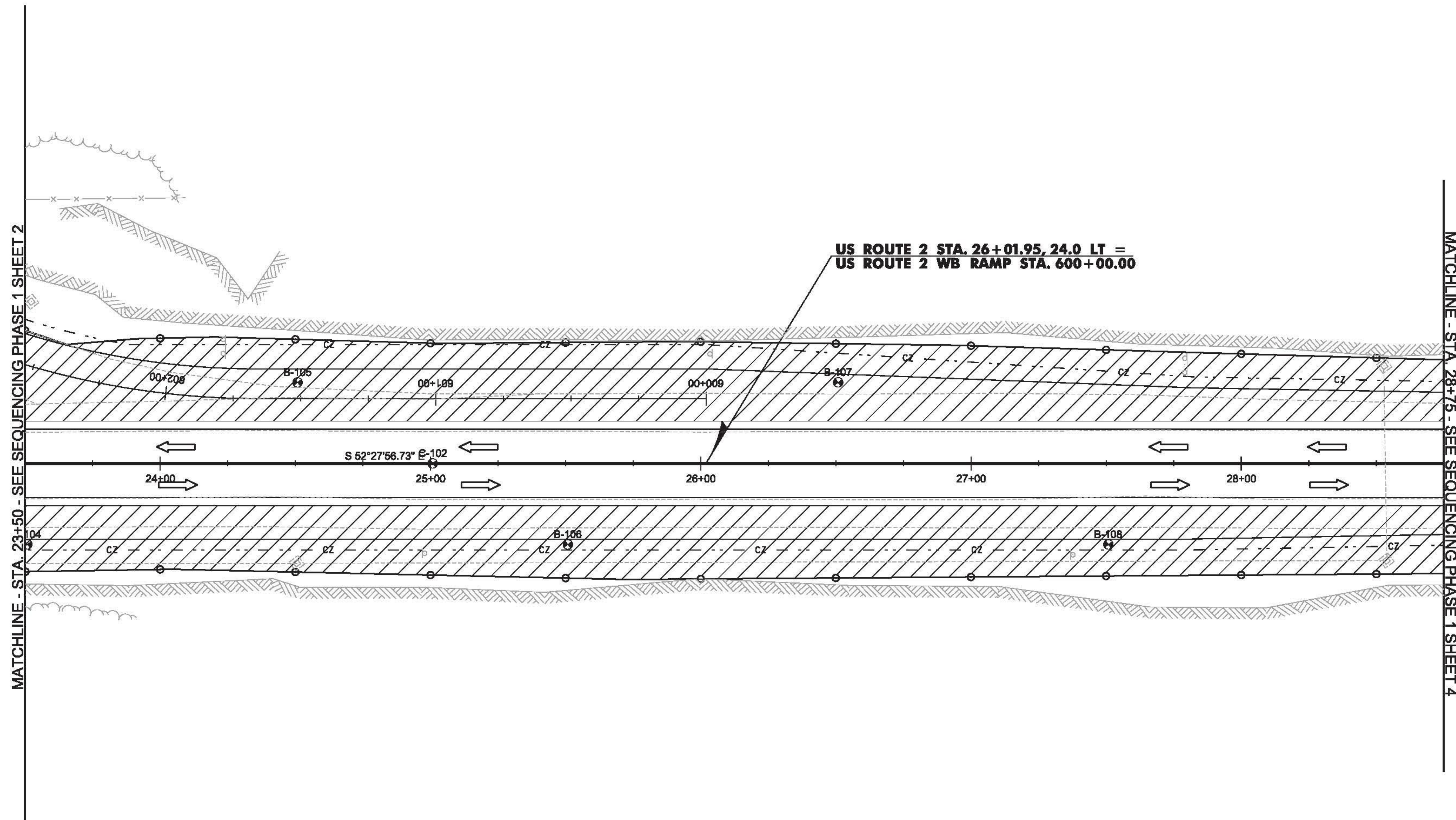
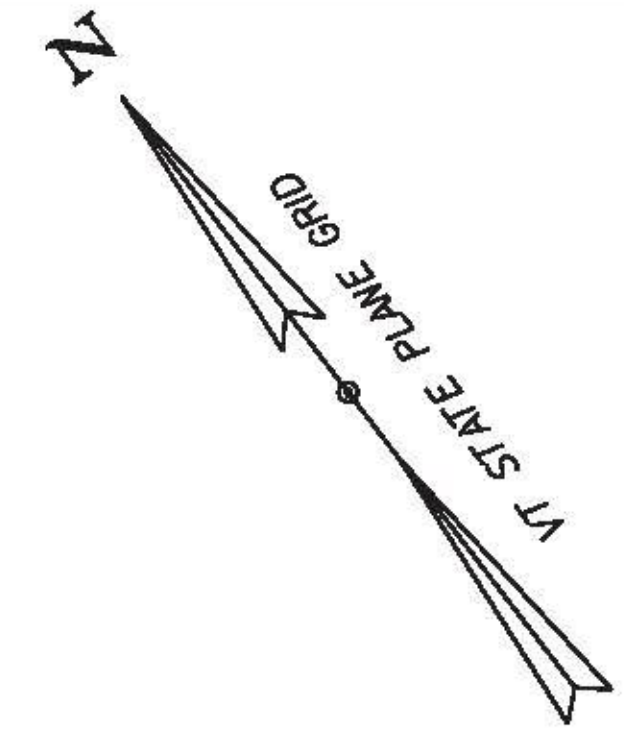
1. ALLOW TRAFFIC FLOW THROUGH ON THE EXISTING US ROUTE 2 LANES.
2. BEGIN WIDENING WORK ALONG US ROUTE 2.

**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 23+50.00, LT - STA. 28+75.00, LT (525')  
 STA. 23+50.00, RT - STA. 28+75.00, RT (525')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 23+50.00, CL - STA. 28+75.00, CL (1050')

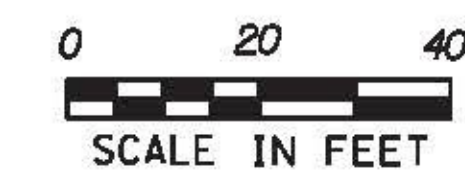


MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 1 SHEET 2

MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 1 SHEET 4

**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER  
 PROJECT NUMBER: HES 028-I(28)

FILE NAME: t13b028+cp.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 CONSTRUCTION SEQUENCING PHASE 1 SHEET 3 SHEET 74 OF 91

PLOT DATE: 12/15/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. LACROIX

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

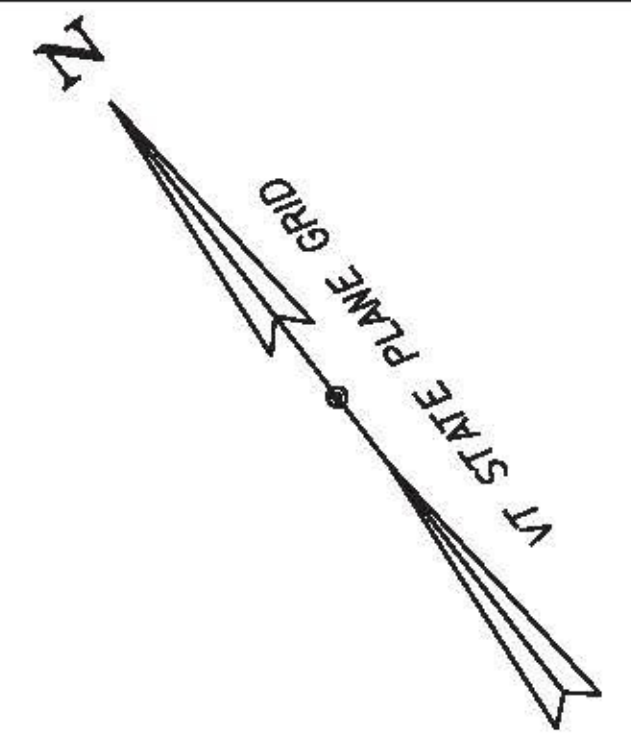
1. ALLOW TRAFFIC FLOW THROUGH ON THE EXISTING US ROUTE 2 LANES.
2. BEGIN WIDENING WORK ALONG US ROUTE 2.

**NOTES:**

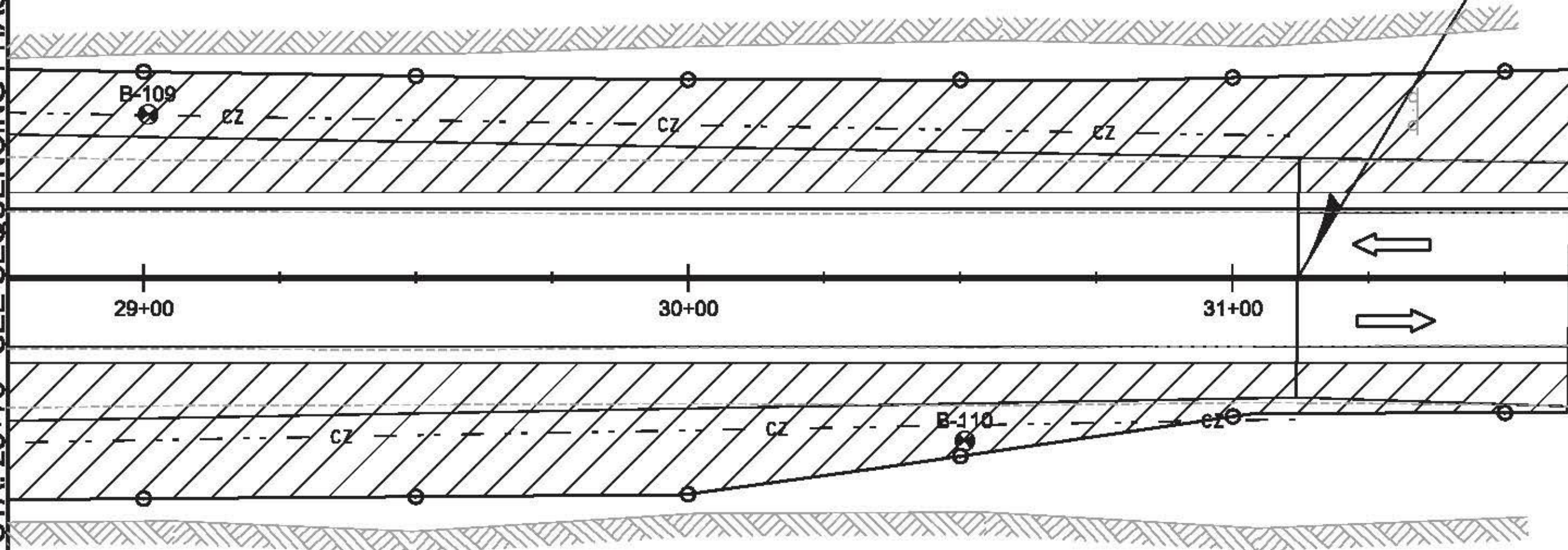
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 28+75.00, LT - STA. 31+61.91, LT (287')  
 STA. 28+75.00, RT - STA. 31+61.91, RT (287')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 28+75.00, CL - STA. 31+61.91, CL (574')



MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 1 SHEET 3



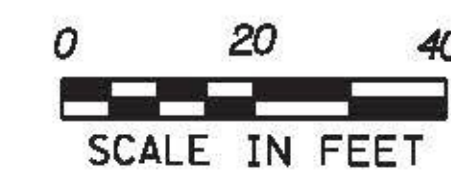
**US ROUTE 2 STA. 31+11.91**  
 END PROJECT  
 HES 028-1(28)  
 BEGIN APPROACH &  
 COLD PLANE & OVERLAY

**US ROUTE 2 STA. 31+61.91**  
 END APPROACH &  
 COLD PLANE & OVERLAY

**TO JUNCTION  
 OF I-89**

**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



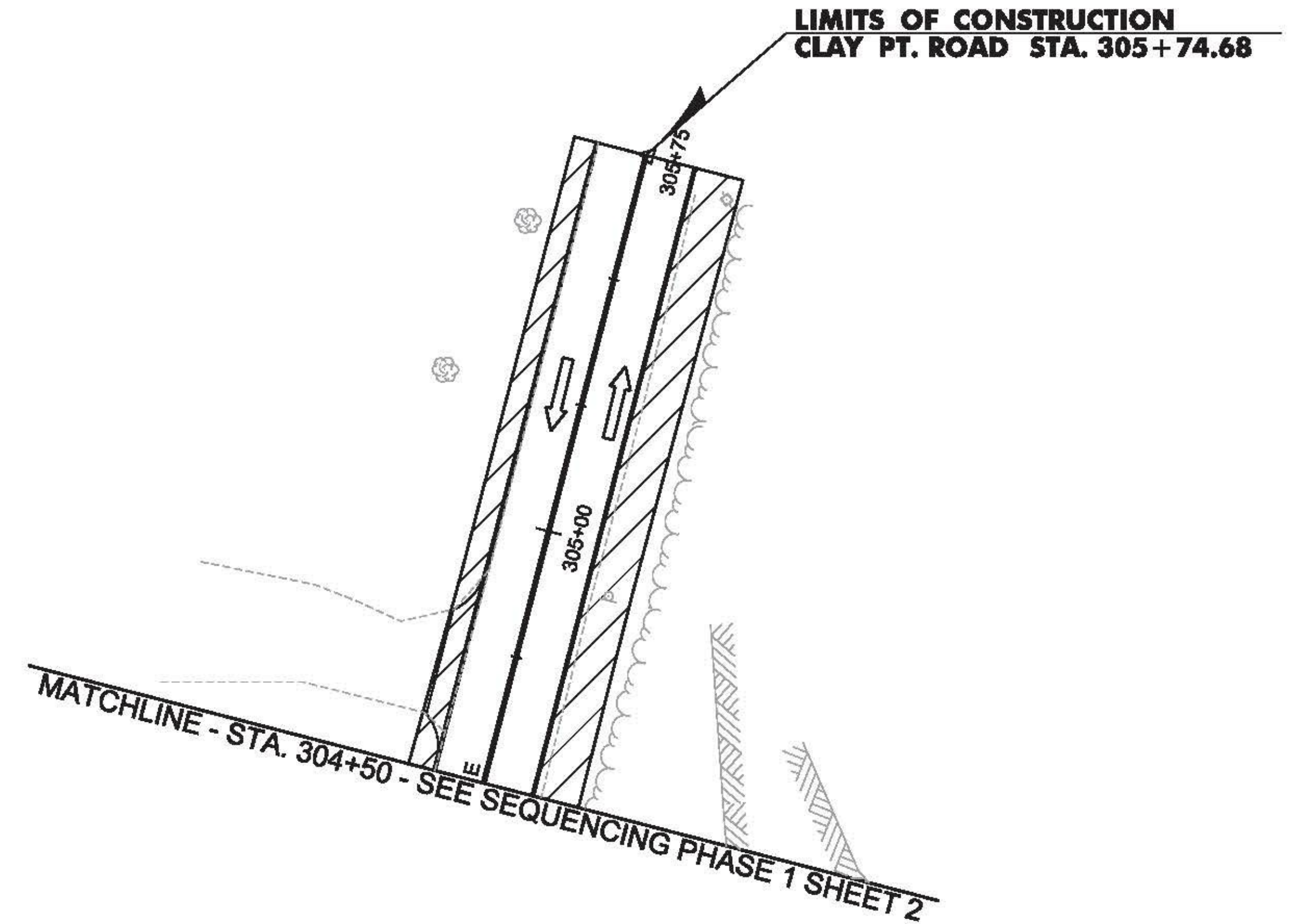
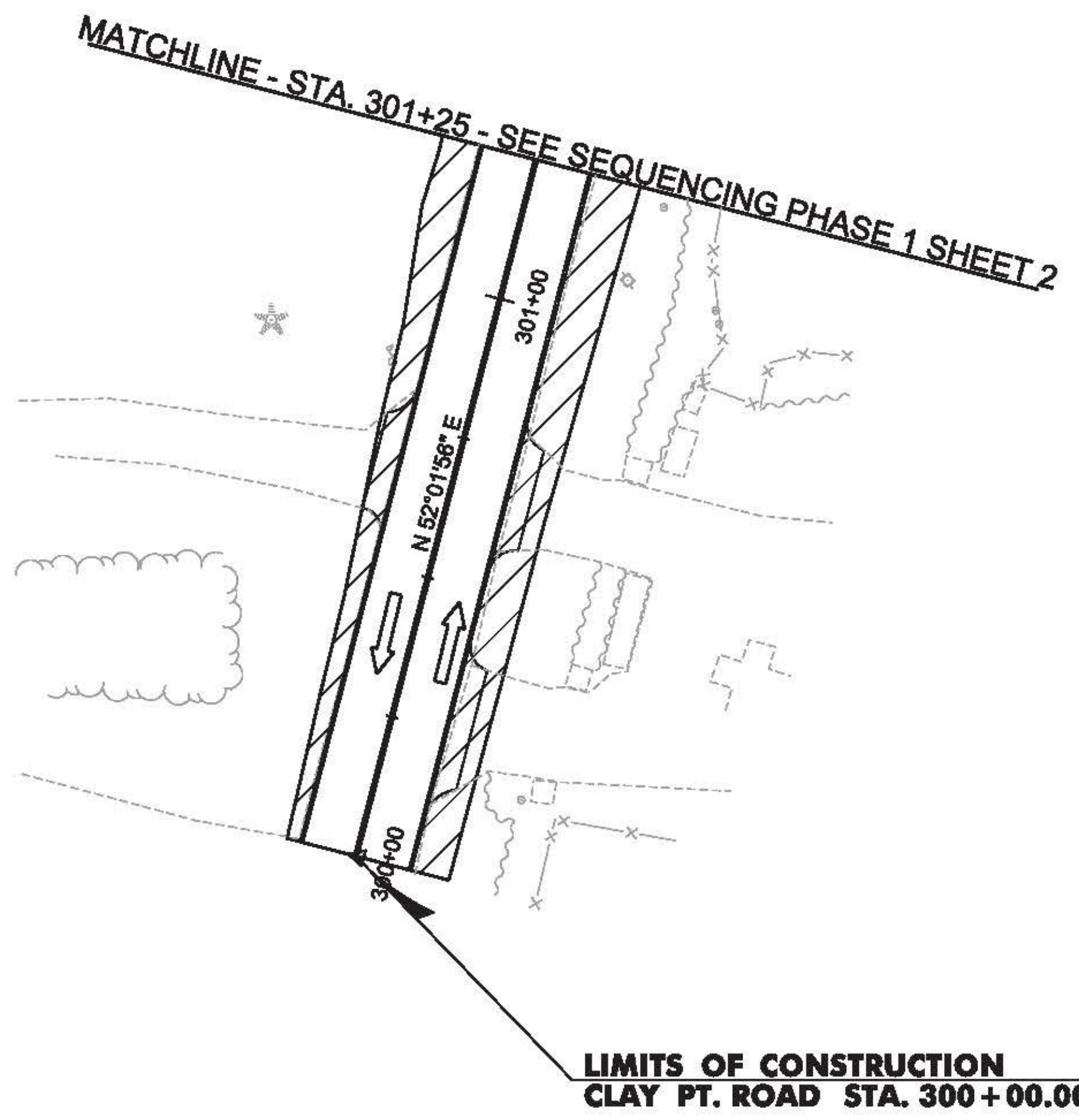
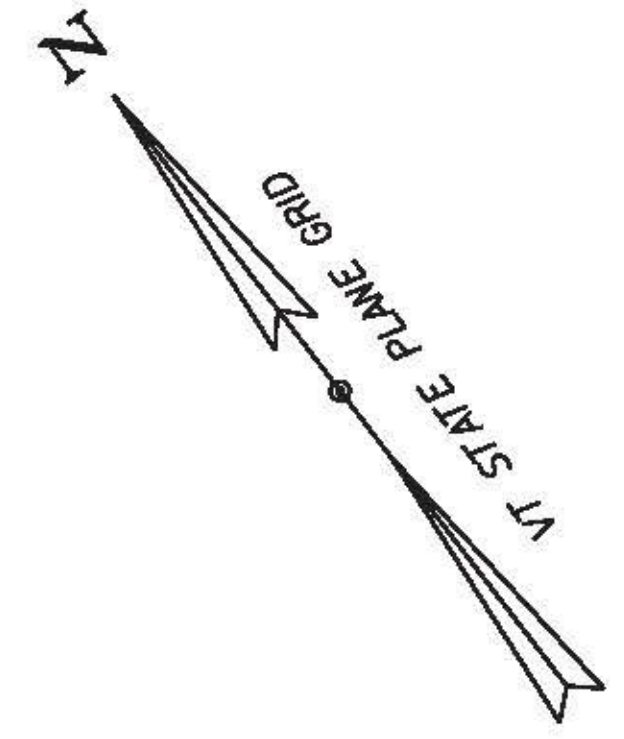
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	DESIGNED BY: M. BOGACZYK
PROJECT LEADER: P. COBURN	CHECKED BY: M. LACROIX
TRAFFIC CONTROL PHASE 1 SHEET 4	SHEET 75 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**




1. ALLOW TRAFFIC FLOW THROUGH ON THE EXISTING US ROUTE 2 LANES.
2. BEGIN WIDENING WORK ALONG US ROUTE 2.

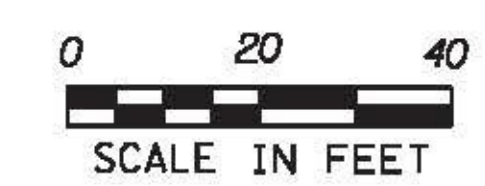
**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



**LEGEND**

	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	DESIGNED BY: M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 1 SHEET 5 SHEET 76 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

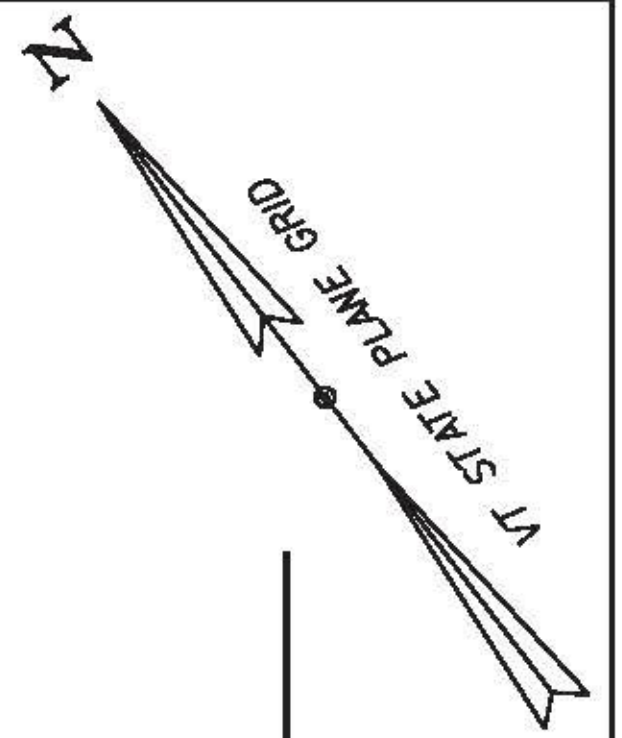
1. SHIFT TRAFFIC TO THE US ROUTE 2 WESTBOUND HALF OF THE ROAD.
2. CLOSE EASTBOUND RAMP FOR CONSTRUCTION. EASTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

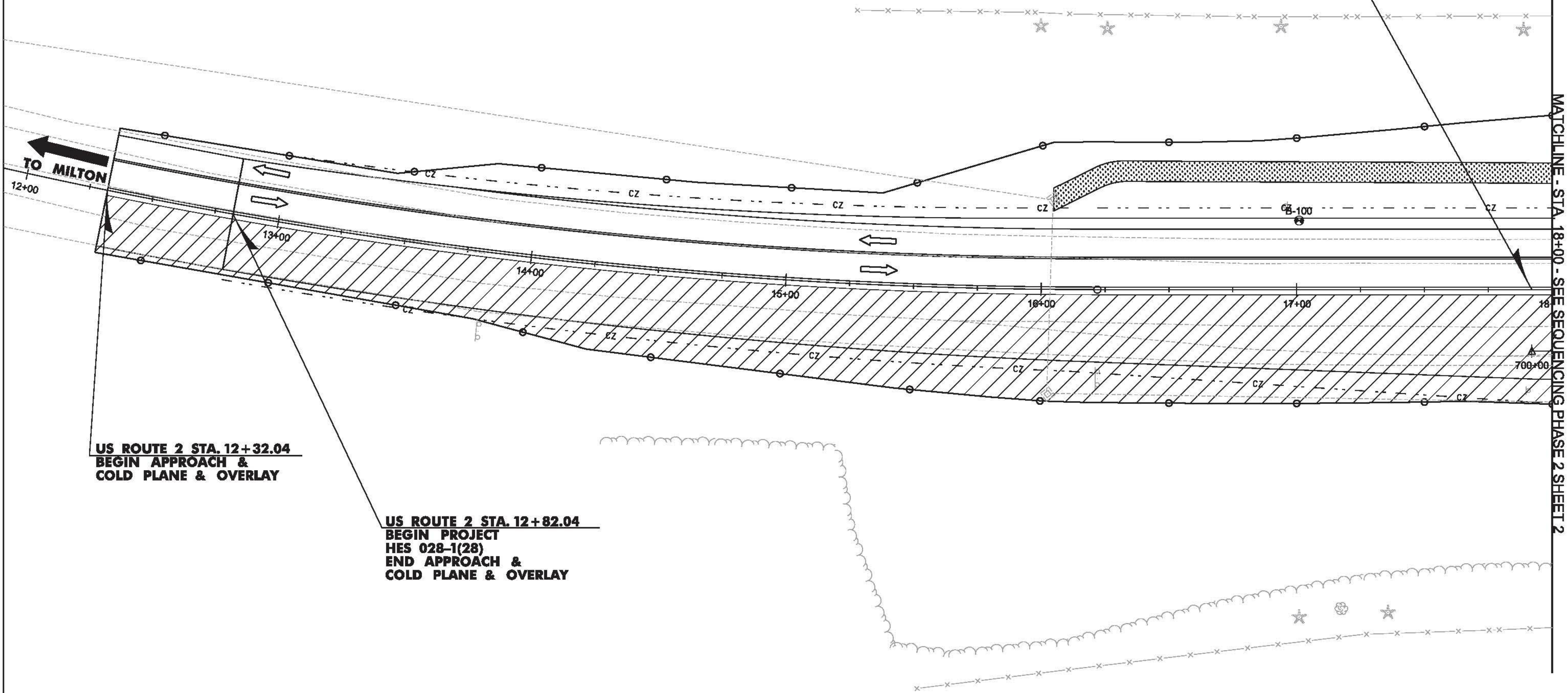
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 12+32.04, LT - STA. 18+00.00, LT (568')  
 STA. 12+32.04, RT - STA. 18+00.00, RT (568')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 12+32.04, CL - STA. 18+00.00, CL (1136')



**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
 US ROUTE 2 EB RAMP STA. 700+00.00**



**US ROUTE 2 STA. 12+32.04  
 BEGIN APPROACH &  
 COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+82.04  
 BEGIN PROJECT  
 HES 028-1(28)  
 END APPROACH &  
 COLD PLANE & OVERLAY**

LEGEND	
	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	DESIGNED BY: M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 2 SHEET 1 SHEET 77 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

1. SHIFT TRAFFIC TO THE US ROUTE 2 WESTBOUND HALF OF THE ROAD.
2. CLOSE EASTBOUND RAMP FOR CONSTRUCTION. EASTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

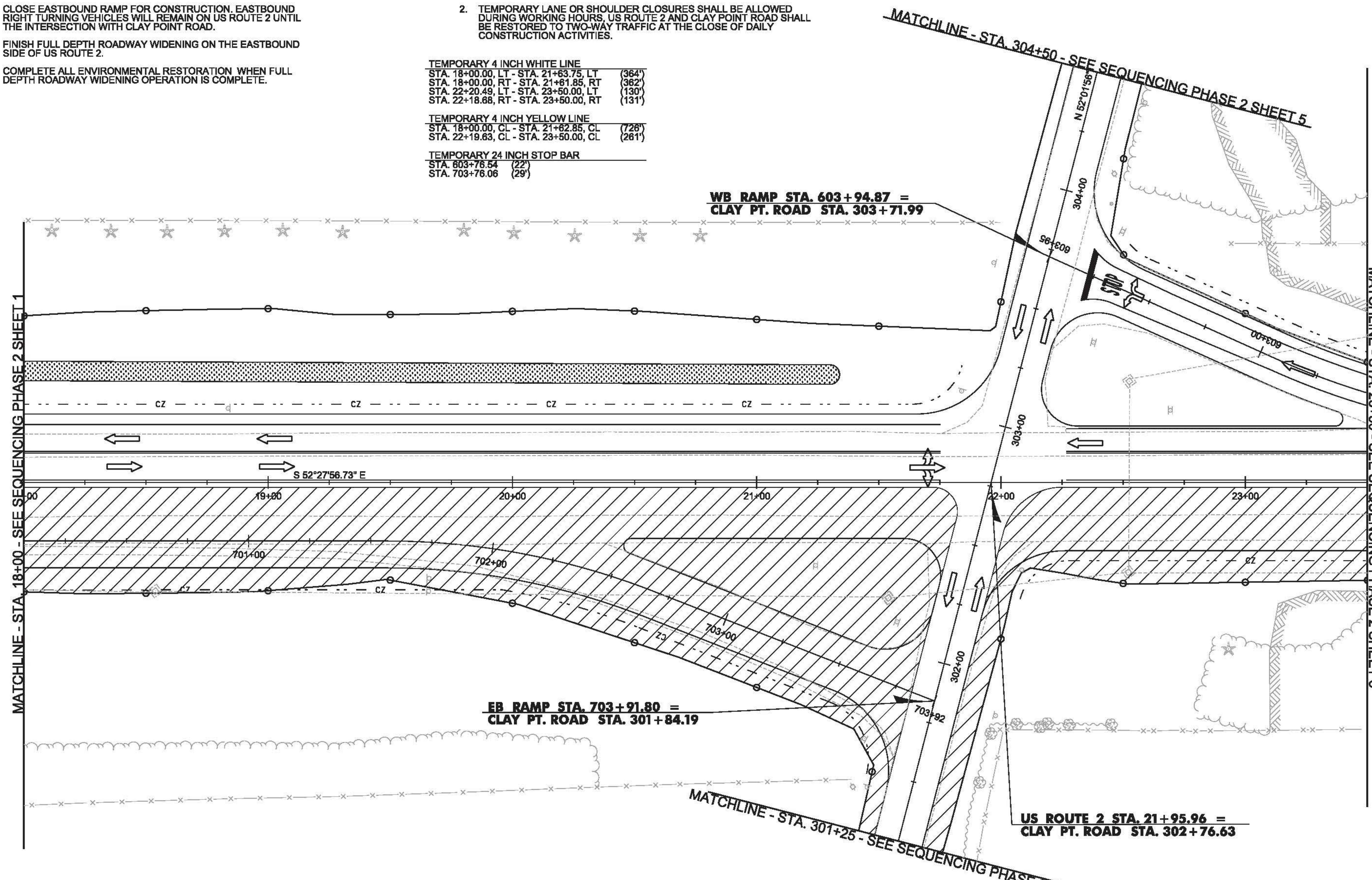
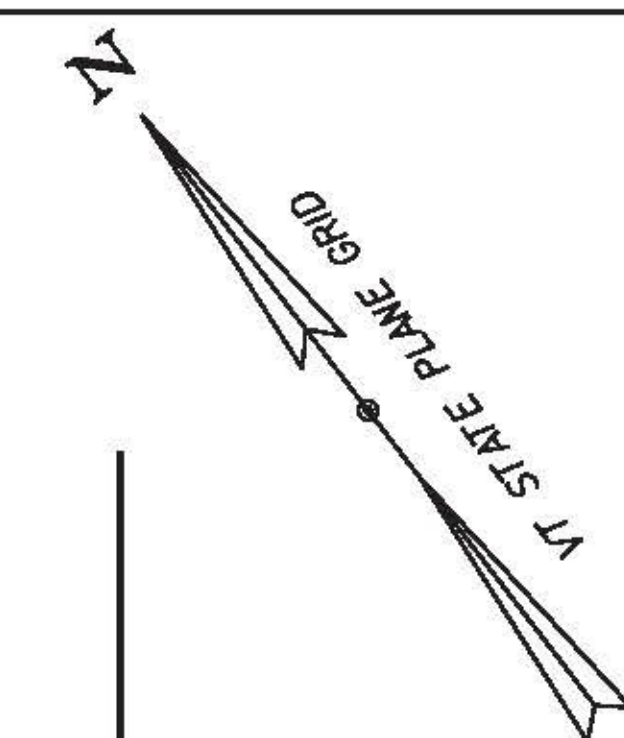
**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

**TEMPORARY 4 INCH WHITE LINE**  
 STA. 18+00.00, LT - STA. 21+63.75, LT (364')  
 STA. 18+00.00, RT - STA. 21+61.85, RT (362')  
 STA. 22+20.49, LT - STA. 23+50.00, LT (130')  
 STA. 22+18.68, RT - STA. 23+50.00, RT (131')

**TEMPORARY 4 INCH YELLOW LINE**  
 STA. 18+00.00, CL - STA. 21+62.85, CL (726')  
 STA. 22+19.63, CL - STA. 23+50.00, CL (281')

**TEMPORARY 24 INCH STOP BAR**  
 STA. 603+76.54 (22')  
 STA. 703+76.06 (29')



MATCHLINE - STA. 18+00 - SEE SEQUENCING PHASE 2 SHEET 1

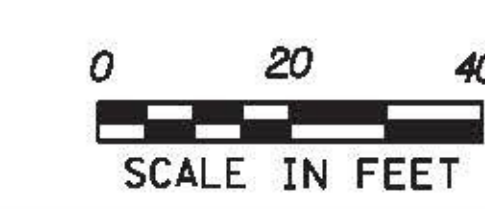
MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 2 SHEET 3

MATCHLINE - STA. 304+50 - SEE SEQUENCING PHASE 2 SHEET 5

MATCHLINE - STA. 301+25 - SEE SEQUENCING PHASE 2 SHEET 5

**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-(K28)	
FILE NAME: i13b028+cp.dgn	PLOT DATE: 12/15/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CONSTRUCTION SEQUENCING PHASE 2 SHEET 2 SHEET 78 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

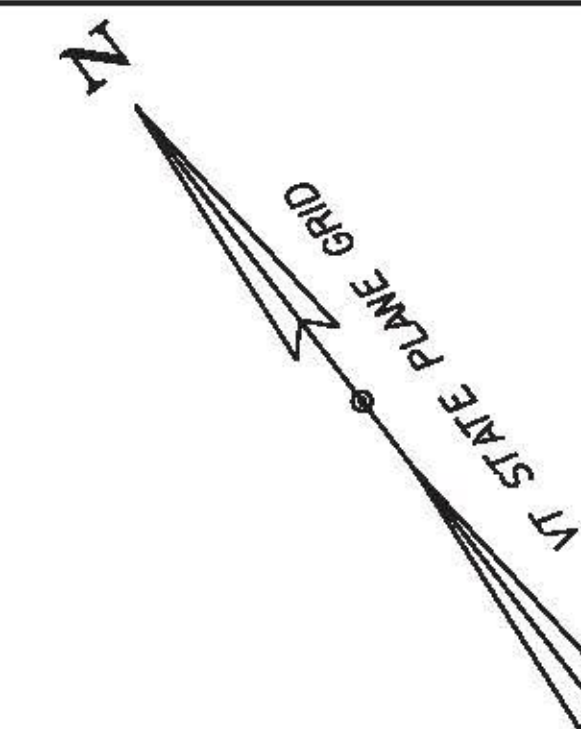
1. SHIFT TRAFFIC TO THE US ROUTE 2 WESTBOUND HALF OF THE ROAD.
2. CLOSE EASTBOUND RAMP FOR CONSTRUCTION. EASTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 23+50.00, LT - STA. 28+75.00, LT (525')  
 STA. 23+50.00, RT - STA. 28+75.00, RT (525')

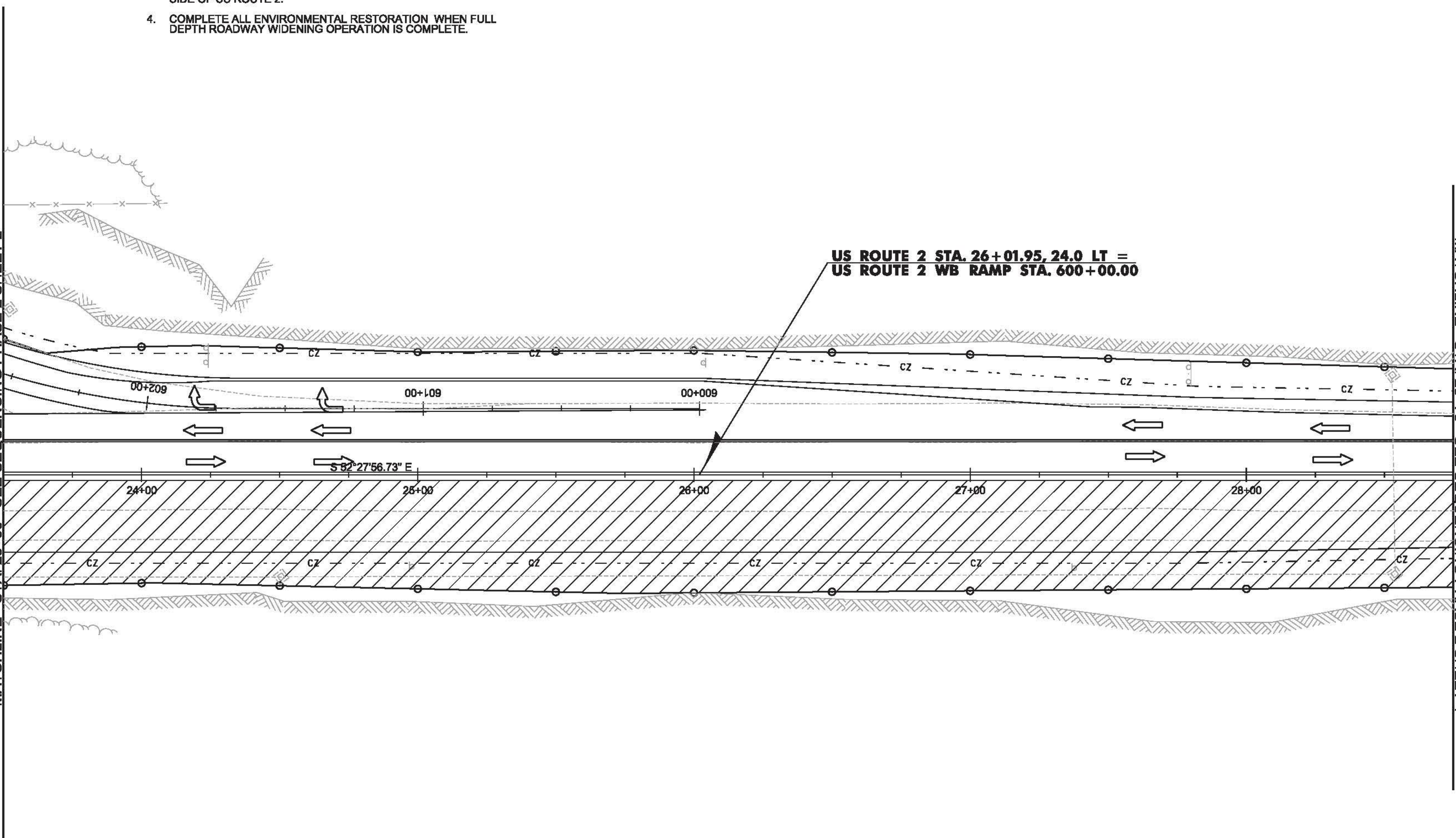
TEMPORARY 4 INCH YELLOW LINE  
 STA. 23+50.00, CL - STA. 28+75.00, CL (1050')



MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 2 SHEET 2

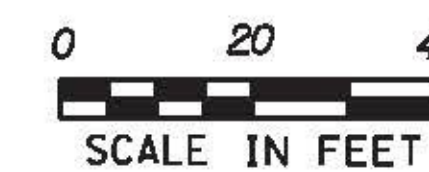
MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 2 SHEET 4

**US ROUTE 2 STA. 26+01.95, 24.0 LT =  
 US ROUTE 2 WB RAMP STA. 600+00.00**



**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER  
 PROJECT NUMBER: HES 028-I(28)

FILE NAME: t13b028+cp.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 CONSTRUCTION SEQUENCING PHASE 2 SHEET 3 SHEET 79 OF 91

PLOT DATE: 12/15/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. LACROIX

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

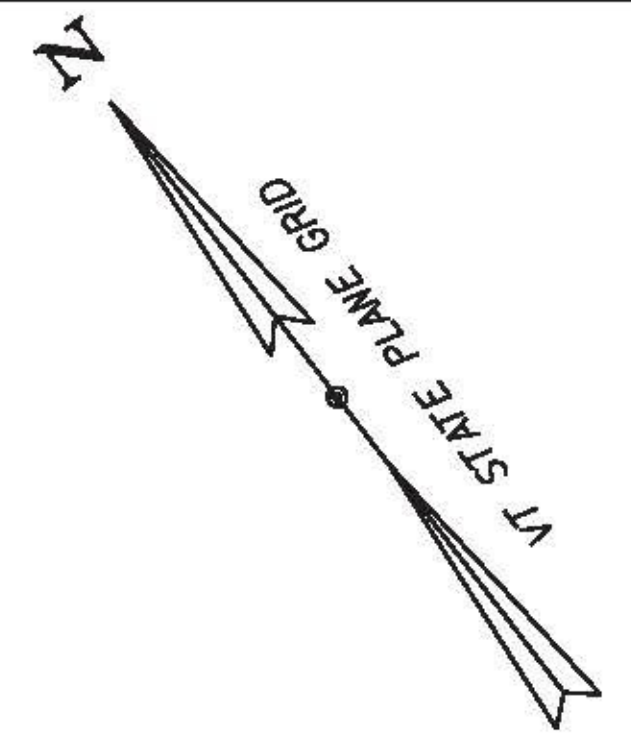
1. SHIFT TRAFFIC TO THE US ROUTE 2 WESTBOUND HALF OF THE ROAD.
2. CLOSE EASTBOUND RAMP FOR CONSTRUCTION. EASTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

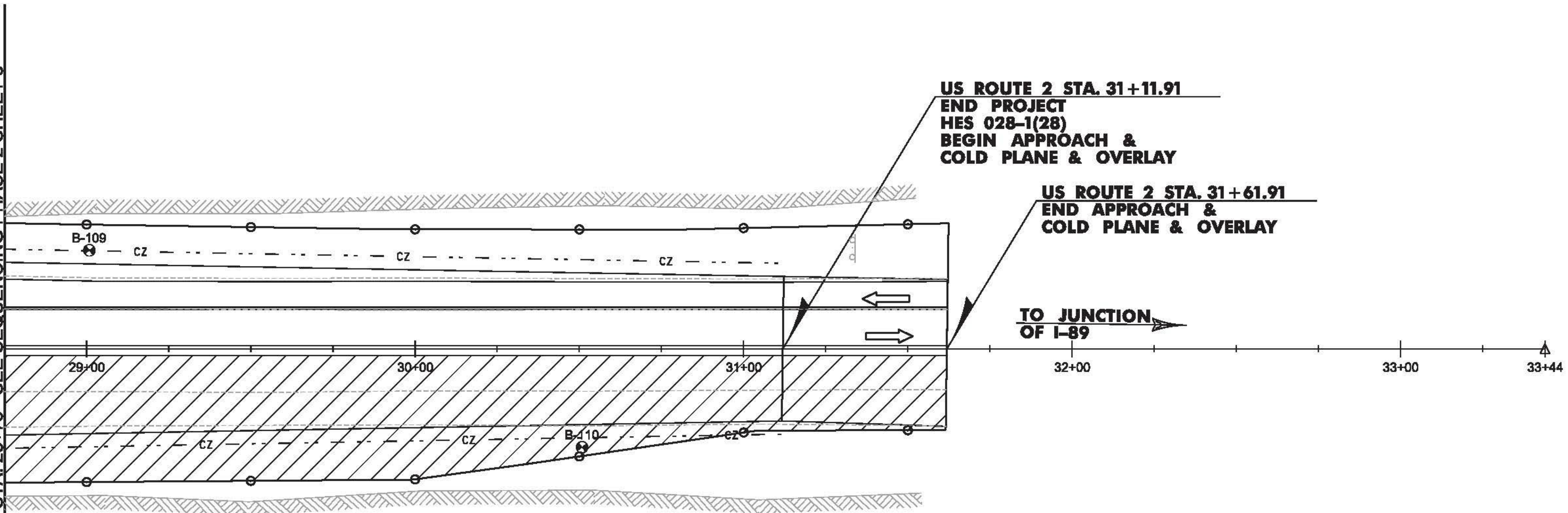
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 28+75.00, LT - STA. 31+61.91, LT (287')  
 STA. 28+75.00, RT - STA. 31+61.91, RT (287')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 28+75.00, CL - STA. 31+61.91, CL (574')

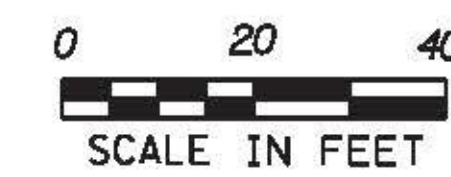


MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 2 SHEET 3



**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



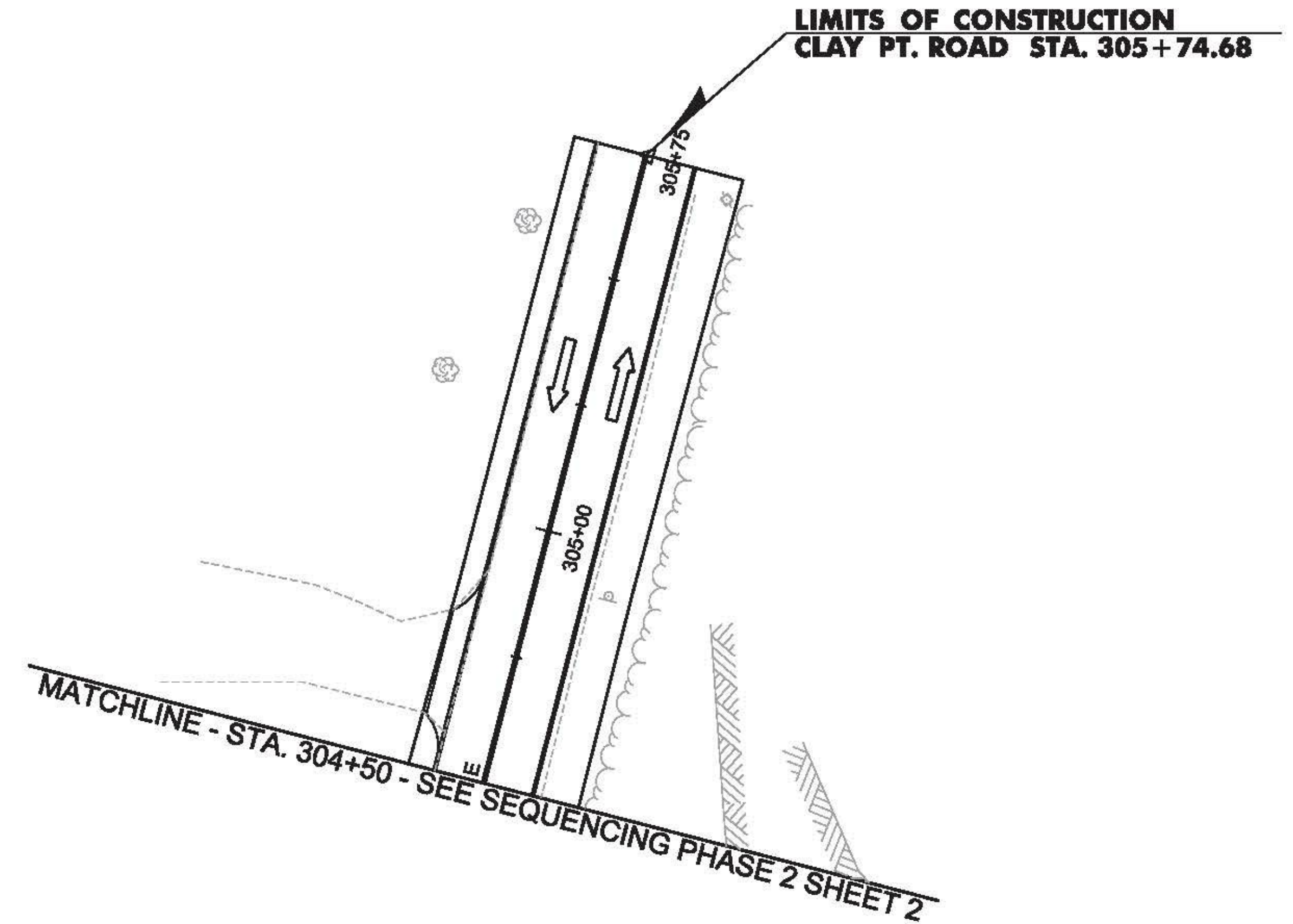
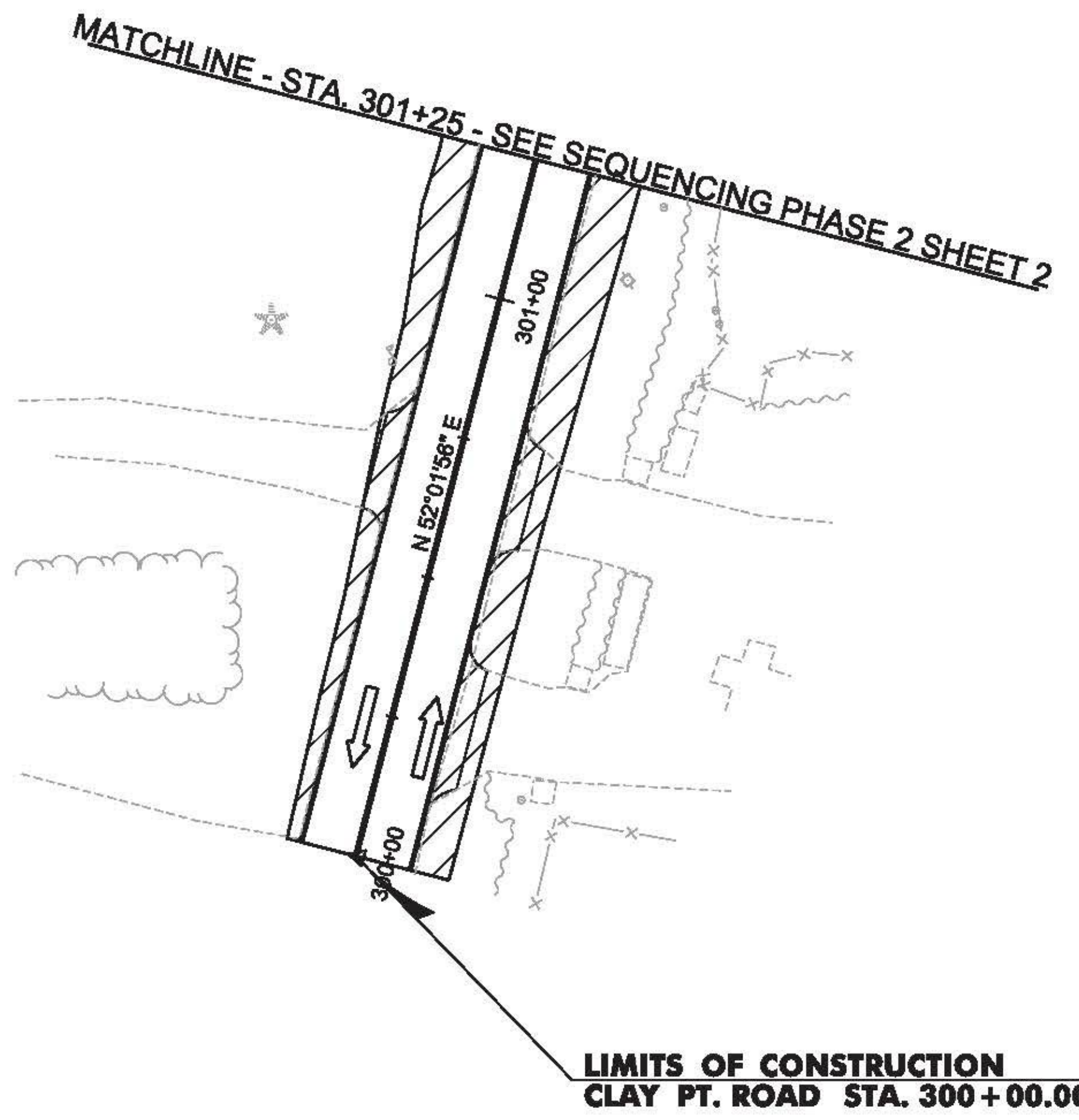
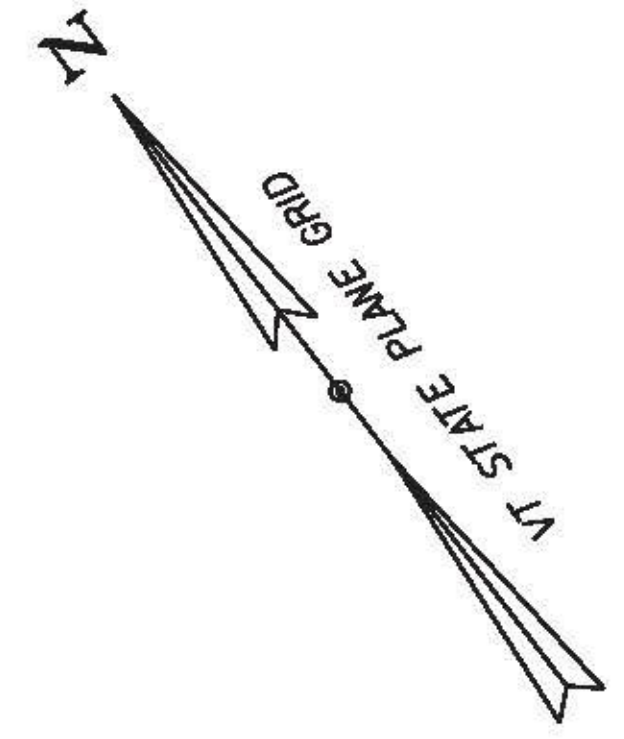
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 2 SHEET 4 SHEET 80 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

1. SHIFT TRAFFIC TO THE US ROUTE 2 WESTBOUND HALF OF THE ROAD.
2. CLOSE EASTBOUND RAMP FOR CONSTRUCTION. EASTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

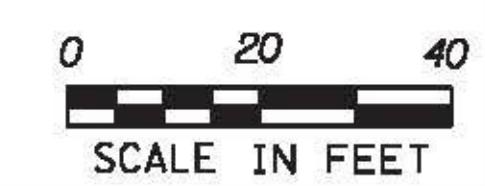
**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



**LEGEND**

	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	DESIGNED BY: M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 2 SHEET 5 SHEET 81 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

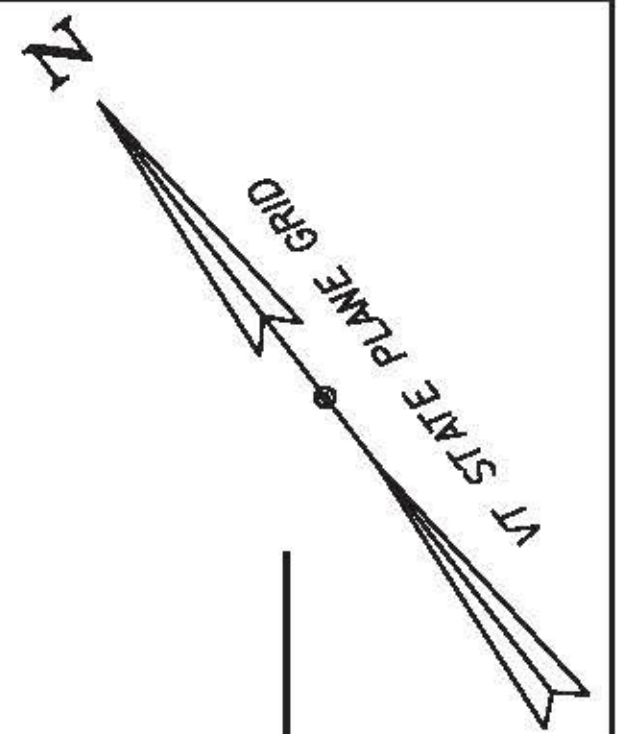
1. SHIFT TRAFFIC TO THE US ROUTE 2 EASTBOUND HALF OF THE ROAD.
2. CLOSE WESTBOUND RAMP FOR CONSTRUCTION. WESTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. CONSTRUCTION GRASS CHANNEL ON THE NORTHWEST SIDE OF US ROUTE 2.
5. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

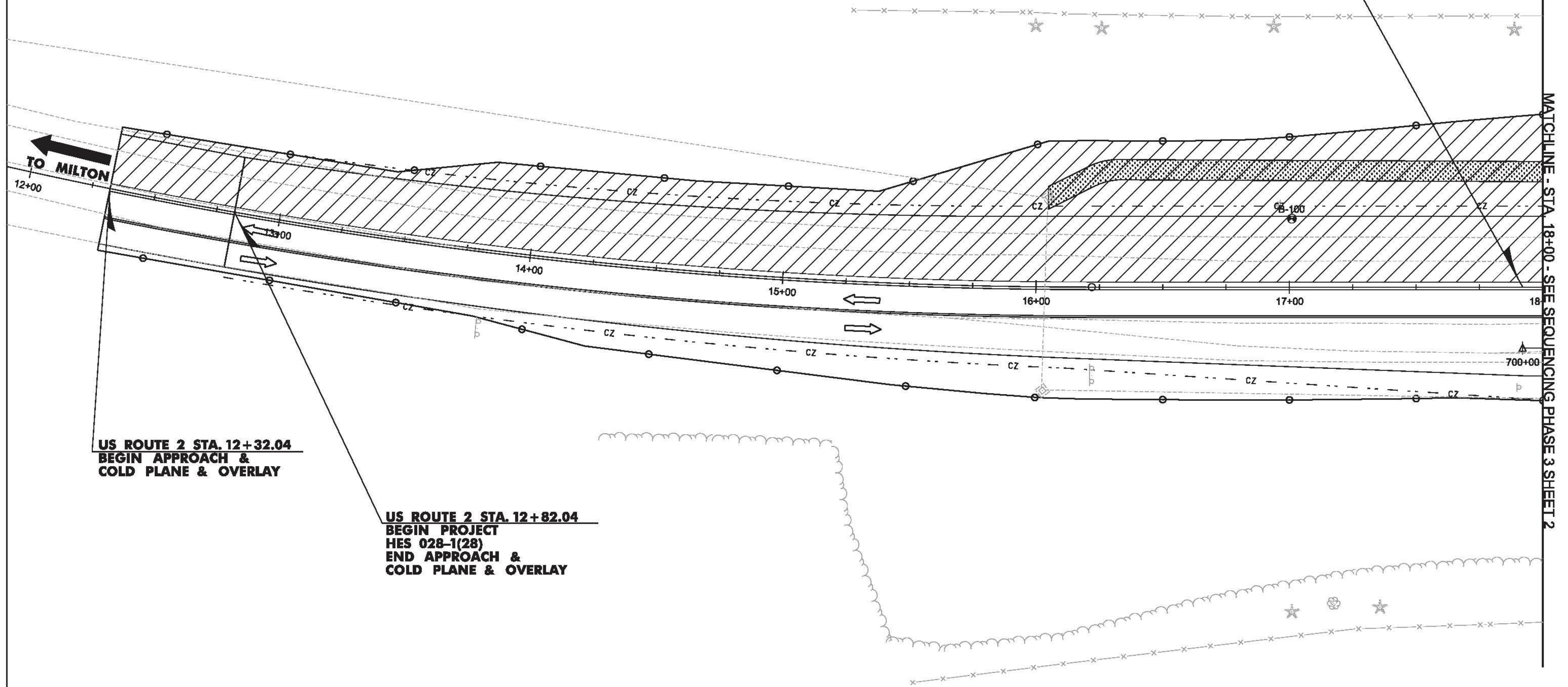
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

TEMPORARY 4 INCH WHITE LINE  
 STA. 12+32.04, LT - STA. 18+00.00, LT (568')  
 STA. 12+32.04, RT - STA. 18+00.00, RT (568')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 12+32.04, CL - STA. 18+00.00, CL (1136')



**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
 US ROUTE 2 EB RAMP STA. 700+00.00**



**LEGEND**

	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC

PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	DESIGNED BY: M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 3 SHEET 1 SHEET 82 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

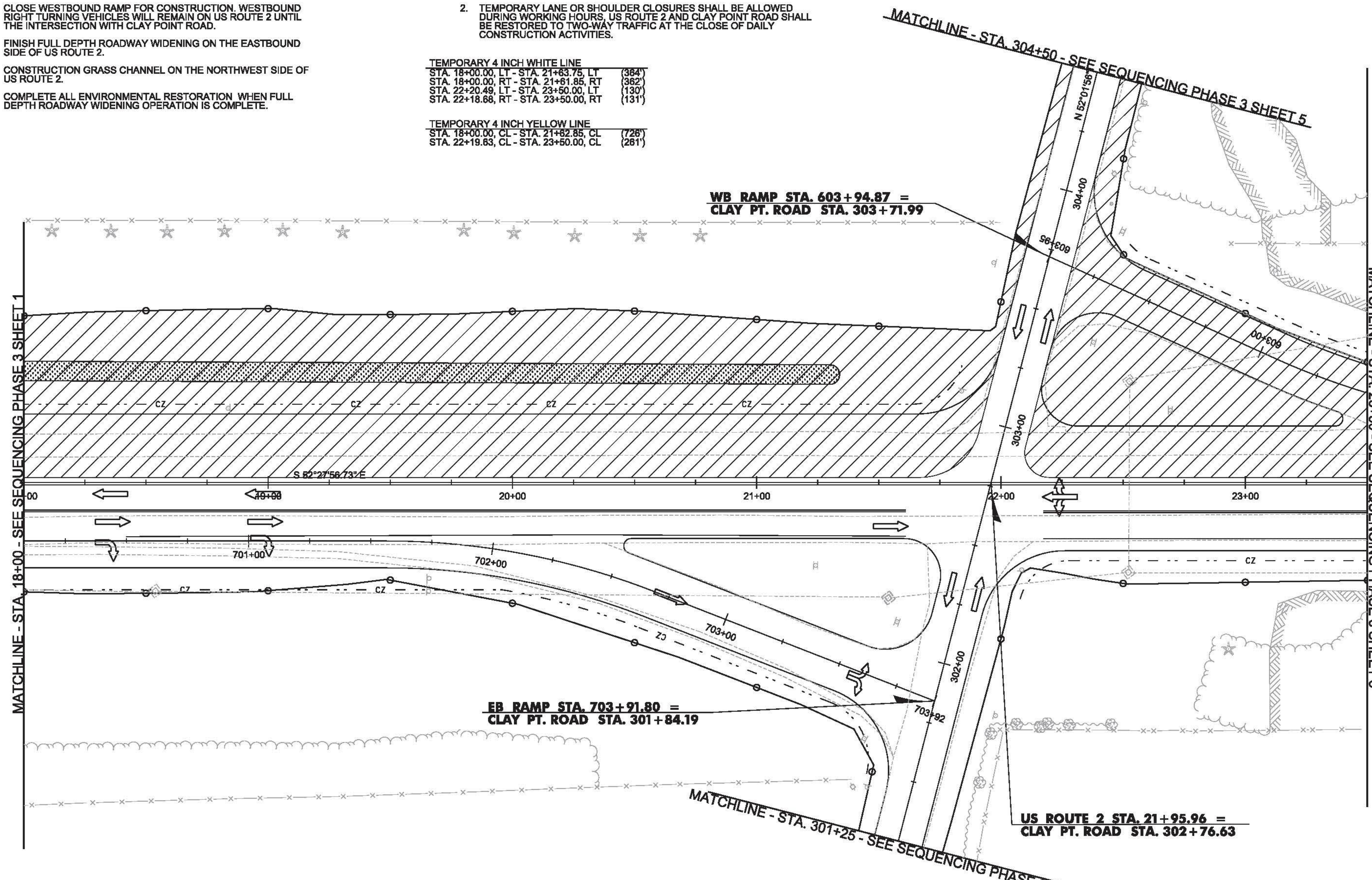
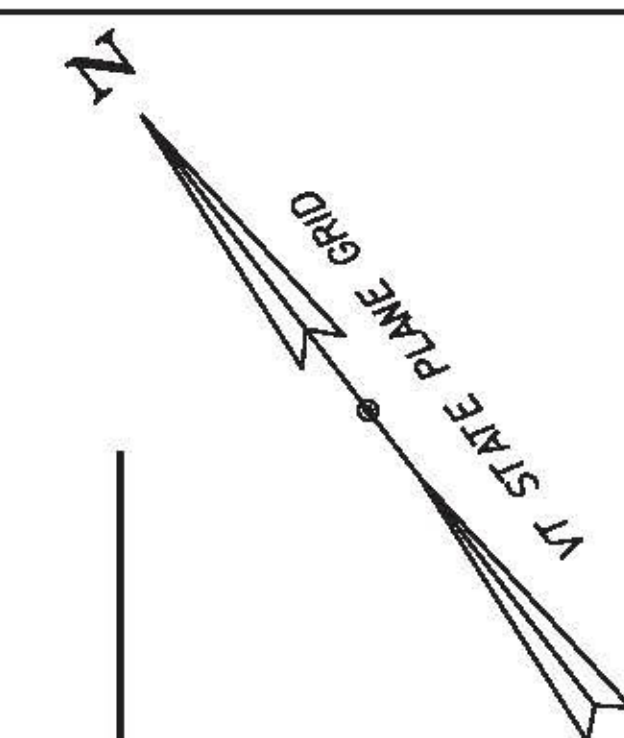
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2. CLOSE WESTBOUND RAMP FOR CONSTRUCTION. WESTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
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**NOTES:**

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**TEMPORARY 4 INCH WHITE LINE**  
 STA. 18+00.00, LT - STA. 21+83.75, LT (384')  
 STA. 18+00.00, RT - STA. 21+81.85, RT (382')  
 STA. 22+20.49, LT - STA. 23+50.00, LT (130')  
 STA. 22+18.68, RT - STA. 23+50.00, RT (131')

**TEMPORARY 4 INCH YELLOW LINE**  
 STA. 18+00.00, CL - STA. 21+82.85, CL (728')  
 STA. 22+19.63, CL - STA. 23+50.00, CL (281')



MATCHLINE - STA. 18+00 - SEE SEQUENCING PHASE 3 SHEET 1

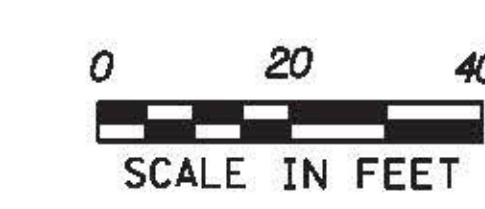
MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 3 SHEET 3

MATCHLINE - STA. 304+50 - SEE SEQUENCING PHASE 3 SHEET 5

MATCHLINE - STA. 301+25 - SEE SEQUENCING PHASE 3 SHEET 5

**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-(K28)	
FILE NAME: i13b028+cp.dgn	PLOT DATE: 12/15/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CONSTRUCTION SEQUENCING PHASE 3 SHEET 2 SHEET 83 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

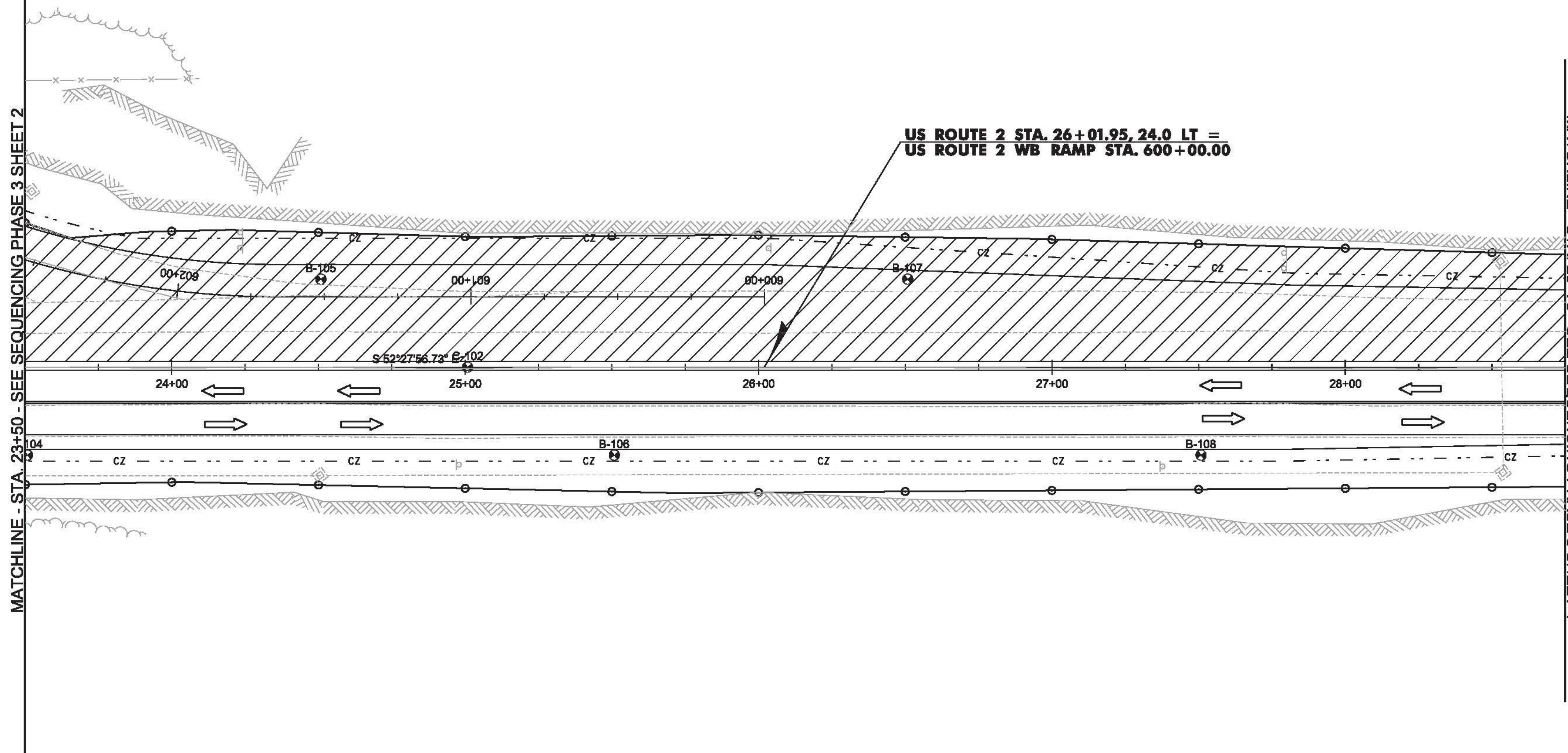
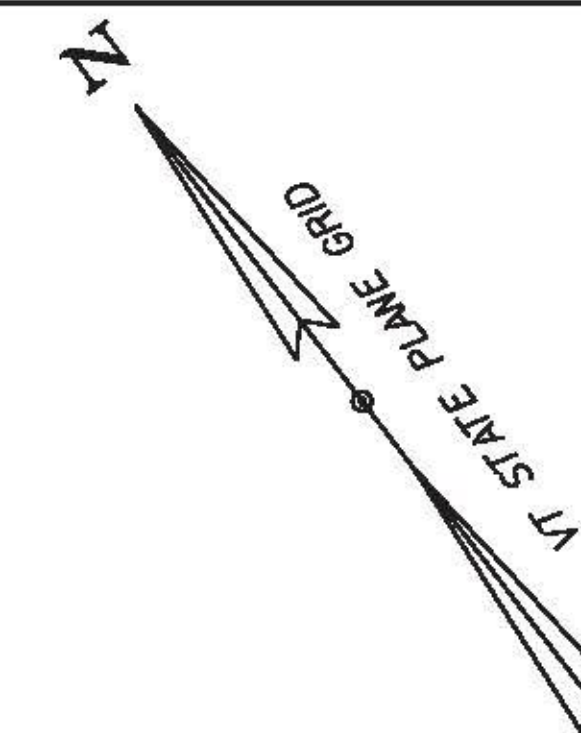
1. SHIFT TRAFFIC TO THE US ROUTE 2 EASTBOUND HALF OF THE ROAD.
2. CLOSE WESTBOUND RAMP FOR CONSTRUCTION. WESTBOUND RIGHT TURNING VEHICLES WILL REMAIN ON US ROUTE 2 UNTIL THE INTERSECTION WITH CLAY POINT ROAD.
3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. CONSTRUCTION GRASS CHANNEL ON THE NORTHWEST SIDE OF US ROUTE 2.
5. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

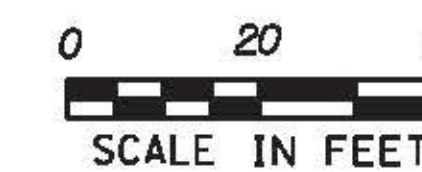
TEMPORARY 4 INCH WHITE LINE  
 STA. 23+50.00, LT - STA. 28+75.00, LT (525')  
 STA. 23+50.00, RT - STA. 28+75.00, RT (525')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 23+50.00, CL - STA. 28+75.00, CL (1050')



**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
CONSTRUCTION SEQUENCING PHASE 3 SHEET 3SHEET	84 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

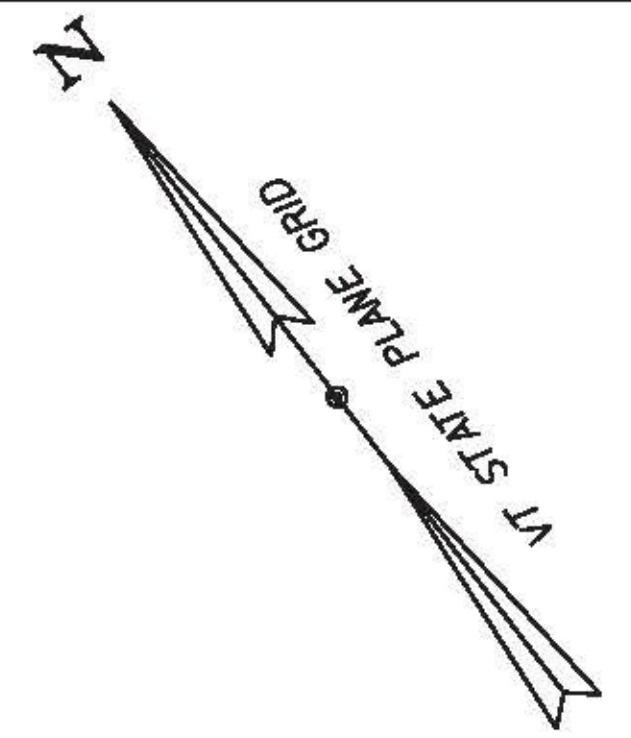
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3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
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5. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

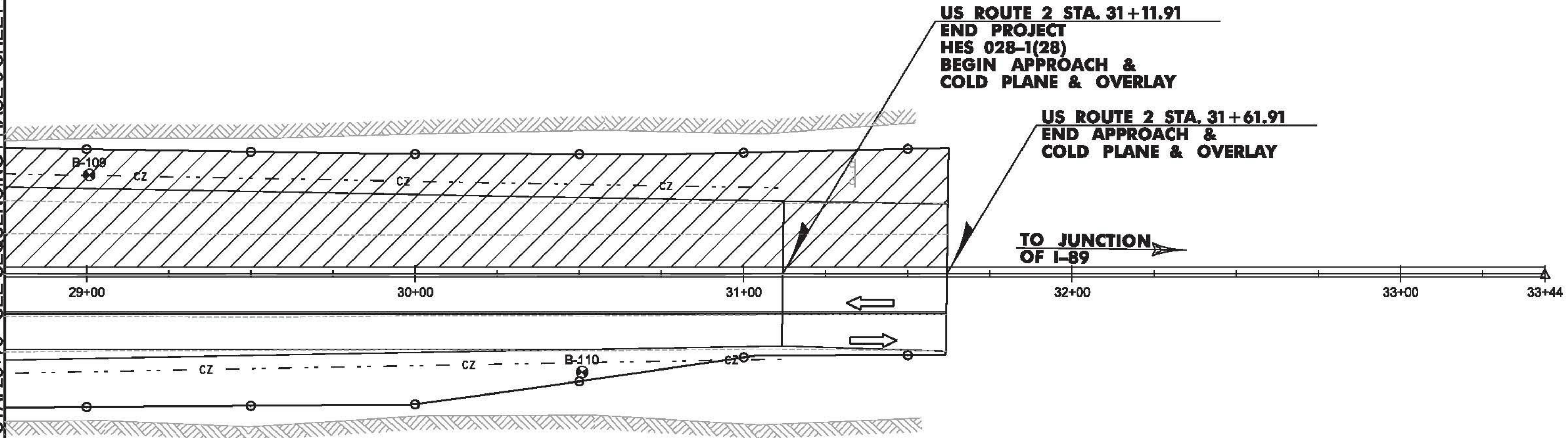
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TEMPORARY 4 INCH WHITE LINE  
 STA. 28+75.00, LT - STA. 31+61.91, LT (287')  
 STA. 28+75.00, RT - STA. 31+61.91, RT (287')

TEMPORARY 4 INCH YELLOW LINE  
 STA. 28+75.00, CL - STA. 31+61.91, CL (574')

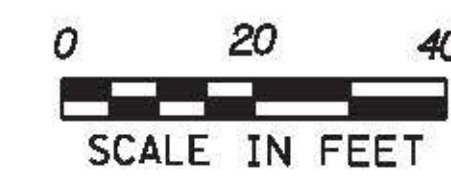


MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 3 SHEET 3



**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



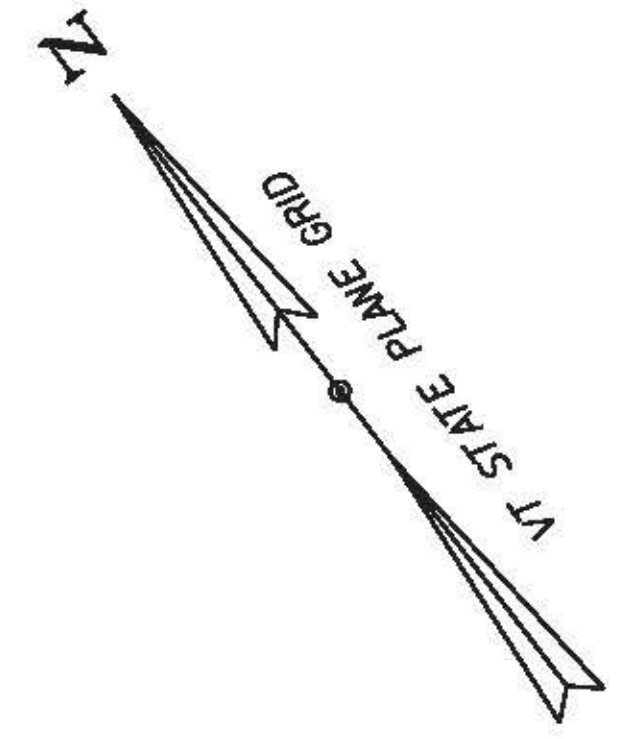
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 3 SHEET 4 SHEET 85 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

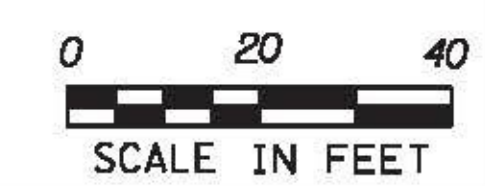
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3. FINISH FULL DEPTH ROADWAY WIDENING ON THE EASTBOUND SIDE OF US ROUTE 2.
4. CONSTRUCTION GRASS CHANNEL ON THE NORTHWEST SIDE OF US ROUTE 2.
5. COMPLETE ALL ENVIRONMENTAL RESTORATION WHEN FULL DEPTH ROADWAY WIDENING OPERATION IS COMPLETE.

**NOTES:**

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2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



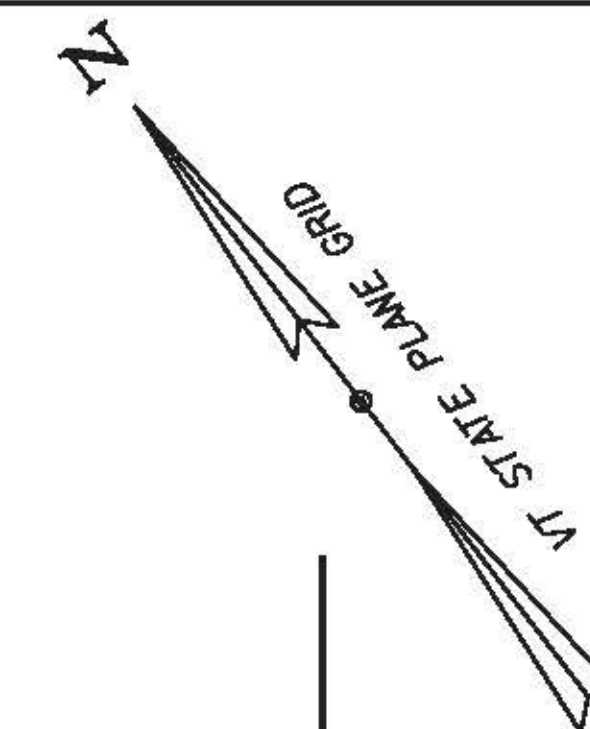
LEGEND	
	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



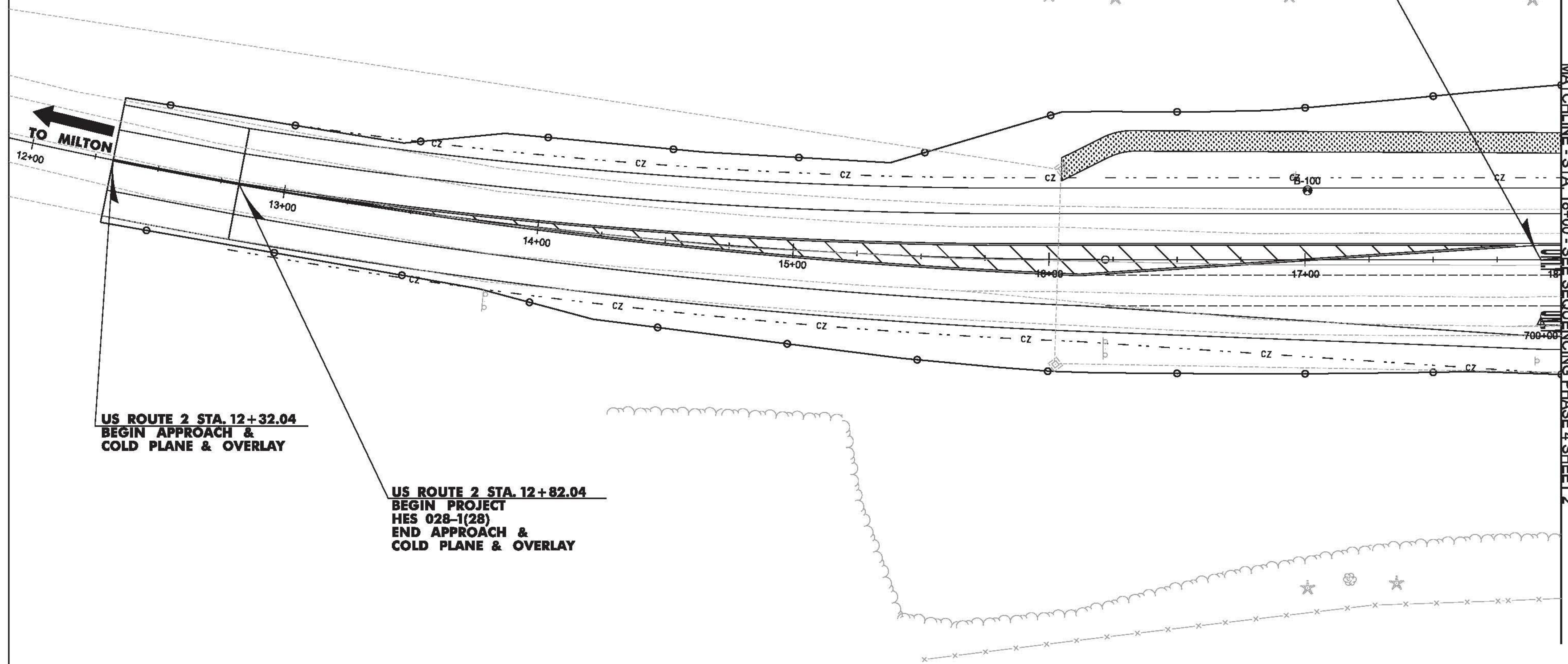
PROJECT NAME:	COLCHESTER
PROJECT NUMBER:	HES 028-I(28)
FILE NAME:	t13b028+cp.dgn
PROJECT LEADER:	P. COBURN
DESIGNED BY:	M. BOGACZYK
CONSTRUCTION SEQUENCING PHASE 3 SHEET	5 SHEET
PLOT DATE:	12/15/2015
DRAWN BY:	M. BOGACZYK
CHECKED BY:	M. LACROIX
	86 OF 91

**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



**US ROUTE 2 STA. 17+92.04, 24.0' RT =  
US ROUTE 2 EB RAMP STA. 700+00.00**





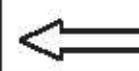
**TO MILTON**

**US ROUTE 2 STA. 12+32.04  
BEGIN APPROACH &  
COLD PLANE & OVERLAY**

**US ROUTE 2 STA. 12+82.04  
BEGIN PROJECT  
HES 028-1(28)  
END APPROACH &  
COLD PLANE & OVERLAY**

**MATCHLINE - STA. 18+00 - SEE SEQUENCING PHASE 4 SHEET 2**

**LEGEND**

-  CONSTRUCTION AREA
-  REFLECTORIZED PLASTIC DRUM
-  FLOW OF TRAFFIC



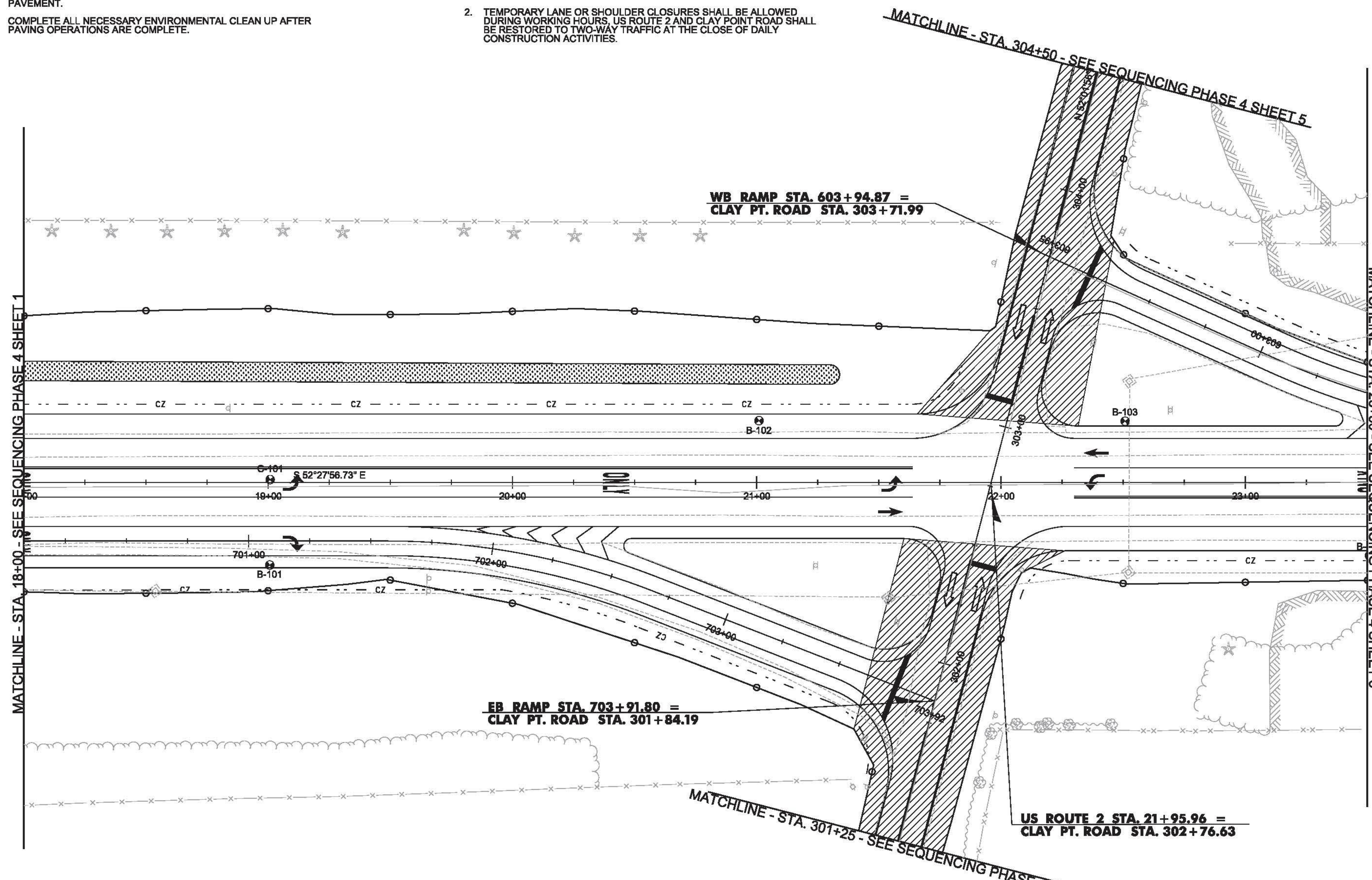
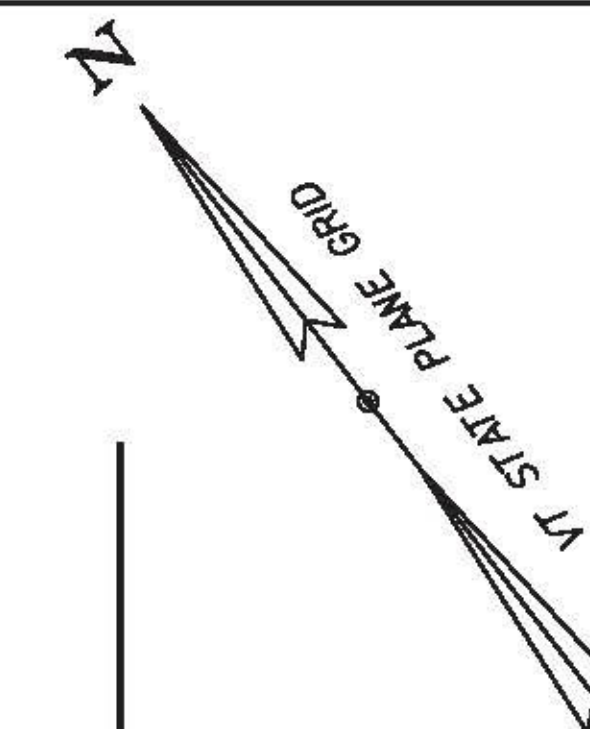
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-1(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 4 SHEET 1 SHEET 87 OF 91

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**

1. COLD PLANE CLAY POINT ROAD IN PREPERATION FOR 2 INCH OVERLAY OF NEW SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
2. COMPLETE ALL NECESSARY ENVIRONMENTAL CLEAN UP AFTER PAVING OPERATIONS ARE COMPLETE.

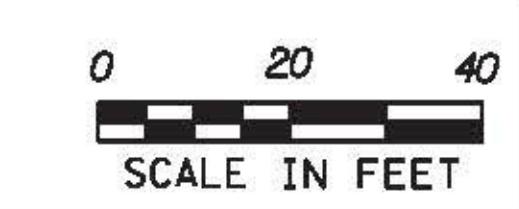
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**LEGEND**

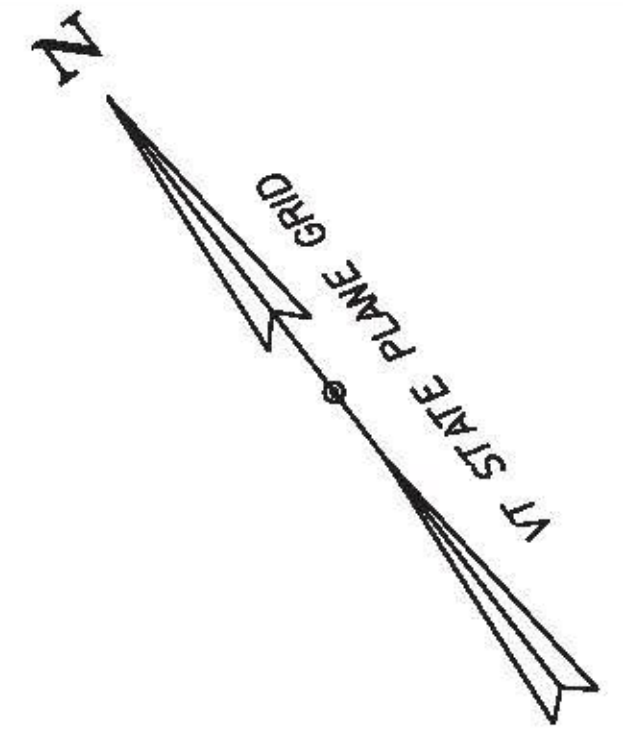
- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-(K28)	DRAWN BY: M. BOGACZYK
FILE NAME: i13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 4 SHEET 2 SHEET 88 OF 91

**NOTES:**

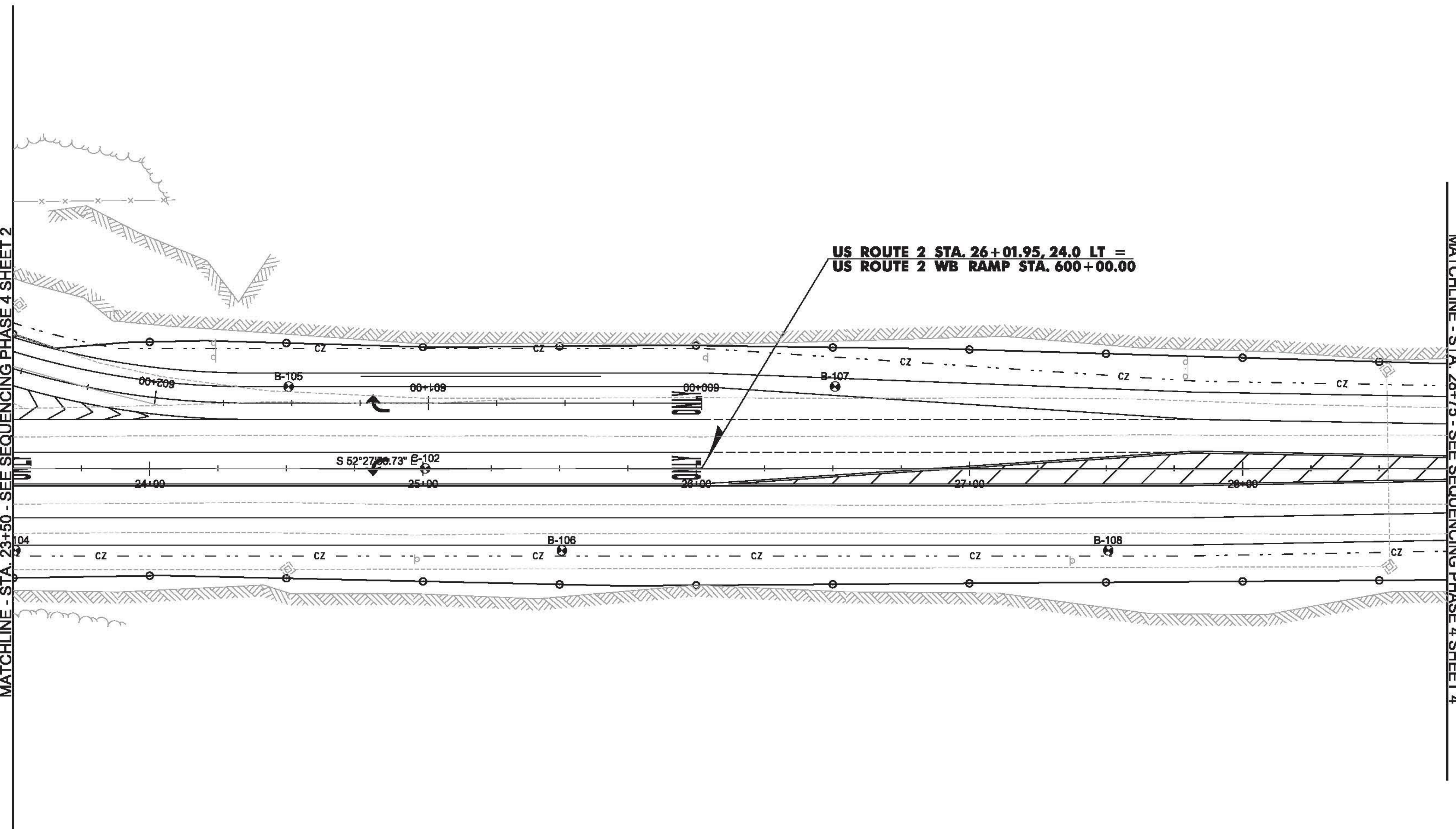
1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



MATCHLINE - STA. 23+50 - SEE SEQUENCING PHASE 4 SHEET 2

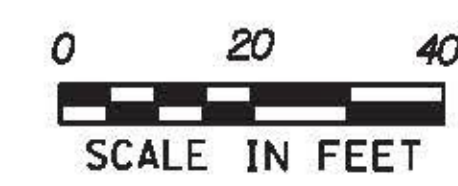
MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 4 SHEET 4

**US ROUTE 2 STA. 26+01.95, 24.0 LT =  
US ROUTE 2 WB RAMP STA. 600+00.00**



**LEGEND**

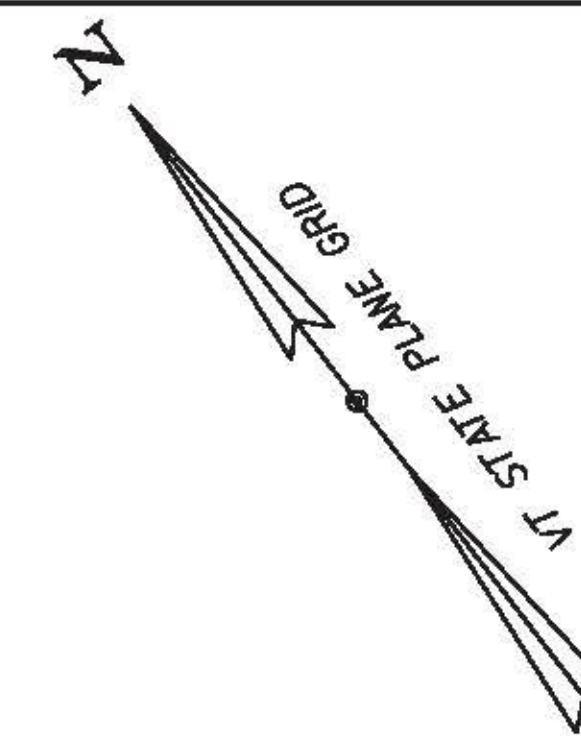
- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



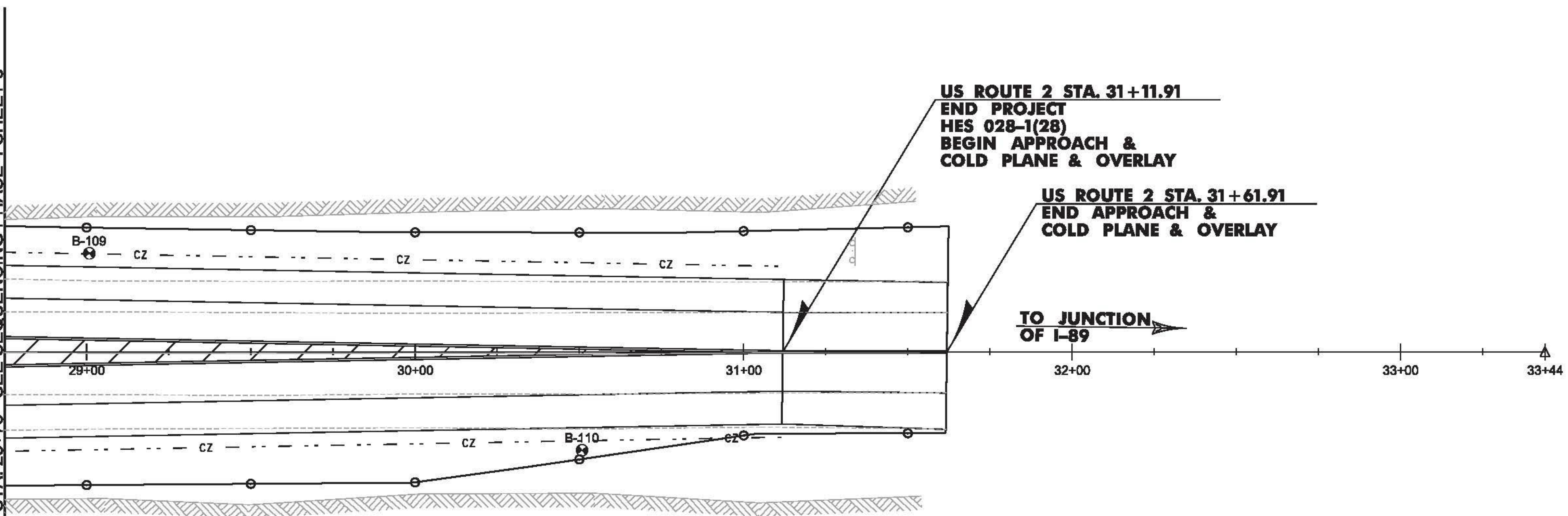
PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 4 SHEET 3 SHEET 89 OF 91

NOTES:

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
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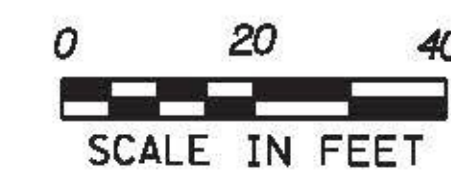


MATCHLINE - STA. 28+75 - SEE SEQUENCING PHASE 4 SHEET 3



**LEGEND**

- CONSTRUCTION AREA
- REFLECTORIZED PLASTIC DRUM
- FLOW OF TRAFFIC



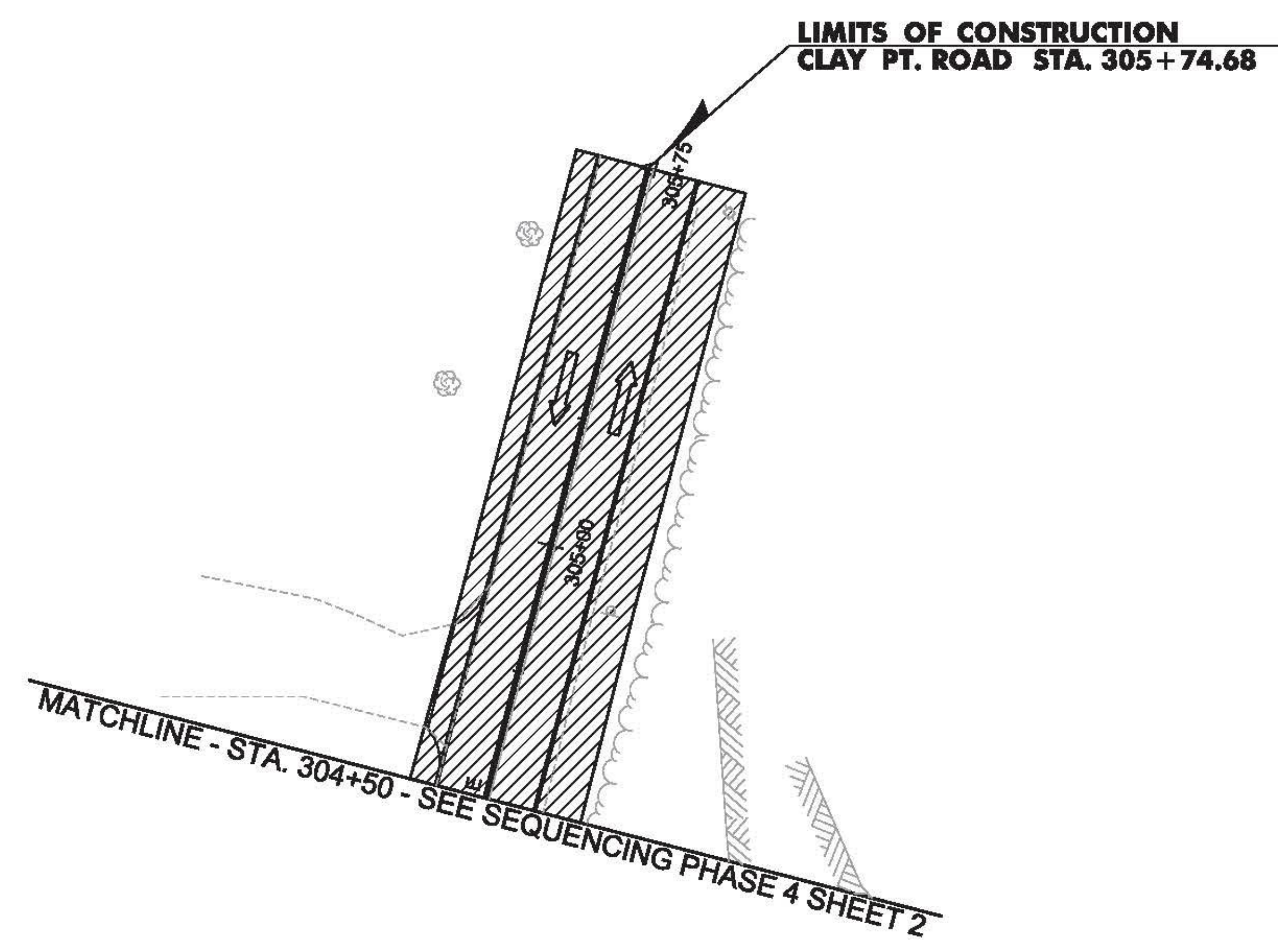
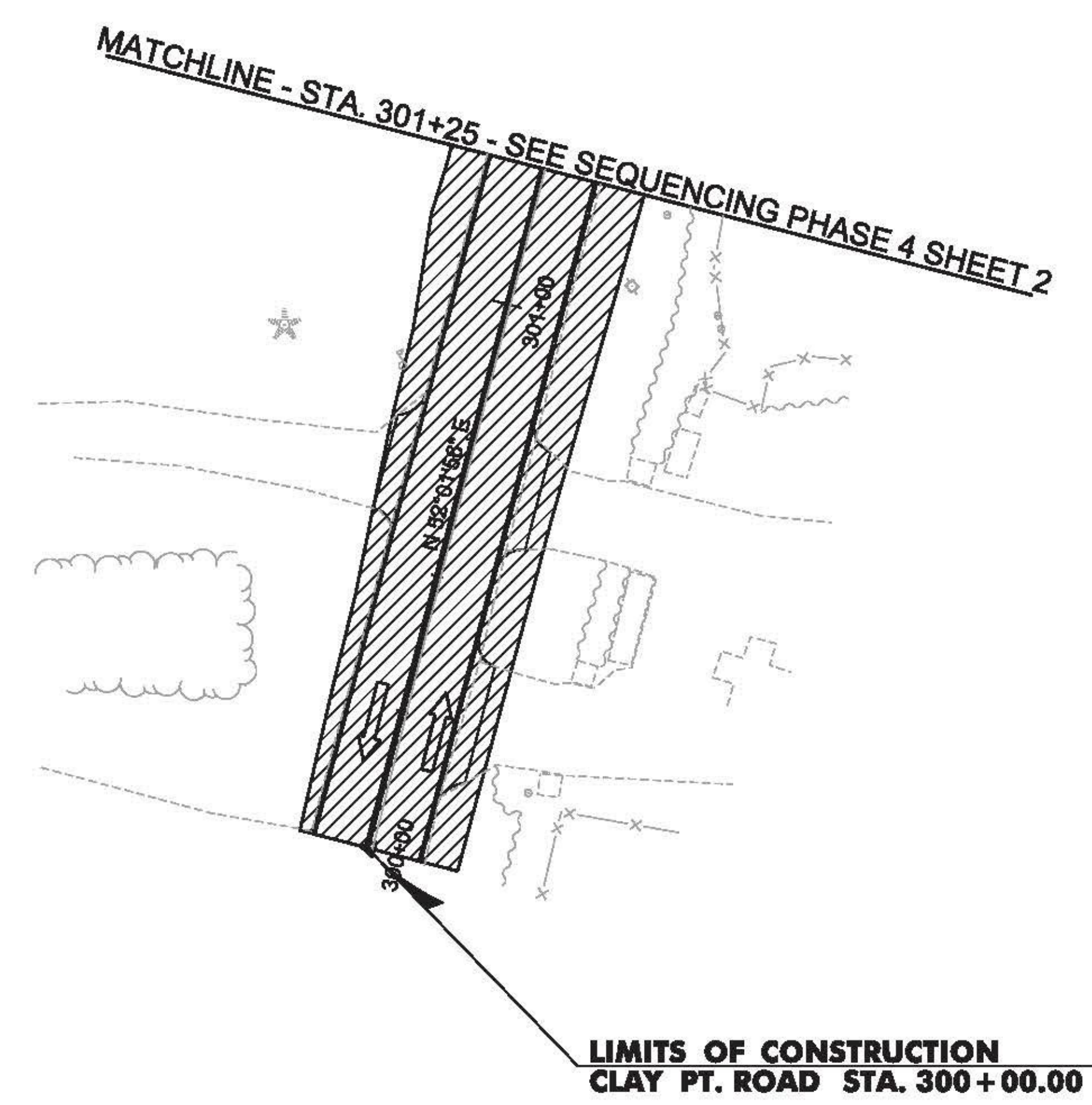
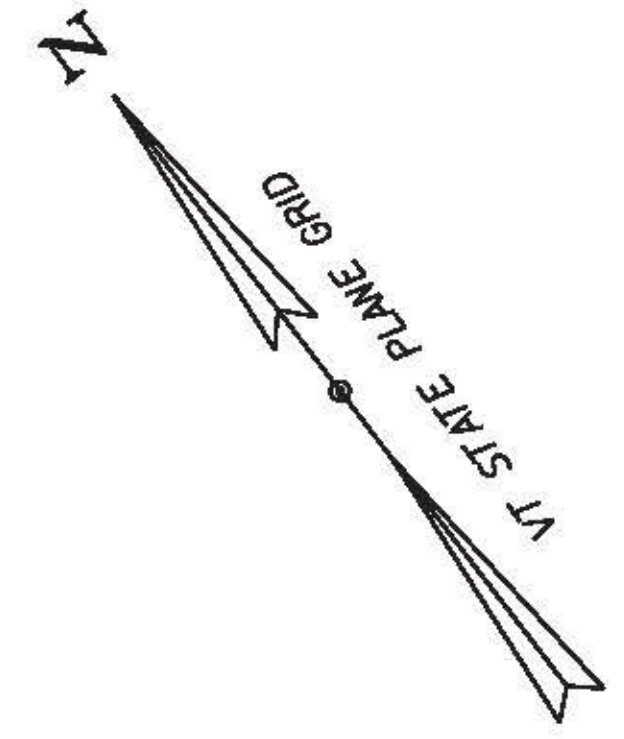
PROJECT NAME: COLCHESTER	
PROJECT NUMBER: HES 028-1(28)	
FILE NAME: t13b028+cp.dgn	PLOT DATE: 12/15/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
CONSTRUCTION SEQUENCING PHASE 4 SHEET 4 SHEET 90 OF 91	

**POTENTIAL ACTIVITIES ASSOCIATED WITH CONSTRUCTION PHASING**



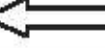
1. COLD PLANE CLAY POINT ROAD IN PREPERATION FOR 2 INCH OVERLAY OF NEW SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
2. COMPLETE ALL NECESSARY ENVIRONMENTAL CLEAN UP AFTER PAVING OPERATIONS ARE COMPLETE.

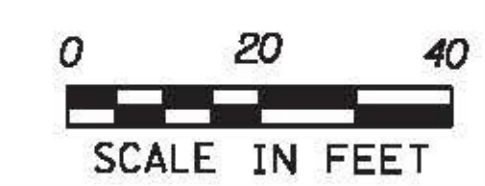
**NOTES:**

1. FOR TRAFFIC CONTROL GENERAL NOTES, SEE TRAFFIC CONTROL GENERAL NOTES AND DETAIL SHEET.
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS, US ROUTE 2 AND CLAY POINT ROAD SHALL BE RESTORED TO TWO-WAY TRAFFIC AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.



**LEGEND**

	CONSTRUCTION AREA
	REFLECTORIZED PLASTIC DRUM
	FLOW OF TRAFFIC



PROJECT NAME: COLCHESTER	PLOT DATE: 12/15/2015
PROJECT NUMBER: HES 028-I(28)	DRAWN BY: M. BOGACZYK
FILE NAME: t13b028+cp.dgn	CHECKED BY: M. LACROIX
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PHASE 4 SHEET 5 SHEET 91 OF 91

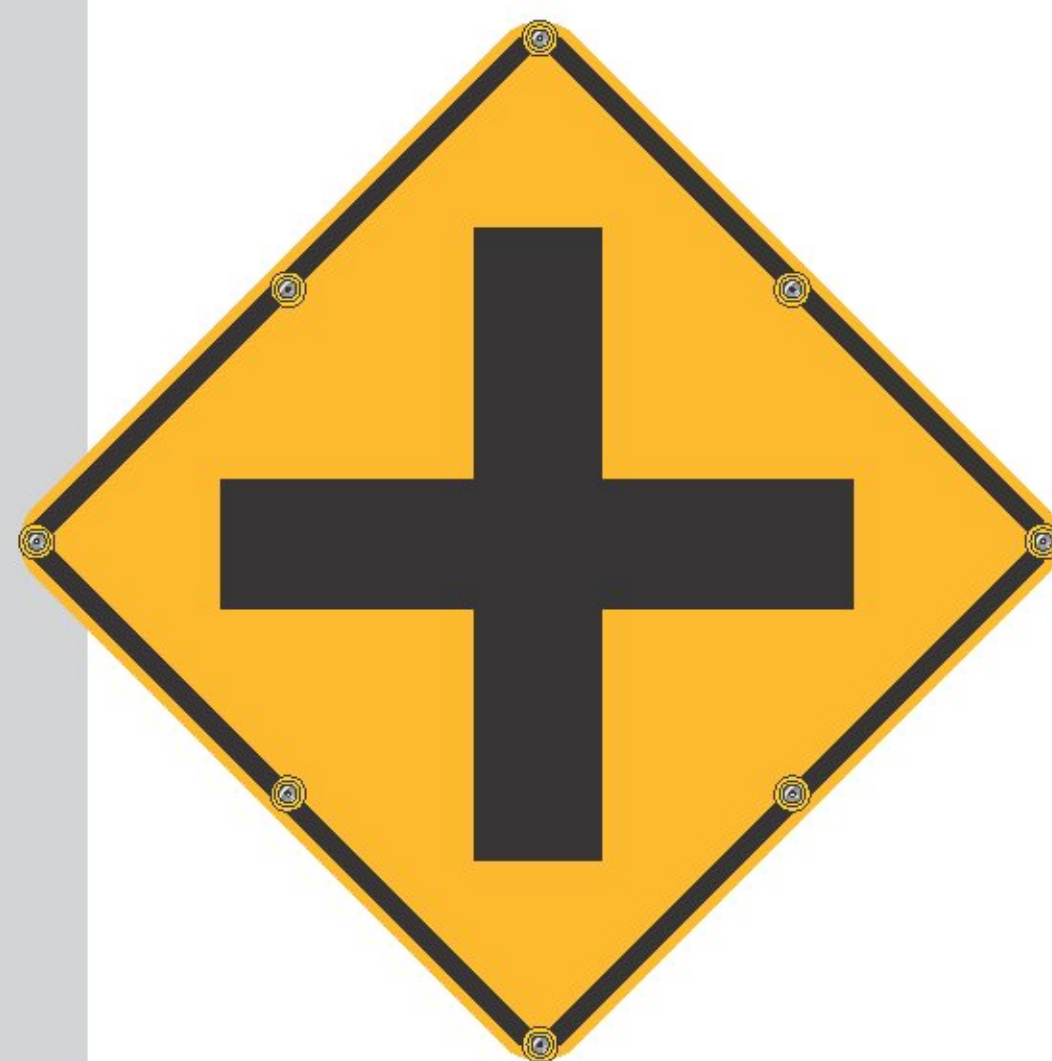
ACCEPTED

### Features

- Installs easily onto any new or existing sign post
- Can be integrated into an ITS (Intelligent Transportation System)
- High intensity Day-Viz™ LEDs command attention day and night
- Can be programmed to operate continuously (24/7) or on solar time clocks, push-buttons and/or motion (vehicle) detectors
- Proprietary circuitry automatically adjusts light output for maximum visibility and battery efficiency
- Multiple signs can be synchronized
- Heightened driver awareness
- Increased visibility at high incident intersections

### Applications

- New school zone locations
- High incident intersections
- Rural roads



PATENTS #6,943,698; #6,693,556  
OTHER PATENTS PENDING

Standard specifications (subject to change without notice)

#### Sign Specification- Custom

Sign Substrate	.080 Highway Grade Aluminum
Reflective Sheeting	3M™ DG3™- with anti-graffiti overlay
MUTCD Compliance	MUTCD Section 2A.07 Compliant
Flash Pattern	MUTCD Compliant
LED Type	High Power Luxeon- 1 watt
LED Life Expectancy	Over 100,000 hours

#### Warranty

3 year standard warranty

W2-1 SOLAR BLINKERSIGN®



1-800-236-0112 • www.tapconet.com • blinkersales@tapconet.com

Traffic and Parking Control Co, Inc. 5100 West Brown Deer Road, Brown Deer WI 53223 U.S.A. Phone 800-236-0112 FAX 800-444-0331  
www.tapconet.com Printed in the U.S.A. Copyright 2012, Traffic and Parking Control Co, Incorporated



Contract Holder  
GS-07F-5924R  
GS-07F-0234U



## Motion and presence detector

### Proven technologies

Active infrared and microwave technologies work together to provide precise presence and accurate motion detection in front of the door.

### Superior coverage

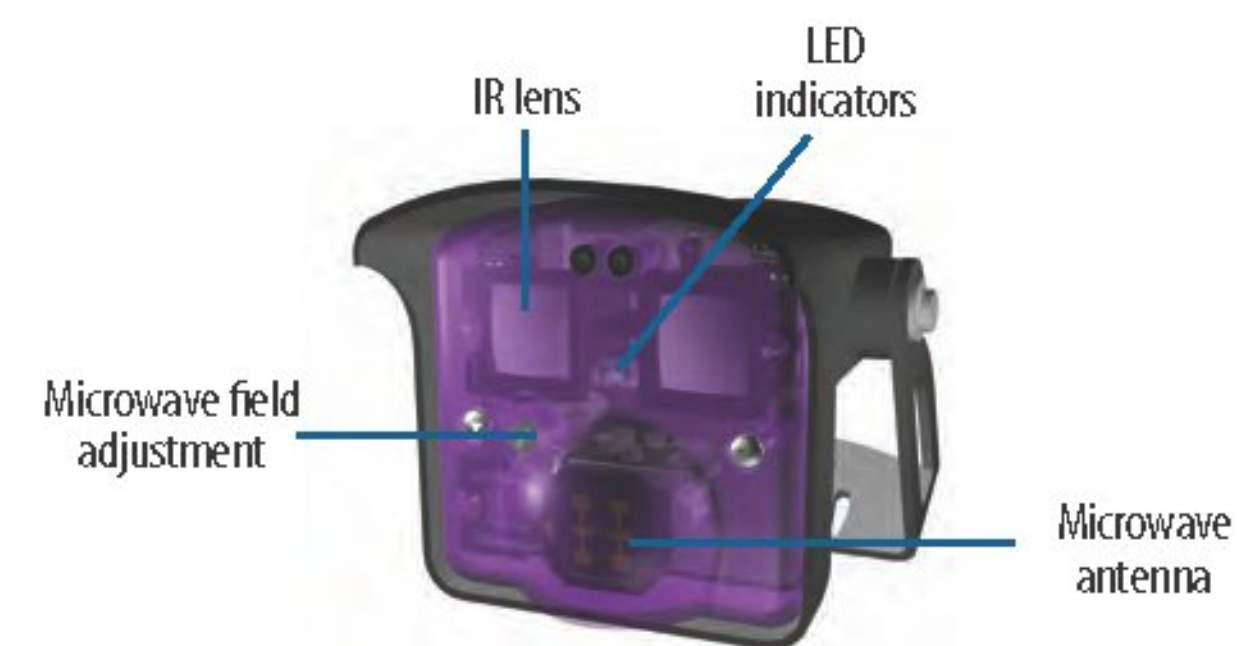
Maximum mounting height at 16 ft. Detection pattern up to 40 spots, equating to 10' x 10' coverage. The proven technology of the Falcon plus active infrared presence detection.

### Durability for tough environments

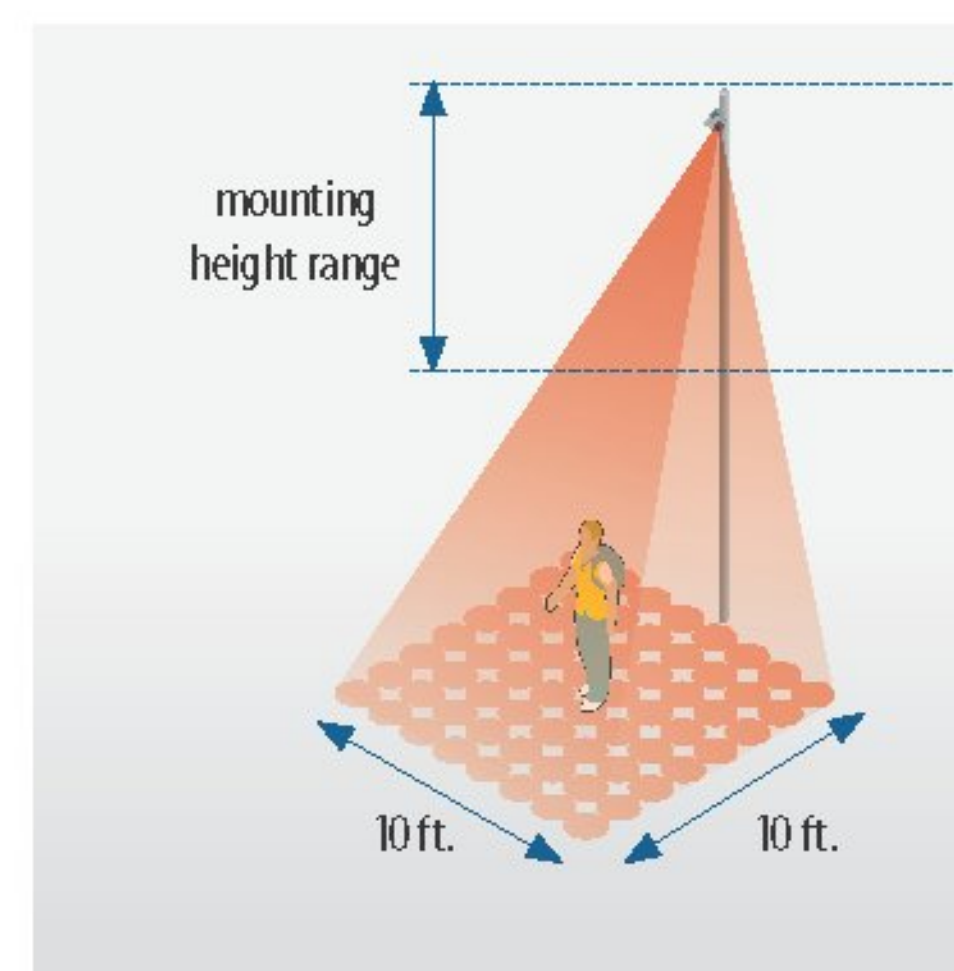
Impervious to door vibrations, light, sun and the environment; including rain and snow. The IS40 housing is rated NEMA-4.

### Minimal installation and maintenance

Replaces the labor-intensive inductive loops with an easy-to-mount overhead installation. All adjustments are executed using the BEA remote control.

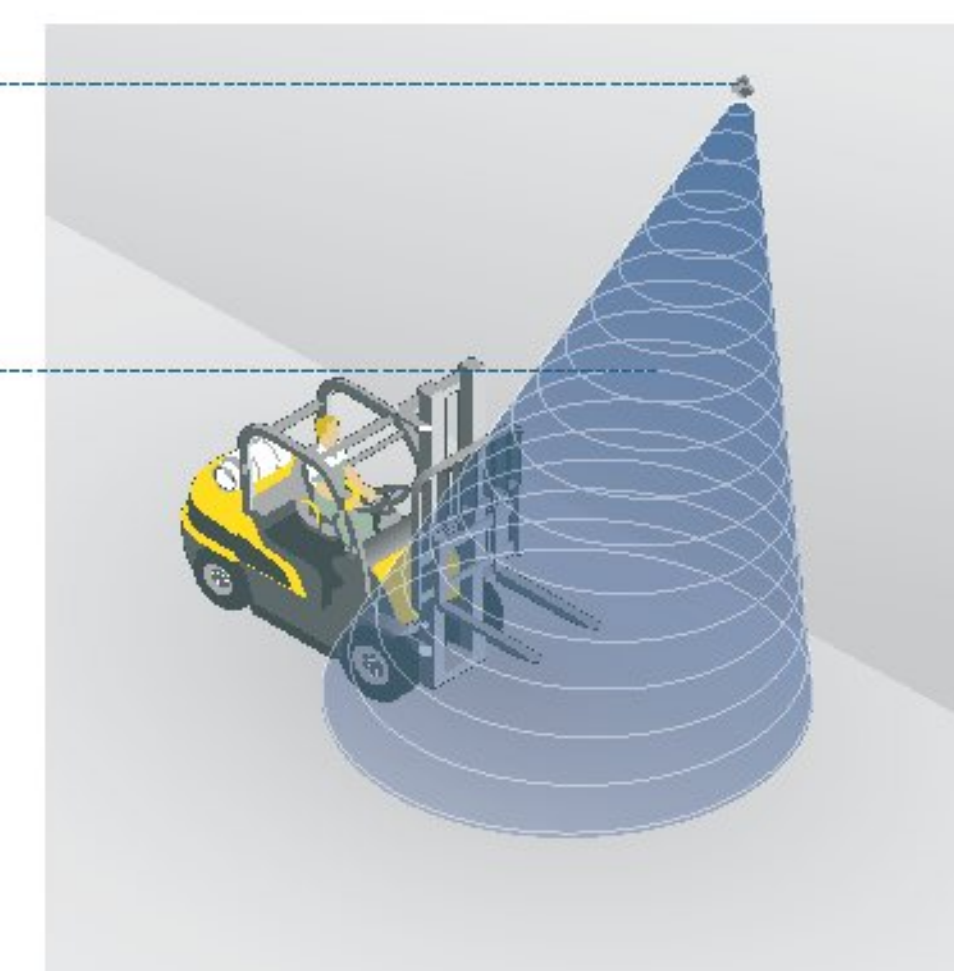


## Dual sensors



### INFRARED PRESENCE DETECTION

Detects objects at rest

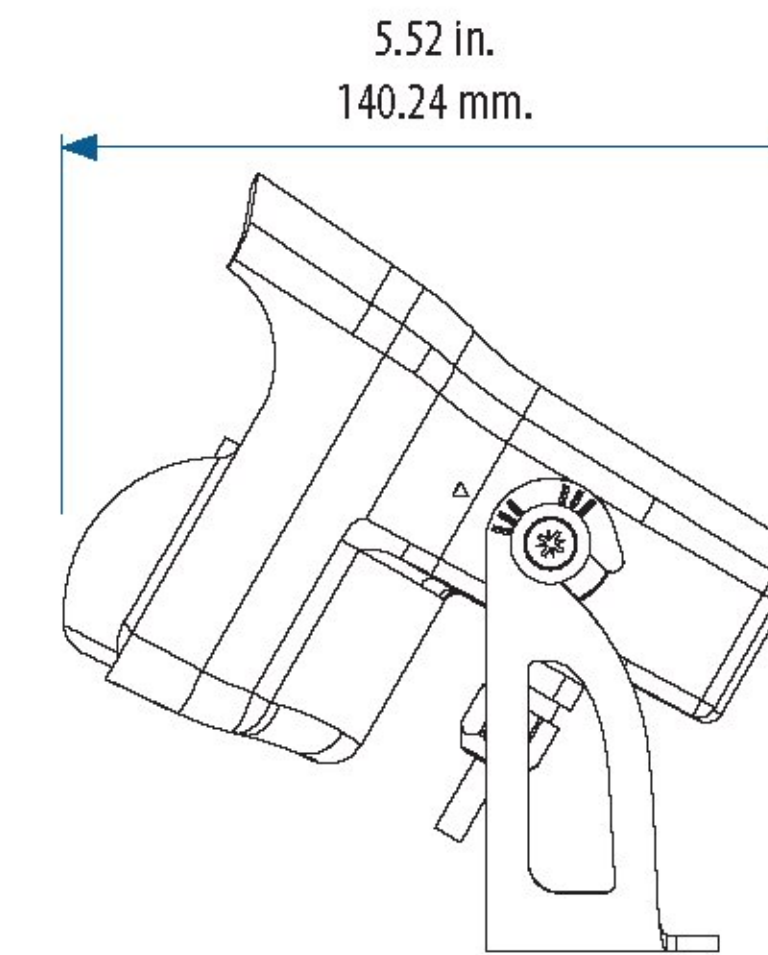


### MICROWAVE ACTIVATION

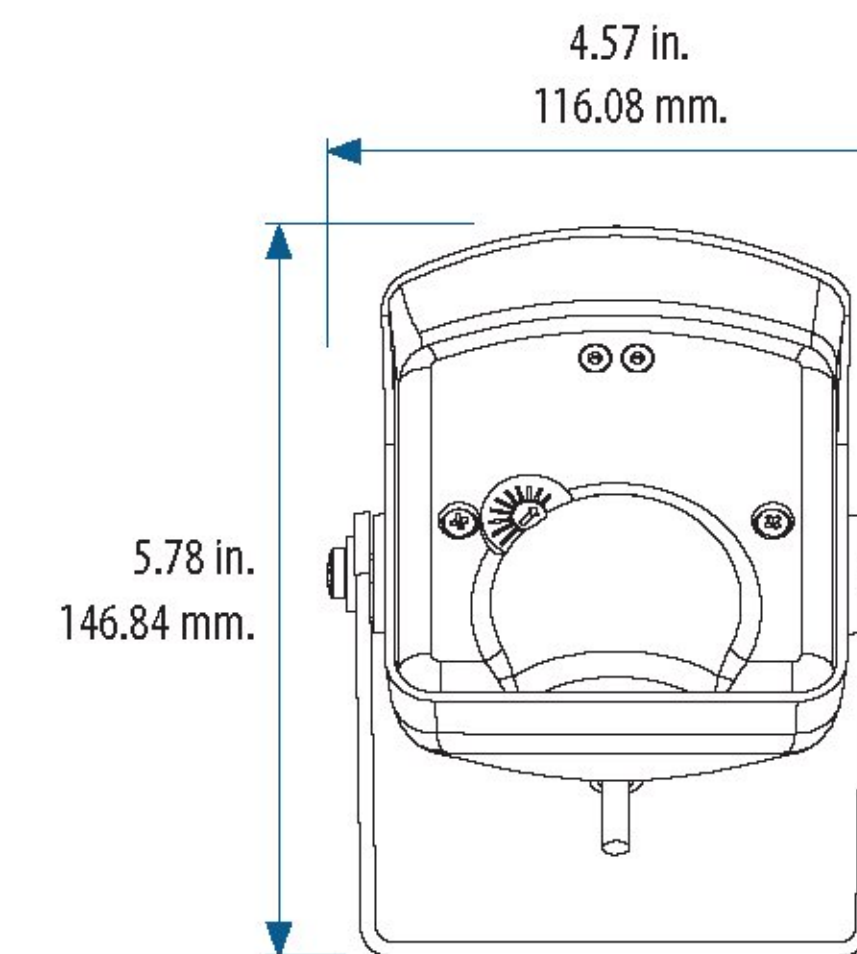
Detects objects in motion

ACCEPTED

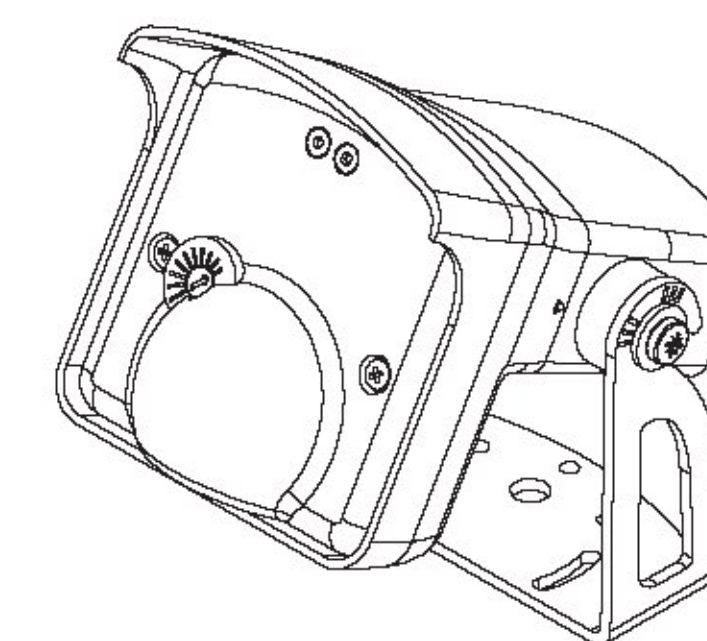
SPECIFICATION	MICROWAVE	INFRARED
Radiated frequency	24.175 GHz	875Nm
Radiated power density	< 5 mW/cm ²	< 250 mW/m ²
Detection mode	Motion	Presence
Detection field	13' x 16' (4m x 5m)	10' x 10' (3m x 3m)
Output hold time	0.5 sec. to 9 sec.	0.5 sec.
Reaction time	100ms	250ms
Minimum target speed	5cm/s (in sensor axis)	0cm/s
Tilt angle	-8° to 22° (relative to sensor front face)	15° to 45°
LED indication signal notification	Green	Red
Supply voltage	12 to 24VAC ± 10%	12 to 24VDC +30% / -5%
Main frequency	50 to 60Hz	
Power consumption	< 2W	
Relay output	2 Relays with switch-over contact (voltage free)	
Max. voltage	60 VDC / 125 VAC	
Max. current	1A (resistive)	
Max switching power	30W (DC) / 60VA (AC)	
Installation height	8' to 16' (2.5m to 5m)	
Temperature range	-22°F (-30°C) to + 140°F (60°C)	
Protection degree	NEMA-4	
Norm conformity	Electromagnetic compatibility (EMC) according to 2004/108/EEC, R&TTE: 1999/5/EC	
Dimensions	(D x W x H) 5" x 4" x 3.75" (127mm x 102mm x 96mm)	
Material housing	ABS	
Face	Polycarbonate	
Housing color	Black	
Face	Transparent purple	
Cable length	32' (10m)	



Side view



Front view



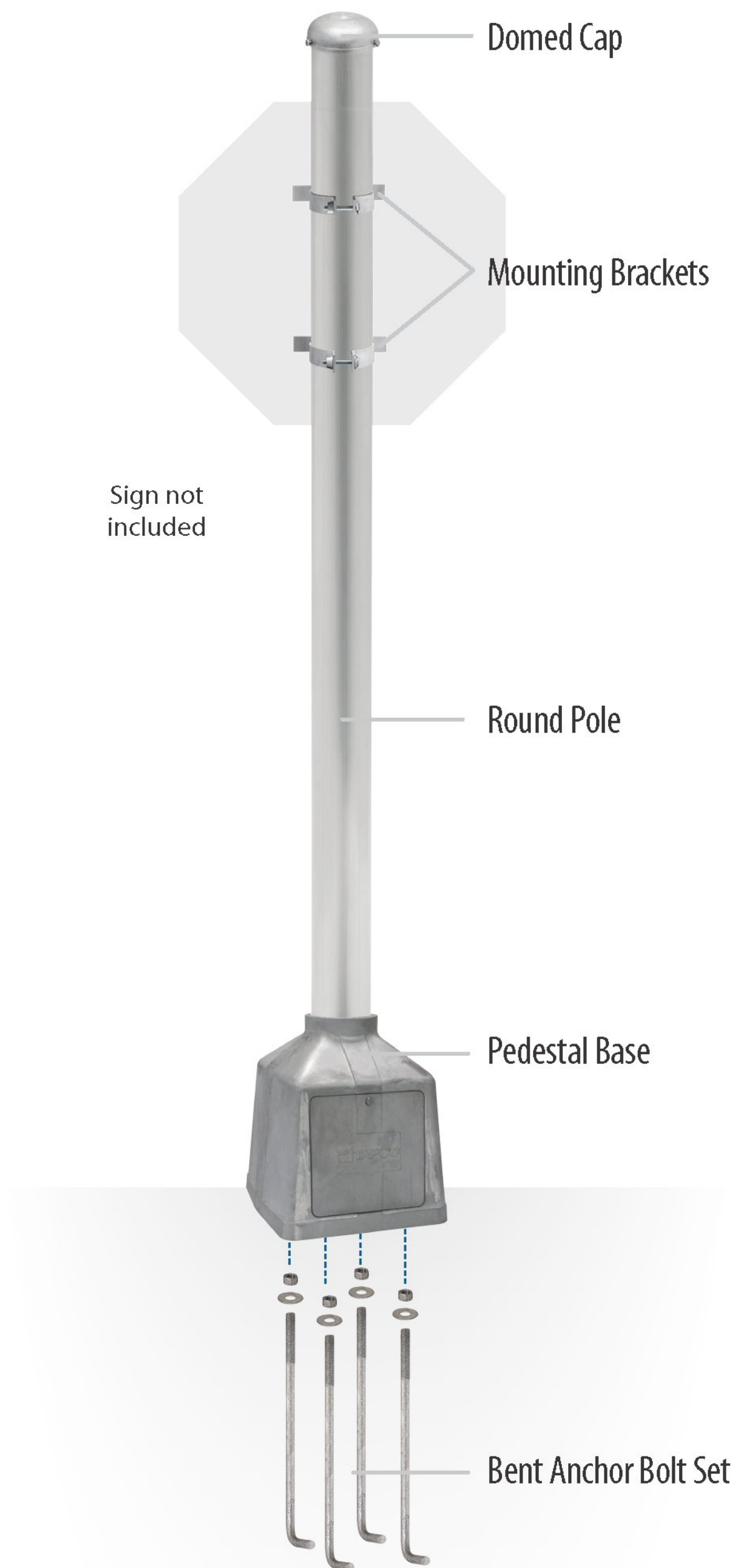
3D perspective



5100 West Brown Deer  
 Brown Deer, WI 53223  
 Ph: 262.814.7000 • 800.236.0112  
 Fax: 414.354.5480 • 800.444.0331  
 www.tapconet.com

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## Heavy Duty Pole Package with Anchor Bolts



### Specifications

#### Domed Pole Cap 203-00010

Cast Aluminum, zinc plated, fits 4½" outer diameter pole  
(3X) ¼" x ½" square head machine screws

#### Mounting Brackets 101802

(2X) Z-bracket single sided round pole mounting bracket,  
Aluminum.  
(2X) ⅝" x ⅝" bolt and nut set  
(2X) ⅝" x 1¾" bolt and nut set

#### Round Aluminum Pole

(10' 373-10, 13' 373-13, 15' 373-15)

Schedule 40 aluminum pole, 4 ¼" outer diameter,  
one end threaded

#### Pedestal Base (203-00014)

Cast aluminum, threaded collar, Aluminum access door, FHWA  
certified, meets or exceeds AASHTO break-away requirements

#### Bent Anchor Bolt (111644, 3177-42)

(4X) ¾" x 18", galvanized steel bent anchor (foundation bolt),  
nut and washer (for frost free areas)  
or  
(4X) 1" x 42", galvanized steel bent anchor (foundation bolt), nut  
and washer (for frost or snow-cover areas)

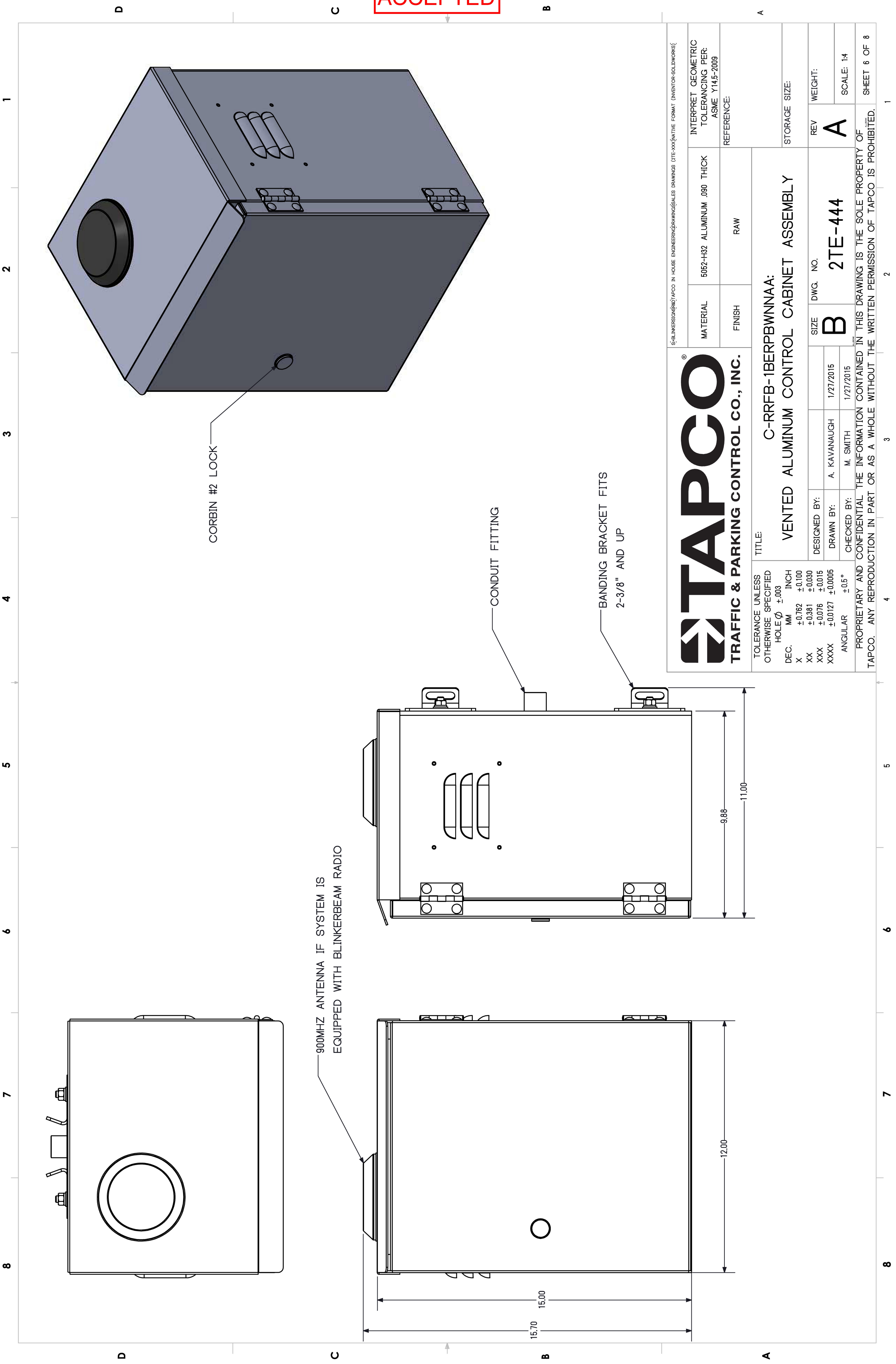


1-800-236-0112 [www.tapconet.com](http://www.tapconet.com)



Contract Holder  
GS-07F-5924R  
GS-07F-0234U

ACCEPTED



TITLE: C-RRFB-1BERPBWNNAA:  
VENTED ALUMINUM CONTROL CABINET ASSEMBLY

MATERIAL		FINISH		SIZE		DWG. NO.		REV		WEIGHT:	
5982-H42 ALUMINUM .090 THICK		RAW		B		2TE-444		A			
DESIGNED BY:		DRAWN BY:		CHECKED BY:		DATE		SCALE:		SHEET # OF #	
A. KAVANAUGH		M. SMITH		1/27/2015		1/27/2015		1:4		6 OF 6	

INTERPRET GEOMETRIC TOLERANCING PER ASME Y14.5-2009 REFERENCE:

STORAGE SIZE:

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TRAFFIC & PARKING CONTROL CO., INC.

TOLENCE UNLESS OTHERWISE SPECIFIED  
HOLE Ø ±.003  
DEC. MM ±.100  
X ±.0162 ±.008  
XX ±.0381 ±.008  
XXX ±.076 ±.016  
XXX ±.0127 ±.0005  
ANGULAR ±.05°

ACCEPTED

# BlinkerBeam® wireless traffic control systems add simple, reliable and versatile tools to ITS applications

When used on highway/roadway applications, BlinkerBeam wireless transmitters can activate pedestrian crosswalk signage, including BlinkerSign® LED Signs, detection devices and many other traffic control devices. It can also be an integral part of critical warning systems for alerting bikers, joggers and pedestrians to the presence of vehicle traffic and vice versa. For simple, reliable and flexible wireless activation, nothing outshines the BlinkerBeam® System from TAPCO.

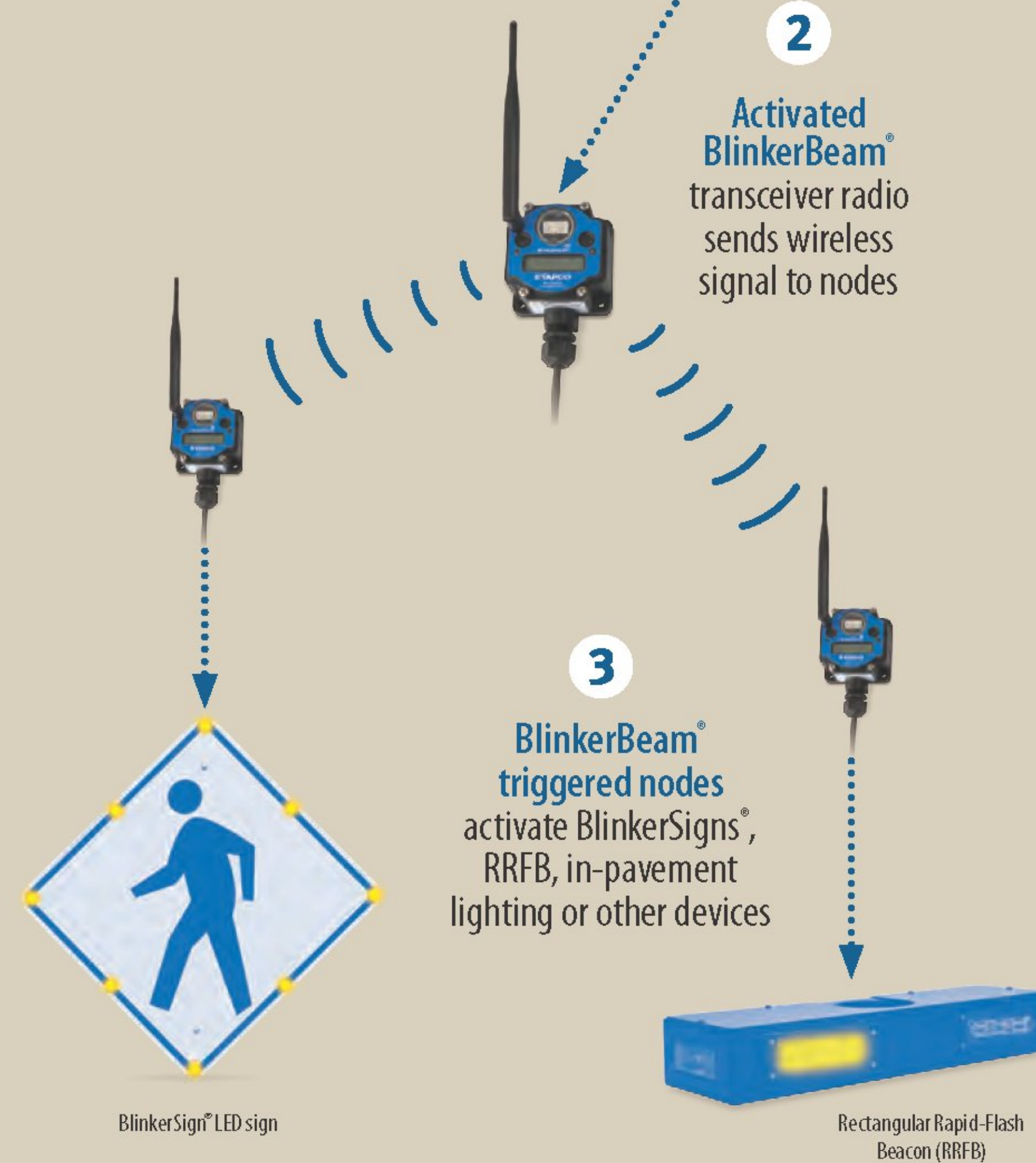
1

**System activation**  
(pedestrian push-button shown)



2

**Activated BlinkerBeam® transceiver radio** sends wireless signal to nodes



BlinkerSign® LED sign

Rectangular Rapid-Flash Beacon (RRFB)



## The BlinkerBeam® controller

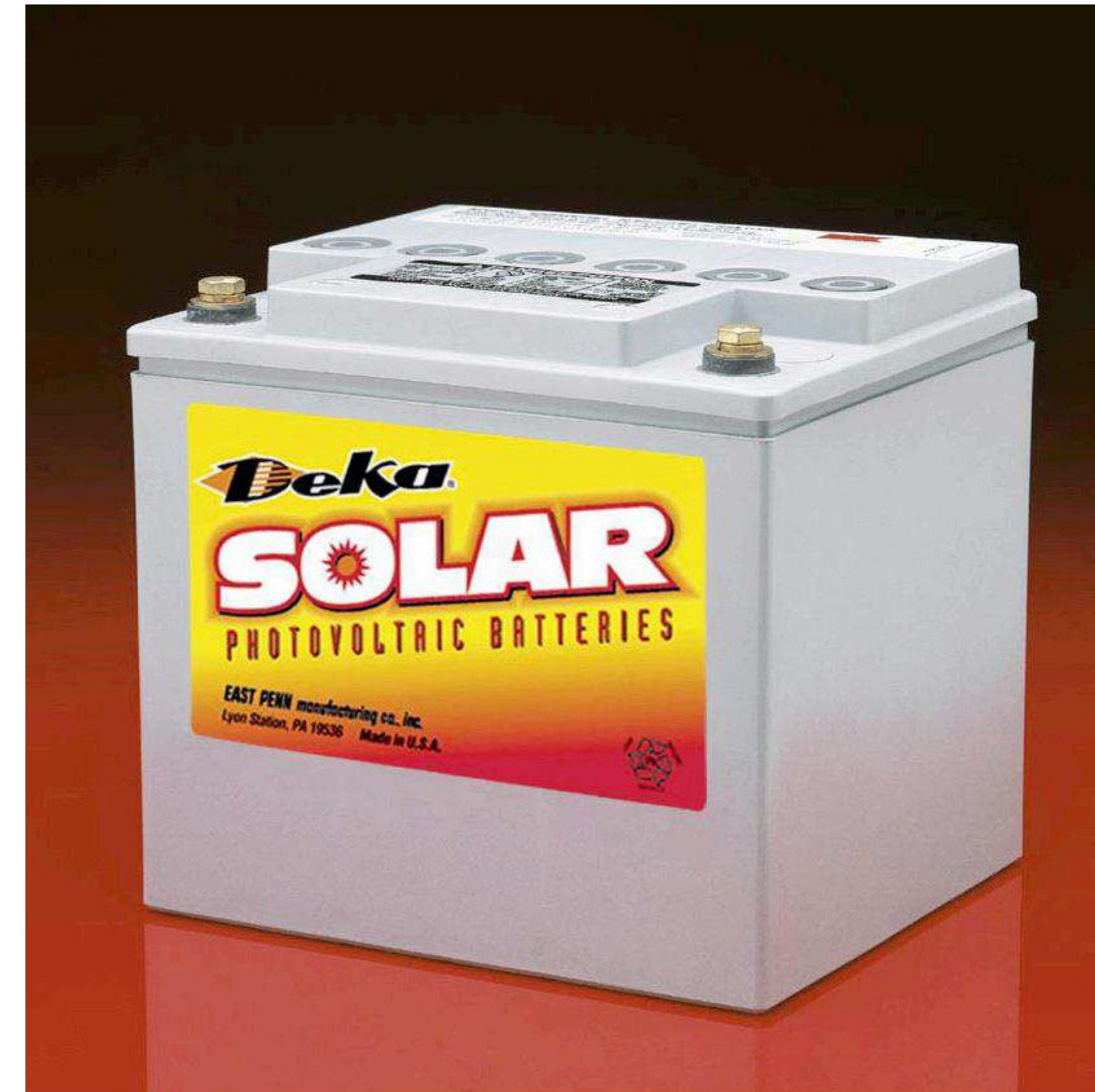
- Operates license-free on 902-928 MHz Spread Spectrum
- Stand-alone operation
- Solar Powered or 110 VAC operation, or optional two-year battery
- Fully programmable outputs
- Terminal Block for easy connectivity
- Range up to 900 feet with internal antenna, optional antenna for extended line of sight distance

## The advantages of solar power versus 110v AC

- Lower installation and operating costs
- Compact, clean appearance
- Self contained
- Easy to install
- Reduced labor
- No concrete cutting
- No electrician required
- No trenching
- Not affected by local grid power outages

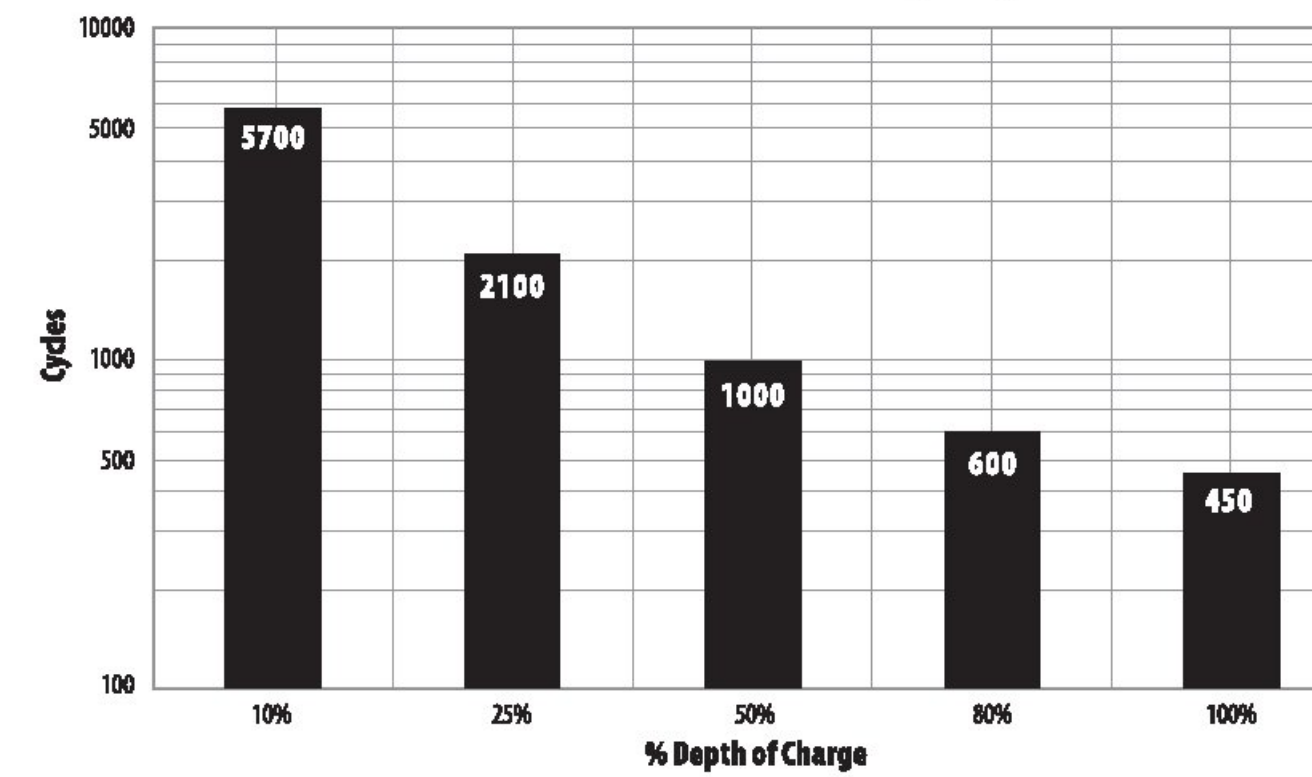
**110V AC POWER AVAILABLE** 110V AC grid-powered systems are available

# 8G40-DEKA 48Ah Valve-Regulated Gelled-Electrolyte Battery



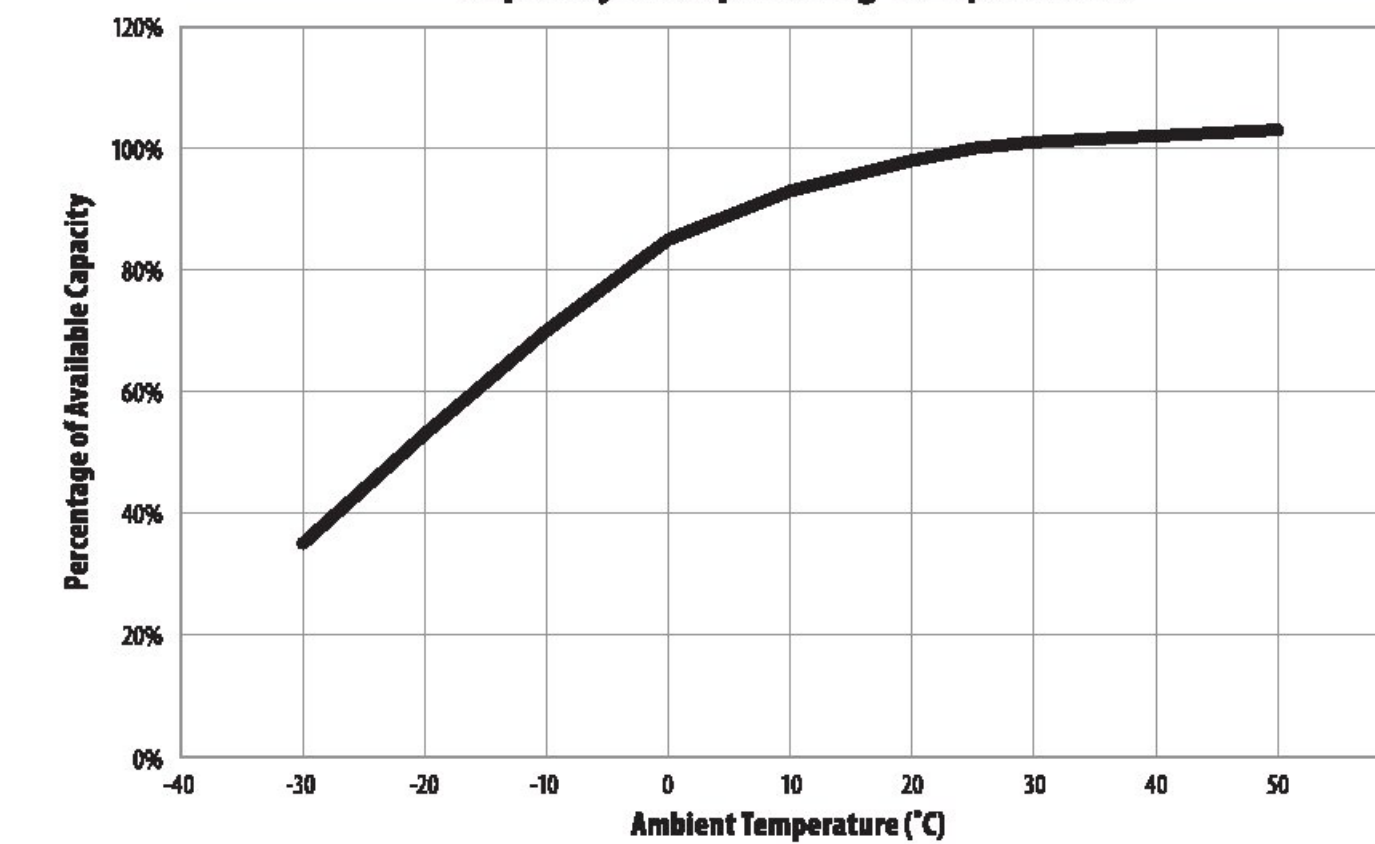
<b>Voltage</b>	12 volts nominal
<b>Capacity at C/100</b>	48 Ah
<b>Capacity at C/100</b>	40 Ah
<b>Plate alloy</b>	Lead calcium
<b>Container/cover</b>	Grey Polypropylene
<b>Electrolyte</b>	Sulfuric acid thizotropic gel
<b>Short circuit current</b>	1331
<b>Posts</b>	Forged terminals and bushings
<b>Operating temperature range</b>	-76°F (-60°C) – 140°F (60°C)
<b>Vent</b>	Self sealing
<b>Terminal</b>	Insert with 1/4"-20 round hole
<b>Weight</b>	32 lb. (14.5 kg)
<b>Dimensions</b>	7.76"L x 6.62"W x 6.87"H 197mmL x 168mmW x 174mmH
<b>Ampere Hour Capacity 77°F (25°C)</b>	
10 HR = 37.0Ah	20 HR = 40.0 Ah    24 HR = 40.8 Ah    100 HR = 48.0 Ah
<b>Peak Rating** [1.75 vpc @ 77°F (25°C)]</b>	
5 HR = 36.0 AH	20 HR = 42.1 AH    100 HR = 48.7 AH
<b>Non -Spillable</b>	as defined by Department of Transportation, International Commercial Airline Organization and International Airline Transport Association definitions

**Gel Cycle Life vs Depth of Discharge at +25°C (77°F)*  
Based on BCI 2-hour Capacity**



*Dependent upon proper charging and ambient temperatures.

**Capacity vs. Operating Temperature**



**Capacity vs. Operating Temperatures:** Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

**Photovoltaic Charging Parameters**

<b>Bulk charge</b>	Max current (amps)	30% of 20 Hr rate
<b>Absorption (regulation) charge</b>	Constant Voltage	2.35-2.43 vpc
<b>Float charge</b>	Constant Voltage	2.25 vpc ± 0.01
<b>Equalize charge</b>	Constant Voltage	2.40-2.43 vpc
<b>Temperature coefficient</b>	0.003 v/°C	

Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, etc.

Distributed by



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Brown Deer, WI 53208

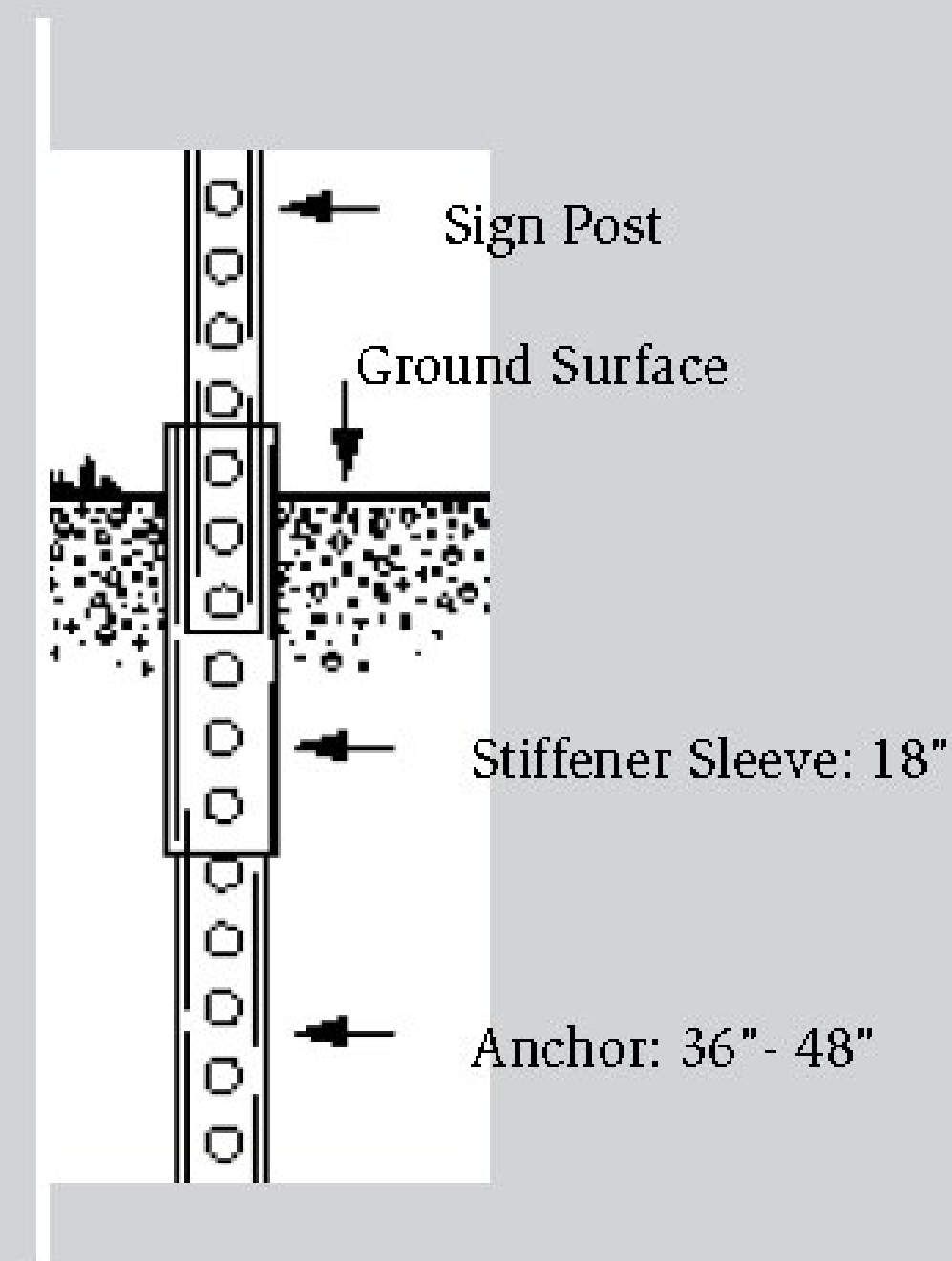
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www.tapconet.com



## Galvanized Square Posts

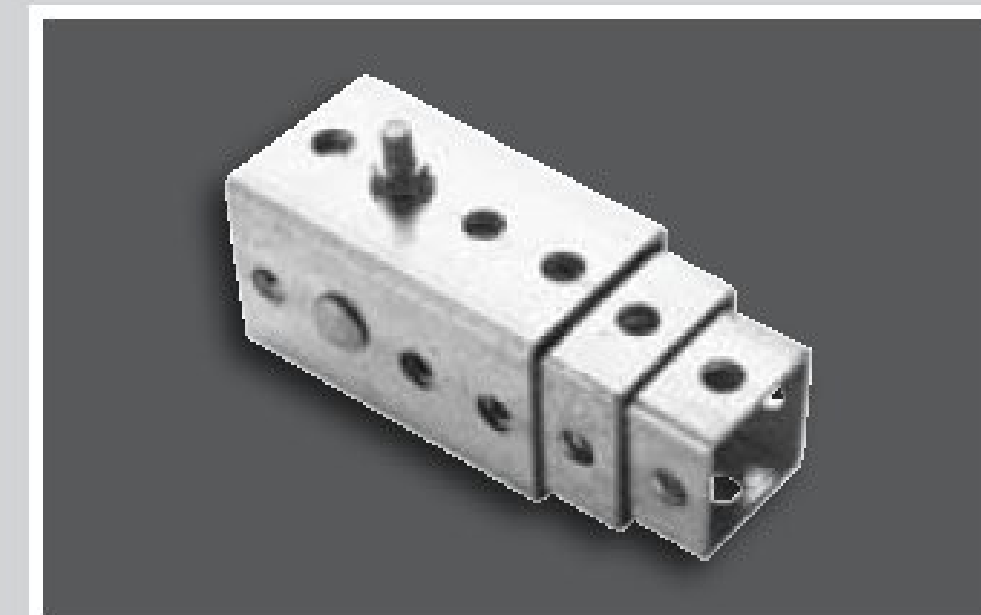
TAPCO stocks many perforated post lengths in 12 gauge and 14 gauge wall thicknesses. Posts are also available in 20' and 24' master lengths, or they can be cut to your specifications. Earth anchors are available in 3 foot and 4 foot lengths, or cut your own.

Perforated posts have 7/16" diameter holes on 1" centers that run the full length of the post on all four sides. Unperforated posts (solid and quick-punch) can be special ordered.



Anchor / Sleeve	Length	Gauge In	Item #
2" x 2"	36"	12 .105	1603-7
2-1/4" x 2-1/4"	18"	12 (.105)	2793-7
2-1/4" x 2-1/4"	36"	12 (.105)	1603-8
2-1/4" x 2-1/4"	48"	12 (.105)	54-38
2-1/2" x 2-1/2"	18"	12 (.105)	54-32

Post Size	Length	Gauge In	Item #
1-1/2" x 1-1/2"	10'	14 (.75)	2793-8
1-3/4" x 1-3/4"	10'	12 (.105)	1603-14
1-3/4" x 1-3/4"	10'	14 (.075)	1603-5
1-3/4" x 1-3/4"	12'	12 (.105)	1603-15
1-3/4" x 1-3/4"	12'	14 (.075)	1603-6
2" x 2"	8'	14 (.075)	54-43
2" x 2"	8'	12 (.105)	2793-6
2" x 2"	10'	12 (.105)	1603-1
2" x 2"	10'	14 (.075)	1603-3
2" x 2"	12'	12 (.105)	1603-2
2" x 2"	12'	14 (.075)	1603-4
2" x 2"	14'	12 (.105)	2793-1
2" x 2"	16'	12 (.105)	2793-2
2" x 2"	24'	12 (.105)	2793-4
2-1/4" x 2-1/4"	12'	12 (.105)	1603-16
2-1/2" x 2-1/2"	12'	12 (.105)	1603-17



## Nested post anchor systems

TAPCO perforated square posts can be nested within each other to make a signpost anchoring system, **or choose a V-Loc anchor for square posts from the V-Loc section.** To allow for fast replacement and breakaway safety, install anchor into the ground and insert the next smaller size into it. Then secure the posts with nut and bolt.

## Galvanized Post Cap

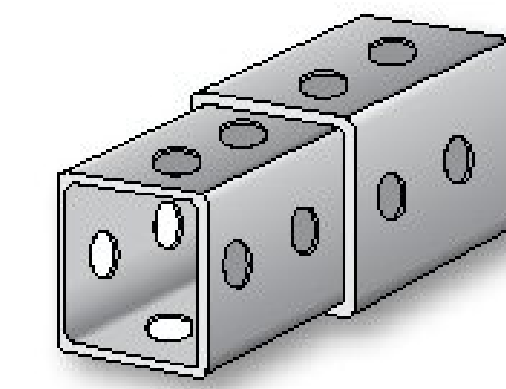
For Tube Size 2" x 2" (2793-5)  
For Tube Size 2-1/2" x 2-1/2" (649-22)

Aluminum Post Cap  
For Tube Size 2" x 2" (37-4)

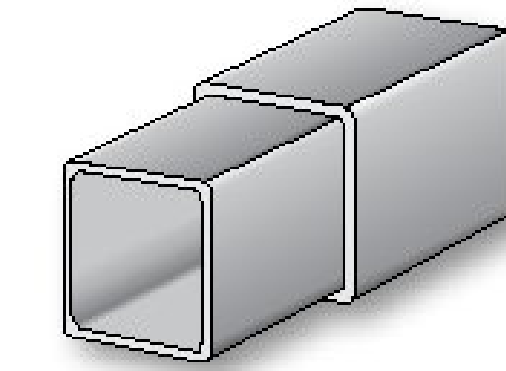
## Corner Bolt

For Square Posts = / < 2" (1603-12)  
For Square Posts 2" to 2-1/2" (1603-13)

Accessories  
for Square  
Steel Posts



With Perforations (See table).



Without Perforations  
by Special Order.



## Driving Caps

Driving Caps protect the end of the post or support anchor when being driven into the ground. Engineered to fit inside post size indicated in table.

For Post Size	Weight	Item Number
1-1/2" x 1-1/2"	3.7 lbs.	(649-12)
1-3/4" x 1-3/4"	5.2 lbs.	(1603-9)
2" x 2"	6.9 lbs.	(1603-10)
2-1/4" x 2-1/4"	9.0 lbs.	(649-13)
2-1/2" x 2-1/2"	11.0 lbs.	(649-14)



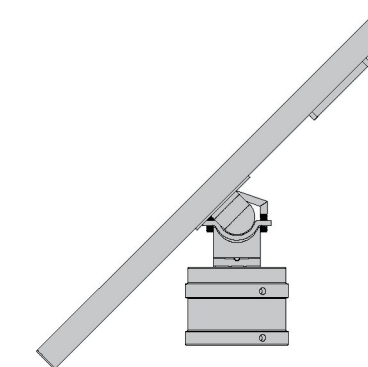
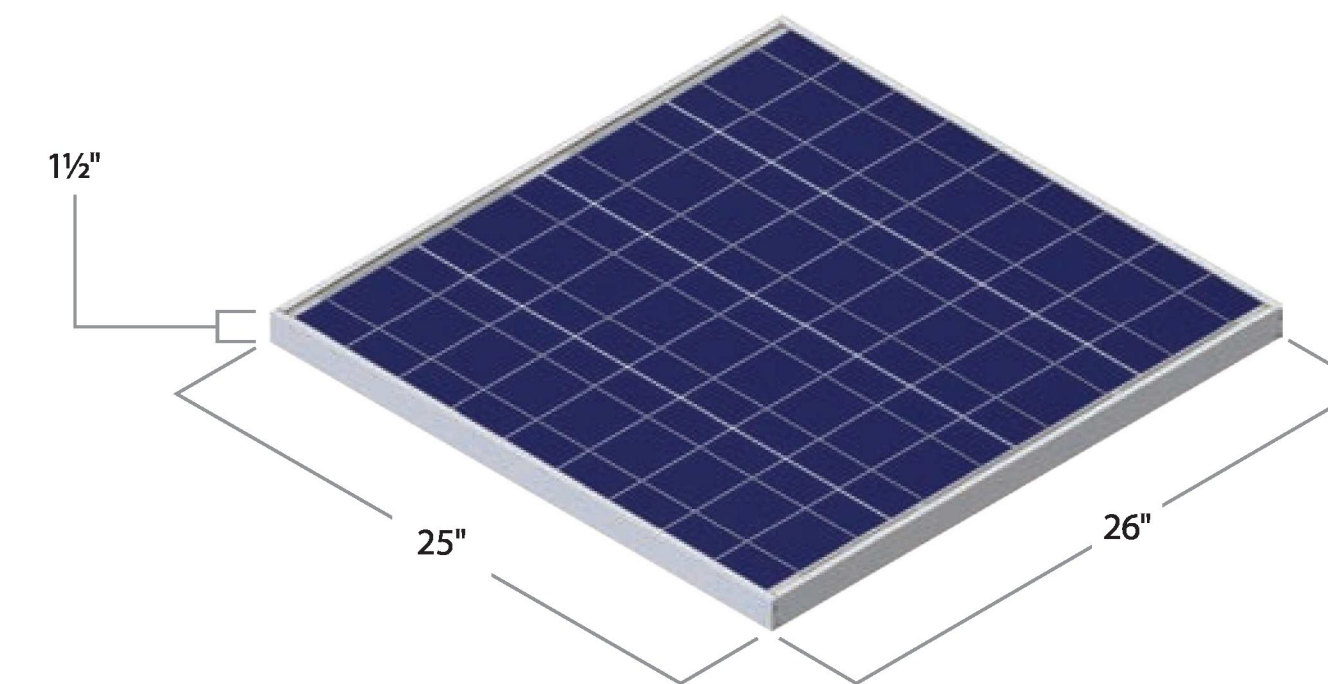
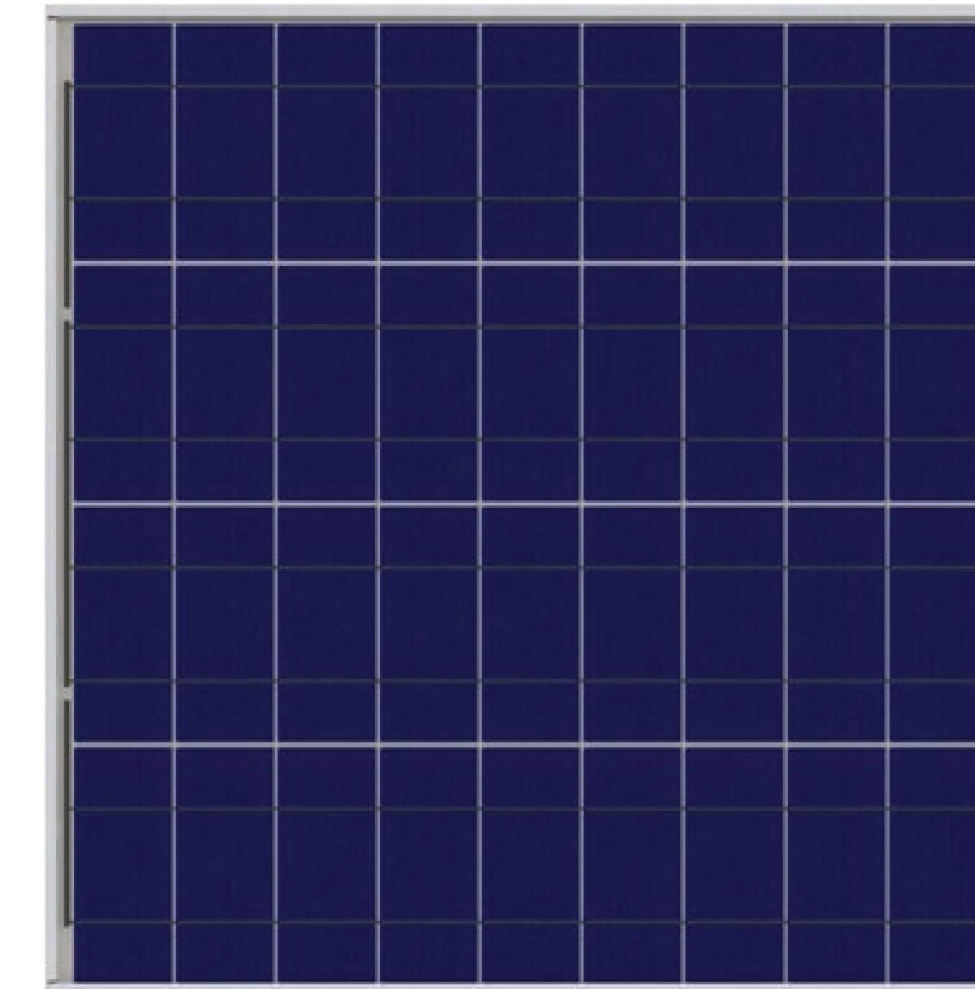
Heavy Jam  
Nut  
Zinc plated.  
5/16" diameter  
  
(3177-1)



Drive Rivets  
for Signs  
3/8" diameter  
  
(1603-11)

# 55 Watt Solar Panel

Electrical Specifications	
Max Power	55W
Nominal Voltage	12V
Open Circuit Voltage (Voc)	22.1V
Short Circuit Current (Isc)	3.31A
Maximum Power Voltage (Vpm)	18.18V
Maximum Power Current (Ipm)	3.1A
Physical Dimensions (without brackets)	
Length	26"
Width	25"
Depth (thickness)	1½"
Weight	14 lbs.
Glass	Tempered



55W Solar Panel with aluminum  
4.5" OD pole mount 107525

1-800-236-0112 [www.tapconet.com](http://www.tapconet.com)



Distributed by Traffic & Parking Control Co, Inc. 5100 West Brown Deer Road, Brown Deer WI 53223 U.S.A.  
Phone 800-236-0112 FAX 800-444-0331 [www.tapconet.com](http://www.tapconet.com)

1005-XXXXXX (08/01/14)