

# STATE OF VERMONT AGENCY OF TRANSPORTATION

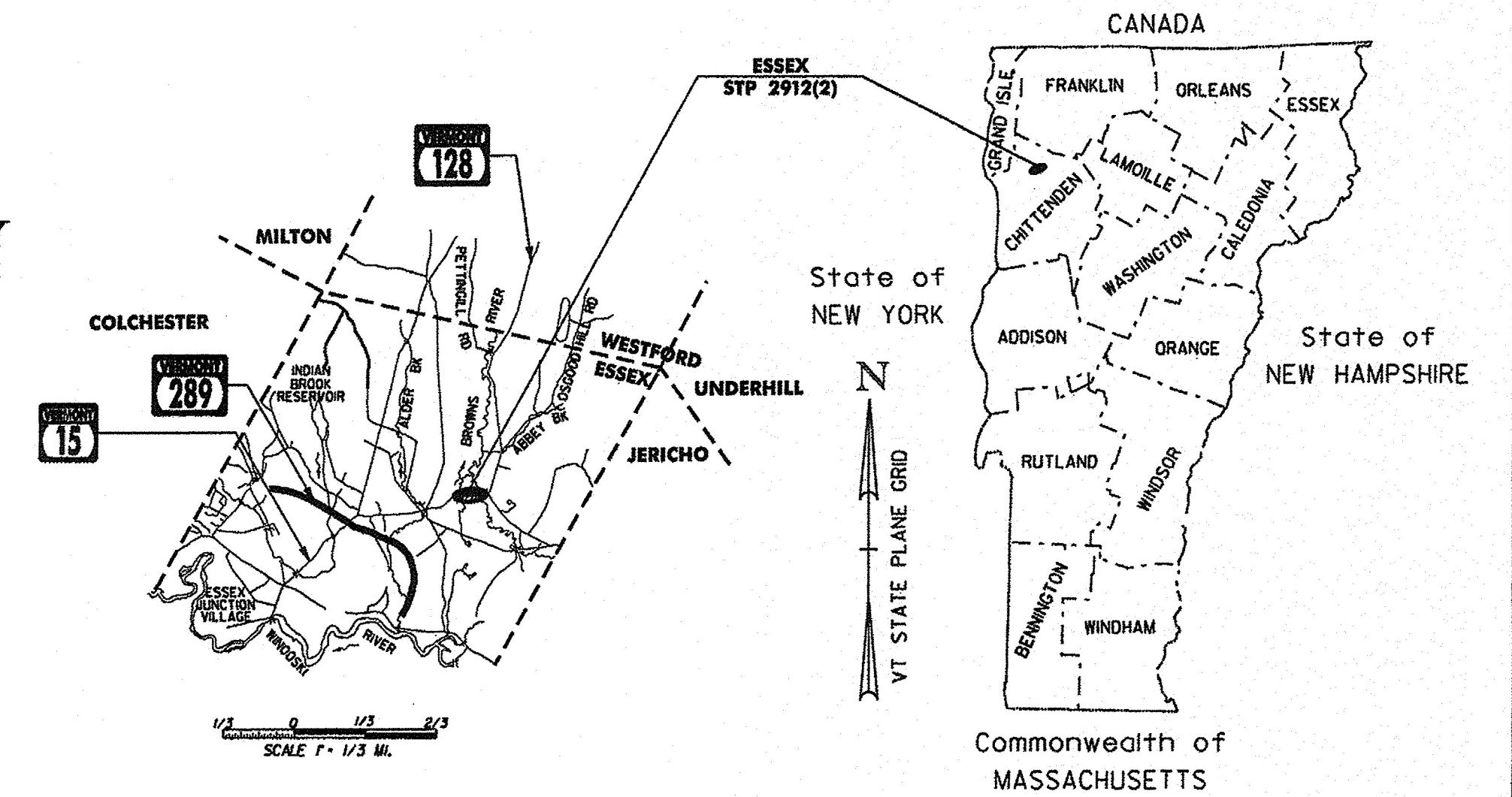


## PROPOSED IMPROVEMENT TOWN OF ESSEX COUNTY OF CHITTENDEN VT ROUTE 128 (MAJOR COLLECTOR)

BEGINNING IN THE TOWN OF ESSEX ON VT ROUTE 128 AT STA. 44+75.00 (MM 0.848) AND EXTENDING NORTHERLY ALONG VT ROUTE 128 FOR A DISTANCE OF 850.00 FEET (0.161 MILE) TO STA. 53+25.00 (MM 1.009) IN THE TOWN OF ESSEX.

PROJECT LENGTH:	LENGTH (FEET)	LENGTH (MILES)
TOTAL LENGTH OF PROJECT:	850.00	0.161
TOTAL LENGTH OF ROADWAY:	850.00	0.161

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GABION MATTRESS, STONE FILL, PAVING AND OTHER RELATED HIGHWAY ITEMS.



### INDEX OF SHEETS

- 1 TITLE SHEET
- 2 CONVENTIONAL SYMBOLOLOGY LEGEND
- 3 TIE SHEET
- 4-5 GABION MATTRESS DETAIL SHEETS
- 6 QUANTITY SHEET
- 7-10 PLAN SHEETS
- 11 EROSION CONTROL DETAILS
- 12-16 GABION MATTRESS CROSS SECTION SHEETS
- 17 CONSTRUCTION APPROACH SIGNING

### VAOT STANDARDS

T-1	08/06/12
T-10	08/06/12
T-17	08/06/12
T-28	08/06/12
T-29	08/06/12
T-30	08/06/12
T-31	08/06/12
T-35	08/06/12
T-36	08/06/12

### RECORD PLANS

CONTRACTOR: DON WESTON EXCAVATING, INC. - WILLISTON, VT

RESIDENT ENGINEER: CHRIS ACHILLES

CONSTRUCTION BEGAN: OCTOBER 15, 2015

CONSTRUCTION COMPLETE: SEPTEMBER 20, 2016

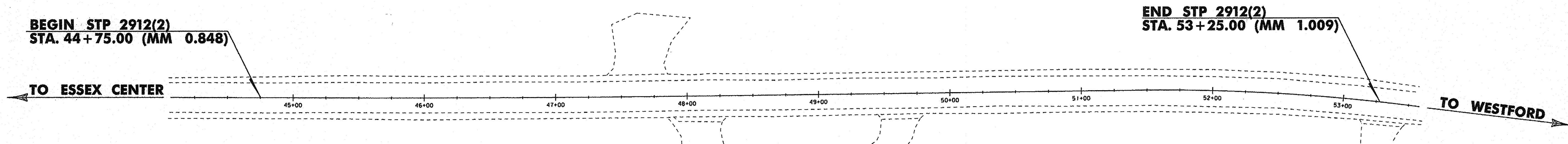
RECORD PLANS BY: CHRIS ACHILLES & AARON WEAVER

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

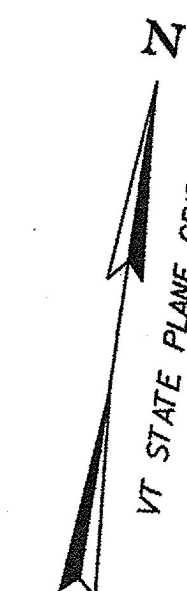
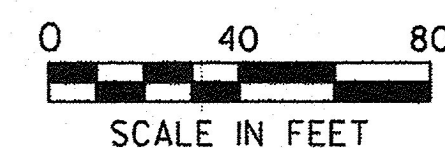
BY: RESIDENT ENGINEER

DATE: 6/9/18

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.



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 : L. ORVIS - VTRANS	
SURVEYED DATE : 07/2014	
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83

### TRAFFIC DATA

LOCATION	AADT		DHV		ESALS	
	2015	2025	2015	2025	2015-2025	2015-2035
BEGIN PROJECT TO WEED ROAD (TH-63)	3800	3900	430	440	607,000	1,288,000

DIRECTOR OF PROJECT DELIVERY	
APPROVED:	DATE: 4/17/2015
PROJECT MANAGER : MICHAEL J. FOWLER, P.E.	
PROJECT NAME : ESSEX	
PROJECT NUMBER : STP 2912 (2)	
SHEET 1 OF 17 SHEETS	

**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY 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
HWY	HIGHWAY EASEMENT
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 SYMBOLGY**

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 SYMBOLGY**

PROJECT DESIGN & LAYOUT SYMBOLGY	
— — — — —	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 — — — — — BF	BARRIER FENCE
XXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// ////	STRIPING LINE REMOVAL
~~~~ ~~~~ ~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

BOUNDARY LINES	
— — — — —	TOWN BOUNDARY LINE
— — — — —	COUNTY BOUNDARY LINE
— — — — —	STATE BOUNDARY LINE
— — — — —	PROPOSED STATE R.O.W. (LIMITED ACCESS)
— — — — —	PROPOSED STATE R.O.W.
— — — — —	STATE ROW (LIMITED ACCESS)
— — — — —	TOWN ROW
— — — — —	PERMANENT EASEMENT LINE (P)
— — — — —	TEMPORARY EASEMENT LINE (T)
— — — — —	SURVEY LINE
— — — — —	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 SYMBOLGY**

EPSC MEASURES	
ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— — — — —	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
— — — — —	AGRICULTURAL LAND
— — — — —	FISH & WILDLIFE HABITAT
— — — — —	FLOOD PLAIN
— — — — —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— — — — —	USDA FOREST SERVICE LANDS
— — — — —	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

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

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

EXISTING FEATURES	
— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
— — — — —	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: ESSEX  
 PROJECT NUMBER: STP 2912(2)  
 FILE NAME: p14v256\_de+alls.dgn PLOT DATE: 08-JUN-2015  
 PROJECT LEADER: M. FOWLER DRAWN BY: N. PAPPAS  
 DESIGNED BY: N. PAPPAS CHECKED BY: M. FOWLER  
 CONVENTIONAL SYMBOLGY LEGEND SHEET 2 OF 17

GPS CONTROL POINTS

"ESSEX"  
 NORTH = 736098.28  
 EAST = 1495748.41  
 ELEV. = 620.40

TO REACH FROM THE INTERSECTION OF VT ROUTES 128 NORTH AND 15 IN ESSEX CENTER GO EAST ALONG VT ROUTE 128 NORTH FOR 0.1 MI (0.2 KM) TO THE INTERSECTION OF BIXBY HILL ROAD AT A CROSSROADS. TURN LEFT AND GO NORTH-NORTHEAST ALONG BIXBY HILL ROAD FOR 0.45 MI (0.72KM) TO THE CREST OF A HILL AND THE MARK ON THE LEFT, ABOUT 74 M (242.8FT) NORTHWEST OF AND ACROSS THE ROAD FROM THE NORTHWEST CORNER OF THE 2 STORY HOUSE OF MAGNANT. THE MARK IS A U.S. CORPS OF ENGINEERS ARMY MAP SERVICE DISK SET IN THE NORTH END OF A MASSIVE ROCK OUTCROP. IT IS 35.3 M (115.8 FT) WEST OF AND ABOUT 10 M (32.8 FT) HIGHER THAN THE CENTERLINE OF BIXBY HILL ROAD, 19.7 M (64.6 FT) EAST OF THE SOUTHEAST CORNER OF A CHAIN LINK FENCE SURROUNDING A MUNICIPAL WATER TANK, 12.0M (39.4 FT) WEST OF THE WEST FACE OF A LARGE PIECE OF DETACHED LEDGE WHICH PROJECTS ABOUT 2 M, (6.6 FT) AND 6.6 M (21.7 FT) SOUTHWEST OF A FIBERGLASS WITNESS POST.

"EVANS"  
 NORTH = 733124.962  
 EAST = 1486286.307  
 ELEV. = 482.278

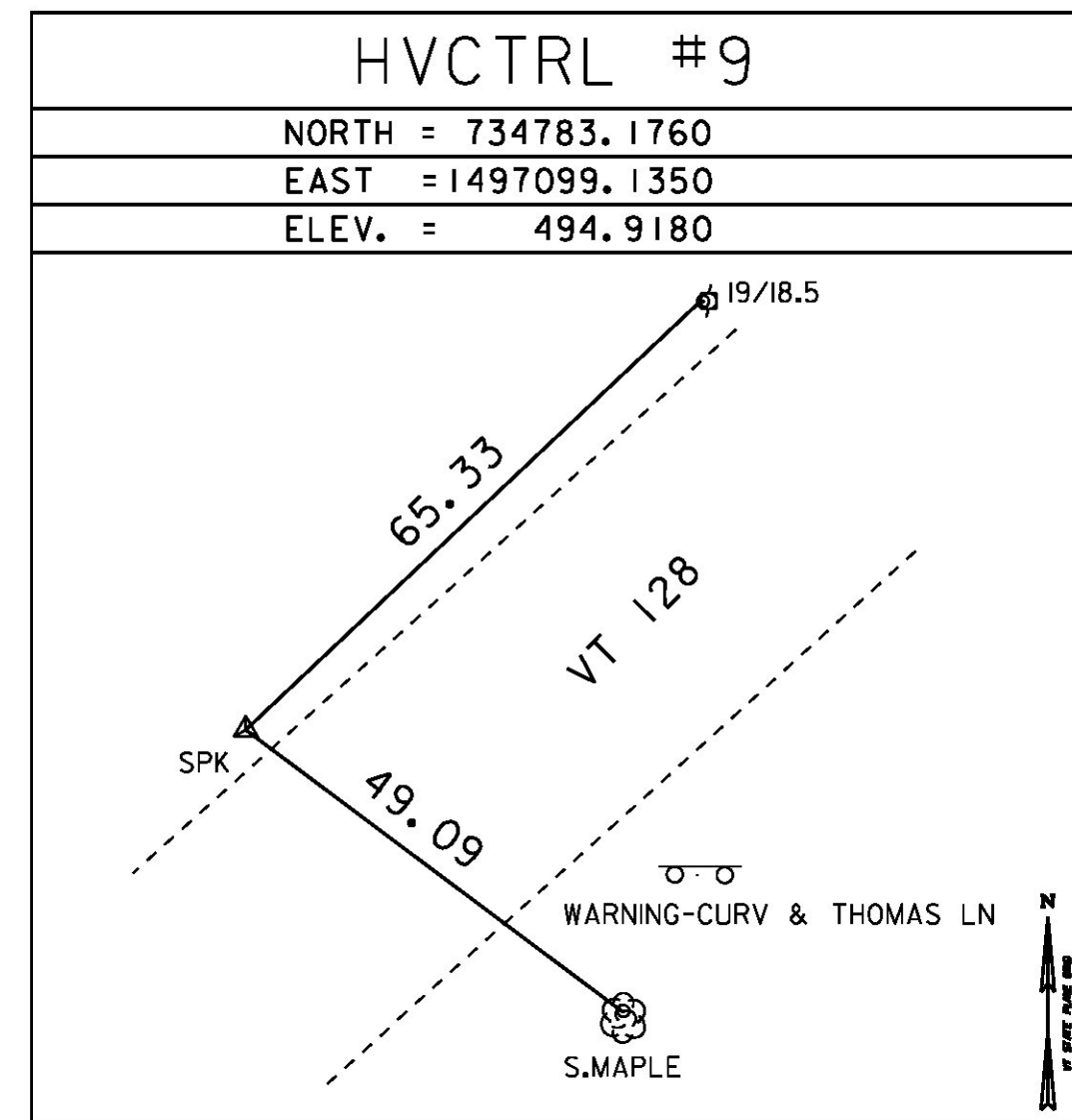
TO REACH FROM THE VT ROUTE 15 BRIDGE OVER VT ROUTE 289, GO NORTHWEST ALONG VT ROUTE 289 FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF VT ROUTE 289 AND THE NORTHWEST END OF THE NORTHBOUND ON-RAMP AND PARK VEHICLE. WALK NORTHEAST UP THE EMBANKMENT TO THE SITE OF THE MARK JUST BEYOND THE RIGHT-OF-WAY FENCE. THE MARK IS SET ON THE EDGE OF A FIELD 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A ROCK OUTCROP. IT IS 56.0 M (183.7 FT) NORTHEAST OF AND ABOUT 7 M (23.0 FT) HIGHER THAN THE CENTERLINE OF VT ROUTE 289, 8.4 M (27.6 FT) WEST OF A 25 CM (10 INCH) CHERRY AT THE CORNER OF A BRUSH LINE, 18.7 M (61.4 FT) NORTHWEST OF A 4 CM (2 INCH) SPRUCE AND 1.2 M (3.9 FT) NORTHEAST OF A FIBERGLASS WITNESS POST AND THE RIGHT-OF-WAY FENCE.

"RONALD PERRY"  
 NORTH = 759471.920  
 EAST = 1505360.836  
 ELEV. = 411.724

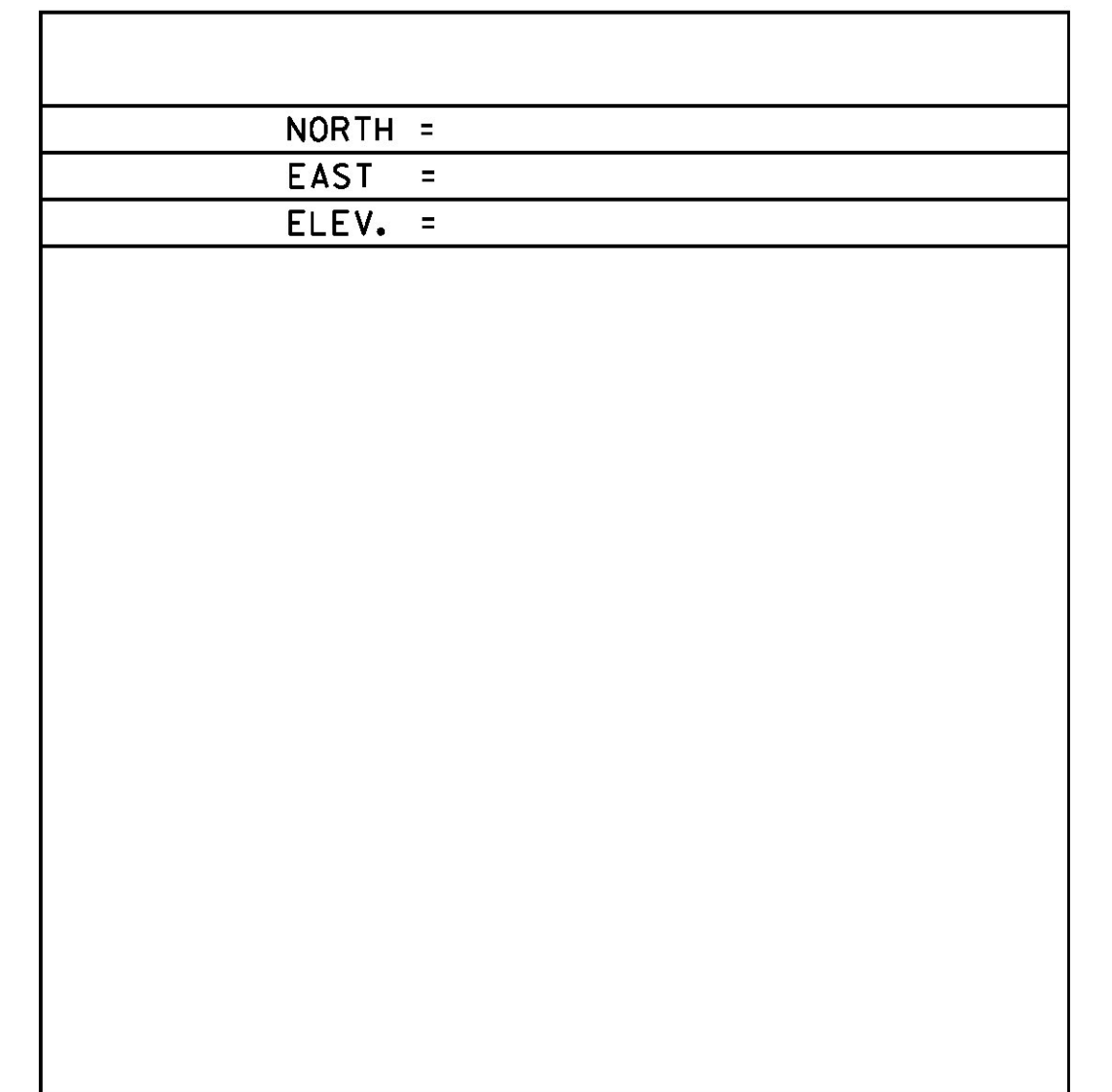
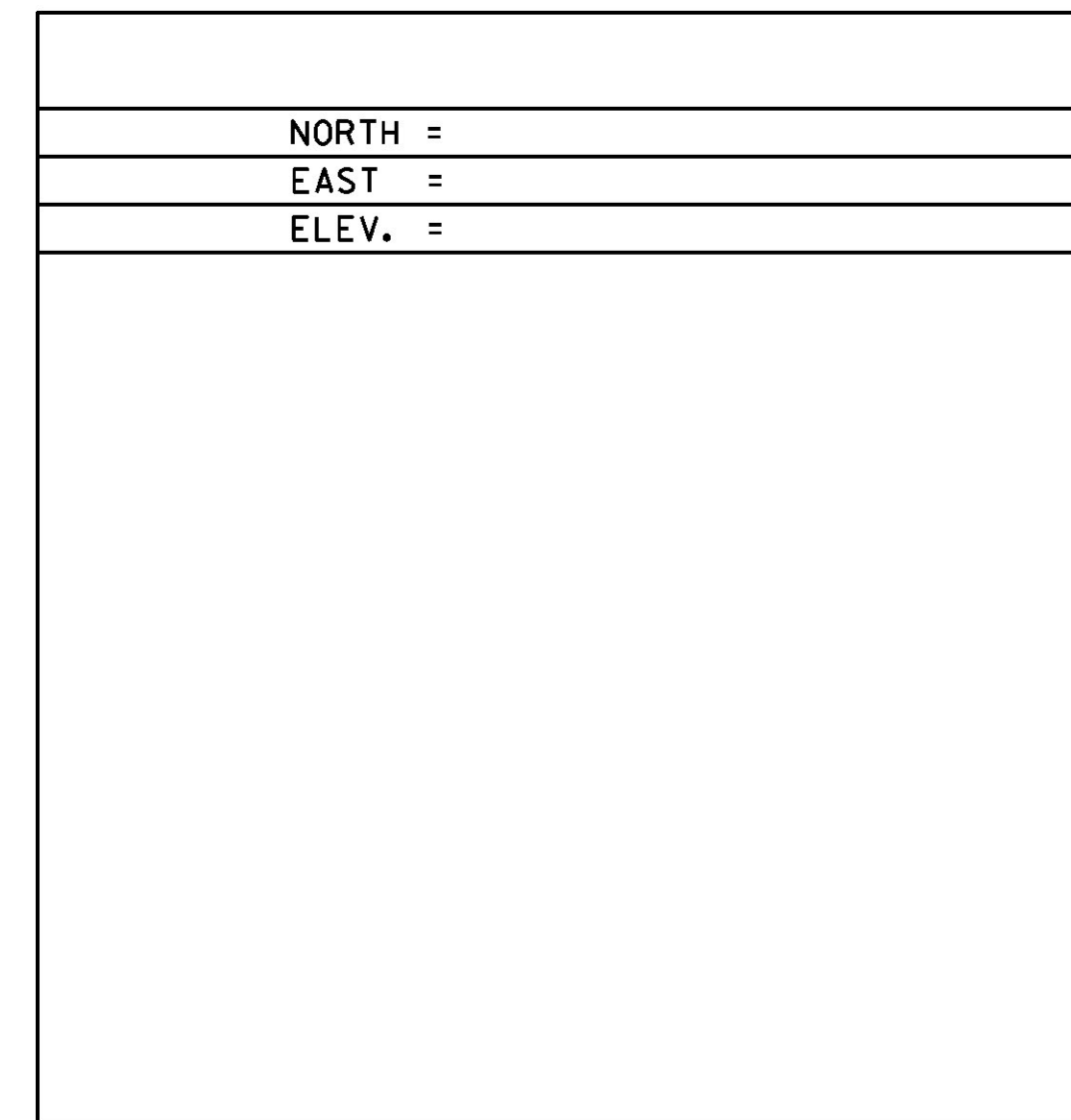
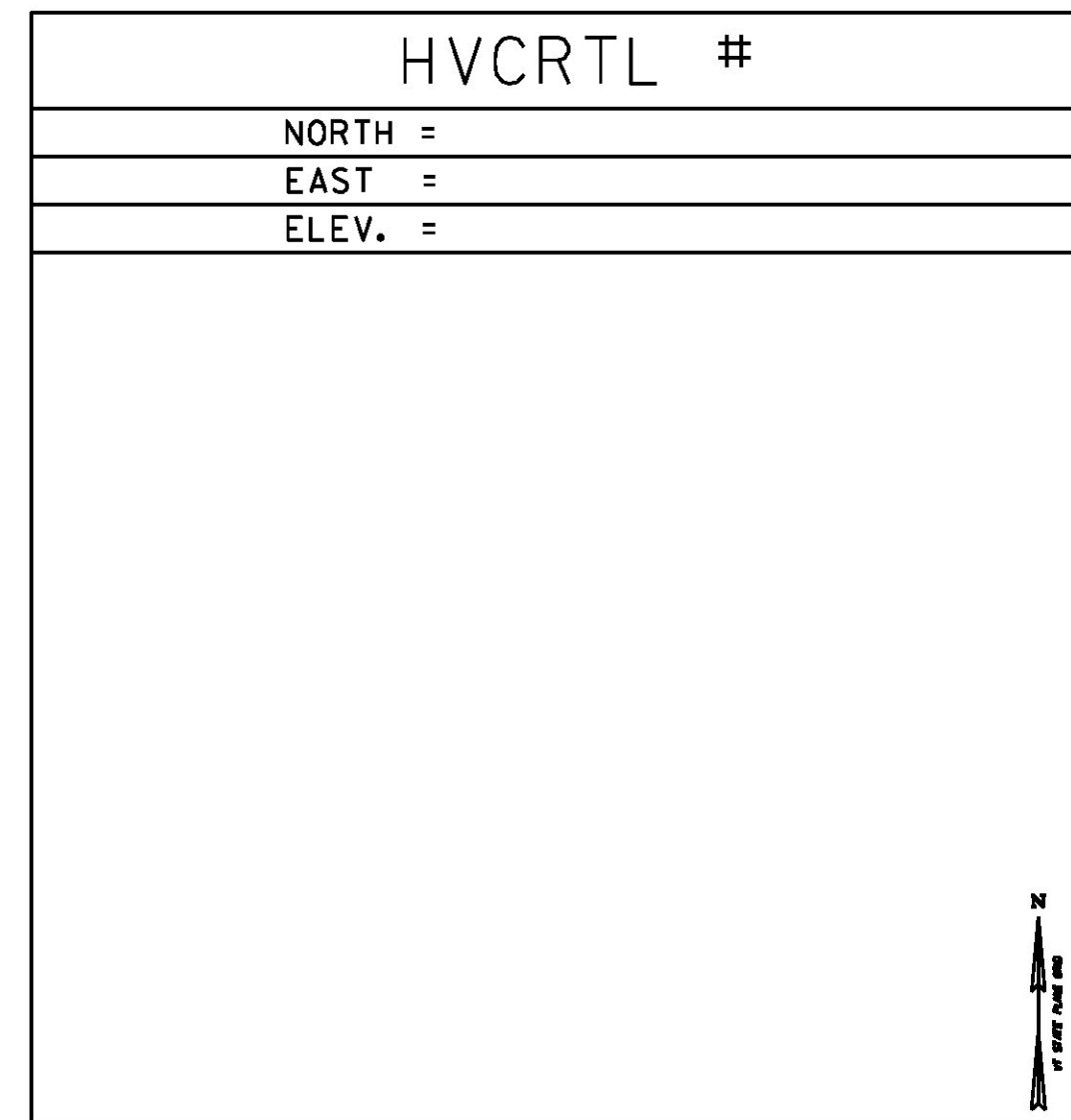
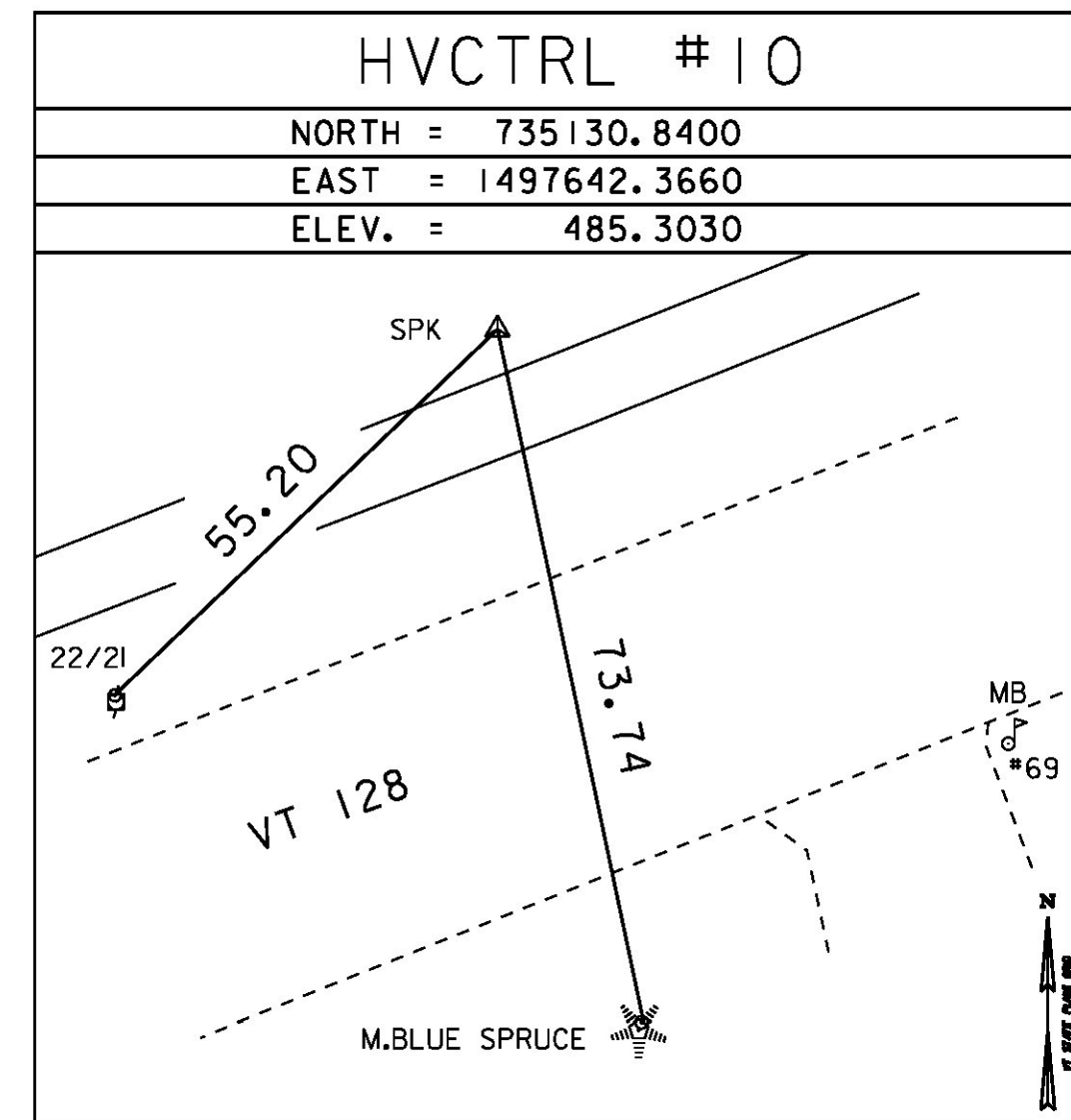
GENERAL LOCATION, WESTFORD, VT. OWNERSHIP, RONALD PERRY, 1292 VT ROUTE 128, WESTFORD VT 05494. THE MARK IS SET FLUSH WITH THE GROUND SURFACE IN THE TOP OF A 3.0 M X 0.4 M ROCK OUTCROP. IT IS 90.4 M NW OF AND ABOUT 2 M LOWER THAN THE CENTERLINE OF VT ROUTE 128, 81.3 M ESE OF A 70 CM WHITE PINE, 20.2 M SW OF THE PEAK OF A 10.5 M X 4.0 M ROCK OUTCROP WHICH PROJECTS ABOUT 1.0 M ABOVE GROUND SURFACE, 103.6 M SW OF THE CENTERLINE OF THE FIELD DRIVE AND 61.9 M NORTH OF A 45 CM MAPLE AND A FWP.

\*GPS CONTROL TAKEN FROM ESSEX-WESTFORD STP 2912 (1) [10C226]

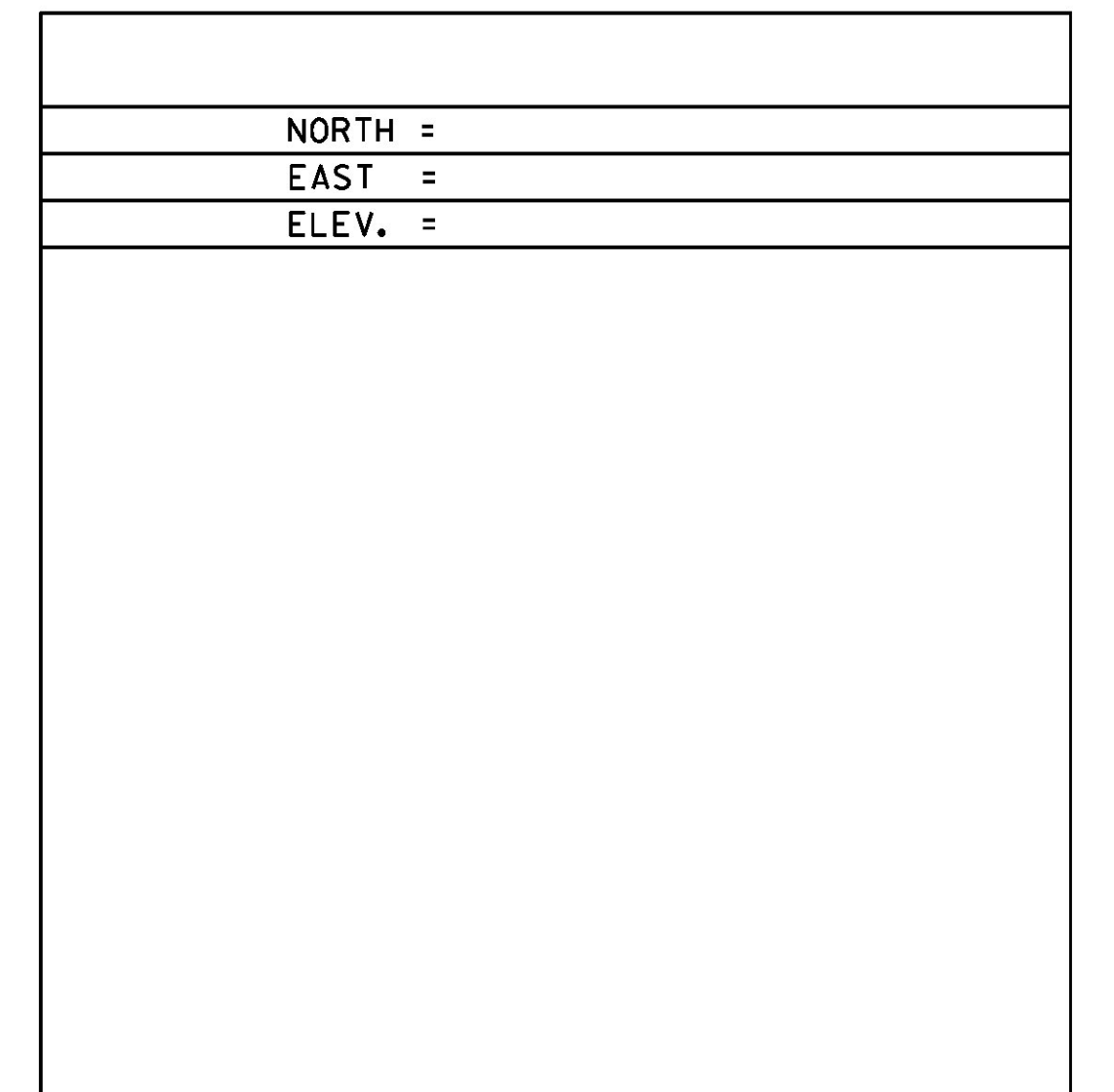
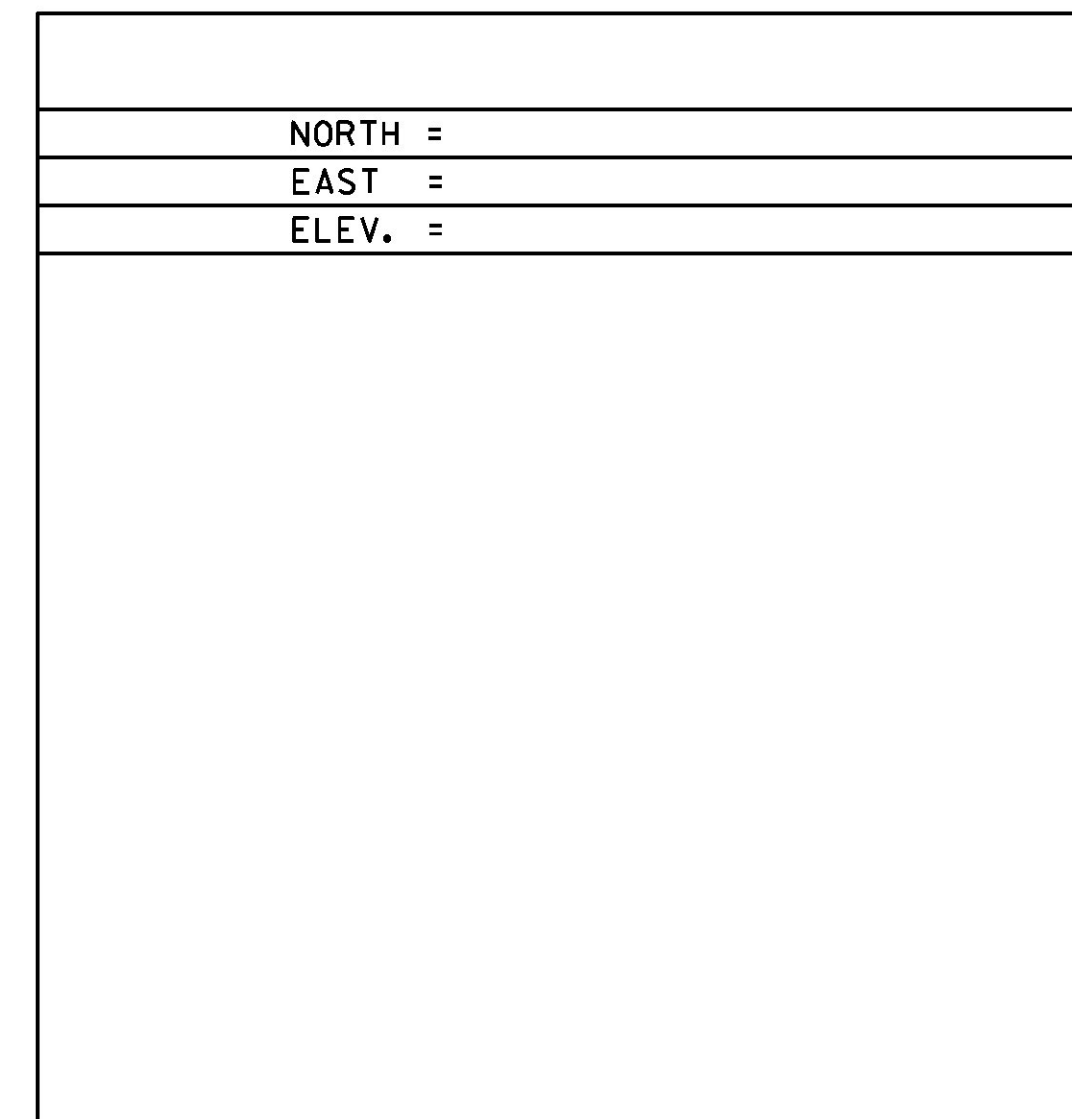
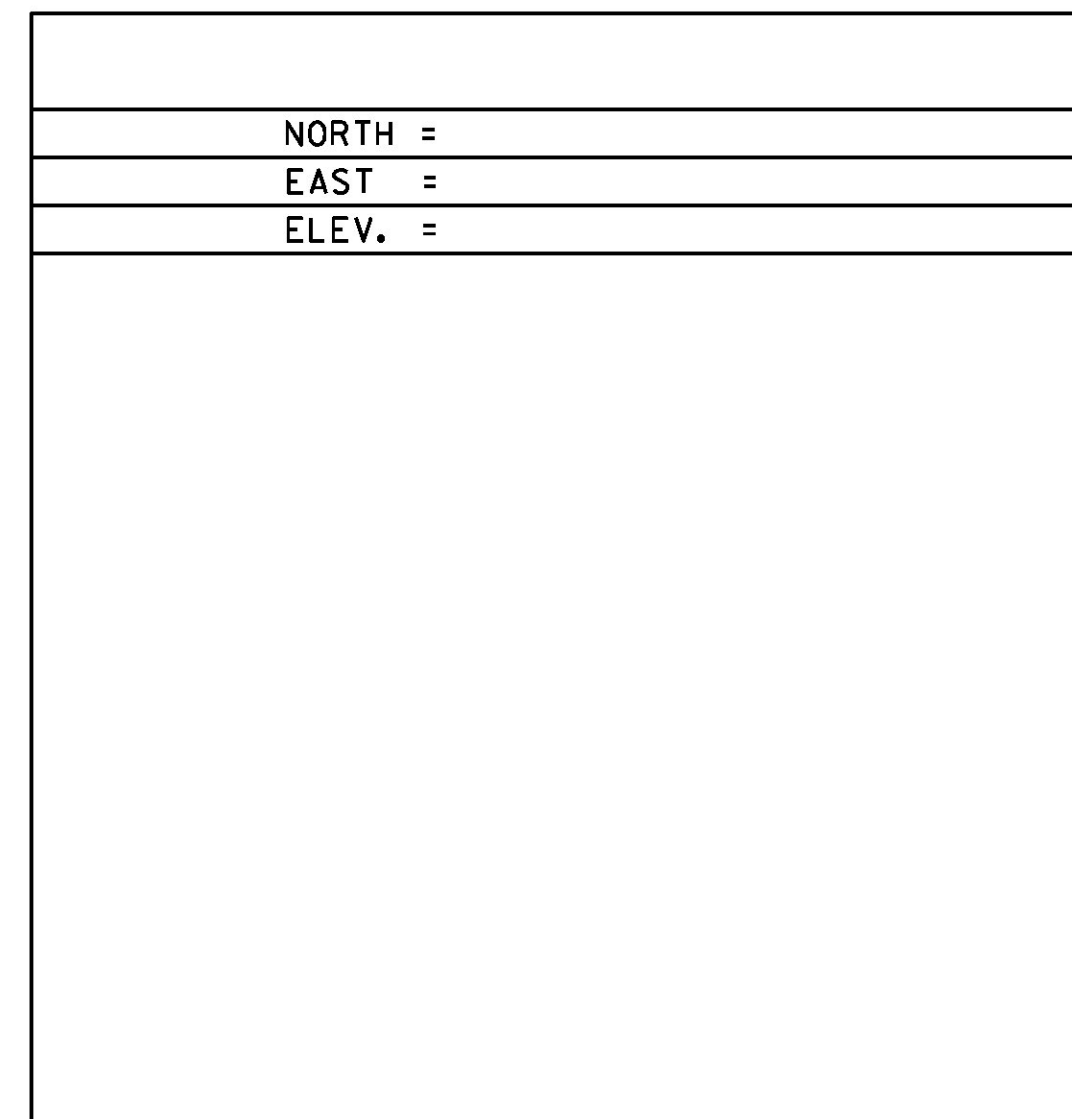
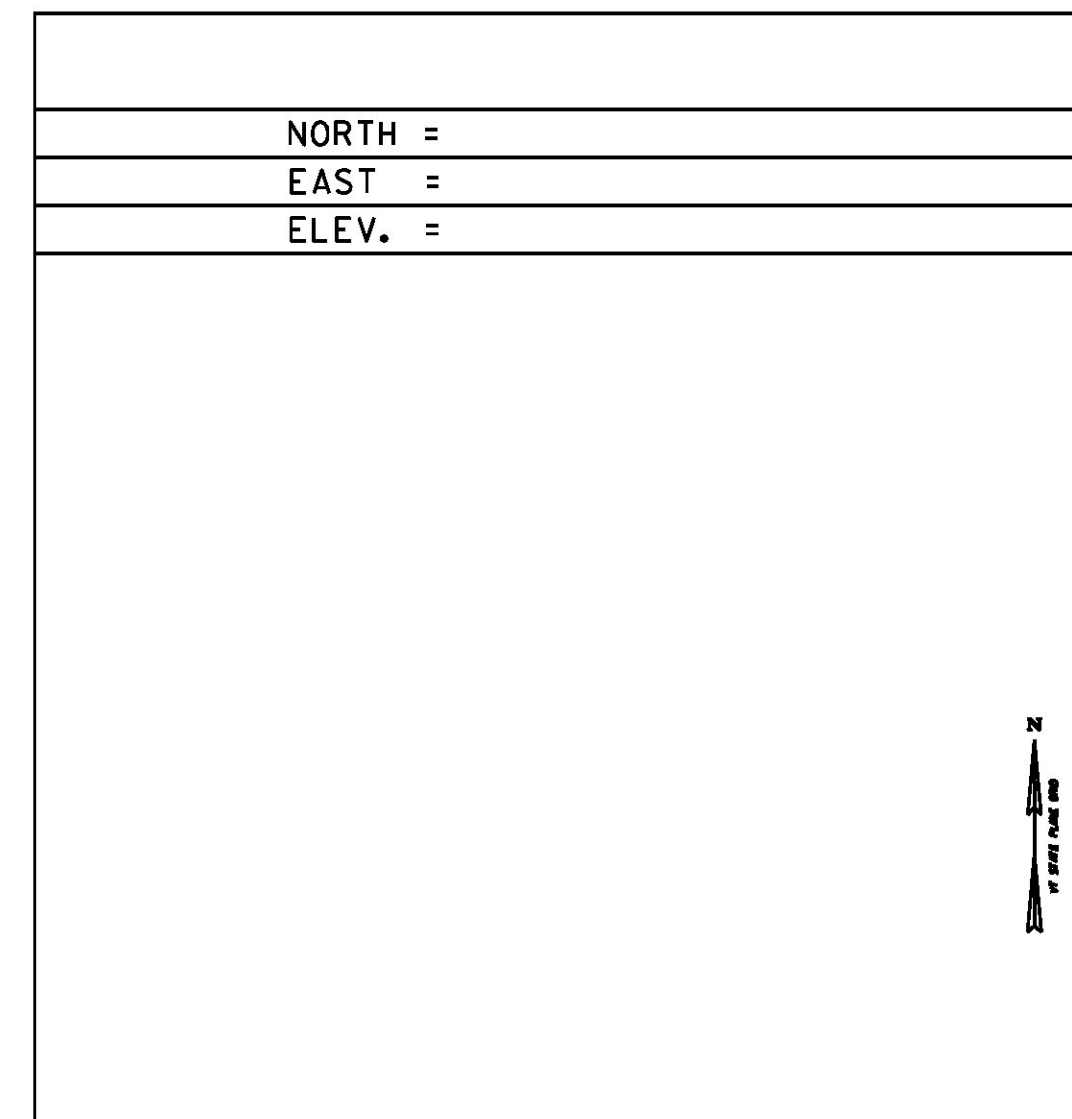
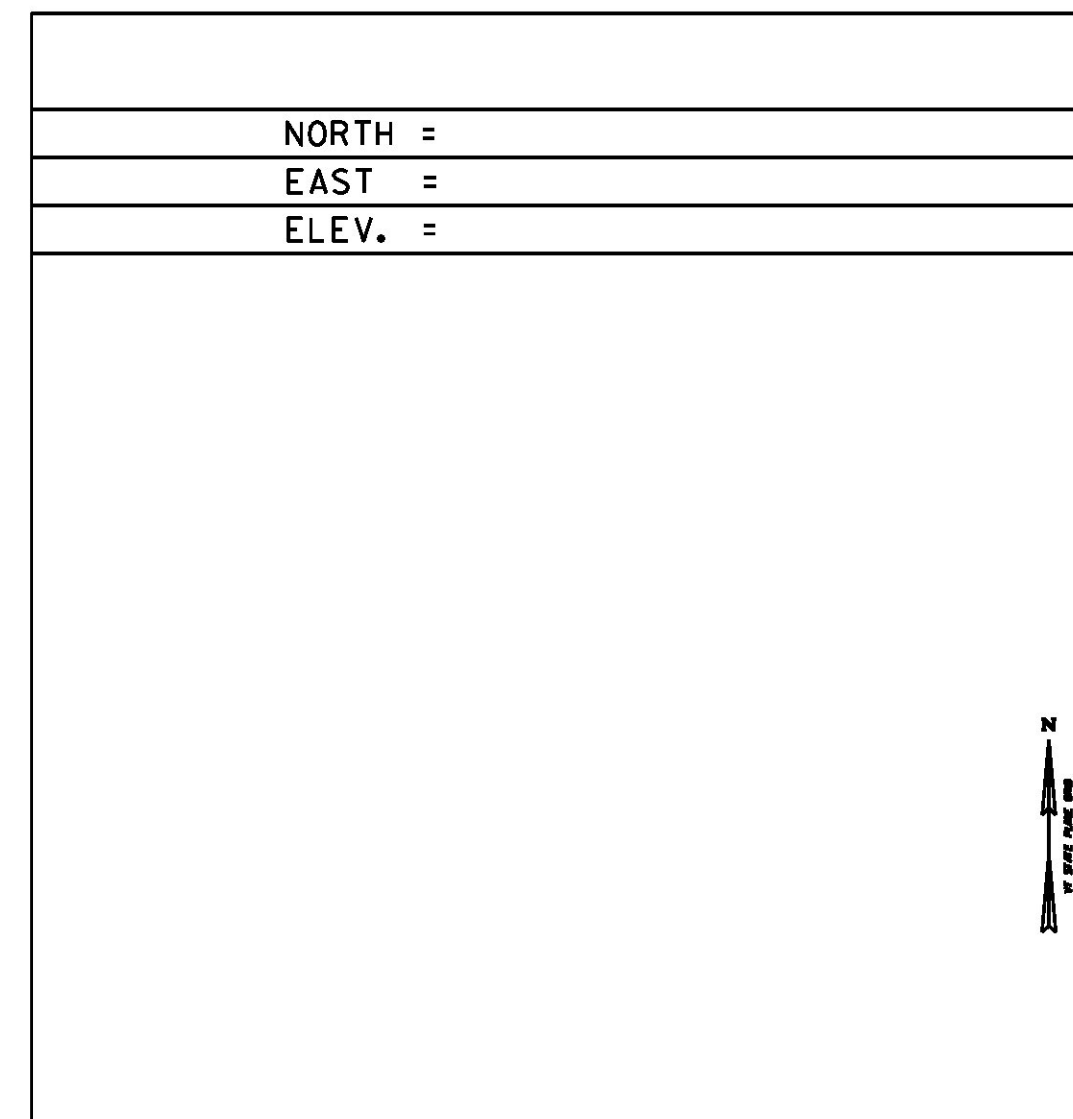
TRAVERSE TIES



\*TRAVERSE COMPLETED BY VSE



ALIGNMENT TIES



DATUM  
 VERTICAL NAVD 88  
 HORIZONTAL NAD 83  
 ADJUSTMENT N/A

PROJECT NAME: ESSEX  
 PROJECT NUMBER: STP 2912(2)  
 FILE NAME: X14V256TI.DGN PLOT DATE: 08-JUN-2015  
 PROJECT LEADER: M. FOWLER DRAWN BY: G. HITCHCOCK  
 DESIGNED BY: VTRANS CHECKED BY: P. BEYOR  
 TIE SHEET SHEET 3 OF 17

NOTES:

1. MATERIALS AND PLACEMENT FOR SPECIAL PROVISION (GABION MATTRESS) SHALL MEET THE REQUIREMENTS OF SECTION 900 OF THE SPECIAL PROVISIONS.

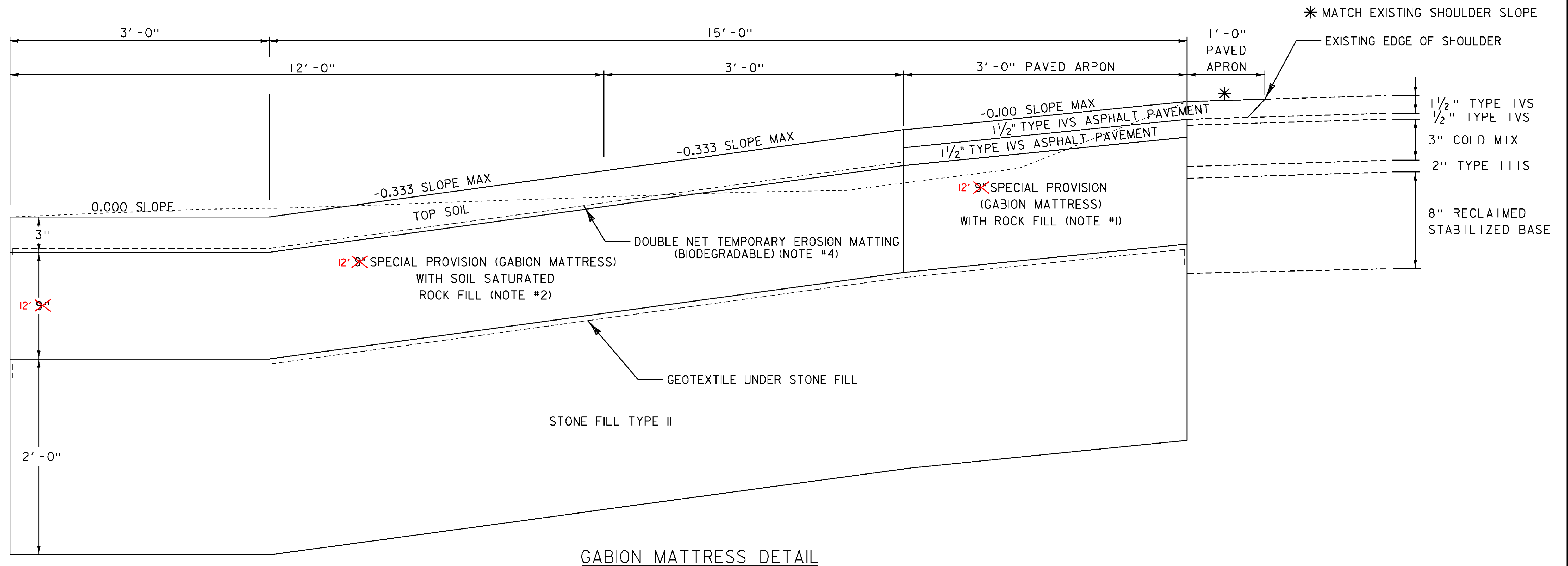
2. GEOTEXTILE UNDER STONE FILL SHALL BE PLACED ON TOP OF THE STONE FILL TYPE II. GEOTEXTILE SHALL HAVE A ONE FOOT KEY AROUND THE PERIMETER OF THE STONE FILL TYPE II AND A ONE FOOT OVERLAP BETWEEN EACH ROLL. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 649.31, GEOTEXTILE UNDER STONE FILL.

3. DOUBLE NET TEMPORARY EROSION MATTING (BIODEGRADABLE) WITH A 12 MONTH LONGEVITY SHALL BE ATTACHED TO THE TOP OF THE WELDED WIRE MESH OF THE GABION MATTRESS. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 653.20, TEMPORARY EROSION MATTING.

4. TOP SOIL SHALL BE PLACED ON TOP OF THE DOUBLE NET TEMPORARY EROSION MATTING (BIODEGRADABLE) AND SHALL THEN BE HYDROSEEDDED/HYDROMULCHED. TOP SOIL SHALL FILL IN ALL GAPS BETWEEN THE GABION MATTRESS AND ADJACENT SOIL AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER THE APPROPRIATE SECTION 651 CONTRACT ITEMS

IF VEGETATION IS NOT ESTABLISHED BY THE CONTRACT COMPLETION DATE A LAYER OF DOUBLE NET TEMPORARY EROSION MATTING (BIODEGRADABLE) SHALL BE PLACED ON THE TOPSOIL AS DIRECTED BY THE ENGINEER. A QUANTITY FOR DOUBLE NET TEMPORARY EROSION MATTING (BIODEGRADABLE) HAS BEEN ADDED TO THE QUANTITIES. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 653.20, TEMPORARY EROSION MATTING.

5. EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER.

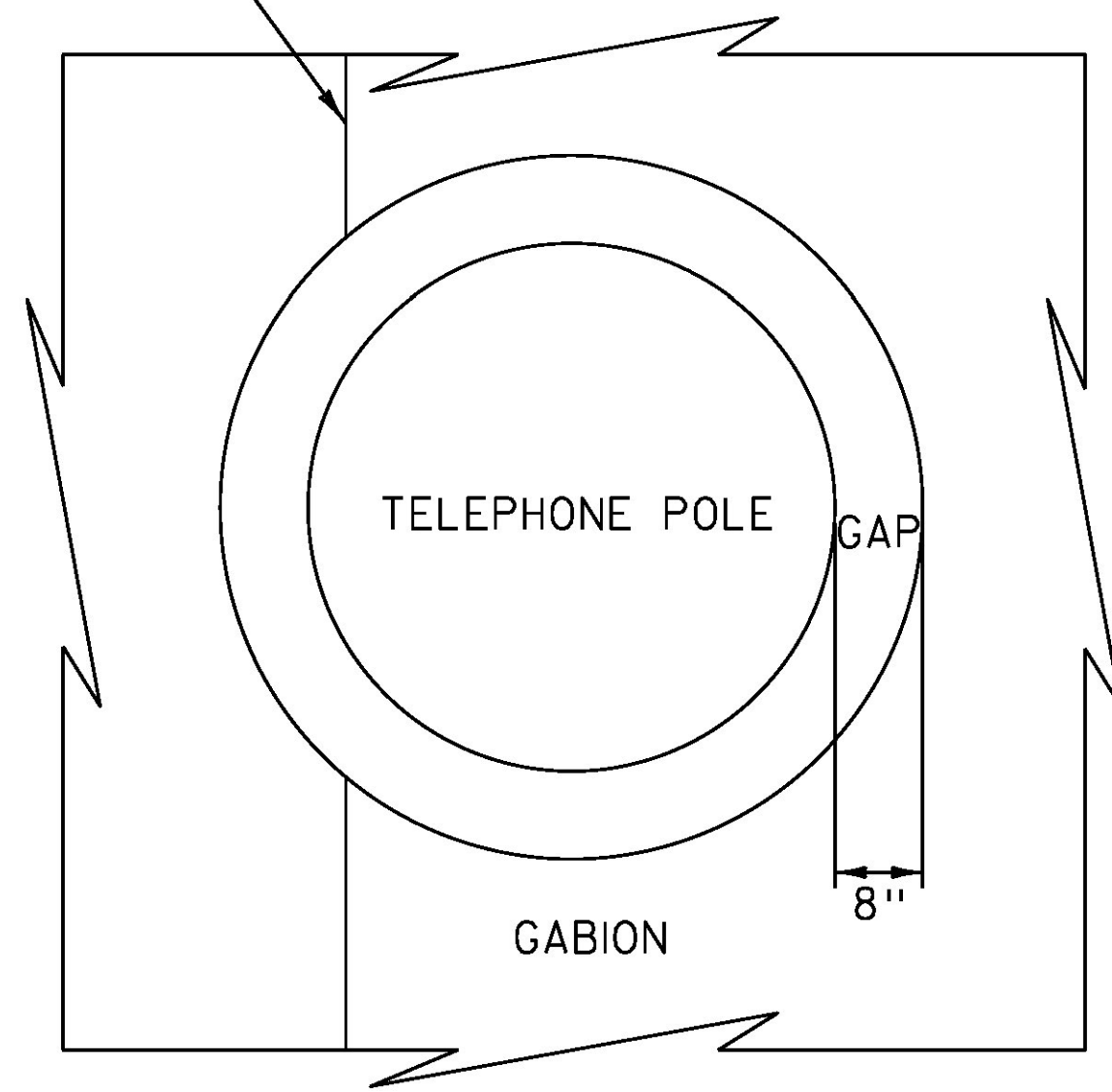


GABION MATTRESS DETAIL

NOT TO SCALE

PROJECT NAME: ESSEX	PLOT DATE: 18-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N. PAPPAS
FILE NAME: p14v256_details.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	SHEET 4 OF 17
DESIGNED BY: N. PAPPAS	
GABION WALL DETAIL SHEET 1	

SPECIAL PROVISION  
(GABION MATTRESS)



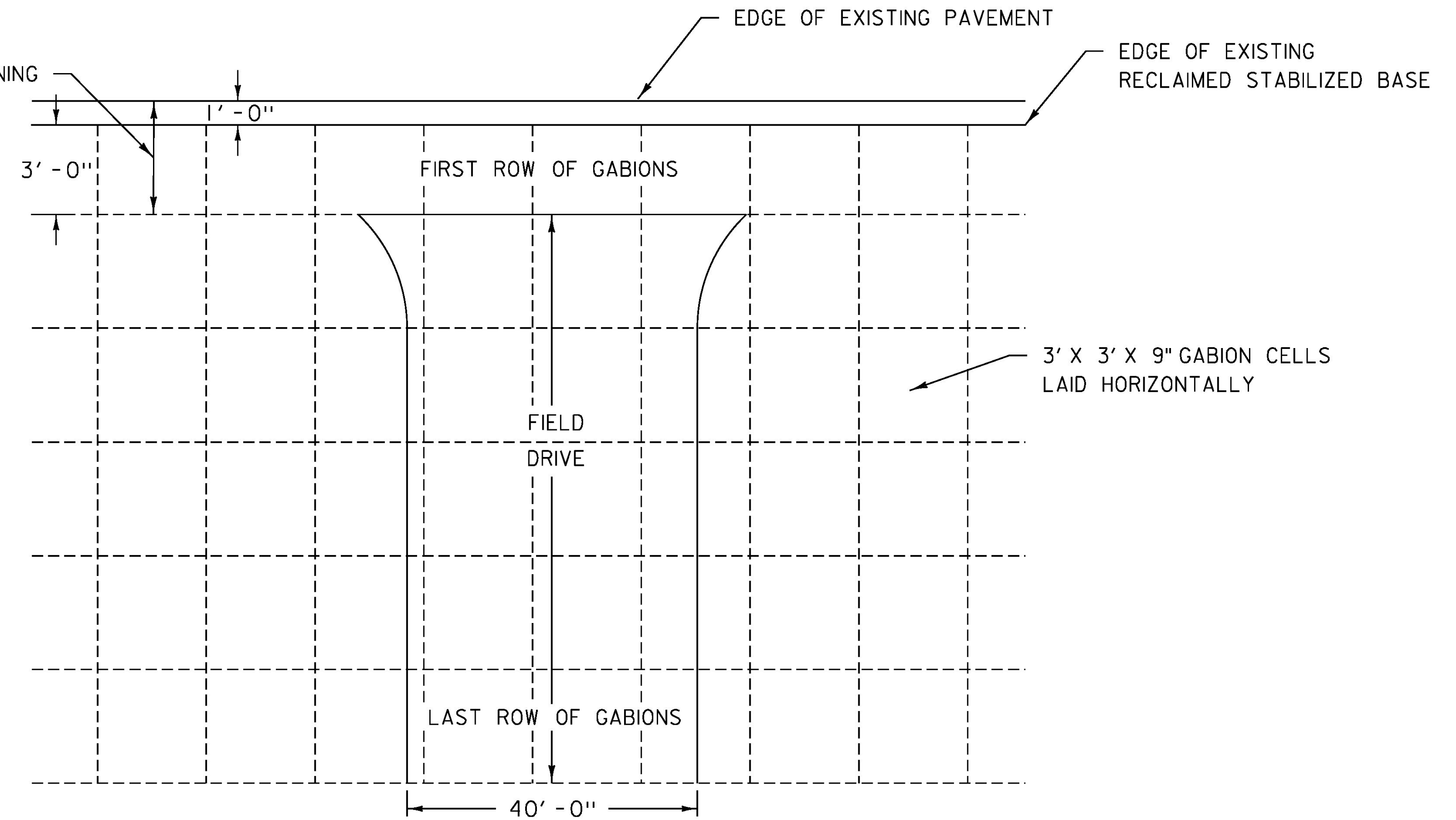
DETAIL AROUND UTILITY POLES

NOTE: TAMP SOIL SATURATED ROCK FILL AS DIRECTED BY THE ENGINEER BETWEEN THE POLE AND GABION MATTRESS. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 900.608 SPECIAL PROVISION (GABION MATTRESS).

POLE LOCATIONS

- STA 46+25 LT
- STA 48+28 LT
- STA 50+10 LT
- STA 52+28 LT

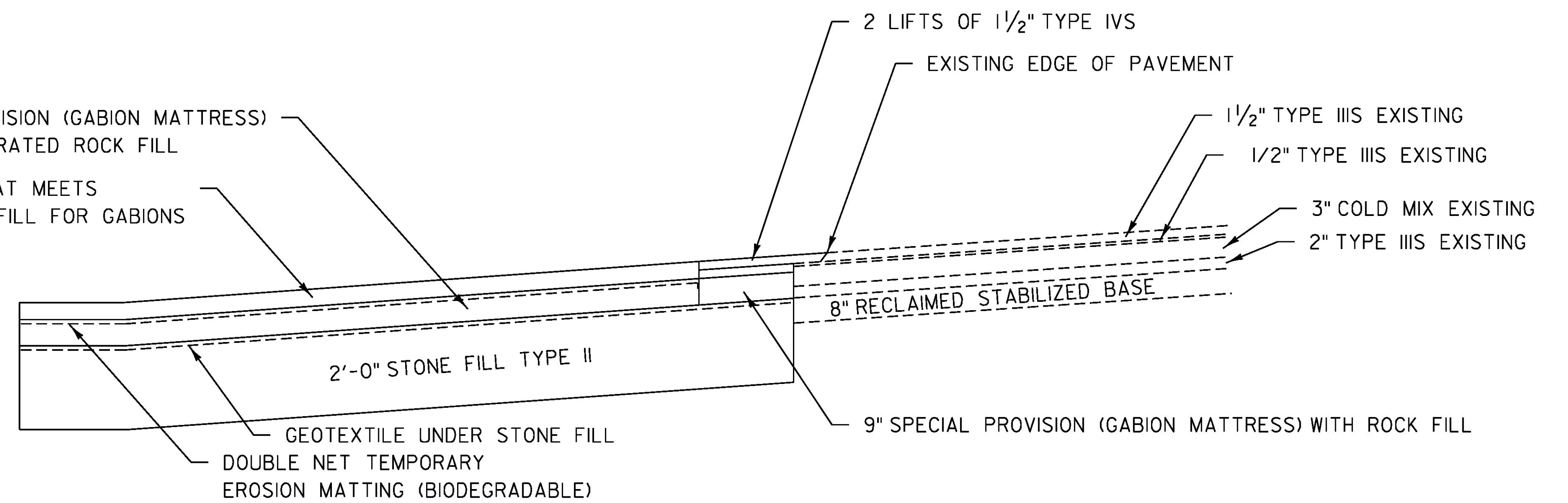
4' PAVED SHOULDER WIDENING  
OVER GABIONS TYPICAL



PLAN VIEW OF FIELD DRIVE

9" SPECIAL PROVISION (GABION MATTRESS)  
WITH SOIL SATURATED ROCK FILL

VEHICLE TRACKING PAD THAT MEETS  
SUBSECTION 706.06 ROCK FILL FOR GABIONS



CROSS SECTION OF DRIVE STA 47+66 LT

NOT TO SCALE

PROJECT NAME: ESSEX	PLOT DATE: 08-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N. PAPPAS
FILE NAME: p14v256_details.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	GABION WALL DETAIL SHEET 2
DESIGNED BY: N. PAPPAS	SHEET 5 OF 17

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
								EROSION CONTROL	ROADWAY	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									7		7		EACH	REMOVING MEDIUM TREES	201.15	-			
									7		7		EACH	REMOVING MEDIUM STUMPS	201.20	-			
									1725		1725		CY	COMMON EXCAVATION	203.15	40			
									1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			
									4		4		CWT	EMULSIFIED ASPHALT	404.65	1			
									1		1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			
									20		20		HR	POWER BROOM RENTAL, TYPE I	608.30	EST			
									1150		1150		CY	STONE FILL, TYPE II	613.11	17			
									400		400		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST			
									400		400		HR	FLAGGERS	630.15	EST			
										1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
									1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
									1		1		LS	TRAFFIC CONTROL	641.10	-			
									2		2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
									2500		2500		SY	GEOTEXTILE UNDER STONE FILL	649.31	133			
								350			350		SY	GEOTEXTILE FOR SILT FENCE	649.51	17			
								450			450		LB	SEED	651.15	28			
								1780			1780		LB	FERTILIZER	651.18	20			
								3			3		TON	AGRICULTURAL LIMESTONE	651.20	1			
								3			3		TON	HAY MULCH	651.25	1			
									150		150		CY	TOPSOIL	651.35	8			
								2100			2100		SY	TEMPORARY EROSION MATTING	653.20	88			
								7			7		CY	VEHICLE TRACKING PAD	653.35	2			
								1000			1000		LF	PROJECT DEMARCATION FENCE	653.55	70			
									1		1		EACH	REMOVING SIGNS	675.50	-			
									1		1		EACH	ERECTING SALVAGED SIGNS	675.60	-			
									1		1		EACH	SETTING SALVAGED POSTS	675.61	-			
									20		20		EACH	DELINEATOR WITH STEEL POST	676.10	-			
									450		450		CY	SPECIAL PROVISION (GABION MATTRESS)	900.608	25			
									1		1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I.)	900.650	-			
									65		65		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	-			

PROJECT NAME: ESSEX  
PROJECT NUMBER: STP 2912(2)  
FILE NAME: p14v256\_details.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: N. PAPPAS  
QUANTITY SHEET

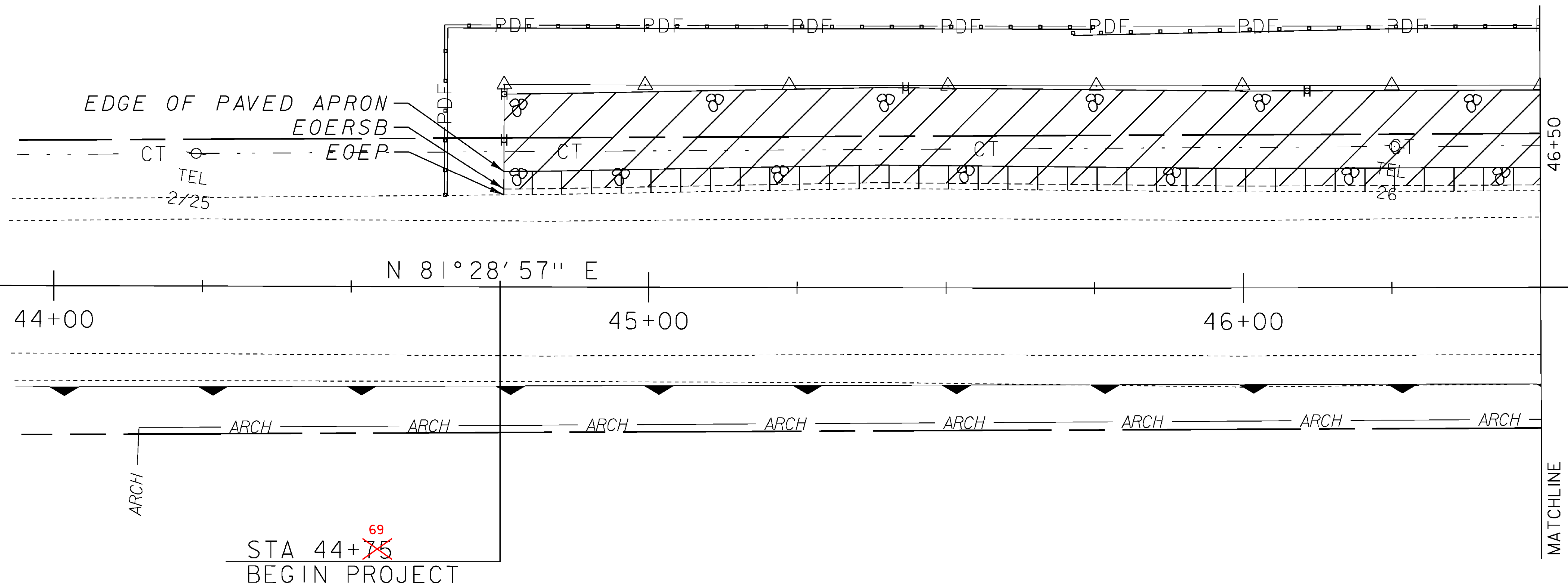
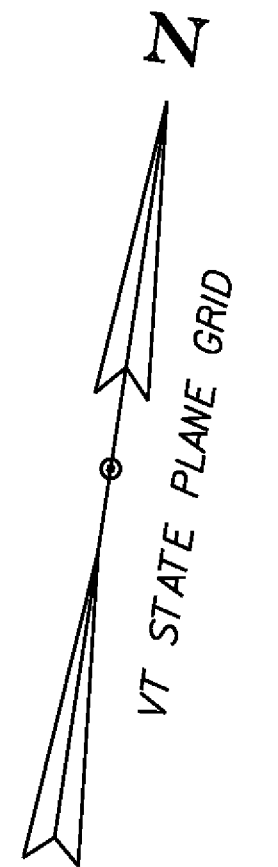
PLOT DATE: 08-JUN-2015  
DRAWN BY: N. PAPPAS  
CHECKED BY: M. FOWLER  
SHEET 6 OF 17

STONE FILL, TYPE II  
 STA 44+75 TO 46+50 LT  
 GEOTEXTILE UNDER STONE FILL  
 STA 44+75 TO 46+50 LT  
 GEOTEXTILE FOR SILT FENCE  
 STA 44+66 TO 46+50 LT

SPECIAL PROVISION (GABION MATTRESS)  
 STA 44+75 TO 46+50 LT

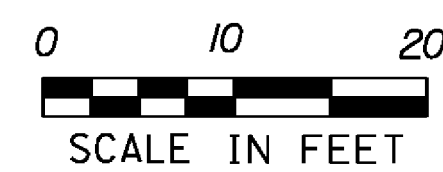
PROJECT DEMARCATION FENCE  
 STA 44+66 TO 46+50 LT

DELINEATOR WITH STEEL POST  
 STA 44+75 LT (24.71 FT)  
 STA 44+75 LT (32.42 FT)  
 STA 45+43 LT (33.63 FT)  
 STA 46+11 LT (33.13 FT)



LEGEND	
	CUT AND FILL LIMITS
	EOERSB EDGE OF EXISTING RECLAIMED STABILIZED BASE
	EOEP EDGE OF EXISTING PAVEMENT
	GABION MATTRESS
	PAVED APRON

NOTE: ALL UTILITY POLES NEED TO BE SUPPORTED WHILE WORK IS BEING CONDUCTED NEAR A UTILITY POLE. CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANY. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



PROJECT NAME: ESSEX	PLOT DATE: 08-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N.PAPPAS
FILE NAME: pl4v256_bdr.dgn	CHECKED BY: M. FOWLER
DESIGNED BY: N. PAPPAS	SHEET 7 OF 17
PLAN SHEET 1	

CONSTRUCT DRIVE  
STA 47+66 LT - GRAVEL

STONE FILL, TYPE II  
STA 46+50 TO 49+00 LT

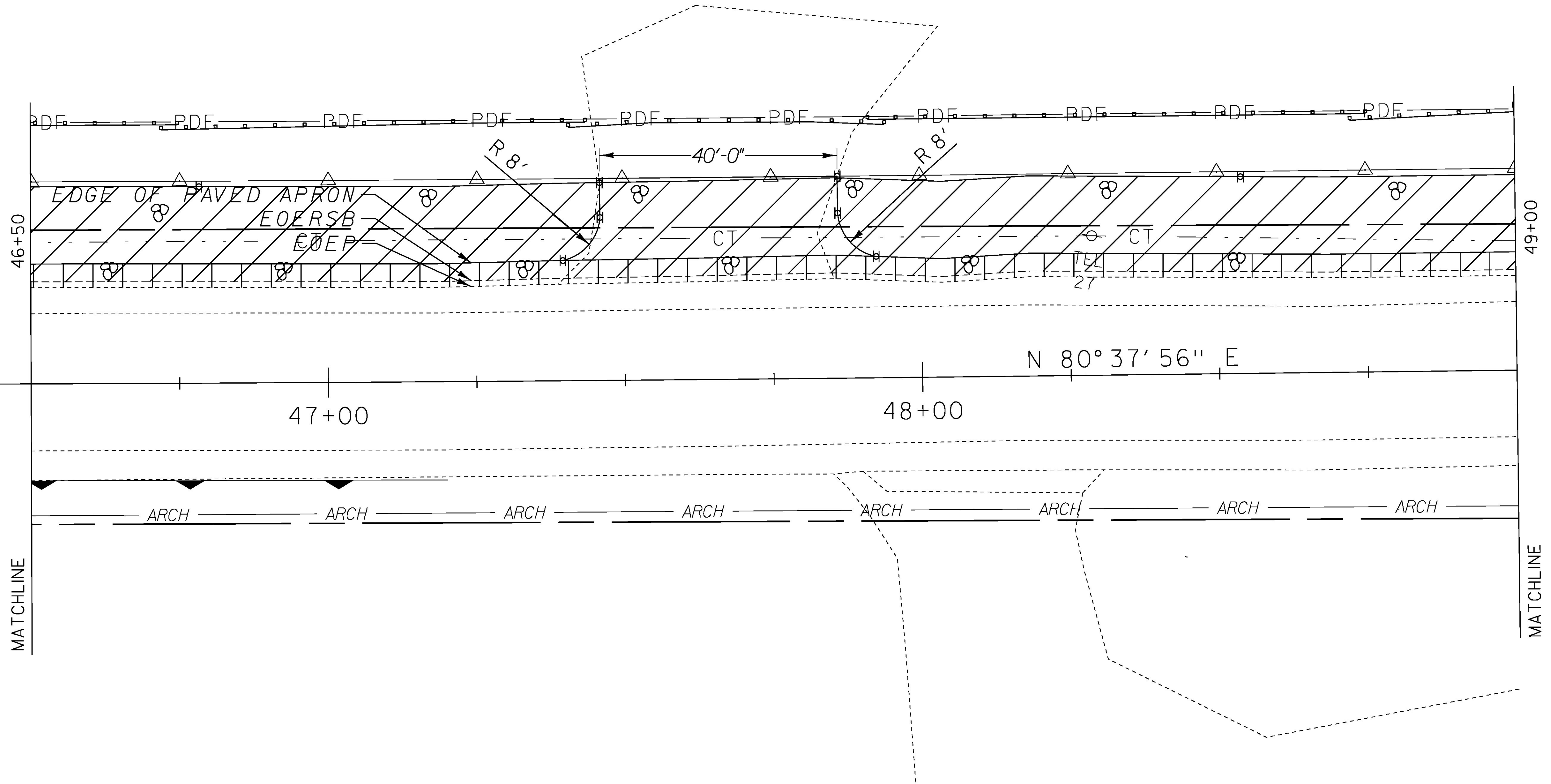
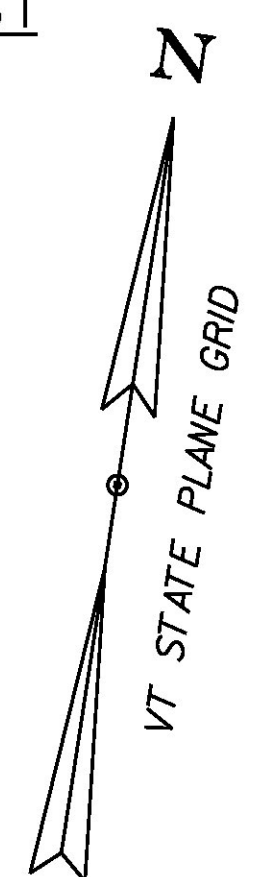
GEOTEXTILE FOR SILT FENCE  
STA 46+50 TO 49+00 LT

SPECIAL PROVISION (GABION MATTRESS)  
STA 46+50 TO 49+00 LT

PROJECT DEMARCATION FENCE  
STA 46+50 TO 49+00 LT

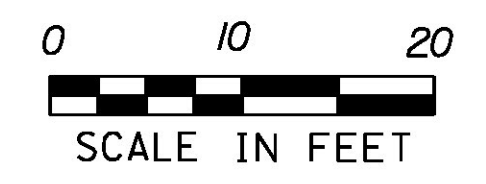
DELINEATOR WITH STEEL POST  
STA 46+78 LT (33.09 FT)

STA 47+40 LT (20.25 FT)  
STA 47+46 LT (27.44 FT)  
STA 47+46 LT (33.31 FT)  
STA 47+86 LT (27.80 FT)  
STA 47+86 LT (34.00 FT)  
STA 47+92 LT (20.43 FT)  
STA 48+54 LT (33.14 FT)



LEGEND	
	CUT AND FILL LIMITS
	EOERSB EDGE OF EXISTING RECLAIMED STABILIZED BASE
	EOEP EDGE OF EXISTING PAVEMENT
	GABION MATTRESS
	PAVED APRON

NOTE: ALL UTILITY POLES NEED TO BE SUPPORTED WHILE WORK IS BEING CONDUCTED NEAR A UTILITY POLE. CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANY. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



PROJECT NAME:	ESSEX	PLOT DATE:	08-JUN-2015
PROJECT NUMBER:	STP 2912(2)	DRAWN BY:	N. PAPPAS
FILE NAME:	p14v256_bdr.dgn	DESIGNED BY:	N. PAPPAS
PROJECT LEADER:	M. FOWLER	CHECKED BY:	M. FOWLER
PLAN SHEET 2		SHEET	8 OF 17

REMOVE MEDIUM TREES  
 STA 51+01 LT (2)  
 STA 51+06 LT  
 STA 51+18 LT

STONE FILL, TYPE II  
 STA 49+00 TO 51+50 LT  
 GEOTEXTILE UNDER STONE FILL  
 STA 49+00 TO 51+50 LT

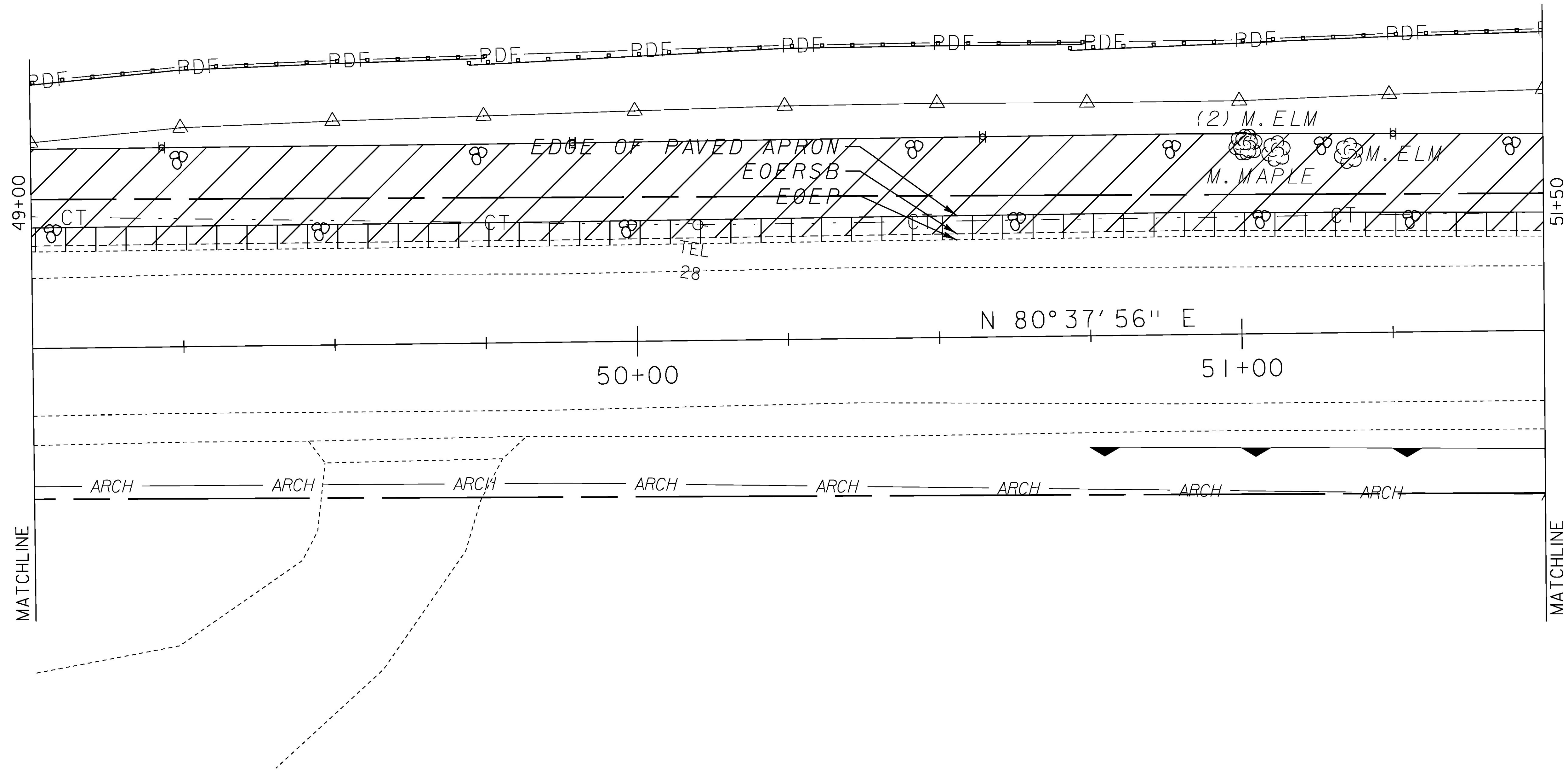
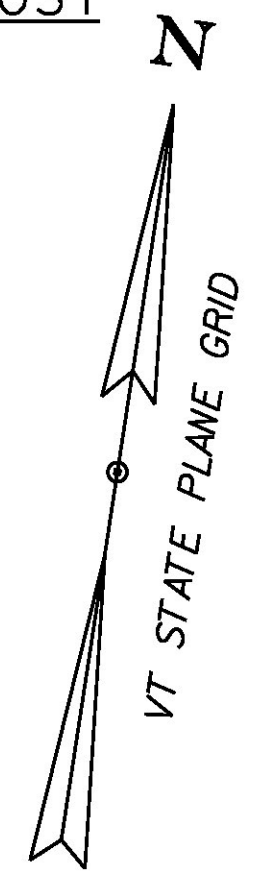
GEOTEXTILE FOR SILT FENCE  
 STA 49+00 TO 51+50 LT

SPECIAL PROVISION (GABION MATTRESS)  
 STA 49+00 TO 51+50 LT

PROJECT DEMARCATION FENCE  
 STA 49+00 TO 51+50 LT

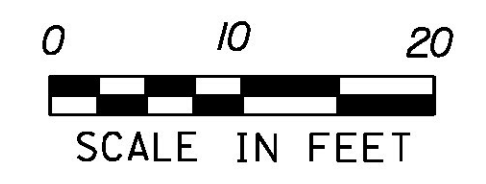
DELINEATOR WITH STEEL POST  
 STA 49+22 LT (32.94 FT)  
 STA 49+90 LT (33.12 FT)  
 STA 50+57 LT (33.12 FT)  
 STA 51+25 LT (32.82 FT)

REMOVE MEDIUM STUMPS  
 STA 51+01 LT (2)  
 STA 51+06 LT  
 STA 51+18 LT



LEGEND	
○—△—○	CUT AND FILL LIMITS
—○—	EOERSB EDGE OF EXISTING RECLAIMED STABILIZED BASE
—□—	EOEP EDGE OF EXISTING PAVEMENT
▨	GABION MATTRESS
▭	PAVED APRON

NOTE: ALL UTILITY POLES NEED TO BE SUPPORTED WHILE WORK IS BEING CONDUCTED NEAR A UTILITY POLE. CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANY. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



PROJECT NAME:	ESSEX	PLOT DATE:	08-JUN-2015
PROJECT NUMBER:	STP 2912(2)	DRAWN BY:	N.PAPPAS
FILE NAME:		CHECKED BY:	M. FOWLER
PROJECT LEADER:	M. FOWLER	PLAN SHEET:	D:\v256_bdr.dgn
DESIGNED BY:	N. PAPPAS	SHEET:	9 OF 17

REMOVE MEDIUM TREES  
 STA 52+10 LT  
 STA 52+42 LT  
 STA 52+47 LT

REMOVE MEDIUM STUMPS  
 STA 52+10 LT  
 STA 52+42 LT  
 STA 52+47 LT

STONE FILL, TYPE II  
 STA 51+50 TO 53+25 LT  
 GEOTEXTILE UNDER STONE FILL  
 STA 51+50 TO 53+25 LT

GEOTEXTILE FOR SILT FENCE  
 STA 51+50 TO 53+36 LT

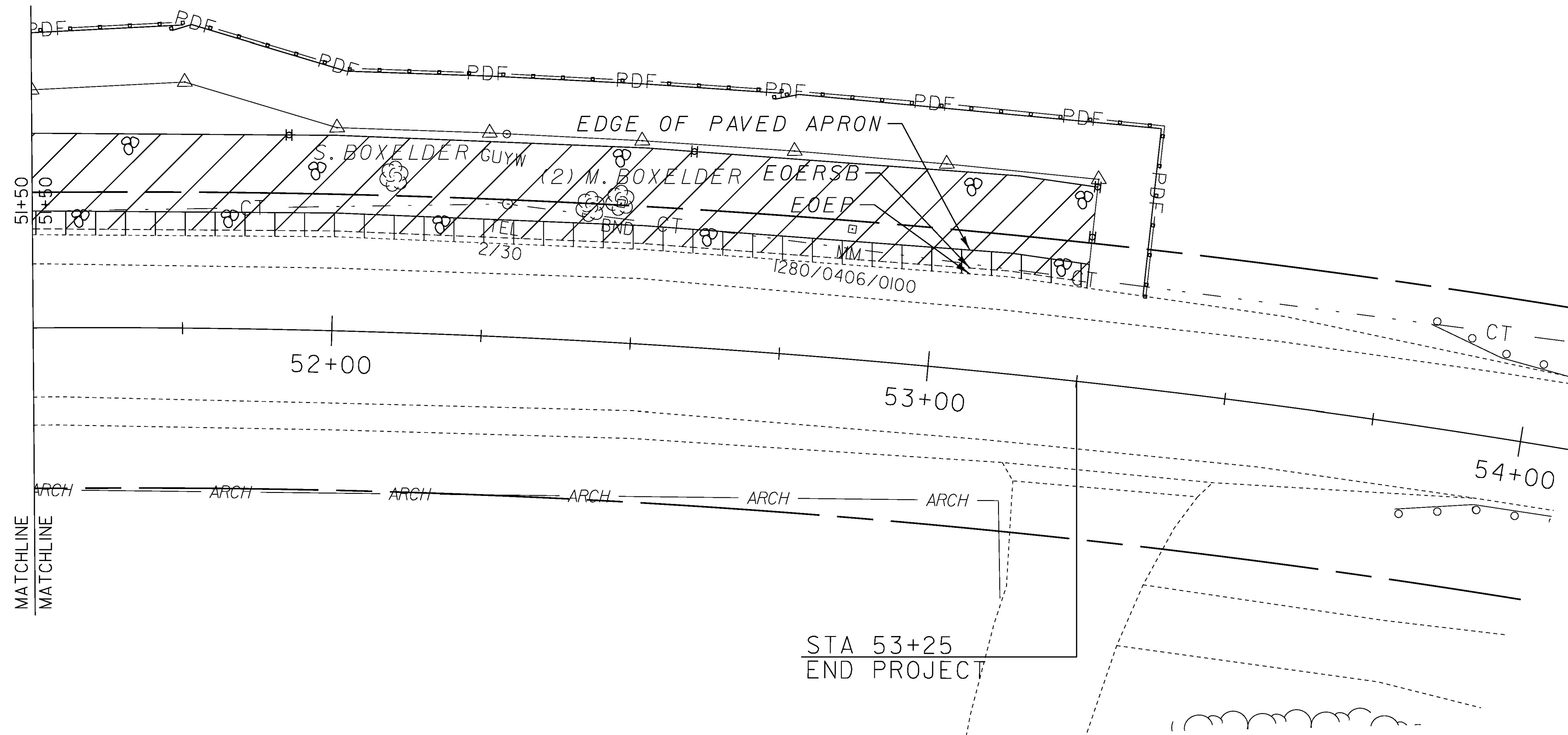
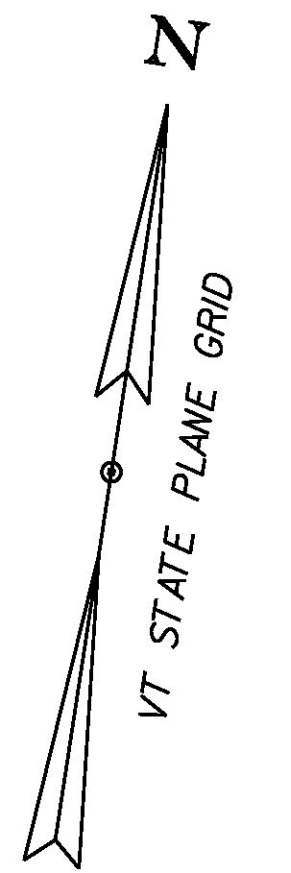
SPECIAL PROVISION (GABION MATTRESS)  
 STA 51+50 TO 53+25 LT  
 PROJECT DEMARCATION FENCE  
 STA 51+50 TO 53+36 LT

REMOVING SIGNS  
 STA 52+85.50 LT

ERECTING SALVAGED SIGNS  
 STA 52+85.50 LT

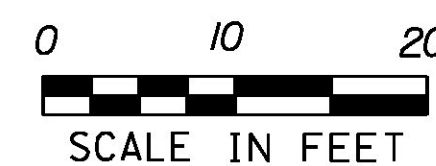
SETTING SALVAGED SIGN POSTS  
 STA 52+85.50 LT

DELINEATOR WITH STEEL POST  
 STA 51+92 LT (32.58 FT)  
 STA 52+59 LT (32.74 FT)  
 STA 53+25 LT (24.29 FT)  
 STA 53+25 LT (32.69 FT)

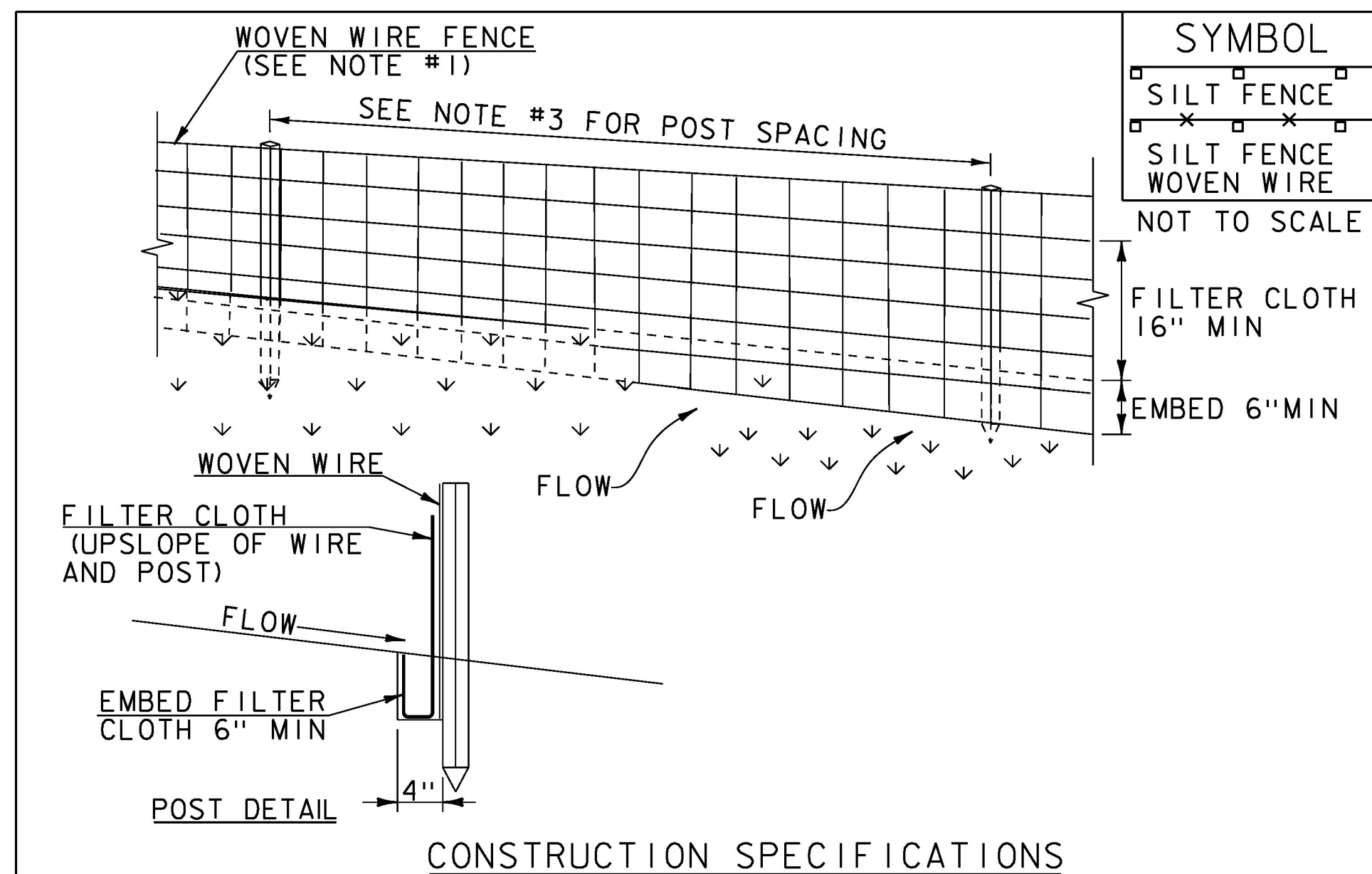


LEGEND	
	CUT AND FILL LIMITS
	EDGE OF EXISTING RECLAIMED STABILIZED BASE
	EDGE OF EXISTING PAVEMENT
	GABION MATTRESS
	PAVED APRON

NOTE: ALL UTILITY POLES NEED TO BE SUPPORTED WHILE WORK IS BEING CONDUCTED NEAR A UTILITY POLE. CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITY COMPANY. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



PROJECT NAME: ESSEX	PLOT DATE: 08-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N.PAPPAS
FILE NAME: pl4v256_bdr.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	SHEET 10 OF 17
DESIGNED BY: N. PAPPAS	
PLAN SHEET 4	



SYMBOL	
	SILT FENCE
	WOVEN WIRE

**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

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

**SILT FENCE**

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51).

REVISIONS		
MARCH 21, 2008	WHF	
DECEMBER 11, 2008	WHF	
JANUARY 13, 2009	WHF	

VAOT LOW GROW/FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

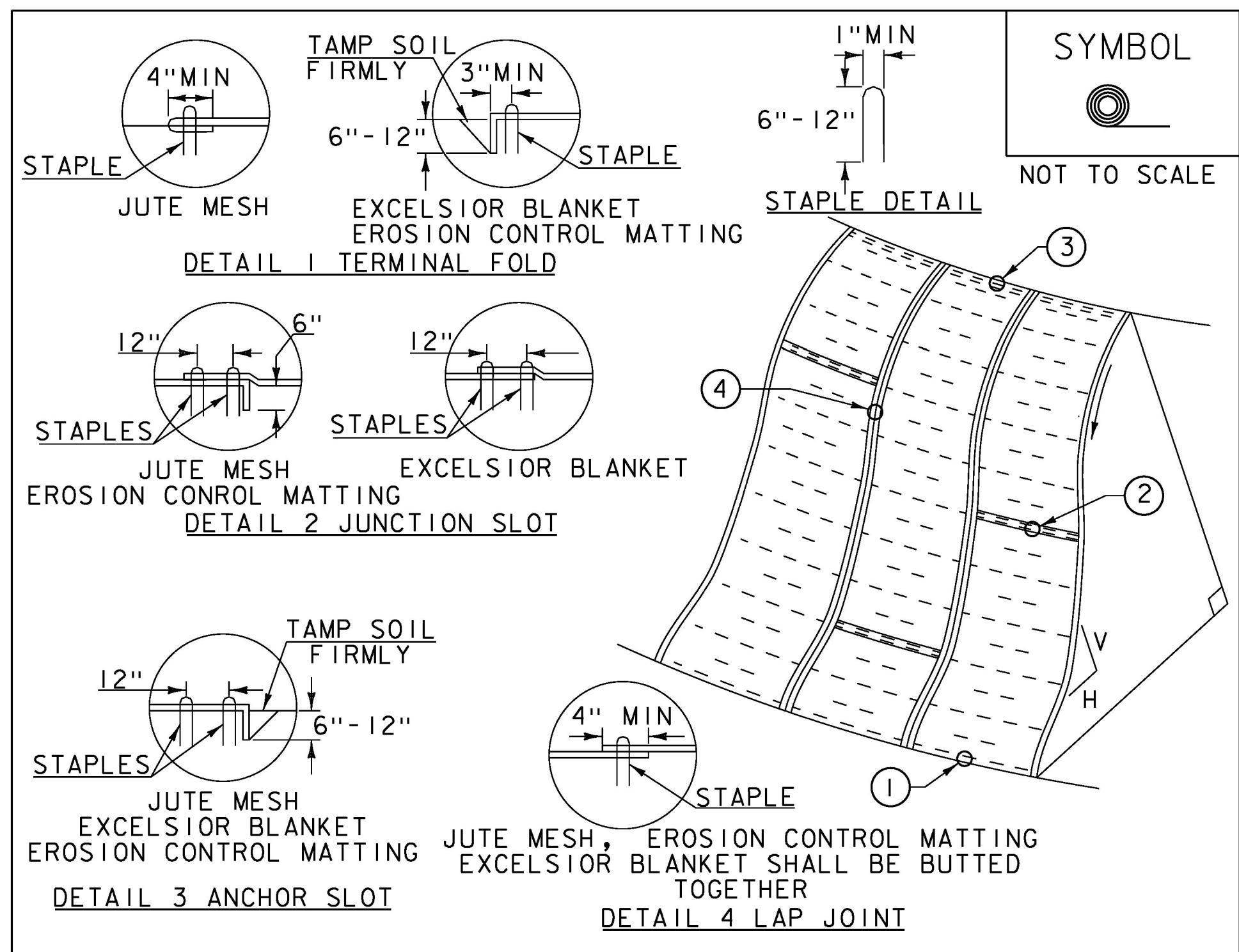
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. 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.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

**TURF ESTABLISHMENT**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651

REVISIONS		
JANUARY 12, 2015	WHF	



SYMBOL	
	ROLLED EROSION CONTROL PRODUCT

**CONSTRUCTION SPECIFICATIONS**

1. APPLY TO SLOPES GREATER THAN 3H: IV 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' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' 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

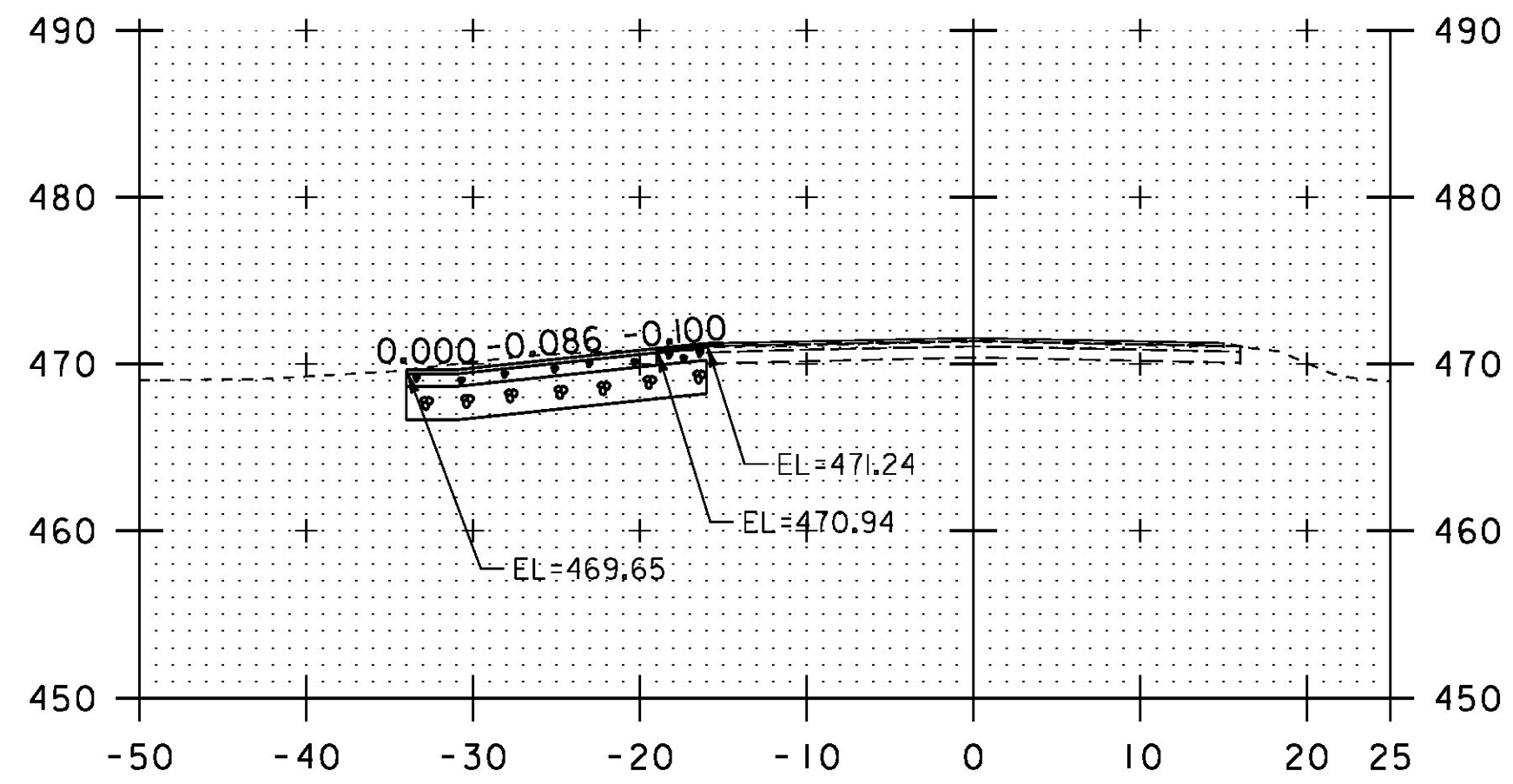
**ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.  
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20).

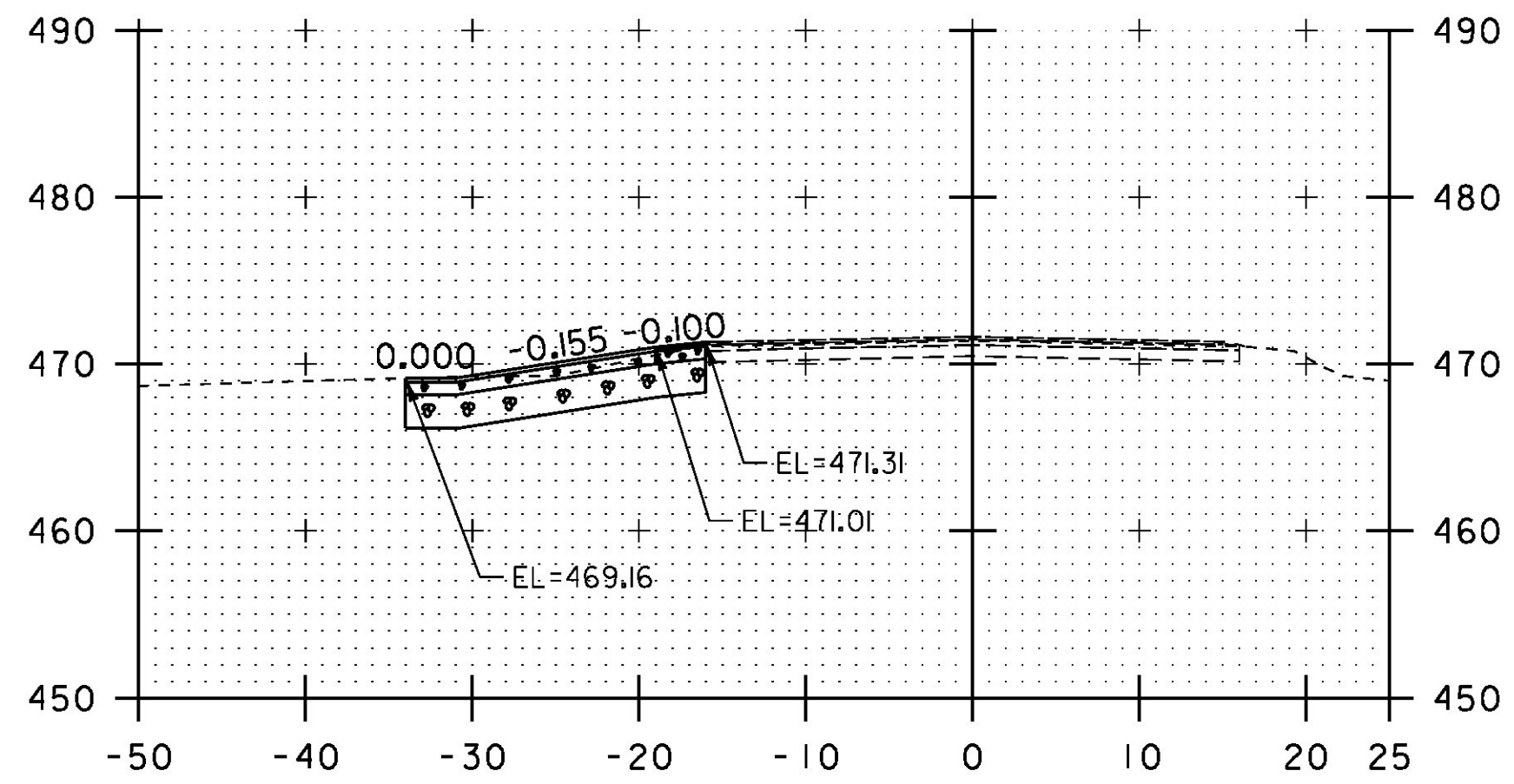
REVISIONS		
APRIL 16, 2007	JMF	
JANUARY 13, 2009	WHF	

NOT TO SCALE

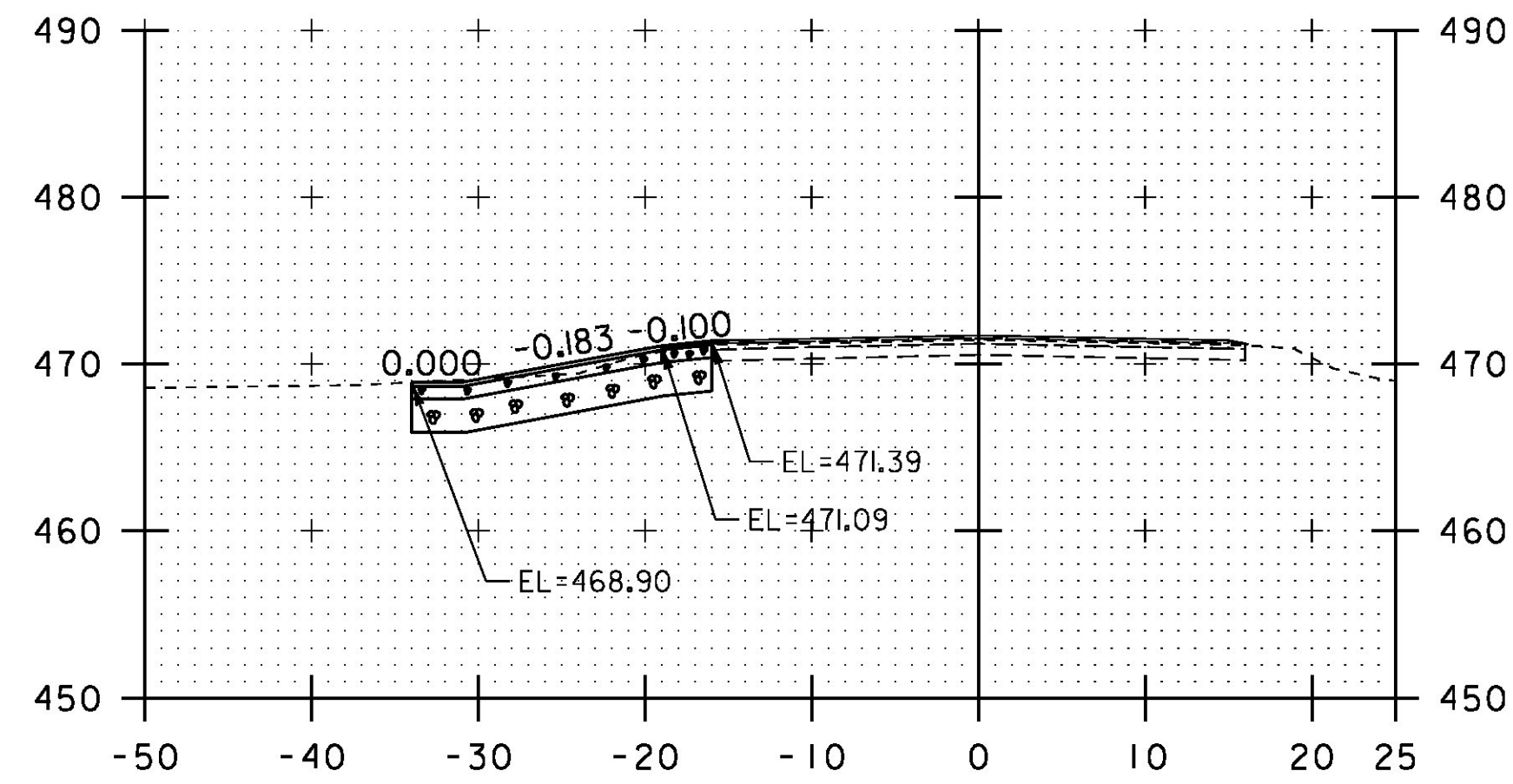
PROJECT NAME: ESSEX	PLOT DATE: 08-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N. PAPPAS
FILE NAME: pl4v256_details.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	DESIGNED BY: N. PAPPAS
EROSION CONTROL DETAIL	SHEET 11 OF 17



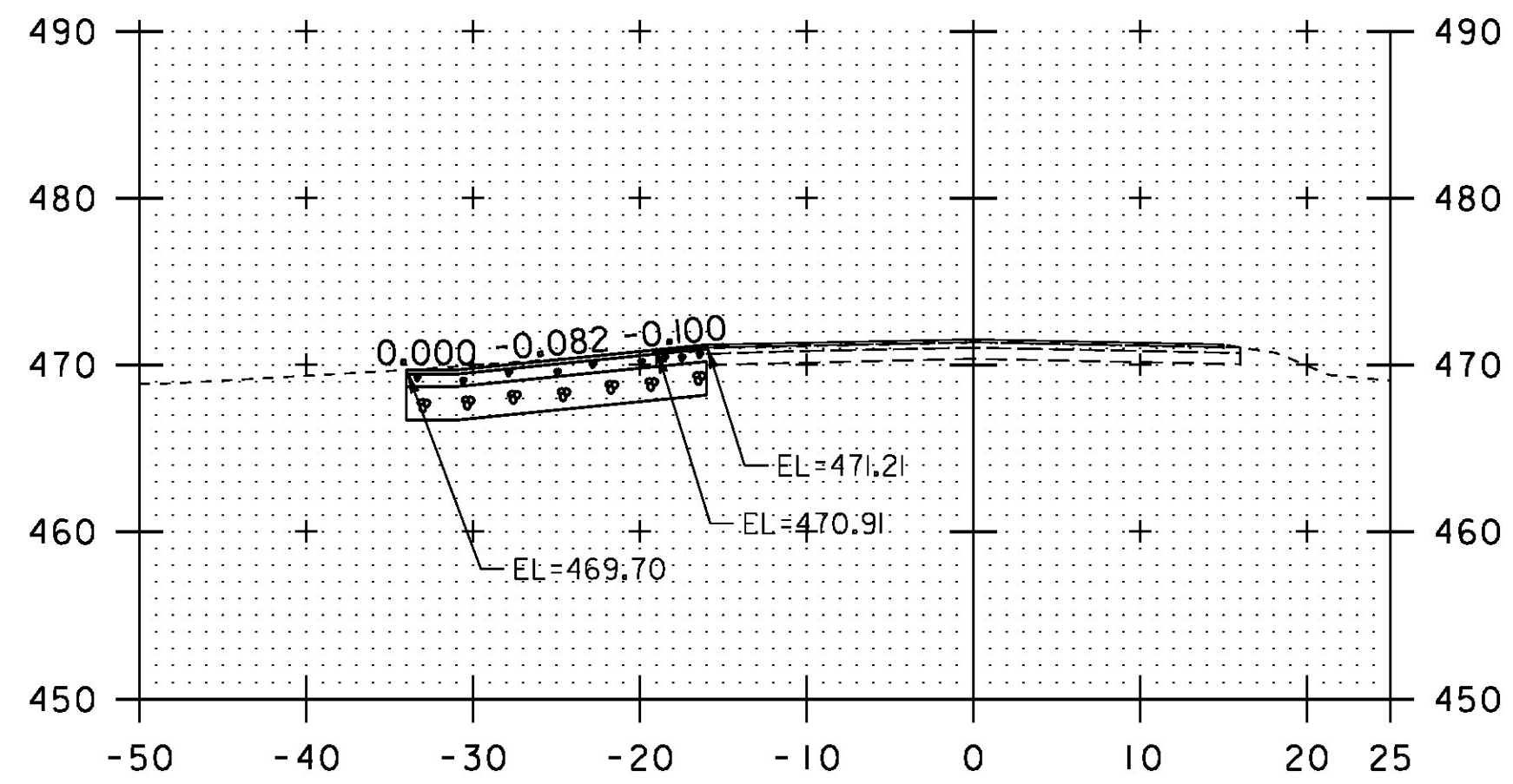
45+00



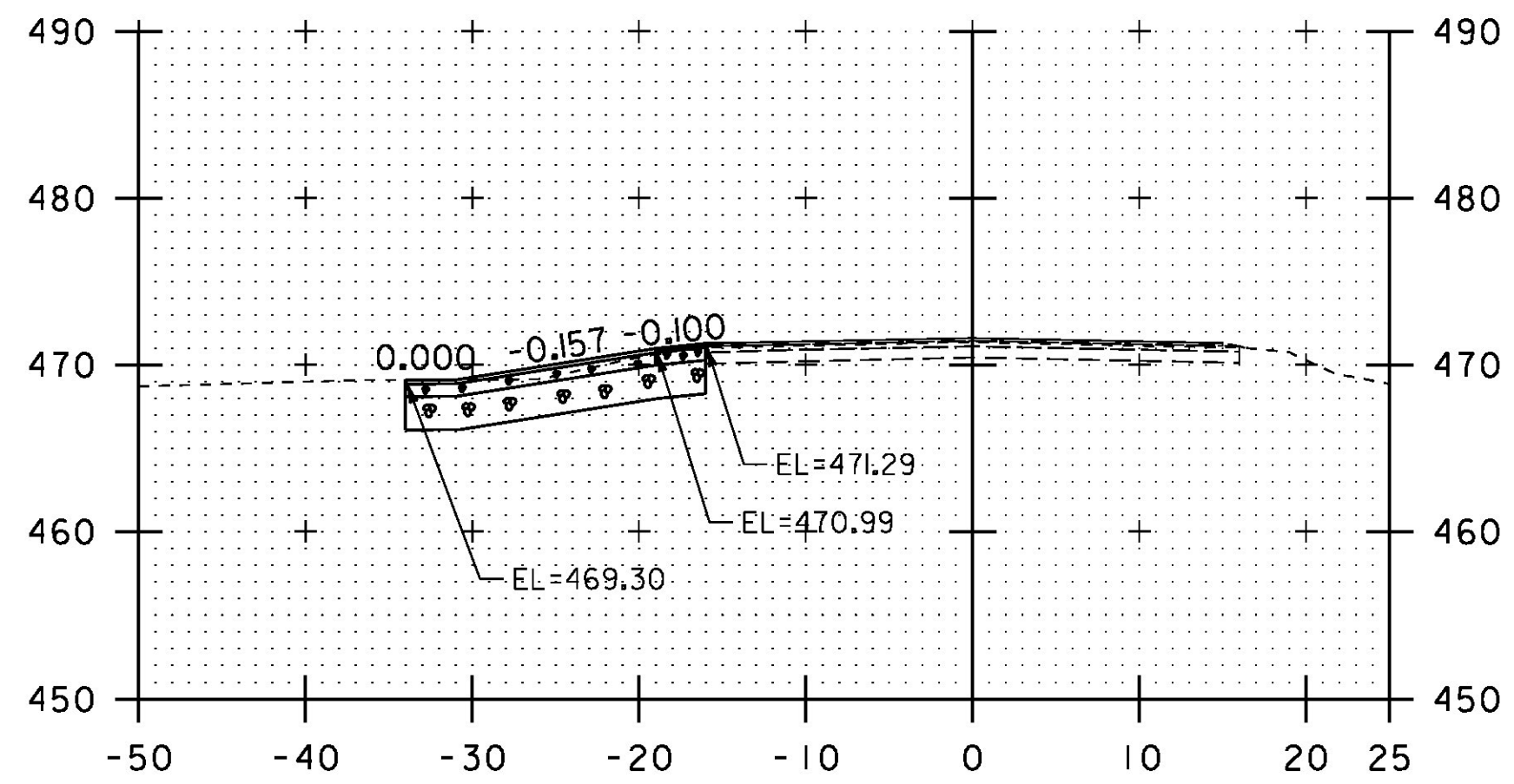
45+75



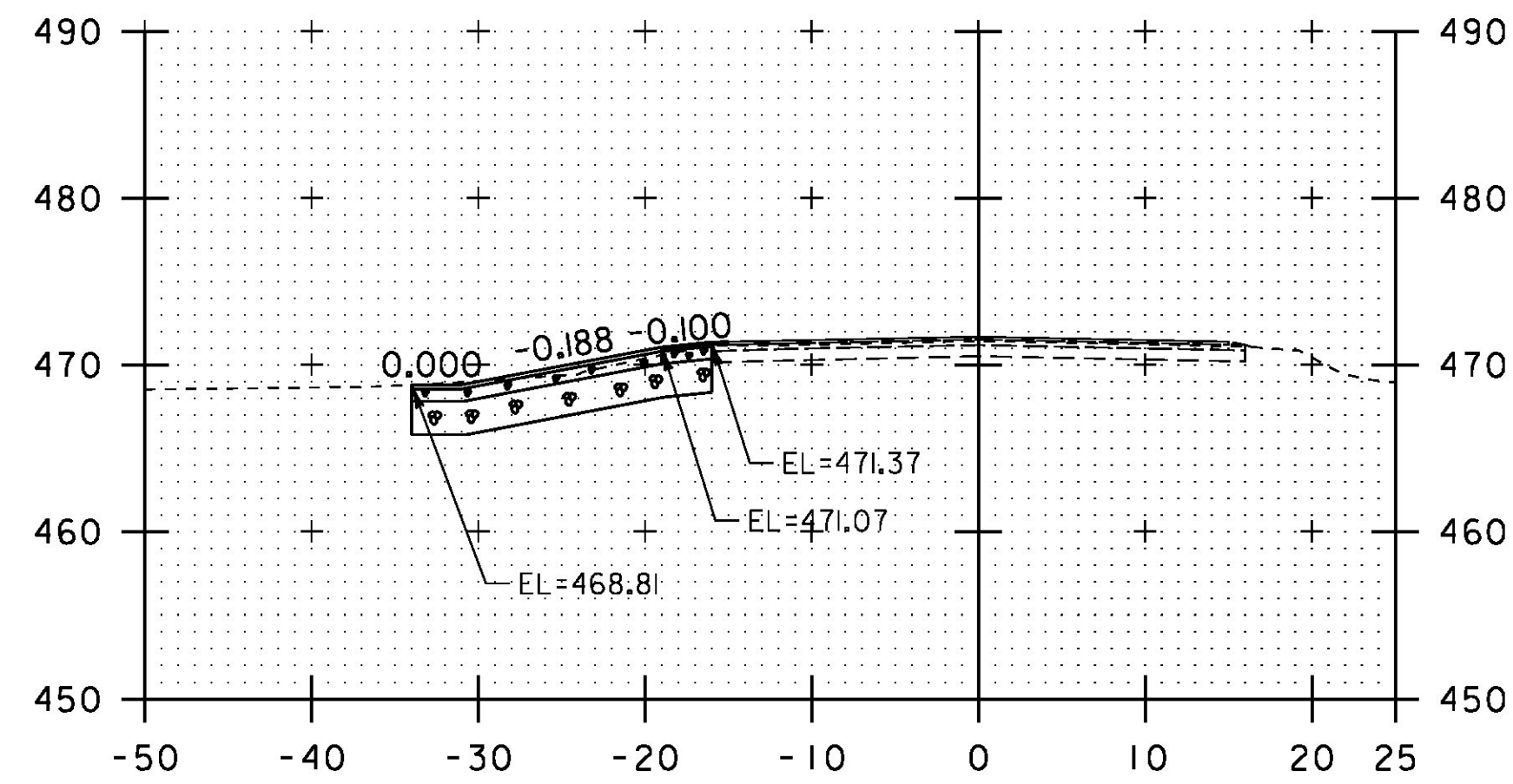
46+50



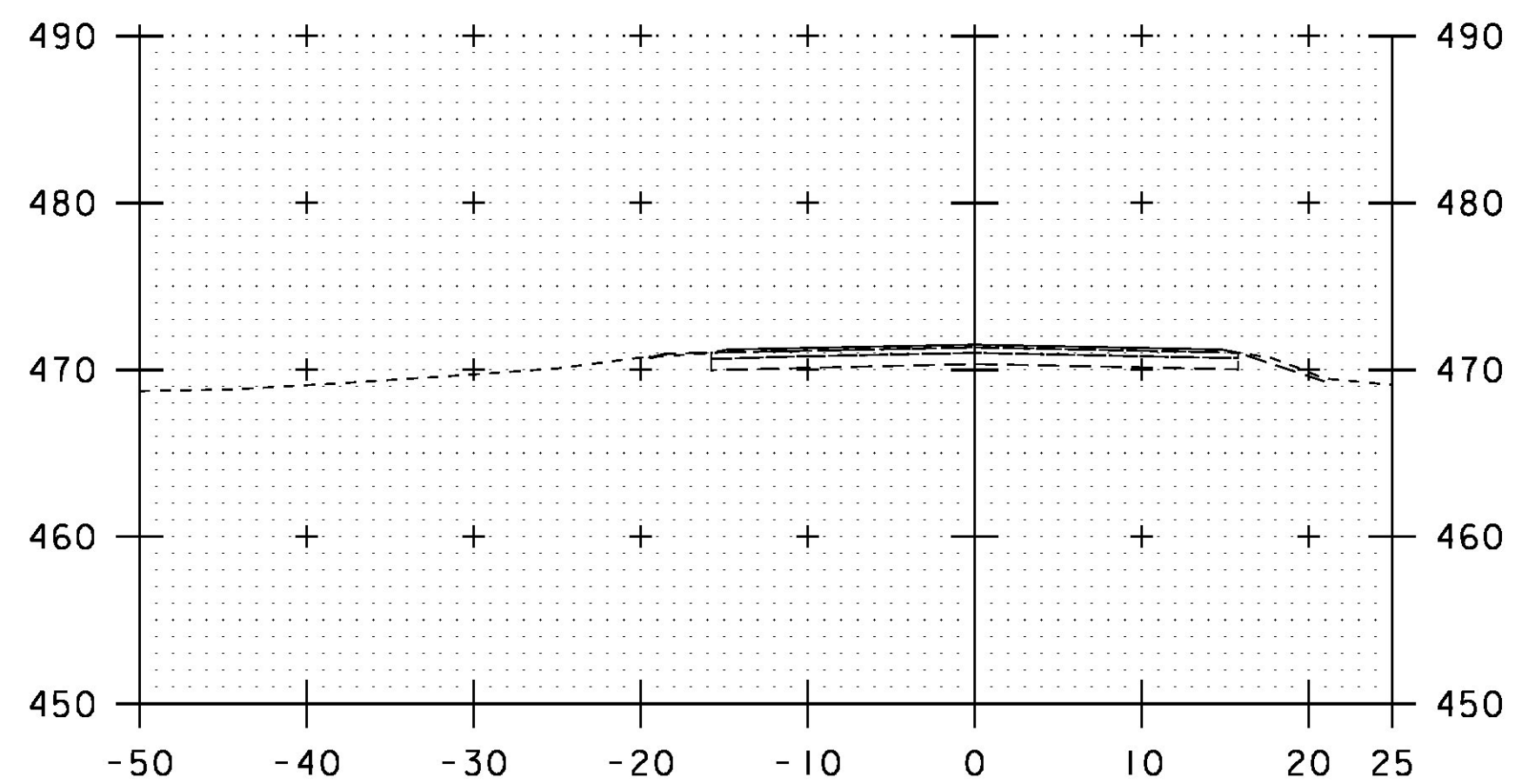
44+75 BEGIN PROJECT  
SPECIAL PROVISION (GABION MATTRESS)



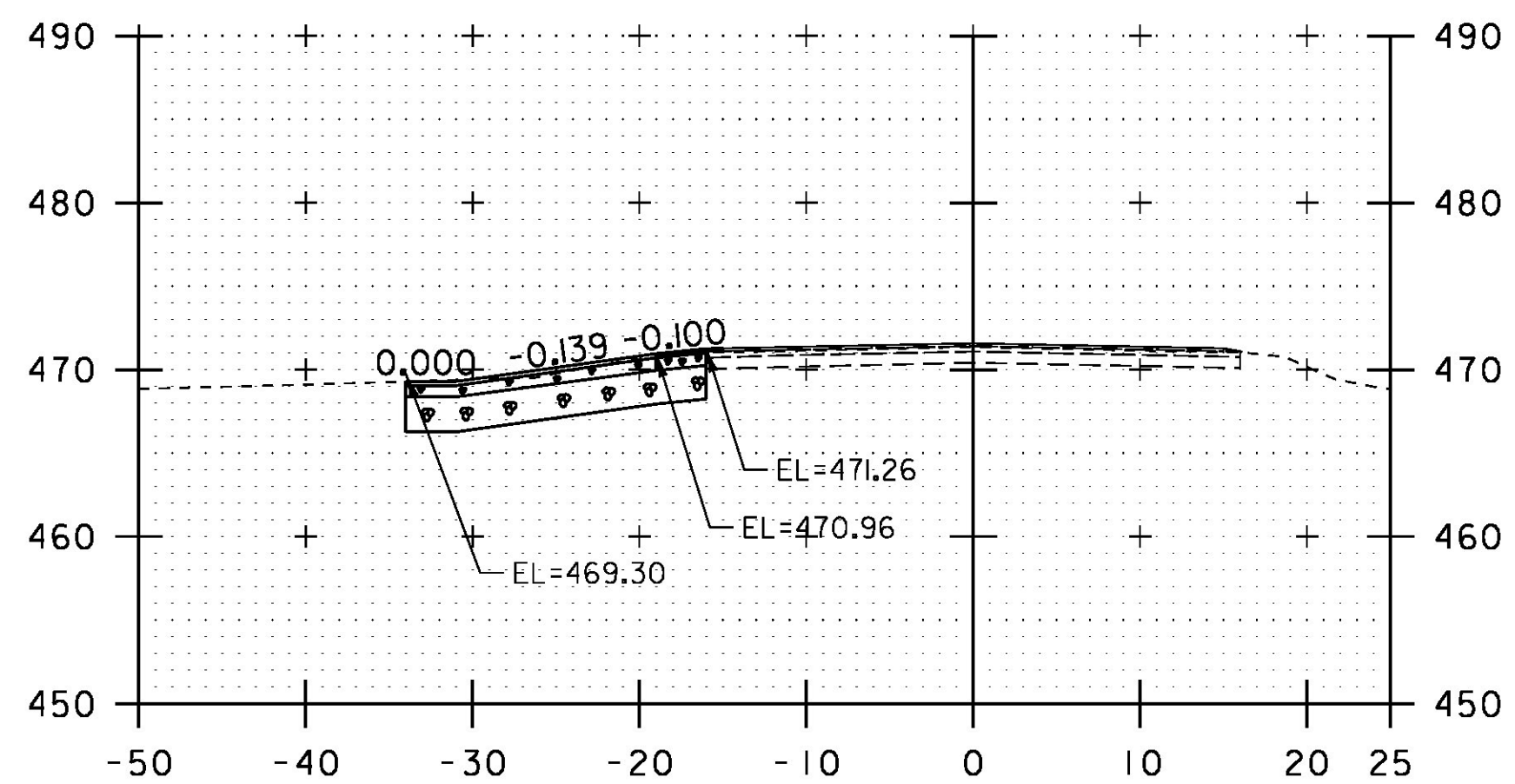
45+50



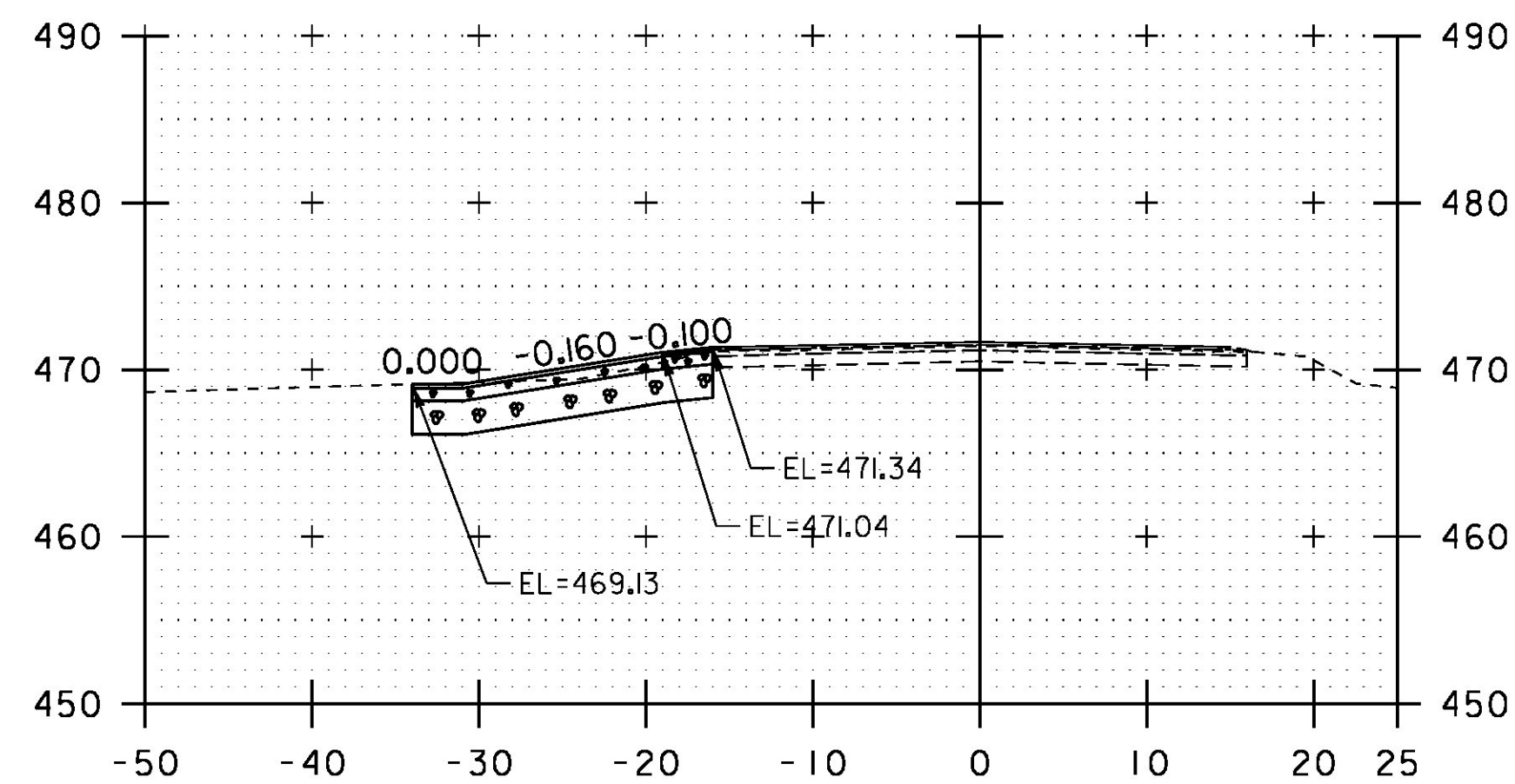
46+25



44+50



45+25



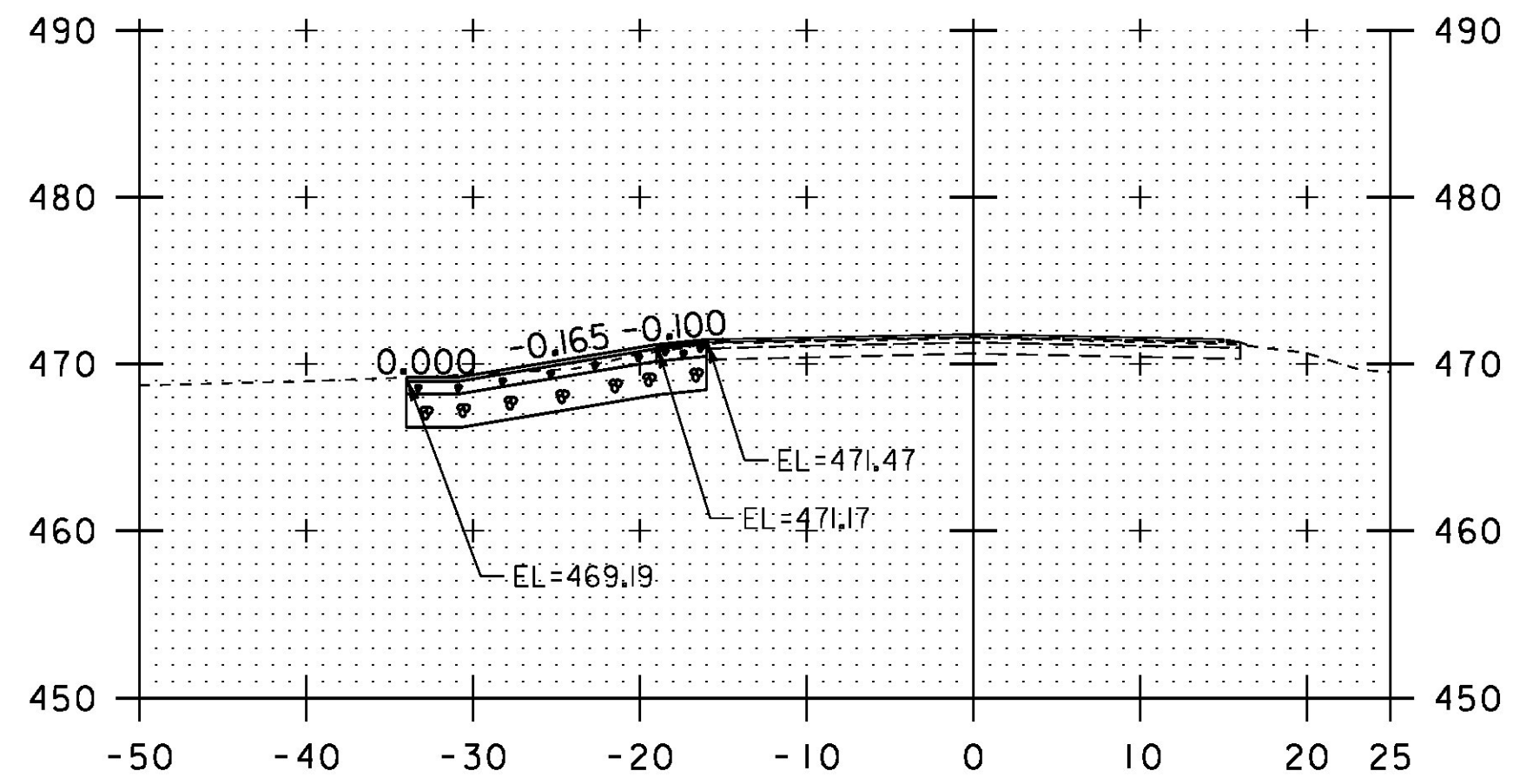
46+00

STA. 44+50 TO STA. 46+50

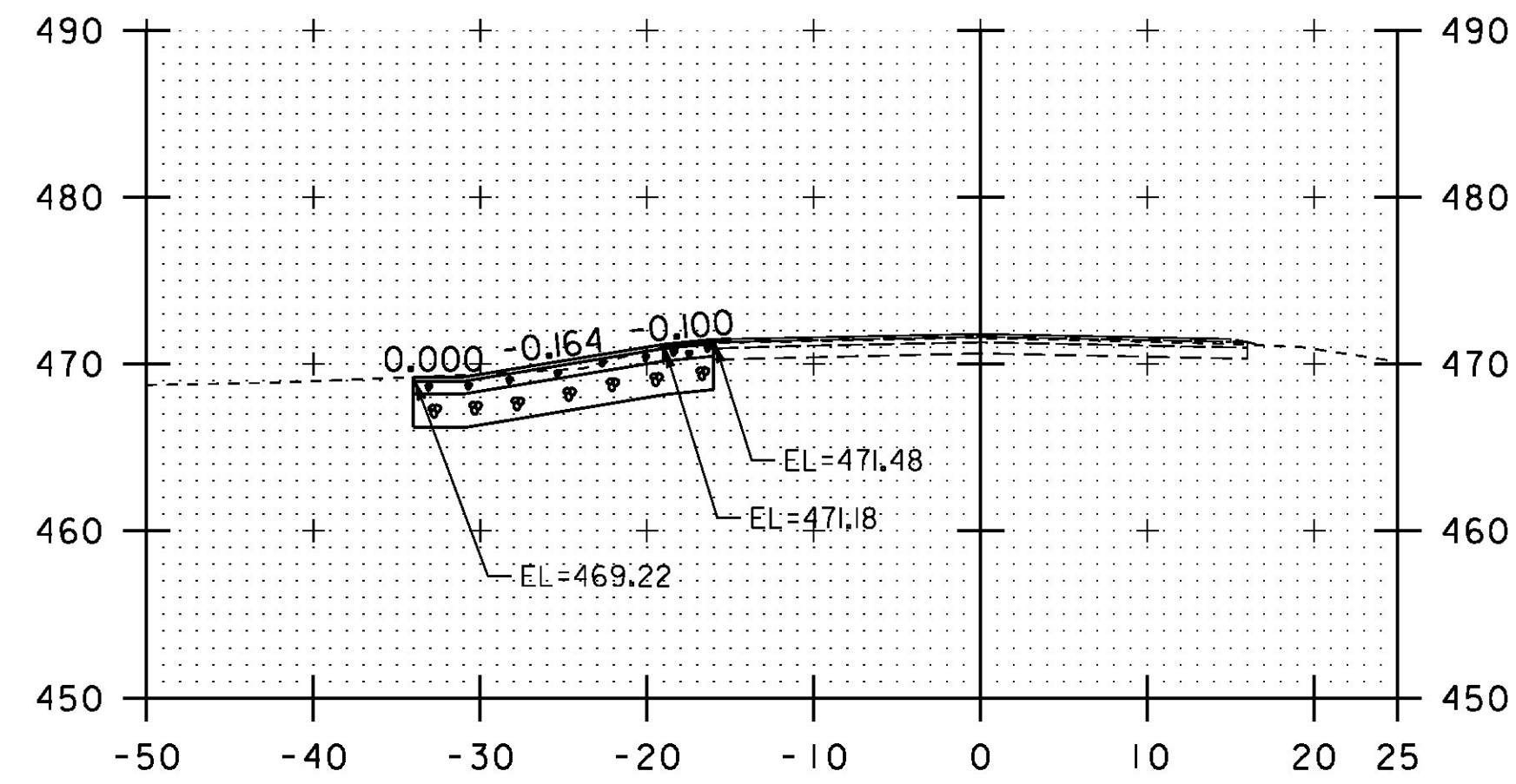
PROJECT NAME: ESSEX  
PROJECT NUMBER: STP 2912(2)

FILE NAME: p14v256\_wrk.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: N. PAPPAS  
GABION MATTRESS CROSS SECTION 1

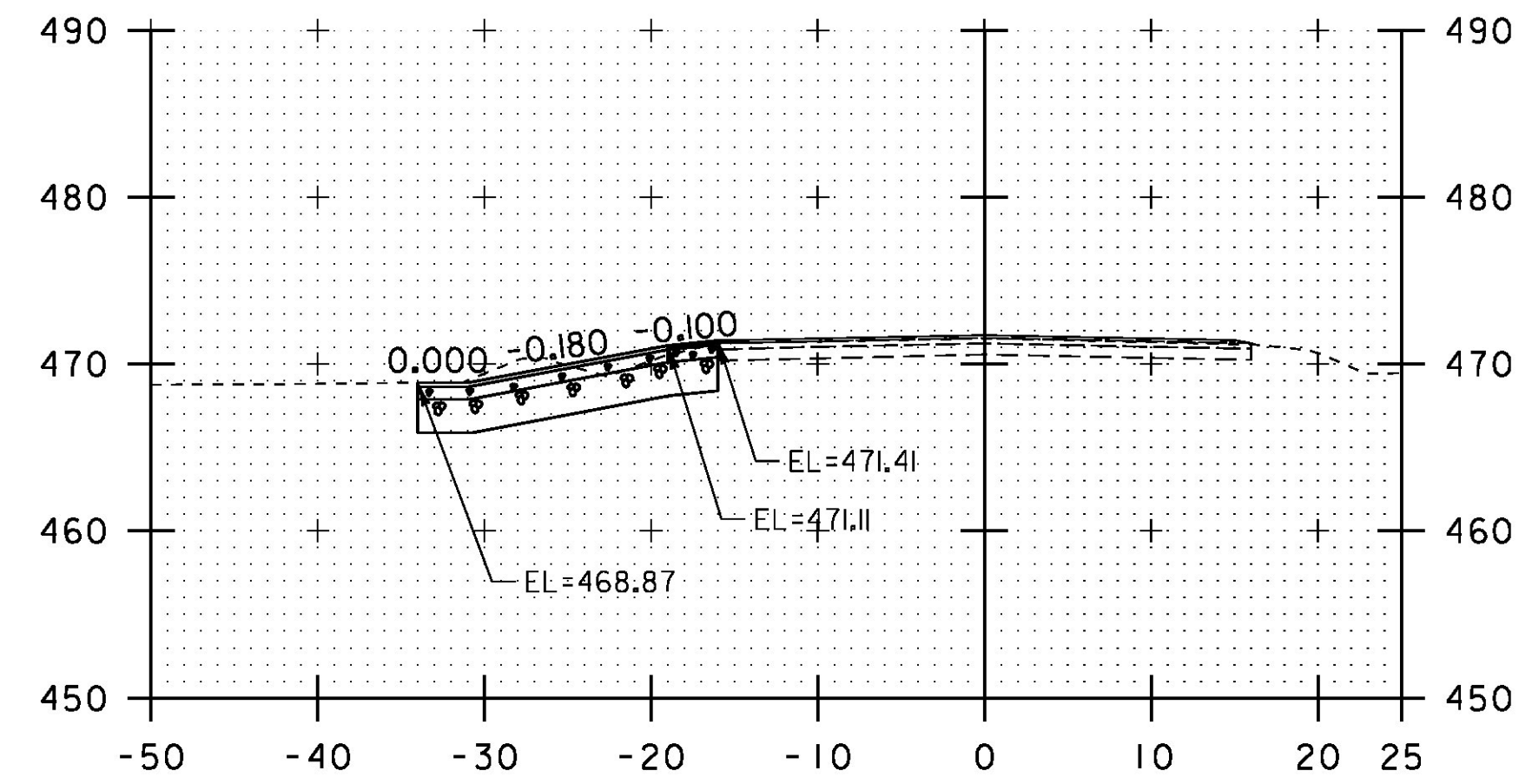
PLOT DATE: 08-JUN-2015  
DRAWN BY: N. PAPPAS  
CHECKED BY: M. FOWLER  
SHEET 12 OF 17



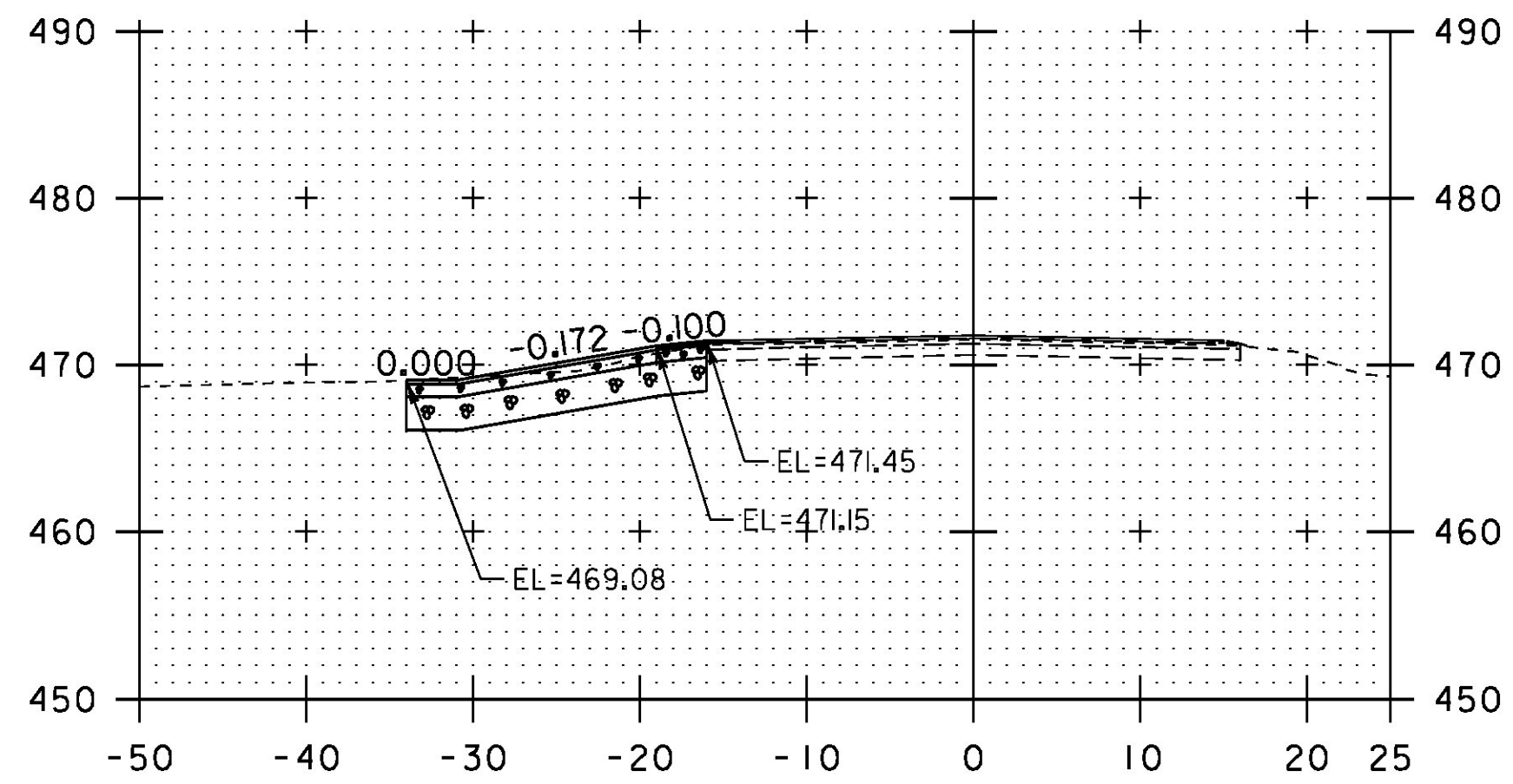
47+25



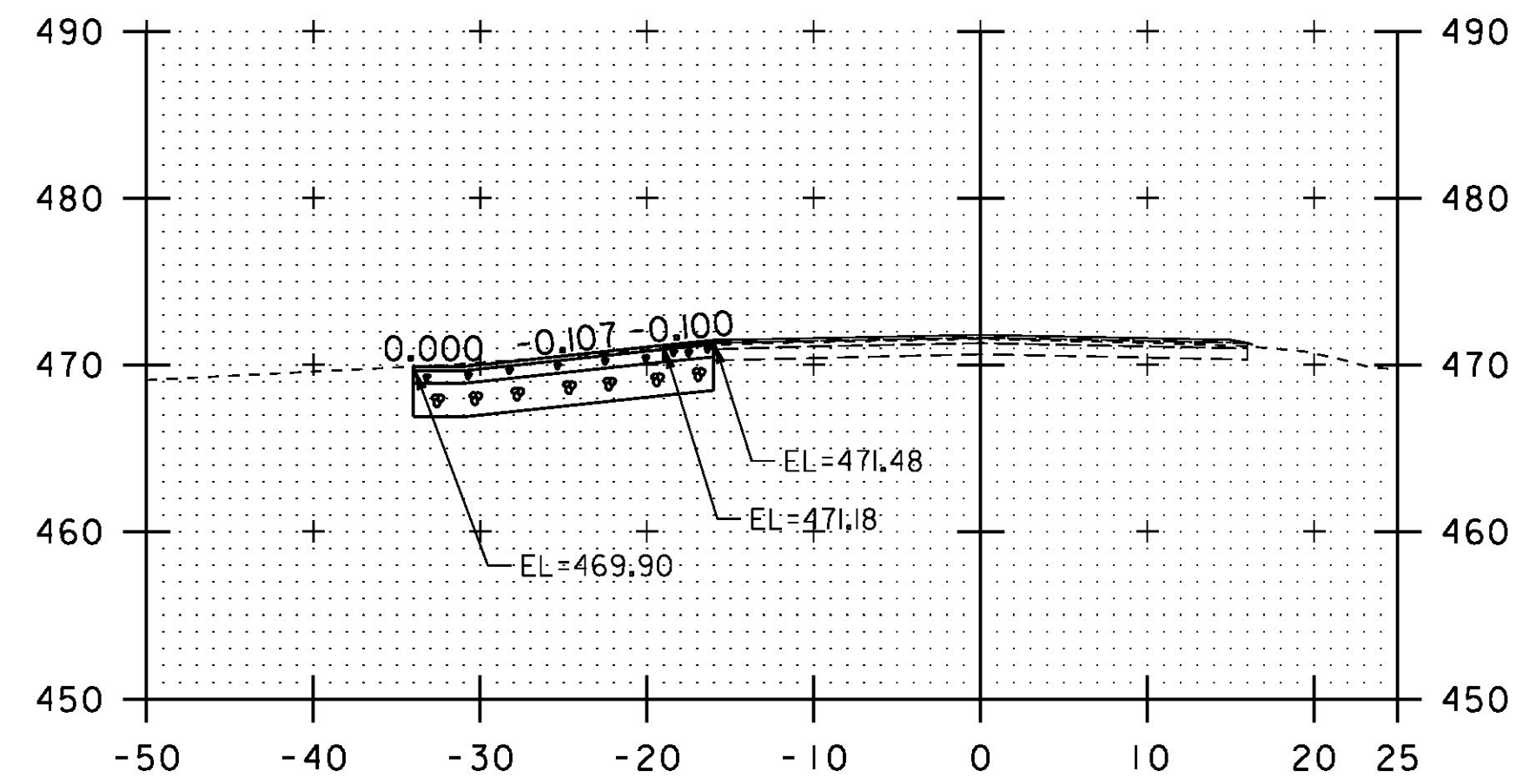
48+00



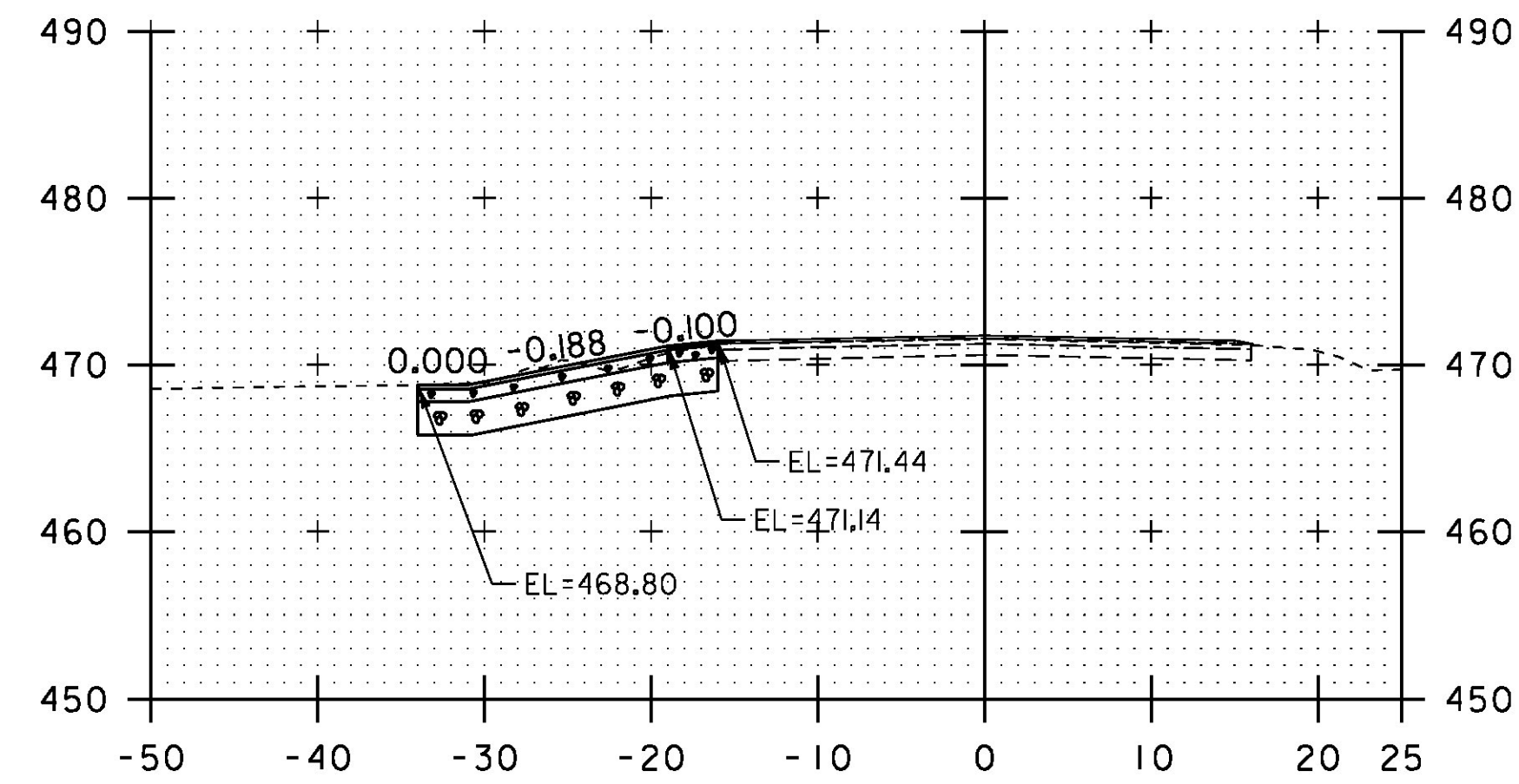
48+75



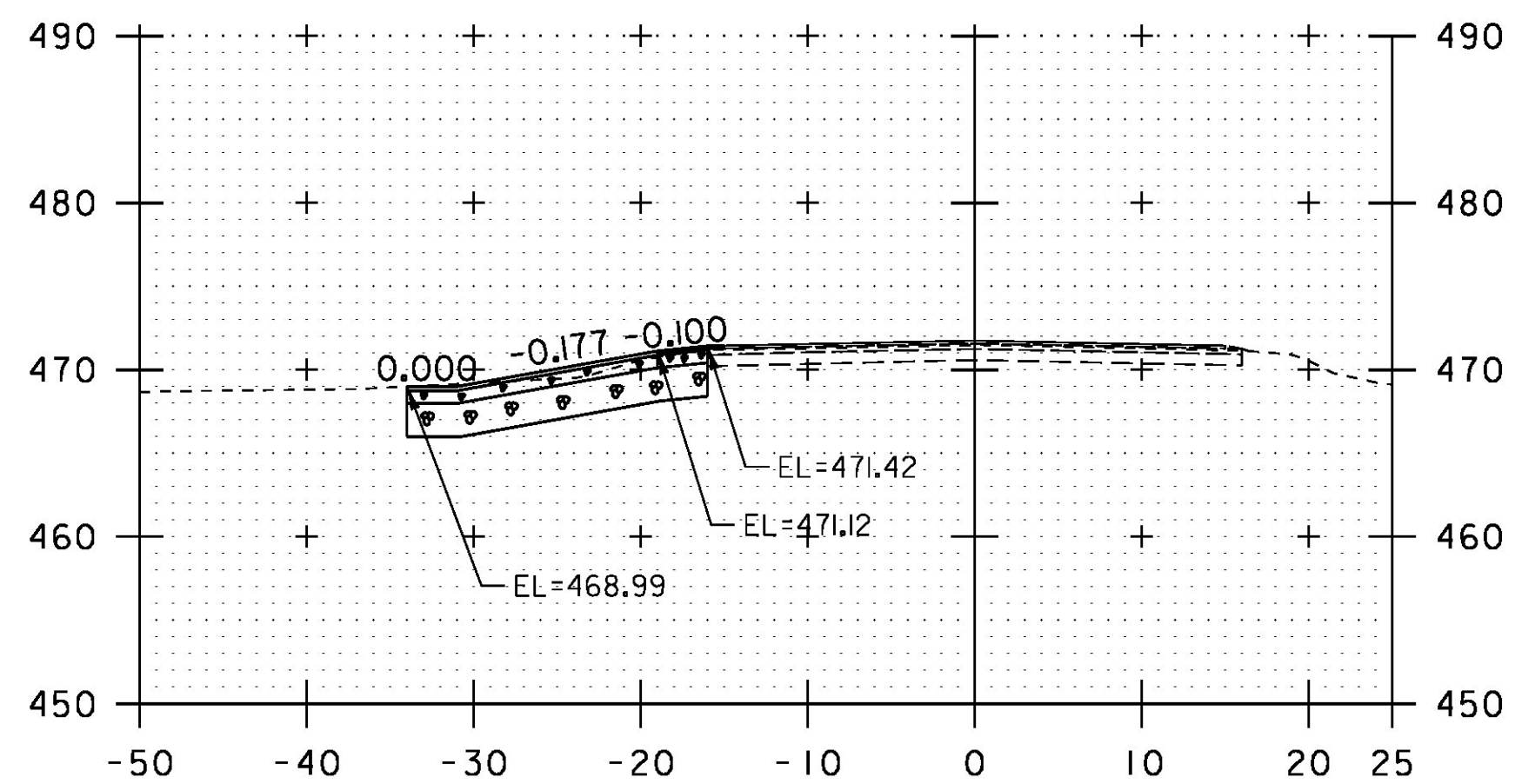
47+00



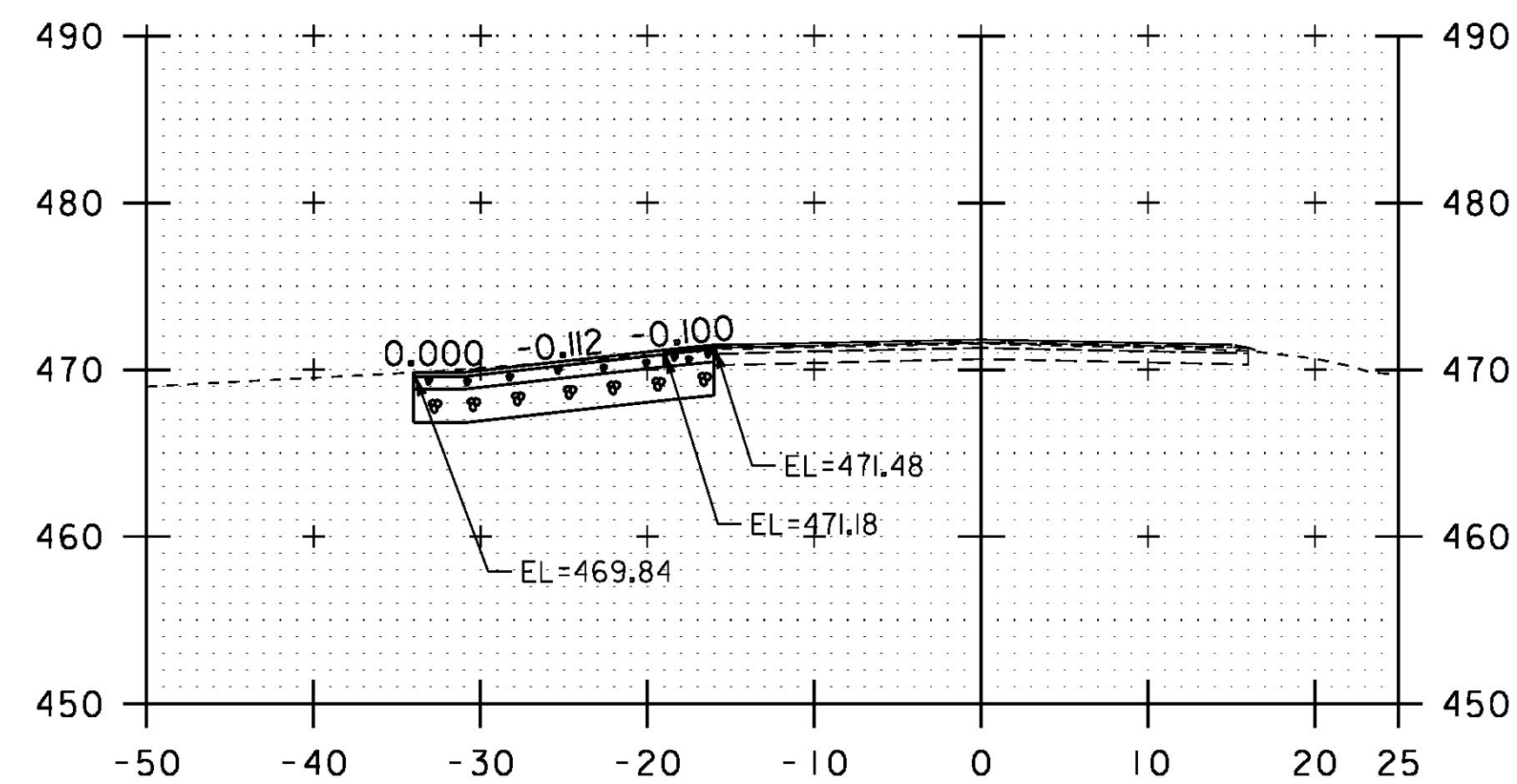
47+75



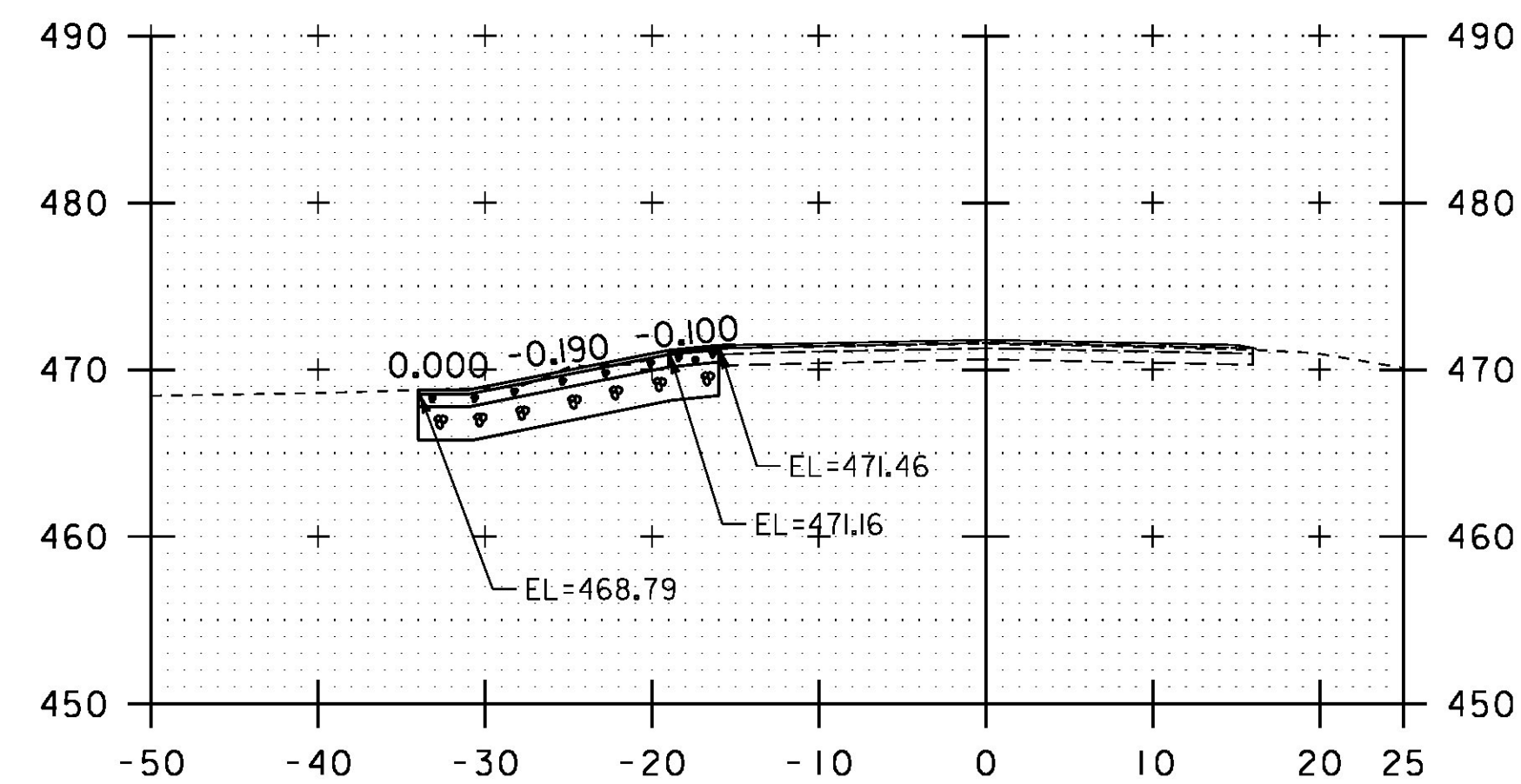
48+50



46+75



47+50



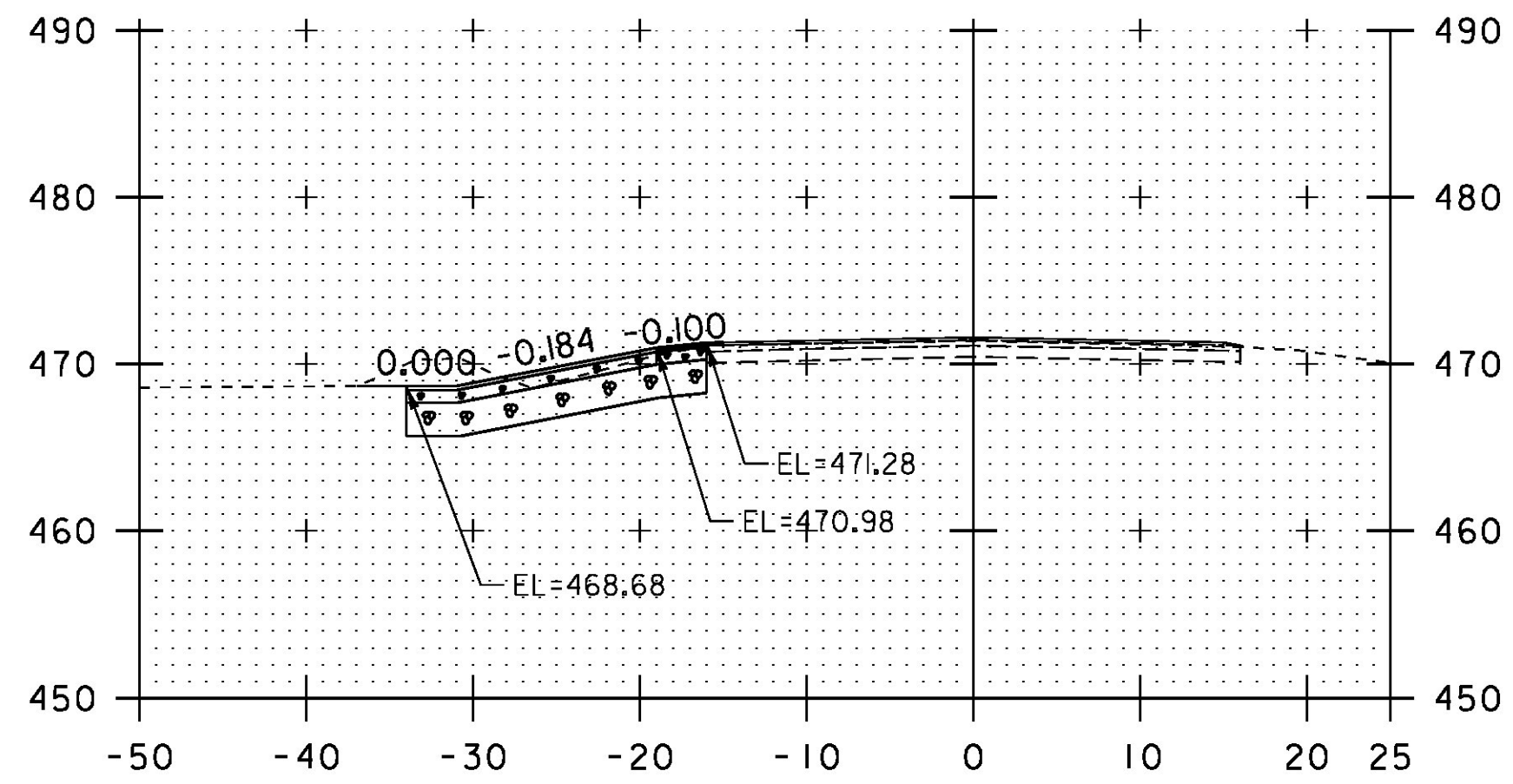
48+25

STA. 46+75 TO STA. 48+75

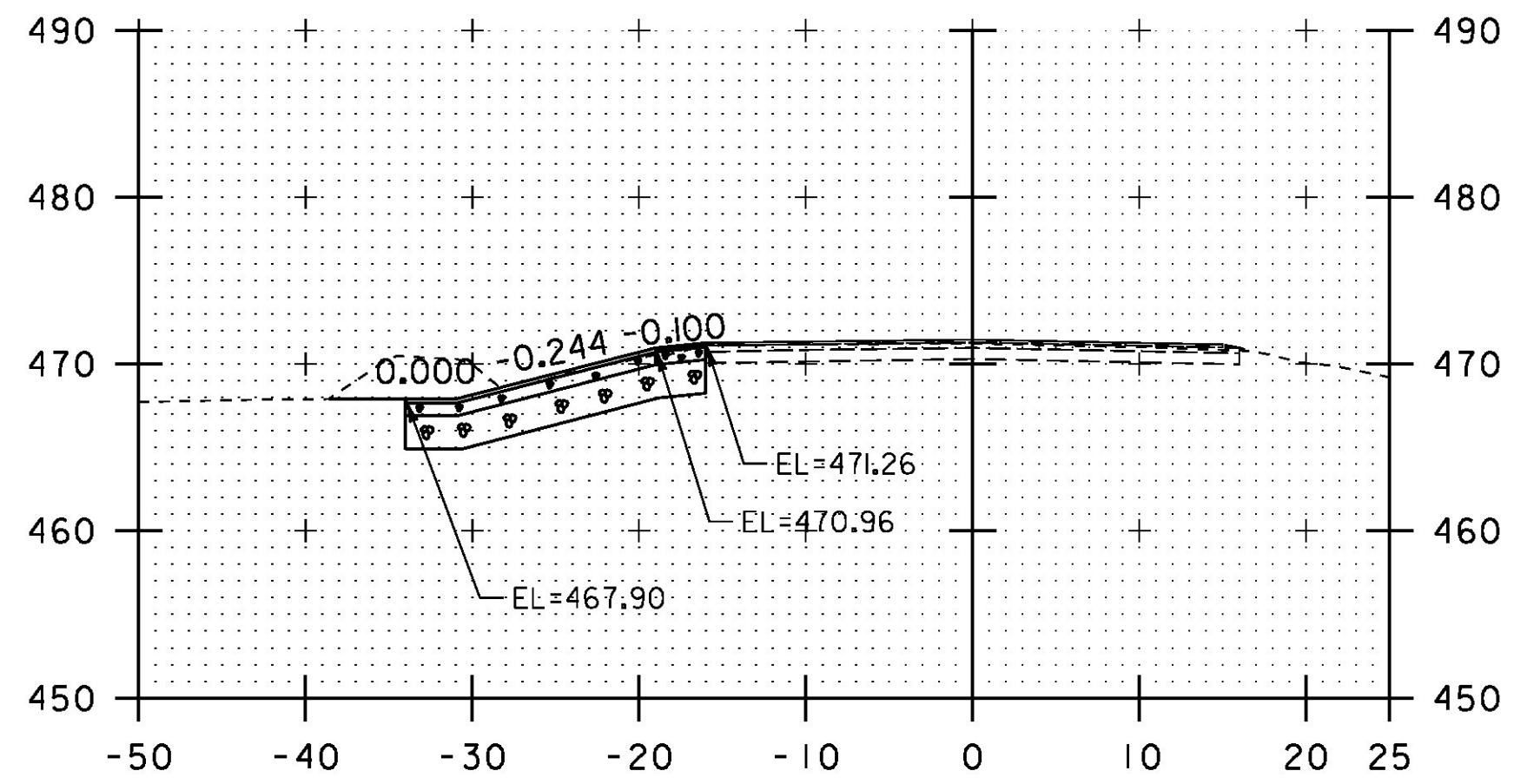
PROJECT NAME: ESSEX  
PROJECT NUMBER: STP 2912(2)

FILE NAME: p14v256\_wrk.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: N. PAPPAS  
GABBION MATTRESS CROSS SECTION 2

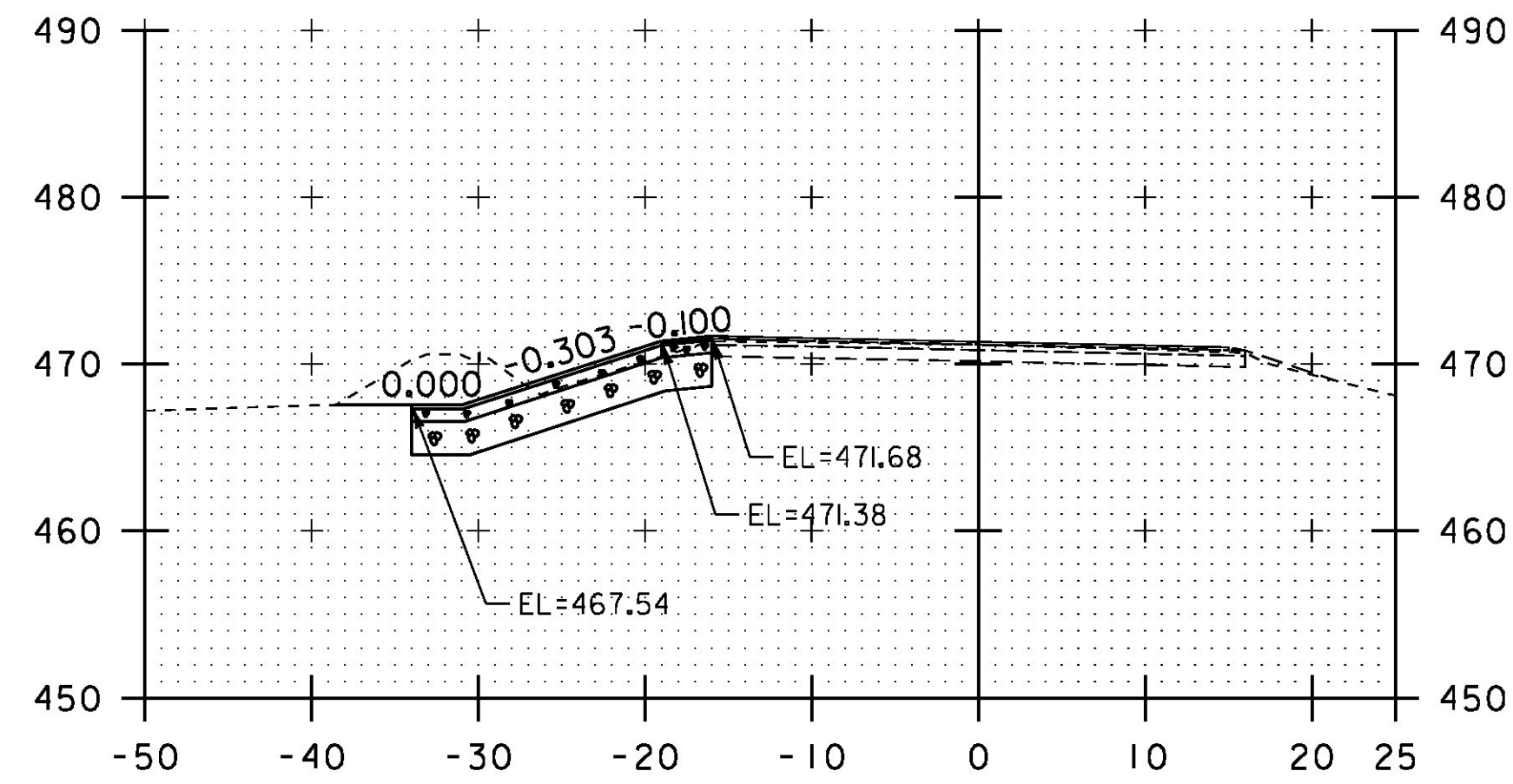
PLOT DATE: 08-JUN-2015  
DRAWN BY: N. PAPPAS  
CHECKED BY: M. FOWLER  
SHEET 13 OF 17



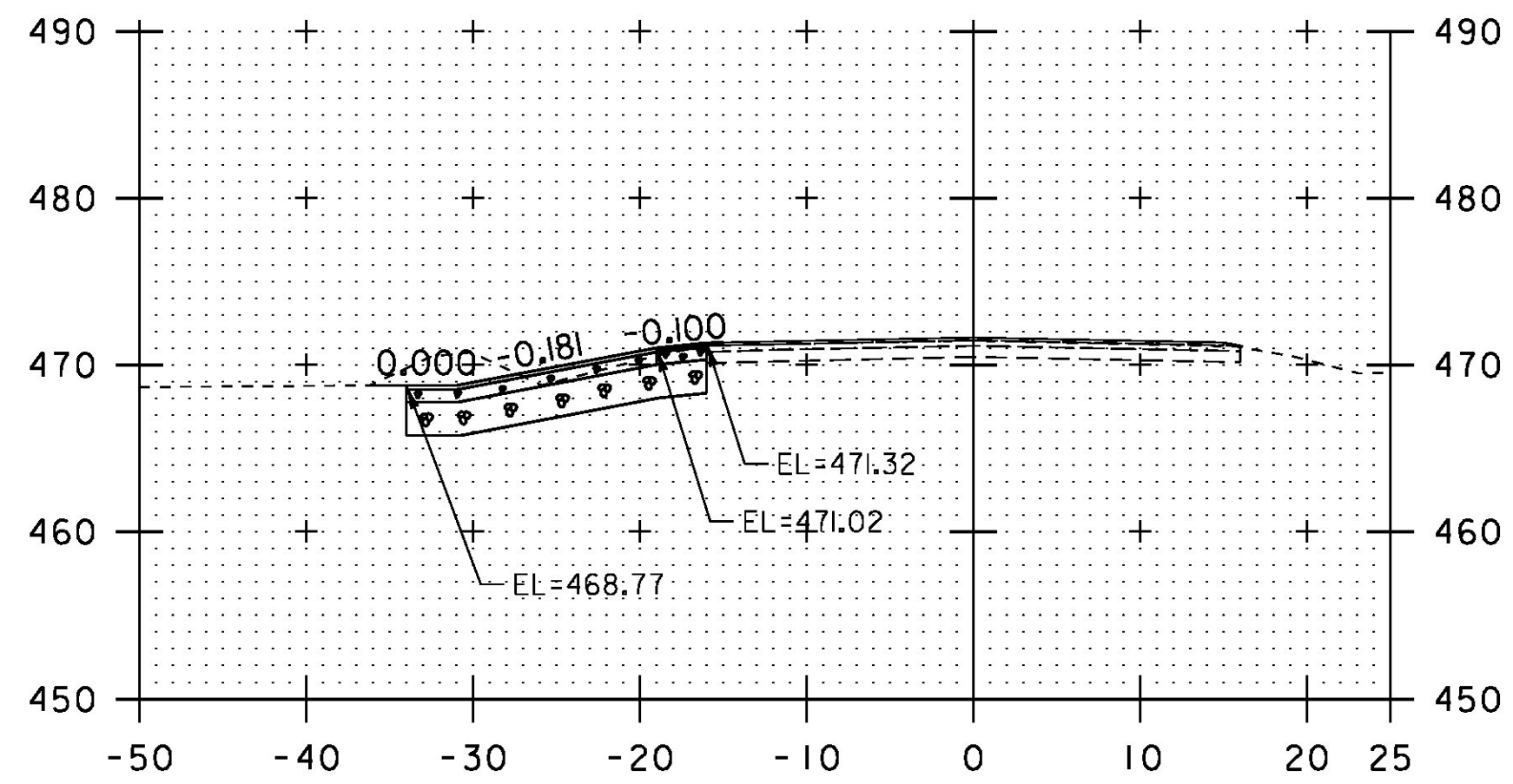
49+50



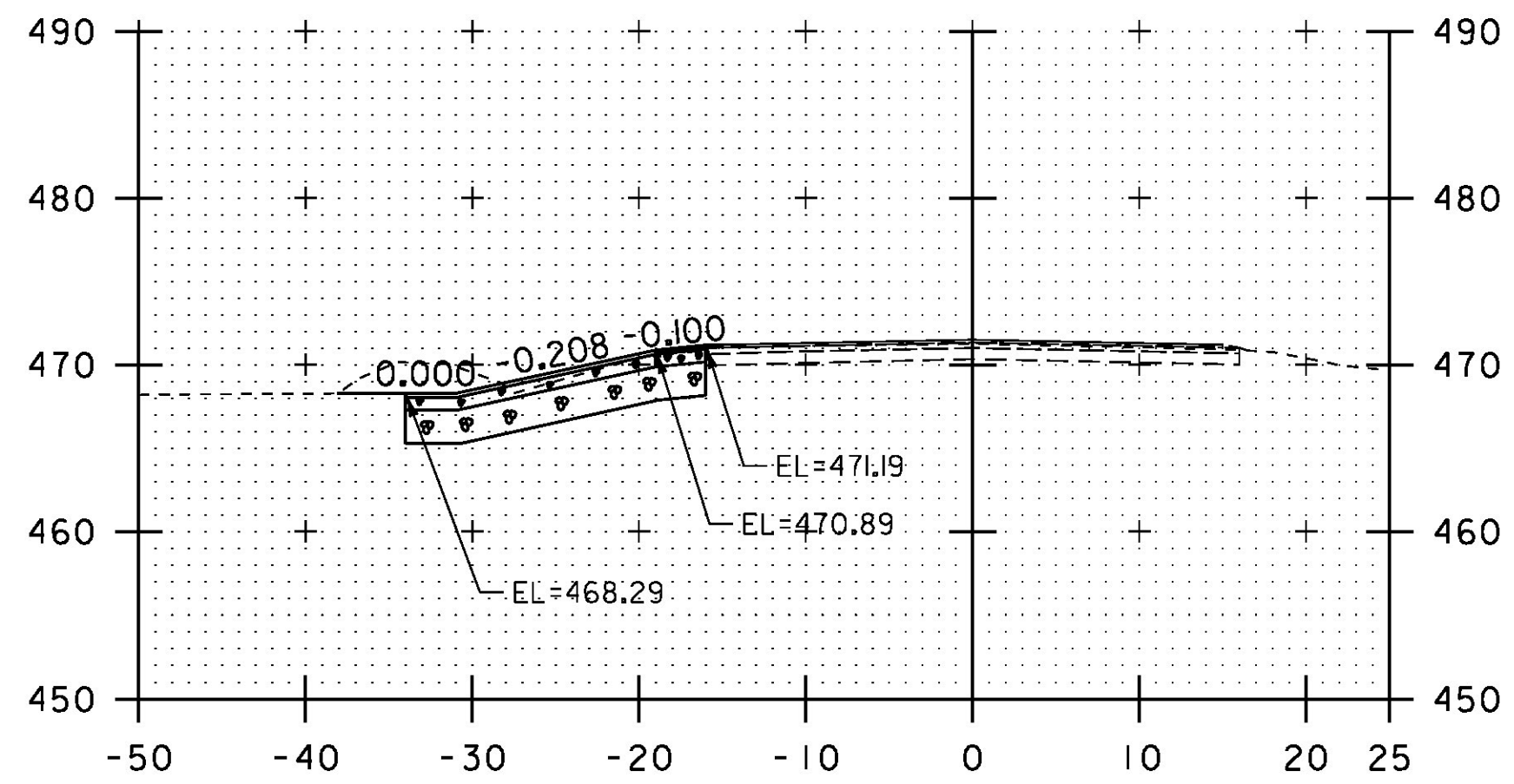
50+25



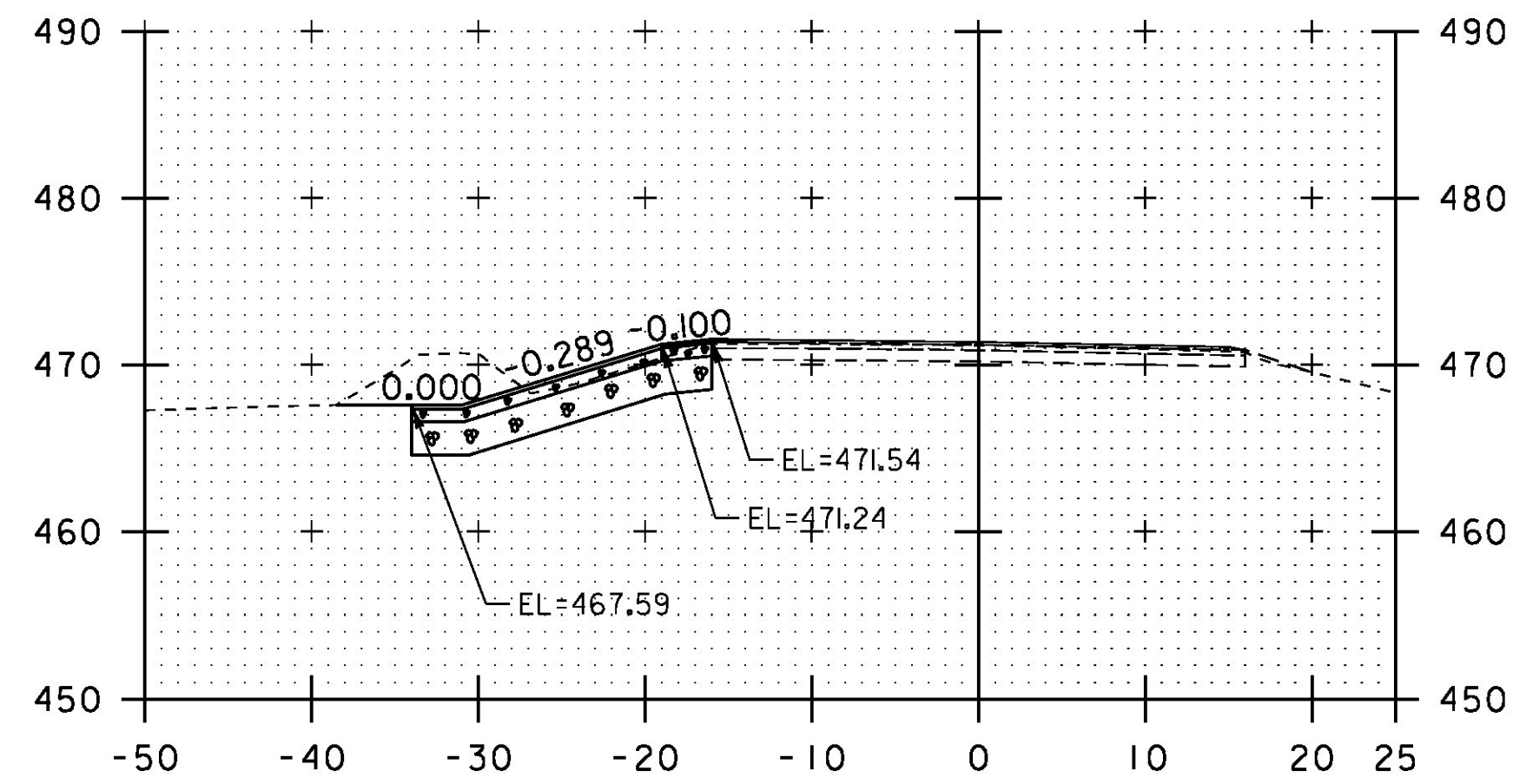
51+00



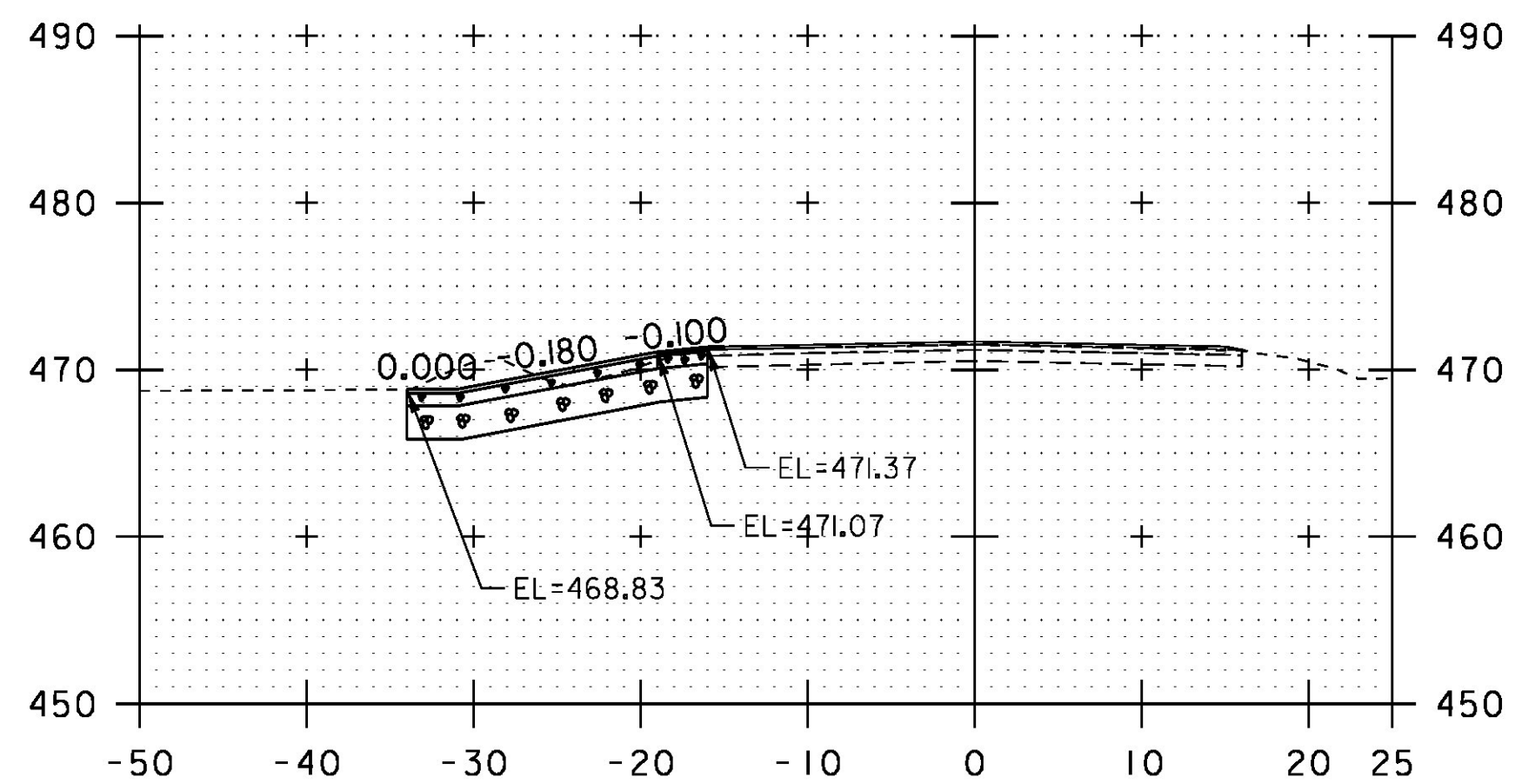
49+25



50+00



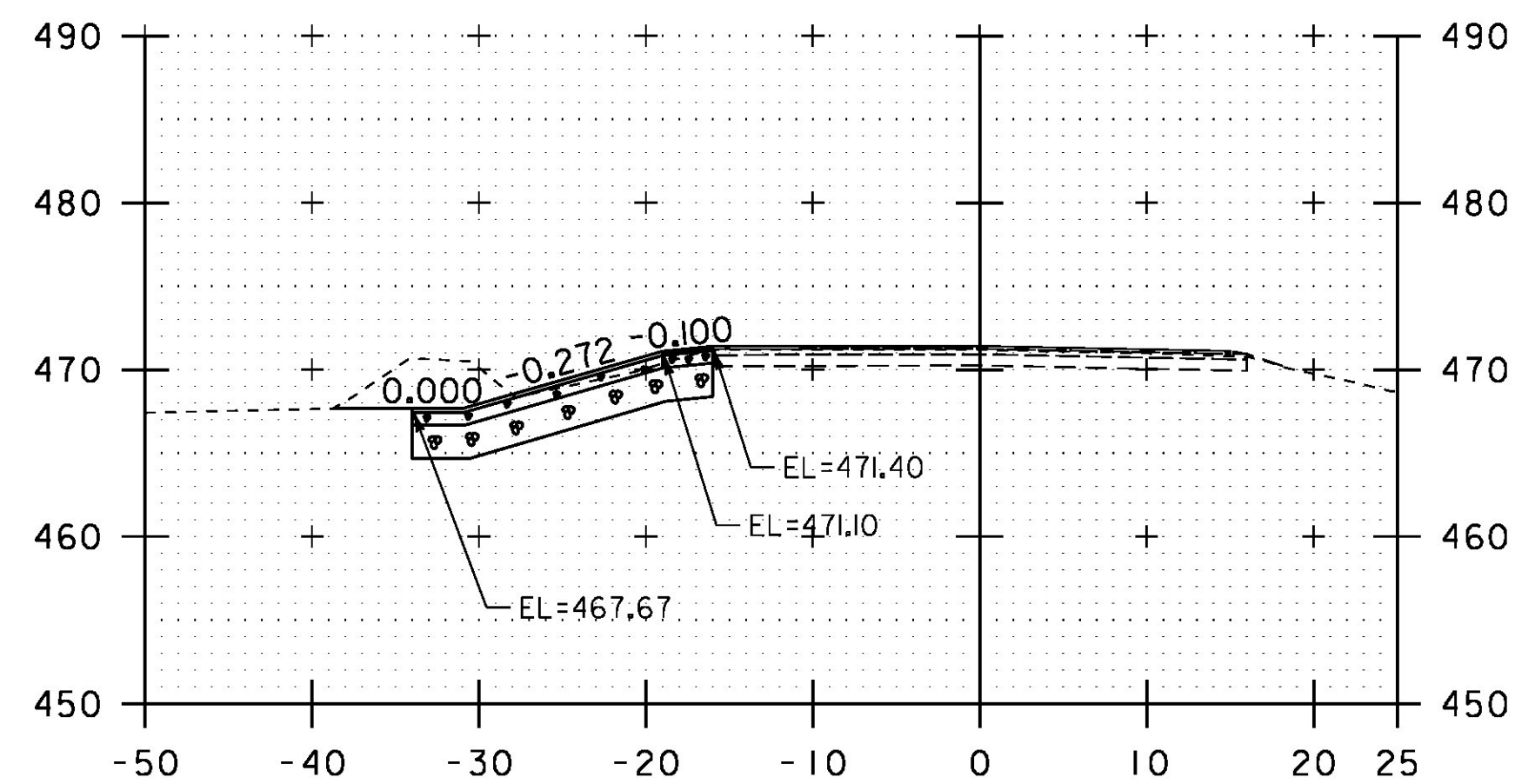
50+75



49+00



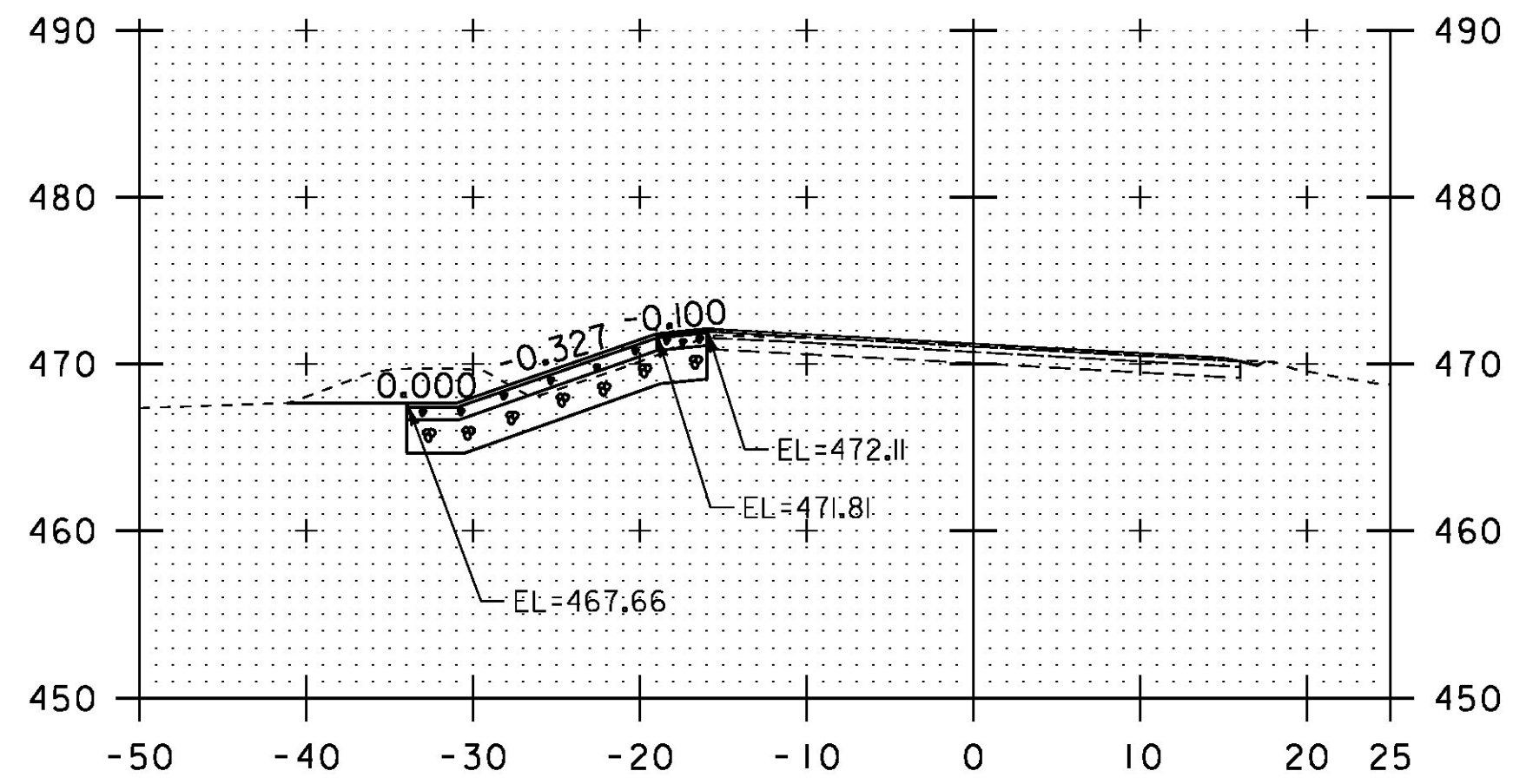
49+75



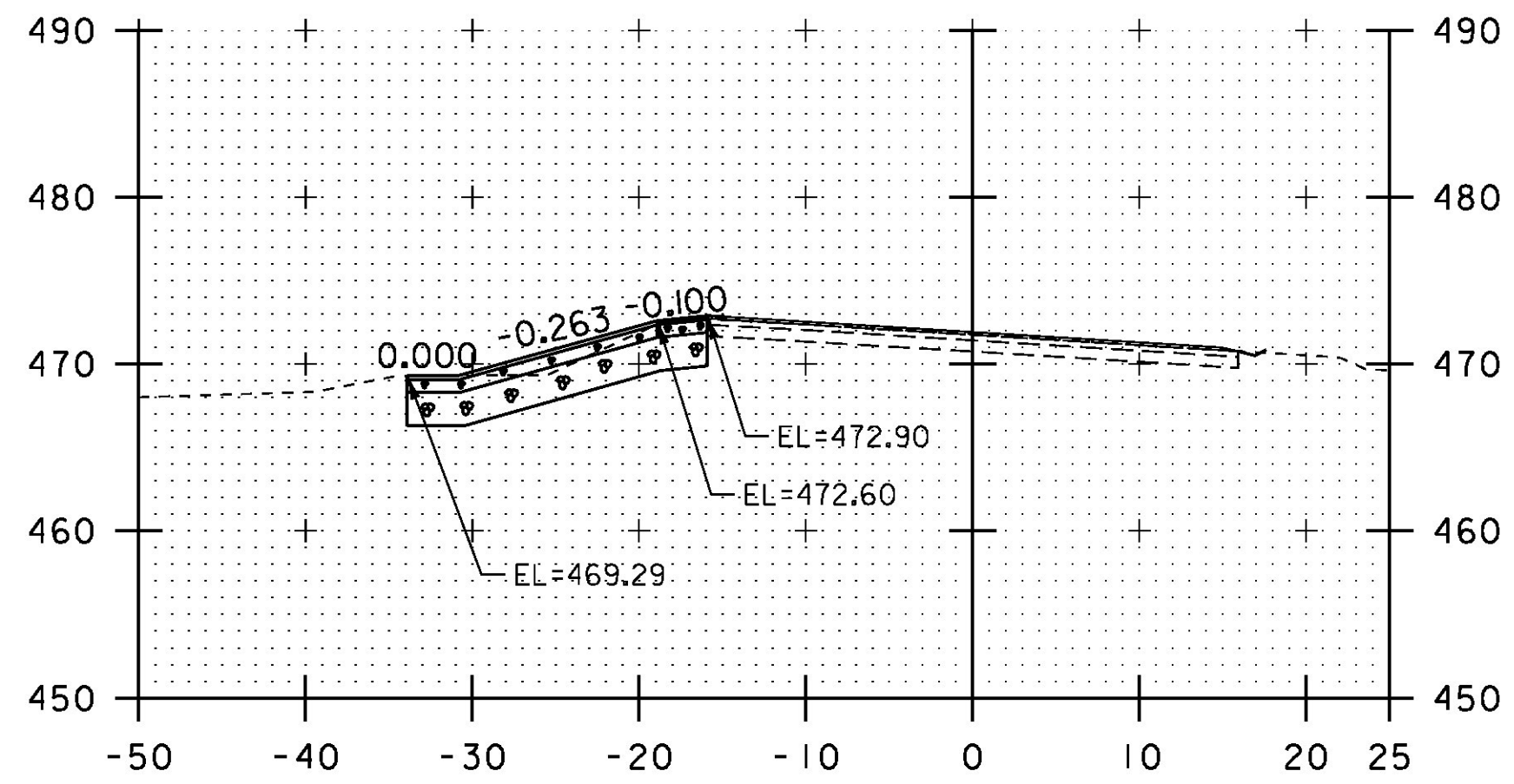
50+50

STA. 49+00 TO STA. 51+00

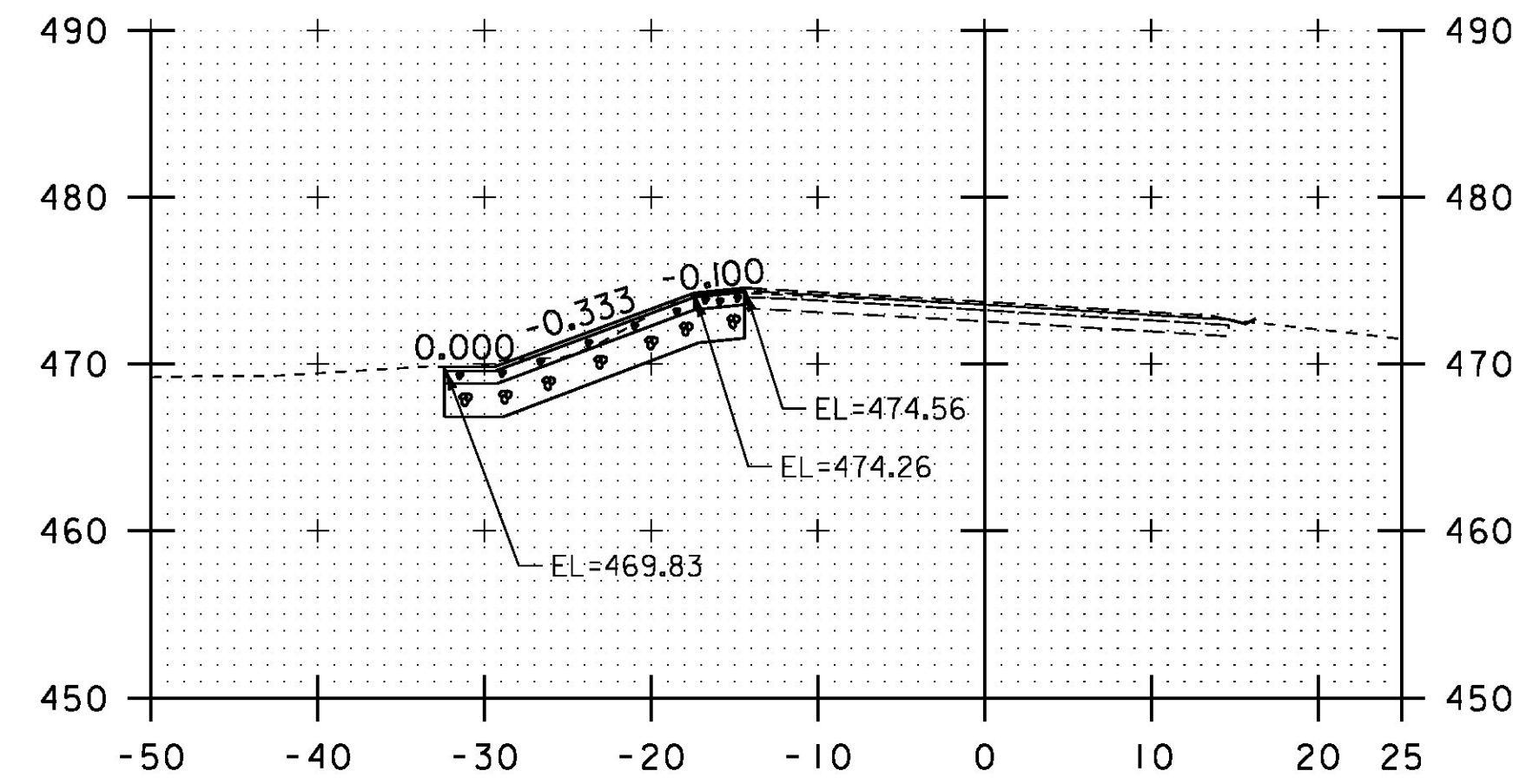
PROJECT NAME:	ESSEX	PLOT DATE:	08-JUN-2015
PROJECT NUMBER:	STP 2912(2)	DRAWN BY:	N. PAPPAS
FILE NAME:	p14v256_wrk.dgn	DESIGNED BY:	N. PAPPAS
PROJECT LEADER:	M. FOWLER	CHECKED BY:	M. FOWLER
GABION MATTRESS CROSS SECTION 3		SHEET 14 OF 17	



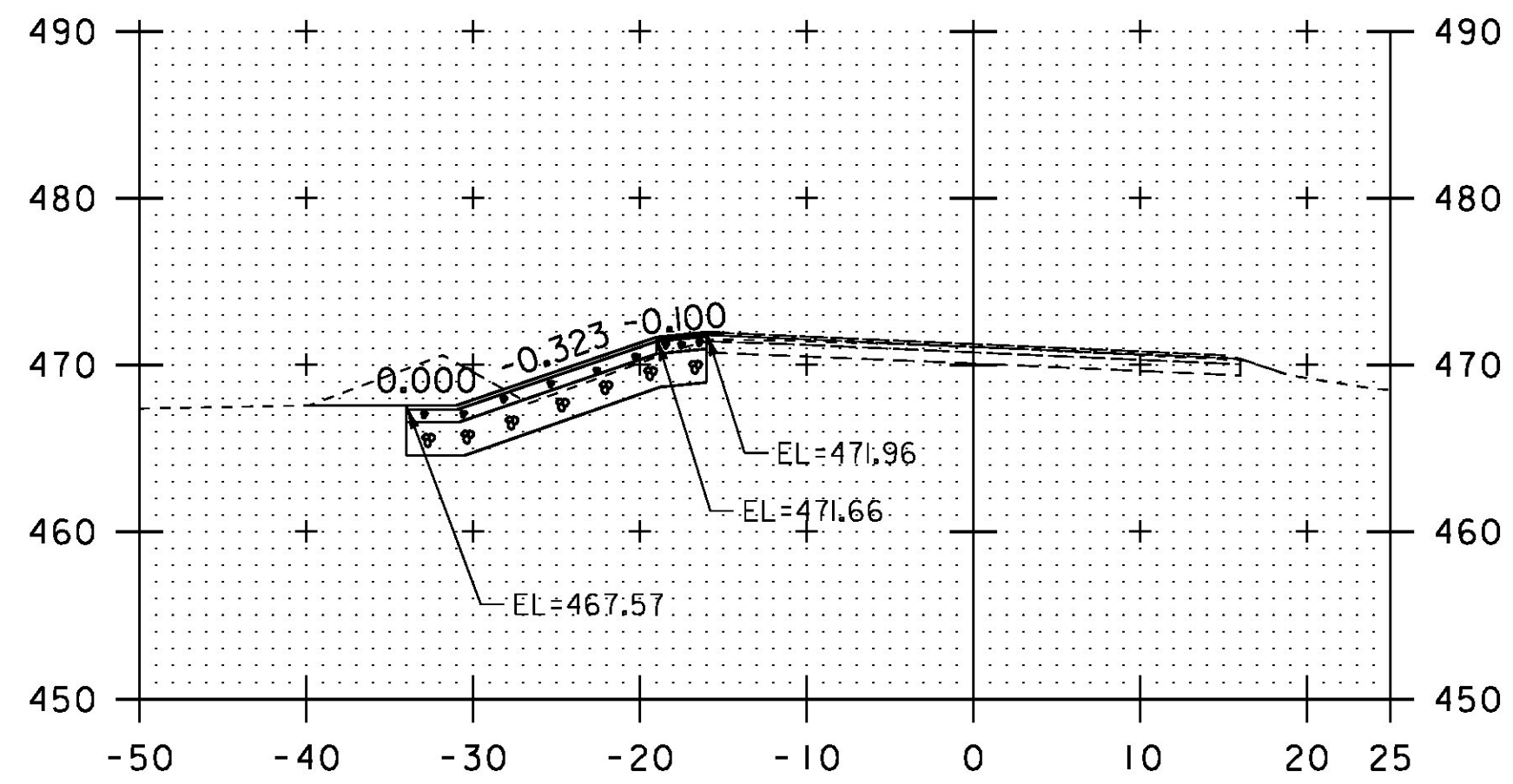
51+75



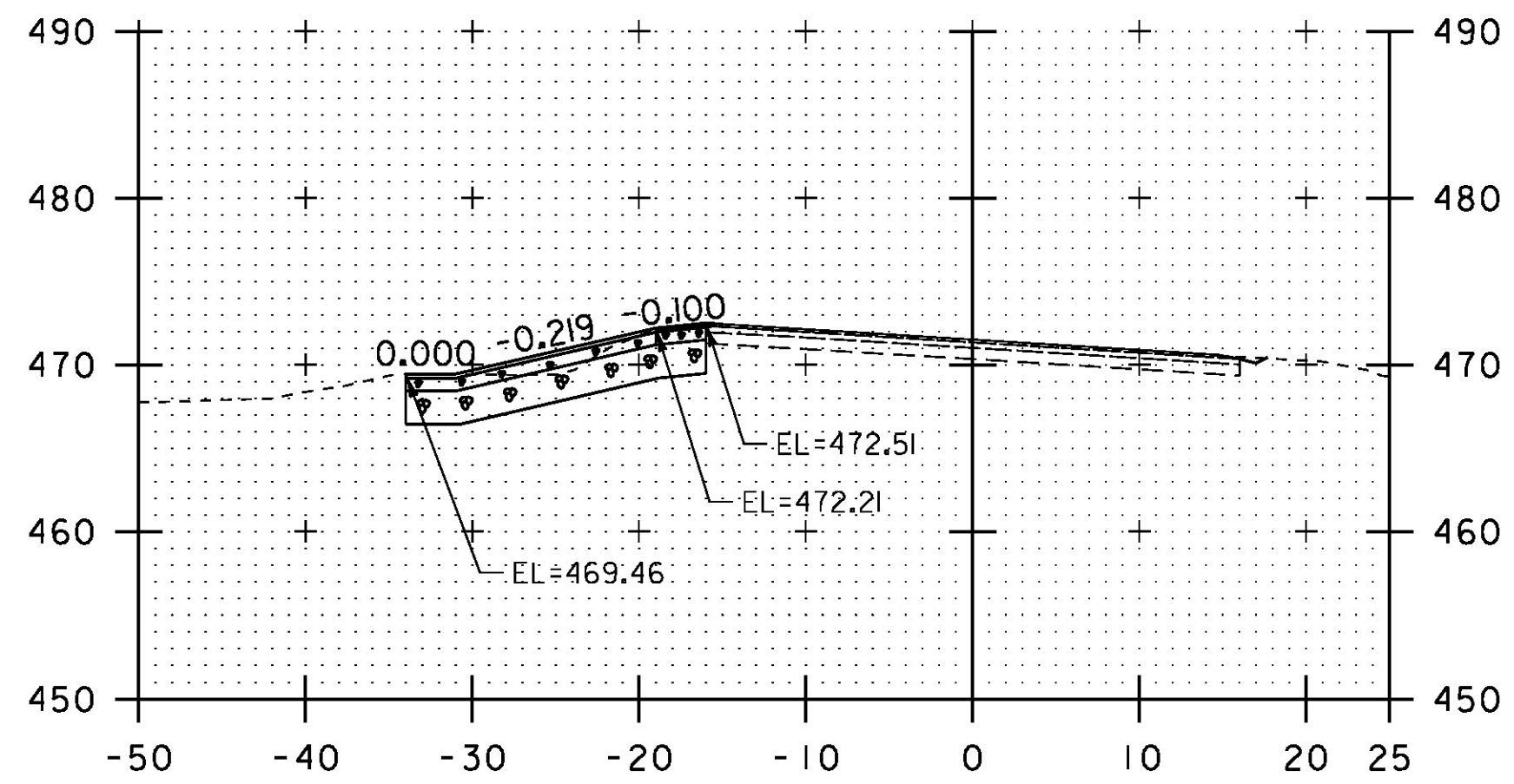
52+50



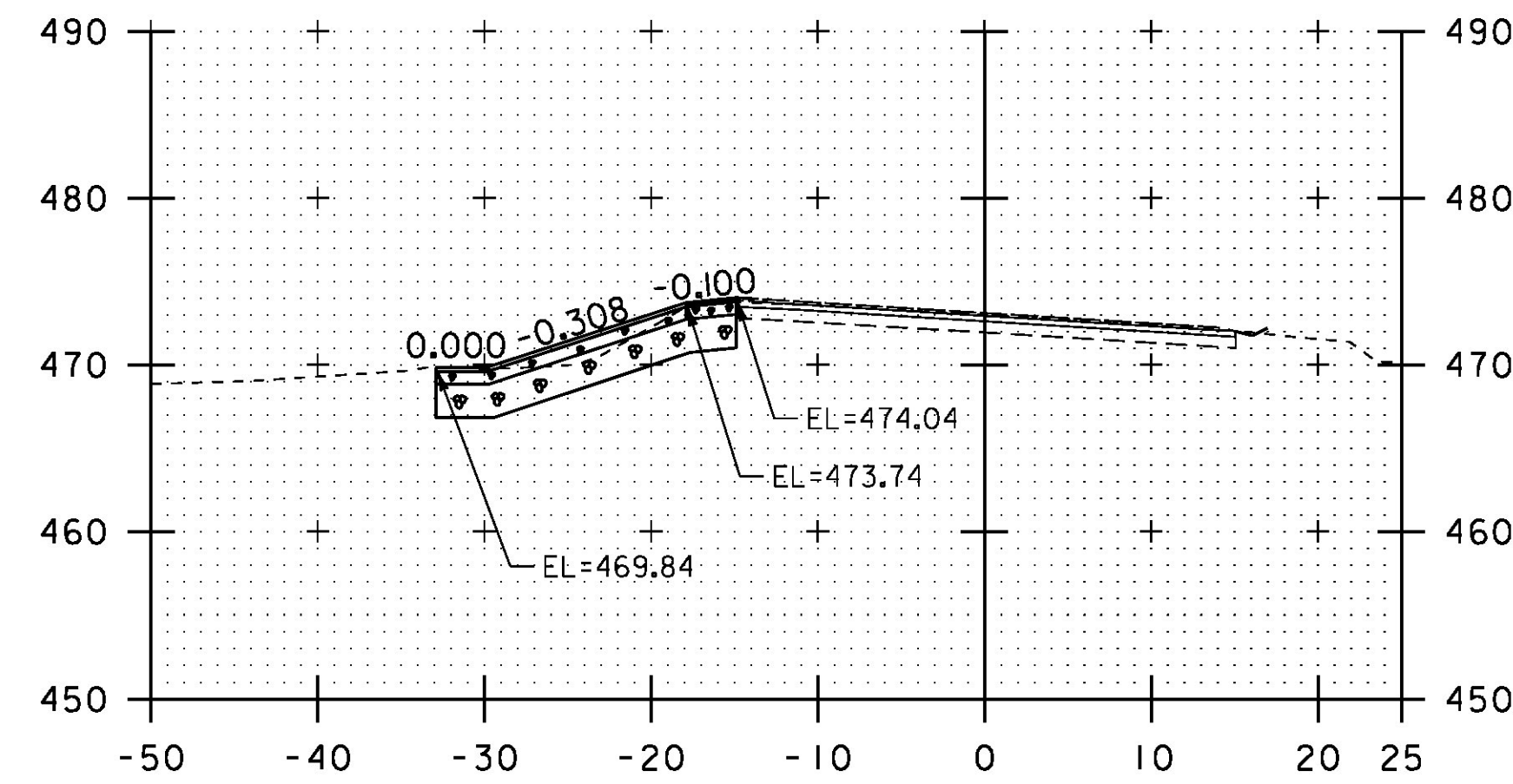
53+25 END PROJECT  
SPECIAL PROVISION (GABION MATTRESS)



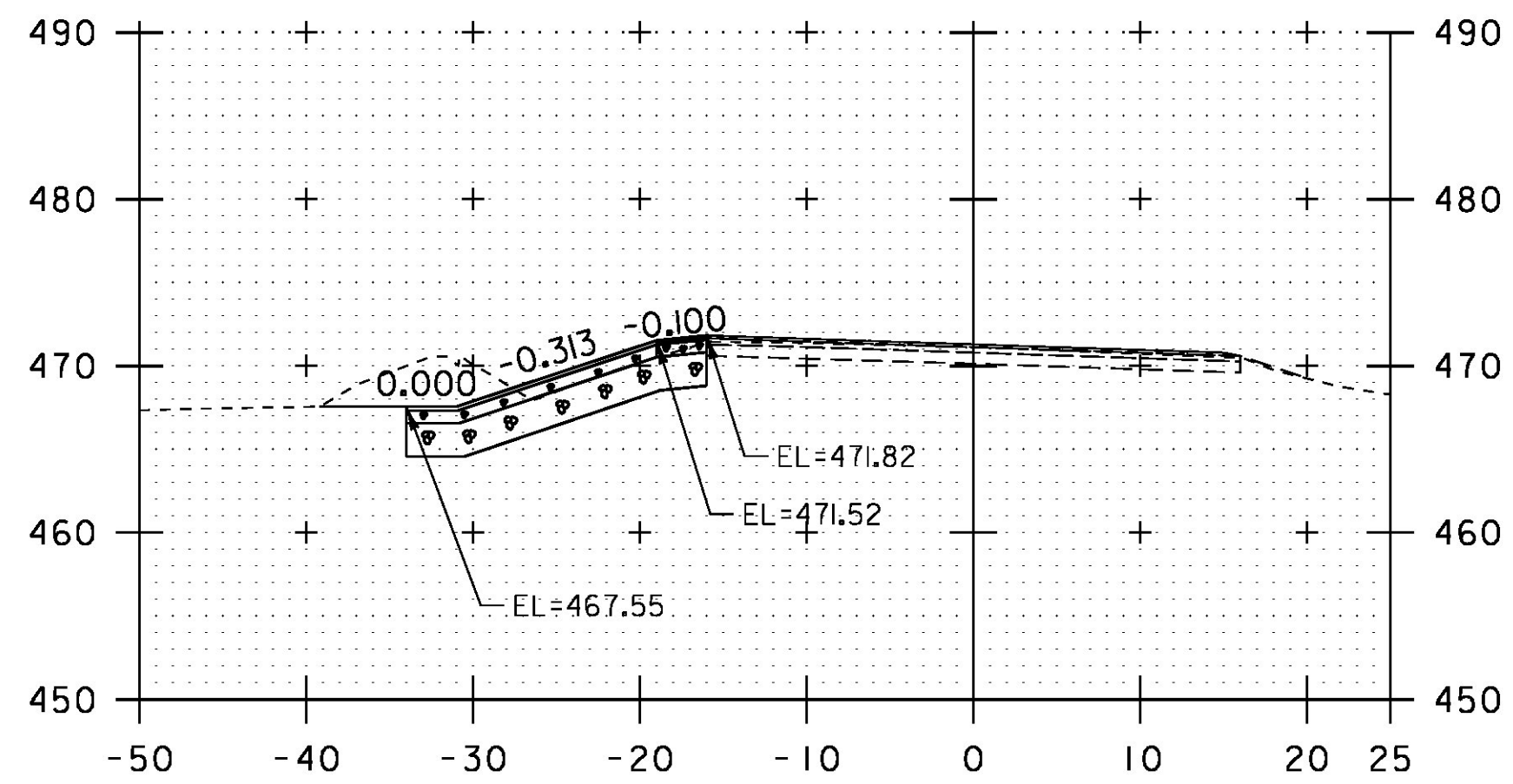
51+50



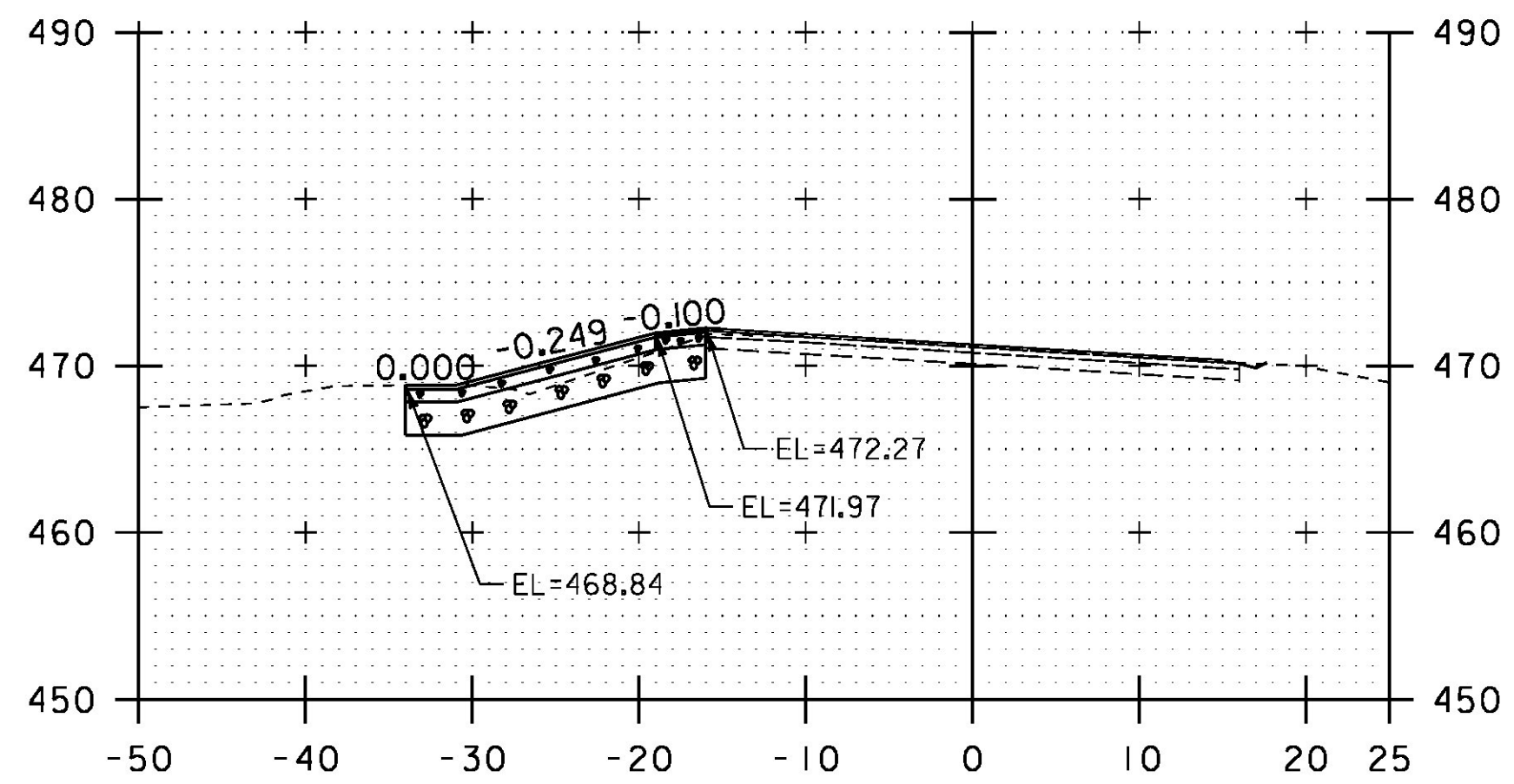
52+25



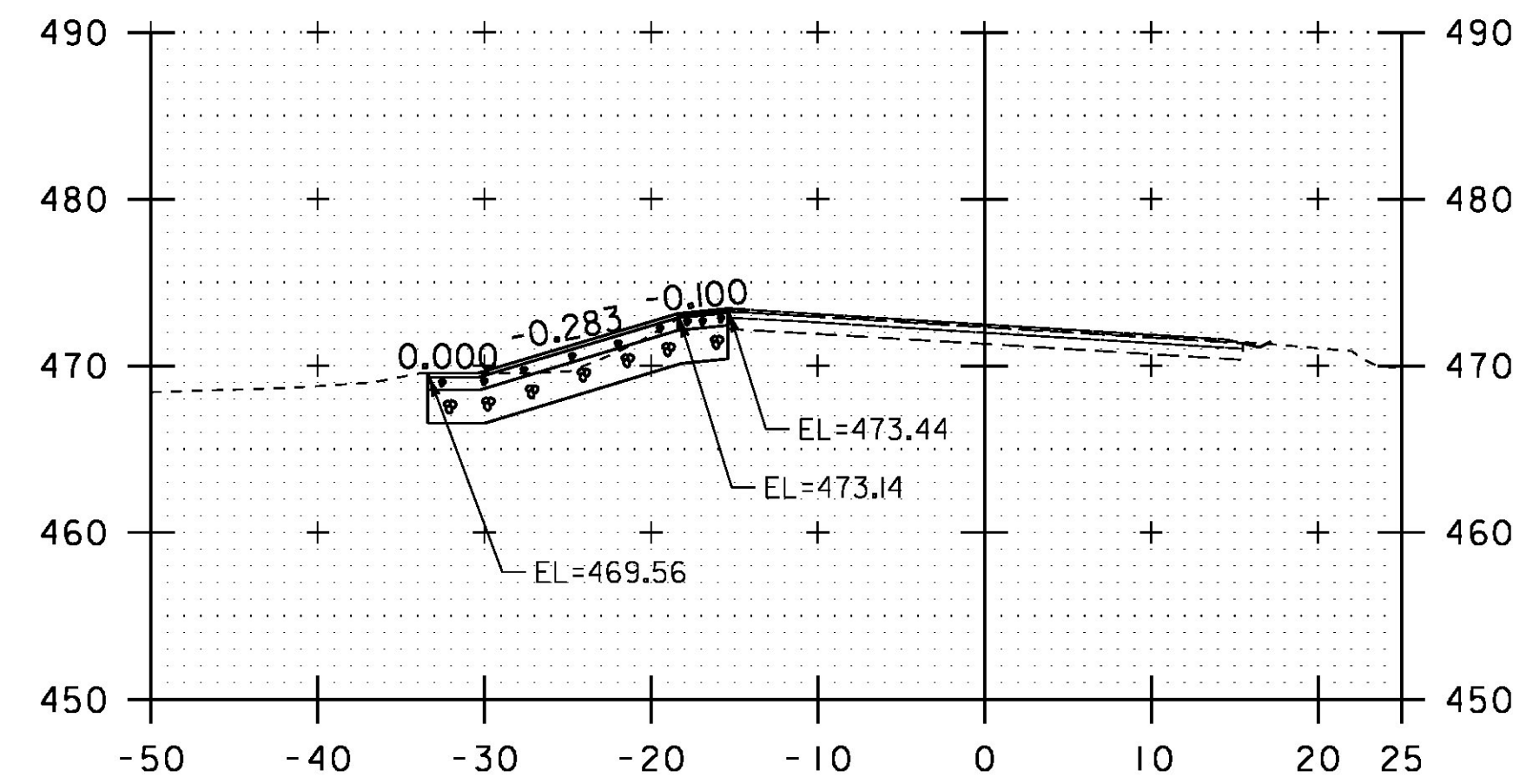
53+00



51+25



52+00



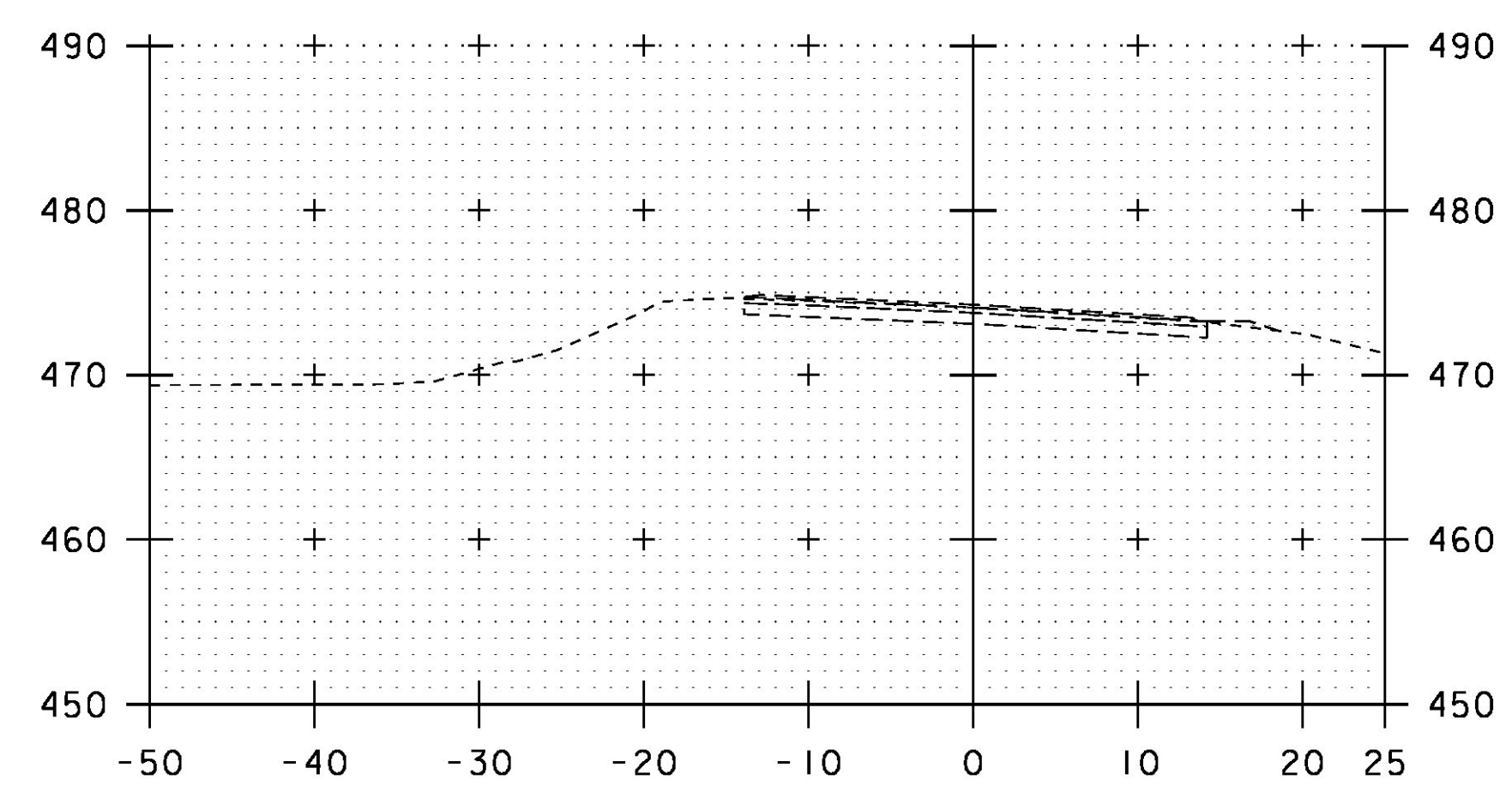
52+75

STA. 51+25 TO STA. 53+25

PROJECT NAME: ESSEX  
PROJECT NUMBER: STP 2912(2)

FILE NAME: p14v256\_wrk.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: N. PAPPAS  
GABION MATTRESS CROSS SECTION 3

PLOT DATE: 08-JUN-2015  
DRAWN BY: N. PAPPAS  
CHECKED BY: M. FOWLER  
SHEET 15 OF 17

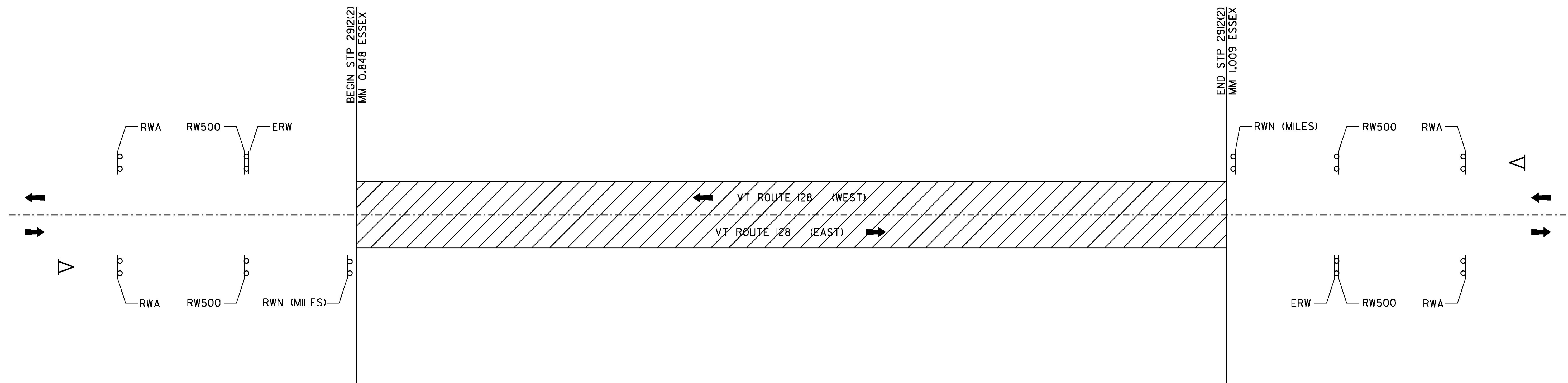


53+50

STA. 53+50 TO STA. 53+50

PROJECT NAME: ESSEX	PLOT DATE: 08-JUN-2015
PROJECT NUMBER: STP 2912(2)	DRAWN BY: N. PAPPAS
FILE NAME: p14v256_wrk.dgn	DESIGNED BY: N. PAPPAS
PROJECT LEADER: M. FOWLER	CHECKED BY: M. FOWLER
GABION MATTRESS CROSS SECTION 4	SHEET 16 OF 17

**CONSTRUCTION APPROACH SIGNING**



**NOTES:**

1. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD T-17 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, WILL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER WILL ALSO BE INCLUDED.

4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.

PCMS SHALL NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.

THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.

THE PCMS SHOULD COMMUNICATE WHAT INFORMATION MOTORISTS NEED TO KNOW. UNNECESSARY INFORMATION SHALL BE AVOIDED. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS.

5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

6. REFER TO VTRANS STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.

7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.

8. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

**LEGEND**

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK IN 500 FEET
- RWN = ROAD WORK NEXT (XX MILES)
- ERW = END ROAD WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ = WORK AREA
- ← = DIRECTION OF TRAFFIC FLOW

PROJECT NAME:	ESSEX
PROJECT NUMBER:	STP 2912(2)
FILE NAME: p14v256_detalls.dgn	PLOT DATE: 08-JUN-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: N. PAPPAS
DESIGNED BY: N. PAPPAS	CHECKED BY: M. FOWLER
CONSTRUCTION APPROACH SIGNING	SHEET 17 OF 17

NOT TO SCALE