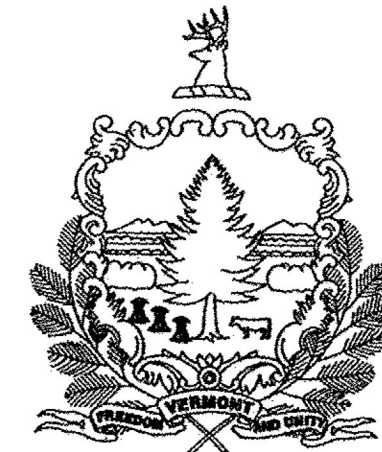
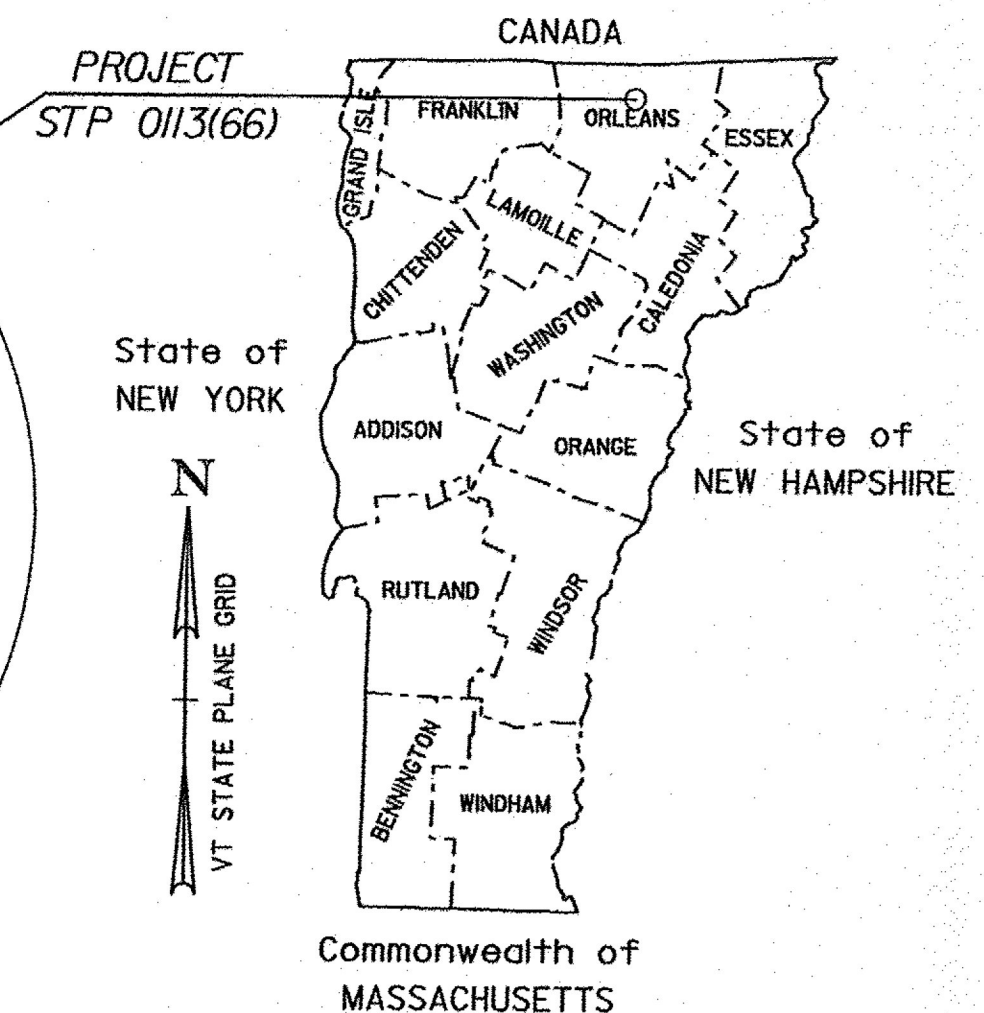
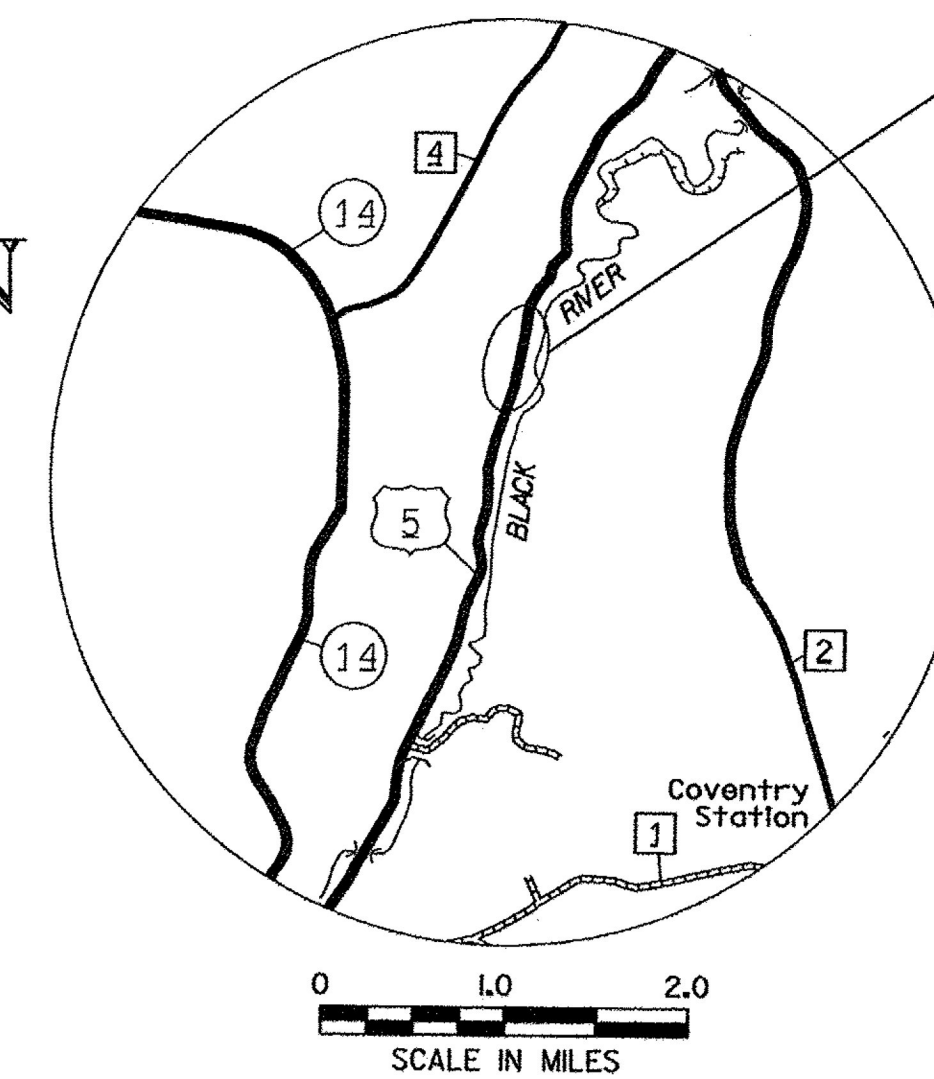


STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF COVENTRY COUNTY OF ORLEANS U.S. ROUTE 5 (MAJOR COLLECTOR)

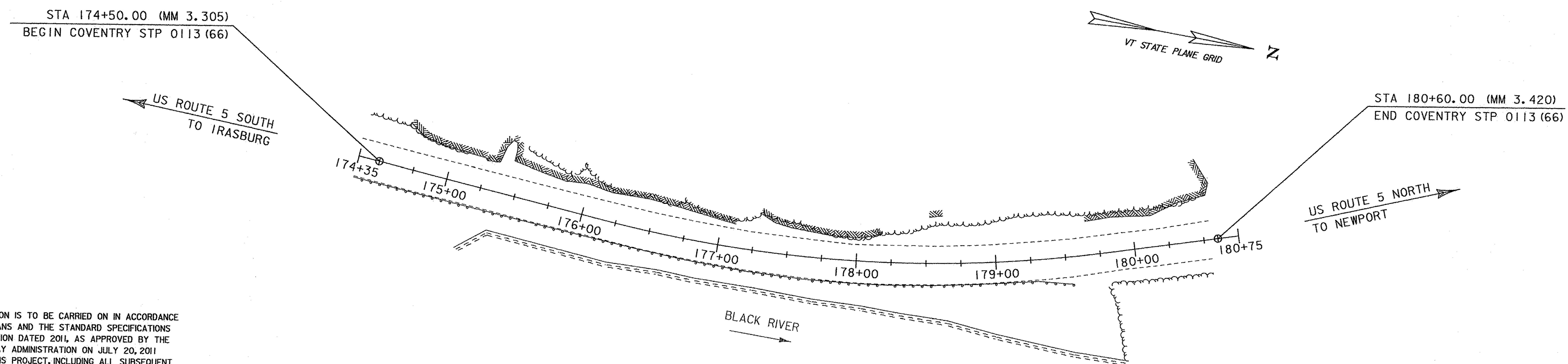


RECORD PLANS	
CONTRACTOR:	WINTerset, INC. - LYNDONVILLE, VT
RESIDENT ENGINEER:	MIKE BOOTH
CONSTRUCTION BEGAN:	JUNE 26, 2017
CONSTRUCTION COMPLETE:	SEPTEMBER 22, 2017
RECORD PLANS BY:	MIKE BOOTH & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY	RESIDENT ENGINEER
DATE <u>10-9-18</u>	
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.	

PROJECT LOCATION: BEGINNING IN THE TOWN OF COVENTRY ON U.S. ROUTE 5 AT STATION 174+50.00 (MM 3.305) EXTENDING NORTHERLY 610.00 FEET (0.116 MILES) TO STATION 180+60.00 (MM 3.420)

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES APPLICATION OF SHOTCRETE FACING ON THE SLOPE FACE, INSTALLATION OF ROCK DOWELS, HAND AND MACHINE SCALING OF SLOPE FACE.

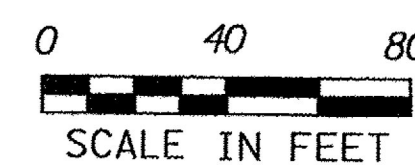
LENGTH OF PROJECT: 610.00 FT 0.116 MILES



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	
SURVEYED DATE : 07/29/10	
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (07)

TRAFFIC DATA - U.S. ROUTE 5					
YEAR	AADT	DHV	ADTT	% T	% D
2014	2600	280	400	11.6	57
2024	2700	290	470	13.1	57
<small>18 kip ESAL for flexible pavement from 2014 to 2024: 1,714,000 - 10 YRS 18 kip ESAL for flexible pavement from 2014 to 2034: 3,681,000 - 20 YRS Design speed: 50 MPH</small>					



DIRECTOR OF PROJECT DELIVERY	
APPROVED	DATE <u>2/15/2017</u>
PROJECT MANAGER : KEN UPMAL, P.E.	
PROJECT NAME : COVENTRY	
PROJECT NUMBER : STP 0113(66)	
SHEET 1 OF 29 SHEETS	

INDEX OF SHEETS

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. INDEX SHEET
- 3. CONVENTIONAL SYMBOLOGY LEGEND SHEET
- 4. TYPICAL SECTION SHEET
- 5.-6. DETAIL SHEETS
- 7. TIE SHEET
- 8. QUANTITY SHEET
- 9. PROJECT NOTES SHEET
- 10. PLAN SHEET
- 11. EPSC NARRATIVE SHEET
- 12.-13. EPSC DETAIL SHEETS
- 14. EPSC EXISTING CONDITIONS PLAN SHEET
- 15. EPSC CONSTRUCTION PLAN SHEET
- 16. EPSC FINAL CONDITIONS PLAN SHEET
- 17.-25. CROSS SECTION SHEETS
- 26.-29. TRAFFIC CONTROL SHEETS

VAOT STANDARD DRAWINGS



T-1	04/25/2016
T-10	08/06/2012
T-28	08/06/2012
T-30	08/06/2012

PROJECT NAME: COVENTRY	
PROJECT NUMBER: STP 0113(66)	
FILE NAME: d10c114frm.dgn	PLOT DATE: 10-APR-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
INDEX SHEET	SHEET 2 OF 29

REVISION	DATE	DESCRIPTION
	04-10-2017	REMOVED VAOT STANDARD DRAWING A-60

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
	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	BENCHMARK
▣	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 VALVE
⊕	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	
— UGU —	UTILITY (GENERIC-UNKNOWN)
— 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)	
— AGU —	UTILITY (GENERIC-UNKNOWN)
— 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	
— — — CZ — — —	CLEAR ZONE
— — — — —	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES	
△ — △ — △ — △ — △	TOP OF CUT SLOPE
⊕ — ⊕ — ⊕ — ⊕ — ⊕	TOE OF FILL SLOPE
⊕ ⊕ ⊕ ⊕ ⊕ ⊕	STONE FILL
— — — — —	BOTTOM OF DITCH
— — — — —	CULVERT PROPOSED
— — — — —	STRUCTURE SUBSURFACE
PDF — PDF —	PROJECT DEMARCATION FENCE
BF — — — — — BF — — — — —	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~ ~~~~ ~~~~ ~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLY	
— — — — —	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)
— — — — —	STATE ROW
— — — — —	TOWN ROW
— — — — —	PERMANENT EASEMENT LINE (P)
— — — — —	TEMPORARY EASEMENT LINE (T)
— — — — —	SURVEY LINE
P — — — — — P	PROPERTY LINE (P/L)
SR — — — — — SR	SLOPE RIGHTS
6f — — — — — 6f	6F PROPERTY BOUNDARY
4f — — — — — 4f	4F PROPERTY BOUNDARY
HAZ — — — — — HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLY**

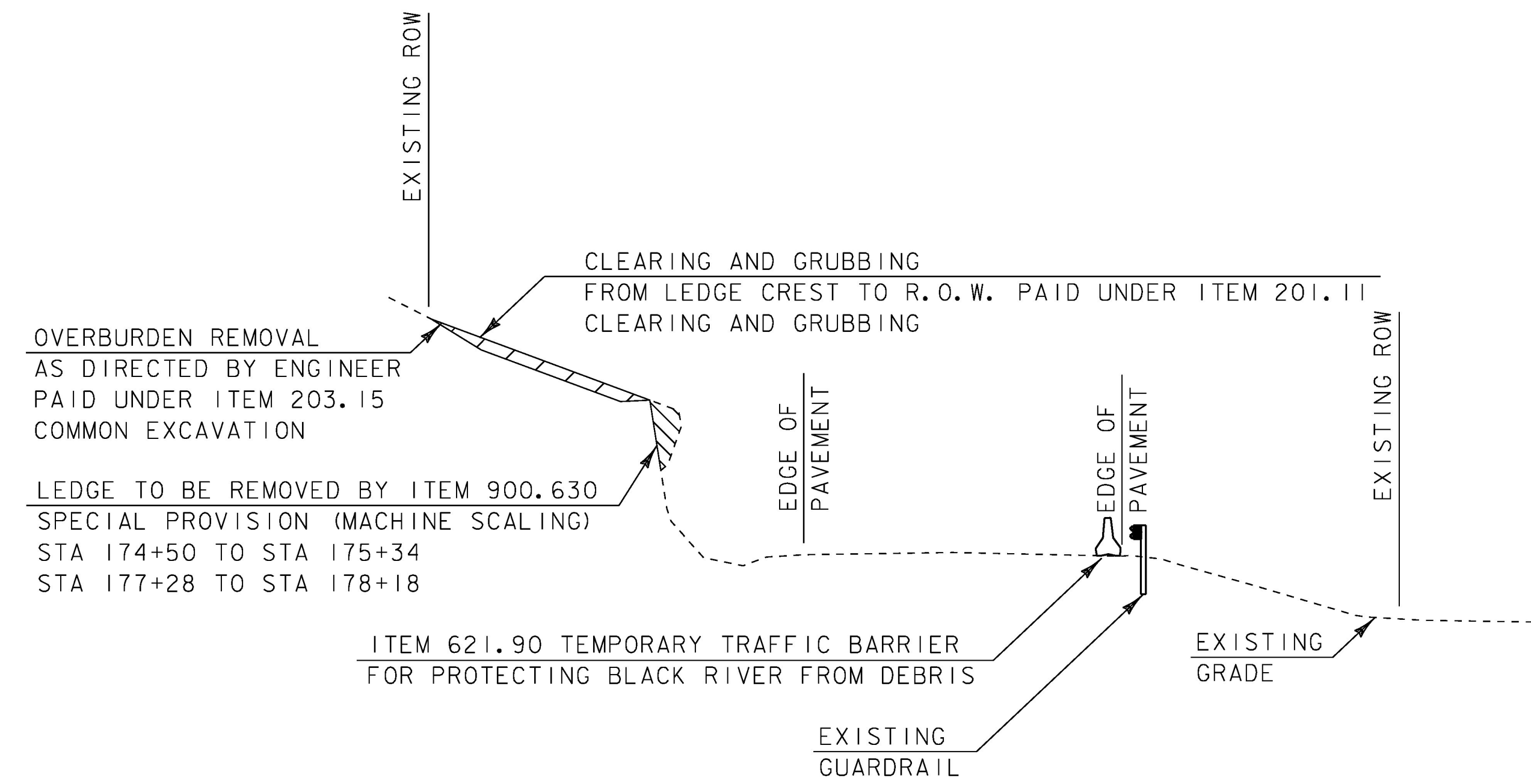
EPSC MEASURES	
ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— — — — —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
— — — — —	DISTURBED AREAS REQUIRING RE-VEGETATION
— — — — —	EROSION MATTING

ENVIRONMENTAL RESOURCES	
— — — — —	WETLAND BOUNDARY
— — — — —	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
— — — — —	SOIL TYPE BOUNDARY
— — — — —	THREATENED & ENDANGERED SPECIES
HAZ — — — — — HAZ	HAZARDOUS WASTE AREA
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	
— — — — —	ARCHEOLOGICAL BOUNDARY
— — — — —	HISTORIC DISTRICT BOUNDARY
— — — — —	HISTORIC AREA
(H)	HISTORIC STRUCTURE

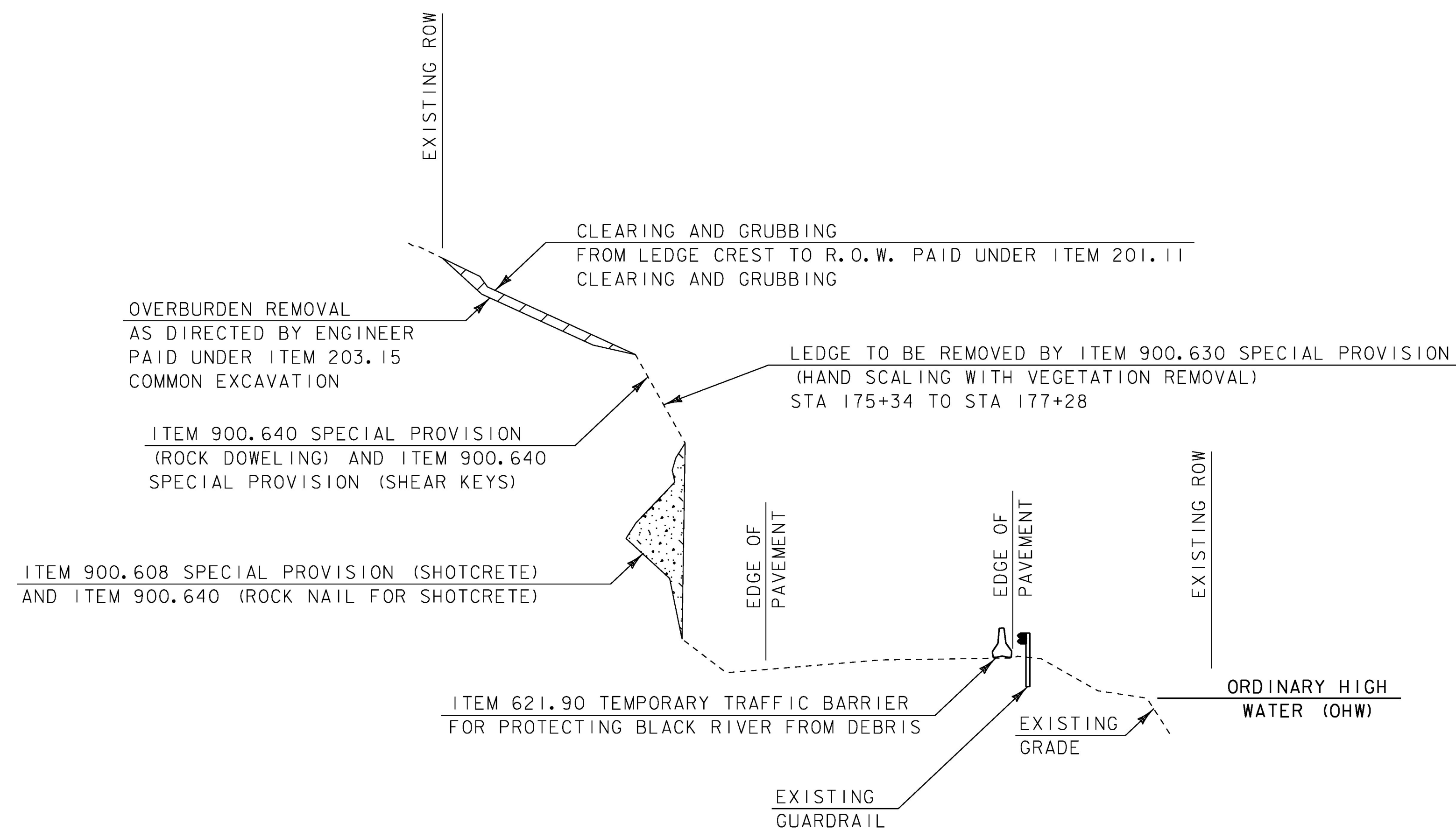
CONVENTIONAL TOPOGRAPHIC SYMBOLY	
— — — — —	EXISTING FEATURES
— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
x — x — x — x — x	FENCE (EXISTING)
□ — □ — □ — □ — □	FENCE WOOD POST
○ — ○ — ○ — ○ — ○	FENCE STEEL POST
— — — — —	GARDEN
—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

PROJECT NAME: COVENTRY  
 PROJECT NUMBER: STP 0113(66)  
 FILE NAME: d10c112frm.dgn PLOT DATE: 15-FEB-2017  
 PROJECT LEADER: K. UPMAL DRAWN BY: S. ZWICK  
 DESIGNED BY: S. ZWICK CHECKED BY: C. LEACH  
 CONVENTIONAL SYMBOLY LEGEND SHEET SHEET 3 OF 29



**TYPICAL SECTION - MACHINE SCALING**

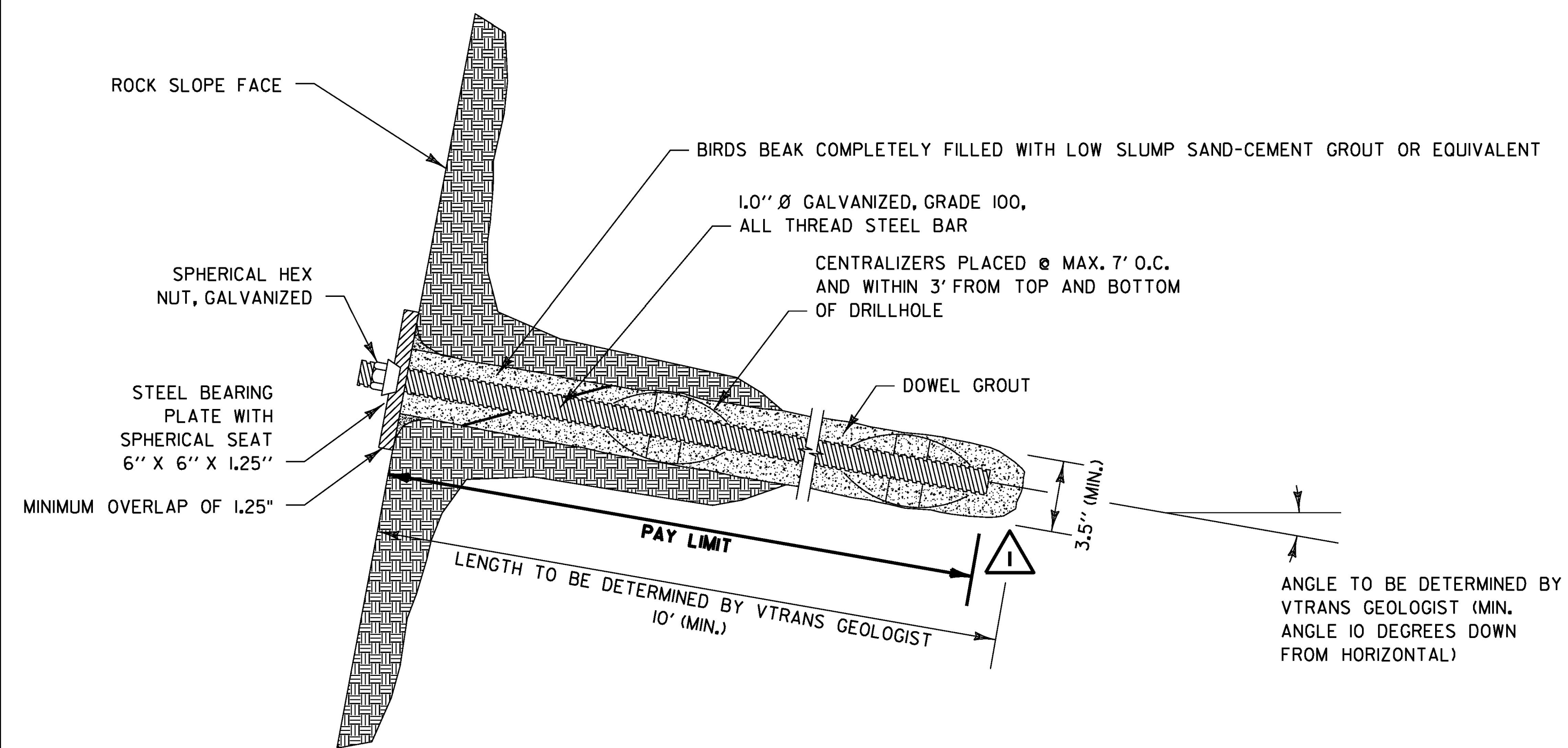
(NOT TO SCALE)  
 STA 174+50 TO 175+34  
 STA 177+28 TO 178+18



**TYPICAL SECTION - LEDGE STABILIZATION**

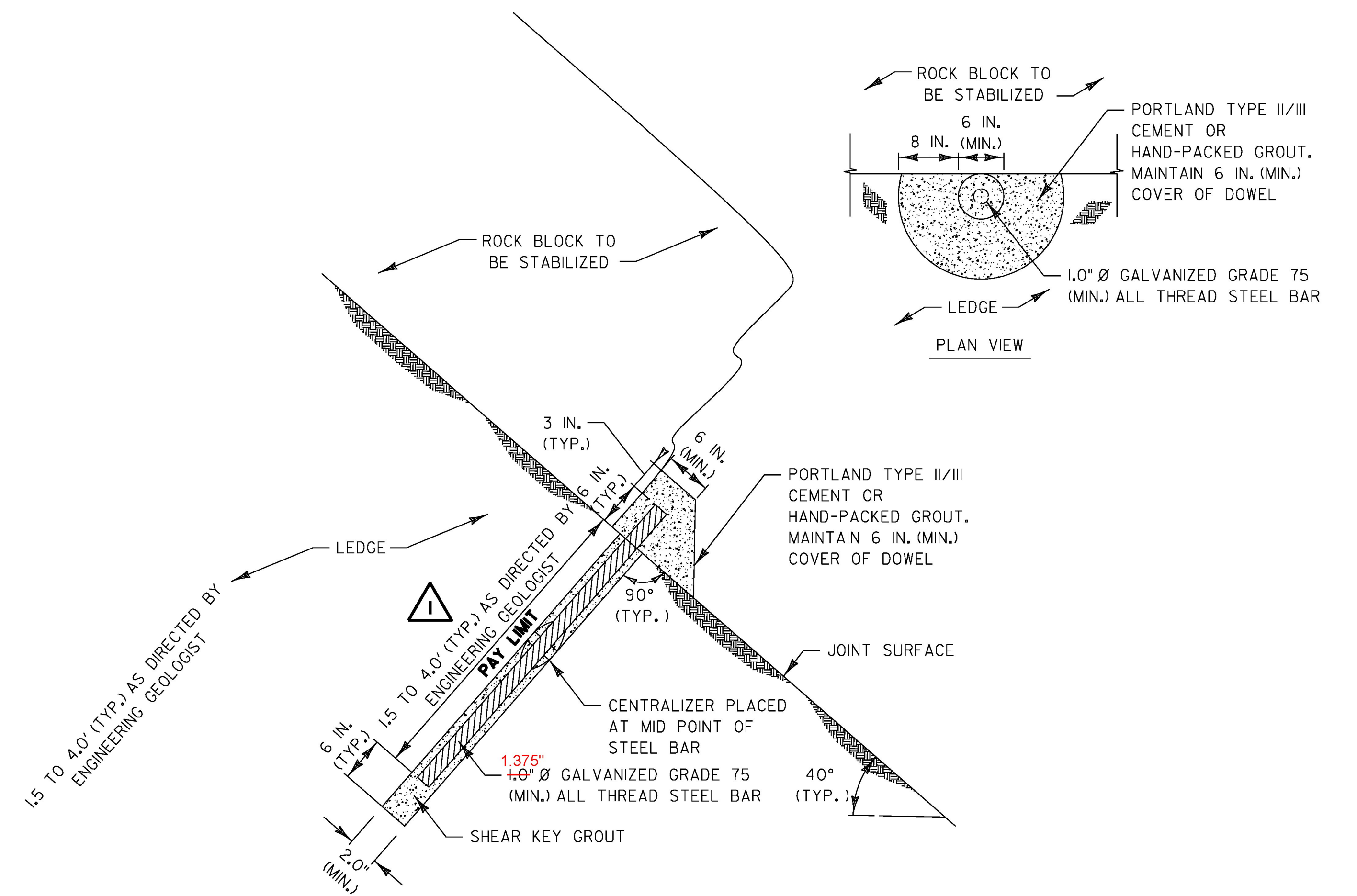
(NOT TO SCALE)  
 STA 175+34 TO STA 177+28

PROJECT NAME: COVENTRY	
PROJECT NUMBER: STP 0113(66)	
FILE NAME: d:\0c114frm.dgn	PLOT DATE: 15-FEB-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
TYPICAL SECTION SHEET	SHEET 4 OF 29



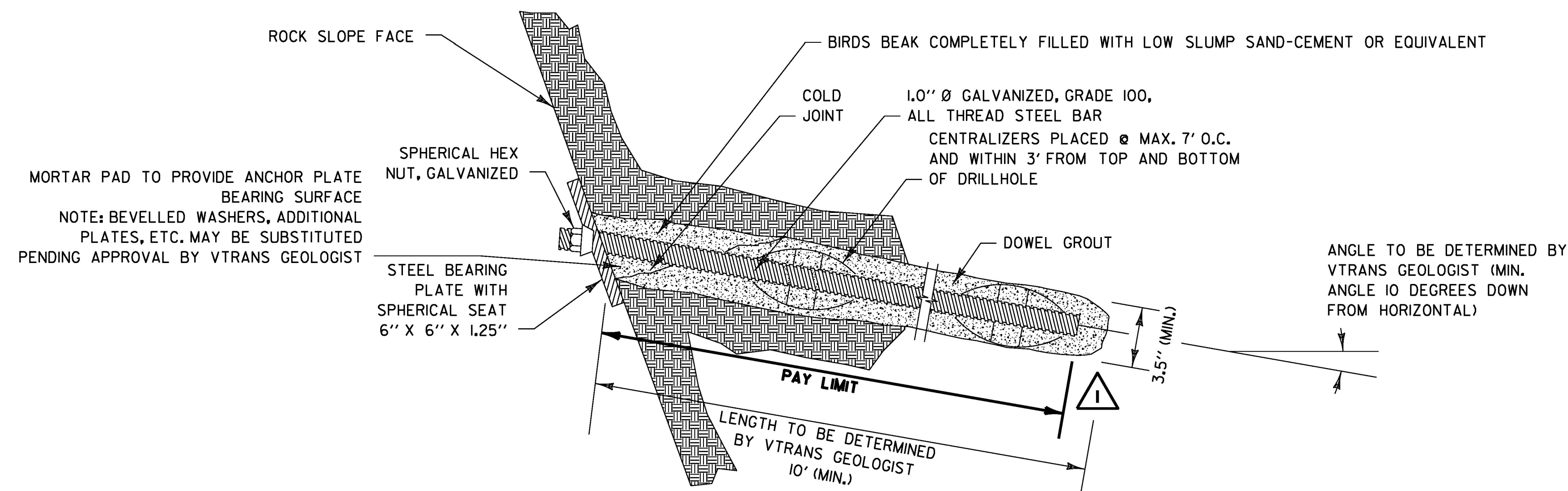
**TYPICAL ROCK DOWEL DETAIL**

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DOWELING)



**SHEAR KEY DETAIL**

PAY ITEM 900.640 SPECIAL PROVISION (SHEAR KEYS)



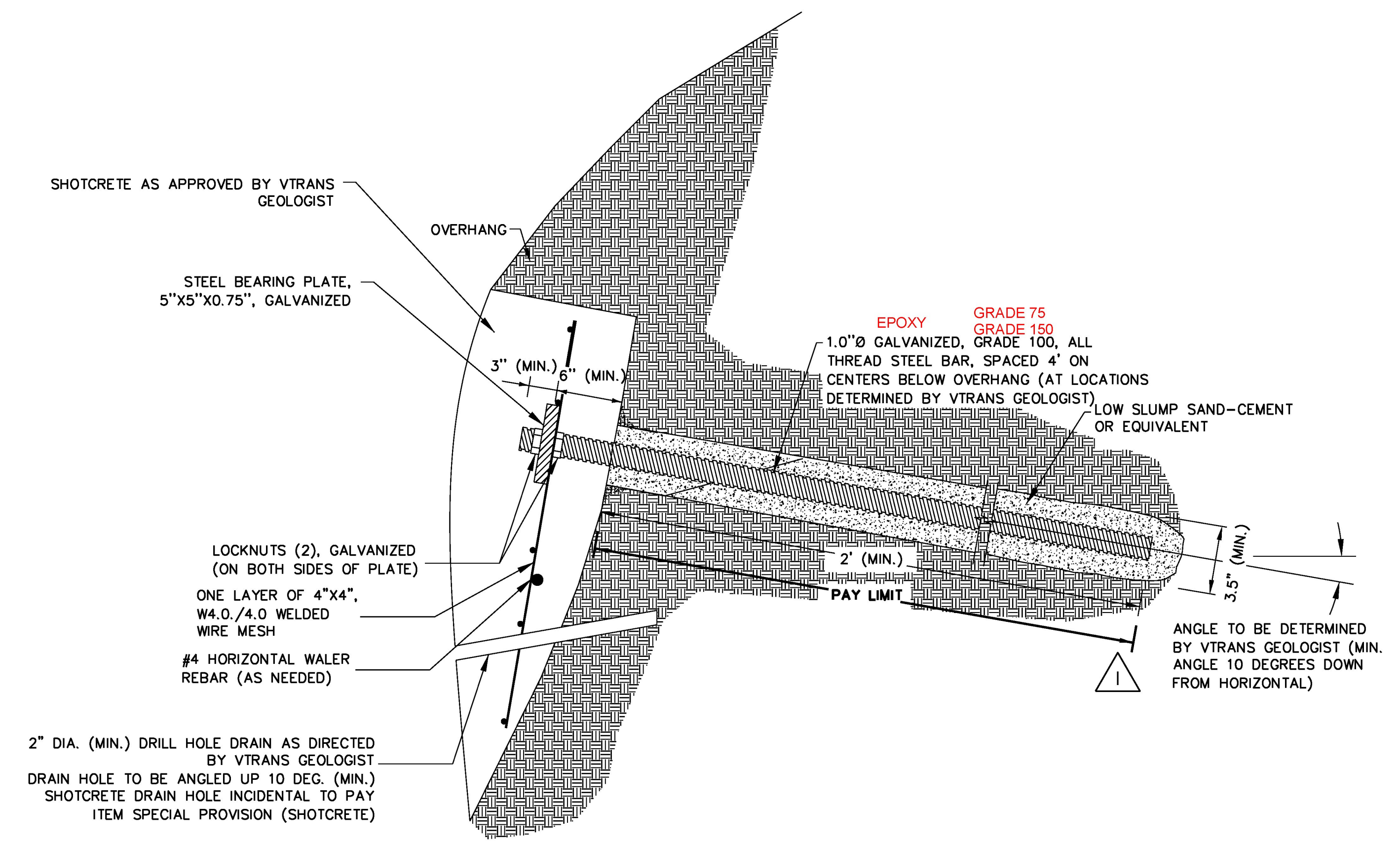
**TYPICAL ROCK DOWEL DETAIL OVERHANGING CONDITION**

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DOWELING)

NOT TO SCALE

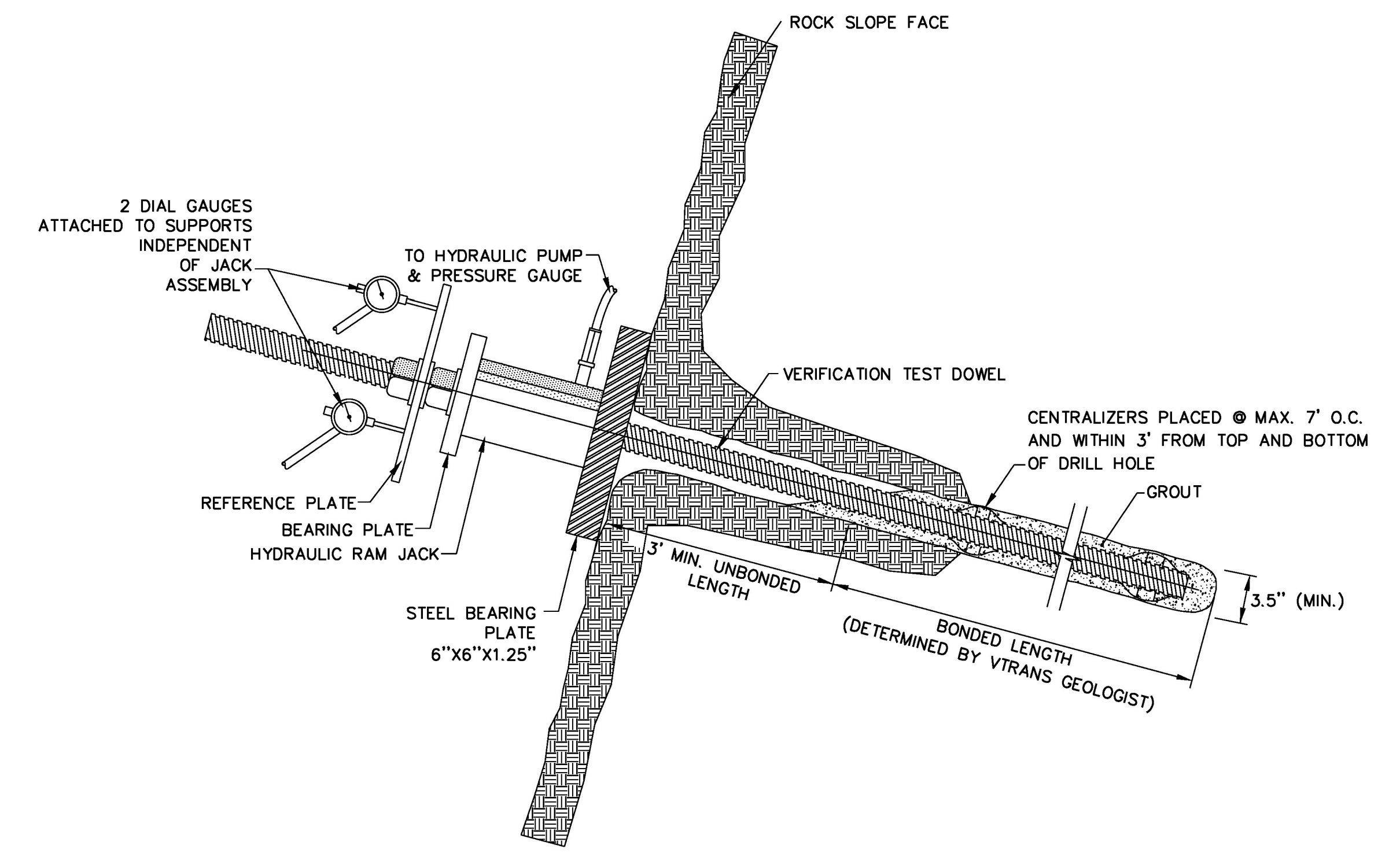
REVISION	DATE	DESCRIPTION
1	04-10-2017	ADDED PAY LIMIT DIMENSION

PROJECT NAME: COVENTRY	PLOT DATE: 10-APR-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d10c114det.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 5 OF 29
DESIGNED BY: S. ZWICK	
DETAIL SHEET 1	



TYPICAL SHOTCRETE BUTTRESS  
DETAIL WITH ROCK NAILS FOR  
SHOTCRETE

PAY ITEMS 900.608 SPECIAL PROVISION (SHOTCRETE) AND  
900.640 SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE)



TYPICAL PULL-OUT TEST  
ROCK DOWEL DETAIL

PAY ITEM 900.645 SPECIAL PROVISION (ROCK DOWEL TESTING)

NOT TO SCALE

REVISION	DATE	DESCRIPTION
1	04-07-2017	ADDED PAY LIMIT DIMENSION

PROJECT NAME:	COVENTRY	PLOT DATE:	10-APR-2017
PROJECT NUMBER:	STP 0113(66)	DRAWN BY:	S. ZWICK
FILE NAME:	d10c114de+.dgn	CHECKED BY:	C. LEACH
PROJECT LEADER:	K. UPMAL	DETAIL SHEET	2
DESIGNED BY:	S. ZWICK	SHEET	6 OF 29

GPS CONTROL POINTS

HVCTRL #1

ASHLEY J  
NORTH = 878089.834  
EAST = 1707698.017  
ELEV. = 687.054

GENERAL LOCATION, COVENTRY, VT.

TO REACH FROM THE INTERSECTION OF US ROUTE 5 SOUTH AND VT ROUTE 105 WEST IN NEWPORT, GO SOUTH ALONG US ROUTE 5 FOR 0.85 MI (1.4 KM) TO THE INTERSECTION OF AIRPORT ROAD LEFT. CONTINUE STRAIGHT AHEAD AND GO SOUTH ALONG US ROUTE 5 FOR 1.15 MI (1.9 KM) TO THE SITE OF THE MARK ON THE RIGHT AT THE NORTHEAST END OF A GRAVEL PULLOUT.

THE MARK IS SET 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT.

IT IS 9.1 M (29.9 FT) NORTHWEST OF AND ABOUT 0.5 M (1.6 FT) LOWER THAN THE CENTERLINE OF US ROUTE 5, 3.5 M (11.5 FT) SOUTH OF THE CENTER OF THE NORTHWEST (INLET) END OF A 60 CM (24 INCHES) DIAMETER PLASTIC CULVERT, 17.5 M (57.4 FT) SOUTHEAST OF A 25 CM (10 INCHES) MAPLE WITH TRIANGULAR BLAZE, 26.4 M (86.6 FT) EAST OF A 45 CM (18 INCHES) YELLOW BIRCH WITH TRIANGULAR BLAZE, AND 1.2 M (3.9 FT) SOUTHEAST OF A FIBERGLASS WITNESS POST.

BM #50

X 50  
NORTH = 878300  
EAST = 1707700  
ELEV. = 692.980

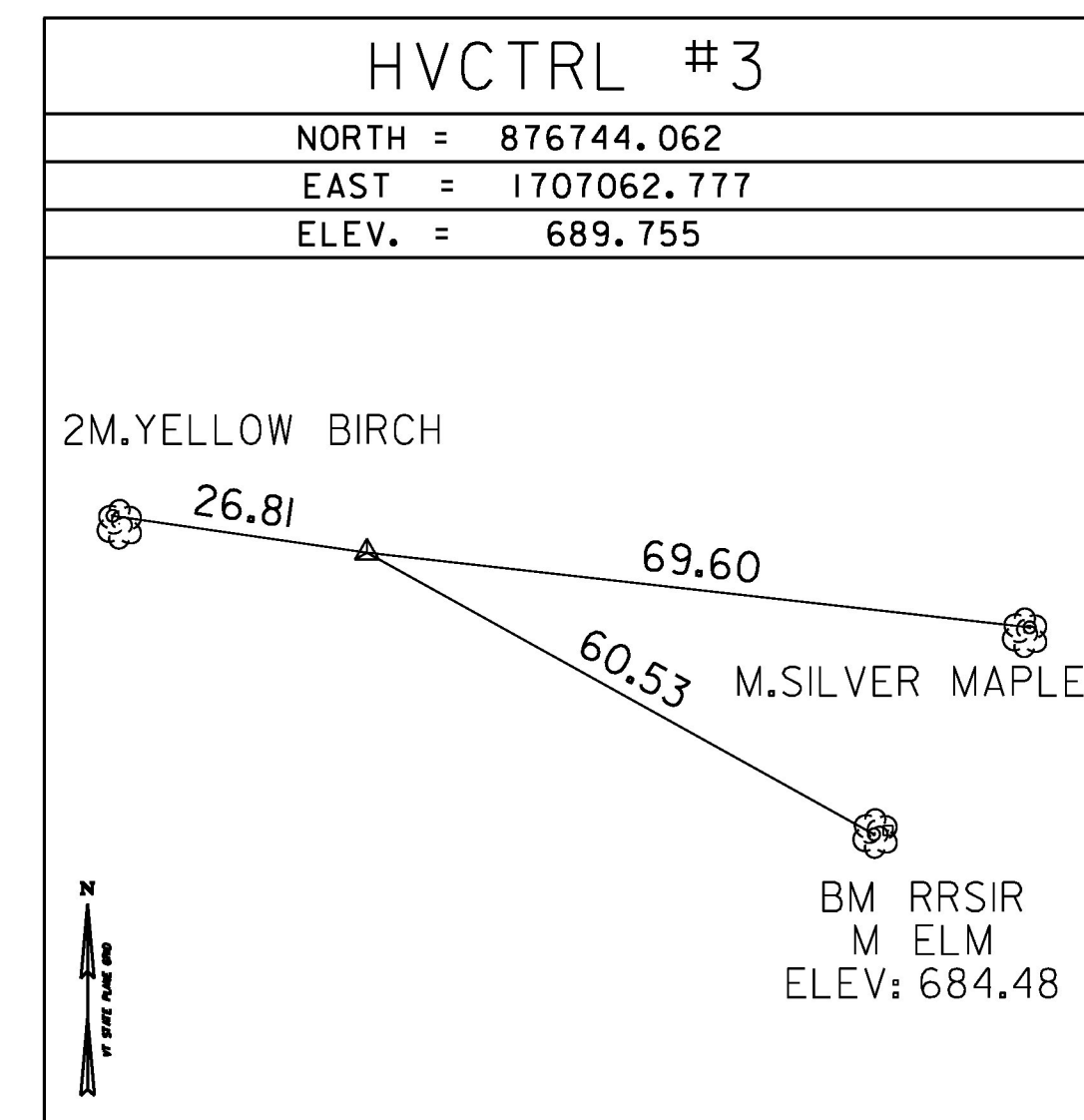
GENERAL LOCATION, COVENTRY, VT.

TO REACH FROM THE INTERSECTION OF US ROUTE 5 SOUTH AND VT ROUTE 105 WEST IN NEWPORT, GO SOUTH ALONG US ROUTE 5 FOR 0.85 MI (1.4 KM) TO THE INTERSECTION OF AIRPORT ROAD LEFT, CONTINUE SOUTH ALONG US ROUTE 5 FOR 1.9 MI (3.1 KM) TO THE SITE OF THE MARK ON THE RIGHT. TO REACH FROM THE INTERSECTION OF US ROUTE 5 AND VT ROUTE 14, GO NORTH ALONG US ROUTE 5 FOR 3.2 MI (5.1 KM) TO THE SITE OF THE MARK ON THE LEFT.

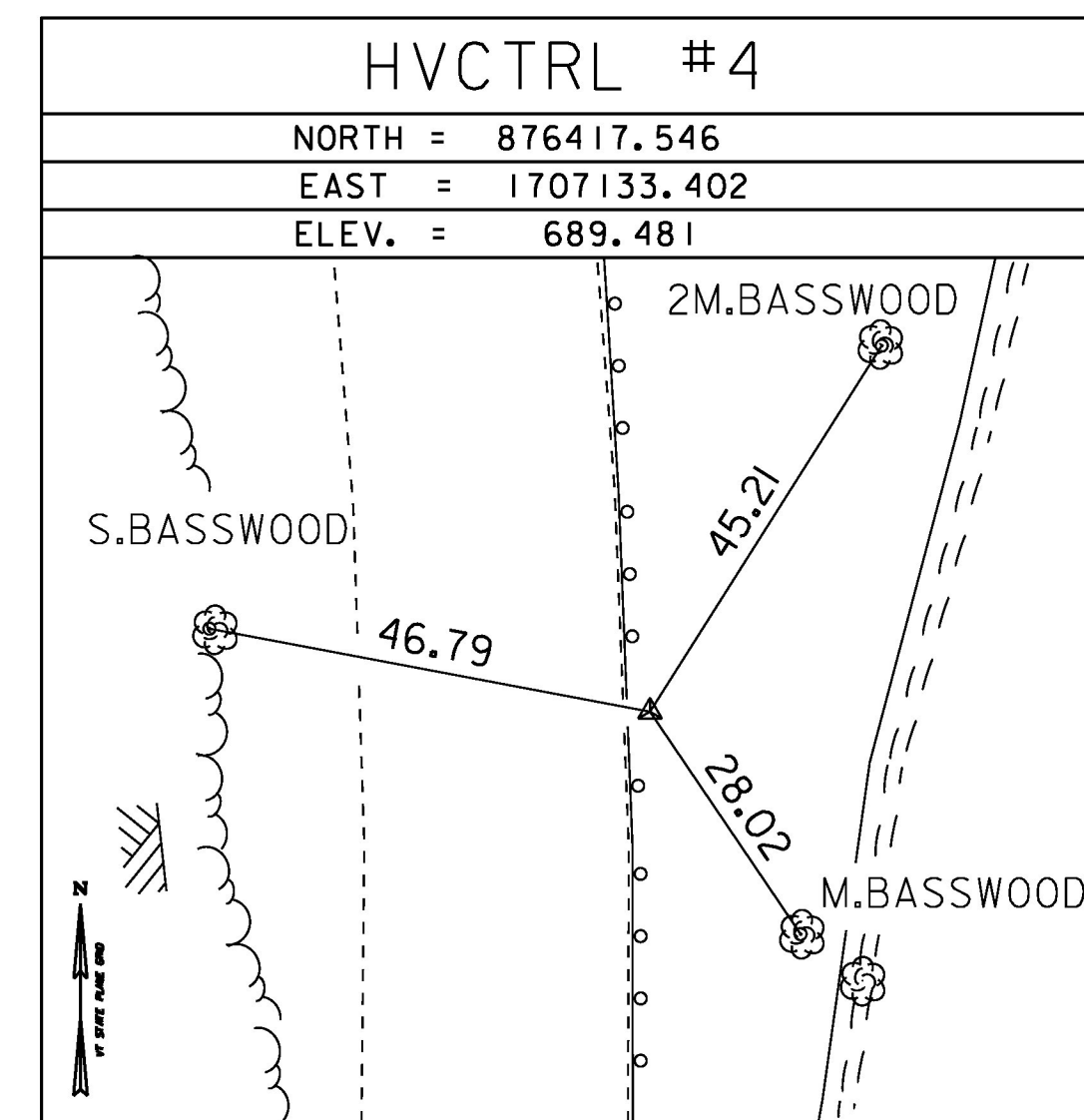
THE MARK IS SET VERTICALLY IN THE FACE OF A MASSIVE LEDGE.

IT IS 11.6 M (38.1 FT) NORTHWEST OF AND ABOUT 2.3 M (7.5 FT) HIGHER THAN THE CENTERLINE OF US ROUTE 5, 63.1 M (207.0 FT) SOUTHWEST OF AND ACROSS THE ROAD FROM THE (INLET) END OF A 45 CM (18 INCHES) DIAMETER METAL CULVERT, 28.4 M (93.2 FT) WEST-SOUTHWEST OF AND ACROSS THE ROAD FROM A METAL POST FOR ROAD MARKER.

TRAVERSE TIES



*Main Traverse Completed 7/29/2010 by R. Gilman P.C. & P. Winters



GPS CONTROL POINT

HVCTRL #5

FLOWER  
NORTH = 875910.338  
EAST = 1707048.977  
ELEV. = 687.834

GENERAL LOCATION, COVENTRY, VT.

TO REACH FROM THE INTERSECTION OF US ROUTE 5 SOUTH AND VT ROUTE 105 WEST IN NEWPORT, GO SOUTH ALONG US ROUTE 5 FOR 0.85 MI (1.4 KM) TO THE INTERSECTION OF AIRPORT ROAD LEFT. CONTINUE STRAIGHT AHEAD AND GO SOUTH ALONG US ROUTE 5 FOR 1.15 MI (1.9 KM) TO THE SITE OF THE MARK ON THE LEFT. IT IS OPPOSITE OF THE NORTH END OF A GRAVEL PULLOUT.

THE MARK IS SET 15 CM (6 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT.

IT IS 6.3 M (20.7 FT) EAST-SOUTHEAST OF AND ABOUT 0.5 M (1.6 FT) LOWER THAN THE CENTERLINE OF US ROUTE 5, 10.9 M (35.8 FT) SOUTHWEST OF THE CENTER OF THE EAST-SOUTHEAST (OUTLET) END OF A 50 CM (20 INCHES) DIAMETER PLASTIC CULVERT, 44.7 M (146.7 FT) NORTHEAST OF THE CENTER OF THE EAST-SOUTHEAST (OUTLET) END OF A 40 CM (16 INCHES) DIAMETER METAL CULVERT, AND 1.1 M (3.6 FT) EAST-SOUTHEAST OF THE SOUTH END POST OF A METAL GUARDRAIL AND A FIBERGLASS WITNESS POST.

ALIGNMENT TIES

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (07)

ADJUSTMENT COMPASS

PROJECT NAME: COVENTRY

PROJECT NUMBER: STP 0113(66)

FILE NAME: x10c114+1.dgn PLOT DATE: 15-FEB-2017

PROJECT LEADER: K. UPMAL DRAWN BY: R. BULLOCK

DESIGNED BY: VTRANS CHECKED BY: P. BEYOR

TIE SHEET SHEET 7 OF 29

# 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
								0.25			0.25	0.27	ACRE	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.11	0.08			
								200			200	0	CY	COMMON EXCAVATION	203.15	13			
								50			50	0	CY	SOLID ROCK EXCAVATION	203.16	EST.			
								1			1	0	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			
								30			30	3	HR	POWER BROOM RENTAL, TYPE I	608.30				
											30	0	HR	POWER BROOM RENTAL, TYPE II	608.31	EST.			
								500			500	500	LF	TEMPORARY TRAFFIC BARRIER	621.90	-			
								80			80		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
								240			240		HR	FLAGGERS	630.15	EST.			
										1	1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
										3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	EST.			
								1			1		LS	MOBILIZATION/DEMobilIZATION	635.11	-			
								1			1		LS	TRAFFIC CONTROL	641.10	-			
								7			7		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
									20		20		SY	GEOTEXTILE FOR SILT FENCE	649.51	-			
									240		240		SY	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515	-			
									10		10		LB	SEED	651.15	3			
									40		40		LB	FERTILIZER	651.18	9			
									0.5		0.5		TON	AGRICULTURAL LIMESTONE	651.20	0.37			
									0.5		0.5		TON	HAY MULCH	651.25	0.37			
								20			20		CY	TOPSOIL	651.35	2			
									1		1		LS	EPSC PLAN	652.10	-			
									10		10		HR	MONITORING EPSC PLAN	652.20	EST.			
									1		1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-			
									400		400		SY	TEMPORARY EROSION MATTING	653.20	96			
									400		400		LF	PROJECT DEMARCATION FENCE	653.55	15			
								100			100		CY	SPECIAL PROVISION (REMOVAL OF LEDGE SALVAGE MATERIAL)	900.608	EST.			
								300			300		CY	SPECIAL PROVISION (REMOVAL OF LEDGE WASTE MATERIAL)	900.608	EST.			
								96			96		CY	SPECIAL PROVISION (SHOTCRETE)	900.608	EST.			
								30000			30000		DL	SPECIAL PROVISION (INCENTIVE/DISINCENTIVE) (N.A.B.I.)	900.615	-			
								4			4		EACH	SPECIAL PROVISION (CPM SCHEDULE)	900.620	-			
								77			77		HR	SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL)	900.630	EST.			
								8			8		HR	SPECIAL PROVISION (MACHINE SCALING)	900.630	EST.			
								300			300	133	LF	SPECIAL PROVISION (ROCK DOWELING)	900.640	EST.			
								350			350	928	LF	SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE)	900.640	EST.			
								28			28	24	LF	SPECIAL PROVISION (SHEAR KEYS)	900.640	EST.			
								1			1		LS	SPECIAL PROVISION (ROCK DOWEL TESTING)	900.645	-			

PROJECT NAME: COVENTRY  
 PROJECT NUMBER: STP 0113(66)  
 FILE NAME: d:\0c14frm.dgn PLOT DATE: 08-MAR-2017  
 PROJECT LEADER: K. UPMAL DRAWN BY: S. ZWICK  
 DESIGNED BY: S. ZWICK CHECKED BY: C. LEACH  
 QUANTITY SHEET SHEET 8 OF 29

GENERAL

1. IN ACCORDANCE WITH SUBSECTION 107.12 THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING PAVEMENT, PAVEMENT MARKINGS, GUARDRAIL, FENCING, PIPES, DROP INLETS, CONCRETE SIGN FOUNDATIONS AND HEADWALLS. THE CONTRACTOR, AT NO ADDITIONAL COMPENSATION, SHALL REPAIR ALL EXISTING PAVEMENT, PAVEMENT MARKINGS, GUARDRAIL, FENCING, PIPES, DROP INLETS, CONCRETE SIGN FOUNDATIONS AND HEADWALLS DAMAGED DURING CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.
2. THE CONTRACTOR SHALL REMOVE, STOCKPILE, AND REINSTALL SIGNS, MILE MARKER POSTS, AND DELINEATORS WHERE REQUIRED WORK MAY CAUSE DAMAGE TO THEM. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10 TRAFFIC CONTROL.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF BURIED CABLE THROUGH DIG SAFE AND CONTRACT ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B. I) PRIOR TO THE START OF LEDGE REMOVAL OPERATIONS.
4. ALL WORK SHALL BE COMPLETED WITHIN THE EXISTING STATE OF VERMONT RIGHT OF WAY.
5. THE CONTRACTOR SHALL ADEQUATELY MAINTAIN THE EXISTING DITCH LINE TO ENSURE PROPER DRAINAGE DURING CONSTRUCTION ACTIVITIES AND UPON COMPLETION OF THE WORK, AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.

CLEARING AND GRUBBING

1. ALL VEGETATION SHALL BE REMOVED FROM THE EDGE OF PAVEMENT TO THE TOE OF LEDGE AND FROM THE FINAL CREST OF LEDGE TO THE RIGHT OF WAY BOUNDARY. THIS WORK WILL BE PAID UNDER ITEM 201.11 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS.
2. ALL VEGETATION AND SOILS SHALL BE REMOVED FROM THE FACE OF THE LEDGE TO THE FINAL CREST OF THE LEDGE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 900.630 SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL)
3. ALL VEGETATION, INCLUDING REMOVED LIMBS, FOR ITEM 201.11 AND ITEM 900.630 SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL) SHALL BE CLEARED AND DISPOSED OF IN ACCORDANCE WITH SECTION 201 AND THE CONTRACT DOCUMENTS.
4. INDIVIDUAL TREES THAT ARE DEEMED TO BE AT RISK OF FALLING BY THE ENGINEER, OUTSIDE OF THE CLEARING AREA IDENTIFIED ON THE PLANS, SHALL BE REMOVED. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 201.11 CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN, TO THE SATISFACTION OF THE ENGINEER, A NEAT TREE LINE ALONG THE AREA TO BE CLEARED. THIS WORK WILL BE CONSIDERED INCIDENTAL TO ITEM 201.11 CLEARING AND GRUBBING, INCLUDING TREES AND STUMPS.
6. AN ESTIMATED QUANTITY OF ITEM 651.35 TOPSOIL HAS BEEN ADDED IF THE ENGINEER DEEMS NECESSARY THAT RESHAPING OF THE DITCH REQUIRES ADDITIONAL MATERIAL ONCE THE LEDGE HAS BEEN REMOVED/STABILIZED.
7. AN ESTIMATED QUANTITY OF ITEM 651.25 HAY MULCH HAS BEEN ADDED IF THE ENGINEER DEEMS ITS USE NECESSARY.
8. THE CONTRACTOR MAY GRIND OR TREAT STUMPS WITH THE EXCEPTION OF THOSE DESIGNATED FOR REMOVAL WITHIN THE CLEARING AND GRUBBING AREAS ON THE ROCK FACE. THE CONTRACTOR SHALL ENSURE THAT THE STUMPS WILL NOT GROW BACK. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 201.11.



**IF HERBICIDES ARE USED TO TREAT EXISTING STUMPS, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY ADDITIONAL PERMITTING THAT MAY BE REQUIRED FROM OTHER AGENCIES INCLUDING, BUT NOT LIMITED TO, THE DEPARTMENT OF AGRICULTURE, AGENCY OF NATURAL RESOURCES, ETC. WORK SHALL BE CONDUCTED BY A LICENSED APPLICATOR AND PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 201.11.**



**OVERBURDEN WORK WILL BE PAID UNDER ITEM 203.15 COMMON EXCAVATION. OVERBURDEN MAY NOT BE NECESSARY IN AREAS DUE TO LIMITED ACCESS AND LOCATIONS SHALL BE DETERMINED BY VTRANS GEOLOGIST AND/OR ENGINEER IN THE FIELD. IN LOCATIONS WHERE OVERBURDEN IS DEEMED NOT NECESSARY PER GEOLOGIST AND/OR ENGINEER, STUMPS DO NOT NEED TO BE REMOVED BUT STUMPS WILL BE TREATED SO AS TO NOT GROW BACK.**

LEDGE REMOVAL

1. LEDGE REMOVAL SHALL CONSIST OF THE REMOVAL OF LOOSE ROCK FROM THE LEDGE CUT USING THE FOLLOWING CONTRACT ITEMS:  
 900.608 SPECIAL PROVISION (REMOVAL OF LEDGE SALVAGE MATERIAL) CY  
 900.608 SPECIAL PROVISION (REMOVAL OF LEDGE WASTE MATERIAL) CY  
 900.630 SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL) HR  
 900.630 SPECIAL PROVISION (MACHINE SCALING) HR
2. LIMITS OF LEDGE REMOVAL INVOLVING HAND SCALING AND MACHINE SCALING INCLUDES THE ENTIRE FACE OF LEDGE AS NEEDED OR AS DETERMINED BY THE ENGINEER OR GEOLOGIST. THE CONTRACTOR SHALL PERFORM ANY ADDITIONAL WORK WITHIN THE PROJECT LIMITS AT THE UNIT PRICES PROVIDED IN THE CONTRACT UNDER THE FOLLOWING ITEMS: 203.16 SOLID ROCK EXCAVATION, 900.630 SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL) AND 900.630 SPECIAL PROVISION (MACHINE SCALING).
3. APPROXIMATE LIMITS OF LEDGE REMOVAL METHODS ARE:  
 STATION 174+50-175+34: MACHINE SCALING  
 STATION 175+34-177+28: HAND SCALING WITH VEGETATION REMOVAL  
 STATION 177+28-178+18: MACHINE SCALING
4. LIMITS OF THE TOE OF LEDGE SHALL BE DETERMINED BY THE ENGINEER, VTRANS GEOLOGIST AND THE CONTRACTOR BEFORE ANY LEDGE WORK BEGINS.
5. A QUANTITY OF LEDGE MATERIAL SHALL BE SALVAGED TO THE STATE OF VERMONT. THE LONGEST DIMENSION OF THE SALVAGED STONE SHALL NOT EXCEED 36" IN LENGTH. ALL SALVAGED MATERIAL SHALL BE DELIVERED TO THE VERMONT AGENCY OF TRANSPORTATION DISTRICT 9 IRASBURG FACILITY. COORDINATION SHALL BE MADE TWO WEEKS IN ADVANCE OF THE INITIAL DELIVERY, AND AS NEEDED, TO IDENTIFY THE LOCATION. COORDINATION SHALL BE MADE THROUGH JOSEPH GEOFFROY, AREA MAINTENANCE SUPERVISOR [TEL.: (802) 754-6436]. LOADING, TRANSPORTING, UNLOADING AND STOCKPILING OF MATERIAL WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.608 SPECIAL PROVISION (REMOVAL OF LEDGE SALVAGE MATERIAL).
6. THE CONTRACTOR SHALL TAKE CARE DURING THE LEDGE REMOVAL TO KEEP LEDGE MATERIAL AND DEBRIS FROM ENTERING THE BLACK RIVER DURING CONSTRUCTION. TEMPORARY TRAFFIC BARRIER SHALL BE PLACED AS IDENTIFIED ON THE PLANS AND TO STOP LEDGE AND DEBRIS FROM ENTERING THE BLACK RIVER, AND WILL BE PAID FOR UNDER ITEM 621.90 TEMPORARY TRAFFIC BARRIER.
7. AN ESTIMATED QUANTITY OF ITEM 203.16 SOLID ROCK EXCAVATION HAS BEEN ADDED IF THE ENGINEER DEEMS ITS USE NECESSARY.

LEDGE STABILIZATION

1. SHOTCRETE AND ROCK NAIL FOR SHOTCRETE LOCATIONS SHALL BE AS IDENTIFIED ON PLANS AND CROSS SECTIONS. ADDITIONAL LOCATIONS SHALL BE DETERMINED BY VTRANS GEOLOGIST AND/OR ENGINEER. ALL SHOTCRETE TO BE USED ON THIS PROJECT WILL CONSIST OF DRY MIX SHOTCRETE. WORK WILL BE PAID UNDER ITEM 900.608 SPECIAL PROVISION (SHOTCRETE) AND 900.640 SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE).
2. ROCK DOWELING LOCATIONS SHALL BE AS IDENTIFIED ON PLANS AND CROSS SECTIONS. ADDITIONAL LOCATIONS SHALL BE DETERMINED BY VTRANS GEOLOGIST AND/OR ENGINEER. WORK WILL BE PAID UNDER ITEM 900.640 SPECIAL PROVISION (ROCK DOWELING) AND ITEM 900.645 SPECIAL PROVISION (ROCK DOWEL TESTING).
3. SHEAR KEY LOCATIONS SHALL BE AS IDENTIFIED ON PLANS AND CROSS SECTIONS. ADDITIONAL LOCATIONS SHALL BE DETERMINED BY VTRANS GEOLOGIST AND/OR ENGINEER. WORK WILL BE PAID UNDER ITEM 900.640 SPECIAL PROVISION (SHEAR KEYS).

REVISION	DATE	DESCRIPTION
	04-10-2017	ADDED NOTE

PROJECT NAME: COVENTRY	PLOT DATE: 10-APR-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c114fr.m.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 9 OF 29
DESIGNED BY: S. ZWICK	
PROJECT NOTES SHEET	

CLEARING AND GRUBBING (ACRE)  
 STA 174+50 TO STA 178+18 LT

TEMPORARY TRAFFIC BARRIER  
 STA 174+50 RT TO STA 179+50 RT

SPECIAL PROVISION (SHOTCRETE)  
 STA 175+34 LT TO STA 175+44 LT  
 STA 175+50 LT TO STA 175+90 LT  
 STA 176+10 LT TO STA 176+60 LT

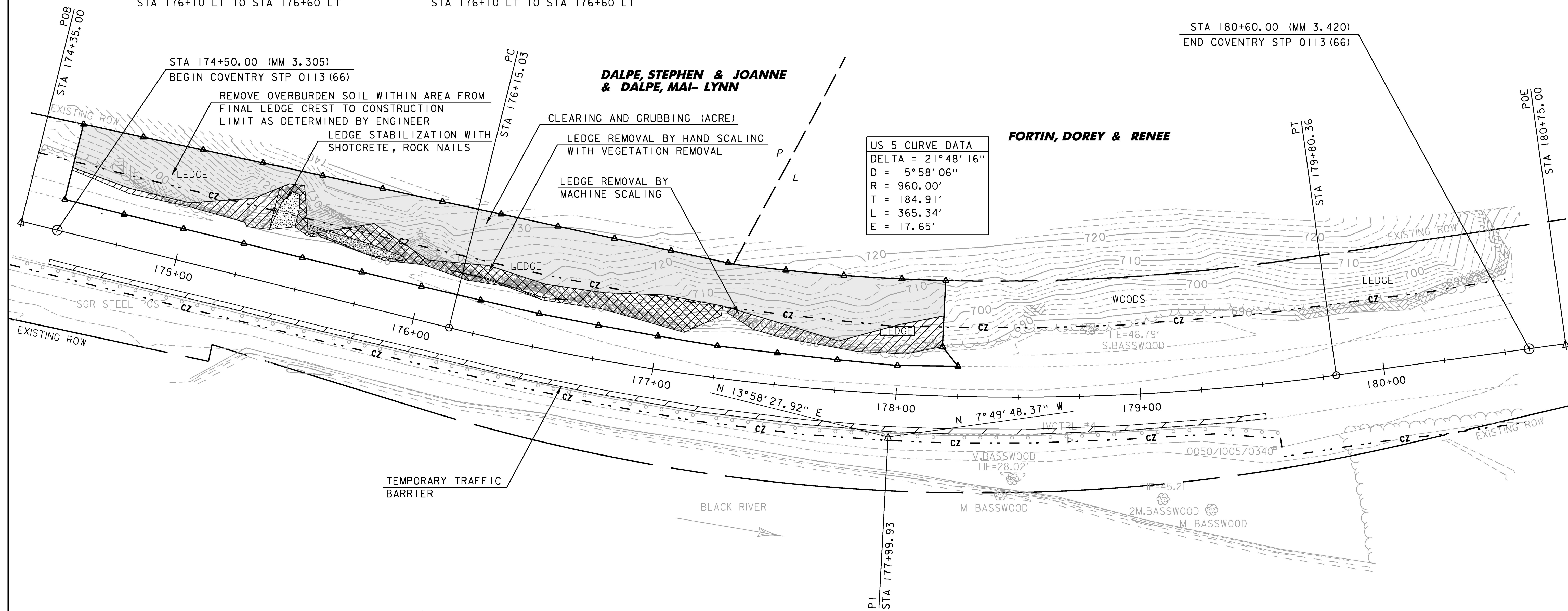
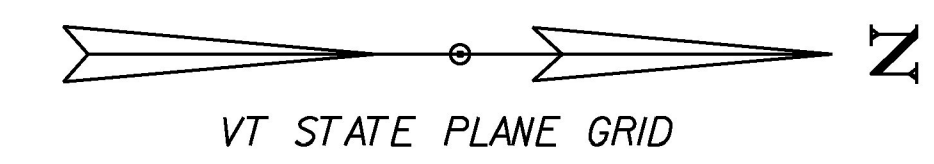
SPECIAL PROVISION (MACHINE SCALING)  
 STA 174+50 LT TO STA 175+34 LT  
 STA 177+28 LT TO STA 178+18 LT

SPECIAL PROVISION (ROCK DOWELS)  
 STA 175+50 LT TO STA 175+90 LT  
 STA 176+10 LT TO STA 177+00 LT

SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE)  
 STA 175+34 LT TO STA 175+44 LT  
 STA 175+50 LT TO STA 175+90 LT  
 STA 176+10 LT TO STA 176+60 LT

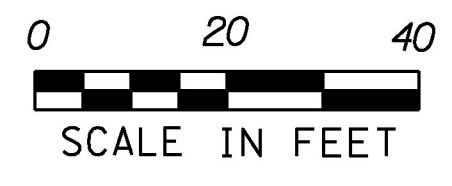
SPECIAL PROVISION (HAND SCALING WITH VEGETATION REMOVAL)  
 STA 175+35 LT TO STA 177+28 LT

SPECIAL PROVISION (SHEAR KEYS)  
 STA 175+45 LT TO STA 175+50 LT  
 STA 176+25 LT  
 STA 176+73 LT TO STA 176+75 LT



US 5 CURVE DATA	
DELTA =	21°48'16"
D =	5°58'06"
R =	960.00'
T =	184.91'
L =	365.34'
E =	17.65'

LEGEND	
HAND SCALING AND VEGETATION REMOVAL	
MACHINE SCALING	
CLEARING AND GRUBBING WITH OVERBURDEN	
LEDGE STABILIZATION	
TEMPORARY TRAFFIC BARRIER	



PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME: di0c114bdr.dgn	PLOT DATE: 15-FEB-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
PLAN SHEET	SHEET 10 OF 29

## **EPSC PLAN NARRATIVE**

### **1.1 PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE REMOVAL OF EXPOSED LEDGE AT IDENTIFIED LOCATIONS FOR SAFETY ENHANCEMENTS. THE LEDGE IS LOCATED IN THE TOWN OF COVENTRY, ALONG THE SOUTH BOUND LANE OF US ROUTE 5, APPROXIMATELY BETWEEN MM 3.305 AND MM 3.420.

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 0.289 ACRES, INCLUDING LEDGE FACE SURFACE AREAS. 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 MODERATELY MOUNTAINOUS, AND MOSTLY WOODED. THERE ARE NO SURROUNDING COMMERCIAL OR RESIDENTIAL BUILDINGS.

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

THE BLACK RIVER IS THE SOLE RECEIVING WATER WITHIN THE PROJECT LIMITS. THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF MODERATELY STEEP SLOPES. DUE TO THE NATURE OF THE SURROUNDING TERRAIN, THE PROJECT SITE COULD RECEIVE RUNOFF FROM NEARBY SLOPES.

#### **1.2.3 VEGETATION**

THE VEGETATION IN THE PROJECT AREA CONSISTS OF HARDWOOD AND SOFTWOOD TREES ALONG WITH UNDERGROWTH. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE PLANNED REMOVAL OF LEDGE. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEEDING PRACTICES.

#### **1.2.4 SOILS**

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE VERSHIRE-GLOVER COMPLEX, ROCKY, 35% TO 60% SLOPES, "K FACTOR" = 0.37. THE SOIL IS CONSIDERED HIGHLY 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: POSSIBLY NORTHERN LONG-EARED BAT  
WATER RESOURCE: BLACK RIVER  
WETLANDS: NO

### **1.3 RISK EVALUATION**

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, 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. THE 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.

NO ADDITIONAL MEASURES LIMITING DISTURBANCE AREA ARE ANTICIPATED FOR THIS PROJECT AS DESIGNED.

#### **1.4.3 SITE ENTRANCE/EXIT STABILIZATION**

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

THE USE OF STABILIZED CONSTRUCTION ENTRANCES IS NOT ANTICIPATED FOR THIS PROJECT AS DESIGNED.

#### **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.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN OR AS NECESSARY, PRIMARILY BETWEEN THE GUARDRAIL AND THE BLACK RIVER TO IMPEDE RUNOFF MOVING TO THE RIVER.

#### **1.4.5 DIVERT UPLAND RUNOFF**

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

LARGE PORTIONS OF THE PROJECT AREA CONSIST OF STEEP BEDROCK OR LEDGE. IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

#### **1.4.6 SLOW DOWN CHANNELIZED RUNOFF**

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

IT IS NOT ANTICIPATED THAT STONE CHECK DAMS WILL BE REQUIRED ON THIS SITE.

#### **1.4.7 CONSTRUCT PERMANENT CONTROLS**

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

THE PROJECT DOES NOT REQUIRE ANY PERMANENT STORMWATER TREATMENT DEVICES.

#### **1.4.8 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.

BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

#### **1.4.9 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. WINTER CONSTRUCTION IS NOT ANTICIPATED; HOWEVER, IF WORK CONTINUES INTO WINTER ACTIVITIES WILL FOLLOW THE LOW RISK SITE HANDBOOK.

WINTER CONSTRUCTION IS NOT ANTICIPATED FOR THIS PROJECT.

#### **1.4.10 STABILIZE SOIL AT FINAL GRADE**

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

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

#### **1.4.11 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.

NOT APPLICABLE. DE-WATERING ACTIVITIES ARE NOT ANTICIPATED FOR THIS PROJECT.

#### **1.4.12 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.

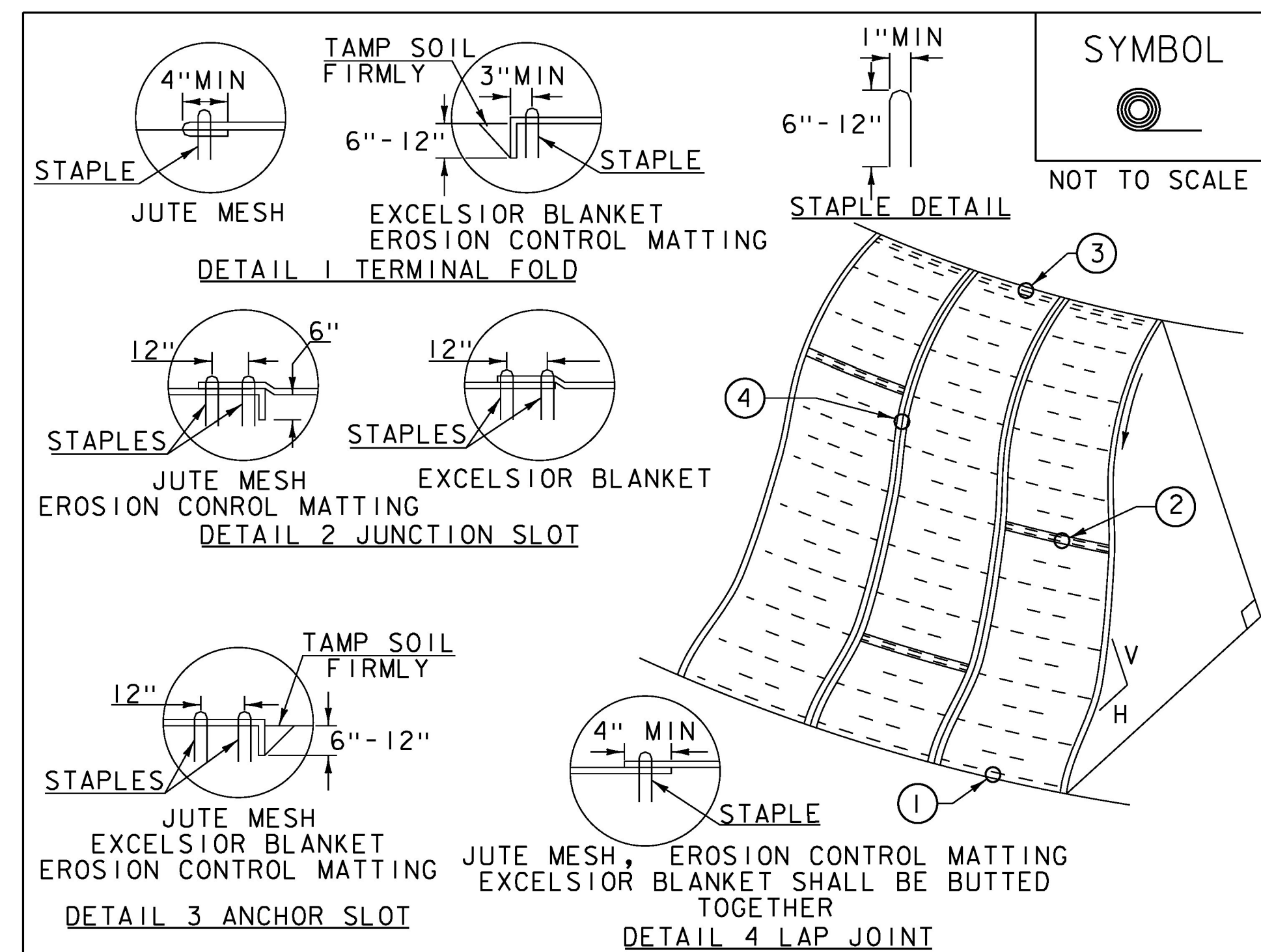
#### **1.5.1 CONSTRUCTION SEQUENCE**

#### **1.5.2 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.

#### **1.5.3 UPDATES**

PROJECT NAME: COVENTRY	
PROJECT NUMBER: STP 0113(66)	
FILE NAME: d:\0c114\erode+.dgn	PLOT DATE: 15-FEB-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
EPSC NARRATIVE SHEET	SHEET 11 OF 29



CONSTRUCTION SPECIFICATIONS

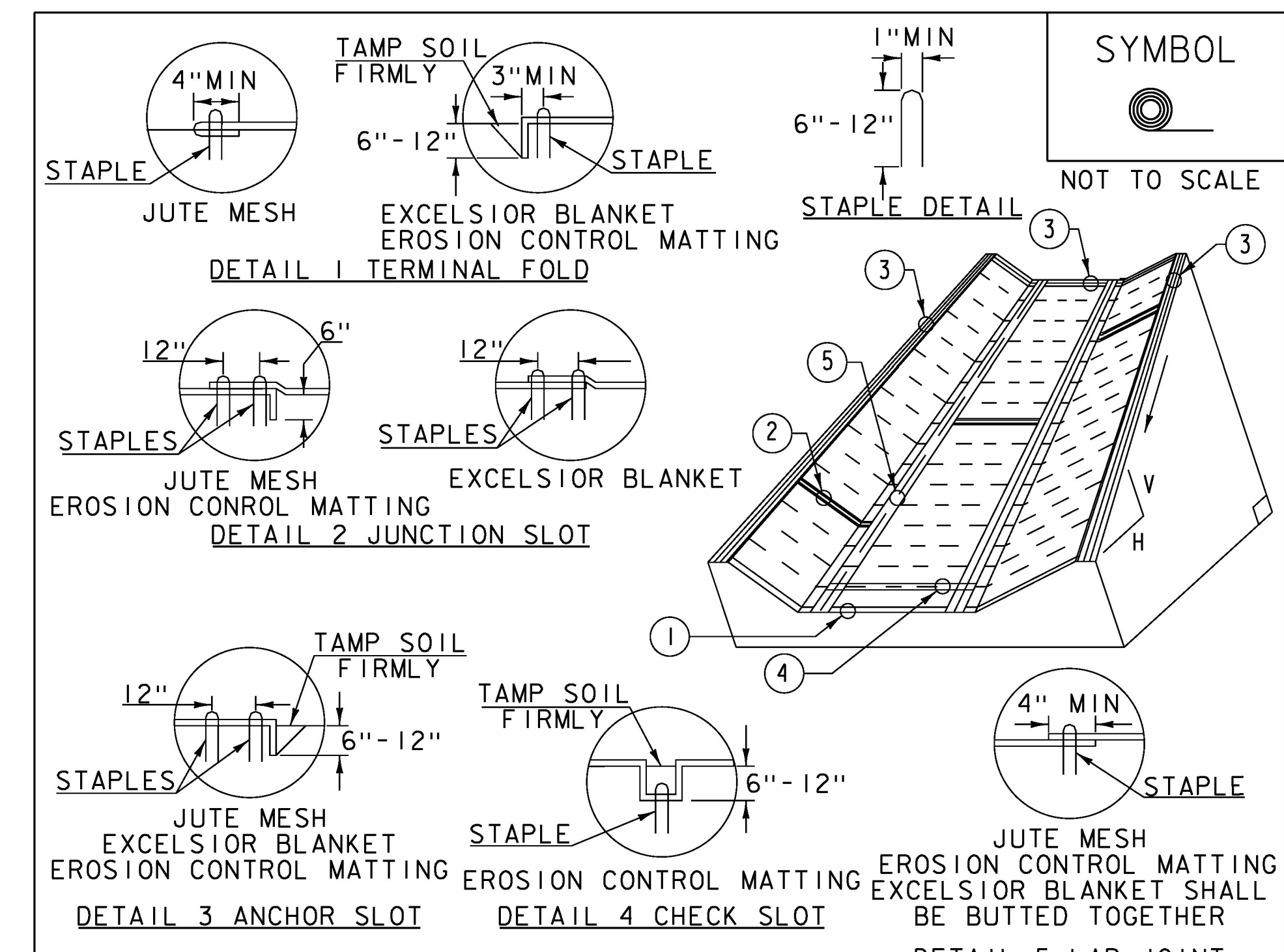
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' 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) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS		
APRIL 16, 2007	JMF	
JANUARY 13, 2009	WHF	



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' 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.

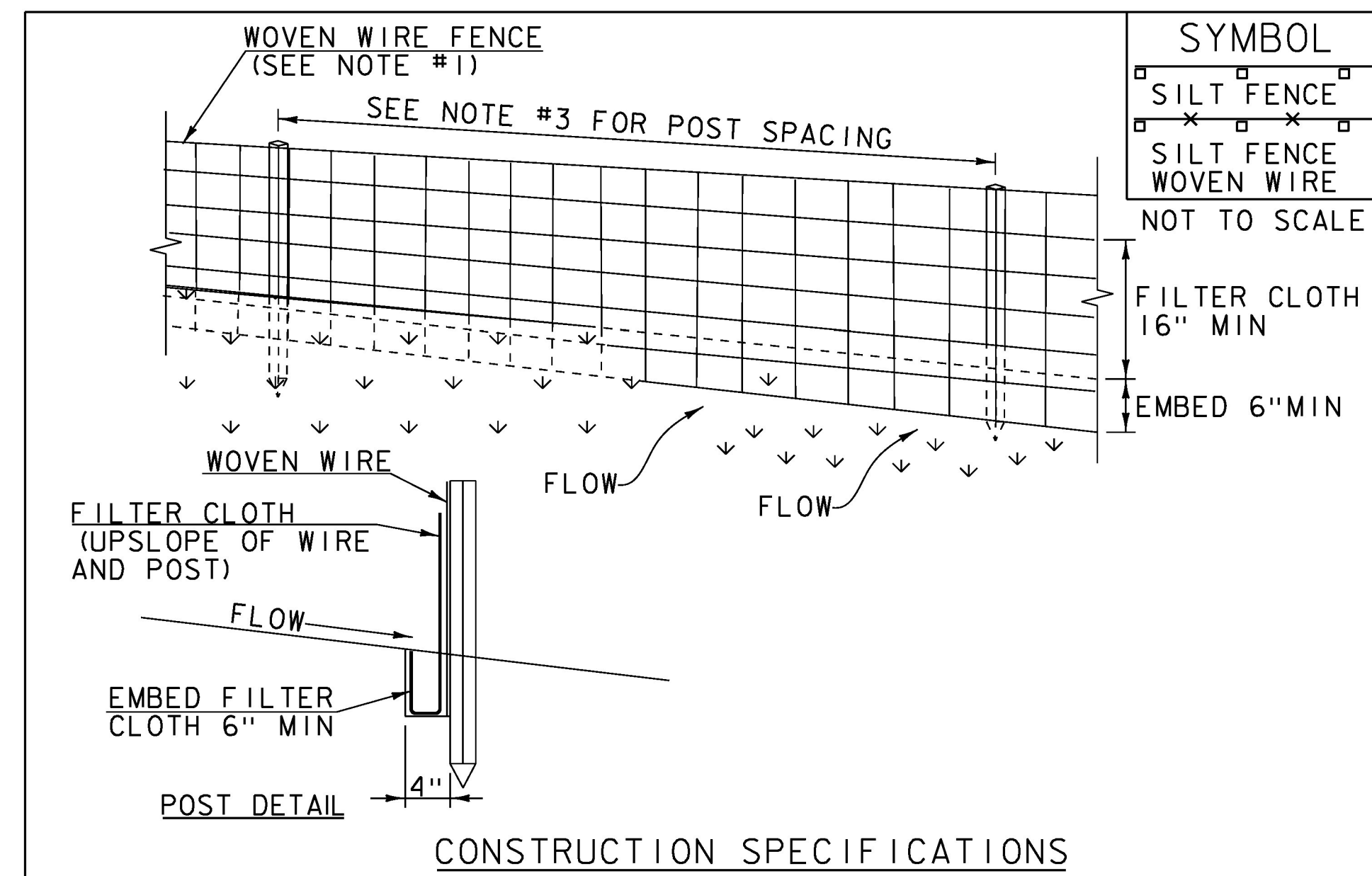
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

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) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

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

PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c114ero.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 12 OF 29
DESIGNED BY: VTRANS	
EPSC DETAILS SHEET 1	



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 649.5) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

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**

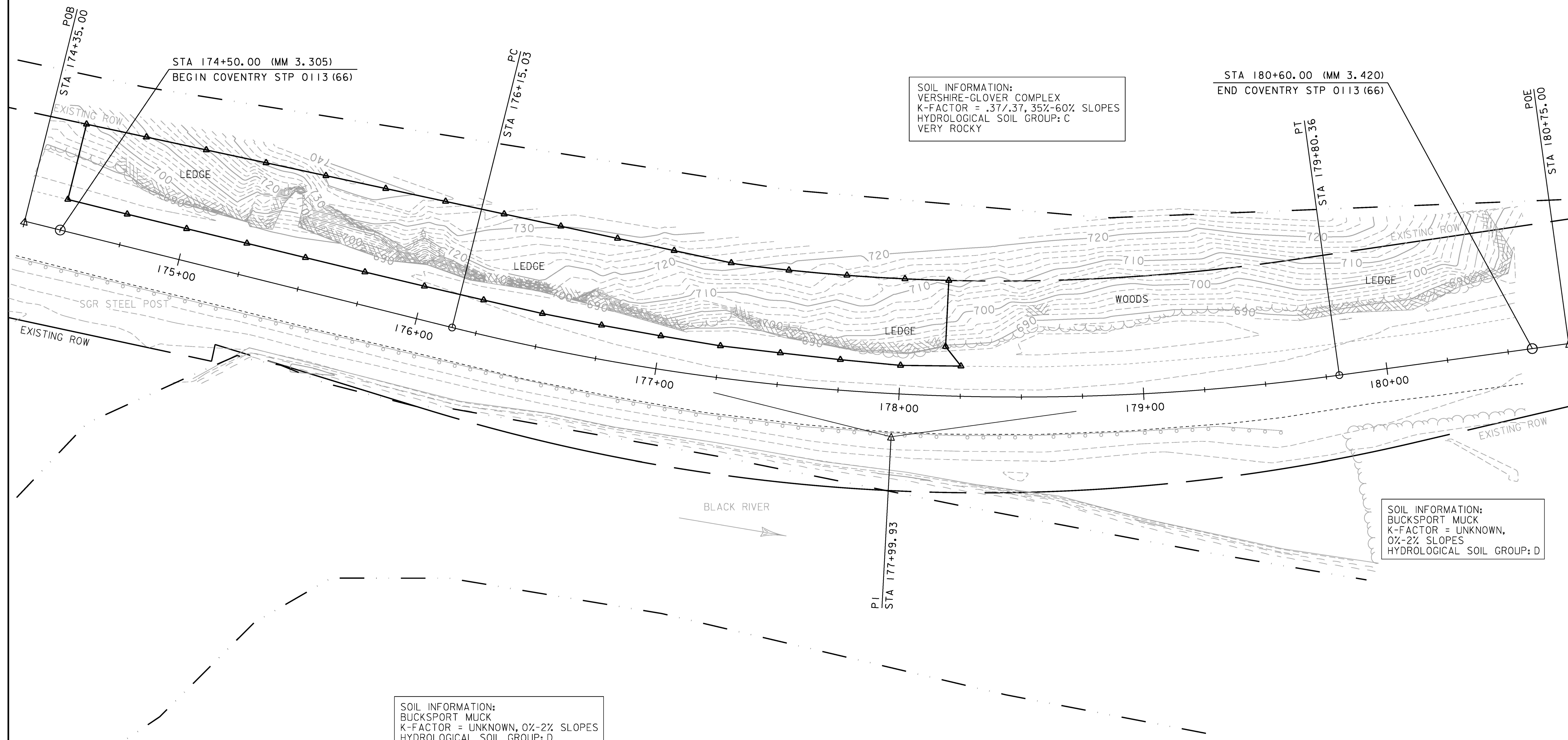
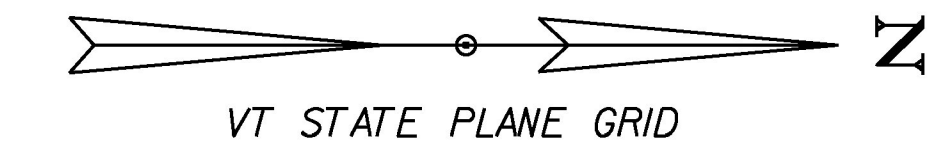
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.5)

REVISIONS	
JANUARY 12, 2015	WHF

PROJECT NAME: COVENTRY  
PROJECT NUMBER: STP 0113(66)

FILE NAME: d:\0c114ero.dgn  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: VTRANS  
EPSC DETAILS SHEET 2

PLOT DATE: 15-FEB-2017  
DRAWN BY: S. ZWICK  
CHECKED BY: C. LEACH  
SHEET 13 OF 29

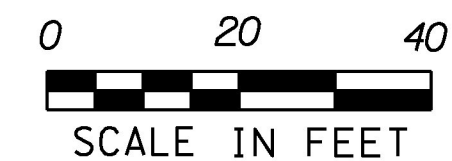


SOIL INFORMATION:  
 VERSHIRE-GLOVER COMPLEX  
 K-FACTOR = .37/.37, 35%-60% SLOPES  
 HYDROLOGICAL SOIL GROUP: C  
 VERY ROCKY

STA 180+60.00 (MM 3.420)  
 END COVENTRY STP 0113 (66)

SOIL INFORMATION:  
 BUCKSPORT MUCK  
 K-FACTOR = UNKNOWN, 0%-2% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

SOIL INFORMATION:  
 BUCKSPORT MUCK  
 K-FACTOR = UNKNOWN, 0%-2% SLOPES  
 HYDROLOGICAL SOIL GROUP: D



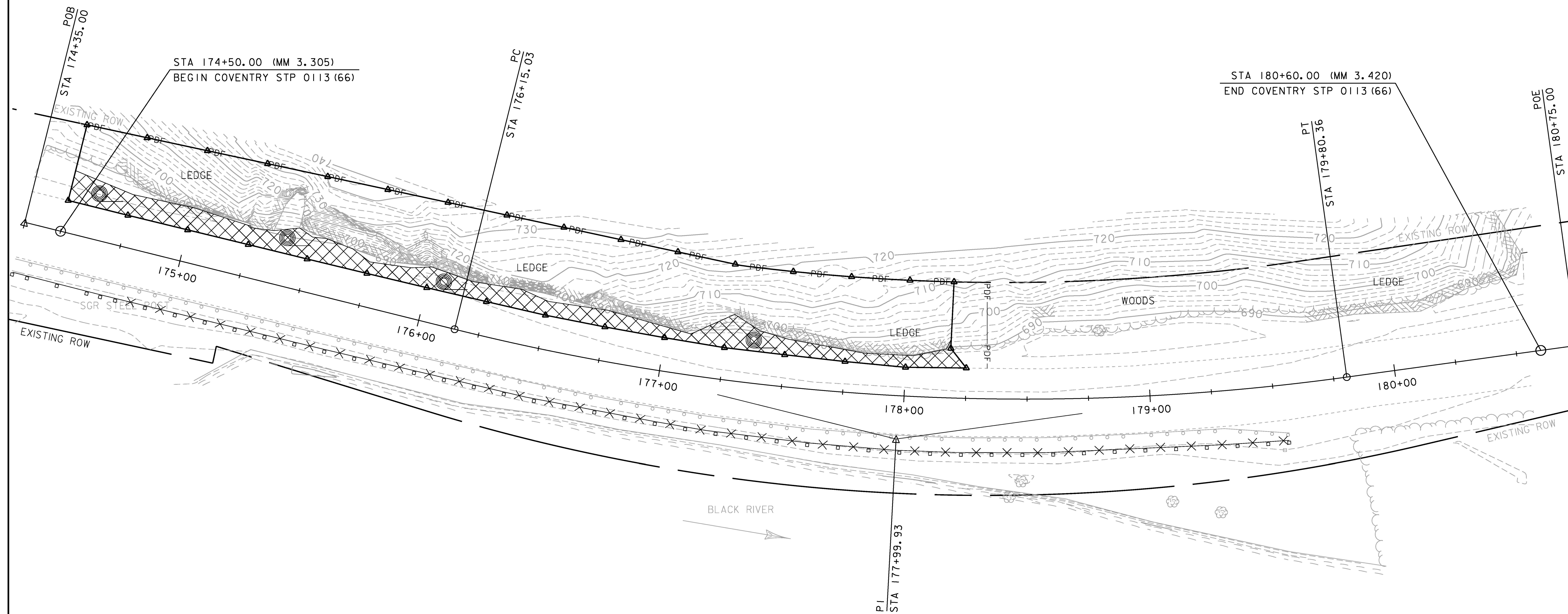
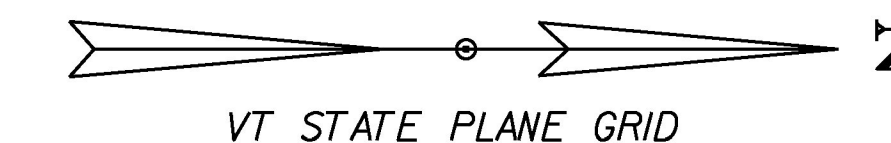
PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c14\ero.dgn	CHECKED BY: C. LEACH
DESIGNED BY: S. ZWICK	SHEET 14 OF 29
EPSC EXISTING CONDITIONS PLAN SHEET	

TEMPORARY EROSION MATTING  
 STA. 174+50 LT TO STA. 178+25 LT

GEOTEXTILE FOR SILT FENCE  
 STA. 174+35 RT TO STA. 174+75 RT

PROJECT DEMARCATION FENCE  
 STA. 174+50 LT TO STA. 178+35 LT

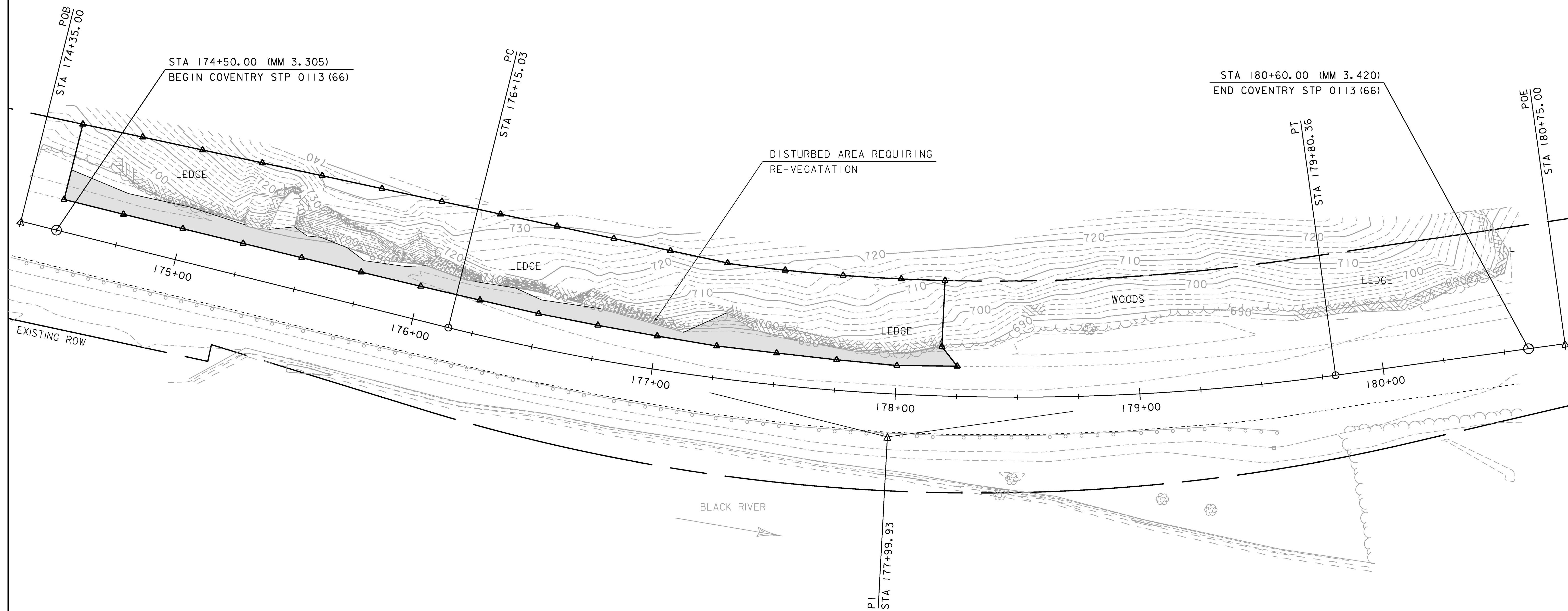
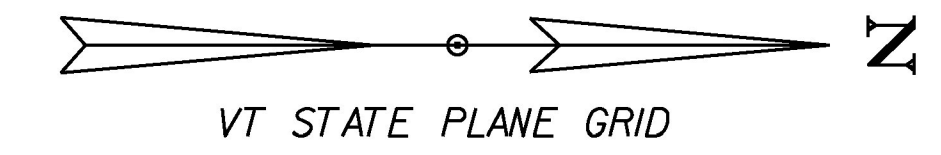
GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED  
 STA. 174+75 RT TO STA. 179+55 RT



LEGEND	
TEMPORARY EROSION MATTING	
PROJECT DEMARCATION FENCE	
SILT FENCE	
SILT FENCE, WOVEN WIRE	



PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME:	d:\0114ero.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
EPSC CONSTRUCTION PLAN SHEET	
PLOT DATE:	15-FEB-2017
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	15 OF 29

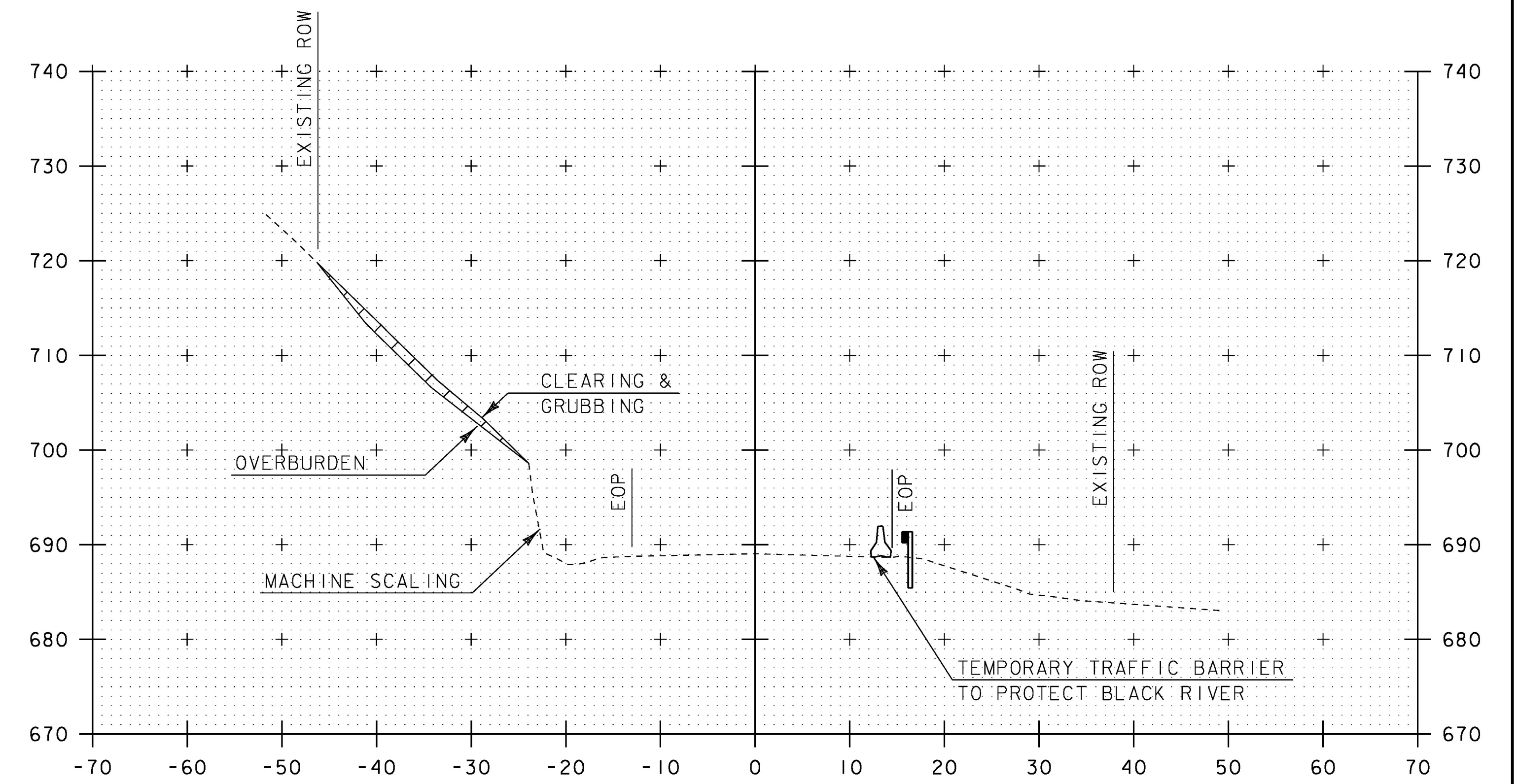


**LEGEND**

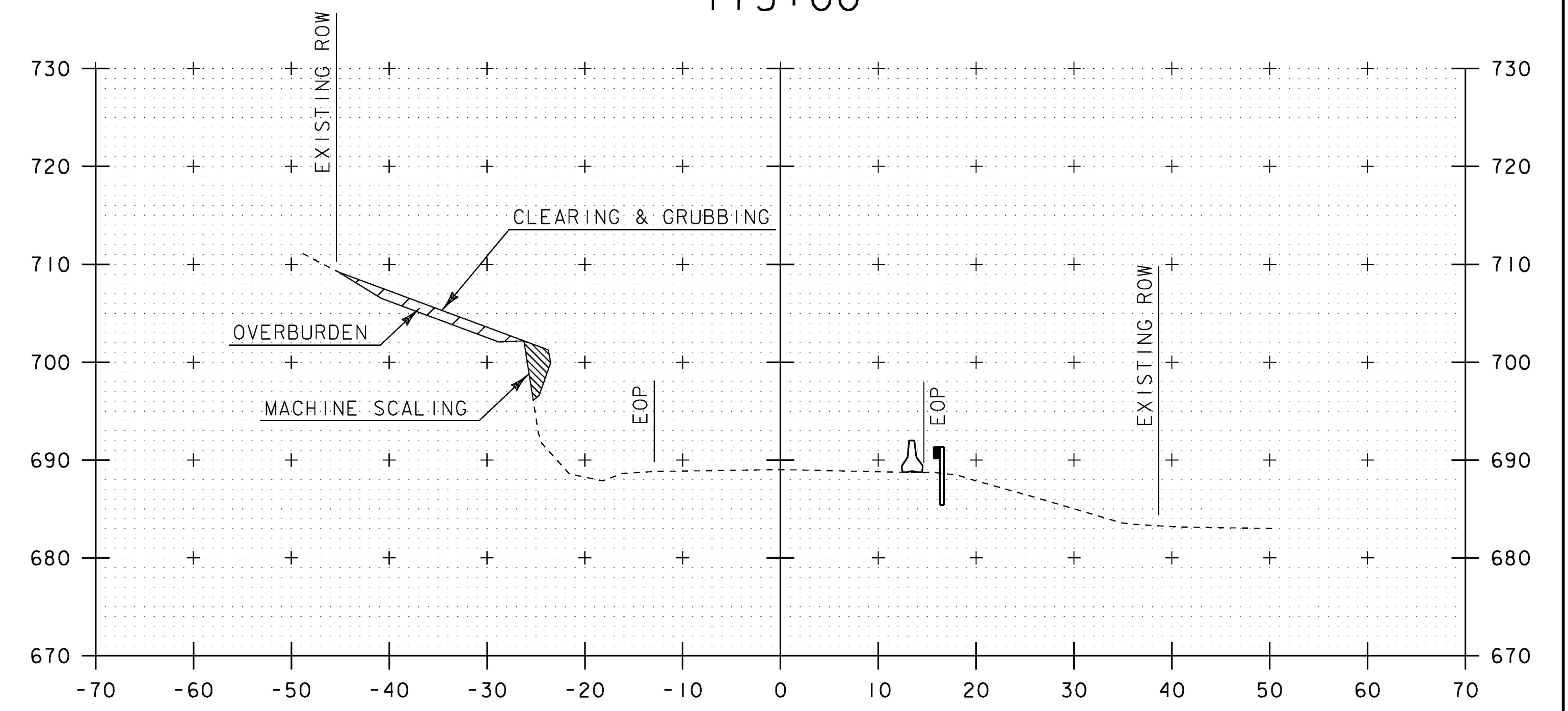
DISTURBED AREA  
REQUIRING RE-VEGETATION



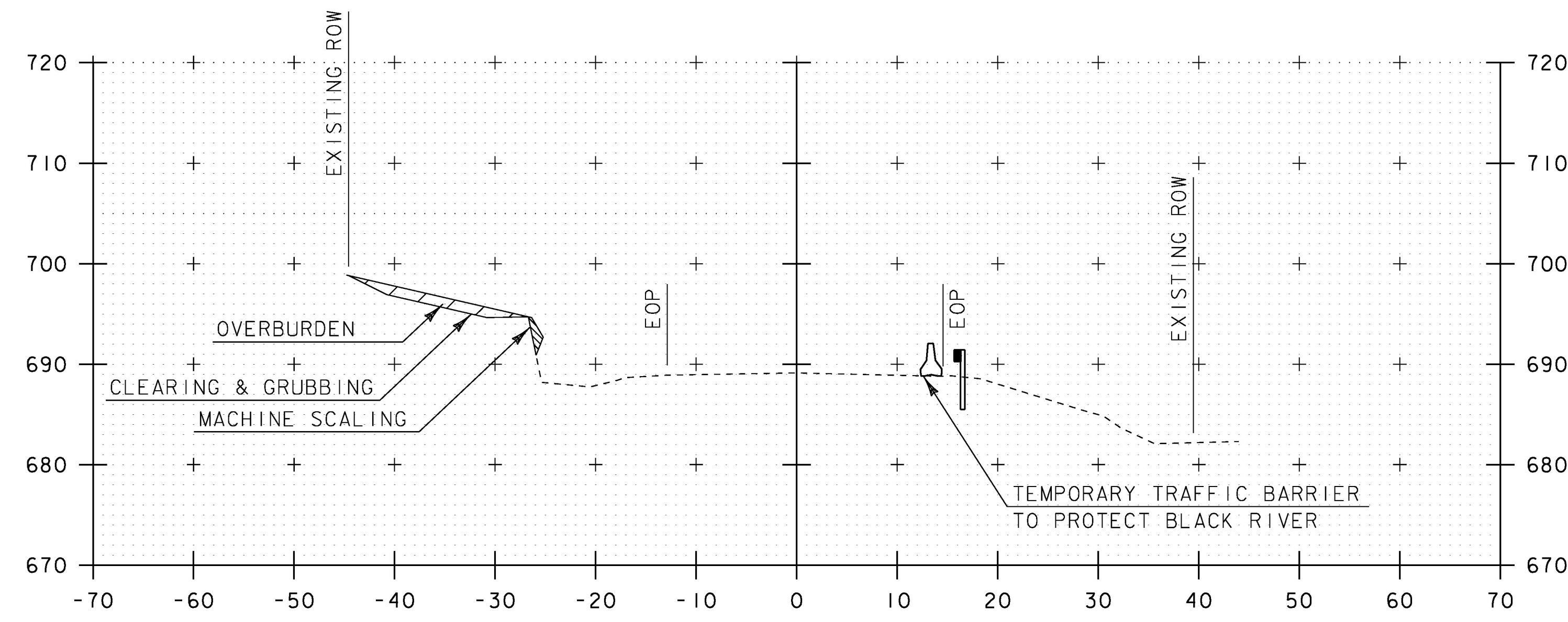
PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c14\ero.dgn	CHECKED BY: C. LEACH
DESIGNED BY: S. ZWICK	SHEET 16 OF 29
EPSC FINAL CONDITIONS PLAN SHEET	



175+00



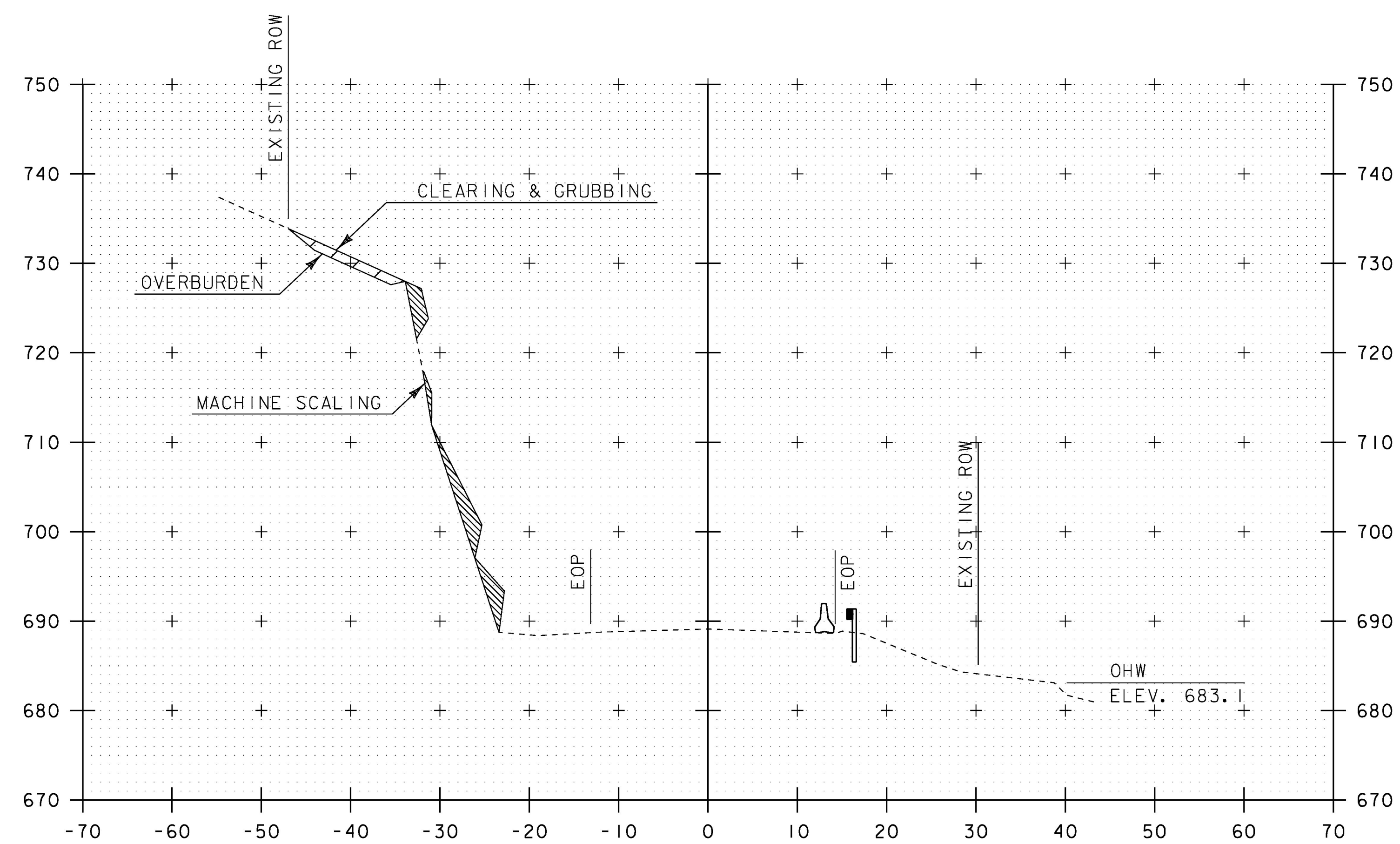
174+75



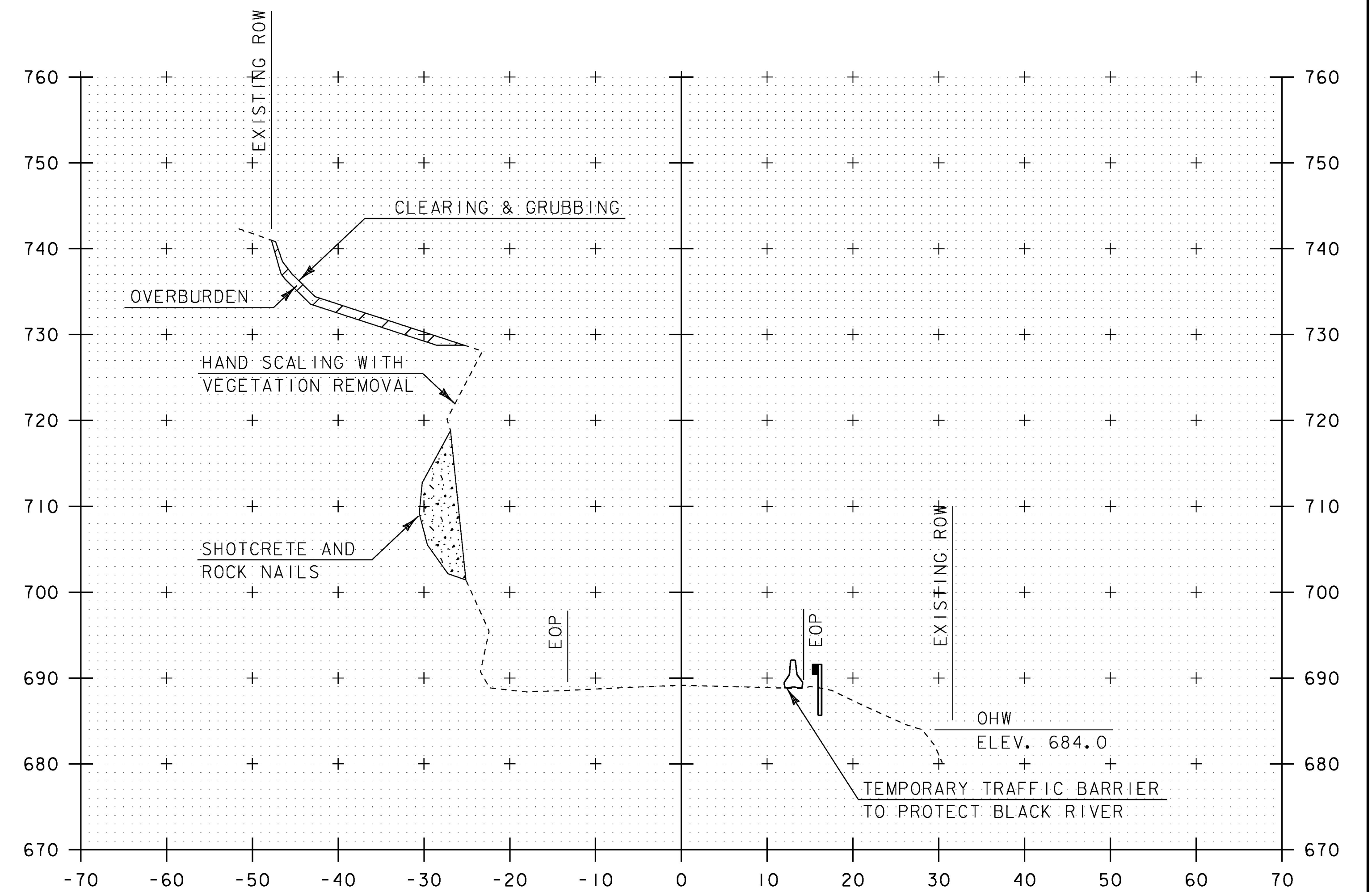
174+50  
BEGIN PROJECT

STA. 174+50 TO STA. 175+00

PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d10c14xsc.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 17 OF 29
DESIGNED BY: S. ZWICK	
CROSS SECTION SHEET 1	



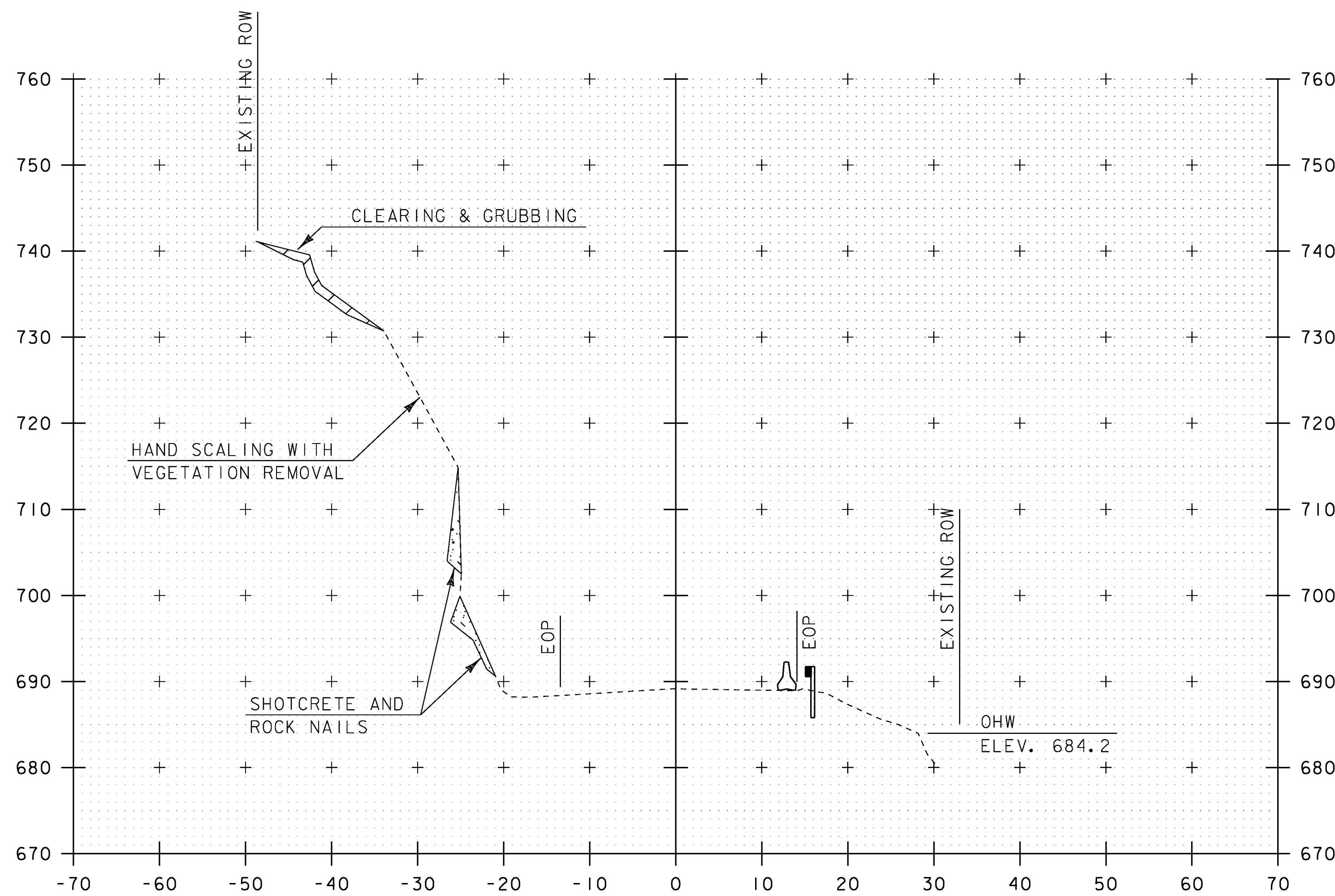
175+25



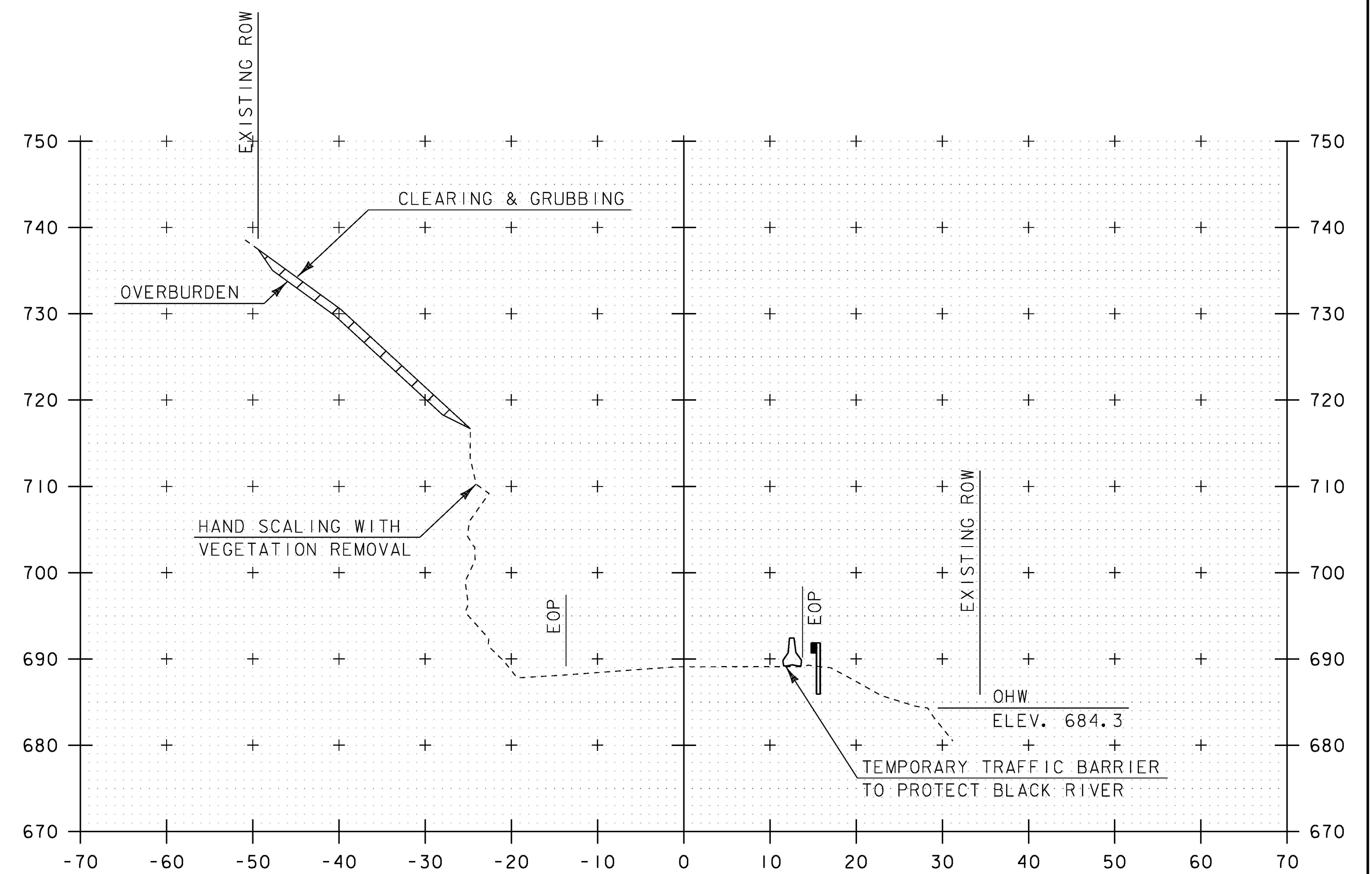
175+50

STA. 175+25 TO STA. 175+50

PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME:	d:\0c114\sc.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
CROSS SECTION SHEET 2	
PLOT DATE:	15-FEB-2017
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	18 OF 29



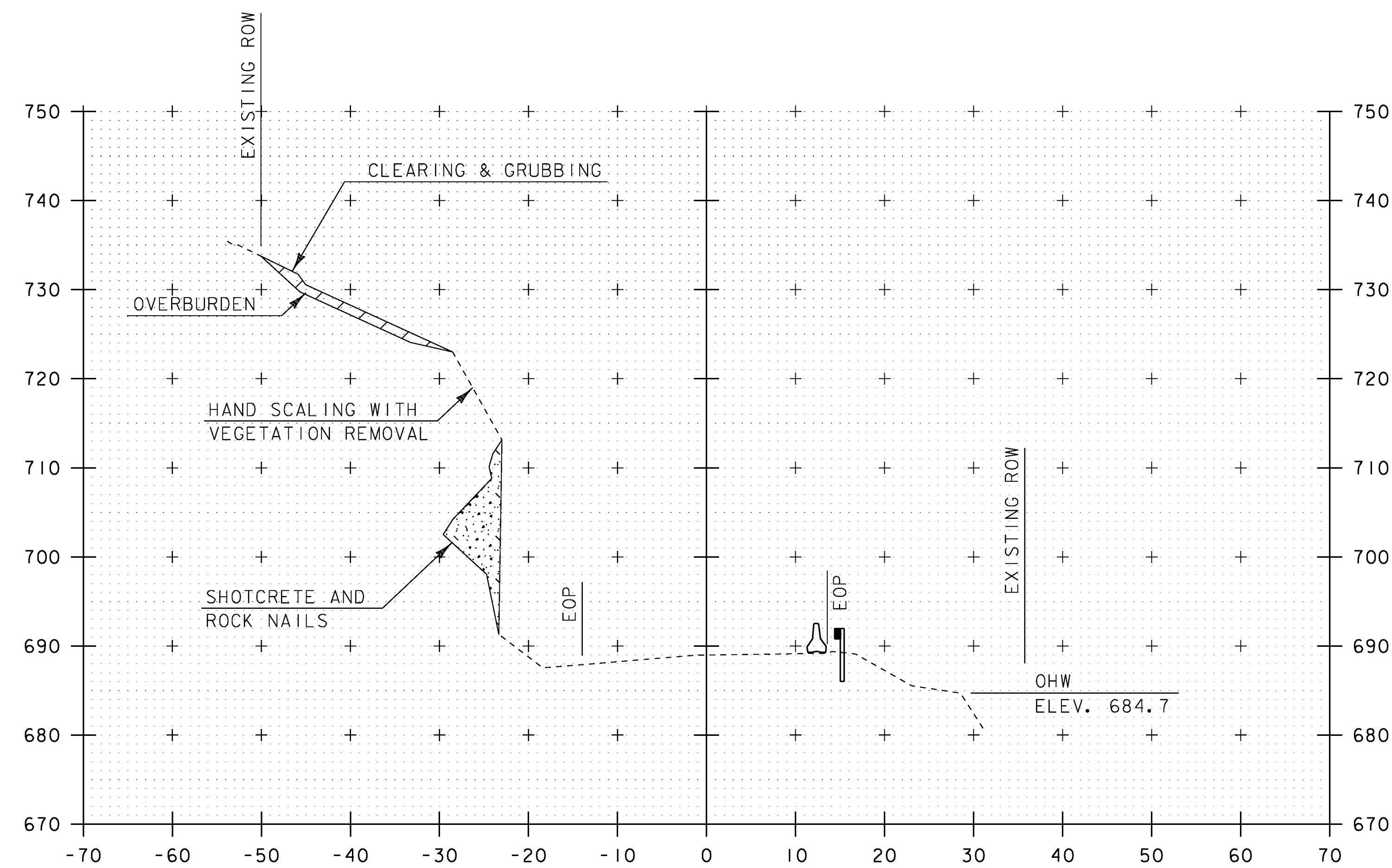
175+75



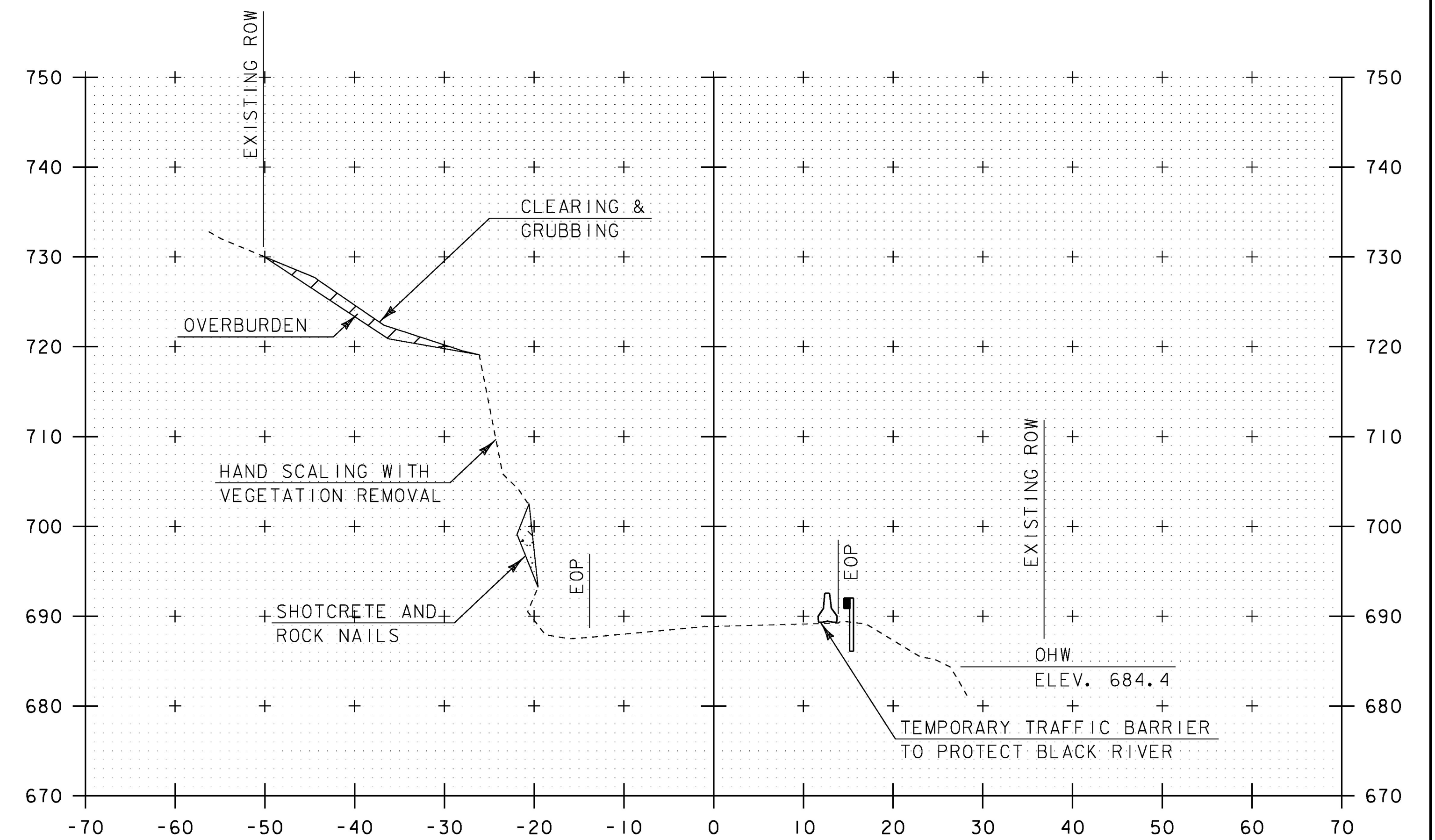
176+00

STA. 175+75 TO STA. 176+00

PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME:	d:\0c114\sc.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
CROSS SECTION SHEET 3	
PLOT DATE:	15-FEB-2017
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	19 OF 29



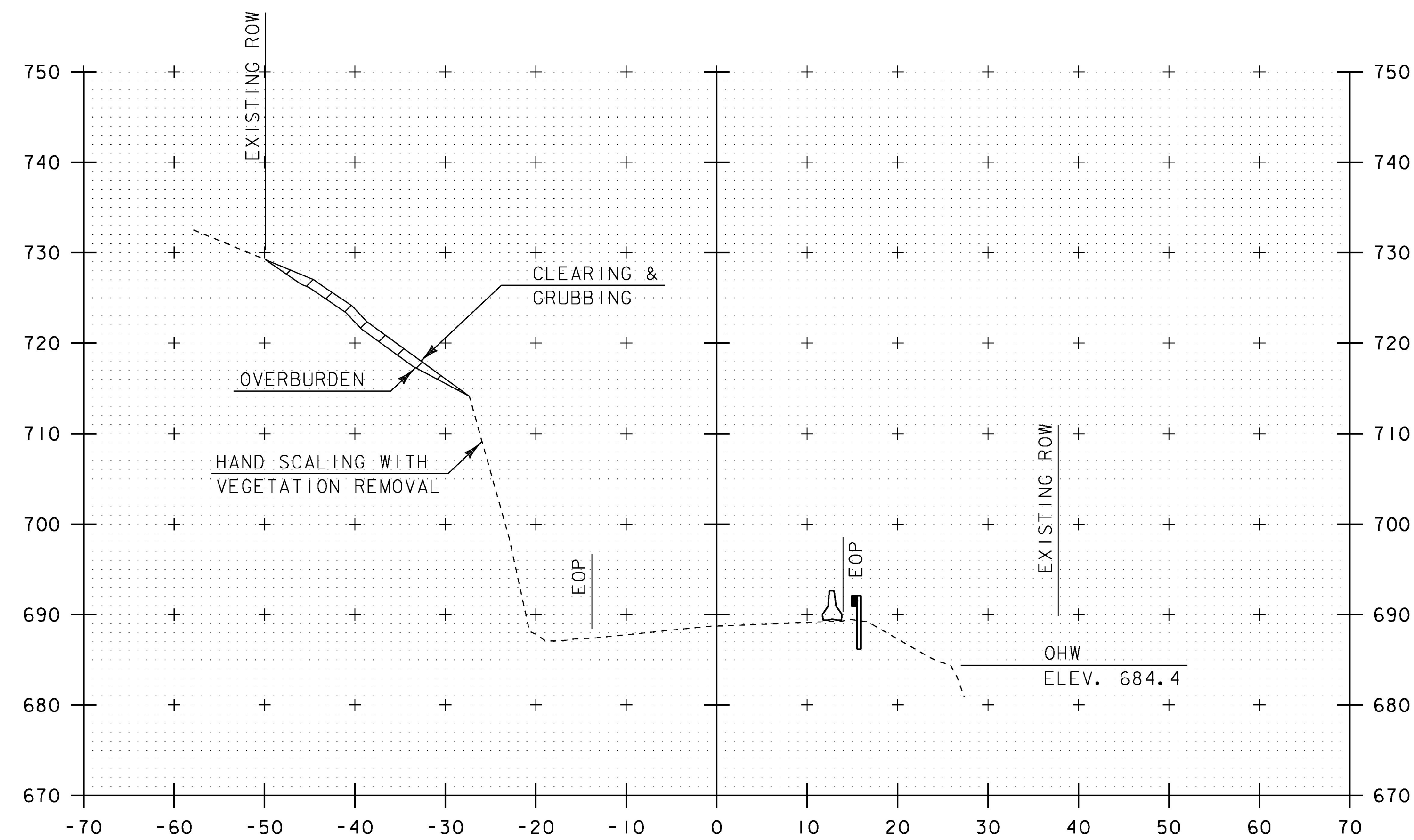
176+25



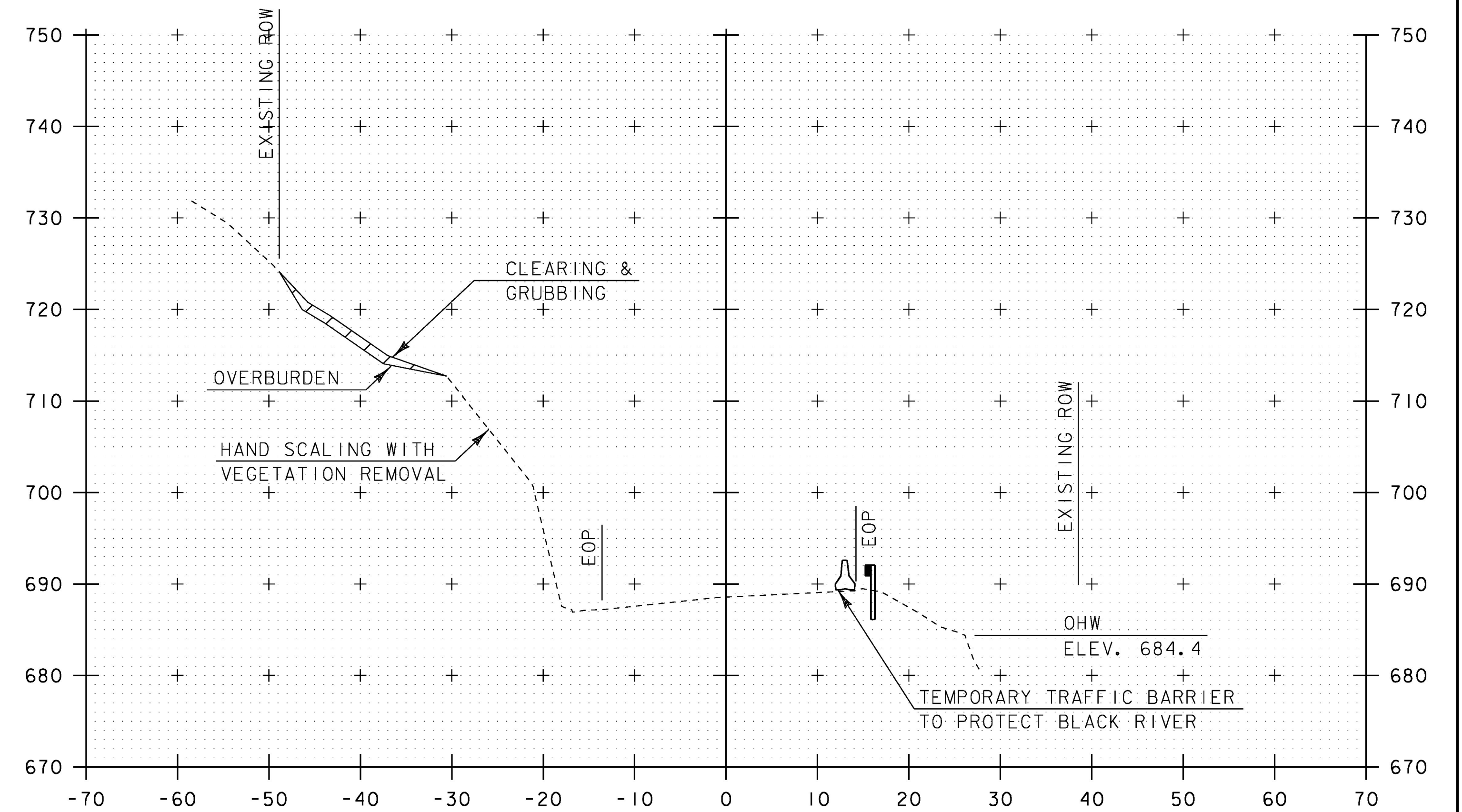
176+50

STA. 176+25 TO STA. 176+50

PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME: d:\0c114\sc.dgn	PLOT DATE: 15-FEB-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
CROSS SECTION SHEET 4	SHEET 20 OF 29



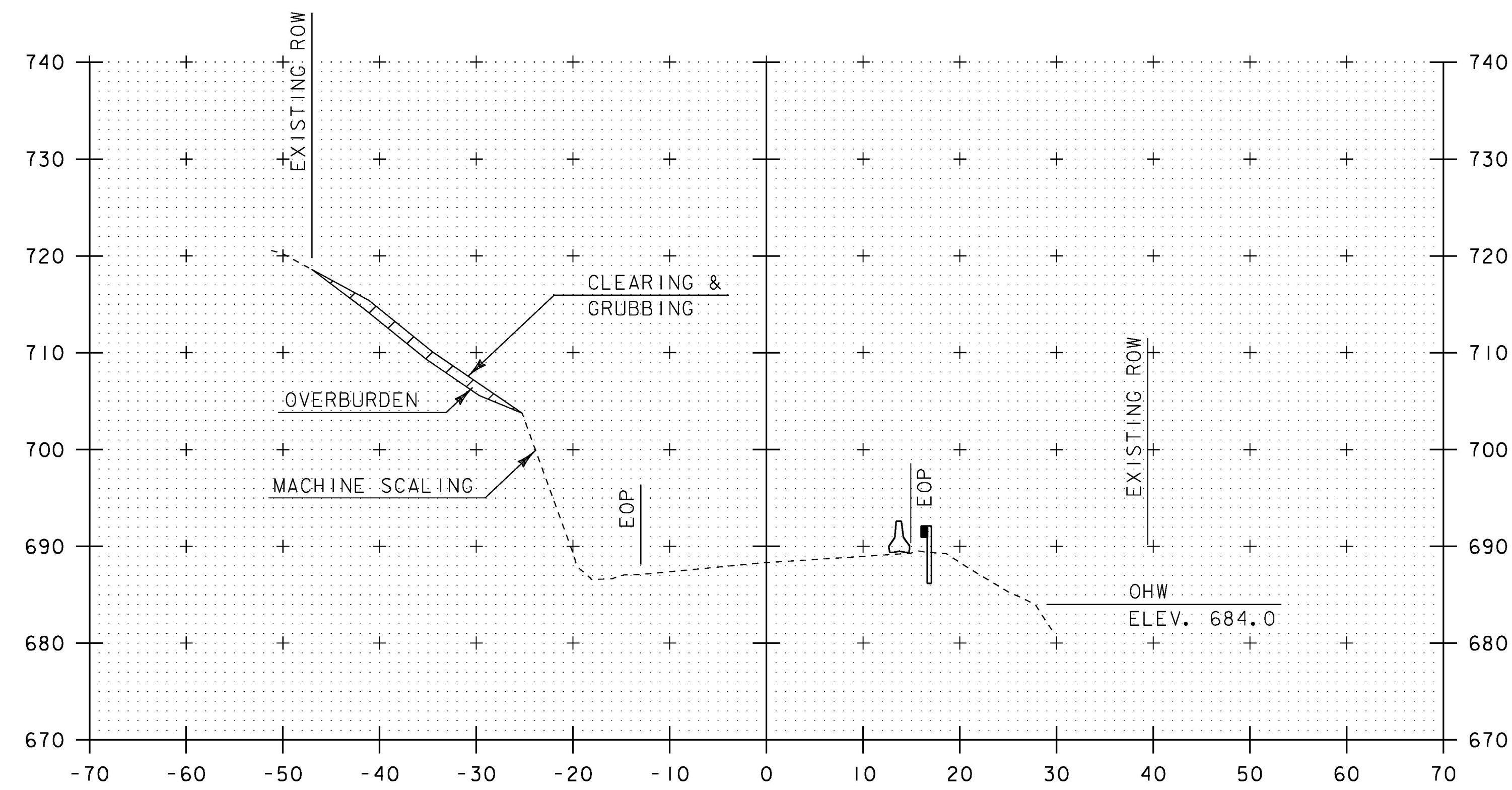
176+75



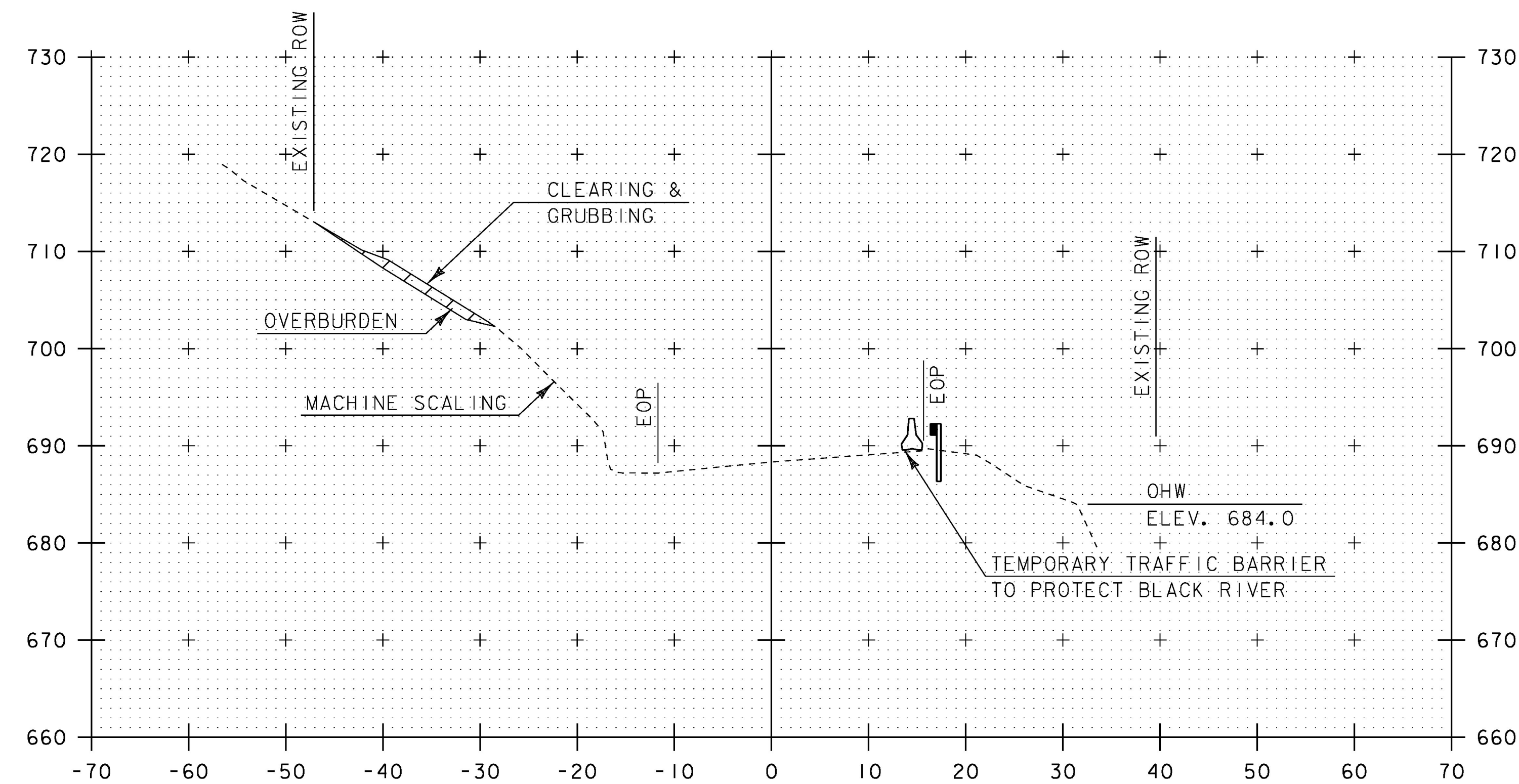
177+00

STA. 176+75 TO STA. 177+00

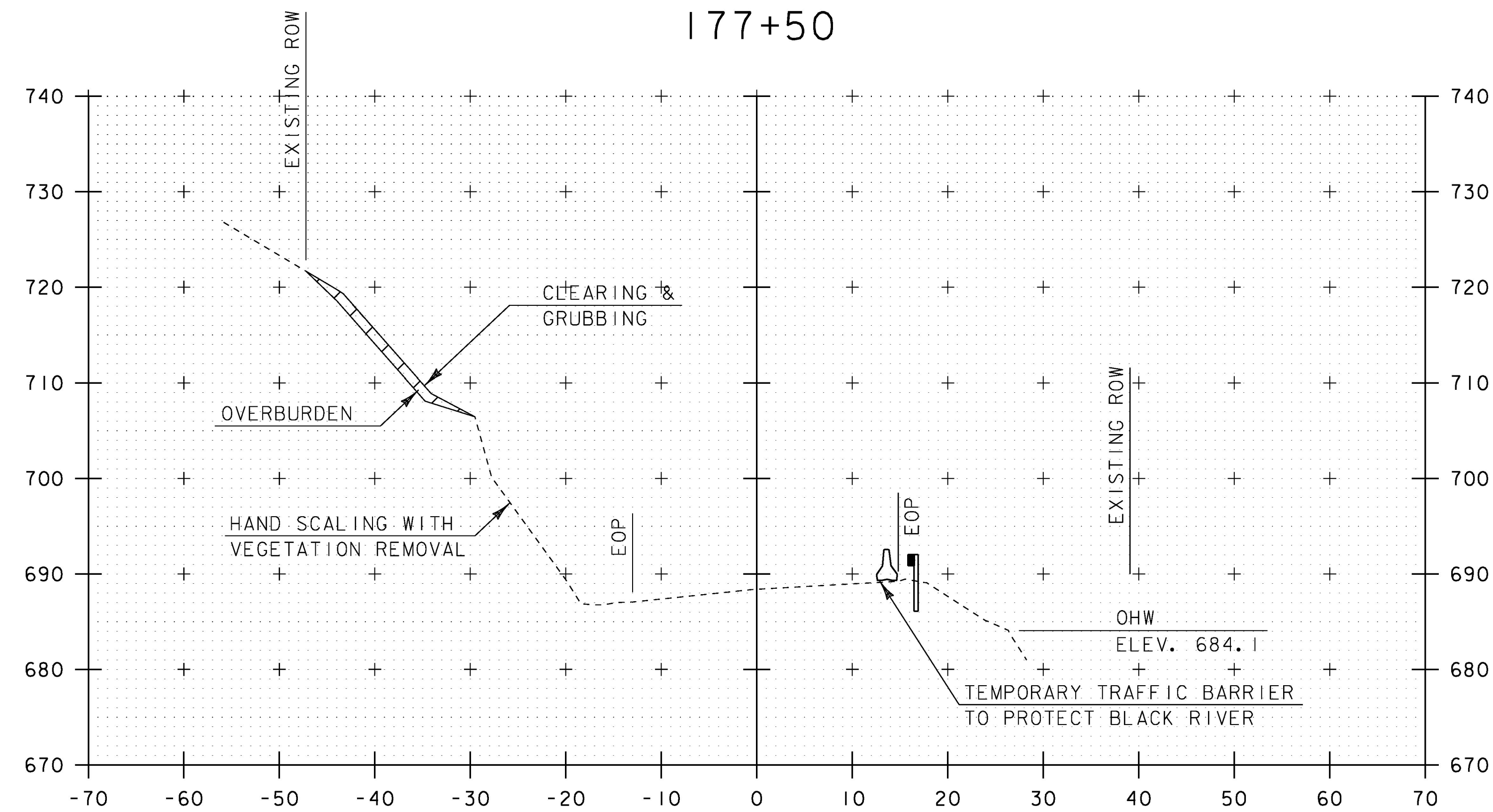
PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d10c114xsc.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 21 OF 29
DESIGNED BY: S. ZWICK	
CROSS SECTION SHEET 5	



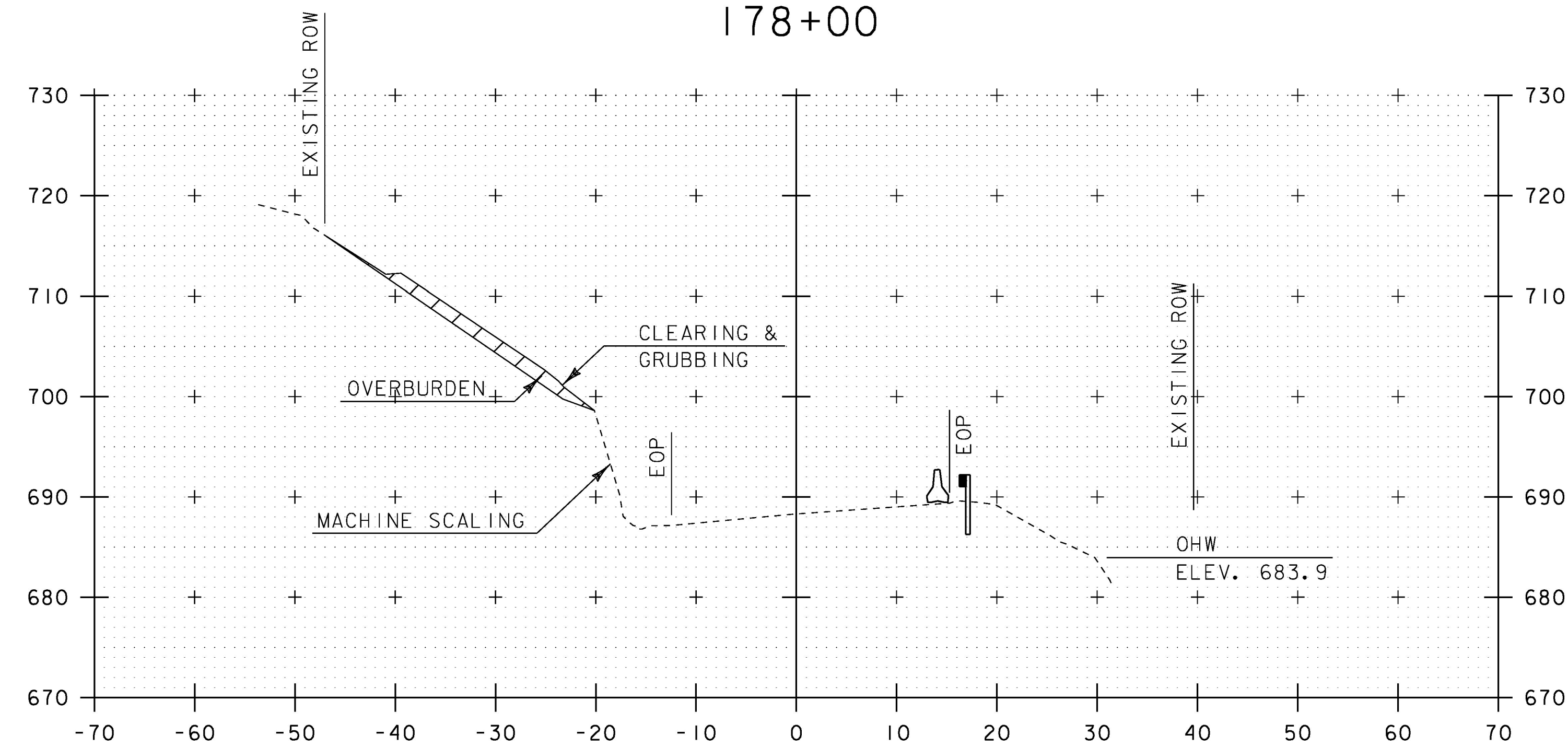
177+50



178+00



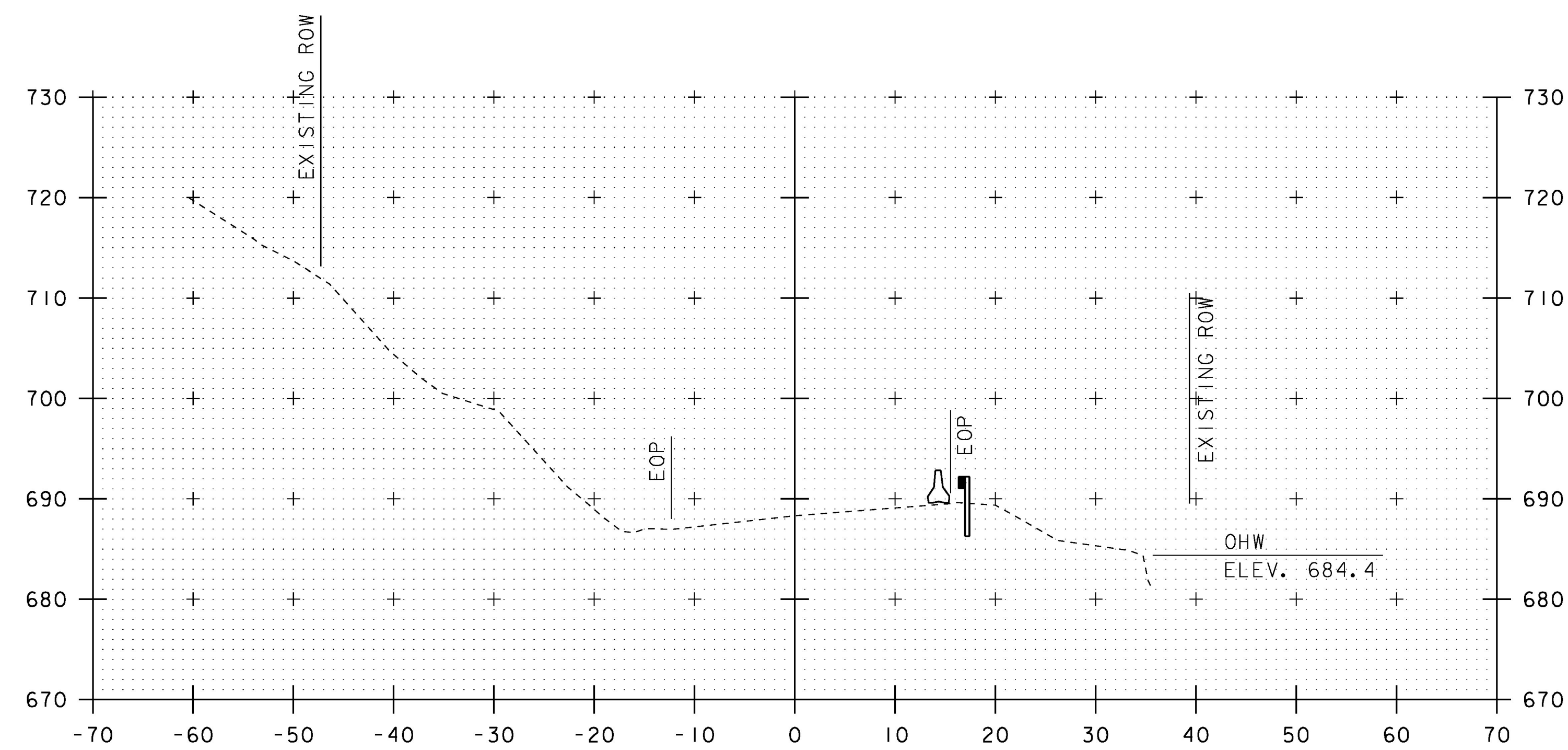
177+25



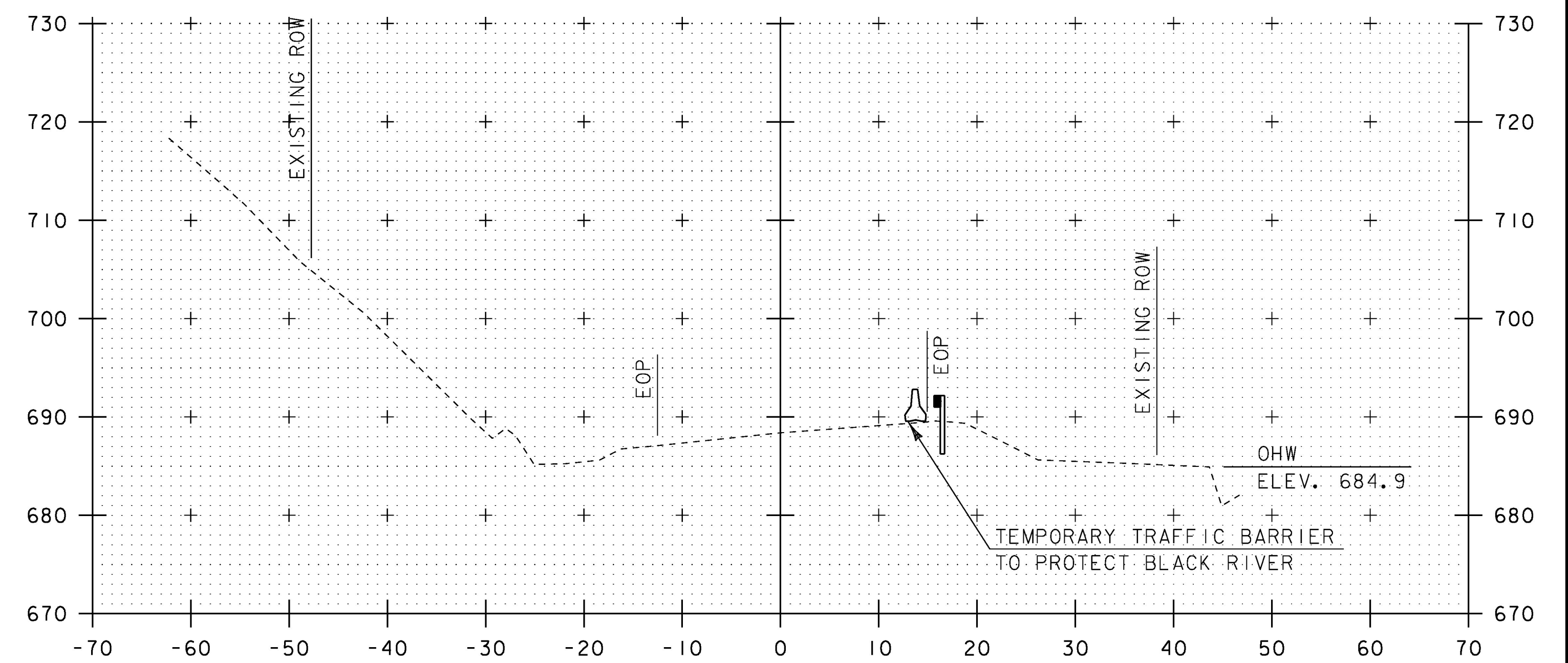
177+75

STA. 177+25 TO STA. 178+00

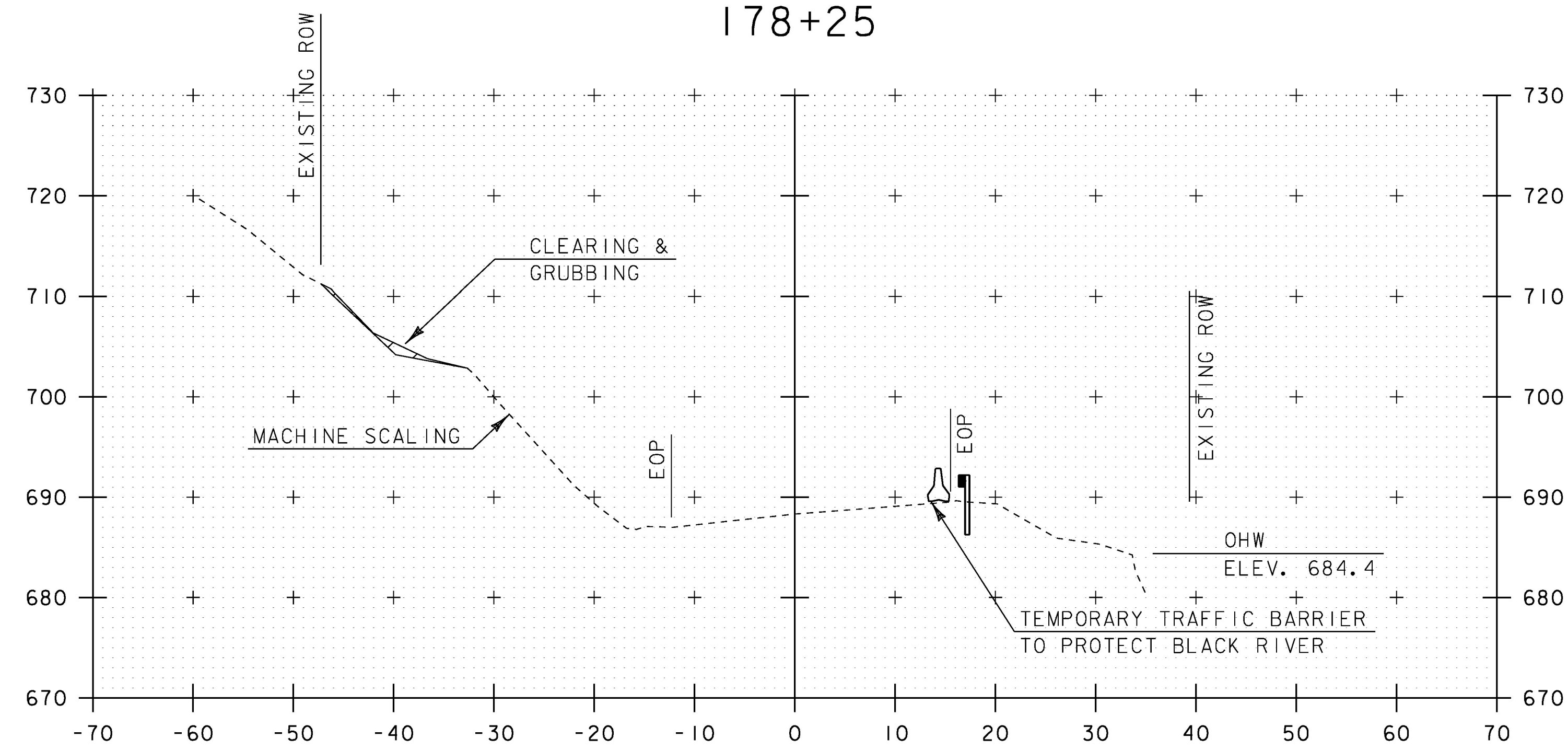
PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d10c14xsc.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 22 OF 29
DESIGNED BY: S. ZWICK	
CROSS SECTION SHEET 6	



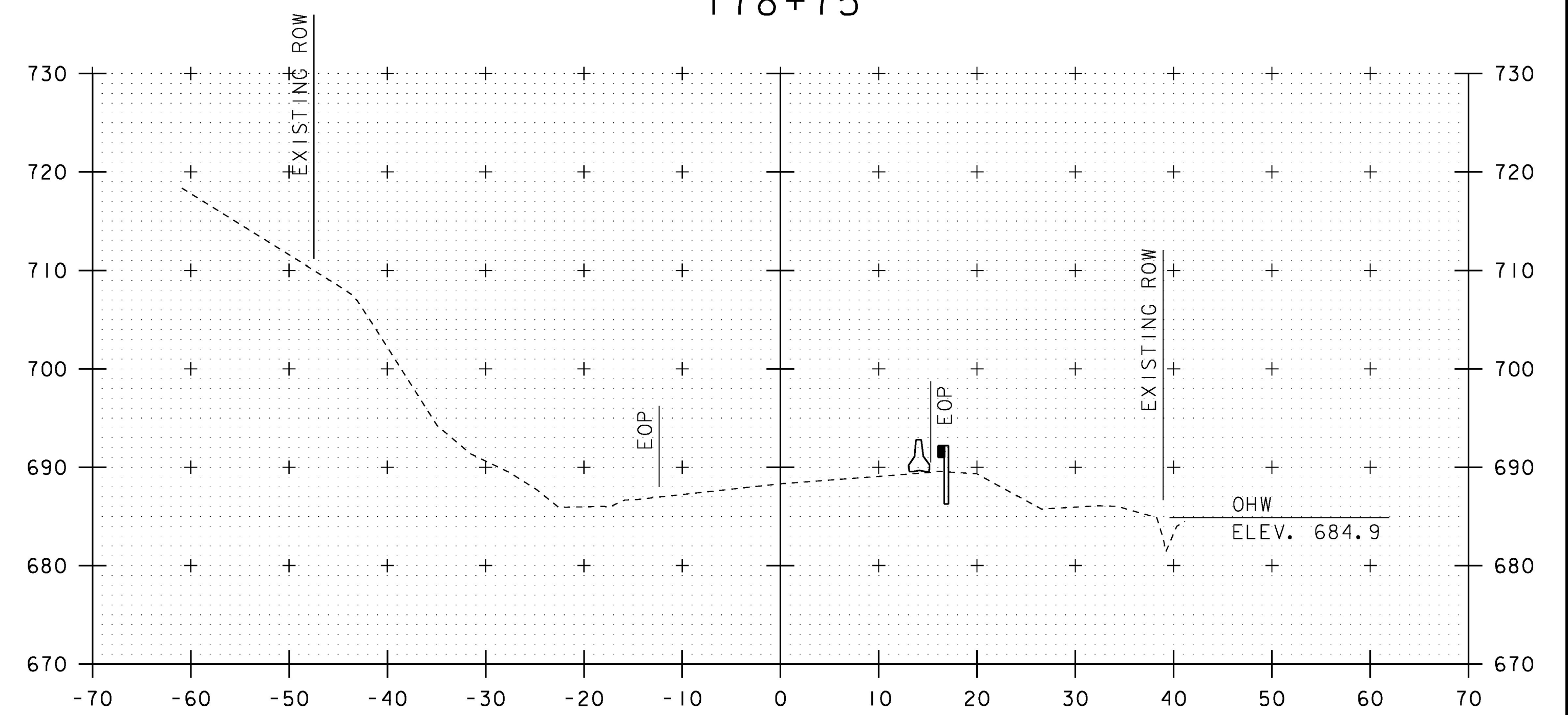
178+25



178+75



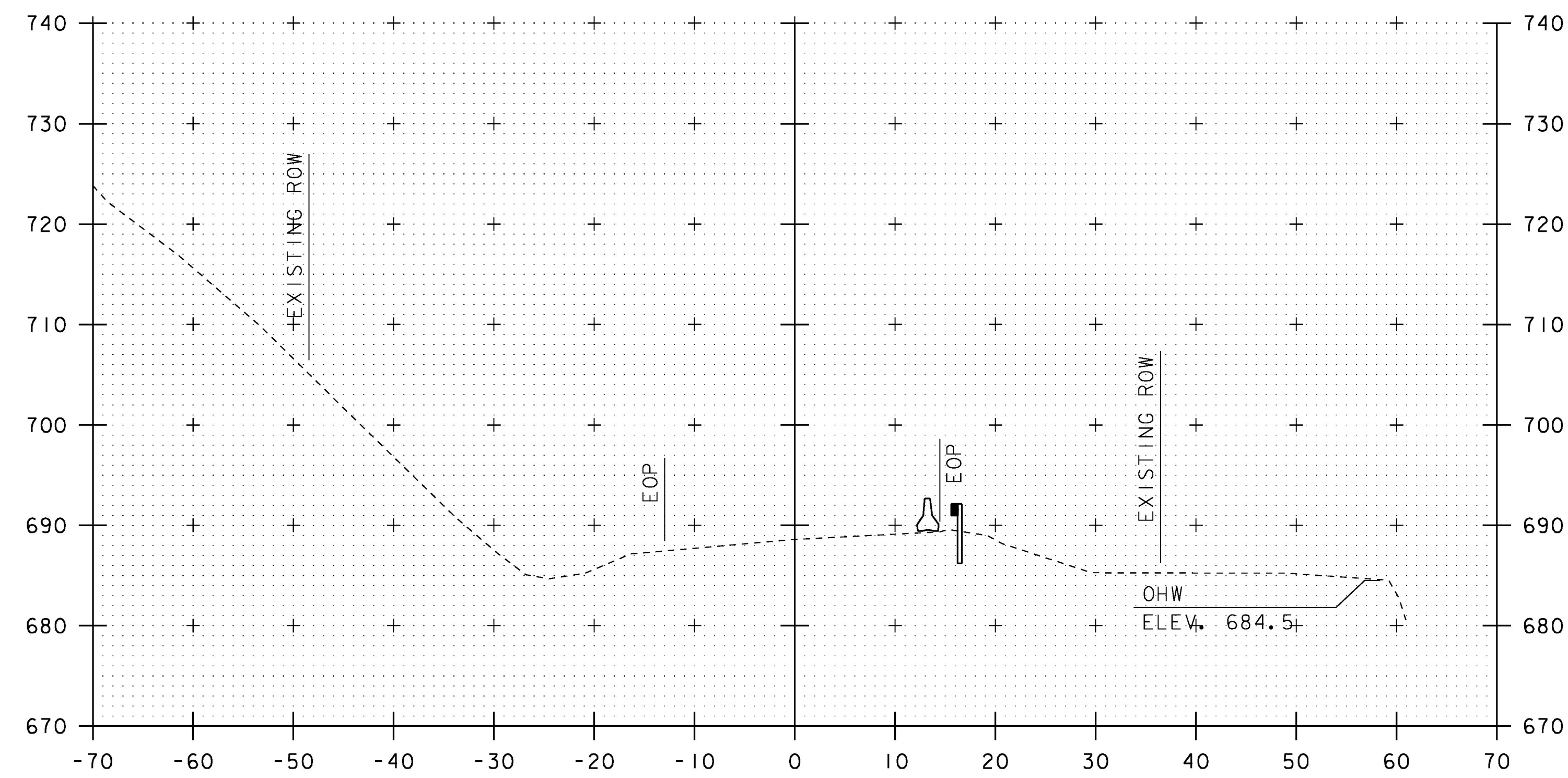
178+18



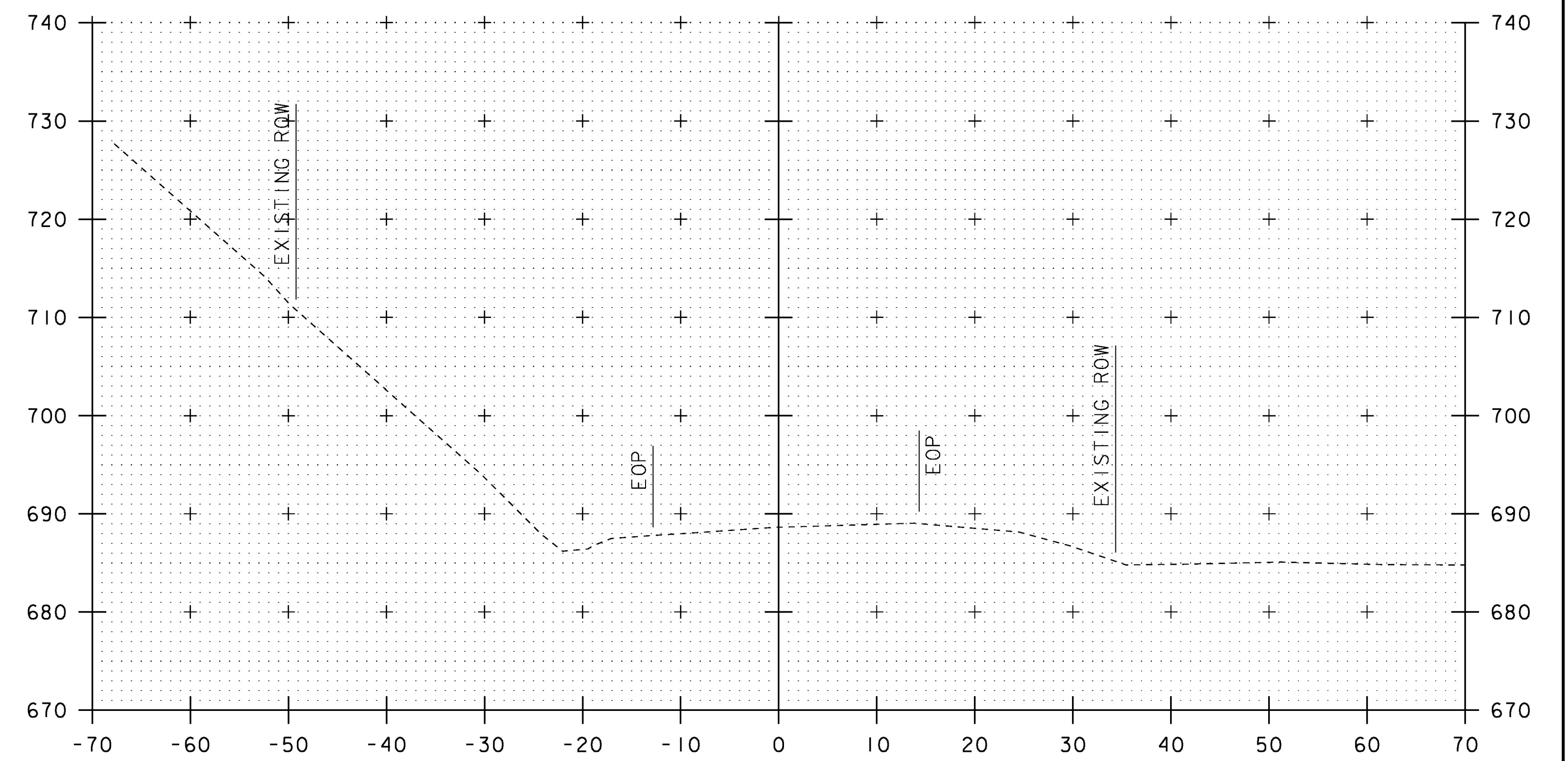
178+50

STA. 178+18 TO STA. 178+75

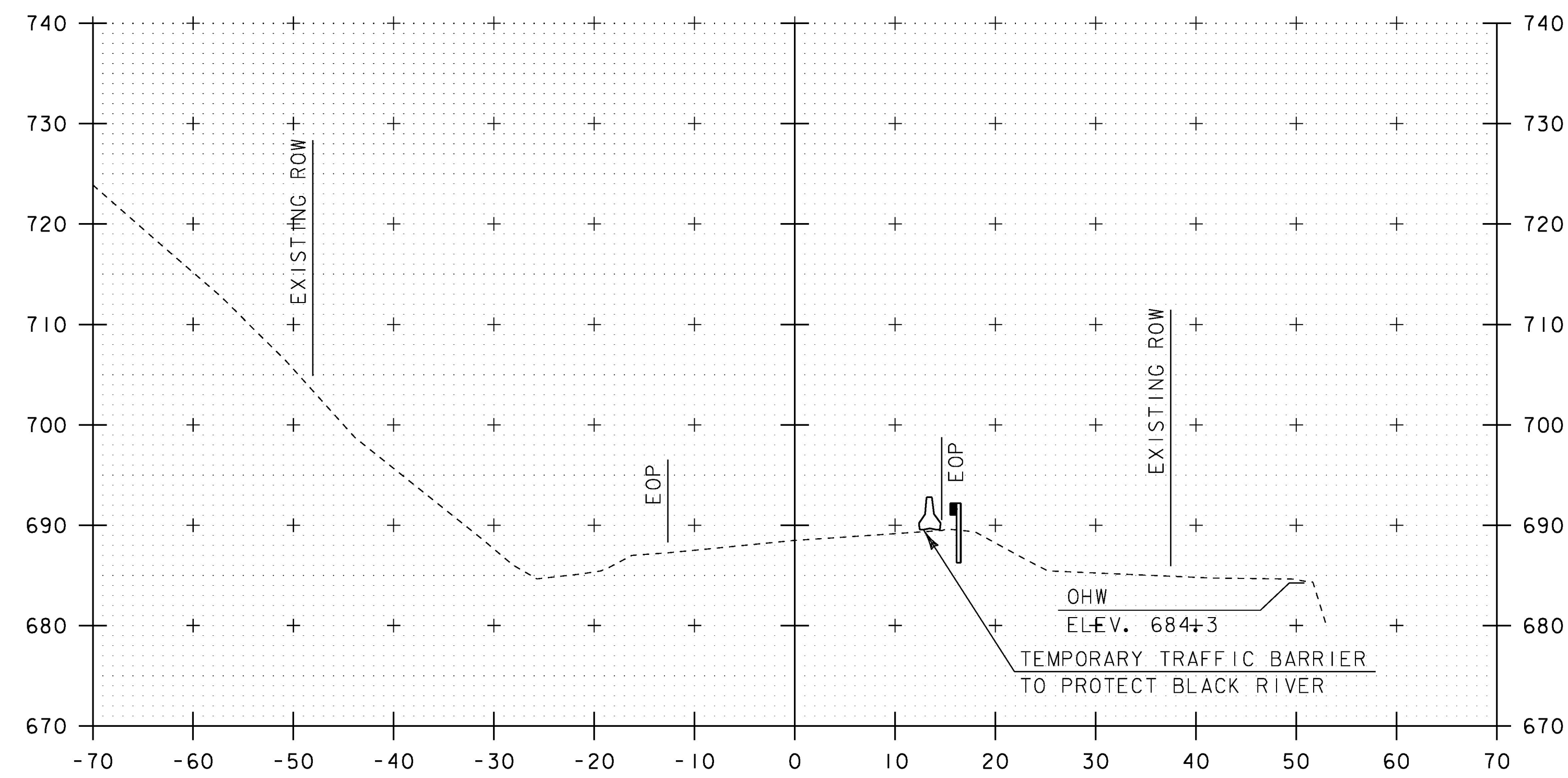
PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d10c114xsc.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 23 OF 29
DESIGNED BY: S. ZWICK	
CROSS SECTION SHEET 7	



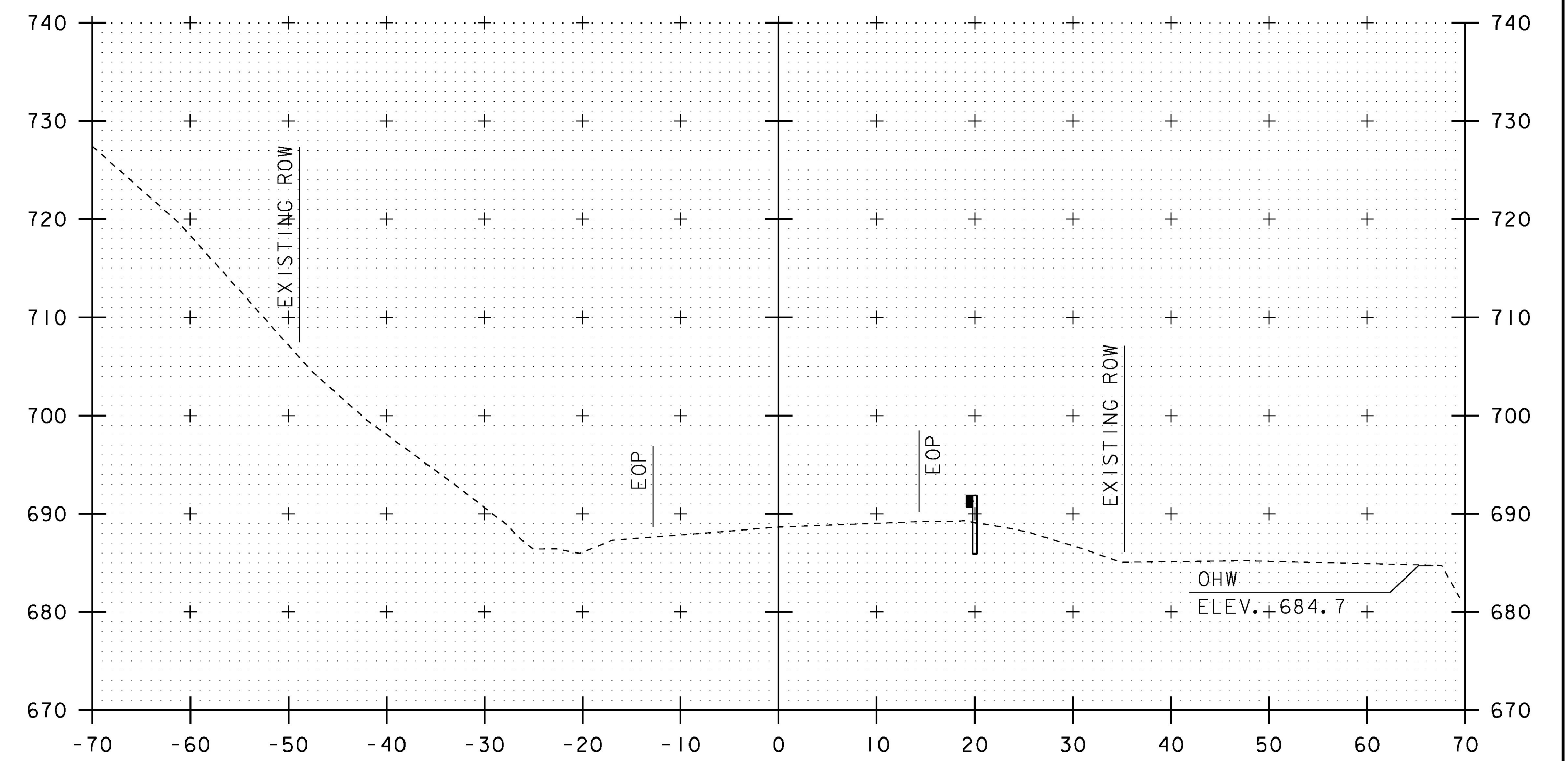
179+25



179+67



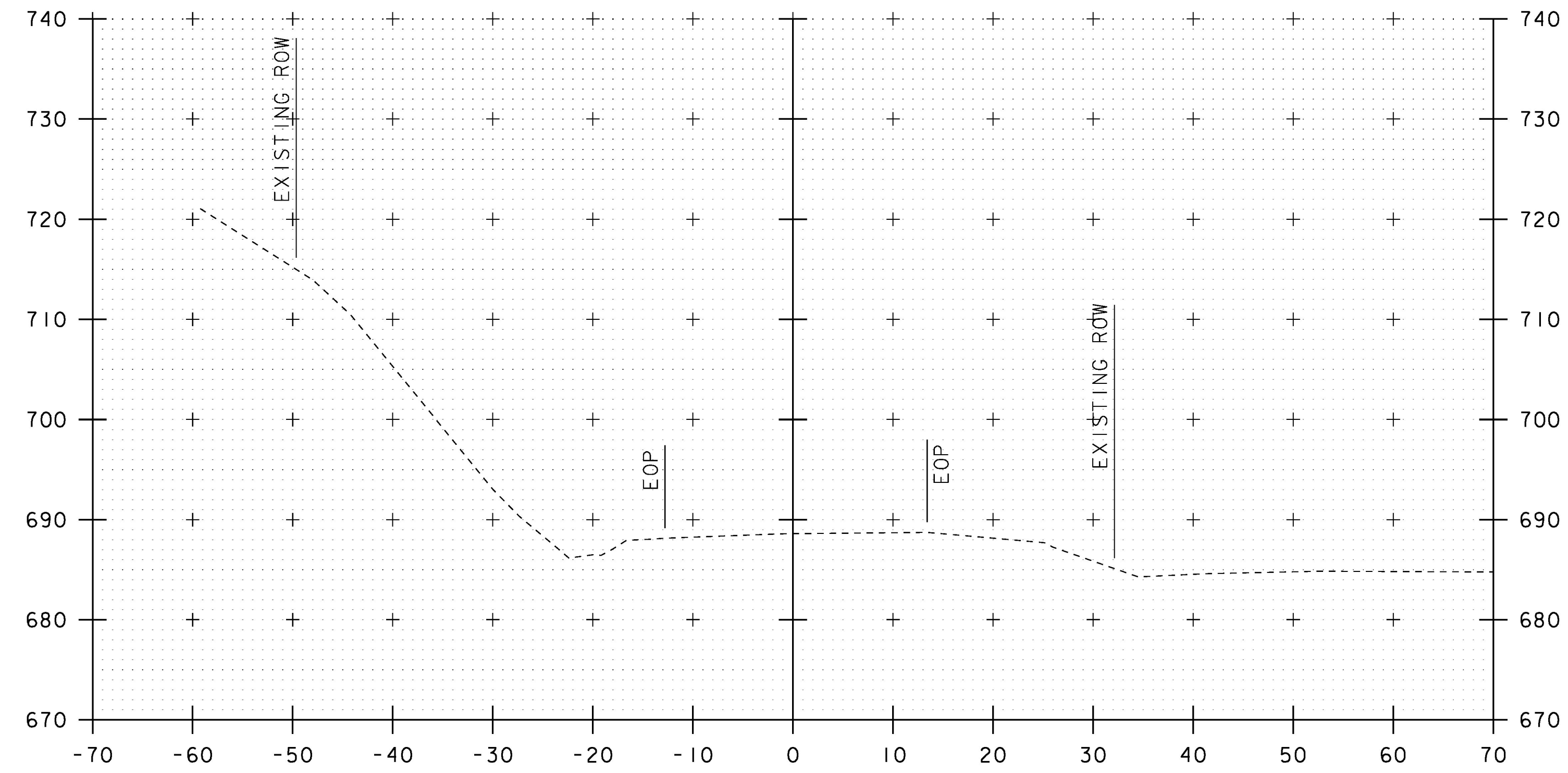
179+00



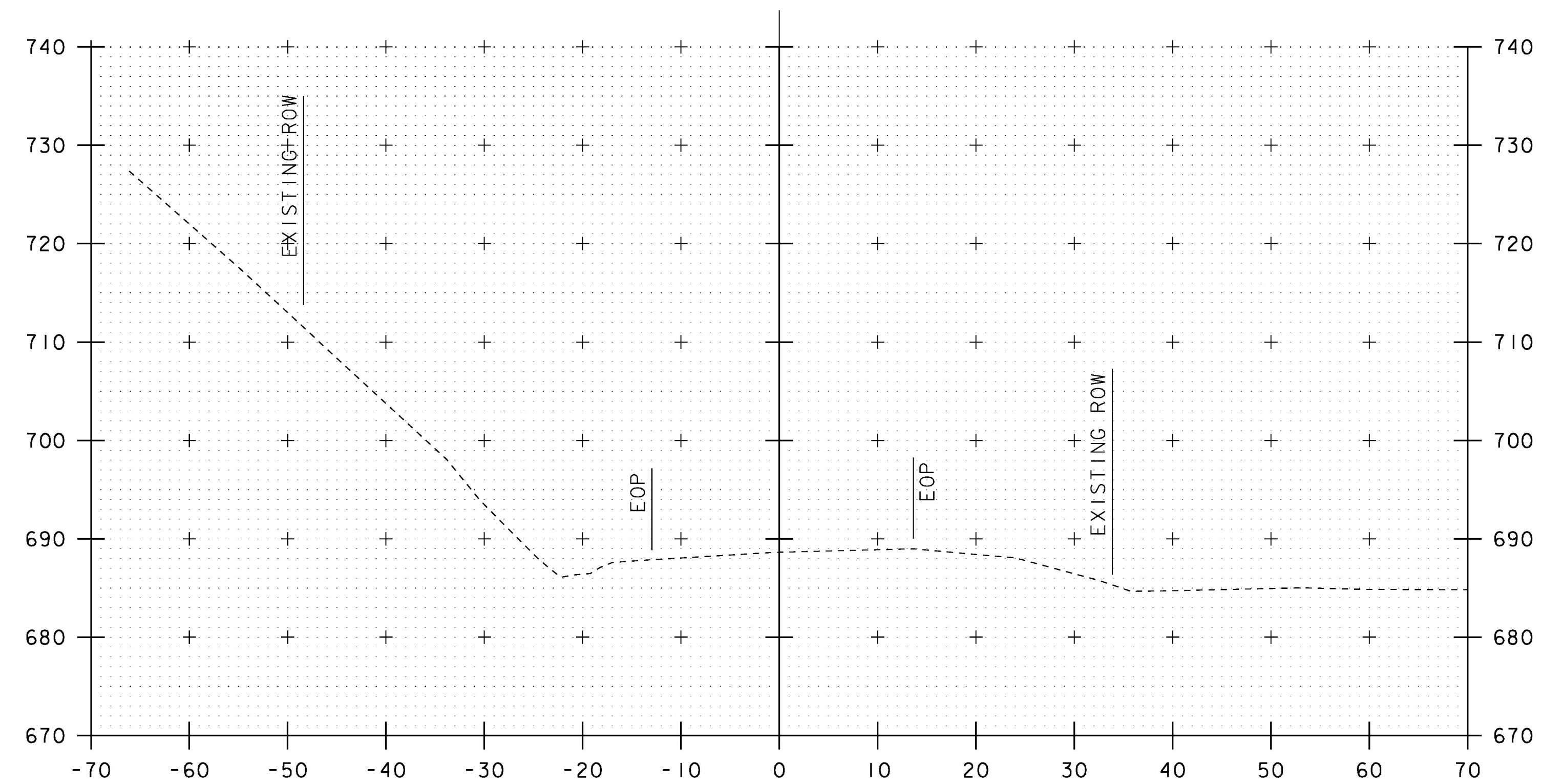
179+50

STA. 179+00 TO STA. 179+67

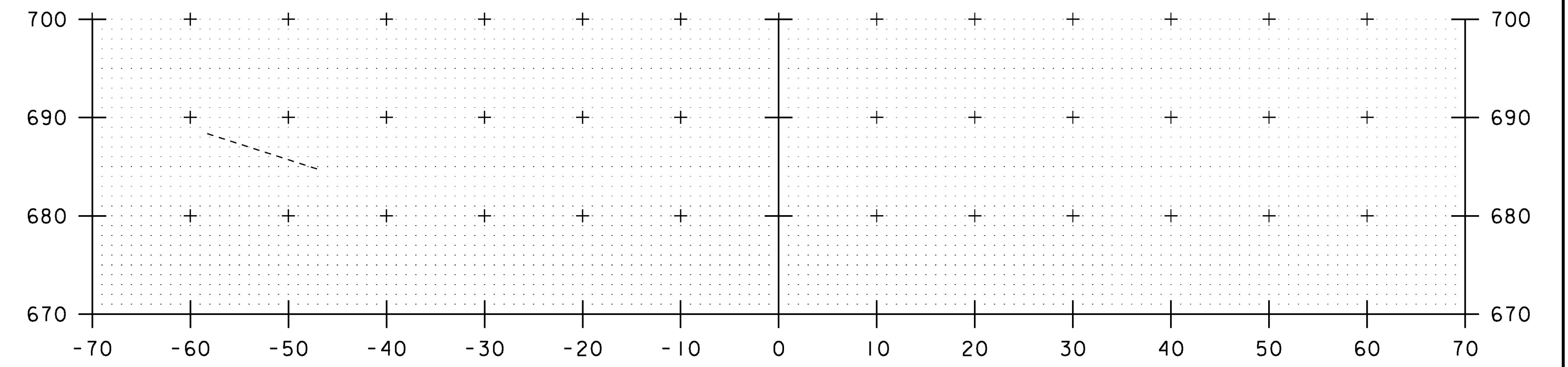
PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME:	d:\0c14\4xsc.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
CROSS SECTION SHEET	8
PLOT DATE:	15-FEB-2017
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
SHEET	24 OF 29



180+00

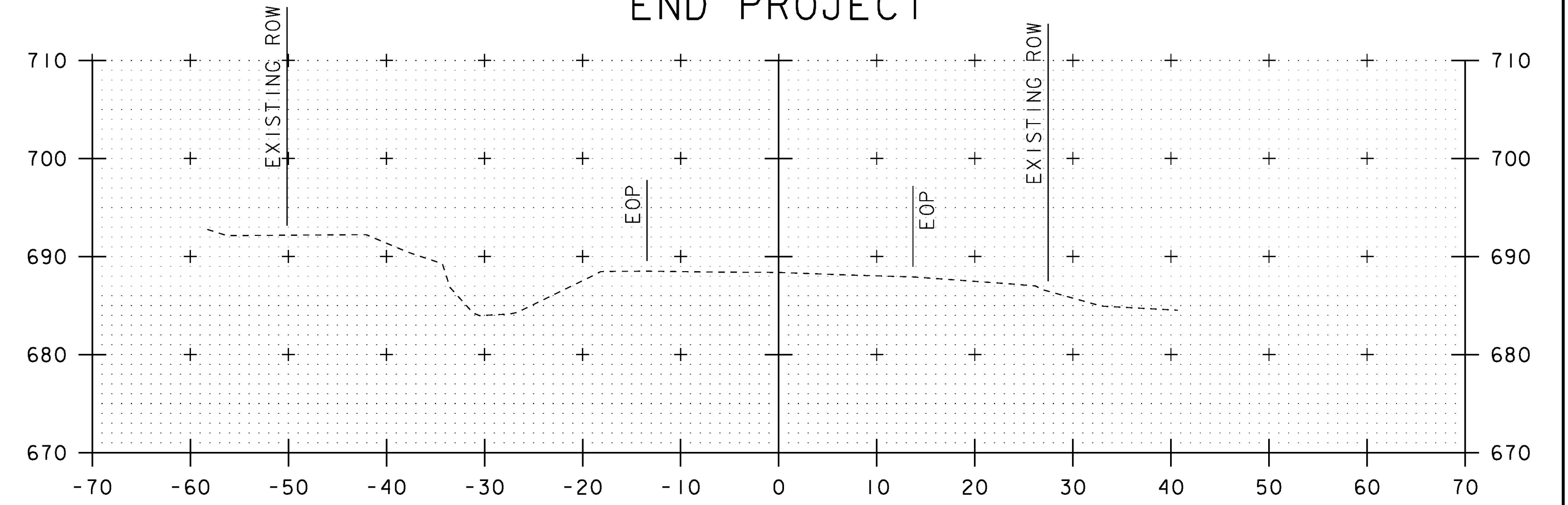


179+75

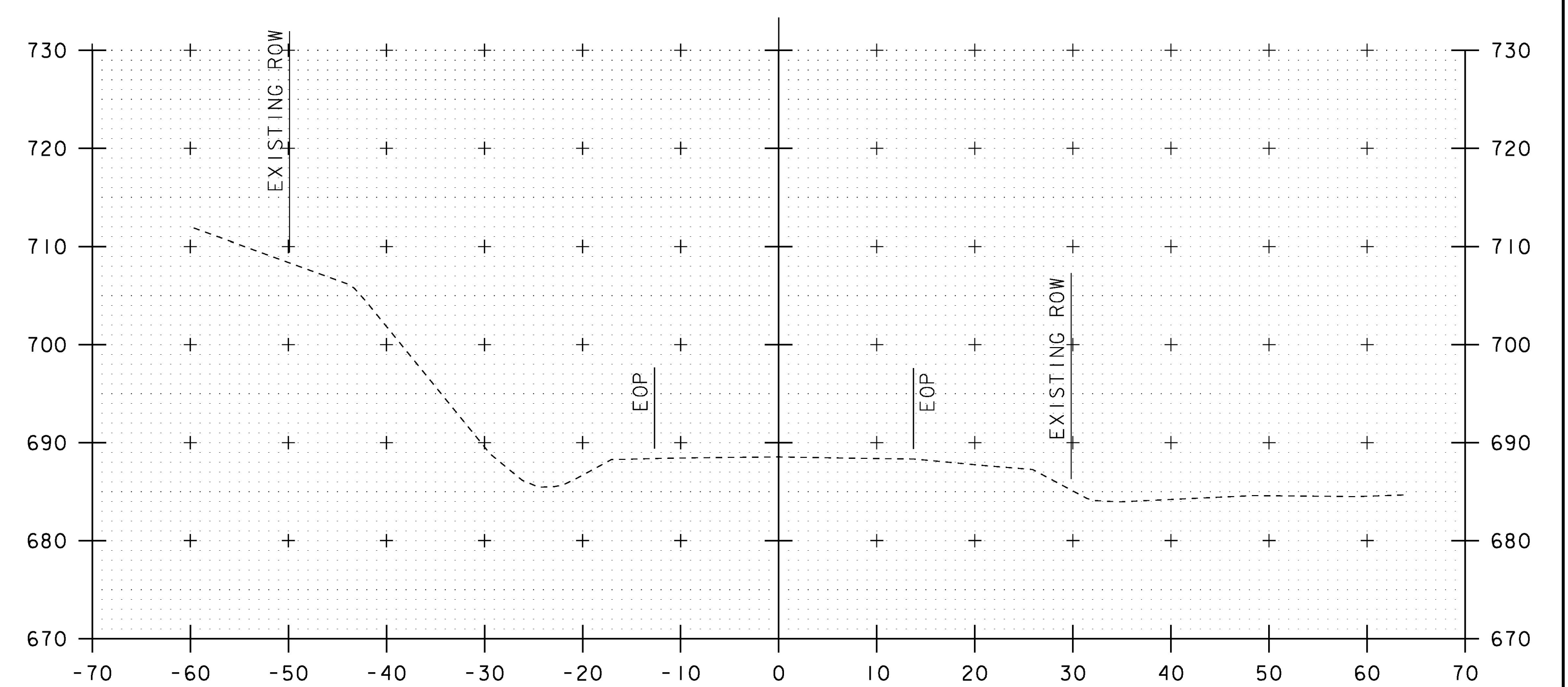


180+60

END PROJECT



180+50



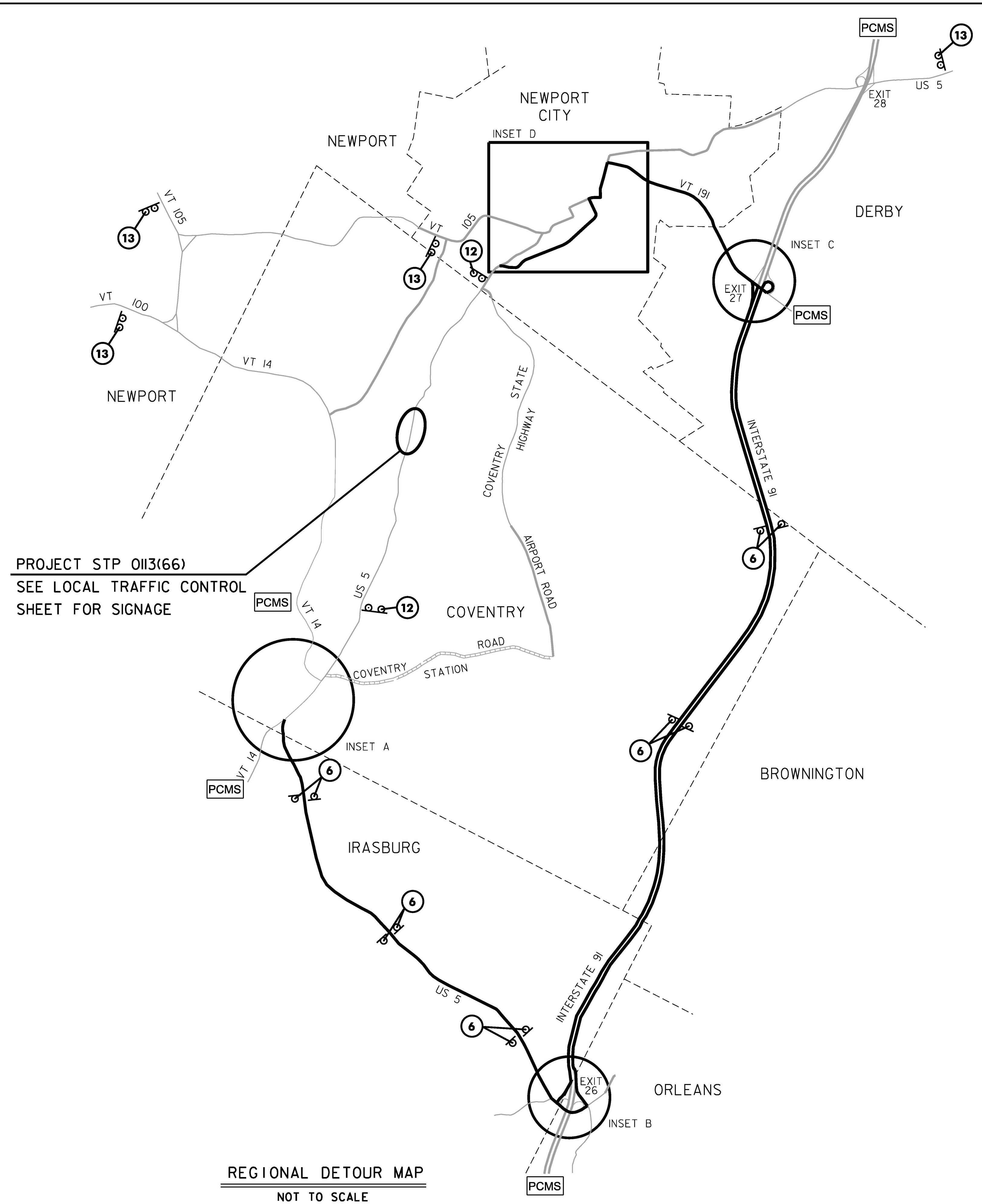
180+25

STA. 179+75 TO STA. 180+60





PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c14\4xsc.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 25 OF 29
DESIGNED BY: S. ZWICK	
CROSS SECTION SHEET 9	

**REGIONAL TRAFFIC CONTROL NOTES:**

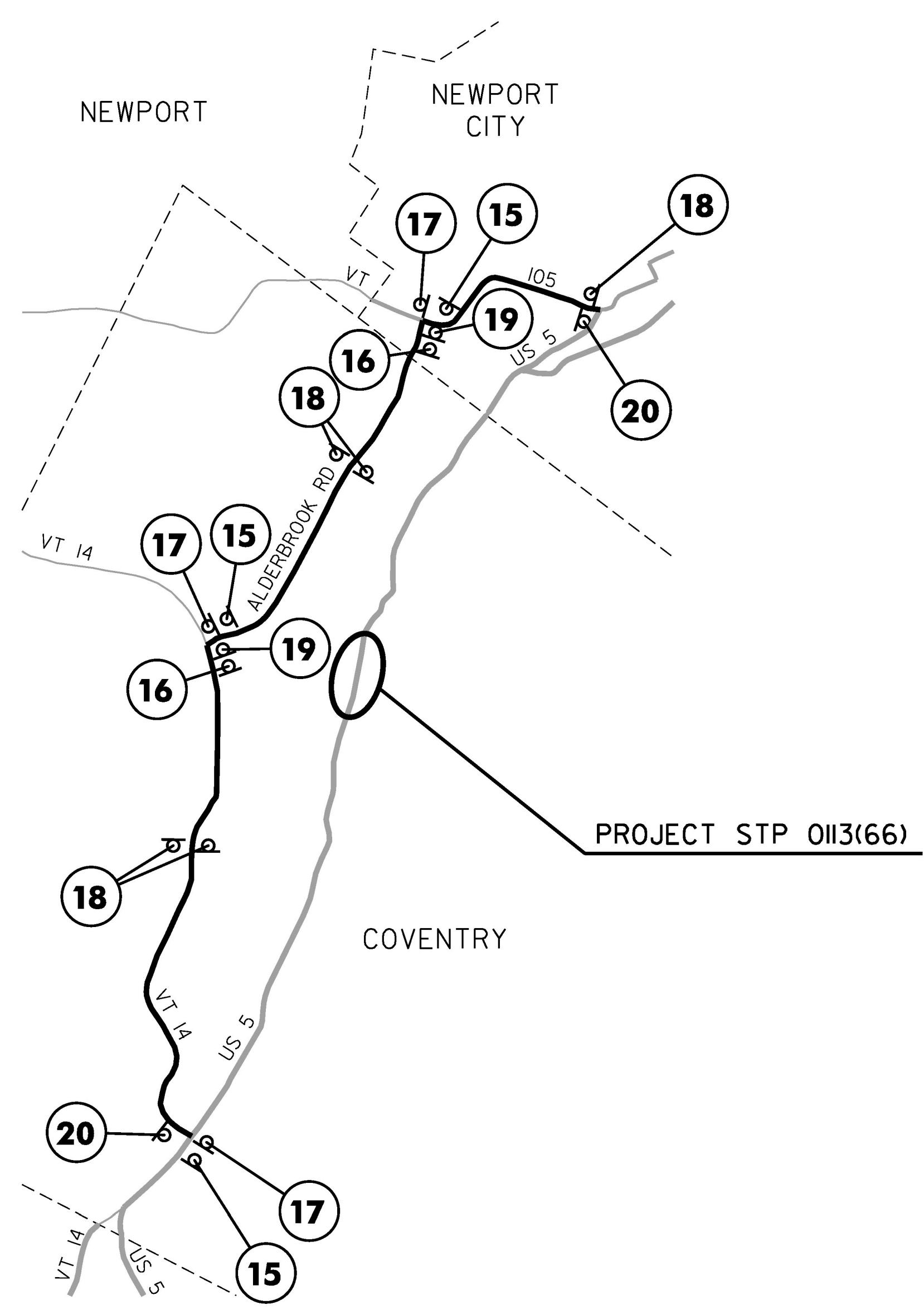
1. TRAFFIC WILL BE MAINTAINED ON A REGIONAL DETOUR AS SHOWN ON THE REGIONAL DETOUR MAP. DETOUR SIGNING IS THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR IMPLEMENTING THE DETOUR, INCLUDING BUT NOT LIMITED TO SIGNS, AND BARRICADES, WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL.
2. WHERE PRACTICAL, DETOUR ROUTE MARKERS AND ANY ADDITIONAL PROJECT CONSTRUCTION SIGNS SHALL BE INSTALLED ADJACENT TO EXISTING ROUTE MARKERS. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO BLOCK EXISTING TRAFFIC CONTROL SIGN ASSEMBLIES OR TO INTERFERE WITH STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. THE CONTRACTOR SHALL MAINTAIN AT LEAST 200 FEET BETWEEN SIGN ASSEMBLIES WHEREVER POSSIBLE.
3. ANY SIGN THAT CONFLICTS WITH THE ROAD CLOSURE DETOUR SHALL BE COVERED FOR THE DURATION OF THE ROAD CLOSURE. TREES AND SHRUBS WITHIN EXISTING RIGHT OF WAY AND OTHERWISE INTERFERING WITH VISIBILITY OF PROPOSED DETOUR SIGNS SHALL BE TRIMMED ACCORDINGLY. PAYMENT FOR SUCH COVERS AND TRIMMING WILL BE MADE UNDER ITEM 641.10 TRAFFIC CONTROL.
4. THE FIVE PORTABLE CHANGEABLE MESSAGE SIGNS IN SUPPORT OF THE REGIONAL DETOUR SHALL BE PLACED AND FULLY OPERATIONAL A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AND REMAIN THROUGH THE DURATION OF THE ROADWAY CLOSURE PERIOD. PAYMENT FOR THIS WORK SHALL BE MADE UNDER CONTRACT ITEM 641.15 PORTABLE CHANGABLE MESSAGE SIGN.



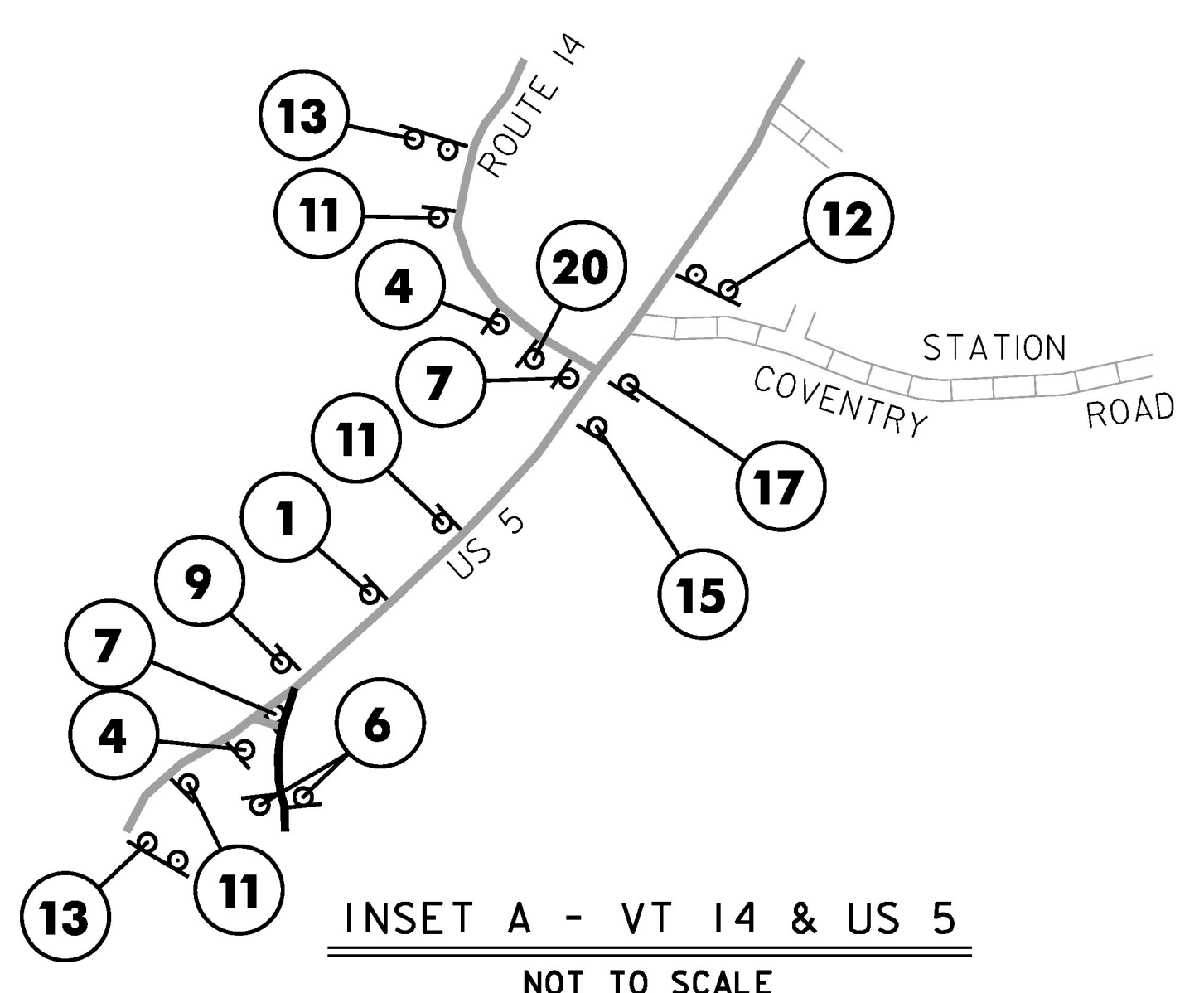
**LEGEND:**

-  SIGN ASSEMBLY
-  SIGN ASSEMBLY INDICATOR
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  DETOUR ROUTE

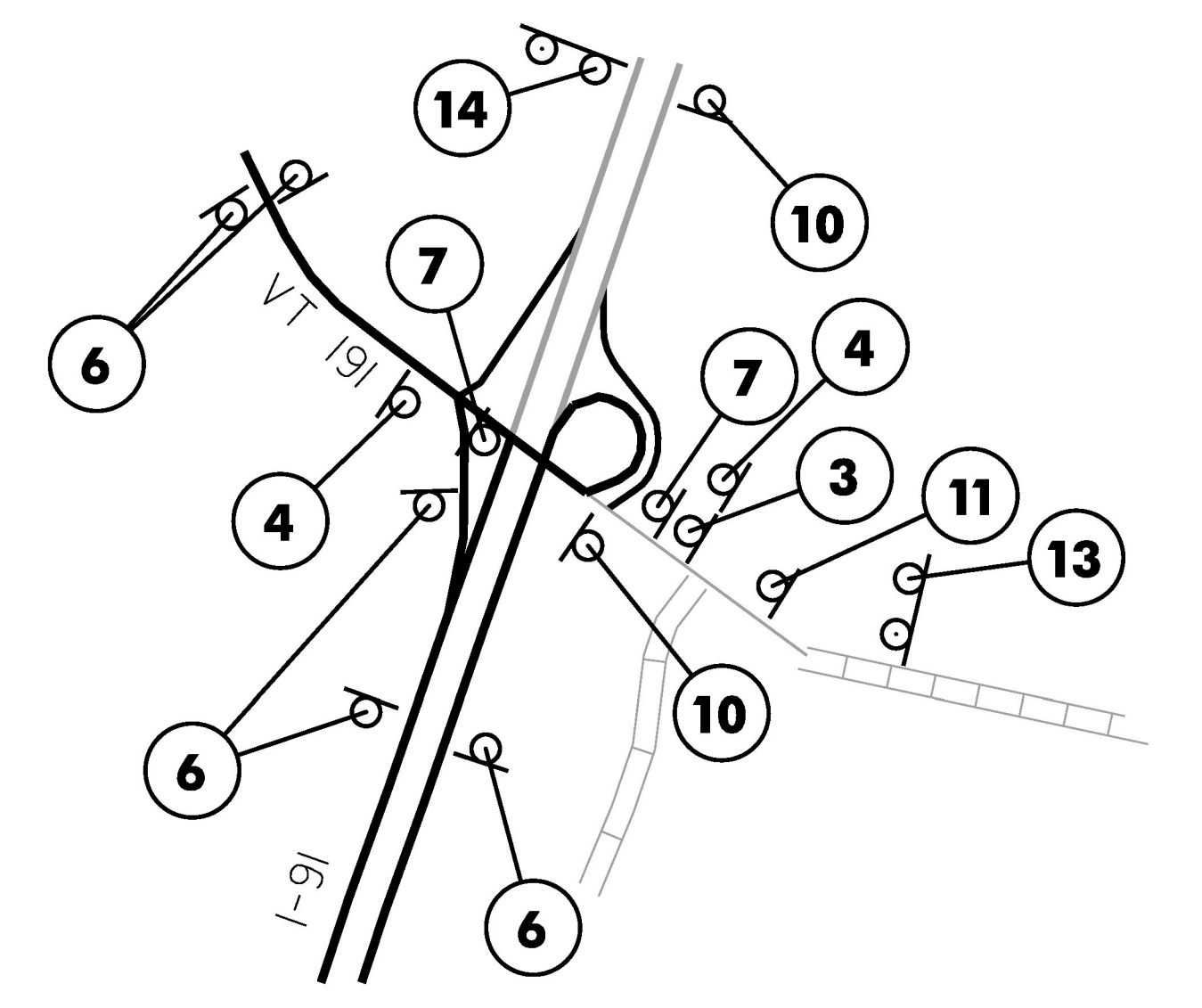
PROJECT NAME: COVENTRY	
PROJECT NUMBER: STP 0113(66)	
FILE NAME: d:\0c114\detour.dgn	PLOT DATE: 15-FEB-2017
PROJECT LEADER: K. UPMAL	DRAWN BY: S. ZWICK
DESIGNED BY: S. ZWICK	CHECKED BY: C. LEACH
TRAFFIC CONTROL SHEET 1	SHEET 26 OF 29



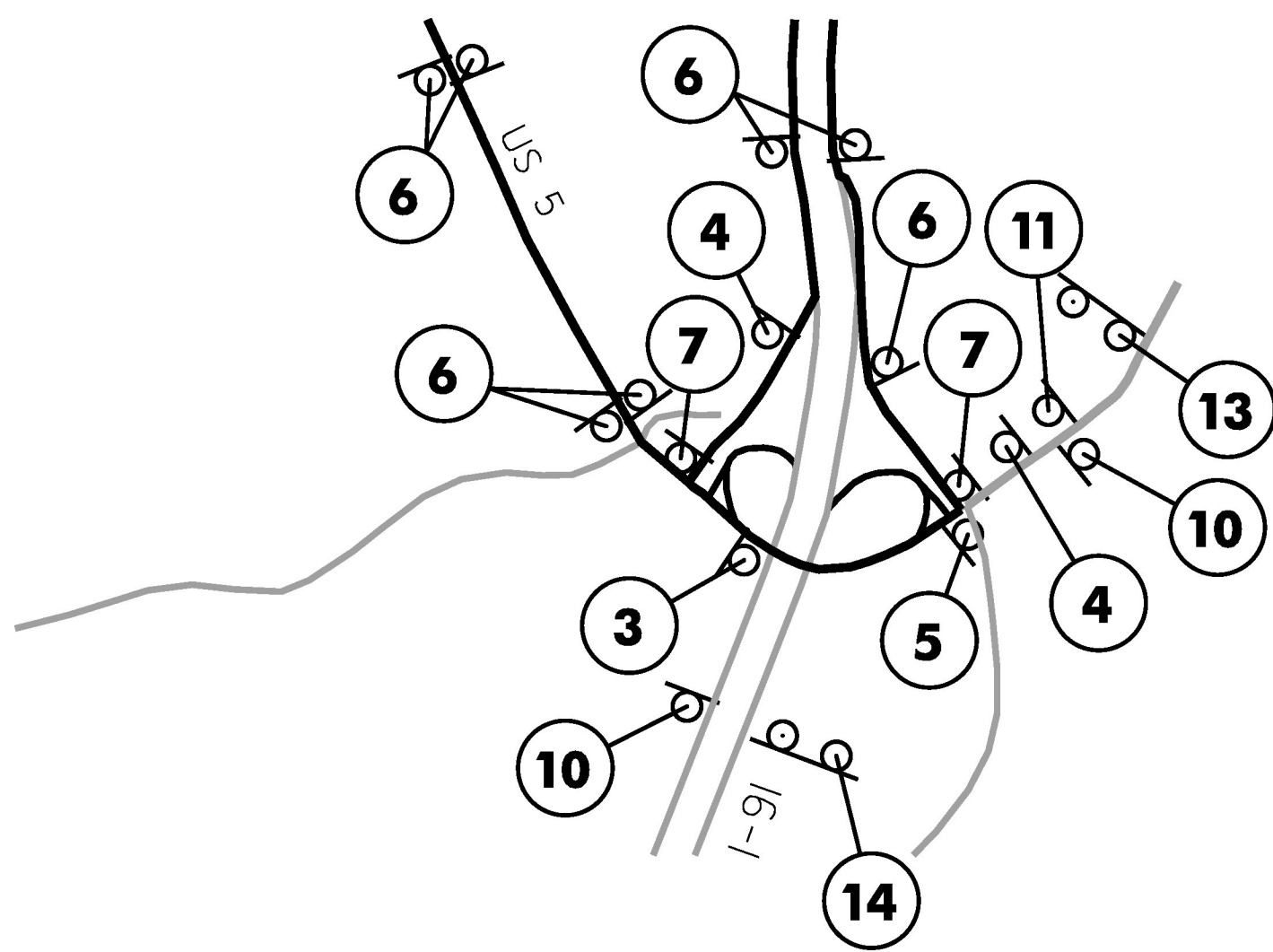
BICYCLE DETOUR MAP  
NOT TO SCALE



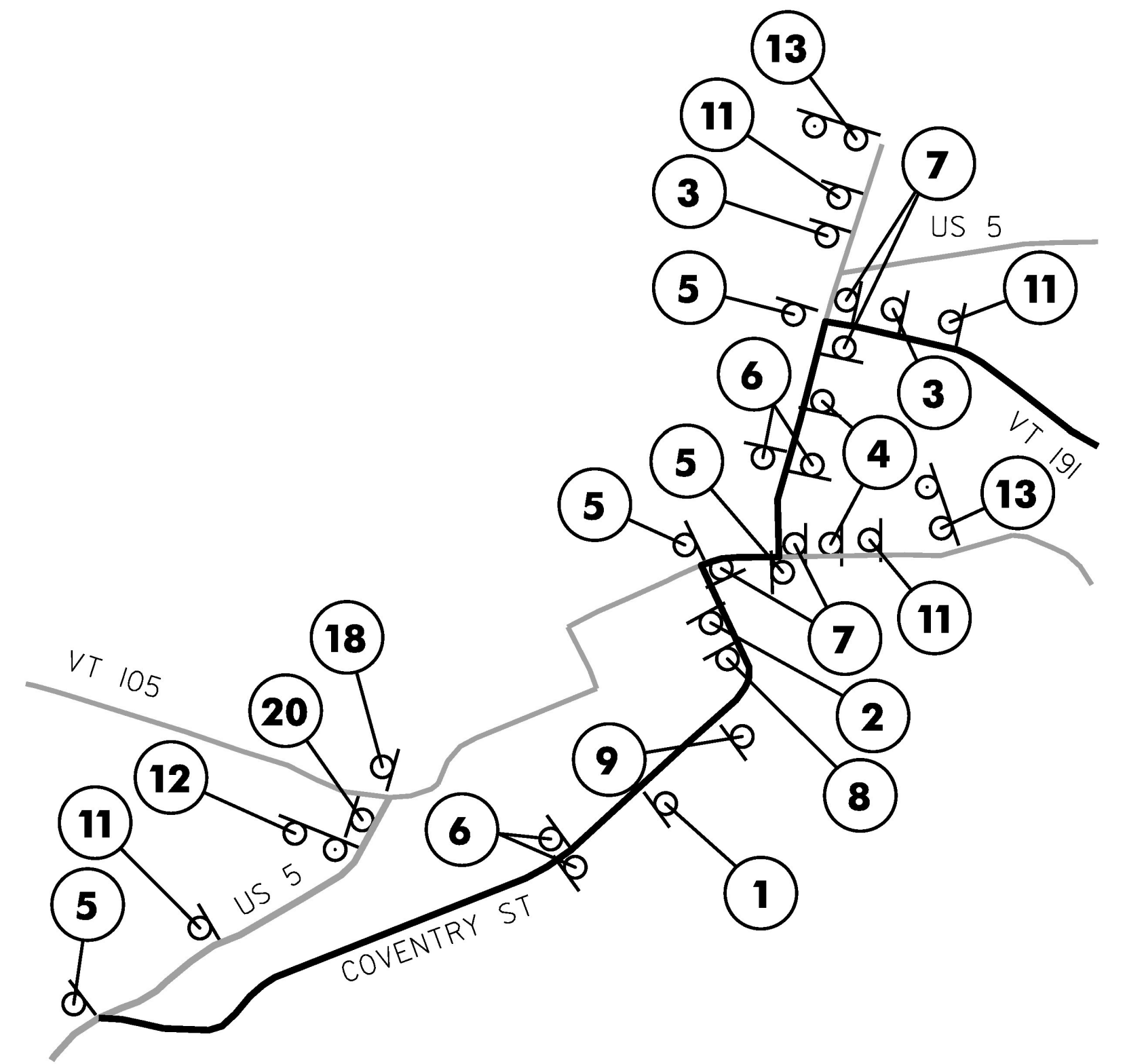
INSET A - VT 14 & US 5  
NOT TO SCALE



INSET C - EXIT 27  
NOT TO SCALE

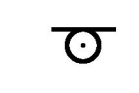




INSET B - EXIT 26  
NOT TO SCALE

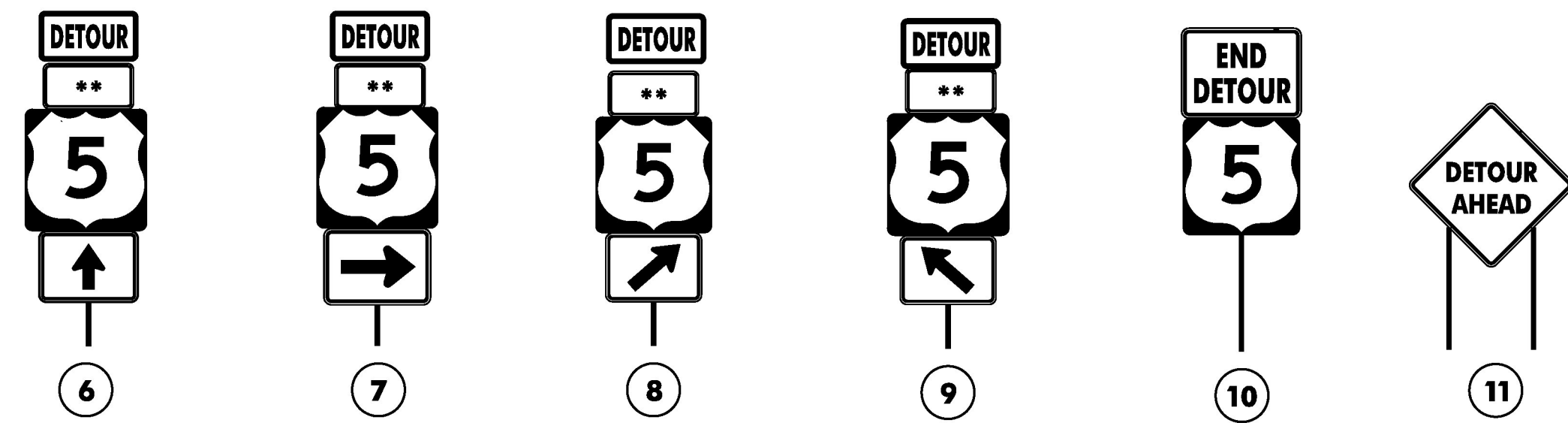
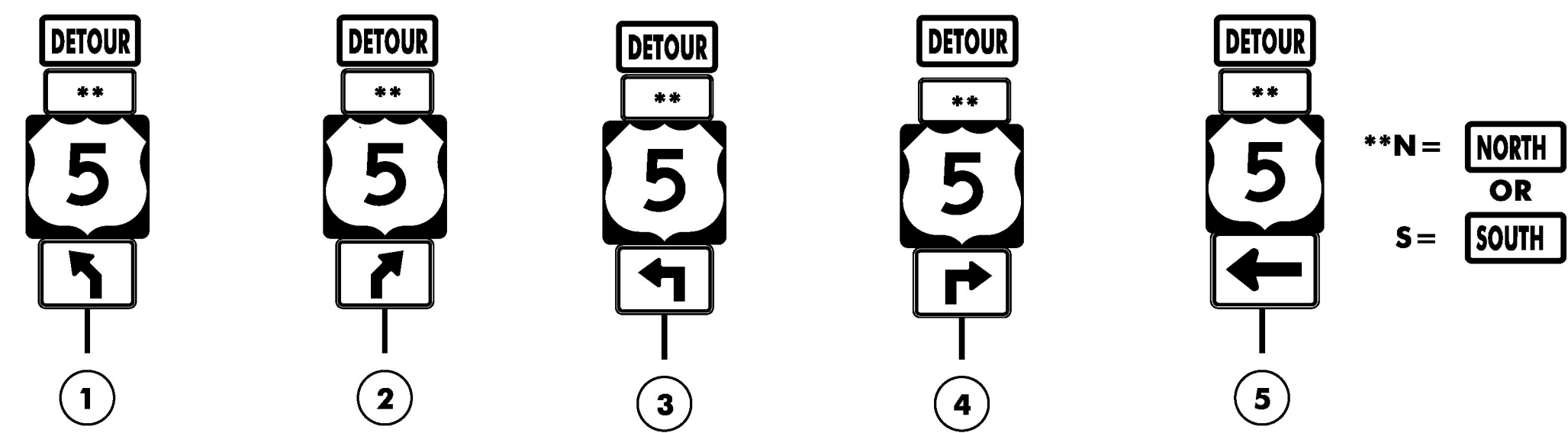


INSET D - COVENTRY ST & US 5  
NOT TO SCALE

LEGEND:

-  SIGN ASSEMBLY
-  SIGN ASSEMBLY INDICATOR
-  DETOUR ROUTE

PROJECT NAME:	COVENTRY
PROJECT NUMBER:	STP 0113(66)
FILE NAME:	d:\0c14\detour.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	S. ZWICK
TRAFFIC CONTROL SHEET 2	
PLOT DATE:	15-FEB-2017
DRAWN BY:	S. ZWICK
CHECKED BY:	C. LEACH
	SHEET 27 OF 29



US RT 5  
CLOSED  
BETWEEN

PHASE 1

US RT 5  
CLOSED  
BETWEEN

PHASE 1

* MMM DD  
TO  
MMM DD

PHASE 2

NEWPORT  
CITY &  
COVENTRY

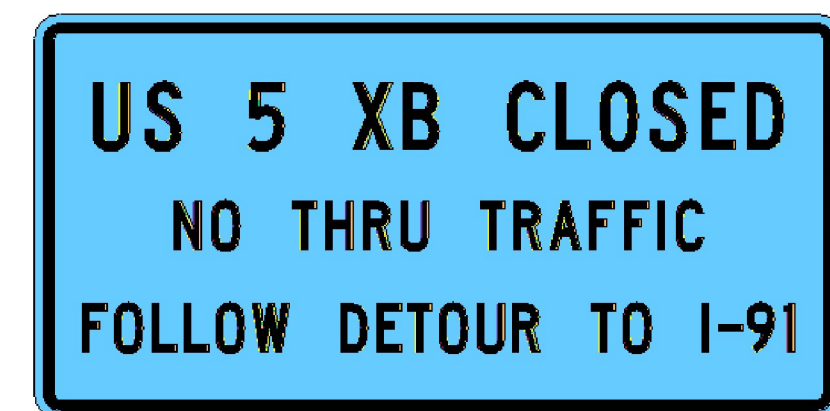
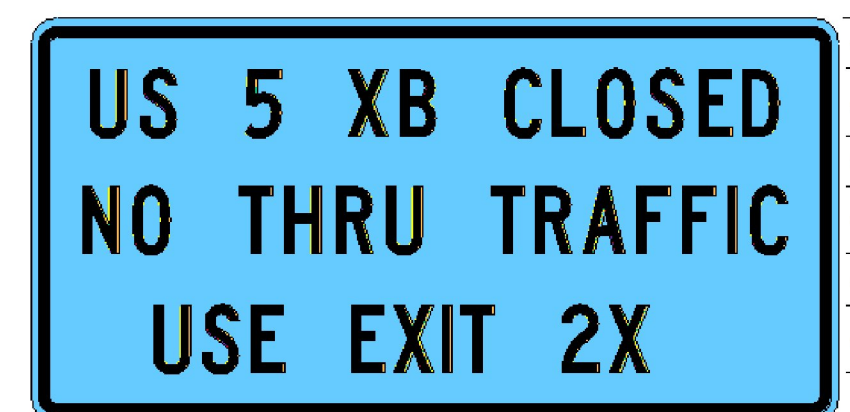
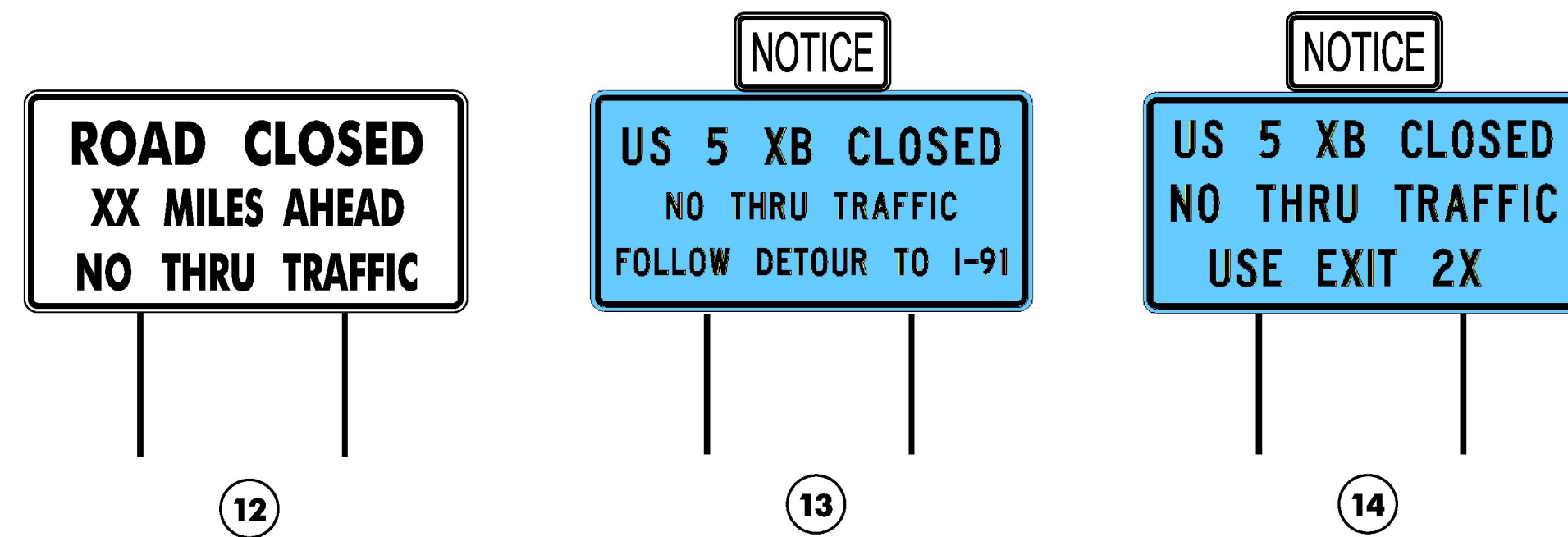
PHASE 2

PRIOR TO ROAD CLOSURE

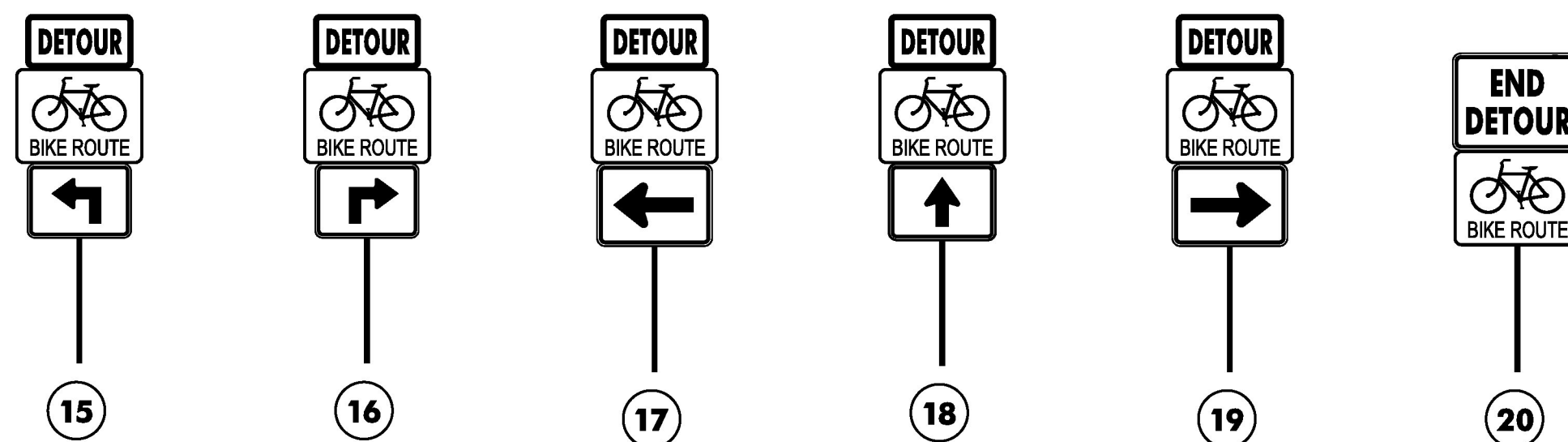
DURING ROAD CLOSURE

NOTE: MONTH SHALL BE SPELLED OUT IN FULL OR ABBREVIATED AS NEEDED. EXAMPLE: JULY 20, NOT 07/20

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



INTERSTATE AND STATE ROUTE SIGN DETAILS

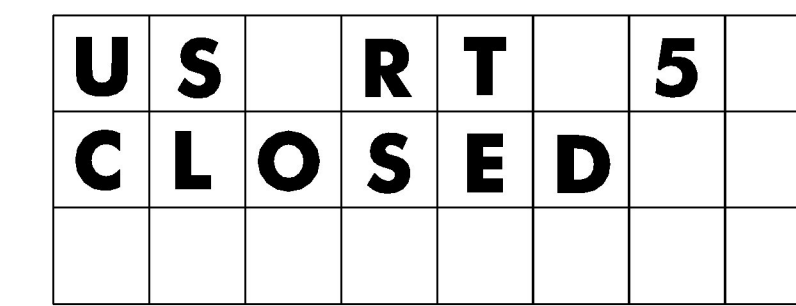


SIGN LEGEND	SIGN DIMENSIONS		SIGN COLOR
	WIDTH (in)	HEIGHT (in)	
MI-4	24	24	B/W
	36	36	
M3-1  M3-3	24	12	G/W
	36	18	
M4-8	24	12	B/F0
	30	15	
M4-8A	24	18	B/F0
M5-1L M5-1R M5-2L M5-2R	21	15	B/F0
M6-1L M6-3 M6-1R	21	15	B/F0
	30	21	
M6-2R M6-2R	21	15	B/F0
DII-1	24	18	B/W
RII-3A	60	30	B/W
W20-2	48	48	B/F0
WIG-18P	36	18	B/FY
FOLLOW DETOUR TO I-91	96	48	B/F0
USE EXIT 2X	96	48	B/F0

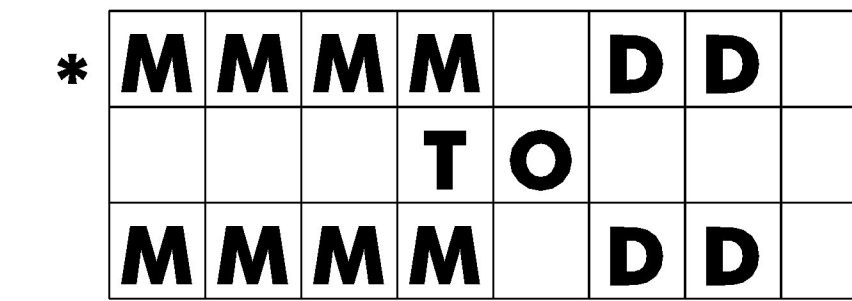
PROJECT NAME: COVENTRY  
 PROJECT NUMBER: STP 0113(66)  
 FILE NAME: d:\0114\detour.dgn  
 PROJECT LEADER: K. UPMAL  
 DESIGNED BY: S. ZWICK  
 TRAFFIC CONTROL SHEET 3  
 PLOT DATE: 15-FEB-2017  
 DRAWN BY: S. ZWICK  
 CHECKED BY: C. LEACH  
 SHEET 28 OF 29

LOCAL TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT MUTCD AND ITS LATEST REVISIONS.
2. LAYOUT AND QUANTITY OF TRAFFIC CONTROL DEVICES SHOWN IS CONCEPTUAL. THE CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE A DETAILED SITE SPECIFIC TRAFFIC CONTROL PLAN IDENTIFYING ROADWAY CLOSURE METHOD, PRE-CONSTRUCTION WORK, POST-CONSTRUCTION AND SIGN LOCATIONS IN ACCORDANCE WITH CONTRACT ITEM 641.10 TRAFFIC CONTROL. TRAFFIC CONTROL REQUIREMENTS, INCIDENTALS, AND PAYMENT SHALL BE IN ACCORDANCE WITH ITEM 641.10, TRAFFIC CONTROL.
3. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT. THE MESSAGE SIGNS SHALL BE PLACED TWO WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY TO WARN THE TRAVELING PUBLIC OF THE PROJECT. THE MESSAGE SIGNS SHALL BE REMOVED OR DEPLOYED TO LOCATIONS SPECIFIED BY THE ENGINEER ONCE CONSTRUCTION HAS BEGUN. PAYMENT FOR THIS WORK SHALL BE MADE UNDER CONTRACT ITEM 641.15 PORTABLE CHANGEABLE MESSAGE SIGN.
4. INITIATION OF TRAFFIC CONTROL MEASURES WILL NOT BE PERMITTED BETWEEN THE DATES OF AUGUST 20 AND JUNE 20 UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONCE TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED, THE CONTRACTOR SHALL BEGIN WORK IMMEDIATELY AND PROCEED IN A TIMELY MANNER THROUGH TO COMPLETION OF CONSTRUCTION IN ORDER TO MINIMIZE HAZARD AND INCONVENIENCE TO THE TRAVELING PUBLIC.
5. ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE CLEANED WEEKLY OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.10 TRAFFIC CONTROL.
6. IN THE EVENT OF AN EMERGENCY VEHICLE TRAVERSING THROUGH THE PROJECT AREA, ALL WORK WILL BE IMMEDIATELY STOPPED AND A CLEAR TRAVEL LANE WILL BE PROVIDED TO THE EMERGENCY VEHICLE. WORK CREWS WILL COMMUNICATE THROUGH RADIO AND ENSURE SAFE PASSAGE IS PROVIDED TO ALL EMERGENCY VEHICLES.
7. BARRICADES SHALL BE MOVED IF NECESSARY FOR AUTHORIZED EQUIPMENT AND VEHICLE ACCESS INTO THE WORK ZONE. BARRICADES SHALL BE IN PLACE TO CLOSE OFF THE ROADWAY FROM THROUGH TRAFFIC ONCE WORK IS CONCLUDED EACH DAY. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.10 TRAFFIC CONTROL.
8. THE ROAD CLOSURE SHALL BE IN PLACE FOR A MAXIMUM OF 4 WEEKS.



PHASE 1

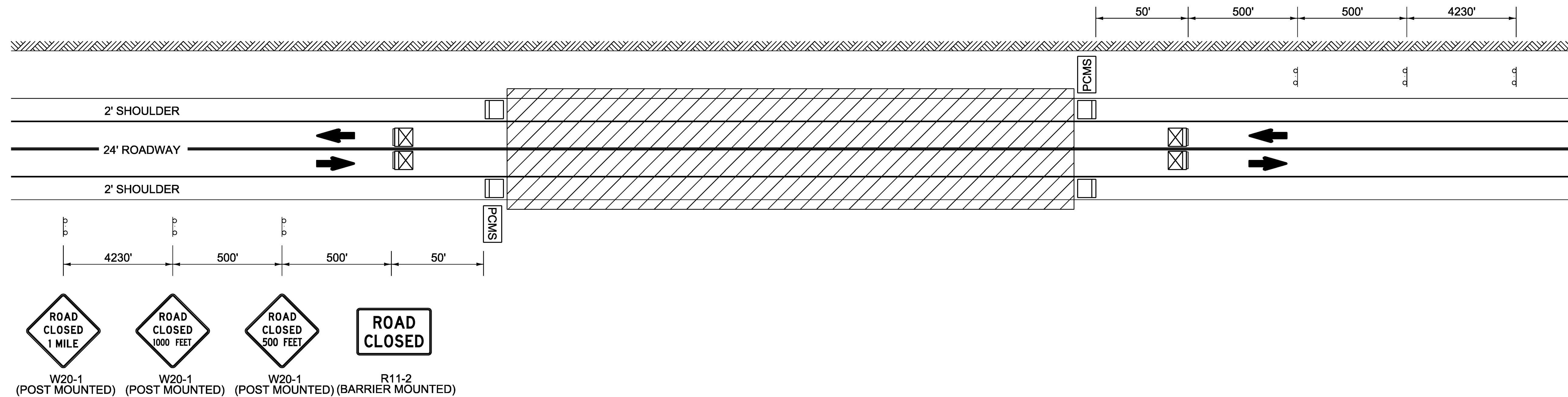
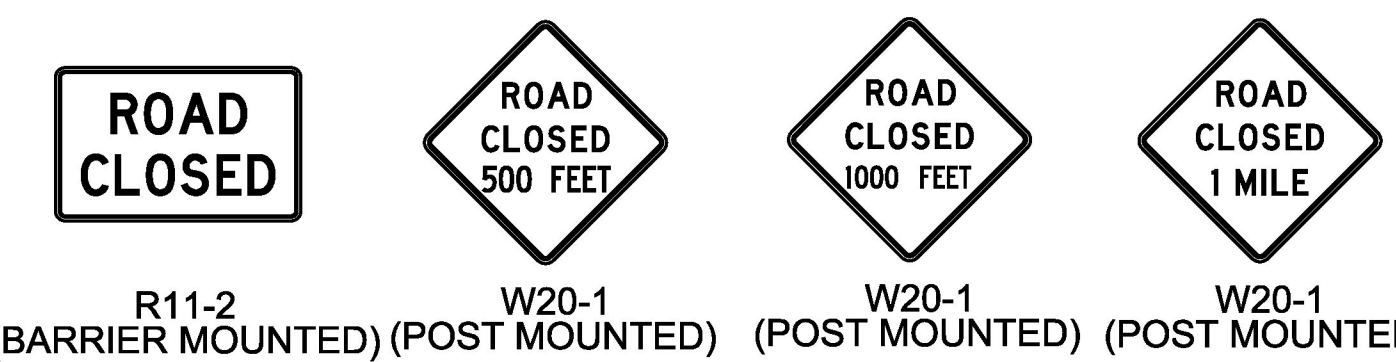


PHASE 2

* M=MONTH  
D=DAY

NOTE: MONTH SHALL BE SPELLED OUT IN FULL OR ABBREVIATED AS NEEDED. EXAMPLE: JULY 20, NOT 07/20

PORTABLE CHANGEABLE MESSAGE SIGN  
TEXT AT ROAD CLOSURE



- DIRECTION OF TRAFFIC
- WORK AREA
- TYPE III BARRICADE
- TYPE III (MOD.) BARRICADE
- PORTABLE CHANGEABLE MESSAGE SIGN

WORK ZONE  
(NOT TO SCALE)

PROJECT NAME: COVENTRY	PLOT DATE: 15-FEB-2017
PROJECT NUMBER: STP 0113(66)	DRAWN BY: S. ZWICK
FILE NAME: d:\0c114frm.dgn	CHECKED BY: C. LEACH
PROJECT LEADER: K. UPMAL	SHEET 29 OF 29
DESIGNED BY: S. ZWICK	
TRAFFIC CONTROL SHEET 4	