

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

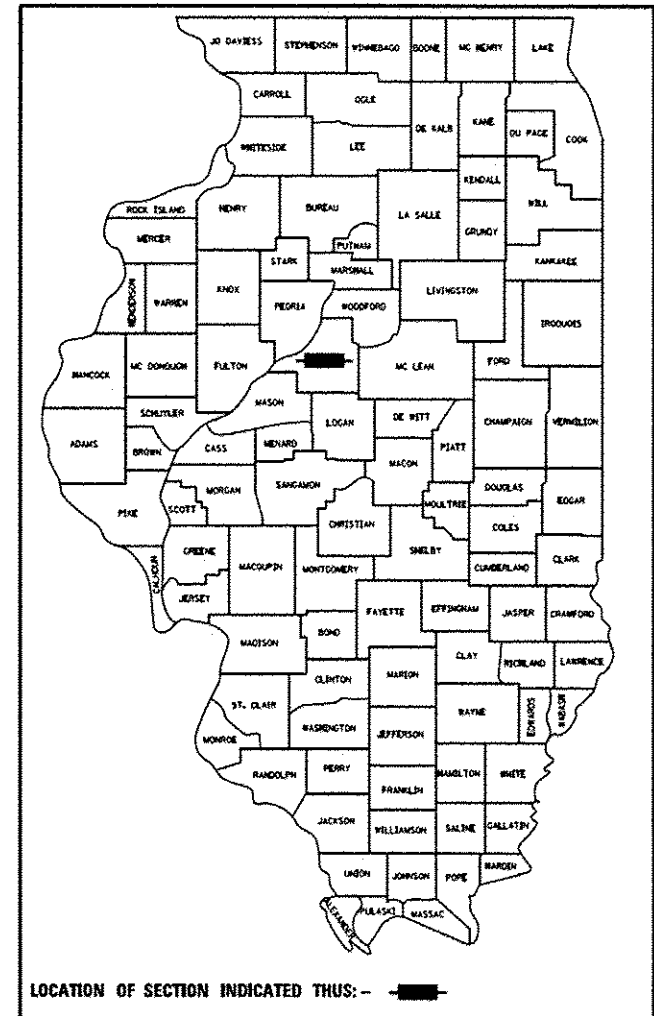
PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 693 (IL 9)
SECTION (119BR) BR
PROJECT F-0693(068)
STRUCTURE REPLACEMENT
TAZEWELL COUNTY

C-94-136-07
R03W

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	1
		ILLINOIS	CONTRACT NO. 68757	

*80+2 = 82
D-94-091-07



FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

- 001001-02
- 280001-07
- 420401-09
- 515001-03
- 630001-10
- 630301-06
- 631031-11
- 635006-03
- 635011-02
- 666001-01
- 701001-02
- 701006-04
- 701201-04
- 701301-04
- 701306-03
- 701311-03
- 701321-13
- 701326-04
- 701901-02
- 704001-07
- 780001-03
- 781001-03
- 601101-01

QC/QA CONCRETE
NPDES REQUIRED

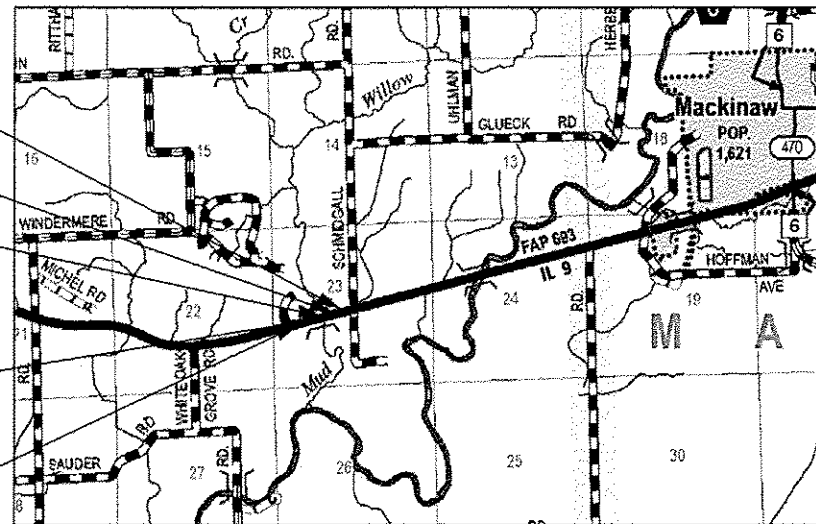
CONSTRUCTION ENDS
STA 658 + 00

END IMPROVEMENT
STA 657 + 00

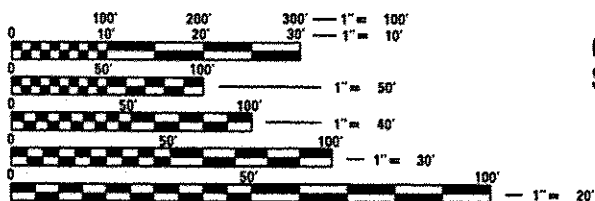
BRIDGE REPLACEMENT
SN 090-0062 (EXISTING)
SN 090-0178 (PROPOSED)
STA 648 + 55.75 TO
STA 650 + 44.25

START IMPROVEMENT
STA 643 + 00

CONSTRUCTION BEGINS
STA 642 + 00



N
LOCATION MAP
NOT TO SCALE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RICHARD DOTSON, P.E.
PROJECT MANAGER: KEVIN HORST, P.E.
CATALOG NO. 033596-00D
CONTRACT NO. 68757

GROSS LENGTH = 1,600 FT. = 0.303 MILE
NET LENGTH = 1,400 FT. = 0.265 MILE

GEORGE A. GHAREEB
062-047473
REGISTERED
PROFESSIONAL
ENGINEER
OF
ILLINOIS
GEORGE GHAREEB, P.E.
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062-047473 EXPIRES 11-30-13

TERRA
ENGINEERING LTD.
401 Main Street, Suite 1150
Peoria, IL 61602
(309)999-0123

FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL (NON-URBAN)
2011 ADT = 3,150
P.V = 92% S.U. = 3.2% M.U. = 4.8%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 22, 2013

Joseph E. Howley
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 10, 2013
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2013
Orfer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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GENERAL NOTES

INDEX OF SHEETS

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 28 PROPOSED GRADING PLAN
 29 SCOUR PROTECTION AND SEEDING PLAN
 30 PAVEMENT MARKING PLAN
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 77-80 MUD CREEK CROSS SECTIONS

1. SOIL REPORT AVAILABILITY
 ALL SOILS DATA COLLECTED AND PROCESSED FOR THE SOILS REPORT MADE IN CONJUNCTION WITH THE DESIGN OF THIS IMPROVEMENT IS ON FILE AT THE DISTRICT OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT HAS BEEN MADE AVAILABLE AND IS AWARE OF THE REPORT CONTENTS AND APPENDICES.
2. AVAILABILITY OF ELECTRONIC FILES
 MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.
3. UTILITIES - LOCATIONS/INFORMATION ON PLANS
 THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN, ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
4. PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM
 ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
5. COMMITMENTS
 THERE ARE NO COMMITMENTS.
6. TREE REMOVAL
 THE DISTRICT FOUR TREE COMMITTEE SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.
7. ENVIRONMENTAL REVIEWS
 PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.
 PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.
 ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.
 THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
 1. BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
 2. A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
 3. SIGNED PROPERTY OWNER AGREEMENT FORM D4 P10101
 4. COLOR PHOTOGRAPHS DEPICTING THE USE AREA
 5. BORROW AREA ENTRY AGREEMENT FORM D4 P10101
 PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

8. PAVEMENT STATION NUMBERS & PLACEMENT
 THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP. THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:
 INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)
 BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING
 LOCATION:
 - 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
 - MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
 - RAMPS - ALONG BASELINE EDGE OF PAVEMENT
 POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
 FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+XOO)", WHERE X REPRESENTS THE PAVEMENT STATION
 THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.
9. POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES
- | SURFACE TYPE | ESTIMATED TRUCK APPLICATION | RATE RESIDUAL RATE |
|--------------------------|------------------------------|--------------------|
| MILLED (HMA OR PCC) | 0.10 GAL/SY (0.00044 TON/SY) | 0.05 GAL/SY |
| EXISTING PAVEMENT | 0.05 GAL/SY (0.00022 TON/SY) | 0.025 GAL/SY |
| FOG COAT (BETWEEN LIFTS) | 0.05 GAL/SY (0.00022 TON/SY) | 0.025 GAL/SY |
- NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.
10. RIGHT-OF-WAY MARKERS
 WHEN INSTALLING RIGHT-OF-WAY MARKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.
11. ENGINEERS FIELD OFFICE
 ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E):
 ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.
12. BUTT JOINT CUTTING TIME RESTRICTION
 BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

MIXTURE TABLE

MIXTURE USE(S):	SURFACE COURSE	BINDER COURSES	TEMP PAVEMENT	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFTS)
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP% (MAX):**	15%	25%	25%	15%	25%
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	3.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR IL 12.5	IL 19.0	IL 19.0	IL 9.5 OR IL 12.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE D (DOLOMITE ONLY)	N/A	MIXTURE C	MIXTURE C	N/A

** NOTE: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

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#PENTRLL*

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#SYSPRINTER_NAME*

MAIL RT 9 OVER MUD CREEK\CIVIL\CADD Sheets\068757-01-1.ctb status of utilities

POTENTIAL UTILITY CONFLICT LIST

OWNER	ROUTE	OFFSET	STATION	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION	REMARKS
FRONTIER NORTH, INC.	IL 9	22' RT	644+00 - 656+00	BURIED CABLE	SLOPE BENCHING	RELOCATE	
FRONTIER NORTH, INC.	IL 9	28' RT	646+50 - 652+00	BURIED CABLE	SLOPE BENCHING	RELOCATE	
CORN BELT ENERGY CORPORATION	IL 9	35' RT	650+25	POWER POLE	RIPRAP/NEW STRUCTURE	RELOCATE	



USER NAME * TERRA
 PLOT SCALE * N/A
 PLOT DATE * 1/23/2013

DESIGNED - CL
 DRAWN - KJC
 CHECKED - LVA
 DATE - 01/25/13

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STATUS OF UTILITIES
 IL 9 OVER MUD CREEK

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	3
CONTRACT NO. 68757			ILLINOIS FED. AID PROJECT	

9/10

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80% FED. 20% STATE		100% STATE
				ROADWAY 0004 RURAL	BRIDGE 0011 SN 090-0178	MOWING 0004
20100500	TREE REMOVAL, ACRES	ACRE	1.00	1.00		
20200100	EARTH EXCAVATION	CU YD	4435	4435		
20200500	EARTH EXCAVATION (WIDENING)	CU YD	85	85		
20300100	CHANNEL EXCAVATION	CU YD	3730	3730		
20400800	FURNISHED EXCAVATION	CU YD	1440	1440		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	15333	15333		
* 25000200	SEEDING, CLASS 2	ACRE	1.25	1.25		
* 25000210	SEEDING, CLASS 2A	ACRE	2.00	2.00		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	283	283		
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	283	283		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	283	283		
* 25000750	MOWING	ACRE	1.50			1.50
* 25100115	MULCH, METHOD 2	ACRE	1.25	1.25		
* 25100630	EROSION CONTROL BLANKET	SO YD	9679	9679		

* SPECIALTY ITEM



USER NAME - NJ	DESIGNED - CL	REVISED -
PLOT SCALE - N/A	DRAWN - KJC	REVISED -
PLOT DATE - 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL 9 OVER MUD CREEK			
SCALE: N/A	SHEET NO. 1 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE. 693	SECTION (119BR) BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 4
CONTRACT NO. 68757			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80% FED. 20% STATE		100% STATE
				ROADWAY 0004 RURAL	BRIDGE 0011 SN 090-0178	MOWING 0004
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	950	950		
28000305	TEMPORARY DITCH CHECKS	FOOT	90	90		
28000400	PERIMETER EROSION BARRIER	FOOT	2999	2999		
28100107	STONE RIPRAP, CLASS A4	SO YD	3255		3255	
28200200	FILTER FABRIC	SO YD	3255		3255	
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	795	795		
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	3	3		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	348	348		
40600990	TEMPORARY RAMP	SO YD	457	457		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	984	984		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	255	255		
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	57	57		
44000100	PAVEMENT REMOVAL	SO YD	420	420		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	178	178		

* SPECIALTY ITEM



USER NAME : NI	DESIGNED - CL	REVISED -
PLOT SCALE : N/A	DRAWN - KJC	REVISED -
PLOT DATE : 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 9 OVER MUD CREEK

SCALE: N/A	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.
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F.A.P. RTE. 693	SECTION (119BR) BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 5
CONTRACT NO. 68757			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80% FED. 20% STATE		100% STATE
				ROADWAY	BRIDGE	MOWING
				0004 RURAL	0011 SN 090-0178	0004
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	415	415		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	21	21		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	12	12		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6		

* SPECIALTY ITEM



USER NAME * NI	DESIGNED - CL	REVISED -
PLLOT SCALE * N/A	DRAWN - KJC	REVISED -
PLLOT DATE * 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 9 OVER MUD CREEK

SCALE: N/A SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	8
			CONTRACT NO. 68757	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				80% FED. 20% STATE		100% STATE
				ROADWAY	BRIDGE	MOWING
				0004 RURAL	0011 SN 090-0178	0004
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1		
* 70300100	SHORT TERM PAVEMENT MARKING	FOOT	140	140		
* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5145	5145		
* 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	1813	1813		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1191	1191		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1191	1191		
* 70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5202	5202		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	17	17		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12		
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	48	48		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		

* SPECIALTY ITEM



USER NAME : NI
 PLOT SCALE : N/A
 PLOT DATE : 3/19/2013

DESIGNED - CL
 DRAWN - KJC
 CHECKED - LVA
 DATE - 03/20/13

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 IL 9 OVER MUD CREEK
 SCALE: N/A SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(1198R) BR	TAZEWELL	80	9
CONTRACT NO. 68757			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODES		
80% FED. 20% STATE		100% STATE
ROADWAY	BRIDGE	MOWING
0004	0011	0004
RURAL	SN 090-0178	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES		
				ROADWAY	BRIDGE	MOWING
78300100	PAVEMENT MARKING REMOVAL	SO FT	684	684		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	17	17		
X4400110	TEMPORARY PAVEMENT REMOVAL	SO YD	28	28		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	584	584		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	132		132	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	193	193		
Z0004638	PAVEMENT BREAKING	SO YD	932	932		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0026407	TEMPORARY SHEET PILING	SO FT	2363		2363	
Z0034105	MATERIAL TRANSFER DEVICE	TON	255	255		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	158		158	
Z0062456	TEMPORARY PAVEMENT	SO YD	376	376		

12 * SPECIALTY ITEM



USER NAME - NI
DESIGNED - CL
REVISIONS -
DRAWN - KJC
REVISIONS -
CHECKED - LVA
REVISIONS -
DATE - 03/20/13
REVISIONS -

DESIGNED - CL	REVISIONS -
DRAWN - KJC	REVISIONS -
CHECKED - LVA	REVISIONS -
DATE - 03/20/13	REVISIONS -

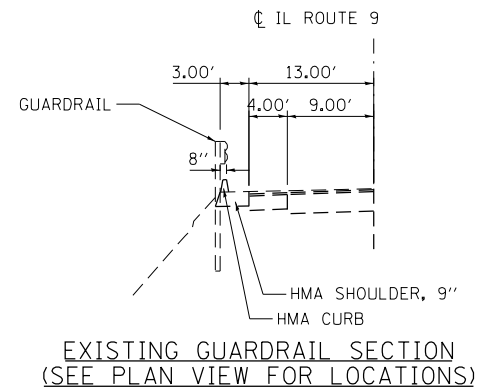
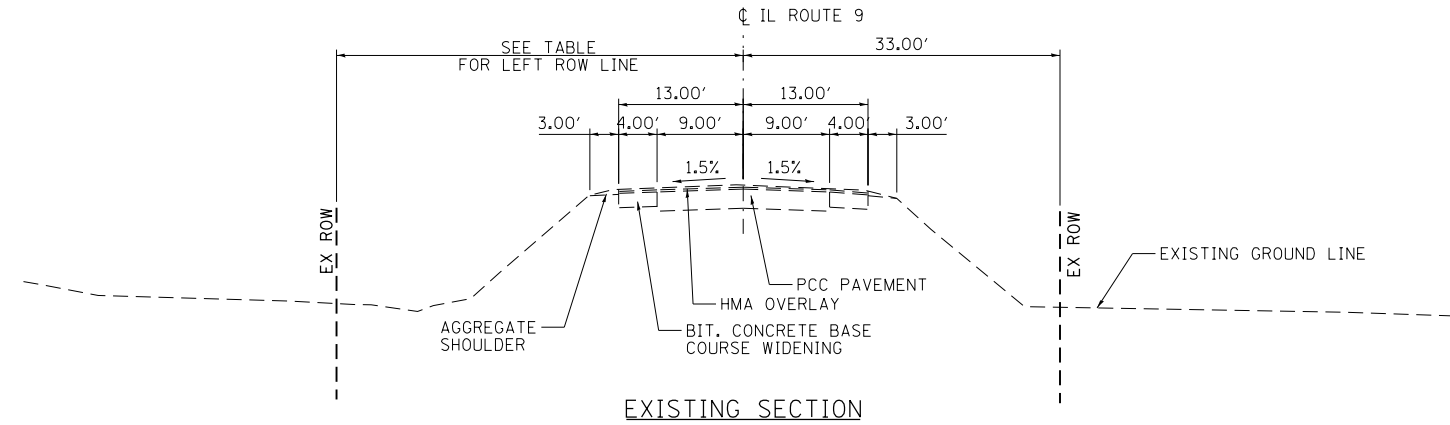
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
IL 9 OVER MUD CREEK	
SCALE: N/A	SHEET NO. 7 OF 7 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE. 693	SECTION 11198R1 BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 10
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

LEFT ROW LINE OFFSET

643+00.00	-	647+09.71	42.4'
647+09.71	-	648+09.71	TRANSITION 42.4' TO 46.3'
648+09.71	-	650+09.76	TRANSITION 46.3' TO 44.0'
650+09.76	-	657+05.00	TRANSITION 44.0' TO 41.43'



#PENTBL\$

#PLTDV\$

#SYSPRINTER_NAME\$

\\L:\RT_9_OVER_MUD_CREEK\CIVIL\CADD_Sheets\0468757-st-typocal_01.dgn



USER NAME = TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013	DATE - 01/25/13	REVISED -

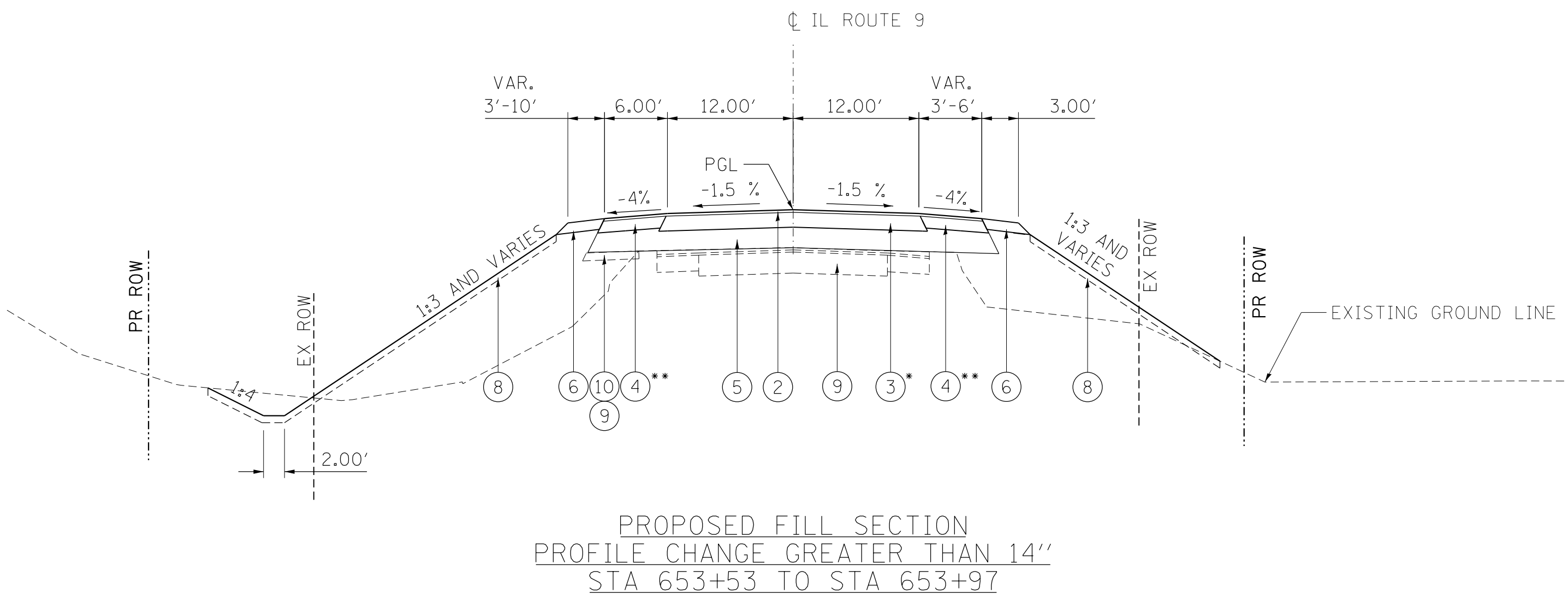
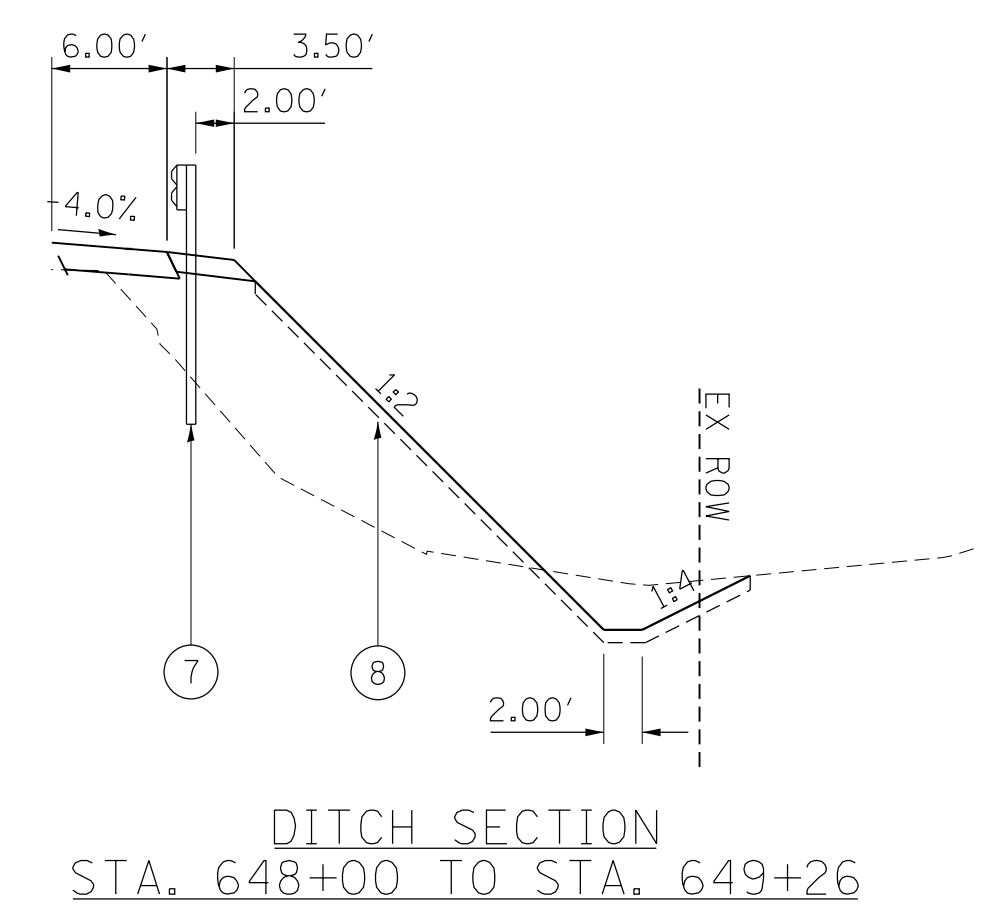
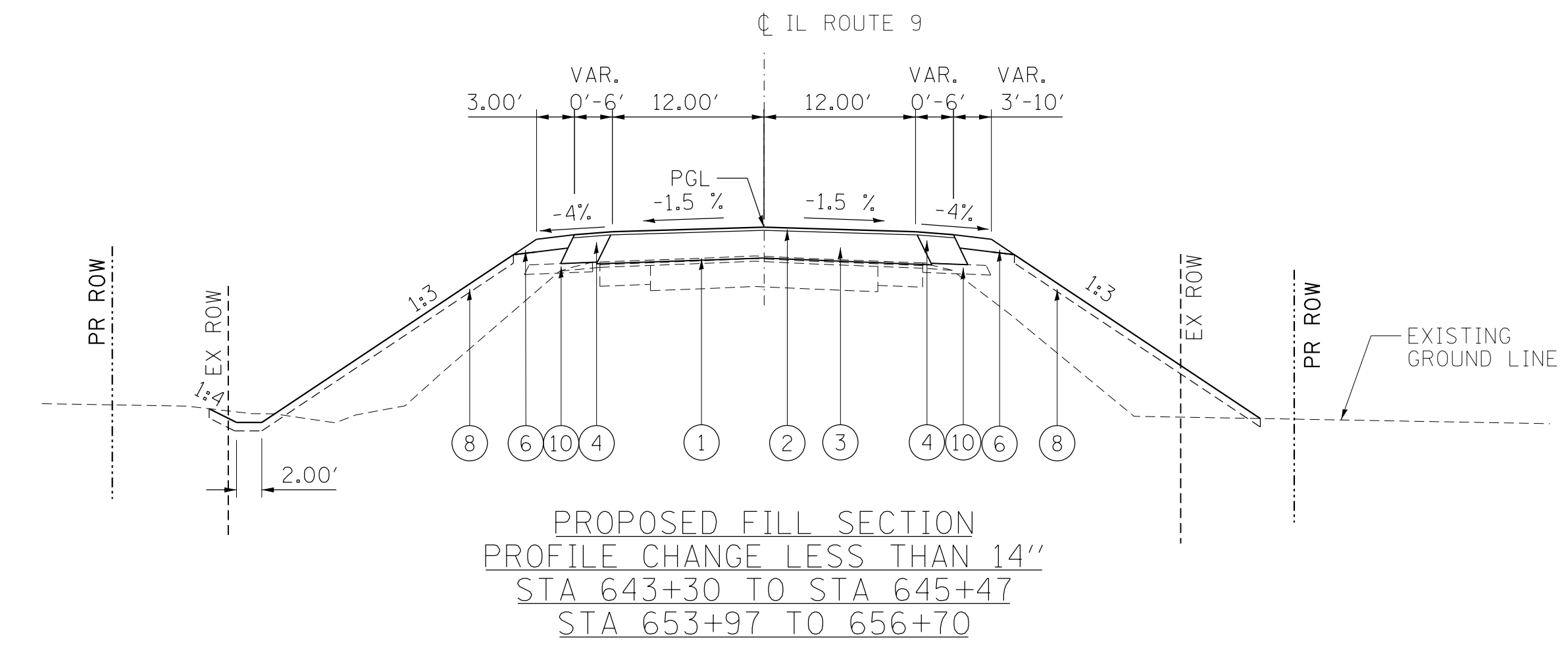
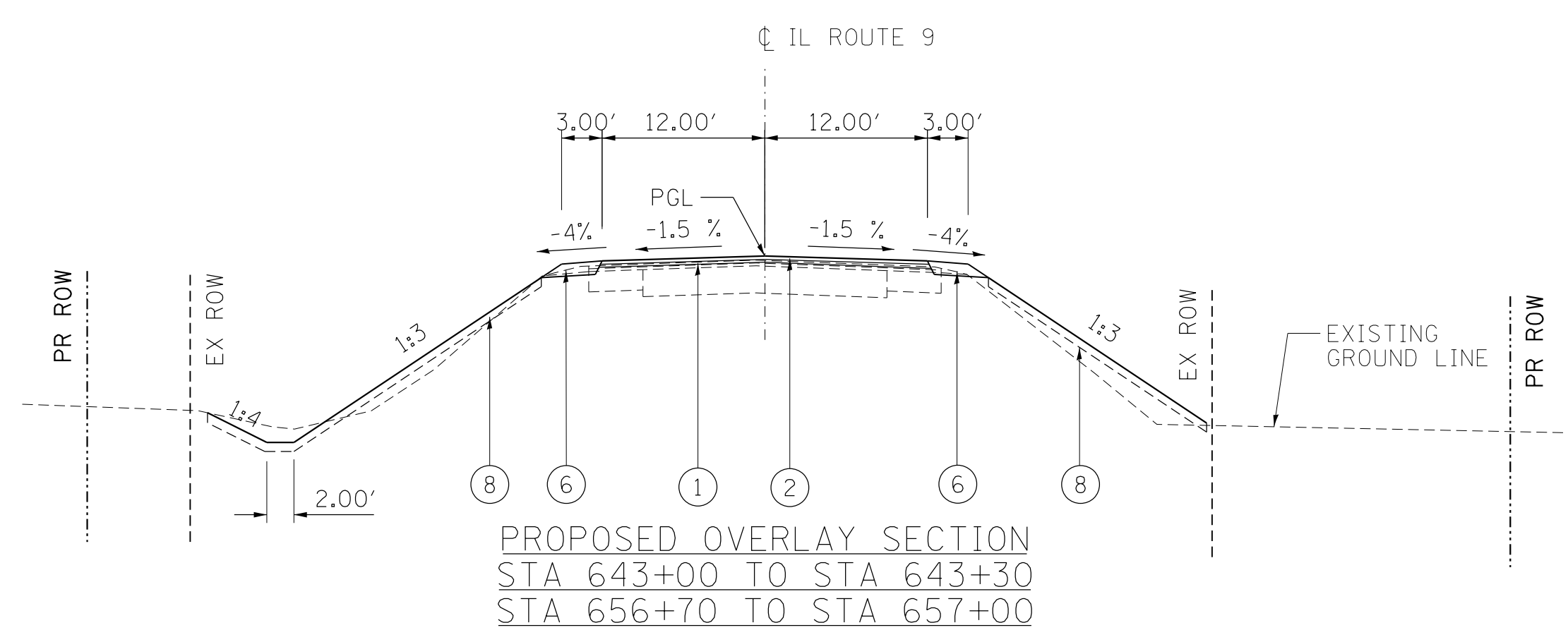
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
IL 9 OVER MUD CREEK

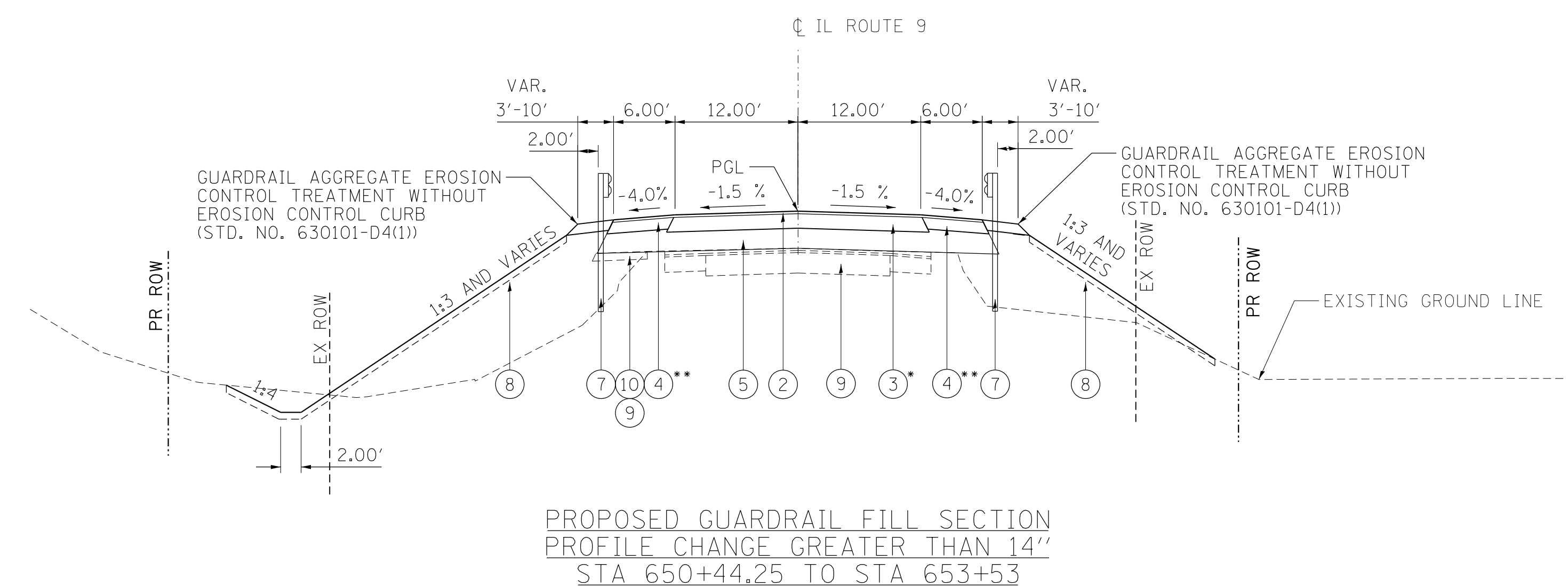
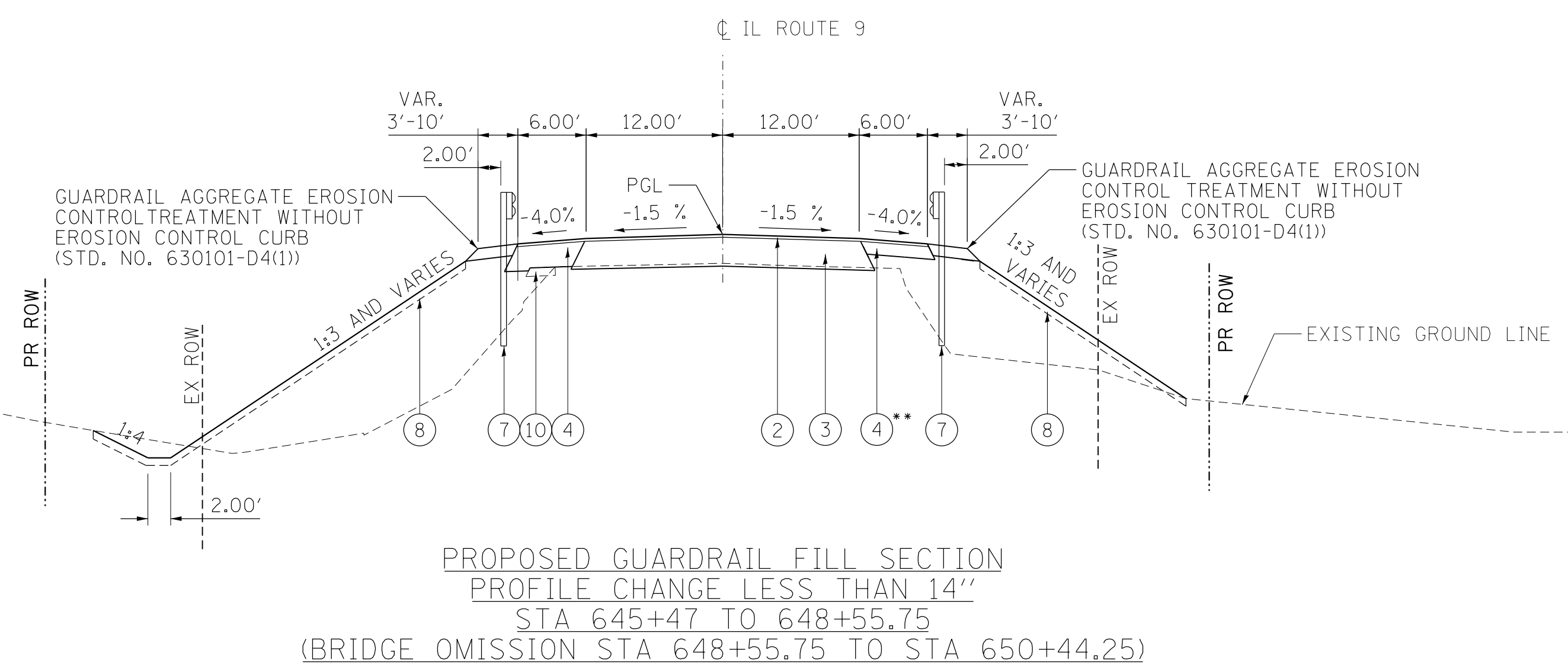
SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	11
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- ① HMA SURFACE REMOVAL, VARIABLE DEPTH
 - ② HMA SURFACE COURSE, 1.5"
 - ③ HMA BINDER COURSE (VARIABLE DEPTH)
 - ④ HMA SHOULDERS
 - ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B (VARIABLE DEPTH)
 - ⑥ AGGREGATE SHOULDER, TYPE B (6")
 - ⑦ STEEL PLATE BEAM GUARDRAIL, TYPE A
 - ⑧ TOPSOIL AND SEEDING
 - ⑨ PAVEMENT BREAKING
 - ⑩ TEMPORARY PAVEMENT



* NOTE: IN AREAS WHERE THE HMA BINDER COURSE IS CONSTRUCTED ON TOP OF SUB-BASE GRANULAR MATERIAL, THE BINDER THICKNESS SHALL BE 9 1/2".
 ** NOTE: TOTAL HMA SHOULDER THICKNESS IS 9" IN THIS SECTION.



USER NAME = TERRA	DESIGNED - CL	REVISED -
PLOT SCALE = N/A	DRAWN - KJC	REVISED -
PLOT DATE = 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS IL 9 OVER MUD CREEK	
SCALE: N/A	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE. 693	SECTION (119BR) BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 12
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

STA	STA	TREE REMOVAL, ACRES	TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 2	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	STONE RIPRAP, CLASS A4	FILTER FABRIC
		ACRE	SQ YD	ACRE	ACRE	POUND	POUND	POUND	ACRE	SQ YD	SQ YD
641+00	642+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
642+00	643+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
643+00	644+00	0.00	739.88	0.04	0.11	13.76	13.76	13.76	0.14	0.00	0.00
644+00	645+00	0.00	787.59	0.05	0.12	14.65	14.65	14.65	0.14	0.00	0.00
645+00	646+00	0.00	792.61	0.04	0.12	14.74	14.74	14.74	0.14	0.00	0.00
646+00	647+00	0.00	779.98	0.04	0.12	15.34	15.34	15.34	0.14	0.00	0.00
647+00	648+00	0.02	1,167.97	0.10	0.14	21.72	21.72	21.72	0.14	0.00	0.00
648+00	649+00	0.26	1,940.04	0.38	0.02	35.30	35.30	35.30	0.01	939.01	939.01
649+00	650+00	0.54	1,293.52	0.04	0.23	22.27	22.27	22.27	0.00	1,543.42	1,543.42
650+00	651+00	0.21	2,149.84	0.19	0.25	40.05	40.05	40.05	0.06	772.16	772.16
651+00	652+00	0.01	1,488.16	0.17	0.13	27.67	27.67	27.67	0.14	0.00	0.00
652+00	653+00	0.00	936.11	0.05	0.14	17.43	17.43	17.43	0.14	0.00	0.00
653+00	654+00	0.00	959.54	0.03	0.17	17.84	17.84	17.84	0.14	0.00	0.00
654+00	655+00	0.00	931.52	0.02	0.17	17.32	17.32	17.32	0.14	0.00	0.00
655+00	656+00	0.00	726.24	0.00	0.15	13.50	13.50	13.50	0.14	0.00	0.00
656+00	657+00	0.00	639.75	0.00	0.13	11.90	11.90	11.90	0.14	0.00	0.00
657+00	658+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
658+00	659+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		1.00	15,333	1.25	2.00	283	283	283	1.50	3,255	3,255

STA	STA	SUBBASE GRANULAR MATERIAL, TYPE B	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS	GUARDRAIL AGGREGATE EROSION CONTROL	MATERIAL TRANSFER DEVICE
		TON	TON	TON	TON	TON	TON	TON	TON
641+00	642+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
642+00	643+00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00
643+00	644+00	0.00	0.16	5.97	22.40	22.78	0.00	0.00	22.40
644+00	645+00	0.00	0.25	37.33	22.40	22.79	12.35	0.00	22.40
645+00	646+00	0.00	0.20	67.20	22.40	23.45	19.29	15.96	22.40
646+00	647+00	0.00	0.21	93.33	22.40	8.54	67.22	38.20	22.40
647+00	648+00	0.00	0.21	104.53	22.40	0.00	67.23	35.43	22.40
648+00	649+00	0.00	0.04	20.77	4.45	0.00	13.36	7.04	4.45
649+00	650+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650+00	651+00	70.42	0.07	28.02	4.42	0.00	13.27	7.00	4.42
651+00	652+00	301.81	0.34	141.86	22.40	0.00	67.21	35.43	22.40
652+00	653+00	296.11	0.34	141.86	22.40	8.54	67.20	38.20	22.40
653+00	654+00	126.70	0.32	141.86	22.40	23.30	57.88	16.05	22.40
654+00	655+00	0.00	0.19	126.93	22.40	22.79	37.05	0.00	22.40
655+00	656+00	0.00	0.24	44.80	22.40	22.78	18.67	0.00	22.40
656+00	657+00	0.00	0.16	5.97	22.40	22.78	0.00	0.00	22.40
657+00	658+00	0.00	0.00	16.33	0.00	0.00	0.00	0.00	0.00
658+00	659+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		795	3	984	255	178	441	193	255

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)						
ALIGNMENT:	IL RTE 9			LENGTH	WIDTH	AREA
STA		STA		FEET	FEET	SQ YD
650+74.25	TO	650+80.25		6.00	43.00	28.67
648+19.87	TO	648+25.87		6.00	43.00	28.67
				TOTAL		57



USER NAME = hl	DESIGNED - CL	REVISED -
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PLOT DATE = 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 9 OVER MUD CREEK

SCALE: N/A SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	13
CONTRACT NO. 68757			ILLINOIS FED. AID PROJECT	

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PAVEMENT REMOVAL

ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA
STA		STA	FEET	FEET	SQ YD
648+19.75	TO	648+72.48	52.73	28.18	165.10
649+94.37	TO	650+77.25	82.88	27.63	254.41
			TOTAL		420

PAVEMENT BREAKING

ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA
STA		STA	FEET	FEET	SQ YD
650+77.25	TO	653+97.00	319.75	26.22	931.50
			TOTAL		932

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA
STA		STA	FEET	FEET	SQ YD
643+00.00	TO	643+60.00	60.00	26.03	173.52
656+39.99	TO	657+00.01	60.02	26.10	174.04
			TOTAL		348

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA
STA		STA	FEET	FEET	SQ YD
655+44.02	TO	656+40.00	95.98	25.77	274.83
643+60.00	TO	644+66.46	106.46	26.16	309.48
			TOTAL		584

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

ALIGNMENT:	IL RTE 9		EACH
STA	OFFSET		
642+24.57	0.00		1
643+04.57	0.00		1
643+84.57	0.00		1
644+64.57	0.00		1
645+44.57	0.00		1
646+24.57	0.00		1
647+04.57	0.00		1
647+84.57	0.00		1
651+04.57	0.00		1
651+84.57	0.00		1
652+64.57	0.00		1
653+44.57	0.00		1
654+24.57	0.00		1
655+04.57	0.00		1
655+84.57	0.00		1
656+64.57	0.00		1
657+44.57	0.00		1
TOTAL			17

RAISED REFLECTIVE PAVEMENT MARKER

ALIGNMENT:	IL RTE 9		EACH
STA	OFFSET		
647+85.00	0.00		1
647+05.00	0.03	RT	1
646+25.00	0.05	RT	1
645+45.00	0.07	RT	1
644+65.00	0.10	RT	1
643+85.00	0.12	RT	1
643+05.00	0.15	RT	1
642+25.00	0.17	RT	1
651+10.24	0.00		1
651+90.24	0.00		1
652+70.24	0.00		1
653+50.24	0.00		1
654+30.24	0.00		1
655+10.24	0.00		1
655+90.24	0.02	LT	1
656+70.24	0.04	LT	1
657+50.24	0.07	LT	1
TOTAL			17

PAVEMENT MARKING REMOVAL

(4" SKIP DASH)						
ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA	
STA		STA	FEET	INCH	SQ FT	
642+00.00	TO	643+00.00	100.00	4.00	8.33	
657+00.01	TO	658+00.00	99.99	4.00	8.33	
			SUB TOTAL		17	
(4" SOLID)						
ALIGNMENT:	IL RTE 9		LENGTH	WIDTH	AREA	
STA		STA	FEET	INCH	SQ FT	
642+00.00	TO	645+00.00	300.00	4.00	100.00	
657+00.00	TO	658+00.00	100.00	4.00	33.33	
642+00.00	TO	658+00.00	1,600.00	4.00	533.33	
			SUB TOTAL		667	
			TOTAL		684	

MODIFIED URETHANE PAVEMENT MARKING - LINE 4"

STA	STA	FOOT
641+00	642+00	0.00
642+00	643+00	425.00
643+00	644+00	325.00
644+00	645+00	325.00
645+00	646+00	325.00
646+00	647+00	325.00
647+00	648+00	325.00
648+00	649+00	318.90
649+00	650+00	325.00
650+00	651+00	307.67
651+00	652+00	300.00
652+00	653+00	300.00
653+00	654+00	300.00
654+00	655+00	300.00
655+00	656+00	300.00
656+00	657+00	300.00
657+00	658+00	400.00
658+00	659+00	0.00
TOTAL		5,202



USER NAME = hl	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL 9 OVER MUD CREEK**

SCALE: N/A SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	14
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

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**GUARDRAIL
REMOVAL**

ALIGNMENT: STA	IL RTE 9 OFFSET			STA	OFFSET		LENGTH FOOT
647+74.74	17.31	LT	TO	648+50.59	16.77	LT	75.85
647+49.51	18.82	LT	TO	647+74.74	17.31	LT	25.27
647+49.75	18.75	RT	TO	647+75.54	16.95	RT	25.84
647+75.54	16.95	RT	TO	648+54.88	16.59	RT	79.35
650+11.83	16.57	RT	TO	650+91.47	16.77	RT	79.64
650+91.47	16.77	RT	TO	651+15.84	18.47	RT	24.43
650+91.71	16.69	LT	TO	651+16.38	18.45	LT	24.73
650+11.84	16.66	LT	TO	650+91.71	16.69	LT	79.87
						TOTAL	415

**GUARDRAIL
MARKERS, TYPE A**

ALIGNMENT: STA	IL RTE 9 OFFSET			STA	OFFSET		EACH
646+29.51	18.06	RT					1
647+09.51	18.04	RT					1
647+89.51	18.01	RT					1
646+65.87	18.00	LT					1
647+45.87	18.00	LT					1
648+25.87	18.00	LT					1
650+74.25	18.00	RT					1
651+54.25	18.00	RT					1
652+34.25	18.00	RT					1
651+10.49	18.00	LT					1
651+90.49	18.00	LT					1
652+70.49	18.00	LT					1
						TOTAL	12

**PERMANENT SURVEY
MARKERS, TYPE I**

ALIGNMENT: STA	IL RTE 9 OFFSET			EACH
644+50.00	0.00			1
654+50.00	0.00			1
649+50.00	0.00			1
			TOTAL	3

**FURNISHING AND
ERECTING RIGHT
OF WAY MARKERS**

ALIGNMENT: STA	IL RTE 9 OFFSET			EACH
643+00.00	42.40	LT		1
643+50.00	50.00	LT		1
645+00.00	50.00	LT		1
646+00.00	60.00	LT		1
647+25.00	60.00	LT		1
648+15.00	150.00	LT		1
650+70.00	150.00	LT		1
651+00.00	65.00	LT		1
654+00.00	65.00	LT		1
656+00.00	41.82	LT		1
657+00.00	50.00	RT		1
656+00.00	50.00	RT		1
654+00.00	65.00	RT		1
651+00.00	65.00	RT		1
650+65.00	101.00	RT		1
648+40.00	101.00	RT		1
648+00.00	60.00	RT		1
645+00.00	60.00	RT		1
643+00.00	50.00	RT		1
643+00.00	33.00	RT		1
657+00.00	33.00	RT		1
			TOTAL	21

**STEEL PLATE BEAM
GUARDRAIL, TYPE
A, 6 FOOT POSTS** **TRAFFIC BARRIER
TERMINAL, TYPE 6** **TRAFFIC BARRIER
TERMINAL, TYPE 1
(SPECIAL) FLARED** **TERMINAL MARKER
- DIRECT APPLIED**

ALIGNMENT: STA	IL RTE 9 OFFSET			STA	OFFSET		LENGTH FOOT	EACH	EACH	EACH
645+47.00	21.21	RT								1
645+48.13	21.21	RT	TO	645+83.57	18.00	RT			1	
645+83.57	18.00	RT	TO	647+82.12	18.00	RT	198.55			
647+82.12	18.00	RT	TO	648+25.87	18.00	RT		1		
646+22.00	21.62	LT								1
646+23.13	20.78	LT	TO	646+59.51	18.00	LT			1	
646+59.51	18.00	LT	TO	647+82.12	18.00	LT	122.61			
647+82.12	18.00	LT	TO	648+25.87	18.00	LT		1		
650+74.25	18.00	RT	TO	651+18.00	18.00	RT		1		
651+18.00	18.00	RT	TO	652+40.50	18.00	RT	122.50			
652+40.50	18.00	RT	TO	652+76.87	20.78	RT			1	
652+78.00	20.37	RT								1
650+74.25	18.00	LT	TO	651+18.00	18.00	LT		1		
651+18.00	18.00	LT	TO	653+15.34	18.00	LT	197.34			
653+15.34	18.00	LT	TO	653+51.87	21.21	LT			1	
653+53.00	21.62	LT								1
						TOTAL	650.0	4	4	4



USER NAME = hl	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL 9 OVER MUD CREEK**

SCALE: N/A SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	15
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

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IL 9 LOCATION				FOR INFORMATION ONLY					
STA	TO	STA	LENGTH FT	EARTH EXCAVATION CU YD	EARTH EXCAVATION (WIDENING) CU YD	CHANNEL EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	FURNISHED EXCAVATION CU YD
PRE STAGE									
642+50	TO	643+00	50	0.00	0.00	N/A	0.00	0.00	0.00
643+00	TO	643+50	50	0.00	0.00	N/A	0.00	0.00	0.00
643+50	TO	644+00	50	0.00	0.00	N/A	0.00	0.00	0.00
644+00	TO	644+50	50	8.50	1.84	N/A	7.76	21.35	13.59
644+50	TO	645+00	50	12.93	3.44	N/A	12.27	47.50	35.23
645+00	TO	645+50	50	14.01	3.22	N/A	12.92	59.09	46.17
645+50	TO	646+00	50	25.94	3.19	N/A	21.85	86.44	64.58
646+00	TO	646+50	50	28.86	3.19	N/A	24.03	107.79	83.75
646+50	TO	647+00	50	22.89	3.33	N/A	19.67	103.51	83.84
647+00	TO	647+50	50	10.39	3.51	N/A	10.42	49.21	38.79
647+50	TO	648+00	50	0.00	3.68	N/A	2.76	0.00	-2.76
648+00	TO	648+50	50	0.00	1.88	N/A	1.41	0.00	-1.41
648+50	TO	648+58	8	0.00	0.00	N/A	0.00	0.00	0.00
648+58	TO	650+42	184	0.00	7.17	N/A	5.38	0.00	-5.38
650+42	TO	650+50	8	0.00	0.64	N/A	0.48	0.00	-0.48
650+50	TO	651+00	50	0.00	3.91	N/A	2.93	0.00	-2.93
651+00	TO	651+50	50	0.21	4.02	N/A	3.17	48.34	45.17
651+50	TO	652+00	50	0.43	3.98	N/A	3.31	109.43	106.12
652+00	TO	652+50	50	1.12	3.93	N/A	3.78	122.85	119.07
652+50	TO	653+00	50	1.29	3.89	N/A	3.88	119.67	115.78
653+00	TO	653+50	50	0.70	3.88	N/A	3.44	134.81	131.37
653+50	TO	654+00	50	0.62	3.68	N/A	3.22	124.21	120.99
654+00	TO	654+50	50	0.56	3.35	N/A	2.93	95.24	92.31
654+50	TO	655+00	50	0.53	3.35	N/A	2.91	84.27	81.36
655+00	TO	655+50	50	0.27	1.71	N/A	1.49	36.33	34.85
655+50	TO	656+00	50	0.00	0.00	N/A	0.00	0.00	0.00
656+00	TO	656+50	50	0.00	0.00	N/A	0.00	0.00	0.00
656+50	TO	657+00	50	0.00	0.00	N/A	0.00	0.00	0.00
657+00	TO	657+50	50	0.00	0.00	N/A	0.00	0.00	0.00
SUBTOTALS			1500	129.24	70.78	N/A	150.02	1350.04	1200.02
STAGE 1									
642+50	TO	643+00	50	1.05	0.00	N/A	0.78	0.88	0.09
643+00	TO	643+50	50	1.75	0.00	N/A	1.31	4.97	3.66
643+50	TO	644+00	50	1.79	0.00	N/A	1.34	23.92	22.58
644+00	TO	644+50	50	1.31	1.83	N/A	2.35	44.31	41.96
644+50	TO	645+00	50	0.45	3.64	N/A	3.07	62.16	59.09
645+00	TO	645+50	50	0.87	1.81	N/A	2.01	126.60	124.59
645+50	TO	646+00	50	1.18	0.00	N/A	0.88	137.44	136.56
646+00	TO	646+50	50	1.13	0.00	N/A	0.85	87.43	86.58
646+50	TO	647+00	50	1.05	0.00	N/A	0.78	75.72	74.94
647+00	TO	647+50	50	1.30	0.00	N/A	0.97	73.44	72.47
647+50	TO	648+00	50	8.82	0.00	N/A	6.62	52.65	46.03
648+00	TO	648+50	50	71.38	0.00	N/A	53.53	28.67	-24.87
648+50	TO	648+58	8	22.89	0.00	N/A	17.17	7.02	-10.15
648+58	TO	650+42	184	421.88	0.00	N/A	316.41	182.14	-134.27
650+42	TO	650+50	8	11.63	0.00	N/A	8.72	5.92	-2.80
650+50	TO	651+00	50	31.07	0.00	N/A	23.31	93.27	69.96
651+00	TO	651+50	50	0.48	0.00	N/A	0.36	145.09	144.73
651+50	TO	652+00	50	0.47	0.00	N/A	0.35	136.41	136.05
652+00	TO	652+50	50	0.46	0.00	N/A	0.35	157.27	156.92
652+50	TO	653+00	50	0.46	0.00	N/A	0.35	175.81	175.46
653+00	TO	653+50	50	0.46	0.00	N/A	0.35	141.80	141.45
653+50	TO	654+00	50	0.53	0.00	N/A	0.40	101.77	101.37
654+00	TO	654+50	50	0.53	1.84	N/A	1.78	92.72	90.94
654+50	TO	655+00	50	0.45	3.63	N/A	3.06	81.31	78.25
655+00	TO	655+50	50	1.44	1.79	N/A	2.42	57.81	55.39
655+50	TO	656+00	50	2.68	0.00	N/A	2.01	37.56	35.55
656+00	TO	656+50	50	2.09	0.00	N/A	1.57	18.65	17.08
656+50	TO	657+00	50	2.12	0.00	N/A	1.59	4.15	2.56
657+00	TO	657+50	50	1.48	0.00	N/A	1.11	0.77	-0.34
SUBTOTALS			1500	593.20	14.54	N/A	455.80	2157.66	1701.85

IL 9 LOCATION				FOR INFORMATION ONLY					
STA	TO	STA	LENGTH FT	EARTH EXCAVATION CU YD	EARTH EXCAVATION (WIDENING) CU YD	CHANNEL EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	FURNISHED EXCAVATION CU YD
SUBTOTALS									
STAGE 2									
642+50	TO	643+00	50	16.86	N/A	N/A	12.65	0.00	-12.65
643+00	TO	643+50	50	29.13	N/A	N/A	21.85	0.00	-21.85
643+50	TO	644+00	50	23.99	N/A	N/A	17.99	14.47	-3.52
644+00	TO	644+50	50	12.14	N/A	N/A	9.10	14.47	5.37
644+50	TO	645+00	50	0.55	N/A	N/A	0.41	0.06	-0.34
645+00	TO	645+50	50	0.29	N/A	N/A	0.22	0.41	0.19
645+50	TO	646+00	50	0.47	N/A	N/A	0.35	2.37	2.02
646+00	TO	646+50	50	0.53	N/A	N/A	0.40	3.87	3.47
646+50	TO	647+00	50	0.32	N/A	N/A	0.24	3.12	2.88
647+00	TO	647+50	50	30.44	N/A	N/A	22.83	48.31	25.49
647+50	TO	648+00	50	120.19	N/A	N/A	90.14	89.74	-0.40
648+00	TO	648+50	50	268.64	N/A	N/A	201.48	87.53	-113.95
648+50	TO	648+58	8	61.51	N/A	N/A	46.13	16.32	-29.81
648+58	TO	650+42	184	2099.00	N/A	N/A	1574.25	416.07	-1158.18
650+42	TO	650+50	8	122.15	N/A	N/A	91.61	19.45	-72.16
650+50	TO	651+00	50	544.14	N/A	N/A	408.10	126.46	-281.64
651+00	TO	651+50	50	272.94	N/A	N/A	204.71	79.86	-124.85
651+50	TO	652+00	50	91.16	N/A	N/A	68.37	24.19	-44.18
652+00	TO	652+50	50	0.00	N/A	N/A	0.00	23.03	23.03
652+50	TO	653+00	50	0.00	N/A	N/A	0.00	19.25	19.25
653+00	TO	653+50	50	0.00	N/A	N/A	0.00	23.87	23.87
653+50	TO	654+00	50	0.00	N/A	N/A	0.00	19.24	19.24
654+00	TO	654+50	50	0.00	N/A	N/A	0.00	4.92	4.92
654+50	TO	655+00	50	0.04	N/A	N/A	0.03	1.34	1.31
655+00	TO	655+50	50	0.81	N/A	N/A	0.61	25.47	24.86
655+50	TO	656+00	50	1.75	N/A	N/A	1.31	36.53	35.22
656+00	TO	656+50	50	4.81	N/A	N/A	3.61	11.26	7.65
656+50	TO	657+00	50	6.23	N/A	N/A	4.67	0.01	-4.66
657+00	TO	657+50	50	2.39	N/A	N/A	1.79	0.00	-1.79
SUBTOTALS			1500	3710.47	0.00	N/A	2782.85	1111.63	-1671.23
MUD CREEK LOCATION									
38+82	TO	39+00	18	N/A	N/A	16.23	0.00	1.09	1.09
39+00	TO	39+25	25	N/A	N/A	120.19	0.00	1.50	1.50
39+25	TO	39+50	25	N/A	N/A	268.04	0.00	0.00	0.00
39+50	TO	39+75	25	N/A	N/A	354.26	0.00	1.62	1.62
39+75	TO	40+00	25	N/A	N/A	368.38	0.00	9.55	9.55
40+00	TO	40+25	25	N/A	N/A	321.22	0.00	24.12	24.12
40+25	TO	40+50	25	N/A	N/A	270.43	0.00	40.91	40.91
40+50	TO	40+75	25	N/A	N/A	323.03	0.00	48.91	48.91
40+75	TO	41+00	25	N/A	N/A	413.38	0.00	36.41	36.41
41+00	TO	41+25	25	N/A	N/A	452.22	0.00	12.30	12.30
41+25	TO	41+50	25	N/A	N/A	334.61	0.00	13.31	13.31
41+50	TO	41+75	25	N/A	N/A	168.13	0.00	15.25	15.25
41+75	TO	42+00	25	N/A	N/A	120.97	0.00	2.04	2.04
42+00	TO	42+25	25	N/A	N/A	110.93	0.00	0.02	0.02
42+25	TO	42+50	25	N/A	N/A	72.90	0.00	0.15	0.15
42+50	TO	42+65	15	N/A	N/A	14.19	0.00	0.09	0.09
SUBTOTALS			383	N/A	N/A	3729.10	0.00	207.25	207.25
GRAND TOTALS				4435	85	3730	3390	4825	1440

NOTE: THE MATERIAL FROM THE CHANNEL EXCAVATION IS ASSUMED TO BE UNSUITABLE MATERIAL FOR EMBANKMENT.



USER NAME = hl
 PLOT SCALE = N/A
 PLOT DATE = 3/19/2013

DESIGNED - CL
 DRAWN - KJC
 CHECKED - LVA
 DATE - 03/20/13

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
 IL 9 OVER MUD CREEK

SCALE: N/A SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	16
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

		MULCH, METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING		
STA	STA	(ACRE)	(SQ YD)	RATE (LBS/ACRE)	APPLICATIONS	(POUND)
641+00	642+00	0.00	0.00	100	3	0.00
642+00	643+00	0.00	0.00	100	3	0.00
643+00	644+00	0.04	530.06	100	3	45.86
644+00	645+00	0.05	563.06	100	3	48.82
645+00	646+00	0.04	578.25	100	3	49.13
646+00	647+00	0.04	580.03	100	3	48.35
647+00	648+00	0.10	665.77	100	3	72.39
648+00	649+00	0.38	83.09	100	3	120.25
649+00	650+00	0.04	1,106.97	100	3	80.18
650+00	651+00	0.19	1,216.53	100	3	133.25
651+00	652+00	0.17	642.76	100	3	92.24
652+00	653+00	0.05	695.21	100	3	58.02
653+00	654+00	0.03	808.67	100	3	59.48
654+00	655+00	0.02	844.80	100	3	57.74
655+00	656+00	0.00	724.28	100	3	45.02
656+00	657+00	0.00	639.75	100	3	39.65
657+00	658+00	0.00	0.00	100	3	0.00
658+00	659+00	0.00	0.00	100	3	0.00
TOTAL		1.25	9,679			950

LOCATION	TEMPORARY DITCH CHECKS (FOOT)	PERIMETER EROSION BARRIER (FOOT)
STA. 643+20, 35' LT	30	
STA. 643+87, 39' LT	30	
STA. 646+50, 50' LT	30	
STA. 643+00 TO STA. 649.21, RT		640
STA. 649+21, RT TO STA. 649+61, LT		375
STA. 649+56, RT TO STA. 650+09, LT		370
STA. 649+56 TO STA. 657+00, RT		760
STA. 649+85 TO STA. 657+00, LT		764
STA. 649+88 TO STA. 650+77, LT		90
TOTAL	90	2,999

NOTE: QUANTITIES FOR TEMPORARY DITCH CHECKS ARE FOR 3 INSTALLATIONS AT EACH LOCATION.



USER NAME = hl	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
IL 9 OVER MUD CREEK**

SCALE: N/A SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	17
			CONTRACT NO. 68757	
ILLINOIS FED. AID PROJECT				

LOCATION			TEMPORARY BRIDGE TRAFFIC SIGNALS (EACH)	TEMPORARY RUMBLE STRIPS (EACH)	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	BARRIER WALL MARKERS TYPE C (EACH)	IMPACT ATTENUATORS, TEMP (NON-REDIRECTIVE), TEST LVL 3 (EACH)	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LVL 3 (EACH)
STA	STA	OFFSET							
STAGE I									
625+26.00		RT		1					
630+26.00		RT		1					
635+26.00		RT		1					
642+76.00	646+73.00		1						
643+75.97		RT					1		
643+75.97	655+66.95				1190.98		48		
655+66.95		RT					1		
664+23.00		LT		1					
669+23.00		LT		1					
674+23.00		LT		1					
STAGE II									
643+75.97		LT							1
643+75.97	655+66.95					1190.98			
655+66.95		LT							1
TOTAL			1	6	1191	1191	48	2	2

LOCATION			PROPERTIES		SHORT TERM PAVEMENT MARKING (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 4" (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 24" (FOOT)	WORK ZONE PAVEMENT MARKING - REMOVAL (SQ FT)
STA	STA	OFFSET	TYPE	COLOR				
STAGE I								
642+26.00		RT	SOLID	WHITE			12	24
642+26.00	644+40.00	CL	SKIP-DASH	YELLOW				
642+36.00	656+63.00	RT	SOLID	WHITE		1,427		476
643+92.00	655+51.00	LT	SOLID	WHITE				
643+92.00	655+51.00	LT	SOLID	WHITE		1,159		387
655+00.00	657+00.00	CL	SKIP-DASH	YELLOW				
657+23.00		LT	SOLID	WHITE			12	24
STAGE II								
642+26.00		RT	SOLID	WHITE				24
642+86.00	657+13.00	LT	SOLID	WHITE		1,427		476
644+07.00	645+15.00	RT	SOLID	WHITE				
644+07.00	655+39.00	RT	SOLID	WHITE		1,132		378
654+28.00	655+39.00	RT	SOLID	WHITE				
657+23.00		LT	SOLID	WHITE				24
STAGE III								
643+00.00	657+00.00	CL	DOTTED	YELLOW	140			
TOTAL					140	5,145	24	1,813

LOCATION			PROPERTIES		TEMPORARY RAMP (SOYD)	TEMPORARY PAVEMENT (SOYD)	TEMPORARY PAVEMENT REMOVAL (SOYD)
STA	STA	OFFSET	LENGTH	WIDTH			
PRE-STAGE							
644+10.00	644+22.00	LT	12.00	1.00			
644+22.00	644+40.00	LT	18.00	2.00			2
644+40.00	648+50.00	LT	410.00	3.00			4
650+16.00	655+03.00	LT	487.00	3.00			137
655+03.00	655+23.00	LT	20.00	2.00			163
655+23.00	655+35.00	LT	12.00	1.00			5
							2
STAGE I							
644+10.00	644+22.00	RT	12.00	1.00			
644+22.00	644+40.00	RT	18.00	2.00			2
644+40.00	645+15.00	RT	75.00	3.00			4
645+00.00	645+15.00	RT	15.00	15.00	25		25
645+10.00	645+15.00	RT	5.00	15.00	8		
647+89.87	648+19.87	RT	30.00	15.00	50		
648+14.87	648+19.87	RT	5.00	15.00	8		
650+80.25	651+17.25	RT	37.00	15.00	62		
650+80.25	650+85.25	RT	5.00	15.00	8		
654+28.00	654+63.00	RT	35.00	15.00	58		
654+28.00	654+33.00	RT	5.00	15.00	8		
654+28.00	655+03.00	RT	75.00	3.00			25
655+03.00	655+22.00	RT	19.00	2.00			5
655+22.00	655+35.00	RT	13.00	1.00			2
STAGE II							
645+00.00	645+15.00	LT	15.00	15.00	25		
645+10.00	645+15.00	LT	5.00	15.00	8		
647+89.87	648+19.87	LT	30.00	15.00	50		
648+14.87	648+19.87	LT	5.00	15.00	8		
648+26.00	648+50.00	LT	24.00	3.00			8
650+16.00	650+74.00	LT	58.00	3.00			20
650+80.25	651+17.25	LT	37.00	15.00	62		
650+80.25	650+85.25	LT	5.00	15.00	8		
654+28.00	654+63.00	LT	35.00	15.00	58		
654+28.00	654+33.00	LT	5.00	15.00	8		
TOTAL					457	376	28



USER NAME = hl	DESIGNED - CL	REVISED -
PLOT SCALE = N/A	DRAWN - KJC	REVISED -
PLOT DATE = 3/19/2013	CHECKED - LVA	REVISED -
	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES IL 9 OVER MUD CREEK		
SCALE: N/A	SHEET NO. 6 OF 6 SHEETS	STA. TO STA.

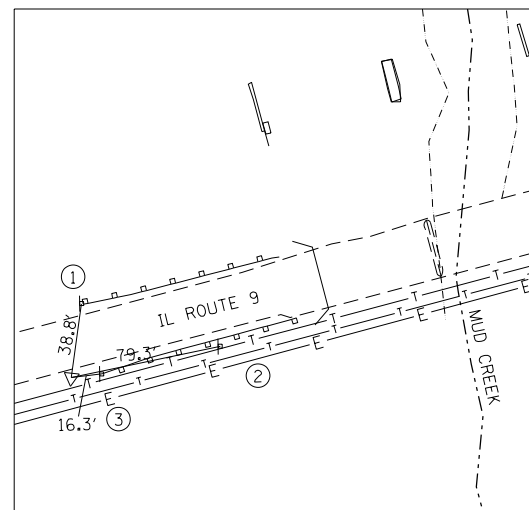
F.A.P. RTE. 693	SECTION (119BR) BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 18
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

#PENTBLLS

#PLTDVRS

#SYSPRINTER_NAME

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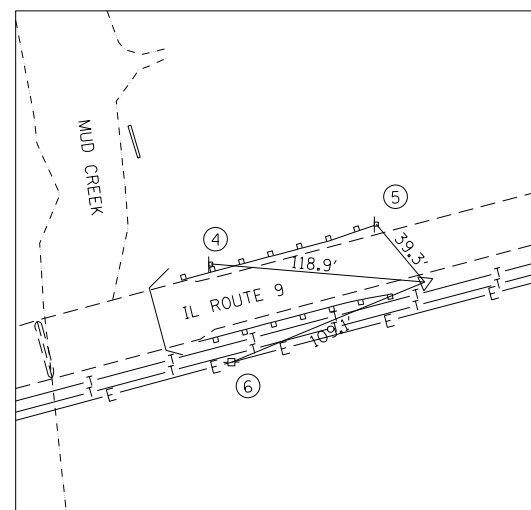


CONTROL POINT #1002

CONTROL POINT 1002 IS AN IRON ROD LOCATED ON THE SOUTH SHOULDER OF IL ROUTE 9 WEST OF THE MUD CREEK BRIDGE.

N = 1403543.27 STA. 647+33.64
E = 2505589.52 16.48' RT

1. SIGN BY NORTH GUARDRAIL
2. SIGN ON SOUTH SHOULDER OF IL 9
3. SIGN BY SOUTH GUARDRAIL

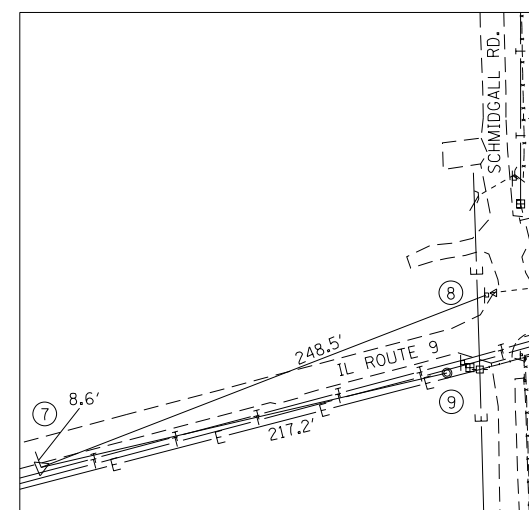


CONTROL POINT #1006

CONTROL POINT #1006 IS AN IRON ROD LOCATED ON THE SOUTH SHOULDER OF IL ROUTE 9 EAST OF THE MUD CREEK BRIDGE.

N = 1403644.25 STA. 651+34.17
E = 2505977.12 16.82' RT

4. SIGN ON NORTH SHOULDER
5. SIGN BY NORTH GUARDRAIL
6. ELECTRIC POWER POLE ON SOUTH SIDE OF IL 9

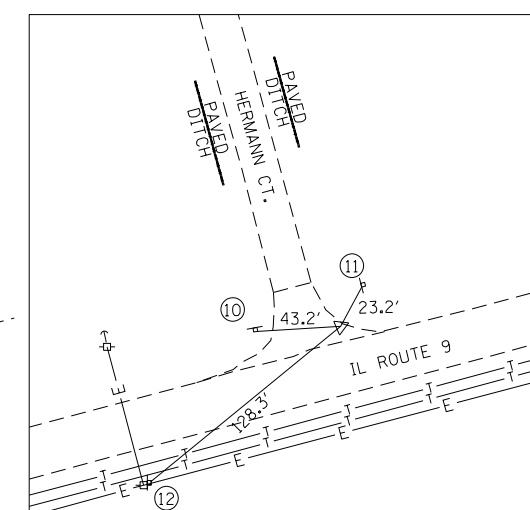


CONTROL POINT #1007

CONTROL POINT #1007 IS AN IRON ROD LOCATED ON THE SOUTH SHOULDER OF IL ROUTE 9 APPROXIMATELY 497' WEST OF THE CENTER LINE OF SCHMIDGALL ROAD.

N = 1403745.44 STA. 655+34.91
E = 2506364.87 16.93' RT

7. TO CENTERLINE OF IL 9
8. SIGN AT NW INT. OF SCHMIDGALL AND IL 9
9. MANHOLE NEAR SW INT. OF SCHMIDGALL AND IL 9



CONTROL POINT #1001

CONTROL POINT #1001 IS A MAG NAIL ON THE EAST CORNER OF THE INTERSECTION OF IL ROUTE 9 AND HERMANN CT.

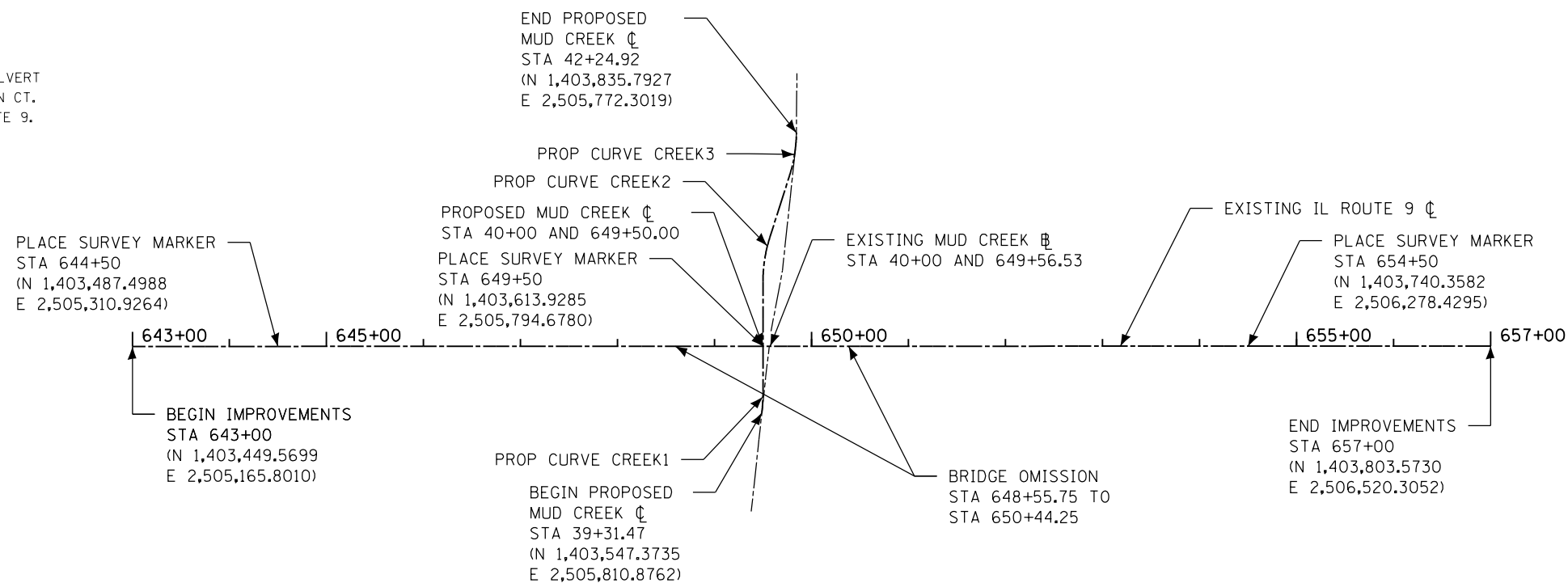
N = 1403334.91 STA. 637+61.94
E = 2504639.61 21.78' LT

10. SIGN AT WEST SIDE OF INT. OF HERMANN AND IL 9
11. SIGN ON EAST SIDE OF INT. OF HERMANN AND IL 9
12. SIGN NEXT TO POWER POLE WEST OF HERMANN ON SOUTH SIDE OF IL 9



BENCHMARK NUMBER 1
U.S. COAST AND GEODETIC SURVEY BRASS DISK SET IN TOP OF THE SOUTH WEST WING WALL OF THE STATE ROUTE 9 BRIDGE OVER MUD CREEK.
ELEVATION 578.58'

BENCHMARK NUMBER 2
CHISELED CROSS ON TOP OF THE 15' CULVERT LOCATED ON THE EAST SIDE OF HERMANN CT. 385' NORTH OF THE C.L. OF STATE ROUTE 9.
ELEVATION 580.43'



PROP. CURVE CREEK1 PI STA. = 39+42.24 Δ = 6° 09' 48" (LT) D = 28° 38' 52" R = 200.00' T = 10.77' L = 21.51' E = 0.29' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA. = 39+31.47 P.T. STA. = 39+52.98	PROP. CURVE CREEK3 PI STA. = 42+02.71 Δ = 17° 05' 35" (LT) D = 38° 11' 50" R = 150.00' T = 22.54' L = 44.75' E = 1.68' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA. = 41+80.17 P.T. STA. = 42+24.92
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PROP. CURVE CREEK2
PI STA. = 40+90.00
Δ = 17° 37' 37" (RT)
D = 38° 11' 50"
R = 150.00'
T = 23.26'
L = 46.15'
E = 1.79'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 40+66.74
P.T. STA. = 41+12.89



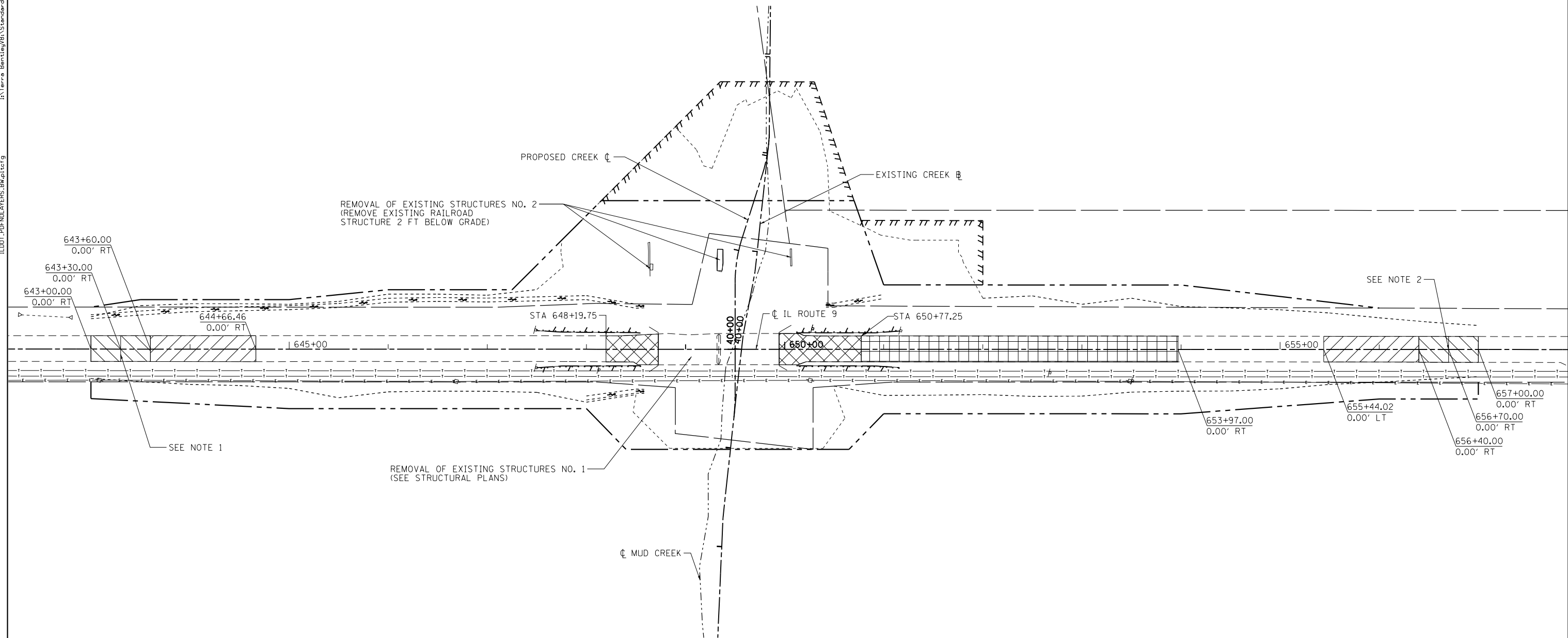
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PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013	DATE - 01/25/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY TIE SHEET
IL 9 OVER MUD CREEK

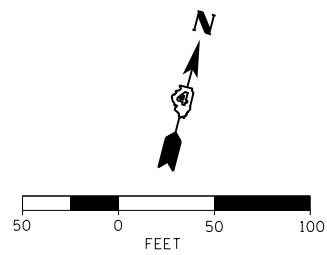
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	19
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



- NOTES**
1. A BUTT JOINT SHALL BE PLACED FOR THE BINDER COURSE FROM STATION 643+30 TO 643+60 AT A 2.25 INCH DEPTH BELOW THE PROPOSED SURFACE COURSE.
 2. A BUTT JOINT SHALL BE PLACED FOR THE BINDER COURSE FROM STATION 656+40 TO 656+70 AT A 2.25 INCH DEPTH BELOW THE PROPOSED SURFACE COURSE.

LEGEND	
	EX. EDGE OF TREES
	EX. AERIAL ELECTRIC LINE
	EX. UNDERGROUND PHONE
	EX. GUARDRAIL
	EX. FENCE LINE
	EX. MANHOLE
	EX. INLET
	EX. HEADWALL
	EX. TREE
	EX. ROW MARKER
	EX. SIGN
	EX. POLE
	EX. GUYWIRE
	EX. UTILITY BOX
	GUARDRAIL REMOVAL
	HMA SURFACE REMOVAL - BUTT JOINT
	HMA SURFACE REMOVAL, VARIABLE DEPTH
	PAVEMENT REMOVAL
	PAVEMENT BREAKING



USER NAME = hl	DESIGNED - CL	REVISED -
DRAWN - KJC	REVISIONS -	
PLOT SCALE = 1"=50'	CHECKED - LVA	REVISED -
PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

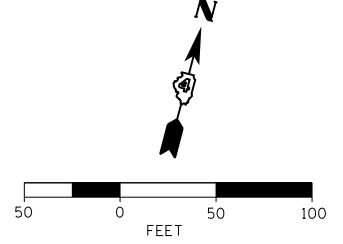
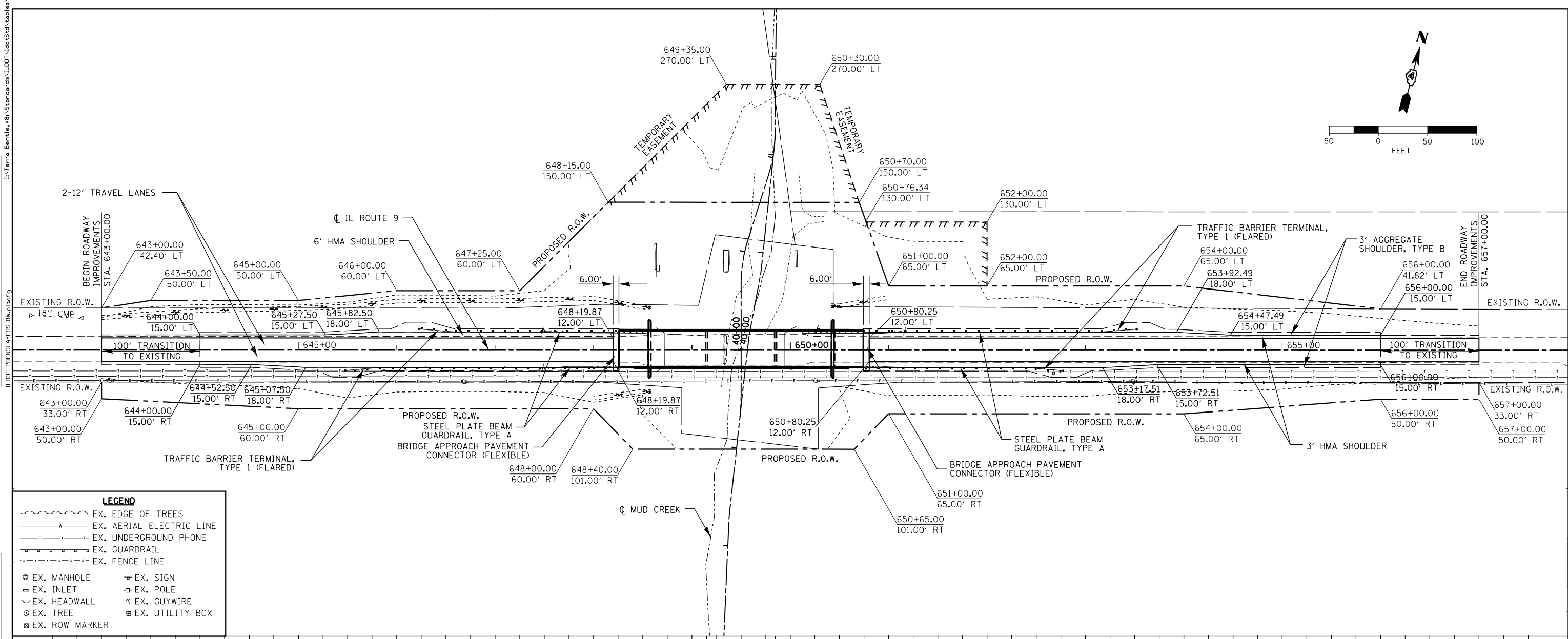
**REMOVAL PLAN
IL 9 OVER MUD CREEK**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 643+00.00 TO STA. 657+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	20
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

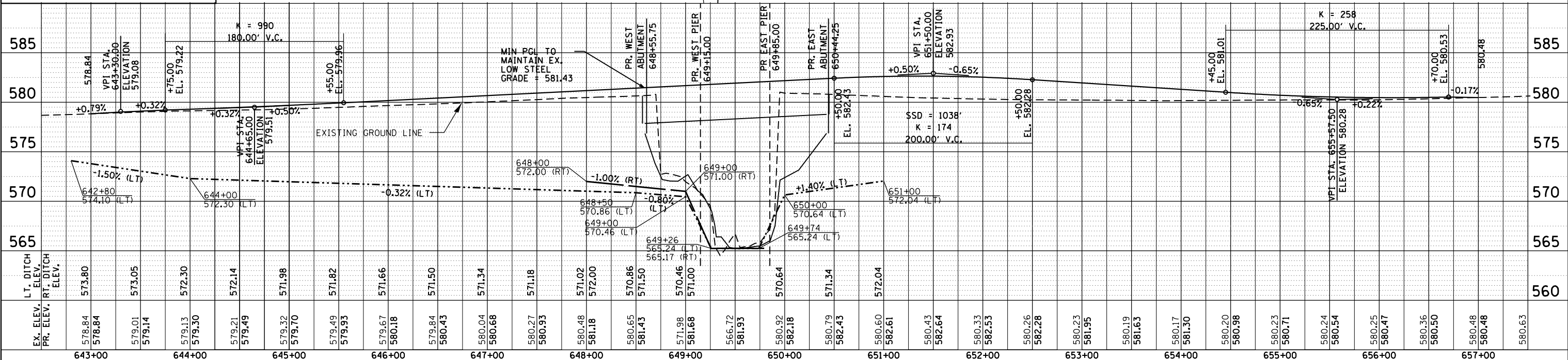
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NOTE BOOK NO.	
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NO.	

DATE	
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PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
BY	
NOTE BOOK NO.	
FILE NAME	
NO.	



LEGEND

- EX. EDGE OF TREES
- - - EX. AERIAL ELECTRIC LINE
- EX. UNDERGROUND PHONE
- ||| EX. GUARDRAIL
- · - EX. FENCE LINE
- EX. MANHOLE
- EX. INLET
- ∖ EX. HEADWALL
- ⊙ EX. TREE
- ⊠ EX. ROW MARKER
- ✕ EX. SIGN
- ⊕ EX. POLE
- ∧ EX. GUYWIRE
- ⊞ EX. UTILITY BOX



LT. DITCH ELEV.	573.80	573.05	572.30	572.14	571.98	571.82	571.66	571.50	571.34	571.18	571.02	570.86	570.70	570.54	570.38	570.22	570.06	569.90	569.74	569.58	569.42	569.26	569.10	568.94	568.78	568.62	568.46	568.30	568.14	567.98	567.82	567.66	567.50	567.34	567.18	567.02	566.86	566.70	566.54	566.38	566.22	566.06	565.90	565.74	565.58	565.42	565.26	565.10	564.94	564.78	564.62	564.46	564.30	564.14	563.98	563.82	563.66	563.50	563.34	563.18	563.02	562.86	562.70	562.54	562.38	562.22	562.06	561.90	561.74	561.58	561.42	561.26	561.10	560.94	560.78	560.62	560.46	560.30	560.14	560.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
RT. DITCH ELEV.	573.80	573.05	572.30	572.14	571.98	571.82	571.66	571.50	571.34	571.18	571.02	570.86	570.70	570.54	570.38	570.22	570.06	569.90	569.74	569.58	569.42	569.26	569.10	568.94	568.78	568.62	568.46	568.30	568.14	567.98	567.82	567.66	567.50	567.34	567.18	567.02	566.86	566.70	566.54	566.38	566.22	566.06	565.90	565.74	565.58	565.42	565.26	565.10	564.94	564.78	564.62	564.46	564.30	564.14	563.98	563.82	563.66	563.50	563.34	563.18	563.02	562.86	562.70	562.54	562.38	562.22	562.06	561.90	561.74	561.58	561.42	561.26	561.10	560.94	560.78	560.62	560.46	560.30	560.14	560.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
EX. ELEV.	578.84	579.01	579.13	579.21	579.32	579.49	579.67	579.84	580.04	580.27	580.48	580.65	580.79	580.92	581.18	581.34	581.50	581.66	581.82	581.98	582.18	582.33	582.43	582.53	582.64	582.72	582.82	582.92	583.03	583.13	583.23	583.33	583.43	583.53	583.63	583.73	583.83	583.93	584.03	584.13	584.23	584.33	584.43	584.53	584.63	584.73	584.83	584.93	585.03	585.13	585.23	585.33	585.43	585.53	585.63	585.73	585.83	585.93	586.03	586.13	586.23	586.33	586.43	586.53	586.63	586.73	586.83	586.93	587.03	587.13	587.23	587.33	587.43	587.53	587.63	587.73	587.83	587.93	588.03	588.13	588.23	588.33	588.43	588.53	588.63	588.73	588.83	588.93	589.03	589.13	589.23	589.33	589.43	589.53	589.63	589.73	589.83	589.93	590.03	590.13	590.23	590.33	590.43	590.53	590.63	590.73	590.83	590.93	591.03	591.13	591.23	591.33	591.43	591.53	591.63	591.73	591.83	591.93	592.03	592.13	592.23	592.33	592.43	592.53	592.63	592.73	592.83	592.93	593.03	593.13	593.23	593.33	593.43	593.53	593.63	593.73	593.83	593.93	594.03	594.13	594.23	594.33	594.43	594.53	594.63	594.73	594.83	594.93	595.03	595.13	595.23	595.33	595.43	595.53	595.63	595.73	595.83	595.93	596.03	596.13	596.23	596.33	596.43	596.53	596.63	596.73	596.83	596.93	597.03	597.13	597.23	597.33	597.43	597.53	597.63	597.73	597.83	597.93	598.03	598.13	598.23	598.33	598.43	598.53	598.63	598.73	598.83	598.93	599.03	599.13	599.23	599.33	599.43	599.53	599.63	599.73	599.83	599.93	600.03	600.13	600.23	600.33	600.43	600.53	600.63	600.73	600.83	600.93	601.03	601.13	601.23	601.33	601.43	601.53	601.63	601.73	601.83	601.93	602.03	602.13	602.23	602.33	602.43	602.53	602.63	602.73	602.83	602.93	603.03	603.13	603.23	603.33	603.43	603.53	603.63	603.73	603.83	603.93	604.03	604.13	604.23	604.33	604.43	604.53	604.63	604.73	604.83	604.93	605.03	605.13	605.23	605.33	605.43	605.53	605.63	605.73	605.83	605.93	606.03	606.13	606.23	606.33	606.43	606.53	606.63	606.73	606.83	606.93	607.03	607.13	607.23	607.33	607.43	607.53	607.63	607.73	607.83	607.93	608.03	608.13	608.23	608.33	608.43	608.53	608.63	608.73	608.83	608.93	609.03	609.13	609.23	609.33	609.43	609.53	609.63	609.73	609.83	609.93	610.03	610.13	610.23	610.33	610.43	610.53	610.63	610.73	610.83	610.93	611.03	611.13	611.23	611.33	611.43	611.53	611.63	611.73	611.83	611.93	612.03	612.13	612.23	612.33	612.43	612.53	612.63	612.73	612.83	612.93	613.03	613.13	613.23	613.33	613.43	613.53	613.63	613.73	613.83	613.93	614.03	614.13	614.23	614.33	614.43	614.53	614.63	614.73	614.83	614.93	615.03	615.13	615.23	615.33	615.43	615.53	615.63	615.73	615.83	615.93	616.03	616.13	616.23	616.33	616.43	616.53	616.63	616.73	616.83	616.93	617.03	617.13	617.23	617.33	617.43	617.53	617.63	617.73	617.83	617.93	618.03	618.13	618.23	618.33	618.43	618.53	618.63	618.73	618.83	618.93	619.03	619.13	619.23	619.33	619.43	619.53	619.63	619.73	619.83	619.93	620.03	620.13	620.23	620.33	620.43	620.53	620.63	620.73	620.83	620.93	621.03	621.13	621.23	621.33	621.43	621.53	621.63	621.73	621.83	621.93	622.03	622.13	622.23	622.33	622.43	622.53	622.63	622.73	622.83	622.93	623.03	623.13	623.23	623.33	623.43	623.53	623.63	623.73	623.83	623.93	624.03	624.13	624.23	624.33	624.43	624.53	624.63	624.73	624.83	624.93	625.03	625.13	625.23	625.33	625.43	625.53	625.63	625.73	625.83	625.93	626.03	626.13	626.23	626.33	626.43	626.53	626.63	626.73	626.83	626.93	627.03	627.13	627.23	627.33	627.43	627.53	627.63	627.73	627.83	627.93	628.03	628.13	628.23	628.33	628.43	628.53	628.63	628.73	628.83	628.93	629.03	629.13	629.23	629.33	629.43	629.53	629.63	629.73	629.83	629.93	630.03	630.13	630.23	630.33	630.43	630.53	630.63	630.73	630.83	630.93	631.03	631.13	631.23	631.33	631.43	631.53	631.63	631.73	631.83	631.93	632.03	632.13	632.23	632.33	632.43	632.53	632.63	632.73	632.83	632.93	633.03	633.13	633.23	633.33	633.43	633.53	633.63	633.73	633.83	633.93	634.03	634.13	634.23	634.33	634.43	634.53	634.63	634.73	634.83	634.93	635.03	635.13	635.23	635.33	635.43	635.53	635.63	635.73	635.83	635.93	636.03	636.13	636.23	636.33	636.43	636.53	636.63	636.73	636.83	636.93	637.03	637.13	637.23	637.33	637.43	637.53	637.63	637.73	637.83	637.93	638.03	638.13	638.23	638.33	638.43	638.53	638.63	638.73	638.83	638.93	639.03	639.13	639.23	639.33	639.43	639.53	639.63	639.73	639.83	639.93	640.03	640.13	640.23	640.33	640.43	640.53	640.63	640.73	640.83	640.93	641.03	641.13	641.23	641.33	641.43	641.53	641.63	641.73	641.83	641.93	642.03	642.13	642.23	642.33	642.43	642.53	642.63	642.73	642.83	642.93	643.03	643.13	643.23	643.33	643.43	643.53	643.63	643.73	643.83	643.93	644.03	644.13	644.23	644.33	644.43	644.53	644.63	644.73	644.83	644.93	645.03	645.13	645.23	645.33	645.43	645.53	645.63	645.73	645.83	645.93	646.03	646.13	646.23	646.33	646.43	646.53	646.63	646.73	646.83	646.93	647.03	647.13	647.23	647.33	647.43	647.53	647.63	647.73	647.83	647.93	648.03	648.13	648.23	648.33	648.43	648.53	648.63	648.73	648.83	648.93	649.03	649.13	649.23	649.33	649.43	649.53	649.63	649.73	649.83	649.93	650.03	650.13	650.23	650.33	650.43	650.53	650.63	650.73	650.83	650.93	651.03	651.13	651.23	651.33	651.43	651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GENERAL STAGING NOTES

1. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
2. ACCESS TO ALL ENTRANCES IMPACTED BY THE CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CLOSURE OF ACCESS MUST BE AGREED TO IN WRITING BY THE PROPERTY OWNER AND A COPY SUBMITTED TO THE ENGINEER.
3. USE AGGREGATE AT DRIVEWAYS AS REQUIRED TO MAINTAIN TEMPORARY ACCESS AND AT THE DIRECTION OF THE ENGINEER.
4. CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WHERE REQUIRED TO AVOID CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
5. ALL REQUIRED SIGNS SHOWN IN STAGING PLANS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS.

SEQUENCE OF CONSTRUCTION

PRE-STAGE CONSTRUCTION

1. SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701326. SEE HIGHWAY STANDARD FOR ADDITIONAL SIGNS AND DEVICES. TRAFFIC REMAINS ON EXISTING PAVEMENT.
2. REMOVE EXISTING AGGREGATE SHOULDER ON THE NORTH SIDE OF IL 9 FROM STA. 644+10 TO STA. 655+35.
3. CONSTRUCT TEMPORARY PAVEMENT AND EMBANKMENT ON THE NORTH EDGE OF PAVEMENT AT THE LOCATIONS SHOWN ON THE PLANS.
4. INSTALL EROSION CONTROL ITEMS AS SHOWN ON THE EROSION CONTROL PLANS.

STAGE I CONSTRUCTION

1. SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701321. SEE HIGHWAY STANDARD FOR ADDITIONAL SIGNS AND DEVICES. MAINTAIN ONE LANE OF TRAFFIC ON THE NORTH LANE UTILIZING TEMPORARY TRAFFIC SIGNALS.
2. INSTALL TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS AND TEMPORARY TRAFFIC SIGNALS AS SHOWN ON THE STAGING PLANS.
3. REMOVE THE SOUTH HALF OF EXISTING BRIDGE.
4. REMOVE GUARDRAIL AND AGGREGATE SHOULDERS ALONG THE SOUTH SIDE OF IL 9 AT THE LOCATIONS SHOWN ON THE PLANS.
5. CONSTRUCT THE SOUTH HALF OF THE PROPOSED BRIDGE (BRIDGE PLAN STAGE I), HMA PAVEMENT (FULL-DEPTH), HMA BINDER COURSE, AGGREGATE BASE COURSE, HMA BASE COURSE WIDENING, EMBANKMENT, GUARDRAIL, TEMPORARY RAMPS AND TEMPORARY PAVEMENT.
6. INSTALL EROSION CONTROL ITEMS AS SHOWN ON THE EROSION CONTROL PLANS.

STAGE II CONSTRUCTION

1. SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701321. SEE HIGHWAY STANDARD FOR ADDITIONAL SIGNS AND DEVICES. MAINTAIN ONE LANE OF TRAFFIC ON THE SOUTH LANE UTILIZING TEMPORARY TRAFFIC SIGNALS.
2. INSTALL TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS AND TEMPORARY TRAFFIC SIGNALS AS SHOWN ON THE STAGING PLANS.
3. REMOVE THE NORTH HALF OF EXISTING BRIDGE.
4. REMOVE GUARDRAIL AND TEMPORARY PAVEMENT ALONG THE NORTH SIDE OF IL 9.
5. CONSTRUCT THE NORTH HALF OF THE PROPOSED BRIDGE (BRIDGE PLAN STAGE II), HMA PAVEMENT (FULL-DEPTH), HMA BINDER COURSE, AGGREGATE BASE COURSE, HMA BASE COURSE WIDENING, GUARDRAIL, TEMPORARY RAMPS AND EMBANKMENT.
6. INSTALL EROSION CONTROL ITEMS AS SHOWN ON THE EROSION CONTROL PLANS.

STAGE III CONSTRUCTION

1. SET UP TRAFFIC CONTROL AND PROTECTION ACCORDING TO HIGHWAY STANDARD 701201. SEE HIGHWAY STANDARD FOR ADDITIONAL SIGNS AND DEVICES. SHIFT TRAFFIC TO THE PROPOSED PAVEMENT.
2. REMOVE TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF IL 9.
3. CONSTRUCT BUTT JOINTS, AGGREGATE SHOULDERS AND REMAINING HMA BINDER COURSE.
4. CONSTRUCT FINAL 1 1/2" HMA SURFACE COURSE LIFT.
5. PLACE FINAL STRIPING.



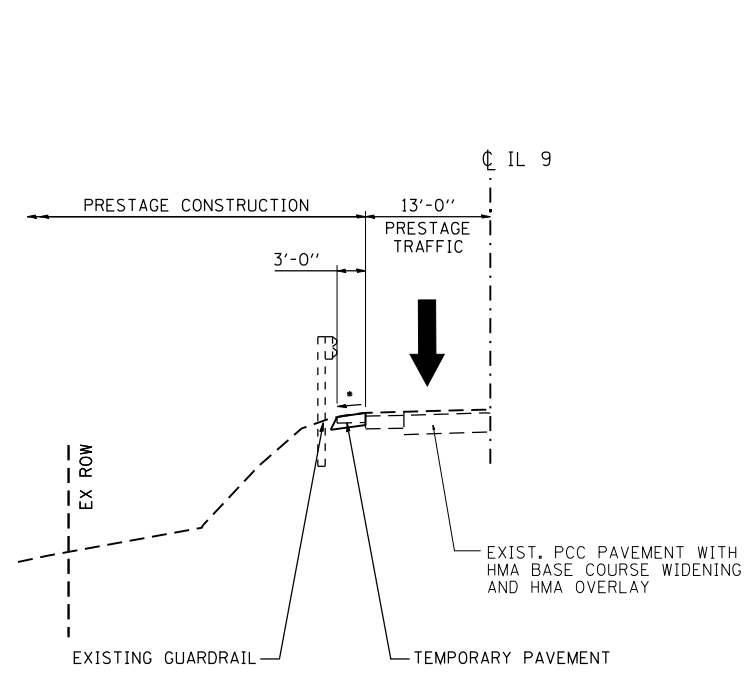
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PLOT DATE = 1/22/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

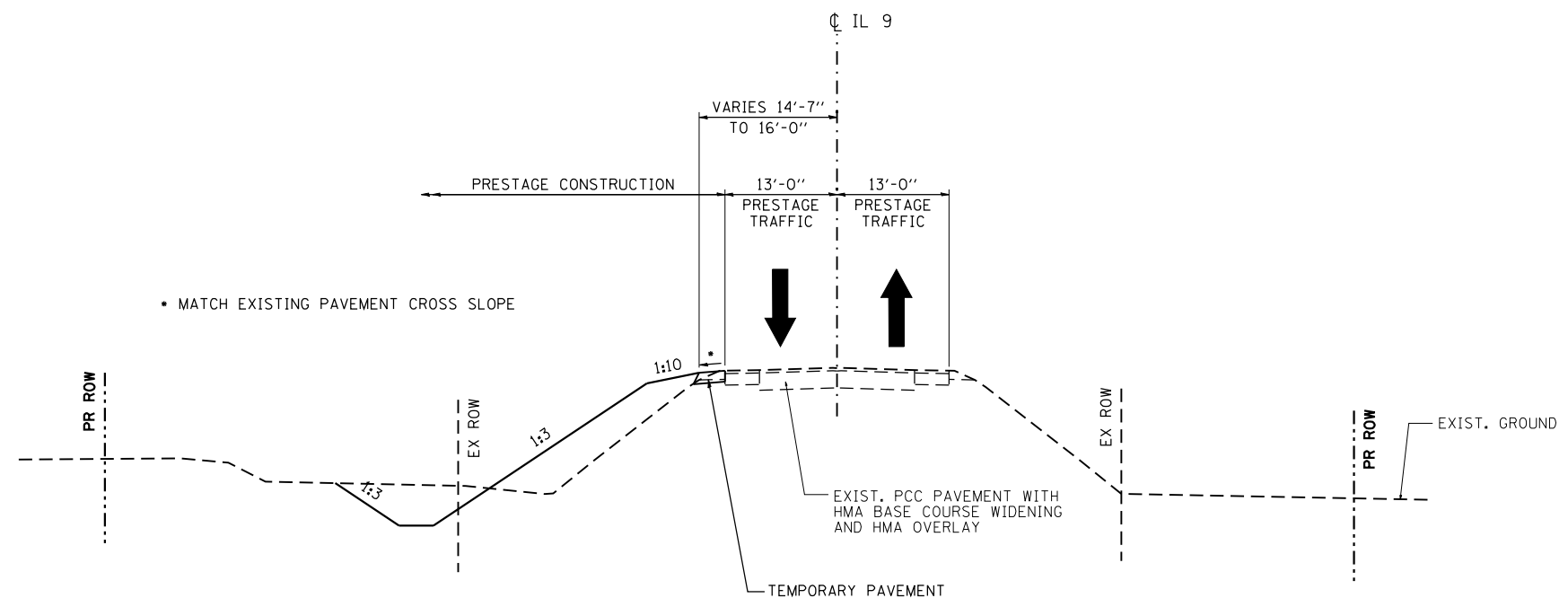
**IL ROUTE 9 OVER MUD CREEK
GENERAL STAGING NOTES AND SEQUENCE OF CONSTRUCTION**

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

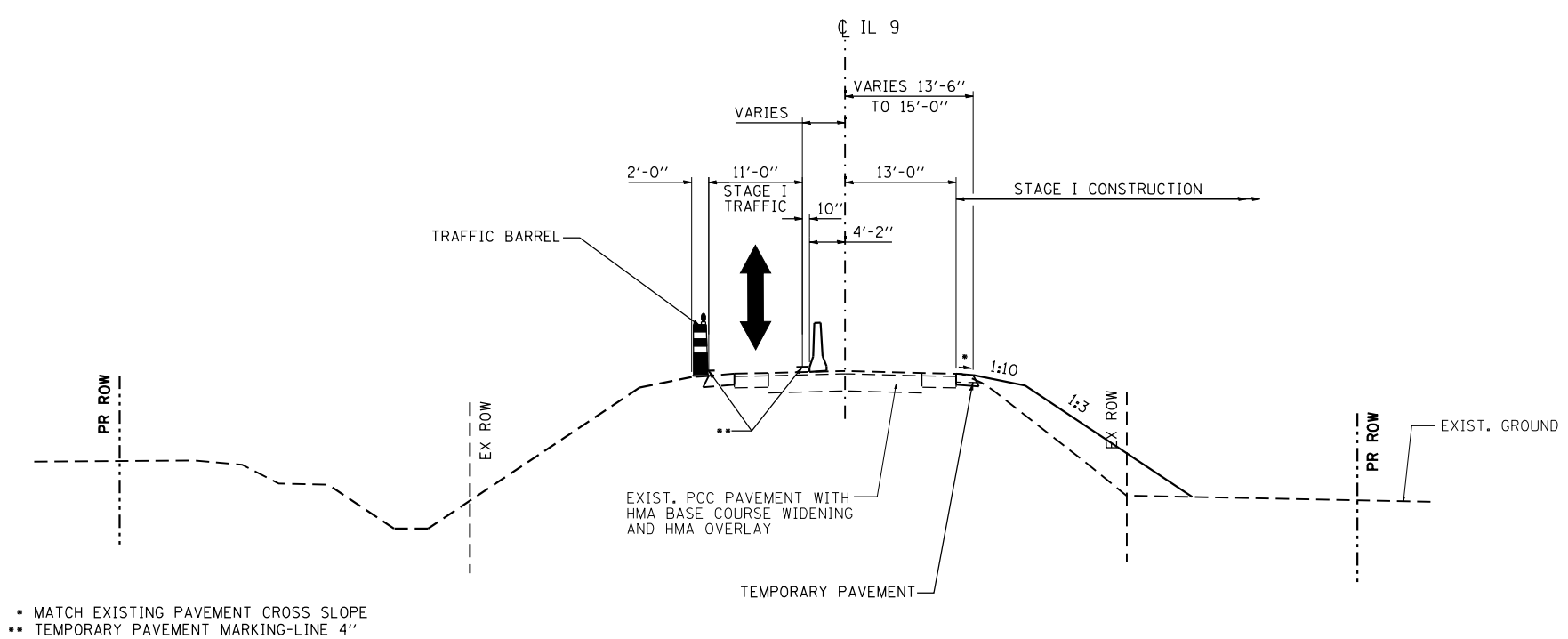
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR)BR	TAZEWELL	80	22
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



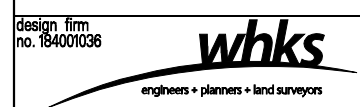
PRESTAGE CONSTRUCTION TYPICAL SECTION
 STA 647+50 TO STA 648+50
 STA 650+16 TO STA. 651+16



PRESTAGE CONSTRUCTION TYPICAL SECTION
 STA 643+86 TO STA 647+50
 STA 651+16 TO STA. 655+75



STAGE I CONSTRUCTION TEMPORARY PAVEMENT TYPICAL SECTION
 STA. 643+95 TO STA. 645+15
 STA. 654+28 TO STA. 655+57



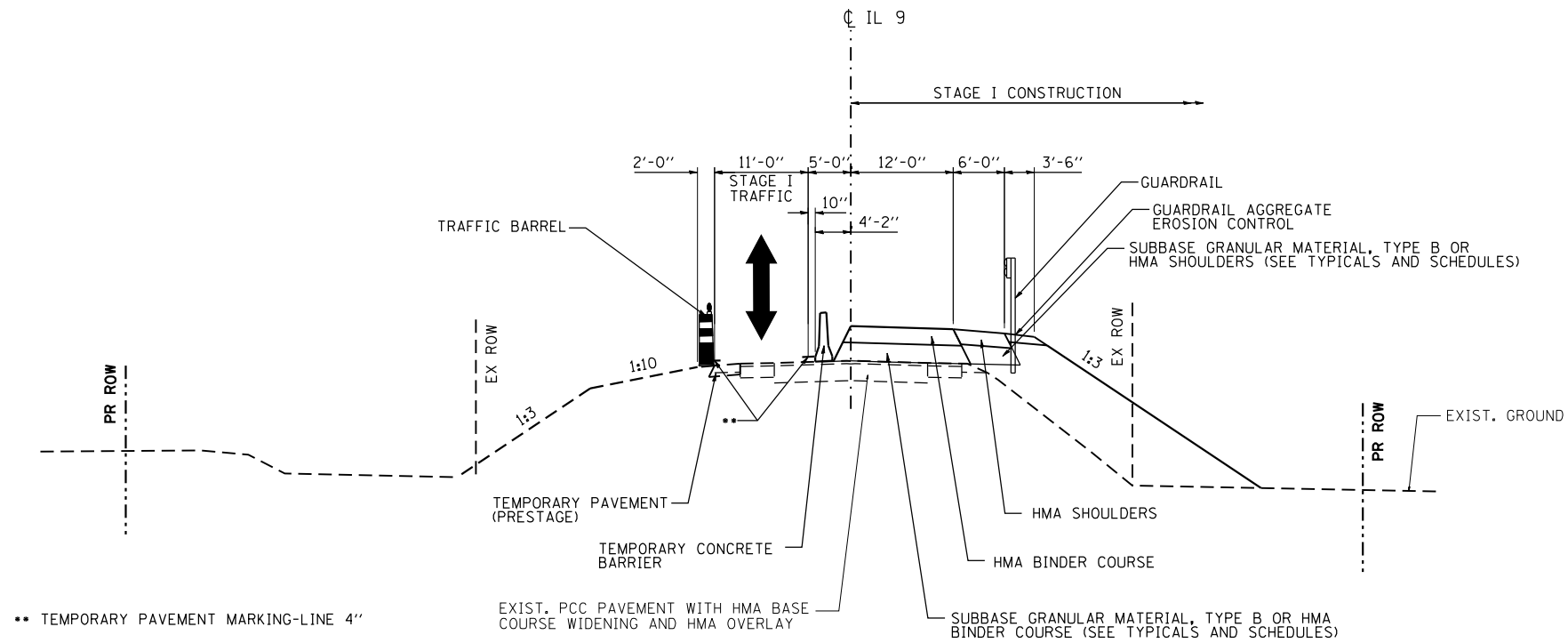
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PLOT DATE = 1/22/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 9 OVER MUD CREEK
 MAINTENANCE OF TRAFFIC TYPICAL SECTIONS**

F.A.P. RTE. 693	SECTION (119BR)BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 23
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

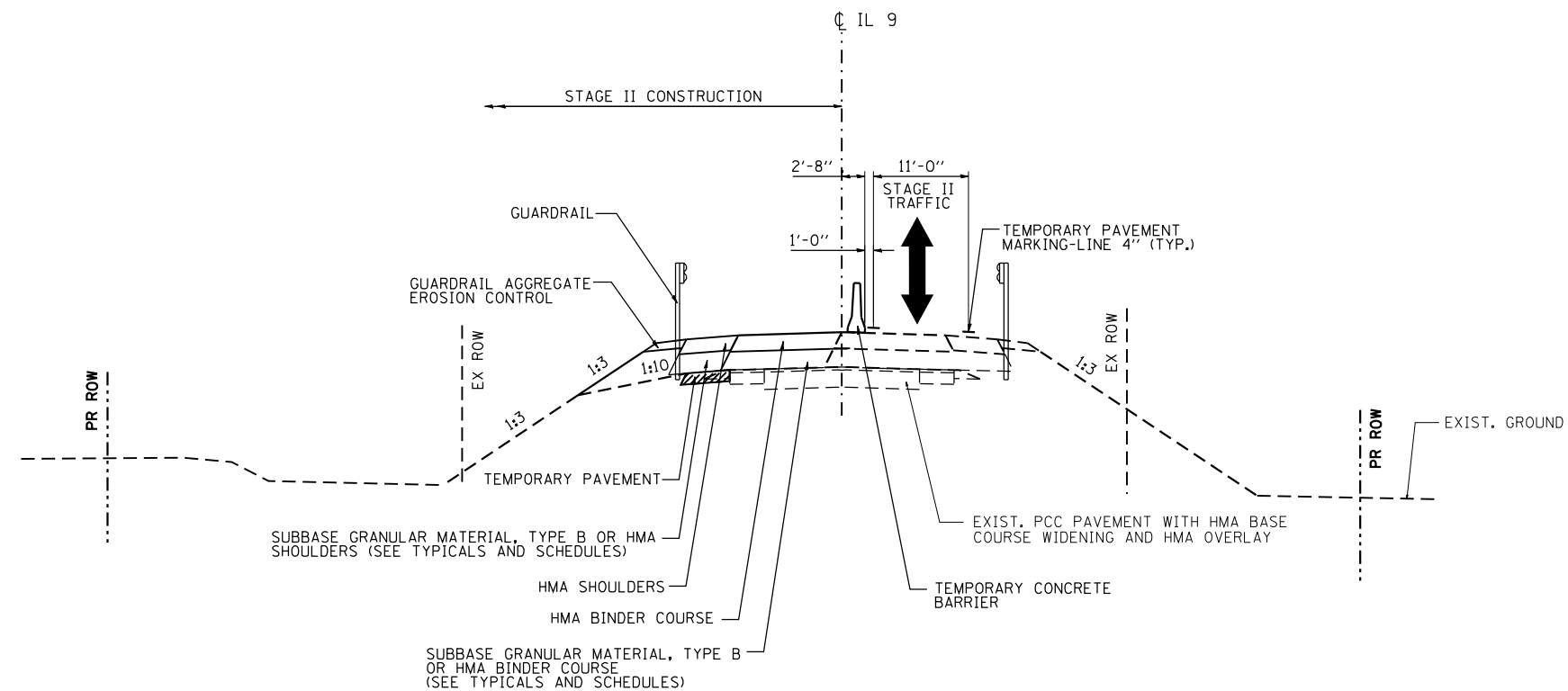
SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. TO STA.



STAGE I CONSTRUCTION TYPICAL SECTION

STA. 645+15 TO STA. 654+28

•• TEMPORARY PAVEMENT MARKING-LINE 4"

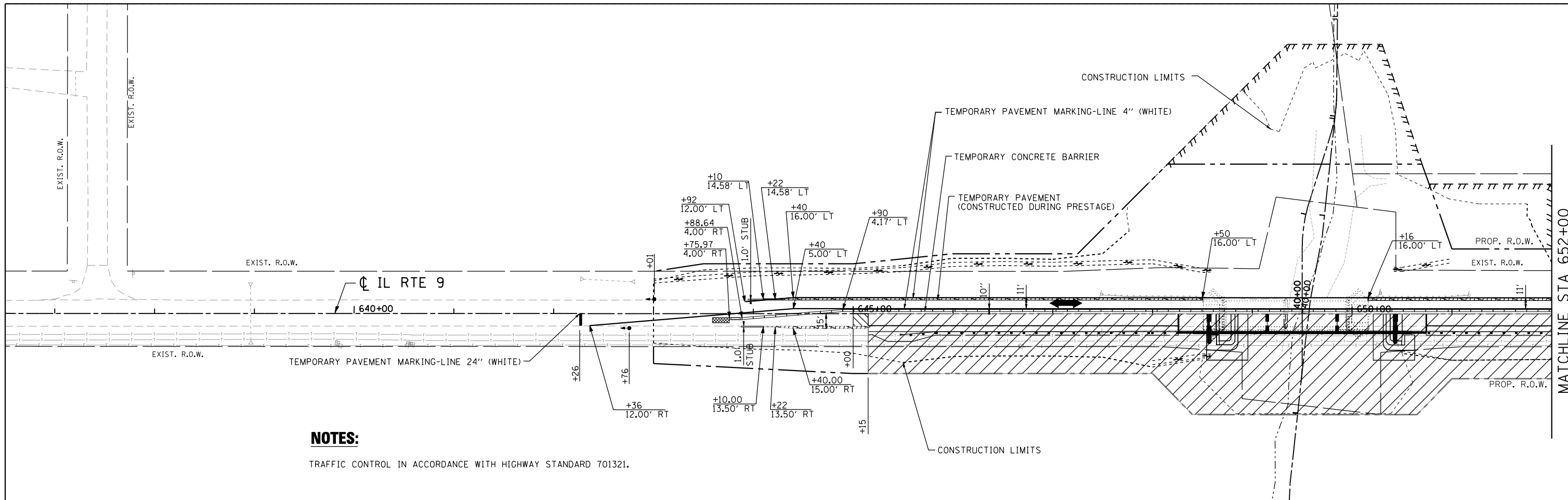


STAGE II CONSTRUCTION TYPICAL SECTION

STA. 645+15 TO STA. 654+28

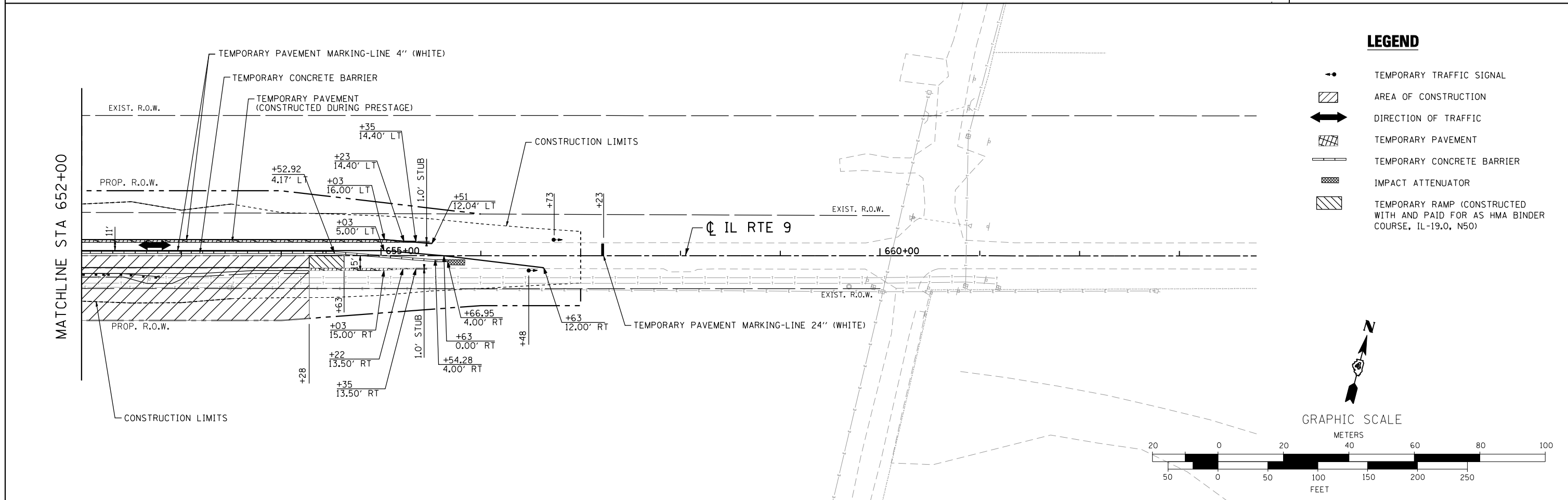
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PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISOR
PLOT DATE = 1/22/2013	CHECKED -	REVISOR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR)BR	TAZEWELL	80	24
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



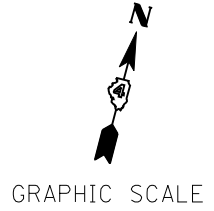
NOTES:

TRAFFIC CONTROL IN ACCORDANCE WITH HIGHWAY STANDARD 701321.



LEGEND

- TEMPORARY TRAFFIC SIGNAL
- AREA OF CONSTRUCTION
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- TEMPORARY RAMP (CONSTRUCTED WITH AND PAID FOR AS HMA BINDER COURSE, IL-19.0, N50)



design firm
no. 184001036

engineers • planners • land surveyors

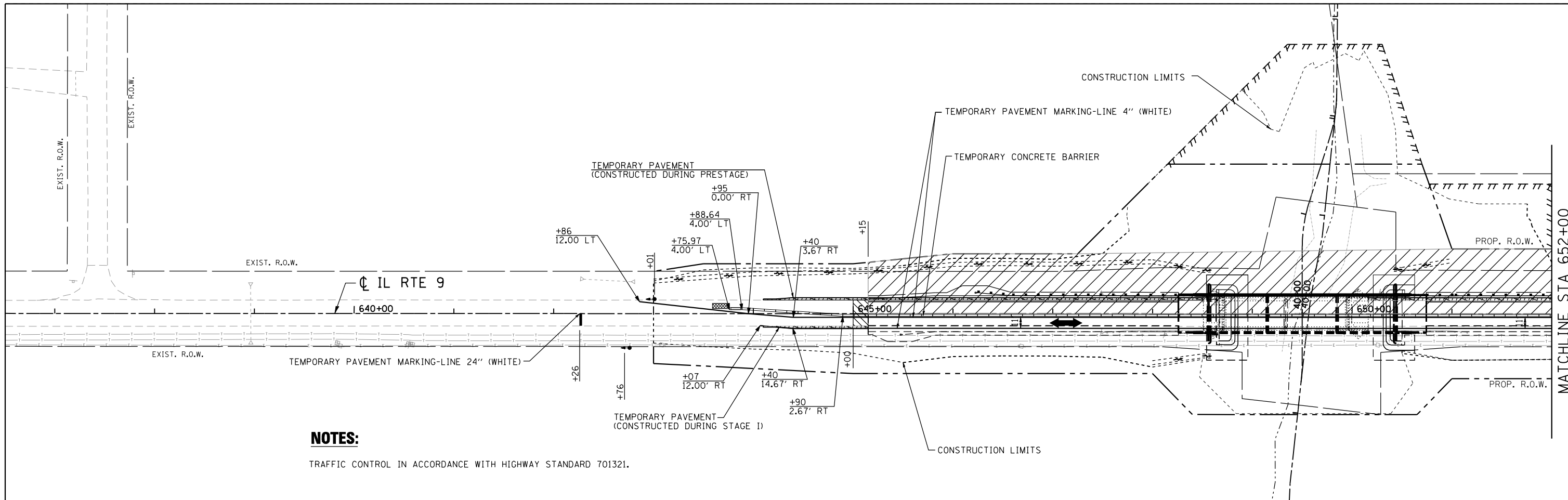
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FILE NAME = D468757-shr-mot1.dgn	CHECKED -	REVISED
PLOT SCALE = 100.0000 "/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 9 OVER MUD CREEK
MAINTENANCE OF TRAFFIC STAGE I**

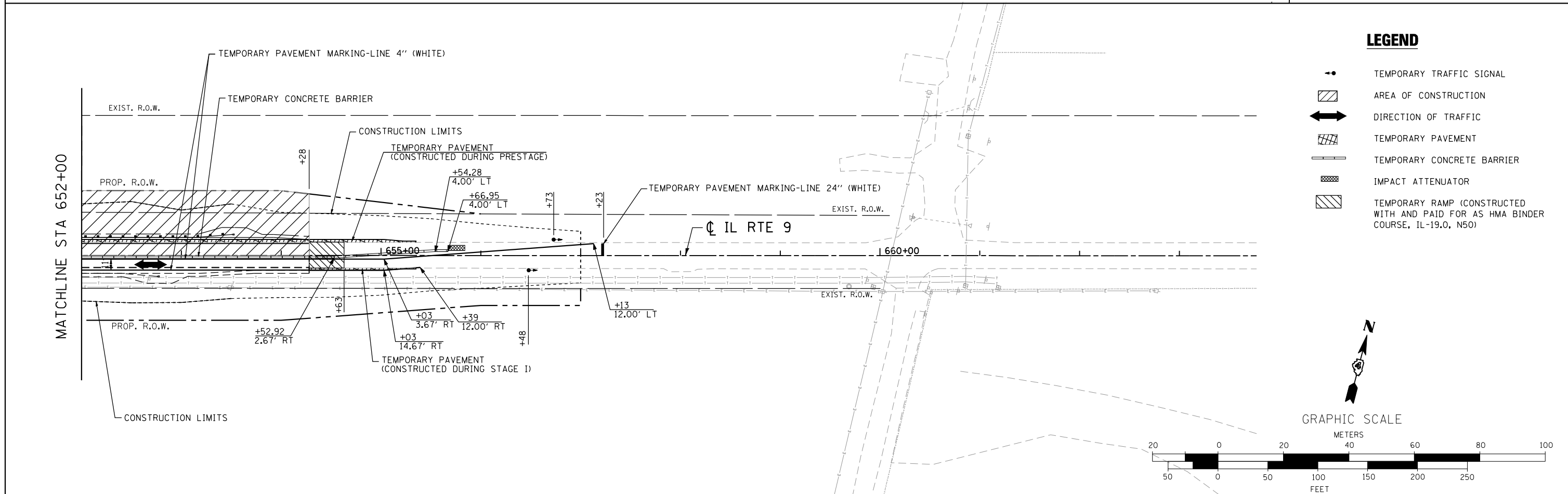
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F.A.P. R.T.E. 693	SECTION (119BR)BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 25
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



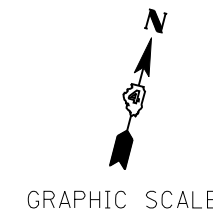
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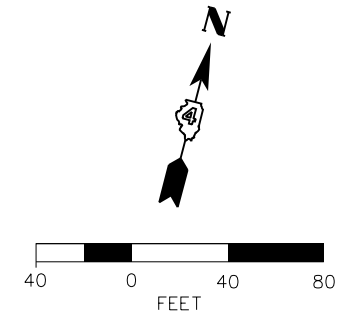
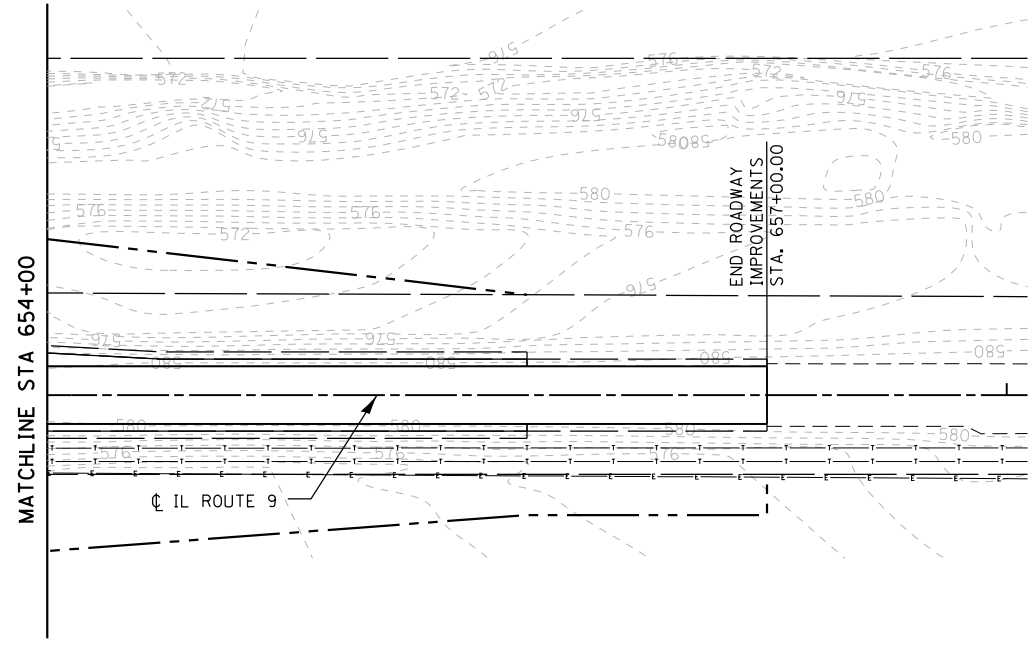
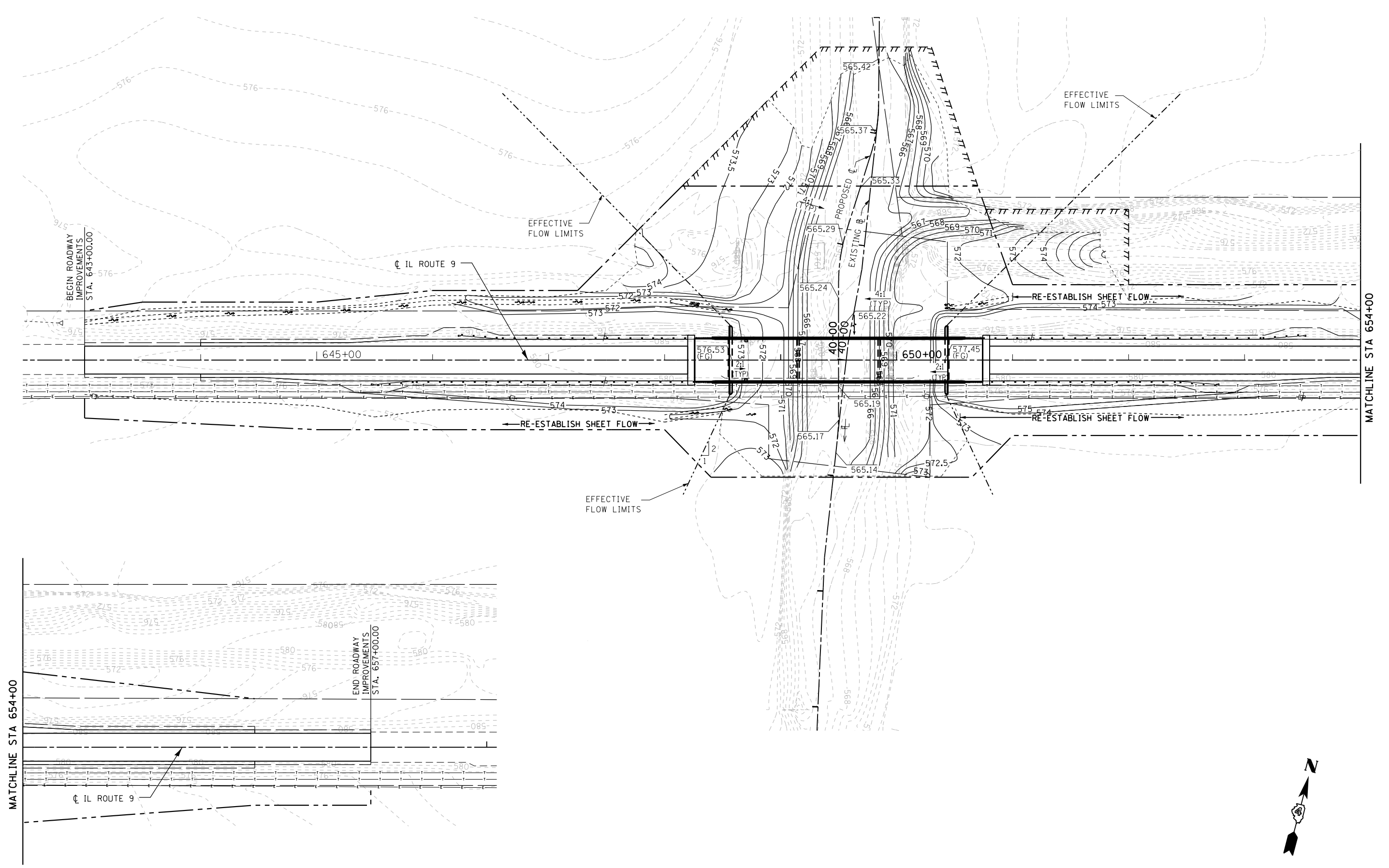
TRAFFIC CONTROL IN ACCORDANCE WITH HIGHWAY STANDARD 701321.



LEGEND

- TEMPORARY TRAFFIC SIGNAL
- AREA OF CONSTRUCTION
- DIRECTION OF TRAFFIC
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- TEMPORARY RAMP (CONSTRUCTED WITH AND PAID FOR AS HMA BINDER COURSE, IL-19.0, N50)





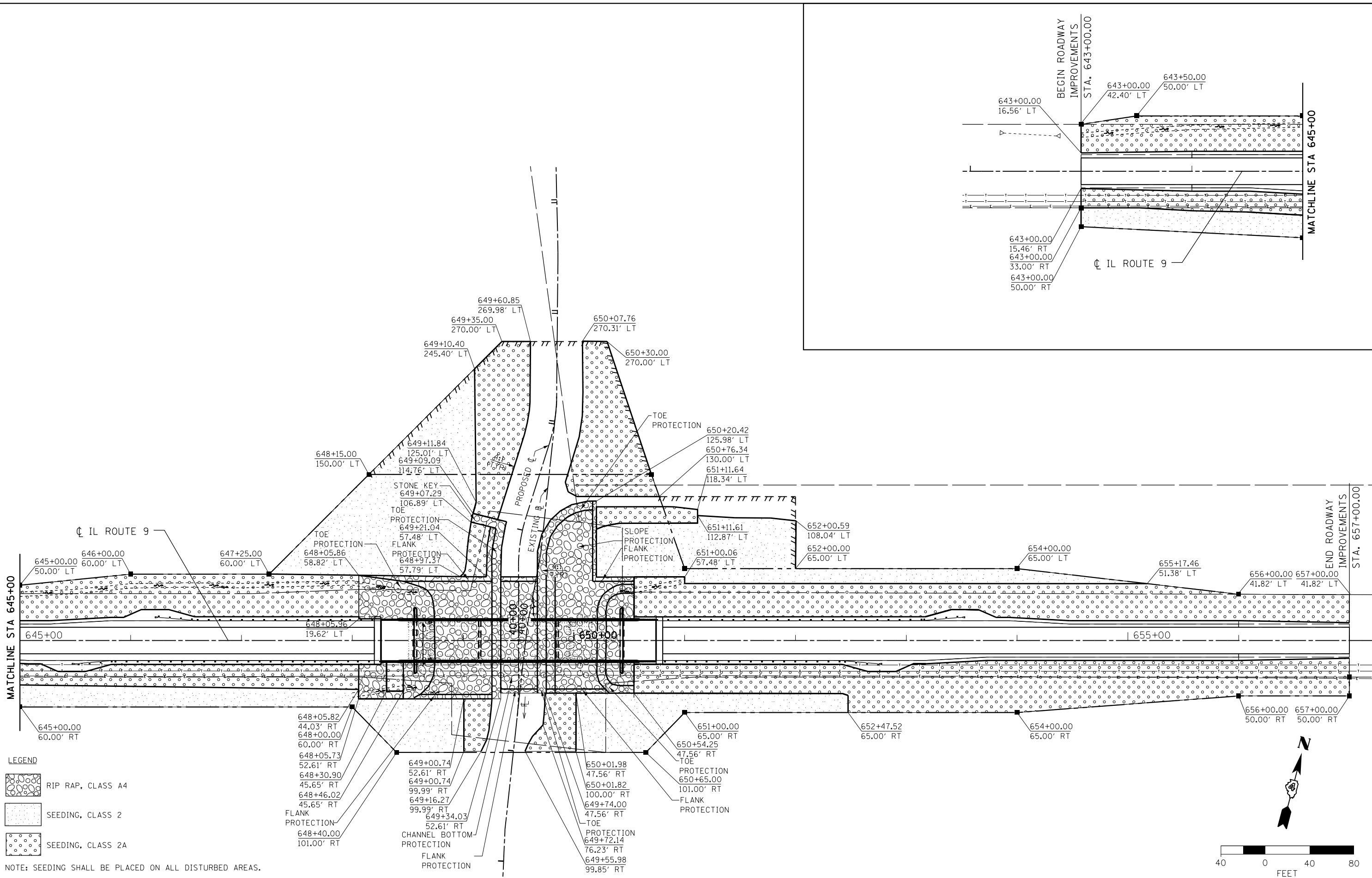
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DRAWN - KJC	REVISIONS -	
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PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GRADING PLAN IL 9 OVER MUD CREEK		
SCALE: 1"=40'	SHEET NO. 1 OF 1 SHEETS	STA. 643+00.00 TO STA. 657+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	28
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

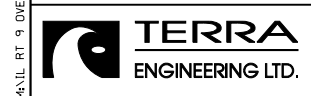
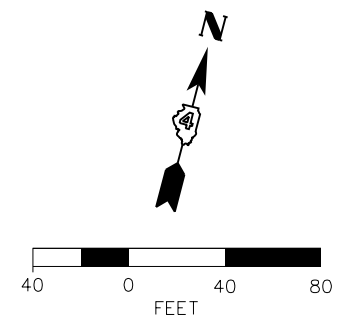
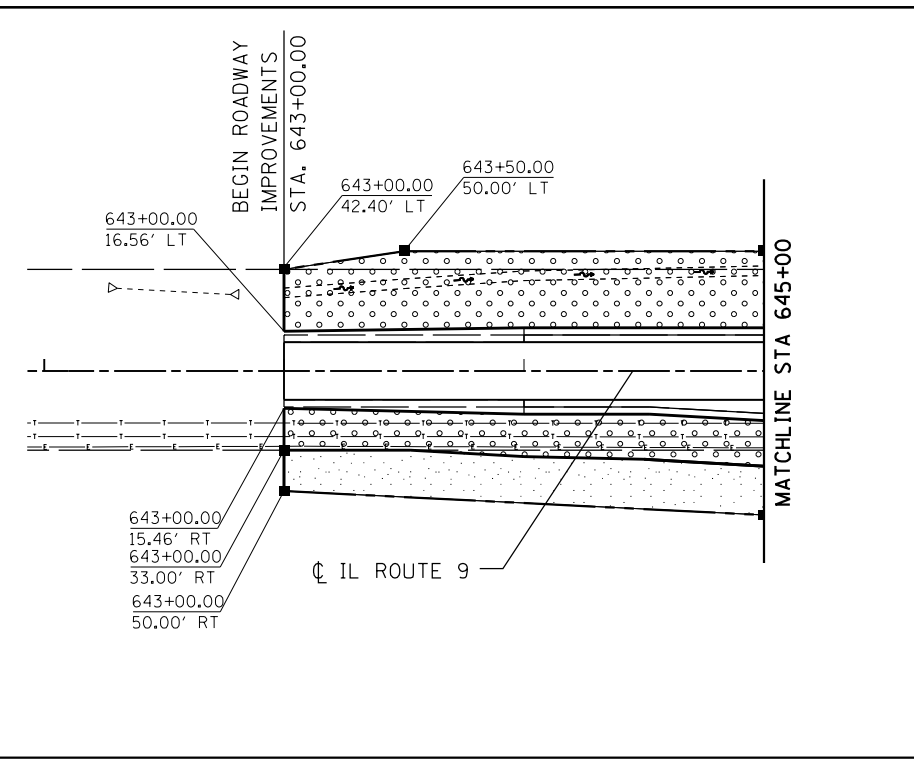
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LEGEND

- RIP RAP, CLASS A4
- SEEDING, CLASS 2
- SEEDING, CLASS 2A

NOTE: SEEDING SHALL BE PLACED ON ALL DISTURBED AREAS.



USER NAME = hl	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=40'	CHECKED - LVA	REVISED -
PLOT DATE = 3/19/2013	DATE - 03/20/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCOUR PROTECTION AND SEEDING PLAN IL 9 OVER MUD CREEK		
SCALE: 1"=40'	SHEET NO. 1 OF 1 SHEETS	STA. 643+00.00 TO STA. 657+00.00

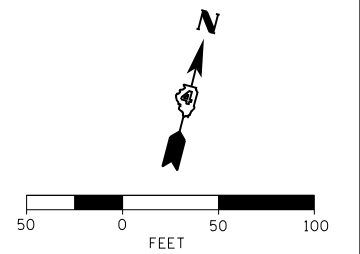
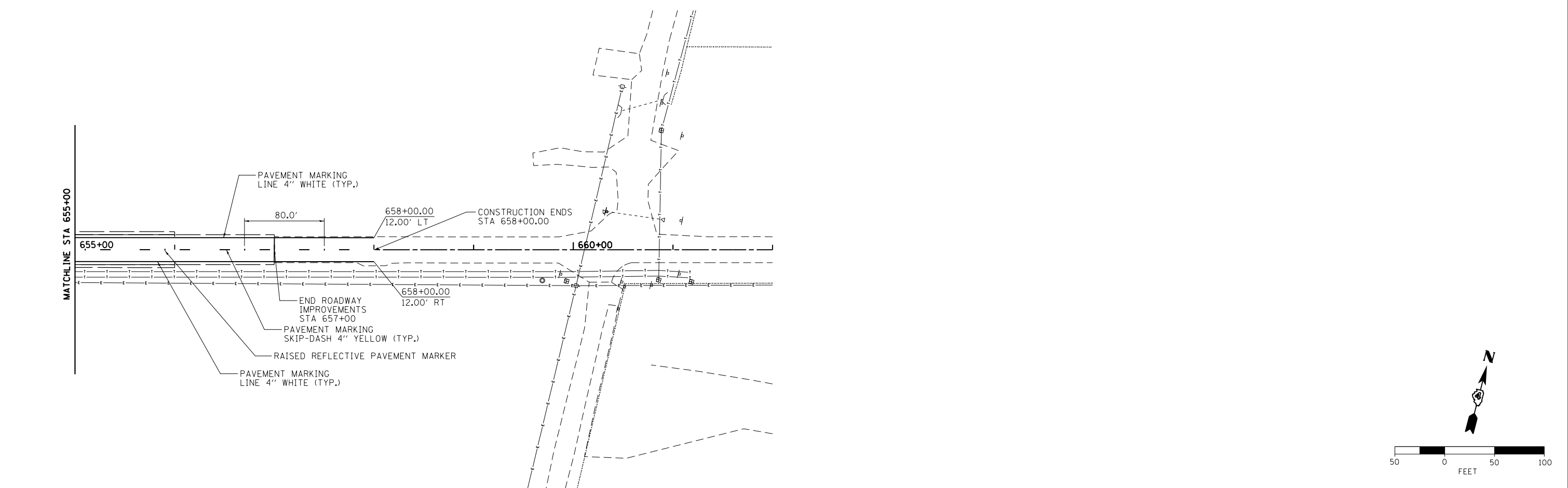
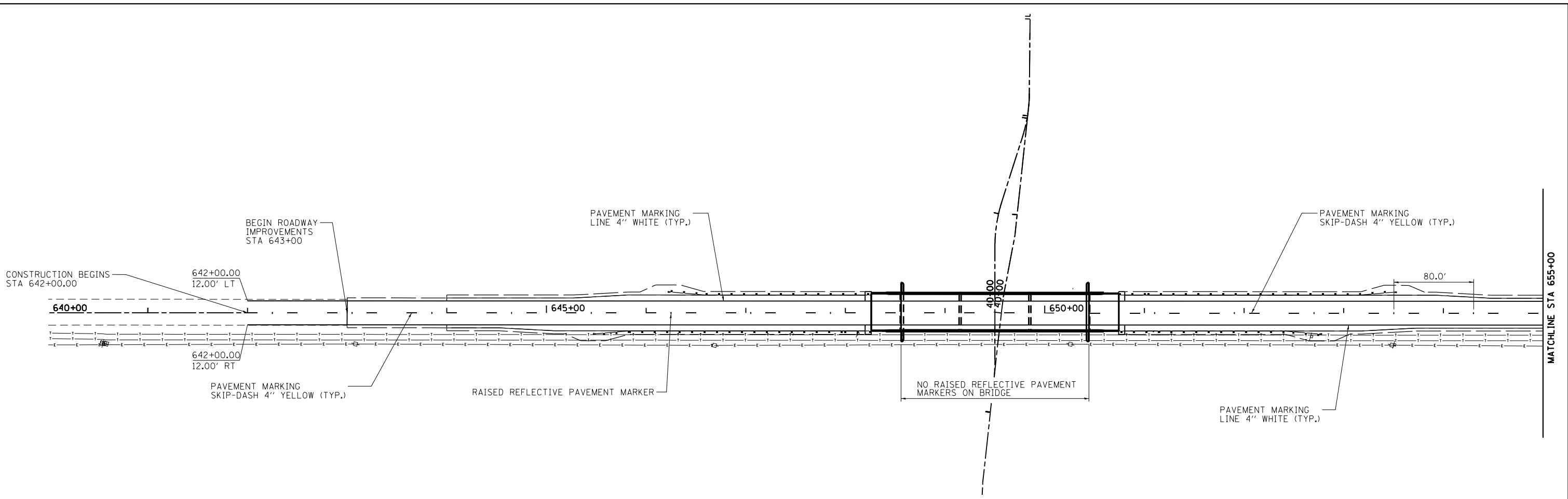
F.A.P. RTE. 693	SECTION (119BR) BR	COUNTY TAZEWELL	TOTAL SHEETS 80	SHEET NO. 29
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

\$PENTBL\$

\$PLTDV\$

\$SYS\$

\\L:\RT_9_OVER_MUD_CREEK\CIVIL\CADD_Sheets\0468757-plt-jmk.dgn



USER NAME = TERRA	DESIGNED - CL	REVISED -
DRAWN - KJC	REVISOR -	
PLLOT SCALE = 1"=50'	CHECKED - LVA	REVISED -
PLLOT DATE = 1/23/2013	DATE - 01/25/13	REVISED -

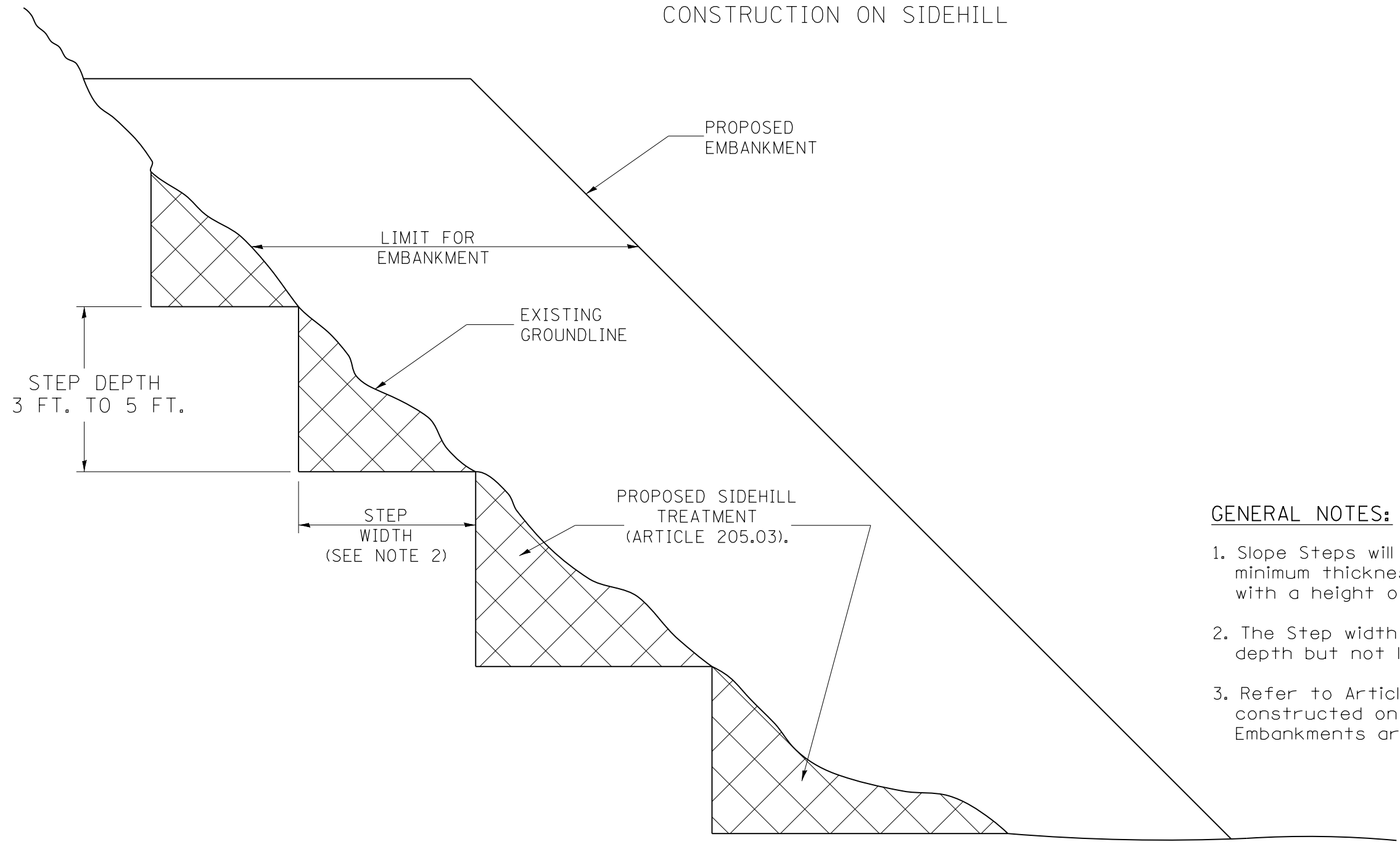
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN IL 9 OVER MUD CREEK		
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. 643+00.00 TO STA. 657+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	30
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL

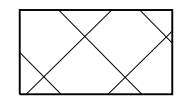


DESIGNER NOTE:
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

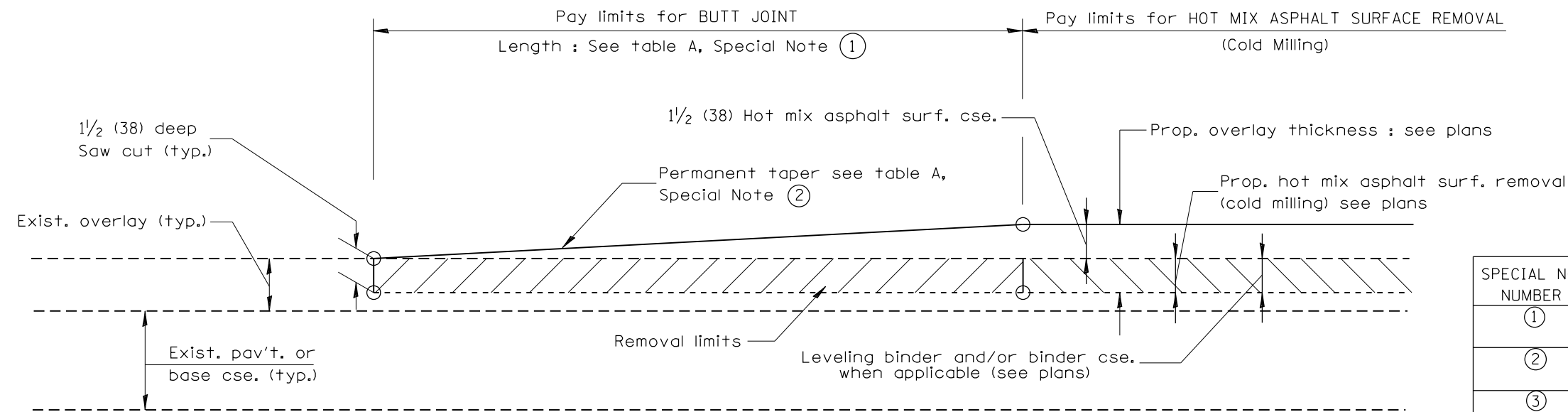
All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.						693	(119BR) BR	TAZEWELL	80	31
CONTRACT NO. 68757												
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOT TO SCALE

CADD STD. 205001-D4

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



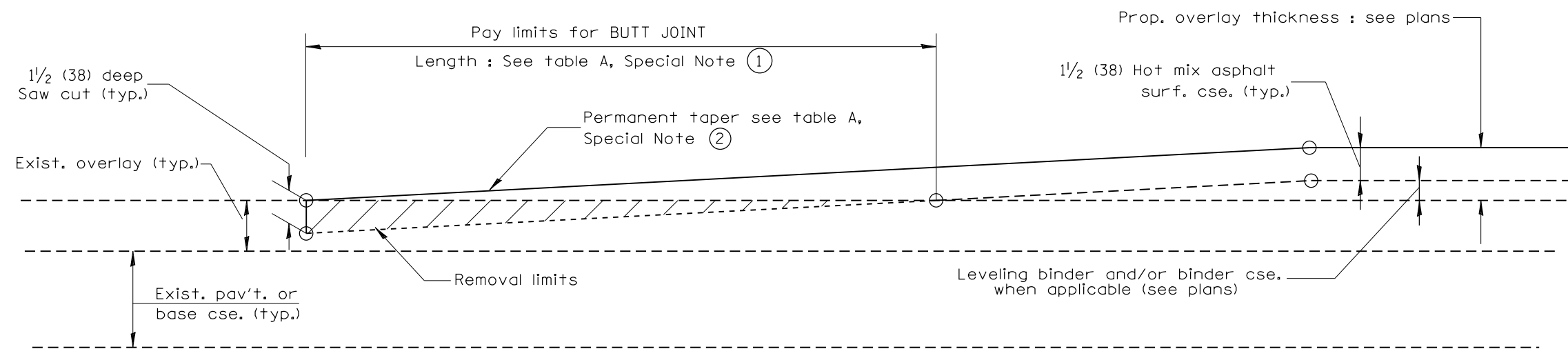
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

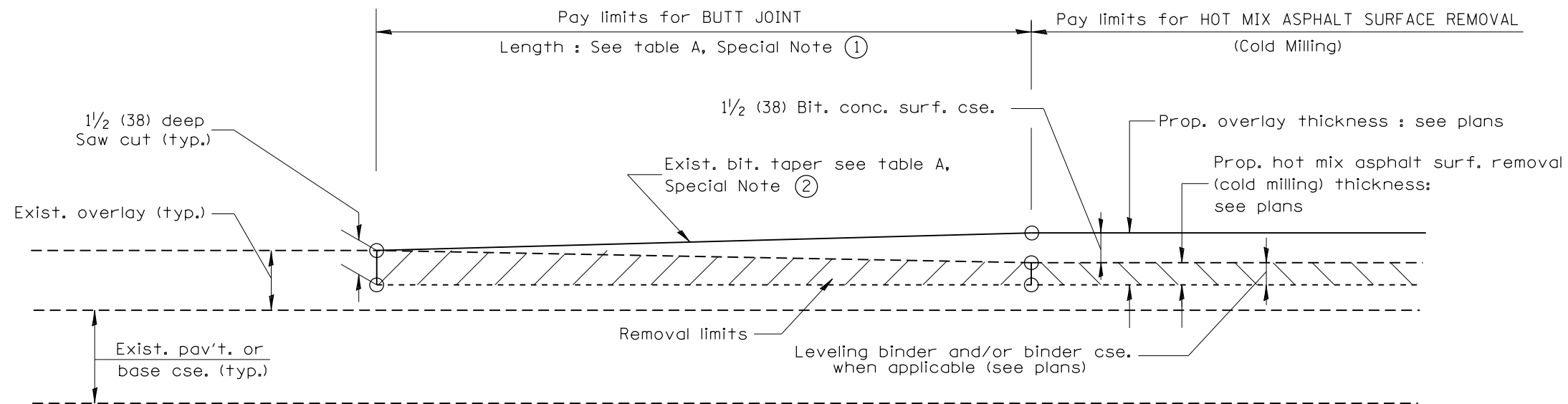
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

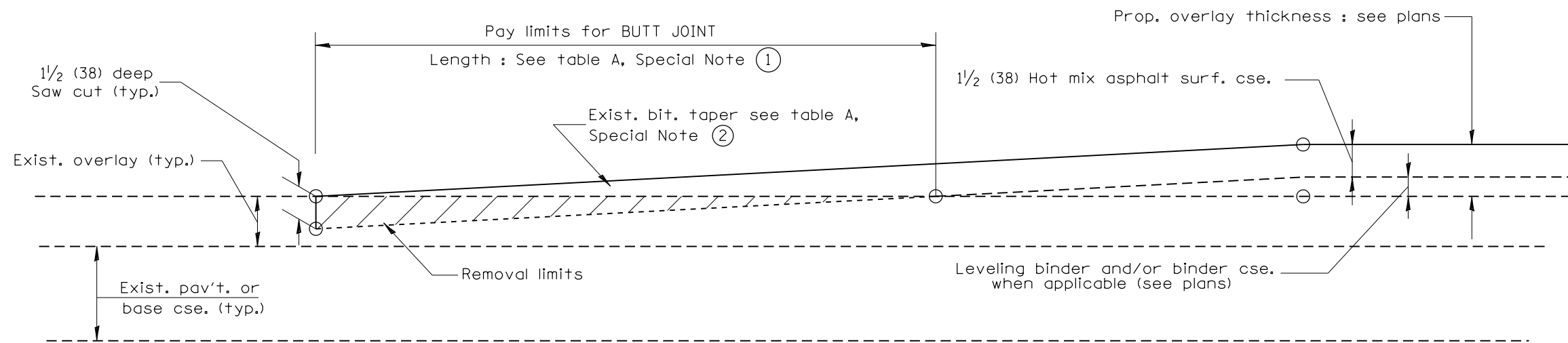
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 406101-D4

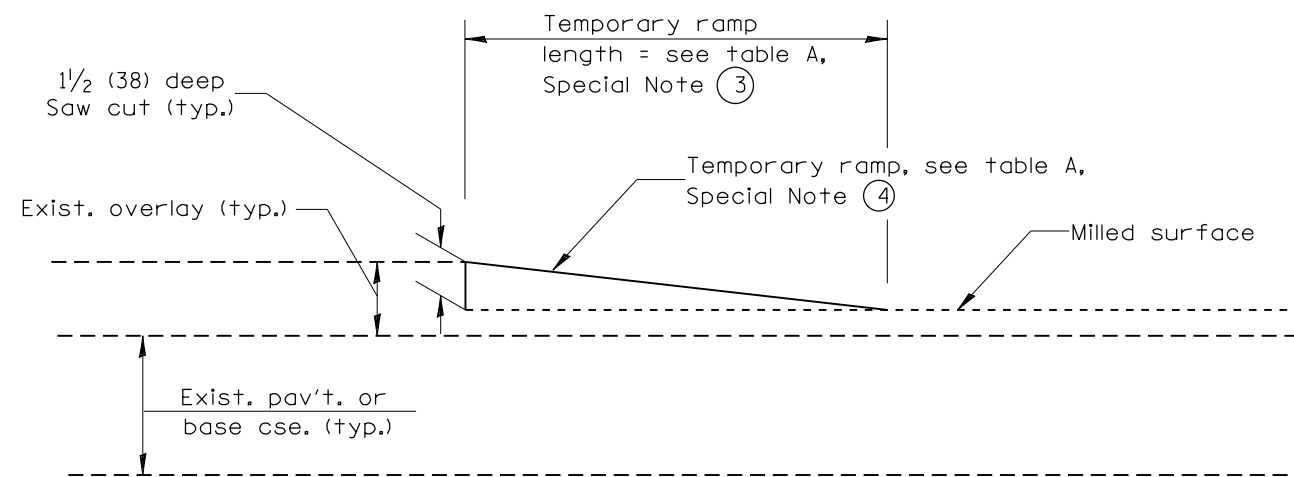
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



DETAIL TEMPORARY RAMP

All dimensions are in inches (millimeters) unless otherwise noted.

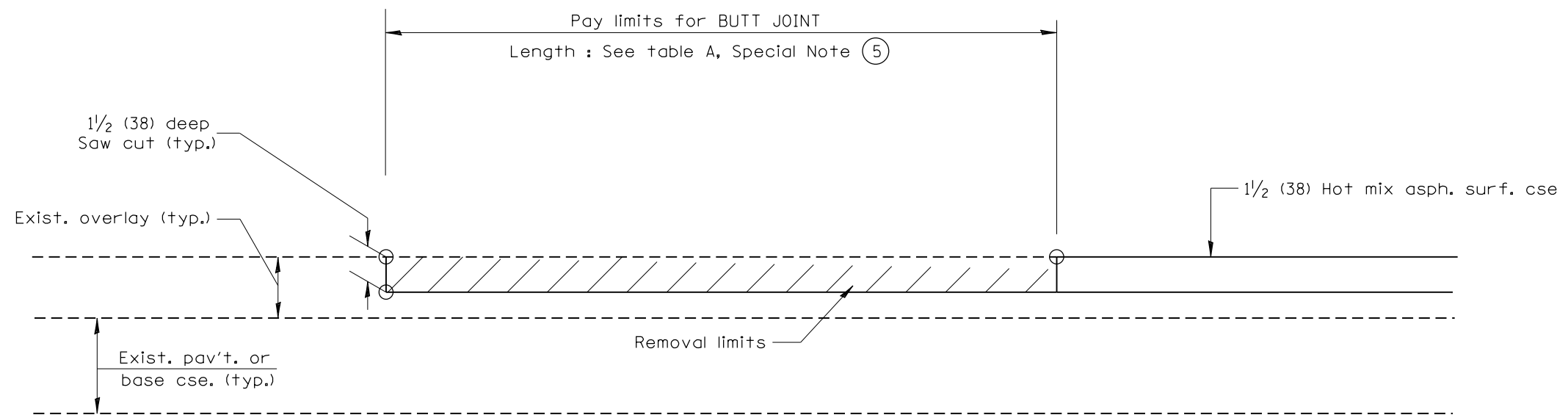
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	



CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches (millimeters) unless otherwise noted.

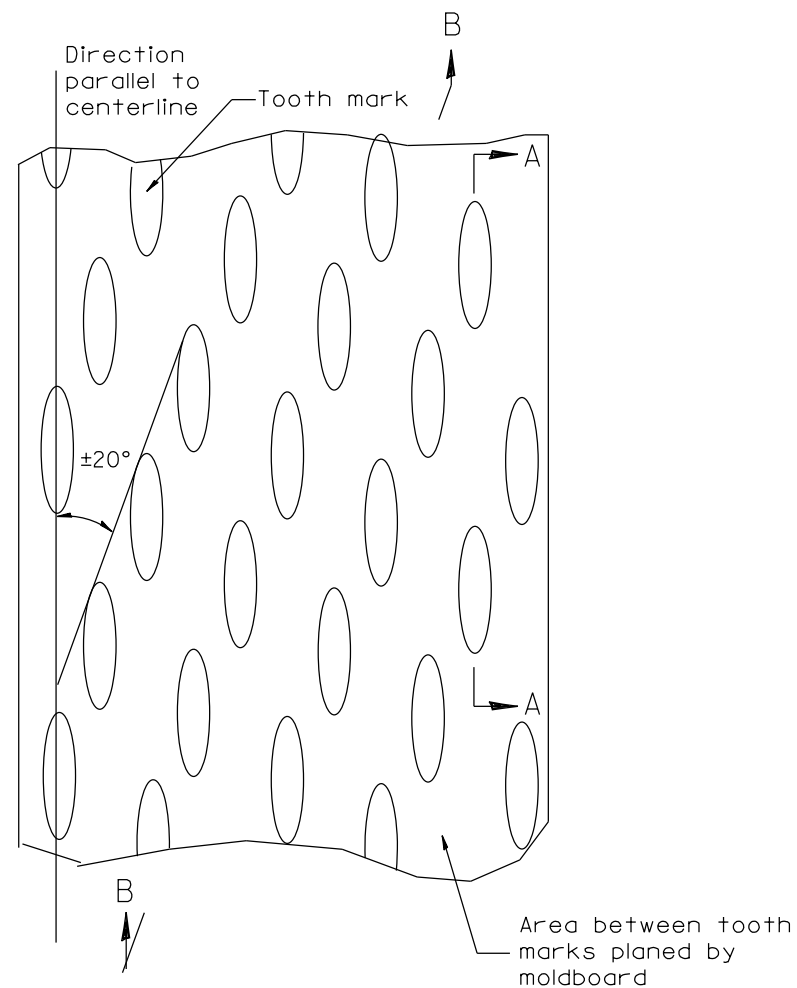
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3
CADD STD. 406101-D4

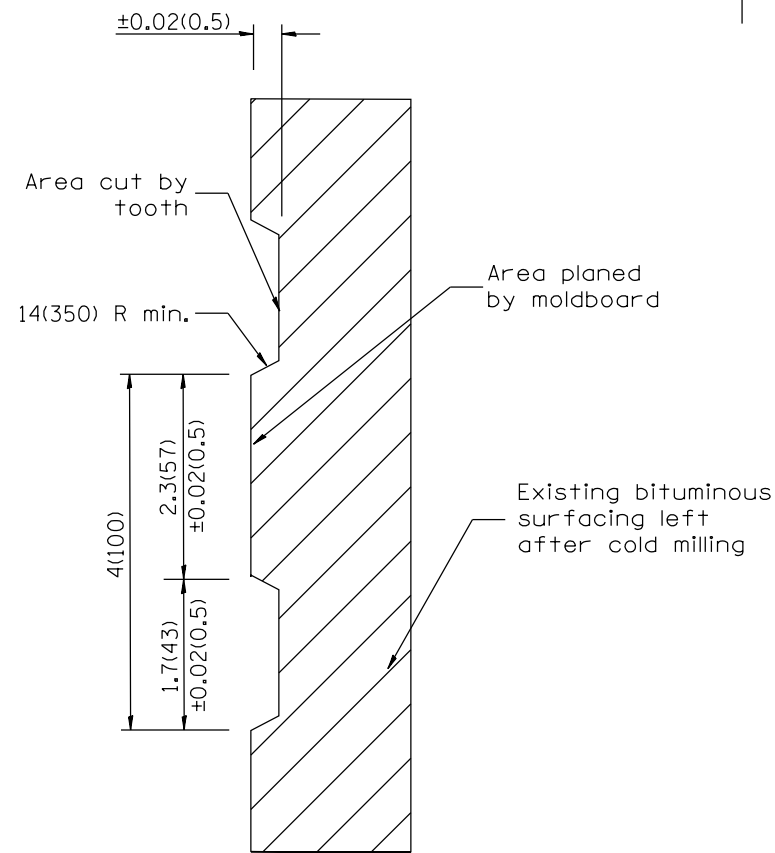
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693	(119BR) BR	TAZEWELL	80	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	



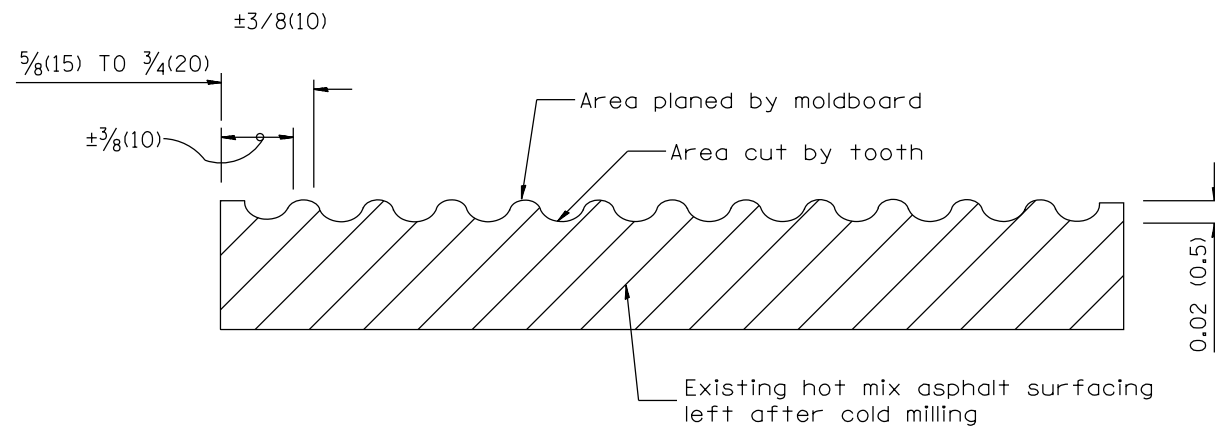
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

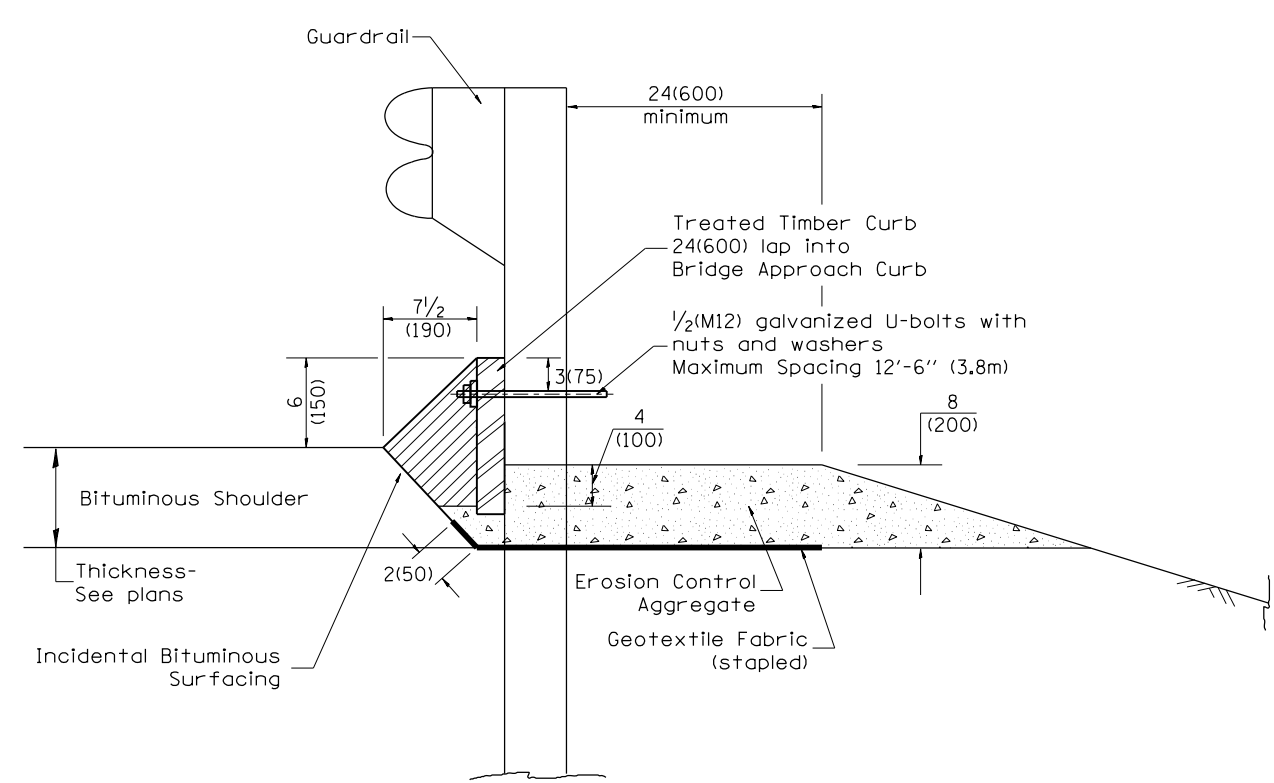
NOT TO SCALE

CADD STD. 440001-D4

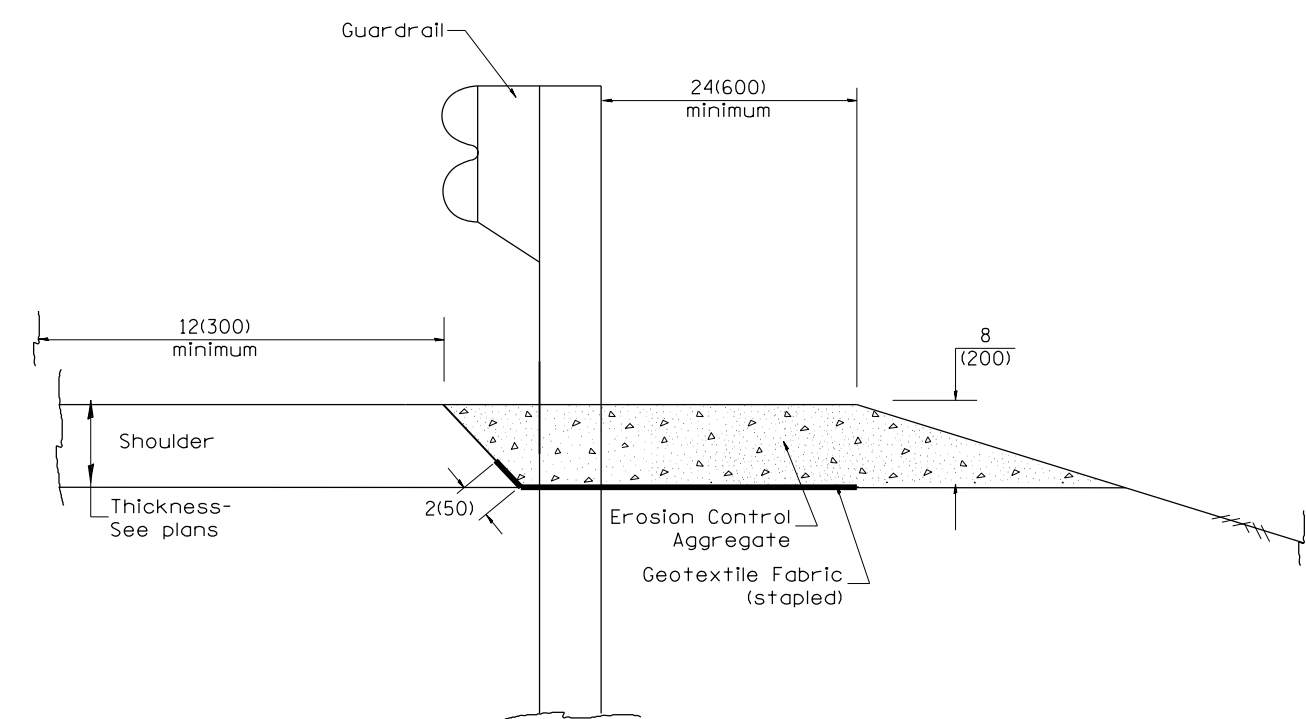
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	35
CONTRACT NO. 68757				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:

1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)
3. Include State Standards 609001, 609006 or 610001 if applicable.
4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.																	
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.																	
11-03-00	CORRECTION TO NOTES	M.A.																	
10-16-06	REVISED TO 2007 SPEC.	M.A.																	

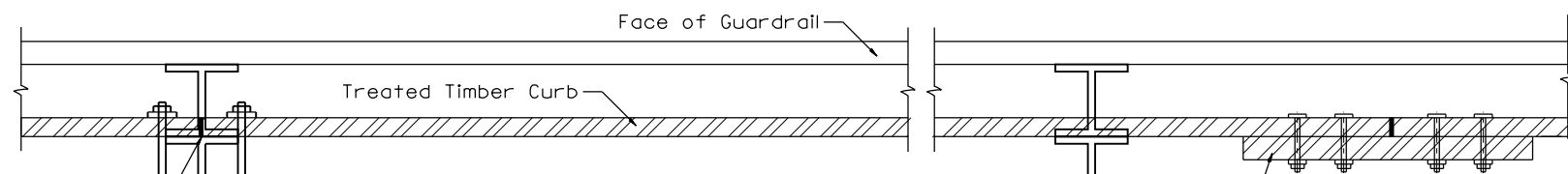
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-D4

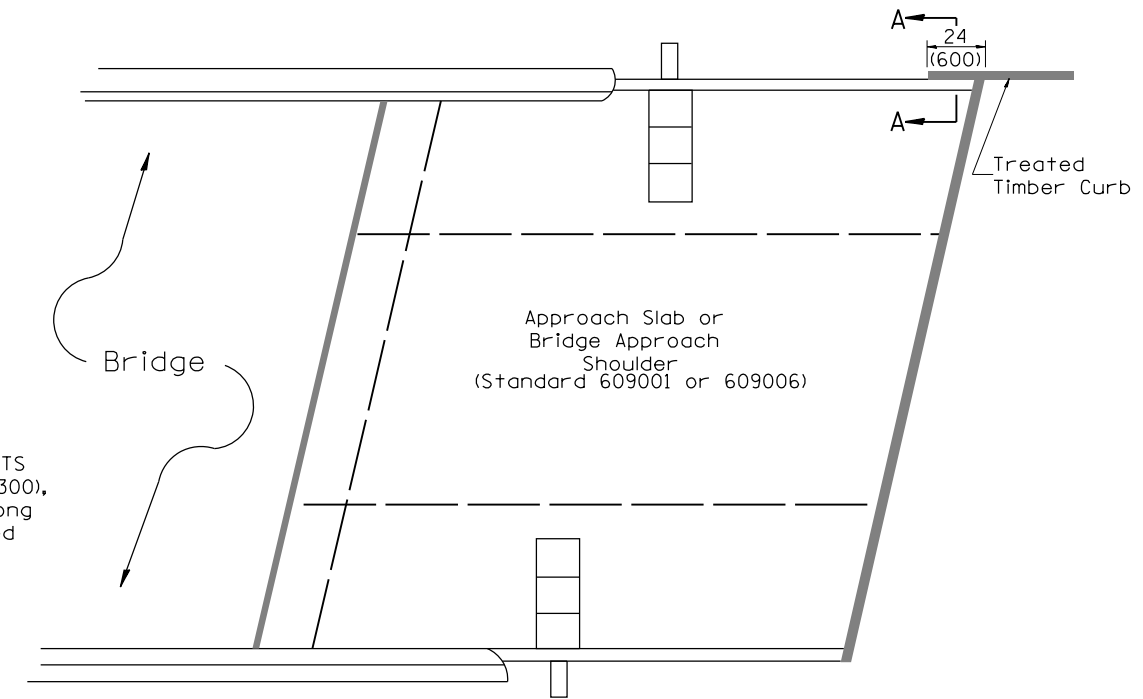
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	



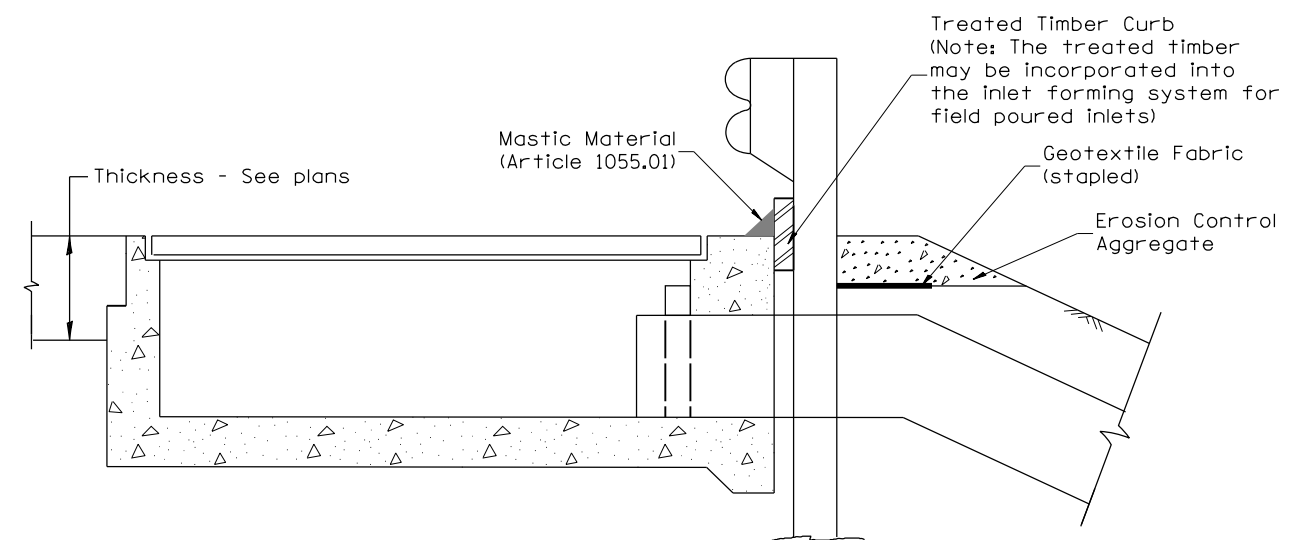
SPLICE LOCATED AT GUARDRAIL POST
 1/2(M12) galvanized U-bolt with
 nut & washer

SPLICE LOCATED BETWEEN GUARDRAIL POSTS
 treated timber splice plate 2x12 (50x300),
 actual size 1 1/2x1 1/2 (40x290), 24(600) long
 with 8 evenly spaced 1/2(M12) galvanized
 bolts with nuts & washers.

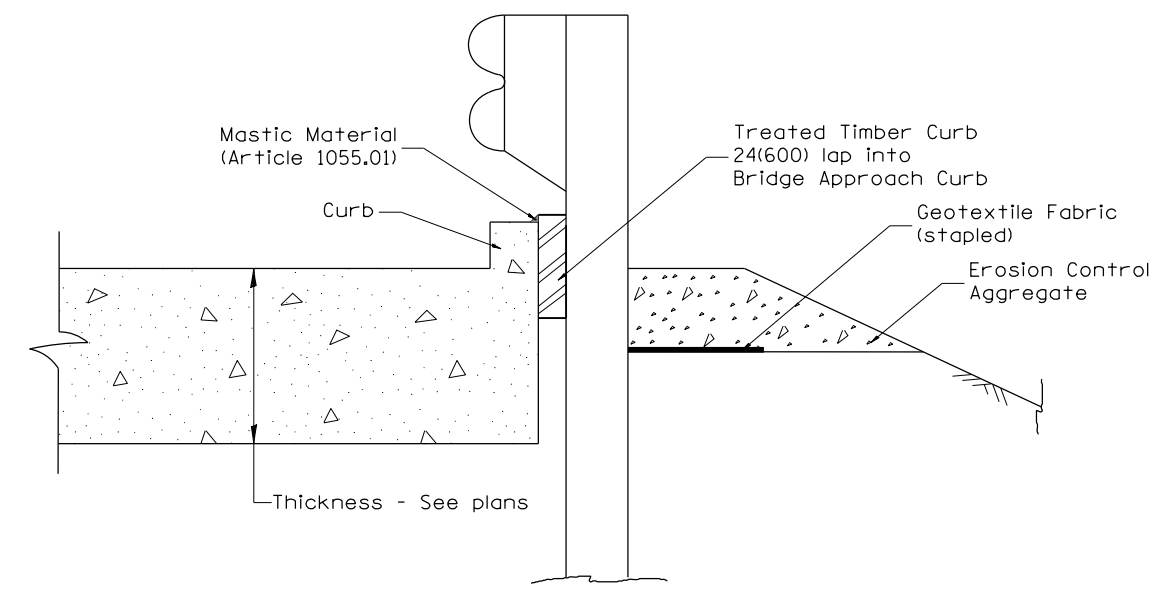
DETAIL A
 (Typical Treated Timber Splices)



PLAN VIEW
 APPROACH SLAB OR BRIDGE APPROACH SHOULDER
 (STANDARD 609001 or 609006)



TYPICAL SECTION WITH EROSION CONTROL CURB
 AT INLETS TYPE E & F (STANDARD 610001)



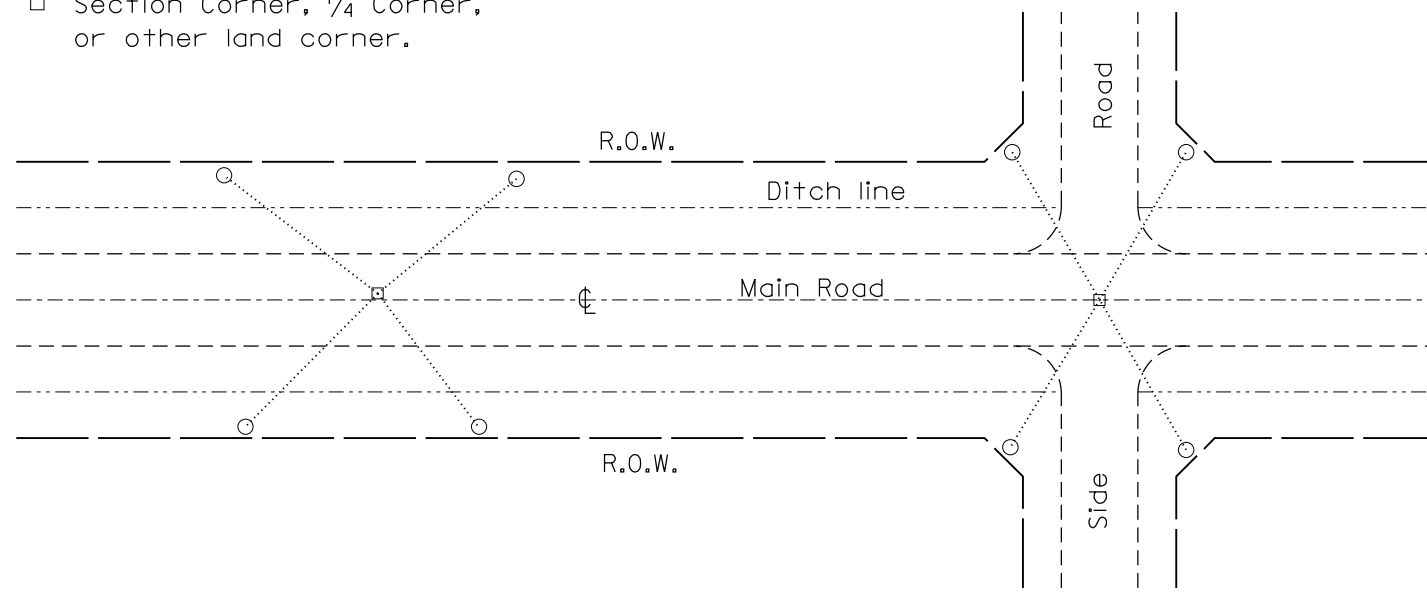
SECTION A-A
 TYPICAL SECTION WITH EROSION CONTROL CURB
 AT BRIDGE APPROACH CURB
 (STANDARD 609001 OR 609006)

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								693	(119BR) BR	TAZEWELL	80	37
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 68757				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY TIES

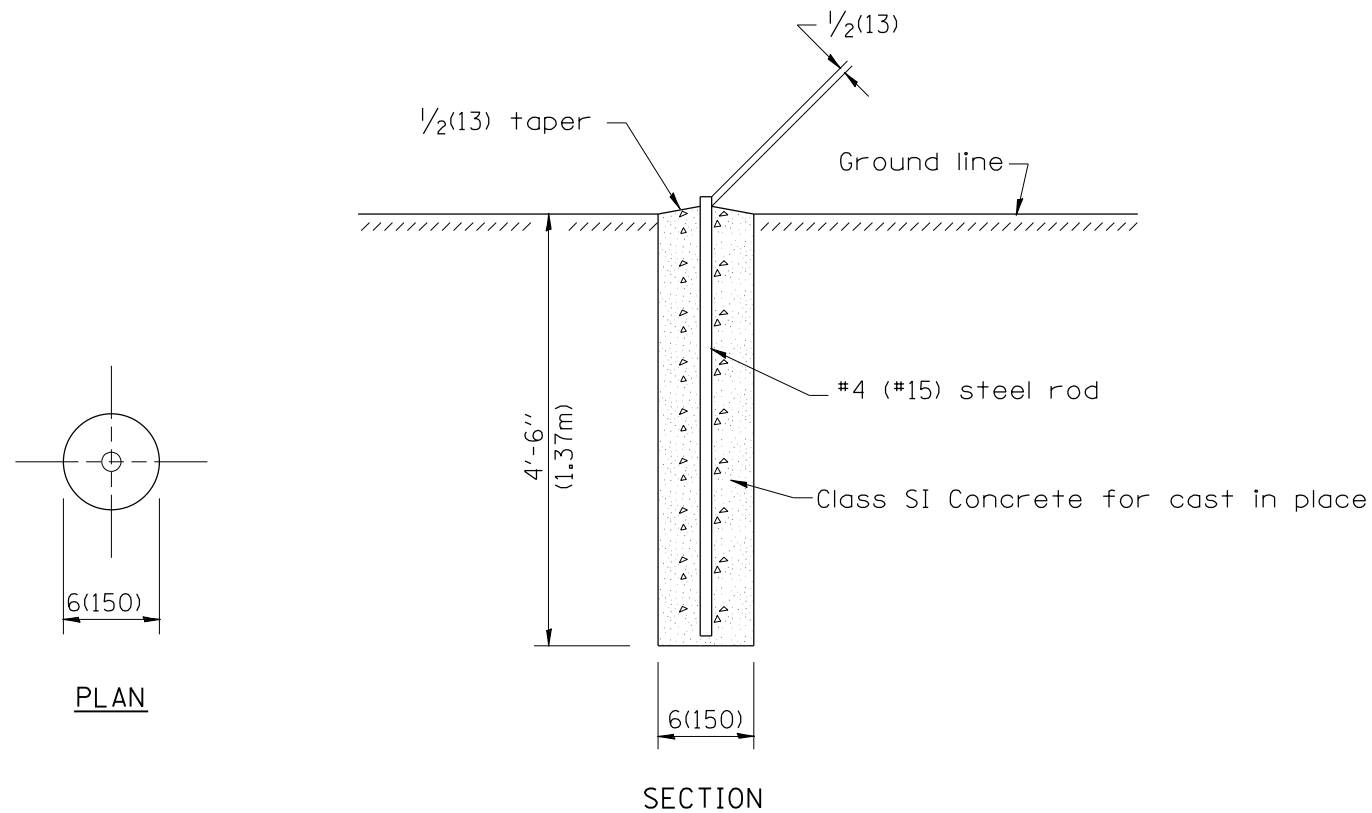
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



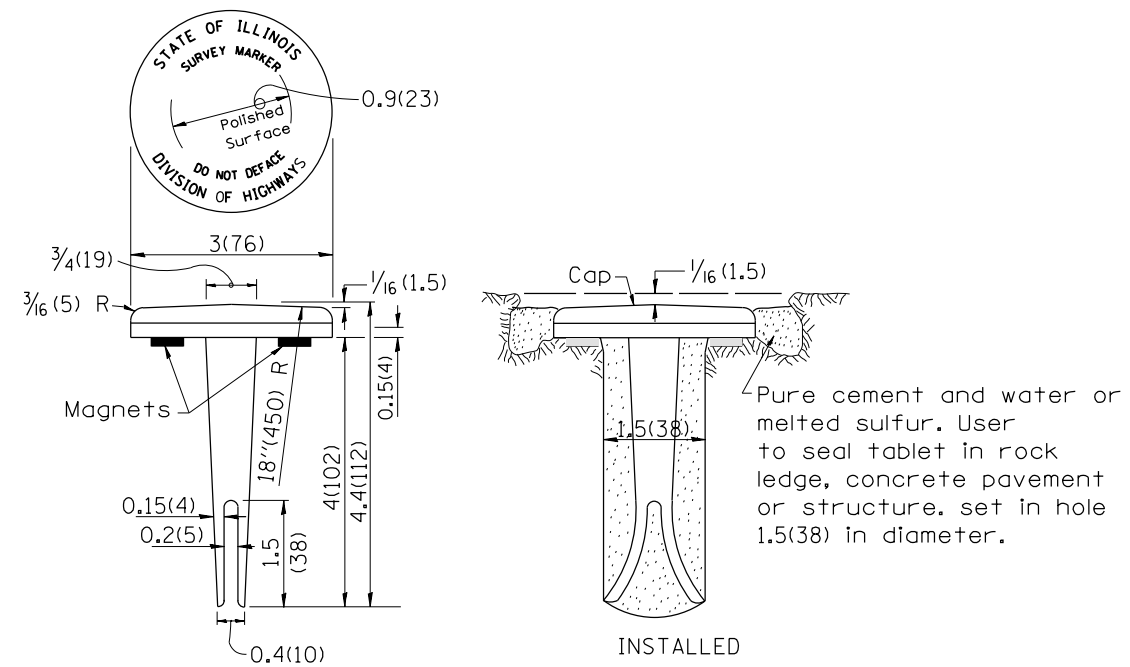
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



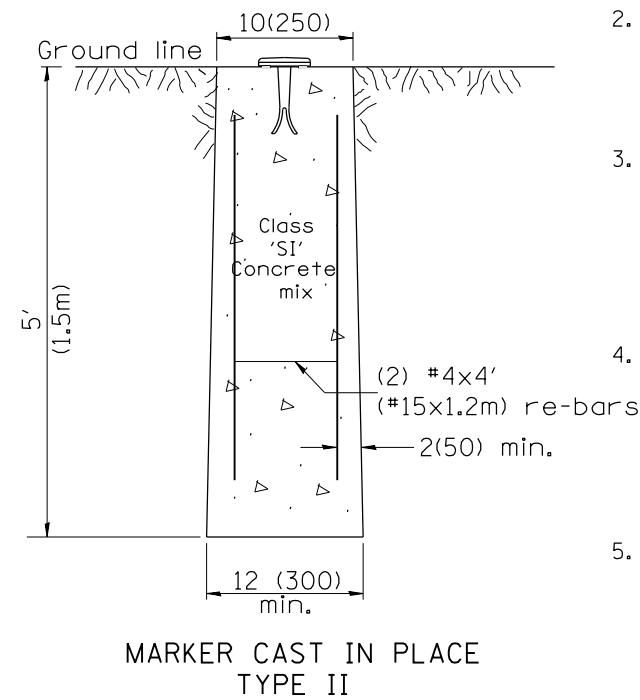
PERMANENT SURVEY MARKERS



TYPE I

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



MARKER CAST IN PLACE TYPE II

All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOTES:
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE.
 2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.
 4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.			
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

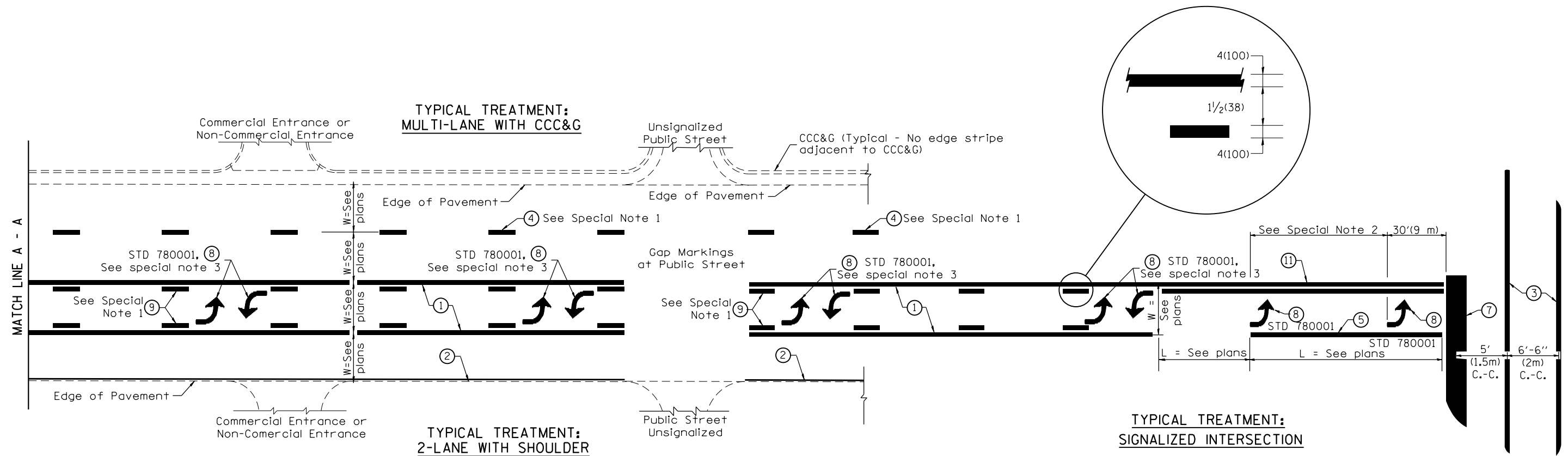
NOT TO SCALE

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**

CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	38
CONTRACT NO. 68757				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

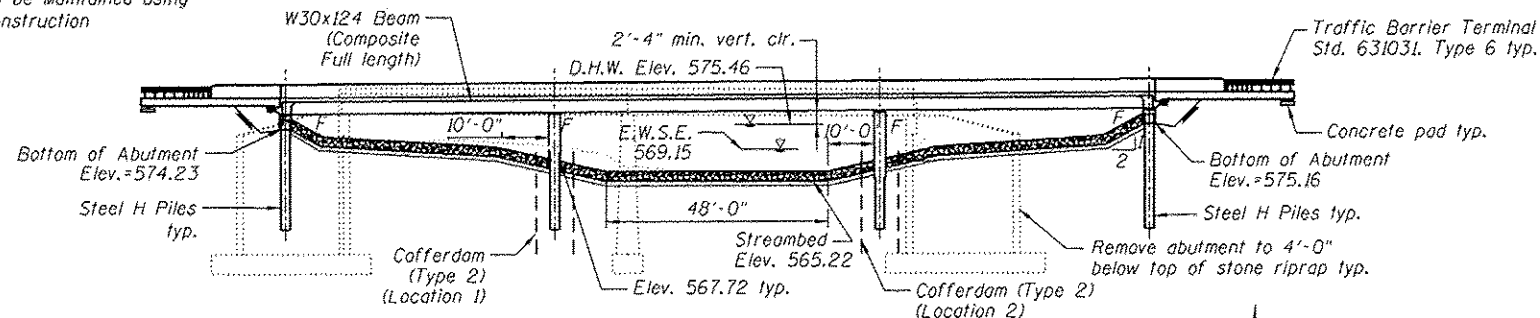
SHT. 1 OF 2
CADD STD. 780001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	39
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	

Bench Mark: U.S. Coast and Geodetic Survey brass disk set in the top of the south west wingwall of the State Route 9 bridge over Mud Creek. Elevation = 578.580

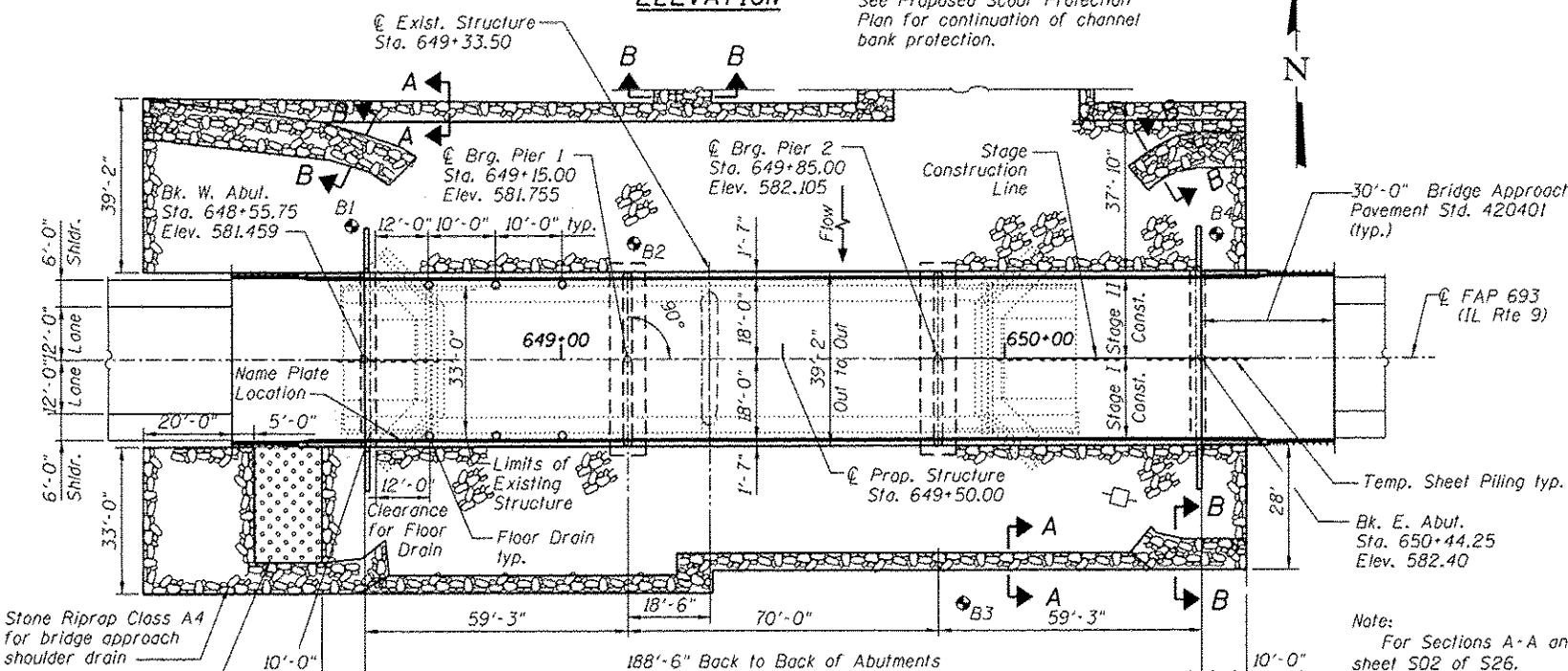
Existing Structure 090-0062: This Structure is a two simple span, precast, prestressed concrete multi-box beam bridge on closed concrete abutments and a concrete pier. It carries IL Route 9 at 0 degree skew over Mud Creek in Tazewell County. The original structure was built in 1928 as S.B.I. Rt 164 Sec 119B. The total length of the Structure is 126.21 feet from back to back of abutments, and it has a width of 33 feet. In 1975, under construction Route SBI Rt. 164, Sec. 119 BR, the original superstructure was removed and replaced with PPC box beams and a bituminous wearing surface. In 2008 temporary support was added at the pier and abutments. Existing structure to be removed. No salvage. (Existing upstream abandoned railroad sub-structure also to be removed). Existing temporary steel beams and supports to be delivered to the E. Peoria IDOT Bridge Yard (call 309-699-3822 to arrange for IDOT to unload when delivered).

Traffic to be Maintained using Staged construction



ELEVATION

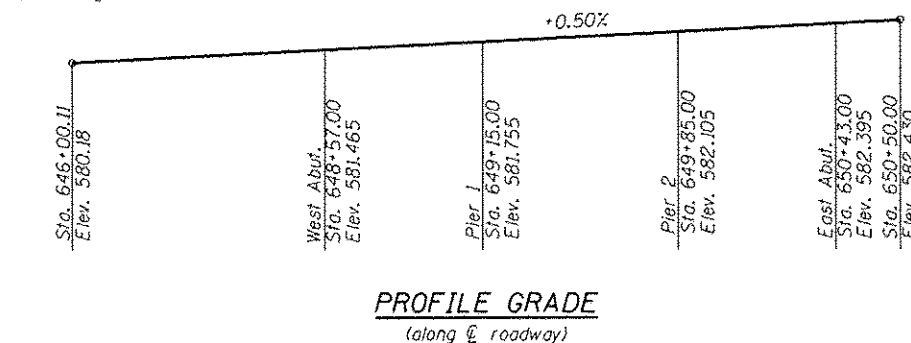
See Proposed Scour Protection Plan for continuation of channel bank protection.



PLAN

Stone Riprap Class A4 for bridge approach shoulder drain
Seeding, Class 2A
Separation between outside pile edge to existing wingwall footing is 1.5' typ.

Boring Location



PROFILE GRADE

(along \hat{c} roadway)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	574.36	558.8	558.8	575.31

WATERWAY INFORMATION

Drainage Area = 46,226 Sq.Mi. Low Grade Elev. 577.81 @ Sta. 642+67

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	5940	809	1084	575.5	2.7	0.8	578.2	576.3	
Base	100	6930	842	1133	575.7	3.2	1.1	579.0	576.9	
Overtopping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	9360	917	1247	576.4	4.7	2.0	581.1	578.4	

INDEX OF SHEETS

- S01 General Plan and Elevation
- S02 General Notes and Bill of Material
- S03 Stage Construction Details
- S04 Temporary Concrete Barrier for Stage Construction
- S05 Top of Slab Elevation Location Plan
- S06-S08 Top of Slab Elevations
- S09 Top of West Approach Slab Elevations
- S10 Top of East Approach Slab Elevations
- S11 Superstructure-Plan and Cross Section
- S12 Superstructure Details
- S12a Concrete Parapet Slipforming Option
- S13 Integral Abutment Diaphragm Details
- S14-S15 Bridge Approach Slab Details
- S16 Framing Plan
- S17-S18 Steel Details
- S19 West Abutment Plan and Elevation
- S20 East Abutment Plan and Elevation
- S21-S22 Pier Plan and Details
- S23 Bar Splicer Assembly Details
- S24 Pile Details
- S25-S26 Soil Borings

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition, with 2010 Interims

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

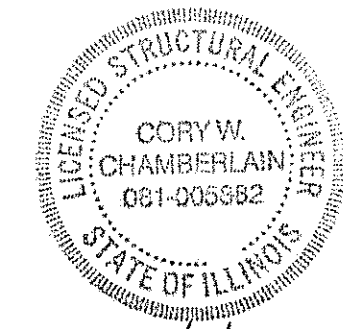
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{d1}) = 0.084g
Design Spectral Acceleration at 0.2 sec. (S_{d5}) = 0.143g
Soil Site Class = C

STATION 649+50.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 693
SECTION (119BR) BR
LOADING HL-93
STRUCTURE NO. 090-0178

NAME PLATE

See Std. 515001



Sheets: S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11, S12, S12a, S13, S16, S17, S18, S19, S20, S23, S24, S25, S26

Sheets: S14, S15, S21, S22

Expires: 11/30/2014

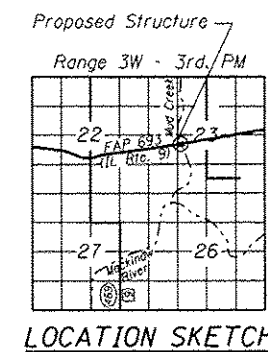
Expires: 11/30/2014

APPROVED

For Structural Adequacy Only

Engineer of Bridges & Structures

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 9 OVER MUD CREEK
F.A.P. RTE. 693 - SECTION (119BR) BR
TAZEWELL COUNTY
STATION 649+50.00
STRUCTURE NO. 090-0178



LOCATION SKETCH



USER NAME	DESIGNED	REVISIONS
FILE NAME: D:\68257-081-CP&E.dgn	BY: OY	REVISIONS:
PLOT SCALE: 48.00' / 1" =	CHECKED: DA	REVISIONS:
PLOT DATE: 1/21/2013	DRAWN: CM	REVISIONS:
	CHECKED: JB	REVISIONS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 090 - 0178

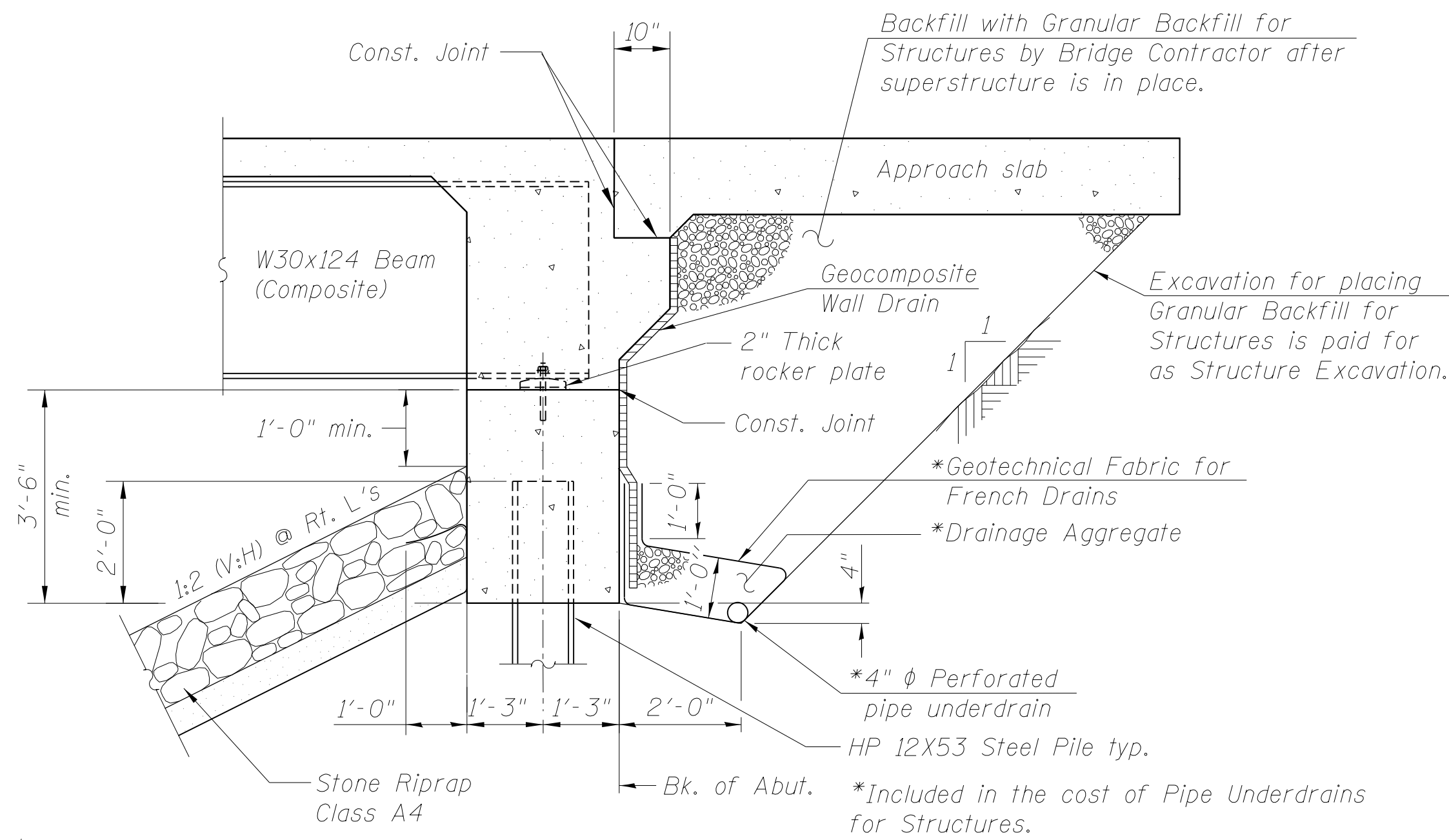
SHEET NO. S01 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	41

CONTRACT NO. 68757
ILLINOIS FED. AID PROJECT

GENERAL NOTES

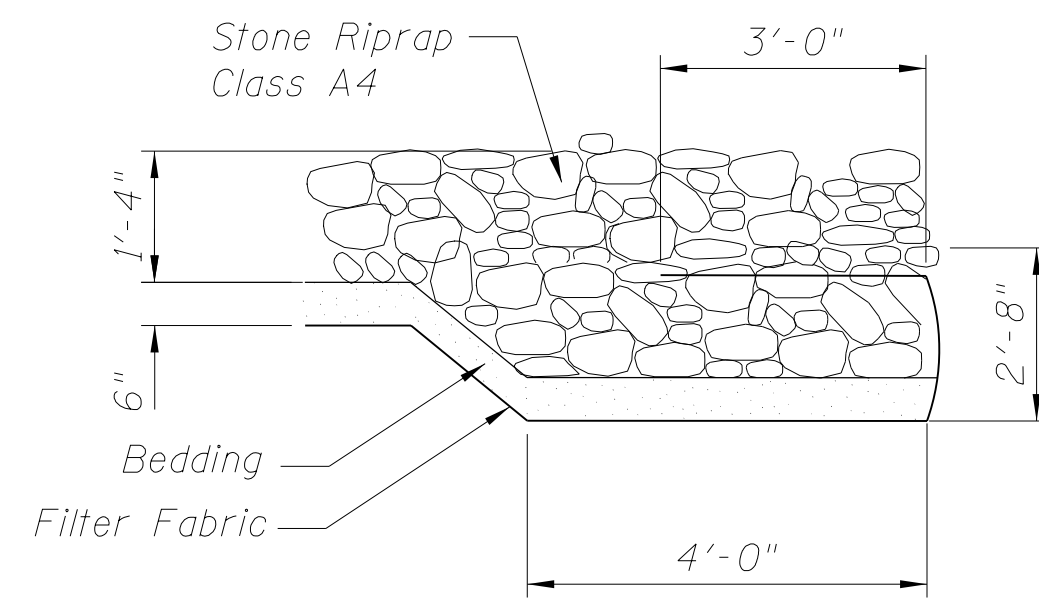
- Fasteners shall be ASTM A325, Type 1, mechanically galvanized bolts in painted areas, ASTM A325 Type 3 in unpainted areas. Bolts $\frac{5}{8}$ " ϕ , holes $\frac{5}{16}$ " ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 162,150 lbs
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridges, for preparation of the Structural Assessment Report(s). Contractor's pre-approval shall not be applicable for this project. See Special Provision.
- Current Ratings on File for Existing Structure
Inventory: HS 6
Operating: HS 10
Live Load Restrictions: None
Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.
- The Contractor is advised that the existing structure contains members with longitudinal cracks that are supported by temporary shoring that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the special provisions.



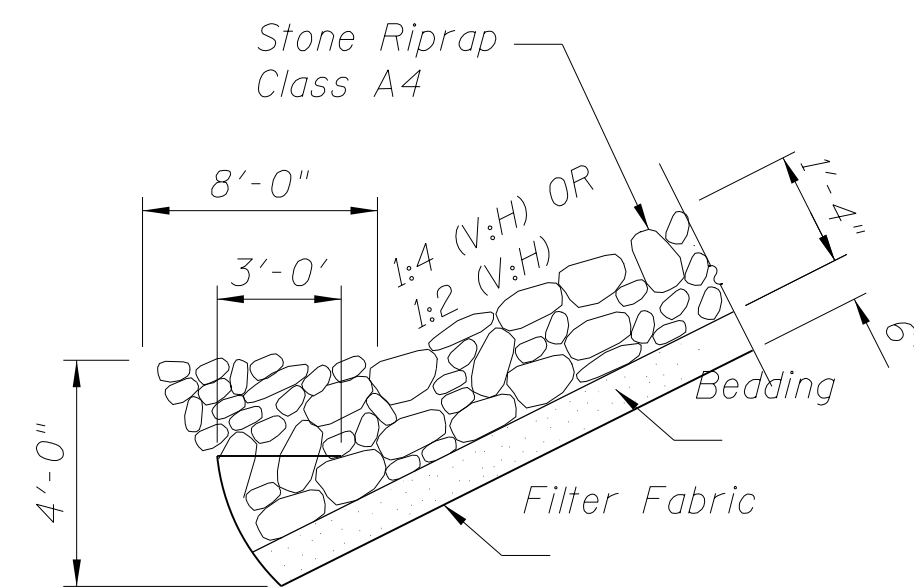
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)



**SECTION A-A
ANCHOR WALL THRU FLANK**



**SECTION B-B
THRU TOE**

See sheet S01 of S25 for Sections A-A and B-B.

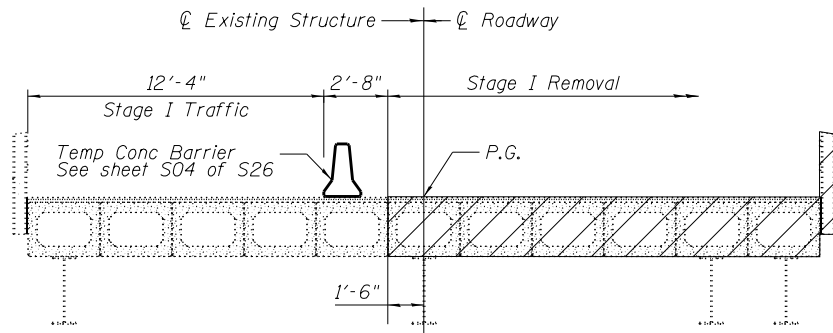
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	3255	3255
Filter Fabric	Sq. Yd.	-	3255	3255
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	258	258
Cofferdam Excavation	Cu. Yd.	-	353	353
Cofferdam (Type 2) (Location-1)	Each	-	1	1
Cofferdam (Type 2) (Location-2)	Each	-	1	1
Floor Drains	Each	6	-	6
Concrete Structures	Cu. Yd.	-	170.0	170.0
Concrete Superstructure	Cu. Yd.	364.5	-	364.5
Bridge Deck Grooving	Sq. Yd.	940	-	940
Seal Coat Concrete	Cu. Yd.	-	106.2	106.2
Concrete Encasement	Cu. Yd.	-	4.2	4.2
Protective Coat	Sq. Yd.	1177	-	1177
Furnishing and Erecting Structural Steel	L.Sum	1	-	1
Stud Shear Connectors	Each	4824	-	4824
Reinforcement Bars, Epoxy Coated	Pound	90,830	20,750	111,580
Bar Splicers	Each	727	262	989
Furnishing Steel Piles HP 12X53	Foot	-	600	600
Furnishing Steel Piles HP 14X73	Foot	-	610	610
Driving Piles	Foot	-	1210	1210
Test Pile Steel HP 12X53	Each	-	2	2
Test Pile Steel HP 14X73	Each	-	2	2
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	24	-	24
Anchor Bolts, 1/4"	Each	24	-	24
Geocomposite Wall Drain	Sq. Yd.	-	79	79
Granular Backfill for Structures	Cu. Yd.	-	132	132
Temporary Sheet Piling	Sq. Ft.	-	2363	2363
Pipe Underdrains for Structures 4"	Foot	-	158	158

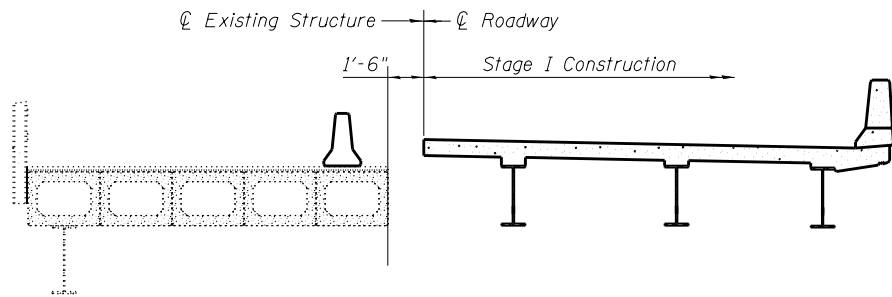
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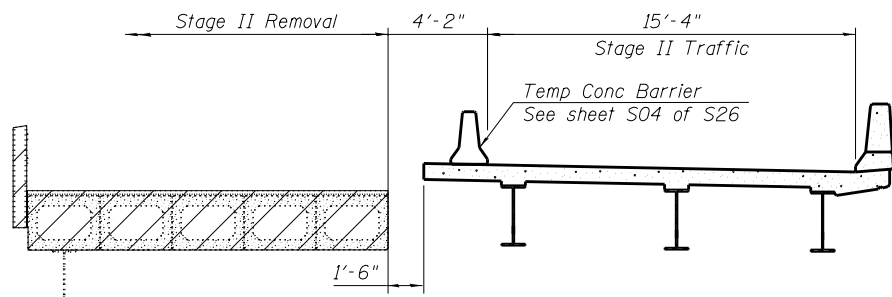
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693	(119BR) BR	TAZEWELL	80	42
				CONTRACT NO. 68757



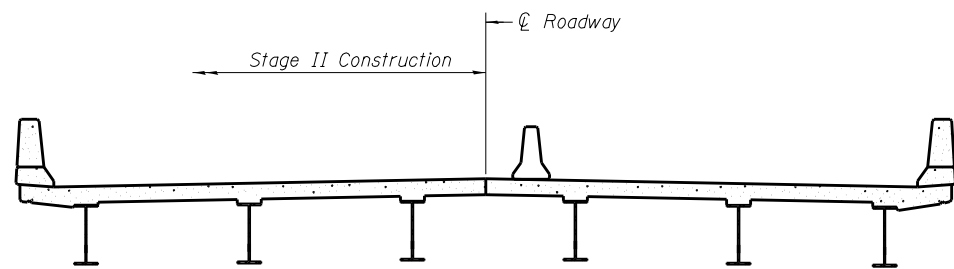
STAGE I REMOVAL



STAGE I CONSTRUCTION

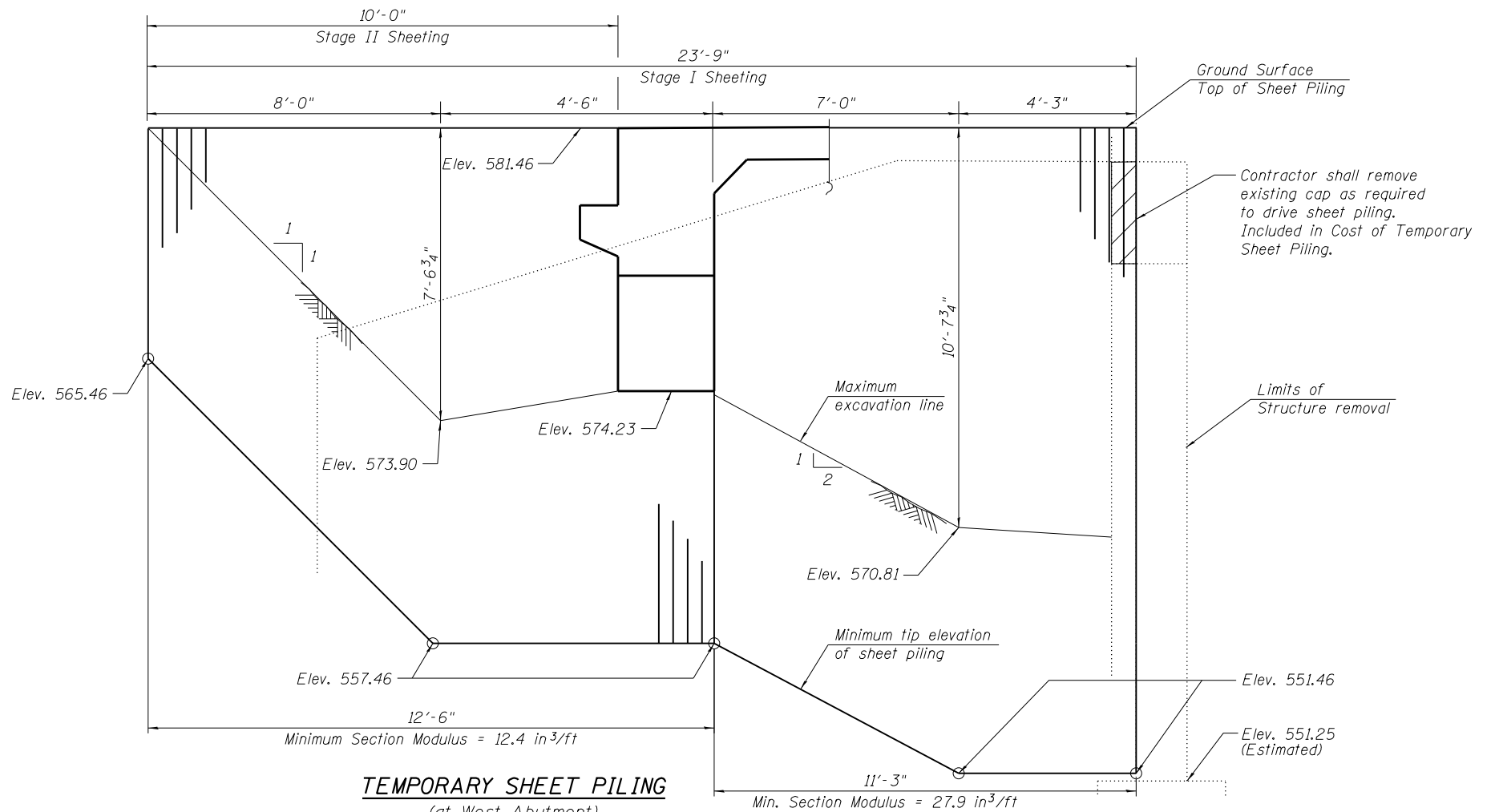


STAGE II REMOVAL



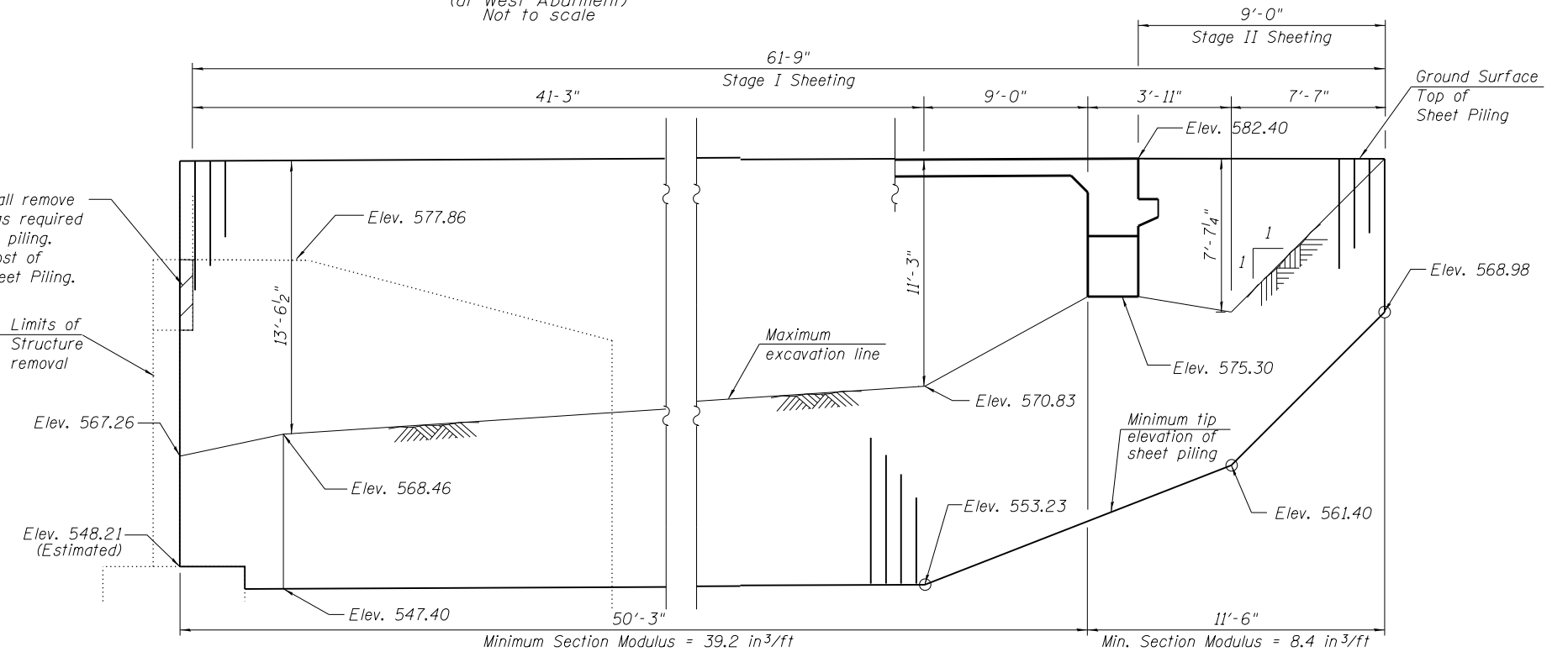
STAGE II CONSTRUCTION

- Notes:
1. All staging cross sections are looking East.
 2. For quantity of Temporary Concrete Barrier, see roadway plans.
 3. Hatched area indicates Removal of Existing Structures.
 4. Contractor shall support both temporary shoring beams on north side before removing deck beams and center shoring beam.
 5. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.



TEMPORARY SHEET PILING

(at West Abutment)
Not to scale



TEMPORARY SHEET PILING

(at East Abutment)
Not to scale

MAIL RT. 9, OLIVER ROAD, CREEKVIEW, ILLINOIS 60015, TEL: (815) 467-0280, FAX: (815) 467-0280, WWW.TERRAENGINEERING.COM



USER NAME = cvm	DESIGNED - OY	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

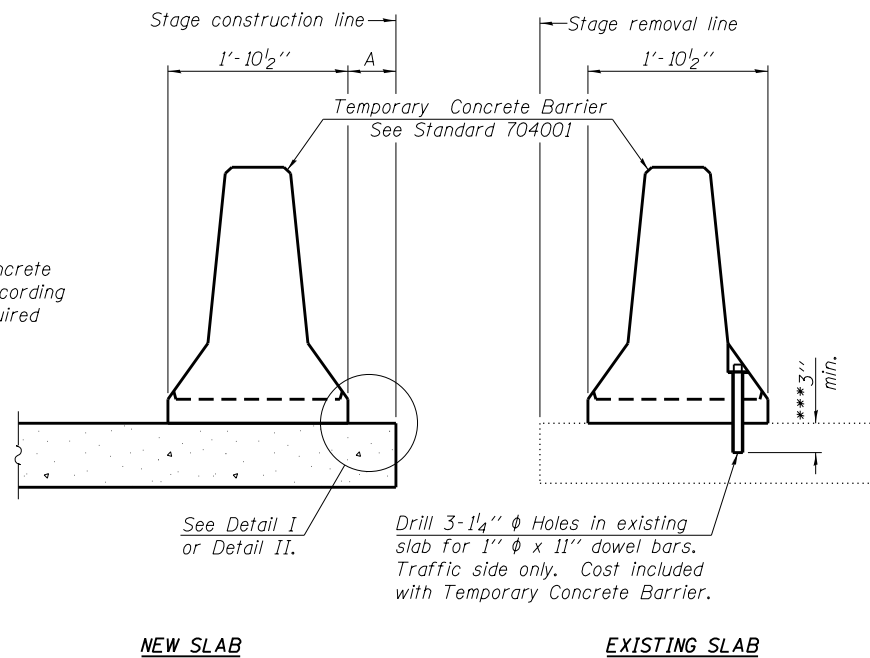
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 090 - 0178**

SHEET NO. S03 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	43
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

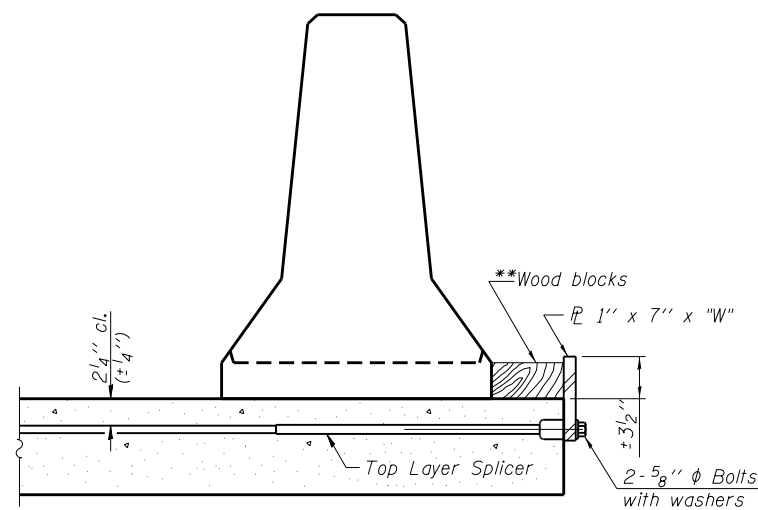
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" phi bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" phi Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

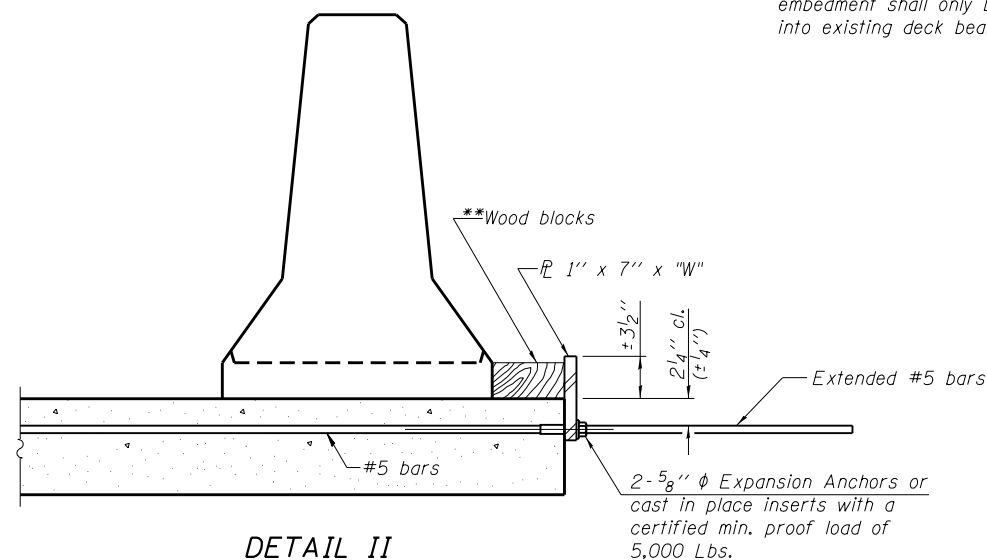
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

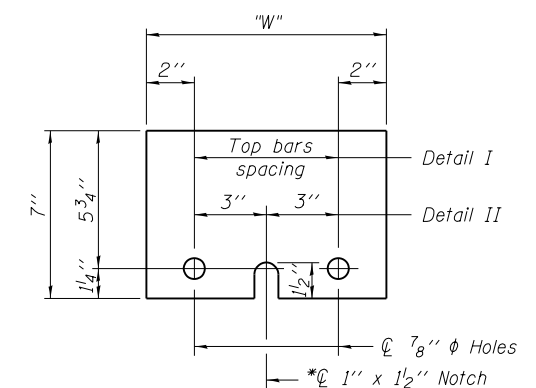
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

M:\JL RT - 9 OVER ROAD CREEK\CIVIL\CADD Sheets\Structural\Final Plans\SH1\0468757-004-temp.conc.barrier.dgn

TERRA ENGINEERING LTD.
225 W. OHIO ST., FOURTH FL.
CHICAGO, IL 60604
W(312)467-0123 F(312)467-0220
www.terraengineering.com

USER NAME = cvm
FILE NAME = D468757-004-temp.conc.barrier.dgn
PLOT SCALE = 0.1667 Ft / in.
PLOT DATE = 1/21/2013

DESIGNED - OY	REVISED -
CHECKED - DA	REVISED -
DRAWN - CM	REVISED -
CHECKED - JB	REVISED -

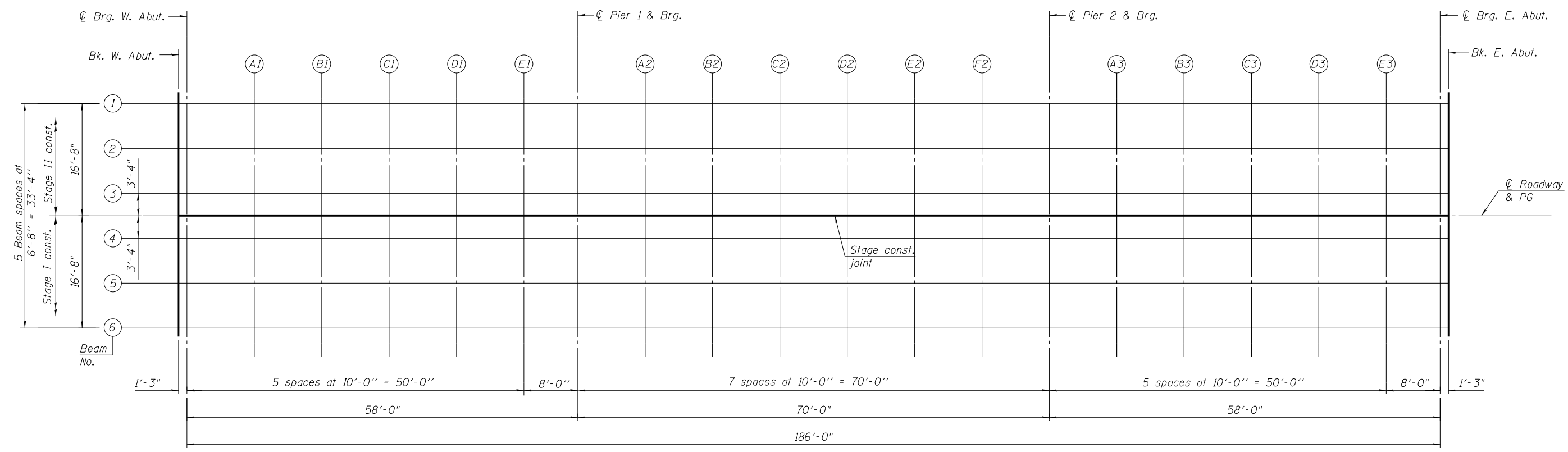
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 090 - 0178**

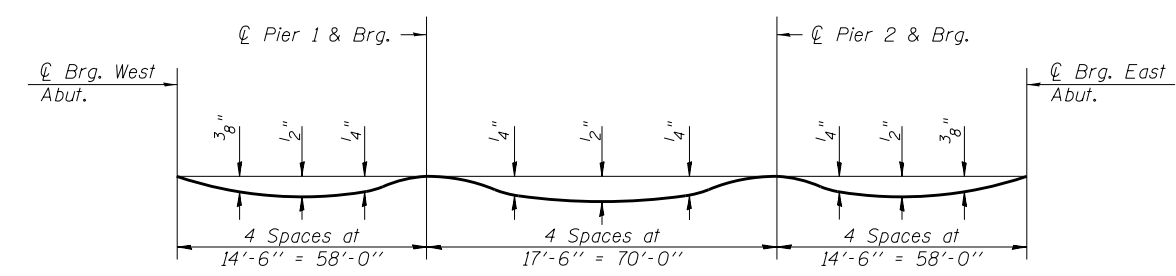
SHEET NO. S04 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	44
			CONTRACT NO. 68757	

ILLINOIS FED. AID PROJECT

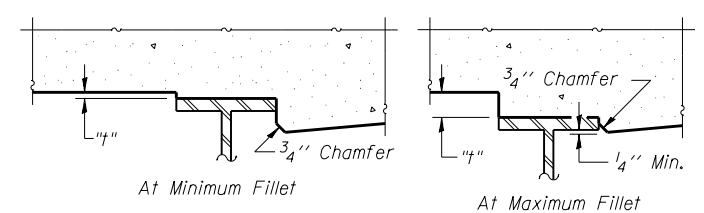


PLAN



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S06 thru S08 of S26.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets S06 thru S08 of S26, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

H:\JL RT - 9 OVER ROAD CREEK\CIVIL\CADD Sheets\Structural\Final Plans\SH1\0468757-005-TOS.Loc.Plan.dgn
 225 W. OHIO ST., FOURTH FL. CHICAGO, IL 60604
 W(312)467-0123 F(312)467-0220 www.terraengineering.com



USER NAME = cvm	DESIGNED - OY	REVISED -
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PLOT DATE = 1/21/2013	CHECKED - JB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION LOCATION PLAN
STRUCTURE NO. 090 - 0178**

SHEET NO. S05 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	45
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	-16.67	581.16	581.16
CL Brg. & W. Abut.	648+57.00	-16.67	581.17	581.17
A1	648+67.00	-16.67	581.22	581.24
B1	648+77.00	-16.67	581.27	581.30
C1	648+87.00	-16.67	581.32	581.36
D1	648+97.00	-16.67	581.37	581.40
E1	649+07.00	-16.67	581.42	581.43
CL Pier 1 & Brg.	649+15.00	-16.67	581.46	581.46
A2	649+25.00	-16.67	581.51	581.52
B2	649+35.00	-16.67	581.56	581.58
C2	649+45.00	-16.67	581.61	581.64
D2	649+55.00	-16.67	581.66	581.69
E2	649+65.00	-16.67	581.71	581.74
F2	649+75.00	-16.67	581.76	581.78
CL Pier 2 & Brg.	649+85.00	-16.67	581.81	581.81
A3	649+95.00	-16.67	581.86	581.87
B3	650+05.00	-16.67	581.91	581.94
C3	650+15.00	-16.67	581.96	582.00
D3	650+25.00	-16.67	582.01	582.05
E3	650+35.00	-16.67	582.06	582.08
CL Brg. & E. Abut.	650+43.00	-16.67	582.10	582.10
Bk. E. Abut.	650+44.25	-16.67	582.10	582.10

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	-10.00	581.30	581.30
CL Brg. & W. Abut.	648+57.00	-10.00	581.31	581.31
A1	648+67.00	-10.00	581.36	581.38
B1	648+77.00	-10.00	581.41	581.44
C1	648+87.00	-10.00	581.46	581.50
D1	648+97.00	-10.00	581.51	581.54
E1	649+07.00	-10.00	581.56	581.57
CL Pier 1 & Brg.	649+15.00	-10.00	581.60	581.60
A2	649+25.00	-10.00	581.65	581.66
B2	649+35.00	-10.00	581.70	581.72
C2	649+45.00	-10.00	581.75	581.78
D2	649+55.00	-10.00	581.80	581.83
E2	649+65.00	-10.00	581.85	581.88
F2	649+75.00	-10.00	581.90	581.92
CL Pier 2 & Brg.	649+85.00	-10.00	581.95	581.95
A3	649+95.00	-10.00	582.00	582.01
B3	650+05.00	-10.00	582.05	582.08
C3	650+15.00	-10.00	582.10	582.14
D3	650+25.00	-10.00	582.15	582.19
E3	650+35.00	-10.00	582.20	582.22
CL Brg. & E. Abut.	650+43.00	-10.00	582.24	582.24
Bk. E. Abut.	650+44.25	-10.00	582.25	582.25

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	-3.33	581.41	581.41
CL Brg. & W. Abut.	648+57.00	-3.33	581.41	581.41
A1	648+67.00	-3.33	581.46	581.48
B1	648+77.00	-3.33	581.51	581.54
C1	648+87.00	-3.33	581.56	581.60
D1	648+97.00	-3.33	581.61	581.64
E1	649+07.00	-3.33	581.66	581.67
CL Pier 1 & Brg.	649+15.00	-3.33	581.70	581.70
A2	649+25.00	-3.33	581.75	581.76
B2	649+35.00	-3.33	581.80	581.82
C2	649+45.00	-3.33	581.85	581.88
D2	649+55.00	-3.33	581.90	581.93
E2	649+65.00	-3.33	581.95	581.98
F2	649+75.00	-3.33	582.00	582.02
CL Pier 2 & Brg.	649+85.00	-3.33	582.05	582.05
A3	649+95.00	-3.33	582.10	582.11
B3	650+05.00	-3.33	582.15	582.18
C3	650+15.00	-3.33	582.20	582.24
D3	650+25.00	-3.33	582.25	582.29
E3	650+35.00	-3.33	582.30	582.32
CL Brg. & E. Abut.	650+43.00	-3.33	582.34	582.34
Bk. E. Abut.	650+44.25	-3.33	582.35	582.35

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 090 - 0178**

SHEET NO. S06 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	46
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

CL ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	0.00	581.46	581.46
CL Brg. & W. Abut.	648+57.00	0.00	581.47	581.47
A1	648+67.00	0.00	581.52	581.54
B1	648+77.00	0.00	581.57	581.60
C1	648+87.00	0.00	581.62	581.66
D1	648+97.00	0.00	581.67	581.70
E1	649+07.00	0.00	581.72	581.73
CL Pier 1 & Brg.	649+15.00	0.00	581.76	581.76
A2	649+25.00	0.00	581.81	581.82
B2	649+35.00	0.00	581.86	581.88
C2	649+45.00	0.00	581.91	581.94
D2	649+55.00	0.00	581.96	581.99
E2	649+65.00	0.00	582.01	582.04
F2	649+75.00	0.00	582.06	582.08
CL Pier 2 & Brg.	649+85.00	0.00	582.11	582.11
A3	649+95.00	0.00	582.16	582.17
B3	650+05.00	0.00	582.21	582.24
C3	650+15.00	0.00	582.26	582.30
D3	650+25.00	0.00	582.31	582.35
E3	650+35.00	0.00	582.36	582.38
CL Brg. & E. Abut.	650+43.00	0.00	582.40	582.40
Bk. E. Abut.	650+44.25	0.00	582.40	582.40

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	3.33	581.41	581.41
CL Brg. & W. Abut.	648+57.00	3.33	581.41	581.41
A1	648+67.00	3.33	581.46	581.48
B1	648+77.00	3.33	581.51	581.54
C1	648+87.00	3.33	581.56	581.60
D1	648+97.00	3.33	581.61	581.64
E1	649+07.00	3.33	581.66	581.67
CL Pier 1 & Brg.	649+15.00	3.33	581.70	581.70
A2	649+25.00	3.33	581.75	581.76
B2	649+35.00	3.33	581.80	581.82
C2	649+45.00	3.33	581.85	581.88
D2	649+55.00	3.33	581.90	581.93
E2	649+65.00	3.33	581.95	581.98
F2	649+75.00	3.33	582.00	582.02
CL Pier 2 & Brg.	649+85.00	3.33	582.05	582.05
A3	649+95.00	3.33	582.10	582.11
B3	650+05.00	3.33	582.15	582.18
C3	650+15.00	3.33	582.20	582.24
D3	650+25.00	3.33	582.25	582.29
E3	650+35.00	3.33	582.30	582.32
CL Brg. & E. Abut.	650+43.00	3.33	582.34	582.34
Bk. E. Abut.	650+44.25	3.33	582.35	582.35

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	10.00	581.30	581.30
CL Brg. & W. Abut.	648+57.00	10.00	581.31	581.31
A1	648+67.00	10.00	581.36	581.38
B1	648+77.00	10.00	581.41	581.44
C1	648+87.00	10.00	581.46	581.50
D1	648+97.00	10.00	581.51	581.54
E1	649+07.00	10.00	581.56	581.57
CL Pier 1 & Brg.	649+15.00	10.00	581.60	581.60
A2	649+25.00	10.00	581.65	581.66
B2	649+35.00	10.00	581.70	581.72
C2	649+45.00	10.00	581.75	581.78
D2	649+55.00	10.00	581.80	581.83
E2	649+65.00	10.00	581.85	581.88
F2	649+75.00	10.00	581.90	581.92
CL Pier 2 & Brg.	649+85.00	10.00	581.95	581.95
A3	649+95.00	10.00	582.00	582.01
B3	650+05.00	10.00	582.05	582.08
C3	650+15.00	10.00	582.10	582.14
D3	650+25.00	10.00	582.15	582.19
E3	650+35.00	10.00	582.20	582.22
CL Brg. & E. Abut.	650+43.00	10.00	582.24	582.24
Bk. E. Abut.	650+44.25	10.00	582.25	582.25

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 090 - 0178**

SHEET NO. 507 OF 526 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	47
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	648+55.75	16.67	581.16	581.16
CL Brg. & W. Abut.	648+57.00	16.67	581.17	581.17
A1	648+67.00	16.67	581.22	581.24
B1	648+77.00	16.67	581.27	581.30
C1	648+87.00	16.67	581.32	581.36
D1	648+97.00	16.67	581.37	581.40
E1	649+07.00	16.67	581.42	581.43
CL Pier 1 & Brg.	649+15.00	16.67	581.46	581.46
A2	649+25.00	16.67	581.51	581.52
B2	649+35.00	16.67	581.56	581.58
C2	649+45.00	16.67	581.61	581.64
D2	649+55.00	16.67	581.66	581.69
E2	649+65.00	16.67	581.71	581.74
F2	649+75.00	16.67	581.76	581.78
CL Pier 2 & Brg.	649+85.00	16.67	581.81	581.81
A3	649+95.00	16.67	581.86	581.87
B3	650+05.00	16.67	581.91	581.94
C3	650+15.00	16.67	581.96	582.00
D3	650+25.00	16.67	582.01	582.05
E3	650+35.00	16.67	582.06	582.08
CL Brg. & E. Abut.	650+43.00	16.67	582.10	582.10
Bk. E. Abut.	650+44.25	16.67	582.10	582.10

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 090 - 0178**

SHEET NO. 508 OF 526 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68757	

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appt. Pav't.	648+25.75	-18.00	581.00
A	648+35.75	-18.00	581.05
B	648+45.75	-18.00	581.10
Bk. of W. Abut.	648+55.75	-18.00	581.15

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appt. Pav't.	648+25.75	-12.00	581.12
A	648+35.75	-12.00	581.17
B	648+45.75	-12.00	581.22
Bk. of W. Abut.	648+55.75	-12.00	581.27

PROFILE GRADE & BASELINE

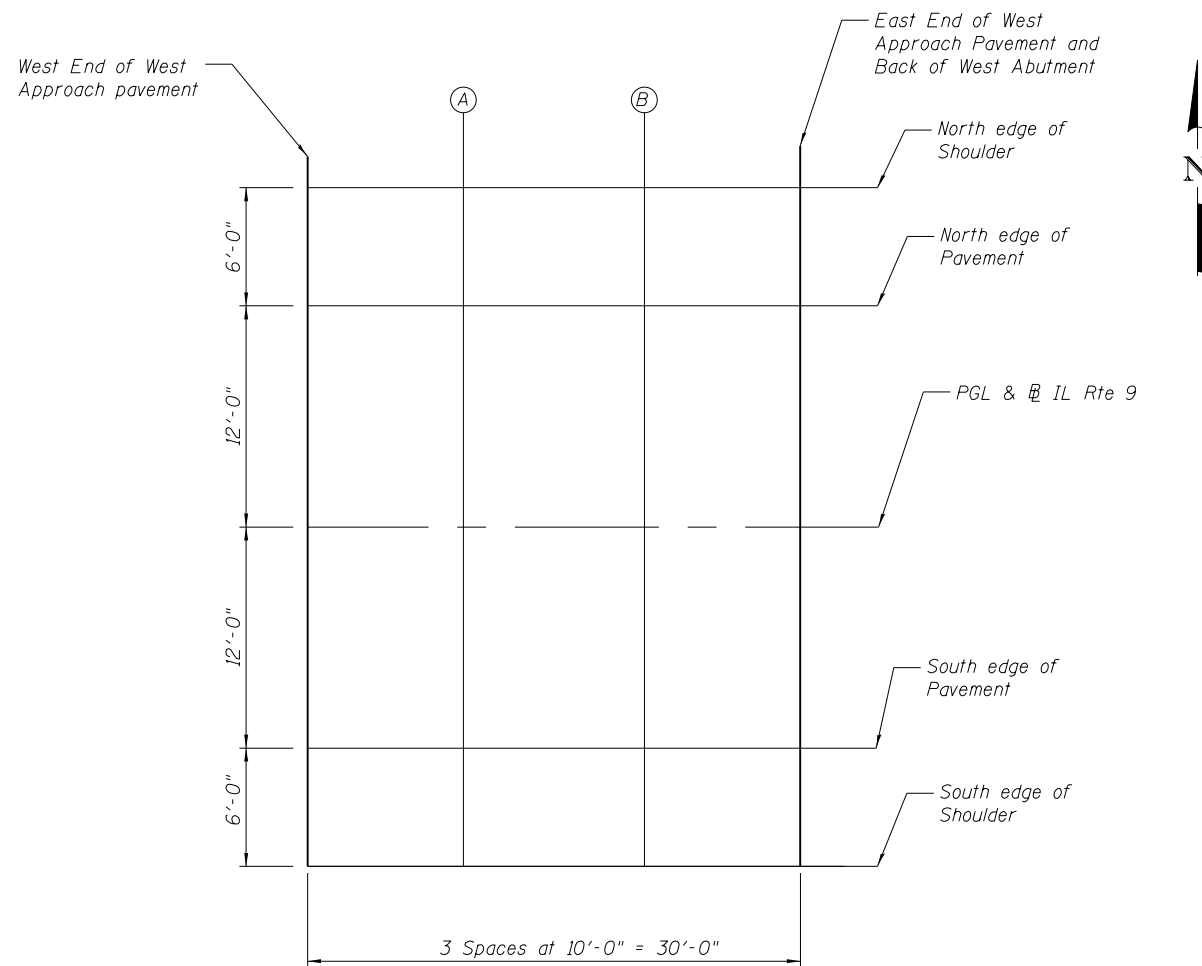
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appt. Pav't.	648+25.75	0.00	581.31
A	648+35.75	0.00	581.36
B	648+45.75	0.00	581.41
Bk. of W. Abut.	648+55.75	0.00	581.46

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appt. Pav't.	648+25.75	12.00	581.12
A	648+35.75	12.00	581.17
B	648+45.75	12.00	581.22
Bk. of W. Abut.	648+55.75	12.00	581.27

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appt. Pav't.	648+25.75	18.00	581.00
A	648+35.75	18.00	581.05
B	648+45.75	18.00	581.10
Bk. of W. Abut.	648+55.75	18.00	581.15



PLAN
West Approach

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NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appt. Pav't.	650+44.25	-18.00	582.09
C	650+54.25	-18.00	582.14
D	650+64.25	-18.00	582.19
Bk. of E. Abut.	650+74.25	-18.00	582.24

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appt. Pav't.	650+44.25	-12.00	582.21
C	650+54.25	-12.00	582.26
D	650+64.25	-12.00	582.31
Bk. of E. Abut.	650+74.25	-12.00	582.36

PROFILE GRADE & BASELINE

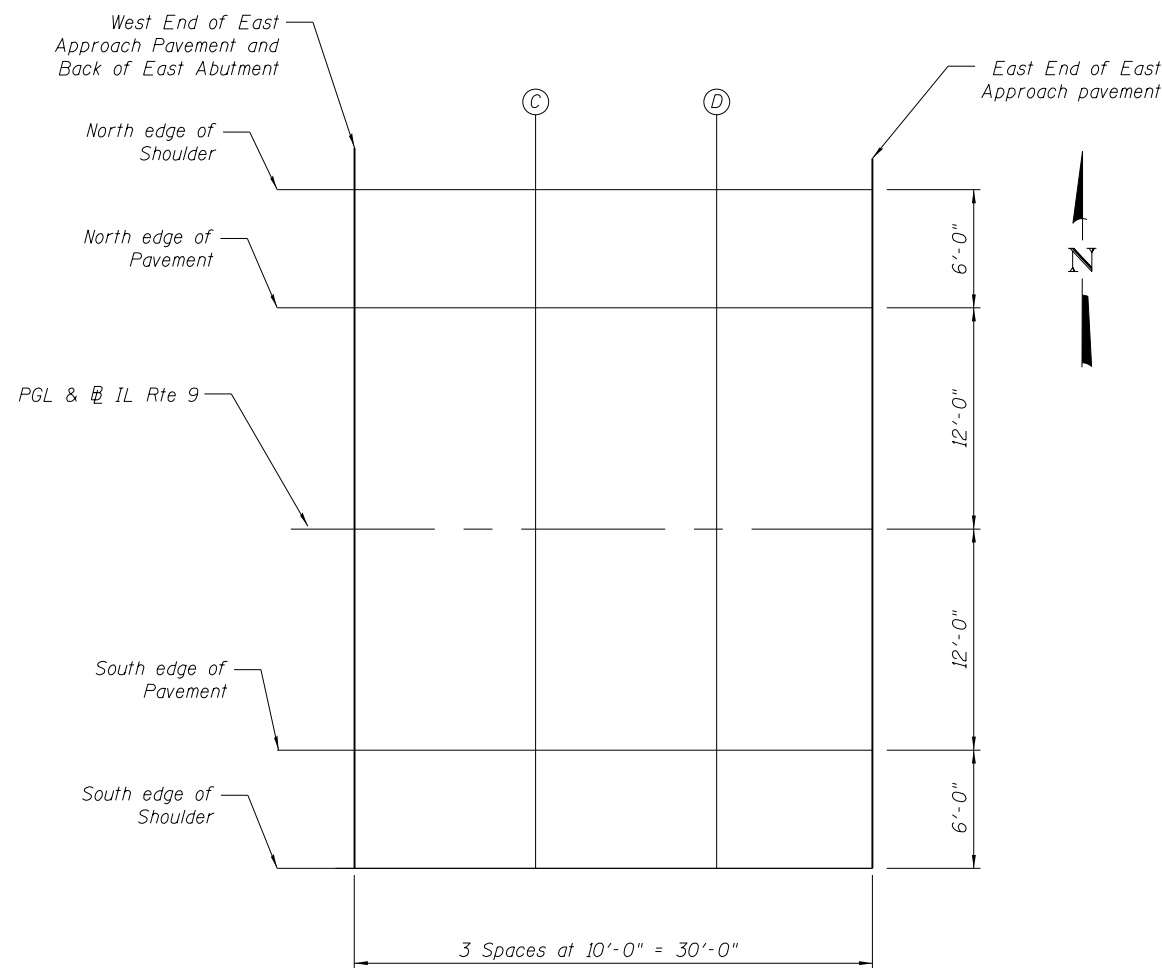
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appt. Pav't.	650+44.25	0.00	582.40
C	650+54.25	0.00	582.45
D	650+64.25	0.00	582.50
Bk. of E. Abut.	650+74.25	0.00	582.55

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appt. Pav't.	650+44.25	12.00	582.21
C	650+54.25	12.00	582.26
D	650+64.25	12.00	582.31
Bk. of E. Abut.	650+74.25	12.00	582.36

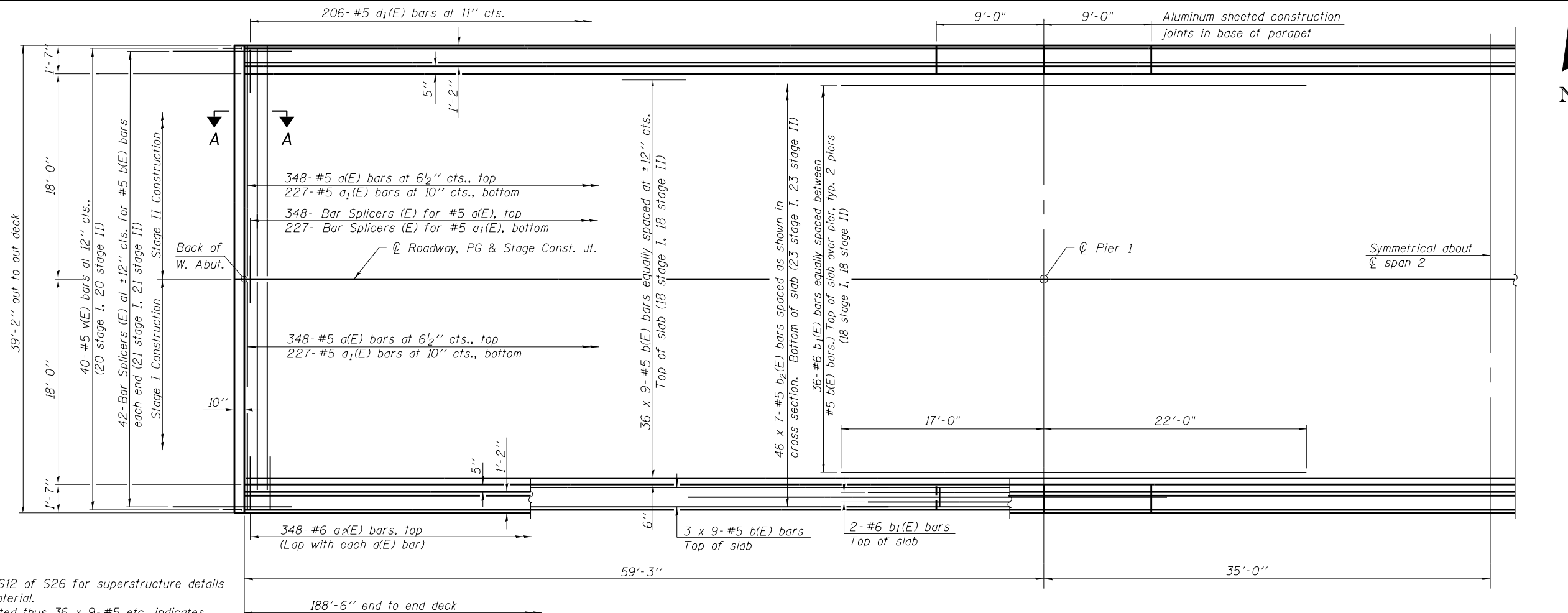
SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appt. Pav't.	650+44.25	18.00	582.09
C	650+54.25	18.00	582.14
D	650+64.25	18.00	582.19
Bk. of E. Abut.	650+74.25	18.00	582.24



PLAN
East Approach

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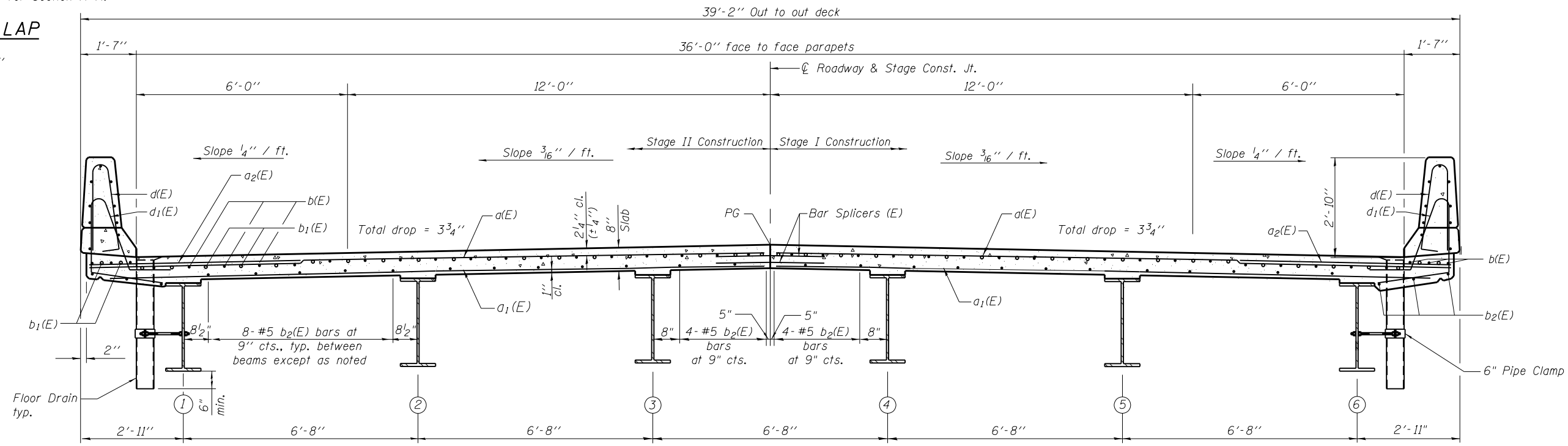


Notes:
 See sheet S12 of S26 for superstructure details and Bill of Material.
 Bars indicated thus 36 x 9-#5 etc. indicates 36 lines of bars with 9 lengths per line.
 See sheet S12 of S26 for parapet reinforcement and see sheet S13 of S26 for Section A-A.

HALF PLAN

MINIMUM BAR LAP

(Slab)
 #5 bar = 2'-7"



CROSS SECTION
 (Looking East)

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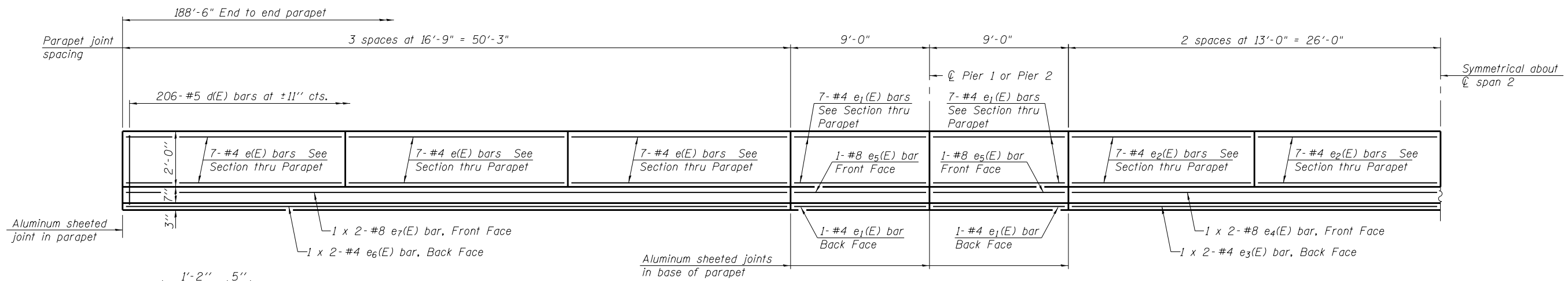
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**SUPERSTRUCTURE-PLAN AND CROSS SECTION
 STRUCTURE NO. 090 - 0178**

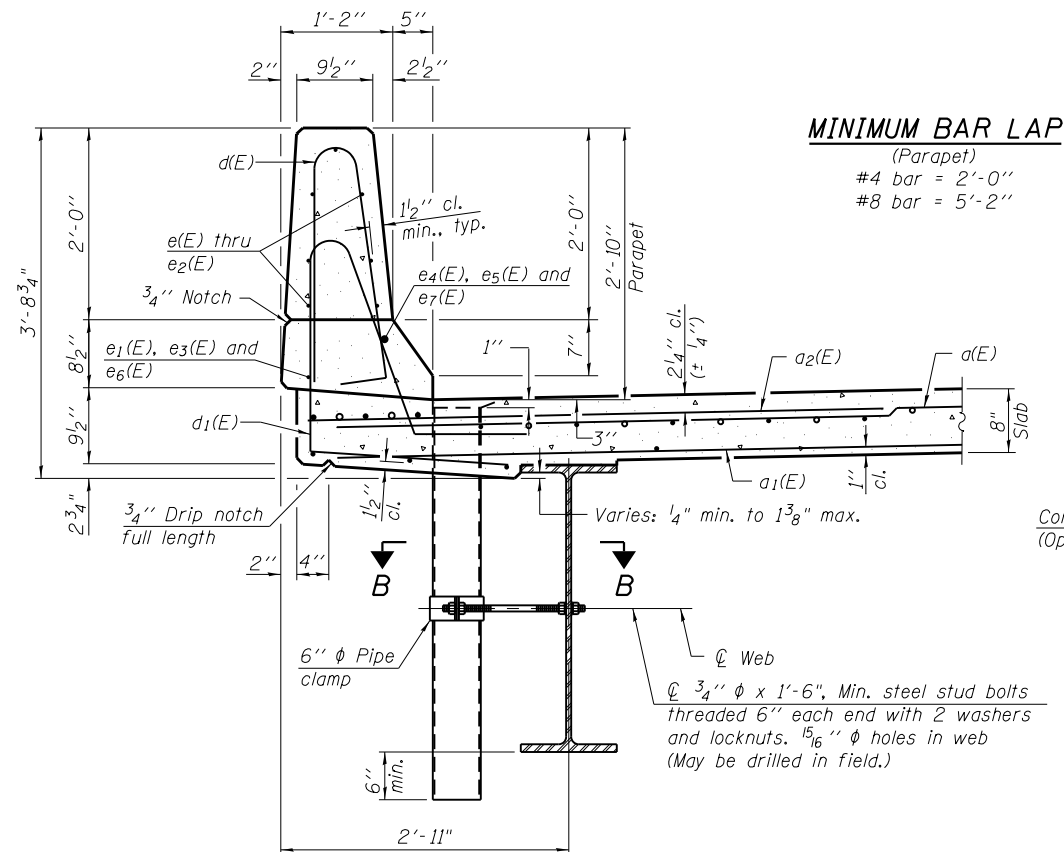
SHEET NO. S11 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	51
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

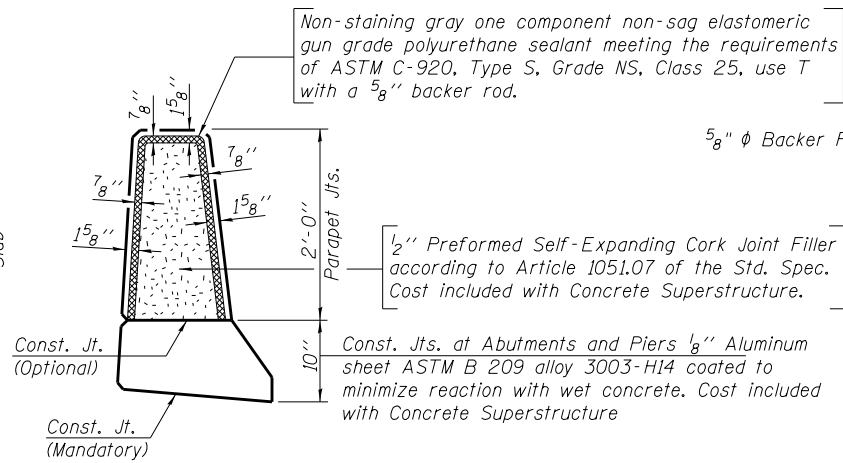


INSIDE ELEVATION OF PARAPET
(Looking at North parapet - South parapet similar)



SECTION THRU PARAPET

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



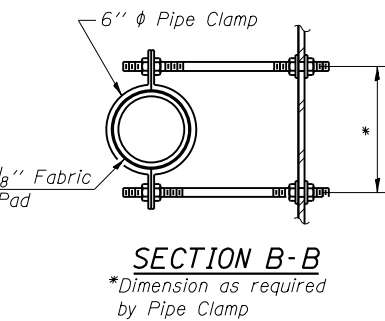
PARAPET JOINT DETAILS

Notes:
Floor drains need not be painted.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

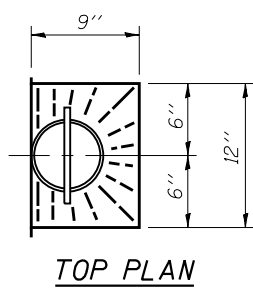
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	696	#5	19'-0"	—
a1(E)	454	#5	19'-0"	—
a2(E)	696	#6	6'-6"	—
b(E)	378	#5	23'-3"	—
b1(E)	80	#6	39'-0"	—
b2(E)	322	#5	29'-6"	—
d(E)	412	#5	5'-7"	⌒
d1(E)	412	#5	7'-8"	⌒
e(E)	84	#4	16'-6"	—
e1(E)	64	#4	8'-9"	—
e2(E)	56	#4	12'-9"	—
e3(E)	4	#4	26'-11"	—
e4(E)	4	#8	28'-6"	—
e5(E)	8	#8	8'-9"	—
e6(E)	8	#4	26'-0"	—
e7(E)	8	#8	27'-7"	—
m(E)	20	#6	19'-3"	—
m1(E)	24	#6	8'-9"	—
m2(E)	4	#6	2'-6"	—
m3(E)	8	#6	6'-4"	—
m4(E)	4	#6	3'-0"	—
s(E)	84	#5	6'-10"	⌒
s1(E)	84	#4	9'-4"	⌒
v(E)	80	#5	3'-9"	⌒
Reinforcement Bars, Epoxy Coated			Pound	64,540
Concrete Superstructure			Cu. Yds.	247.4
Floor Drains			Each	6

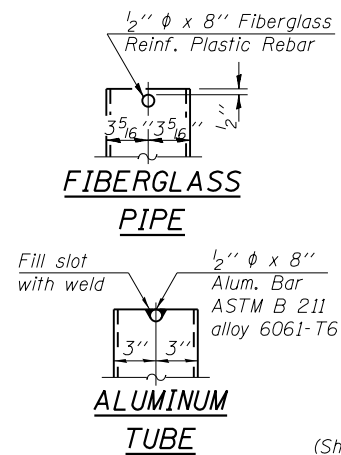
Bars indicated thus 1 x 2 - #5 etc. indicates 1 line of bars with 2 lengths per line.



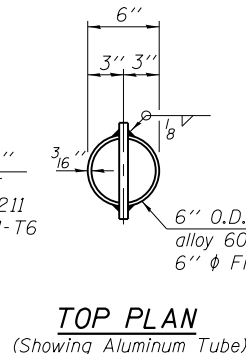
SECTION B-B
*Dimension as required by Pipe Clamp



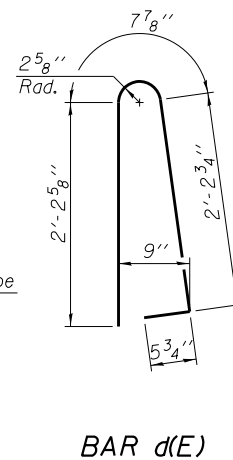
TOP PLAN



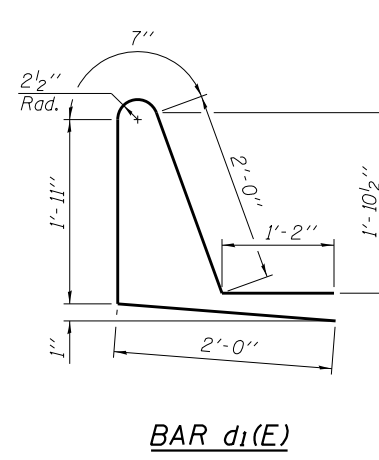
ALUMINUM TUBE



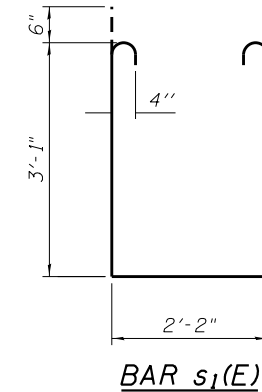
TOP PLAN
(Showing Aluminum Tube)



BAR d(E)

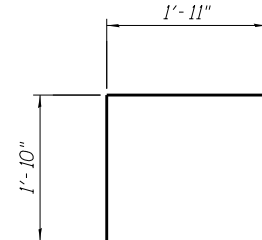


BAR d1(E)



BAR s(E)

BAR s1(E)

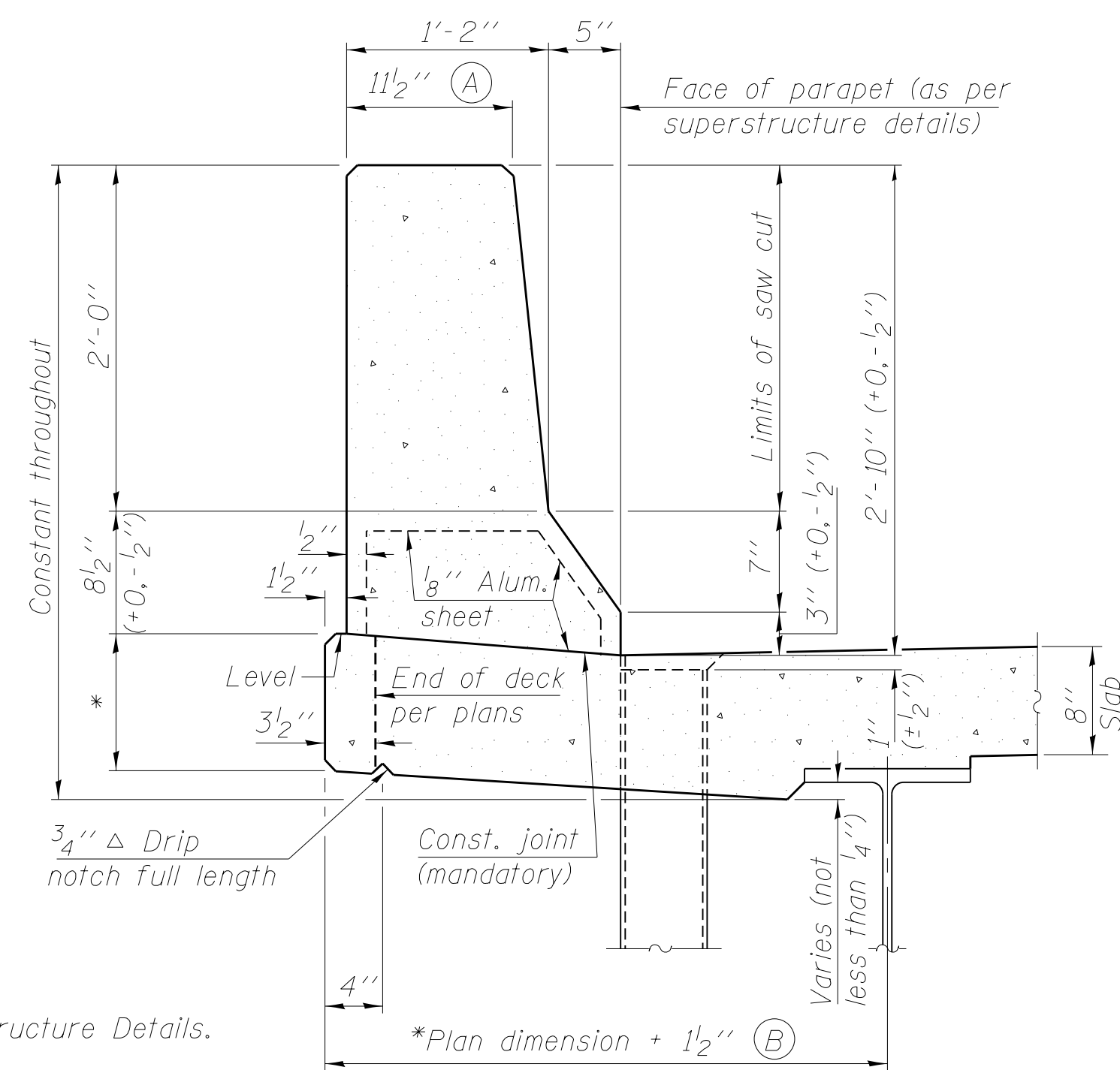


BAR v(E)

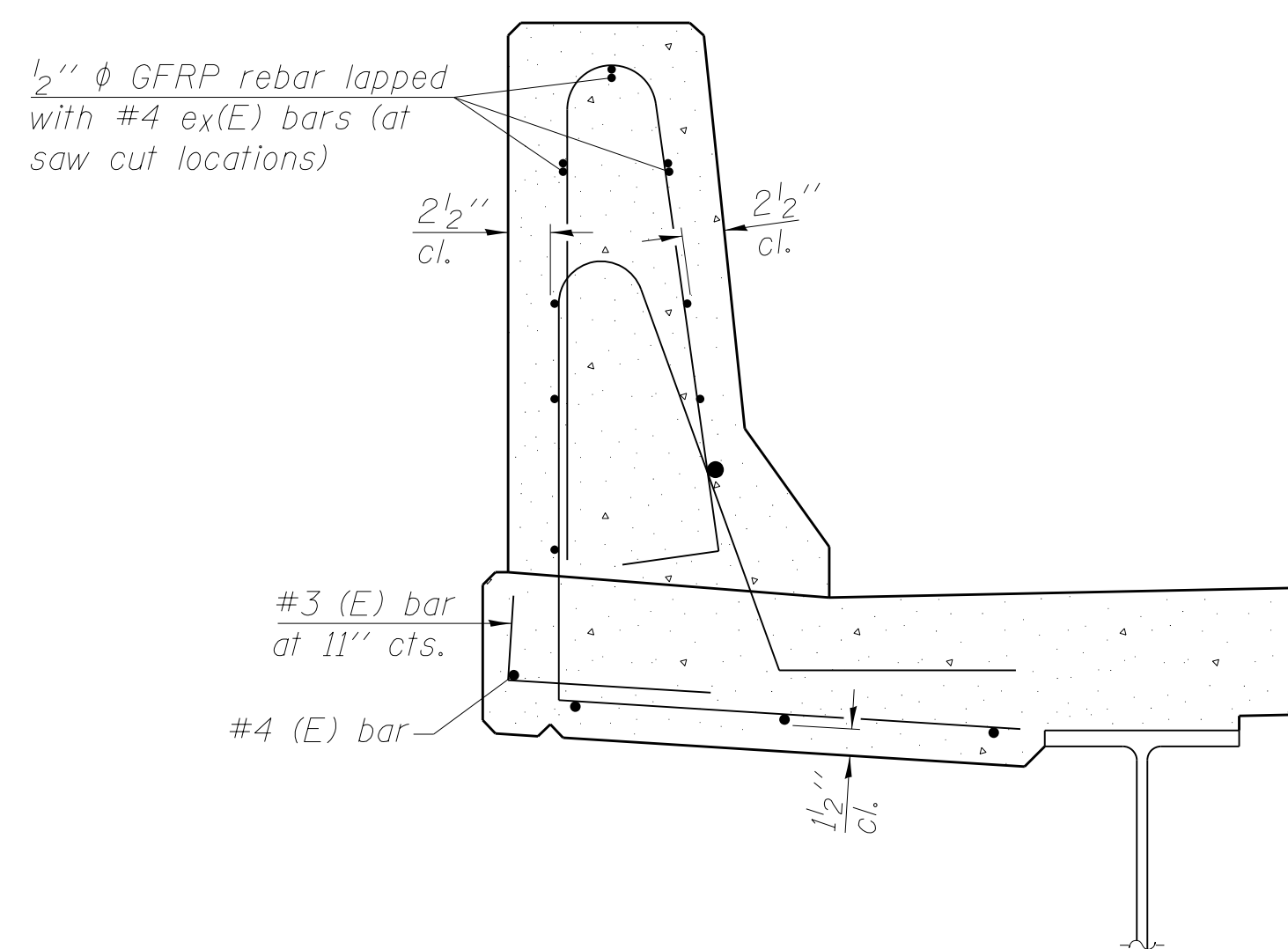
MAIL RT. 9, OVER ROAD, CREEKVIEW, CADDO Sheets\Structure\1\In\mat. Plans\SH1\0468757-012-super details.dgn

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.

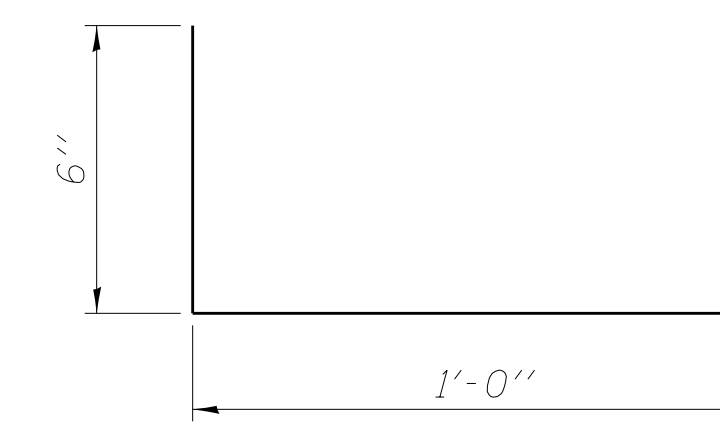


34" F SHAPE PARAPET SECTION
(Showing dimensions)

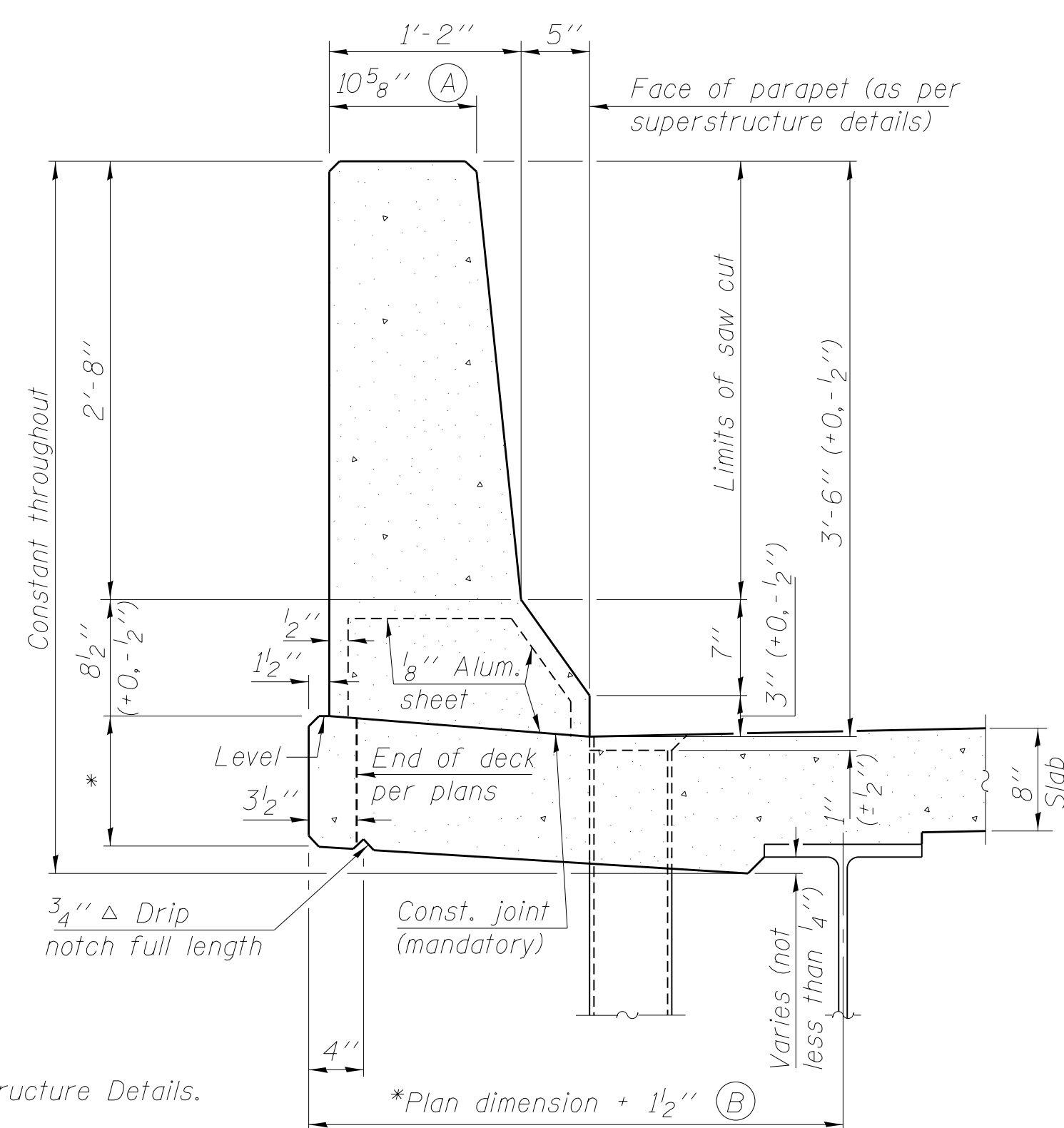


SECTION

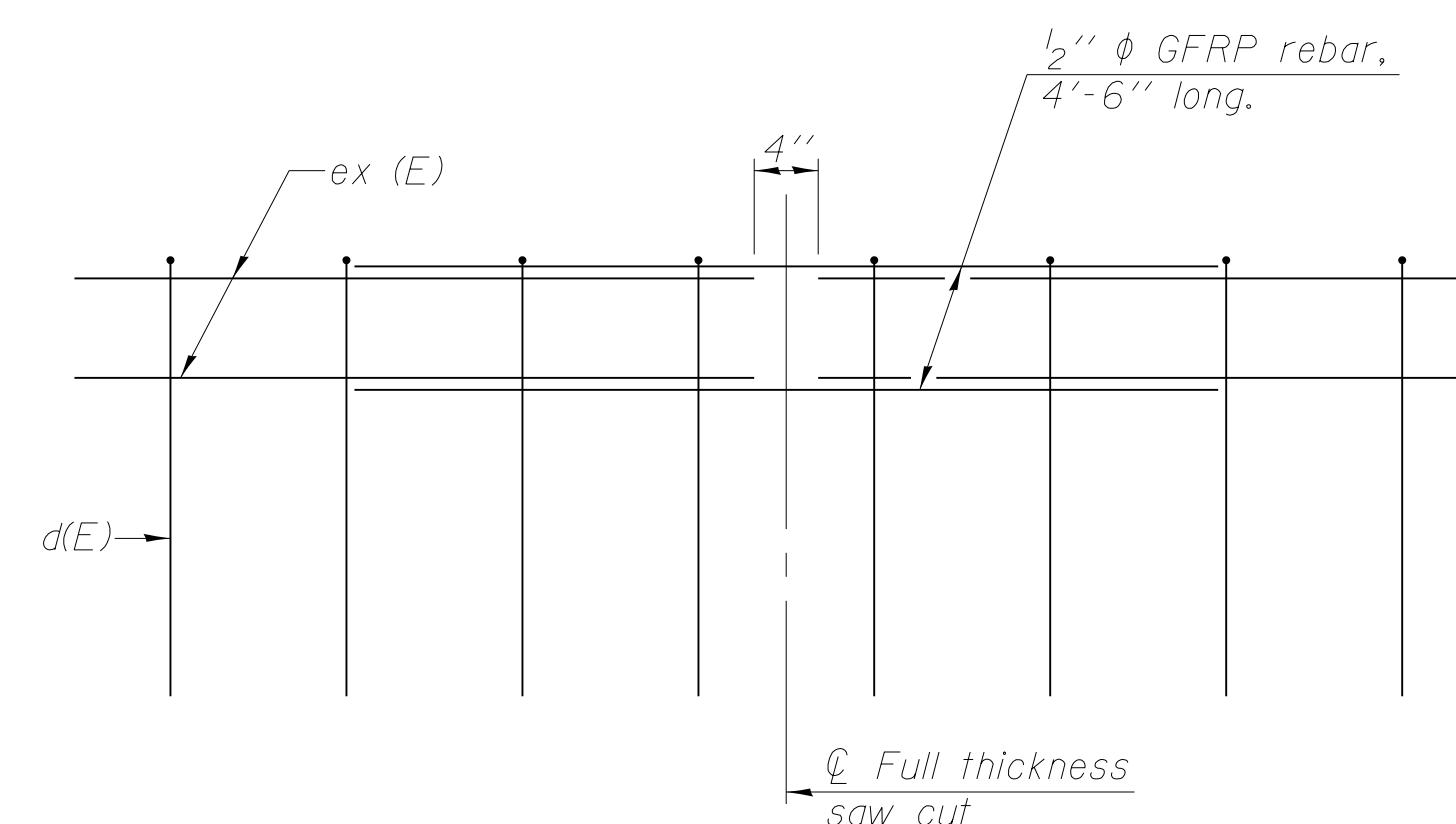
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR

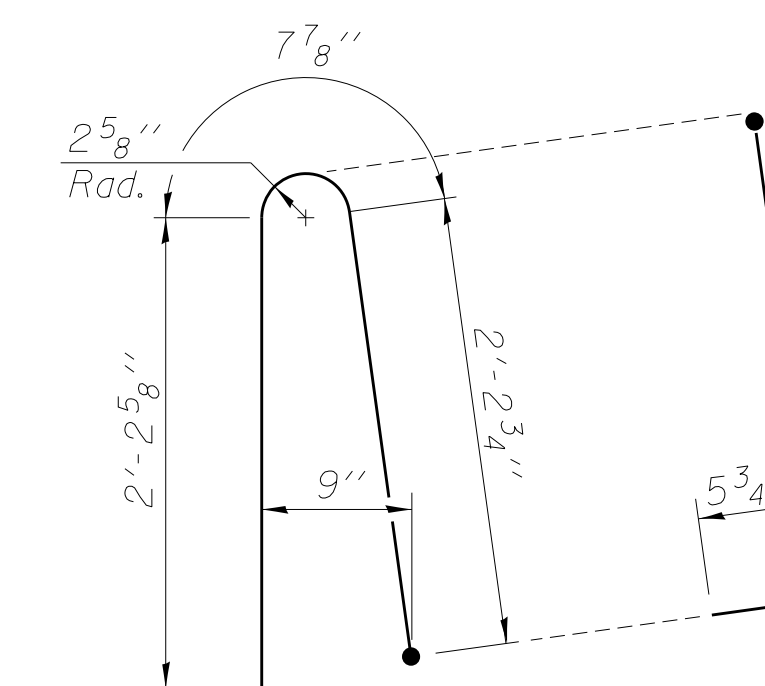


42" F SHAPE PARAPET SECTION
(Showing dimensions)

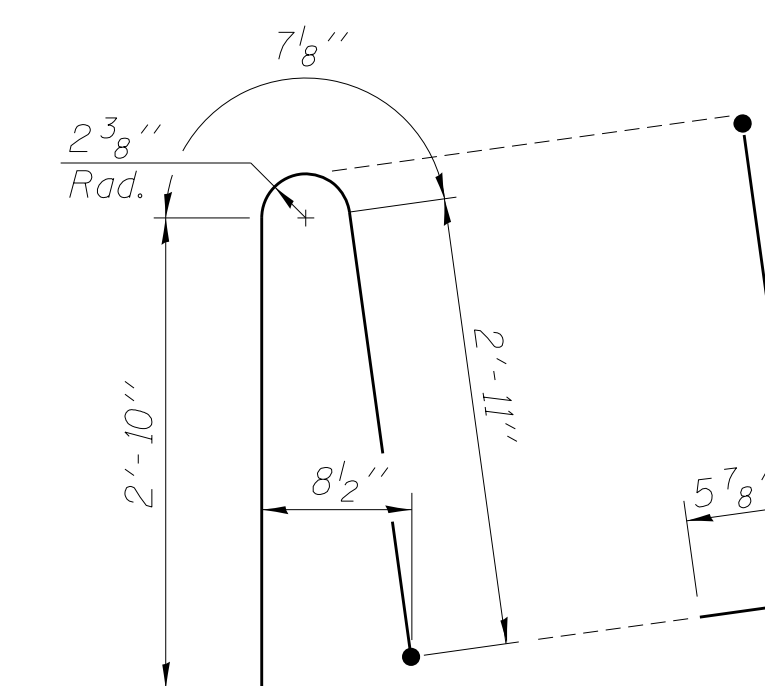


GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

SFP 34-42

8-16-12

M:\JL RT_9_OVER RIDD_CREEK\CIVIL\CADD_Sheets\Structure\Plan\Sheet\0468757-012a-slip_forming.dgn

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 CHICAGO, IL 60654
 W(312)467-0123 F(312)467-0220
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USER NAME = cvm
 FILE NAME = D468757-012a-slip_forming.dgn
 PLOT SCALE = 0.0833 1/16"
 PLOT DATE = 5/3/2013

DESIGNED - OY
 CHECKED - DA
 DRAWN - CM
 CHECKED - JB
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

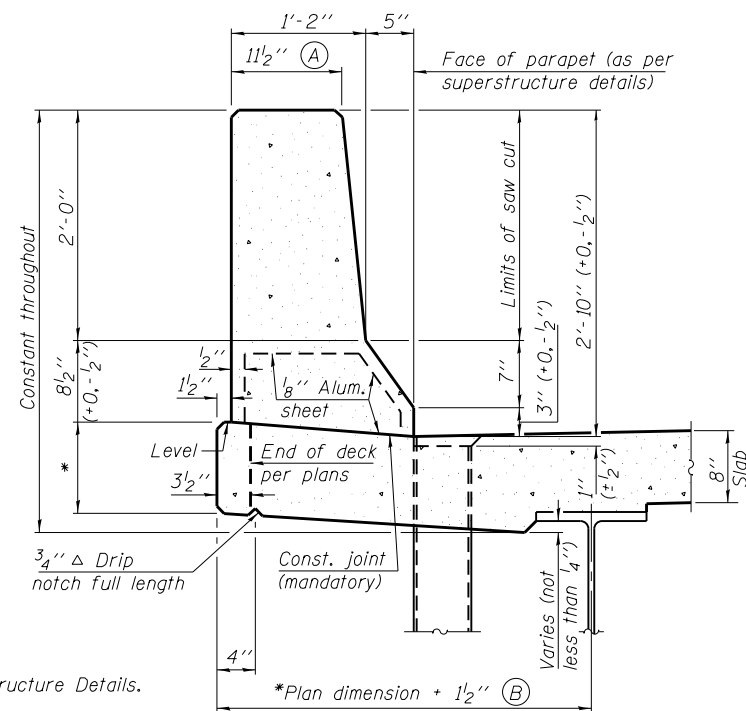
**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 090 - 0178**

SHEET NO. S12a OF S26 SHEETS

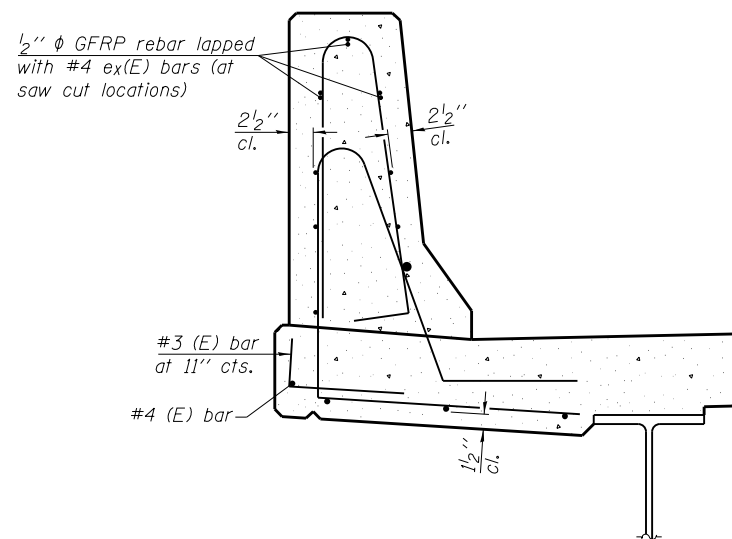
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	52a
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.

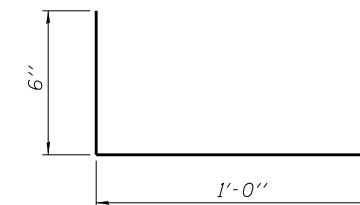


34" F SHAPE PARAPET SECTION
(Showing dimensions)

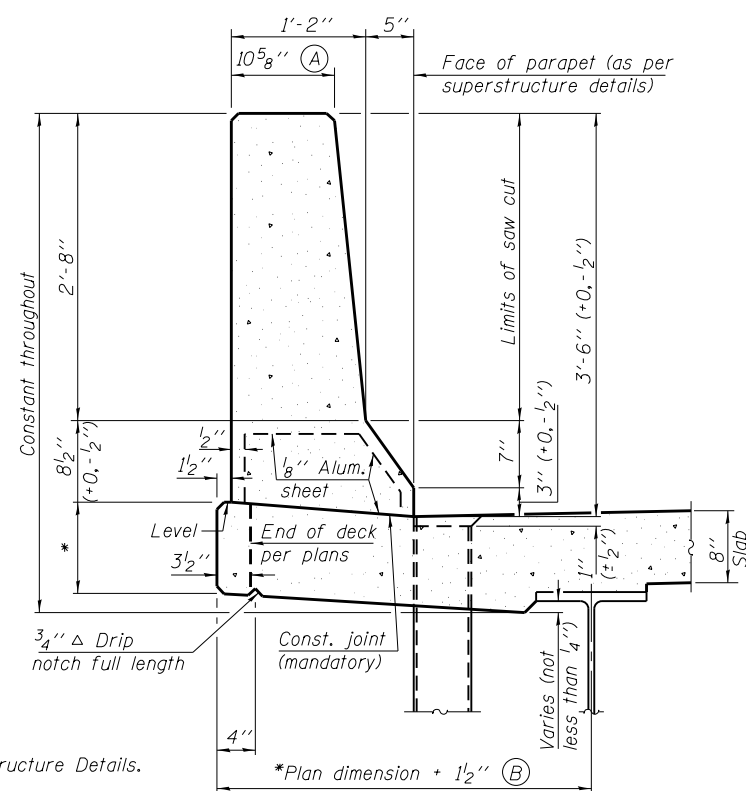


SECTION

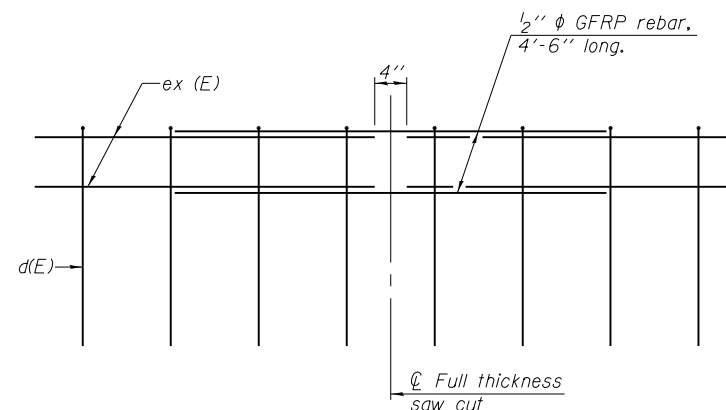
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR

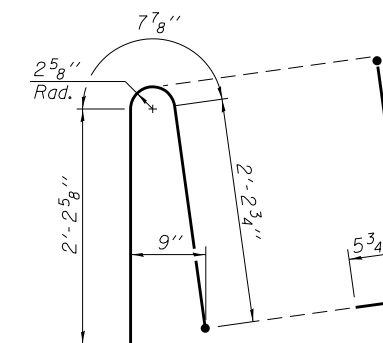


42" F SHAPE PARAPET SECTION
(Showing dimensions)

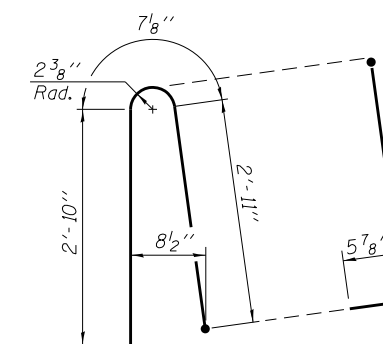


GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)



ALTERNATE BAR d(E)
(For 34" parapet when conduit is present)



ALTERNATE BAR d(E)
(For 42" parapet when conduit is present)

SFP 34-42

8-16-12

MAIL RT. 9, OVER ROAD, CREEK/CIVIL/CADD Sheets/Structure/1/Final Plans/SHT/0468757-012a-slip Forming.dgn

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USER NAME = cvm
 FILE NAME = D468757-012a-slip Forming.dgn
 PLOT SCALE = 0.1667 / 1"
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DESIGNED - OY	REVISED -
CHECKED - DA	REVISED -
DRAWN - CM	REVISED -
CHECKED - JB	REVISED -

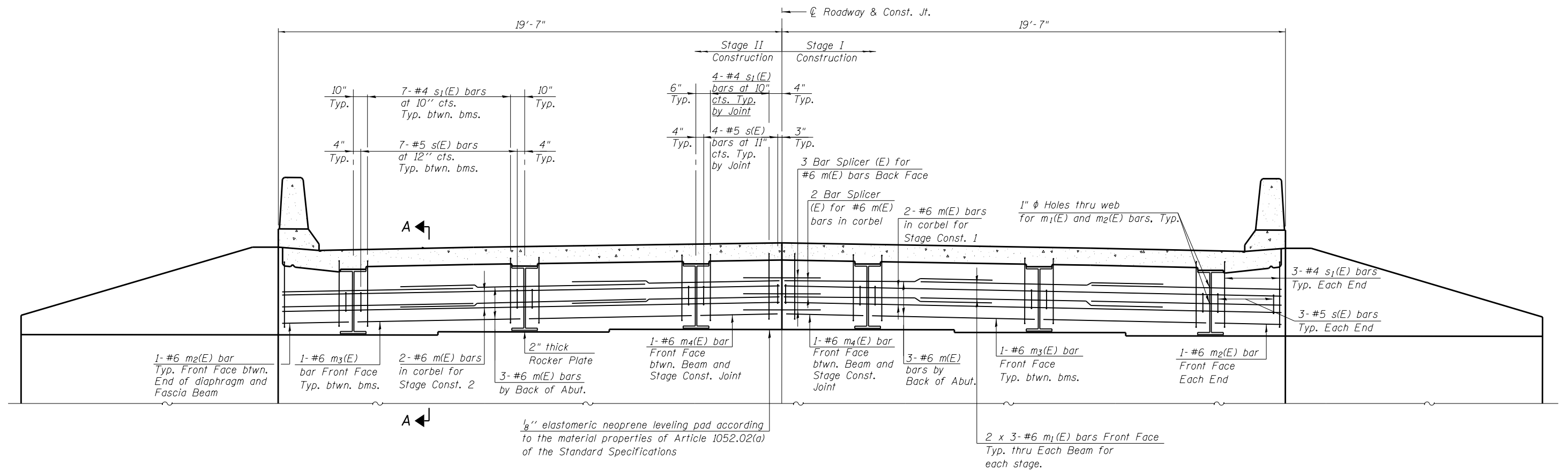
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 090 - 0178**

SHEET NO. 12a OF 526 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	52a
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

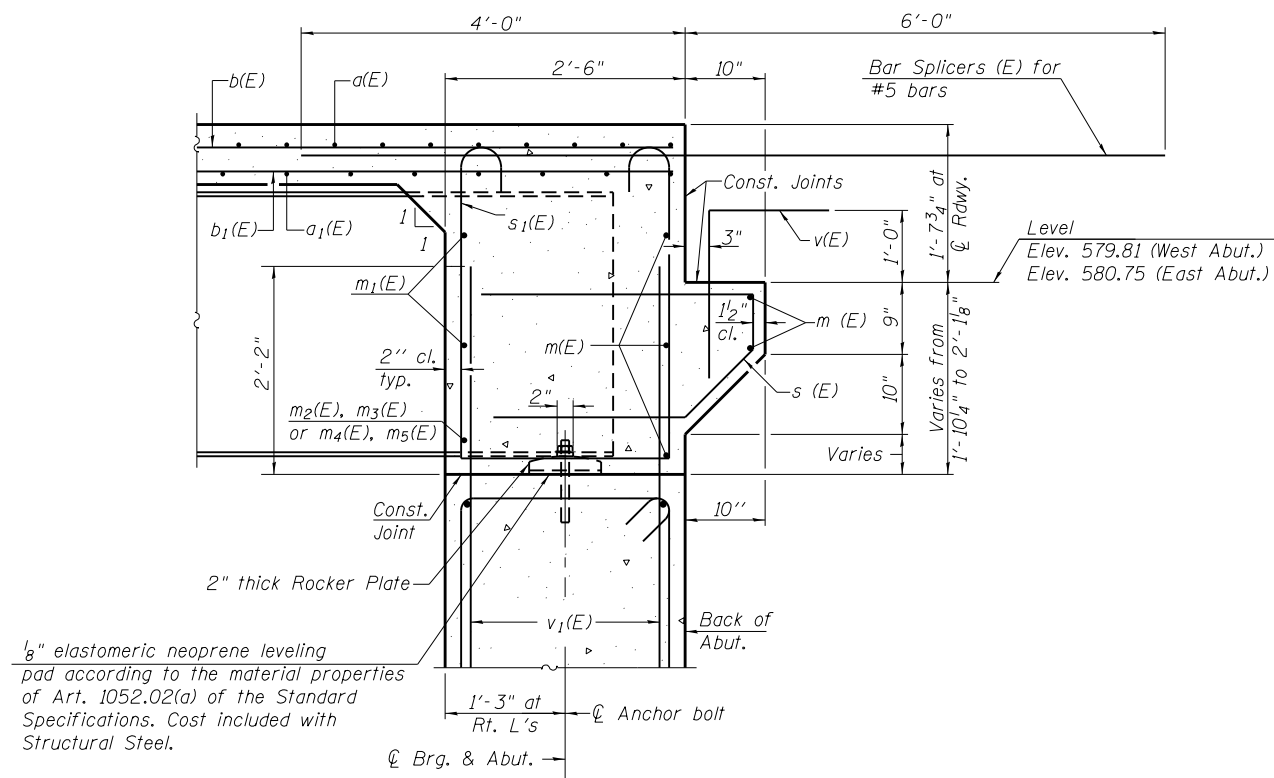


DIAPHRAGM ELEVATION AT ABUTMENT

(East Diaphragm shown, looking East, West diaphragm similar)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet S12 of S25.
 Concrete in diaphragm is included with Concrete Superstructure on sheet S12 of S25.
 For details of bars s(E) & s1(E) see sheet S12 of S25.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP
 #6 bar = 3'-4"



SECTION A-A
 (Dimensions at right angles to abutment)

MAIL RT. 9 OVER ROAD CREEK/CIVIL/CADD Sheets/Structural/Files/Plots/Sheet/0468757-013-Diaphragm.dgn

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USER NAME = cvm
 FILE NAME = D468757-013-Diaphragm.dgn
 PLOT SCALE = 4:0 1" / 16"
 PLOT DATE = 1/21/2013

DESIGNED - OY	REVISED -
CHECKED - DA	REVISED -
DRAWN - CM	REVISED -
CHECKED - JB	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

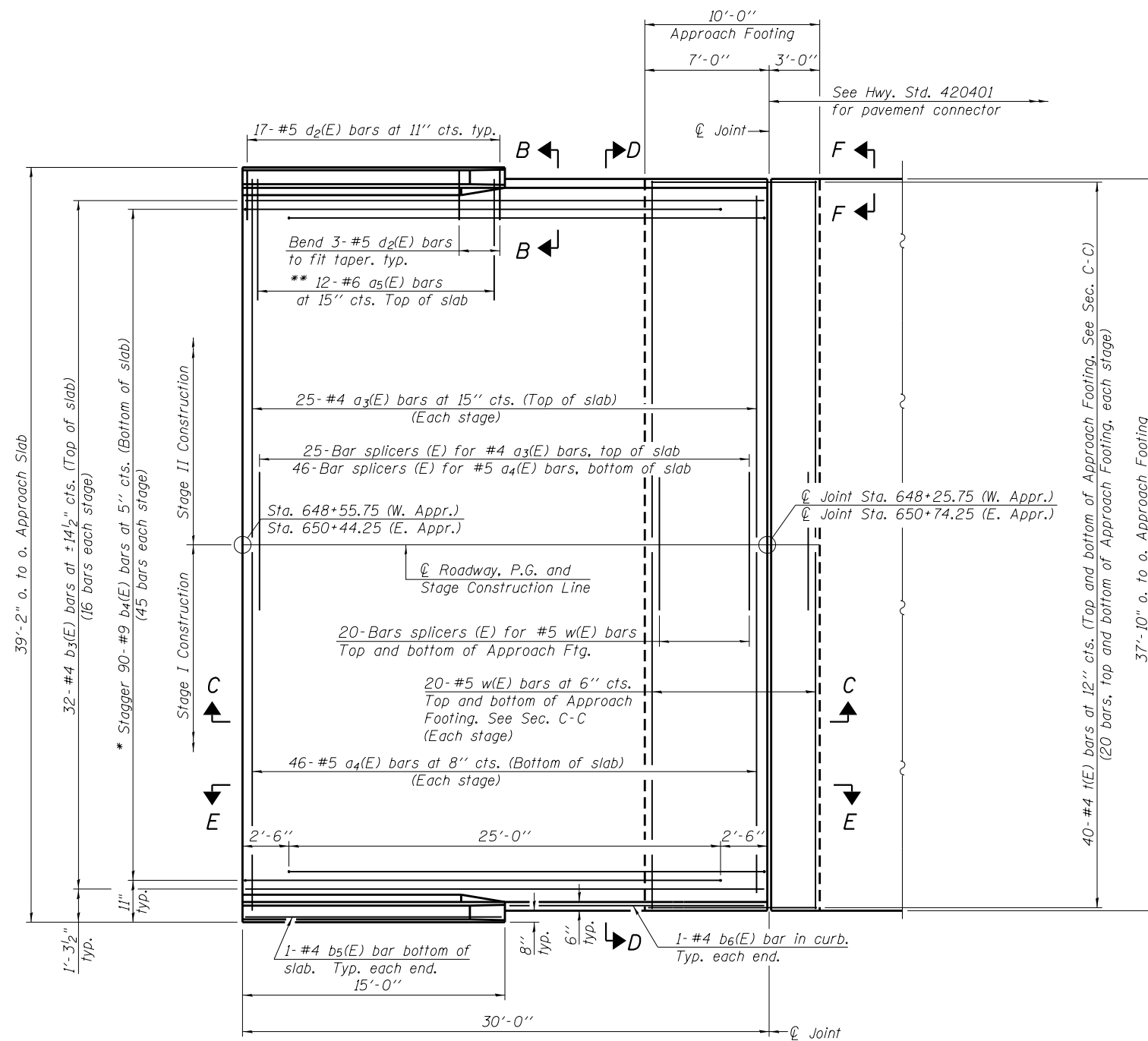
**INTEGRAL ABUTMENT DIAPHRAGM DETAILS
 STRUCTURE NO. 090 - 0178**

SHEET NO. S13 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	53
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

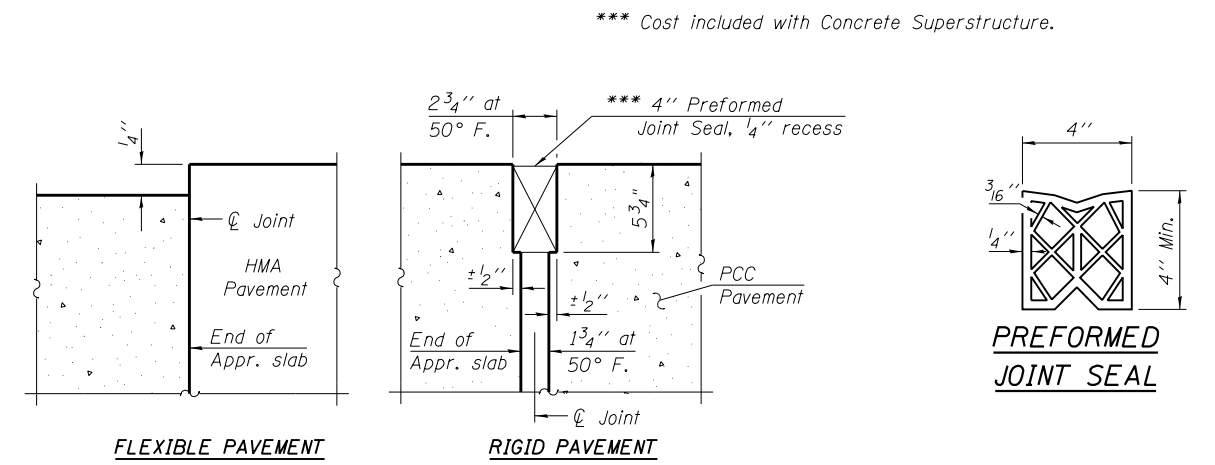
Notes:
See sheet S15 of S26 for Sections C-C & D-D and View E-E.
a₃(E) and a₄(E) bar spacings measured along \varnothing Rdwy.



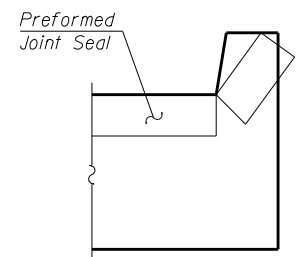
PLAN

(East Abutment Shown - West Abutment similar by rotation)

- * Tilt #9 b₄(E) bars as required to maintain clearance.
- ** Space between a₃(E) bars, typ. ea. parapet.

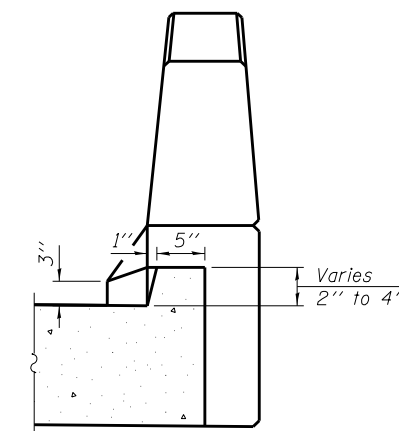


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

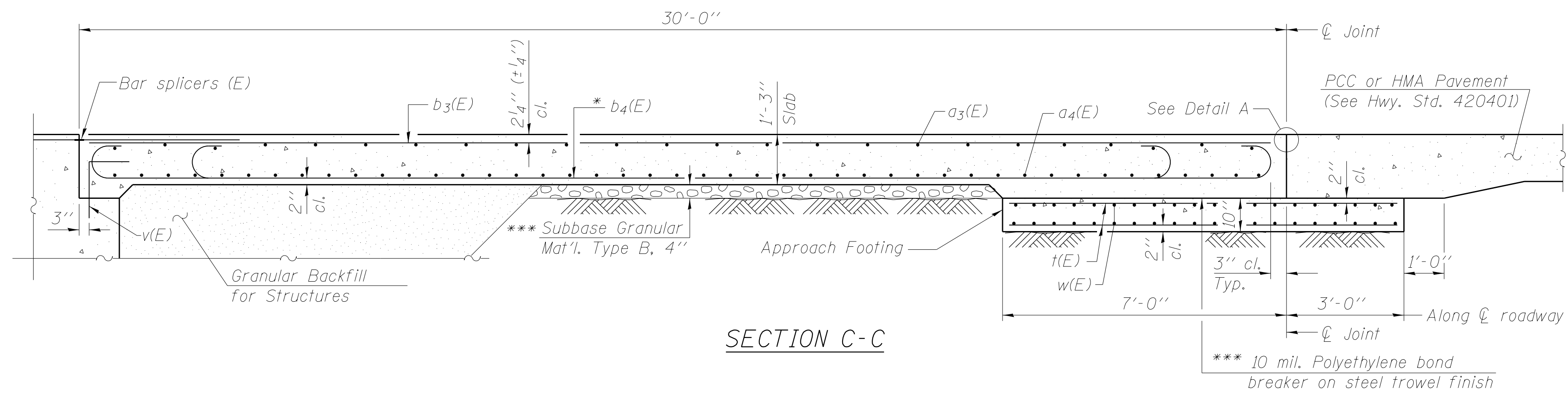


VIEW B-B

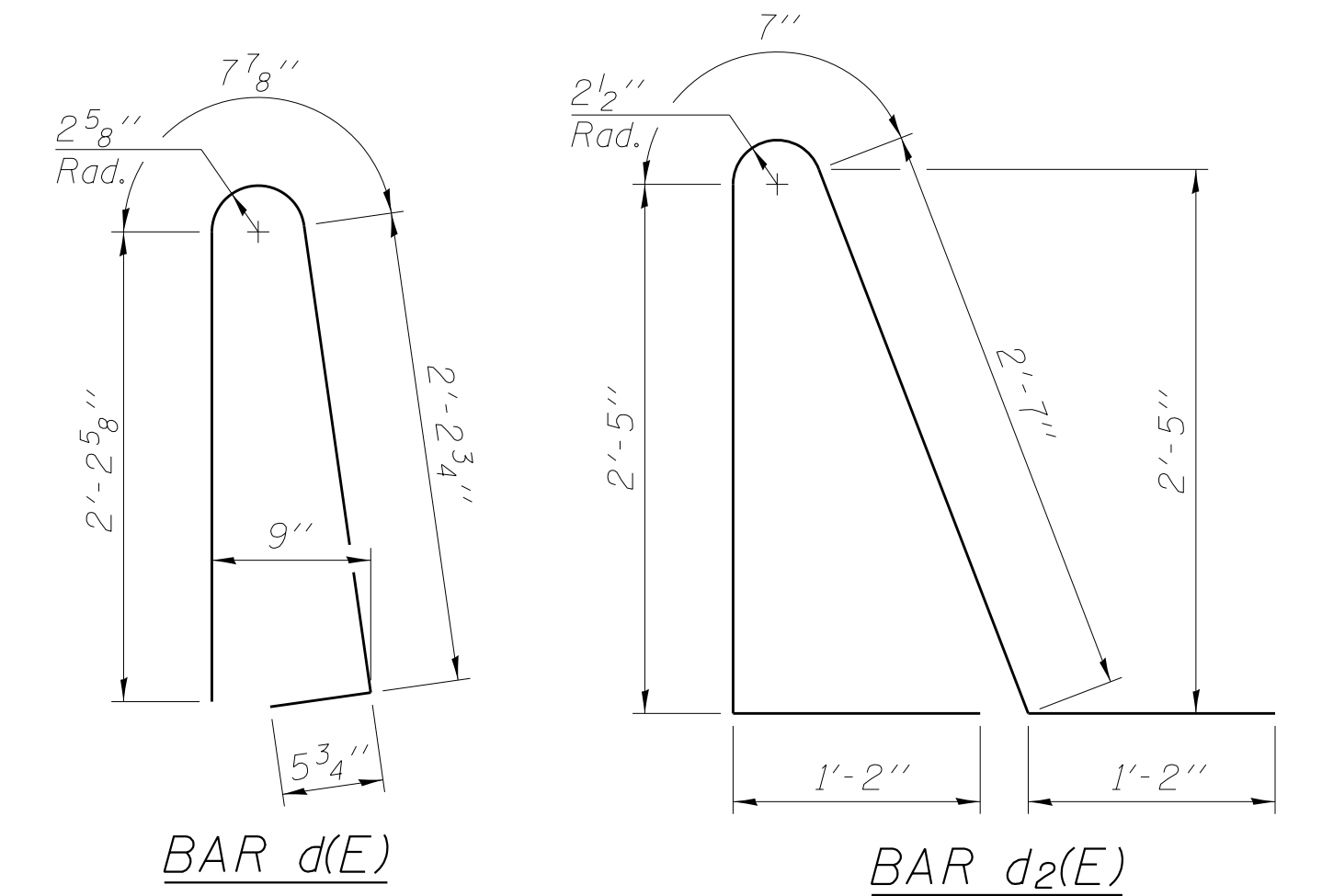
(Sheet 1 of 2)

USER NAME = \$OPERATOR\$	DESIGNED - BRD	REVISED
FILE NAME = 0900178-68757.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2 '1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 1/17/2013	CHECKED - BRD/CWC	REVISED

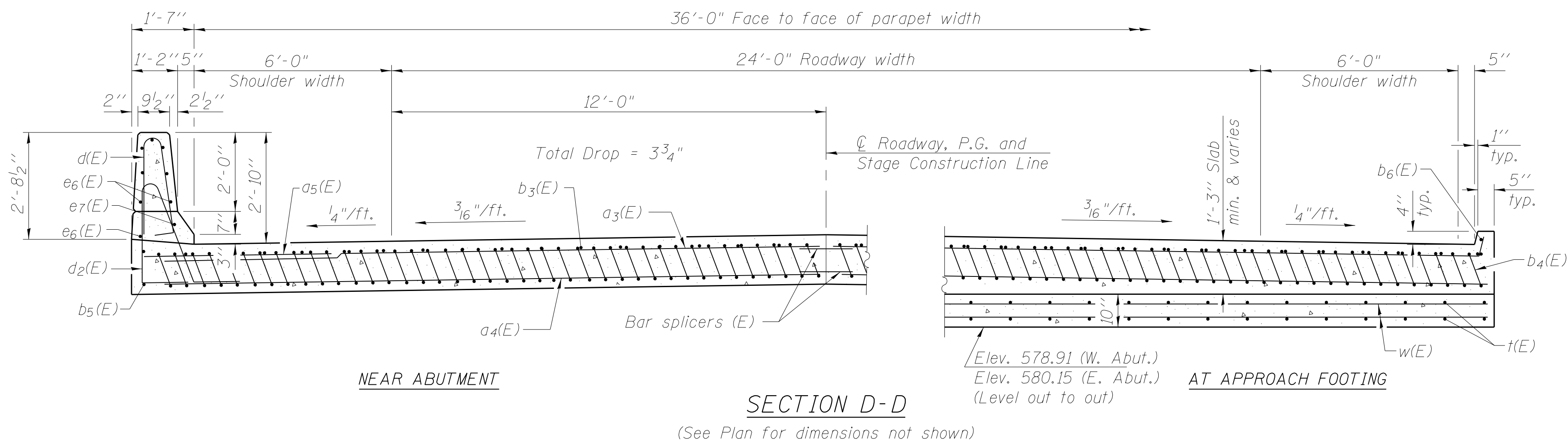
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	54
CONTRACT NO. 68757				



Notes:
 See sheet S14 of S26 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheets S12 & S13 of S26.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet S23 of S26.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S02 of S26.
 For additional parapet details, see sheet S12 of S26.



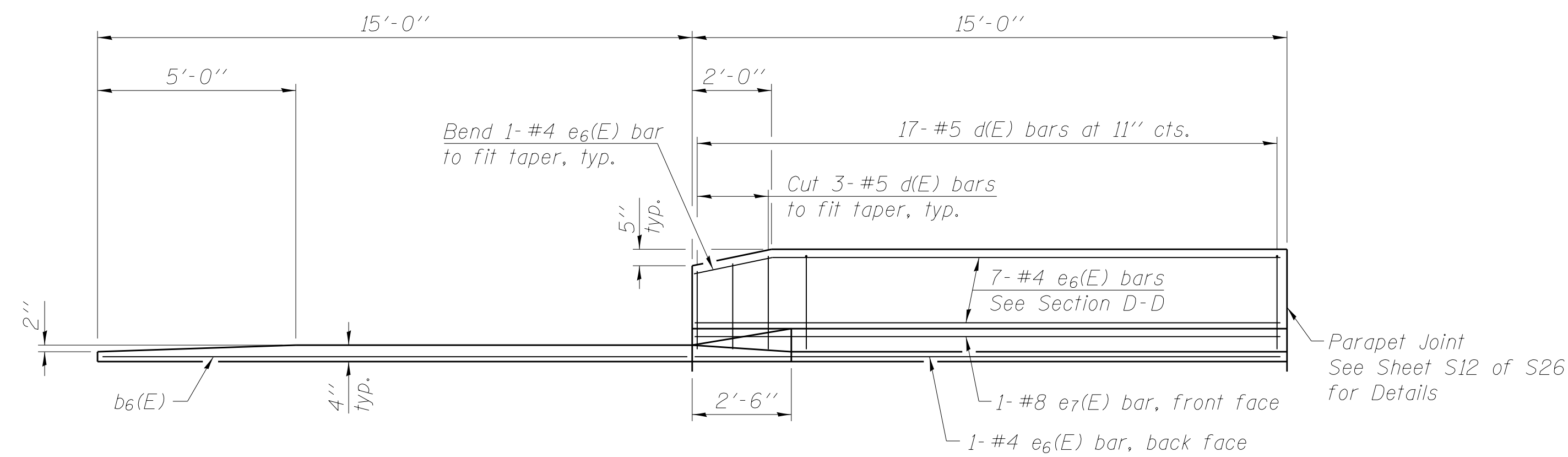
* Tilt #9 b₄(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



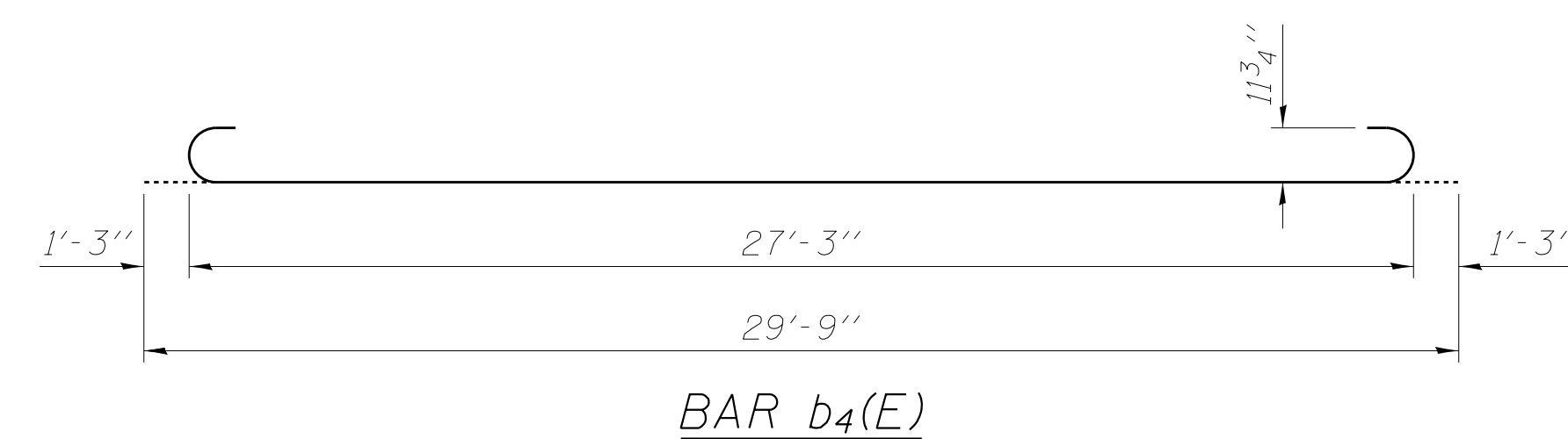
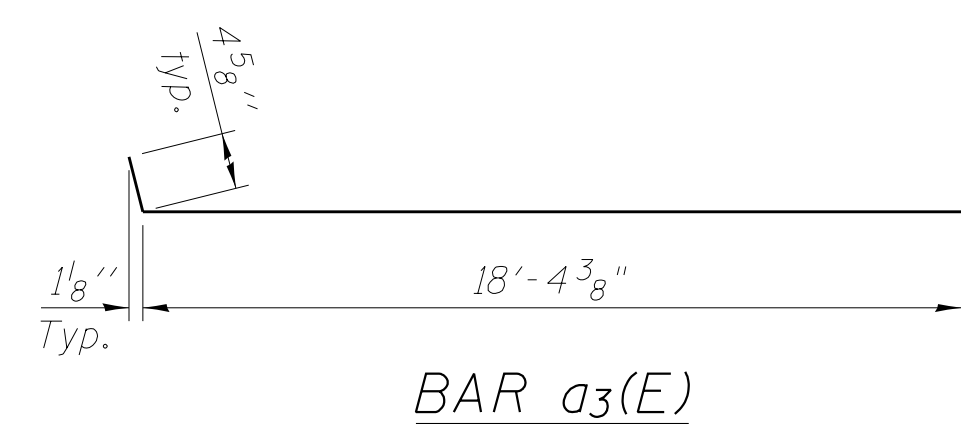
NEAR ABUTMENT

SECTION D-D

(See Plan for dimensions not shown)



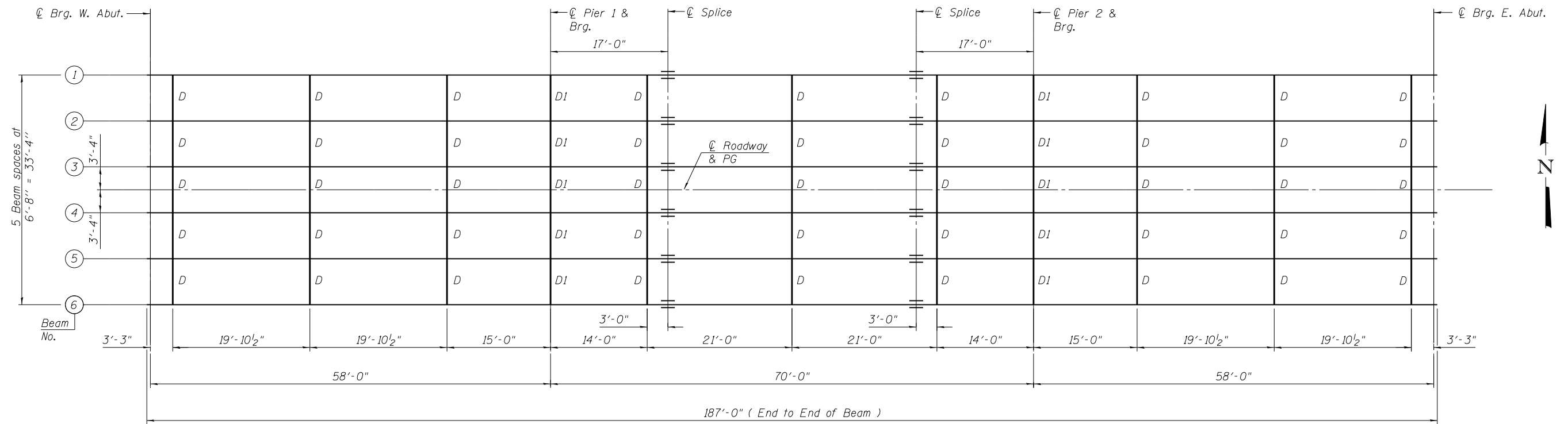
VIEW E-E



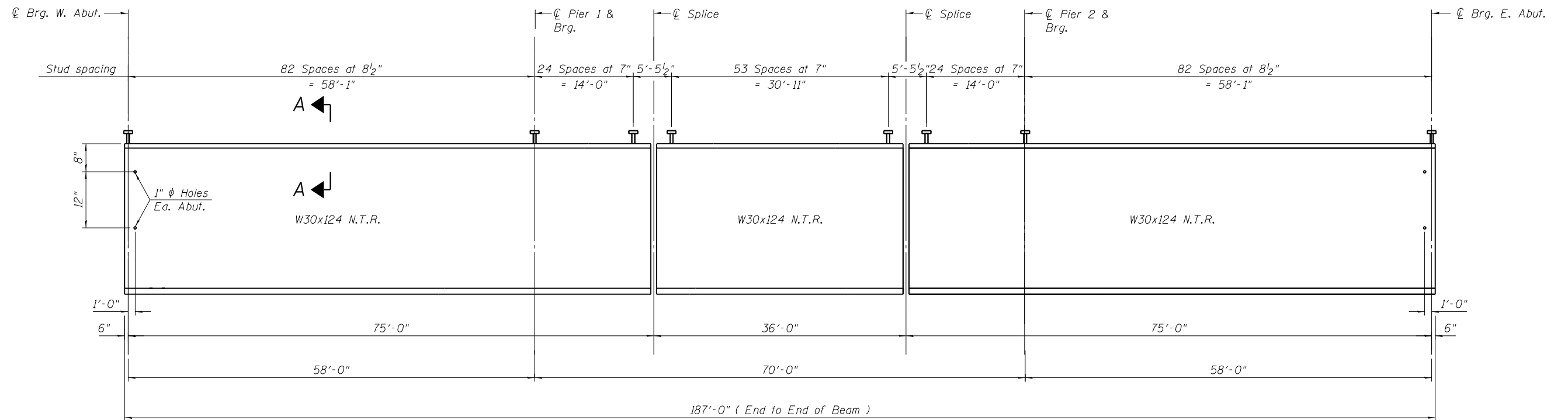
TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₃ (E)	100	#4	18'-9"	┌───┐
a ₄ (E)	184	#5	18'-8"	┌───┐
a ₅ (E)	48	#6	6'-6"	┌───┐
b ₃ (E)	64	#4	29'-8"	┌───┐
b ₄ (E)	180	#9	29'-9"	┌───┐
b ₅ (E)	4	#4	14'-8"	┌───┐
b ₆ (E)	4	#4	14'-7"	┌───┐
d(E)	68	#5	5'-7"	┌───┐
d ₂ (E)	68	#5	7'-11"	┌───┐
e ₆ (E)	32	#4	14'-8"	┌───┐
e ₇ (E)	4	#8	14'-8"	┌───┐
t(E)	160	#4	9'-8"	┌───┐
w(E)	160	#5	18'-8"	┌───┐
Concrete Superstructure		Cu. Yd.	117.1	
Concrete Structures		Cu. Yd.	23.4	
Reinforcement Bars, Epoxy Coated		Pound	30,440	

(Sheet 2 of 2)



PLAN



BEAM ELEVATION

Notes:

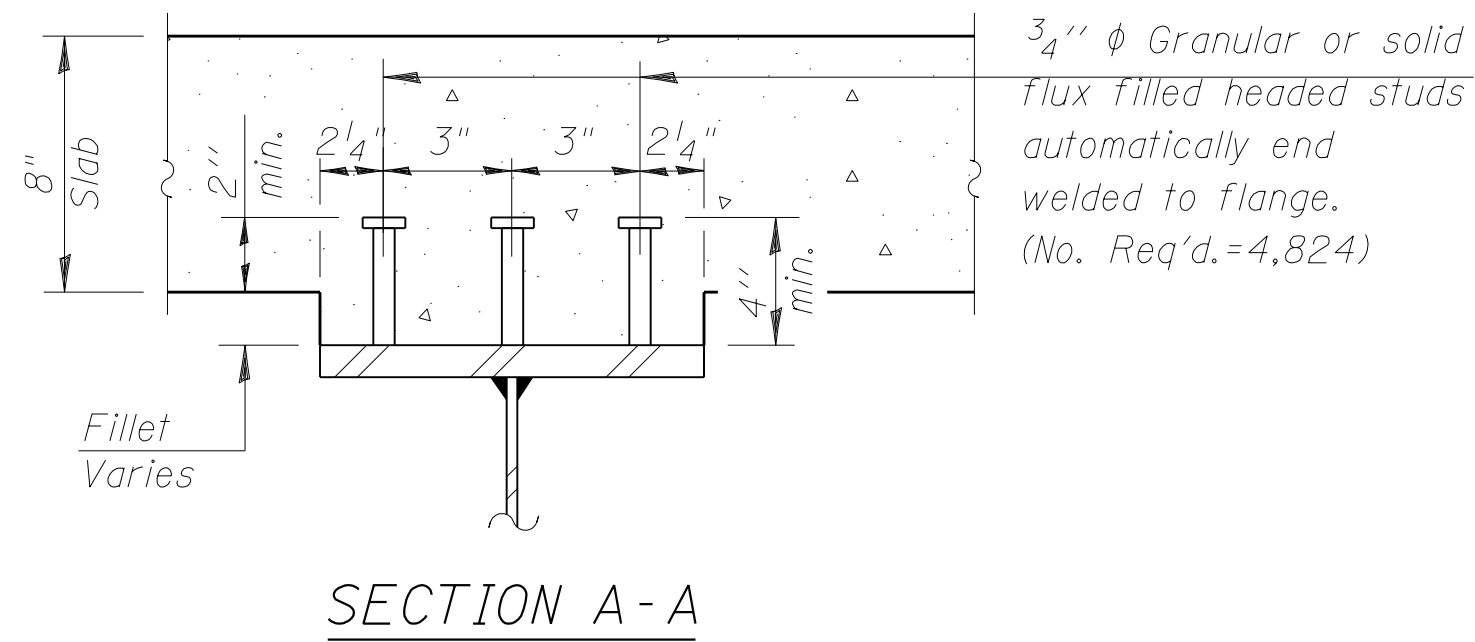
1. All flange and web splice plates, except filler plates, shall be M270 Grade 50W and meet notch toughness requirements.
2. Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.
3. All beams shall be M270 Grade 50W.

4. For Section A-A see sheet S17 of S26.
5. Work this sheet with sheet S17 of S26.
6. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

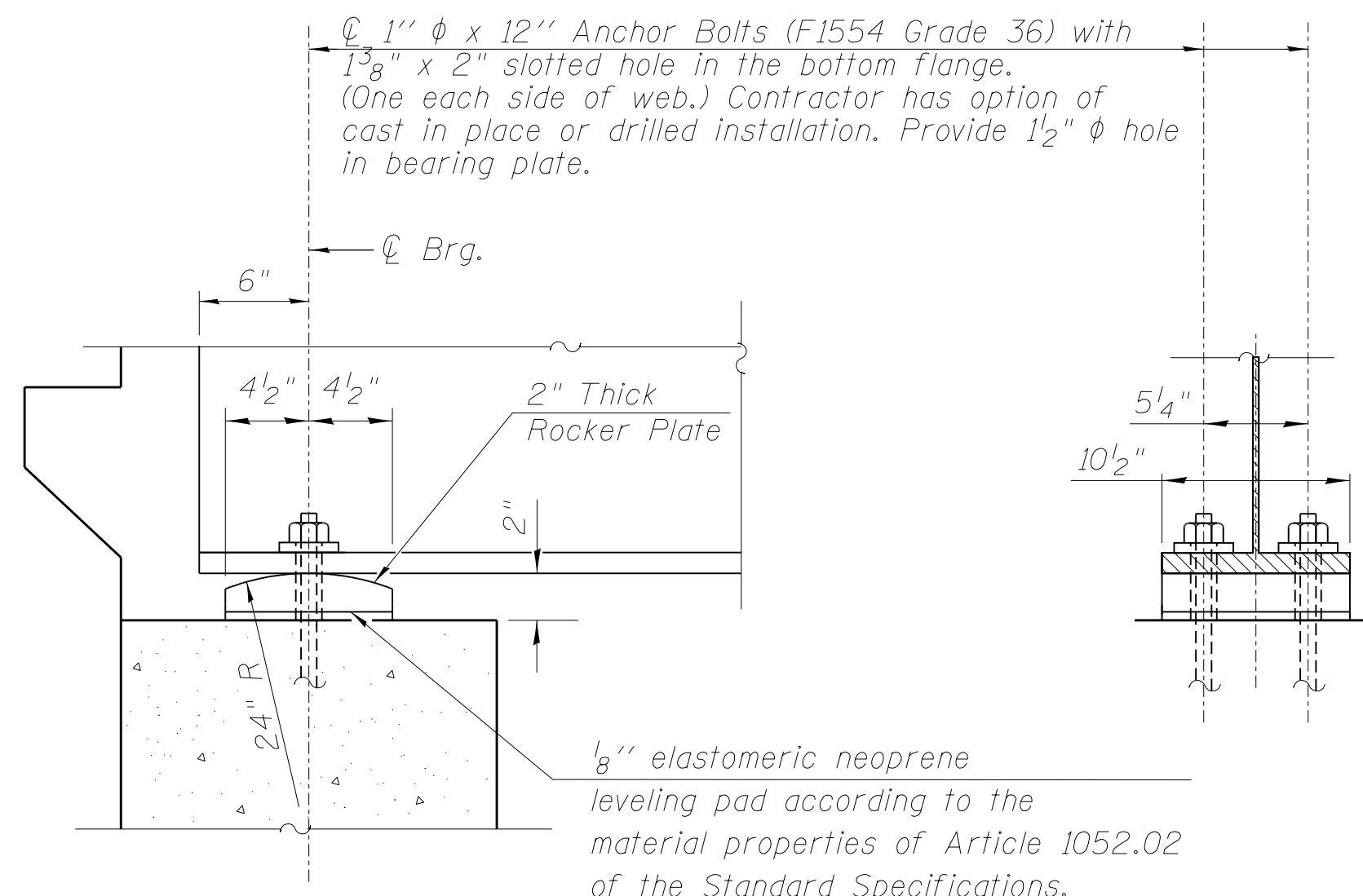
MAIL RT. 9, OVER RIVER CREEK CIVIL, CADDD Sheets\Structural\Final Plans\SH1\0468757-016-Framing.dgn

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FILE NAME = D468757-016-Framing.dgn	CHECKED - DA	REVISED -
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PLOT DATE = 1/21/2013	CHECKED - JB	REVISED -

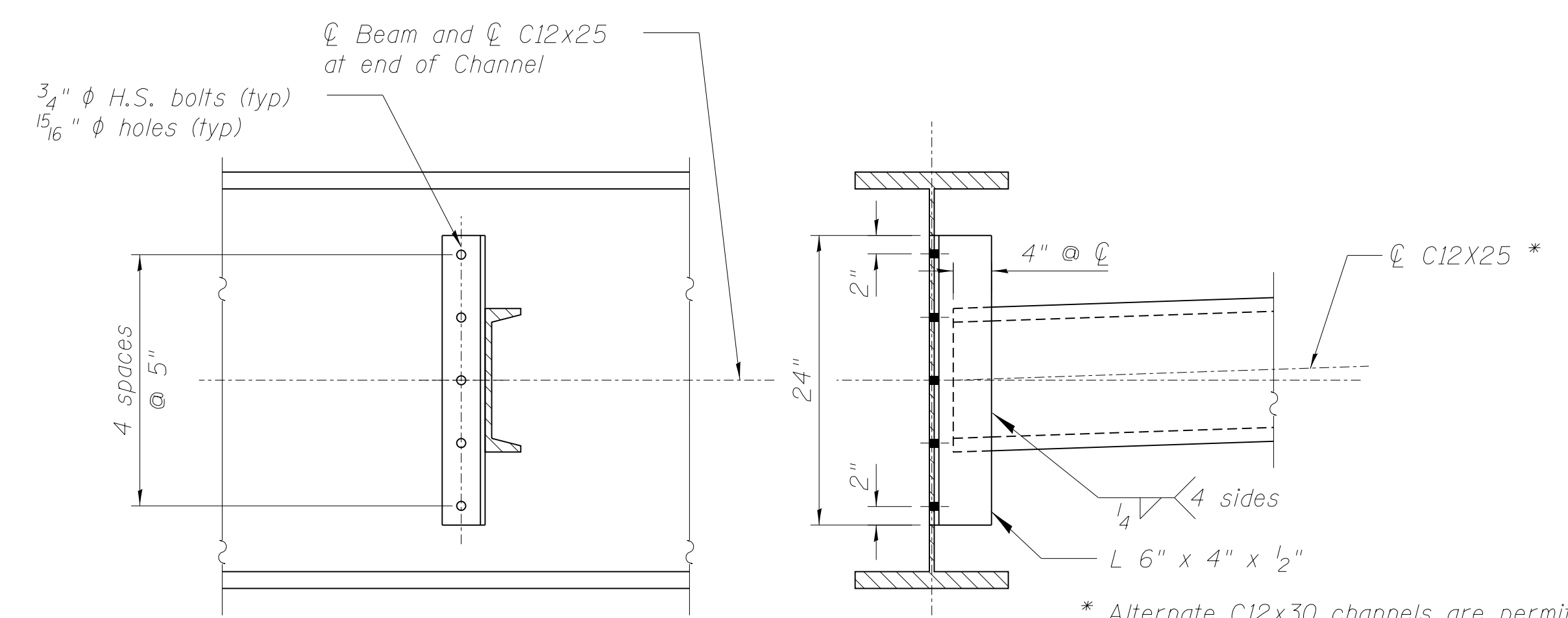
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	56
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



3/4" ϕ Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.=4,824)



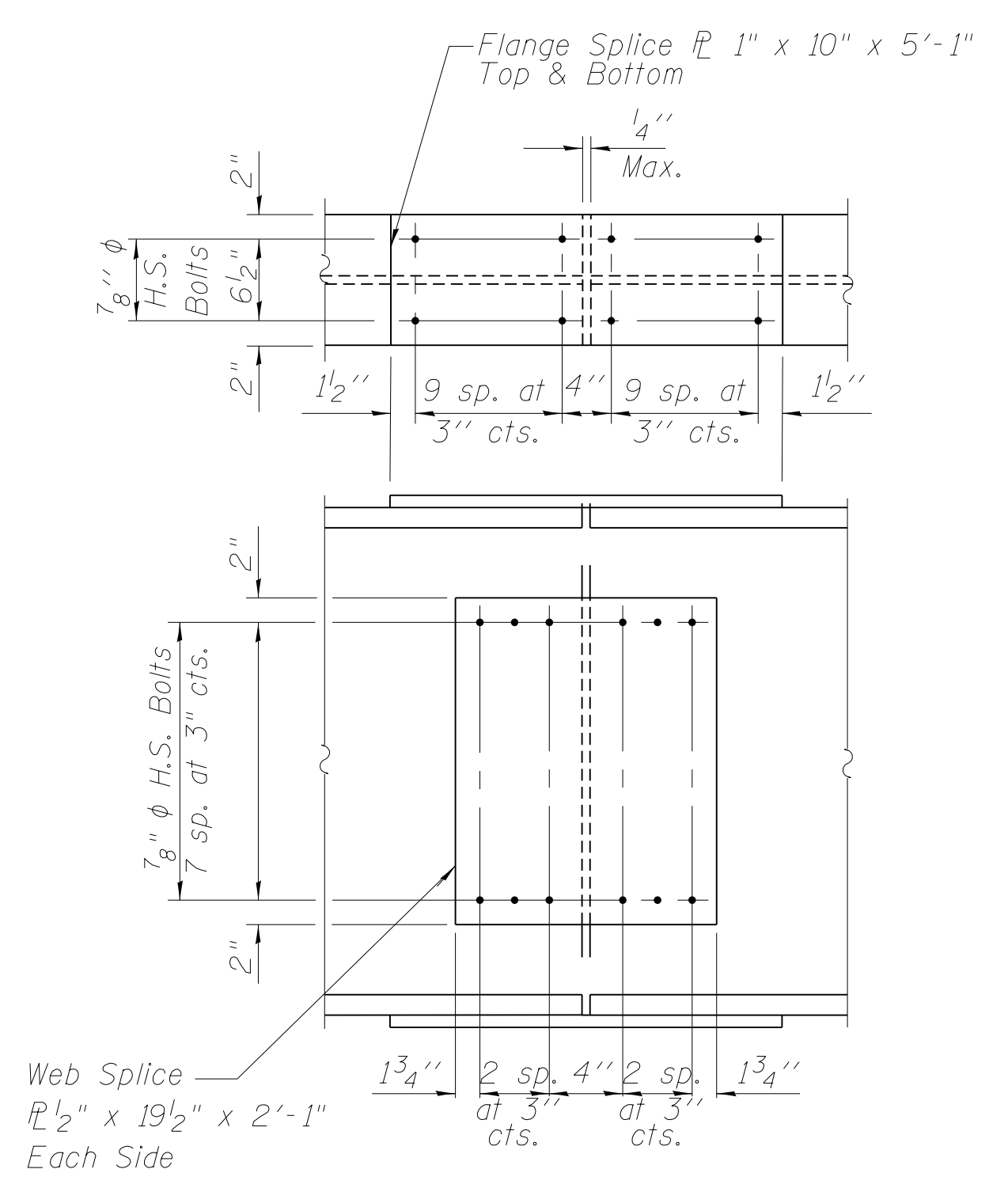
SECTION AT ABUTMENT



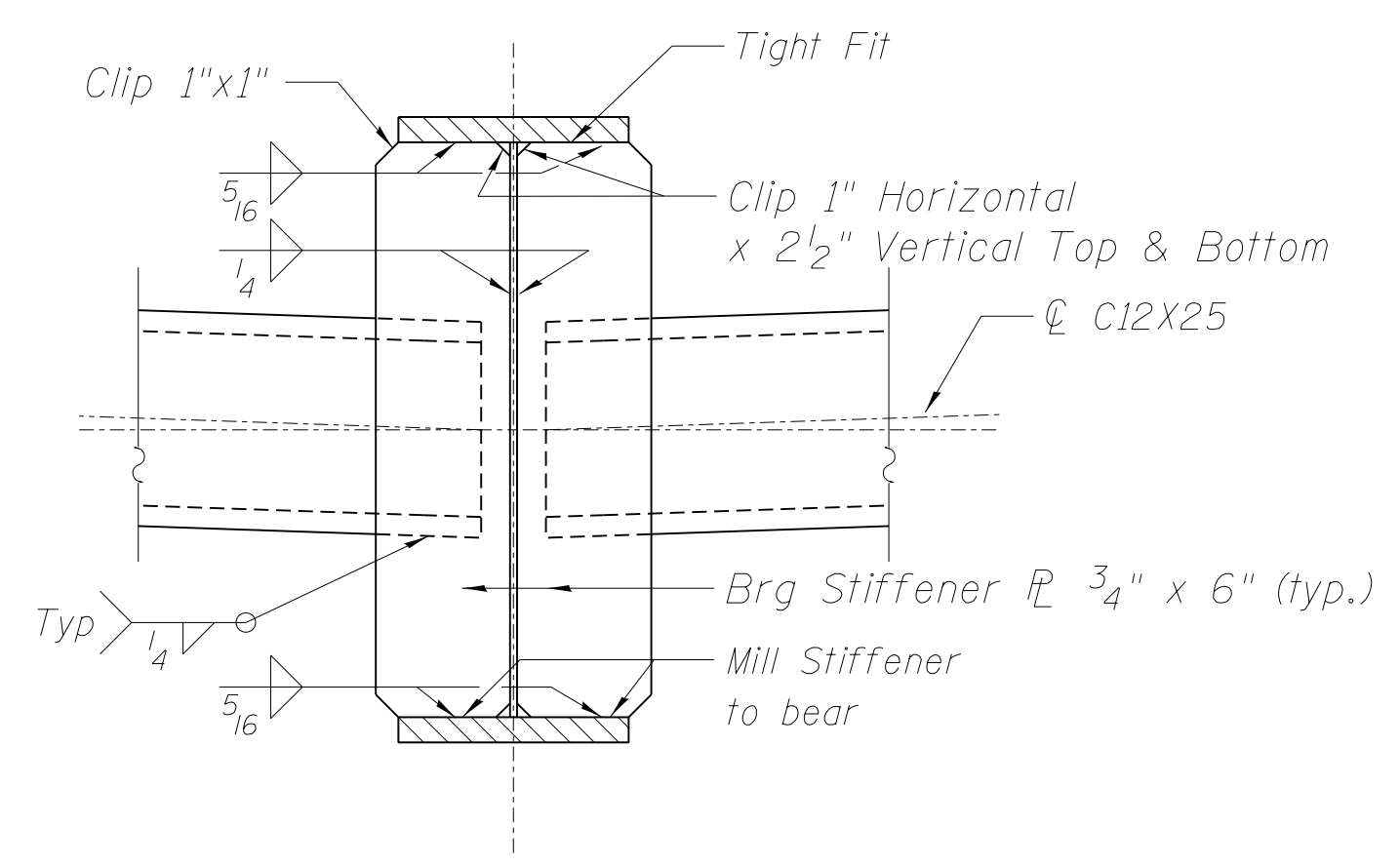
DIAPHRAGM D

45 Required
Note:
Two hardened washers required for each set of oversized holes.

* Alternate C12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized shall be provided at no extra cost to the Department.



DETAIL OF SPLICE



SECTION AT PIER DIAPHRAGM D1

10 Required

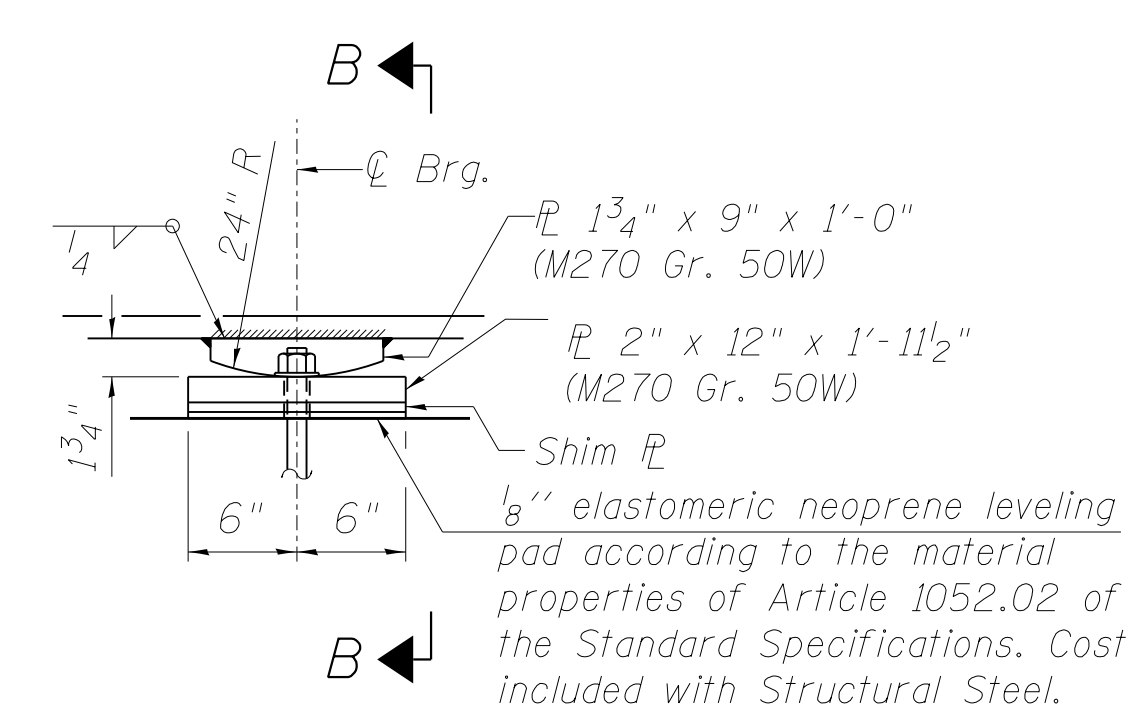
Notes:
Anchor bolts shall be ASTM F1554 (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A 307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

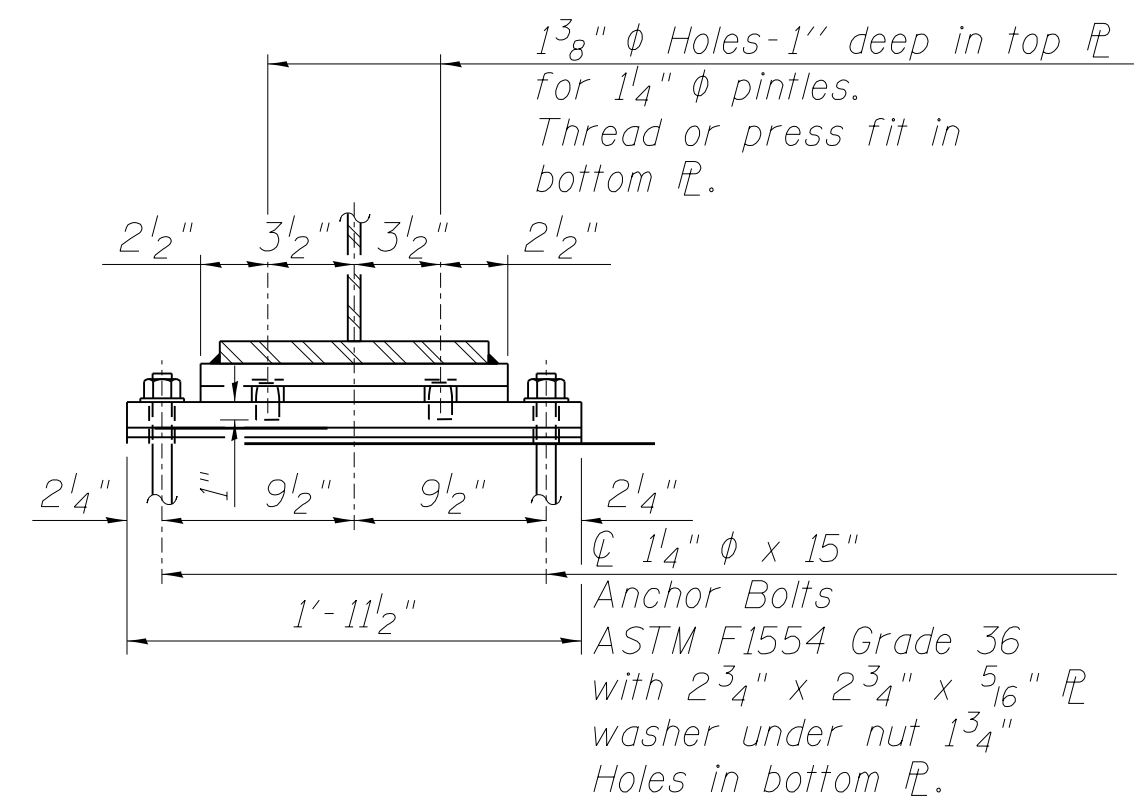
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

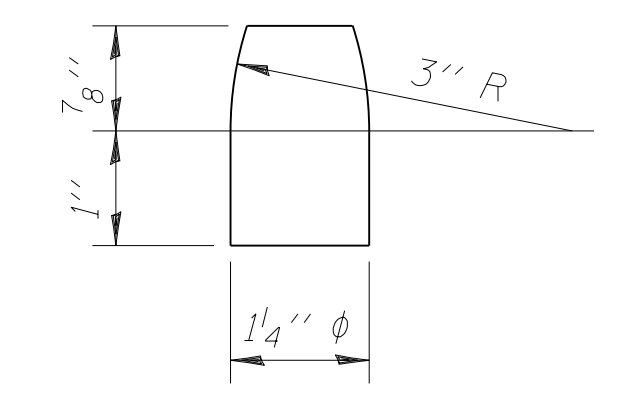
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates of shims and placed as shown on bearing details.



ELEVATION AT PIER



FIXED BEARING



DETAIL OF PINTLE

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	EACH	24
Anchor Bolts, 1 1/4"	EACH	24
Stud Shear Connectors	EACH	4,824

MAX:JL:RT:9:OVER:NUJL:CREEK:CVLVL:CADDD:Sheets\Structural\N:\Final\Plans\SHIT\0468757-017-steel_details.dgn
 225 W. OHIO ST., FOURTH FL. CHICAGO, IL 60654
 W(312)467-0123 F(312)467-0220 www.terraengineering.com



USER NAME = cvm
FILE NAME = D468757-017-steel_details.dgn
PLOT SCALE = 0:1.0000 "/>

DESIGNED - OY
CHECKED - DA
DRAWN - CM
CHECKED - JB
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 090 - 0178

SHEET NO. S17 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	57
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 & 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s	(in ⁴)	5360	5360	5360
$I_c(n)$	(in ⁴)	15441		15441
$I_c(3n)$	(in ⁴)	11346		11346
$I_c(cr)$	(in ⁴)		7615	
S_s	(in ³)	355	355	355
$S_c(n)$	(in ³)	542		542
$S_c(3n)$	(in ³)	490		490
$S_c(cr)$	(in ³)		420	
$DC1$	(k/')	0.84	0.84	0.84
M_{DC1}	(k)	197	334	167
$DC2$	(k/')	0.15	0.15	0.15
M_{DC2}	(k)	35	60	29
DW	(k/')	0.33	0.33	0.33
M_{DW}	(k)	80	138	67
$M_{\xi} + IM$	(k)	587	554	555
M_u (Strength I)	(k)	1435	1668	1315
$\phi_r M_n$	(k)	2747	2174	2776
f_s DC1	(ksi)	6.64	11.30	5.64
f_s DC2	(ksi)	0.85	1.71	0.80
f_s DW	(ksi)	1.95	3.93	1.54
f_s ($\xi + IM$)	(ksi)	12.98	15.83	12.27
f_s (Service II)	(ksi)	26.32	37.52	23.93
$0.95R_n F_y f$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-	-	-
$\phi_r F_n$	(ksi)	-	-	-
V_r	(k)	21.9	23.5	15.3

* Compact Section

INTERIOR BEAM REACTION TABLE			
	W. & E. Abut.	Pier	
R_{DC1}	(k)	19	58
R_{DC2}	(k)	3	10
R_{DW}	(k)	7	24
$R_{\xi} + IM$	(k)	68	101
R_{Total}	(k)	97	193

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in⁴ and in³).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M_{\xi} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\xi} + IM$
- $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.) and appendix A criteria for negative moment.
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
- f_s ($\xi + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M_{\xi} + IM / S_c(3n)$ or $M_{\xi} + IM / S_c(cr)$ as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\xi + IM)$
- $0.95R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\xi + IM)$
- $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).
- V_r : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

* TOP OF BEAM ELEVATIONS

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
⊕ Brg. W. Abut.	580.43	580.56	580.67	580.67	580.56	580.43
⊕ Brg. Pier 1	580.70	580.83	580.94	580.94	580.83	580.70
Splice 1	580.78	580.91	581.02	581.02	580.91	580.78
Splice 2	580.96	581.09	581.20	581.20	581.09	580.96
⊕ Brg. Pier 2	581.05	581.18	581.29	581.29	581.18	581.05
⊕ Brg. E. Abut.	581.36	581.49	581.60	581.60	581.49	581.36

* For Fabrication Only

M:\JL RT - 9 OVER HOUD CREEK\CIVIL\CADD Sheets\Structural\Final Plans\SH1\0468757-018-steel.details1.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

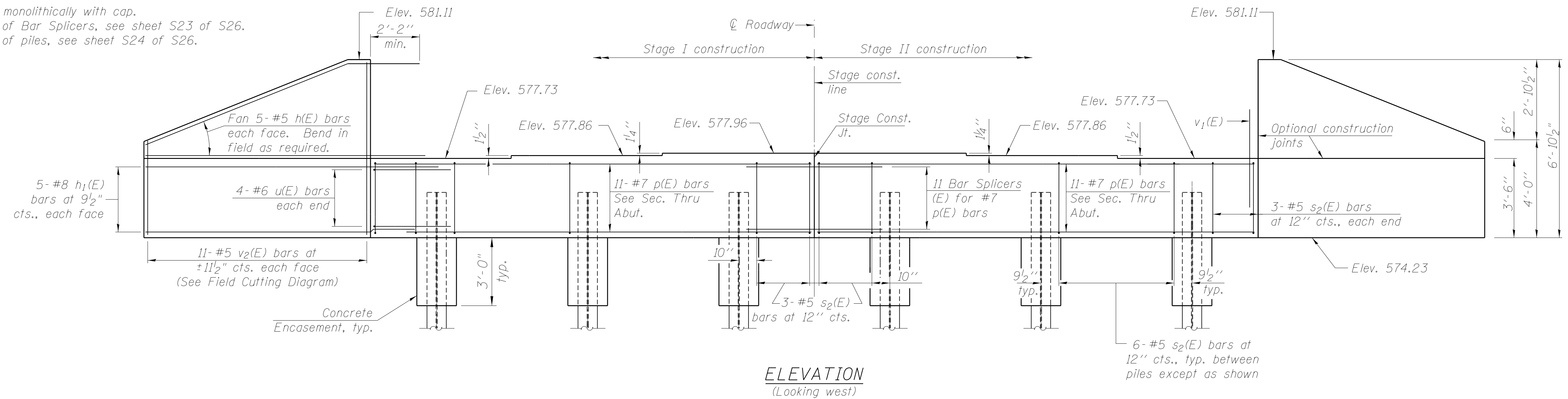
STEEL DETAILS
STRUCTURE NO. 090 - 0178

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	58
CONTRACT NO. 68757				

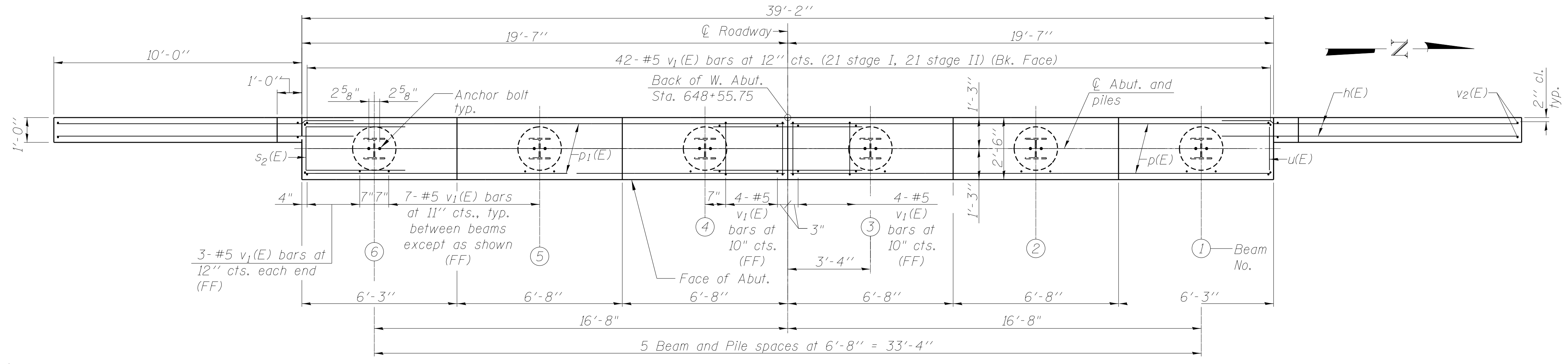
SHEET NO. S18 OF S26 SHEETS

ILLINOIS FED. AID PROJECT

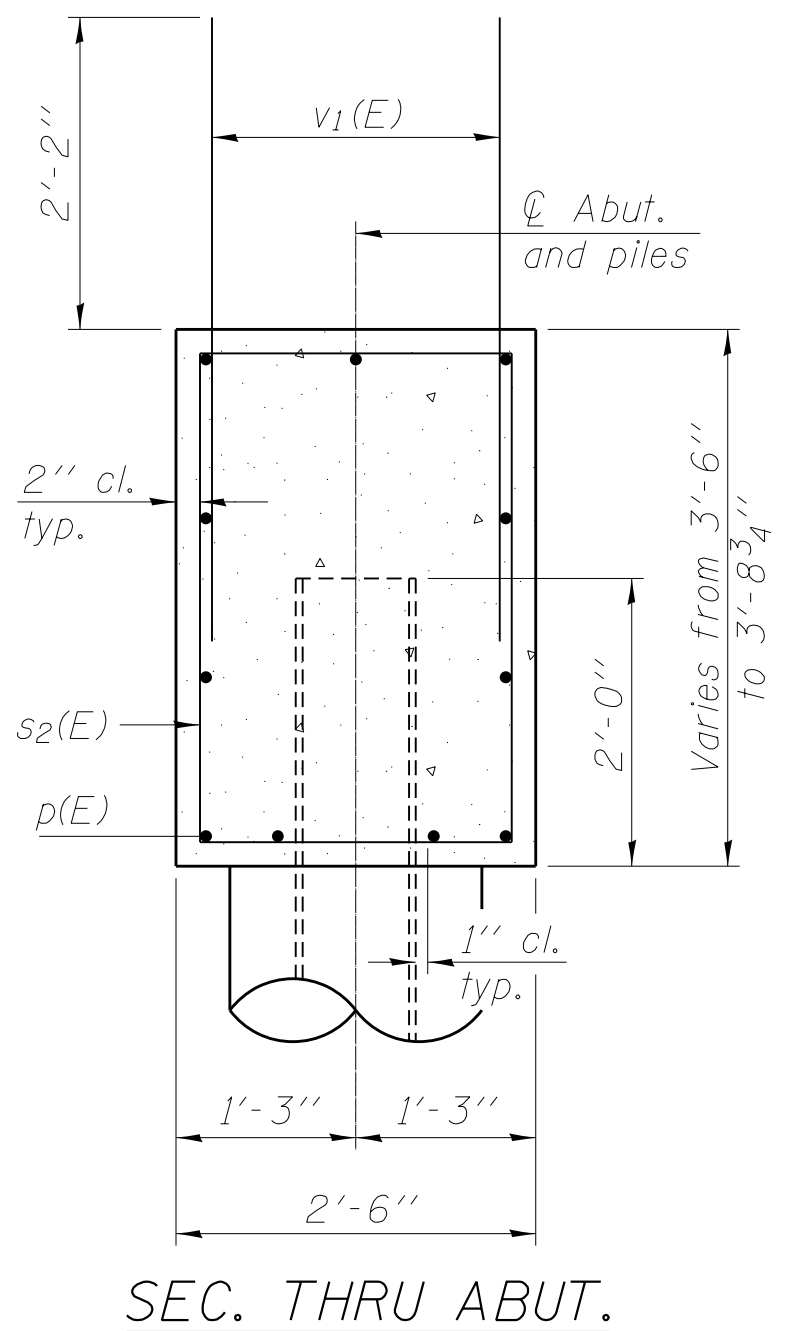
Notes:
 Four steps monolithically with cap.
 For details of Bar Splicers, see sheet S23 of S26.
 For details of piles, see sheet S24 of S26.



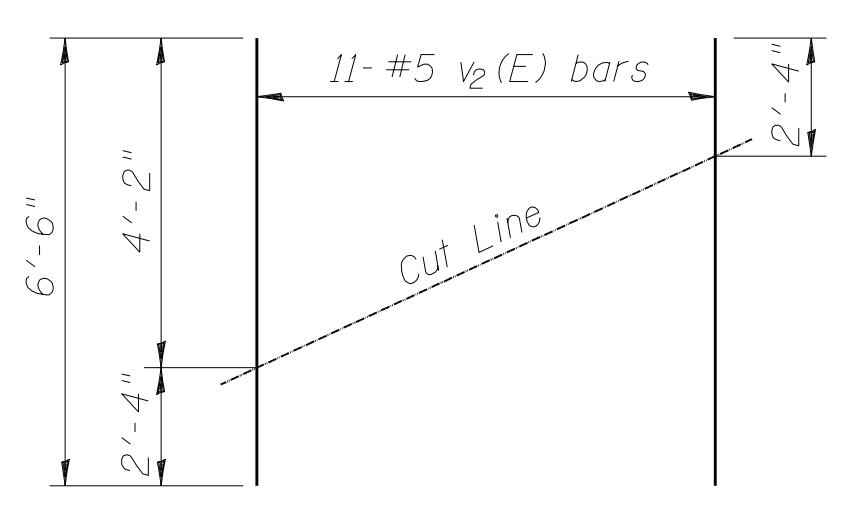
ELEVATION
 (Looking west)



PLAN

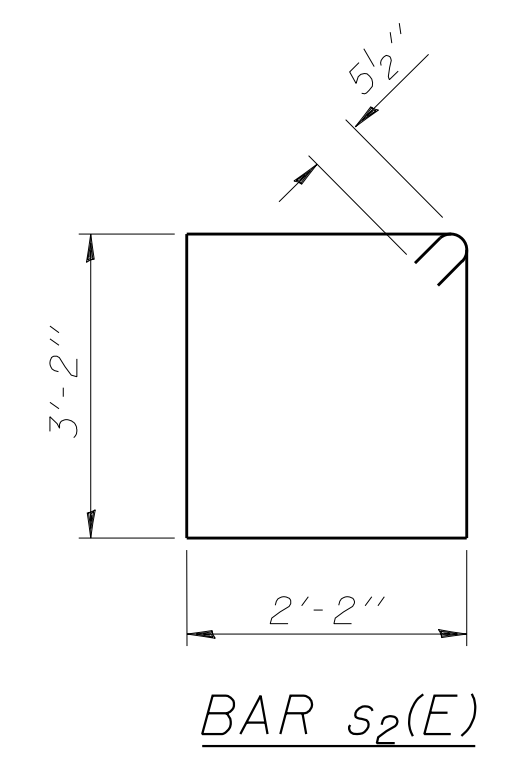


SEC. THRU ABUT.

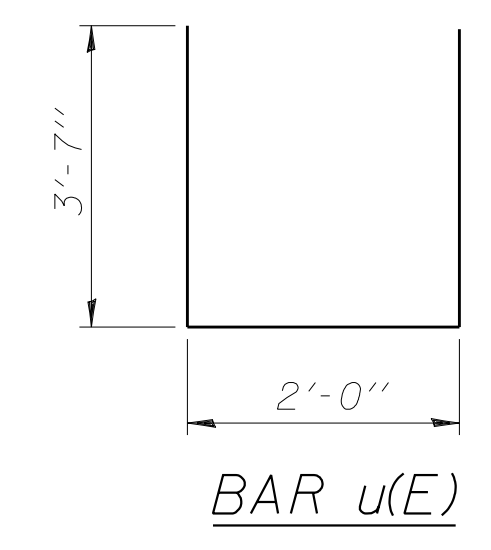


FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)

PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 180 kips
 Allowable Resistance Available: 210 kips
 Est. Length: 60 ft.
 No. Production Piles: 5
 No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	12'-5"	—
h1(E)	20	#8	14'-3"	—
p(E)	22	#7	19'-3"	—
s2(E)	36	#5	11'-7"	□
u(E)	8	#6	9'-2"	□
v1(E)	84	#5	4'-4"	—
v2(E)	22	#5	6'-6"	—
Structure Excavation		Cu. Yd.	126	
Concrete Structures		Cu. Yd.	17.7	
Reinforcement Bars, Epoxy Coated		Pound	2960	
Furnishing Steel Piles HP 12x53		Foot	300	
Driving Piles		Foot	300	
Test Pile Steel HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

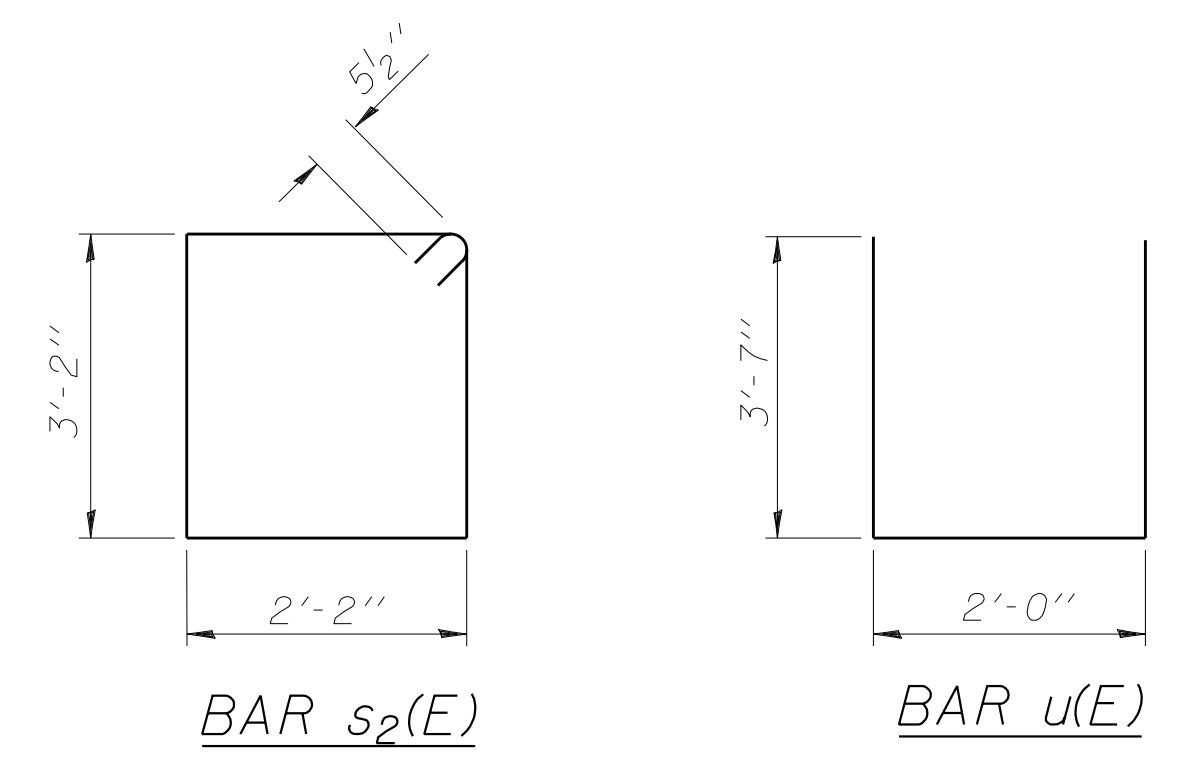
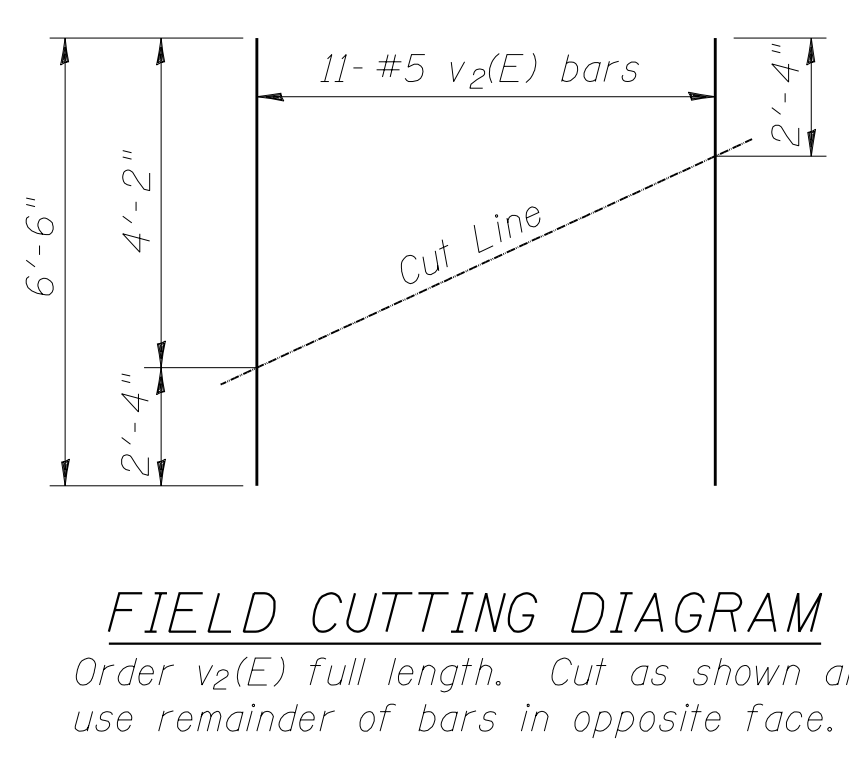
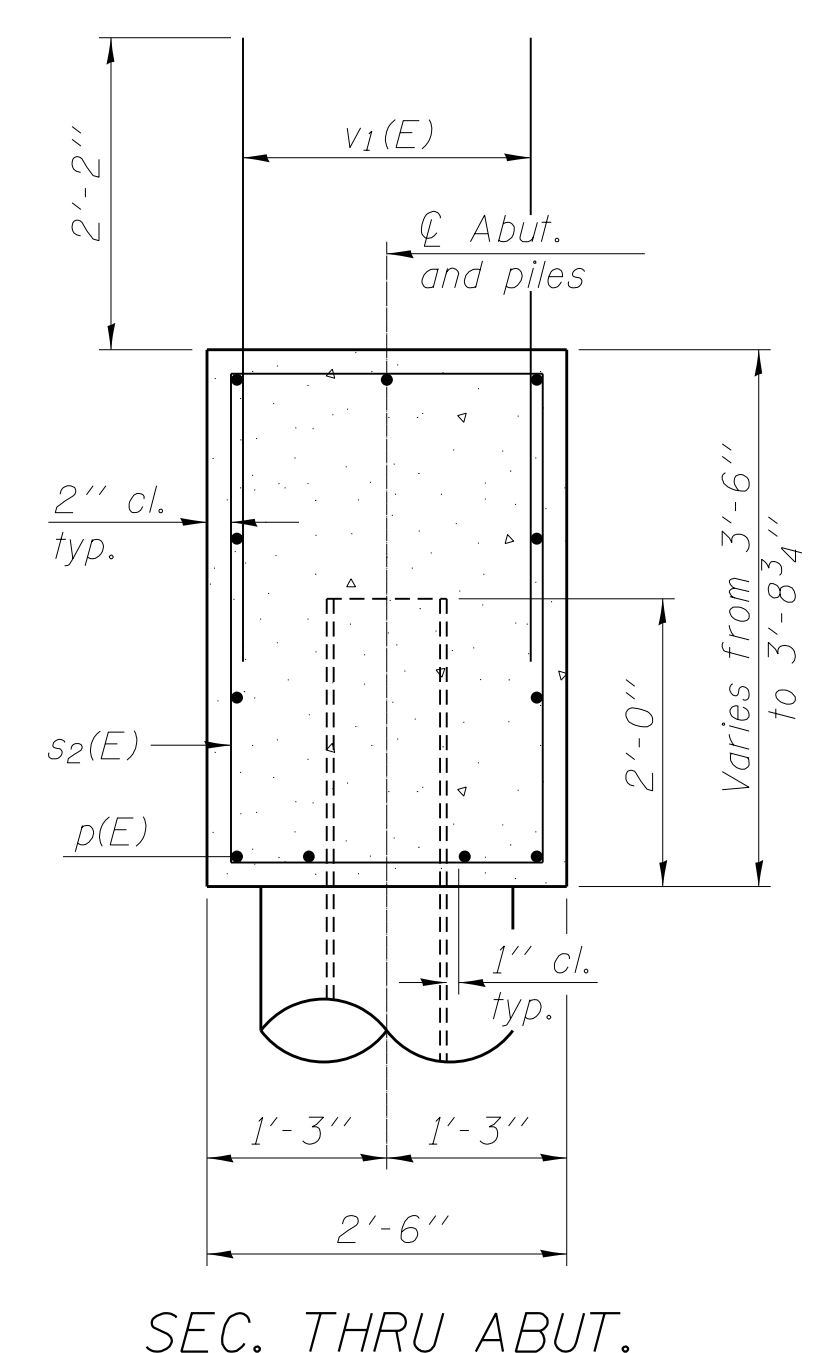
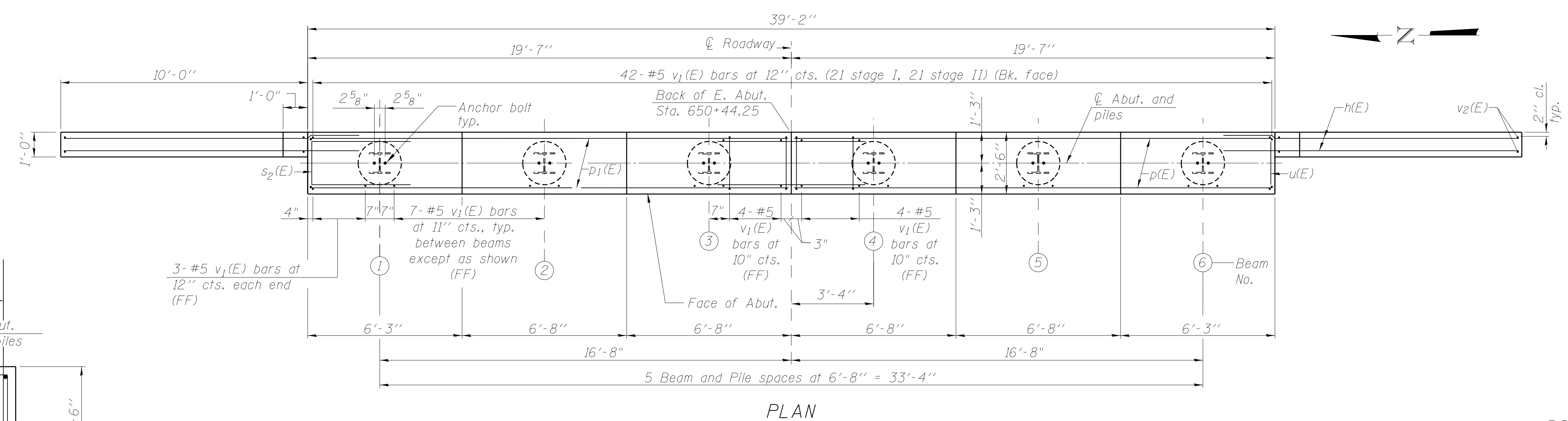
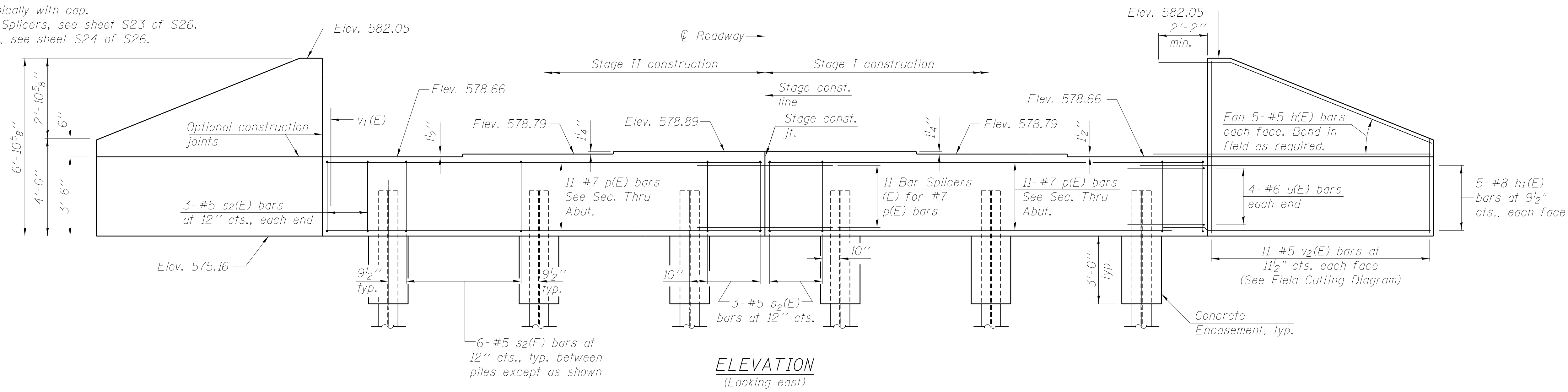
WEST ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 090 - 0178

SHEET NO. S19 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	59
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

Notes:
 Four steps monolithically with cap.
 For details of Bar Splicers, see sheet S23 of S26.
 For details of piles, see sheet S24 of S26.



PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 210 kips
 Allowable Resistance Available: 151 kips
 Est. Length: 60 ft.
 No. Production Piles: 5
 No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	12'-5"	—
h ₁ (E)	20	#8	14'-3"	—
p(E)	22	#7	19'-3"	—
s ₂ (E)	36	#5	11'-7"	□
u(E)	8	#6	9'-2"	□
v ₁ (E)	84	#5	4'-4"	—
v ₂ (E)	22	#5	6'-6"	—
Structure Excavation			Cu. Yd.	132
Concrete Structures			Cu. Yd.	17.7
Reinforcement Bars, Epoxy Coated			Pound	2960
Furnishing Steel Piles HP 12x53			Foot	300
Driving Piles			Foot	300
Test Pile Steel HP 12x53			Each	1
Concrete Encasement			Cu. Yd.	2.1

MAIL RT. 9, OIVER, MID, CREEK, CIVIL, CAD, Sheets\Structure\1\Final Plans\SH1\0468757-020-East-Abutment.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

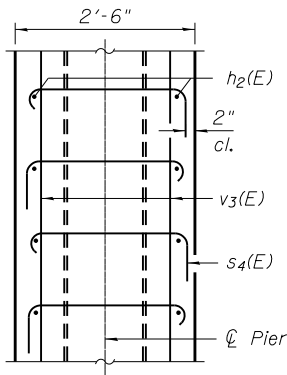
EAST ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 090 - 0178

SHEET NO. S20 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	60

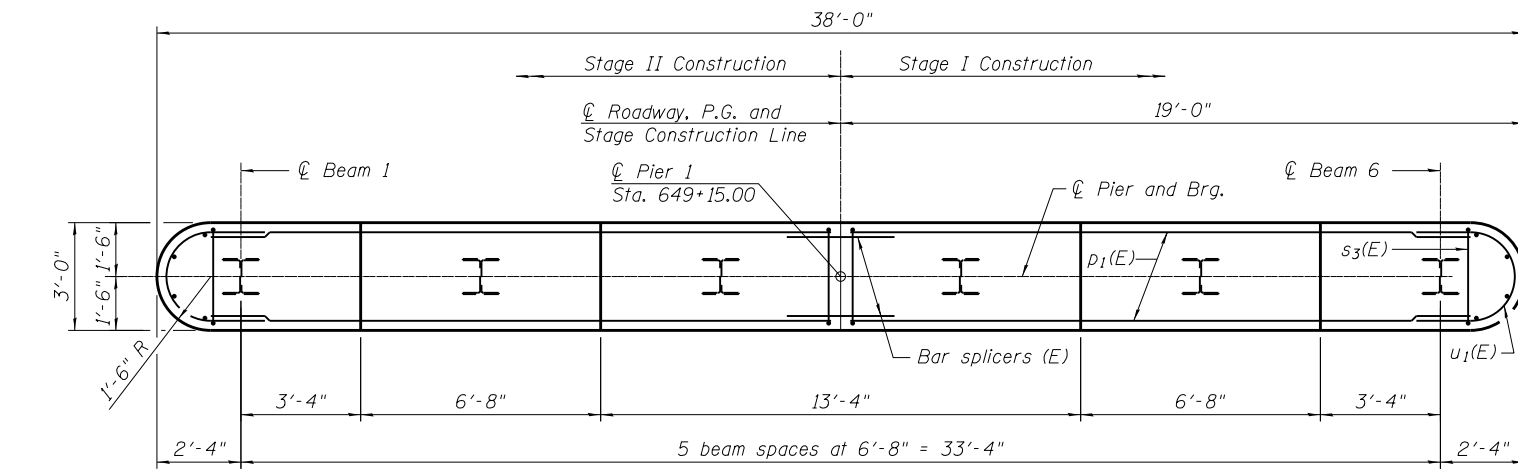
CONTRACT NO. 68757

ILLINOIS FED. AID PROJECT

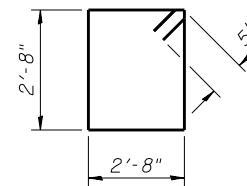


SECTION THRU WALL AT PILE LOCATION

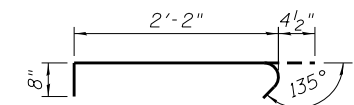
Alternate placement of 90° hooked end of s4(E) tie bars between vertical layers of tie bars.



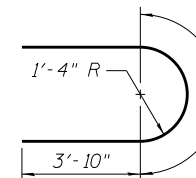
TOP PLAN



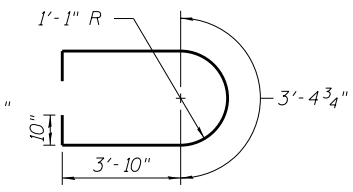
BAR s3(E)



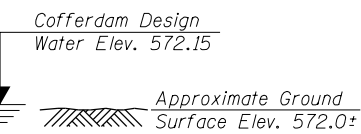
BAR s4(E)



BAR u1(E)



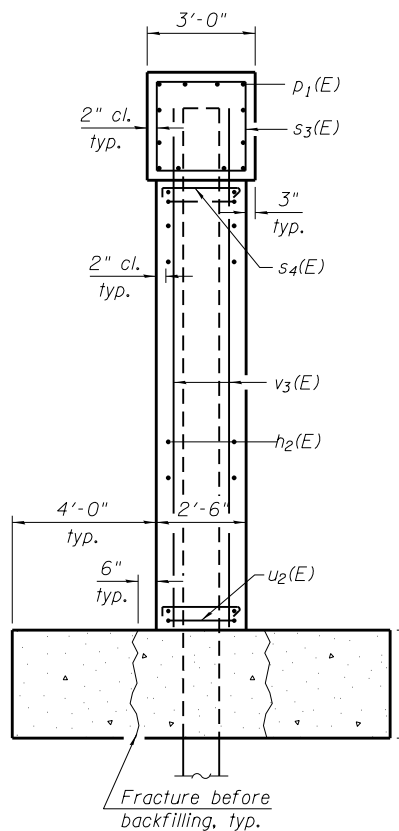
BAR u2(E)



PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	52	#6	17'-4"	—
p1(E)	24	#7	17'-4"	—
s3(E)	34	#5	11'-7"	□
s4(E)	156	#4	3'-3"	┌
u1(E)	8	#6	11'-11"	U
u2(E)	26	#6	12'-9"	U
v3(E)	80	#6	14'-6"	—
Cofferdam Excavation		Cu. Yd.	224	
Cofferdam (Type 2) (Location 1)		Each	1	
Concrete Structures		Cu. Yd.	55.6	
Seal Coat Concrete		Cu. Yd.	53.1	
Reinforcement Bars, Epoxy Coated		Pound	5,340	
Furnishing Steel Piles HP 14x73		Foot	295	
Driving Piles		Foot	295	
Test Pile Steel HP 14x73		Each	1	

Notes:
 Pour steps monolithically with cap.
 For pile details, see sheet S24 of S26.
 Space reinforcement in cap to miss anchor bolts.
 See sheet S17 of S26 for anchor bolt details.
 For details of Bar Splicers, see sheet S23 of S26.
 Seal coat thickness design is based on the Cofferdam Design Water Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

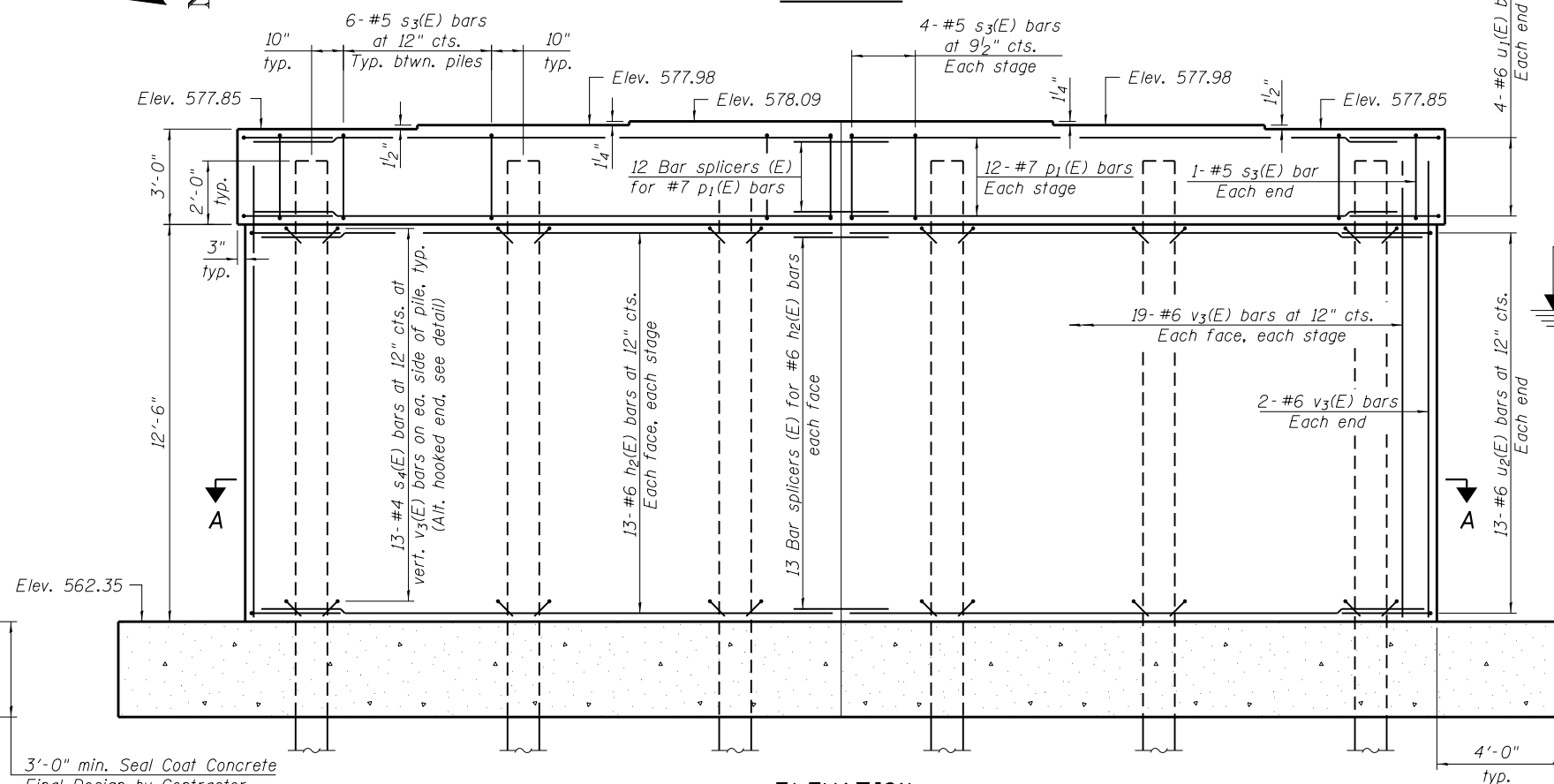


END VIEW

Contractor shall fracture seal coat (full depth) approximately 6" from each side of stem wall prior to backfilling. Care shall be taken to avoid damage to new construction. Cost included with Cofferdam (Type 2) (Location 1).

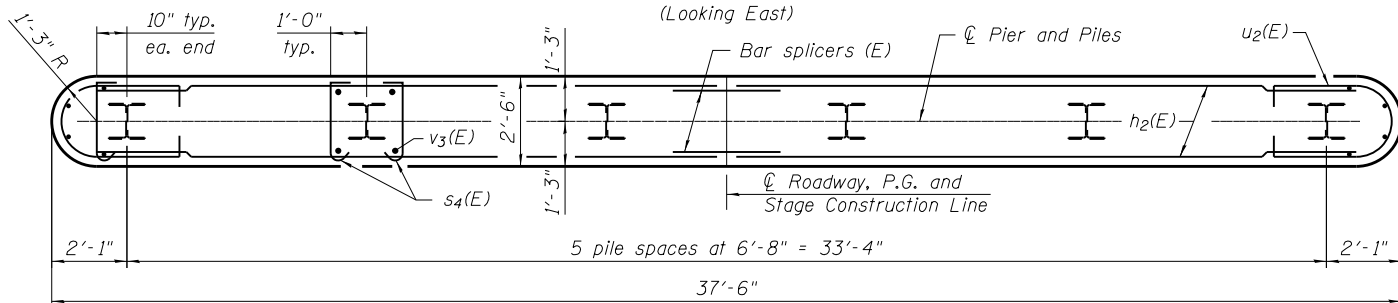
PILE DATA

Type: HP 14x73
 Nominal Required Bearing: 578 k
 Factored Resistance Available: 289 k
 Est. Length: 59'
 No. Production Piles: 5
 No. Test Piles: 1



ELEVATION

(Looking East)



SECTION A-A

Design firm
no. 184001036



engineers + planners + land surveyors

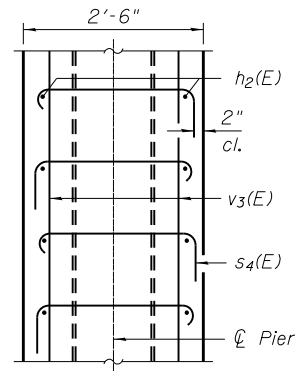
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PIER 1
STRUCTURE NO. 090-0178

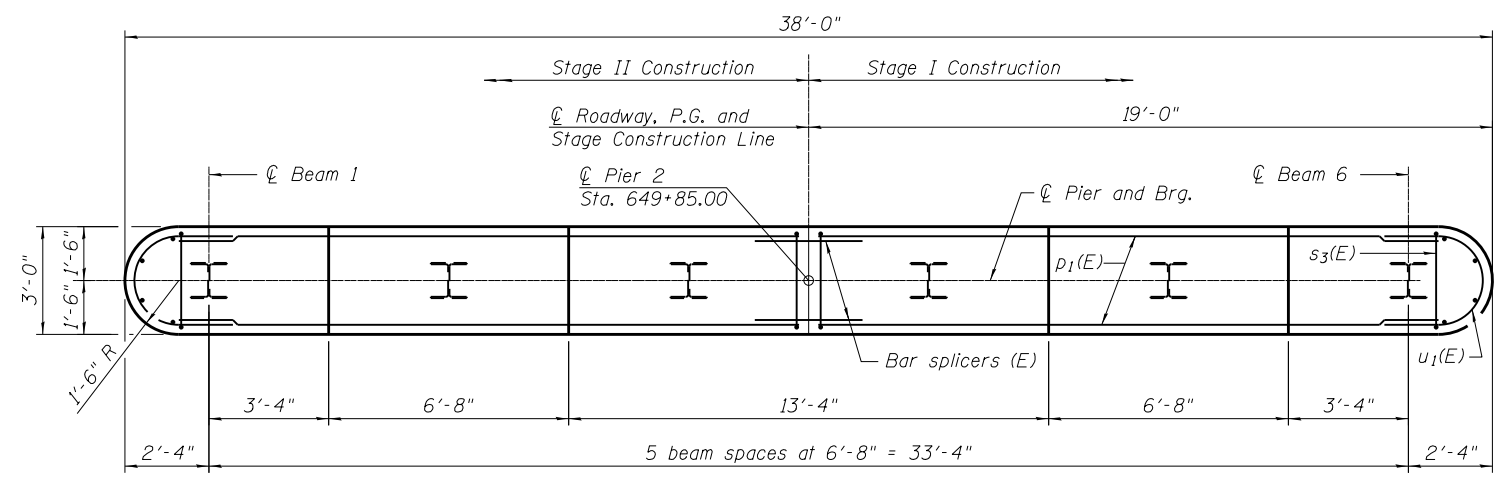
SHEET NO. S21 OF S26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	61
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

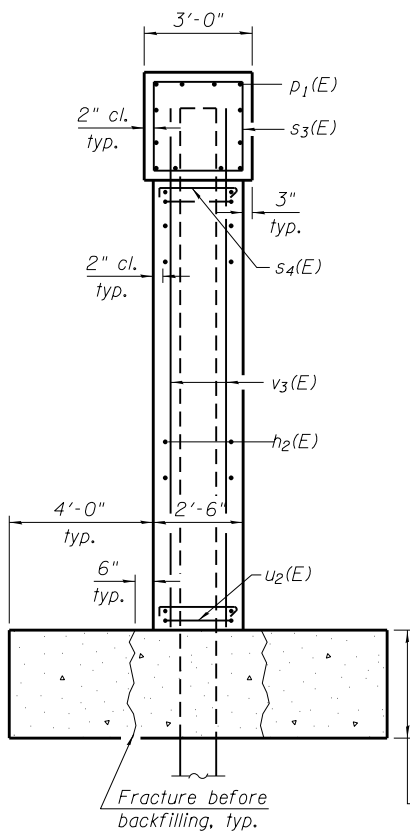


SECTION THRU WALL AT PILE LOCATION

Alternate placement of 90° hooked end of s4(E) tie bars between vertical layers of tie bars.



TOP PLAN

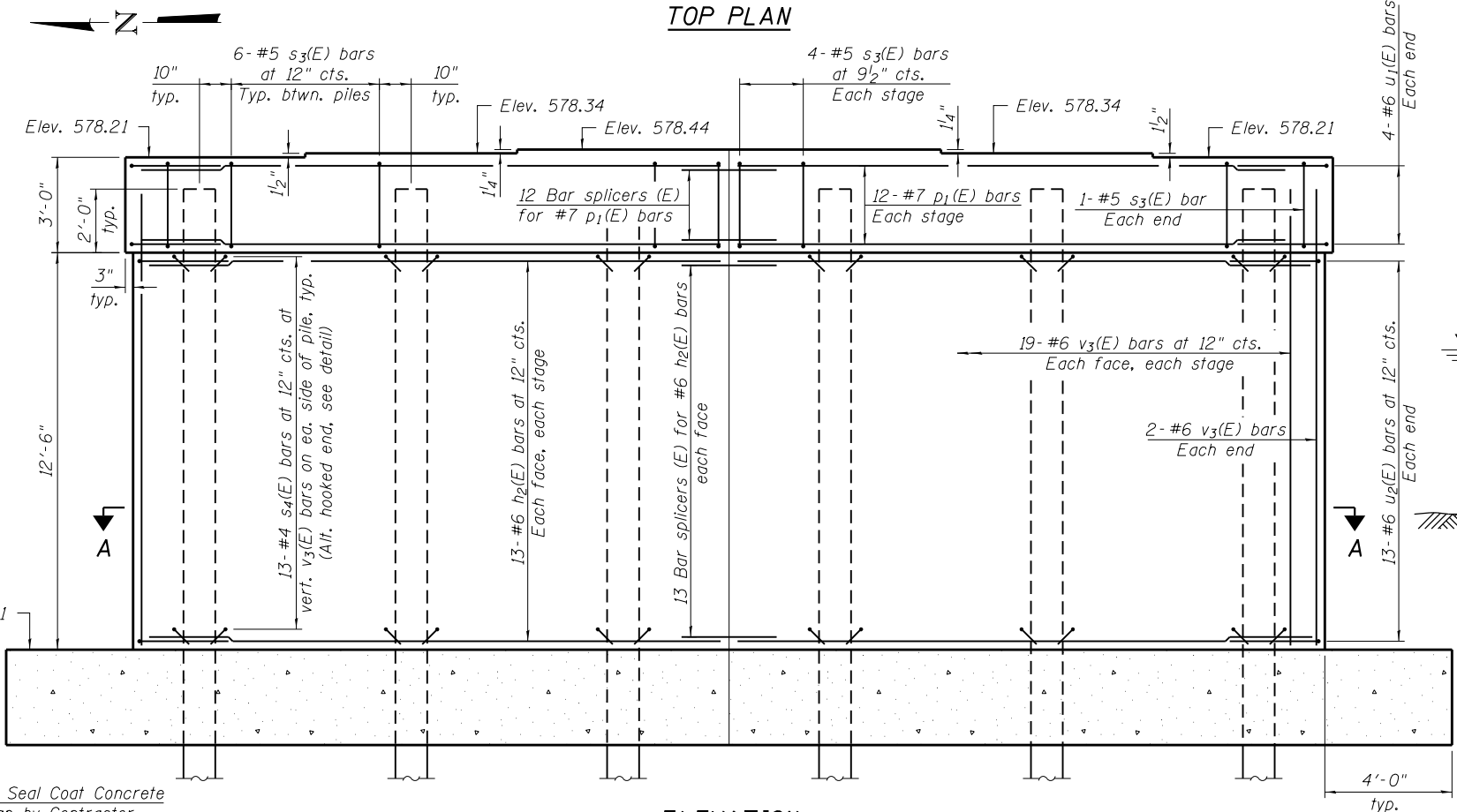


END VIEW

Contractor shall fracture seal coat (full depth) approximately 6" from each side of stem wall prior to backfilling. Care shall be taken to avoid damage to new construction. Cost included with Cofferdam (Type 2) (Location 2).

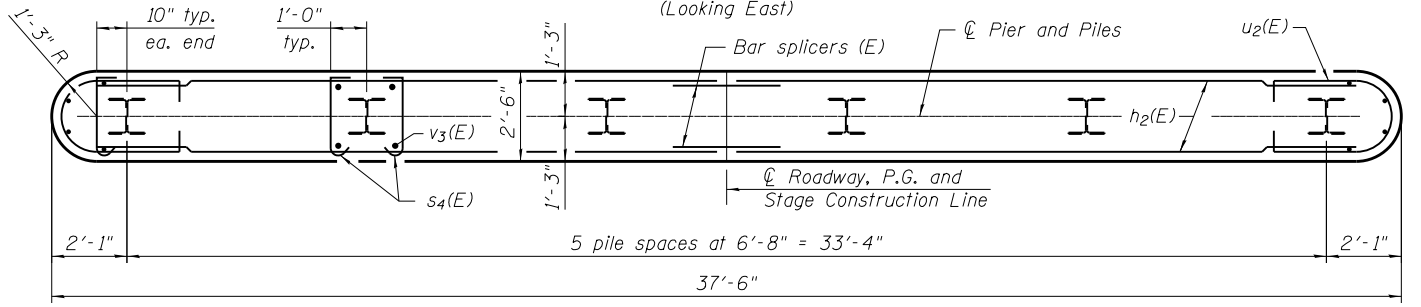
PILE DATA

Type: HP 14x73
 Nominal Required Bearing: 578 k
 Factored Resistance Available: 289 k
 Est. Length: 63'
 No. Production Piles: 5
 No. Test Piles: 1

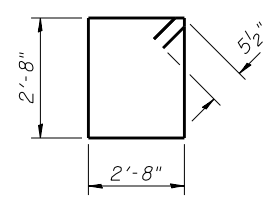


ELEVATION

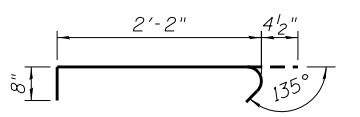
(Looking East)



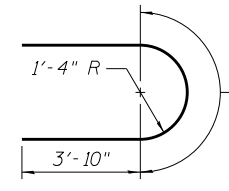
SECTION A-A



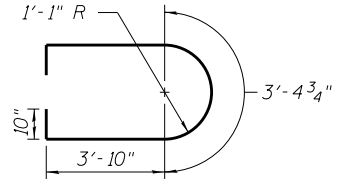
BAR s3(E)



BAR s4(E)



BAR u1(E)



BAR u2(E)

▼ Cofferdam Design
 Water Elev. 572.15

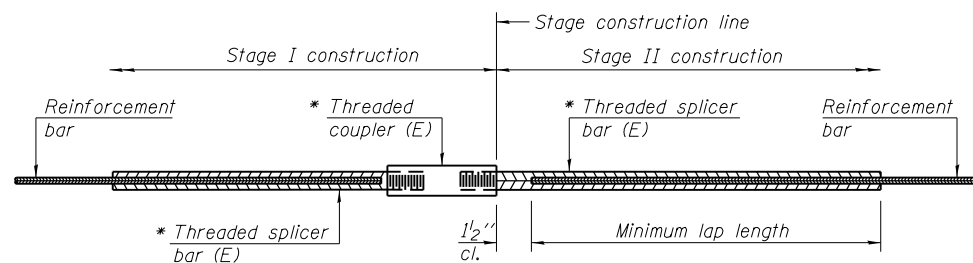
Approximate Ground
 Surface Elev. 567.0±

**PIER 2
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h2(E)	52	#6	17'-4"	—
p1(E)	24	#7	17'-4"	—
s3(E)	34	#5	11'-7"	U
s4(E)	156	#4	3'-3"	J
u1(E)	8	#6	11'-11"	U
u2(E)	26	#6	12'-9"	U
v3(E)	80	#6	14'-6"	—
Cofferdam Excavation		Cu. Yd.	129	
Cofferdam (Type 2) (Location 2)		Each	1	
Concrete Structures		Cu. Yd.	55.6	
Seal Coat Concrete		Cu. Yd.	53.1	
Reinforcement Bars, Epoxy Coated		Pound	5,340	
Furnishing Steel Piles HP 14x73		Foot	315	
Driving Piles		Foot	315	
Test Pile Steel HP 14x73		Each	1	

Notes:

Pour steps monolithically with cap.
 For pile details, see sheet S24 of S26.
 Space reinforcement in cap to miss anchor bolts.
 See sheet S17 of S26 for anchor bolt details.
 For details of Bar Splicers, see sheet S23 of S26.
 Seal coat thickness design is based on the Cofferdam Design Water Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.



STANDARD BAR SPLICER ASSEMBLY

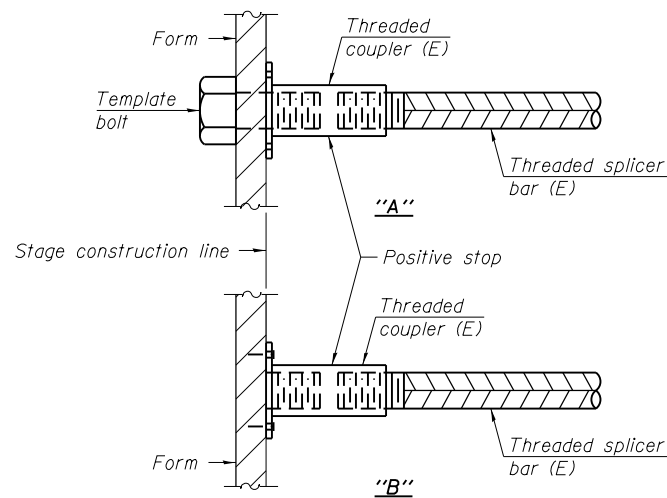
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

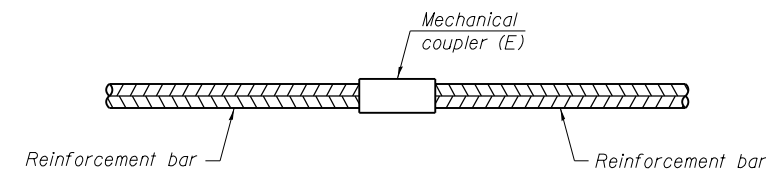
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	575	3
Diaphragms	#6	10	3
Appr. Slab	#4	50	3
Appr. Slab	#5	92	3
Appr. Slab Ftg.	#5	80	3
Abutments	#7	22	3
Piers	#7	24	3
Piers	#6	52	3



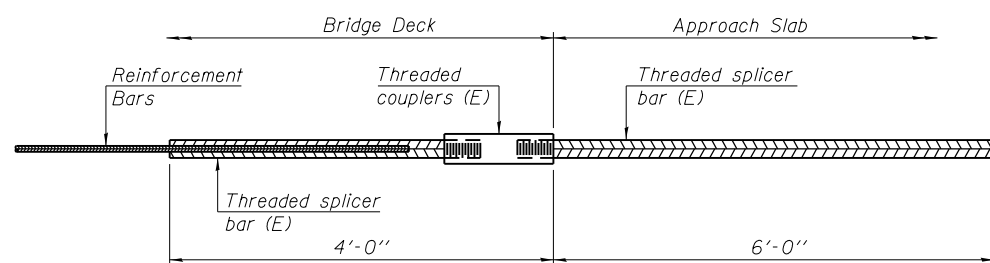
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



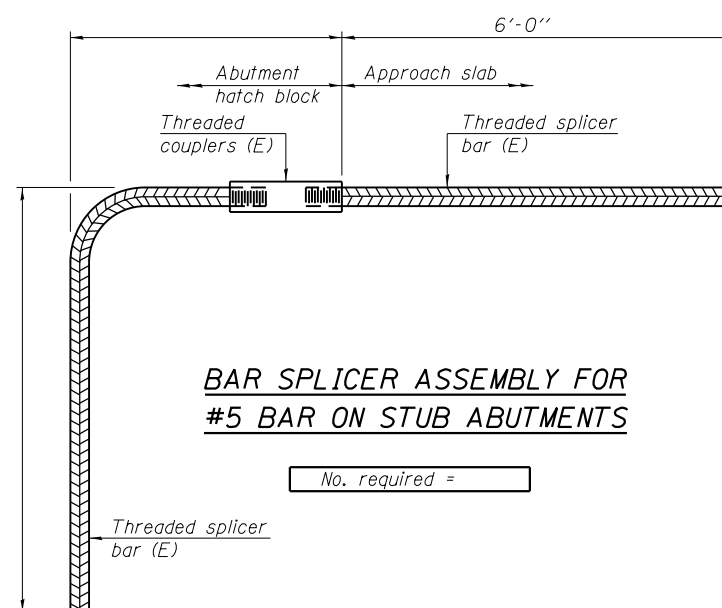
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 84



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MAIL RT. 9, OVER ROAD, CREEKVIEW, ILLINOIS 60631
 TERRA ENGINEERING LTD.
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 CHECKED - DA
 DRAWN - CM
 CHECKED - JB

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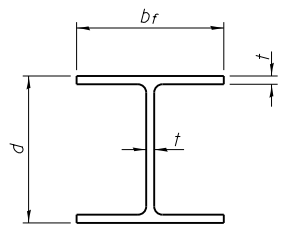
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND DETAILS STRUCTURE NO.090 - 0178

SHEET NO. S23 OF S26 SHEETS

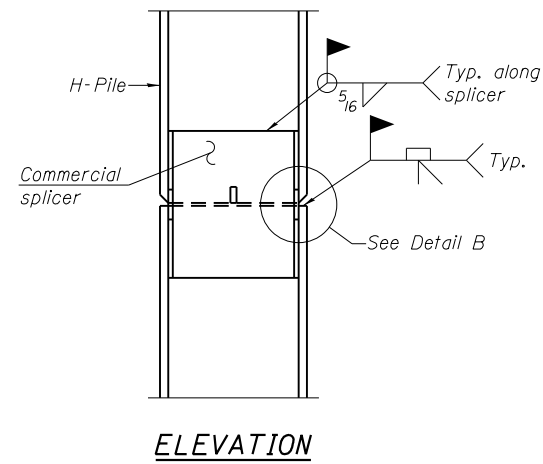
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	63
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT

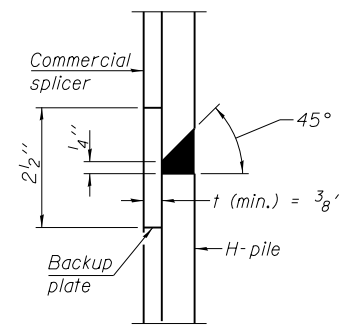


STEEL PILE TABLE

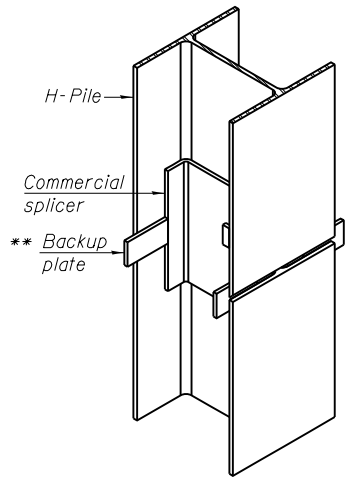
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

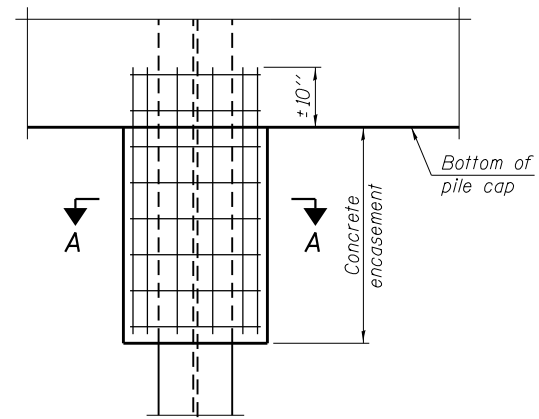


DETAIL "B"



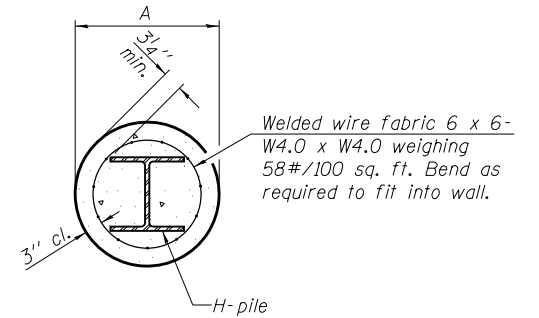
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



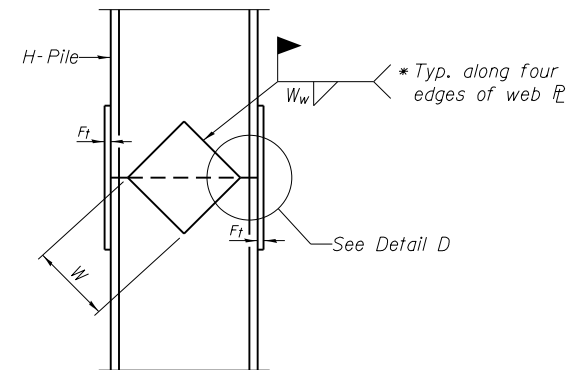
ELEVATION

PILE ENCASEMENT

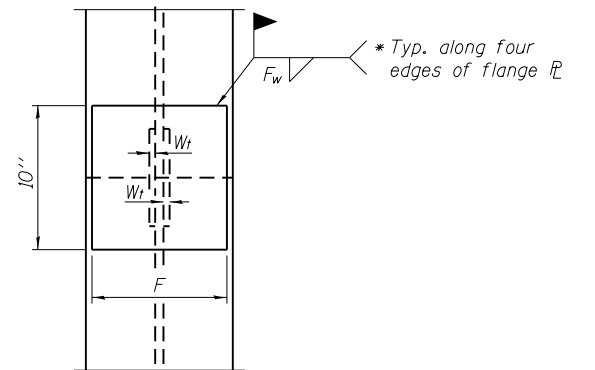


Note:
Forms for encasement may be omitted when soil conditions permit.

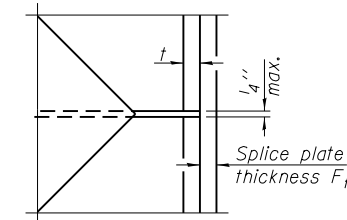
SECTION A-A



ELEVATION



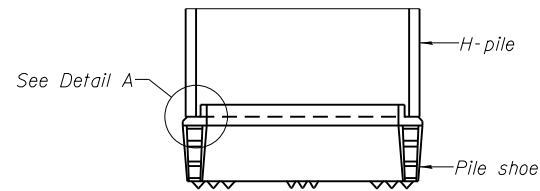
END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

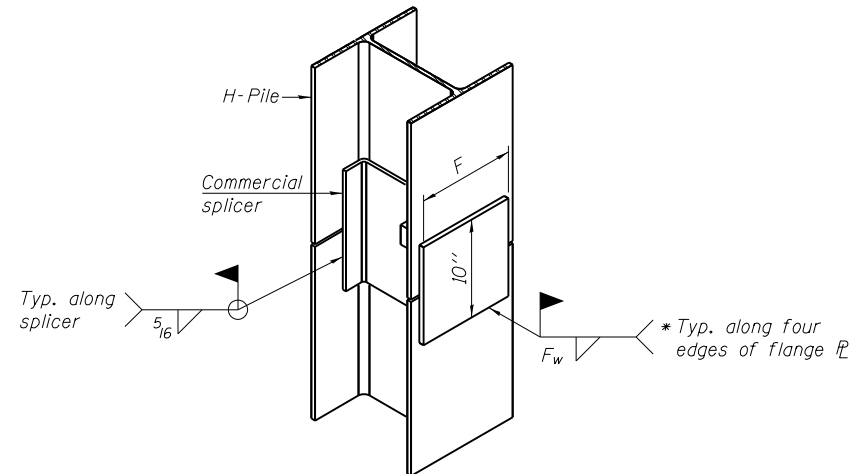
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5 8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5 8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5 8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

MAIL RT. 9 OVER ROAD CREEK CIVIL\CADD Sheets\Structural\Final Plans\SH1\0468757-024-Pile.dgn

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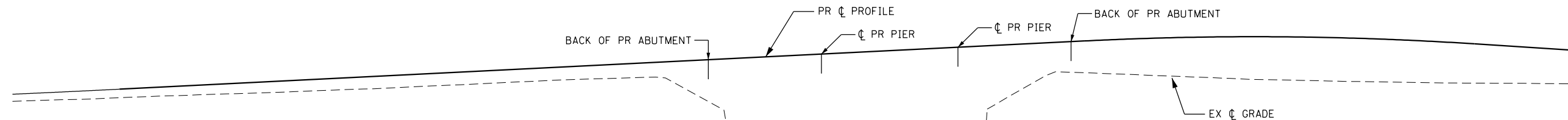
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PLOT DATE = 1/21/2013	CHECKED - JB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS
STRUCTURE NO. 090 - 0178

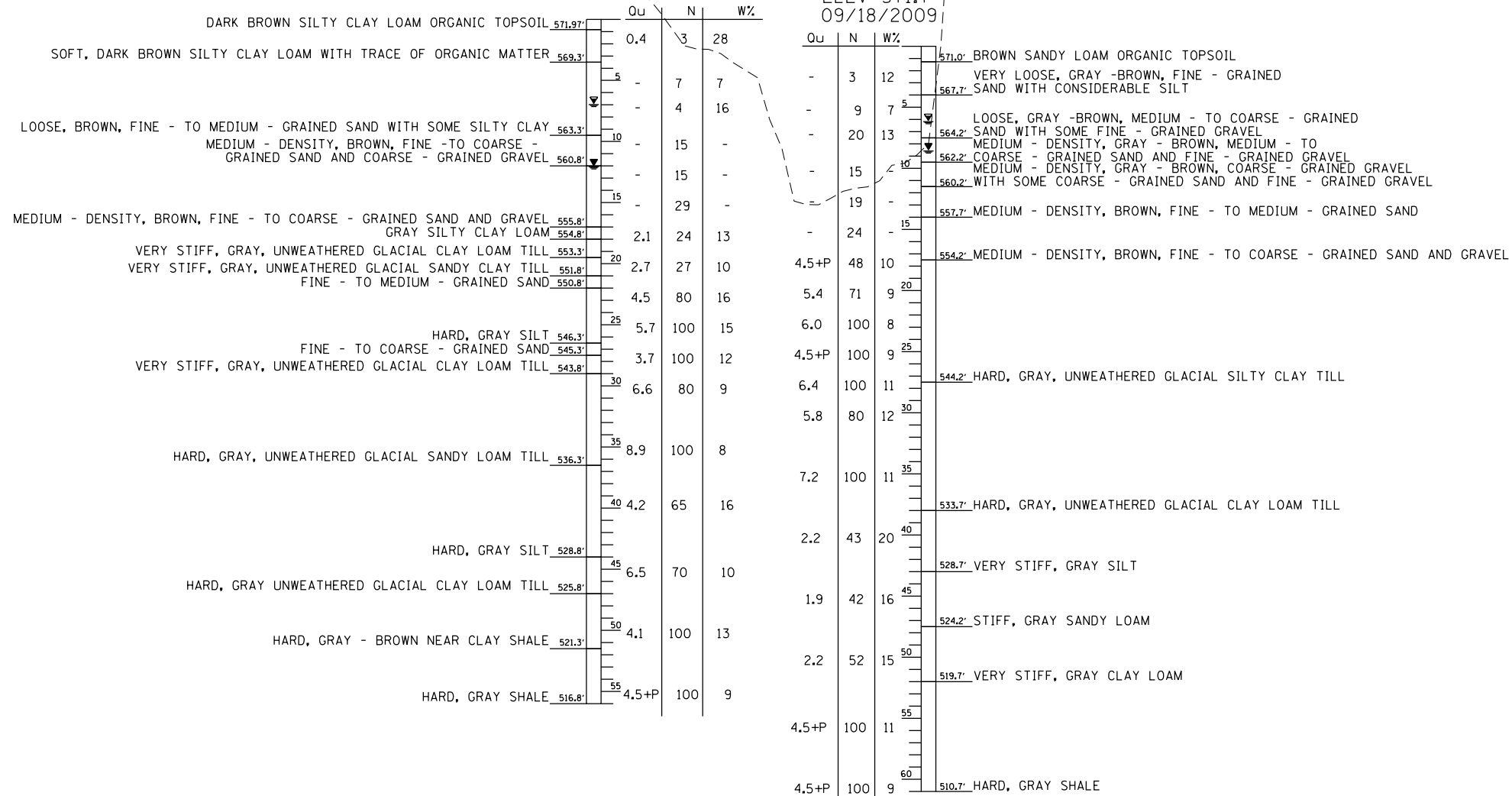
SHEET NO. S24 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	64
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



BORING 1
 STA 648+53
 30.0' LEFT
 ELEV 572.8'
 09/17/2009

BORING 3
 STA 649+90
 55.0' RIGHT
 ELEV 571.7'
 09/18/2009



LEGEND

EL = ELEVATION (FT)
 D = DEPTH BELOW EXISTING GROUND SURFACE (FT)
 N = SPT N-VALUE (AASHTO T206)
 Qu = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT. (TSF)
 W% = MOISTURE CONTENT PERCENTAGE

☺ = GROUNDWATER LEVEL FIRST ENCOUNTER
 ☹ = GROUNDWATER LEVEL UPON COMPLETION
 ☽ = GROUNDWATER LEVEL AFTER 24 HOURS

1" = 30' (H)
 1" = 3' (V)

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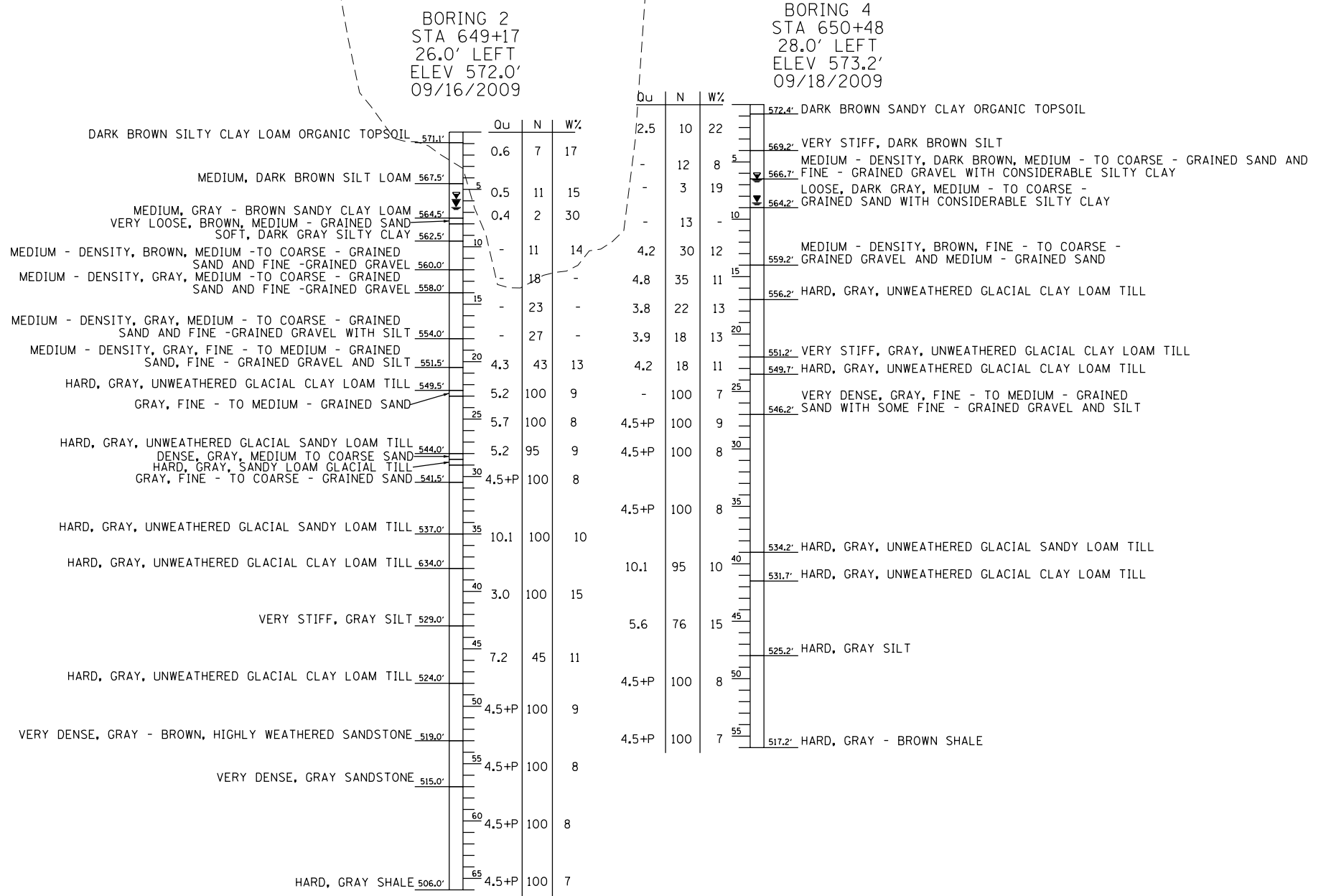
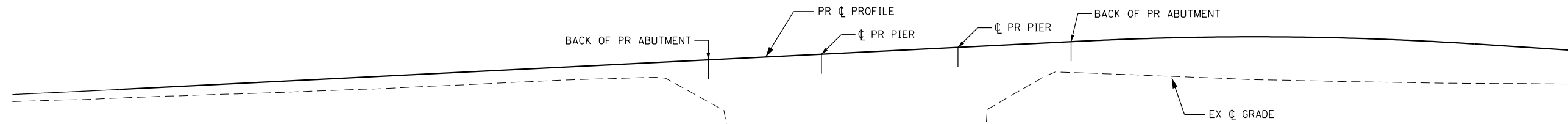
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS
 STRUCTURE NO. 090 - 0178**

SHEET NO. S25 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	65
CONTRACT NO. 68757				

ILLINOIS FED. AID PROJECT



LEGEND

EL = ELEVATION (FT)
 D = DEPTH BELOW EXISTING GROUND SURFACE (FT)
 N = SPT N-VALUE (AASHTO T206)
 Q_u = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT. (TSF)
 W% = MOISTURE CONTENT PERCENTAGE

- ▼ = GROUNDWATER LEVEL FIRST ENCOUNTER
- ▽ = GROUNDWATER LEVEL UPON COMPLETION
- ◊ = GROUNDWATER LEVEL AFTER 24 HOURS

1" = 30' (H)
 1" = 3' (V)

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DESIGNED - OY
 CHECKED - DA
 DRAWN - CM
 CHECKED - JB

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 090 - 0178

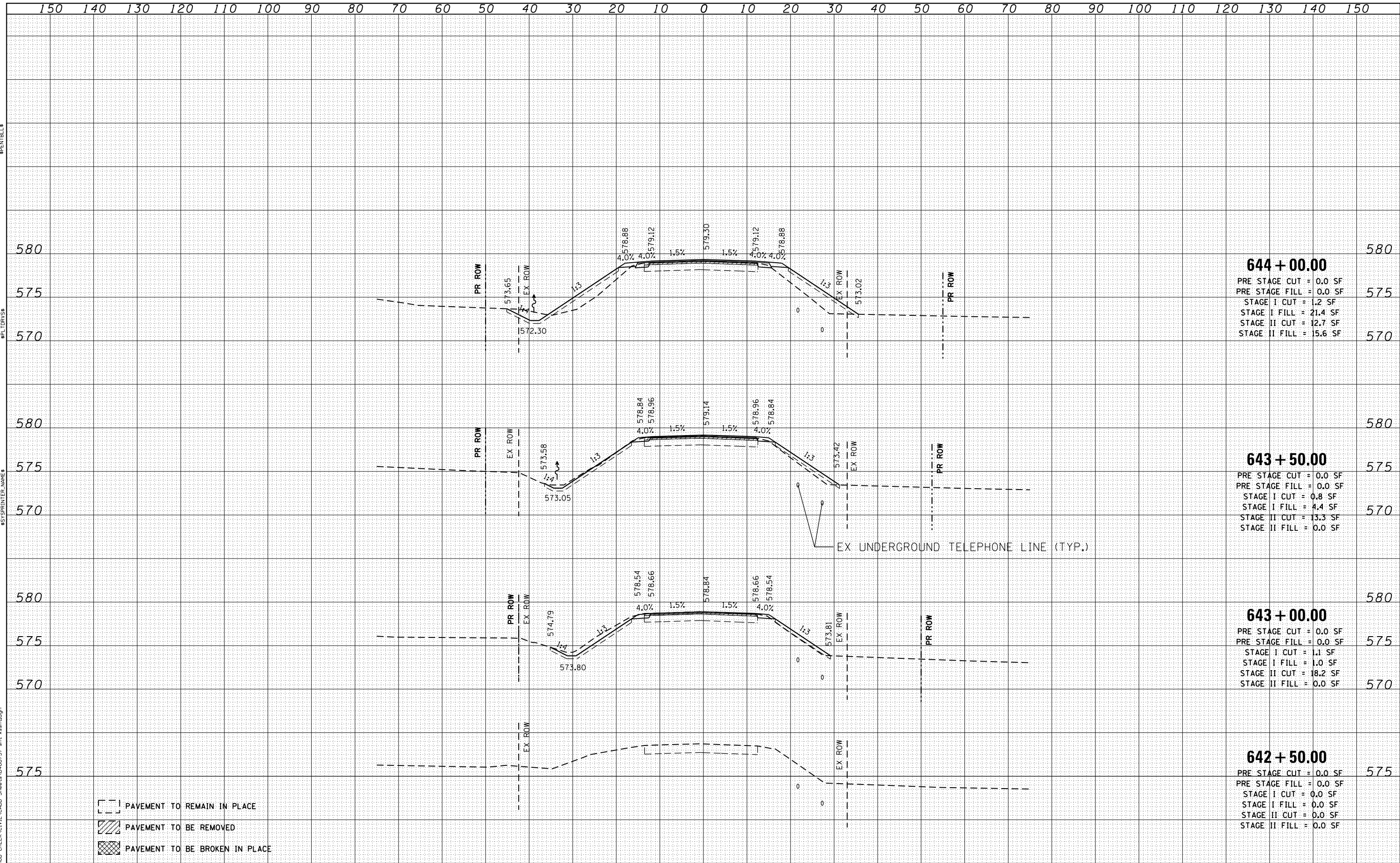
SHEET NO. S26 OF S26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	66
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

DATE	
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644 + 00.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	575
STAGE I CUT = 1.2 SF	
STAGE I FILL = 21.4 SF	
STAGE II CUT = 12.7 SF	
STAGE II FILL = 15.6 SF	570

643 + 50.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	575
STAGE I CUT = 0.8 SF	
STAGE I FILL = 4.4 SF	
STAGE II CUT = 13.3 SF	
STAGE II FILL = 0.0 SF	570

643 + 00.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	575
STAGE I CUT = 1.1 SF	
STAGE I FILL = 1.0 SF	
STAGE II CUT = 18.2 SF	
STAGE II FILL = 0.0 SF	570

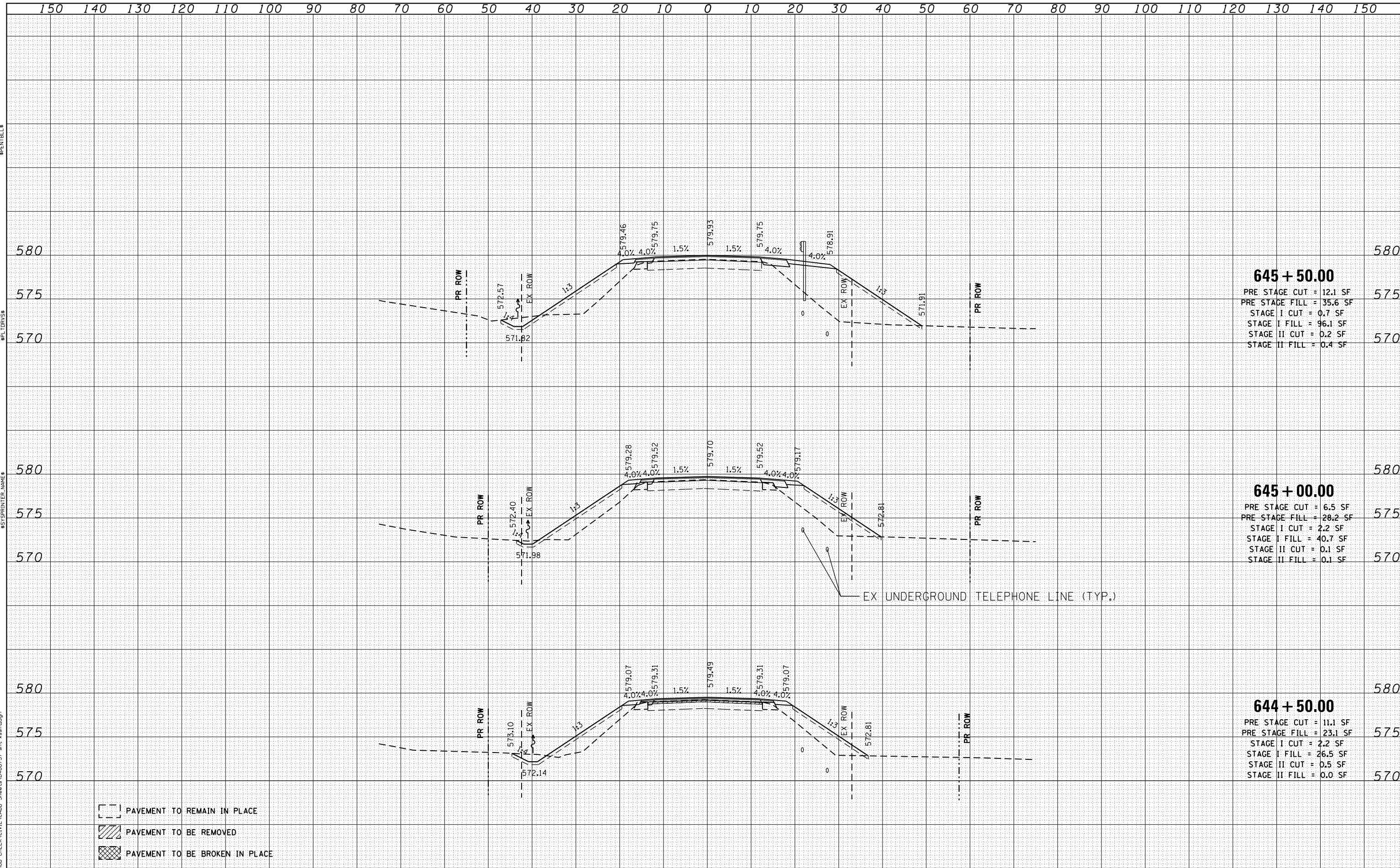
642 + 50.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	575
STAGE I CUT = 0.0 SF	
STAGE I FILL = 0.0 SF	
STAGE II CUT = 0.0 SF	
STAGE II FILL = 0.0 SF	570

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
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BY	
ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
NO. SHEETS	



645 + 50.00
 PRE STAGE CUT = 12.1 SF
 PRE STAGE FILL = 35.6 SF
 STAGE I CUT = 0.7 SF
 STAGE I FILL = 96.1 SF
 STAGE II CUT = 0.2 SF
 STAGE II FILL = 0.4 SF

645 + 00.00
 PRE STAGE CUT = 6.5 SF
 PRE STAGE FILL = 28.2 SF
 STAGE I CUT = 2.2 SF
 STAGE I FILL = 40.7 SF
 STAGE II CUT = 0.1 SF
 STAGE II FILL = 0.1 SF

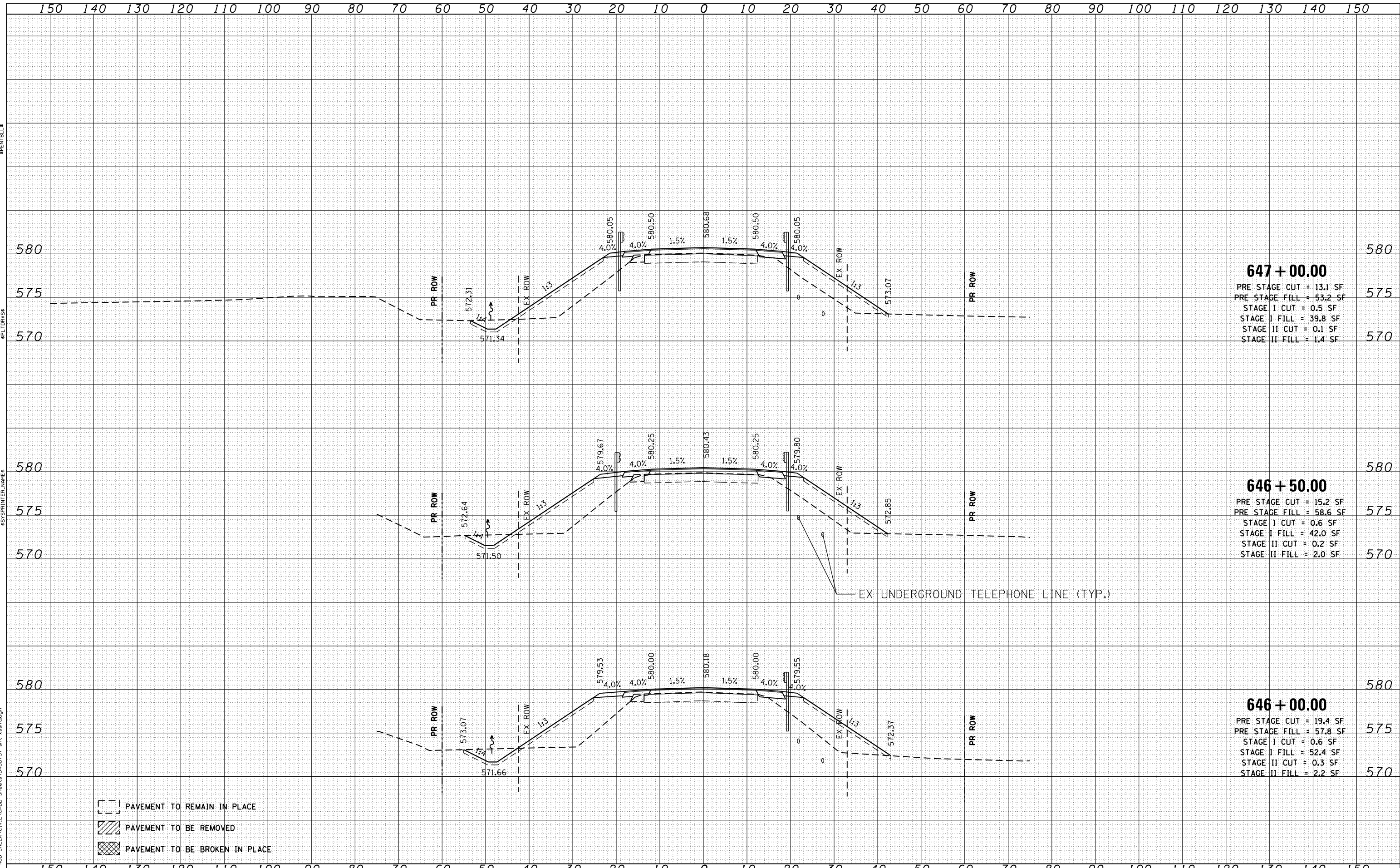
644 + 50.00
 PRE STAGE CUT = 11.1 SF
 PRE STAGE FILL = 23.1 SF
 STAGE I CUT = 2.2 SF
 STAGE I FILL = 26.5 SF
 STAGE II CUT = 0.5 SF
 STAGE II FILL = 0.0 SF

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE

DATE	
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647 + 00.00

PRE STAGE CUT	= 13.1 SF
PRE STAGE FILL	= 53.2 SF
STAGE I CUT	= 0.5 SF
STAGE I FILL	= 39.8 SF
STAGE II CUT	= 0.1 SF
STAGE II FILL	= 1.4 SF

646 + 50.00

PRE STAGE CUT	= 15.2 SF
PRE STAGE FILL	= 58.6 SF
STAGE I CUT	= 0.6 SF
STAGE I FILL	= 42.0 SF
STAGE II CUT	= 0.2 SF
STAGE II FILL	= 2.0 SF

646 + 00.00

PRE STAGE CUT	= 19.4 SF
PRE STAGE FILL	= 57.8 SF
STAGE I CUT	= 0.6 SF
STAGE I FILL	= 52.4 SF
STAGE II CUT	= 0.3 SF
STAGE II FILL	= 2.2 SF

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE



USER NAME	= TERRA
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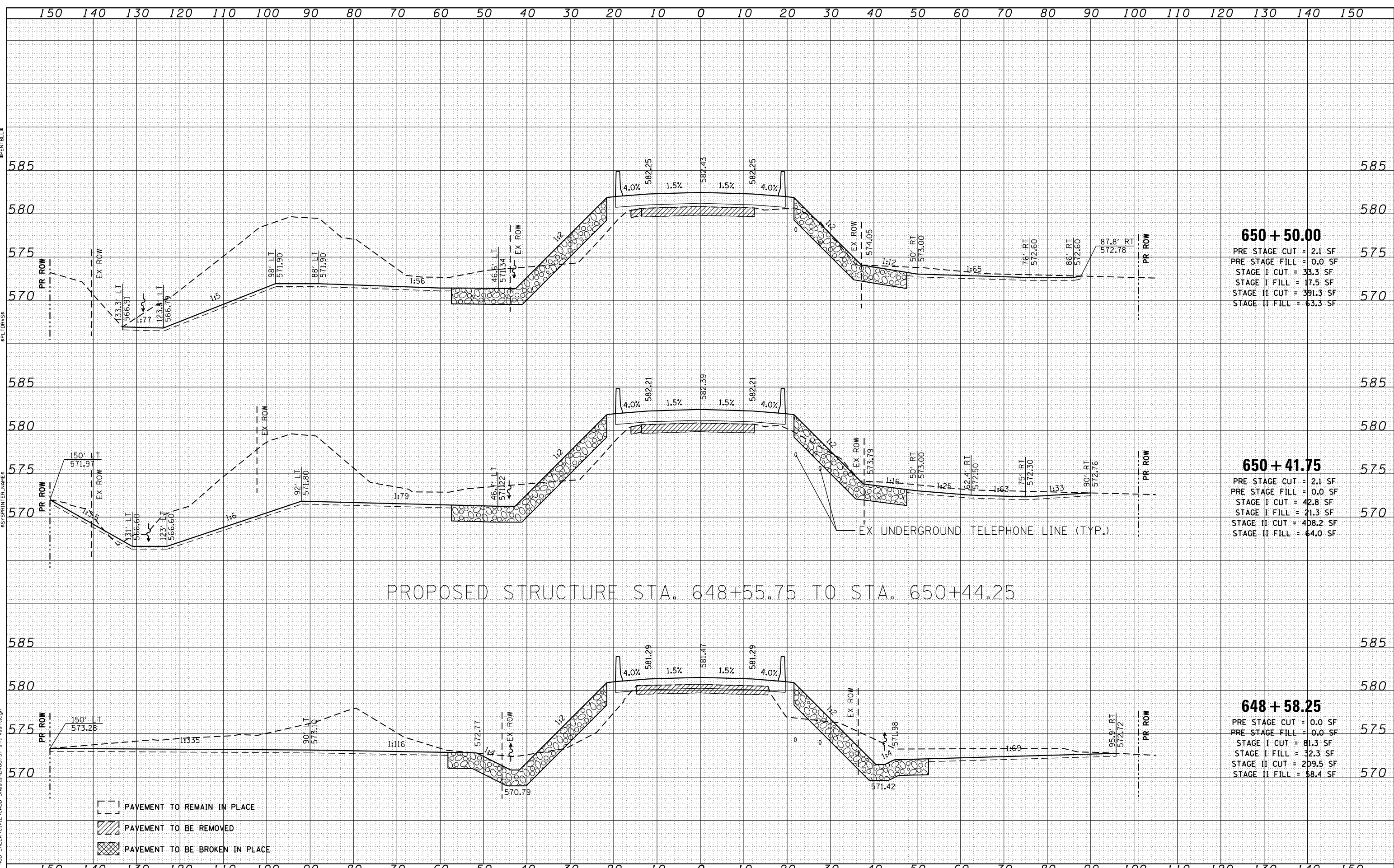
ROADWAY CROSS SECTIONS
IL 9 OVER MUD CREEK

SCALE: 1"=10' SHEET NO. 3 OF 10 SHEETS STA. 646+00.00 TO STA. 647+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	69
				CONTRACT NO. 68757
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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DATE	
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TEMPLATE	
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650 + 50.00
 PRE STAGE CUT = 2.1 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 33.3 SF
 STAGE I FILL = 17.5 SF
 STAGE II CUT = 391.3 SF
 STAGE II FILL = 63.3 SF

650 + 41.75
 PRE STAGE CUT = 2.1 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 42.8 SF
 STAGE I FILL = 21.3 SF
 STAGE II CUT = 408.2 SF
 STAGE II FILL = 64.0 SF

648 + 58.25
 PRE STAGE CUT = 0.0 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 81.3 SF
 STAGE I FILL = 32.3 SF
 STAGE II CUT = 209.5 SF
 STAGE II FILL = 58.4 SF

PROPOSED STRUCTURE STA. 648+55.75 TO STA. 650+44.25

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE



USER NAME = TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013 11:18:17 AM	DATE - 01/25/13	REVISED -

STATE OF ILLINOIS
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ROADWAY CROSS SECTIONS
 IL 9 OVER MUD CREEK

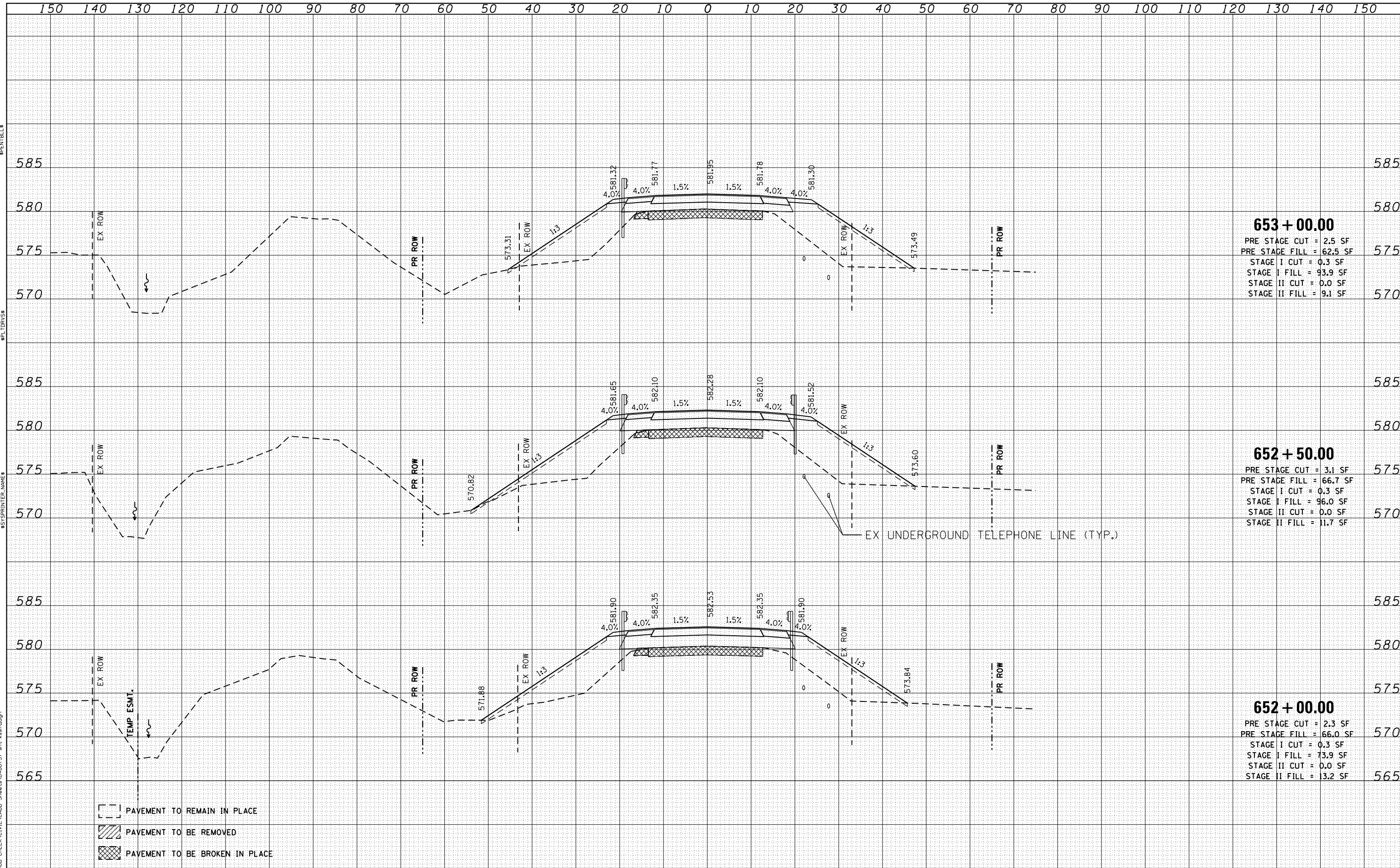
SCALE: 1"=10' SHEET NO. 5 OF 10 SHEETS STA. 648+58.25 TO STA. 650+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	71
				CONTRACT NO. 68757

ILLINOIS FED. AID PROJECT

DATE	
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DATE	
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653 + 00.00
 PRE STAGE CUT = 2.5 SF
 PRE STAGE FILL = 62.5 SF
 STAGE I CUT = 0.3 SF
 STAGE I FILL = 93.9 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 9.1 SF

652 + 50.00
 PRE STAGE CUT = 3.1 SF
 PRE STAGE FILL = 66.7 SF
 STAGE I CUT = 0.3 SF
 STAGE I FILL = 96.0 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 11.7 SF

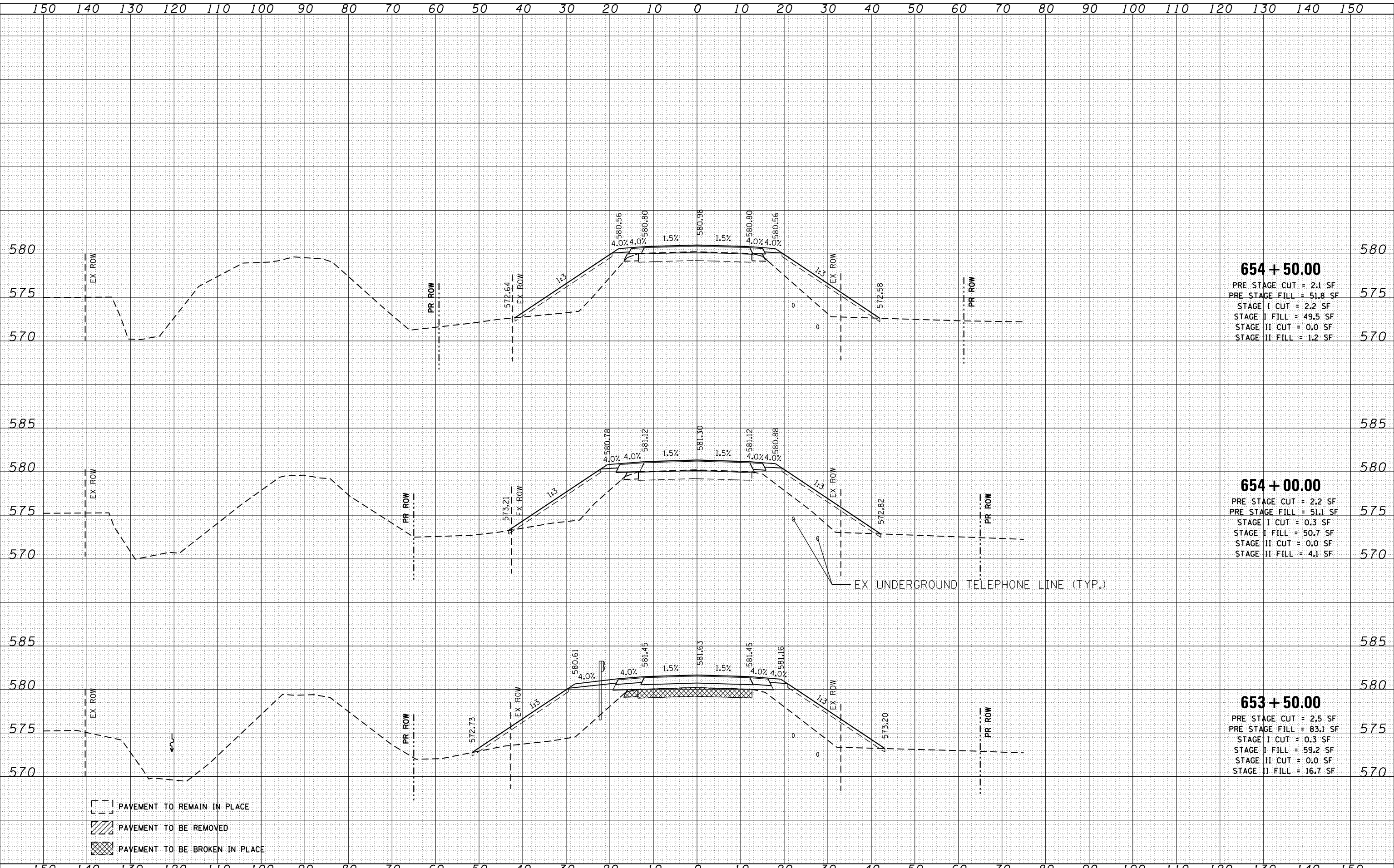
652 + 00.00
 PRE STAGE CUT = 2.3 SF
 PRE STAGE FILL = 66.0 SF
 STAGE I CUT = 0.3 SF
 STAGE I FILL = 73.9 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 13.2 SF

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE

DATE	
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654 + 50.00
 PRE STAGE CUT = 2.1 SF
 PRE STAGE FILL = 51.8 SF
 STAGE I CUT = 2.2 SF
 STAGE I FILL = 49.5 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 1.2 SF

654 + 00.00
 PRE STAGE CUT = 2.2 SF
 PRE STAGE FILL = 51.1 SF
 STAGE I CUT = 0.3 SF
 STAGE I FILL = 50.7 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 4.1 SF

653 + 50.00
 PRE STAGE CUT = 2.5 SF
 PRE STAGE FILL = 83.1 SF
 STAGE I CUT = 0.3 SF
 STAGE I FILL = 59.2 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 16.7 SF

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE



USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

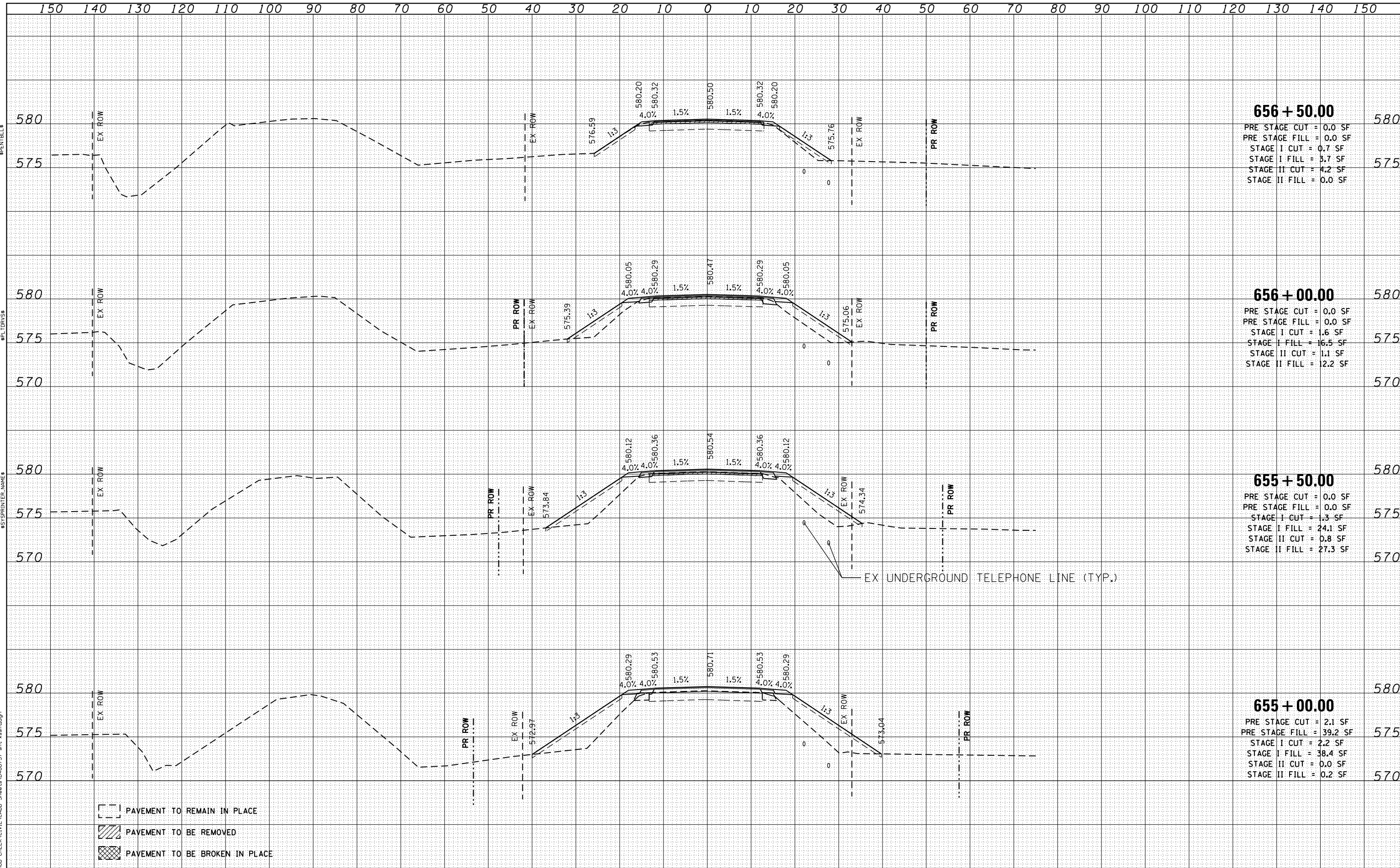
**ROADWAY CROSS SECTIONS
 IL 9 OVER MUD CREEK**

SCALE: 1"=10' SHEET NO. 8 OF 10 SHEETS STA. 653+50.00 TO STA. 654+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	74
				CONTRACT NO. 68757
ILLINOIS FED. AID PROJECT				

DATE	
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DATE	
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ORIGINAL SURVEY	
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SPRINTER NAMES	
AREAS CHECKED	



656 + 50.00
 PRE STAGE CUT = 0.0 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 0.7 SF
 STAGE I FILL = 3.7 SF
 STAGE II CUT = 4.2 SF
 STAGE II FILL = 0.0 SF

656 + 00.00
 PRE STAGE CUT = 0.0 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 1.6 SF
 STAGE I FILL = 16.5 SF
 STAGE II CUT = 1.1 SF
 STAGE II FILL = 12.2 SF

655 + 50.00
 PRE STAGE CUT = 0.0 SF
 PRE STAGE FILL = 0.0 SF
 STAGE I CUT = 1.3 SF
 STAGE I FILL = 24.1 SF
 STAGE II CUT = 0.8 SF
 STAGE II FILL = 27.3 SF

655 + 00.00
 PRE STAGE CUT = 2.1 SF
 PRE STAGE FILL = 39.2 SF
 STAGE I CUT = 2.2 SF
 STAGE I FILL = 38.4 SF
 STAGE II CUT = 0.0 SF
 STAGE II FILL = 0.2 SF

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE



USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
IL 9 OVER MUD CREEK**

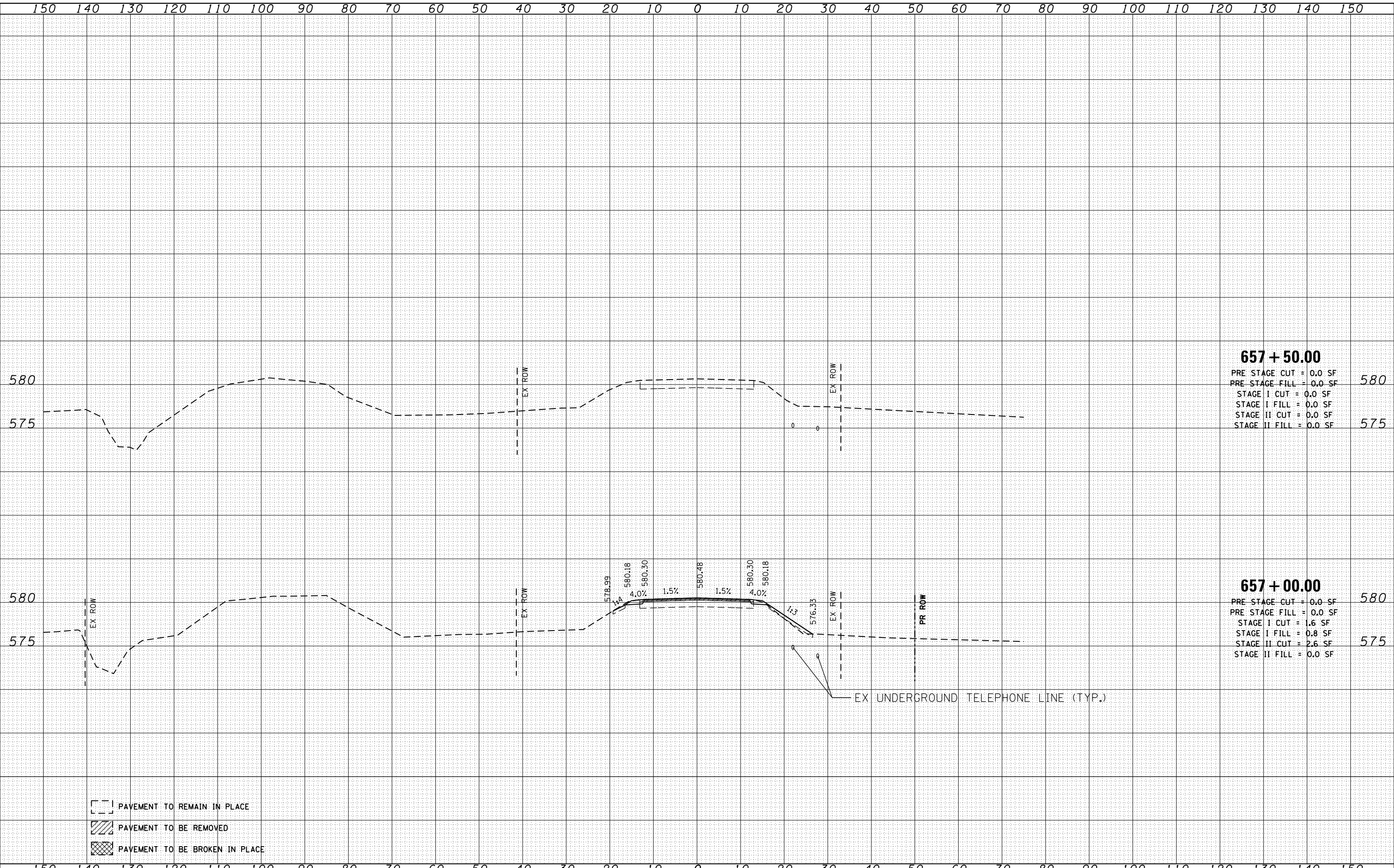
SCALE: 1"=10' SHEET NO. 9 OF 10 SHEETS STA. 655+00.00 TO STA. 656+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	75
				CONTRACT NO. 68757

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	
NO.	

\$PLOTTERNAME\$
 \$PLOTDATE\$
 \$PLOTSCALE\$
 \$PLOTBY\$
 \$PLOTDATE\$



657 + 50.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	
STAGE I CUT = 0.0 SF	
STAGE I FILL = 0.0 SF	
STAGE II CUT = 0.0 SF	
STAGE II FILL = 0.0 SF	575

657 + 00.00

PRE STAGE CUT = 0.0 SF	580
PRE STAGE FILL = 0.0 SF	
STAGE I CUT = 1.6 SF	
STAGE I FILL = 0.8 SF	
STAGE II CUT = 2.6 SF	575
STAGE II FILL = 0.0 SF	

- PAVEMENT TO REMAIN IN PLACE
- PAVEMENT TO BE REMOVED
- PAVEMENT TO BE BROKEN IN PLACE



USER NAME - TERRA	DESIGNED - CL	REVISIED -
	DRAWN - KJC	REVISIED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISIED -
PLOT DATE = 1/23/2013 11:21:27 AM	DATE - 01/25/13	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY CROSS SECTIONS
IL 9 OVER MUD CREEK**

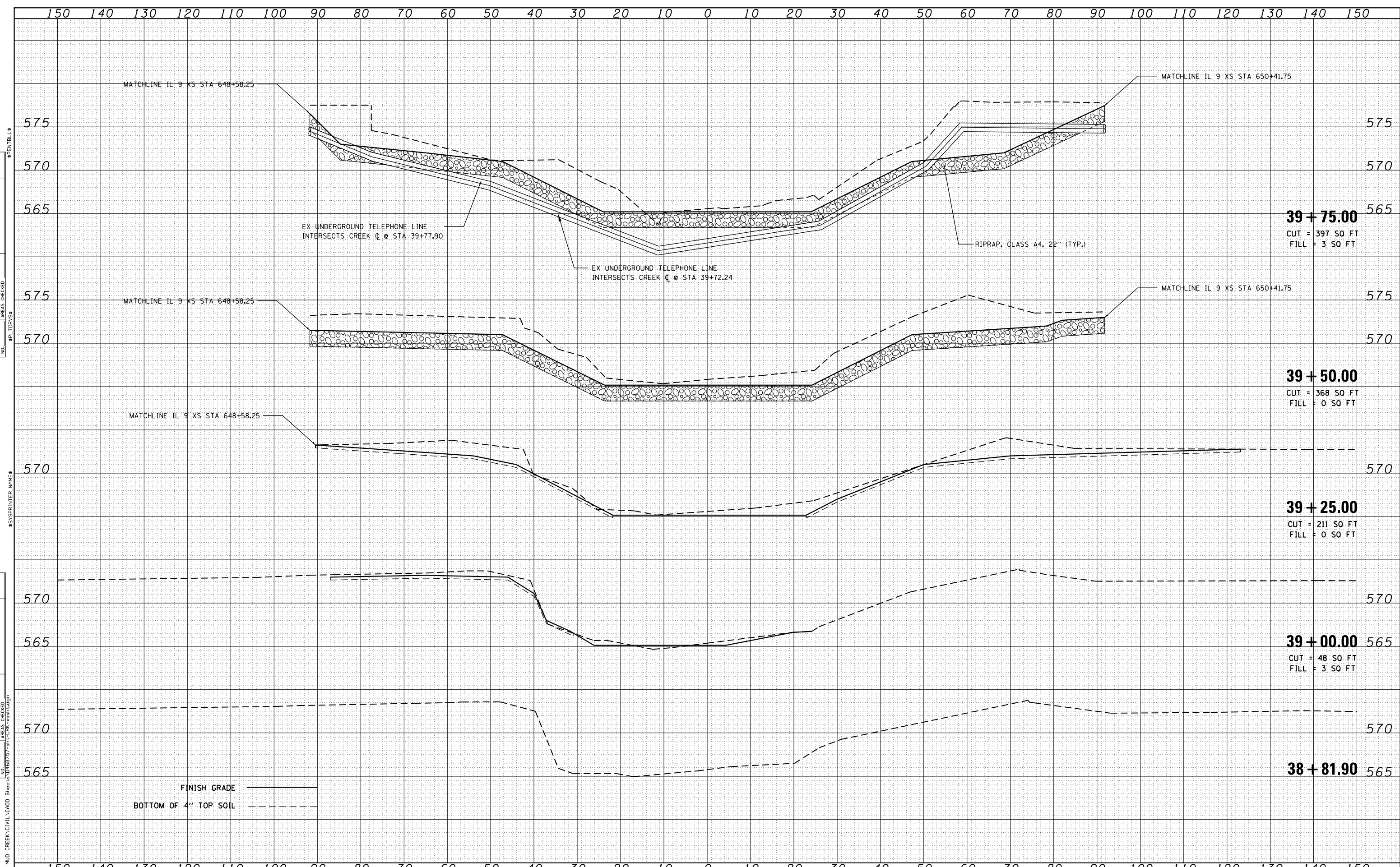
SCALE: 1"=10' SHEET NO. 10 OF 10 SHEETS STA. 657+00.00 TO STA. 657+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	76
				CONTRACT NO. 68757

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



MAIL RT 9 OVER MUD CREEK CIVIL CAD SHEET 6875

TERRA
ENGINEERING LTD.

USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013 11:22:11 AM	DATE - 01/25/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

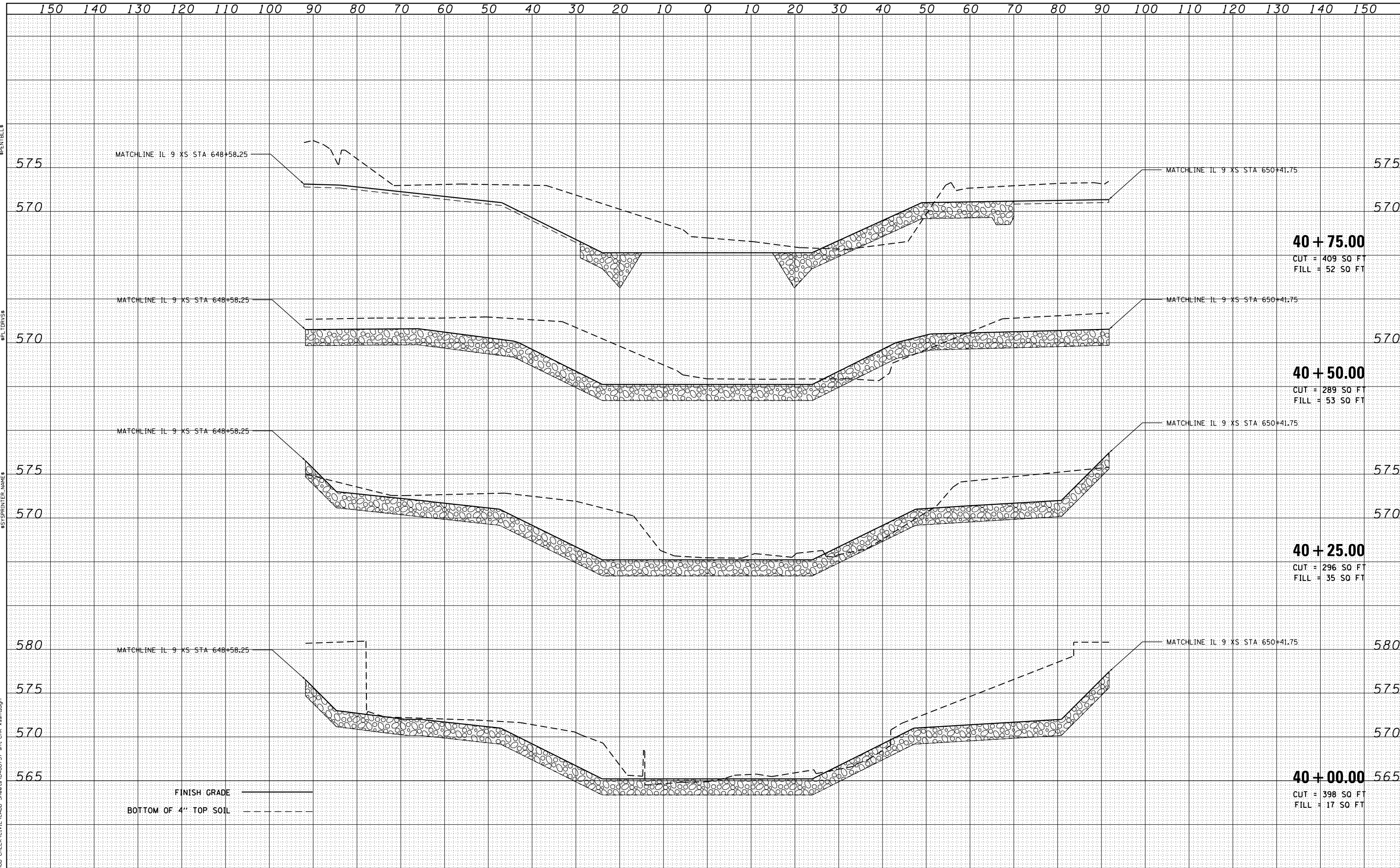
MUD CREEK CROSS SECTIONS
IL 9 OVER MUD CREEK

SCALE: 1"=10' SHEET NO. 1 OF 4 SHEETS STA. 38+81.90 TO STA. 39+75.00

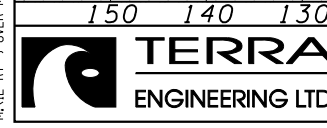
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	77
			CONTRACT NO.	68757
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
SPRINTER	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SPRINTER	
AREAS CHECKED	



MAIL RT 9 OVER MUD CREEK CIVIL CAD SHEET 2 OF 4



USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE - 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE - 1/23/2013 11:22:39 AM	DATE - 01/25/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

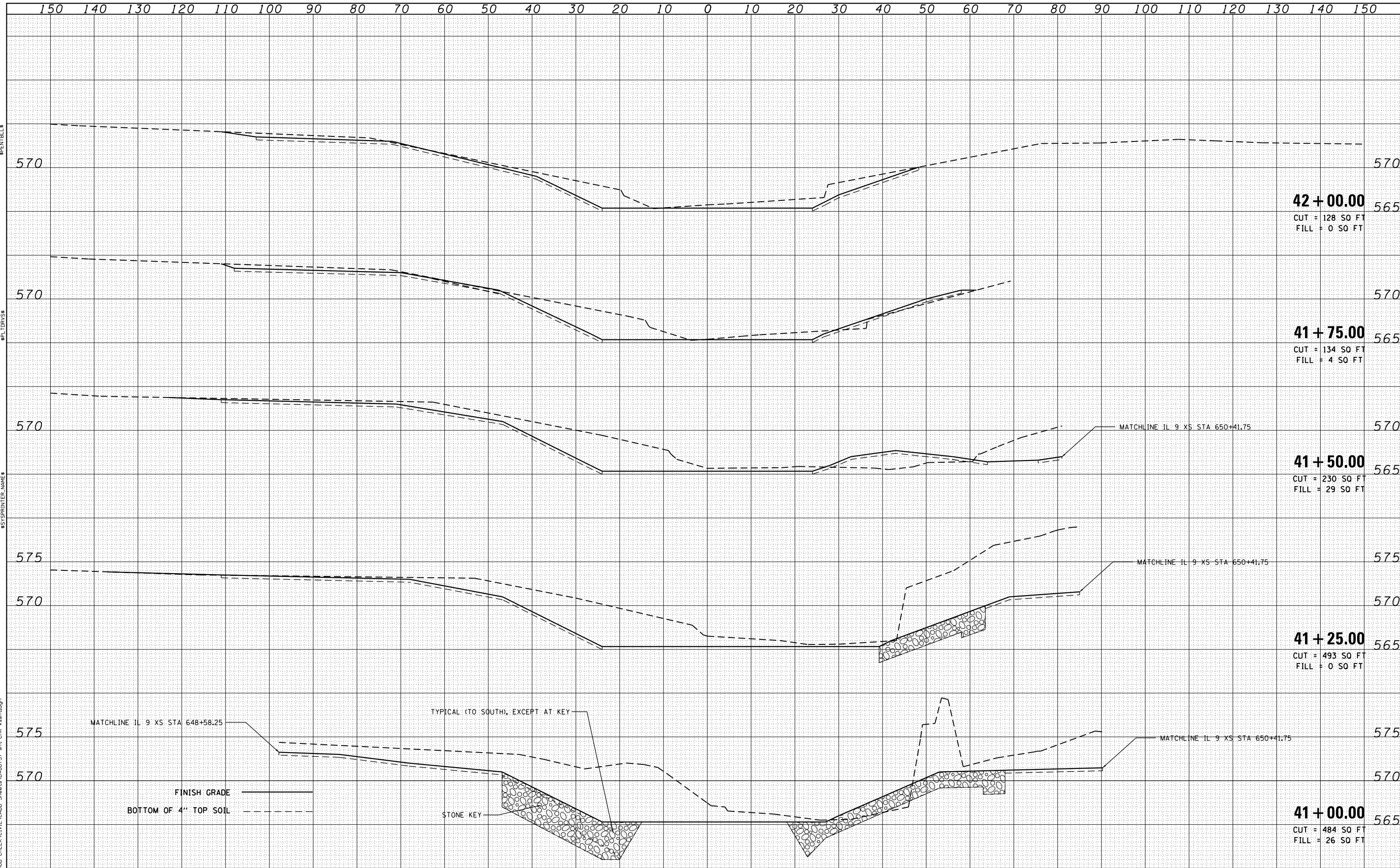
**MUD CREEK CROSS SECTIONS
IL 9 OVER MUD CREEK**

SCALE: 1"=10' SHEET NO. 2 OF 4 SHEETS STA. 40+00.00 TO STA. 40+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	78
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
SPRINTER	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SPRINTER	
AREAS CHECKED	



MAX: RT 9 OVER MUD CREEK CIVIL/CADD SHEET 3 OF 4

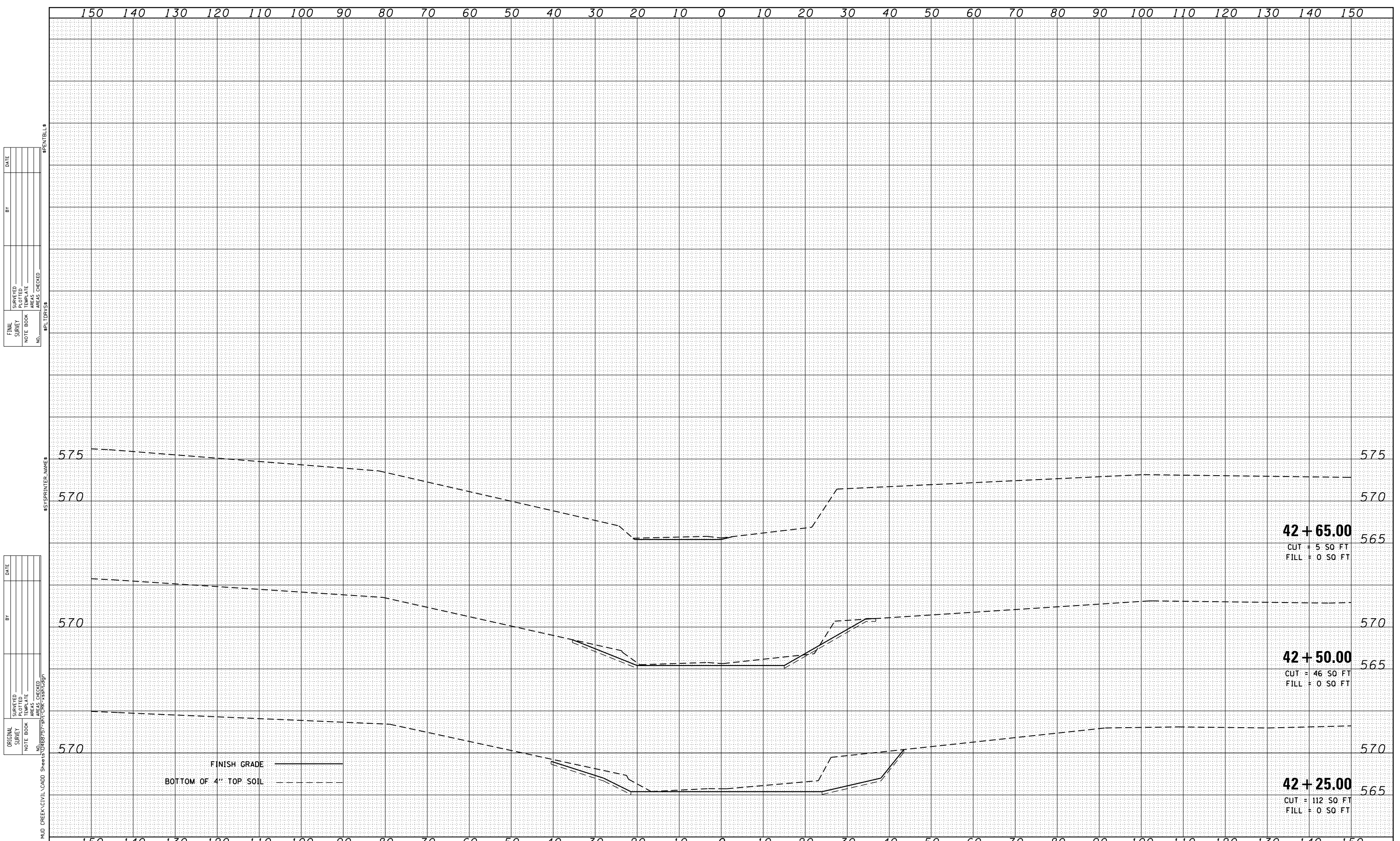


USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013 11:23:35 AM	DATE - 01/25/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'	SHEET NO. 3 OF 4 SHEETS	STA. 41+00.00 TO STA. 42+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	79
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				



BY	DATE

FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

MAIL RT 9 OVER MUD CREEK CIVIL/CADD SHEET NO. 68757 4/2013

USER NAME - TERRA	DESIGNED - CL	REVISED -
	DRAWN - KJC	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 1/23/2013 11:24:11 AM	DATE - 01/25/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MUD CREEK CROSS SECTIONS IL 9 OVER MUD CREEK	
SCALE: 1"=10'	SHEET NO. 4 OF 4 SHEETS
STA. 42+25.00	TO STA. 42+65.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
693	(119BR) BR	TAZEWELL	80	80
CONTRACT NO. 68757				
ILLINOIS FED. AID PROJECT				