

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	1
C.H. R51		ILLINOIS	CONTRACT NO.	89748

11-08-2019 LETTING ITEM 076

INDEX OF SHEETS

1. COVER
2. GENERAL NOTES AND LEGEND
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19. DETAILS
- 20.-23. STRUCTURE PLANS
- 24.-33. RETAINING WALL PLANS
- 34.-40. IDOT DISTRICT 4 STANDARD DETAILS
- 41.-44. CROSS SECTIONS

LIST OF STANDARDS

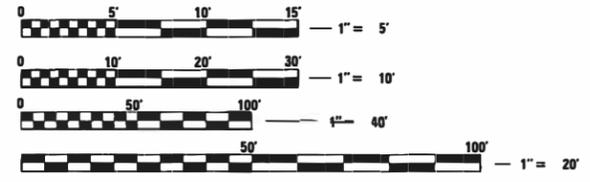
- | | |
|-------------|---|
| 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 515001-03 | NAME PLATES FOR BRIDGES |
| 606001-07 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 606201-04 | TYPE B GUTTER (INLET, OUTLET & ENTRANCE) |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631032-09 | TRAFFIC BARRIER TERMINAL TYPE 6A |
| 701311-03 | LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 782006 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| B.L.R. 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| B.L.R. 22-7 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |

IDOT DISTRICT 4 STANDARDS

- | | |
|-----------|--------------------------------------|
| 406101-D4 | BUTT JOINTS |
| 630101-D4 | GUARDRAIL EROSION CONTROL TREATMENTS |
| 780001-D4 | TYPICAL PAVEMENT MARKINGS |

PROJECT ENGINEER: BRYCE BECKSTROM, P.E.
PROJECT MANAGER: CINDY LOOS, P.E.

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



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.

CONTRACT NO. 89748
CAT NO. 035648-00D

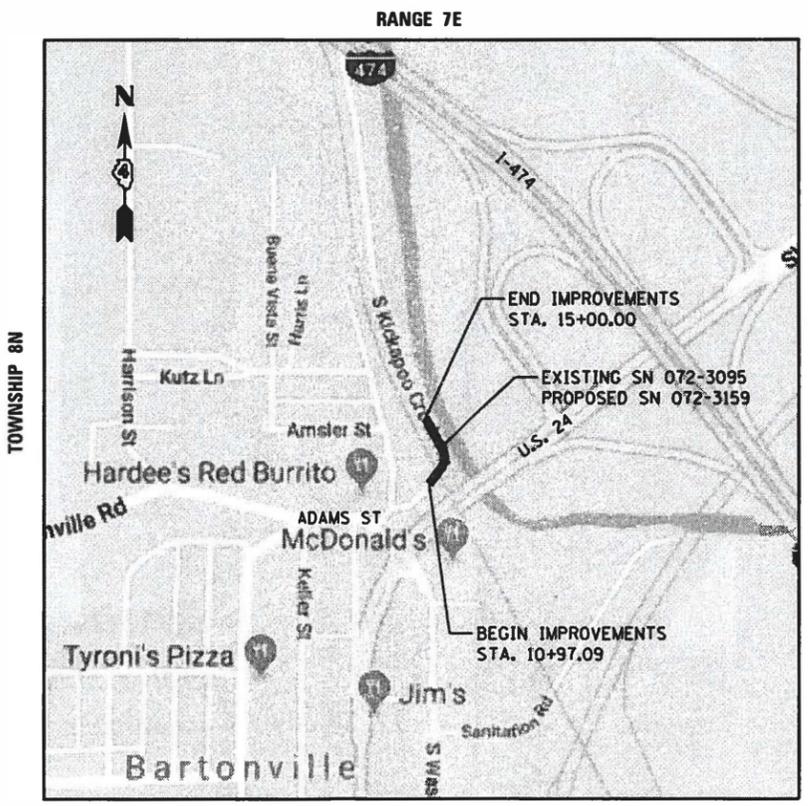
PLANS FOR PROPOSED BRIDGE REPLACEMENT

**KICKAPOO CREEK ROAD (FAU 6576)
 OVER TRIBUTARY TO KICKAPOO CREEK
 SECTION 16-00006-00-BR
 PEORIA COUNTY
 JOB C-94-093-18
 PROJECT CW95(678)
 STP - BRIDGE**



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

DIVISION OF HIGHWAYS
 Dept. of Transportation
 AUG 08 2019
 Region 3/District 4
 RECEIVED
 Local Roads



NOT TO SCALE
 GROSS LENGTH = 402.91 FT. = 0.076 MILE
 NET LENGTH = 402.91 FT. = 0.076 MILE

ADT (2017) = 1,750, ADT (2040) = 1,750, SU=2%, MU=1%
 HIGHWAY CLASS: III
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
 DESIGN SPEED: 40 MPH
 POSTED SPEED LIMIT: 40 MPH
 DESIGN POLICY: BLR MANUAL - 3R POLICY

BRYCE A. BECKSTROM
 LICENSED PROFESSIONAL ENGINEER
 STATE OF ILLINOIS
 062-062864
 DATE SIGNED: 8/8/19
 LIC. EXP. DATE: 11/30/2019

DATE: 8/8/19
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 7625 N. University St., Suite 200
 Peoria, Illinois 61614
 Offices Nationwide

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APPROVED July 31 20 19
Amy Brenda Nelson
 PEORIA COUNTY ENGINEER

PASSED 08-26 20 19
Tom Saxia
 DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review August 26 20 19
Paul C. Dando
 REGION THREE ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 80% FEDERAL 20% LOCAL	RURAL-BRIDGE 80% FEDERAL 20% LOCAL	RURAL-RETAINING WALL 80% FEDERAL 20% LOCAL
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	71	71		
20200100	EARTH EXCAVATION	CU YD	710	710		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	384	384		
25100630	EROSION CONTROL BLANKET	SQ YD	139	139		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	246	246		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	8	8		
28000305	TEMPORARY DITCH CHECKS	FOOT	10	10		
28000400	PERIMETER EROSION BARRIER	FOOT	238	238		
28100207	STONE RIPRAP, CLASS A4	TON	30	30		
28100209	STONE RIPRAP, CLASS A5	TON	57	57		
28200200	FILTER FABRIC	SQ YD	46	46		
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	902	902		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,772	2,772		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	303	303		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	58	58		

* SPECIALTY ITEMS

LAYOUT	5/17/19
DRAWN	5/14/19
REVIEWED	8/8/19
FILED	8/8/19

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PLLOT SCALE = 2.0000' / 1in.	PLLOT DATE = 8/7/2019	DRAWN - RLA	REVISED -			6576	16-00006-00-BR	PEORIA	44	3	
CHECKED - MGD	DATE - 8/8/19	CHECKED - MGD	REVISED -			CONTRACT NO. 89748					
REVIEWED -		REVIEWED -				ILLINOIS FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				0004 ROADWAY 80% FEDERAL 20% LOCAL	0010 RURAL-BRIDGE 80% FEDERAL 20% LOCAL	0044 RURAL-RETAINING WALL 80% FEDERAL 20% LOCAL
40603100	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0L, N30	TON	232	232		
40604090	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N30	TON	122	122		
42001300	PROTECTIVE COAT	SQ YD	112	112		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	26	26		
44000100	PAVEMENT REMOVAL	SQ YD	963	963		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	30	30		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	298	298		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	196	196		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1			1
50200300	COFFERDAM EXCAVATION	CU YD	2,025			2,025
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1			1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1			1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	63,800			63,800

* SPECIALTY ITEMS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 SUMMARY OF QUANTITIES**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	4
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 80% FEDERAL 20% LOCAL	RURAL-BRIDGE 80% FEDERAL 20% LOCAL	RURAL-RETAINING WALL 80% FEDERAL 20% LOCAL
* 50901050	STEEL RAILING, TYPE SM	FOOT	44		44	
51201900	FURNISHING STEEL PILES HP14X89	FOOT	767			767
51202305	DRIVING PILES	FOOT	767			767
51203900	TEST PILE STEEL HP14X89	EACH	1			1
51500100	NAME PLATES	EACH	1		1	
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	526.6			526.6
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	257			257
60602800	CONCRETE GUTTER, TYPE B	FOOT	96			96
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	372	372		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	162.5	162.5		
* 63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	187.5	187.5		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	558	558		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	725	725		

* SPECIALTY ITEMS

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PLOT DATE =	8/7/2019

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

KICKAPOO CREEK ROAD SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	5
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				0004 ROADWAY 80% FEDERAL 20% LOCAL	0010 RURAL-BRIDGE 80% FEDERAL 20% LOCAL	0044 RURAL-RETAINING WALL 80% FEDERAL 20% LOCAL
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	8	8		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8	8		
67100100	MOBILIZATION	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	66.5	66.5		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	252.5	252.5		
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,746	1,746		
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	18	18		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
X0900088	THREE-SIDED PRECAST CONCRETE STRUCTURES (SPECIAL) 20 FT	FOOT	34.25		34.25	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

* SPECIALTY ITEMS

LAYOUT	BAB	5/17/20
DRAWN	RLA	5/14/20
REVIEWED	MCD	8/8/19

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 SUMMARY OF QUANTITIES**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	6
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				0004 ROADWAY 80% FEDERAL 20% LOCAL	0010 RURAL-BRIDGE 80% FEDERAL 20% LOCAL	0044 RURAL-RETAINING WALL 80% FEDERAL 20% LOCAL
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1,746	1,746		
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	18	18		
XX006343	SEEDING (COMPLETE)	SQ YD	384	384		
XX006529	CONCRETE CURB AND GUTTER END OUTLET SPECIAL	EACH	2	2		
XX008018	TEMPORARY SOIL RETENTION SYSTEM	L SUM	1		1	
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	82	82		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	150		150	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
▲ Z0076600	TRAINEES	HOUR	1,000			
▲ Z0076604	TRAINEES TPG	HOUR	1,000			

▲ 0042
 * Specialty Items

LAYOUT	BAB	5/11/21
DRAWN	RLA	5/14/21
REVIEWED	MCD	8/8/19

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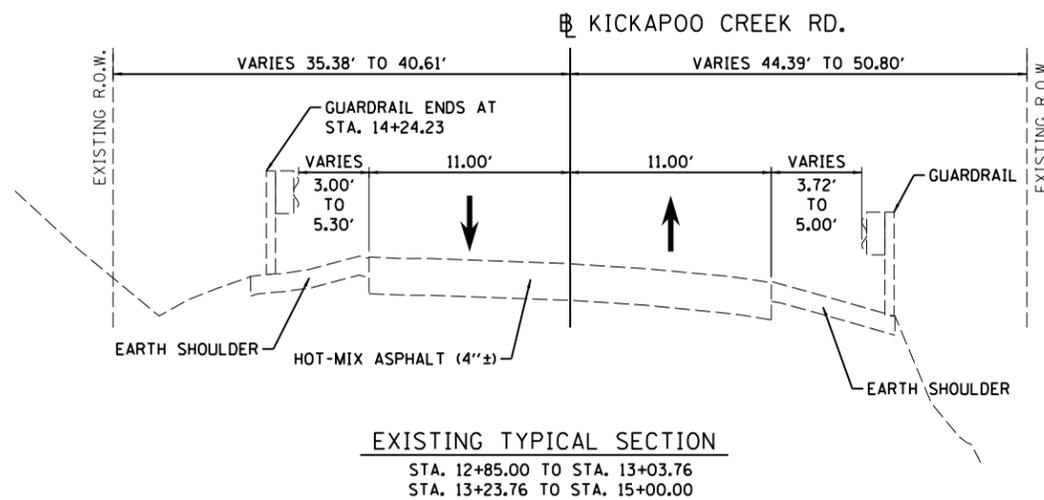
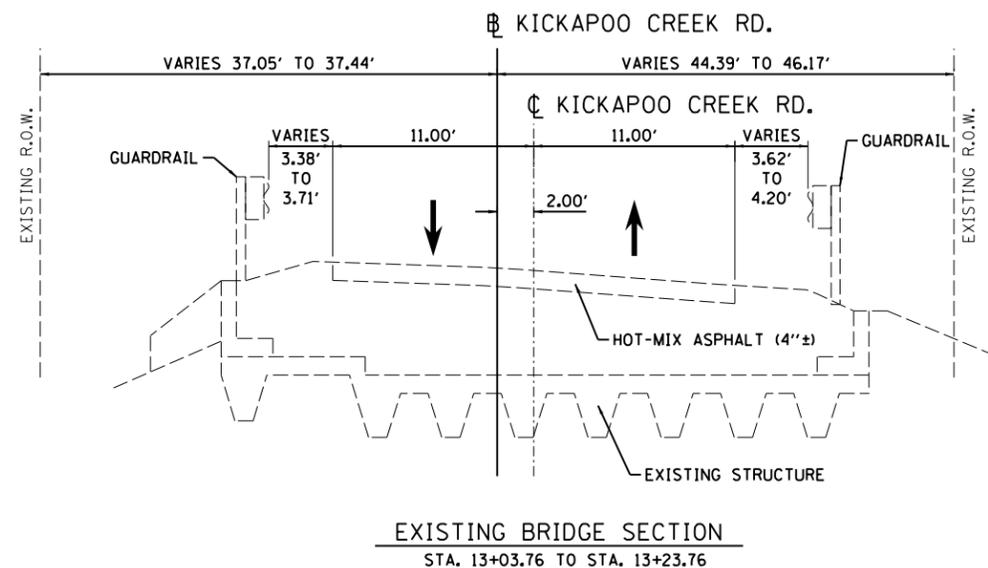
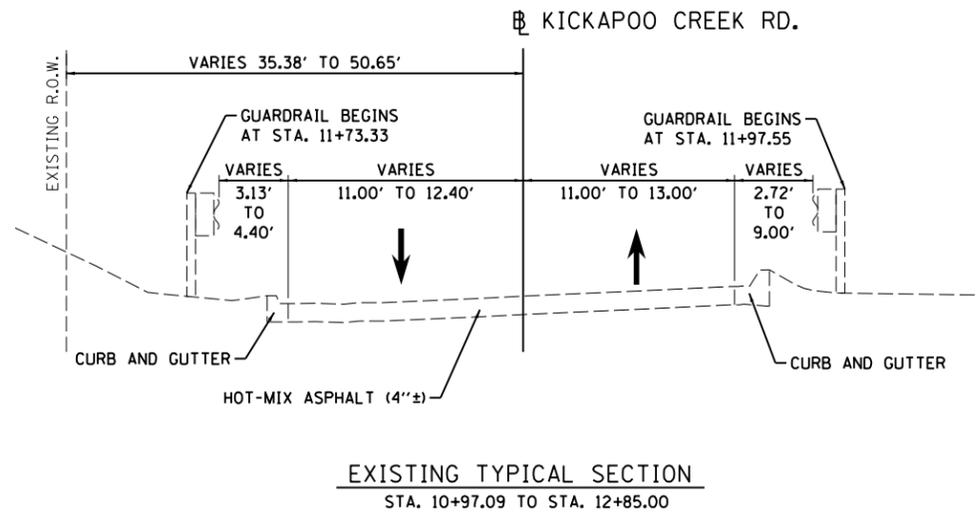
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 SUMMARY OF QUANTITIES**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	7
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



LAYOUT	BAB	5/17/19
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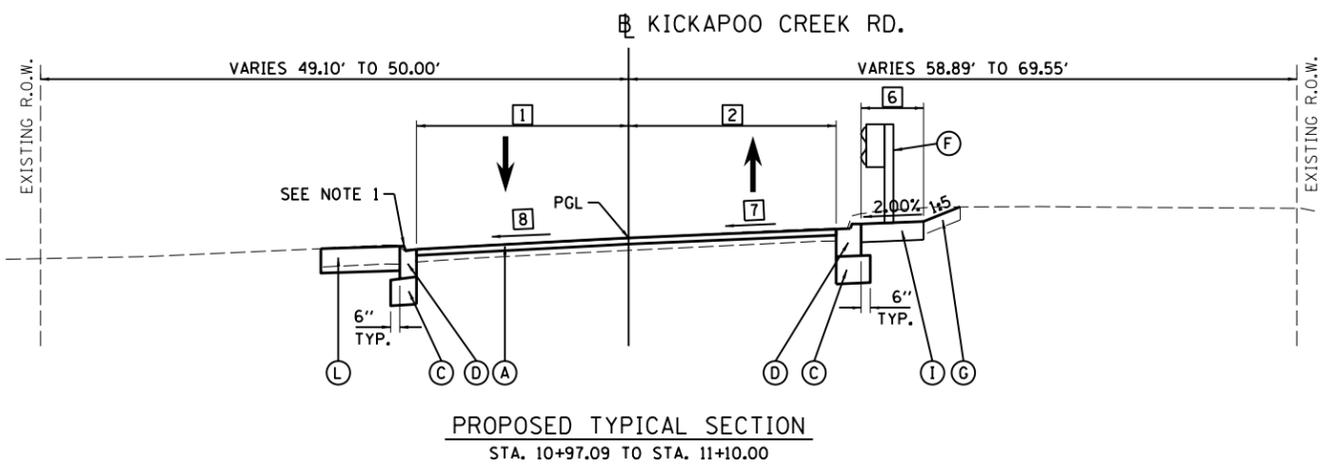
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PLOT DATE =	8/7/2019

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 EXISTING TYPICAL SECTIONS**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89748	

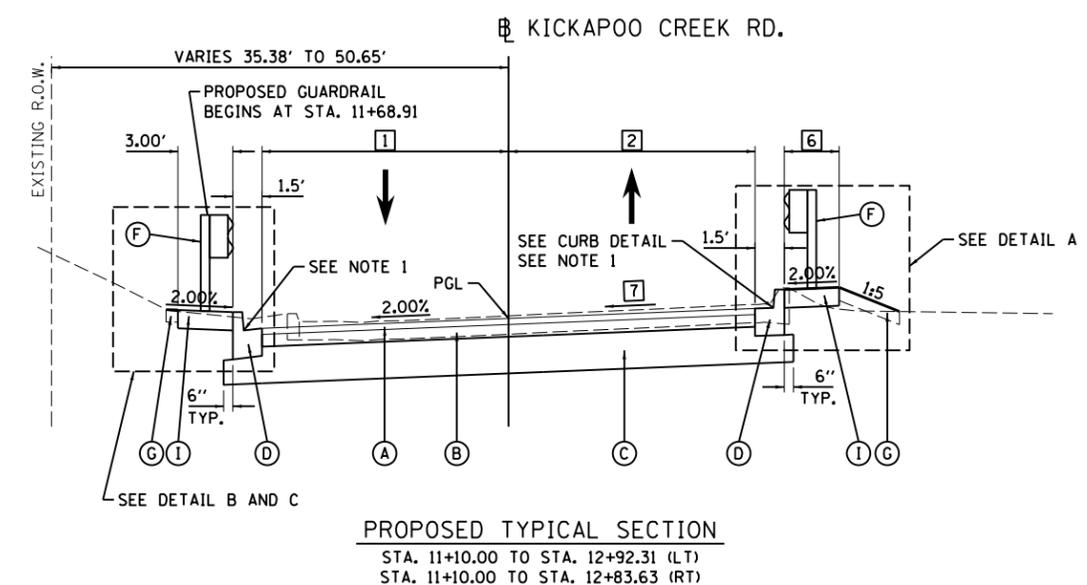


PROPOSED TYPICAL SECTION
 STA. 10+97.09 TO STA. 11+10.00

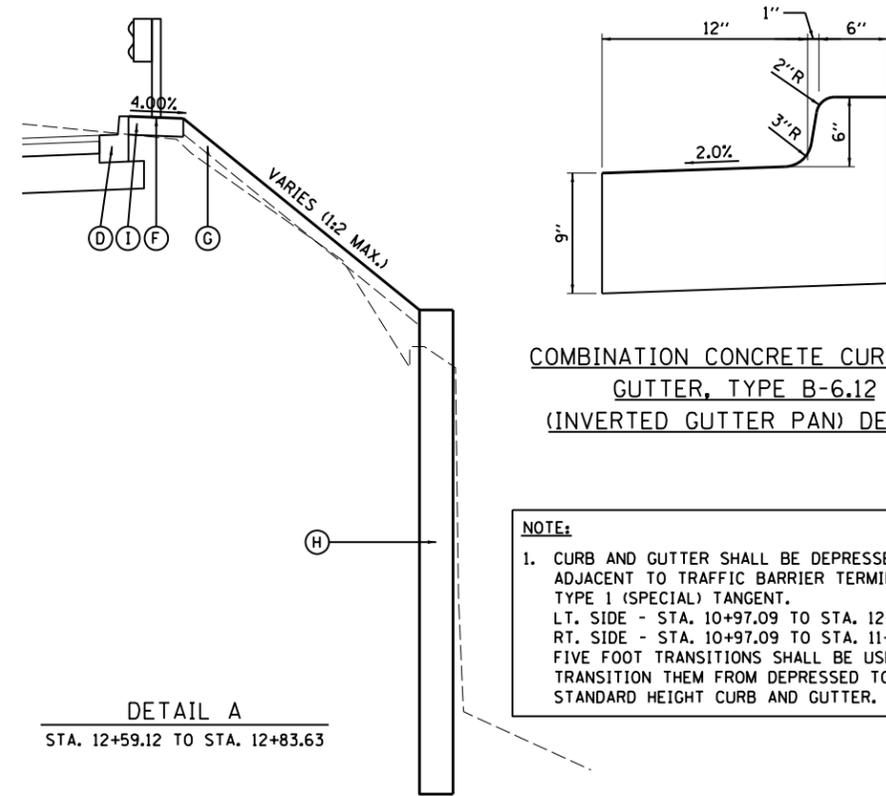
HMA MIXTURE REQUIREMENTS		
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:		
LOCATION:	KICKAPOO CREEK ROAD	
MIXTURE USE(S):	HMA SURFACE COURSE HMA SHOULDER (SURFACE LIFT)	HMA BINDER COURSE HMA SHOULDER (LOWER LIFT)
PG:	PG 64-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N-30	4.0% @ N-30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5L	IL 19.0L
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/OA	QC/OA
SUBLOT SIZE:	N/A	N/A

STRUCTURAL DESIGN TRAFFIC:	YEAR 2030	ADT 2,461
PV = 97.0%	SU = 2.0%	MU = 1.0%
ROAD/STREET CLASSIFICATION:	CLASS II	
PERCENTAGE OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE	P = 50% S = 50% M = 50%	
TRAFFIC FACTOR:	ACTUAL TF = 0.155	AC TYPE = N/A
	MINIMUM TF = N/A	
PG GRADE:	Binder = 64-22	Surface = 64-28
SUBGRADE SUPPORT RATING:	SSR = POOR (STA. 10+97.09 TO 15+00.00)	
	SSR = (STA. TO)	

- LEGEND**
- (A) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N30, 2"
 - (B) HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30, 4"
 - (C) SUBBASE GRANULAR MATERIAL, TYPE A, 12"
 - (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - (E) HOT-MIX ASPHALT SHOULDERS, 6"
 - (F) STEEL PLATE BEAM GUARDRAIL (SEE PLAN SHEETS FOR TYPE)
 - (G) TOPSOIL FURNISH AND PLACE, 4"
 - (H) RETAINING WALL (SEE RETAINING WALL PLANS)
 - (I) GUARDRAIL AGGREGATE EROSION CONTROL, 6"
 - (J) TYPE B GUTTER
 - (K) STEEL RAILING, TYPE SM
 - (L) PCC DRIVEWAY PAVEMENT, 8"



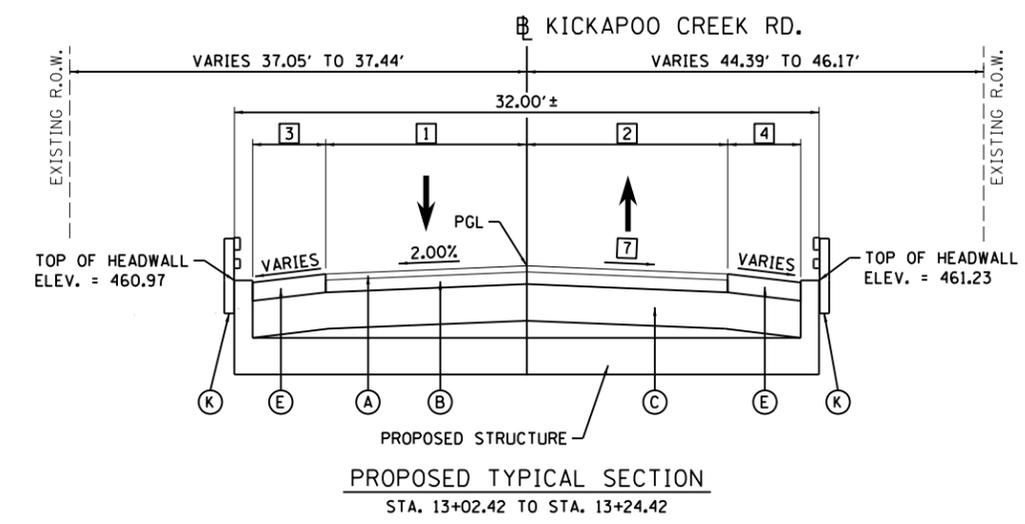
PROPOSED TYPICAL SECTION
 STA. 11+10.00 TO STA. 12+92.31 (LT)
 STA. 11+10.00 TO STA. 12+83.63 (RT)



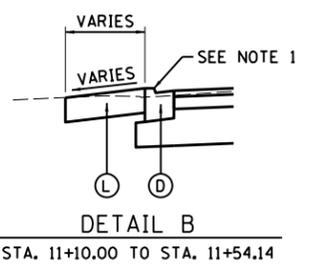
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (INVERTED GUTTER PAN) DETAIL

NOTE:
 1. CURB AND GUTTER SHALL BE DEPRESSED WHEN ADJACENT TO TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT.
 LT. SIDE - STA. 10+97.09 TO STA. 12+24.85
 RT. SIDE - STA. 10+97.09 TO STA. 11+50.09
 FIVE FOOT TRANSITIONS SHALL BE USED TO TRANSITION THEM FROM DEPRESSED TO STANDARD HEIGHT CURB AND GUTTER.

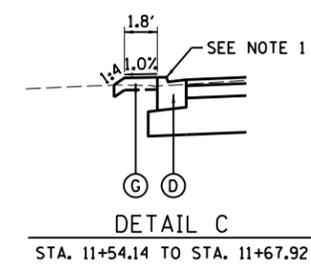
DETAIL A
 STA. 12+59.12 TO STA. 12+83.63



PROPOSED TYPICAL SECTION
 STA. 13+02.42 TO STA. 13+24.42



DETAIL B
 STA. 11+10.00 TO STA. 11+54.14



DETAIL C
 STA. 11+54.14 TO STA. 11+67.92

- 1 PAVEMENT WIDTH - LEFT
 STA. 10+97.09 TO STA. 11+10.00 = TRANSITIONS FROM 11.66' TO 11.00'
 STA. 11+10.00 TO STA. 11+71.92 = 11.00'
 STA. 11+71.92 TO STA. 13+05.84 = VARIES FROM 11.00' TO 16.02'
 STA. 13+05.84 TO STA. 14+90.00 = 11.00'
 STA. 14+90.00 TO STA. 15+00.00 = TRANSITIONS FROM 11.00' TO 10.54'
- 2 PAVEMENT WIDTH - RIGHT
 STA. 10+97.09 TO STA. 11+10.00 = TRANSITIONS FROM 11.37' TO 11.00'
 STA. 11+10.00 TO STA. 12+06.25 = 11.00'
 STA. 12+06.25 TO STA. 12+83.36 = VARIES FROM 11.00' TO 20.24'
 STA. 12+83.36 TO STA. 13+25.00 = TRANSITIONS FROM 16.35' TO 11.00'
 STA. 13+25.00 TO STA. 14+90.00 = 11.00'
 STA. 14+90.00 TO STA. 15+00.00 = TRANSITIONS FROM 11.00' TO 11.79'
- 3 SHOULDER WIDTH - LEFT
 STA. 12+92.31 TO STA. 13+05.84 = TRANSITIONS FROM 2.87' TO 4.00'
 STA. 13+05.84 TO STA. 15+00.00 = 4.00'
- 4 SHOULDER WIDTH - RIGHT
 STA. 12+83.63 TO STA. 13+25.92 = TRANSITIONS FROM 1.90' TO 6.25'
 STA. 13+25.92 TO STA. 13+82.17 = TRANSITIONS FROM 6.25' TO 4.00'
 STA. 13+82.17 TO STA. 15+00.00 = 4.00'
- 5 GUARDRAIL AGGREGATE EROSION CONTROL WIDTH - LEFT
 STA. 11+67.92 TO STA. 12+85.23 = 3.00'
 STA. 12+85.23 TO STA. 12+89.23 = TRANSITIONS FROM 3.00' TO 3.10'
 STA. 13+36.42 TO STA. 13+40.00 = TRANSITIONS FROM 3.49' TO 4.00'
 STA. 13+40.00 TO STA. 14+74.50 = 4.00'
 STA. 14+74.50 TO STA. 15+00.00 = TRANSITIONS FROM 4.00' TO 0.00'
- 6 GUARDRAIL AGGREGATE EROSION CONTROL WIDTH - RIGHT
 STA. 10+97.09 TO STA. 11+25.00 = 4.00'
 STA. 11+25.00 TO STA. 11+50.09 = TRANSITIONS FROM 4.00' TO 2.80'
 STA. 11+50.09 TO STA. 12+78.59 = 2.80'
 STA. 12+78.59 TO STA. 13+01.20 = TRANSITIONS FROM 2.80' TO 3.44'
 STA. 13+25.65 TO STA. 13+82.23 = TRANSITIONS FROM 3.40' TO 2.80'
 STA. 13+82.23 TO STA. 14+89.57 = 2.80'
 STA. 14+89.57 TO STA. 15+00.00 = TRANSITIONS FROM 2.80' TO 0.00'
- 7 PAVEMENT SLOPE - RIGHT
 STA. 10+97.09 TO STA. 11+10.00 = TRANSITIONS FROM 2.11% TO 2.00%
 STA. 11+10.00 TO STA. 12+70.00 = 2.00%
 STA. 12+70.00 TO STA. 13+50.00 = TRANSITIONS FROM 2.00% TO -2.00%
 STA. 13+50.00 TO STA. 14+55.00 = -2.00%
 STA. 14+55.00 TO STA. 15+00.00 = TRANSITIONS FROM -2.00% TO -4.10%
- 8 PAVEMENT SLOPE - LEFT
 STA. 10+97.09 TO STA. 11+10.00 = TRANSITIONS FROM -2.74% TO -2.00%
 STA. 11+10.00 TO STA. 14+20.00 = -2.00%
 STA. 14+20.00 TO STA. 15+00.00 = TRANSITIONS FROM -2.00% TO 2.00%

LAYOUT	5/17/20
DRAWN	RLA
REVIEWED	8/14/20
MD	8/18/19

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PLOT DATE = 8/7/2019		DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KICKAPOO CREEK ROAD
PROPOSED TYPICAL SECTIONS

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	9
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

EARTHWORK SUMMARY					
LOCATION		20200100	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		EARTH EXCAVATION			
BEGIN STATION	END STATION	CU YD	CU YD	CU YD	CU YD
KICKAPOO CREEK ROAD					
10+97.09	15+00.00	710	533	125	408
TOTAL		710	533	125	408

COMBINATION CONCRETE CURB & GUTTER SCHEDULE				
LOCATION		42001300	60603800	XX006529
		PROTECTIVE COAT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	CONCRETE CURB AND GUTTER END OUTLET SPECIAL
BEGIN STATION	END STATION	SQ YD	FOOT	EACH
KICKAPOO CREEK ROAD				
10+97.09	15+00.00	86	372	2
TOTAL		86	372	2

SIGN SCHEDULE				
LOCATION			72000100	72800100
			SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
STATION	OFFSET	SIGN	SQ FT	FOOT
KICKAPOO CREEK ROAD				
11+05.00	15.67 RT	W1-1L	6.25	17.5
		W13-1P	2.25	
11+16.00	15.67 RT	EXIST		17.5
		EXIST		
11+50.00	15.58' RT	EXIST		16.0
11+75.00	20.00' LT	W14-3	4.00	16.0
12+06.00	15.40' RT	W1-1aL	6.25	15.5
12+13.00	15.97' RT	W1-8R	3.00	15.0
12+37.00	21.96' RT	W1-6R	8.00	15.0
12+44.00	23.54' RT	W1-8R	3.00	15.0
		W1-8L	3.00	
12+54.00	24.52' RT	W1-6L	8.00	15.0
12+56.00	20.08' LT	EXIST		17.5
		EXIST		
12+75.22	22.92' RT	W1-8L	3.00	15.0
12+85.16	17.70' LT	W1-1aR	6.25	15.5
12+89.00	20.62' RT	EXIST		14.5
13+85.00	19.00' LT	EXIST		14.5
14+00.00	19.00' LT	W1-1R	6.25	17.5
		W13-1P	2.25	
14+20.00	17.13' RT	R2-1	5.00	15.5
TOTAL			66.5	252.5

PAVEMENT SCHEDULE									
LOCATION		31100100	40600275	40600290	40603100	40604090	42001300	42300400	48203021
		SUBBASE GRANULAR MATERIAL, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N30	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	HOT-MIX ASPHALT SHOULDERS, 6"
BEGIN STATION	END STATION	TON	POUND	POUND	TON	TON	SQ YD	SQ YD	SQ YD
KICKAPOO CREEK ROAD									
10+97.09	15+00.00	902	2,772	303	232	122	26	26	196
FROM CURB SCHEDULE							86		
TOTAL		902	2,772	303	232	122	112	26	196

TOPSOIL, SEEDING, & FERTILIZER NUTRIENTS							
LOCATION		21101615	25100630	25100635	28000250	28000400	XX006343
		TOPSOIL FURNISH AND PLACE, 4"	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	SEEDING (COMPLETE)
BEGIN STATION	END STATION	SQ YD	SQ YD	SQ YD	POUND	FOOT	SQ YD
KICKAPOO CREEK ROAD							
10+97.09	15+00.00	384	139	246	8	238	384
TOTAL		384	139	246	8	238	384

TEMPORARY DITCH CHECK SCHEDULE		
LOCATION		28000305
BEGIN STATION	END STATION	TEMPORARY DITCH CHECKS
KICKAPOO CREEK ROAD		
15+00.00	22.53' LT	10
TOTAL		10

RIPRAP SCHEDULE				
LOCATION		28100207	28100209	28200200
		STONE RIPRAP, CLASS A4	STONE RIPRAP, CLASS A5	FILTER FABRIC
BEGIN STATION	END STATION	TON	TON	SQ YD
KICKAPOO CREEK ROAD				
12+97.00	21.50' LT	15		10
13+30.00	21.50' LT	15		10
14+26.00	40.00' RT		57	26
TOTAL		30	57	46

PAVEMENT MARKING SCHEDULE					
LOCATION		78009004	78009012	X7830070	X7830078
		MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 13"
BEGIN STATION	END STATION	FOOT	FOOT	FOOT	FOOT
KICKAPOO CREEK ROAD					
10+97.09	15+00.00	1,746	18	1,746	18
TOTAL		1,746	18	1,746	18

TREE REMOVAL SCHEDULE		
LOCATION		20100210
STATION	OFFSET	TREE REMOVAL (OVER 15 UNITS DIAMETER)
FRONT STREET		
12+55.80	40.75' RT	32
12+63.81	36.77' RT	17
12+72.18	34.18' RT	22
TOTAL		71

GUARDRAIL SCHEDULE									
LOCATION		63000001	63000005	63100087	63100167	63200310	72501000	78200005	Z0001002
		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE B	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
STATION	OFFSET	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	TON
KICKAPOO CREEK ROAD									
10+97.09	15+00.00	162.5	187.5	4	3	558	3	8	82
TOTAL		162.5	187.5	4	3	558	3	8	82

PAVEMENT REMOVAL SCHEDULE					
LOCATION		40600982	44000100	44000200	44000500
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL
BEGIN STATION	END STATION	SQ YD	SQ YD	SQ YD	FOOT
KICKAPOO CREEK ROAD					
10+97.09	15+00.00	58	963	30	298
TOTAL		58	963	30	298

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19

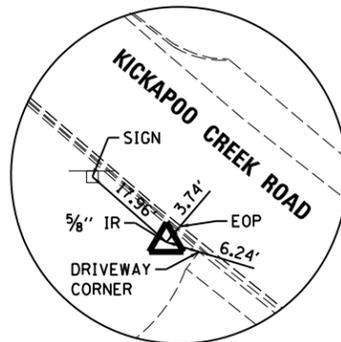
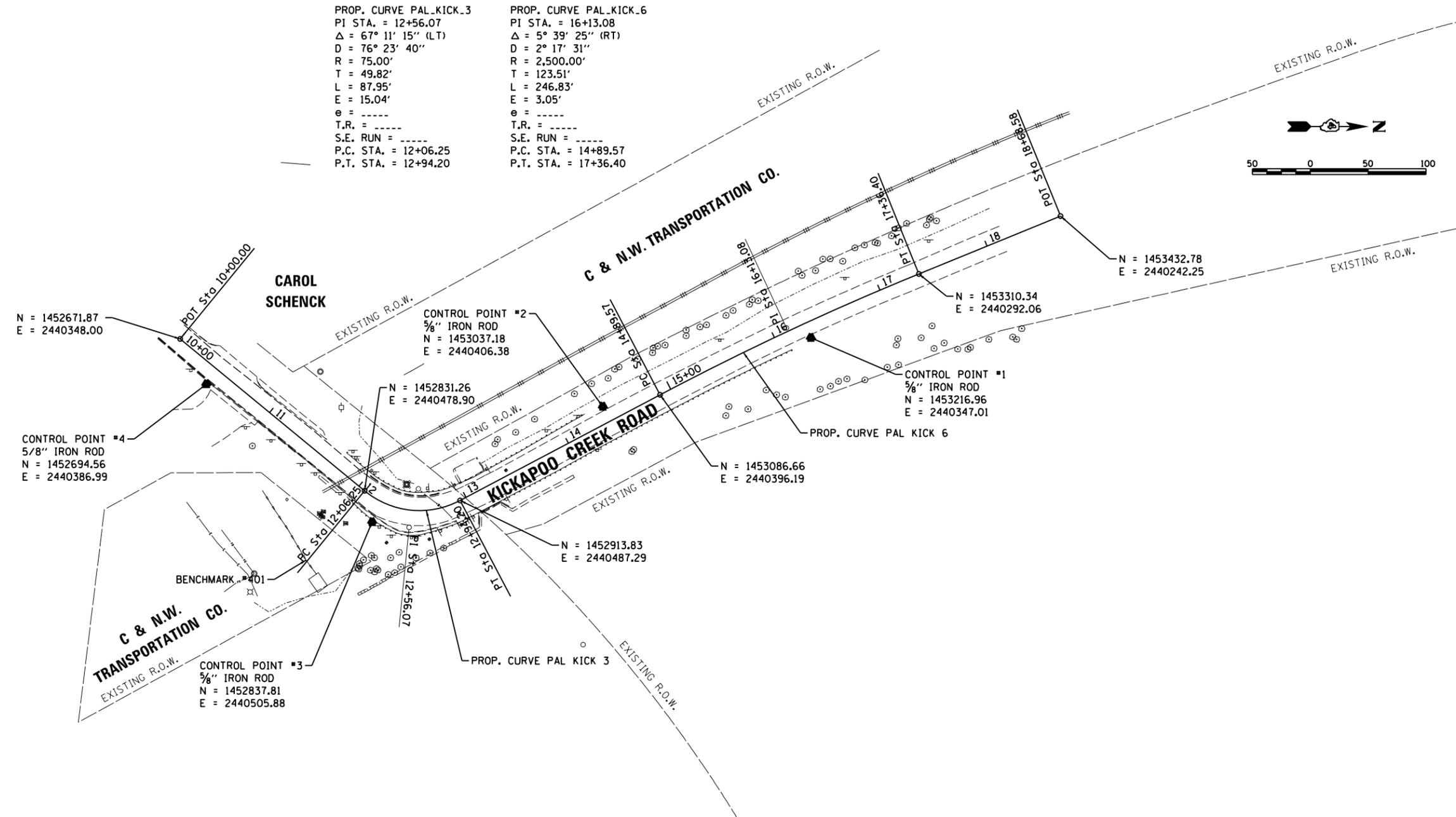
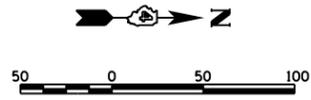
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

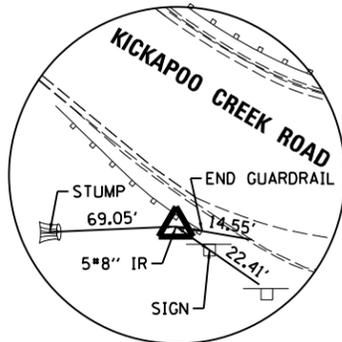
KICKAPOO CREEK ROAD SCHEDULE OF QUANTITIES		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N/A	SHEET OF SHEETS	6576	16-00006-00-BR	PEORIA	44	11
STA. TO STA.		CONTRACT NO. 89748		ILLINOIS FED. AID PROJECT		

PROP. CURVE PAL_KICK_3
 PI STA. = 12+56.07
 Δ = 67° 11' 15" (LT)
 D = 76° 23' 40"
 R = 75.00'
 T = 49.82'
 L = 87.95'
 E = 15.04'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 12+06.25
 P.T. STA. = 12+94.20

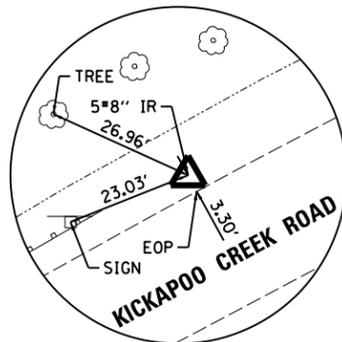
PROP. CURVE PAL_KICK_6
 PI STA. = 16+13.08
 Δ = 5° 39' 25" (RT)
 D = 2° 17' 31"
 R = 2,500.00'
 T = 123.51'
 L = 246.83'
 E = 3.05'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 14+89.57
 P.T. STA. = 17+36.40



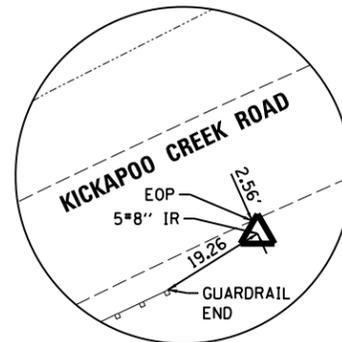
CONTROL POINT #4
 5/8" IRON ROD



CONTROL POINT #3
 5/8" IRON ROD



CONTROL POINT #2
 5/8" IRON ROD



CONTROL POINT #1
 5/8" IRON ROD

BENCHMARKS
 BENCHMARK #401 CHISELED "X" ON WEST SIDE OF TOP CONCRETE "PSD" MANHOLE RISER. EAST OF RAILROAD BRIDGE AND SOUTH OF KICKAPOO CREEK ROAD. ELEV. = 461.19

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19

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		DATE - 8/8/19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 ALIGNMENTS, BENCHMARKS AND TIES**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	12
CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	

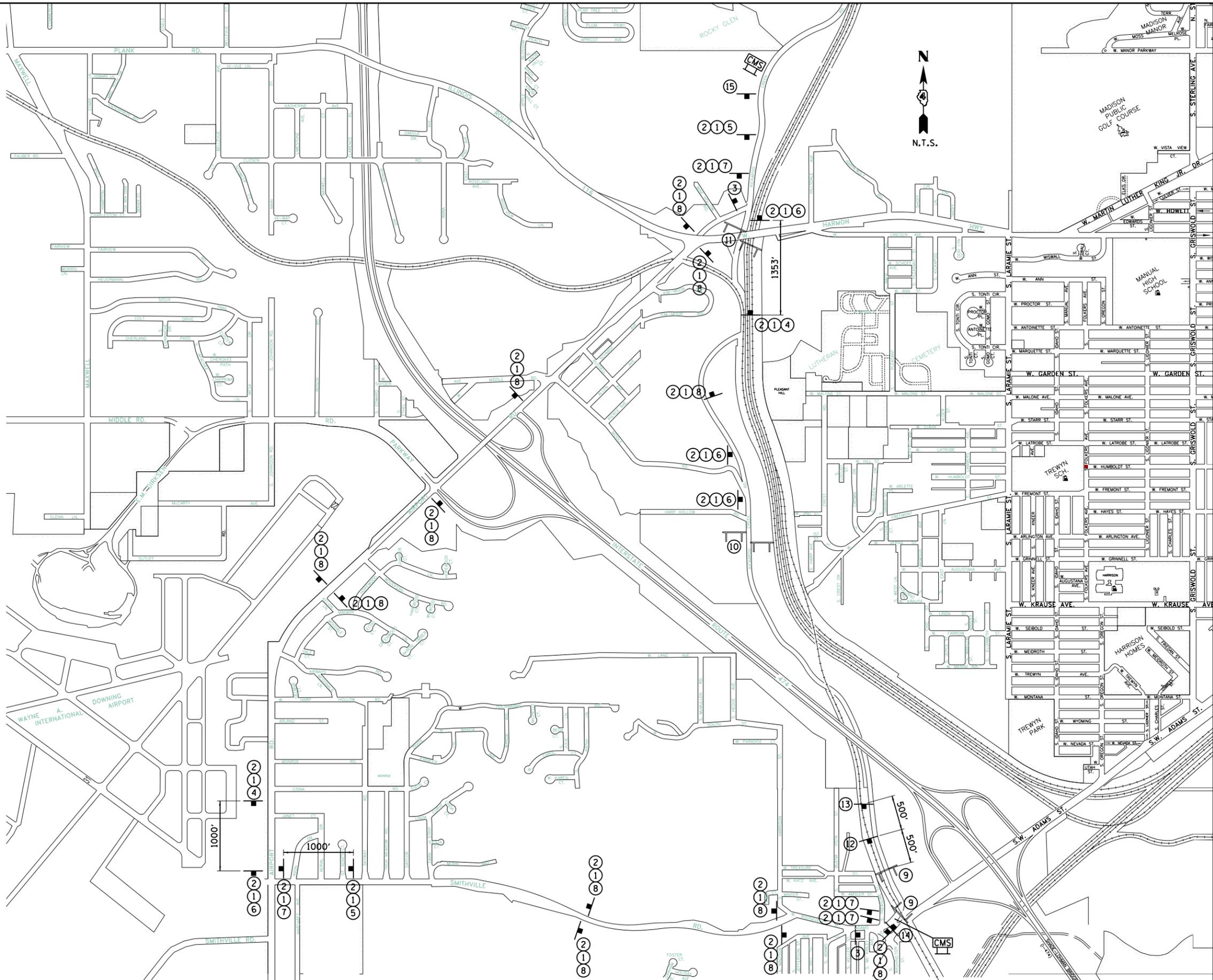
- ① **Kickapoo Creek Rd**
- ② **DETOUR** M4-8 24"x18"
- ③ **END DETOUR** M4-8a 24"x18"
- ④ **←** M5-1L 21"x15"
- ⑤ **→** M5-1R 21"x15"
- ⑥ **←** M6-1L 21"x15"
- ⑦ **→** M6-1R 21"x15"
- ⑧ **↑** M6-3 21"x15"
- ⑨ **ROAD CLOSED** R11-2 48"x30"
- ⑩ **BRIDGE OUT 1 MILE AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"
- ⑪ **BRIDGE OUT 2 MILES AHEAD LOCAL TRAFFIC ONLY** R11-3b 60"x30"
- ⑫ **ROAD CLOSED 500 FT** W20-3 36"x36"
- ⑬ **ROAD CLOSED 1000 FT** W20-3 36"x36"
- ⑭ **ROAD CLOSED AHEAD** W20-3 36"x36"
- ⑮ **DETOUR AHEAD** W20-3 36"x36"

DETOUR PLAN LEGEND

- POST MOUNTED SIGN LOCATION
- TYPE III BARRICADE
- CHANGEABLE MESSAGE SIGN

NOTES:

- CHANGEABLE MESSAGE SIGNS SHALL BE SETUP FOR SEVEN DAYS IN ADVANCE OF THE KICKAPOO CREEK ROAD CLOSURE TO WARN TRAFFIC OF THE PENDING CLOSURE. MESSAGE AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.



LAYOUT	BAB	5/17/20
DRAWN	RLA	5/14/20
REVIEWED	MGD	8/8/19
DATE	8/8/19	

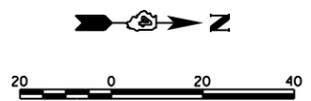
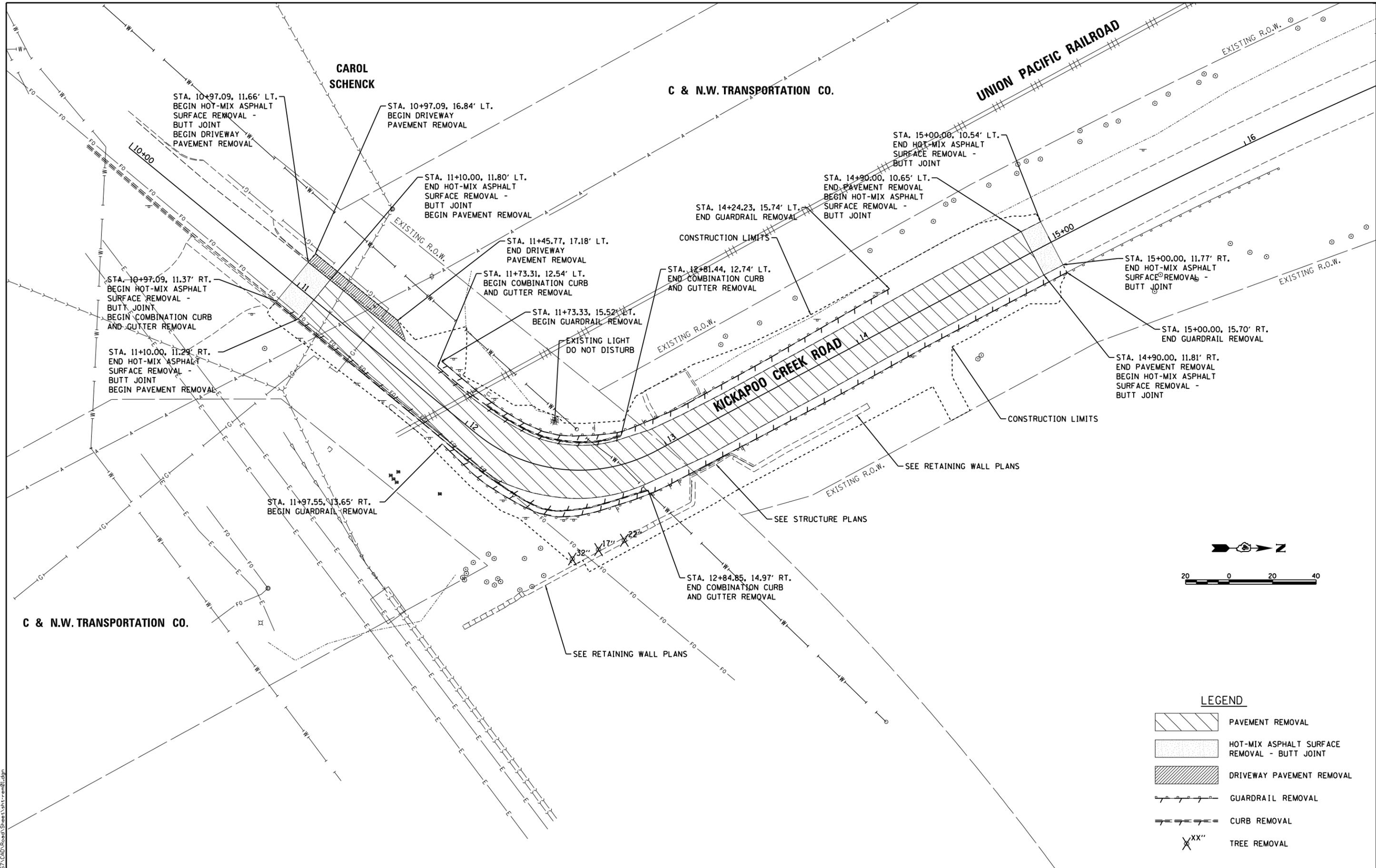
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		DATE - 8/7/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 DETOUR PLAN**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	13
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- DRIVEWAY PAVEMENT REMOVAL
- GUARDRAIL REMOVAL
- CURB REMOVAL
- TREE REMOVAL

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19
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DATE	- 8/8/19	
REVISIONS	-	

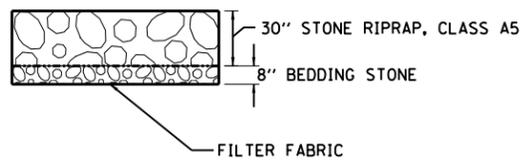
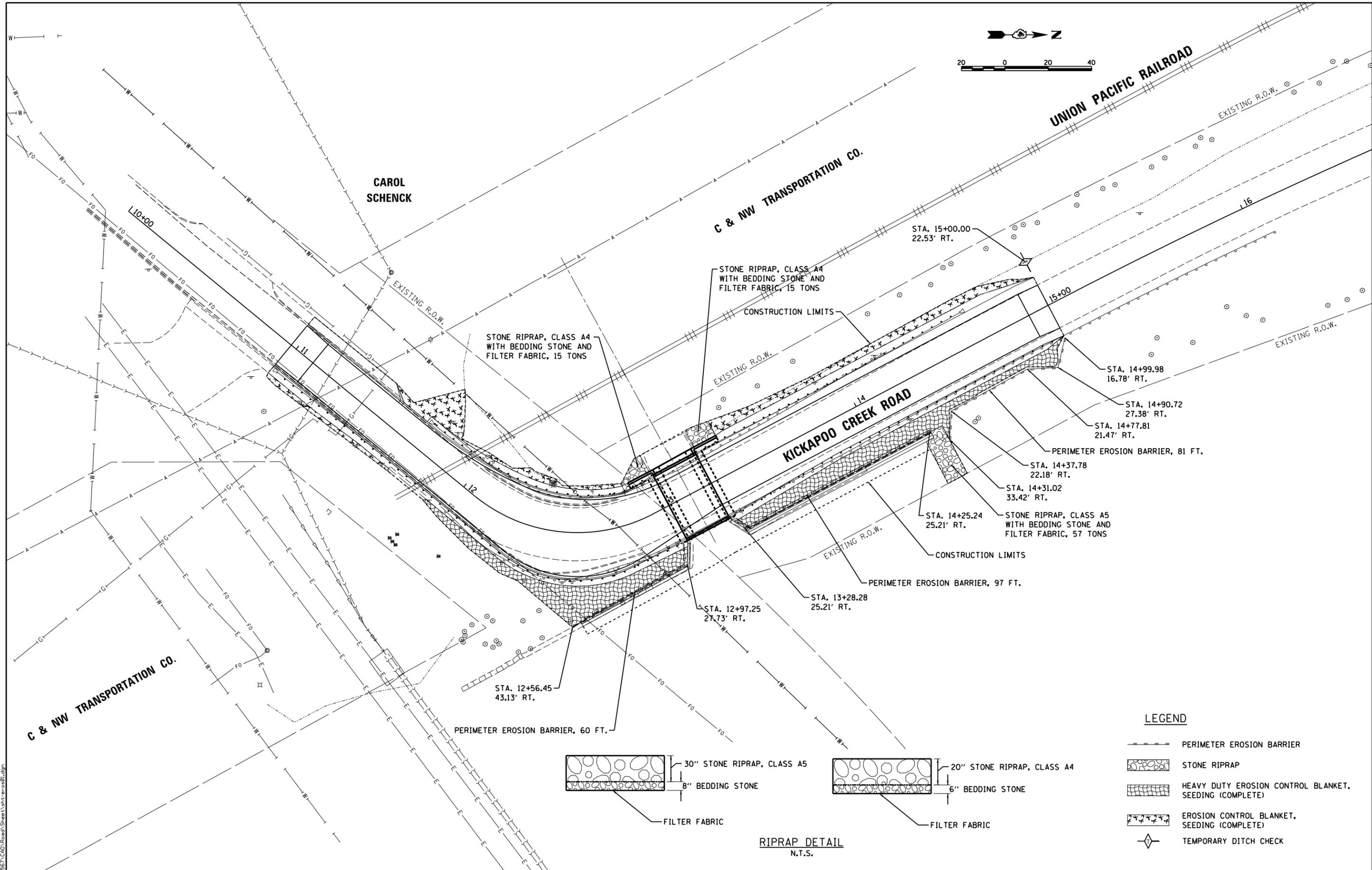
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CHECKED -	MGD
DATE -	8/8/19
REVISIONS -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 REMOVAL PLAN**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	14
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



RIPRAP DETAIL
N.T.S.

LEGEND

- PERIMETER EROSION BARRIER
- STONE RIPRAP
- HEAVY DUTY EROSION CONTROL BLANKET, SEEDING (COMPLETE)
- EROSION CONTROL BLANKET, SEEDING (COMPLETE)
- TEMPORARY DITCH CHECK

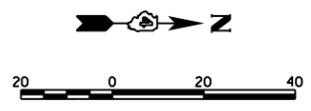
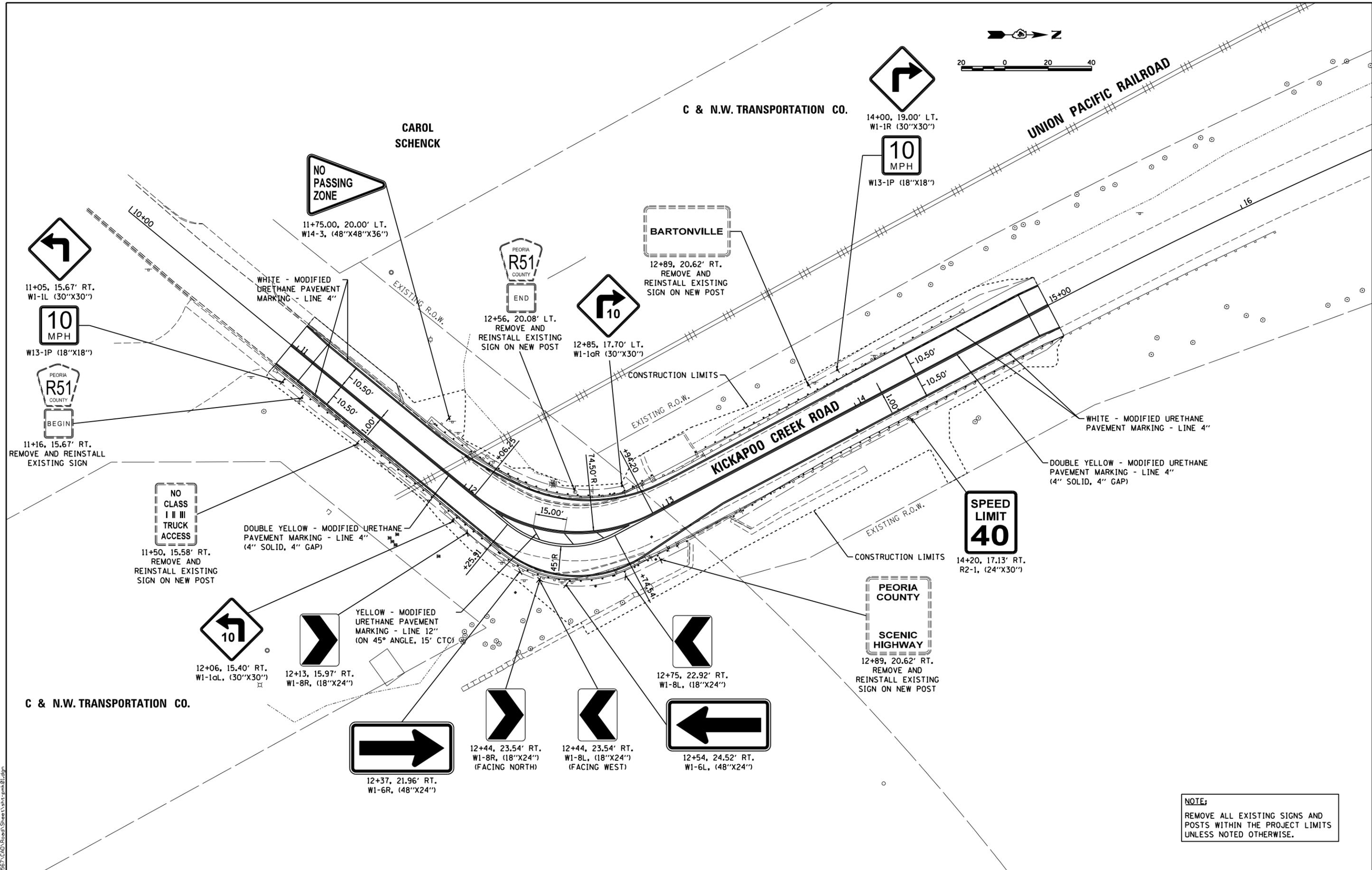
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REVIEWED	MGD	8/8/19			CHECKED - MGD	REVISED -
					DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KICKAPOO CREEK ROAD
EROSION CONTROL PLAN

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	16
CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	



NOTE:
 REMOVE ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS UNLESS NOTED OTHERWISE.

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19
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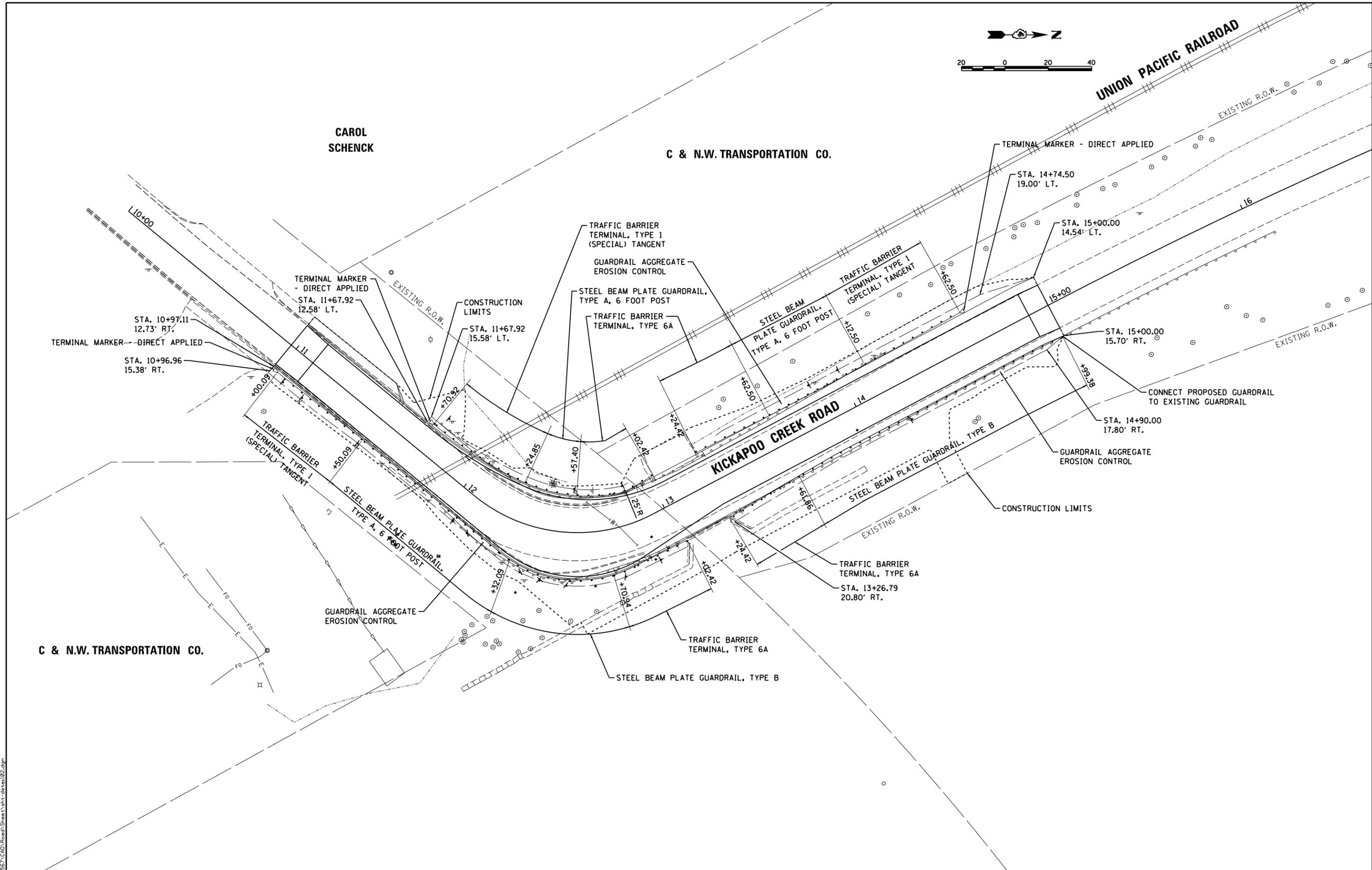
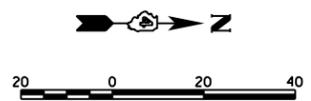
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DRAWN	- RLA
CHECKED	- MGD
DATE	- 8/8/19
REVIS	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 PAVEMENT MARKING AND SIGNAGE PLAN**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	17
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19

FILE NAME =	USER NAME = Ander00846	DESIGNED - BAB	REVISED -
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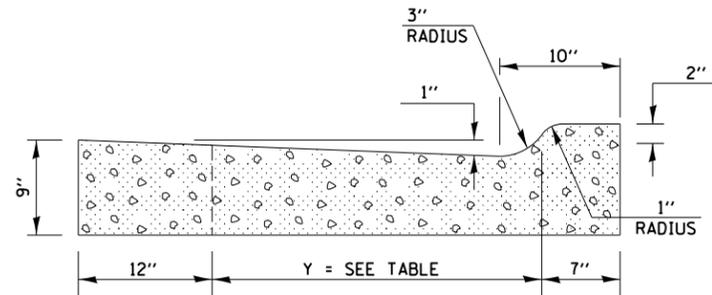
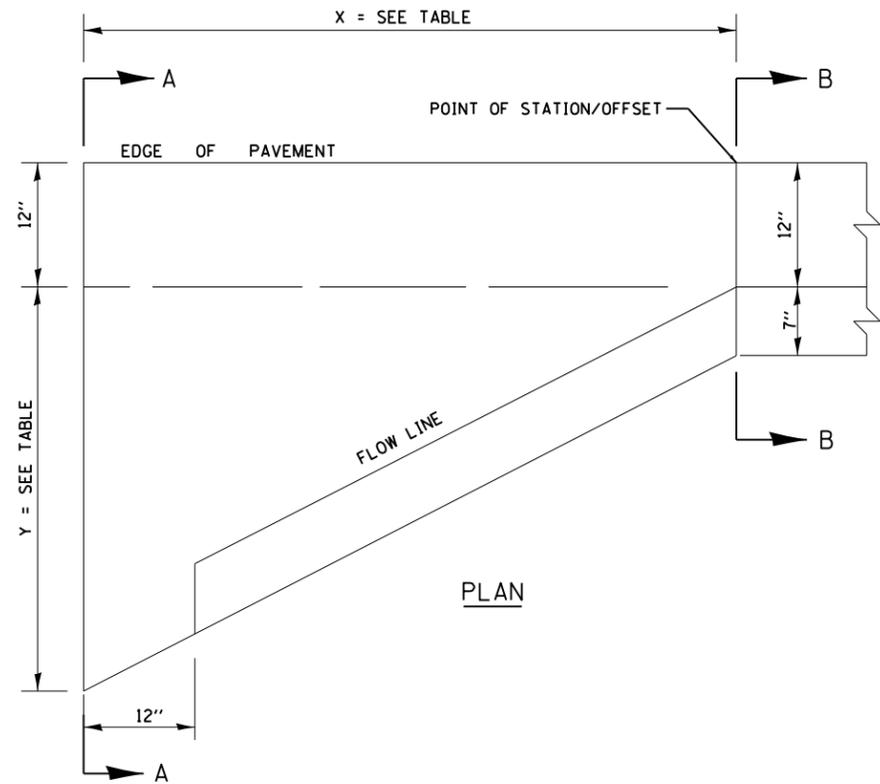
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
GUARDRAIL DETAIL**

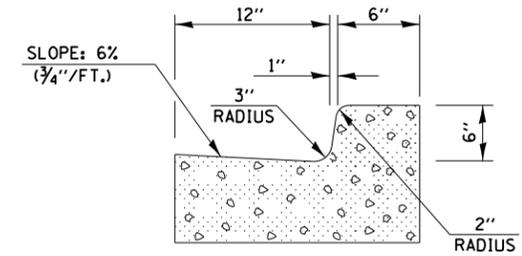
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	18
CONTRACT NO.			89748	

ILLINOIS FED. AID PROJECT



SECTION A-A



SECTION B-B

STATION	OFFSET	SIDE	X	Y
12+85.17	13.02'	LT	6'-0"	1'-10"
12+79.00	17.56'	RT	6'-0"	0'-11"

GENERAL NOTES

1. ALL CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DOWEL BAR CONFORMING TO ARTICLE 1006.11(b).
2. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CONCRETE CURB AND GUTTER END OUTLET SPECIAL WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19

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	PLOT DATE = 8/7/2019	DATE - 8/8/19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
 CONCRETE CURB AND GUTTER END OUTLET SPECIAL**

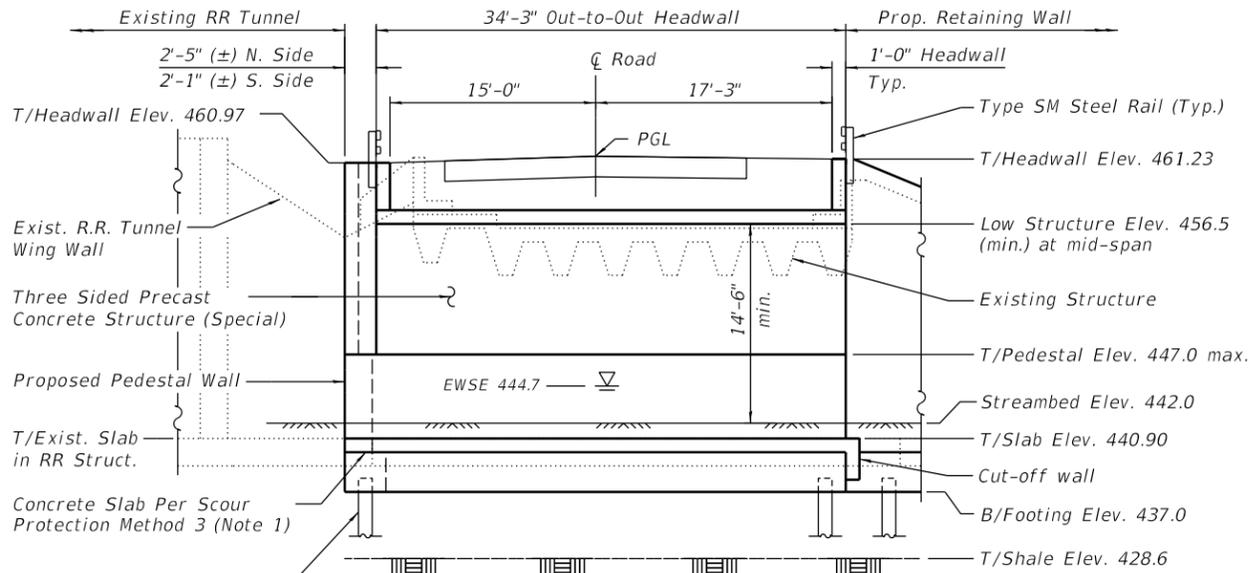
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	19
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

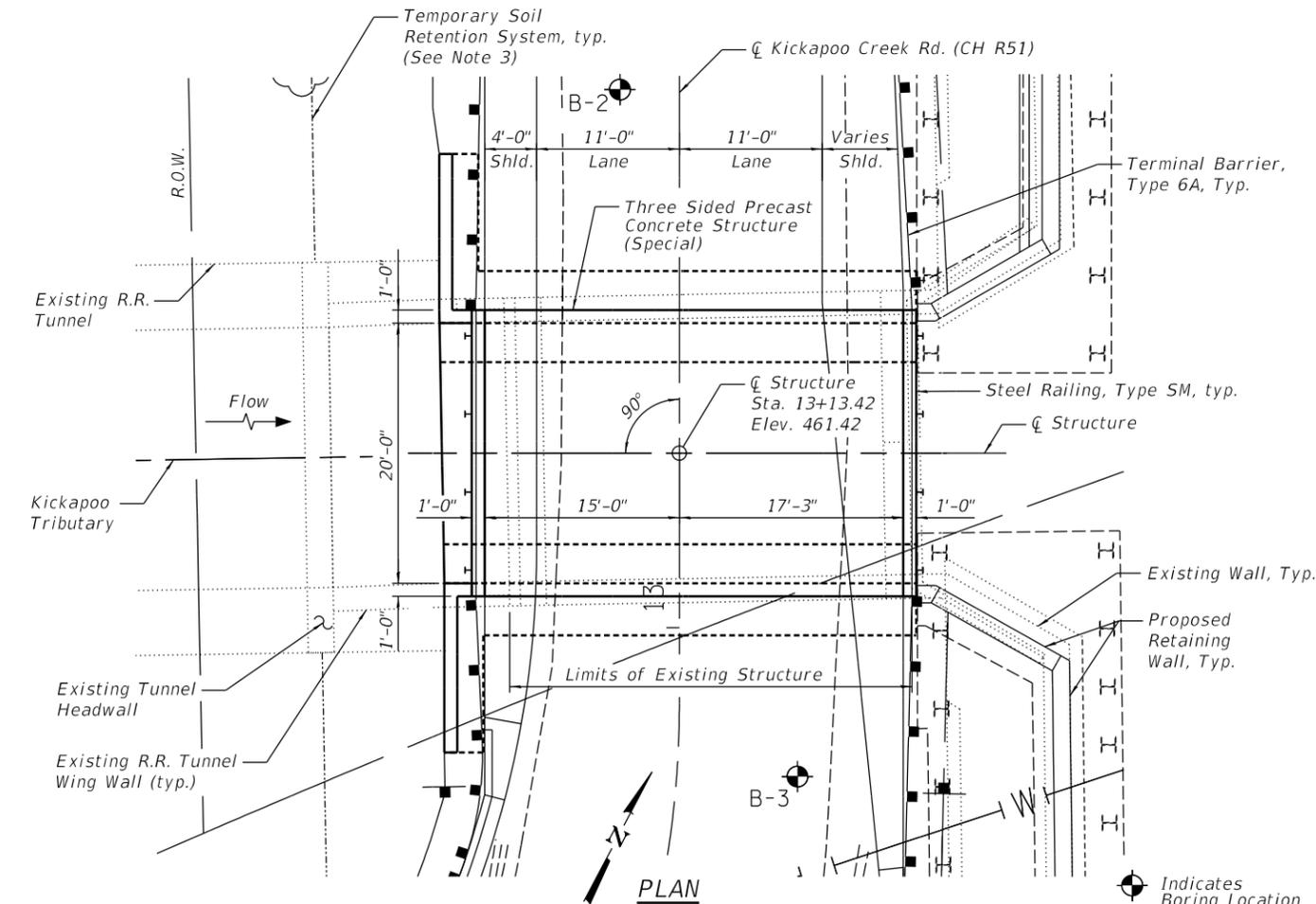
Bench Mark: Benchmark #401. Chiseled "X" on west side of top concrete "PSD" manhole riser. East of railroad bridge and south of Kickapoo Creek Road. Elev. 461.19

Existing Structure: SN. 072-3095. Constructed in 1960 and consists of a single span buried structure. The top slab consists of concrete T-beams with integral concrete deck. Closed concrete abutments support the superstructure. The structure has a clear span of 20 feet and a width of approximately 32 feet out-to-out of headwalls. The road will be closed during construction.

No salvage



LONGITUDINAL SECTION
(Along Centerline of Stream; Looking North)



PLAN

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes and Miscellaneous Details
3. Steel Railing, Type SM
4. Boring Logs

NOTES:

1. Slab shall be designed to span opening; attached to wall or footing; and have minimum thickness of 8". Slab may be cast-in-place or precast with tongue-in-groove joints.
2. Footings, pedestals and concrete wing walls may be cast-in-place or precast.
3. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer. Type, length and configuration of Temporary Soil Retention System to be determined by Contractor.

KICKAPOO CREEK TRIBUTARY
BUILT 20__ BY
PEORIA COUNTY
SEC. 16-00006-00-BR
F.A.U. 6576 STA. 13+13.42
STR. NO. 072-3159 LOADING HL-93

NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

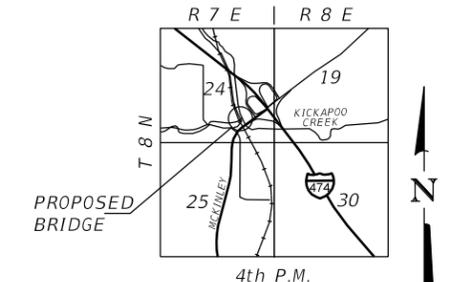
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement Bars)

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinforcement Bars)
 $f_y = 65,000$ psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_1) = 0.080g
Design Spectral Acceleration at 0.2 sec. ($S_0.1$) = 0.13g
Soil Site Class = C DS

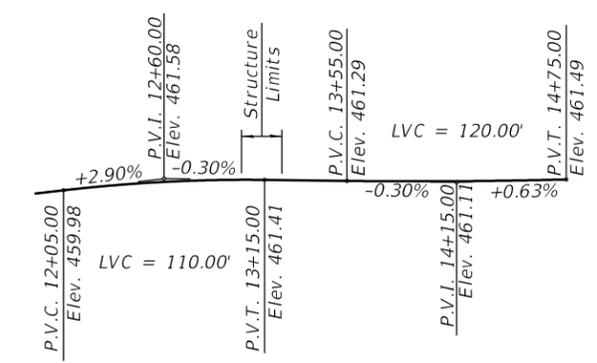


LOCATION SKETCH



Signature: *Stuart M. Kemp*
DATE: 8/6/2019
LIC. EXP. DATE: 11/30/2020

This seal only pertains to the design and detailing of Steel Railing, Type SM. The design of all other structural components is the responsibility of the Contractor's engineer in accordance with GBSP 90, Three Sided Precast Concrete Structure (Special).



PROFILE GRADE

WATERWAY INFORMATION

Drainage Area = 1.3 Sq. Mi. Low Grade Elev. 460.99 @ Sta. 12+50

Flood Yr.	Freq.	Q C.F.S.		Opening Sq. Ft.		Head - Ft.		Headwater El.		
		Exist.	Prop.	Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	30	1,104	1,177	179	237	458.2	1.7	1.4	459.9	459.6
Base	100	1,370	1,543	179	237	458.2	2.3	2.0	460.5	460.2

GENERAL PLAN & ELEVATION
KICKAPOO CREEK ROAD (CH R51) OVER
TRIBUTARY TO KICKAPOO CREEK
F.A.U. 6576 - SECTION 16-00006-00-BR
PEORIA COUNTY
STATION 13+13.42
STRUCTURE NO. 072-3159

DESIGNED	SMK	9/11/17
DRAWN	MGM	1/30/19
REVIEWED	SMK	1/30/19

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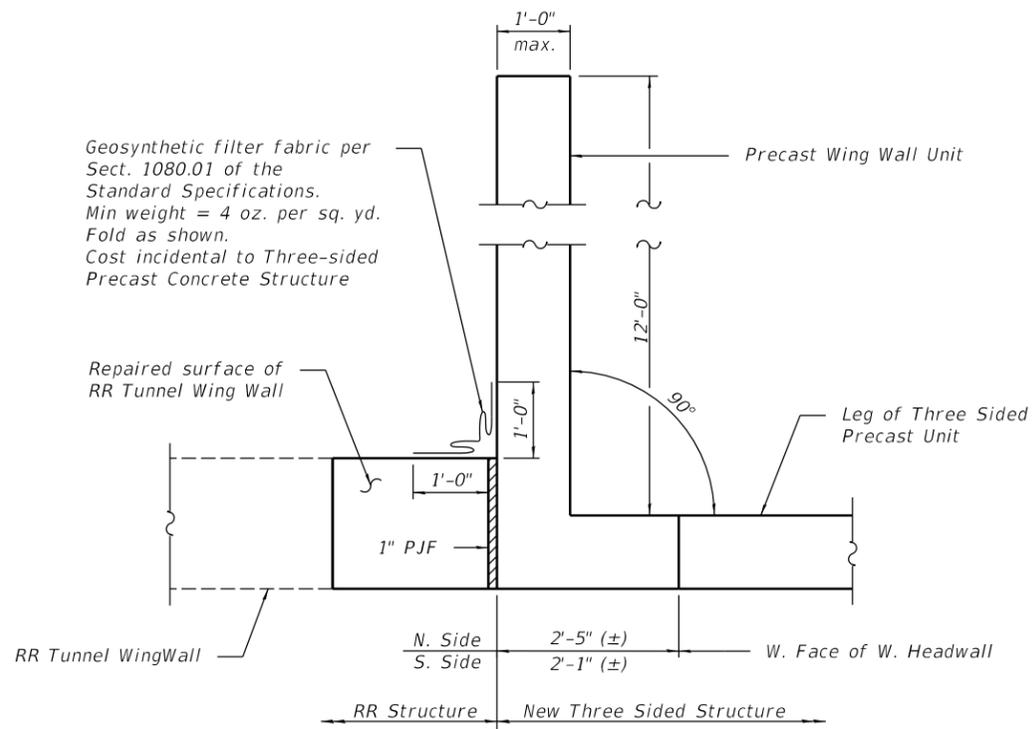
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PLOT DATE = 8/6/2019	DRAWN - MGM	REVISED -
	DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

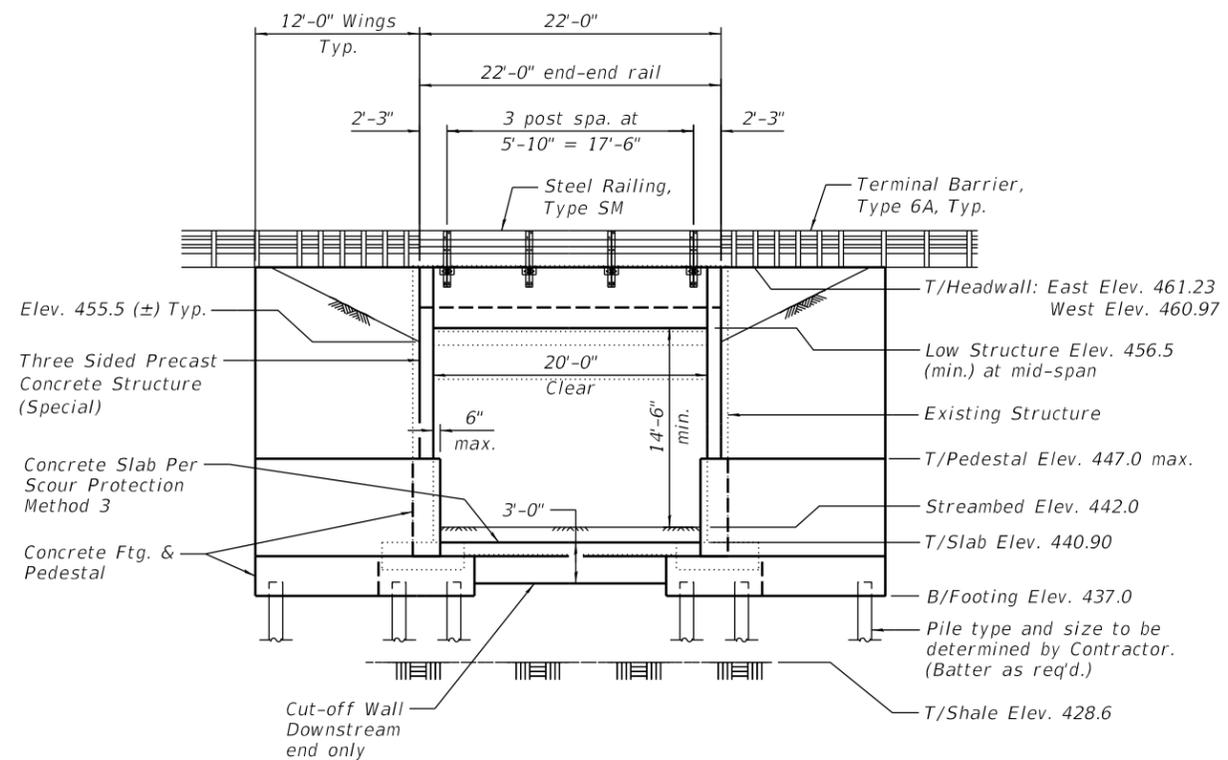
GENERAL PLAN & ELEVATION
STRUCTURE NO. 072-3159

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 89748	
ILLINOIS FED. AID PROJECT				

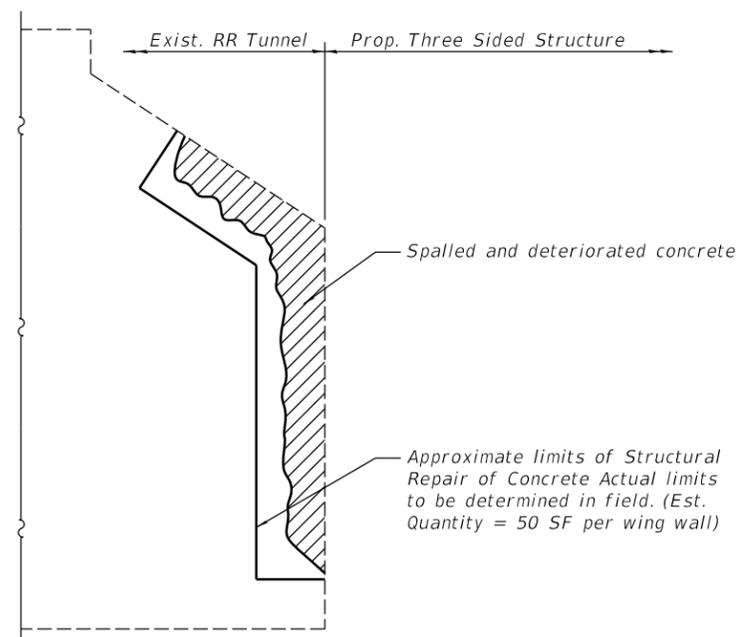
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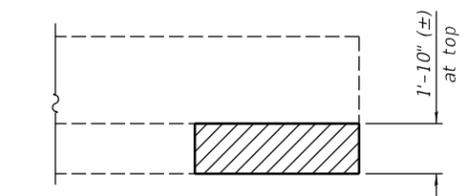
PLAN - JOINT BETWEEN RR TUNNEL WING WALL AND NEW STRUCTURE
(Showing North Wing, South Wing sim.)



WEST ELEVATION
(East Elev. sim., except no wing walls)



FRONT ELEV. - N.E. RR TUNNEL WING WALL
(S.E. Wing Wall sim.)



PLAN - N.E. RR TUNNEL WING WALL
(S.E. Wing Wall sim.)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Steel Railing, Type SM	Foot	44
Name Plates	Each	1
Temporary Soil Retention System	L. Sum	1
Structural Repair of Concrete (Depth <5 inches)	Sq. Ft.	150
Three Sided Precast Concrete Structure (Special) 20 Ft.	Foot	34.25

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
4. Backfill shall be placed behind the pedestal walls after the superstructure precast units have been placed and grouted. Backfill shall be placed in equal lifts behind both pedestal walls.

DESIGNED	SMK	9/11/17
DRAWN	MGM	7/30/19
REVIEWED	SMK	7/30/19

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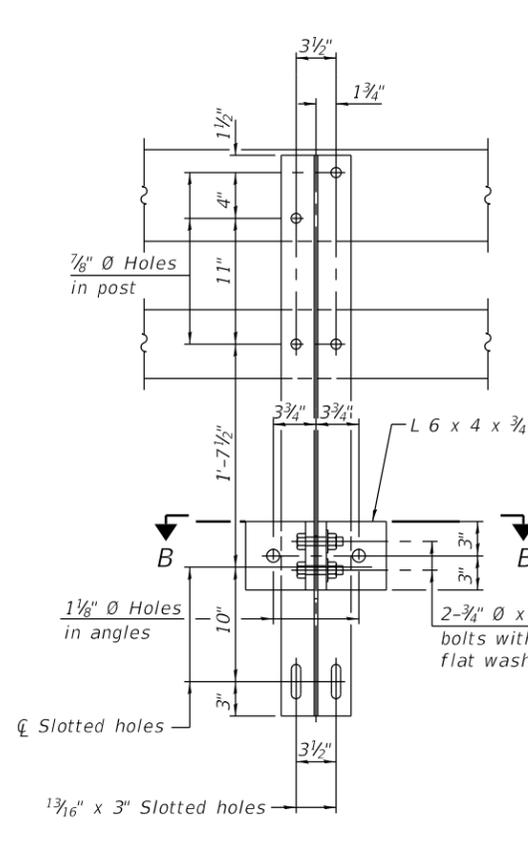
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PLOT DATE = 7/30/2019	DRAWN - MGM	REVISED -
	DATE - 8/8/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

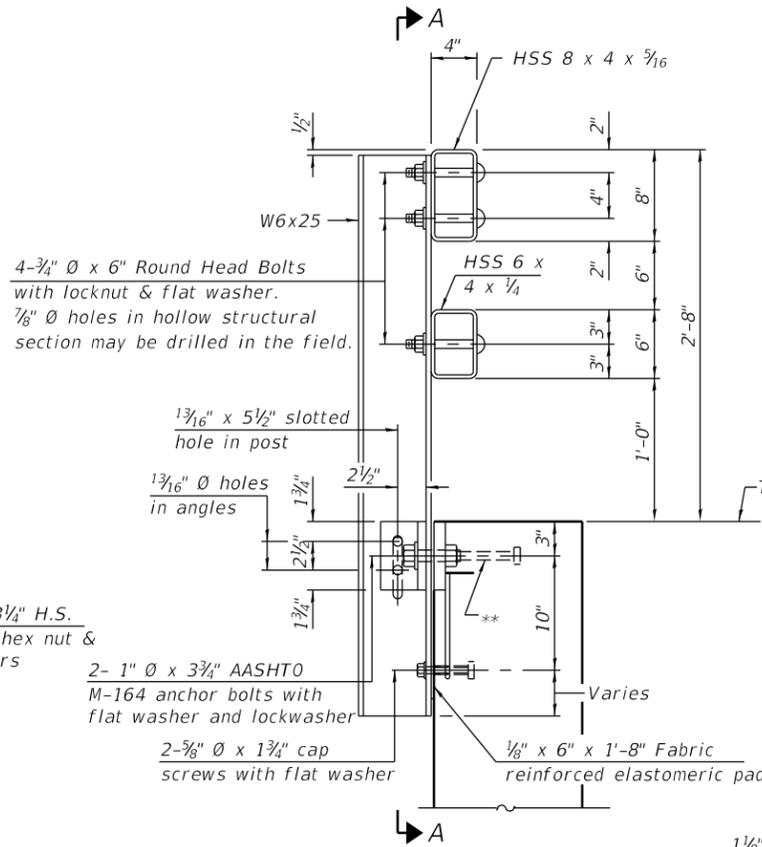
**GENERAL NOTES AND MISCELLANEOUS DETAILS
STRUCTURE NO. 072-3159**

SHEET NO. 2 OF 4 SHEETS

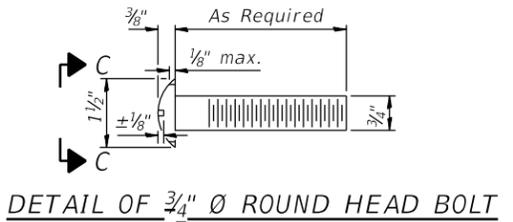
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6576	16-00006-00-BR	PEORIA	44	21
CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	



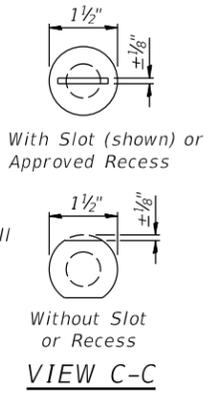
SECTION A-A



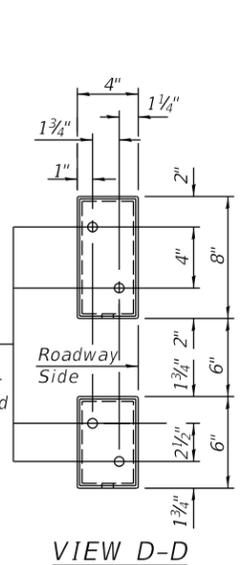
SECTION AT RAIL POST



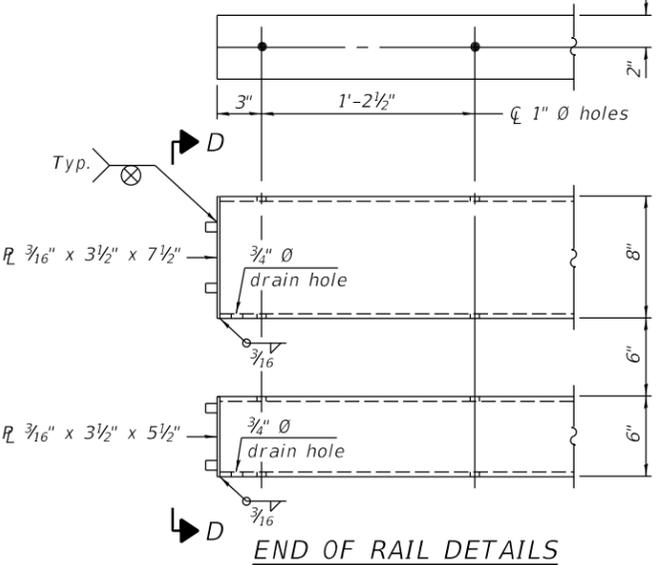
DETAIL OF 3/4" Ø ROUND HEAD BOLT



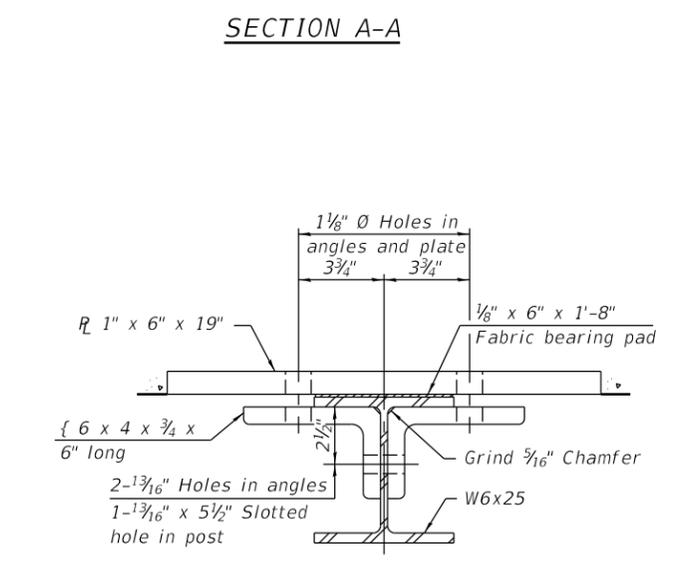
VIEW C-C



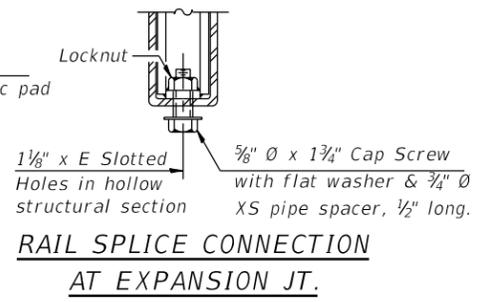
VIEW D-D



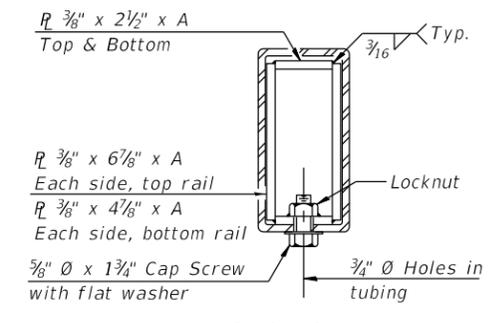
END OF RAIL DETAILS



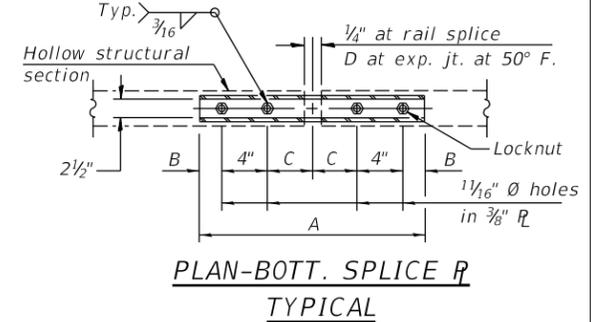
SECTION B-B



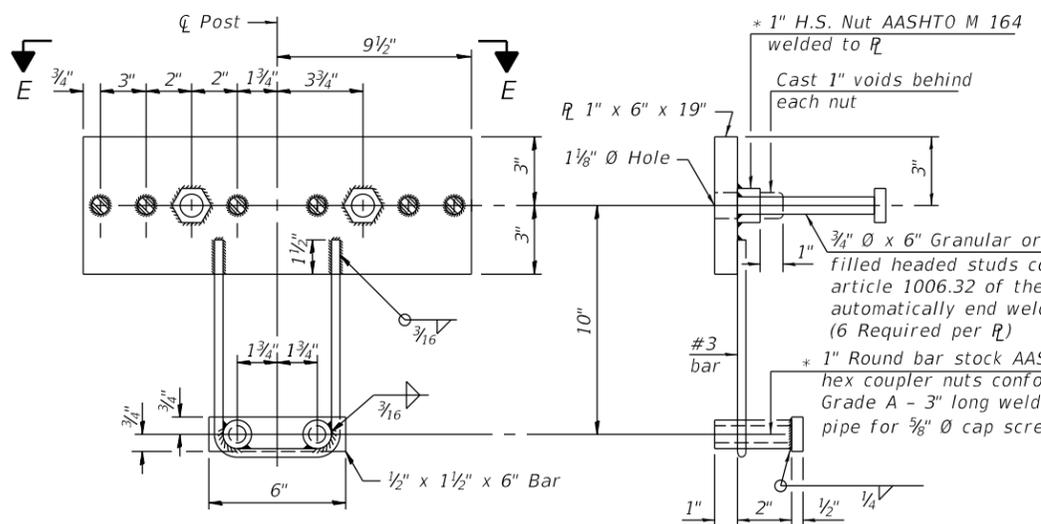
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel railing elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	44

DESIGNED	SMK	9/11/17
DRAWN	MGM	4/26/19
REVIEWED	SMK	4/26/19

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PLOT DATE = 7/30/2019	DRAWN - MGM	REVISED -
	DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM ATTACHED TO HEADWALL
STRUCTURE NO. 072-3159

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	22
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

SHEET NO. 3 OF 4 SHEETS

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 8/14/17

ROUTE CH R51 DESCRIPTION Kickapoo Creek Road Over Trib. to Kickapoo Creek
 SECT. 16-00006-00-BR STRUCT. NO. 072-3159 DRILLED BY B. Williamson
 COUNTY Peoria LOCATION N 1,452,953 E 2,440,461 S. 24, TWP. 8N, RNG. 7E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BL	OS	Qu	W	Surface Water Elev.	Groundwater Elev.:	DEPTH	BL	OS	Qu	W	
B-2	13+41	5.00ft LT	461.60 ft				tsf	%		438.6						
Asphalt Pavement 461.30																
Aggregate Base 460.70																
Very stiff dark brown-brown SILTY CLAY LOAM					18	P	16					1				
					5		3.5					4				
					6							6				
					6	P	24					4		20		
					7		3.5					4				
					7							5				
					7							5				
Soft to medium stiff brown-gray SILTY LOAM					2	B	22									
					2		0.45									
					2											
Dense gray weathered SHALE					1	B	12					50/4"		11		
					2		0.94									
					2											
Stiff brown SILTY LOAM					2	B	17									
					3		1.27									
					3											
Soft dark gray SILTY LOAM					1	B	21					50/4"		15		
					2		0.98									
					2											
Dense gray SHALE					3	P	32									
					3		0.5									
					3											
Soft dark gray SILTY LOAM					0	B	32									
					1		0.49									
					1											
Core Run #1 - 40' to 50' Recovery - 98% RQD - 97%					1	B	34									
					1		0.41									
					1											
End of Boring at 50'					1	P	30									
					1		0.5									
					2											

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
 Ramsey Geotechnical Engineering
 STRUCTURE BORING LOG

Page 1 of 1
 Date 8/15/17

ROUTE CH R51 DESCRIPTION Kickapoo Creek Road Over Trib. to Kickapoo Creek
 SECT. 16-00006-00-BR STRUCT. NO. 072-3159 DRILLED BY B. Williamson
 COUNTY Peoria LOCATION N 1,452,913 E 2,440,498 S. 24, TWP. 8N, RNG. 7E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BL	OS	Qu	W	Surface Water Elev.	Groundwater Elev.:	DEPTH	BL	OS	Qu	W	
B-3	12+89	9.00ft RT	461.60 ft				tsf	%		438.6						
Asphalt Pavement 461.30																
Aggregate Base 460.70																
Very loose gray sandy LOAM					6							1		25		
					6							1				
					7							1				
Stiff dark brown SILTY LOAM					2	P	15					1		43		
					3		1.5					2				
					4							1				
Soft brown SILTY CLAY LOAM					2	P	20									
					2		0.5									
					2											
Very dense gray weathered SHALE					1	B	23					50/4"		6		
					2		0.45									
					2											
Very dense gray SHALE					1	B	19									
					1		0.37									
					2											
Soft dark gray SILTY LOAM					3	P	18									
					2		0.5									
					3											
Core Run #1 - 35' to 45' Recovery - 100% RQD - 95%					3	P	29									
					3		0.5									
					3											
Soft dark gray SILTY LOAM, wood in sample					3	P	55									
					2		0.5									
					2											
End of Boring at 45'					1	P	38									
					1		0.25									
					1											
Very soft dark gray SANDY LOAM					1											
					1											
					1											
Very loose gray fine SAND					1											
					1											
					1											

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

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DRAWN	MGM	4/26/19
REVIEWED	SMK	4/26/19

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CHECKED -	RGK	REVISED -			
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PLOT DATE =	7/30/2019	DATE -	8/8/19	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 072-3159

SHEET NO. 4 OF 4 SHEETS

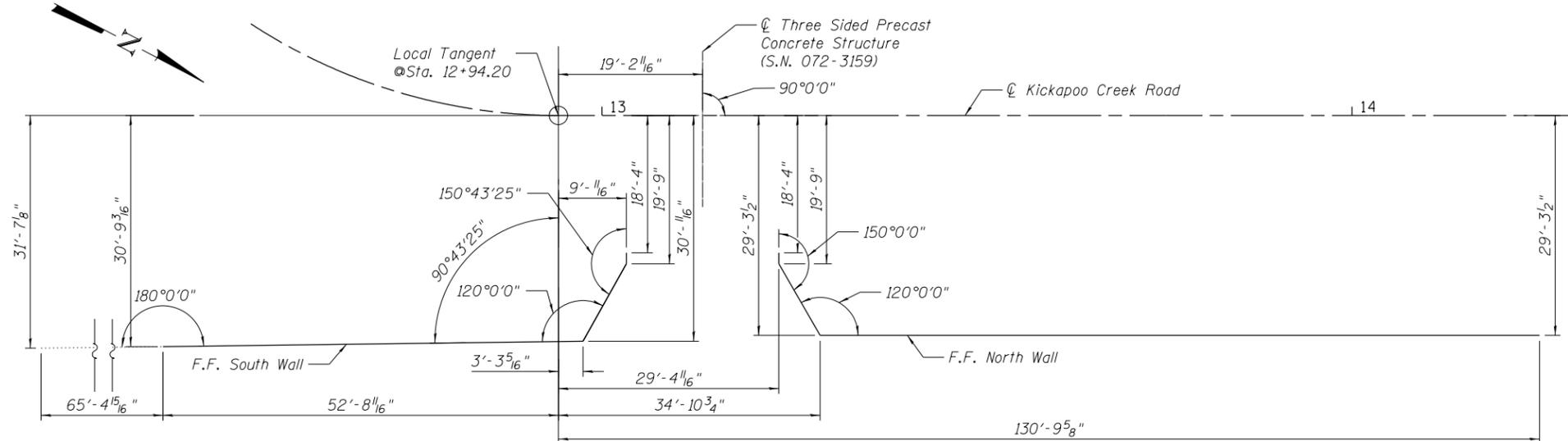
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6576	16-00006-00-BR	PEORIA	44	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89748	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Typical Sections
4. Plan and Elevation - South Wall
5. Plan and Elevation - North Wall
6. Sections
7. Pile Layout
8. HP Pile Details
9. Subsurface Data Profile
10. Subsurface Data Profile



LAYOUT SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Removal of Existing Structures No. 3	Each	1
Cofferdam Excavation	Cu. Yd.	2025
Cofferdam (Type 1) (Location - 1)	Each	1
Cofferdam (Type 1) (Location - 2)	Each	1
Reinforcement Bars, Epoxy Coated	Pound	63800
Furnishing Steel Piles HP14X89	Foot	767
Driving Piles	Foot	767
Test Pile Steel HP14x89	Each	1
Concrete Structures (Retaining Wall)	Cu. Yd.	526.6
Geocomposite Wall Drain	Sq. Yd.	257
Concrete Gutter, Type B	Foot	96

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

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	CHECKED - RGC	REVISED -
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PLOT DATE = 8/6/2019	DATE - 8/8/19	REVISED -



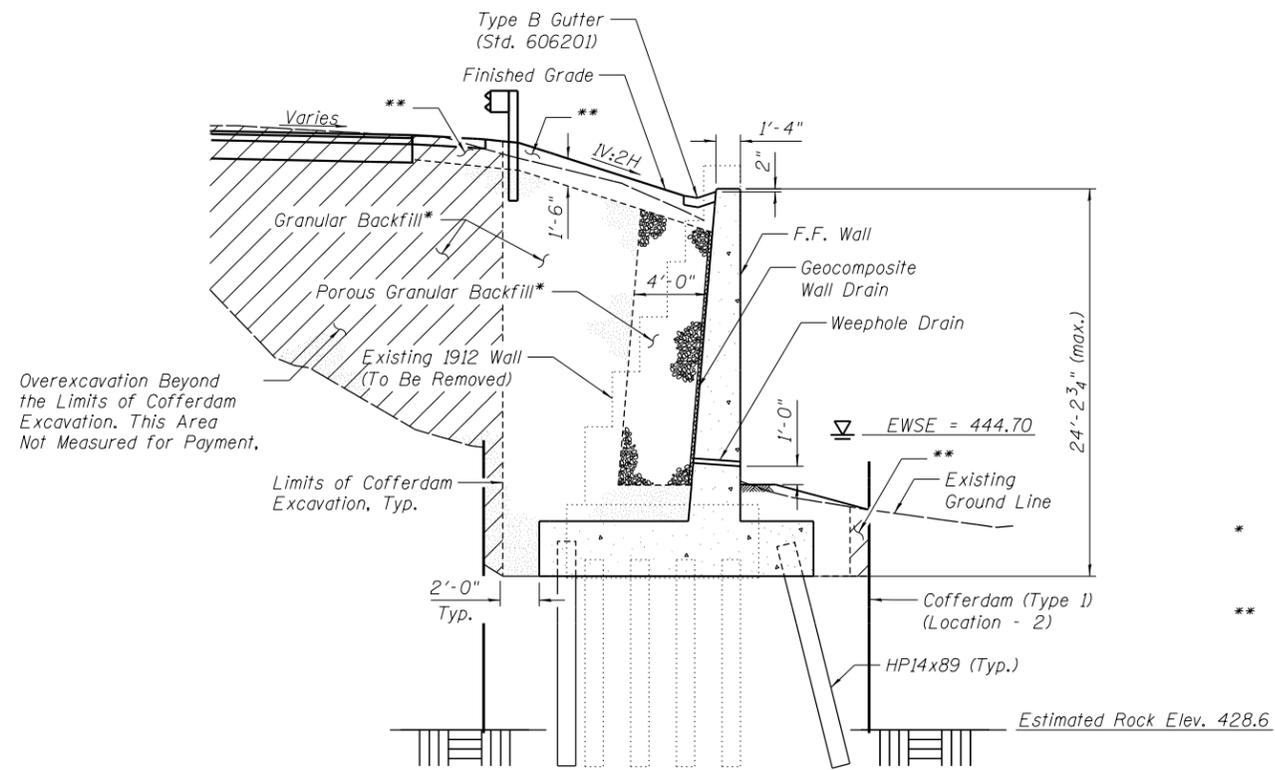
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

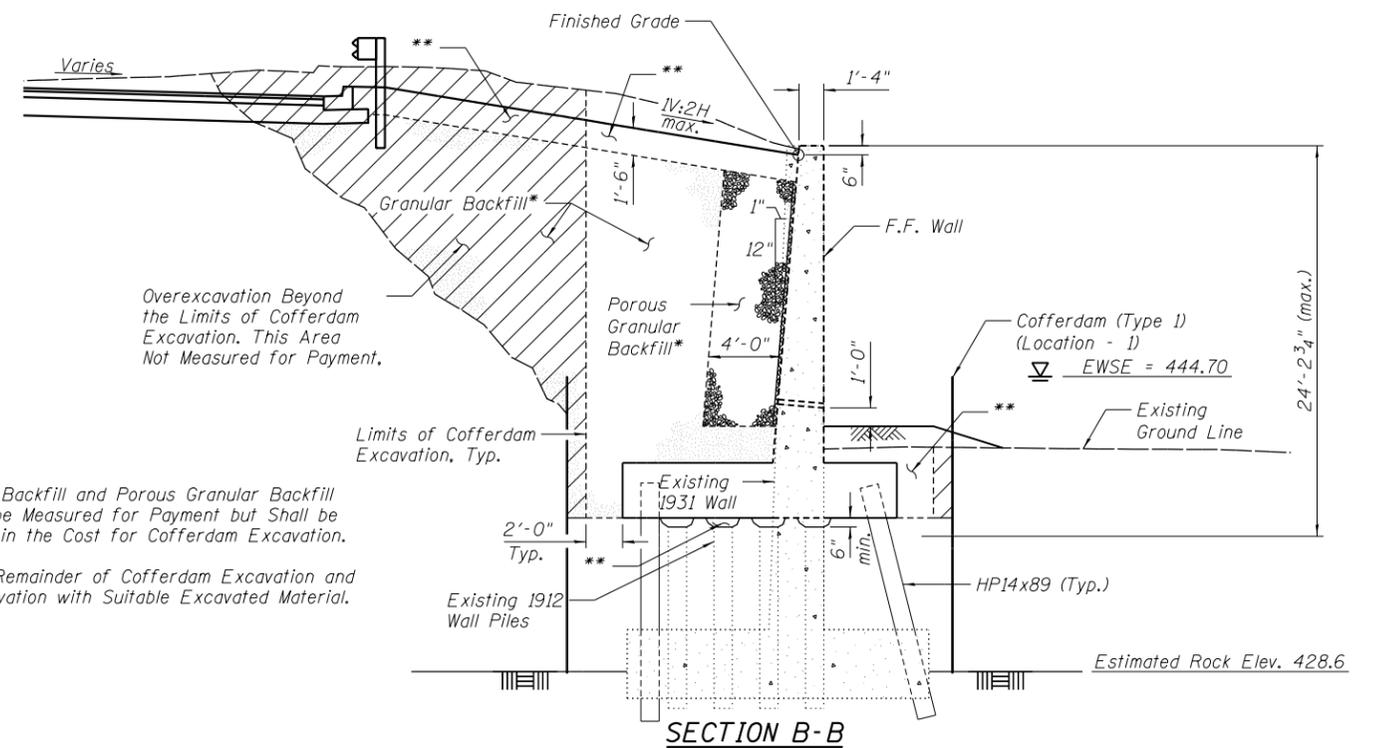
**KICKAPOO CREEK ROAD RETAINING WALL
GENERAL DATA**

SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 89748	
ILLINOIS FED. AID PROJECT				

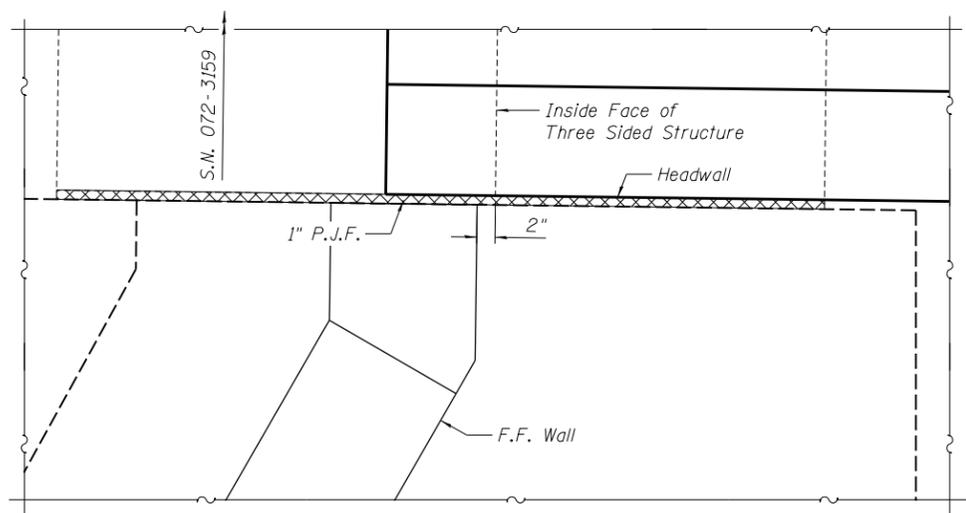


SECTION A-A



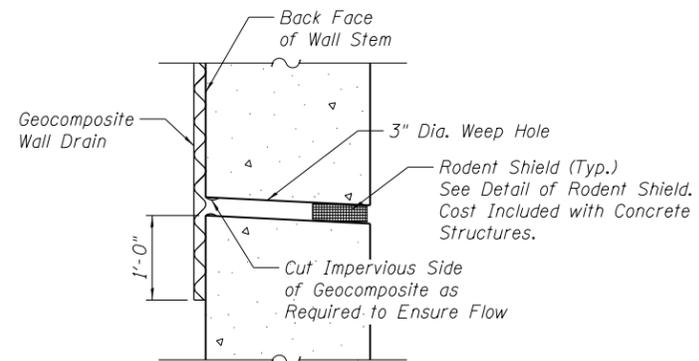
SECTION B-B

- * Granular Backfill and Porous Granular Backfill Will Not be Measured for Payment but Shall be Included in the Cost for Cofferdam Excavation.
- ** Backfill Remainder of Cofferdam Excavation and Overexcavation with Suitable Excavated Material.

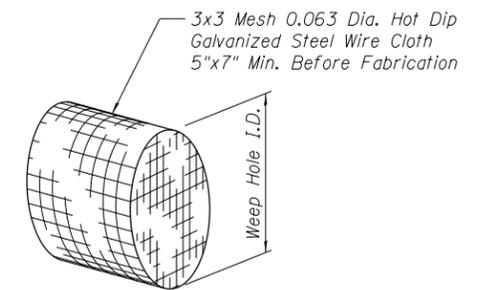


DETAIL AT THREE-SIDED PRECAST CONCRETE STRUCTURE

Plan of South Wall (North Wall Similar)



WEEP HOLE DRAIN DETAIL



DETAIL OF RODENT SHIELD

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

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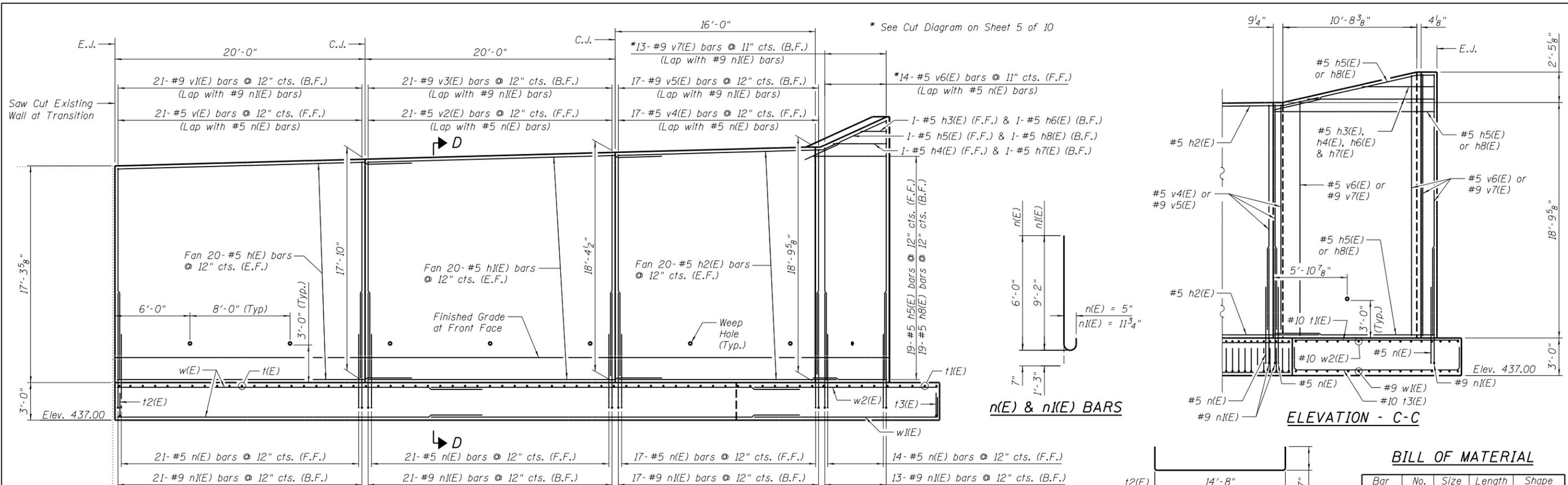
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD RETAINING WALL
TYPICAL SECTIONS**

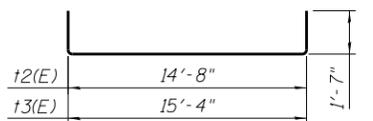
SHEET NO. 3 OF 10 SHEETS

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			CONTRACT NO. 89748	

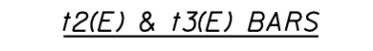
ILLINOIS FED. AID PROJECT



ELEVATION - SOUTH WALL



ELEVATION - C-C



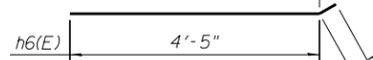
t2(E) & t3(E) BARS



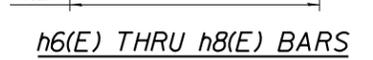
h2(E) BAR



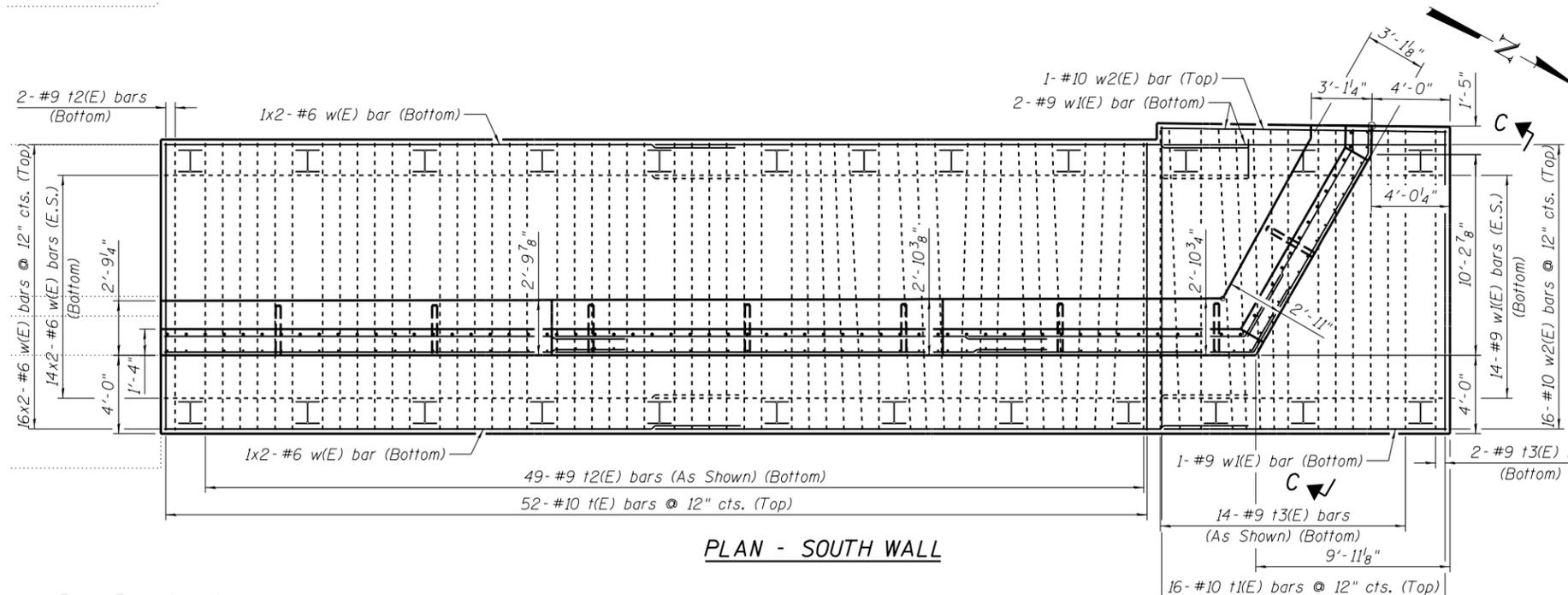
h6(E) THRU h8(E) BARS



h3(E) THRU h5(E) BARS



w1(E) BAR



PLAN - SOUTH WALL

Note: E.J. = Expansion Joint
 C.J. = Construction Joint
 E.F. = Each Face
 F.F. = Front Face
 B.F. = Back Face
 E.S. = Equally Spaced

MIN. BAR LAPS
 #5 Bars = 3'-7" (Horz.)
 #5 Bars = 3'-2" (Vert.)
 #6 Bars = 4'-4" (Horz.)
 #9 Bars = 6'-3" (Vert.)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	23'-8"	—
h1(E)	40	#5	25'-2"	—
h2(E)	40	#5	18'-4"	—
h3(E)	1	#5	5'-10"	—
h4(E)	1	#5	10'-2"	—
h5(E)	20	#5	12'-9"	—
h6(E)	1	#5	5'-4"	—
h7(E)	1	#5	9'-8"	—
h8(E)	20	#5	11'-10"	—
n(E)	73	#5	6'-7"	—
n1(E)	72	#9	10'-5"	—
t(E)	52	#10	14'-8"	—
t1(E)	16	#10	15'-4"	—
t2(E)	51	#9	17'-10"	—
t3(E)	16	#9	18'-6"	—
v(E)	21	#5	17'-0"	—
v1(E)	21	#9	17'-0"	—
v2(E)	21	#5	17'-6"	—
v3(E)	21	#9	17'-6"	—
v4(E)	17	#5	18'-0"	—
v5(E)	17	#9	18'-0"	—
w(E)	64	#6	29'-10"	—
w1(E)	17	#9	16'-3"	—
w2(E)	17	#10	14'-8"	—
Cofferdam Excavation		Cu. Yd.	812	
Cofferdam (Type 1) (Location 1)		Each	1	
Concrete Structures (Retaining Wall)		Cu. Yd.	207.8	
Reinforcement Bars Epoxy Coated		Pound	24290	
Furnishing Steel Piles HP14x89		Foot	312	
Driving Piles		Foot	312	

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

USER NAME = madou00223
 PLOT SCALE = 0.1667' / 1"
 PLOT DATE = 8/6/2019

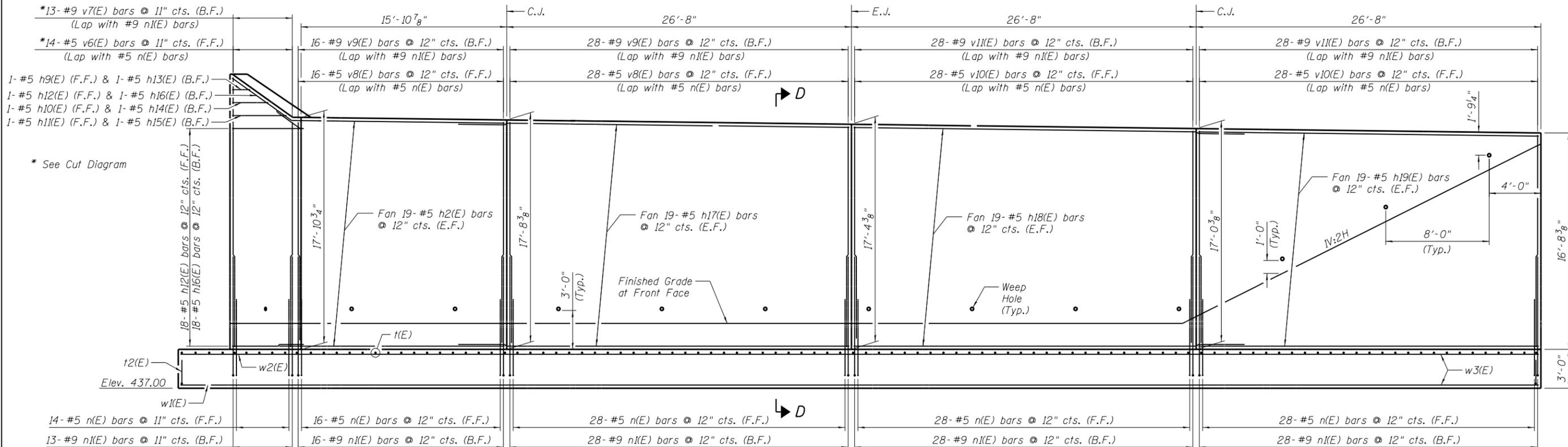
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CHECKED -	RGC	REVISD -	
DRAWN -	EJM	REVISD -	
DATE -	8/8/19	REVISD -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

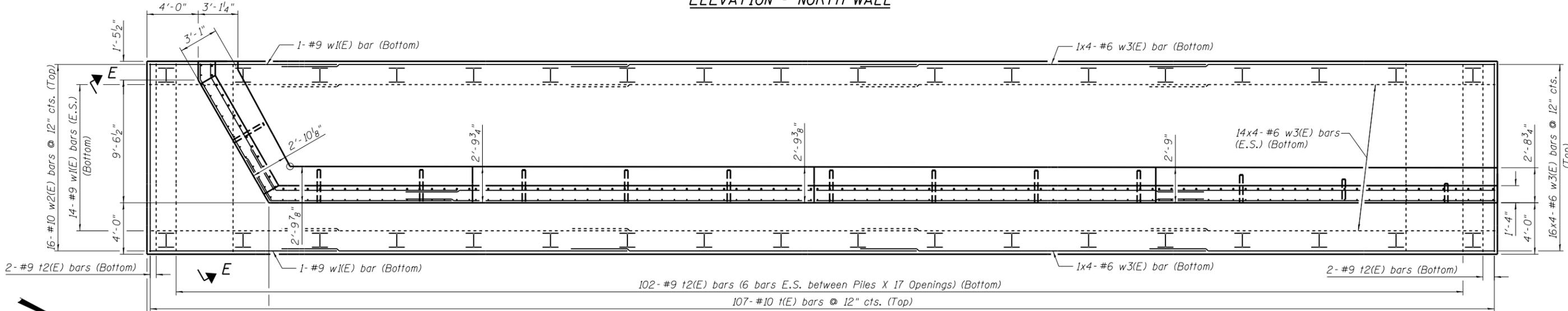
KICKAPOO CREEK ROAD RETAINING WALL
PLAN AND ELEVATION - SOUTH WALL

SHEET NO. 4 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	27
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



ELEVATION - NORTH WALL



PLAN - NORTH WALL

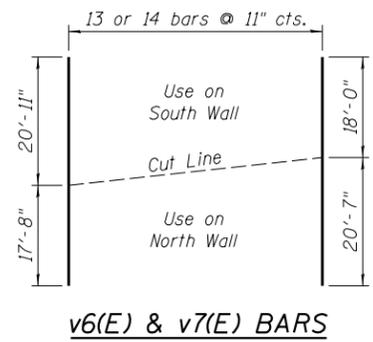
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape			
h2(E)	38	#5	18'-4"	—	h18(E)	38	#5	30'-3"	—	v6(E)	14	#5	38'-7"	—	Cofferdam Excavation	Cu. Yd.	1213
h9(E)	1	#5	4'-6"	—	h19(E)	38	#5	26'-4"	—	v7(E)	13	#9	38'-7"	—	Cofferdam (Type 1)	Each	1
h10(E)	1	#5	7'-5"	—						v8(E)	44	#9	17'-2"	—	(Location 2)		
h11(E)	1	#5	10'-5"	—	n(E)	114	#5	6'-7"	—	v9(E)	44	#9	17'-2"	—	Concrete Structures	Cu. Yd.	318.8
h12(E)	19	#5	12'-0"	—	n1(E)	113	#9	10'-5"	—	v10(E)	56	#5	16'-6"	—	(Retaining Wall)		
h13(E)	1	#5	4'-0"	—						v11(E)	56	#9	16'-6"	—	Reinforcement Bars	Pound	39510
h14(E)	1	#5	6'-11"	—	t(E)	107	#10	14'-8"	—					Epoxy Coated			
h15(E)	1	#5	9'-11"	—	t2(E)	106	#9	17'-10"	—	w1(E)	16	#9	16'-3"	—	Furnishing Steel	Foot	455
h16(E)	19	#5	11'-0"	—						w2(E)	16	#10	14'-8"	—	Piles HP14x89		
h17(E)	38	#5	31'-10"	—						w3(E)	128	#6	27'-0"	—	Driving Piles	Foot	455
															Test Pile Steel HP14x89	Each	1

Note: E.J. = Expansion Joint
 C.J. = Construction Joint
 E.F. = Each Face
 F.F. = Front Face
 B.F. = Back Face
 E.S. = Equally Spaced

MIN. BAR LAPS

- #5 Bars = 3'-7" (Horz.)
- #5 Bars = 3'-2" (Vert.)
- #6 Bars = 4'-4" (Horz.)
- #9 Bars = 6'-3" (Vert.)



DESIGNED	5/7/19	KMS
DRAWN	5/7/19	EJM
REVIEWED	8/5/19	RGC

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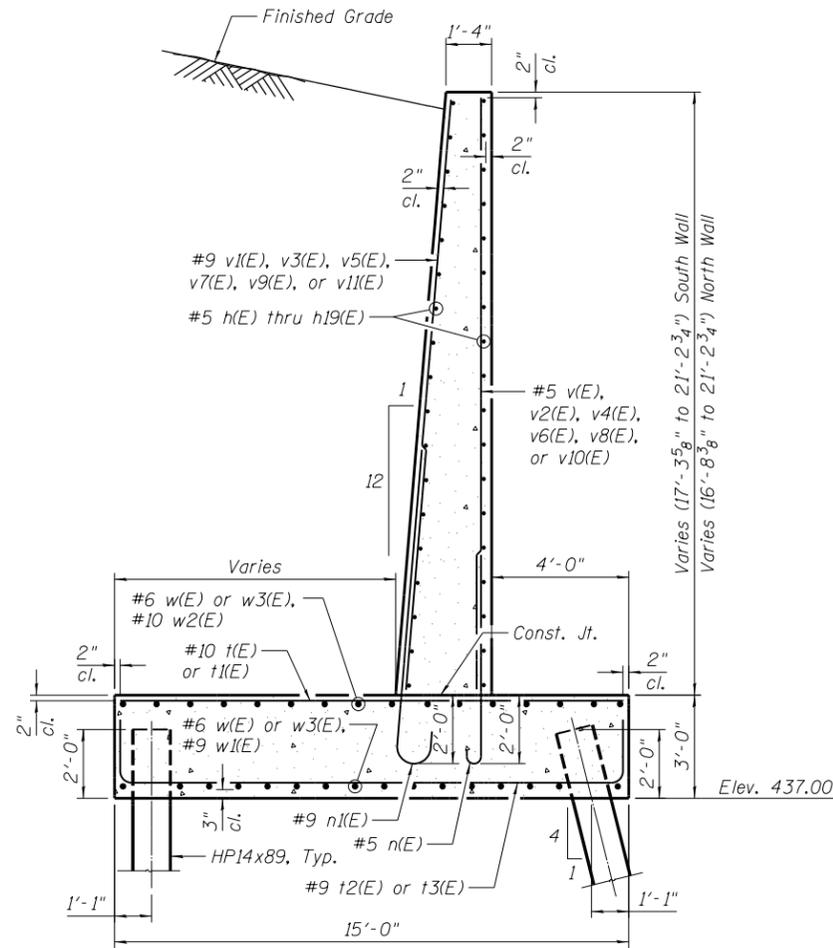
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PLOT SCALE = 0.1667' / 1"	CHECKED - RGC	REVISD -
PLOT DATE = 8/6/2019	DRAWN - EJM	REVISD -
	DATE - 8/8/19	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

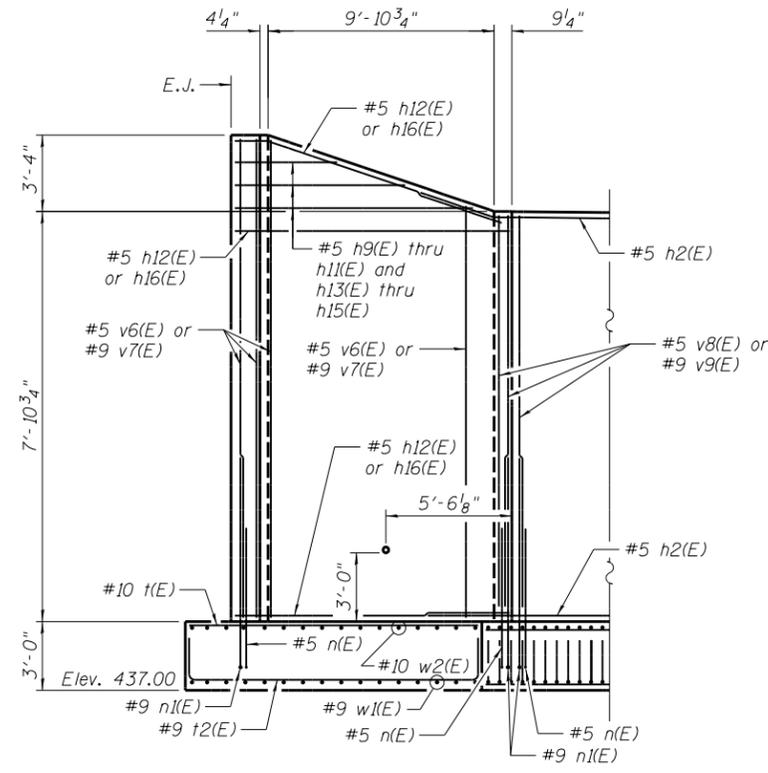
**KICKAPOO CREEK ROAD RETAINING WALL
 PLAN AND ELEVATION - NORTH WALL**

SHEET NO. 5 OF 10 SHEETS

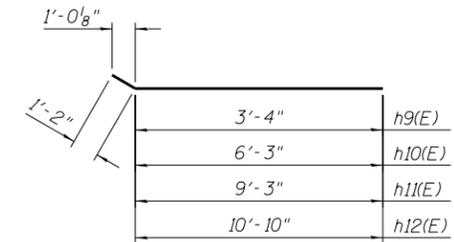
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			CONTRACT NO. 89748	
ILLINOIS FED. AID PROJECT				



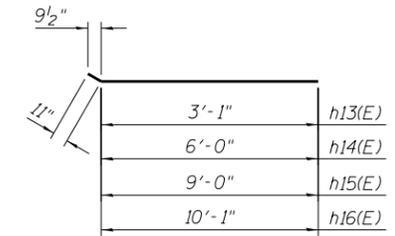
SECTION D-D



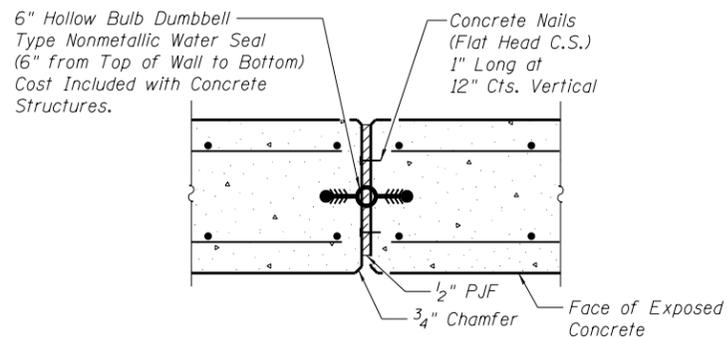
ELEVATION E-E



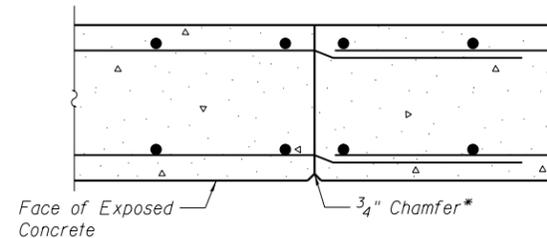
h9(E) THRU h12(E) BARS



h13(E) THRU h16(E) BARS

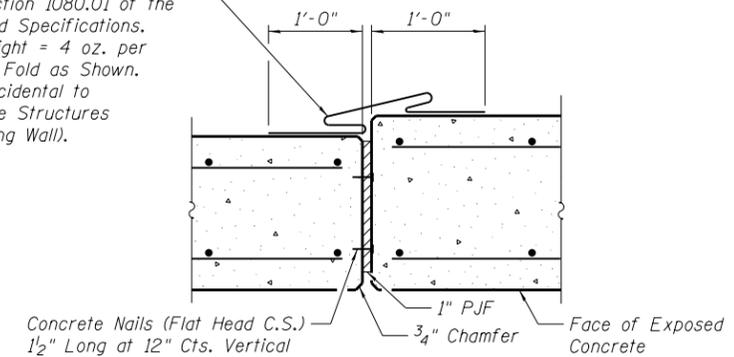


TYPICAL WALL EXPANSION JOINT DETAIL



TYPICAL WALL CONSTRUCTION JOINT DETAIL

Geosynthetic Filter Fabric Per Section 1080.01 of the Standard Specifications. Min. Weight = 4 oz. per Sq. Yd. Fold as Shown. Cost Incidental to Concrete Structures (Retaining Wall).



TYPICAL WALL EXPANSION JOINT DETAIL AT ADJACENT STRUCTURE

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RCG	8/5/19

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USER NAME	= sch1101009
PLOT SCALE	= 0.1667' / in.
PLOT DATE	= 8/6/2019

DESIGNED	- KMS
CHECKED	- RGC
DRAWN	- EJM
DATE	- 8/8/19

REVISED	-

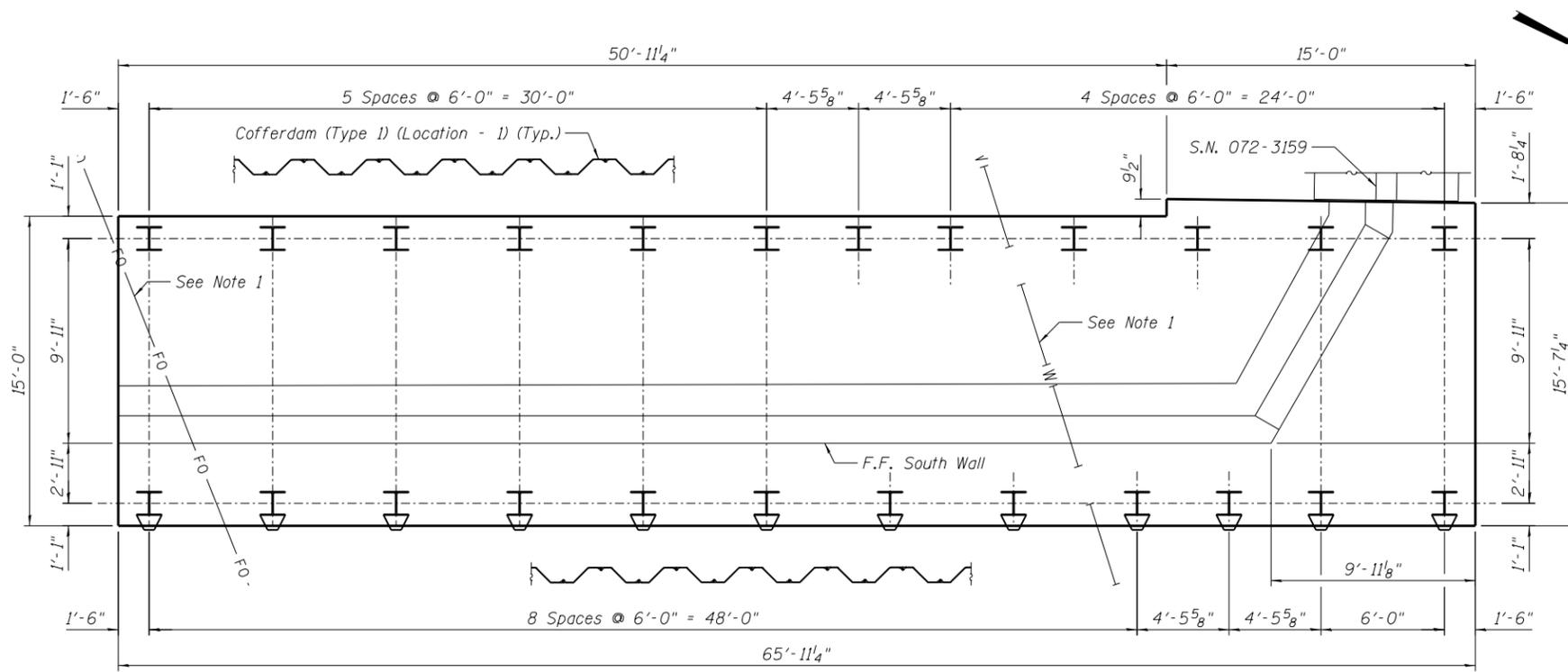
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD RETAINING WALL
SECTIONS**

SHEET NO. 6 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	29
			CONTRACT NO. 89748	

ILLINOIS FED. AID PROJECT

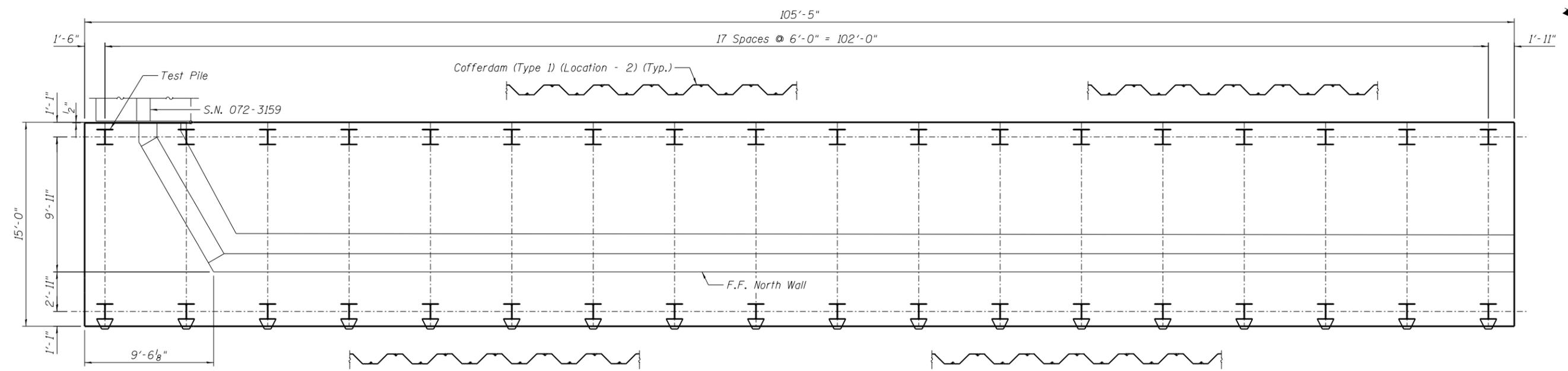


PLAN - SOUTH WALL

PILE DATA

Type:	HP14X89
Nominal Required Bearing:	578 kips
Factored Resistance Available:	307 kips
Est. Length:	13 Feet
No. Production Piles:	59
No. Test Piles:	1

Note 1:
Contractor to Field Verify Location of
16" Water Main and Fiber Optic Line
Prior to Driving Piles.



PLAN - NORTH WALL

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

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USER NAME	= madou00223
PLOT SCALE	= 0.1667' / 1" =
PLOT DATE	= 8/6/2019

DESIGNED	- KMS	REVIS	-
CHECKED	- RGC	REVIS	-
DRAWN	- EJM	REVIS	-
DATE	- 8/8/19	REVIS	-

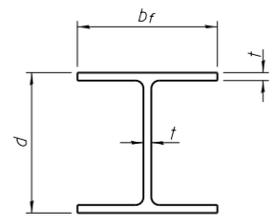
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KICKAPOO CREEK ROAD RETAINING WALL
PILE LAYOUT

SHEET NO. 7 OF 10 SHEETS

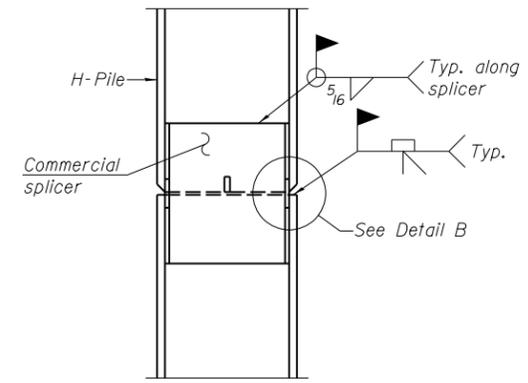
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	30
CONTRACT NO.			89748	

ILLINOIS FED. AID PROJECT

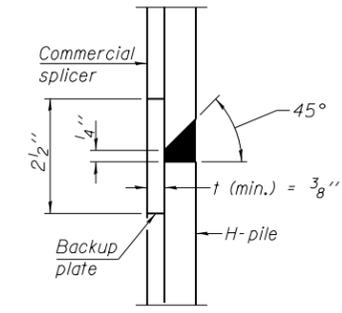


STEEL PILE TABLE

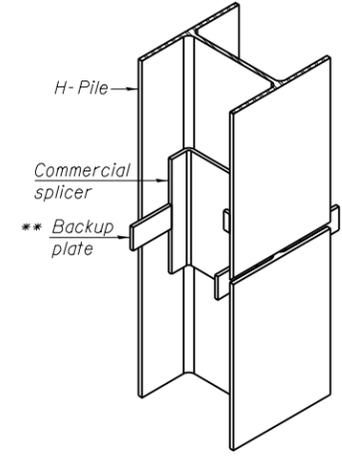
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 ¹ / ₄ "	14 ⁷ / ₈ "	1 ³ / ₁₆ "	30"
x102	14"	14 ³ / ₄ "	1 ¹ / ₁₆ "	30"
x89	13 ⁷ / ₈ "	14 ³ / ₄ "	5 ⁵ / ₈ "	30"
x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	1 ¹ / ₂ "	30"
HP 12x84	12 ¹ / ₄ "	12 ¹ / ₄ "	1 ¹ / ₁₆ "	24"
x74	12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



ELEVATION

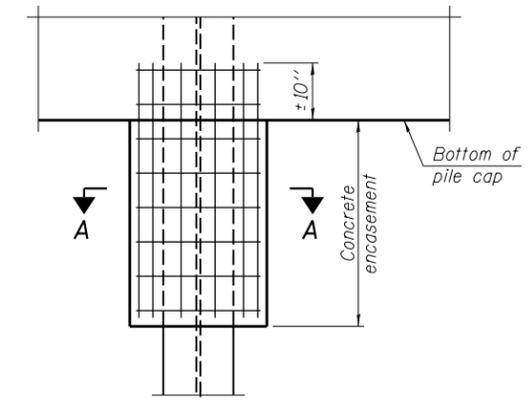


DETAIL "B"



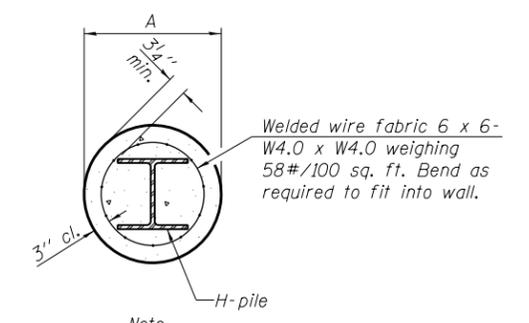
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



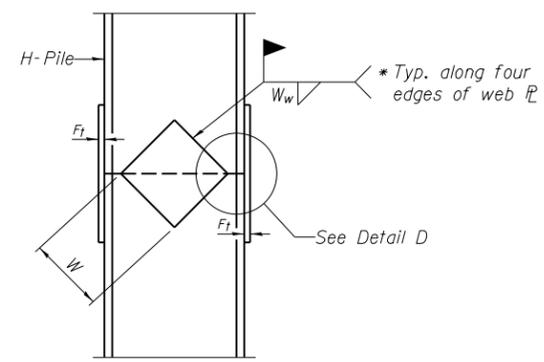
ELEVATION

PILE ENCASEMENT

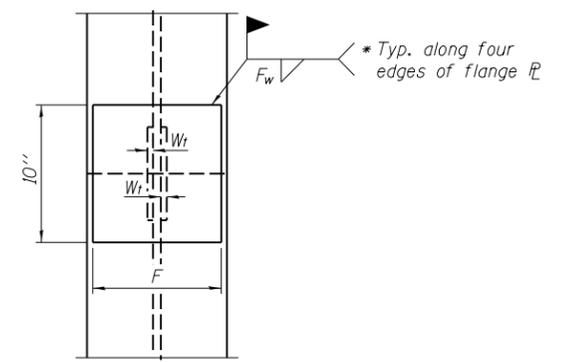


SECTION A-A

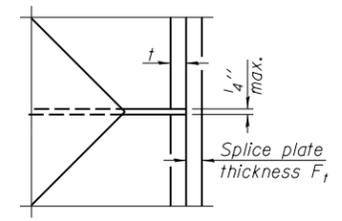
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



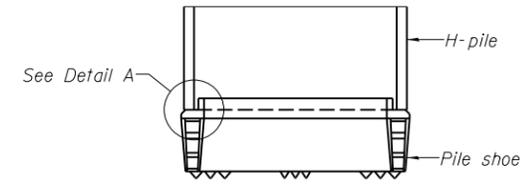
END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

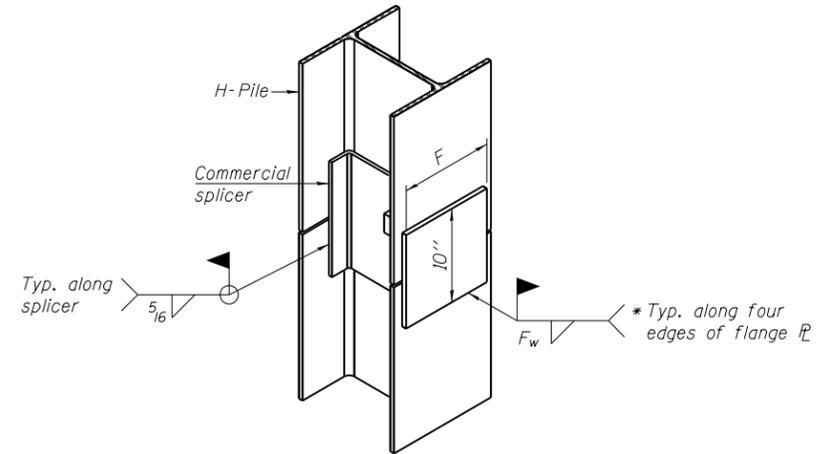
Designation	F	F _t	F _w	W	W _t	W _w
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x102	12 ¹ / ₂ "	7 ⁷ / ₈ "	3 ³ / ₄ "	7 ³ / ₄ "	5 ⁵ / ₈ "	1 ¹ / ₂ "
x89	12 ¹ / ₂ "	3 ³ / ₄ "	1 ¹ / ₁₆ "	7 ³ / ₄ "	5 ⁵ / ₈ "	1 ¹ / ₂ "
x73	12 ¹ / ₂ "	5 ⁵ / ₈ "	9 ⁹ / ₁₆ "	7 ³ / ₄ "	5 ⁵ / ₈ "	1 ¹ / ₂ "
HP 12x84	10"	7 ⁷ / ₈ "	1 ¹ / ₁₆ "	6 ¹ / ₂ "	5 ⁵ / ₈ "	1 ¹ / ₂ "
x74	10"	7 ⁷ / ₈ "	1 ¹ / ₁₆ "	6 ¹ / ₂ "	5 ⁵ / ₈ "	1 ¹ / ₂ "
x63	10"	5 ⁵ / ₈ "	1 ¹ / ₂ "	6 ¹ / ₂ "	1 ¹ / ₂ "	3 ³ / ₈ "
x53	10"	5 ⁵ / ₈ "	1 ¹ / ₂ "	6 ¹ / ₂ "	1 ¹ / ₂ "	3 ³ / ₈ "
HP 10x57	8"	3 ³ / ₄ "	9 ⁹ / ₁₆ "	5 ¹ / ₄ "	1 ¹ / ₂ "	3 ³ / ₈ "
x42	8"	5 ⁵ / ₈ "	9 ⁹ / ₁₆ "	5 ¹ / ₄ "	1 ¹ / ₂ "	3 ³ / ₈ "
HP 8x36	7"	5 ⁵ / ₈ "	7 ⁷ / ₁₆ "	4 ¹ / ₄ "	1 ¹ / ₂ "	3 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.

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

F-HP

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Type:
Nominal Required Bearing:
Factored Resistance Available:
Est. Length:
No. Production Piles:
No. Test Piles:



USER NAME	= madou00223	DESIGNED	- KMS	REVISED	-
PLOT SCALE	= 0.1667' / 1"	CHECKED	- RGC	REVISED	-
PLOT DATE	= 8/6/2019	DRAWN	- EJM	REVISED	-
		DATE	- 8/8/19	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD RETAINING WALL
HP PILE DETAILS**

SHEET NO. 8 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	31
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

B-4
Sta. 12+37, 32' RT
08/15/2017

Elevation	N	Qu	w%	Description
460.6				Hard brown SILTY LOAM
457.6	45	4.5+P	8	Very dense FRACTURED ROCK
454.6	16	9		Medium dense brown fine to medium SAND
449.6	6	0.75P	16	Medium stiff brown SILTY LOAM
447.6	15			Medium dense brown fine to medium SAND
444.6	2	0.5P	31	Soft dark brown SILTY LOAM
	2	0.5P	28	
437.6	DD Oh			Loose brown fine to medium SAND
432.6	27	12		Medium dense gray weathered SHALE
430.6				Bottom of Hole = 30.0 feet

B-5
Sta. 12+64, 25' RT
08/15/2017

Elevation	N	Qu	w%	Description
461.4	32	4.5+P	6	Hard to very stiff brown SILTY LOAM
455.4	18	3.0P	15	Medium stiff brown SILTY LOAM
450.4	8	0.75P	17	Soft dark brown SILTY LOAM
	6	0.75P	20	
438.4	DD Oh			Very loose brown fine to medium SAND
436.4	3	24		Medium dense brown fine to medium SAND
430.4	15			Dense gray weathered SHALE
426.4	50/5"	10		Bottom of Hole = 35.0 feet

B-3
Sta. 12+89, 9' RT
08/15/2017

Elevation	N	Qu	w%	Description
461.6				Asphalt Pavement
461.3				Aggregate Base
460.7	13			Medium dense brown fine to medium SAND
458.6	7	1.5P	15	Stiff dark brown SILTY LOAM
455.6	4	0.5P	20	Soft brown SILTY CLAY LOAM
	4	0.45B	23	
450.6	3	0.37B	19	Soft dark gray SILTY LOAM
448.6	5	0.5P	18	Soft dark brown SANDY LOAM
445.6	6	0.5P	29	Soft gray SILTY LOAM
443.6	4	0.5P	55	Soft dark gray SILTY LOAM, wood in sample
440.6	DD	2	0.25P	38
438.6	DD	2	23	Very loose gray fine SAND
436.6	2	25		Very loose gray sandy LOAM
	3	43		
428.6				Very dense gray weathered SHALE
426.6	50/4"	6		Very dense gray SHALE
416.6				Bottom of Hole = 45.0 feet

Rec. = 100%
RQD = 95%

LEGEND

N Standard Penetration Test N (blows/ft)

Qu Unconfined Strength (tsf)

w% Natural Moisture Content (%)

DD Water Surface Elevation Encountered in Boring

558.10 DD = during drilling

Oh = at completion

24h = 24 hours after completion

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

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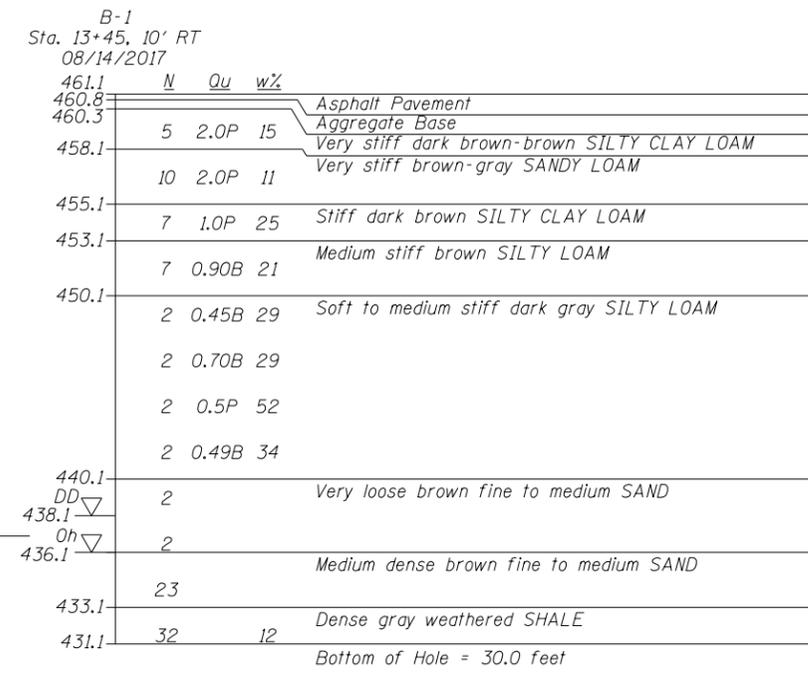
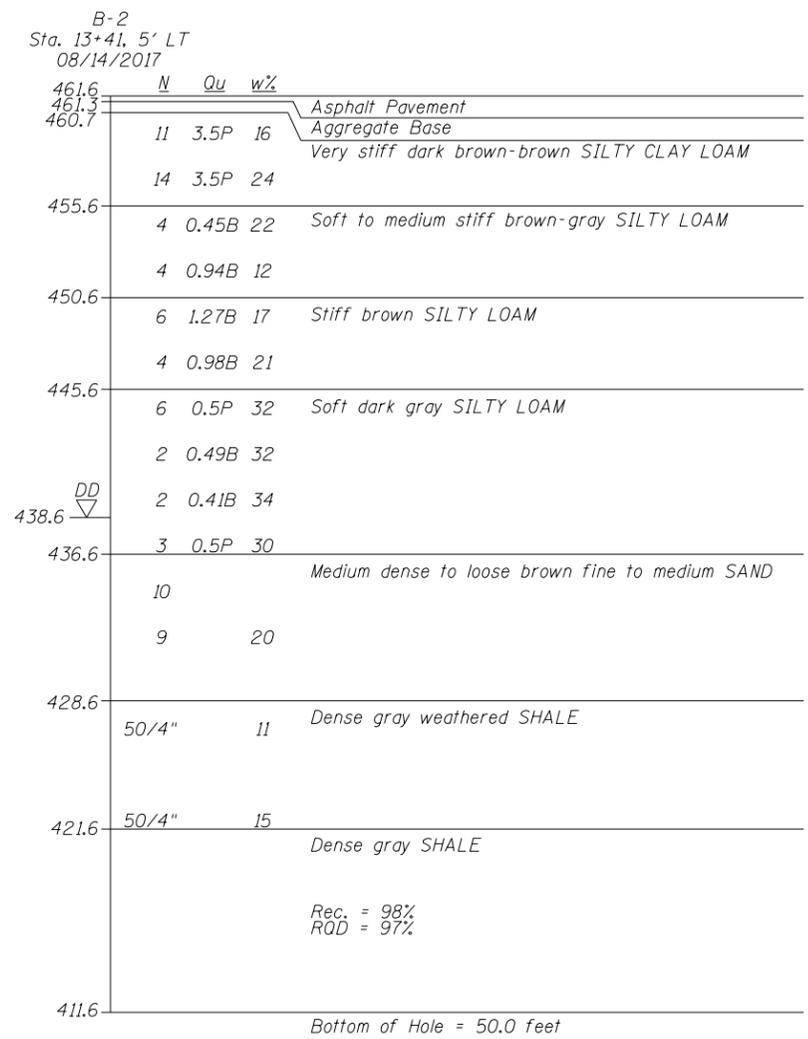
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PLOT DATE = 8/6/2019	DRAWN - EJM	REVISED -
	DATE - 8/8/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD RETAINING WALL
SUBSURFACE DATA PROFILE**

SHEET NO. 9 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	32
CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	



Bottom of Footing

LEGEND

- N Standard Penetration Test N (blows/ft)
- Qu Unconfined Strength (tsf)
- w% Natural Moisture Content (%)
- DD ▽ Water Surface Elevation Encountered in Boring
- 558.10 ▽ DD = during drilling
- Oh = at completion
- 24h = 24 hours after completion

DESIGNED	KMS	5/7/19
DRAWN	EJM	5/7/19
REVIEWED	RGC	8/5/19

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USER NAME = madou00223	DESIGNED - KMS	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - RGC	REVISED -
PLOT DATE = 8/6/2019	DRAWN - EJM	REVISED -
	DATE - 8/8/19	REVISED -

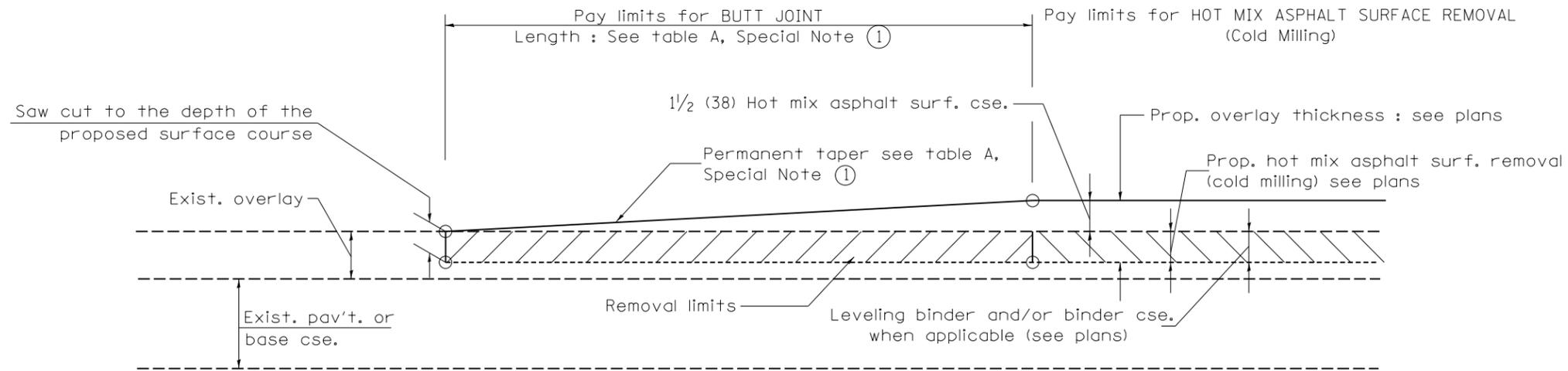
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD RETAINING WALL
SUBSURFACE DATA PROFILE**

SHEET NO. 10 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	33
CONTRACT NO. 89748				

ILLINOIS FED. AID PROJECT



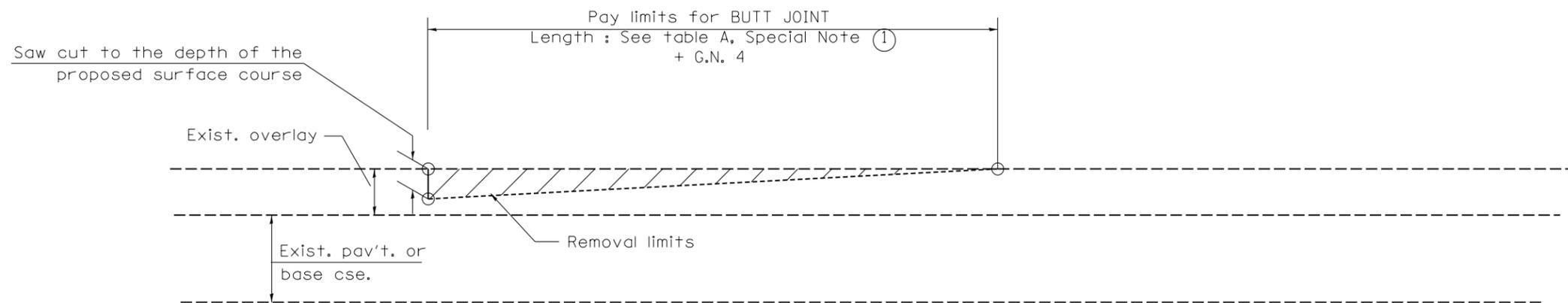
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

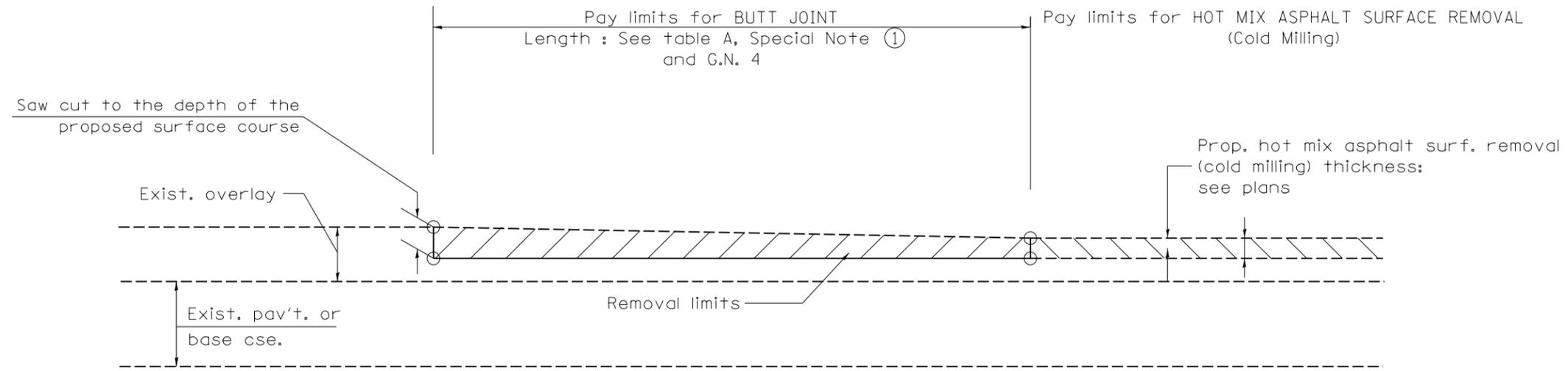
1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw 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.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



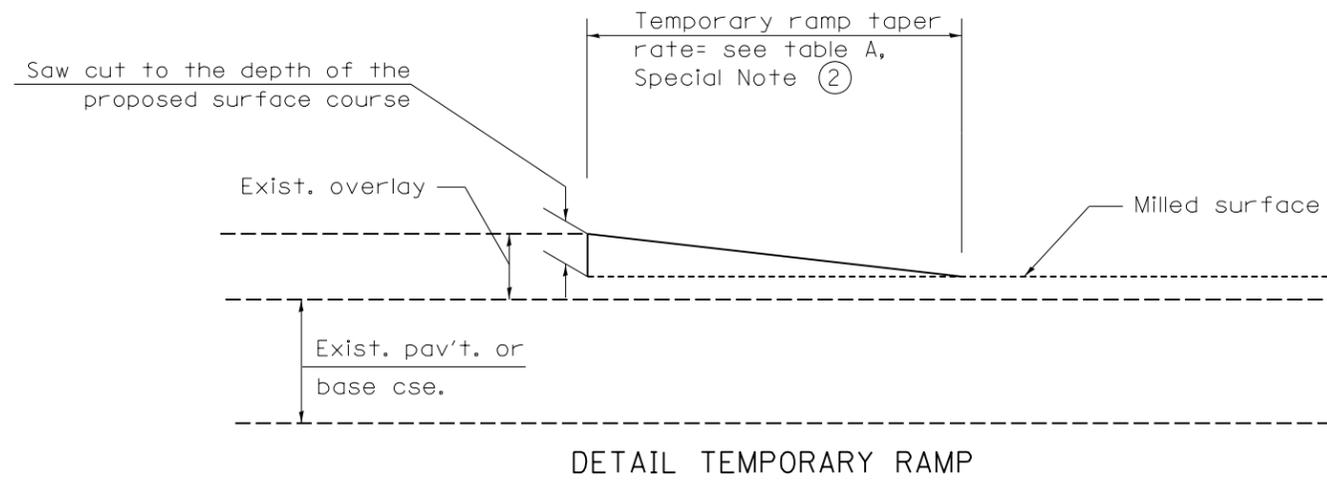
CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

LAYOUT
 DRAWN
 REVIEWED
 I:\16\jobs\16L0567\CAD\Road\Sheet\st-stander.dgn
 Default

FILE NAME =	USER NAME = Ander00846	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT CADD STD. 406101-D4		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000 / in.		CHECKED -	REVISED -				CONTRACT NO. 89748		ILLINOIS FED. AID PROJECT		
PLOT DATE = 8/7/2019		DATE - 8/8/19	REVISED -				SCALE: N/A	SHEET OF SHEETS	STA. TO STA.		



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



LAYOUT
DRAWN
REVIEWED

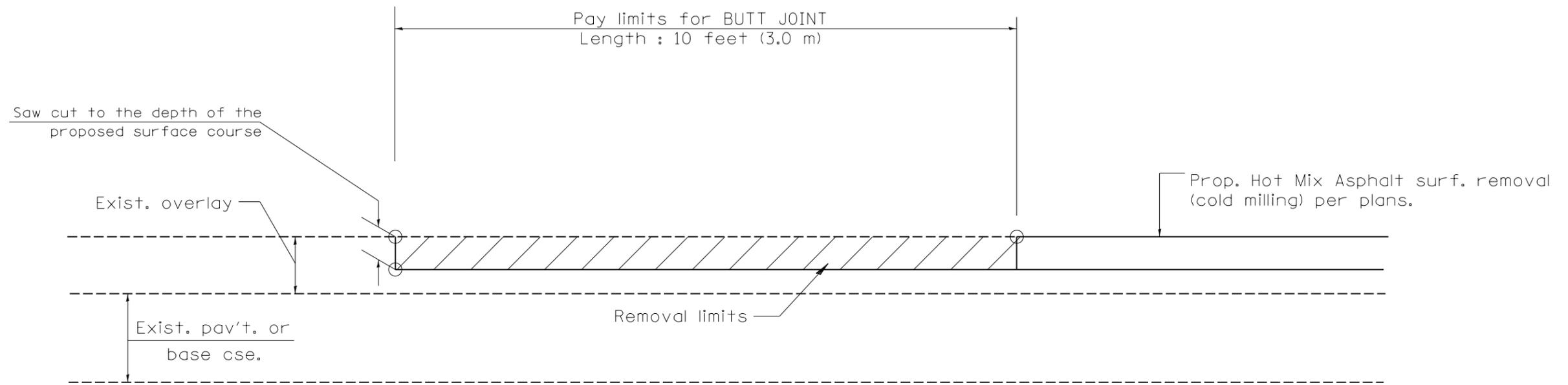
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT
CADD STD. 406101-D4

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	35
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

LAYOUT
 DRAWN
 REVIEWED
 I:\16\jobs\16_0056\CAD\Road\Sheet\shht-stander-d03.dgn

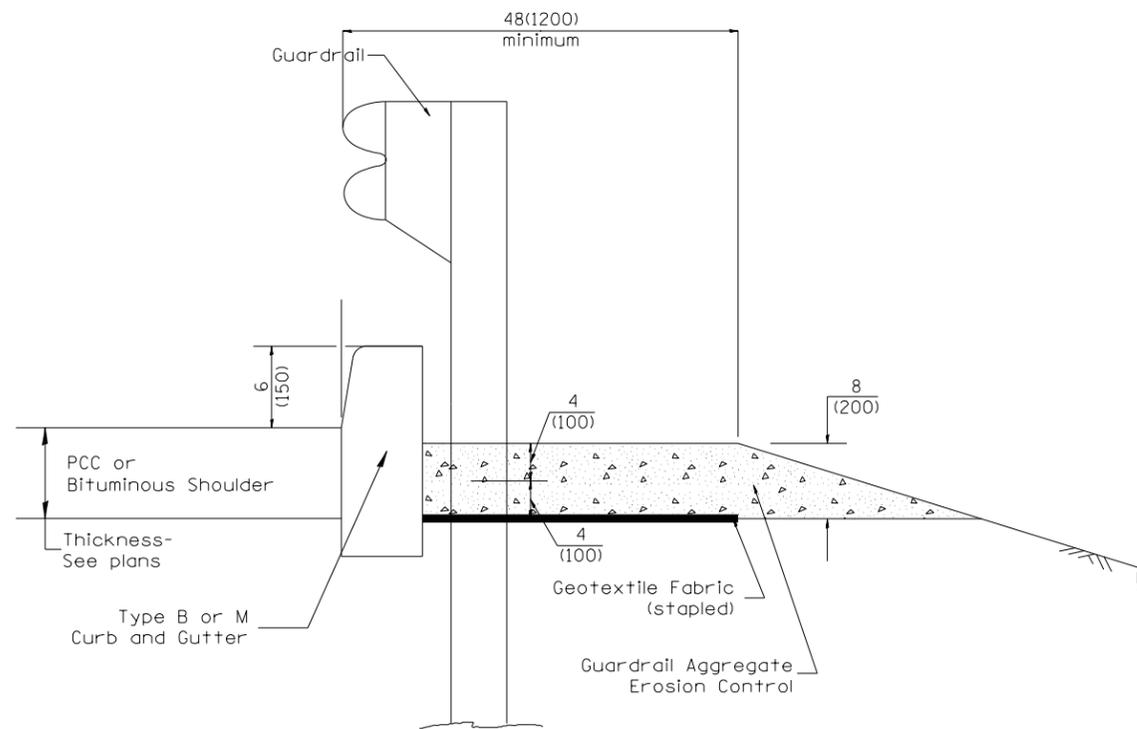
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PLOT DATE = 8/7/2019		DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

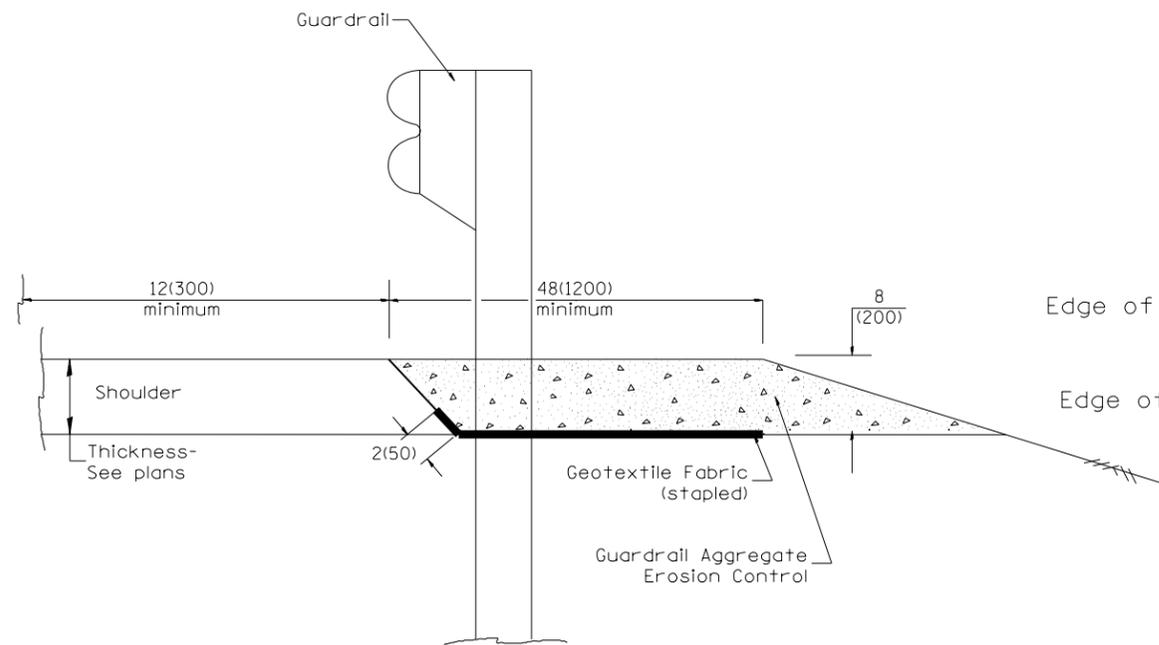
BUTT JOINT
CADD STD. 406101-D4

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	36
CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	



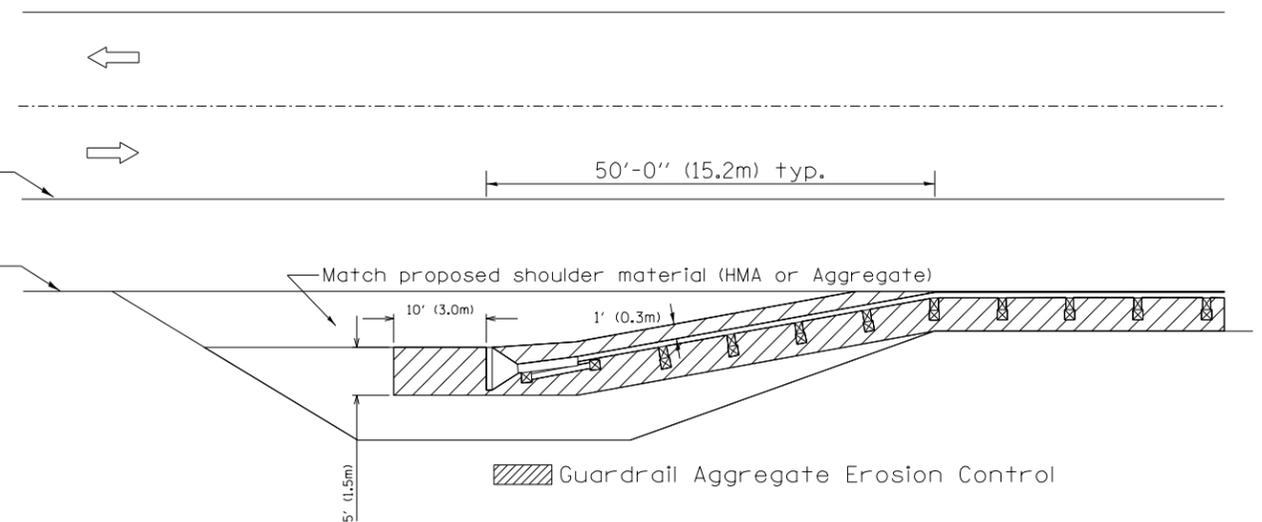
TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

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.



LAYOUT
 DRAWN
 REVIEWED
 Default

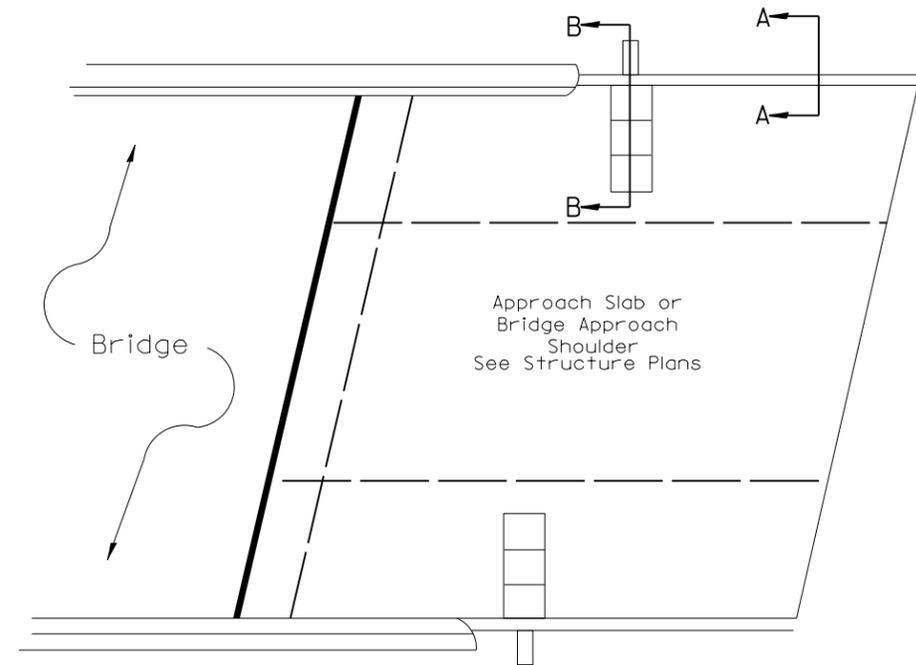
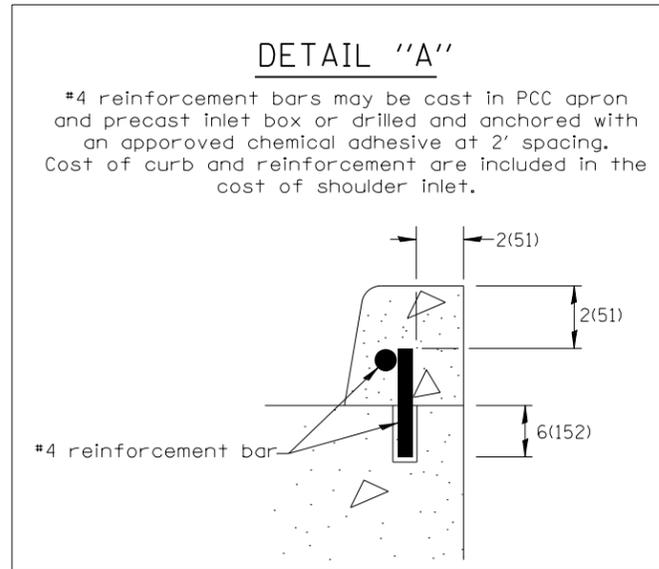
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PLOT SCALE = 10.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 8/7/2019		DATE = 8/8/19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

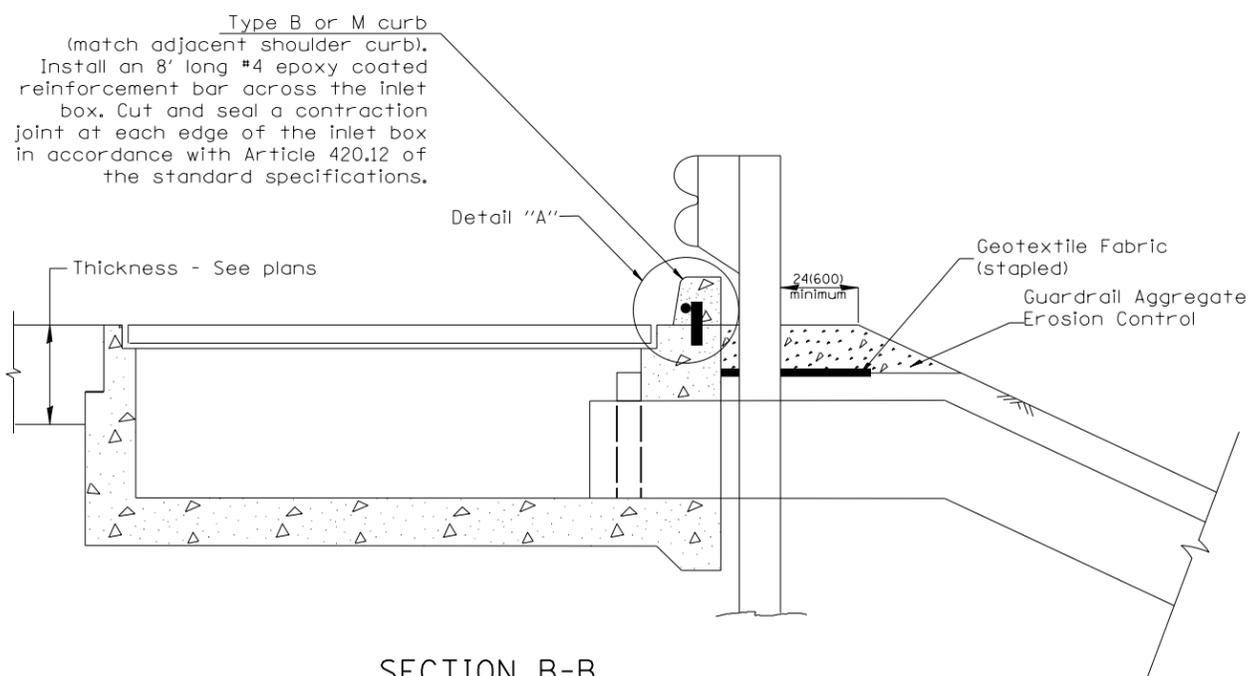
**GUARDRAIL EROSION CONTROL TREATMENTS
CADD STD. 630101-D4**

SCALE: N/A SHEET OF SHEETS STA. TO STA.

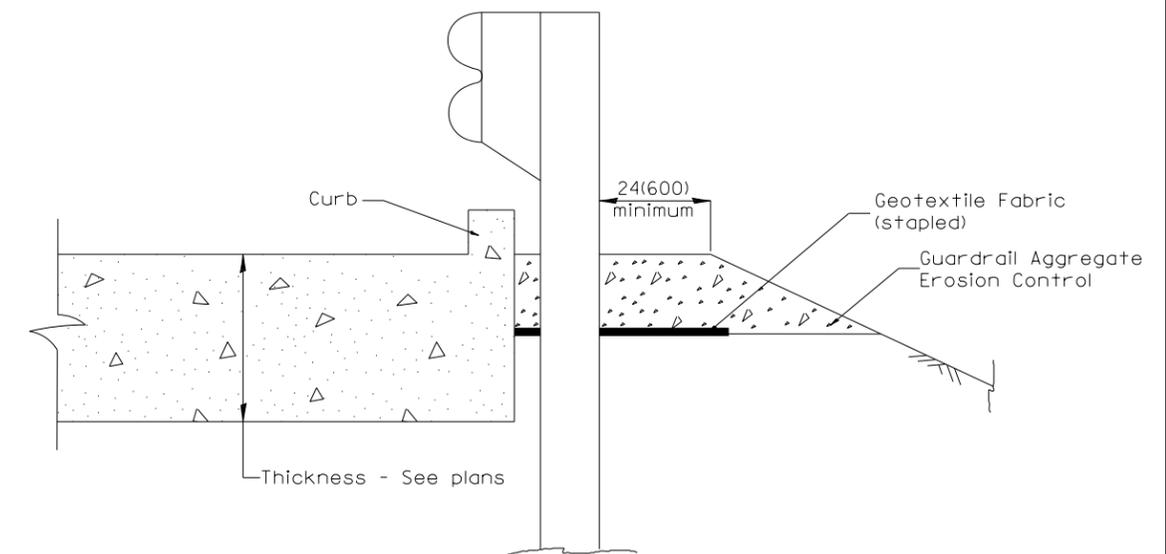
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	37
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

LAYOUT DRAWN REVIEWED

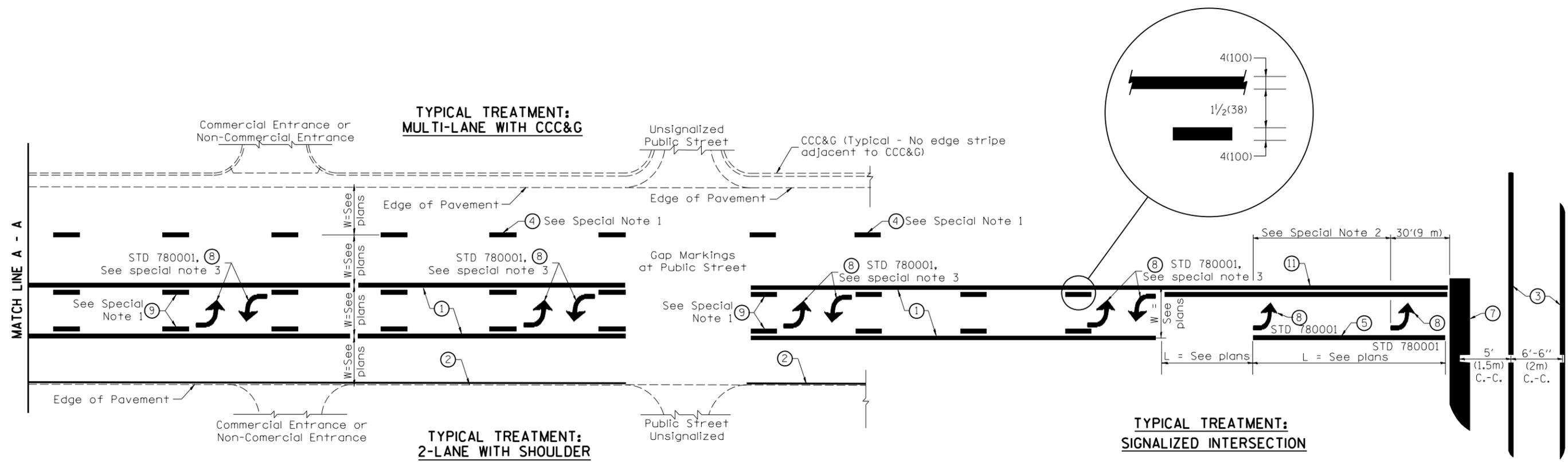
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Default	PLOT DATE = 8/7/2019	CHECKED -	REVISED -
		DATE - 8/8/19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
CADD STD. 630101-D4

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	38
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				



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.

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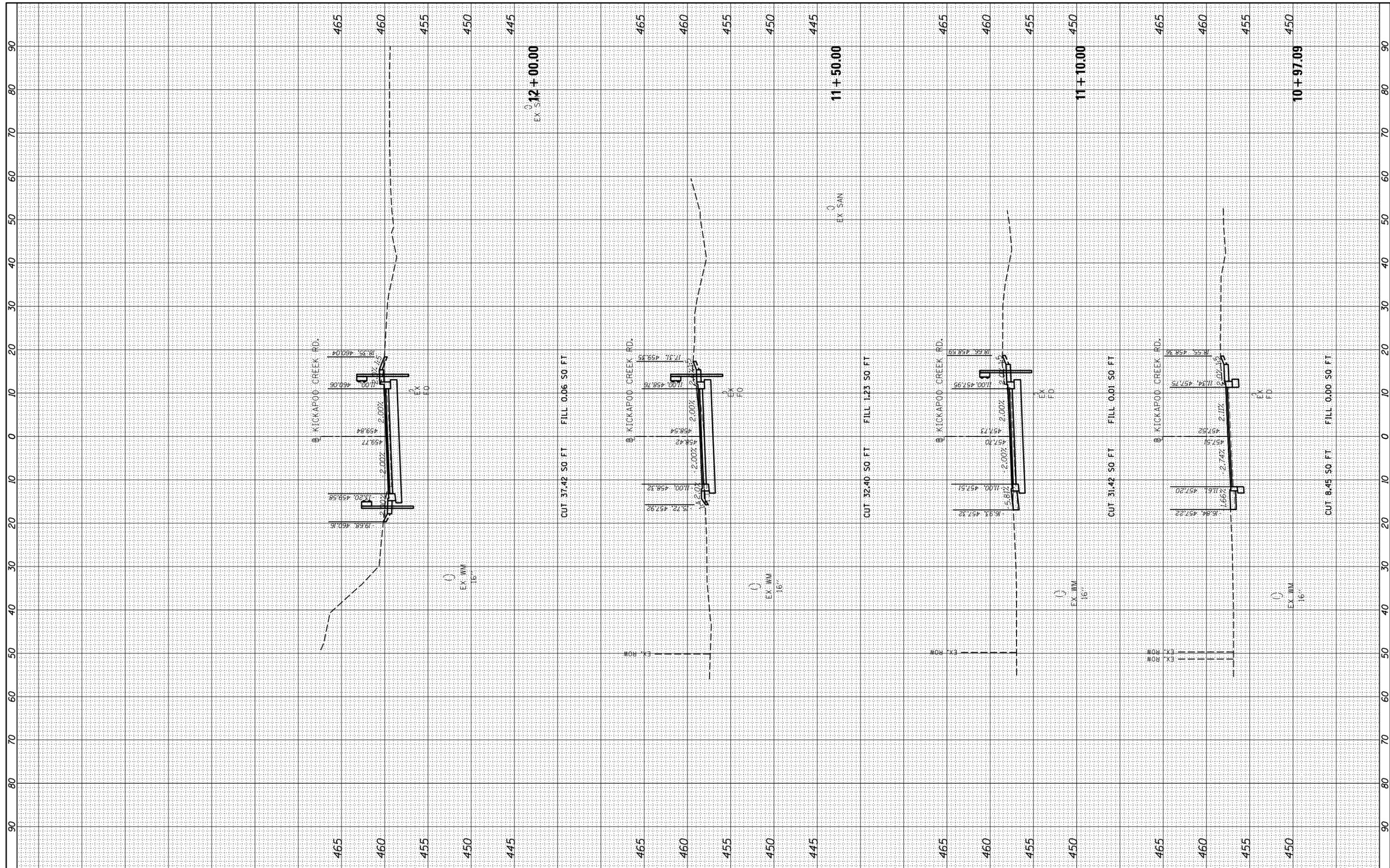
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Default	PLOT DATE = 8/7/2019	CHECKED -	REVISED -				CONTRACT NO. 89748			ILLINOIS FED. AID PROJECT	
		DATE = 8/8/19	REVISED -				SCALE: N/A	SHEET OF SHEETS	STA. TO STA.		

FINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/17/19
REVIEWED	MGD	8/8/19



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USER NAME = Ander-00846

DESIGNED - BAB
 DRAWN - RLA
 CHECKED - MGD
 DATE - 8/8/19

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

KICKAPOO CREEK ROAD
 CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 10+98.00 TO STA. 12+00.00

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	41
CONTRACT NO.			89748	

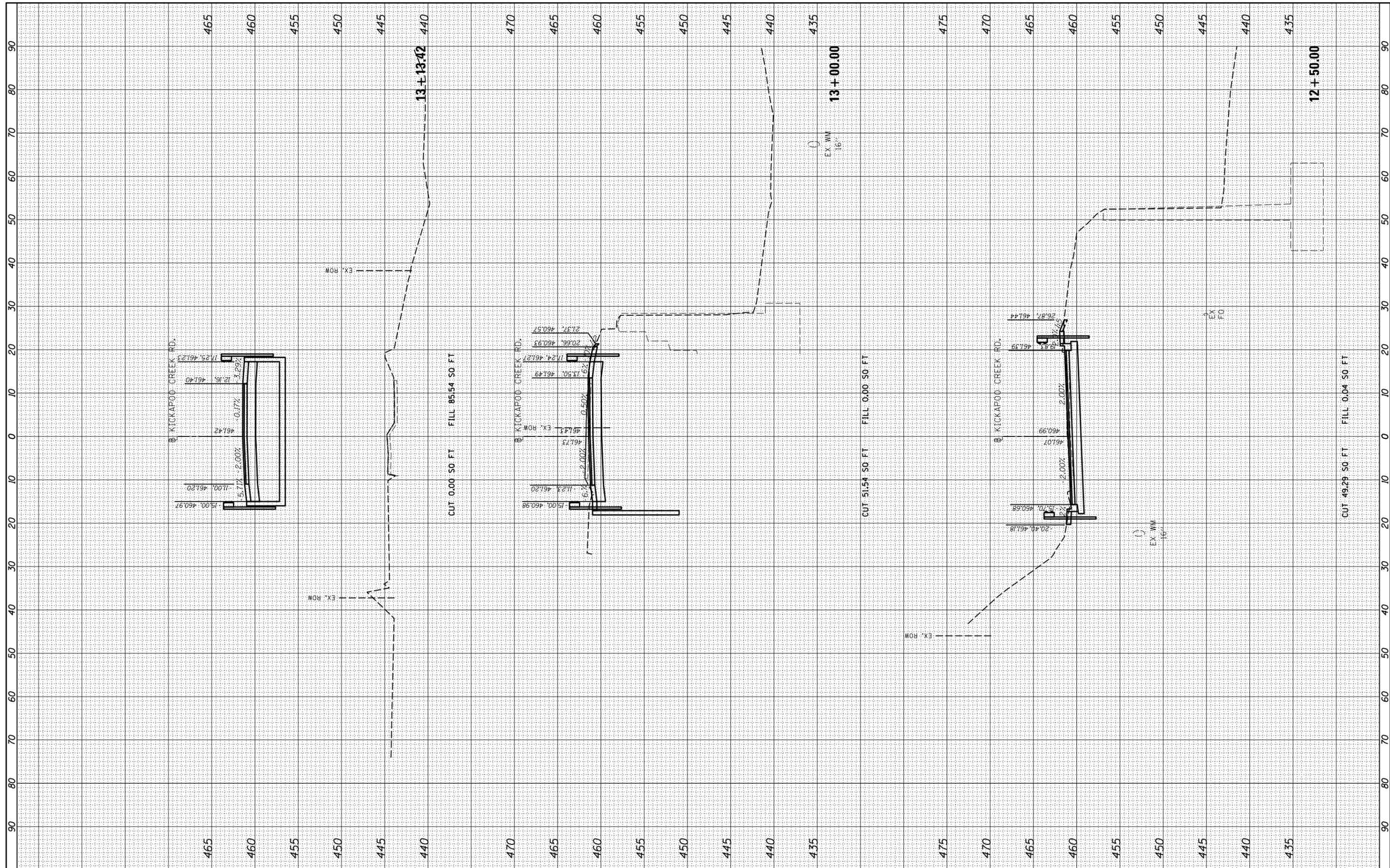
ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

LAYOUT	BAB	5/17/19
DRAWN	RLA	5/14/19
REVIEWED	MGD	8/8/19



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PLOT DATE = 8/7/2019	CHECKED - MGD	REVISIED -
	DATE - 8/8/19	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KICKAPOO CREEK ROAD
CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 12+50.00 TO STA. 13+13.42

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6576	16-00006-00-BR	PEORIA	44	42
CONTRACT NO.			89748	
ILLINOIS FED. AID PROJECT				

