

1-17-14 LETTING ITEM 123

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STANDARDS, SEE SHEET NO. 2

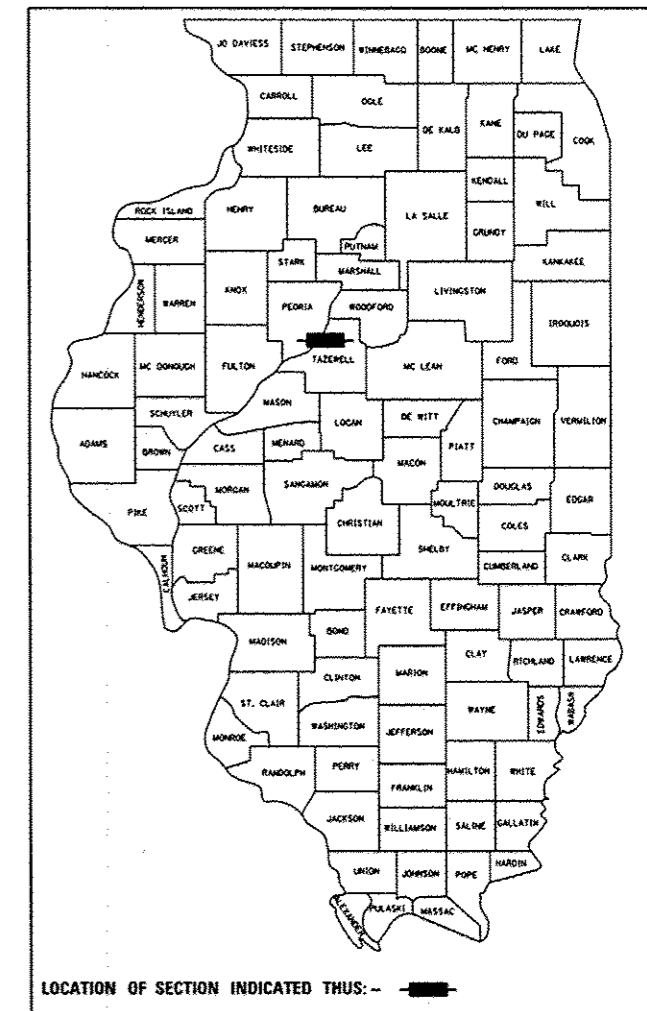
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6759	07-00176-00-BR	TAZEWELL	30	1
		ILLINOIS	CONTRACT NO. 89496	

PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT

FAU ROUTE 6759 (SHERIDAN ROAD) OVER LICK CREEK
SECTION 07-00176-00-BR
PROJECT M-5093 (132)
TAZEWELL COUNTY
C-94-049-08

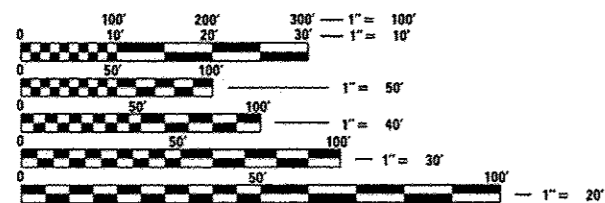
STRUCTURE REPLACEMENT AND ROADWAY IMPROVEMENTS
ON FAU 6759 (SHERIDAN ROAD) OVER LICK CREEK



PREPARED BY:

MAURER-STUTZ
ENGINEERS SURVEYORS

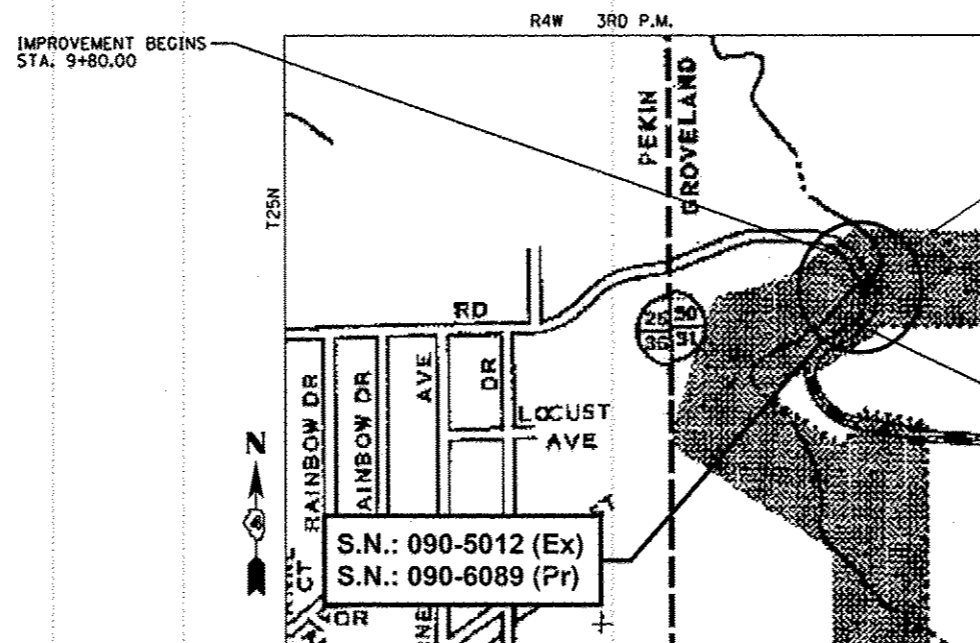
3116 N. DRIES LN, STE. 100
PEORIA, ILLINOIS 61604
TEL 309-693-7615
FAX 309-693-7616
PROFESSIONAL DESIGN FIRM #184-005754
CONTACT: RICK ANDERSON



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

CONTRACT NO. 89496



REPLACEMENT OF TRIPLE LIVE
LOAD BOX CULVERT CARRYING
SHERIDAN ROAD OVER LICK CREEK
WITH A LOW PROFILE ARCH
EXIST. S.N. 090-5012
PROP. S.N. 090-6089
@ STA. 15+07.62

IMPROVEMENT ENDS
STA. 16+52.00

MAP SCALE: 1" = 1015'

LOCATION MAP

GROSS LENGTH = 672.00 FT. = 0.13 MILE
NET LENGTH = 213.98 FT. = 0.04 MILE
ADT: 1600 (2010)
HIGHWAY CLASSIFICATION: MINOR ARTERIAL
DESIGN SPEED: 35 MPH
POSTED SPEED: 35 MPH
DESIGN GUIDELINES: URBAN (BLRS MANUAL CHAPTER 32)
VARIANCES: SEE SHEET 2
COMMITMENTS: SEE SHEET 2

ENGINEER SIGNATURE **MAURER-STUTZ**
ENGINEERS SURVEYORS

George B. Merkle
GEORGE B. MERKLE, P.E. DATE
IL. REG. NO. 062-042917
EXP. DATE 11/30/2013

APPROVED *Joseph W. ...* 2013
CITY OF PEKIN

PASSED *...* 10-25-2013
DISTRICT FOUR ENGINEER OF
LOCAL ROADS AND STREETS

RELEASING FOR
BID BASED ON
LIMITED REVIEW *...* 2013
DEPUTY DIRECTOR OF HIGHWAYS,
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-04	INLET - TYPE A
602401-03	MANHOLE - TYPE A
604051-03	FRAME AND GRATE - TYPE 11
606001-05	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-02	TRAFFIC CONTROL DEVICES
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

1. THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2013 SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.
2. 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.
3. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.
4. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	STA. 13+58.43 TO STA 14+81.86 STA. 15+33.36 TO STA 15+73.63	
MIXTURE USE(S):	POLYMERIZED HOT-MIX-ASPHALT SURFACE COURSE	POLYMERIZED HOT-MIX-ASPHALT BINDER COURSE
PG:	SBS PG 64-28	PG 64-28
DESIGN AIR VOIDS:	4.0% @ N _{DESIGN} = 50	4.0% @ N _{DESIGN} = 50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5 OR 12.5	IL-19.0
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	112 LBS/SQ YD/INCH	112 LBS/SQ YD/INCH

5. ALL STATION CALLOUTS ARE BASED ON AHEAD STATIONING OF THE STATION EQUATION.
6. 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:
 - BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
 - A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
 - SIGNED PROPERTY OWNER AGREEMENT FORM - D4 PI0100
 - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
 - BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

ESTIMATED COMPLETION DATE		COMMITMENTS
PRIOR TO CONSTRUCTION	1.	COUNTRY CLUB DRIVE WILL BE SIGNED AS "LOCAL TRAFFIC ONLY" AND "NO CONSTRUCTION TRAFFIC" TO REDUCE CUT THROUGH TRAFFIC.
PRIOR TO CONSTRUCTION	2.	ALL EMERGENCY, SCHOOL AND POSTAL SERVICES WILL BE NOTIFIED TWO WEEKS BEFORE CONSTRUCTION BEGINS.
APPROVED 12/19/2011	3.	THERE WILL BE EROSION PROTECTION FROM THE CONSTRUCTION ACTIVITIES FOR THE SURROUNDING PARK PROPERTY AND DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE. AN EROSION CONTROL PLAN WILL BE DEVELOPED AND SUBMITTED FOR REVIEW.
DURING CONSTRUCTION	4.	WARNING SIGNS IN ACCORDANCE WITH THE MUTCD WILL BE INSTALLED AT THE CURVES.
PRELIMINARY (9/20/12) FINAL (8/28/13)	5.	THE INPC WILL BE INCLUDED IN THE REVIEW OF THE CONSTRUCTION PLANS PRIOR TO LETTING.
SPRING 2014	6.	REGISTERED RESERVE AREA DIRECTLY IMPACTED: 0.06 ACRES WITH MITIGATION BEING \$5,000 TO FUND TIMBER STAND IMPROVEMENT AND A PRESCRIBED BURN WITHIN A LIMITED PORTION OF UPLAND FOREST AT DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE.
SPRING 2014	7.	THREE (3) TREES GREATER THAN 6 INCHES DBH AND NUMEROUS SHRUBS AND HERBACEOUS SPECIES REMOVED OUTSIDE OF THE EXISTING PRESCRIPTIVE-USE ROADWAY WITH MITIGATION BEING 100 RPM TREES (WITH EARTH MATS, FERTILIZER AND TREE GUARDS) PLANTED WITHIN THE REGISTERED RESERVE AT EXISTING REFORESTATION AREAS NOTED FOR POOR SURVIVAL DURING RECENT EFFORTS AND AT RESERVE BOUNDARY AREAS WHERE THERE HAVE BEEN ENCROACHMENTS. ESTIMATED COST AT \$1,667.
PRIOR TO CONSTRUCTION	8.	TWO (2) SAND BAR WETLANDS (0.05 ACRES) WITHIN THE CREEK DIRECTLY IMPACTED WITH MITIGATION BEING TO CLAIM 0.275 ACRES (5.5 TO 1 RATIO) FROM THE LAGRANGE WETLAND BANK. CURRENT VALUED AT \$15,000/ACRE OR \$4,125.
APPROVED 12/19/2011	9.	FINAL RIPRAP DESIGN TO BE USED SHALL BE SUBMITTED TO THE INPC FOR REVIEW.

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

DESIGN VARIANCES (APPROVED ON 7/1/2011):

1. THE WIDTH BETWEEN THE CURB & GUTTERS (FACE-TO-FACE) WILL BE REDUCED FROM 30' TO 26' TO REDUCE IMPACTS TO DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE.
2. THE EXISTING CURVE RADII ON THE WEST AND EAST APPROACHES WILL BE ALLOWED TO REMAIN AS-IS TO REDUCE IMPACTS TO DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE. BASED ON EXISTING GEOMETRY, SLOWER SPEEDS ARE ANTICIPATED.
3. THE EXISTING NORMAL CROWN ON THE WEST AND EAST APPROACHES WILL BE ALLOWED TO REMAIN AS-IS TO REDUCE IMPACTS TO DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE. BASED ON EXISTING GEOMETRY, SLOWER SPEEDS ARE ANTICIPATED.
4. THE FORESLOPES WILL BE REDUCED FROM 1V:3H TO 1V:2H TO REDUCE IMPACTS TO DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE. PROPOSED 1V:2H SLOPES WILL BE PROTECTED BY GUARDRAIL.
5. THE SHELVE BEHIND THE CURB AND GUTTER WILL BE REDUCED FROM 10' TO 2' ON THE SIDE WITHOUT THE SIDEWALK (WEST SIDE) AND FROM 10' TO 8' ON THE SIDE WITH THE SIDEWALK (EAST SIDE) TO REDUCE IMPACTS TO DIRKSEN-MCNAUGHTON WOODS LAND AND WATER RESERVE.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

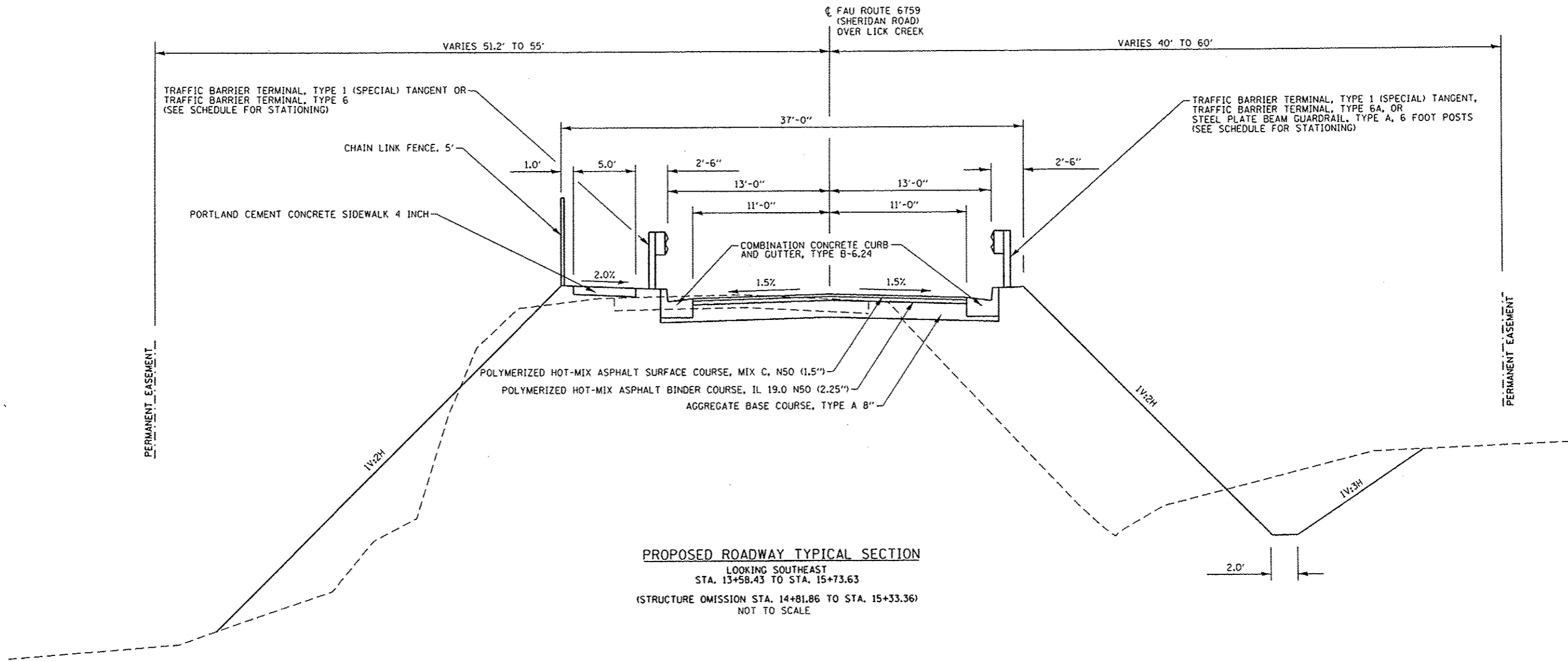
NUTRIENTS	90 LBS/ACRE
POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	0.5 GAL/SY ON GRANULAR BASE

SUMMARY OF QUANTITIES				ROADWAY FAU 6759 (SHERIDAN RD.)	STRUCTURE SN 090-6089
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	BRIDGE 0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	108	108	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	62	62	
20200100	EARTH EXCAVATION	CU YD	177	177	
20200200	ROCK EXCAVATION	CU YD	15	15	
20300100	CHANNEL EXCAVATION	CU YD	275	275	
20400800	FURNISHED EXCAVATION	CU YD	243	243	
20800150	TRENCH BACKFILL	CU YD	7	7	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	747	747	
25000300	SEEDING, CLASS 3	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	22.5	22.5	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	22.5	22.5	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	22.5	22.5	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1094	1,094	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	30	30	
28000400	PERIMETER EROSION BARRIER	FOOT	323	323	
28100107	STONE RIPRAP, CLASS A4	SQ YD	492	43	449
28200200	FILTER FABRIC	SQ YD	492	43	449
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	394	394	
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	197.0	197	
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	67.0	67	
40603510	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	33	33	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	1044	1044	
44000100	PAVEMENT REMOVAL	SQ YD	392	392	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	41		41
50300225	CONCRETE STRUCTURES	CU YD	134.3		134.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	63.6		63.6
50300285	FORM LINER TEXTURED SURFACE	SQ FT	1940		1940
50800105	REINFORCEMENT BARS	POUND	9870		9870
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	12440		12440
50900200	* STEEL RAILING, TYPE 2399	FOOT	52		52
50901720	* BICYCLE RAILING	FOOT	46		46
51500100	NAMES PLATES	EACH	1		1

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES				ROADWAY FAU 6759 (SHERIDAN RD.)	STRUCTURE SN 090-6089
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				ROADWAY 0004	BRIDGE 0011
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	105	105	
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3	3	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	360	360	
63000001	* STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	62.5	62.5	
63100085	* TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2	
63100087	* TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2	
63100167	* TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
66400205	* CHAIN LINK FENCE, 5'	FOOT	139	139	
67100100	MOBILIZATION	L SUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	52	52	
72900100	METAL POST - TYPE A	FOOT	174	174	
78001110	* PAINT PAVEMENT MARKING - LINE 4"	FOOT	428	428	
78200410	* GUARDRAIL MARKERS, TYPE A	EACH	16	16	
78201000	* TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X2800520	ABOVE GRADE INLET FILTERS	EACH	4	4	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	670		670
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	76		76
54110383	CORRUGATED STRUCTURAL PLATE ARCHES, 383 SQ. FT.	FOOT	39		39

* SPECIALTY ITEMS



NOTE:
SEE SHEET 29 FOR SLOPE STEPS DETAIL.

FILE NAME * S:\237\2009\2370900\1\SheridanRdBridgePh	USER NAME * bathier CADD\CADD Sheets\0409801-sh-typicaL.dgn	DESIGNED -	REVISED -		SHERIDAN ROAD OVER LICK CREEK			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE * 40.0000' / in.	DRAWN -	REVISED -		TYPICAL SECTION			6759	07-00176-00-BR	TAZEWELL	30	4
	PLOT DATE * 10/10/2013	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 89496		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNIT
STA. 13+90.11, 29.6' LT	8
STA. 14+47.38, 28.4' LT	14
STA. 14+55.05, 26.8' LT	12
STA. 14+57.61, 31.1' LT	8
STA. 14+62.87, 32.8' LT	14
STA. 14+64.29, 33.6' LT	12
STA. 14+65.18, 32.4' RT	12
STA. 14+66.32, 31.8' LT	14
STA. 14+80.84, 42.5' RT	14
TOTAL	108

21101615 TOPSOIL FURNISH AND PLACE, 4"	
LOCATION	SQ YD
STA. 13+58.43 TO STA. 14+81.51, LT	218.77
STA. 13+58.43 TO STA. 14+90.89, RT	335.34
BRIDGE OMISSION	
STA. 15+22.73 TO STA. 15+73.63, LT	127.52
STA. 15+31.88 TO STA. 15+73.63, RT	65.64
TOTAL	747

28000400 PERIMETER EROSION BARRIER	
LOCATION	FOOT
STA. 13+58.00, 20' TO STA. 14+60.00, 50' LT	118.1
STA. 13+58.00, 21' TO STA. 14+75.00, 47' RT	138.1
STA. 15+41.00, 54' TO STA. 15+74.00, 19' LT	53.5
STA. 15+63.00, 35' TO STA. 15+75.00, 24' RT	13.6
TOTAL	323

40600115 POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	
LOCATION	GAL
ON AGGREGATE BASE	
STA. 13+58.43 TO STA. 14+87.00	149.89
STA. 15+28.24 TO STA. 15+73.63	47.10
TOTAL	197

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNIT
STA. 14+69.61, 38.7' RT	16
STA. 15+55.92, 22.8' LT	16
STA. 15+75.44 R 2, 25.8' LT	30
TOTAL	62

25100635 HEAVY DUTY EROSION CONTROL BLANKET	
LOCATION	SQ YD
STA. 13+58.43 TO STA. 14+81.51, LT	270.85
STA. 13+58.43 TO STA. 14+90.89, RT	606.01
STA. 15+22.73 TO STA. 15+73.63, LT	142.99
STA. 15+31.88 TO STA. 15+73.63, RT	74.30
TOTAL	1,094

X2800520 ABOVE GRADE INLET FILTERS	
LOCATION	EACH
STA. 13+74.51, 11.02' LT	1
STA. 13+75.13, 12.18' RT	1
STA. 15+70.13, 11.91' LT	1
STA. 15+69.65, 11.64' RT	1
TOTAL	4

40603510 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	
LOCATION	TON
STA. 13+58.43 TO STA. 14+87.00	25
STA. 15+28.24 TO STA. 15+73.63	8
TOTAL	33

20300100 CHANNEL EXCAVATION	
LOCATION	CU YD
IN CHANNEL	275
TOTAL	275

28000250 TEMPORARY EROSION CONTROL SEEDING	
LOCATION	POUND
ENTIRE PROJECT	100
TOTAL	100

28100107 STONE RIPRAP, CLASS A4	
LOCATION	SQ YD
DITCH	
STA. 13+75.00 TO STA. 13+95.30, RT	22.7
STA. 13+95.30 TO STA. 14+02.23, RT	5.5
STA. 14+02.23 TO STA. 14+09.90, RT	9.6
STA. 15+58.23 TO STA. 15+62.49, RT	5.3
BRIDGE	449.0
TOTAL	492

40603230 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL. 19.0, N50	
LOCATION	TON
STA. 14+76.86 TO STA. 14+81.86	8.5
STA. 15+33.36 TO STA. 15+38.36	8.5
STA. 13+58.43 TO STA. 14+87.00	37.8
STA. 15+28.24 TO STA. 15+73.63	11.9
TOTAL	67

20200200 ROCK EXCAVATION	
LOCATION	CU YD
IN CHANNEL	15
TOTAL	15

28000305 TEMPORARY DITCH CHECKS	
LOCATION	FOOT
STA. 14+20.00, 36.5' RT	15
STA. 14+60.00, 36' RT	15
TOTAL	30

28200200 FILTER FABRIC	
LOCATION	SQ YD
DITCH	
STA. 13+75.00 TO STA. 13+95.30, RT	22.7
STA. 13+95.30 TO STA. 14+02.23, RT	5.5
STA. 14+02.23 TO STA. 14+09.90, RT	9.6
STA. 15+58.23 TO STA. 15+62.49, RT	5.3
BRIDGE	449.0
TOTAL	492

44000100 PAVEMENT REMOVAL	
LOCATION	SQ YD
STA. 13+58.43 TO STA. 14+87.00	291.8
STA. 15+28.24 TO STA. 15+73.63	100.3
TOTAL	392

LOCATION	20200100 EARTH EXCAVATION CU YD	20400800 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) CU YD	EMBANKMENT CU YD	20400800 FURNISHED EXCAVATION CU YD
STA. TO STA.				
STA. 13+58.43 TO STA. 14+87.00	153.26	110.03	286.59	176.56
STA. 15+28.24 TO STA. 15+73.63	23.89	16.19	82.24	66.05
TOTAL	177	126.22	368.83	243
ROUNDED TOTAL	177			243

35100700 AGGREGATE BASE COURSE, TYPE A 8"	
LOCATION	SQ YD
STA. 13+58.43 TO STA. 14+87.00	300
STA. 15+28.24 TO STA. 15+73.63	94
TOTAL	394

550A0050 STORM SEWERS, CLASS A, TYPE 1 12"	
LOCATION	FOOT
STA. 13+75.00 (ACROSS ROADWAY)	23.6
STA. 13+75.38, 12.67' RT TO STA. 13+96.84, 43.91' RT	36.8
STA. 15+69.98 (ACROSS ROADWAY)	23.6
STA. 15+69.73, 11.61 RT TO STA. 15+62.49, 31.02' RT	20.8
TOTAL	105

LOCATION	25000300 SEEDING, CLASS 3 ACRE	25000400 NITROGEN FERTILIZER NUTRIENT POUND	25000500 PHOSPHORUS FERTILIZER NUTRIENT POUND	25000600 POTASSIUM FERTILIZER NUTRIENT POUND
STA. 13+58.43 TO STA. 14+81.51, LT	0.05	4.5	4.5	4.5
STA. 13+58.43 TO STA. 14+90.89, RT	0.07	6.3	6.3	6.3
BRIDGE OMISSION				
STA. 15+22.73 TO STA. 15+73.63, LT	0.03	2.7	2.7	2.7
STA. 15+31.88 TO STA. 15+73.63, RT	0.02	1.8	1.8	1.8
TOTAL	0.17	15.3	15.3	15.3
ROUNDED TOTAL	0.25	22.5	22.5	22.5

20800150 TRENCH BACKFILL	
LOCATION	CU YD
STA. 13+74.51 (ACROSS RD)	2.97
STA. 13+75.13 TO 2' BEYOND CURB	0.27
STA. 15+70.13 (ACROSS RD)	3.42
STA. 15+69.65 TO 2' BEYOND CURB	0.63
TOTAL	7.3

54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	
LOCATION	EACH
STA. 13+96.84, 43.91' RT	1
STA. 15+62.49, 31.02' RT	1
TOTAL	2

42400100 PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	
LOCATION	SQ FT
STA. 13+75.00 TO STA. 15+60.00	1044
TOTAL	1044

NOTE
ALL STATION CALLOUTS ARE BASED ON
AHEAD STATIONING OF THE STATION EQUATION.

60236800 INLETS, TYPE A, TYPE 11 FRAME AND GRATE	
LOCATION	EACH
STA. 13+74.51, 11.02' LT	1
STA. 13+75.13, 12.18' RT	1
STA. 15+70.13, 11.91' LT	1
TOTAL	3

78200410 GUARDRAIL MARKERS, TYPE A	
LOCATION	EACH
STA. 13+85.36 TO STA. 14+78.38, LT	4
STA. 13+25.69 TO STA. 14+85.35, RT	4
STA. 15+29.88 TO STA. 16+13.34, LT	4
STA. 15+36.84 TO STA. 16+41.48, RT	4
TOTAL	16

60219300 MANHOLE, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	
LOCATION	EACH
STA. 15+69.65, 11.64' RT	1
TOTAL	1

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	
LOCATION	FOOT
STA. 13+58.43 TO STA. 14+83.52, LT	126.9
STA. 13+58.43 TO STA. 14+90.49, RT	130.2
STA. 15+24.76 TO STA. 15+80.08, LT	57.9
STA. 15+31.72 TO STA. 15+81.26, RT	44.5
TOTAL	360

78201000 TERMINAL MARKER-DIRECT APPLIED	
LOCATION	EACH
STA. 13+85.36, LT	1
STA. 13+25.69, RT	1
STA. 16+13.34, LT	1
STA. 16+41.48, RT	1
TOTAL	4

67100100 MOBLIZATION	
LOCATION	L SUM
ENTIRE PROJECT	1
TOTAL	1

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	
LOCATION	FOOT
STA. 13+78.02 TO STA. 14+41.60, RT	62.5
TOTAL	62.5

Z0013798 CONSTRUCTION LAYOUT	
LOCATION	L SUM
ENTIRE PROJECT	1
TOTAL	1

X7010216 TRAFFIC CONTROL AND PROTECTION (SPECIAL)	
LOCATION	L SUM
ENTIRE PROJECT	1
TOTAL	1

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	
LOCATION	EACH
STA. 14+34.63 TO STA. 14+78.38, LT	1
STA. 15+29.88 TO STA. 15+70.87, LT	1
TOTAL	2

78001110 PAINT PAVEMENT MARKING - LINE 4"			
LOCATION	COLOR	TYPE	FOOT
STA. 13+58.43 TO STA. 15+73.63, CL	YELLOW	DOUBLE SOLID	428.0
TOTAL			428

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A	
LOCATION	EACH
STA. 14+41.60 TO STA. 14+85.35, RT	1
STA. 15+36.84 TO STA. 15+85.95, RT	1
TOTAL	2

6640005 CHAIN LINK FENCE, 5'	
LOCATION	FOOT
STA. 13+75.00 TO STA. 14+78.88, LT	104.0
STA. 15+24.63 TO STA. 15+60.00, LT	35.0
45' Omission for Bicycle Railing	
TOTAL	139

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	
LOCATION	EACH
STA. 13+25.69 TO STA. 13+78.02, RT	1
STA. 13+85.36 TO STA. 14+34.63, LT	1
STA. 15+70.87 TO STA. 16+13.34, LT	1
STA. 15+85.95 TO STA. 16+41.48, RT	1
TOTAL	4

72000100 SIGN PANEL-TYPE 1			
SIGN DESIGNATION	LOCATION	NO OF SIGNS	SQ FT
W1-8	LT STA. 9+80.00	2	6
W1-8	LT STA. 11+00.00	2	6
W1-8	LT STA. 11+80.00	2	6
W1-8	LT STA. 12+60.00	2	6
W1-8	LT STA. 13+40.00	2	6
W1-8	LT STA. 14+20.00	2	6
W1-6	LT STA. 16+40.00	1	8
W1-6	LT STA. 16+52.00	1	8
TOTAL			52

72900100 METAL POSTS-TYPE A			
LOCATION	NO OF POSTS	EST LENGTH	FOOT
LT STA. 9+80.00	2	11'-0"	22
LT STA. 11+00.00	2	11'-0"	22
LT STA. 11+80.00	2	11'-0"	22
LT STA. 12+60.00	2	11'-0"	22
LT STA. 13+40.00	2	11'-0"	22
LT STA. 14+20.00	2	11'-0"	22
LT STA. 16+40.00	2	10'-6"	21
LT STA. 16+52.00	2	10'-6"	21
TOTAL			174

NOTE
ALL STATION CALLOUTS ARE BASED ON
AHEAD STATIONING OF THE STATION EQUATION.

BENCHMARK INFORMATION

TBM #401: CHISELED "□" TOP NW HEADWALL OF STRUCTURE
 STA. 14+88.07, 4.18' RT
 ELEV. = 522.42

HORIZONTAL CONTROL POINTS (GROUND COORDINATES)							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1426539.37	2452722.55	524.32	PR_SHERIDAN	18+94.30 R2	23.48' RT.	SET 5/8" REBAR
2	1426645.10	2452983.90	520.83	PR_SHERIDAN	16+49.23 R2	61.85' LT.	SET 5/8" REBAR
3	1426919.71	2452856.59	518.17	PR_SHERIDAN	13+81.74 R1	22.53' LT.	SET 5/8" REBAR
4	1427014.03	2452755.23	516.41	PR_SHERIDAN	12+51.10 R1	18.16' LT.	SET 5/8" REBAR
5	1427064.25	2452622.07	518.35	PR_SHERIDAN	11+15.49 R1	20.64' LT.	SET 5/8" REBAR
6	1426768.75	2452875.49	509.88	PR_SHERIDAN	15+21.53 R1	34.56' RT.	SET 5/8" REBAR
7	1426866.15	2452962.55	508.60	PR_SHERIDAN	14+78.25 R1	88.70' LT.	SET 5/8" REBAR

PROP. CURVE PR_SHERIDAN-1
 PI STA. = 10+74.42
 Δ = 15° 01' 33" (RT)
 D = 10° 09' 14"
 R = 564.28'
 T = 74.42'
 L = 147.98'
 E = 4.89'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 10+00.00
 P.T. STA = 11+47.98

PROP. CURVE PR_SHERIDAN-2
 PI STA. = 12+83.45
 Δ = 48° 36' 12" (RT)
 D = 19° 05' 55"
 R = 300.00'
 T = 135.47'
 L = 254.49'
 E = 29.17'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 11+47.98
 P.T. STA = 14+02.47

PROP. CURVE PR_SHERIDAN-3-1
 PI STA. = 15+58.22
 Δ = 13° 04' 04" (RT)
 D = 45° 50' 12"
 R = 125.00'
 T = 14.32'
 L = 28.51'
 E = 0.82'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 15+43.90
 P.T. STA = 15+72.41

PROP. CURVE PR_SHERIDAN-3-2
 PI STA. = 16+59.38
 Δ = 68° 54' 00" (RT)
 D = 45° 50' 12"
 R = 125.00'
 T = 85.75'
 L = 150.32'
 E = 26.58'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA = 15+73.63
 P.T. STA = 17+23.95

Beginning chain PR_SHERIDAN description
 Curve Data

Curve PR_SHERIDAN-1
 P.I. Station 10+74.4190 N 1,427,053.8985 E 2,452,578.0188
 Delta = 15° 01' 33.4899" (RT)
 Degree = 10° 09' 13.5893"
 Tangent = 74.4190
 Length = 147.9841
 Radius = 564.2806
 External = 4.8862
 Long Chord = 147.5604
 Mid. Ord. = 4.8442
 P.C. Station 10+00.0000 N 1,427,050.6650 E 2,452,503.6700
 P.T. Station 11+47.9841 N 1,427,037.7459 E 2,452,650.6637
 C.C. N 1,426,486.9173 E 2,452,528.1876
 Back = 87° 30' 35.1269"
 Ahead = 102° 32' 08.6168"
 Chord Bear = 95° 01' 21.8719"

Curve Data

Curve PR_SHERIDAN-3-1
 P.I. Station 15+58.2176 N 1,426,753.3008 E 2,452,923.4640
 Delta = 13° 04' 04.1389" (RT)
 Degree = 45° 50' 11.8450"
 Tangent = 14.3169
 Length = 28.5096
 Radius = 125.0000
 External = 0.8172
 Long Chord = 28.4478
 Mid. Ord. = 0.8119
 P.C. Station 15+43.9007 N 1,426,765.8395 E 2,452,916.5535
 P.T. Station 15+72.4103 N 1,426,739.5244 E 2,452,927.3605
 C.C. N 1,426,705.5040 E 2,452,807.0791
 Back = 151° 08' 20.9861"
 Ahead = 164° 12' 25.1250"
 Chord Bear = 157° 40' 23.0556"

End Region 1
 Equation: Sta 15+72.4103 (BK) = Sta 15+73.6306 (AH)
 Begin Region 2

Curve Data

Curve PR_SHERIDAN-3-2
 P.I. Station 16+59.3802 N 1,426,657.0117 E 2,452,950.6984
 Delta = 68° 53' 59.9651" (RT)
 Degree = 45° 50' 11.8450"
 Tangent = 85.7496
 Length = 150.3165
 Radius = 125.0000
 External = 26.5849
 Long Chord = 141.4217
 Mid. Ord. = 21.9225
 P.C. Station 15+73.6306 N 1,426,739.5244 E 2,452,927.3605
 P.T. Station 17+23.9471 N 1,426,605.5343 E 2,452,882.1195
 C.C. N 1,426,705.5040 E 2,452,807.0791
 Back = 164° 12' 25.1250"
 Ahead = 233° 06' 25.0901"
 Chord Bear = 198° 39' 25.1076"

Curve Data

Curve PR_SHERIDAN-2
 P.I. Station 12+83.4501 N 1,427,008.3432 E 2,452,782.9004
 Delta = 48° 36' 12.3693" (RT)
 Degree = 19° 05' 54.9354"
 Tangent = 135.4660
 Length = 254.4870
 Radius = 300.0000
 External = 29.1672
 Long Chord = 246.9250
 Mid. Ord. = 26.5827
 P.C. Station 11+47.9841 N 1,427,037.7459 E 2,452,650.6637
 P.T. Station 14+02.4711 N 1,426,889.7028 E 2,452,848.2876
 C.C. N 1,426,744.8977 E 2,452,585.5492
 Back = 102° 32' 08.6168"
 Ahead = 151° 08' 20.9861"
 Chord Bear = 126° 50' 14.8015"

Course from PT PR_SHERIDAN-2 to PC PR_SHERIDAN-3-1 151° 08' 20.9862" Dist 141.4297

NOTE: POINT #1 NOT SHOWN



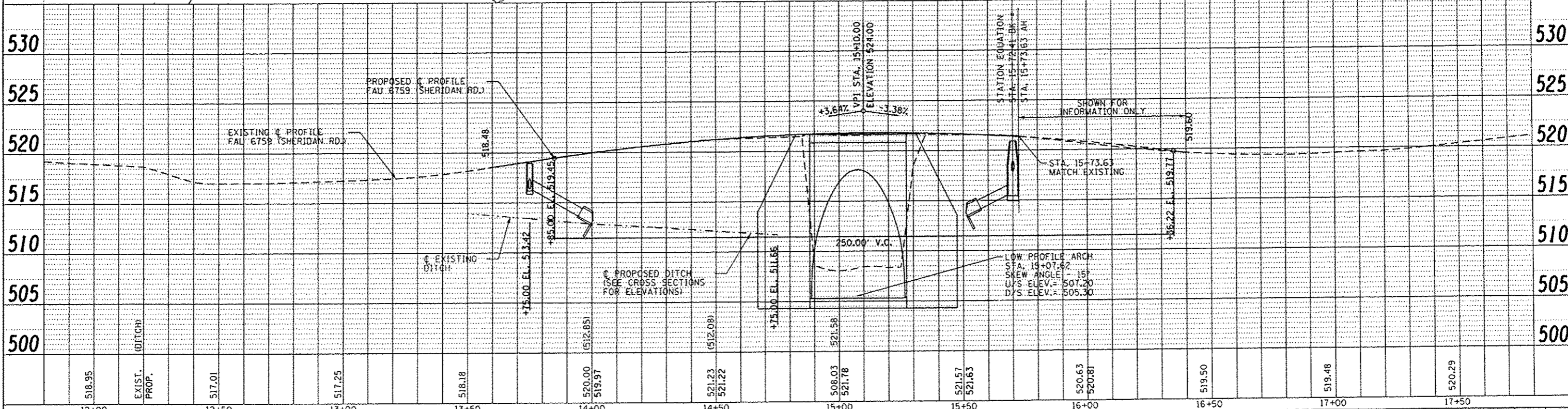
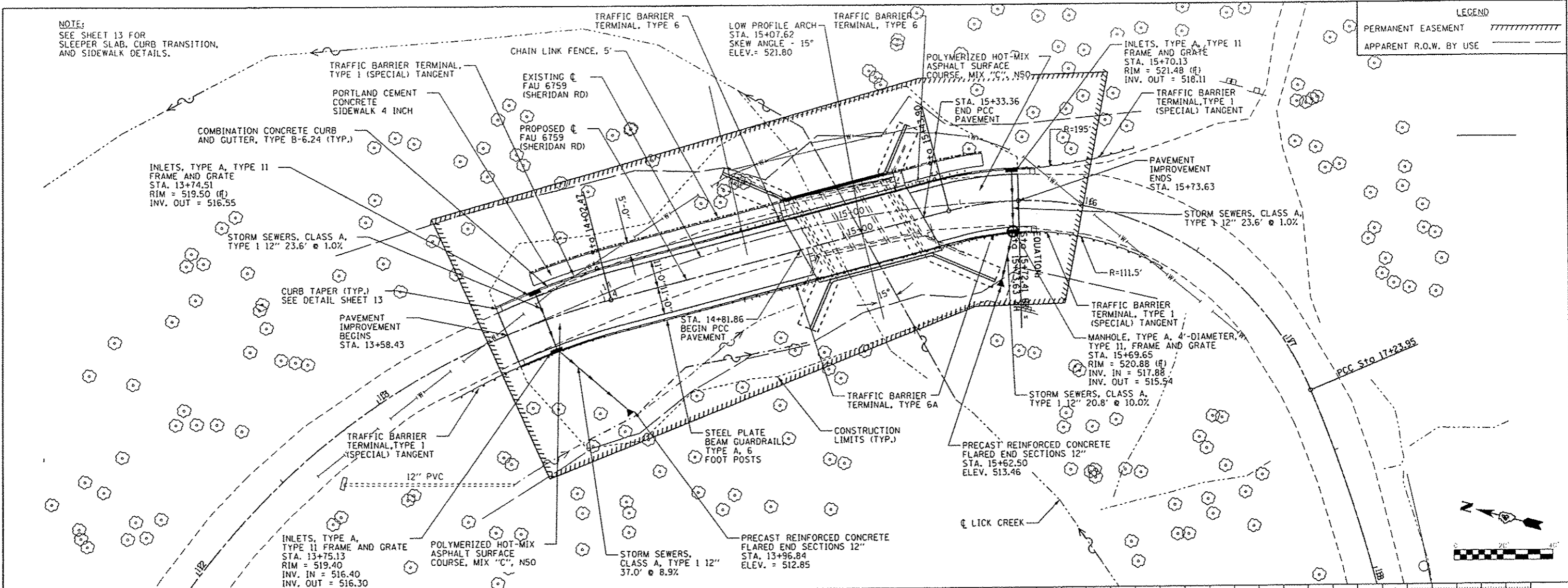
FILE NAME *	USER NAME *	DESIGNED -	REVISED -		SHERIDAN ROAD OVER LICK CREEK			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\237-2009\23709001\SheridanRdBridgePh\CAD\CADD Sheets\0409001-sh1-HVC.dgn		DRAWN -	REVISED -		HORIZONTAL AND VERTICAL CONTROL			6759	07-00176-00-BR	TAZEWELL	30	7
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 89496				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

NOTE:
SEE SHEET 13 FOR
SLEEPER SLAB, CURB TRANSITION,
AND SIDEWALK DETAILS.

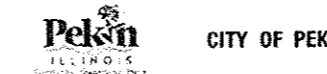
LEGEND
PERMANENT EASEMENT
APPARENT R.O.W. BY USE

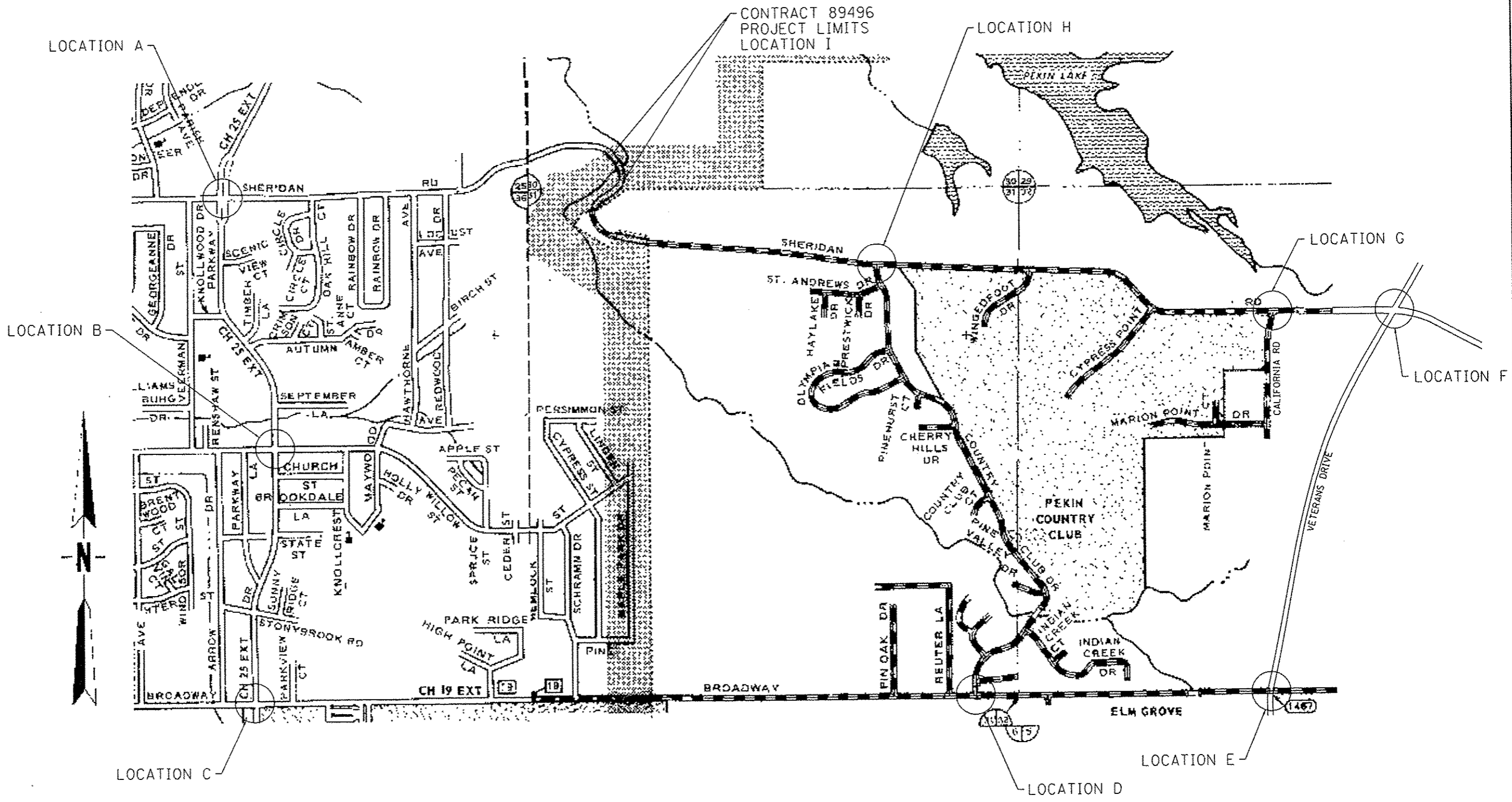
DATE	
BY	
PROJECT	
PROFILES	
GRADES CHECKED	
DATE PLOTTED	
NOTE BOOK NO.	
ADD FILE NAME	

DATE	
BY	
PROJECT	
PROFILES	
GRADES CHECKED	
DATE PLOTTED	
NOTE BOOK NO.	
ADD FILE NAME	

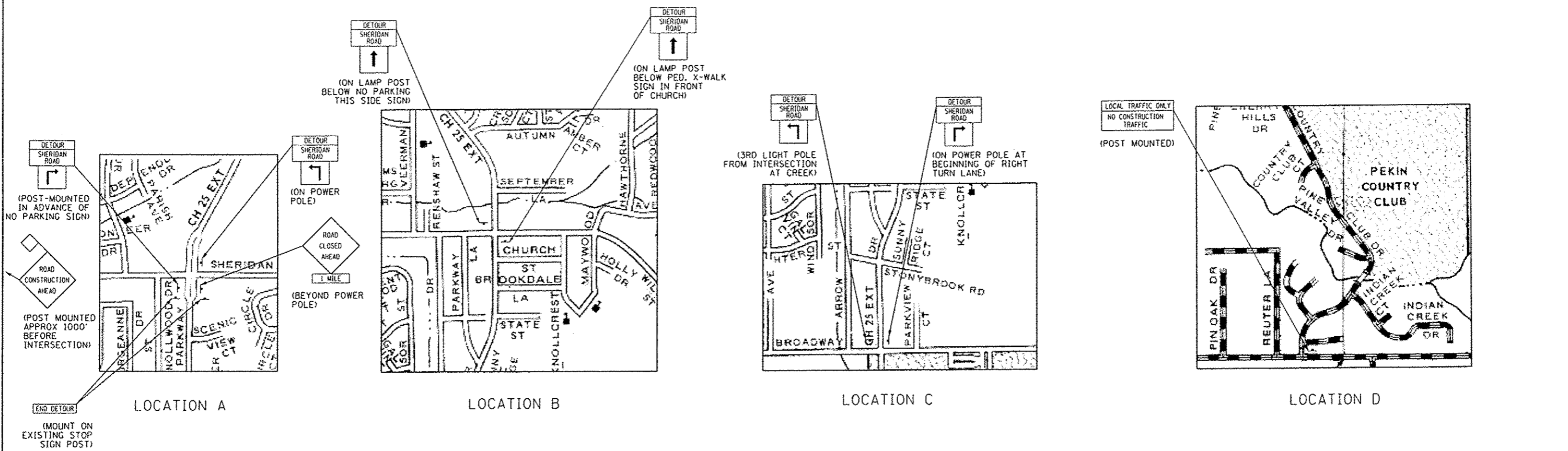


FILE NAME	USER NAME	DESIGNED	REVISED	SHERIDAN ROAD OVER LICK CREEK		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\237\2009\23701001\SheridanRdBridgePHD	* bathierar	-	-	PLAN AND PROFILE		6759	07-00176-00-BR	TAZEWELL	30	9
ADD\CAD00_Sheets\0401001\sh-r-plan-f.dgn		DRAWN	REVISED	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 89496			
PLOT SCALE = 40.0000 / in.		CHECKED	REVISED				ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/10/2013		DATE	REVISED							





FILE NAME * S:\237\2009\23709001\SheridanRdBridgePh	USER NAME * bathier	DESIGNED -	REVISED -		SHERIDAN ROAD OVER LICK CREEK MARKED ROUTE DETOUR		F.A.U. RTE. 6759	SECTION 07-00176-00-BR	COUNTY TAZEWELL	TOTAL SHEETS 30	SHEET NO. 10	
VCADD\CADD Sheets\0409001-sht-detour.dgn	PLOT SCALE * 2,0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE * 10/10/2013	CHECKED -	REVISED -					CONTRACT NO. 89496				
		DATE -	REVISED -					CONTRACT NO. 89496				

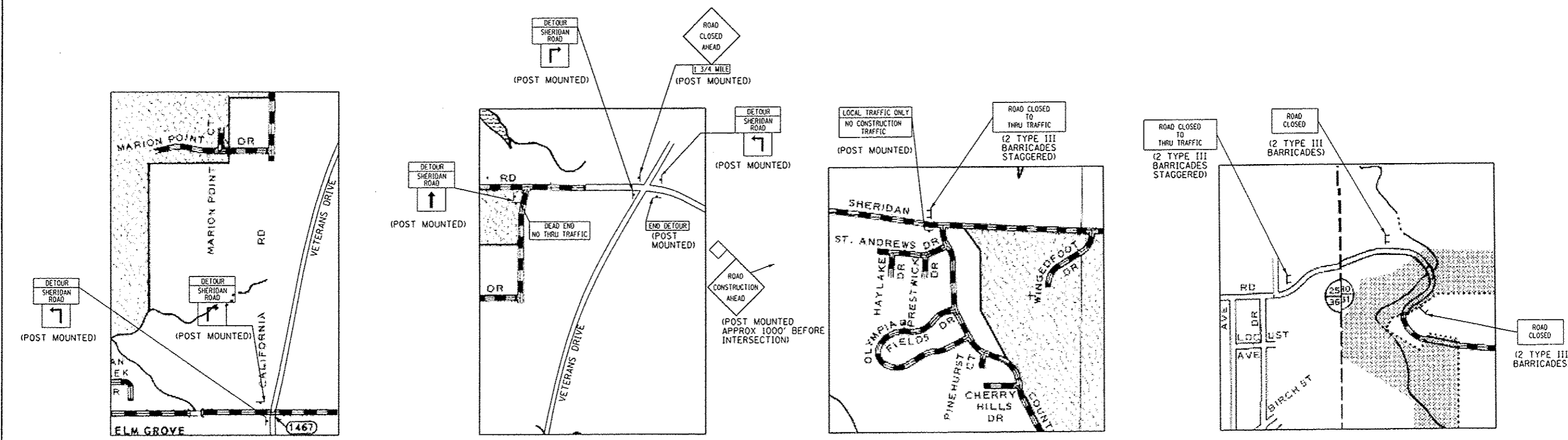


LOCATION A

LOCATION B

LOCATION C

LOCATION D



LOCATION E

LOCATIONS F&G

LOCATION H

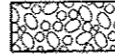

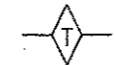

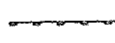

LOCATION I

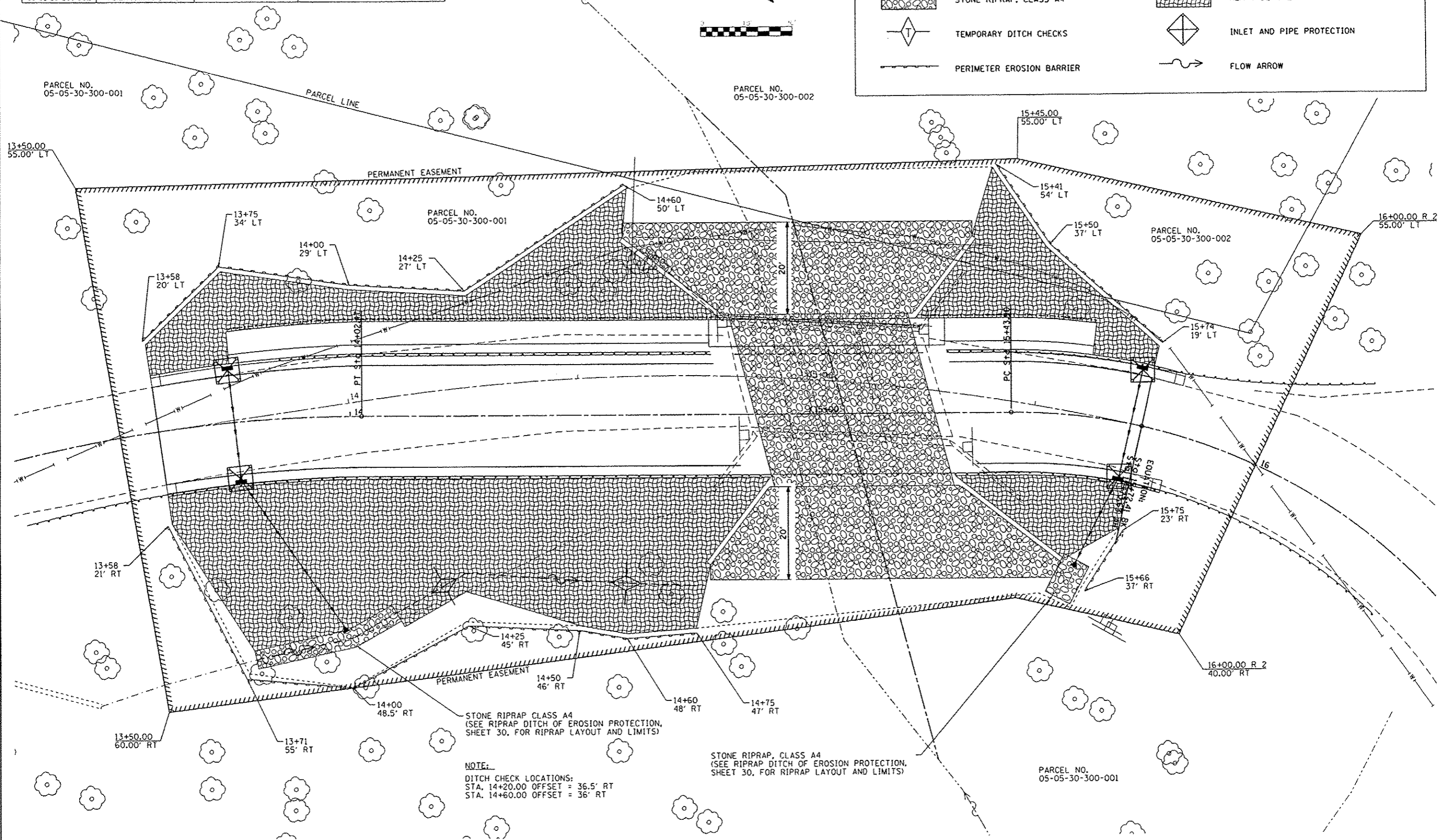
FILE NAME * S:\237\2009\23701001\SheridanRdBridgePh	USER NAME * bathor	DESIGNED - DRAWN -	REVISED - REVISED -		SHERIDAN ROAD OVER LICK CREEK DETOUR SIGNING DETAIL			F.A.U. RTE. 6759	SECTION 07-00176-00-BR	COUNTY TAZEWELL	TOTAL SHEETS 30	SHEET NO. 11
PLOT SCALE * 2.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td> <td>REVISED -</td> <td>SCALE:</td> <td>SHEET NO.</td> <td>OF</td> <td>SHEETS</td> <td>STA.</td> <td>TO STA.</td> <td colspan="2">CONTRACT NO. 89496</td>	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 89496	
PLOT DATE * 10/14/2013	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

PARCEL NO.	PROPERTY OWNER	APPROXIMATE AREA OF TAKING (ACRES)	PURPOSE
05-05-30-300-002	PEKIN PARK DISTRICT	0.06	CONSTRUCTION OF STRUCTURE AND REALIGNMENT OF ROADWAY
05-05-30-300-001	PEKIN PARK DISTRICT	0.53	

SW 1/4 SECTION 30, T25N, R4W, 3RD P.M.

LEGEND

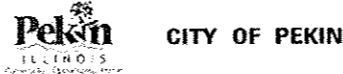
	STONE RIPRAP, CLASS A4		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY DITCH CHECKS		INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER		FLOW ARROW

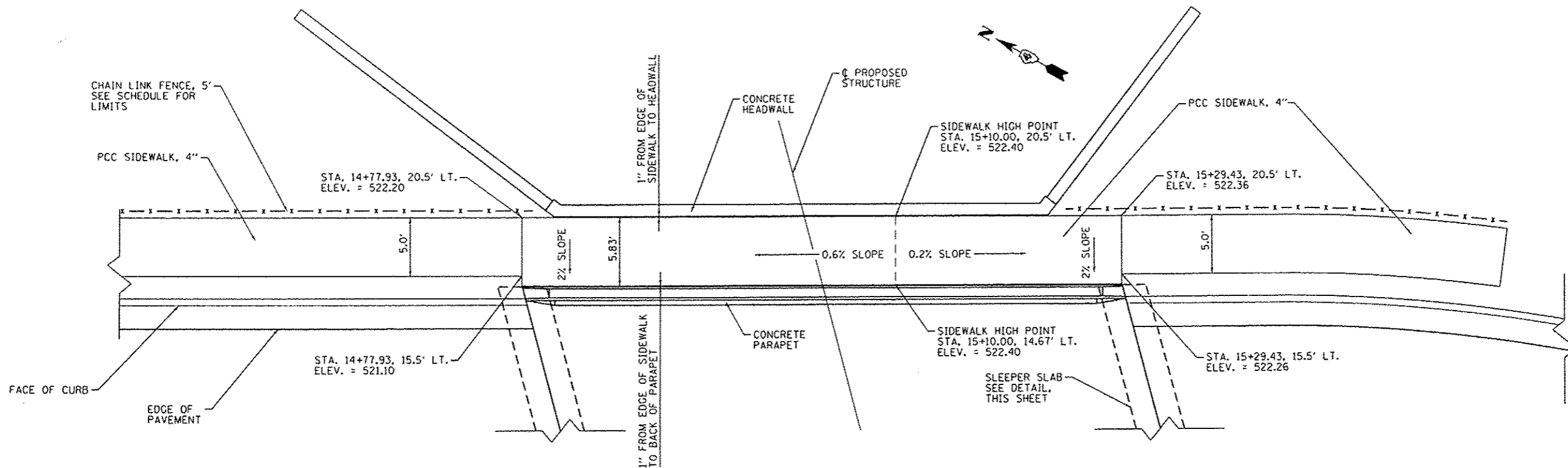


STONE RIPRAP CLASS A4
(SEE RIPRAP DITCH OF EROSION PROTECTION, SHEET 30, FOR RIPRAP LAYOUT AND LIMITS)

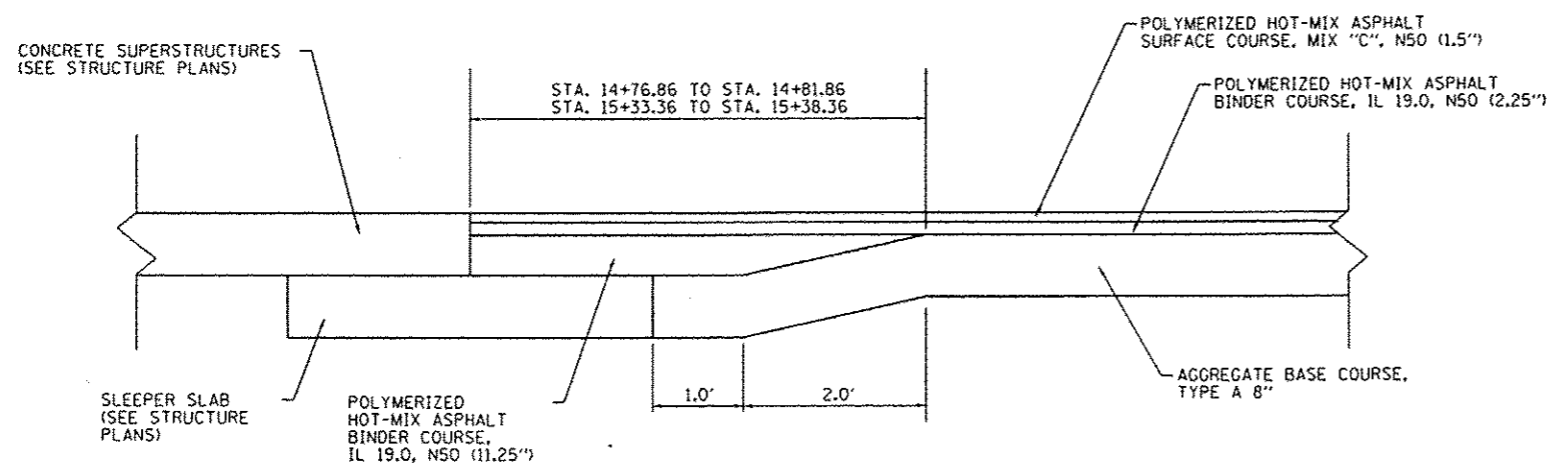
STONE RIPRAP, CLASS A4
(SEE RIPRAP DITCH OF EROSION PROTECTION, SHEET 30, FOR RIPRAP LAYOUT AND LIMITS)

NOTE:
DITCH CHECK LOCATIONS:
STA. 14+20.00 OFFSET = 36.5' RT
STA. 14+60.00 OFFSET = 36' RT

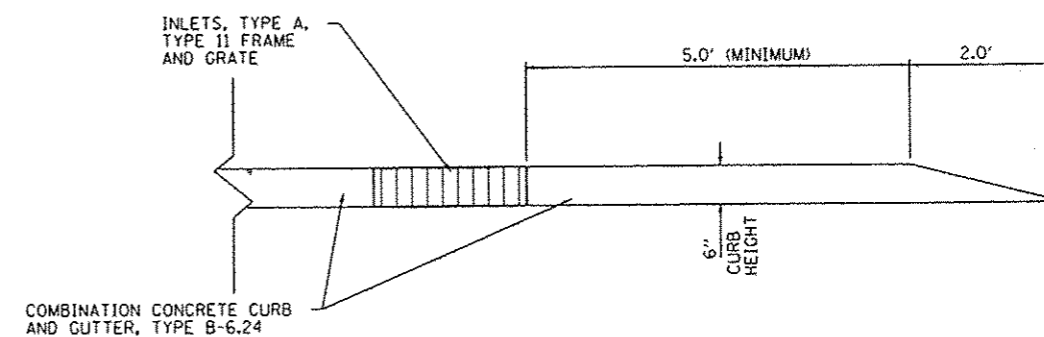
FILE NAME *	USER NAME * bathier	DESIGNED -	REVISED -		SHERIDAN ROAD OVER LICK CREEK		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\237\2009\2378\0001\SheridanRdBridgePlan\CADD\CADD Sheets\0409001\st-eros-row.dgn		DRAWN -	REVISED -		EROSION CONTROL AND RIGHT-OF-WAY PLAN		6759	07-00176-00-BR	TAZEWELL	30	12
MAURER-STUTZ	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
ENGINEERS SURVEYORS	PLOT DATE = 10/10/2013	DATE -	REVISED -								



SIDEWALK PLAN VIEW AT STRUCTURE
SCALE: NONE



SLEEPER SLAB PAVEMENT TRANSITION DETAIL
SCALE: NONE



CURB TRANSITION DETAIL
SCALE: NONE

FILE NAME *	USER NAME *	DESIGNED -	REVISED -
S:\237\2009\23709001\SheridanRdBridgePh	bathier-	DRAWN -	REVISED -
MAURER-STUTZ	ENGINEERS SURVEYORS	CHECKED -	REVISED -
		DATE -	REVISED -



SHERIDAN ROAD OVER LICK CREEK			
ROADWAY DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6759	07-00176-00-BR	TAZEWELL	30	13
CONTRACT NO. 89496				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square on top of NW headwall of S.N. 090-5012. Elev. 522.42.
 Existing Structure: Triple 14.1'x12.6' Live Load Box Culvert, 22.3' long at 12° skew. Existing structure to be removed. No salvage.
 Road to be closed during construction.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 The Corrugated Structural Plate Arch shall provide a minimum total opening area above elevation 506.60 satisfying the proposed opening areas listed in the Waterway Information table.

INDEX OF SHEETS

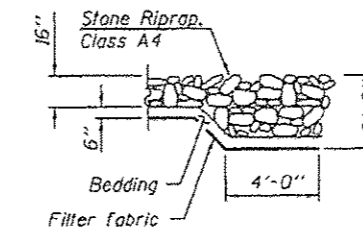
1. General Plan
2. Wingwalls
3. Headwalls
4. Superstructure Details
5. Steel Railing, Type 2399
6. Bicycle Railing
7. Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	449
Filter Fabric	Sq. Yd.	449
Removal of Existing Structures	Each	1
Rock Excavation for Structures	Cu. Yd.	41
Concrete Structures	Cu. Yd.	134.3
Concrete Superstructure	Cu. Yd.	63.6
Form Liner Textured Surface	Sq. Ft.	1940
Reinforcement Bars	Pound	9870
Reinforcement Bars, Epoxy Coated	Pound	12440
Steel Railing, Type 2399	Foot	52
Bicycle Railing	Foot	46
Name Plate	Each	1
Pipe Underdrains for Structures, 4"	Foot	76
Corrugated Structural Plate Arches, 383 Sq. Ft.	Foot	39
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	670

SHERIDAN ROAD OVER LICK CREEK
 BUILT 20 BY
 CITY OF PEKIN
 SEC. 07-00176-00-BR
 STA. 15+07.62
 STR. NO. 090-6089 LOADING HL-93

NAME PLATE
 See Std. 515001



SECTION A-A

DESIGN SPECIFICATIONS
 2010 AASHTO LRFD Bridge Design Specifications
 with 2010 Interim

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

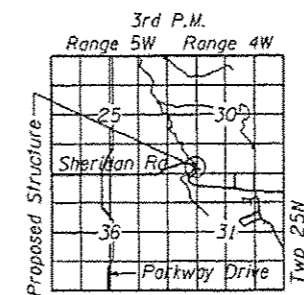
DESIGN STRESSES
FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

I certify that to the best of knowledge, information, and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Bridge Design Specifications.

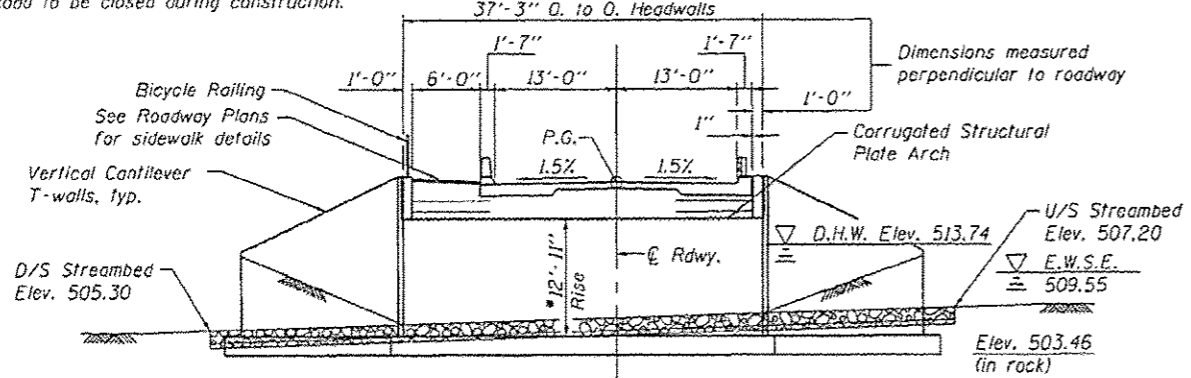


Bryan Swanson
 Date Signed: 10-15-13
 Exp. Date: 11-30-14



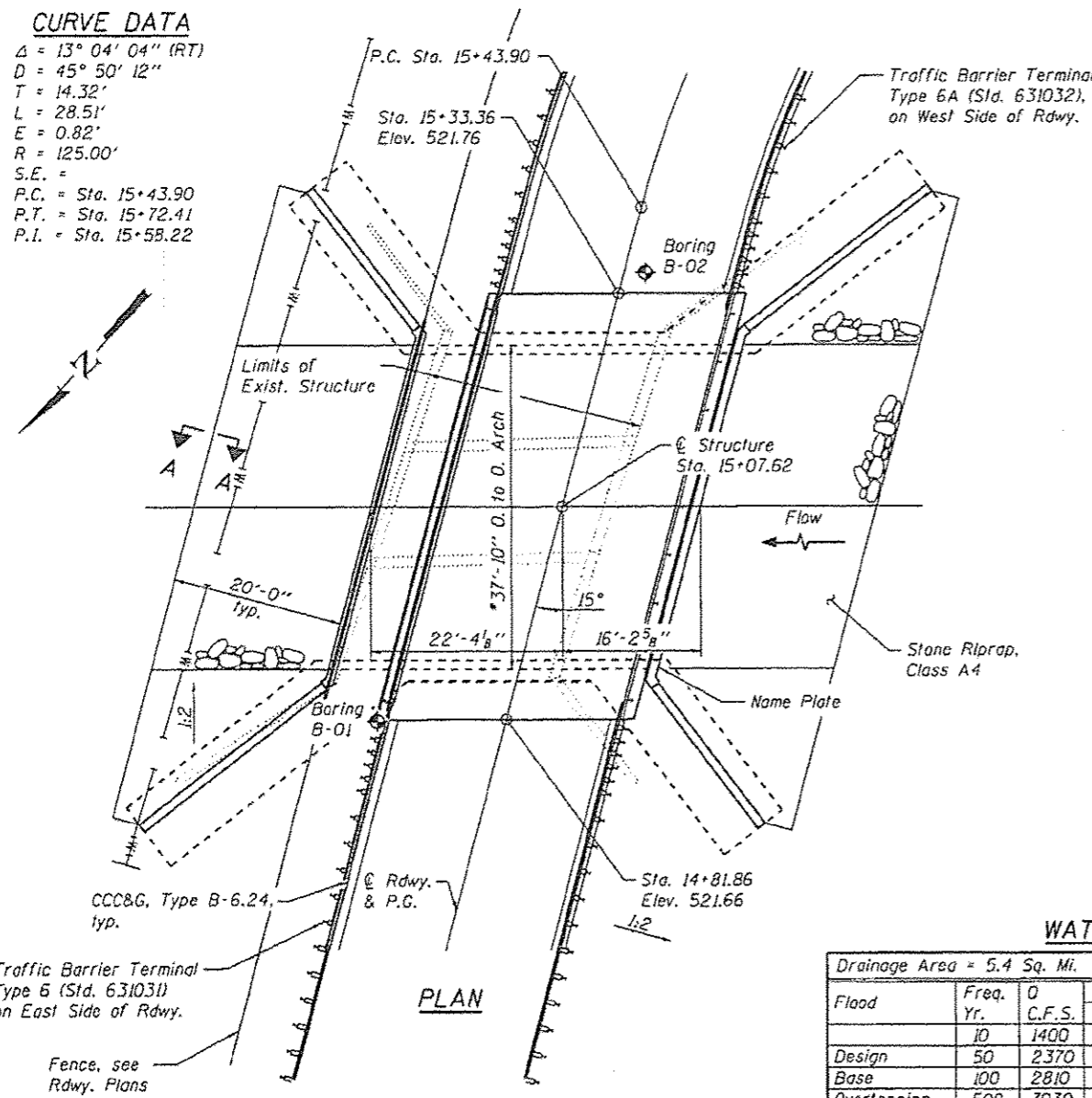
LOCATION SKETCH

GENERAL PLAN
 SHERIDAN ROAD OVER LICK CREEK
 SEC. 07-00176-00-BR
 TAZEWELL COUNTY
 STA. 15+07.62
 STRUCTURE NO. 090-6089

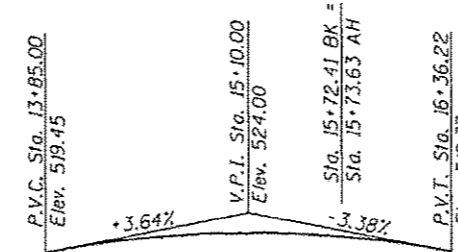


LONGITUDINAL SECTION

CURVE DATA
 $\Delta = 13^\circ 04' 04''$ (RT)
 $D = 45^\circ 50' 12''$
 $T = 14.32'$
 $L = 28.51'$
 $E = 0.82'$
 $R = 125.00'$
 $S.E. =$
 $P.C. = Sta. 15+43.90$
 $P.T. = Sta. 15+72.41$
 $P.I. = Sta. 15+58.22$



PLAN



PROFILE GRADE
 (along ϕ rdwy.)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Footing
	503.5

WATERWAY INFORMATION

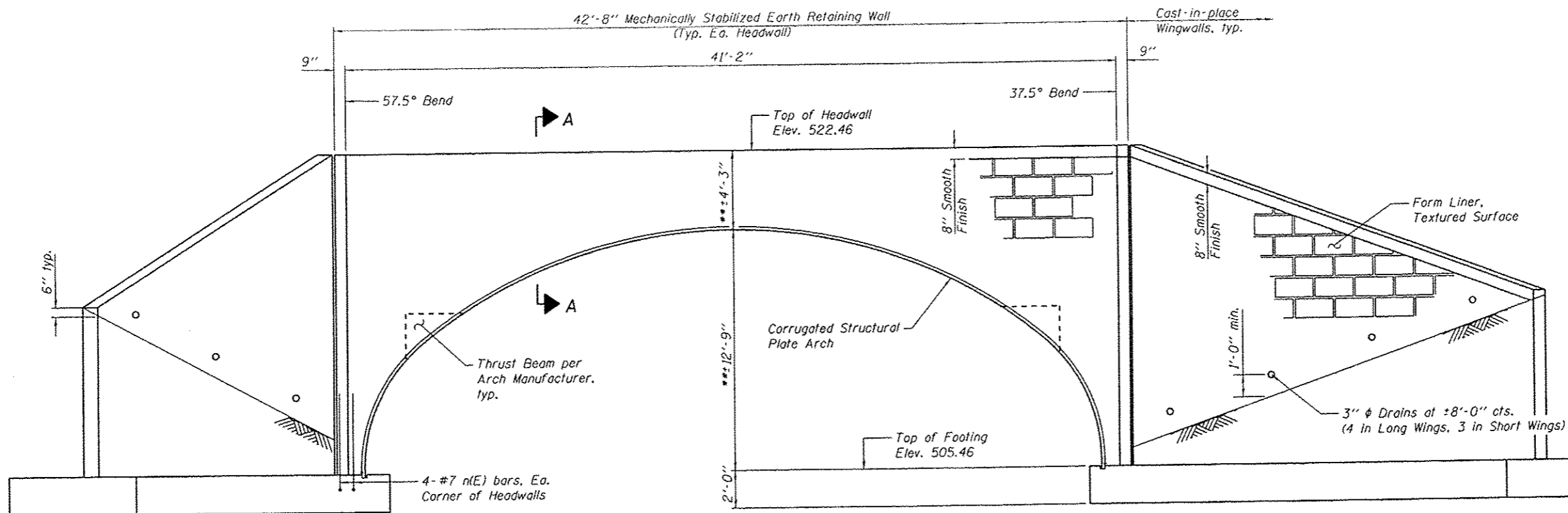
Drainage Area = 5.4 Sq. Mi.

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1400	156	184	512.26	512.28	0.91	0.00	513.2	512.3
Base	50	2370	220	230	513.78	513.74	2.05	0.84	515.8	514.6
Overlapping	100	2810	245	246	514.36	514.31	2.50	1.60	516.9	515.9
Max. Calc.	500	3930	299	278	515.63	515.58	2.72	2.56	518.4	518.1
	500	3930	299	278	515.63	515.58	2.72	2.56	518.4	518.1

10-Year Velocity through Existing Structure = 11.9 fps
 10-Year Velocity through Proposed Structure = 7.3 fps

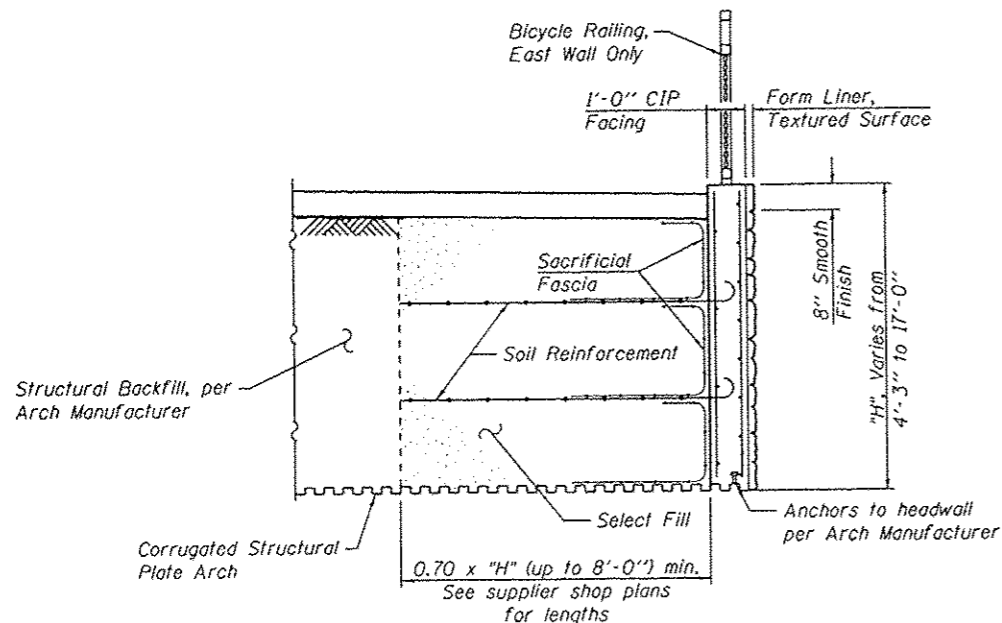
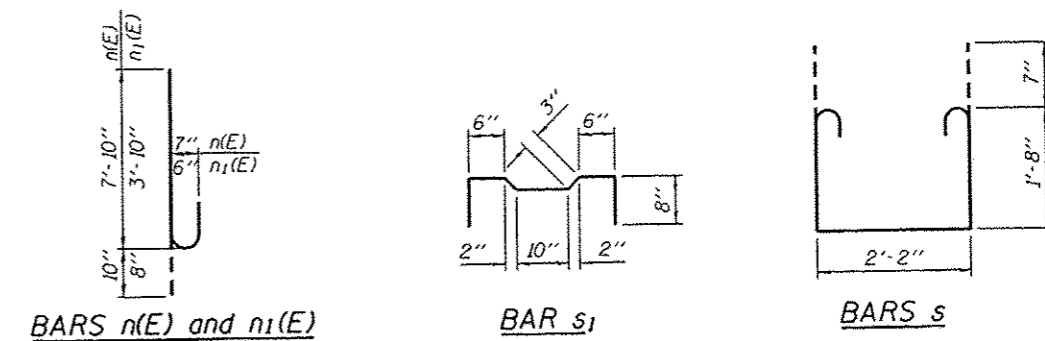
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	52	#4	26'-8"	
h ₁	52	#4	20'-2"	
n(E)	122	#7	8'-8"	
n ₁ (E)	106	#6	4'-6"	
p	32	#6	22'-0"	
s	84	#5	6'-8"	
s ₁	84	#4	3'-8"	
l	250	#6	8'-4"	
v	106	#5	7'-6"	
v ₁	34	#4	11'-3"	
v ₂	36	#4	8'-7"	
v ₃	36	#4	5'-11"	
v ₄	28	#4	16'-8"	
w	24	#5	35'-2"	
w ₁	24	#5	25'-6"	
Concrete Structures		Cu. Yd.	128.3	
Reinforcement Bars		Pound	9870	
Reinforcement Bars, Epoxy Coated		Pound	2880	
Pipe Underdrain for Structures, 4"		Foot	76	
Form Liner, Textured Surface		Sq. Ft.	1940	
Mechanically Stabilized Earth Retaining Wall		Sq. Ft.	670	



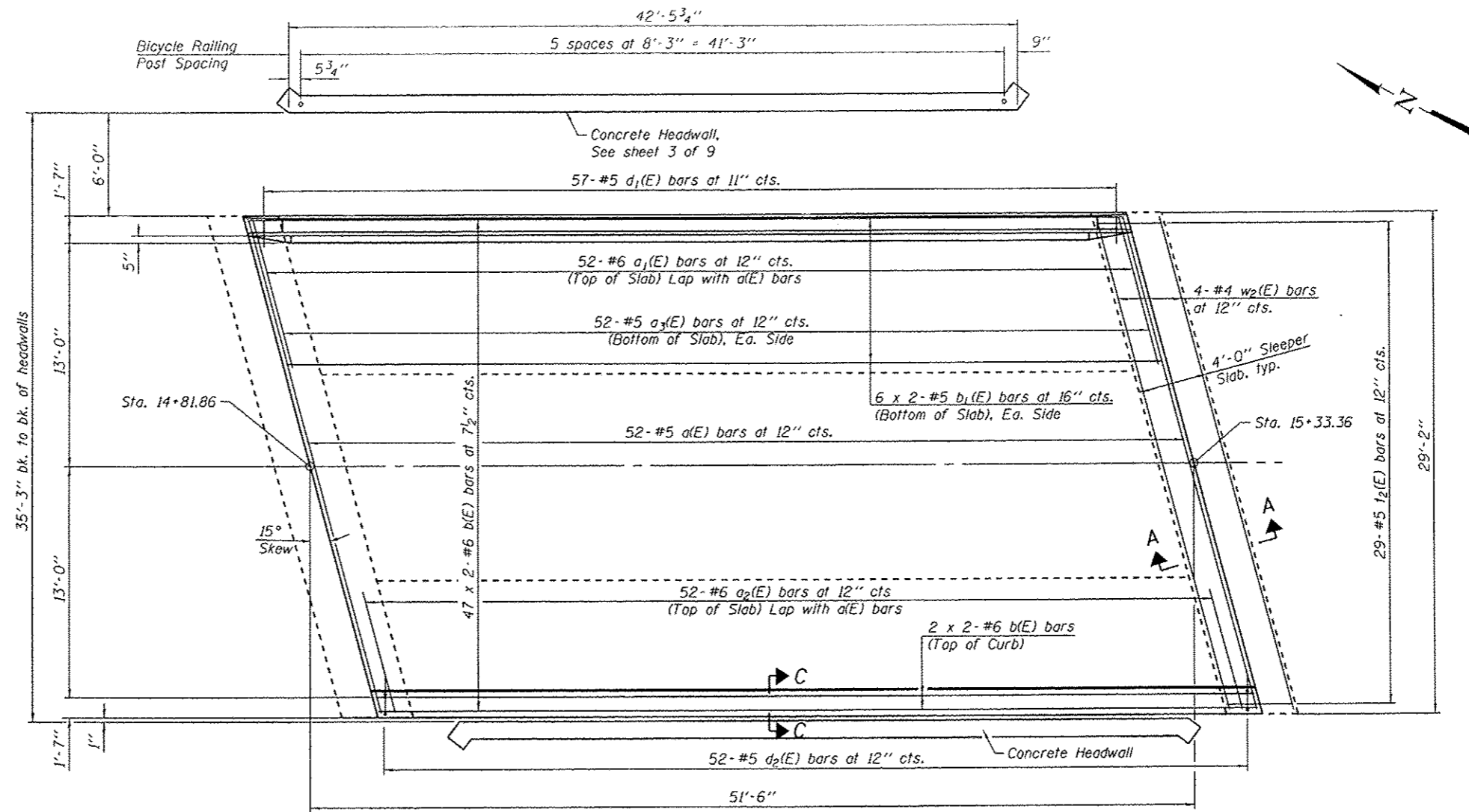
** Arch rise and corresponding vertical dimensions may vary by manufacturer.

HEADWALL ELEVATION

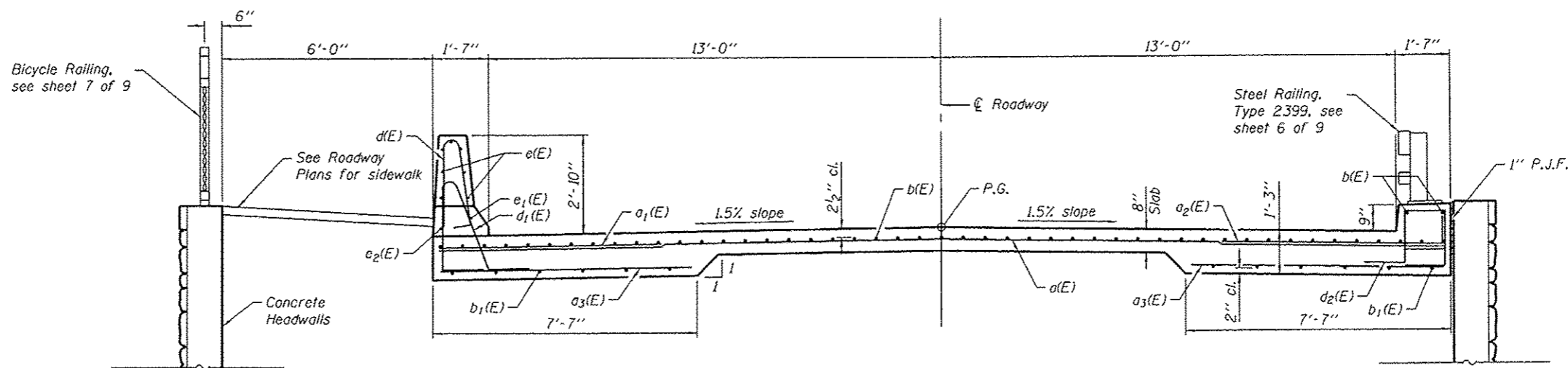


SECTION A-A

Notes:
 Form Liner shall be utilized on the exposed face of the wingwalls and headwalls. Pattern 1106-Small Random Cut Stone by Custom Rock Formliners or approved equivalent shall be used.
 The depth of form liner shall be in addition to the 1'-0" thickness of the walls.
 The MSE wall supplier's internal stability design shall account for the pavement's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.



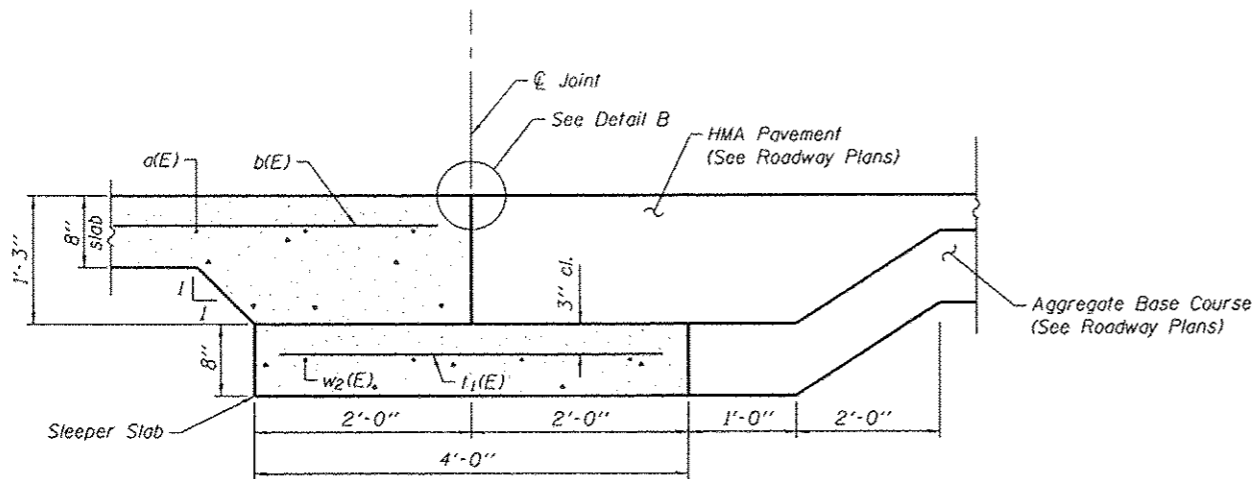
PLAN



CROSS SECTION
(Looking South)

Notes:
For Sections A-A and C-C, see sheet 5 of 9.
Bars a(E), a₁(E), and a₂(E) shall be placed parallel to the skew. Spacing for these bars shall be along the \hat{c} of roadway.

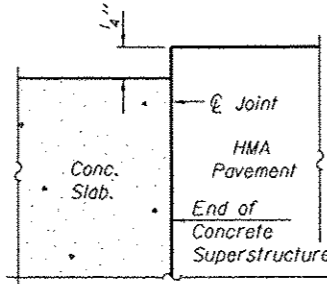
FILE NAME S:\237\2009\123709001\Sheilder\BridgPh	USER NAME baswanon	DESIGNED - BAS	REVISED -	 CITY OF PEKIN ELECTRICITY DIVISION	SUPERSTRUCTURE STRUCTURE NO. 090-6089		F.A.J. RTE. 6759	SECTION 07-00179-00-BR	COUNTY TAYZEWELL	TOTAL SHEETS 30	SHEET NO. 17	
CADD\CADD Sheets\0409001-0906089-004-Sup		CHECKED - BAT	REVISED -		SHEET NO. 4 OF 9 SHEETS		CONTRACT NO. 89496		ILLINOIS FED. AID PROJECT			
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE = 0:2.0000 1" = 10'	DRAWN - WLL	REVISED -									
	PLOT DATE = 10/15/2013	CHECKED - RJA/BAS	REVISED -									



SECTION A-A

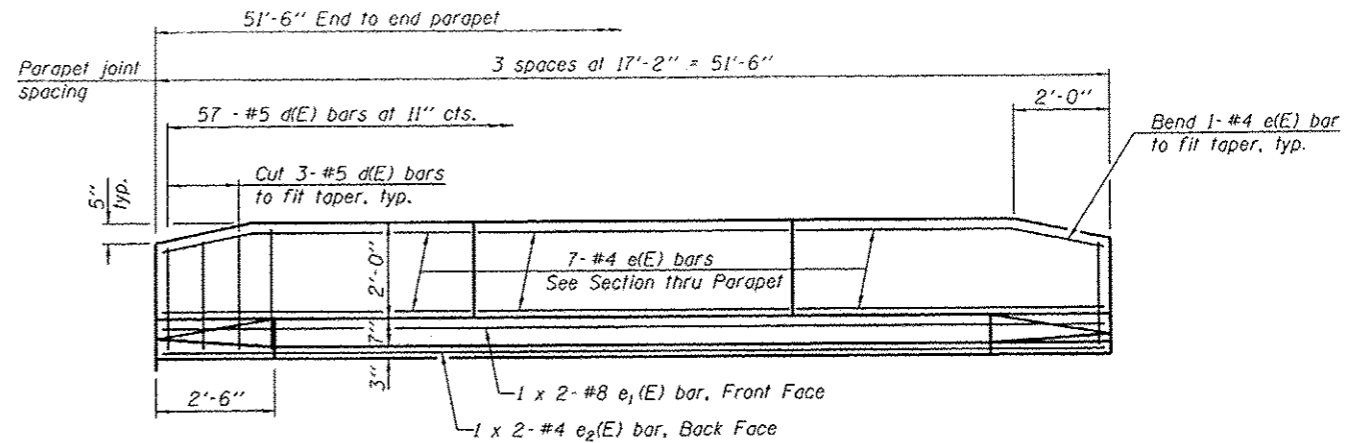
Dimensions shown perp. to joint

Notes:
Sleeper Slab shall be paid for as Concrete Structures.



FLEXIBLE PAVEMENT

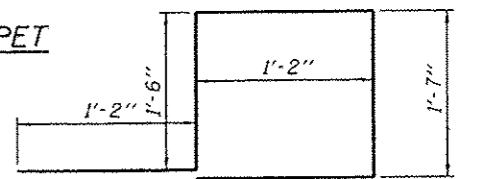
DETAIL B



INSIDE ELEVATION OF PARAPET

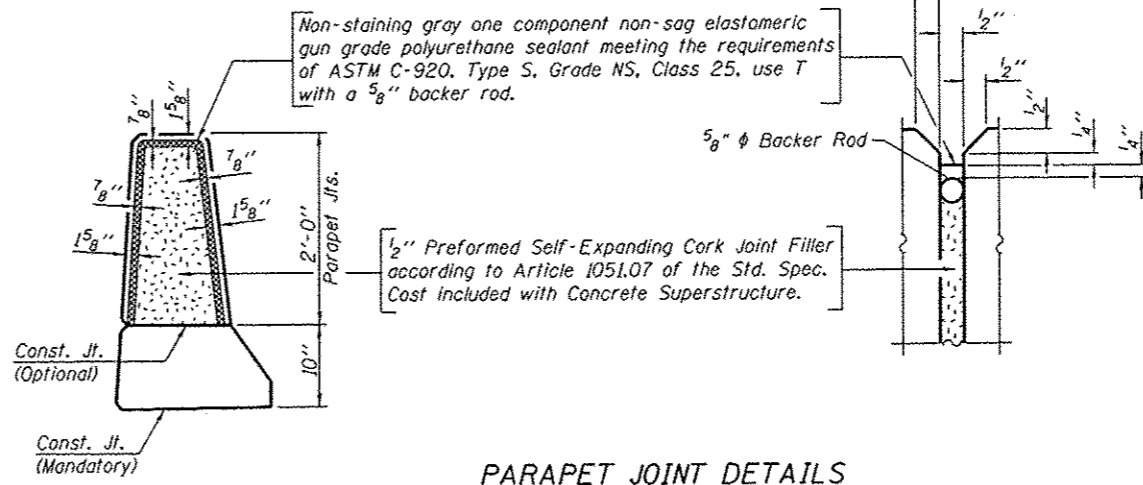
MINIMUM BAR LAP

- #4 bar = 2'-0"
- #5 bar = 2'-6"
- #6 bar = 3'-0"
- #8 bar = 5'-2"

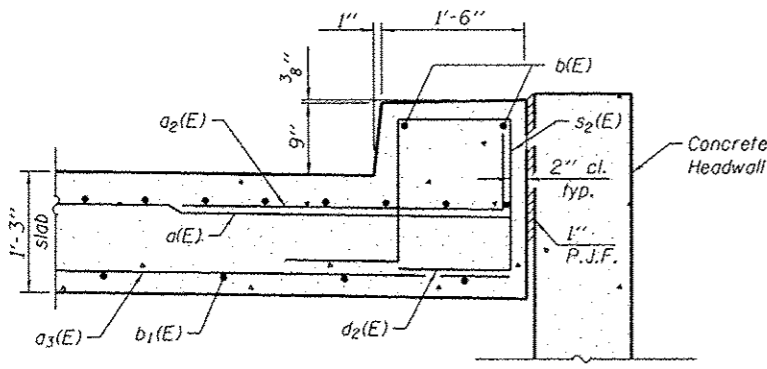


BAR d₂(E)

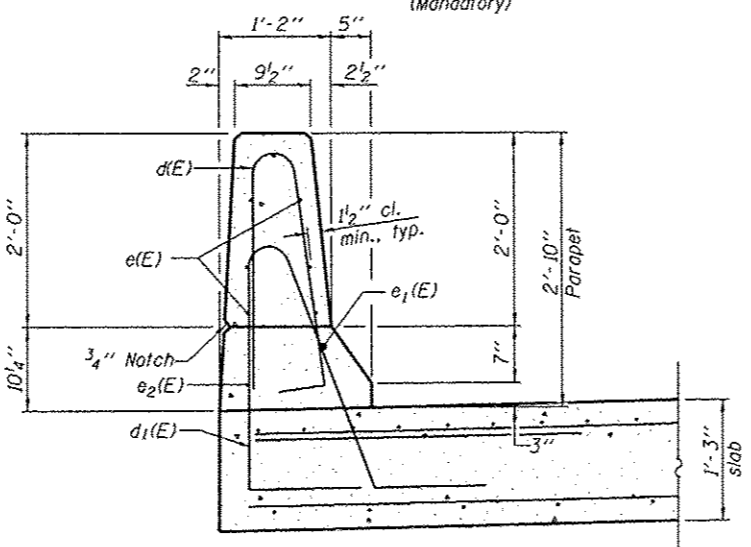
BAR a₂(E)



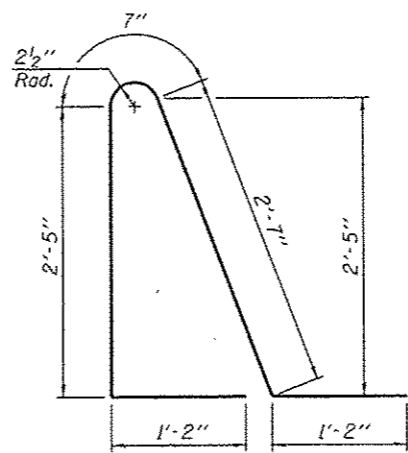
PARAPET JOINT DETAILS



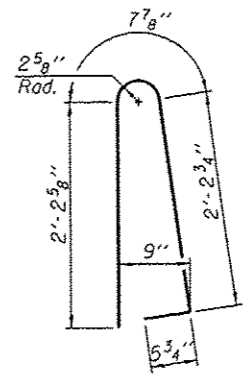
DETAIL C-C



SECTION THRU PARAPET



BAR d₁(E)



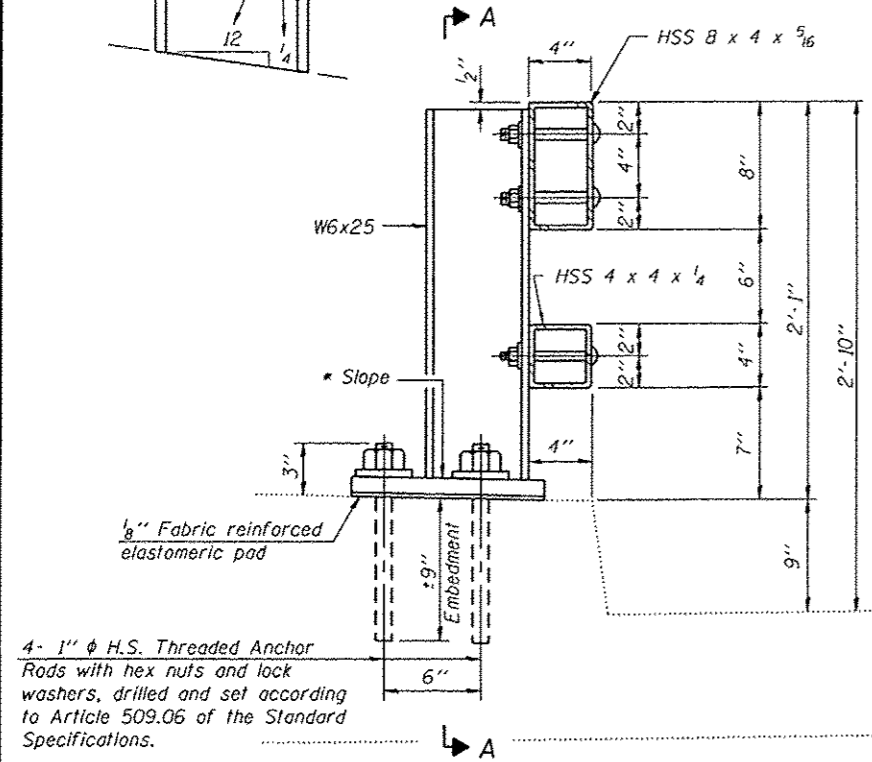
BAR d(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	52	#4	29'-10"	
a ₁ (E)	52	#6	6'-6"	
a ₂ (E)	52	#6	7'-6"	
a ₃ (E)	104	#5	7'-3"	
b(E)	98	#6	27'-2"	
b ₁ (E)	24	#5	26'-11"	
d(E)	57	#5	5'-7"	
d ₁ (E)	57	#5	7'-11"	
d ₂ (E)	52	#5	6'-7"	
e(E)	21	#4	16'-10"	
e ₁ (E)	2	#8	28'-3"	
e ₂ (E)	2	#4	26'-8"	
t ₁ (E)	58	#5	3'-9"	
w ₂ (E)	8	#4	29'-10"	
Reinforcement Bars, Epoxy Coated			Pound	9560
Concrete Superstructure			Cu. Yd.	63.6
Concrete Structures			Cu. Yd.	6.0

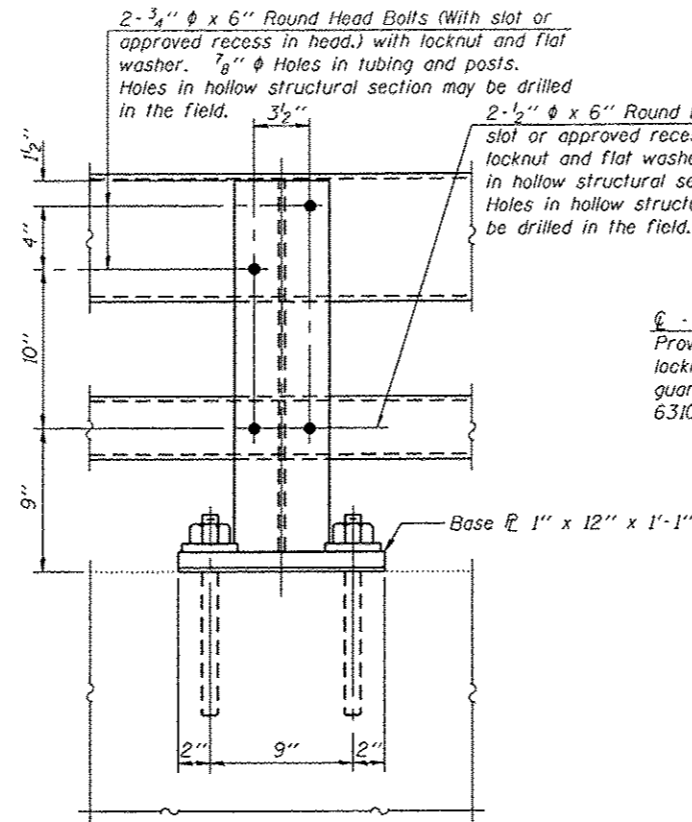
Bars indicated thus 1 x 2 - #5 etc. indicates 1 line of bars with 2 lengths per line.

* Cut bottom end of post to curb slope.



4- 1" ϕ H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.

SECTION AT RAIL POST

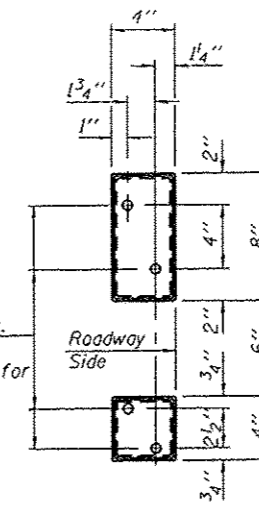


2- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer. 7/8" ϕ Holes in tubing and posts. Holes in hollow structural section may be drilled in the field.

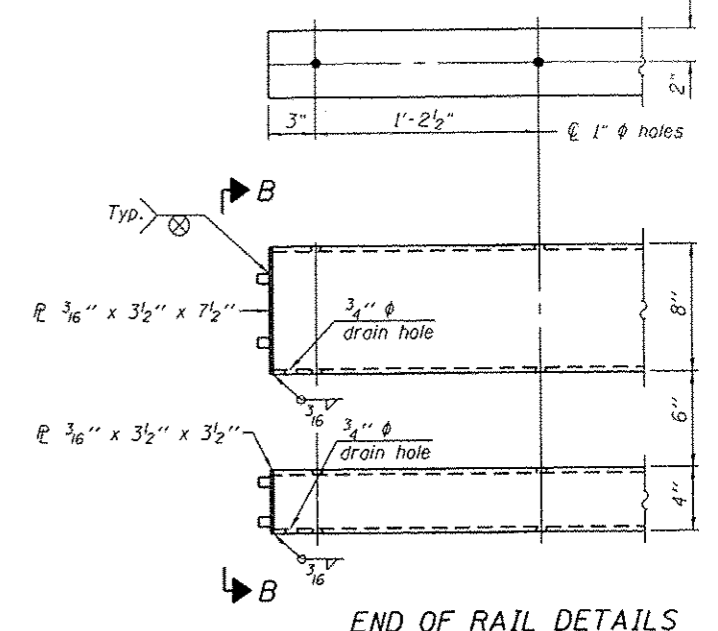
2- 1/2" ϕ x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer. 5/8" ϕ Holes in hollow structural section and post. Holes in hollow structural section may be drilled in the field.

4- 5/8" reduced base welded studs. Provide 4- 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 6310.32.

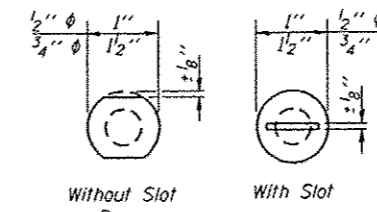
SECTION A-A



VIEW B-B



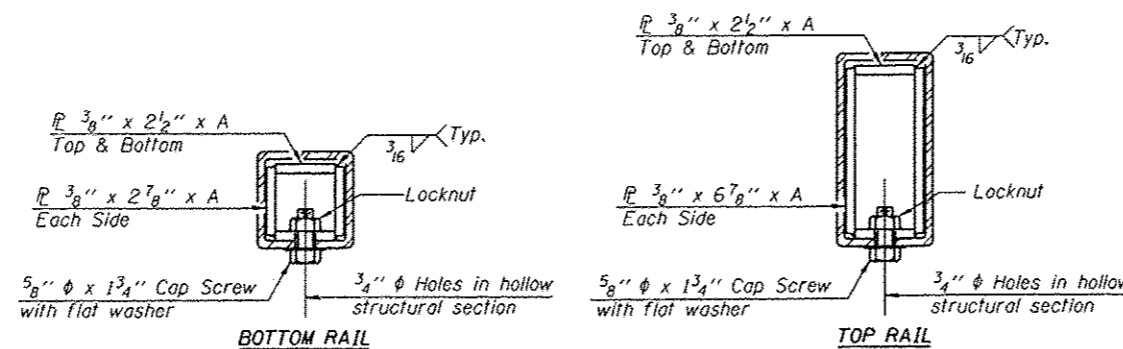
END OF RAIL DETAILS



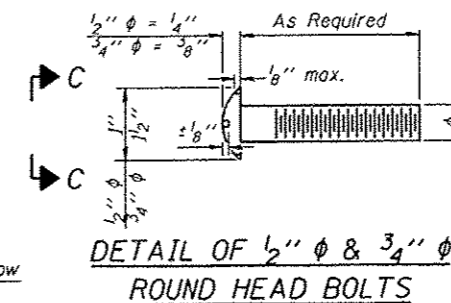
VIEW C-C

Notes:

- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
- Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.
- Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



SECTIONS AT RAIL SPLICE



DETAIL OF 1/2" ϕ & 3/4" ϕ ROUND HEAD BOLTS

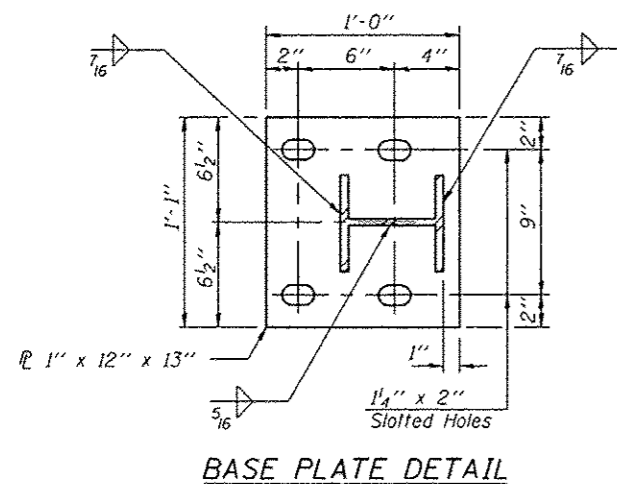
SPLICE DIMENSIONS

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

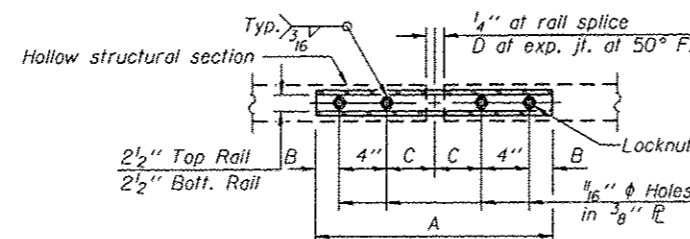
T = Total movement of expansion joint as shown on the design plans.

BILL OF MATERIAL

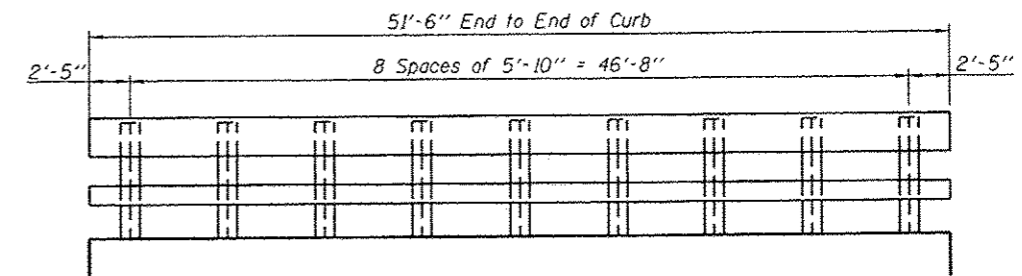
Item	Unit	Quantity
Steel Railing, Type 2399	Foot	52



BASE PLATE DETAIL

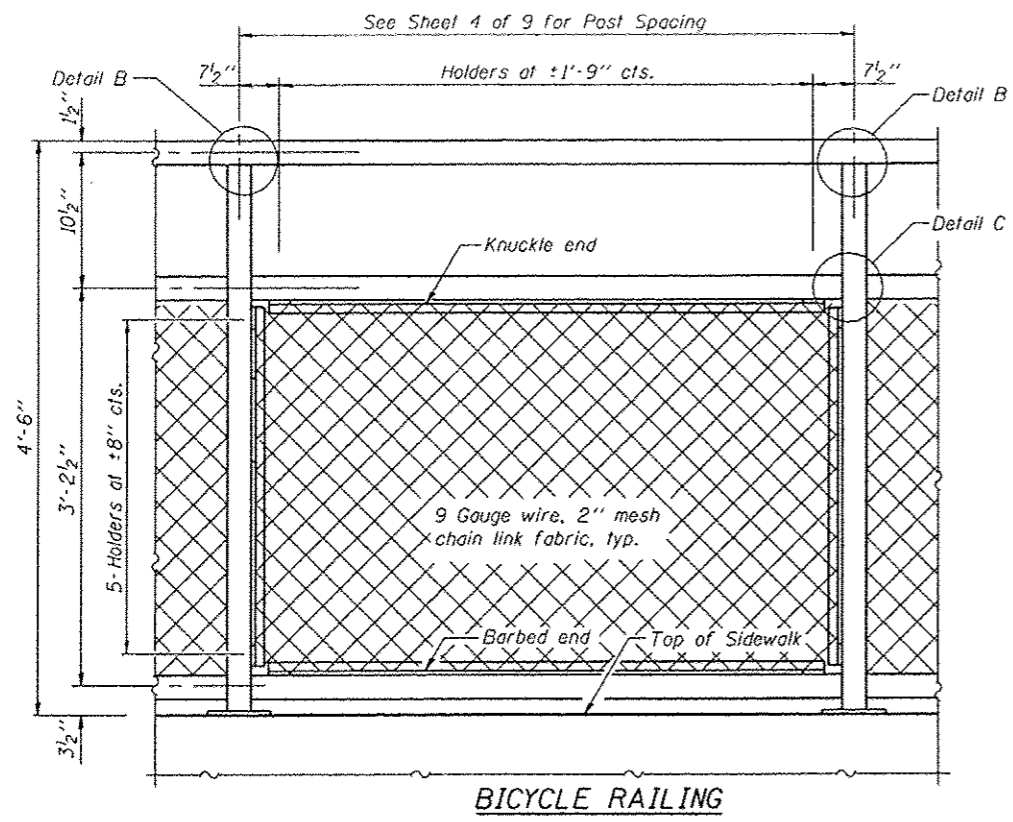


PLAN-BOTT. SPLICE TYPICAL

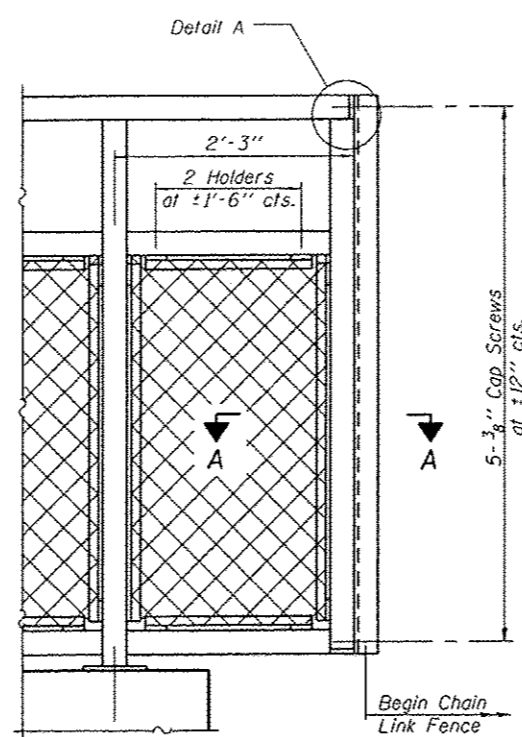


RAIL POST SPACING

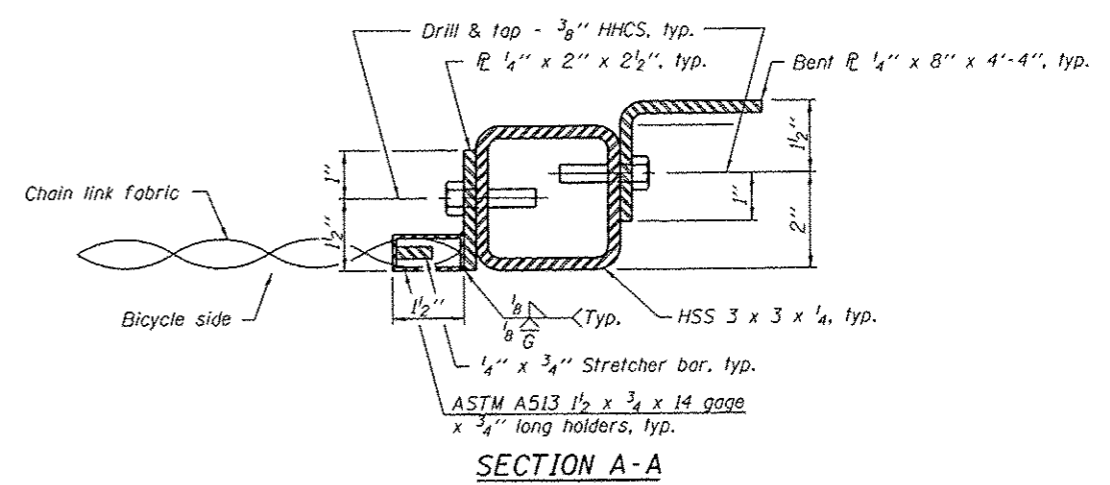
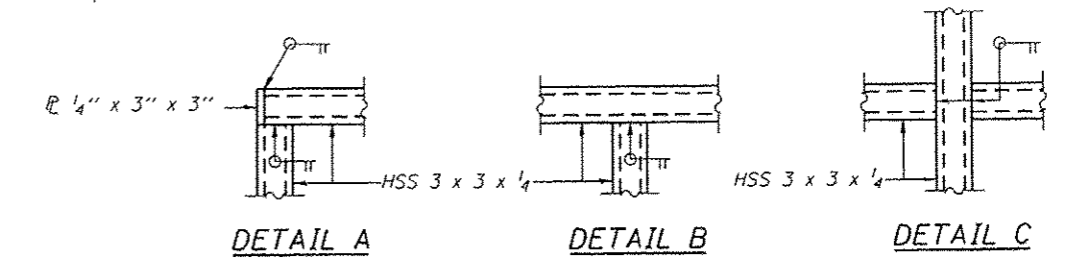
(6'-3" Maximum Post Spacing)



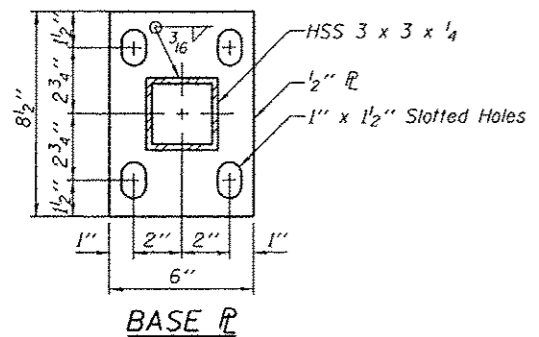
BICYCLE RAILING



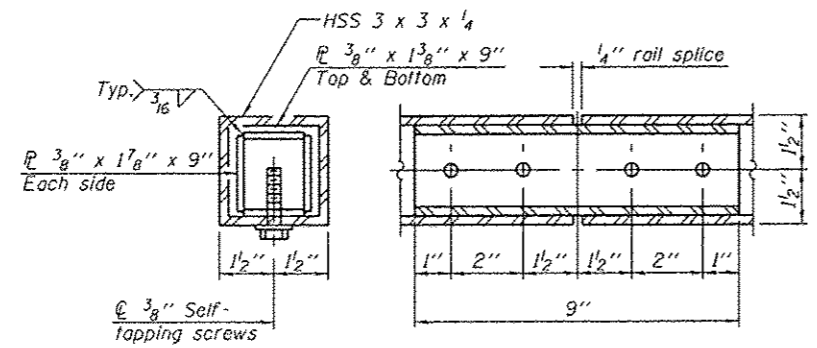
END OF BICYCLE RAILING



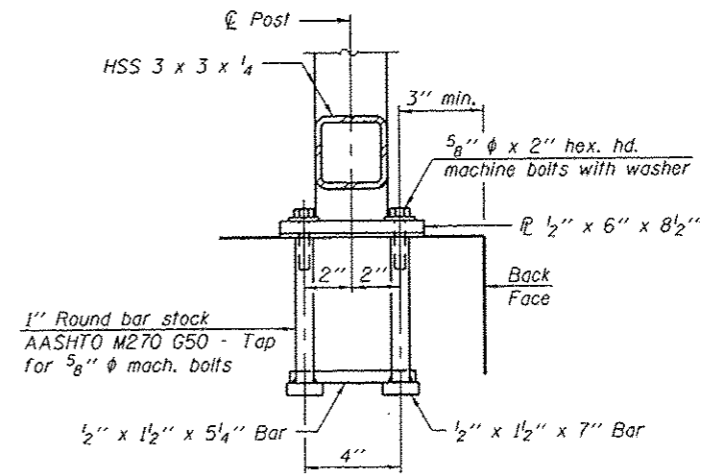
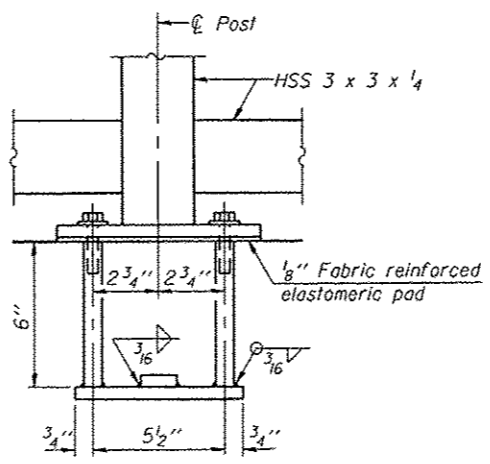
SECTION A-A



BASE PL



RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	46

Notes:
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 Placement of the first fence post off the bridge shall cover the end of the bent plate on the bicycle railing.

(10'-0" Maximum Post Spacing)

BORING NO. B-01
 DATE 07-07-09
 W. & A. FILE NO. 5010
 SHEET 1 OF 4



WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

PROJECT SHERIDAN ROAD BRIDGE-SECTION #07-00176-00-BR LOCATION Pekin, Illinois
 BORING LOCATION 5' North of NE Abutment; 6' East of Centerline DRILLED BY Fehl
 BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION None
 GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT HRS. -
 BORING DISCONTINUED AT ELEVATION (-) 46.0 Ft. GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
OIL And CHIPS	4.25"						
Brown, CA-6 SAND And GRAVEL	11.0"						
Medium To Stiff, Dark Brown SANDY CLAY With Some Fine-Grained Gravel	04	SS	2 2 3(5)	1.0	0.9	104	17
		SS	2 2 2(4)	1.3	1.1	108	14
Medium, Gray-Brown CLAY LOAM	08	SS	2 2 3(5)	1.0	0.9	104	16
Medium, Brown SANDY LOAM With Some Fine-Grained Gravel	12	SS	2 3 4(7)	1.2	0.9	107	16
Hard, Gray SILTSTONE	16	SS	21 31 41(72) 37	4.5+	4.4	115	8
		SS	55/3"	4.5+	-	-	6
Hard, Gray-Brown SANDSTONE		SS	55/2"	-	-	-	7
Hard, Blue-Gray CLAY SHALE	20	SS	27 52/6"	4.5+	4.2	115	15
		SS	65/6"	4.5+	4.7	115	13
Hard, Gray SHALE	24	SS	72/3"	-	-	-	11

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

BORING LOG

(CONTINUATION)

DATE 07-07-09

BORING NO. B-01

PROJECT Sheridan Road Bridge - Section #07-00176-00-BR
 LOCATION Pekin, Illinois

SHEET 2 OF 4
 W. & A. FILE NO. 5010

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 1 of 4							
	30	SS	55/3"	-	-	-	9
		SS	67/6"	4.5+	-	-	8
	34	SS	58/6"	4.5+	-	-	9
	38						
Hard, Gray CLAY SHALE							
	42	SS	53/6"	4.5+	5.2	116	13
		SS	64/6"	4.5+	-	-	12
EXPLORATORY BORING DISCONTINUED	46						
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

FILE NAME S:\237\2009\2378\001\SheridanRoadBridge\...	USER NAME basvanson	DESIGNED - BAS	REVISED -
CAD00\CAD0 Sheets\040\001-0306009-008-bor...	CHECKED - BAT	REVISIONS -	
PLOT SCALE - 8.1867" = 1'	DRAWN - WLL	REVISIONS -	
PLOT DATE - 10/15/2013	CHECKED - RJA/BAS	REVISIONS -	



CITY OF PEKIN

BORING LOGS
 STRUCTURE NO 090-6089
 SHEET NO. 8 OF 9 SHEETS

F.A.U. RTE. 6759	SECTION 07-00179-00-BR	COUNTY TAEWELL	TOTAL SHEETS 30	SHEET NO. 21
CONTRACT NO. 89496				
ILLINOIS FED. AID PROJECT				

BORING NO. B-02
 DATE 07-07-09
 W. & A. FILE NO. 5010
 SHEET 3 OF 4



WHITNEY & ASSOCIATES
 INCORPORATED
 2406 West Nebraska Avenue
 PEORIA, ILLINOIS 61604

BORING LOG

PROJECT SHERIDAN ROAD BRIDGE SECTION #07-00176-00-BR LOCATION Pekin, Illinois
 BORING LOCATION 6' South of SW Abutment, 6' West of Centerline DRILLED BY Fehl
 BORING TYPE Hollow Stem Auger WEATHER CONDITIONS Partly Cloudy & Mild
 SOIL CLASSIFICATION SYSTEM U.S.B.S.C. SEEPAGE WATER ENCOUNTERED AT ELEVATION (-)14.8 Ft.
 GROUND SURFACE ELEVATION 0.0 GROUND WATER ELEVATION AT 2.5 HRS. (-)20.2 Ft.
 BORING DISCONTINUED AT ELEVATION (-) 46.0 Ft. GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
OIL And CHIPS	4.0"						
Brown, CA-6 SAND And GRAVEL	12.0"						
Medium, Dark Brown SILTY CLAY With Some Coarse-Grained Sand	04	SS	1 2 2(4)	0.7	0.5	95	21
Medium, Dark Brown CLAY LOAM With Considerable Coarse-Grained Sand And Fine-Grained Gravel	08	SS	1 2 3(5)	1.0	0.8	101	18
	12	SS	2 2 2(4)	1.0	0.7	98	20
	16	SS	2 2 3(5)	1.1	0.8	100	19
Very Stiff, Gray SILTSTONE	20	SS	12 21 38(59)	4.0	3.6	115	9
Hard, Gray SANDSTONE	24	SS	15 25 47(72)	4.5+	4.3	117	7
Hard, Gray CLAY SHALE		SS	64/6"	4.5+	-	-	10
Very Stiff, Gray CLAY SHALE		SS	54/6"	4.0	3.8	113	12
Hard, Gary SHALE		SS	55/4"	4.5+	-	-	5
		SS	58/4"	4.5+	-	-	7

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

BORING NO. B-02

BORING LOG

(CONTINUATION)

DATE 07-07-09

PROJECT Sheridan Road Bridge - Section #07-00176-00-BR
 LOCATION Pekin, Illinois

SHEET 4 OF 4
 W. & A. FILE NO. 5010

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 3 of 4							
	30	SS	49/4"	-	-	-	7
	34	SS	64/4"	4.5+	-	-	6
	38	SS	54/6"	4.5+	-	-	7
	42	SS	51/4"	4.5+	-	-	7
	46	SS	61/6"	4.5+	-	-	6
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
 SS - SPLIT SPOON SAMPLE
 ST - SHELBY TUBE SAMPLE

Qp - CALIBRATED PENETROMETER READING - T.S.F.
 Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
 Dd - NATURAL DRY DENSITY - P.C.F.
 Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
 PEORIA, ILLINOIS

FILE NAME S:\237\2009\2378\001\Sheridan Rd Bridge\...	USER NAME dasonson	DESIGNED BAS	REVISED -
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE 1/8" = 1' / 1" = 10'	DRAWN WLL	REVISED -
	PLOT DATE 10/15/2013	CHECKED RJA/BAS	REVISED -



CITY OF PEKIN

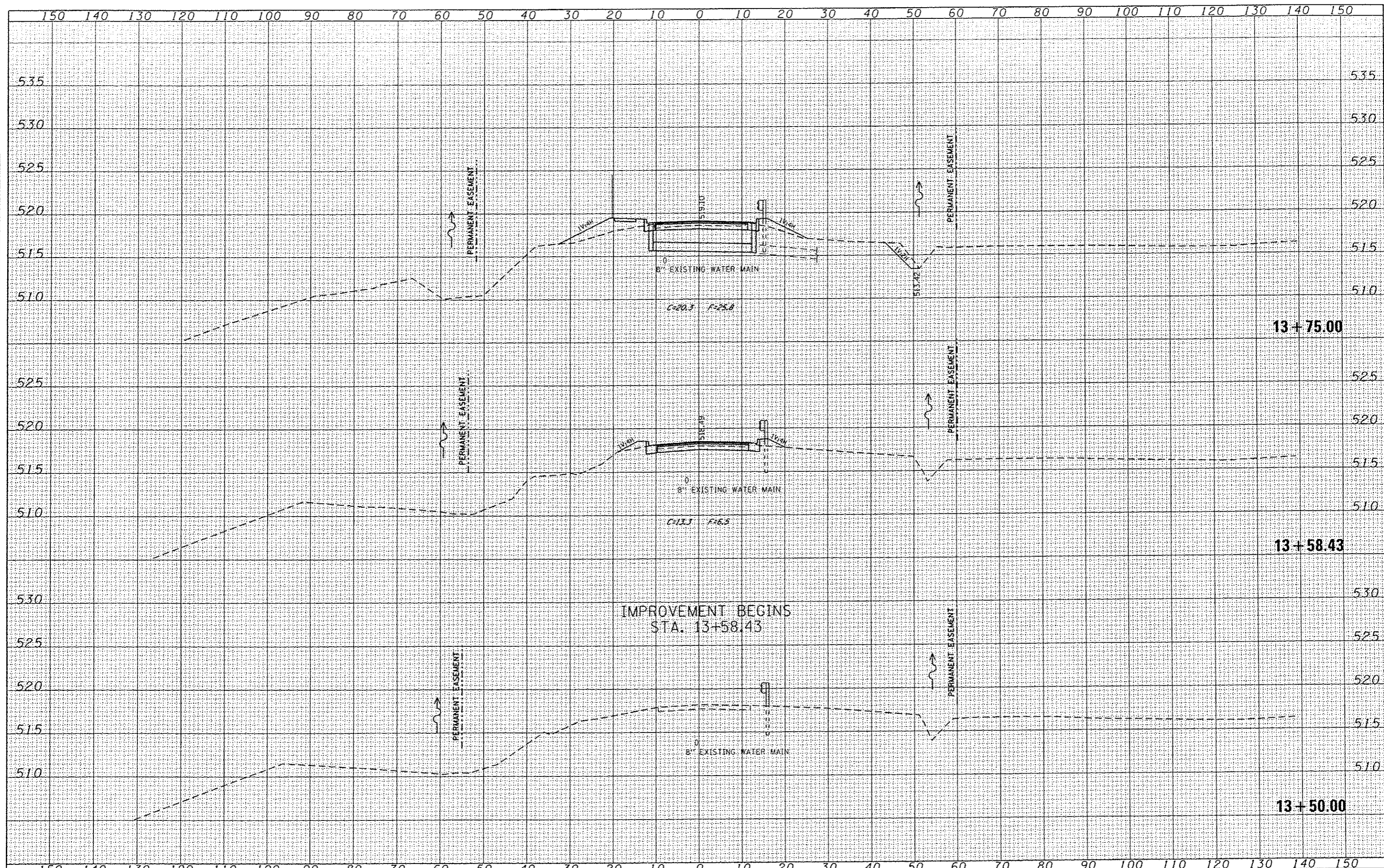
BORING LOGS
 STRUCTURE NO. 090-6089

SHEET NO. 9 OF 9 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6759	07-00179-00-BR	TAZEWELL	30	22
				CONTRACT NO. 89496
ILLINOIS FED. AID PROJECT				

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

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

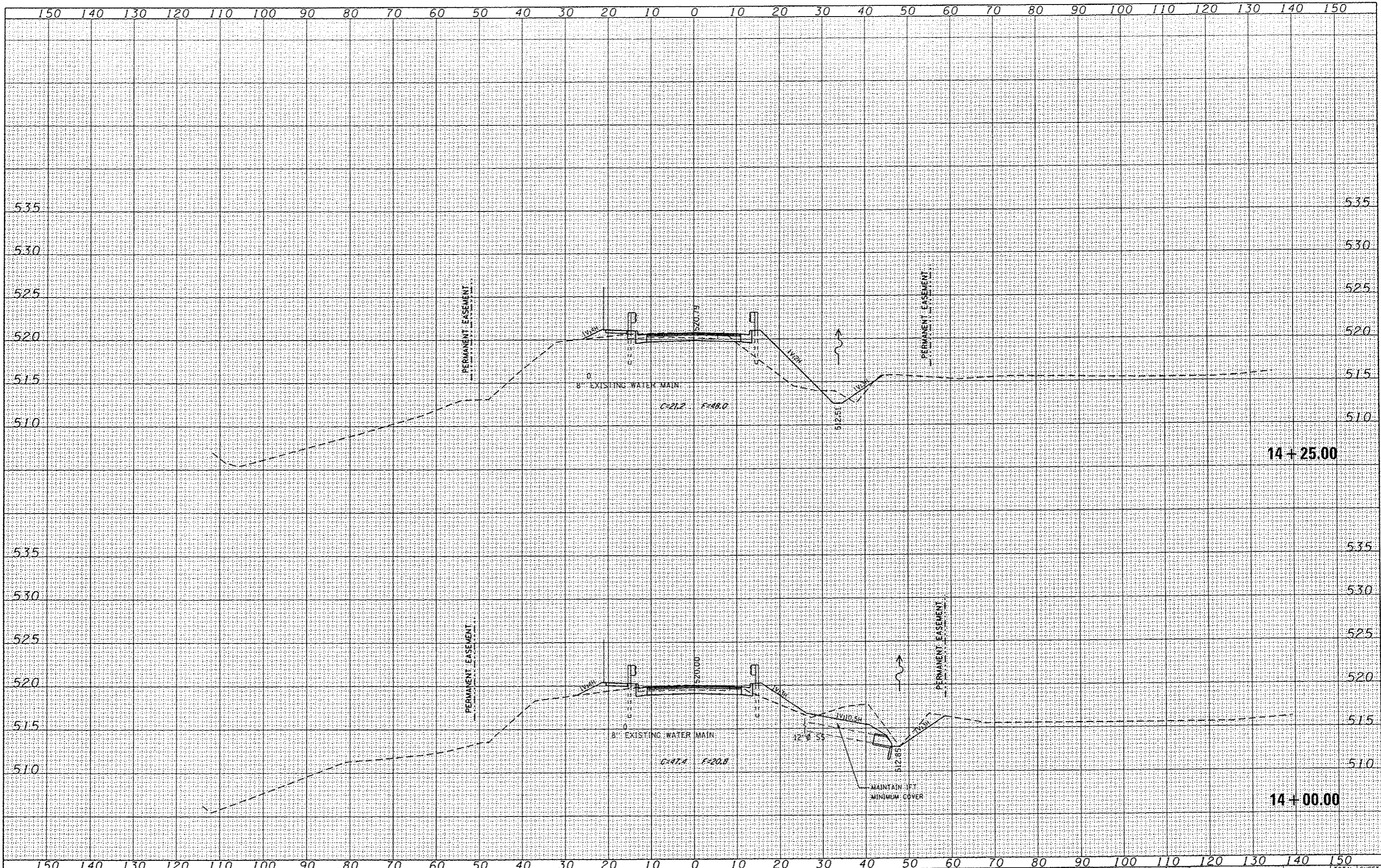


IMPROVEMENT BEGINS
STA. 13+58.43

FILE NAME	USER NAME	DESIGNED	REVISED	SHERIDAN ROAD OVER LICK CREEK				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\237\2009\23709001\SheridanRdBridgePh1\CADD	bathorer	-	-	CITY OF PEKIN				6759	07-00176-00-BR	TAZEWELL	30	23
MAURER-STUTZ ENGINEERS SURVEYORS	CADD Sheets\0491001-shr-ssc.dgn	DRAWN	REVISED	CROSS SECTIONS				SCALE:		CONTRACT NO. 89496		
	PLOT SCALE = 20,0000' / 1"	CHECKED	REVISED	SHEET NO. OF SHEETS				STA. 13+50.00 TO STA. 13+75.00		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 10/10/2013	DATE	REVISED									

DATE	
BY	
FINAL SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

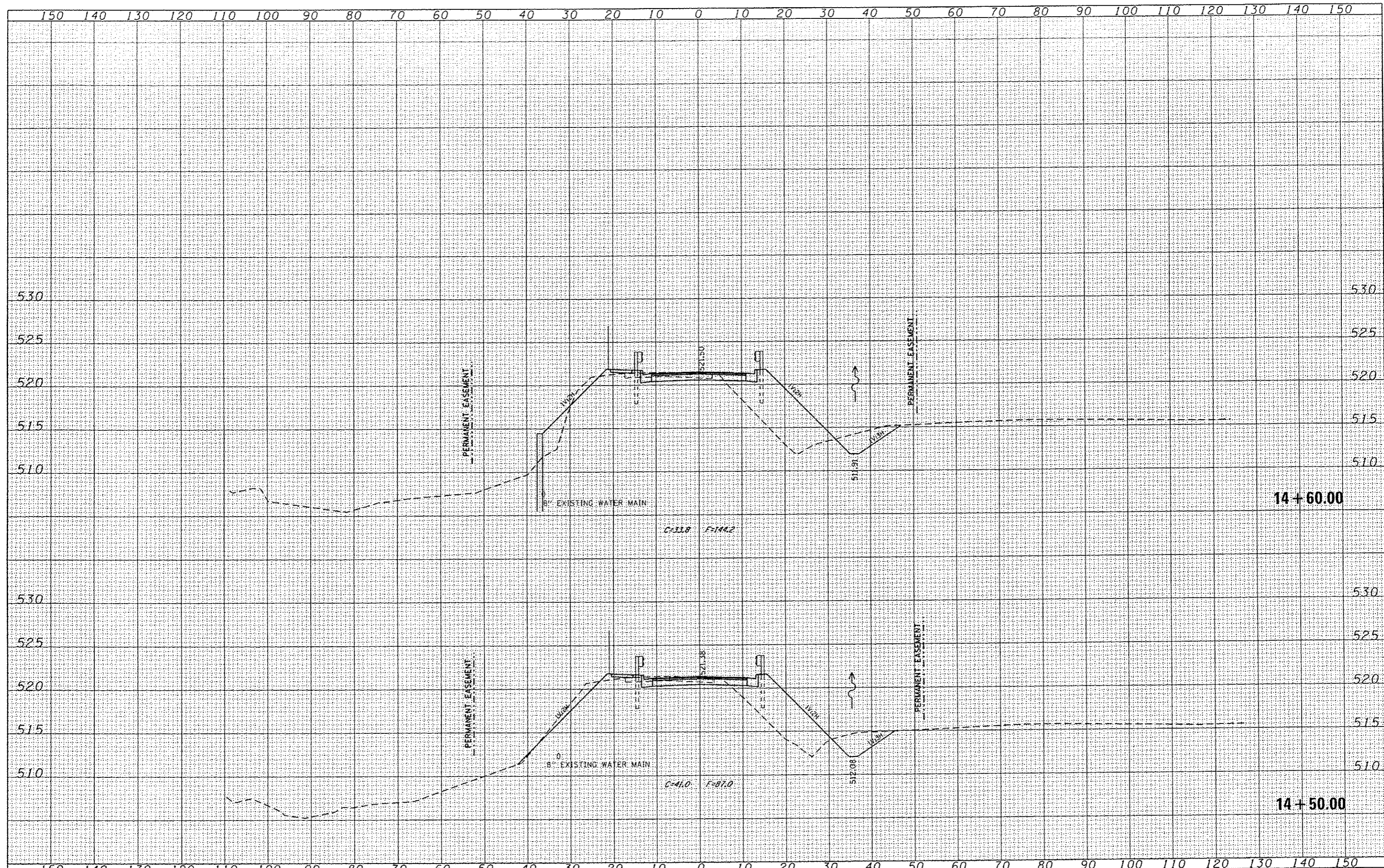
DATE	
BY	
ORIGINAL SURVEY	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



FILE NAME * S:\237\2009\23709001\SheridanRdBridgePlan\CADD\CADD Sheets\0409001-sht.asc.dgn	USER NAME * bathierar	DESIGNED -	REVISED -	<p align="center">CITY OF PEKIN</p> <p align="center">SHERIDAN ROAD OVER LICK CREEK</p> <p align="center">CROSS SECTIONS</p> <p>SCALE: SHEET NO. OF SHEETS STA. 14+00.00 TO STA. 14+25.00</p>	F.A.U. RTE. 6759	SECTION 07-00176-00-BR	COUNTY TAZEWELL	TOTAL SHEETS 30	SHEET NO. 24
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE * 20.0000 / in.	DRAWN -	REVISED -		CONTRACT NO. 89496	ILLINOIS FED. AID PROJECT			
	PLOT DATE * 10/18/2013	CHECKED -	REVISED -						
		DATE -	REVISED -						

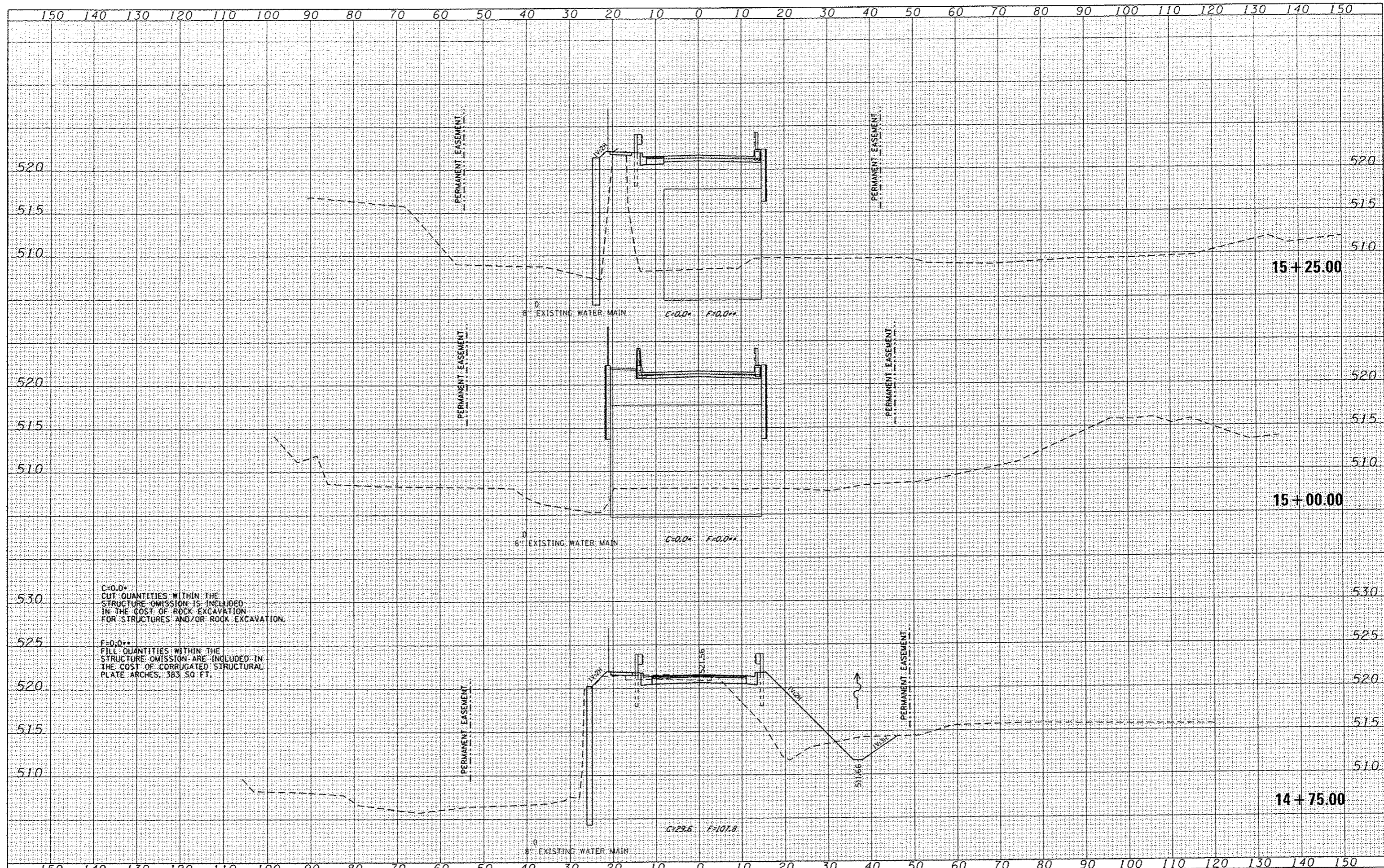
DATE	
BY	
SUPERSED	
REVISION	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SUPERSED	
REVISION	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



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

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

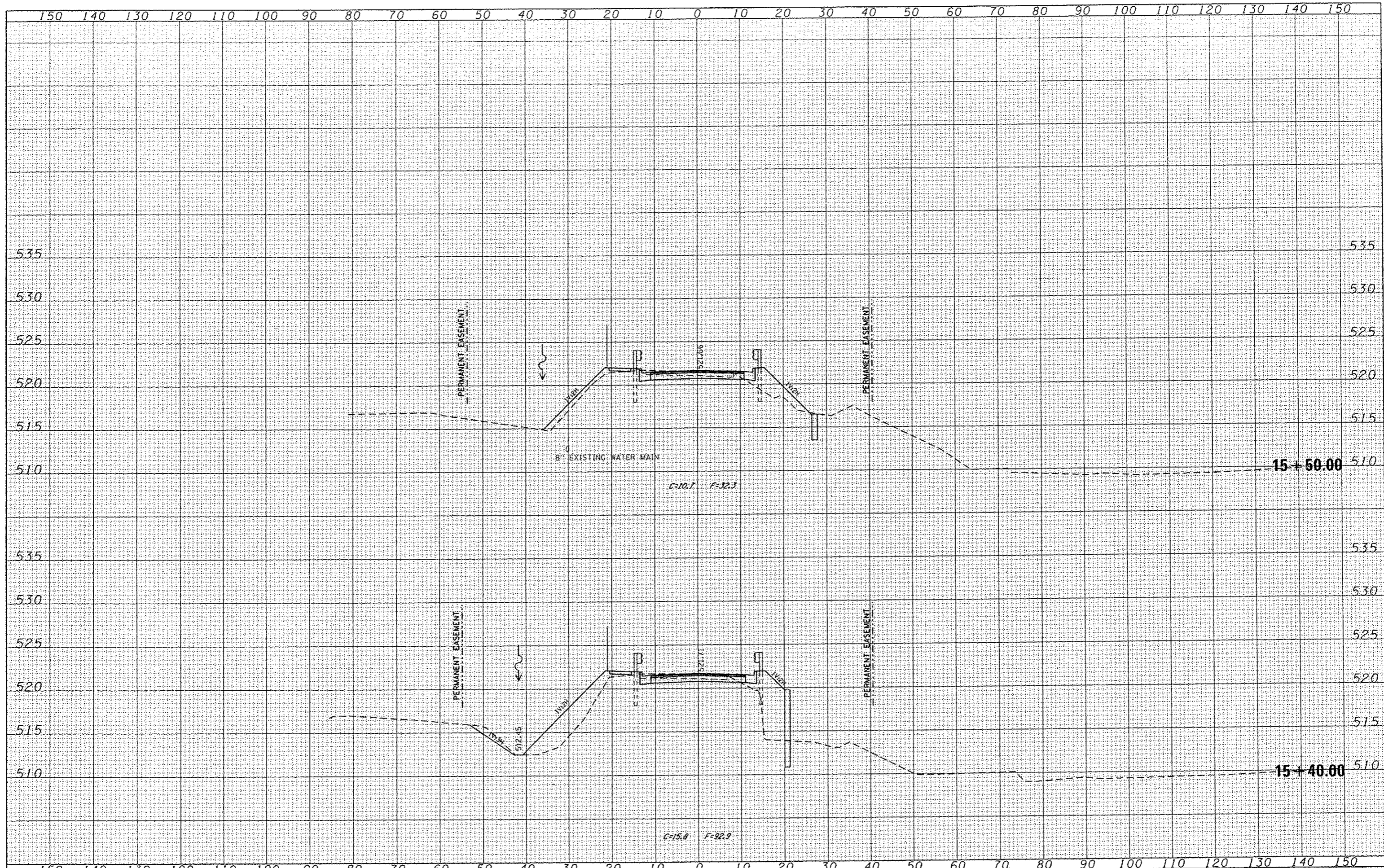


C=0.0*
CUT QUANTITIES WITHIN THE
STRUCTURE OMISSION IS INCLUDED
IN THE COST OF ROCK EXCAVATION
FOR STRUCTURES AND/OR ROCK EXCAVATION.

F=0.0**
FILL QUANTITIES WITHIN THE
STRUCTURE OMISSION ARE INCLUDED IN
THE COST OF CORRUGATED STRUCTURAL
PLATE ARCHES, 383 SQ FT.

DATE	
BY	
FINAL SURVEYED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CREATED	

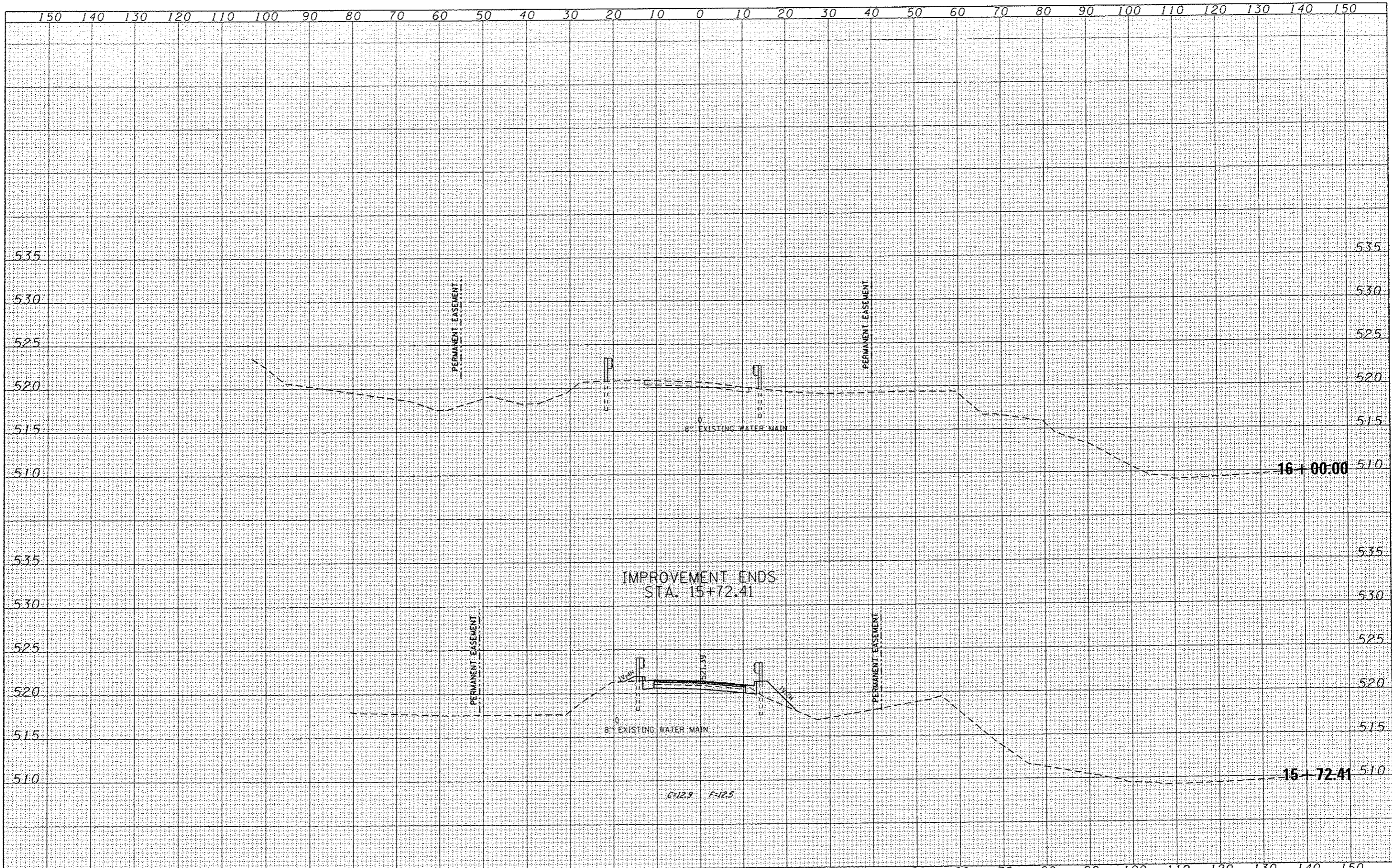
DATE	
BY	
ORIGINAL SURVEYED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CREATED	



FILE NAME = S:\237\2009\23789001\SheridanRdBridgePlan\CADD\	USER NAME = bahter	DESIGNED -	REVISED -	CITY OF PEKIN	SHERIDAN ROAD OVER LICK CREEK CROSS SECTIONS				F.A.U. RTE. 6759	SECTION 07-00176-00-BR	COUNTY TAZEWELL	TOTAL SHEETS 30	SHEET NO. 27
MAURER-STUTZ ENGINEERS SURVEYORS	PLLOT SCALE = 20,000' = 1"	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 15+40.00 TO STA. 15+50.00	CONTRACT NO. 89496				
	PLLOT DATE = 10/10/2013	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										

DATE	
BY	
FINAL SURVEY	
SAVED SURVEY	
NOTE BOOK	
AREAS CHECKED	

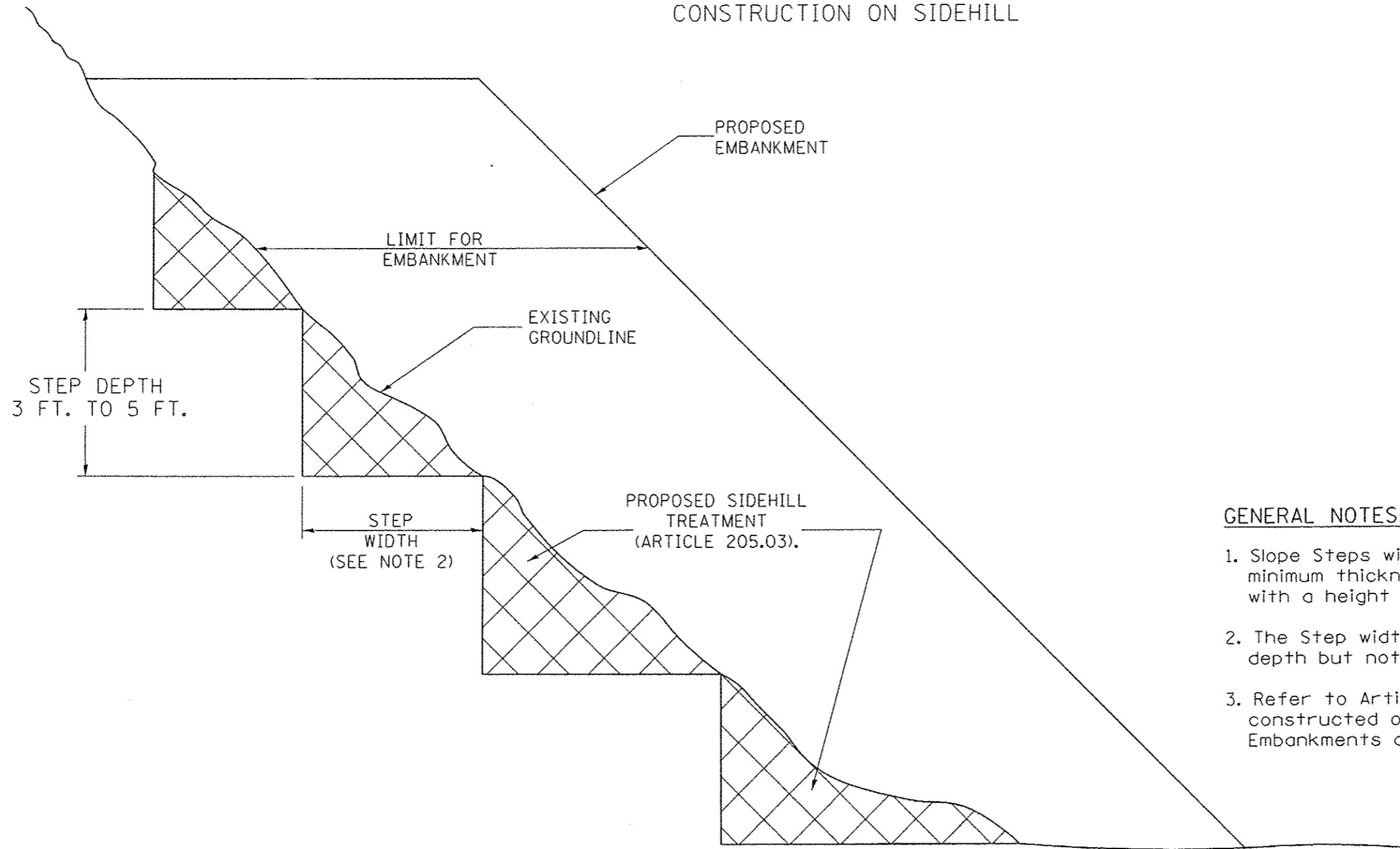
DATE	
BY	
ORIGINAL SURVEY	
SAVED SURVEY	
NOTE BOOK	
AREAS CHECKED	



FILE NAME S:\237\2009\2370\001\SheridanRdBridgePH\CAD	USER NAME bathiner	DESIGNED -	REVISED -	CITY OF PEKIN	SHERIDAN ROAD OVER LICK CREEK CROSS SECTIONS			P.A.U. RTE. 6759	SECTION 07-00176-00-BR	COUNTY TAZEWELL	TOTAL SHEETS 30	SHEET NO. 28
MAURER-STUTZ ENGINEERS SURVEYORS	CADD Sheets\04\9001-shr-asc.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 15+76.22	TO STA. 16+00.00	ILLINOIS FED. AID PROJECT CONTRACT NO. 89496	
	PLOT SCALE * 20,0000' / in.	CHECKED -	REVISED -									
	PLOT DATE * 10/10/2013	DATE -	REVISED -									

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



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.

DESIGNER NOTE:

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

CADD STD. 205001-04

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			



CITY OF PEKIN

**SHERIDAN ROAD OVER LICK CREEK
SLOPE STEPS DETAIL**

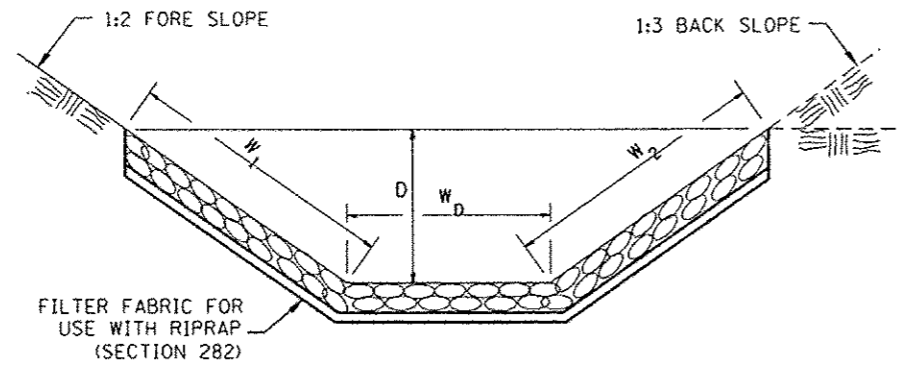
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6759	07-00176-00-BR	TAZEWELL	30	29
CONTRACT NO. 89496				

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

Designer NOTES:
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. (**) Designer to specify thickness of bedding material.
 4. Include District Special Provision if needed.

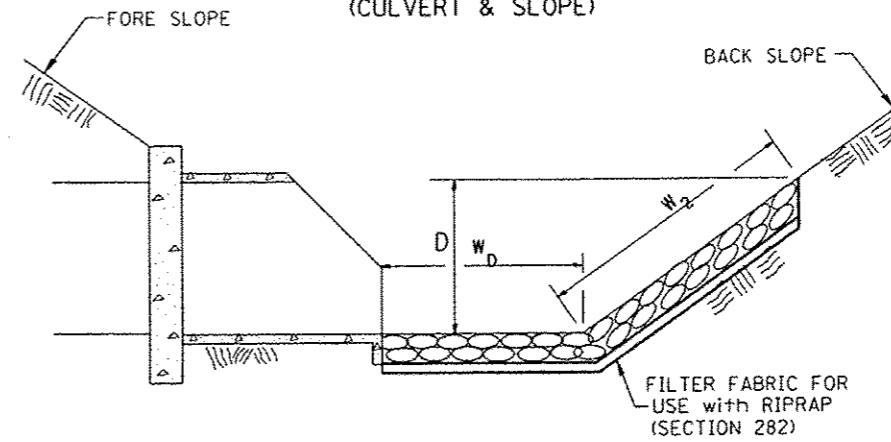
CASE 1
(DITCH)



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	sq yds (m ²)	sq yds (m ²)
13+75.00 TO 13+95.30	12.79	16.0	22.7	22.7
14+02.23 TO 14+09.90	12.79	6.75	9.6	9.6
TOTAL			32.3	32.3

(1) WIDTH = $W_1 + W_2 + W_0$

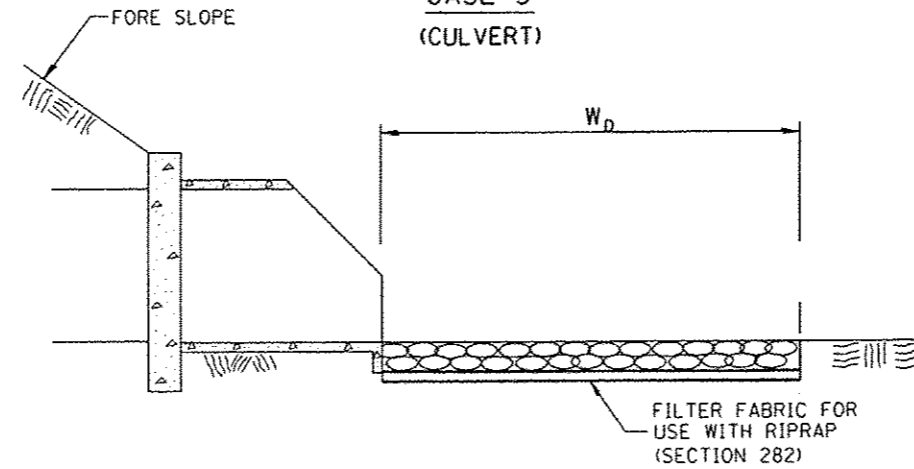
CASE 2
(CULVERT & SLOPE)



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	sq yds (m)	sq yds (m ²)
13+95.30 TO 14+02.23	8.32	6	5.5	5.5
TOTAL			5.5	5.5

(1) WIDTH = $W_2 + W_0$

CASE 3
(CULVERT)



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	sq yds (m)	sq yds (m ²)
15+58.23 TO 15+62.49	6	8	5.3	5.3
TOTAL			5.3	5.3

(1) WIDTH = W_0

NOTE:
SEE SUMMARY OF QUANTITIES SHEET 5

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise noted.

CADD STD. 281001-D4

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.	DESIGNED	-	REVISED	-											
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.	DRAWN	-	REVISED	-											
10-16-06	REVISED TO 2007 SPEC.	M.A.	CHECKED	-	REVISED	-											
			DATE	-	REVISED	-											

Pekin
ELECTRICAL
CITY OF PEKIN

SHERIDAN ROAD OVER LICK CREEK
RIPRAP DITCH FOR EROSION PROTECTION

SCALE: NOT TO SCALE SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6759	07-00176-00-BR	TAZEWELL	30	30
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 89496		