F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	1
	ILLINOIS	CONTRACT NO. 89744		

INDEX TO SHEETS

HIGHWAY STANDARD DETAIL PLANS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERT
602306-03	INLET - TYPE B
602401-06	PRECAST MANHOLE, TYPE A, 4' DIA.
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604086-03	FRAME & GRATE TYPE 23
606001-07	CONC. CURB TYPE B & COMB. CONC. CURB & GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHLDR WIDENING FOR TY 1 GUARDRAIL TERMINAL
631031-15	TRAFFIC BARRIER TERMINAL TYPE 6
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM EOP
701201-05	LANE CLOSURE, 2L, 2W - DAY ONLY
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNT DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 22-7	TYP APPL OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)
BLR 24-2	MAILBOX TURNOUT FOR LOCAL ROADS

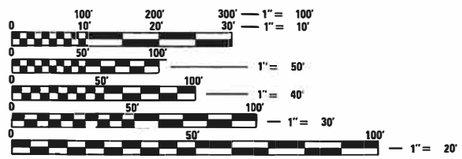
AVERAGE DAILY TRAFFIC (ADT)

SMITHVILLE ROAD (CH D52): 775 VPD (2017)

DESIGN SPEED: 40 MPH
RURAL CONDITION

FUNCTIONAL CLASSIFICATION

COLLECTOR (RURAL) - SMITHVILLE ROAD



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

PEORIA COUNTY ENGINEER: AMY BENECKE MCLAREN, P.E.

CONTRACT NO. 89744
CATALOG NO. 035570-00D

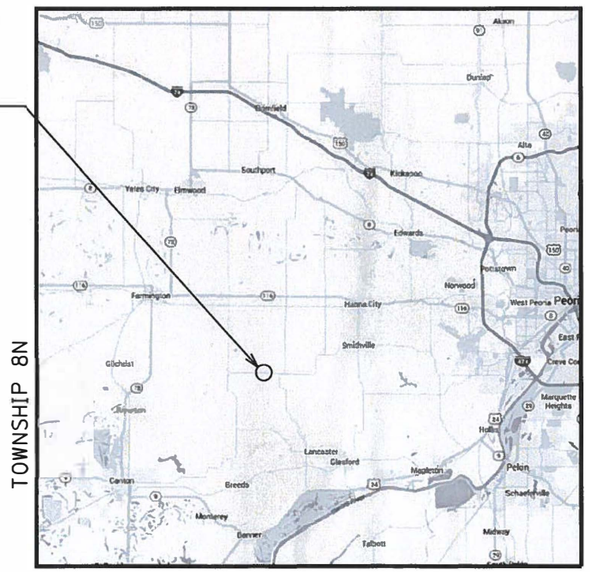
FINAL
AUGUST 9, 2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. 1381 SMITHVILLE ROAD COUNTY HIGHWAY (CH D52) STRUCTURE REPLACEMENT

SECTION 14-00005-05-BR
PROJECT V1RV(937)
C-94-039-18
PEORIA COUNTY

PROJECT LOCATION
EXISTING SN 072-3046
PROPOSED SN 072-3155
COUNTY HIGHWAY D52
OVER COPPERAS CREEK



LOCATION MAP

SMITHVILLE ROAD (CH D52) GROSS/NET LENGTH : 760 L.F. (0.14 MILES)
STRUCTURE LENGTH : 91 L.F.

LOCATION OF SECTION INDICATED THUS: –■–

LICENSED STRUCTURAL ENGINEER
LEONARDO MARCATELLI
081-006320
STATE OF ILLINOIS

DATE SIGNED : 8/6/2019
LIC. EXP. DATE : 11/30/2020

STRUCTURAL ENGINEERS SEAL APPLIES TO PLAN SHEETS 15 TO 29.

LICENSED PROFESSIONAL ENGINEER
EMILY M. MUNDAY
062-064653
STATE OF ILLINOIS

DATE SIGNED : 8/6/19
LIC. EXP. DATE : 11/30/2019

AGENCY RESPONSIBLE FOR LETTING

APPROVED August 6 2019
LOCAL AGENCY, PEORIA COUNTY ENGINEER

PASSED 08-26 2019
DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW August 26 2019
REGION 3 ENGINEER

CMT
License No. 184-000613

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM. HORIZONTAL IS BASED ON NAD83 ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE.

2. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

3. THE CONTRACTOR MUST CONTACT J.U.L.I.E. AT LEAST 48 HOURS BEFORE EXCAVATING ANY MATERIAL OR BORING OPERATIONS. THE FOLLOWING UTILITY COMPANIES HAVE BEEN CONTACTED AND THEIR EXISTING FACILITIES ARE SHOWN ON THESE PLANS BASED ON UTILITY RECORDS. THE CONTRACTOR SHALL NOT ASSUME THE UTILITIES SHOWN ARE ACCURATE AND COMPLETE.

   SPOON RIVER ELECTRIC COOP; MARK BALBINOT (309-647-2700 X230)

   AT&T; NATHAN CIOTA (309-686-3333)

4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OF THE CONSTRUCTION SCHEDULE PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THESE FACILITIES FROM DAMAGE DURING CONSTRUCTION OF THE IMPROVEMENTS.

5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES TO CAUSE THE ADJUSTMENT, RELOCATION, OR REMOVAL OF EXISTING UTILITIES AS NECESSARY TO ALLOW CONSTRUCTION OF THE PROPOSED IMPROVEMENTS IDENTIFIED IN THESE PLANS. ALL UTILITY FACILITIES THAT REQUIRE RELOCATION WITHIN THE R.O.W. SHALL BE COMPLETED BY THE UTILITY COMPANY UNLESS OTHERWISE SHOWN ON THE PLANS.

6. ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS AND NOT PART OF THE WORK AS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION TO THE SATISFACTION OF PEORIA COUNTY AT NO ADDITIONAL COMPENSATION TO TO THE CONTRACTOR. IT IS INCUMBENT UPON THE CONTRACTOR TO SHOW THAT DAMAGED AREAS WERE NOT DISTURBED BY CONSTRUCTION OPERATIONS.

7. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM FIELD SURVEYS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.

8. RECLAIMED ASPHALT PAVEMENT (RAP) SHALL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS.

9. WHEN CONCRETE REMOVAL IS REQUIRED, IT MUST BE ACCOMPLISHED BY SAW CUT, SLEDGES, AND PNEUMATIC HAND TOOLS. EQUIPMENT AND METHODS USED MUST BE SUCH AS TO PREVENT CRACKING, SHATTERING, OR SPALLING OF CONCRETE THAT IS TO REMAIN.

10. ALL HMA PAVEMENT SURFACE COURSES, CONCRETE BASE COURSES, CONCRETE PAVEMENTS, CURBS, GUTTERS, AND SIDEWALKS WHICH ARE TO BE REMOVED MUST BE SAW CUT AT THE LIMITS OF REMOVAL TO AVOID DAMAGE TO ADJACENT PROPERTIES.

11. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PROPERTIES IMPACTED BY THE CONSTRUCTION OF THESE IMPROVEMENTS AT ALL TIMES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING WITH EACH AFFECTED PROPERTY OWNER TO MAKE ARRANGEMENTS FOR ACCESS NEEDS TO THE PROPERTY.

12. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE, AND RE-INSTALLATION OF ALL EXISTING SIGNAGE, OTHER ITEMS THAT ARE IMPACTED BY THIS CONTRACT AND ARE NOT SHOWN AS BEING REPLACED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY OF THESE ITEMS THAT ARE DAMAGED AS A RESULT OF THIS CONTRACT AT NO ADDITIONAL COST. THE REMOVAL AND RE-INSTALLATION OF THESE ITEMS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CONTRACT.

13. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES THAT ARE IN CONFLICT WITH CONSTRUCTION TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR COVERED BY THE CONTRACTOR ONCE THE CONSTRUCTION TRAFFIC CONTROL SYSTEM IS IN PLACE. ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED SIGNS OR DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.

14. EXISTING TRAFFIC CONTROL AND ROADSIDE SIGNS REMOVED DURING CONSTRUCTION SHALL BE RE-INSTALLED BEFORE THE ROAD IS OPENED TO TRAFFIC.

15. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES NEEDED DURING CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN.

16. CARE MUST BE TAKEN FOR ANY EARTH EXCAVATION NEAR EXISTING TREES TO REMAIN SO THAT DAMAGE TO THE TREE ROOTS DOES NOT OCCUR. CONTRACTOR SHALL PRUNE TREE ROOTS AS REQUIRED FOR EMBANKMENT AND EXCAVATION WORK. COSTS FOR TREE ROOT PRUNING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

17. SECTION/SUBSECTION AND R.O.W. MARKERS SHALL BE PROTECTED. IF MARKERS ARE DISTURBED BY CONSTRUCTION, A LICENSED PLS SHALL REPLACE THE MARKER IN ACCORDANCE WITH ACCEPTED STANDARDS OF PRACTICE.

18. DRAINAGE END SECTION STATIONS, OFFSETS, AND ELEVATIONS ARE GIVEN AT THE CENTER OF TOE.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AND LOCAL POST MASTER ON AN ACCEPTABLE METHOD FOR MAIL SERVICE DURING CONSTRUCTION. TEMPORARY MAILBOX FACILITIES MAY BE REQUIRED TO BE FURNISHED BY THE CONTRACTOR. ALL EXISTING MAILBOXES SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR. THE COST OF THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR RELOCATE EXISTING MAILBOX.

UTILITY POLES WITHIN GRADING LIMITS

STATION	OFFSET	EXIST. GROUND ELEVATION	PROP. GROUND ELEVATION	DIFFERENCE (FEET)	OWNER
95+87	80.2' RT	603.60	606.50	+2.90	SPOON RIVER
97+20	17.5' RT	TO BE REMOVED			AT&T
98+27	18.3' RT	TO BE REMOVED			AT&T

DISTRICT FOUR GENERAL NOTES

1. ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES. (107.09)

2. THE PEORIA COUNTY HIGHWAY DEPARTMENT SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS. (201.04)

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. (542.00)

4. 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.

   THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
   - BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BURROW AREAS)
   - BDE FORM 2290 (WASTE/USE AREA REVIEW)
   - A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
   - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
   - BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL 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.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES. (204.00)

COMMITMENTS

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

1. TREES THREE INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30 INCLUSIVE.

2. LOCAL EMERGENCY SERVICES, SCHOOL DISTRICTS, POST OFFICES, ETC. SHALL BE NOTIFIED OF ROAD CLOSURE PRIOR TO CONSTRUCTION.

3. DEPARTMENT OF TRANSPORTATION BRIDGE/STRUCTURE ASSESSMENT FOR EVIDENCE OF BATS SHALL BE COMPLETED PRIOR TO START OF CONSTRUCTION.

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2030

PV = 90% SU = 6% MU = 4%

ROAD/STREET CLASSIFICATION: CLASS III

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 100% S = 100% M = 100%

TRAFFIC FACTOR: ACTUAL TF = 0.176 MINIMUM TF = N/A

PG GRADE: TOP BINDER = 64-22 LOWER BINDER = 64-22

SURFACE = 58-28

SUBGRADE SUPPORT RATING:

SSR = POOR (STA. 94+00 TO 101+60

HMA MIXTURE REQUIREMENTS TABLE

THE FOLLOWING HMA MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATIONS:	SMITHVILLE ROAD	
MIXTURE USES:	HMA SURFACE	HMA BINDER
PG:	58-28	64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0
FRICTION AGGREGATE	MIX C	N/A
MIXTURE WEIGHT:	116 LB/SQ YD/IN	116 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA
SUBLOT SIZE:	N.A.	N.A.
NUMBER OF ROLLER PASSES:	N.A.	N.A.

BITUMINOUS MATERIALS APPLICATION RATES

SURFACE TYPE	RESIDUAL RATE ON PAVEMENT
AGGREGATE BASE	0.25 LB/SF
MILLED HMA OR PCC	0.08 LB/SF
FOG COAT ON NEW HMA	0.05 LB/SF

DIRECTORY = L:\PCH01605\01\00\Draw\CADD_Sheets\...
USER NAME = Emily Munday

CMT
License No. 184-000613

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: NA | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	2
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	RURAL STP-BRIDGE TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL/ 20% LOCAL BRIDGE 0010 S.N. 072-3155
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	262	262
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36
20200100	EARTH EXCAVATION	CU YD	780	780
20400800	FURNISHED EXCAVATION	CU YD	1558	1558
20800150	TRENCH BACKFILL	CU YD	15	15
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5248	5248
25000210	SEEDING, CLASS 2A	ACRE	0.7	0.7
25000300	SEEDING, CLASS 3	ACRE	0.4	0.4
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99	99
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99	99
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99	99
25100127	MULCH, METHOD 3A	ACRE	1.9	1.9
25301800	SEEDLINGS	UNIT	0.9	0.9
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1980	1980
28000305	TEMPORARY DITCH CHECKS	FOOT	295	295
28000400	PERIMETER EROSION BARRIER	FOOT	1293	1293
28000500	INLET AND PIPE PROTECTION	EACH	6	6
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	575	575
28100109	STONE RIPRAP, CLASS A5	SQ YD	1253	1253
28200200	FILTER FABRIC	SQ YD	1253	1253
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	1248	1248
40200200	AGGREGATE SURFACE COURSE, TYPE A	CU YD	40	40
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3827	3827
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1531	1531
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1701	1701
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	42	42
44000100	PAVEMENT REMOVAL	SQ YD	1627	1627
44004000	PAVED DITCH REMOVAL	FOOT	169	169
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	499	499
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	134	134

Δ SPECIALTY ITEM * SPECIAL PROVISION

	CODE NO.	ITEM	UNIT	RURAL STP-BRIDGE TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL/ 20% LOCAL BRIDGE 0010 S.N. 072-3155
	50200100	STRUCTURE EXCAVATION	CU YD	73	73
	50300225	CONCRETE STRUCTURES	CU YD	62	62
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	139	139
	50300260	BRIDGE DECK GROOVING	SQ YD	531	531
	50300300	PROTECTIVE COAT	SQ YD	686	686
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	101	101
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
	50500505	STUD SHEAR CONNECTORS	EACH	1335	1335
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	78920	78920
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	340	340
	51202305	DRIVING PILES	FOOT	340	340
	51203800	TEST PILE STEEL HP14X73	EACH	2	2
	51204650	PILE SHOES	EACH	12	12
	51500100	NAME PLATES	EACH	1	1
	52100520	ANCHOR BOLTS, 1"	EACH	20	20
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2
	54261718	STEEL FLARED END SECTIONS 18"	EACH	2	2
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	34	34
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	51	51
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	213	213
*	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	267	267
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	77	77
	60240327	INLETS, TYPE B, TYPE 23 FRAME AND GRATE	EACH	2	2
*	60601805	CONCRETE CURB TRANSITION	FOOT	15	15
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	135	135
	60608582	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	61	61
	60615400	PAVED DITCH, TYPE A-15	FOOT	79	79
Δ	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	191	191
Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4

Δ SPECIALTY ITEM * SPECIAL PROVISION

	CODE NO.	ITEM	UNIT	RURAL STP-BRIDGE TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL/ 20% LOCAL BRIDGE 0010 S.N. 072-3155
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	5
	67100100	MOBILIZATION	L SUM	1	1
Δ	72000100	SIGN PANEL - TYPE 1	SQ FT	6	6
Δ	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
Δ	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	12	12
Δ	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1952	1952
Δ	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	3	3
*	X0323261	TEMPORARY SEDIMENT BASIN	EACH	1	1
*	X0327301	RELOCATE EXISTING MAILBOX	EACH	2	2
*	X2010510	CLEARING AND GRUBBING	L SUM	1	1
*	X6022230	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	3	3
*	X7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1
*	X7240300	SIGN REMOVAL	EACH	5	5
Δ *	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1,952	1952
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
*	Z0016702	DETOUR SIGNING	L SUM	1	1
*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	114	114
	Z0076600	TRAINEES	HR	1,000	
	Z0076604	TRAINEES TPG	HR	1,000	

▲SPECIALTY ITEM *SPECIAL PROVISION

DIRECTORY : L:\PCHD\165530100\Draw\CADD_Sheets\
USER NAME : Emily Munday

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SCHEDULE OF QUANTITIES SMITHVILLE ROAD STRUCTURE REPLACEMENT	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1381	14-00005-05-BR	PEORIA	46	3
			CONTRACT NO. 89744		
SCALE: NA SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION	STRUCTURE EXCAVATION
		20200100				20400800	50200100
STATION TO STATION		CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
94+00.00	94+50.00	36.9	27.6	1.6	+26.1	-26.1	
94+50.00	94+57.30	5.1	3.8	0.5	+3.3	-3.3	
94+57.30	94+64.80	6.3	4.7	0.7	+4.0	-4.0	
94+64.80	95+00.00	19.8	14.9	102.6	-87.7	+87.7	
95+00.00	95+50.00	6.2	4.7	387.2	-382.6	+382.6	
95+50.00	96+00.00	4.4	3.3	471.8	-468.4	+468.4	
96+00.00	96+50.00	4.6	3.5	450.4	-446.9	+446.9	
96+50.00	97+00.00	28.7	21.5	412.3	-390.8	+390.8	41.0
97+00.00	97+50.00						
97+50.00	98+00.00	16.5	12.4	81.0	-68.6	+68.6	32.0
98+00.00	98+50.00	13.5	10.1	54.0	-43.9	+43.9	
98+50.00	99+00.00	43.0	32.2	149.2	-116.9	+116.9	
99+00.00	99+10.19	9.7	7.3	6.8	+0.4	-0.4	
99+10.19	99+50.00	81.5	61.1	11.8	+49.3	-49.3	
99+50.00	100+00.00	160.7	120.6	5.8	+114.7	-114.7	
100+00.00	100+50.00	162.7	122.0	3.5	+118.5	-118.5	
100+50.00	100+98.49	115.5	86.6	2.4	+84.2	-84.2	
100+98.49	101+00.00	2.4	1.8	0.1	+1.7	-1.7	
101+00.00	101+50.00	62.8	47.1	1.7	+45.4	-45.4	
	TOTALS	780.0	585.0	2143.0	-1558.0	1558.0	73.0

TREE REMOVAL SCHEDULE

STATION	OFFSET	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
		20100110	20100210
		UNIT	UNIT
94+71.72	40.3' LT	6	
94+74.00	42.9' LT	12	
94+93.31	61.8' LT	9	
94+93.51	66.6' LT	11	
94+95.82	34.8' LT	7	
94+99.38	36.5' LT	13	
95+12.60	56.3' LT	8	
95+25.24	63.7' LT		20
95+31.81	48.0' LT	8	
95+56.27	40.3' LT	8	
95+60.89	54.1' LT	9	
95+66.39	27.9' LT		16
96+00.68	69.7' LT	15	
96+00.63	40.1' LT	10	
96+03.47	67.2' LT	8	
96+13.85	41.4' LT	8	
96+14.99	38.7' LT	7	
96+14.99	38.7' LT	8	
96+27.97	65.7' LT	13	
96+72.68	60.3' LT	12	
97+20.95	53.0' LT	9	
97+88.61	41.5' RT	7	
100+07.60	41.5' LT	7	
100+07.60	41.5' LT	7	
100+09.85	46.0' LT	7	
100+11.75	45.4' LT	10	
100+33.51	69.4' LT	11	
100+43.66	60.1' LT	8	
100+81.64	34.8' LT	7	
100+81.64	34.8' LT	6	
101+05.11	40.0' LT	11	
	TOTAL:	262	36

DRAINAGE PIPE SCHEDULE

PIPE NO.	UPSTREAM STRUCTURE NO.	UPSTREAM INVERT	DOWNSTREAM STRUCTURE NO.	DOWNSTREAM INVERT	LENGTH	SLOPE	DIAMETER	TYPE
P01	S04	606.04	S03	605.00	58'	1.6%	18"	RCP, STORM CL A, TYPE 2
P02	S05	607.50	S04	606.24	21'	6.0%	12"	RCP, STORM CL A, TYPE 2
P03	S08	610.70	S05	609.50	30'	4.0%	12"	RCP, STORM CL A, TYPE 2
P04	S01	616.00	S02	605.82	107'	9.0%	18"	RCP, STORM CL A, TYPE 2
P05	S07	611.62	S06	609.93	34'	4.3%	18"	P CUL CL D, TYPE 1
P06	S09	617.25	S10	612.39	48'	9.0%	18"	RCP, STORM CL A, TYPE 2

DRIVEWAY PAVEMENT SCHEDULE

STATION	OFFSET	AGGREGATE SURFACE COURSE, TYPE A •
		40200200
		CU YD
94+57.30	LT	11.1
94+64.80	RT	11.5
99+10.19	LT	11.2
100+98.49	RT	6.0
	TOTAL:	40

• CRUSHED LIMESTONE WHITE ROCK TO BE PLACED AT 8" THICKNESS.

PROPOSED DRAINAGE STRUCTURE SCHEDULE

STRUC. NO.	STATION	OFFSET	PAY ITEM DESCRIPTION	RIM ELEV.	STRUCTURE BOTTOM ELEVATION
S01	94+41.74	31.2' RT	MAN TA 4 DIA SPL F&G	626.00	616.00
S02	95+50.00	70.0' RT	PRC FLAR END SEC 18"		605.82
S03	98+05.20	36.3' LT	PRC FLAR END SEC 12"		605.00
S04	98+71.00	36.3' LT	MAN TA 4 DIA SPL F&G	609.07	606.04
S05	98+70.97	16.3' LT	INLET, TY B, TYPE 23 F&G	615.80	607.50
S06	98+89.44	38.8' LT	STEEL FL END SEC 18"		609.93
S07	99+27.72	31.5' LT	STEEL FL END SEC 18"		611.62
S08	98+70.97	16.3' RT	INLET, TY B, TYPE 23 F&G	615.80	610.70
S09	94+38.00	29.5' LT	MAN TA 4 DIA SPL F&G	625.70	617.25
S10	94+90.13	50.1' LT	PRC FLAR END SEC 18"		612.39

• END SECTION STATION, OFFSET AND ELEVATION GIVEN AT CENTER OF TOE.

MAILBOX SCHEDULE

STATION	OFFSET	RELOCATE EXISTING MAILBOX
		X0327301
		EACH
98+94.30	17.62	1
101+14.36	21.22	1
	TOTAL:	2

SIGN REMOVAL

STATION	OFFSET	SIGN REMOVAL
		X7240300
		EACH
96+45.44	19.9' RT	1
97+15.53	13.9' LT	1
97+20.47	13.5' RT	1
98+24.85	13.7' LT	1
98+29.35	14.0' RT	1
	TOTAL:	5

NEW SIGN SCHEDULE

STATION	OFFSET	SIGN TYPE		SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
				72000100	72800100
				SQ FT	FOOT
96+42.05	22.3' RT	W14-3	"NO PASSING ZONE"	5.6	12
			TOTAL:	6	12

RIPRAP SCHEDULE

STATION		STATION	OFFSET	STONE RIPRAP, CLASS A5	FILTER FABRIC ••
				28100109	28200200
				SQ YD	SQ YD
94+77.11	TO	94+96.73	LT	12.1	12.1
95+43.96	TO	95+66.04	RT	12.1	12.1
97+11.45	TO	98+31.88		*	*
			TOTAL:	1253	1253

• SEE STRUCTURAL BILL OF MATERIALS FOR ADDITIONAL RIPRAP AND ASSOCIATED FILTER FABRIC QUANTITIES.

•• FILTER FABRIC SHALL BE PLACED PER IDOT STANDARD DETAIL 280001-07 FOR AGGREGATE DITCH CHECKS AND INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR TEMP. DITCH CHECK.

PERIMETER EROSION BARRIER SCHEDULE

STATION	OFFSET		STATION	OFFSET	PERIMETER EROSION BARRIER
					28000400
					FOOT
94+00.00	17.0' LT	TO	94+53.30	37.0' LT	57
94+61.30	37.0' LT	TO	97+60.06	47.6' LT	330
94+00.00	24.9' RT	TO	94+59.80	30.0' RT	63
94+69.80	30.0' RT	TO	97+69.95	47.3' RT	334
97+71.81	47.0' LT	TO	98+80.00	56.8' LT	126.4
97+84.46	46.6' RT	TO	100+94.66	36.1' RT	319
101+06.61	35.0' RT	TO	101+60.00	17.0' RT	64
				TOTAL:	1293

PAVEMENT REMOVAL

STATION		STATION	PAVEMENT REMOVAL
			44000100
			SQ YD
94+00.00	TO	97+19.77	781.7
98+23.83	TO	101+60.00	844.9
		TOTAL:	1627

TEMPORARY DITCH CHECK SCHEDULE

STATION	OFFSET	28000305 FOOT
95+21	48' LT	12
95+49	47' LT	12
95+77	47' LT	12
96+05	46' LT	12
96+33	46' LT	12
96+61	45' LT	12
96+89	45' LT	12
95+72	70' RT	20.5
95+91	70' RT	20.5
96+49	69' RT	20.5
97+06	67' RT	20.5
97+49	67' RT	20.5
98+80	36' LT	12
99+48	28' LT	12
99+77	28' LT	12
100+07	27' LT	12
100+37	26' LT	12
100+67	26' LT	12
100+97	25' LT	12
101+27	25' LT	12
101+57	26' LT	12
	TOTAL:	295

CONCRETE CURB AND GUTTER SCHEDULE

STATION	OFFSET		STATION	OFFSET	CONCRETE CURB TRANSITION	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
					60601805	60605000	60608582
					FOOT	FOOT	FOOT
96+47.02	17.3' LT	TO	96+52.02	17.3' LT	5		
96+47.02	17.3' RT	TO	96+52.02	17.3' RT	5		
96+52.02	17.3' LT	TO	96+93.96	17.3' LT		41.9	
96+52.02	17.3' RT	TO	97+00.07	17.3' RT		48	
98+43.31	17.3' LT	TO	98+65.87	17.3' LT		22.6	
98+49.43	17.3' RT	TO	98+71.87	17.3' RT		22.4	
98+95.87	17.3' LT	TO	99+00.19	30.3' LT			41
98+71.87	17.3' RT	TO	98+91.37	17.3' RT			20
98+91.37	17.3' RT	TO	98+96.37	17.3' RT	5		
				TOTAL:	15	135	61

TREE REMOVAL / STABILIZATION SCHEDULE

STATION		STATION	OFFSET	TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 2A	SEEDING, CLASS 3	MULCH, METHOD 3A
				21101615	25000210	25000300	25100127
				SQ YD	ACRE	ACRE	ACRE
94+00	TO	94+53	LT	60.5	0.013		0.025
94+00	TO	94+60	RT	84.2	0.017		0.035
94+61	TO	97+57	LT	1350.4		0.279	0.474
94+68	TO	97+73	RT	1904.1	0.393		0.711
97+89	TO	99+02	LT	393.5	0.087		0.164
97+83	TO	100+95	RT	458.8	0.095		0.189
99+18	TO	101+60	LT	588.5		0.122	0.243
99+18	TO	101+60	LT	360.1	0.074		0.063
101+07	TO	101+60	RT	48.4	0.010		0.02
			TOTAL:	5248	0.7	0.4	1.9

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB SCHEDULE

STATION		STATION	42000070 SQ YD
96+90.92	TO	96+97.02	20.8
98+46.37	TO	98+52.46	20.8
		TOTAL:	42

TEMPORARY EROSION CONTROL BLANKET SCHEDULE

STATION		STATION	OFFSET	28001100 SQ YD
95+06.00	TO	97+11.50	LT	182.7
95+66.00	TO	97+50.00	RT	163.6
98+70.00	TO	98+92.00	LT	19.6
99+25.00	TO	101+60.00	LT	208.9
			TOTAL:	575

INLET AND PIPE PROTECTION SCHEDULE

STATION	OFFSET	28000500 EACH
94+40.79	31.0' RT	1
94+38.00	29.5' LT	1
98+70.97	16.3' RT	1
98+70.97	16.3' LT	1
98+71.00	36.3' LT	1
99+23.74	30.4' LT	1
	TOTAL:	6

PAVED DITCH REMOVAL

STATION		STATION	O/S	44004000 FOOT
94+00.00	TO	94+46.23	LT	48.0
94+00.00	TO	94+41.70	RT	41.0
94+83.37	TO	95+18.67	LT	37.3
95+17.90	TO	95+22.50	LT	16.5
94+97.82	TO	95+22.62	RT	25.9
			TOTAL:	169

PIPE CULVERT REMOVAL SCHEDULE

STATION	OFFSET		STATION	OFFSET	50105220 FOOT
94+41.58	31.2' RT	TO	94+97.91	51.2' RT	62
93+35.66	31.0' LT	TO	93+65.85	25.5' LT	31
94+46.24	32.8' LT		94+83.78	46.5' LT	41
				TOTAL:	134

PAVED DITCH, TYPE A-15

STATION		STATION	O/S	60615400 FOOT
94+00.00	TO	94+38.00	LT	37.7
94+00.00	TO	94+41.74	RT	41.4
			TOTAL:	79

PAVEMENT MARKING SCHEDULE

STATION	OFFSET		STATION	OFFSET	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	GROOVING FOR RECESSED PAVEMENT MARKING 5"
					78009004	X7830070
					FOOT	FOOT
94+00.00	11.0' LT	TO	101+60.00	11.0' LT	760	760
94+00.00	11.0' RT	TO	101+60.00	11.0' RT	760	760
94+00.00	0.1' LT	TO	96+42.00	0.1' LT	242	242
94+00.00	0.1' RT	TO	96+42.00	0.1' RT	60.5	60.5
96+42.00	0.0' RT	TO	101+60.00	0.0' RT	129.5	129.5
				TOTAL:	1952	1952

GUARDRAIL SCHEDULE

STATION	OFFSET		STATION	OFFSET	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
					63000001	63100085	63100167
					FOOT	EACH	EACH
94+85.67	21.9' LT	TO	95+10.67	17.9' LT			1
95+10.67	17.9' LT	TO	96+71.52	17.9' LT	160.9		
96+22.02	21.9' RT	TO	96+47.02	17.9' RT			1
96+47.02	17.9' RT	TO	96+77.51	17.9' RT	30.5		
96+71.52	17.9' LT	TO	97+09.02	17.9' LT		1.0	
96+77.51	17.9' RT	TO	97+15.01	17.9' RT		1.0	
98+28.37	17.9' LT	TO	98+65.87	17.9' LT		1.0	
98+34.37	17.9' RT	TO	98+71.87	17.9' RT		1.0	
98+65.87	17.9' LT	TO	98+90.87	21.9' LT			1
98+71.87	17.9' RT	TO	98+96.87	21.9' RT			1
				TOTAL:	191	4	4

DIRECTORY : L:\PCH\165530100\Draw\CADD_Sheets\...
USER NAME : Emily Munday

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License No. 184-000613

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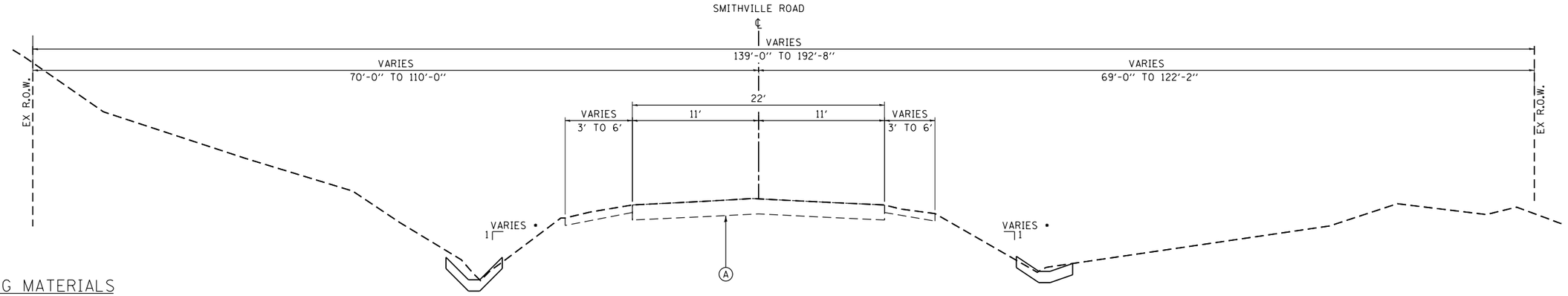
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: NA | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	4

CONTRACT NO. 89744
ILLINOIS FED. AID PROJECT



EXISTING TYPICAL SECTION

STA. 94 + 00 TO STA. 101 + 60 (ENTIRE PROJECT)

SEE TYPICAL SECTION SHEET 2 OF 3 FOR BRIDGE SECTION

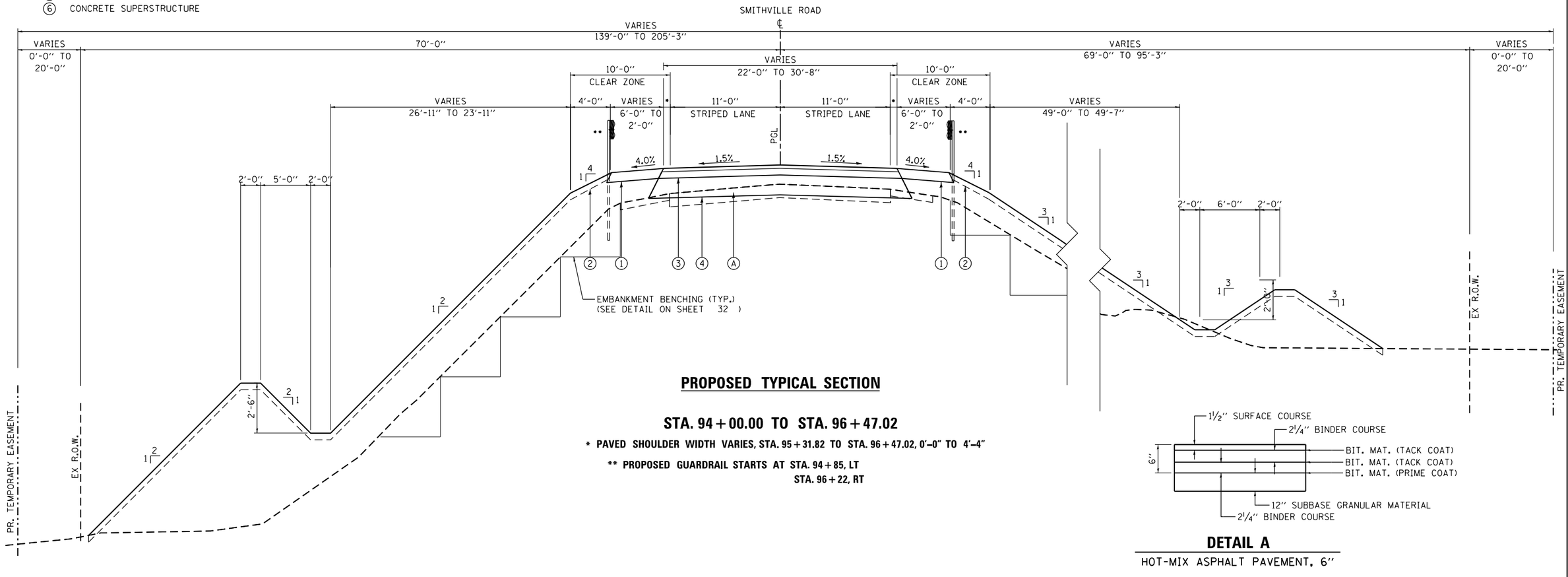
*** VARIES, 3H:1V TO 2H:1V**

EXISTING MATERIALS

- (A) EXISTING CHIP SEAL PAVEMENT ON AGGREGATE BASE
- (B) EXISTING REINFORCED CONCRETE DECK WITH CHIP SEAL SURFACING

PROPOSED MATERIALS

- (1) AGGREGATE SHOULDERS, TYPE A, 6″
- (2) TOPSOIL, FURNISH AND PLACE, 4″ & SEEDING, CLASS 2A OR 3
- (3) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6″ (SEE DETAIL A)
- (4) SUBBASE GRANULAR MATERIAL, TYPE A, 12″
- (5) COMB. CONCRETE CURB & GUTTER, TY B-6.24
- (6) CONCRETE SUPERSTRUCTURE



PROPOSED TYPICAL SECTION

STA. 94 + 00.00 TO STA. 96 + 47.02

*** PAVED SHOULDER WIDTH VARIES, STA. 95 + 31.82 TO STA. 96 + 47.02, 0′–0″ TO 4′–4″**

**** PROPOSED GUARDRAIL STARTS AT STA. 94 + 85, LT**
STA. 96 + 22, RT

DETAIL A

HOT-MIX ASPHALT PAVEMENT, 6″

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USER NAME = Emily Munday

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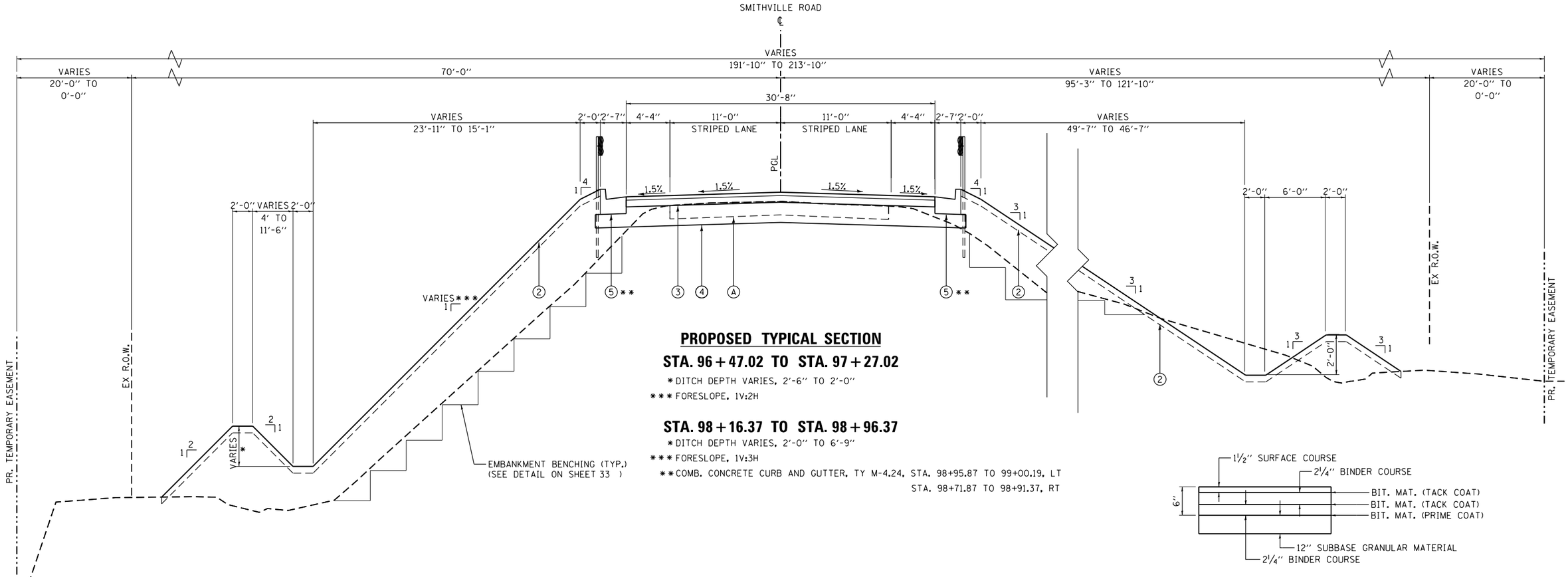
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1″ = 5′ | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	5
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 96 + 47.02 TO STA. 97 + 27.02

* DITCH DEPTH VARIES, 2'-6'' TO 2'-0''

*** FORESLOPE, 1V:2H

STA. 98 + 16.37 TO STA. 98 + 96.37

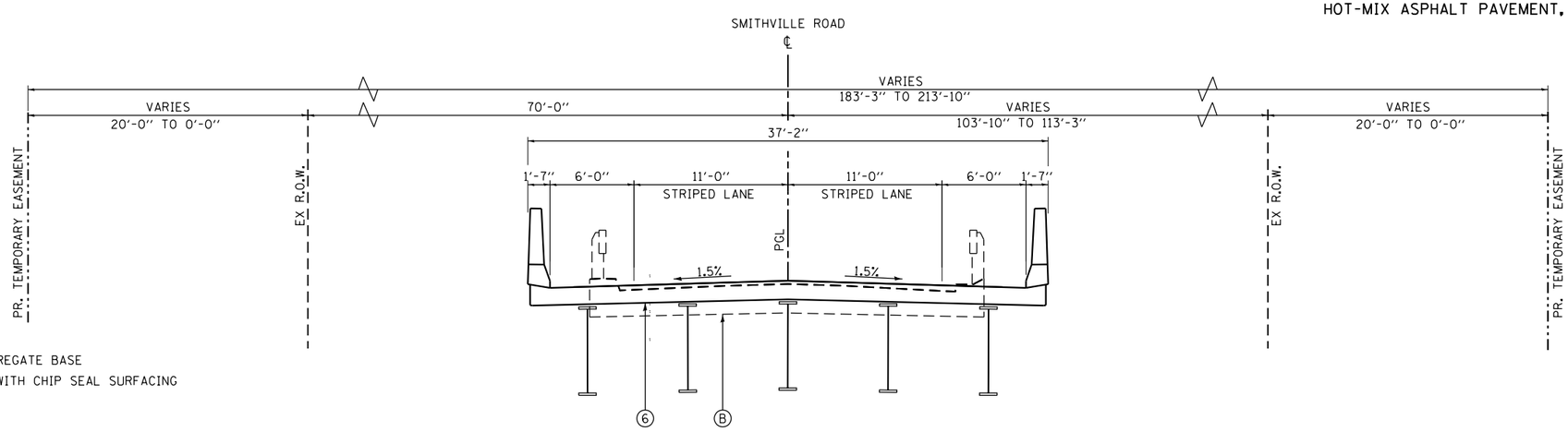
* DITCH DEPTH VARIES, 2'-0'' TO 6'-9''

*** FORESLOPE, 1V:3H

** COMB. CONCRETE CURB AND GUTTER, TY M-4.24, STA. 98+95.87 TO 99+00.19, LT
STA. 98+71.87 TO 98+91.37, RT

DETAIL A

HOT-MIX ASPHALT PAVEMENT, 6''



EXISTING MATERIALS

(A) EXISTING CHIP SEAL PAVEMENT ON AGGREGATE BASE

(B) EXISTING REINFORCED CONCRETE DECK WITH CHIP SEAL SURFACING

PROPOSED MATERIALS

(1) AGGREGATE SHOULDERS, TYPE A, 6''

(2) TOPSOIL, FURNISH AND PLACE, 4'' & SEEDING, CLASS 2A OR 3

(3) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6'' (SEE DETAIL A)

(4) SUBBASE GRANULAR MATERIAL, TYPE A, 12''

(5) COMB. CONCRETE CURB & GUTTER, TY B-6.24

(6) CONCRETE SUPERSTRUCTURE

PROPOSED TYPICAL SECTION

STA. 97 + 27.02 TO STA. 98 + 16.37

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1'' = 5' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

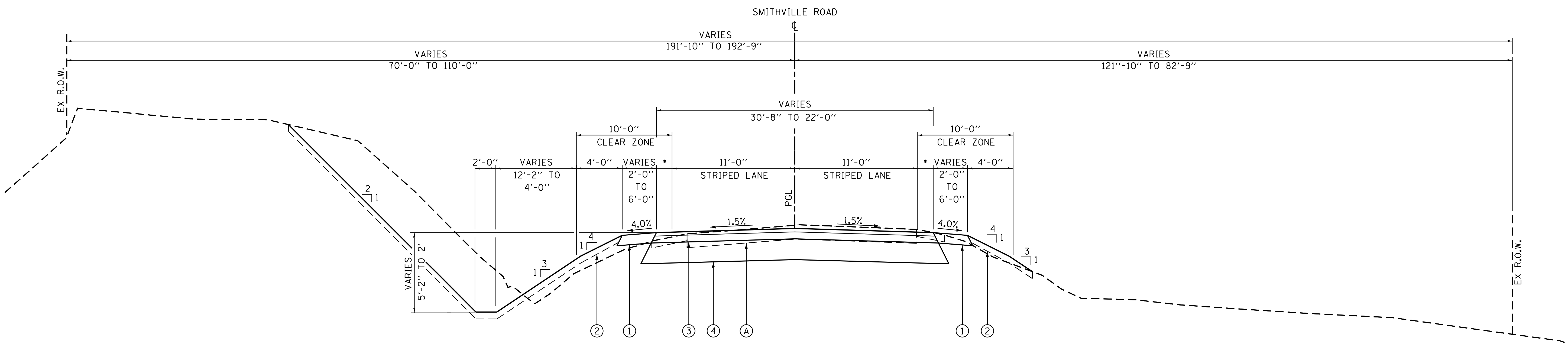
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	6
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

EXISTING MATERIALS

(A) EXISTING CHIP SEAL PAVEMENT ON AGGREGATE BASE
(B) EXISTING REINFORCED CONCRETE DECK WITH CHIP SEAL SURFACING

PROPOSED MATERIALS

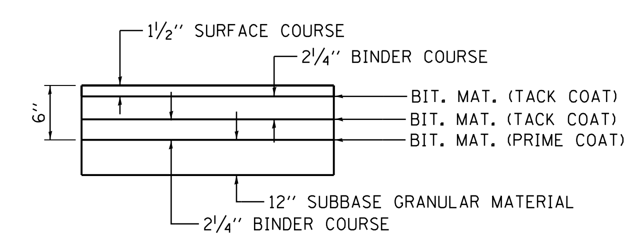
(1) AGGREGATE SHOULDERS, TYPE A, 6"
(2) TOPSOIL, FURNISH AND PLACE, 4" & SEEDING, CLASS 2A OR 3
(3) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6" (SEE DETAIL A)
(4) SUBBASE GRANULAR MATERIAL, TYPE A, 12"
(5) COMB. CONCRETE CURB & GUTTER, TY B-6.24
(6) CONCRETE SUPERSTRUCTURE



PROPOSED TYPICAL SECTION

STA. 98+96.37 TO STA. 101+60.00

* PAVED SHOULDER WIDTH VARIES, STA. 98+96.37 TO STA. 100+11.57, 4'–4" TO 0'–0"



DETAIL A

HOT-MIX ASPHALT PAVEMENT, 6"

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USER NAME : Emily Munday

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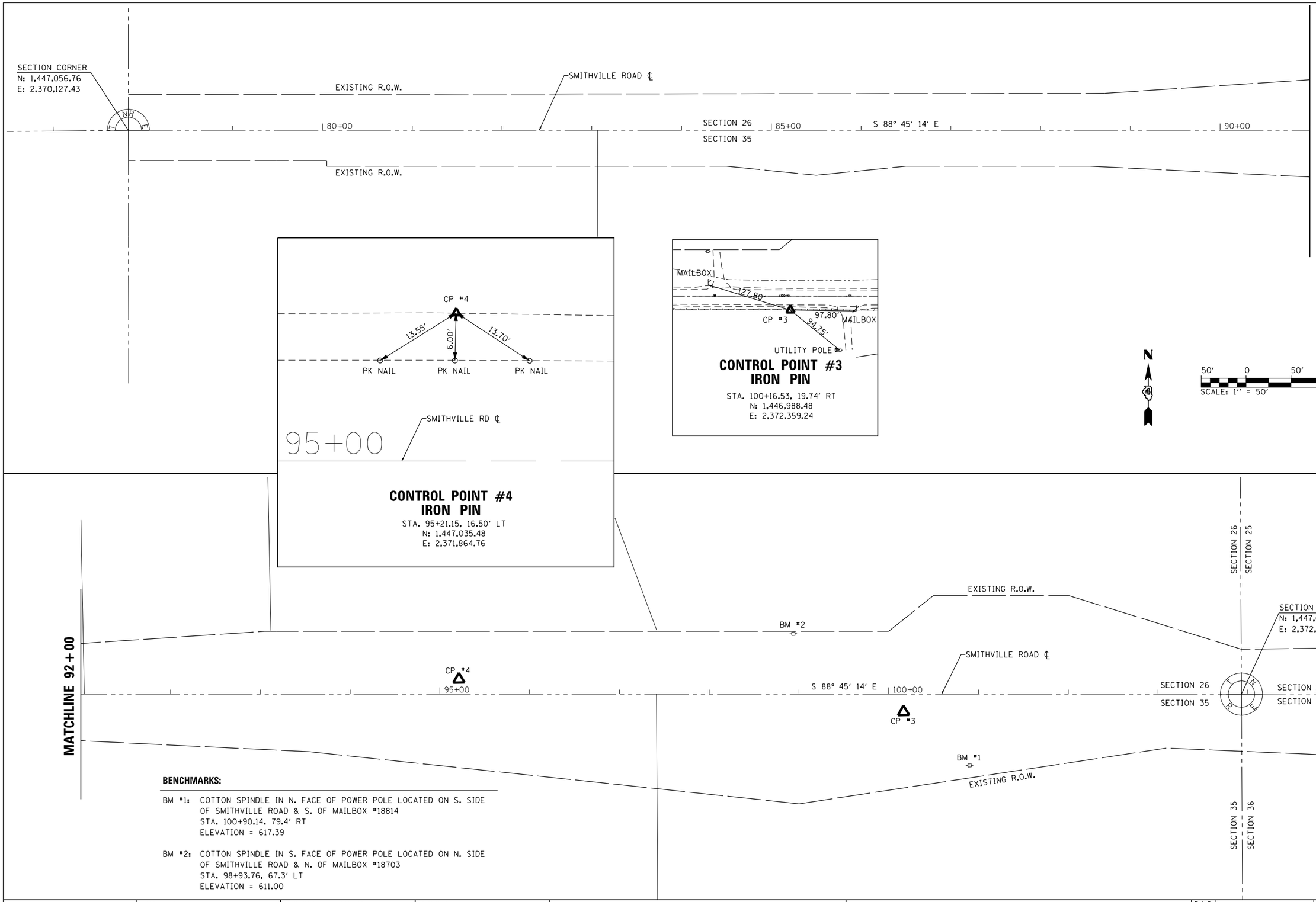
TYPICAL SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 5' | SHEET 3 OF 3 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	7
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		



BENCHMARKS:

BM #1: COTTON SPINDLE IN N. FACE OF POWER POLE LOCATED ON S. SIDE OF SMITHVILLE ROAD & S. OF MAILBOX #18814
STA. 100+90.14, 79.4' RT
ELEVATION = 617.39

BM #2: COTTON SPINDLE IN S. FACE OF POWER POLE LOCATED ON N. SIDE OF SMITHVILLE ROAD & N. OF MAILBOX #18703
STA. 98+93.76, 67.3' LT
ELEVATION = 611.00

DIRECTORY = E:
USER NAME = Emily Munday

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License No. 184-000613

MODEL NAME =	DESIGNED - LM/EM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
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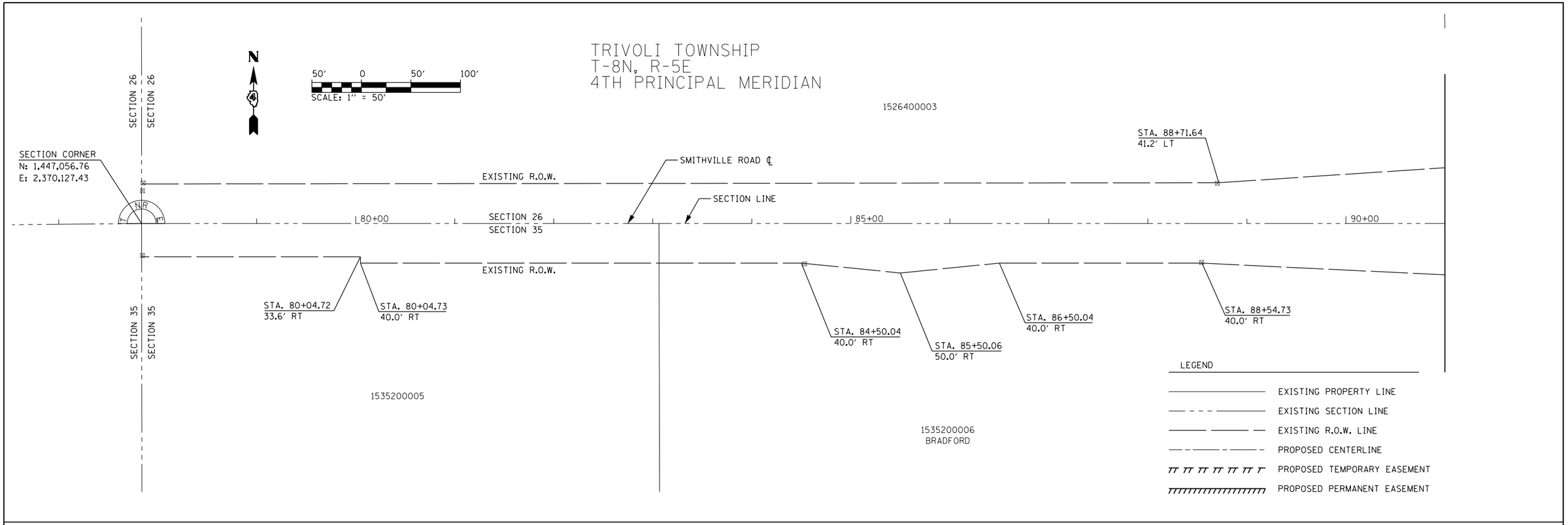
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

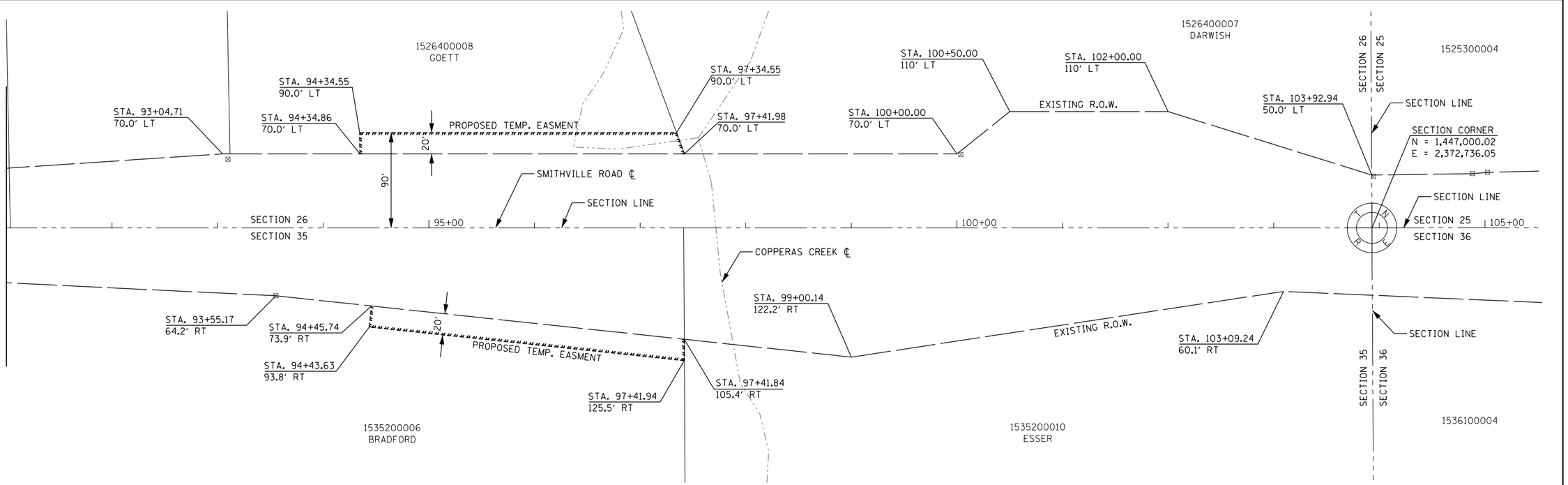
ALIGNMENT, TIES, AND BENCHMARKS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	8
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

TRIVOLI TOWNSHIP
T-8N, R-5E
4TH PRINCIPAL MERIDIAN





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License No. 184-000613 © Copyright CMT, Inc.	FILE NAME =	DRAWN - EMM	REVISED -	
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RIGHT OF WAY PLAN
SMITHVILLE ROAD STRUCTURE REPLACEMENT

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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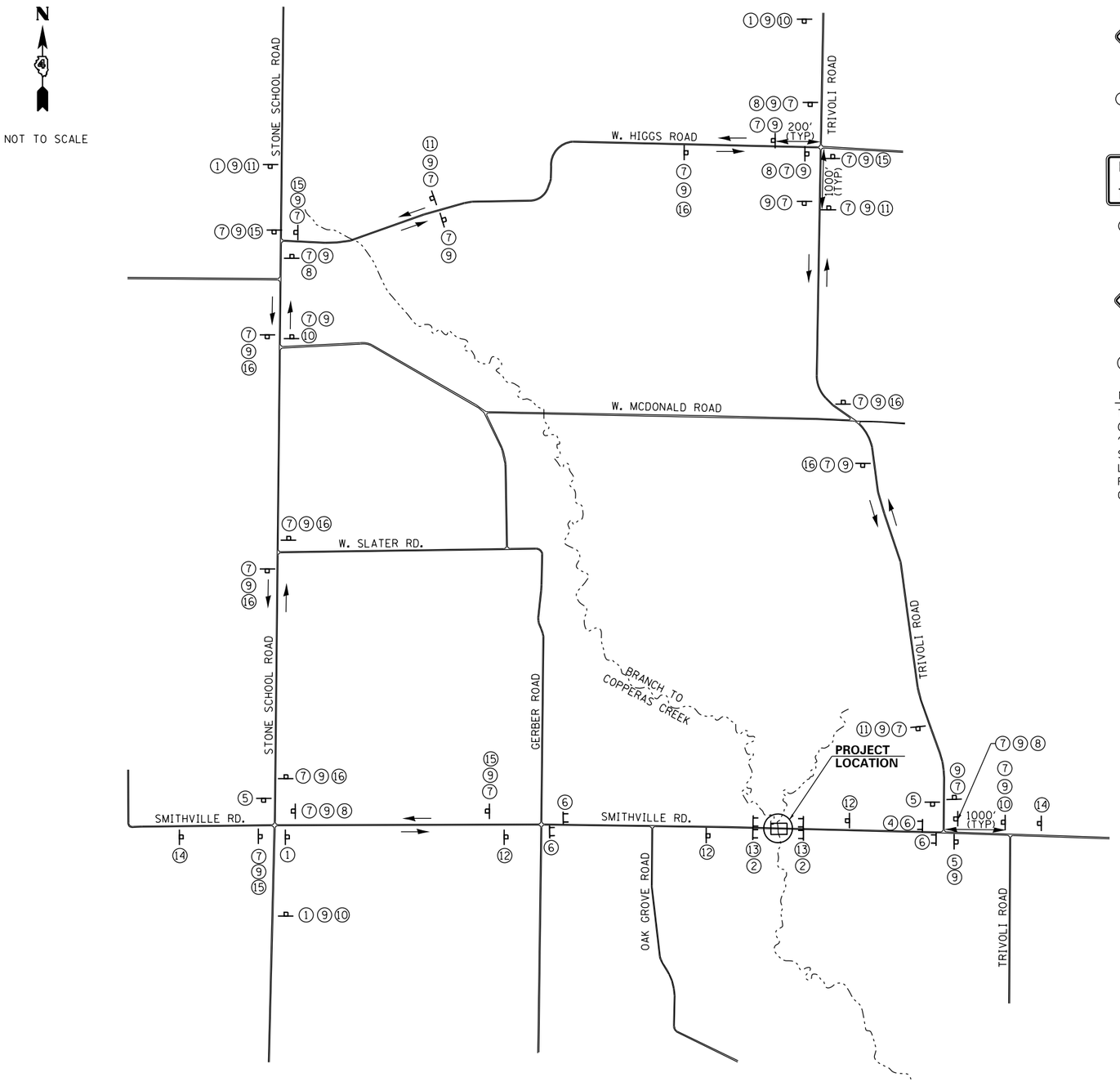
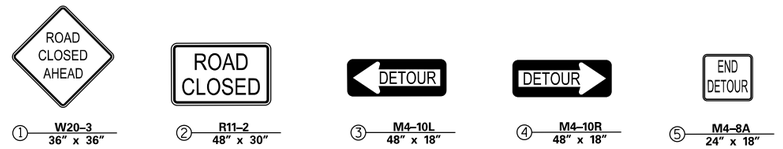
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

DIRECTORY = Emily Murday
USER NAME =



LEGEND



NOTE:

TYPE III BARRICADES SHALL BE PLACED ACROSS THE ROAD AT EACH END OF THE BRIDGE CONSTRUCTION LIMITS TO PREVENT VEHICLES FROM ENTERING THE WORK ZONE. THE "BRIDGE OUT" SIGN SHALL BE MOUNTED ON THE TYPE III BARRICADES. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO PROPERTIES NEAR TO, AND WITHIN, THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL ALSO RELOCATE THE EXISTING MAILBOXES NOTED ON THE PLAN SHEETS TO ALLOW FOR MAIL DELIVERY DURING CONSTRUCTION AND UPON COMPLETION OF THE IMPROVEMENTS.

TEMPORARY SIGN ASSEMBLY

TYPE III BARRICADE

DIRECTORY = L:\PCHD\160531000\Draw\CADD_Sheets\...
USER NAME = Emily Munday

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License No. 184-000613

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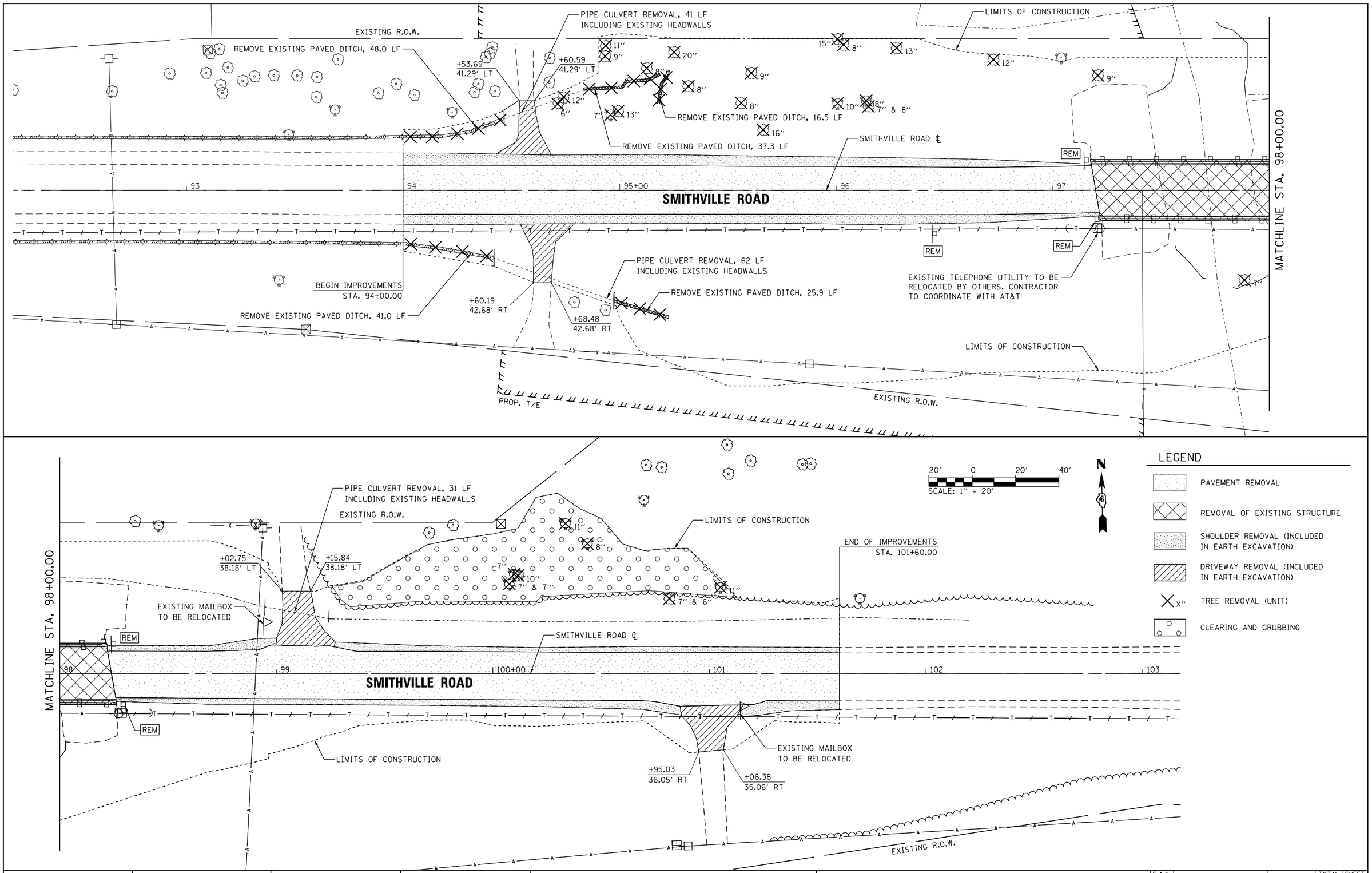
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	10
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		



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USER NAME =

CMT
License No. 184-000613

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 94+00 TO STA. 101+60

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	11
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

S01 PROP. 4' DIA. MANHOLE, TY A
W/ SPECIAL FRAME AND GRATE
TYPE 37 GRATE (IDOT 604301-D4)
STA. 94+41.74, 31.2' RT
RIM ELEV. = 626.00
INVERT ELEV. = 616.00

S02 PROP. PRC FLAR END SECTION, 18"
STA. 95+50.00, 70.0' RT
ELEV. @ TOE = 605.82

S03 PROP. PRC FLAR END SECTION 12"
STA. 98+05.20, 36.3' LT
ELEV. @ TOE = 605.00

S09 PROP. 4' DIA. MANHOLE, TY A
W/ SPECIAL FRAME AND GRATE
TYPE 37 GRATE (IDOT 604301-D4)
STA. 94+38.00, 29.5' LT
RIM ELEV. = 625.70
INVERT ELEV. = 617.25

S10 PROP. PRC FLAR END SECTION 18"
STA. 94+90.13, 50.1' LT
ELEV. @ TOE = 612.39

P01 PROP. STORM SEWER, CL A, TY 2, 12" -
58 LF @ 1.6%

P04 PROP. STORM SEWER, CL A, TY 2, 18"
107 LF @ 9.0%

P06 PROP. STORM SEWER, CL A, TY 2, 18" -
48 LF @ 9.0%

▨ PROPOSED SEEDLING PLANTING AREA. CONTRACTOR TO COORDINATE ACTUAL FIELD PLANTING LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
R.T. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

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USER NAME = Emily Munday

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PLOT DATE = 8/22/2019 (3:48:28 PM)	DATE - JUNE 2019	REVISED -	

PEORIA COUNTY HIGHWAY DEPARTMENT
PEORIA COUNTY, ILLINOIS

PLAN AND PROFILE
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. 94+00 TO STA. 98+60

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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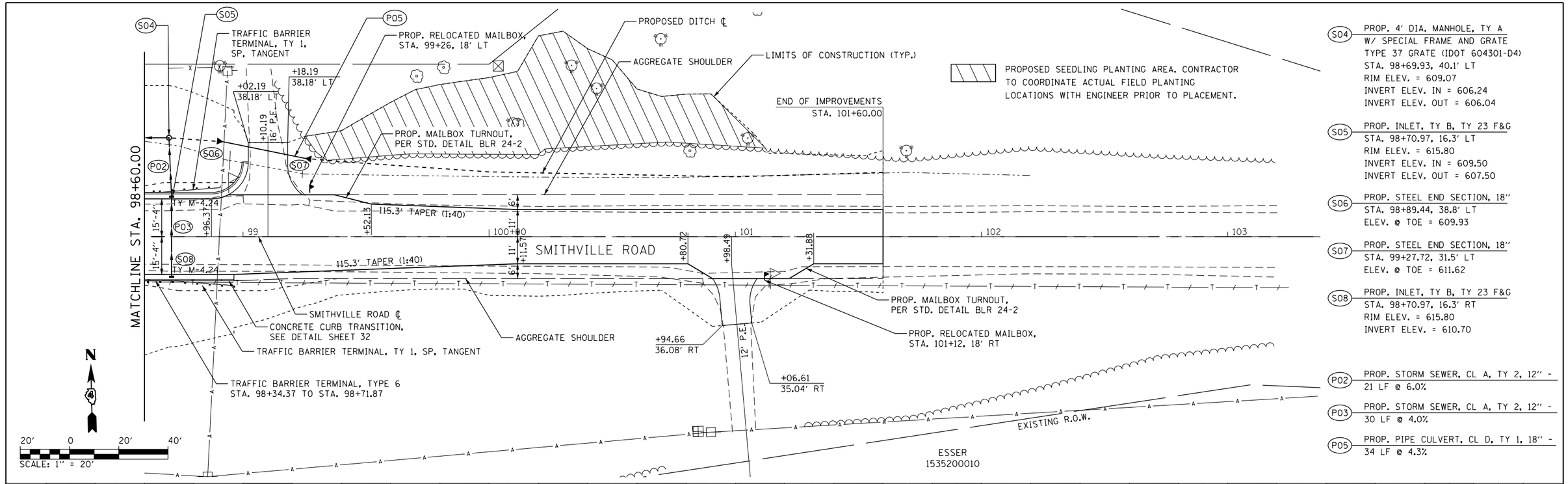
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		



PLAN: SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE: SURVEYED; PLOTTED; PROFILE CHECKED; BM. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

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USER NAME = Emily Munday

CMT
License No. 184-000613

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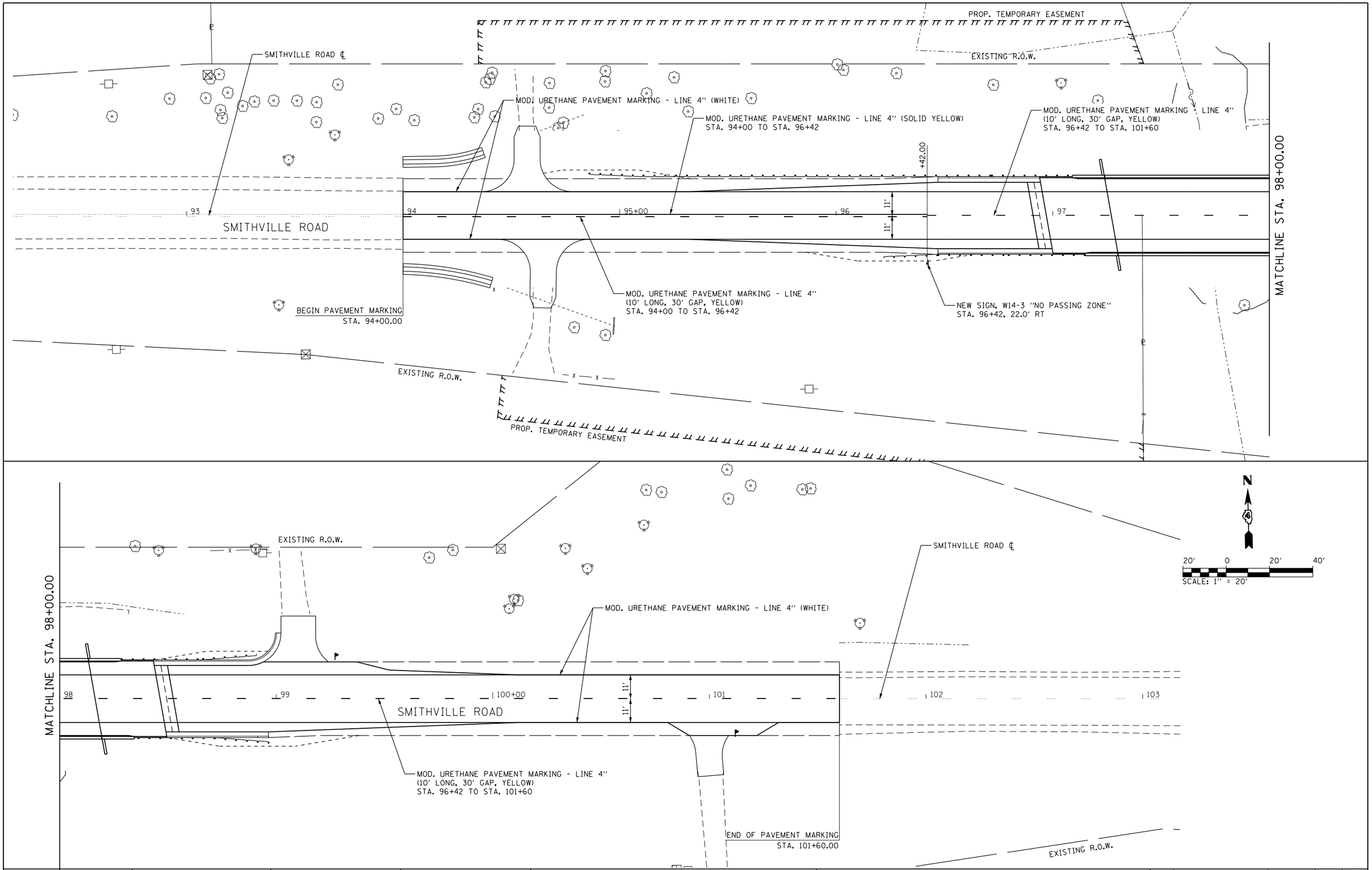
PLOT DATE = 8/22/2019 (3:48:29 PM)	DATE - JUNE 2019	REVISED -

PEORIA COUNTY HIGHWAY DEPARTMENT
PEORIA COUNTY, ILLINOIS

PLAN AND PROFILE
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 20' | SHEET 2 OF 2 SHEETS | STA. 98+60 TO STA. 101+60

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	13
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



DIRECTORY = = Emily Munday
USER NAME

CMT
License No. 184-000613

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PLOT DATE = 8/22/2019 (3:48:32 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
SMITHVILLE ROAD STRUCTURE REPLACEMENT

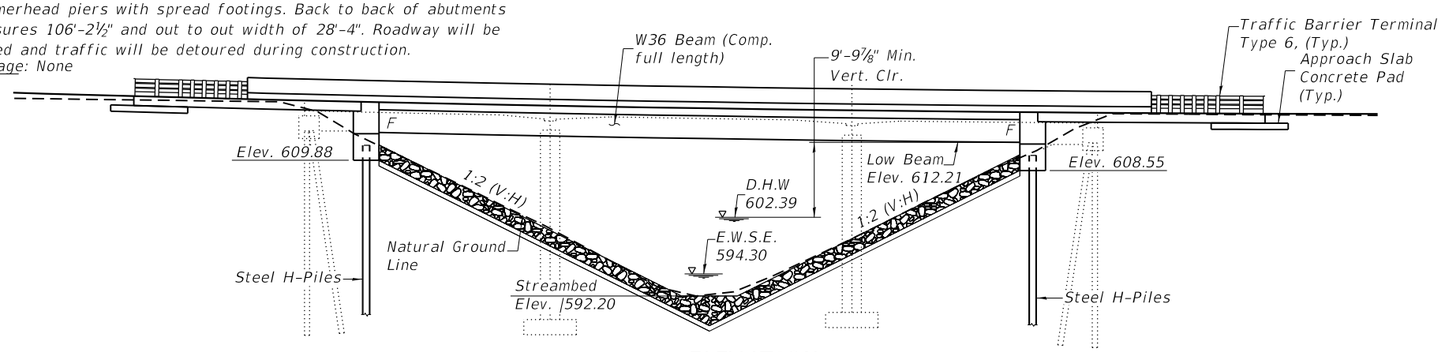
SCALE: 1'' = 20' | SHEET 1 OF 1 SHEETS | STA. 94+00 TO STA. 101+60

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	14
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

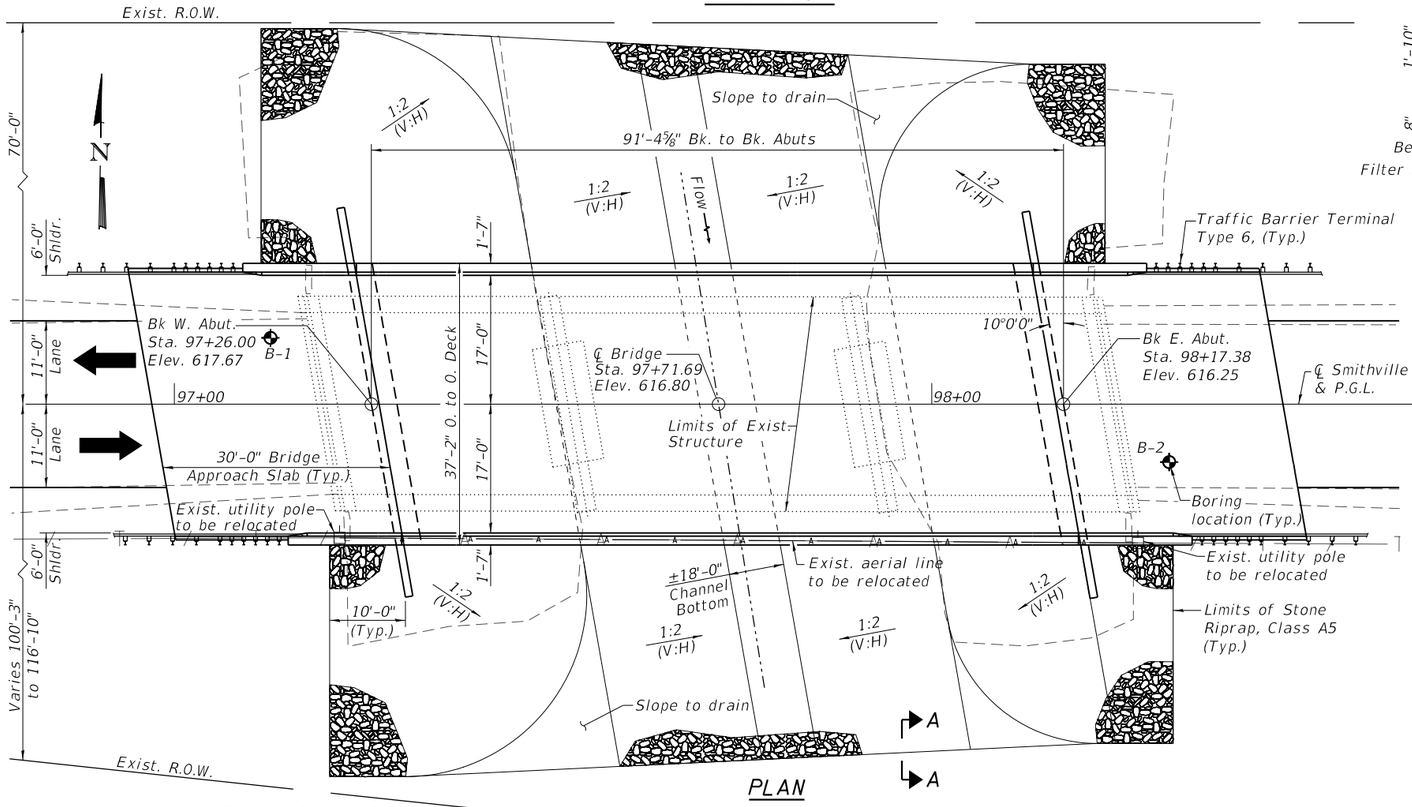
Bench Mark: Cotton Spindle in south face of utility pole on north side of Smithville Road, approximately 70' east of the bridge Elev. 611.00

Existing Structure: S.N. 072-3046 is a three span, variable depth, reinforced concrete deck bridge constructed in 1962. Substructure consists of concrete stub abutments supported on steel H-piles and hammerhead piers with spread footings. Back to back of abutments measures 106'-2½" and out to out width of 28'-4". Roadway will be closed and traffic will be detoured during construction.

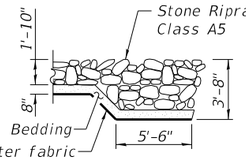
Salvage: None



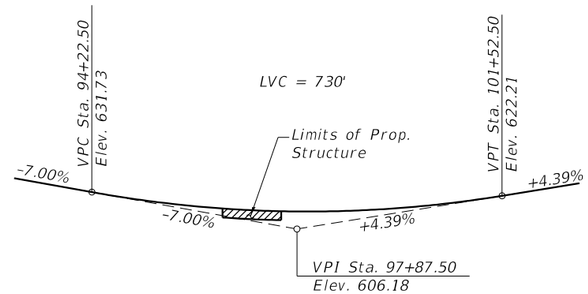
ELEVATION



PLAN



SECTION A-A



PROFILE GRADE

(along ℄ roadway)

INDEX OF SHEETS

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.112g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.175g
Soil Site Class = D

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims

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 Standard Specifications for Highway Bridges.

See cover page for licensed Structural Engineer's seal and signature.

WATERWAY INFORMATION

Drainage Area = 6.4 Sq. Mi. Low Grade Elev. = 616.03 @ Sta. 98+71.02

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1,690	241	248	601.58	1.3	0.92	602.88	602.50
Design	30	2,280	275	286	602.39	1.73	1.14	604.12	603.53
Base	100	3,240	314	329	603.26	2.64	2.08	605.90	605.34
Max. Calc.	500	4,450	353	372	604.06	3.89	3.23	607.95	607.29

10 Yr. Velocity through Prop. Struct. = 7.40 fps

DESIGN SCOUR ELEVATION TABLE

Event/ Limit State	Design Scour Elevations (ft.) W. Abut.	E. Abut.	Item
Q100	609.86	608.53	8
Q200	609.86	608.53	
Design	609.86	608.53	
Check	609.86	608.53	

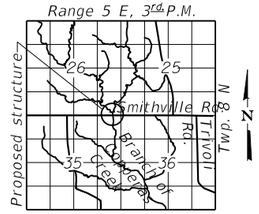
LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (M270 Grade 50W)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
SMITHVILLE ROAD (CH D52)
OVER BRANCH OF COPPERAS CREEK
SECTION 14-00005-05-BR
PEORIA COUNTY
STATION 97+71.69
STRUCTURE NO. 072-3155

USER NAME =	DESIGNED - LM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - DAC	REVISED -	
PLOT SCALE =	DRAWN - GLD	REVISED -	
PLOT DATE =	CHECKED - LM	REVISED -	

CMT License No. 184-000613

GENERAL PLAN AND ELEVATION
STRUCTURE NO 072-3155
SHEET NO. 1 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	15
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

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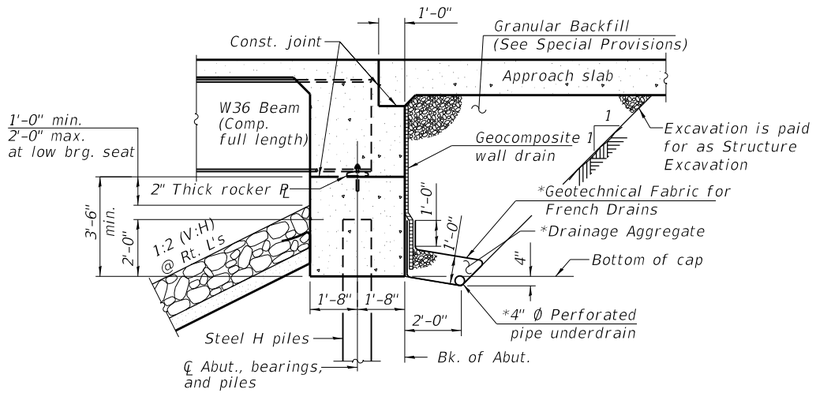
GENERAL NOTES:

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts ¾ in. Ø, holes $^{15}/_{16}$ in. Ø, unless otherwise noted.
2. Calculated weight of Structural Steel = 122,430 lbs. (AASHTO M270 Grade 50W)
3. All structural steel shall be AASHTO M 270 Grade 50W.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
10. Should the contractor deem that dewatering is necessary or that a temporary cofferdam or temporary excavation support system is necessary to complete removal of existing substructure elements the contractor shall include such costs with "Removal of Existing Structures". No additional compensation will be considered or made.



SECTION THRU INTEGRAL ABUTMENT

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

*Included in the cost for Pipe Underdrains for structures. (See Special Provisions)

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

STATION 97+71.69
BUILT 201_ BY
PEORIA COUNTY HIGHWAY DEPT.
SMITHVILLE RD. (CH D52)
SEC. 14-00005-05-BR
LOADING HL-93
STR. NO. 072-3155

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1,229	1,229
Filter Fabric	Sq. Yd.		1,229	1,229
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.	35	38	73
Concrete Structures	Cu. Yd.	22.5	39.4	61.9
Concrete Superstructure	Cu. Yd.	138.5		138.5
Bridge Deck Grooving	Sq. Yd.	531		531
Protective Coat	Sq. Yd.	686		686
Concrete Superstructure (Approach Slab)	Cu. Yd.	101.4		101.4
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	1,335		1,335
Reinforcement Bars, Epoxy Coated	Pound	72,120	6,800	78,920
Furnishing Steel Piles, HP 14x73	Foot		340	340
Driving Piles	Foot		340	340
Test Pile Steel, HP 14x73	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		20	20
Granular Backfill for Structures	Cu. Yd.		134	134
Geocomposite Wall Drain	Sq. Yd.		77	77
Pipe Underdrains for Structures 4"	Foot		114	114

PEORIA COUNTY HIGHWAY DEPARTMENT BENCH MARK

The bronze tablet, to be installed as the bench mark, shall be furnished by the Peoria County Highway Department and installed by the contractor.
The bench mark shall be installed on the level area at the North wing wall of the proposed east abutment as shown on Sheet 13 of 15.
The bench mark shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner.
The installation of the bench mark shall be included in the cost for Concrete Structures.
The elevation shall be permanetly marked by the use of metal dies after the bench mark has been installed. The elevation will be based on U.S.G.S. datum. The elevation shall be established by a registered professional land surveyor and shall be included in the cost of Concrete Structures.

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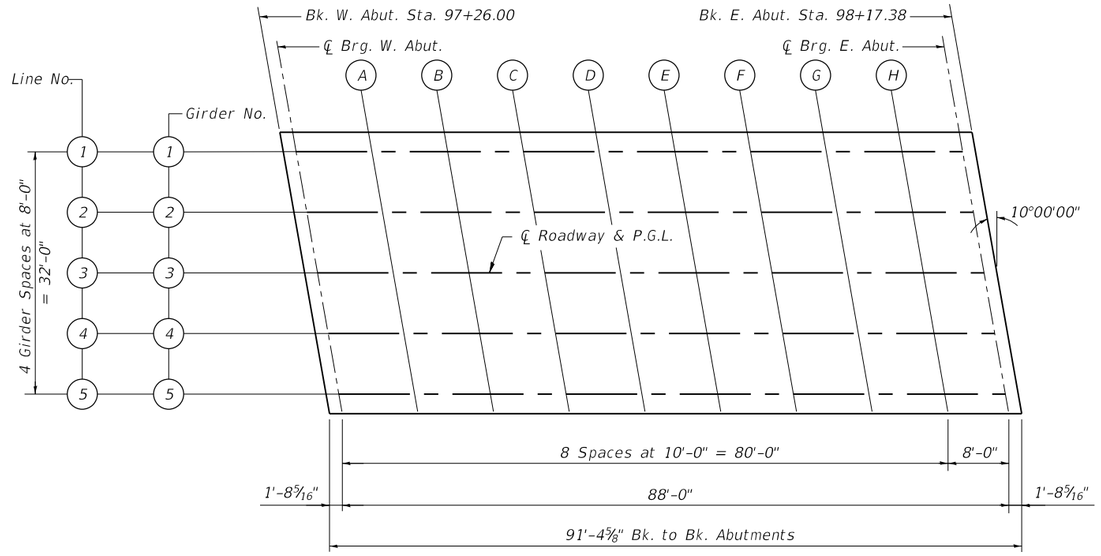
PLOT DATE =	CHECKED - LM	REVISED -	

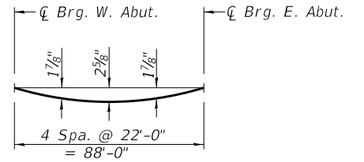
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO 072-3155
SHEET NO. 2 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	16
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



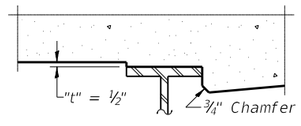
LAYOUT PLAN FOR DECK ELEVATIONS



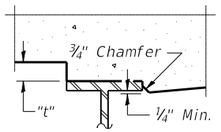
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet.



At Minimum Fillet



At Maximum Fillet

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

FILLET HEIGHTS

GIRDER 1 (LINE NO. 1)

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. W. Abut.	97+23.18	-16.00	617.50	617.50
℄ Brg. W. Abut.	97+24.87	-16.00	617.46	617.46
A	97+34.87	-16.00	617.24	617.32
B	97+44.87	-16.00	617.03	617.17
C	97+54.87	-16.00	616.84	617.02
D	97+64.87	-16.00	616.67	616.87
E	97+74.87	-16.00	616.51	616.71
F	97+84.87	-16.00	616.37	616.53
G	97+94.87	-16.00	616.24	616.36
H	98+04.87	-16.00	616.13	616.18
℄ Brg. E. Abut.	98+12.87	-16.00	616.05	616.05
Bk. E. Abut.	98+14.56	-16.00	616.04	616.04

GIRDER 2 (LINE NO. 2)

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. W. Abut.	97+24.59	-8.00	617.58	617.58
℄ Brg. W. Abut.	97+26.28	-8.00	617.54	617.54
A	97+36.28	-8.00	617.33	617.41
B	97+46.28	-8.00	617.12	617.27
C	97+56.28	-8.00	616.94	617.13
D	97+66.28	-8.00	616.77	616.97
E	97+76.28	-8.00	616.61	616.81
F	97+86.28	-8.00	616.47	616.64
G	97+96.28	-8.00	616.34	616.46
H	98+06.28	-8.00	616.24	616.28
℄ Brg. E. Abut.	98+14.28	-8.00	616.16	616.16
Bk. E. Abut.	98+15.97	-8.00	616.15	616.15

GIRDER 3 AND P.G.L. (LINE NO. 3)

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. W. Abut.	97+26.00	0.00	617.67	617.67
℄ Brg. W. Abut.	97+27.69	0.00	617.63	617.63
A	97+37.69	0.00	617.42	617.50
B	97+47.69	0.00	617.22	617.37
C	97+57.69	0.00	617.03	617.22
D	97+67.69	0.00	616.86	617.08
E	97+77.69	0.00	616.71	616.92
F	97+87.69	0.00	616.57	616.75
G	97+97.69	0.00	616.45	616.57
H	98+07.69	0.00	616.34	616.39
℄ Brg. E. Abut.	98+15.69	0.00	616.27	616.27
Bk. E. Abut.	98+17.38	0.00	616.25	616.25

GIRDER 4 (LINE NO. 4)

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. W. Abut.	97+27.41	8.00	617.52	617.52
℄ Brg. W. Abut.	97+29.10	8.00	617.48	617.48
A	97+39.10	8.00	617.27	617.36
B	97+49.10	8.00	617.07	617.22
C	97+59.10	8.00	616.89	617.08
D	97+69.10	8.00	616.72	616.93
E	97+79.10	8.00	616.57	616.78
F	97+89.10	8.00	616.43	616.61
G	97+99.10	8.00	616.31	616.43
H	98+09.10	8.00	616.21	616.26
℄ Brg. E. Abut.	98+17.10	8.00	616.14	616.14
Bk. E. Abut.	98+18.80	8.00	616.12	616.12

GIRDER 5 (LINE NO. 5)

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. W. Abut.	97+28.82	16.00	617.37	617.37
℄ Brg. W. Abut.	97+30.51	16.00	617.33	617.33
A	97+40.51	16.00	617.12	617.20
B	97+50.51	16.00	616.92	617.07
C	97+60.51	16.00	616.74	616.93
D	97+70.51	16.00	616.58	616.79
E	97+80.51	16.00	616.43	616.63
F	97+90.51	16.00	616.29	616.47
G	98+00.51	16.00	616.18	616.30
H	98+10.51	16.00	616.07	616.12
℄ Brg. E. Abut.	98+18.51	16.00	616.00	616.00
Bk. E. Abut.	98+20.21	16.00	615.99	615.99

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FILE NAME = 03 Deck Elevation.dgn	CHECKED - DAC	REVISED -	
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PLOT DATE =	CHECKED - LM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS
STRUCTURE NO. 072-3155
SHEET NO. 3 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	17
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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NORTH CURB LINE

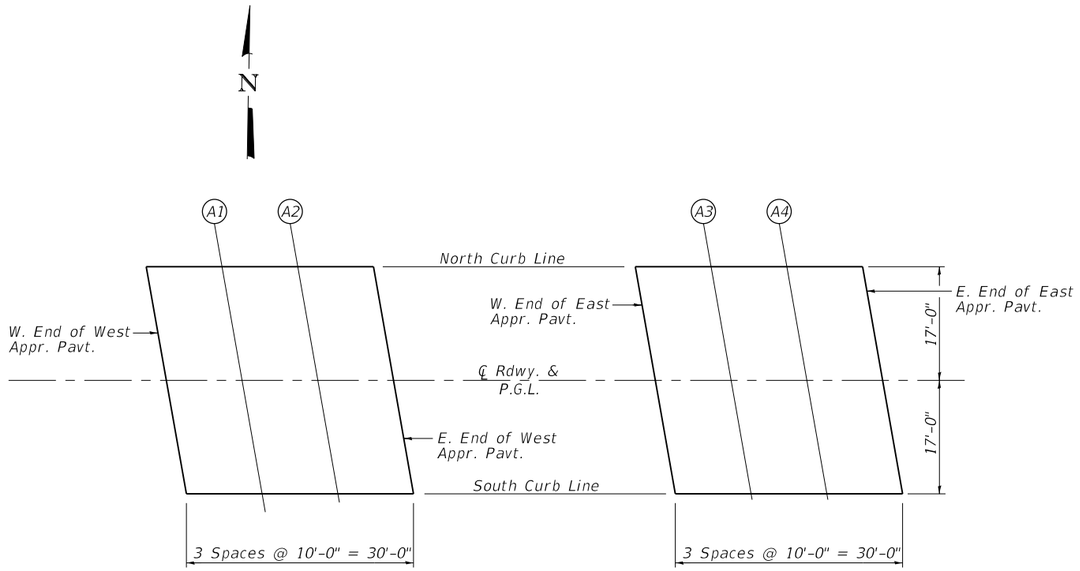
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of W. Appr.	96+94.02	-17.00	618.22
A1	97+04.02	-17.00	617.95
A2	97+14.02	-17.00	617.70
E. End of W. Appr.	97+24.02	-17.00	617.46

℄ ROADWAY & P.G.L.

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of W. Appr.	96+97.02	0.00	618.39
A1	97+07.02	0.00	618.13
A2	97+17.02	0.00	617.88
E. End of W. Appr.	97+27.02	0.00	617.65

SOUTH CURB LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of W. Appr.	97+00.01	17.00	618.06
A1	97+10.01	17.00	617.80
A2	97+20.01	17.00	617.55
E. End of W. Appr.	97+30.01	17.00	617.33



WEST APPROACH

EAST APPROACH

PLAN

NORTH CURB LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of E. Appr.	98+13.37	-17.00	616.03
A3	98+23.37	-17.00	615.95
A4	98+33.37	-17.00	615.88
E. End of E. Appr.	98+43.37	-17.00	615.83

℄ ROADWAY & P.G.L.

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of E. Appr.	98+16.37	0.00	616.26
A3	98+26.37	0.00	616.18
A4	98+36.37	0.00	616.12
E. End of E. Appr.	98+46.37	0.00	616.08

SOUTH CURB LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATION
W. End of E. Appr.	98+19.37	17.00	615.98
A3	98+29.37	17.00	615.91
A4	98+39.37	17.00	615.85
E. End of E. Appr.	98+49.37	17.00	615.81

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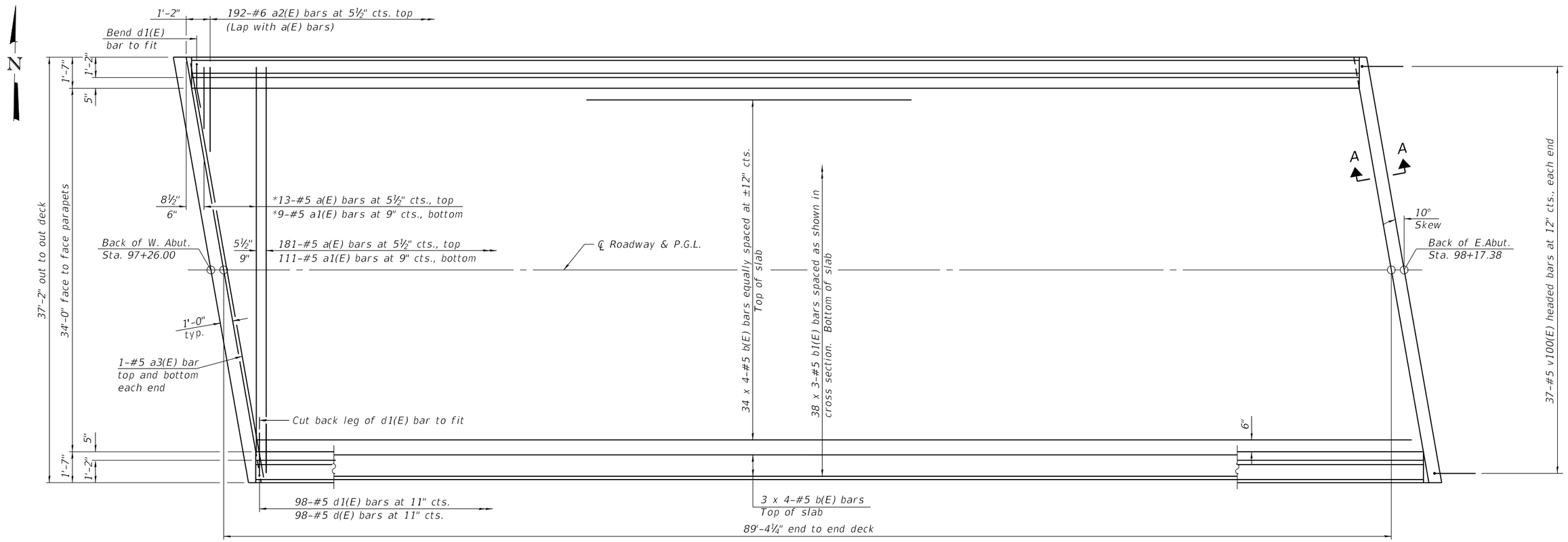
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 072-3155
SHEET NO. 4 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	18
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



PLAN

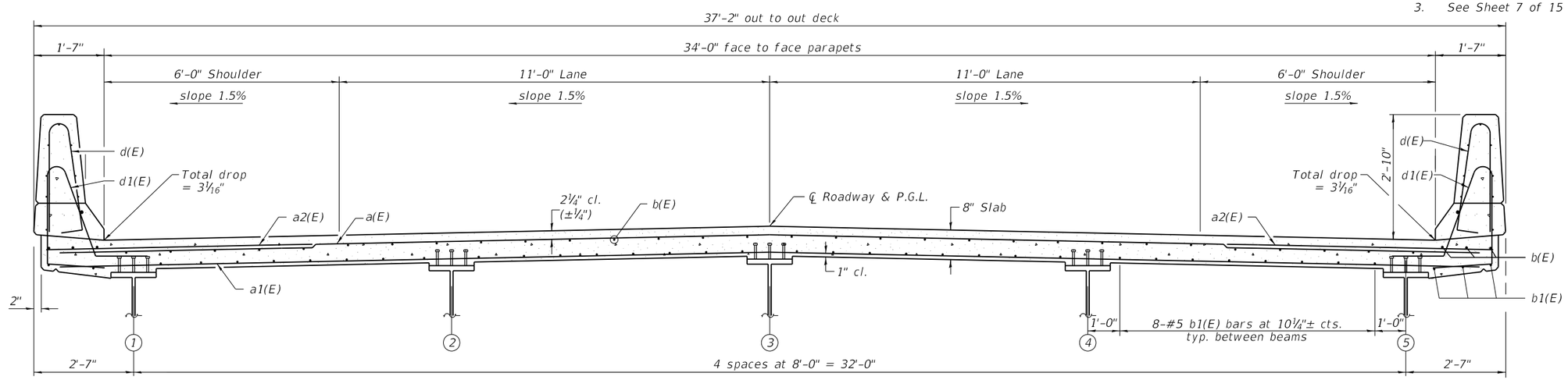
MIN. BAR LAP

#5 bar = 3'-6"

* Order a(E) & a1(E) bars full length
Cut to fit skew and use remainder
of bars in opposite end.

NOTES:

1. See Sheet 6 of 15 for superstructure details, and Bill of Material.
2. Bars indicated thus 34 x 4-#5 etc. indicates 30 lines of bars with 4 lengths per line.
3. See Sheet 7 of 15 for Section A-A.



CROSS SECTION

(Looking East)

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SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 072-3155
SHEET NO. 5 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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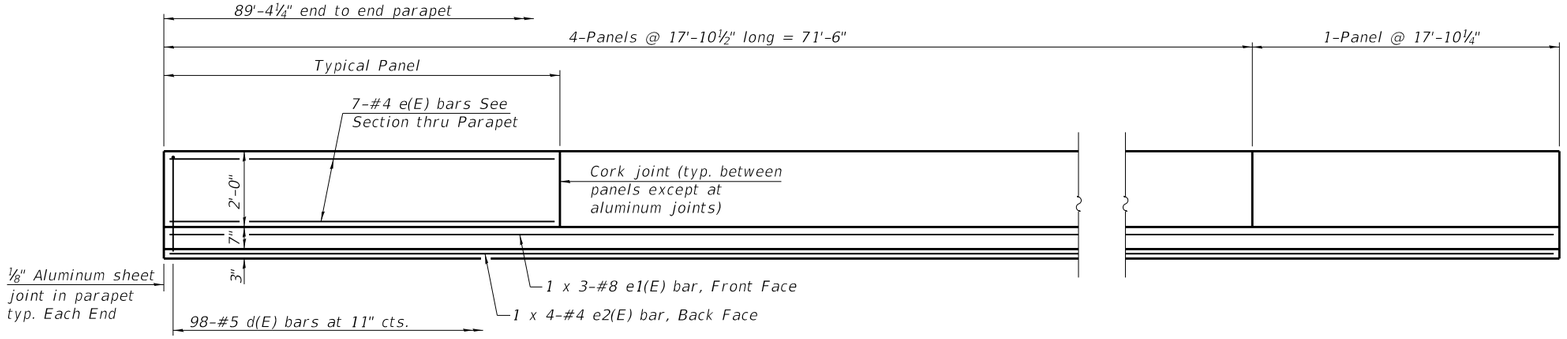
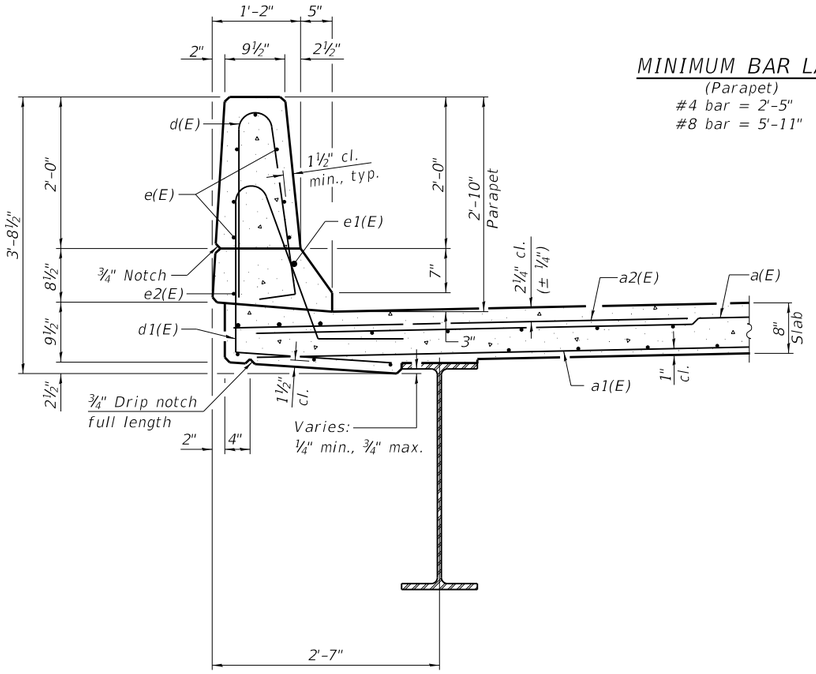
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



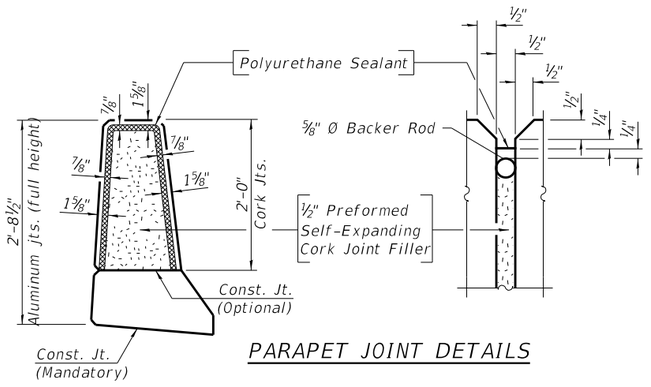
INSIDE ELEVATION OF PARAPET



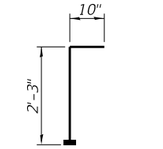
SECTION THRU PARAPET

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-5"
#8 bar = 5'-11"

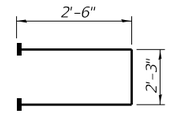


PARAPET JOINT DETAILS



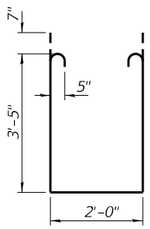
BAR v100(E)

(Headed)

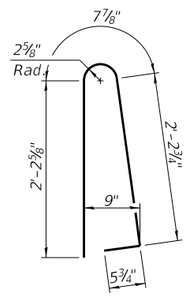


BAR s10(E)

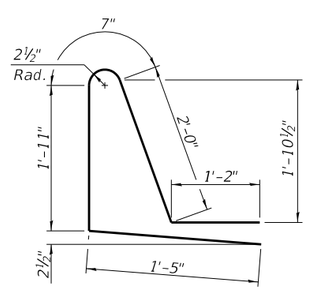
(Headed)



BAR s11(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	194	#5	36'-6"	
a1(E)	120	#5	36'-6"	
a2(E)	384	#6	6'-6"	
a3(E)	4	#5	37'-0"	
b(E)	160	#5	24'-11"	
b1(E)	114	#5	32'-0"	
d(E)	196	#5	5'-7"	
d1(E)	196	#5	7'-1"	
e(E)	70	#4	17'-6"	
e1(E)	6	#8	33'-8"	
e2(E)	8	#4	24'-1"	
m10(E)	8	#6	37'-4"	
m11(E)	24	#6	7'-7"	
m12(E)	12	#6	2'-2"	
m13(E)	30	#5	4'-0"	
s10(E)	68	#5	7'-3"	
s11(E)	68	#5	10'-0"	
v100(E)	74	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	30,240	
Concrete Superstructure		Cu. Yds.	136	
Bridge Deck Grooving		Sq. Yds.	318	
Protective Coat		Sq. Yds.	426	

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

Notes:

The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

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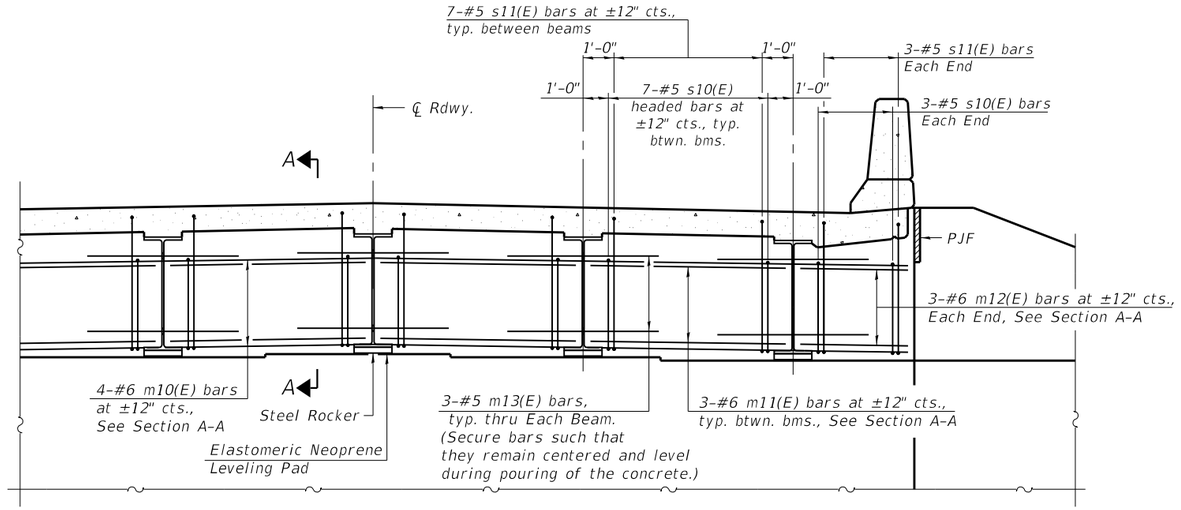
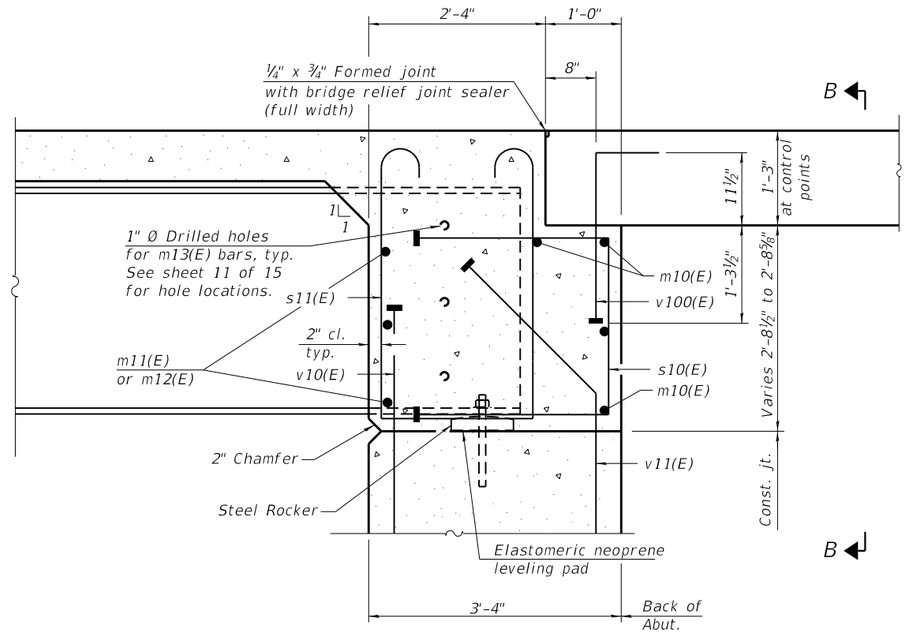
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTUCTURE DETAILS
STRUCTURE NO. 072-3155
SHEET NO. 6 OF 15 SHEETS

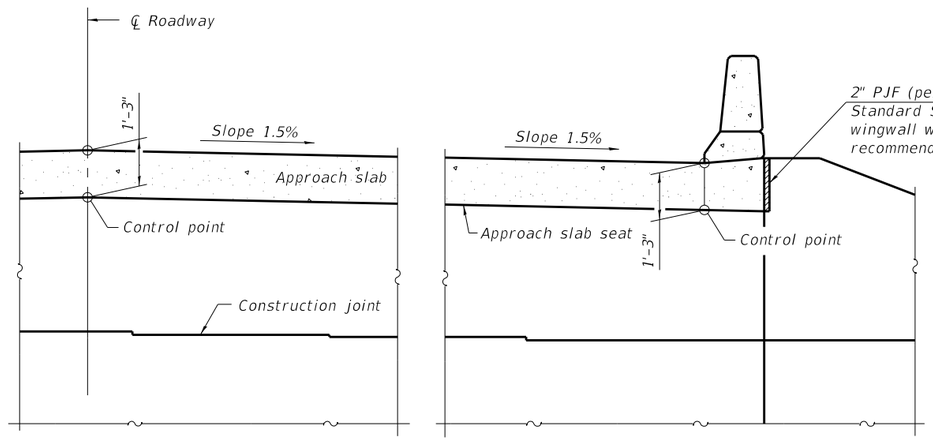
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	20
		CONTRACT NO. 89744		
		ILLINOIS	FED. AID PROJECT	



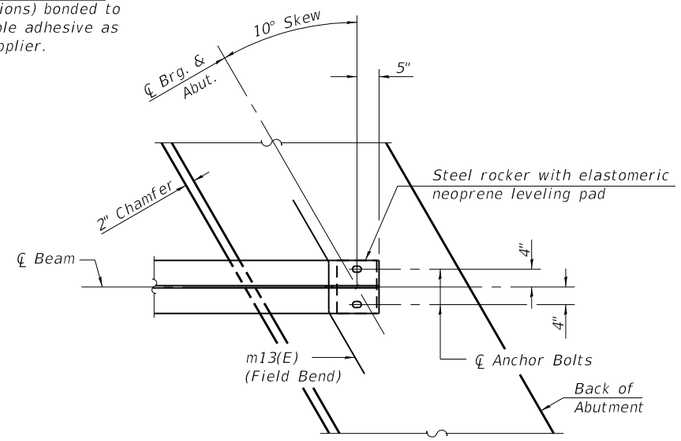
DIAPHRAGM AT ABUTMENT



SECTION A-A
(at Rt. Z's)



SECTION B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 6 of 15.
Concrete in diaphragm is included with Concrete Superstructure on sheet 6 of 15.
For details of bars s10(E), s11(E) and v100(E) see sheet 6 of 15.
The s10(E) and s11(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
For bearing details see sheet 11 of 15.
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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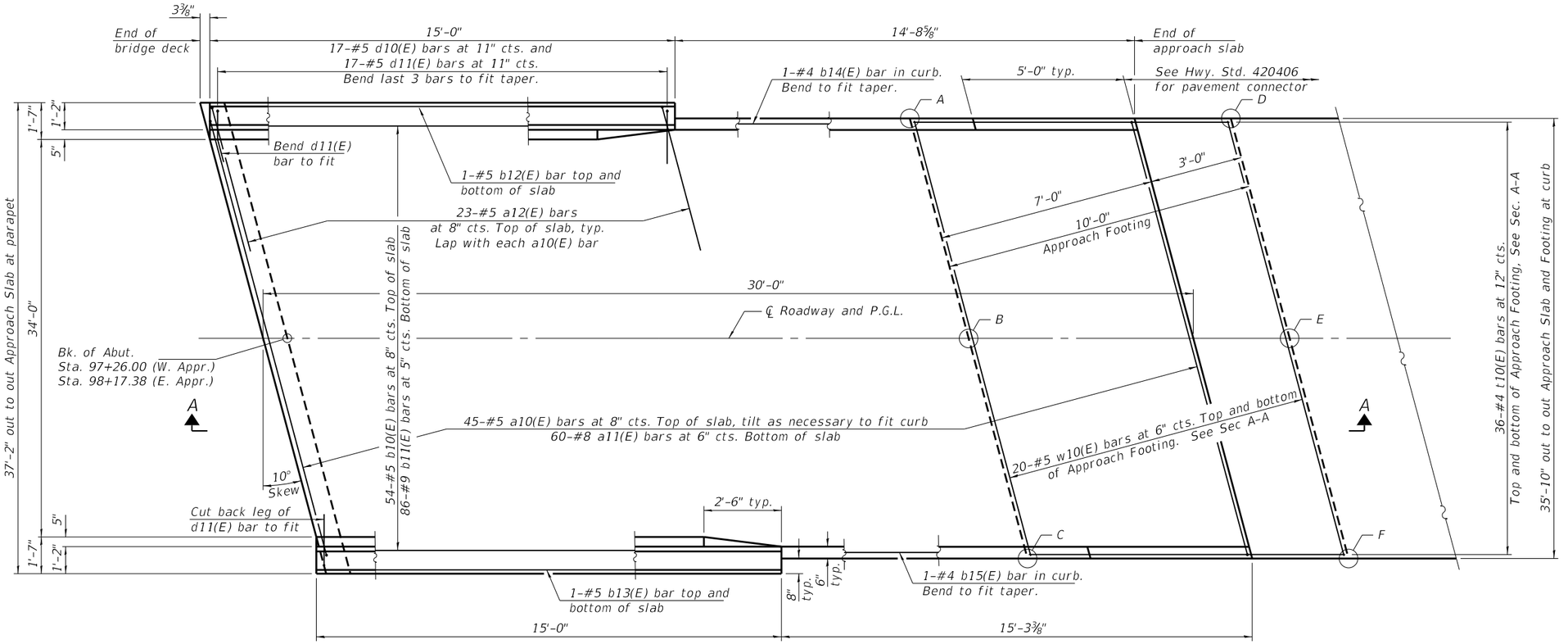
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

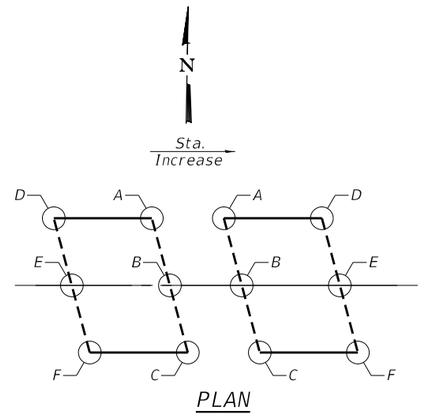
INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 072-3155
SHEET NO. 7 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	21
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



PLAN

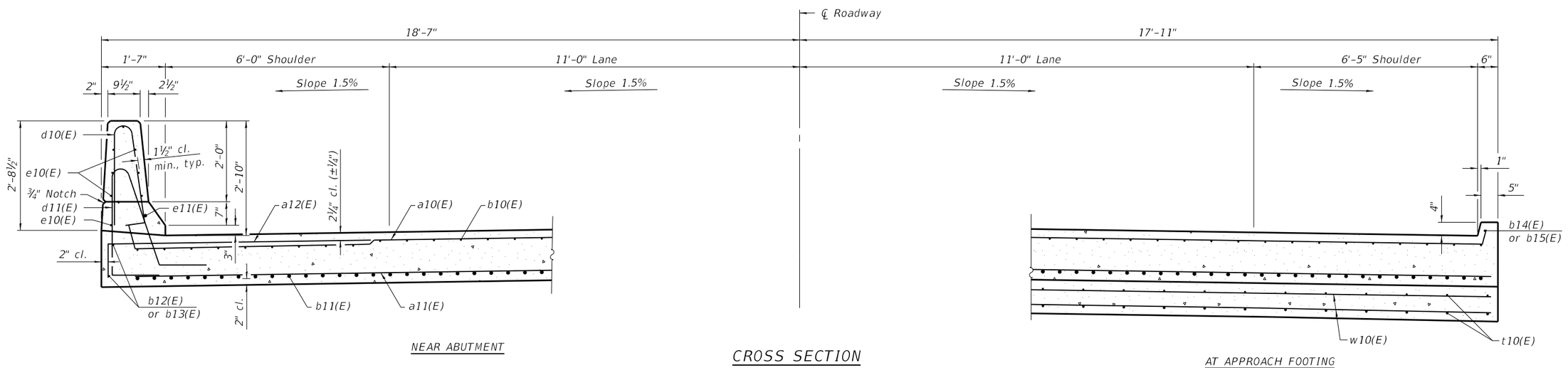
(Showing East Approach – West Approach similar)



PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	West Approach		East Approach	
Point	Top	Bottom	Top	Bottom
A	616.77	615.93	614.60	613.77
B	616.95	616.12	614.86	614.02
C	616.60	615.77	614.57	613.74
D	617.05	616.21	614.56	613.72
E	617.23	616.39	614.81	613.98
F	616.87	616.04	614.54	613.70



NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING

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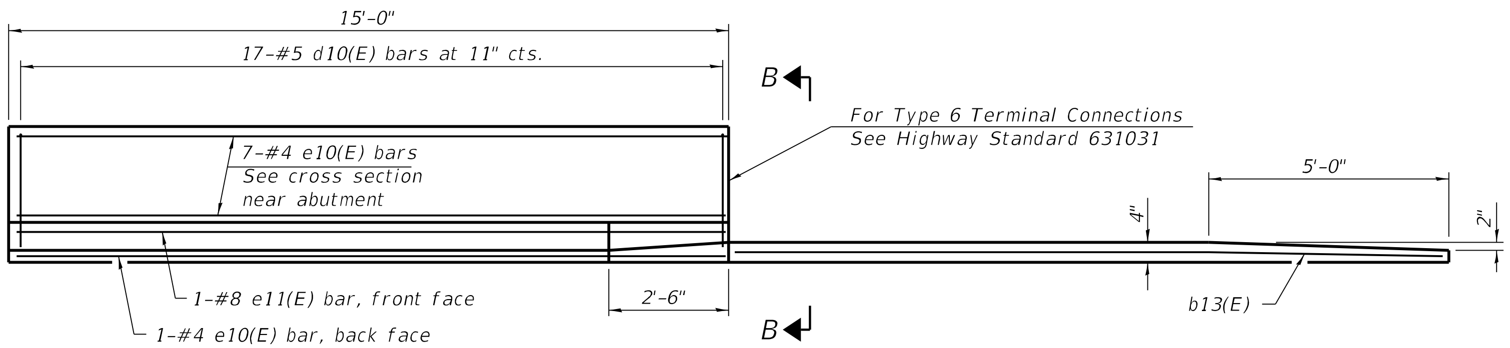
BRIDGE APPROACH SLAB DETAILS I
STRUCTURE NO. 072-3155

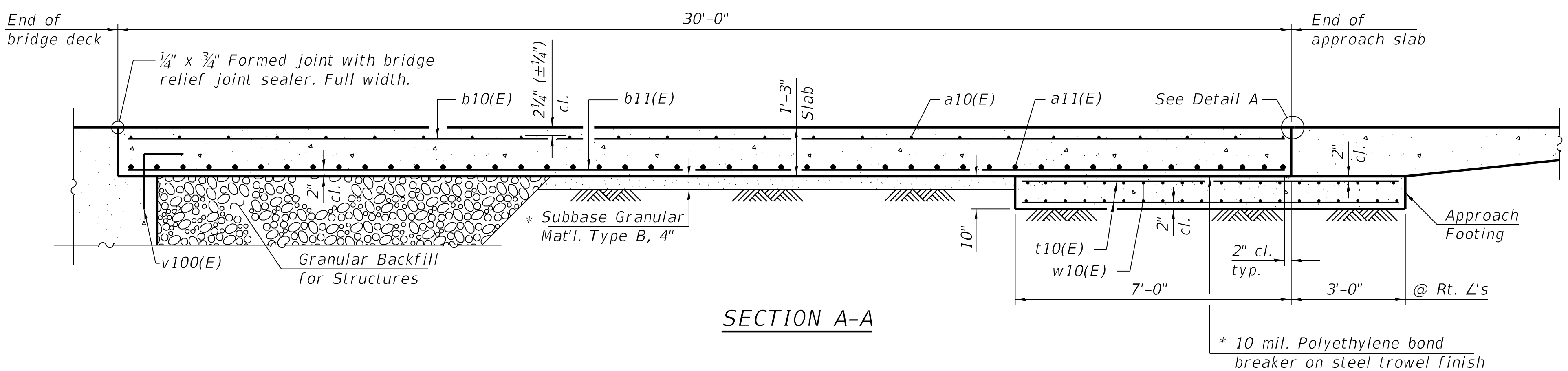
SHEET NO. 8 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	22
		CONTRACT NO. 89744		
	ILLINOIS	FED. AID PROJECT		

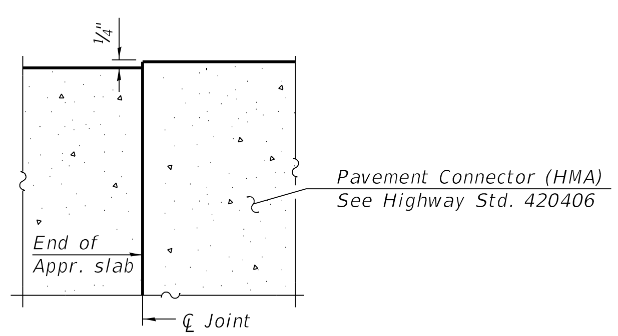
Notes:
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 15.



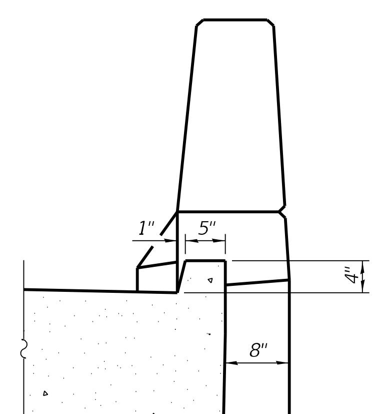
INSIDE ELEVATION OF PARAPET AND CURB



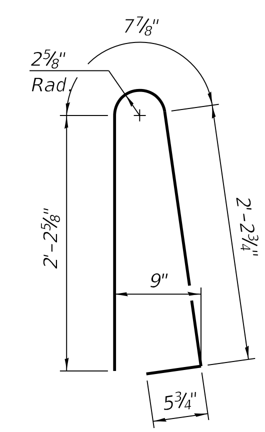
SECTION A-A



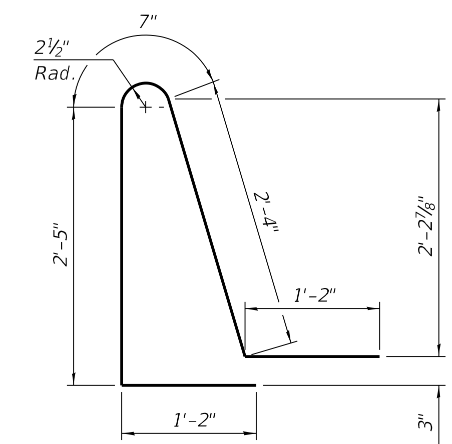
DETAIL A



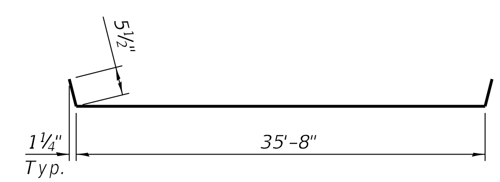
VIEW B-B



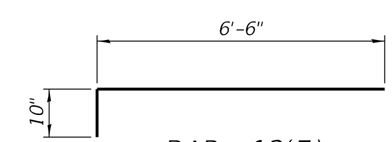
BAR d10(E)



BAR d11(E)



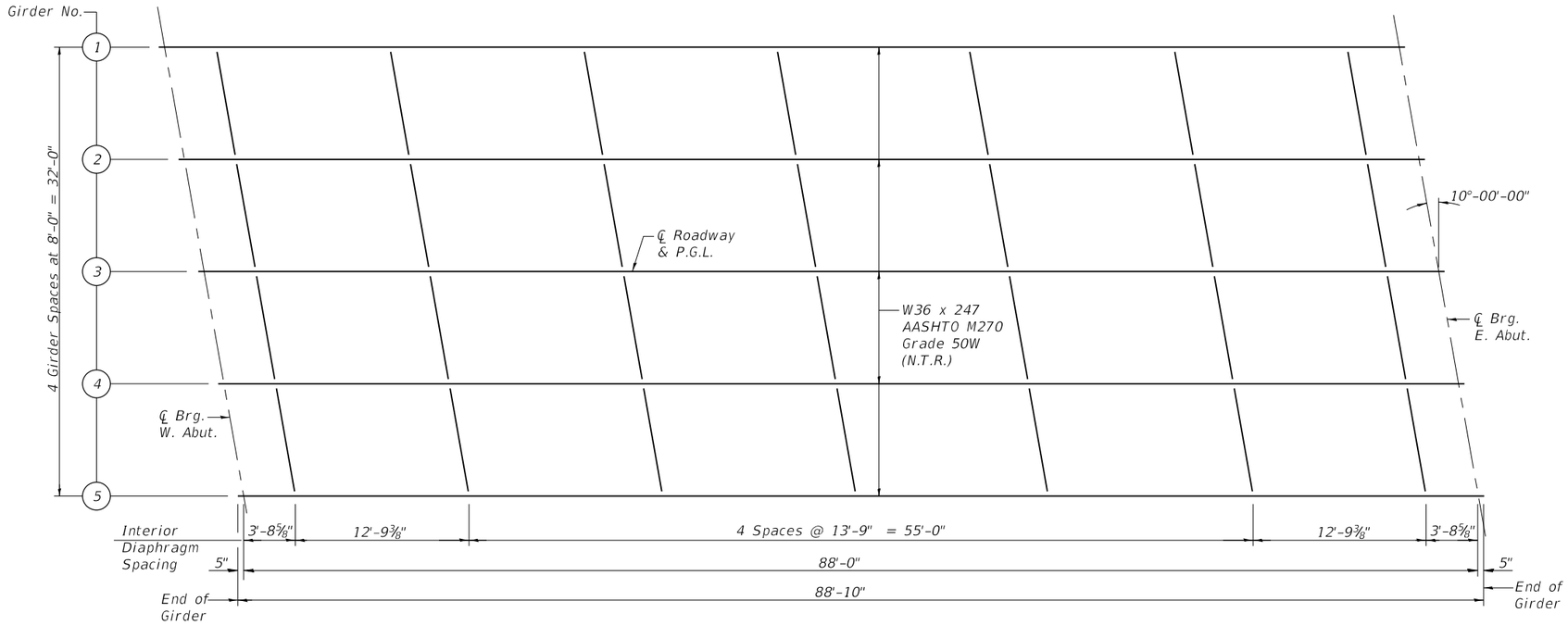
BAR a10(E)



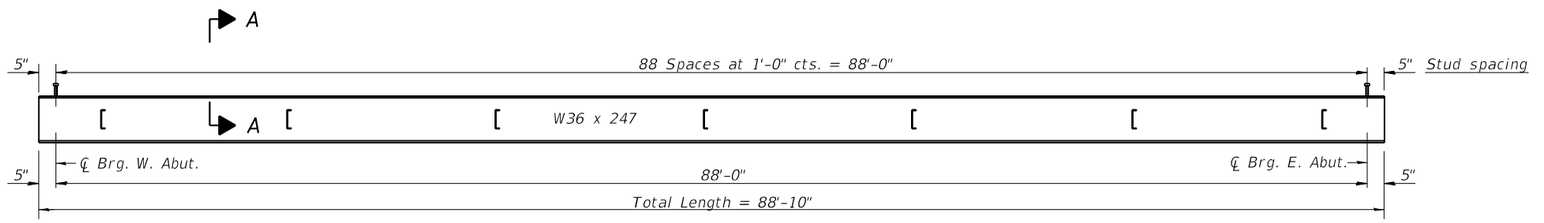
BAR a12(E)

TWO APPROACHES
BILL OF MATERIAL

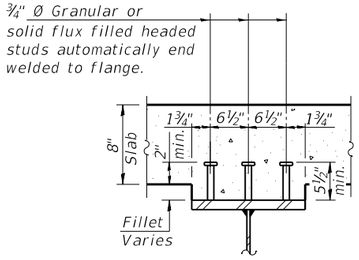
Bar	No.	Size	Length	Shape
a10(E)	90	#5	36'-7"	
a11(E)	120	#8	36'-0"	
a12(E)	92	#5	7'-4"	
b10(E)	108	#5	29'-8"	
b11(E)	172	#9	29'-8"	
b12(E)	4	#5	14'-5"	
b13(E)	4	#5	14'-8"	
b14(E)	2	#4	14'-4"	
b15(E)	2	#4	14'-11"	
d10(E)	68	#5	5'-7"	
d11(E)	68	#5	7'-8"	
e10(E)	32	#4	14'-8"	
e11(E)	4	#8	14'-8"	
t10(E)	144	#4	9'-9"	
w10(E)	80	#5	36'-0"	
Concrete Superstructure		Cu. Yd.	1.8	
Concrete Superstructure (Approach Slab)		Cu. Yd.	101.4	
Concrete Structures		Cu. Yd.	22.5	
Bridge Deck Grooving		Sq. Yd.	213	
Protective Coat		Sq. Yd.	260	
Reinforcement Bars, Epoxy Coated		Pound	41,880	



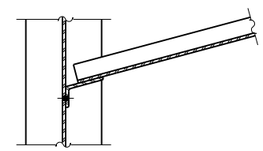
FRAMING PLAN



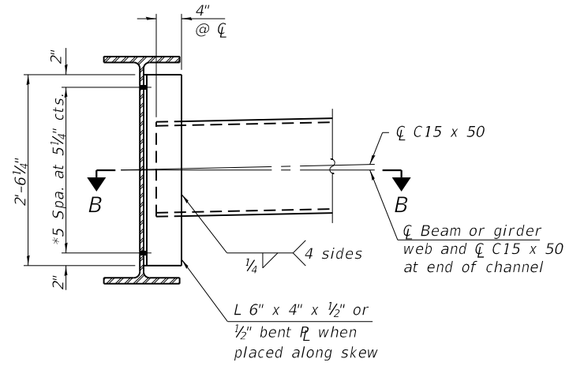
BEAM ELEVATION



SECTION A-A



SECTION B-B



INTERIOR DIAPHRAGM

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

* ¾" Ø HS bolts, $1\frac{5}{16}$" Ø holes

NOTES:

1. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
2. Load carrying components designed "N.T.R." shall conform to the supplemental requirements for notch toughness (Zone 2).
3. All steel for beams, cross frames and connection plates shall be AASHTO M270 Grade 50W.

TOP OF BEAM ELEVATIONS

LOCATION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5
℄ Brg. W. Abut.	616.74	616.83	616.91	616.76	616.61
℄ Brg. E. Abut.	615.33	615.44	615.55	615.42	615.28

For fabrication only

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stud Shear Connectors	Each	1,335

USER NAME =	DESIGNED - LM	REVISED -	
FILE NAME = 10 Framing Plan.dgn	CHECKED - DAC	REVISED -	
PLOT SCALE =	DRAWN - GLD	REVISED -	
PLOT DATE =	CHECKED - LM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND DETAILS
STRUCTURE NO. 072-3155
SHEET NO. 10 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	24
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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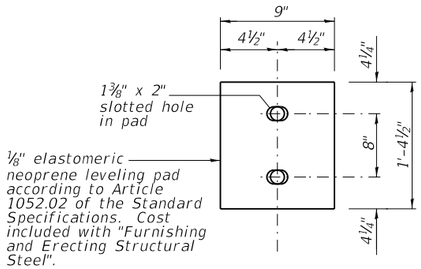
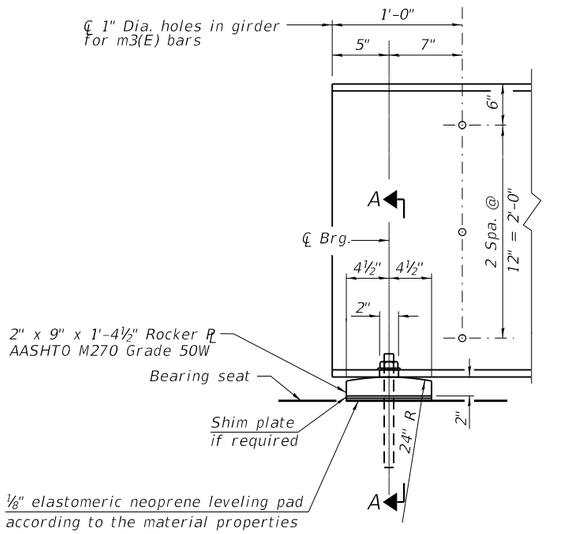
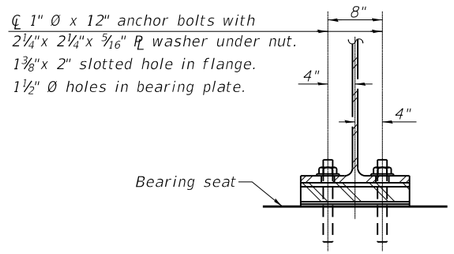


PLAN
ELASTOMERIC NEOPRENE LEVELING PAD (ABUT.)

(10 Required)



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
Is	(in^4)	16,700
Ic(n)	(in^4)	35,402
Ic(3n)	(in^4)	26,647
Ic(cr)	(in^4)	18,631
Ss	(in^3)	911
Sc(n)	(in^3)	1169
Sc(3n)	(in^3)	1076
Sc(cr)	(in^3)	947
DC1	(k/')	1.110
MDC1	('k)	1,073
DC2	(k/')	0.180
MDC2	('k)	176
DW	(k/')	0.340
MDW	('k)	332
LLDF		0.645
M_{L+IM}	('k)	1,378
Mu (Strength I)	('k)	4,471
Øf Mn	('k)	5,750
fs DC1	(ksi)	14.13
fs DC2	(ksi)	1.96
fs DW	(ksi)	3.70
fs (L+IM)	(ksi)	14.15
fs (Service II)	(ksi)	38.19
0.95Rh Fyf	(ksi)	47.5
fs (Total)(Strength I)	(ksi)	50.43
Øf Fn	(ksi)	50
Vf	(k)	16.6

BEAM REACTION TABLE			
		Abutment	
		Interior	Exterior
LLDF		0.81	0.57
OCF		———	1.04
R_{DC1}	(k)	62.95	58.04
R_{DC2}	(k)	9.9	9.8
R_{DW}	(k)	22.6	22.3
R_{L}	(k)	110.8	100.6
R_{IM}	(k)	26	23
R_{Total}	(k)	232.25	213.43

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Mu (Strength I): Factored design moment (kip-ft.).
$1.25\ (MDC1 + MDC2) + 1.5\ MDW + 1.75\ M_{L+IM}$

Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc

fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.

fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{L+IM} / Sc(n) or M_{L+IM} / Sc(cr) as applicable.

fs (Service II): Sum of stresses as computed below (ksi).
$fsDC1 + fsDC2 + fsDW + 1.3\ fs(L+IM)$

0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (fsDC1 + fsDC2) + 1.5\ fsDW + 1.75\ fs(L+IM)$

Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

NOTES:

1. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.
2. Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
3. Anchor bolts shall be according to Article 521.06 of the Standard Specifications.
4. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
5. Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	20

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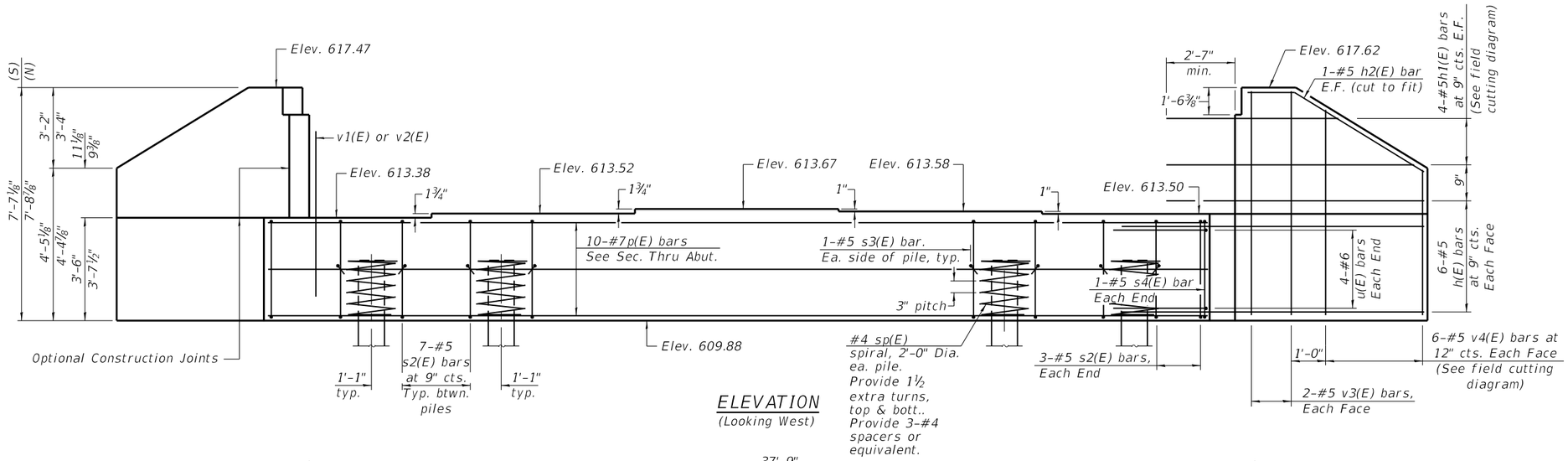
PLOT SCALE =	DRAWN - GLD	REVISED -
PLOT DATE =	CHECKED - LM	REVISED -

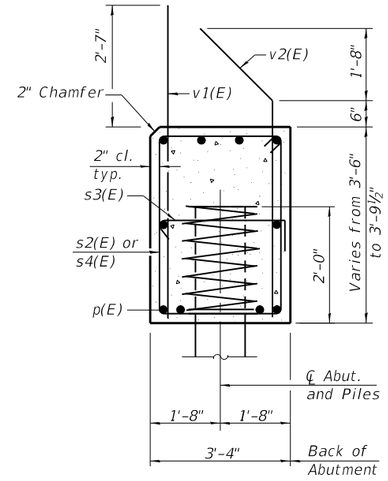
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 072-3155
SHEET NO. 11 OF 15 SHEETS

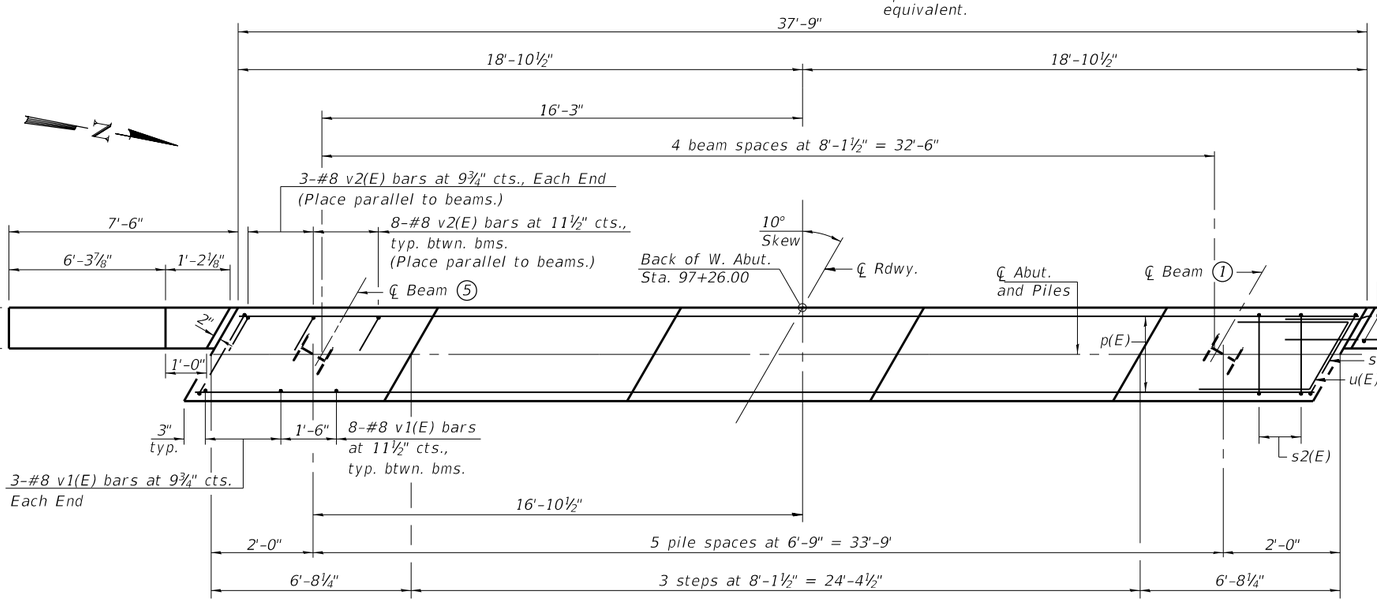
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	25
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			



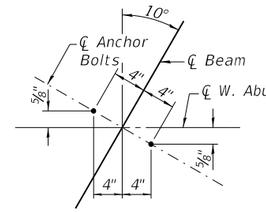
ELEVATION
(Looking West)



SEC. THRU ABUT.
Dimensions at right angles to abutment.



PLAN



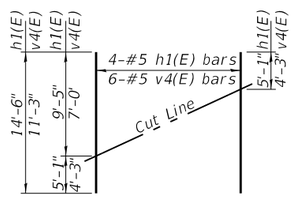
ANCHOR BOLT LAYOUT

BILL OF MATERIAL

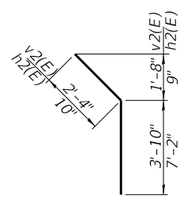
	Bar	No.	Size	Length	Shape
	h(E)	24	#5	10'-0"	
	h1(E)	8	#5	14'-6'	
	h2(E)	4	#5	8'-0"	
	p(E)	10	#7	37'-5"	
	s2(E)	41	#5	13'-3"	
	s3(E)	12	#5	4'-0"	
	s4(E)	2	#5	13'-5"	
*	sp(E)	6	#4	2'-0"	
	u(E)	8	#6	10'-7"	
	v1(E)	38	#8	5'-11"	
	v2(E)	38	#8	6'-2"	
	v3(E)	8	#5	7'-3"	
	v4(E)	12	#5	11'-3"	
	Structure Excavation		Cu. Yd.	18	
	Concrete Structures		Cu. Yd.	19.8	
	Reinforcement Bars, Epoxy Coated		Pound	3,400	
	Furnishing Steel Piles, HP 14x73		Foot	170	
	Driving Piles		Foot	170	
	Test Pile Steel HP 14x73		Each	1	

*Length is height of spiral

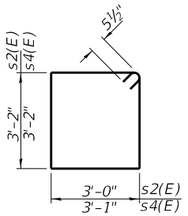
PILE DATA
Type: HP 14x73
Nominal Required Bearing: 528^k
Factored Resistance Available: 290^k
Est. Length: 34
No. Production Piles: 5
No. Test Piles: 1



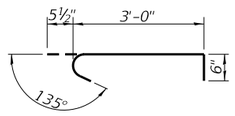
FIELD CUTTING DIAGRAM
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR v2(E) & h2(E)



BAR s2(E) & s4(E)



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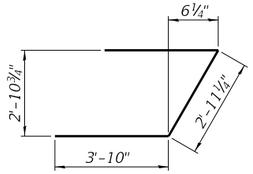

BAR u(E)

NOTES:
1. Pour steps monolithically with cap.
2. Space reinforcement to miss anchor bolts.
3. See Sheet 2 of 15 for Abutment Backfill requirements.
4. See Sheet 14 of 15 for Steel H-Pile Details.

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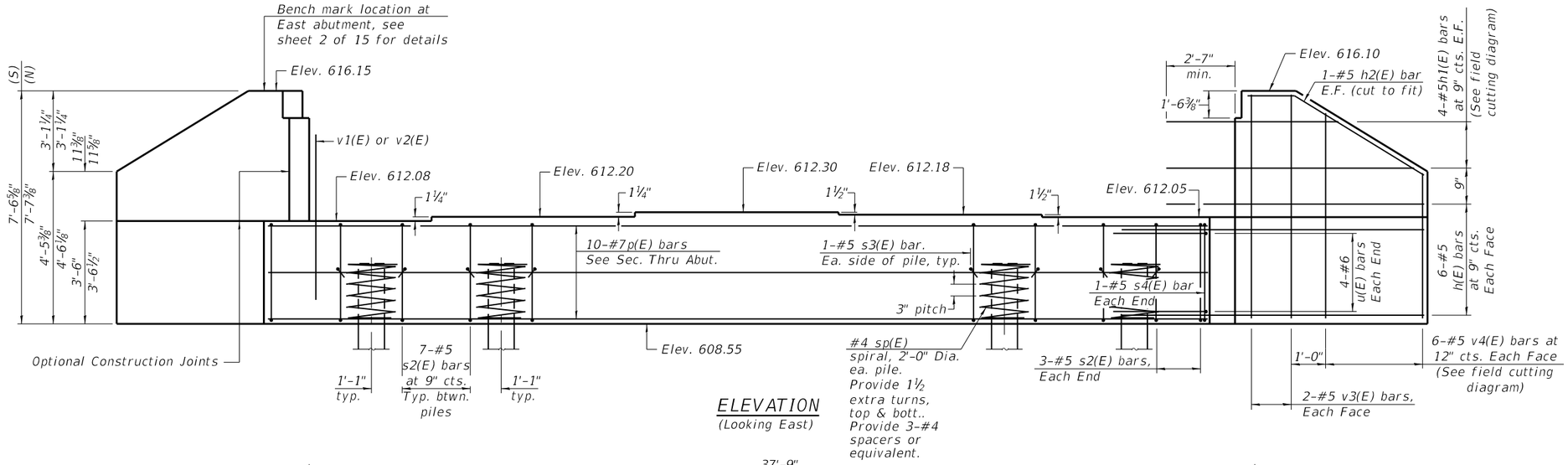
PLOT DATE =	CHECKED - LM	REVISED -	

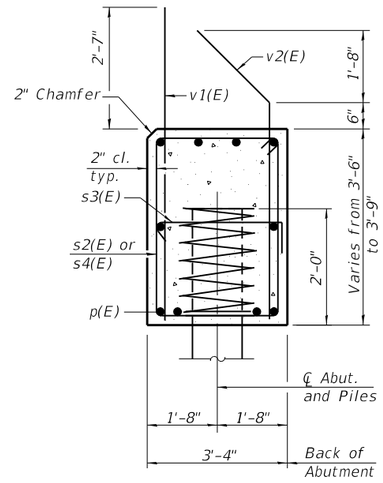
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 072-3155
SHEET NO. 12 OF 15 SHEETS

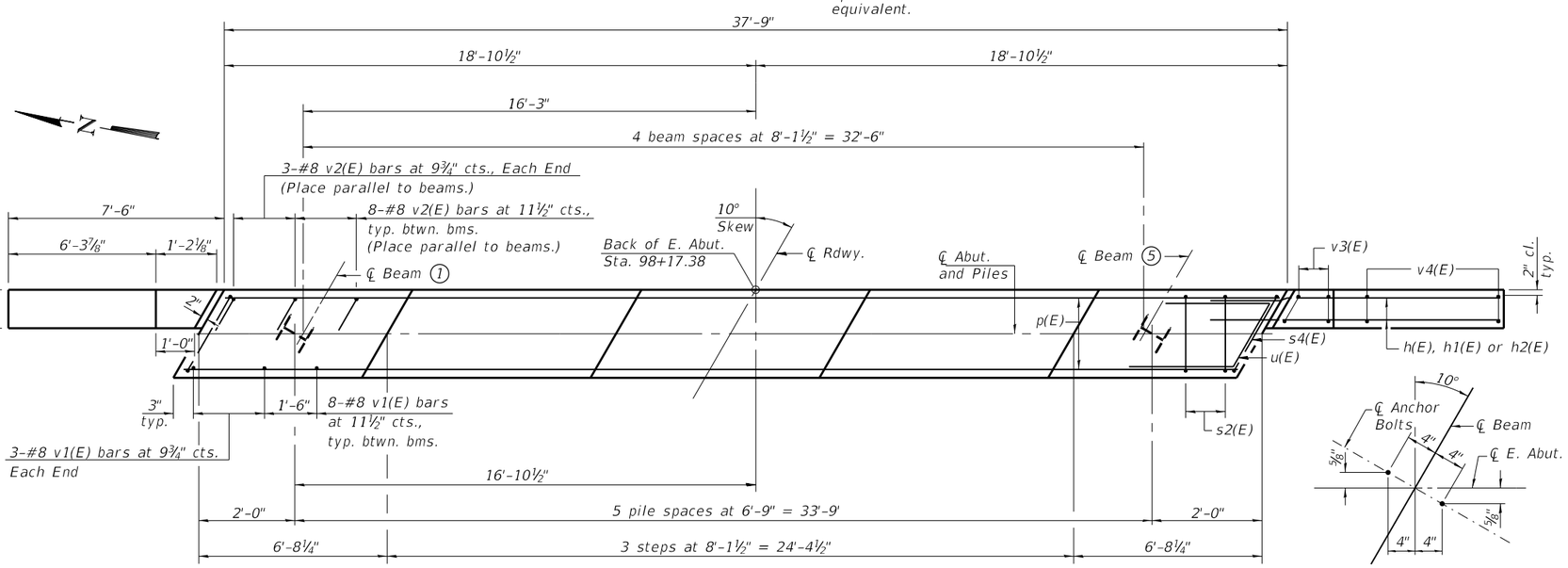
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	26
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		



ELEVATION
(Looking East)



SEC. THRU ABUT.
Dimensions at right angles to abutment.



PLAN

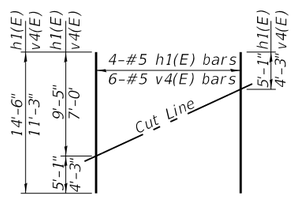
ANCHOR BOLT LAYOUT

BILL OF MATERIAL

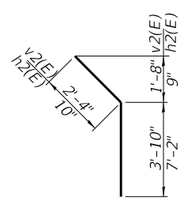
	Bar	No.	Size	Length	Shape
	h(E)	24	#5	10'-0"	
	h1(E)	8	#5	14'-6'	
	h2(E)	4	#5	8'-0"	
	p(E)	10	#7	37'-5"	
	s2(E)	41	#5	13'-3"	
	s3(E)	12	#5	4'-0"	
	s4(E)	2	#5	13'-5"	
*	sp(E)	6	#4	2'-0"	
	u(E)	8	#6	10'-7"	
	v1(E)	38	#8	5'-11"	
	v2(E)	38	#8	6'-2"	
	v3(E)	8	#5	7'-3"	
	v4(E)	12	#5	11'-3"	
	Structure Excavation		Cu. Yd.	20	
	Concrete Structures		Cu. Yd.	19.6	
	Reinforcement Bars, Epoxy Coated		Pound	3,400	
	Furnishing Steel Piles, HP 14x73		Foot	170	
	Driving Piles		Foot	170	
	Test Pile Steel HP 14x73		Each	1	

*Length is height of spiral

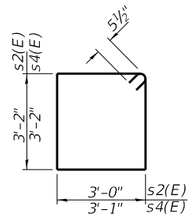
PILE DATA
Type: HP 14x73
Nominal Required Bearing: 528^k
Factored Resistance Available: 290^k
Est. Length: 34
No. Production Piles: 5
No. Test Piles: 1



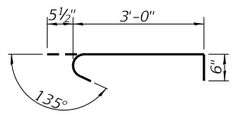
FIELD CUTTING DIAGRAM
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



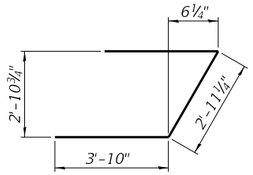
BAR v2(E) & h2(E)



BAR s2(E) & s4(E)



BAR s3(E)



BAR u(E)

NOTES:
1. Pour steps monolithically with cap.
2. Space reinforcement to miss anchor bolts.
3. See Sheet 2 of 15 for Abutment Backfill requirements.
4. See Sheet 14 of 15 for Steel H-Pile Details.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 072-3155
SHEET NO. 13 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	27
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

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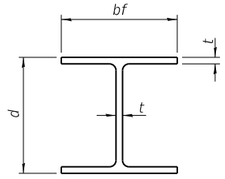
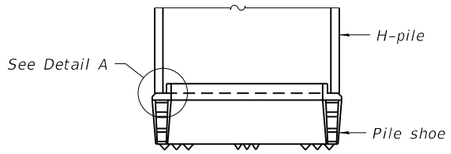
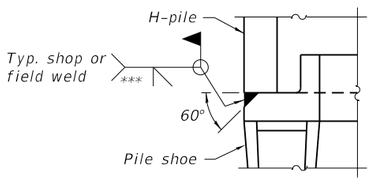


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14¼"	14⅞"	1 3/16"	30"
x102	14"	14¾"	1 1/16"	30"
x89	13⅞"	14¾"	⅝"	30"
x73	13⅝"	14⅝"	½"	30"
HP 12x84	12¼"	12¼"	1 1/16"	24"
x74	12⅛"	12¼"	⅝"	24"
x63	12"	12⅛"	½"	24"
x53	11¾"	12"	7/16"	24"
HP 10x57	10"	10¼"	9/16"	24"
x42	9¾"	10⅛"	7/16"	24"
HP 8x36	8"	8⅛"	7/16"	18"



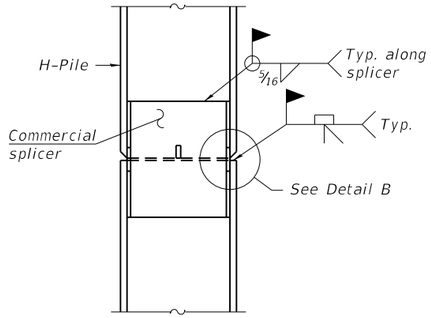
ELEVATION



DETAIL A

SHOE ATTACHMENT

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



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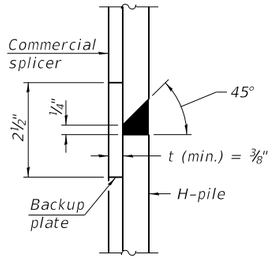
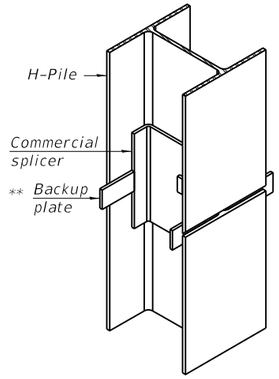
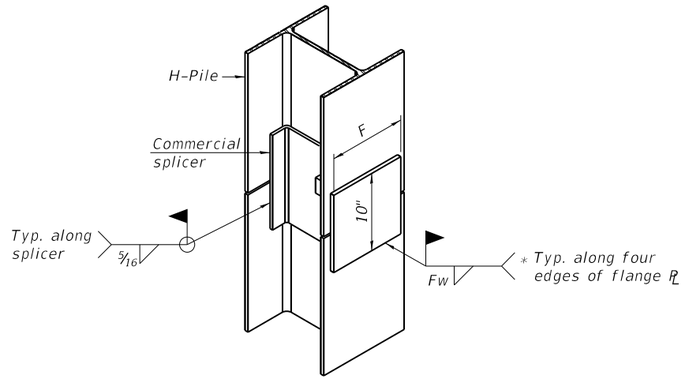


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



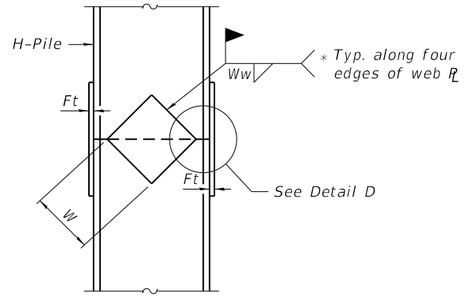
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds ¼" 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.).



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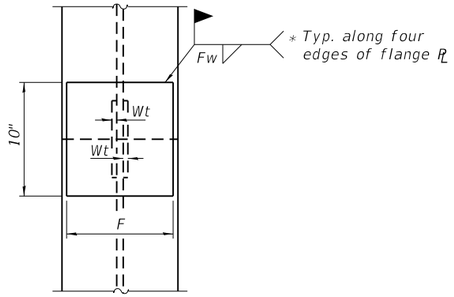
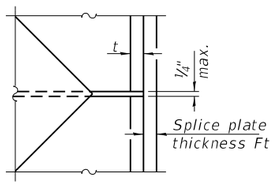


END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	⅞"	7¾"	⅝"	½"
x102	12½"	⅞"	¾"	7¾"	⅝"	½"
x89	12½"	¾"	1 1/16"	7¾"	⅝"	½"
x73	12½"	⅝"	9/16"	7¾"	⅝"	½"
HP 12x84	10"	⅞"	1 1/16"	6½"	⅝"	½"
x74	10"	⅞"	1 1/16"	6½"	⅝"	½"
x63	10"	⅝"	½"	6½"	½"	⅜"
x53	10"	⅝"	½"	6½"	½"	⅜"
HP 10x57	8"	¾"	9/16"	5¼"	½"	⅜"
x42	8"	⅝"	9/16"	5¼"	½"	⅜"
HP 8x36	7"	⅝"	7/16"	4¼"	½"	⅜"

WELDED PLATE FIELD SPLICE

F-HP 8-11-2017

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CMT
License No. 184-000613

USER NAME =	DESIGNED - LM	REVISED -
FILE NAME = 14 HP Pile Details.dgn	CHECKED - DAC	REVISED -
PLOT SCALE =	DRAWN - GLD	REVISED -
PLOT DATE =	CHECKED - LM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 072-3155
SHEET NO. 14 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	28
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Page 1 of 1
Date 8/22/17

ROUTE CH D52 DESCRIPTION Smithville Rd. Over Branch of Copperas Creek

SECT. 14-00005-05-BR STRUCT. NO. 072-3155 DRILLED BY D. Crump

COUNTY Peoria LOCATION Trivoli Township S 26/35, TWP. 8N, RNG. 5E

Boring No. B-1 West Abutment
Station 97+12
Offset 9.00ft LT
Surface Elev. 617.60 ft

Surface Water Elev. ____
Groundwater Elev.:
when drilling 597.6
at Completion ____
after ____ Hrs. ____

DEPTH	BLOWS	Qu tsf	W %
Brown fine to coarse SAND and small GRAVEL 616.60			
Very stiff brown SILTY CLAY	6 3 2	P 2.25	14
614.60			
Soft dark gray SILTY CLAY LOAM	2 2 4	P 0.5	19
-5			
611.60			
Stiff dark gray SILTY LOAM	0 3 3	P 1.5	17
609.60			
Soff gray SILTY LOAM	0 2 2	P 0.5	16
-10			
606.60			
Stiff gray SILTY LOAM	1 2 3	P 1.07	19
604.60			
Very stiff brown SILTY CLAY	3 3 5	P 2.25	14
-15			
601.60			
Stiff to medium stiff gray SILTY LOAM	4 2 3	P 1.0	26
	2 2 2	B 0.82	29
-20			
596.60			
Very loose brown fine to medium SAND	2 2 2		20
594.60			
Loose gray SANDY LOAM	1 3 3		23
592.60 -25			

DEPTH	BLOWS	Qu tsf	W %
Very loose gray SANDY LOAM			
	0 0 0		23
589.60			
Very loose gray fine to coarse SAND	1 1 2		
-30			
585.60			
Medium dense gray fine to coarse SAND			
	4 8 11		16
582.60 -35			
Very dense gray weathered SHALE			
	18 40 50/5"		7
577.60 -40			
Very dense gray SHALE			
Core Run #1 Recovery - 93% RQD - 79%			
Lower 7" Limestone			
End of Boring at 50' 567.60 -50			

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 8/23/17

ROUTE CH D52 DESCRIPTION Smithville Rd. Over Branch of Copperas Creek

SECT. 14-00005-05-BR STRUCT. NO. 072-3155 DRILLED BY D. Crump

COUNTY Peoria LOCATION Trivoli Township S 26/35, TWP. 8N, RNG. 5E

Boring No. B-2 East Abutment
Station 98+31
Offset 8.00ft RT
Surface Elev. 615.90 ft

Surface Water Elev. ____
Groundwater Elev.:
when drilling 592.9
at Completion ____
after ____ Hrs. ____

DEPTH	BLOWS	Qu tsf	W %
Medium desne brown fine to coarse SAND and small GRAVEL			
	11 7 4		5
612.90			
Stiff brown SILTY LOAM	3 3 2	P 1.0	12
-5			
	2 2 2	B 1.03	18
607.90			
Stiff to medium stiff brown-gray SILTY LOAM	2 2 2	B 1.07	16
-10			
	3 2 2	B 0.62	16
	1 3 3	B 1.13	16
-15			
599.90			
Medium stiff to soft dark gray SILTY LOAM	1 2 2	P 0.75	14
	1 1 3	P 0.5	14
-20			
593.90			
Loose brown fine to coarse SAND	0 2 3	P 0.5	22
	1 2 3		
590.90 -25			

DEPTH	BLOWS	Qu tsf	W %
Loose brown fine to coarse SAND			
	1 2 3		
586.90			
	4 25 35		8
Very dense gray weathered SHALE -30			
	21 50/5"		13
580.90 -35			
Very dense gray SHALE			
-40			
Core Run #1 Recovery - 100% RQD - 23%			
Lower 3" Limestone			
570.90 -45			
End of Boring at 45'			
-50			

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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CMT
License No. 184-000613

USER NAME =	DESIGNED - LM	REVISED -	
FILE NAME = 15 Borings.dgn	CHECKED - DAC	REVISED -	
PLOT SCALE =	DRAWN - GLD	REVISED -	
PLOT DATE =	CHECKED - LM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS B-1 & B-2
STRUCTURE NO. 072-3155
SHEET NO. 15 OF 15 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	29
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL ALL APPLICABLE EROSION CONTROL MEASURES PRIOR TO ANY SITE DISTURBANCE.

2. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS SHOWN ON THIS EROSION CONTROL PLAN. MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

3. ALL UNSURFACED (OR PERMANENT NON-AGGREGATE) AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL RECEIVE A MINIMUM 4" OF TOPSOIL, FERTILIZER, SEED, HYDRAULIC MULCH AND/OR EROSION CONTROL BLANKET IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL TURF AREAS SHALL BE CHECKED REGULARLY TO MAINTAIN A HEALTHY STAND OF GRASS. AREAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED.

4. CONTRACTOR SHALL ESTABLISH POINTS OF INGRESS AND EGRESS FROM EXISTING ROADWAYS. THE WORK SHALL BE IN ACCORDANCE WITH THE DETAIL ENTITLED STABILIZED CONSTRUCTION ENTRANCE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT WHICH MAY COLLECT IN THE STORM SEWER OR CULVERT SYSTEM.

6. SEDIMENT SHALL BE REMOVED FROM STRAW WATTLES OR SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE BARRIER IN PLACE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO BE MAINTAINED IN FULLY FUNCTIONAL CONDITION THROUGHOUT THE ENTIRE PROJECT.

8. CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS, MUD, TEMPORARY FENCING, ETC. UPON COMPLETION OF CONSTRUCTION.

9. TEMPORARY EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

10. ALL PERMANENT AND/OR TEMPORARY CHANNEL RELOCATION OR MODIFICATION SHALL BE CONSTRUCTED UNDER DRY CONDITIONS AND STABILIZED PRIOR TO DIVERSION OF FLOW THROUGH THE NEW CHANNEL.

11. ANY DEVIATION OF THE TEMPORARY EROSION CONTROL PLAN OR SCHEDULE BY THE CONTRACTOR SHALL BE AT THE DISCRETION OF THE ENGINEER.

12. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

13. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.

14. SEEDING SHALL BE PLACED PER THE CLASSES BY LOCATION SHOWN ON THE SWPPP PLAN SHEET. CLASS 2A SEEDING SHALL BE PLACED ON SLOPES 1V:3H OR FLATTER. CLASS 3 SEEDING SHALL BE PLACED ON SLOPES STEEPER THAN 1V:3H.

15. IF SOIL STOCKPILING IS UTILIZED, SILT FENCES SHALL BE USED TO HELP CONTAIN THE SEDIMENT AND AVOID EROSION.

BEST MANAGEMENT PRACTICES SEQUENCE:

THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING SEQUENCE OF EVENTS DURING CONSTRUCTION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY CHANGES MADE TO THE PHASING:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER EROSION CONTROL AT EDGE OF LIMITS OF DISTURBANCE.

2. TEMPORARY SEDIMENT BASIN AT CREEK OUTFALL PER DETAIL ON THIS SHEET.

3. BEGIN ROUGH GRADING OF SITE. TEMPORARILY STABILIZE ALL DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 OR MORE CALENDAR DAYS WITH TEMP. EROSION CONTROL SEEDING AND MULCH, METHOD 3A. THE LAST PASS ON ANY ROUGH GRADED SLOPE SHALL BE UP AND DOWN THE SLOPE, SO THAT DOZER TRACKS ARE LEFT PERPENDICULAR OR ACROSS THE SLOPE, NOT IN LINE WITH IT.

4. INSTALL DITCH CHECKS AS ROUGH GRADING PROGRESSES AND MAINTAIN AS NEEDED.

5. MAINTAIN PERIMETER EROSION CONTROL (SILT FENCE, STRAW WATTLES) TO BE FREE OF ACCUMULATED SEDIMENT. REPAIR AS NEEDED AND REPLACE WHEN DAMAGED.

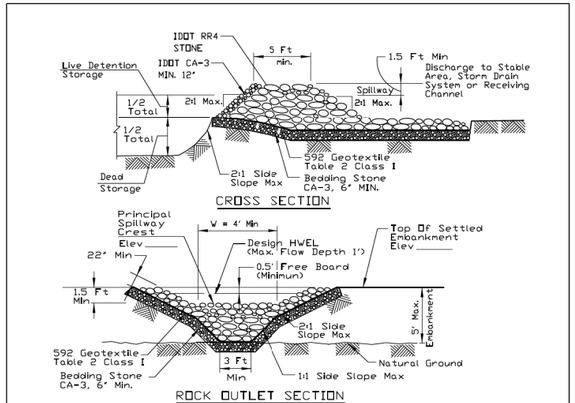
6. PROVIDE INLET AND PIPE PROTECTION APPROPRIATE FOR INLET TYPE AND STAGE OF CONSTRUCTION. MAINTAIN INLETS AND CULVERTS TO BE FREE OF ACCUMULATED SEDIMENT DURING CONSTRUCTION. REPAIR/REPLACE AS NEEDED.

7. PROVIDE CONCRETE WASHOUT FACILITIES IN ACCORDANCE WITH ILLINOIS URBAN MANUAL FOR ALL CEMENTITIOUS MATERIALS INCLUDING PORTLAND CEMENT CONCRETE, MORTAR, STUCCO, PAINT AND/OR GROUT. WASH WATERS CANNOT BE DISCHARGED EITHER INTO THE GROUND OR SEWERS. CLEAN CONCRETE WASH OUT FACILITIES TO MAINTAIN CAPACITIES. WASHOUT BASINS SHALL BE INCIDENTAL TO ANY CONCRETE PAY ITEMS.

8. PAVE SITE AND APPURTENANCES. COMPLETE FINAL STABILIZATION OF SITE.

9. PERFORM FINAL GRADING, LANDSCAPING AND SEEDING AS SHOWN. MAINTAIN BMP'S IN PLACE UNTIL ALL VEGETATED AREAS HAVE ACHIEVED FINAL STABILIZATION REQUIREMENTS (UNIFORM 70% COVERAGE).

10. WHEN FINAL STABILIZATION IS ACHIEVED AS DETERMINED BY OWNER'S REPRESENTATIVE, REMOVE ALL TEMPORARY BMP'S AND FILE NOTICE OF TERMINATION WITH IEPA ON OWNER'S BEHALF.



NOTES:
1. The sediment drop side slopes shall be constructed 2:1 or flatter and temporarily stabilized.
2. The rock outlet fill shall be constructed using IDOT RR-4 stone size. A 1' layerof IDOT CA-3 should be placed on the inside face to reduce the flow rate.
3. The rock will be placed according to construction specification 25 ROCKFILL. Placement will be by Method 1 and compaction will be class III.
4. The geotextile shall meet the requirements in material specification 592 GEOTEXTILE table 2, class I.

TEMPORARY SEDIMENT BASIN
ILLINOIS URBAN MANUAL DETAIL IL-660

EROSION CONTROL MAINTENANCE:

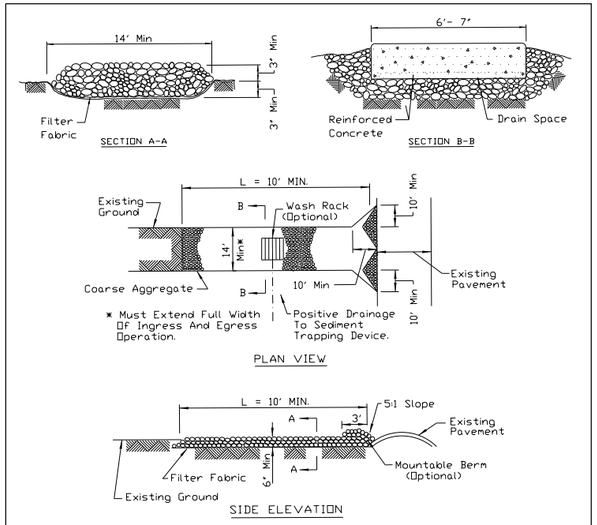
ALL MEASURES STATED ON THIS EROSION CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED CONTRACTOR REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

2. ALL TURF AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.

3. PERIMETER EROSION CONTROL SYSTEMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF THE HEIGHT OF THE CONTROL DEVICE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO ADJACENT PAVEMENTS. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

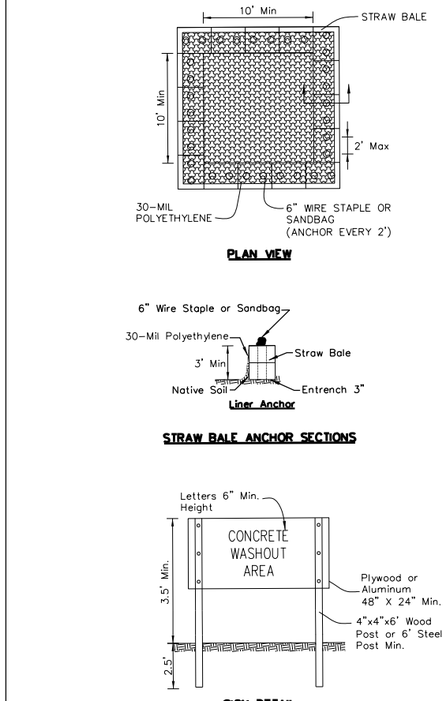


NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

STABILIZED CONTRUCTION ENTRANCE
NRCS STANDARD DRAWING IL-630

DISTURBED AREA SUMMARY

SEEDED AREA	1.10 AC
IMPERVIOUS AREA	0.78 AC
TOTAL DISTURBED AREA	1.88 AC



NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.

2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
ILLINOIS URBAN MANUAL DETAIL IMU-654SB

DIRECTORY = Emily Munday
USER NAME =

CMT
License No. 184-000613

MODEL NAME =	DESIGNED - LM/EM	REVISED -	
FILE NAME =	DRAWN - ECW	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - EMM	REVISED -	
PLOT DATE = 8/22/2019 (3:49:53 PM)	DATE - JUNE 2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	30
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

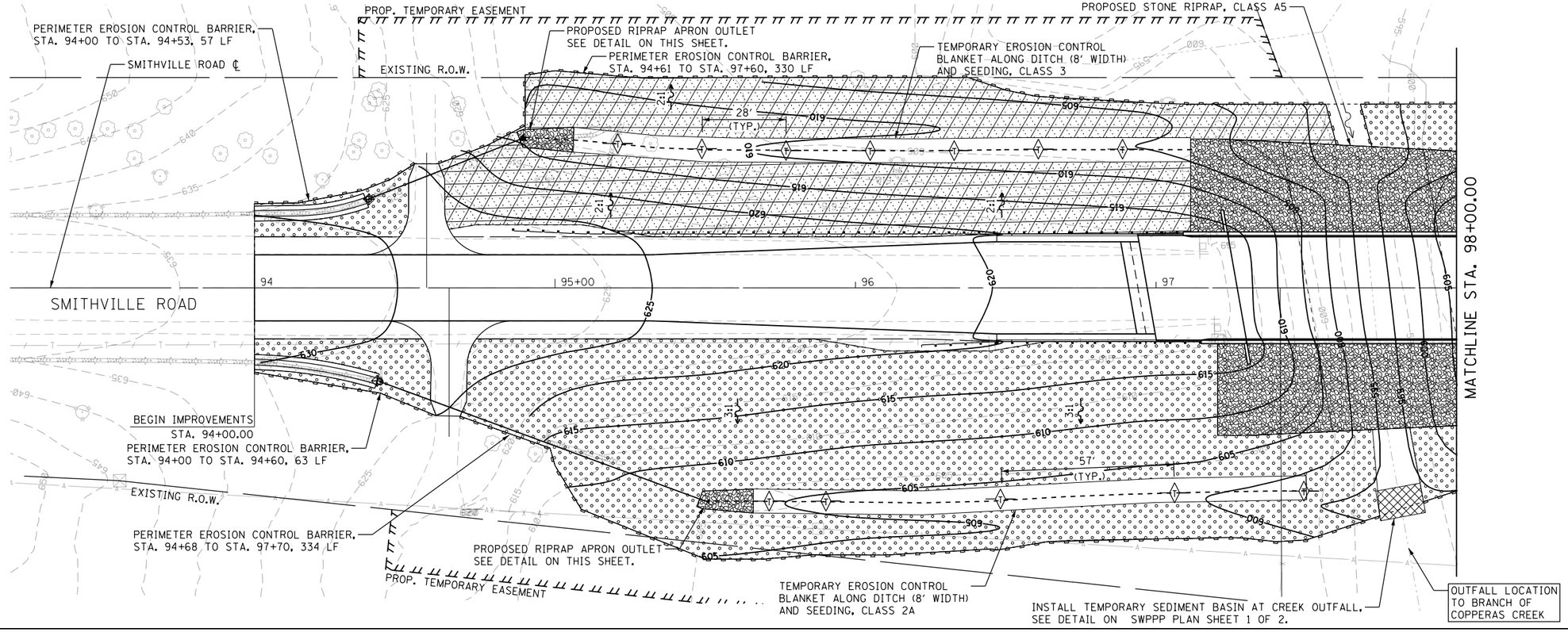
LEGEND

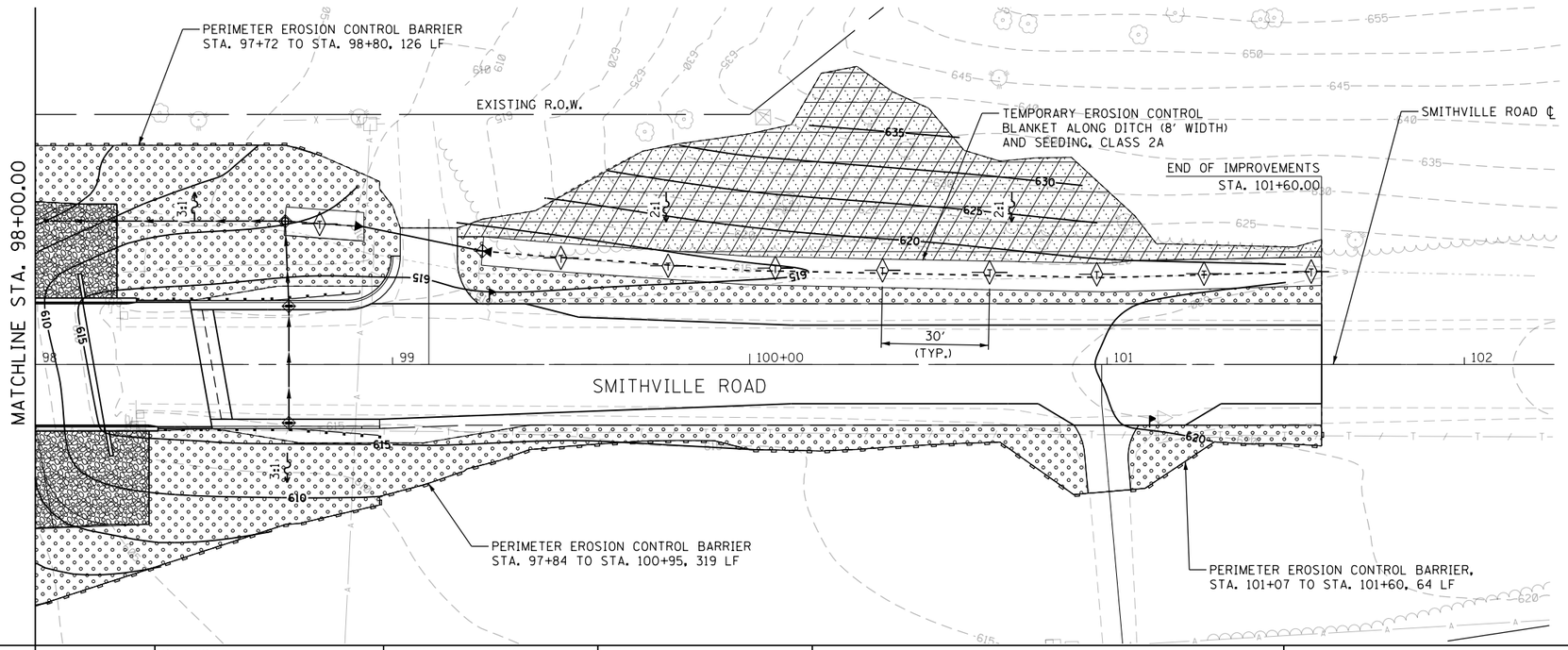
- RIPRAP
- HYDRAULICALLY APPLIED MULCH (METHOD 3A) & SEEDING, CLASS 3
- HYDRAULICALLY APPLIED MULCH (METHOD 3A) & SEEDING, CLASS 2A
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- –635– EXISTING CONTOURS
- —640— PROPOSED CONTOURS
- PERIMETER EROSION BARRIER
- DITCH ℄

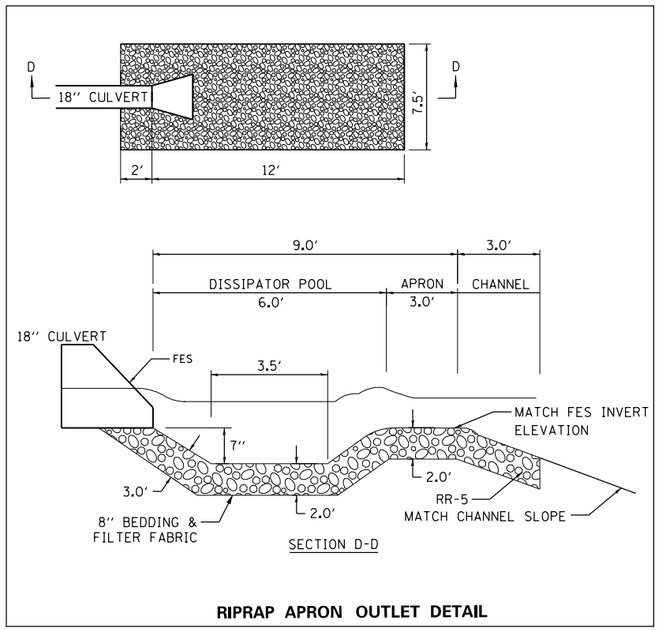
N

20′ 0 20′ 40′

SCALE: 1″ = 20′







RIPRAP APRON OUTLET DETAIL

DIRECTORY = E:\mly Monday
USER NAME =

CMT
License No. 184-000613

MODEL NAME =	DESIGNED - LM/EM	REVISED -
FILE NAME =	DRAWN - ECW	REVISED -
PLOT SCALE = 40.0000 ′ / in.	CHECKED - EMM	REVISED -
PLOT DATE = 8/22/2019 (3:49:54 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

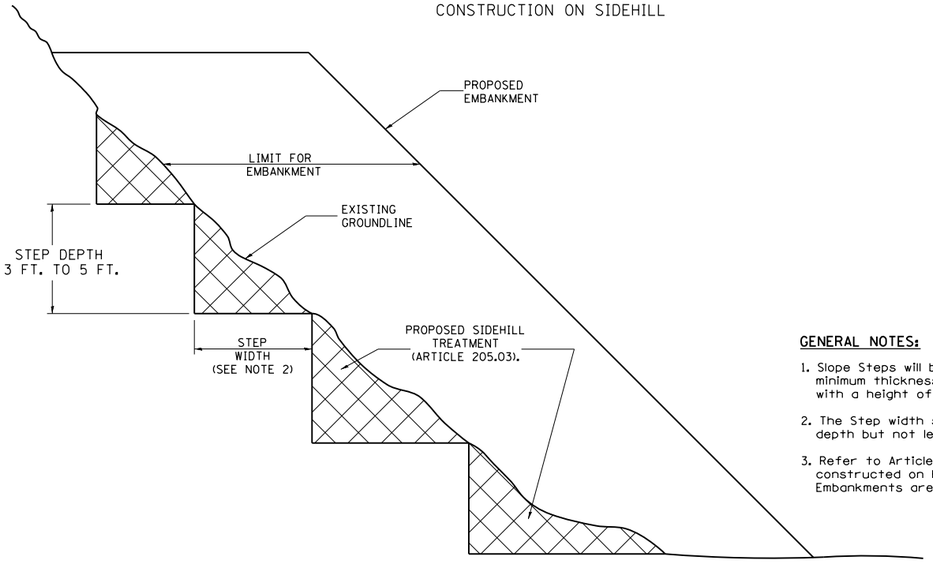
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1″ = 20′ | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	31
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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 all fills with a height of 10 feet or greater.
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.

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

REPLACEMENT MATERIAL:

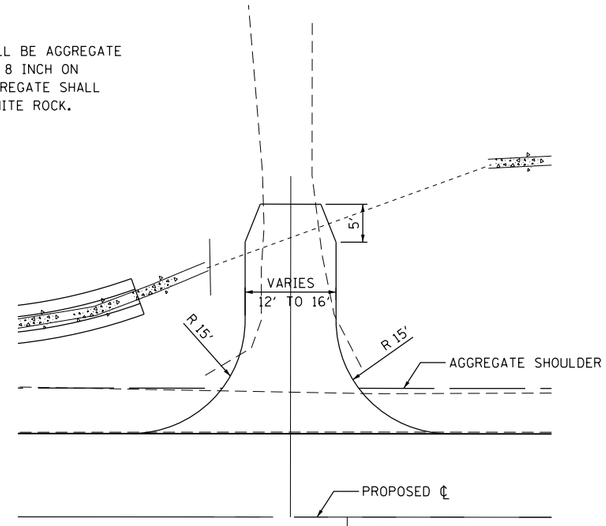
STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

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

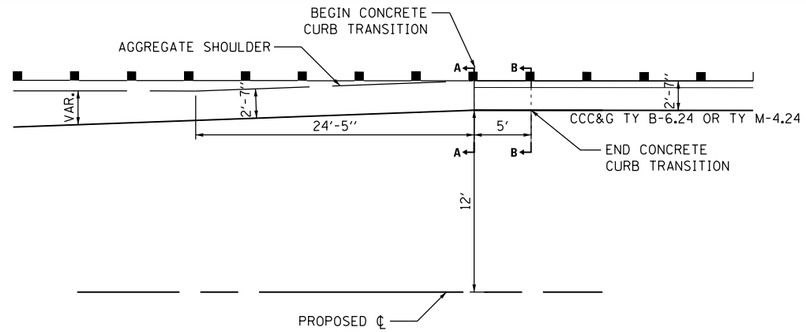
1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.								
5-30-18	MINOR CORRECTION	R.D.			NOT TO SCALE CADD STD. 205001-D4			CONTRACT NO.		
						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DISTRICT 4 STD. 205001-D4

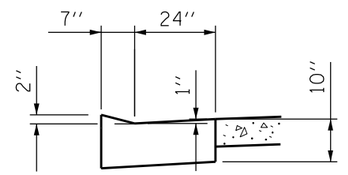
NOTES:
1. PROPOSED DRIVEWAYS SHALL BE AGGREGATE SURFACE COURSE, TYPE A, 8 INCH ON PREPARED SUBGRADE. AGGREGATE SHALL BE CRUSHED LIMESTONE WHITE ROCK.



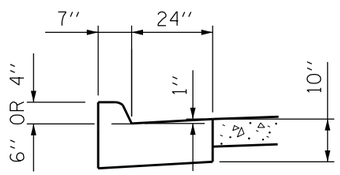
DRIVEWAY DETAIL



GUTTER TRANSITION LOCATIONS			
BEGINNING STATION	ENDING STATION	OFFSET	TRANSITIONS TO
96+47.02	96+52.02	LT	TY B-6.24
96+47.02	96+52.02	RT	TY B-6.24
98+96.37	98+91.37	RT	TY M-4.24

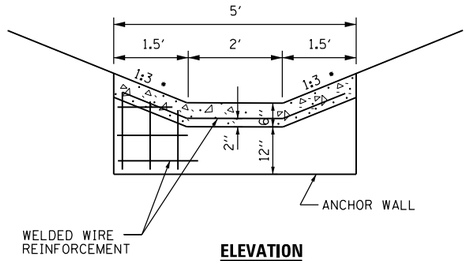


SECTION A–A



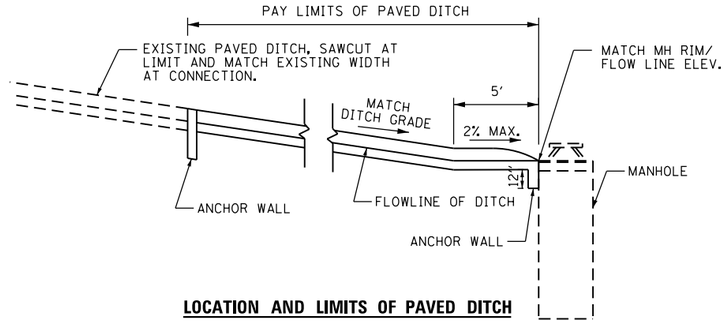
SECTION B–B

CONCRETE CURB TRANSITION DETAIL



ELEVATION

• 1:3 DESIRED, 1:2 MIN.



LOCATION AND LIMITS OF PAVED DITCH

NOTE:
A 1/2IN THICK PREFORMED JOINT FILLER SHALL BE PLACED AT THE JUNCTION OF PAVED DITCH WITH ANY OTHER STRUCTURE.

PAVED DITCH, TYPE A-15 DETAIL

DIRECTORY = L:\PCM\D1605010\0\Dsn\CADD_Sheets\...
USER NAME = Emily Munday

CMT
License No. 184-000613

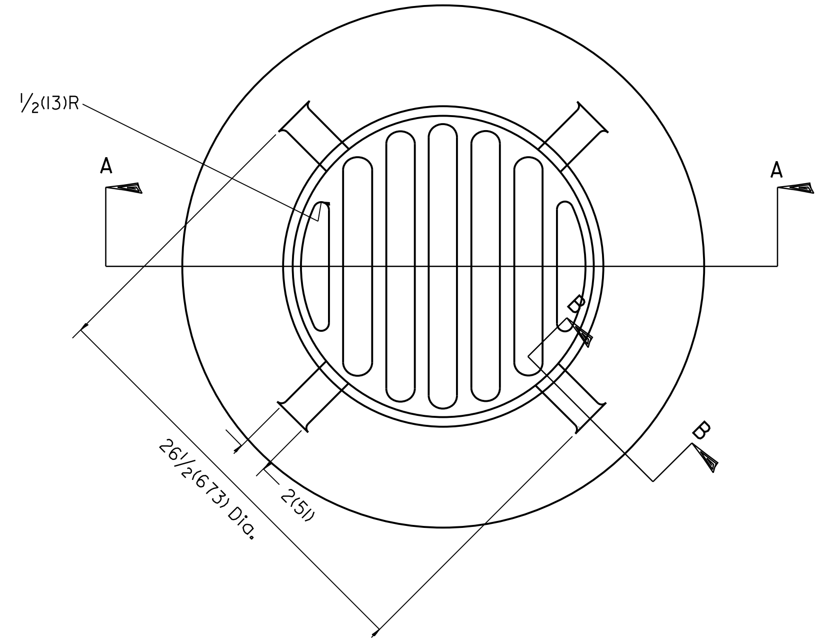
MODEL NAME = Sheet1	DESIGNED - LM/EM	REVISED -	
FILE NAME = Smithville_Details.dgn	DRAWN - EMM	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - EJH	REVISED -	
PLOT DATE = 8/22/2019 (3:49:59 PM)	DATE - AUGUST 2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

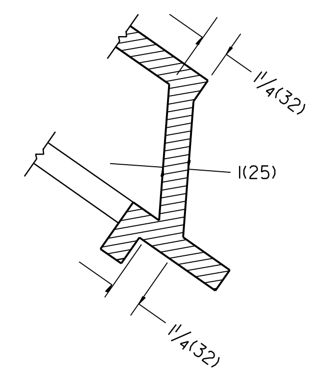
DETAILS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. | TO STA.

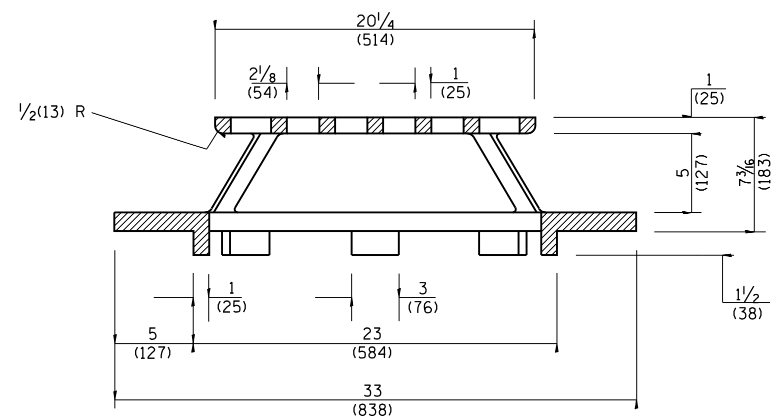
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	32
		CONTRACT NO. 89744		
	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION B - B



SECTION A - A

GENERAL NOTES

1. MATERIAL - Cast Gray Iron
   Weight 209 lbs (95 kg)

DESIGNER NOTE:
1. INCLUDE DISTRICT SPECIAL PROVISION.

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

01-01-97	RENUM. B-10.02, NEW REVISION BOX	T.P.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPE 37 GRATE

NOT TO SCALE

CADD STD. 604301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

DISTRICT 4 STD. 604301-D4

DIRECTORY = L:\PCHD\160530100\Draw\CADD_Sheets\...
USER NAME = Emily Munday

CMT

License No. 184-000613

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PLOT DATE = 8/22/2019 (3:49:59 PM)	DATE - AUGUST 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	33

CONTRACT NO. 89744

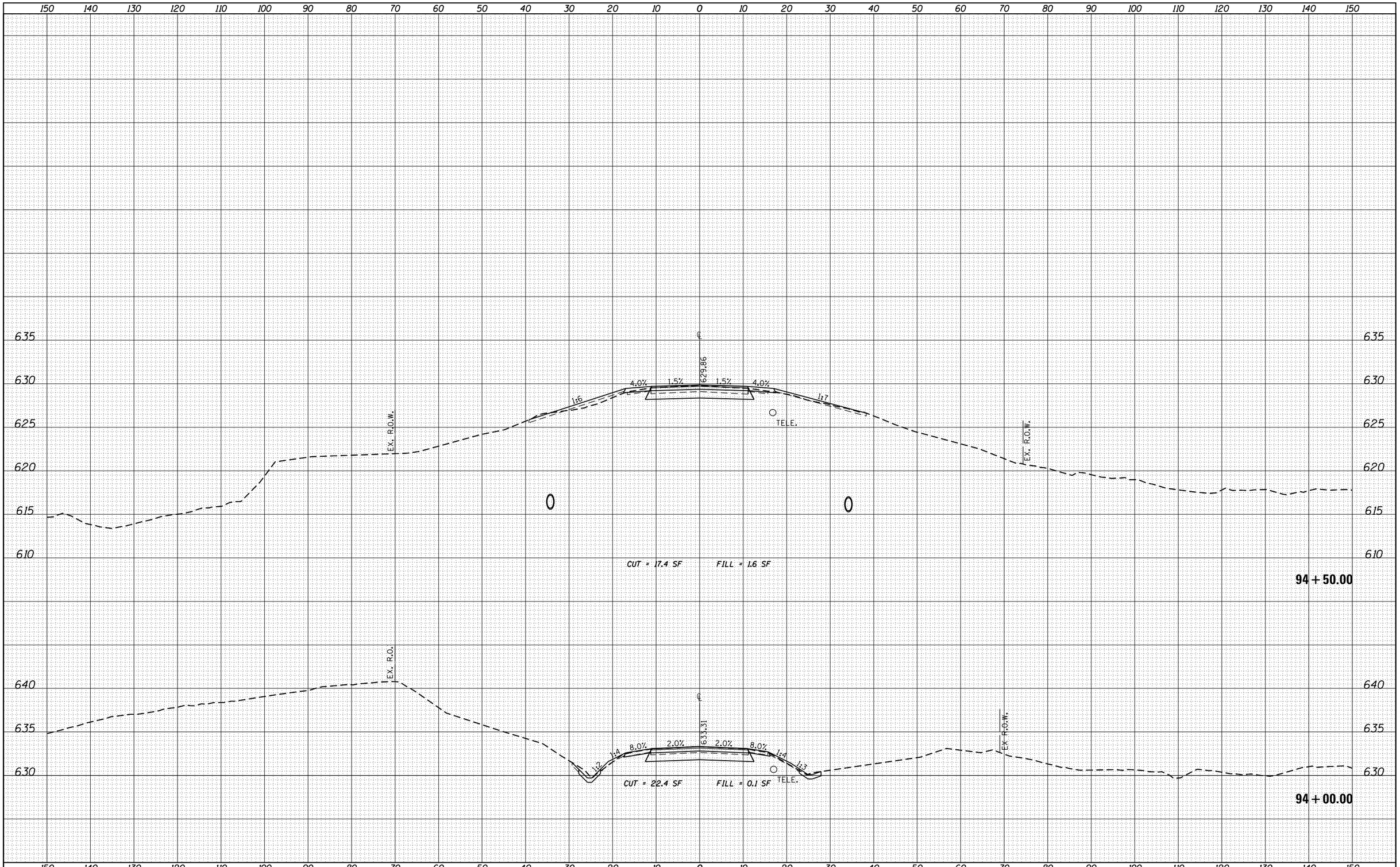
ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK	NO.

SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.

SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -	
	DRAWN - ECW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -	
PLOT DATE = 8/22/2019 (3:50:02 PM)	DATE - JUNE 2019	REVISED -	

CMT
License No. 184-000613

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 1 OF 13 SHEETS | STA. 94+00.00 TO STA. 94+50.00

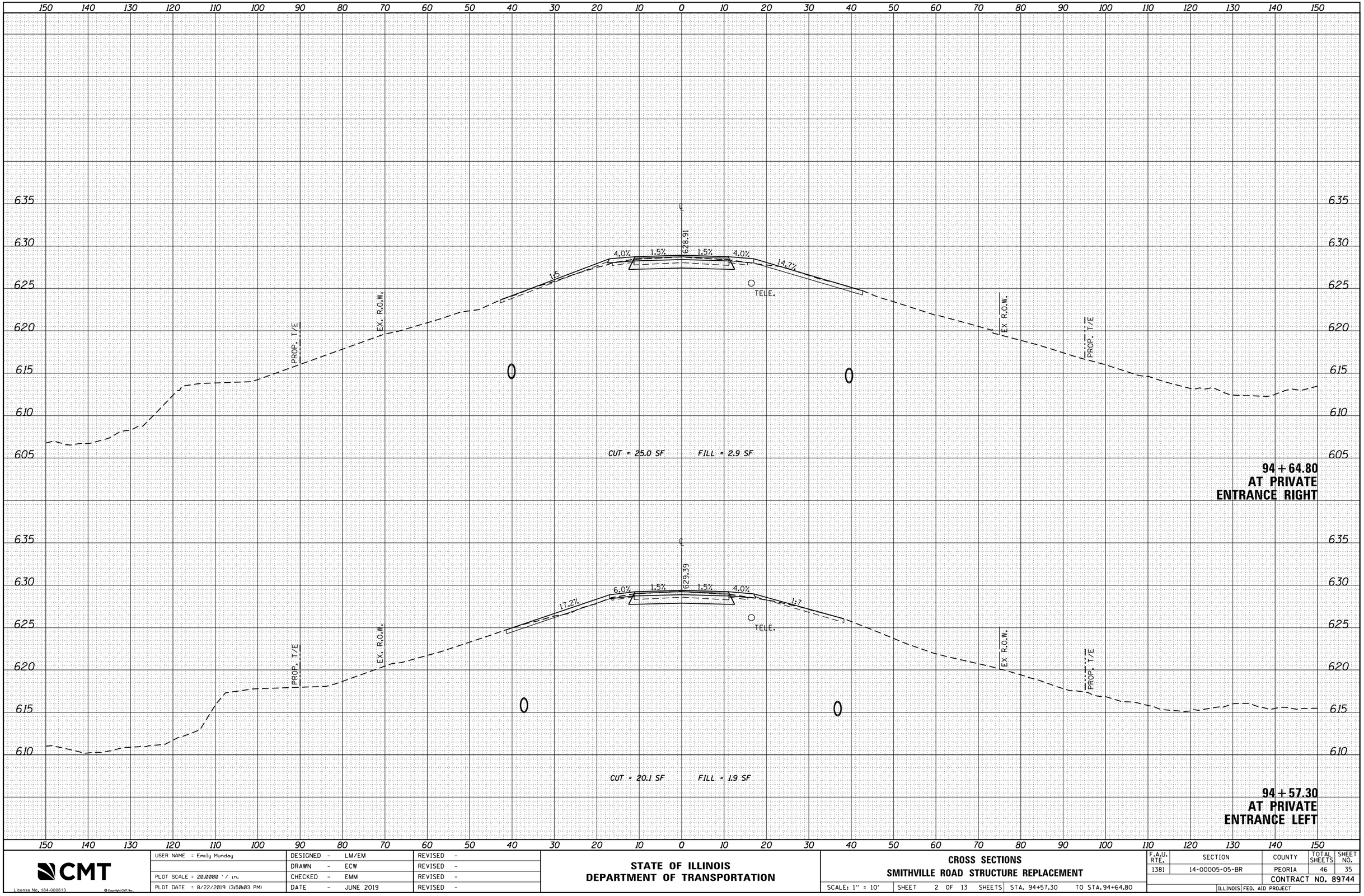
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	34
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE



CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
		DRAWN - ECW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
	PLOT DATE = 8/22/2019 (3:50:03 PM)	DATE - JUNE 2019	REVISED -

License No. 184-000613

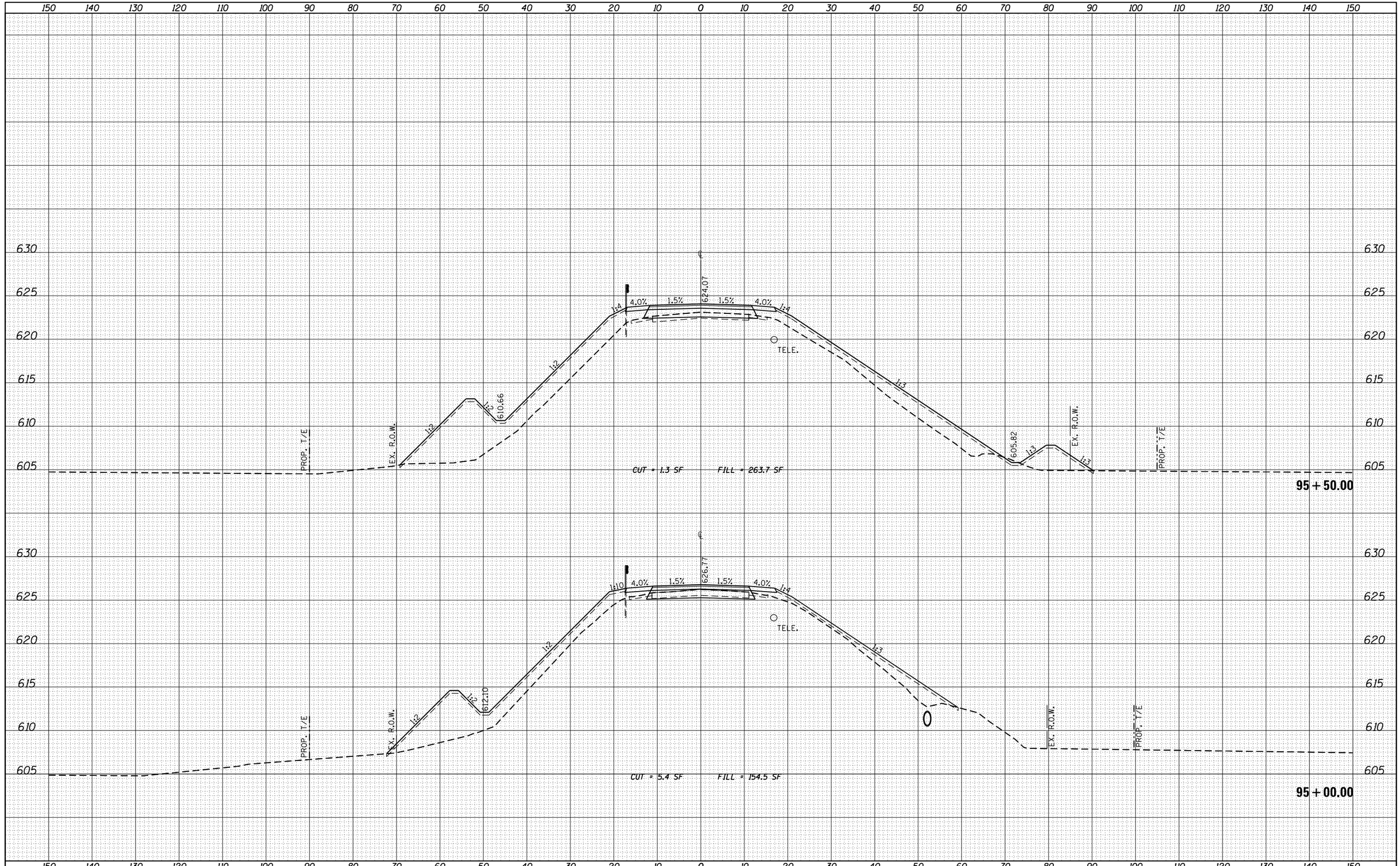
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 2 OF 13 SHEETS | STA. 94+57.30 TO STA. 94+64.80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	35
		CONTRACT NO. 89744		
		ILLINOIS	FED. AID PROJECT	

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



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

CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
		DRAWN - ECW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
License No. 184-000613	PLOT DATE = 8/22/2019 (3:50:03 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 3 OF 13 SHEETS | STA. 95+00.00 TO STA. 95+50.00

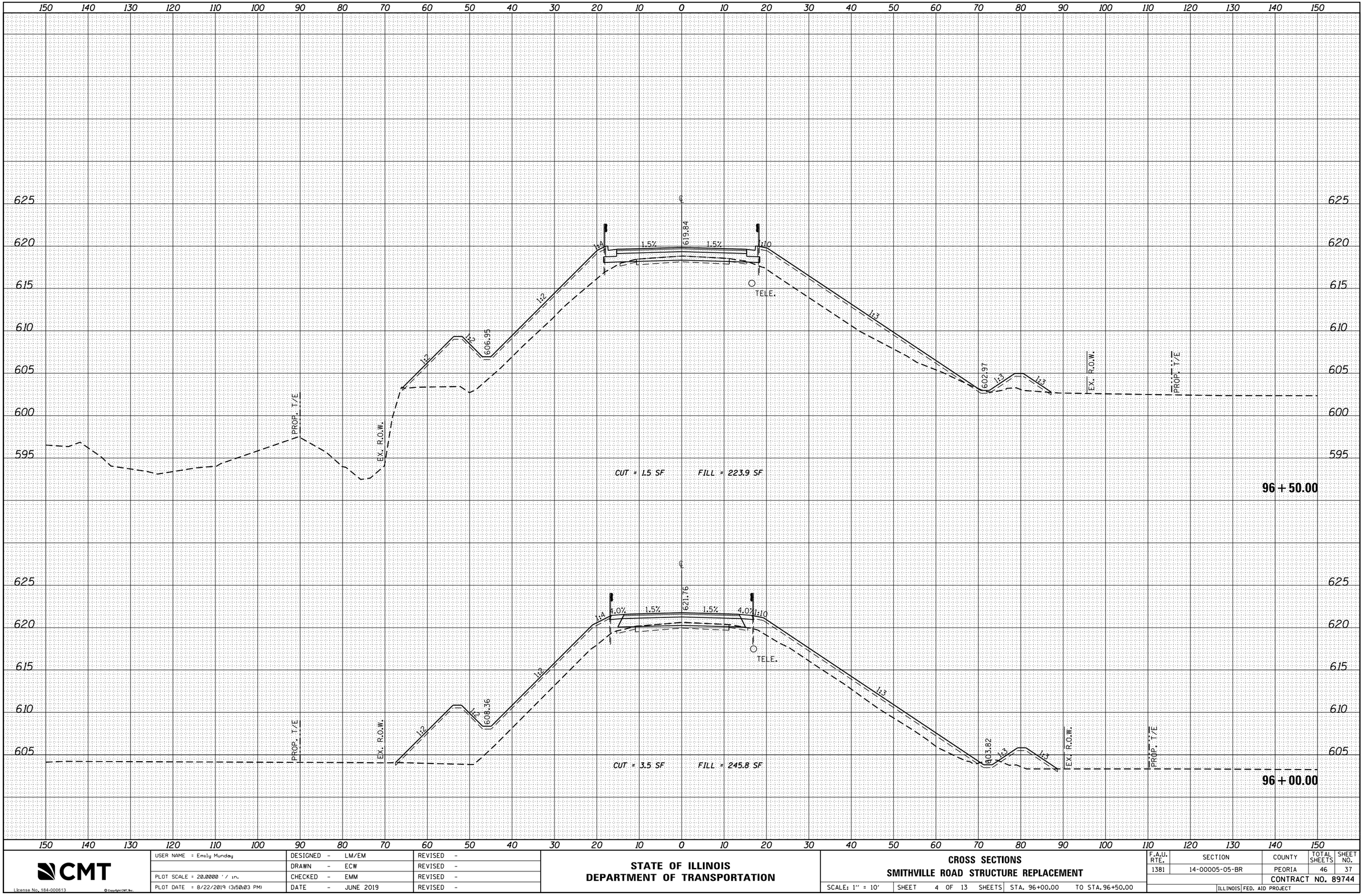
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	36
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE



USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -	
PLOT DATE = 8/22/2019 (3:50:03 PM)	DATE - JUNE 2019	REVISED -	

CMT

License No. 184-000613

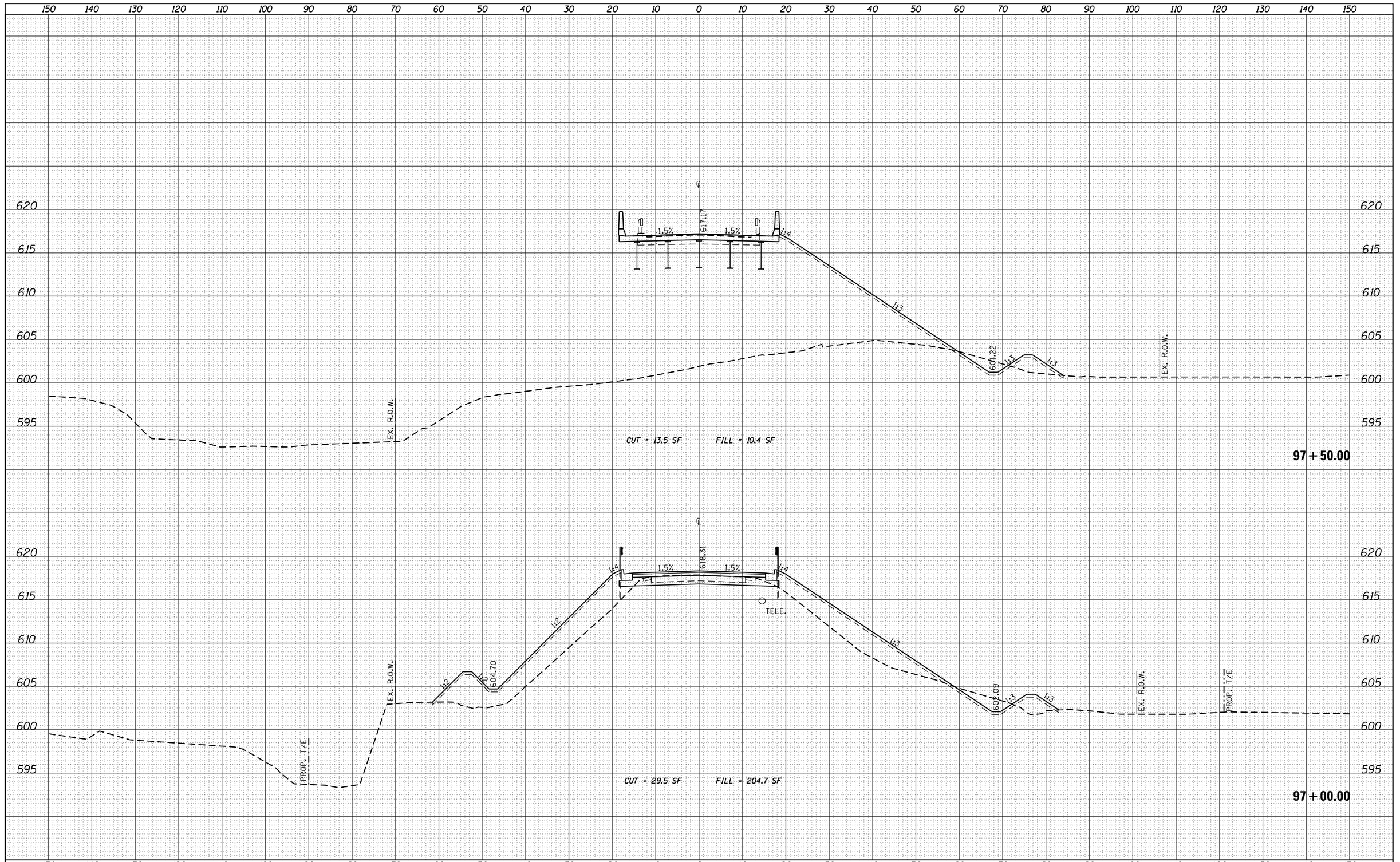
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 4 OF 13 SHEETS | STA. 96+00.00 TO STA. 96+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	37
		CONTRACT NO. 89744		
		ILLINOIS	FED. AID PROJECT	

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



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

CMT
License No. 184-000613

USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
	DRAWN - ECW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
PLOT DATE = 8/22/2019 (3:50:04 PM)	DATE - JUNE 2019	REVISED -

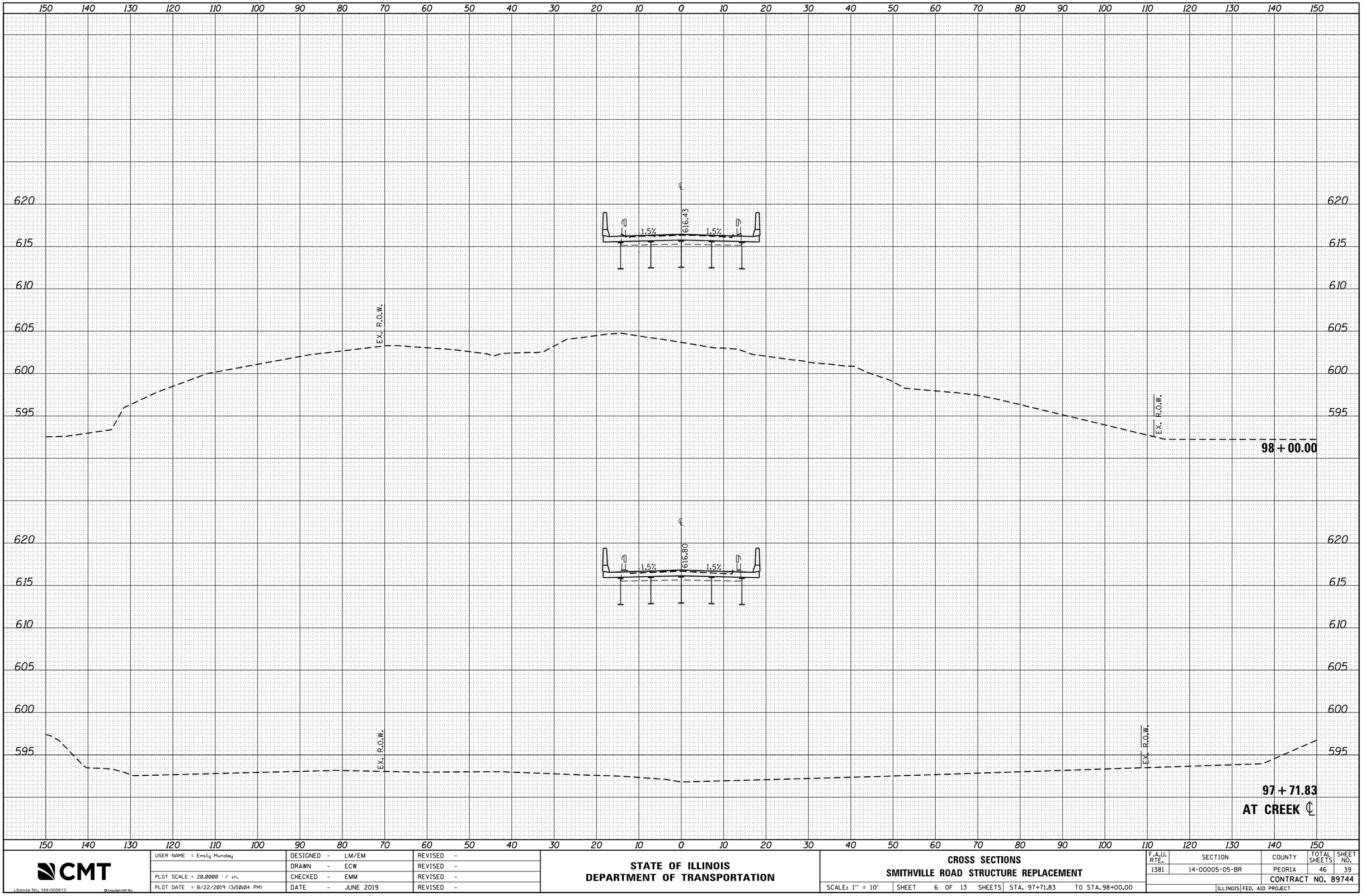
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 5 OF 13 SHEETS | STA. 97+00.00 | TO STA. 97+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	38
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		

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



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

CMT

License No. 184-000613

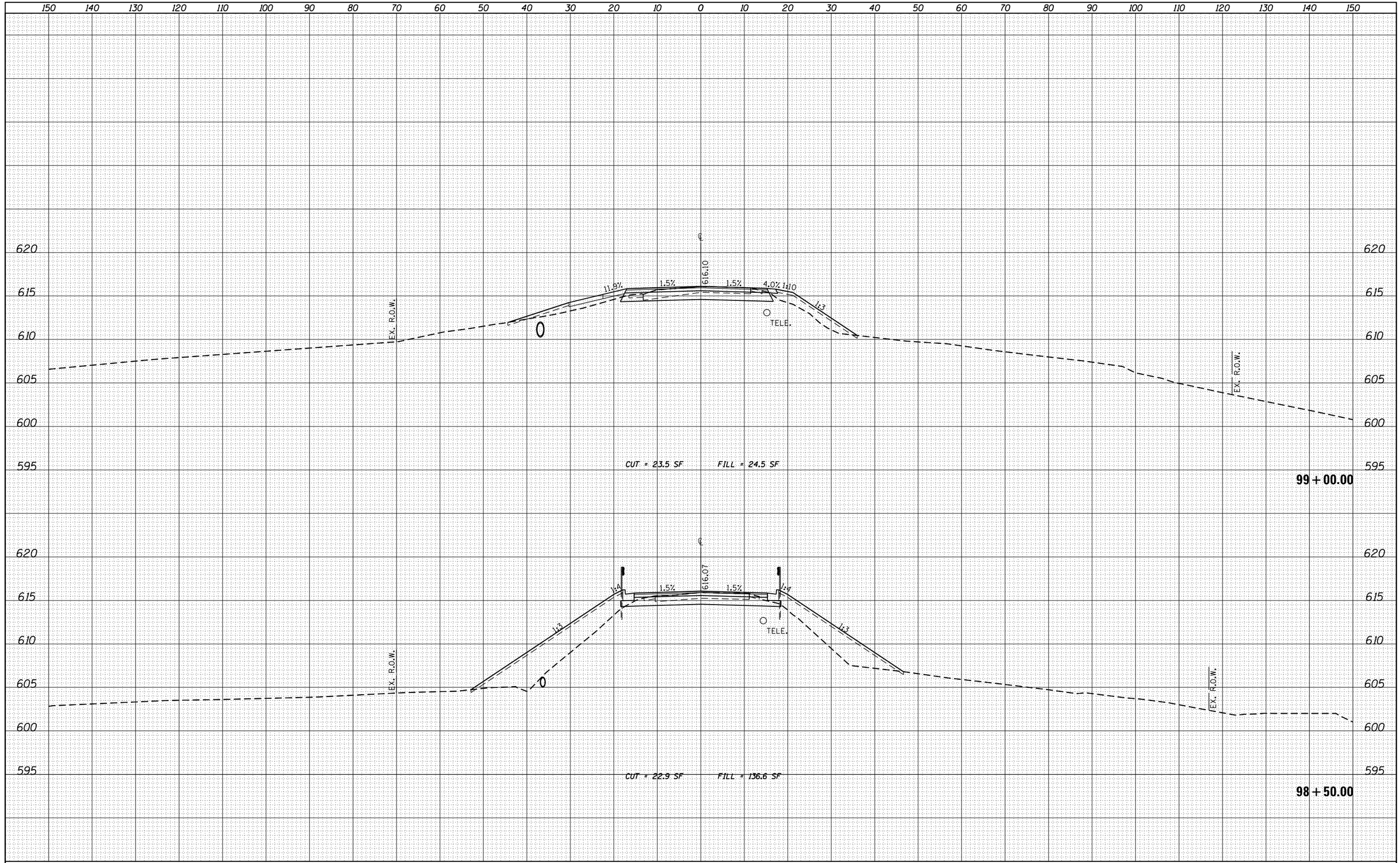
USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
	DRAWN - ECW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
PLOT DATE = 8/22/2019 (3:50:04 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 6 OF 13 SHEETS | STA. 97+71.83 | TO STA. 98+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	39
		CONTRACT NO. 89744		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

CMT

License No. 184-000613

USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -	
	DRAWN - ECW	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -	
PLOT DATE = 8/22/2019 (3:50:04 PM)	DATE - JUNE 2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 7 OF 13 SHEETS | STA. 98+50.00 TO STA. 99+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	40
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

620 615 610 605 600

EX. R.O.W.

1:2

612.50

1:1

1:4

4.0%

1.5%

616.52

℄

1.5%

4.0%

1:4

1:3

TELE.

EX. R.O.W.

CUT = 82.6 SF FILL = 4.2 SF

99+50.00

EX. R.O.W.

11.9%

1.5%

616.15

℄

1.5%

4.0%

1:10

1:3

TELE.

EX. R.O.W.

CUT = 27.8 SF FILL = 11.8 SF

99+10.19

AT PRIVATE ENTRANCE LEFT

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

CMT

License No. 184-000613

USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
	DRAWN - ECW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
PLOT DATE = 8/22/2019 (3:50:05 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

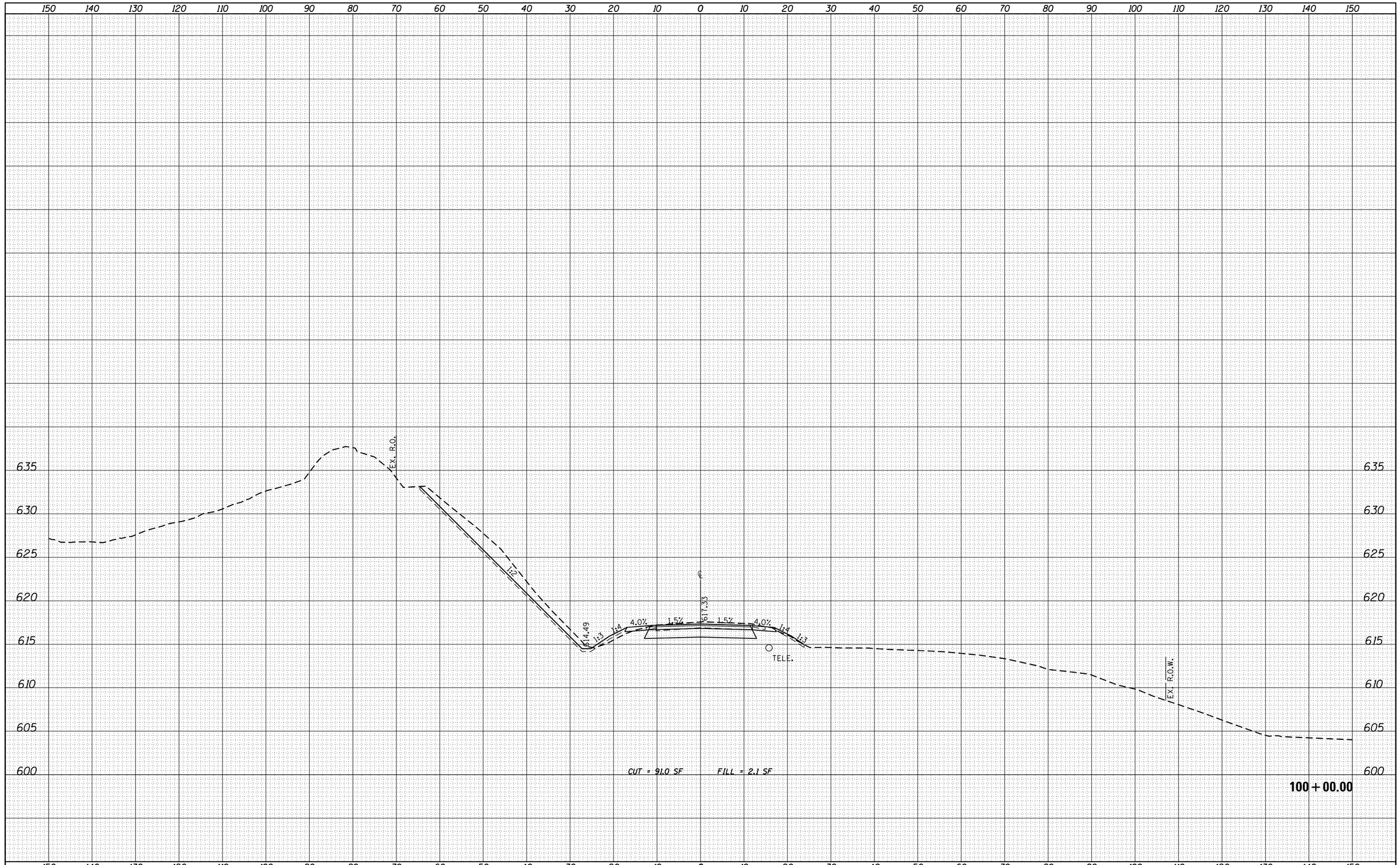
CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 8 OF 13 SHEETS | STA. 99+10.19 | TO STA. 99+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	41
		CONTRACT NO. 89744		
	ILLINOIS	FED. AID PROJECT		

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

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



CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
License No. 184-000613 © Copyright CMT, Inc.		DRAWN - ECW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
	PLOT DATE = 8/22/2019 (3:50:05 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

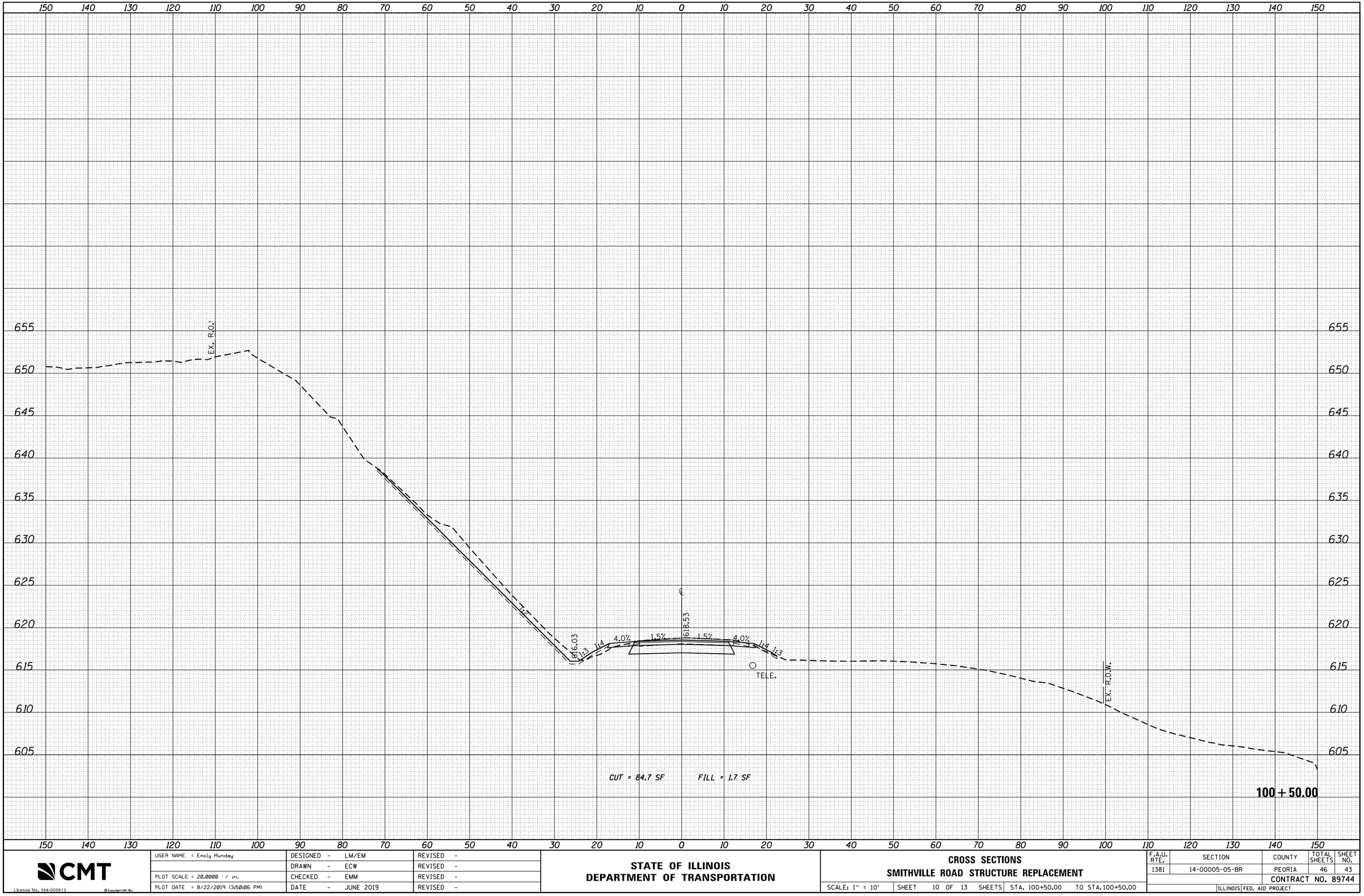
CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 9 OF 13 SHEETS | STA. 100+00.00 | TO STA.100+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	42
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

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



CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
License No. 184-000613		DRAWN - ECW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
	PLOT DATE = 8/22/2019 (3:50:06 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 10 OF 13 SHEETS | STA. 100+50.00 | TO STA. 100+50.00

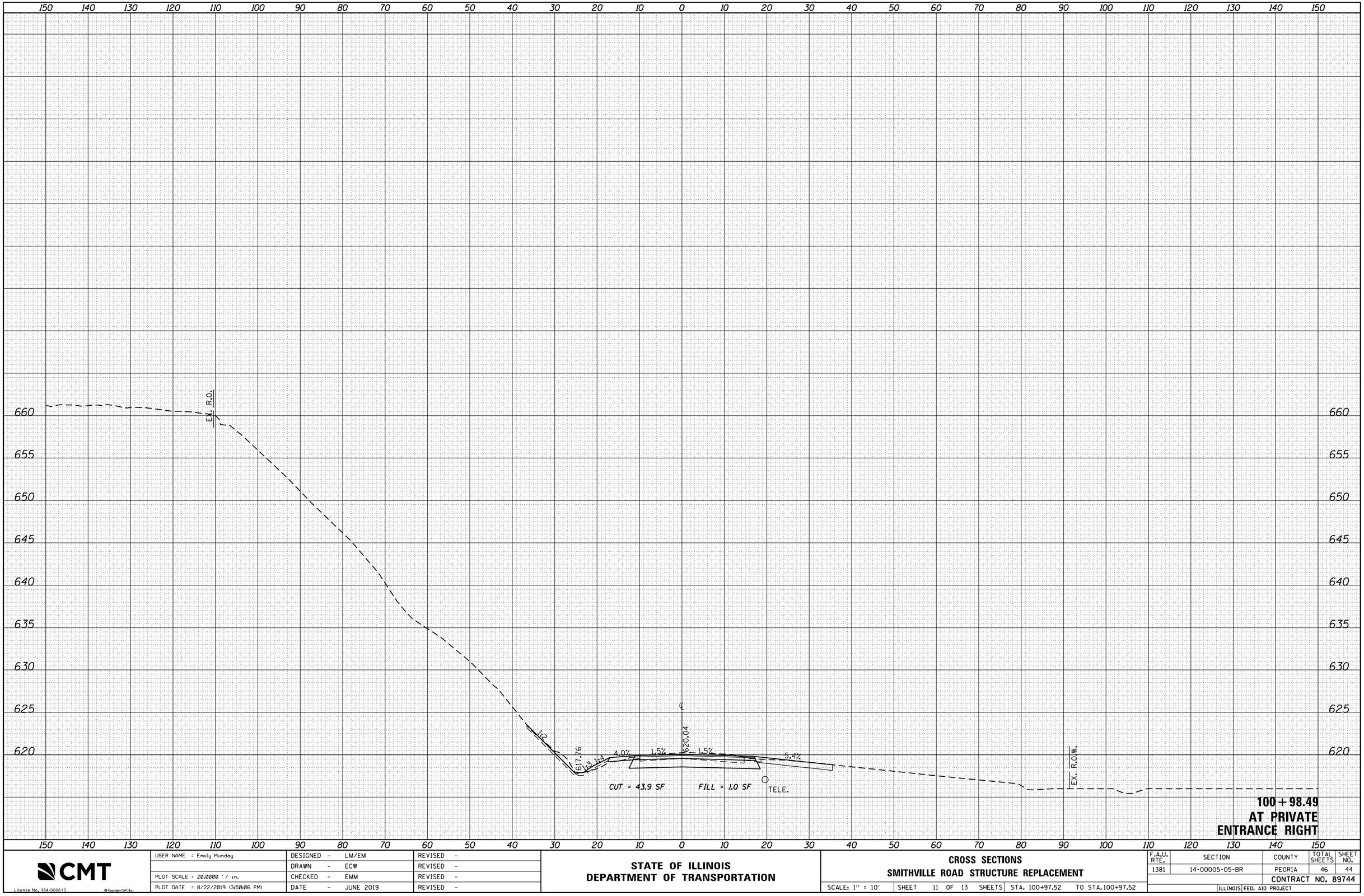
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	43
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE



100 + 98.49
AT PRIVATE
ENTRANCE RIGHT

CMT

License No. 184-000613

USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
	DRAWN - ECW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
PLOT DATE = 8/22/2019 (3:50:06 PM)	DATE - JUNE 2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 11 OF 13 SHEETS | STA. 100+97.52 TO STA. 100+97.52

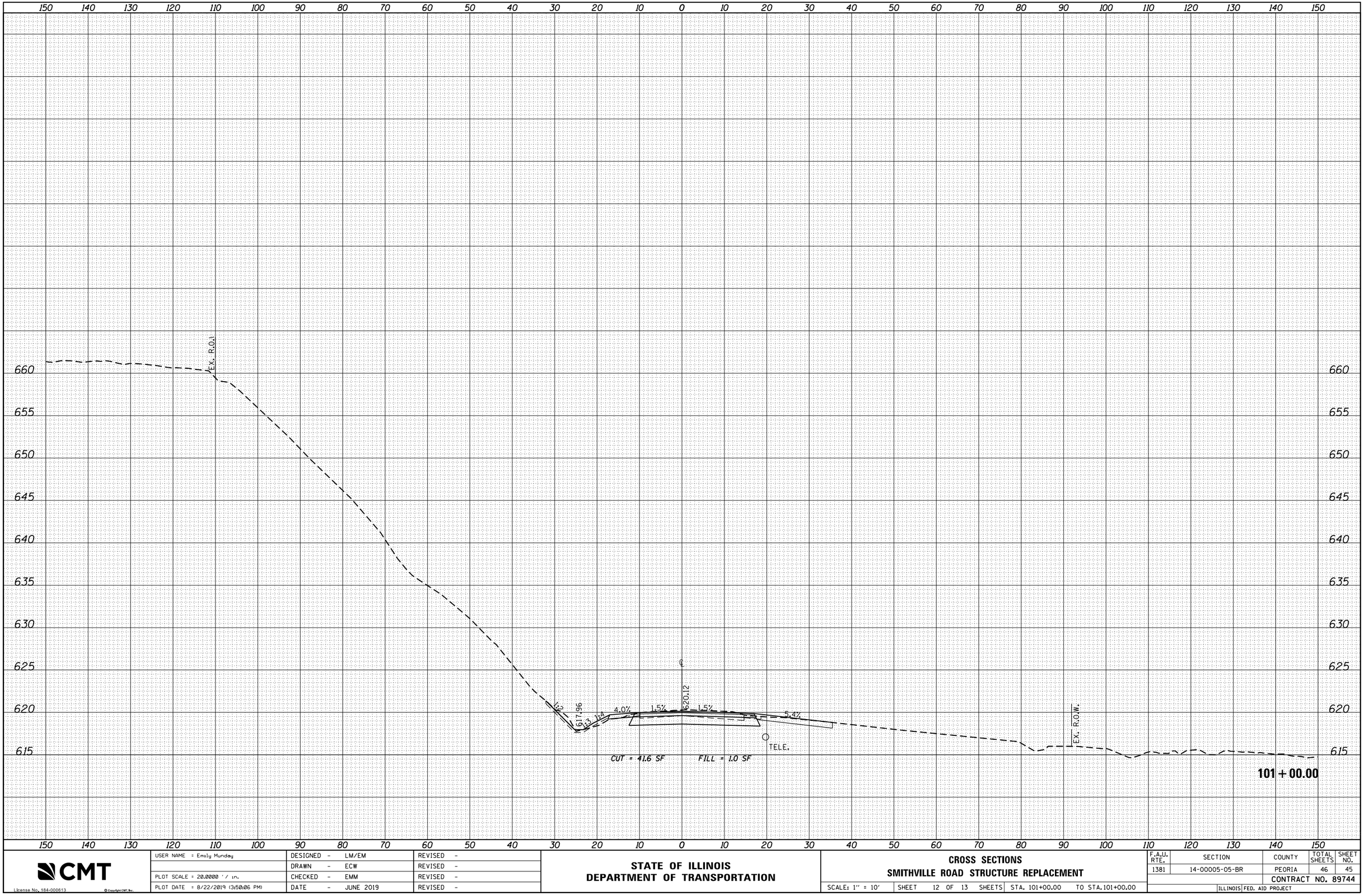
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	44
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -
		DRAWN - ECW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 12 OF 13 SHEETS | STA. 101+00.00 TO STA. 101+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	45
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			

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

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

CMT	USER NAME = Emily Munday	DESIGNED - LM/EM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
License No. 184-000613 © Copyright CMT, Inc.		DRAWN - ECW	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - EMM	REVISED -	
	PLOT DATE = 8/22/2019 (3:50:07 PM)	DATE - JUNE 2019	REVISED -	

CROSS SECTIONS
SMITHVILLE ROAD STRUCTURE REPLACEMENT

SCALE: 1" = 10' | SHEET 13 OF 13 SHEETS | STA. 101+50.00 | TO STA. 101+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	14-00005-05-BR	PEORIA	46	46
		CONTRACT NO. 89744		
	ILLINOIS FED. AID PROJECT			