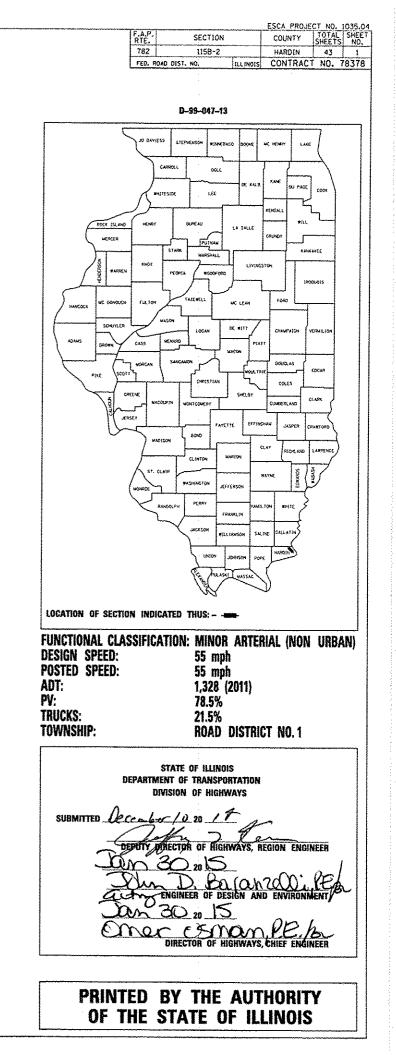


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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

	<u>STANDARD NO.</u>	DESCRIPTION
	000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
	001001-02	AREAS OF REINFORCEMENT BARS
	001006	DECIMAL OF AN INCH AND OF A FOOT
	280001-07	TEMPORARY EROSION CONTROL SYSTEMS
	420001-08	PAVEMENT JOINTS
-	420601-05	24' (7.2 m) PCC PAVEMENT
	420701-02	PAVEMENT FABRIC
	515001-03	NAME PLATE FOR BRIDGES
	630001-10	STEEL PLATE BEAM GUARDRAIL
	630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
-	630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
	631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
	635001-01	DELINEATORS
	635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
	635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
-	701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT
	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
	701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
-	701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
	701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
	701901-04	TRAFFIC CONTROL DEVICES
	704001-07	TEMPORARY CONCRETE BARRIER
	720001-01	SIGN PANEL MOUNTING DETAILS
-	720006-04	SIGN PANEL ERECTION DETAILS
	720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
	729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
	780001-05	TYPICAL PAVEMENT MARKINGS
	781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS. 1.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES. 2.
- TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE. 3.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. 4 DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED. 5.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THIS SHEET OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS. 6.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS: ON PAVEMENT INTERMEDIATE LIFTS (FOG COAT) ON AGGREGATE SURFACE AGGREGATE (PRIME COAT)	0.05 LB/S0 FT 0.025 LB/S0 FT 0.25 LB/S0 FT 0.0015 T0NS/S0 YD

- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS DECUMPER. REALBRED
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF 9. EARTH EXCAVATION.
- 10. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- 11. TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER EXCEPT AS DESCRIBED IN NOTE 12. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- 12. ALL OBSTRUCTIONS WHICH ARE WITHIN 30' OF THE CENTERLINE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 1032+36 TO 1038+50. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.

- CUARDRATE REMOVAL

COMMITMENTS

- 2.

HMA MIXTURES REQUIREMENTS

[1	[
LOCATION(S):	HMA SURFACING	LEVELING BINDER	BASE COURSE	HMA SHOULDERS
MIXTURE USE(S):	HMA SURFACE CSE, MIX C, N90	LEVELING BINDER (MM) N90	HMA BINDER CSE, N90, IL-19.0	HMA SHOULDERS
AC/PG GRADE:	PG64-22	PG64-22	PG64-22	PG58-22
RAP % (MAX.): ***	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS:				
MIXTURE COMPOSITION:	IL-9.5	IL-9.5	1L-19.0	HMA SHOULDERS
(GRADATION MIXTURE)			:	
FRICTION AGGREGATE:	C SURFACE	NONE	NONE	NONE

*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED AS DETERMINED BY THE ENGINEER.

EDGE



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	PLOT SCALE * 2.1667 ' / IN.	CHECKED -	JMS	REVISED -	DEPARTMENT OF TRANSPORTATION			•••••				CONTRACT NO	0. 78378
	PLOT DATE = 11/20/2014 10:02:19 AM	DATE -	11/14	REVISED -		SCALE	SHEET NO. 1 OF 1 SHEETS	i STA.	TO STA.	FED, ROAD DIST.	NO. ILLINOIS FED	AID PROJECT	

13. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, AND ONE ADDITIONAL APPLICATION.

14. EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS

15. FOR STABILIZATION, ALL TYPE 111 BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.

16. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

17. AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.

18. PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

19. RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

20. IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL BE PRIMED ACCORDING TO ARTICLE 406.02, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.

21. ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL OR HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.

1. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER DECEMBER 1, 2014.

DUE TO THE PRESENCE OF THE INDIANA BAT AND GRAY BAT, CLEARING OF TREES SHALL BE PROHIBITED FROM APRIL 1 THROUGH SEPTEMBER 30.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PREPARED BY:
EXAMINED BY:
EXAMINED BY: Carrie Helsen
EXAMINED BY: Cal Alexandree
EXAMINED BY:
EXAMINED BY:
EXAMINED BY: DISTRICT MATERIALS ENGINEER

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25100113 MULCH. METHOD 2 ACRE 0.50 0.50 25100630 EROSION CONTROL BLANKET S0 YD 2221 2221 28000250 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000400 PERIMETER EROSION BARRIER FOOT 1054 1054 28000400 PERIMETER EROSION BARRIER FOOT 1054 1054 28000400 FEINETER EROSION BARRIER S0 YD 353 353 28000400 FILTER FABRIC S0 YD 353 353	25000100	AGRICULIUNAL GROUND LIMESIONE	100	1. V				
25100630 EROSION CONTROL BLANKET S0 YD 2221 2221 28000250 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000260 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000260 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000200 PERIMETER EROSION BARRIER FOOT 1054 1054 28000200 STONE RIPRAP, CLASS A5 S0 YD 353 353 28200200 FILTER FABRIC S0 YD 353 353								
Ample Ample <th< td=""><td>25100115</td><td>MULCH, METHOD 2</td><td>ACRE</td><td>0.50</td><td>0, 50</td><td></td><td></td><td></td></th<>	25100115	MULCH, METHOD 2	ACRE	0.50	0, 50			
Ample Ample <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
28000250 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000200 PERIMETER EROSION BARRIER F00T 1054 1054 28100109 STONE RIPRAP, CLASS A5 SQ YD 353 353 28200200 FLITER FABRIC SQ YD 353 353	25100630	EROSION CONTROL BLANKET	SO YD	2221	2221			
28000250 TEMPORARY EROSION CONTROL SEEDING POUND 100 100 28000200 PERIMETER EROSION BARRIER F00T 1054 1054 28100109 STONE RIPRAP, CLASS A5 SQ YD 353 353 28200200 FLITER FABRIC SQ YD 353 353				1 1				
28100109 STONE RIPRAP. CLASS A5 S0 YD 353 353 28200200 FILTER FABRIC S0 YD 353 353	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100		:	
28100109 STONE RIPRAP. CLASS A5 S0 YD 353 353 28200200 FILTER FABRIC S0 YD 353 353								
28100109 STONE RIPRAP. CLASS A5 S0 YD 353 353 28200200 FILTER FABRIC S0 YD 353 353	28000400	PERIMETER FROSION BARRIER	FOOT	1054	1054			
28200200 FILTER FABRIC SO YD 353 353								
28200200 FILTER FABRIC SO YD 353 353				353	1	363		
	28100103	STUNE RIFNAR, LLASS AD	130 10				· · ·	
	28200200	FILTER FABRIC	SQ YD	353		353		
B SPECIALTY ITEM	SPECIAL		·····			. <u></u>	IF.A.P.I	COUNTY S

PROFERENCE LARGE A GAIN NA FAIL - INNE NACTOR MACLANAC - INNE NOCTOR MACLANAC - INTENDANCE FAL NAC - INTENDANCE ESCA \triangleleft

USER NAME = koh

55CA PROJECT NO. (035.04

PLOT SCALE = 0.1867 '/ IN. PLOT DATE = 11/24/2014

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				CONSTRUC	TION CODE	
	SUMMARY OF QUANTITIES			80% FEDERAL	80% FEDERAL	
	·			20% STATE	20% STATE	
CODE	ITEM	UNIT	TOTAL	ROADWAY 0004	BRIDGE 0011	•
NO.			QUANTITY	ROADWAY	S. N. 035-2005	
35650500	BASE COURSE WIDENING 10"	SQ YD	199	199		
				1		
		*****	-			
40000275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	972	972		
0000210	DIFURITIOUS INATERIALS FINIME COACT					
		17 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
			E 4	E 4	a a a a a a a a a a a a a a a a a a a	
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	54	54		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	174 -	174		
40600990	TEMPORARY RAMP	SQ YD	30	30		
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	125	125		
				[
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	608	608		
42001200	PAVEMENT FABRIC	SO YD	608	608		
			l A	× 144 1994		·
14000100	PAVEMENT REMOVAL	SQ YD	384	384		
 Change A V A 			to woodd from			
		SO YD	339	339		
+8203029	HOT-MIX ASPHALT SHOULDERS, 8"		333	5.5		
		oquinder / H Kris				
				1		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			
			at any formula			
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	159		159	
50800205	REINFORCEMENT BARS. EPOXY COATED	POUND	57480		57480	
						· · · · · · · · · · · · · · · · · · ·
50800515	BAR SPLICERS	EACH	390		390	
SPECIALT	Y ITEM	1				
INED - NHP	REVISED -					F.A. P. SECTION COUNTY
v - HAS	REVISED - STATE OF ILLINOIS	l l		SUMMARY OF O		1816.1

PEUNT DECKTR 1 FOLE & RANK MR 1424E - 1001 (F1982-118) MCDRL NAME - 1001 (N1982-118) FRIE NAME - 109780378-444-3448

ESCA

USER NAME = keh ESCA PROJECT NO. 1035.84 PLOT SCALE = 0.1667 / IN.	DESIGNED - NHP DRAWN - HAS CHECKED - JMS	REVISED - REVISE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF	QUAN
	DATE - 11/14	REVISED ~		SCALE SHEET NO	1. 2 OF 5 SHEE	rs st

						TION CODE		: :	
	5	JMMARY OF QUANTITIES			80% FEDERAL 20% STATE	80% FEDERAL 20% STATE			
CODE				TOTAL	ROADWAY	BRIDGE			
NO.		ITEM	UNIT	QUANTITY	0004	0011			
					ROADWAY	S. N. 035-2005			
50900200	STEEL RAILING, TYPE 2399		FOOT			111			
51500100	NAME PLATES		EACH						
54003000	CONCRETE BOX CULVERTS		CU YD	300.0		300.0			
63000001	STEEL PLATE BEAM GUARDRAIL, TY	PE A, 6 FOOT POSTS	FOOT	200	200				
63100087	TRAFFIC BARRIER TERMINAL, TYPE	6A	EACH	4	4				
63100167	TRAFFIC BARRIER TERMINAL, TYPE	1 (SPECIAL) TANGENT	EACH	4	4				
63200710	GUARDRAIL REMOVAL		FOOT	658	658				
00000000	CONCIMIE REMOVAL		ruui	030	000				
66600105	FURNISHING AND ERECTING RIGHT	OF WAY MARKERS	ЕАСН	12	12				
67000400	ENGINEER'S FIELD OFFICE, TYPE	Α	CAL MO	8	8				
67100100					4				
01100100	MOBILIZATION		L SUM		1				
70100405	TRAFFIC CONTROL AND PROTECTION	, STANDARD 701321	EACH	1	1				
				······					
70100450	TRAFFIC CONTROL AND PROTECTION	. STANDARD 701201	L SUM	ì	1				
70100500	TRAFFIC CONTROL AND PROTECTION	, STANDARD 701326	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE		CAL DA	6	6				
€ SPECIALT	L TY ITEM								
SIGNEQ - NHP	REVISED -	······································					F.A.P. RTE. SEC	TEON CO	



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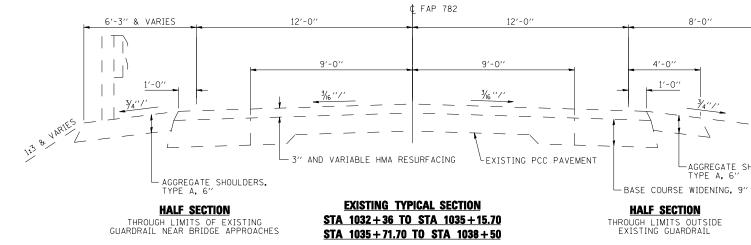
1					CONSTRUC	TION CODE		•	
		SUMMARY OF QUANTITIES			80% FEDERAL 20% STATE				
	conc			TOTAL	ROADWAY	BRIDGE			
	CODE NO.	ITEM	UNIT	QUANTITY	0004	0011			
					ROADWAY	S. N. 035-2005			
and a second									
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1				
								•	
						······································			
	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6				
vover									
	70105800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2				
	10100000	CHANGEAGLE MESSAGE STON			۷				
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	160	160				
								·	
avelage	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2263	2263				
Ì					<u>, 1997 (1997) (</u>	an game a finan Janif ka Anan Janif ka ka mana ka fa 20 A Janif Wali la Anan			
L Anno 1									
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	809	809			÷	
Î	70400100	TEMPORARY CONCRETE BARRIER	FOOT	425	425				
a thus								·	
Allow									
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425	425				
ſ									
-	70000050		5400						
	10600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2				
a luna	70600350	IMPACT ATTENUATORS, RELOCATE (NON~ REDIRECTIVE), TEST LEVEL 3	EACH	2	2			•	
1									
Of the second seco									
9	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2263	2263				
	70100100								
89 	00100181	RAISED REFLECTIVE PAVEMENT MARKER	ЕАСН	8	8				
			under man and a						
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10				
r									
	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				
14					5				
-	⊕ SPECIALT	V ITEN							
	SIGNED - NHP	Y I I EM					F.A P	-	
	AVIN - HAS	REVISED - STATE OF ILLINOIS			SUMMARY OF O	HANTITIES	F.A.P. RTE, 782	SECTION 1158-2	COUNTY HARDIN

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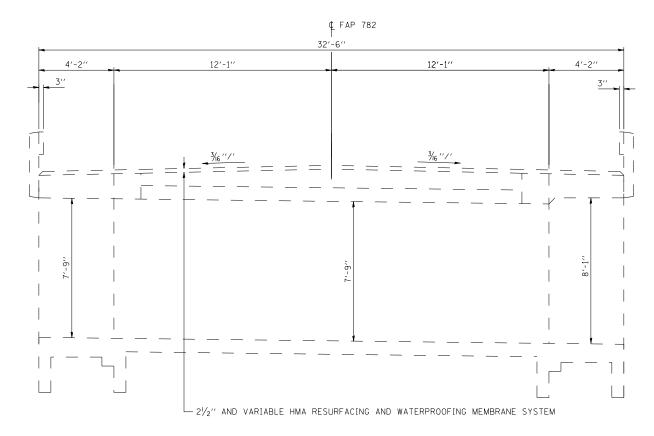
			SUMMARY OF QUANTITIES			80% FEDERAL	TION CODE 80% FEDERAL		
				1		20% STATE	20% STATE		
*****	CODE		7 - - - - - - - - - -		TOTAL	ROADWAY	BRIDGE		
ALC: LOCAL DATE	NO.		ITEM	UNIT	QUANTITY	0004	0011		
A	vi ti venio. W otroposte u					ROADWAY	S. N. 035-2005		
	78300100	PAVEMENT MARKING REMOVAL		SO FT	54 (541			
	78300200	RAISED REFLECTIVE PAVEMENT M	ARKER REMOVAL	EACH	8	8			
*	86200300	UNINTERRUPTABLE POWER SUPPLY	EXTENDED	EACH	1	1			
	X0323992	HELICAL GROUND ANCHORS		EACH	16		16		
	X0327726	MEMBRANE WATERPROOFING FOR C	JLVERTS	SQ YD	231		231		
	VELOLOGO	DEDUANENT CTEEL EVERT OF TO	·		1500		1600		
k	X5121800	PERMANENT STEEL SHEET PILING		SO FT	1589		1589		
	Z0054517	ROCK FILL - FOUNDATION		TON	241		241		
	Z0073002	TEMPORARY SOIL RETENTION SYS	SO FT	982		982			
(<	Z0073500	TEMPORARY SUPPORT SYSTEM		L SUM	1		1		
an manage and the state of the				Marca and a second a					
AND THE WORK POLICY AND ADDRESS									
VPRAIRON WHEN IN ADVAND									
11.071.0.000 man.04.040	of the second seco								
INCOLAR PRODUCTION AND									
Anna a anna an anna an an an an an an an									
	D SPECIALT	Y ITEM			·····		·	[F 4 9]	
0.000	UNCU - NHT	1 4617560 -		****				RTE. SECTION	
	NN - HAS	REVISED -	STATE OF ILLINOIS			SUMMARY OF Q	UANTITIES	782 1158-2	

FOR FORE 1 PD. R. O. N. FY FACE 101 (2007) FOR SACE 10100 MCCR. SACE 10100 FLE NG 1.07109 MAX-2004

-									
FSC	FSCA	USER NAME & Kon		DESIGNED	- NHP	REVISED -			
	, DEC	ESCA PROJECT NO. 1035.34		ORAWN	- HAS	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTI
< Y Y		PLOT SCALE . 2.1667 1/ IN.		CHECKED	- JMS	REVISED -	DEPARTMENT OF TRANSPORTATION		
		PLOT DATE = 11/28/2014	18183120 AM	DATE	- 11/14	REVISED -		SCALE	SHEET NO. 5 OF 5 SHEETS STA.



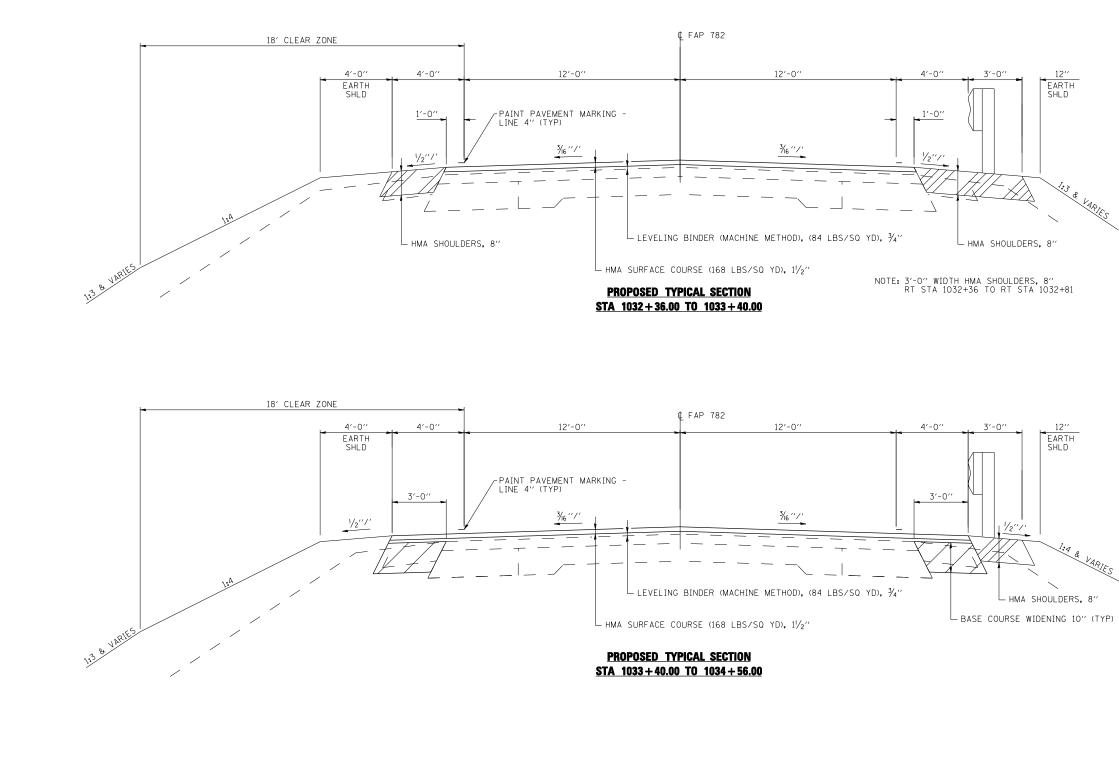
NOTE: EXISTING PCC PAVEMENT VARIES FROM 18' WIDTH TO 21' WIDTH STA 1034+00 TO 1035+15.70 AND STA 1035+71.70 TO 1036+57



EXISTING TYPICAL SECTION CENTERLINE OF STRUCTURE STA 1035+43.70

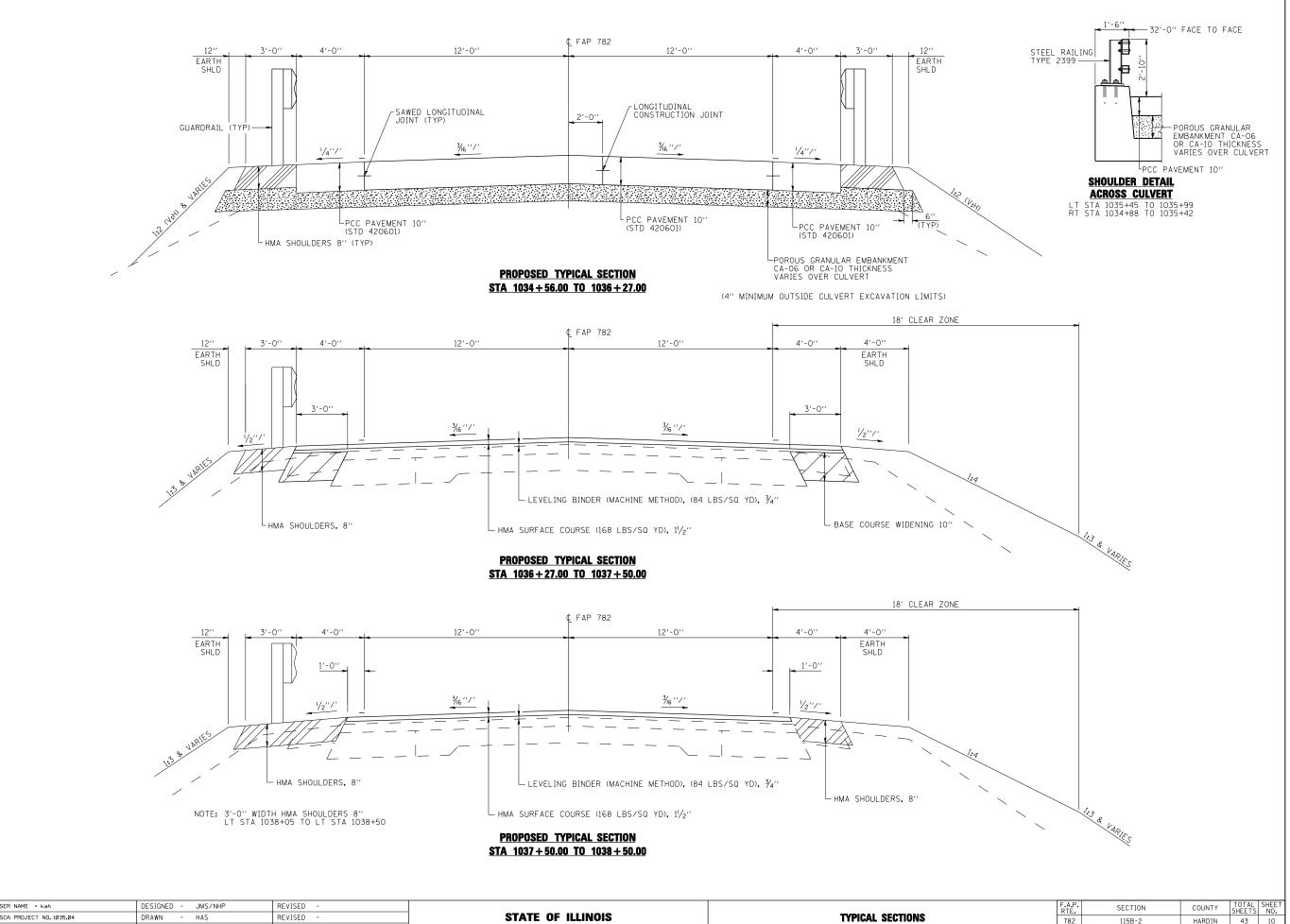
CONSULTANTS, INC.	USER NAME = kah	DESIGNED - JMS/NHP	REVISED -						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONSULTANTS, INC.	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		TYPICAL SECT			782	115B-2	HARDIN	43	8
	PLOT SCALE = 0.1667 // IN.	CHECKED - RDP	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT	NO. 78	378
	PLOT DATE = 11/20/2014	10:03:56 AM DATE - 04/14	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT		

VARIES AGGREGATE SHOULDERS, TYPE A, 6"



ESCA CONSULTANTA LINC.	USER NAME = kah	DESIGNED - JMS/NHP	REVISED -				F.A.P. RTE	SECTION	COUNTY TOTAL SHEE SHEETS NO	_T
	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		TYPICAL SECTIONS	782	115B-2	HARDIN 43 9	
	PLOT SCALE = 0.1667 '/ IN.	CHECKED - RDP	REVISED -	DEPARTMENT OF TRANSPORTATION			_		CONTRACT NO. 78378	,
	PLOT DATE = 11/20/2014	10:04:03 AM DATE - 04/14	REVISED -		SCALE:	SHEET NO. 2 OF 3 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	

VARIES



ESCA	USER NAME = kah	DESIGNED - JMS/NHP	REVISED -					F.A.P. RTF.	SECTION	COUNTY TOT	TAL SHEET
ESCA CONSULTANTS, INC.	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		TYPICAL SECTIONS		782	115B-2	HARDIN 43	43 10
	PLOT SCALE = 0.1667 '/ IN.	CHECKED - RDP	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO.	D. 78378
	PLOT DATE = 11/20/2014 10:0	04:10 AM DATE - 04/14	REVISED -		SCALE:	SHEET NO. 3 OF 3 SHEETS STA.	TO STA.	FED. ROAD DI	ST. NO. ILLINOIS FED. AI	ID PROJECT	
								1			

EARTHWORK SCHEDULE									
LOCATION	EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	RIPRAP EXCAVATION MATERIAL	SUITABLE RIPRAP EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)			
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD			
LT STA 1032+35 TO 1035+45	236	177			95	82			
RT STA 1032+35 TO 1035+00	18	13			12	1			
STA 1034+30 TO 1036+57	635	352	295	SEE NOTE 5		352			
LT STA 1036+00 TO 1038+51	20	15			19	- 4			
RT STA 1035+42 TO 1039+00	326	245			138	107			
TOTALS	1235	802	295		264	538			

NOTES:

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EXCAVATION)*0.75

2. RIPRAP EXCAVATION IS NOT A PAY ITEM AND IT IS INCLUDED IN THE COST OF STONE RIPRAP CLASS A5.

3. THE EARTHWORK SCHEDULE DOES NOT REFLECT THE EARTHWORK AND EARTHWORK BALANCE FOR THE VARIOUS STAGES.

4. THE EARTHWORK SCHEDULE HAS ASSUMED THAT 165 CU YD OF EARTH EXCAVATION FROM STA 1034+30 TO STA 1036+57 MAY NOT BE SUITABLE FOR USE AS EMBANKMENT.

5. THE EARTHWORK SCHEDULE HAS ASSUMED THE RIPRAP EXCAVATION MAY NOT BE SUITABLE FOR USE AS EMBANKMENT.

6. EXCAVATION FOR CONCRETE BOX CULVERTS WILL NOT BE PAID FOR AS A SEPARATE ITEM IN ACCORDANCE WITH ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS. THE EARTHWORK SCHEDULE DOES REFLECT EXCAVATION NEEDED FOR POROUS GRANULAR EMBANKMENT AND CHANNEL EXCAVATION NEEDED WITHIN THE RIGHT-OF-WAY.

EROSION (CONTROL SCHE	DULE	
LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET
	POUND	FOOT	SQ YD
NE QUADRANT		306	796
NW QUADRANT		206	154
SW QUADRANT		346	1141
SE QUADRANT		196	130
JOBSITE	100		
TOTALS	100	1054	2221

		SEED	ING SCH	EDULE			
LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICUL TURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
NE QUADRANT	0.17	0.17	15	15	15	0.3	0.17
NW QUADRANT	0.04	0.04	4	4	4	0.1	0.04
SW QUADRANT	0.26	0.26	23	23	23	0.5	0.26
SE QUADRANT	0.03	0.03	3	3	3	0.1	0.03
TOTALS	0.50	0.50	45	45	45	1.0	0.50

REMOVAL SC	HEDULE	
LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT
	SQ YD	SQ YD
STA 1032+36 TO 1032+66		87
STA 1034+56 TO 1035+43.41	213	
STA 1035+43.91 TO 1036+27	171	
STA 1038+20 TO 1038+50		87
TOTALS	384	174

PCC PAVEMENT	SCHEDULE	
LOCATION	PCC PAVEMENT 10'' (STD 420601)	PAVEMENT FABRIC
	SQ YD	SQ YD
STA 1034+56 TO 1036+27	608	608
TOTALS	608	608

F&E ROW MARKERS	SCHEDULE
LOCATION	F&E ROW MARKERS
	EACH
STA 1034+00, 40' LT	1
STA 1034+00, 57′ LT	1
STA 1034+50, 40′ RT	1
STA 1034+50, 50' RT	1
STA 1035+00, 50' RT	1
STA 1035+00, 60' RT	1
STA 1036+50, 40' LT	1
STA 1036+50, 57′ LT	1
STA 1036+50, 50' RT	1
STA 1036+50, 60' RT	1
STA 1039+00, 40' RT	1
STA 1039+00, 50' RT	1
TOTAL	12

	PAVEMENT MARKING SCHEI	DULE		
LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING (1)	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE
			4''	4''
		FOOT	FOOT	FOOT
CL STA 1031+44 TO 1039+39	YELLOW SKIP-DASH	160	200	200
CL STA 1031+44 TO 1039+39	YELLOW CENTER		795	795
RT STA 1032+26 TO 1038+60	WHITE EDGE		634	634
LT STA 1032+26 TO 1038+60	WHITE EDGE		634	634
	TOTALS	5 160	2263	2263

1 INCLUDES 2 APPLICATIONS

RAISED REFLECTIVE PAVEMENT	MARKER	SCHEDULE	WORK
LOCATION	RRPM	RRPM REMOVAL	
	EACH	EACH	
STA 1032+36 TO 1038+50	8	8	CL STA 10
			CL STA 10
			CL STA 10
TOTALS	8	8	RT STA 10
			LT STA 1C
			RT STA 10
			1 T GT1 (0

HMA SHOULDERS, 8''

SQ YD

103

69

66

101

339

FOOT

115

215

114

214

658

TOTAL

TOTAL

LT STA :

BASE COURSE WIDENING 10"	SCHEDULE
LOCATION	BASE COURSE WIDENING 10''
	SQ YD
LT STA 1033+40 TO 1035+43.41	67
LT STA 1035+94.21 TO 1037+50	52
RT STA 1033+40 TO 1034+56	39
RT STA 1036+27 TO 1037+50	41
TOTAL	. 199

HMA SHOULDERS, 8" SCHEDULE

GUARDRAIL REMOVAL SCHEDULE

LOCATION

RT STA 1032+36 TO 1034+87.98

LT STA 1032+36 TO 1035+43.41

RT STA 1035+43.98 TO 1038+50

LT STA 1035+99.41 TO 1038+50

LOCATION

STRUCTURE NO. 035-2000 NE

STRUCTURE NO. 035-2000 NW

STRUCTURE NO. 035-2000 SW

STRUCTURE NO. 035-2000 SE

	PAV	ING SCHEI	DULE		
LOCATION	LEVELING BINDER (MM), N90	HMA SURFACE COURSE, MIX "C", N90	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	TEMPORARY RAMP
	TON	TON	POUND	TON	SQ YD
STA 1032+36 TO 1032+41					15
STA 1032+36 TO 1034+56		62	482	1.5	
STA 1032+81 TO 1034+56	27				
STA 1036+27 TO 1038+05	27				
STA 1036+27 TO 1038+50		63	490	1.5	
STA 1038+45 TO 1038+50					15
TOTALS	54	125	972	3	30

④ INCLUDED FOR INFORMATION ONLY; NOT A PAY ITEM

GUARDRAIL SCHEDULE										
	SPBGR, TYPE A,	BAR	FFIC RIER /INAL	GUARDRAIL MARKERS,	TERMINAL MARKER -					
LOCATION	6 FOOT POSTS			TYPE A	DIRECT APPLIED					
	FOOT	EACH	EACH	EACH	EACH					
NE QUADRANT		1	1		1					
NW QUADRANT	100	1	1		1					
SW QUADRANT		1	1		1					
SE QUADRANT	100	1	1		1					
RT STA 1032+87 TO 1036+38				5						
LT STA 1034+49 TO 1037+99				5						
TOTAL	_S 200	4	4	10	4					

GL	JARDRAIL S	SCHEDU	LE		
	SPBGR, Type A,	BAR	FFIC RIER /INAL	GUARDRAIL MARKERS,	TERMINAL MARKER -
LOCATION	6 FOOT POSTS	TYPE 6A	TYPE 1 (SPECIAL) TANGENT	ΤΥΡΕ Α	DIRECT APPLIED
	FOOT	EACH	EACH	EACH	EACH
NE QUADRANT		1	1		1
NW QUADRANT	100	1	1		1
SW QUADRANT		1	1		1
SE QUADRANT	100	1	1		1
RT STA 1032+87 TO 1036+38				5	
LT STA 1034+49 TO 1037+99				5	
TOTALS	200	4	4	10	4

USER NAME = kah	DESIGNED - NHP	REVISED -			
ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUA
PLOT SCALE = 0.1667 '/ IN.	CHECKED - JMS/ELH	REVISED -	DEPARTMENT OF TRANSPORTATION		
PLOT DATE = 11/20/2014 3:55:15 PM	DATE - 11/14	REVISED -		SCALE	SHEET NO. 1 OF 1 SHEETS

1.PD_E_B_0.p 1001_VER02.1 PLOT 0978378-44* DRIVER

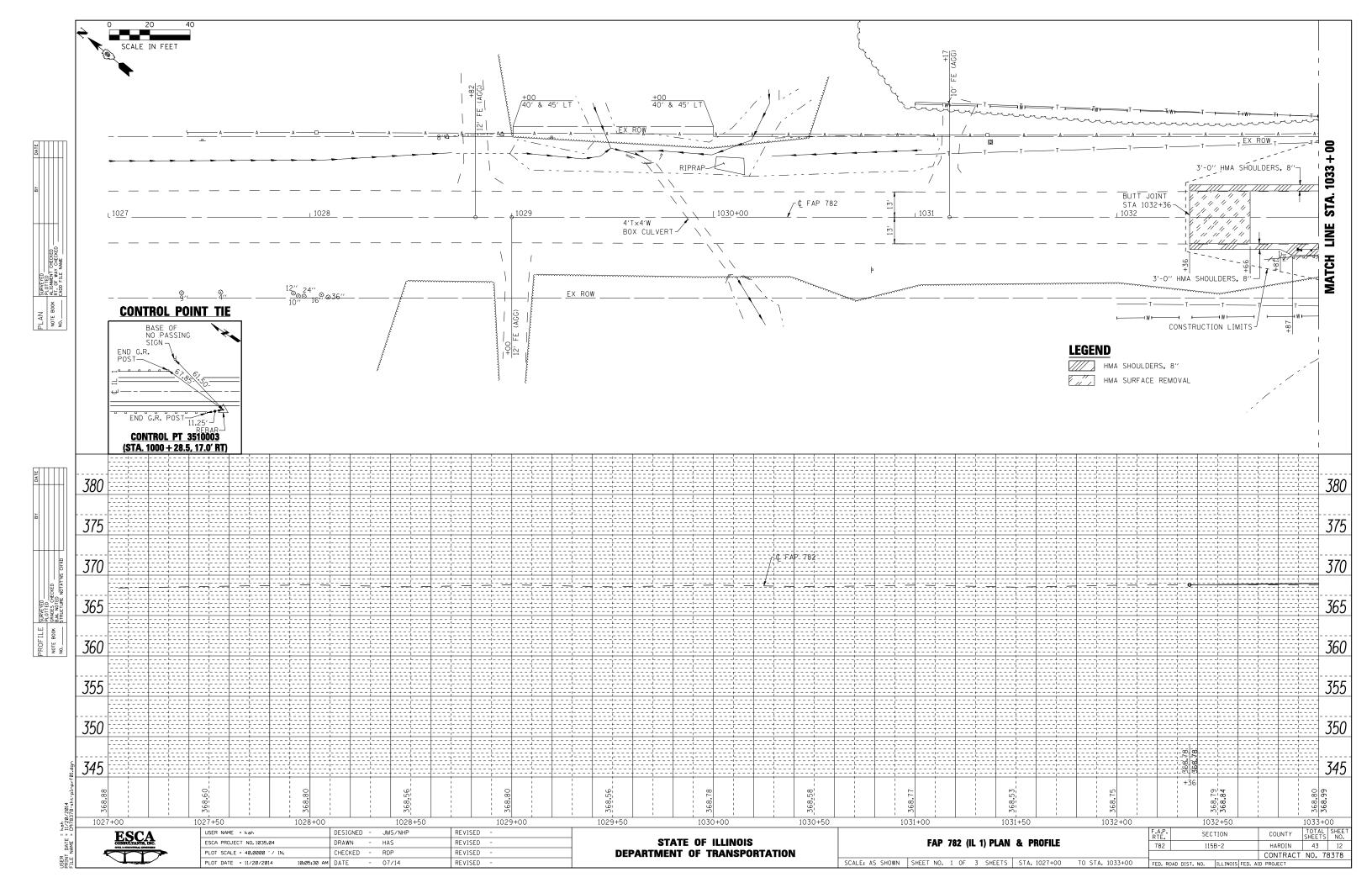
ESC

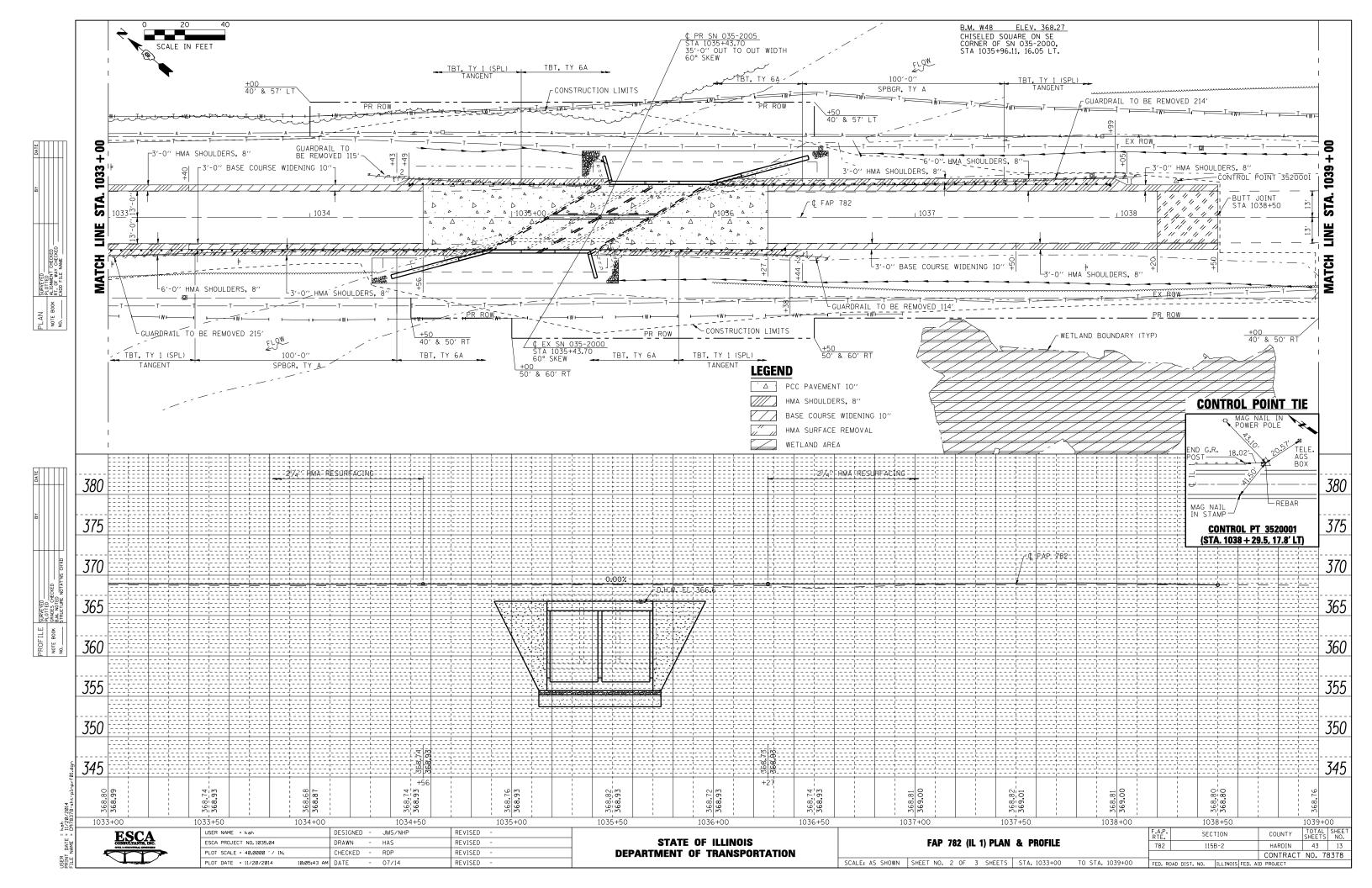
ZONE AND PAVEME	NT MARKING	REMOVAL	SCHEDULE
LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
1031+44 TO 1039+39	YELLOW SKIP-DASH	53 ②	67
1031+44 TO 1039+39	YELLOW SKIP-DASH	67 3	
1031+44 TO 1039+39	YELLOW CENTER	265 (3)	265
1032+26 TO 1038+60	WHITE EDGE	212 3	
1032+26 TO 1038+60	WHITE EDGE	212 (3)	
1033+43 TO 1037+40	WHITE EDGE		76
1033+43 TO 1037+40	WHITE EDGE		133
	TOTALS	809	541

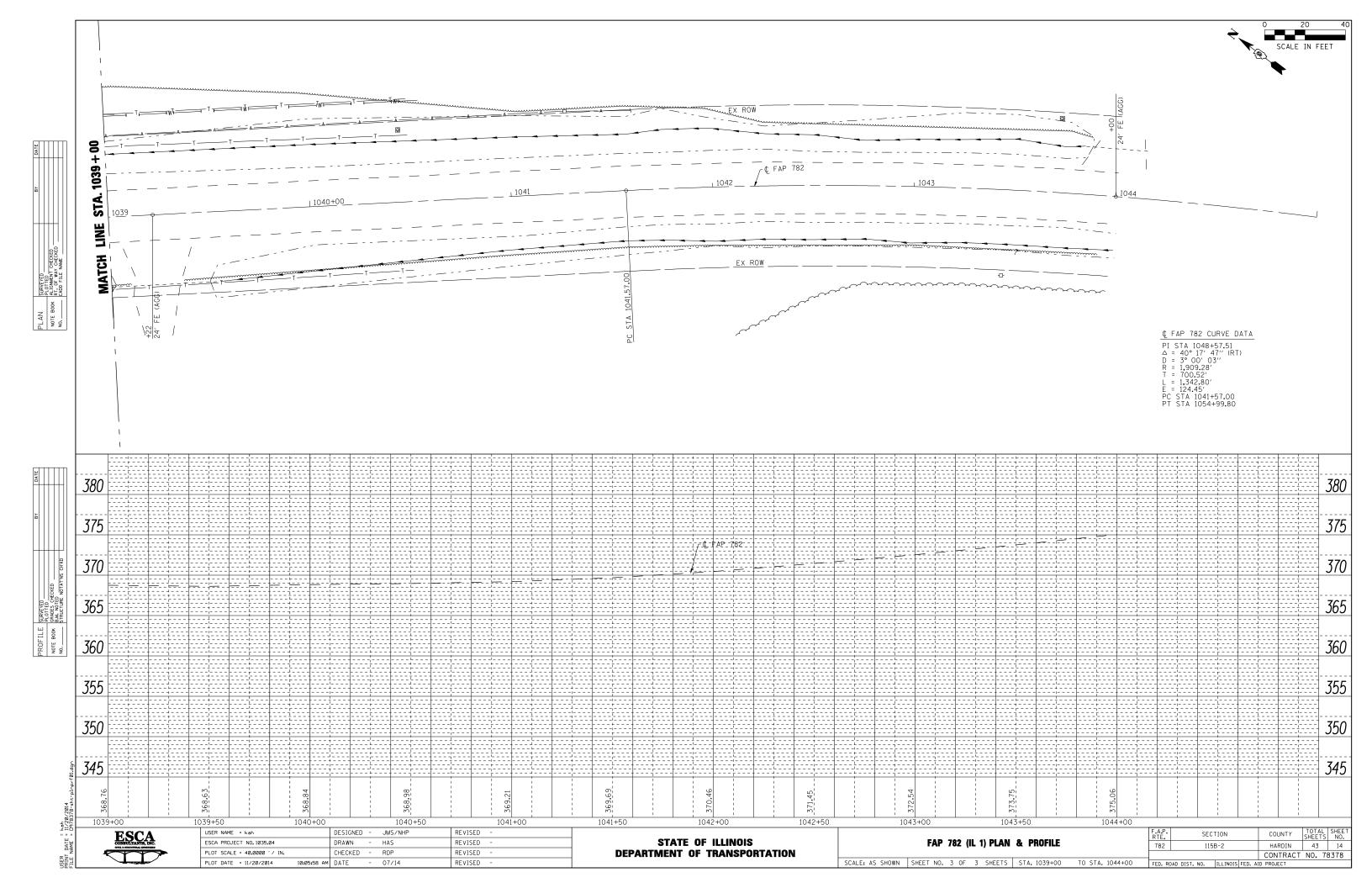
② REMOVAL OF SHORT-TERM PAVEMENT MARKING

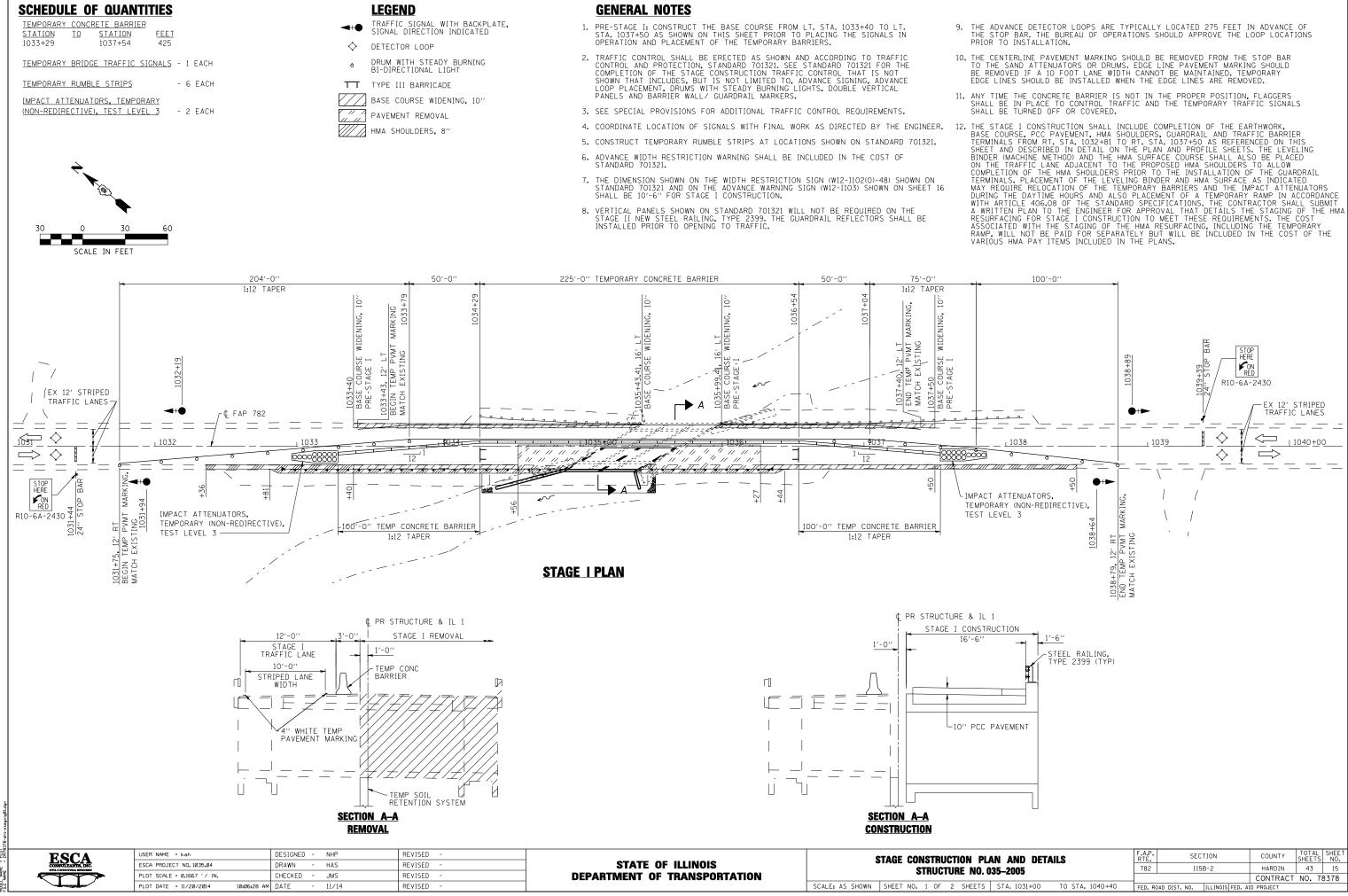
3 REMOVAL OF TEMP PAVEMENT MARKING - LINE

~							F.A.P. RTE.	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES					782	115	3-2		HARDIN	43	11		
											CONTRACT	NO. 7	3378
NO.	1	0F	1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS F	FED. AI	D PROJECT		

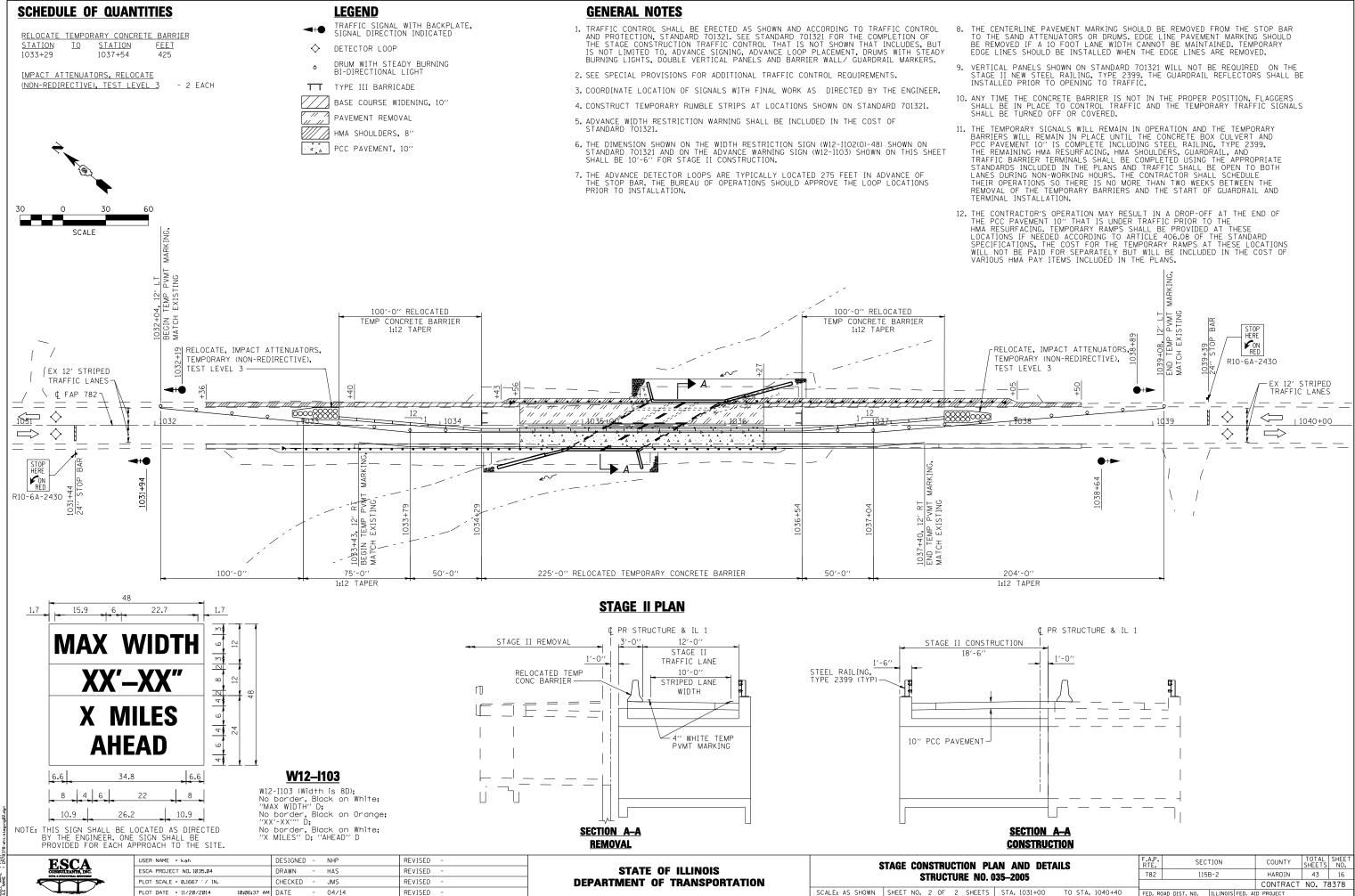




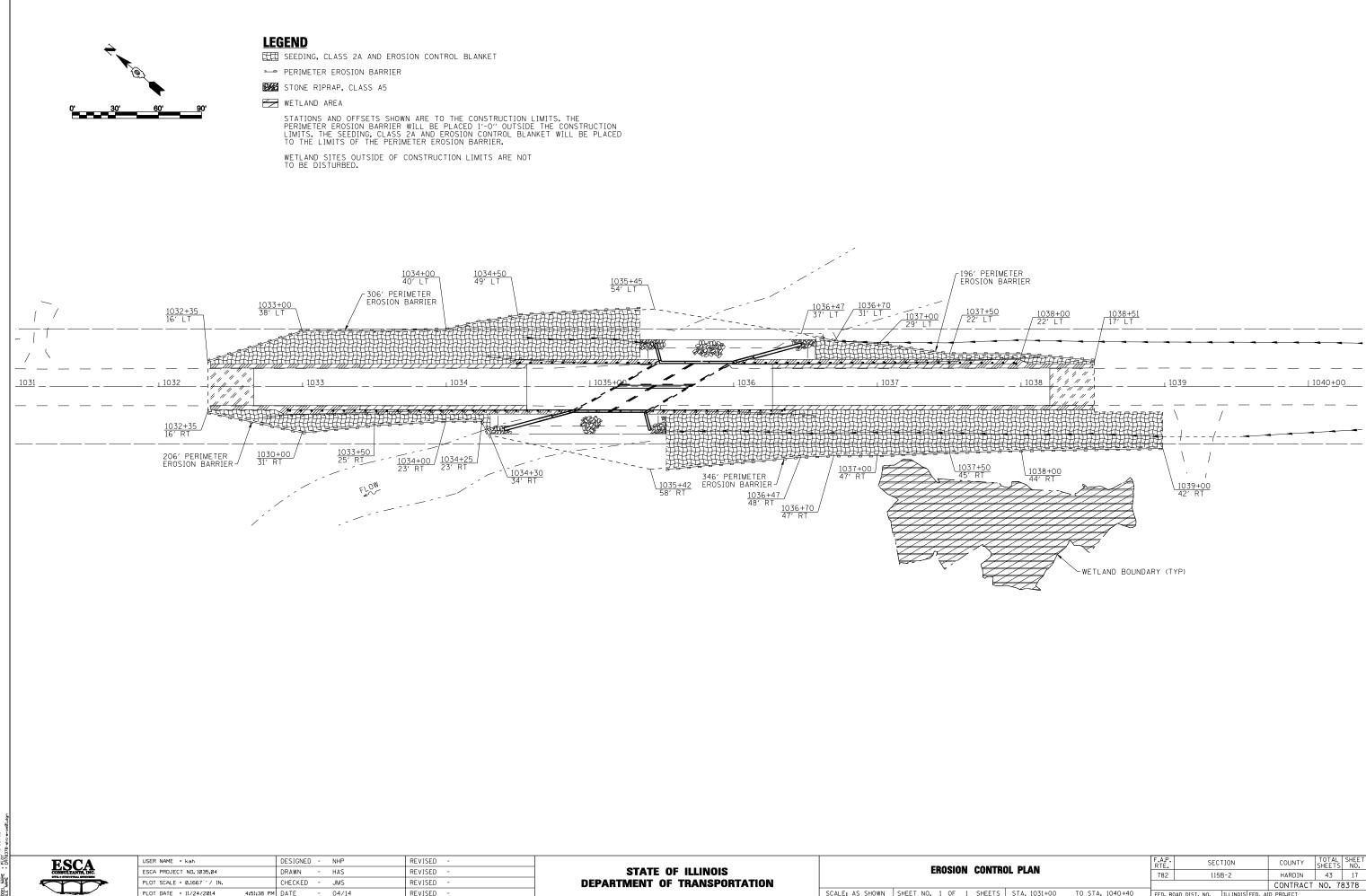




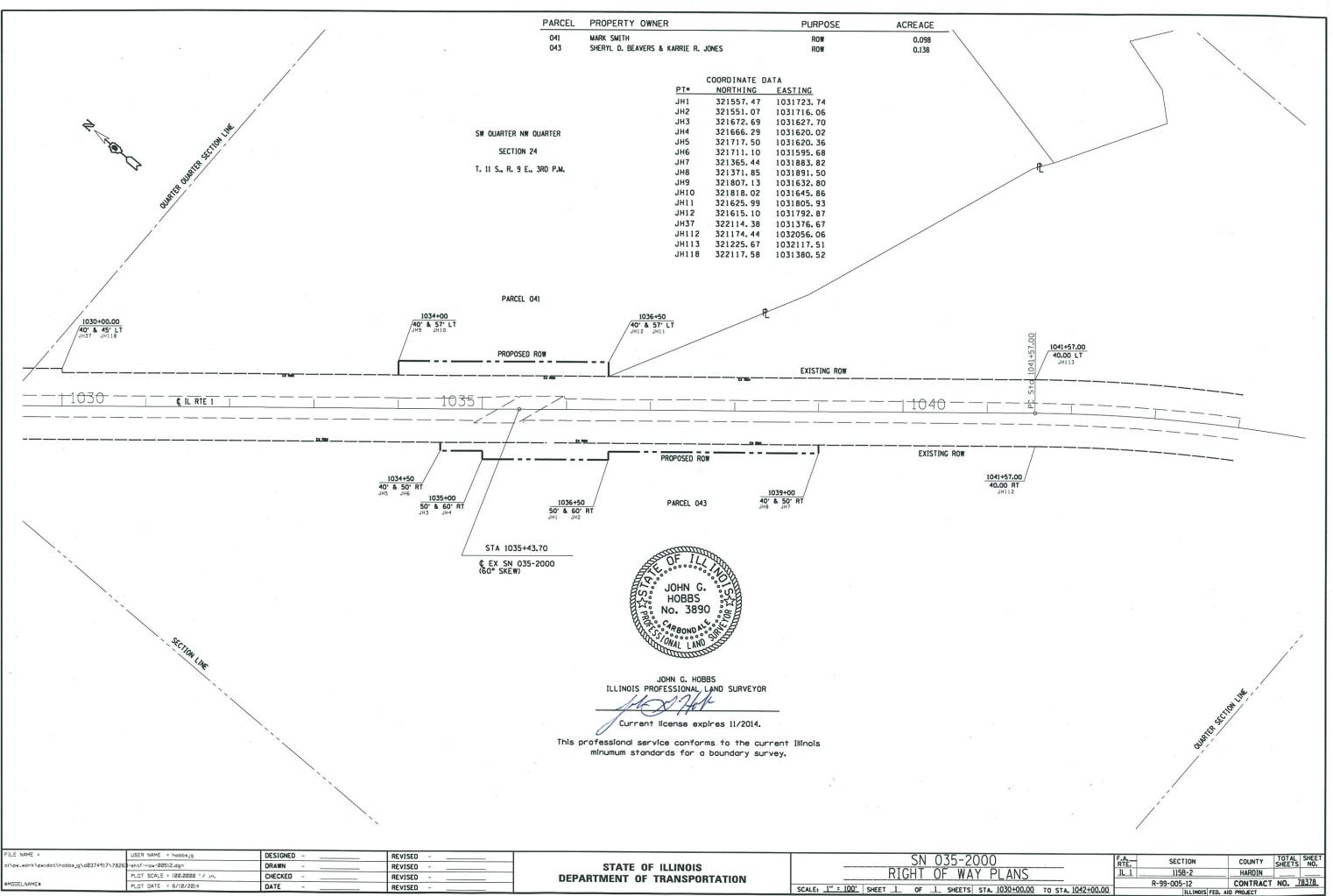
1001 1001 DRIVER ABLE NAME



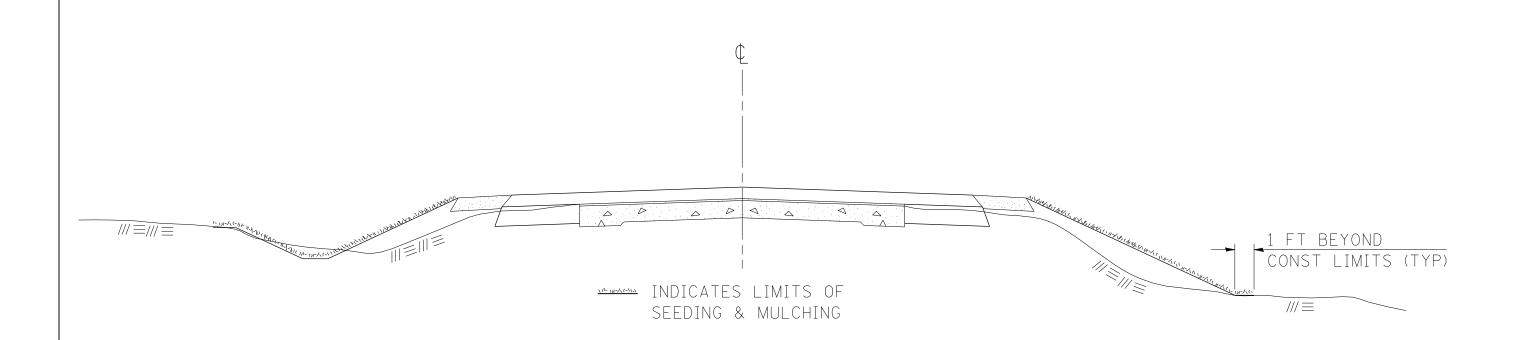
1001 1001 DRIVER ABLE NAME



ESCA	USER NAME = kah	DESIGNED - NHP	REVISED -					F.A.P.	SECTION	COUNTY	TOTAL SHEET
CONSULTANTS, INC.	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		EROSION CONTROL PLAN		782	115B-2	HARDIN	43 17
	PLOT SCALE = 0.1667 ' / IN.	CHECKED - JMS	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 78378
	PLOT DATE = 11/24/2014 4:51:38 PM	DATE - 04/14	REVISED -		SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS STA. 1031+00	TO STA. 1040+40	FED. ROAD D	IST. NO. ILLINOIS FED. AI	D PROJECT	



SEEDING & MULCHING



<u>GENERAL NOTES</u>

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CON-STRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

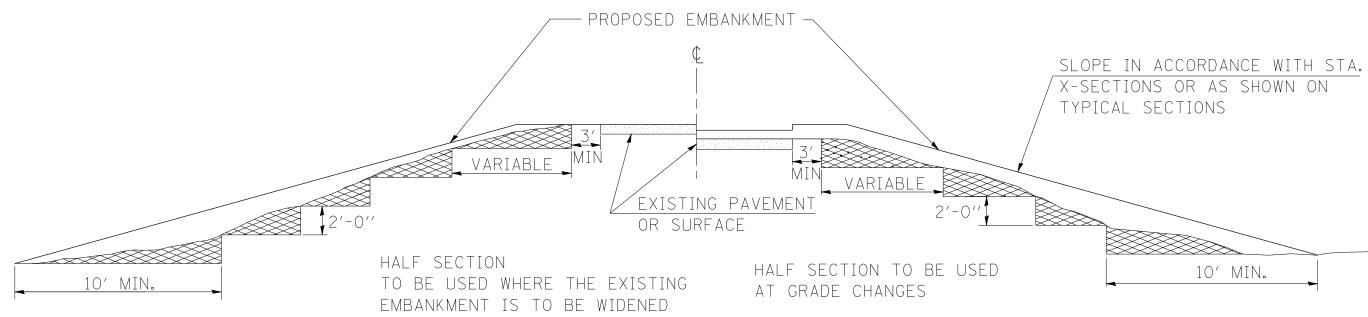
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.



FSCA	USER NAME = kah	DESIGNED - NHP	REVISED -			
ESCA CONSULTANTS, INC.	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS		SEEDING AND MULCH
	PLOT SCALE = 0.1667 '/ IN.	CHECKED - JMS	REVISED -	DEPARTMENT OF TRANSPORTATION		
	PLOT DATE = 11/20/2014 10:15:07 AM	DATE - 05/14	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS

								REVIS	SIC	DNS	
							REDF	RAWN	2	2-15-	-89
							RE V I	SED	8	3-15-	-94
					~	_	REVI	SED		6-3	-99
			SIL)	9-12	-	REVI	SED	3	-27-	80
				F.A.P. RTE.	SEC.	TION		COUNT	Y	TOTAL SHEETS	SHEET NO.
CH	ING DETAILS			782	115	B-2		HARDI	N	43	19
_								CONTRA	4CT	NO. 7	8378
S	STA.	TO STA.		FED. RO	AD DIST. NO.	ILLIN	OIS FED. AI	D PROJECT			

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



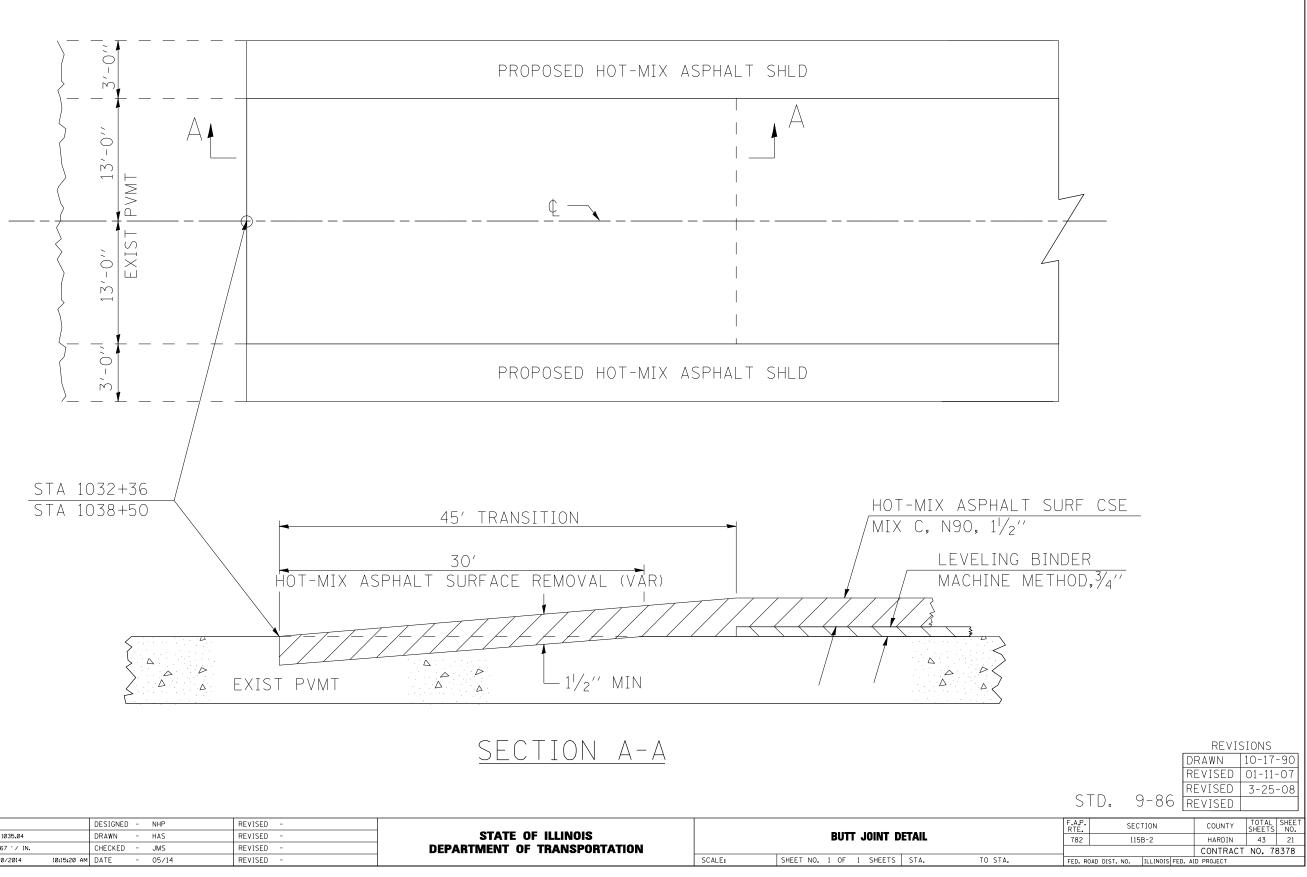
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.



FSCA	USER NAME = kah	DESIGNED - NHP	REVISED -			
ESCA CONSULTANTS, INC.	ESCA PROJECT NO. 1035.04	DRAWN - HAS	REVISED -	STATE OF ILLINOIS	STE	P CONSTRUCTION ON EXIST
	PLOT SCALE = 0.1667 '/ IN.	CHECKED - JMS	REVISED -	DEPARTMENT OF TRANSPORTATION		
	PLOT DATE = 11/20/2014 10:15:14 AM	DATE - 05/14	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS S

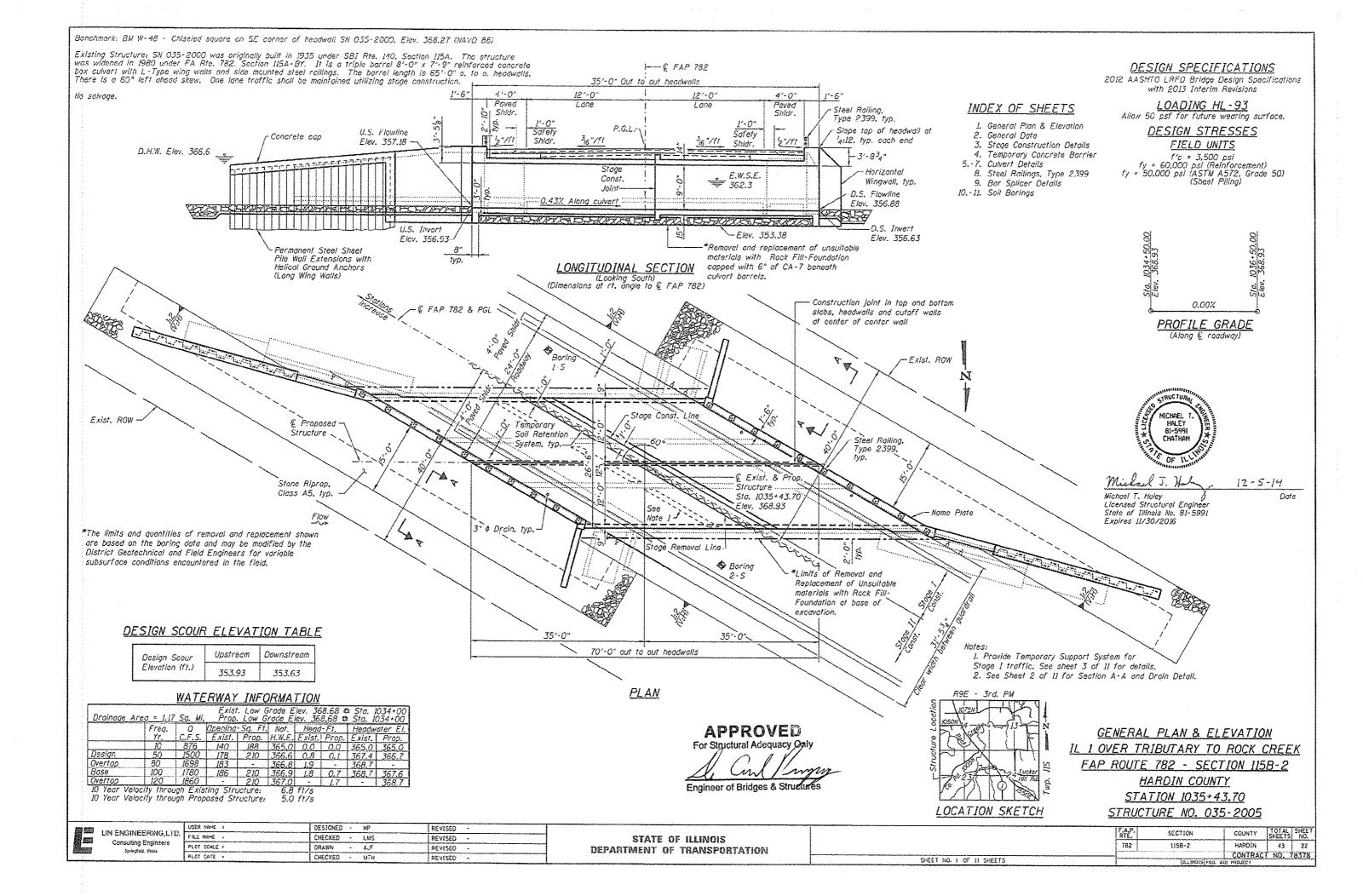
							REVIS	IONS	
						R	EDRAWN	2-15	-89
						R	EVISED	8-15	-94
		6		~		CI	HECKED	6-3	3-99
		S	TD.	Ç	9-16	R	ESIZED 5	5-7-0	8
		F.A.P. RTE.		SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.
X	ISTING FILL DETAILS	782		1158	3-2		HARDIN	43	20
							CONTRACT	NO. 7	8378
	STA. TO STA.	FED. RC	AD DIST.	N0.	ILLINOIS FE). AI	D PROJECT		

BUTT JOINT



ESCA CONSTITUTION DATE:	USER NAME = koh ESCA PROJECT NO. 1035,04 PLOT SCALE = 0.1667 '/ IN.	DESIGNED - NHP DRAWN - HAS CHECKED - JMS	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINT DET
	PLOT DATE = 11/20/2014 10:15:20 AM	DATE - 05/14	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS ST

PRINT DRIVER = [_PD_E_B_0_0]t PEN TABLE = [_DOT_VER02_TBL MODEL NAME = PLOT_VER02_TBL MODEL NAME = PTOT_VER02_TBL FILE NAME = PTOT_VER0_1

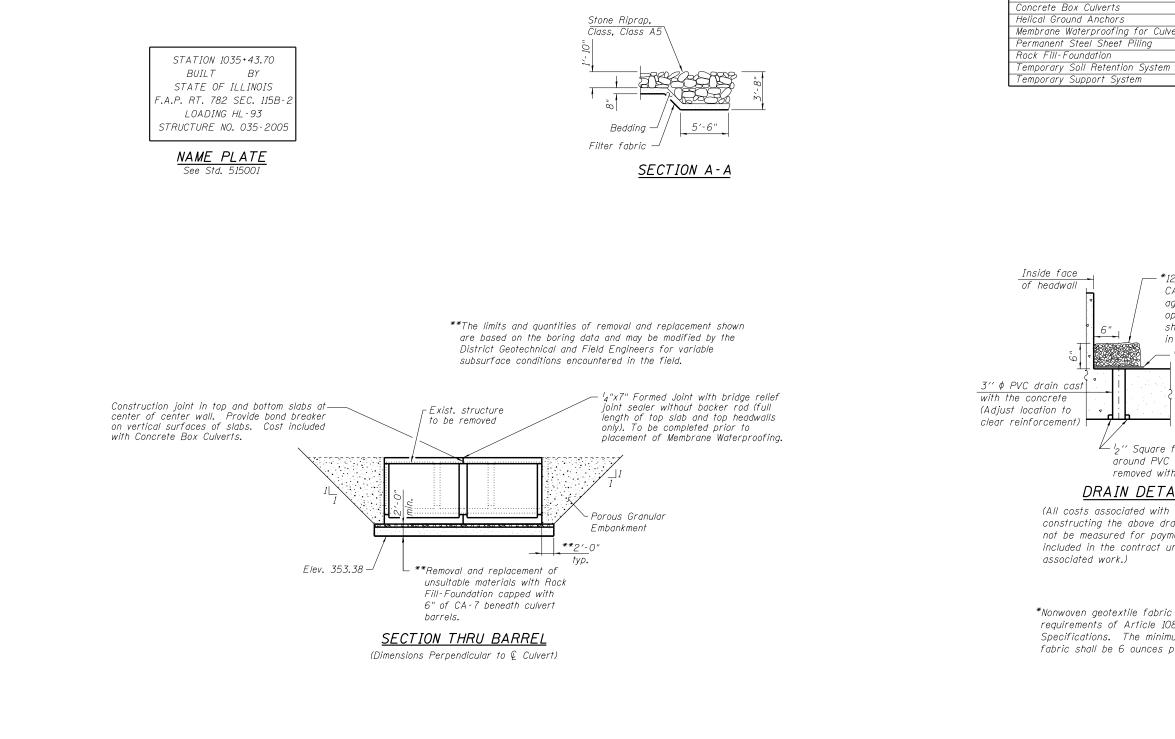


GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

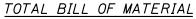
Precast alternate is not allowed.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications. Cost shall be included with Concrete Box Culverts. Waterproofing membrane shall cover the top surface of the culvert, including the top and both faces of the beam at stage line, and extend 6 inches up the inside face of the headwall. The waterproofing membrane shall extend to 6 inches below the construction joint between the culvert sidewall and the top slab on the outside face of the sidewalls.



	USER NAME =	DESIGNED - HP	REVISED -		GENERAL DATA	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
Springfield, Illinois	FILE NAME =	CHECKED - LMS	REVISED -	STATE OF ILLINOIS		782	115B-2	HARDIN	43	23
	PLOT SCALE =	DRAWN - AJF	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 035–2005	102	1150 2	CONTRACT		8378
	PLOT DATE =	CHECKED - MTH	REVISED -		SHEET NO. 2 OF 11 SHEETS	-	ILLINOIS FED. A		<u></u>	<u>,,,,,</u>

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	496
Stone Riprap, Class A5	Sq. Yd.	353
Filter Fabric	Sq. Yd.	353
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	159
Reinforcement Bars, Epoxy Coated	Pound	57480
Bar Splicers	Each	390
Steel Railing, Type 2399	Foot	111
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	300.0
Helical Ground Anchors	Each	16
Membrane Waterproofing for Culverts	Sq. Yd.	231
Permanent Steel Sheet Piling	Sq. Ft.	1589
Rock Fill-Foundation	Ton	241
Temporary Soil Retention System	Sq. Ft.	982
Temporary Support System	L Sum	1



*12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

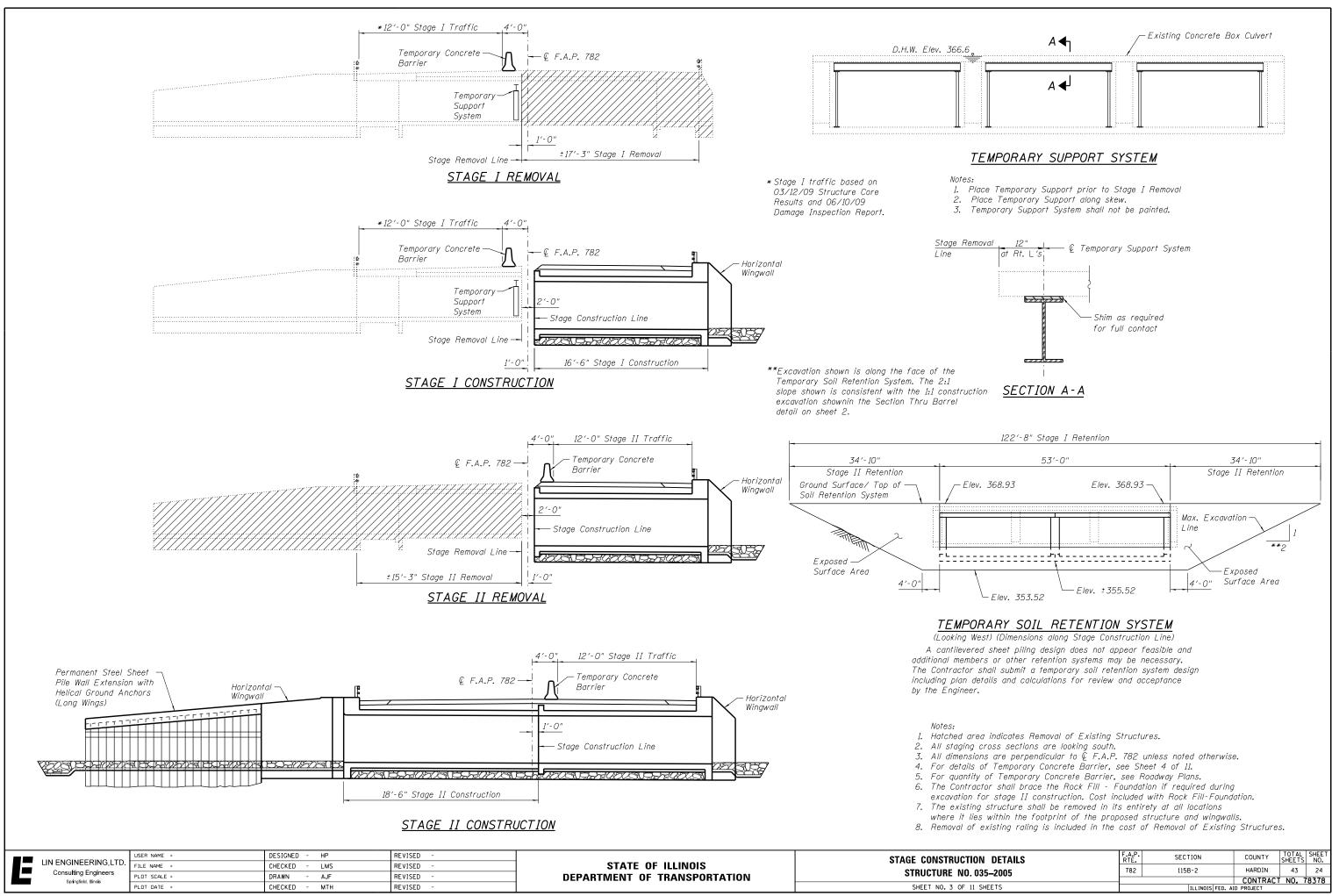
*Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic.

∠ '2'' Square foam blockout around PVC drain (to be removed with formwork)

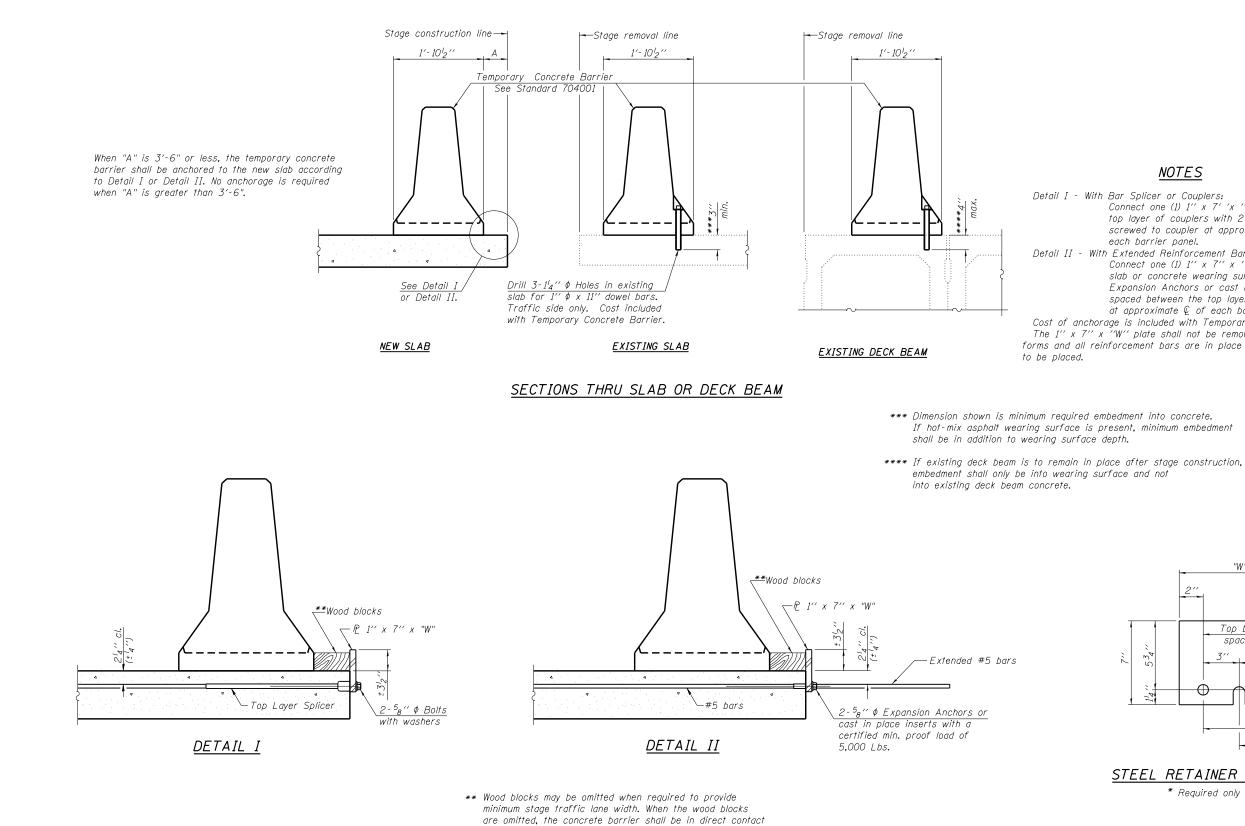
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the

*Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



ION DETAILS . 035–2005 11 SHEETS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		115B-2	HARDIN	43	24
		ILLINOIS FED. A	CONTRACT ID PROJECT	NO. 7	8378



with the steel retainer plate. "W" = Top bars spacing + 4"

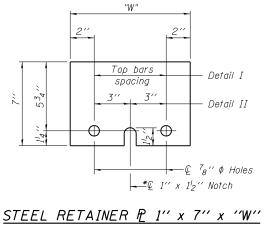
R-27

7-1-10

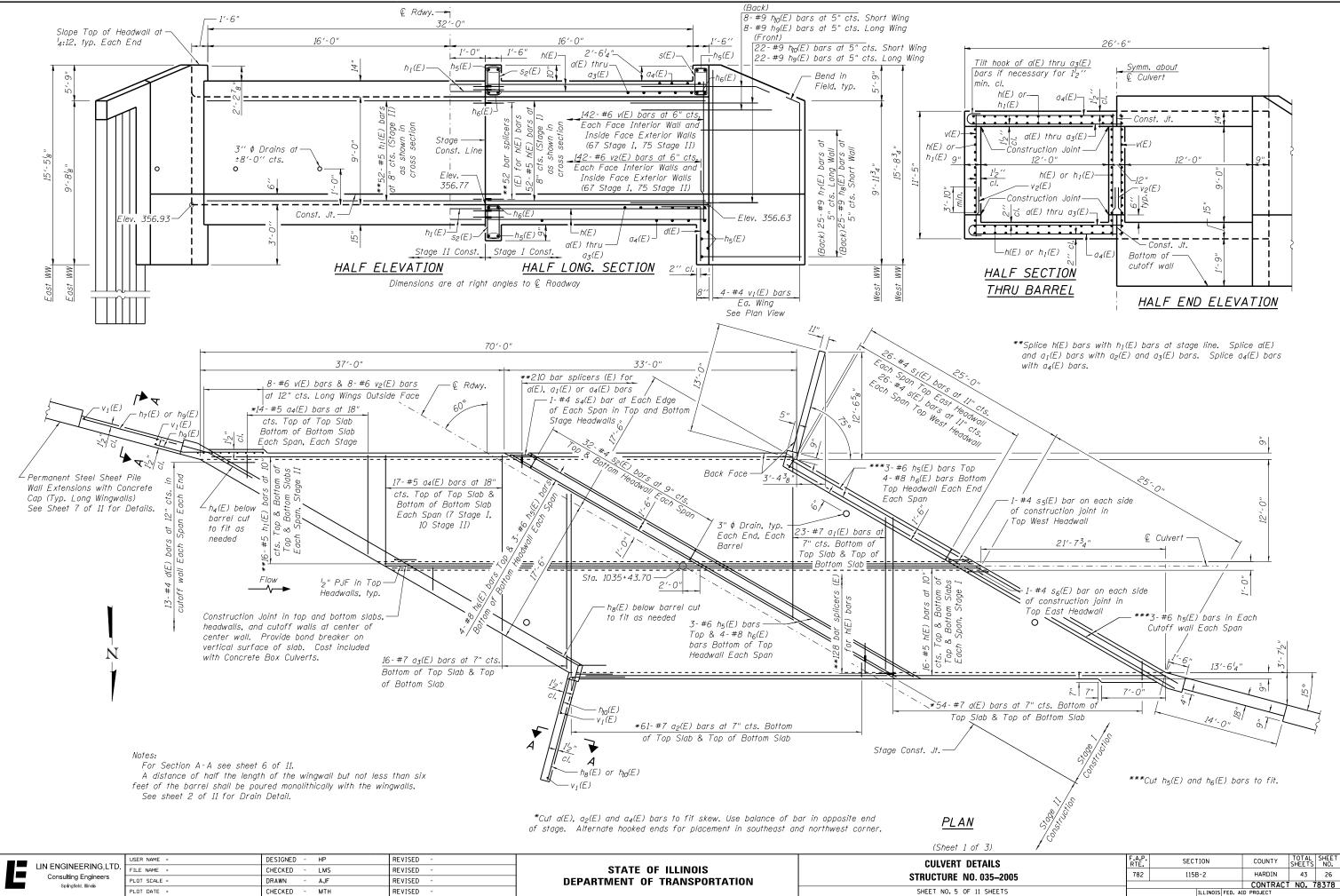
	USER NAME =	DESIGNED - HP	REVISED -		TEMPORARY CONCRETE BARRIER		SECTION	COUNTY	TOTAL	SHEET
Consulting Engineers	FILE NAME =	CHECKED - LMS	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 035–2005	782	115B-2	HARDIN	43	25
Springfield, Illinois	PLOT SCALE = PLOT DATE =	DRAWN - AJF CHECKED - MTH	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 4 OF 11 SHEETS		ILL INOIS FED.	CONTRAC	T NO.	8378

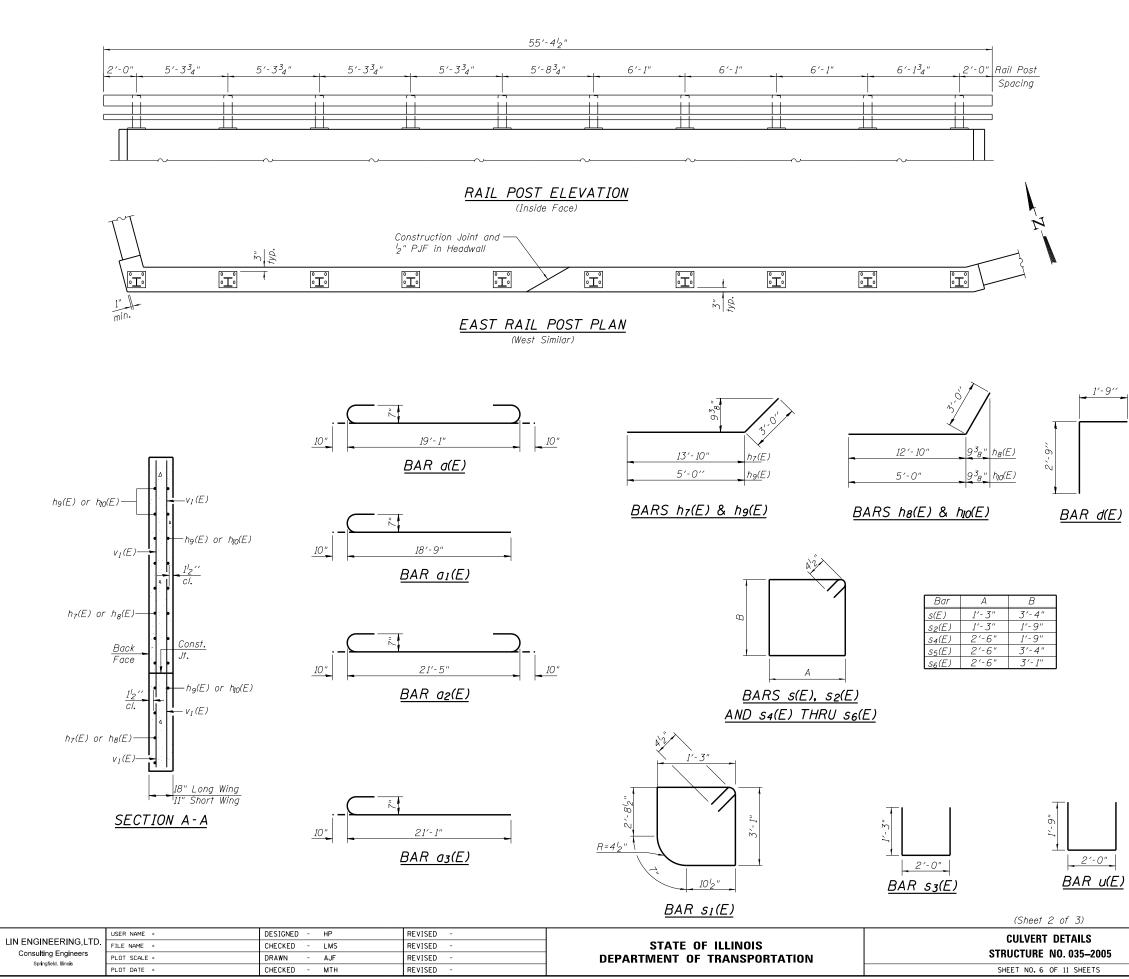
NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) $1'' \times 7' \times 'W''$ steel P to the top layer of couplers with $2^{-5}s'' \phi$ bolts screwed to coupler at approximate \mathcal{Q} of each barrier panel. Detail II - With Extended Reinforcement Bars: Connect one (1) I'' x 7'' x 'W'' steel ₱ to the concrete slab or concrete wearing surface with 2-5₈'' ¢ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate Q of each barrier panel. Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready



* Required only with Detail II





=

Bar	NO.	Size	Lengin	Snape
a(E)	108	#7	20'-9"	
a1(E)	46	#7	19′-7″	
a ₂ (E)	122	#7	23'-1"	
a3(E)	32	#7	21'-11"	<u> </u>
04(E)	180	#5	13'-0"	
d(E)	52	#4	4'-6"	
h(E)	180	#5	32′-8″	
$h_I(E)$	180	#5	36′-8″	
h5(E)	36	#6	26′-2″	
h ₆ (Ε)	32	#8	26′-2″	
h7(E)	50	#9	16 ' - 10 "	
h8(E)	50	#9	15′-10″	
hg(E)	60	#9	8'-0"	
h _{IO} (E)	60	#9	8'-0"	
h _{II} (E)	14	#5	35′-1″	
s(E)	52	#4	9′-11″	
s1(E)	52	#4	9′-3″	ľ
s2(E)	128	#4	6′-9″	
s3(E)	26	#5	4′-6″	
54(E)	8	#4	9′-3″	
s5(E)	2	#4	12′-5″	
s6(E)	2	#4	11'- 11"	
u(E)	72	#5	5′-6″	
v(E)	584	#6	9'-4"	
v1(E)	16	#4	15′-4″	
v ₂ (E)	584	#6	5′-7″	
v3(E)	8	#6	13′-8″	
	Box Culver		Cu. Yd.	300.0
	ment Bars	,	Pound	57480
Ероху Со				
	t Steel Sh		Sq. Ft.	1589
	ound Anch	ors	Each	16
Bar Splice	ers		Each	390

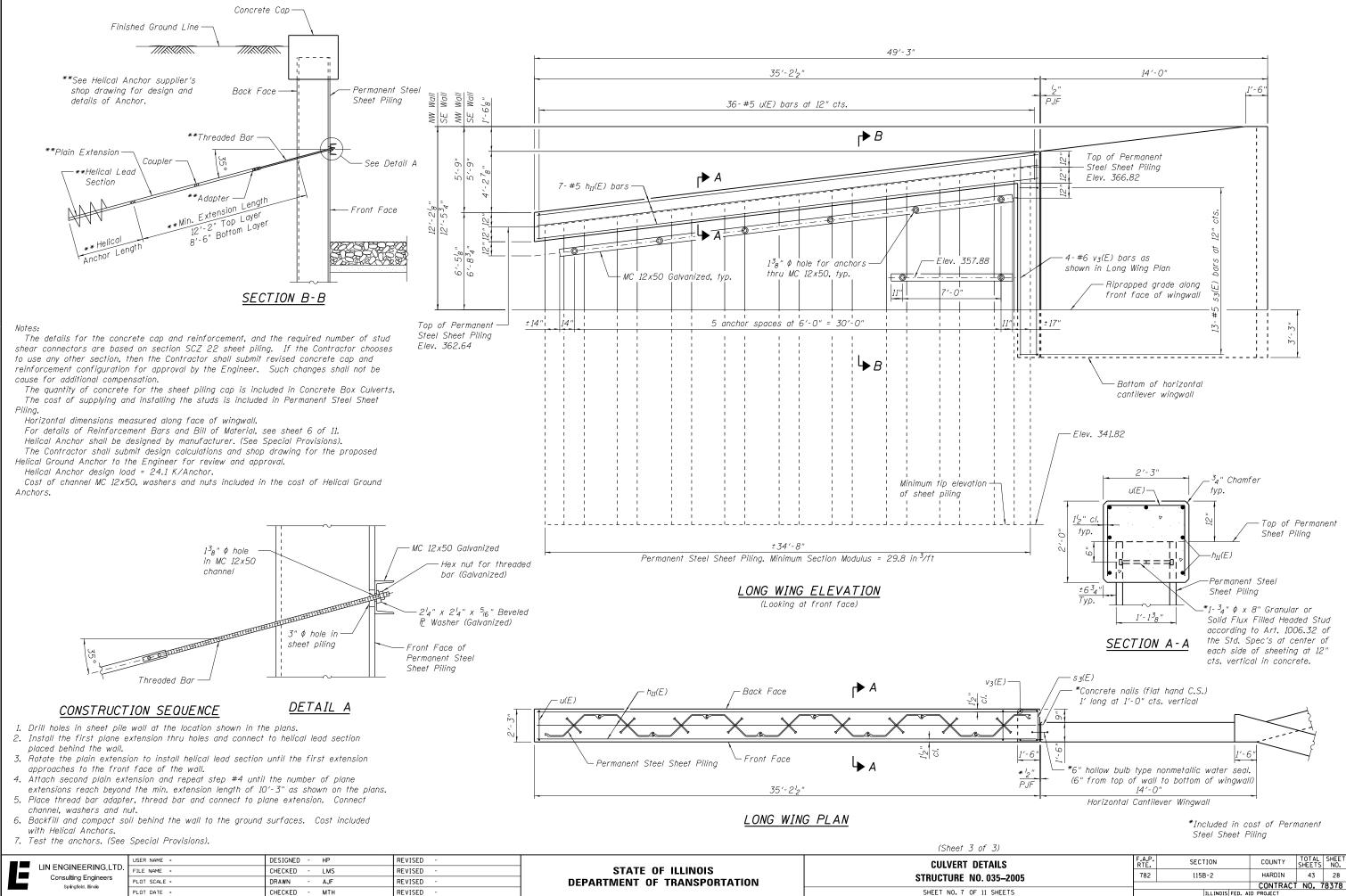
5)					
AILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
035–2005	782	115B-2	HARDIN	43	27
			CONTRACT	「 NO. 7	8378
SHEFTS					

<u>BILL OF MATERI</u>AL

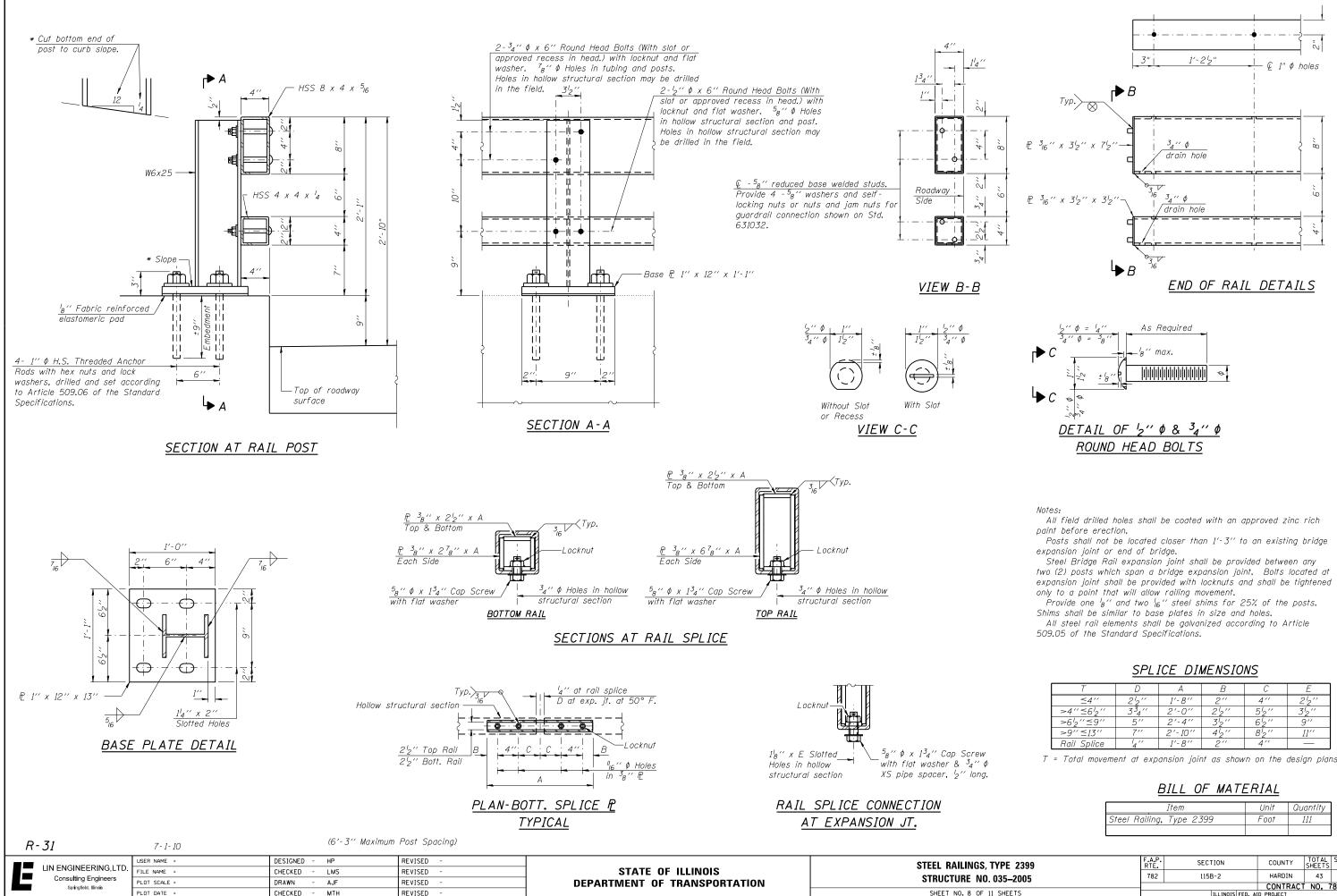
Size Length Shape

No.

Bar



LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois	USER NAME = FILE NAME = PLOT SCALE =	DESIGNED - HP CHECKED - LMS DRAWN - AJF	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETA Structure NO.03
Spingreid, innois	PLOT DATE =	CHECKED - MTH	REVISED -		SHEET NO. 7 OF 11 S



MTH

REVISED

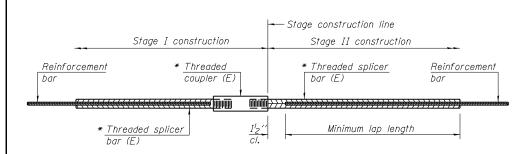
SPLICE	DIMENSIONS

T	D	A	В	С	Ε
≦4‴	2'2''	1'-8''	2''	4''	2'2''
>4''≤6'2''	334''	2'-0''	2'2''	5'2''	3'2''
>6 ¹ 2″≤9″	5″	2'-4''	3'2"	6'2''	9″
>9‴≤13″	7''	2'-10''	4'2''	8'2''	11''
Rail Splice	1,"	1'-8''	2"	4''	

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

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	111

TYPE 2399 . 035–2005		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		115B-2	HARDIN	43	29	
			CONTRACT	NO. 7	8378	
11 SHEETS	ILLINOIS FED. AID PROJECT					



STANDARD BAR SPLICER ASSEMBLY

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

Table 1: Black bar, 0.8 Class C

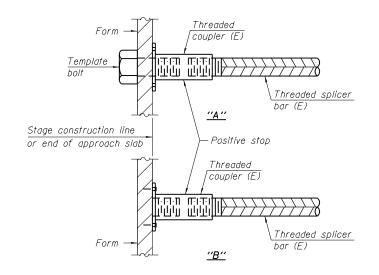
Table 2:Black bar, Top bar lap, 0.8 Class CTable 3:Epoxy bar, 0.8 Class CTable 4:Epoxy bar, Top bar lap, 0.8 Class CTable 5:Epoxy bar, Class C

Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1_{2}^{l} + thread length

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

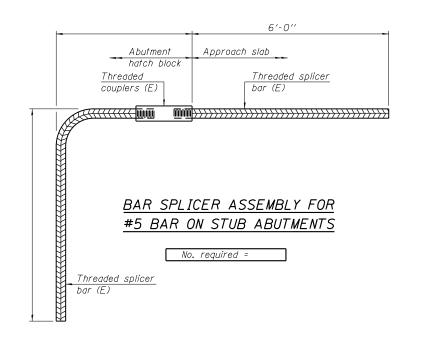
Location	Bar size	No. assemblies required	Table for minimum lap length
Barrel	#5	236	3
Barrel	#7	154	3



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

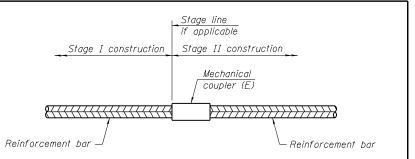
(E): Indicates epoxy coating.



BSD-	1
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8-31-12

	USER NAME =	DESIGNED - HP	REVISED -		BAR SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY T	TOTAL SHEET SHEETS NO.
LIN ENGINEERING,LTD. Consulting Engineers	FILE NAME =	CHECKED - LMS	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 035–2005	782	115B-2	HARDIN	43 30
Springfield, Illinois	PLOT DATE =	CHECKED - MTH	REVISED -		SHEET NO. 9 OF 11 SHEETS		- CONTRACT NO. 78		



STANDARD MECHANICAL SPLICER

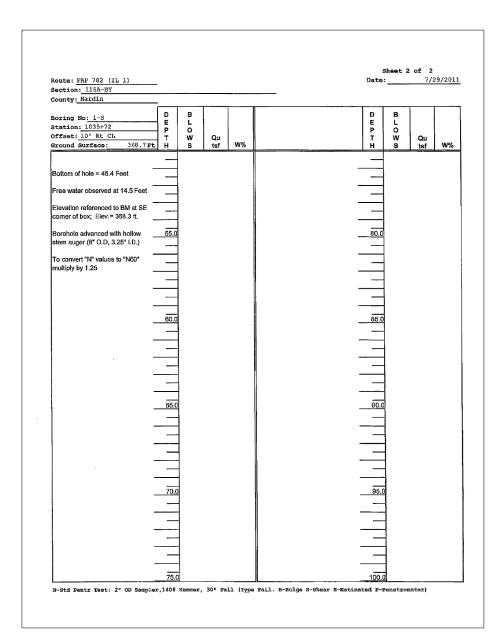
Location	Bar size	No. assemblies required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

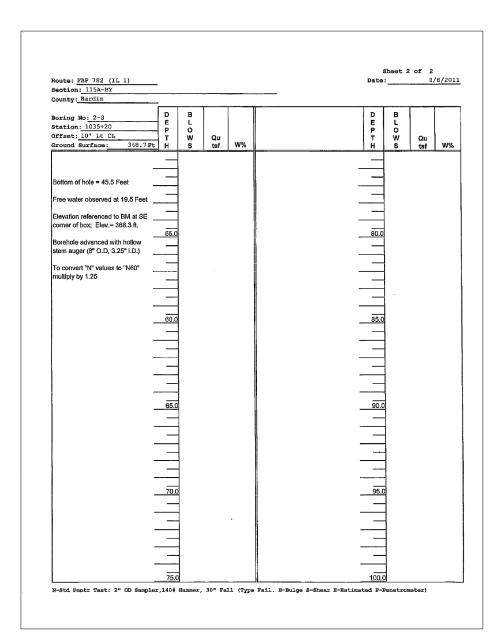
All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FAP 782 (IL Rte 1) Over trib			Distr	ict Ni	T OF TRANSPORTATION ne Materials	E	Bridge Boring Bheet 1	Log	
Route: FAP 782 (IL 1) St:	ruotur	a Numbe	r: 035	-2000		Date		/29/20	1:
Section 115A-BY	-						R Mobe		_
County: Hardin	Loca	tion: 4	.0 Mi	South c	f Gallatin County Check	ed By:	R Grae	ff	_
Boring No <u>1-S</u> Station <u>1035+72</u>	DEP	B L O			Surf Wat Elev: 359.3 Ground Water Elevation when Drilling 354.2	- D E P	B L O		
Offset 10' Rt CL Ground Surface 368.7Ft	T I	WS	Qu tsf	W%	At Completion		W S	Qu tsf	
Asphalt and concrete	<u>_ n</u>			11.70	At: Hrs: Dense, moist, grey and brown,		16	131	
					broken Sandstone gravel with Clay A-6		18		
Medium, very moist, grey and		_							
brown, Silty Clay A-6		1_	0.75		341.2		6	0.50	_
-		2 2	0.7B	25	Very stiff, damp, grey, Clay A7-6 to weathered Clay Shale	_	7 11	2.58	
364.2					-				
Soft, very moist, grey mottled	5.0	WH	0.45		338.7	30.0	20		
black, Silty Clay Loam A-6 -		1 1	0.4B	25	Hard, dry, grey, Clay Shale 338.2		100/5"		
361.7					Cored 30.4 to 35.4 feet				
Very soft, very moist, grey, Silty		WH			Hard, dry, grey, Clay Shale				
Clay Loam A-4		1 WH	0.2B	29	73% Recovery; 16% RQD				
359.2					Test @ 574 psi				
Medium, very moist to moist, grey, _	10.0	WH				35.0			
Silt Loam to Silty Clay Loam A-4		1 1	0.8B	33	333.2				
356.7	_				Cored 35.4 to 40.4 feet				
Medium, very moist, grey mottled		WH			Hard, dry, grey, Clay Shale]		
brown, Silty Clay A-6		WH 1	0.6B	30	87% Recovery; 34% RQD				
354.2					Test @ 1,131 psi		1		
Stiff, moist, grey mottled brown,	15.0	1				40.0	1		
Silt Loam to Silty Clay Loam A-4		2 2	1.3B	27	328.2				
					Cored 40.4 to 45.4 feet		4		
351.7 Medium, very moist, grey, Clay		1			Hard, dry, grey, Clay Shale		1		
A7-6 with sand seams		1	0.9B	24	100% Recovery; 50% RQD		1		
							-		
349.2 Soft, very moist, grey, Clay A7-6	20.0	WH			-	45.0	1		
Gon, yory moist, grey, ciay A7-0	20.0	WH	0.4B	19	323.2		1		
-	····-	1			-		-		
346.7					Bottom of hole = 45.4 Feet		4		
Medium, very moist, grey, Clay A7-6 with some gravel		1 2	0.9B	17	Free water observed at 14.5 Feet				
		2			1		1		
344.2					_	50.0	1		
L	25.0				Fail, B-Bulge S-Shear E-Estim	-			

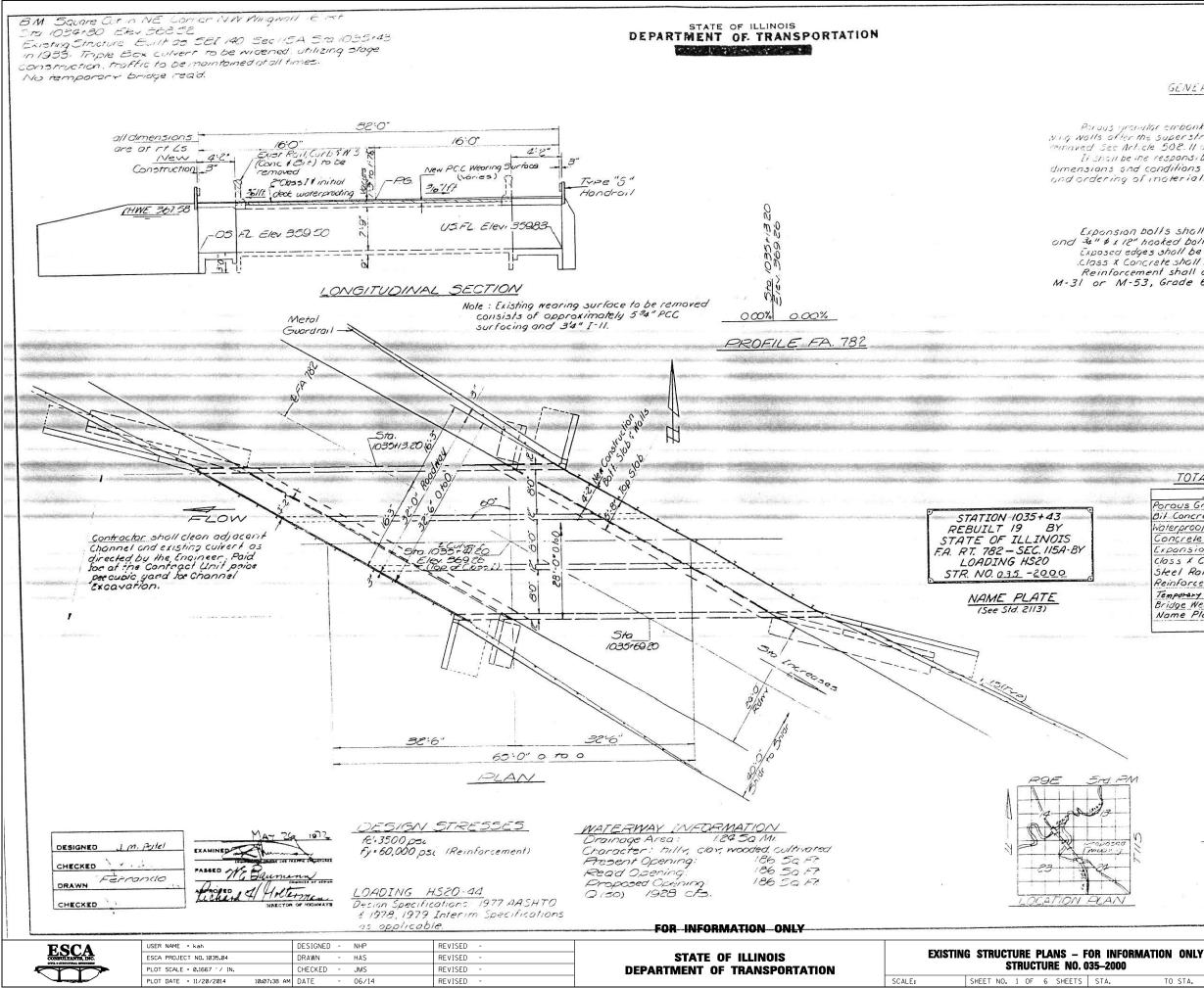


	USER NAME =	DESIGNED - HP	REVISED -		SOIL BORINGS	F.A.P. RTF.	SECTION		TOTAL SHEET	
Consulting Engineers	FILE NAME =	CHECKED - LMS	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 035–2005	782	115B-2	HARDIN	43 31	
Springfield, Illinois	PLOT SCALE =	DRAWN - AJF	REVISED -	DEPARTMENT OF TRANSPORTATION		CONTRACT NO.				
	PLOT DATE =	CHECKED - MTH	REVISED -	SHEET NO.10 OF 11 SHEETS	ILLINOIS FED. AID PROJECT					

					ne Materials		Boring	-	
FAP 782 (IL Rte 1) Over trib							Sheet 1		
	ucture	Numbs	r: 035-	-2000		Date		8/8/201	1
Section 115A-BY				a		red By:			_
County: Hardin	Locat	10n: 4	.0 11	south o		ked By:	R Grae)II	_
Boring No 2-S	D	в			Surf Wat Elev: 359.3	- D	8		I
Station 1035+20	E	L			Ground Water Elevation when Drilling 349.2	E	L		I
Offset 10' Lt CL	P	0	Qu		At Completion	- P T	0	Qu	ł
Ground Surface 368.7 Ft	T H	W S	tsf	W%	At: Hrs:	-1 -	W S	tsf	ì
Asphalt and concrete		<u> </u>			Medium to Dense, moist, grey		13		+
Aspiral and concrete					and brown, broken Sandstone		17		
367.2					Gravel with Clay A7-6				-
Stiff, moist, brown, Silty Clay					341.7				
A-6		1			Very stiff, moist, grey, Clay A7-6		4		
_		5	1.9B	24	with broken Sandstone		6	2.3B	
		5			Gravel		9_		
364.2							1		
	5.0	1			338.7	30.0	17		-
Silty Clay Loam A-6	0.0	2	1.0B	25	Hard, dry, grey, Clay Shale 338.2		100/5"		-
,,		3			90% Recovery; 18% RQD		1		
-					Hard, dry, grey, Clay Shale		1		1
361.7							ļ		
Soft, very moist, grey, Silty Clay		WH			Test @ 356 psi		1		
Loam A-6 _		1	0.4B	30	1		-		
		1			-{		1		
-					Test @ 218 psi		1		
	10.0	WH			1 and 8 2 is par	35.0	5		
-		WH	0.3B	27	333.2		1		
_		WH							
							1		
356.7					Cored 35.5 to 40.5 feet		4		
Medium, very moist, grey mottled	_	<u>WH</u>	0.6B	29	90%Recovery; 33% RQD		-		
brown, Silty Clay Loam A-6		1	0.06	29	Hard, dry, grey, Clay Shale		1		
	-				Test @ 594 psi		1		
							1		
_	15.0	1				40.0	D		
-		1	0.6B	28	328.2				
		2					-		
	_				Cored 40.5 to 45.5 feet		4		
351.7 Stiff, moist, grey, Clay A7-6		1			100%Recovery; 22% RQD Hard, dry, grey, Clay Shale		1		
with a sand layer	-	1	1.6B	30	In land, dry, grey, oray chale		1		
		2		50	Test @ 576 psi		1		
					1 3 4 4 4]		
349.2					_		1		
Medium, very moist, grey, Silty	20.0	WH			Test @ 362 psi	45.	0		
Clay A-6	_	1	0.8B	20	323.2		4		
-		2			4		-		
346.7					Bottom of hole = 45.5 Feet		-		
Stiff, moist, grey, Clay A7-6		1			150((0110) 0110)e = 45.5 Feet		-		
with broken Sandstone Gravel		7	1.2B	20	Free water observed at 19.5 Feet		1		
		15		20			1		
344.2					_		1		
	25.0	4				50.	0		_

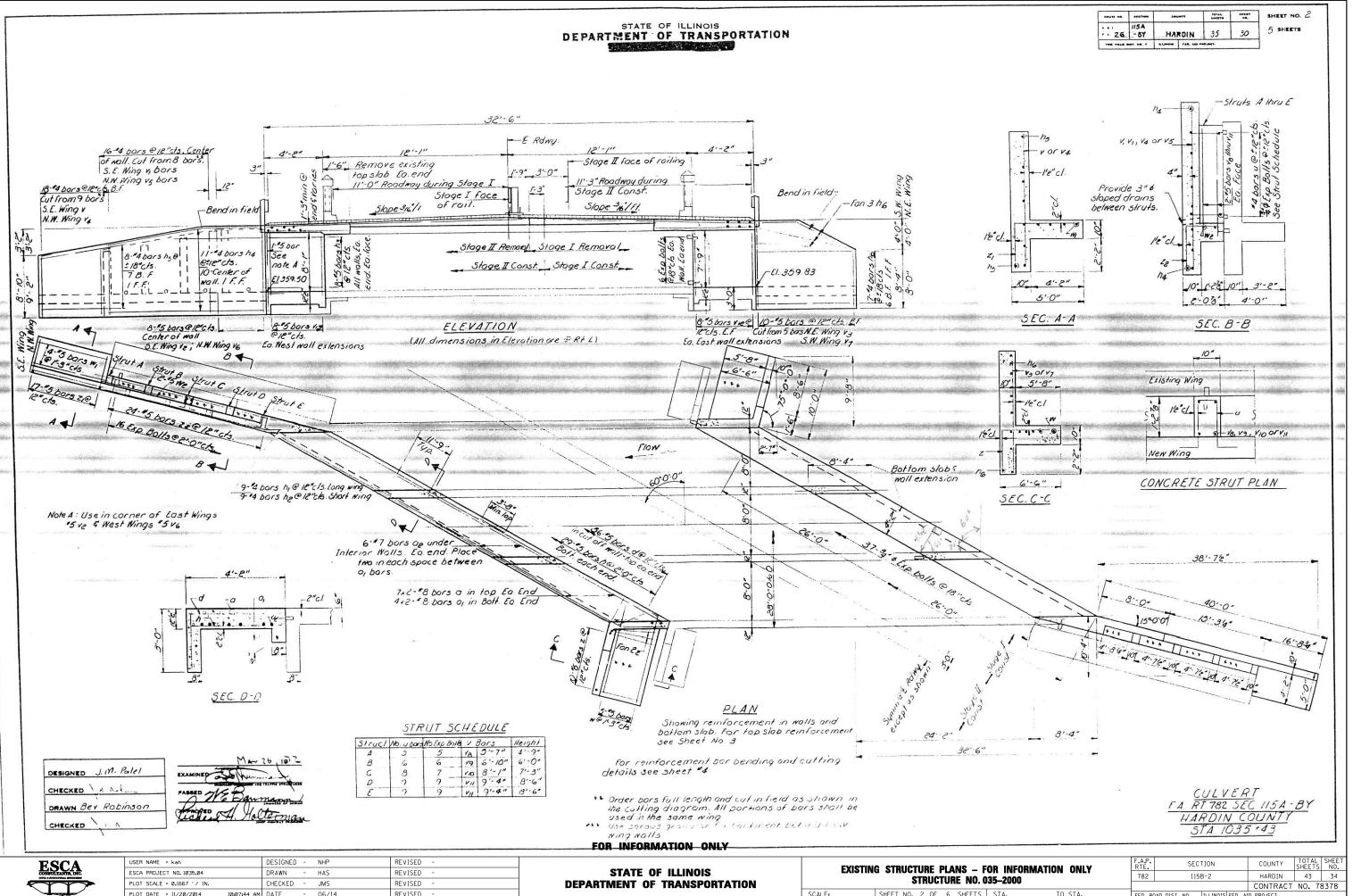


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Consulting Engineers	FILE NAME =	CHECKED - LMS	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 035–2005	782	115B-2	HARDIN 43
Springfield, Illinois	PLOT SCALE =	DRAWN - AJF	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 7
	PLOT DATE =	CHECKED - MTH	REVISED -		SHEET NO. 11 OF 11 SHEETS		ILLINOIS FED. A	AID PROJECT



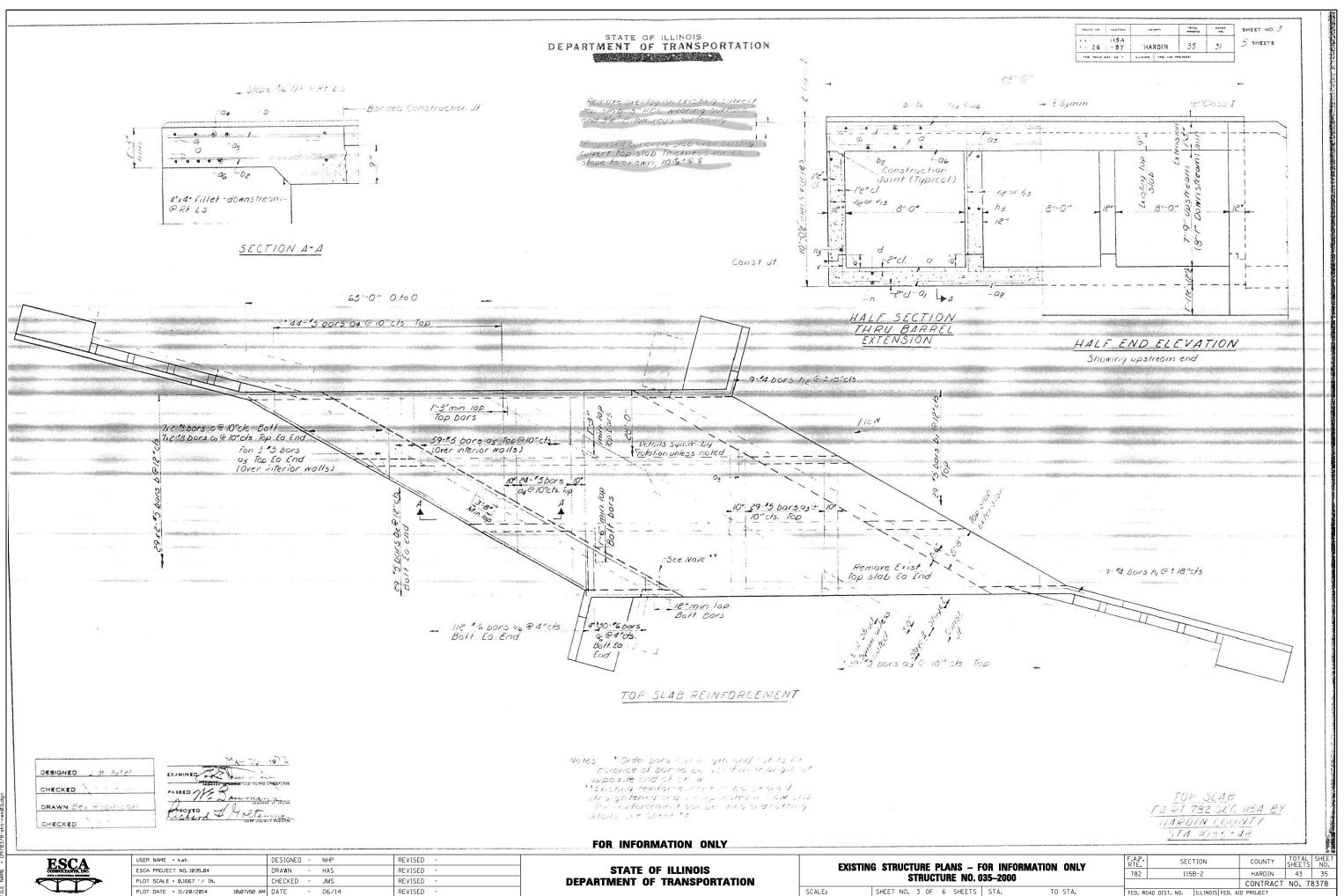
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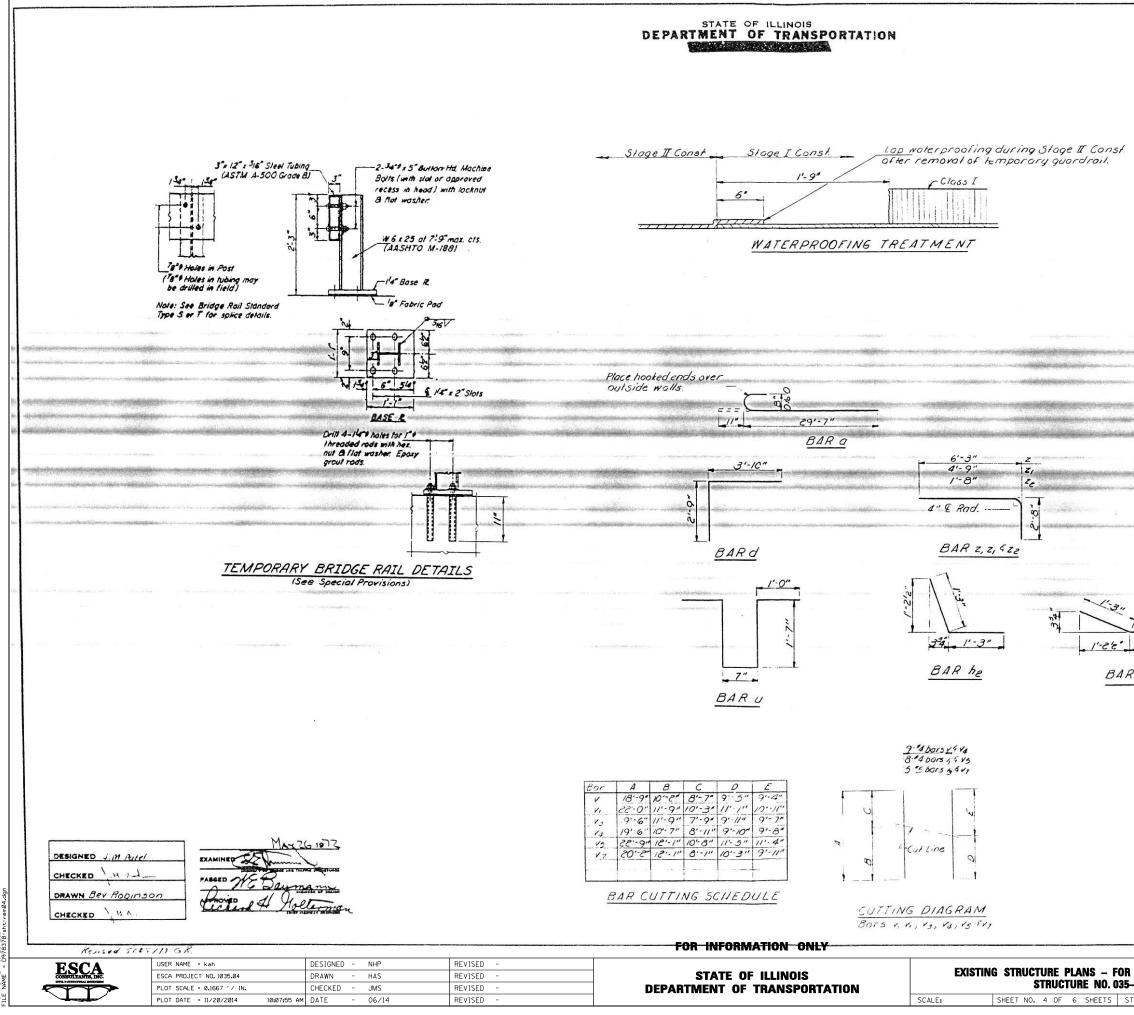
-----SHEET NO. ---------115A 5 SHEETS HARDIN 35 29 . 26 - BY 123. 12.0 pert. 40. 1 ------GENERAL NOTES Parous granular embontment shall be placed behind side wolls and wing wolls after the superstructure has seen poured and the followork removed See Article 502. If of the Standard Specifications. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of inaterials. Expansion bolls shall consist of self drilling expansion unchars and 34" \$ x 12" hooked bolts. Exposed edges shall be beveled "4" except as shown. Class & Concrete shall be used throughout Reinforcement shall conform to the requirements of AASHTO M-31 or M-53, Grade 60. TOTAL BILL OF MATERIAL Item Unit Quantity Porous Granular Embankment Cu. Yds. 41 Bil Concrete S. C. Bit Concrete Surlace Course, classi Tons 22 Vaterproofing Membrane System Sa. Yds. 505 23 226 Concrete Removal Cu. Yds xpansion Bolls 34" \$ Each CU.Yds. 152.3 class & Concrete Box Culverts Lin. Fl. 110 Skel Roiling Type's" 25,350 Reinforcement Bors Lbs. Temporary Bridge Fail Lim. Ft. Bridge Wearing Surface Removal Sq Yds. 130 Name Plates Each GENERAL PLAN & ELEVATION FA 782 OVER TRIBUTARY of ROCK CK. FA. RTE. 732 SEC. 115A-BY HARDIN COUNTY 57A. 1035 + 43 Rev. 10 - 25 - 79 SECTION COUNTY SHEETS 782 115B-2 HARDIN 43 33 CONTRACT NO. 78378 TO STA. FED. ROAD DIST. NO. SEED ATD PROJECT



SHEET NO. 2 OF 6 SHEETS

FOR INFORMATION ONLY				TE. 782	SECT 115E			HARDIN	SHEETS 43	NO.
. 035–2000			.02	1156	, ,			NO. 78	3378	
5	STA.	TO STA	• FE	ED. ROAD	DIST. NO.	ILLINOIS	FED. AI	D PROJECT		



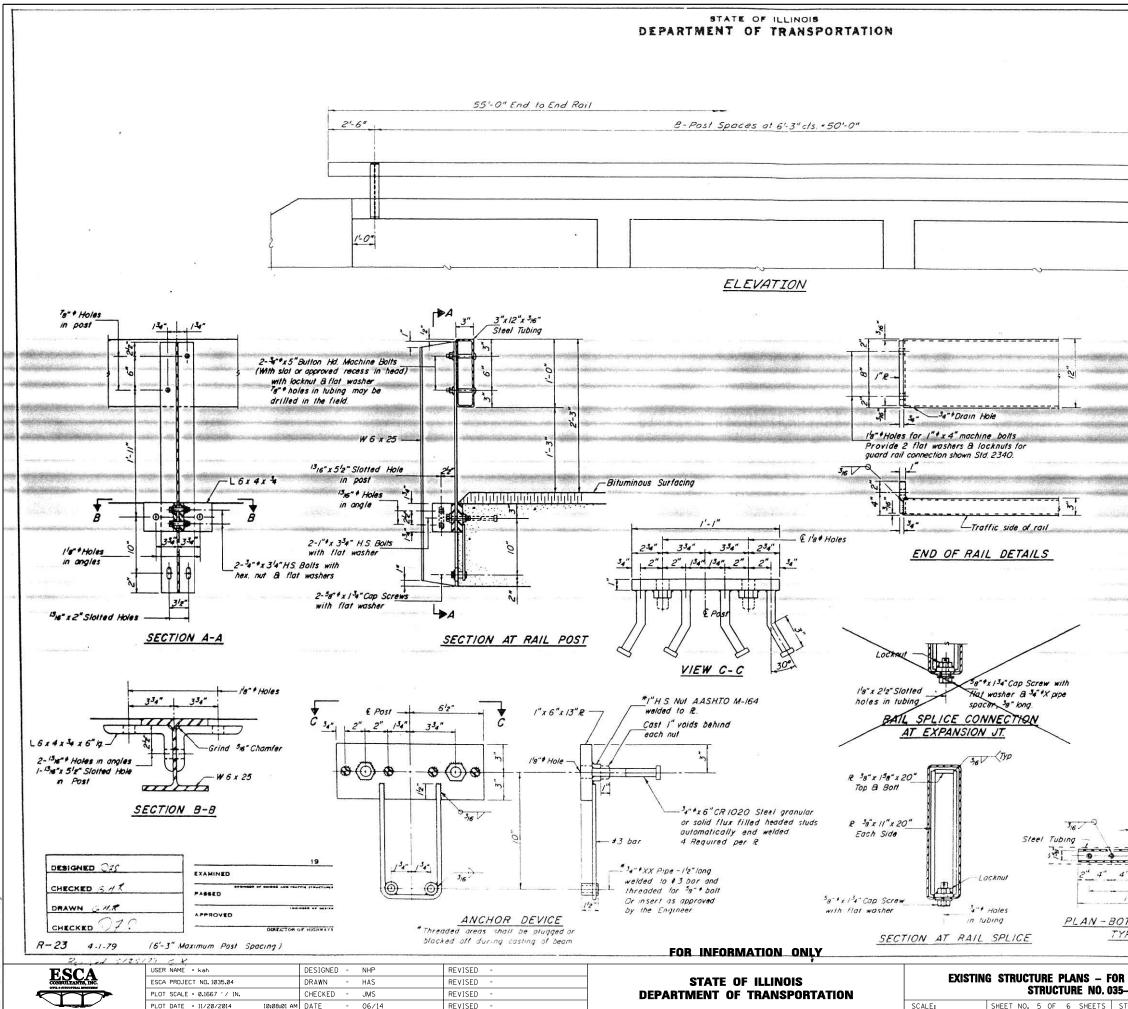


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	a,	44 24	#8	29'-6"			
	az az	68	-5	16'-4"			1
	Q4	68	#5	22'-0"	A CONTRACTOR	Heriotecture.	
	<u>q5</u>	284	*5	8'-0"		autostos.	-9
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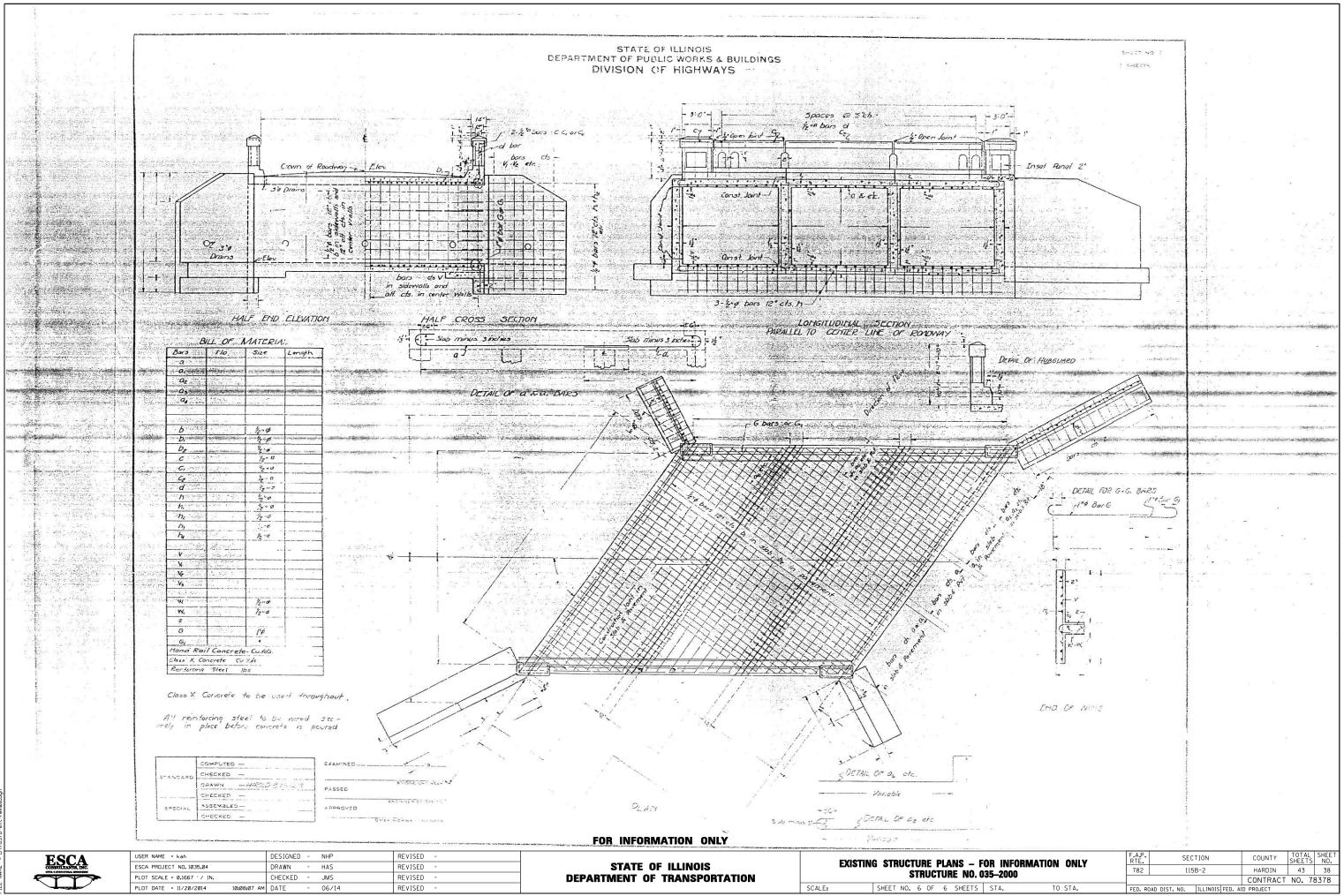
F.A. RT. 782 SEC 1.5A-BY HARDIN COUNTY STA 1035+43

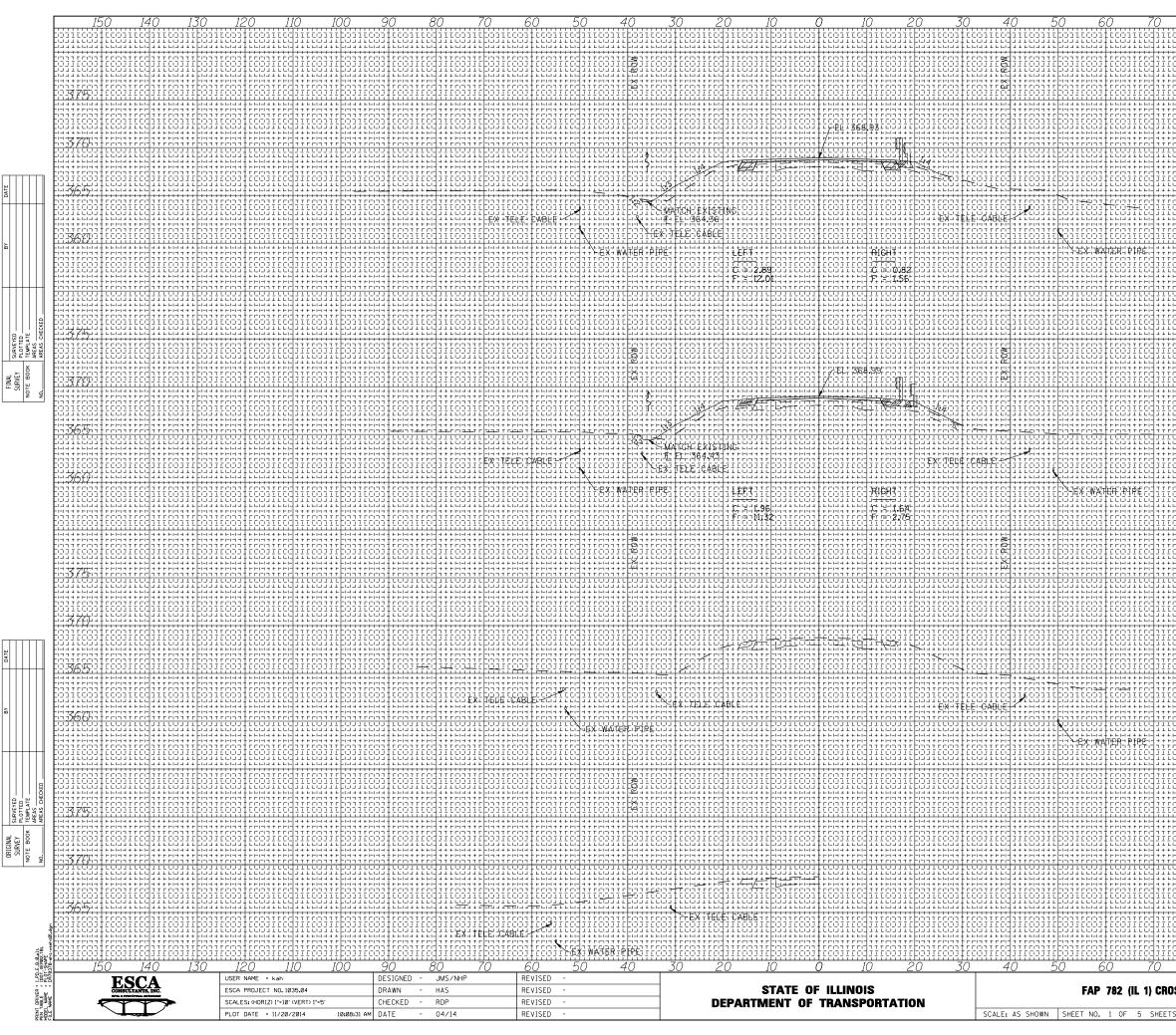
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-	035-2000		782	115	HARDIN	43	36	
. 035-2000			_			CONTRACT	NO. 78	3378
5	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



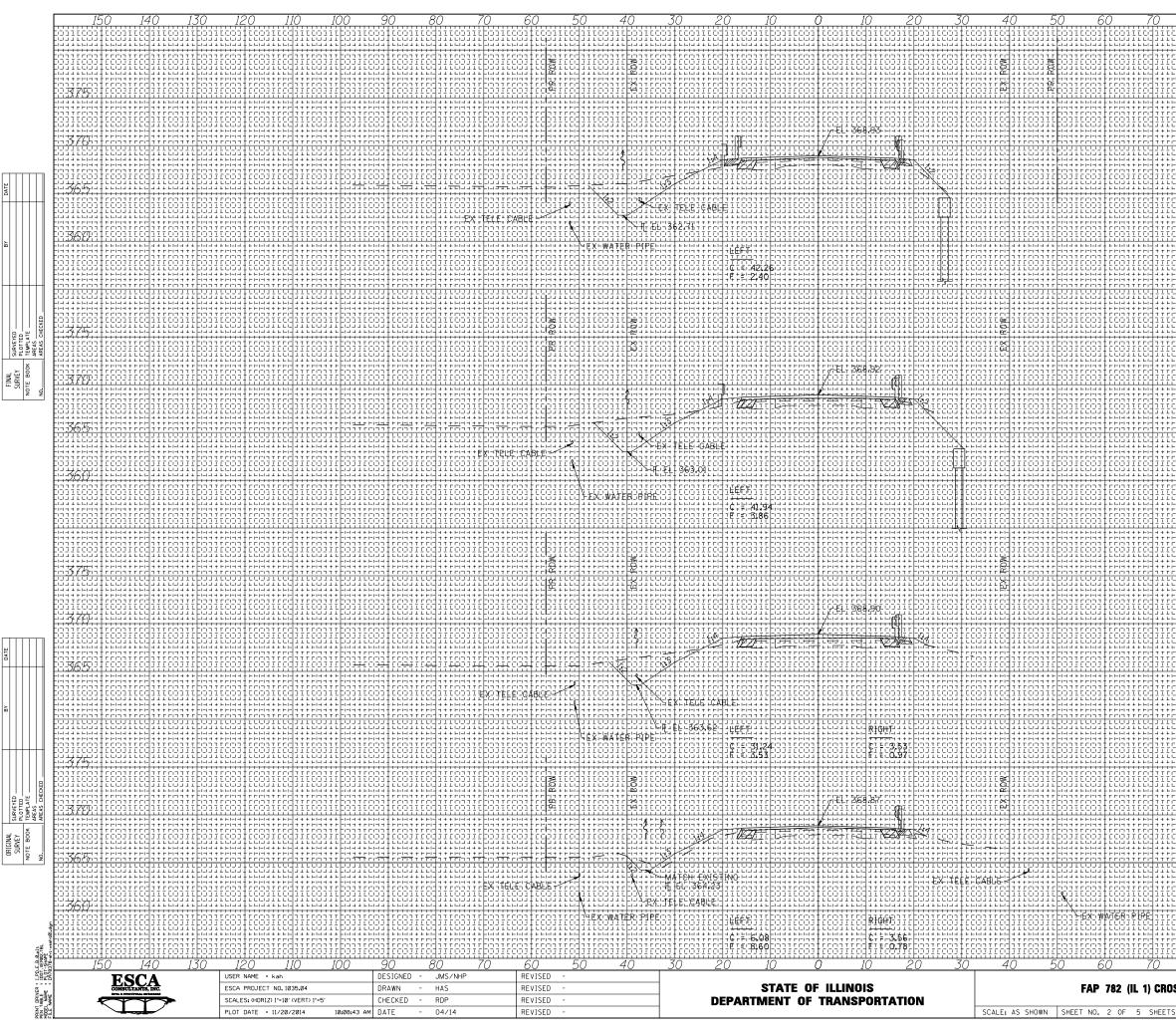
SHEET NO. 5 OF 6 SHEETS ST

**************************************	-01	RDIN 35	SHEET 33 5 SHI	NO. 5 Rets
2:6"				
Hollow structural s A STM, designation A- Tubing. All other steel shop A ASHTO M-I83 except Bolls, cap screws, a designation A - 307 exc which shall conform to All bolts, nuts, cap se accordence with AASI All posts, railing, ra after shop fabrication in Galvar red fabrication in Galvar red fabrication in Specifications, except a price per lineal foot far aft field drilled hold before erection. The lower partian of two coats of asphall po to the shall be lightened Specifications. The "4" h shall be lightened to a screws in boltom of pos	500 Grade posts and plai posts and an ind ruls shi AASHTO M rems, washe HTO M-232. Il splices, and accordance is accordance is s noted, and STEEL RA be post flai int conformi rems the gth bolts using in accordance using strength angli and	shall conform to B or A-501 Shi les shall conform igles shall conform to all conform to the strength bolts, - -64 rs and lock washe thor devices and an with AASHTO. M- with Section 508 shall be paid for hULING, TYPE S. voted with an appro- nge in contact with ng to Section 714 post and concrete ed to connect the re with Article 500, bolts connecting th given an additiona	ructural Steel to the requirem to AASHTO M-22 requirement of fauls and washer. rs shall be galac mailed and ASTM A of the Standar r at the contract wed zinc rich part of concrete shall OB Type B ar 6 x 4 x 3 angle 7.04 (g) (3) of the e angles to the at far turn. The	ents of 23, Grade 50, A STM s noted inized in Wanzed 1-385. d 1 unit receive place s to the Standard concrete
4"at rail splice 4"at rail splice 4"at at 2" Locknut 4" 4" 2" Locknut "6" + Holes 1" 3g* 2 T.T. SPLICE PL. PICAL	Sieei . <u>F</u>	Item Railing, Type S TYP	<u>MATERIAL</u> Unil C Lin FI E S RAILING - SEC. 1154 COUNTY 35 + 43	Wantily 110 9-BY
INFORMATION ONLY -2000	F.A.P. RTE. 782 FED. ROAD DIS	SECTION 115B-2 ST. NO. ILLINOIS FE	COUNTY HARDIN CONTRACT D. AID PROJECT	TOTAL SHEETSSHEET NO.4337NO.78378

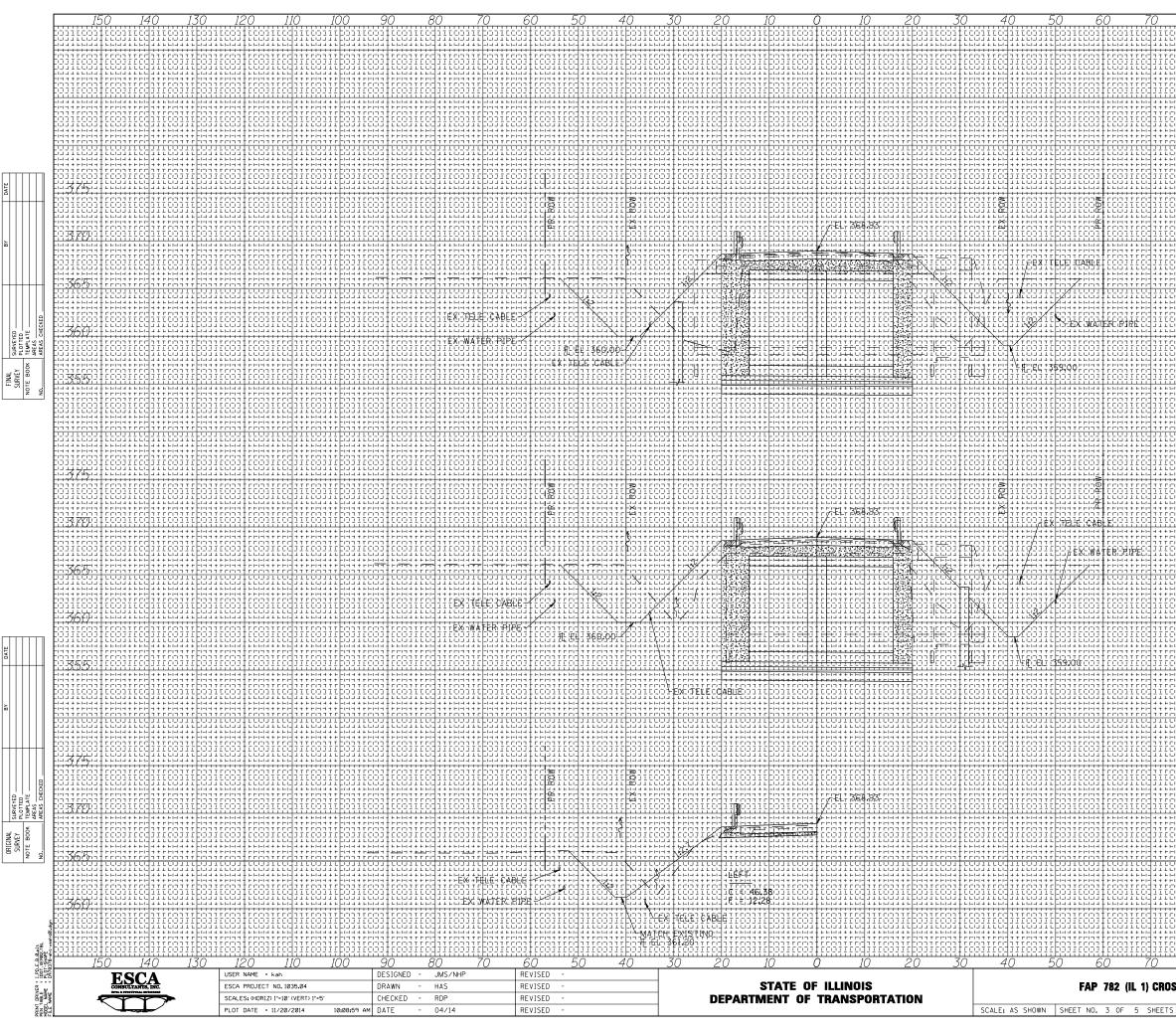




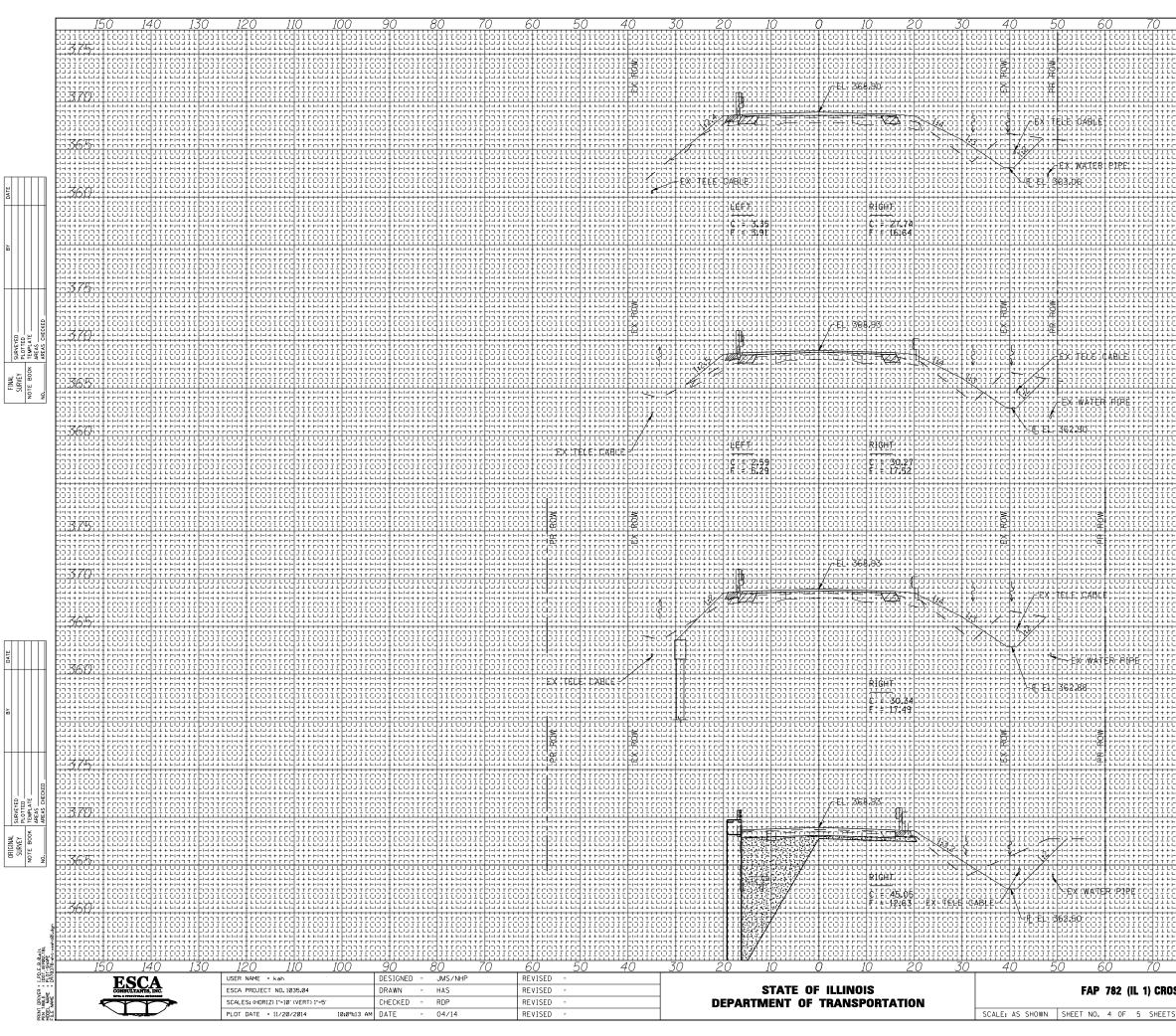
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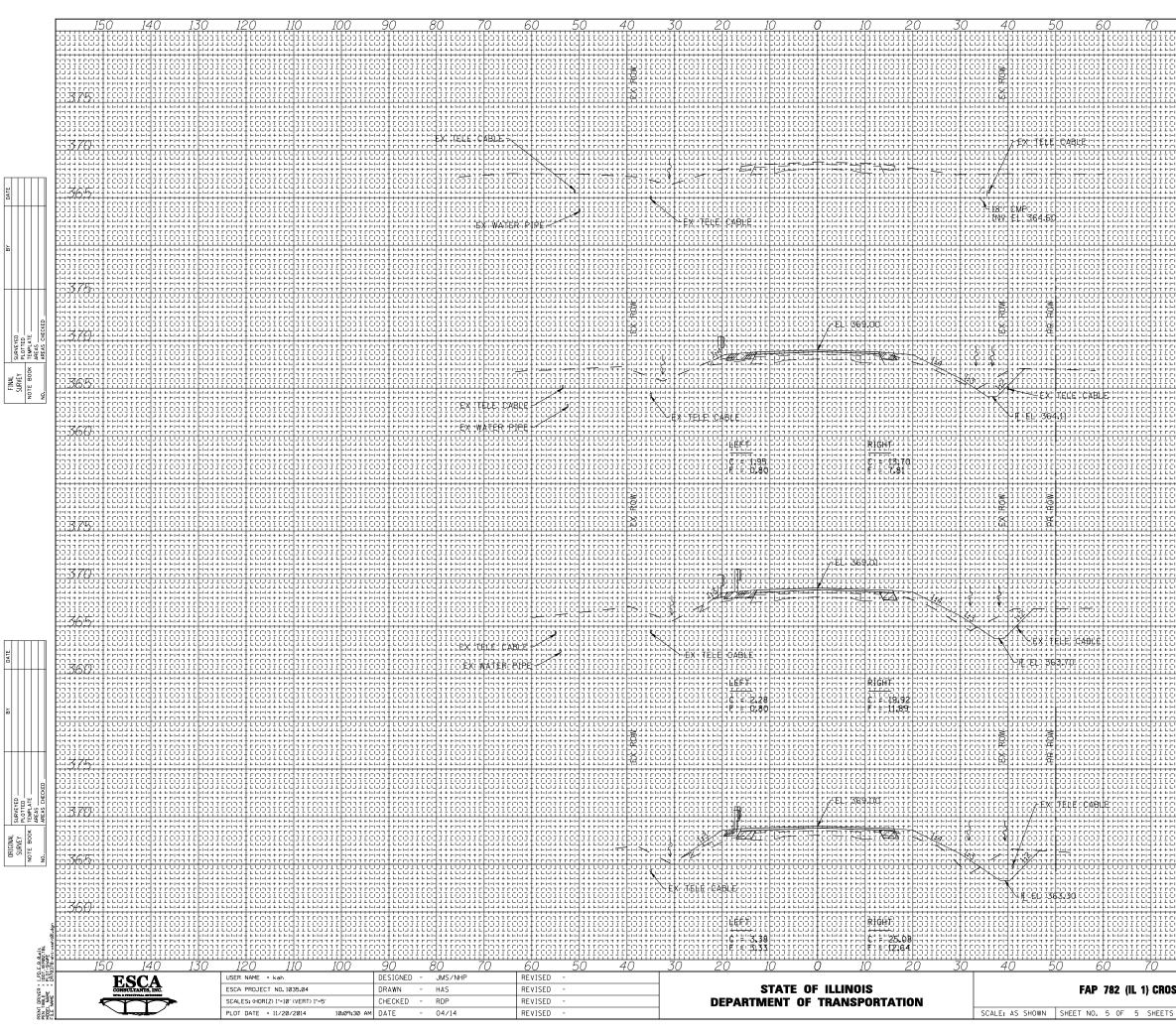
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