

INDEX OF SHEETS

03-09-2018 LETTING ITEM 051

- 1 COVER SHEET
- 2 HIGHWAY STANDARDS AND GENERAL NOTES
- 3-7 SUMMARY OF QUANTITIES
- 8-9 TYPICAL SECTIONS
- 10-13 SCHEDULE OF QUANTITIES
- 14-15 ALIGNMENT, TIES AND BENCHMARKS
- 16-17 F.A.P. RTE. 877 (IL RTE. 141) PLAN AND PROFILES
- 18-21 STAGE CONSTRUCTION PLANS
- 22-23 GUARDRAIL AND SHOULDER LAYOUT PLANS
- 24 WIDE LOAD DETOUR
- 25-26 EROSION AND SEDIMENT CONTROL PLANS
- 27-37 STRUCTURE PLANS (097-2016)
- 38-39 EXISTING STRUCTURE PLANS (097-0064)
- 40-50 STRUCTURE PLANS (097-2017)
- 51-52 EXISTING STRUCTURE PLANS (097-0029)
- 53-54 DISTRICT DETAILS
- 55-65 CROSS SECTIONS

FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 10-13

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON-URBAN)

ADT: 2,010 (2018)
 PV: 74.1%
 TRUCKS: 25.9%
 DESIGN SPEED: 55 MPH
 POSTED SPEED: 55 MPH

TOWNSHIPS

HERALDS PRAIRIE TOWNSHIP
 WHITE COUNTY

ASBURY TOWNSHIP
 GALLATIN COUNTY

DESIGN DESIGNATION : N.A.

COORDINATE SYSTEM : ILLINOIS COORDINATE SYSTEM, EAST ZONE

POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: DAVID PICHE
 PROJECT DESIGNER: MODJESKI AND MASTERS, INC.

CONTRACT NO. 78264

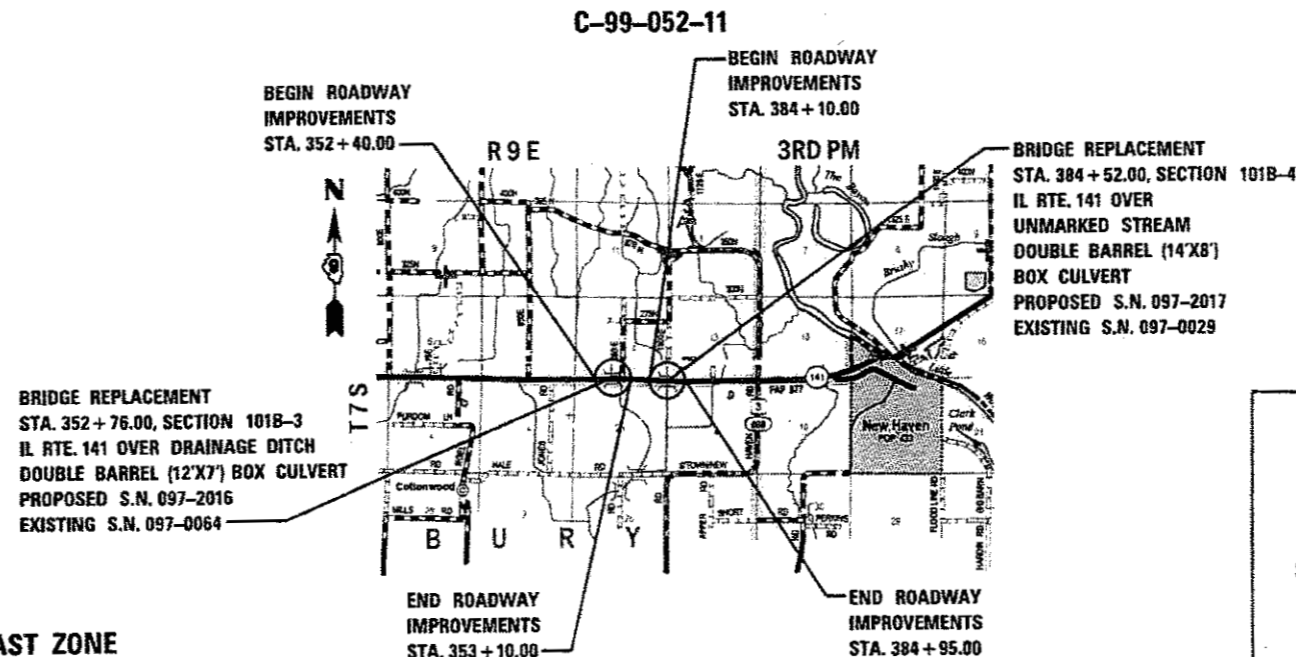


Jerilyn Hassard 11-20-17
 JERILYN M. HASSARD ILLINOIS P.E. DATE
 LICENSE EXPIRES 11/30/2019

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 877 (IL RTE. 141)
 SECTION 101B-3; 101B-4
 PROJECT STP-EIUW(830)
 STRUCTURE REPLACEMENTS OVER
 DRAINAGE DITCH AND UNNAMED STREAM
 WHITE COUNTY



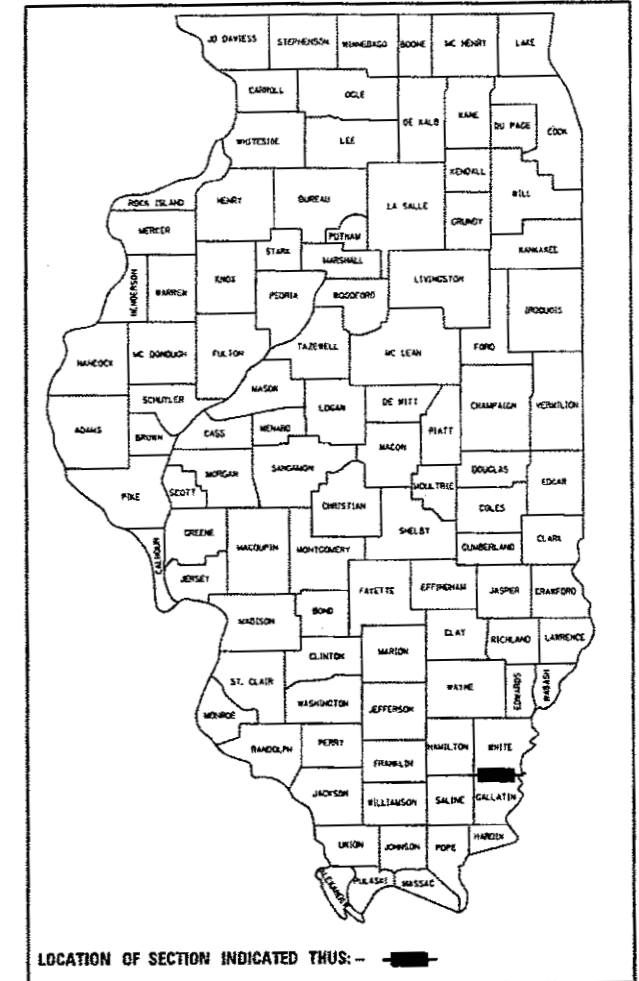
LOCATION MAP
 NOT TO SCALE

SECTION 101B-3
 GROSS LENGTH = 70.0 FT. = 0.013 MILE
 NET LENGTH = 70.0 FT. = 0.013 MILE

SECTION 101B-4
 GROSS LENGTH = 85.0 FT. = 0.016 MILE
 NET LENGTH = 85.0 FT. = 0.016 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BTT	101B-3; 101B-4	WHITE	65	1
ILLINOIS		CONTRACT NO. 78264		

D-99-041-11



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 4 2017
Jeffrey J. Keim
 REGION FIVE ENGINEER
Feb 20 2018
David P. Chieffo
 ENGINEER OF DESIGN AND ENVIRONMENT
Feb 20 2018
 DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS



HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
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
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, OR CONSTRUCTION LIMITS, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT-OF-WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

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.
RIPRAP	1.50 TONS/CU.YD.
EARTH	110 LBS / CU. FT.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

THE THICKNESS OF HOT MIX ASPHALT MIXTURE 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 HOT MIX ASPHALT MIXTURE IS PLACED.

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.

TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.

AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT.

THE REMOVAL OF BROKEN CONCRETE FROM EXISTING DITCHES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.

THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON TWO APPLICATIONS FOR THE PAVEMENT.

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

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, 1L-9.5L
AC/PG:	PG 64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIX COMPOSITION: (GRADATION)	1L-9.5L
FRICTION AGGREGATE	NONE
QUALITY MGMT PROGRAM	QC/QA




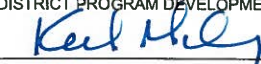



LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (LOWER LIFTS)
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS, 1L-19.0L
AC/PG:	PG 64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIX COMPOSITION: (GRADATION)	1L-19.0L
FRICTION AGGREGATE	NONE
QUALITY MGMT PROGRAM	QC/QA

LOCATION(S):	HOT-MIX ASPHALT BASE COURSE WIDENING
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70
AC/PG:	PG 64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIX COMPOSITION: (GRADATION)	1L-19.0mm
FRICTION AGGREGATE	NONE
QUALITY MGMT PROGRAM	QC/QA

COMMITMENTS:

NONE AS OF DECEMBER 15, 2017

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT NINE

PREPARED BY:		DISTRICT STUDIES & PLANS ENGINEER
EXAMINED BY:		DISTRICT LAND ACQUISITION ENGINEER
EXAMINED BY:		DISTRICT PROGRAM DEVELOPMENT ENGINEER
EXAMINED BY:		DISTRICT OPERATIONS ENGINEER
EXAMINED BY:		DISTRICT PROJECT IMPLEMENTATION ENGINEER
EXAMINED BY:		DISTRICT CONSTRUCTION ENGINEER
EXAMINED BY:		DISTRICT MATERIALS ENGINEER

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				BOX CULVERT 0010	BOX CULVERT 0010
				S.N. 097-2016	S.N. 097-2017
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	28	28	0
20200100	EARTH EXCAVATION	CU YD	430	250	180
20700220	POROUS GRANULAR EMBANKMENT	CU YD	737	273	464
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.375	0.375
25000350	SEEDING, CLASS 7.	ACRE	0.75	0.375	0.375
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	34	34
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	34	34
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	34	34
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.6	0.8	0.8
25100115	MULCH, METHOD 2	ACRE	1.50	0.75	0.75
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1154	865	289
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	76	38	38
28000305	TEMPORARY DITCH CHECKS	FOOT	94	84	10
28000400	PERIMETER EROSION BARRIER	FOOT	1608	787	821



USER NAME =	DESIGNED - JMH	REVISED -
DRAWN - PRC	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - 11/20/2017	REVISED -
PLOT DATE =		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3; 101B-4	WHITE	65	3
CONTRACT NO. 78264			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE
				BOX CULVERT	BOX CULVERT
				0010	0010
				S.N. 097-2016	S.N. 097-2017
28100109	STONE RIPRAP, CLASS A5	SQ YD	464	221	243
28200200	FILTER FABRIC	SQ YD	464	221	243
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	310	149	161
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	215	0	215
42000060	WELDED WIRE REINFORCEMENT	SQ YD	449	203	246
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	449	203	246
42001300	PROTECTIVE COAT	SQ YD	449	203	246
44000100	PAVEMENT REMOVAL	SQ YD	305	140	165
44004250	PAVED SHOULDER REMOVAL	SQ YD	37	17	20
48203029	HOT-MIX ASPHALT SHOULDERS, .8"	SQ YD	255	125	130
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	433	201	232
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	0	1
50200100	STRUCTURE EXCAVATION	CU YD	1340	532	808

14



USER NAME =	DESIGNED - JMH	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE =	CHECKED - JMH	REVISED -
	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES		
SCALE:	SHEET 2 OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3; 101B-4	WHITE	65	4
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE
				BOX CULVERT	BOX CULVERT
				0010	0010
				S.N. 097-2016	S.N. 097-2017
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	67110	26690	40420
50800515	BAR SPLICERS	EACH	330	154	176
50900200	STEEL RAILING, TYPE 2399	FOOT	120	56	64
51500100	NAME PLATES	EACH	2	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	727	727	0
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	379	0	379
54003000	CONCRETE BOX CULVERTS	CU YD	362.6	145.0	217.6
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	39	0	39
54213459	END SECTIONS 24"	EACH	2	0	2
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	250	125	125
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	4	4
63200310	GUARDRAIL REMOVAL	FOOT	1099	612	487
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	2.5	2.5

* SPECIALTY ITEM



USER NAME	DESIGNED - JMH	REVISED -
	DRAWN - PRC	REVISED -
PLOT SCALE	CHECKED - JMH	REVISED -
PLOT DATE	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3; 101B-4	WHITE	65	5
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE BOX CULVERT 0010	80% FEDERAL 20% STATE BOX CULVERT 0010
				S.N. 097-2016	S.N. 097-2017
67100100	MOBILIZATION	LSUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	0.5	0.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	12	6	6
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
70300100	SHORT TERM PAVEMENT MARKING	FOOT	280	136	144
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	94	46	48
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2862	1378	1484
70400100	TEMPORARY CONCRETE BARRIER	FOOT	712.5	350	362.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	687.5	325	362.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2

14

* SPECIALTY ITEM

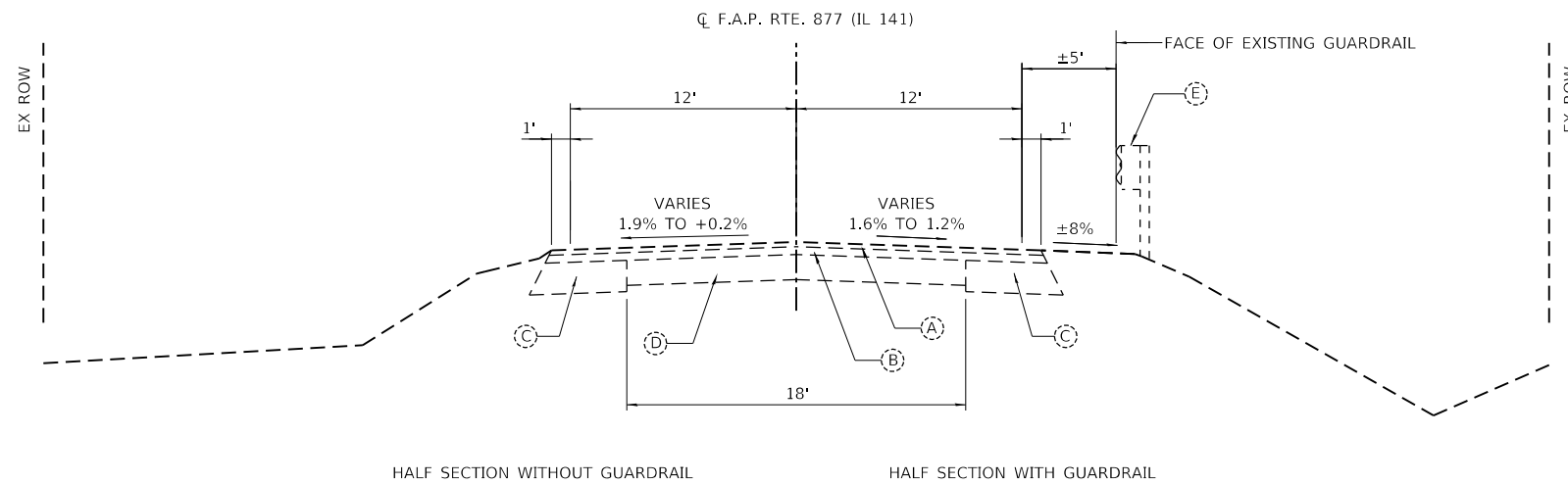
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL	80% FEDERAL
				20% STATE	20% STATE
				BOX CULVERT	BOX CULVERT
				0010	0010
				S.N. 097-2016	S.N. 097-2017
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	4	4
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2862	1378	1484
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20	10	10
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	8	8
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	10	10
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	2	1	1
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	238.9	111.7	127.2
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	956	460	496
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	28	14	14
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	956	460	496
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	117	54	63
Z0073500	TEMPORARY SUPPORT SYSTEM	LSUM	1	0.5	0.5
Ø Z0070600	TRAINEES	HR	500	500	
Ø Z0070604	TRAINEES TRAINING PROGRAM GRADUATE	HR	500	500	

13

Ø

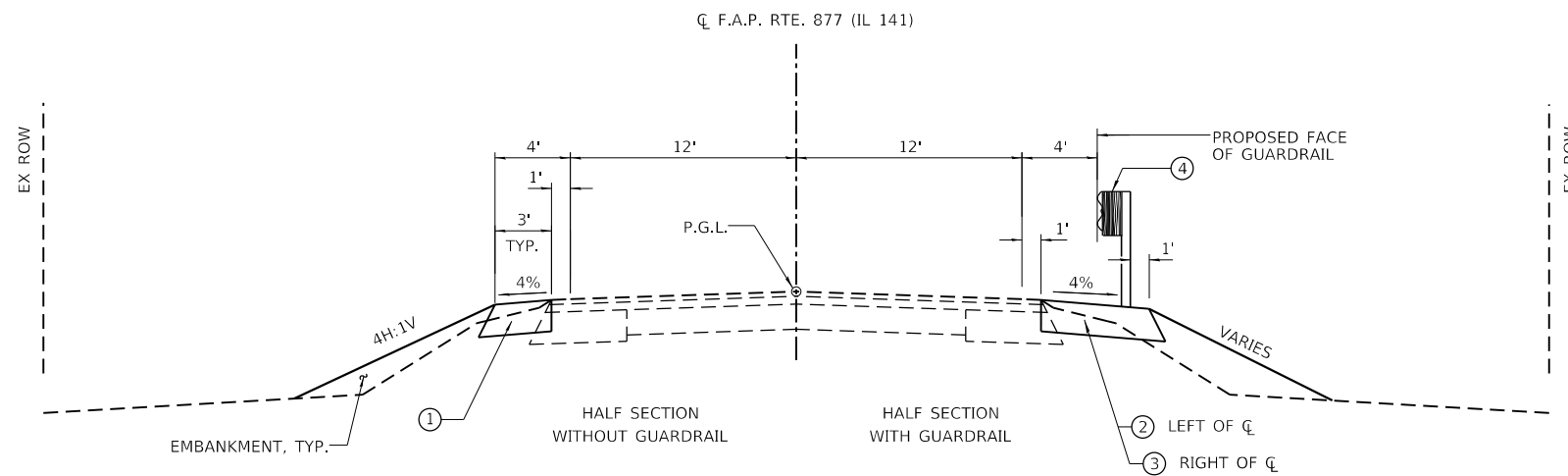
Ø

* SPECIALTY ITEM Ø 0042



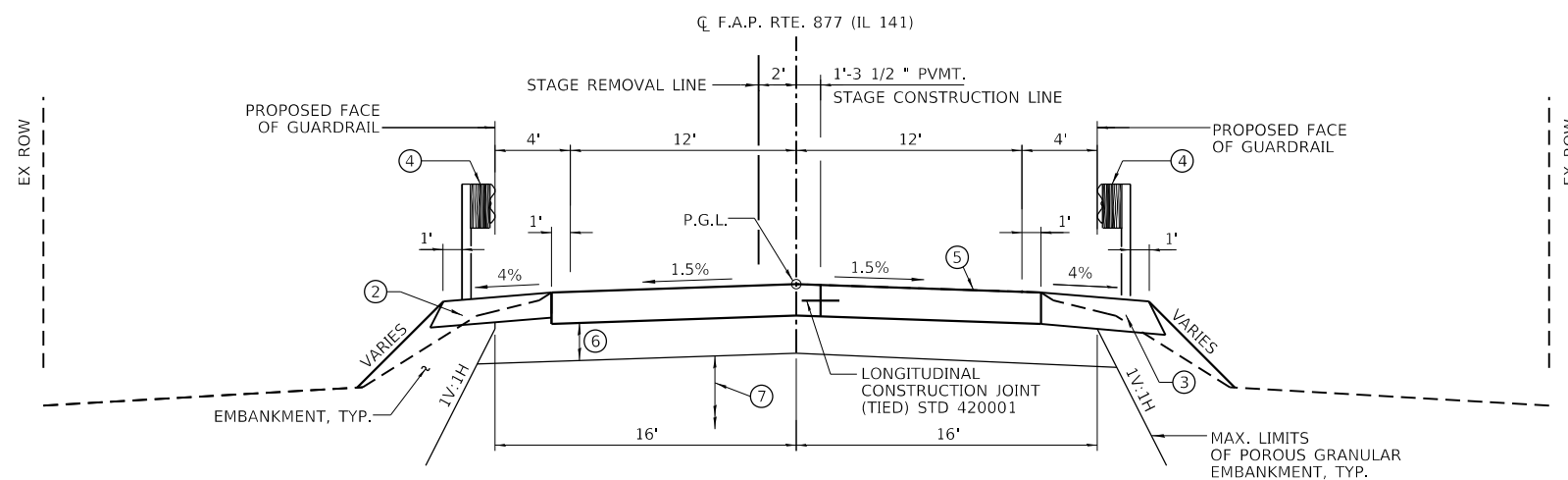
EXISTING TYPICAL SECTION

STA. 350+80.00 TO 354+80.00



PROPOSED TYPICAL SECTION

STA. 350+80.00 TO 352+40.00
STA. 353+10.00 TO 354+80.00



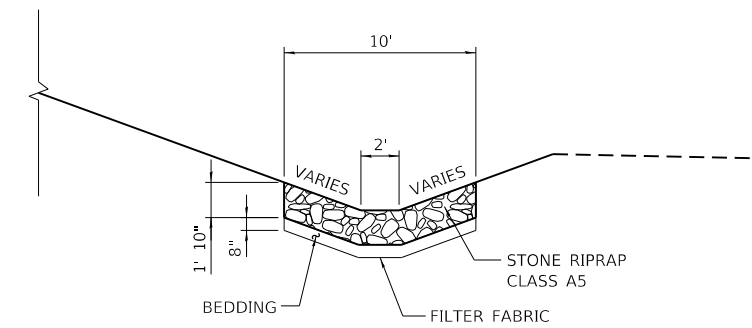
PROPOSED TYPICAL SECTION

STA. 352+40.00 TO 353+10.00

(SEE STRUCTURE PLANS FOR SECTION OVER CULVERT)

EXISTING LEGEND

- (A) BITUMINOUS CONCRETE SURFACE COURSE, CL. 1, 1 1/2"
- (B) BITUMINOUS CONCRETE BINDER COURSE, 2 1/2"
- (C) BASE COURSE WIDENING, 10"
- (D) CONCRETE PAVEMENT (9", 6", 9")
- (E) GUARDRAIL



RIPRAP DITCH SECTION

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
- (2) HOT-MIX ASPHALT SHOULDERS, 8"
- (3) HOT-MIX ASPHALT SHOULDERS, 10"
- (4) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS, TRAFFIC BARRIER TERMINAL, TYPE 6A, OR TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 10" WITH WELDED WIRE REINFORCEMENT
- (6) 1' MIN. CA-6 OR CA-10, QUANTITY INCLUDED IN POROUS GRANULAR EMBANKMENT
- (7) POROUS GRANULAR EMBANKMENT

NOTE:

SEE EROSION CONTROL AND CROSS SECTION SHEETS FOR DITCH SECTION LOCATIONS, ELEVATIONS, AND VARIABLE EMBANKMENT SLOPES.



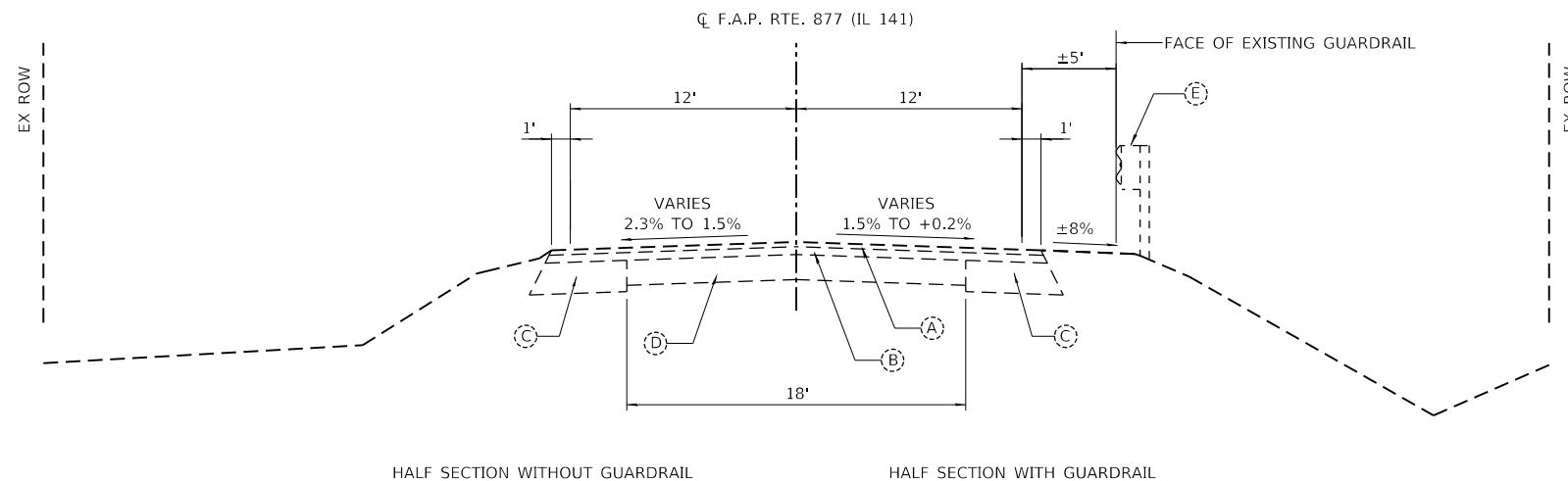
USER NAME = \$USERS	DESIGNED - LKD/JMH	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - AEC	REVISED -
PLOT DATE = 11/20/2017	CHECKED - JMH	REVISED -
	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 097-2016

SCALE: SHEET 1 OF 1 SHEETS STA. 350+80.00 TO STA. 354+80.00

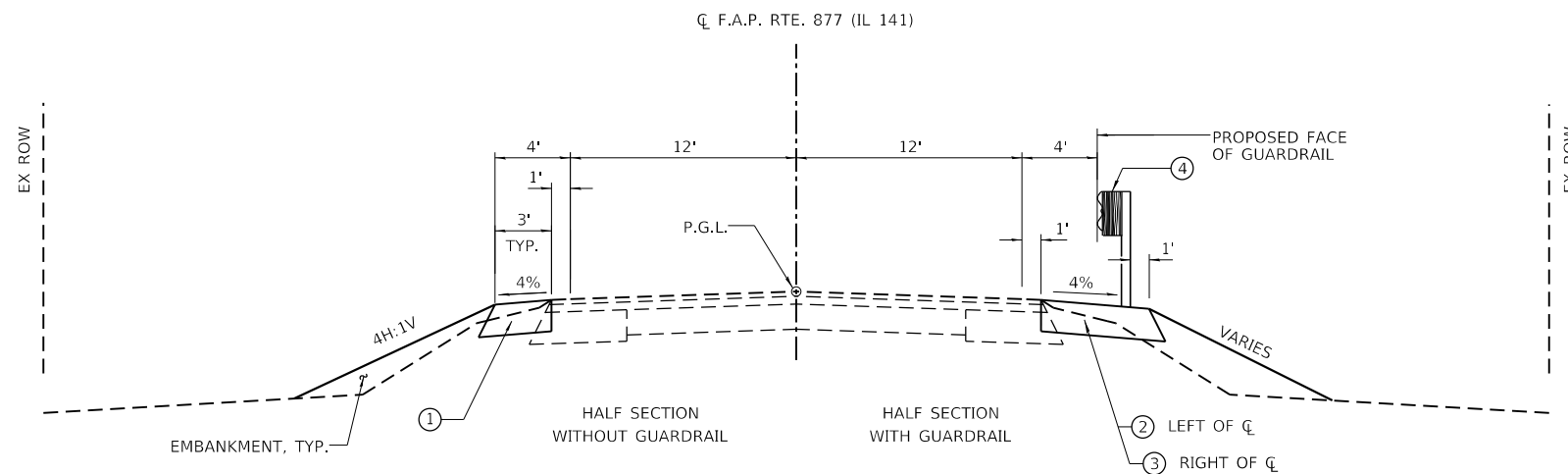
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	8
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



HALF SECTION WITHOUT GUARDRAIL HALF SECTION WITH GUARDRAIL

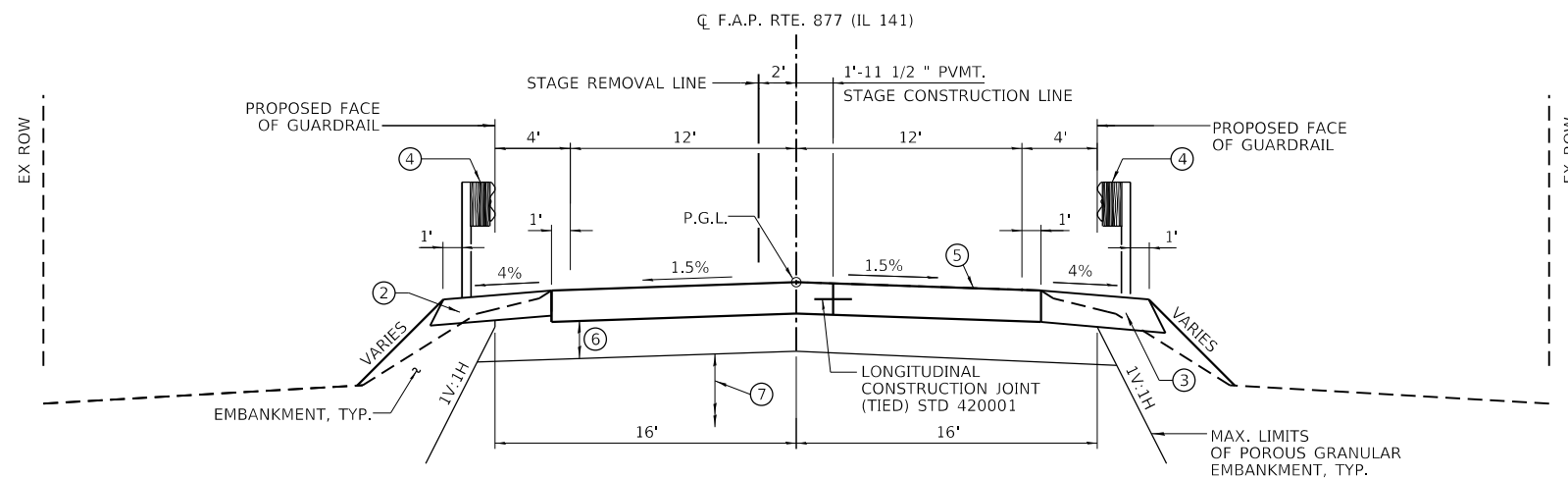
EXISTING TYPICAL SECTION

STA. 382+27.50 TO 386+57.00



PROPOSED TYPICAL SECTION

STA. 382+27.50 TO 384+10.00
STA. 384+95.00 TO 386+57.00



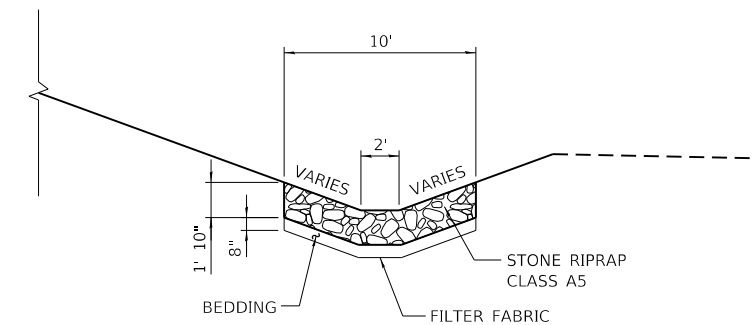
PROPOSED TYPICAL SECTION

STA. 384+10.00 TO 384+95.00

(SEE STRUCTURE PLANS FOR SECTION OVER CULVERT)

EXISTING LEGEND

- (A) BITUMINOUS CONCRETE SURFACE COURSE, CL. 1, 1 1/2"
- (B) BITUMINOUS CONCRETE BINDER COURSE, 2 1/2"
- (C) BASE COURSE WIDENING, 10"
- (D) CONCRETE PAVEMENT (9", 6", 9")
- (E) GUARDRAIL



RIPRAP DITCH SECTION

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
- (2) HOT-MIX ASPHALT SHOULDERS, 8"
- (3) HOT-MIX ASPHALT SHOULDERS, 10"
- (4) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS, TRAFFIC BARRIER TERMINAL, TYPE 6A, OR TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- (5) PORTLAND CEMENT CONCRETE PAVEMENT 10" WITH WELDED WIRE REINFORCEMENT
- (6) 1' MIN. CA-6 OR CA-10, QUANTITY INCLUDED IN POROUS GRANULAR EMBANKMENT
- (7) POROUS GRANULAR EMBANKMENT

NOTE:

SEE EROSION CONTROL AND CROSS SECTION SHEETS FOR DITCH SECTION LOCATIONS, ELEVATIONS, AND VARIABLE EMBANKMENT SLOPES.



USER NAME = \$USERS	DESIGNED - LKD/JMH	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - AEC	REVISED -
PLOT DATE = 11/20/2017	CHECKED - JMH	REVISED -
	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 097-2017

SCALE: SHEET 1 OF 1 SHEETS STA. 382+27.50 TO STA. 386+57.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	9
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE

			SEEDING CL 2A (ACRE)	SEEDING CL 7 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	AGRICULTURAL GROUND LIMESTONE (TON)	TEMPORARY EROSION CONTROL SEEDING (POUND)
LOCATION	STATION	STATION								
LEFT SIDE	350+45.00	354+90.00	0.19	0.19	17	17	17	0.38	0.4	19
RIGHT SIDE	350+45.00	354+70.00	0.19	0.19	17	17	17	0.38	0.4	19
LEFT SIDE	382+22.50	386+67.00	0.19	0.19	17	17	17	0.38	0.4	19
RIGHT SIDE	382+22.50	386+67.00	0.19	0.19	17	17	17	0.38	0.4	19
TOTALS			0.75	0.75	68	68	68	1.50	1.6	76

EARTHWORK

		FOR INFORMATION ONLY					
STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)	STRUCTURE EXCAVATION (CU YD)	STRUCTURE EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)
350+45.00	354+90.00	250	188	175	13		
382+22.50	386+67.00	180	135	260	-125		
352+40.00	353+10.00				399	532	399
384+10.00	384+95.00				606	808	606
TOTALS		430	323		893		

EROSION CONTROL

LOCATION	STATION	OFFSET	STATION	OFFSET	PERIMETER EROSION BARRIER (FOOT)	HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	FILTER FABRIC (SQ YD)	STONE DUMPED RIPRAP CLASS A5 (SQ YD)
LEFT SIDE	350+45.00	34'	352+54.22	39'	210			
RIGHT SIDE	350+45.00	33'	352+54.22	36.5'	210			
LEFT SIDE	352+97.78	39'	354+90.00	28'	194			
RIGHT SIDE	352+97.78	38'	354+70.00	29'	173			
LEFT SIDE	351+00.00		352+60.63			329		
RIGHT SIDE	351+00.00		352+60.63			293		
LEFT SIDE	352+91.36		353+44.16			73		
RIGHT SIDE	352+91.36		354+00.00			170		
LEFT SIDE	352+40.00		353+10.00				114	114
RIGHT SIDE	352+40.00		353+10.00				107	107
LEFT SIDE	382+22.50	27'	384+26.27	39'	210			
RIGHT SIDE	382+21.00	20'	384+26.27	37'	231			
LEFT SIDE	384+77.73	47'	386+67.00	32'	190			
RIGHT SIDE	384+77.73	40'	386+67.00	34'	190			
LEFT SIDE	384+10.00		384+33.93		21			
RIGHT SIDE	384+18.00		384+33.93		9			
LEFT SIDE	384+70.07		385+50.00		166			
RIGHT SIDE	384+70.07		385+50.00		93			
LEFT SIDE	384+10.00		384+95.00				132	132
RIGHT SIDE	384+18.00		384+95.00				111	111
TOTALS					1608	1154	464	464

DITCH CHECKS

			TEMPORARY DITCH CHECKS (FOOT)
LOCATION	STATION	OFFSET	
LEFT SIDE	351+00.00	32.50'	12
	352+00.00	34.20'	10
	352+40.00	32.30'	10
	353+10.00	30.60'	10
RIGHT SIDE	351+40.00	33.30'	10
	352+40.00	30.90'	10
	353+10.00	29.40'	10
	354+10.00	29.60'	12
LEFT SIDE	384+95.00	43.00'	10
TOTALS			94



USER NAME = jmhassard	DESIGNED - JMH	REVISED -
PLOT SCALE = 2,000' = 1" IN.	DRAWN - PRC	REVISED -
PLOT DATE = 11/20/2017	CHECKED - RLM	REVISED -
	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 877	SECTION 101B-3;101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 10
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

PAVEMENT			POROUS GRANULAR EMBANKMENT (CU YD)	HMA BASE COURSE WIDENING 10" (SQ YD)	AGGREGATE SURFACE COURSE TYPE A 6" (SQ YD)	WELDED WIRE REINFORCEMENT (SQ YD)	PORTLAND CEMENT CONCRETE PAVEMENT 10" (SQ YD)	PROTECTIVE COAT (SQ YD)	HMA SHOULDERS 8" (SQ YD)	HMA SHOULDERS 10" (SQ YD)
LOCATION	STATION	STATION								
IL RTE. 141	352+45.42	353+06.52	273							
LEFT SIDE	350+80.00	352+65.00		62						
LEFT SIDE	352+87.00	354+80.00		65						
RIGHT SIDE	353+95.69	354+60.00		22						
IL RTE. 141	352+40.00	353+10.00				203	203	203		
LEFT SIDE	351+56.31	354+58.19						125		
RIGHT SIDE	350+93.81	353+95.69							201	
IL RTE. 141	384+15.09	384+88.93	464							
LEFT SIDE	382+32.00	384+38.00		69						
LEFT SIDE	384+66.00	386+57.00		64						
RIGHT SIDE	385+73.69	386+57.00		28						
RIGHT SIDE	382+35.77	382+64.26			215					
IL RTE. 141	384+10.00	384+95.00				246	246	246		
LEFT SIDE	383+30.31	386+36.19						130		
RIGHT SIDE	382+27.50	385+73.69								232
TOTALS			737	310	215	449	449	449	255	433

TEMPORARY PAVEMENT MARKING SCHEDULE						
STATION	STATION	SHORT TERM PAVEMENT MARKING (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY PAVEMENT MARKING LINE 4" (FOOT)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)	REMARKS
349+39.00	356+24.20	68	23			SHORT TERM CENTER LINE
349+39.00	356+24.20	68	23			SHORT TERM CENTER LINE
350+07.00	355+89.00			582	194	SINGLE WHITE EOP LEFT SIDE
349+39.00	356+24.20			180	60	SKIP-DASH YELLOW CENTER LINE
349+49.00	355+64.20			616	206	SINGLE WHITE EOP RIGHT SIDE
381+02.50	388+36.50	72	24			SHORT TERM CENTER LINE
381+02.50	388+36.50	72	24			SHORT TERM CENTER LINE
381+62.50	388+26.50			664	222	SINGLE WHITE EOP LEFT SIDE
381+02.50	388+36.50			190	64	SKIP-DASH YELLOW CENTER LINE
381+12.50	387+41.90			630	210	SINGLE WHITE EOP RIGHT SIDE
TOTALS		280	94	2862	956	

PAVEMENT REMOVALS				
LOCATION			PAVEMENT REMOVAL (SQ YD)	PAVED SHOULDER REMOVAL (SQ YD)
IL RTE. 141	352+40.00	352+65.00	73	
IL RTE. 141	352+87.00	353+10.00	67	
LEFT SIDE	352+40.00	352+65.00		9
LEFT SIDE	352+87.00	353+10.00		8
IL RTE. 141	384+10.00	384+38.00	81	
IL RTE. 141	384+66.00	384+95.00	84	
LEFT SIDE	384+10.00	384+38.00		10
LEFT SIDE	384+66.00	384+95.00		10
TOTALS			305	37

PAINT PAVEMENT MARKING SCHEDULE						
STATION	STATION	PAVEMENT MARKING REMOVAL GRINDING (SQ FT)	PAINT PAVEMENT MARKING LINE 4" (FOOT)	RAISED REFLECTIVE PAV MARKER REMOVAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	REMARKS
350+07.00	355+89.00	194	582			SINGLE WHITE EOP LEFT SIDE
349+39.00	356+24.20	60	180	10	10	SKIP-DASH YELLOW CENTER LINE
349+49.00	355+64.20	206	616			SINGLE WHITE EOP RIGHT SIDE
381+62.50	388+26.50	222	664			SINGLE WHITE EOP LEFT SIDE
381+02.50	388+36.50	64	190	10	10	SKIP-DASH YELLOW CENTER LINE
381+12.50	387+41.90	210	630			SINGLE WHITE EOP RIGHT SIDE
TOTALS		956	2862	20	20	

GUARDRAIL SCHEDULE					STEEL PLATE BEAM GUARDRAIL TYPE A, 9' POSTS (FOOT)	TRAFFIC BARRIER TERMINAL TYPE 6A (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	GUARDRAIL REMOVAL (FOOT)	TERMINAL MARKER DIRECT APPLIED (EACH)	GUARDRAIL MARKER TYPE A (EACH)
LOCATION	STATION	OFFSET	STATION	OFFSET						
RIGHT SIDE	351+61.81		352+24.31		62.5					
LEFT SIDE	353+27.69		353+90.19		62.5					
	352+24.31		352+64.00			1				
RIGHT SIDE	352+88.00		353+27.69			1				
	352+24.31		352+64.00			1				
	352+88.00		353+27.69			1				
LEFT SIDE	351+11.81		351+61.81				1			
	353+27.69		353+77.69				1			
RIGHT SIDE	351+74.31		352+24.31				1			
	353+90.19		354+40.19				1			
LEFT SIDE	351+12.00	17.57	352+64.81	17.50			153			
	352+87.02	17.65	354+40.11	17.51			153			
RIGHT SIDE	351+12.47	17.86	352+64.50	17.60			153			
	352+87.45	17.61	354+39.46	18.14			153			
LEFT SIDE	351+11.81							1		
	353+77.69							1		
RIGHT SIDE	351+74.31							1		
	354+40.19							1		
RIGHT SIDE	351+11.81		353+77.69						4	
LEFT SIDE	351+74.31		354+40.19						4	
RIGHT SIDE	383+35.81		383+98.31		62.5					
LEFT SIDE	385+05.69		385+68.19		62.5					
	383+98.31		384+38.00			1				
RIGHT SIDE	384+66.00		385+05.69			1				
	383+98.31		384+38.00			1				
	384+66.00		385+05.69			1				
LEFT SIDE	382+85.81		383+35.81				1			
	385+05.69		385+55.69				1			
	383+48.31		383+98.31				1			
RIGHT SIDE	385+68.19		386+18.19				1			
	382+85.23	16.00	384+37.38	16.00			153			
LEFT SIDE	384+66.26	17.47	386+18.80	17.74			153			
	384+23.86	37.64	384+37.86	17.29			28			
RIGHT SIDE	384+66.31	17.53	386+18.75	18.16			153			
	382+85.81							1		
LEFT SIDE	385+55.69							1		
	383+48.31							1		
RIGHT SIDE	386+18.19							1		
RIGHT SIDE	382+85.81		385+55.69						4	
LEFT SIDE	383+48.31		386+18.19						4	
TOTALS					250	8	8	1099	8	16



USER NAME = \$USERS	DESIGNED - JMH	REVISED -
	DRAWN - PRC	REVISED -
PLOT SCALE = \$\$SCALE\$	CHECKED - RLM	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3;101B-4	WHITE	65	12
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

SIGN PANEL REMOVAL			REMOVE SIGN PANEL ASSEMBLY TYPE A (EACH)
LOCATION	STATION	OFFSET	
RIGHT SIDE	352+08.00	18.9'	1
RIGHT SIDE	352+42.00	18.1'	1
LEFT SIDE	353+06.00	18.2'	1
LEFT SIDE	353+36.00	20.1'	1
RIGHT SIDE	384+31.00	22.0'	1
RIGHT SIDE	384+33.00	18.7'	1
LEFT SIDE	384+83.00	18.2'	1
LEFT SIDE	384+86.00	19.7'	1
TOTAL			8

TREE REMOVAL			TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
LOCATION			
ROUTE	STATION	OFFSET	
IL RTE. 141	352+66.23	31.40' LT.	28
TOTAL			28

DRAINAGE STRUCTURE SCHEDULE						PIPE CULVERTS CLASS D TYPE 1, 24" (FOOT)	END SECTIONS 24" (EACH)
LOCATION							
ROUTE	STATION	OFFSET	STATION	OFFSET	NOTE		
IL RTE. 141	382+30.50	80' RT.	382+69.50	80' RT.	PR FIELD ENTRANCE	39	2
TOTAL						39	2



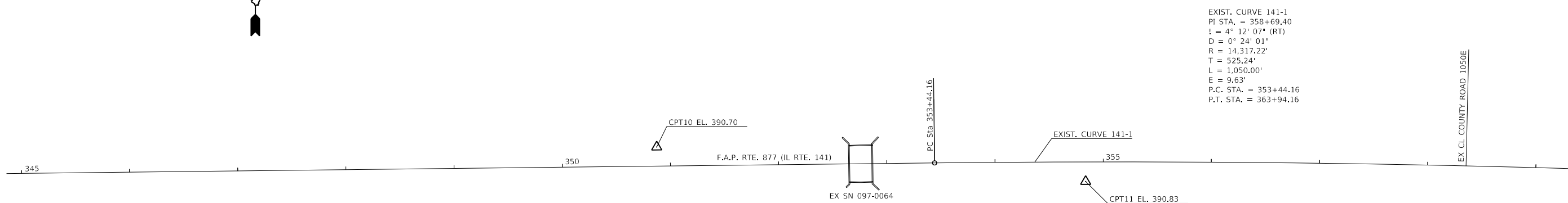
USER NAME = \$USERS	DESIGNED - JMH	REVISED -
	DRAWN - PRC	REVISED -
PLOT SCALE = \$\$SCALE\$	CHECKED - RLM	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

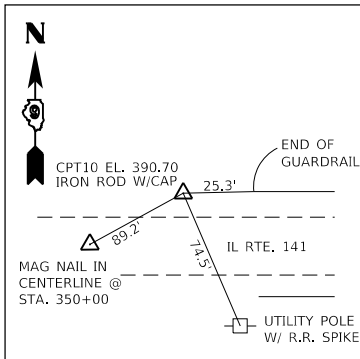
SCHEDULE OF QUANTITIES

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

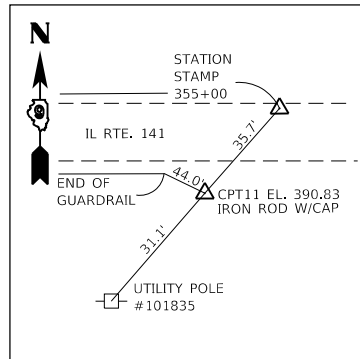
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3;101B-4	WHITE	65	13
CONTRACT NO. 78264				
ILLINOIS		FED. AID PROJECT		



EXIST. CURVE 141-1
 PI STA. = 358+69.40
 ! = 4° 12' 07" (RT)
 D = 0° 24' 01"
 R = 14,317.22'
 T = 525.24'
 L = 1,050.00'
 E = 9.63'
 P.C. STA. = 353+44.16
 P.T. STA. = 363+94.16



CONTROL POINT #10
 STA. 350+87.44, 17.70' LT.
 N=452053.6050
 E=1027284.0860
 ELEV=390.70



CONTROL POINT #11
 STA. 354+83.77, 18.14' RT.
 N=452021.6610
 E=1027680.6340
 ELEV=390.83

BENCHMARK:
 BM 108 - CHISELED SQUARE
 IN SOUTHWEST WINGWALL OF
 SN 097-0064, ELEV. 391.31



USER NAME = \$USERS	DESIGNED - JMH	REVISED -
	DRAWN - AEC	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

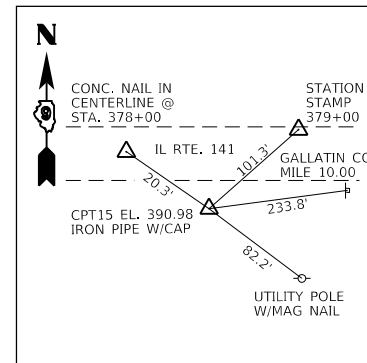
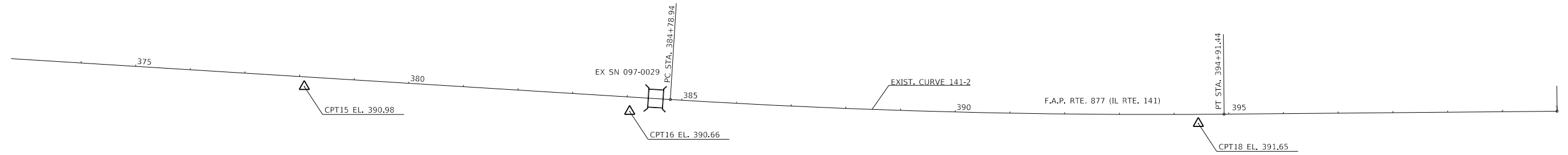
**ALIGNMENT, TIES AND BENCHMARKS
 STRUCTURE NO. 097-2016**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

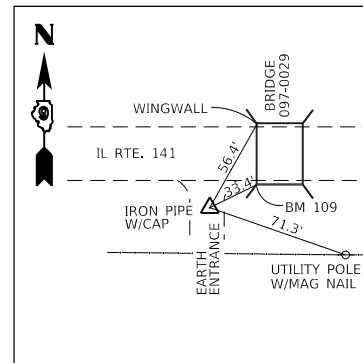
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78264	



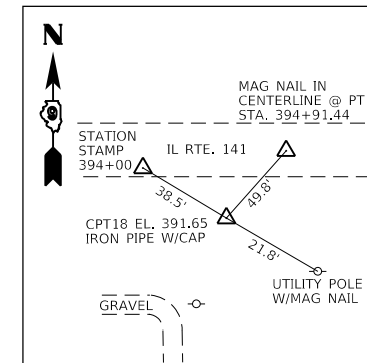
EXIST. CURVE 141-2
 PI STA. = 389+85.40
 I = 4° 02' 43" (LT)
 D = 0° 23' 58"
 R = 14,340.95'
 T = 506.46'
 L = 1,012.50'
 E = 8.94'
 P.C. STA. = 384+78.94
 P.T. STA. = 394+91.44



CONTROL POINT #15
 STA. 378+09.80, 17.78' RT.
 N=451907.5060
 E=1029999.3780
 ELEV=390.98



CONTROL POINT #16
 STA. 384+06.12, 28.24' RT.
 N=451860.2360
 E=1030593.9160
 ELEV=390.66



CONTROL POINT #18
 STA. 394+44.30, 16.46' RT.
 N=451840.3150
 E=1031633.2320
 ELEV=391.65

BENCHMARK:
 BM 109 - CHISELED SQUARE
 IN SOUTHWEST WINGWALL OF
 SN 097-0029, ELEV. 391.40.



USER NAME = \$USERS	DESIGNED - JMH	REVISED -
	DRAWN - AEC	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

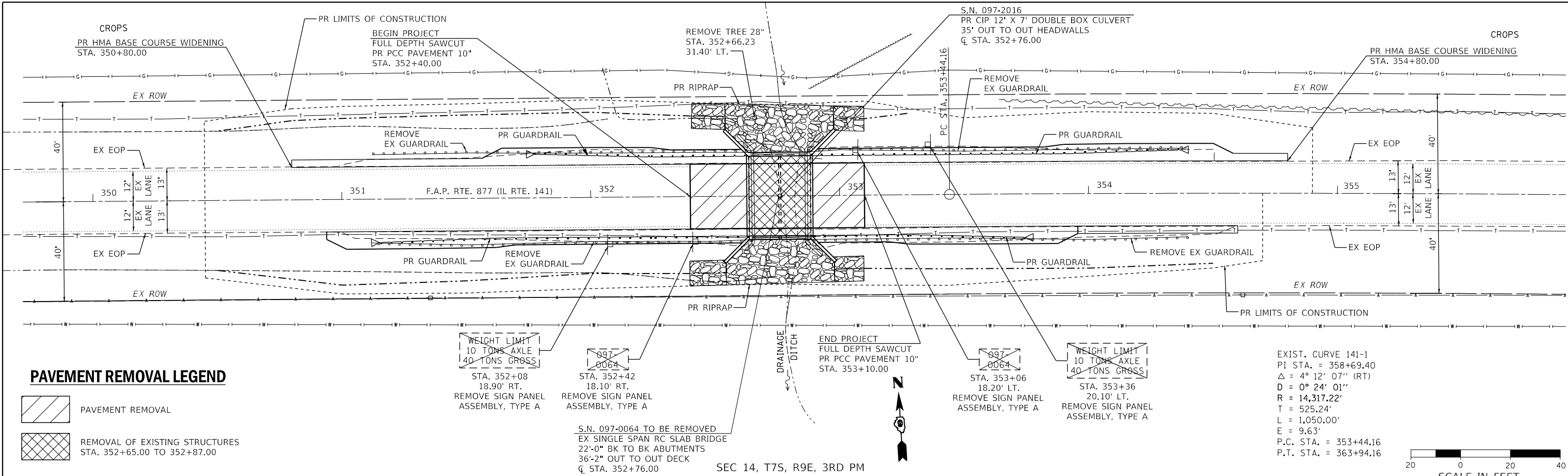
ALIGNMENT, TIES AND BENCHMARKS
 STRUCTURE NO. 097-2017

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	15
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	

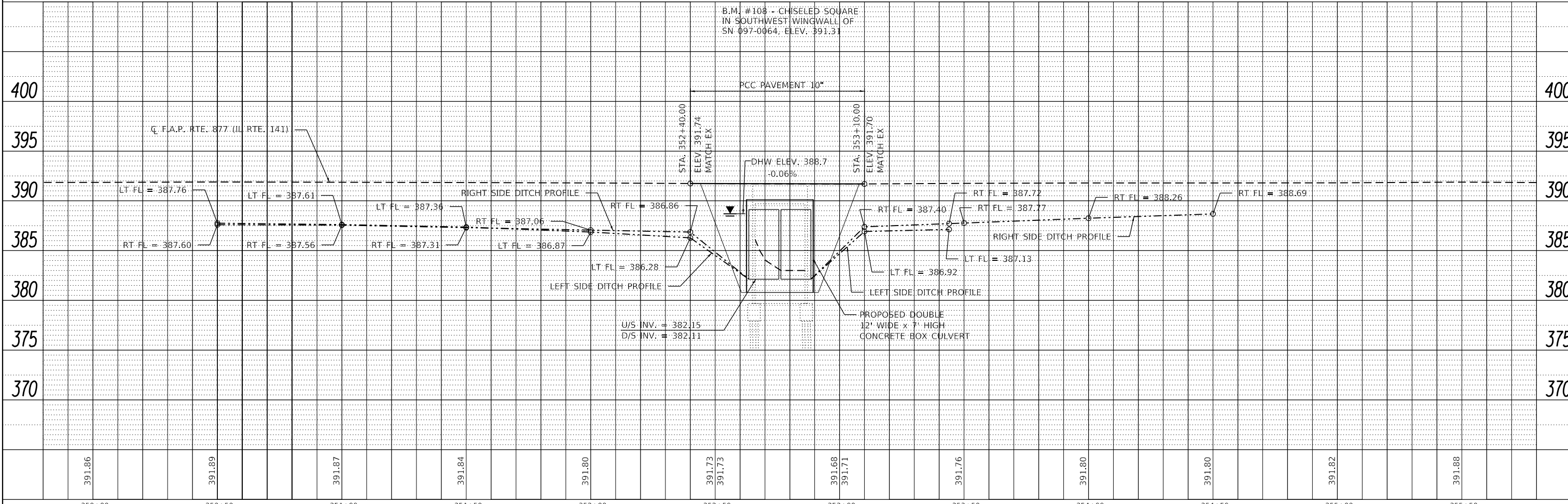
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	



PAVEMENT REMOVAL LEGEND

- PAVEMENT REMOVAL
- REMOVAL OF EXISTING STRUCTURES
STA. 352+65.00 TO 352+87.00

EXIST. CURVE 141-1
 PI STA. = 358+69.40
 $\Delta = 4^\circ 12' 07''$ (RT)
 $D = 0^\circ 24' 01''$
 $R = 14,317.22'$
 $T = 525.24'$
 $L = 1,050.00'$
 $E = 9.63'$
 P.C. STA. = 353+44.16
 P.T. STA. = 363+94.16



350+00	350+50	351+00	351+50	352+00	352+50	353+00	353+50	354+00	354+50	355+00	355+50		
391.86	391.89	391.87	391.84	391.80	391.73	391.73	391.68	391.71	391.76	391.80	391.80	391.82	391.88



USER NAME = *USER*	DESIGNED - LKD	REVISED -
	DRAWN - LKD/AEC	REVISED -
PLOT SCALE = *SCALE*	CHECKED - JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

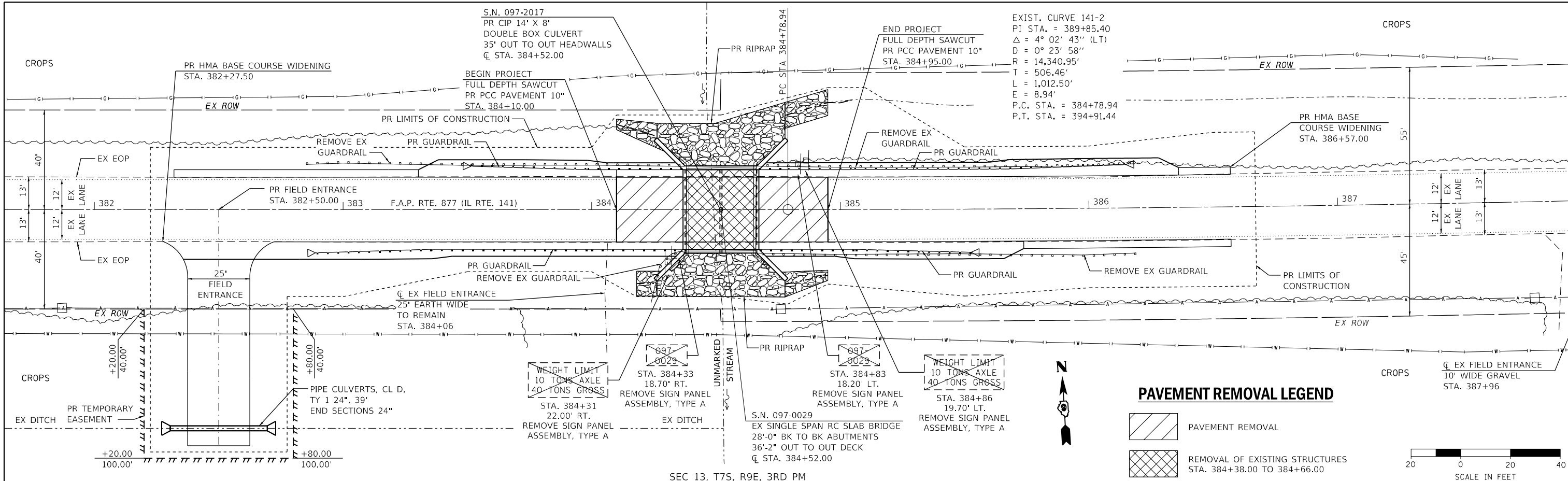
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE. 877 (IL RTE. 141) PLAN AND PROFILE		STRUCTURE NO. 097-2016	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS	STA. 350+00	TO STA. 355+50

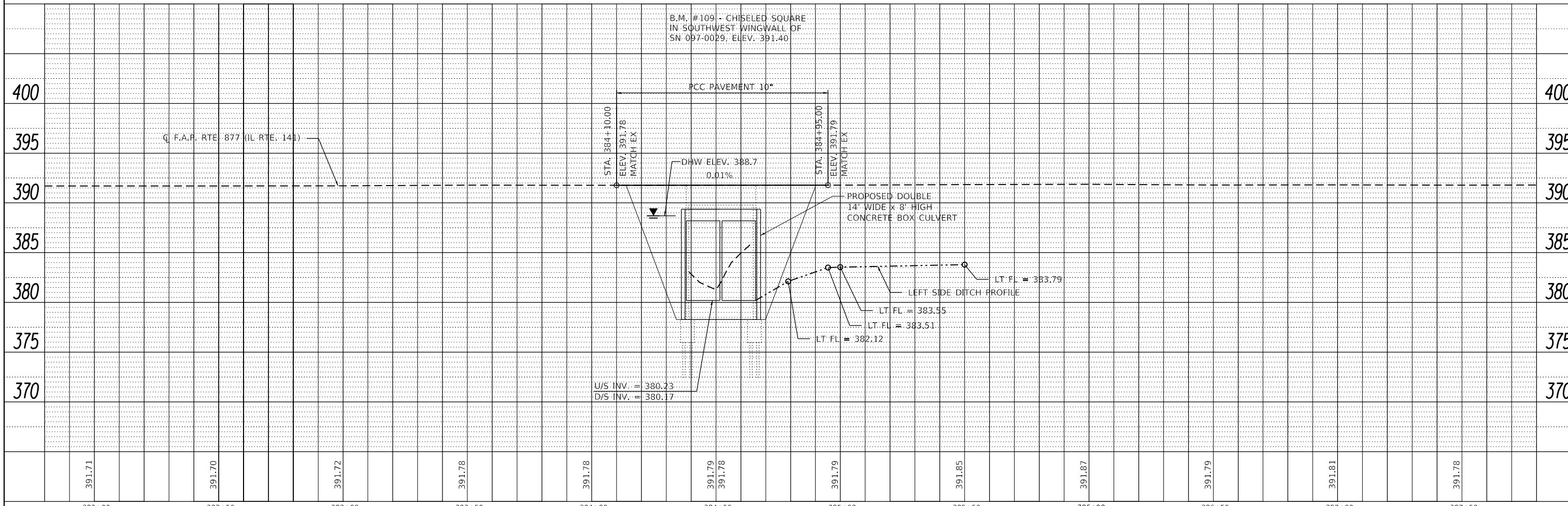
F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 16
ILLINOIS FED. AID PROJECT				

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

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATIONS CHKD	



SEC 13, T7S, R9E, 3RD PM



391.71	391.70	391.72	391.78	391.78	391.79	391.78	391.79	391.85	391.87	391.79	391.81	391.78
382+00	382+50	383+00	383+50	384+00	384+50	385+00	385+50	386+00	386+50	387+00	387+50	



USER NAME =	DESIGNED - LKD	REVISED -
	DRAWN - LKD/AEC	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 877 (IL RTE. 141) PLAN AND PROFILE
STRUCTURE NO. 097-2017

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 382+00 TO STA. 387+50

F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78264	

GENERAL NOTES

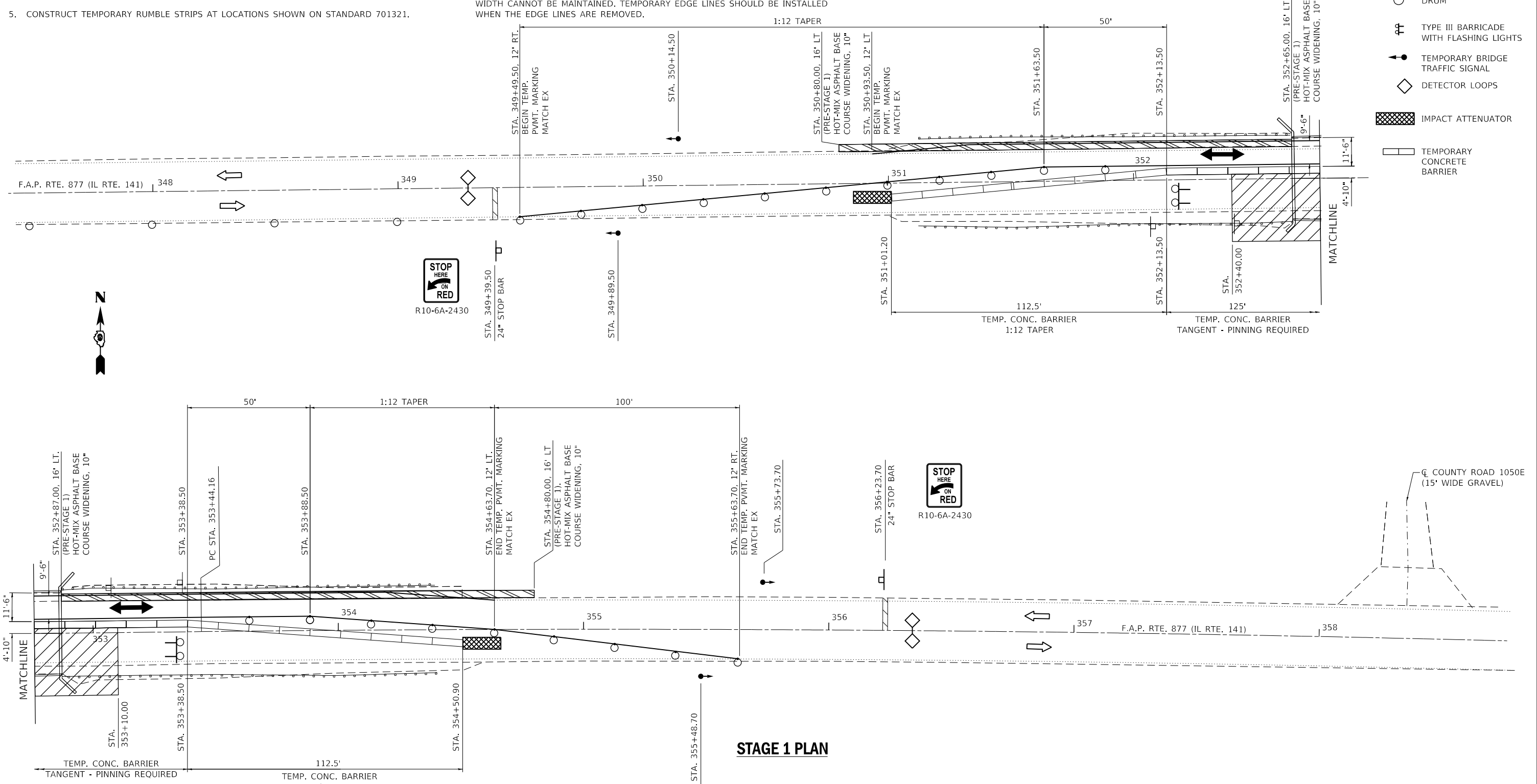
- PRE-STAGE 1: CONSTRUCT THE HOT-MIX ASPHALT BASE COURSE WIDENING FROM LT. STA. 350+80 TO LT. STA. 352+65 AND LT. STA. 352+87 TO LT. STA. 354+80 AS SHOWN ON THIS SHEET PRIOR TO PLACING THE SIGNALS IN OPERATION AND PLACEMENT OF THE TEMPORARY BARRIERS.
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH OR WITHOUT STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.

- ADVANCE WIDTH RESTRICTIONS WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103-4848) SHOWN ON THE WIDE LOAD DETOUR SHEET SHALL BE 10'-0" FOR STAGE 1 CONSTRUCTION.
- THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

- VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE NEW GUARDRAIL.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- THE STAGE 1 CONSTRUCTION SHALL INCLUDE THE REMOVAL OF THE EXISTING RT. SIDE PAVEMENT FROM STA. 352+40 TO 353+10 AND THE SOUTH SIDE OF THE EXISTING BRIDGE. CONSTRUCT SOUTH END OF PROPOSED DOUBLE BOX CULVERT AS DETAILED ON THE STRUCTURAL PLANS. PLACE THE PROPOSED RT. SIDE PAVEMENT FROM STA. 352+40 TO STA. 353+10. PLACE PROPOSED RT. SIDE HOT-MIX ASPHALT SHOULDER OR BASE COURSE WIDENING FROM STA. 350+93.81 TO STA. 354+60. ERECT PROPOSED RT. SIDE GUARDRAIL.

LEGEND

- WORK AREA
- HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
- SIGN
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER



STAGE 1 PLAN



USER NAME = \$USERS	DESIGNED - LKD	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - AEC	REVISED -
PLOT DATE = 11/20/2017	CHECKED - JMH	REVISED -
	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 097-2016**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. 348+00 TO STA. 358+00











F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	18
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

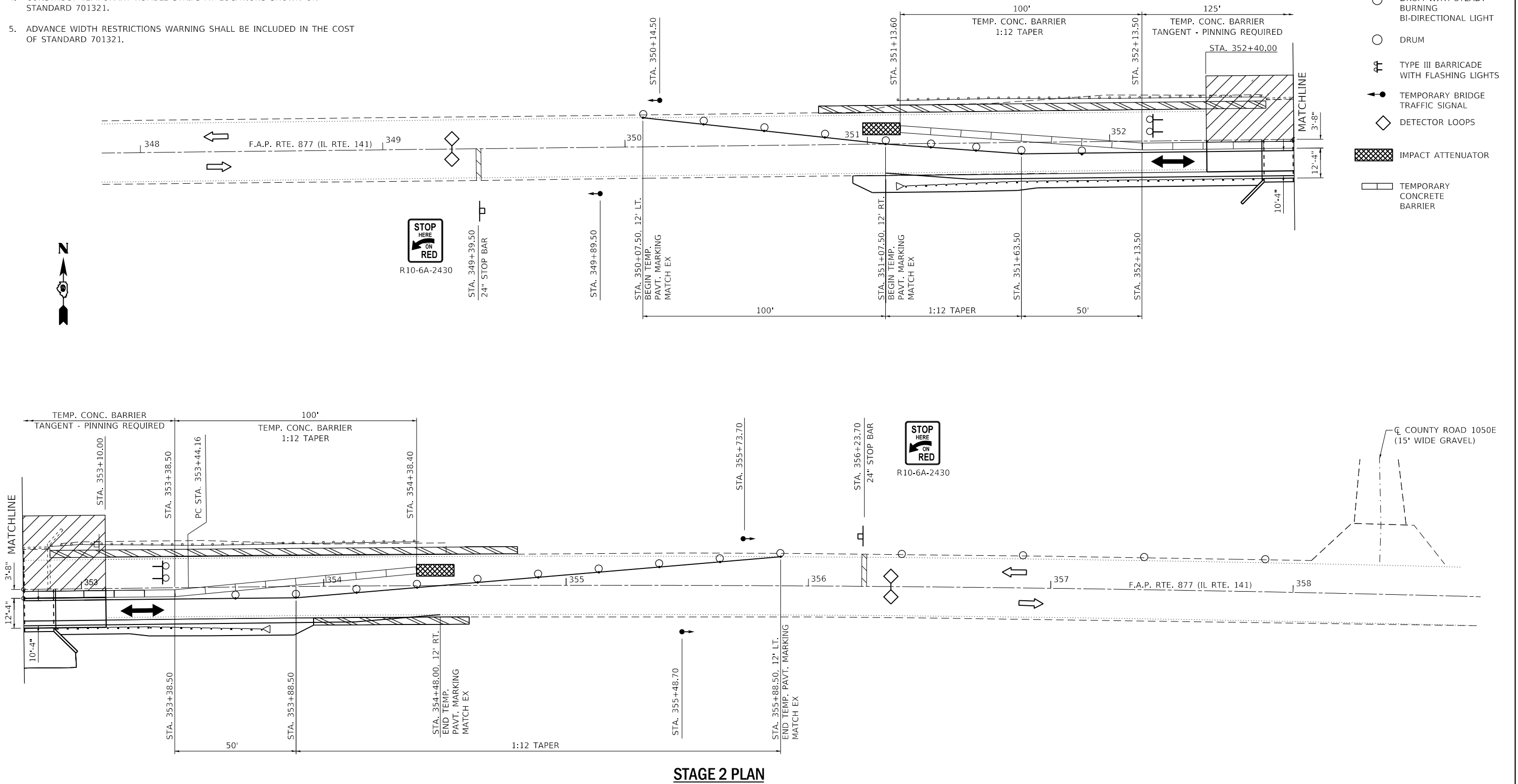
GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING. ADVANCE LOOP PLACEMENT, DRUMS WITH OR WITHOUT STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTIONS WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103-4848) SHOWN ON THE WIDE LOAD DETOUR SHEET SHALL BE 10'-2" FOR STAGE 2 CONSTRUCTION (DUE TO THE STAGE 2 LANE WIDTH FOR SN 097-2017).
- THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE NEW GUARDRAIL.

- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- THE STAGE 2 CONSTRUCTION SHALL INCLUDE THE REMOVAL OF THE EXISTING LT. SIDE PAVEMENT FROM STA. 352+40 TO 353+10 AND THE NORTH SIDE OF EXISTING BRIDGE. CONSTRUCT NORTH END OF PROPOSED DOUBLE BOX CULVERT AS DETAILED ON THE STRUCTURAL PLANS. PLACE THE PROPOSED LT. SIDE PAVEMENT FROM STA. 352+40 TO STA. 353+10. PLACE PROPOSED LT. SIDE HOT-MIX ASPHALT SHOULDER FROM STA. 351+56.31 TO STA. 354+58.19. ERECT PROPOSED LT. SIDE GUARDRAIL.

LEGEND

-  WORK AREA
-  HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
-  SIGN
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  DRUM
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  TEMPORARY BRIDGE TRAFFIC SIGNAL
-  DETECTOR LOOPS
-  IMPACT ATTENUATOR
-  TEMPORARY CONCRETE BARRIER

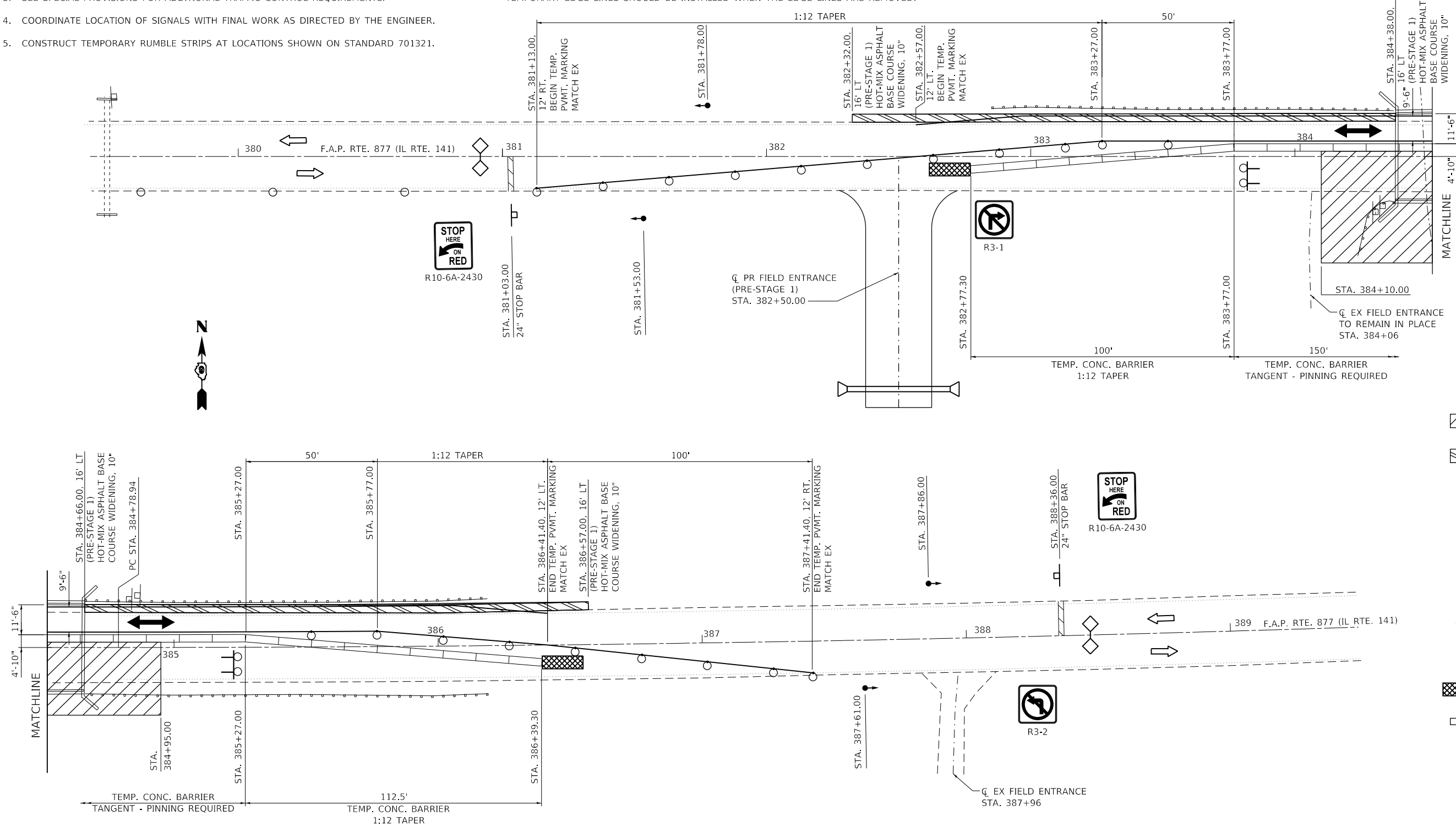


STAGE 2 PLAN

	USER NAME = \$USERS	DESIGNED - LKD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 CONSTRUCTION PLAN AND DETAILS STRUCTURE NO. 097-2016			F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 19
	PLOT SCALE = \$SCALE\$	CHECKED - JMH	REVISED -					SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA. 348+00 TO STA. 358+00	CONTRACT NO. 78264	
	PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -						ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

- PRE-STAGE 1: CONSTRUCT THE HOT-MIX ASPHALT BASE COURSE WIDENING FROM LT. STA. 382+32 TO LT. STA. 384+38 AND LT. STA. 384+66 TO LT. STA. 386+57 AND THE PROPOSED FIELD ENTRANCE AT STA. 382+50 AS SHOWN ON THIS SHEET PRIOR TO PLACING THE SIGNALS IN OPERATION AND PLACEMENT OF THE TEMPORARY BARRIERS.
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH OR WITHOUT STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTIONS WARNING, NO LEFT TURN, AND NO RIGHT TURN SIGNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103-4848) SHOWN ON THE WIDE LOAD DETOUR SHEET SHALL BE 10'-0" FOR STAGE 1 CONSTRUCTION.
- THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE NEW GUARDRAIL.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- THE STAGE 1 CONSTRUCTION SHALL INCLUDE THE REMOVAL OF THE EXISTING RT. SIDE PAVEMENT FROM STA. 384+10 TO 384+95 AND THE SOUTH SIDE OF THE EXISTING BRIDGE. CONSTRUCT SOUTH END OF PROPOSED DOUBLE BOX CULVERT AS DETAILED ON THE STRUCTURAL PLANS. PLACE THE PROPOSED RT. SIDE PAVEMENT FROM STA. 384+10 TO STA. 384+95. PLACE PROPOSED RT. SIDE HOT-MIX ASPHALT SHOULDER OR BASE COURSE WIDENING FROM STA. 382+27.50 TO STA. 386+57. ERECT PROPOSED RT. SIDE GUARDRAIL.



LEGEND

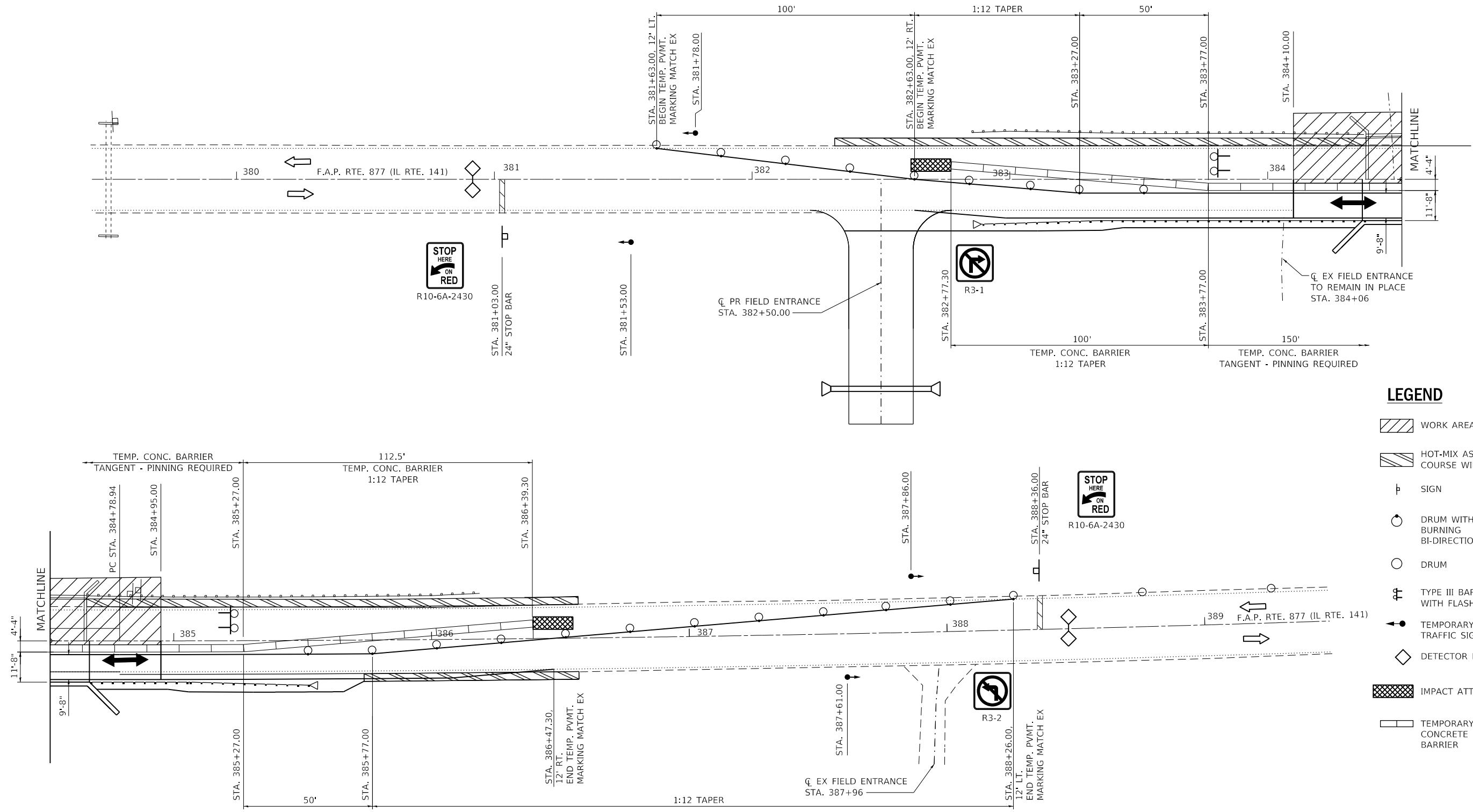
- WORK AREA
- HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
- SIGN
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER

STAGE 1 PLAN

	USER NAME = \$USERS	DESIGNED - LKD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 CONSTRUCTION PLAN AND DETAILS STRUCTURE NO. 097-2017	F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 20
	PLOT SCALE = \$SCALE\$	CHECKED - JMH	REVISED -			SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA. 380+00 TO STA. 389+00	CONTRACT NO. 78264	
	PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -			ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING. ADVANCE LOOP PLACEMENT, DRUMS WITH OR WITHOUT STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTIONS WARNING, NO LEFT TURN, AND NO RIGHT TURN SIGNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103-4848) SHOWN ON THE WIDE LOAD DETOUR SHEET SHALL BE 10'-2" FOR STAGE 2 CONSTRUCTION.
- THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE NEW GUARDRAIL.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- THE STAGE 2 CONSTRUCTION SHALL INCLUDE THE REMOVAL OF THE EXISTING LT. SIDE PAVEMENT FROM STA. 384+10 TO 384+95 AND THE NORTH SIDE OF THE EXISTING BRIDGE. CONSTRUCT NORTH END OF PROPOSED DOUBLE BOX CULVERT AS DETAILED ON THE STRUCTURAL PLANS. PLACE THE PROPOSED LT. SIDE PAVEMENT FROM STA. 384+10 TO STA. 384+95. PLACE PROPOSED LT. SIDE HOT-MIX ASPHALT SHOULDER FROM STA. 382+30.31 TO STA. 386+36.19. ERECT PROPOSED LT. SIDE GUARDRAIL.






LEGEND

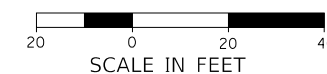
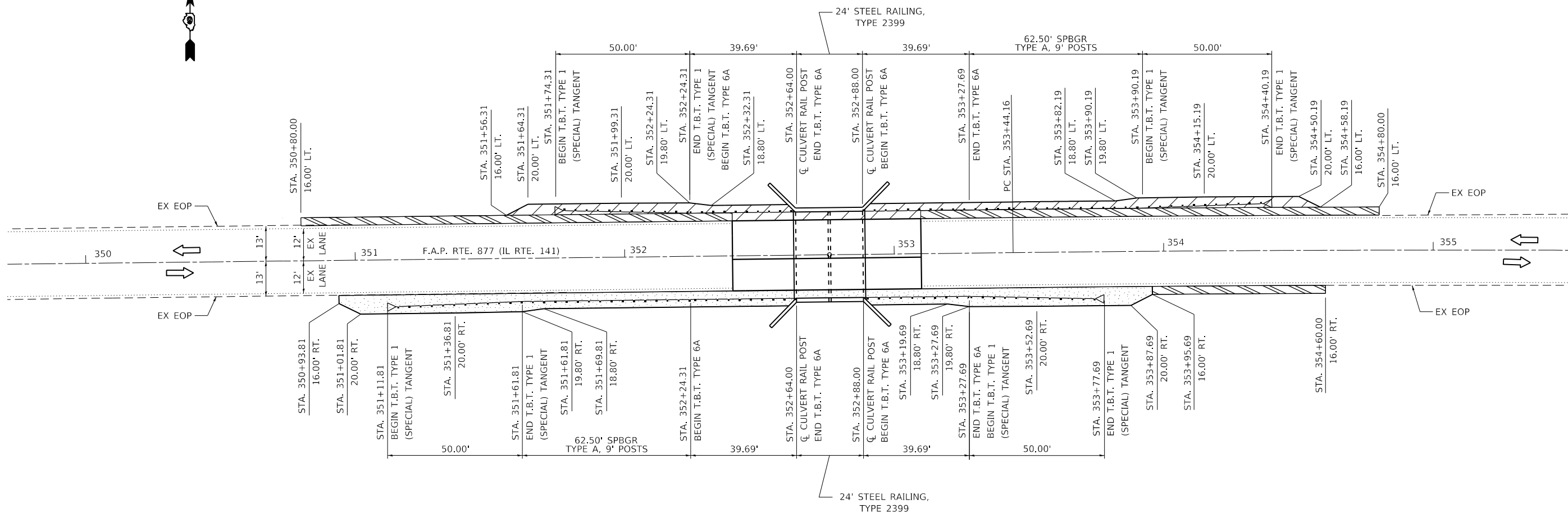
- WORK AREA
- HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
- SIGN
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- DRUM
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY BRIDGE TRAFFIC SIGNAL
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER

STAGE 2 PLAN

	USER NAME = \$USERS	DESIGNED - LKD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 CONSTRUCTION PLAN AND DETAILS STRUCTURE NO. 097-2017	F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 21		
	PLOT SCALE = \$SCALE\$	CHECKED - JMH	REVISED -			SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA. 380+00 TO STA. 389+00	CONTRACT NO. 78264			
	PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -			ILLINOIS FED. AID PROJECT						

SHOULDER LEGEND

-  HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
-  HOT-MIX ASPHALT SHOULDERS, 8"
-  HOT-MIX ASPHALT SHOULDERS, 10"



USER NAME = \$USERS	DESIGNED - JMH/LKD	REVISED -
	DRAWN - LKD	REVISED -
PLOT SCALE = \$\$SCALE\$	CHECKED - C.JL/JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -


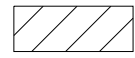

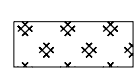
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

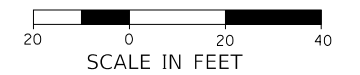
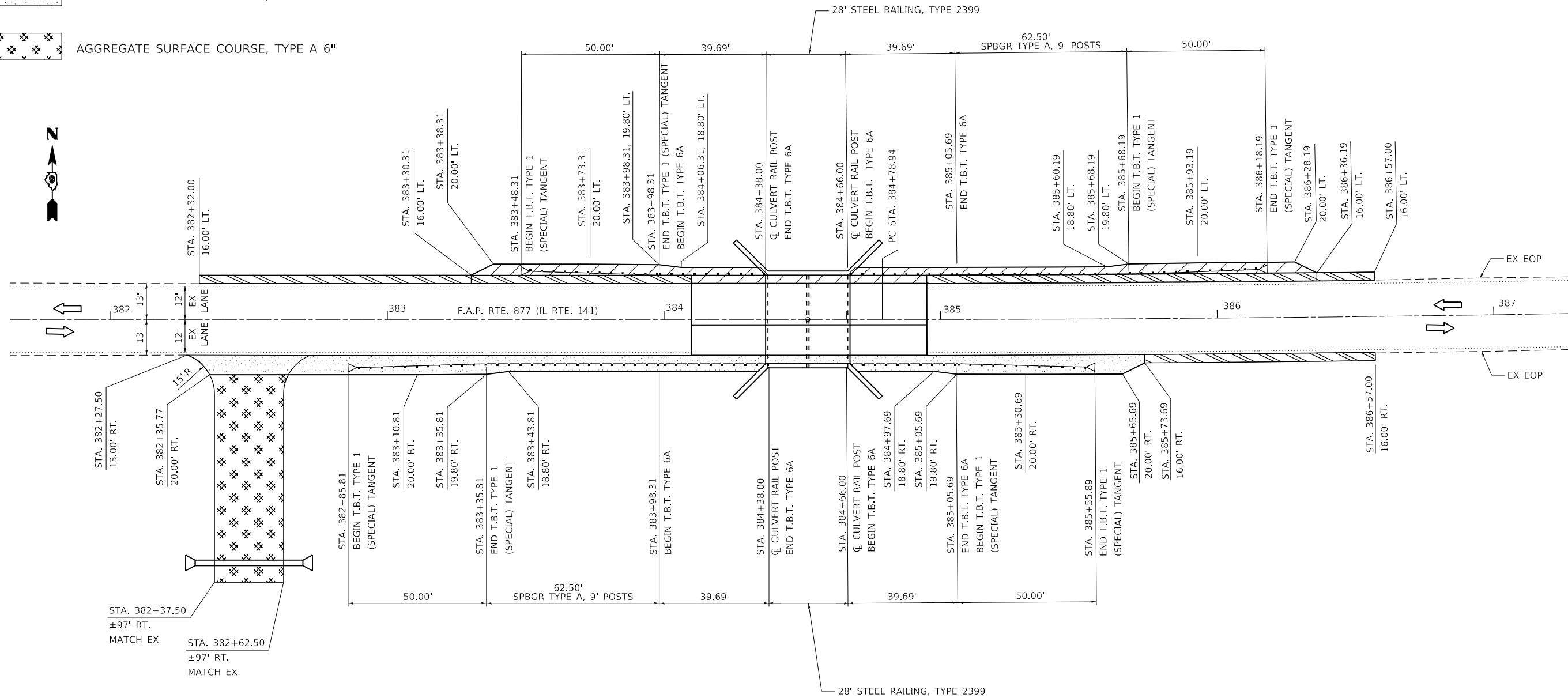
**GUARDRAIL AND SHOULDER LAYOUT
STRUCTURE NO. 097-2016**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 350+80.00 TO STA. 354+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	22
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

SHOULDER LEGEND

-  HOT-MIX ASPHALT BASE COURSE WIDENING, 10"
-  HOT-MIX ASPHALT SHOULDERS, 8"
-  HOT-MIX ASPHALT SHOULDERS, 10"
-  AGGREGATE SURFACE COURSE, TYPE A 6"



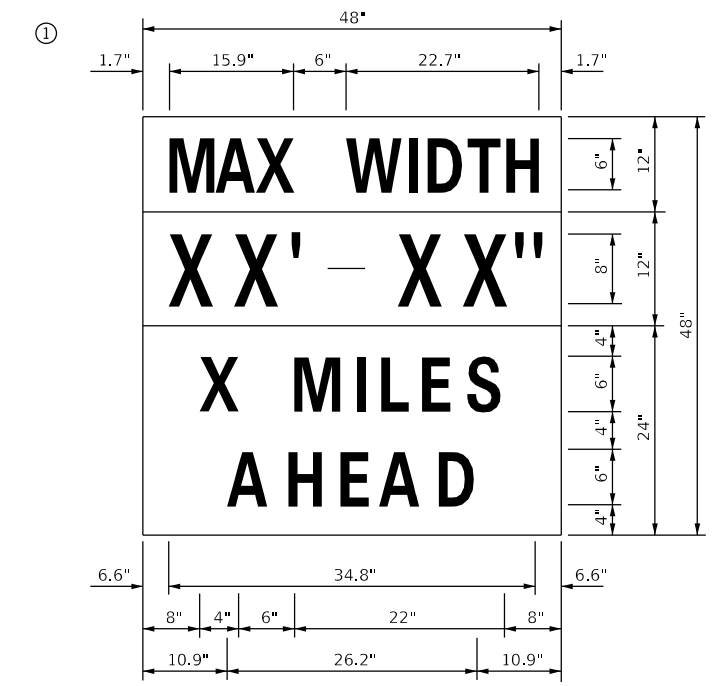
USER NAME = \$USERS	DESIGNED - JMH/LKD	REVISED -
	DRAWN - LKD	REVISED -
PLOT SCALE = \$\$SCALE\$	CHECKED - CJL/JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL AND SHOULDER LAYOUT STRUCTURE NO. 097-2017	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS
STA. 382+27.50	TO STA. 386+57.00

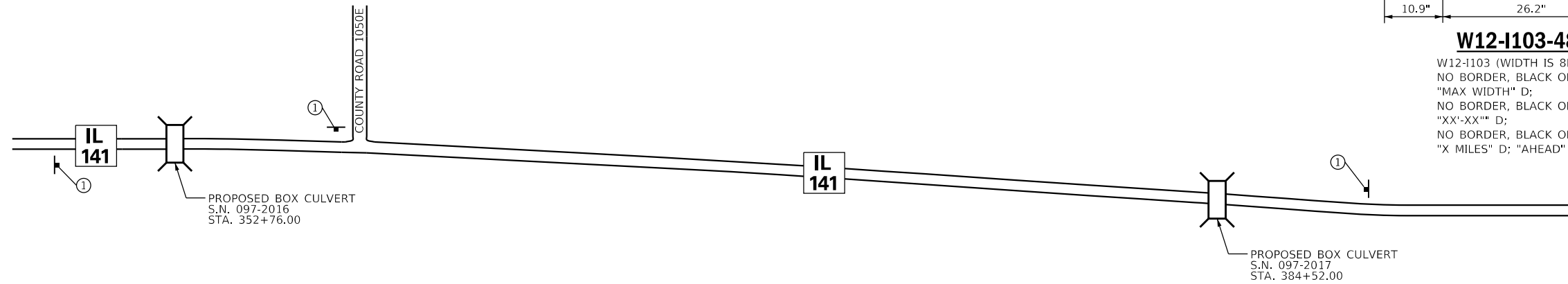
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	23
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

SIGN LEGEND



W12-1103-4848

W12-1103 (WIDTH IS 8D):
 NO BORDER, BLACK ON WHITE;
 "MAX WIDTH" D;
 NO BORDER, BLACK ON ORANGE;
 "XX'-XX\" D;
 NO BORDER, BLACK ON WHITE;
 "X MILES" D; "AHEAD" D



WIDE LOAD DETOUR SIGNING PLAN

NOTES:

1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
2. THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STD 701321 AND NO OTHER COMPENSATION WILL BE ALLOWED.
3. THE WIDTH SHOWN ON THE W12-1103 SIGN SHALL BE 10'-0" FOR STAGE I AND 10'-2" FOR STAGE II OR AS DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.



USER NAME = \$USERS	DESIGNED - JMH	REVISED -
	DRAWN - AEC	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -

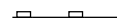



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

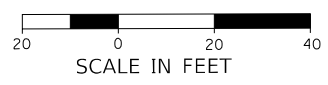
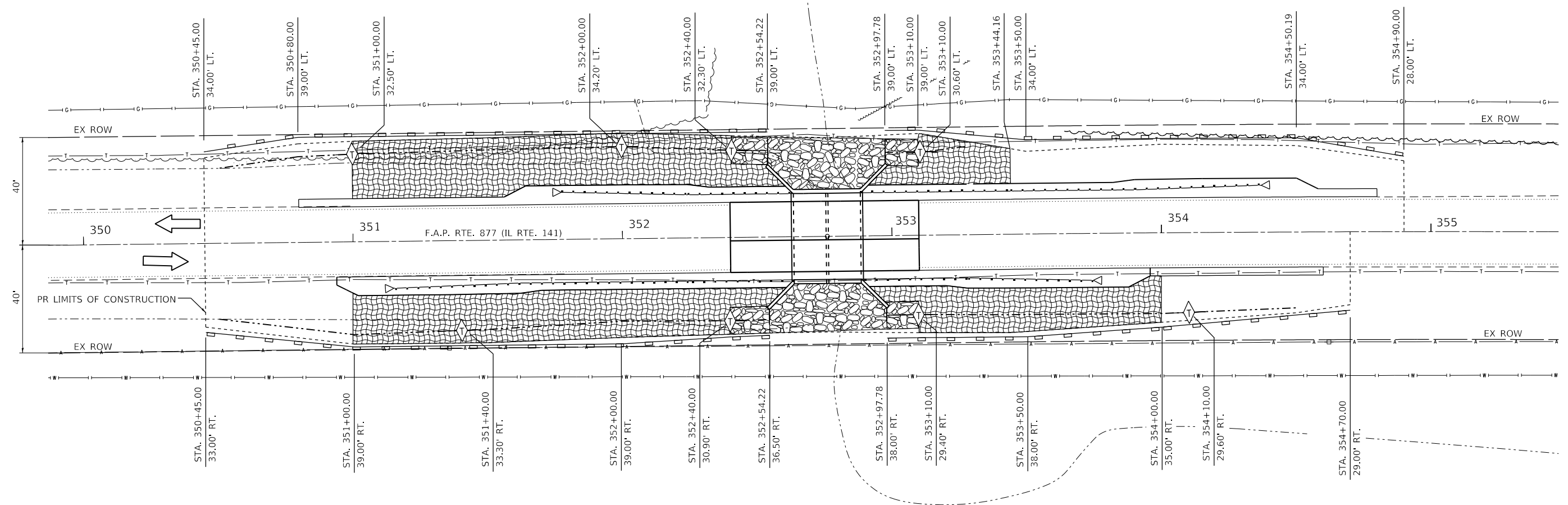
WIDE LOAD DETOUR

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3;101B-4	WHITE	65	24
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PERIMETER EROSION BARRIER
-  STONE RIPRAP, CLASS A5 WITH FILTER FABRIC
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECK





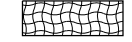
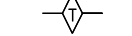
USER NAME = \$USERS	DESIGNED - LKD	REVISED -
DRAWN - AEC	CHECKED - JMH	REVISED -
PLOT SCALE = \$\$SCALE\$\$	DATE - 11/20/2017	REVISED -
PLOT DATE = 11/20/2017		

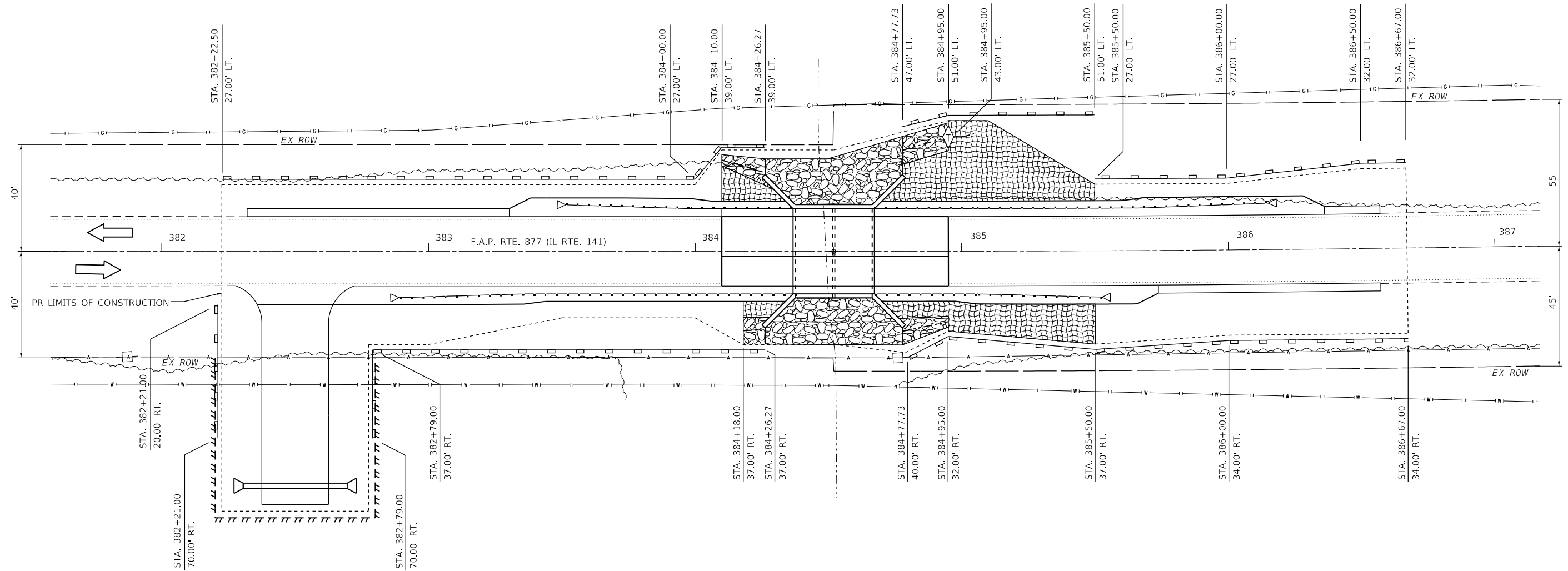
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STRUCTURE NO. 097-2016	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS
STA. 350+00	TO STA. 355+00

F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 25
CONTRACT NO. 78264			ILLINOIS FED. AID PROJECT	

LEGEND

-  PERIMETER EROSION BARRIER
-  STONE RIPRAP, CLASS A5 WITH FILTER FABRIC
-  HEAVY DUTY EROSION CONTROL BLANKET
-  TEMPORARY DITCH CHECK



USER NAME = \$USERS	DESIGNED - LKD	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - AEC	REVISED -
PLOT DATE = 11/20/2017	CHECKED - JMH	REVISED -
	DATE - 11/20/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL
STRUCTURE NO. 097-2017**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 382+00 TO STA. 387+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	26
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

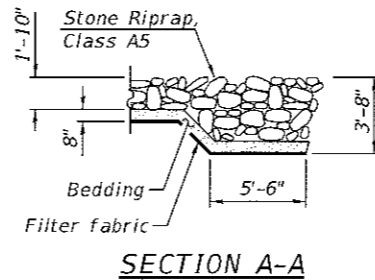
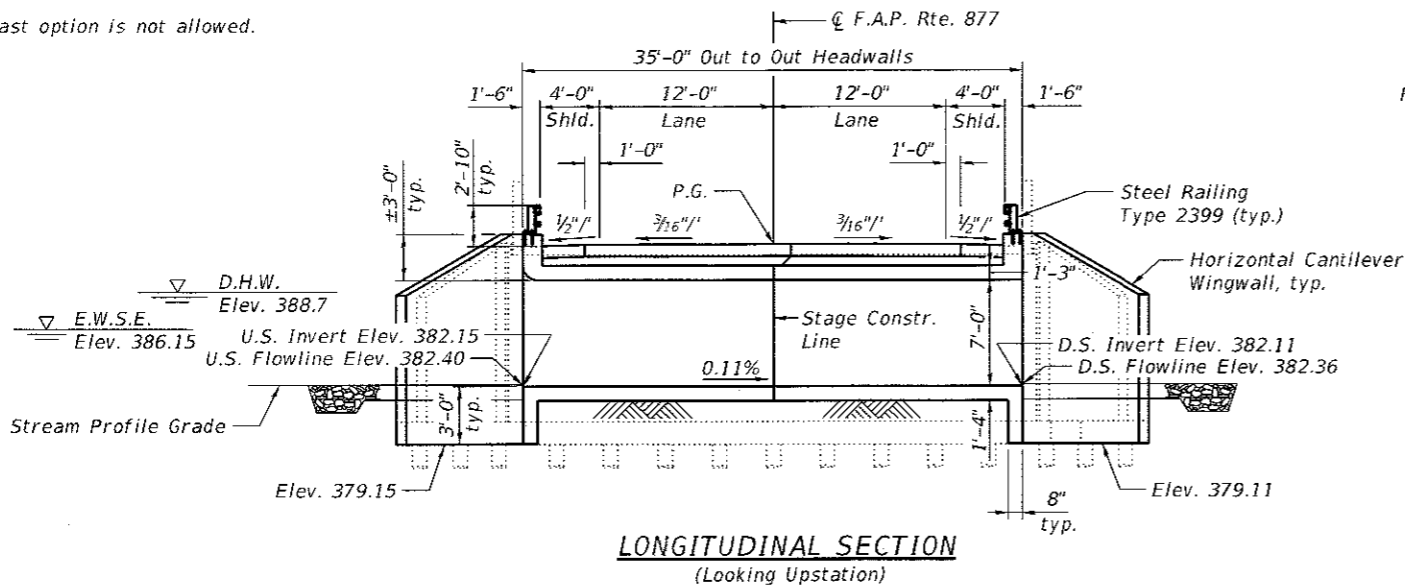
Bench Mark: BM 108 - Chiseled square in southwest wingwall of SN 097-0064, Elev. 391.31.

Existing Structure: SN 097-0064 was originally built in 1933 as SBI Route 141 (Section A-101) and resurfaced in 1970 as SBI Route 141 (Section 101W, RS). The existing structure is a 22 foot (back to back abutments) single span reinforced concrete slab bridge. The substructure consists of closed abutments founded on footings on timber piles. The deck measures 32'-8" between curbs and the overall out to out width of the bridge is 36'-2". The existing superstructure and abutment walls are to be removed. The existing foundation is to remain in place except as noted.

Traffic to be maintained utilizing stage construction.

No salvage.

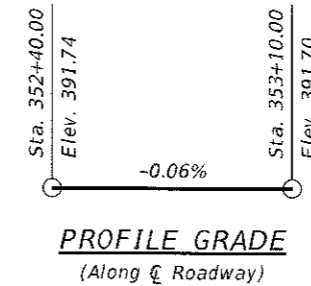
Precast option is not allowed.



* See Roadway Plans for riprap layout and payment

LEGEND

Partial Removal of Existing Foundation



STATION 352+76.00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 877 SEC. 101B-3
LOADING HL-93
STRUCTURE NO. 097-2016

NAME PLATE
See Std. 515001

INDEX OF SHEETS

1. General Plan and Elevation
2. General Structure Data
3. Pre-Stage 1 Shoring Details
4. Stage Construction Details
5. Temporary Concrete Barrier for Stage Construction
6. Culvert Details - 1
7. Culvert Details - 2
8. Steel Railing, Type 2399
9. Bar Splicer Assembly Details
10. Boring Logs - 1
11. Boring Logs - 2
12. Existing Structure Plans - 1 (097-0064)
13. Existing Structure Plans - 2 (097-0064)

LOADING HL-93

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

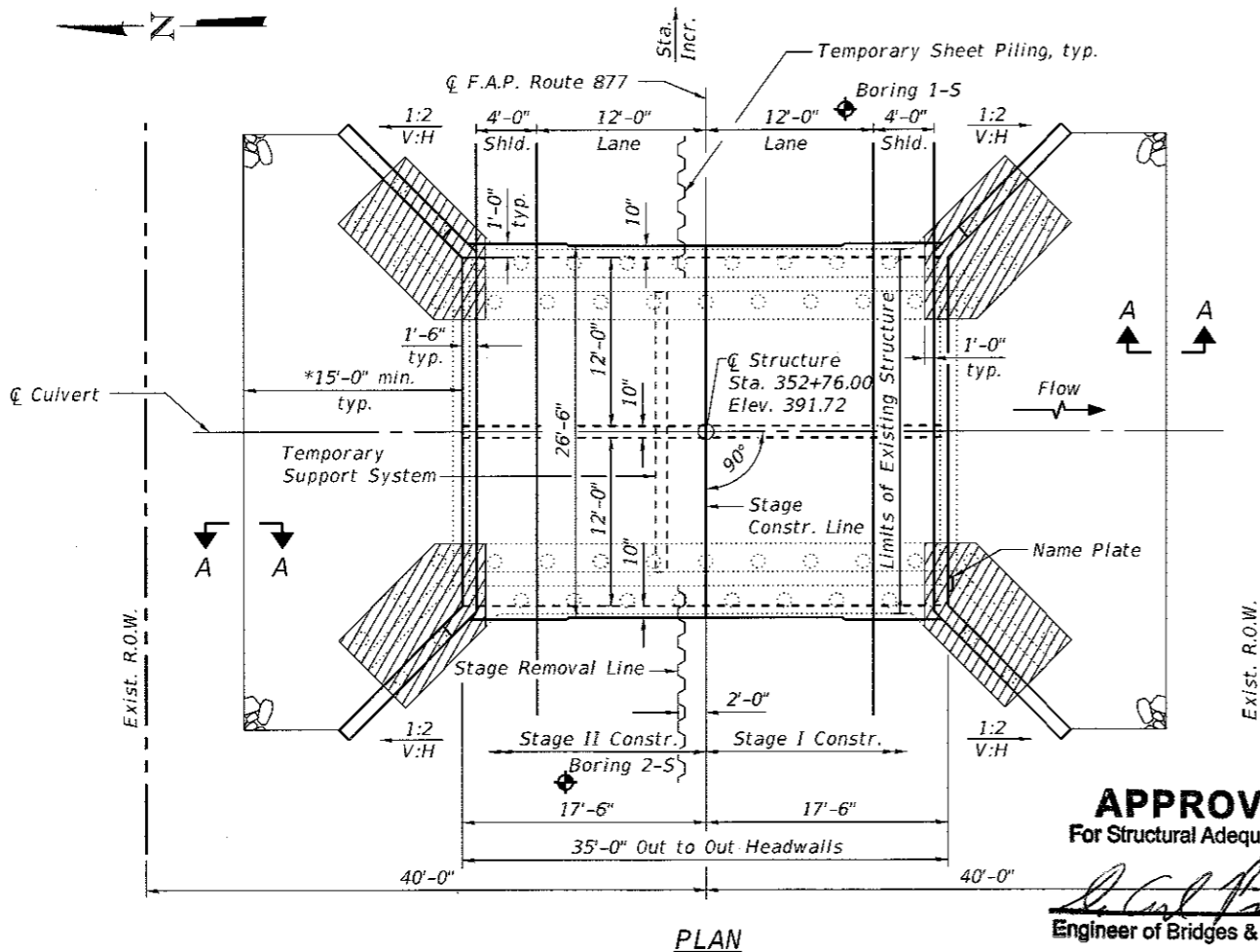
DESIGN SPECIFICATIONS

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

DESIGN STRESSES

FIELD UNITS

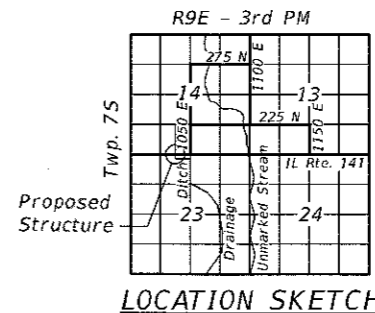
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



APPROVED
For Structural Adequacy Only

Engineer of Bridges & Structures

JERILYN M. HASSARD
081-006521
LICENSED STRUCTURAL ENGINEER OF ILLINOIS
JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-006521
EXPIRES 11/30/2018



WATERWAY INFORMATION

Flood		Discharge (cfs)		Waterway Opening (sq. ft.)		Natural H.W.E.	Head (ft.)		Headwater Elevation	
		Existing	Proposed	Existing	Proposed		Existing	Proposed	Existing	Proposed
10	Main Channel	1119	1145	136	217	388.3	2.1	1.7	390.4	390.0
	Relief Structure	779	753	110	141					
	Total	1898	1898	246	358					
OVT (E)	Main Channel	1221	1480	142	217	388.5	2.8	2.8	391.3	391.3
	Relief Structure	862	1100	115	147					
	Total	2083	2580	257	364					
OVT (P)	Main Channel	1146	1480	143	217	388.6	2.8	2.7	391.4	391.2
	Relief Structure	808	1096	116	148					
	Total	1954	2576	259	365					
50	Main Channel	955	1260	146	217	388.7	2.8	2.7	391.4	391.4
	Relief Structure	674	950	118	151					
	Total	1629	2210	264	368					
100	Main Channel	631	918	150	217	388.8	2.8	2.7	391.6	391.5
	Relief Structure	434	672	121	154					
	Total	1065	1590	271	371					

Note: SN 097-2016 is the relief structure.

10 year velocity through existing bridge = 5.48 ft/s
10 year velocity through proposed bridge = 4.65 ft/s

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 141 OVER
DRAINAGE DITCH
F.A.P. ROUTE 877 - SEC. 101B-3
WHITE COUNTY
STATION 352+76.00
STRUCTURE NO. 097-2016



USER NAME =	DESIGNED - YSS	REVISED -
PLOT SCALE =	CHECKED - LNB	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 13 SHEETS

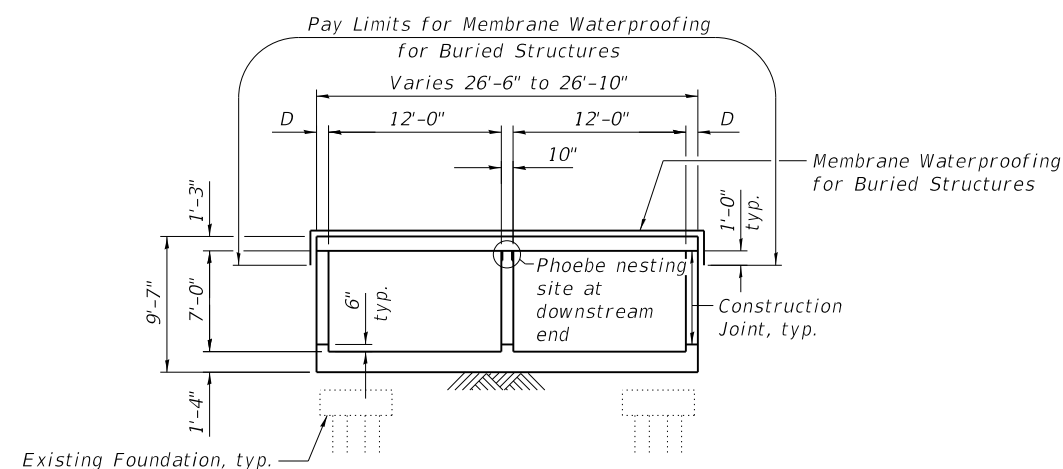
F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 27
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 The Contractor shall have the option of using either 2 bar splicers or 2 cast in place inserts at 6" centers at the mid-depth of the PCC Pavement. The bar splicers or inserts shall have a minimum proof load of 5,000 pounds. Along with the anchoring devices, the Contractor shall provide one steel retainer plate, and 2, 1/2" dia. bolts and washers every 6 feet as shown in Detail II on Standard R-27 from Sta. 352+40 to Sta. 353+10 for Stage II traffic. Cost to be included with Temporary Concrete Barrier.

TOTAL BILL OF MATERIAL

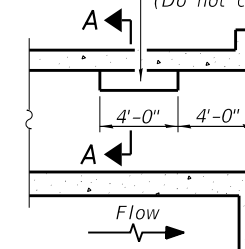
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	273
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	532
Reinforcement Bars, Epoxy Coated	Pound	26,690
Bar Splicers	Each	154
Steel Railing, Type 2399	Foot	56
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	727
Concrete Box Culverts	Cu. Yd.	145.0
Temporary Support System	L. Sum	0.5
Membrane Waterproofing for Buried Structures	Sq. Yd.	111.7



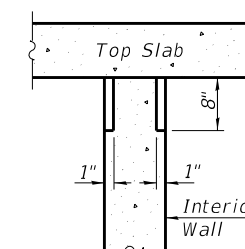
SECTION THRU BARREL

D = Varies 10" at \bar{C} Roadway to 12" at each end of culvert

Notch formed by rough finished board attached to and removed with formwork, each interior wall. (Do not chamfer).

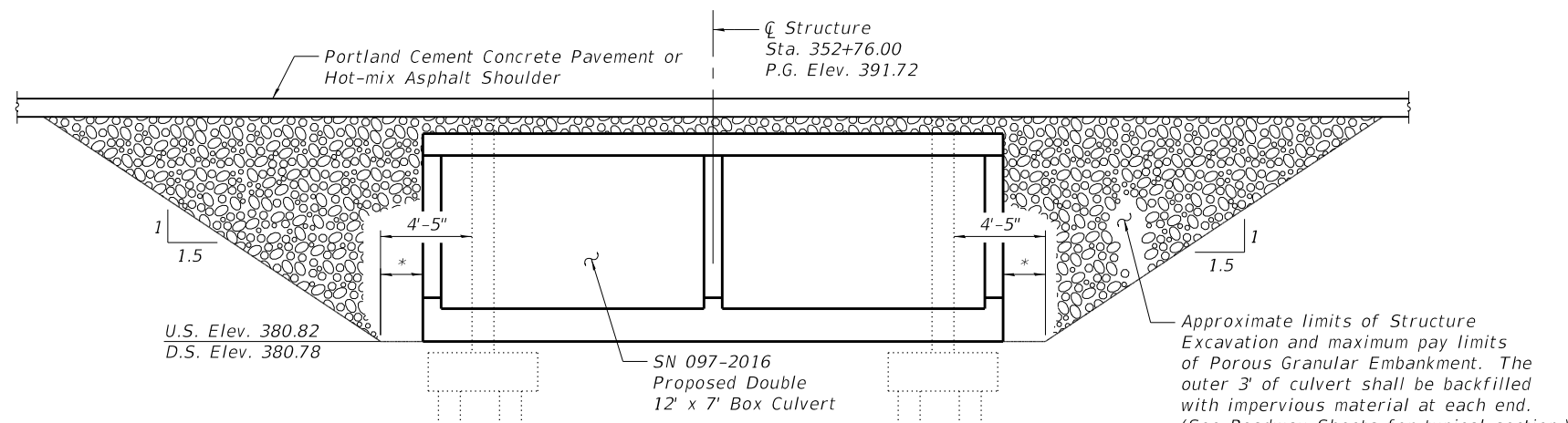


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS (Downstream End Only)



POROUS GRANULAR EMBANKMENT SECTION AT STRUCTURE REPLACEMENT

* Varies 2'-2" at \bar{C} Roadway to 2'-0" at each end of culvert

Note:
 Porous Granular Embankment shall be CA-7 or CA-11 capped with 1'-0" of CA-6 or CA-10.



USER NAME =	DESIGNED - YSS	REVISED -
	CHECKED - LNB	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

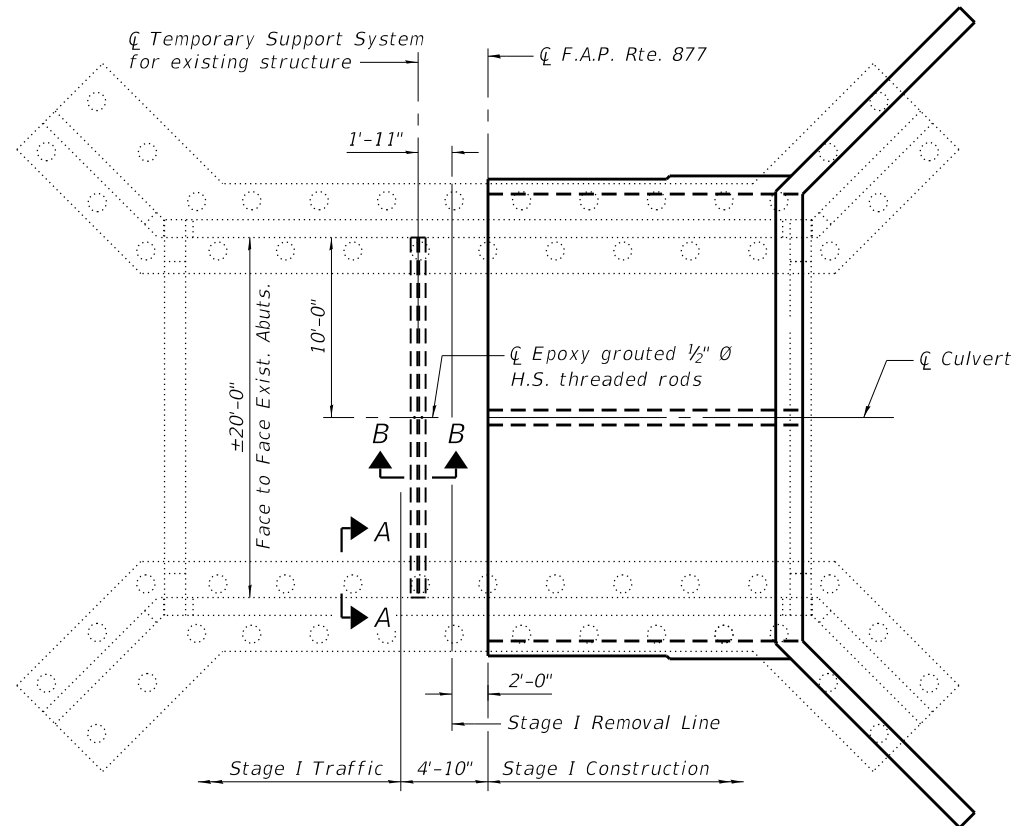
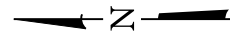
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL STRUCTURE DATA
 STRUCTURE NO. 097-2016**

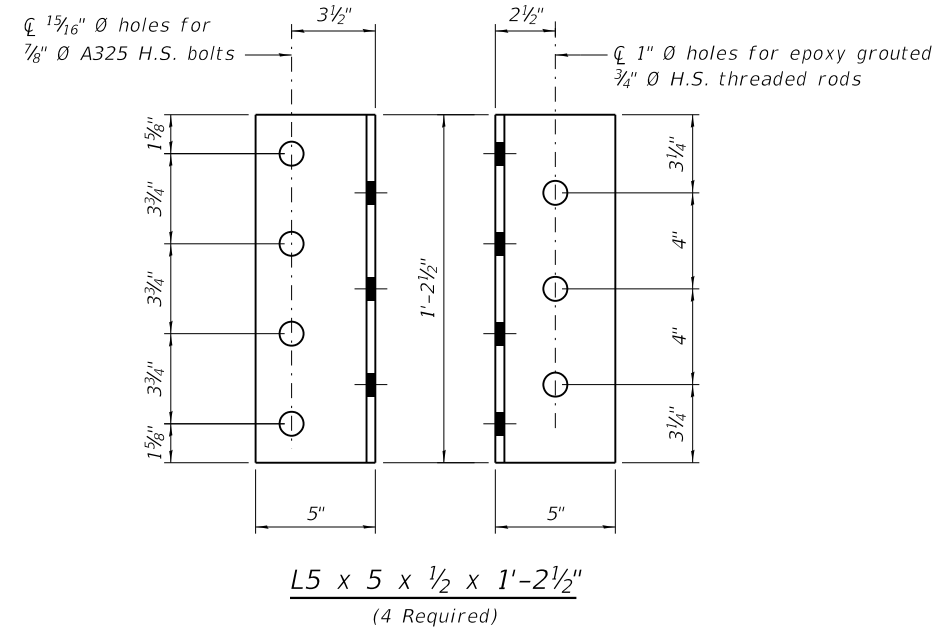
SHEET NO. 2 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	28
CONTRACT NO. 78264				

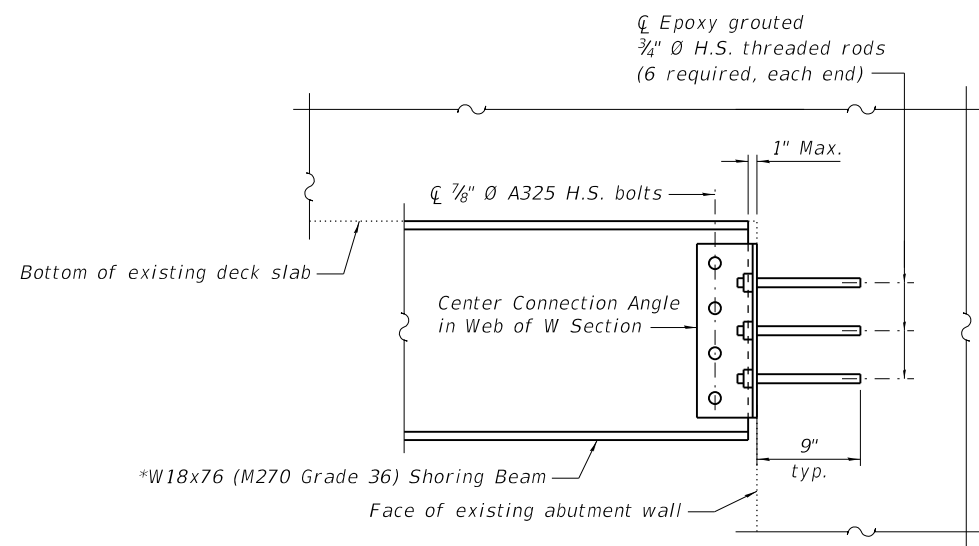
ILLINOIS FED. AID PROJECT



PLAN

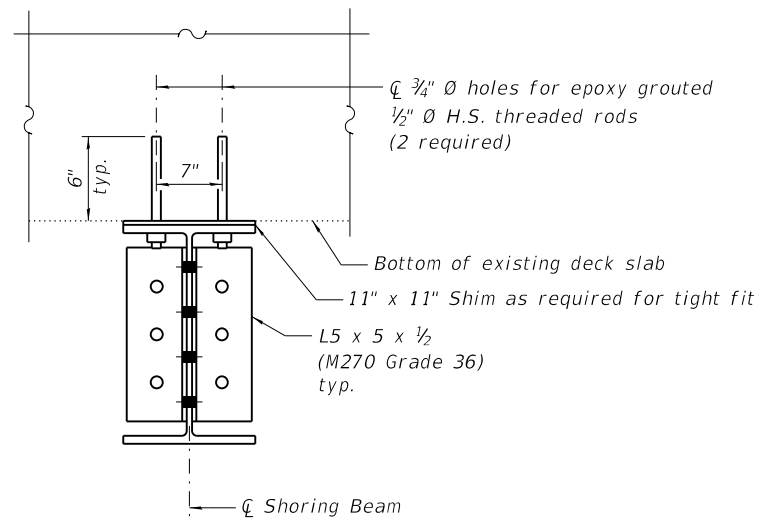


L5 x 5 x 1/2 x 1'-2 1/2"
(4 Required)



SECTION A-A

Note: Prior to drilling holes in wall for placement of connection angles, location of existing reinforcement shall be determined. If necessary, adjust location of holes in order to avoid existing reinforcement.



SECTION B-B

Notes:
 High strength threaded rods shall be ASTM F1554 Grade 105 and shall satisfy the requirements of Article 1006.09 of the Standard Specifications.
 See Section 584 of the Standard Specifications for Grouting of Anchor Rods and Bars.
 Furnishing and installing all components of the Temporary Support System, including drilling and grouting H.S. threaded rods, shall be paid for at the contract unit price per lump sum for Temporary Support System.

BILL OF MATERIAL

Item	Unit	Total
Temporary Support System	L. Sum	0.5

Note: Estimated weight of structural steel = 1,646 lbs.

* Clip corners of top and bottom flanges as needed for installation.



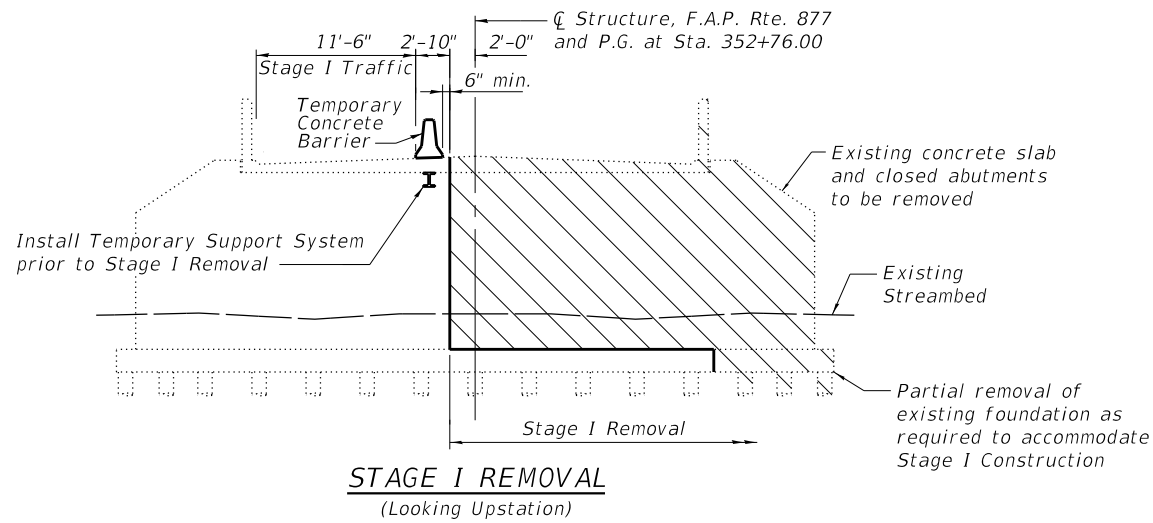
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

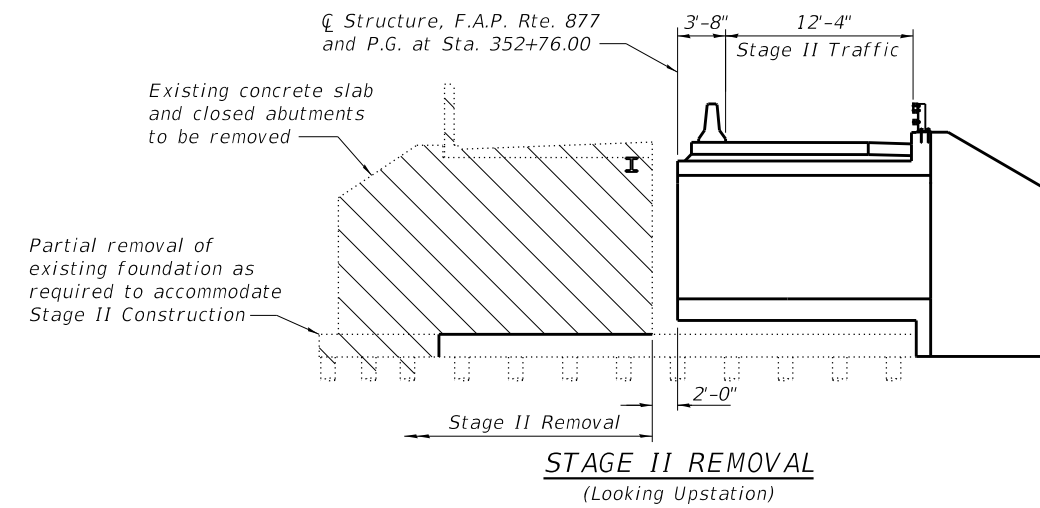
PRE-STAGE 1 SHORING DETAILS
STRUCTURE NO. 097-2016

SHEET NO. 3 OF 13 SHEETS

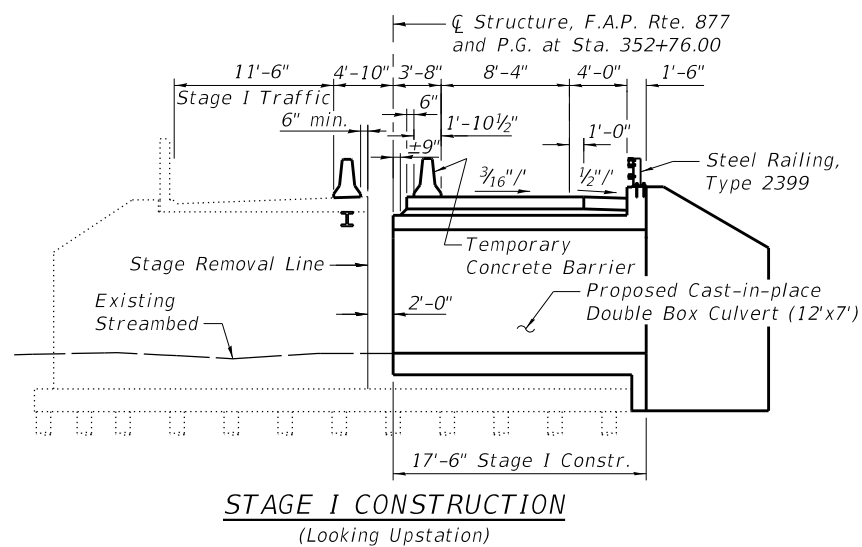
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	29
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



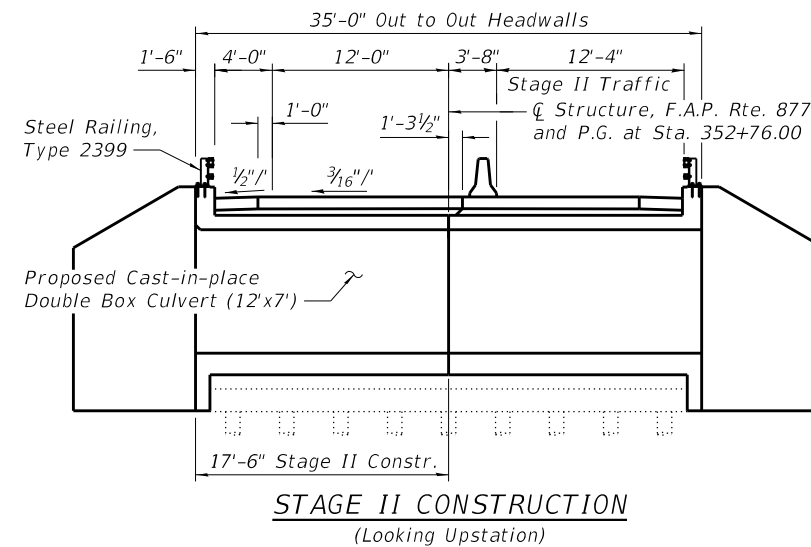
STAGE I REMOVAL
(Looking Upstation)



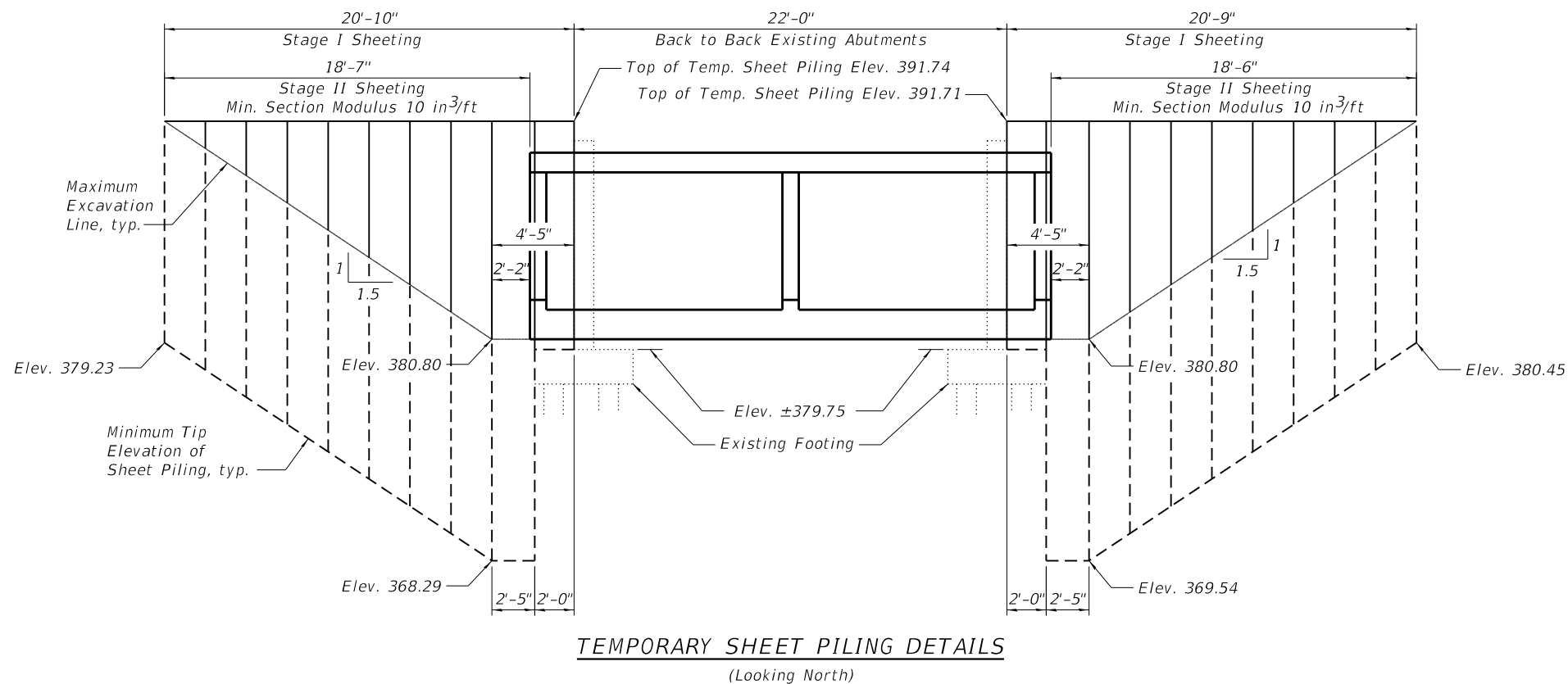
STAGE II REMOVAL
(Looking Upstation)



STAGE I CONSTRUCTION
(Looking Upstation)



STAGE II CONSTRUCTION
(Looking Upstation)



TEMPORARY SHEET PILING DETAILS
(Looking North)

Notes:
 For details of Temporary Concrete Barrier see Sheet 5 of 13.
 For quantity of Temporary Concrete Barrier see Roadway Plans.
 Hatched areas indicate areas of removal to be paid for as Removal of Existing Structures No. 1. The existing structure, including foundation, shall be removed at least 1'-0" below the proposed groundline and as required for construction of culvert and wingwalls.
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations sealed by a licensed structural engineer will be required for review and acceptance by the Engineer.
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

BILL OF MATERIAL

Item	Unit	Total
Temporary Sheet Piling	Sq. Ft.	727



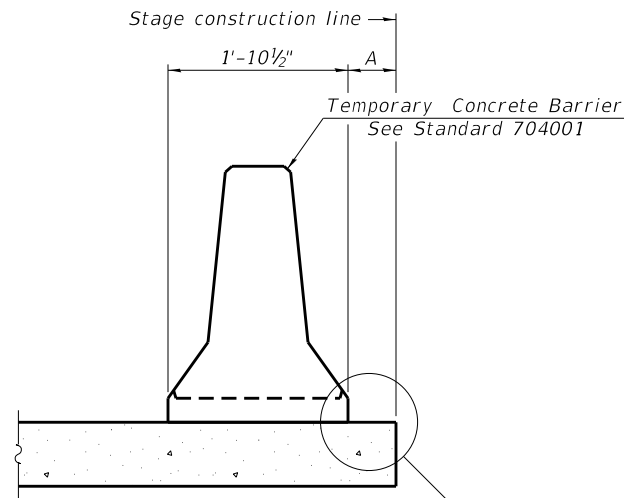
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 097-2016

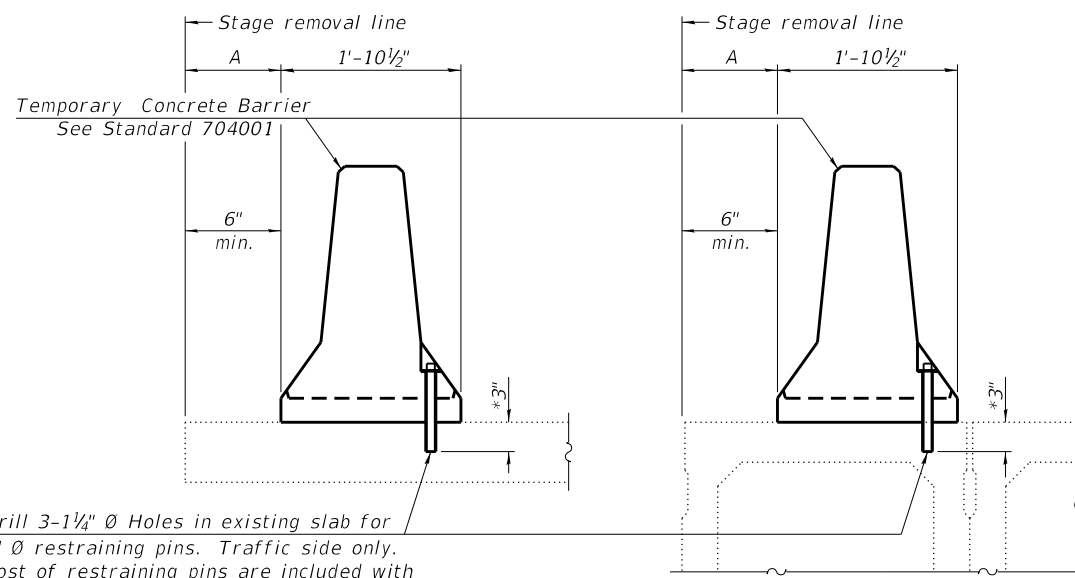
SHEET NO. 4 OF 13 SHEETS

F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 30
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



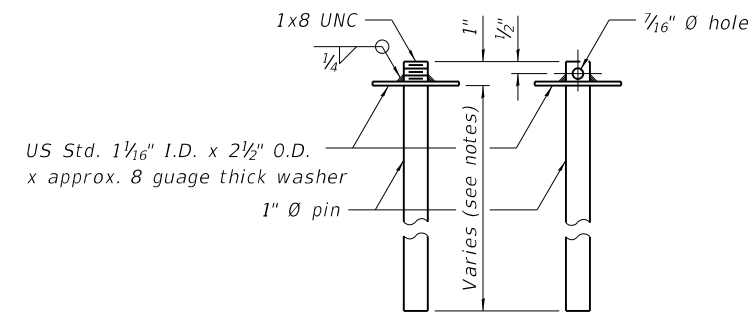
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

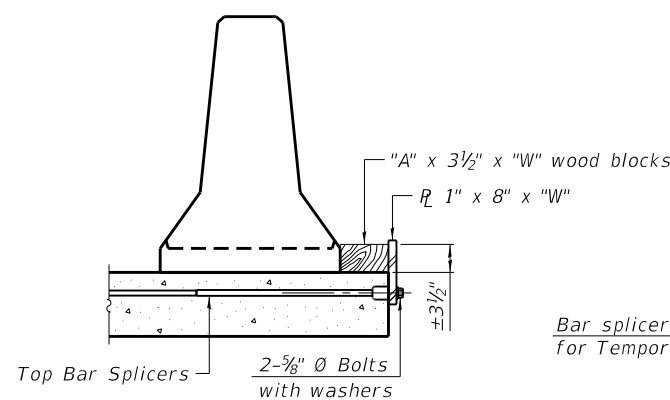
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

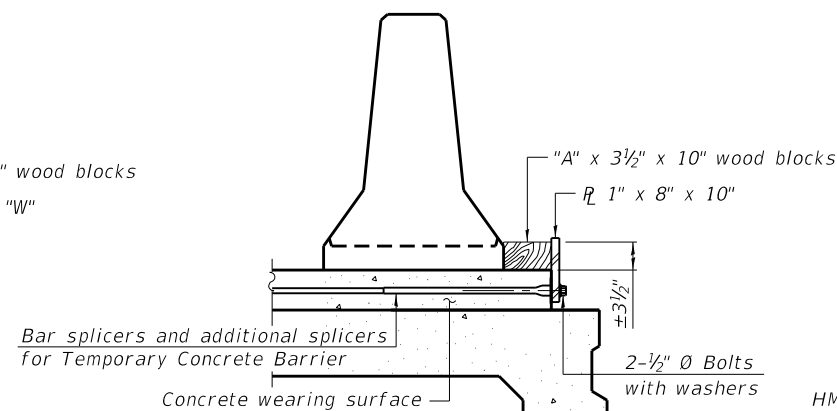
SECTIONS THRU SLAB OR DECK BEAM



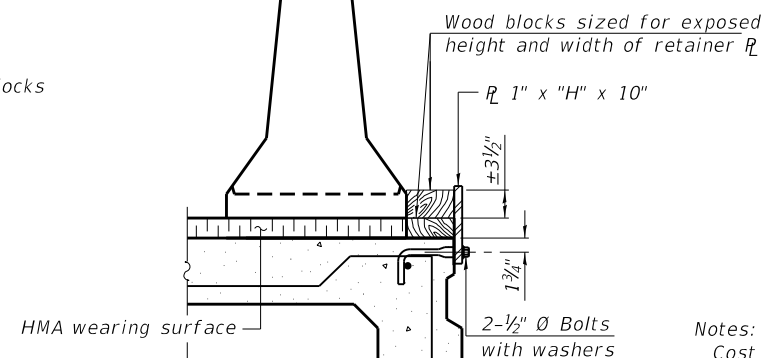
RESTRAINING PIN



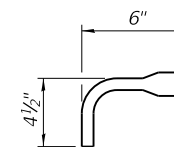
DETAIL I



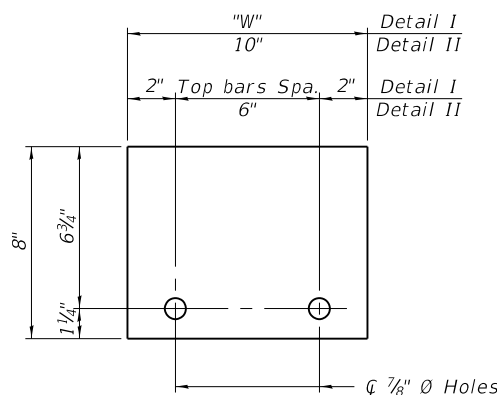
DETAIL II



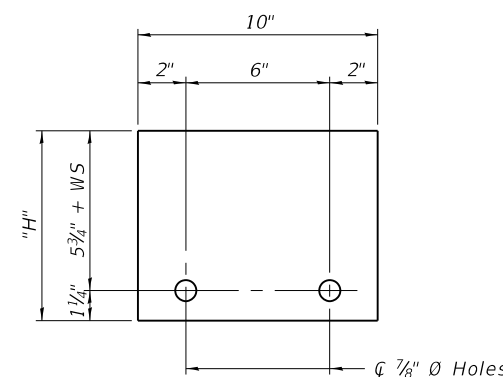
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{c} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017



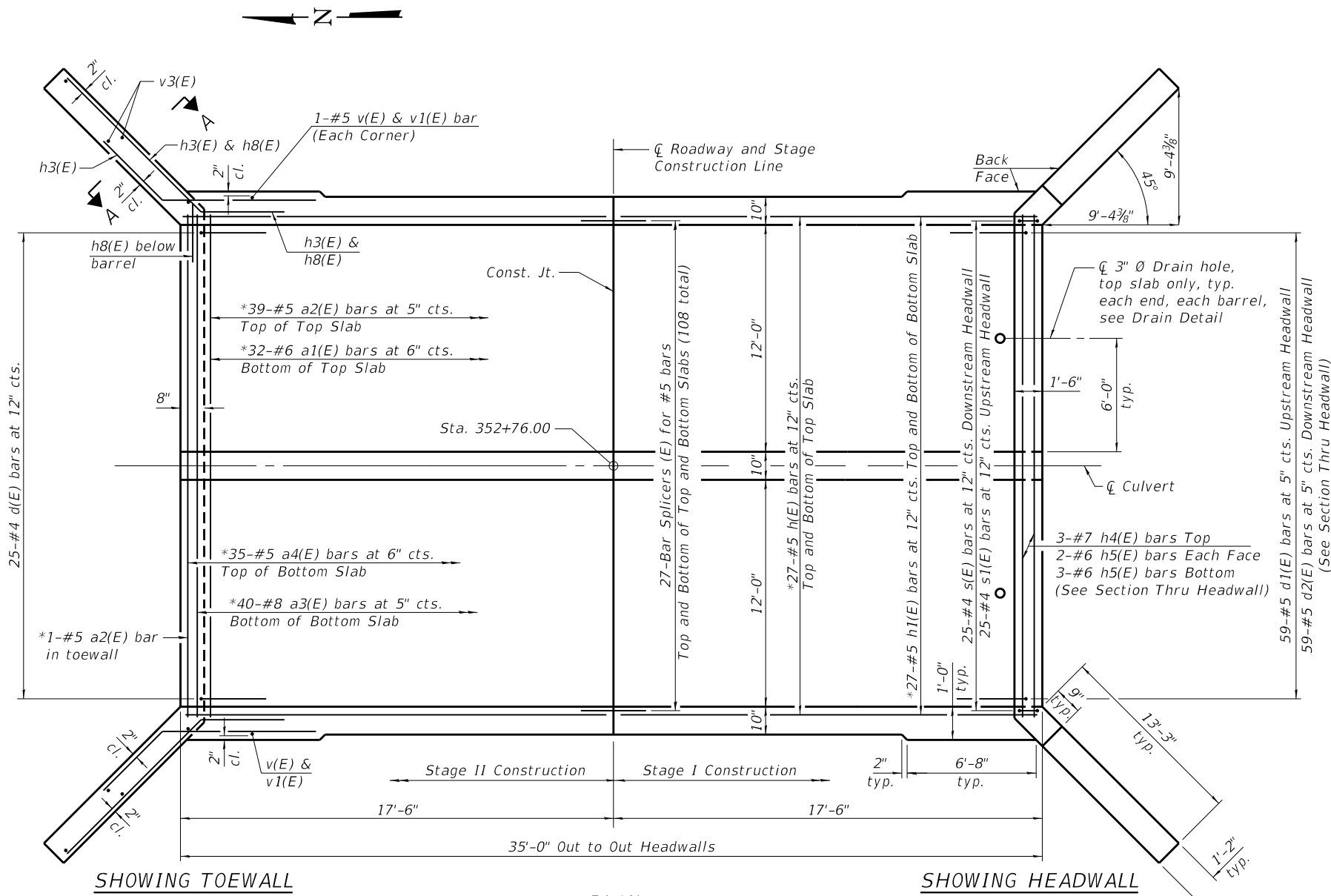
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 097-2016

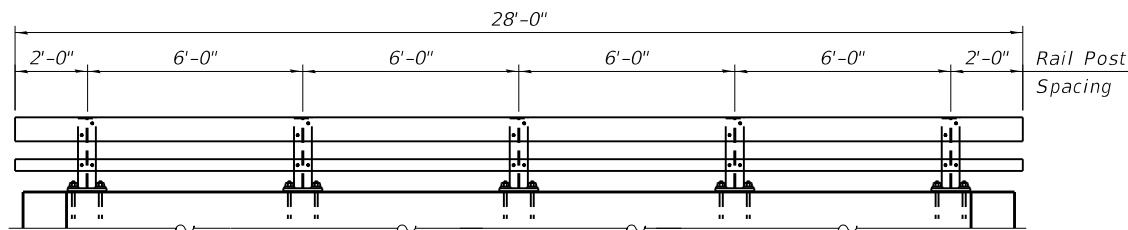
SHEET NO. 5 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	31
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

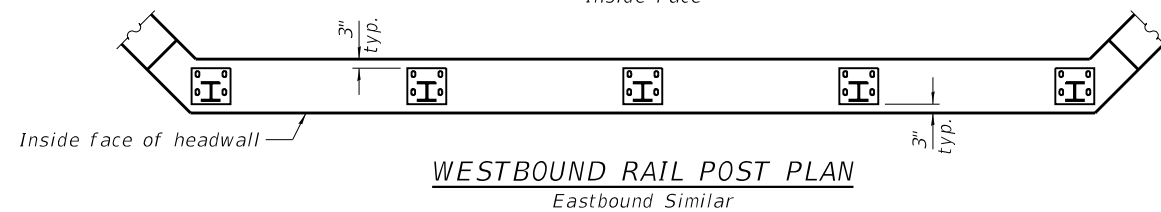


PLAN

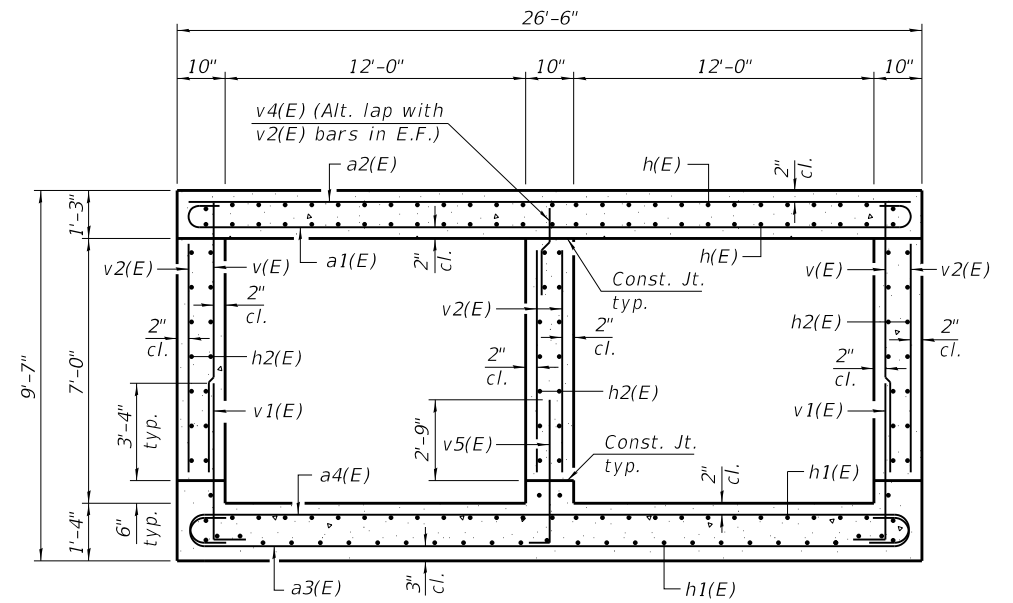
* Bars typical for each stage of construction for double box



RAIL POST ELEVATION
Inside Face

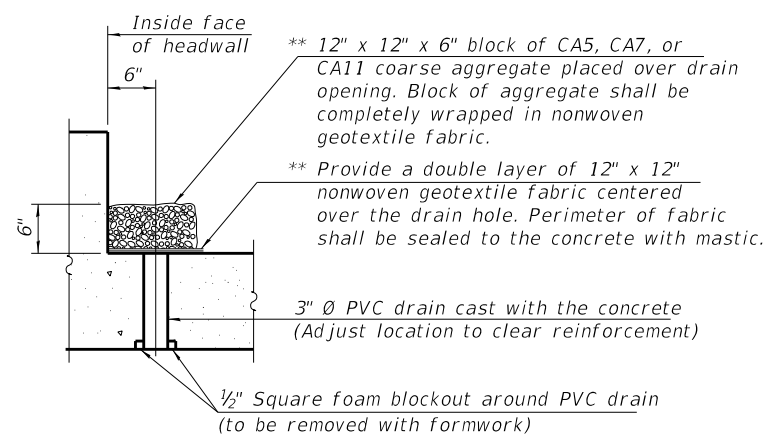


WESTBOUND RAIL POST PLAN
Eastbound Similar



SECTION THRU BARREL NEAR ROADWAY

** 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.



DRAIN DETAIL
(4 locations)

(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 associated work.)

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar. No reduction in quantities shall be made for this substitution.
For Section A-A, Section Thru Headwall, additional details and Bill of Material, see Sheet 7 of 13.

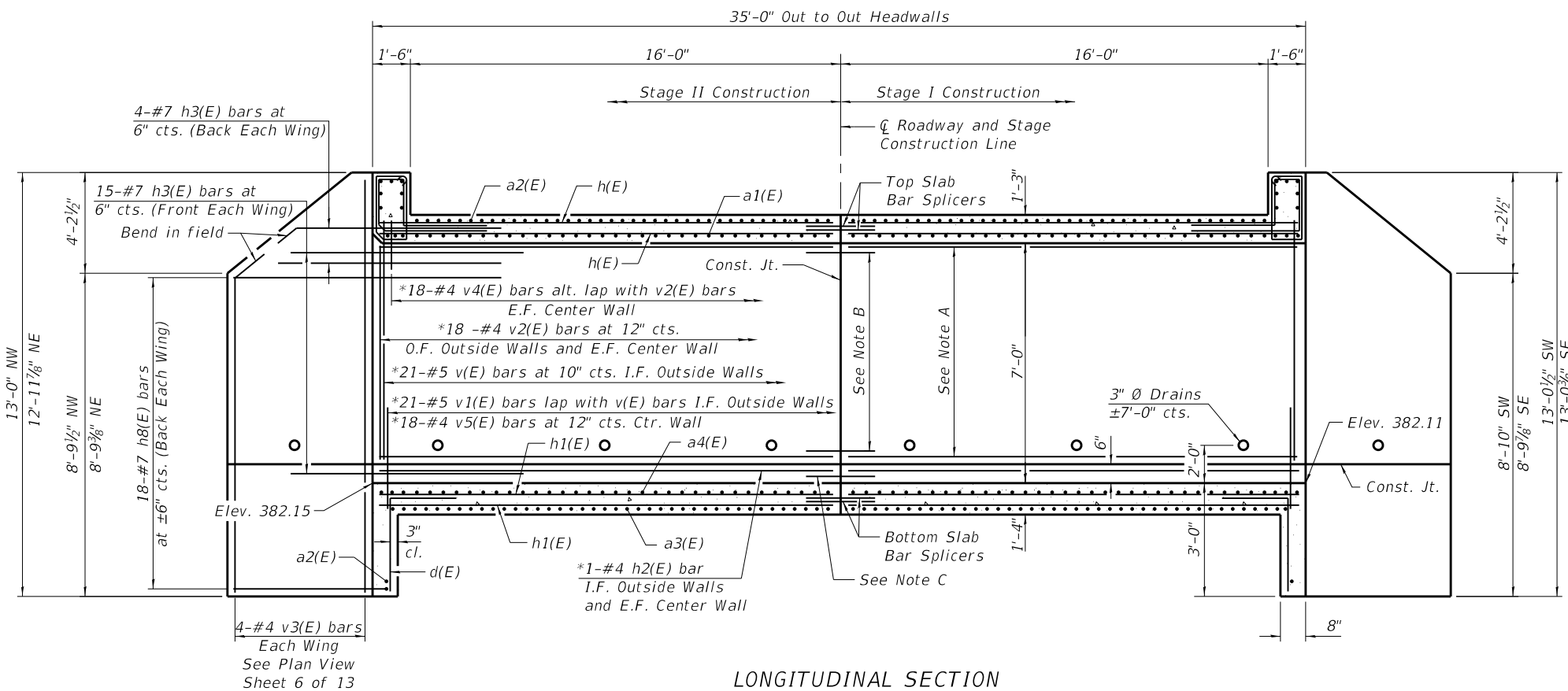


USER NAME =	DESIGNED - YSS	REVISED -
PLOT SCALE =	CHECKED - LNB	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 1
STRUCTURE NO. 097-2016
SHEET NO. 6 OF 13 SHEETS

F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 32
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



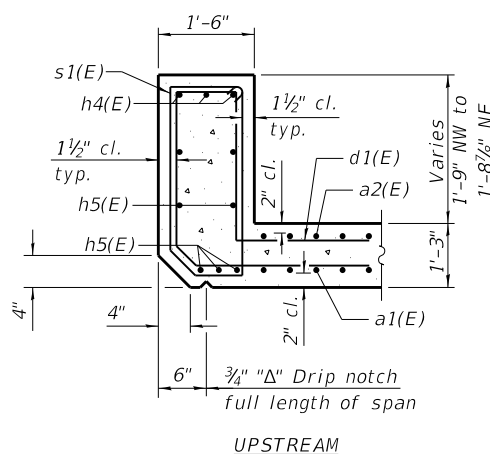
LONGITUDINAL SECTION
(Looking Upstation)

Note A: *7-#4 h2(E) bars at 12" cts. E.F. Outside Walls
*7-#4 h2(E) bars at 12" cts. E.F. Center Wall

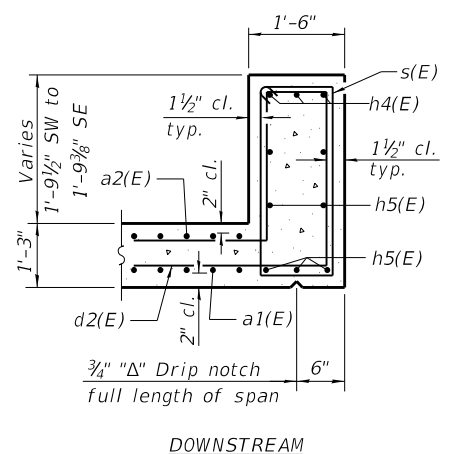
Note B: 7-Bar Splicers (E) for #4 bars, E.F. Outside Walls (28-total)
7-Bar Splicers (E) for #4 bars, E.F. Center Wall (14-total)

Note C: 1-Bar Splicer (E) for #4 bar, I.F. Outside Walls and
E.F. Center Wall (4-total)

* Bars typical for each stage of construction for double box



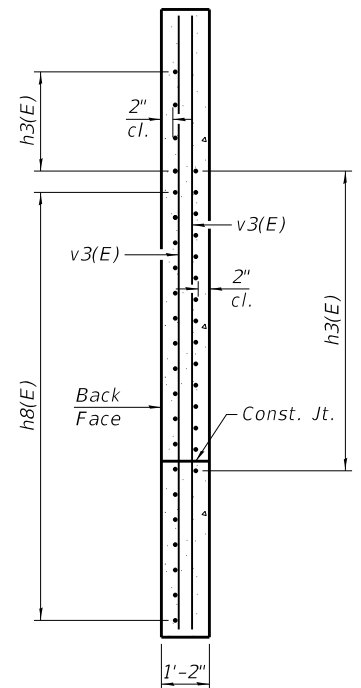
UPSTREAM



DOWNSTREAM

SECTION THRU HEADWALL
h(E) bars not shown for clarity.

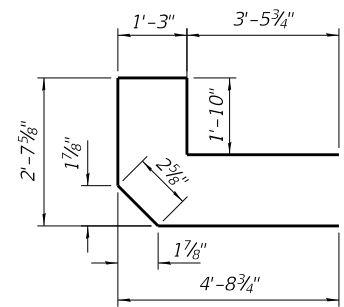
Notes:
For Plan View and location of Section A-A, see Sheet 6 of 13.
For Bar Splicer Details, see Sheet 9 of 13.



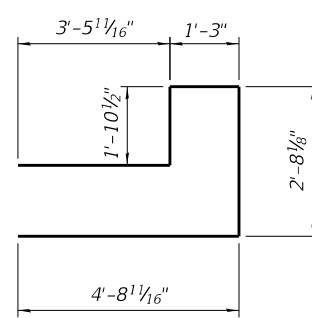
SECTION A-A

BILL OF MATERIAL

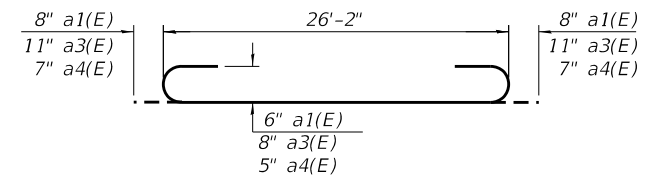
Bar	No.	Size	Length	Shape
a1(E)	64	#6	27'-6"	U
a2(E)	80	#5	26'-2"	U
a3(E)	80	#8	28'-0"	U
a4(E)	70	#5	27'-4"	U
d(E)	50	#4	4'-8"	U
d1(E)	59	#5	13'-10"	U
d2(E)	59	#5	14'-0"	U
h(E)	108	#5	17'-2"	U
h1(E)	108	#5	17'-2"	U
h2(E)	92	#4	17'-2"	U
h3(E)	76	#7	8'-0"	U
h4(E)	6	#7	24'-9"	U
h5(E)	14	#6	24'-9"	U
h8(E)	72	#7	16'-3"	U
s(E)	26	#4	8'-10"	U
s1(E)	26	#4	8'-7"	U
v(E)	88	#5	7'-5"	U
v1(E)	88	#5	7'-4"	U
v2(E)	144	#4	6'-2"	U
v3(E)	16	#4	12'-8"	U
v4(E)	36	#4	4'-0"	U
v5(E)	36	#4	6'-4"	U
Reinforcement Bars, Epoxy Coated		Pound	26,690	
Concrete Box Culverts		Cu. Yd.	145.0	



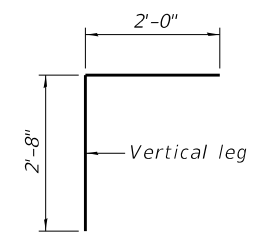
BAR d1(E)



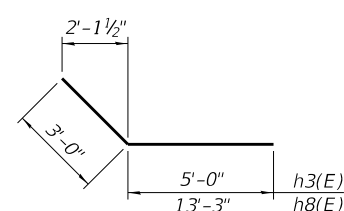
BAR d2(E)



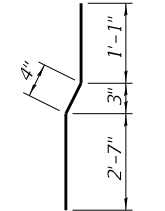
BARS a1(E), a3(E) & a4(E)



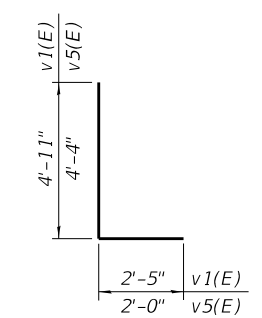
BAR d(E)



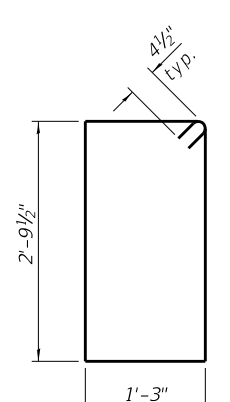
BARS h3(E) & h8(E)



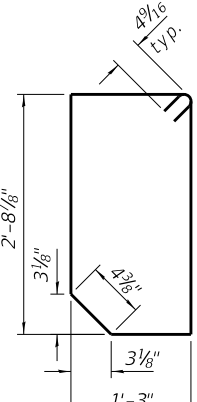
BAR v4(E)



BARS v1(E) & v5(E)



BAR s(E)



BAR s1(E)



USER NAME =	DESIGNED - YSS	REVISED -
PLOT SCALE =	CHECKED - LNB	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

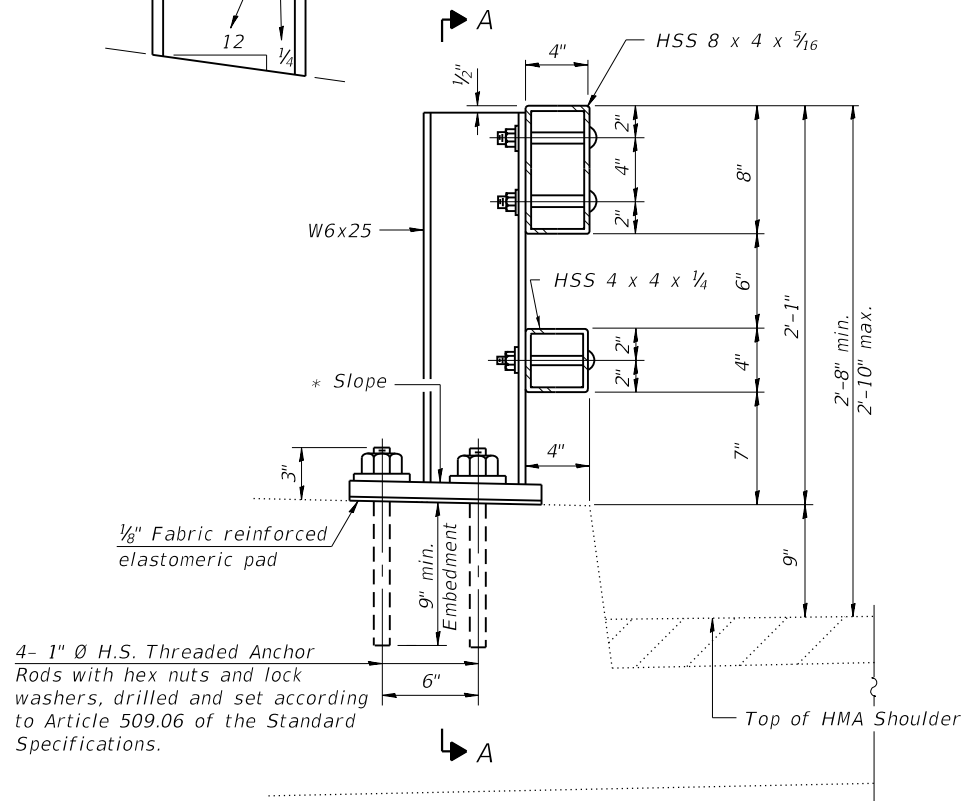
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 2
STRUCTURE NO. 097-2016

SHEET NO. 7 OF 13 SHEETS

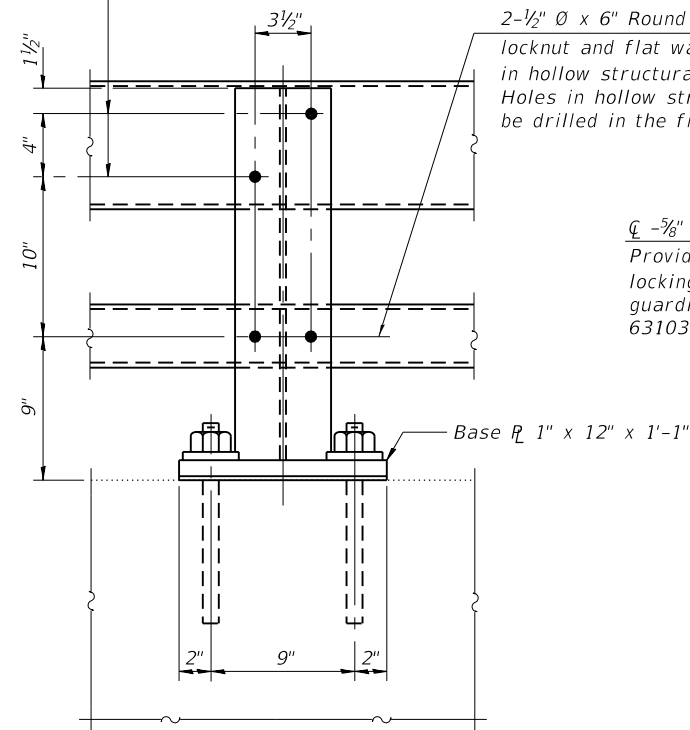
F.A.P. RTE. 877	SECTION 101B-3	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78264	

* Cut bottom end of post to curb slope.



SECTION AT RAIL POST

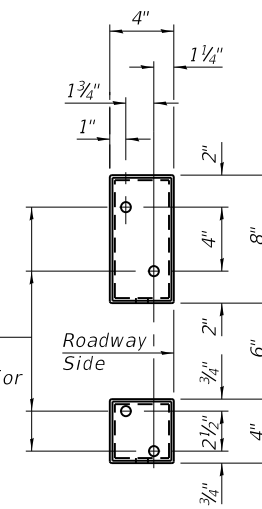
2-3/4" Ø x 6" Round Head Bolts with locknut and flat washer. 7/8" Ø Holes in tubing and posts. Holes in hollow structural section may be drilled in the field.



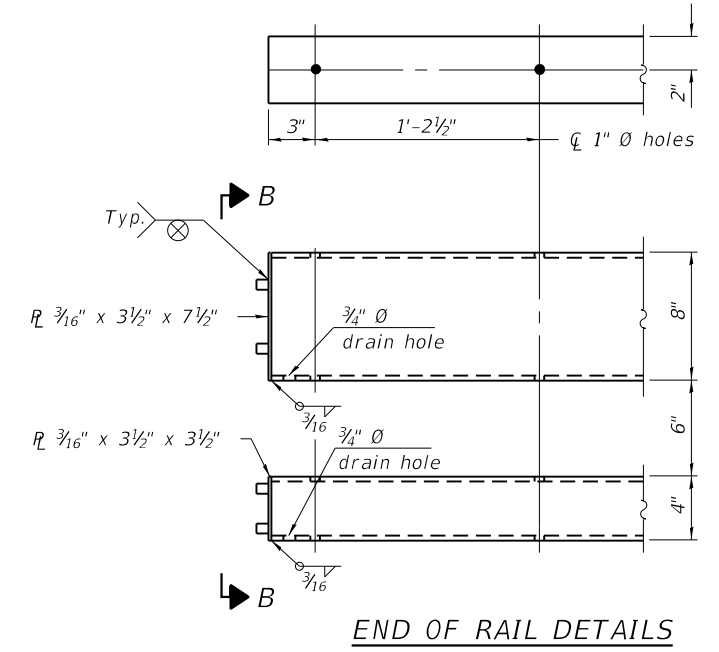
SECTION A-A

2-1/2" Ø x 6" Round Head Bolts with locknut and flat washer. 5/8" Ø Holes in hollow structural section and post. Holes in hollow structural section may be drilled in the field.

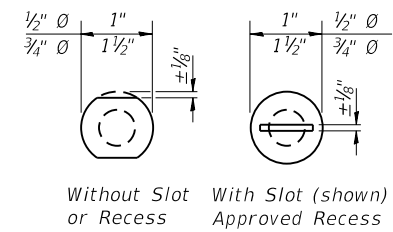
4- 5/8" reduced base welded studs. Provide 4- 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



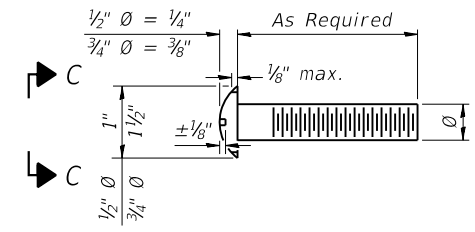
VIEW B-B



END OF RAIL DETAILS

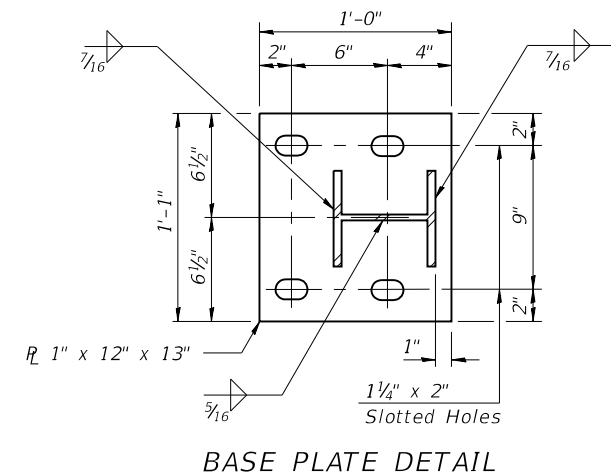


VIEW C-C

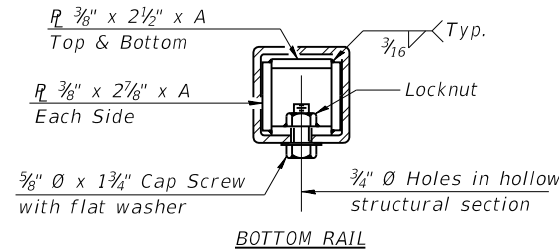


DETAIL OF 1/2" Ø & 3/4" Ø ROUND HEAD BOLTS

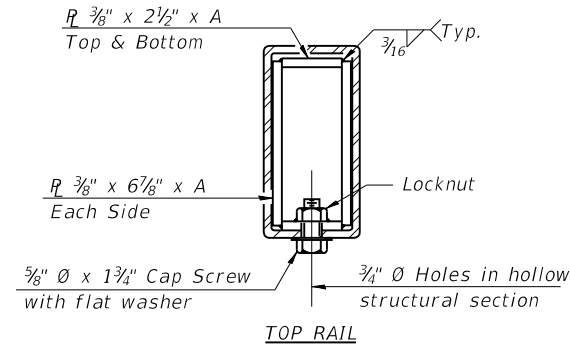
4- 1" Ø H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.



BASE PLATE DETAIL

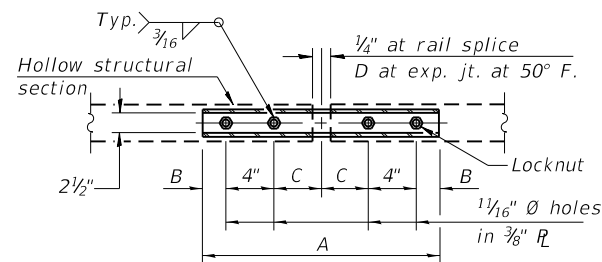


BOTTOM RAIL

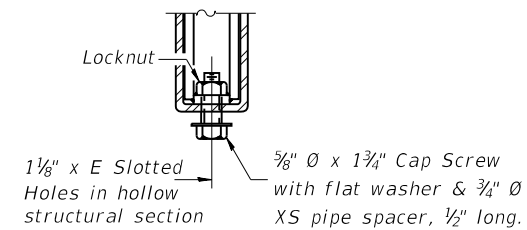


TOP RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:

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

SPLICE DIMENSIONS

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	56

R-31

2-17-2017

(6'-3" Maximum Post Spacing)



USER NAME =	DESIGNED - LNB	REVISED -
PLOT SCALE =	CHECKED - CSG	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

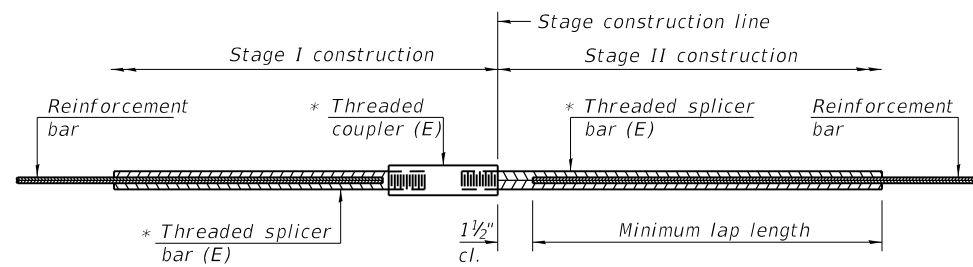
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
STRUCTURE NO. 097-2016

SHEET NO. 8 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	34
CONTRACT NO. 78264				

ILLINOIS FED. AID PROJECT

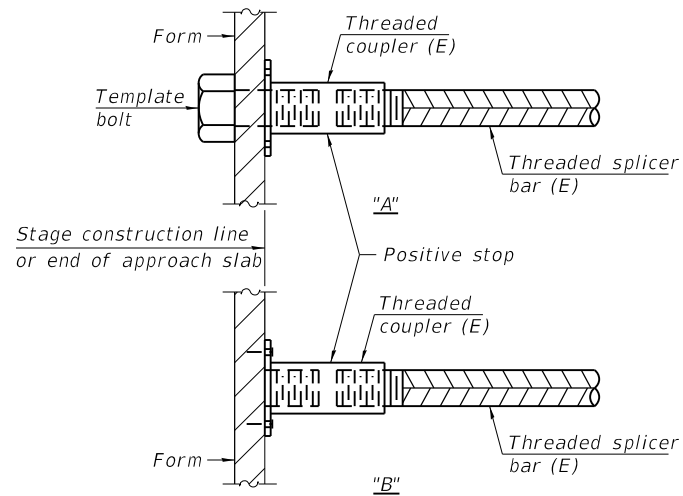


STANDARD BAR SPLICER ASSEMBLY

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	54	3'-2"
Top of Bottom Slab	#5	27	3'-7"
Bottom of Bottom Slab	#5	27	3'-2"
Culvert Walls	#4	46	2'-11"

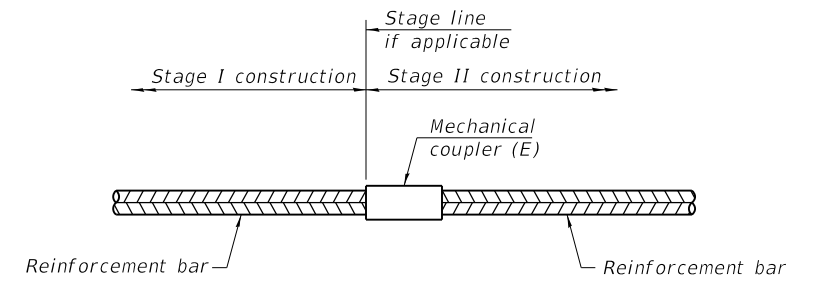


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

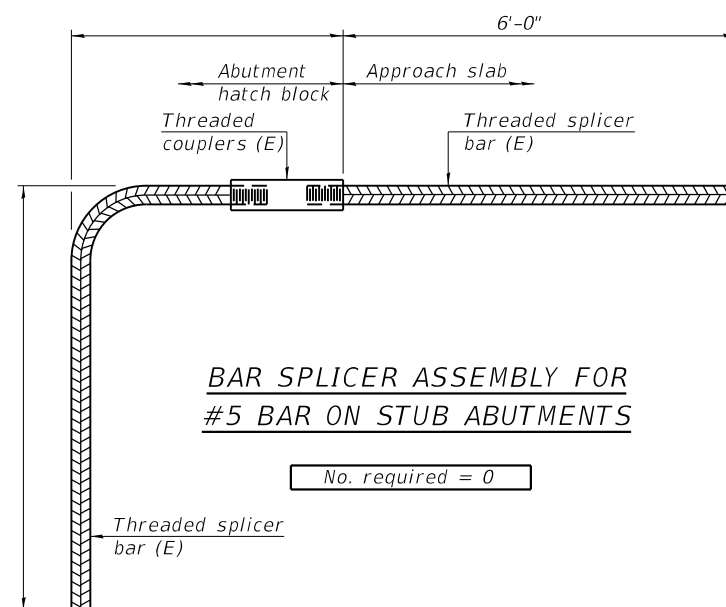
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

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.

BSD-1

2-17-2017



USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 097-2016

SHEET NO. 9 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	35
CONTRACT NO. 78264				

ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 2

FAP 877 (IL 141) Over stream
Route: FAP 877 (IL 141) Structure Number: 097-0064 Date: 8/24/2011
Section 101 Bored By: R Moberly
County: White Location: 3 mi. W of New Haven Checked By: R Graeff

Boring No 2-S Station 352+51 Offset 10' Lt CL Ground Surface 391.6 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: 382.8 Ground Water Elevation when Drilling 364.6 At Completion At: Hrs:	D E P T H	B L O W S	Qu tsf	W%
Asphalt							2	1.2B	25
390.1							2		
Medium, very moist, brown, Silty Clay A-6		1			364.6		WH		
		1	0.8B	24			1	0.6B	32
		2					2		
387.1					362.1				
Medium, moist to very moist, grey, Clay to Silty Clay A7-6	5.0	1			30.0		1		
		2	0.8B	24			2	1.0S	28
		2					3		
384.6					359.6				
Stiff, moist, grey, Clay A7-6		1					WH		
		2	1.7B	26			1	0.7B	24
		3					1		
382.1					35.0		WH		
Stiff, moist, grey mottled brown, Clay A7-6	10.0	1					1	0.6B	24
		2	1.4B	26			2		
		3							
379.6							WH		
Medium, very moist, grey mottled brown, Clay A7-6		1					1	0.7B	25
		2	0.9B	29			2		
377.1							WH		
Soft, very moist, brown mottled grey, Silty Clay to Silty Clay Loam A-6	15.0	WH			40.0		WH		
		1	0.3B	29			WH	0.6B	35
		1					1		
374.6									
Stiff, moist, brown mottled grey, Silty Clay to Silty Clay Loam A-6		1							
		2	1.3B	23					
		3							
372.1					347.1				
Medium, very moist, grey, Clay A7-6	20.0	2			45.0		WH		
		3	0.7B	33			WH	0.5B	20
		3					1		
369.6					345.1				
Stiff, moist, grey, Clay A7-6 with Silt lenses		1					100/6"		
		2	1.6B	24					
		3							
25.0		1			50.0		100/8"		

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2
Date: 8/24/2011

Route: FAP 877 (IL 141)
Section: 101
County: White

Boring No: 2-S Station: 352+51 Offset: 10' Lt CL Ground Surface: 391.6 Ft	D E P T H	B L O W S	Qu tsf	W%		D E P T H	B L O W S	Qu tsf	W%
Hard, damp to dry, grey, Clay Shale									
Note: Shale to soft to core									
					55.0		100/6"		80.0
334.1							100/6"		
Bottom of hole = 57.5 feet									
Free water observed at 27.0 feet					60.0				85.0
Elevation referenced to BM 108 at SW corner; Elev. = 391.3 feet									
Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)									
To convert "N" values to "N60" multiply by 1.25									
					65.0				90.0
					70.0				95.0
					75.0				100.0

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)



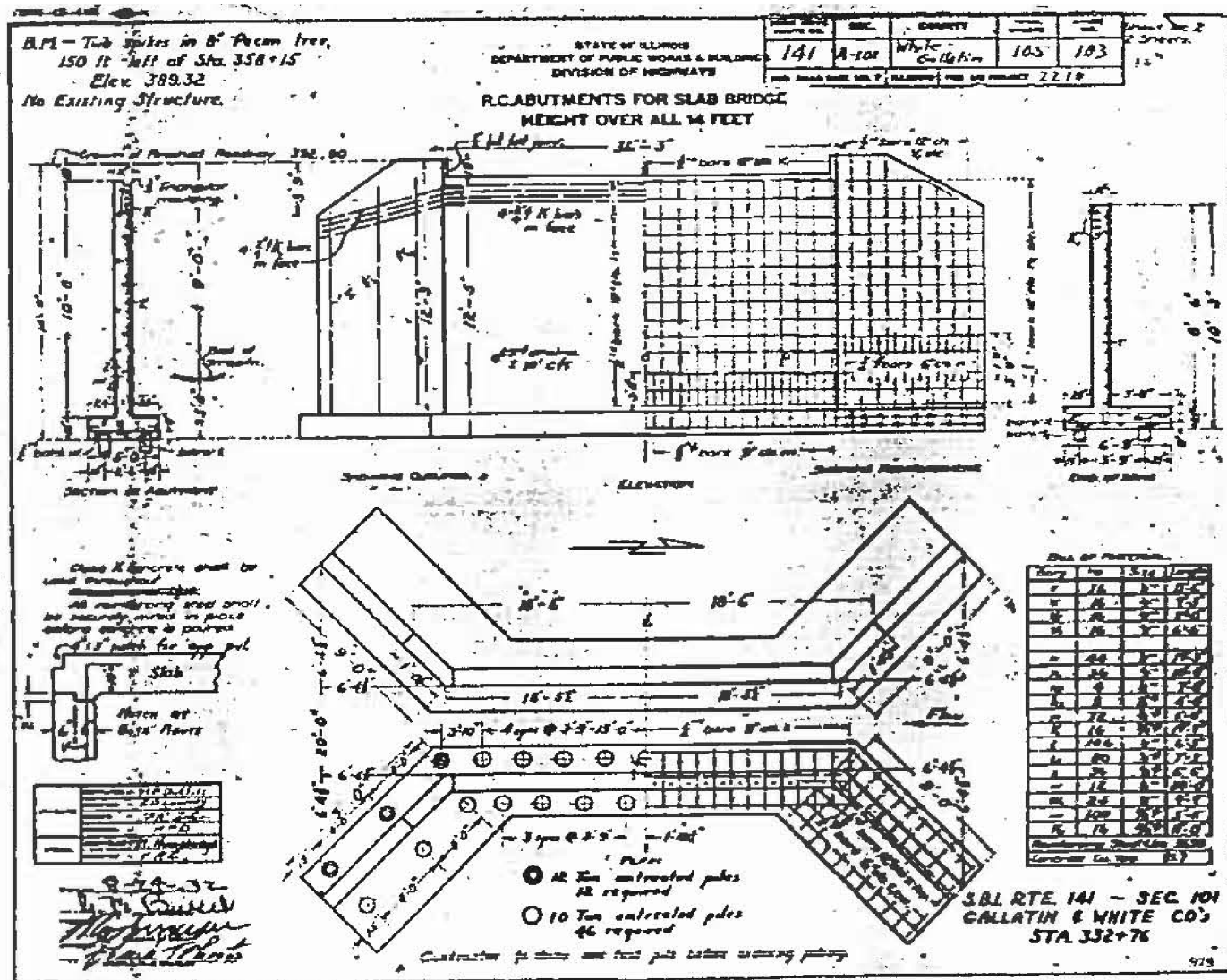
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS - 2
STRUCTURE NO. 097-2016

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	37
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

SHEET NO. 11 OF 13 SHEETS



FOR INFORMATION ONLY



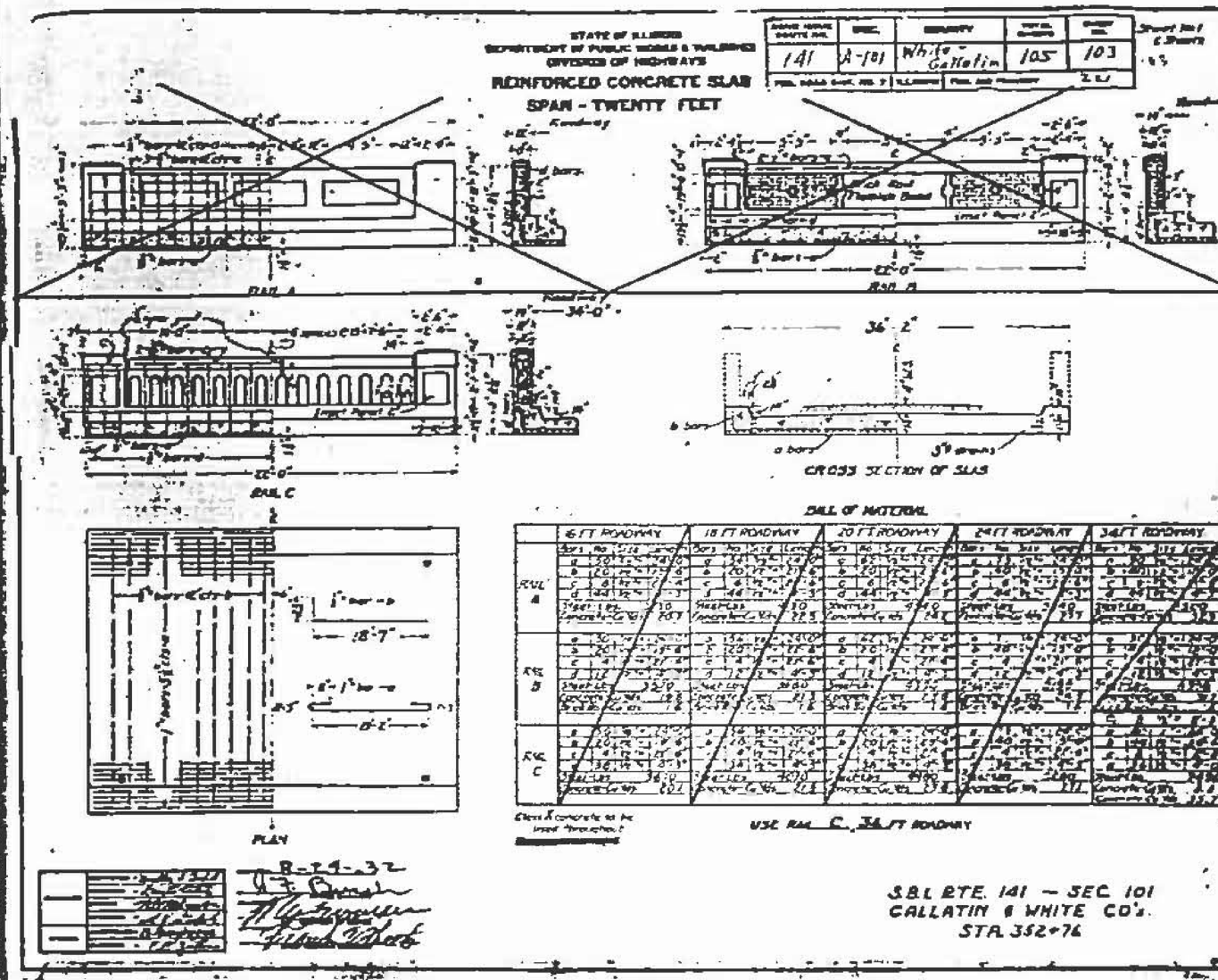
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - 1 (097-0064)
STRUCTURE NO. 097-2016

SHEET NO. 12 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	38
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY



USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS - 2 (097-0064)
STRUCTURE NO. 097-2016**

SHEET NO. 13 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	39
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

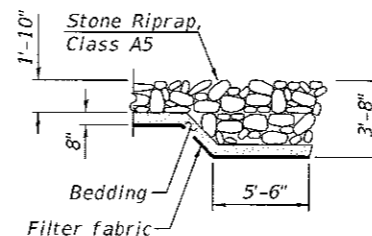
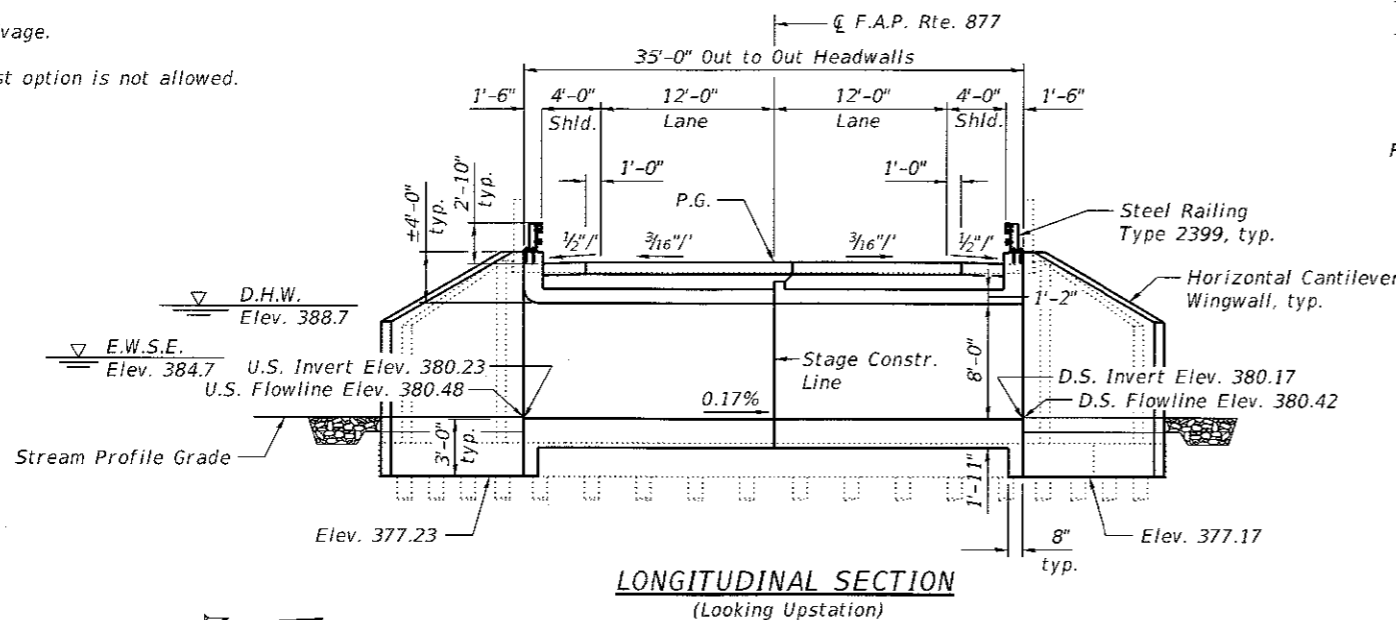
Bench Mark: BM 109 - Chiseled square in southwest wingwall of SN 097-0029, Elev. 391.40.

Existing Structure: SN 097-0029 was originally built in 1933 as SBI Route 141 (Section A-101) and resurfaced in 1970 as SBI Route 141 (Section 101W, RS). The existing structure is a 28 foot (back to back abutments) single span reinforced concrete slab bridge. The substructure consists of closed abutments founded on footings on timber piles. The deck measures 32'-8" between curbs and the overall out to out width of the bridge is 36'-2". The existing superstructure and abutment walls are to be removed. The existing foundation is to remain in place except as noted.

Traffic to be maintained utilizing stage construction.

No salvage.

Precast option is not allowed.

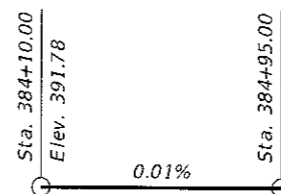


SECTION A-A

* See Roadway Plans for riprap layout and payment

LEGEND

- Partial Removal of Existing Foundation in accordance with Section 501 of the Standard Specifications
- Partial Removal of upper portion of existing footing (see Detail A on General Structure Data sheet)



PROFILE GRADE (Along Center Roadway)

STATION 384+52.00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 877 SEC. 101B-4
LOADING HL-93
STRUCTURE NO. 097-2017

NAME PLATE
See Std. 515001

INDEX OF SHEETS

- General Plan and Elevation
- General Structure Data
- Pre-Stage 1 Shoring Details
- Stage Construction Details
- Temporary Concrete Barrier for Stage Construction
- Culvert Details - 1
- Culvert Details - 2
- Steel Railing, Type 2399
- Bar Splicer Assembly Details
- Boring Logs - 1
- Boring Logs - 2
- Existing Structure Plans - 1 (097-0029)
- Existing Structure Plans - 2 (097-0029)

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

DESIGN SPECIFICATIONS
2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 and 2016 Interims

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
Fy = 60,000 psi (Reinforcement)

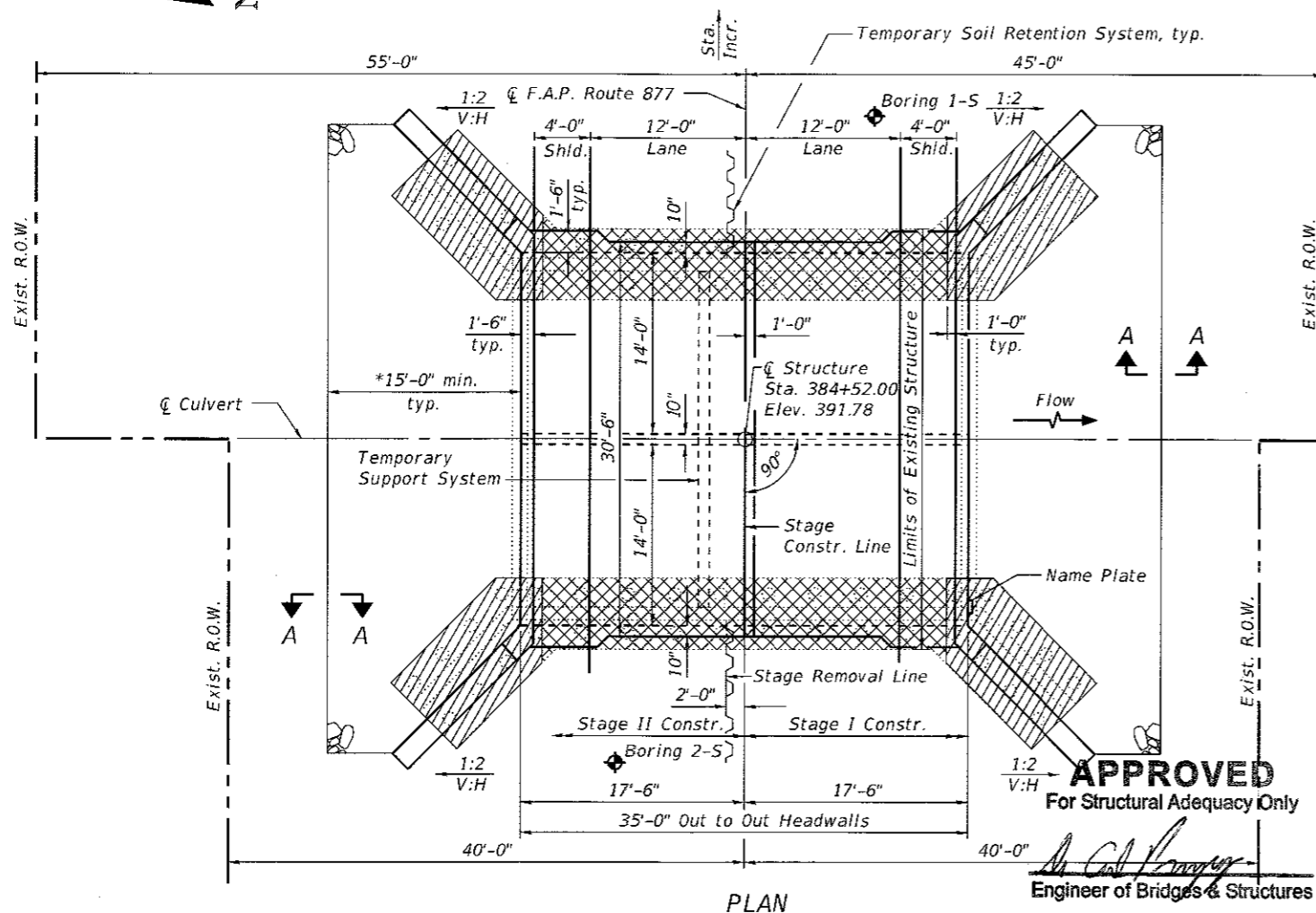
WATERWAY INFORMATION

Drainage Area = 4.2 sq. mi. Low Grade Elev. 391.63 @ Sta. 380+98

Flood		Discharge (cfs)		Waterway Opening (sq. ft.)		Natural H.W.E.	Head (ft.)		Headwater Elevation	
		Existing	Proposed	Existing	Proposed		Existing	Proposed	Existing	Proposed
10	Main Channel	1119	1145	136	217	388.3	2.1	1.7	390.4	390.0
	Relief Structure	779	753	110	141					
	Total	1898	1898	246	358					
OVT (E)	Main Channel	1221	1480	142	217	388.5	2.8	2.8	391.3	391.3
	Relief Structure	862	1100	115	147					
	Total	2083	2580	257	364					
OVT (P)	Main Channel	1146	1480	143	217	388.6	2.8	2.7	391.4	391.2
	Relief Structure	808	1096	116	148					
	Total	1954	2576	259	365					
50	Main Channel	955	1260	146	217	388.7	2.8	2.7	391.4	391.4
	Relief Structure	674	950	118	151					
	Total	1629	2210	264	368					
100	Main Channel	631	918	150	217	388.8	2.8	2.7	391.6	391.5
	Relief Structure	434	672	121	154					
	Total	1065	1590	271	371					

Note: SN 097-2017 is the main channel structure.

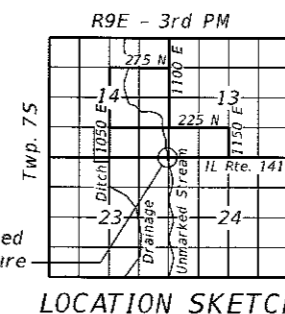
10 year velocity through existing bridge = 6.98 ft/s
10 year velocity through proposed bridge = 5.28 ft/s



PLAN

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

JERILYN M. HASSARD
081-006521
LICENSED STRUCTURAL ENGINEER OF ILLINOIS
JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-006521
EXPIRES 11/30/2018



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 141 OVER
UNMARKED STREAM
F.A.P. ROUTE 877 - SEC. 101B-4
WHITE COUNTY
STATION 384+52.00
STRUCTURE NO. 097-2017



USER NAME =	DESIGNED - YSS	REVISED -
PLDT SCALE =	CHECKED - LNB	REVISED -
PLDT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 13 SHEETS

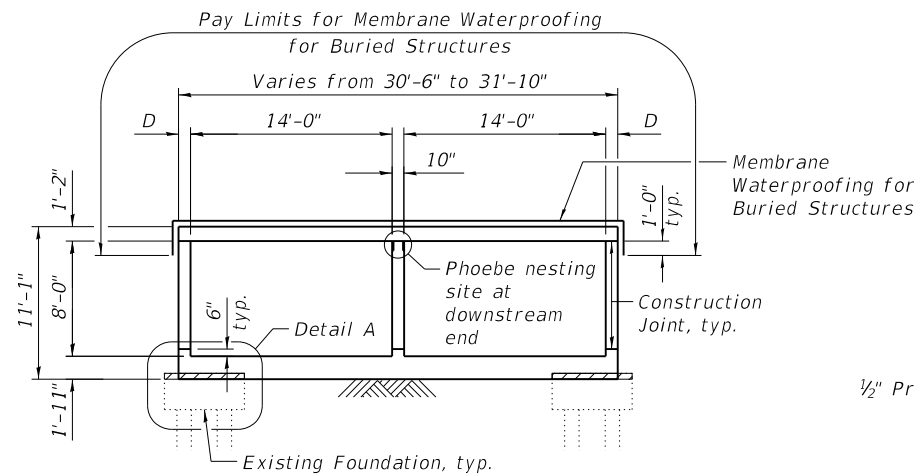
F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 40
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 The Contractor shall have the option of using either 2 bar splicers or 2 cast in place inserts at 6" centers at the mid-depth of the PCC Pavement. The bar splicers or inserts shall have a minimum proof load of 5,000 pounds. Along with the anchoring devices, the Contractor shall provide one steel retainer plate, and 2, 1/2" dia. bolts and washers every 6 feet as shown in Detail II on Standard R-27 from Sta. 384+10 to Sta. 384+95 for Stage II traffic. Cost to be included with Temporary Concrete Barrier.

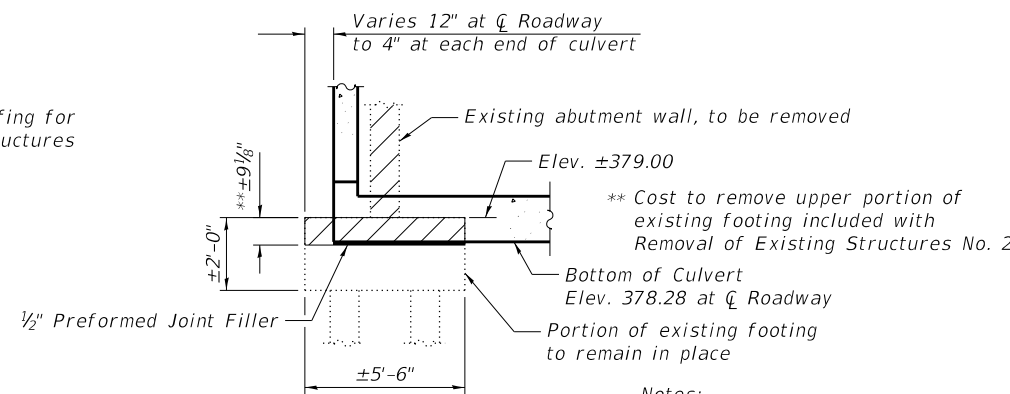
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	464
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	808
Reinforcement Bars, Epoxy Coated	Pound	40,420
Bar Splicers	Each	176
Steel Railing, Type 2399	Foot	64
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	379
Concrete Box Culverts	Cu. Yd.	217.6
Temporary Support System	L. Sum	0.5
Membrane Waterproofing for Buried Structures	Sq. Yd.	127.2



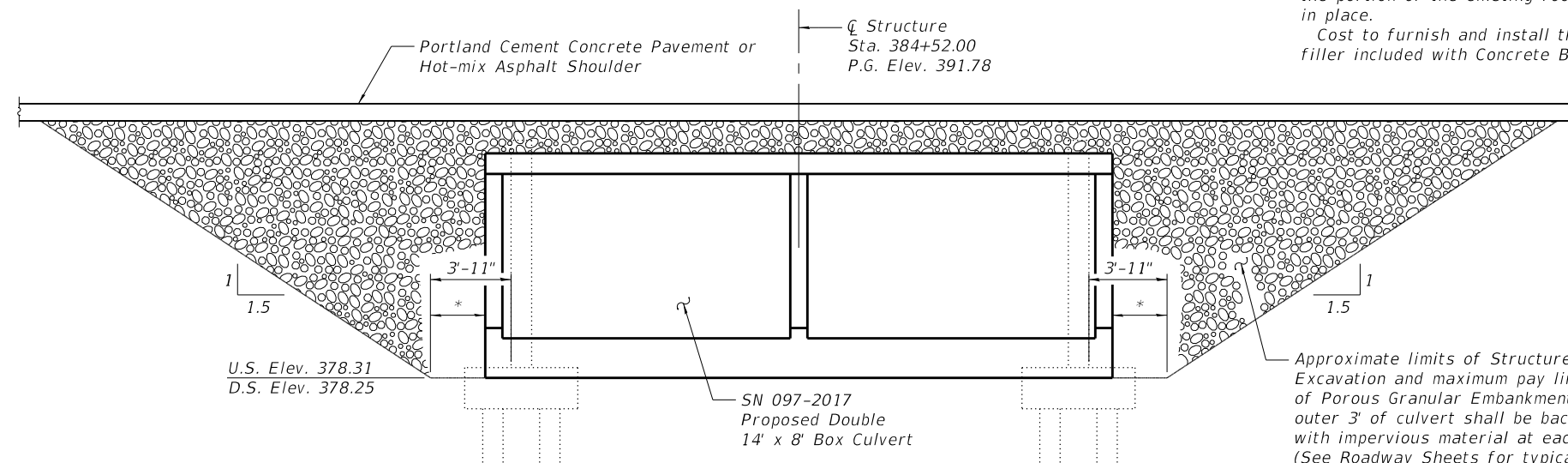
SECTION THRU BARREL

D = Varies 10" at \bar{C} Roadway to 1'-6" at each end of culvert



DETAIL A

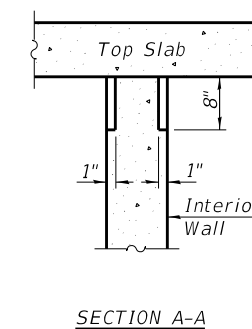
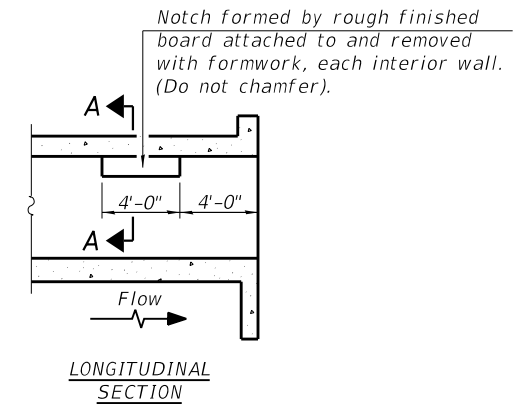
Notes:
 Preformed joint filler shall be in accordance with Section 1051.09 of the Standard Specifications.
 Preformed joint filler will be installed at the interface between the new double box culvert and the portion of the existing footing that is to remain in place.
 Cost to furnish and install the preformed joint filler included with Concrete Box Culverts.



POROUS GRANULAR EMBANKMENT SECTION AT STRUCTURE REPLACEMENT

* Varies 2'-8" at \bar{C} Roadway to 2'-0" at each end of culvert

Note:
 Porous Granular Embankment shall be CA-7 or CA-11 capped with 1'-0" of CA-6 or CA-10.



PHOEBE NESTING SITE DETAILS (Downstream End Only)



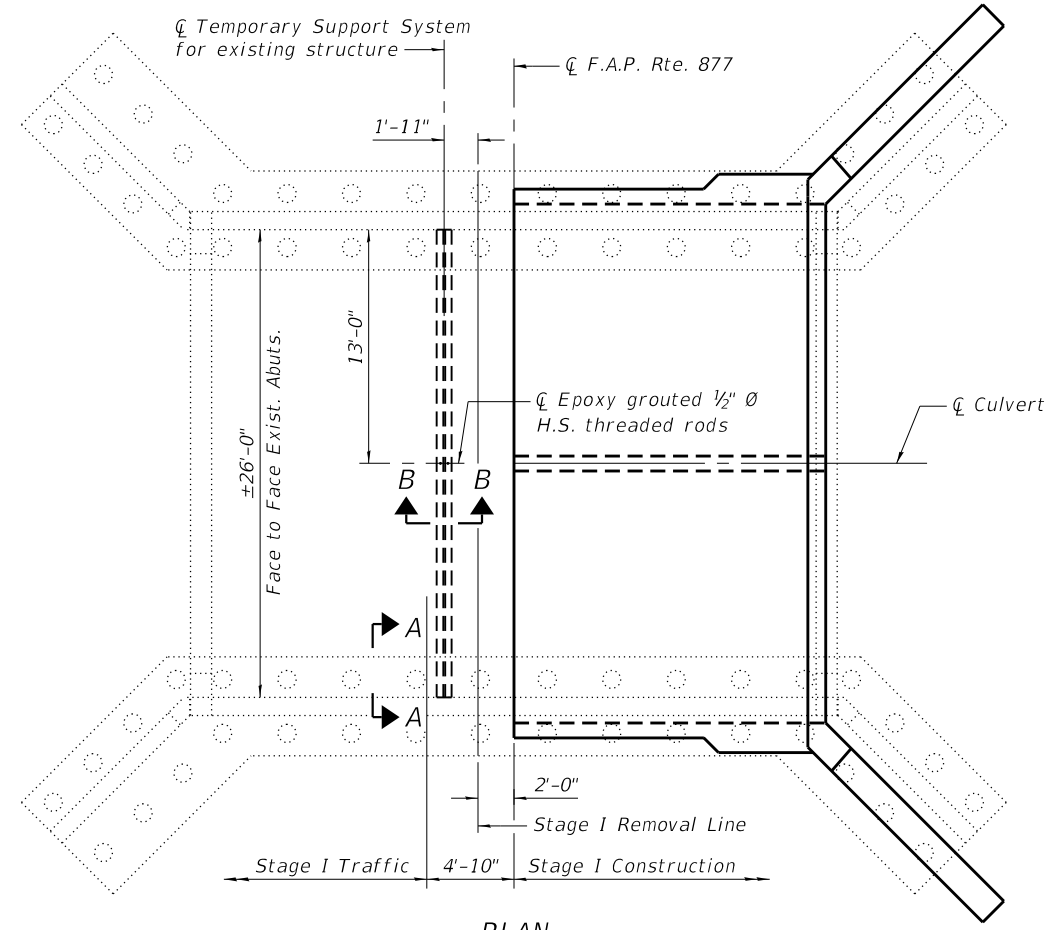
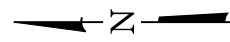
USER NAME =	DESIGNED - YSS	REVISED -
	CHECKED - LNB	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

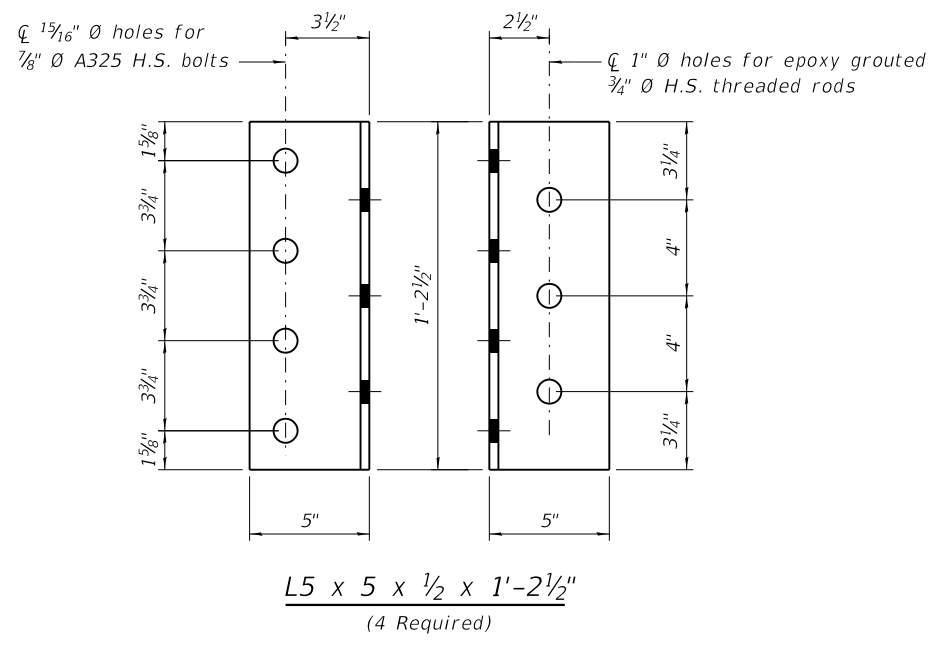
GENERAL STRUCTURE DATA STRUCTURE NO. 097-2017

SHEET NO. 2 OF 13 SHEETS

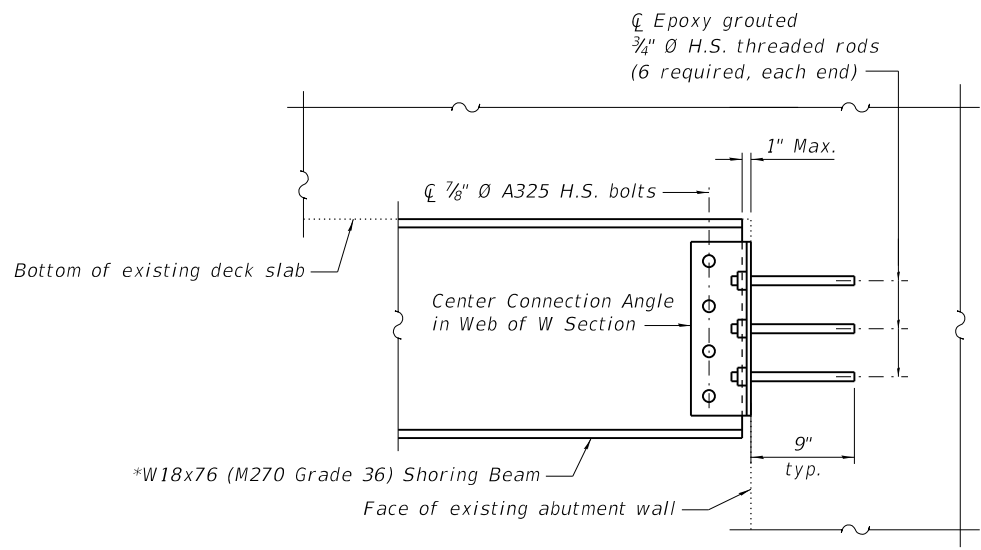
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	41
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



PLAN

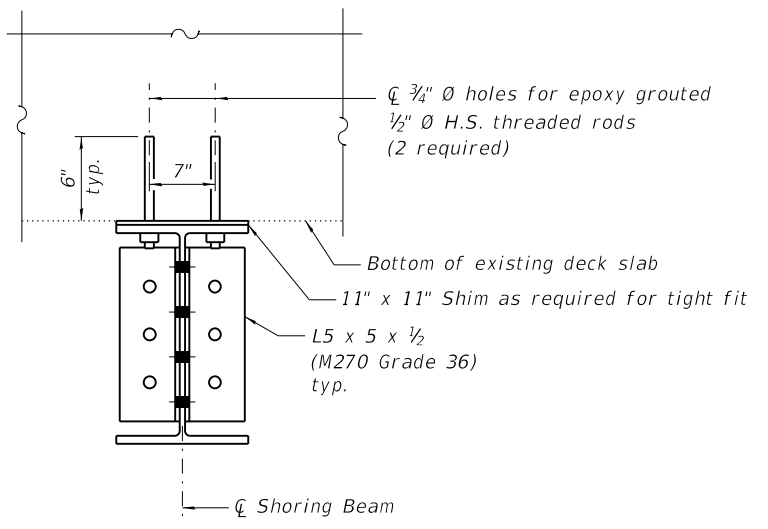


L5 x 5 x 1/2 x 1'-2 1/2"
(4 Required)



SECTION A-A

Note: Prior to drilling holes in wall for placement of connection angles, location of existing reinforcement shall be determined. If necessary, adjust location of holes in order to avoid existing reinforcement.



SECTION B-B

Notes:
 High strength threaded rods shall be ASTM F1554 Grade 105 and shall satisfy the requirements of Article 1006.09 of the Standard Specifications.
 See Section 584 of the Standard Specifications for Grouting of Anchor Rods and Bars.
 Furnishing and installing all components of the Temporary Support System, including drilling and grouting H.S. threaded rods, shall be paid for at the contract unit price per lump sum for Temporary Support System.

BILL OF MATERIAL

Item	Unit	Total
Temporary Support System	L. Sum	0.5

Note: Estimated weight of structural steel = 2,102 lbs.

* Clip corners of top and bottom flanges as needed for installation.



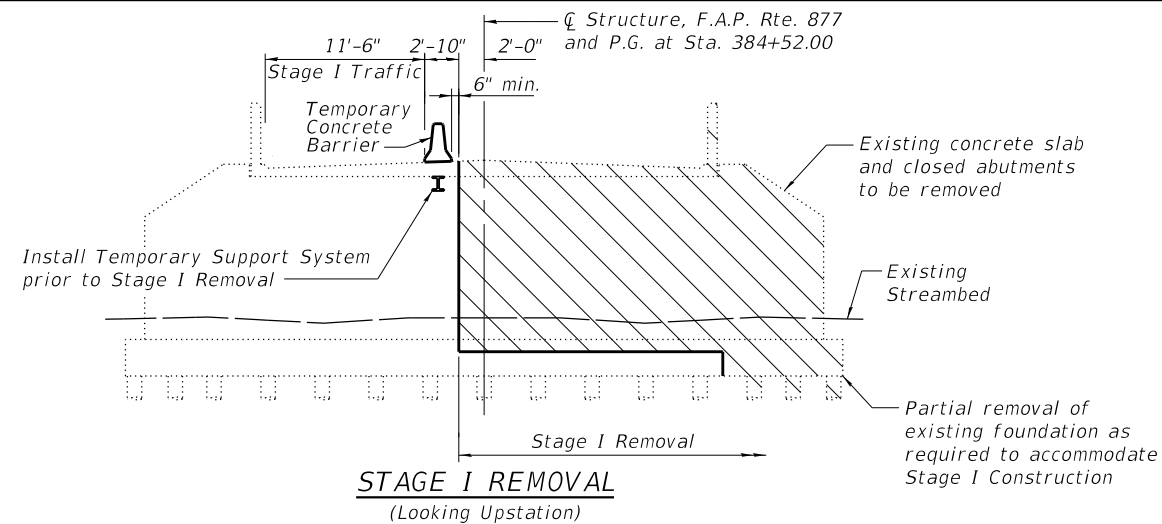
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

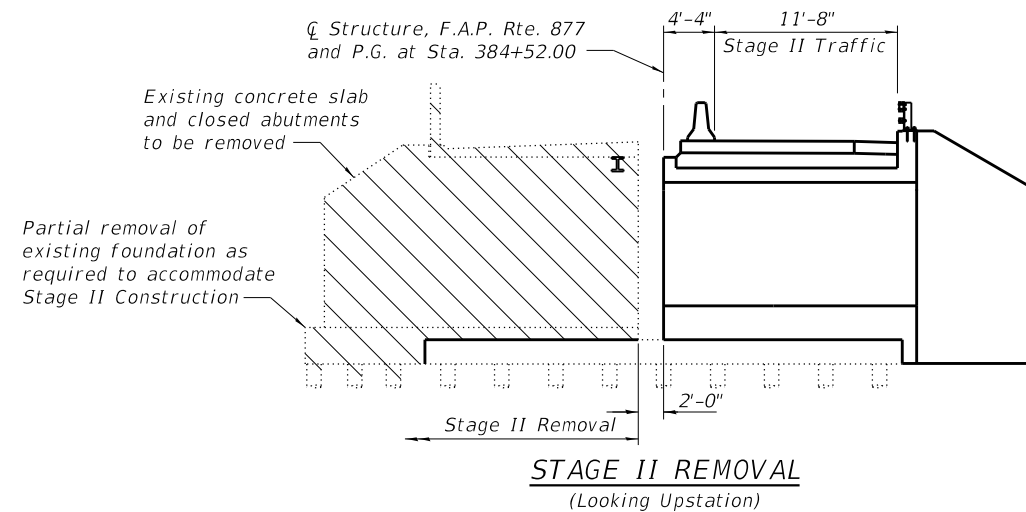
**PRE-STAGE 1 SHORING DETAILS
STRUCTURE NO. 097-2017**

SHEET NO. 3 OF 13 SHEETS

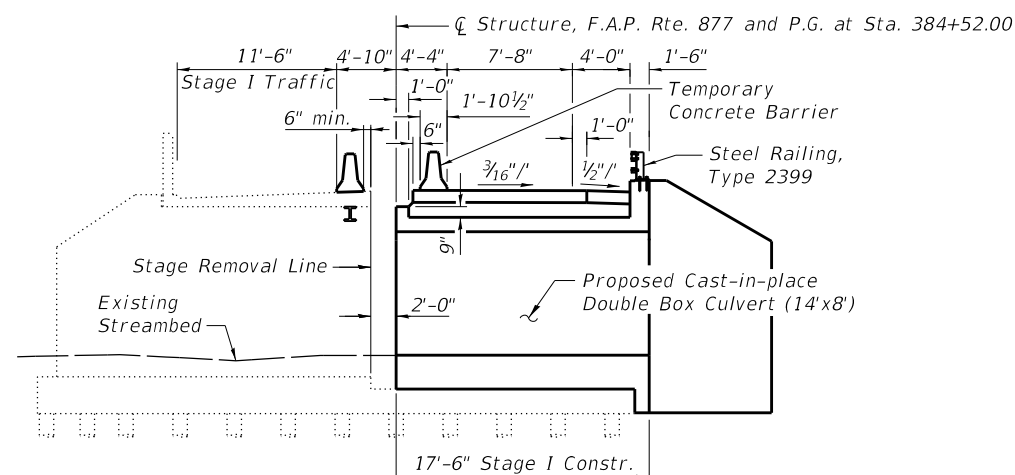
F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 42
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



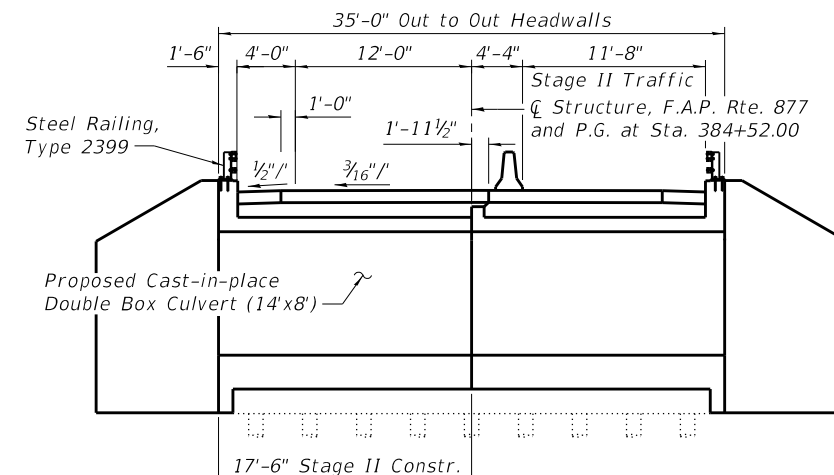
STAGE I REMOVAL
(Looking Upstation)



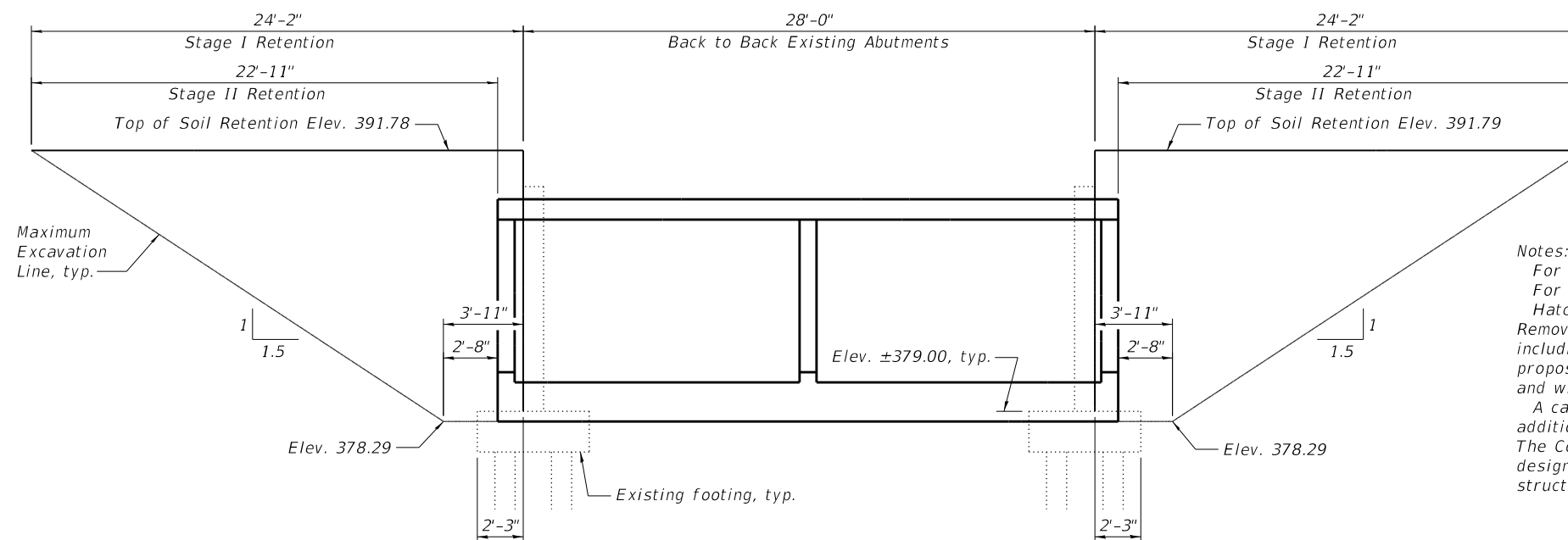
STAGE II REMOVAL
(Looking Upstation)



STAGE I CONSTRUCTION
(Looking Upstation)



STAGE II CONSTRUCTION
(Looking Upstation)



TEMPORARY SOIL RETENTION SYSTEM
(Looking North)

Notes:
 For details of Temporary Concrete Barrier see Sheet 5 of 13.
 For quantity of Temporary Concrete Barrier see Roadway Plans.
 Hatched areas indicate areas of removal to be paid for as Removal of Existing Structures No. 2. The existing structure, including foundation, shall be removed at least 1'-0" below the proposed groundline and as required for construction of culvert and wingwalls.
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations sealed by a licensed structural engineer for review and acceptance by the Engineer.

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	379



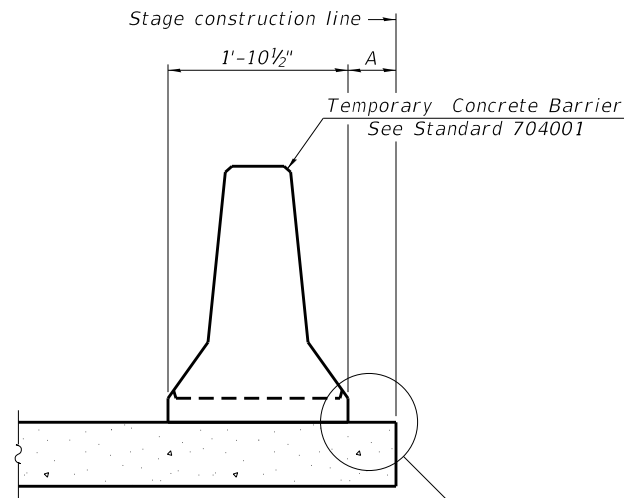
USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 097-2017

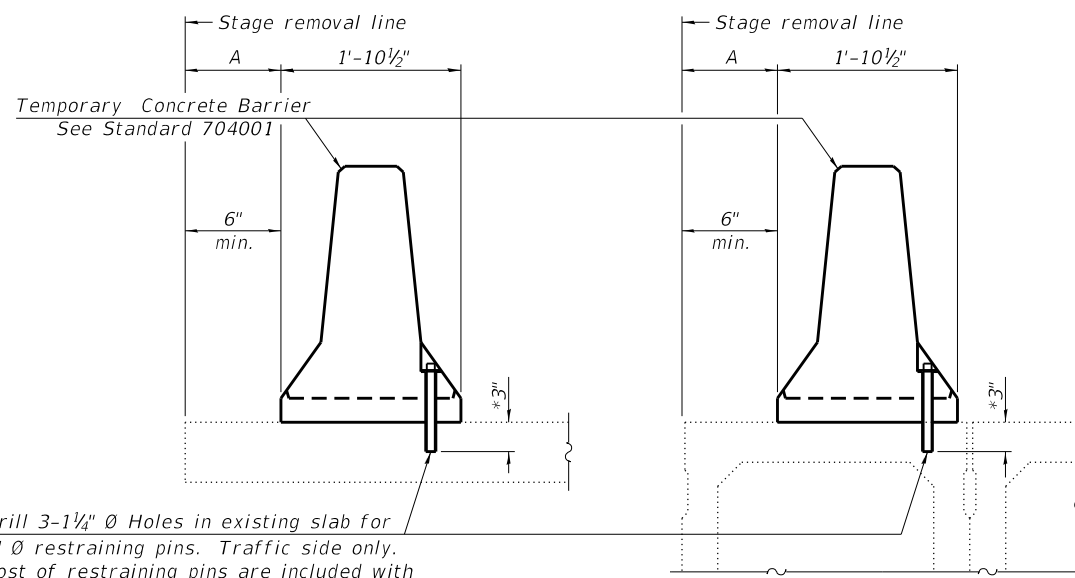
SHEET NO. 4 OF 13 SHEETS

F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 43
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

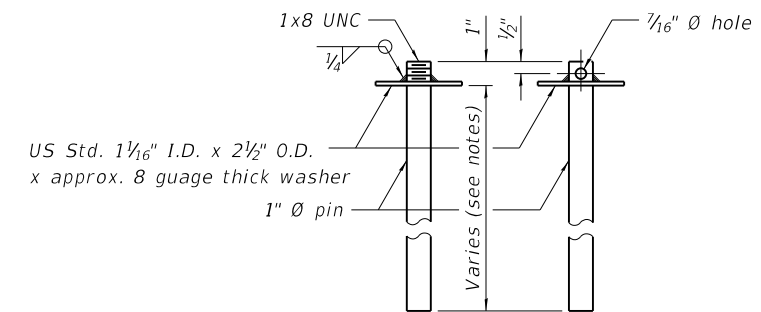


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

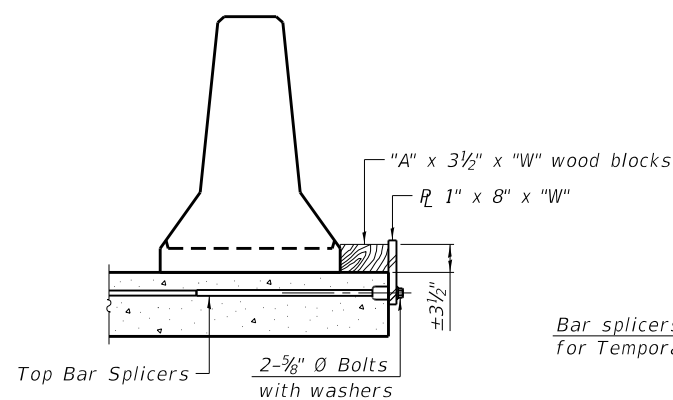
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

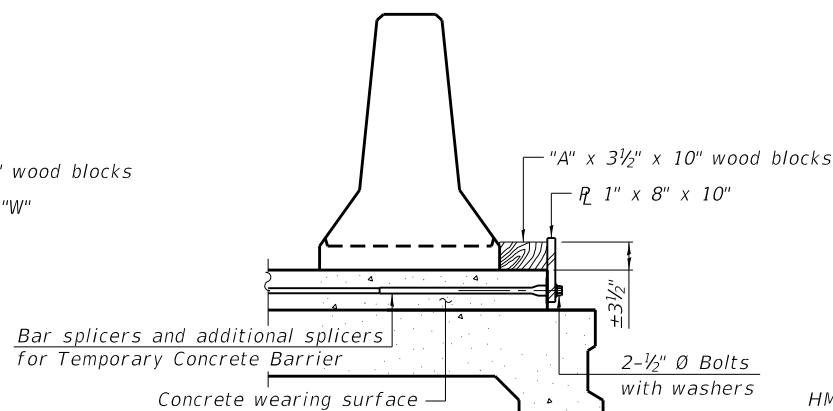


RESTRAINING PIN

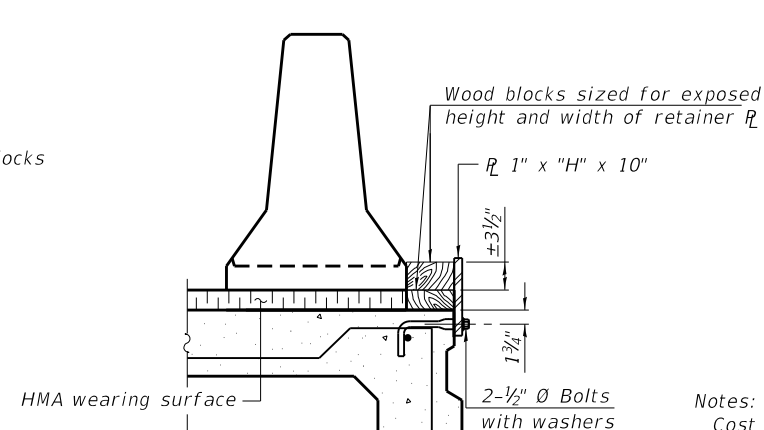
SECTIONS THRU SLAB OR DECK BEAM



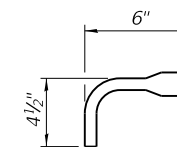
DETAIL I



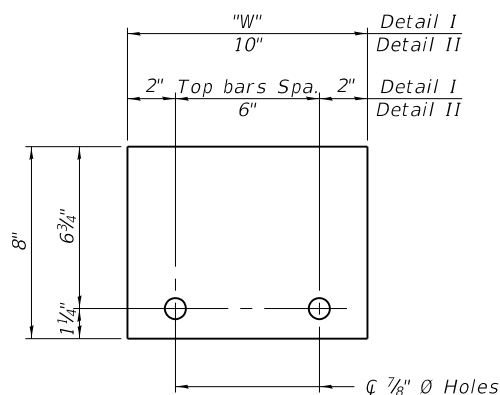
DETAIL II



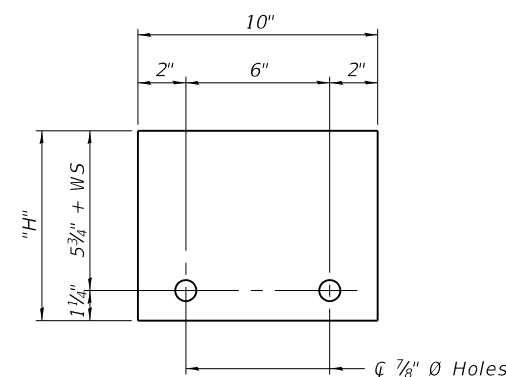
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{c} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 2-17-2017



USER NAME =	DESIGNED - LNB	REVISED -
	CHECKED - CSG	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

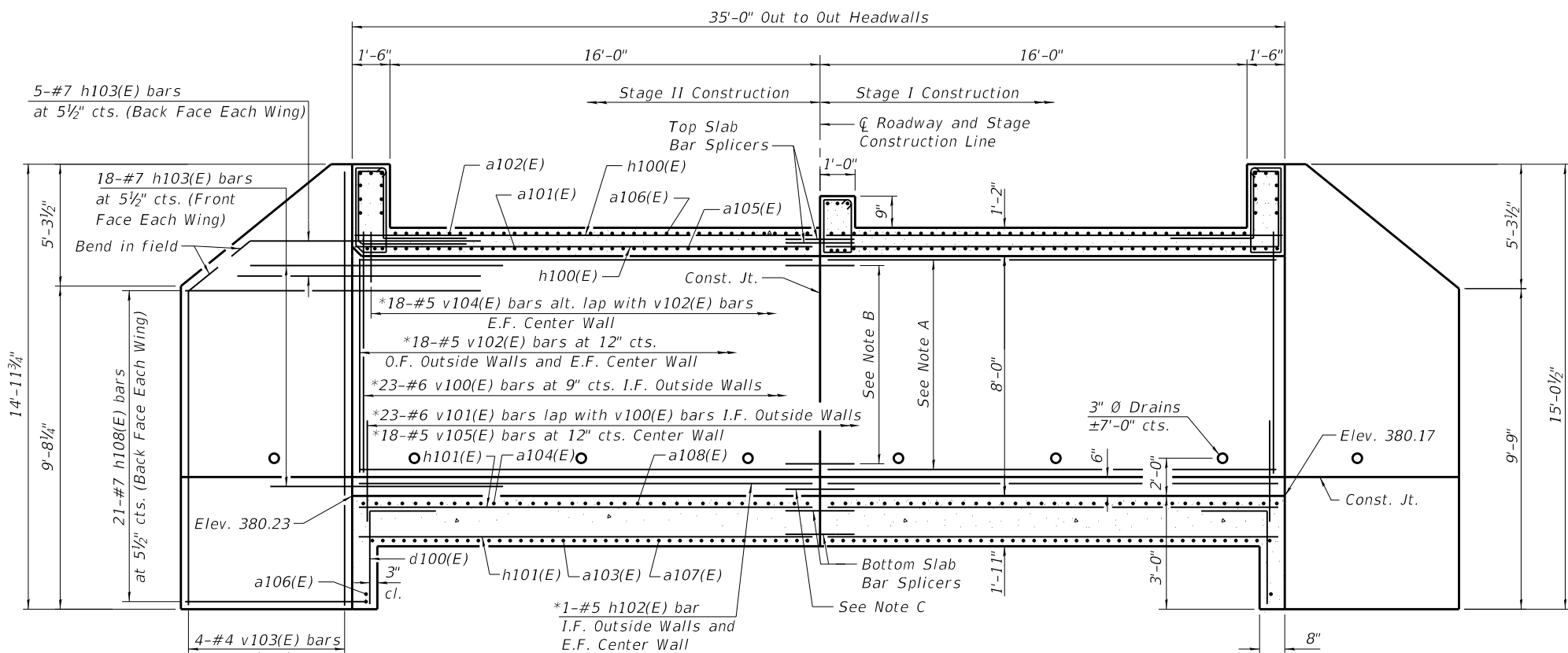
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 097-2017

SHEET NO. 5 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	44
CONTRACT NO. 78264				

ILLINOIS FED. AID PROJECT



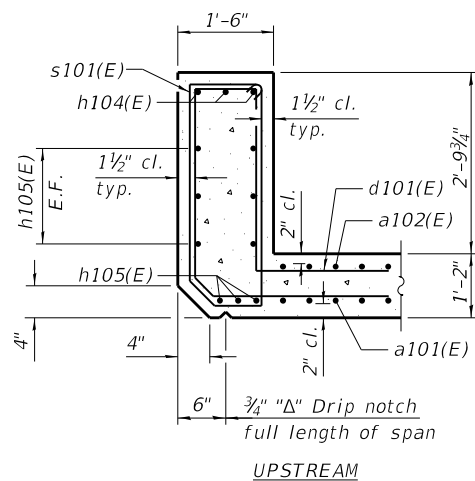
LONGITUDINAL SECTION
(Looking Upstream)

Note A: *8-#5 h102(E) bars at 12" cts. E.F. Outside Walls
*8-#5 h102(E) bars at 12" cts. E.F. Center Wall

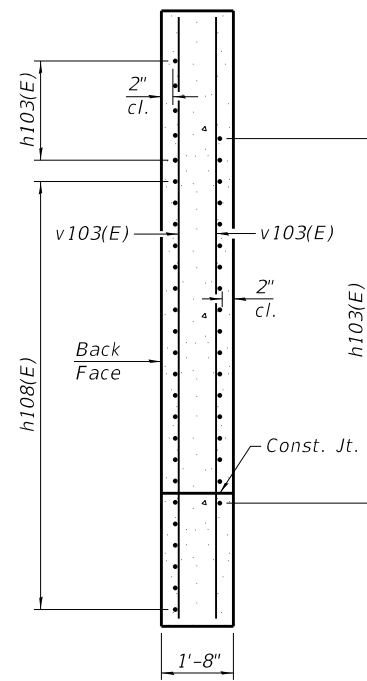
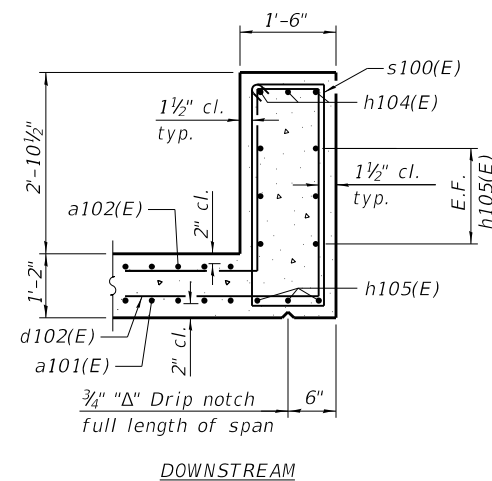
Note B: 8-Bar Splicers (E) for #5 bars, E.F. Outside Walls (32-total)
8-Bar Splicers (E) for #5 bars, E.F. Center Wall (16-total)

Note C: 1-Bar Splicer (E) for #5 bar, I.F. Outside Walls and
E.F. Center Wall (4-total)

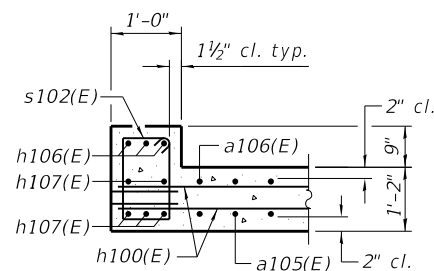
* Bars typical for each stage of construction for double box



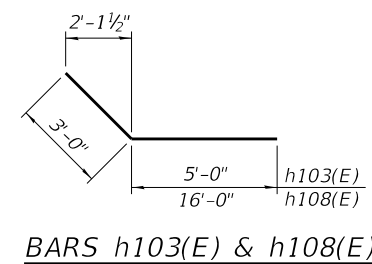
SECTION THRU HEADWALL
h100(E) bars not shown for clarity.



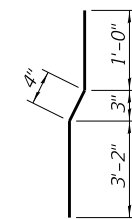
SECTION A-A



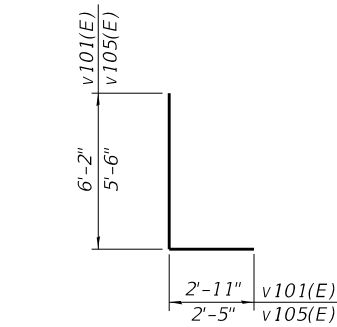
SECTION THRU EDGE BEAM



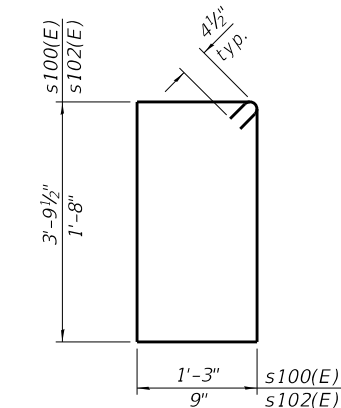
BARS h103(E) & h108(E)



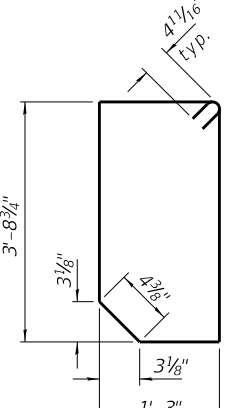
BAR v104(E)



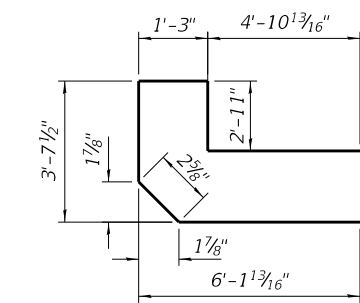
BARS v101(E) & v105(E)



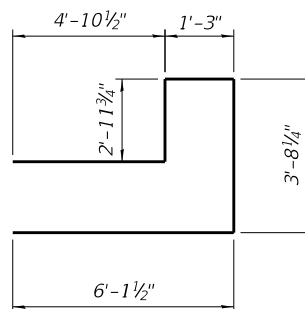
BARS s100(E) & s102(E)



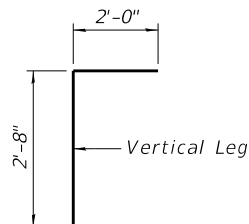
BAR s101(E)



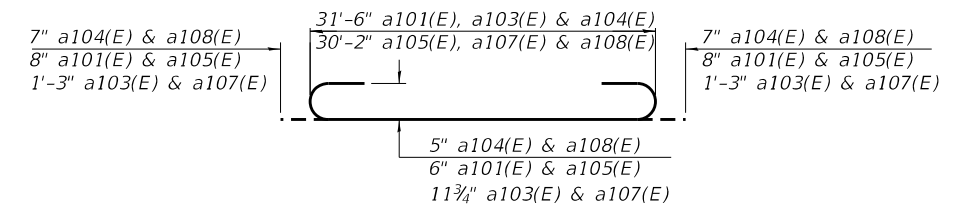
BAR d101(E)



BAR d102(E)



BAR d100(E)



BARS a101(E), a103(E), a104(E), a105(E), a107(E) & a108(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a101(E)	38	#6	32'-10"	U
a102(E)	38	#6	31'-6"	U
a103(E)	44	#9	34'-0"	U
a104(E)	38	#5	32'-8"	U
a105(E)	37	#6	31'-6"	U
a106(E)	39	#6	30'-2"	U
a107(E)	40	#9	32'-8"	U
a108(E)	32	#5	31'-4"	U
d100(E)	58	#4	4'-8"	L
d101(E)	66	#6	18'-9"	L
d102(E)	66	#6	18'-11"	L
h100(E)	124	#5	17'-2"	U
h101(E)	124	#5	17'-2"	U
h102(E)	104	#5	17'-2"	U
h103(E)	92	#7	8'-0"	U
h104(E)	6	#7	30'-2"	U
h105(E)	18	#6	30'-2"	U
h106(E)	3	#7	30'-2"	U
h107(E)	5	#6	30'-2"	U
h108(E)	84	#7	19'-0"	U
s100(E)	31	#4	10'-10"	L
s101(E)	31	#4	10'-7"	L
s102(E)	31	#4	5'-7"	L
v100(E)	96	#6	8'-4"	U
v101(E)	96	#6	9'-1"	U
v102(E)	144	#5	7'-2"	U
v103(E)	16	#4	14'-8"	U
v104(E)	36	#5	4'-6"	U
v105(E)	36	#5	7'-11"	U
Reinforcement Bars, Epoxy Coated		Pound	40,420	
Concrete Box Culverts		Cu. Yd.	217.6	



USER NAME =	DESIGNED - YSS	REVISED -
PLOT SCALE =	CHECKED - LNB	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

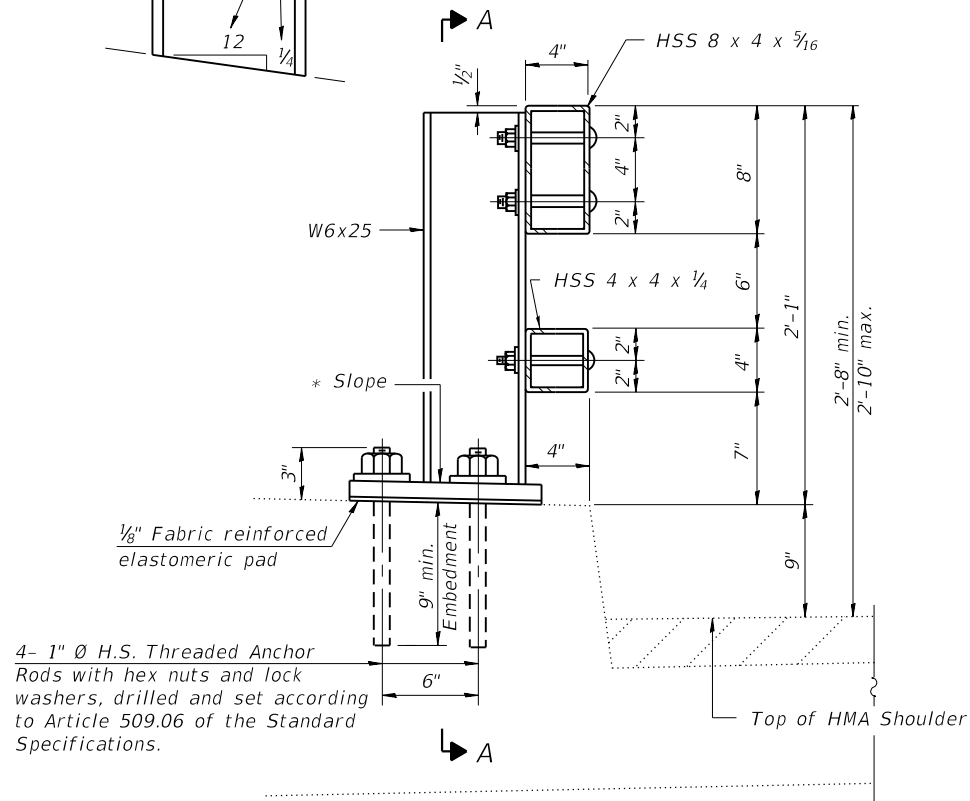
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 2
STRUCTURE NO. 097-2017

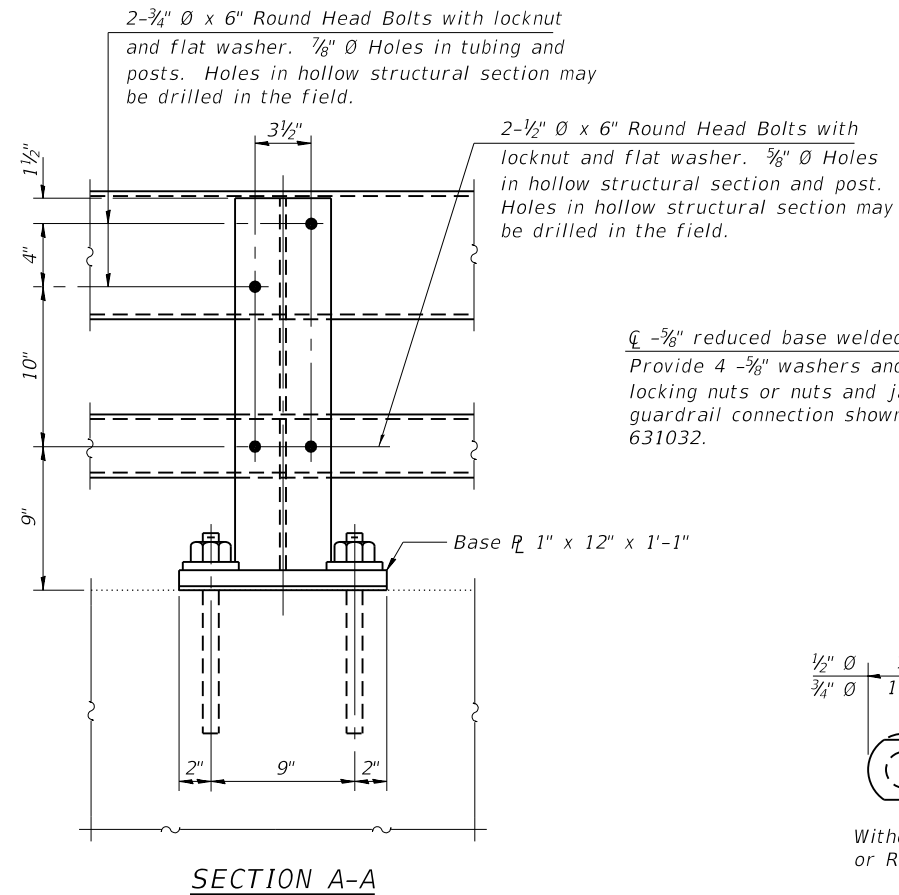
SHEET NO. 7 OF 13 SHEETS

F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 46
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

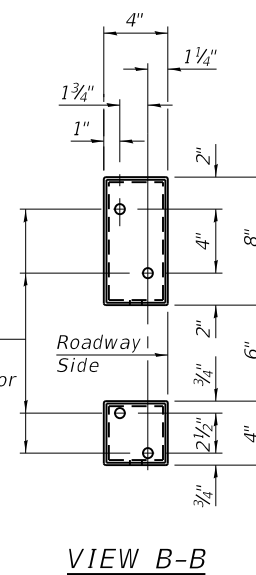
* Cut bottom end of post to curb slope.



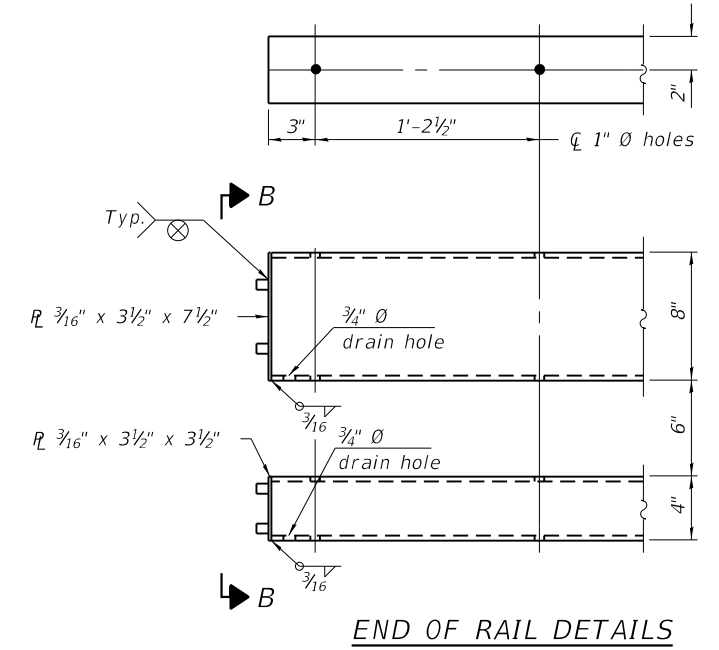
SECTION AT RAIL POST



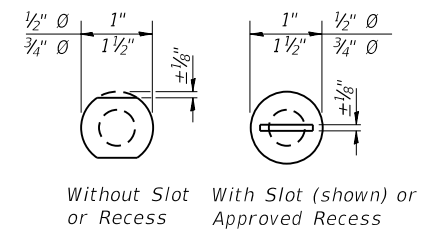
SECTION A-A



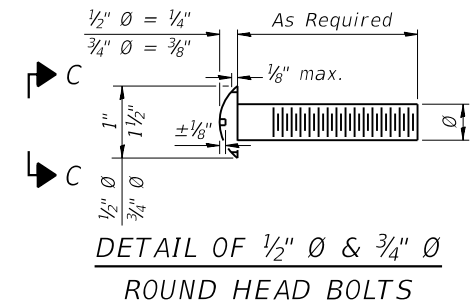
VIEW B-B



END OF RAIL DETAILS

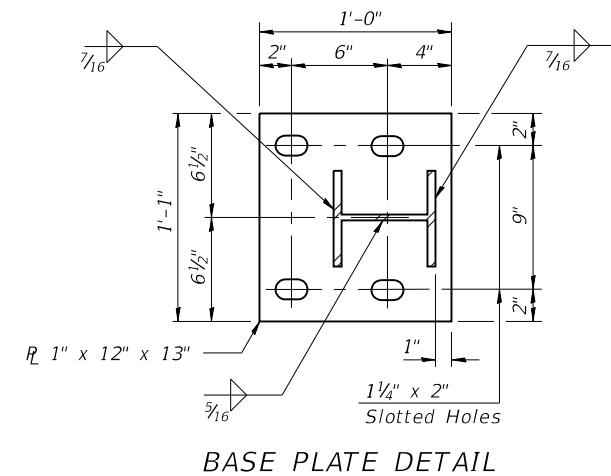


VIEW C-C

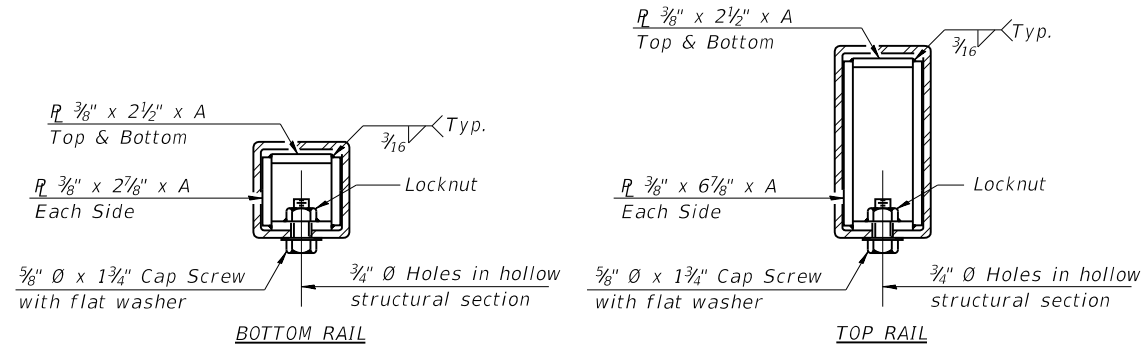


DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS

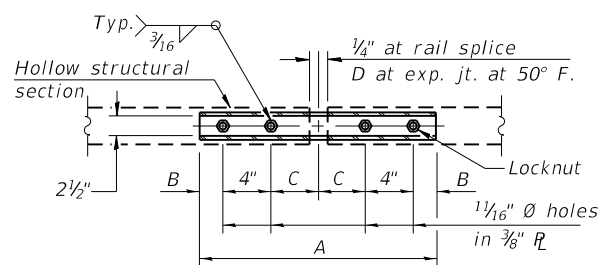
4- 1" \varnothing H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.



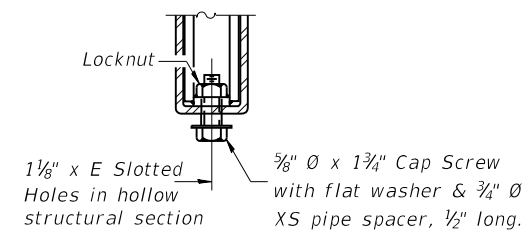
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

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

SPLICE DIMENSIONS

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	64

R-31

2-17-2017

(6'-3" Maximum Post Spacing)



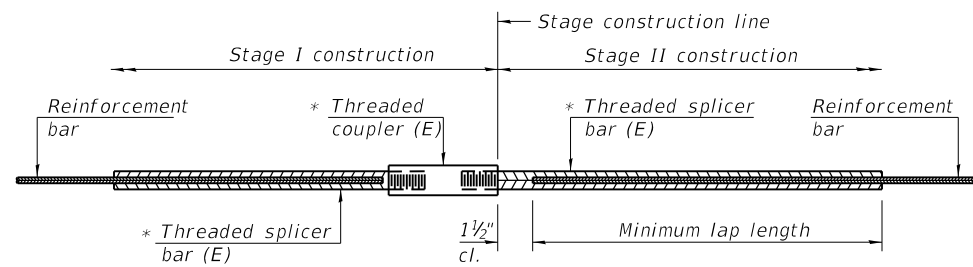
USER NAME =	DESIGNED - LNB	REVISED -
PLOT SCALE =	CHECKED - CSG	REVISED -
PLOT DATE = 11/01/2017	DRAWN - PRC	REVISED -
	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
STRUCTURE NO. 097-2017

SHEET NO. 8 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	47
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

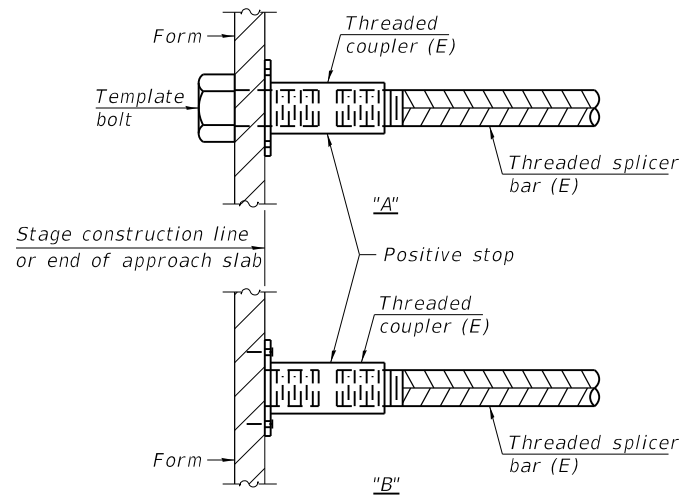


STANDARD BAR SPLICER ASSEMBLY

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	62	3'-2"
Top of Bottom Slab	#5	31	3'-7"
Bottom of Bottom Slab	#5	31	3'-2"
Culvert Walls	#5	52	3'-7"

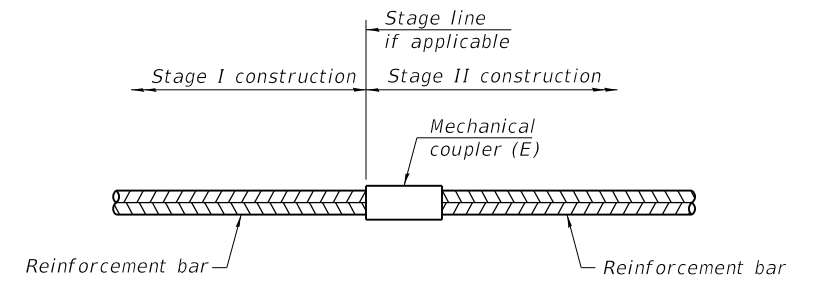


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

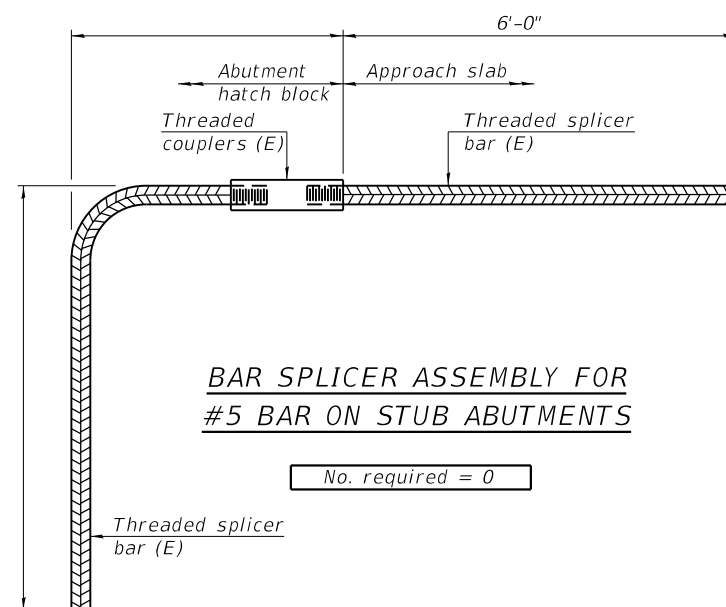
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

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.

BSD-1

2-17-2017



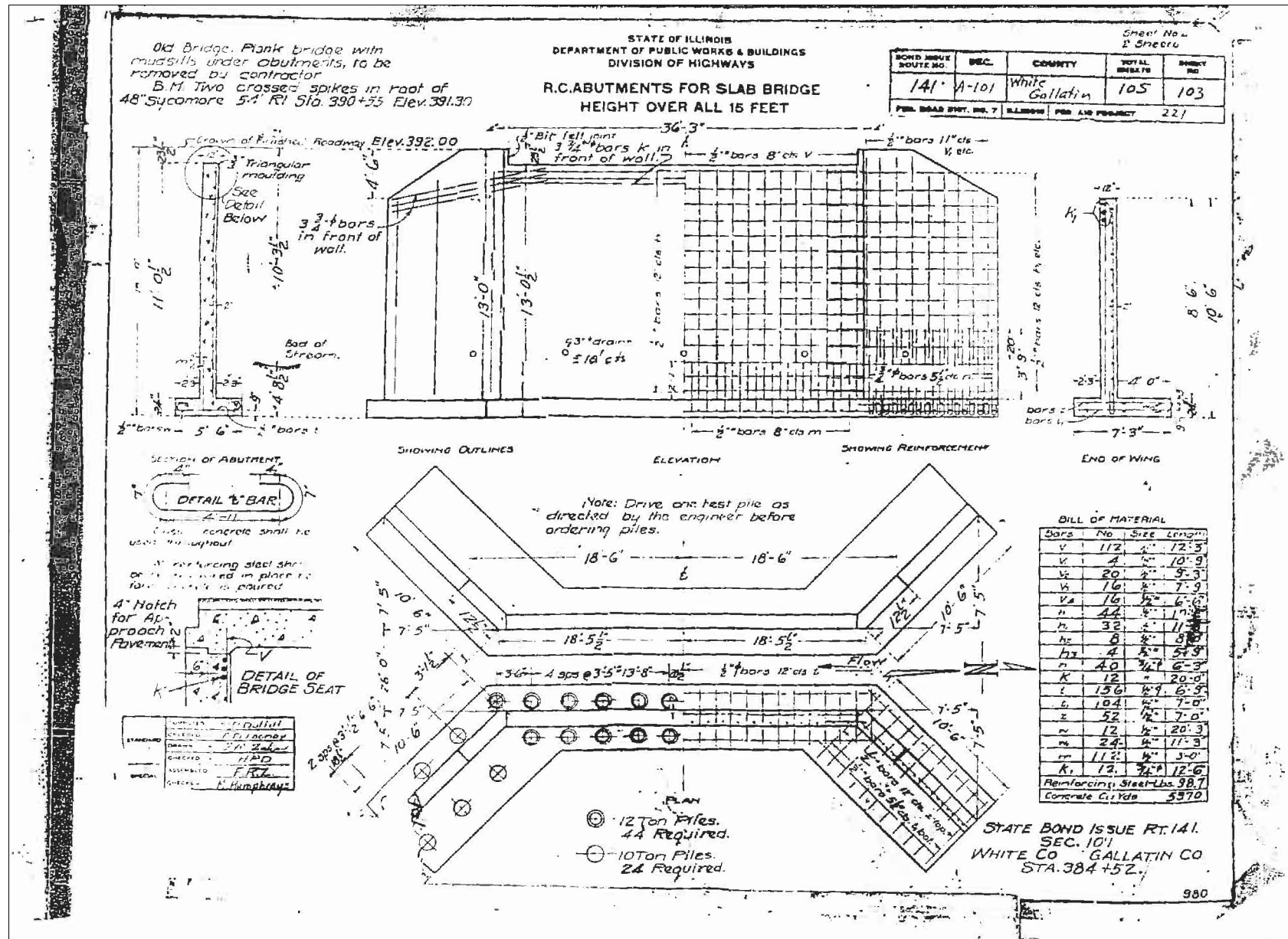
USER NAME =	DESIGNED - YSS	REVISED -
	CHECKED - LNB	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 11/01/2017	CHECKED - RLM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

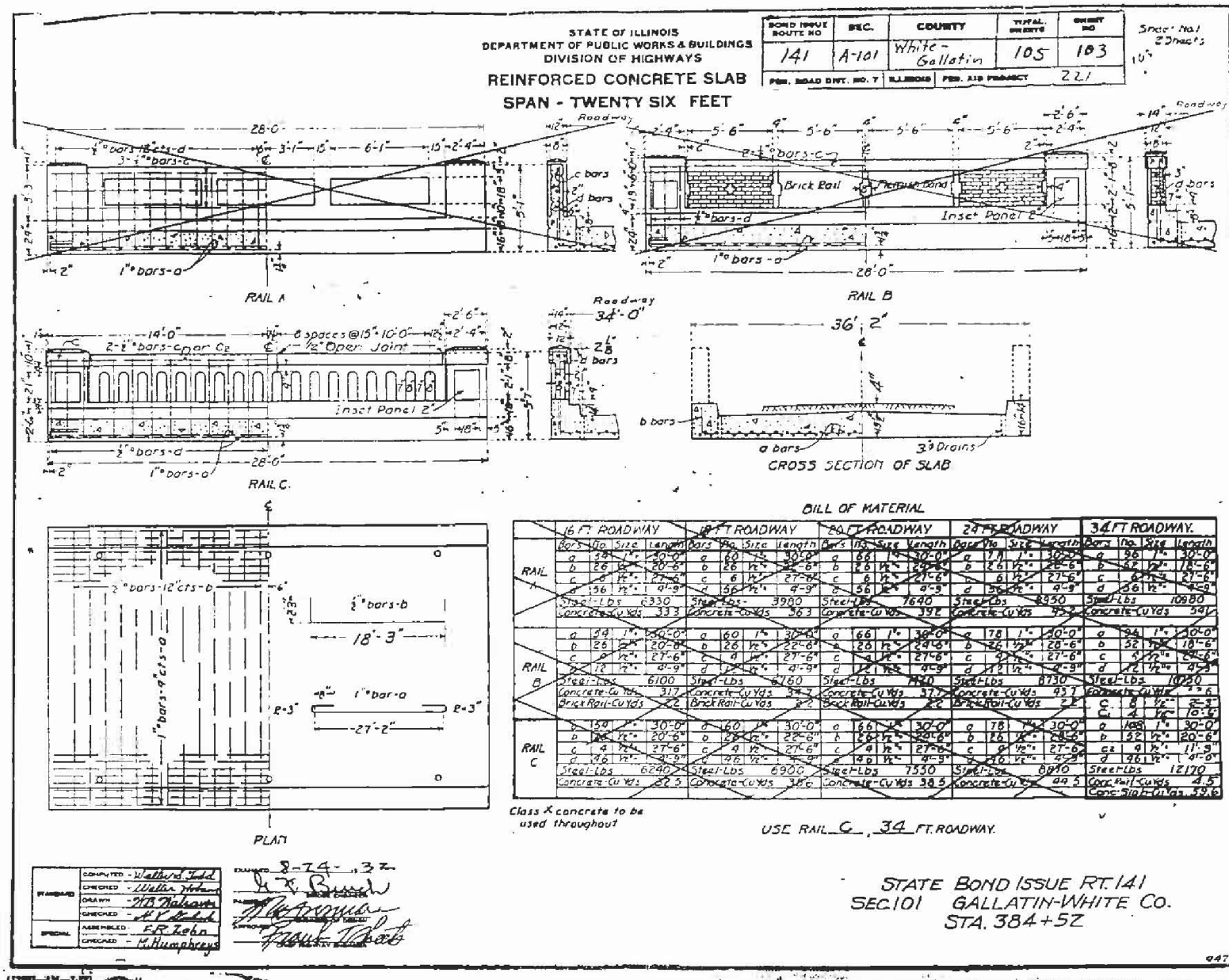
BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 097-2017

SHEET NO. 9 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-4	WHITE	65	48
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

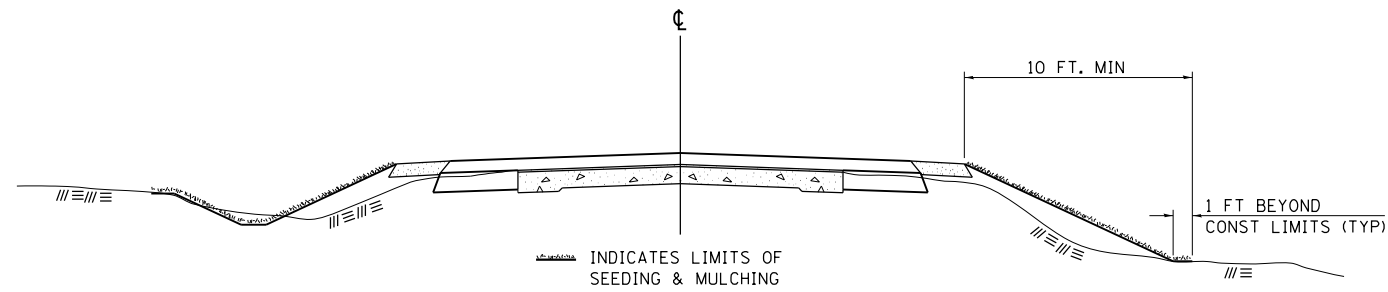


FOR INFORMATION ONLY



FOR INFORMATION ONLY

SEEDING & MULCHING



GENERAL NOTES

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

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

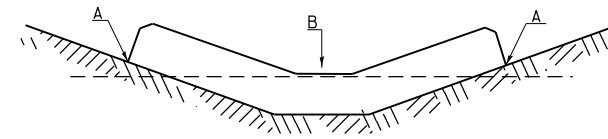
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

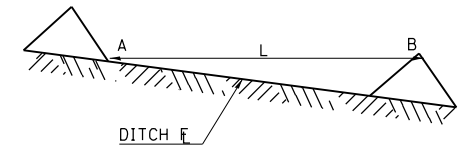
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



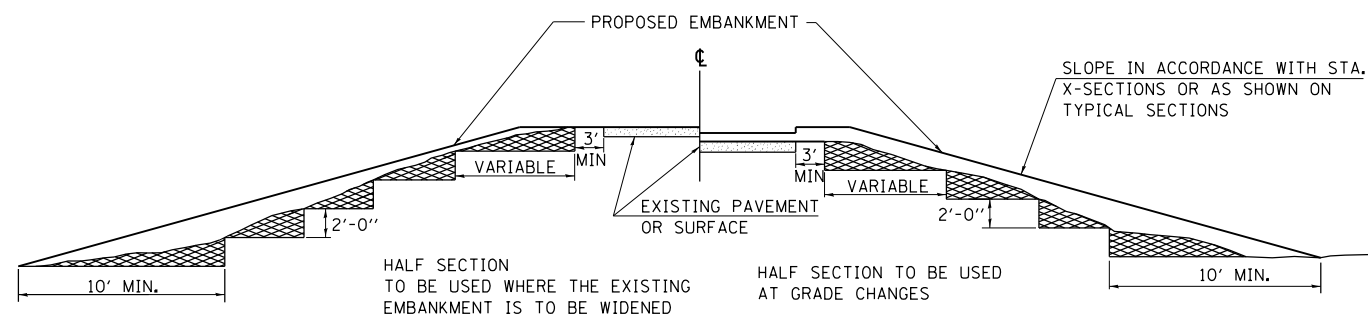
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
REVISED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

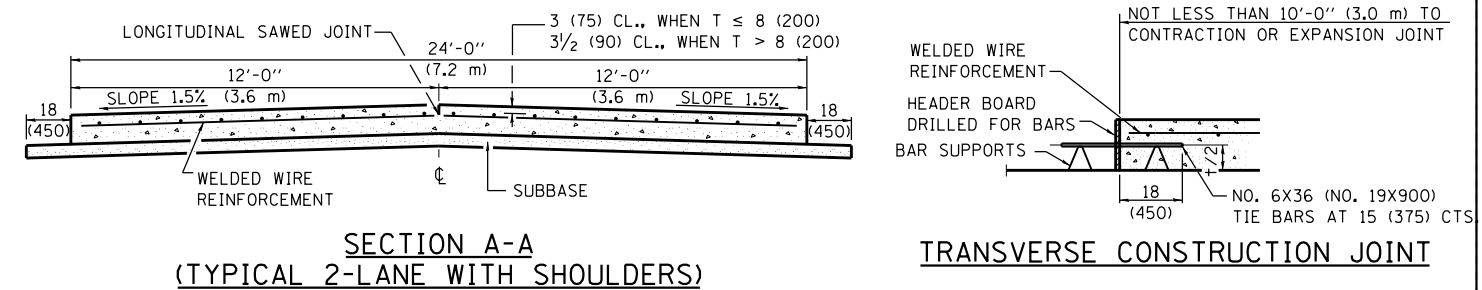


MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13

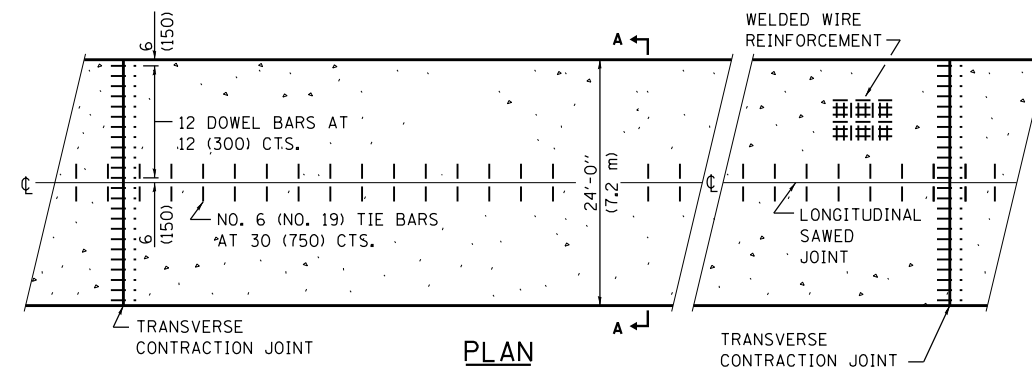
STD. 9-16

24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)

TRANSVERSE CONSTRUCTION JOINT



PLAN

GENERAL NOTES

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.

SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
DRAWN	11-9-17



USER NAME = \$USERS	DESIGNED - IDOT	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - IDOT	REVISED -
PLOT DATE = 11/20/2017	CHECKED -	REVISED -
	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS
F.A.P. RTE. 877 (IL RTE. 141)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3; 101B-4	WHITE	65	53
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

RURAL SIDE APPROACH DETAILS

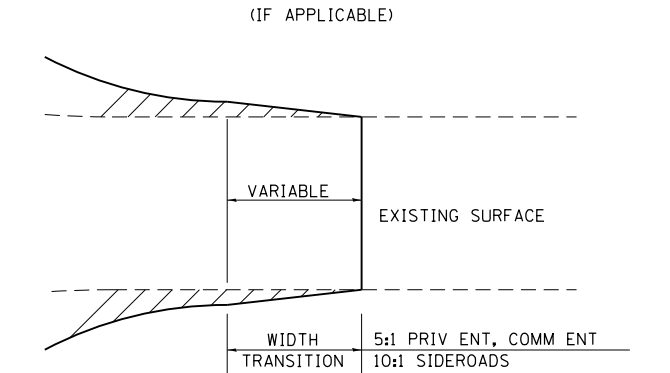
PRIVATE AND COMMERCIAL ENTRANCES

SIDEROADS

SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

WIDTH TRANSITION DETAIL TO EXISTING

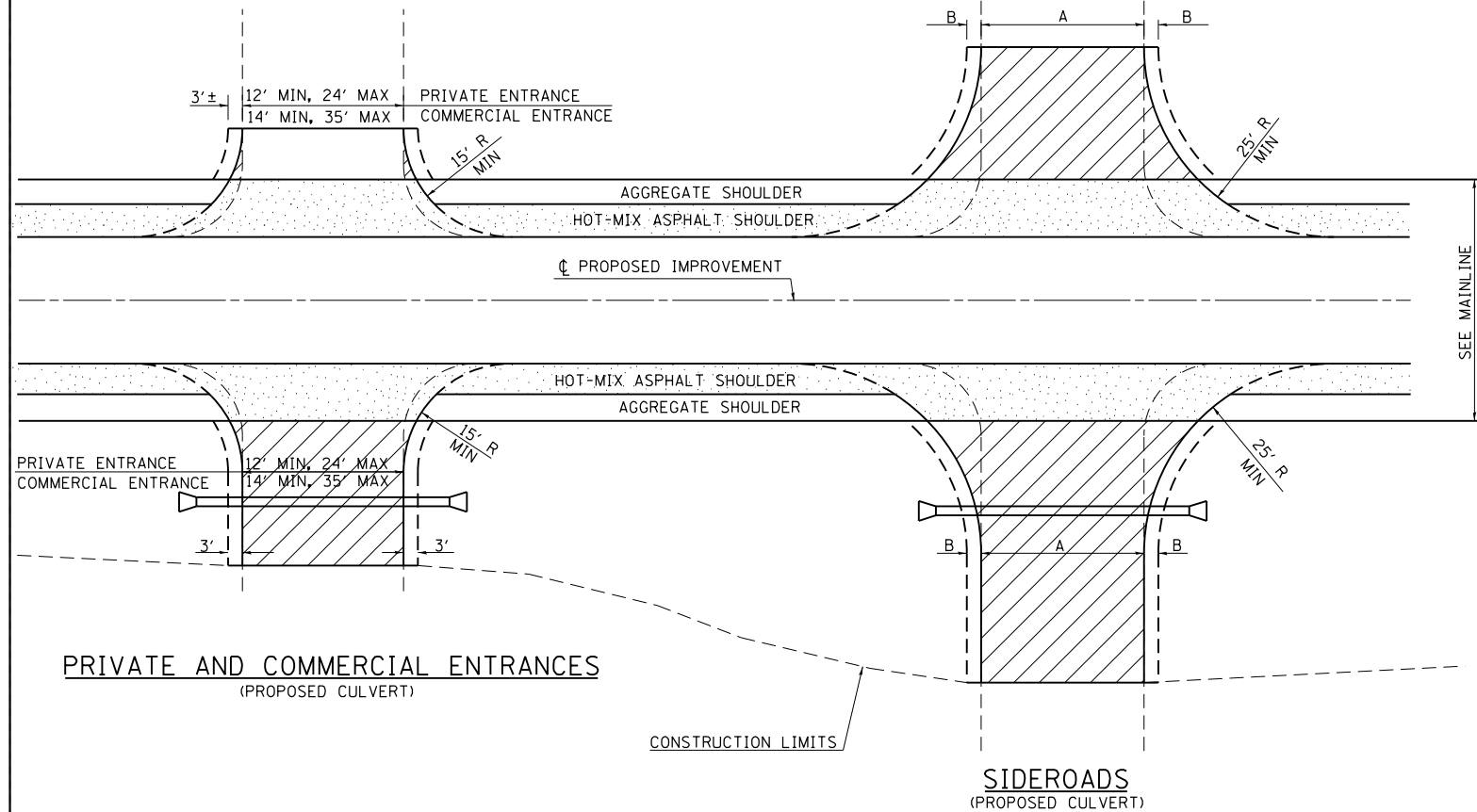
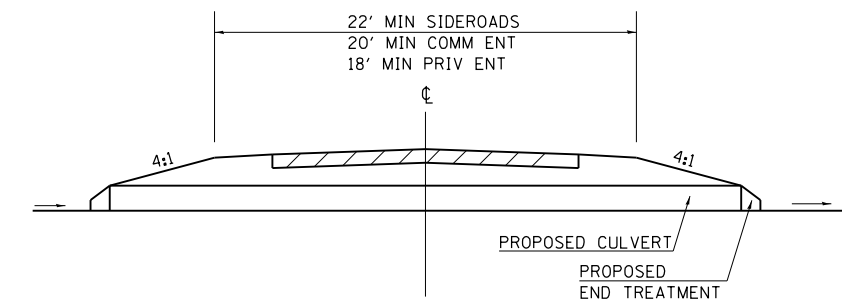


FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.

IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

DETAIL FOR CALCULATING CULVERT LENGTH



LEGEND

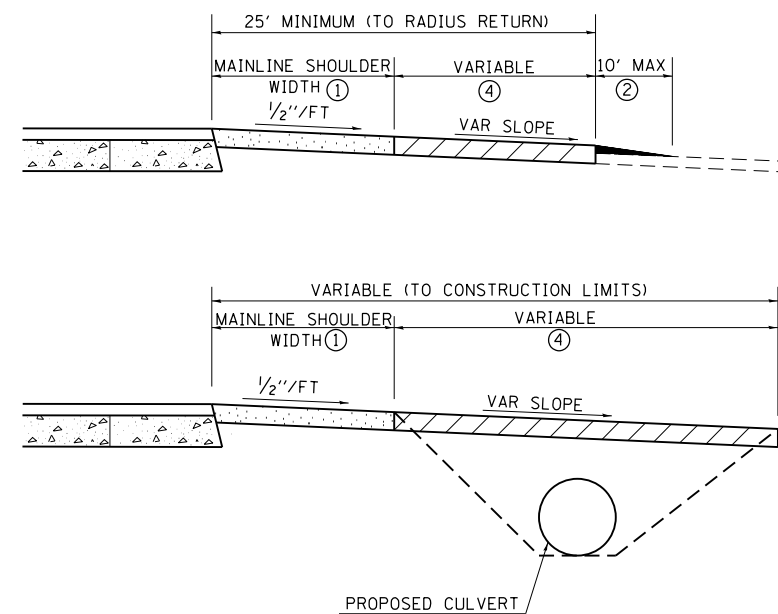
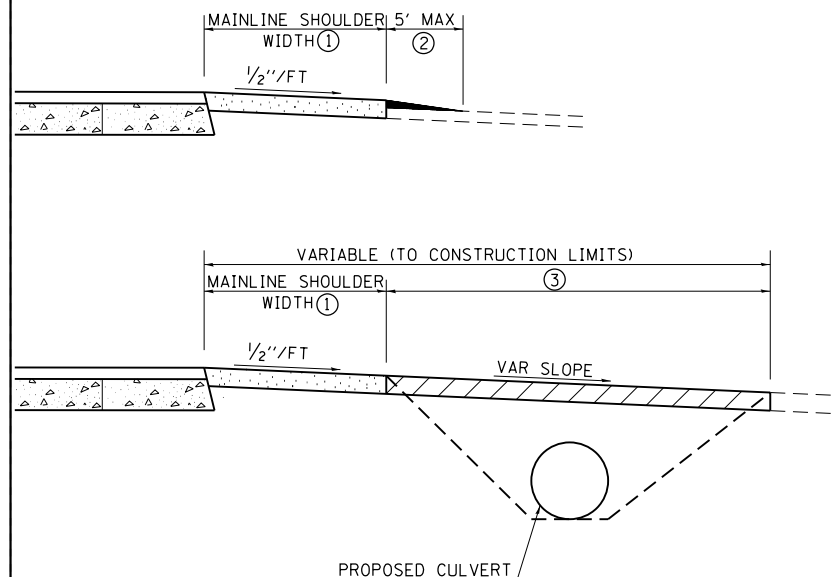
- CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
- 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

GENERAL NOTES

- ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
- IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
- SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
- ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
- THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

PRIVATE AND COMMERCIAL ENTRANCES

SIDEROADS



REVISIONS	
DRAWN	3-15-91
REVISED	10-02-91
REVISED	5-15-92
REVISED	1-20-00
REVISED	01-11-07
REVISED	5-7-08
REVISED	5-17-13

STD. 9-83



USER NAME = \$USERS	DESIGNED - IDOT	REVISED -
PLOT SCALE = \$\$SCALE\$	DRAWN - IDOT	REVISED -
PLOT DATE = 11/20/2017	CHECKED -	REVISED -
	DATE - 11/20/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

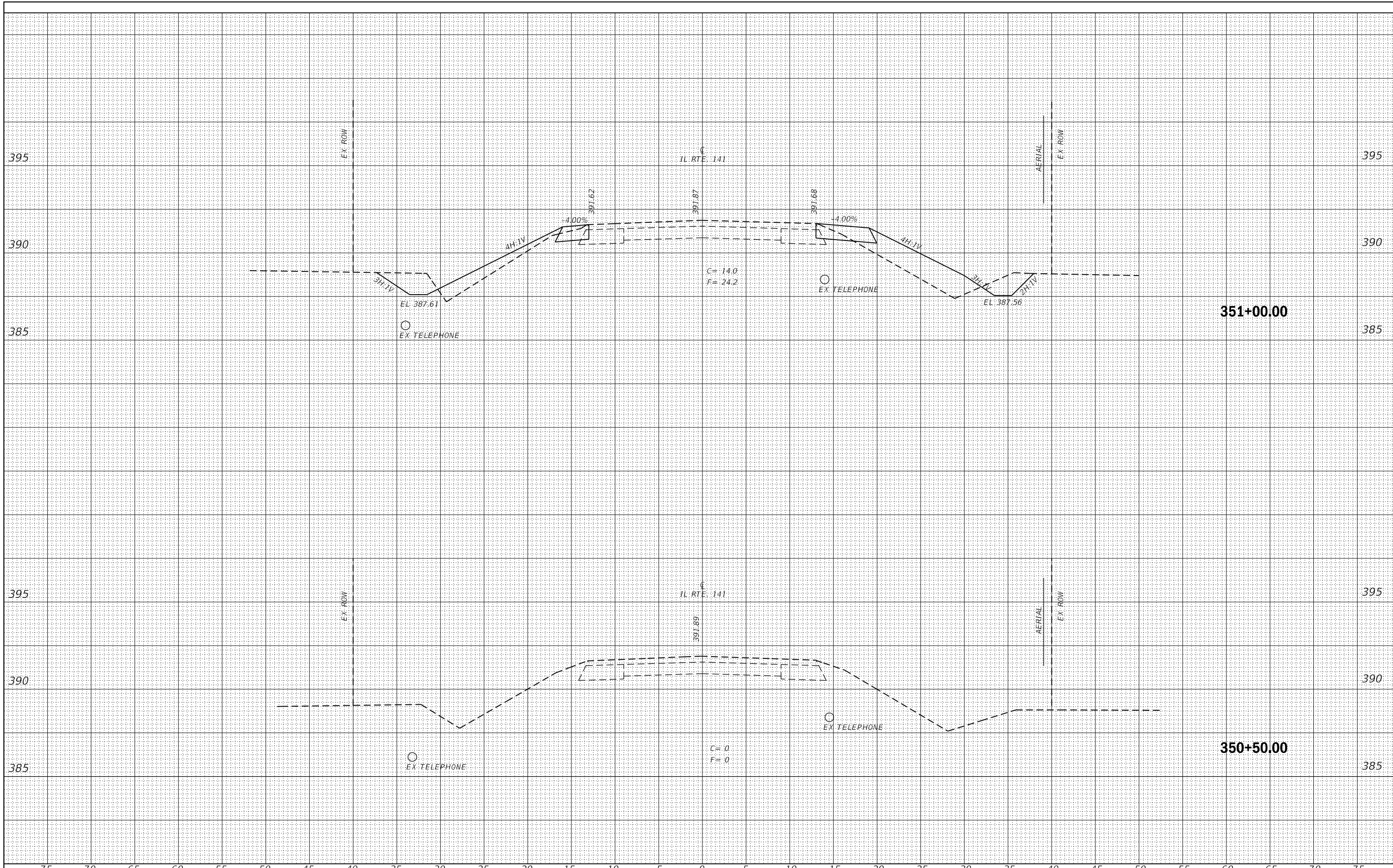
DISTRICT DETAILS
F.A.P. RTE. 877 (IL RTE. 141)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3; 101B-4	WHITE	65	54
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME =	JSUSERS	DESIGNED -	LKD/JMH	REVISED -	
		DRAWN -	AEC	REVISED -	
PLOT SCALE =	SSCALE5	CHECKED -	JMH	REVISED -	
PLOT DATE =	11/20/2017	DATE -	11/20/2017	REVISED -	

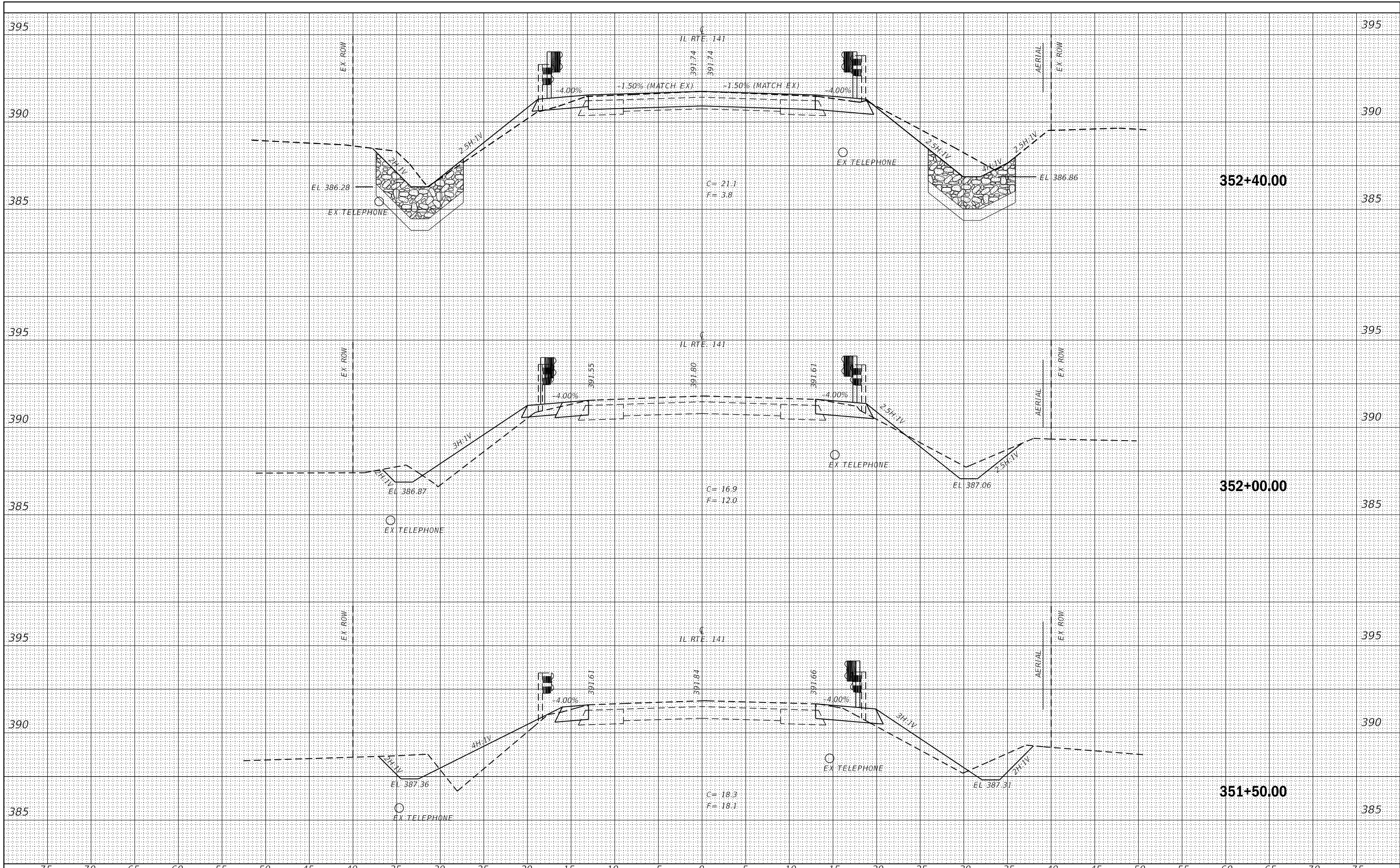
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS STRUCTURE NO. 097-2016	
SCALE:	SHEET 1 OF 5 SHEETS
STA. 350+50.00	TO STA. 351+00.00

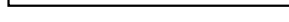
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
877	101B-3	WHITE	65	55
CONTRACT NO. 78264				
ILLINOIS FED. AID PROJECT				

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

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

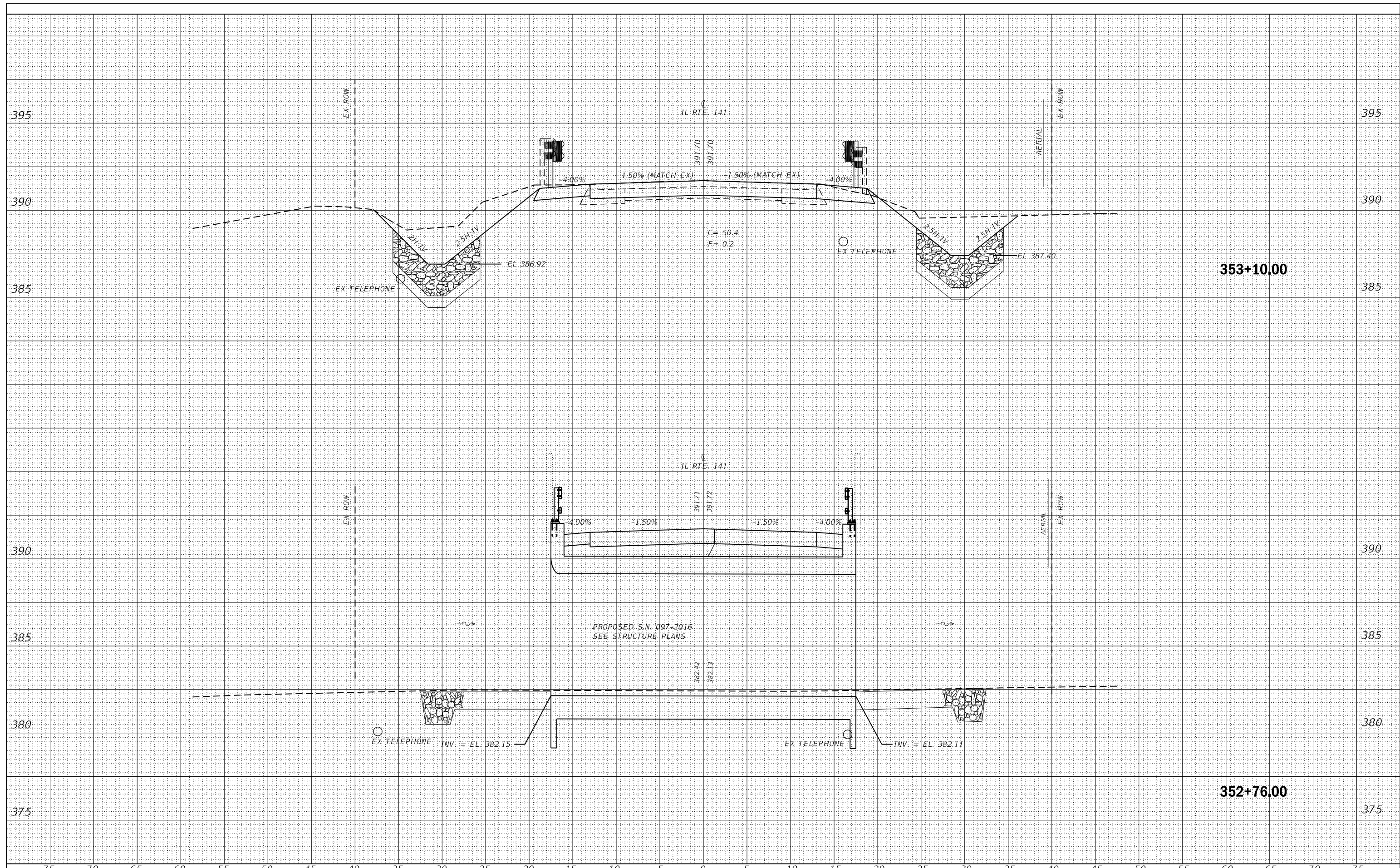


75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75					
USER NAME = \$USERS DESIGNED LKD/JMH DRAWN AEC CHECKED JMH DATE 11/20/2017												REVISIONS: REVISED - REVISED - REVISED - REVISED -												STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CROSS SECTIONS STRUCTURE NO. 097-2016				F.A.P. RTE. 877 SECTION 101B-3 COUNTY WHITE CONTRACT NO. 78264		TOTAL SHEETS 65 SHEET NO. 56	
PLOT SCALE = \$SCALE\$ PLOT DATE = 11/20/2017												SCALE: SHEET 2 OF 5 SHEETS STA. 351+50.00 TO STA. 352+40.00												ILLINOIS FED. AID PROJECT											



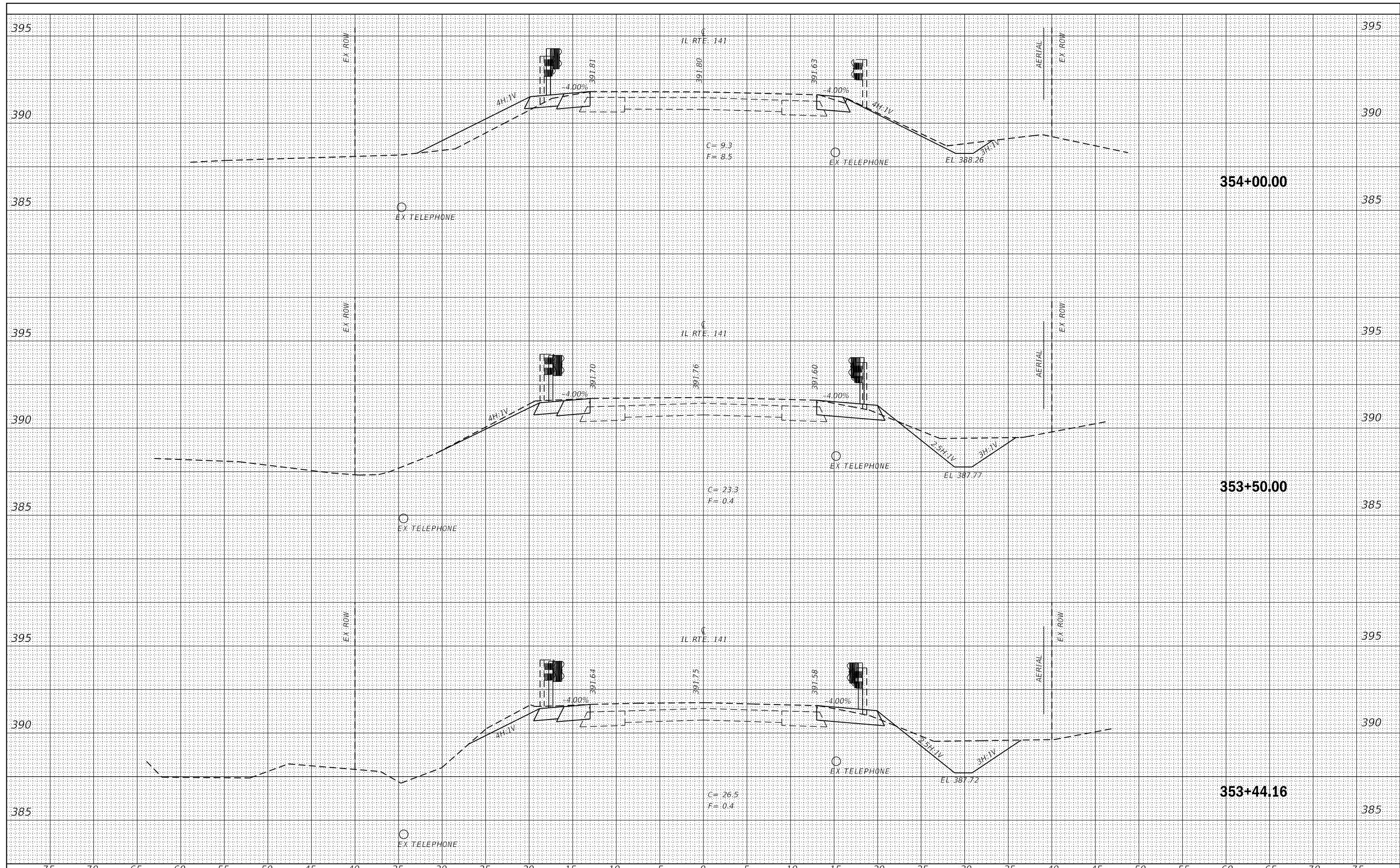
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



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

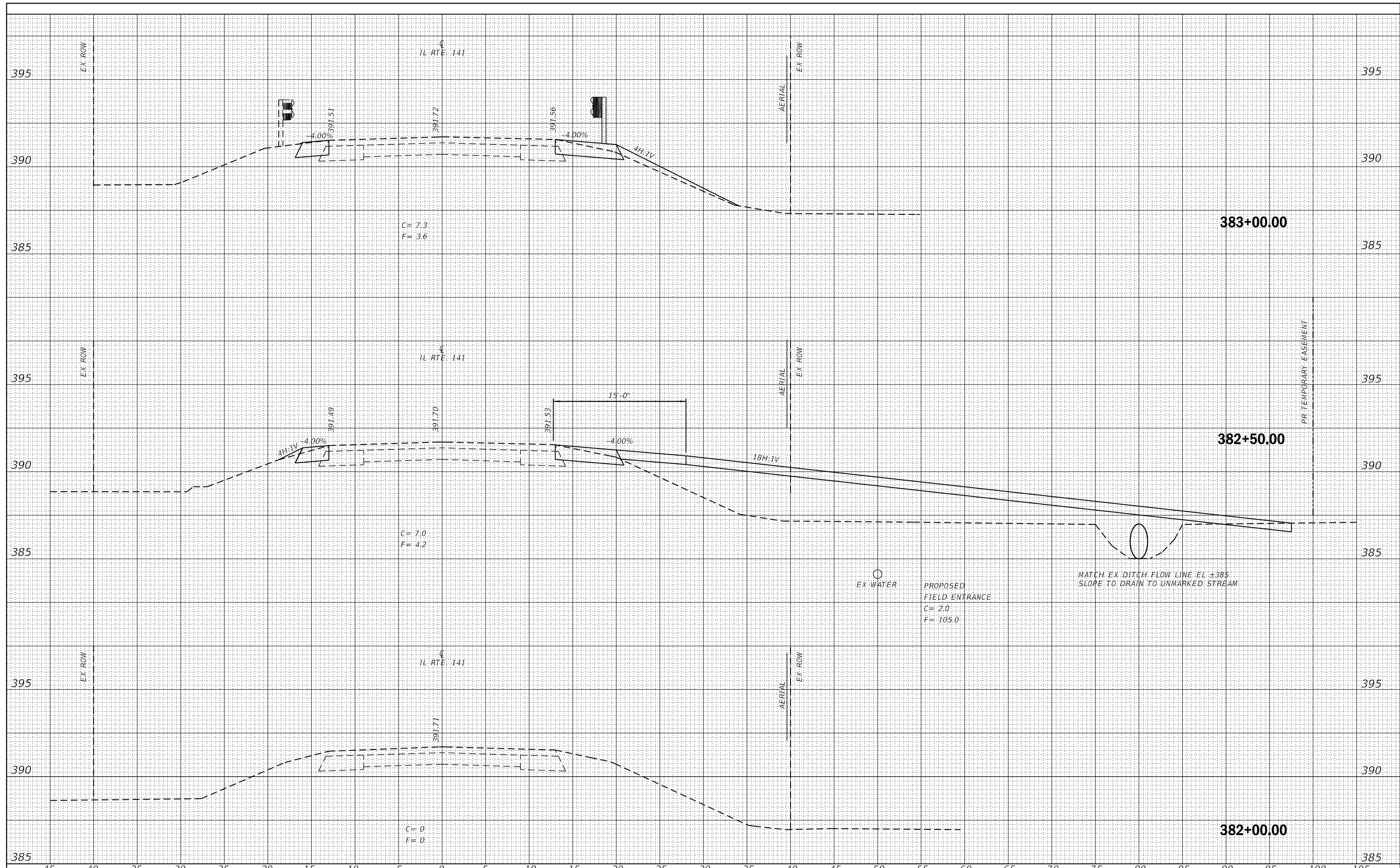
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75																																																					
<table border="1"> <tr><td>USER NAME =</td><td>\$USERS</td></tr> <tr><td>DESIGNED -</td><td>LKD/JMH</td></tr> <tr><td>DRAWN -</td><td>AEC</td></tr> <tr><td>PLLOT SCALE =</td><td>SSCALE5</td></tr> <tr><td>PLLOT DATE =</td><td>11/20/2017</td></tr> </table>												USER NAME =	\$USERS	DESIGNED -	LKD/JMH	DRAWN -	AEC	PLLOT SCALE =	SSCALE5	PLLOT DATE =	11/20/2017	<table border="1"> <tr><td>REVISD -</td><td></td></tr> <tr><td>REVISD -</td><td></td></tr> <tr><td>REVISD -</td><td></td></tr> <tr><td>REVISD -</td><td></td></tr> </table>						REVISD -		REVISD -		REVISD -		REVISD -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										CROSS SECTIONS STRUCTURE NO. 097-2016						<table border="1"> <tr><td>F.A.P. RTE.</td><td>SECTION</td><td>COUNTY</td><td>TOTAL SHEETS</td><td>SHEET NO.</td></tr> <tr><td>877</td><td>101B-3</td><td>WHITE</td><td>65</td><td>58</td></tr> </table>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	877	101B-3	WHITE	65	58	<table border="1"> <tr><td>SCALE:</td><td>SHEET 4</td><td>OF 5</td><td>SHEETS</td><td>STA. 353+44.16</td><td>TO STA. 354+00.00</td></tr> </table>						SCALE:	SHEET 4	OF 5	SHEETS	STA. 353+44.16	TO STA. 354+00.00	<table border="1"> <tr><td>ILLINOIS</td><td>FED. AID PROJECT</td></tr> </table>						ILLINOIS	FED. AID PROJECT
USER NAME =	\$USERS																																																																																		
DESIGNED -	LKD/JMH																																																																																		
DRAWN -	AEC																																																																																		
PLLOT SCALE =	SSCALE5																																																																																		
PLLOT DATE =	11/20/2017																																																																																		
REVISD -																																																																																			
REVISD -																																																																																			
REVISD -																																																																																			
REVISD -																																																																																			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																																																																															
877	101B-3	WHITE	65	58																																																																															
SCALE:	SHEET 4	OF 5	SHEETS	STA. 353+44.16	TO STA. 354+00.00																																																																														
ILLINOIS	FED. AID PROJECT																																																																																		

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

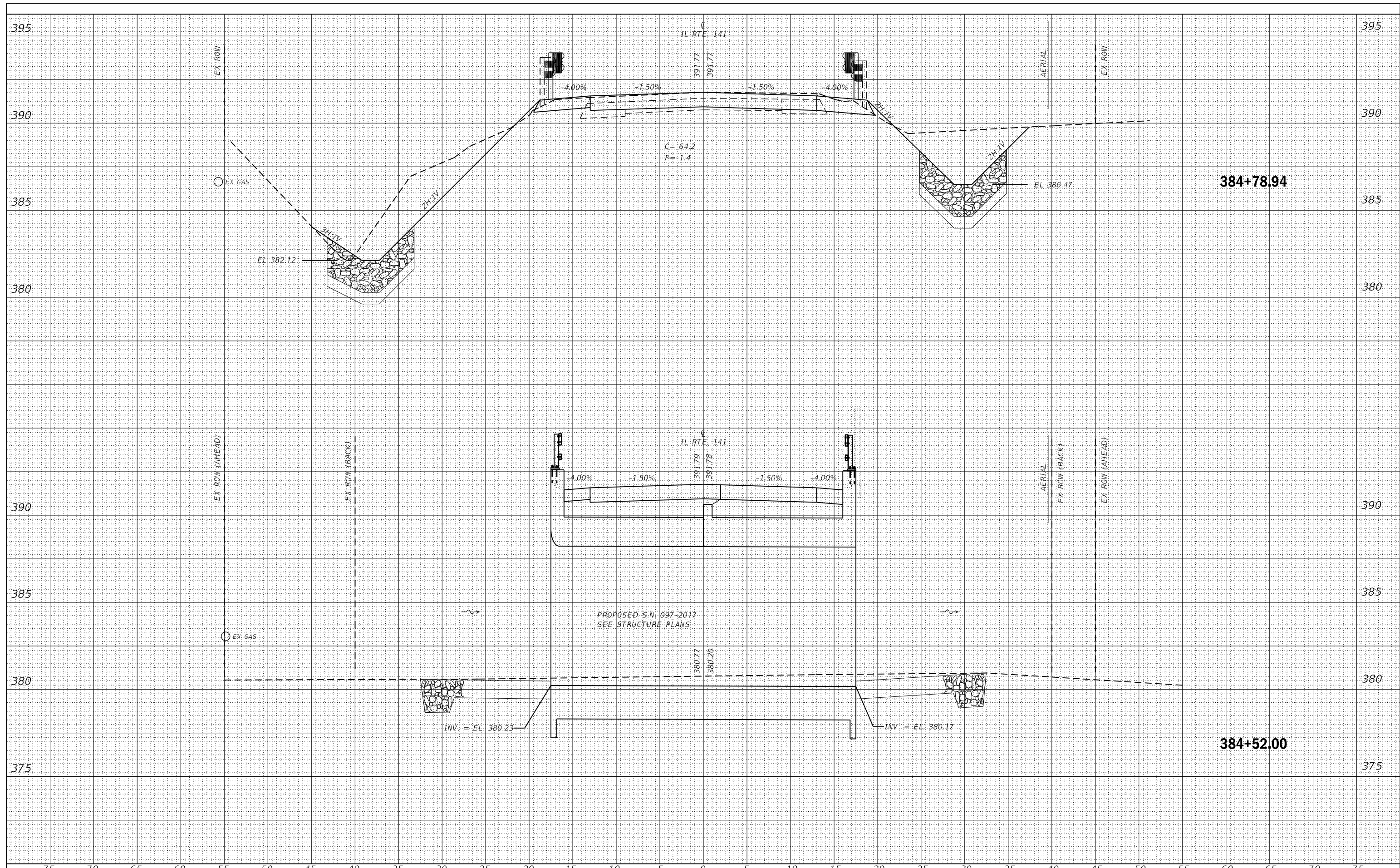
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



	USER NAME = \$USERS	DESIGNED - LKD/JMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS STRUCTURE NO. 097-2017			F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 60
	PLOT SCALE = \$SCALE\$	CHECKED - JMH	REVISED -		SCALE:	SHEET 1	OF 6	SHEETS	STA. 382+00.00	TO STA. 383+00.00	CONTRACT NO. 78264	
	PLOT DATE = 11/20/2017	DATE - 11/20/2017	REVISED -					ILLINOIS FED. AID PROJECT				

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

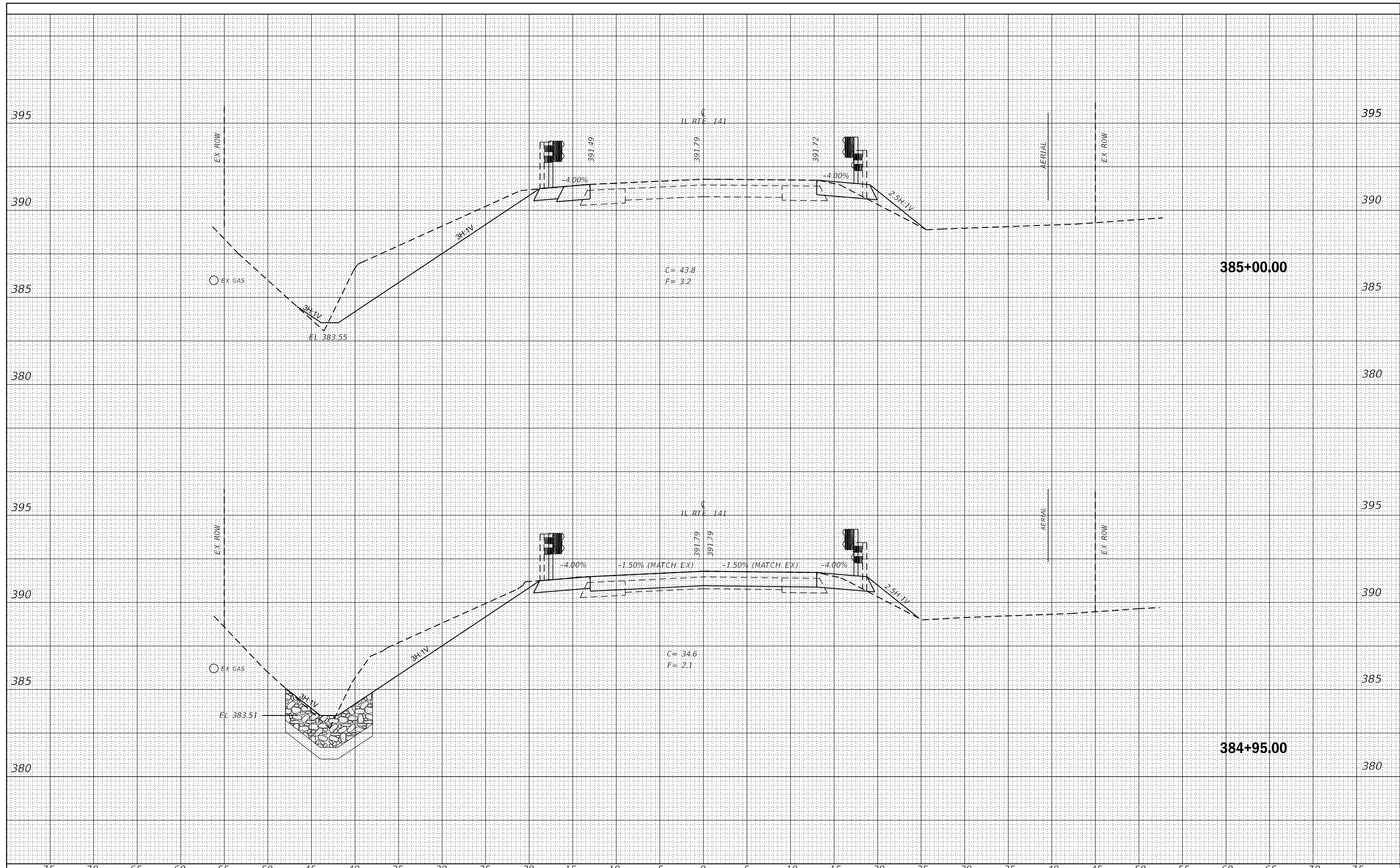
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75													
USER NAME = \$USERS DESIGNED - LKD/JMH DRAWN - AEC PLOT SCALE = \$SCALE\$ PLOT DATE = 11/20/2017												REVISIONS REVISED - REVISED - REVISED - REVISED -						STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										CROSS SECTIONS STRUCTURE NO. 097-2017						F.A.P. RTE. 877		SECTION 101B-4		COUNTY WHITE		TOTAL SHEETS 65		SHEET NO. 62	
												SCALE: SHEET 3 OF 6 SHEETS STA. 384+52.00 TO STA. 384+78.94										ILLINOIS		FED. AID PROJECT																			

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

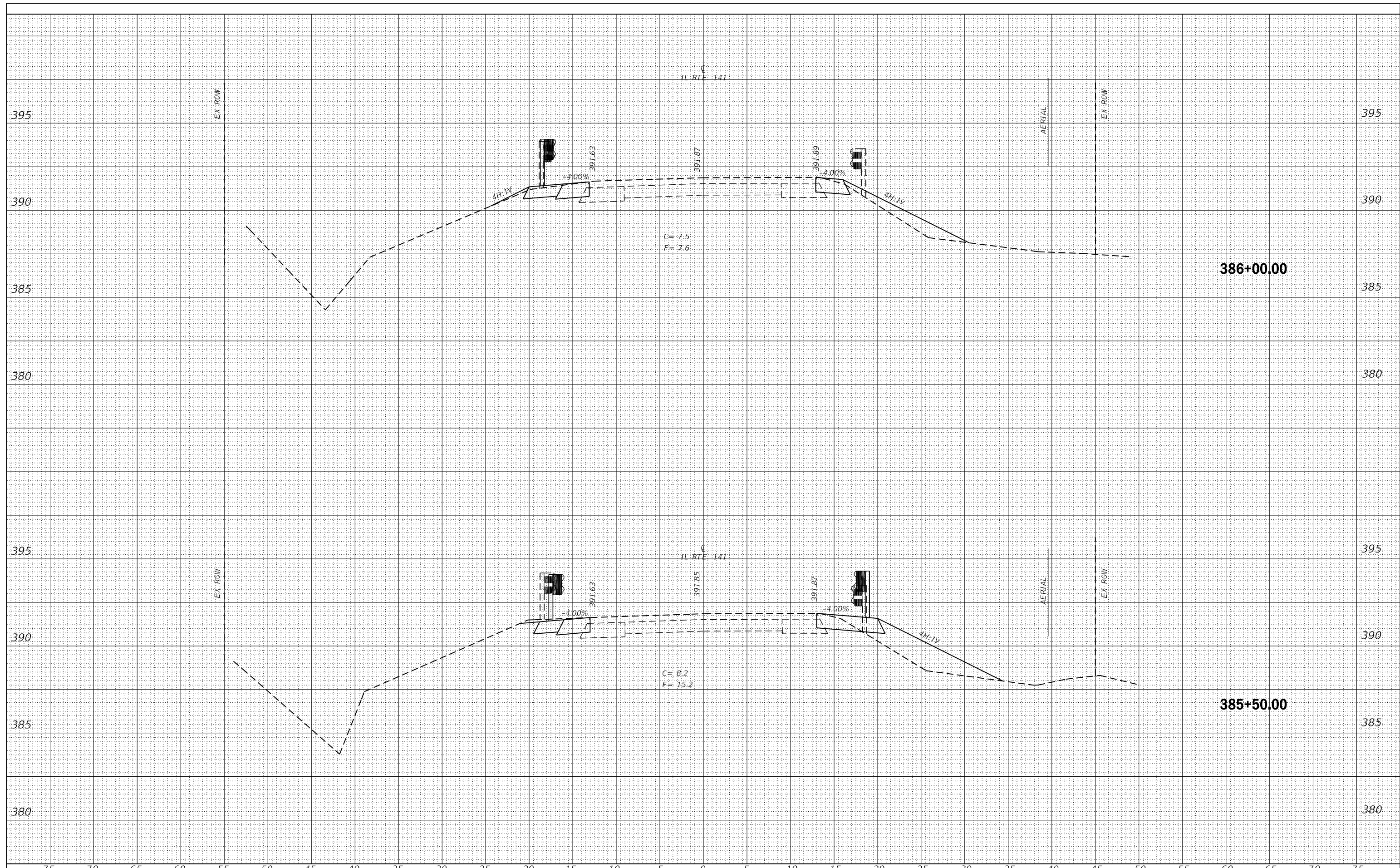


75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
USER NAME = \$USERS		DESIGNED - LKD/JMH	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">CROSS SECTIONS STRUCTURE NO. 097-2017</p> <p>SCALE: SHEET 4 OF 6 SHEETS STA. 384+95.00 TO STA. 385+00.00</p>														F.A.P. RTE. 877	SECTION 101B-4	COUNTY WHITE	TOTAL SHEETS 65	SHEET NO. 63								
PLOT SCALE = \$SCALE\$		DRAWN - AEC	REVISED -															CONTRACT NO. 78264												
PLOT DATE = 11/20/2017		CHECKED - JMH	REVISED -															ILLINOIS FED. AID PROJECT												
		DATE - 11/20/2017	REVISED -																											



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

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



75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
USER NAME = \$USERS DESIGNED - LKD/JMH DRAWN - AEC CHECKED - JMH DATE - 11/20/2017												STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION						CROSS SECTIONS STRUCTURE NO. 097-2017						F.A.P. RTE. 877 SECTION 101B-4 COUNTY WHITE CONTRACT NO. 78264		TOTAL SHEETS 65 SHEET NO. 64				
PLOT SCALE = \$SCALE\$ PLOT DATE = 11/20/2017												SCALE:						SHEET 5 OF 6 SHEETS STA. 385+50.00 TO STA. 386+00.00						ILLINOIS FED. AID PROJECT						



