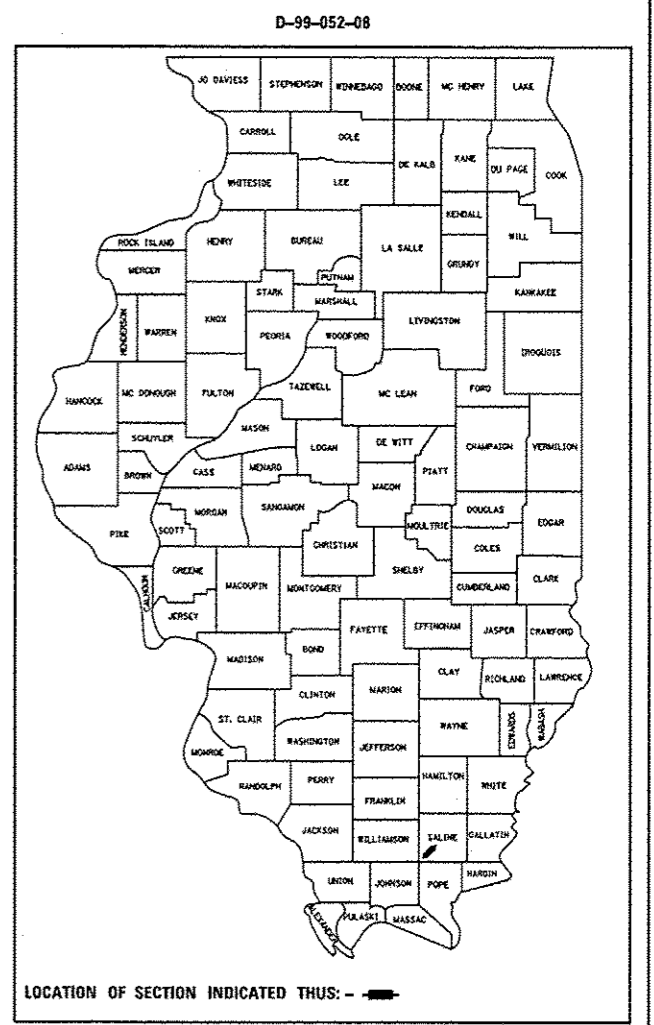


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 78083		

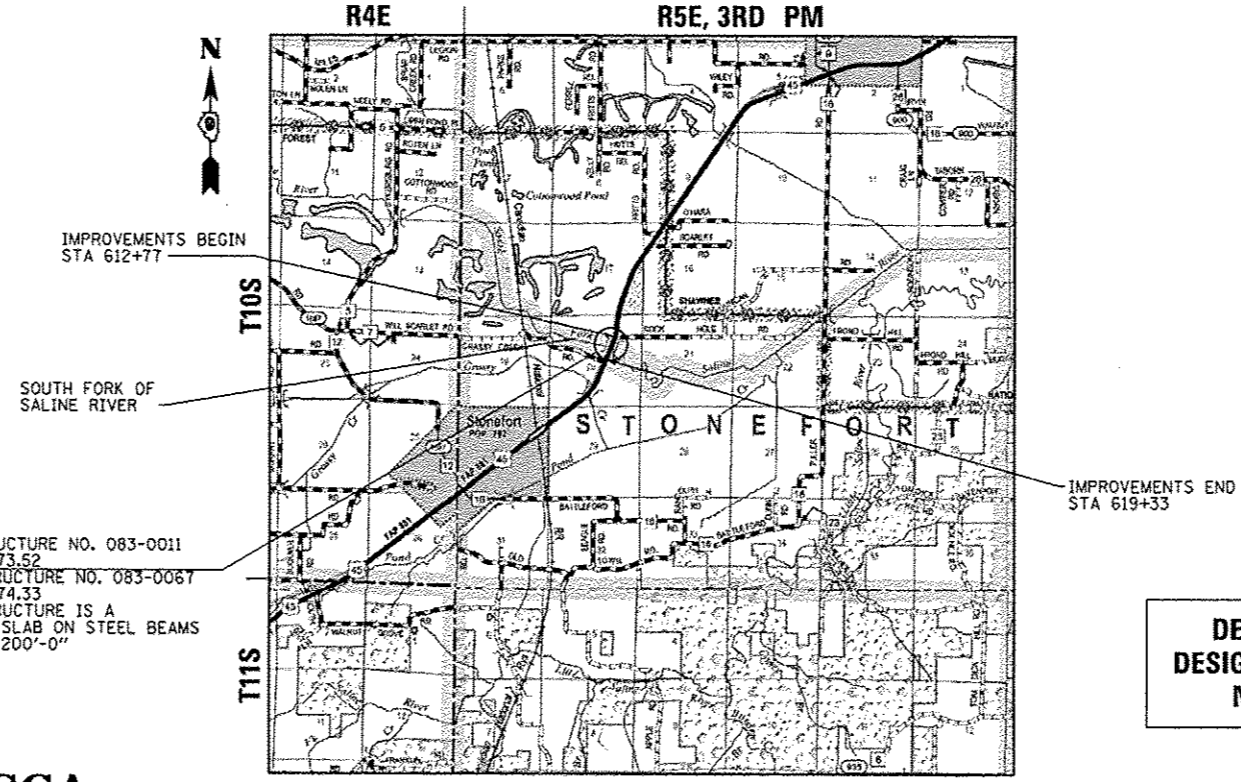
INDEX OF SHEETS 01-15-2016 LETTING ITEM 043

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 881 (US 45)
SECTION 32B-1
PROJECT ACF-0881 (020)
SALINE COUNTY
C - 99 - 070 - 08
BRIDGE REPLACEMENT
OVER SOUTH FORK OF SALINE RIVER

- SHEET NO. DESCRIPTION**
- ROADWAY PLANS**
- COVER SHEET
 - GENERAL NOTES AND STANDARDS
 - 3.-9. SUMMARY OF QUANTITIES
 - 10.-13. TYPICAL SECTIONS
 14. SCHEDULE OF QUANTITIES
 - 15.-17. FAP 881 (US 45) PLAN AND PROFILE
 - 18.-19. STAGE CONSTRUCTION PLAN AND DETAILS
 20. EROSION CONTROL PLAN
 21. SEEDING AND MULCHING DETAILS
 22. STEP CONSTRUCTION ON EXISTING FILL DETAILS
 23. BUTT JOINT DETAIL
- STRUCTURE PLANS**
24. GENERAL PLAN AND ELEVATION
 25. GENERAL DATA
 26. STAGE CONSTRUCTION DETAILS
 27. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 - 28.-30. TOP OF SLAB ELEVATIONS
 31. TOP OF NORTH APPROACH SLAB ELEVATIONS
 32. TOP OF SOUTH APPROACH SLAB ELEVATIONS
 33. SUPERSTRUCTURE
 34. SUPERSTRUCTURE DETAILS
 35. DIAPHRAGM DETAILS
 - 36.-37. BRIDGE APPROACH SLAB DETAILS
 38. STRUCTURAL STEEL
 39. STRUCTURAL STEEL DETAILS
 40. NORTH ABUTMENT
 41. SOUTH ABUTMENT
 42. ABUTMENTS
 43. PIER 1
 44. PIER 2
 45. PIER DETAILS
 46. HP PILE DETAILS
 47. BAR SPLICER ASSEMBLY DETAILS
 - 48.-49. SOIL BORING LOGS
- EXISTING STRUCTURE PLANS**
SN 083-0011
- 50.-57. EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
- CROSS SECTIONS**
- 58.-66. FAP 881 (US 45) CROSS SECTIONS



FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON URBAN)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 1,920 (2008)
PV: 83.1%
TRUCKS: 16.9%
TOWNSHIP: STONEFORT & CARRIER MILLS



EXISTING STRUCTURE NO. 083-0011
STATION 615+73.52
PROPOSED STRUCTURE NO. 083-0067
STATION 615+74.33
PROPOSED STRUCTURE IS A
3 SPAN CONC SLAB ON STEEL BEAMS
BK/BK ABUTS 200'-0"

DESIGN
DESIGNATION
N.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 16 20 15
Jeffrey Keiser
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 4 20 15
John D. Baranzelli PE
ENGINEER OF DESIGN AND ENVIRONMENT

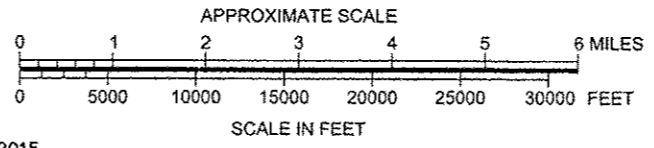
Dec 4 20 15
Americo M. PE
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

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



DISTRICT 9 NO. (618) 549-2171
PROJECT ENGINEER: DAVID PICHE
CONTRACT NO. 78083

RICHARD D. PAYE
37421 LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
DATE: 10/16/2015
ILLINOIS PROFESSIONAL LICENSE NO. 37421
(EXPIRATION DATE: 11-30-15)



GROSS LENGTH = 656.00 FT. = 0.124 MI.
NET LENGTH = 656.00 FT. = 0.124 MI.

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OF THE STATE OF ILLINOIS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT 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
701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

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

ALL HOT-MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON EXISTING PAVEMENT	0.05 LB/SQ FT
INTERMEDIATE LIFTS (FOG COAT)	0.025 LB/SQ FT
ON AGGREGATE SURFACE	0.25 LB/SQ FT
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ YD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDING WILL BE DETERMINED BY THE ENGINEER.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER EXCEPT AS DESCRIBED IN NOTE 12. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN 30' OF THE CENTERLINE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 612+32 TO 619+78. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.

- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, AND ONE ADDITIONAL APPLICATION.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- 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.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN THE MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACKED MOUNTED OR WHEELED.
- RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B OR AGGREGATE SURFACE COURSE, TYPE B.
- DECK SLAB REPAIR IS INCLUDED TO REPAIR THE EXISTING BRIDGE DECK FOR STAGE I TRAFFIC. THE QUANTITIES FOR PARTIAL DEPTH AND FULL DEPTH ARE ESTIMATED. THE ENGINEER WILL DETERMINE THE LOCATIONS AND THE ACTUAL QUANTITIES USED.

COMMITMENTS

- IDOT WILL NOTIFY U.S.G.S. OF THE BEGINNING AND END OF BRIDGE CONSTRUCTION. U.S.G.S. WILL REMOVE ALL EXISTING GAGING INFRASTRUCTURE FROM THE US 45 BRIDGE AND WILL TEMPORARILY RELOCATE TO THE UPSTREAM BIKE PATH BRIDGE. U.S.G.S. WILL REINSTALL THE GAGING INFRASTRUCTURE ON THE NEW US 45 BRIDGE UPON COMPLETION OF THE BRIDGE CONSTRUCTION.
- REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER NOVEMBER 1, 2015.
- DUE TO THE PRESENCE OF THE INDIANA BAT, CLEARING OF TREES SHALL BE PROHIBITED FROM APRIL 1 THROUGH SEPTEMBER 30.

HMA MIXTURES REQUIREMENTS

LOCATIONS:	HMA SURFACING	LEVELING BINDER	BASE COURSE	HMA SHOULDERS
MIXTURE USE(S):	HMA SURFACE CSE, MIX C, N90	LEVELING BINDER (MM) N90	HMA BINDER CSE, N90	HMA BINDER CSE, N70
AC/PG GRADE:	PG64-22	PG64-22	PG64-22	PG64-22
RAP % (MAX.): ***	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS:				
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5	IL-9.5	IL-19.0	IL-19.0
FRICTION AGGREGATE:	C SURFACE	NONE	NONE	NONE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

- PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT LAND ACQUISITION ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT PROGRAM DEVELOPMENT ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT OPERATIONS ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT PROJECT IMPLEMENTATION ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT CONSTRUCTION ENGINEER
- EXAMINED BY: *[Signature]*
DISTRICT MATERIALS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	2
CONTRACT NO. 78083				

USER NAME = jpo	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1833.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667" = 1'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 7:47:53 AM	DATE - 10/15	REVISED -



ESCA CONSULTANTS, INC. 1001 S. WASHINGTON ST. SUITE 200 CHICAGO, IL 60605
 TEL: 312.467.1000 FAX: 312.467.1001 WWW.ESCA-CONSULTANTS.COM

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 ROADWAY	80% FEDERAL 20% STATE BRIDGE 0011 S. N. 083-0067
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
20200100	EARTH EXCAVATION	CU YD	270	270	
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
25000350	SEEDING, CLASS 7	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	69	69	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	69	69	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	69	69	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.5	1.5	
25100115	MULCH, METHOD 2	ACRE	1.5	1.5	
25100630	EROSION CONTROL BLANKET	SO YD	2095	2095	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150	
28000305	TEMPORARY DITCH CHECKS	FOOT	50	50	
28000400	PERIMETER EROSION BARRIER	FOOT	730	730	
28100107	STONE RIPRAP, CLASS A4	SO YD	691		691

14

⊗ SPECIALTY ITEM

ESCA CONSULTANTS, INC.
 1001 N. W. 10th St.
 Ft. Lauderdale, FL 33304
 TEL: 954-575-1100
 FAX: 954-575-1101
 WWW.ESCA-FL.COM



USER NAME	Wah	DESIGNED	- NHP	REVISED	-
ESCA PROJECT NO.	1035.06	DRAWN	- DWH	REVISED	-
PLOT SCALE	1/8" = 1'-0"	CHECKED	- ELH	REVISED	-
PLOT DATE	10/13/2015 1:48:39 PM	DATE	- 10/15	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	328-1	SALINE	66	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 ROADWAY	80% FEDERAL 20% STATE BRIDGE 0011 S. N. 083-0067
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
28200200	FILTER FABRIC	SO YD	691		691
35650500	BASE COURSE WIDENING 10"	SO YD	252	252	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	4	4	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1007	1007	
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	59	59	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	194	194	
40600990	TEMPORARY RAMP	SO YD	33	33	
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	137	137	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SO YD	46	46	
44000100	PAVEMENT REMOVAL	SO YD	184	184	
44000400	GUTTER REMOVAL	FOOT	38	38	
44004250	PAVED SHOULDER REMOVAL	SO YD	74	74	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1	1	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	325	325	

⊗ SPECIALTY ITEM

ESCA CONSULTANTS, INC.
 1400 S. WASHINGTON ST.
 SUITE 200
 CHICAGO, IL 60605
 TEL: 312.467.1000
 FAX: 312.467.1001
 WWW.ESCA-CONSULTANTS.COM



USER NAME * kpa
 ESCA PROJECT NO. 1035.06
 PLOT SCALE * 0.1667" / 1"
 PLOT DATE * 10/13/2015 1:40:53 PM

DESIGNED - NHP
 DRAWN - DWH
 CHECKED - ELH
 DATE - 10/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	328-1	SALINE	66	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 ROADWAY	80% FEDERAL 20% STATE BRIDGE 0011 S. N. 083-0067
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	29	29	
50200100	STRUCTURE EXCAVATION	CU YD	254		254
50300100	FLOOR DRAINS	EACH	24		24
50300225	CONCRETE STRUCTURES	CU YD	140.3		140.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	353.3		353.3
50300260	BRIDGE DECK GROOVING	SO YD	866		866
50300300	PROTECTIVE COAT	SO YD	1120		1120
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	3996		3996
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	100250		100250
50800515	BAR SPLICERS	EACH	902		902
51201710	FURNISHING STEEL PILES HP12X84	FOOT	498		498
51202100	FURNISHING STEEL PILES HP14X117	FOOT	402		402

⊗ SPECIALTY ITEM

ESCA CONSULTANTS, INC.
 1100 S. WASHINGTON ST.
 SUITE 200
 CHICAGO, IL 60605
 TEL: 312.467.1000
 FAX: 312.467.1001
 WWW.ESCA-CONSULTANTS.COM



USER NAME • ksh	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1035-06	DRAWN - DWH	REVISED -
PLOT SCALE • 0.1567" = 1'-0"	CHECKED - ELH	REVISED -
PLOT DATE • 10/13/2015 1:41:06 PM	DATE - 10/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 ROADWAY	80% FEDERAL 20% STATE BRIDGE 0011 S. N. 083-0067
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
51202305	DRIVING PILES	FOOT	900		900
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	48		48
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	62		62
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60500305	FILLING INLETS	EACH	1	1	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	214	214	
⊗ 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	312.5	312.5	
⊗ 63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	4	4	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	948	948	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	

⊗ SPECIALTY ITEM

PRINTED: 10/13/2015 1:00:00 PM
 PLOT: 10/13/2015 1:00:00 PM
 FILE: 101321.DWG



USER NAME: ksh
 ESCA PROJECT NO. 1035.06
 PLOT SCALE: 0.1667" = 1'-0"
 PLOT DATE: 10/13/2015 1:00:00 PM

DESIGNED - NHP	REVISED -
DRAWN - DWH	REVISED -
CHECKED - ELH	REVISED -
DATE - 10/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	328-1	SALINE	66	6
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78083		

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0011 S. N. 083-0067
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2	
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	184	184	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1762	1762	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	943	943	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	525	525	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	525	525	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

⊗ SPECIALTY ITEM

PROJECT NO. 18-14-2015
 DATE 11/14/2015
 TIME 11:57:23 AM



USER NAME * kah	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1835.06	DRAWN - DWH	REVISED -
PLOT SCALE * 0.1667" / 1"	CHECKED - ELH	REVISED -
PLOT DATE * 10/14/2015	DATE - 10/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	328-1	SALINE	66	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 ROADWAY	80% FEDERAL 20% STATE BRIDGE 0011 S. N. 083-0067
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		
⊗ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1762	1762	
⊗ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7	
⊗ 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	7	7	
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SO FT	584	584	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7	7	
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	119	119	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	120		120
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	96	96	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	2	2	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	10	10	

⊗ SPECIALTY ITEM



USER NAME - kwh
 ESCA PROJECT NO. 1835.06
 PLOT SCALE - 0.1667" = 1'-0"
 PLOT DATE - 10/16/2015 11:58:00 AM

DESIGNED - NHP
 DRAWN - DWH
 CHECKED - ELH
 DATE - 10/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	8
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004	80% FEDERAL 20% STATE BRIDGE 0011
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	S. N. 083-0067
Z0026407	TEMPORARY SHEET PILING	SO FT	250		250
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	140		140
Z0065000	SETTING PILES IN ROCK	EACH	12		12
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	80		80
φ Z0076600	TRAINEES	HR	1000	1000	
φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HR	1000	1000	

4

φ

φ

φ 0042

⊗ SPECIALTY ITEM

PLT: 10/14/2015 11:58:22 AM
 PLOT SCALE: 0.1867 1/16" = 1'



USER NAME : ksh
 ESCA PROJECT NO. 1035.06
 PLOT SCALE : 0.1867 1/16" = 1'
 PLOT DATE : 10/14/2015 11:58:22 AM

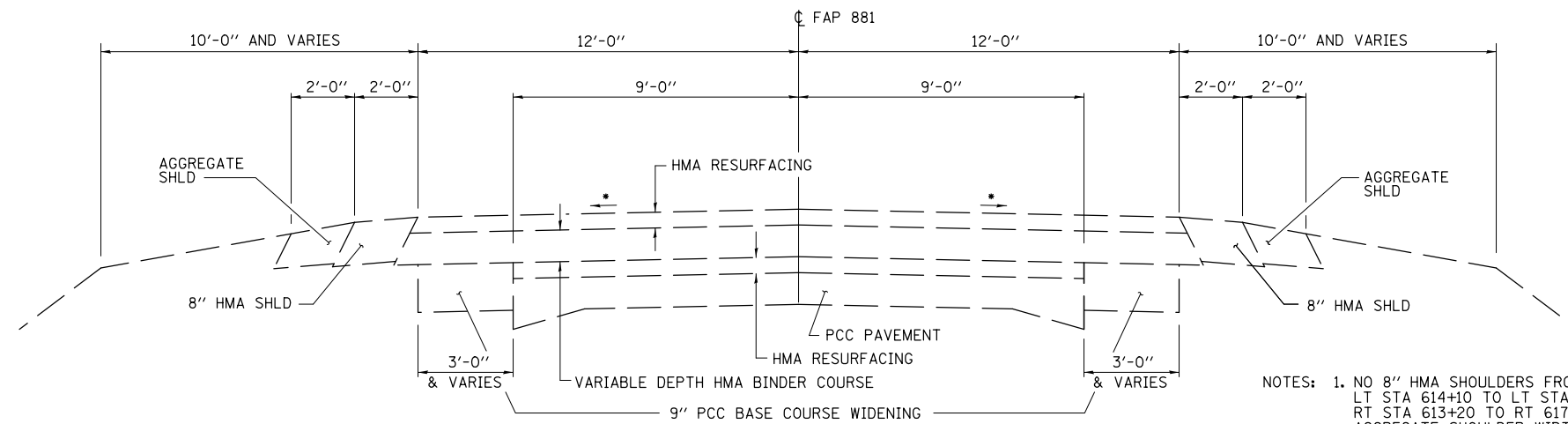
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 DRAWN - DWH
 CHECKED - ELH
 DATE - 10/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
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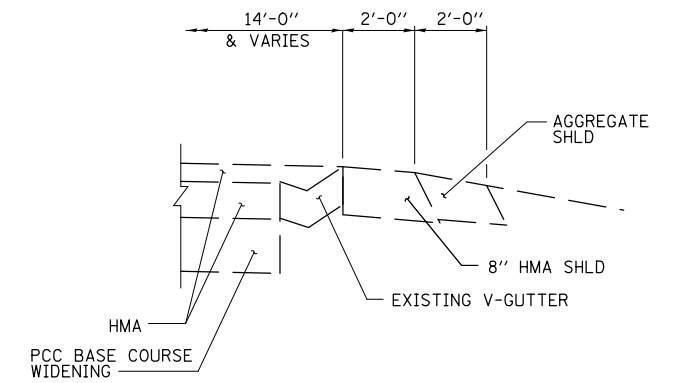
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881	32B-1	SALINE	66	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	



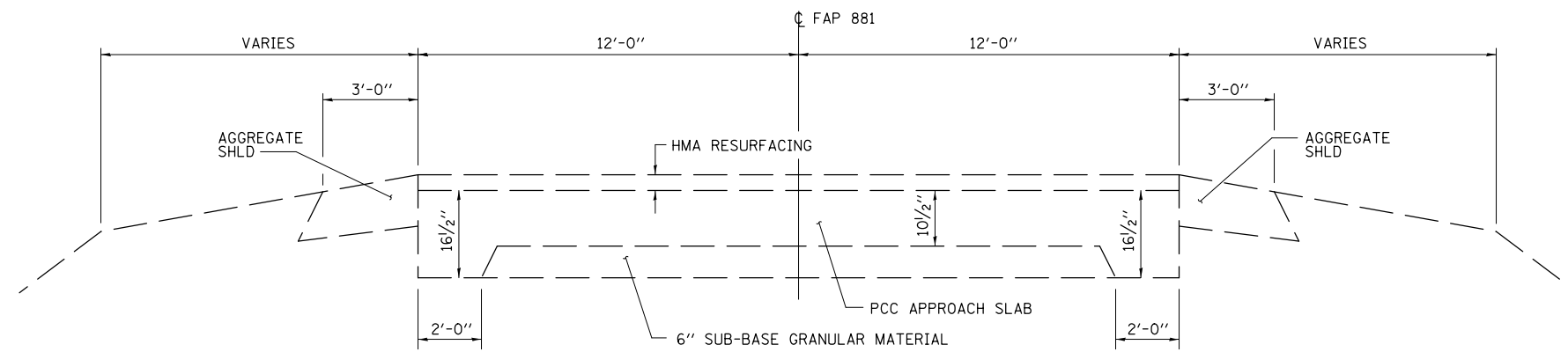
EXISTING TYPICAL SECTION
STA 611+00 TO STA 614+46.82
STA 617+10.23 TO STA 620+00

- NOTES: 1. NO 8" HMA SHOULDERS FROM
 LT STA 614+10 TO LT STA 618+10
 RT STA 613+20 TO RT STA 617+40
 AGGREGATE SHOULDER WIDTH
 VARIES FROM 3' TO 10'
 WITHIN THESE LIMITS
2. GUARDRAIL LOCATIONS:
 RT STA 612+57 TO 614+67
 LT STA 613+14 TO 614+67
 RT STA 616+70 TO 618+32
 LT STA 616+76 TO 618+90

*SLOPE VARIES FOR SUPERELEVATION TRANSITION
 STA 611+00 TO STA 614+41



STA 611+00 TO STA 613+23, RT



EXISTING TYPICAL SECTION
STA 614+46.82 TO STA 614+66.82
STA 616+80.23 TO STA 617+01.23

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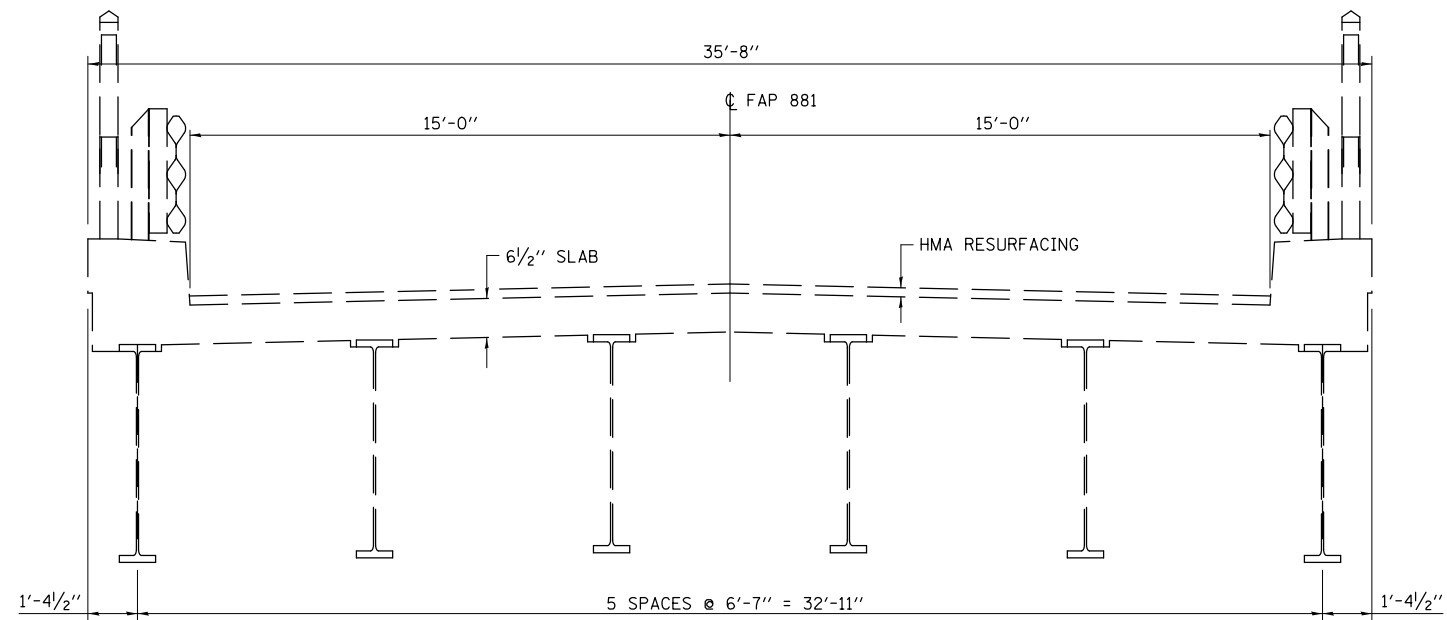
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ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

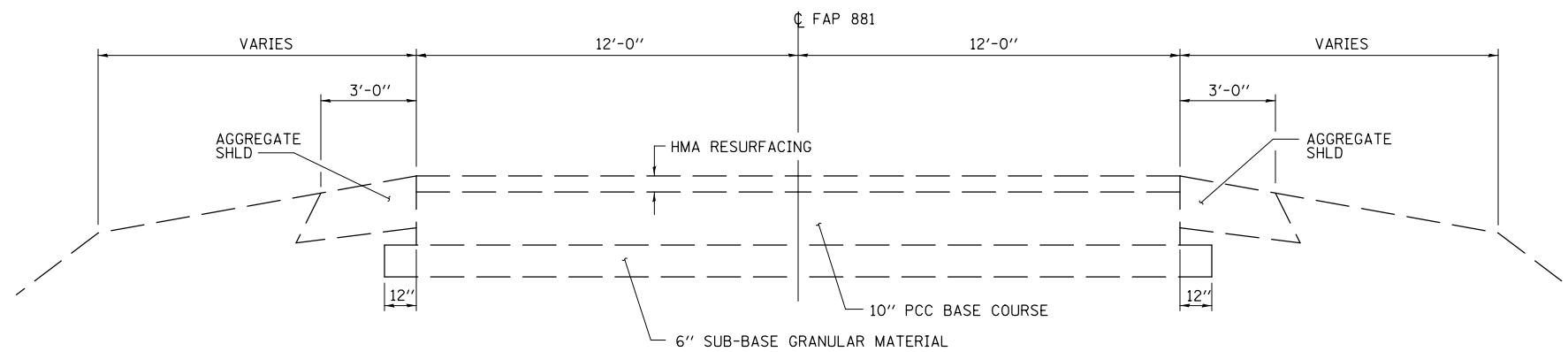
TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	



EXISTING BRIDGE TYPICAL SECTION
CENTERLINE OF STRUCTURE STA 615 + 73.52



EXISTING TYPICAL SECTION
STA 617 + 01.23 TO STA 617 + 10.23

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 PLOT SCALE = 0.1667' / 1"



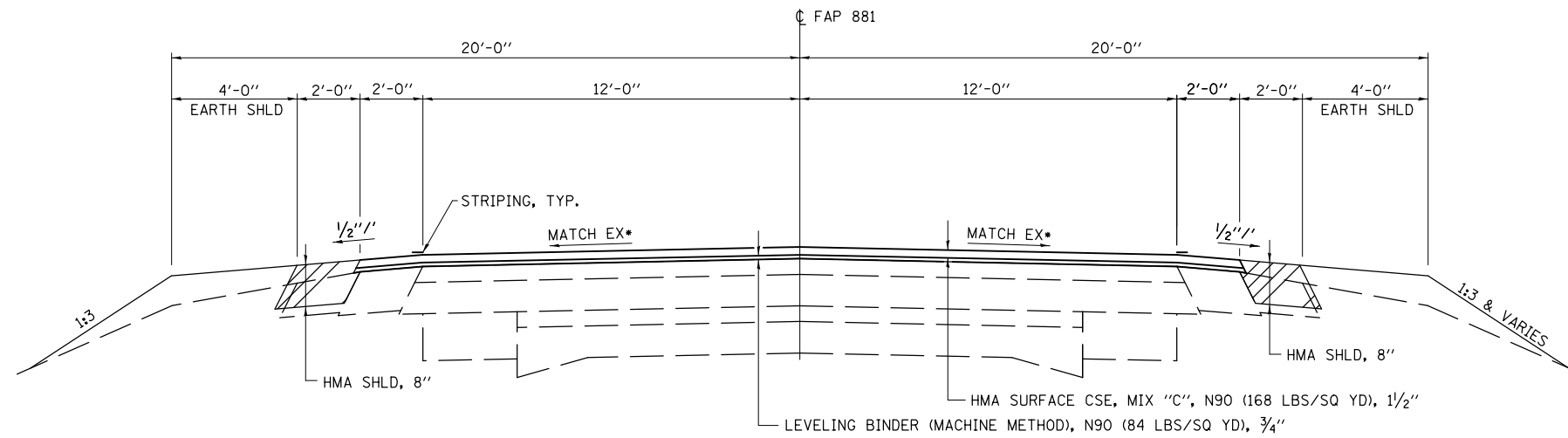
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PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:42:47 PM	DATE - 07/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

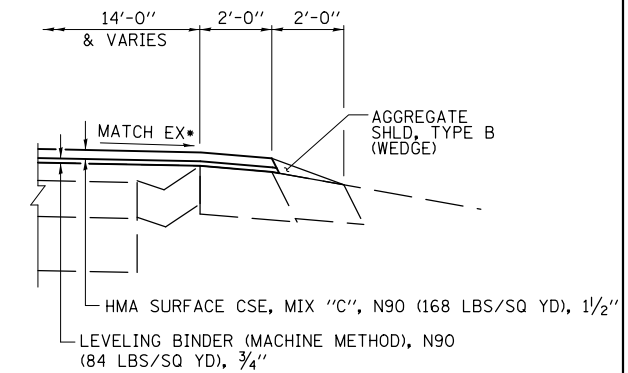
SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

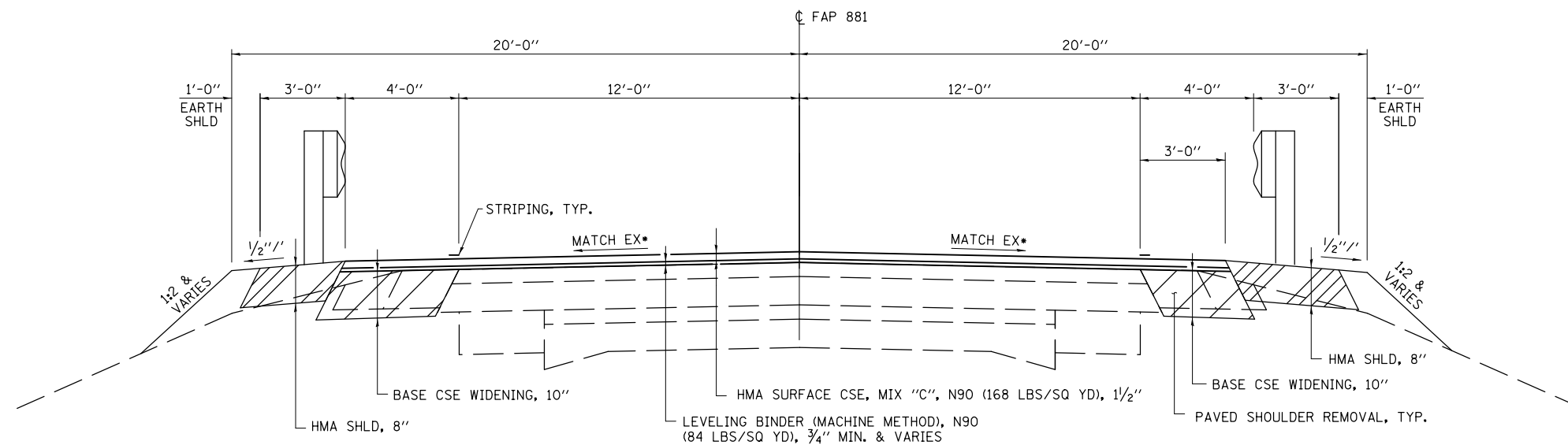


**PROPOSED TYPICAL SECTION
STA 612+32 TO STA 612+90
STA 618+60 TO STA 619+78**

- NOTES: 1. LEVELING BINDER (MACHINE METHOD) IS A 3/4" THICKNESS FROM STA 612+77 TO 614+00 AND FROM STA 617+50 TO 619+33.
2. HMA SURFACE CSE IS A VARIABLE DEPTH FROM STA 612+62 TO 612+77 AND FROM STA 619+33 TO 619+48 THROUGH TRANSITION
3. PROPOSED GUARDRAIL FROM STA 618+60 TO 619+20, RT
- *SLOPE VARIES FOR SUPERELEVATION TRANSITION STA 612+32 TO 614+41



STA 612+32 TO STA 612+90, RT



**PROPOSED TYPICAL SECTION
STA 612+90 TO STA 614+44.33
STA 617+04.33 TO STA 618+60**

- NOTES: 1. BRIDGE APPROACH CONNECTOR (PCC) STA 614+38.33 TO 614+44.33 STA 617+04.33 TO 617+10.33
2. NO PROPOSED GUARDRAIL AND HMA SHLD, 8" FROM LT STA 612+90 TO LT STA 613+41
3. THICKNESS OF LEVELING BINDER (MACHINE METHOD) IS VARIABLE DEPTH STA 614+00 TO STA 614+38.33 AND STA 617+10.33 TO STA 617+50

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SCALE NAME = 1/8" = 1'-0"
FILE NAME = 78083-1.dwg



USER NAME = kah
ESCA PROJECT NO. 1035.06
PLOT SCALE = 0.1667' / 1"
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DESIGNED - SKM/ELH
DRAWN - DWH
CHECKED - ELH
DATE - 08/15

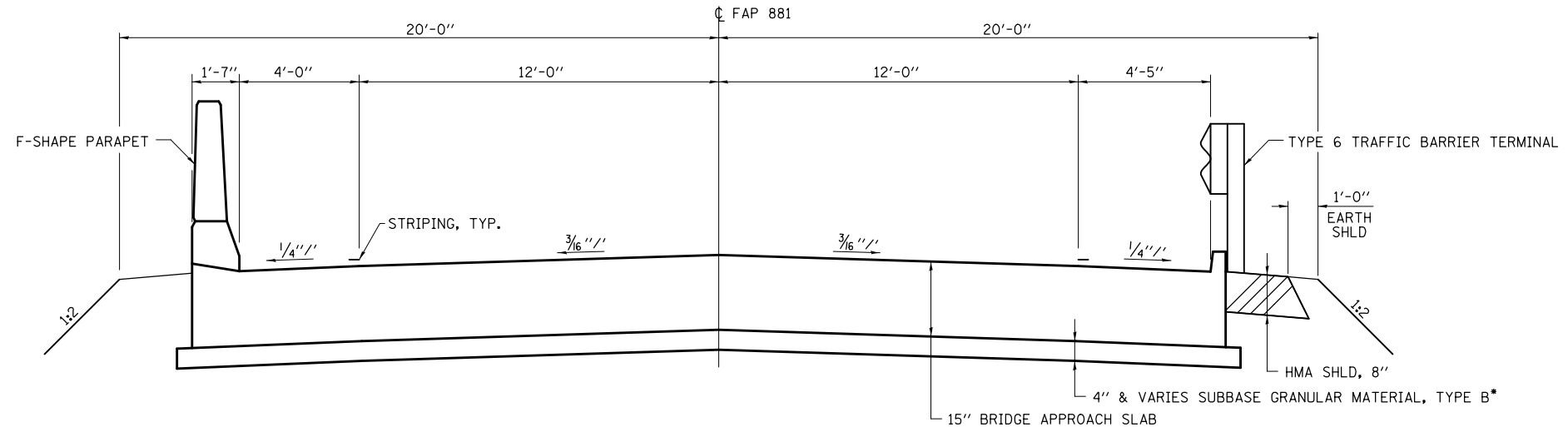
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	12
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

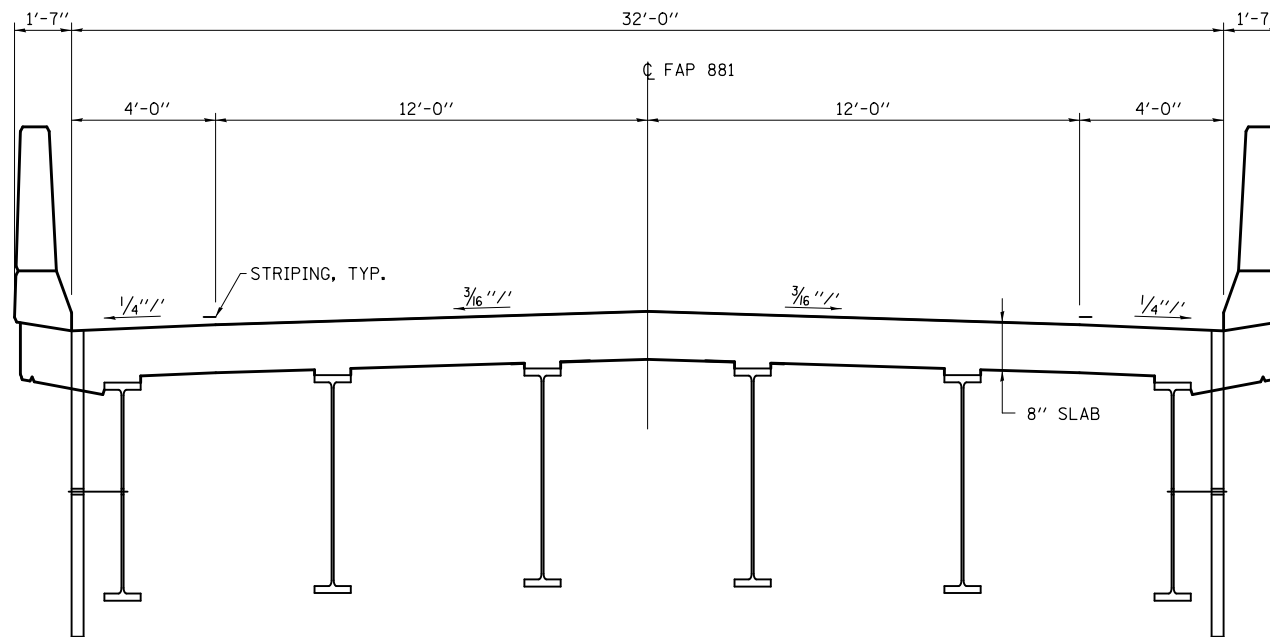


NEAR ABUTMENT

AT APPROACH FOOTING

*INCREASE THICKNESS AS NECESSARY TO FILL VOIDS LEFT FROM PAVEMENT REMOVAL, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE

PROPOSED TYPICAL SECTION
STA 614+44.33 TO STA 614+74.33
STA 616+74.33 TO STA 617+04.33



PROPOSED BRIDGE TYPICAL SECTION
CENTERLINE OF STRUCTURE STA 615+74.33

PRINT DRIVER = L:\ESB\Bates\9
 ESCA PROJECT NO. 1035.06
 PLOT SCALE = 0.1667' / 1"



USER NAME = kah	DESIGNED - SKM/ELH	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:43:06 PM	DATE - 07/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	RIPRAP EXCAVATION MATERIAL	SUITABLE RIPRAP EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
STA 612+32 TO 614+64, LT	40	30			32	-2
STA 612+32 TO 614+64, RT	30	22			12	+10
STA 616+84 TO 619+78, LT	30	22			31	-9
STA 616+84 TO 619+78, RT	170	127			34	+93
STONE RIPRAP						
STRUCTURE EXCAVATION						
TOTALS	270	201			109	+92

NOTES:

- EXCAVATION USED AS EMBANKMENT = (SUITABLE EXCAVATION)*0.75
- RIPRAP EXCAVATION IS NOT A PAY ITEM AND IT IS INCLUDED IN THE COST OF STONE RIPRAP, CLASS A4.
- THE EARTHWORK SCHEDULE DOES NOT REFLECT THE EARTHWORK AND EARTHWORK BALANCE FOR THE VARIOUS STAGES.
- THE EARTHWORK SCHEDULE HAS ASSUMED THE RIPRAP EXCAVATION MAY NOT BE SUITABLE FOR USE AS EMBANKMENT.

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL, ACRES
	ACRE
SE QUADRANT	
NE QUADRANT	0.13
NW QUADRANT	0.04
SW QUADRANT	0.08
TOTAL	0.25

PAVEMENT MARKING SCHEDULE				
LOCATION	PAVEMENT MARKING DESCRIPTION	SHORT TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE	TEMP PAVEMENT MARKING - LINE
		①	6"	6"
		FOOT	FOOT	FOOT
STA 611+30 TO 620+13	YELLOW SKIP-DASH	184	230	230
STA 612+22 TO 619+88, LT	WHITE EDGE		766	766
STA 612+22 TO 619+88, RT	WHITE EDGE		766	766
TOTALS		184	1762	1762

① INCLUDES 2 APPLICATIONS

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE			
LOCATION	RRPM (BRIDGE)	RRPM	RRPM REMOVAL
	EACH	EACH	EACH
STA 612+32 TO 619+78	3	7	7
TOTALS	3	7	7

SEEDING SCHEDULE							
LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
SE QUADRANT	0.10	0.10	9	9	9	0.20	0.20
NE QUADRANT	0.27	0.27	25	25	25	0.54	0.54
NW QUADRANT	0.11	0.11	10	10	10	0.22	0.22
SW QUADRANT	0.27	0.27	25	25	25	0.54	0.54
TOTALS	0.75	0.75	69	69	69	1.50	1.50

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE			
LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ. FT	SQ. FT
STA 611+30 TO 620+13	YELLOW SKIP-DASH	62 ②	
STA 611+30 TO 620+13	YELLOW SKIP-DASH	115 ③	
STA 611+40 TO 613+12	YELLOW SKIP-DASH		25
STA 612+22 TO 619+88, LT	WHITE EDGE	383 ③	
STA 612+22 TO 619+88, RT	WHITE EDGE	383 ③	
STA 613+00 TO 618+35, RT	WHITE EDGE		268
STA 613+09 TO 618+40, LT	WHITE EDGE		266
STA 618+37 TO 620+03	YELLOW SKIP-DASH		25
TOTALS		943	584

- ② REMOVAL OF SHORT TERM PAVEMENT MARKING
 ③ REMOVAL OF TEMP PAVEMENT MARKING - LINE 6"

BASE COURSE WIDENING SCHEDULE	
LOCATION	BASE COURSE WIDENING 10"
	SQ YD
STA 612+90 TO 614+38, LT	66
STA 612+90 TO 614+66, RT	59
STA 616+81 TO 618+60, RT	60
STA 617+10 TO 618+60, LT	67
TOTAL	252

EROSION CONTROL SCHEDULE				
LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS
	POUND	FOOT	SQ YD	FOOT
SE QUADRANT		210	243	
NE QUADRANT		220	955	15
NW QUADRANT		220	172	15
SW QUADRANT		80	725	20
JOBSITE	150			
TOTALS	150	730	2095	50

SHOULDERS SCHEDULE			
LOCATION	AGG SHOULDERS, TYPE B	HMA SHOULDERS, 8"	SHOULDER RUMBLE STRIPS, 16"
	TON	SQ YD	FOOT
STA 612+32 TO 612+90, LT		13	58
STA 612+32 TO 612+81, RT	1		49
STA 612+81 TO 614+60, RT		74	157
STA 612+90 TO 613+33			43
STA 613+33 TO 614+60, LT		38	105
STA 616+90 TO 619+78, LT		81	268
STA 616+90 TO 618+78, RT		119	268
TOTALS	1	325	948

REMOVAL SCHEDULE					
LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT	HMA SURFACE REMOVAL - VAR. DEPTH ⑤	PAVED SHOULDER REMOVAL	GUTTER REMOVAL
	SQ YD	SQ YD	SQ YD	SQ YD	FOOT
STA 612+32		100			
STA 612+90 TO 613+28, RT					38
STA 612+90 TO 614+14, LT				28	
STA 612+90 TO 613+21, RT				7	
STA 614+38 TO 614+66	91				
STA 616+81 TO 617+10	93				
STA 617+10.33 TO 617+50			119		
STA 618+10 TO 618+60, LT				12	
STA 617+40 TO 618+60, RT				27	
STA 619+78		94			
TOTALS	184	194	119	74	38

⑤ HMA SURFACE REMOVAL HAS BEEN INCLUDED ON THE PRE-STAGE I BASE COURSE WIDENING 10". REMOVAL OF EITHER PCC OR HMA WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR HMA SURFACE REMOVAL - VARIABLE DEPTH.

PAVING SCHEDULE					
LOCATION	LEVELING BINDER (MM), N90	HMA SURFACE COURSE, MIX "C", N90	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT) ④	TEMPORARY RAMP
	TON	TON	POUND	TON	SQ YD
STA 612+32					17
STA 612+32 TO 612+90	2	18	97	0.3	
STA 612+90 TO 614+38.33	25	43	345	1.4	
STA 617+10.33 TO 618+60	22	44	349	1.5	
STA 618+60 TO 619+78	10	32	216	0.8	
STA 619+78					16
TOTALS	59	137	1007	4	33

④ INCLUDED FOR INFORMATION ONLY; NOT A PAY ITEM

GUARDRAIL SCHEDULE						
LOCATION	REMOVE AND REERECT SPBGR, TYPE A,	TRAFFIC BARRIER TERMINAL		GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
		TYPE 6	REMOVE AND REERECT TYPE 1 (SPECIAL) TANGENT			
	FOOT	EACH	EACH	EACH	EACH	FOOT
SE QUADRANT	75	1	1	2	1	85
NE QUADRANT	25	1	1	1	1	78
NW QUADRANT	75	1	1	2	1	85
SW QUADRANT	137.5	1	1	2	1	-34
TOTALS	312.5	4	4	7	4	214

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 ESCA PROJECT NO. 1035.06
 PLOT SCALE = 0.1667' / 1"

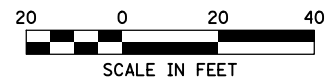


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ESCA PROJECT NO. 1035.06	DRAWN - KAH	REVISED -
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PLOT DATE = 10/13/2015 1:43:29 PM	DATE - 10/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES		
SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 881	SECTION 32B-1	COUNTY SALINE	TOTAL SHEETS 66	SHEET NO. 14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

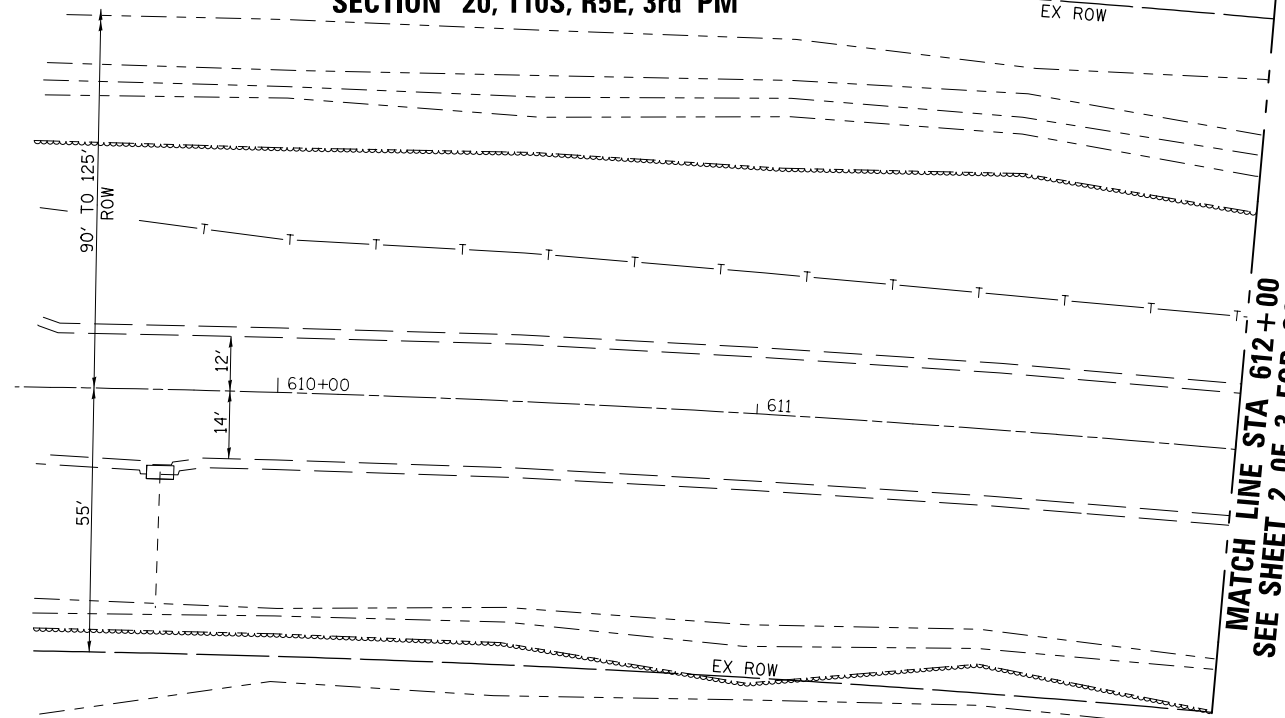


LEGEND

- BASE CSE WIDENING, 10"
- HMA SHOULDERS, 8"
- BR APPR PVT CON (PCC)
- HMA SURFACE REMOVAL

Ⓢ US 45 CURVE DATA
 PI STA 608+60.28
 $\Delta = 17^\circ 09' 12''$ (RT)
 $D = 1^\circ 42' 07''$
 $R = 3,366.24'$
 $T = 507.70'$
 $E = 38.07'$
 $S.E. = 0.025\%$
 S.E. TRANSITION STA 611+39.00
 TO STA 614+41.00
 PC STA = 603+52.58
 PT STA = 613+60.38

SECTION 20, T10S, R5E, 3rd PM



PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	CHECKED	
	BY	

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



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 PLOT TIME = 10:41:01
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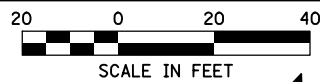
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ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US-45 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 1 OF 3 SHEETS STA. 609+50 TO STA. 612+00

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	15
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				



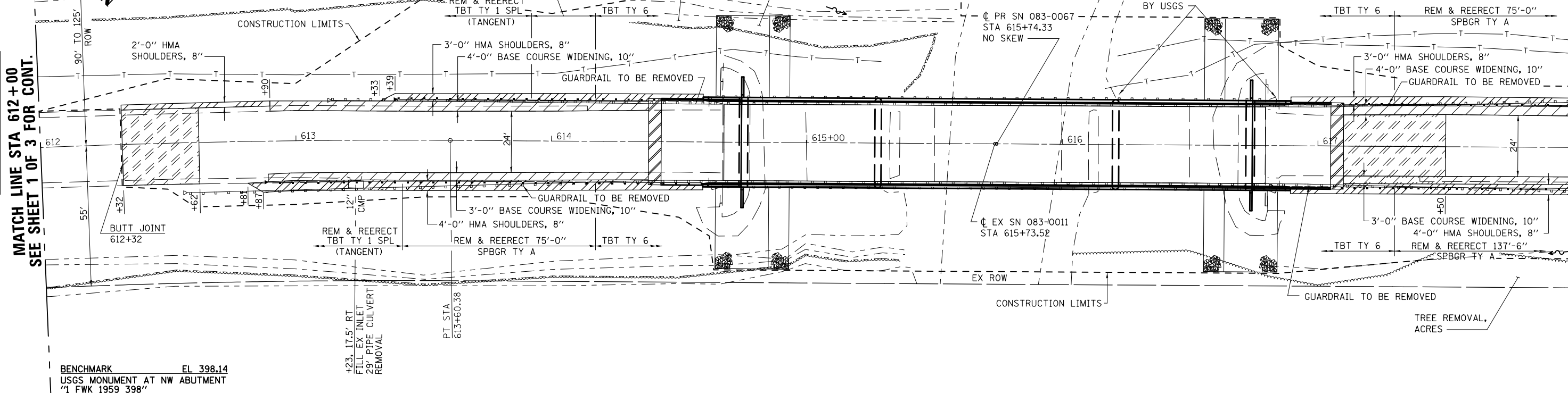
SECTION 20, T10S, R5E, 3rd PM

LEGEND

- BASE CSE WIDENING, 10"
- HMA SHOULDERS, 8"
- BR APPR PVT CON (PCC)
- HMA SURFACE REMOVAL

MATCH LINE STA 612+00
SEE SHEET 1 OF 3 FOR CONT.

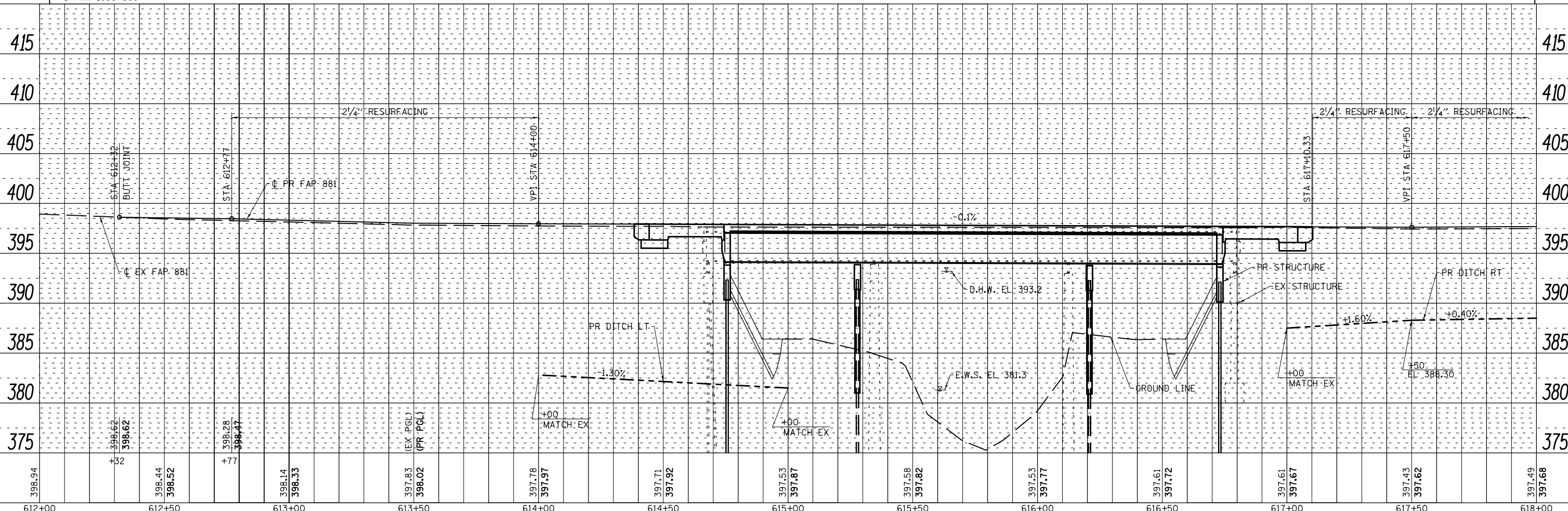
MATCH LINE STA 618+00
SEE SHEET 3 OF 3 FOR CONT.



BENCHMARK EL 398.14
USGS MONUMENT AT NW ABUTMENT
"1 FWK 1959 398"

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

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



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PROJECT NAME: 201002101
FILE NAME: 201002101.dwg



USER NAME = kah
ESCA PROJECT NO. 1035.06
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'
PLOT DATE = 10/13/2015

DESIGNED - SKM	REVISED -
DRAWN - DWH	REVISED -
CHECKED - ELH	REVISED -
DATE - 08/15	REVISED -

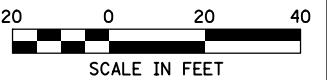
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-45 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 2 OF 3 SHEETS STA. 612+00 TO STA. 618+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	16
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

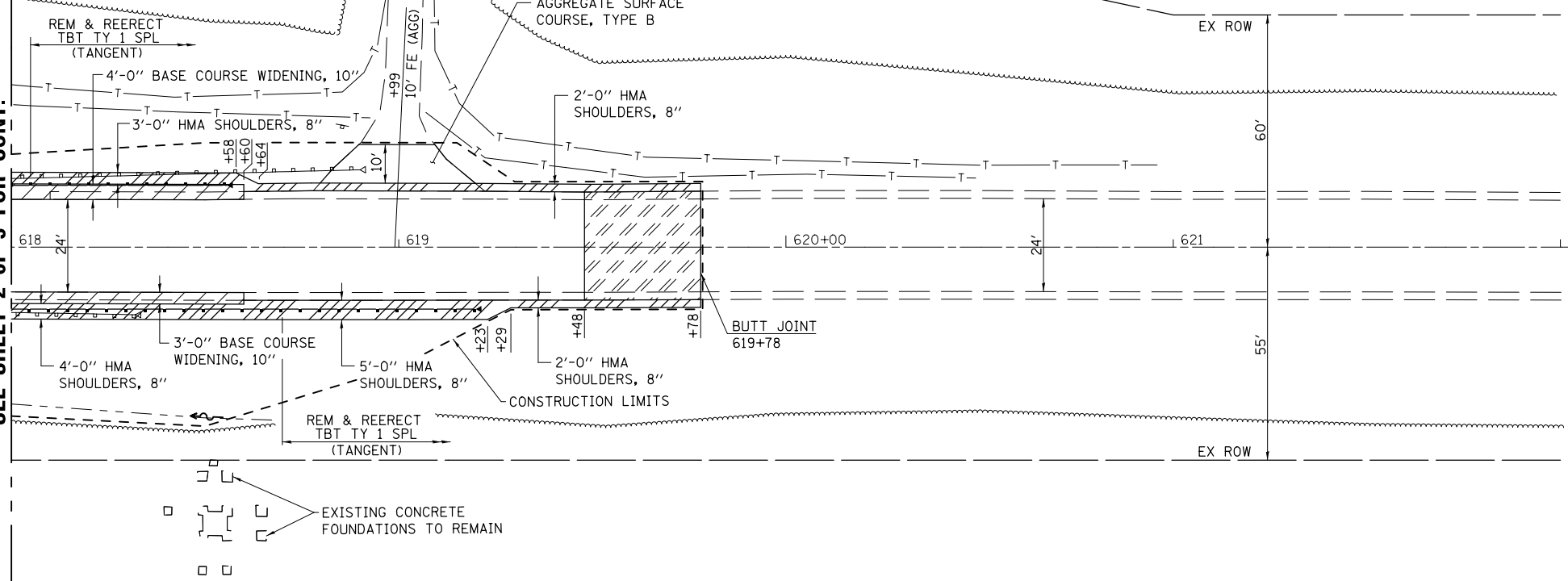
SECTION 20, T10S, R5E, 3rd PM



LEGEND

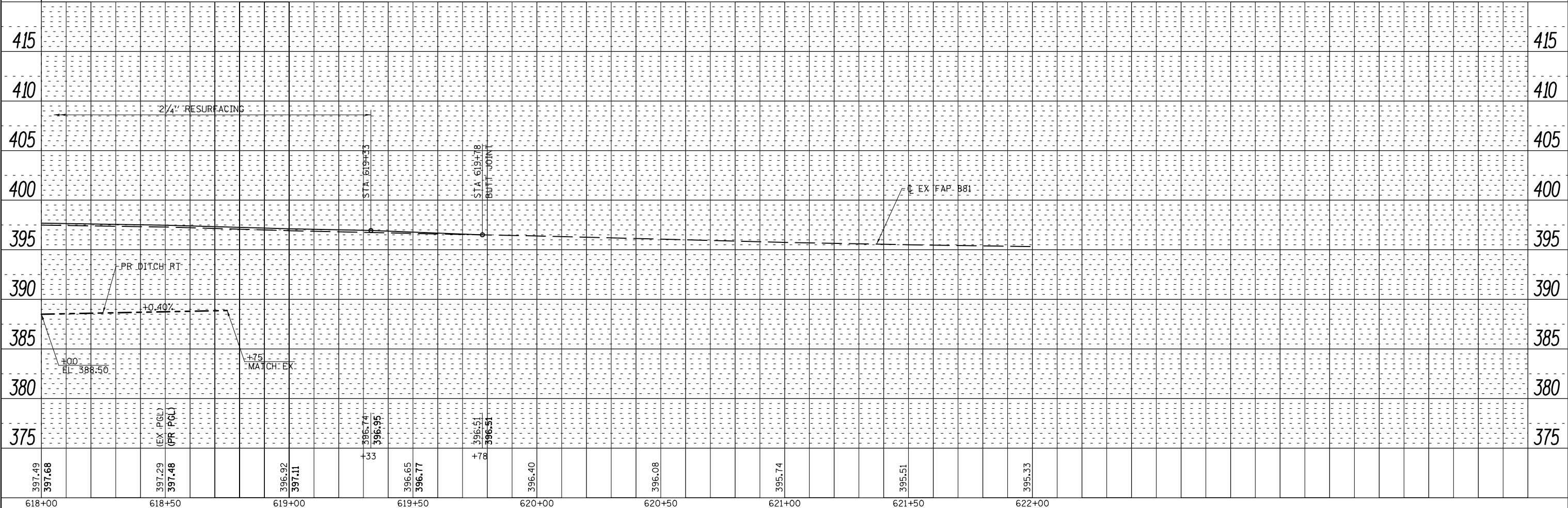
- BASE CSE WIDENING, 10"
- HMA SHOULDERS, 8"
- BR APPR PVT CON (PCC)
- HMA SURFACE REMOVAL

MATCH LINE STA 618 + 00
SEE SHEET 2 OF 3 FOR CONT.



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		



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SCALE = 1"=20'



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ESCA PROJECT NO. 1035.06
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'
PLOT DATE = 10/13/2015

DESIGNED - SKM
DRAWN - DWH
CHECKED - ELH
DATE - 08/15

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US-45 PLAN AND PROFILE

SCALE: AS SHOWN SHEET 3 OF 3 SHEETS STA. 618+00 TO STA. 622+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	17
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

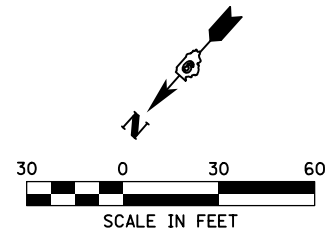
SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER			
STATION, O/S	TO	STATION, O/S	FEET
613+12, 4' LT	TO	614+12, 3' RT	100'
614+12, 3' RT	TO	617+37, 3' RT	325'
617+37, 3' RT	TO	618+37, 4' LT	100'
			TOTAL = 525'

- TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH
- TEMPORARY RUMBLE STRIPS - 6 EACH
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH
- PINNING TEMPORARY CONCRETE BARRIER - 72 EACH

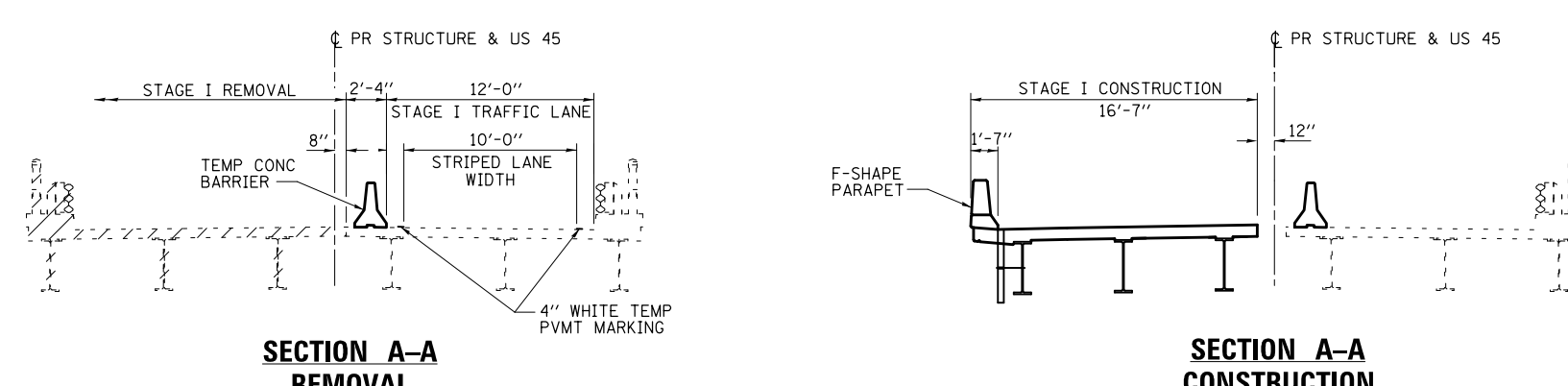
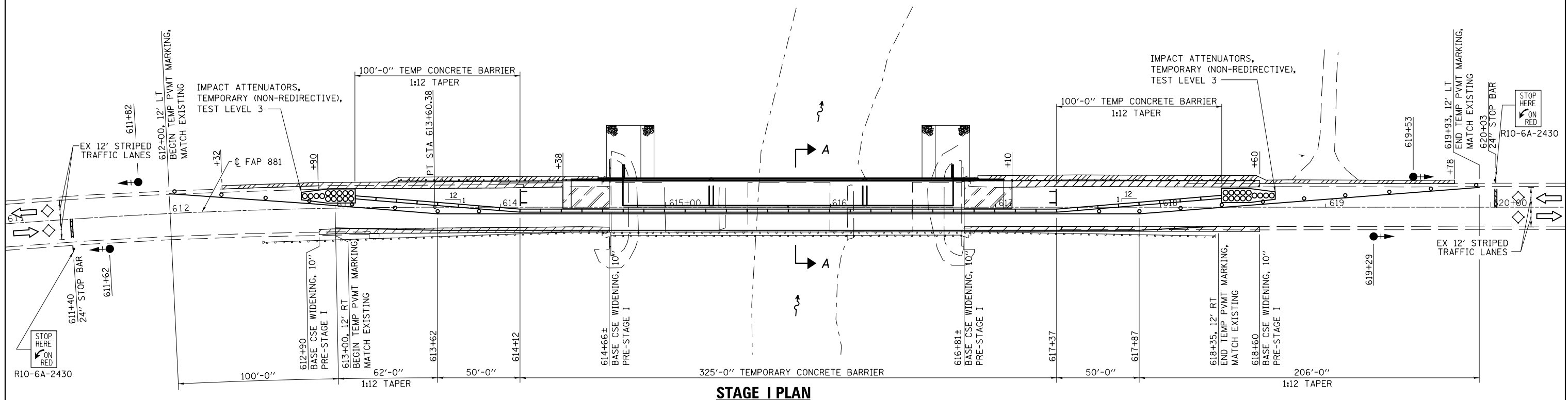
LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDERS, 8"



GENERAL NOTES

- PRE-STAGE I: CONSTRUCT THE BASE COURSE FROM RT STA 612+90 TO RT STA 618+60 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 THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH 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 RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON SHEET 19 SHALL BE 10'-6" FOR STAGE I CONSTRUCTION.
- THE ADVANCE 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 FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. 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.
- 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 I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BASE COURSE WIDENING, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS FROM LT STA 612+32 TO LT STA 619+78 AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS. THE LEVELING BINDER (MACHINE METHOD) AND THE HMA SURFACE COURSE SHALL ALSO BE PLACED ON THE TRAFFIC LANE ADJACENT TO THE PROPOSED HMA SHOULDERS TO ALLOW COMPLETION OF THE HMA SHOULDERS PRIOR TO THE INSTALLATION OF THE GUARDRAIL AND TERMINALS. PLACEMENT OF THE LEVELING BINDER AND HMA SURFACE AS INDICATED MAY REQUIRE RELOCATION OF THE TEMPORARY BARRIERS AND THE IMPACT ATTENUATORS DURING THE DAYTIME HOURS AND ALSO PLACEMENT OF A TEMPORARY RAMP IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR WILL SUBMIT A WRITTEN PLAN TO THE ENGINEER FOR APPROVAL THAT DETAILS THE STAGING OF THE HMA RESURFACING FOR STAGE I CONSTRUCTION TO MEET THESE REQUIREMENTS. THE COST ASSOCIATED WITH THE STAGING OF THE HMA RESURFACING, INCLUDING THE TEMPORARY RAMP, WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.
- THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE ACCESS WITH THE PROPERTY OWNER DURING CONSTRUCTION FOR THE FIELD ENTRANCE AT LT STA 619+00.



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ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
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PLOT DATE = 10/13/2015 1:46:37 PM	DATE - 08/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS

SCALE: AS SHOWN SHEET NO. 1 OF 2 SHEETS STA. 611+00 TO STA. 620+35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	18
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER	STATION, O/S	TO	STATION, O/S	FEET
	613+12, 4' RT	TO	614+12, 3.4' LT	100
	614+12, 3.4' LT	TO	617+37, 3.4' LT	325
	617+37, 3.4' LT	TO	618+37, 4' RT	100
				TOTAL 525

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

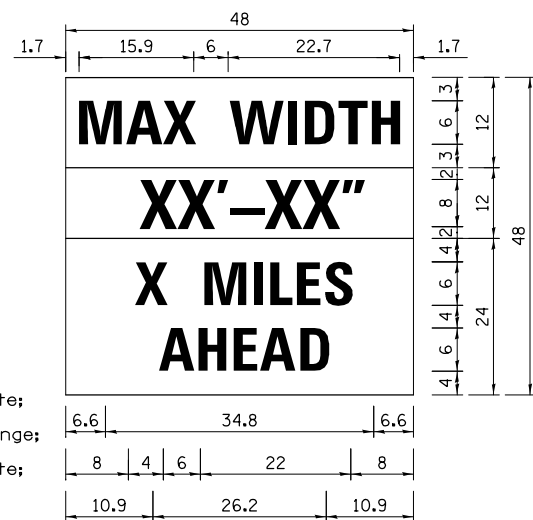
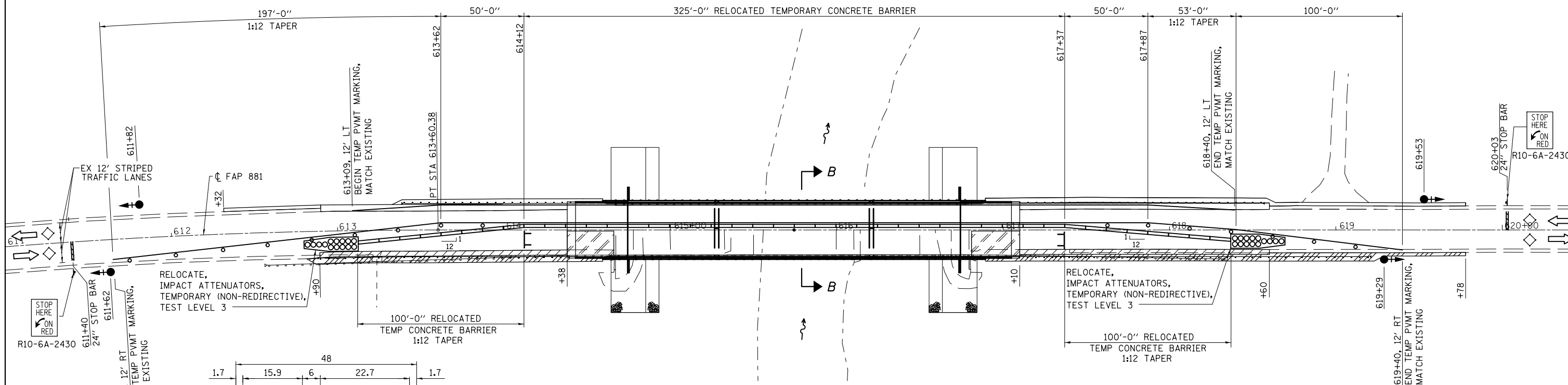
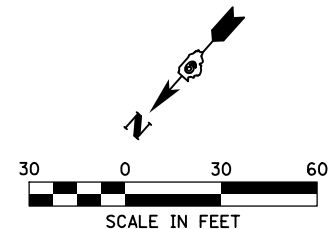
PINNING TEMPORARY CONCRETE BARRIER - 24 EACH

LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDERS, 8"

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 THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH 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 RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THIS SHEET SHALL BE 11'-1" FOR STAGE II CONSTRUCTION.
- THE ADVANCE 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 FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. 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.
- 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 TEMPORARY SIGNALS WILL REMAIN IN OPERATION AND THE TEMPORARY BARRIERS WILL REMAIN IN PLACE UNTIL THE BRIDGE SUPERSTRUCTURE IS COMPLETE INCLUDING PARAPETS AND APPROACH PAVEMENT. THE REMAINING HMA SHOULDERS, GUARDRAIL, AND TRAFFIC BARRIER TERMINALS SHALL BE COMPLETED USING THE APPROPRIATE STANDARDS INCLUDED IN THE PLANS AND TRAFFIC SHALL BE OPEN TO BOTH LANES DURING NON-WORKING HOURS. THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SO THERE IS NO MORE THAN TWO WEEKS BETWEEN THE REMOVAL OF THE TEMPORARY BARRIERS AND THE START OF GUARDRAIL AND TERMINAL INSTALLATION.
- THE CONTRACTOR'S OPERATION MAY RESULT IN A DROP-OFF AT THE END OF THE BRIDGE APPROACH PAVEMENT THAT IS UNDER TRAFFIC PRIOR TO THE HMA RESURFACING. TEMPORARY RAMPS SHALL BE PROVIDED AT THESE LOCATIONS IF NEEDED ACCORDING TO ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE COST FOR THE TEMPORARY RAMPS AT THESE LOCATIONS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.
- THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE ACCESS WITH THE PROPERTY OWNER DURING CONSTRUCTION FOR THE FIELD ENTRANCE AT LT STA 619+00.

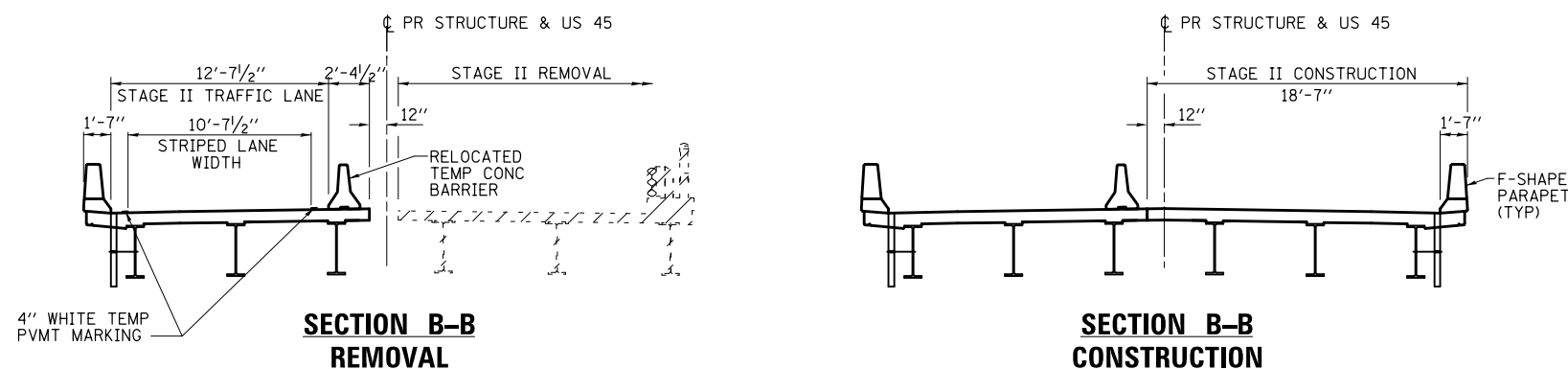


W12-I103

W12-I103 (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

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

STAGE II PLAN



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 611+00 TO STA. 620+35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	19
CONTRACT NO. 78083				

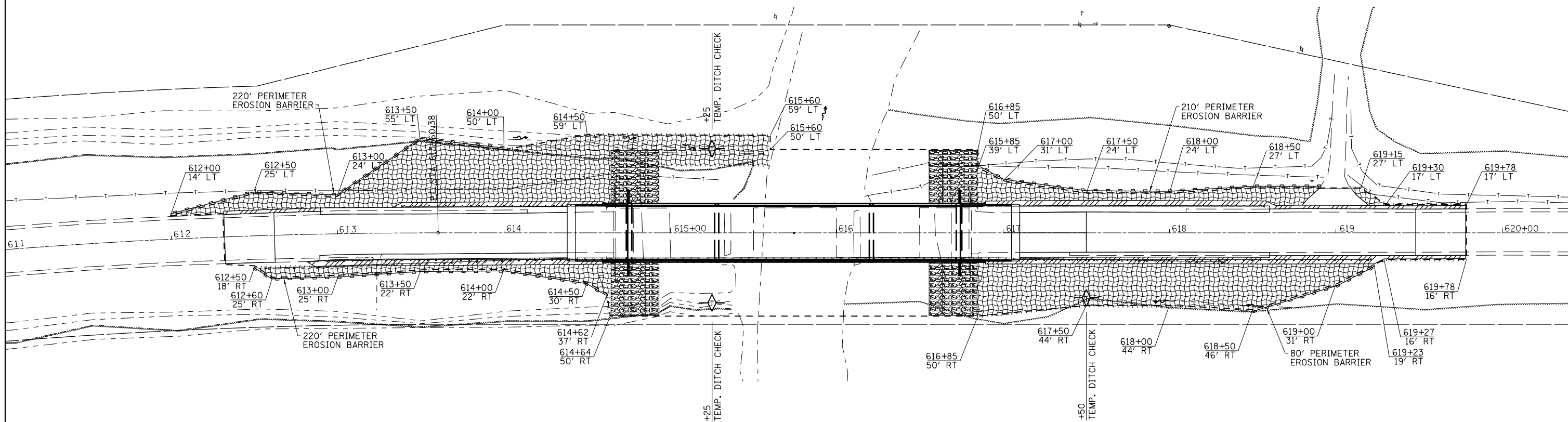
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



LEGEND

- CONSTRUCTION LIMITS
- [Hatched pattern] SEEDING, CLASS 2A AND EROSION CONTROL BLANKET
- [Line with arrow] PERIMETER EROSION BARRIER
- [Diamond symbol] TEMPORARY DITCH CHECK
- [Stippled pattern] STONE RIPRAP, CLASS A4

STATIONS AND OFFSETS SHOWN ARE TO THE CONSTRUCTION LIMITS. THE PERIMETER EROSION BARRIER WILL BE PLACED 1'-0" OUTSIDE THE CONSTRUCTION LIMITS AT LOCATIONS SHOWN ON THE PLAN.



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 PLOT DATE = 10/13/2015 1:47:09 PM



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 ESCA PROJECT NO. 1035.06
 PLOT SCALE = 0.1667" / 1' = 1/6"
 PLOT DATE = 10/13/2015 1:47:09 PM

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 DRAWN - DWH
 CHECKED - ELH
 DATE - 08/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

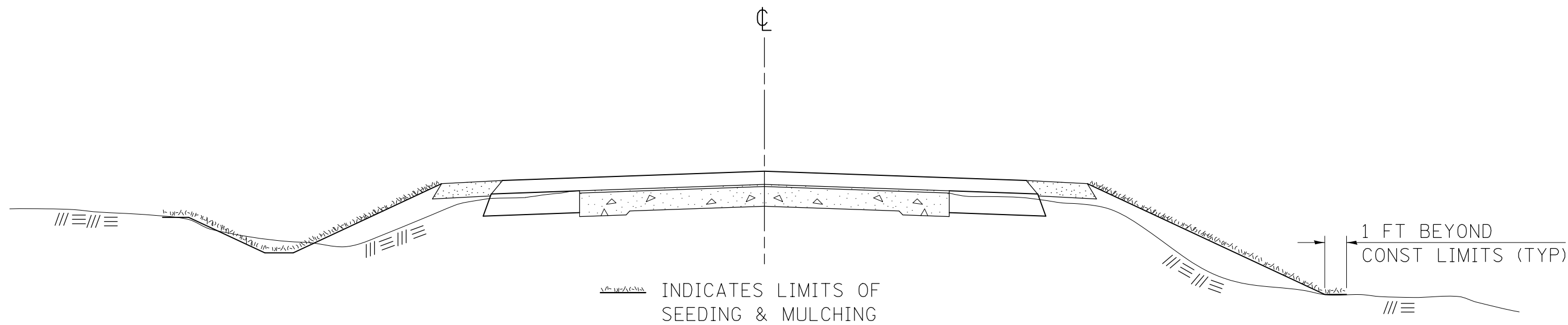
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 611+00 TO STA. 620+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	20
CONTRACT NO. 78083				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SEEDING & MULCHING



GENERAL NOTES

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

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

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

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

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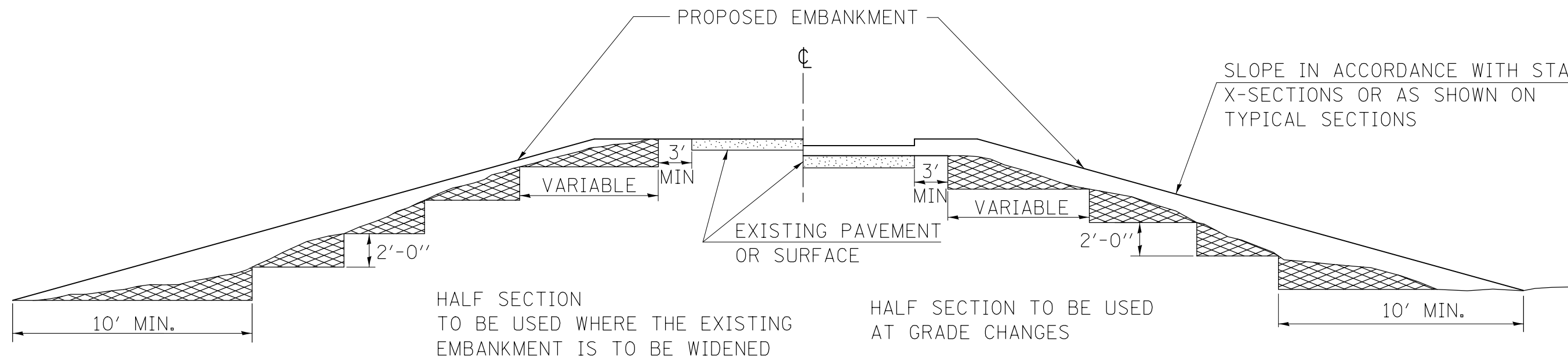
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEEDING AND MULCHING DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	21
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



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

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

STD. 9-16

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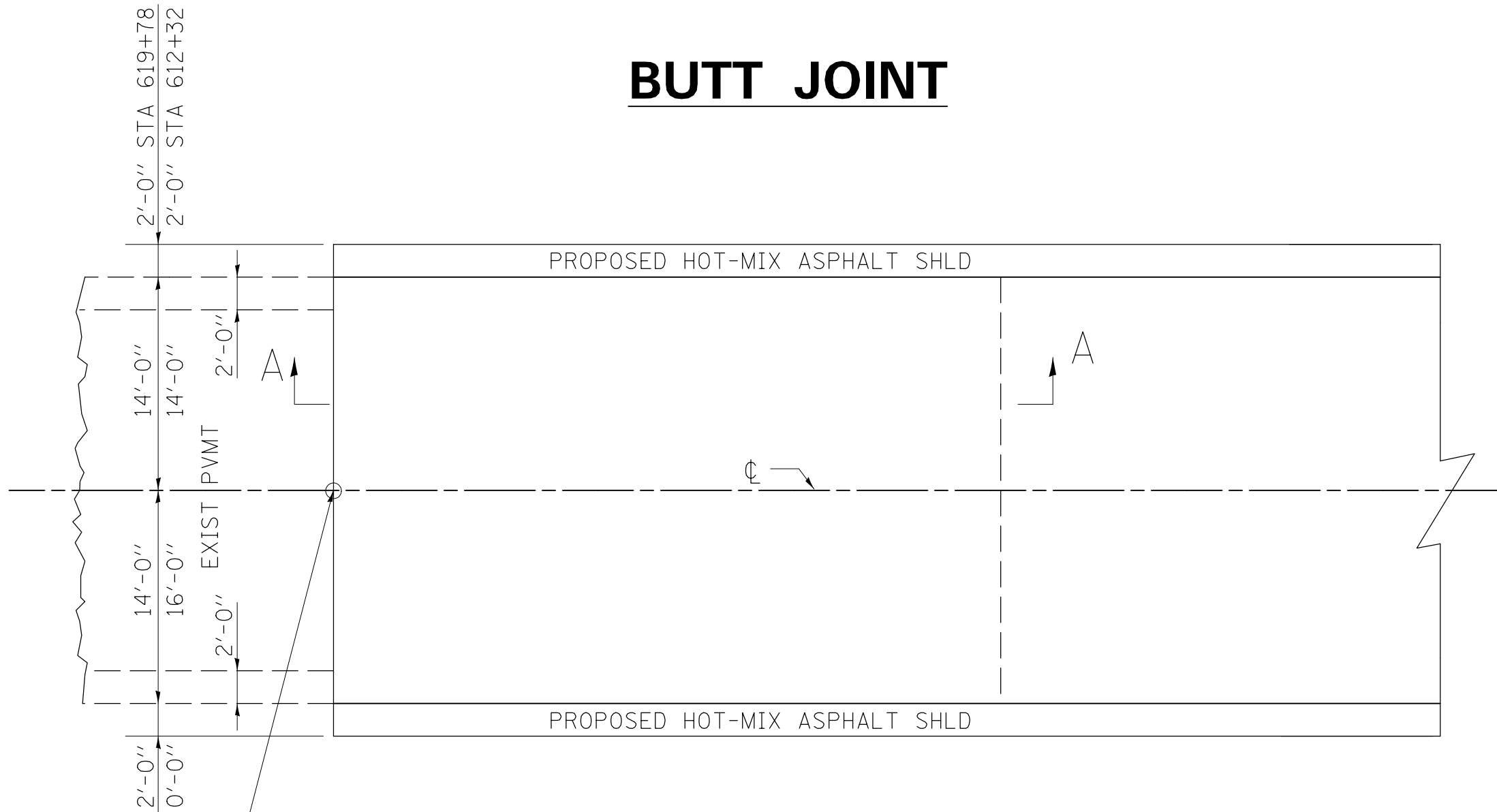
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STEP CONSTRUCTION ON EXISTING FILL DETAILS

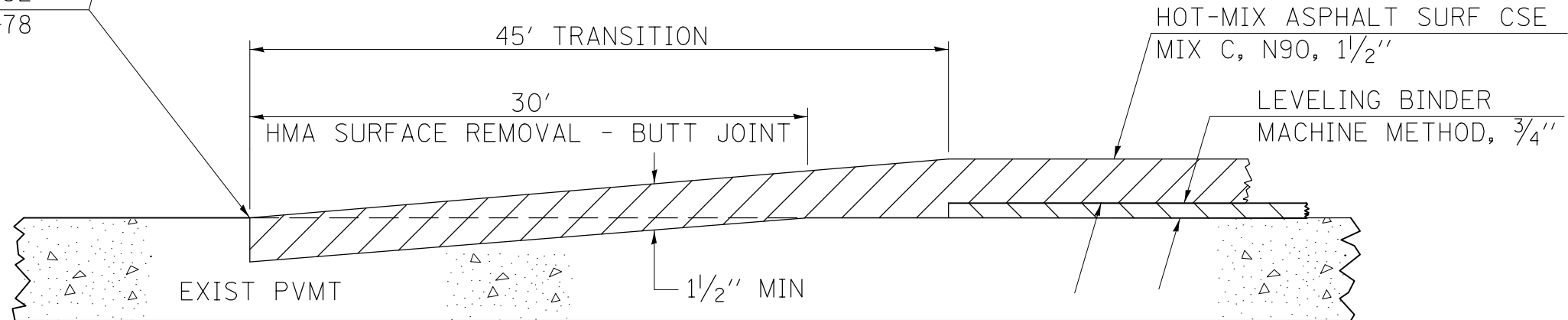
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78083	

BUTT JOINT



STA 612+32
STA 619+78



SECTION A-A

REVISIONS

DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

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PLOT DATE = 10/13/2015 1:47:39 PM	DATE - 08/15	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT DETAIL

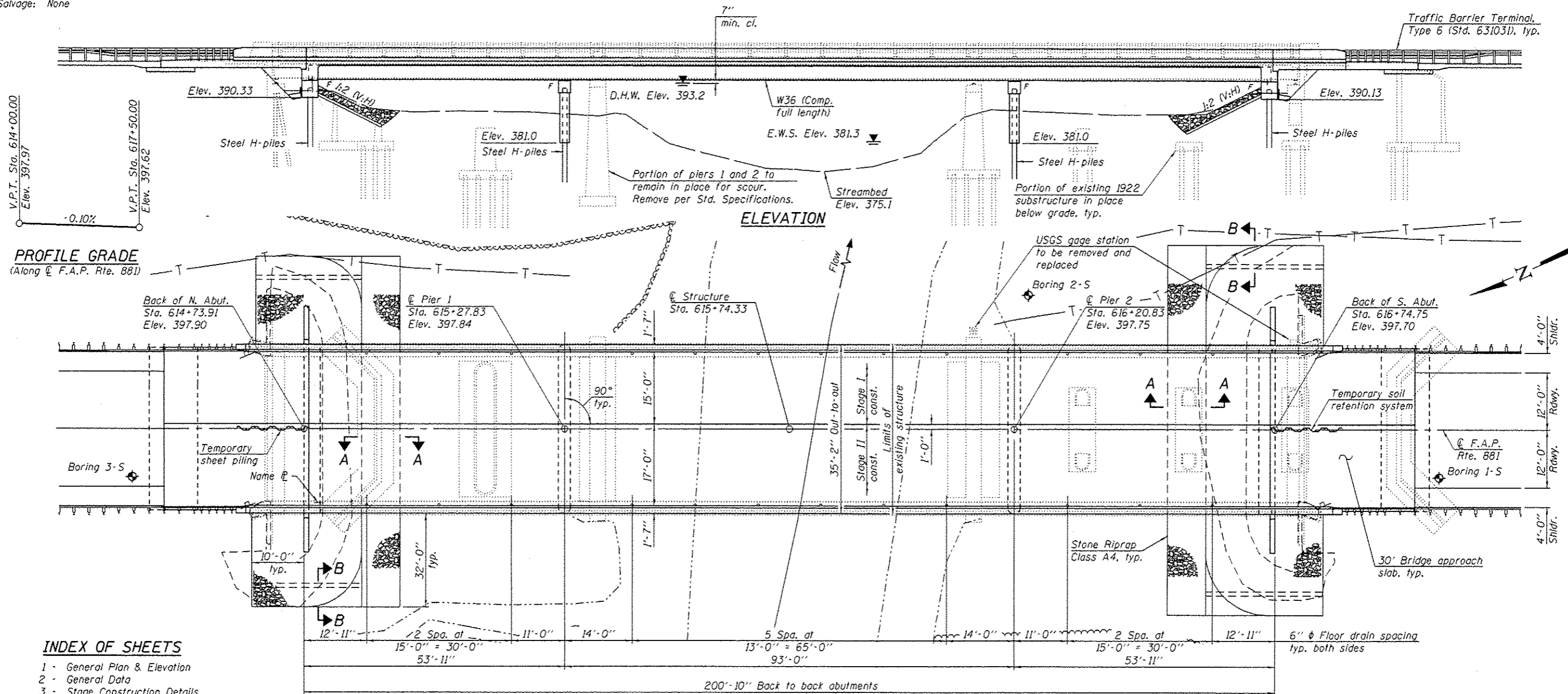
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	23
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Bench Mark: USGS monument at NW abut., "1 FWK 1959 398", Elev. 398.14

Existing structure: Structure No. 083-0011, built in 1922 as SBI Route 1, Section 33 B&C at Sta. 615+73.52. The existing structure is a three span non-composite continuous wide flange beam bridge supporting a R.C. deck. The north abutment is a pile bent abutment on steel H piles. The south abutment is a combination of a pile bent abutment on steel piles constructed onto the 1922 existing pier five on spread footing and untreated timber piles. Pier one is a solid wall hammerhead pier on a spread footing. Pier two is a solid wall hammerhead pier on a spread footing and untreated timber piles constructed from the 1922 existing pier 2. Overall length is 214'-5" from back to back abutments. Bridge width is 35'-8" out to out of deck. Existing structure is to be removed and replaced. Traffic will be maintained utilizing stage construction.

Salvage: None



DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

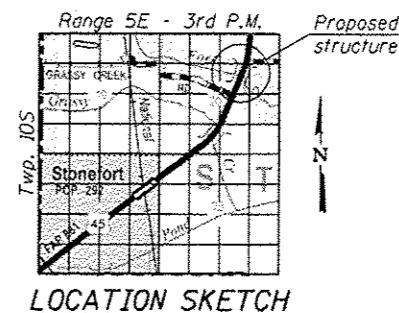
PLAN

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.27 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.76 g
 Soil Site Class = C



GENERAL PLAN AND ELEVATION
U.S. ROUTE 45 OVER
SOUTH FORK OF SALINE RIVER
F.A.P. RTE. 881 - SEC. 32B-1
SALINE COUNTY
STATION 615+74.33
STRUCTURE NO. 083-0067



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 26 SHEETS

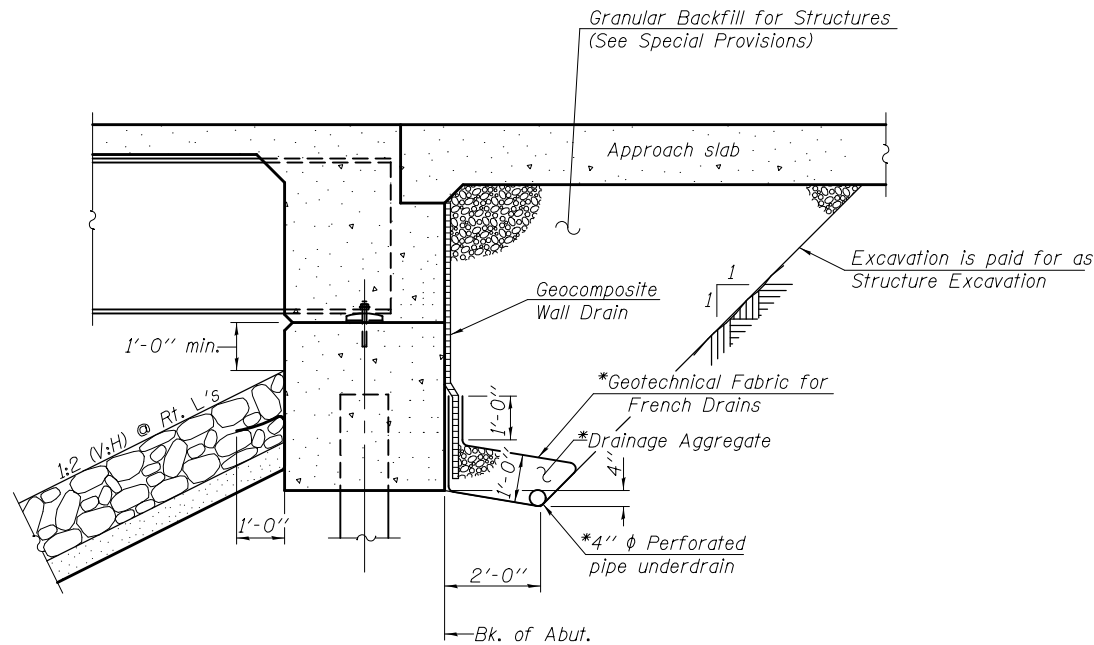
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	24
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

12/4/2015 9:59:20 AM

DESIGNED - *John A. Chiswick*
 CHECKED - *Gene Pentecost* NRB
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - *JMO/TP/NRB/IGRA*

EXAMINED - *David Carl Puzey*
 PASSED - *David Carl Puzey*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - 12/7/2015
 REVISED



SECTION THRU INTEGRAL ABUTMENT

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

Note:

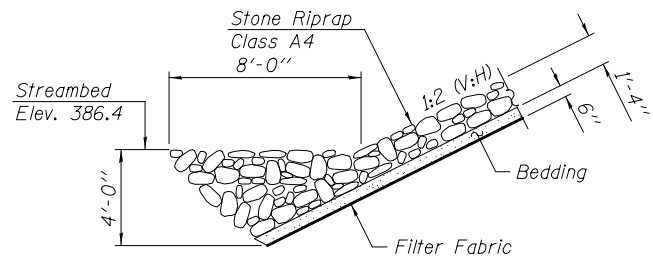
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

Granular backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.

STATION 615+74.33
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 881 - SEC. 32B-1
 LOADING HL-93
 STRUCTURE NO. 083-0067

NAME PLATE

See Std. 515001



SECTION A-A

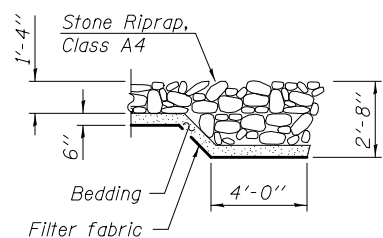
DESIGN SCOUR ELEVATION TABLE

	N. Abut.	Pier 1	Pier 2	S. Abut.
Q100	390.33	382.00	382.00	390.13
Q500	390.33	382.00	382.00	390.13

WATERWAY INFORMATION

Drainage Area = 152 mi.² Existing & proposed Low Grade Elev. 395.08 @ Sta. 637+00

Flood	Freq. Yr.	Q (C.F.S.)	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.			
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.		
10	10	SN 083-0011	3,850	3,880	1,495	1,785	392.2	0.2	0.2	392.4	392.4
		SN 083-0067	2,090	2,060	843	843					
		Total	5,940	5,940	2,338	2,628					
50	50	SN 083-0011	5,840	5,860	1,703.0	2,026.0	393.2	0.3	0.3	393.5	393.5
		SN 083-0067	2,300	2,280	843.0	843.0					
		Total	8,140	8,140	2,546.0	2,869.0					
100	100	SN 083-0011	6,260	6,670	1,766.0	2,099.0	393.5	0.4	0.4	393.9	393.9
		SN 083-0067	2,800	2,390	843.0	843.0					
		Total	9,060	9,060	2,609.0	2,942.0					
500	500	SN 083-0011	8,360	8,530	1,793.0	2,161.0	394.2	0.6	0.6	394.8	394.8
		SN 083-0067	2,940	2,770	843.0	843.0					
		Total	11,300	11,300	2,636.0	3,004.0					



SECTION B-B

GENERAL NOTES

Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts. Bolts 7/8 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
 Calculated weight of Structural Steel = 200,360 Lbs. (M270 Grade 50)
 Calculated weight of Structural Steel = 19,040 Lbs. (M270 Grade 36)
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/4 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 Slipforming of the parapet is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		691	691
Filter Fabric	Sq. Yd.		691	691
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		254	254
Floor Drains	Each	24		24
Concrete Structures	Cu. Yd.		140.3	140.3
Concrete Superstructure	Cu. Yd.	353.3		353.3
Bridge Deck Grooving	Sq. Yd.	866		866
Protective Coat	Sq. Yd.	1,120		1,120
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,996		3,996
Reinforcement Bars, Epoxy Coated	Pound	86,600	13,650	100,250
Bar Splicers	Each	736	166	902
Furnishing Steel Piles HP12x84	Foot		498	498
Furnishing Steel Piles HP14x117	Foot		402	402
Driving Piles	Foot		900	900
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		48	48
Geocomposite Wall Drain	Sq. Yd.		62	62
Granular Backfill for Structures	Cu. Yd.		120	120
Temporary Sheet Piling	Sq. Ft.		250	250
Pipe Underdrains for Structures 4"	Foot		140	140
Setting Piles in Rock	Each		12	12
Temporary Soil Retention System	Sq. Ft.		80	80

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
 PASSED

Joanne F. J. [Signature]
 ENGINEER OF BRIDGE DESIGN
 [Signature]
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015

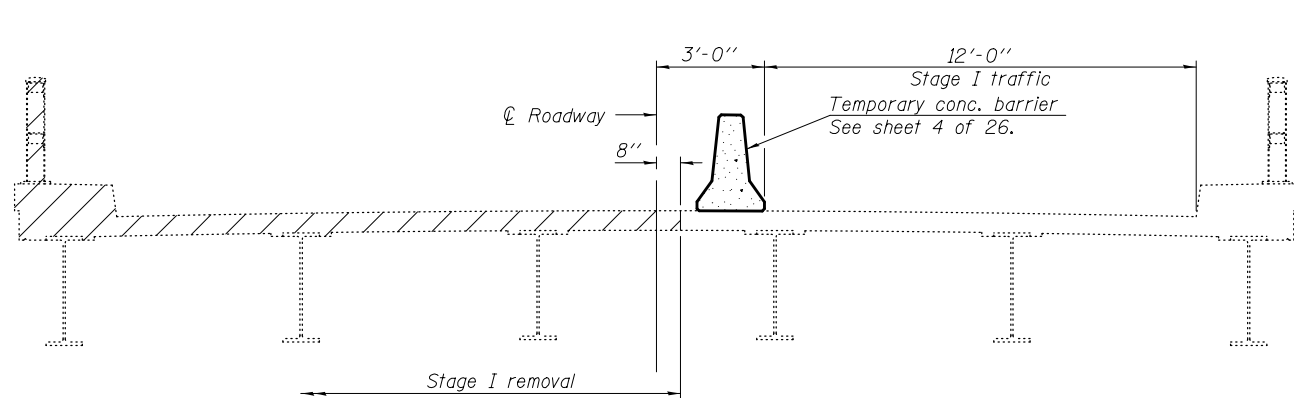
REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

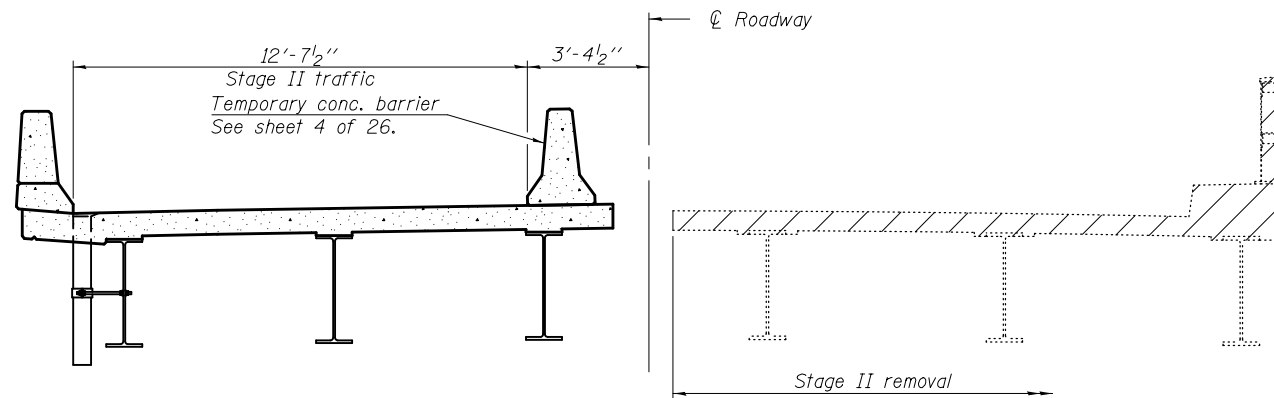
GENERAL DATA
 STRUCTURE NO. 083 - 0067

SHEET NO. 2 OF 26 SHEETS

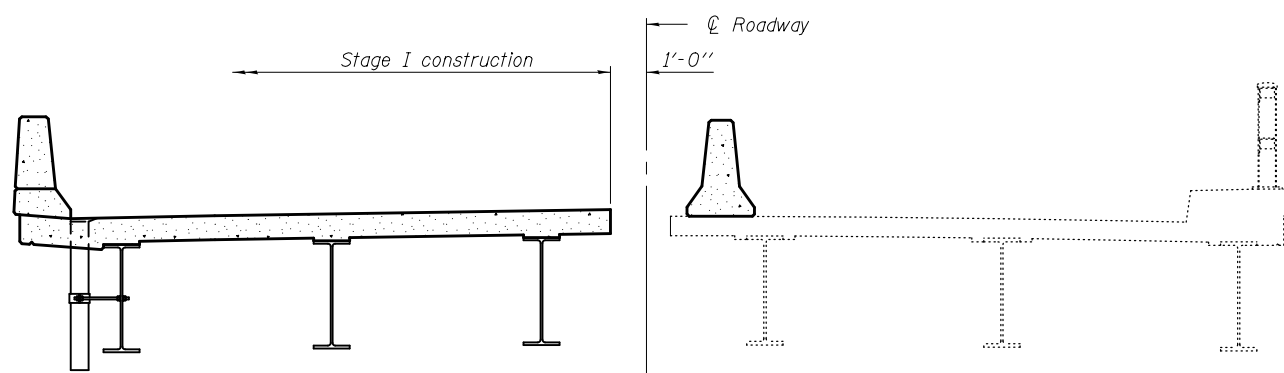
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	25
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				



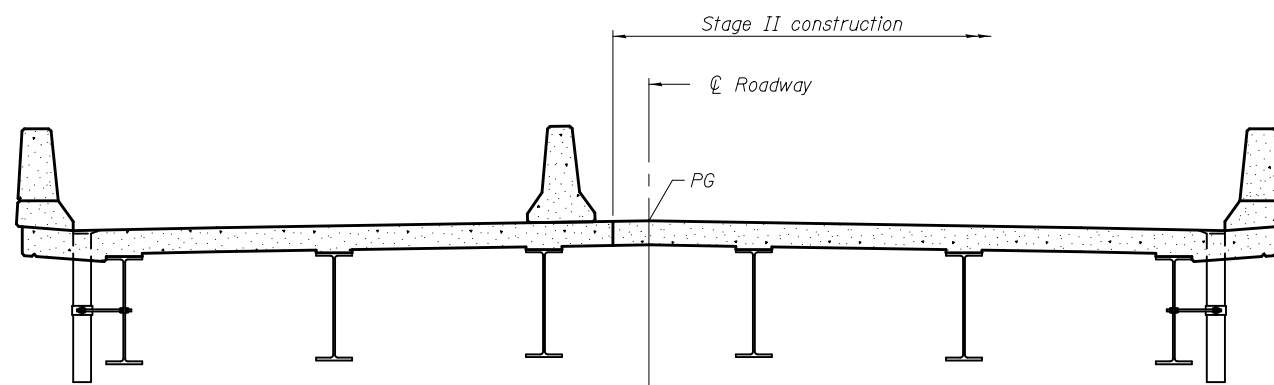
STAGE I REMOVAL



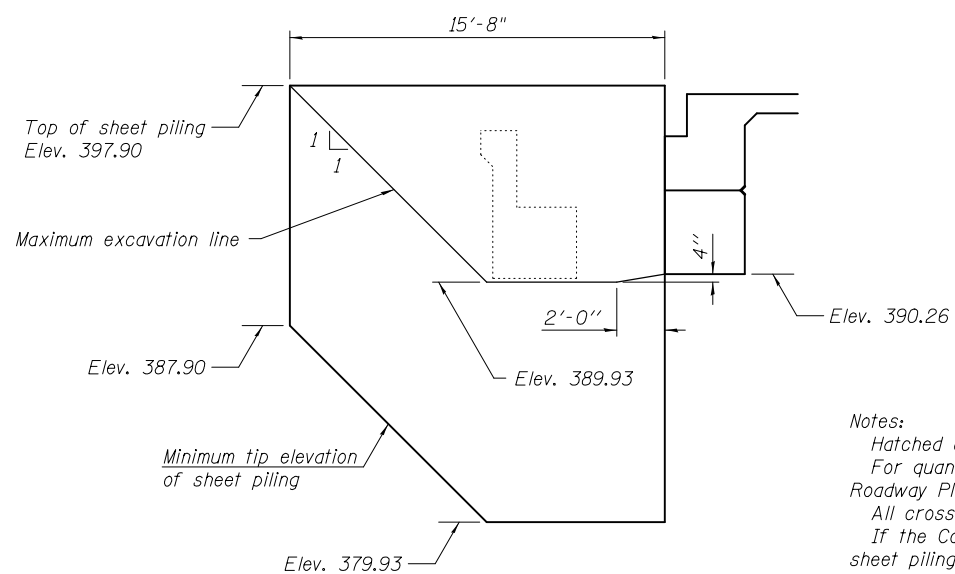
STAGE II REMOVAL



STAGE I CONSTRUCTION

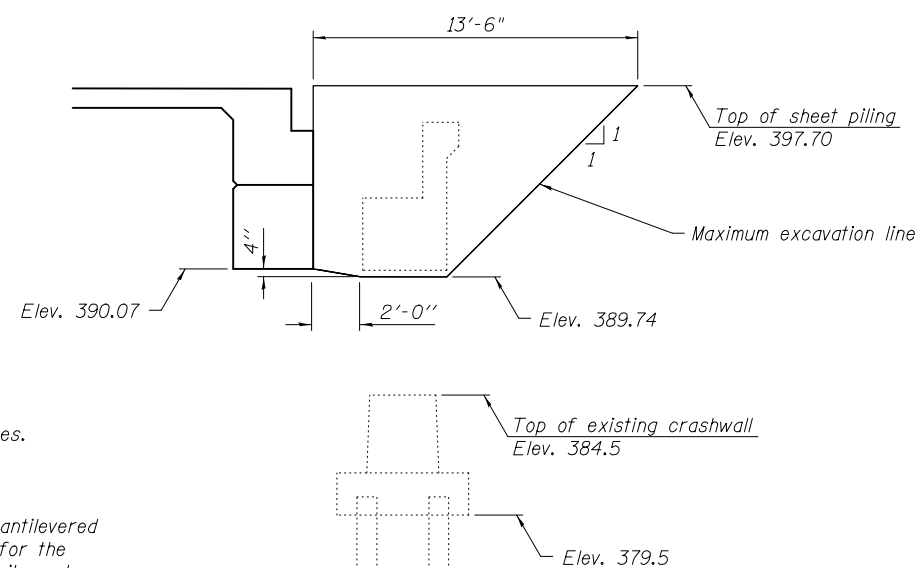


STAGE II CONSTRUCTION



**NORTH ABUTMENT
TEMPORARY SHEET PILING**

Minimum section modulus = 4.6 in.³/ft.



**SOUTH ABUTMENT
TEMPORARY SOIL RETENTION**

Notes:
 Hatched areas indicate removal of existing structures.
 For quantity of temporary concrete barrier, see Roadway Plans.
 All cross sections are taken looking South.
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans for the North Abutment, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary for the South Abutment. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

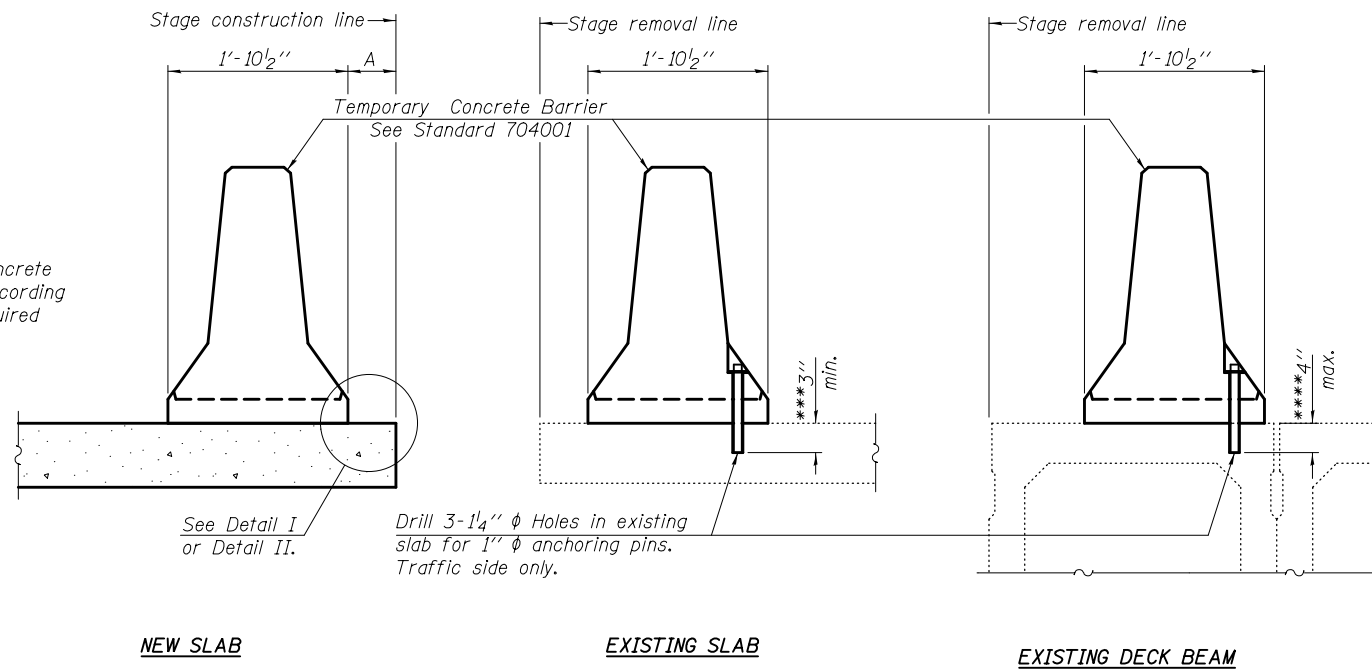
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 083 - 0067**

SHEET NO. 3 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	26
CONTRACT NO. 78083				

ILLINOIS FED. AID PROJECT

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

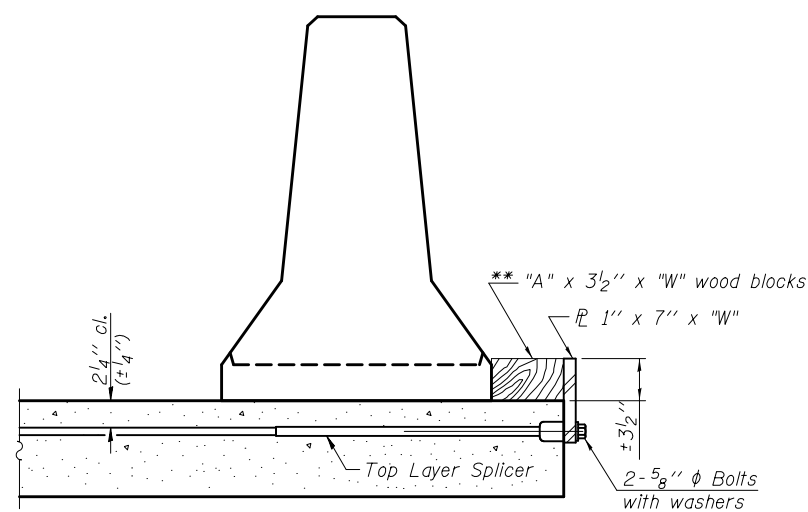
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" diameter bolts screwed to coupler at approximate center of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" diameter Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.

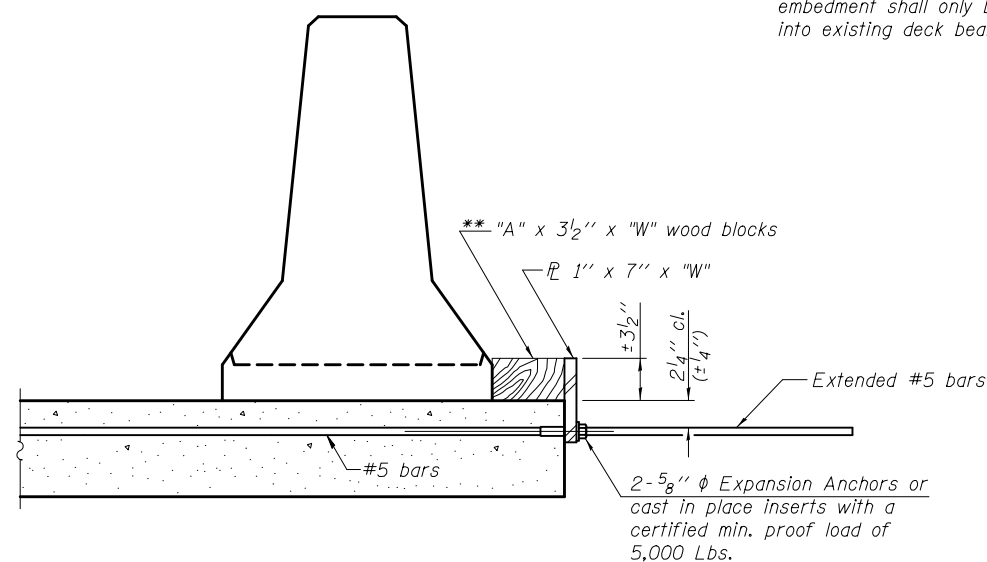
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

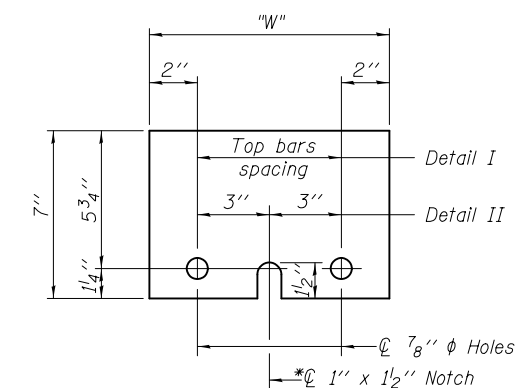
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

SDATES \$TIMES

R-27

1-12-15

DESIGNED - JOSHUA M. ODORIZZI
CHECKED - IRENE PANTOJA
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ACTING ENGINEER OF BRIDGES AND STRUCTURES

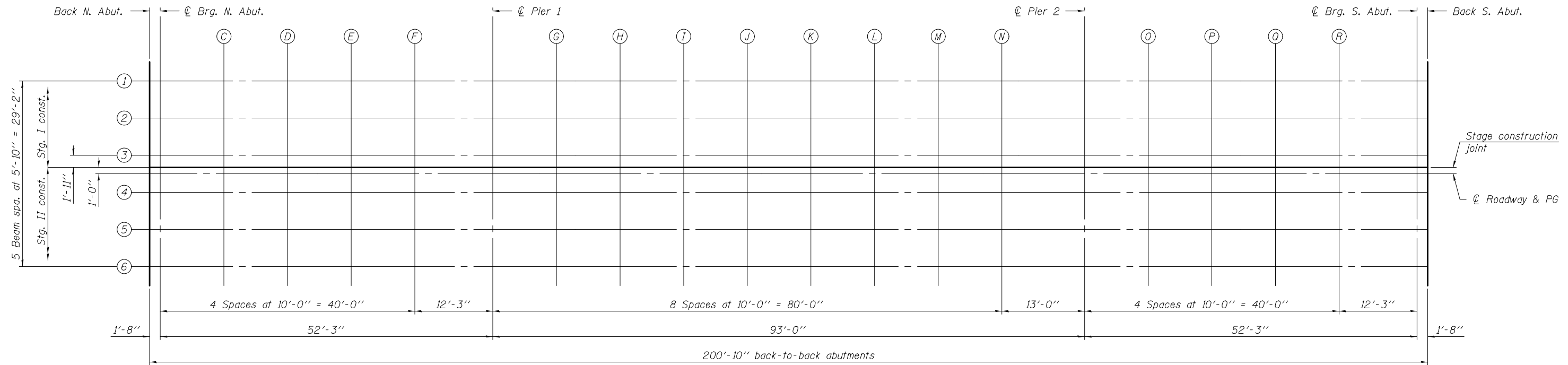
DATE - DECEMBER 7, 2015
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 083 - 0067

SHEET NO. 4 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	27
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				



PLAN



SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Joanne F. J...</i>	DATE - DECEMBER 7, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 083 - 0067	F.A.P. RTE. 881	SECTION 32B-1	COUNTY SALINE	TOTAL SHEETS 66	SHEET NO. 28	
CHECKED - IRENE PANTOJA	PASSED - <i>Carl...</i>	REVISED		SHEET NO. 5 OF 26 SHEETS	CONTRACT NO. 78083					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		ILLINOIS FED. AID PROJECT						
CHECKED - J.M.O. / I.P. / G.R.A.										

BEAM 1

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

BEAM 2

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

BEAM 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

STAGE CONSTRUCTION JOINT

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

Q ROADWAY & PG

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

BEAM 4

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Back N. Abut., Q Brg. N. Abut., Q Brg. Pier 1, Q Brg. Pier 2, Q Brg. S. Abut., and Back S. Abut.

SDATES
-TIMES

DESIGNED - JOSHUA M. ODORIZZI
CHECKED - IRENE PANTOJA
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.M.O. / I.P. / G.R.A.
EXAMINED [Signature]
PASSED [Signature]
DATE - DECEMBER 7, 2015
REVISOR [Signature]

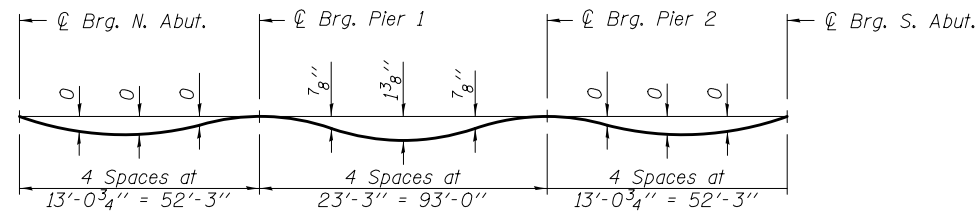
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 083 - 0067

Table with 5 columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 881, 32B-1, SALINE, 66, 29. CONTRACT NO. 78083

SHEET NO. 6 OF 26 SHEETS

ILLINOIS FED. AID PROJECT

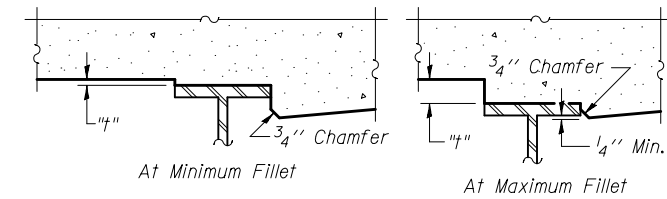


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet 6 of 26.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown below and on sheet 6 of 26, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	614+73.91	8.75	397.76	397.76
Ctr Brg. N. Abut.	614+75.58	8.75	397.76	397.76
C	614+85.58	8.75	397.75	397.75
D	614+95.58	8.75	397.74	397.74
E	615+05.58	8.75	397.73	397.72
F	615+15.58	8.75	397.72	397.71
Ctr Brg. Pier 1	615+27.83	8.75	397.71	397.71
G	615+37.83	8.75	397.70	397.73
H	615+47.83	8.75	397.69	397.75
I	615+57.83	8.75	397.68	397.76
J	615+67.83	8.75	397.67	397.77
K	615+77.83	8.75	397.66	397.77
L	615+87.83	8.75	397.65	397.74
M	615+97.83	8.75	397.64	397.71
N	616+07.83	8.75	397.63	397.67
Ctr Brg. Pier 2	616+20.83	8.75	397.61	397.61
O	616+30.83	8.75	397.60	397.60
P	616+40.83	8.75	397.59	397.59
Q	616+50.83	8.75	397.58	397.58
R	616+60.83	8.75	397.57	397.57
Ctr Brg. S. Abut.	616+73.08	8.75	397.56	397.56
Back S. Abut.	616+74.75	8.75	397.56	397.56

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	614+73.91	14.58	397.65	397.65
Ctr Brg. N. Abut.	614+75.58	14.58	397.65	397.65
C	614+85.58	14.58	397.64	397.64
D	614+95.58	14.58	397.63	397.63
E	615+05.58	14.58	397.62	397.62
F	615+15.58	14.58	397.61	397.61
Ctr Brg. Pier 1	615+27.83	14.58	397.60	397.60
G	615+37.83	14.58	397.59	397.62
H	615+47.83	14.58	397.58	397.64
I	615+57.83	14.58	397.57	397.66
J	615+67.83	14.58	397.56	397.67
K	615+77.83	14.58	397.55	397.66
L	615+87.83	14.58	397.54	397.63
M	615+97.83	14.58	397.53	397.60
N	616+07.83	14.58	397.52	397.56
Ctr Brg. Pier 2	616+20.83	14.58	397.51	397.51
O	616+30.83	14.58	397.50	397.49
P	616+40.83	14.58	397.49	397.48
Q	616+50.83	14.58	397.48	397.48
R	616+60.83	14.58	397.47	397.47
Ctr Brg. S. Abut.	616+73.08	14.58	397.46	397.46
Back S. Abut.	616+74.75	14.58	397.45	397.45

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Joanne F. J...</i>	DATE - DECEMBER 7, 2015
CHECKED - IRENE PANTOJA	PASSED - <i>Carl...</i>	REVISED
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - J.M.O. / I.P. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 083 - 0067**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	30
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

SHEET NO. 7 OF 26 SHEETS

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	-16.00	397.65
A	614+54.91	-16.00	397.64
B	614+64.91	-16.00	397.63
S. End of N. Appr. Slab	614+74.91	-16.00	397.62

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	-12.00	397.74
A	614+54.91	-12.00	397.73
B	614+64.91	-12.00	397.72
S. End of N. Appr. Slab	614+74.91	-12.00	397.71

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	-1.00	397.91
A	614+54.91	-1.00	397.90
B	614+64.91	-1.00	397.89
S. End of N. Appr. Slab	614+74.91	-1.00	397.88

☉ F.A.P. RTE. 881 & PG

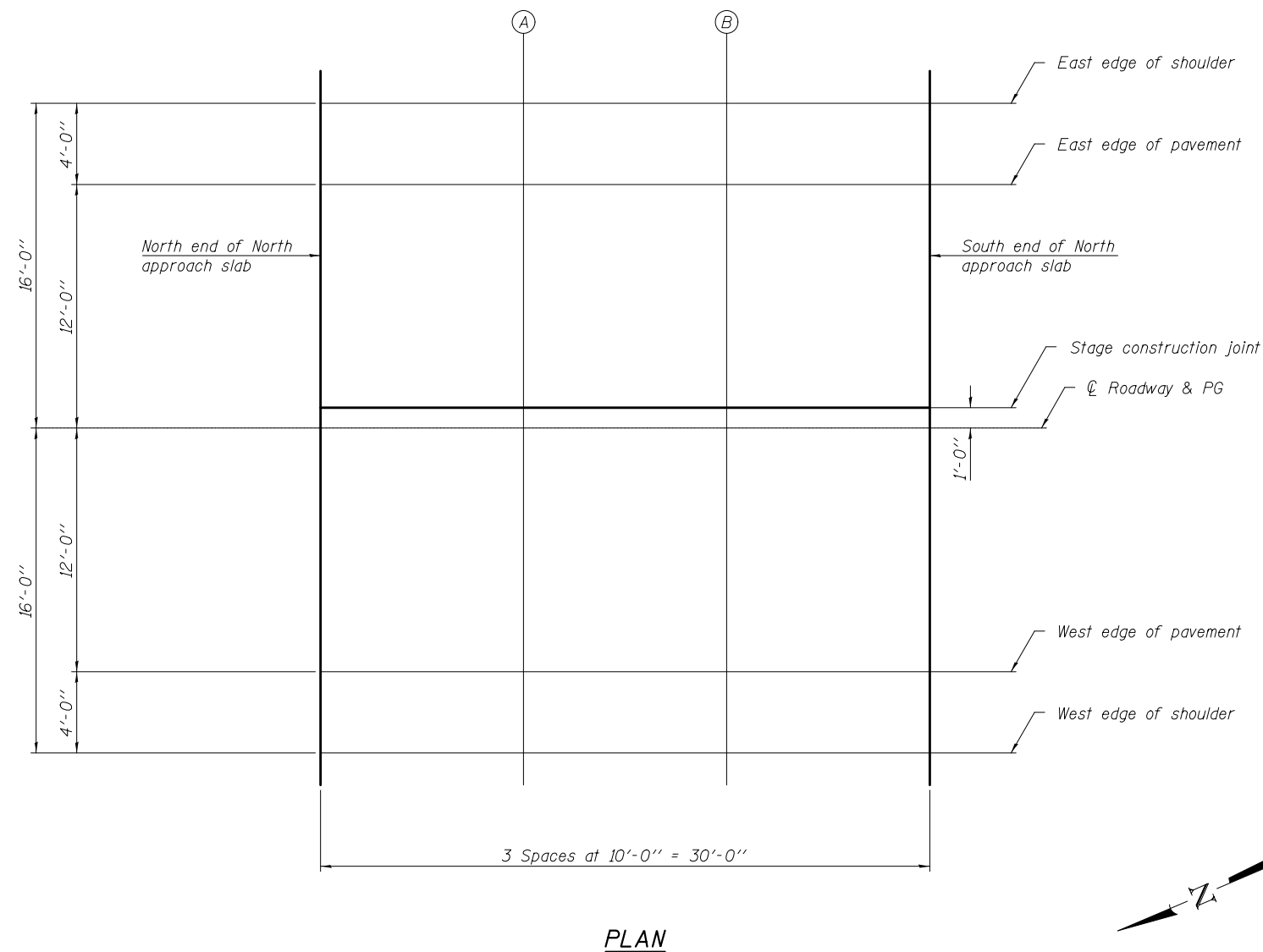
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	0.00	397.93
A	614+54.91	0.00	397.92
B	614+64.91	0.00	397.91
S. End of N. Appr. Slab	614+74.91	0.00	397.90

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	12.00	397.74
A	614+54.91	12.00	397.73
B	614+64.91	12.00	397.72
S. End of N. Appr. Slab	614+74.91	12.00	397.71

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	614+44.91	16.00	397.65
A	614+54.91	16.00	397.64
B	614+64.91	16.00	397.63
S. End of N. Appr. Slab	614+74.91	16.00	397.62



PLAN

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - DECEMBER 7, 2015
CHECKED - IRENE PANTOJA	PASSED - <i>Carl [Signature]</i>	REVISIED -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISIED -
CHECKED - J.M.O. / I.P. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 083 - 0067**

SHEET NO. 8 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	31
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	-16.00	397.43
S	616+83.75	-16.00	397.42
T	616+93.75	-16.00	397.41
S. End of S. Appr. Slab	617+03.75	-16.00	397.40

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	-12.00	397.51
S	616+83.75	-12.00	397.50
T	616+93.75	-12.00	397.49
S. End of S. Appr. Slab	617+03.75	-12.00	397.48

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	-1.00	397.68
S	616+83.75	-1.00	397.67
T	616+93.75	-1.00	397.66
S. End of S. Appr. Slab	617+03.75	-1.00	397.65

☉ F.A.P. RTE. 881 & PG

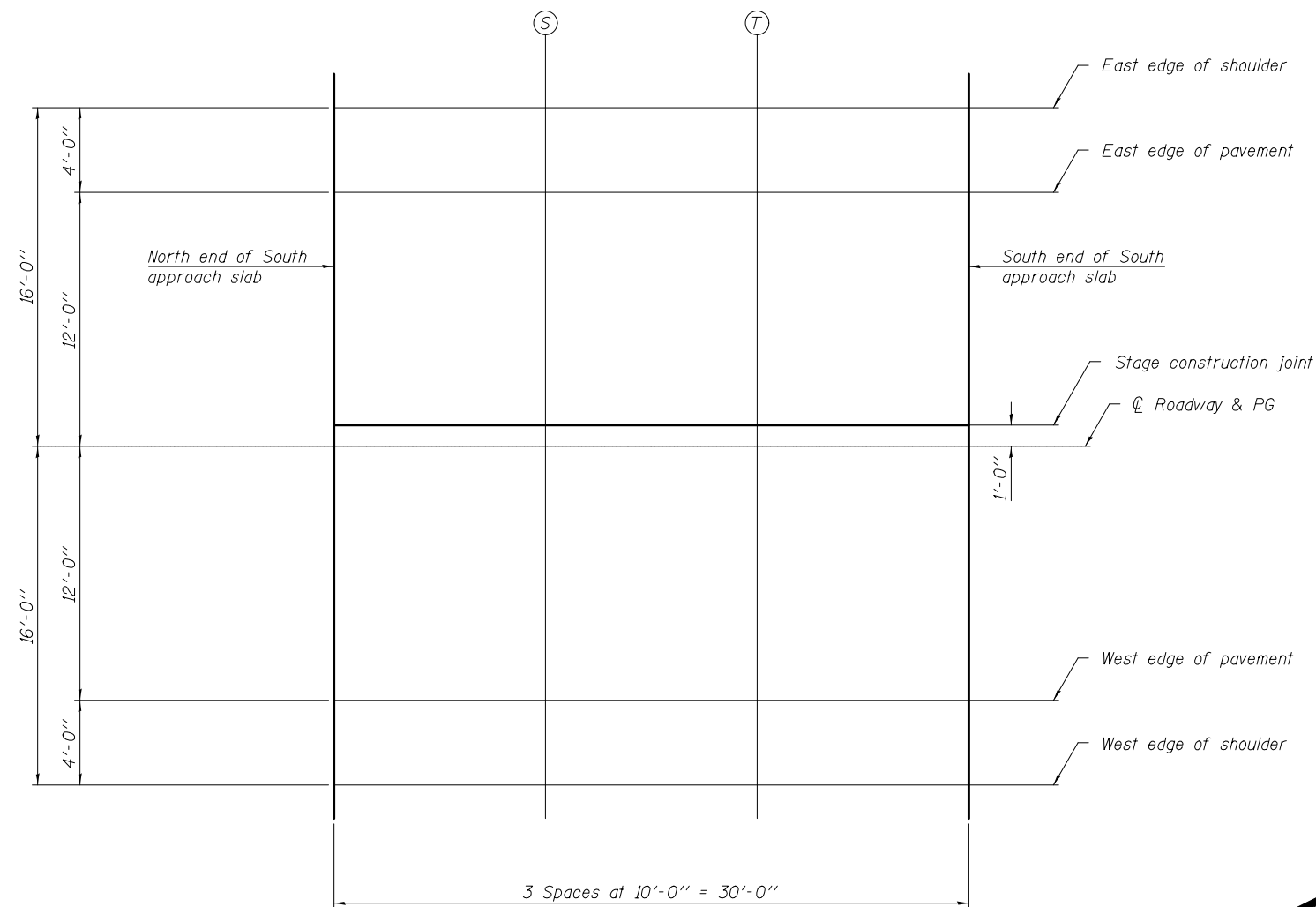
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	0.00	397.70
S	616+83.75	0.00	397.69
T	616+93.75	0.00	397.68
S. End of S. Appr. Slab	617+03.75	0.00	397.67

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	12.00	397.51
S	616+83.75	12.00	397.50
T	616+93.75	12.00	397.49
S. End of S. Appr. Slab	617+03.75	12.00	397.48

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	616+73.75	16.00	397.43
S	616+83.75	16.00	397.42
T	616+93.75	16.00	397.41
S. End of S. Appr. Slab	617+03.75	16.00	397.40



PLAN

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED *Joanne F. J. [Signature]*
 PASSED *Carl [Signature]*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

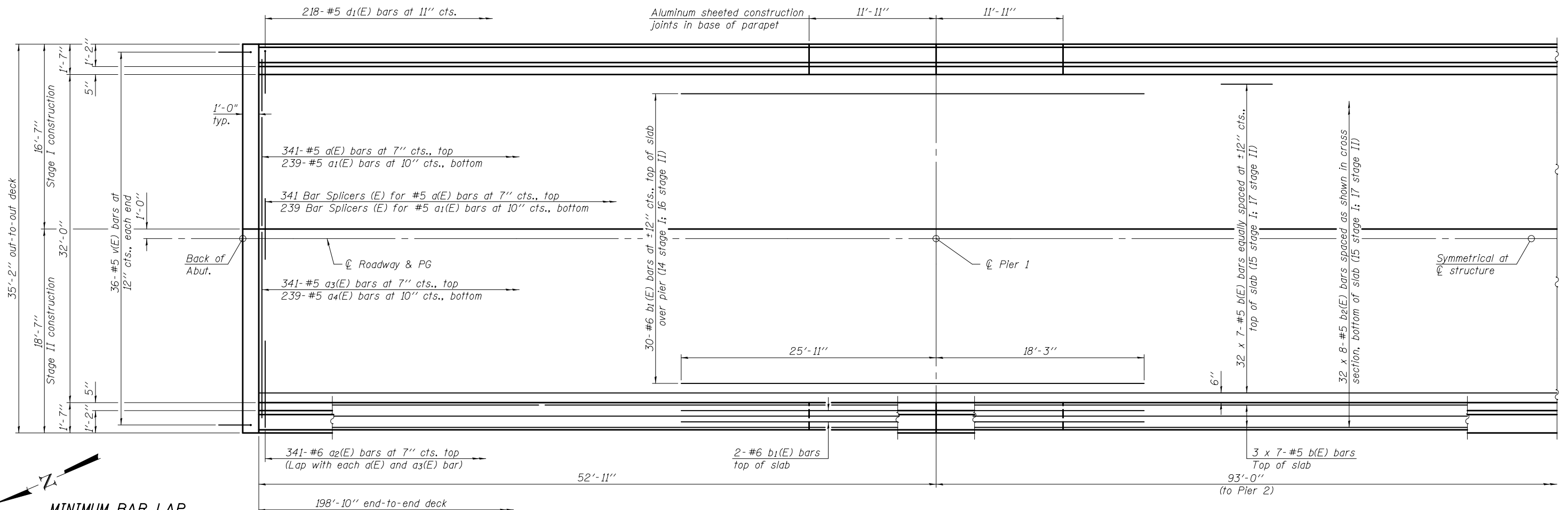
DATE - DECEMBER 7, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 083 - 0067**

SHEET NO. 9 OF 26 SHEETS

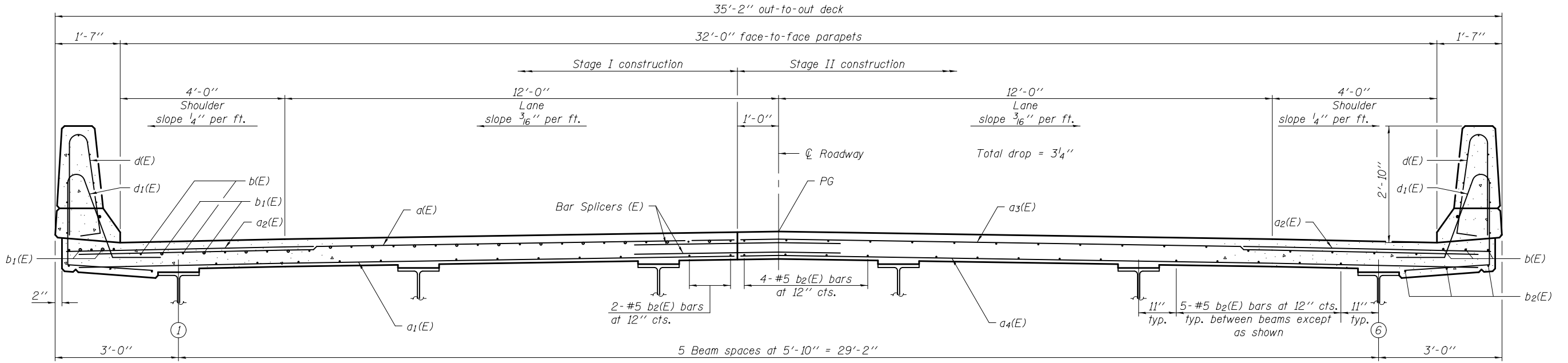
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	32
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP
#5 bar = 3'-6"

PARTIAL PLAN

Notes:
See Sheet 11 of 26 for superstructure details and Bill of Material.
Bars indicated thus 32 x 7-#5 etc. indicates 32 lines of bars with 7 lengths per line.
See Sheet 11 of 26 for parapet reinforcement.



CROSS SECTION
(Looking South)

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - DECEMBER 7, 2015
CHECKED - IRENE PANTOJA	PASSED - <i>Carl [Signature]</i>	REVISED
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - J.M.O. / I.P. / G.R.A.		

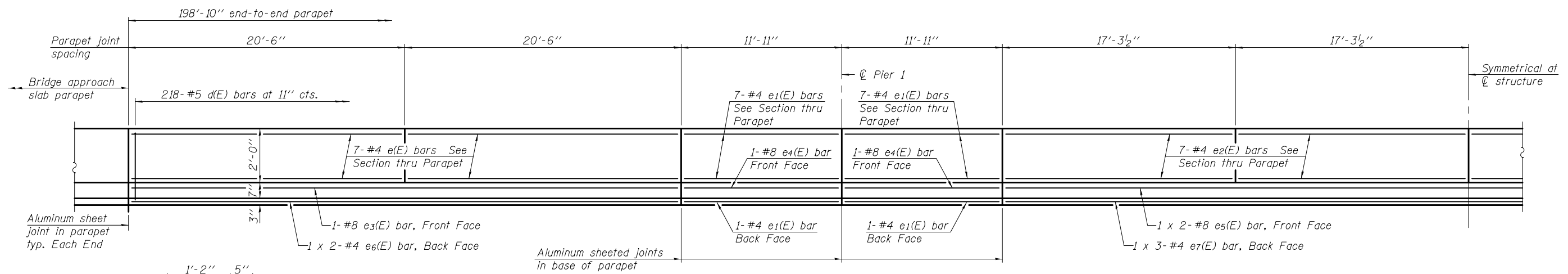
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 083 - 0067

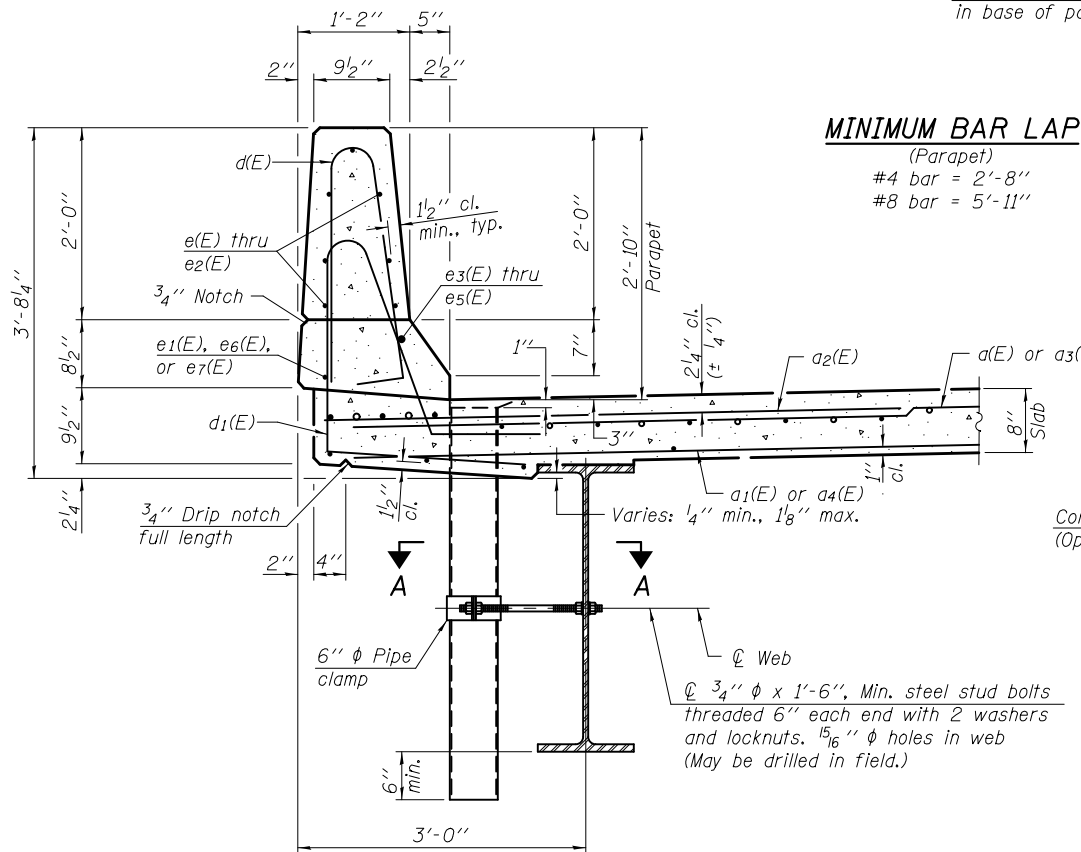
SHEET NO. 10 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	33
CONTRACT NO. 78083				

ILLINOIS FED. AID PROJECT

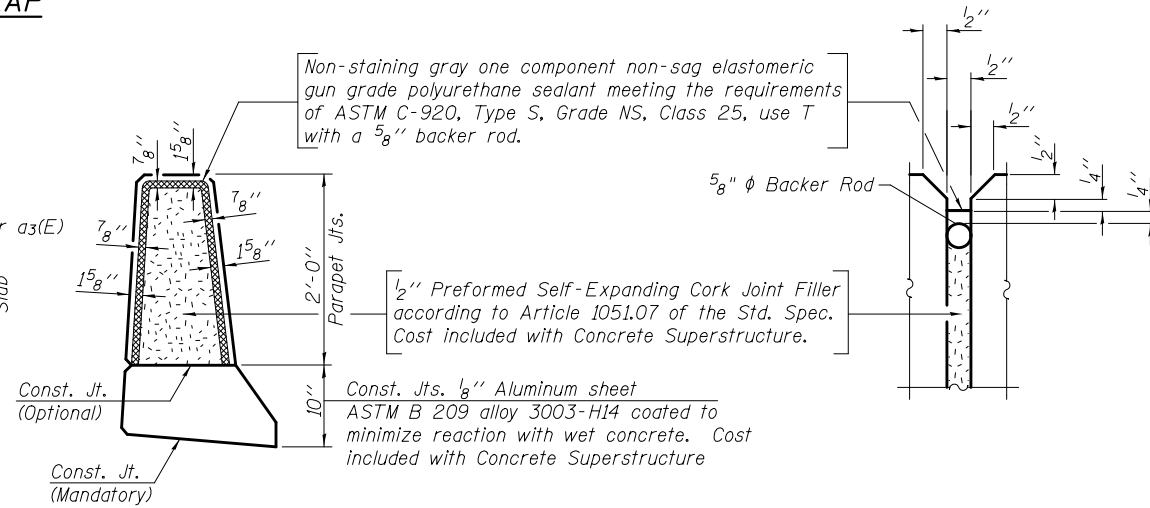


INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

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



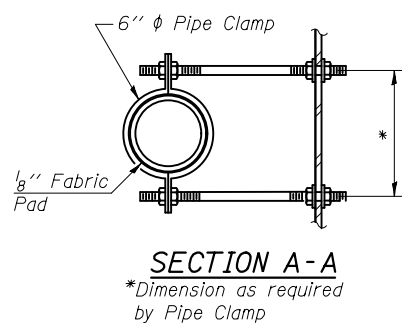
PARAPET JOINT DETAILS

Notes:
Drains shall be located clear of all diaphragms.
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

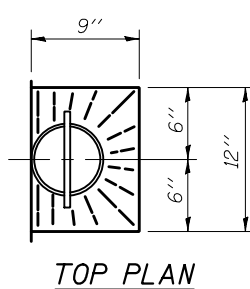
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	341	#5	16'-1"	—
a1(E)	239	#5	15'-3"	—
a2(E)	682	#6	6'-6"	—
a3(E)	341	#5	18'-1"	—
a4(E)	239	#5	17'-3"	—
b(E)	266	#5	31'-5"	—
b1(E)	68	#6	44'-2"	—
b2(E)	256	#5	27'-11"	—
d(E)	436	#5	5'-7"	⌒
d1(E)	436	#5	7'-9"	⌒
e(E)	56	#4	20'-3"	—
e1(E)	64	#4	11'-8"	—
e2(E)	56	#4	17'-0"	—
e3(E)	4	#8	40'-9"	—
e4(E)	8	#8	11'-8"	—
e5(E)	4	#8	37'-5"	—
e6(E)	8	#4	21'-9"	—
e7(E)	6	#4	24'-10"	—
m(E)	8	#6	16'-2"	—
m1(E)	8	#6	18'-2"	—
m2(E)	24	#6	5'-6"	—
m3(E)	12	#6	2'-6"	—
m4(E)	36	#5	4'-0"	—
s(E)	64	#5	7'-10"	⌒
s1(E)	64	#5	10'-2"	⌒
v(E)	72	#5	3'-1"	⌒
Reinforcement Bars, Epoxy Coated		Pound	59,090	
Concrete Superstructure		Cu. Yds.	247.6	

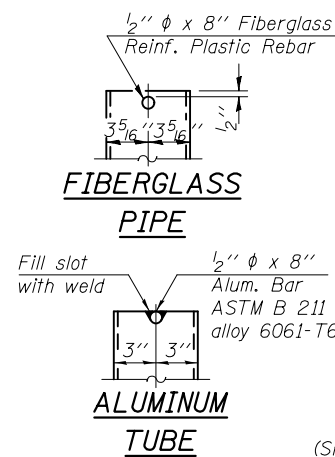
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



SECTION A-A
*Dimension as required by Pipe Clamp

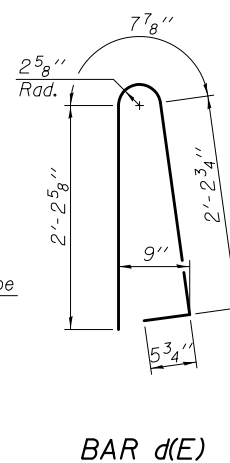


TOP PLAN

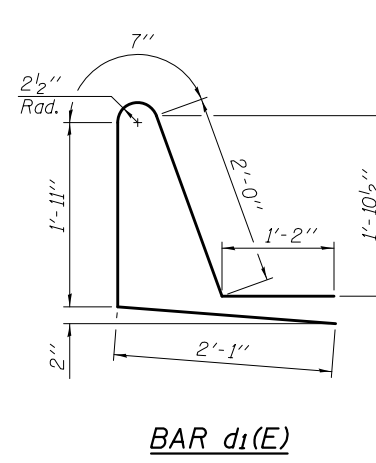


ALUMINUM TUBE

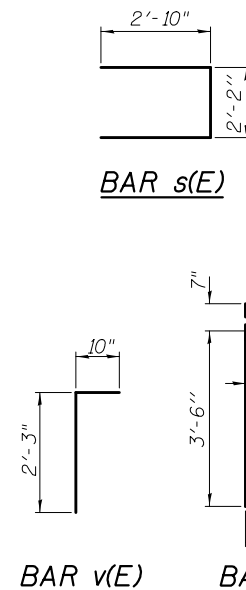
TOP PLAN
(Showing Aluminum Tube)



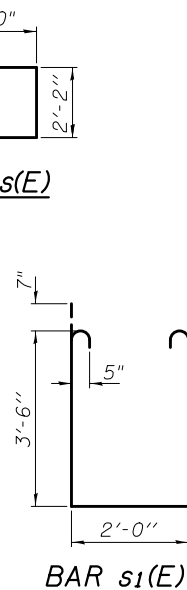
BAR d(E)



BAR d1(E)



BAR v(E)



BAR s1(E)

SDATES \$TIMES
SI-D2-0

6-8-15

DESIGNED - JOSHUA M. ODORIZZI
CHECKED - IRENE PANTOJA
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015
REVISED
REVISED

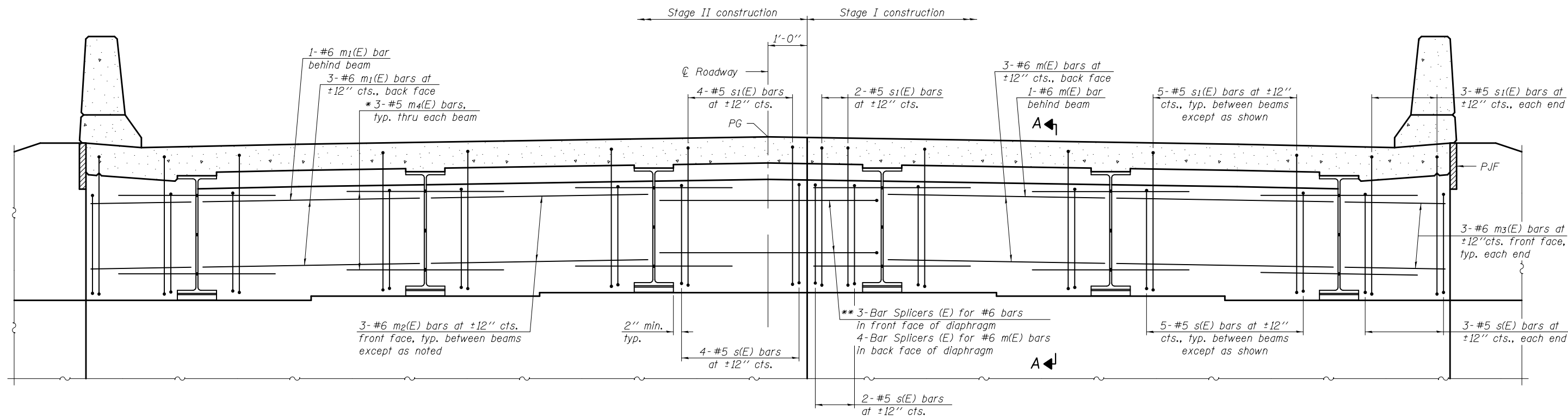
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 083 - 0067

SHEET NO. 11 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	34
CONTRACT NO. 78083				

ILLINOIS FED. AID PROJECT



DIAPHRAGM ELEVATION AT ABUTMENT
(North abutment shown, South abutment similar)

* Secure bars such that they remain centered and level during pouring of the concrete.

** See sheet 24 of 26 for detail of bar splicers in front face of diaphragms.

Notes:

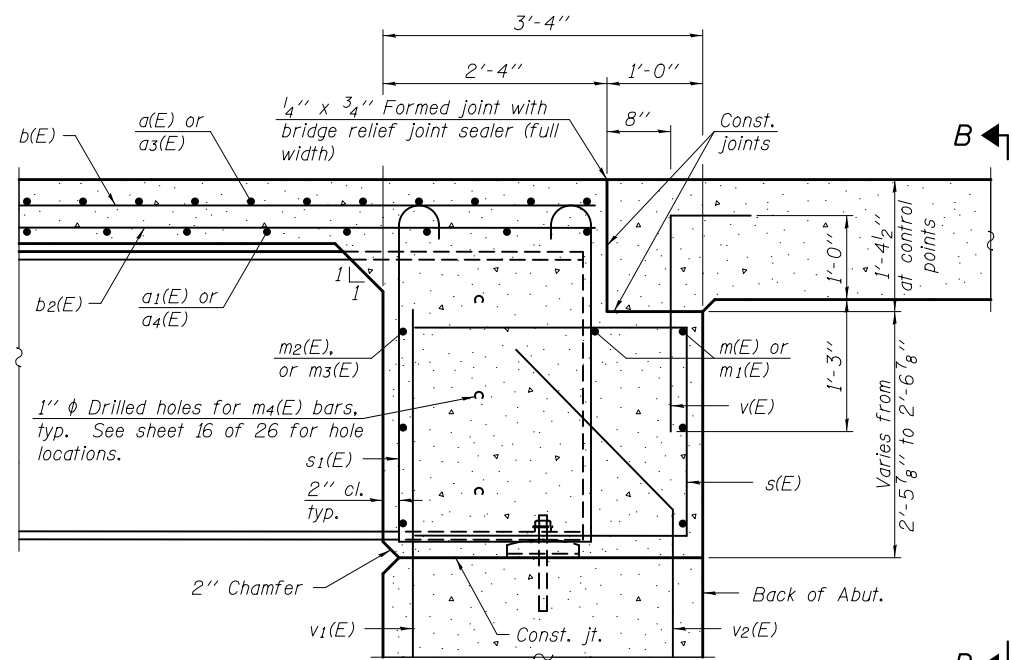
Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 26.

Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 26.

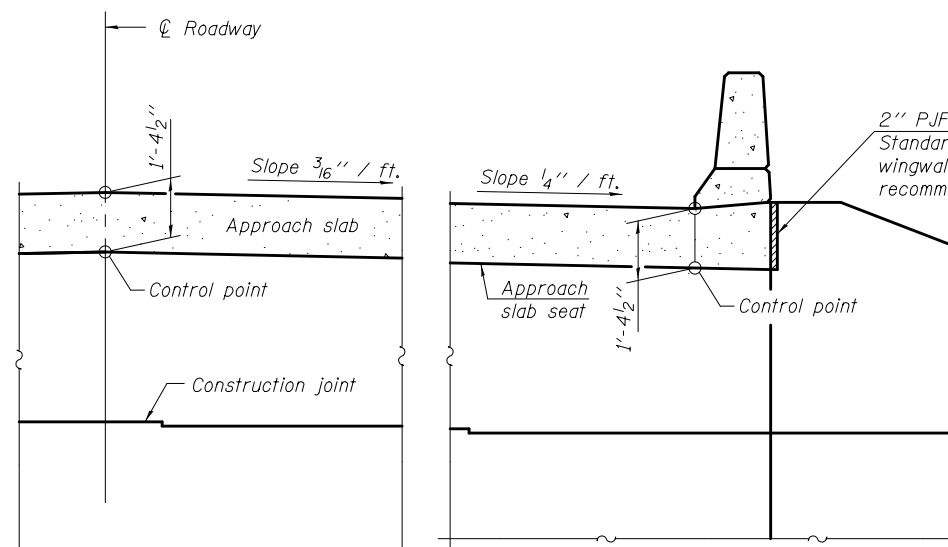
For details of bars s(E), s1(E) and v(E) see sheet 11 of 26.

The approach slab seat shall have a constant slope determined from the control points shown.

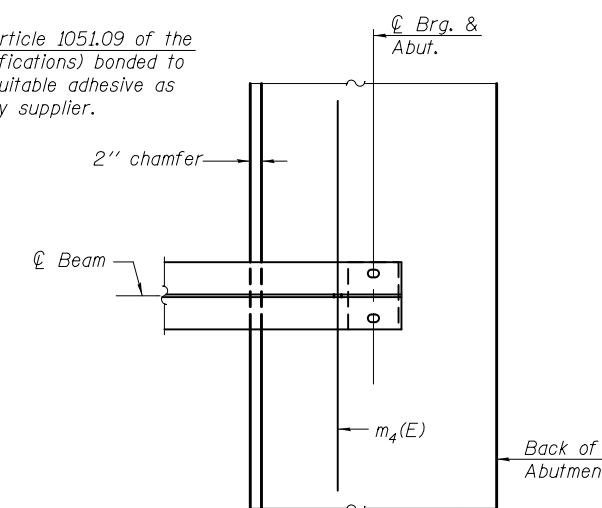
For bearing details see sheet 16 of 26.



SECTION A-A



VIEW B-B



PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
CHECKED - IRENE PANTOJA
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
PASSED

Jaime F. J. [Signature]
ENGINEER OF BRIDGE DESIGN
Carl [Signature]
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015

REVISED
REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

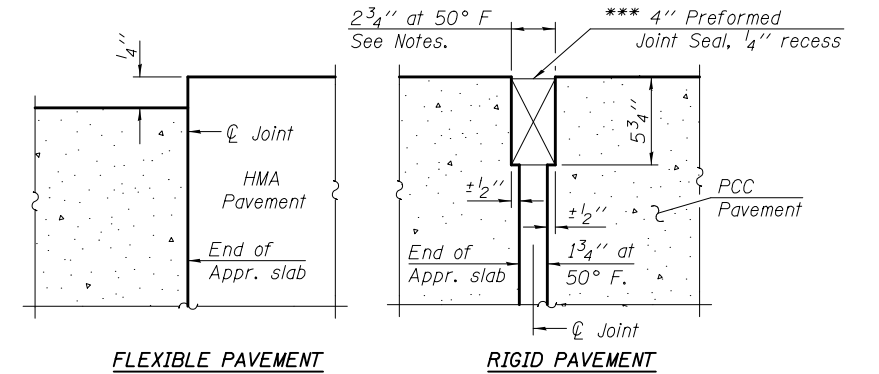
**DIAPHRAGM DETAILS
STRUCTURE NO. 083 - 0067**

SHEET NO. 12 OF 26 SHEETS

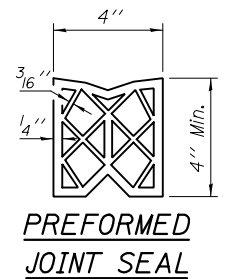
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	35
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 14 of 26 for Sections C-C & D-D and View E-E.
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1/2" for installation purposes.

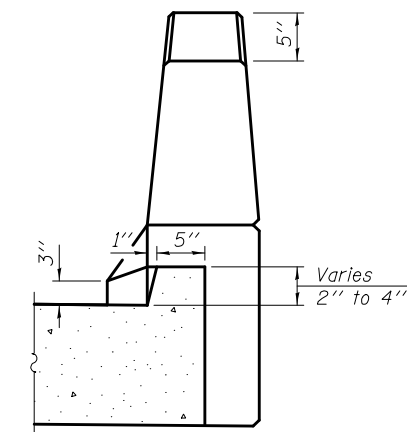
*** Cost included with Concrete Superstructure.



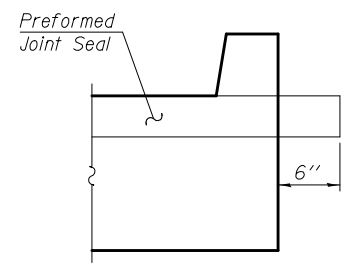
DETAIL A



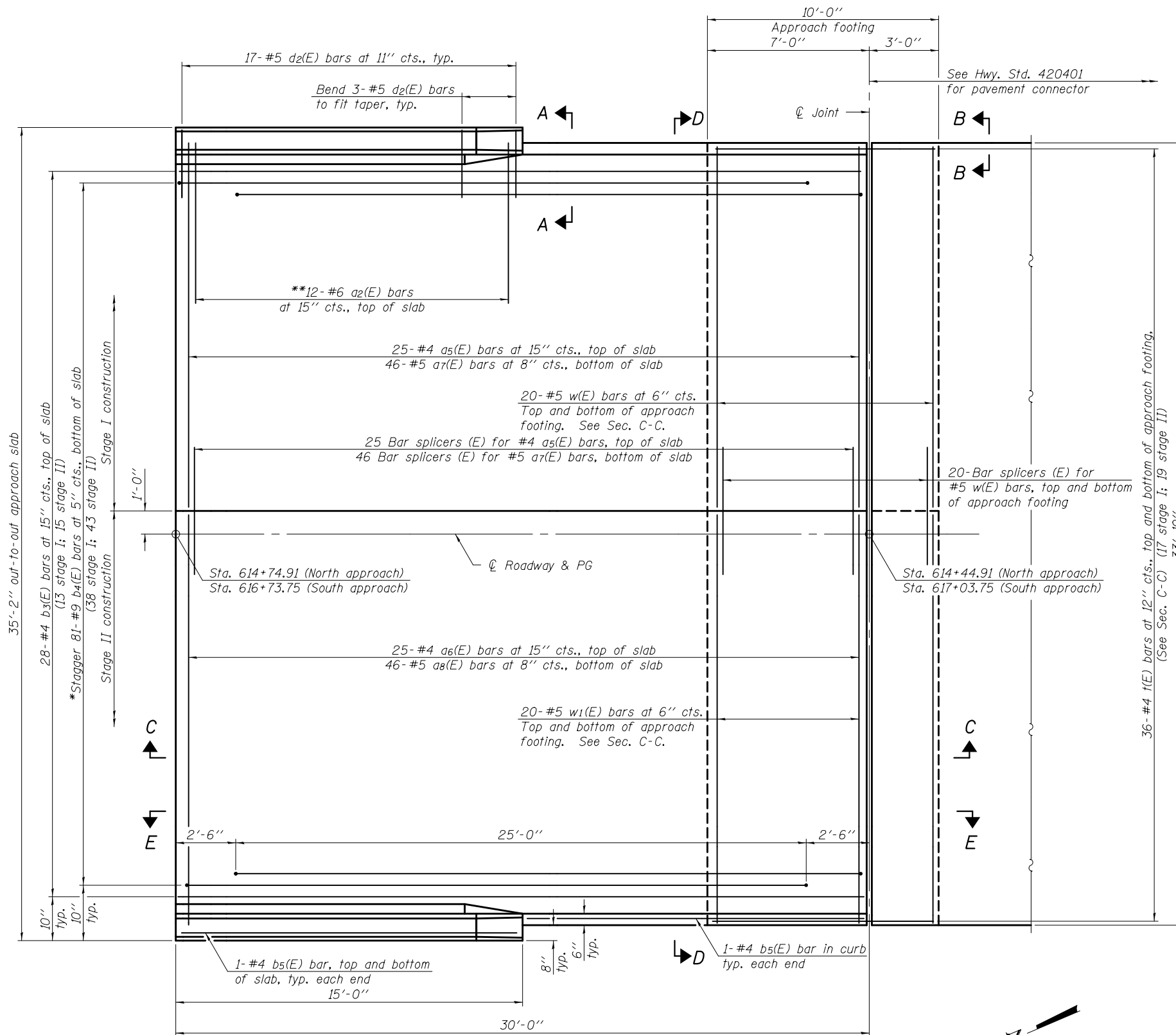
PREFORMED JOINT SEAL



VIEW A-A



VIEW B-B



PLAN

(South approach shown; North approach similar by 180° rotation)

* Tilt #9 b4(E) bars as required to maintain clearance.
 ** Space between a5(E) bars, typ. each parapet.

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Joanne F. J...</i>	DATE - DECEMBER 7, 2015
CHECKED - IRENE PANTOJA	PASSED - <i>Carl...</i>	REVISED
DRAWN - MICHAEL B. MOSSMAN		REVISED
CHECKED - J.M.O. / I.P. / G.R.A.		

ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

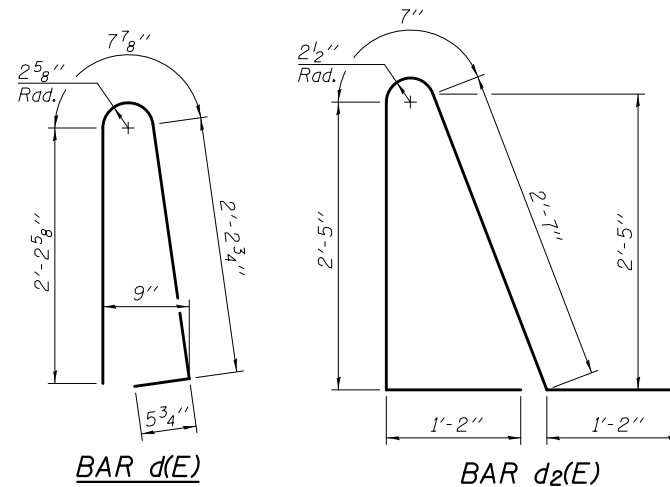
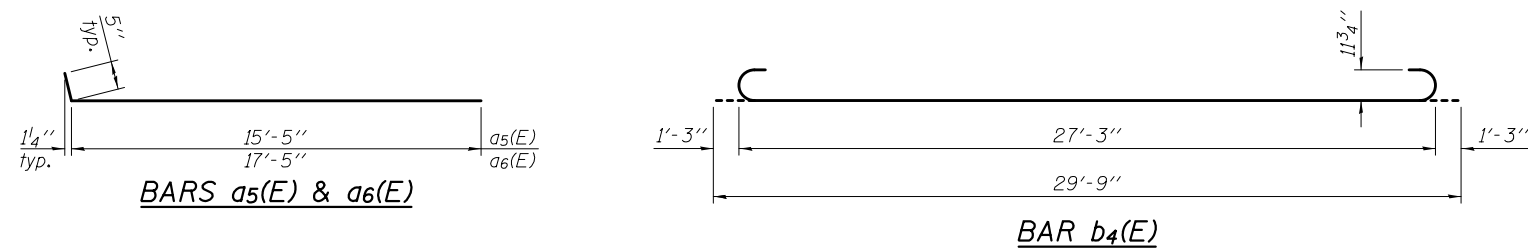
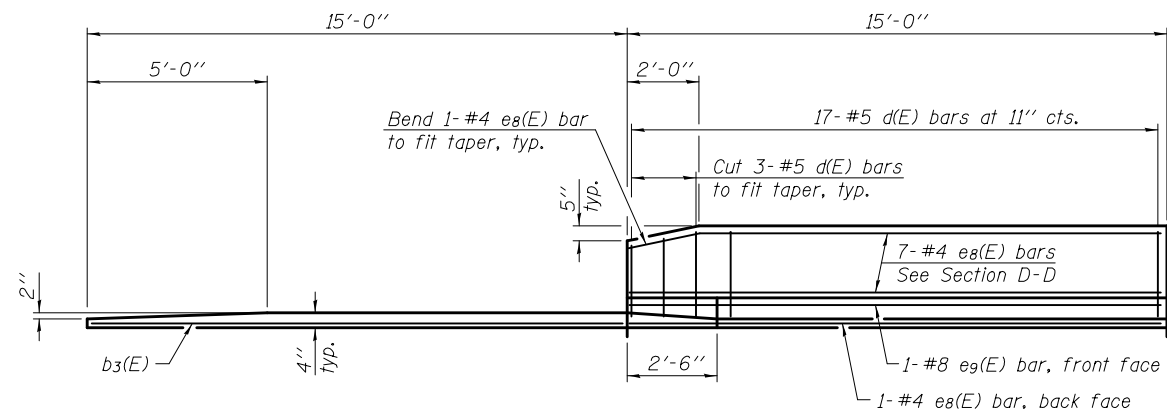
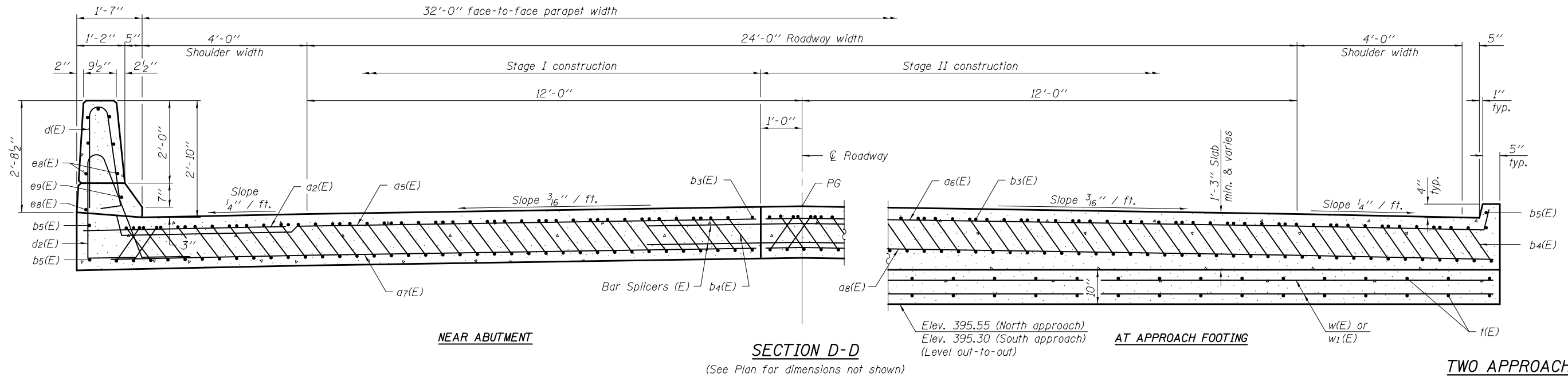
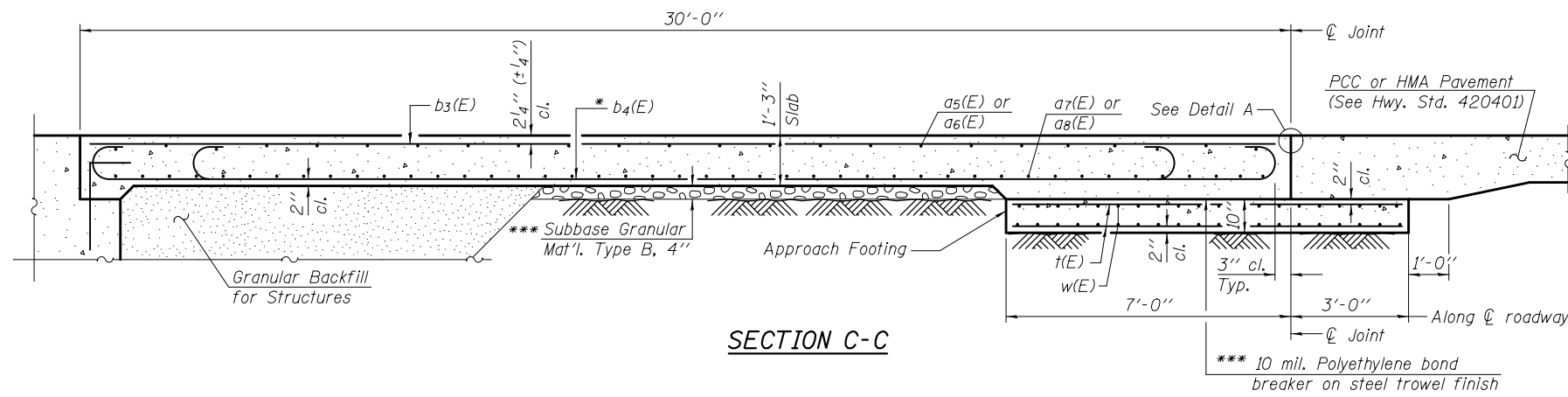
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 083 - 0067

SHEET NO. 13 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	36
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)

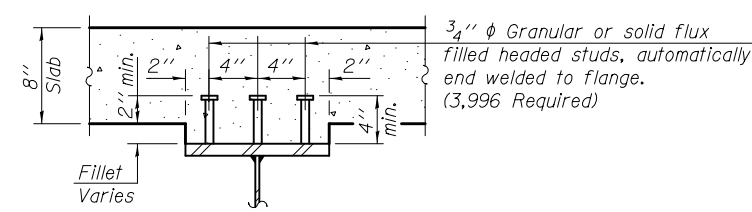
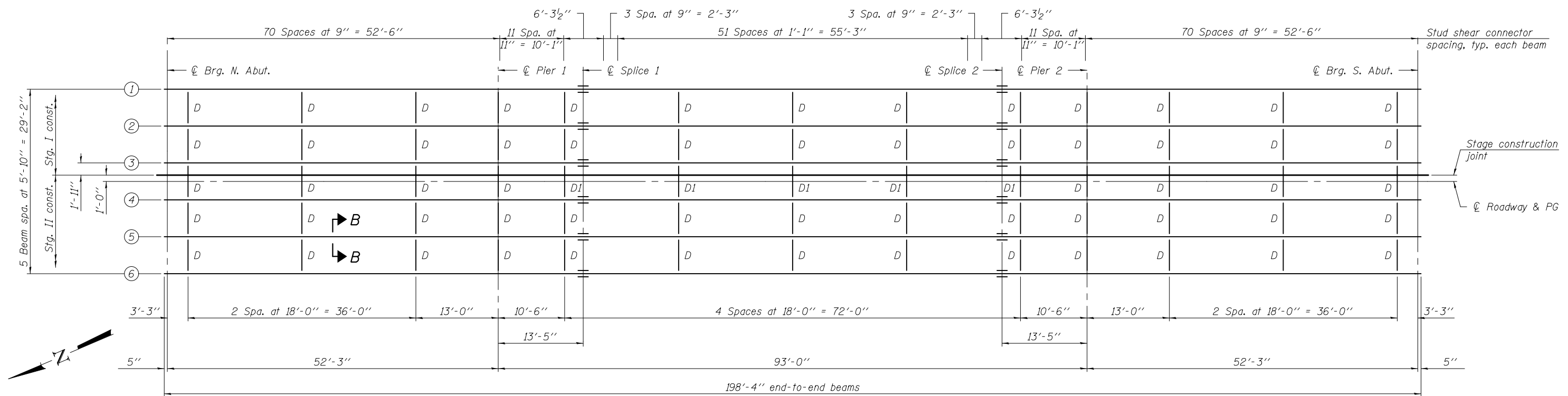
Notes:
 See sheet 13 of 26 for Detail A.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 24 of 26.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 26.
 For additional parapet details, see sheet 11 of 26.



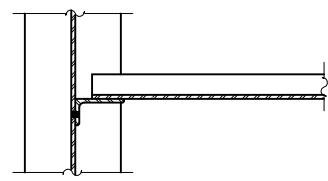
**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a2(E)	48	#6	6'-6"	—	
a5(E)	50	#4	15'-10"	—	
a6(E)	50	#4	17'-10"	—	
a7(E)	92	#5	15'-7"	—	
a8(E)	92	#5	17'-7"	—	
b3(E)	56	#4	29'-8"	—	
b4(E)	162	#9	29'-9"	—	
b5(E)	12	#4	14'-8"	—	
d(E)	68	#5	5'-7"	—	
d2(E)	68	#5	7'-11"	—	
e8(E)	32	#4	14'-8"	—	
e9(E)	4	#8	14'-8"	—	
t(E)	144	#4	9'-8"	—	
w(E)	80	#5	15'-7"	—	
w1(E)	80	#5	17'-7"	—	
Concrete Superstructure				Cu. Yd.	105.7
Concrete Structures				Cu. Yd.	20.9
Reinforcement Bars, Epoxy Coated				Pound	27,510

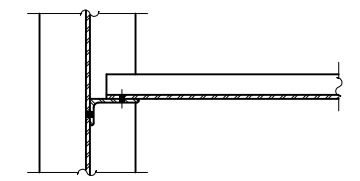
SDATES \$TIMES



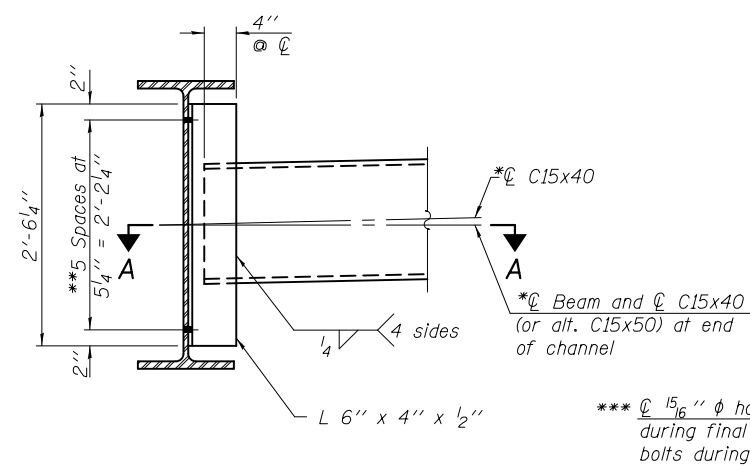
SECTION B-B
(Typical at each beam)



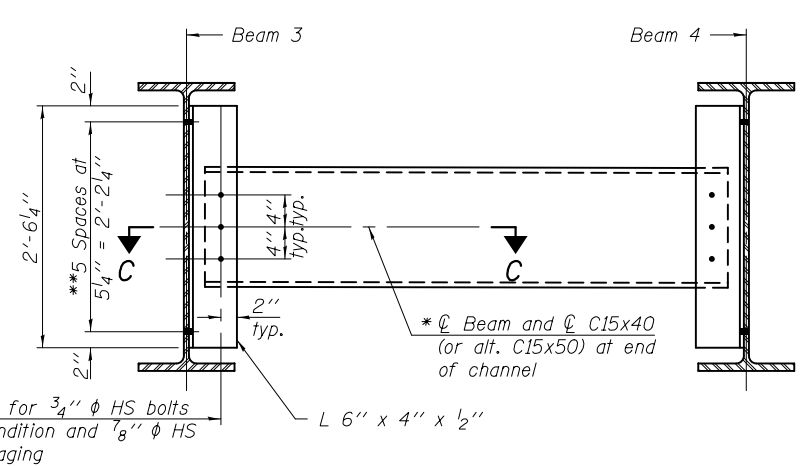
SECTION A-A



SECTION C-C



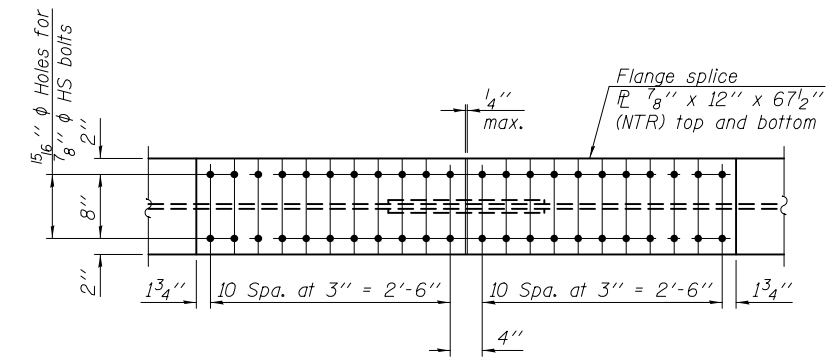
DIAPHRAGM D
(60 Required)



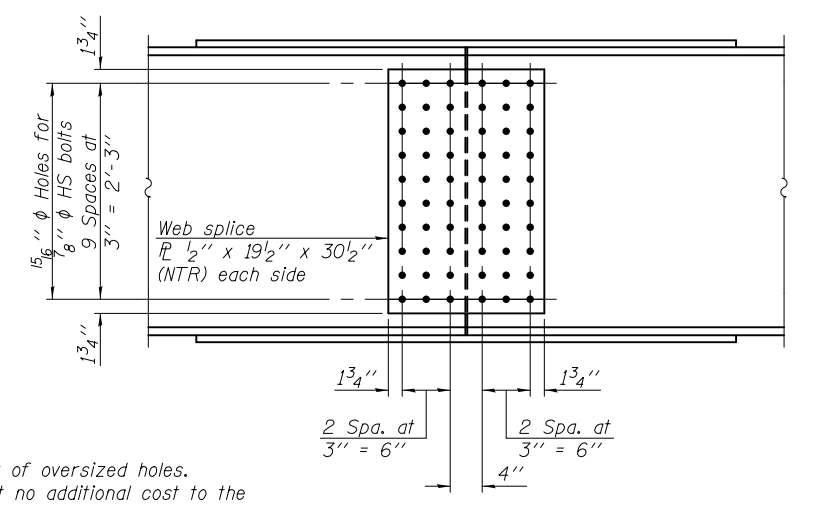
DIAPHRAGM D1
(5 Required)

PLAN
(All beams are W36x160, AASHTO M270, Grade 50, NTR)

- * Alternate C15x50 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
- ** 3/4" φ HS bolts, 1 5/16" φ holes
- *** Install only one 7/8" φ HS bolt in center hole at each end of Diaphragm D1. The bolts shall be finger-tightened prior to deck pour to permit rotation of Diaphragm D1. Install 3/4" HS bolts and fully tighten after stage II deck pour is complete.



PLAN



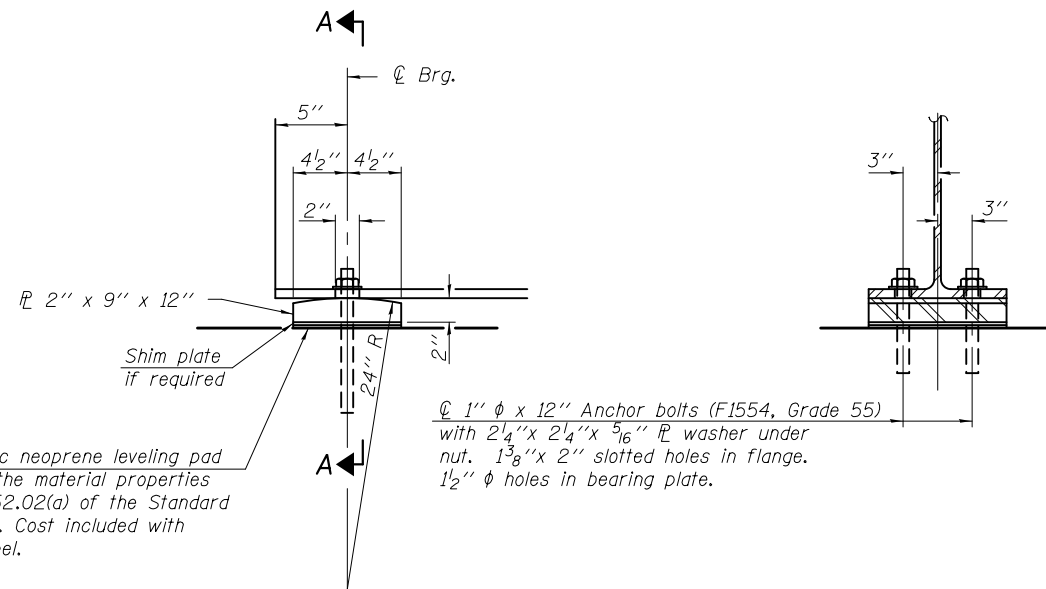
ELEVATION

SPLICE DETAIL
(12 Required)

Notes:
Two hardened washers required for each set of oversized holes. The alternate, if utilized, shall be provided at no additional cost to the Department.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
All splice plates shall be AASHTO M 270, Grade 50.

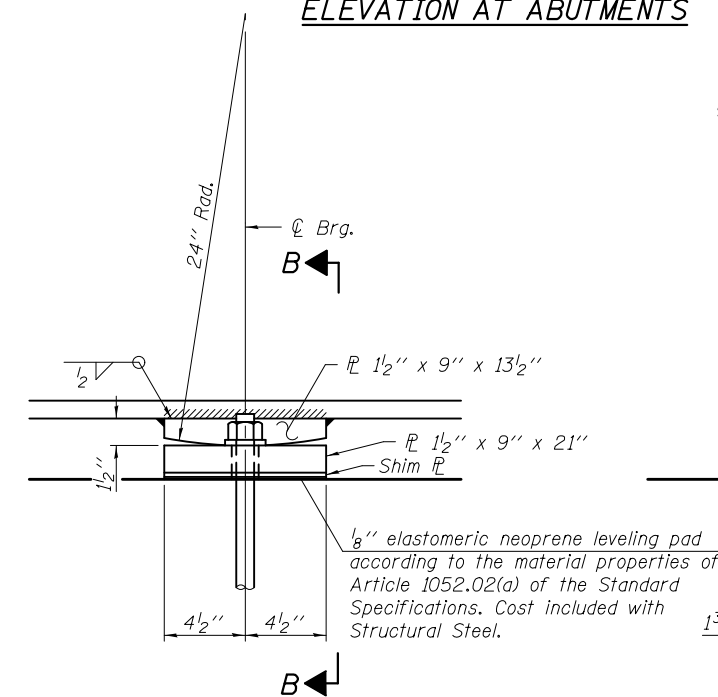
SDATES STIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J...</i>	DATE - DECEMBER 7, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL STRUCTURE NO. 083 - 0067	F.A.P. RTE. 881	SECTION 32B-1	COUNTY SALINE	TOTAL SHEETS 66	SHEET NO. 38	
CHECKED - IRENE PANTOJA	PASSED - <i>Carl...</i>	REVISOR			CONTRACT NO. 78083					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			ILLINOIS FED. AID PROJECT					
CHECKED - J.M.O. / I.P. / G.R.A.					SHEET NO. 15 OF 26 SHEETS					



ELEVATION AT ABUTMENTS

SECTION A-A



ELEVATION AT PIERS

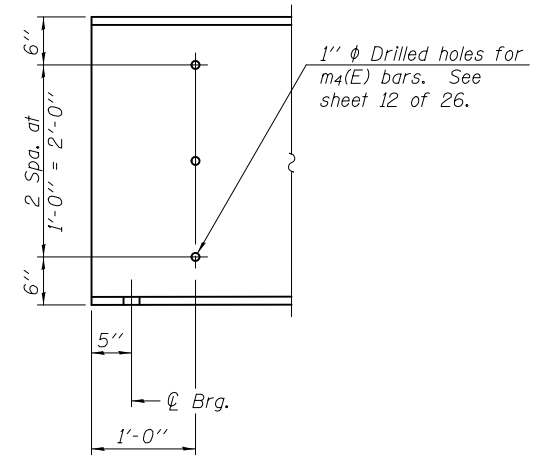
SECTION B-B

INTERIOR BEAM MOMENT TABLE

	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Span 2
I_s	9,750	9,750	9,750
$I_c(n)$	23,724	23,724	23,724
$I_c(3n)$	17,219	17,219	17,219
$I_c(cr)$	-	12,096	-
S_s	542	542	542
$S_c(n)$	768	4,648	768
$S_c(3n)$	690	1,559	690
$S_c(cr)$	-	784	-
DC1	0.790	0.790	0.790
M _{DC1}	63.6	487.1	365.9
DC2	0.150	0.150	0.150
M _{DC2}	12.1	92.6	69.6
DW	0.296	0.296	0.296
M _{DW}	23.9	182.7	137.3
M \ddot{L} + IM	548.1	797.3	851.8
M _u (Strength I)	1,090	2,394	2,241
$\phi_r M_n$	3,812	3,128	3,812
f_s DC1	1.41	10.78	8.10
f_s DC2	0.21	1.42	1.21
f_s DW	0.42	2.80	2.39
f_s (\ddot{L} +IM)	8.56	12.21	13.31
f_s (Service II)	13.17	30.87	29.00
0.95R _h F _{yf}	47.50	47.50	47.50
f_s (Total)(Strength I)	-	40.82	-
$\phi_r F_n$	-	-	-
V _f	14.80	26.2	17.40

INTERIOR BEAM REACTION TABLE

	Abut.	Piers
R _{DC1}	11.2	65.9
R _{DC2}	2.1	12.7
R _{DW}	4.2	24.7
R \ddot{L} + IM	60.1	101.7
R _{Total}	77.6	205.0



END OF BEAM ELEVATION

(Typical at each end of each beam)

BILL OF MATERIAL

Item	Unit	Quantity
Anchor Bolts, 1"	Each	48

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

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

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

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

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

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

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

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

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

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

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

M_u (Strength I): Factored design moment (kip-ft.).

$1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ddot{L}} + IM$

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

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

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (\ddot{L} +IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

$M_{\ddot{L}} + IM / S_c(n)$ or $M_{\ddot{L}} + IM / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).

$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (\ddot{L} + IM)$

0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

$1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (\ddot{L} + IM)$

$\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

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

***TOP OF BEAM ELEVATIONS**

Location	℄ Brg. N. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Splice 2	℄ Brg. Pier 2	℄ Brg. S. Abut.
Beam 1	396.94	396.84	396.81	396.74	396.74	396.75
Beam 2	397.05	396.94	396.91	396.85	396.85	396.85
Beam 3	397.14	397.03	397.00	396.94	396.94	396.94
Beam 4	397.14	397.03	397.00	396.94	396.94	396.94
Beam 5	397.05	396.94	396.91	396.85	396.85	396.85
Beam 6	396.94	397.84	396.81	396.74	396.74	396.75

* For fabrication use only.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

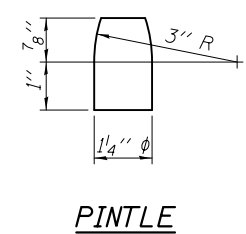
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

All bearing plates and pintles shall be AASHTO M270 Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor will not be allowed.



PINTLE

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

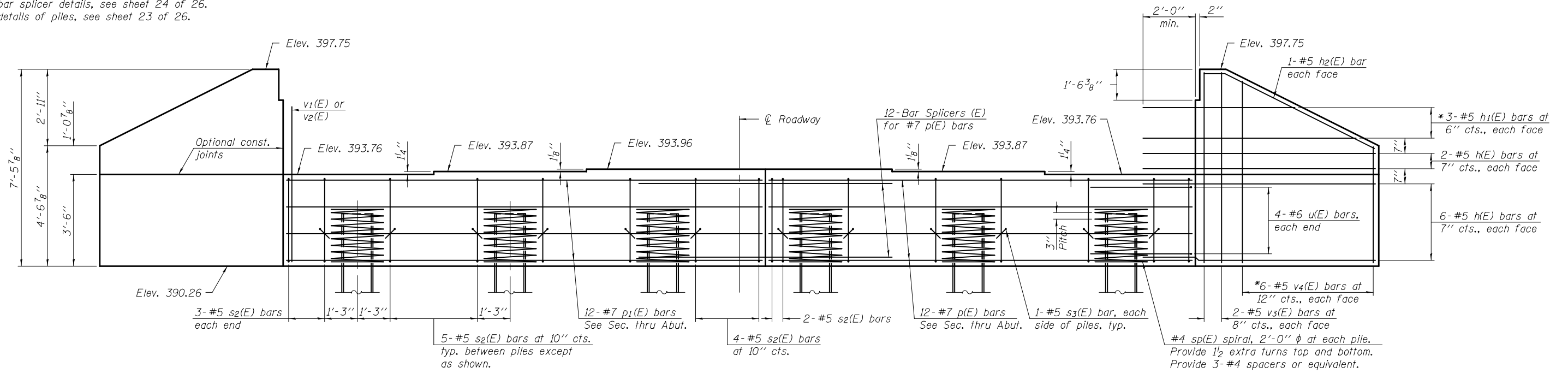
DATE - DECEMBER 7, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS
 STRUCTURE NO. 083 - 0067**

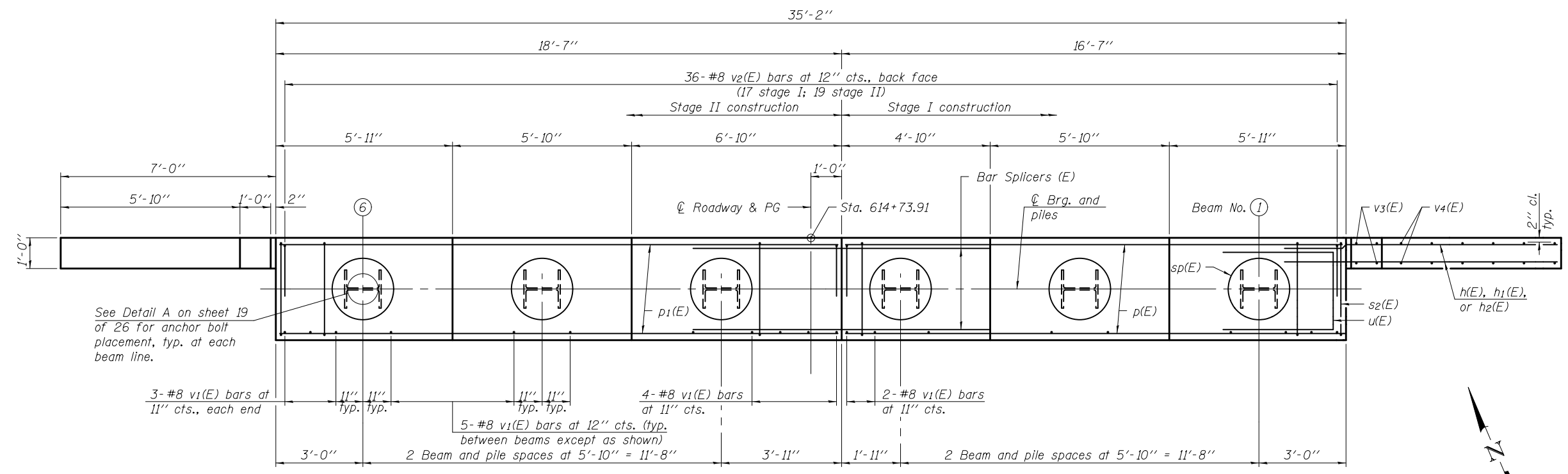
F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 881 32B-1 SALINE 66 39
 CONTRACT NO. 78083
 ILLINOIS FED. AID PROJECT

Notes:
 Pour steps monolithically with cap.
 See sheet 19 of 26 for additional abutment details and Bill of Material.
 For bar splicer details, see sheet 24 of 26.
 For details of piles, see sheet 23 of 26.



ELEVATION

* See field cutting diagram on sheet 19 of 26.



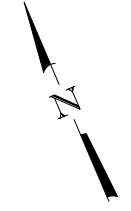
PLAN

PILE DATA

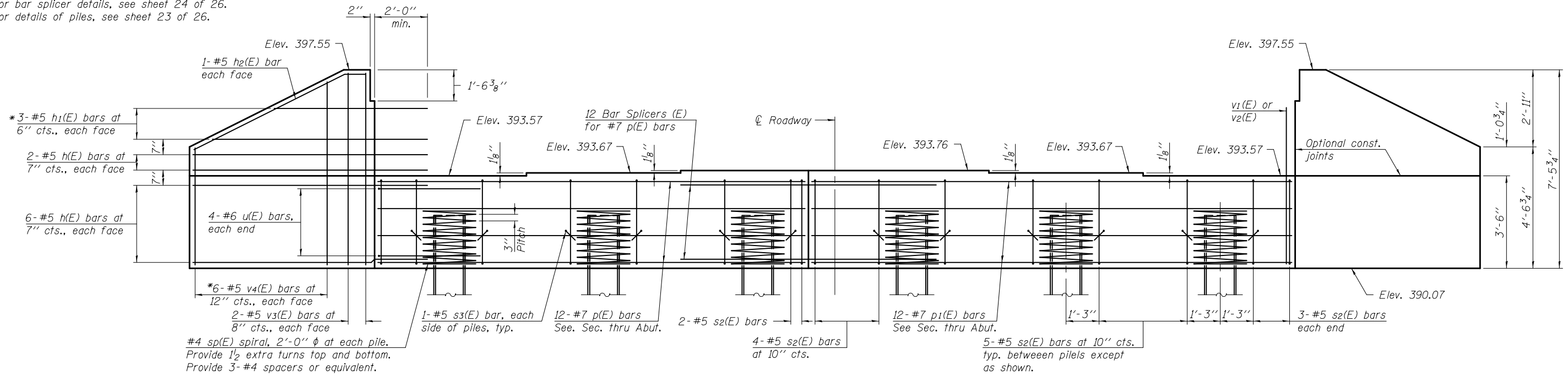
Type: Steel piles HP 14x17
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 511 kips
 Est. Length: 29'
 No. Production Piles: 6
 No. Test Piles: None

SDATES \$TIMES

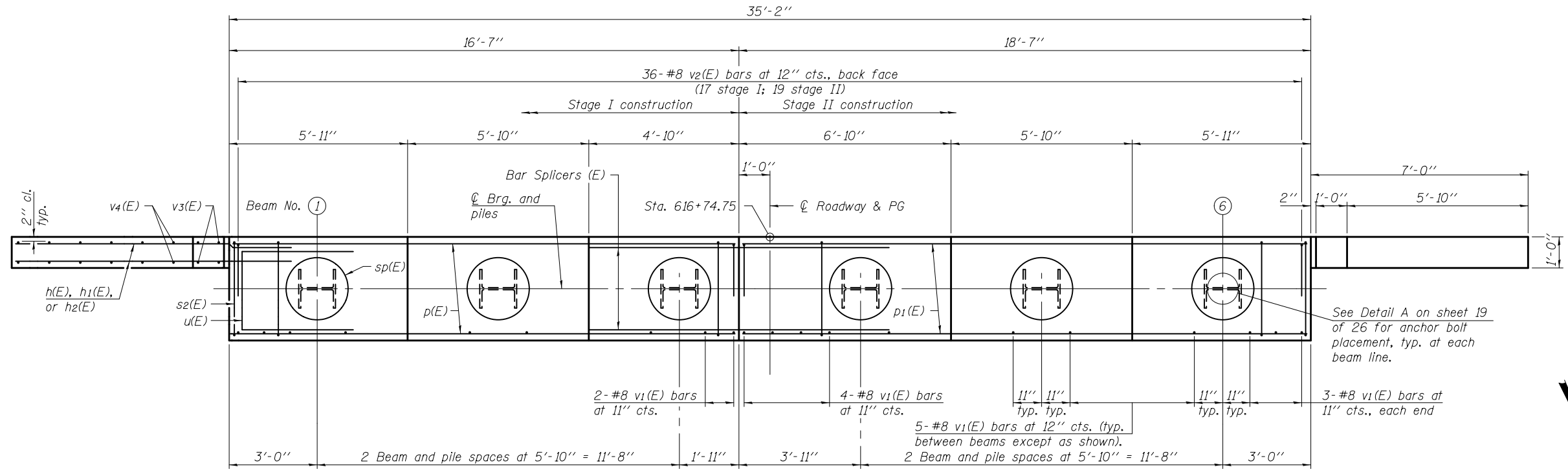
DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>James F. J...</i>	DATE - DECEMBER 7, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT STRUCTURE NO. 083 - 0067	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - IRENE PANTOJA / N.R.B.	PASSED - <i>Carl...</i>	REVISED			881	32B-1	SALINE	66	40	
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			CONTRACT NO. 78083					
CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.					SHEET NO. 17 OF 26 SHEETS					



Notes:
 Pour steps monolithically with cap.
 See sheet 19 of 26 for additional abutment details and Bill of Material.
 For bar splicer details, see sheet 24 of 26.
 For details of piles, see sheet 23 of 26.



* See field cutting diagram on sheet 19 of 26.



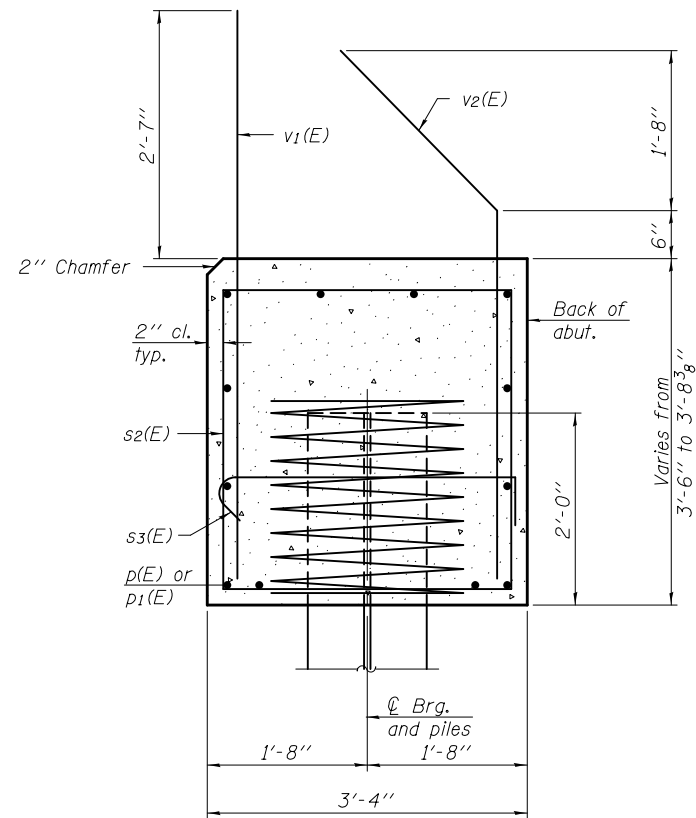
See Detail A on sheet 19 of 26 for anchor bolt placement, typ. at each beam line.

PILE DATA

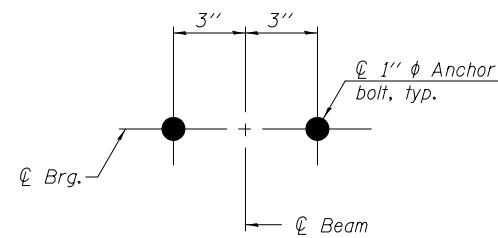
Type: Steel piles HP 14x17
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 511 kips
 Est. Length: 38'
 No. Production Piles: 6
 No. Test Piles: None

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>James F. J. [Signature]</i>	DATE - DECEMBER 7, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT STRUCTURE NO. 083 - 0067	F.A.P. RTE. 881	SECTION 32B-1	COUNTY SALINE	TOTAL SHEETS 66	SHEET NO. 41	
CHECKED - IRENE PANTOJA / N.R.B.	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 78083					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 18 OF 26 SHEETS					
CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.					ILLINOIS FED. AID PROJECT					



**SECTION THRU
ABUTMENT**



DETAIL A

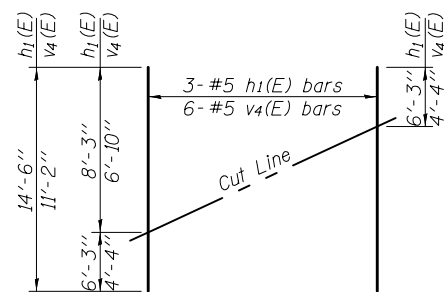
**NORTH ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	8'-10"	—
h1(E)	6	#5	14'-6"	—
h2(E)	4	#5	7'-1"	—
p(E)	12	#7	16'-3"	—
p1(E)	12	#7	18'-3"	—
s2(E)	32	#5	13'-3"	□
s3(E)	12	#5	4'-0"	└
sp(E)	6	#4	2'-0"	▩
u(E)	8	#6	10'-6"	▭
v1(E)	32	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	7'-1"	—
v4(E)	12	#5	11'-2"	—
Structure Excavation		Cu. Yd.	43.7	
Concrete Structures		Cu. Yd.	18.9	
Reinforcement Bars, Epoxy Coated		Pound	3,450	
Furnishing Steel Piles, HP 14x117		Foot	174	
Driving Piles		Foot	174	

**SOUTH ABUTMENT
BILL OF MATERIAL**

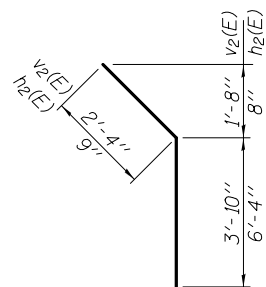
Bar	No.	Size	Length	Shape
h(E)	32	#5	8'-10"	—
h1(E)	6	#5	14'-6"	—
h2(E)	4	#5	7'-1"	—
p(E)	12	#7	16'-3"	—
p1(E)	12	#7	18'-3"	—
s2(E)	32	#5	13'-3"	□
s3(E)	12	#5	4'-0"	└
sp(E)	6	#4	2'-0"	▩
u(E)	8	#6	10'-6"	▭
v1(E)	32	#8	5'-11"	—
v2(E)	36	#8	6'-2"	—
v3(E)	8	#5	7'-1"	—
v4(E)	12	#5	11'-2"	—
Structure Excavation		Cu. Yd.	43.7	
Concrete Structures		Cu. Yd.	18.9	
Reinforcement Bars, Epoxy Coated		Pound	3,450	
Furnishing Steel Piles, HP 14x117		Foot	228	
Driving Piles		Foot	228	
			0	

For details of piles see sheet 23 of 26.

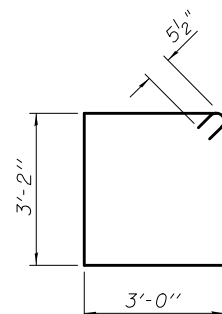


FIELD CUTTING DIAGRAM

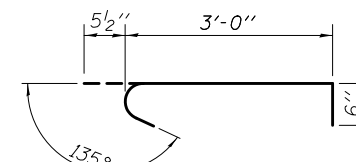
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



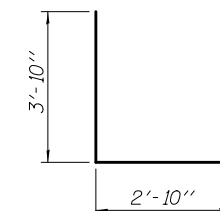
BAR v2(E) & h2(E)



BAR s2(E)



BAR s3(E)



BAR u(E)

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA / N.R.B.
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

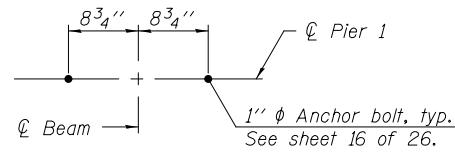
**ABUTMENTS
 STRUCTURE NO. 083 - 0067**

SHEET NO. 19 OF 26 SHEETS

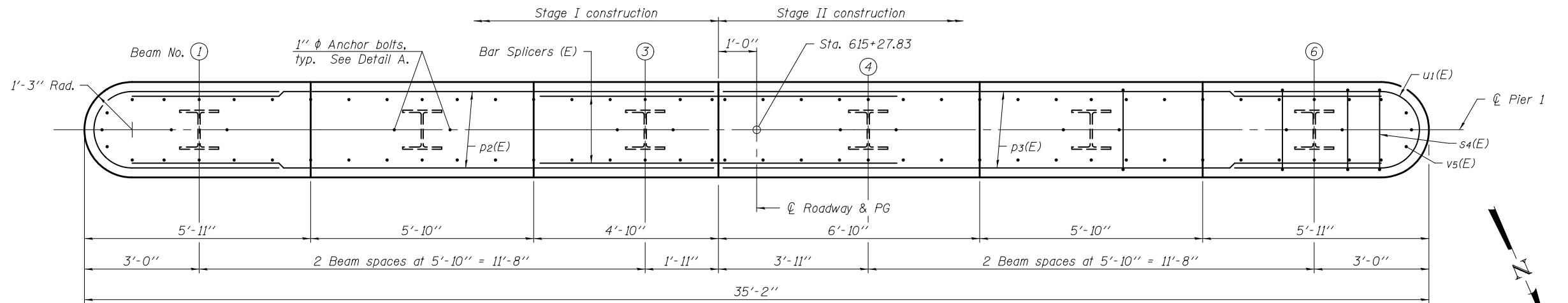
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	42
CONTRACT NO. 78083				

ILLINOIS FED. AID PROJECT

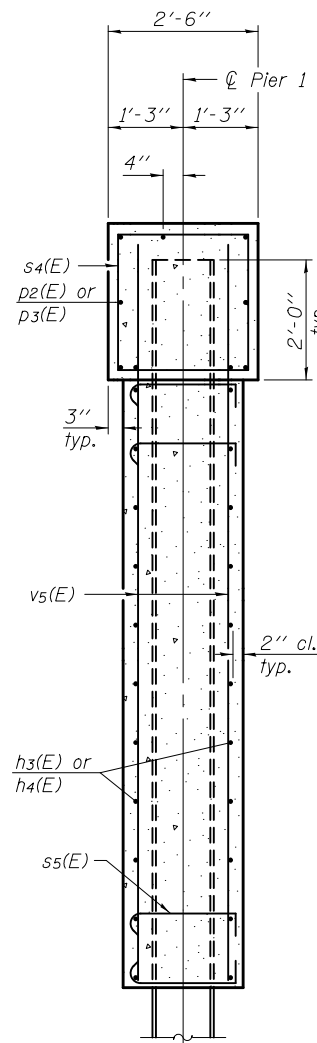
Notes:
 Pour steps monolithically with cap.
 See sheet 22 of 26 for additional pier details and Bill of Material.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 23 of 26.
 For bar splicer details, see sheet 24 of 26.



DETAIL A

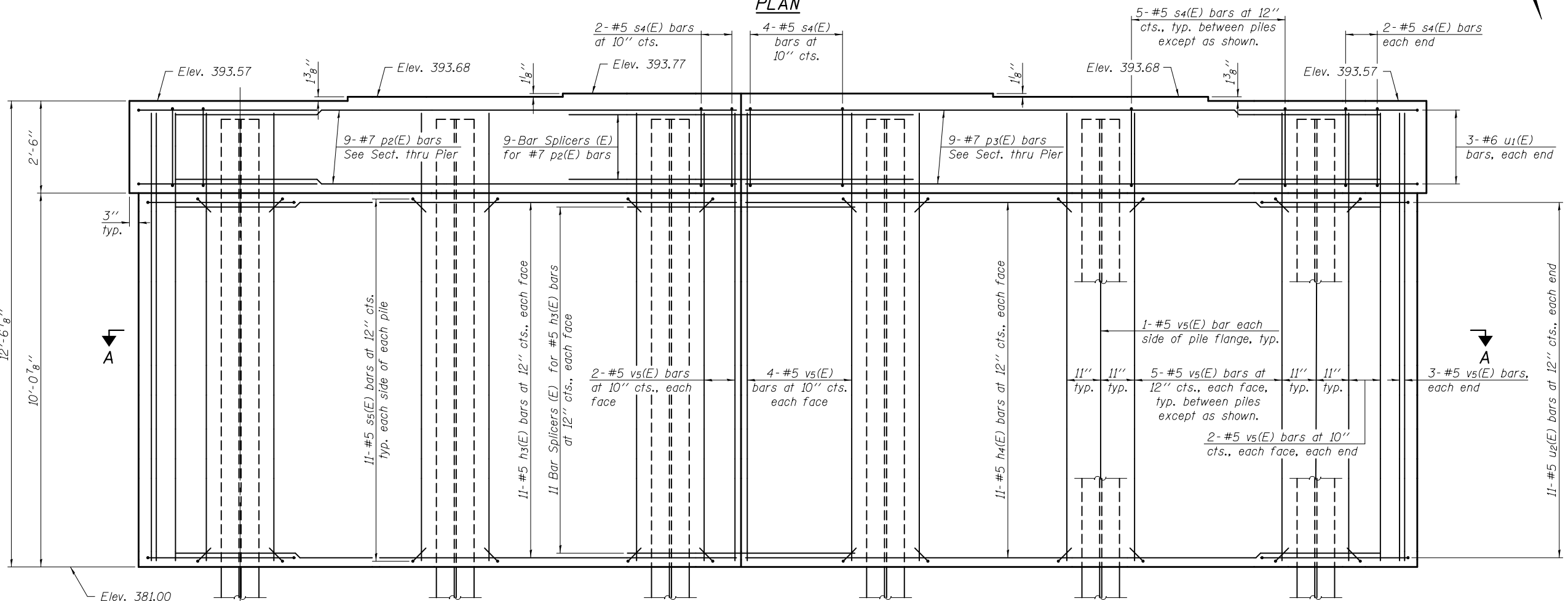


PLAN

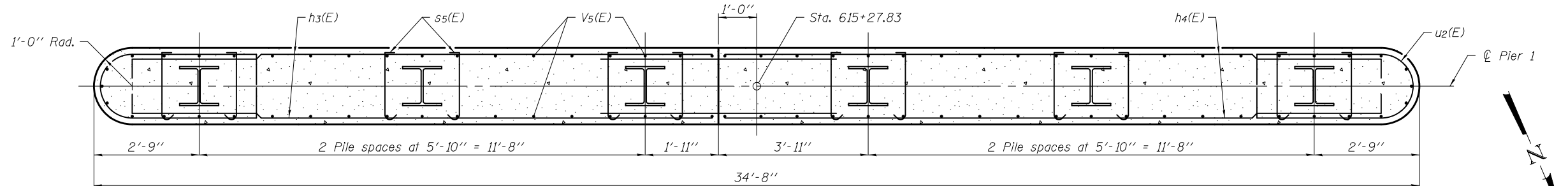


SECTION THRU PIER

* For Rock Socket Detail and Pile Data, see sheet 22 of 26.



ELEVATION



SECTION A-A

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA / N.R.B.
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.

EXAMINED
 PASSED

Jaime F. Joffe
 ENGINEER OF BRIDGE DESIGN
Carl Rupp
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 7, 2015

REVISED
 REVISED

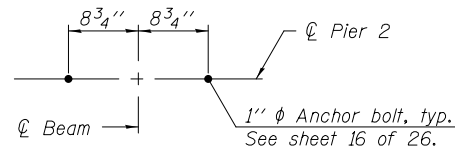
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1
 STRUCTURE NO. 083 - 0067**

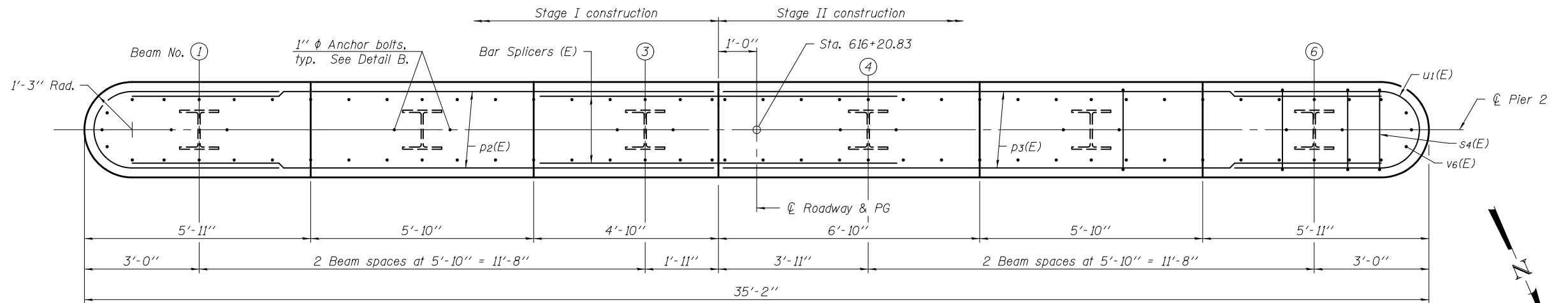
SHEET NO. 20 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	43
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

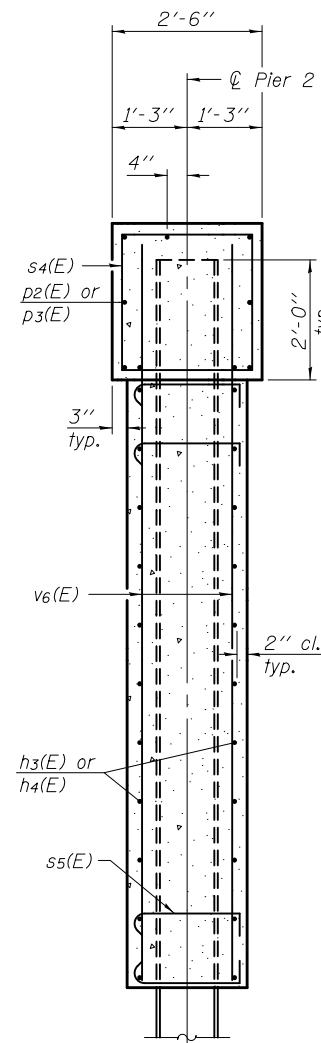
Notes:
 Pour steps monolithically with cap.
 See sheet 22 of 26 for additional pier details and Bill of Material.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 23 of 26.
 For bar splicer details, see sheet 24 of 26.



DETAIL B

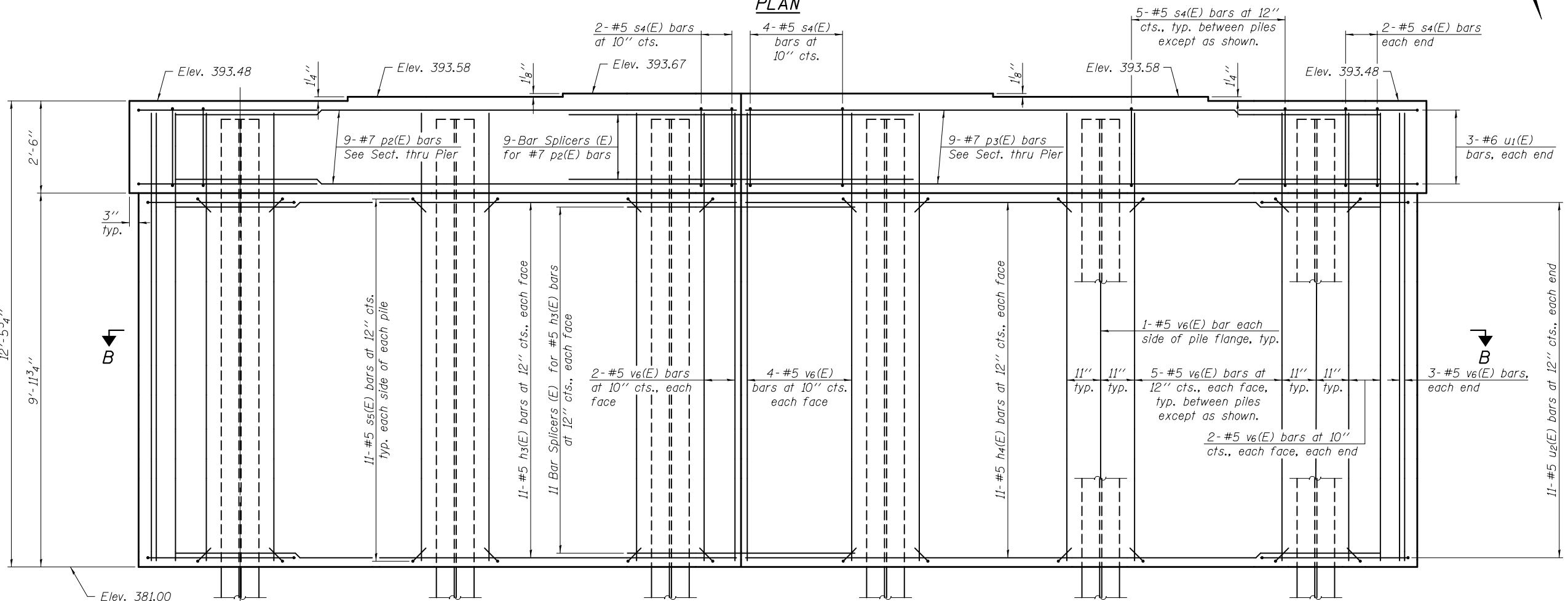


PLAN

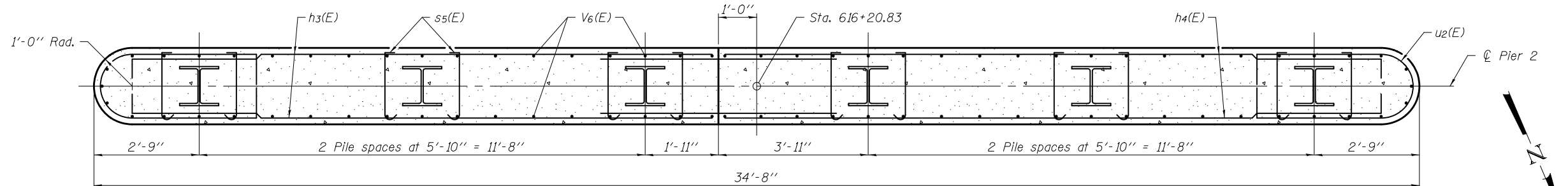


SECTION THRU PIER

* For Rock Socket Detail and Pile Data, see sheet 22 of 26.



ELEVATION



SECTION B-B

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA / N.R.B.
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.

EXAMINED
 PASSED

Jaime F. Joffe
 ENGINEER OF BRIDGE DESIGN
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

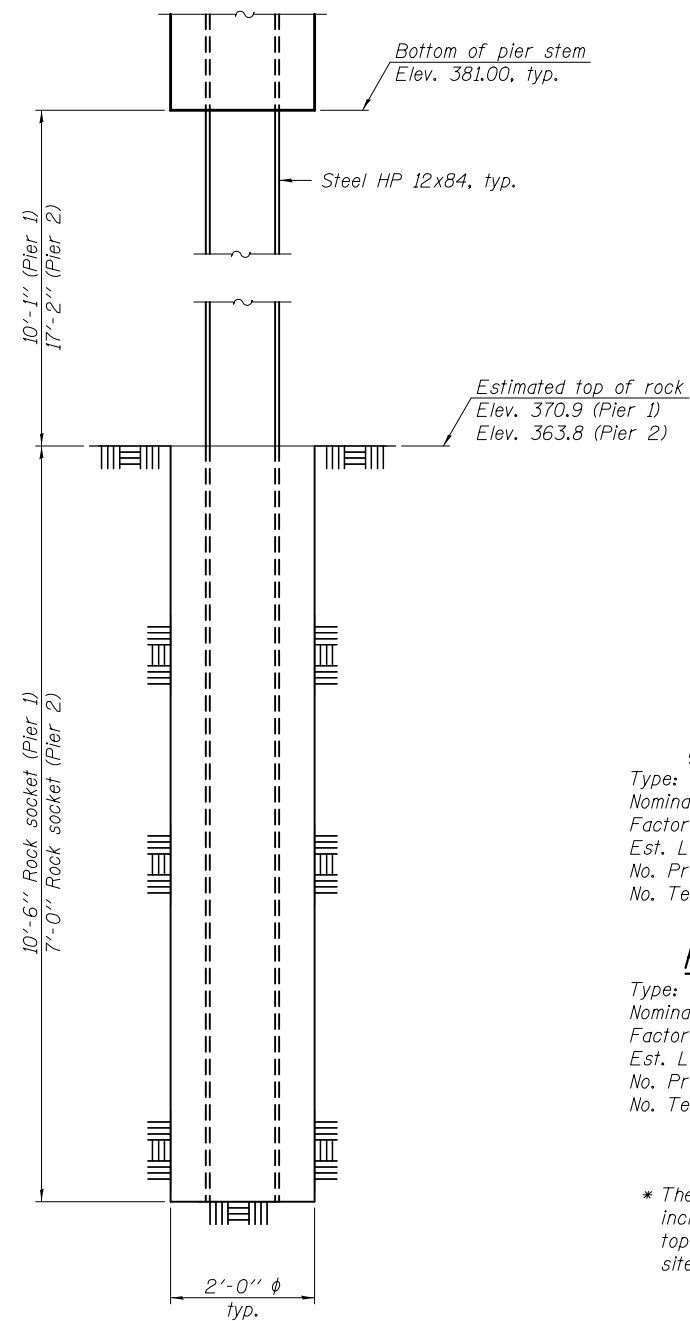
DATE - DECEMBER 7, 2015
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

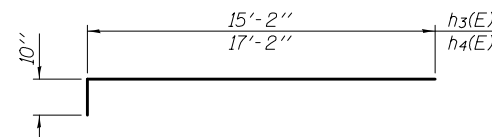
PIER 2
 STRUCTURE NO. 083 - 0067

SHEET NO. 21 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	44
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				



ROCK SOCKET DETAIL



BARS h3(E) & h4(E)

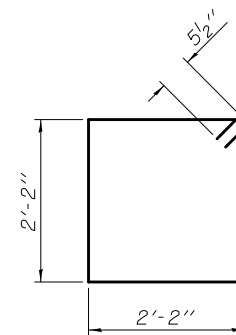
PIER 1 PILE DATA

Type: Steel piles HP 12x84
 Nominal Required Bearing: Set in rock
 Factored Resistance Available: 365 kips
 Est. Length: *43'
 No. Production Piles: 6
 No. Test Piles: None

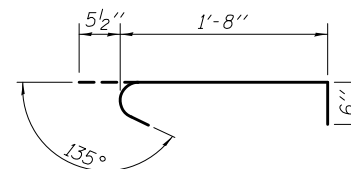
PIER 2 PILE DATA

Type: Steel piles HP 12x84
 Nominal Required Bearing: Set in rock
 Factored Resistance Available: 365 kips
 Est. Length: *40'
 No. Production Piles: 6
 No. Test Piles: None

* The estimated pile length has been increased to account for the variable top of rock elevation throughout the site.



BAR s4(E)



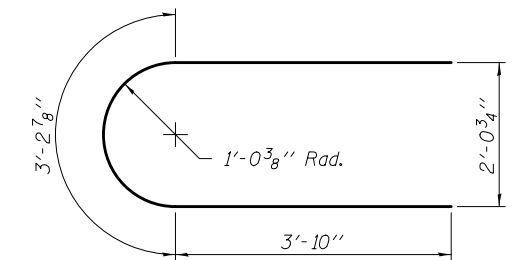
BAR s5(E)

**PIER 1
BILL OF MATERIAL**

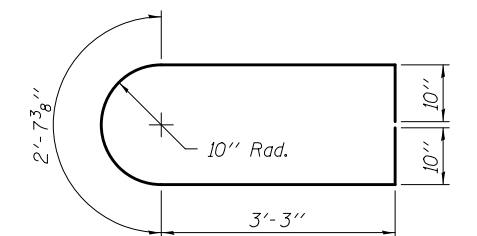
Bar	No.	Size	Length	Shape
h3(E)	22	#5	16'-0"	□
h4(E)	22	#5	18'-0"	□
p2(E)	9	#7	15'-2"	—
p3(E)	9	#7	17'-2"	—
s4(E)	30	#5	9'-7"	□
s5(E)	132	#5	2'-8"	□
u1(E)	6	#6	10'-11"	□
u2(E)	22	#5	10'-10"	□
v5(E)	78	#5	12'-2"	—
Structure Excavation		Cu. Yd.	51.0	
Concrete Structures		Cu. Yd.	40.9	
Reinforcement Bars, Epoxy Coated		Pound	3,380	
Furnishing Steel Piles, HP 12x84		Foot	258	
Setting Piles in Rock		Each	6	

**PIER 2
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h3(E)	22	#5	16'-0"	□
h4(E)	22	#5	18'-0"	□
p2(E)	9	#7	15'-2"	—
p3(E)	9	#7	17'-2"	—
s4(E)	30	#5	9'-7"	□
s5(E)	132	#5	2'-8"	□
u1(E)	6	#6	10'-11"	□
u2(E)	22	#5	10'-10"	□
v6(E)	78	#5	12'-1"	—
Structure Excavation		Cu. Yd.	51.0	
Concrete Structures		Cu. Yd.	40.6	
Reinforcement Bars, Epoxy Coated		Pound	3,370	
Furnishing Steel Piles, HP 12x84		Foot	240	
Setting Piles in Rock		Each	6	



BAR u1(E)



BAR u2(E)

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI
 CHECKED - IRENE PANTOJA / N.R.B.
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.O. / I.P. / N.R.B. / G.R.A.

EXAMINED *Jaime F. Joffe*
 PASSED *Carl Rupp*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

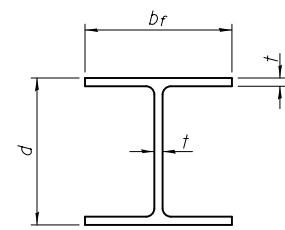
DATE - DECEMBER 7, 2015
 REVISED
 REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
STRUCTURE NO. 083 - 0067**

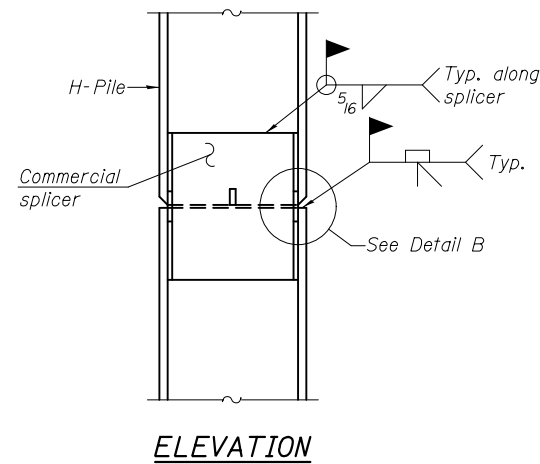
SHEET NO. 22 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	45
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

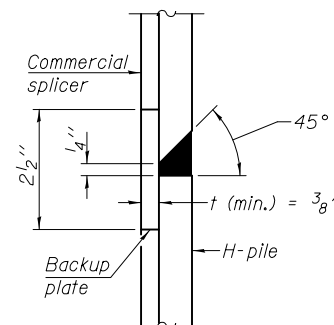


STEEL PILE TABLE

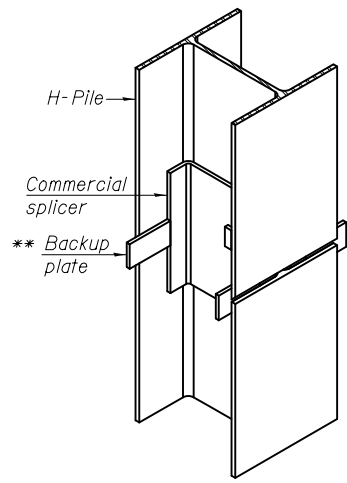
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

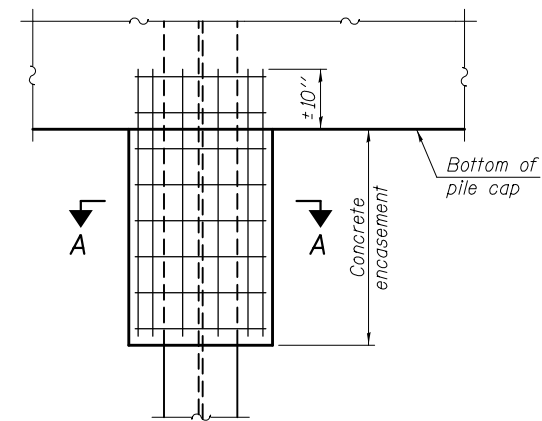


DETAIL "B"



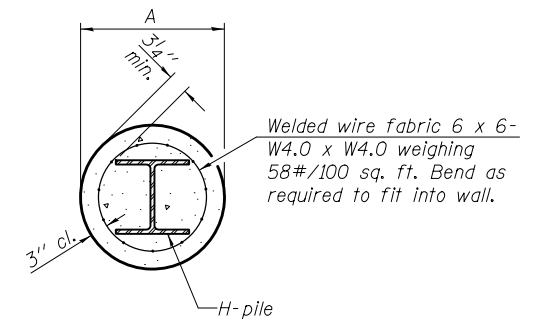
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



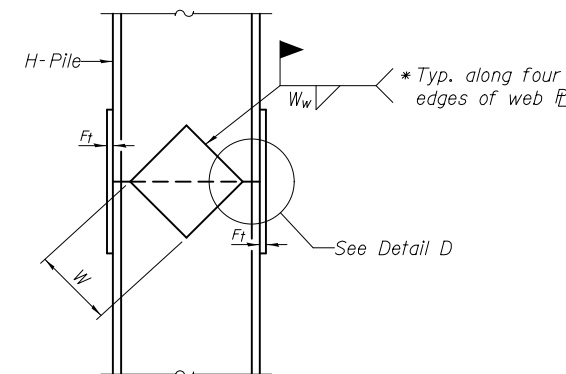
ELEVATION

PILE ENCASEMENT

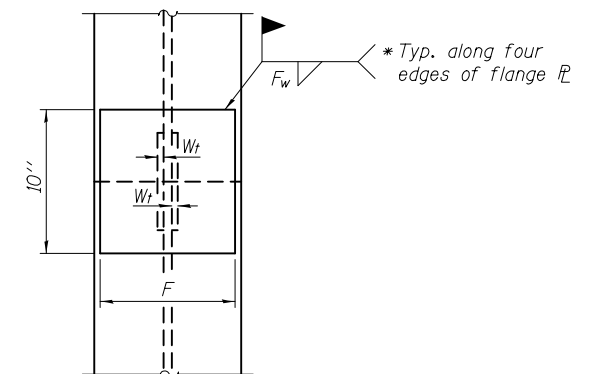


SECTION A-A

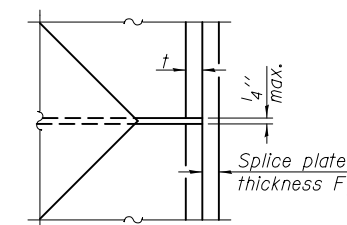
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



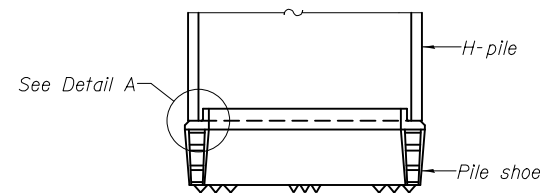
END VIEW



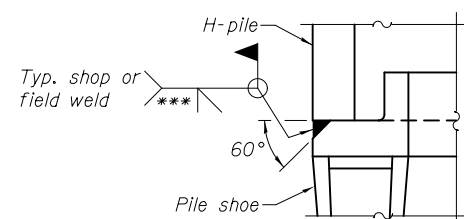
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

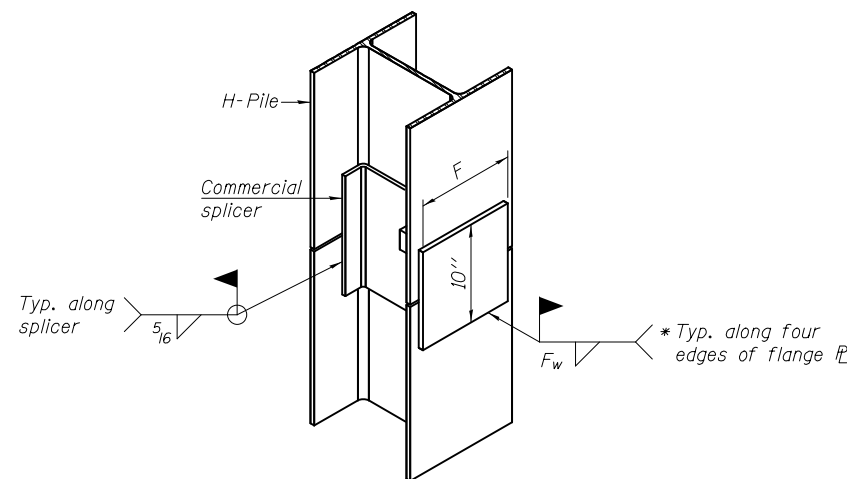


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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

SDATES \$TIMES

F-HP 1-27-12

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED
CHECKED - IRENE PANTOJA	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.M.O. / I.P. / G.R.A.	

DATE - DECEMBER 7, 2015

REVISOR

REVISOR

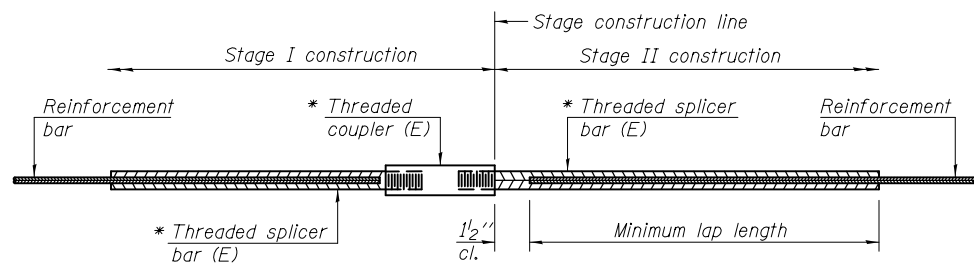
REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 083 - 0067

SHEET NO. 23 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	46
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

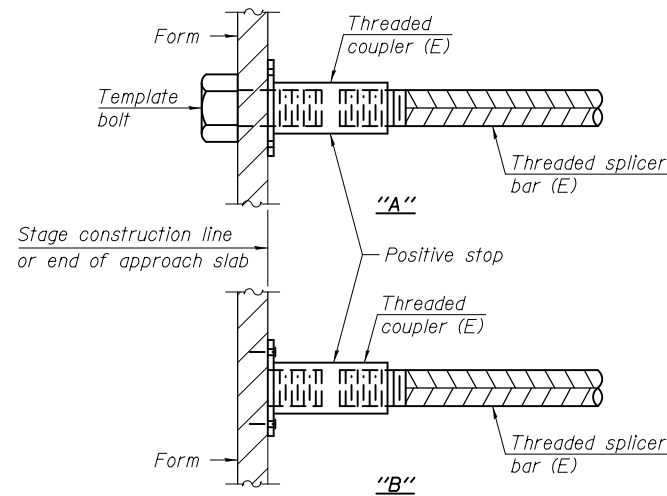


STANDARD BAR SPLICER ASSEMBLY

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

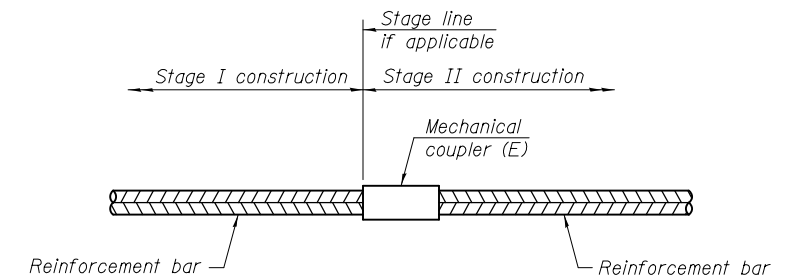
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Slab	#5	580	3'-6"
Diaphragms	#6	8	4'-5"
Approach slab, top	#4	50	2'-7"
Approach slab, bottom	#5	92	3'-3"
Approach slab, footing	#5	80	3'-3"
Abutments	#7	24	5'-10"
Pier caps	#7	18	5'-10"
Pier stems	#5	44	3'-3"



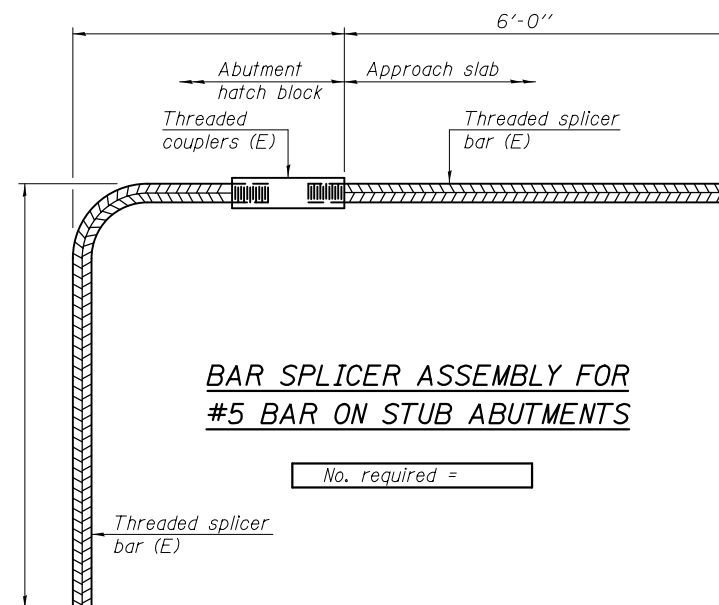
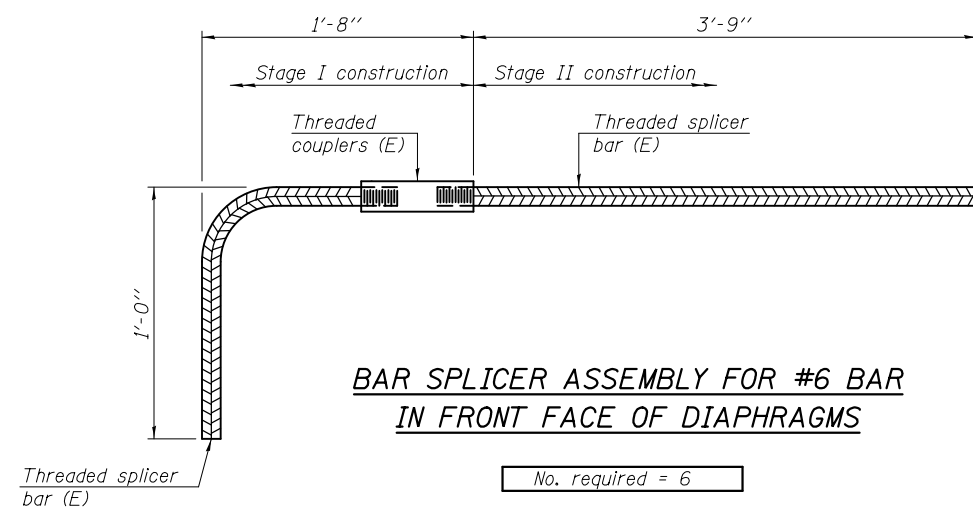
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - DECEMBER 7, 2015
CHECKED - IRENE PANTOJA	PASSED - <i>Carl [Signature]</i>	REVISOR
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - J.M.O. / I.P. / G.R.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 083 - 0067**

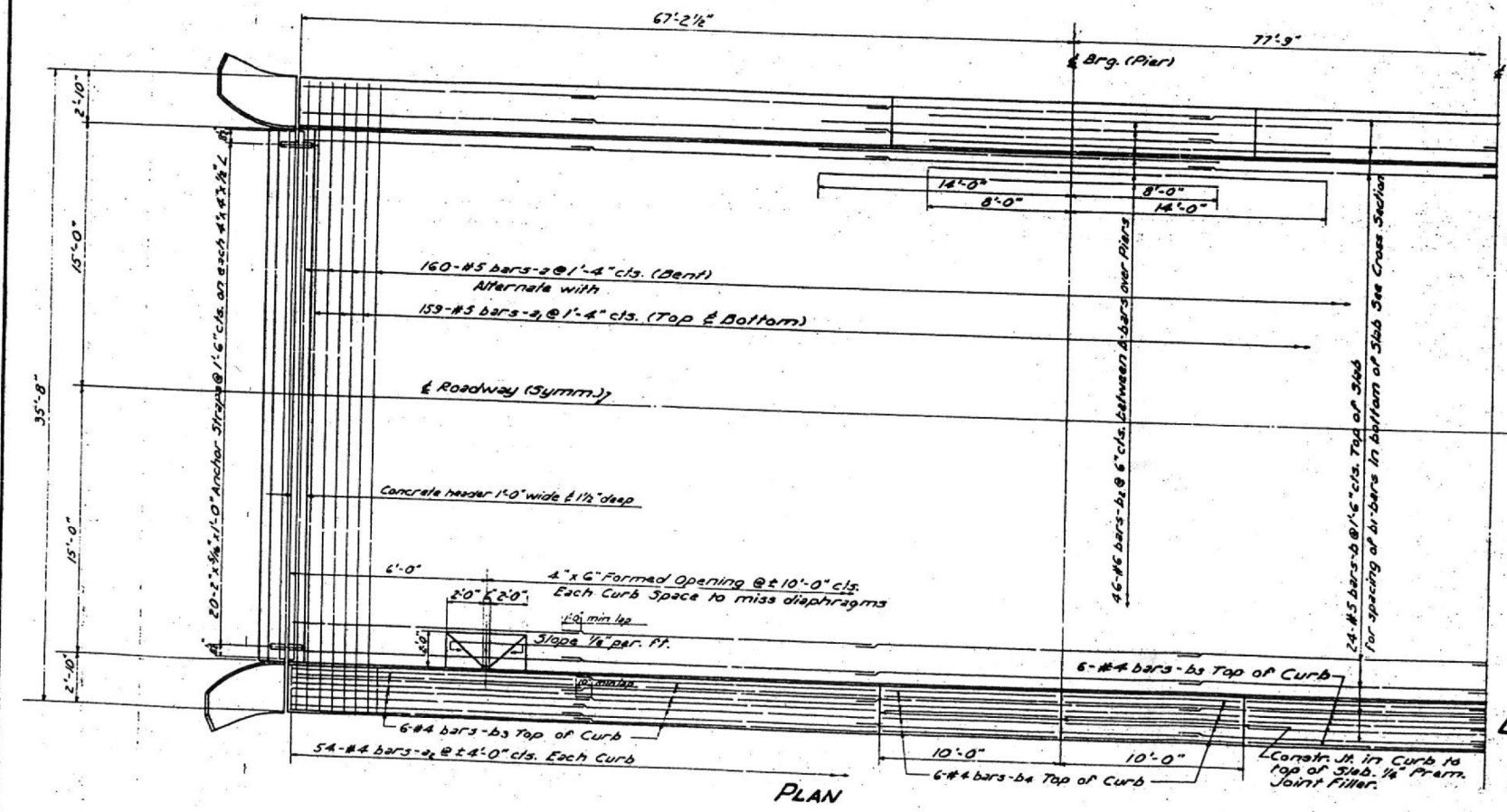
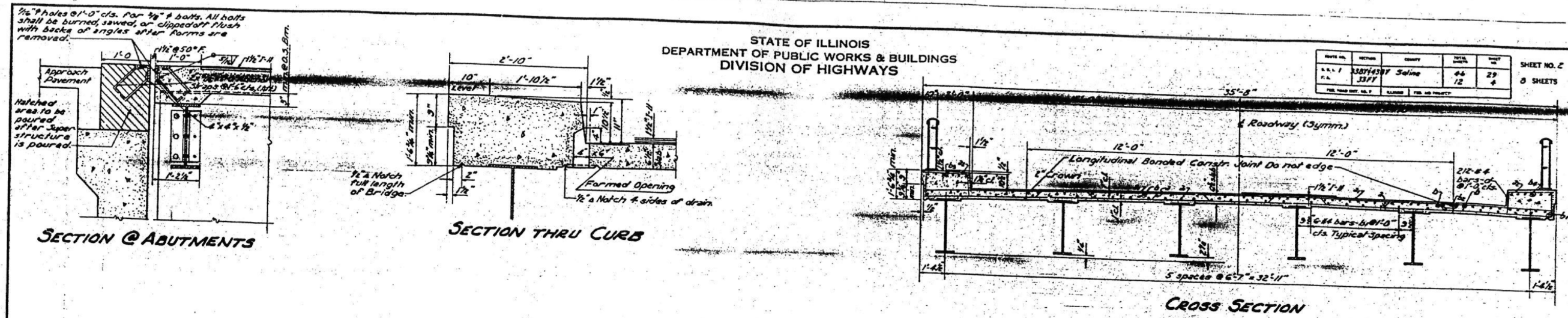
SHEET NO. 24 OF 26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	47
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

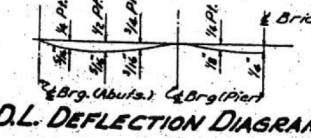
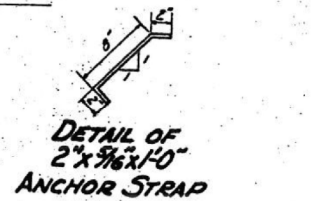
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3371437	Saline	Saline	66	29
P.A.	3371		12	6
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
OF SHEETS



FILLET DETAIL
Note: Fillet height "h" equals the difference between the underside of the Top Flange of beam after erection and bottom of the Slab plus D.L. Deflection.



BILL OF MATERIAL-SUPERSTRUCTURE

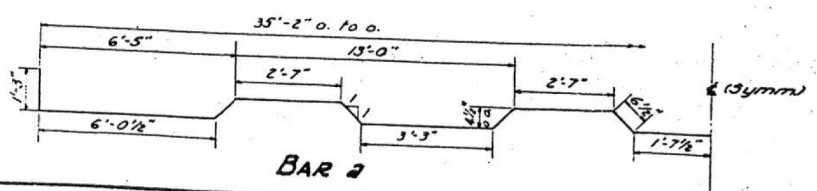
BAR	No.	SIZE	LENGTH	SHAPE
a	160	#5	35'-0"	
b	318	#5	35'-2"	
c	108	#4	2'-6"	
d	192	#5	27'-6"	
d1	256	#4	27'-3"	
d2	32	#6	22'-0"	
b3	72	#4	23'-3"	
b4	48	#4	9'-9"	
d	424	#4	1'-3"	

Class X Concrete	Cu. Yds.	200.0
Reinforcement Bars	Lbs.	33630
Structural Steel	Lbs.	275800
Name Plates	Each	One
Metal Handrail	Lin. Ft.	424

DESIGNED: *Amelia O'Connell*
 CHECKED: *R.L. J. Ganci*
 DRAWN: *J. Ganci*
 CHECKED: *M.O. 200*

EXAMINED: *W.H.P.*
 PASSED: *E.H.*
 APPROVED: *R.H. Bartelme*

DEC. 27 1954



SLAB DETAILS
S.B.I. Rt. 1 Sec 33-BF-Y
SALINE COUNTY
STA. 6157-73.52

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 083-0011

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	51
CONTRACT NO. 78083				

SCALE: NA SHEET NO. 2 OF 8 SHEETS STA. TO STA.

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

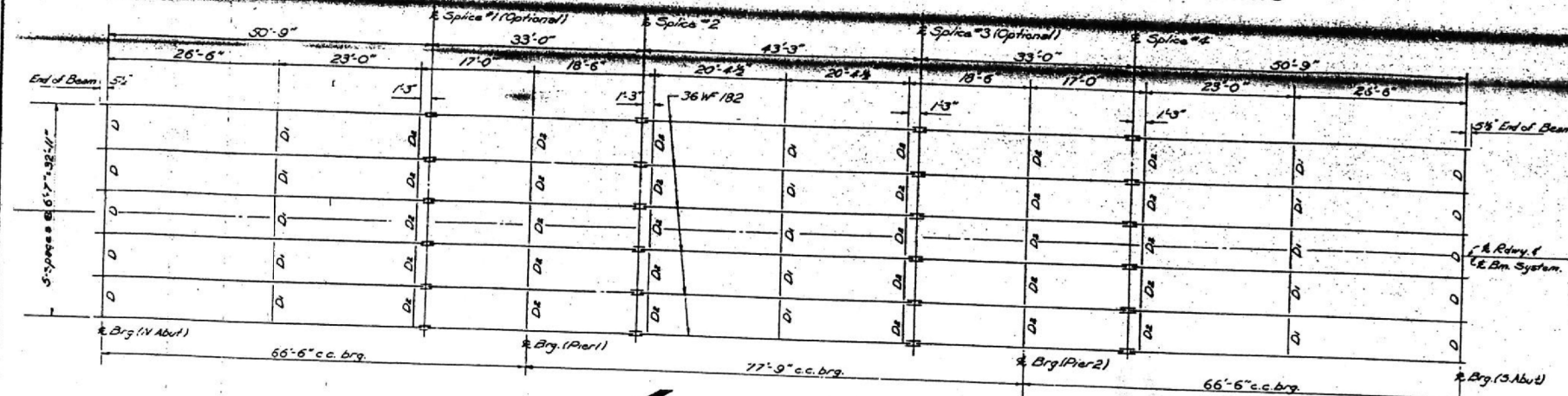
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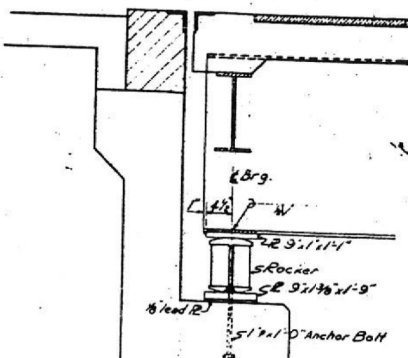
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ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:48:13 PM	DATE - 06/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

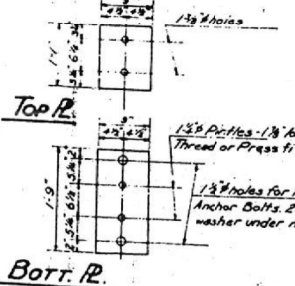
DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3/31/54	33BFY	Saline	46	30
FILE NO. DIST. NO.	SECTION	FILE NO. PROJECT	SHEETS	
			8	



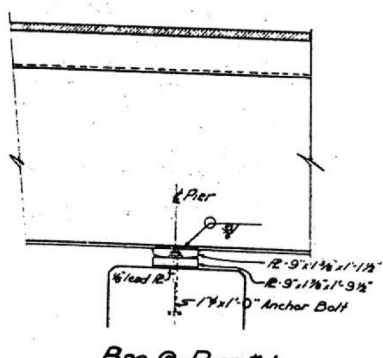
STRUCTURAL STEEL LAYOUT



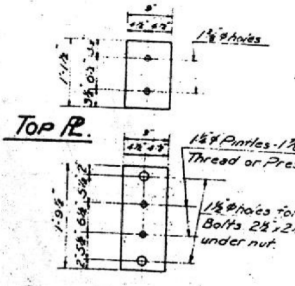
SEC. @ ABUTS.



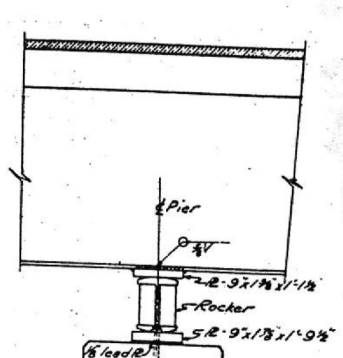
TOP R.
BOTT. R.



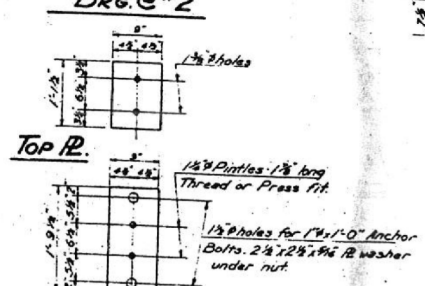
BRIG. @ PIER #1



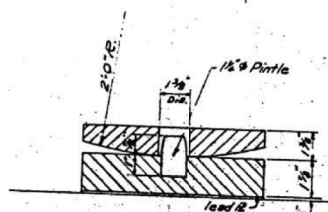
TOP R.
BOTT. R.



BRIG. @ PIER #2



TOP R.
BOTT. R.

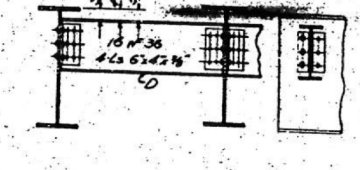


SEC. THRU. BRIG. @ PIER #1

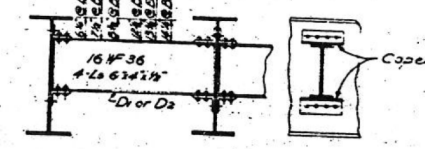


DETAIL OF BEAM SPLICE

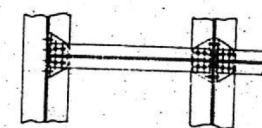
All rivet holes to be reamed with all parts assembled in proper position, and all parts match marked.



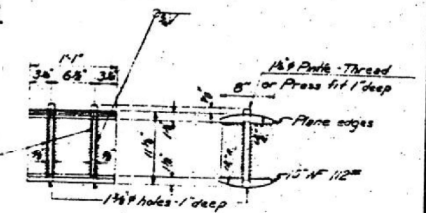
DIAPHRAGM - D



DIAPHRAGMS - D1 & D2



PINTLE



ROCKER DETAIL

DESIGNED	<i>Richard A. Gault</i>	EXAMINED	<i>J.M. ...</i>
CHECKED	<i>Richard A. Gault</i>	PASSED	<i>E. Rust</i>
DRAWN	<i>E. Rust</i>	APPROVED	<i>R.H. ...</i>
CHECKED	<i>M.O. ...</i>		

BRIDGE OVER SOUTH FORK SALINE RIVER
S.B.I. Rt. 1 Sec. 33BFY
SALINE COUNTY
STA. 615+73.52

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 083-0011

SCALE: NA SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	52
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

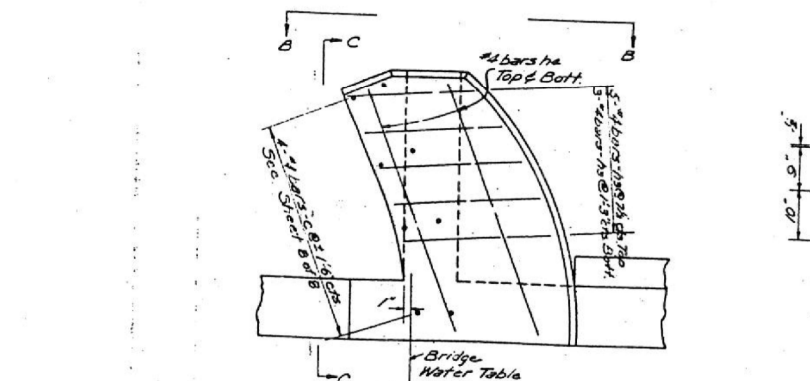
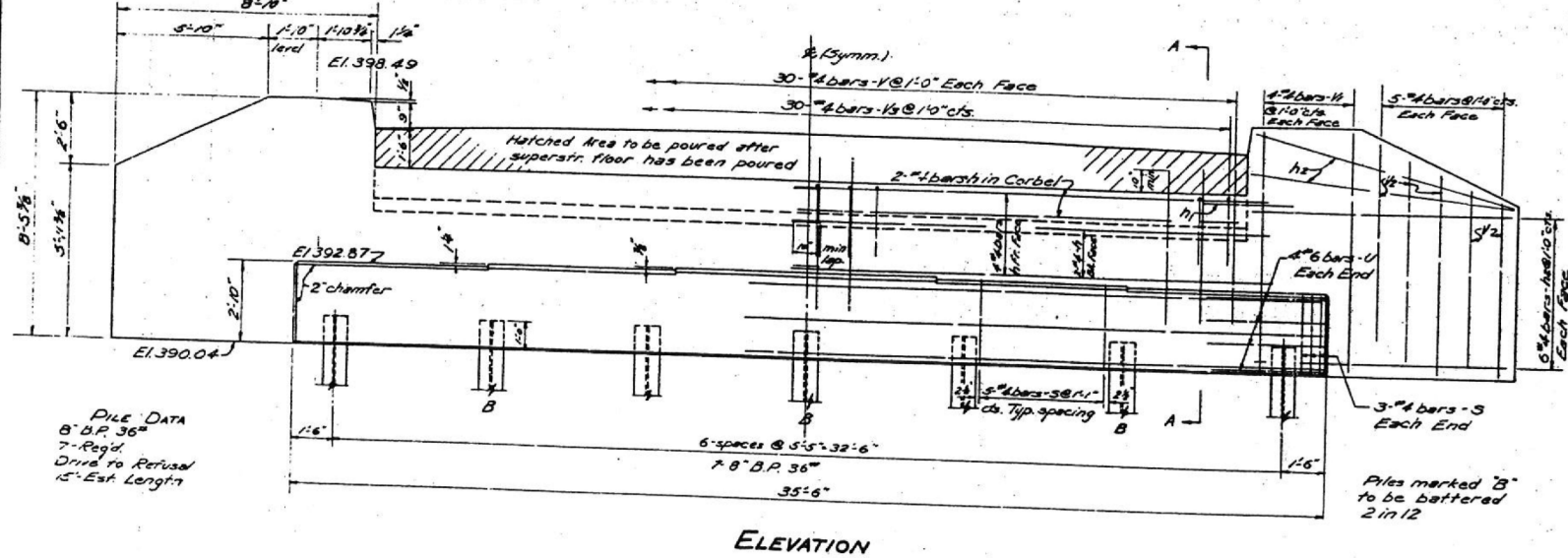
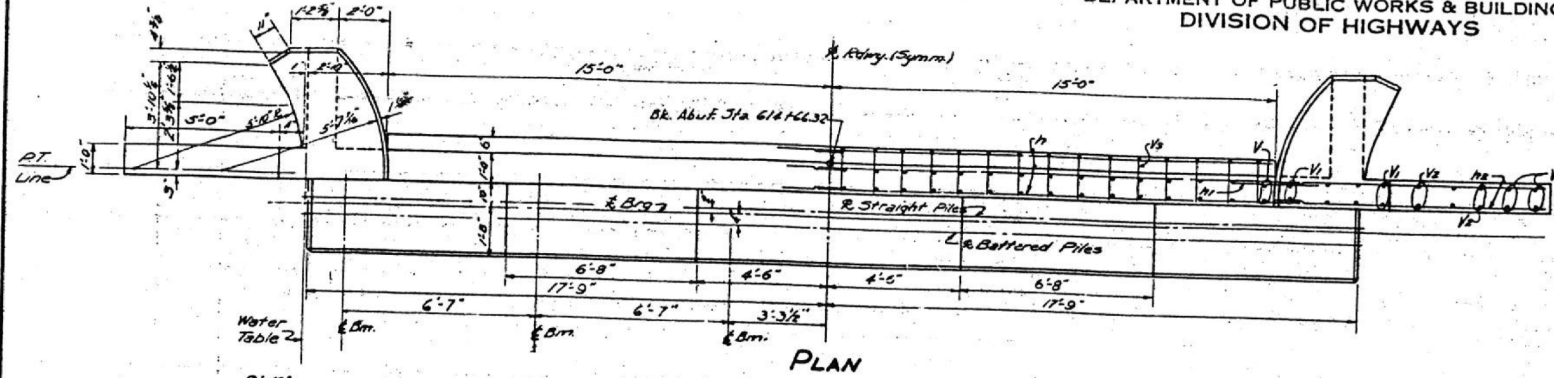
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DATE: 10/13/2015
FILE NAME: D:\78083\Drawings\em83.dgn



USER NAME = kah	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667 / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:48:30 PM	DATE - 06/15	REVISED -

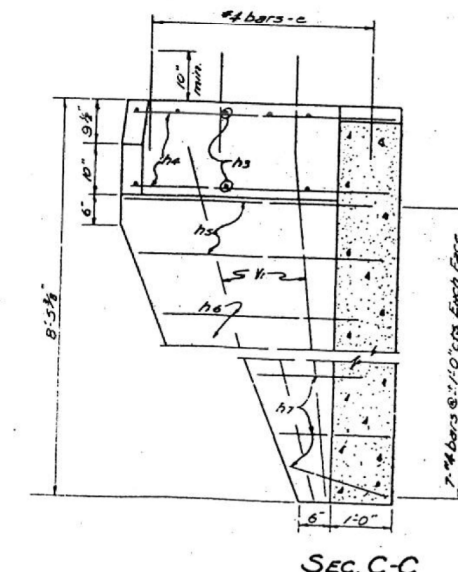
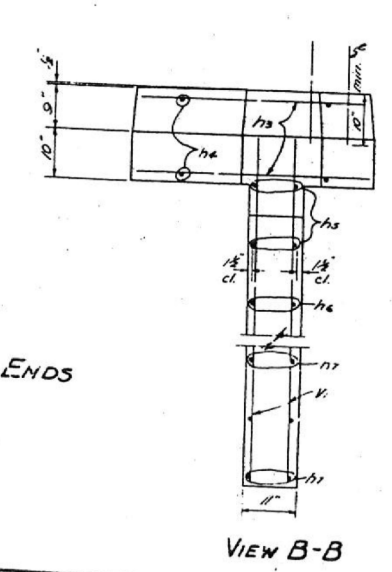
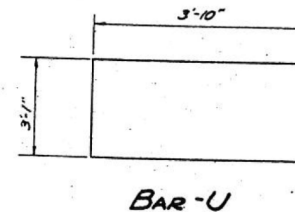
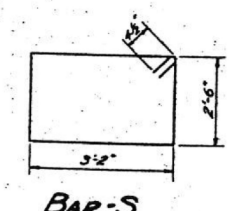
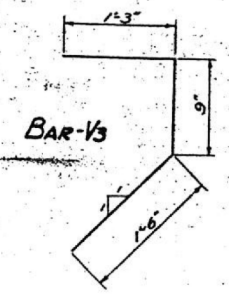
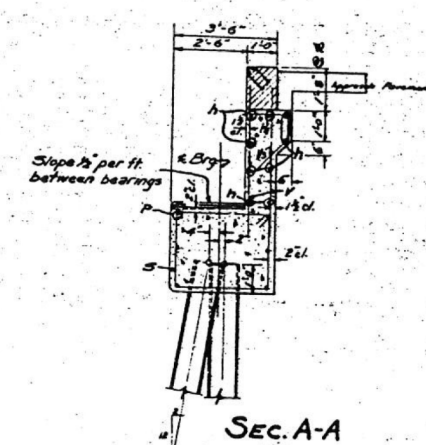
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
S.B.I. 1	3327(4)BY	Saline	66	31
SHEET NO. 4 OF 8 SHEETS				



DESIGNED *Handwritten*
CHECKED *Handwritten*
DRAWN *Handwritten*
CHECKED *Handwritten*

EXAMINED *Handwritten*
PASSED *Handwritten*
APPROVED *Handwritten*



BILL OF MATERIAL - No. ABUT.

Bar	No.	Size	Length	Shape
V	68	#4	5'-6"	
V1	24	#4	8'-3"	
V2	12	#4	6'-9"	
V3	30	#4	3'-6"	
h	16	#4	16'-3"	
h1	2	#4	2'-0"	
h2	32	#4	8'-9"	
h3	16	#4	2'-3"	
h4	8	#4	4'-6"	
h5	8	#4	4'-0"	
h6	8	#4	3'-0"	
h7	12	#4	2'-0"	
c	16	#4	2'-0"	
s	36	#4	12'-1"	
u	8	#6	10'-9"	
p	6	#7	35'-3"	
Class A Concrete				Cu. Yds. 24.2
Reinforcement Bars				Lbs. 1840
Steel Piles (BSP36)				Lin. Ft. 90
Test Piles				Each One
Class A Excav for Structure				Cu. Yds. 87

No. ABUT.
BRIDGE OVER SOUTH FORK SALINE RIVER
S.B.I. Rt. 1 SEC. 33-BY
SALINE COUNTY
STA. 615+73.52

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 083-0011

SCALE: NA SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	53
CONTRACT NO. 78083			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

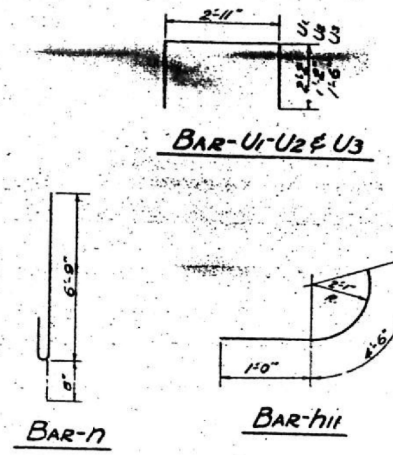
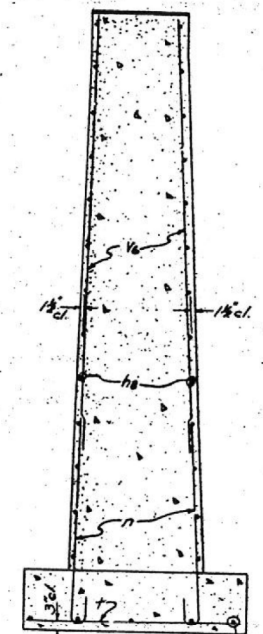
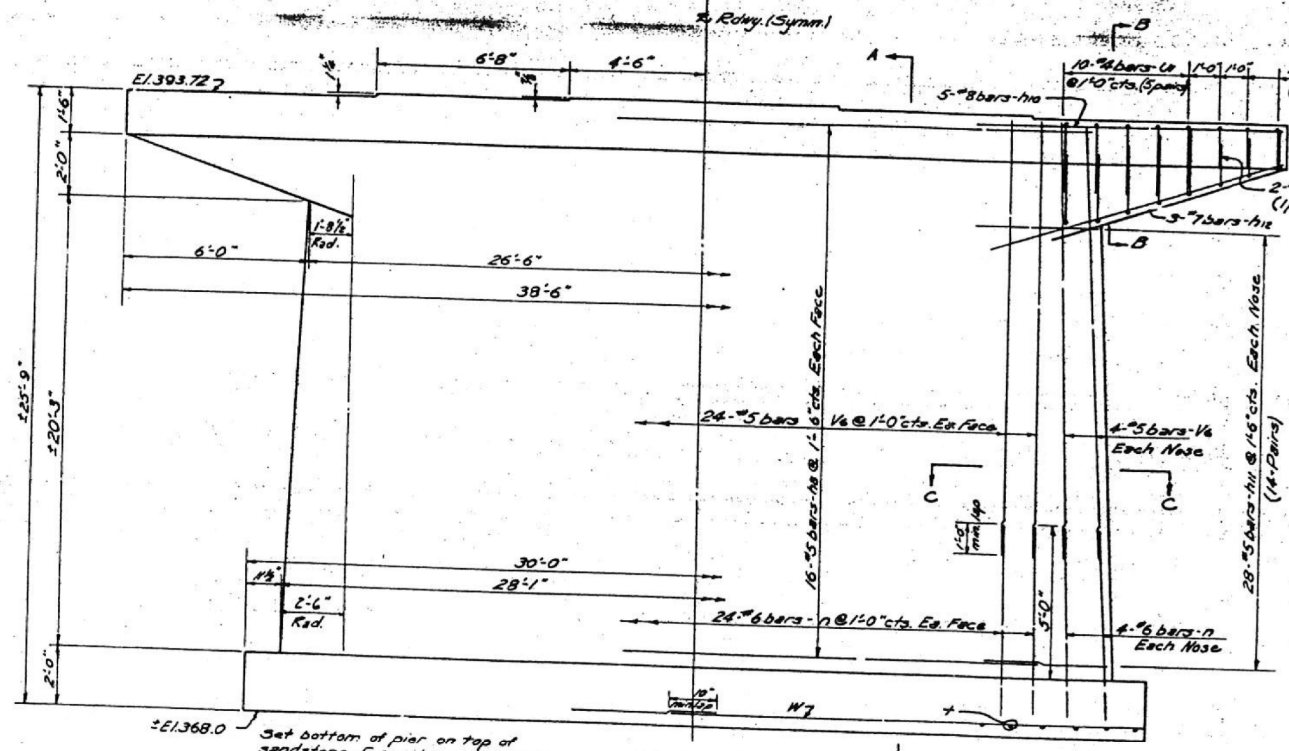
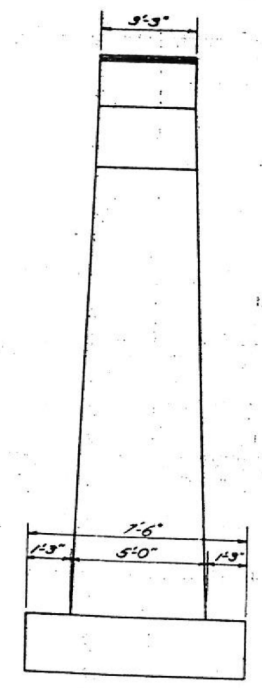
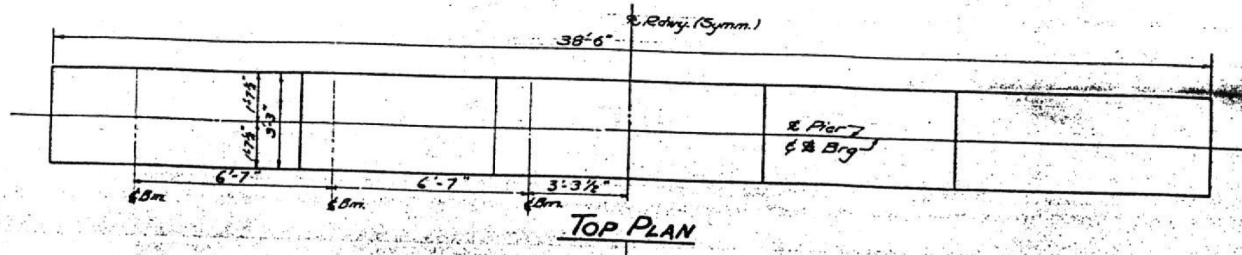
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USER NAME = kah	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:48:45 PM	DATE - 06/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	8/11/13	NO.	46	33
PROJECT	S.B.I. RT. 1			
SHEET NO. 6 8 SHEETS				



BILL OF MATERIAL - PIER #1

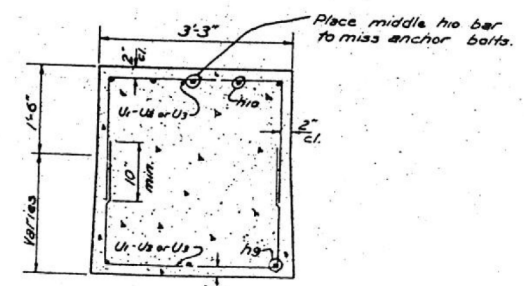
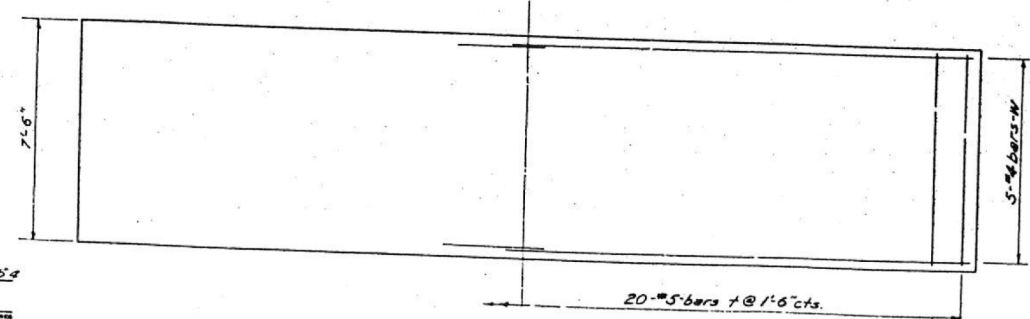
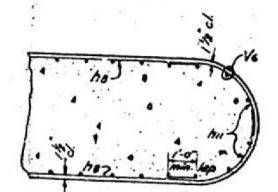
Bar	No	Size	Length	Shape
U6	36	#5	19'-6"	
h8	32	#5	23'-3"	
h10	10	#8	9'-0"	
h11	56	#5	5'-6"	
h12	6	#7	9'-0"	
U2	20	#4	7'-3"	
U2	8	#4	5'-3"	
U2	4	#4	5'-11"	
n	56	#6	7'-5"	
r	20	#5	7'-3"	
w	10	#4	15'-3"	

Class A Concrete Cu Yds 115.4
Reinforcement Bars Lbs 3610
Rock Excav for Structures Cu Yds 4
Class A Excav for Structures Cu Yds 87
Class B Excav for Structures Cu Yds 14.5

END VIEW

ELEVATION

SEC. A-A



SEC. C-C

FOOTING PLAN

SEC. B-B

DESIGNED: *M. O. R. O.* DATE: DEC 27 11 54
 CHECKED: *R. L. A. P. H.* EXAMINED: *V. M. S.*
 DRAWN: *R. L. A. P. H.* PASSED: *R. L. A. P. H.*
 CHECKED: *M. O. R. O.* APPROVED: *R. K. P. S.*

PIER 1
BRIDGE OVER SOUTH FORK SALINE RIVER
S.B.I. RT. 1 SEC. 33-BY
SALINE COUNTY
STA. 615+73.52

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 083-0011

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	55
CONTRACT NO. 78083				

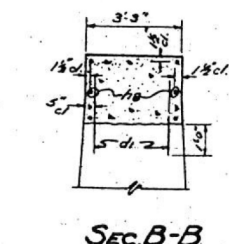
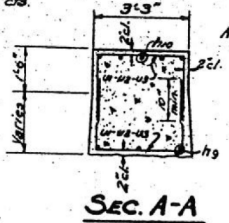
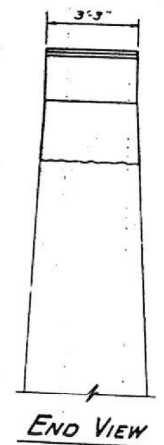
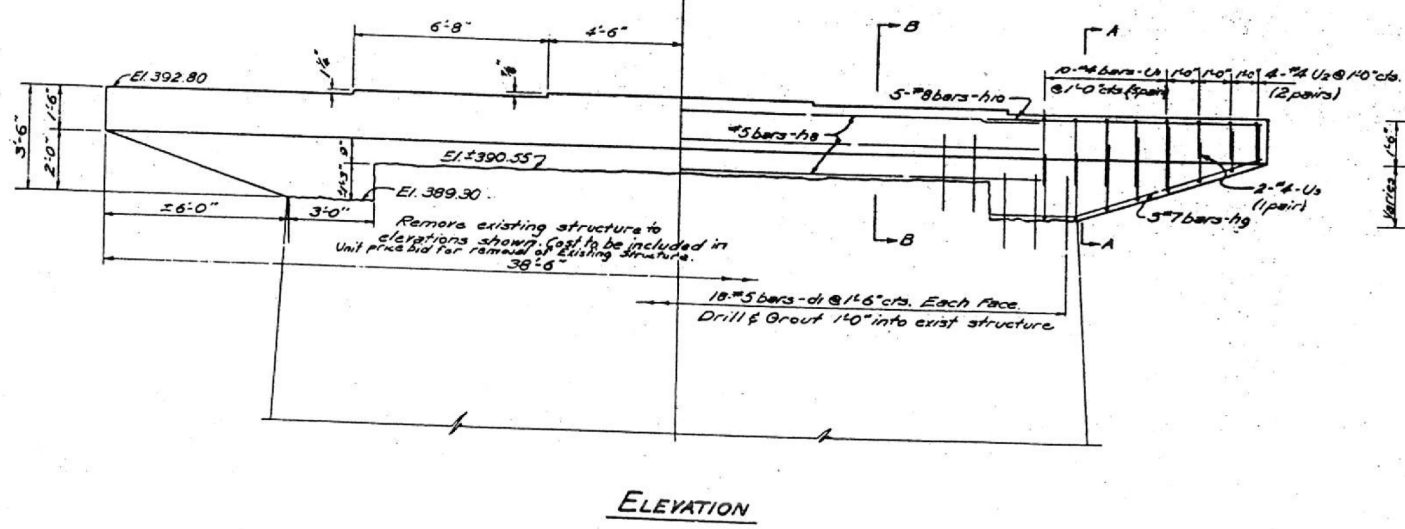
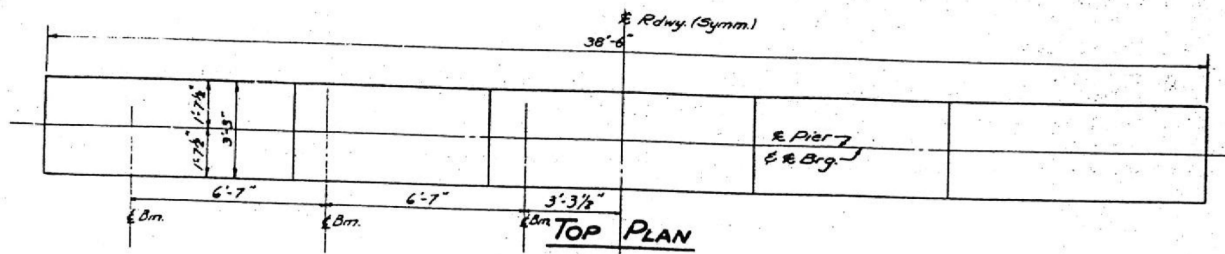
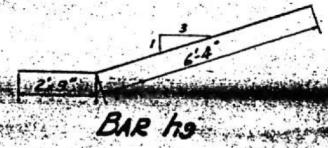
SCALE: NA SHEET NO. 6 OF 8 SHEETS STA. TO STA.

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

USER: kah DATE: 10/13/2015 FILE NAME: D:\78083\Drawings\em06.dgn



USER NAME = kah	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:49:21 PM	DATE - 06/15	REVISED -



BILL OF MATERIAL PIER #2

Bar	No	Size	Length	Shape
h9	6	#5	23'-3"	
h9	6	#7	9'-1"	
h9	10	#8	9'-0"	
U1	20	#4	7'-3"	C
U2	8	#4	5'-3"	C
U3	4	#4	5'-11"	C
d1	36	#5	2'-6"	
Class A Concrete			Cu. Yds. 12.1	
Reinforcement Bars			Lbs. 730	

NOTE:
For Bar details see Sheet #6 of 8

DESIGNED: *Michael Cox*
CHECKED: *Michael Cox*
DRAWN: *E. Rush*
CHECKED: *M.O. C.R.C.*

EXAMINED: *J.M. Rosinski*
PASSED: *[Signature]*
APPROVED: *R.L. Ventresca*

DEC. 27 1954

PIER #2
BRIDGE OVER SOUTH FORK SALINE RIVER
S.B.I. RT. 1 SEC. 33-BY
SALINE COUNTY
STA. 615+73.52

FOR INFORMATION ONLY

USER: kah
DATE: 10/13/2015
FILE NAME: D:\78083\Drawings\11-rem07.dgn



USER NAME = kah	DESIGNED - NHP	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
PLOT SCALE = 0.1667' / 1"	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015 1:49:42 PM	DATE - 06/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 083-0011

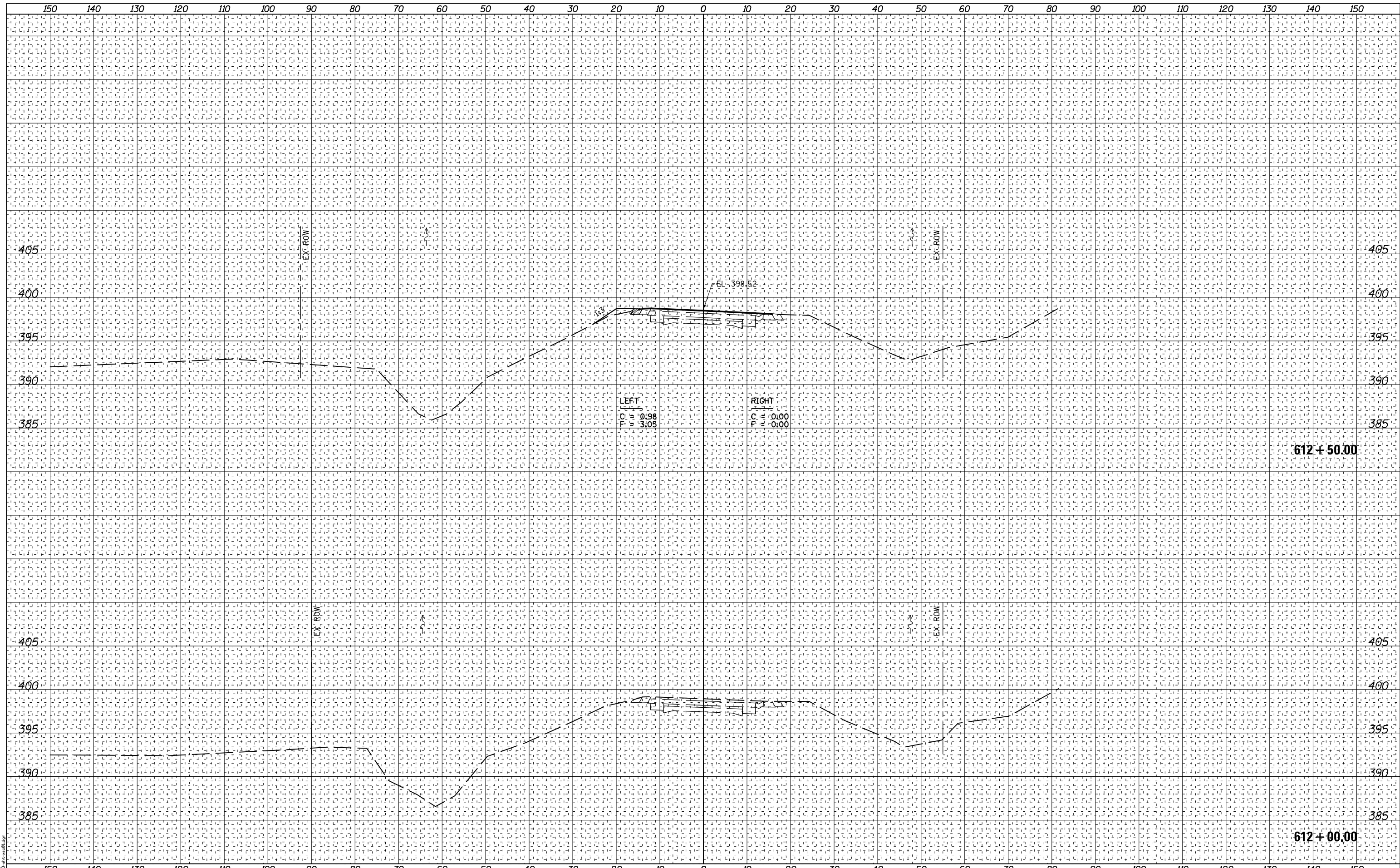
SCALE: NA SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	56
CONTRACT NO. 78083				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

PRINT DRIVER: L:\DLS\B\p1219
 PLOT DATE: 08/15/2015
 PLOT TIME: 10:02:01
 PLOT FILE: D:\P1219\p1219.dwg



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 881 (US 45) CROSS SECTIONS

USER NAME = kah	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

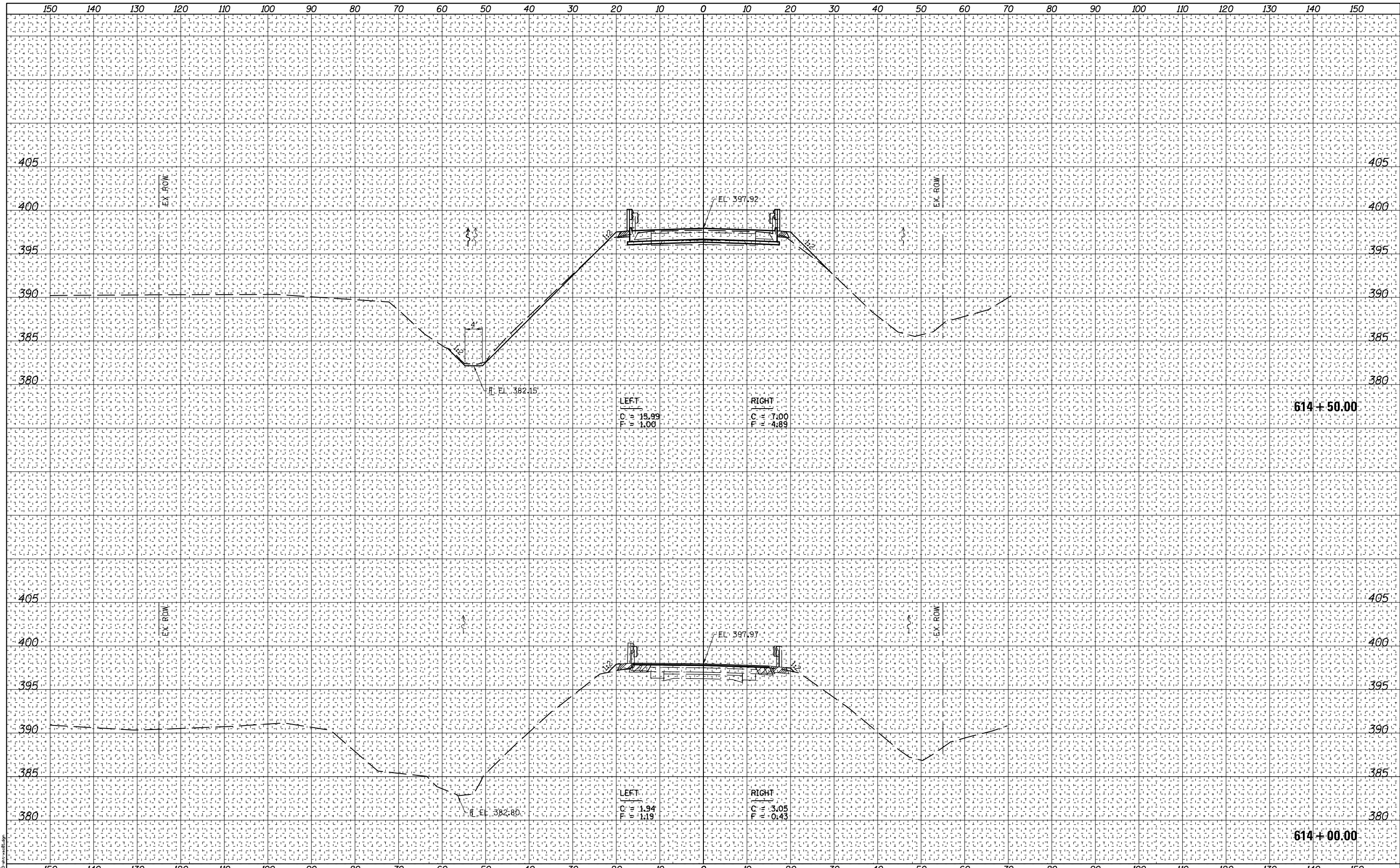
SCALE: AS SHOWN SHEET 2 OF 9 SHEETS STA. 612+00.00 TO STA. 612+50.00

F.A.P. RTE. 881	SECTION 32B-1	COUNTY SALINE	TOTAL SHEETS 66	SHEET NO. 59
CONTRACT NO. 78083				
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



PRINT DRIVER = L:\DLS\B\p1219
 PLOT DATE = 10/13/2015
 PLOT FILE = D:\P1219\p1219.dwg



USER NAME = kah	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

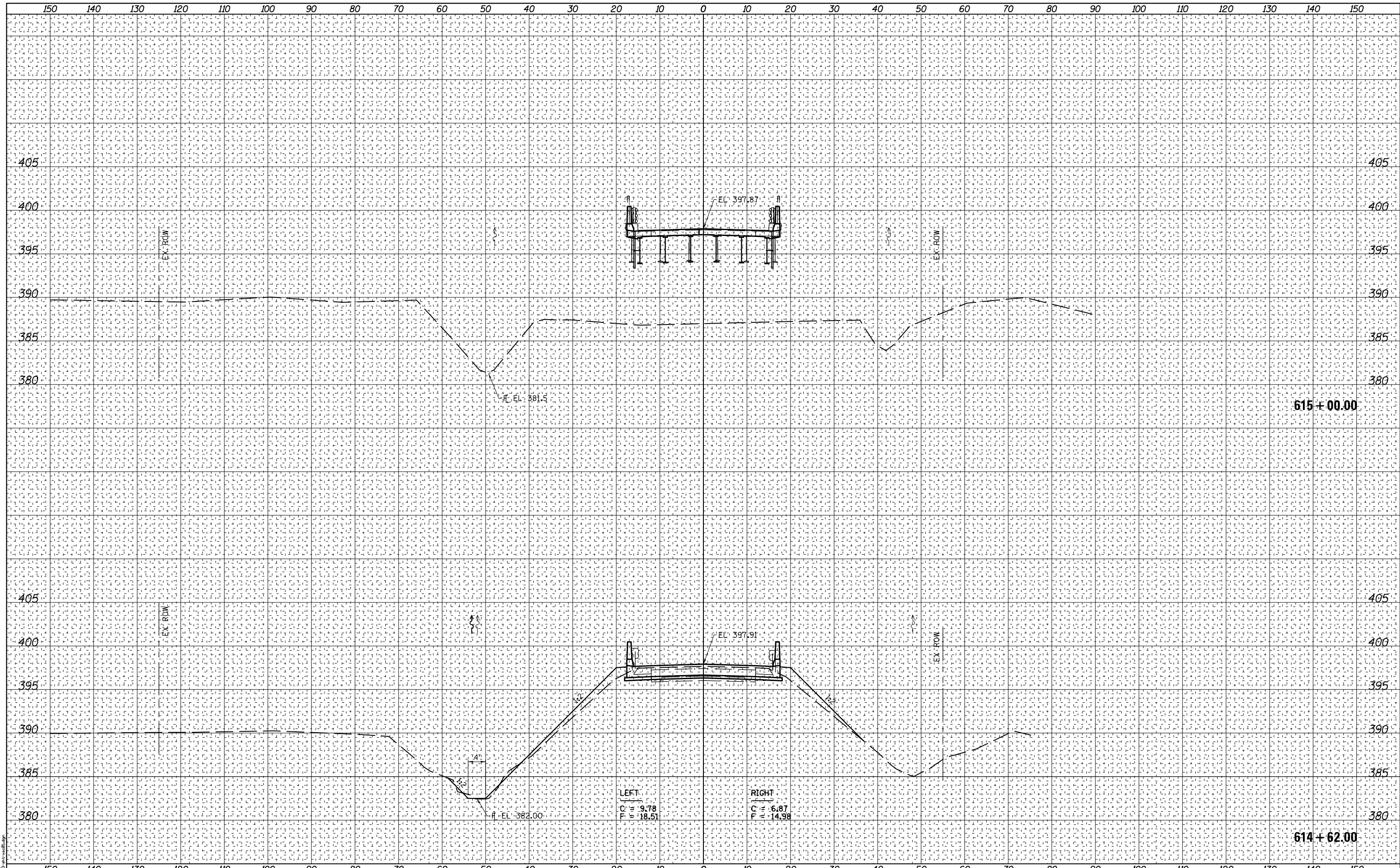
FAP 881 (US 45) CROSS SECTIONS

SCALE: AS SHOWN SHEET 4 OF 9 SHEETS STA. 614+00.00 TO STA. 614+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	61
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				

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

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



PRINT DRIVER = J:\04-18-2015\p1019
 PLOT DATE = 10/13/2015
 PLOT TIME = 10:13:01 AM
 PLOT FILE = 1019.dwg



USER NAME = kah	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 881 (US 45) CROSS SECTIONS

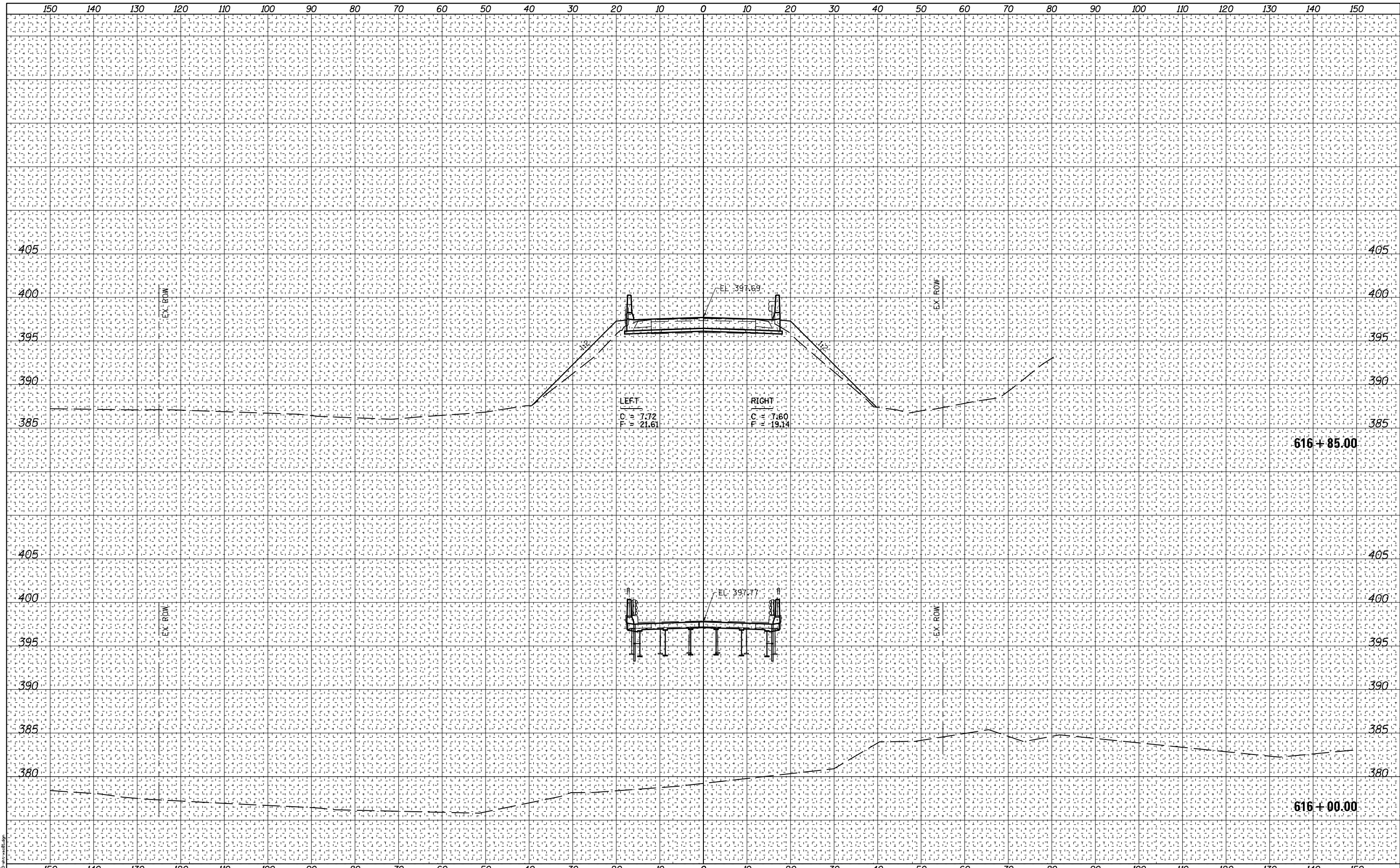
SCALE: AS SHOWN SHEET 5 OF 9 SHEETS STA. 614+62.00 TO STA. 615+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	62
				CONTRACT NO. 78083

ILLINOIS FED. AID PROJECT

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

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



PRINT DRIVER = L:\DLS\B&P\Plot9
 PLOT DATE = 10/13/2015
 PLOT TIME = 10:41:02 AM
 PLOT FILE = D:\DLS\B&P\Plot9.dwg



USER NAME = kah	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALE: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

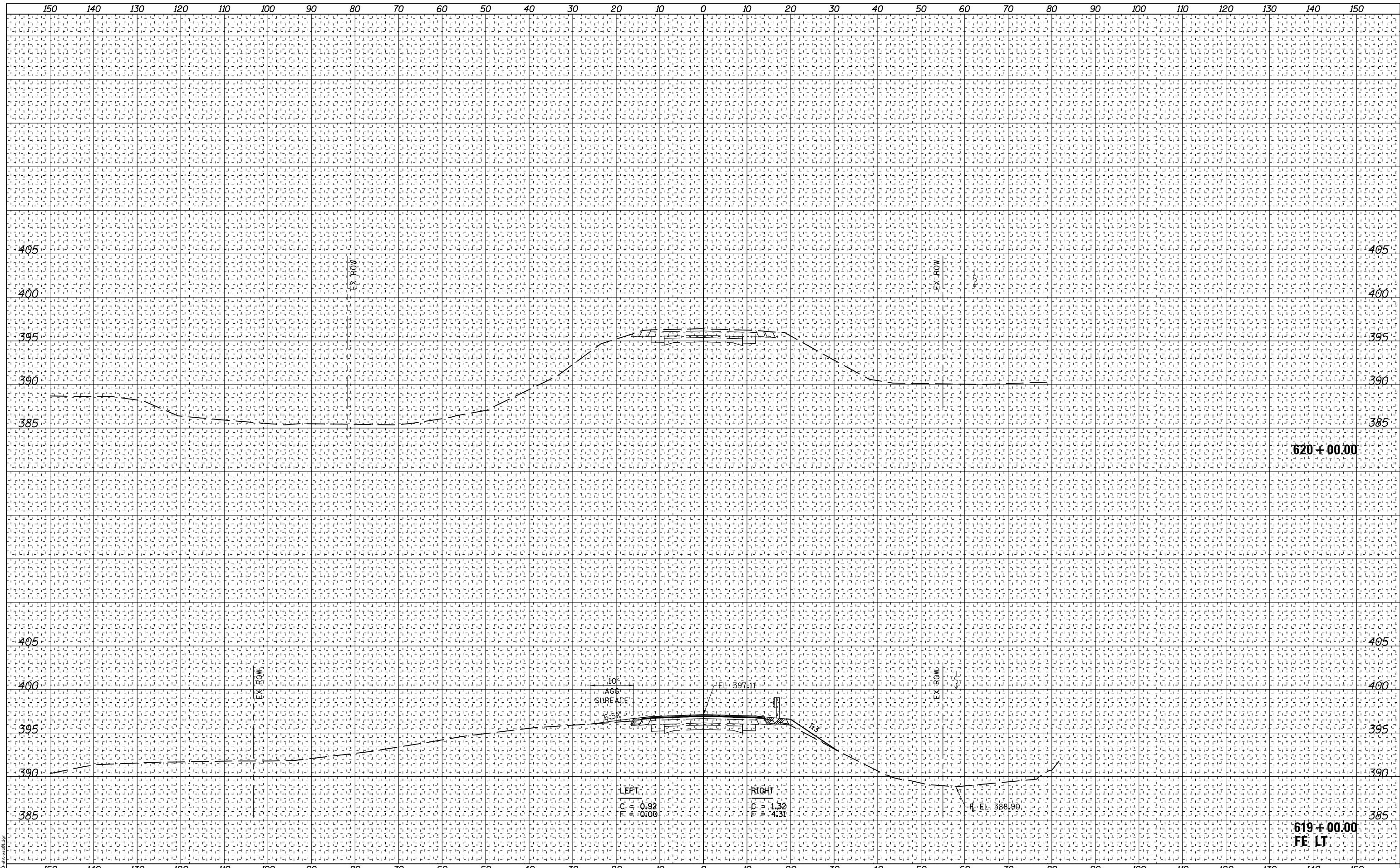
FAP 881 (US 45) CROSS SECTIONS

SCALE: AS SHOWN SHEET 6 OF 9 SHEETS STA. 616+00.00 TO STA. 616+85.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	63
				CONTRACT NO. 78083
ILLINOIS FED. AID PROJECT				

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

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



PRINT DRIVER: L:\DLS\B\B\1019
 PLOT DATE: 10/13/2015
 PLOT TIME: 10:13:01 AM
 FILE NAME: 1019.DWG



USER NAME = kah	DESIGNED - SKM	REVISED -
ESCA PROJECT NO. 1035.06	DRAWN - DWH	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	CHECKED - ELH	REVISED -
PLOT DATE = 10/13/2015	DATE - 08/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 881 (US 45) CROSS SECTIONS

SCALE: AS SHOWN SHEET 9 OF 9 SHEETS STA. 619+00.00 TO STA. 620+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	32B-1	SALINE	66	66
CONTRACT NO. 78083				
ILLINOIS FED. AID PROJECT				