

04-28-2017 LETTING ITEM 031

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(121BR-1)BR	JASPER	43	1
		ILLINOIS	CONTRACT NO. 74431	

D-97-011-10

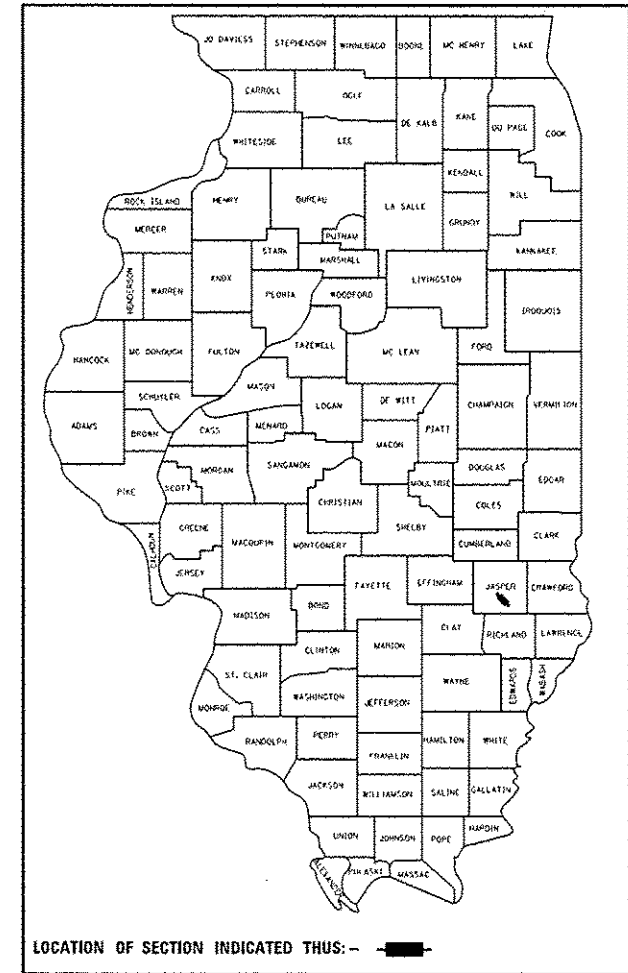
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

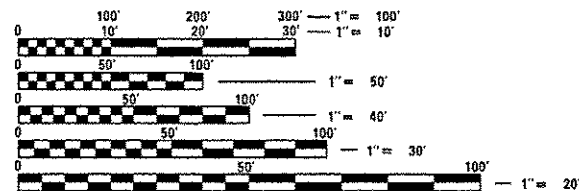
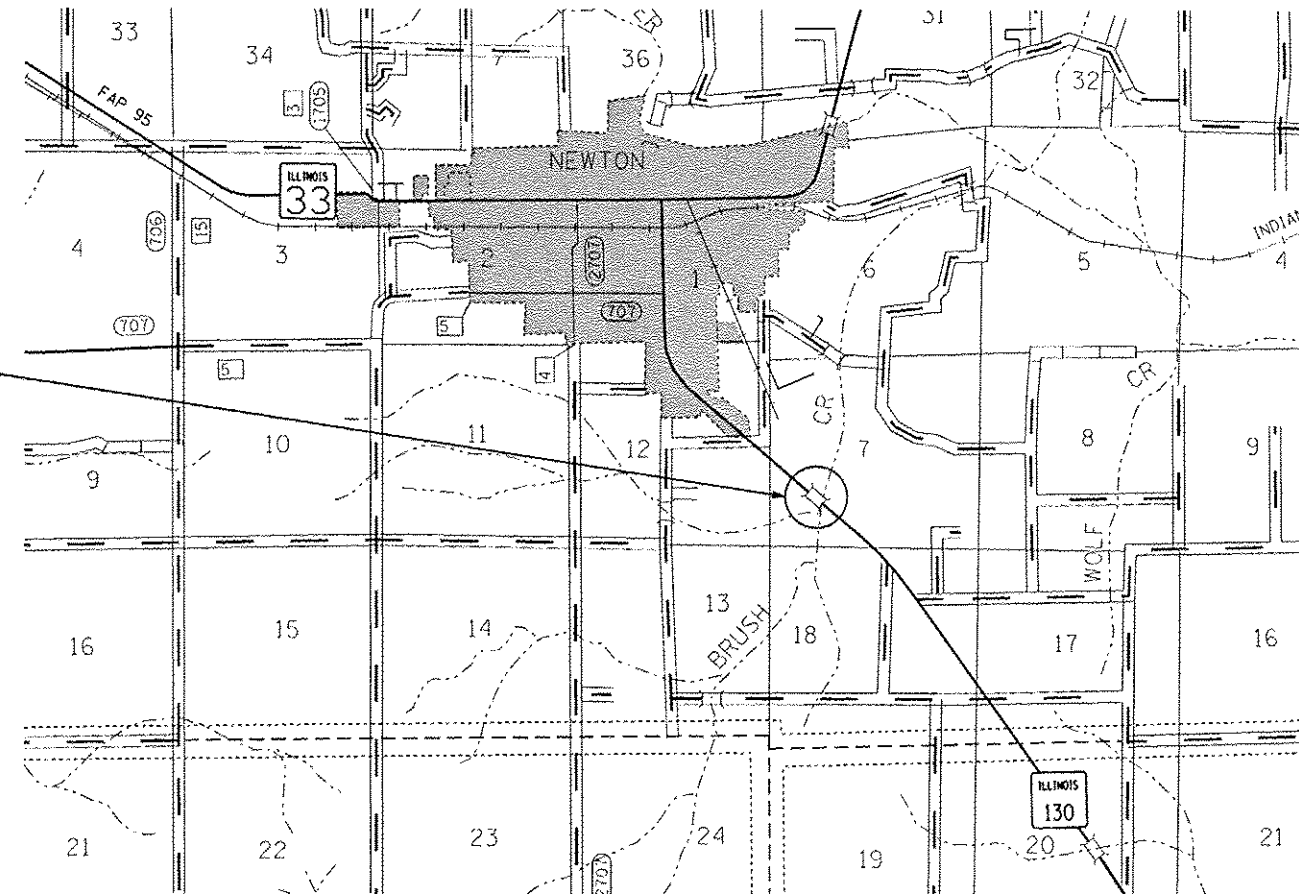
ADT (2013) = 4250

FAP ROUTE 116 (IL 130)
SECTION (121BR-1)BR
PROJECT STP-0116(063)
SUPERSTRUCTURE REPLACEMENT
JASPER COUNTY

C-97-034-10



LOCATION OF
PROPOSED IMPROVEMENT



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER MARK DAUGHERTY
PROJECT MANAGER BRIAN LEWIS

CONTRACT NO. 74431

GROSS LENGTH = 654 FT. = 0.124 MILE
NET LENGTH = 545 FT. = 0.103 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 3, 2017
Jeffrey H. South Jr.
REGIONAL ENGINEER

Mar 24 2017
Marcus M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24 2017
Michelle [Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF REPLACING THE EXISTING DECK BEAMS, PCC WEARING SURFACE, BRIDGE APPROACH PAVEMENTS, GUARDRAIL, AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO THE CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION OR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

SHORT TERM PAVEMENT MARKING ON THE MILLED SURFACE SHALL BE PAINT. ALL OTHER SHORT TERM PAVEMENT MARKINGS SHALL BE TAPE.

BASE COURSE WIDENING (SQ YD) SHALL INCLUDE ALL EXCAVATION FOR CONSTRUCTION OF THE WIDENING. THE WIDENING SHALL REMAIN IN PLACE AT THE CONCLUSION OF THE JOB.

INSTALLATION AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHOWN ON STANDARDS 701316 & 701321 WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE TRAFFIC CONTROL STANDARDS.

ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2 (SPECIAL) IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

RIGHT-OF-WAY MARKERS SHALL BE ERECTED WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKER WILL BE ERECTED 12 INCHES INSIDE THE NEW RIGHT-OF-WAY LINE.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICES FOR OTHER ITEMS IN THE CONTRACT.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE HMA SURFACE COURSE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	APPLICATION
HMA BINDER COURSE IL-19 N70	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	BASE COURSE WIDENING
HMA BINDER COURSE IL-19 N70	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	PAVEMENT CONNECTOR
HMA BINDER COURSE IL-19 N70	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	BOTTOM LIFT SHOULDERS
HMA LEVEL BINDER IL-9.5 N70	PG 64-22	4.0% @ N=70	IL - 9.5	N/A	LEVELING BINDER
HMA SURFACE COURSE IL-9.5 N70C	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	SURFACE, TOP LIFT SHOULDERS

INDEX OF SHEETS

SHEET NO	TITLE
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2	GENERAL NOTES, INDEX OF SHEETS
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8	SCHEDULES OF QUANTITIES
9-10	PLAN AND PROFILE SHEETS
11-14	STAGING SHEETS
15	RIGHT OF WAY
16-32	BRIDGE PLANS
33-43	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
630001-11	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
643001-02	SAND MODULE IMPACT ATTENUATORS
666001-01	RIGHT-OF-WAY MARKERS
668001-01	METHOD OF RESETTING U.S. GEOLOGIC SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
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
701316-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45 MPH
701321-16	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

RURAL

RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FEDERAL 20% STATE		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	48	48		
20200100	EARTH EXCAVATION	CU YD	53	53		
20300100	CHANNEL EXCAVATION	CU YD	1100	1100		
20400800	FURNISHED EXCAVATION	CU YD	502	502		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	276	276		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100		
28000400	PERIMETER EROSION BARRIER	FOOT	823	823		
28100109	STONE RIPRAP, CLASS A5	SQ YD	835	835		
28200200	FILTER FABRIC	SQ YD	835	835		
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	295	295		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	764	764		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	12	12		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	890	890		
40600990	TEMPORARY RAMP	SQ YD	87	87		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FEDERAL 20% STATE		
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	120	120		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	67	67		
44000100	PAVEMENT REMOVAL	SQ YD	107	107		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	136	136		
44004250	PAVED SHOULDER REMOVAL	SQ YD	175	175		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	340	340		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	136	136		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		
50102400	CONCRETE REMOVAL	CU YD	3.9	3.9		
50300225	CONCRETE STRUCTURES	CU YD	22.7	22.7		
50300260	BRIDGE DECK GROOVING	SQ YD	687	687		
50300300	PROTECTIVE COAT	SQ YD	727	727		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	108.8	108.8		

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	1121BR-1BR	Josper	43	3
CONTRACT NO. 74431			ILLINOIS FED. AID PROJECT	

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RURAL

RURAL

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014 80% FEDERAL 20% STATE		
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	4374	4374		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	35030	35030		
50800515	BAR SPLICERS	EACH	349	349		
50901050	STEEL RAILING, TYPE SM	FOOT	304	304		
51500100	NAME PLATES	EACH	1	1		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7	7		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	LSUM	1	1		
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1		
	701316					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014 80% FEDERAL 20% STATE		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1		
	701321					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	LSUM	1	1		
	701201					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	2015	2015		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	168	168		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	56	56		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	525	525		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425	425		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		

* SPECIALTY ITEM

FILE NAME *	USER NAME = staffemk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 1/8" = 1' / in.	DATE -	REVISED -					CONTRACT NO. 74431				
	PLOT DATE = 2/3/2017							ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.			

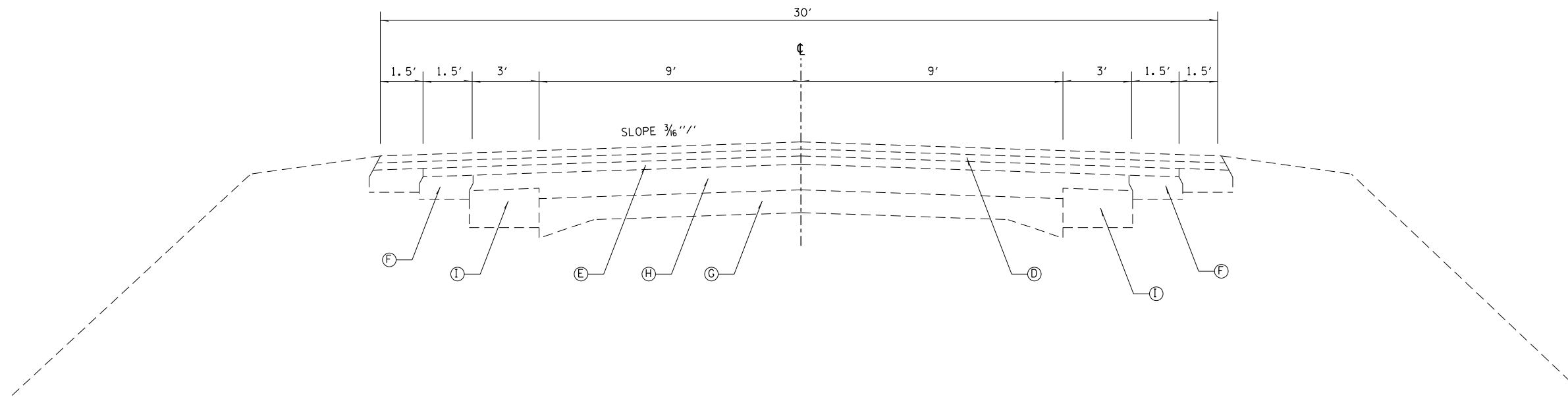
RURAL

RURAL

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FEDERAL 20% STATE		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2015	2015		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10		
* A2005820	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	487	487		
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	1	1		
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	60	60		
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	6	6		
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	39	39		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	28	28		
Z0003617	REMOVAL OF EXISTING SUB-STRUCTURES	EACH	1	1		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	107	107		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 80% FEDERAL 20% STATE		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	3	3		

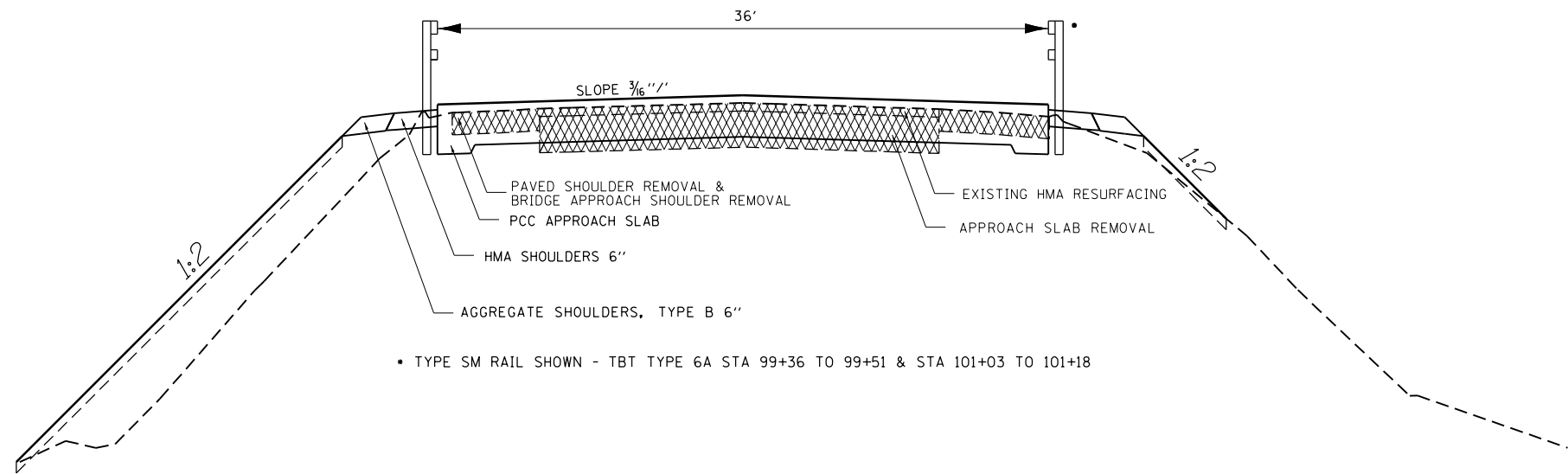
* SPECIALTY ITEM



STA 50+89.10 TO 99+80.50
 STA 101+02.50 TO 132+03.20

- D. EXISTING SURFACE COURSE (VARIABLE DEPTH)
- E. EXISTING BITUMINOUS RESURFACING (3")
- F. EXISTING BITUMINOUS SHOULDERS (CONSTRUCTED IN ACCORDANCE WITH STD. 2239 EXCEPT WIDTH IS 18")
- G. EXISTING PCC PAVEMENT (9"-6"-9")
- H. EXISTING BITUMINOUS RESURFACING (5"-7")
- I. EXISTING PCC WIDENING (9")

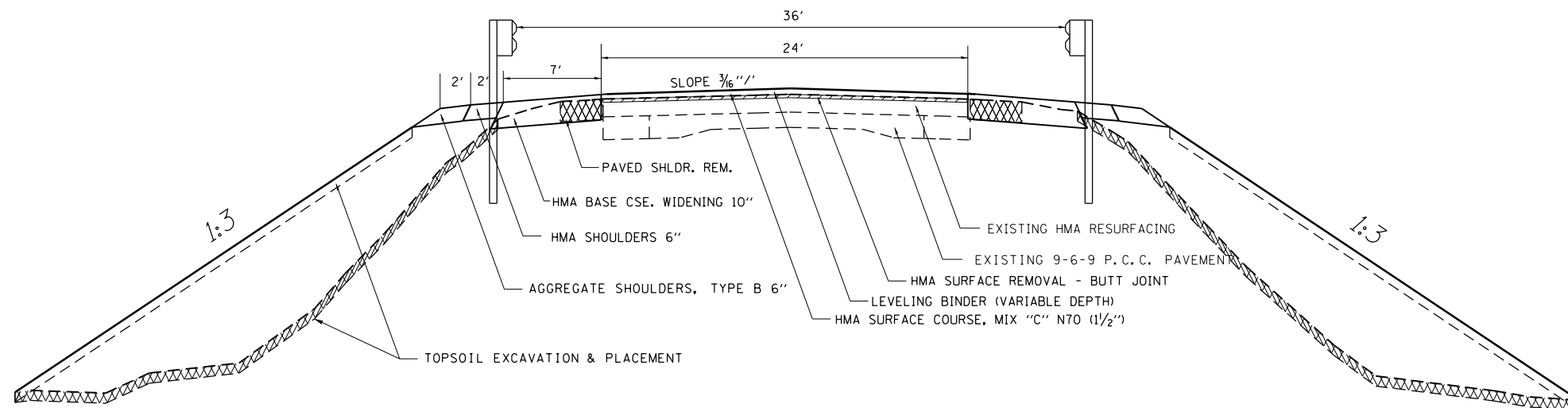
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 74431				
	PLOT DATE = 8/10/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



• TYPE SM RAIL SHOWN - TBT TYPE 6A STA 99+36 TO 99+51 & STA 101+03 TO 101+18

IL 130

STA 99+36.33 TO STA 99+66.33
 STA 100+87.99 TO STA 101+17.99



IL 130

STA 98+38 TO STA 99+36.33
 STA 101+17.99 TO STA 102+21

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/10/2016	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(121BR-1)BR	Jasper	43	7
CONTRACT NO. 74431			ILLINOIS FED. AID PROJECT	

GUARDRAIL SCHEDULE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL, TYPE 6A	GUARDRAIL REFLECTOR, TYPE A	TERMINAL MARKER, DIRECT APPLIED
	FT	EACH	EACH	EACH	EACH
RT STA 98+07 TO STA 98+57	50	1		2	1
RT STA 98+57 TO STA 99+07			1	1	
RT STA 99+07 TO STA 99+51					
LT STA 98+44 TO STA 98+94	12.5	1		1	1
LT STA 98+94 TO STA 99+07				1	
LT STA 99+07 TO STA 99+51			1	1	
LT STA 101+03 TO STA 101+47			1	1	
LT STA 101+47 TO STA 101+97	50			2	
LT STA 101+97 TO STA 102+47		1			1
RT STA 101+03 TO STA 101+47			1	1	
RT STA 101+47 TO STA 101+60	12.5			1	
RT STA 101+60 TO STA 102+10		1			1
TOTALS	125	4	4	10	4

PAVED SHOULDER REMOVAL	
LT STA 97+87 TO 99+51	55 SQ YD
LT STA 101+01 TO 102+66	55 SQ YD
RT STA 98+40 TO 99+30	30 SQ YD
RT STA 101+24 TO 102+29	35 SQ YD
TOTAL	175 SQ YD

HMA BASE COURSE WIDENING 10"	
LT STA 97+87 TO 99+51	116 SQ YD
LT STA 101+24 TO 102+66	127 SQ YD
RT STA 98+40 TO 99+30	70 SQ YD
RT STA 101+24 TO 102+29	82 SQ YD
TOTAL	295 SQ YD

REMOVE RIGHT OF WAY MARKERS		
STA 96+06	40' RT	1 EACH
TOTAL		1 EACH

PAVEMENT REMOVAL	
STA 99+26 TO 99+46	53.5 SQ YD
STA 101+08 TO 101+28	53.5 SQ YD
TOTAL	107 SQ YD

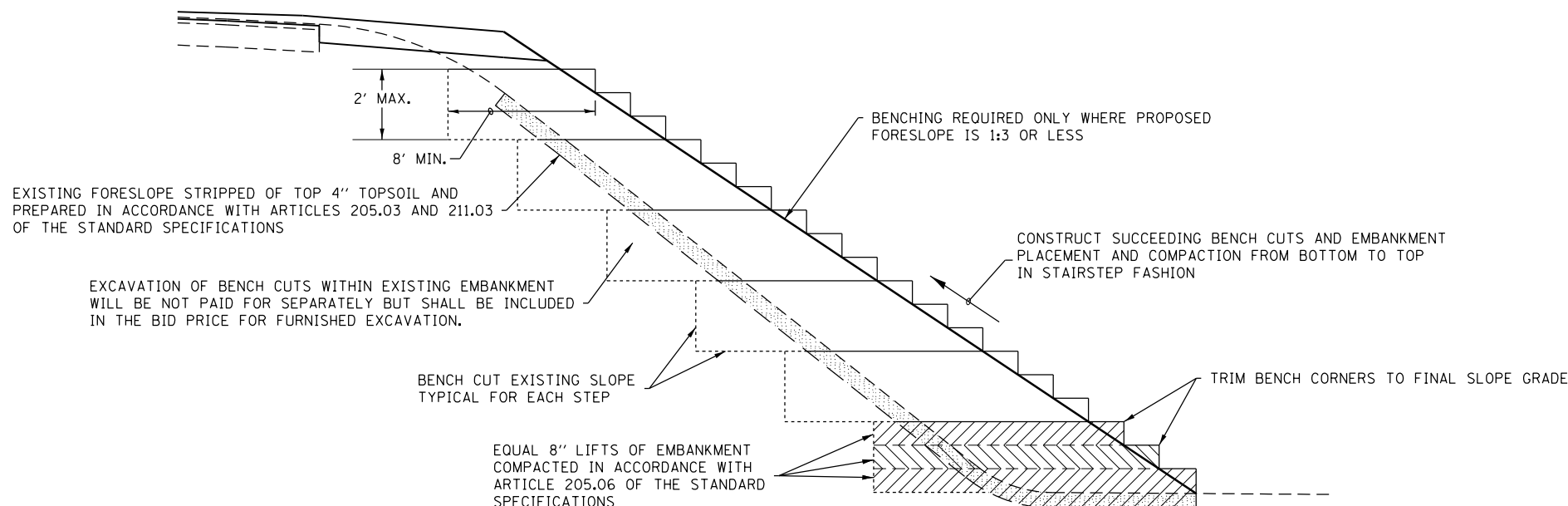
EARTHWORK SCHEDULE					
LOCATION	EARTH EXCAVATION CU.YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE CU.YD.	EMBANKMENT CU.YD.	EARTHWORK BALANCE	TOPSOIL EXCAVATION AND PLACEMENT
				WASTE(+) SHORTAGE(-) CU.YD.	CU.YD.
NORTH SIDE OF BRIDGE CHANNEL	27	20	625	-605	147
SOUTH SIDE OF BRIDGE	1100	825	742	825	129
TOTALS	1153	865	1367	-502	276

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
RT STA 101+88	48 UNIT

FURNISHING AND ERECTING RIGHT OF WAY MARKERS		
STA 96+00	40' LT	1 EACH
STA 98+00	64' LT	1 EACH
STA 98+00	60' RT	1 EACH
STA 102+50.12	64' LT	1 EACH
STA 103+00	60' RT	1 EACH
STA 104+74.80	50' RT	1 EACH
STA 104+66.11	40' RT	1 EACH
TOTAL		7 EACH

PERIMETER EROSION BARRIER	
RT STA 97+50 TO 99+65	215 FEET
LT STA 97+50 TO 99+61	211 FEET
LT STA 101+00 TO 103+00	200 FEET
RT STA 101+03 TO 103+00	197 FEET
TOTAL	823 FEET

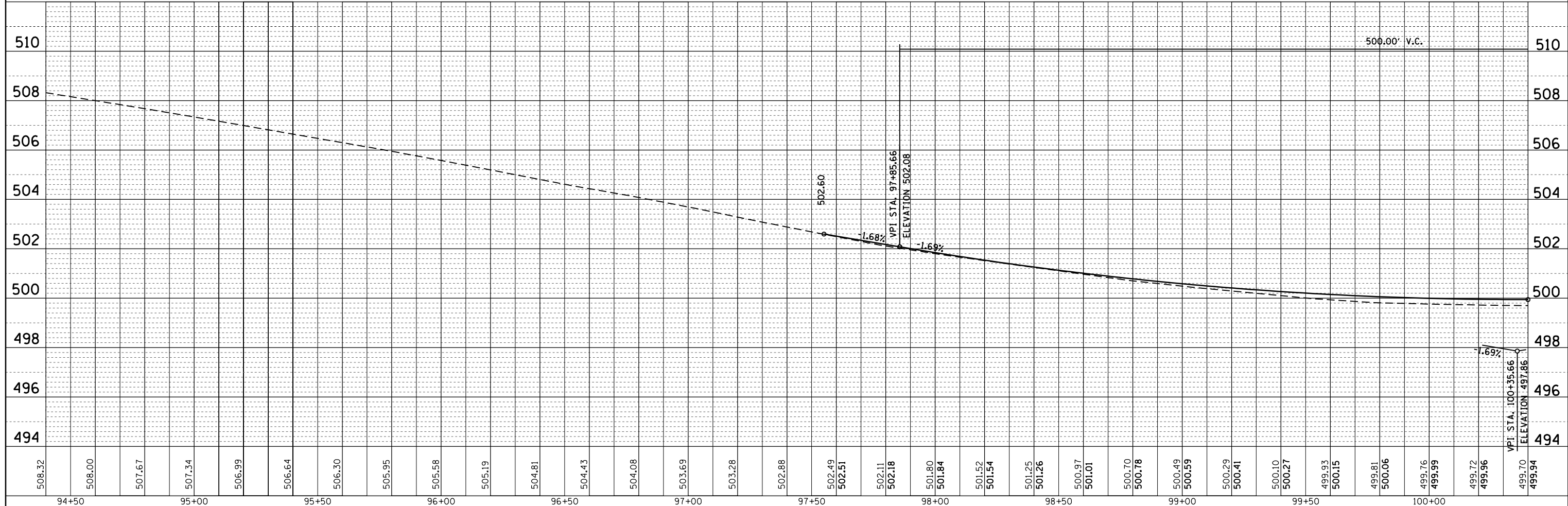
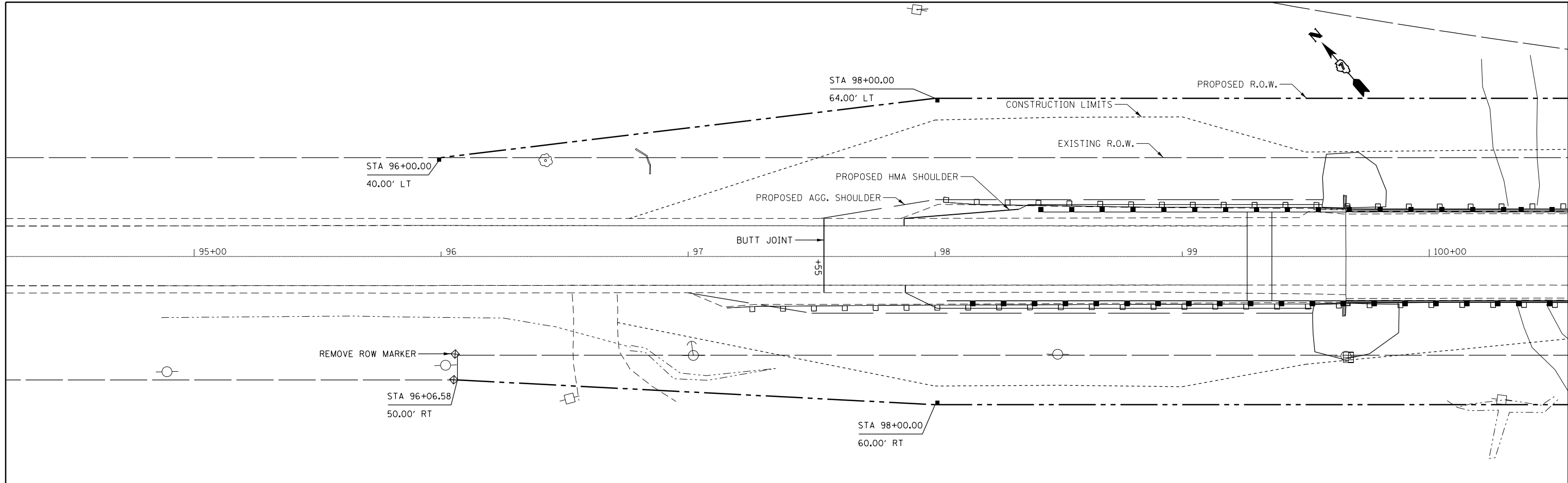
HMA SURFACE REMOVAL - BUTT JOINT	
STATION	MILLING DEPTH
97+60	0.10'
97+70	0.08'
97+80	0.06'
97+90	0.08'
98+00	0.08'
98+10	0.10'
98+20	0.11'
98+30	0.11'
98+40	0.11'
98+50	0.10'
98+60	0.09'
98+70	0.07'
98+80	0.04'
98+90	0.04'
99+00	0.03'
99+10	0.02'
BRIDGE OMISSION	
102+30	0.02'
102+40	0.04'
102+50	0.05'
102+60	0.05'
102+70	0.05'
102+80	0.05'
102+90	0.09'



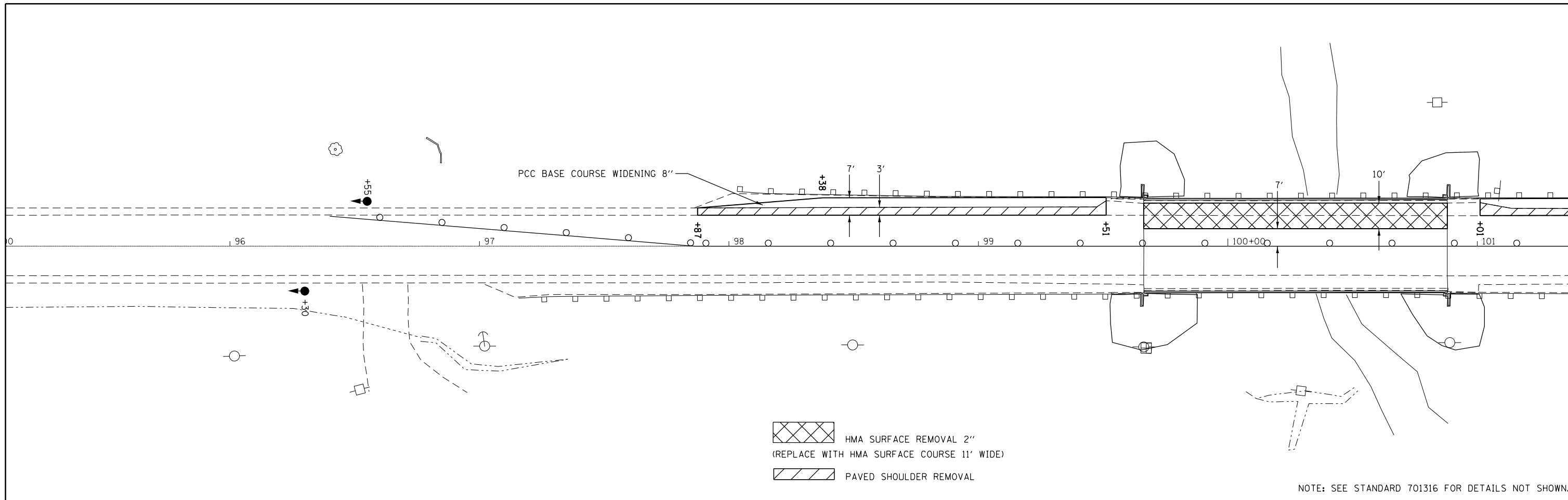
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(NOT TO SCALE)

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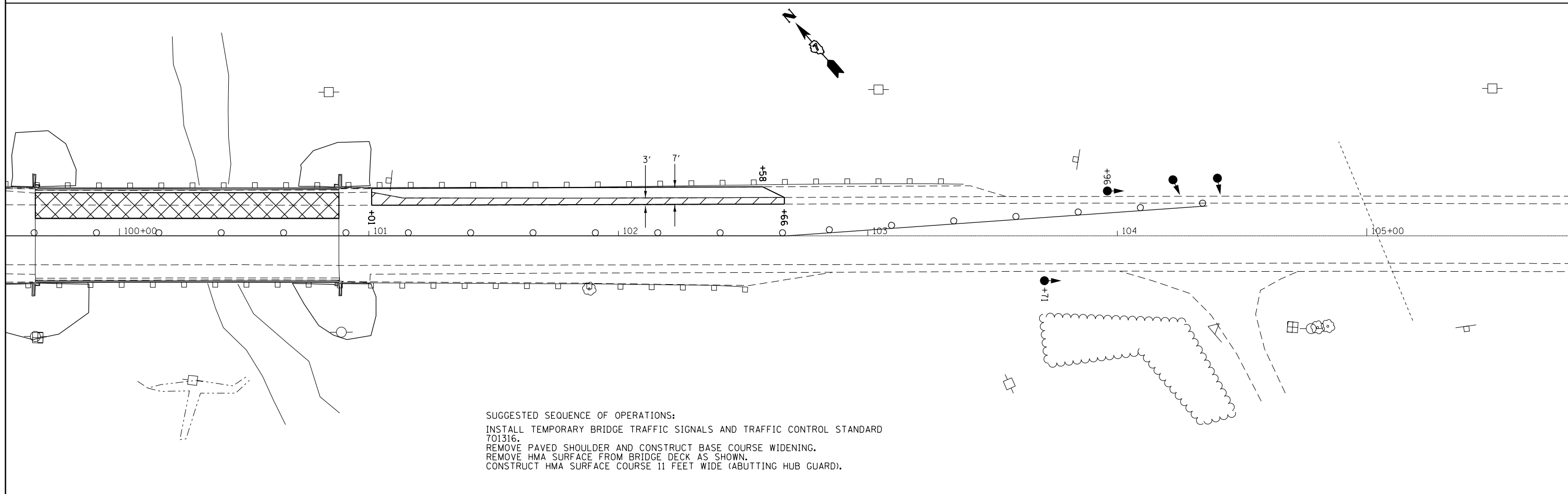
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NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	FILE NAME	



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN & PROFILE		F.A.P. RT. 116	SECTION (121BR-1BR)	COUNTY Jasper	TOTAL SHEETS 43	SHEET NO. 9
Default	PLOT DATE = 8/10/2016	CHECKED -	REVISOR -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 74431		ILLINOIS FED. AID PROJECT	

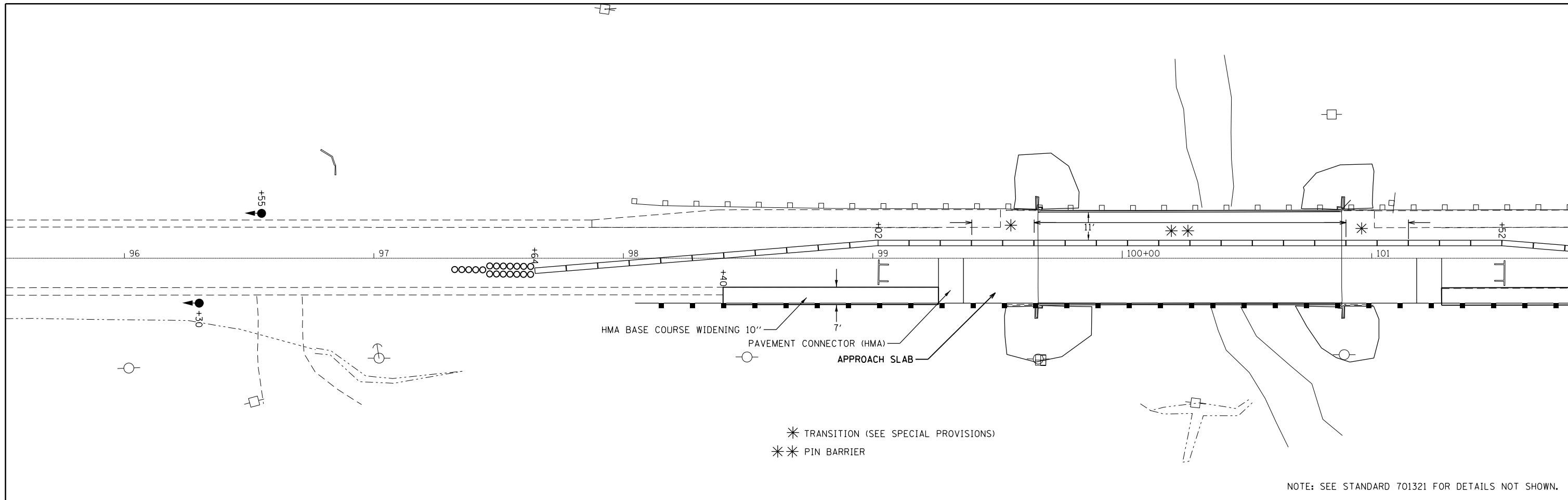


NOTE: SEE STANDARD 701316 FOR DETAILS NOT SHOWN.

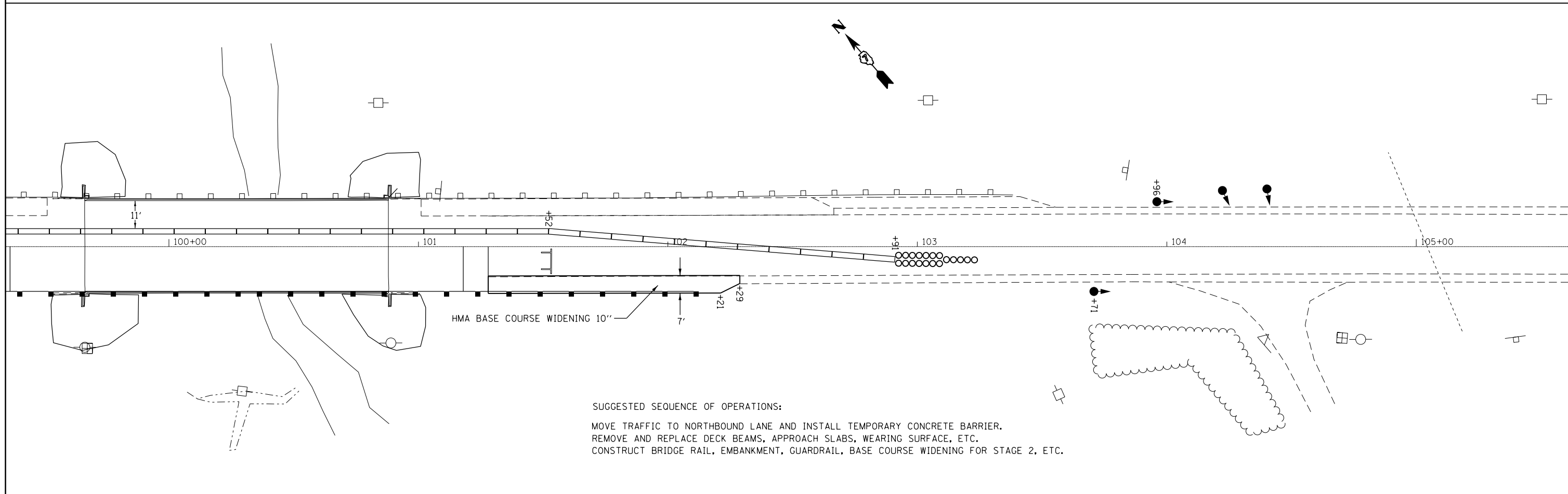


SUGGESTED SEQUENCE OF OPERATIONS:
 INSTALL TEMPORARY BRIDGE TRAFFIC SIGNALS AND TRAFFIC CONTROL STANDARD 701316.
 REMOVE PAVED SHOULDER AND CONSTRUCT BASE COURSE WIDENING.
 REMOVE HMA SURFACE FROM BRIDGE DECK AS SHOWN.
 CONSTRUCT HMA SURFACE COURSE 11 FEET WIDE (ABUTTING HUB GUARD).

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRE-STAGE				F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 7\Projects\74431\Drawings\CABsheets\0774431-shr-staging.dwg		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	116	(121BR-1)BR	Jasper	43	11
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 74431			ILLINOIS FED. AID PROJECT			
	PLOT DATE = 8/10/2016	DATE -	REVISED -												



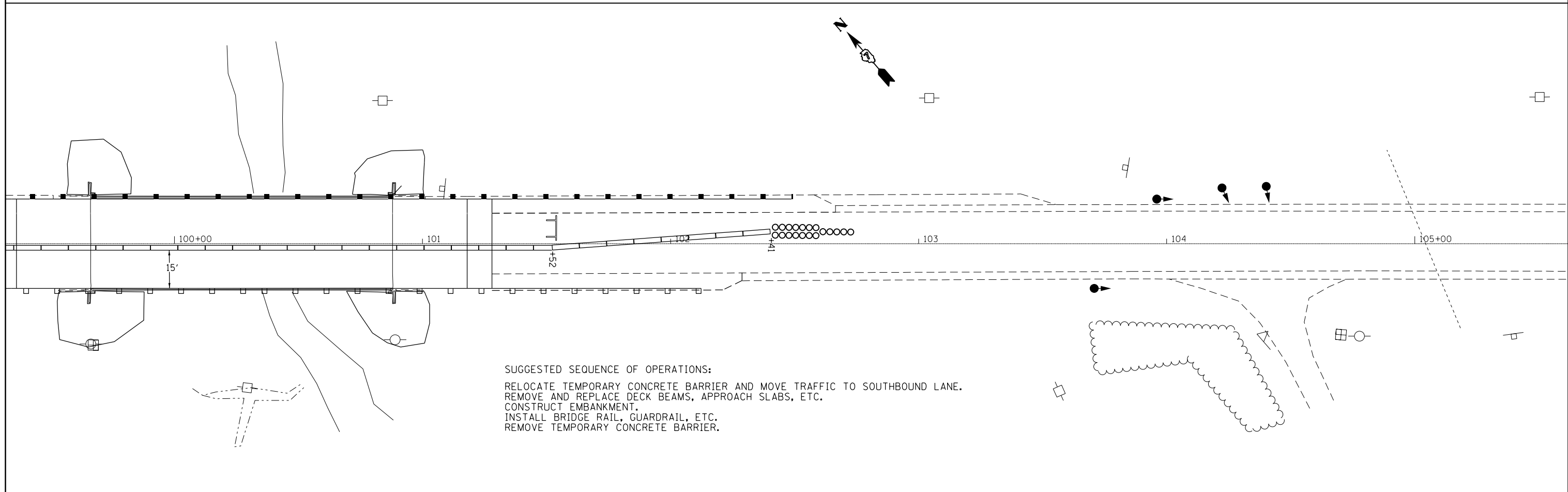
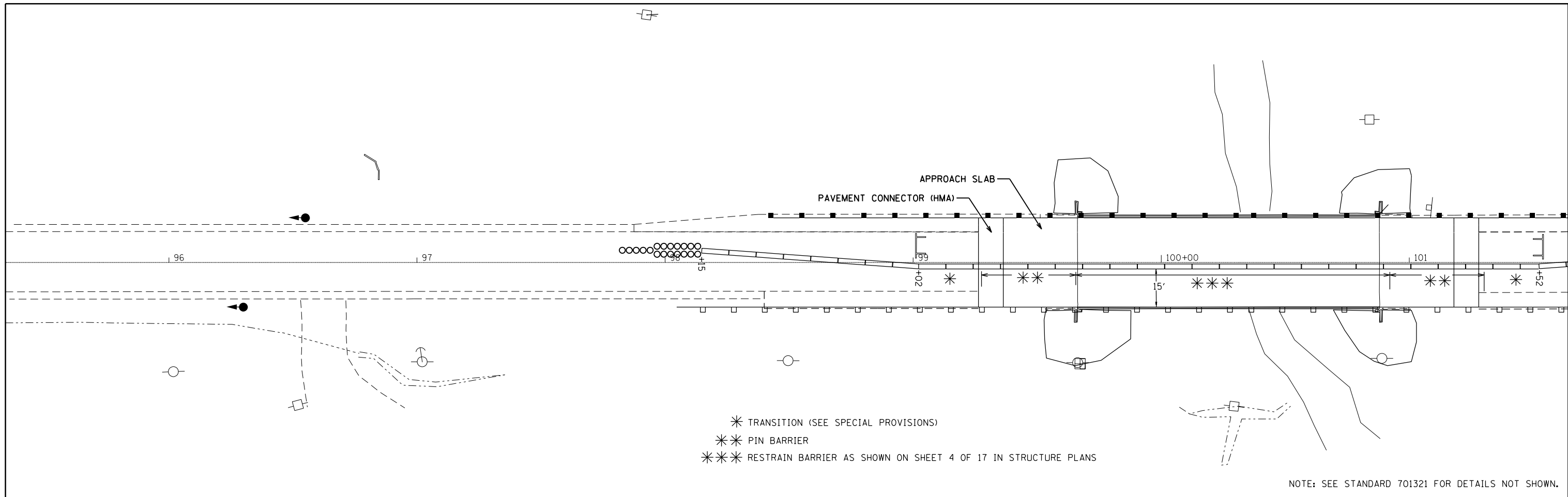
NOTE: SEE STANDARD 701321 FOR DETAILS NOT SHOWN.



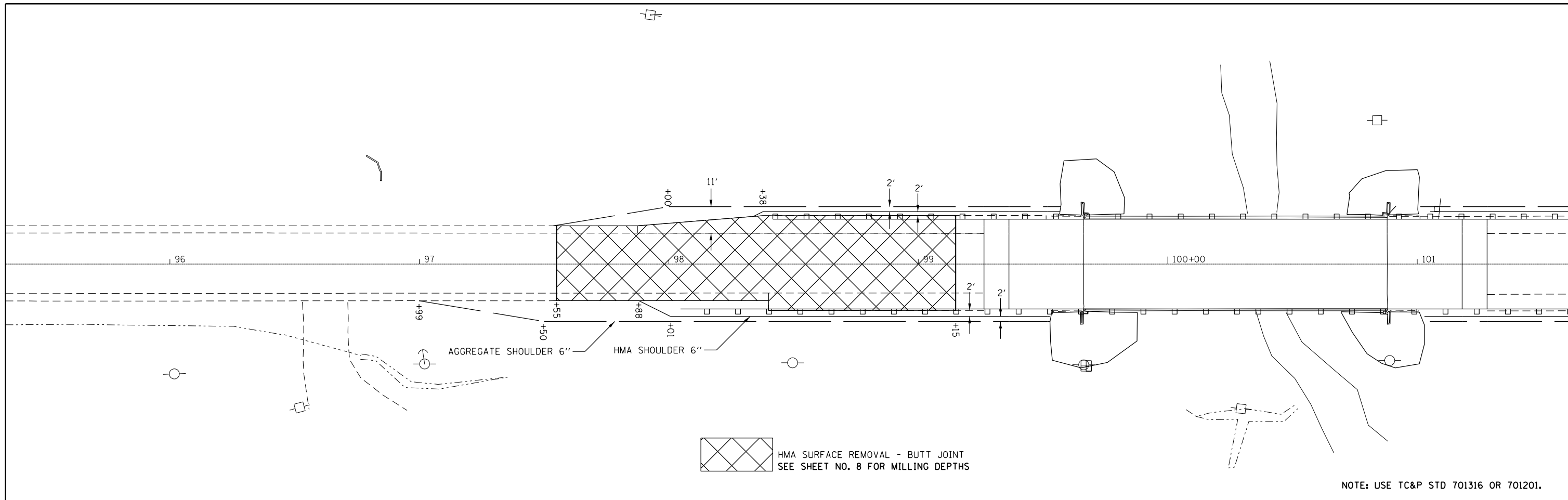
SUGGESTED SEQUENCE OF OPERATIONS:
 MOVE TRAFFIC TO NORTHBOUND LANE AND INSTALL TEMPORARY CONCRETE BARRIER.
 REMOVE AND REPLACE DECK BEAMS, APPROACH SLABS, WEARING SURFACE, ETC.
 CONSTRUCT BRIDGE RAIL, EMBANKMENT, GUARDRAIL, BASE COURSE WIDENING FOR STAGE 2, ETC.

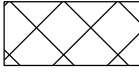
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pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74431\Drawings\CADsheets\0774431-shr-staging.dwg		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	116	(121BR-1)BR	Jasper	43	12
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	PLOT DATE = 8/10/2016	DATE -	REVISED -												

ILLINOIS FED. AID PROJECT

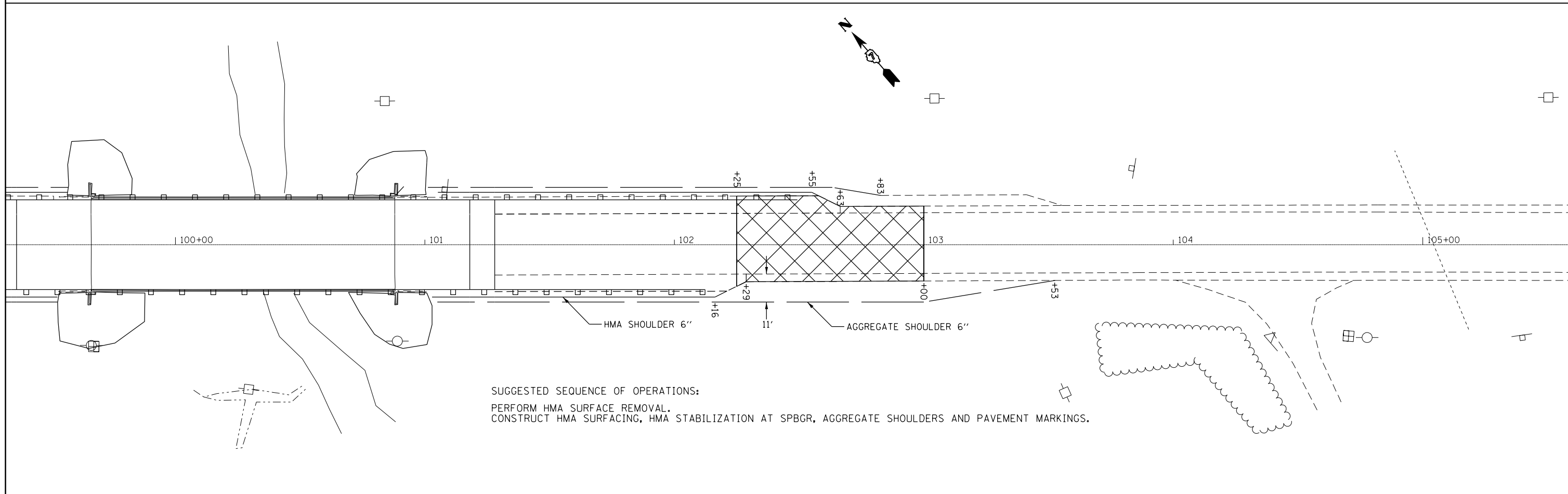


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Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74431				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/10/2016				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		




 HMA SURFACE REMOVAL - BUTT JOINT
 SEE SHEET NO. 8 FOR MILLING DEPTHS

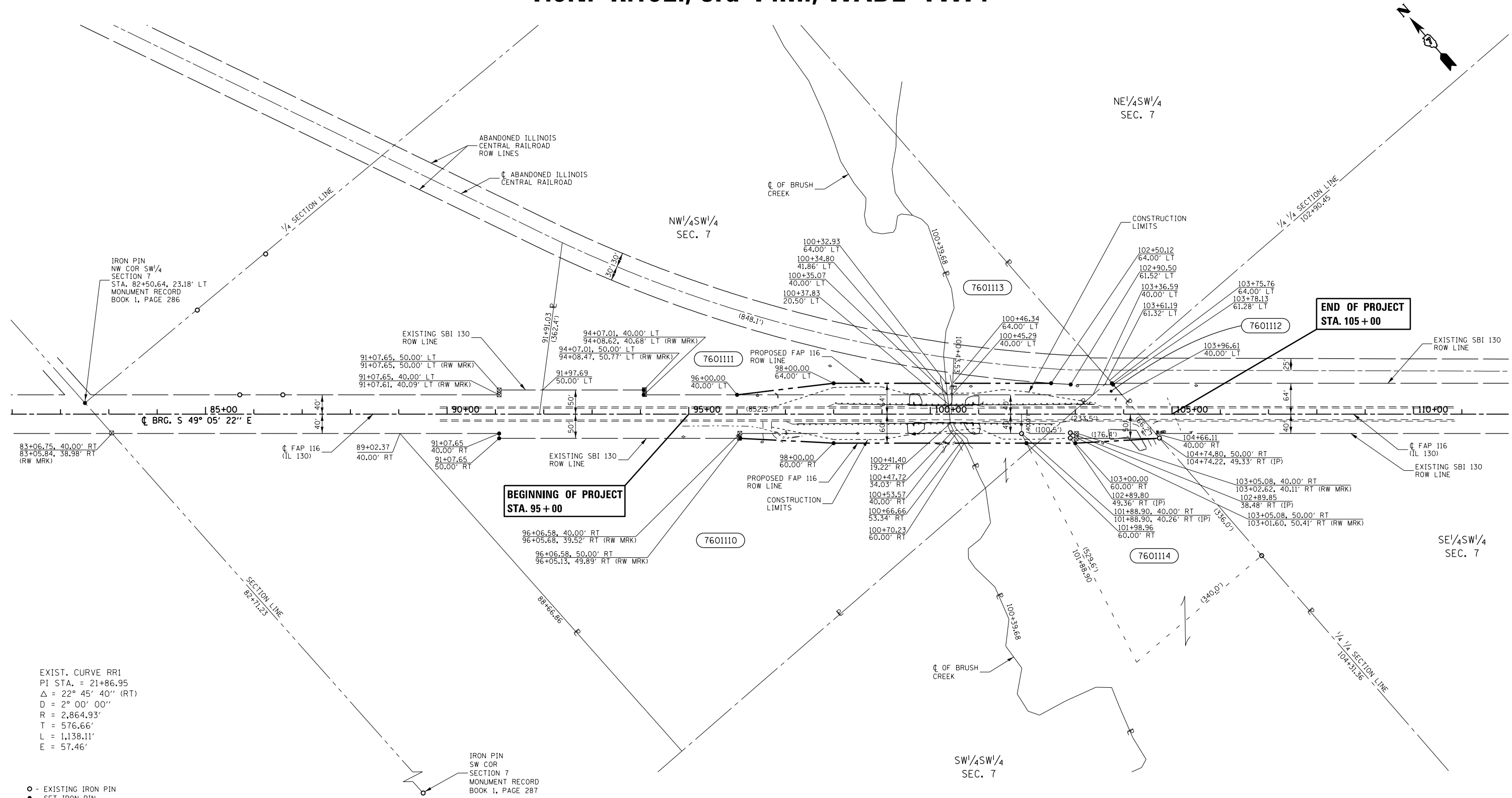
NOTE: USE TC&P STD 701316 OR 701201.



SUGGESTED SEQUENCE OF OPERATIONS:
 PERFORM HMA SURFACE REMOVAL.
 CONSTRUCT HMA SURFACING, HMA STABILIZATION AT SPBGR, AGGREGATE SHOULDERS AND PAVEMENT MARKINGS.

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POST-STAGE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 74431				
	PLOT DATE = 8/10/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

T.6N.-R.10E., 3rd P.M., WADE TWP.



EXIST. CURVE RR1
 PI STA. = 21+86.95
 $\Delta = 22^\circ 45' 40''$ (RT)
 $D = 2^\circ 00' 00''$
 $R = 2,864.93'$
 $T = 576.66'$
 $L = 1,138.11'$
 $E = 57.46'$

- - EXISTING IRON PIN
- - SET IRON PIN
- ▲ - EXISTING STONE
- ▣ - EXISTING ROW MARKER
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(07)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7601110	JOSEPH G. BIGARD	0.187 AC.	1.726 AC.		9.584 AC.								
7601111	CENTRAL ILLINOIS PUBLIC SERVICE CO.	0.191 AC.	0.829 AC.		2.548 AC.								
7601112	MICHAEL J. AND TERESA L. ANTEY	0.019 AC.	0.092 AC.		33.561 AC.								
7601113	JOSEPH A. & MARY BERGBOWER, TRUSTEES	0.169 AC.	0.253 AC.		1.416 AC.								
7601114	CHARLES E. AND MARY EVELYN DHOM	0.130 AC.	0.410 AC.		15.654 AC.								

FILE NAME D774431-sht-rowplan.dgn	USER NAME = steffernik	DESIGNED - JMD	REVISED -
		DRAWN - JMD	REVISED -
		CHECKED - JMD	REVISED -
		DATE - 01/26/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT	JOB NO. R-97-001-16
SCALE: 1" = 100'	STA. 82+00.00 TO STA. 111+00.00
SHEET NO. 2 OF 2 SHEET	

F.A.P. RTE. 116	SECTION (121BR-1)BR	COUNTY JASPER	TOTAL SHEETS 43	SHEET NO. 15
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74431				

Benchmarks: Brass disk on Northeast wingwall, Sta. 100+88.5, 20 ft. Lt., Elev. 500.14
 Railroad spike in South side of power pole, North side of IL Rte. 130, 240' NW of bridge, Elev. 490.78

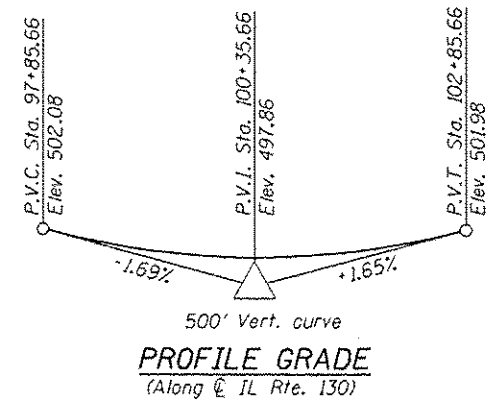
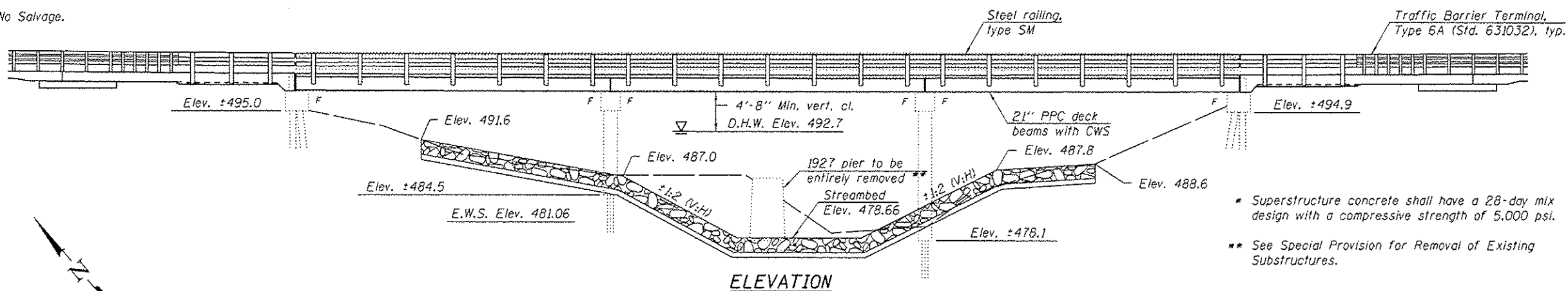
Existing Structure: S.N. 040-0018 built in 1982 as FA 116, Section 121BR-1 at Sta. 100+41.5 (Surveyed sta. 100+27.16). The existing structure consists of three-span PPC deck beam superstructure with a two-inch bituminous wearing surface and waterproofing membrane supported by pile bent piers and abutments founded on steel H-piles. The back-to-back abutment length is 124'-5 1/2" and the out-to-out deck width is 38'-0". Traffic is to be maintained using stage construction.

No Salvage.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims
 1995 Seismic Retrofitting Manual for Highway Bridges FHWA-RD-94/052

Notes:
 Location of new dowel rods shall be located to miss existing dowel rod locations.



DESIGN STRESSES

FIELD & EXISTING UNITS

- f'c = 3,500 psi (field)
- f'c = 4,000 psi *(superstructure concrete)
- f'c = 3,500 psi (existing)
- f'c = 5,000 psi (wearing surface)
- fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

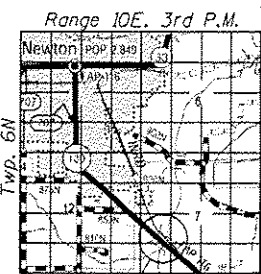
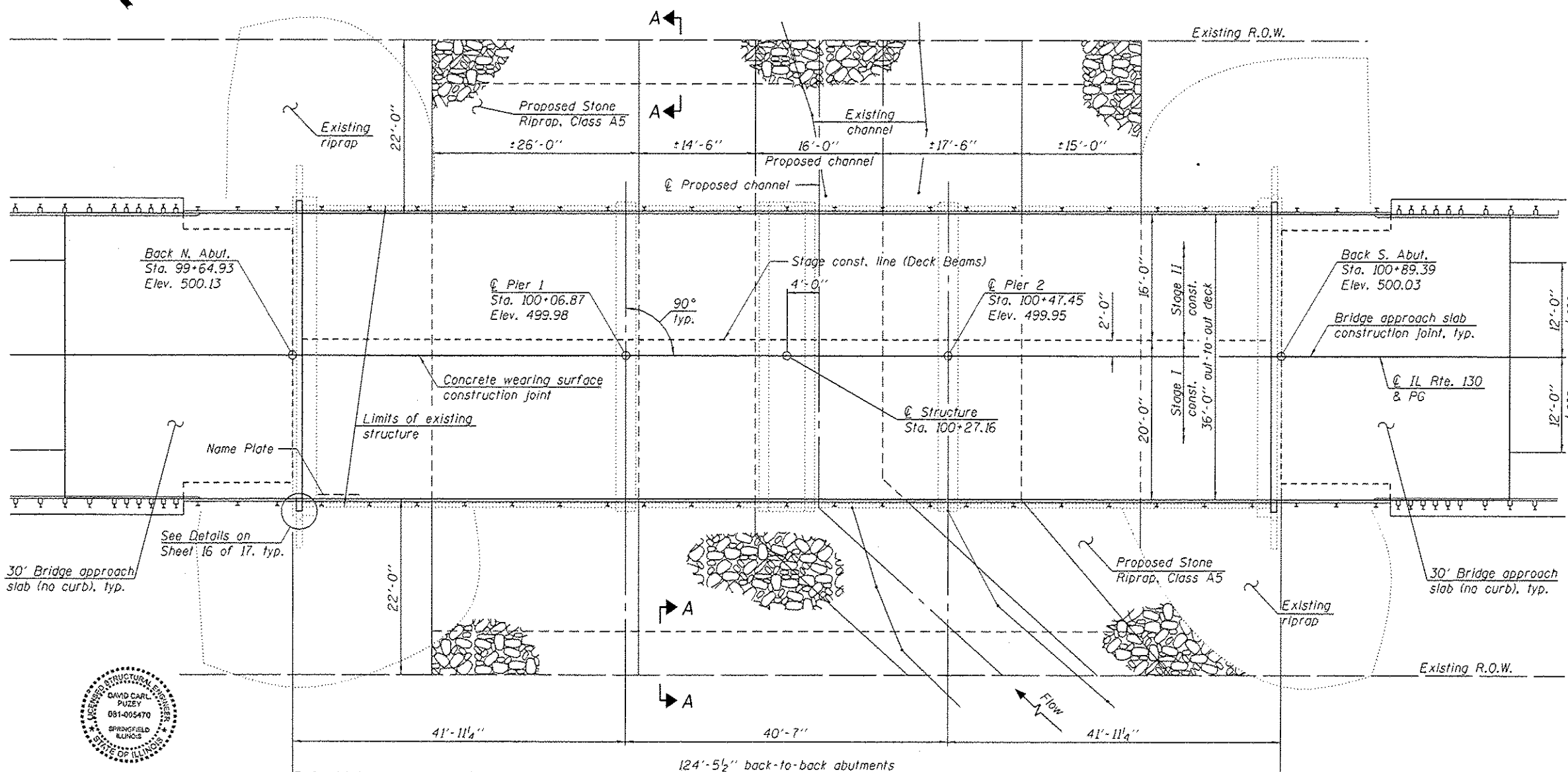
- f'c = 6,000 psi
- f'ci = 5,000 psi
- fpu = 270,000 psi (1/2" φ low lax strands)
- fpbt = 201,960 psi (1/2" φ low lax strands)

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface

SEISMIC DATA

Seismic Performance Category (SPC) = B
 Bedrock Acceleration Coefficient (A) = 0.076
 Site Coefficient (S) = 1.5



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 130 OVER BRUSH CREEK
F.A.P. RTE. 116 - SEC. 121-BR-1
JASPER COUNTY
STATION 100+27.16
STRUCTURE NO. 040-0018



EXPIRES 11-30-2018

DESIGNED - <i>David Carl Puzey</i>	EXAMINED - <i>John F. Schupp</i>	DATE - 3-10-2017
CHECKED - <i>John F. Schupp</i>	PASSED - <i>David Carl Puzey</i>	REVISOR
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - <i>IP/JOV/ERA</i>		

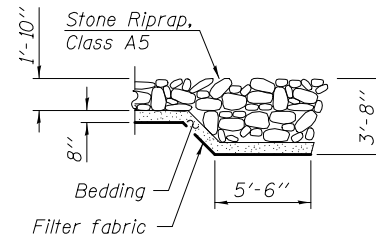
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	16
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

- 1 - General Plan and Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Concrete Barrier for Stage Construction
- 5 - Top of Slab Elevations
- 6-7 - Top of Approach Slab Elevations
- 8-9 - Superstructure Details
- 10-11 - 21" x 48" PPC Deck Beam Details
- 12-13 - Bridge Approach Slab Details
- 14 - Steel Railing, Type SM with Concrete Wearing Surface
- 15 - Abutment Removal and Pier Repairs
- 16 - Wingwall Details
- 17 - Bar Splicer Assembly and Mechanical Splicer Details



SECTION A-A

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
 Repair of the pier and abutment caps shall be completed prior to placement of the new deck beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		835	835
Filter Fabric	Sq. Yd.		835	835
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		3.9	3.9
Concrete Structures	Cu. Yd.		22.7	22.7
Concrete Superstructure (Approach Slab)	Cu. Yd.	108.8		108.8
Bridge Deck Grooving	Sq. Yd.	687		687
Protective Coat	Sq. Yd.	727		727
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	4374		4374
Reinforcement Bars, Epoxy Coated	Pound	35,000	30	35,030
Bar Splicers	Each	269	80	349
Steel Railing, Type SM	Foot	304		304
Name Plates	Each	1		1
Concrete Wearing Surface, 5"	Sq. Yd.	487		487
Asbestos Bearing Pad Removal	Each		28	28
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		3	3

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				
	N. Abut.	Pier 1	Pier 2	S. Abut.	Item 113
Q100	495.0	474.5	463.5	494.9	7
Q500	495.0	472.5	460.5	494.9	
Design	495.0	484.5	478.1	494.9	
Check	495.0	484.5	478.1	494.9	

WATERWAY INFORMATION

Proposed Low Grade Elev. 499.95 @ Sta. 100+50
 Drainage Area = 9.27 sq. mi. Existing Low Grade Elev. 499.69 @ Sta. 100+50

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	2390	543		491.2	0.5		491.6	
Design	50	3910	594		492.7	0.8		493.5	
Base	100	4600	652		493.3	1.0		494.3	
Overtopping									
Max. Calc.	500	6320	788		494.6	1.5		496.1	

10 Year velocity through existing bridge = 4.40 ft/s

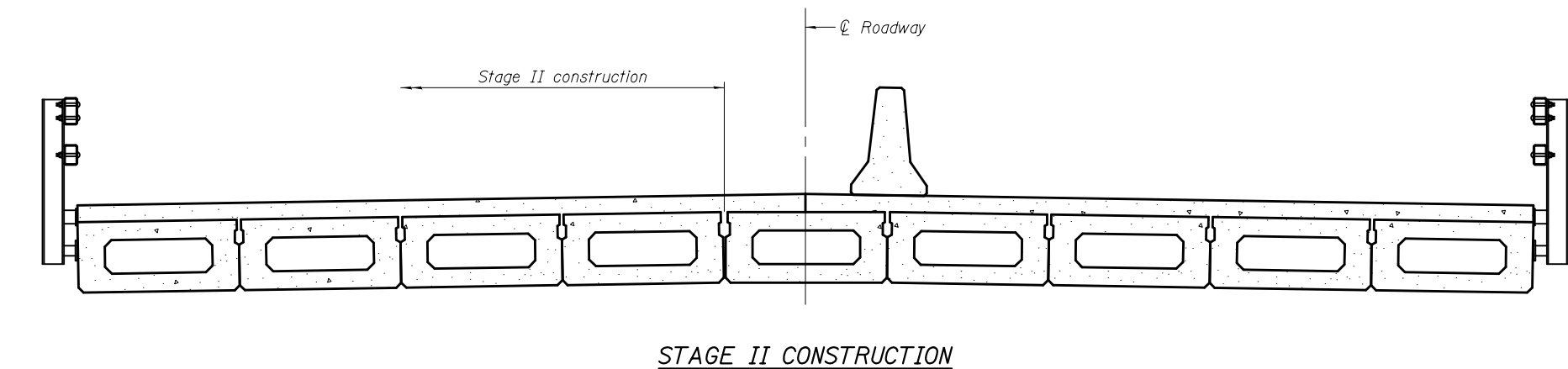
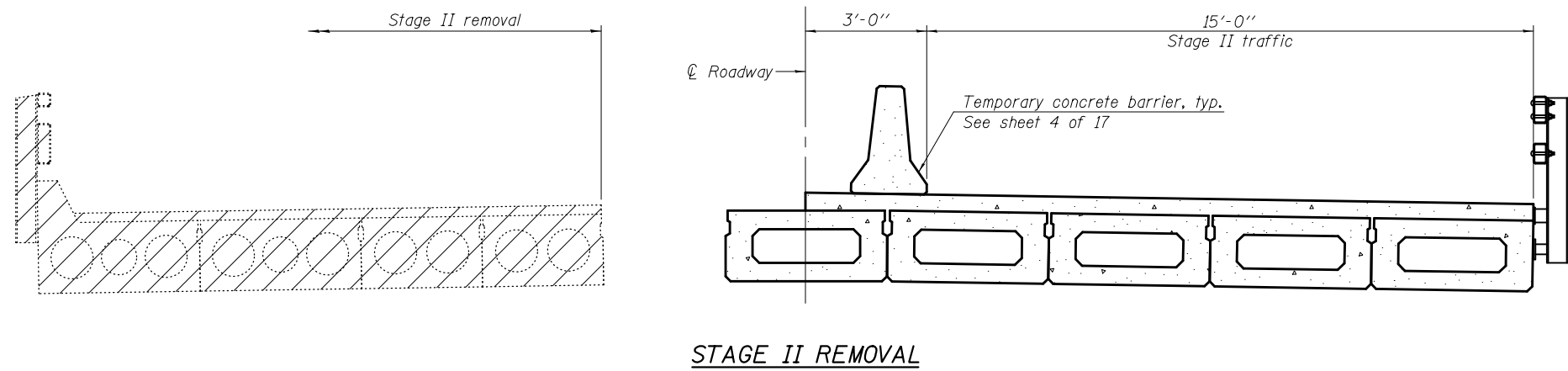
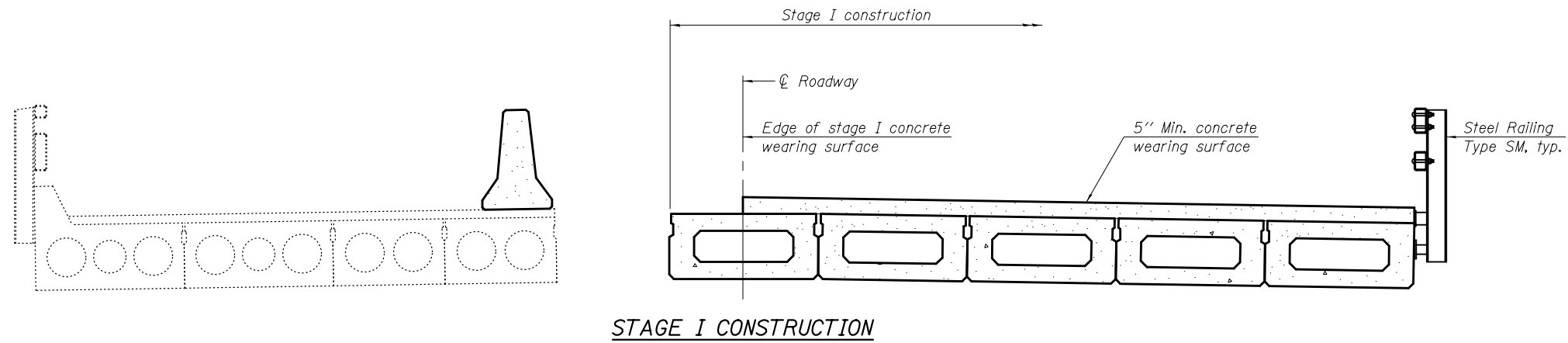
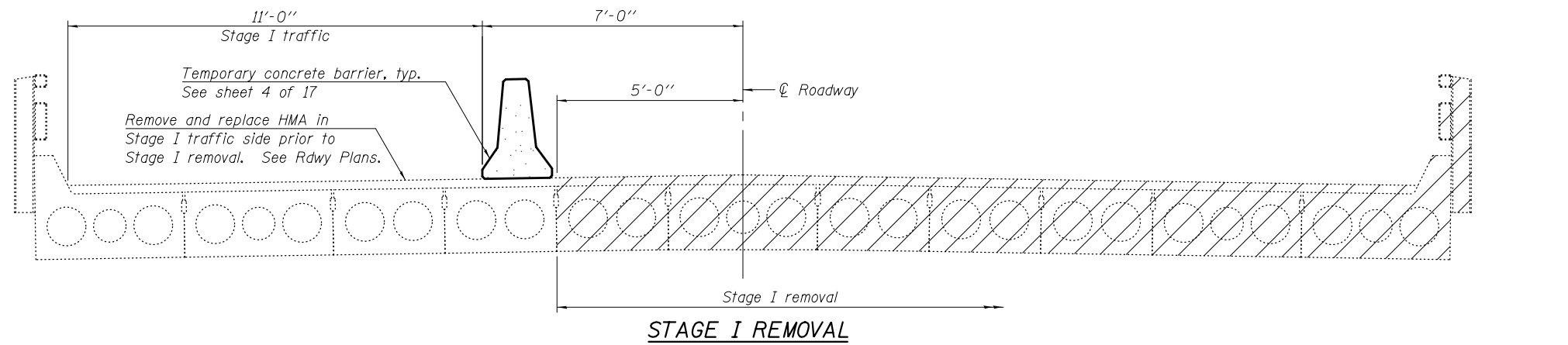
STATION 100+27.16
 RE-BUILT 2 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 116-SEC.121-BR-1
 LOADING HL-93
 STRUCTURE NO. 040-0018

NAME PLATE

Existing name plate shall be cleaned and relocated next to new name plates. Cost included with Name Plates. See Standard 515001.

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - MARCH 10, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 040-0018	F.A.P. RTE. 116	SECTION 121-BR-1	COUNTY JASPER	TOTAL SHEETS 43	SHEET NO. 17	
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 74431					
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 2 OF 17 SHEETS					
CHECKED - I.P./J.O.V./G.R.A.					ILLINOIS FED. AID PROJECT					



Notes:
All staging cross sections are looking south.
For quantity of Temporary Concrete Barrier,
see roadway plans.
Hatched area indicates Removal of Existing
Superstructures.

SDATES \$TIMES

DESIGNED - IRENE PANTOJA
CHECKED - JOSUE D. ORTIZ
DRAWN - KORY E. CHAPMAN
CHECKED - I.P./J.O.V./G.R.A.

EXAMINED
PASSED

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

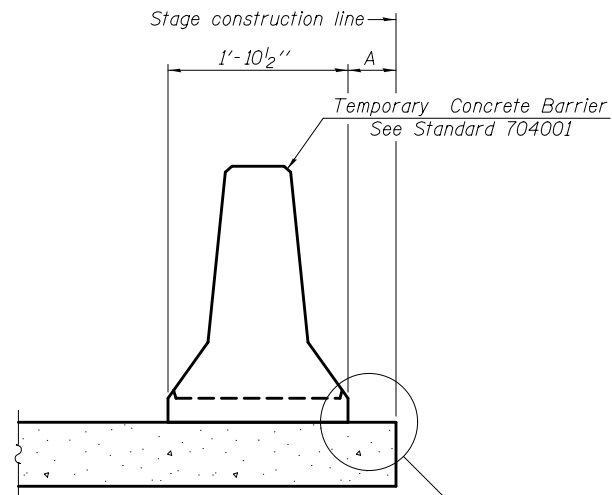
DATE - MARCH 10, 2017
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 040-0018

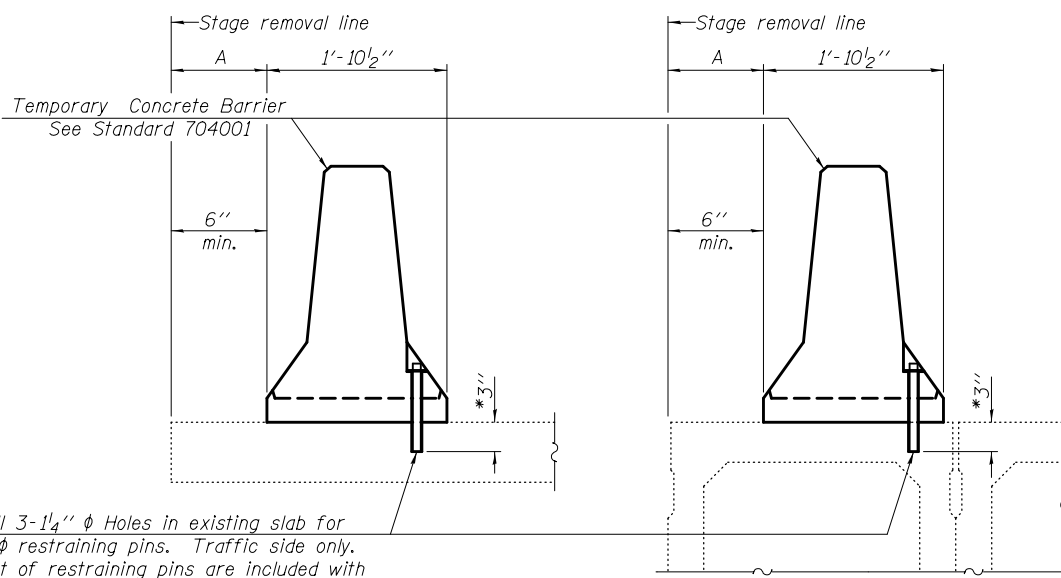
SHEET NO. 3 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	18
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				



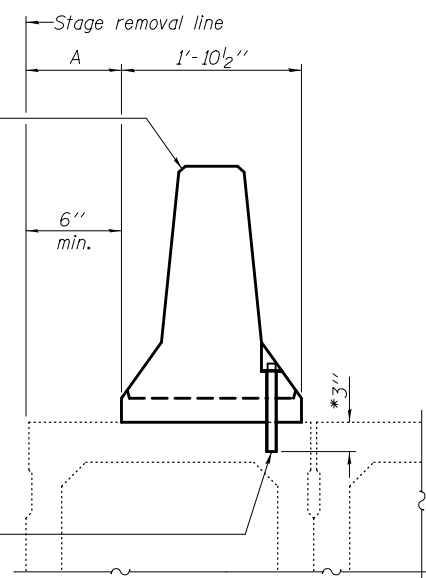
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



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

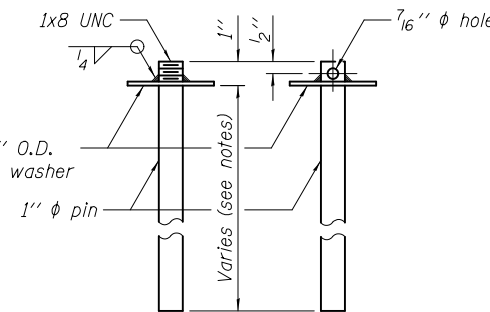
EXISTING SLAB



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

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM



RESTRAINING PIN

US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

1" ϕ pin

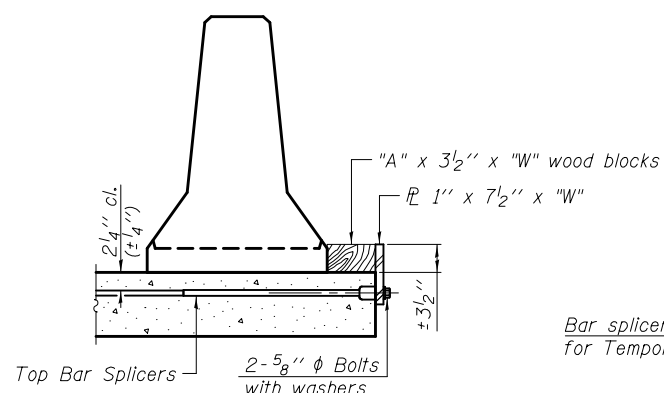
1x8 UNC

1"

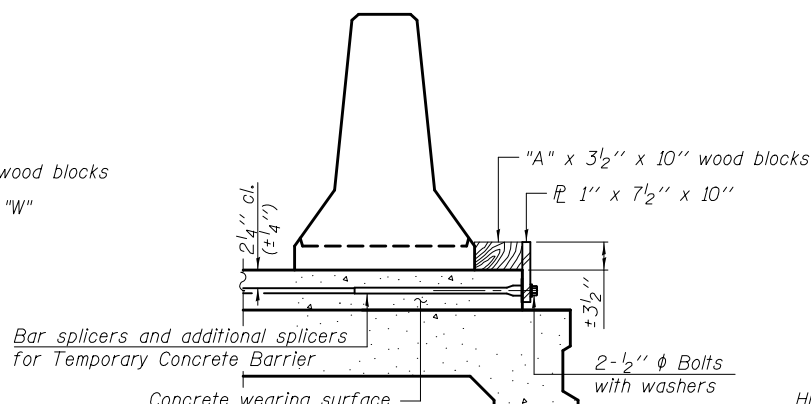
1/2"

7/16" ϕ hole

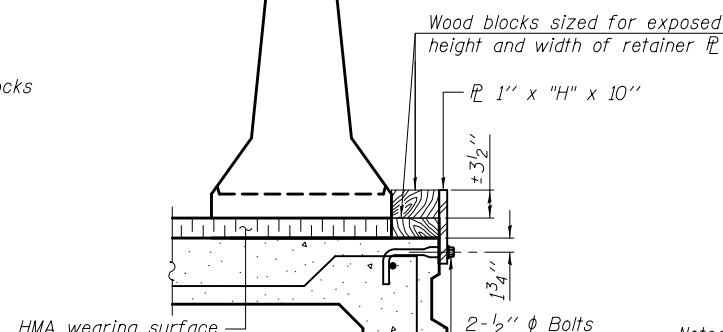
Varies (see notes)



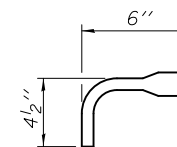
DETAIL I



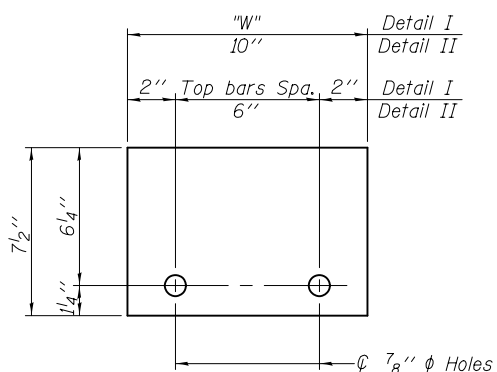
DETAIL II



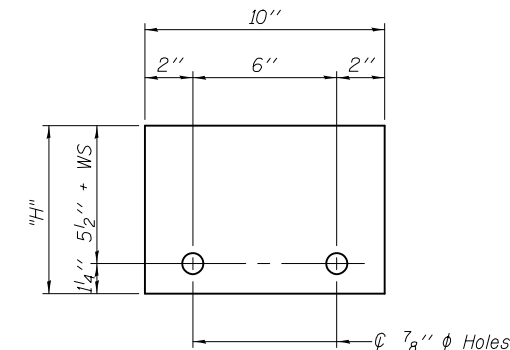
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 7 1/2" x "W"
(Detail I and II)



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

Notes:

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

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

SDATES \$TIMES

R-27 07-22-16

DESIGNED - IRENE PANTOJA	EXAMINED
CHECKED - JOSUE D. ORTIZ	PASSED
DRAWN - KORY E. CHAPMAN	
CHECKED - I.P./J.O.V./G.R.A.	

DATE - MARCH 10, 2017

REVISOR

REVISOR

REVISOR

DATE - MARCH 10, 2017

REVISOR

REVISOR

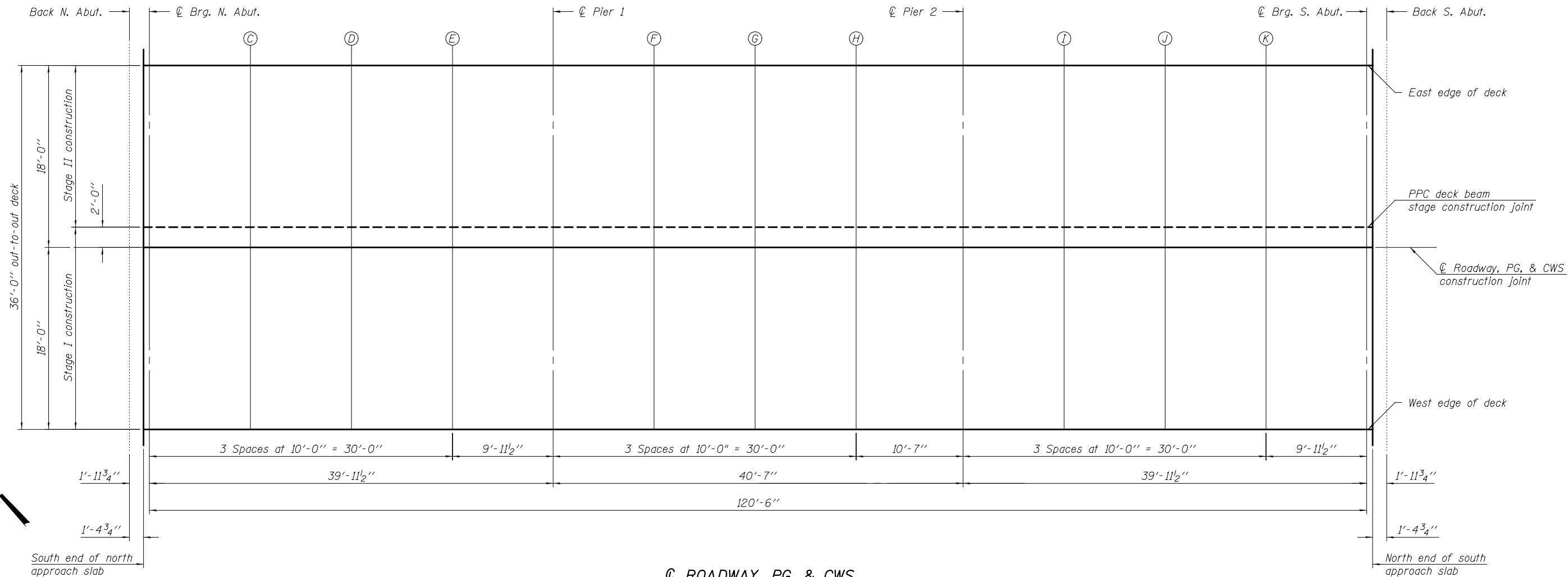
REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 040-0018

SHEET NO. 4 OF 17 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	19
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				



EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	99+64.93	-18.00	499.85
S. End N. Apr.	99+66.33	-18.00	499.84
Q Brg. N. Abut.	99+66.91	-18.00	499.84
C	99+76.91	-18.00	499.79
D	99+86.91	-18.00	499.76
E	99+96.91	-18.00	499.72
Q Pier 1	100+06.87	-18.00	499.70
F	100+16.87	-18.00	499.68
G	100+26.87	-18.00	499.67
H	100+36.87	-18.00	499.67
Q Pier 2	100+47.45	-18.00	499.67
I	100+57.45	-18.00	499.68
J	100+67.45	-18.00	499.69
K	100+77.45	-18.00	499.72
Q Brg. S. Abut.	100+87.41	-18.00	499.75
N. End S. Apr.	100+87.99	-18.00	499.75
Bk. S. Abut.	100+89.39	-18.00	499.75

ROADWAY, PG, & CWS CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	99+64.93	0.00	500.13
S. End N. Apr.	99+66.33	0.00	500.12
Q Brg. N. Abut.	99+66.91	0.00	500.12
C	99+76.91	0.00	500.07
D	99+86.91	0.00	500.04
E	99+96.91	0.00	500.01
Q Pier 1	100+06.87	0.00	499.98
F	100+16.87	0.00	499.96
G	100+26.87	0.00	499.95
H	100+36.87	0.00	499.95
Q Pier 2	100+47.45	0.00	499.95
I	100+57.45	0.00	499.96
J	100+67.45	0.00	499.97
K	100+77.45	0.00	500.00
Q Brg. S. Abut.	100+87.41	0.00	500.03
N. End S. Apr.	100+87.99	0.00	500.03
Bk. S. Abut.	100+89.39	0.00	500.03

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	99+64.93	18.00	499.85
S. End N. Apr.	99+66.33	18.00	499.84
Q Brg. N. Abut.	99+66.91	18.00	499.84
C	99+76.91	18.00	499.79
D	99+86.91	18.00	499.76
E	99+96.91	18.00	499.72
Q Pier 1	100+06.87	18.00	499.70
F	100+16.87	18.00	499.68
G	100+26.87	18.00	499.67
H	100+36.87	18.00	499.67
Q Pier 2	100+47.45	18.00	499.67
I	100+57.45	18.00	499.68
J	100+67.45	18.00	499.69
K	100+77.45	18.00	499.72
Q Brg. S. Abut.	100+87.41	18.00	499.75
N. End S. Apr.	100+87.99	18.00	499.75
Bk. S. Abut.	100+89.39	18.00	499.75

SDATES \$TIMES

DESIGNED - IRENE PANTOJA
 CHECKED - JOSUE D. ORTIZ
 DRAWN - KORY E. CHAPMAN
 CHECKED - I.P./J.O.V./G.R.A.

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

DATE - MARCH 10, 2017
 REVISED
 REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 040-0018**

SHEET NO. 5 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	20
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

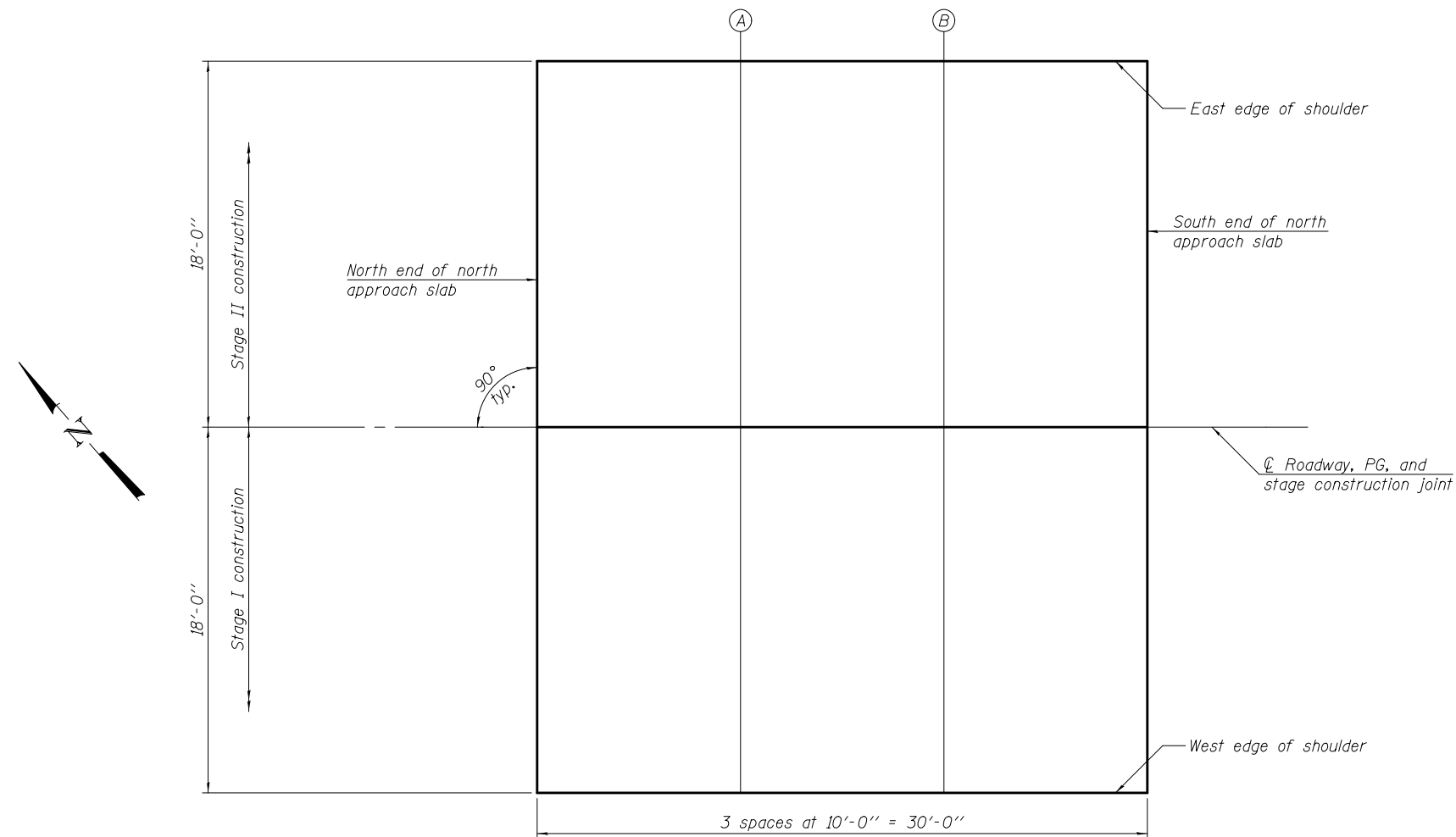
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Apr. Slab	99+36.33	-18.00	500.02
A	99+46.33	-18.00	499.95
B	99+56.33	-18.00	499.89
S. End of N. Apr. Slab	99+66.33	-18.00	499.84

ROADWAY, PG, & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Apr. Slab	99+36.33	0.00	500.30
A	99+46.33	0.00	500.23
B	99+56.33	0.00	500.17
S. End of N. Apr. Slab	99+66.33	0.00	500.12

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Apr. Slab	99+36.33	18.00	500.02
A	99+46.33	18.00	499.95
B	99+56.33	18.00	499.89
S. End of N. Apr. Slab	99+66.33	18.00	499.84



PLAN

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J...</i>	DATE - MARCH 10, 2017	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF NORTH BRIDGE APPROACH SLAB ELEVATIONS STRUCTURE NO. 040-0018	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl...</i>	REVIS			116	121-BR-1	JASPER	43	21	
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVIS			CONTRACT NO. 74431					
CHECKED - I.P./J.O.V./G.R.A.					SHEET NO. 6 OF 17 SHEETS					

ILLINOIS FED. AID PROJECT

EAST EDGE OF SHOULDER

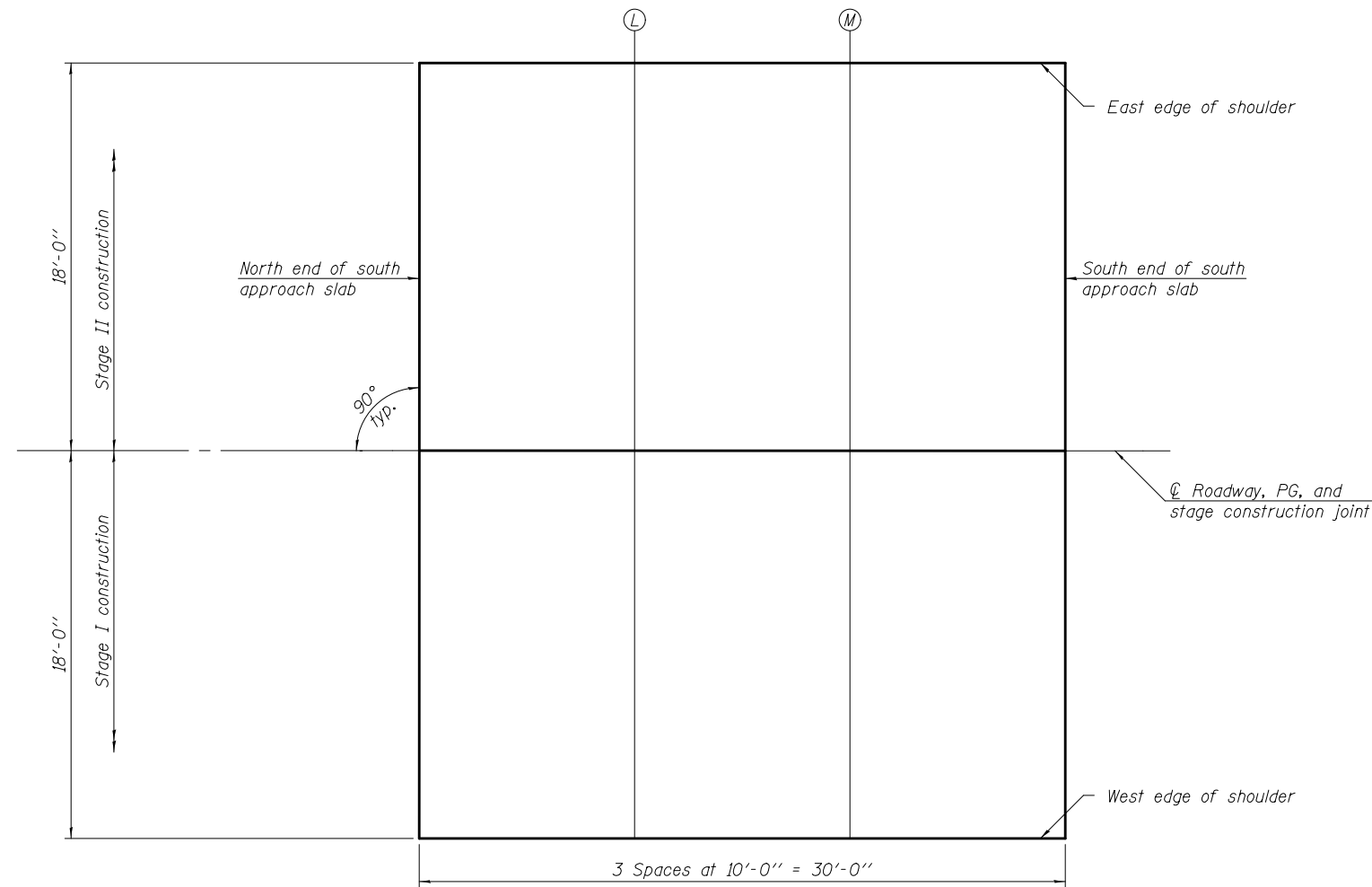
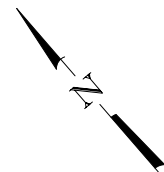
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	100+87.99	-18.00	499.75
L	100+97.99	-18.00	499.78
M	101+07.99	-18.00	499.83
S. End of S. Appr. Slab	101+17.99	-18.00	499.88

ROADWAY, PG. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	100+87.99	0.00	500.03
L	100+97.99	0.00	500.06
M	101+07.99	0.00	500.11
S. End of S. Appr. Slab	101+17.99	0.00	500.16

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	100+87.99	18.00	499.75
L	100+97.99	18.00	499.78
M	101+07.99	18.00	499.83
S. End of S. Appr. Slab	101+17.99	18.00	499.88



PLAN

SDATES \$TIMES

DESIGNED - IRENE PANTOJA
 CHECKED - JOSUE D. ORTIZ
 DRAWN - KORY E. CHAPMAN
 CHECKED - I.P./J.O.V./G.R.A.

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

DATE - MARCH 10, 2017
 REVISED
 REVISED

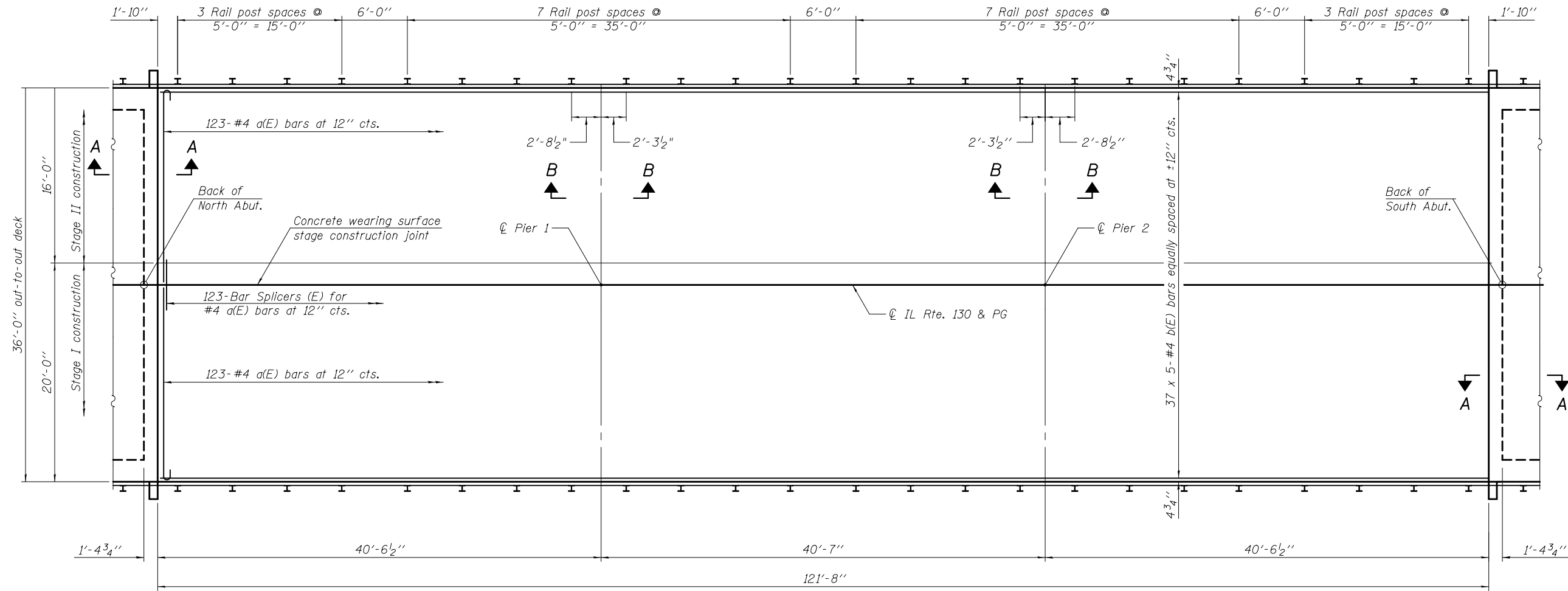
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 040-0018**

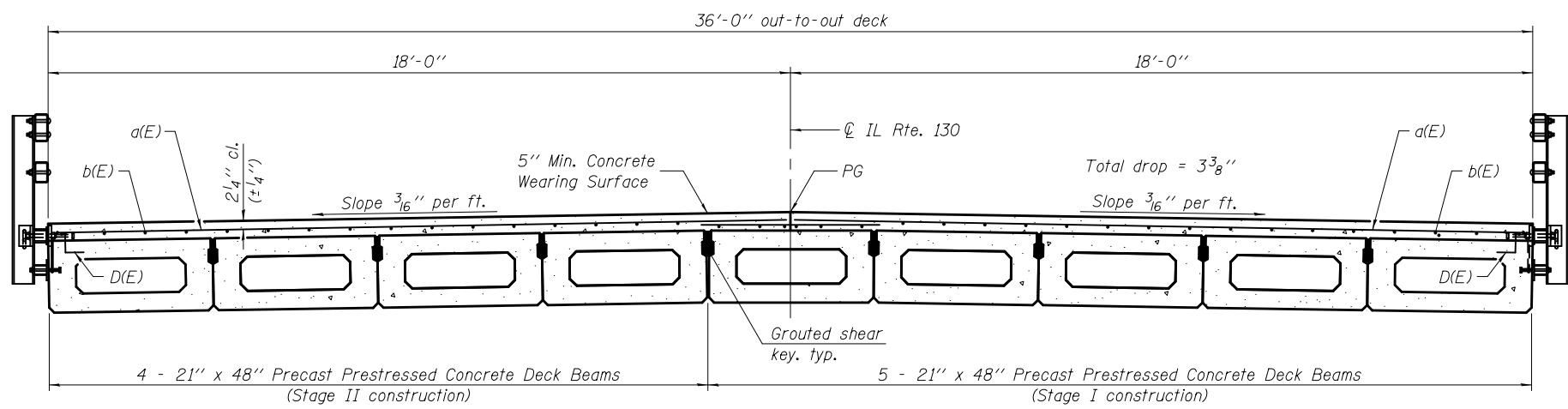
SHEET NO. 7 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	22
CONTRACT NO. 74431				

ILLINOIS FED. AID PROJECT



PLAN



CROSS SECTION
(Looking South)

Steel Railing, Type SM, typ.
See sheet 14 of 17 for details.

Notes:
See sheet 9 of 17 for Section A-A, Section B-B, additional superstructure details, and Bill of Material.
Bars indicated thus, 37 x 5-#4 etc. indicates 37 lines of bars with 5 lengths per line.

MINIMUM BAR LAP
#4 bar = 2'-7"

SDATES \$TIMES

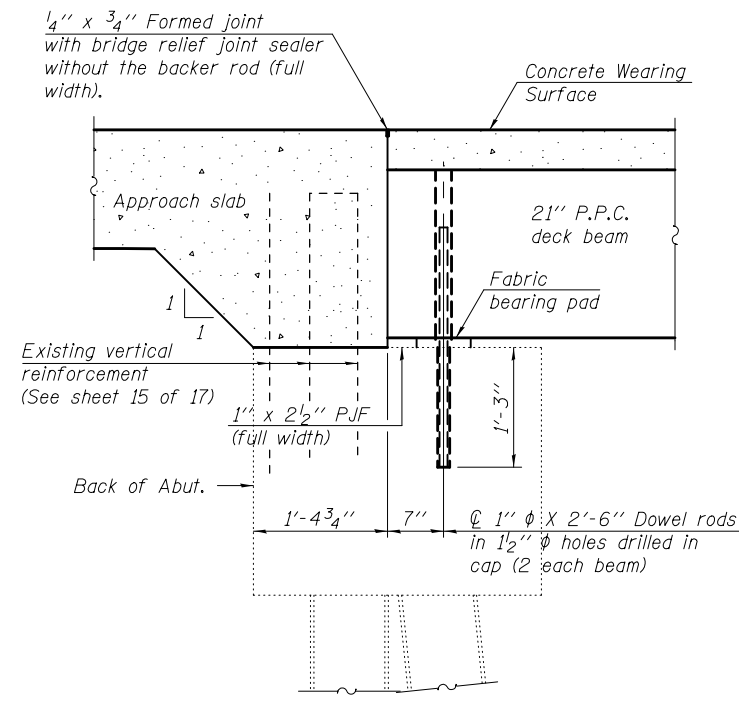
DESIGNED - IRENE PANTOJA	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl [Signature]</i>	REVISED
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - I.P./J.O.V./G.R.A.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

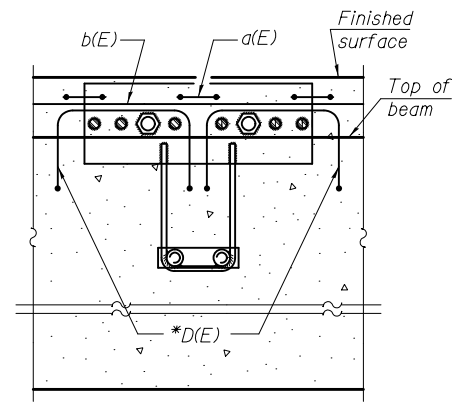
SUPERSTRUCTURE
STRUCTURE NO. 040-0018

SHEET NO. 8 OF 17 SHEETS

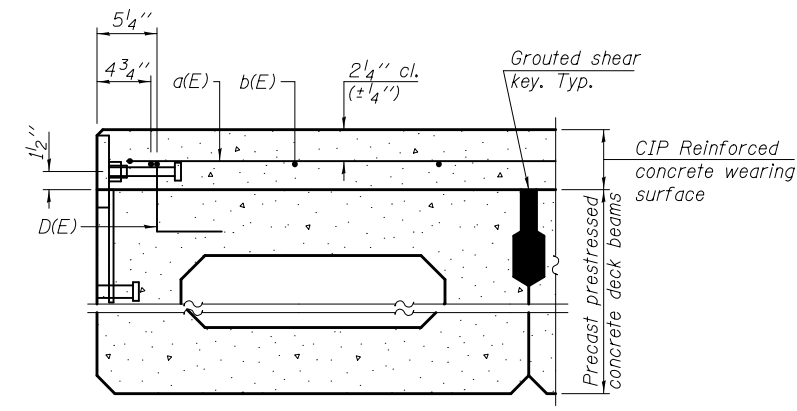
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	23
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				



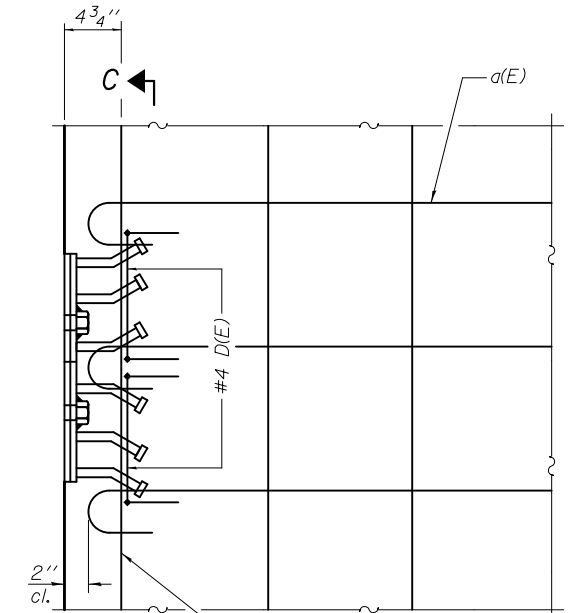
SECTION A-A



SECTION C-C



SECTION THRU FASCIA BEAM

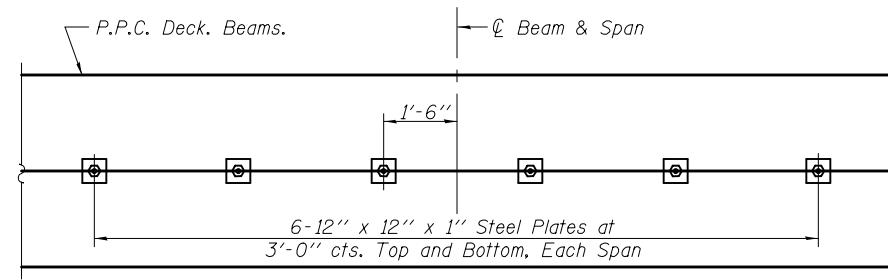


PLAN

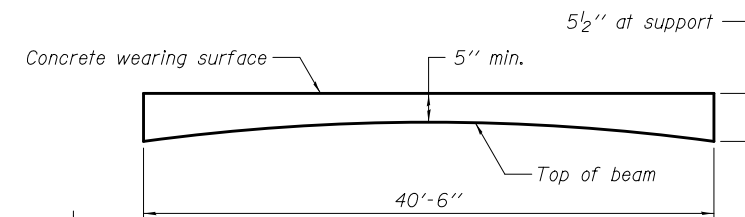
Notes:
 The concrete wearing surface shall be placed prior to casting approach slabs.
 Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.
 See sheet 11 of 17 for fabric bearing pad details.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	246	#4	18'-2"	
b(E)	185	#4	26'-4"	
Reinforcement Bars, Epoxy Coated				Pound 6240
Concrete Wearing Surface, 5"				Sq. Yd. 487

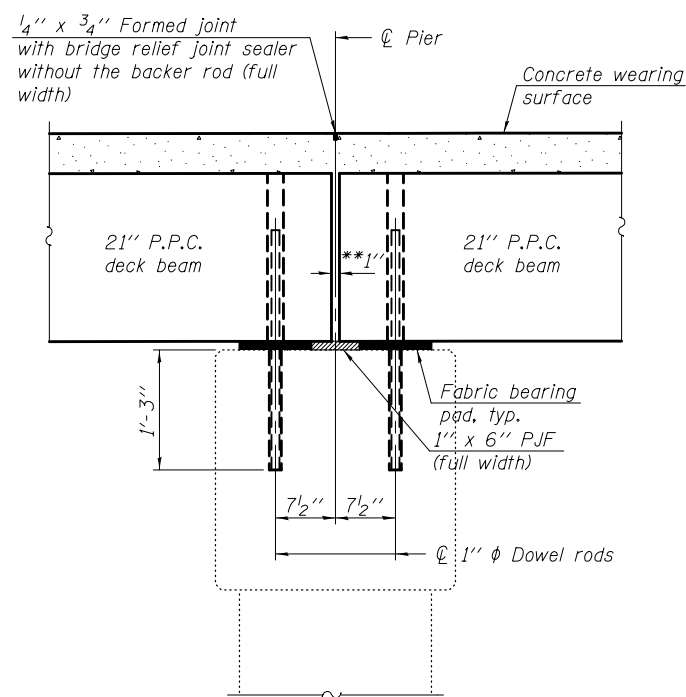


PLAN

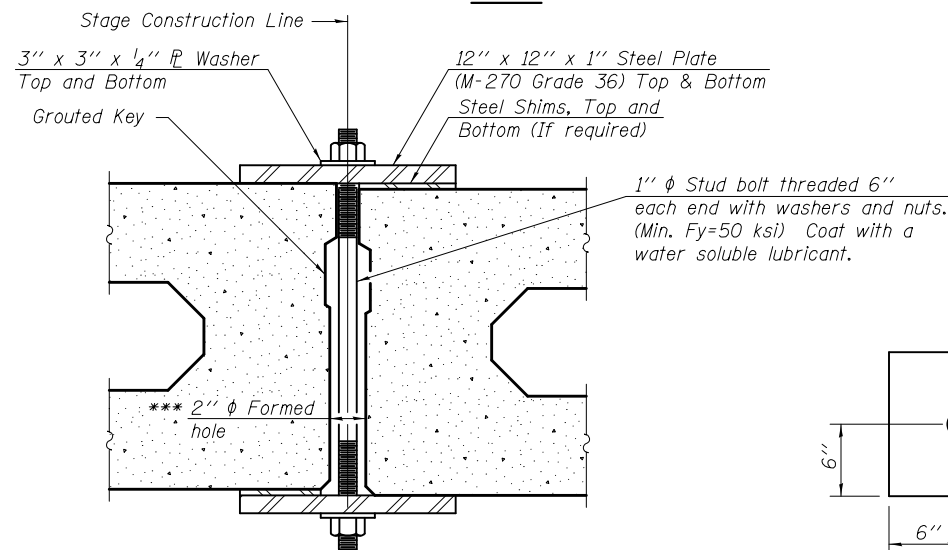


ANTICIPATED CONCRETE WEARING SURFACE PROFILE
 (For information only)

- * Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.
- ** 1" Joint shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.
- *** Cast semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.



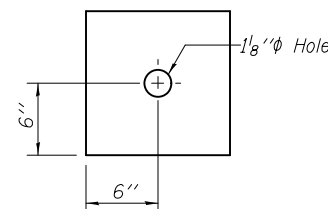
SECTION B-B



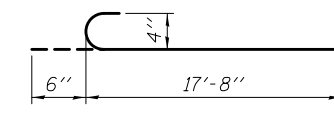
SECTION

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

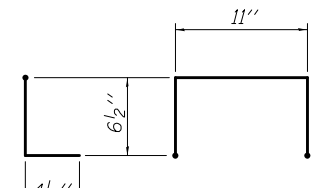
Cost included with Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.



CLAMPING PLATE



BAR a(E)



BAR D(E)

SDATES \$TIMES

DESIGNED - IRENE PANTOJA
 CHECKED - JOSUE D. ORTIZ
 DRAWN - KORY E. CHAPMAN
 CHECKED - I.P./J.O.V./G.R.A.

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 10, 2017
 REVISED
 REVISED

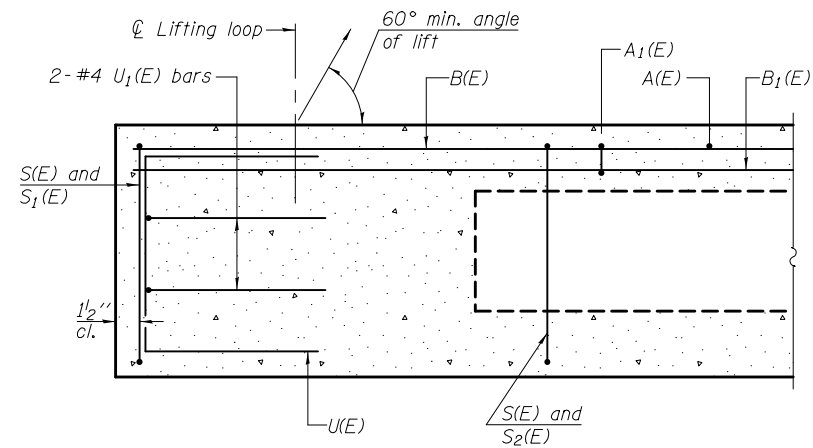
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 040-0018

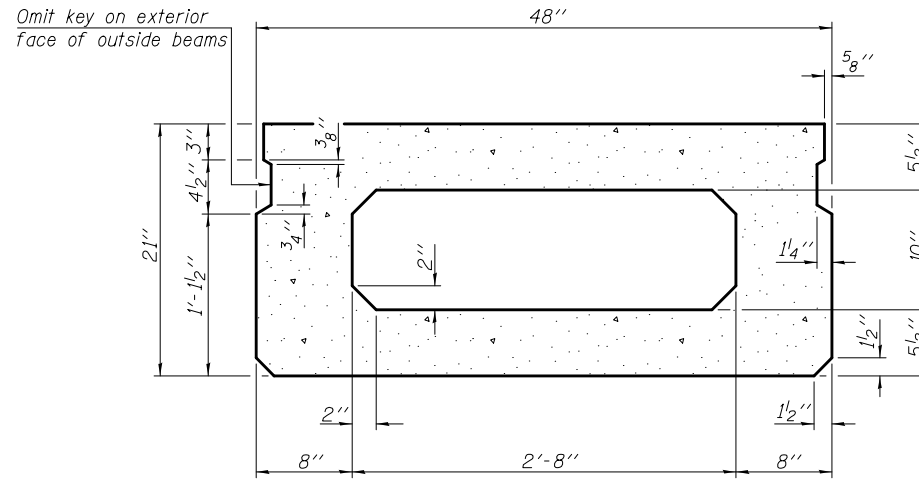
SHEET NO. 9 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	24
CONTRACT NO. 74431				

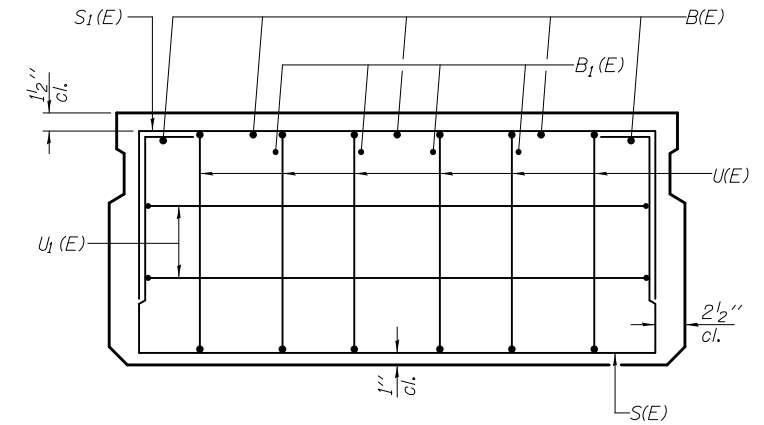
ILLINOIS FED. AID PROJECT



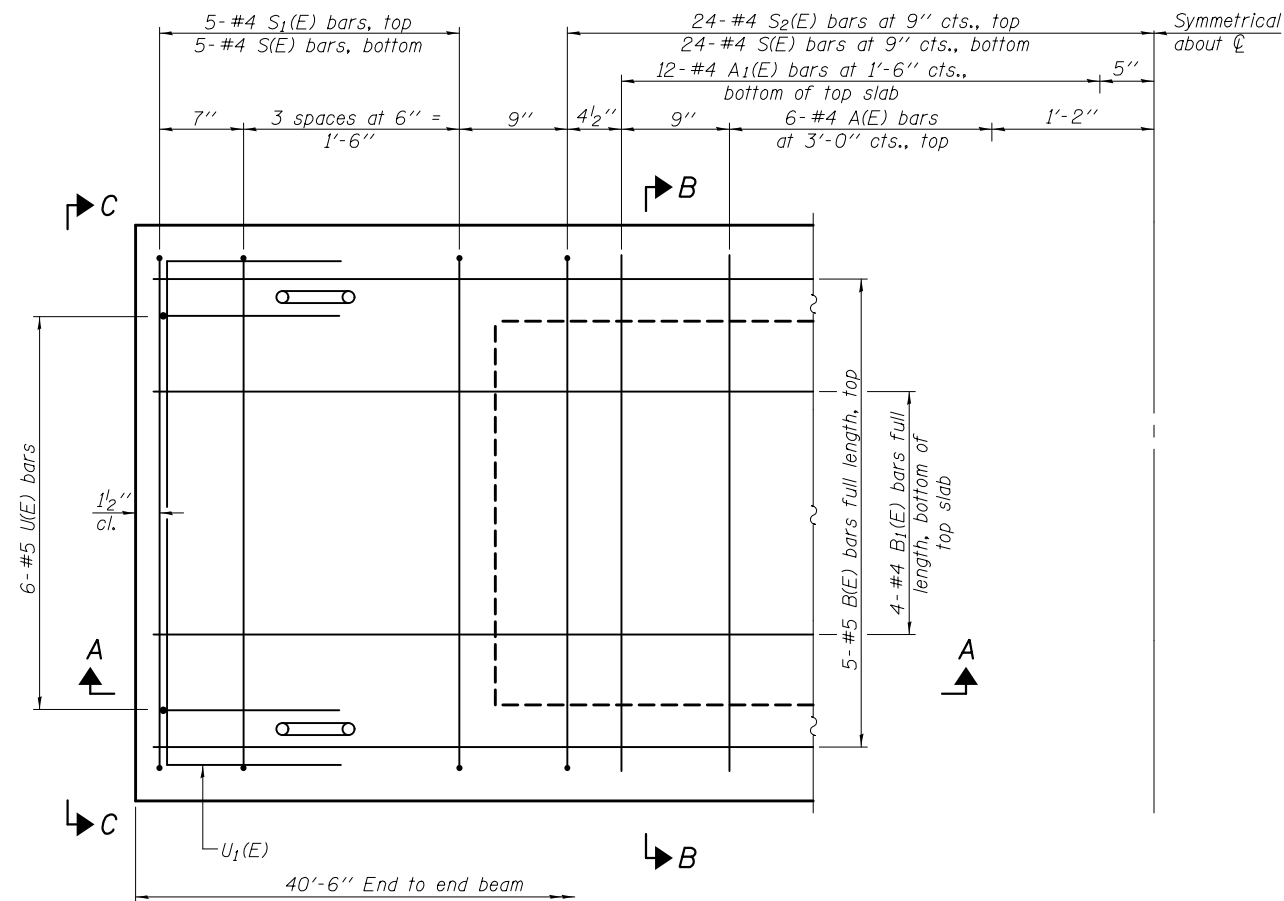
SECTION A-A



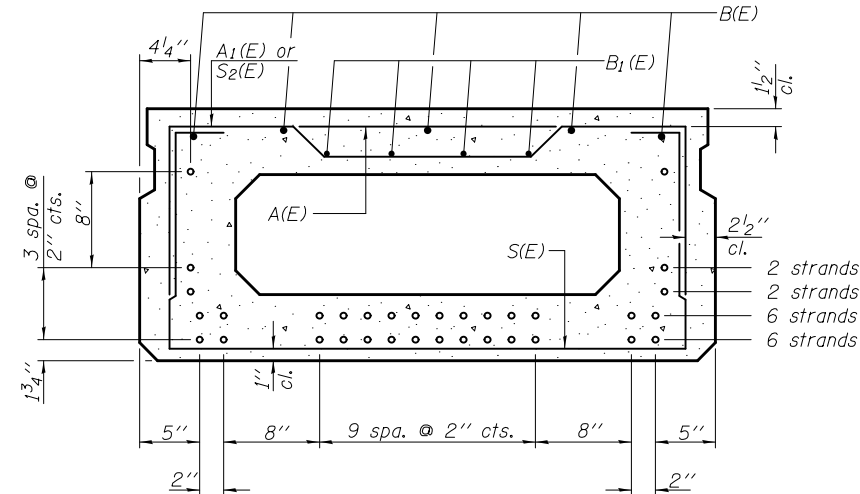
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For Information Only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	~
B(E)	5	#5	40'-3"	—
B1(E)	4	#4	40'-3"	—
S(E)	57	#4	7'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	47	#4	6'-2"	U
U(E)	12	#5	4'-0"	U
U1(E)	4	#4	6'-0"	U

Note: See sheet 11 of 17 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

SDATES \$TIMES

PD-2148-0

06-01-16

DESIGNED - IRENE PANTOJA
CHECKED - JOSUE D. ORTIZ
DRAWN - KORY E. CHAPMAN
CHECKED - I.P./J.O.V./G.R.A.

EXAMINED
PASSED

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

DATE - MARCH 10, 2017

REVISED
REVISED

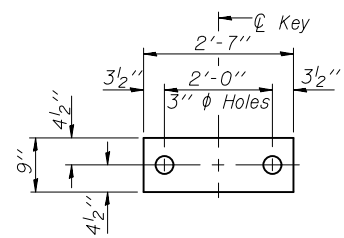
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO. 040-0018

SHEET NO. 10 OF 17 SHEETS

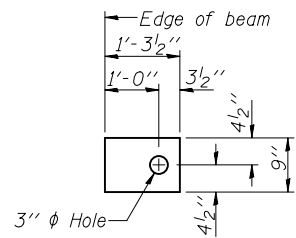
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	25
CONTRACT NO. 74431				

ILLINOIS FED. AID PROJECT



FABRIC BEARING PAD

(Interior)



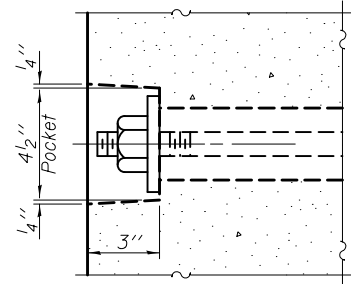
FABRIC BEARING PAD

(Exterior)

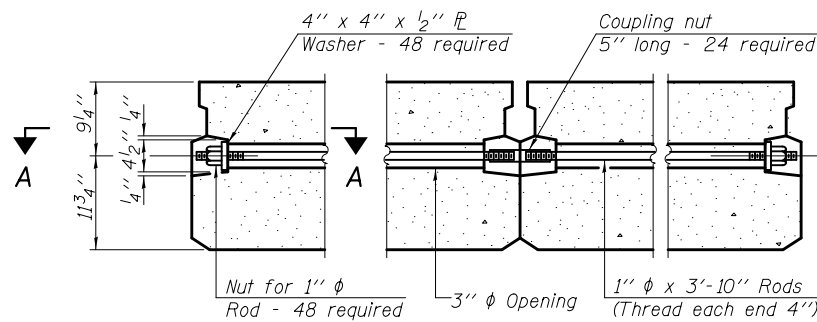
FIXED

Notes:

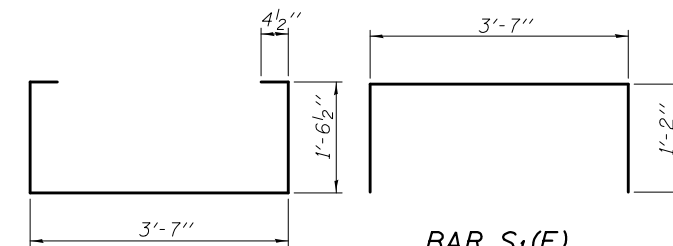
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



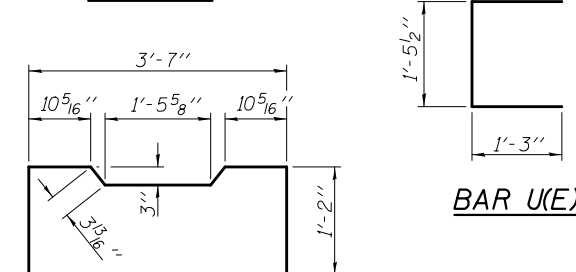
SECTION A-A



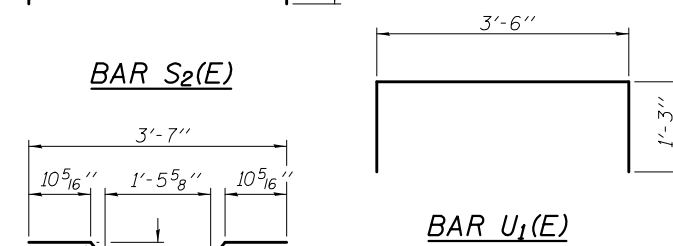
TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)



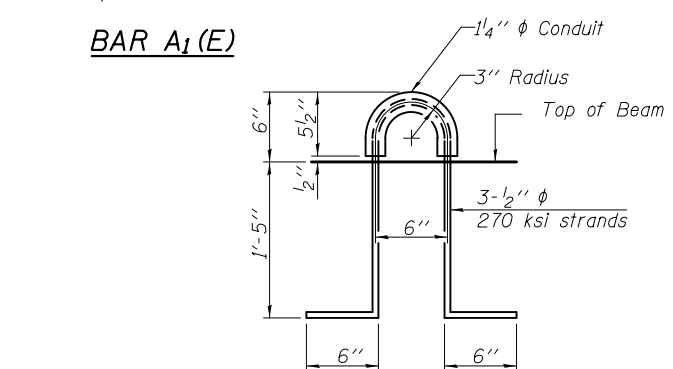
BAR U(E)



BAR S2(E)

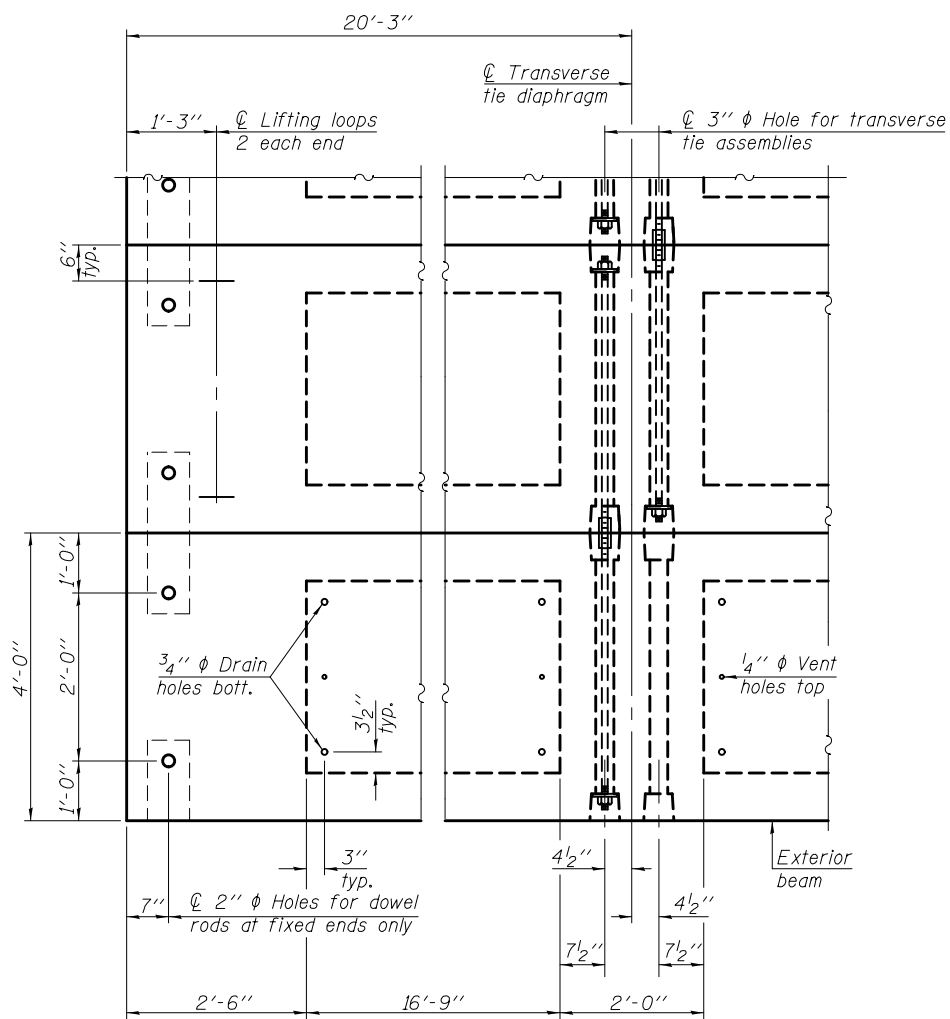


BAR U1(E)



BAR A1(E)

LIFTING LOOP DETAIL



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	4374
---	---------	------

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl [Signature]</i>	REVISOR
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - I.P./J.O.V./G.R.A.		

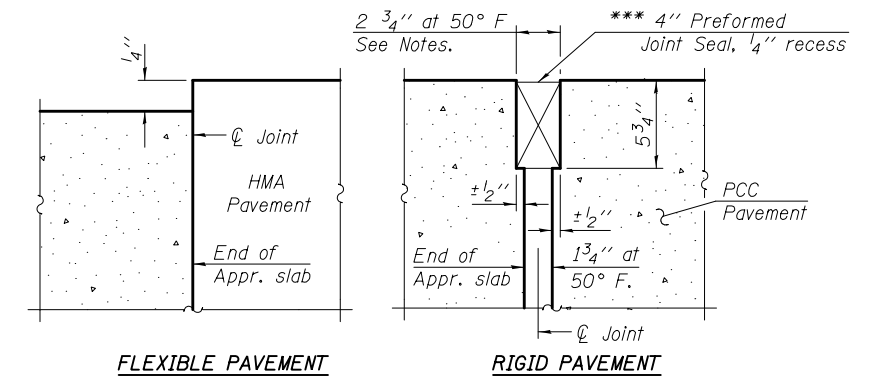
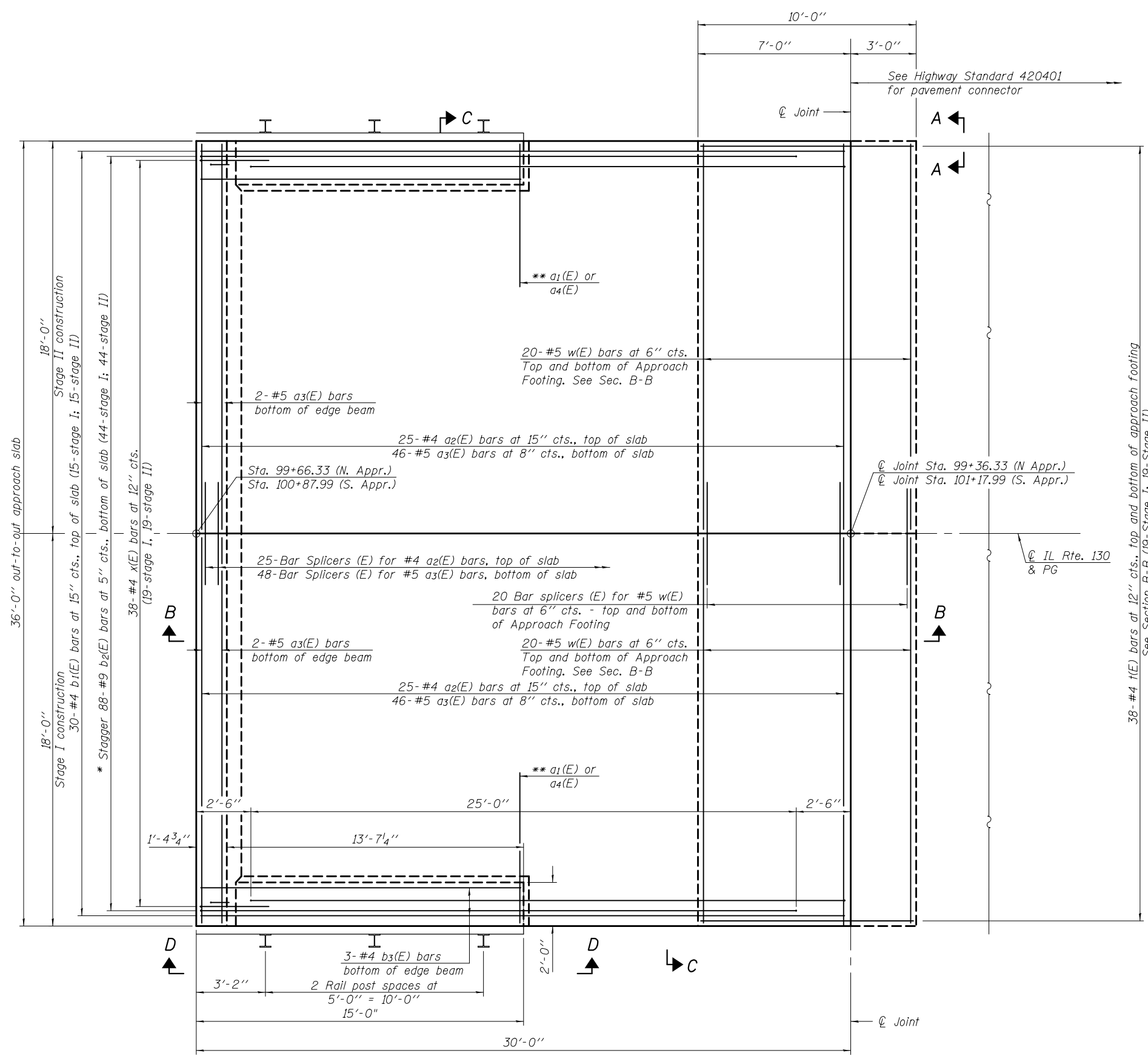
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 040-0018**

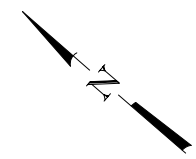
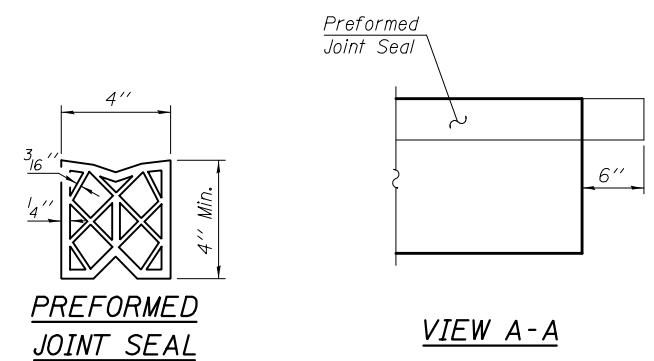
SHEET NO. 11 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	26
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 13 of 17 for Sections B-B & C-C and View D-D.
 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 1/2' for installation purposes.
 See sheet 14 of 17 for Steel Railing, Type SM details.



DETAIL A



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

* Tilt #9 b₂(E) bars as required to maintain clearance.
 ** See sheet 13 of 17 for View D-D showing additional reinforcement in edge beams for the side mount railing.
 *** Cost included with Concrete Superstructure (Approach Slab).

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J...</i>	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl...</i>	REVISED
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - I.P./J.O.V./G.R.A.		

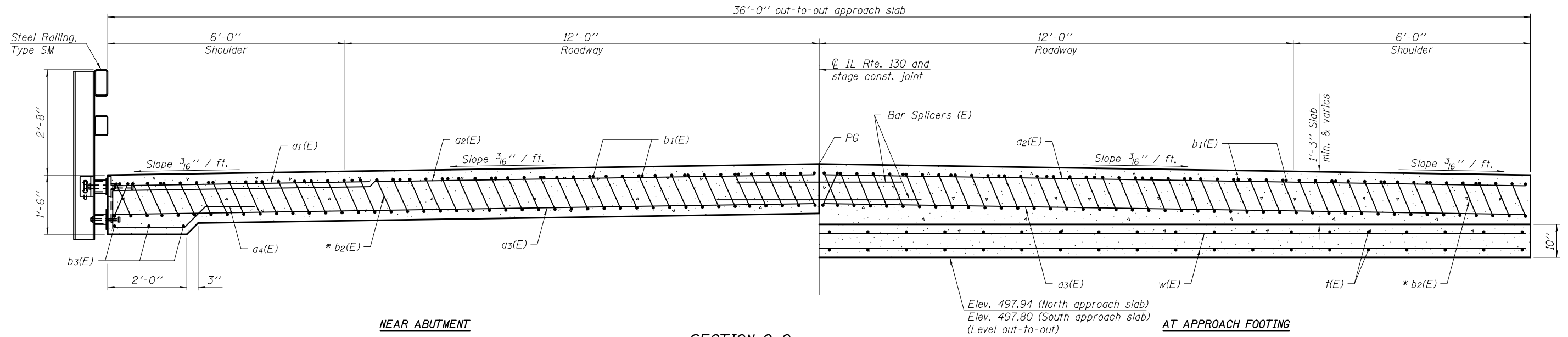
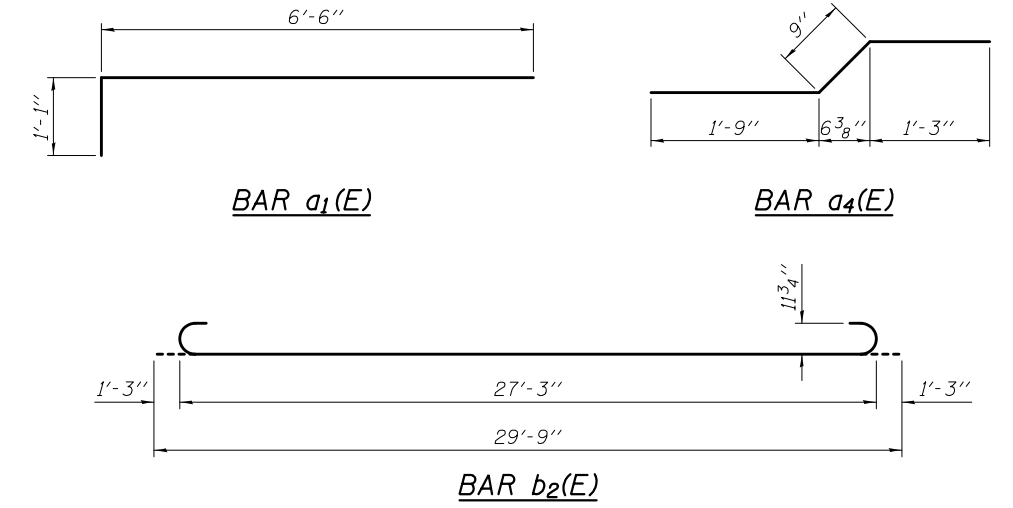
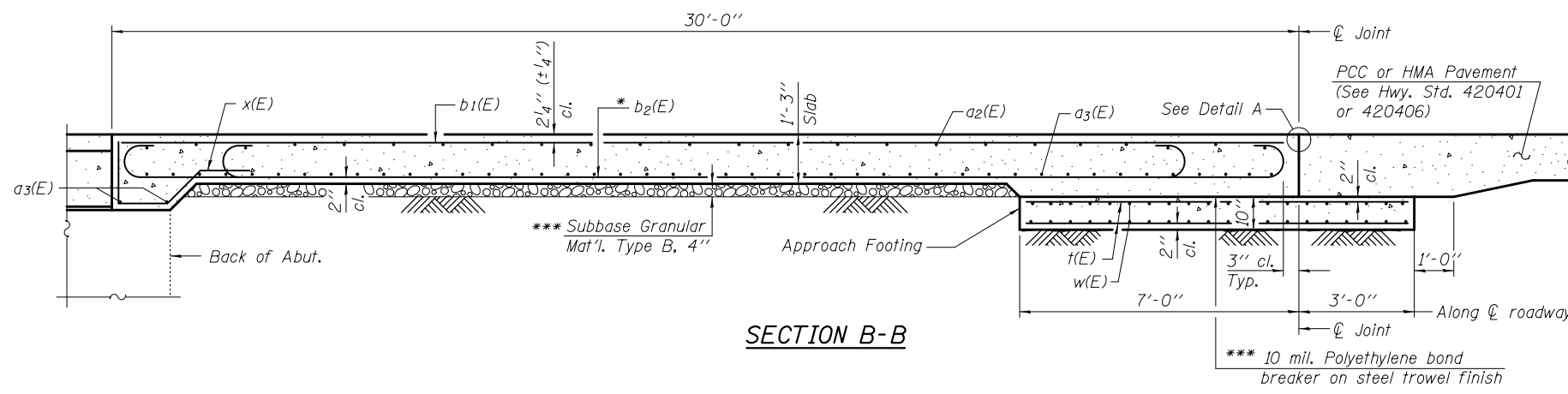
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 040-0018

SHEET NO. 12 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	27
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

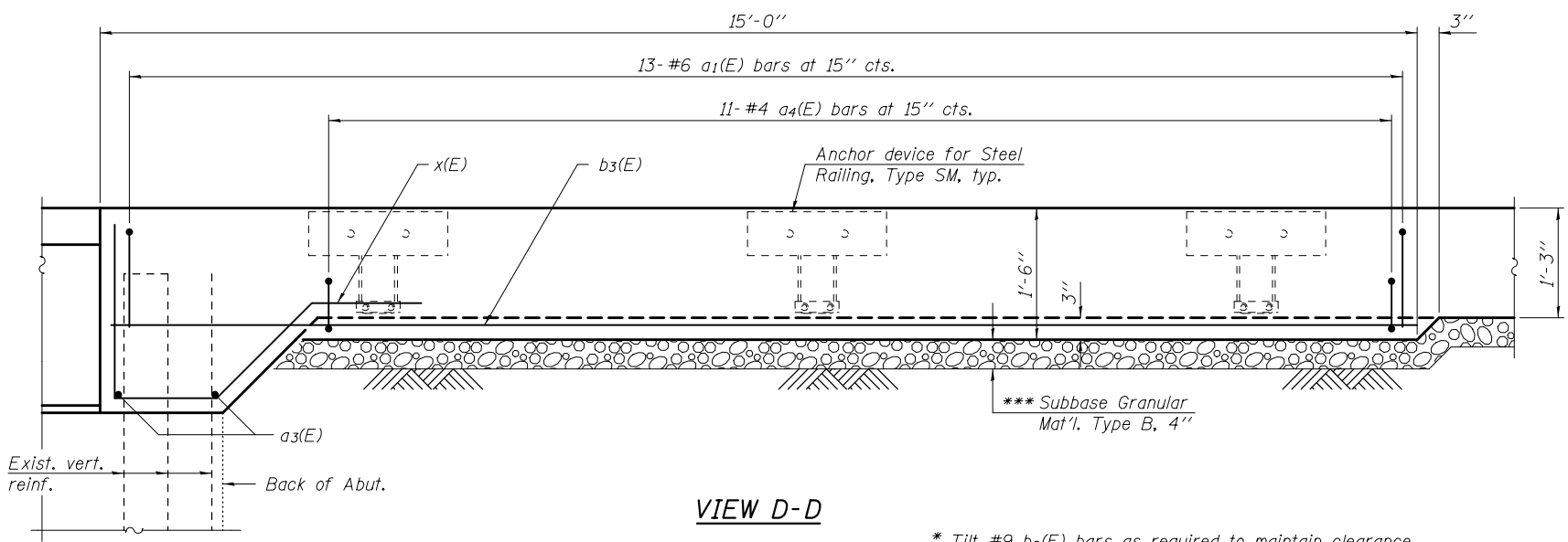
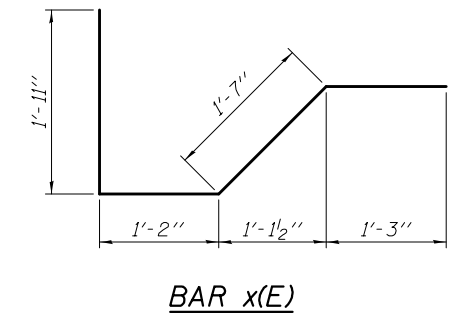
(Sheet 1 of 2)



Notes:
 Approach slab concrete shall be paid for as Concrete Superstructure (Approach Slab). 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 (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	52	#6	7'-7"	┌
a2(E)	100	#4	17'-8"	—
a3(E)	192	#5	17'-8"	—
a4(E)	44	#4	3'-9"	└
b1(E)	60	#4	29'-8"	—
b2(E)	176	#9	29'-9"	┌
b3(E)	12	#4	14'-10"	—
t(E)	152	#4	9'-8"	—
w(E)	160	#5	17'-8"	—
x(E)	76	#4	5'-11"	└
Concrete Superstructure (Approach Slab)			Cu. Yd.	108.8
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	28,760



* Tilt #9 b2(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure (Approach Slab).

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Joanne F. J...</i>	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl...</i>	REVISOR
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - I.P./J.O.V./G.R.A.		

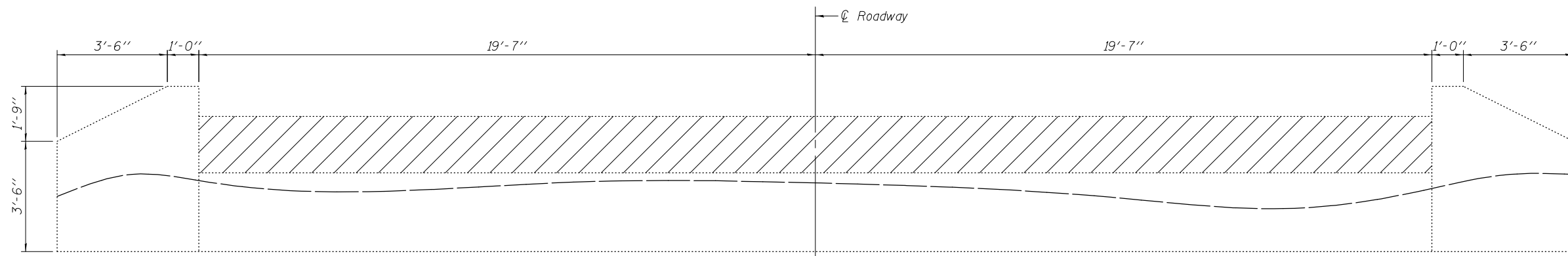
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 040-0018**

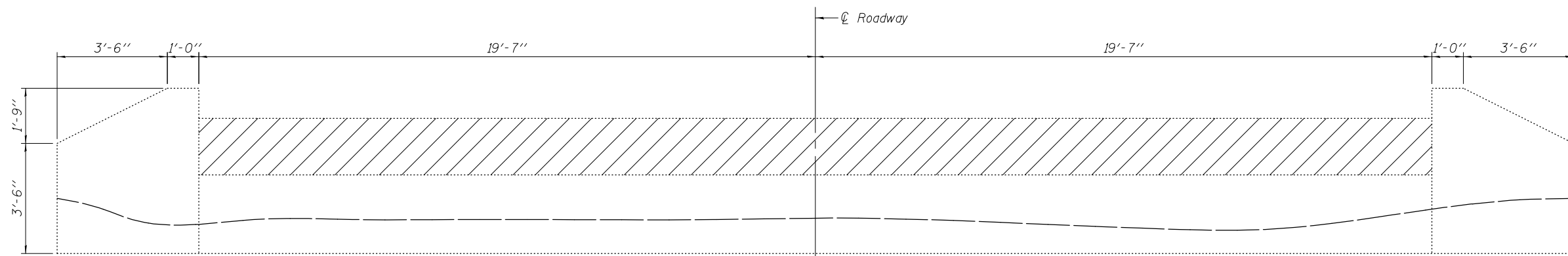
SHEET NO. 13 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	28
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

(Sheet 2 of 2)



SOUTH ABUTMENT ELEVATION

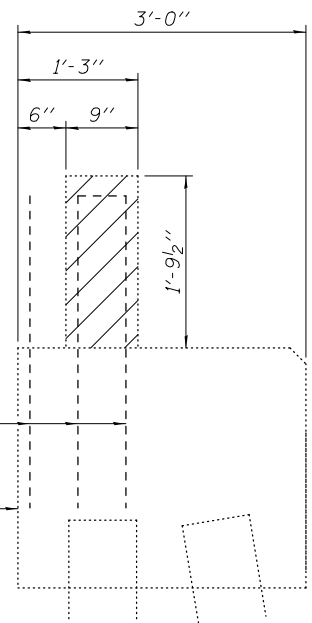


NORTH ABUTMENT ELEVATION

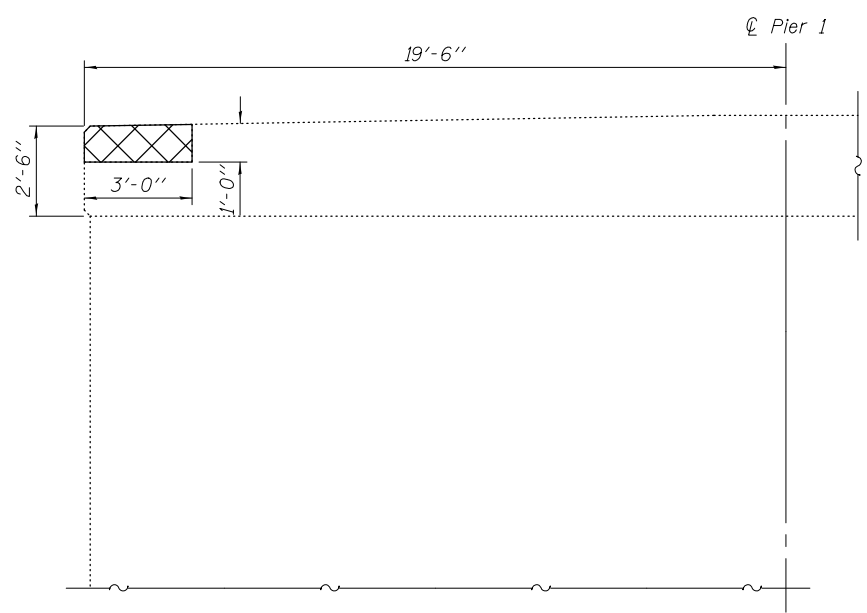
* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in Concrete Removal.

* Existing vertical reinforcement

Back of Abut.



SECTION THRU ABUTMENT



PIER 1 ELEVATION
(Looking at south face)

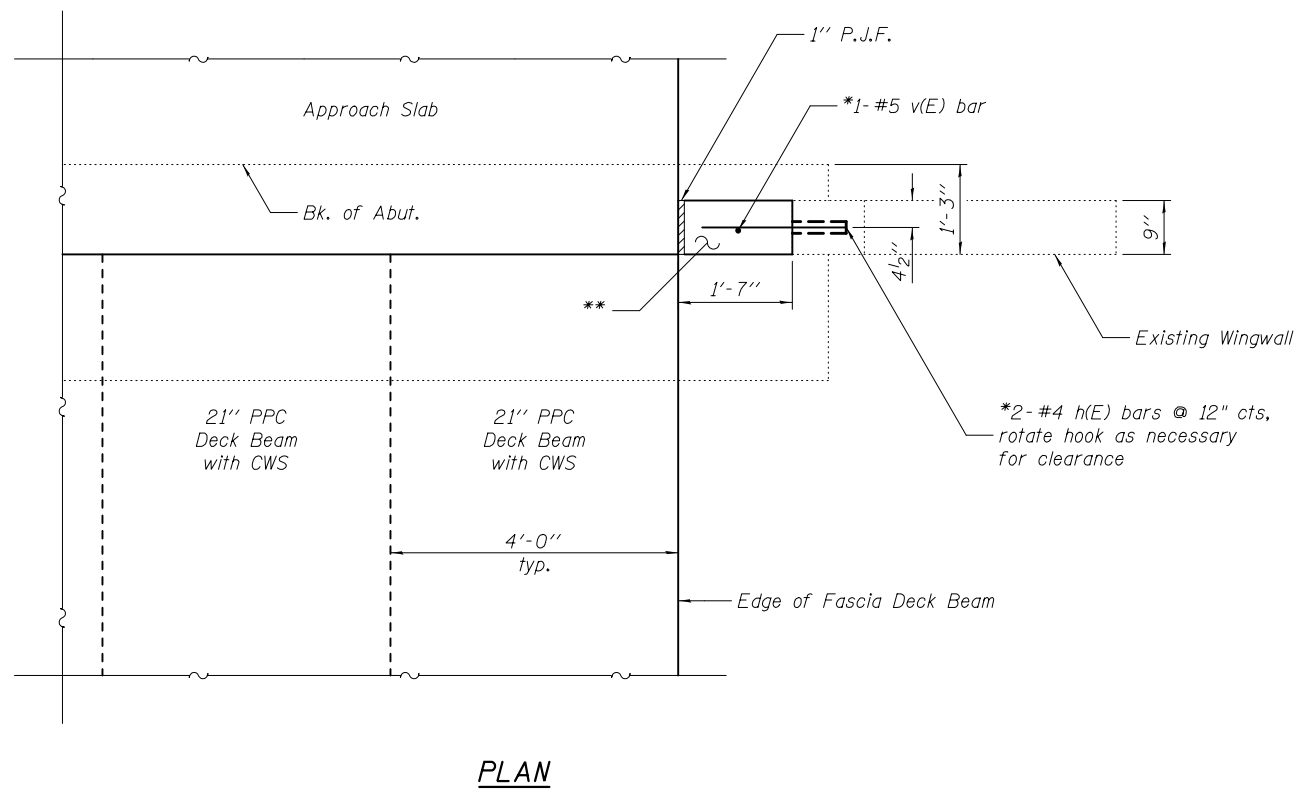
LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth equal to or less than 5 inches)

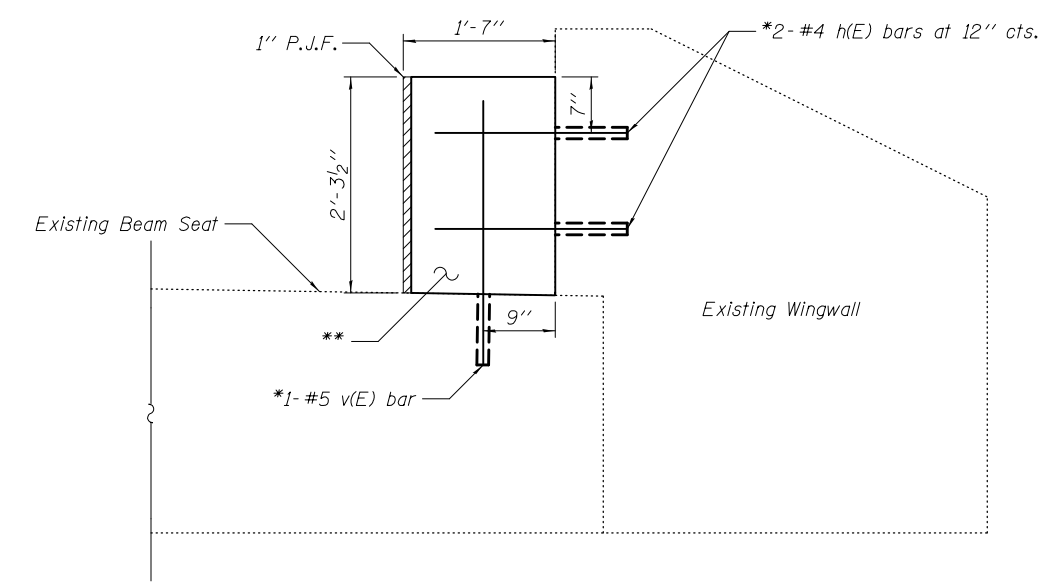
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	3.9
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	3

SDATES \$TIMES



PLAN

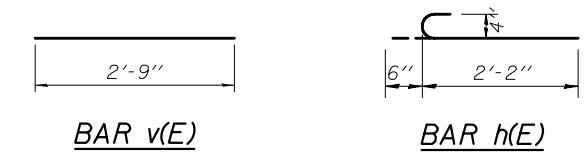


ELEVATION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	2'-8"	
v(E)	4	#5	2'-9"	
Concrete Structures			Cu. Yd.	0.4
Reinforcement Bars, Epoxy Coated			Pound	30

- * Epoxy grout h(E) & v(E) bars in 9" min. drilled holes according to Section 584 of Standard Specifications.
- ** Concrete to be placed after PPC deck beams have been erected and doweled into place.



Notes:
Existing vertical reinforcement bars extending into the new construction shall be cleaned, straightened and incorporated into the new construction. Cost included with Removal of Existing Superstructures.

SDATES \$TIMES

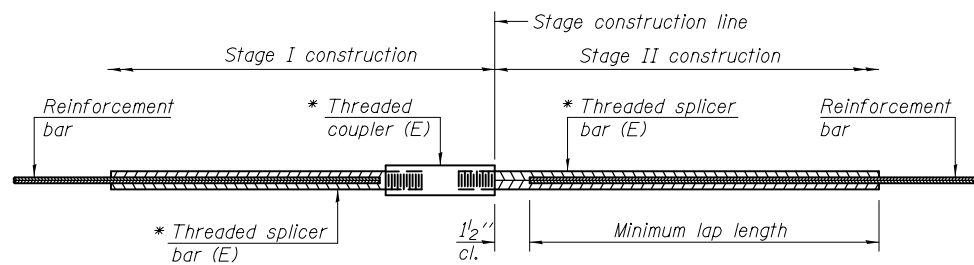
DESIGNED - IRENE PANTOJA	EXAMINED	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	 ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
DRAWN - KORY E. CHAPMAN		REVISED
CHECKED - I.P./J.O.V./G.R.A.		REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS
STRUCTURE NO. 040-0018**

SHEET NO. 16 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	31
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

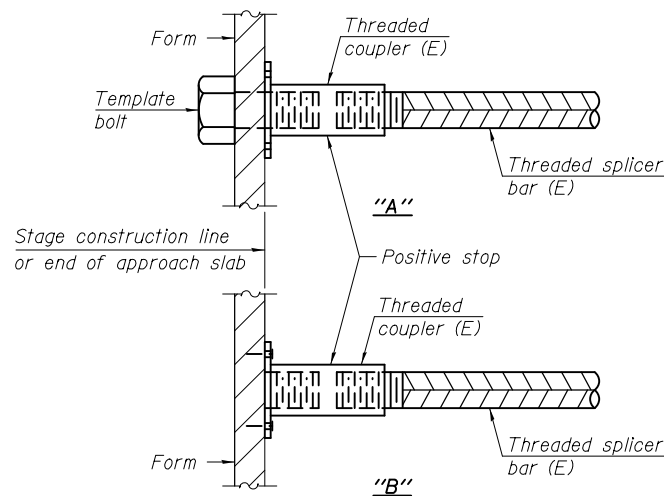


STANDARD BAR SPLICER ASSEMBLY

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

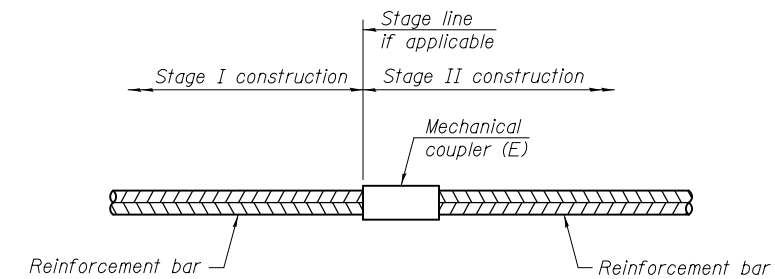
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Approach slab, top	#4	50	2'-7"
Approach slab, bottom	#5	96	3'-3"
Approach slab, footing	#5	80	3'-3"
Concrete wearing surface	#4	123	2'-7"



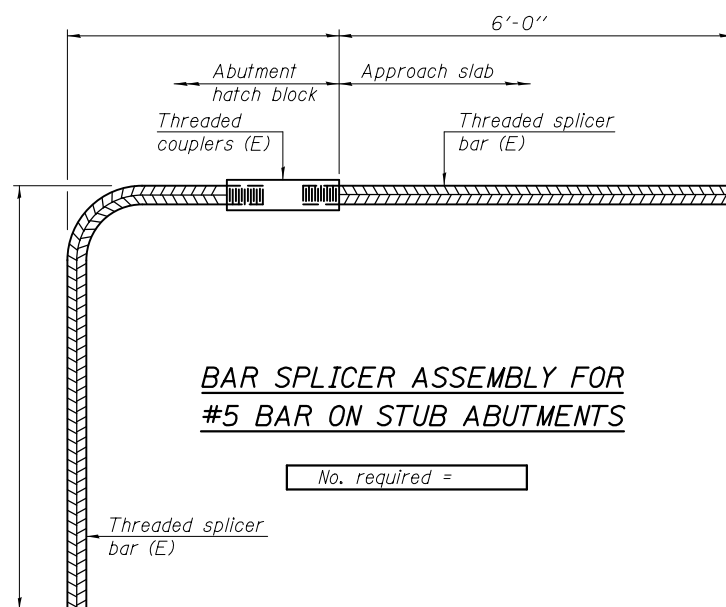
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

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

BSD-1

6-8-15

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - MARCH 10, 2017
CHECKED - JOSUE D. ORTIZ	PASSED - <i>Carl [Signature]</i>	REVISOR
DRAWN - KORY E. CHAPMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR
CHECKED - I.P./J.O.V./G.R.A.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

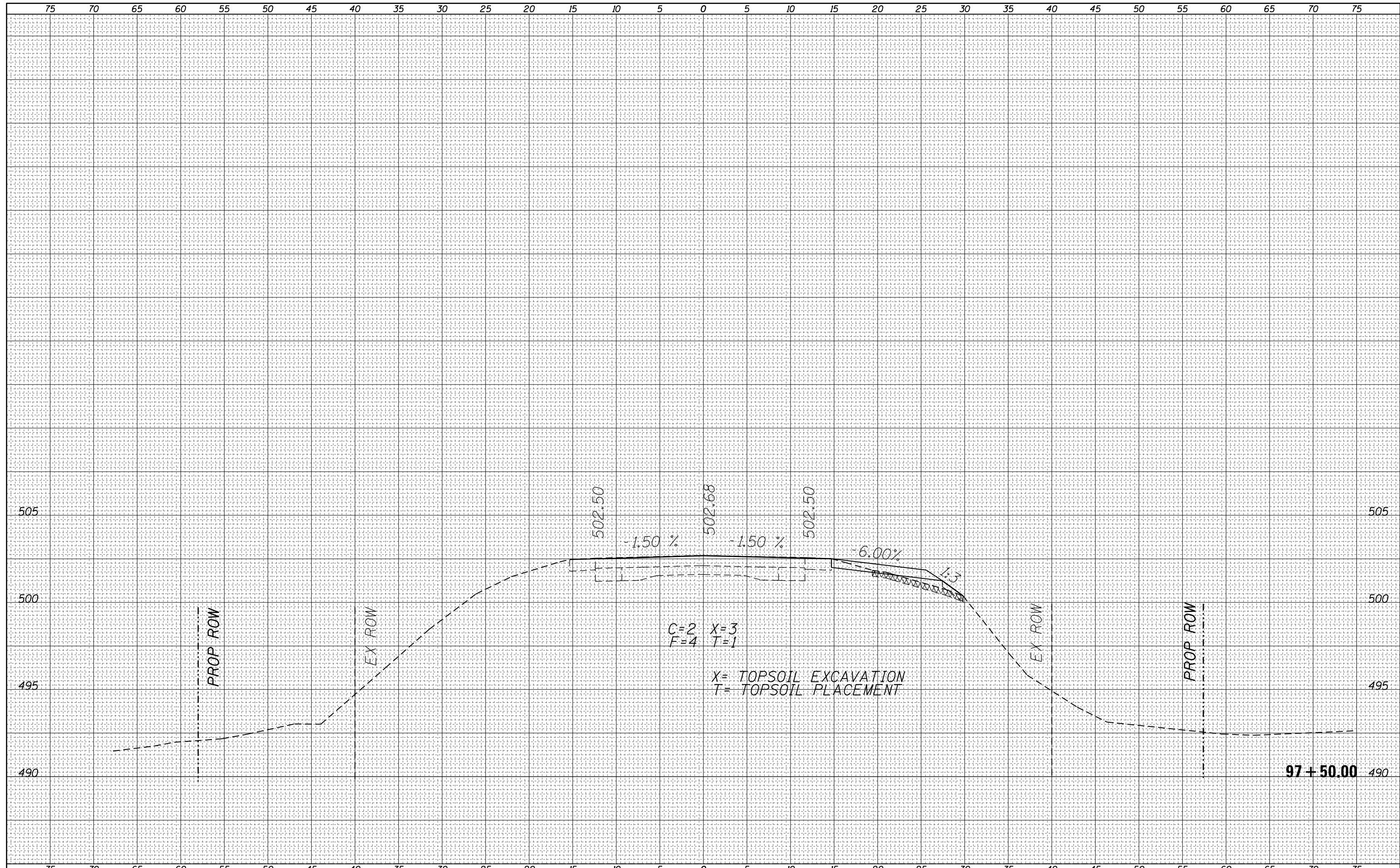
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 040-0018

SHEET NO. 17 OF 17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	121-BR-1	JASPER	43	32
CONTRACT NO. 74431				
ILLINOIS FED. AID PROJECT				

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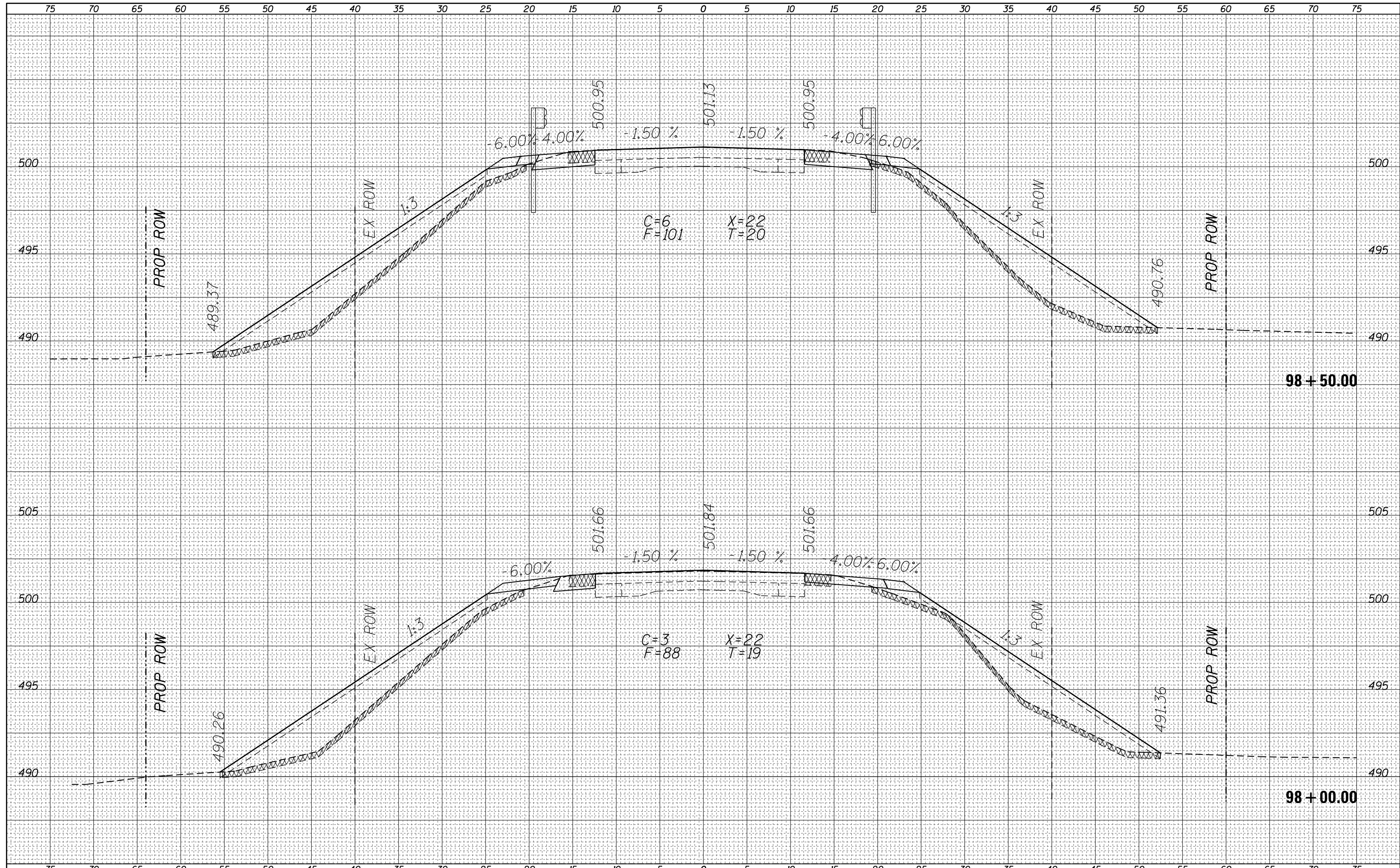
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											ILLINOIS FED. AID PROJECT	

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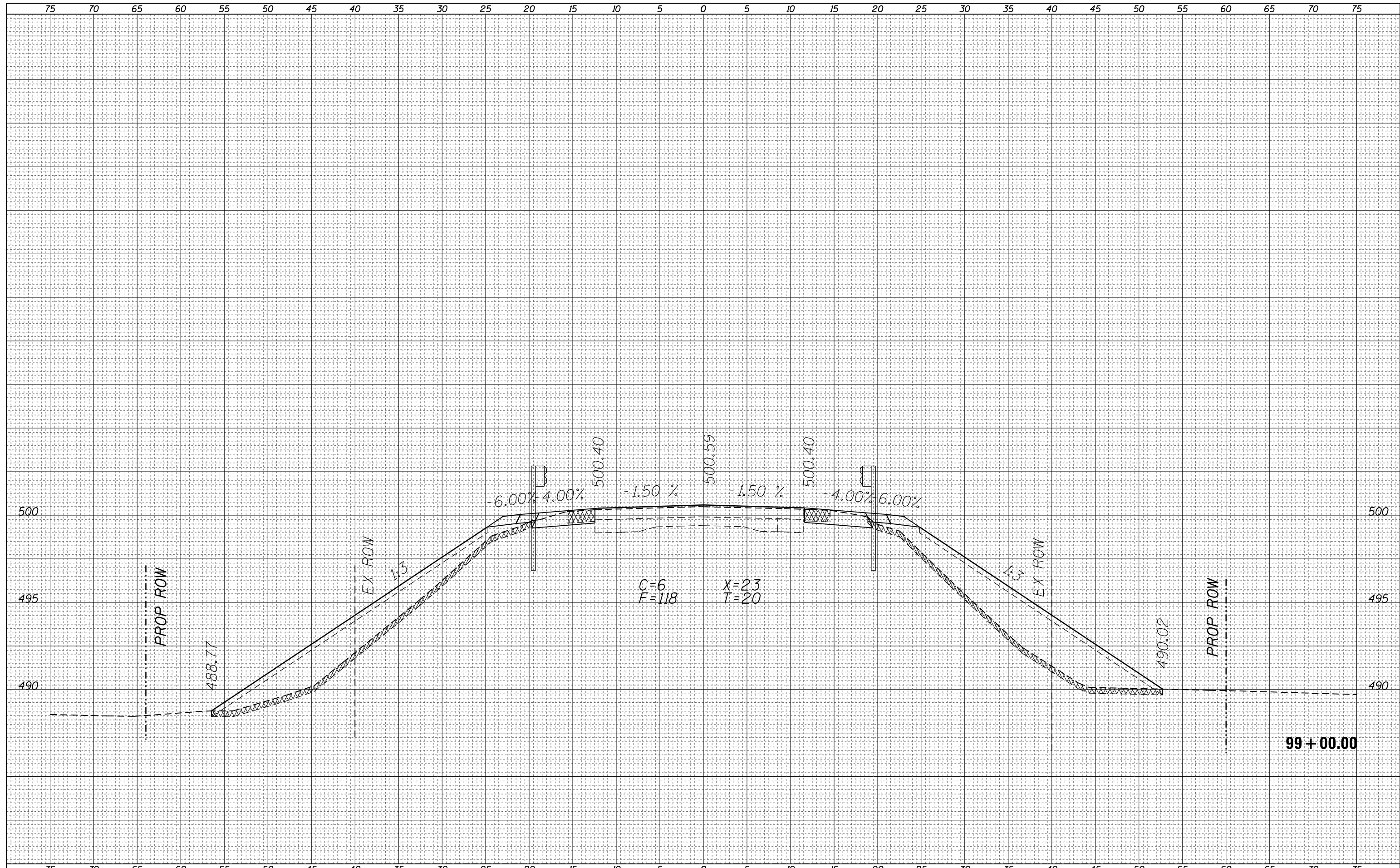
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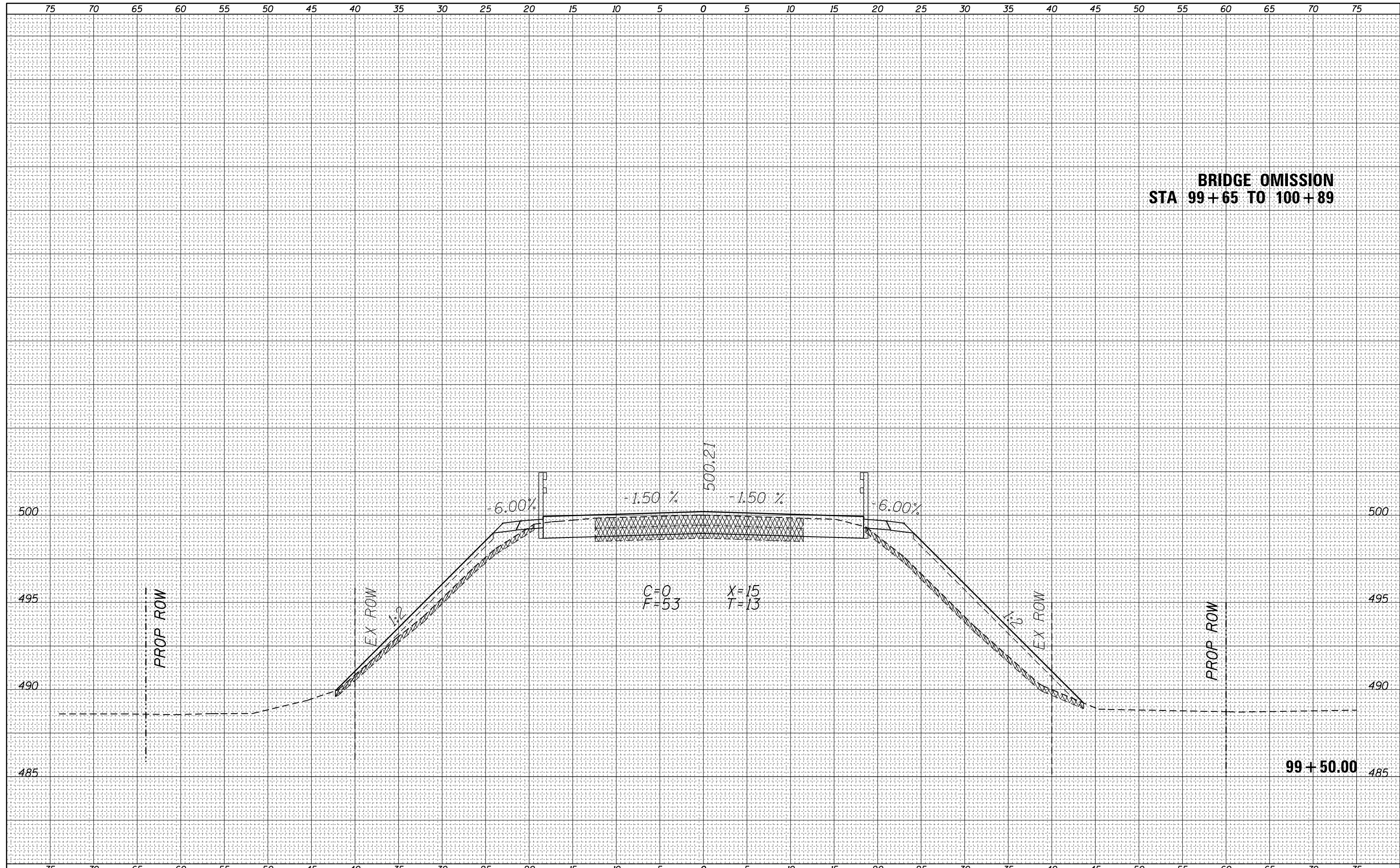
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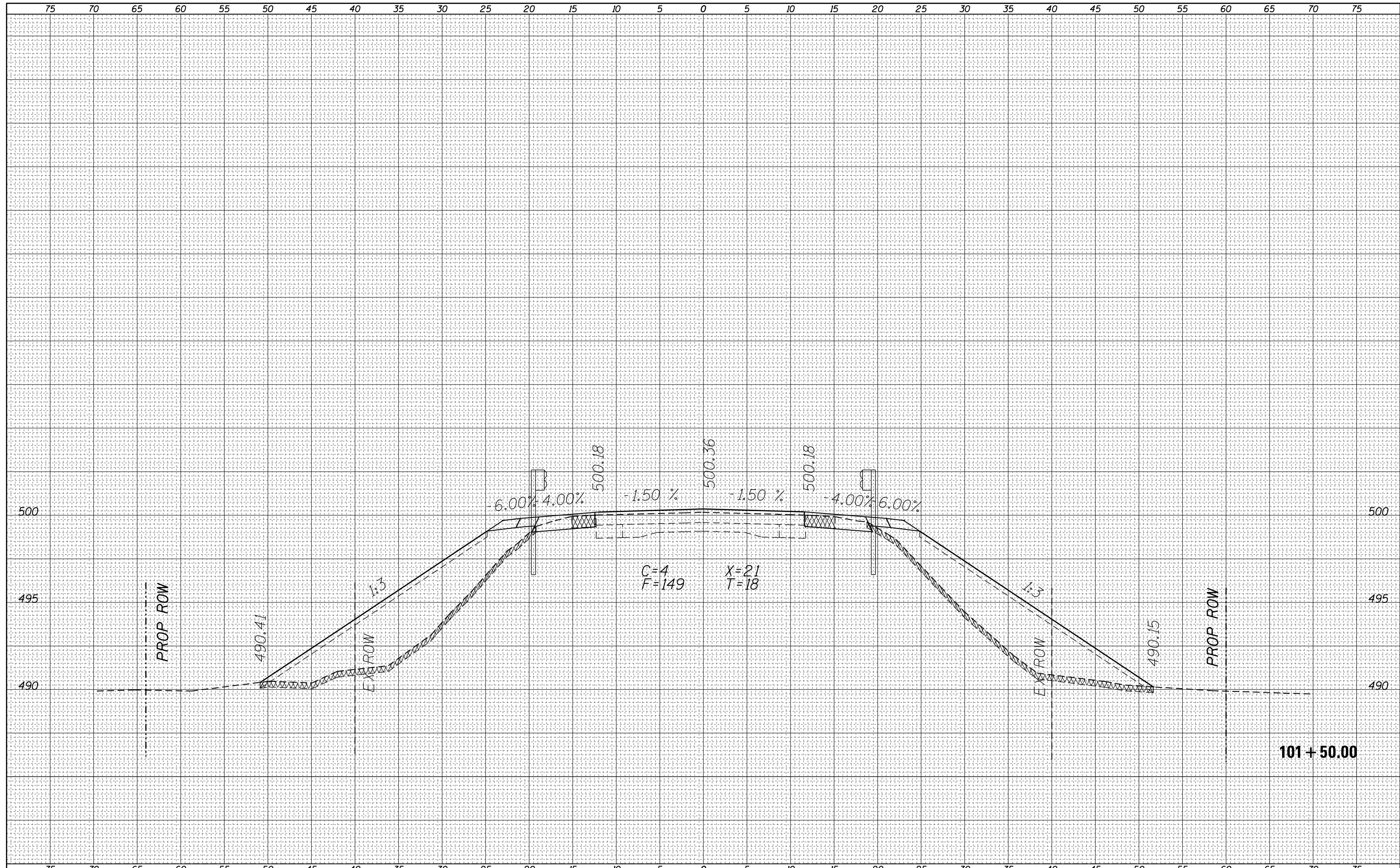
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STA 99+65 TO 100+89

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Default	DATE -	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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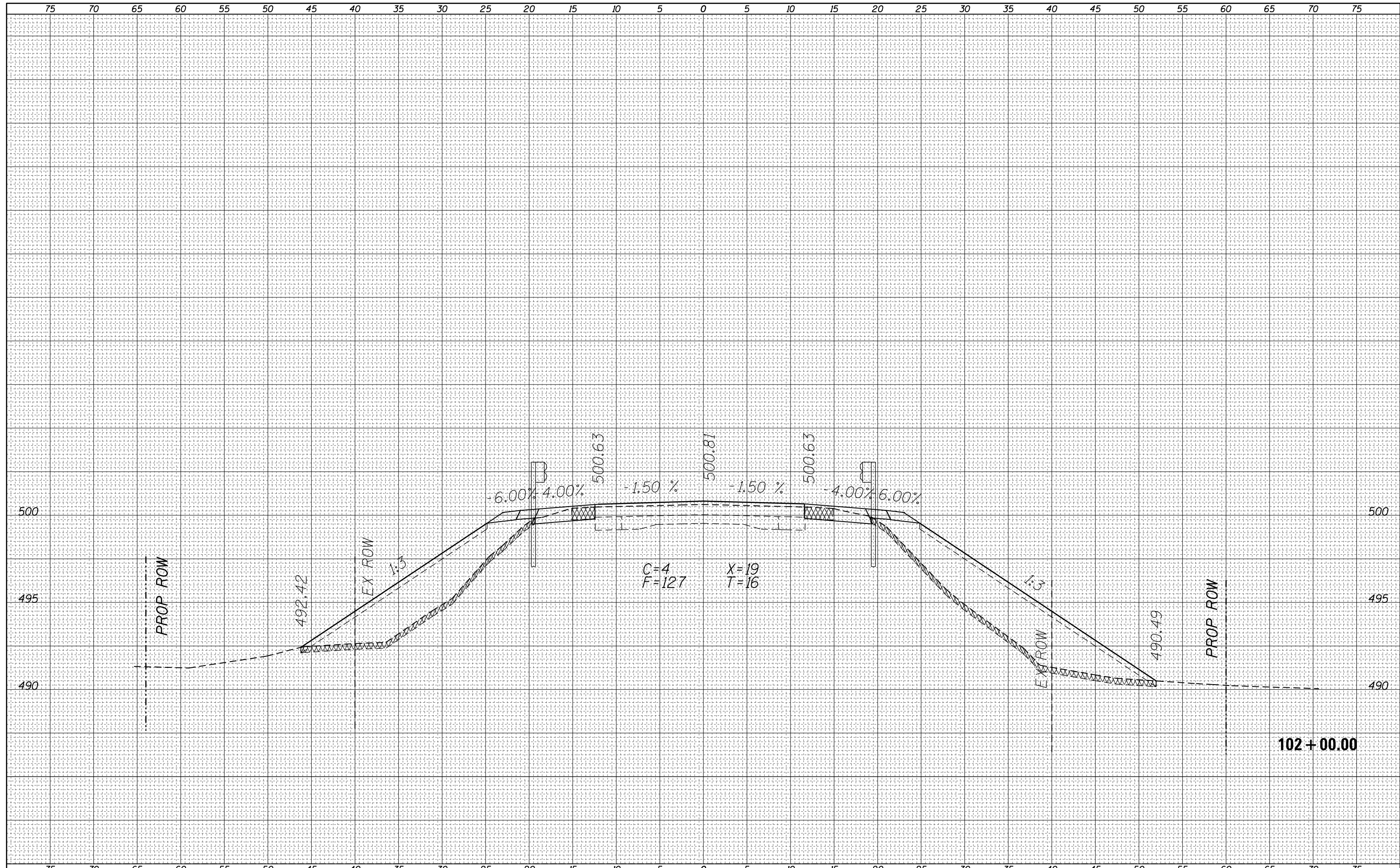
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FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 8/10/2016												

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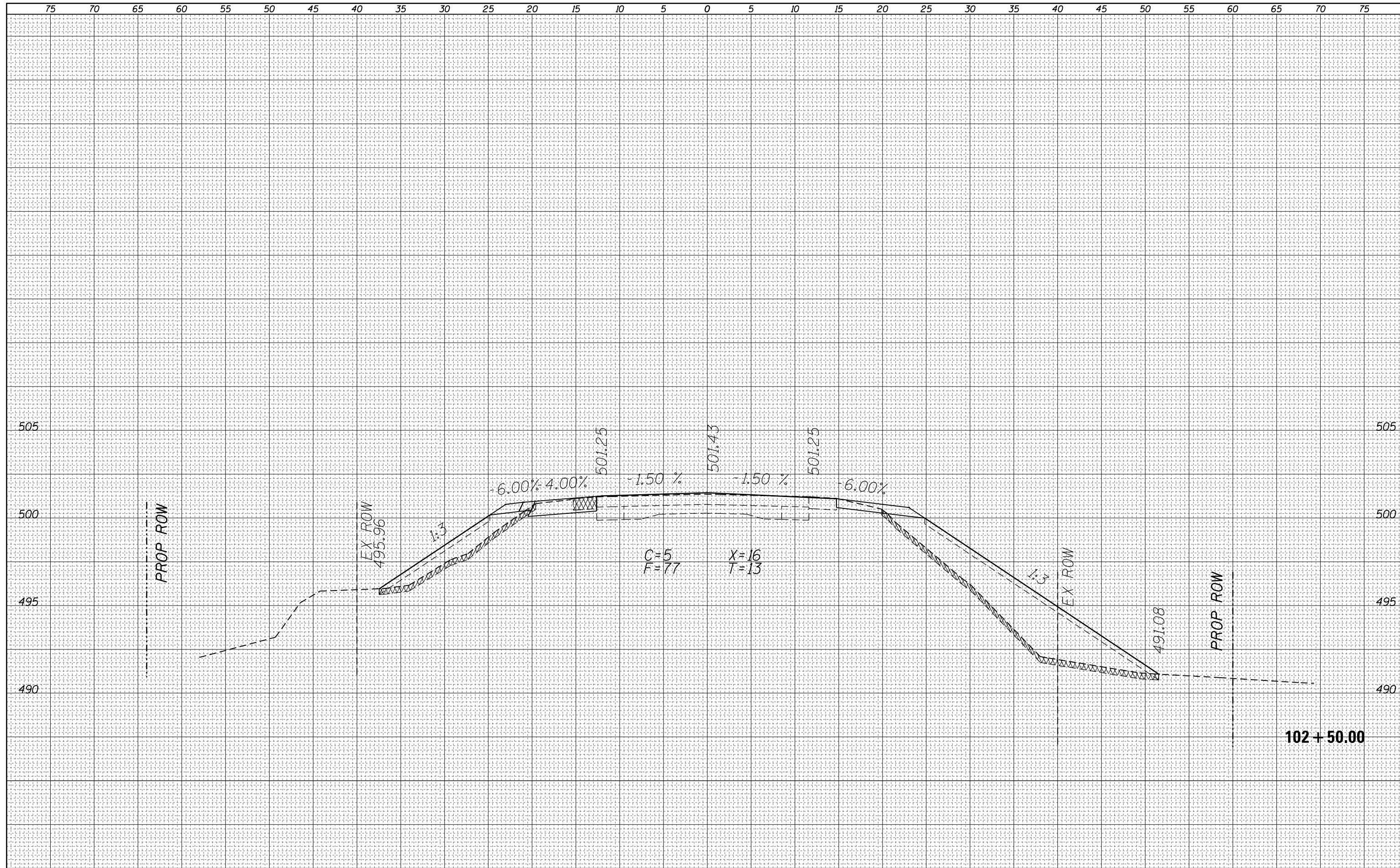
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NOTE BOOK	PLOTTED
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