

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	1
		ILLINOIS	CONTRACT NO. 78149	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 5-11

PROPOSED HIGHWAY PLANS

FAS ROUTE 2826 (IL 37)
SECTION 2B-2
PROJECT STP-HLMQ(103)
BRIDGE REPLACEMENT
JEFFERSON COUNTY

C-99-003-10

TRAFFIC DATA

ROUTE	ADT	% TRUCKS
IL 37	3550(2015)	7.9%

TOWNSHIPS

SPRING GARDEN

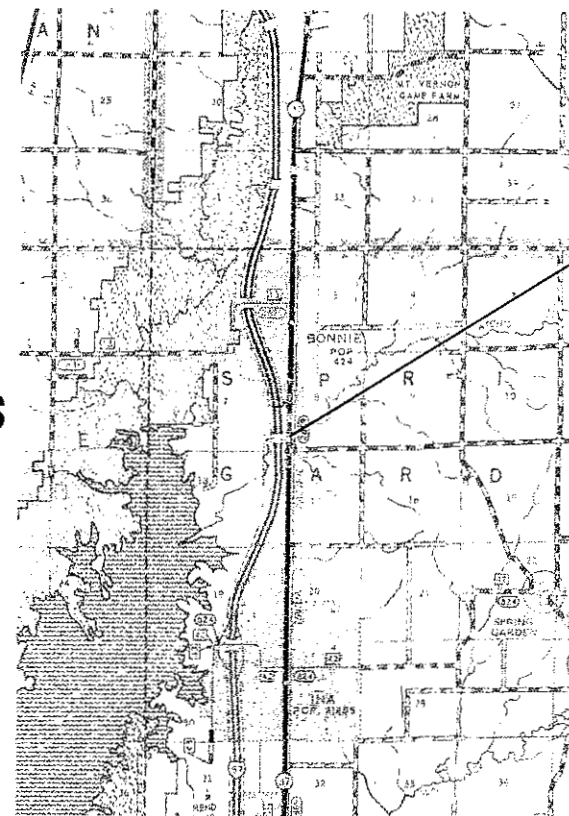
POSTED SPEED : 55 MPH

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

PROJECT ENGINEER CHARLES STEIN
PROJECT DESIGNER LISA PRITCHETT

CONTRACT NO. 78149

T4S



R3E

EXISTING SN 041-0036
PROPOSED SN 041-0110
BEGIN: STA. 425 + 37
END: STA. 433 + 87

GROSS LENGTH = 850.00 FT. = 0.16 MILES
NET LENGTH = 850.00 FT. = 0.16 MILES

D-99-003-10



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 13 2017

Jeffrey Z Keem
REGION FIVE ENGINEER

Feb 2 2019
Adm ENGINEER OF DESIGN AND ENVIRONMENT

Feb 2 2019
Paul P. [Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Prepared By:



DISTRICT STUDIES & PLANS ENGINEER

Examined By:



DISTRICT LAND ACQUISITION ENGINEER

Examined By:



DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:



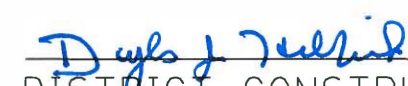
DISTRICT OPERATIONS ENGINEER

Examined By:



DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:



DISTRICT CONSTRUCTION ENGINEER

Examined By:



DISTRICT MATERIALS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SSIGNATURE SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	2
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

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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
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD 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
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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USER NAME = pritchettll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS STANDARDS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		2826	2B-2	JEFFERSON	59	3		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -				CONTRACT NO. 78149				
PLOT DATE = 12/14/2017	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USES(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70
AC/PG:	PG64-22
ABR % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-9.5MM
FRICITION AGGREGATE:	C SURFACE
MIXTURE WEIGHT:	112 LBS/ SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QCQA
SUBLOT SIZE:	N/A

LOCATION(S):	HOT-MIX ASPHALT LEVELING BINDER AND BASE COURSE WIDENING
MIXTURE USES(S):	HOT-MIX ASPHALT LEVELING BINDER, N70, IL-19.0
AC/PG:	PG64-22
ABR % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-9.5MM FINE GRADED
FRICITION AGGREGATE:	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)
MIXTURE USES(S):	HOT-MIX ASPHALT SURFACE COURSE, N30, IL-9.5L
AC/PG:	PG64-22
ABR % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-9.5L
FRICITION AGGREGATE:	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS (LOWER LIFTS)
MIXTURE USES(S):	HOT-MIX ASPHALT BINDER COURSE, N30, IL-19.0L
AC/PG:	PG64-22
ABR % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-19.0L
FRICITION AGGREGATE:	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	N/A

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED

THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE

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

EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE BINDER COURSE, AND SURFACE COURSE

IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL HAVE TACK COAT APPLIED ACCORDING TO SECTION 406, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.

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

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

THE CONTRACTOR SHALL STAMP STATIONING IN THE PROPOSED HOT MIX ASPHALT SURFACE AT 300 FT INTERVALS ON ALTERNATING SIDES OF THE PAVEMENT AND AS DIRECTED BY THE ENGINEER. THE STATION SYMBOL STAMPS USED SHALL BE FURNISHED BY THE CONTRACTOR.

HMA RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 2,000 FT, THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN,

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

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

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

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

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

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MIXTURE REQUIREMENTS GENERAL NOTES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	4
			CONTRACT NO. 78149	
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

COUNTY: COUNTY: JEFFERSON JEFFERSON
 ROUTE: ROUTE: FAS 2826 (IL 37) FAS 2826 (IL 37)
 FUNDING: FUNDING: 80% FEDERAL, 20% STATE 80% FEDERAL, 20% STATE
 LOCATION: LOCATION: RURAL RURAL
 ROADWAY BRIDGE
 0005 0010

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	RURAL ROADWAY 0005	RURAL BRIDGE 0010
20200100	EARTH EXCAVATION	CU YD	104.0	104.0	
20400800	FURNISHED EXCAVATION	CU YD	59.0	59.0	
25000210	SEEDING, CLASS 2A	ACRE	0.4	0.4	
25000350	SEEDING, CLASS 7	ACRE	0.4	0.4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36	36	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36	36	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36	36	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.8	0.8	
25100630	EROSION CONTROL BLANKET	SQ YD	741	741	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40	
28000400	PERIMETER EROSION BARRIER	FOOT	1,385	1,385	
28100107	STONE RIPRAP, CLASS A4	SQ YD	793		793

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PLOT DATE = 12/14/2017		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE. 2826	SECTION 2B-2	COUNTY JEFFERSON	TOTAL SHEETS 59	SHEET NO. 5
CONTRACT NO. 78149				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES - CON

COUNTY:	COUNTY:	JEFFERSON	JEFFERSON
ROUTE:	ROUTE:	FAS 2826 (IL 37)	FAS 2826 (IL 37)
FUNDING:	FUNDING:	80% FEDERAL, 20% STATE	80% FEDERAL, 20% STATE
LOCATION:	LOCATION:	RURAL	RURAL
	TOTAL QUANTITY	ROADWAY 0005	BRIDGE 0010

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0005	BRIDGE 0010
28200200	FILTER FABRIC	SQ YD	793		793
35600719	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 3/4"	SQ YD	252	252	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	209	209	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	138	138	
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	959	959	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	126	126	
44000100	PAVEMENT REMOVAL	SQ YD	336	336	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	907	907	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	92	92	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	192.0		192.0
50200300	COFFERDAM EXCAVATION	CU YD	24.0		24.0

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	6
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CON

COUNTY:	COUNTY:	JEFFERSON	JEFFERSON
ROUTE:	ROUTE:	FAS 2826 (IL 37)	FAS 2826 (IL 37)
FUNDING:	FUNDING:	80% FEDERAL, 20% STATE	80% FEDERAL, 20% STATE
LOCATION:	LOCATION:	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	RURAL ROADWAY	RURAL BRIDGE
				0005	0010
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50300100	FLOOR DRAINS	EACH	16		16
50300225	CONCRETE STRUCTURES	CU YD	109.5		109.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	205.0		205.0
50300260	BRIDGE DECK GROOVING	SQ YD	766		766
50300300	PROTECTIVE COAT	SQ YD	960		960
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	107.3		107.3
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	3,003		3,003
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	100,030		100,030
50800515	BAR SPLICERS	EACH	766		766
51202100	FURNISHING STEEL PILES HP14X117	FOOT	910		910

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	7
CONTRACT NO. 78149			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES - CON

COUNTY:	COUNTY:	JEFFERSON	JEFFERSON
ROUTE:	ROUTE:	FAS 2826 (IL 37)	FAS 2826 (IL 37)
FUNDING:	FUNDING:	80% FEDERAL, 20% STATE	80% FEDERAL, 20% STATE
LOCATION:	LOCATION:	RURAL	RURAL
		ROADWAY	BRIDGE
		0005	0010

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		
51202305	DRIVING PILES	FOOT	504		504
51204100	TEST PILE STEEL HP14X117	EACH	2		2
51500100	NAME PLATES	EACH	1		1
52100520	ANCHOR BOLTS, 1"	EACH	42		42
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	365		365
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	519	519	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	607	607	
67100100	MOBILIZATION	LSUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	2	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	

* SPECIALTY ITEM

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USER NAME = pritchettll	DESIGNED -	REVISED -																							
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F.A.S. RTE. 2826	SECTION 28-2	COUNTY JEFFERSON	TOTAL SHEETS 59	SHEET NO. 8																					
CONTRACT NO. 78149			ILLINOIS FED. AID PROJECT																						

SUMMARY OF QUANTITIES - CON

COUNTY: COUNTY: JEFFERSON JEFFERSON
 ROUTE: ROUTE: FAS 2826 (IL 37) FAS 2826 (IL 37)
 FUNDING: FUNDING: 80% FEDERAL, 20% STATE 80% FEDERAL, 20% STATE
 LOCATION: LOCATION: RURAL RURAL
 ROADWAY BRIDGE
 0005 0010

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	RURAL ROADWAY 0005	RURAL BRIDGE 0010
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	2	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	176	176	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	59	59	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,920	1,920	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	475	475	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	475	475	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	9
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CON

COUNTY: COUNTY: JEFFERSON JEFFERSON
 ROUTE: ROUTE: FAS 2826 (IL 37) FAS 2826 (IL 37)
 FUNDING: FUNDING: 80% FEDERAL, 20% STATE 80% FEDERAL, 20% STATE
 LOCATION: LOCATION: RURAL RURAL
 ROADWAY BRIDGE
 0005 0010

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,920	1,920	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	24	24	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	7	7	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	202	202	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	787	787	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	135.0		135.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	71	71	

* SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	28-2	JEFFERSON	59	10
CONTRACT NO. 78149			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES - CON

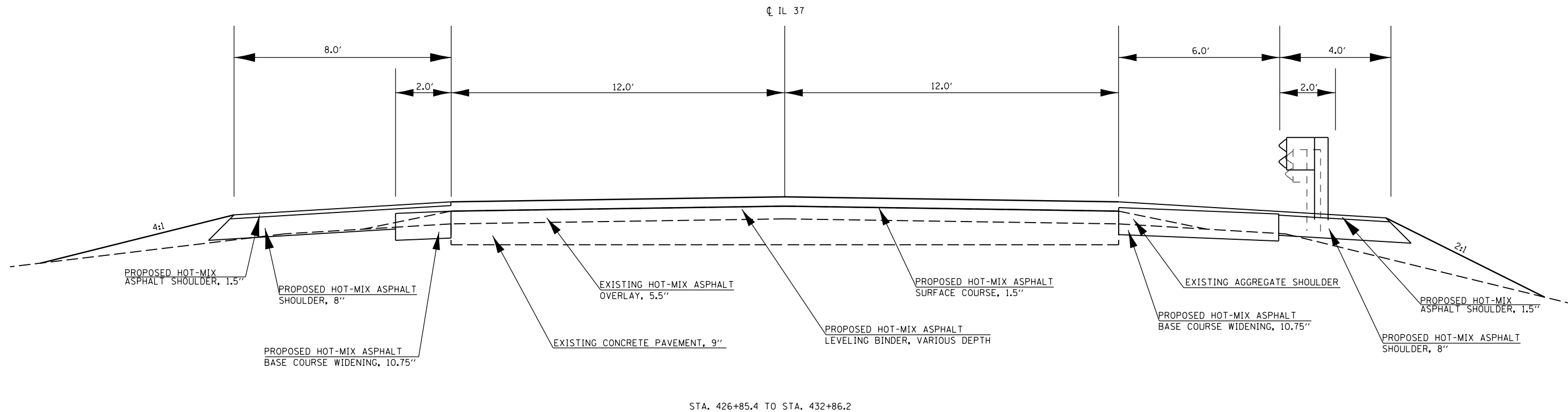
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ROUTE:	ROUTE:	FAS 2826 (IL 37)	FAS 2826 (IL 37)
FUNDING:	FUNDING:	80% FEDERAL, 20% STATE	80% FEDERAL, 20% STATE
LOCATION:	LOCATION:	RURAL	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	RURAL ROADWAY	RURAL BRIDGE
				0005	0010
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	12	12	
Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	142		142
Ø Z0076600	TRAINNEES	hour	500	500	
Z0065000	SETTING PILES IN ROCK	EACH	7		7
Ø Z0076604	TRAINNEES TRAINING PROGRAM GRADUATE	hour	500	500	

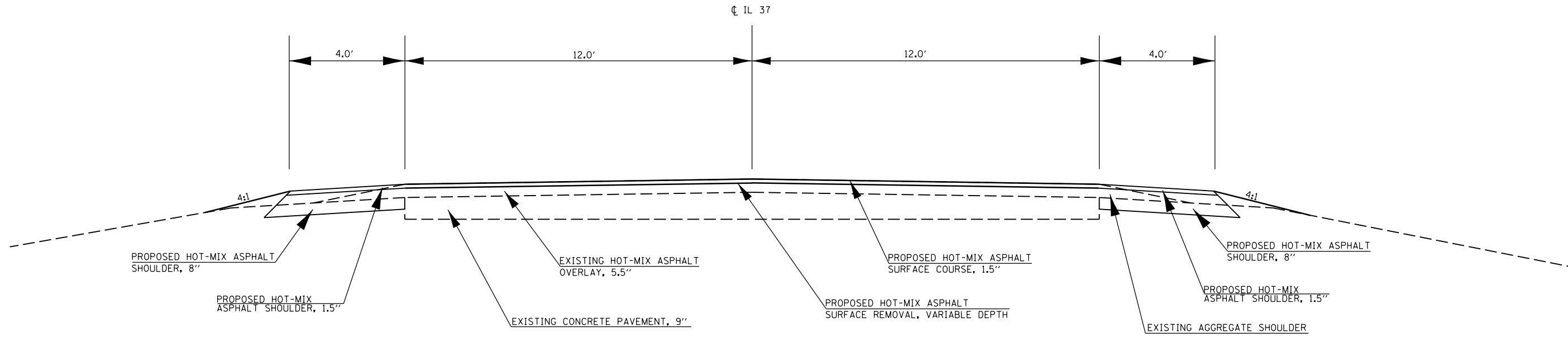
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STA. 426+85.4 TO STA. 432+86.2



STA. 425+37.0 TO STA. 426+85.4
STA. 432+86.2 TO STA. 433+87.0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	12
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION STA TO STA	EARTH EXCAVATION	FOR INFORMATION ONLY				FURNISHED EXCAVATION
		AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE	
		CU YD	CU YD	CU YD	WASTE (+) SHORTAGE (-) CU YD	
STAGE 1						
STA 425+37. TO STA 428+75.	5.4	75.0	4.1	0.0	4.1	
STA 430+50. TO STA 430+75.	7.7	75.0	5.8	0.0	5.8	
STAGE 2						
STA 425+37. TO STA 428+75.	26.3	75.0	19.7	40.3	-20.6	20.6
STA 430+50. TO STA 430+75.	22.6	75.0	17.0	30.3	-13.4	13.4
STAGE 3						
STA 425+37. TO STA 428+75.	21.1	75.0	15.8	26.5	-10.7	10.7
STA 430+50. TO STA 430+75.	20.7	75.0	15.5	30.1	-14.6	14.6
SUB-TOTAL	103.8					59.2

GUARDRAIL SCHEDULE

LOCATION STA TO STA	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS	GUARDRAIL REFLECTORS, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	TRAFFIC BARRIER TERMINAL, TYPE 6
	FOOT	FOOT	EACH	EACH	EACH	EACH
R STA 426+85.4 TO STA 428+86.2	200.8					
R STA 426+85.55 TO STA 428+41.8		156.25	3			
R STA 428+41.8 TO STA 428+81.8						1
LT STA 427+29. TO STA 427+79.				1	1	
LT STA 427+79. TO STA 428+41.5		62.5	2			
LT STA 428+22.2 TO STA 428+86.2	64.0					
LT STA 428+41.5 TO STA 428+81.5						1
LT STA 430+16.7 TO STA 431+56.	139.3					
LT STA 430+48.5 TO STA 430+88.5						1
LT STA 430+88.5 TO STA 432+26.		137.5	3			
LT STA 432+26. TO STA 432+76.				1	1	
RT STA 430+17.2 TO STA 432+19.7	202.5					
RT STA 430+17.2 TO STA 430+57.2						1
RT STA 430+57.2 TO STA 432+19.7		162.5	4			
TOTAL	606.6	518.8	12.0	2.0	2.0	4.0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EARTHWORK SCHEDULE
GUARDRAIL SCHEDULE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	13
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

LOCATION STA TO STA	PAINT PAVEMENT MARKING - LINE 4"		PAINT PAVEMENT MARKING - LINE 24"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
	SOLID	SKIP	WHITE	YELLOW	SQ FT	SQ FT	EACH	EACH
	WHITE	YELLOW		WHITE				
	FOOT	FOOT	FOOT	FOOT				
R STA 425+27.			12			3		
STA 425+37. TO STA 433+87.	1700.0	220		176	59	71	11	11
STA 425+37. TO STA 433+87. STAGE 2						63		
STA 425+37. TO STA 433+87. STAGE 3						63		
LT STA 433+97.			12			3		
SUB-TOTAL	1700.0	220.0	24.0	176.0	58.7	202.4	11.0	11.0
TOTAL	1920.0		24.0	176.0	58.7	202.4	11.0	11.0

SEEDING SCHEDULE

LOCATION STA TO STA	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING
	ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD	FOOT	POUND
LT STA 425+37. TO STA 428+84.								349	
LT STA 425+37. TO STA 428+94.	0.1	0.1	9	9	9	0.2	171		10
R STA 425+37. TO STA 428+84.								349	
R STA 425+37. TO STA 428+94.	0.1	0.1	9	9	9	0.2	205		10
LT STA 430+46. TO STA 433+87.								343	
LT STA 430+36. TO STA 433+87.	0.1	0.1	9	9	9	0.2	174		10
RT STA 430+46. TO STA 433+87.								345	
RT STA 430+36. TO STA 433+87.	0.1	0.1	9	9	9	0.2	191		10
TOTAL	0.4	0.4	36.0	36.0	36.0	0.8	740.7	1385.4	40.0

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USER NAME = pritchettll DRAWN - PLOT SCALE = 100,0000' / in. PLOT DATE = 12/14/2017	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING SCHEDULE SEEDING SCHEDULE	SCALE:	SHEET OF SHEETS STA. TO STA.	F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 2826 2B-2 JEFFERSON 59 14 CONTRACT NO. 78149
ILLINOIS FED. AID PROJECT							

RESURFACING SCHEDULE

LOCATION STA TO STA	AVG. DEPTH		AVG. WIDTH		HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1 1/2"	HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0, VARIOUS DEPTH	HOT-MIX ASPHALT, BASE COURSE WIDENING, 10 3/4"	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH								
	HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SHOULDERS, LEFT	HOT-MIX ASPHALT SHOULDERS, RIGHT	HOT-MIX ASPHALT BINDER COURSE, MIX C, N70, 1 1/2"										HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0, VARIOUS DEPTH	HOT-MIX ASPHALT, BASE COURSE WIDENING, 10 3/4"	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	FOR INFORMATION ONLY																				
	FOOT	FOOT	FOOT	TON	TON	SQ YD	SQ YD	TON	POUND	SQ YD	SQ YD	SQ YD									
STA 425+37. TO STA 426+71.6													359								
STA 425+37. TO STA 428+49.				69.9					187												
LT STA 425+37. TO STA 427+04.4		4.0					74.4	6.2													
RT STA 425+37. TO STA 426+85.4			4.0				66.0	5.5													
STA 426+71.6 TO STA 427+05.	0.0625				3.7				40				89								
LT STA 427+04.4 TO STA 427+19.		7.7					12.5	1.0													
RT STA 426+85.4 TO STA 427+25.			12.5				55.0	4.6													
STA 427+05. TO STA 427+25.	0.0963				3.5																
STA 427+05. TO STA 427+41.8									22												
STA 427+25. TO STA 427+50.	0.1725				7.7																
RT STA 427+25. TO STA 428+58.			4.7				69.5	13.2													
LT STA 427+19. TO STA 427+79.		10.5					70.0	5.9													
RT STA 427+25. TO STA 428+64.						92.7															
STA 427+41.8 TO STA 427+93.									61												
STA 427+50. TO STA 427+75.	0.2642				11.8																
LT STA 427+65. TO STA 428+86.4						27.0															
STA 427+75. TO STA 428+00.	0.3592				16.1																
LT STA 427+79. TO STA 428+58.		9.8					86.0	7.2													
STA 427+93. TO STA 428+39.6									84												
STA 428+00. TO STA 428+25.	0.4283				19.2																
STA 428+25. TO STA 428+49.	0.5533				23.8																
STA 428+39.6 TO STA 428+58.									44												
STA 428+49. TO STA 428+64.										63											
STA 428+54. TO STA 428+94.											168										
RT STA 428+58. TO STA 428+69.			2.8				3.4	0.3													
LT STA 428+58. TO STA 428+69.		2.8					3.4	0.3													
LT STA 428+69. TO STA 428+79.		1.7					1.9	0.2													
RT STA 428+69. TO STA 428+94.			1.8				5.0	0.4													
SUB-TOTAL				69.9	85.8	119.6	447.1	44.9	438.8	63.1	168.0	448.0									

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESURFACING SCHEDULE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	15
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE

LOCATION STA TO STA	AVG. DEPTH		AVG. WIDTH		HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1 1/2"	HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0, VARIOUS DEPTH	HOT-MIX ASPHALT, BASE COURSE WIDENING, 10 3/4"	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH								
	HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SHOULDERS, LEFT	HOT-MIX ASPHALT SHOULDERS, RIGHT	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1 1/2"										HOT-MIX ASPHALT BINDER COURSE, N70, IL-19.0, VARIOUS DEPTH	HOT-MIX ASPHALT, BASE COURSE WIDENING, 10 3/4"	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (TACK COAT)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
	FOR INFORMATION ONLY			TON										TON	SQ YD	SQ YD	TON	POUND	SQ YD	SQ YD	SQ YD
FOOT	FOOT	FOOT	TON	TON	SQ YD	SQ YD	TON	POUND	SQ YD	SQ YD	SQ YD										
LT STA 430+16. TO STA 431+65.						33.1															
STA 430+36. TO STA 430+76.											168										
RT STA 430+36. TO STA 430+61.			1.9					5.3	0.4												
LT STA 430+51. TO STA 430+61.		1.7						1.9	0.2												
LT STA 430+61. TO STA 430+72.		2.8						3.4	0.3												
RT STA 430+61. TO STA 430+72.			2.8					3.4	0.3												
RT STA 430+66. TO STA 432+15.						99.3															
STA 430+66. TO STA 430+81.											63										
STA 430+72. TO STA 431+27.1										132											
RT STA 430+72. TO STA 432+19.7			5.1					83.7	15.3												
LT STA 430+72. TO STA 432+26.		9.7						166.0	13.9												
STA 430+81. TO STA 433+87.				68.5						184											
STA 430+81. TO STA 431+00.	0.7204																				
STA 431+00. TO STA 431+25.	0.6250																				
STA 431+25. TO STA 431+50.	0.5200																				
STA 431+27.1 TO STA 431+69.2										76											
STA 431+50. TO STA 431+75.	0.4063																				
STA 431+69.2 TO STA 432+07.6										46											
STA 431+75. TO STA 432+00.	0.2863																				
STA 432+00. TO STA 432+25.	0.1613																				
STA 432+07.6 TO STA 432+60.										31											
LT STA 432+26. TO STA 432+86.2		10.6						70.9	6.0												
RT STA 432+19.7 TO STA 433+87.			4.0					74.4	6.2												
STA 432+25. TO STA 432+50.	0.0813																				
STA 432+50. TO STA 432+60.	0.0638																				
STA 432+60. TO STA 433+02.6	0.0625									51			114								
LT STA 432+86.2 TO STA 433+00.6		7.6						12.2	1.0												
STA 433+02.6 TO STA 433+87.													225								
LT STA 433+00.6 TO STA 433+87.		4.0						38.4	3.2												
SUB-TOTAL				68.5	123.6	132.4	459.5	46.9	520.3	63.1	168.0	338.7									
SUB-TOTAL				69.9	85.8	119.6	447.1	44.9	438.8	63.1	168.0	448.0									
TOTAL				138	209	252	907	92	959	126	336	787									

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESURFACING SCHEDULE

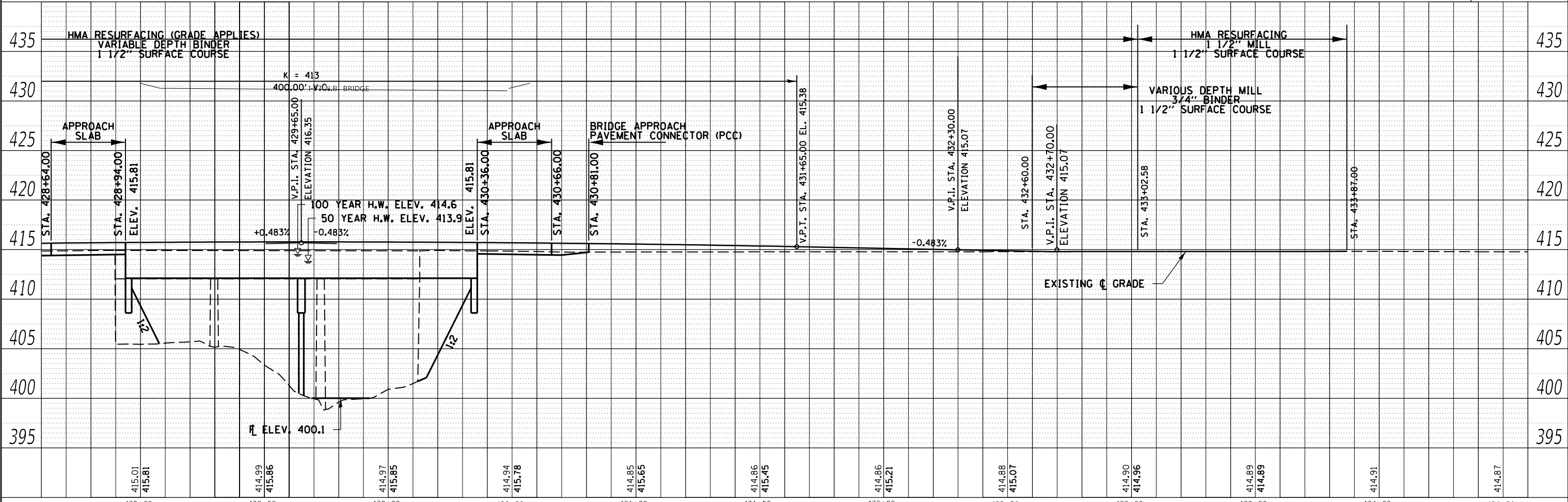
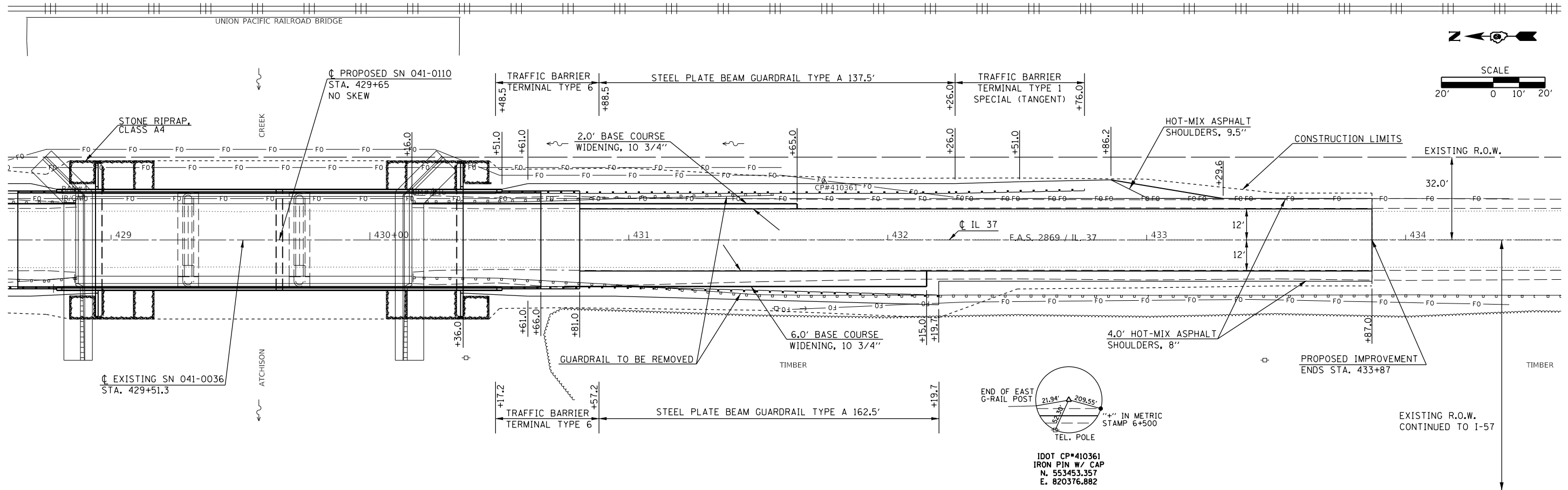
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	16
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

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	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVISED	DATE
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	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 37 PLAN AND PROFILE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	18
				CONTRACT NO. 78149
				ILLINOIS FED. AID PROJECT

STAGE 1 GENERAL NOTES

1. STAGE 1 CONSTRUCTION SHALL INCLUDE THE COMPLETION OF THE BASE COURSE WIDENING FROM LT STA. 427+65 TO LT STA. 428+86.4 AND FROM LT STA. 430+16 TO LT STA. 431+65 AS SHOWN ON THIS SHEET.
2. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701326. SEE STANDARD 701326 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES BUT IS NOT LIMITED TO, ADVANCED SIGNING, AND BARRICADES.

STAGE 2 GENERAL NOTES

1. 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.
2. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
3. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
4. ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. 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.
6. THE STAGE 2 CONSTRUCTION SHALL INCLUDE THE COMPLETION OF THE EARTHWORK, BASE COURSE WIDENING, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS FROM RT STA 425+37 TO RT STA 433+87 AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS. THE BINDER COURSE 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 BINDER COURSE 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 2 CONSTRUCTION TO MEET THESE REQUIREMENTS. THE COST ASSOCIATED WITH THE STAGING OF THE HMA RESURFACING, INCLUDING THE TEMPORARY RAMP, WILL NOT BE PAID FOR SEPERATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.

STAGE 3 GENERAL NOTES

1. 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.
2. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
3. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
4. ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. 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.
6. 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.
7. THE STAGE 3 CONSTRUCTION SHALL INCLUDE THE COMPLETION OF THE EARTHWORK, HMA SHOULDERS, GUARDRAIL AND TRAFFIC BARRIER TERMINALS FROM LT STA 425+37 TO LT STA 433+87 AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS. THE BINDER COURSE 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 BINDER COURSE 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 3 CONSTRUCTION TO MEET THESE REQUIREMENTS. THE COST ASSOCIATED WITH THE STAGING OF THE HMA RESURFACING, INCLUDING THE TEMPORARY RAMP, WILL NOT BE PAID FOR SEPERATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.
8. 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.
9. 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 SEPERATELY BUT WILL BE INCLUDED IN THE COST OF VARIOUS HMA PAY ITEMS INCLUDED IN THE PLANS.

STAGE 4 GENERAL NOTES

1. STAGE 4 CONSTRUCTION SHALL INCLUDE THE COMPLETION OF THE SURFACE COURSE FROM STA. 425+37 TO STA. 433+87.
2. TRAFFIC CONTROL SHALL BE ERECTED IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701306. SEE STANDARD 701306 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES BUT IS NOT LIMITED TO ADVANCED SIGNING.

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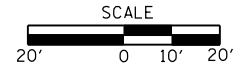
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	19
CONTRACT NO. 78149				
		ILLINOIS	FED. AID PROJECT	



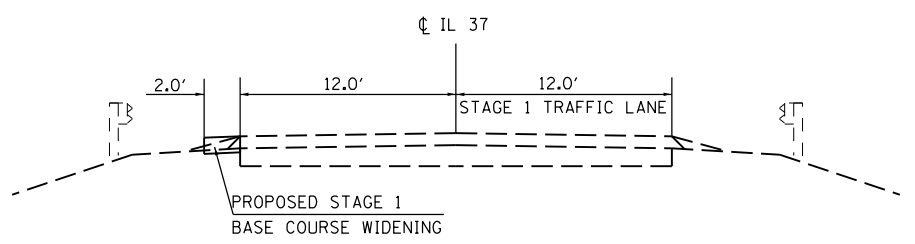
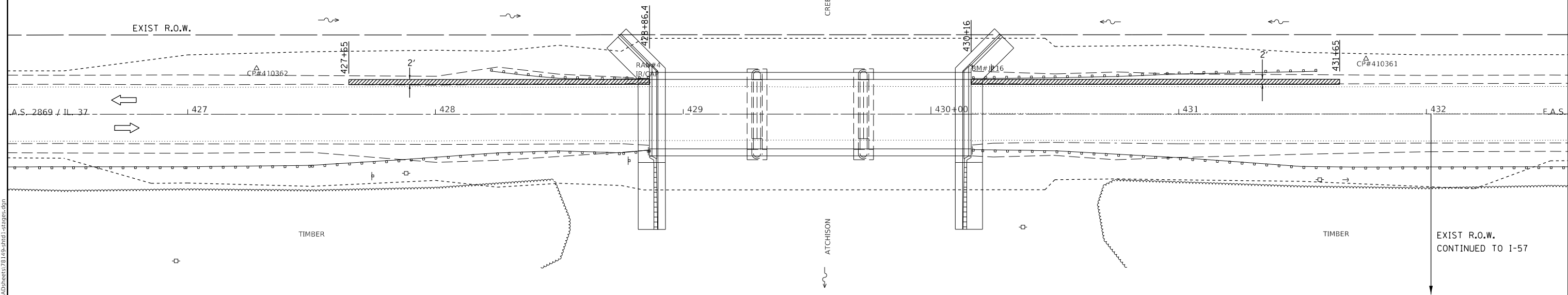
UNION PACIFIC RAILROAD BRIDGE

CREEK

ATCHISON

EXIST R.O.W.

EXIST R.O.W. CONTINUED TO I-57



 BASE COURSE WIDENING, 10 3/4"

STAGE 1 TYPICAL

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







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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 PLAN VIEW IL 37				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	20
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

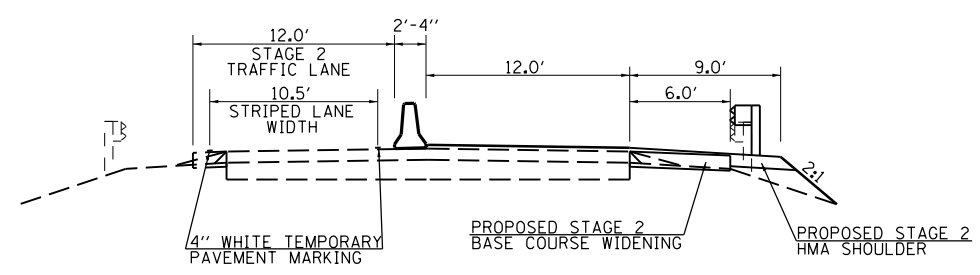
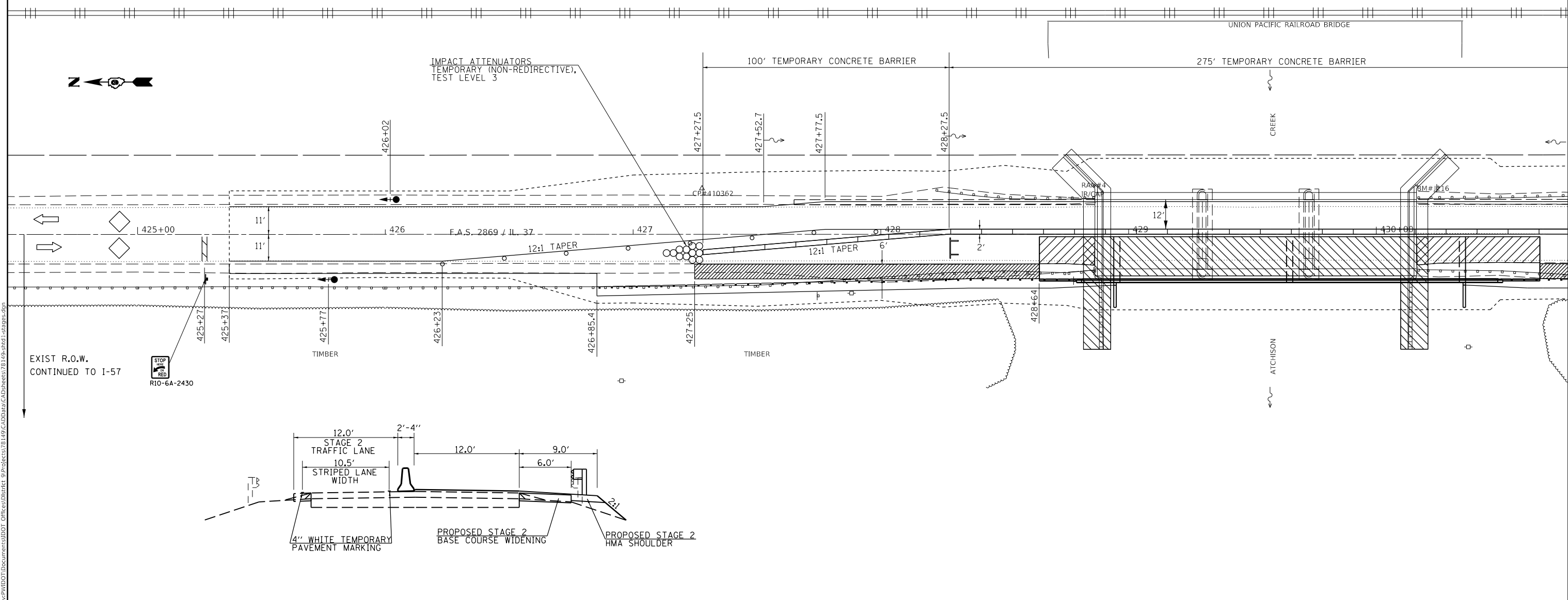
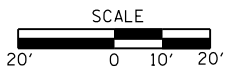
LEGEND

-  DIRECTION OF TRAFFIC
-  TRAFFIC SIGNAL WITH BLACKPLATE, SIGNAL DIRECTION INDICATED
-  DETECTOR LOOP
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  BASE COURSE WIDENING, 10 3/4"
-  EXISTING PAVEMENT REMOVAL
-  EXISTING STRUCTURE REMOVAL

SCHEDULE OF QUANTITIES

STATION O/S	TO	STATION O/S	FEET
427+27.5, 6' RT	TO	428+27.5, 2' LT	100'
428+27.5, 2' LT	TO	431+02.5, 2' LT	275'
431+02.5, 2' LT	TO	432+02.5, 6' RT	100'
TOTAL =			475'

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	- 6 EACH
BARRIER WALL REFLECTORS, TYPE C	- 7 EACH



STAGE 2 TYPICAL

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







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

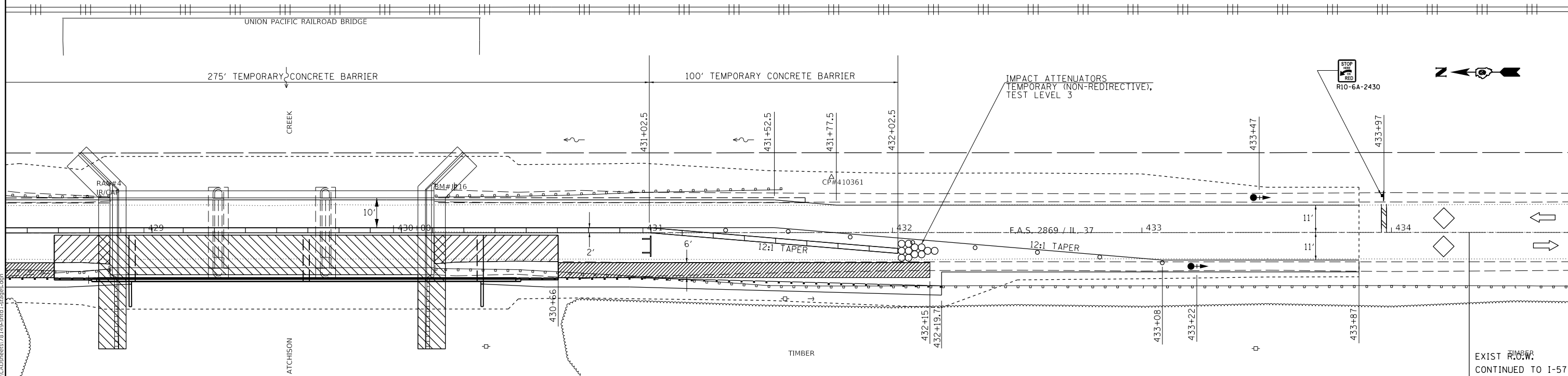
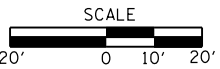
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**STAGE 2 PLAN VIEW
IL 37**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	21
CONTRACT NO. 78149				
		ILLINOIS	FED. AID PROJECT	

LEGEND

-  DIRECTION OF TRAFFIC
-  TRAFFIC SIGNAL WITH BLACKPLATE, SIGNAL DIRECTION INDICATED
-  DETECTOR LOOP
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  BASE COURSE WIDENING, 10 3/4"
-  EXISTING PAVEMENT REMOVAL
-  EXISTING STRUCTURE REMOVAL



**MAX WIDTH
XX'-XX"
X MILES
AHEAD**

W12-I103

NOTES FOR MAX WIDTH SIGNING:
 THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATION DIRECTED BY THE ENGINEER.
 ALL SIGNS SHALL BE POST MOUNTED.
 THE NOTED WORK, INCLUDING SIGN, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 AND NO OTHER COMPENSATION WILL BE ALLOWED.
 THE "X" AHEAD WILL BE DETERMINED BY THE ENGINEER.
 ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.
 THE DIMENSION "XX'-XX'" SHALL BE 10'-6".

EXIST PAVEMENT REMOVAL CONTINUED TO I-57

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







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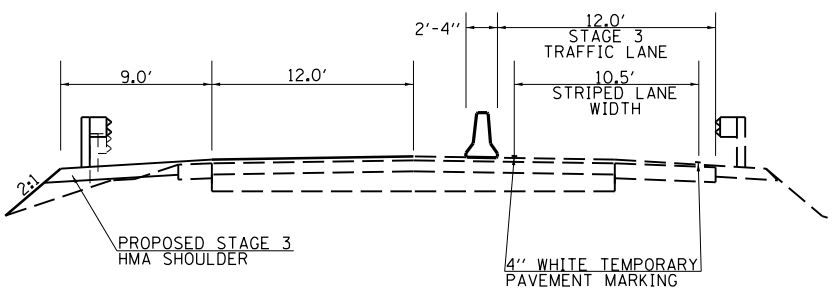
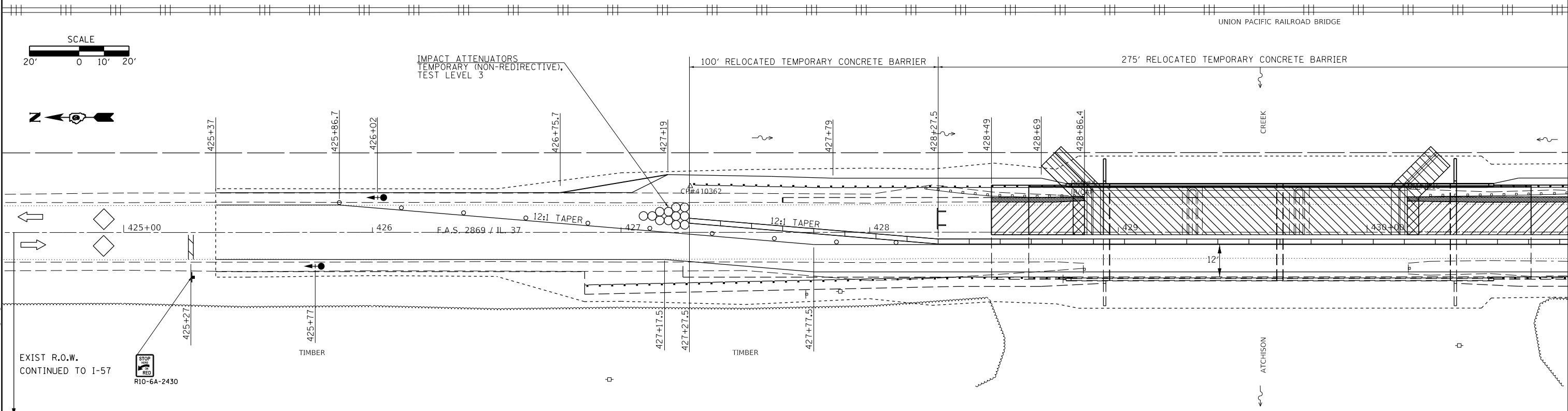
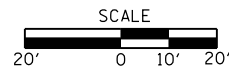
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 PLAN VIEW IL 37	
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2826	2B-2	JEFFERSON	59	22
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

LEGEND

-  DIRECTION OF TRAFFIC
-  TRAFFIC SIGNAL WITH BLACKPLATE, SIGNAL DIRECTION INDICATED
-  DETECTOR LOOP
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  EXISTING PAVEMENT REMOVAL
-  EXISTING STRUCTURE REMOVAL
-  BASE COURSE WIDENING REMOVAL



STAGE 3 TYPICAL

SCHEDULE OF QUANTITIES

STATION O/S	TO STATION O/S	FEET
427+27.5, 5.7' LT	TO 428+27.5, 2.7' RT	100'
428+27.5, 2.7' RT	TO 431+02.5, 2.7' RT	275'
431+02.5, 2.7' RT	TO 432+02.5, 5.7' LT	100'
TOTAL =		475'

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

PINNING TEMPORARY CONCRETE BARRIER - 6 EACH

1-57 N.B. BRIDGE

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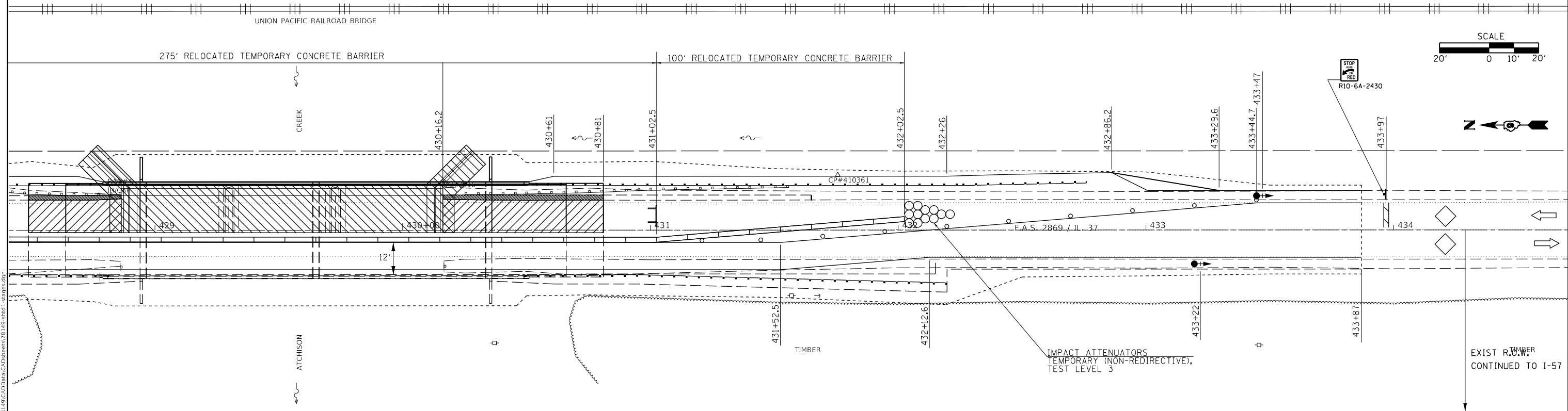
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 3 PLAN VIEW IL 37				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	23
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

LEGEND

- ➔ DIRECTION OF TRAFFIC
- ⬄• TRAFFIC SIGNAL WITH BLACKPLATE, SIGNAL DIRECTION INDICATED
- ◇ DETECTOR LOOP
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ⊥ TYPE III BARRICADE
- ▨ EXISTING PAVEMENT REMOVAL
- ▧ EXISTING STRUCTURE REMOVAL
- ▩ BASE COURSE WIDENING REMOVAL



**MAX WIDTH
XX'-XX"
X MILES
AHEAD**

W12-I103

NOTES FOR MAX WIDTH SIGNING:
 THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATION DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
 THE NOTED WORK, INCLUDING SIGN, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 AND NO OTHER COMPENSATION WILL BE ALLOWED.
 THE "X" AHEAD WILL BE DETERMINED BY THE ENGINEER.
 ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.
 THE DIMENSION "XX'-XX'" SHALL BE 10'-6".

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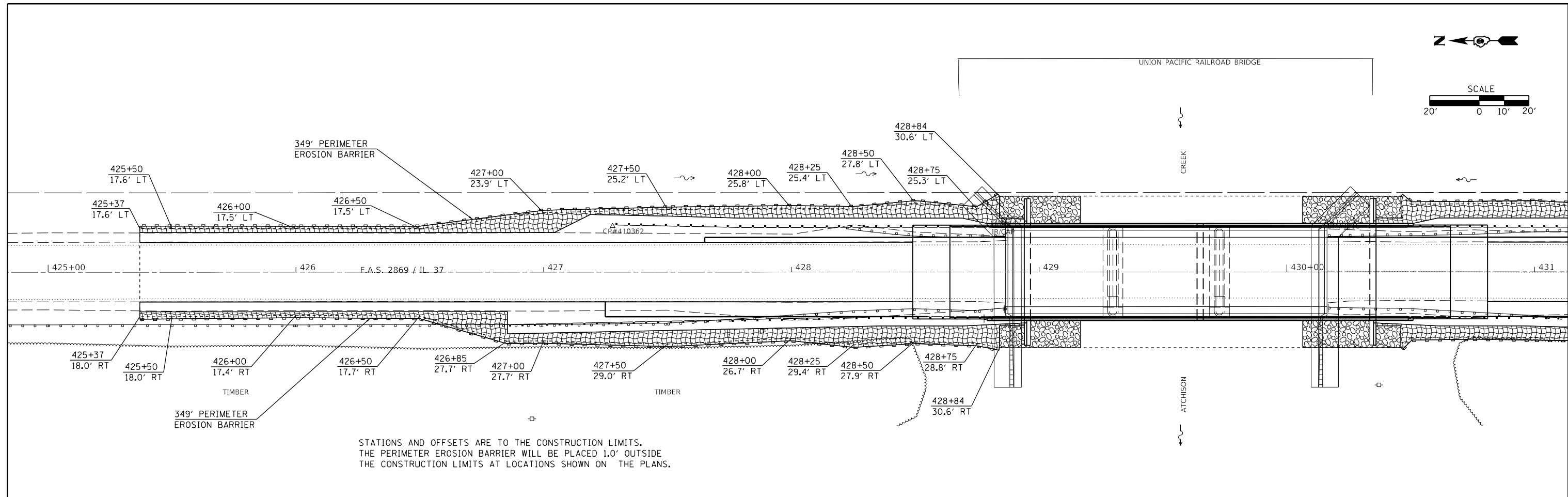
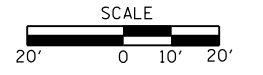
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

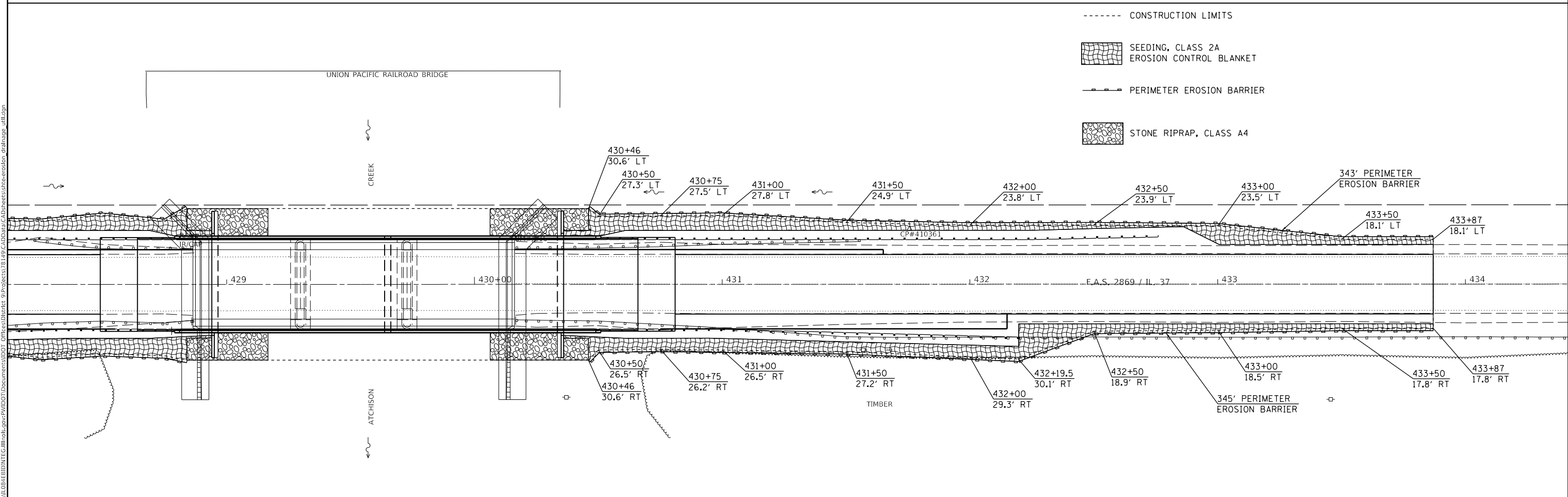
**STAGE 3 PLAN VIEW
IL 37**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	24
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				



- CONSTRUCTION LIMITS
- SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- STONE RIPRAP, CLASS A4



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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

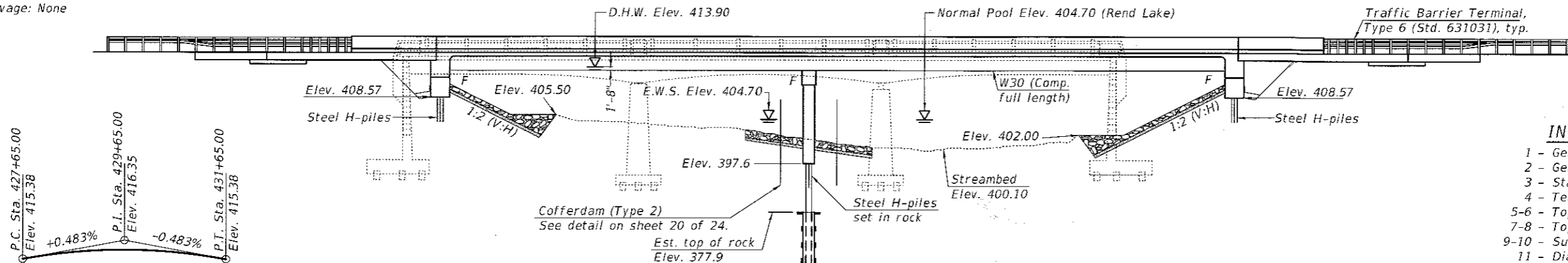
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SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	25
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

BENCHMARK: BM#J216 - NGS disk on SE wingwall 19' Lt., Sta. 430+16, Elev. 415.33.

EXISTING STRUCTURE: SN 041-0036 was originally built in 1921 as SBI Route 37 Section 2-B. In 1952 it was reconstructed at Sta. 429+51.30, by widening the existing substructure and placing a 3-span continuous RC T-beam superstructure on top. The Bridge length is 129'-10" from back to back abutments and width is 33'-8" out to out of deck. Structure to be removed and replaced using stage construction to maintain one lane of traffic at all times.

Salvage: None

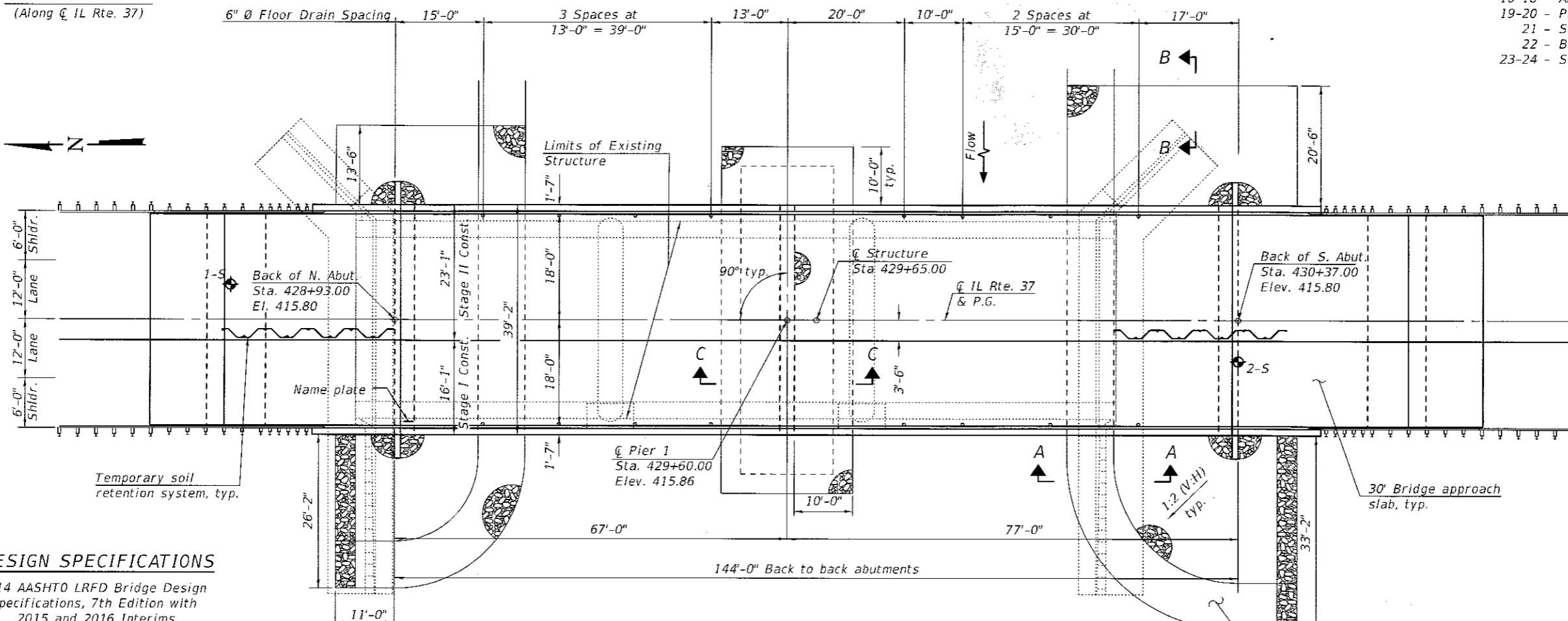


INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Concrete Barrier
- 5-6 - Top of Slab Elevations
- 7-8 - Top of Approach Slab Elevations
- 9-10 - Superstructure Details
- 11 - Diaphragm Details
- 12-13 - Bridge Approach Slab Details
- 14-15 - Structural Steel Details
- 16-18 - Abutment Details
- 19-20 - Pier Details
- 21 - Steel H-Pile Details
- 22 - Bar Splicer Assembly Details
- 23-24 - Soil Boring Logs

ELEVATION

PROFILE GRADE
(Along \bar{C} IL Rte. 37)



PLAN

DESIGN SPECIFICATIONS

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

DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f'_c = 4,000$ psi (Concrete Superstructure)
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 50,000$ psi (M270 Grade 50)



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. (SD1) = 0.308 g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.726 g
 Soil Site Class = D

GENERAL PLAN AND ELEVATION

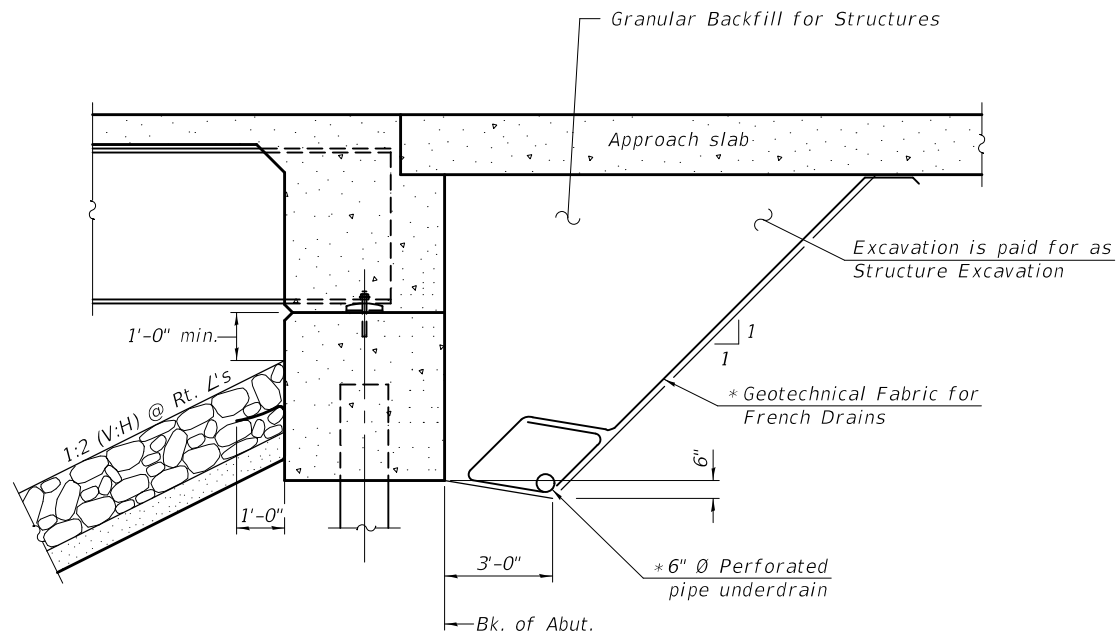
IL ROUTE 37
OVER ATCHISON CREEK
F.A.S. ROUTE 2826 - SECTION 2B-2
JEFFERSON COUNTY
STATION 429+65.00
STRUCTURE NO. 041-0110

MODEL: 0410110-78149-001
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DESIGNED - <i>Jonas R. Smith</i>	EXAMINED - <i>David Carl Pluzey</i>	DATE - 2-13-2018
CHECKED - <i>Michael B. Mossman</i>	PASSED - <i>David Carl Pluzey</i>	REVISED -
DRAWN - <i>Michael B. Mossman</i>	ENGINEER OF BRIDGE DESIGN	REVISED -
CHECKED - <i>JRB JMO</i>	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE. 2826	SECTION 2B-2	COUNTY JEFFERSON	TOTAL SHEETS 59	SHEET NO. 26
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				



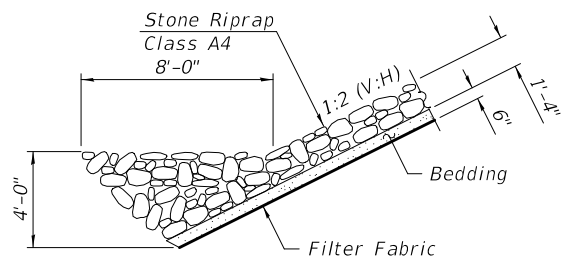
SECTION THRU INTEGRAL ABUTMENT

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

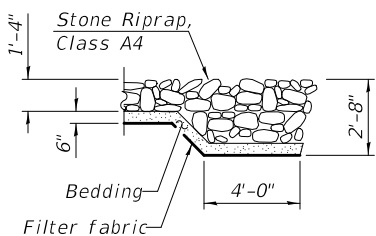
Note:

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 601101).

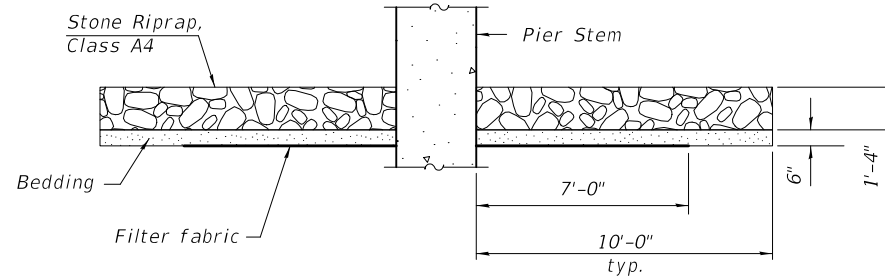
Granular backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.



SECTION A-A



SECTION B-B



SECTION C-C

STATION 429+65.00
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.S. RTE. 2826 - SEC. 2B-2
 LOADING HL-93
 STRUCTURE NO. 041-0110

NAME PLATE
 See Std. 515001

WATERWAY INFORMATION

Drainage Area = 22.27 Sq. Mi. Low Grade Elev. 414.80 @ Sta. 436+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	10	3350	1030	1080	412.0	0.25	0.23	412.25	412.23	
Design	50	5320	1050	1110	413.9	0.63	0.56	414.53	414.46	
Base	100	6190	1050	1110	414.6	0.54	0.52	415.14	415.12	

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	North Abut.	Pier 1	South Abut.	Item 113	
Q100	408.6	388.6	408.6		5
Q200	408.6	388.6	408.6		
Design	408.6	388.6	408.6		
Check	408.6	388.6	408.6		

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 1/8 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
 Calculated weight of Structural Steel = 152,900 Lbs. (M270 Grade 50)
 Calculated weight of Structural Steel = 9,780 Lbs. (M270 Grade 36)
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 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 Blue, Munsell No. 10B 3/6.
 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 parapets is not allowed.
 The back face of the abutments and wingwalls shall be coated with coal tar pitch emulsion as per Article 1061.02 of the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		793	793
Filter Fabric	Sq. Yd.		793	793
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		192	192
Cofferdam Excavation	Cu. Yd.		24	24
Cofferdam (Type 2) (Location-1)	Each		1	1
Floor Drains	Each	16		16
Concrete Structures	Cu. Yd.		109.5	109.5
Concrete Superstructure	Cu. Yd.	205.0		205.0
Bridge Deck Grooving	Sq. Yd.	766		766
Protective Coat	Sq. Yd.	960		960
Concrete Superstructure (Approach Slab)	Cu. Yd.	107.3		107.3
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,003		3,003
Reinforcement Bars, Epoxy Coated	Pound	88,930	11,100	100,030
Bar Splicers	Each	629	137	766
Furnishing Steel Piles HP 14x117	Foot		910	910
Driving Piles	Foot		504	504
Test Pile Steel HP 14x117	Foot		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		42	42
Temporary Soil Retention System	Sq. Ft.		365	365
Pipe Underdrains for Structures 6"	Foot		142	142
Granular Backfill for Structures	Cu. Yd.		135	135
Setting Piles in Rock	Each		7	7

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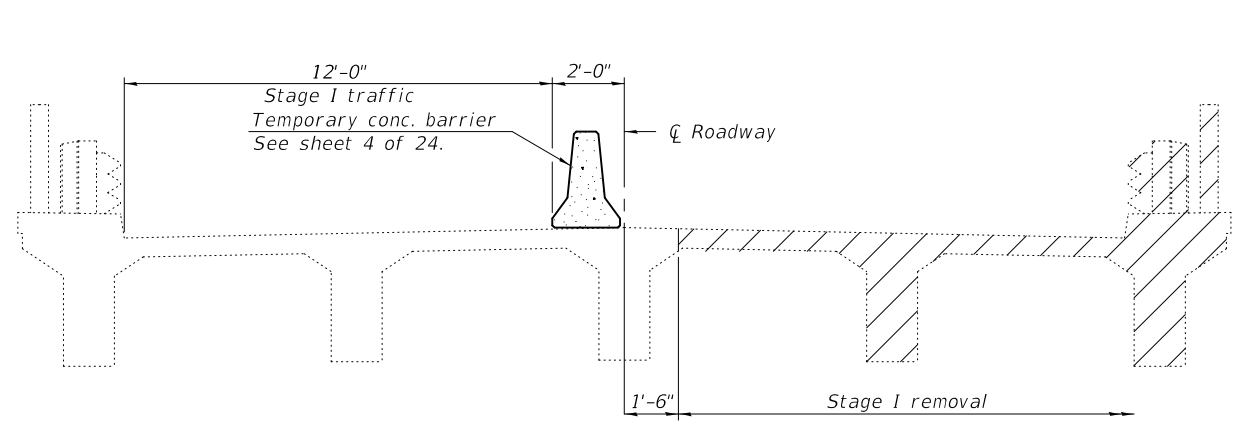
DESIGNED - JERRY BISHOFF	EXAMINED	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED	
DRAWN - MICHAEL B. MOSSMAN		
CHECKED - J.M.B. / J.M.O.		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

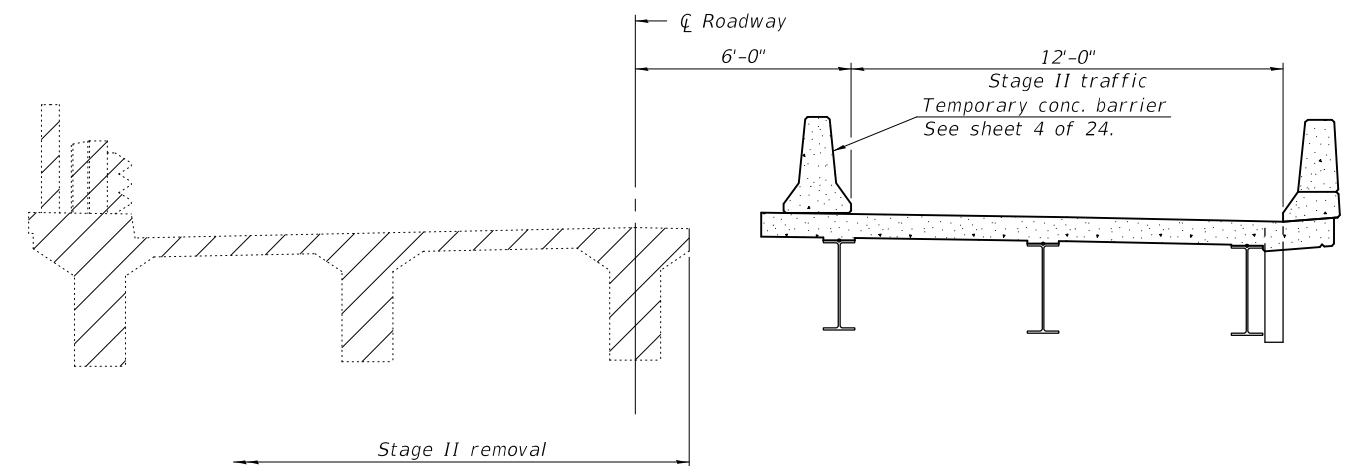
**GENERAL DATA
 STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	27
CONTRACT NO. 78149				
ILLINOIS		FED. AID PROJECT		

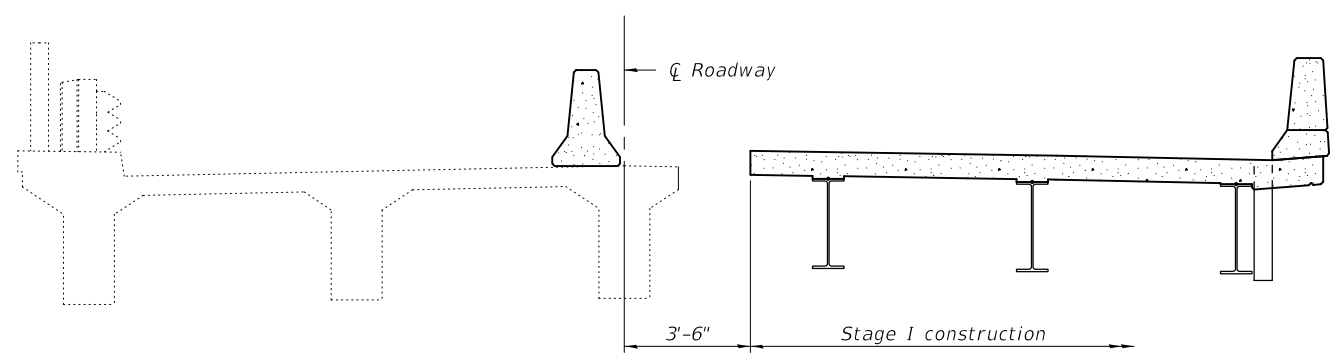
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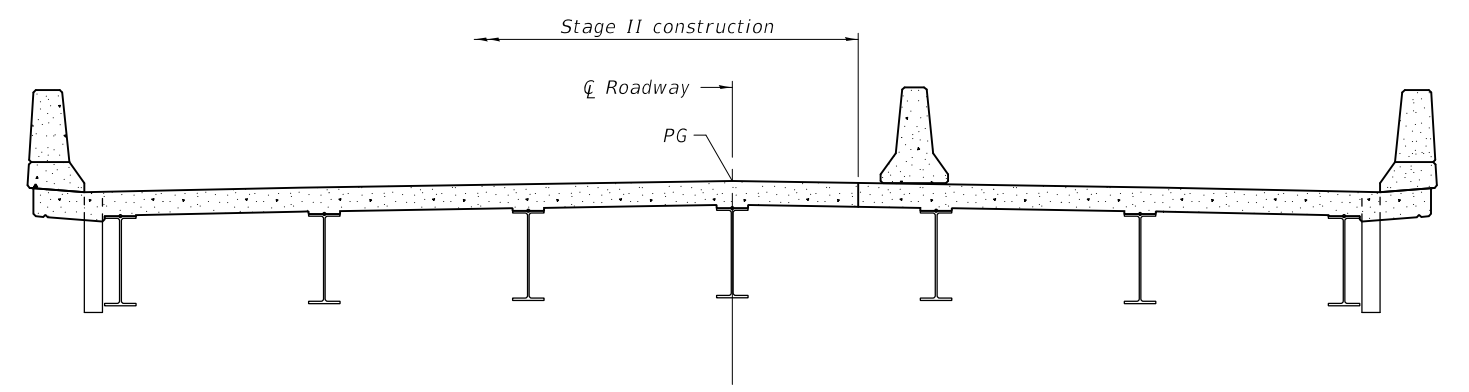
STAGE I REMOVAL



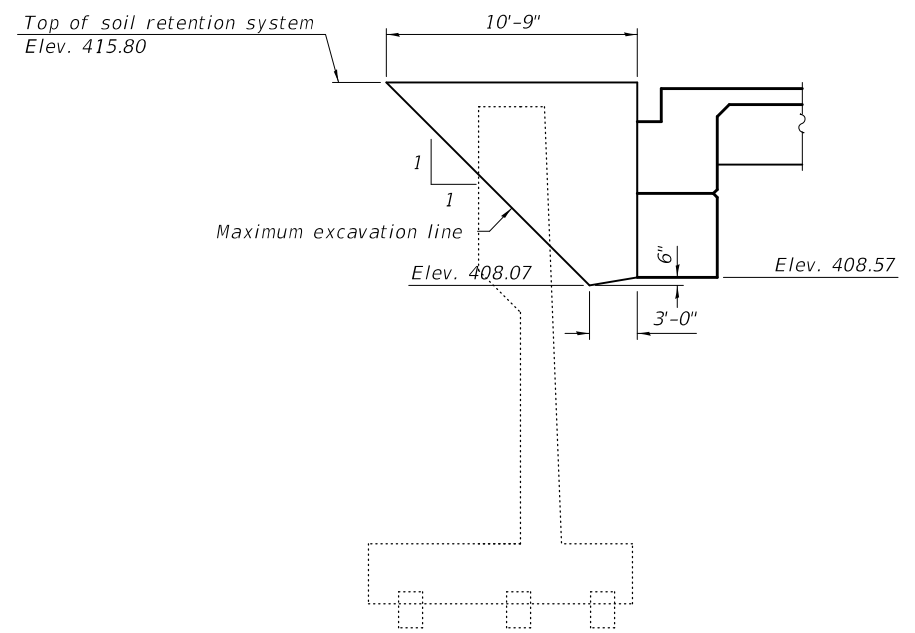
STAGE II REMOVAL



STAGE I CONSTRUCTION

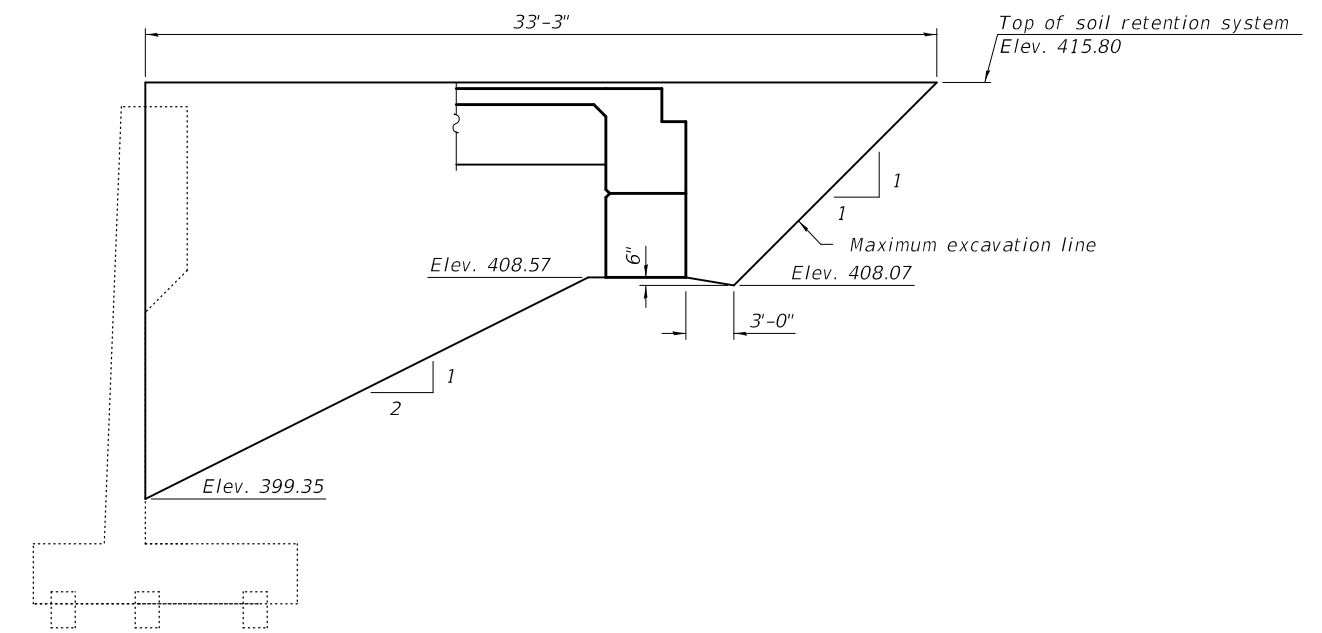


STAGE II CONSTRUCTION



NORTH ABUTMENT
 TEMPORARY SOIL RETENTION SYSTEM

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



SOUTH ABUTMENT
 TEMPORARY SOIL RETENTION SYSTEM

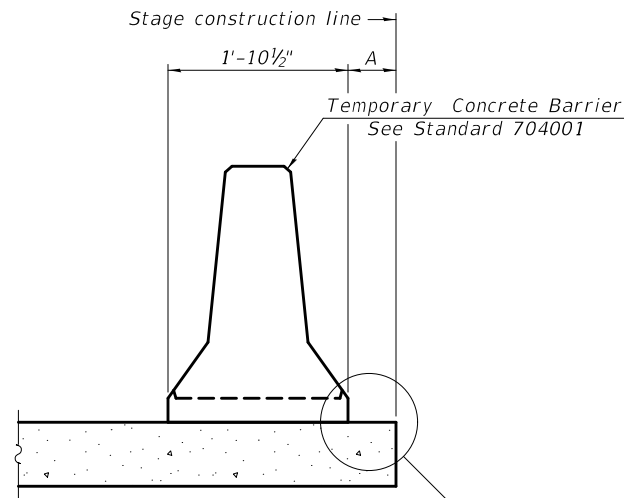
DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Kasper</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - J.M.B. / J.M.O.		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 041 - 0110

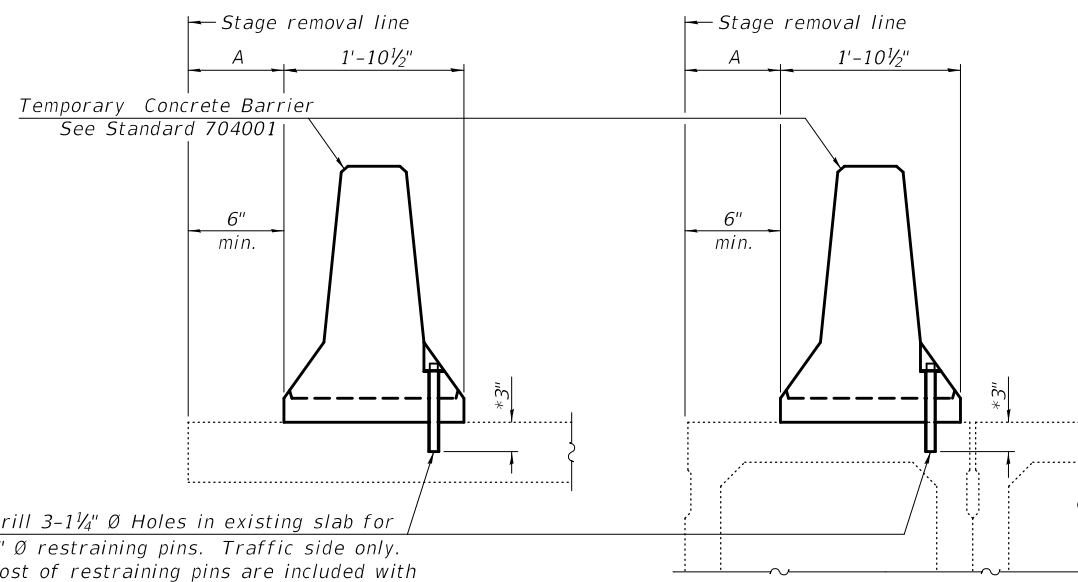
SHEET 3 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	28
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM

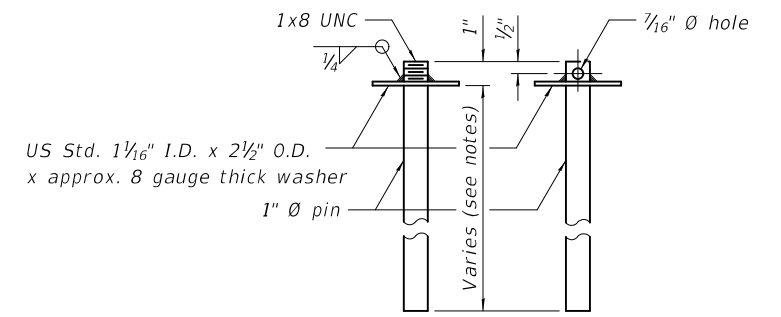


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

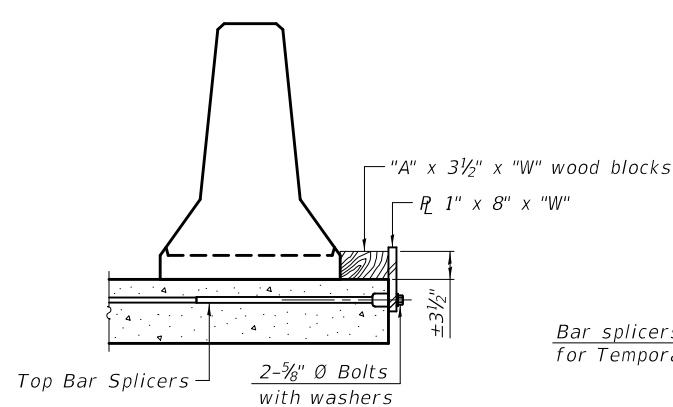
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

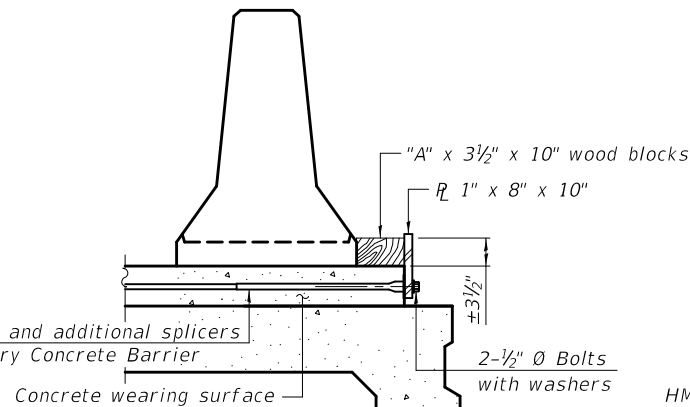


RESTRAINING PIN

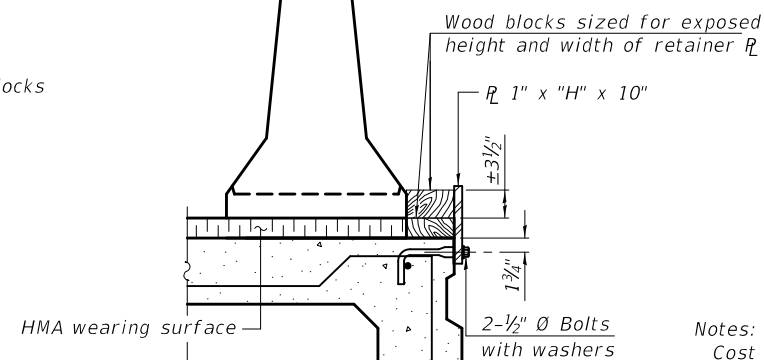
SECTIONS THRU SLAB OR DECK BEAM



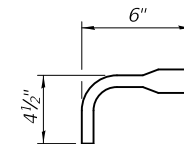
DETAIL I



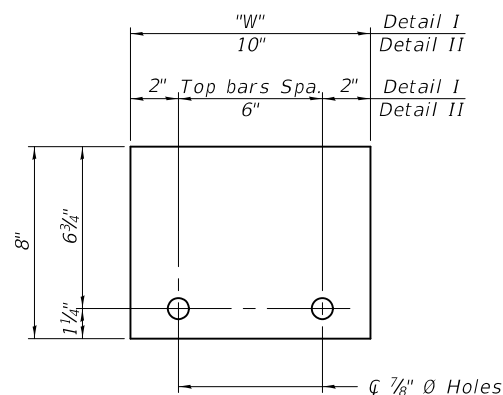
DETAIL II



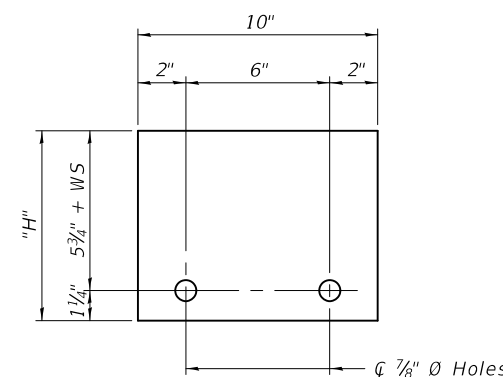
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" 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 center 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.

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R-27 8-11-2017

DESIGNED - JERRY BISHOFF	EXAMINED
CHECKED - JOSHUA M. ODORIZZI	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.M.B. / J.M.O.	

DATE - FEBRUARY 13, 2018
 ENGINEER OF BRIDGES AND STRUCTURES

REVISER	REVISION

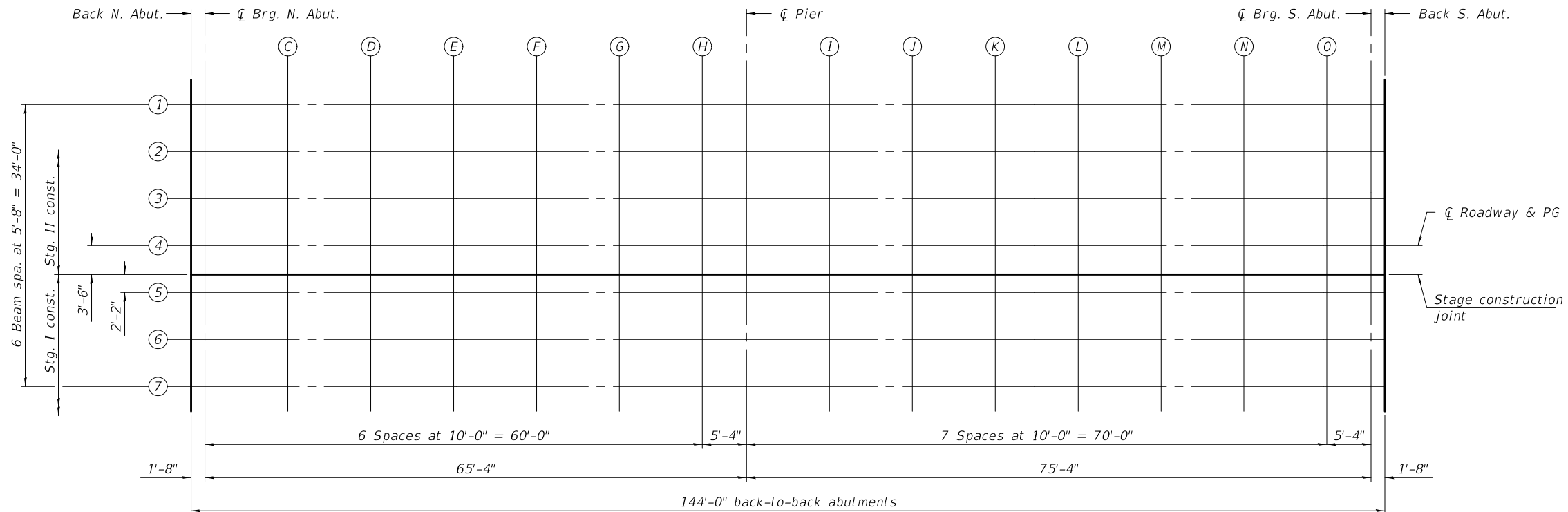
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 041 - 0110

SHEET 4 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	29
CONTRACT NO. 78149				

ILLINOIS FED. AID PROJECT



PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	-17.00	415.52	415.52
Q Brg. N. Abut.	428+94.67	-17.00	415.52	415.52
C	429+04.67	-17.00	415.54	415.56
D	429+14.67	-17.00	415.55	415.59
E	429+24.67	-17.00	415.56	415.60
F	429+34.67	-17.00	415.57	415.60
G	429+44.67	-17.00	415.58	415.59
H	429+54.67	-17.00	415.58	415.58
Q Brg. Pier 1	429+60.00	-17.00	415.58	415.58
I	429+70.00	-17.00	415.58	415.60
J	429+80.00	-17.00	415.58	415.64
K	429+90.00	-17.00	415.58	415.66
L	430+00.00	-17.00	415.57	415.66
M	430+10.00	-17.00	415.56	415.65
N	430+20.00	-17.00	415.55	415.61
O	430+30.00	-17.00	415.53	415.56
Q Brg. S. Abut.	430+35.33	-17.00	415.52	415.52
Back S. Abut.	430+37.00	-17.00	415.52	415.52

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	-11.33	415.63	415.63
Q Brg. N. Abut.	428+94.67	-11.33	415.63	415.63
C	429+04.67	-11.33	415.65	415.67
D	429+14.67	-11.33	415.66	415.70
E	429+24.67	-11.33	415.67	415.71
F	429+34.67	-11.33	415.68	415.71
G	429+44.67	-11.33	415.69	415.70
H	429+54.67	-11.33	415.69	415.69
Q Brg. Pier 1	429+60.00	-11.33	415.69	415.69
I	429+70.00	-11.33	415.69	415.71
J	429+80.00	-11.33	415.69	415.75
K	429+90.00	-11.33	415.69	415.77
L	430+00.00	-11.33	415.68	415.77
M	430+10.00	-11.33	415.67	415.76
N	430+20.00	-11.33	415.66	415.72
O	430+30.00	-11.33	415.64	415.67
Q Brg. S. Abut.	430+35.33	-11.33	415.63	415.63
Back S. Abut.	430+37.00	-11.33	415.63	415.63

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	-5.67	415.72	415.72
Q Brg. N. Abut.	428+94.67	-5.67	415.72	415.72
C	429+04.67	-5.67	415.73	415.76
D	429+14.67	-5.67	415.75	415.78
E	429+24.67	-5.67	415.76	415.79
F	429+34.67	-5.67	415.77	415.79
G	429+44.67	-5.67	415.77	415.78
H	429+54.67	-5.67	415.78	415.78
Q Brg. Pier 1	429+60.00	-5.67	415.78	415.78
I	429+70.00	-5.67	415.78	415.80
J	429+80.00	-5.67	415.78	415.83
K	429+90.00	-5.67	415.77	415.85
L	430+00.00	-5.67	415.76	415.86
M	430+10.00	-5.67	415.75	415.85
N	430+20.00	-5.67	415.74	415.81
O	430+30.00	-5.67	415.73	415.75
Q Brg. S. Abut.	430+35.33	-5.67	415.72	415.72
Back S. Abut.	430+37.00	-5.67	415.72	415.72

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DESIGNED - JERRY BISHOFF
 CHECKED - JOSHUA M. ODORIZZI
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.B. / J.M.O.

EXAMINED
 PASSED
Joanne F. Joffe
 ENGINEER OF BRIDGE DESIGN
Carl Kasper
 ENGINEER OF BRIDGES AND STRUCTURES

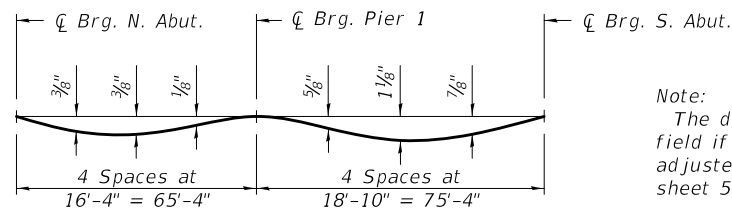
DATE - FEBRUARY 13, 2018
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 041 - 0110

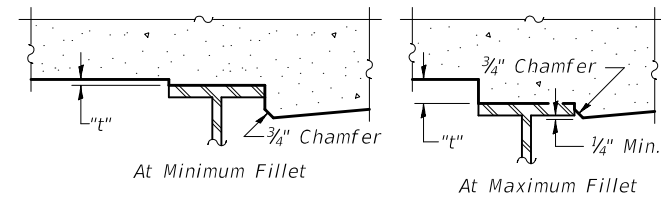
SHEET 5 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	30
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				



Note:
The deflections shown at left 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 5 of 24.

DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet 5 of 24. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 5 of 24, minus slab thickness, equals the fillet heights "t" above top flange of beams.

BEAM 4, C ROADWAY, & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	0.00	415.80	415.80
C Brg. N. Abut.	428+94.67	0.00	415.80	415.80
C	429+04.67	0.00	415.82	415.84
D	429+14.67	0.00	415.83	415.87
E	429+24.67	0.00	415.84	415.88
F	429+34.67	0.00	415.85	415.88
G	429+44.67	0.00	415.86	415.87
H	429+54.67	0.00	415.86	415.86
C Brg. Pier 1	429+60.00	0.00	415.86	415.86
I	429+70.00	0.00	415.86	415.88
J	429+80.00	0.00	415.86	415.92
K	429+90.00	0.00	415.86	415.94
L	430+00.00	0.00	415.85	415.94
M	430+10.00	0.00	415.84	415.93
N	430+20.00	0.00	415.83	415.89
O	430+30.00	0.00	415.81	415.84
C Brg. S. Abut.	430+35.33	0.00	415.80	415.80
Back S. Abut.	430+37.00	0.00	415.80	415.80

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	3.50	415.75	415.75
C Brg. N. Abut.	428+94.67	3.50	415.75	415.75
C	429+04.67	3.50	415.77	415.79
D	429+14.67	3.50	415.78	415.81
E	429+24.67	3.50	415.79	415.83
F	429+34.67	3.50	415.80	415.82
G	429+44.67	3.50	415.81	415.81
H	429+54.67	3.50	415.81	415.81
C Brg. Pier 1	429+60.00	3.50	415.81	415.81
I	429+70.00	3.50	415.81	415.83
J	429+80.00	3.50	415.81	415.86
K	429+90.00	3.50	415.80	415.89
L	430+00.00	3.50	415.80	415.89
M	430+10.00	3.50	415.79	415.88
N	430+20.00	3.50	415.77	415.84
O	430+30.00	3.50	415.76	415.78
C Brg. S. Abut.	430+35.33	3.50	415.75	415.75
Back S. Abut.	430+37.00	3.50	415.75	415.75

FILLET HEIGHTS

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	5.67	415.72	415.72
C Brg. N. Abut.	428+94.67	5.67	415.72	415.72
C	429+04.67	5.67	415.73	415.76
D	429+14.67	5.67	415.75	415.78
E	429+24.67	5.67	415.76	415.79
F	429+34.67	5.67	415.77	415.79
G	429+44.67	5.67	415.77	415.78
H	429+54.67	5.67	415.78	415.78
C Brg. Pier 1	429+60.00	5.67	415.78	415.78
I	429+70.00	5.67	415.78	415.80
J	429+80.00	5.67	415.78	415.83
K	429+90.00	5.67	415.77	415.85
L	430+00.00	5.67	415.76	415.86
M	430+10.00	5.67	415.75	415.85
N	430+20.00	5.67	415.74	415.81
O	430+30.00	5.67	415.73	415.75
C Brg. S. Abut.	430+35.33	5.67	415.72	415.72
Back S. Abut.	430+37.00	5.67	415.72	415.72

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	11.33	415.63	415.63
C Brg. N. Abut.	428+94.67	11.33	415.63	415.63
C	429+04.67	11.33	415.65	415.67
D	429+14.67	11.33	415.66	415.70
E	429+24.67	11.33	415.67	415.71
F	429+34.67	11.33	415.68	415.71
G	429+44.67	11.33	415.69	415.70
H	429+54.67	11.33	415.69	415.69
C Brg. Pier 1	429+60.00	11.33	415.69	415.69
I	429+70.00	11.33	415.69	415.71
J	429+80.00	11.33	415.69	415.75
K	429+90.00	11.33	415.69	415.77
L	430+00.00	11.33	415.68	415.77
M	430+10.00	11.33	415.67	415.76
N	430+20.00	11.33	415.66	415.72
O	430+30.00	11.33	415.64	415.67
C Brg. S. Abut.	430+35.33	11.33	415.63	415.63
Back S. Abut.	430+37.00	11.33	415.63	415.63

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back N. Abut.	428+93.00	17.00	415.52	415.52
C Brg. N. Abut.	428+94.67	17.00	415.52	415.52
C	429+04.67	17.00	415.54	415.56
D	429+14.67	17.00	415.55	415.59
E	429+24.67	17.00	415.56	415.60
F	429+34.67	17.00	415.57	415.60
G	429+44.67	17.00	415.58	415.59
H	429+54.67	17.00	415.58	415.58
C Brg. Pier 1	429+60.00	17.00	415.58	415.58
I	429+70.00	17.00	415.58	415.60
J	429+80.00	17.00	415.58	415.64
K	429+90.00	17.00	415.58	415.66
L	430+00.00	17.00	415.57	415.66
M	430+10.00	17.00	415.56	415.65
N	430+20.00	17.00	415.55	415.61
O	430+30.00	17.00	415.53	415.56
C Brg. S. Abut.	430+35.33	17.00	415.52	415.52
Back S. Abut.	430+37.00	17.00	415.52	415.52

MODEL: 0410110-78149-006
FILE NAME: p:\w\084EBID\INTEG\illinois.gov\p\WIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110-78149

DESIGNED - JERRY BISHOFF
CHECKED - JOSHUA M. ODORIZZI
DRAWN - MICHAEL B. MOSSMAN
CHECKED - J.M.B. / J.M.O.

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

DATE - FEBRUARY 13, 2018
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 041 - 0110

SHEET 6 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	31
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	-18.00	415.44
A	428+74.00	-18.00	415.46
B	428+84.00	-18.00	415.48
S. End of N. Appr. Slab	428+94.00	-18.00	415.50

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	-12.00	415.56
A	428+74.00	-12.00	415.58
B	428+84.00	-12.00	415.60
S. End of N. Appr. Slab	428+94.00	-12.00	415.62

☐ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	0.00	415.74
A	428+74.00	0.00	415.76
B	428+84.00	0.00	415.78
S. End of N. Appr. Slab	428+94.00	0.00	415.80

STAGE CONSTRUCTION JOINT

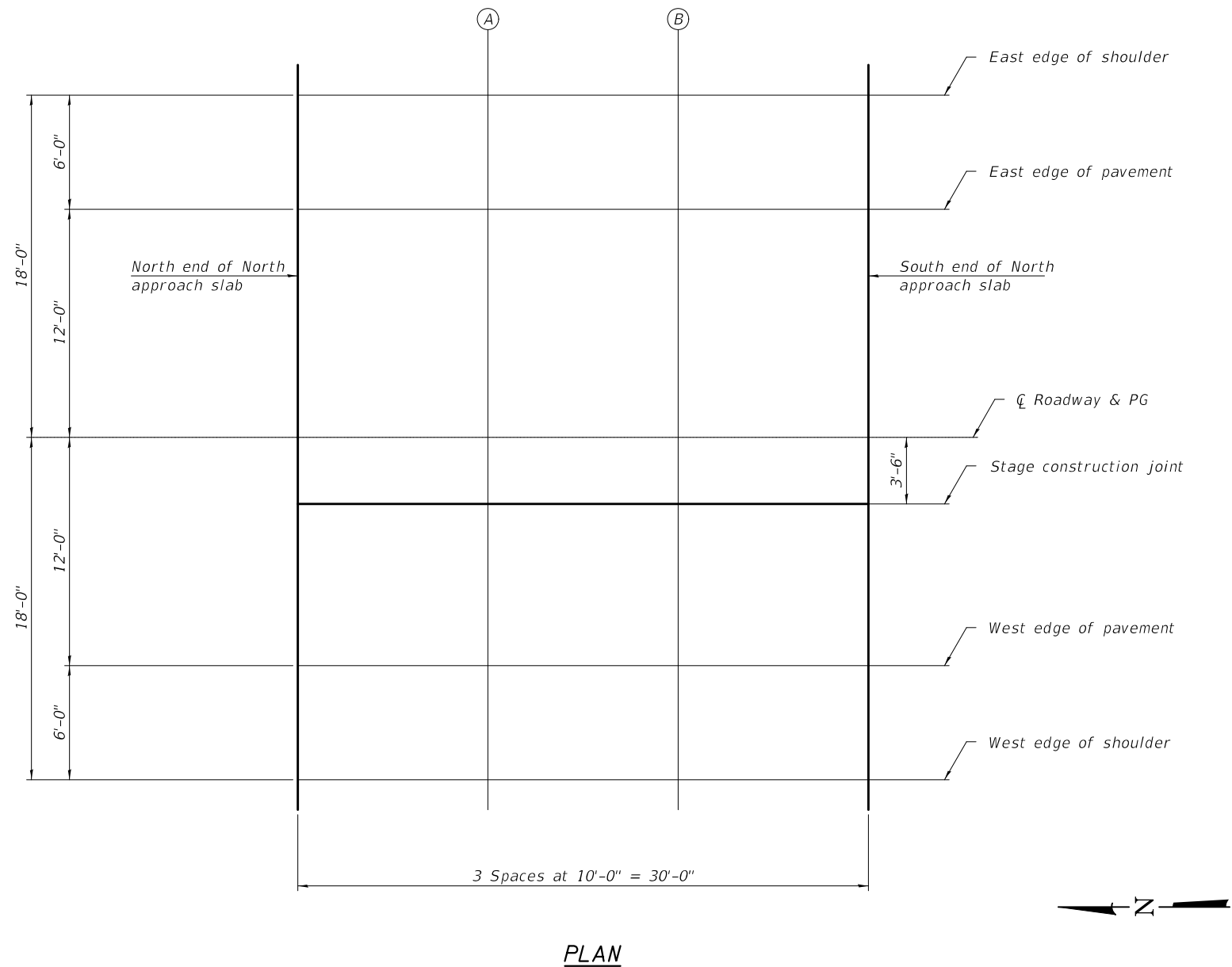
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	3.50	415.69
A	428+74.00	3.50	415.71
B	428+84.00	3.50	415.73
S. End of N. Appr. Slab	428+94.00	3.50	415.75

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	12.00	415.56
A	428+74.00	12.00	415.58
B	428+84.00	12.00	415.60
S. End of N. Appr. Slab	428+94.00	12.00	415.62

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	428+64.00	18.00	415.44
A	428+74.00	18.00	415.46
B	428+84.00	18.00	415.48
S. End of N. Appr. Slab	428+94.00	18.00	415.50



MODEL: 0410110-78149-007
FILE NAME: p:\w\0848\BID\INTEG\Illinois\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED -	JERRY BISHOFF
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DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

EXAMINED	<i>Jaime F. Joffe</i>	DATE -	FEBRUARY 13, 2018
PASSED	<i>Carl Kasper</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 041 - 0110**

SHEET 7 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	32
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	-18.00	415.50
P	430+46.00	-18.00	415.48
Q	430+56.00	-18.00	415.46
S. End of S. Appr. Slab	430+66.00	-18.00	415.44

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	-12.00	415.62
P	430+46.00	-12.00	415.60
Q	430+56.00	-12.00	415.58
S. End of S. Appr. Slab	430+66.00	-12.00	415.56

☐ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	0.00	415.80
P	430+46.00	0.00	415.78
Q	430+56.00	0.00	415.76
S. End of S. Appr. Slab	430+66.00	0.00	415.74

STAGE CONSTRUCTION JOINT

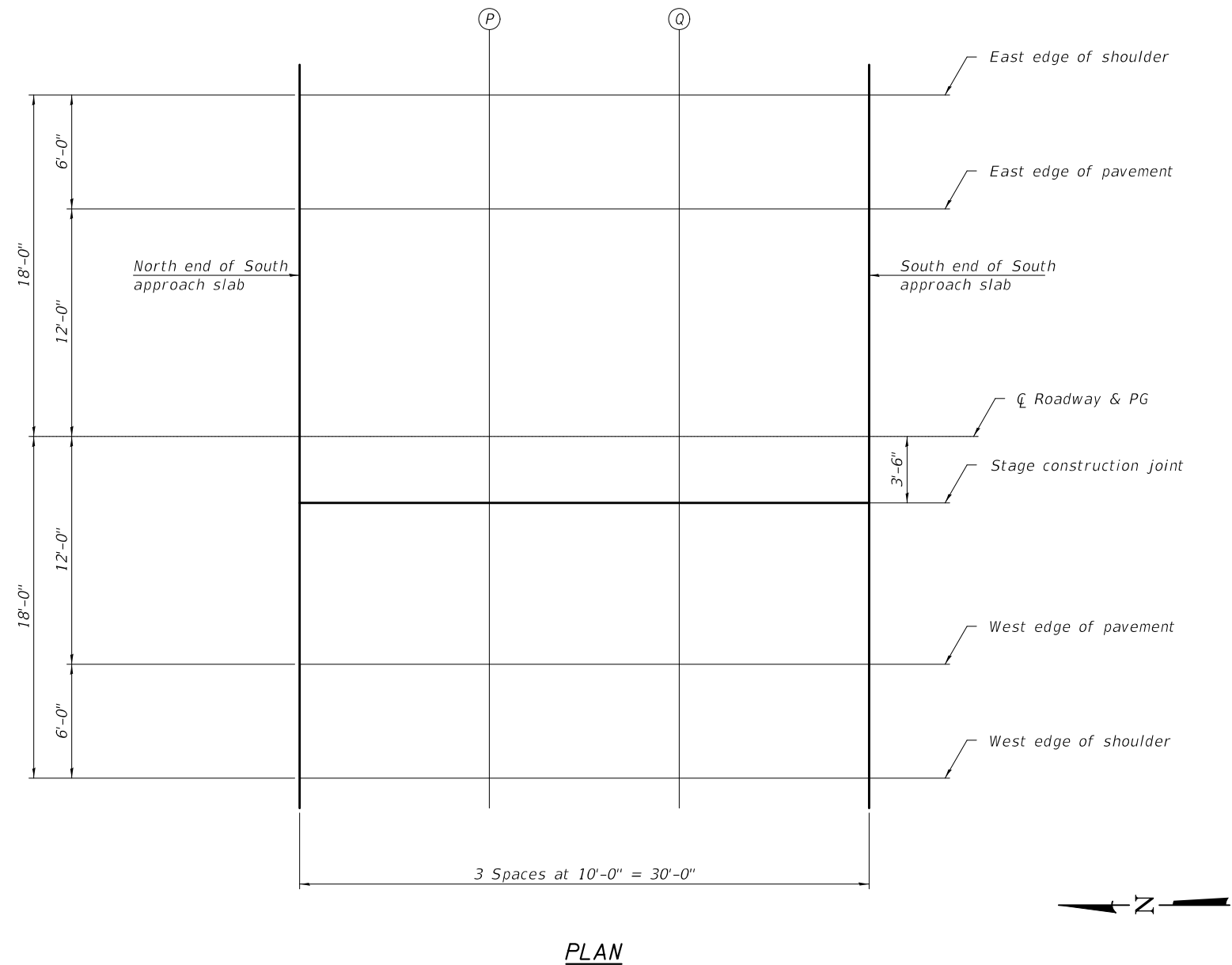
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	3.50	415.75
P	430+46.00	3.50	415.73
Q	460+56.00	3.50	415.71
S. End of S. Appr. Slab	460+66.00	3.50	415.69

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	12.00	415.62
P	430+46.00	12.00	415.60
Q	430+56.00	12.00	415.58
S. End of S. Appr. Slab	430+66.00	12.00	415.56

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	430+36.00	18.00	415.50
P	430+46.00	18.00	415.48
Q	430+56.00	18.00	415.46
S. End of S. Appr. Slab	430+66.00	18.00	415.44



MODEL: 0410110-78149-008
FILE NAME: p:\w\084EBID\INTEG\ilindocuments\DOT Offices\Bureau of Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED -	JERRY BISHOFF
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

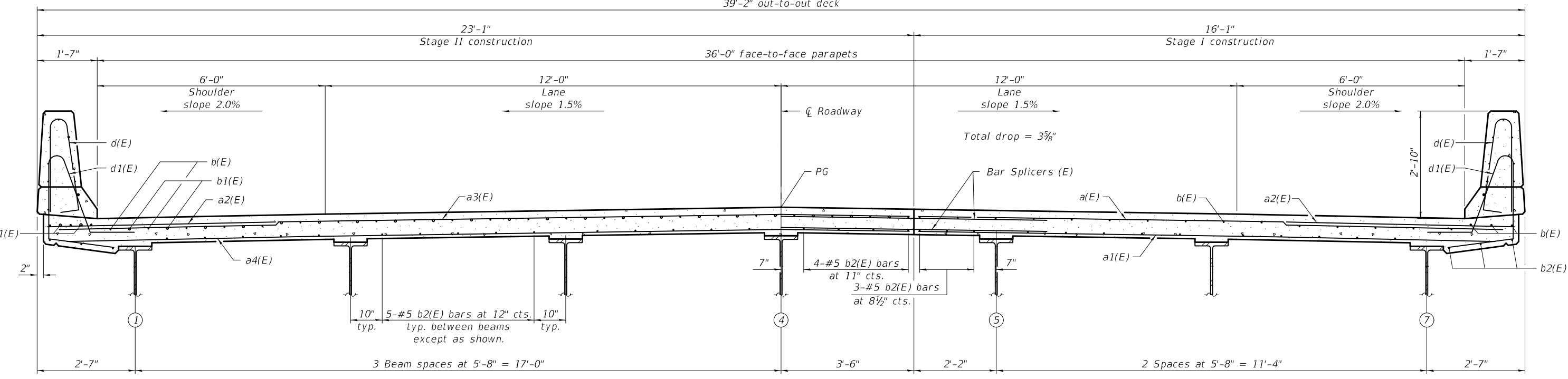
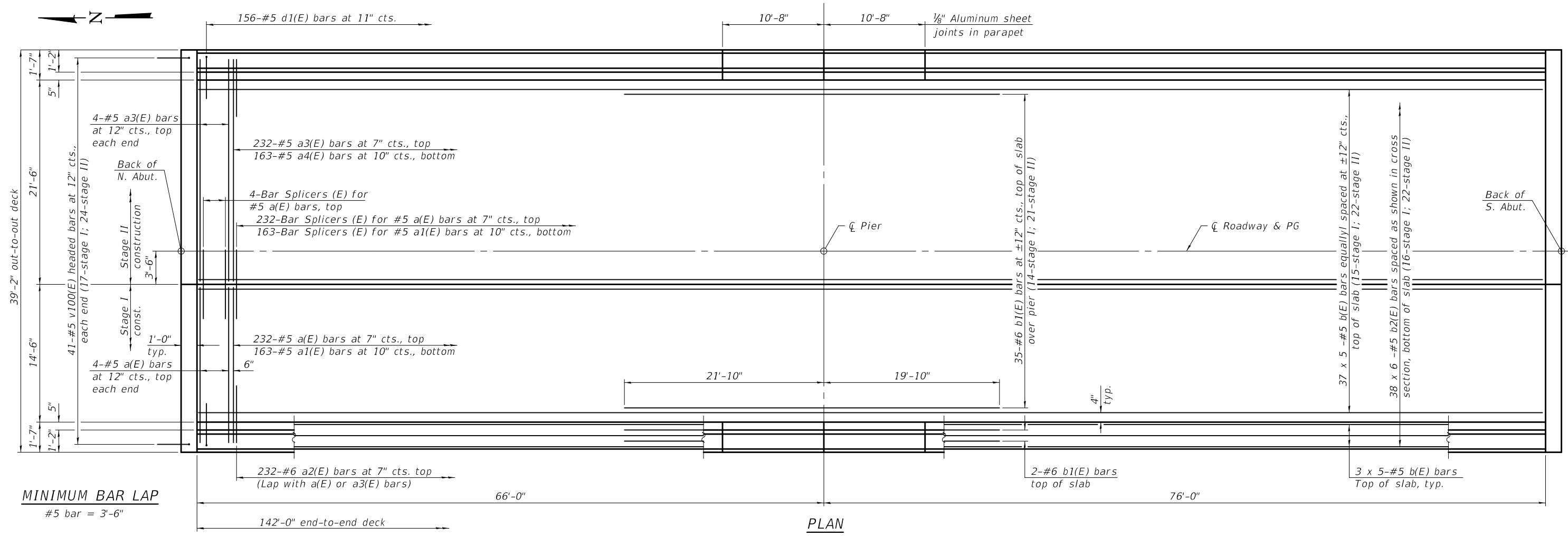
EXAMINED	<i>Jaime F. Joffe</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	FEBRUARY 13, 2018
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	33
CONTRACT NO. 78149				
ILLINOIS		FED. AID PROJECT		



Notes:
 See sheet 10 of 24 for superstructure details and Bill of Material.
 Bars indicated thus 37 x 5-#5 etc. indicates 37 lines of bars with 5 lengths per line.

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DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joyce F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Perry</i>	REVISER -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - J.M.B. / J.M.O.		

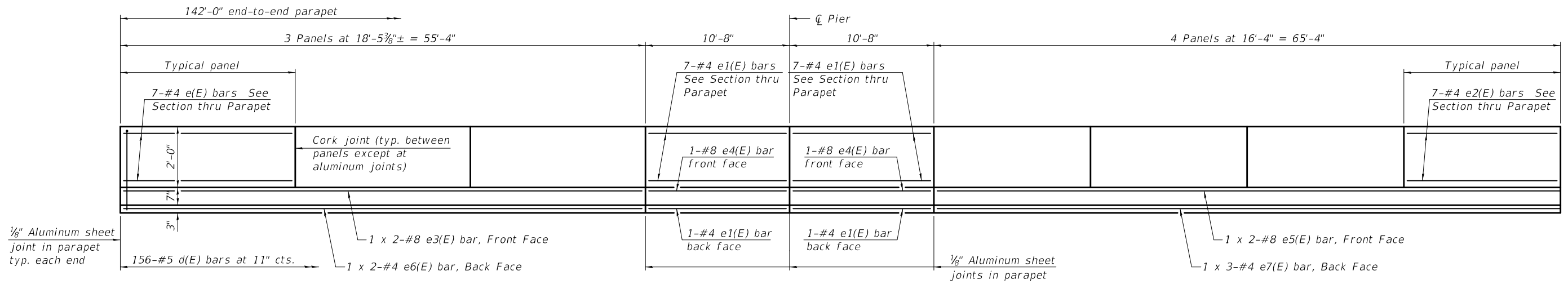
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE
STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	34
CONTRACT NO. 78149				

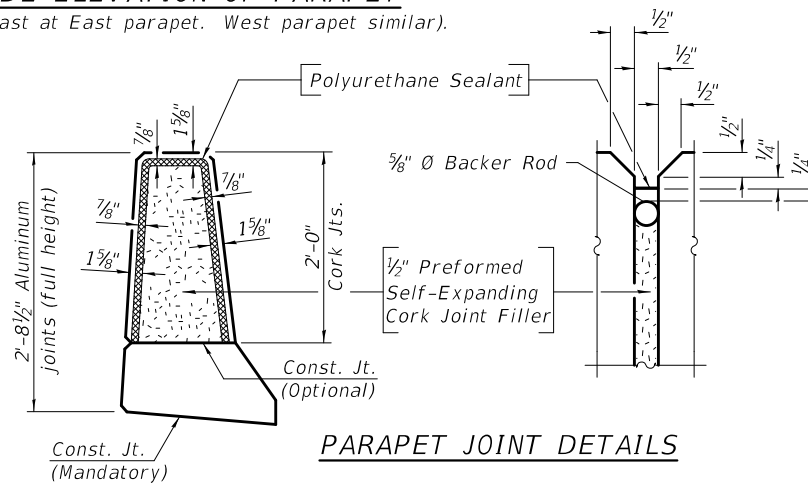
SHEET 9 OF 24 SHEETS

ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF PARAPET

(Looking East at East parapet. West parapet similar.)

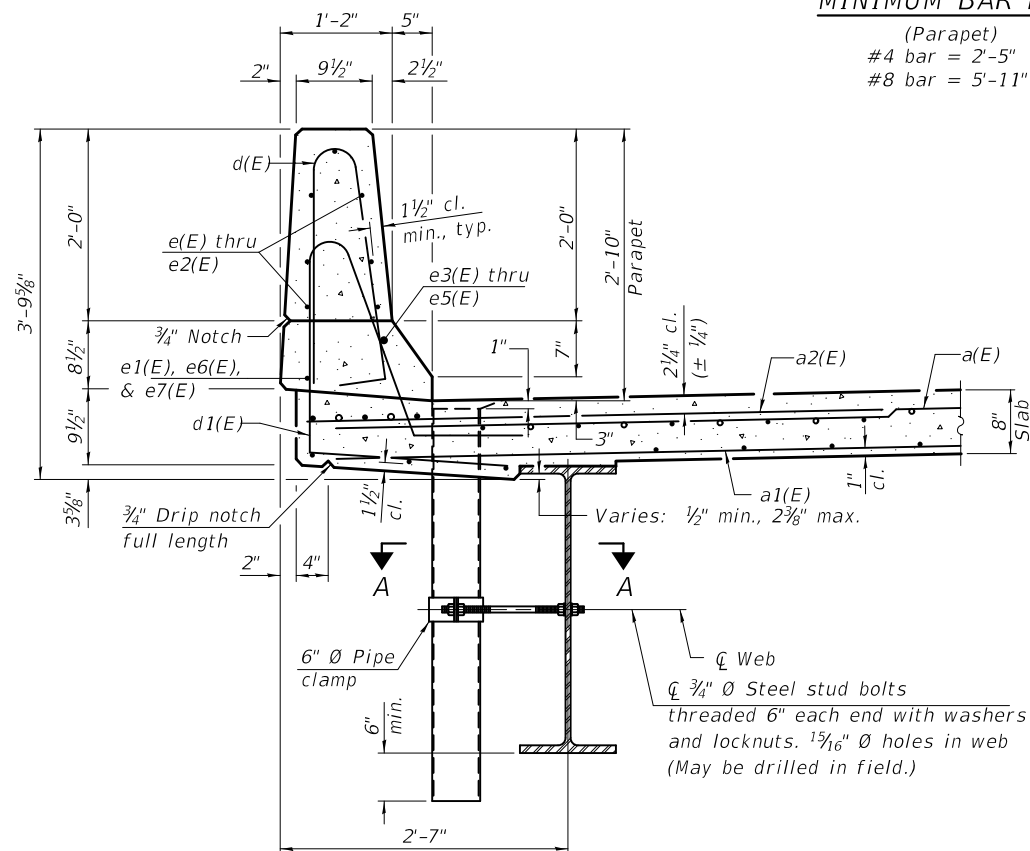


PARAPET JOINT DETAILS

Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 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 the Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.
 The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

MINIMUM BAR LAP

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

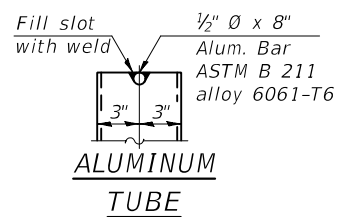


SECTION THRU PARAPET

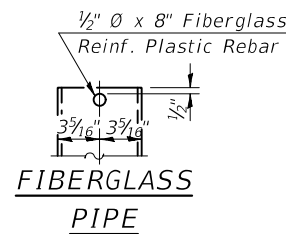
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	240	#5	15'-8"	—
a1(E)	163	#5	15'-4"	—
a2(E)	464	#6	6'-6"	—
a3(E)	240	#5	22'-8"	—
a4(E)	163	#5	22'-4"	—
b(E)	215	#5	31'-2"	—
b1(E)	39	#6	41'-8"	—
b2(E)	228	#5	26'-7"	—
d(E)	312	#5	5'-7"	┘
d1(E)	312	#5	7'-4"	┘
e(E)	42	#4	18'-2"	—
e1(E)	32	#4	10'-5"	—
e2(E)	56	#4	16'-1"	—
e3(E)	4	#8	30'-6"	—
e4(E)	4	#8	10'-5"	—
e5(E)	4	#8	35'-6"	—
e6(E)	4	#4	28'-9"	—
e7(E)	6	#4	23'-4"	—
m10(E)	8	#6	15'-9"	—
m11(E)	8	#6	22'-9"	—
m12(E)	30	#6	5'-4"	—
m13(E)	12	#6	2'-3"	—
m14(E)	42	#5	4'-0"	—
s10(E)	68	#5	6'-10"	┘
s11(E)	68	#5	9'-2"	┘
v100(E)	82	#5	3'-1"	┘
Reinforcement Bars, Epoxy Coated				Lbs. 45,120
Concrete Superstructure				Cu. Yds. 198.3

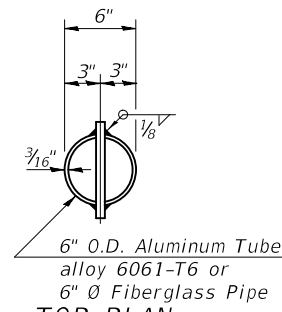
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



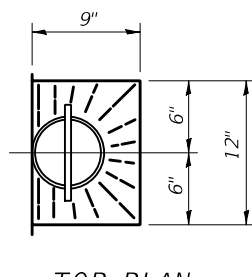
ALUMINUM TUBE



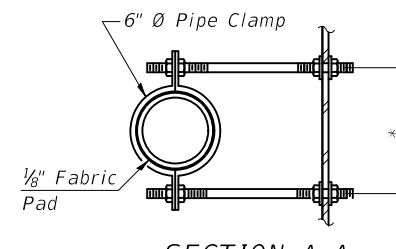
FIBERGLASS PIPE



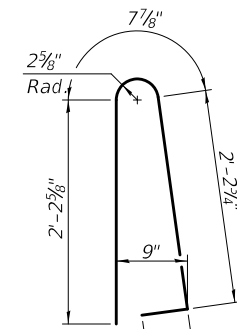
TOP PLAN
 (Showing Aluminum Tube)



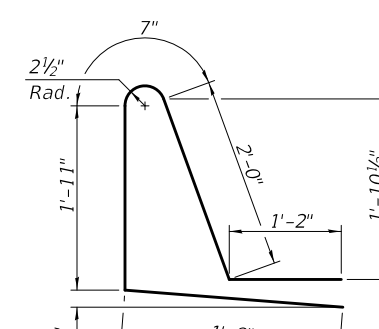
TOP PLAN



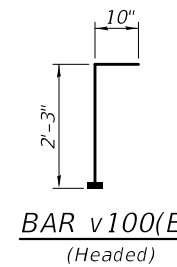
SECTION A-A
 * Dimension as required by Pipe Clamp



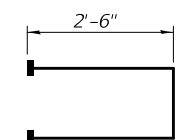
BAR d(E)



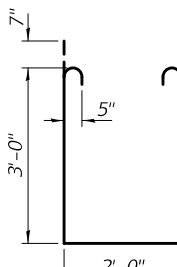
BAR d1(E)



BAR v100(E)
 (Headed)



BAR s10(E)
 (Headed)



BAR s11(E)

MODEL: 0410110-78149-010
 FILE NAME: p:\w\084EBID\INTEG\illmodsgov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

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 CHECKED - JOSHUA M. ODORIZZI
 DRAWN - MICHAEL B. MOSSMAN
 CHECKED - J.M.B. / J.M.O.

EXAMINED
 PASSED
Jaime F. J. [Signature]
 ENGINEER OF BRIDGE DESIGN

DATE - FEBRUARY 13, 2018
 REVISED -
 REVISED -

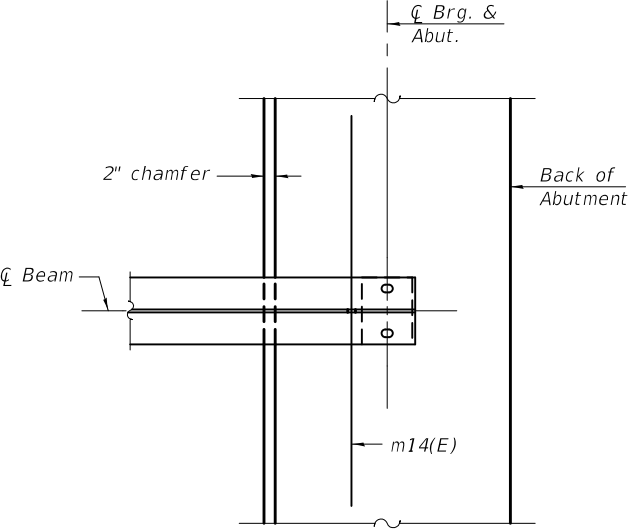
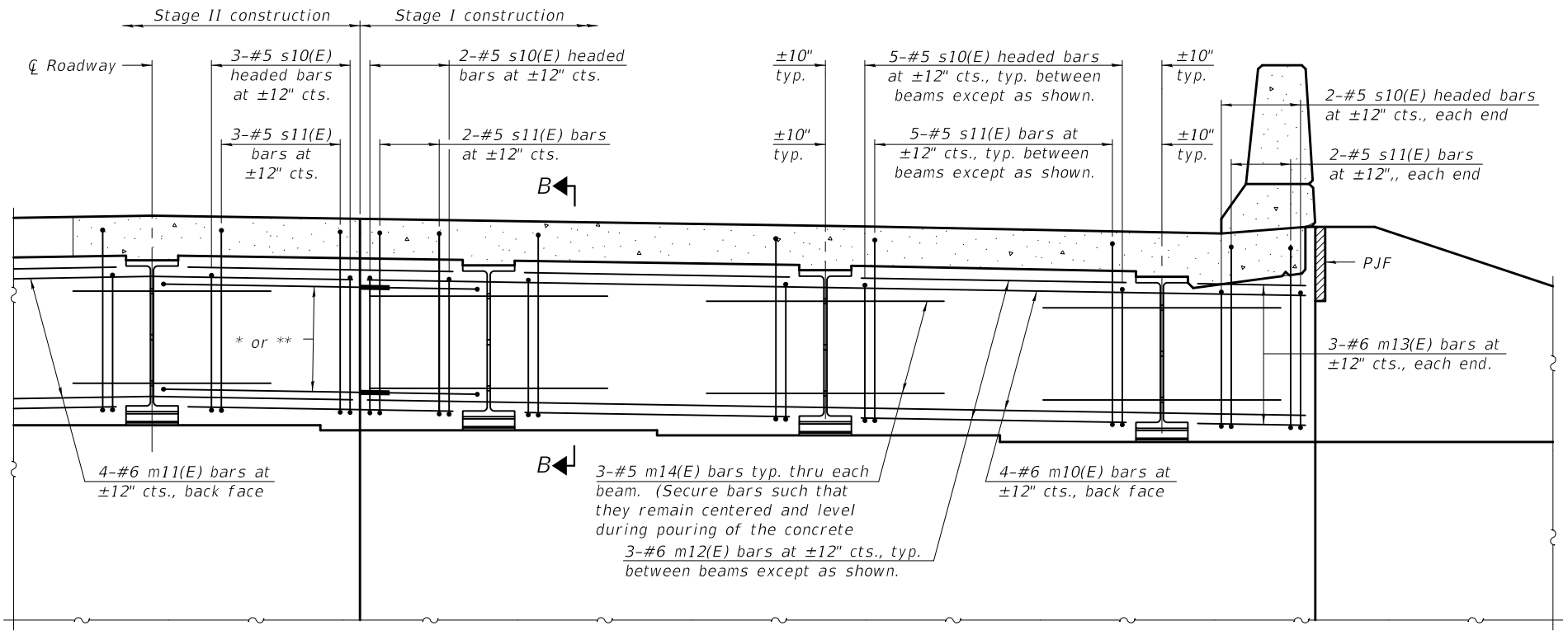
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 041 - 0110**

SHEET 10 OF 24 SHEETS

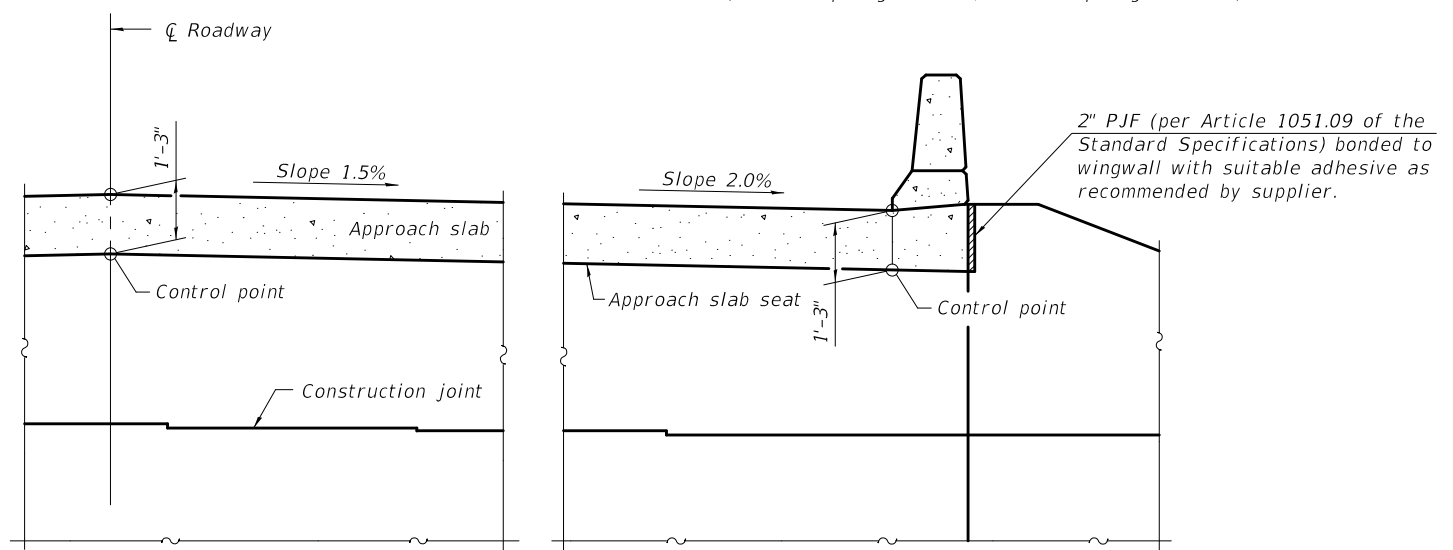
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	35
CONTRACT NO. 78149				

ILLINOIS FED. AID PROJECT

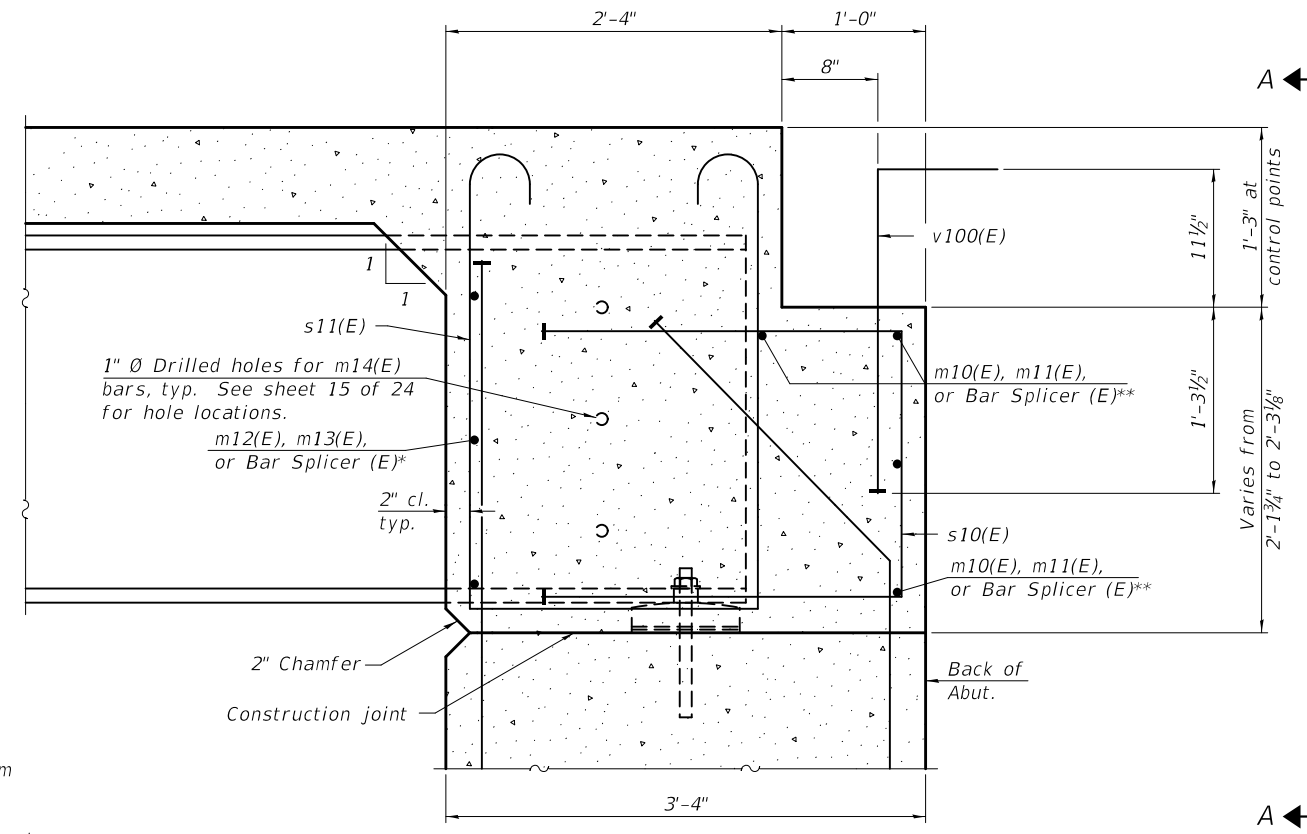


PLAN AT ABUTMENT
(Showing bottom flange of beam)

DIAPHRAGM AT ABUTMENT
(South diaphragm shown; North diaphragm similar)



VIEW A-A



SECTION B-B

- * 3-#6 Bar Splicers (E), front face. See sheet 22 of 24 for details. Rotate as required.
- ** 4-Bar Splicers (E) for #6 m10(E) bars, back face.

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 24.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 24.
 For details of bars s10(E), s11(E) and v100(E) see sheet 10 of 24.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 15 of 24.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

MODEL: 0410110-78149-011
 FILE NAME: p:\w\0848\BID\INTEG\illinois.gov\PW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED -	JERRY BISHOFF
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DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

EXAMINED		DATE -	FEBRUARY 13, 2018
PASSED	<i>Joanne F. Jaffe</i> ENGINEER OF BRIDGE DESIGN	REVISD -	
	<i>Carl Perry</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISD -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

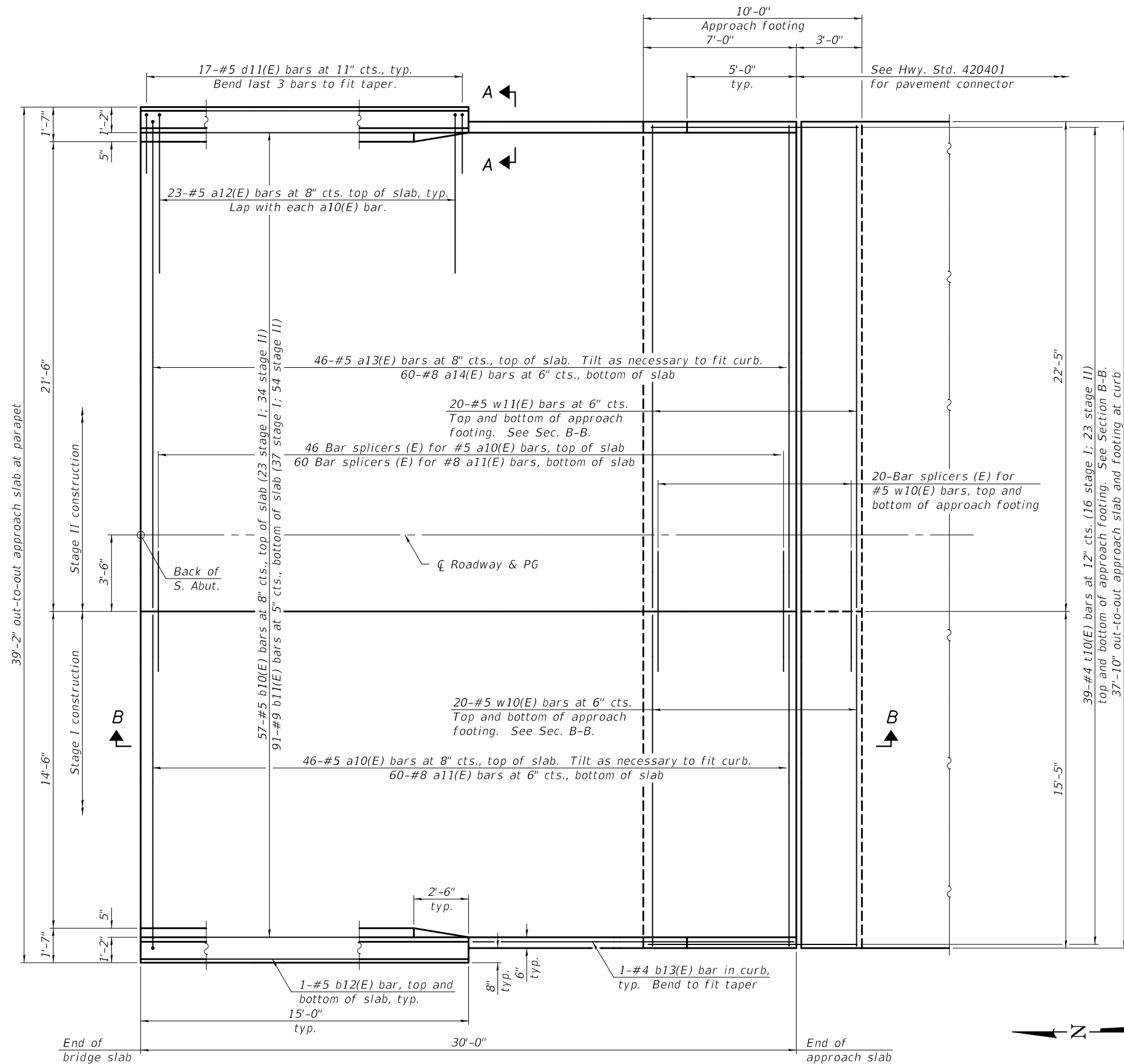
DIAPHRAGM DETAILS
STRUCTURE NO. 041 - 0110

SHEET 11 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	36
CONTRACT NO. 78149				

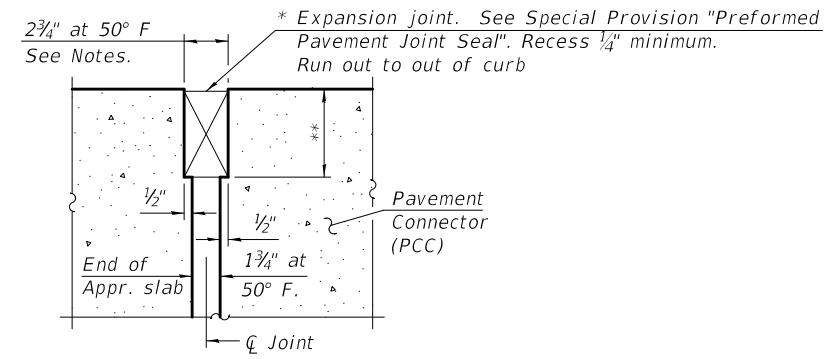
ILLINOIS FED. AID PROJECT

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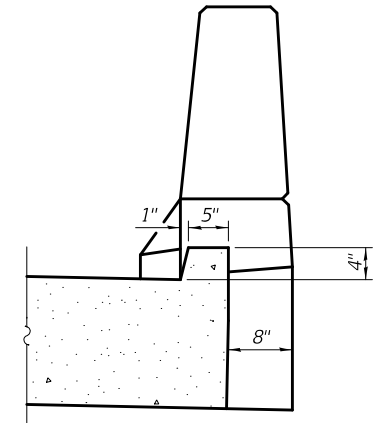
PLAN
 (South approach shown; North approach mirror image)

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24.



DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations



SECTION A-A

(Sheet 1 of 2)

DESIGNED -	JERRY BISHOFF
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

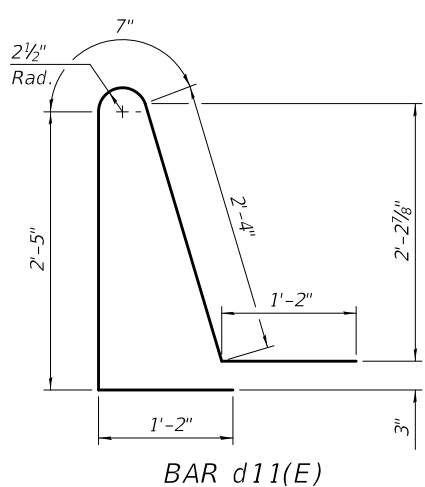
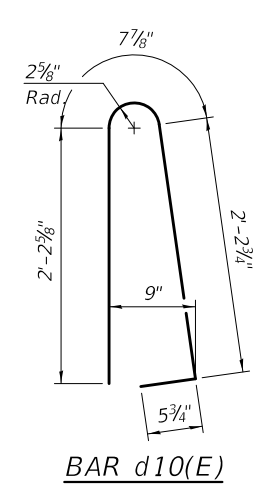
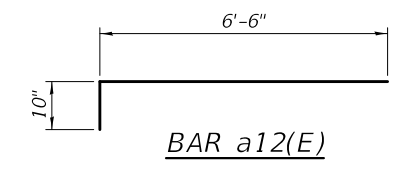
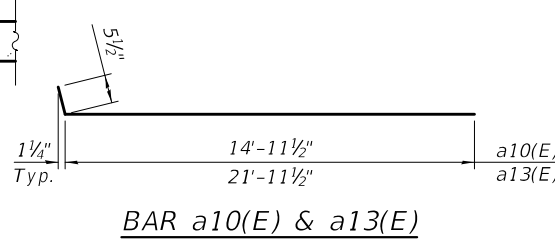
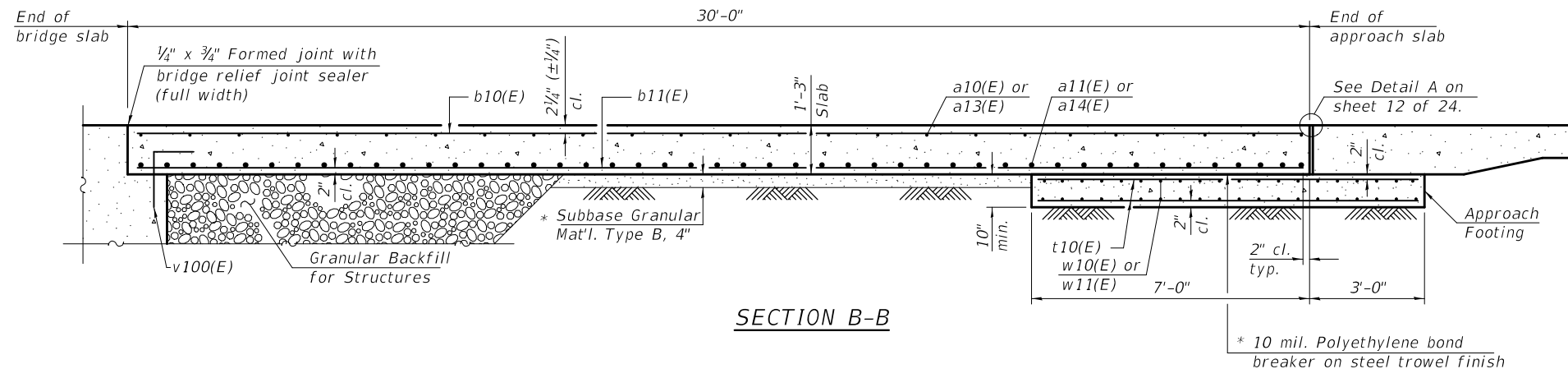
EXAMINED	<i>Joanne F. [Signature]</i>	DATE -	FEBRUARY 13, 2018
PASSED	<i>Carl [Signature]</i>	REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 041 - 0110

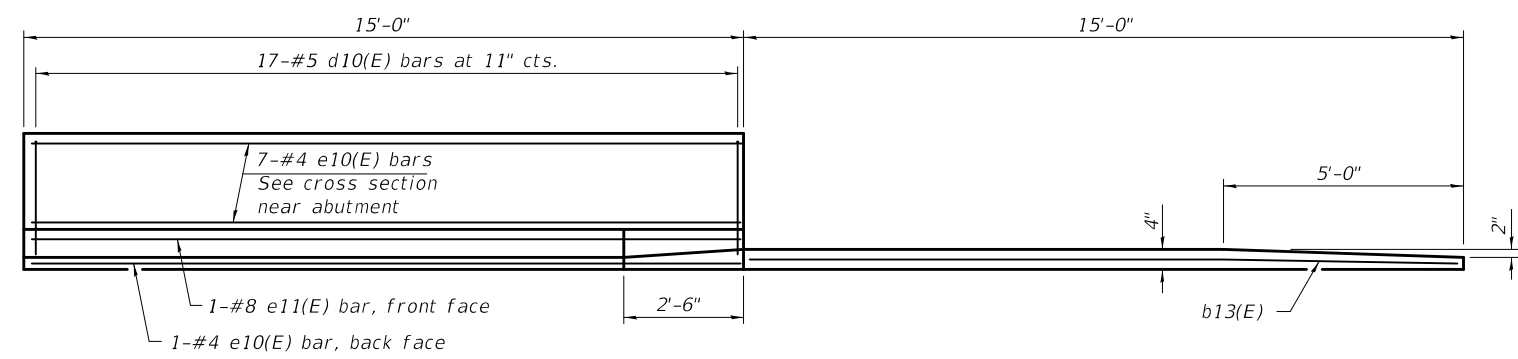
SHEET 12 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	37
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				



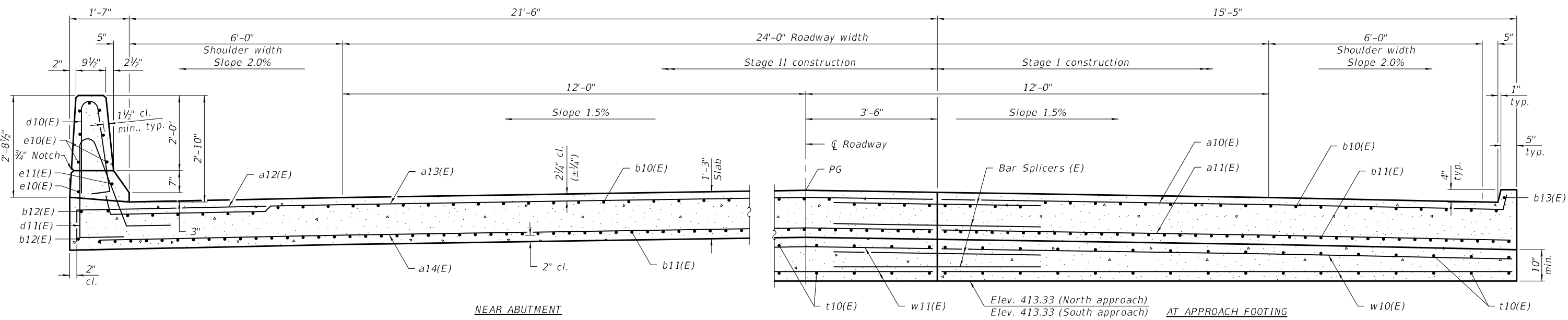
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	15'-5"	
a11(E)	120	#8	15'-1"	
a12(E)	92	#5	7'-4"	
a13(E)	92	#5	22'-5"	
a14(E)	120	#8	22'-1"	
b10(E)	114	#5	29'-8"	
b11(E)	182	#9	29'-8"	
b12(E)	8	#5	14'-8"	
b13(E)	4	#4	14'-8"	
d10(E)	68	#5	5'-7"	
d11(E)	68	#5	7'-8"	
e10(E)	32	#4	14'-8"	
e11(E)	4	#8	14'-8"	
t10(E)	156	#4	9'-8"	
w10(E)	80	#5	15'-1"	
w11(E)	80	#5	22'-1"	
Concrete Superstructure		Cu. Yd.	6.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	107.3	
Concrete Structures		Cu. Yd.	25.7	
Reinforcement Bars, Epoxy Coated		Pound	43,810	



INSIDE ELEVATION OF PARAPET AND CURB
(East parapet shown; West parapet similar by 180° rotation).

* Cost included with Concrete Superstructure (Approach Slab).



CROSS SECTION
(Looking South)

(Sheet 2 of 2)

MODEL: 0410110-78149-013
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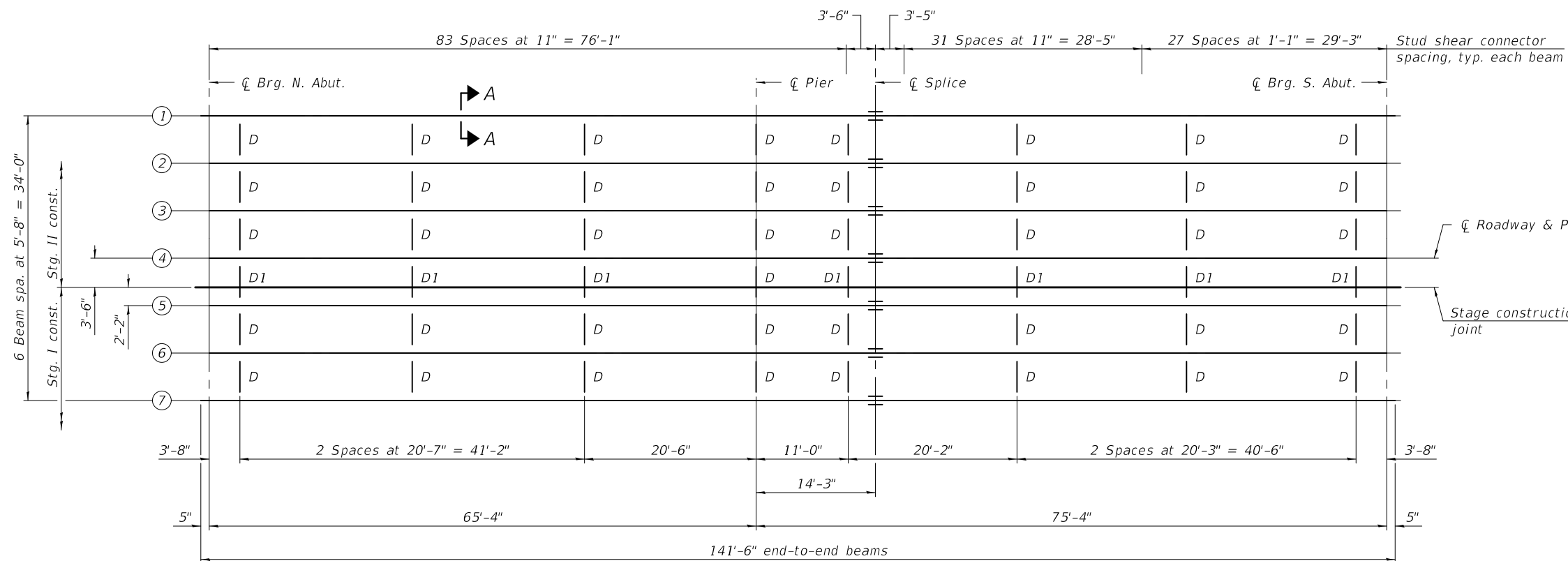
DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Kasper</i>	REVISIONS
DRAWN - MICHAEL B. MOSSMAN		
CHECKED - J.M.B. / J.M.O.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	38
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SHEET 13 OF 24 SHEETS

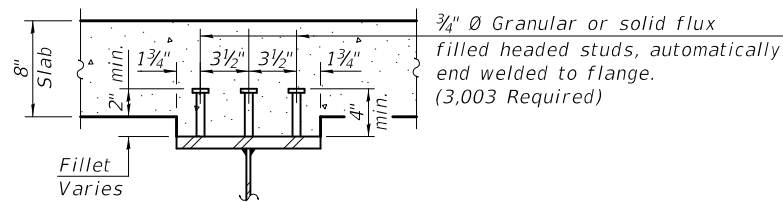


Notes:
 Two hardened washers required for each set of oversized holes.
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
 All splice plates shall be AASHTO M 270, Grade 50.

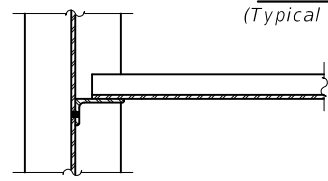
* Alternate C12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

** 3/4" Ø HS bolts, 1 5/16" Ø holes

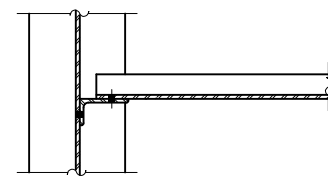
*** Install only one 7/8" Ø HS bolt in center hole at each end of Diaphragm D1. The bolts shall be finger-tightened prior to deck pour to permit rotation of Diaphragm D1. Install 3/4" HS bolts and fully tighten after stage II deck pour is complete.



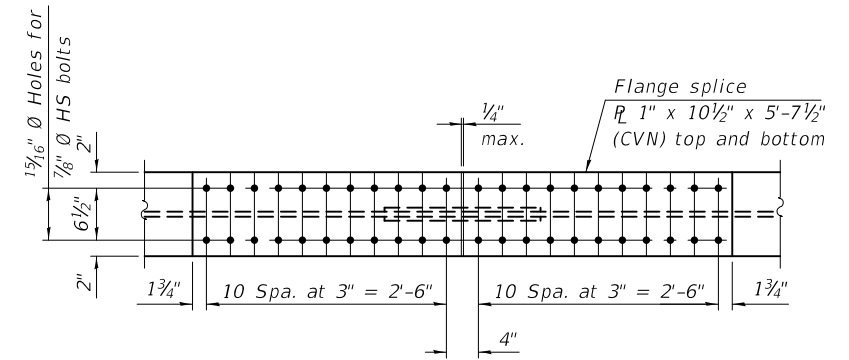
SECTION A-A
 (Typical at each beam)



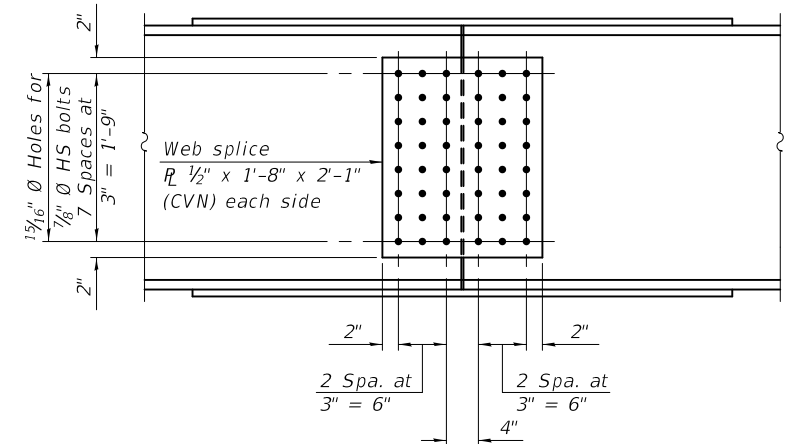
SECTION B-B



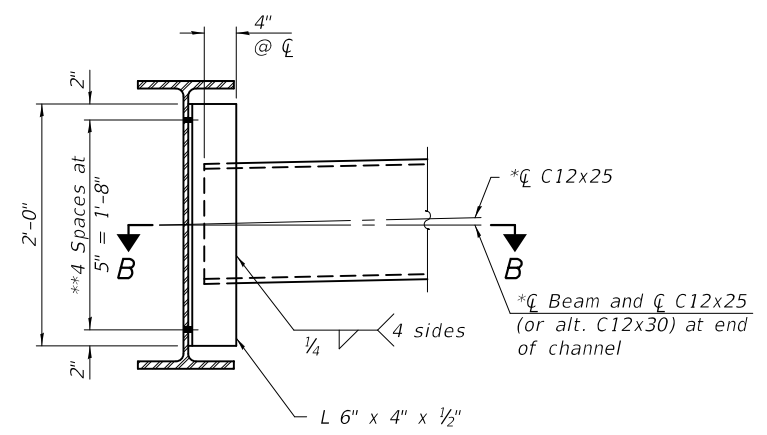
SECTION C-C



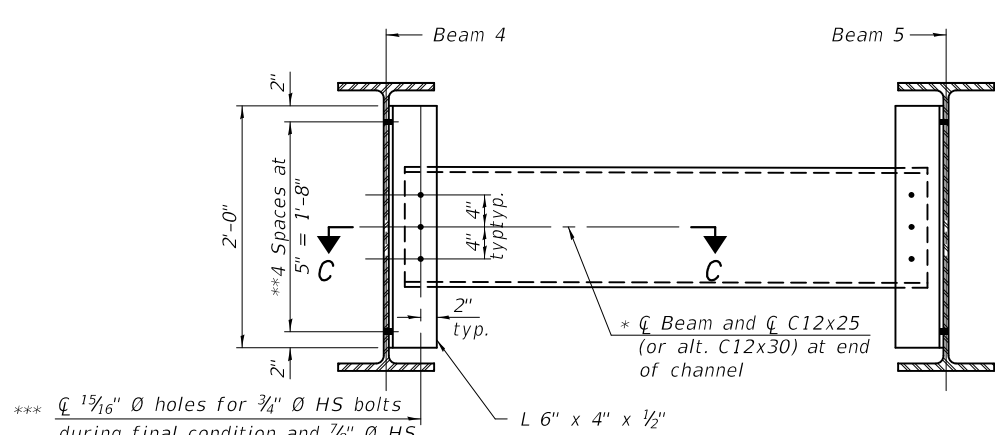
PLAN



ELEVATION



DIAPHRAGM D
 (41 Required)



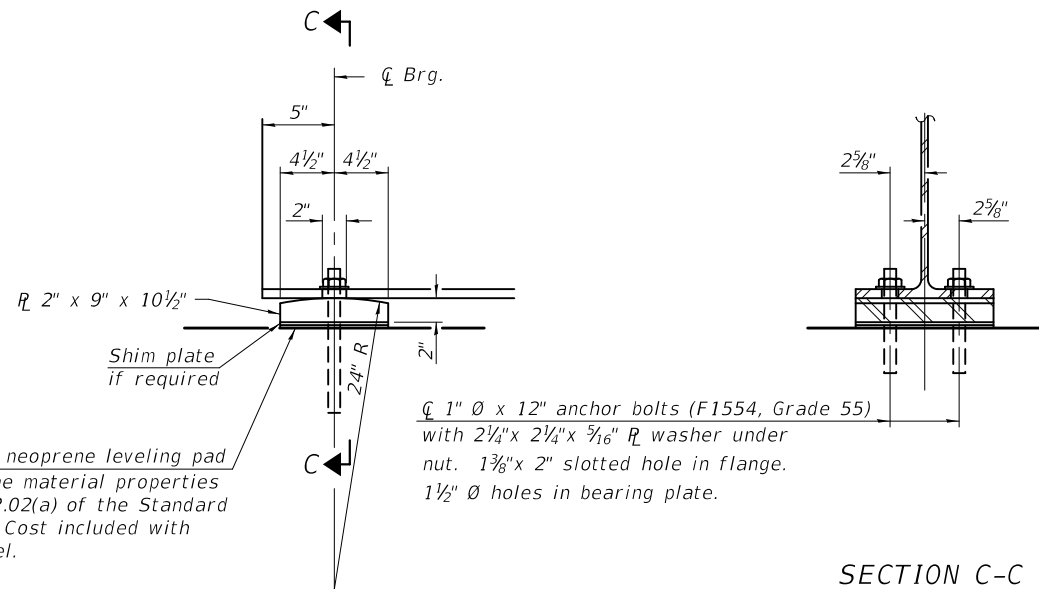
DIAPHRAGM D1
 (7 Required)

SPLICE DETAIL
 (7 Required)

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 FILE NAME: p:\v\0848\BID\INTEG\illmod5.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL STRUCTURE NO. 041 - 0110	F.A.S. RTE. - 2826	SECTION - 2B-2	COUNTY - JEFFERSON	TOTAL SHEETS - 59	SHEET NO. - 39	
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Perry</i>	REVISER -			CONTRACT NO. 78149					
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISER -			ILLINOIS FED. AID PROJECT					
CHECKED - J.M.B. / J.M.O.					SHEET 14 OF 24 SHEETS					

MODEL: 0410110-78149-015
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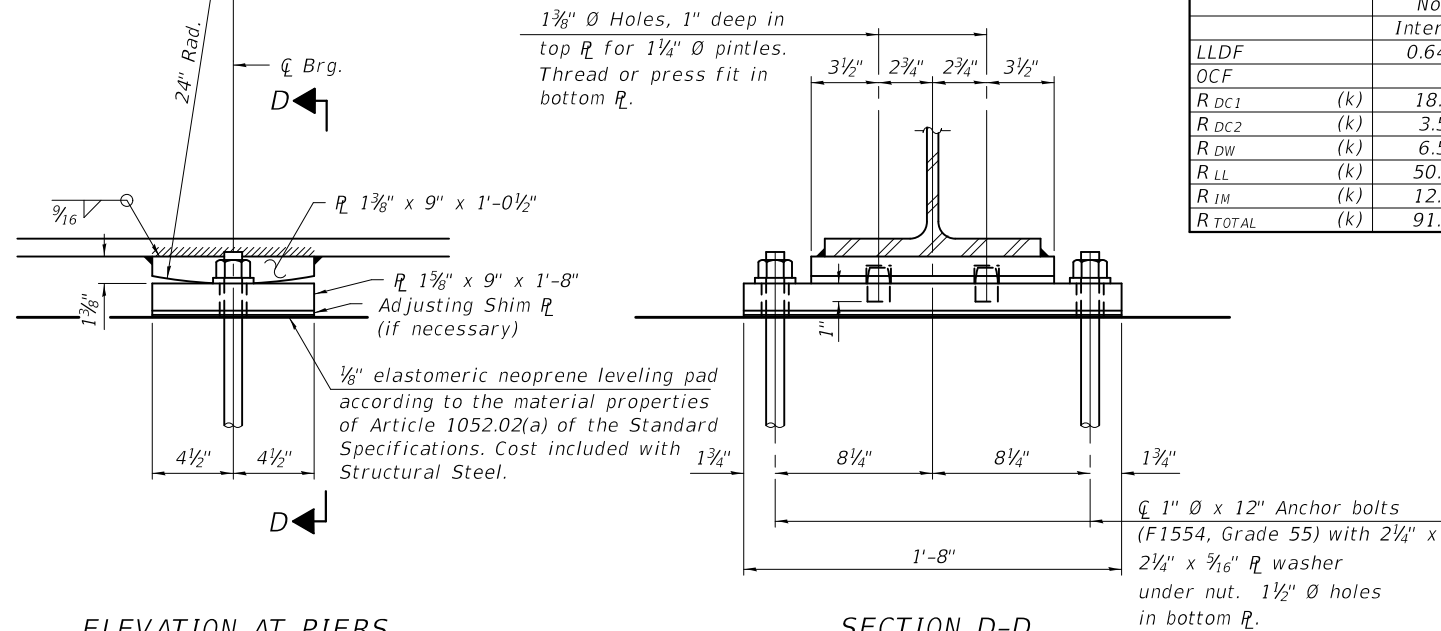


1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT

FIXED BEARING
(14 Required)

1 3/8" Ø Holes, 1" deep in top flange for 1 1/4" Ø pintles. Thread or press fit in bottom flange.



ELEVATION AT PIERS

FIXED BEARING
(7 Required)

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.

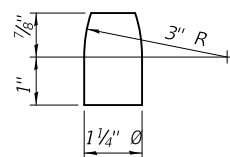
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

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.

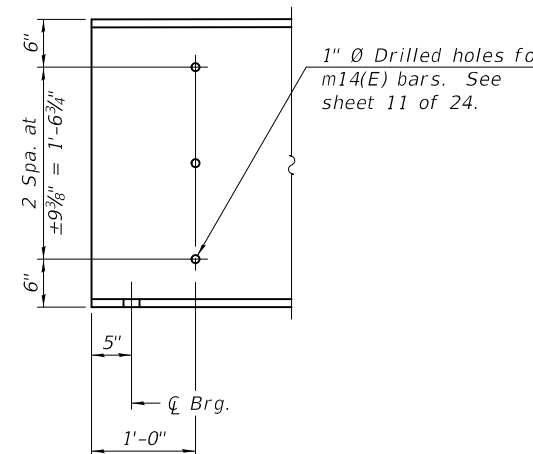
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor will not be allowed.



PINTLE

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
Is	(in ⁴)	6680	6680	6680
Ic(n)	(in ⁴)	17504	17504	17504
Ic(3n)	(in ⁴)	12689	12689	12689
Ic(cr)	(in ⁴)	-	8662	-
Ss	(in ³)	436	436	436
Sc(n)	(in ³)	637	-	637
Sc(3n)	(in ³)	572	-	572
Sc(cr)	(in ³)	-	490.2	-
DC1	(k/ft)	0.75	0.75	0.75
MDC1	(k)	198	466	324
DC2	(k/ft)	0.15	0.15	0.15
MDC2	(k)	39	94	64
DW	(k/ft)	0.283	0.283	0.283
MDW	(k)	74	178	122
LLDF		0.490	0.481	0.473
M _{l + IM}	(k)	609	651	699
Mu (Strength I)	(k)	1472.6	2106.8	1892.2
Øf Mn	(k)	3152.2	2168.5	3152.2
fs DC1	(ksi)	5.5	12.8	8.9
fs DC2	(ksi)	0.8	2.3	1.3
fs DW	(ksi)	1.5	4.4	2.6
fs (l+IM)	(ksi)	11.4	15.9	13.1
fs (Service II)	(ksi)	22.7	39.2	29.9
0.95Rh Fyf	(ksi)	47.5	47.5	47.5
fs (Total)(Strength I)	(ksi)	-	-	-
Øf Fn	(ksi)	-	-	-
Vf	(k)	24.7	-	24.7

	GIRDER REACTION TABLE						
	North Abutment		Pier		South Abutment		
	Interior	Exterior	Interior	Exterior	Interior	Exterior	
LLDF	0.646	0.494	0.646	0.494	0.646	0.494	
OCF							
R _{DC1}	(k)	18.1	16.3	66.1	62.5	22.8	20.6
R _{DC2}	(k)	3.5	3.5	13.2	13.2	4.4	4.4
R _{DW}	(k)	6.5	5.9	25.0	22.7	8.3	7.5
R _{LL}	(k)	50.4	38.5	83.9	64.5	52.8	40.4
R _{IM}	(k)	12.7	9.8	16.9	13.0	13.0	9.9
R _{TOTAL}	(k)	91.2	74.0	205.1	175.9	101.3	83.0



END OF BEAM
ELEVATION
(Typical at each end of each beam)

BILL OF MATERIAL

Item	Unit	Quantity
Anchor Bolts, 1"	Each	42

- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{l + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- Mu (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_{l + IM}
- Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ Snc
- fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.
- fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.
- fs (l+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{l + IM} / Sc(n) or MDW / Sc(cr) as applicable.
- fs (Service II): Sum of stresses as computed below (ksi).
fsDC1 + fsDC2 + fsDW + 1.3 fs(l + IM)
- 0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(l + IM)
- Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- Vf: Maximum factored shear range in span computed according to Article 6.10.10.
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.

*TOP OF BEAM ELEVATIONS

Location	Ø Brg. N. Abut.	Ø Brg. Pier 1	Ø Splice 1	Ø Brg. S. Abut.
Beam 1	414.81	414.83	414.83	414.81
Beam 2	414.92	414.94	414.94	414.92
Beam 3	415.01	415.02	415.03	415.01
Beam 4	415.09	415.11	415.11	415.09
Beam 5	415.01	415.02	415.03	415.01
Beam 6	414.92	414.94	414.94	414.92
Beam 7	414.81	414.83	414.83	414.81

* For fabrication use only.

DESIGNED -	JERRY BISHOFF
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

EXAMINED	<i>Joanne F. Joffe</i>	DATE -	FEBRUARY 13, 2018
PASSED	<i>Carl Berger</i>	REVISOR -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -	

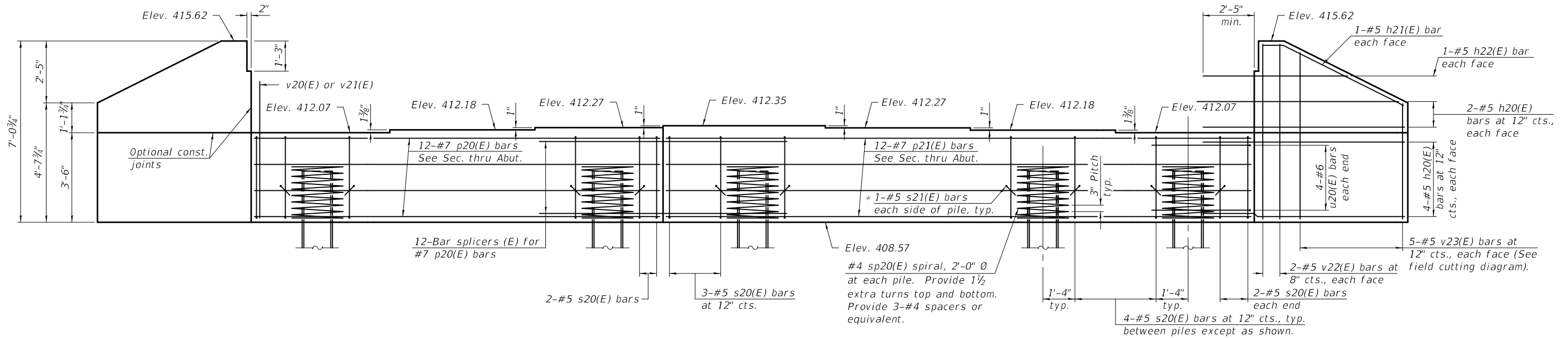
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 041 - 0110

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	40
CONTRACT NO. 78149				
ILLINOIS		FED. AID PROJECT		

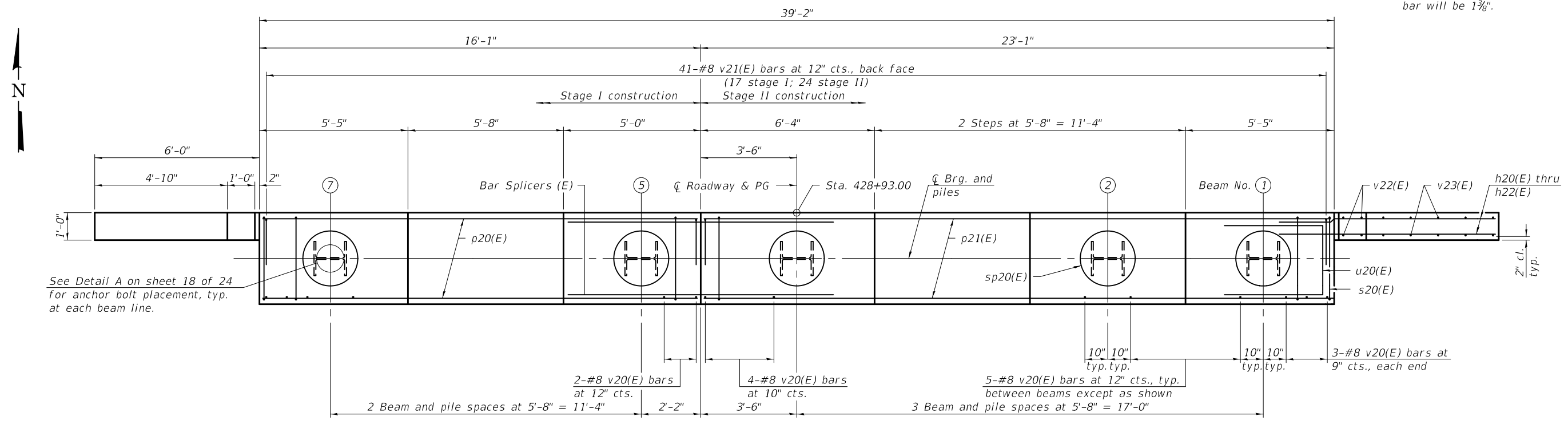
SHEET 15 OF 24 SHEETS

Notes:
 Pour steps monolithically with cap.
 See sheet 18 of 24 for additional abutment details and Bill of Material.
 For bar splicer details, see sheet 22 of 24.
 For details of piles, see sheet 21 of 24.



ELEVATION

* Hook s21(E) bar around p20(E) or p21(E) and s20(E) bars. Clear cover for the s21(E) bar will be 1 3/8".



PLAN

PILE DATA

Type: HP 14 x 117
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 485 kips
 Est. Length: 39 ft.
 No. Production Piles: 6
 No. Test Piles: 1

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DESIGNED - JERRY BISHOFF	EXAMINED	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED	REVISOR
DRAWN - MICHAEL B. MOSSMAN		REVISION
CHECKED - J.M.B. / J.M.O.		

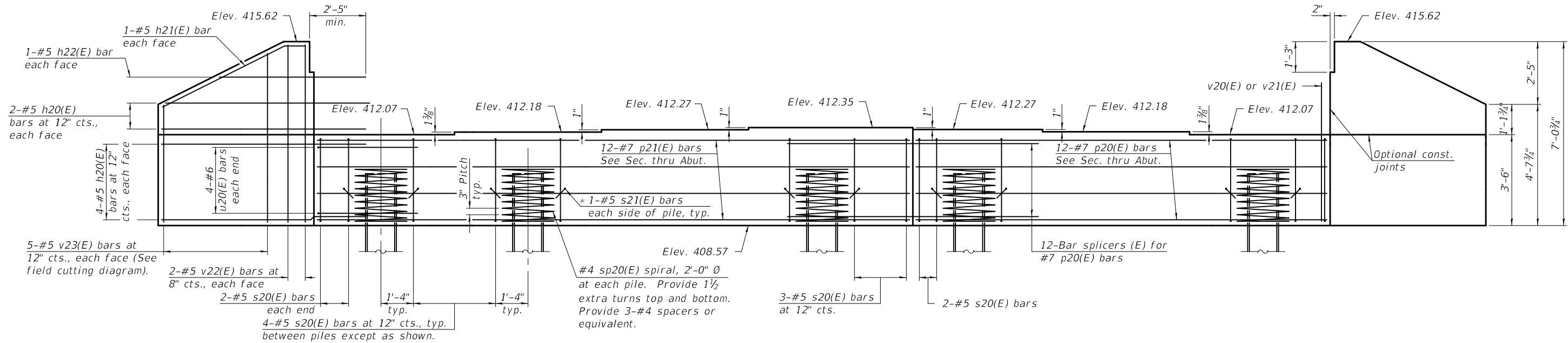
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
 STRUCTURE NO. 041 - 0110

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	41
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

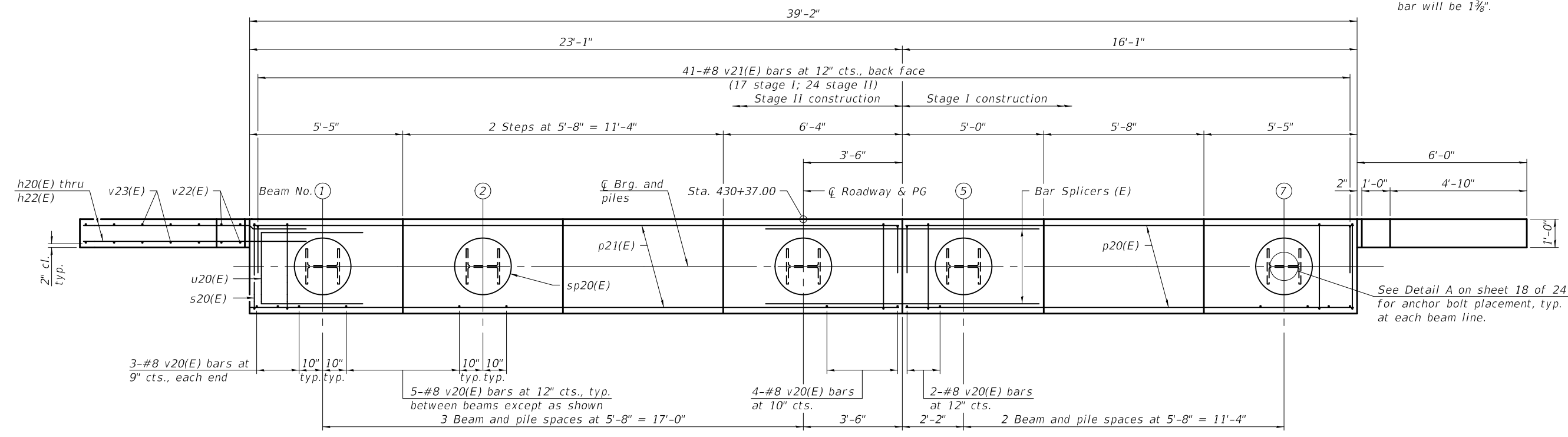
SHEET 16 OF 24 SHEETS

Notes:
 Pour steps monolithically with cap.
 See sheet 18 of 24 for additional abutment details and Bill of Material.
 For bar splicer details, see sheet 22 of 24.
 For details of piles, see sheet 21 of 24.



ELEVATION

* Hook s21(E) bar around p20(E) or p21(E) and s20(E) bars. Clear cover for the s21(E) bar will be 1 3/8".



PLAN

See Detail A on sheet 18 of 24 for anchor bolt placement, typ. at each beam line.

PILE DATA

Type: HP 14 x 117
 Nominal Required Bearing: 929 kips
 Factored Resistance Available: 511 kips
 Est. Length: 45 ft.
 No. Production Piles: 6
 No. Test Piles: 1

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DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Perry</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - J.M.B./J.M.O.		

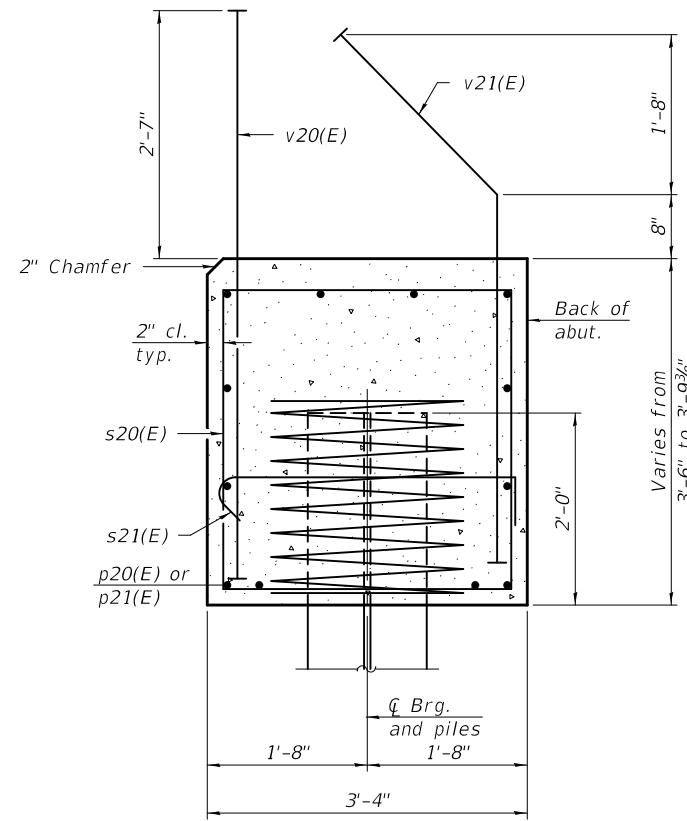
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
 STRUCTURE NO. 041 - 0110

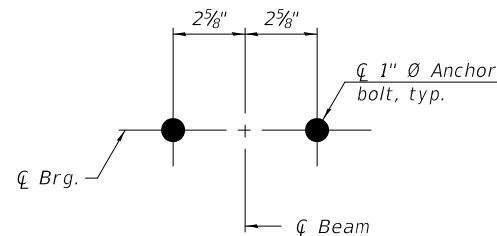
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	42
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SHEET 17 OF 24 SHEETS

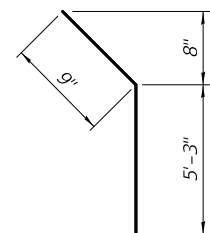
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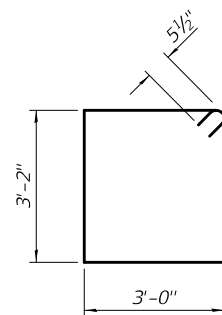
SECTION THRU ABUTMENT



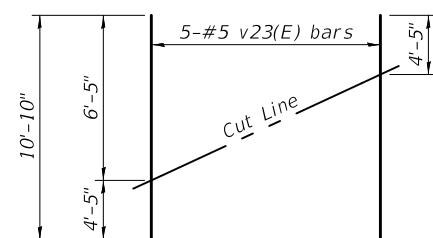
DETAIL A



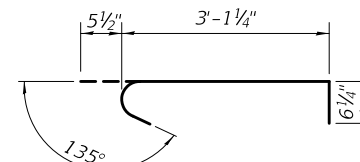
BARS h21(E)



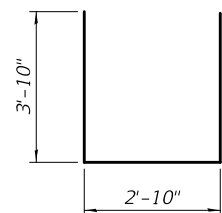
BAR s20(E)



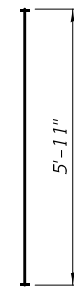
FIELD CUTTING DIAGRAM
 Order v23(E) full length. Cut as shown and use remainder of bars in opposite face.



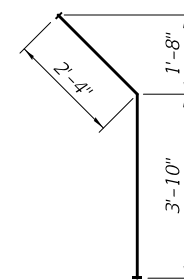
BAR s21(E)



BAR u20(E)



BAR v20(E) (Headed)



BAR v21(E) (Headed)

**NORTH ABUTMENT
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h20(E)	24	#5	8'-3"	—
h21(E)	4	#5	6'-0"	—
h22(E)	4	#5	5'-11"	—
p20(E)	12	#7	15'-9"	—
p21(E)	12	#7	22'-9"	—
s20(E)	29	#5	13'-3"	—
s21(E)	14	#5	4'-1"	—
sp20(E)	7	#4	2'-0"	—
u20(E)	8	#6	10'-6"	—
v20(E)	37	#8	5'-11"	—
v21(E)	41	#8	6'-2"	—
v22(E)	8	#5	6'-9"	—
v23(E)	10	#5	10'-10"	—
Structure Excavation		Cu. Yd.	96	
Concrete Structures		Cu. Yd.	20.3	
Reinforcement Bars, Epoxy Coated		Pound	3,540	
Furnishing Steel Piles, HP 14x117		Foot	234	
Driving Piles		Foot	234	
Test Pile Steel HP 14x117		Each	1	

* Length is height of spiral.

**SOUTH ABUTMENT
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h20(E)	24	#5	8'-3"	—
h21(E)	4	#5	6'-0"	—
h22(E)	4	#5	5'-11"	—
p20(E)	12	#7	15'-9"	—
p21(E)	12	#7	22'-9"	—
s20(E)	29	#5	13'-3"	—
s21(E)	14	#5	4'-1"	—
sp20(E)	7	#4	2'-0"	—
u20(E)	8	#6	10'-6"	—
v20(E)	37	#8	5'-11"	—
v21(E)	41	#8	6'-2"	—
v22(E)	8	#5	6'-9"	—
v23(E)	10	#5	10'-10"	—
Structure Excavation		Cu. Yd.	96	
Concrete Structures		Cu. Yd.	20.3	
Reinforcement Bars, Epoxy Coated		Pound	3,540	
Furnishing Steel Piles, HP 14x117		Foot	270	
Driving Piles		Foot	270	
Test Pile Steel HP 14x117		Each	1	

Notes:
 For details of piles, see sheet 21 of 24.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Kasper</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGE DESIGN	REVISOR -
CHECKED - J.M.B. / J.M.O.	ENGINEER OF BRIDGES AND STRUCTURES	

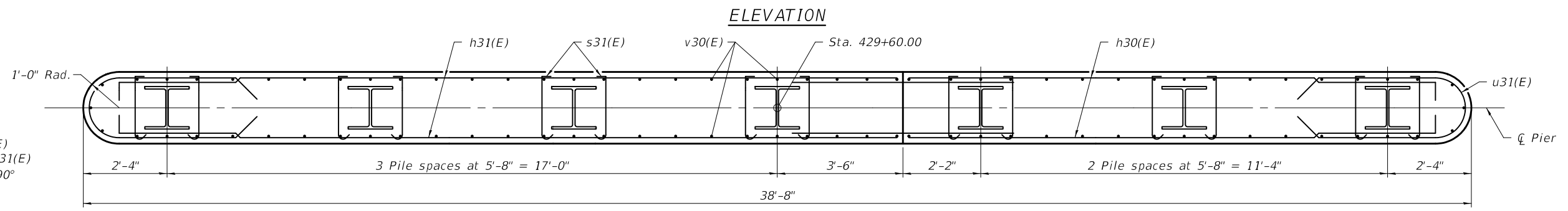
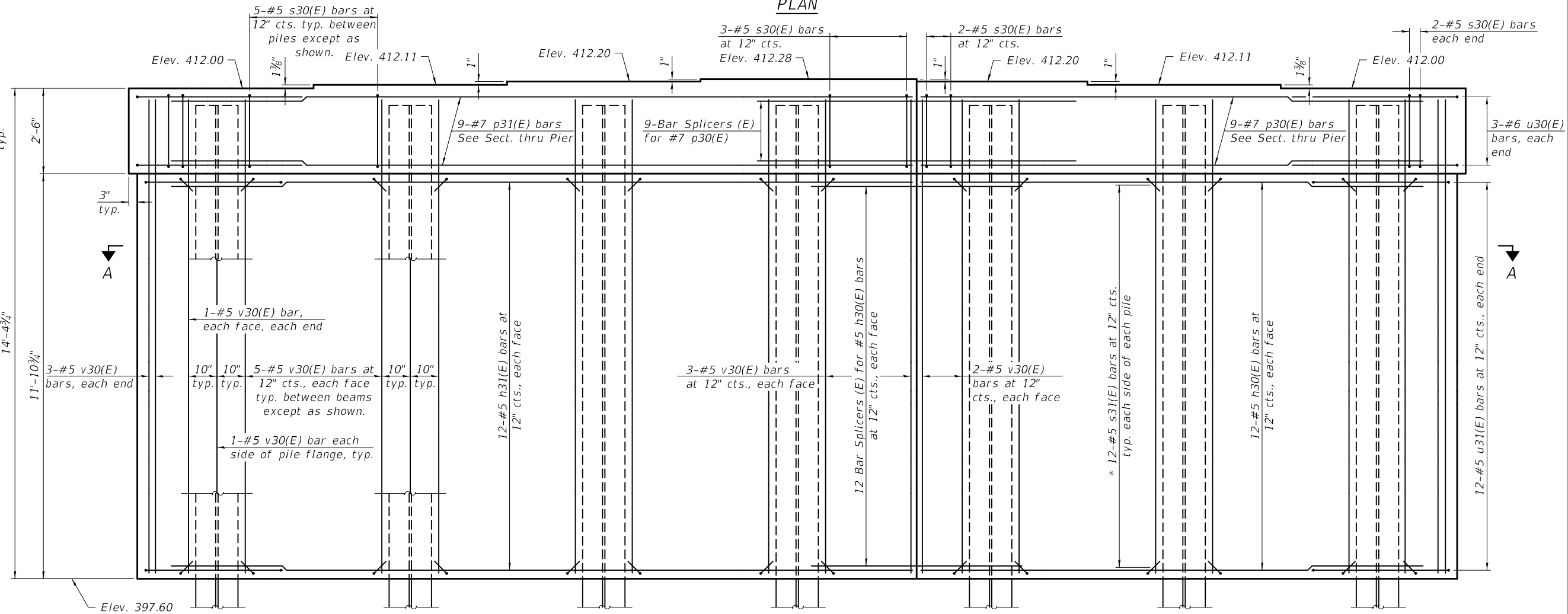
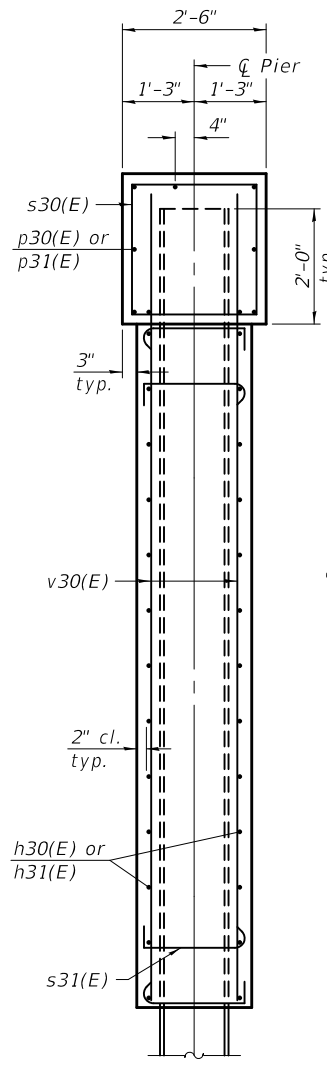
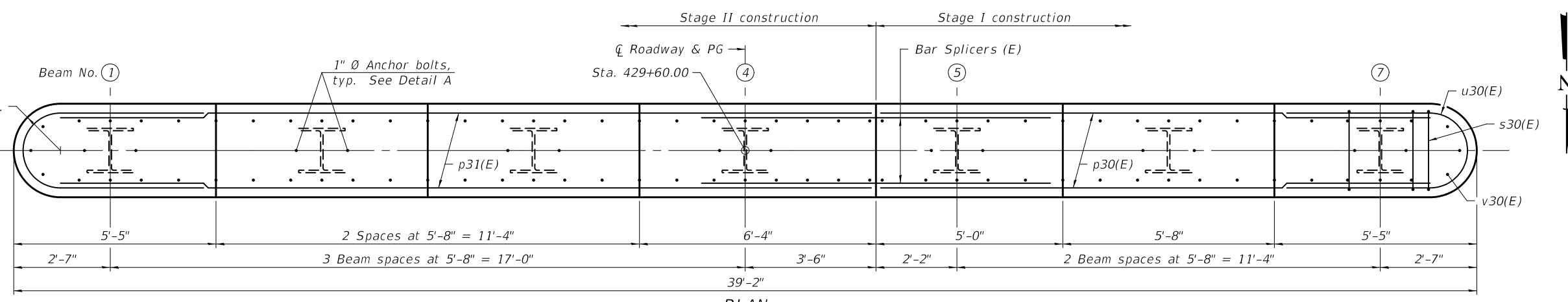
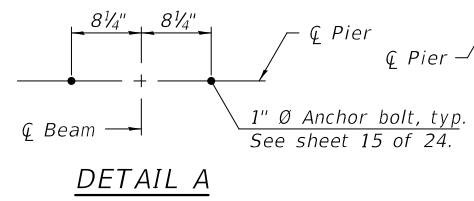
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
 STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	43
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SHEET 18 OF 24 SHEETS

Notes:
 Pour steps monolithically with cap.
 See sheet 20 of 24 for additional pier details and Bill of Material.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 21 of 24. 1'-3" Rad.
 For bar splicer details, see sheet 22 of 24.



* Hook s31(E) bar around h30(E) or h31(E) and v30(E) bars. Clear cover for the s31(E) bar will be 1 3/8". Alternate location of 90° hook every other row.

MODEL: 0410110-78149-019
 FILE NAME: pw:\VIL084EBID\INTEG\Illinois.gov\PWIDOT\Documents\Projects\0410110\CADD\Plans\0410110-78149

DESIGNED -	JERRY BISHOFF
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

EXAMINED
 PASSED
Joanne F. Joffe
 ENGINEER OF BRIDGE DESIGN
Carl Perry
 ENGINEER OF BRIDGES AND STRUCTURES

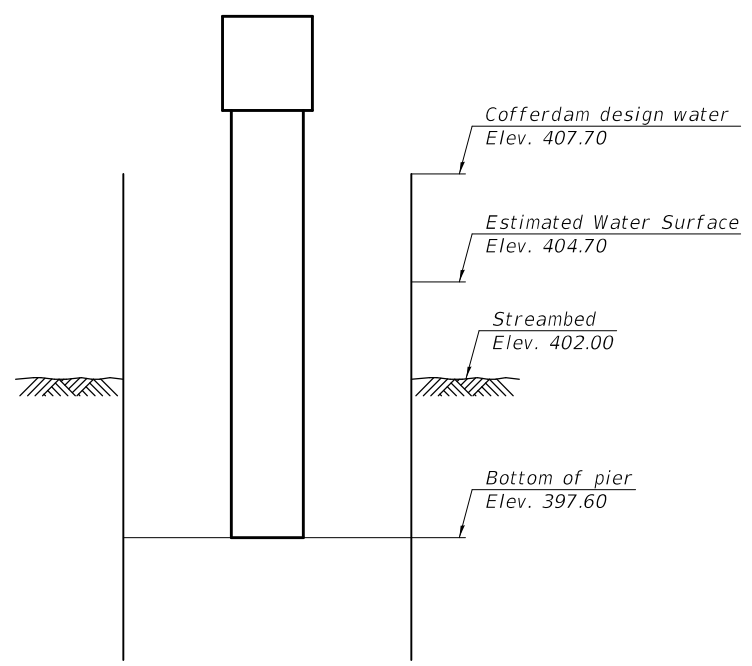
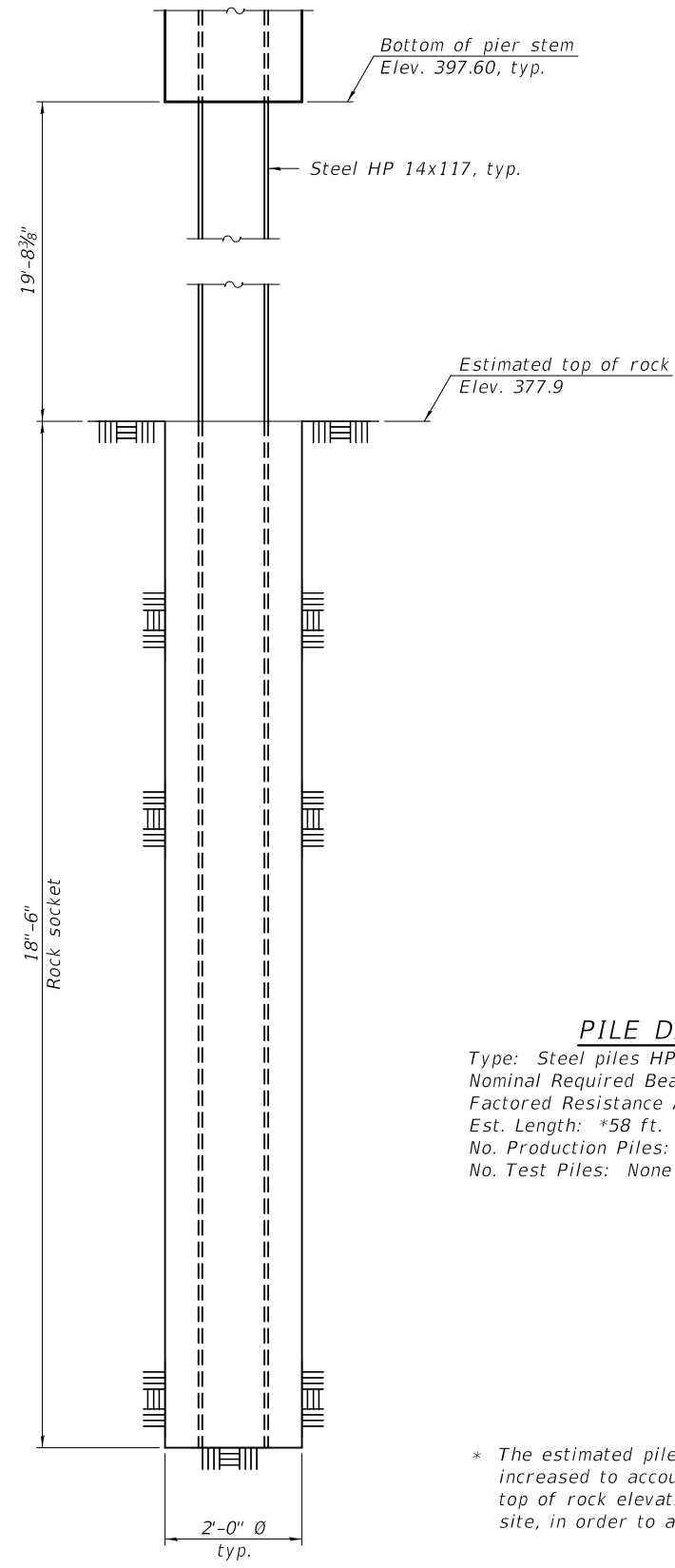
DATE -	FEBRUARY 13, 2018
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER
 STRUCTURE NO. 041-0110

SHEET 19 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	44
CONTRACT NO. 78149				
ILLINOIS		FED. AID PROJECT		



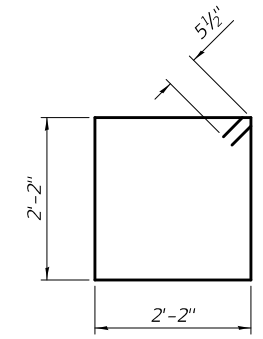
COFFERDAM (TYPE 2)

PILE DATA
 Type: Steel piles HP 14x117
 Nominal Required Bearing: Set in rock
 Factored Resistance Available: 355 kips
 Est. Length: *58 ft.
 No. Production Piles: 7
 No. Test Piles: None

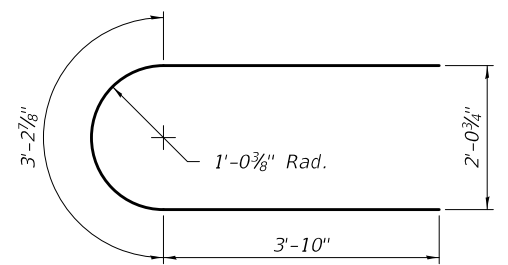
* The estimated pile length has been increased to account for the variable top of rock elevation throughout the site, in order to avoid splicing.

BILL OF MATERIAL

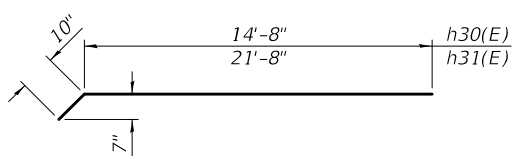
Bar	No.	Size	Length	Shape
h30(E)	24	#5	15'-6"	┌───┐
h31(E)	24	#5	22'-6"	┌───┐
p30(E)	9	#7	14'-8"	───
p31(E)	9	#7	21'-8"	───
s30(E)	34	#5	9'-7"	┌──┐
s31(E)	168	#5	2'-9"	┌──┐
u30(E)	6	#6	10'-11"	┌──┐
u31(E)	24	#5	10'-10"	┌──┐
v30(E)	84	#5	13'-10"	───
Cofferdam Excavation		Cu. Yd.	24	
Cofferdam (Type 2) (Location-1)		Each	1	
Concrete Structures		Cu. Yd.	43.2	
Reinforcement Bars, Epoxy Coated		Pound	4,020	
Furnishing Steel Piles, HP 14x117		Foot	406	
Setting Piles in Rock		Each	7	



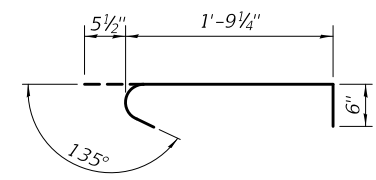
BAR s30(E)



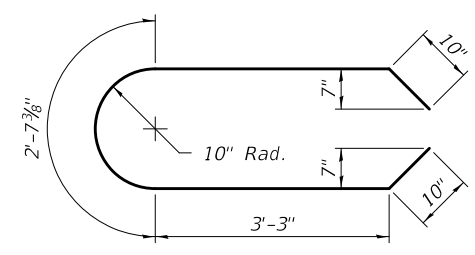
BAR u30(E)



BARS h30(E) & h31(E)



BAR s31(E)



BAR u31(E)

ROCK SOCKET DETAIL

MODEL: 0410110-78149-020
 FILE NAME: p:\v\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED - JERRY BISHOFF	EXAMINED - <i>Jaime F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Kasper</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - J.M.B. / J.M.O.		

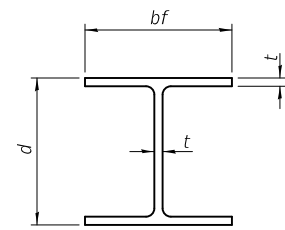
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER DETAILS
 STRUCTURE NO. 041 - 0110

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	45
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

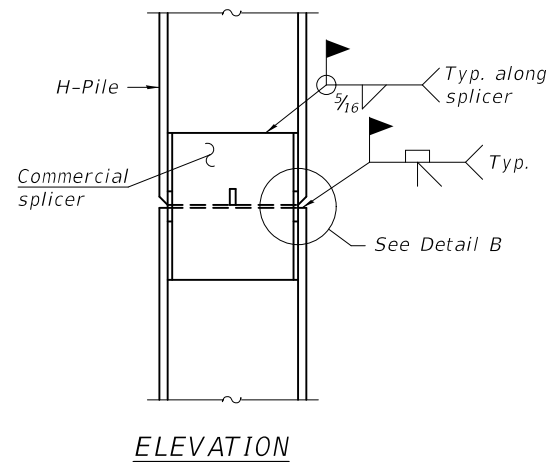
SHEET 20 OF 24 SHEETS

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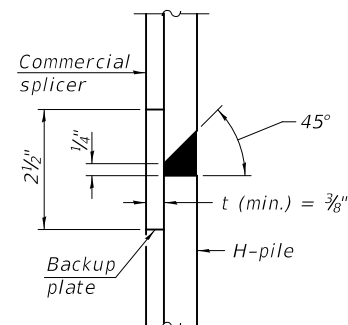


STEEL PILE TABLE

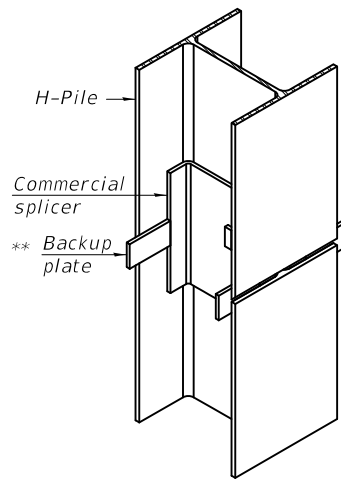
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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

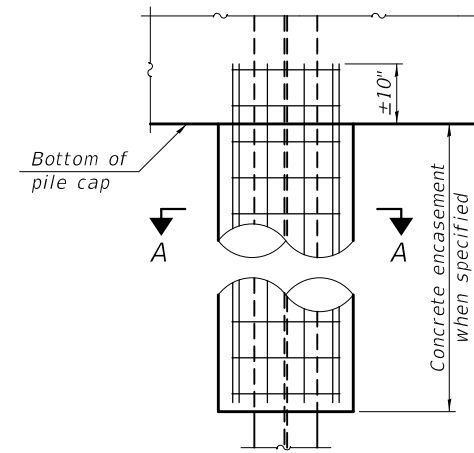


DETAIL "B"

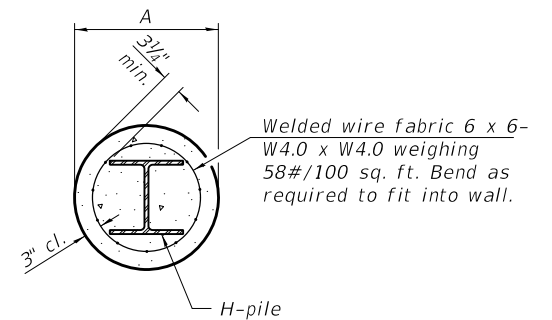


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

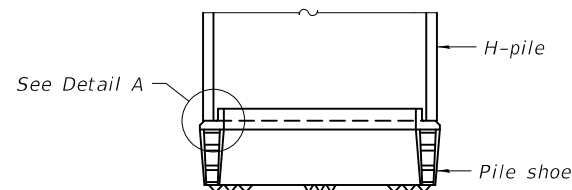


ELEVATION

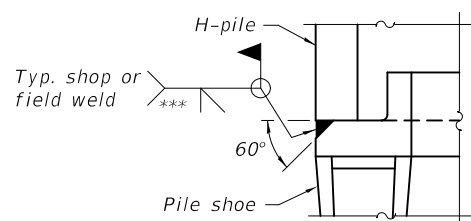


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



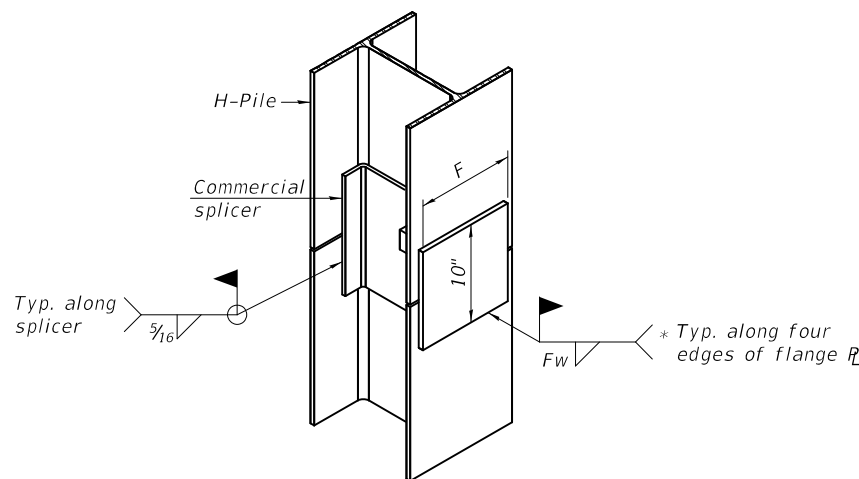
ELEVATION



DETAIL A

SHOE ATTACHMENT

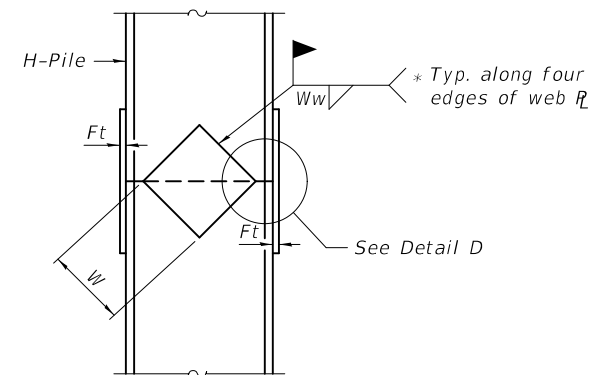
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



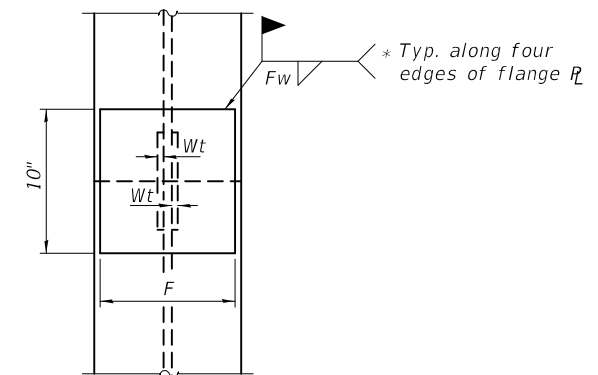
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

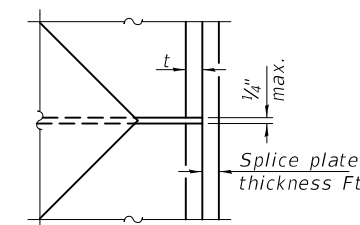
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



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"

MODEL: 0410110-78149-021
FILE NAME: p:\v\0848\ID\INTEG\ilmod5.gov\PW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

F-HP 8-11-2017

DESIGNED - JERRY BISHOFF	EXAMINED
CHECKED - JOSHUA M. ODORIZZI	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.M.B. / J.M.O.	

DATE - FEBRUARY 13, 2018

 ENGINEER OF BRIDGE DESIGN

 ENGINEER OF BRIDGES AND STRUCTURES

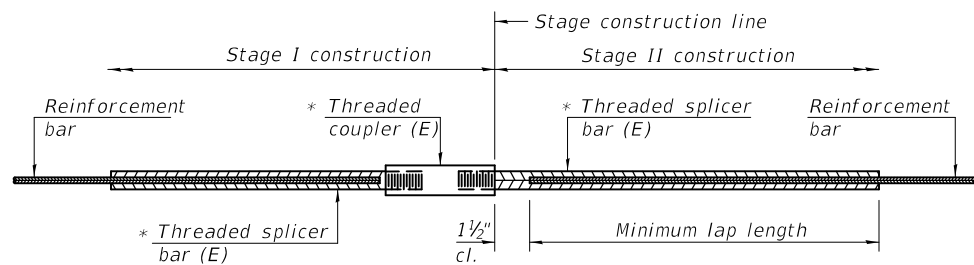
REVISIONS	
REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 041 - 0110

SHEET 21 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	46
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

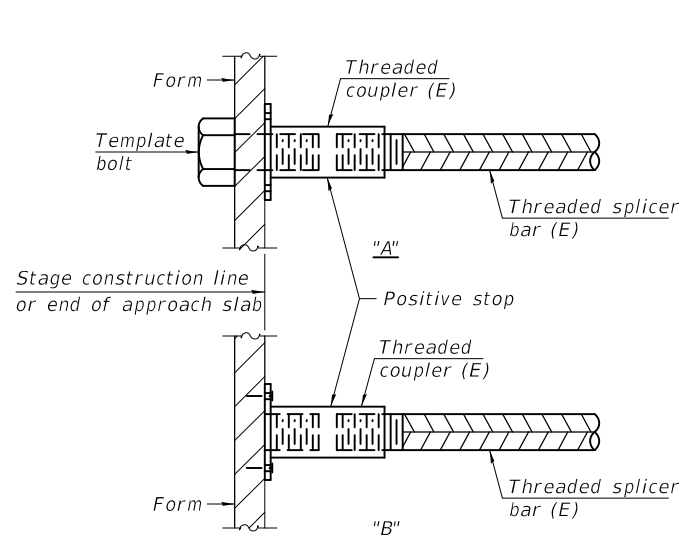


STANDARD BAR SPLICER ASSEMBLY

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

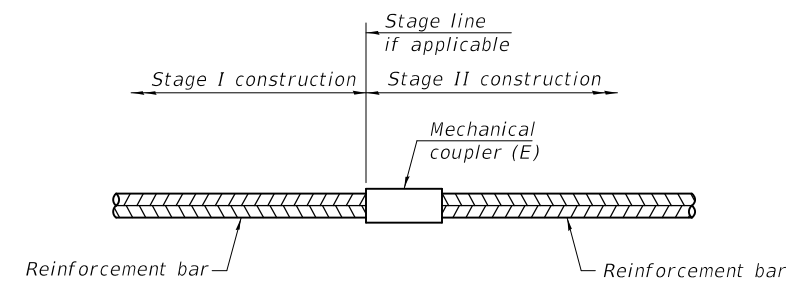
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of slab	#5	240	3'-6"
Bottom of slab	#5	163	3'-6"
Front face of diaphragms	#6	6	4'-0"
Back face of diaphragms	#6	8	4'-0"
Top of approach slabs	#5	92	3'-6"
Bottom of approach slabs	#8	120	4'-9"
Top and bottom of approach footings	#5	80	3'-7"
Abutments	#7	24	5'-0"
Pier cap	#7	9	5'-0"
Pier stem	#5	24	3'-7"



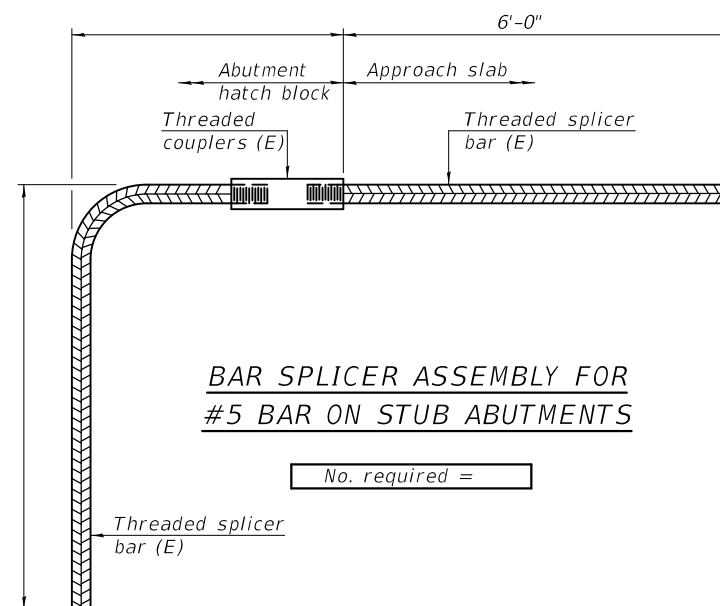
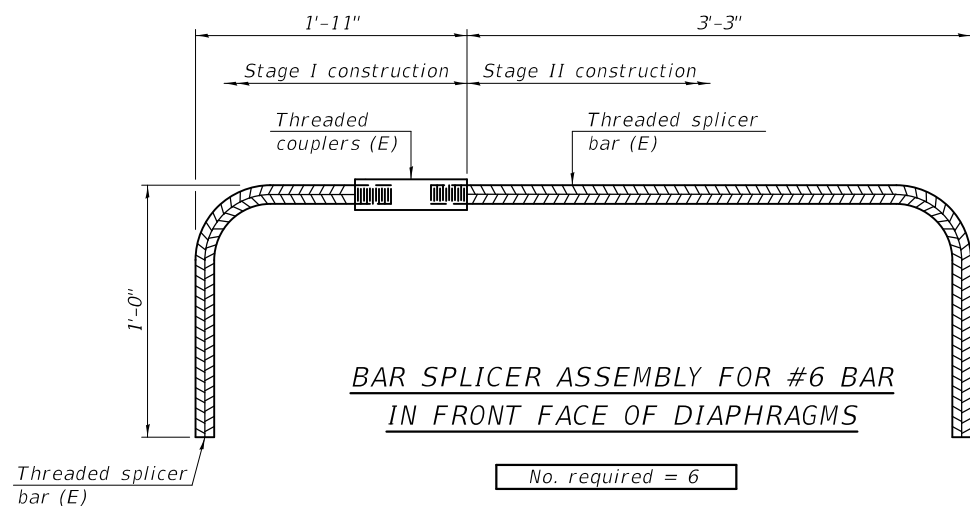
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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.

MODEL: 0410110-78149-022
 FILE NAME: p:\w\l\0848\BID\INTEG\illinois.gov\PWIDOT\Documents\Projects\0410110\CADD Plans\0410110-78149

BSD-1

2-17-2017

DESIGNED - JERRY BISHOFF	EXAMINED
CHECKED - JOSHUA M. ODORIZZI	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.M.B. / J.M.O.	

DATE - FEBRUARY 13, 2018
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -	
REVISD -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 041 - 0110

SHEET 22 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	47
CONTRACT NO. 78149				

ILLINOIS FED. AID PROJECT

Page 1 of 2

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 2/24/09

ROUTE IL 37 DESCRIPTION FAS 2826 (IL 37) over Atchison Creek LOGGED BY R Moberly

SECTION 2B-2 LOCATION 8 miles South of IL 148

COUNTY Jefferson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 041-0036
Station 429+51.30

BORING NO. 1-S
Station 428+65
Offset 6.00ft Lt.
Ground Surface Elev. 415.0 ft

DEPTH (ft)	BLOW COUNT	SPT VALUE	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT	SPT VALUE	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT	SPT VALUE	SOIL DESCRIPTION	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
												ft	ft	ft	ft	ft	ft
414.00			Asphalt over Concrete Pvmnt	3	1.2	26	Stiff, moist, brown mottled grey, Silty Clay Loam A-6 (continued)					407.1	400.1	402.5	401.1		
411.50	2	1.4	Stiff, moist, grey, Silty Clay Loam A-4	1													
411.00	4	1.4	Concrete Pavement	2	1.4	26											
411.00	4	B	Stiff, moist, grey, Silt Loam A-4	2	B												
390.50			Concrete Pavement	2	B												
390.50			Stiff, moist, grey, Silt Loam A-4	2	B												
408.00	1	0.8	Medium, very moist, grey, Silt Loam A-4	5	1.2	17	Medlum to soft, very moist, grey, Clay to Silty Clay A7-6	25	WH	0.5	21						
405.50	2	0.8	Very soft, wet, grey, Silt Loam A-4	3	S												
388.00	3	S	Medium, very moist, grey, Silt Loam A-4	1			Stiff, moist, brown and grey, Sandy Clay Loam A-4	1									
385.50	10	5.0	Very soft, wet, grey, Silt Loam A-4	15	S	14	Hard, damp, grey, Clay Loam A-6	30	3								
382.00	4		Very soft, wet, grey, Silt Loam A-4	10	5.0	14											
400.50	1	0.2	Soft, very moist, grey mottled brown, Silty Clay A-6	22			Hard, damp, grey, Clay Shale	78									
398.00	3	0.9	Medium, very moist, grey mottled brown, Silty Clay A-6	6	B												
395.50	1		Medium, very moist, grey mottled brown, Silty Clay A-6	1			Hard, damp, grey, Clay Shale	40	100	5							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 2/24/09

ROUTE IL 37 DESCRIPTION FAS 2826 (IL 37) over Atchison Creek LOGGED BY R Moberly

SECTION 2B-2 LOCATION 8 miles South of IL 148

COUNTY Jefferson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 041-0036
Station 429+51.30

BORING NO. 1-S
Station 428+65
Offset 6.00ft Lt.
Ground Surface Elev. 415.0 ft

DEPTH (ft)	BLOW COUNT	SPT VALUE	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT	SPT VALUE	SOIL DESCRIPTION	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
								ft	ft	ft	ft	ft	ft
370.00	45	100/4	Hard, damp, grey, Clay Shale (continued)										
44.8			Bottom of hole = 44.8 feet										
12.5			Free water observed at 12.5 feet										
415.3			Elevation referenced to BM @ SE wingwall; Elev. 415.3 feet										
			To convert "N" values to "N60" values, multiply by 1.25.										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: 0410110-78149-023
FILE NAME: p:\w\084EBID\INTEG\Illinois\gov\PWIDOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0410110\CADD Plans\0410110-78149

DESIGNED - JERRY BISHOFF	EXAMINED - <i>Joanne F. Joffe</i>	DATE - FEBRUARY 13, 2018
CHECKED - JOSHUA M. ODORIZZI	PASSED - <i>Carl Berger</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ENGINEER OF BRIDGES AND STRUCTURES	REVISION -
CHECKED - J.M.B. / J.M.O.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 041 - 0110**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	48
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

SHEET 23 OF 24 SHEETS

Page 1 of 2

Illinois Department of Transportation
 Division of Highways
 District Nine Materials

SOIL BORING LOG

Date 2/25/09

ROUTE IL 37 DESCRIPTION FAS 2826 (IL 37) over Atchison Creek LOGGED BY R Moberly

SECTION 2B-2 LOCATION 8 miles South of IL 148

COUNTY Jefferson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. Station	DEPTH H	B L O W S	U C S Qu	M O I S T	Description	DEPTH H	B L O W S	U C S Qu	M O I S T
041-0036 429+51.30					Asphalt over Concrete Pavement				
					413.90				
					Stiff, moist, brown, Silt Loam to Silty Clay Loam A-4				
					392.90				
		1			Stiff, moist to very moist, brown mottled grey, Silt Loam A-4				
		2	1.1	19					
		2							
		2	S						
					411.40				
					Concrete Pavement				
					410.90				
					Stiff, moist, grey, Silty Clay Loam A-4				
					390.40				
					Soft, very moist, brown mottled grey, Silty Clay Loam to Clay Loam A-6				
					-25				
		1							
		3	1.2	22					
		4							
		4	B						
					407.90				
					Medium, very moist, grey, Silty Loam A-4				
					387.90				
					Medium, very moist, grey, Clay to Silty Clay A7-6				
					405.40				
					Medium, very moist, grey, Silty Clay Loam A-4				
					-10				
		1							
		2	0.8	24					
		2							
		2	B						
					402.90				
					Soft, very moist, grey, Silty Clay Loam A-4 with organics				
					382.90				
					Medium, very moist, grey, Sand Loam to Sandy Clay Loam A-4				
					380.40				
					Very loose, wet, grey, Fine Sand to Sand Loam A-2-4 (insufficient recovery to sample)				
					-15				
		WR							
		WH	0.2	32					
		WH							
		WH	B						
					397.90				
					Medium to soft, very moist, grey, Silty Clay Loam A-4				
					377.90				
					Hard, damp, grey, Weathered Clay Shale				
					376.40				
					Hard, dry, grey, Clay Shale				
					395.40				
					-20				
		1							
					404.00/3"				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Illinois Department of Transportation
 Division of Highways
 District Nine Materials

SOIL BORING LOG

Date 2/25/09

ROUTE IL 37 DESCRIPTION FAS 2826 (IL 37) over Atchison Creek LOGGED BY R Moberly

SECTION 2B-2 LOCATION 8 miles South of IL 148

COUNTY Jefferson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. Station	DEPTH H	B L O W S	U C S Qu	M O I S T	Description	DEPTH H	B L O W S	U C S Qu	M O I S T
041-0036 429+51.30					Surface Water Elev. <u>407.1</u> ft				
					Stream Bed Elev. <u>400.1</u> ft				
					Groundwater Elev.:				
					First Encounter <u>382.9</u> ft				
					Upon Completion <u>399.7</u> ft				
					After _____ Hrs.				
					Hard, dry, grey, Clay Shale (continued)				
					369.90				
					Bottom of hole = 44.8				
					Free water observed at 32.0 feet				
					Elevation referenced to BM @ SE wingwall; Elev. 415.3				
					To convert "N" values to "N60" values, multiply by 1.25.				
					-50				
					-55				
					-60				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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 FILE NAME: p:\w\084EBID\INTEG\ilmds.gov\PWIDOT\Documents\Projects\0410110\CADD Plans\0410110-78149

DESIGNED -	JERRY BISHOFF
CHECKED -	JOSHUA M. ODORIZZI
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.B. / J.M.O.

EXAMINED _____
 PASSED _____

Joanne F. [Signature]
 ENGINEER OF BRIDGE DESIGN

[Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - FEBRUARY 13, 2018

REVISED - _____
 REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 041 - 0110

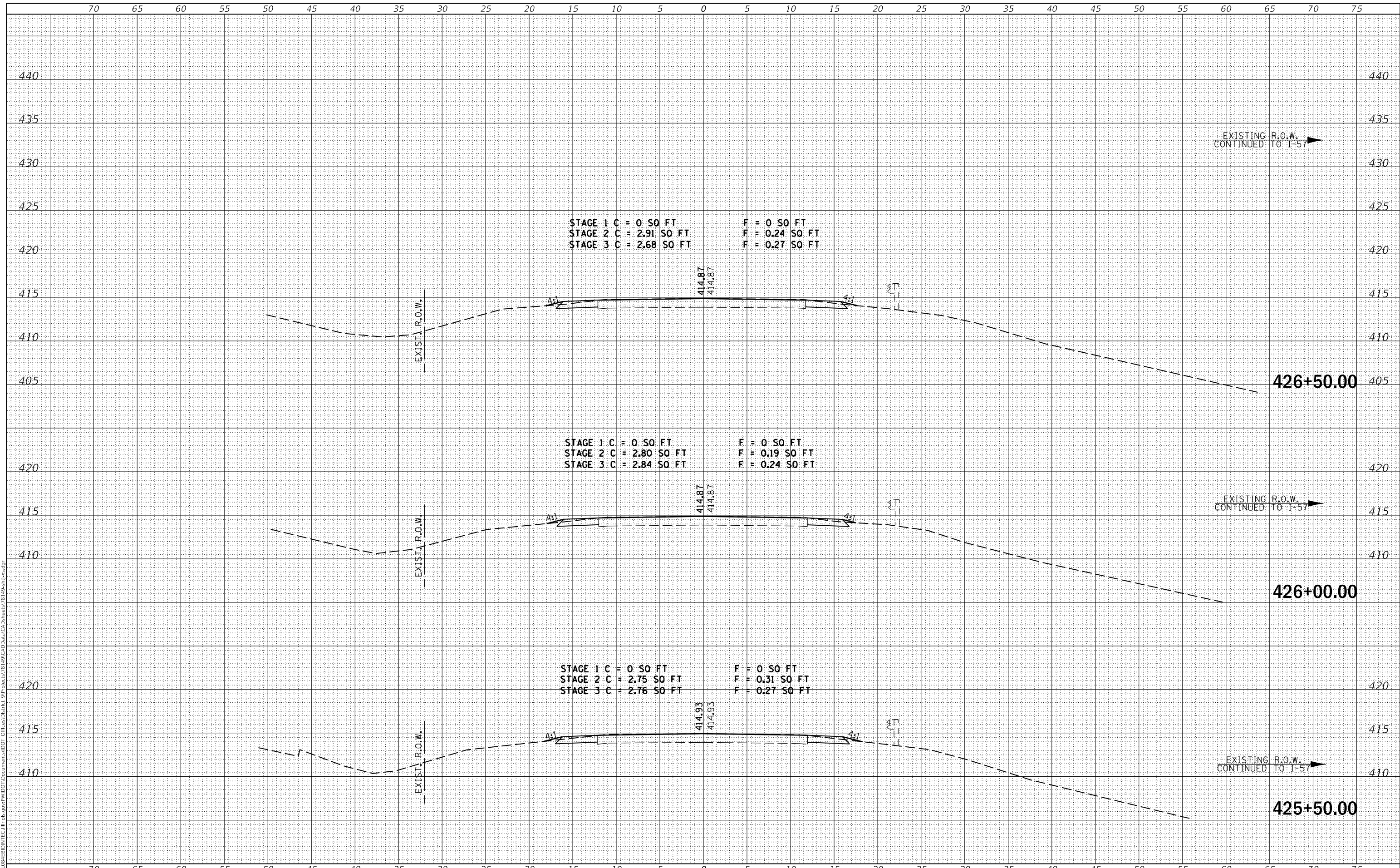
SHEET 24 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	49
CONTRACT NO. 78149				
ILLINOIS		FED. AID PROJECT		

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

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

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	DRAWN -	REVISED -
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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

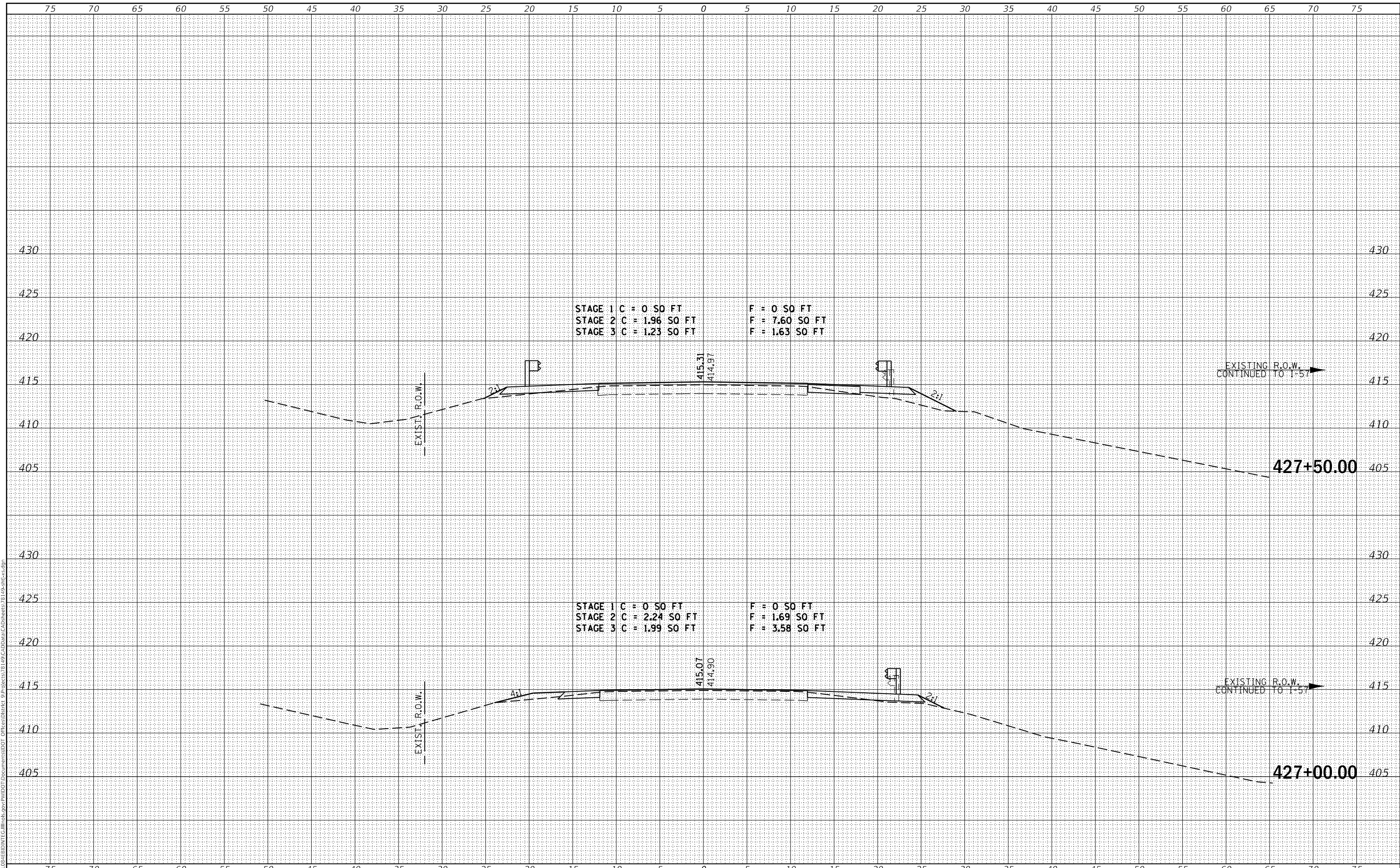
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	50
				CONTRACT NO. 78149
		ILLINOIS	FED. AID PROJECT	

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

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

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	DRAWN -	REVISED -
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PLOT DATE = 12/14/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

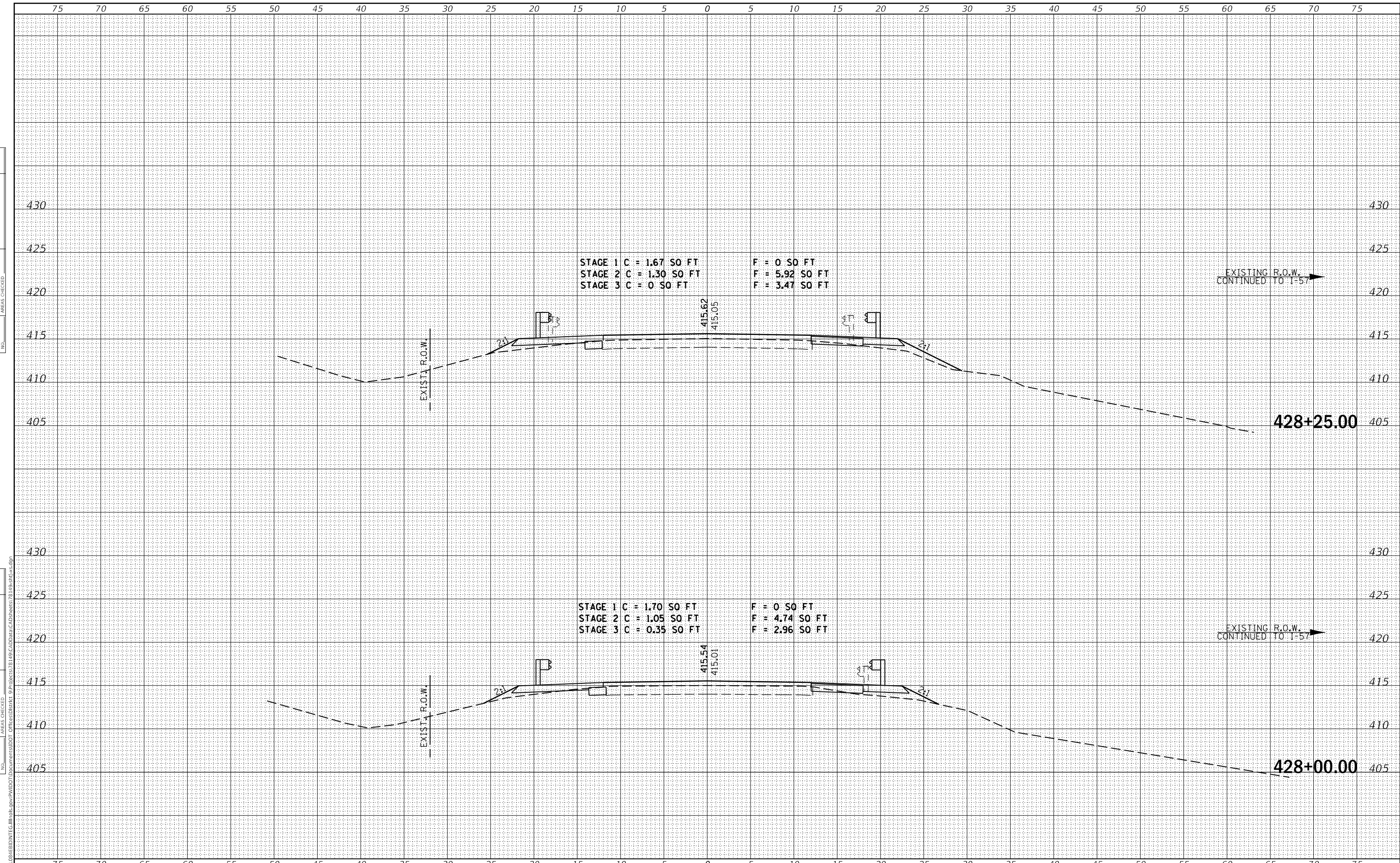
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CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	51
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

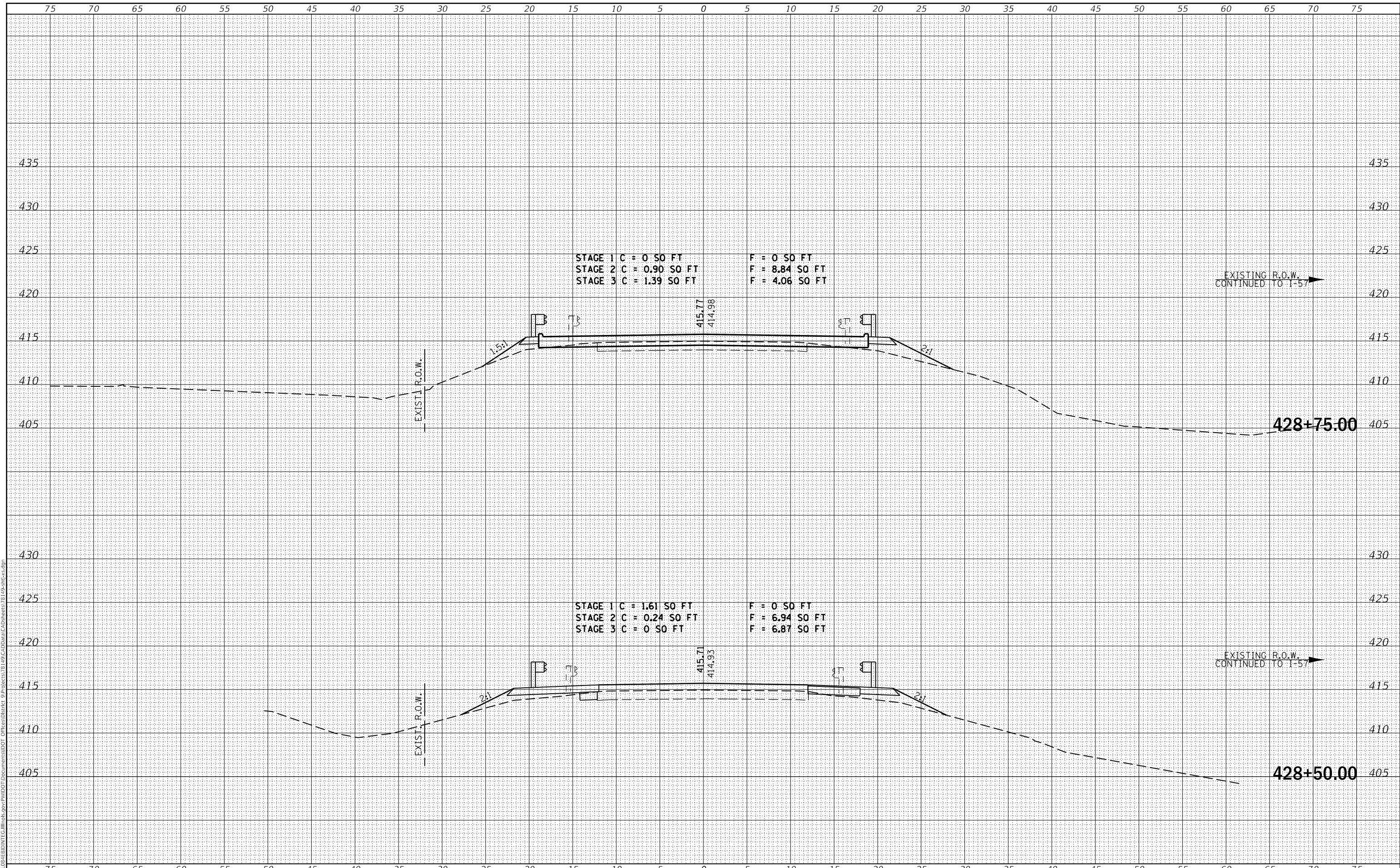
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F.A.S. RTE. 2826	SECTION 2B-2	COUNTY JEFFERSON	TOTAL SHEETS 59	SHEET NO. 52
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

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

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

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	DRAWN -	REVISED -
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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

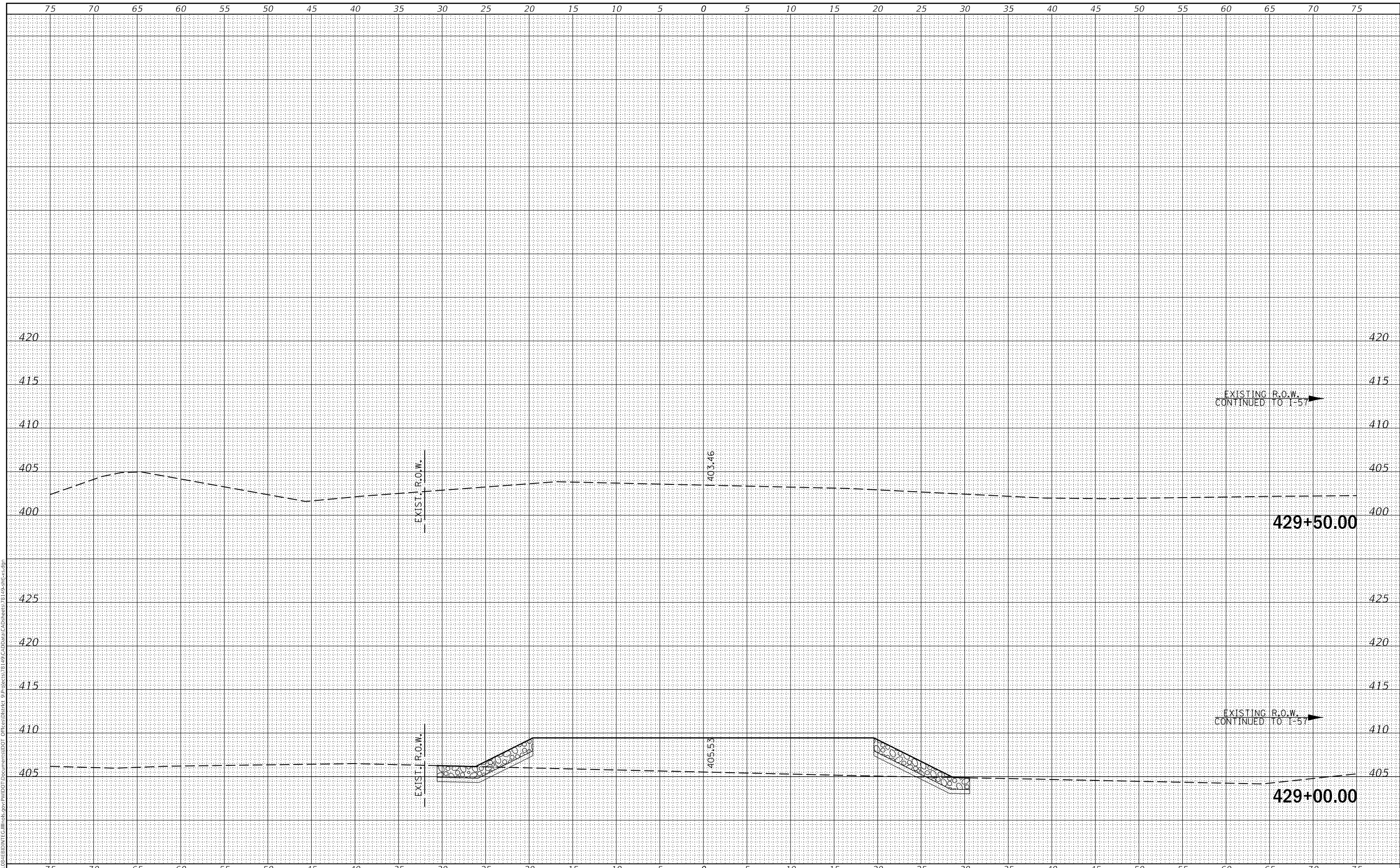
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	53
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

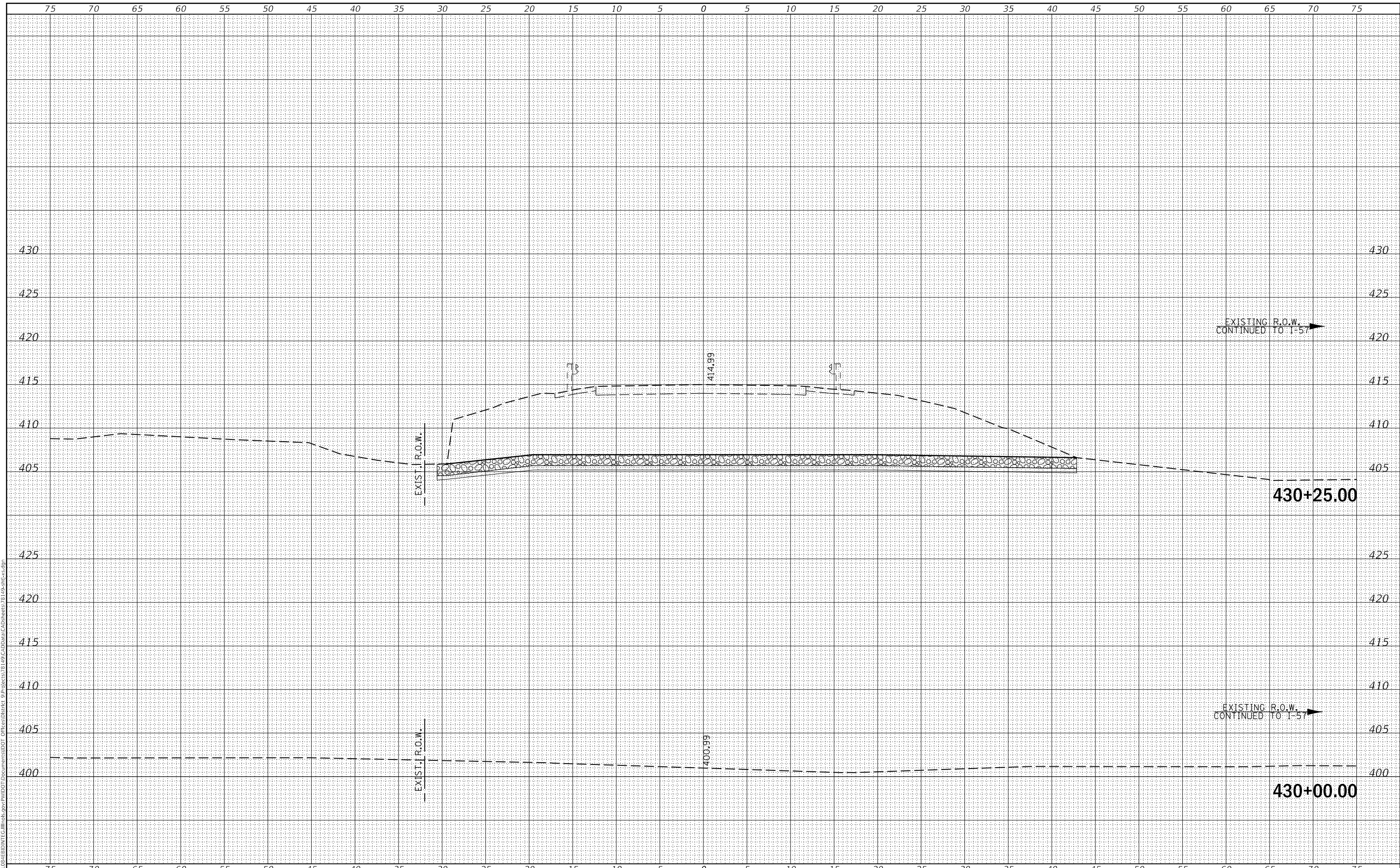
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	54
				CONTRACT NO. 78149
		ILLINOIS	FED. AID PROJECT	

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

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

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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET	OF	SHEETS	STA. 430+00.00	TO STA. 430+25.00
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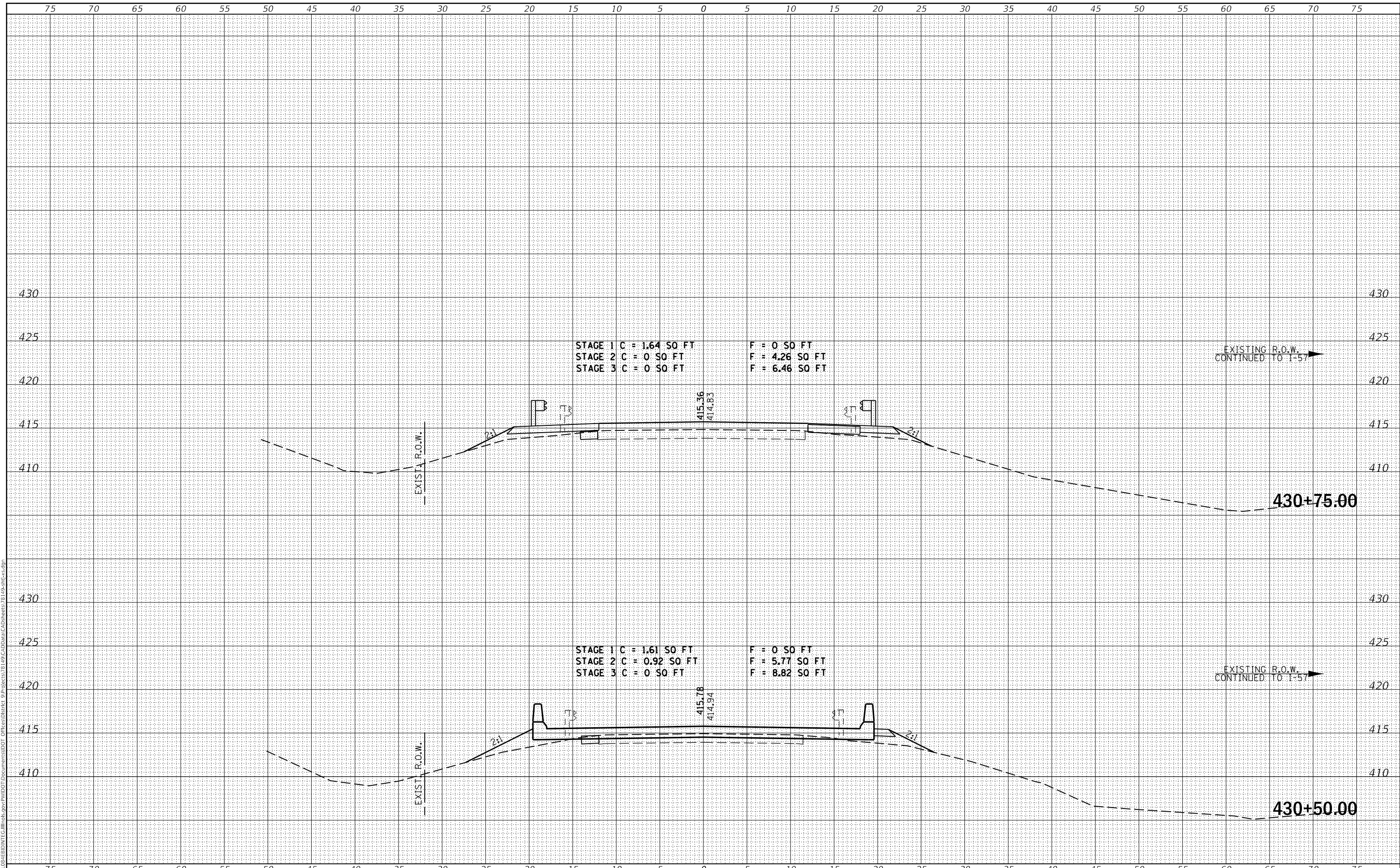
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	55
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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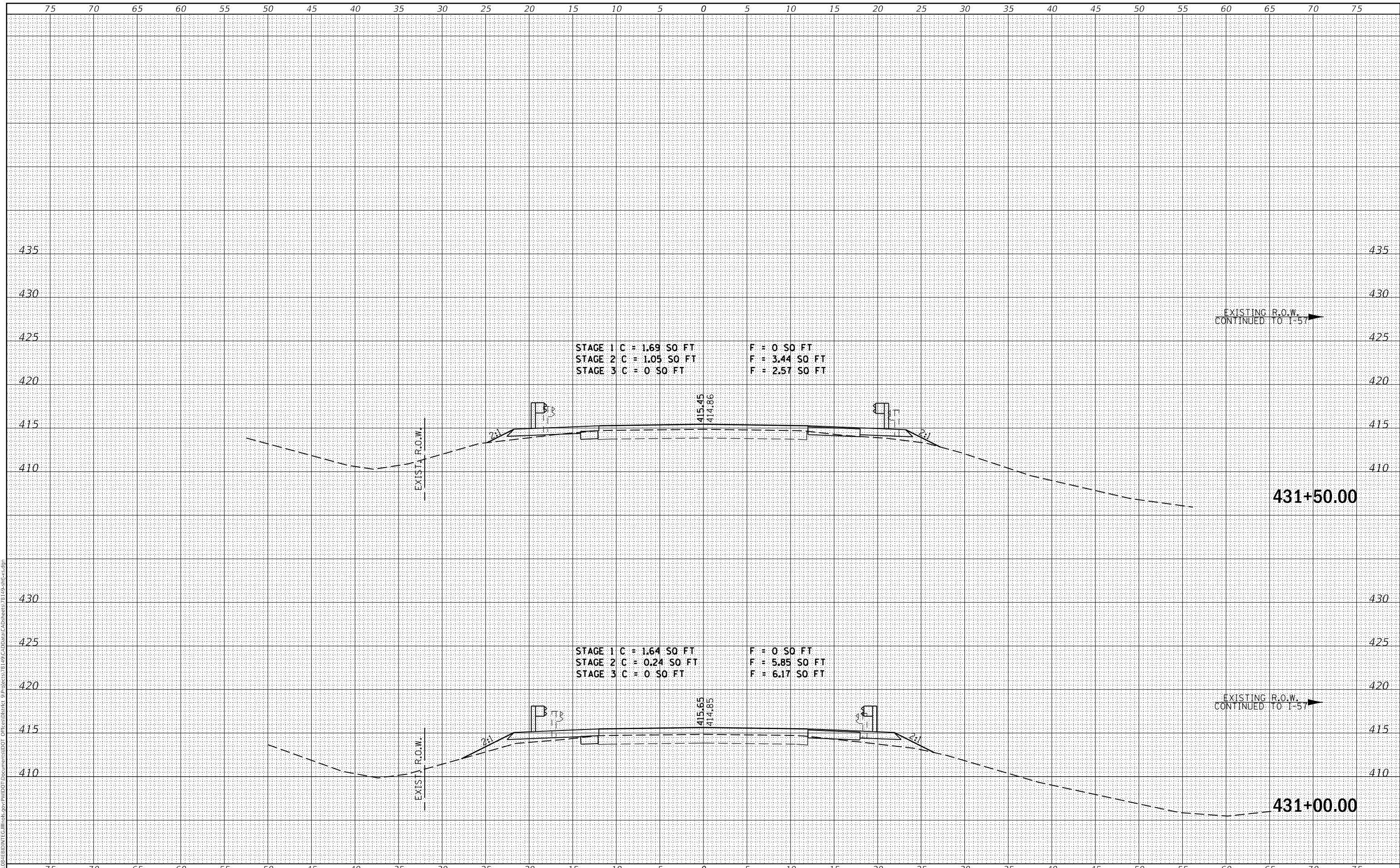
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	56
				CONTRACT NO. 78149
		ILLINOIS	FED. AID PROJECT	

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

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

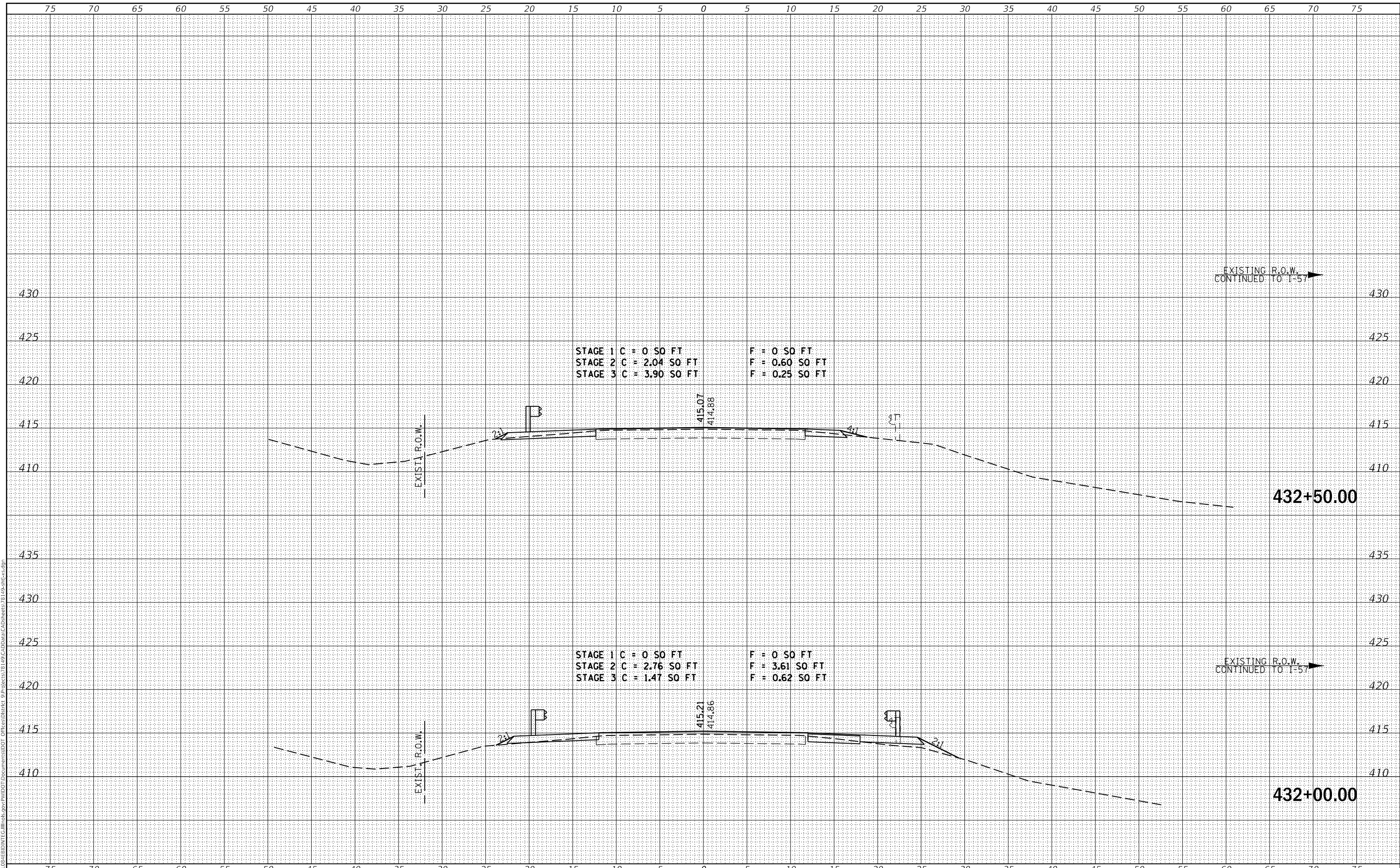
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	57
				CONTRACT NO. 78149
		ILLINOIS	FED. AID PROJECT	

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

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

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USER NAME = pritchettll	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/14/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

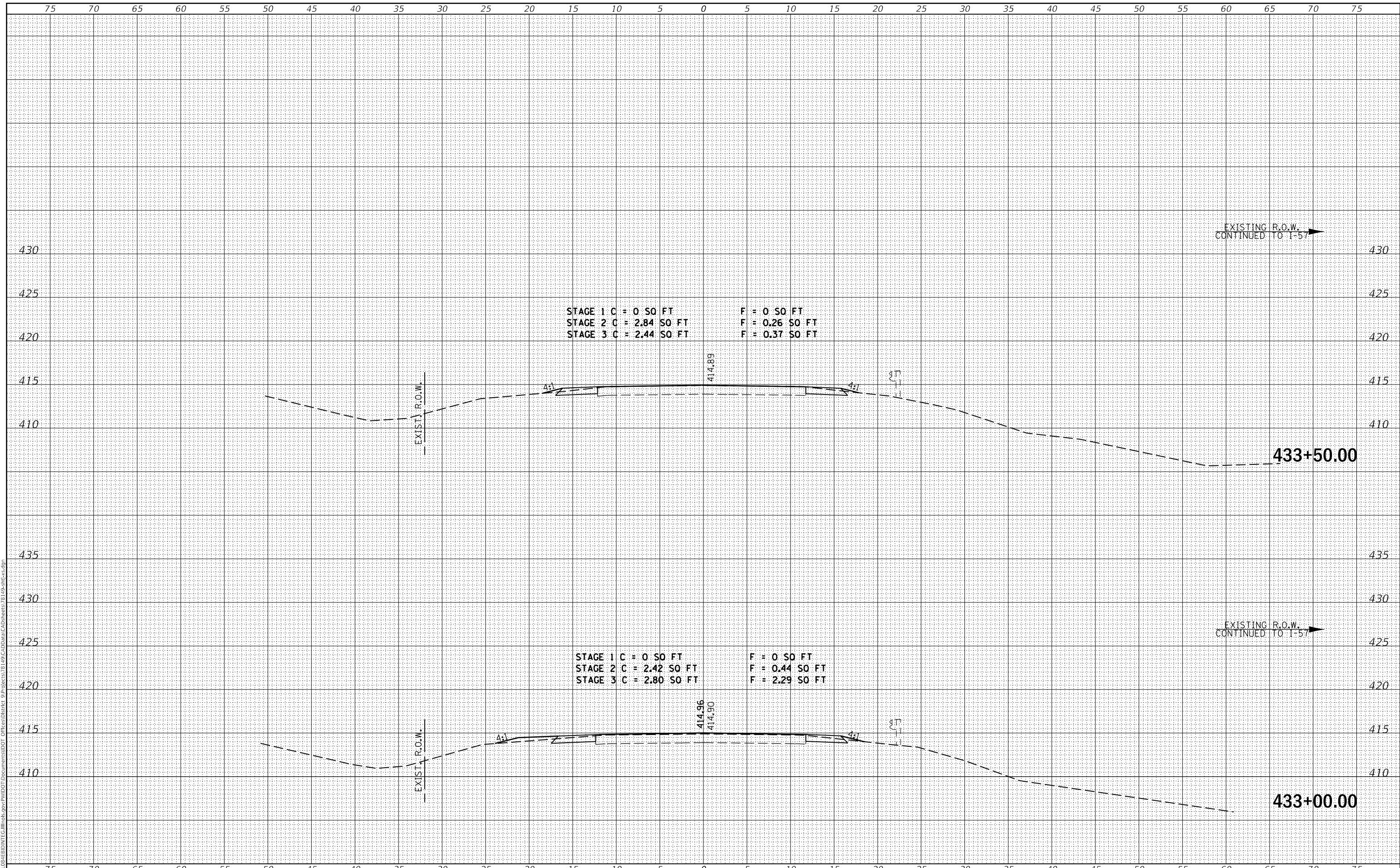
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	58
				CONTRACT NO. 78149
		ILLINOIS	FED. AID PROJECT	

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

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

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STAGE 1 C = 0 SQ FT F = 0 SQ FT
 STAGE 2 C = 2.84 SQ FT F = 0.26 SQ FT
 STAGE 3 C = 2.44 SQ FT F = 0.37 SQ FT

STAGE 1 C = 0 SQ FT F = 0 SQ FT
 STAGE 2 C = 2.42 SQ FT F = 0.44 SQ FT
 STAGE 3 C = 2.80 SQ FT F = 2.29 SQ FT

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

USER NAME = pritchettll	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/14/2017	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA. 433+00.00	TO STA. 433+50.00
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	2B-2	JEFFERSON	59	59
CONTRACT NO. 78149				
ILLINOIS FED. AID PROJECT				