09-21-2018 LETTING ITEM 003

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITIES OF OAK FOREST AND COUNTRY CLUB HILLS AND IN UNICORPORATED COOK COUNTY

TRAFFIC DATA:	ADT (2015)	ADT (2035)	DESIGN SPEED	POSTED SPEED
FAI 57 1-57	95,400	141,192	55 MPH	55 MPH
167TH ST	17,300	25,604	50 MPH	45 MPH

DESIGN DESIGNATION:

I57	15,531 (35) INTERSTATE - CLASS I TRUCK ROUTE
167TH ST	2,816 (35) OTHER ARTERIAL (URBAN)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

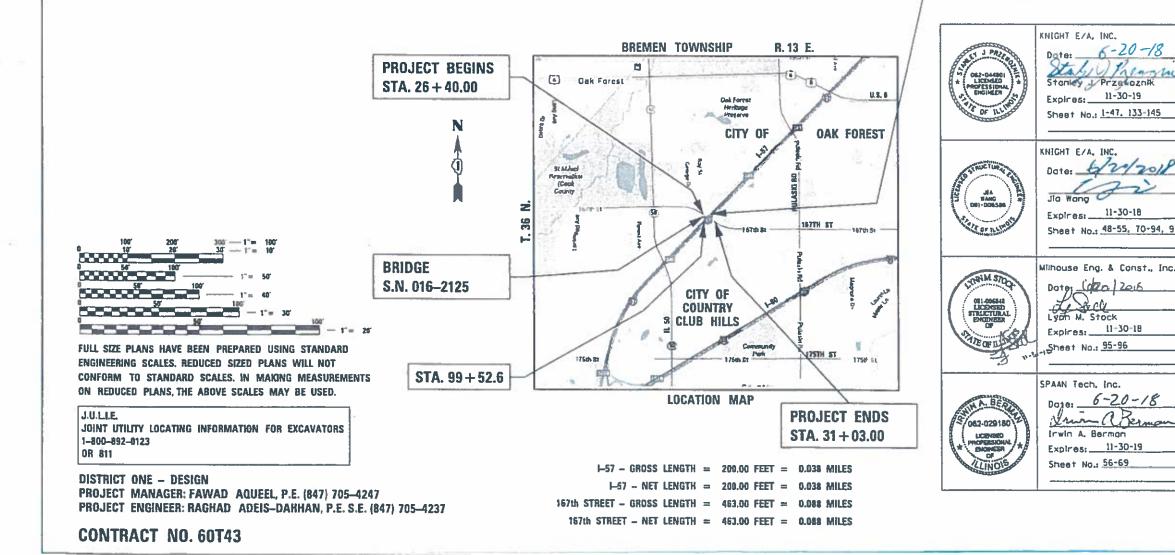
PROPOSED HIGHWAY PLANS

F.A.I. RTE. 57 AT 167TH ST STRUCTURE NO. 016-2125 SECTION: 1011.3-BR PROJECT: NHPP-3QW9(569) BRIDGE REHABILITATION COOK COUNTY

COOK COONT

C-91-355-12

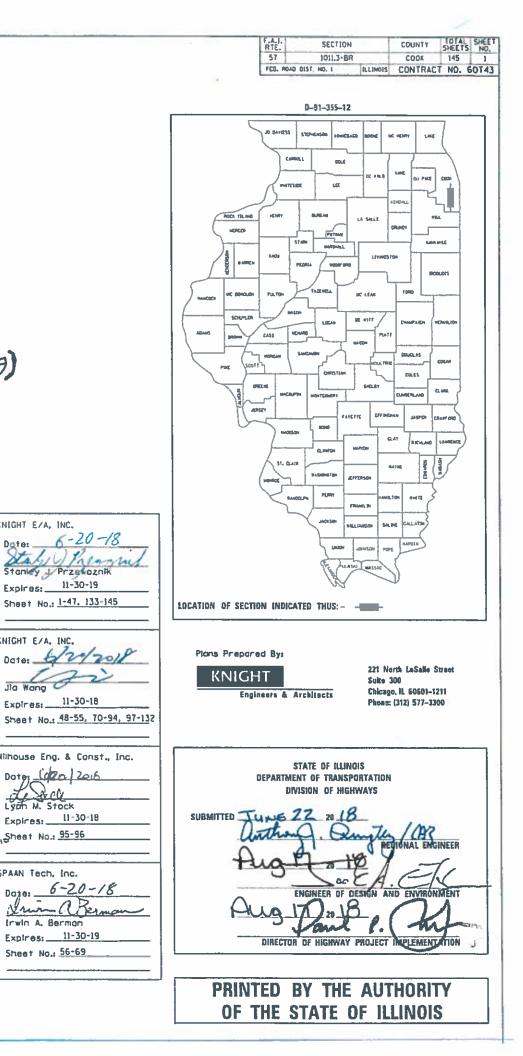
STA. 101 + 52.6



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	INDEX OF SHEETS	LIST OF STA	ATE STANDARDS
1	COVER SHEET	STANDARD NO.	DESCRIPTION
2	INDEX OF SHEETS AND STATE STANDARDS	000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND F
3	GENERAL NOTES	001001-02	AREAS OF REINFORCEMENT BARS
4 - 12	SUMMARY OF QUANTITIES	001006	DECIMAL OF AN INCH AND OF A FOOT
13		420001-09	PAVEMENT JOINTS
	EXISTING & PROPOSED TYPICAL SECTIONS	420106-06	36' (10.8 m) JOINTED P.C.C. PAVEMENT
14	SCHEDULE OF QUANTITIES	420111-04	P.C.C. PAVEMENT ROUNDOUTS
15	ALIGNMENT, TIES & BENCHMARKS	420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE AP
16	EXISTING CONDITIONS AND REMOVAL PLAN	421001-03	BAR REINFORCEMENT FOR CRC PAVEMENT
17	PROPOSED PLAN AND PROFILE	482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RE
18 - 19	ROADWAY DETAILS	483001-05	PCC SHOULDER
20 - 21	MAINTENANCE OF TRAFFIC GENERAL NOTES, DETOUR GENERAL NOTES AND STAGING NOTES	515001-03	NAME PLATE FOR BRIDGES
22	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	542301-03	PRECAST REINFORCED CONCRETE FLARED EN
23 - 25	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE I	601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
26 - 28	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE II	602001-02	CATCH BASIN, TYPE A
29	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE I - I-57 AUXILIARY LANES AND RANP CLOSURE	602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB
30	SUGGESTED TRAFFIC CONTROL AND PROTECTION - STAGE II - 1-57 AUXILIARY LANES AND RAMP CLOSURE	602701-02	MANHOLE STEPS
31	MAINTENANCE OF TRAFFIC SPECIAL GUIDE SIGN DETAILS	604001-04	FRAME AND LIDS, TYPE 1
32 - 35	DETOUR PLANS	606001-07	CONCRETE CURB TYPE B AND COMBINATION
36 - 42	DETOUR GUIDE SIGN PANEL DETAILS	606301-04	P.C. CONCRETE ISLANDS AND MEDIANS
43	PROPOSED DRAINAGE & UTILITY PLAN	610001-08	SHOULDER INLET WITH CURB
44	PAVEMENT MARKING AND SIGNING PLAN	630001-12	STEEL PLATE BEAM GUARD RAIL
15	LANDSCAPING PLAN	630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL)
6 - 47	SIGNING DETAILS	631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
8 - 55	BRIDGE MOUNT SIGN STRUCTURES	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M
6 - 69	PROPOSED LIGHTING PLANS - 167TH ST OVER I-57	701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THA
0 - 112	BRIDGE PLANS - 167TH ST OVER I-57 - SN 016-2125	701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXP
13 - 132	EXISTING BRIDGE PLANS - 167TH ST OVER I-57 - SN 016-2125	701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
33	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL. (BD-34)		
34	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)	701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE O
35	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)	701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT
36	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT
37	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FR
38 - 139	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (TC-12)	701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
40	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 21
41	SHORT TERM PAVEMENT MARKINGS LETTERS AND SYMBOLS (TC-16)	701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH
142	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)	701701-10	URBAN LANE CLOSURE, MUTLILANE INTERSE
143	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)	701901-07	TRAFFIC CONTROL DEVICES
144	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)	704001-08	TEMPORARY CONCRETE BARRIER
145	ARTERIAL ROAD INFORMATION SIGN (TC-22)	720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
		725001-01	OBJECT AND TERMINAL MARKERS
		780001-05	TYPICAL PAVEMENT MARKINGS
		781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE
		782006	GUARDRAIL AND BARRIER WALL REFLECTOR N
		812001	RACEWAY EMBEDDED IN STRUCTURE

812001 RACEWAY EMBEDDED IN STRUCTURE 836001-03 LIGHT POLE FOUNDATION

DESIGNED - SJP REVISED -INDEX OF SHEETS AND S DRAWN - SJP STATE OF ILLINOIS PLOT DATE = 6/19/20'8 KNIGHT REVISED -167TH ST OVER DEPARTMENT OF TRANSPORTATION PLOT SCALE=100.0000 '/ in. CHECKED - MM REVISED Engineers & Architects DATE - JUNE 25, 2018 REVISED -SCALE: NONE SHEET NO. 1 OF 1 SHEETS

ND PATTERNS

APPROACH SLAB RESURFACING OR WIDENING AND RESURFACING PROJECTS

END SECTION AINS

AB TOP

ON CONCRETE CURB AND GUTTER

L) GUARDRAIL TERMINALS

M) TO 24" (600mm) FROM PAVEMENT EDGE THAN 15' (4.5 M) AWAY EXPRESSWAY

E OR EXIT RAMP, FOR SPEEDS > 45MPH NT OR MOVING OPERATION, FOR SPEEDS > 45 MPH NT OR MOVING OPERATION, FOR SPEEDS < 40 MPH , FREEWAY/EXPRESSWAY IAY 2W WITH NON TRAVERSABLE MEDIAN ITH MOUNTABLE MEDIAN

SECTION

IVE PAVEMENT MARKERS OR MOUNTING DETAILS

	ATE STA		F.A.I. RTE.	SECT	r ION	COUNTY	TOTAL	SHEET NO.
ER 1–57			57	1011.3	3-BR	COOK	145	2
						CONTRACT	NO. 6	OT43
S	STA.	TO STA.	FED. RO	DAD DIST. NO. 1	ILLINOIS FED. A	ID PROJECT		

GENERAL NOTES

- 1. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 2. FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-BOO-B92-0123 OR B11 TO HAVE THE LOCATION OF EXISTING UTILITIES MARKED.
- 3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- 4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 5. POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
- 6. WHERE ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 7. 10 FT. (3 M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 8. SAW CUTTING PRIOR TO THE REMOVAL OF ANY ITEMS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- 9. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 10. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.
- 12. IN ACCORDANCE WITH SECTION 550 OF THE STANDARD SPECIFICATIONS. THE CONNECTING OF EXISTING DRAIN TILES, PIPE CULVERTS, OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS INVOLVED.

- 13. LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FROM BEST AVAILABLE RECORD INFORMATION AND MUST BE FIELD VERIFIED THE UNIT PRICE.
- 14. THE CONTRACTOR SHALL PROTECT EXISTING AND NEW UTILITIES AND SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY IN ORDER TO BE PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.
- ARE NOT MOVED BY TRAFFIC.
- AT (847) 705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 17. THE ENGINEER SHALL CONTACT MS. PATRICE HARRIS, 1007'S AREA TRAFFIC FIELD ENGINEER FOR COOK COUNTY, VIA E-MAIL AT PAVEMENT MARKINGS.
- CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- HOWEVER. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID FOR THE WORK.
- TO THE CONTRACTOR.

T SCALE = 108.0000 1/ in.	Engineers & Architects	CHECKED - MM DATE - JUNE 25, 2018	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NONE	167TH ST OVER I
T DATE +6/19/2018	KNIGHT	DESIGNED - SJP DRAWN - SJP	REVISED -	STATE OF ILLINOIS		GENERAL NOTE

BY THE CONTRACTOR. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON

PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT

15. BARRICADES: TYPE I. TYPE II AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THAT THEY

16. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AND EXPRESSWAY TRAFFIC CONTROL SUPERVISOR

PATRICE.HARRISCILLINOIS.GOV AND, OR AT (708)597-9800, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT

18. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB. GUTTER, COMBINATION CURB AND GUTTER, MEDIAN AND

19. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK.

20. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED. THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE

10	TES		F.A. RTE			SEC	TION			COUNTY		TOTAL	
FF	-57		57			1011.	3-8R			COOK		145	3
						_	-		Т	CONTRAC	CT	NO. 0	60T43
S	STA.	TO STA.	FED.	ROAD	DIST.	NO. 1	ILLINOIS	FEO.	ALD	PROJECT			

	SUM	MARY OF QUANTITIES				TION CODE		
,				URBAN	0013 ROADWAY 90% FED	0021 LIGHTING 90% FED		
CODE NO.	<u> </u>	ITEM	UNIT	TOTAL QUANTITY		10% STATE		
20100110	TREE REMOVAL (6 TO 15 UNITS DIA	AMETER)	UNIT	72	72			
20100210	TREE REMOVAL (OVER 15 UNITS DIA	AMETER)	UNIT	16	16			
20200100	EARTH EXCAVATION		CU YD	480	480			
20201200	REMOVAL AND DISPOSAL OF UNSUITA	ABLE MATERIAL	CU YD	20	20			
20800150	TRENCH BACKFILL		CU YD	160	160			
21001000	GEOTECHNICAL FABRIC FOR GROUND) STARII 174TION	SQ YD	60	60			
21101615	TOPSOIL FURNISH AND PLACE, 4"		SQ YD	2, 224	2,224			
25000210	SEEDING, CLASS 2A		ACRE	0.5	0.5			
25100635	HEAVY DUTY EROSION CONTROL BLAN	NKET	SQ YD	2, 224	2, 224			
25100900	TURF REINFORCEMENT MAT		SQ YD	16	16			
28000510	INLET FILTERS		EACH	6	6			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	[CU YD	20	20			
30300112	AGGREGATE SUBGRADE IMPROVEMENT	í 12"	SQ YD	742	742			
31101200	SUBBASE GRANULAR MATERIAL, TYPE	E B 4''	SQ YD	422	422			
42000080	PAVEMENT CONNECTOR (PCC) FOR BR	RIDGE APPROACH SLAB	SQ YD	441	441			
SPECIALTY	L							
ESIGNED - SJP RAWN - SJP	REVISED -	STATE OF ILLINOIS)F QUANTITIES OVER 1–57	 F.A.I. SECTI RTE. SECTI 57 1011.3-	UNTY COOK

KNIGHT Engineers & Arct

		SUMM	ARY OF QUANTITIES				TION CODE			
					URBAN	0013 ROADWAY 90% FED	0021 LIGHTING 90% FED			
CODE NO.			ITEM	UNIT	TOTAL QUANTITY	10% STATE				
42000501	PORTLAND	CEMENT CONCRETE PAVEME	ENT 10" (JOINTED)	SQ YD	241	241				
42001300	PROTECTIV			SQ YD	1,846	1,846				
42001300	FROTECTI			3010	1,040	1,040				
44000100	PAVEMENT	REMOVAL		SQ YD	1,456	1, 456				
44000300	CURB REMO	DVAL		FOOT	186	186				
44003100	MEDIAN RE	EMOVAL		SQ FT	5,086	5,086				
44004250	PAVED SHO	DULDER REMOVAL		SQ YD	638	638				
48101620	AGGREGATE	E SHOULDERS, TYPE B 10	и и	SQ YD	236	236				
48300500		CEMENT CONCRETE SHOULD	NERS 10"	SQ YD	412	412				
10300300	TONTEAND				-12	-12				
50101500	REMOVAL C	OF EXISTING SUPERSTRUCT	URES	EACH	2	2				
50102400	CONCRETE	REMOVAL		CU YD	71.5	71.5				
50104720	REMOVAL C	DF EXISTING CONCRETE DE	СК	EACH	1	1				
50157300	PROTECTI	VE SHIELD		SQ YD	2,449	2, 449				
50200100	STRUCTURE	E EXCAVATION		CU YD	77	77				
50300225	CONCRETE	STRUCTURES		CU YD	111.4	111.4				
50300255	CONCRETE	SUPERSTRUCTURE		CU YD	986.2	986.2				
SPECIALTY								 I F.A.T		
DESIGNED - SJP DRAWN - SJP	İ	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				F QUANTITIES OVER 1–57	F.A.I. RTE. 57	SECTION 1011.3-BR	COUN COO CONT

KNIGHT

	SIN	IMARY OF QUANTITIES			CONSTRUC	TION CODE	
L	ייוט כ ד			URBAN	0013 ROADWAY 90% FED	0021 LIGHTING 90% FED	
CODE NO.		ITEM	UNIT	TOTAL QUANTITY		10% STATE	
50300260	BRIDGE DECK GROOVING		SQ YD	3, 531	3, 531		
50300300	PROTECTIVE COAT		SQ YD	4,141	4,141		
50301350	CONCRETE SUPERSTRUCTURE (APPR	<pre>{OACH SLAB)</pre>	CU YD	271.5	271.5		
50400805	FURNISHING AND ERECTING PRECF	AST PRESTRESSED CONCRETE I-BEAMS, 36 IN.	FOOT	1,260	1,260		
50800205	REINFORCEMENT BARS, EPOXY COAT	 TED	POUND	335, 470	335, 470		
50800515	BAR SPLICERS		EACH	1,506	1,506		
51500100	NAME PLATES		EACH	1	1		
52000110	PREFORMED JOINT STRIP SEAL		FOOT	183	183		
52100010	ELASTOMERIC BEARING ASSEMBLY,	TYPE I	EACH	24	24		
52100520	ANCHOR BOLTS, 1"		EACH	48	48		
52200010	TEMPORARY SHEET PILING		SQ FT	129	129		
54213657	PRECAST REINFORCED CONCRETE F	LARED END SECTIONS 12"	EACH	4	4		
55100500	STORM SEWER REMOVAL 12"		FOOT	169	169		
55100700	STORM SEWER REMOVAL 15"		FOOT	312	312		
58700300	CONCRETE SEALER		SQ FT	1, 304	1,304		
SPECIALTY							
SPECIALTY DESIGNED - SJP DRAWN - SJP	ITEM REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SUMMARY	DF QUANTITIES OVER 1–57	 CTION COUI

PLOT DATE =6/21/2018 PLOT SCALE = 100.0000 '/ 10.



							·	 		
						CONSTRUC	TION CODE			
		SI	SUMMARY OF QUANTITIES		URBAN	0013 ROADWAY	0021 LIGHTING 90% FED			
	CODE NO.		ITEM	UNII	TOTAL QUANTITY		90% FED 10% STATE			
	59000200	EPOXY CRACK INJECTION		FOOT	108	108				
	59100100	GEOCOMPOSITE WALL DRAIN		SQ YI	42	42				
	60100945	PIPE DRAINS 12"		FOOT	294	294				
		· · · · · · · · · · · · · · · · · · ·								
	60200205	CATCH BASINS, TYPE A, 4' -DIA 	AMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2				
	60250200	CATCH BASINS TO BE ADJUSTED)	EACH	7	7				
	60255500	MANHOLES TO BE ADJUSTED		EACH	3	3				
	60500050	REMOVING CATCH BASINS		EACH	4	4				
	60619200	CONCRETE MEDIAN, TYPE SB-6.0	06	SQ F	4,850	4,850				
	61000050	CONCRETE THRUST BLOCKS		EACH	4	4				
	61000115	TYPE E INLET BOX, STANDARD 6	610001	EACH	4	4				
*	63000001	STEEL PLATE BEAM GUARDRAIL,	, TYPE A, 6 FOOT POSTS	FOOT	312.5	312.5				
				_						
*	63100085	TRAFFIC BARRIER TERMINAL, T	YPE 6	EACH	2	2				
*	63100167	TRAFFIC BARRIER TERMINAL, T	YPE 1 (SPECIAL) TANGENT	EACH	2	2				
	63200310	GUARDRAIL REMOVAL		FOOT	1,428	1,428				
	66201120	CONCRETE SHOULDER CURB		FOOT	222	222				
	SPECIALTY					<u> </u>				
D	DESIGNED - SJP DRAWN - SJP CHECKED - MM		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SUMMARY 0 167th St	DF QUANTITIES OVER 1–57	F.A.I. RTE. 57	SECTION 1011.3-BR	COUNTY TOT SHEE COOK 14 CONTRACT NO.

	SUMMARY OF QUANTITIES		_		TION CODE	
			URBAN	0013 ROADWAY 90% FED	0021 LICHTINC 90% FED	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	10% STATE		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
67100100	MOBILIZATION	L SUM	1	1		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	550	550		
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	126	126		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	640	640		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	213	213		
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	220	220		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	17,355	17,355		
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	313	313		
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	2,759	2,759		
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	565	565		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1, 737. 5	1,737.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275		
SPECIALTY				<u> </u>		
DESIGNED - SJP DRAWN - SJP	P REVISED -			SUMMARY O 167th St		INTY SH

	-				CONSTRUC	TION CODE
	SUM	MARY OF QUANTITIES		URBAN	0013 ROADWAY	0021 LIGHTING
CODE NO.		ITEM	UNIT	TOTAL QUANTITY	90% FED	LIGHTING 90% FED 10% STATE
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
70600332	IMPACT ATTENUATORS, RELOCATE (F	FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
¢ 72000300	SIGN PANEL - TYPE 3		SQ FT	434	4 3 4	
¢ 72501000	TERMINAL MARKER - DIRECT APPLIE	ED	EACH	2	2	
73304000	OVERHEAD SIGN STRUCTURE - BRIDO	SE MOUNTED	FOOT	56	56	
73602000	REMOVE OVERHEAD SIGN STRUCTURE	- BRIDGE MOUNTED	EACH	3	3	
€ 78000500	THERMOPLASTIC PAVEMENT MARKING	- LINE 8"	FOOT	1,558	1,558	
¢ 78008210	POLYUREA PAVEMENT MARKING TYPE	I - LINE 4"	FOOT	5, 400	5, 400	
¢ 78008240	POLYUREA PAVEMENT MARKING TYPE	I - LINE 8"	FOOT	3, 570	3, 570	
¢ 78008250	POLYUREA PAVEMENT MARKING TYPE	I - LINE 12"	FOOT	331	331	
¢ 78100100	RAISED REFLECTIVE PAVEMENT MAR	KER	EACH	52	52	
¢ 78200005	GUARDRAIL REFLECTORS, TYPE A		EACH	8	8	
€ 78200011	BARRIER WALL REFLECTORS, TYPE C		EACH	24	24	
* 81100320	CONDUIT ATTACHED TO STRUCTURE,	1" DIA., PVC COATED GALVANIZED STEEL	FOOT	500		500
ESPECIALTY		STATE OF ILLINOIS			SUMMARY 0	

		SUMM	MARY OF QUANTITIES		URBAN	0013 ROADWAY	002 LIGH 90%
	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	-
	£ 81200230		2" DIA DUC	FOOT	360		
7	81200230	CONDUIT EMBEDDED IN STRUCTURE,	2" DIA., PVC	FOUT	360		
*	€ 81300220	JUNCTION BOX, STAINLESS STEEL, 4	ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	14		
*	£ 81300530	JUNCTION BOX, STAINLESS STEEL, 4	ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	6		
<pre>* 81300550 JUNCTION BOX, STAINLESS ST</pre>		JUNCTION BOX, STAINLESS STEEL, 4	ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2		
*	¢ 81300810	JUNCTION BOX, STAINLESS STEEL, 4	ATTACHED TO STRUCTURE, 18" X 12" X 8"	EACH	2		
*	€ 81702110	ELECTRIC CABLE IN CONDUIT, 600V	(XLP-TYPE USE) 1/C NO. 10	FOOT	2, 300		2,
4							
*	¢ 81702130	ELECTRIC CABLE IN CONDUIT, 600V	(XLP-TYPE USE) 1/C NO. 6	FOOT	255		2
*	e 81702140	ELECTRIC CABLE IN CONDUIT, 600V	(XLP-TYPE USE) 1/C NO. 4	FOOT	510		5
*	£ 82102200	LUMINAIRE, SODIUM VAPOR, HORIZO	NTAL MOUNT, 200 WATT	EACH	2		
÷	₭ 83007600	LIGHT POLE, ALUMINUM, 35 FT. M. H.	., 15 FT. MAST ARM	EACH	2		
;	₭ X0326331	CLEANING AND PAINTING BEARINGS		EACH	12	12	
*	€ X0327303	REMOVAL OF EXISTING SIGN LIGHTI	NG UNIT WITH NO SALVAGE	EACH	5		
*	x0327577	PROTECT AND MAINTAIN EXISTING L	JNDERPASS LUMINAIRE	L SUM	1		
	X0327773	ACCESS DOOR		EACH	2	2	
	X0327980	PAVEMENT MARKING REMOVAL - WATE	R BLASTING	SQ FT	2,819	2,819	
*	SPECIALTY	ITEM					
	DESIGNED - SJP	REVISED -				SUMMARY O	
	DRAWN - SJP	REVISED -	STATE OF ILLINOIS			167TH ST	

Engineers & Architects

REVISED -

REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

167TH ST OVE SCALE: NONE SHEET NO. 7 OF 9 SHEETS STA.

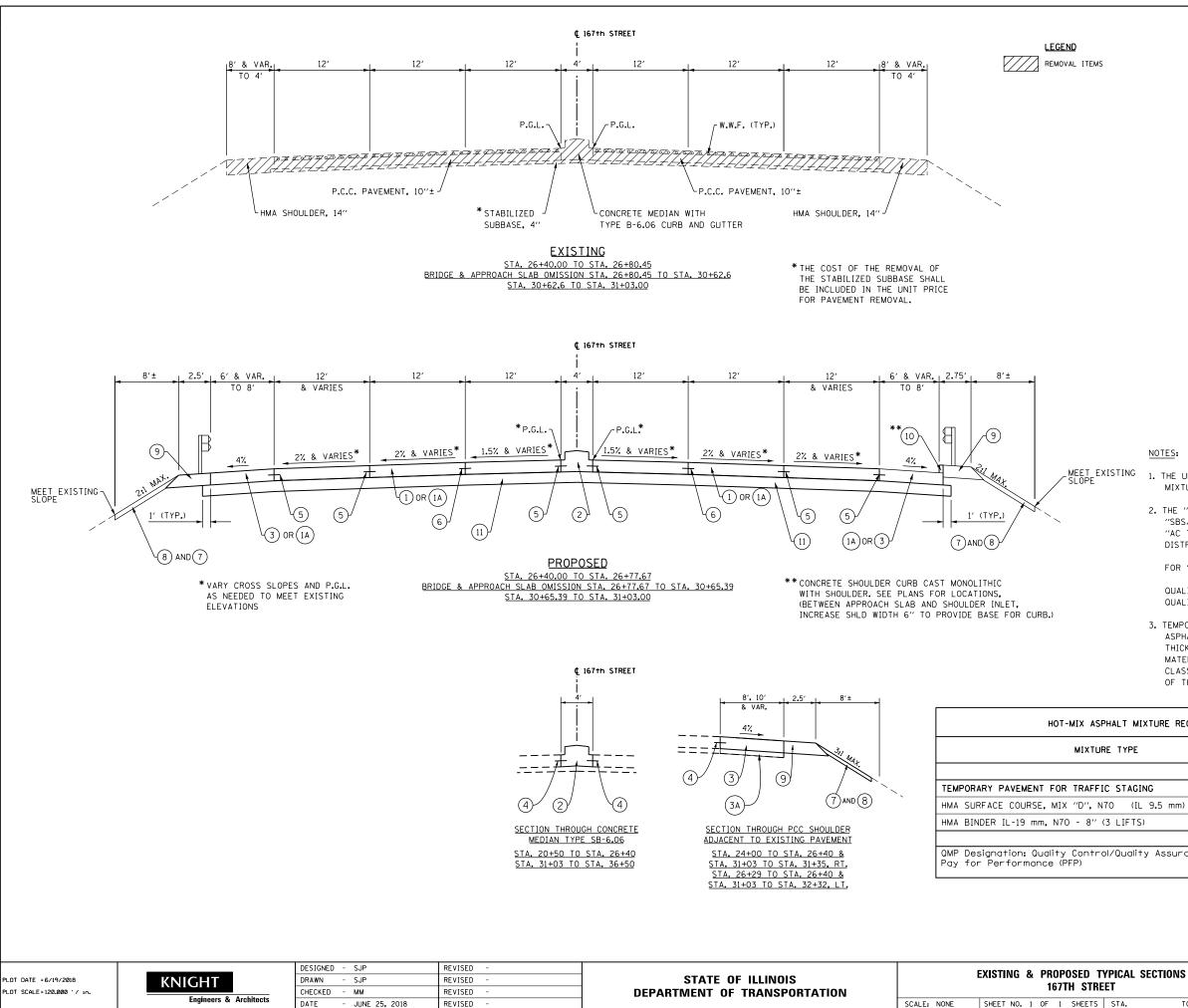
ON CODE							
0021							
0021 IGHTING 0% FED							
)% STATE							
360							
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2,300							
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		F.A.I.	SECTIO		COUNTY		HEET
DUANTITIES //ER 1–57		F.A.I. RTE. 57	SECTIO		COUNTY		10
DUANTITIES TER I-57 S STA.	TO STA.	57		2	COOK CONTRACT	145	10

		SLIMA	MARY OF QUANTITIES				TION CODE			
					URBAN	0013 ROADWAY 90% FED	0021 LIGHTING 90% FED			
Ľ	CODE NO.		ITEM	UNIT	TOTAL QUANTITY		10% STATE			
×	X5860110	GRANULAR BACKFILL FOR STRUCTURE		CU YD	64	64				
×	X7010216	TRAFFIC CONTROL AND PROTECTION,	(SPECIAL)	L SUM	1	1				
×	X7011015	TRAFFIC CONTROL AND PROTECTION	(EXPRESSWAYS)	L SUM	1	1				
×	x7015005	CHANGEABLE MESSAGE SIGN		CAL DAY	960	960				
×	x7030005	TEMPORARY PAVEMENT MARKING REMO	JVAL	SQ FT	8,566	8,566				
×	X7040125	PINNING TEMPORARY CONCRETE BAR	RIER	EACH	122	122				
¥ X	x7200052	REMOVE, STORE AND RE-ERECT SIGN	PANEL	SQ FT	276	276				
€ X	X8110458	CONDUIT ATTACHED TO STRUCTURE,	2" DIA., STAINLESS STEEL	FOOT	50		50			
* ×	X8420111	REMOVAL OF UNDERPASS LIGHTING L	JNIT, NO SALVAGE	EACH	18		18			
Z	Z0001899	JACK AND REMOVE EXISTING BEARIN	IGS	EACH	24	24				
z	Z0004552	APPROACH SLAB REMOVAL		SQ YD	425	425				
* z	Z0007112	CONTAINMENT AND DISPOSAL OF LEA	AD PAINT CLEANING RESIDUES	L SUM	1	1				
Z	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	175	175				
z	Z0013798	CONSTRUCTION LAYOUT		L SUM	1	1				
z	Z0018500	DRAINAGE STRUCTURES TO BE CLEAN	 IED	EACH	7	7				
DESI	SPECIALTY SIGNED - SJP AWN - SJP	REVISED -	STATE OF ILLINOIS			SUMMARY (167TH ST)F QUANTITIES	F.A.J RTE 57	I. SECTION	COUNT

Ā

REV. 7/30/18

						CONSTRUC	TION CODE	
		SUM	MARY OF QUANTITIES		URBAN	0013 ROADWAY 90% FED	0021 LIGHTING 90% FED	
	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE		
	Z0024475	TUBULAR MARKER		EACH	78	78		
	Z0030850	TEMPORARY INFORMATION SIGNING		SQ FT	1,309	1,309		
:	* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBL	Y	EACH	2		2	
:	¥ Z0033028	MAINTENANCE OF LIGHTING SYSTEM		CAL MO	9		9	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURE	S 4"	FOOT	198	198		
	Z0062456	TEMPORARY PAVEMENT		SQ YD	799	799		
* 1	Z0076600	TRAINEES		HOURS	500	500		
	X0327991	REMOVAL OF EXISTING PROTECTIVE	SUIELD	SQ YD	2,449	2,449		
			311120	34 10	2, J	2, J		
:	₭ X1400344	LUMINAIRE, UNDERPASS, LED, TYPE	Α	EACH	14		14	
* *	Z0076604	TRAINEES TRAINING PROGRAM GRADUAT	E	HOURS	500	500		
		ITEM ** = 0042		l				
GHT Engineers & Architects	DESIGNED - SJP DRAWN - SJP CHECKED - MM DATE - JUNE	REVISED - REVISED - REVISED - 25, 2018 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATI	DN SCALE:		SUMMARY O 167TH ST	F QUANTITIES OVER 1–57	TO STA. FLA. I. SECTION COUNTY TOTAL RTE. SECTION COUNTY SHEET 57 1011.3-BR COOK 145 CONTRACT NO. 1 ILLINOIS FED. AID PROJECT



PROPOSED LEGEND

- (1) P.C.C. PAVEMENT, 10" (JOINTED)
- (1A) PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLABS
- (2) CONCRETE MEDIAN, TYPE SB-6.06
- (3) P.C.C. SHOULDERS, 10"
- (3A) SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- NO. 6 24" LONG, EPOXY-COATED TIE-BARS
 24" c-c. DRILLED AND GROUTED (COST WILL BE INCLUDED IN CONCRETE MEDIAN OR PCC_SHOULDERS)
- (5) LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 24" LONG EPOXY-COATED TIE-BARS @ 24" c-c. DRILLED & GROUTED (COST WILL BE INCLUDED IN P.C.C. PAVEMENT)
- SAWED LONGITUDINAL JOINT WITH NO. 6 30" LONG EPOXY-COATED TIE-BARS @ 30" c-c. (COST WILL BE INCLUDED IN P.C.C. PAVEMENT) 6)
- (7) TOPSOIL, FURNISH & PLACE, 4"
- (8) SEEDING, CLASS 2A & HEAVY DUTY EROSION CONTROL BLANKET
- (9) AGGREGATE SHOULDER, TYPE B, 10"
- (1) CONCRETE SHOULDER CURB STD 610001 (SEE PLANS FOR LOCATIONS)
- (11) AGGREGATE SUBGRADE IMPROVEMENT 12"

NOTES:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 - 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "USE OF RECYCLED MATERIALS" SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE MIXTURE.

3. TEMPORARY PAVEMENT: THE CONTRACTOR HAS THE OPTION OF HOT MIX ASPHALT OR CONCRETE, IF THE CONTRACTOR CHOOSES CONCRETE, THE THICKNESS SHALL BE 8" P.C. CONCRETE WITH 4" SUBBASE GRANULAR MATERIAL. P.C. CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS.

SPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT		
URE TYPE	AIR VOIDS © Ndes	PROGRAM (QMP)		
FIC STAGING				
N70 (IL 9.5 mm) - 2''	4% @ 70 GYR.	QC / QA		
(3 LIFTS)	4% @ 70 GYR.	OC / QA		
rol/Quality Assurance (QC/QA); Quality	Control for P	erformance (QCP);		

TOTAL SHEET SHEETS NO. SECTION COUNTY SHEETS RTE. 57 1011.3-BR COOK 145 13 CONTRACT NO. 60T43 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TYP-1

PORTLAND	CEMENT	CONCRETE	SHOULDERS,	10''	SCHEDULE

PAY ITEM					48300500
	LOCATION		Length (FT)	Width (FT)	SQ YD
26+29.00	26+40.00	LT	11	8	10
24+00.00	26+01.00	RT	201	VAR	213
26+16.00	26+54.75	RT	39	VAR	33
30+88.31	31+20.00	LT	32	VAR	27
31+35.00	32+32.00	LT	97	8	86
31+03.00	31+51.00	RT	48	8	43
		TOTA	<u></u>		412

CONCRETE SHOULDER CURB SCHEDULE

	PAY ITEM				66201120
		LOCATION		DESCRIPTION	LENGTH (FOOT)
	26+01.00	26+70.00	RT	ON SHOULDER INLET	69
	26+40.00	26+86.00	LT	ON SHOULDER INLET	46
	30+57.67	31+03.00	RT	ON SHOULDER INLET	45
	30+73.66	31+35.00	LT	ON SHOULDER INLET	61
		222			

PAVED SHOULDER REMOVAL SCHEDULE											
PAY ITEM	PAY ITEM										
	LOCATION		Length (FT)	Width (FT)	SQ YD						
24+00) 27+00 RT		300	VAR	297						
26+29	27+14	LT	85	VAR	70						
30+28	31+51	RT	123	VAR	109						
30+43	32+32	LT	189	VAR	162						
	TOTAL										

PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) SCHEDULE									
PAY ITEM	42000501								
	LOCATION		Average Length (FT)	Average Width (FT)	Area (SQ YD)				
26+40.00	26+54.75	LT	14.75	37.30	61				
26+40.00	26+54.75	RT	14.75	36.30	59				
30+88.31	31+03.00	LT	14.69	36.00	59				
30+88.31	31+03.00	RT	14.69 37.80		62				
	TOTAL								

PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB SCHEDULE											
PAY ITEM 42000080 50800205											
LUCATION			Average Length (FT)	Average Width (FT)	Area (SQ YD)	LBS					
26+54.75	26+77.67	LT	27.00	44.50	131	3,460					
26+54.75	26+77.67	RT	19.50	43.50	90	2,670					
30+65.39	30+88.31	LT	18.00	43.00	88	2,630					
30+65.39	30+88.31	RT	27.00	43.50	133	3,530					
	TOTAL 441 12,290										

	26+54.75	26+77.67	LT	27.	.00	4	4.50	131	3,4
	26+54.75	26+77.67	RT	19.	50	4	3.50	90	2,6
	30+65.39	30+88.31	LT	18.	.00	4	3.00	88	2,6
	30+65.39	30+88.31	RT	27.	.00	4	3.50	133	3,5
	TOTAL 441								12,2
EMOVAL AND				GL	JARDRAIL	_ REM	OVAL SCH	IEDULE	
ISPOSAL OF JIT MATERIAL			P	PAY ITEM 6320				63200310	
CU YD					LOCATI	ON		Length (FT)	
	1					-		45.5	

PAY ITEM			63200310
	LOCATION		Length (FT)
22+60	27+13	RT	453
30+14	32+67	RT	265
24+99	27+30	LT	254
30+29	34+73	LT	456
	TOTAL		1,428

PAY ITEM	25100635		21101615
	HEAVY DUTY EROSION CONTROL BLANKET	EMBANKMENT	TOPSOIL FURNISH AND PLACE, 4"
LOCATION	SO YD	CU YD	SQ YD
STA 26+30 TO 2685, LT	286	21	286
STA 30+57 TO 3160, LT	688	0	688
STA 24+00 to 26+85, RT	698	25	698
STA 30+42 TO 31+04, RT	500	22	500
AT TREE REMOVALS	32		32
AT LT FOUNDATIONS	20		20
TOTAL	2,224	68	2,224

LANDSCAPING SCHEDULE

	AREA SEE PAVING PAY ITEM	DEPTH SEE TYP SECTION	EARTH EXCAVATION (FOR AGG SUBGRADE IMPROVEMENT 12'')	EMBANKMENT	REMOVAL AND DISPOSAL OF UNSUIT MATERIAI					
LOCATION	SQ YD	FT	CU YD	CU YD	CU YD					
PCC PAVEMENT, 10"	241	1.00	80							
PCC SHOULDERS, 10" (ADJACENT TO PCC PVMT)	30	1.00	9							
PCC SHOULDERS, 10" (ADJACENT TO EX PVMT)	353	0.46	52							
AGGREGATE SHOULDER, 10"	336	0.83	62							
PAVEMENT CONNECTOR(PCC) FOR BRIDGE	440	1.00	147							
APPROACH SLAB	391	1.00	130							
FILL FOR ERODED DITCHES				68						
ESTIMATE FOR AGG SUBGRADE IMPROVEMENT					20					
PLUS SHRINKAGE 15%				10						
TOTAL			480	78	20					

• EXCAVATION FOR AGGREGATE SUBGRADE IMPROVEMENT, 12"

PLOT DATE = 6/20 PLOT SCALE = 100.0

6/20/2018 100.000 '/ .n.	KNIGHT	DESIGNED DRAWN CHECKED	- SJP - SJP - MM	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SCHEDULE OF QUANTITIES 167TH ST OVER I–57
	Engineers & Architects	DATE	- JUNE 25, 2018	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.

APPROACH SLAB REMOVAL SCHEDULE

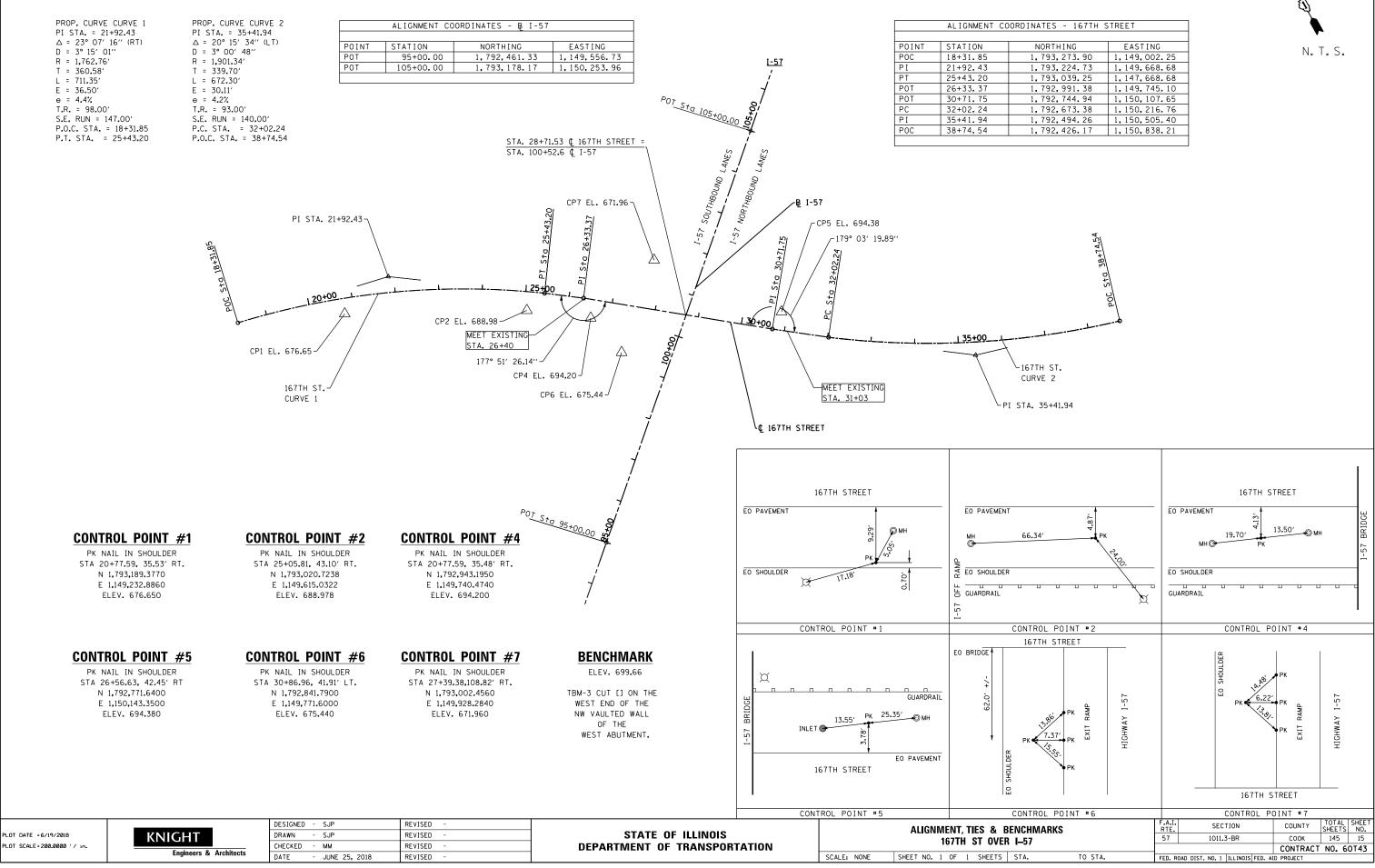
Γ

	Аг	FRUACE	SLAD REMOVAL	SCHEDULE					
PAY ITEM					Z0004552				
LOCA	TION		Average Length (FT)	Average Width (FT)	Area (SQ YD)				
26+80.45	27+07.00	RT	23.05	36.00	92				
26+80.45	24+14.00	LT	30.20	35.75	120				
30+35.90	30+62.60	RT	30.25	35.30	119				
30+36.10	30+36.10 30+62.60 LT 23.25 36.40								
	TOTAL								

PAVEMENT REMOVAL SCHEDULE											
PAY ITEM 44000100											
	Area (SQ YD)										
26+40.00	26+80.45	LT	40.45	37.00	166						
26+40.00	26+80.45	RT	40.45	36.00	162						
30+62.60	31+03.00	LT	40.40	36.00	162						
30+62.60	31+03.00	RT	40.40	37.00	167						
TEMPORARY	Y PAVEMENT				799						
		тоти	4L		1,456						

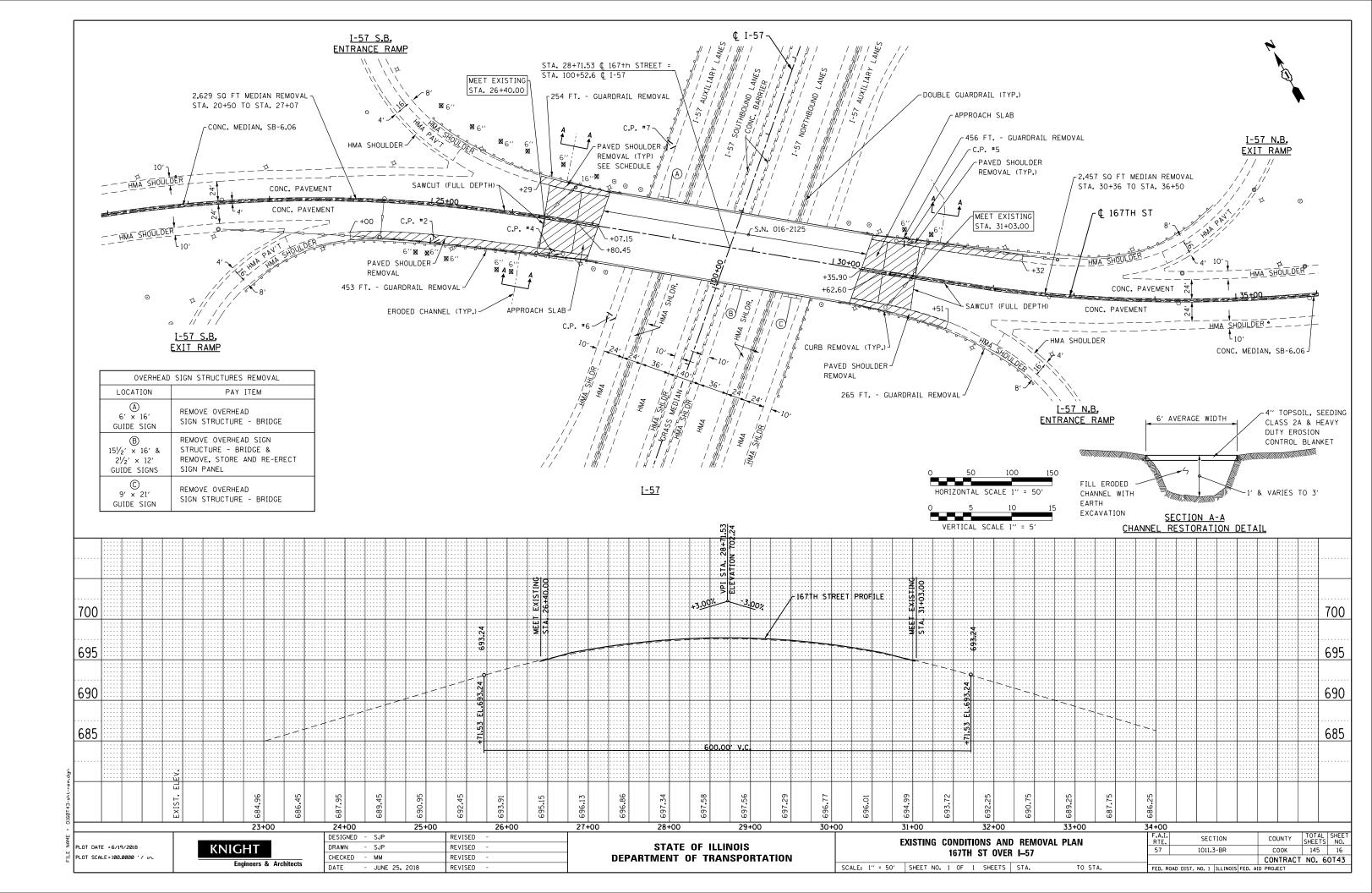
	CURB REMOVAL SCHEDULE											
PAY ITEM	PAY ITEM 44000300											
	LOCATION	DESCRIPTION	LENGTH (FOOT)									
26+62	27+12	RT	NW BRIDGE CURB	50								
26+59	27+00	RT	SW BRIDGE CURB	41								
30+44	30+83	LT	NE BRIDGE CURB	39								
30+28	30+84	RT	SE BRIDGE CURB	56								
		TOTA	L	186								

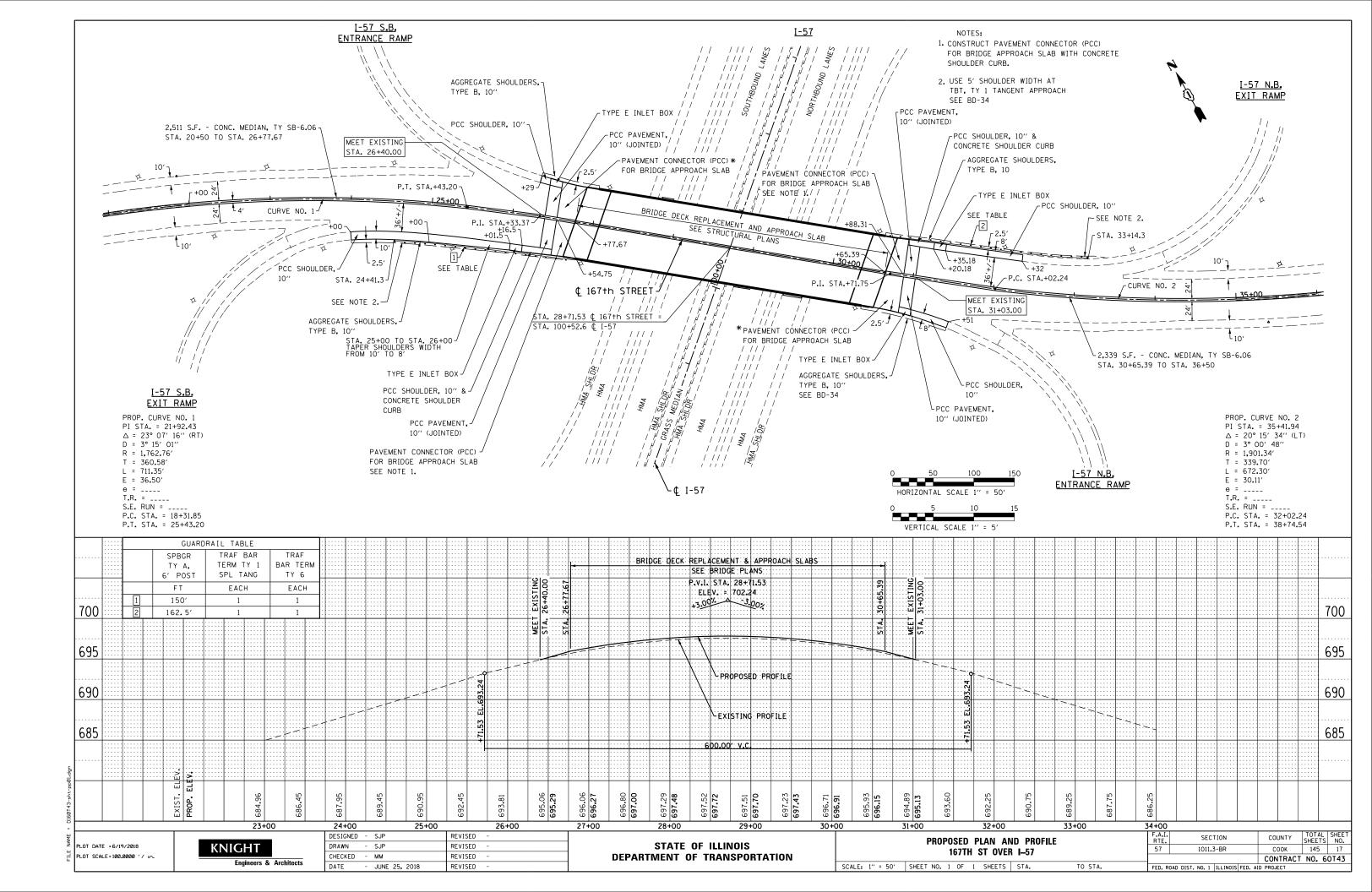
	TR	EE REMOVAL SCHEDULE		
PAY ITEM		20100110	20100210	
		TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	OFFSET	UNIT	UNIT	
24+80	60' RT	6		
25+00	60′ RT	6		
25+25	66′ RT	6		
25+85	70' RT	6		
26+00	70' RT	6		
25+00	125' LT	6		
25+40	100' LT	6		
25+80	87'LT	6		
26+10	78' LT	6		
26+55	68' LT	6		
27+00	60′ LT		16	
30+80	57'LT	6		
31+10	55′ LT	6		
TOTAL		72	16	
L	F.A. RTE		COUNTY TOTAL S	SHEE NO.
	57	1011.3-BR	СООК 145	14
TO STA.	FED	ROAD DIST. NO. 1 ILLINOIS FED.	CONTRACT NO. 60	T43

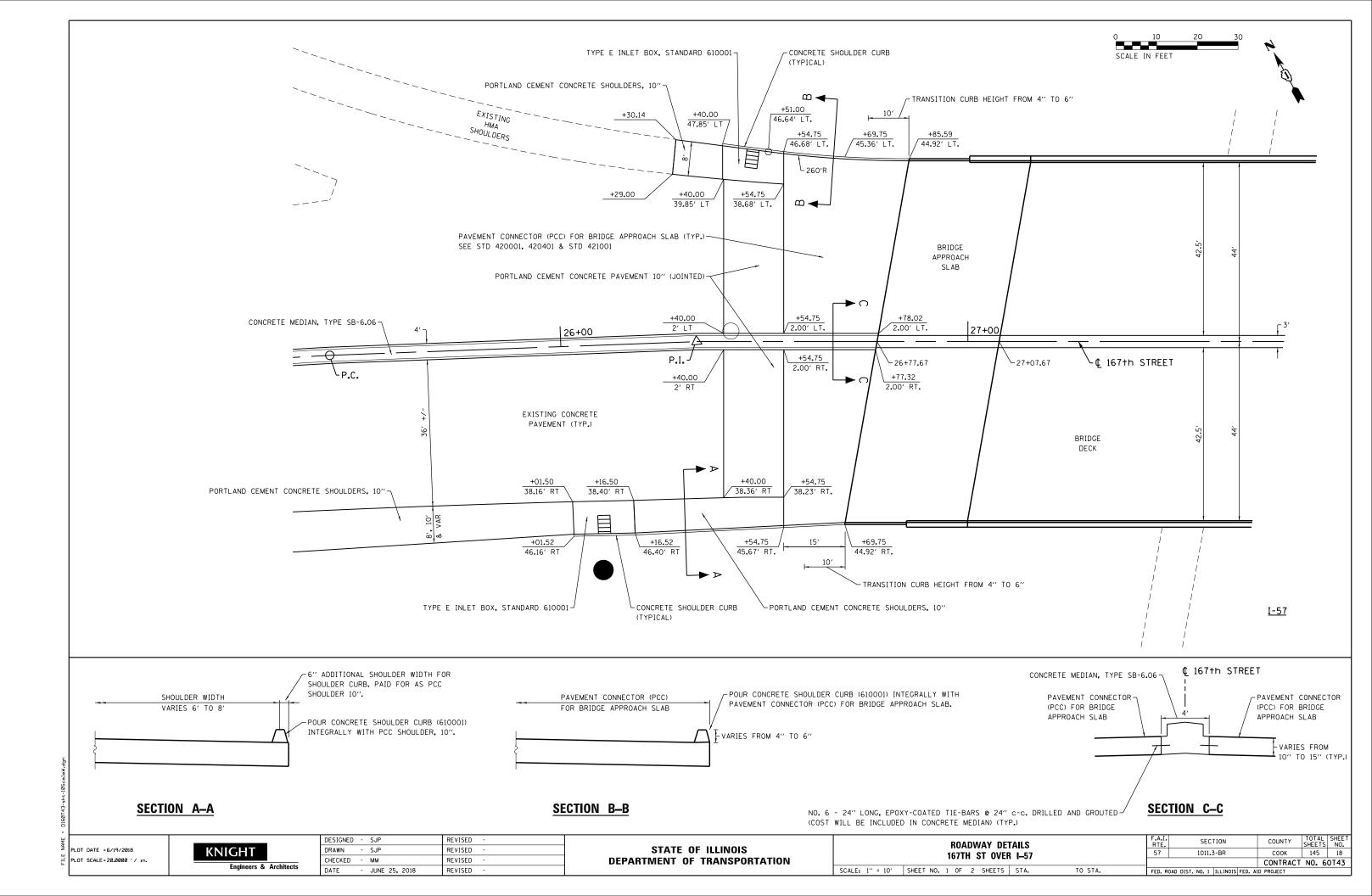


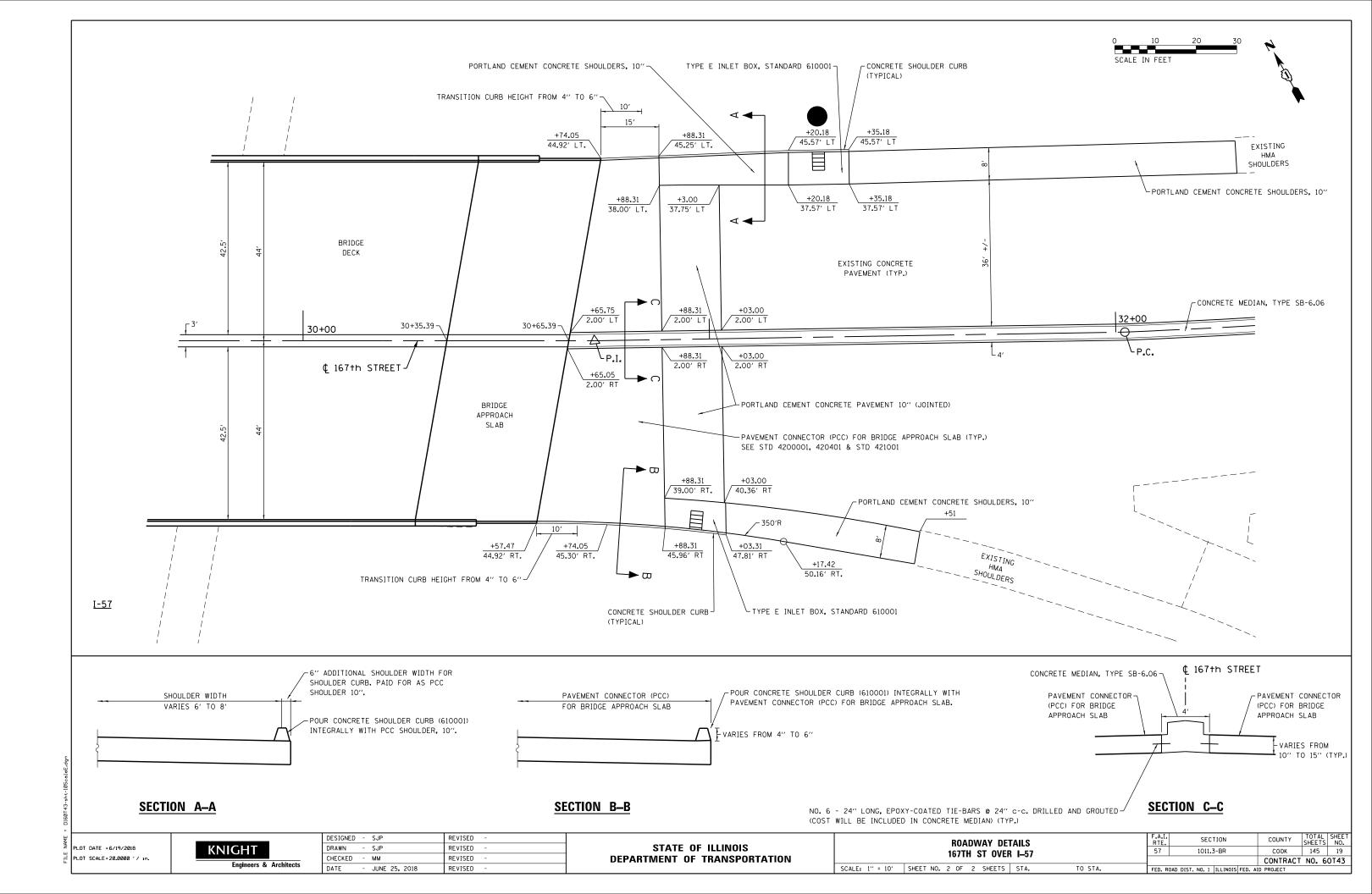
COORDINATES - 167TH S	TREET
NORTHING	EASTING
1,793,273.90	1,149,002.25
1,793,224.73	1,149,668.68
1,793,039.25	1,147,668.68
1,792,991.38	1,149,745.10
1,792,744.94	1,150,107.65
1,792,673.38	1,150,216.76
1,792,494.26	1,150,505.40
1,792,426.17	1,150,838.21











MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE D1 TRAFFIC CONTROL SUPERVISOR VIA EMAIL AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
- 2. THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE WILL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICES THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATIONS PERFORMED BY THE STATE OR LOCAL AGENCIES.
- 3. TYPE III BARRICADES SHALL BE PLACED AT BOTH ENDS OF THE CLOSED PORTION OF BRIDGE UNDER CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ENOUGH TYPE III BARRICADES TO CROSS THE ENTIRE ROADWAY AS DEPICTED ON THE PLANS.
- THROUGHOUT THE WORKZONE ALL DRUMS, VERTICAL PANELS, AND TYPE II BARRICADES SHALL BE SPACED AS FOLLOWS, EXCEPT AS SHOWN IN THE PLANS:
 © 50' CTRS ON TANGENTS; 20' CTRS ON TAPERS; & 10' CTRS ON CURVES.

DETOUR GENERAL NOTES

- THE DETOUR PLANS SHALL BE USED IN CONJUNCTION WITH DISTRICT ONE STANDARD DETAIL TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS. RAMP CLOSURES SHALL BE IN ACCORDANCE WITH IDOT DISTRICT ONE DETAIL TC-08.
- 2. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED IN THE PLANS.
- 3. ANY SIGNS THAT ARE TO BE IN PLACE FOR MORE THAN FOUR (4) DAYS SHALL BE POST MOUNTED IN THE GROUND, WHERE POSSIBLE, PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 701901.
- 4. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE (3) WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- 5. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE (3) DAYS PRIOR TO THE REMOVAL OF THE DETOUR.
- 6. THE SIZE OF ALL SIGNS AND LETTERS HEIGHTS NOT SPECIFIED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 7. THE CONTRACTOR SHALL MAKE ALL CHANGES IN THE SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- 8. PORTABLE CHANGEABLE MESSAGE SIGNS AND SIGNS PER TC-08 SHALL BE PLACED ONE WEEK IN ADVANCE TO NOTIFY TRAFFIC OF UPCOMING CLOSURES.
- 9. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN LEGEND WITH THE PLACEMENT OF DETOUR SIGNAGE.

	T DATE = 6/19/2018 KNIGHT	DESIGNED - SJP	REVISED -		MAINTENANCE OF TRAFFIC GENERAL NOTES 167TH ST OVER I-57			SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
PLOT DATE =6/19/2018 PLOT SCALE=100.0000 '/ in.		DRAWN - SJP CHECKED - MM	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				1011.3-BR		145 20	
	Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD			AID PROJECT	

CONSTRUCTION STAGING NOTES

CONSTRUCTION - PRESTAGE

- 1. 167TH ST REMOVE CONC. BARRIER MEDIAN AND WESTBOUND HMA SHOULDERS. REPLACE WITH TEMPORARY PAVEMENT. PLACE TEMPORARY PAVEMENT MARKINGS AND TEMPORARY CONCRETE BARRIER FOR STAGE I.
- 2. I-57 AND ALIXILIARY LANES REMOVE EXISTING PROTECTIVE SHIELDING. PLACE PROPOSED PROTECTIVE SHIELDING FOR THE BRIDGE.

CONSTRUCTION - STAGE I

- 1. 167TH ST REPLACE THE BRIDGE DECK AND REPLACE PCC I-BEAMS IN THE OUTSIDE SPANS FOR THE EASTBOUND LANES. PERFORM ALL OTHER WORK RELATED TO THE EASTBOUND LANES.
- 2. I-57 AUXILIARY LANES REMOVE AND REPLACE BEARINGS AT ABUTMENT. PERFORM STRUCTURAL REPAIRS ON ABUTMENT.
- 3. I-57 AND AUXILIARY LANES -PERFORM STRUCTURAL REPAIRS ON CENTER PIER. REMOVE PROTECTIVE SHIELDING FOR THE EASTBOUND LANES.
- 4. SIGNING INSTALL TEMPORARY RAMP GUIDE SIGNS ON GROUND MOUNTED SUPPORTS AND REMOVE THE TWO GUIDE SIGNS ATTACHED TO BRIDGE SOUTH PARAPET. AT THE END OF THIS STAGE, REINSTALL THE EXISTING BRIDGE MOUNTED NORTHBOUND TOLLWAY GUIDE SIGN AND INSTALL NEW NORTHBOUND RAMP GUIDE SIGN.

CONSTRUCTION - STAGE II

- 1. 167TH ST REPLACE THE BRIDGE DECK AND REPLACE PCC I-BEAMS IN THE OUTSIDE SPANS FOR THE WESTBOUND LANES. CONSTRUCT THE RAISED MEDIAN ON THE BRIDGE AND APPROACH SLABS. PERFORM ALL OTHER WORK RELATED TO THE WESTBOUND LANES.
- 2. I-57 AUXILIARY LANES REMOVE AND REPLACE BEARINGS AT ABUTMENT. PERFORM STRUCTURAL REPAIRS ON ABUTMENT.
- 3. I-57 AND AUXILIARY LANES -PERFORM STRUCTURAL REPAIRS ON CENTER PIER. REMOVE PROTECTIVE SHIELDING FOR THE WESTBOUND LANES. INSTALL THE UNDERPASS LIGHTING.
- 4. SIGNING INSTALL TEMPORARY RAMP GUIDE SIGN, REMOVE RAMP GUIDE SIGN ATTACHED TO BRIDGE NORTH PARAPET. AT THE END OF THIS STAGE, INSTALL NEW BRIDGE MOUNTED SB RAMP GUIDE SIGN.

CONSTRUCTION - STAGE III

- 1. REMOVE TEMPORARY PAVEMENT IN THE MEDIAN AND CONSTRUCT THE CONCRETE MEDIAN TYPE SB-6.06.
- 2. PLACE FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS.

TRAFFIC CONTROL NOTES

IRAFFIC CONTROL - PRESTAGE (NOT SHOWN)

- 1. 167TH ST (MEDIAN WORK) CLOSE INSIDE LANE IN EACH DIRECTION. UTILIZE STD 701601. ARTERIAL LANE CLOSURES WILL NOT BE PERMITTED DURING PEAK TRAFFIC VOLUME HOURS AS LISTED IN SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY".
- 2. I-57 NB EXIT RAMP NB I-57 TO WB 167TH ST (SHOULDER WORK) CLOSE RIGHT RAMP SHOULDER AND PARTIAL CLOSURE OF RAMP PAVEMENT USING DISTRICT STANDARD TC-17.

EAST OF THE BRIDGE, CLOSE 167TH ST. OUTSIDE WB LANE, USING STD 701601. USE THIS LANE AS WEAVE LANE.

I-57 SB ENTRANCE RAMP - WB 167TH ST TO SB I-57 (SHOULDER WORK) - CLOSE RIGHT RAMP SHOULDER AND PARTIAL CLOSURE OF RAMP PAVEMENT LISING DISTRICT STANDARD TC-17.

I-57 AND AUXILIARY LANES (PROTECTIVE SHIELDING) - TEMPORARY LANE CLOSURES WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE I-57 LANES USING STD 701400, 701401 & 701446; ALONG WITH DISTRICT STANDARDS TC-09 & TC-17.

TRAFFIC CONTROL - STAGE I

- 1. 167TH ST MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND ACCESS TO AND FROM THE I-57 RAMPS ALONG WB 167TH ST. SEE PLANS FOR THIS STAGE.
- CLOSE RAMP USING DISTRICT STANDARD TC-08. SEE DETOUR PLANS AND DISTRICT STD TC-21.
- 2. I-57 AUXILIARY LANES (BEARING REPLACEMENT) CLOSE AUXILIARY LANE RIGHT SHOULDER WITH TEMPORARY CONCRETE BARRIER. SEE PLANS AND DISTRICT STANDARD TC-17 FOR THIS STAGE.
- 3. I-57 AND AUXILIARY LANES (CENTER PIER REPAIR AND PROTECTIVE SHIELDING REMOVAL) -PIER REPAIR - TEMPORARY SHOULDER CLOSURE WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE SHOULDER USING DISTRICT STANDARD TC-17.
- PROTECTIVE SHIELDING TEMPORARY I-57 LANE CLOSURES WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE I-57 LANES USING STD 701400, 701401 & 701446; ALONG WITH DISTRICT STANDARDS TC-09 & TC-17.
- 4. BRIDGE MOUNTED SIGNING TEMPORARY I-57 LANE CLOSURES WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL STANDARDS TC-09 & TC-17. EASTBOUND LANES OF 167TH ST WILL BE CLOSED TO TRAFFIC FOR THIS STAGE.

TRAFFIC CONTROL - STAGE II

1. 167TH ST - MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AND ACCESS TO AND FROM THE I-57 RAMPS ALONG EASTBOUND 167TH ST. SEE PLANS FOR THIS STAGE.

CLOSE I-57 LOOP RAMPS - ENTRANCE RAMP (WB 167TH ST TO SB I-57) AND I-57 EXIT RAMP (NB I-57 TO WB 167TH ST). DETOUR RAMP TRAFFIC. CLOSE RAMP USING DISTRICT STANDARD TC-08. SEE DETOUR PLANS AND DISTRICT STD TC-21.

- 2. I-57 AUXILIARY LANES (BEARING REPLACEMENT) CLOSE AUXILIARY LANE RIGHT SHOULDER WITH TEMPORARY CONCRETE BARRIER. SEE PLANS AND DISTRICT STANDARD TC-17 FOR THIS STAGE.
- 3. I-57 AND AUXILIARY LANES (CENTER PIER REPAIR AND PROTECTIVE SHIELDING REMOVAL) -PIER REPAIR - TEMPORARY SHOULDER CLOSURE WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE SHOULDER USING DISTRICT STANDARD TC-17.

PROTECTIVE SHIELDING - TEMPORARY I-57 LANE CLOSURES WILL BE ALLOWED DURING THE TIMES LISTED IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE I-57 LANES USING STD 701400, 701401 & 701446 ; ALONG WITH DISTRICT STANDARDS TC-09 & TC-17.

4. BRIDGE MOUNTED SIGNING AND UNDERPASS LIGHTING - TEMPORARY I-57 LANE CLOSURES WILL BE ALLOWED DURING THE TIMES LISTED DISTRICT STANDARD TC-09 & TC-17. WESTBOUND LANES OF 167TH ST WILL BE CLOSED TO TRAFFIC FOR THIS STAGE.

TRAFFIC CONTROL - STAGE III (NOT SHOWN)

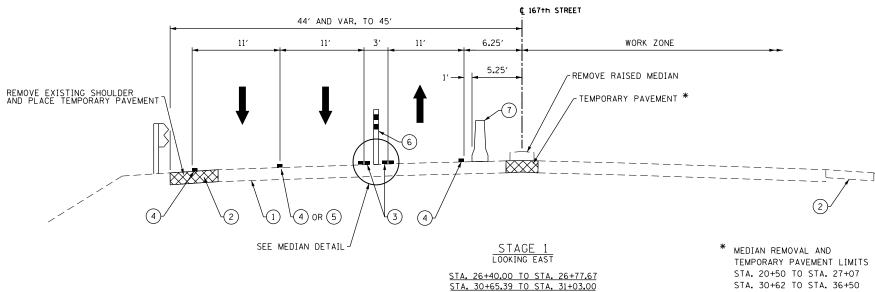
- 1. MAINTAIN EASTBOUND TRAFFIC IN STAGE II CONFIGURATION AND PLACE TYPE II BARRICADES CONTINUOUSLY ALONG DOUBLE YELLOW TEMPORARY PAVEMENT MARKING. PLACE WESTBOUND TRAFFIC IN THE OUTSIDE LANE OF THE NEWLY CONSTRUCTED WESTBOUND 167TH ST PAVEMENT. CLOSE INSIDE WESTBOUND LANE USING STD 701601.
- 2. 167TH ST USE STD 701426 TO PLACE FINAL PAVEMENT MARKINGS.

Å		DESIGNED - SJP	REVISED -			MAINTENANCE OF TRAFFIC ST	AGING NOTES	F.A.I.	SECTION	COUNTY	TOTAL SHEET
[≥] PLOT DATE =6/19/2018	KNIGHT	DRAWN - SJP	REVISED -	STATE OF ILLINOIS	167TH ST OVER I-57			57	1011.3-BR	соок	145 21
PLOT SCALE=100.0000 '/ in.		CHECKED - MM	REVISED -	DEPARTMENT OF TRANSPORTATION		10/1H SI UVEN I)/				T NO. 60T43
	Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS ST	. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	

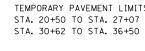
CLOSE I-57 LOOP RAMPS - ENTRANCE RAMP (EB 167TH ST TO NB I-57) AND I-57 EXIT RAMP (SB I-57 TO EB 167TH ST). DETOUR RAMP TRAFFIC.

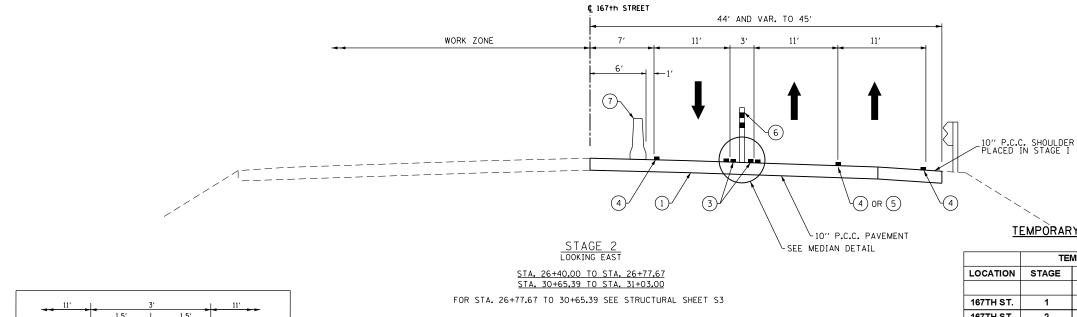
PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE I-57 LANES USING STD 701400, 701401 & 701446; ALONG WITH DISTRICT

IN THE SPECIAL PROVISION "KEEPING EXPRESSWAY OPEN TO TRAFFIC". CLOSE I-57 LANES USING STD 701400, 701401 & 701446; AND



FOR STA. 26+77.67 TO 30+65.39 SEE STRUCTURAL SHEET S3





PINNING TEMP. CONC. BARRIER SCHEDULE

							RELC	CATE TEMP	CONCRETE	BARRIER	
	PIN	ING TEMP C	CONCRETE	BARRIER		LOCATION	STAGE	STA	то	STA	LENGTH
LOCATION	STAGE	STA	то	STA	EACH						FEET
						167TH ST.	2	25+35		26+35	100
167TH ST.	1	26+29		31+04	122	167TH ST.	2	31+10		32+60	150
				TOTAL	122						
				IUTAL	122					TOTAL	250

11'	3′	11'	
	1.5′	1.5′	
Ļ		6	1
3	MEDIAN DE		$\sqrt{3}$

PLOT DATE = 6/19/2018	KNIGHT	DESIGNED - SJP DRAWN - SJP CHECKED - MM	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	M	AINTENANCE OF TRAFFIC T 167Th St over
- PLUT SCALE = 120.000 7 In.	Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS

LEGEND

- 1 PCC PAVEMENT, 10"±
- 2 HMA SHOULDER (EXISTING)
- 3 2-4" YELLOW LINE AT 11" C-C
- (4) 4" WHITE LINE
- 5 6" WHITE SKIP-DASH LINE
- 6 TUBULAR MARKER
- TEMPORARY CONCRETE WALL

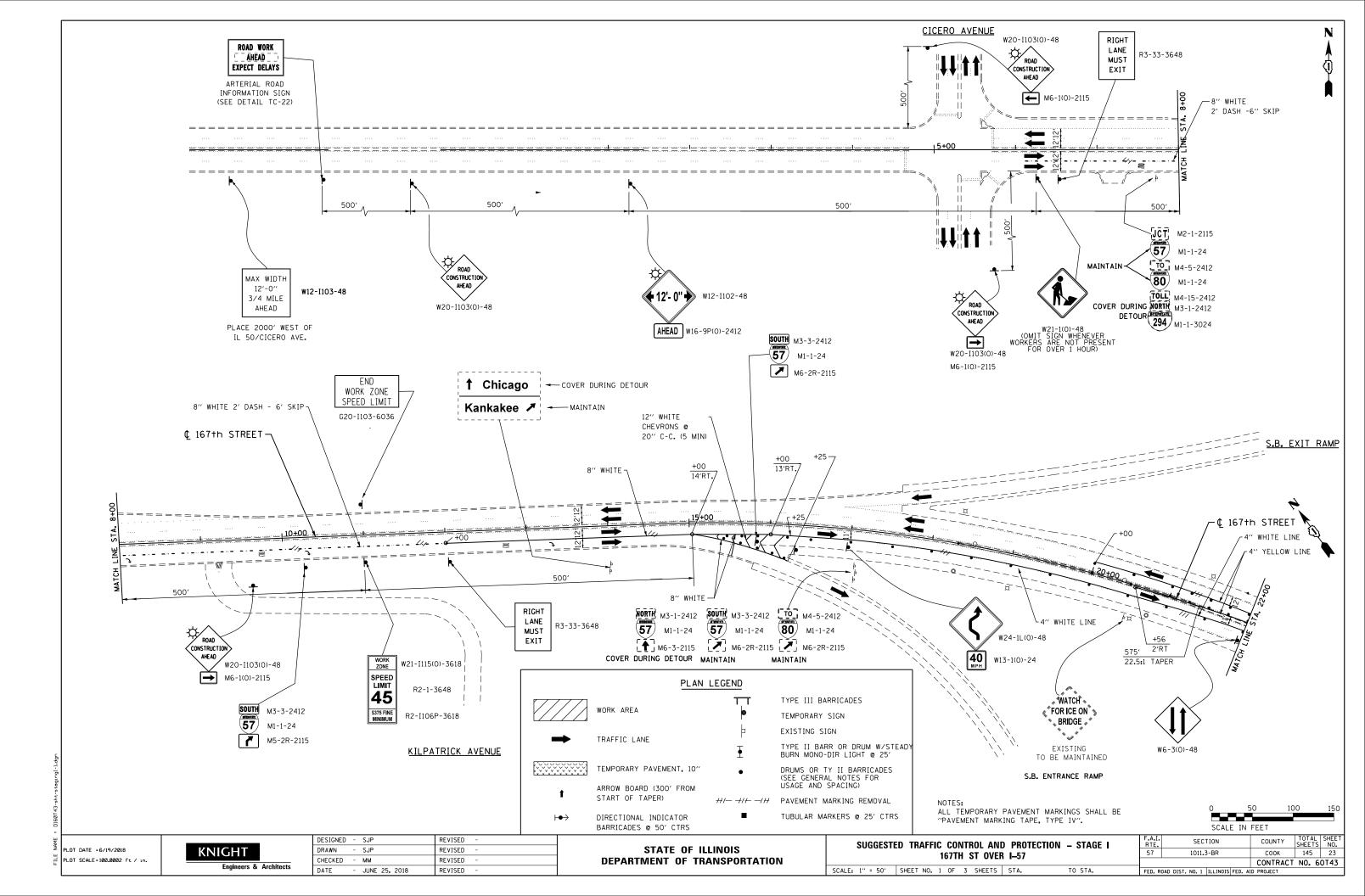
NOTES: ALL TEMPORARY PAVEMENT MARKINGS SHALL BE "PAVEMENT MARKING TAPE, TYPE IV".

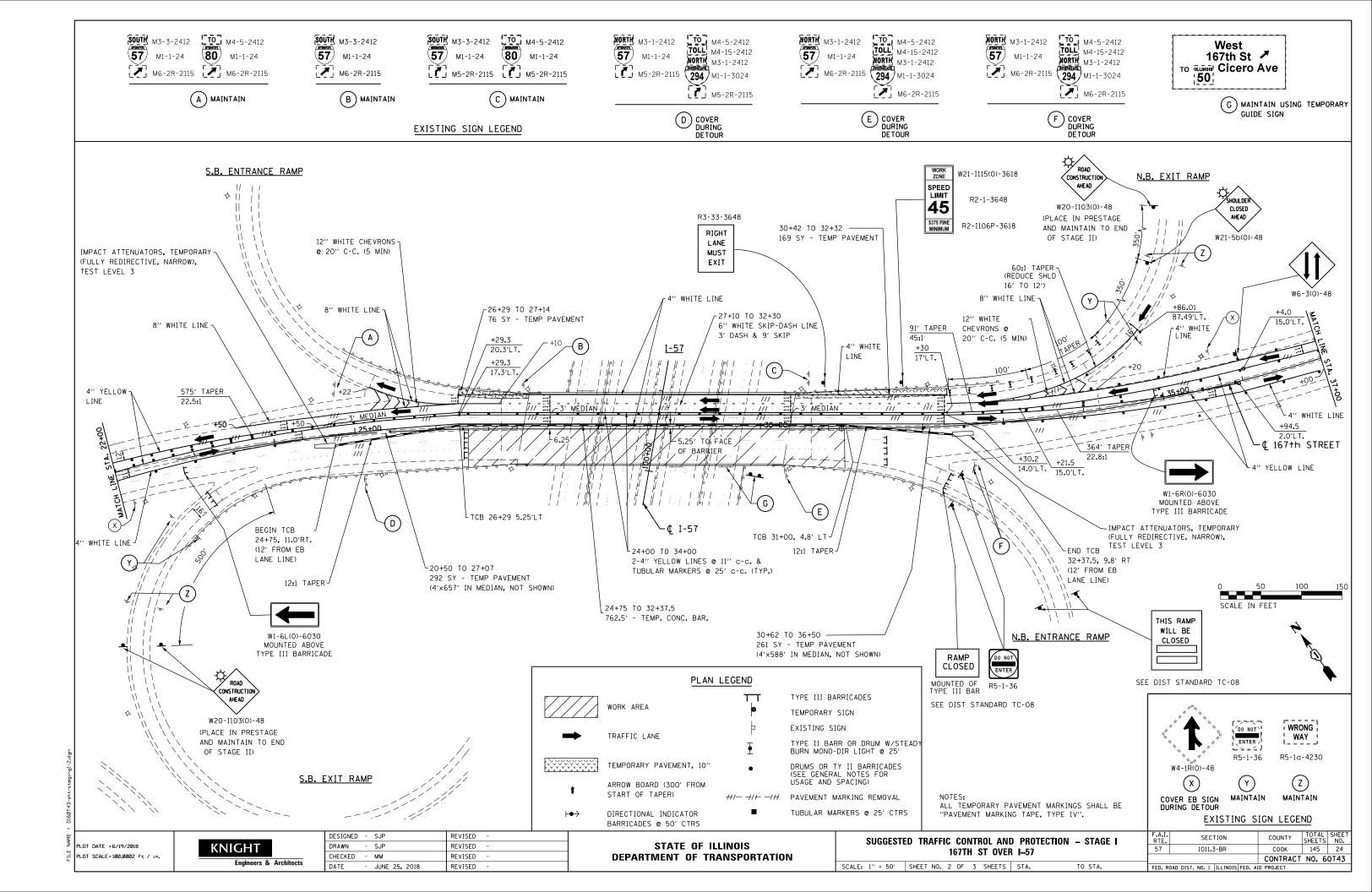
TEMPORARY CONCRETE BARRIER SCHEDULE

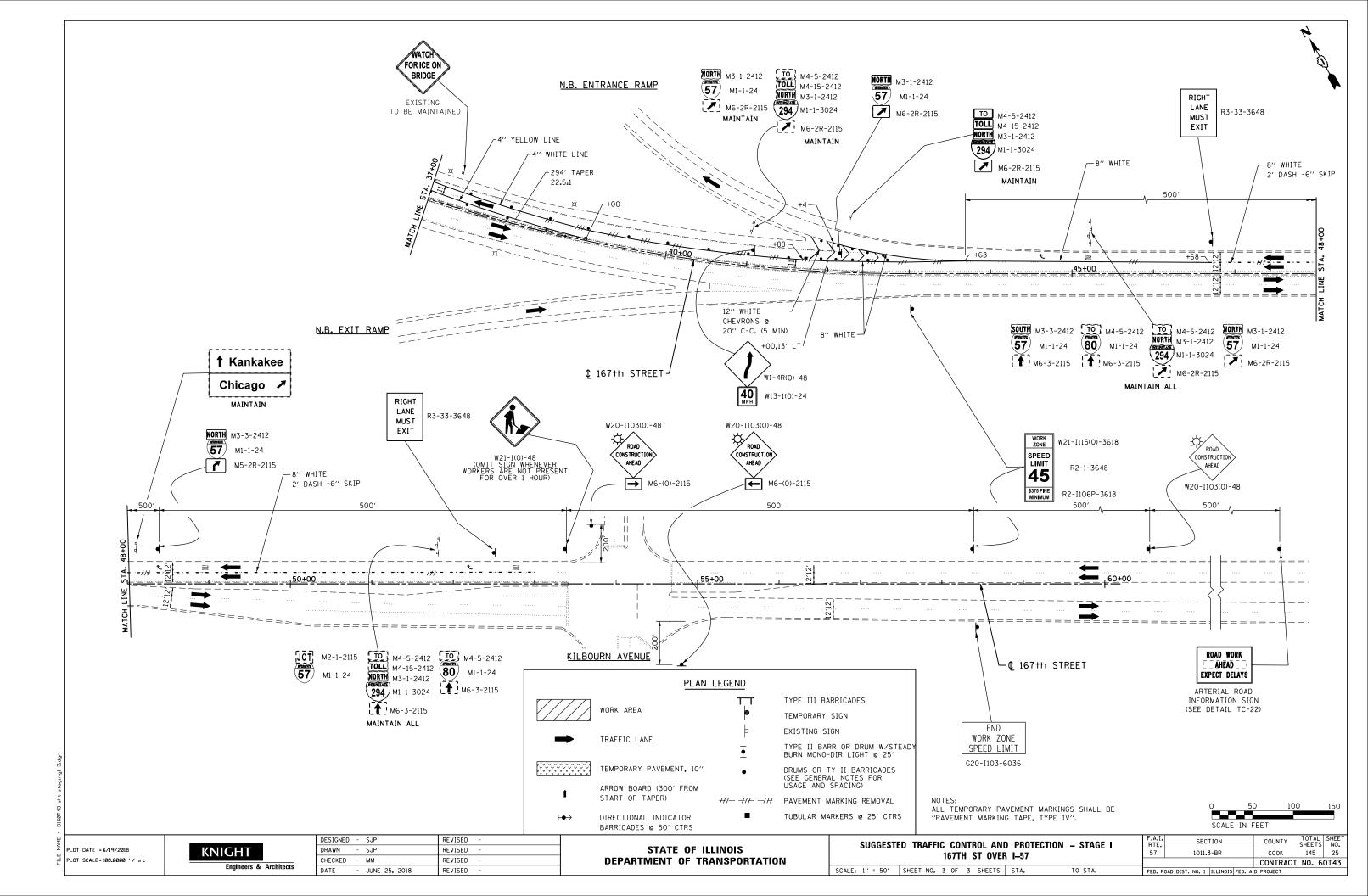
LOCATION	STAGE	STAGE STA TO		STA	LENGTH
					FEET
167TH ST.	1	24+75		32+37.50	762.5
167TH ST.	2	26+35		31+10	475
I-57 NB	ALL	98+77		101+27	250
I-57 SB	ALL	99+79		102+29	250
				TOTAL	1737.5

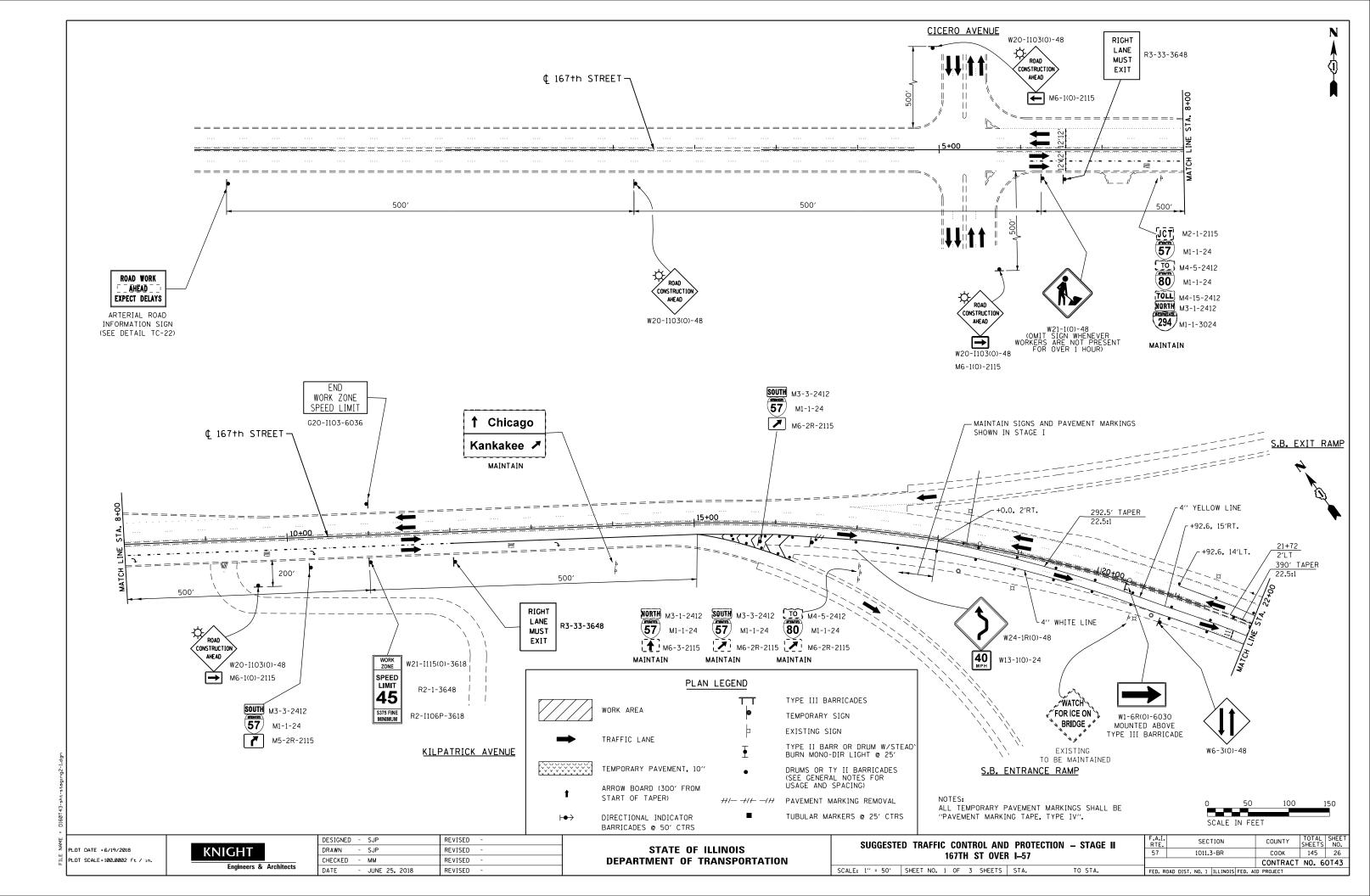
MOTTYP-1

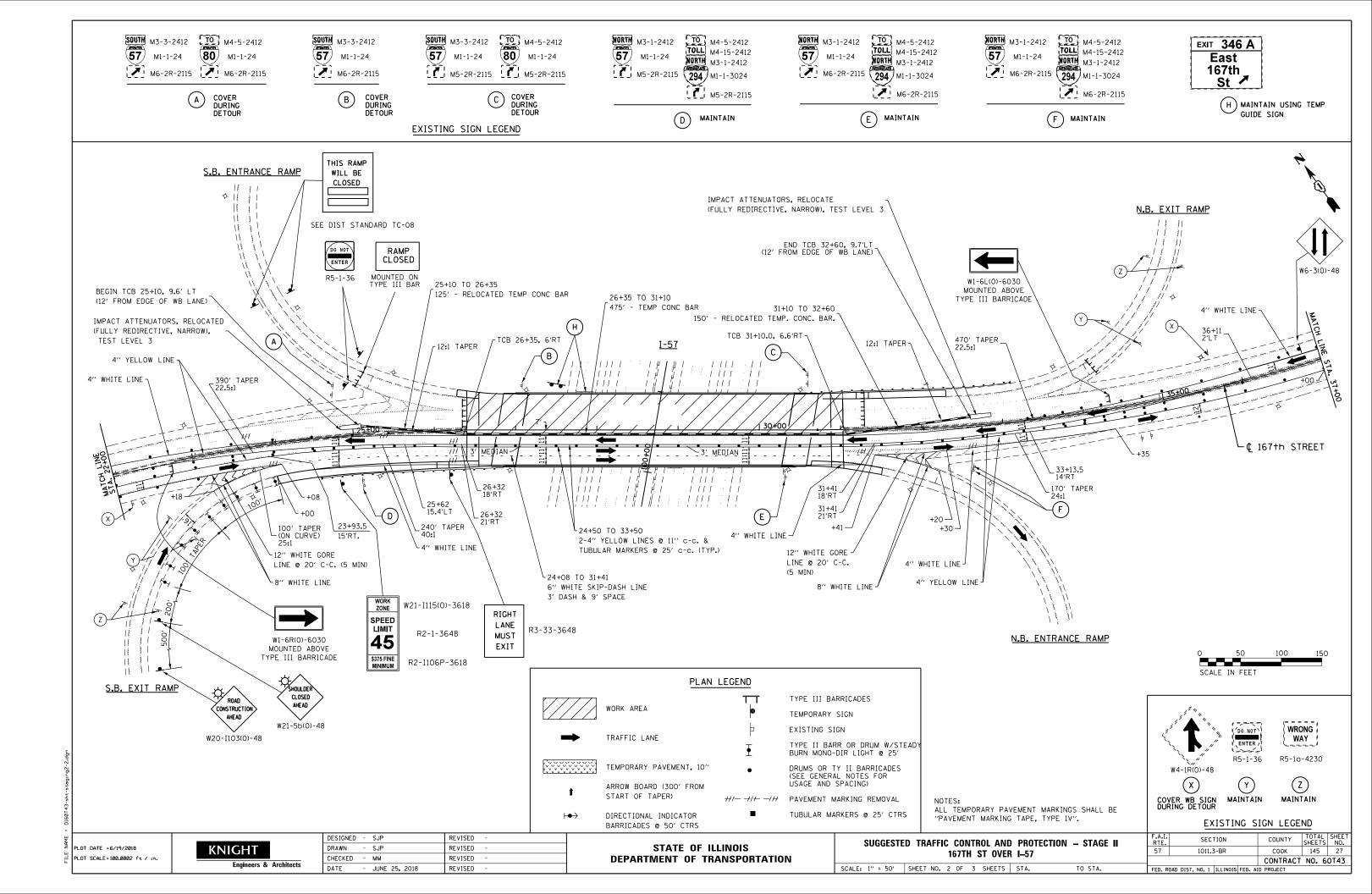
C TYPICAL SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ER I–57		57	1011.3-BR	СООК	145	22	
					CONTRACT	NO. 6	OT43
5	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

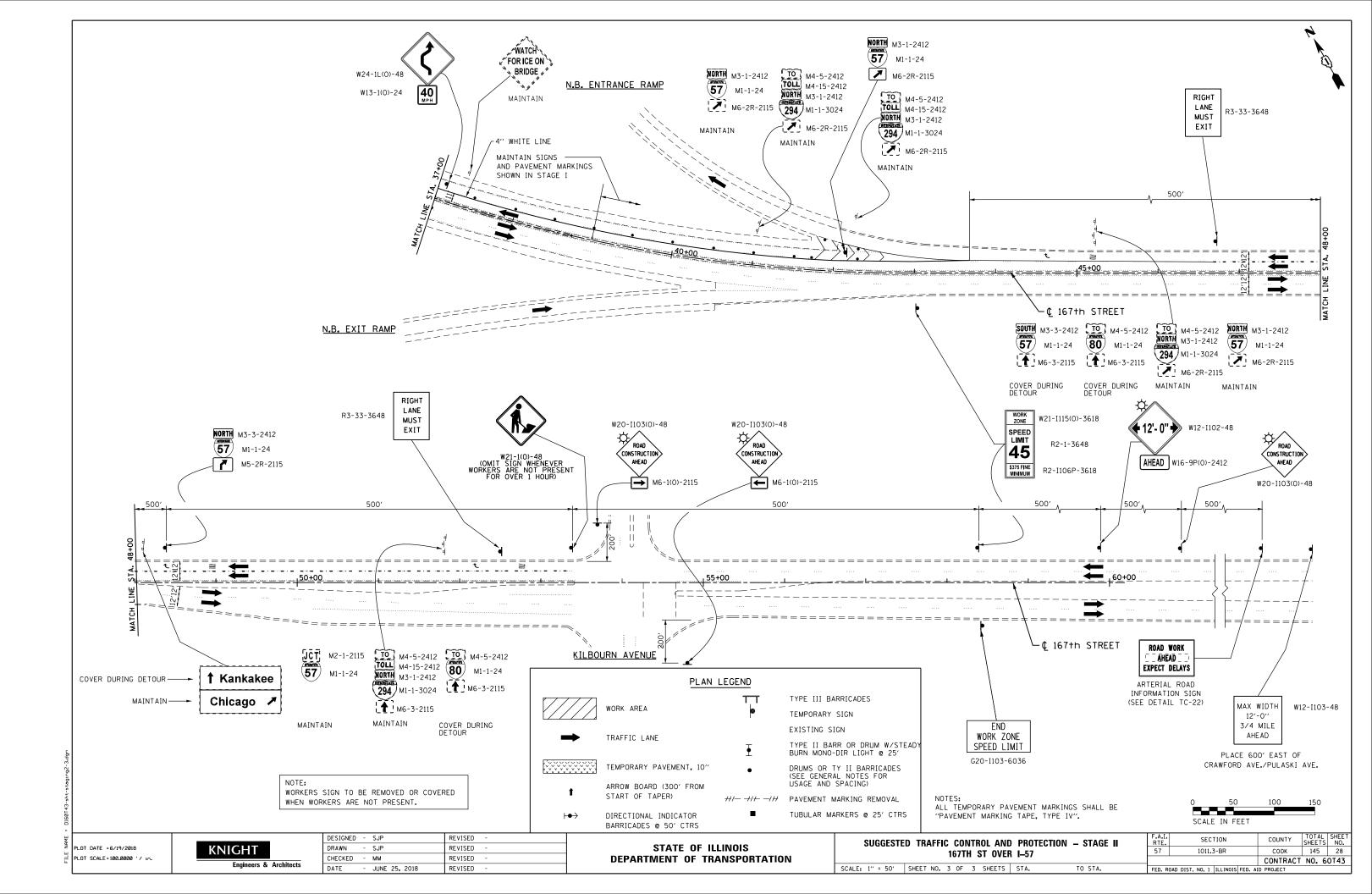


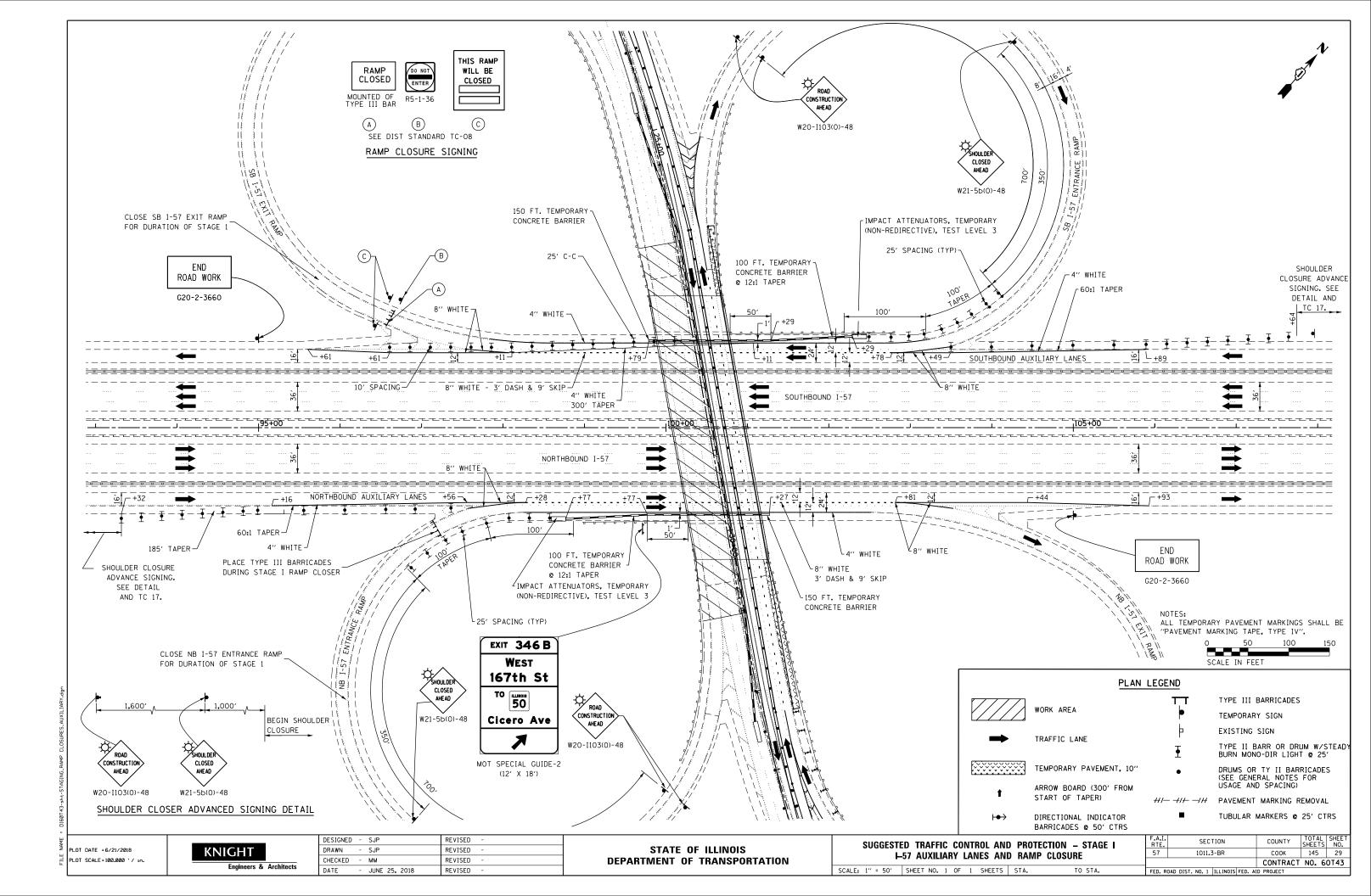


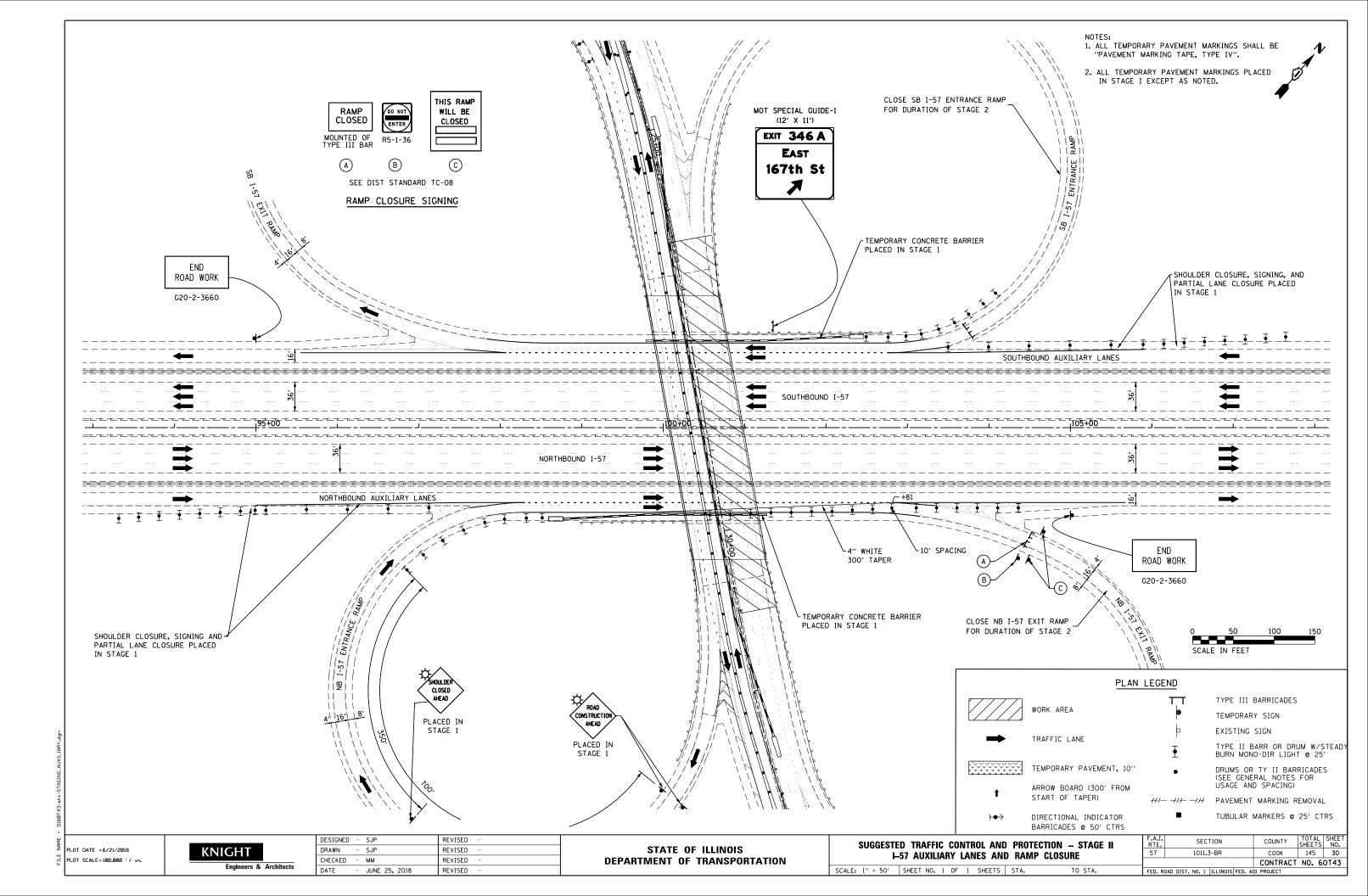


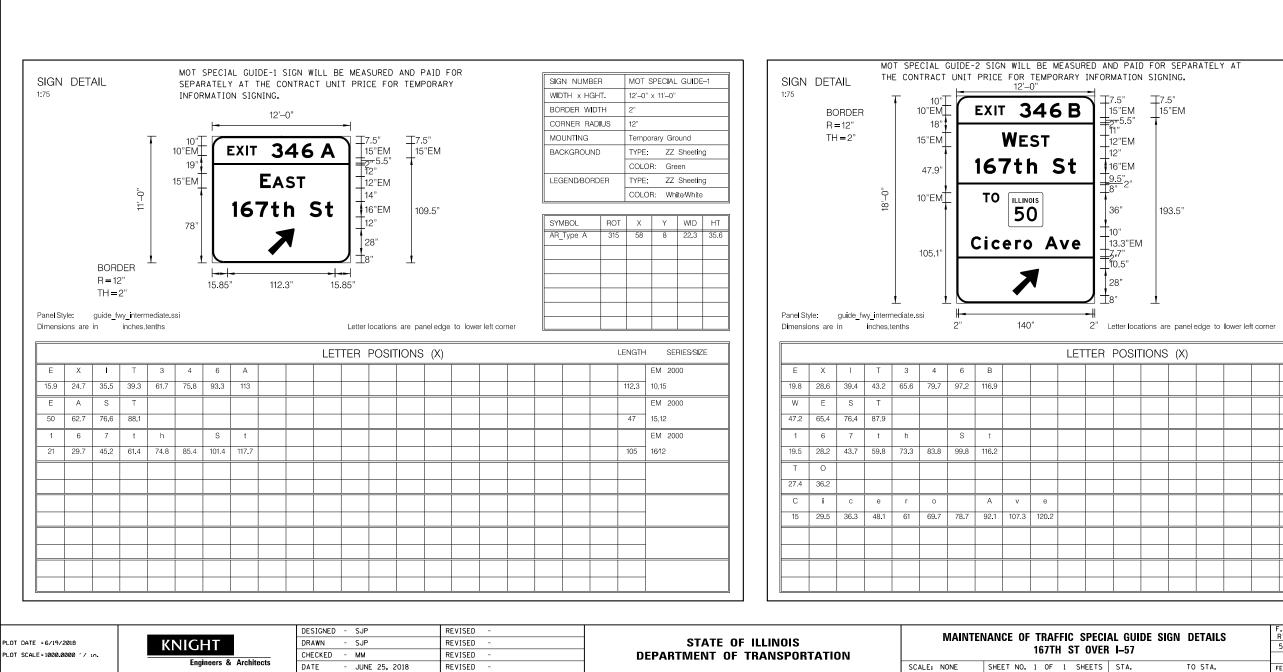












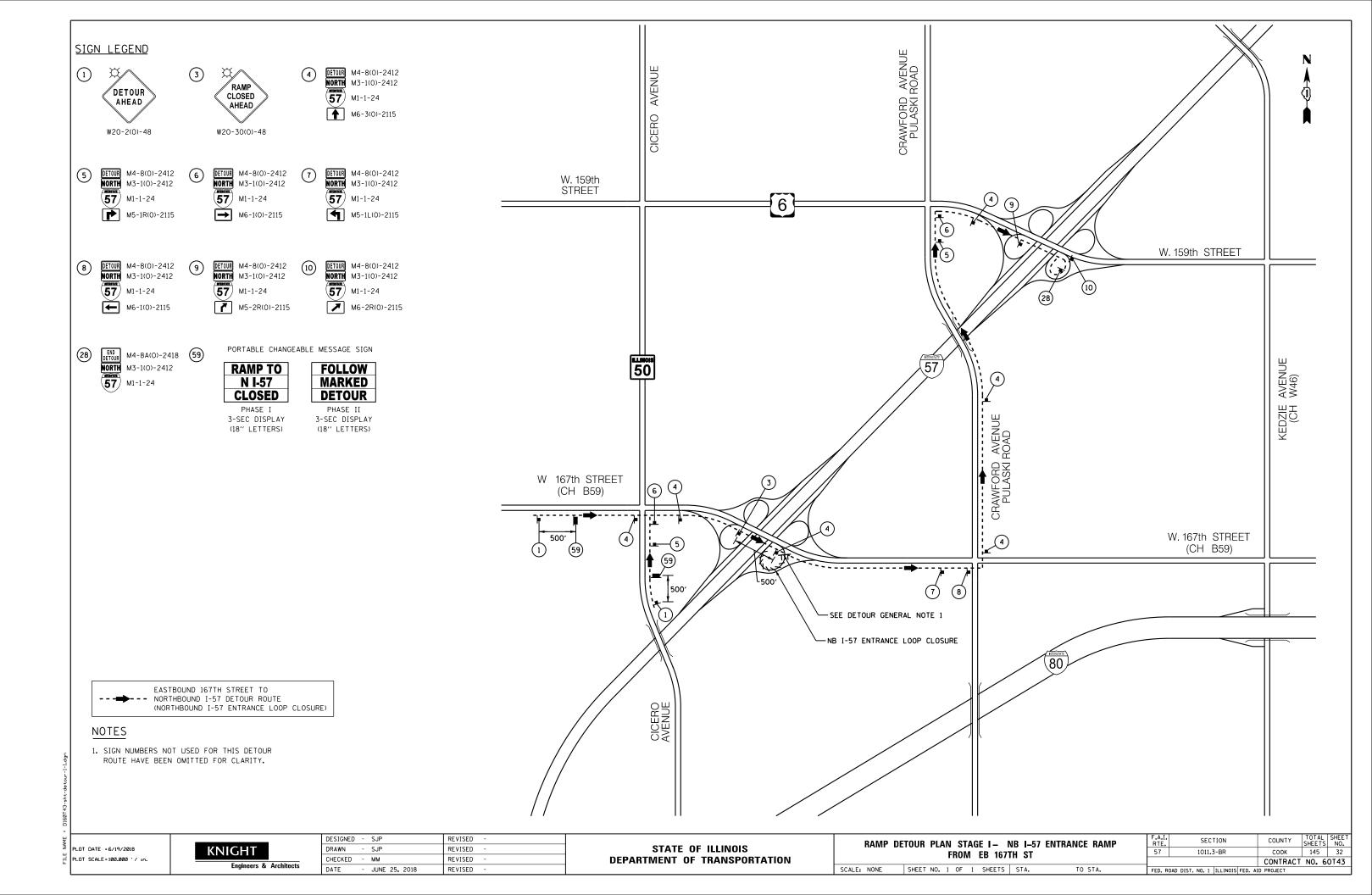
N DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	57	1011.3-BR	СООК	145	31				
			CONTRACT	NO. 6	OT43				
TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		IN DETAILS RTE. 57	IN DETAILS RTE. SECTION 57 1011.3-BR	IN DETAILS RTE. SECTION COUNTY 57 1011.3-BR COOK CONTRACT	IN DETAILS RTE. SECTION COUNTY SHEETS 57 1011.3-BR COOK 145 CONTRACT NO. 6				

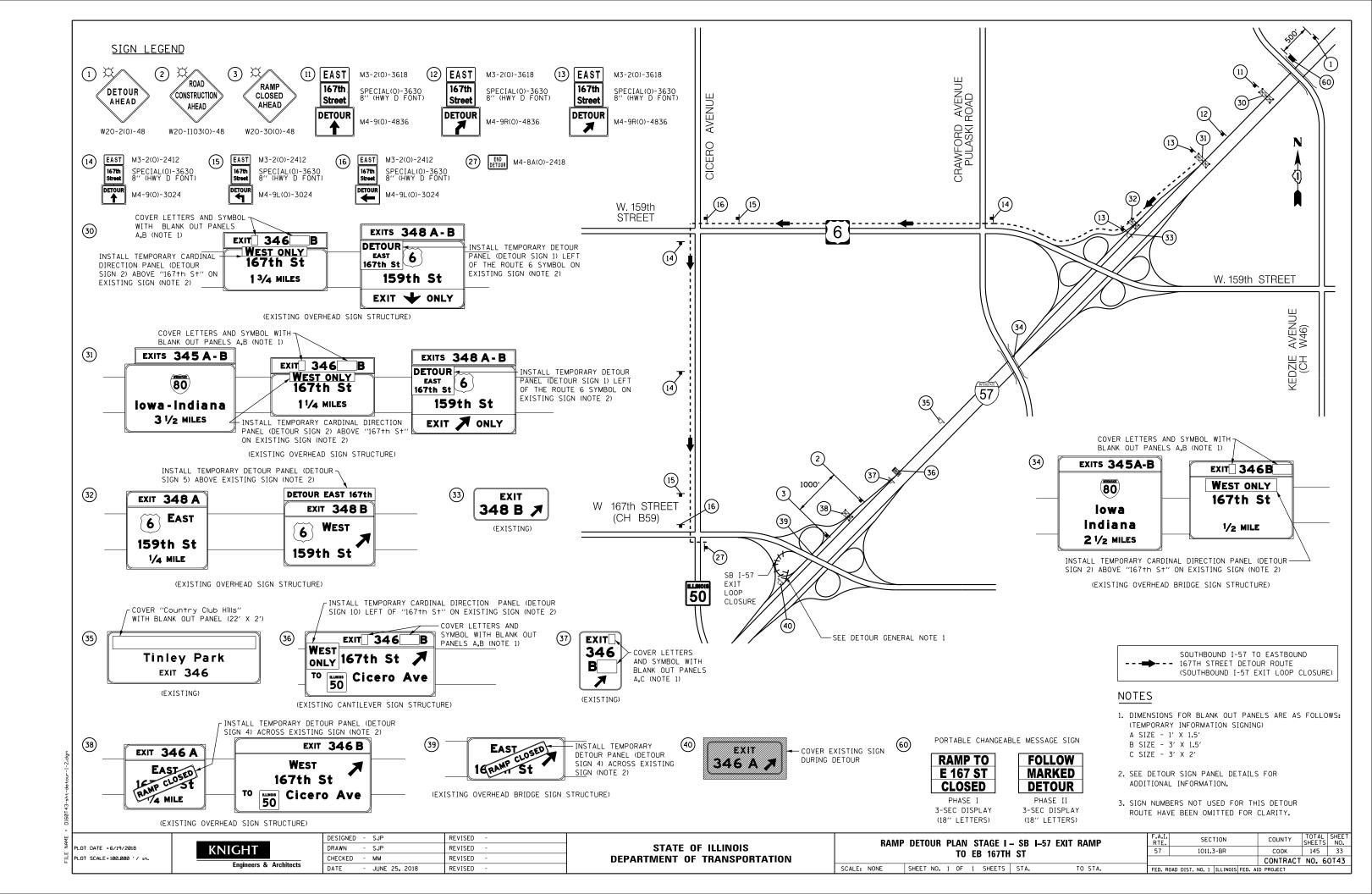
	EM 2000
109.3	10,15
	EM 2000
49.6	15,12
	EM 2000
105	16/12
	EM 2000
17.2	10
	EM 2000
114	13.3/10

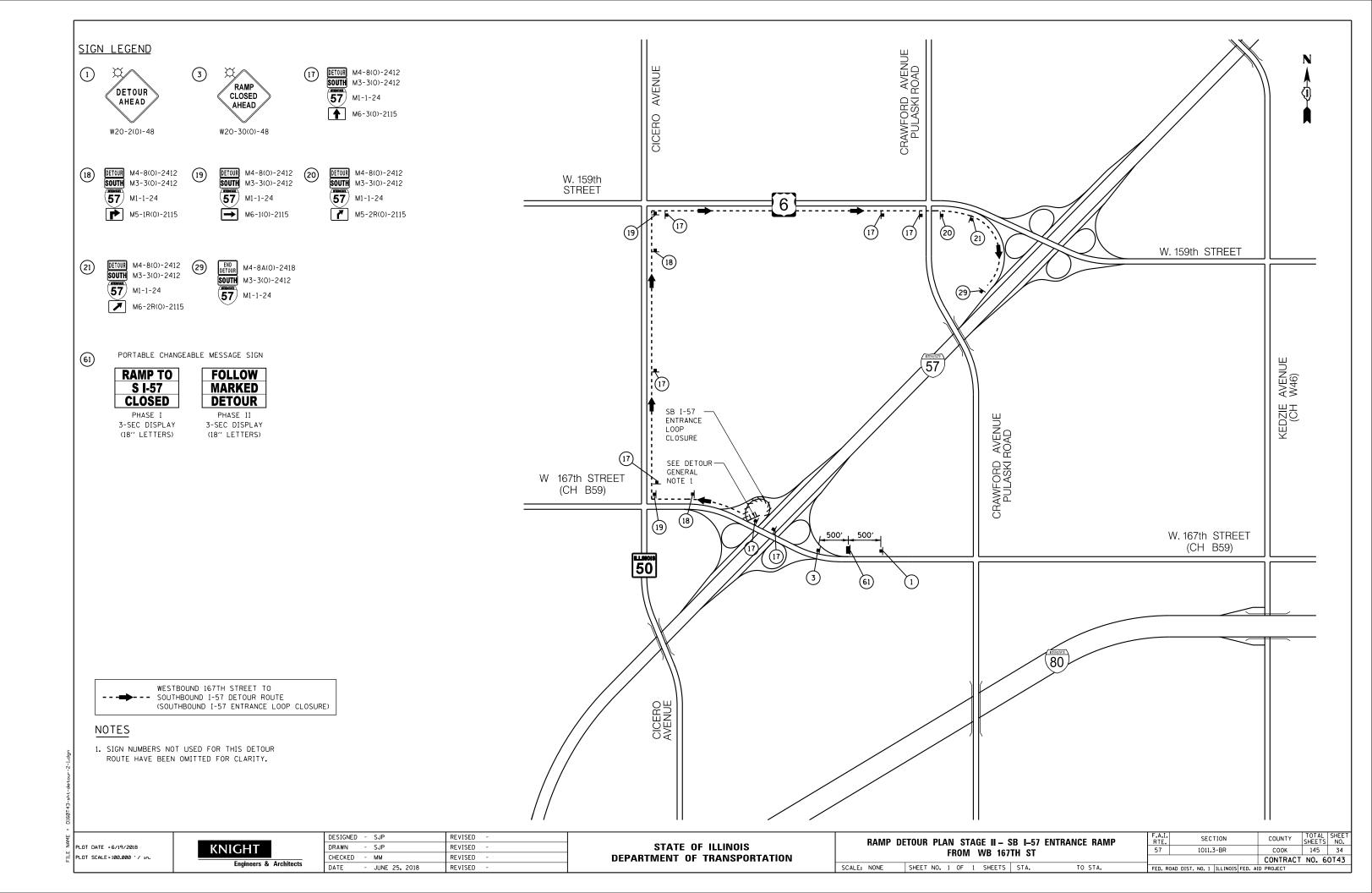
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<u>9.5</u> "2"		LEGEND/BORDER		TYPE: ZZ SHEETING					
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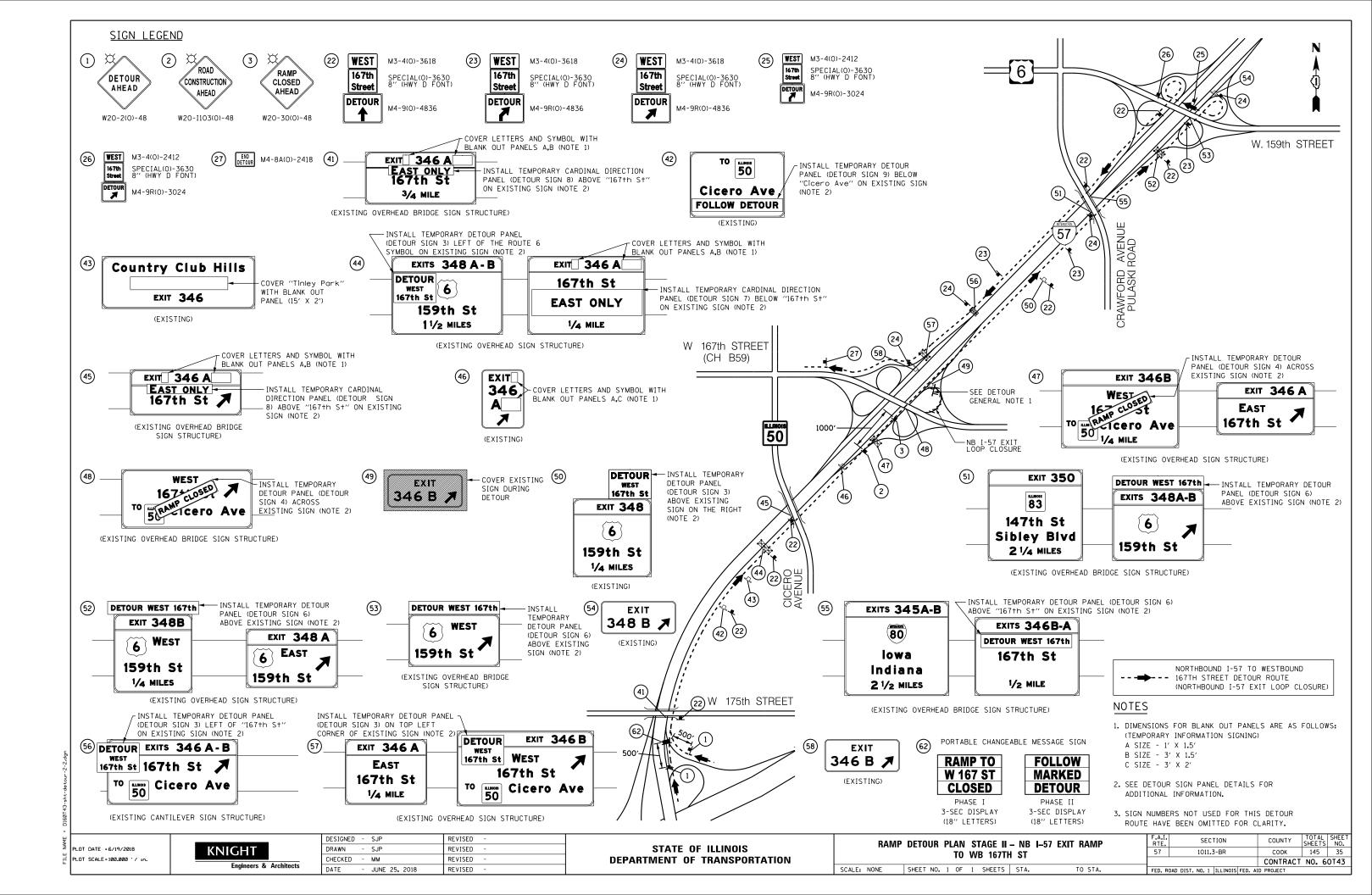
35.6

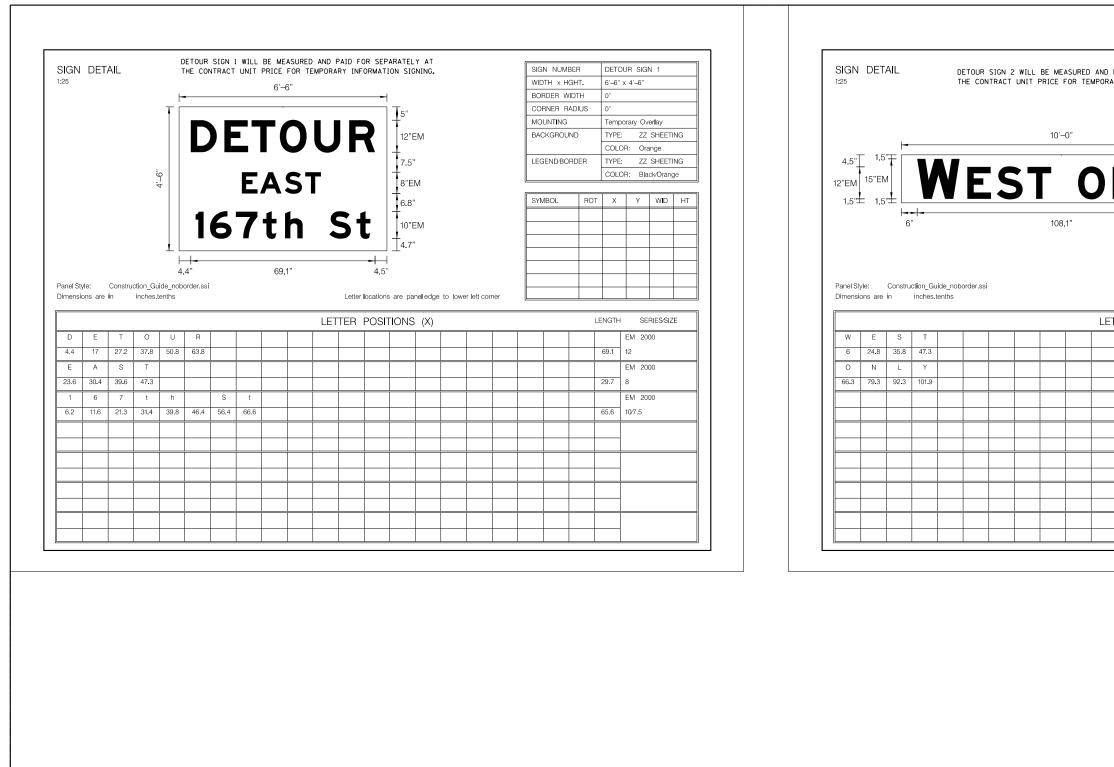
LENGTH SERIES/SIZE











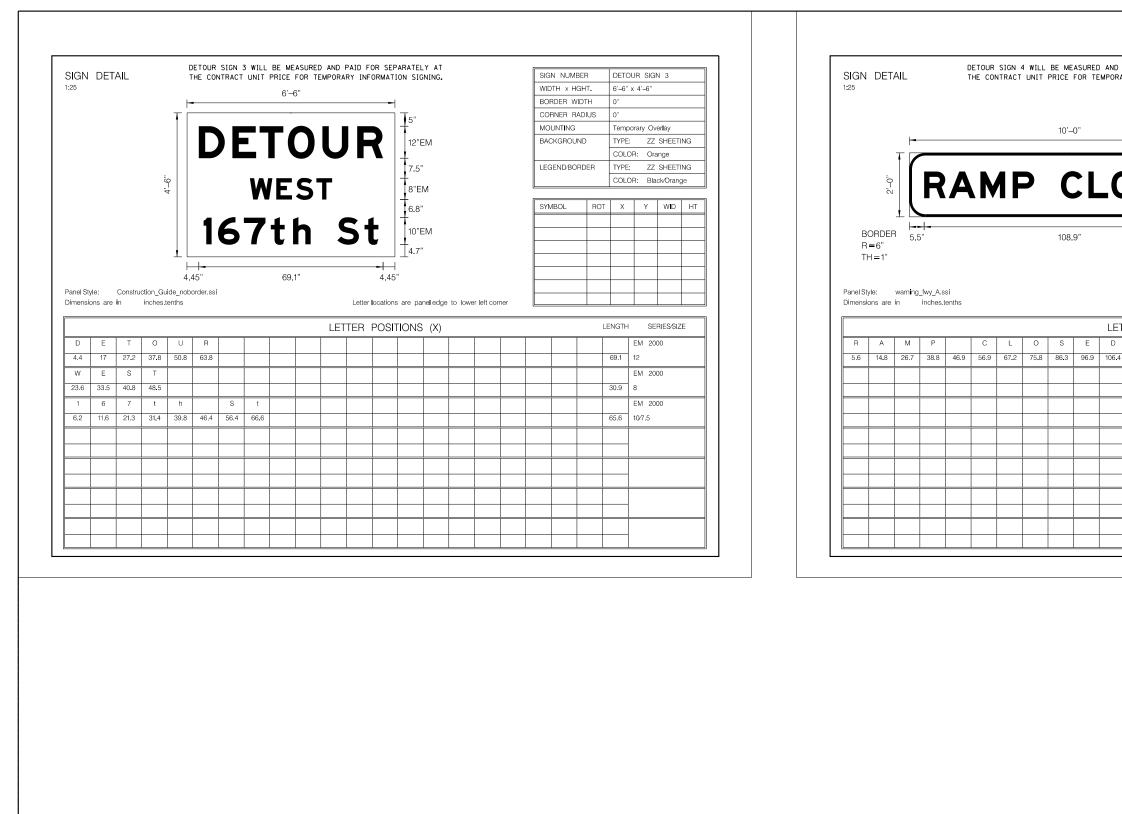
 DESIGNED
 MJM
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 REVISED
 STATE OF ILLINOIS
 DEFOUR GUIDE SIGN PAN

 Engineers & Architects
 Date
 JUNE 25, 2018
 REVISED
 DEFOUR GUIDE SIGN PAN

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PANEL DETAILS		57	57 1011.3-BR						COOK	145		36			
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S	STA.	TO STA.	FED.	ROAD	DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT				



KNIGHT	DESIGNED - MJM DRAWN - PAW CHECKED -	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DETOUR GUIDE SIGN P	PAI
Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE:	SHEET NO. 2 OF 7 SHEETS	

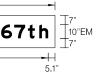
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KNIGHT	DRAWN - PAW	REVISED -	STATE OF ILLINOIS	Í	DETOUR GUIDE SIGN PAN
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	
Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE:	SHEET NO. 3 OF 7 SHEETS S

FOR SEPARATELY AT FORMATION SIGNING.

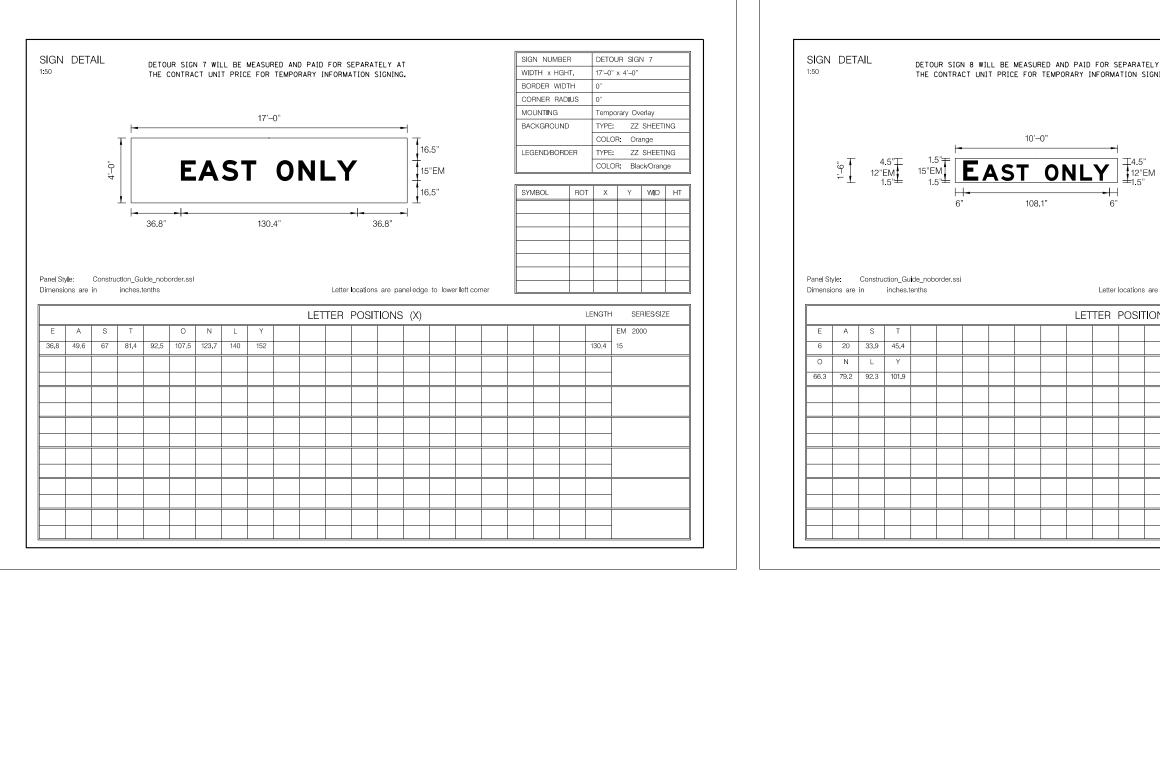


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BORDER WIDT	Ή	0"										
CORNER RAD	US	0"										
MOUNTING		Temporary Overlay										
BACKGROUND		TYPE:	ZZ	SHEET	NG							
		COLOR: Orange										
LEGEND/BORD	ER	TYPE: ZZ SHEETING										
		COLO	R: Bla	ck/Orang	je							
SYMBOL	ROT	Х	Y	WID	ΗT							

Letter locations are panel edge to lower left corner

TER POSITIONS (X) LENGTH SERIESSIZE													
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112.8	122.8	128.2	137.9	148	156.4					156.4	10⁄7.5		

_			F.A. RTE			SEC	TION			COUNTY		TOTA SHEET		SHEET NO.
PANEL DETAILS		57			1011.	3-BR			COOK		145		38	
_										CONTRAC	CT.	NO.	60)T43
5	STA.	TO STA.	FED.	ROAD	DIST.	NO. 1	ILLINOIS	FED.	AID	PROJECT				



KNIGHT	DESIGNED - MJM DRAWN - PAW CHECKED -	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DETOUR GUIDE SIGN PAI
Engineers & Architects	DATE - JUNE 25, 2018	REVISED -		SCALE:	SHEET NO. 4 OF 7 SHEETS 5

FOR	SEPARA	TELY	ΑT	
FORM	ATION	SIGNI	NG.	

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		COLOR: Orange										
LEGEND/BORD	ER	TYPE:	ZZ	SHEET	NG							
		COLO	R: Bla	ck/Orang	je							
SYMBOL	ROT	Х	Y	WID	ΗT							

Letter locations are paneledge to lower left corner

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48.3 15,12	
EM 2000)
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_			F.A. RTE		SECT	LION		COUNTY	TOTAL SHEETS	SHEET NO.
PANEL DETAILS		57		1011.3	3-BR		СООК	145	39	
								CONTRACT	NO. 6	OT43
S	STA.	TO STA.	FED.	ROA	AD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT		

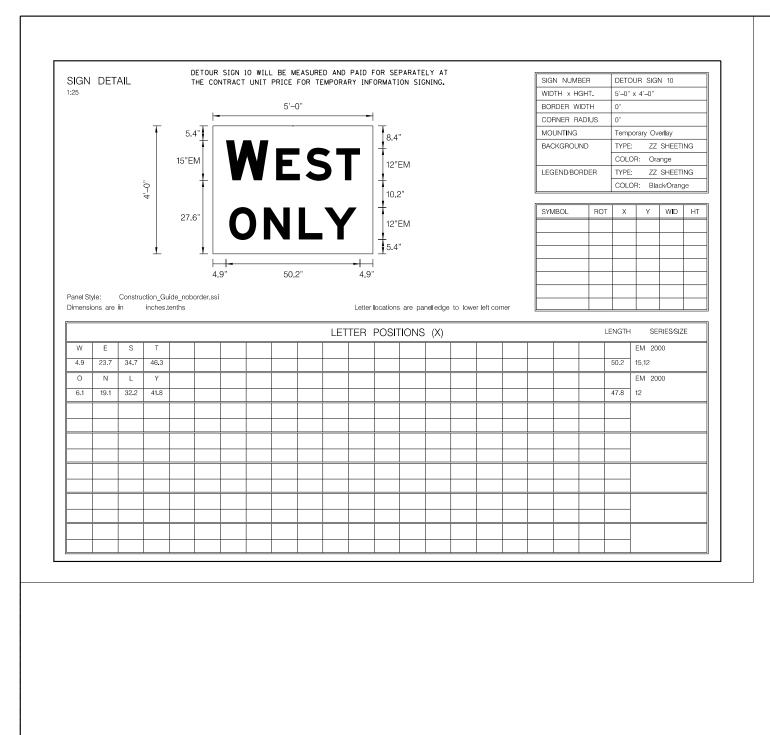
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8.7	19.6	32.6	43.4	53.7	65.5	78.2	90.2	102.8	113	123.5	136.5	149.6									150.6	12		

 KNIGHT
 DESIGNED
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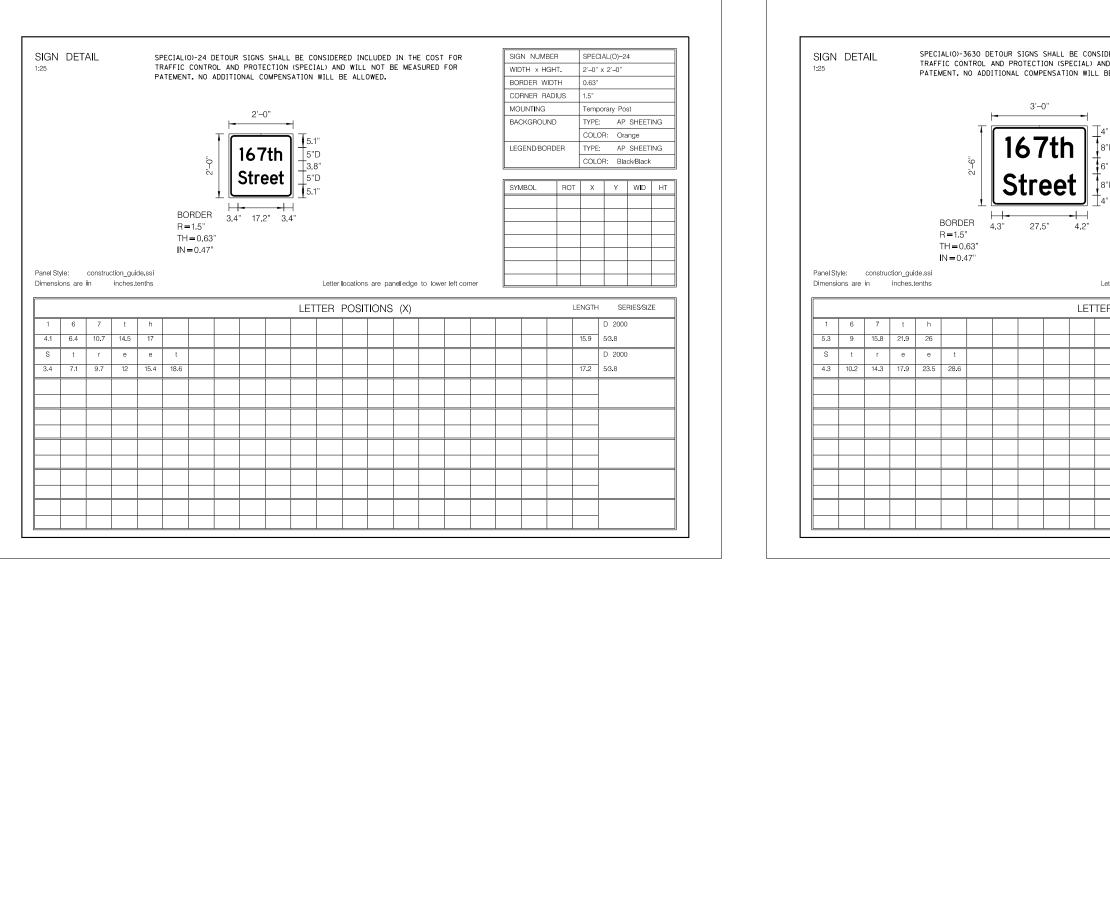
 Brawn
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 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 DEFOUR GUIDE SIGN PAN

 Index Architects
 Date
 - JUNE 25, 2018
 REVISED
 State of TRANSPORTATION
 Scale:
 SHEET NO. 5 OF 7 SHEETS
 SHE

_	-		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
۲	PANEL DETAILS		57	1011.3-BR	СООК	145	40
_			_		CONTRACT	NO. 6	OT43
S	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		



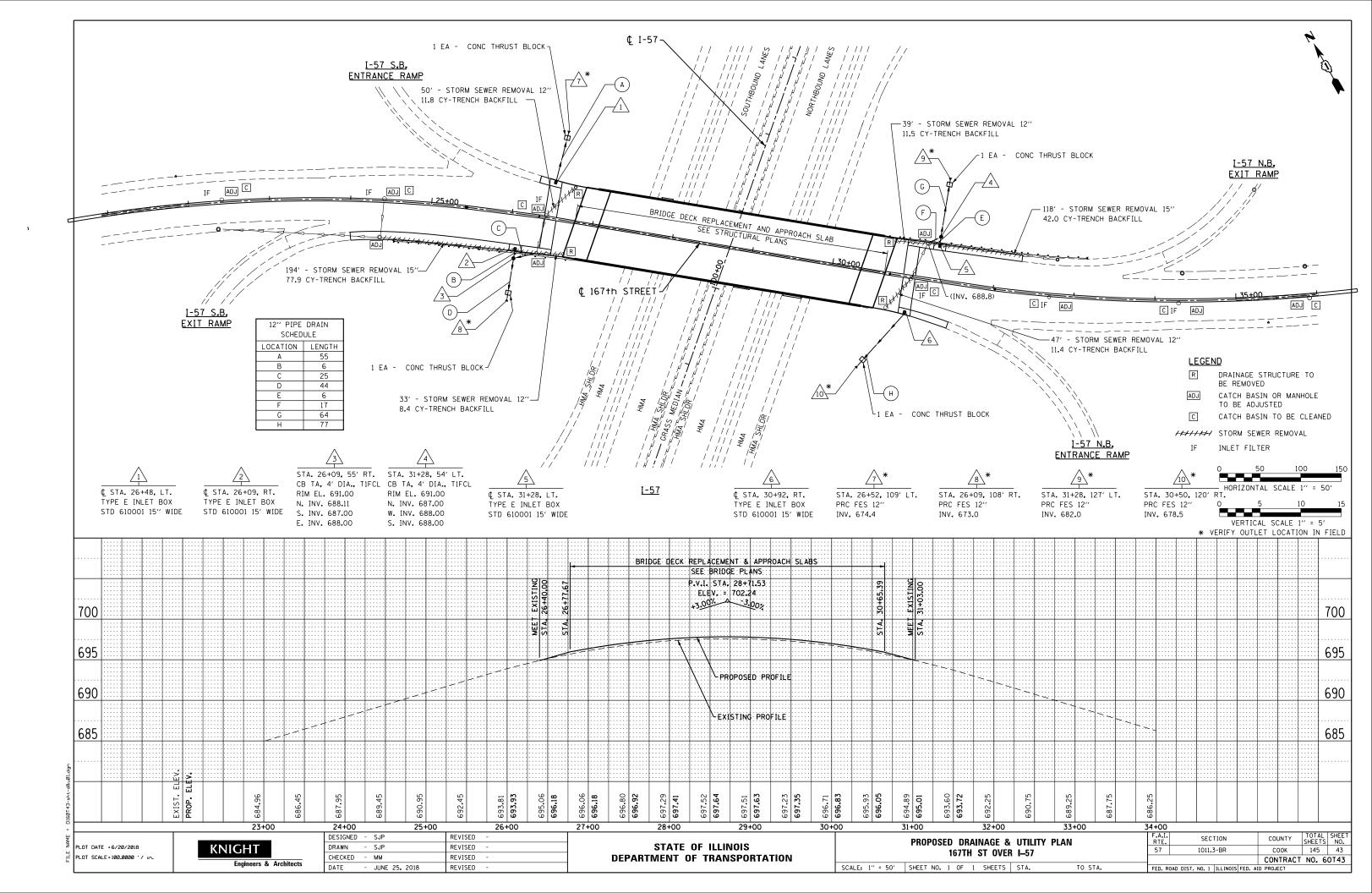
_			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
P,	PANEL DETAILS			ANEL DETAILS 57 1011.3-BR COOK 14						41
					CONTRACT	NO. 6	OT43			
S	STA.	TO STA.	FED. RC	AD DIST. NO. 1 ILLINOIS FED. 4	ID PROJECT					

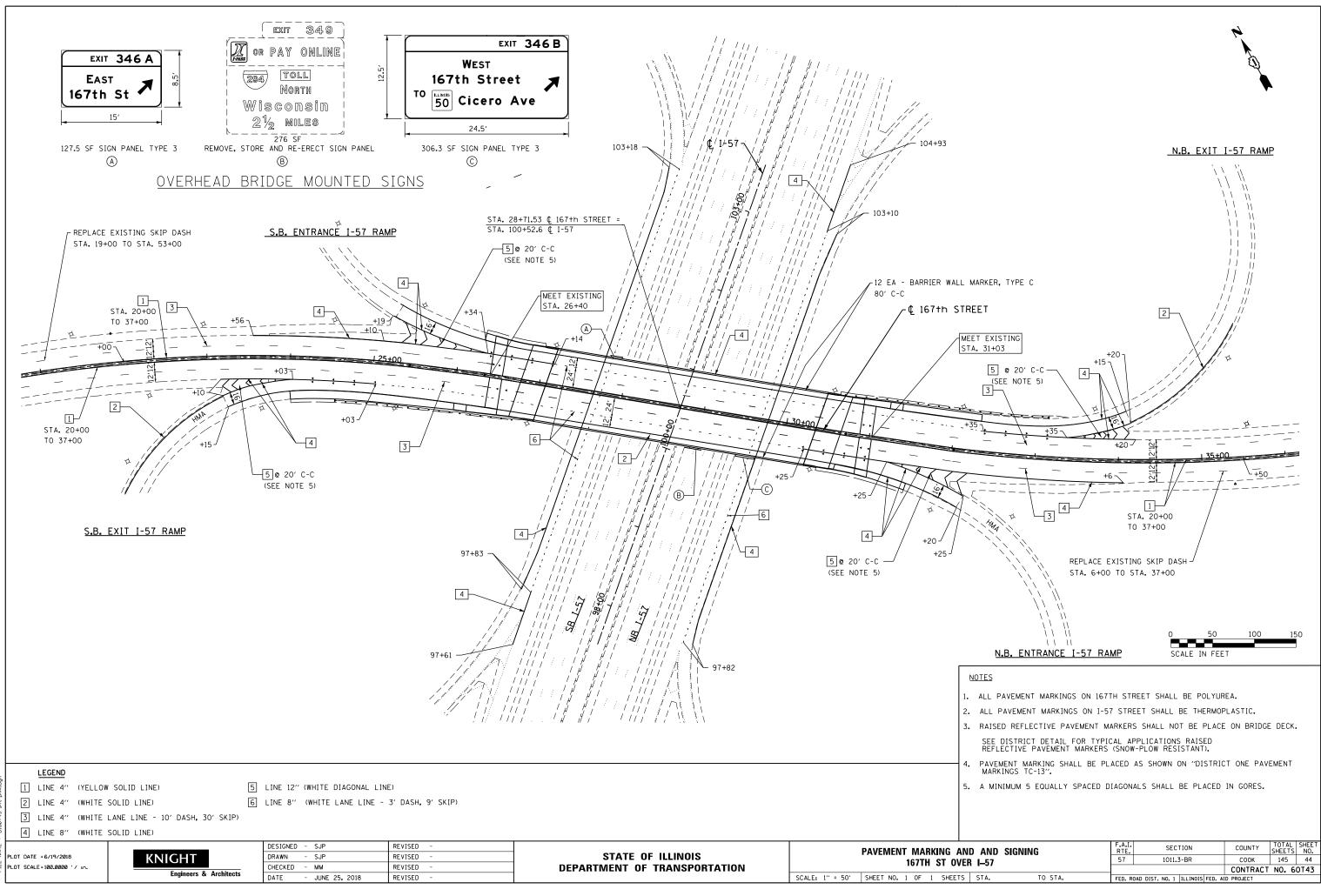


KNIGHT	
Engineers &	Architects

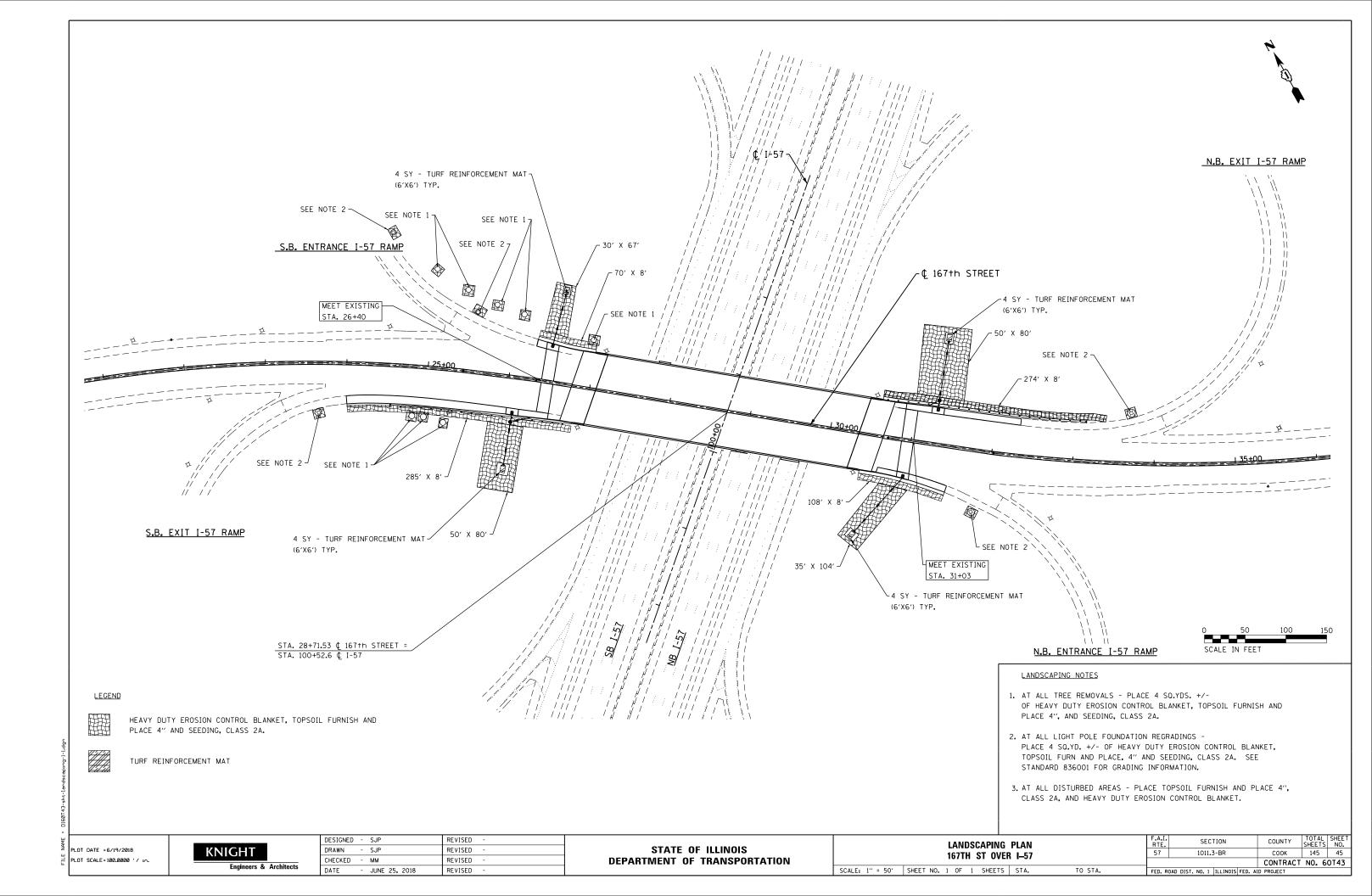
								25.4	8/6 8/6			
Letter	POSI	 	to lowe	r left corr	her			ENGTH	SE	I RIES/SIZ	ĽE	
±4"						SYMBOL	ROT	×	Y	WID	HT	
4" 8"D 6" 8"D						BACKGROUN	DER	TYPE COLC	DR: Ora : AP DR: Bla	SHEET ck/Black	ING	
						BORDER WIE CORNER RAI MOUNTING	DIUS	-	oorary Po			
	ALLOWE		COST ED FOR			SIGN NUMBE WIDTH x HG	⊣T.	3'-0"	AL(O)-3 x 2'-6"	630		

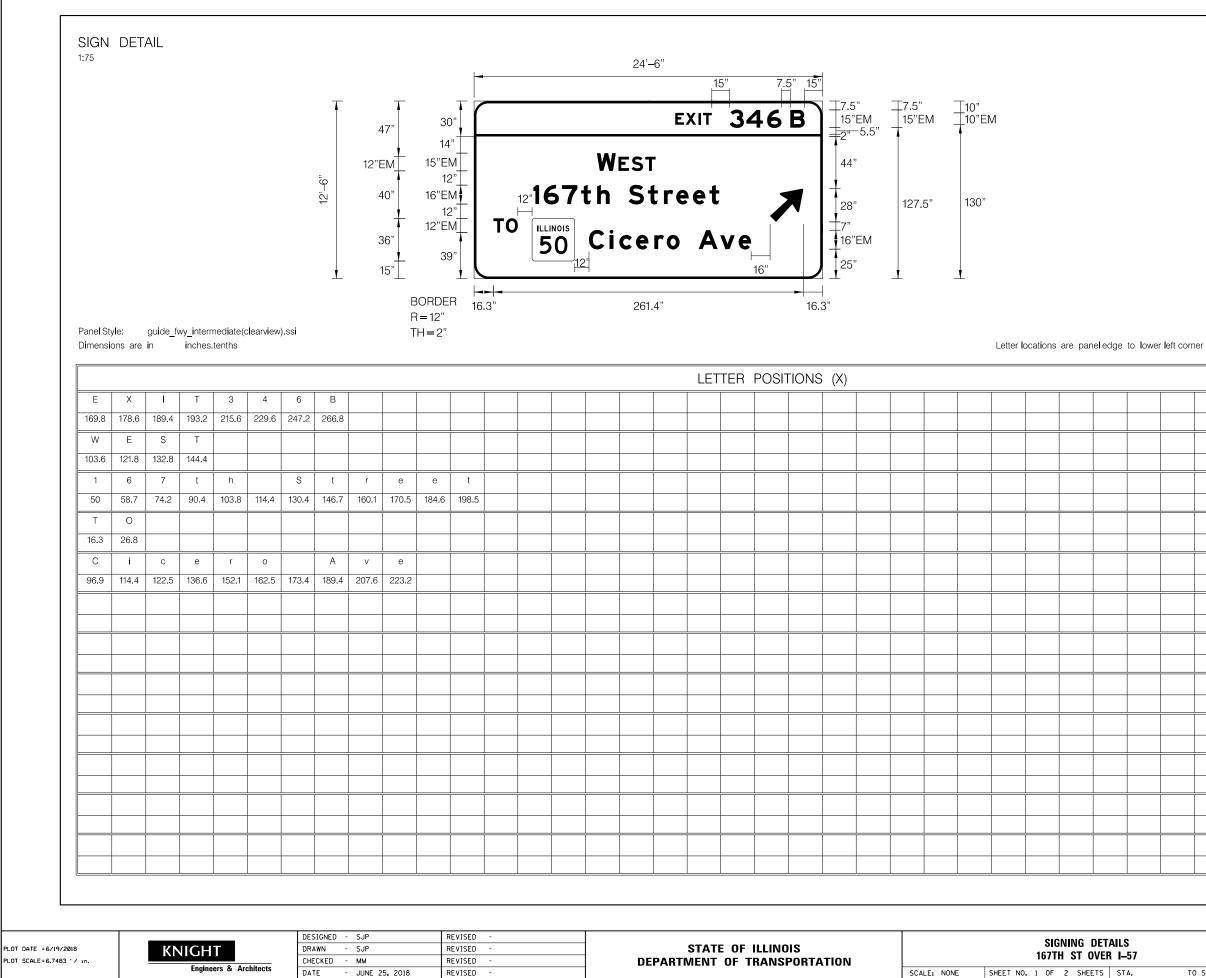
Ρ.	ANEL DETAILS		57	1011.3	i-BR	COOK	145	42
						CONTRACT	NO. 6	0T43
S	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		





N) AND	ND AND SIGNING		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FR	ER I-57		57	1011.3-BR	СООК	145	44
	1.07		_		CONTRACT	NO. 6	OT43
s	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		





REVISED

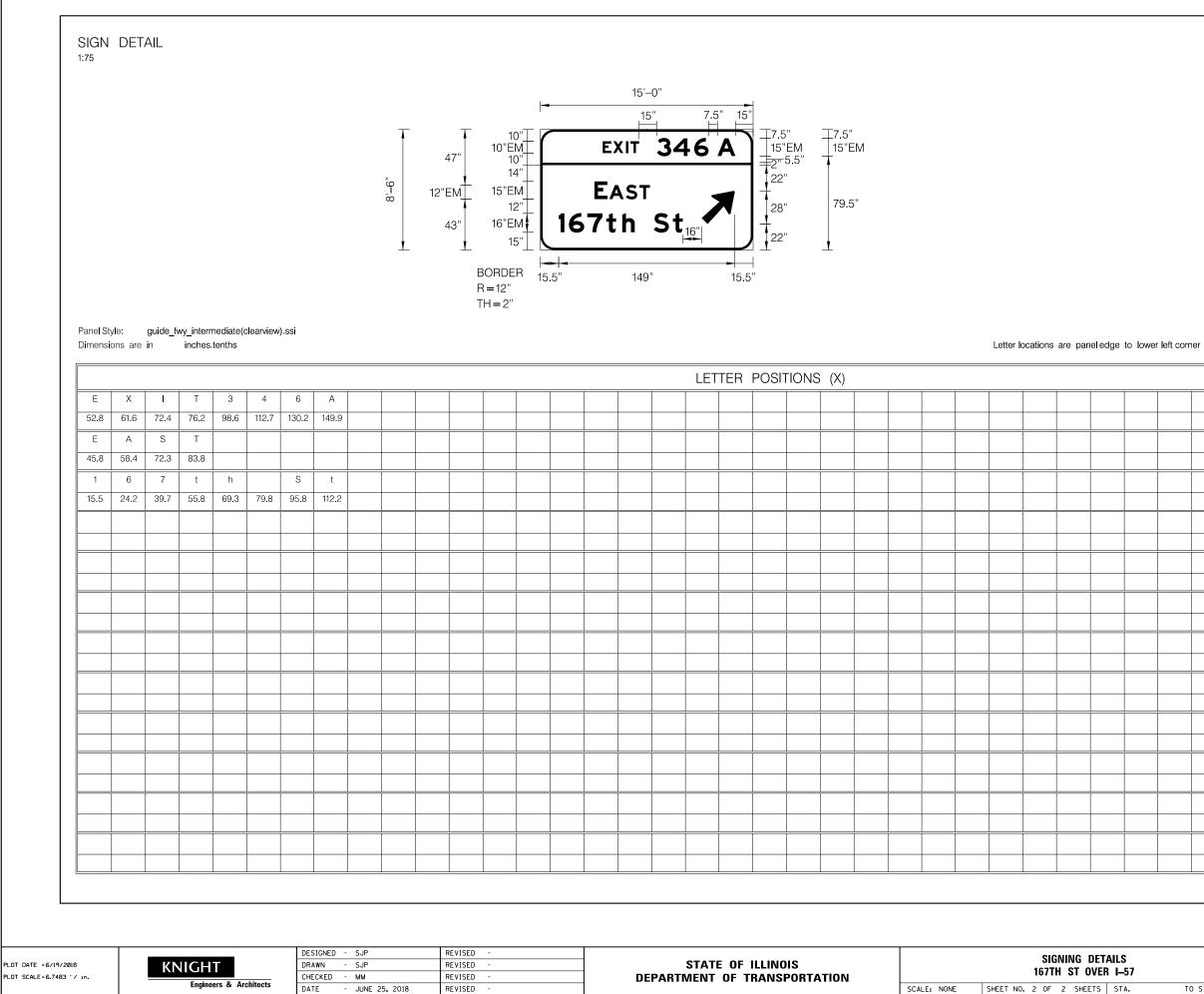
PLOT SCALE = 6.7483 ' / in.

SIGN NUMBER	SIGN C
WIDTH X HGHT.	24'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ sheeting
	COLOR: White/White

ROT	Х	Y	WID	HT
315	249.7	48	22.3	35.6
0	48.9	15	36	36
	315	315 249.7	315 249.7 48	315 249.7 48 22.3

		LENGTH		SERIES/SIZE
			EM	2000
		109.2	10,15	
			EM	2000
		49.6	15,12	
				2000
		156.8	16⁄12	
				2000
		20.6	12	
			EM	2000
		136.8	16⁄12	

:T/	AILS		F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ER I–57		57	1011.3-BR		СООК	145	46	
_	,					CONTRACT	NO. 6	OT43
5	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS F	ED. AI	D PROJECT		

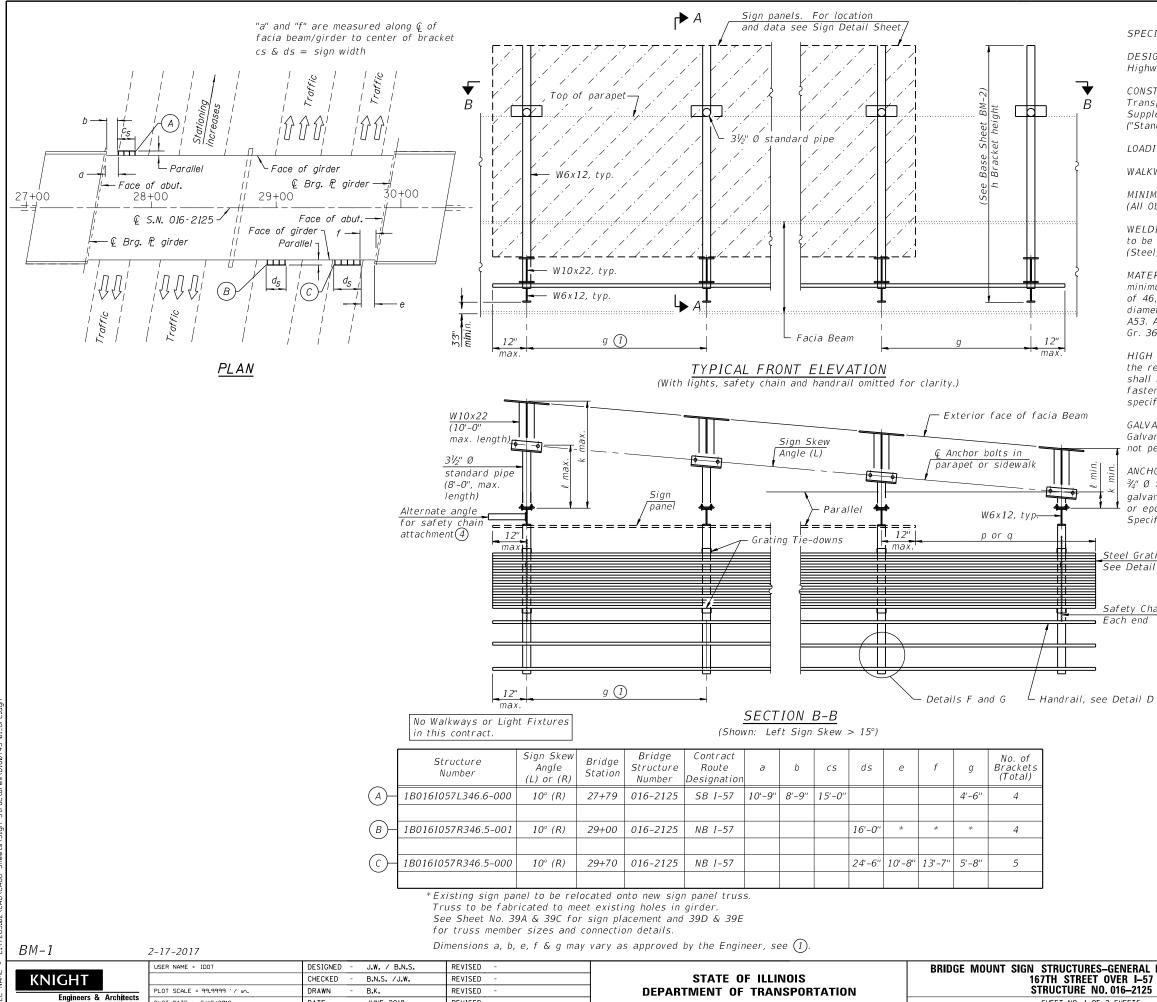


SIGN NUMBER	SIGN A				
WIDTH X HGHT.	15'–0" x 8'–6"				
BORDER WIDTH	2"				
CORNER RADIUS	12"				
MOUNTING	Overhead				
BACKGROUND	TYPE: ZZ Sheeting				
	COLOR: Green				
LEGEND/BORDER	TYPE: ZZ Sheeting				
	COLOR: White/White				

SYMBOL	ROT	Х	Y	WID	ΗT
AR_Type A	315	136.5	22	22.3	35.6

LENGTH SERIES/SIZE								
							EM 2000	
						112.2	10,15	
							EM 2000	
						47	15,12	
							EM 2000	
						105	16/12	

ETAILS ER I–57			F.A. RTE					COUNTY	Y	TOTAL SHEETS	SHEET NO.	
			57			1011.	3-BR		СООК		145	47
_									CONTRA	AC T	NO. 6	0T43
S	STA.	TO STA.	FED.	ROAD	DIST.	NO. 1	ILLINOIS	FED. A	ID PROJECT			



PLOT DATE = 6/19/2018

DATE

JUNE 2018

REVISED

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for \oslash Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs, concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50,).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, $\frac{3}{4}$ " Ø x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

Steel Grating See Detail D

Safety Chain

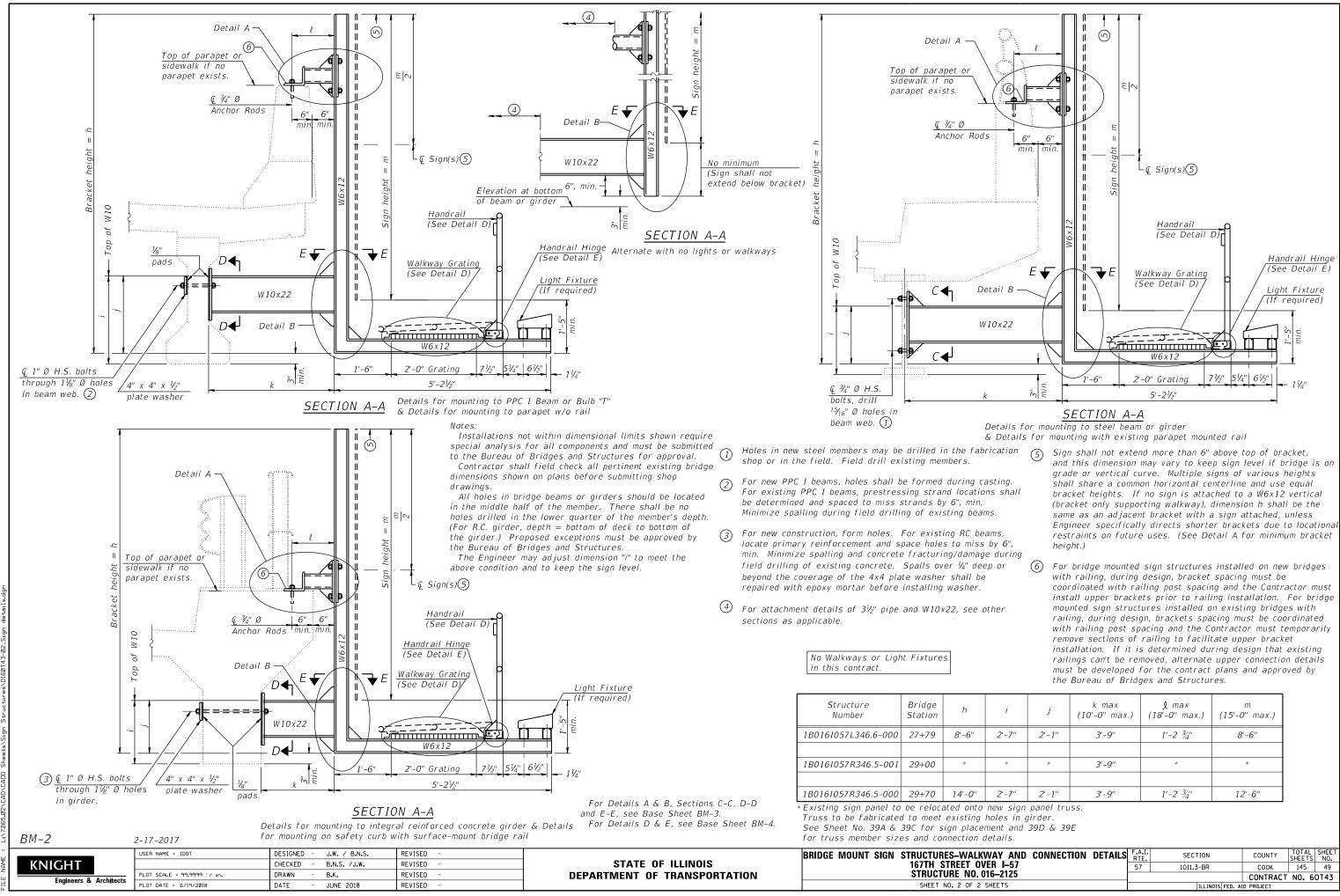
- Bracket spacing $g \leq 6'-0''$, max. Spacing shall be uniform if (1)possible but may vary $\pm 6''$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- Any design modifications shall be based on the current version of applications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- Unit price includes grating, handrail, brackets, supports, (3) anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- (1) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

③ OVERHEAD SIGN STRUCTURE- BRIDGE MOUNTED	Foot	56	
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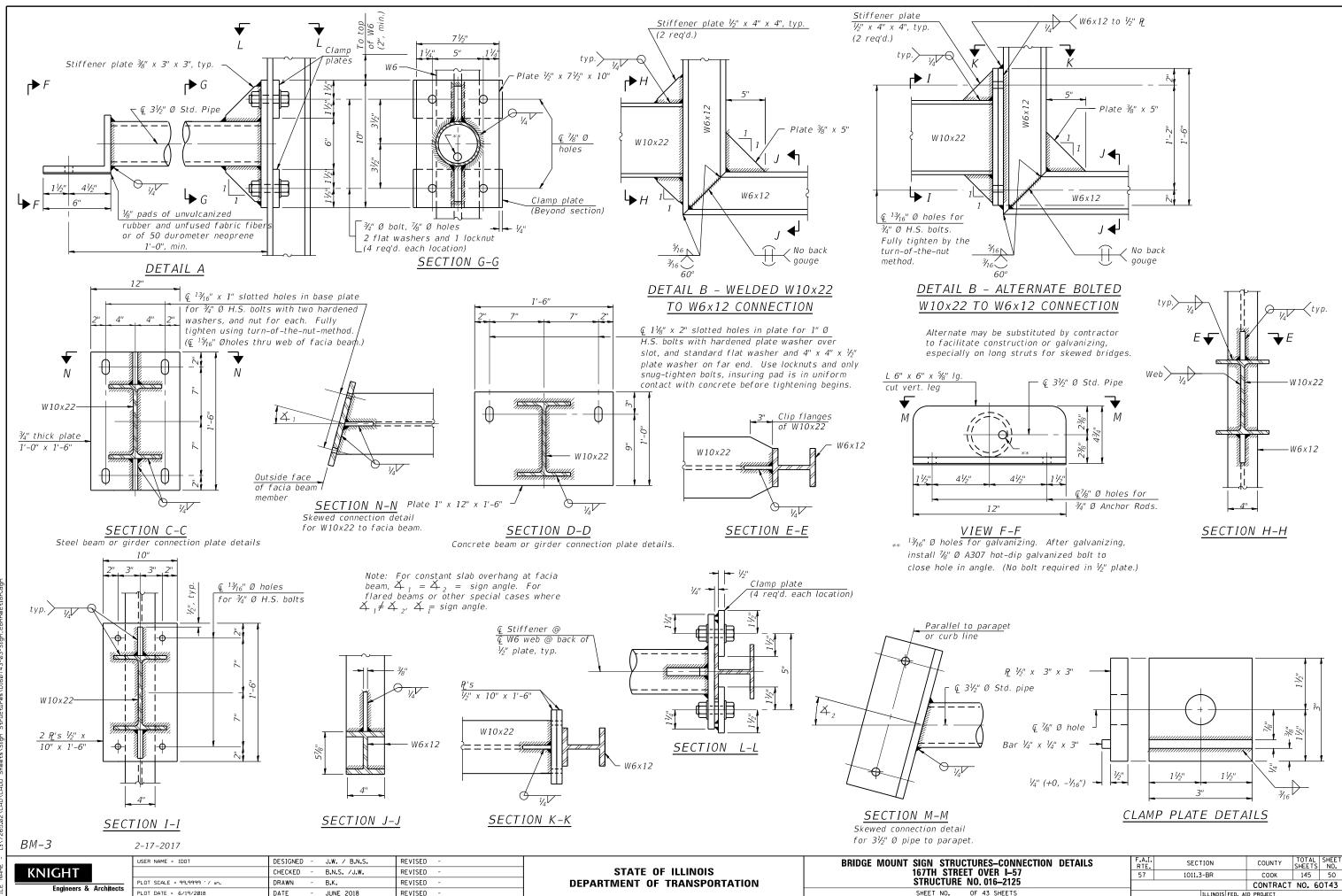
GENERAL PLAN & ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
VER I-57		1011.3-BR	СООК	145	48			
016–2125			CONTRACT	NO. 6	0T43			
SHEETS	ILLINOIS FED. AID PROJECT							

SHEET NO. 1 OF 2

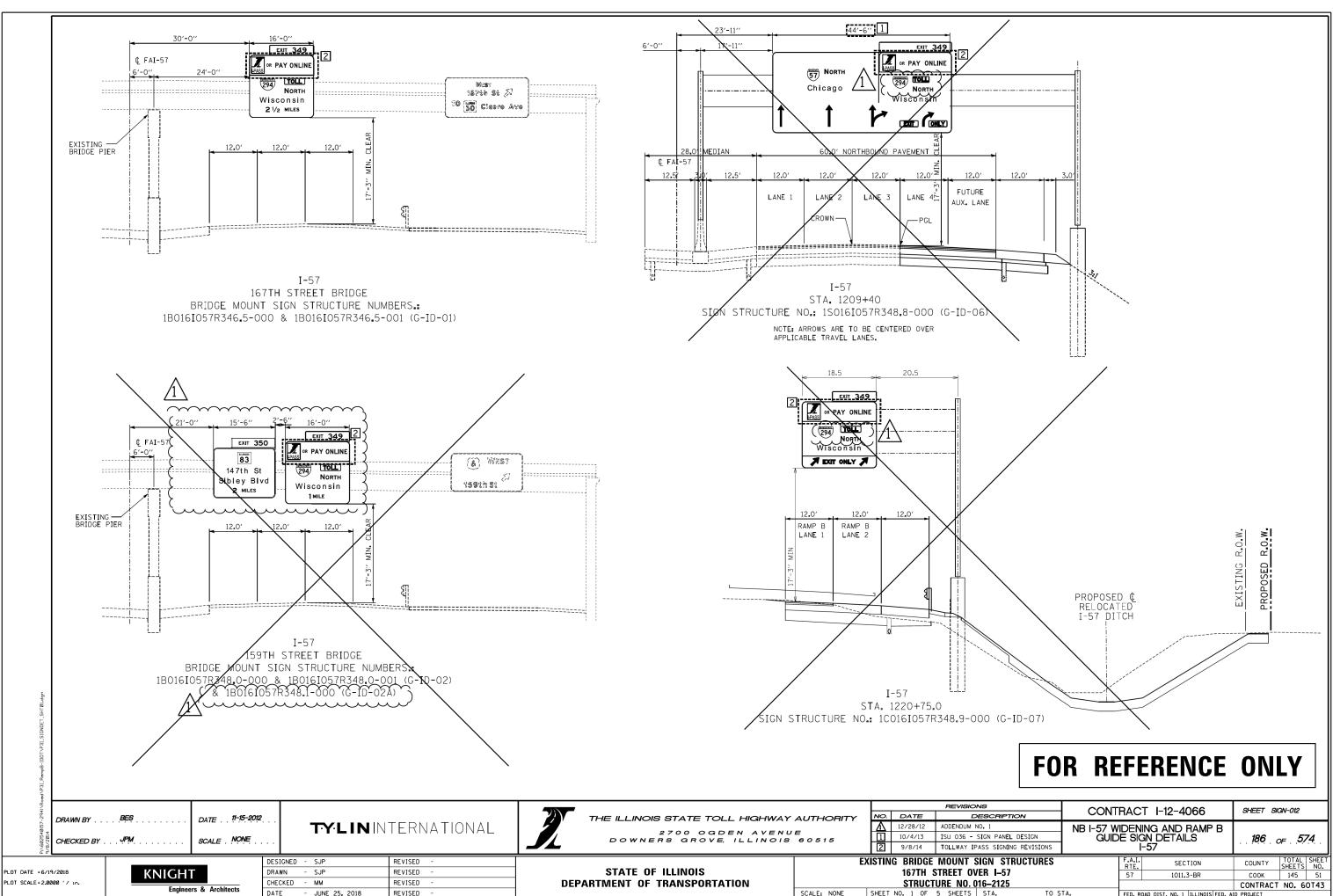


i	j	k max (10'-0" max.)	∫ max (18'-0" max.)	m (15'-0" max.)
2'-7''	2'-1''	3'-9''	1'-2 ¾''	8'-6''
*	*	3'-9''	*	*
2'-7''	2'-1''	3'-9''	1'-2 ¾''	12'-6''

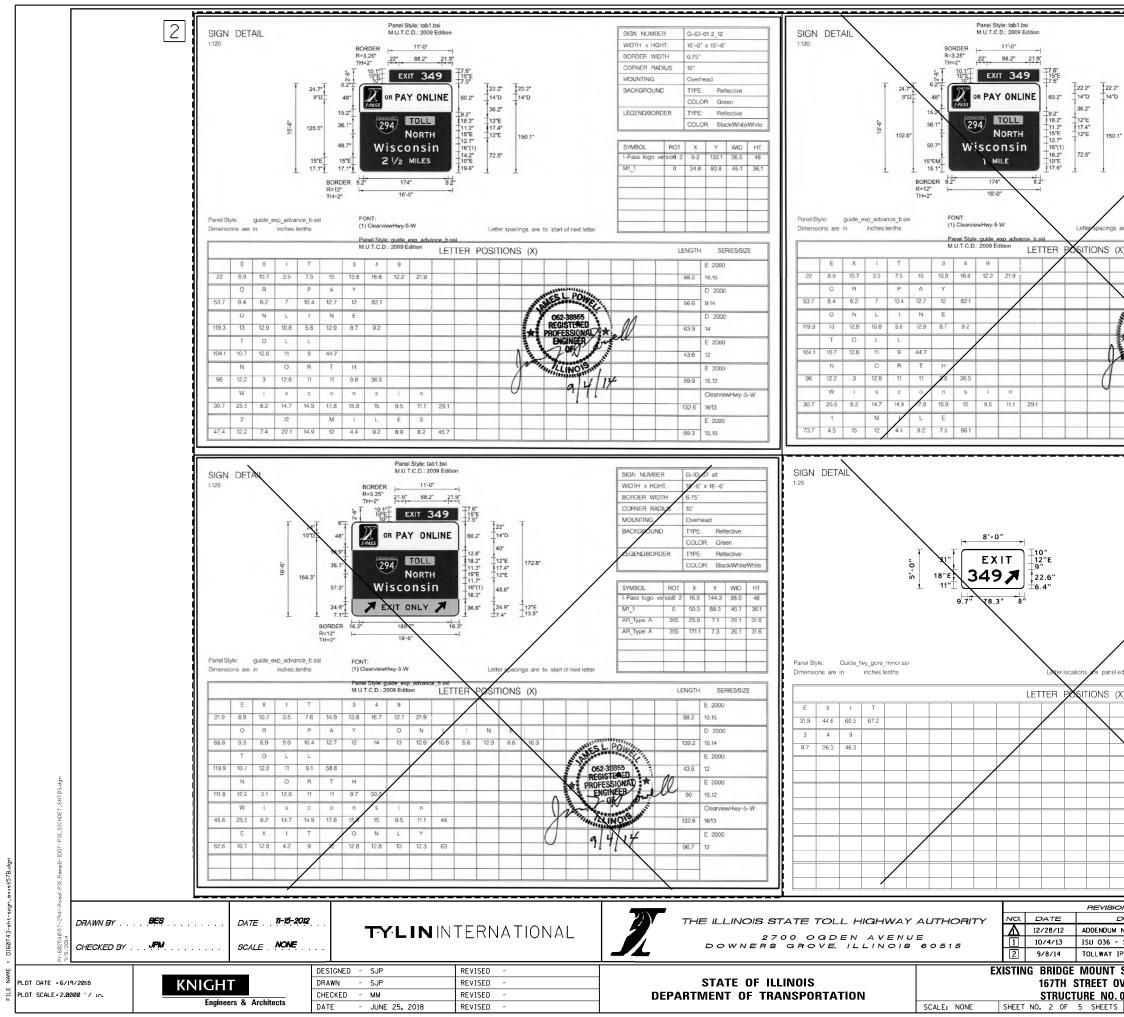
KWAY AND CONNECTION DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER I-57	57	1011.3-BR	СООК	145	49
. 016–2125			CONTRACT	NO. 6	OT43
2 SHEETS		ILLINOIS FED. AI	D PROJECT		



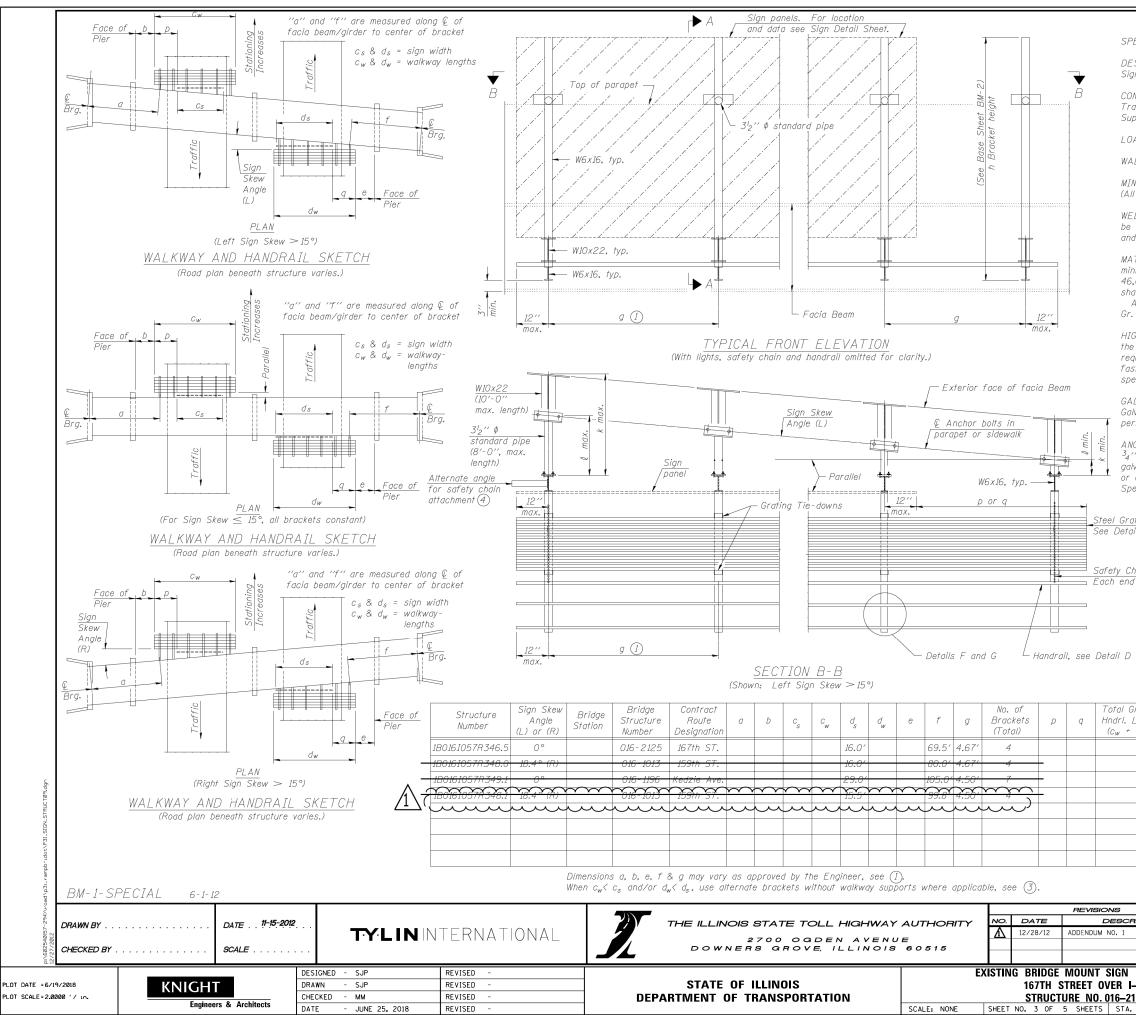
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3-BR	СООК	145	50
		CONTRACT	NO. 6	OT43
	ILLINOIS FED. AI	D PROJECT		
	RTE.	RTE. SECTION 57 1011.3-BR	RTE.SECTIONCOUNTY571011.3-BRCOOK	RTE. SECTION COUNTY SHEETS 57 1011.3-BR COOK 145 CONTRACT NO. 6



FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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	IGN NUMBER		3-11-01						
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	ORNER RAD	1	0"				1		
	OUNTING		Overhead						
В	ACKGROUND	-	TYPE:	Refle		_	l i		
1	EGEND/BORD		COLOR:	Gree					
		-	COLOR:		k/White/	White			
· / -					,				
	YMBOL Pass logo ve	ROT	X 9.2 1	Y 132.1	WID 38.5	НТ 48			
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CONCLETINOT BUTCHER		59	9.9 15						
9/4/14			Cle	earview	/Hwy-5-	W	6		
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DESCRIPTION							1066	SHEET S	vG/V-0/3
NO. 1	NB	I-57	WIDE	ENIN	۱ <u>G</u>	<u>AND</u>	RAMP B		
· SIGN PANEL DESIGN IPASS SIGNING REVISIONS	-	GUI	DE S		N DI 57	ETA	ILS	. 189	<i>o</i> F . 574 .
	1		15		5/				TOTAL SHEET
SIGN STRUCTURES IVER I–57			R	TE.			CTION	COUNTY	SHEETS NO.
016-2125			5	7		101	1.3-BR		145 52
	STA.								T NO. 60T43



GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

 $\textit{MINIMUM CLEARANCE: 3^{\prime\prime}}$ greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50,).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO MI64 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, ${}^{3}_{4}{}^{\prime\prime} \phi \times 12^{\prime\prime}$ long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9''.

eel Grating	
e Detail D	
fetv Chain	

 Bracket spacing g ≤ 6'-0'', max. Spacing shall be uniform if possible but may vary ±6'' to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.

(2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.

(3) Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.

Total Grating/	
Hndrl. Lengths	
$(C_W + d_W)$	
	-

(4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

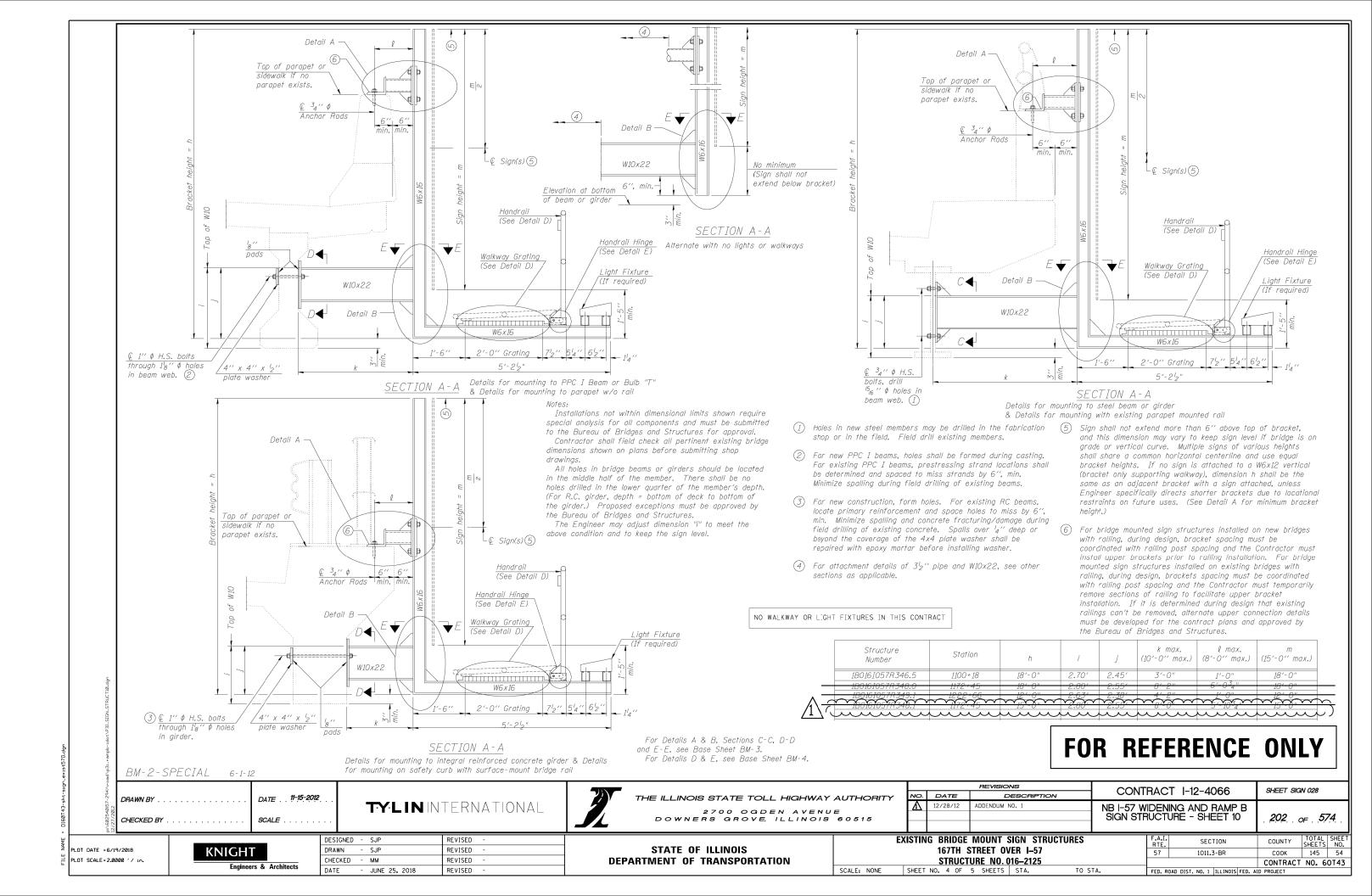
FOR REFERENCE ONLY

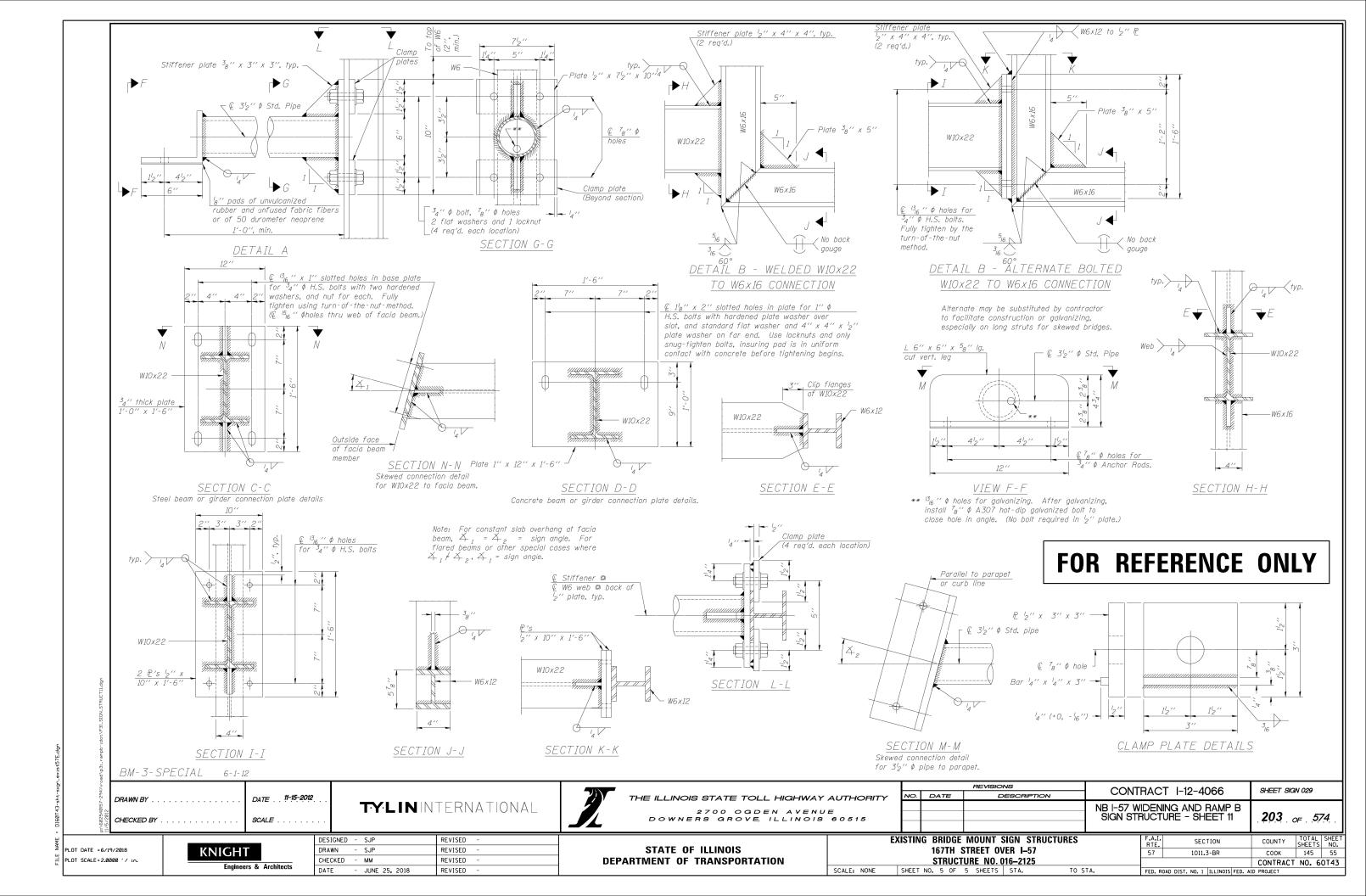
TOTAL BILL OF MATERIAL

/1\

) OVERHEAD SIGN STRUCTURE-

					<u> </u>	7
ONS	CONTRA	CT I-12-4	066	SHEET SIGI	N 027	
DESCRIPTION	CONTIA		000	0.7227 0.00		
NO. 1	NB -57 WIDE SIGN STRUC		. 201 . c	o r 5 7	74	
SIGN STRUCTURES	F.A. RTE		TION	COUNTY	TOTAL SHEETS	SHEET NO.
VER I–57	57	1011.	3-BR	СООК	145	53
016–2125				CONTRACT	NO. 6	0T43
STA. TO S	TA. FED.	ROAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		





GENERAL NOTES – UNDERPASS LIGHTING

- 1. SPLICING OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
- 2. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 3. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT (708) 524-2145.
- 4. ALL WORK SHALL CONFORM TO THE LATEST IDOT STANDARDS, IDOT DISTRICT 1 STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 5. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, UL LISTED AND LABELED.
- 6. ALL CONDUITS SHALL BE SEALED.
- 7. ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
- 8. ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
- 9. CIRCUITS SHALL BE TESTED PER SPECIFICATION.
- 10. THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMITICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- 11. ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
- 12. THE EXISTING LIGHTING SYSTEM VOLTAGE IS 240/480 VOLT, 1-PHASE.
- 13. THE CONTRACTOR TO VERIFY ALL OF THE DATA SHOWN ON THE CONTRACT PLANS AND REFERENCE DRAWINGS WHICH WOULD AFFECT THE CONTRACTOR'S WORK UNDER THIS CONTRACT OR THE OPERATION OF THE EXISTING UNDERPASS, ROADWAY AND SIGN LIGHTING SYSTEMS.
- 14. GROUNDING CONDUCTORS SHALL BE CONTINUOUS.
- 15. THE ELECTRICAL MATERIALS MUST BE NEW AND THE TYPE AND KINDS APPROVED BY THE FOLLOWING ORGANIZATIONS:
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)
 - UNITED STATES DEPARTMENT OF TRANSPORTATION (U.S. D.O.T.)
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
 - UNDERWRITERS LABORATORY (UL)
 - AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
- 16. EXPANSION ANCHORS (THREADED INSERTS) SHOULD BE A MINIMUM OF 2" LONG AND HOT DIPPED GALVANIZED AS MANUFACTURED BY PARABOLT, KWIK BOLT, OR WEJ-IT.
- 17. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE PRIOR TO INSPECTION AND APPROVAL BY THE ENGINEER ANY MATERIAL AND FOURPMENT DELIVERED TO THE IOR SITE VIOLATING THE ABOVE PROCEDURE SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- 18. FOR REFERENCE DRAWINGS AND SPECIFICATIONS, REFER TO THE IDOT DISTRICT 1 STANDARD DRAWINGS AND THE SUPPLEMENTAL SPECIFICATIONS TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS.

LIGHTING SHEET INDEX

- LEGEND, SYMBOLS, ABBREVIATIONS, SCHEDULE OF QUANTITIES & GENERAL NOTES LT-01
- LT-02 REMOVAL PLAN
- LT-03 PROPOSED UNDERPASS LIGHTING PLAN
- LT-04 PARTIAL WIRING DIAGRAM
- LT-05 EXISTING UNDERPASS LIGHTING WIRING DIAGRAM
- EXISTING ROADWAY LIGHTING WIRING DIAGRAM LT-06
- LT-07 EXISTING ROADWAY LIGHTING PLAN
- EXISTING ROADWAY LIGHTING PLAN LT-08
- LT-09 EXISTING ROADWAY LIGHTING PLAN

IDOT DISTRICT 1 LIGHTING DETAILS

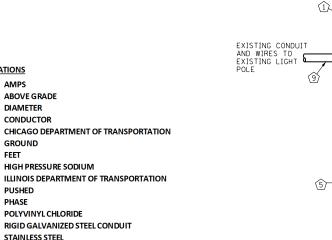
- BE-329 LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL 11 1/2" BOLT CIRCLE LT-10
- LT-11 BE-402 ALUMINUM LIGHT POLE 35'-0" MOUNTING HEIGHT
- LT-12 **BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY** BE-702 MISC. ELECTRICAL DETAILS. SHEET A LT-13
- BE-900 SUSPENSION MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS LT-14
- IDOT STANDARD DETAILS

812001 SHEET 1 OF 3, RACEWAY EMBEDDED IN STRUCTURE

BILL OF MATERIAL - LIGHTING		
	UNIT	QUANTITY
CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	500
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	360
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	14
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	6
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 8"	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,300
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	255
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	510
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 200 WATT	EACH	2
LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EACH	2
LUMINAIRE, UNDERPASS, LED, TYPE A	EACH	14
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	50
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	18
REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	5
PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRE	LS	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9

SYMBOL LIST

DESCRIPTION	PROPOSED	EXISTING TO REMAIN	TO BE REMOVED
UNDERPASS LUMINAIRE, LED, TYPE A, 240V			×
JUNCTION BOX	J		\square
CONDUIT, ATTACHED TO STRUCTURE			$\times \times \times$
CONDUIT, EMBEDDED IN STRUCTURE			
LIQUID TIGHT FLEXIBLE METAL CONDUIT	3		XXX
LIGHTING UNIT, 200 WATT, HPS, 240V, 35' MOUNTING HEIGHT	⊶¤	o−j€)	
UNIT DUCT		—— E ——	
SIGN LUMINAIRE			XX



18) TO UNDERPASS LIGHTING

EXISTING

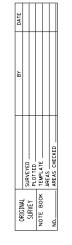
767

1/	ERO AVE GEORGE CONGE Saint Gabriel Catholic Cemetery Da	
		HARDAVE
	FIELDCREST 167.THIST	TEETHST
FOREST AVE		167TH-ST
F AVE		LOCATION OF

LOCATION OF WORK



										LT-01
	DESIGNED - I.E		REVISED -			LEGEND, SYMBOLS, ABBREVIATIONS,	F.A.I. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
SPAAN Lech, Inc.	DRAWN - S.	.D.	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES & GENERAL NOTES	57	1011.3-BR	СООК	145 56
311 South Wacker Drive, Suite 2400 phone: 312.277.8800	CHECKED - W.).	REVISED -	DEPARTMENT OF TRANSPORTATION	0011				CONTRACT	NO. 60T43
Chicago, IL 60606 fax: 312.277.8808 IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com	DATE - JU	NE 25, 2018	REVISED -			SHEET NO. OF SHEETS STA. TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FEE	. AID PROJECT	



AMPS ABOVE GRADE DIAMETER

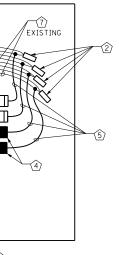
- DIA CONDUCTOR С
- CHICAGO DEPARTMENT OF TRANSPORTATION CDOT
- GND GROUND

ABBREVIATIONS

Α A.G.

- FT FEET
- HPS HIGH PRESSURE SODIUM
- IDOT PUSHED Р
- PH PHASE
- PVC POLYVINYL CHLORIDE
- RIGID GALVANIZED STEEL CONDUIT RGSC
- SS

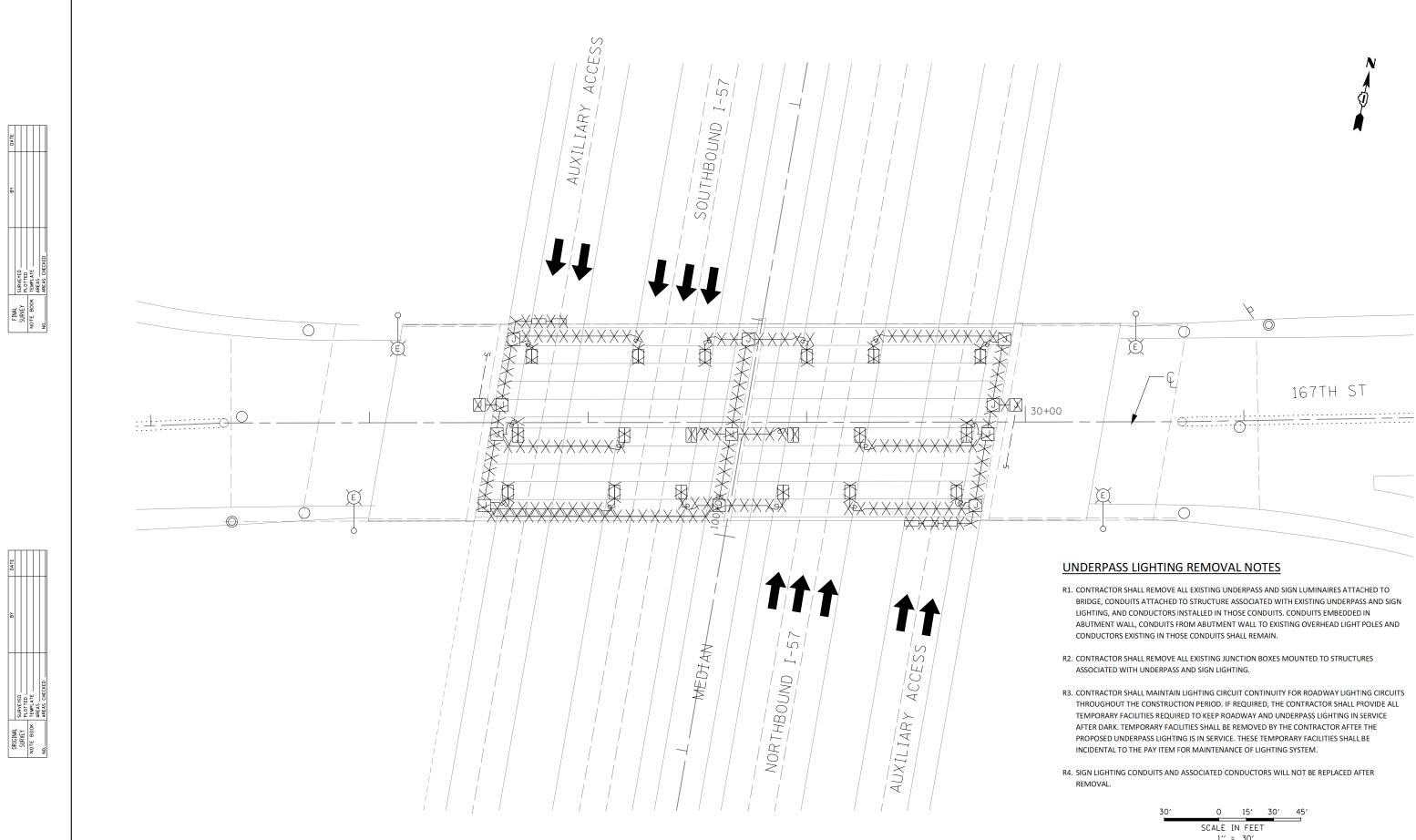
BILL OF MATERIAL -LIGHTING



- TAG NOTES
- PROPOSED 18" x 12" x 8" STAINLESS STEEL JUNCTION BOX REPLACES EXISTING JUNCTION BOX MOUNTED TO TOP OF ABUTMENT
- 2 MECHANICAL SPLICE CONNECT NEW WIRES FOR PROPOSED UNDERPASS LUMINARIES
- (3) OUICK DISCONNECT FUSE KIT WITH 30A FUSE
- (4) QUICK DISCONNECT FUSE KIT WITH SOLID NEUTRAL ASSEMBLY
- (5) #10 COPPER, 600V
- (6) #4 COPPER, 600V
- (7) #6 COPPER GROUND
- (8) 1" PVC COATED RGS CONDUIT
- (9) EXISTING EMBEDDED CONDUIT WITH (6) 1/C #4 AND (1) 1/C #4 GROUND TO REMAIN
- (R) RED
- (B) BLACK
- (N) NEUTRAL
- (G) GROUND

<u>junction box wir</u>ing detail

N.T.S.



	DESIGNED	- I.B.	REVISED -				F.A.I. RTF.	SECTION	COUNTY	TOTAL SHEET	
SPAAN Lech, Inc.	DRAWN	- S.F.D.	REVISED -	STATE OF ILLINOIS		REMOVAL PLAN		57	1011.3-BR	СООК	145 57
311 South Wacker Drive, Suite 2400 phone: 312.277.8800	CHECKED	- W.D.	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO. 60T43
Chicago, IL 60606 fax: 312.277.8808 IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com	DATE	- JUNE 25, 2018	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	

	30′	0	15′	30)'	45′	
	SC#		IN FE = 30'				
			F.A.I. RTE.		SE	CTION	
N			57		1011	.3-BR	

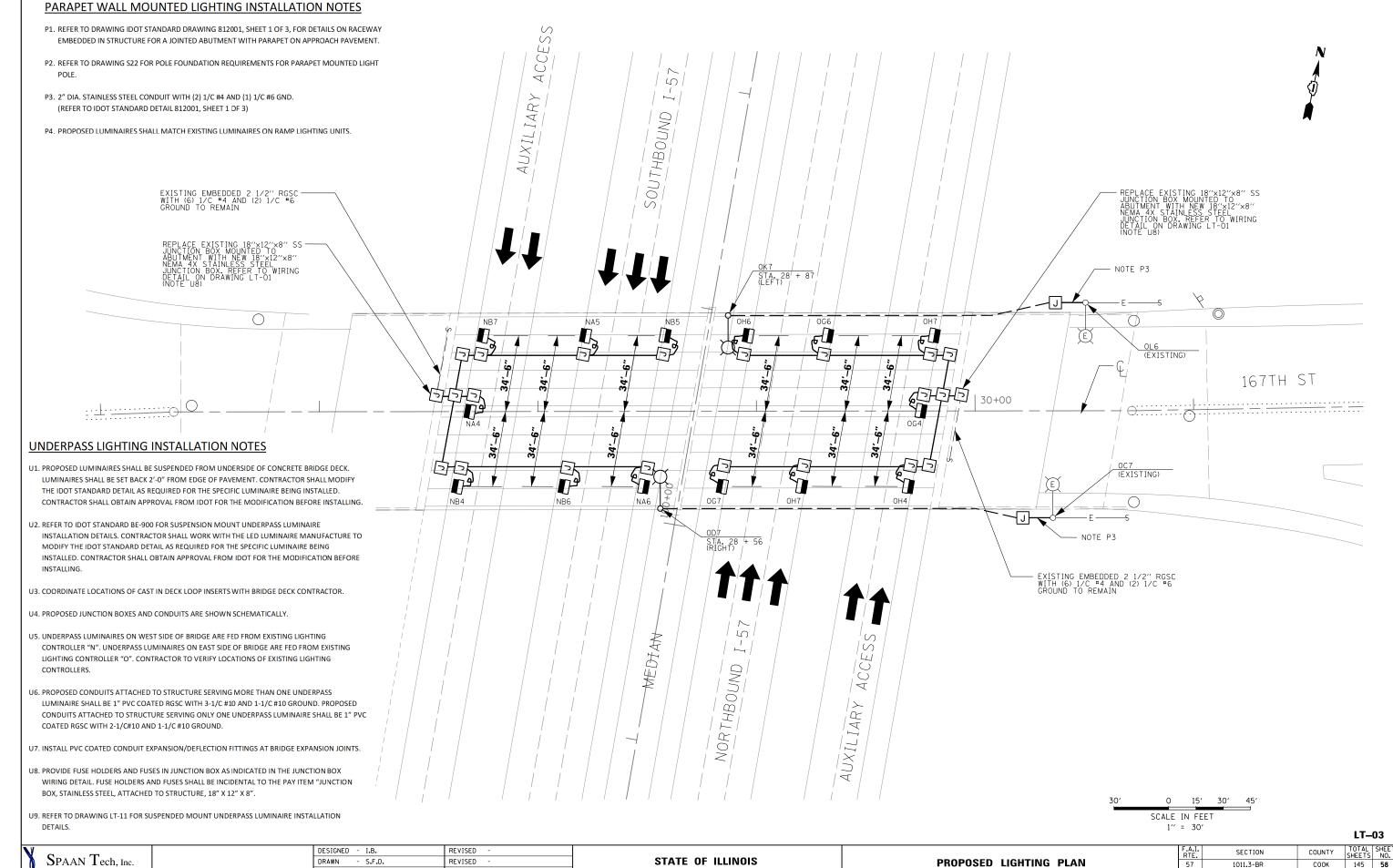
LT-02

SURVEYED PLOTTED -TEMPLATE AREAS CHE

FINAL SURVEY NOTE BOOK

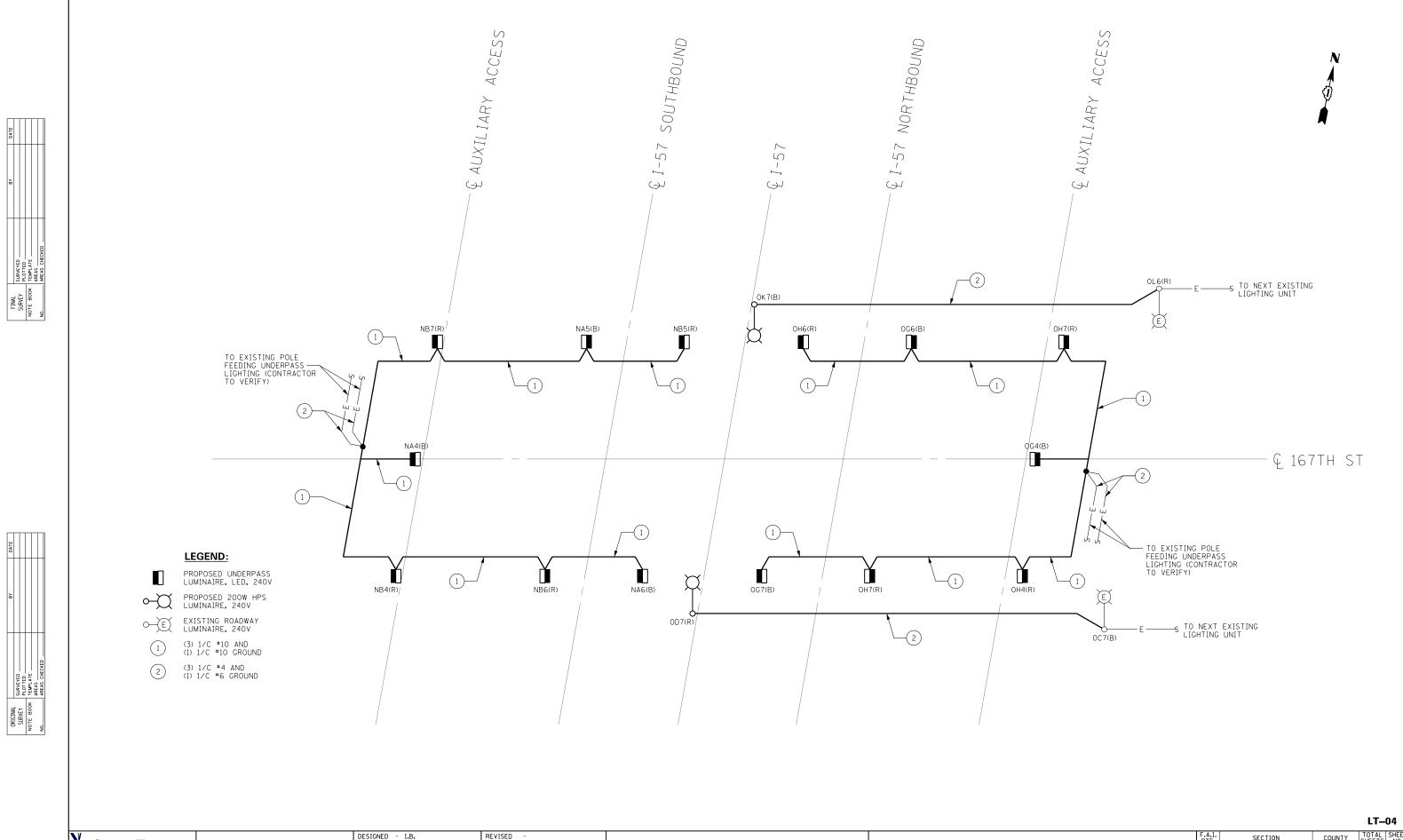
SURVEYED PLOTTED TEMPLATE AREAS

ORIGINAL SURVEY NOTE BOOK



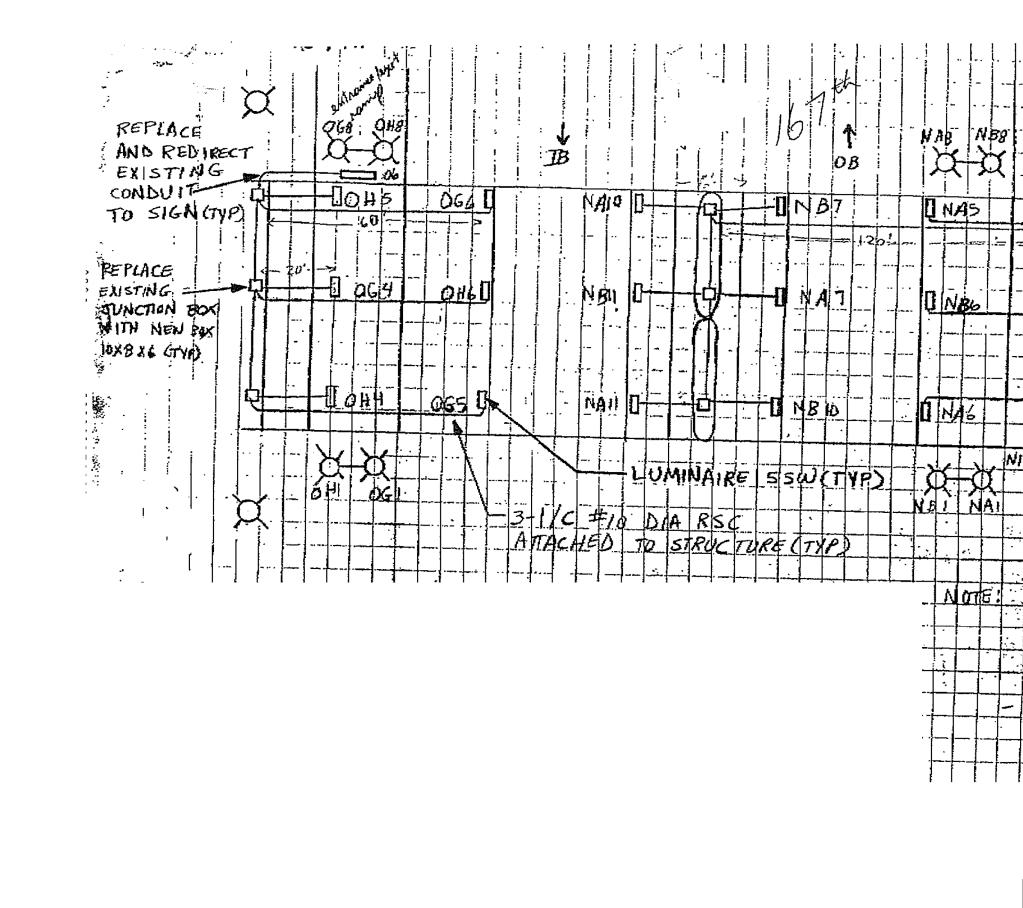
SPAAN Tech, Inc.	DESIGNED DRAWN CHECKED	- 1.B. - S.F.D. - W.D.	REVISED REVISED REVISED		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PROP	OSEI	D LIGH	TIN
Chicago, IL 60606 fax: 312.277.8808 IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com	DATE	- JUNE 25, 2018	REVISED	-		SCALE:	SHEET NO.	OF	SHEETS	S

145 **58** CONTRACT NO. 60T43 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



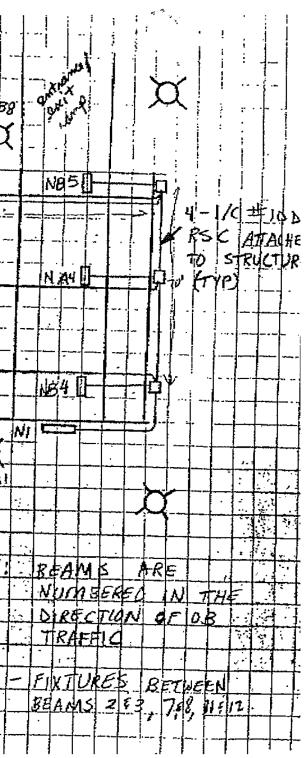
DATE

		DESIGNED - I.B.	REVISED -					F.A.I. RTF.	SECTION	COUNTY	SHEFTS	SHEET NO.
	SPAAN Lech, Inc.	DRAWN - S.F.D.	REVISED -	STATE OF ILLINOIS		PARTIAL WIRING DIAGRAM		57	1011.3-BR	СООК	145	59
	311 South Wacker Drive, Suite 2400 phone: 312.277.8800	CHECKED - W.D.	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 60	JT43
L	Chicago, IL 60606 IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com	DATE - JUNE 25, 2018	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		



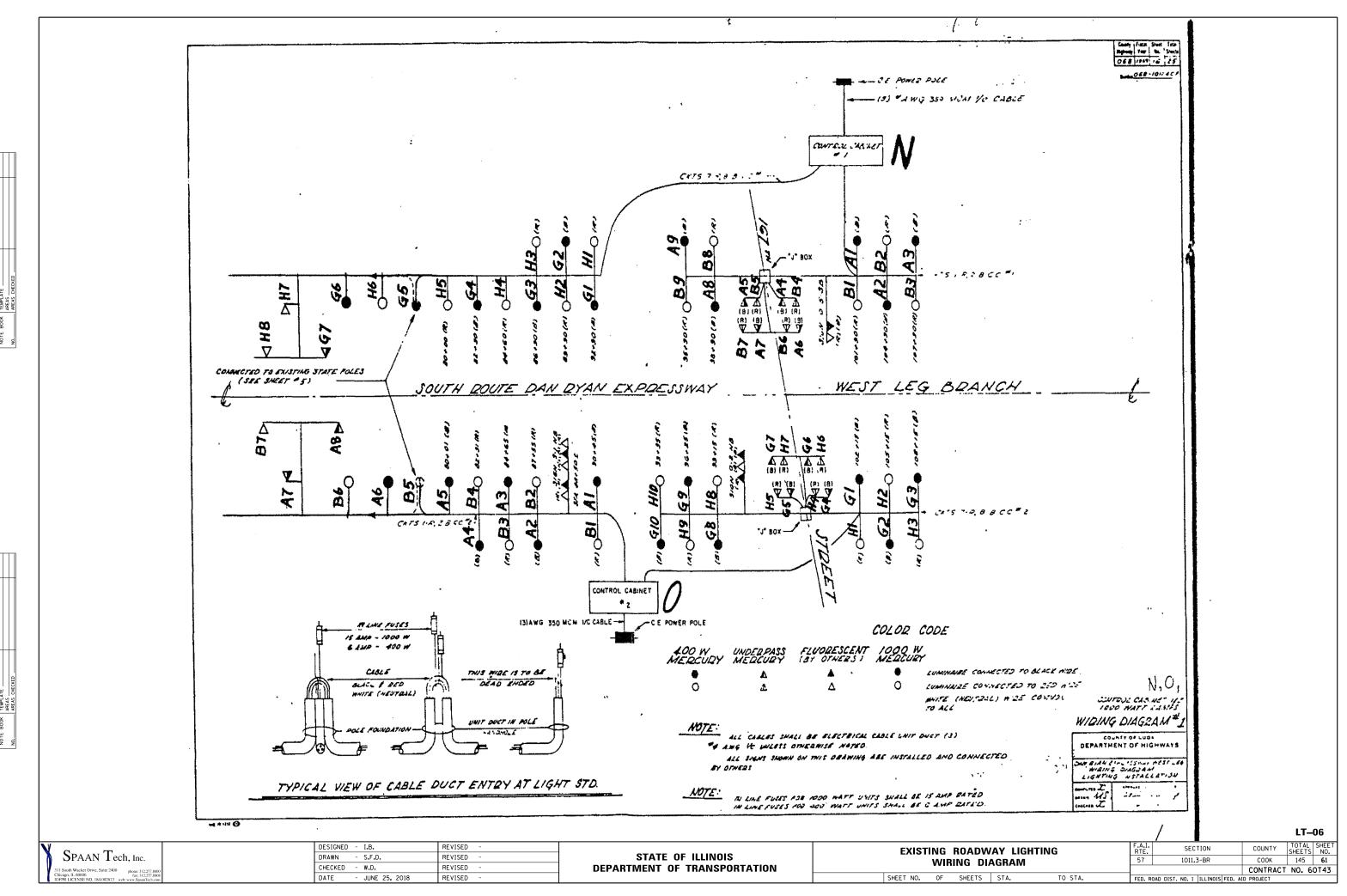
	DESIGNED - I.B.	REVISED -			F.A.I. SECTION	COUNTY TOTAL SHEET
SPAAN Lech, Inc.	DRAWN - S.F.D.	REVISED -	STATE OF ILLINOIS	EXISTING UNDERPASS LIGHTING WIRING DIAGRAM	57 1011.3-BR	COOK 145 60
311 South Wacker Drive, Suite 2400 phone: 312.277.8800	CHECKED - W.D.	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60T43
Chicago, IL 60006 fax: 312.277.8808 IDFPR LICENSE NO. 184.002673 web: www.SpaanTech.com	DATE - JUNE 25, 2018	REVISED -		SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

FINAL BAREYED BY DATE SURVEY POTED BY DATE SURVEY POTED NOTE BOOK TEVELATE NO. AREAS OFFCNED NO.



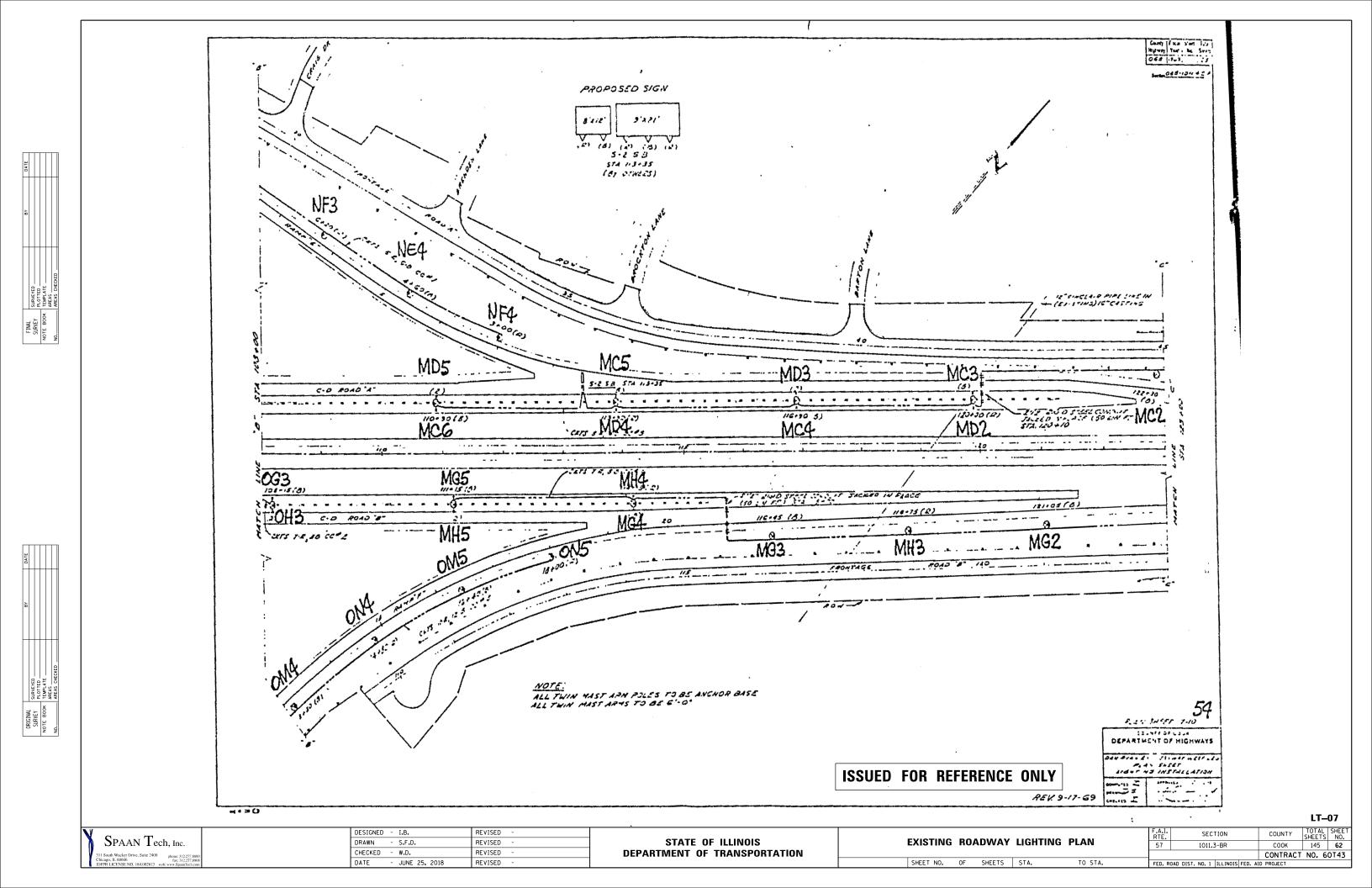
ISSUED FOR REFERENCE ONLY

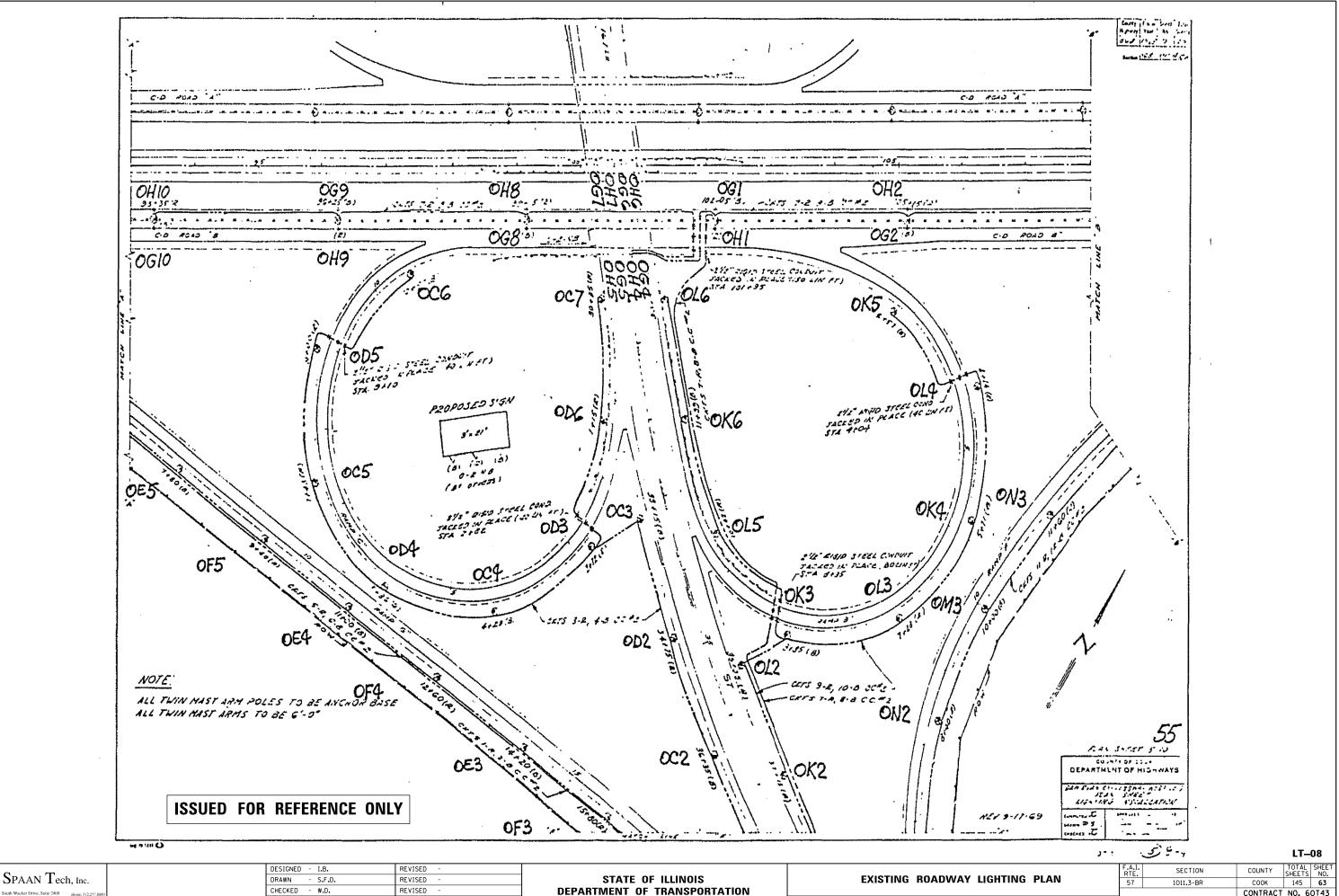
LT-05



FINAL SURVEY SURVEYED -SURVEY PLOTTED -NOTE BOOK TEMPLATE AREAS CHE

SURVEYED PLOTTED TEMPLATE AREAS ORIGINAL SURVEY NOTE BOOK





SURVEYEC PLOTTED TEMPLATI AREAS FINAL SURVEY 40TE BOOK

th Wacker Drive, Suite 2400 phone: 312.2 b, IL 60606 fax: 312.2

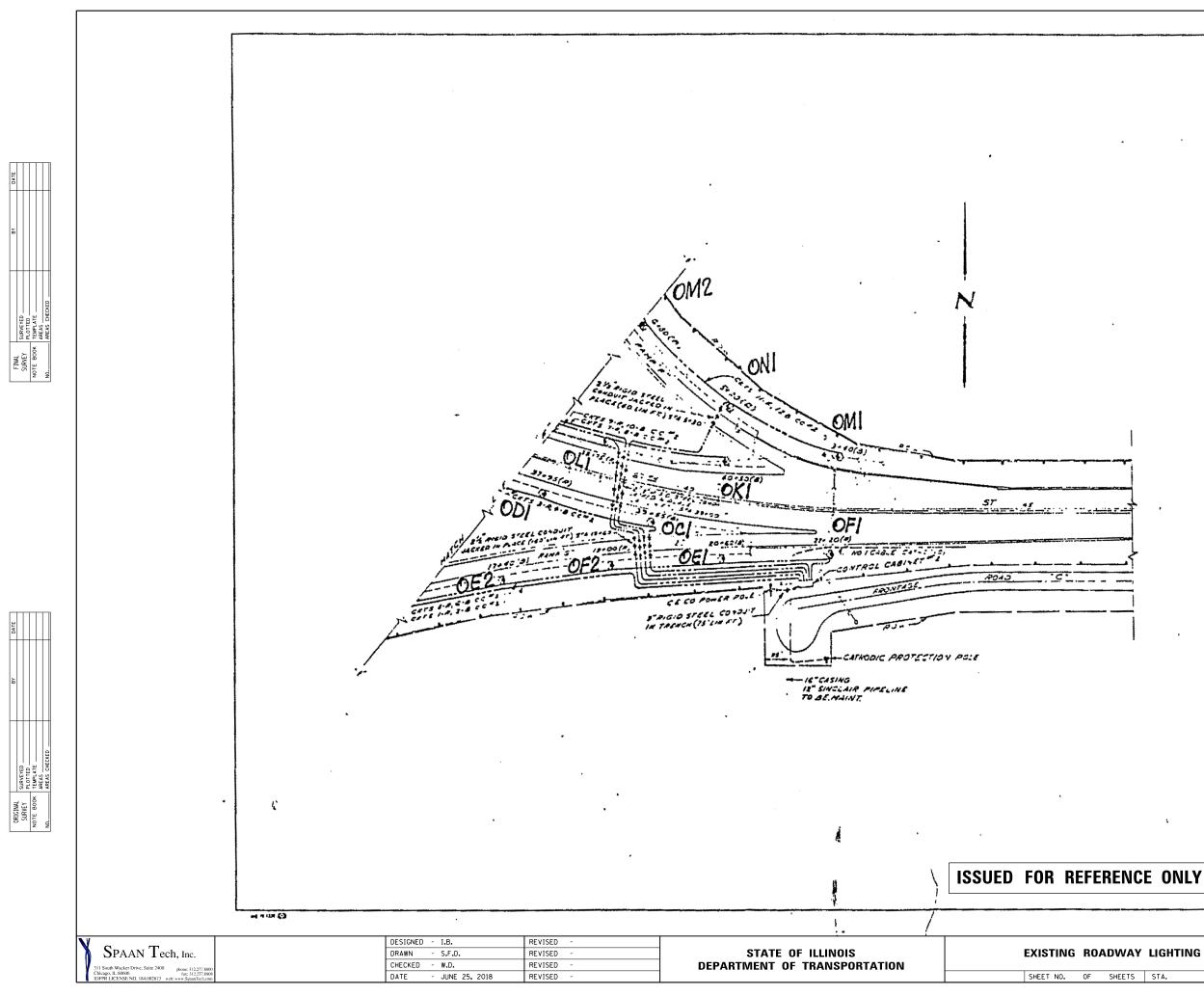
DATE

- JUNE 25, 2018

REVISED

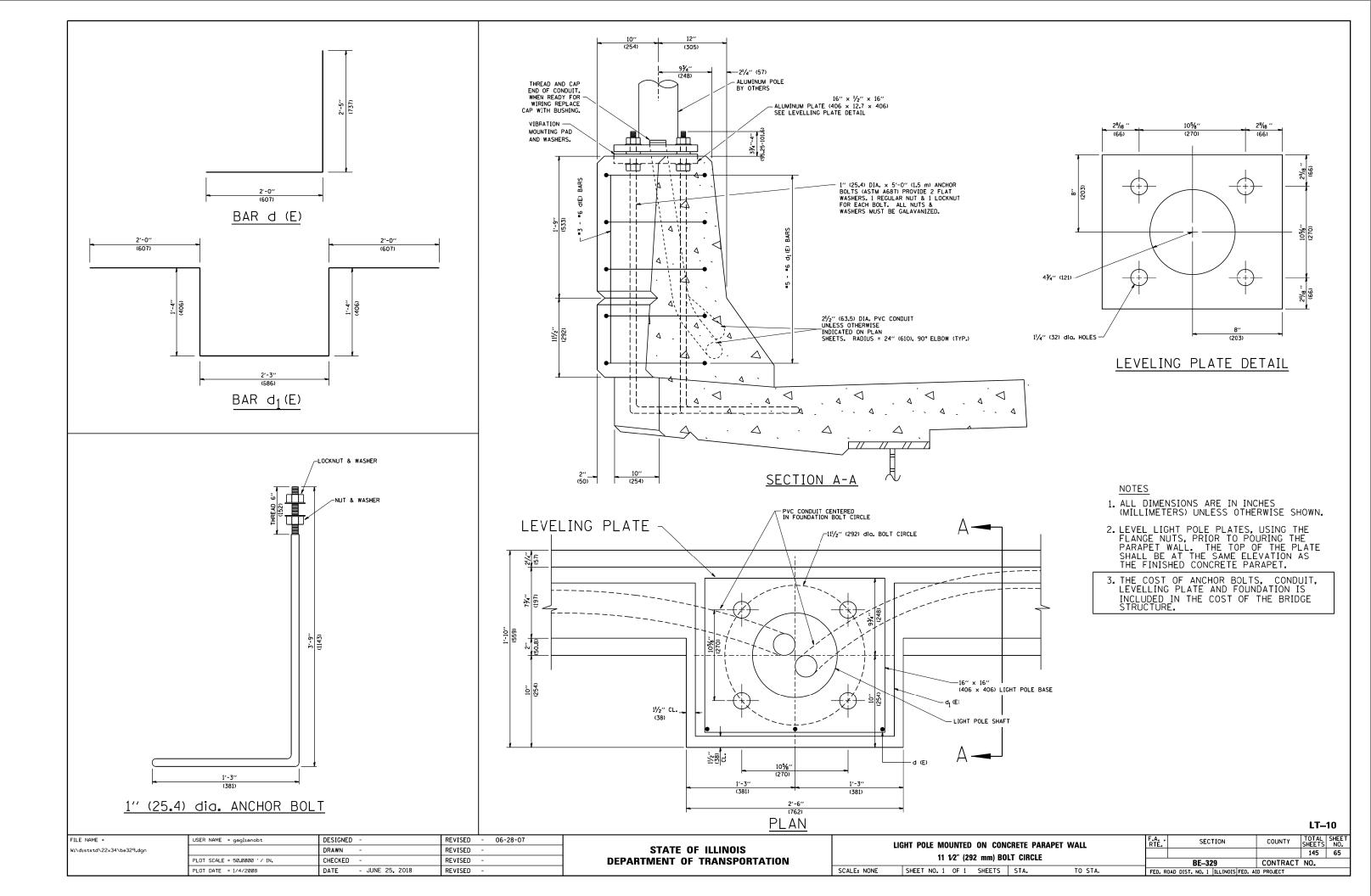
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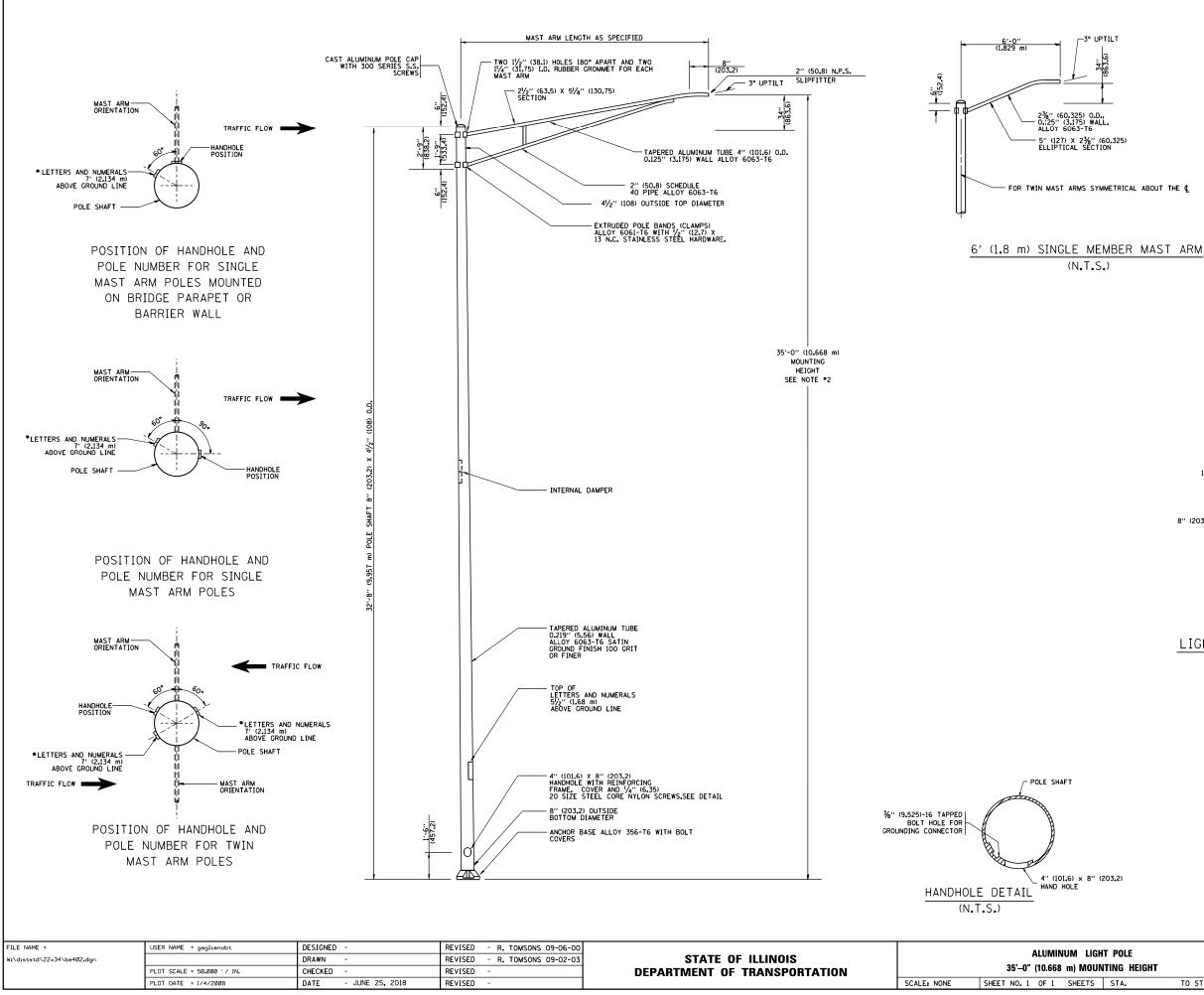
T			57			101	1.3	S-BR			COOK	145		63
											CONTRACT	NO.	60	T43
	STA.	TO STA.	FED.	ROAD	DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT			



Larty Pice Ver 1. ----56 PLAN SHEET SHE COUNTY ST 2004 DEPARTMENT OF HIGHWAYS 244 4144 6184555224 28685263 PLAN SAEEF LIGAPING .45842LAPID 200 X LT–09 COUNTY TOTAL SHEET F.A.I. SECTION

	LIGHTING PLAN		RTE.		SEU	TUN		COUNTY	SHEETS	NO.
r			57	1011.3-BR			COOK	145	64	
								CONTRACT	NO. 6	0T43
	STA.	TO STA.	FED. R	DAD DIST.	NO. 1	ILLINOIS	FED. AI	D PROJECT		

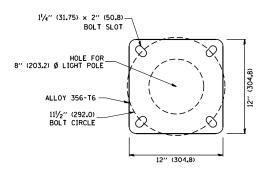




- 34"

- NOTES:

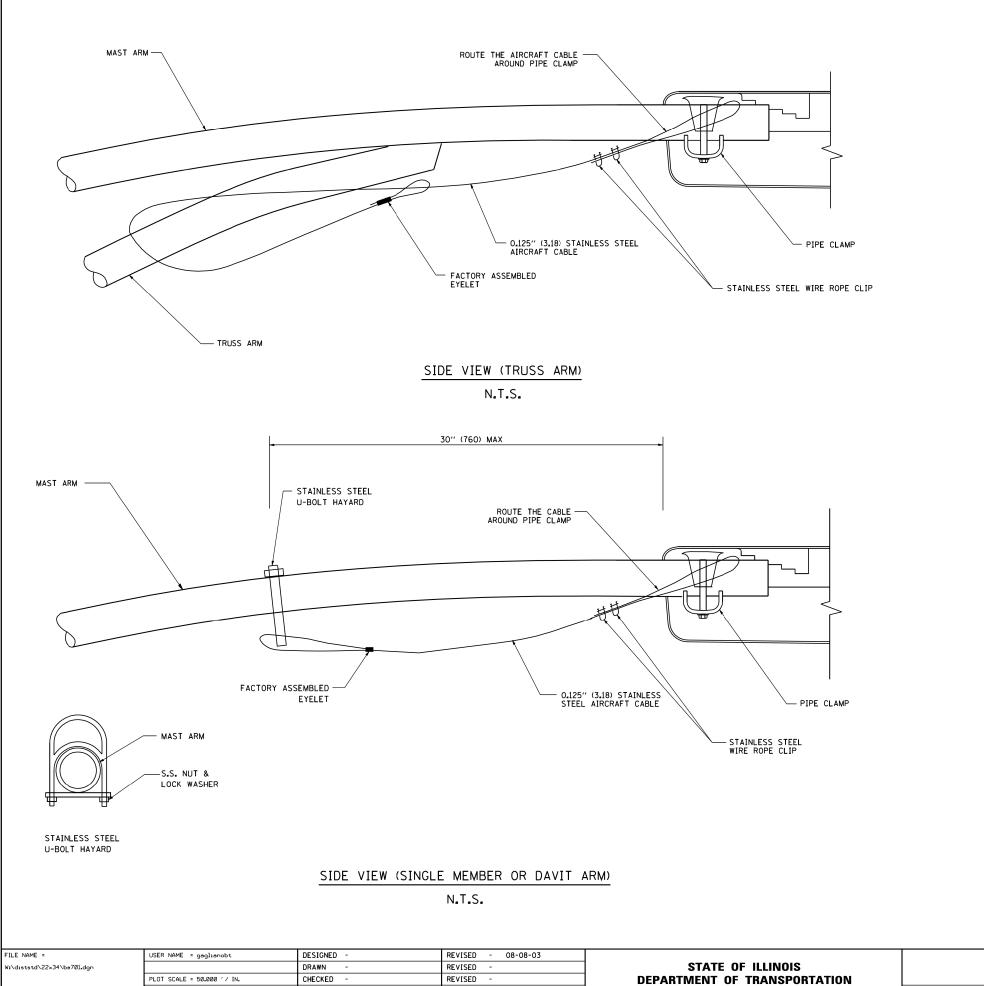
 - 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SNOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 1. CONTRACT AND A STREET AND A STRE
 - CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY KZC23, T&B SP40L OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL 111/2" (292.0) BOLT CIRCLE

							••			
GHT POLE Unting Height				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
						145	66			
				BE-402	CONTRACT	NO.				
5	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

LT-11



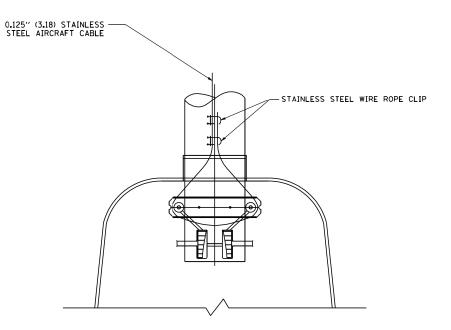
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA.

REVISED

- JUNE 25, 2018

DATE

PLOT DATE = 1/4/2008



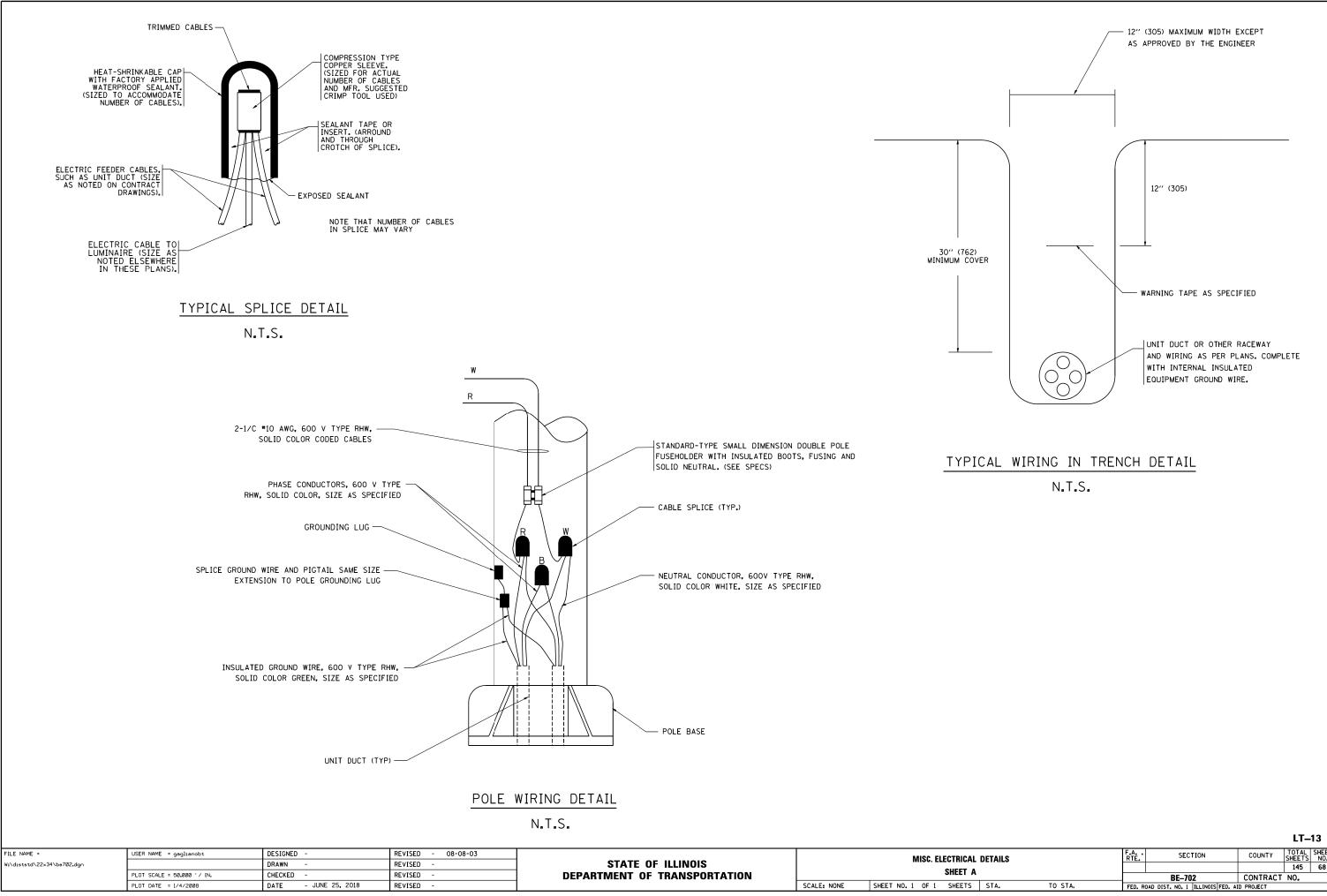
BOTTOM VIEW N.T.S.

NOTES:

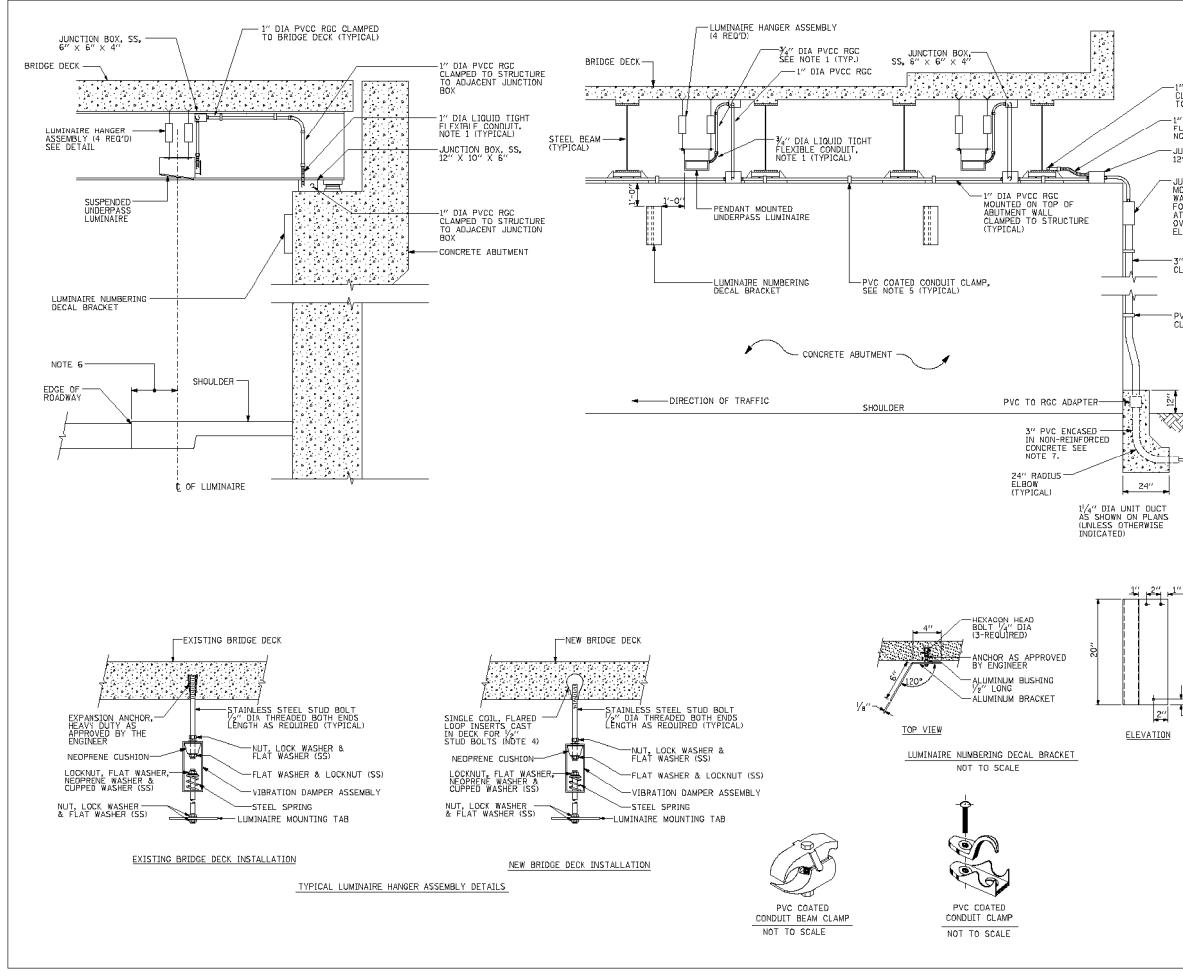
- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

TOTAL SHEET SHEETS NO. 145 67 COUNTY F.A. RTE. SECTION LUMINAIRE SAFETY CABLE ASSEMBLY CONTRACT NO. BE-701 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LT–12



AL DETAILS				SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
							145	68
A				BE-70	2	CONTRACT	NO.	
S	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FED. AI	D PROJECT		



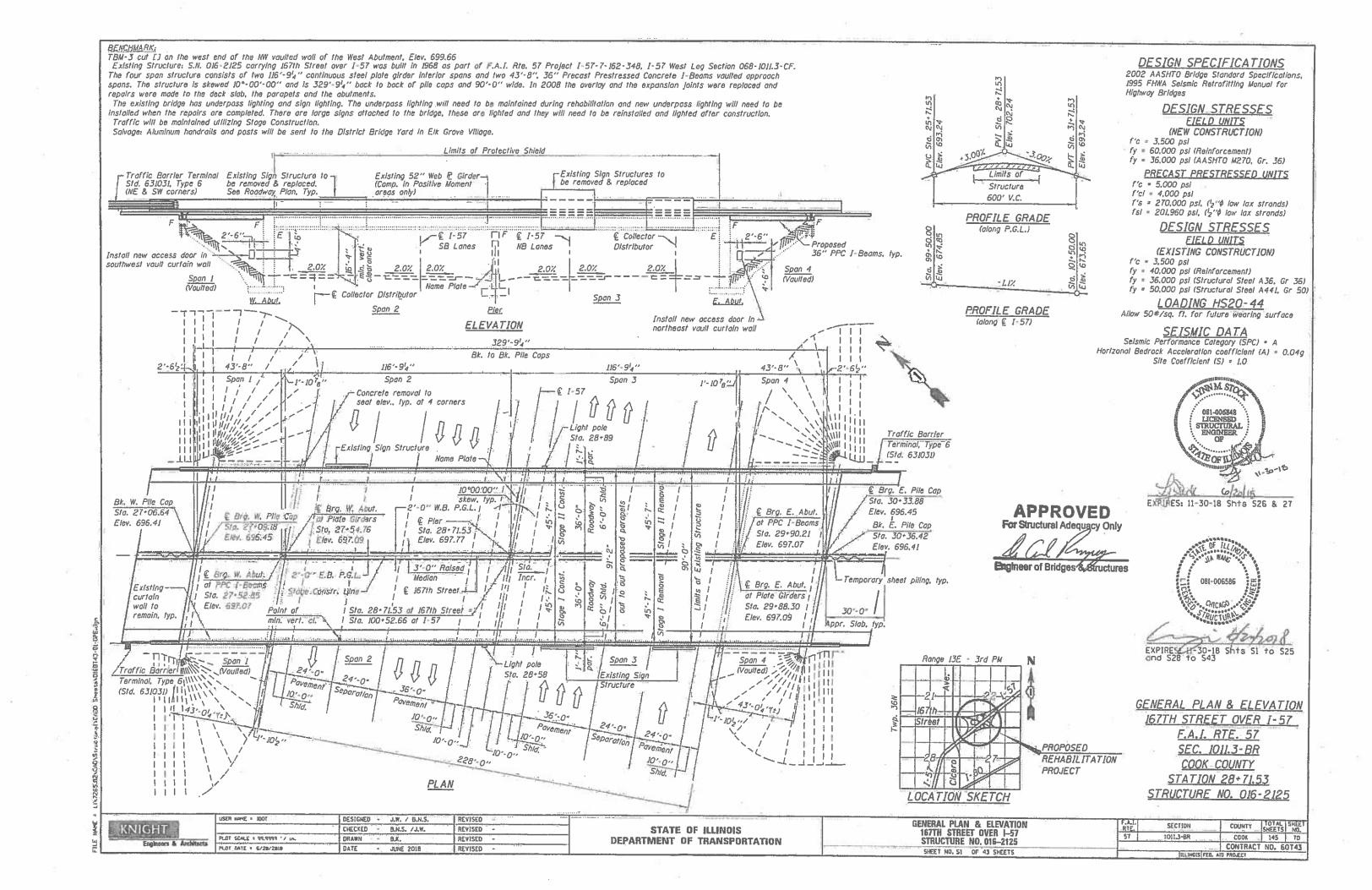
1/17/2007 c:\projecte\da 50.008 ' / IN. uinteNed

CONTRACT NO. TOTAL SHEET SHEETS NO. COUNTY SECTION RTE. STA. TO STA FED. RDAD DIST. ND. ILLINDIS FED. AID PROJECT 1" DIA PVCC RGC CLAMPED TO STEEL BEAM TO ADJACENT PIER -1" DIA LIQUID TIGHT FLEXIBLE CONDUIT, NOTE 1 (TYPICAL) -JUNCTION BOX, SS, 12″x10″x6″ -JUNCTION BOX, SS, MOUNTED TO ABUTMENT WALL, SEE PLAN DRAWINGS FOR JUNCTION BOX DIMENSIONS AT EACH LOCATION. INSTALL OVERCURRENT AS INDICATED ELSEWHERE. -3" DIA PVCC RGC CLAMPED TO STRUCTURE - PVC COATED CONDUIT CLAMP, NOTE 5 NOTES: NUTES: 1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-O", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-O" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT ¾" DIA. CONDUIT AND ¾" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERASS LUMINAIRE GRADE XXXXXX IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION. 30" MIN 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES. _____ 3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR, SEE DETAIL. 4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM. 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-O" INTERVALS FOR LATERALS AND WITHIN 2'-O" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM. L1" (TYPICAL) 6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINARE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS. B. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL. TOTAL SHEE SHEETS NO. LT–14 145 **69** REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION DATE NAME

2

SUSPEND	ED MOUNT UNDERPASS
LUMINAIRE	INSTALLATION DETAILS
SCALE: VERT.	DRAWN BY
DATE: 1/17/2007	CHECKED BY
	BE-900

REVISION DATE: 01-01-2007



TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Superstructures	Each	2	-	2
Concrete Removal	Cu Yd	-	71.5	71.5
Removal of Existing Concrete Deck	Each	1	-	1
Protective Shield	Sq Yd	2,449	-	2,449
Structure Excavation	Cu Yd	-	76.7	76.7
Concrete Structures	Cu Yd	-	111.4	111.4
Concrete Superstructure	Cu Yd	986.2	-	986.2
Bridge Deck Grooving	Sq Yd	3,531	-	3,531
Concrete Superstructure (Approach Slab)	Cu Yd	271.5	-	271.5
Protective Coat	Sq Yd	4,141	-	4,141
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36 In.	Foot	1,260	-	1,260
Reinforcement Bars, Epoxy Coated	Pound	307,700	15,480	323,180
Bar Splicers	Each	1,408	98	1,506
Name Plates	Each	-	1	1
Preformed Joint Strip Seal	Foot	183	-	183
Elastomeric Bearing Assembly, Type I	Each	24	-	24
Anchor Bolts, 1"	Each	48	-	48
Temporary Sheet Piling	Sq Ft	-	129	129
Concrete Sealer	Sq Ft	-	1,304	1,304
Epoxy Crack Injection	Foot	-	108	108
Geocomposite Wall Drain	Sq Yd	-	42	42
Cleaning and Painting Bearings	Each	12	-	12
Access Door	Each	-	2	2
Granular Backfill For Structures	Cu Yd	-	64.2	64.2
Jack and Remove Existing Bearings	Each	24	-	24
Containment and Disposal of Lead Paint Cleaning Residues	L Sum	1	-	1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	-	175	175
Pipe Underdrain for Structures 4''	Foot	-	198	198
Removal of Existing Protective Shield	Sq Yd	2,449	-	2,449

SCOPE OF WORK:

- 1. Remove the existing deck (90'-0'' out to out) including the l_2'' waterproofing membrane system, 11/2" HMA surface course and the abutment vault slabs and then replace with an 8" reinforced concrete deck (91'-2" out to out).
- 2. The Contractor shall not sawcut the deck over the top of the existing flanges.
- 3. Remove and replace West and East approach slabs.
- 4. Remove & replace PPC I-Beams in the two vaulted spans.
- 5. Replace fixed bearings under the PPC I-Beam airders.
- 6. Replace expansion bearings and clean and paint fixed bearings under the steel girders.
- 7. Perform structural repair of concrete to the abutments. pile caps & the pier. 8. Reconstruct the bridge seats at the abutments & at pile caps and install a 4"
- underdrain behind the pile caps.
- 9. Install concrete diaphragms at pile caps to seal access.
- 10. Install new expansion joints and preformed joint seals.
- 11. Install one access door in northeast vault curtain wall and the southwest vault curtain wall.
- 12. Cleaning and Painting of existing structural steel to be under a separate contract.

GENERAL NOTES:

Concrete Sealer shall be applied to the designated areas of all exposed surfaces of backwalls & bridge seat extensions of the abutments.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage steel and the cost will be included in the pay item covering the Removal of the Existing Concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel by the Engineer. Any cracks that can not be removed by grinding $\frac{l}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of The Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Cleaning and painting existing bearings will be part of this contract.

Cleaning and field painting of all other structural steel shall be done under a separate painting contract. No field welding is permitted except as specified in the contract documents.

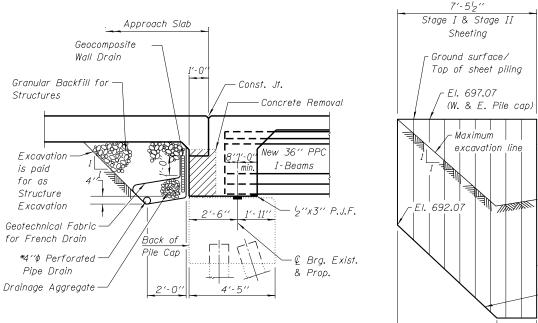
The information concerning the type and location of underground and other utilities is not guaranteed to be accurate or all inclusive. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction by contacting J.U.L.I.E. at 1-800-892-0123.

Slip forming of the parapets is not allowed.

Reinforcement bars designated (E) shall be epoxy coated.

The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings. Existing steel bearings that are to remain in place shall be cleaned and painted with an inorganic zinc rich primer per AASHTO M300, Type 1.

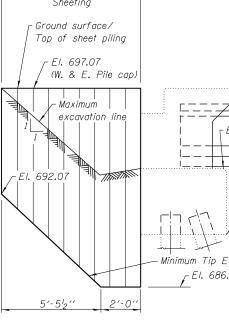


SECTION AT PILE CAP

(Dimensions are at right *Ls*)

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

All drainage system components shall extend to 2'-O'' from the end of each wingwall except an outlet pipe 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)



TEMPORARY SHEET PILING

(West and East Pile caps) Minimum Section Modulus = 4.0 in ³/ft Minimum Embedment = 5'-0''

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and accpetance by the Engineer.

-											
		USER NAME = IDOT	DESIGNED -	J.W. / B.N.S.	REVISED -		GENERAL NOTES & TOTAL BILL OF MATERIAL	F.A.I.	SECTION	COUNTY	TOTAL SHEET SHEETS NO
ЫM	KNIGHT		CHECKED -	B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК	145 71
	Engineers & Architects	PLOT SCALE = 99.9999 1/ in.	DRAWN -	В.К.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRACT	T NO. 60T43
Engineers & Architects		PLOT DATE = 6/21/2018	DATE -	JUNE 2018	REVISED -		SHEET NO. S2 OF 43 SHEETS		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS:

	TNULX OF SHELTS:
S1	General Plan & Elevation
S2	General Notes & Total Bill of Material
S3	Stage Construction
S4	Typical Cross Sections
S5	Temporary Concrete Barrier for Stage Construction
S6	Top of Slab Elevations - Span 1 (1 of 3)
S7	Top of Slab Elevations - Span 1 (2 of 3)
<i>S8</i>	Top of Slab Elevations - Span 1 (3 of 3)
S9	Top of Slab Elevations - Span 2 & 3 (1 of 6)
S10	Top of Slab Elevations - Span 2 & 3 (2 of 6)
S11	Top of Slab Elevations - Span 2 & 3 (3 of 6)
S12	Top of Slab Elevations - Span 2 & 3 (4 of 6)
S13	Top of Slab Elevations - Span 2 & 3 (5 of 6)
S14	Top of Slab Elevations - Span 2 & 3 (6 of 6)
S15	Top of Slab Elevations - Span 4 (1 of 3)
S16	Top of Slab Elevations - Span 4 (2 of 3)
S17	Top of Slab Elevations - Span 4 (3 of 3)
S18	Top of West Approach Slab Elevations
S19	Top of East Approach Slab Elevations
S20	Superstructure & Deck Removal Details
S21	Deck Plan and Section - Span 2 & 3
S22	Superstructure Details - Span 2 & 3
S23	Deck Plan - Vaulted Abutment Approach Span 1 & 4
S24	Vaulted Abutment Approach Span 1 & 4 Details 1 of 2
S25	Vaulted Abutment Approach Span 1 & 4 Details 2 of 2
S26	Bridge Approach Slab Details - I
S27	Bridge Approach Slab Details - II
S28	Preformed Joint Strip Seal
S29	Structural Steel Framing Plan - Span 2 & 3
S30	Existing Structural Steel Details - Span 2 & 3
S31	PPC I-Beam Framing Plan - Span 1 & 4
S32	36'' PPC I-Beam
533	36'' PPC I-Beam Details
S34	Expansion Bearing Details
S 3 5	Pile Cap Removal Details
S36	Pile Cap Plan & Elevation
S37	Abutment Removal Details
S38	Abutment Plan & Elevation
S39	Abutment Details
S40	Abutment Repairs
S41	Pier Repairs
S42	Access Door
S43	Bar Splicer Assembly Details
	For Existing Bridge Plans, see Sheet No's SXO1-SX20

EI. 691.62

- EI. 688.12

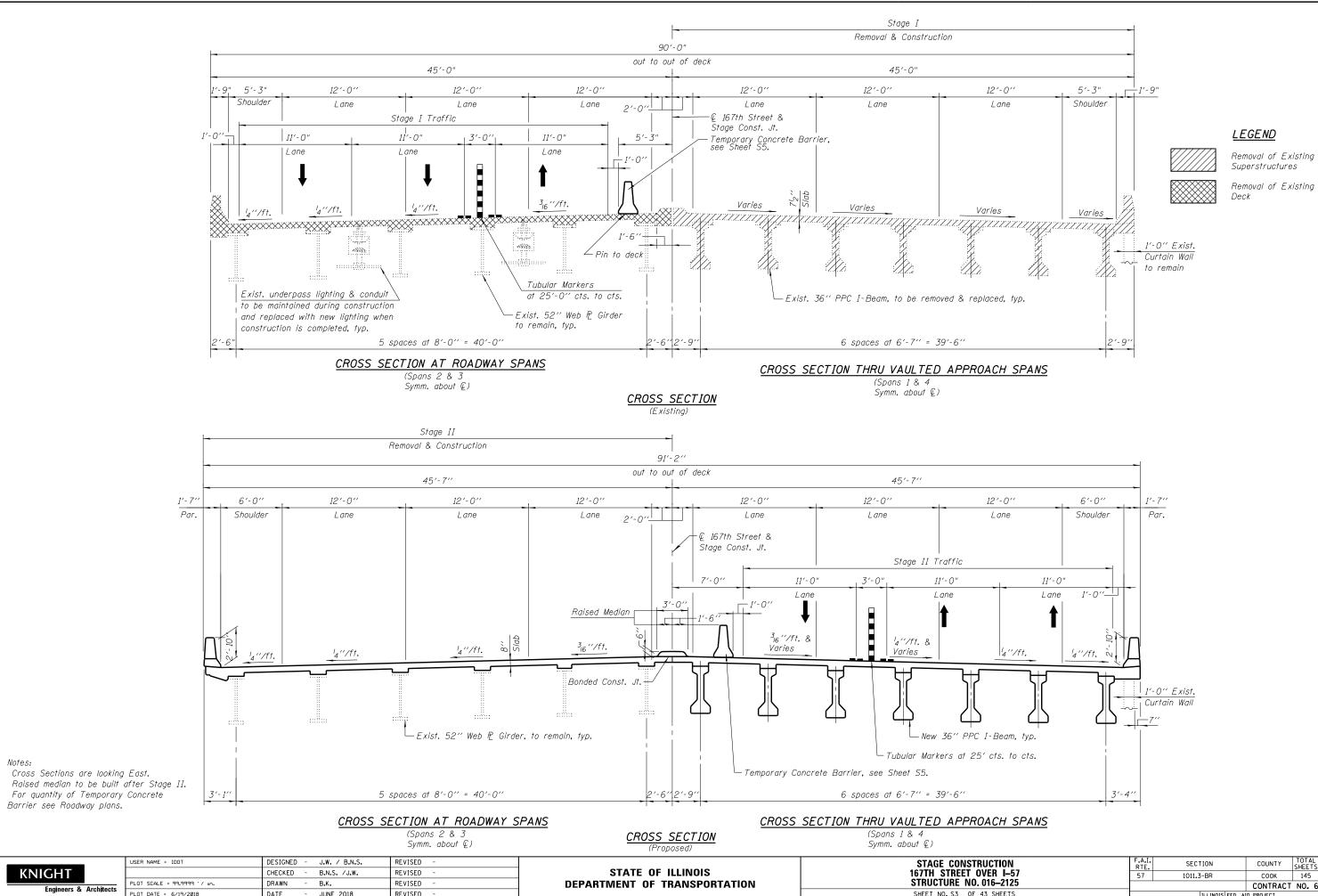
Minimum Tip Elevation for sheeting. _ El. 686.29 (W. & E. Pile cap)

STATION 28+71.53 RE-BUILT ΒY STATE OF ILLINOIS A.I. RTE. 57 SEC. 1011.3-BR LOADING HS 20-44 STRUCTURE NO. 016-2125

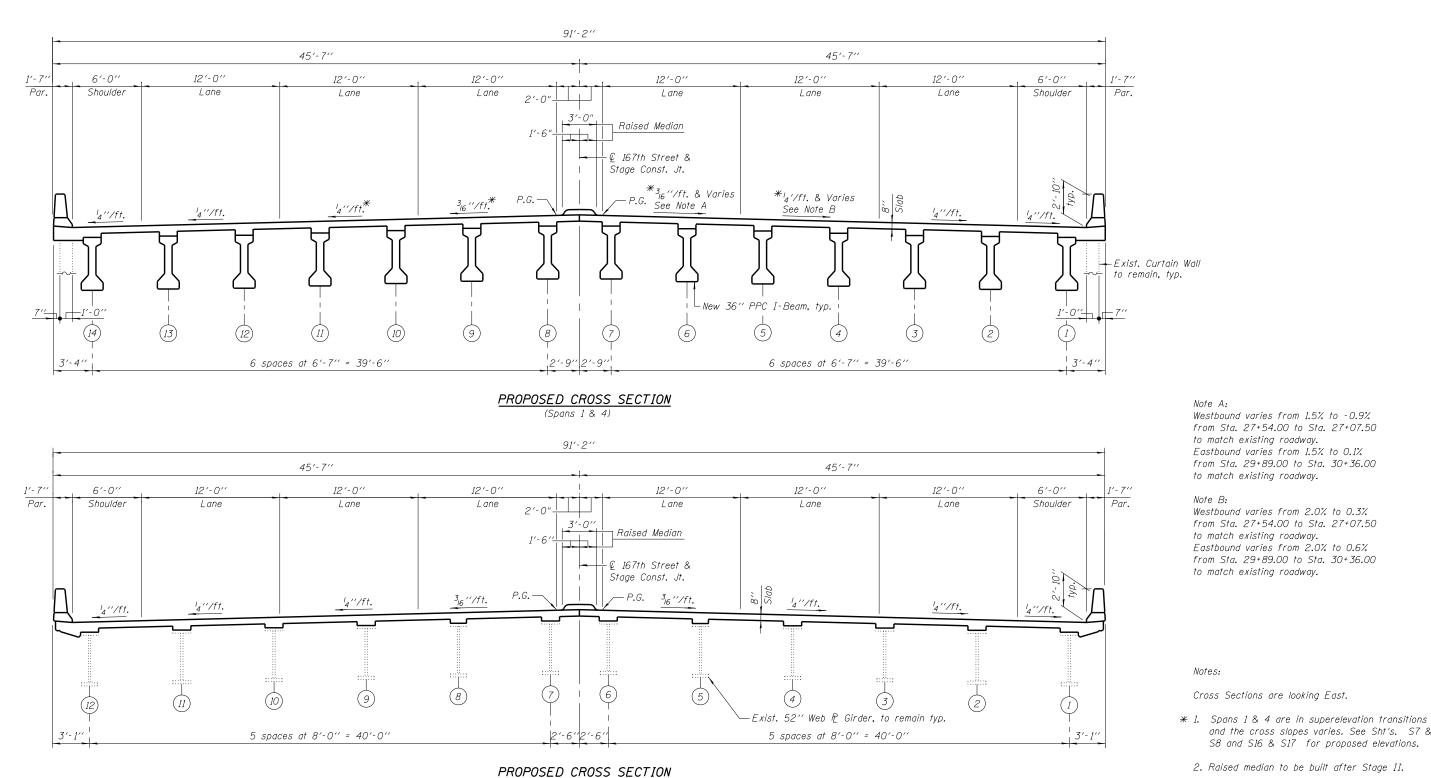
NAME PLATE See Std. 515001

Note-

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plate,



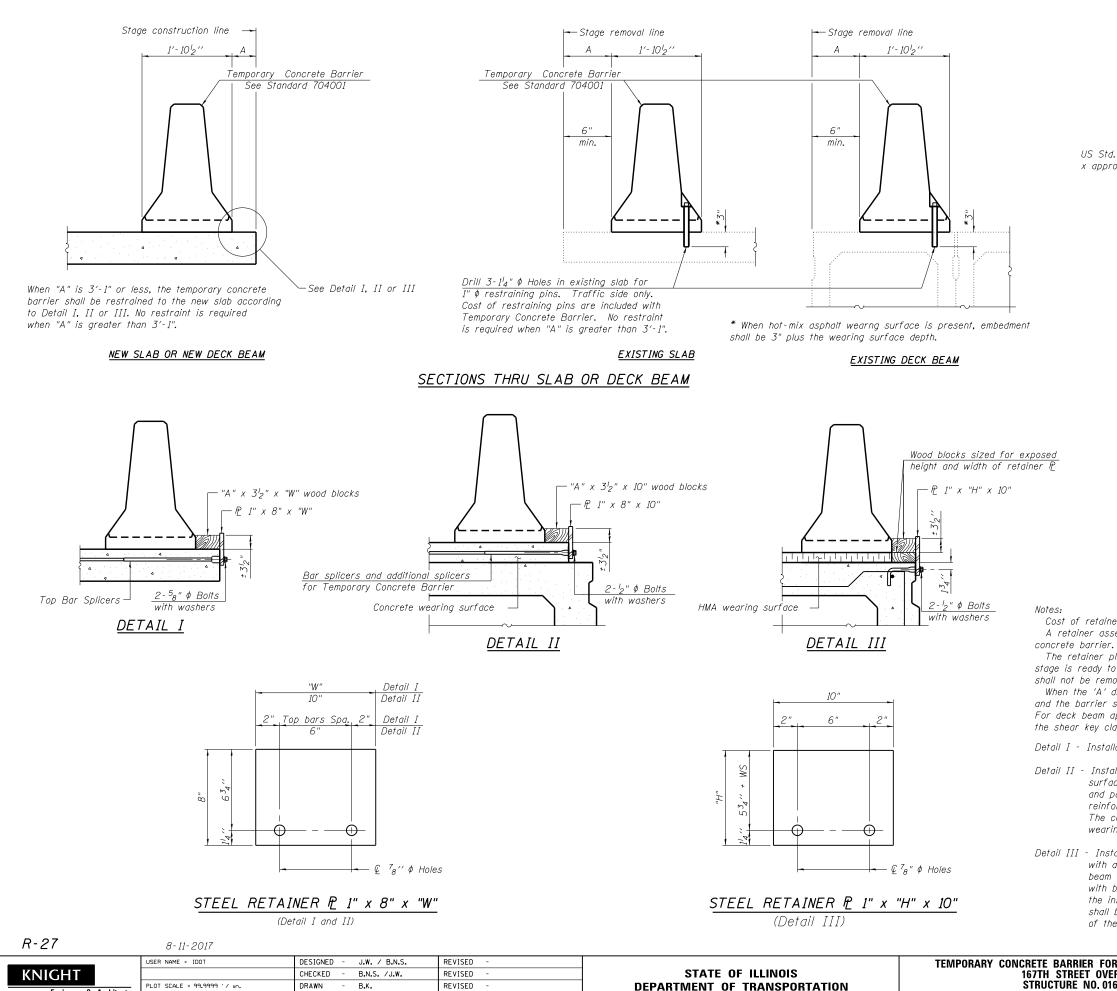
RUCTION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVER I-57	57	1011.3-BR	СООК	145	72	
. 016–2125			CONTRACT	NO. 6	0T43	
43 SHEETS	ILLINOIS FED. AID PROJECT					



(Spans 2 & 3)

Ц		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -			F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
2 N N	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57 1011.3-BR	СООК 145 73
ч	Engineers & Architects	PLOT SCALE = 99.9999 '/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125		CONTRACT NO. 60T43
-	3	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S4 OF 43 SHEETS	ILLINOIS FED	. AID PROJECT

- and the cross slopes varies. See Sht's. S7 & S8 and S16 & S17 for proposed elevations.
- 3. For quantity of Temporary Concrete Barrier see Roadway plans.
- 4. For locations of flared loop inserts, See Sht's. LT-01 thru LT-04.



Engineers & Architects

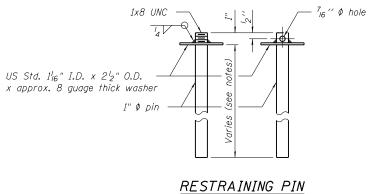
PLOT DATE = 6/19/2018

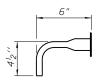
DATE

JUNE 2018

REVISED

SHEET NO. S5 OF





BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate * of each temporary

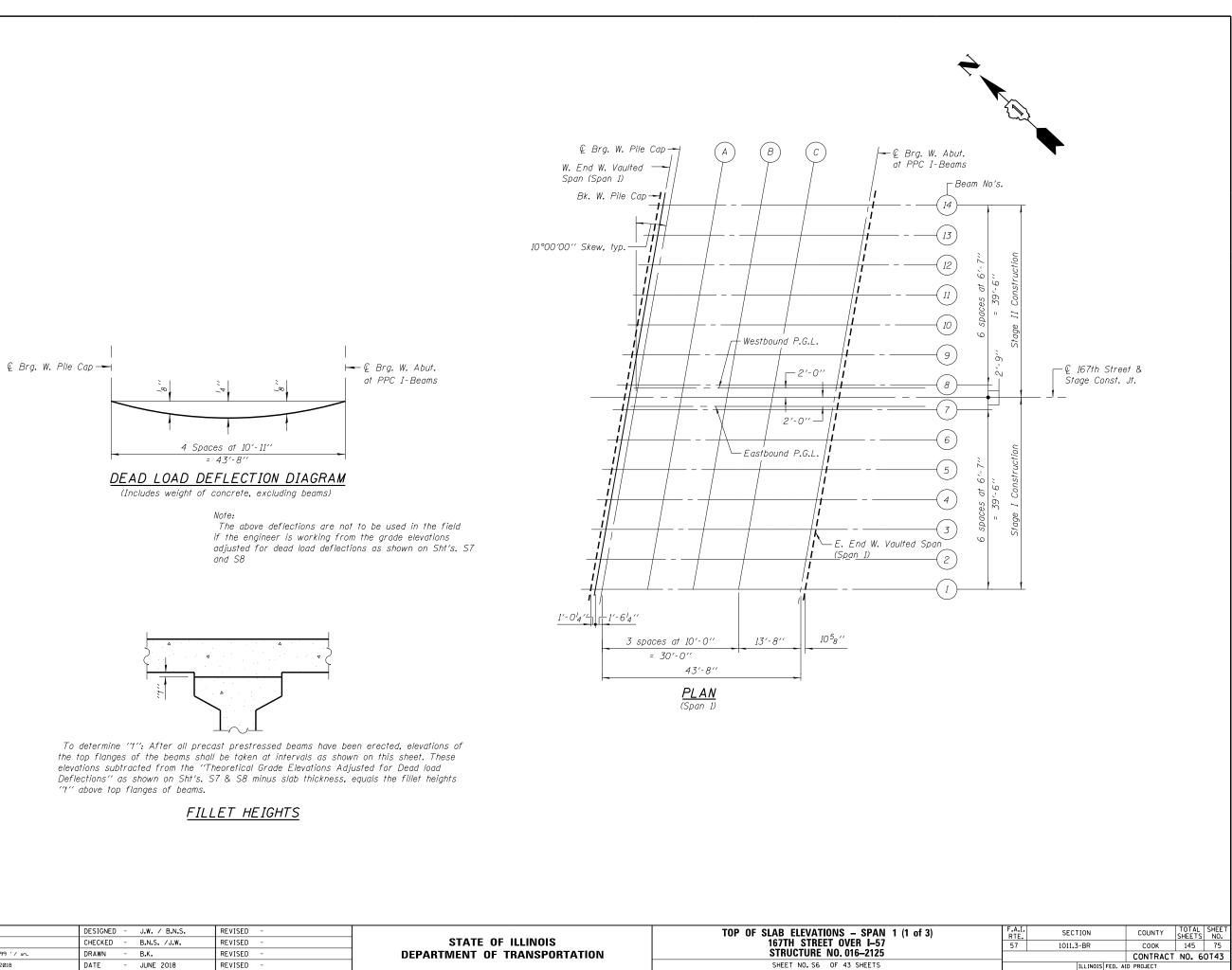
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam. When the 'A' dimension is less than l_2^{\prime} ", the wood block shall be omitted 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.

FOR STAGE CONSTRUCTION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER I-57	57	1011.3-BR	СООК	145	74
. 016–2125			CONTRACT	NO. 6	0T43
43 SHEETS		ILLINOIS FED. AI	D PROJECT		



KNICHT	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED - REVISED -	STATE OF ILLINOIS	TOP OF SLAB ELEVATIONS
KINIGITT	PLOT SCALE = 99.9999 // In.	CHECKED - B.N.S. /J.W. DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	167TH STREET OV Structure No.0
Engineers & Archi	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S6 OF 43

		BEAM 2					BEAM 3		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+00.36	35.67	695.64	695.64	BK. W. PILE CAP	27+01.52	29.08	695.79	695.79
W. END W. VAULTED SPAN (SPAN 1)	27+01.38	35.67	695.65	695.65	W. END W. VAULTED SPAN (SPAN 1)	27+02.54	29.08	695.81	695.81
CL. BRG. W. PILE CAP	27+02.90	35.67	695.68	695.68	CL. BRG. W. PILE CAP	27+04.06	29.08	695.84	695.84
A B C	27+12.90 27+22.90 27+32.90	35.67 35.67 35.67	695.84 696.00 696.14	695.86 696.02 696.16	A B C	27+14.06 27+24.06 27+34.06	29.08 29.08 29.08	696.00 696.15 696.29	696.01 696.17 696.31
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+46.56	35.67	696.32	696.32	CL. BRG. W. ABUT. AT PPC I-BEAMS	27+47.72	29.08	696.47	696.47
E. END W. VAULTED SPAN (SPAN 1)	27+47.45	35.67	696.33	696.33	E. END W. VAULTED SPAN (SPAN 1)	27+48.61	29.08	696.48	696.48

		BEAM 1		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	26+99.19	42.25	695.48	695.48
W. END W. VAULTED SPAN (SPAN 1)	27+00.22	42.25	695.50	695.50
CL. BRG. W. PILE CAP	27+01.74	42.25	695.52	695.52
A B C	27+11.74 27+21.74 27+31.74	42.25 42.25 42.25	695.69 695.84 695.99	695.70 695.86 696.01
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+45.40	42.25	696.17	696.17
E. END W. VAULTED SPAN (SPAN 1)	27+46.29	42.25	696.18	696.18

		BEAM 5					BEAM 6		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+03.84	15.92	696.11	696.11	BK. W. PILE CAP	27+05.00	9.33	696.24	696.24
W. END W. VAULTED SPAN (SPAN 1)	27+04.86	15.92	696.12	696.12	W. END W. VAULTED SPAN (SPAN 1)	27+06.02	9.33	696.26	696.26
CL. BRG. W. PILE CAP	27+06.38	15.92	696.15	696.15	CL. BRG. W. PILE CAP	27+07.54	9.33	696.28	696.28
A B C	27+16.38 27+26.38 27+36.38	15.92 15.92 15.92	696.31 696.46 696.60	696.32 696.48 696.62	A B C	27+17.54 27+27.54 27+37.54	9.33 9.33 9.33	696.44 696.59 696.73	696.46 696.61 696.75
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+50.05	15.92	696.77	696.77	CL. BRG. W. ABUT. AT PPC I-BEAMS	27+51.21	9.33	696.90	696.90
E. END W. VAULTED SPAN (SPAN 1)	27+50.93	15.92	696.79	696.79	E. END W. VAULTED SPAN (SPAN 1)	27+52.09	9.33	696.91	696.91

		<u>BEAM 4</u>		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+02.68	22.50	695.95	695.95
W. END W. VAULTED SPAN (SPAN 1)	27+03.70	22.50	695.97	695.97
CL. BRG. W. PILE CAP	27+05.22	22.50	695.99	695.99
A B C	27+15.22 27+25.22 27+35.22	22.50 22.50 22.50	696.15 696.30 696.45	696.17 696.33 696.46
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+48.89	22.50	696.62	696.62
E. END W. VAULTED SPAN (SPAN 1)	27+49.77	22.50	696.63	696.63

			EAST	BOUND	PGL		<u>CL 167TH S</u>	TREET & S	STAGE CO	DNSTRUCTION	<u>I JOINT</u>
RETICAL ADE ATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
5.36	696.36	BK. W. PILE CAP	27+06.29	2.00	696.37	696.37	BK. W. PILE CAP	27+06.64	0.00	696.41	696.41
5.38	696.38	W. END W. VAULTED SPAN (SPAN 1)	27+07.31	2.00	696.39	696.39	W. END W. VAULTED SPAN (SPAN 1)	27+07.67	0.00	696.43	696.43
5.40	696.40	CL. BRG. W. PILE CAP	27+08.83	2.00	696.42	696.42	CL. BRG. W. PILE CAP	27+09.19	0.00	696.45	696.45
5.56 5.71 5.85	696.58 696.73 696.86	A B C	27+18.83 27+28.83 27+38.83	2.00 2.00 2.00	696.57 696.72 696.86	696.59 696.74 696.88	A B C	27+19.19 27+29.19 27+39.19	0.00 0.00 0.00	696.61 696.76 696.89	696.63 696.78 696.91
7.02	697.02	CL. BRG. W. ABUT. AT PPC I-BEAMS	27+52.50	2.00	697.03	697.03	CL. BRG. W. ABUT. AT PPC I-BEAMS	27+52.85	0.00	697.07	697.07
7.03	697.03	E. END W. VAULTED SPAN (SPAN 1)	27+53.39	2.00	697.04	697.04	E. END W. VAULTED SPAN (SPAN 1)	27+53.74	0.00	697.08	697.08

		BEAM 7		
				THEORETICAL GRADE
			THEORETICAL	ELEVATIONS ADJUSTED
LOCATION	STATION	OFFSET	GRADE	FOR DEAD LOAD
			ELEVATIONS	DEFLECTIONS
BK. W. PILE CAP	27+06.16	2.75	696.36	696.36
W. END W. VAULTED SPAN (SPAN 1)	27+07.18	2.75	696.38	696.38
CL. BRG. W. PILE CAP	27+08.70	2.75	696.40	696.40
A	27+18.70	2.75	696.56	696.58
В	27+28.70	2.75	696.71	696.73
C	27+38.70	2.75	696.85	696.86
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+52.37	2.75	697.02	697.02
E. END W. VAULTED SPAN (SPAN 1)	27+53.25	2.75	697.03	697.03

	ISER NAME = IDOT	DESIGNED -	J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 1 (2 of 3)	F.A.I. RTF.	SECTION	COUNTY TOT	OTAL SHEET
KNIGHT		CHECKED -	B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК 14	145 76
	2LOT SCALE = 99.9999 '/ In.	DRAWN -	В.К.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRACT NO	NO. 60T43
	PLOT DATE = 6/19/2018	DATE -	JUNE 2018	REVISED -		SHEET NO. S7 OF 43 SHEETS		ILLINOIS FED.	AID PROJECT	

		BEAM 8					BEAM 9		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+07.13	-2.75	696.40	696.40	BK. W. PILE CAP	27+08.29	-9.33	696.47	696.47
W. END W. VAULTED SPAN (SPAN 1)	27+08.15	-2.75	696.41	696.41	W. END W. VAULTED SPAN (SPAN 1)	27+09.31	-9.33	696.48	696.48
CL. BRG. W. PILE CAP	27+09.67	-2.75	696.44	696.44	CL. BRG. W. PILE CAP	27+10.83	-9.33	696.50	696.50
A B C	27+19.67 27+29.67 27+39.67	-2.75 -2.75 -2.75	696.59 696.73 696.86	696.60 696.75 696.88	A B C	27+20.83 27+30.83 27+40.83	-9.33 -9.33 -9.33	696.62 696.72 696.82	696.63 696.75 696.84
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+53.34	-2.75	697.03	697.03	CL. BRG. W. ABUT. AT PPC I-BEAMS	27+54.50	-9.33	696.94	696.94
E. END W. VAULTED SPAN (SPAN 1)	27+54.22	-2.75	697.04	697.04	E. END W. VAULTED SPAN (SPAN 1)	27+55.38	-9.33	696.95	696.95

	WES	TBOUND	PGL	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+07.00	-2.00	696.39	696.39
W. END W. VAULTED SPAN (SPAN 1)	27+08.02	-2.00	696.40	696.40
CL. BRG. W. PILE CAP	27+09.54	-2.00	696.43	696.43
A B C	27+19.54 27+29.54 27+39.54	-2.00 -2.00 -2.00	696.58 696.73 696.87	696.60 696.75 696.89
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+53.21	-2.00	697.04	697.04
E. END W. VAULTED SPAN (SPAN 1)	27+54.09	-2.00	697.05	697.05

		BEAM 11	<u>_</u>		<u>BEAM 12</u>
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION STATION OFFSET GRADE FOR DEAD LOCATION
BK. W. PILE CAP	27+10.61	-22.50	696.50	696.50	BK. W. PILE CAP 27+11.77 -29.08 696.42 696.42
W. END W. VAULTED SPAN (SPAN 1)	27+11.63	-22.50	696.50	696.50	W. END W. VAULTED SPAN (SPAN 1) 27+12.79 -29.08 696.43 696.43
CL. BRG. W. PILE CAP	27+13.15	-22.50	696.51	696.51	CL. BRG. W. PILE CAP 27+14.31 -29.08 696.44 696.44
A B C	27+23.15 27+33.15 27+43.15	-22.50 -22.50 -22.50	696.57 696.62 696.66	696.59 696.64 696.67	A27+24.31-29.08696.48696.49B27+34.31-29.08696.51696.54C27+44.31-29.08696.53696.55
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+56.82	-22.50	696.72	696.72	CL. BRG. W. ABUT. AT PPC I-BEAMS 27+57.98 -29.08 696.59 696.59
E. END W. VAULTED SPAN (SPAN 1)	27+57.71	-22.50	696.73	696.73	E. END W. VAULTED SPAN (SPAN 1) 27+58.87 -29.08 696.60 696.60

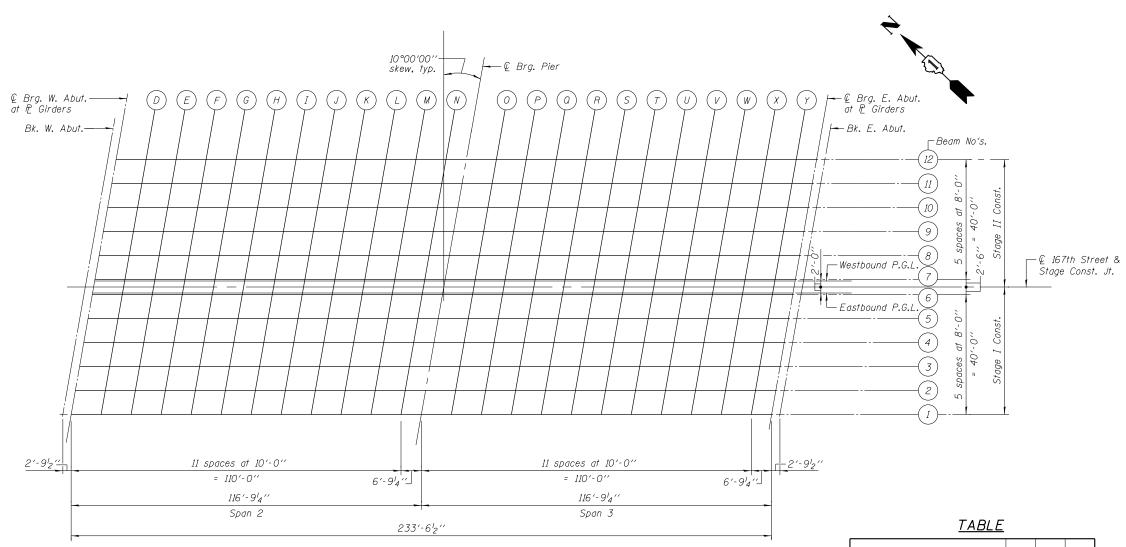
			THEORETICAL	THEORETICAL GRADE
LOCATION	STATION	OFFSET	GRADE	FOR DEAD LOAD
			ELEVATIONS	DEFLECTIONS
BK. W. PILE CAP	27+09.45	-15.92	696.51	696.51
W. END W. VAULTED SPAN (SPAN 1)	27+10.47	-15.92	696.52	696.52
CL. BRG. W. PILE CAP	27+11.99	-15.92	696.54	696.54
А	27+21.99	-15.92	696.62	696.64
В	27+31.99	-15.92	696.70	696.72
C	27+41.99	-15.92	696.76	696.78
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+55.66	-15.92	696.84	696.84
E. END W. VAULTED SPAN (SPAN 1)	27+56.54	-15.92	696.85	696.85
L. LIND W. VAOLILD SPAN (SPAN I)	27+30.34	-13.92	030.85	030.85

<u>BEAM 10</u>

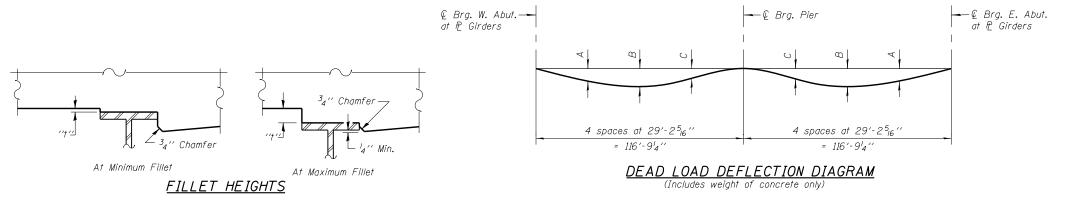
		BEAM 14	Ł	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. PILE CAP	27+14.09	-42.25	696.16	696.16
W. END W. VAULTED SPAN (SPAN 1)	27+15.12	-42.25	696.17	696.17
CL. BRG. W. PILE CAP	27+16.64	-42.25	696.17	696.17
А	27+26.64	-42.25	696.21	696.23
В	27+36.64	-42.25	696.24	696.27
С	27+46.64	-42.25	696.26	696.28
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+60.30	-42.25	696.35	696.35
E. END W. VAULTED SPAN (SPAN 1)	27+61.19	-42.25	696.36	696.36
E. END W. VAULTED SPAN (SPAN 1)	27+61.19	-42.25	696.36	696.36

		BEAM 13		
LOCATION	STATION	OFFSET	THEORETICAL GRADE	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD
			ELEVATIONS	DEFLECTIONS
BK. W. PILE CAP	27+12.93	-35.67	696.29	696.29
W. END W. VAULTED SPAN (SPAN 1)	27+13.95	-35.67	696.30	696.30
CL. BRG. W. PILE CAP	27+15.48	-35.67	696.31	696.31
А	27+25.48	-35.67	696.35	696.36
В	27+35.48	-35.67	696.38	696.40
С	27+45.48	-35.67	696.40	696.42
CL. BRG. W. ABUT. AT PPC I-BEAMS	27+59.14	-35.67	696.47	696.47
E. END W. VAULTED SPAN (SPAN 1)	27+60.03	-35.67	696.48	696.48

	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS - SPAN 1 (3 of 3)	F.A.I. SECTION COUNTY SHEETS	SHEET NO.
KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57 1011.3-BR COOK 145	77
Engineers & Architects	PLOT SCALE = 99.9999 ' / In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125	CONTRACT NO. 6	OT43
	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S8 OF 43 SHEETS	ILLINOIS FED. AID PROJECT	



PLAN



To determine ''t'': After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals as shown above. These elevations subtracted from the ''Theoretical Grade Elevations Adjusted for Dead Load Deflection'' shown on Sht's. SIO thru S14, minus slab thickness, equals the fillet heights ''t'' above top flange of beams.

	USER NAME = IDOT	DESIGNED -	J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 2 & 3 (1 of 6)	F.A.I.	SECTION	COUNTY	TOTAL SHEET
KNIGHT		CHECKED -	B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	соок	145 78
	PLOT SCALE = 99.9999 '/ In.	DRAWN -	В.К.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRAC	T NO. 60T43
Engineers & Architects	PLOT DATE = 6/19/2018	DATE -	JUNE 2018	REVISED -		SHEET NO. S9 OF 43 SHEETS	ILL INOIS F		ID PROJECT	

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Location	А	В	С
Beams 2 thru 5 & 8 thru 11	1 ³ 8''	134''	5 ₈ ''
Beams 1, 6, 7 & 12	138''	1'2''	5 ₈ ''

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on Sht's. S10 thru S14.

		BEAM 1				BEAM 2						BEAM 3		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRAD ELEVATIONS ADJUSTE FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	27+44.47	42.50	696.15	696.15	BK. W. ABUT.	27+45.88	34.50	696.34	696.34	BK. W. ABUT.	27+47.29	26.50	696.52	696.52
CL. BRG. W. ABUT. AT PL GIRDERS	27+47.27	42.50	696.19	696.19	CL. BRG. W. ABUT. AT PL GIRDERS	27+48.68	34.50	696.37	696.37	CL. BRG. W. ABUT. AT PL GIRDERS	27+50.09	26.50	696.55	696.55
D	27+57.27	42.50	696.31	696.35	D	27+58.68	34.50	696.49	696.54	D	27+60.09	26.50	696.67	696.72
E	27+67.27	42.50	696.42	696.50	E	27+68.68	34.50	696.60	696.69	E	27+70.09	26.50	696.78	696.88
F	27+77.27	42.50	696.51	696.63	F	27+78.68		696.69	696.82	F	27+80.09	26.50	696.87	697.00
G	27+87.27	42.50	696.60	696.73	G	27+88.68	34.50	696.78	696.93	G	27+90.09	26.50	696.96	697.11
Н	27+97.27	42.50	696.68	696.81	Н	27+98.68	34.50	696.86	697.01	H	28+00.09	26.50	697.04	697.19
Ι	28+07.27	42.50	696.75	696.87	I	28+08.68	34.50	696.93	697.07	1	28+10.09	26.50	697.10	697.24
J	28+17.27	42.50	696.81	696.91	J	28+18.68	34.50	696.99	697.10	J	28+20.09	26.50	697.16	697.27
К	28+27.27	42.50	696.86	696.93	К	28+28.68	34.50	697.03	697.11	К	28+30.09	26.50	697.21	697.29
L	28+37.27	42.50	696.90	696.94	L	28+38.68	34.50	697.07	697.12	L	28+40.09	26.50	697.24	697.29
Μ	28+47.27	42.50	696.93	696.95	M	28+48.68	34.50	697.10	697.12	M	28+50.09	26.50	697.27	697.29
Ν	28+57.27	42.50	696.95	696.95	N	28+58.68	34.50	697.12	697.12	N	28+60.09	26.50	697.29	697.29
CL BRG. PIER	28+64.04	42.50	696.96	696.96	CL BRG. PIER	28+65.45	34.50	697.12	697.12	CL BRG. PIER	28+66.86	26.50	697.29	697.29
0	28+74.04	42.50	696.96	696.97	О	28+75.45	34.50	697.12	697.13	0	28+76.86	26.50	697.29	697.30
Р	28+84.04	42.50	696.95	696.98	Р	28+85.45		697.12	697.15	Р	28+86.86	26.50	697.28	697.31
Q	28+94.04	42.50	696.93	696.98	Q	28+95.45	34.50	697.10	697.16	Q	28+96.86	26.50	697.26	697.32
R	29+04.04	42.50	696.91	696.98	R	29+05.45	34.50	697.07	697.16	R	29+06.86	26.50	697.23	697.32
S	29+14.04	42.50	696.87	696.97	S	29+15.45	34.50	697.03	697.15	S	29+16.86	26.50	697.19	697.31
Т	29+24.04	42.50	696.82	696.95	Т	29+25.45	34.50	696.98	697.12	Т	29+26.86	26.50	697.14	697.28
U	29+34.04	42.50	696.76	696.90	U	29+35.45	34.50	696.92	697.07	U	29+36.86	26.50	697.08	697.23
V	29+44.04	42.50	696.70	696.82	V	29+45.45		696.85	697.00	V	29+46.86	26.50	697.01	697.15
W	29+54.04	42.50	696.62	696.72	W	29+55.45	34.50	696.77	696.90	W	29+56.86	26.50	696.93	697.05
Х	29+64.04	42.50	696.53	696.60	X	29+65.45	34.50	696.68	696.77	X	29+66.86	26.50	696.84	696.92
Y	29+74.04	42.50	696.43	696.46	Y	29+75.45	34.50	696.59	696.62	Y	29+76.86	26.50	696.74	696.77
. BRG. E. ABUT. AT PLATE GIRDERS	29+80.81	42.50	696.36	696.36	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+82.22	34.50	696.51	696.51	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+83.63	26.50	696.66	696.66
BK. E. ABUT.	29+83.60	42.50	696.33	696.33	BK. E. ABUT.	29+85.01	34.50	696.48	696.48	BK. E. ABUT.	29+86.42	26.50	696.63	696.63

	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 2 & 3 (2 of 6)	F.A.I.	SECTION	COUNTY TOTAL SHEET
KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК 145 79
 Engineers & Architects	PLOT SCALE = 99.9999 // In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125	-		CONTRACT NO. 60T43
	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. SIO OF 43 SHEETS		ILLINOIS FED. A	ID PROJECT

		BEAM 4					BEAM 5							
LOCATION	STATION	OFFSET	GRADE ELEVATIONS	THEORETICAL GRADE FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	GRADE ELEVATIONS	THEORETICAL GRADE FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	GRADE ELEVATIONS	THEORETICAL GRADE FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	27+48.71	18.50	696.70	696.70	BK. W. ABUT.	27+50.12	10.50	696.87	696.87	BK. W. ABUT.	27+51.53	2.50	697.01	697.01
CL. BRG. W. ABUT. AT PL GIRDERS	27+51.50	18.50	696.74	696.74	CL. BRG. W. ABUT. AT PL GIRDERS	27+52.91	10.50	696.90	696.90	CL. BRG. W. ABUT. AT PL GIRDERS	27+54.32	2.50	697.04	697.04
D	27+61.50	18.50	696.85	696.91	D	27+62.91	10.50	697.02	697.07	D	27+64.32	2.50	697.16	697.21
	27+71.50	18.50	696.96	697.06	E	27+72.91	10.50	697.12	697.22	E	27+74.32	2.50	697.26	697.35
	27+81.50	18.50	697.05	697.18	_ F	27+82.91	10.50	697.21	697.34	F	27+84.32	2.50	697.35	697.47
	27+91.50	18.50	697.14	697.29	G	27+92.91	10.50	697.30	697.45	G	27+94.32	2.50	697.43	697.57
ј н !	28+01.50	18.50	697.21	697.36	. Н	28+02.91	10.50	697.37	697.52	н	28+04.32	2.50	697.51	697.64
(I)	28+11.50	18.50	697.28	697.42		28+12.91	10.50	697.43	697.57	I	28+14.32	2.50	697.57	697.69
J	28+21.50	18.50	697.33	697.45	J	28+22.91	10.50	697.49	697.60	J	28+24.32	2.50	697.62	697.72
κ	28+31.50	18.50	697.38	697.46	ĸ	28+32.91	10.50	697.53	697.61	к	28+34.32	2.50	697.66	697.74
l L l	28+41.50	18.50	697.41	697.46	_ L	28+42.91	10.50	697.57	697.61	L	28+44.32	2.50	697.69	697.74
M	28+51.50	18.50	697.44	697.46	M	28+52.91	10.50	697.59	697.61	M	28+54.32	2.50	697.72	697.74
N	28+61.50	18.50	697.45	697.46	N	28+62.91	10.50	697.60	697.61	N	28+64.32	2.50	697.73	697.73
CL BRG. PIER	28+68.27	18.50	697.46	697.46	CL BRG. PIER	28+69.68	10.50	697.61	697.61	CL BRG. PIER	28+71.09	2.50	697.73	697.73
	28+78.27	18.50	697.46	697.47	о	28+79.68		697.60	697.61	О	28+81.09	2.50	697.73	697.74
	28+88.27	18.50	697.44	697.47	. Р	28+89.68		697.59	697.62	P	28+91.09	2.50	697.71	697.74
	28+98.27	18.50	697.42	697.48	Q	28+99.68	10.50	697.57	697.63	Q	29+01.09	2.50	697.69	697.74
R	29+08.27	18.50	697.39	697.48	R	29+09.68		697.53	697.62	R	29+11.09	2.50	697.65	697.74
S	29+18.27	18.50	697.35	697.47	S	29+19.68	10.50	697.49	697.61	S	29+21.09	2.50	697.61	697.72
Т !	29+28.27	18.50	697.30	697.44	Т	29+29.68	10.50	697.44	697.58	Т	29+31.09	2.50	697.55	697.69
U .	29+38.27	18.50	697.24	697.39	U U	29+39.68	10.50	697.37	697.53	U	29+41.09	2.50	697.49	697.63
V I	29+48.27	18.50	697.16	697.31	V	29+49.68	10.50	697.30	697.45	V V	29+51.09	2.50	697.42	697.55
w	29+58.27	18.50	697.08	697.20	W	29+59.68	10.50	697.22	697.34	W	29+61.09	2.50	697.33	697.44
x !	29+68.27	18.50	696.99	697.08	x	29+69.68	10.50	697.13	697.21	x x	29+71.09	2.50	697.24	697.31
Y	29+78.27	18.50	696.89	696.93	Y	29+79.68	10.50	697.02	697.06	Y	29+81.09	2.50	697.13	697.17
CL. BRG. E. ABUT. AT PLATE GIRDERS	29+85.04	18.50	696.81	696.81	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+86.45	10.50	696.95	696.95	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+87.86	2.50	697.06	697.06
BK. E. ABUT.	29+87.83	18.50	696.78	696.78	BK. E. ABUT.	29+89.24	10.50	696.92	696.92	BK. E. ABUT.	29+90.65	2.50	697.02	697.02

	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS - SPAN 2 & 3 (3 of 6)	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57 1011.3-BR	СООК 145 80
Engineers & Architects	PLOT SCALE = 99.9999 '/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125		CONTRACT NO. 60T43
	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S11 OF 43 SHEETS	ILLINOIS FED.	AID PROJECT

	EAST	BOUND	PGL		<u>CL 167TH S</u>	TREET & S	STAGE CO	ONSTRUCTIO	<u>N JOINT</u>		WES	TBOUND) PGL	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	27+51.61	2.00	697.02	697.02	BK. W. ABUT.	27+51.97	0.00	697.06	697.06	BK. W. ABUT.	27+52.32	-2.00	697.03	697.03
CL. BRG. W. ABUT. AT PL GIRDERS	27+54.41	2.00	697.05	697.05	CL. BRG. W. ABUT. At PL GIRDERS	27+54.76	0.00	697.09	697.09	CL. BRG. W. ABUT. At PL GIRDERS	27+55.11	-2.00	697.06	697.06
D	27+64.41	2.00	697.17	697.21	D	27+64.76		697.20	697.25	D	27+65.11	-2.00	697.17	697.22
E E	27+74.41	2.00	697.27	697.36	E	27+74.76		697.30	697.39	E	27+75.11	-2.00	697.27	697.36
F F	27+84.41	2.00	697.36	697.48	F	27+84.76		697.39	697.51	F	27+85.11	-2.00	697.37	697.49
G	27+94.41	2.00	697.44	697.58	G	27+94.76		697.48	697.62	G	27+95.11	-2.00	697.45	697.58
н	28+04.41	2.00	697.51	697.65	H	28+04.76	0.00	697.55	697.69	H	28+05.11	-2.00	697.52	697.66
	28+14.41	2.00	697.58	697.70	I	28+14.76	0.00	697.61	697.74		28+15.11	-2.00	697.58	697.71
J	28+24.41	2.00	697.63	697.73	J	28+24.76	0.00	697.66	697.76	J	28+25.11	-2.00	697.63	697.74
К	28+34.41	2.00	697.67	697.74	К	28+34.76	0.00	697.70	697.77	К	28+35.11	-2.00	697.67	697.75
L L	28+44.41	2.00	697.70	697.75	L	28+44.76	0.00	697.73	697.77	L	28+45.11	-2.00	697.70	697.75
M	28+54.41	2.00	697.73	697.75	M	28+54.76	0.00	697.76	697.78	M	28+55.11	-2.00	697.73	697.75
N	28+64.41	2.00	697.74	697.74	N	28+64.76	0.00	697.77	697.78	N	28+65.11	-2.00	697.74	697.74
CL BRG. PIER	28+71.18	2.00	697.74	697.74	CL BRG. PIER	28+71.53	0.00	697.77	697.77	CL BRG. PIER	28+71.88	-2.00	697.74	697.74
0	28+81.18	2.00	697.74	697.74	0	28+81.53		697.76	697.77	0	28+81.88	-2.00	697.73	697.74
P	28+91.18	2.00	697.72	697.75	Р	28+91.53	0.00	697.75	697.78	Р	28+91.88	-2.00	697.72	697.75
Q	29+01.18	2.00	697.70	697.75	Q	29+01.53	0.00	697.72	697.77	Q	29+01.88	-2.00	697.69	697.75
R	29+11.18	2.00	697.66	697.74	R	29+11.53		697.69	697.77	R	29+11.88	-2.00	697.66	697.74
ទី S	29+21.18	2.00	697.62	697.73	S	29+21.53	0.00	697.64	697.75	S	29+21.88	-2.00	697.61	697.72
7 T	29+31.18	2.00	697.56	697.69	Т	29+31.53	0.00	697.59	697.72	Т	29+31.88	-2.00	697.56	697.69
Ú U	29+41.18	2.00	697.50	697.64	U	29+41.53	0.00	697.52	697.66	U	29+41.88	-2.00	697.49	697.63
۵ V	29+51.18	2.00	697.42	697.56	V	29+51.53	0.00	697.45	697.58	V	29+51.88	-2.00	697.42	697.55
W ²	29+61.18	2.00	697.34	697.45	W	29+61.53	0.00	697.37	697.48	W	29+61.88	-2.00	697.33	697.44
N X	29+71.18	2.00	697.24	697.32	X	29+71.53	0.00	697.27	697.35	X	29+71.88	-2.00	697.24	697.31
Y	29+81.18	2.00	697.14	697.17	Y	29+81.53	0.00	697.17	697.20	Y	29+81.88	-2.00	697.13	697.16
수 식 같 같 같 【 CL. BRG. E. ABUT. AT PLATE GIRDERS	29+87.95	2.00	697.06	697.06	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+88.30	0.00	697.09	697.09	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+88.65	-2.00	697.05	697.05
BK. E. ABUT.	29+90.74	2.00	697.03	697.03	BK. E. ABUT.	29+91.09	0.00	697.06	697.06	BK. E. ABUT.	29+91.45	-2.00	697.02	697.02

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	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 2 & 3 (4 of 6)	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57 1011.3-BR	СООК 145 81
Engineers & Architects	PLOT SCALE = 99.9999 '/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125		CONTRACT NO. 60T43
Engineers & Architects	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S12 OF 43 SHEETS	ILLINOIS FED	AID PROJECT

	_	BEAM 7	-				BEAM 8					BEAM S	<u>)</u>	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	27+52.41	-2.50	697.02	697.02	BK. W. ABUT.	27+53.82	-10.50	696.92	696.92	BK. W. ABUT.	27+55.23	-18.50	696.78	696.78
CL. BRG. W. ABUT. AT PL GIRDERS	27+55.20	-2.50	697.06	697.06	CL. BRG. W. ABUT. AT PL GIRDERS	27+56.61	-10.50	696.95	696.95	CL. BRG. W. ABUT. AT PL GIRDERS	27+58.02	-18.50	696.81	696.81
D	27+65.20	-2.50	697.17	697.22	D	27+66.61	-10.50	697.06	697.11	D	27+68.02	-18.50	696.92	696.98
E	27+75.20	-2.50	697.27	697.36	E	27+76.61	-10.50	697.16	697.25	E	27+78.02	-18.50	697.02	697.12
F	27+85.20	-2.50	697.36	697.48	F	27+86.61	-10.50	697.25	697.38	F	27+88.02	-18.50	697.11	697.24
G	27+95.20	-2.50	697.44	697.58	G	27+96.61	-10.50	697.33	697.47	G	27+98.02	-18.50	697.19	697.34
Н	28+05.20	-2.50	697.51	697.65	Н	28+06.61	-10.50	697.40	697.55	Н	28+08.02	-18.50	697.26	697.41
I	28+15.20	-2.50	697.57	697.70	I	28+16.61	-10.50	697.46	697.59	I	28+18.02	-18.50	697.32	697.45
J	28+25.20	-2.50	697.62	697.73	J	28+26.61	-10.50	697.51	697.62	J	28+28.02	-18.50	697.36	697.48
К	28+35.20	-2.50	697.67	697.74	К	28+36.61	-10.50	697.55	697.63	К	28+38.02	-18.50	697.40	697.48
L	28+45.20	-2.50	697.70	697.74	L	28+46.61	-10.50	697.58	697.62	L	28+48.02	-18.50	697.43	697.48
М	28+55.20	-2.50	697.72	697.74	М	28+56.61	-10.50	697.60	697.62	M	28+58.02	-18.50	697.45	697.47
N	28+65.20	-2.50	697.73	697.74	N	28+66.61	-10.50	697.61	697.61	N	28+68.02	-18.50	697.46	697.46
CL BRG. PIER	28+71.97	-2.50	697.73	697.73	CL BRG. PIER	28+73.38	-10.50	697.61	697.61	CL BRG. PIER	28+74.79	-18.50	697.46	697.46
0	28+81.97	-2.50	697.73	697.74	О	28+83.38	-10.50	697.60	697.61	О	28+84.79	-18.50	697.45	697.46
Р	28+91.97	-2.50	697.71	697.74	Р	28+93.38	-10.50	697.58	697.61	Р	28+94.79	-18.50	697.43	697.46
Q	29+01.97	-2.50	697.69	697.74	Q	29+03.38	-10.50	697.56	697.61	Q	29+04.79	-18.50	697.40	697.46
R	29+11.97	-2.50	697.65	697.73	R	29+13.38	-10.50	697.52	697.61	R	29+14.79	-18.50	697.36	697.46
S	29+21.97	-2.50	697.60	697.72	S	29+23.38	-10.50	697.47	697.59	S	29+24.79	-18.50	697.32	697.44
Т	29+31.97	-2.50	697.55	697.68	Т	29+33.38	-10.50	697.42	697.56	Т	29+34.79		697.26	697.40
U	29+41.97	-2.50	697.48	697.62	U	29+43.38	-10.50	697.35	697.50	U	29+44.79	-18.50	697.19	697.34
V	29+51.97	-2.50	697.41	697.54	V	29+53.38	-10.50	697.27	697.42	V	29+54.79	-18.50	697.11	697.26
W	29+61.97	-2.50	697.32	697.43	W	29+63.38	-10.50	697.19	697.31	W	29+64.79	-18.50	697.02	697.15
Х	29+71.97	-2.50	697.23	697.31	Х	29+73.38	-10.50	697.09	697.17	X	29+74.79		696.93	697.01
Ŷ	29+81.97	-2.50	697.12	697.16	Ý	29+83.38		696.98	697.02	Ŷ	29+84.79		696.82	696.85
CL. BRG. E. ABUT. AT PLATE GIRDERS	29+88.74	-2.50	697.04	697.04	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+90.15	-10.50	696.90	696.90	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+91.56	-18.50	696.74	696.74
BK. E. ABUT.	29+91.53	-2.50	697.01	697.01	BK. E. ABUT.	29+92.94	-10.50	696.87	696.87	BK. E. ABUT.	29+94.35	-18.50	696.70	696.70

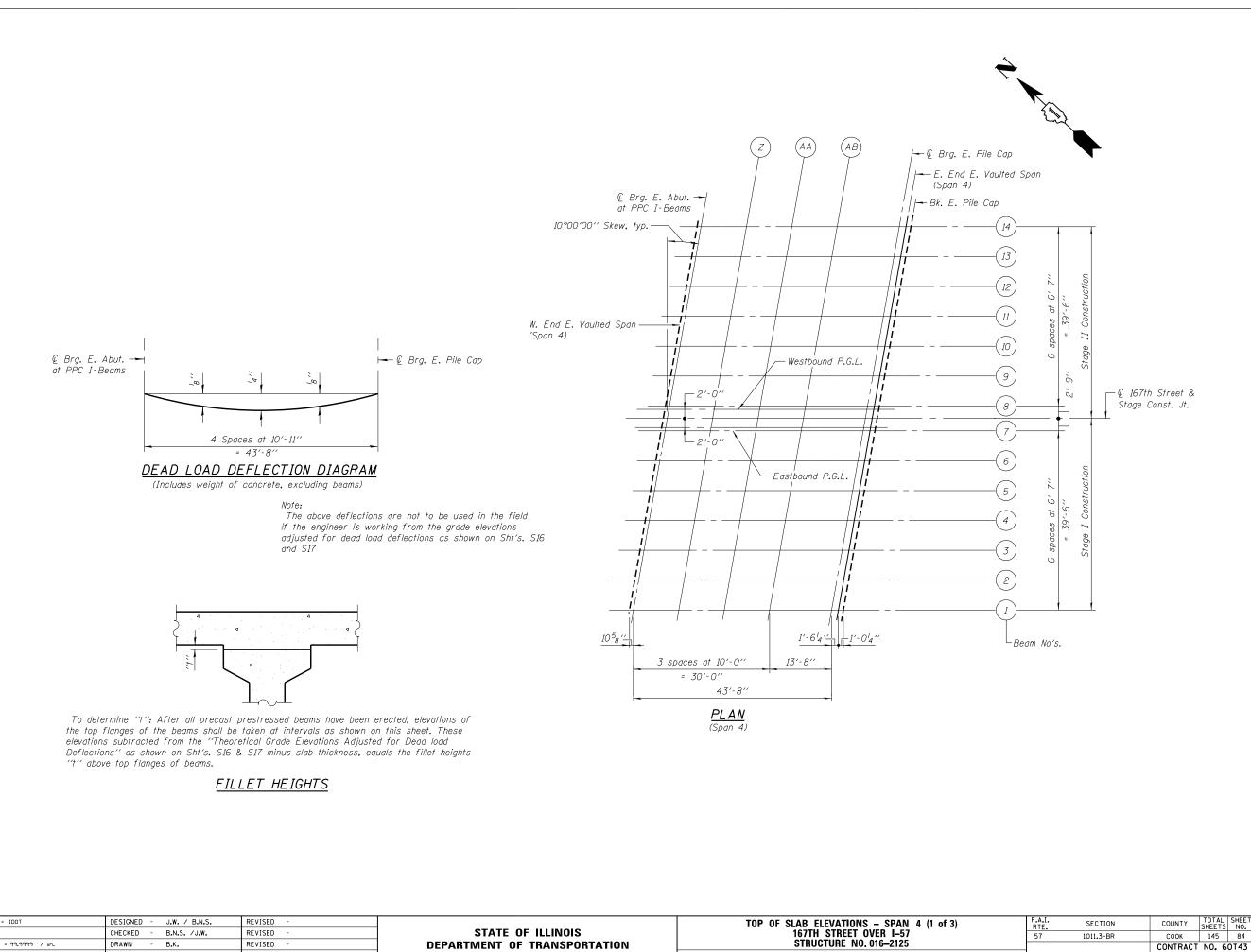
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ш		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 2 & 3 (5 of 6)	F.A.I. BTE	SECTION	COUNTY TOTAL SHEE
MAN	NIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	COOK 145 82
нн 1 ГЕ	Engineers & Architects	PLOT SCALE = 99.9999 '/ in. PLOT DATE = 6/19/2018	DRAWN - B.K. DATE - JUNE 2018	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-2125 SHEET NO. S13 OF 43 SHEETS		ILLINOIS FED. A	CONTRACT NO. 60T43

	<u> </u>	BEAM 10	<u>)</u>				BEAM 1	<u>1</u>			<u> </u>	BEAM 12	2	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
BK. W. ABUT.	27+56.64	-26.50	696.63	696.63	BK. W. ABUT.	27+58.05	-34.50	696.48	696.48	BK. W. ABUT.	27+59.46	-42.50	696.33	696.33
CL. BRG. W. ABUT. AT PL GIRDERS	27+59.43	-26.50	696.66	696.66	CL. BRG. W. ABUT. AT PL GIRDERS	27+60.84	-34.50	696.51	696.51	CL. BRG. W. ABUT. AT PL GIRDERS	27+62.25	-42.50	696.36	696.36
D	27+69.43	-26.50	696.77	696.82	D	27+70.84	-34.50	696.62	696.67	D	27+72.25	-42.50	696.47	696.51
E	27+79.43	-26.50	696.87	696.97	E	27+80.84	-34.50	696.71	696.81	E	27+82.25	-42.50	696.56	696.64
F	27+89.43	-26.50	696.95	697.09	F	27+90.84	-34.50	696.80	696.93	F	27+92.25	-42.50	696.64	696.76
G	27+99.43	-26.50	697.03	697.18	G	28+00.84	-34.50	696.88	697.02	G	28+02.25	-42.50	696.72	696.85
Н	28+09.43	-26.50	697.10	697.25	н	28+10.84	-34.50	696.94	697.09	Н	28+12.25	-42.50	696.78	696.91
I	28+19.43	-26.50	697.16	697.29	1	28+20.84	-34.50	697.00	697.13		28+22.25	-42.50	696.84	696.96
J	28+29.43	-26.50	697.20	697.32	J	28+30.84	-34.50	697.04	697.16	J	28+32.25	-42.50	696.88	696.98
К	28+39.43	-26.50	697.24	697.32	к	28+40.84	-34.50	697.08	697.16	К	28+42.25	-42.50	696.92	696.98
L	28+49.43	-26.50	697.27	697.31	L	28+50.84	-34.50	697.10	697.15	L	28+52.25	-42.50	696.94	696.98
М	28+59.43	-26.50	697.28	697.31	М	28+60.84	-34.50	697.12	697.14	М	28+62.25	-42.50	696.95	696.97
Ν	28+69.43	-26.50	697.29	697.30	Ν	28+70.84	-34.50	697.13	697.13	Ν	28+72.25	-42.50	696.96	696.96
CL BRG. PIER	28+76.20	-26.50	697.29	697.29	CL BRG. PIER	28+77.61	-34.50	697.12	697.12	CL BRG. PIER	28+79.02	-42.50	696.96	696.96
0	28+86.20	-26.50	697.28	697.29	О	28+87.61	-34.50	697.11	697.12	О	28+89.02	-42.50	696.94	696.95
Р	28+96.20	-26.50	697.26	697.29	Р	28+97.61	-34.50	697.09	697.12	Р	28+99.02	-42.50	696.92	696.95
Q	29+06.20	-26.50	697.23	697.29	Q	29+07.61	-34.50	697.06	697.12	Q	29+09.02	-42.50	696.89	696.94
R	29+16.20	-26.50	697.19	697.28	R	29+17.61	-34.50	697.02	697.11	R	29+19.02	-42.50	696.85	696.92
S	29+26.20	-26.50	697.14	697.26	S	29+27.61	-34.50	696.97	697.09	S	29+29.02	-42.50	696.79	696.90
Т	29+36.20	-26.50	697.08	697.23	Т	29+37.61	-34.50	696.91	697.05	Т	29+39.02	-42.50	696.73	696.86
U	29+46.20	-26.50	697.01	697.17	U	29+47.61	-34.50	696.84	696.99	U	29+49.02	-42.50	696.66	696.79
V	29+56.20	-26.50	696.93	697.08	V	29+57.61	-34.50	696.75	696.90	V	29+59.02	-42.50	696.58	696.70
W	29+66.20	-26.50	696.84	696.97	W	29+67.61	-34.50	696.66	696.79	W	29+69.02	-42.50	696.48	696.59
х	29+76.20	-26.50	696.74	696.83	X	29+77.61	-34.50	696.56	696.65	X	29+79.02	-42.50	696.38	696.45
Y	29+86.20	-26.50	696.63	696.67	Y	29+87.61	-34.50	696.45	696.49	Y	29+89.02	-42.50	696.27	696.30
CL. BRG. E. ABUT. AT PLATE GIRDERS	29+92.97	-26.50	696.55	696.55	CL. BRG. E. ABUT. AT PLATE GIRDERS	29+94.38	-34.50	696.37	696.37	CL. BRG. E. ABUT. AT PLATE GIRDER	29+95.79	-42.50	696.19	696.19
BK. E. ABUT.	29+95.77	-26.50	696.52	696.52	BK. E. ABUT.	29+97.18	-34.50	696.34	696.34	BK. E. ABUT.	29+98.59	-42.50	696.15	696.15

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NAME =	

	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS - SPAN 2 & 3 (6 of 6)	F.A.I. RTF.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57 STRUCTURE NO. 016-2125	57	1011 . 3-BR	СООК 145 83
Engineers & Arc	PLOT SCALE = 99,9999 '/ In. PLOT DATE = 6/19/2018	DRAWN - B.K. DATE - JUNE 2018	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NU. 010-2125 SHEET NO. S14 OF 43 SHEETS		ILLINOIS FEE	CONTRACT NO. 60T43



KNIGHT	USER NAME = IDOT	DESIGNED - CHECKED -	J.W. / B.N.S. B.N.S. /J.W.	REVISED - REVISED -	STATE OF ILLINOIS	TOP OF SLAB ELEVATIONS 167TH STREET OV
	PLOT SCALE = 99.9999 '/ m.	DRAWN -	В.К.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 0
Engineers & Architects	PLOT DATE = 6/19/2018	DATE -	JUNE 2018	REVISED -		SHEET NO. S15 OF 43

43 SHEETS ILLINOIS FED. AID PROJECT

		<u>BEAM 1</u>					BEAM 2					BEAM 3		
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
W. END E. VAULTED SPAN (SPAN 4)	29+81.87	42.25	696.36	696.36	W. END E. VAULTED SPAN (SPAN 4)	29+83.03	35.67	696.48	696.48	W. END E. VAULTED SPAN (SPAN 4)	29+84.19	29.08	696.60	696.60
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+82.76	42.25	696.35	696.35	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+83.92	35.67	696.47	696.47	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+85.08	29.08	696.59	696.59
Z	29+92.76	42.25	696.26	696.27	Z	29+93.92	35.67	696.39	696.40	Z	29+95.08	29.08	696.52	696.54
AA	30+02.76	42.25	696.21	696.23	AA	30+03.92	35.67	696.34	696.36	AA	30+05.08	29.08	696.47	696.49
AB	30+12.76	42.25	696.15	696.16	AB	30+13.92	35.67	696.27	696.29	AB	30+15.08	29.08	696.40	696.42
CL BRG. E. PILE CAP	30+26.42	42.25	696.05	696.05	CL BRG. E. PILE CAP	30+27.58	35.67	696.17	696.17	CL BRG. E. PILE CAP	30+28.75	29.08	696.30	696.30
E. END E. VAULTED SPAN (SPAN 4)	30+27.94	42.25	696.03	696.03	E. END E. VAULTED SPAN (SPAN 4)	30+29.11	35.67	696.16	696.16	E. END E. VAULTED SPAN (SPAN 4)	30+30.27	29.08	696.29	696.29
BK. E. PILE CAP	30+28.97	42.25	696.03	696.03	BK. E. PILE CAP	30+30.13	35.67	696.15	696.15	BK. E. PILE CAP	30+31.29	29.08	696.28	696.28

	BEAM 4						BEAM 5			<u>BEAM 6</u>					
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	
W. END E. VAULTED SPAN (SPAN 4)	29+85.35	22.50	696.73	696.73	W. END E. VAULTED SPAN (SPAN 4)	29+86.52	15.92	696.85	696.85	W. END E. VAULTED SPAN (SPAN 4)	29+87.68	9.33	696.93	696.93	
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+86.24	22.50	696.72	696.72	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+87.40	15.92	696.84	696.84	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+88.56	9.33	696.94	696.94	
Z	29+96.24	22.50	696.64	696.66	Z	29+97.40	15.92	696.76	696.77	Z	29+98.56	9.33	696.84	696.86	
AA	30+06.24	22.50	696.58	696.60	AA	30+07.40	15.92	696.67	696.69	AA	30+08.56	9.33	696.73	696.75	
AB	30+16.24	22.50	696.50	696.52	AB	30+17.40	15.92	696.57	696.59	AB	30+18.56	9.33	696.61	696.63	
CL BRG. E. PILE CAP	30+29.91	22.50	696.38	696.38	CL BRG. E. PILE CAP	30+31.07	15.92	696.42	696.42	CL BRG. E. PILE CAP	30+32.23	9.33	696.43	696.43	
E. END E. VAULTED SPAN (SPAN 4)	30+31.43	22.50	696.37	696.37	E. END E. VAULTED SPAN (SPAN 4)	30+32.59	15.92	696.41	696.41	E. END E. VAULTED SPAN (SPAN 4)	30+33.75	9.33	696.41	696.41	
BK. E. PILE CAP	30+32.45	22.50	696.36	696.36	BK. E. PILE CAP	30+33.61	15.92	696.39	696.39	BK. E. PILE CAP	30+34.77	9.33	696.40	696.40	

	BEAM 7					EAS	TBOUND	PGL		CL 167TH STREET & STAGE CONSTRUCTION JOINT					
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	
W. END E. VAULTED SPAN (SPAN 4)	29+88.84	2.75	697.04	697.04	W. END E. VAULTED SPAN (SPAN 4)	29+88.97	2.00	697.05	697.05	W. END E. VAULTED SPAN (SPAN 4)	29+89.32	0.00	697.08	697.08	
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+89.72	2.75	697.03	697.03	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+89.85	2.00	697.04	697.04	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+90.21	0.00	697.07	697.07	
Z	29+99.72	2.75	696.91	696.92	Z	29+99.85	2.00	696.92	696.93	Z	30+00.21	0.00	696.94	696.96	
AA AB	30+09.72 30+19.72	2.75 2.75	696.78 696.64	696.80 696.66	AA AB	30+09.85 30+19.85	2.00 2.00	696.78 696.64	696.81 696.66	AA AB	30+10.21 30+20.21	0.00 0.00	696.81 696.66	696.83 696.68	
Ab	50115.72	2.75	050.04	050.00	Ab	30113.85	2.00	050.04	050.00	AD	30120.21	0.00	050.00	050.08	
CL BRG. E. PILE CAP	30+33.39	2.75	696.43	696.43	CL BRG. E. PILE CAP	30+33.52	2.00	696.43	696.43	CL BRG. E. PILE CAP	30+33.87	0.00	696.45	696.45	
E. END E. VAULTED SPAN (SPAN 4)	30+34.91	2.75	696.40	696.40	E. END E. VAULTED SPAN (SPAN 4)	30+35.04	2.00	696.40	696.40	E. END E. VAULTED SPAN (SPAN 4)	30+35.39	0.00	696.43	696.43	
BK. E. PILE CAP	30+35.93	2.75	696.39	696.39	BK. E. PILE CAP	30+36.06	2.00	696.39	696.39	BK. E. PILE CAP	30+36.42	0.00	696.41	696.41	

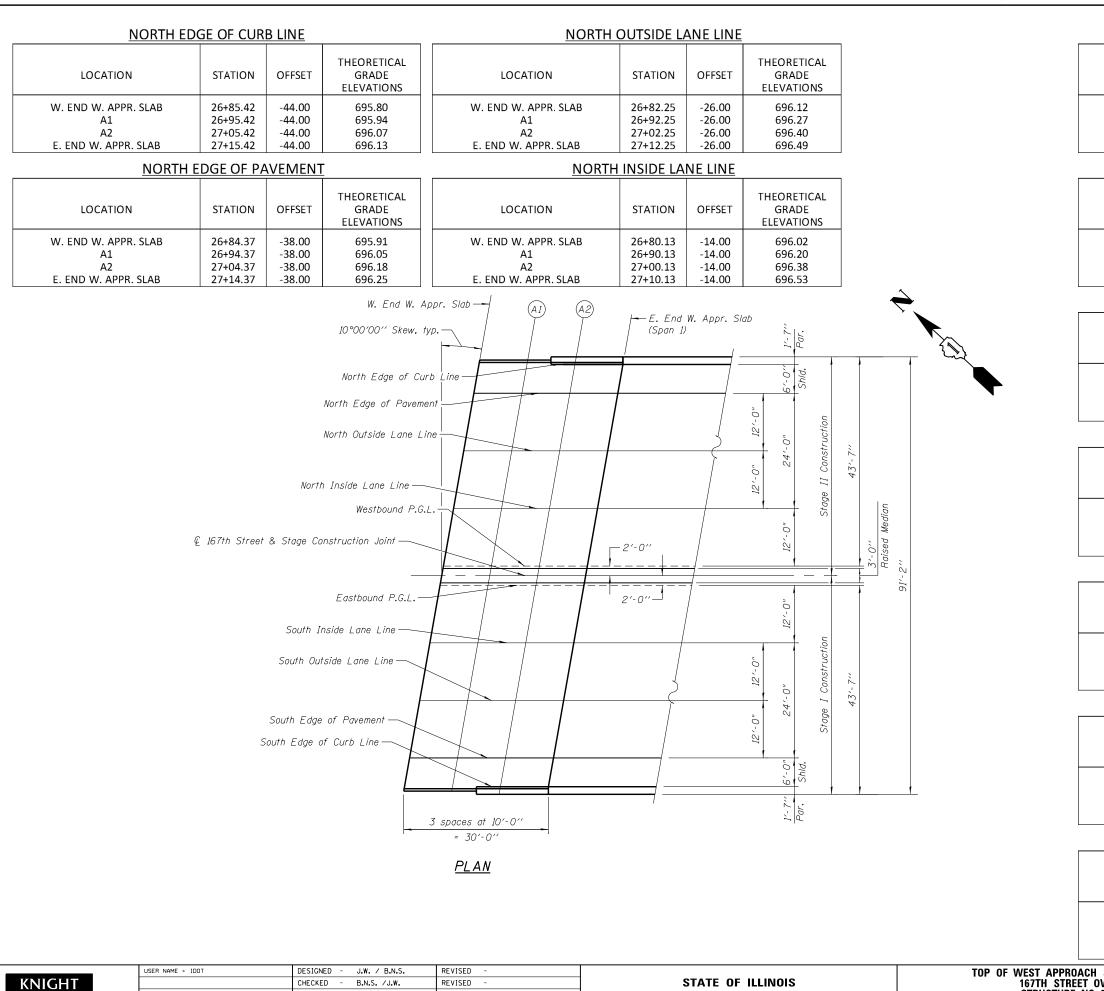
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ш.		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 4 (2 of 3)	F.A.I. BIE	SECTION	COUNTY TOTAL SHEET
ΜA	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК 145 85
∠ Ш		PLOT SCALE = 99.9999 1/ In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRACT NO. 60T43
Η	Engineers & Architects	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S16 OF 43 SHEETS		ILLINOIS FF	ED. AID PROJECT

	WES	TBOUND	<u>) PGL</u>				BEAM 8			BEAM 9					
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	
W. END E. VAULTED SPAN (SPAN 4)	29+89.67	-2.00	697.04	697.04	W. END E. VAULTED SPAN (SPAN 4)	29+89.81	-2.75	697.03	697.03	W. END E. VAULTED SPAN (SPAN 4)	29+90.97	-9.33	696.91	696.91	
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+90.56	-2.00	697.03	697.03	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+90.69	-2.75	697.02	697.02	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+91.85	-9.33	696.90	696.90	
Z AA AB	30+00.56 30+10.56 30+20.56	-2.00 -2.00 -2.00	696.91 696.77 696.63	696.92 696.80 696.65	Z AA AB	30+00.69 30+10.69 30+20.69	-2.75 -2.75 -2.75	696.89 696.76 696.62	696.91 696.78 696.63	Z AA AB	30+01.85 30+11.85 30+21.85	-9.33 -9.33 -9.33	696.78 696.64 696.50	696.79 696.66 696.51	
CL BRG. E. PILE CAP	30+34.23	-2.00	696.42	696.42	CL BRG. E. PILE CAP	30+34.36	-2.75	696.40	696.40	CL BRG. E. PILE CAP	30+35.52	-9.33	696.28	696.28	
E. END E. VAULTED SPAN (SPAN 4) BK. E. PILE CAP	30+35.75 30+36.77	-2.00 -2.00	696.39 696.37	696.39 696.37	E. END E. VAULTED SPAN (SPAN 4) BK. E. PILE CAP	30+35.88 30+36.90	-2.75 -2.75	696.38 696.36	696.38 696.36	E. END E. VAULTED SPAN (SPAN 4) BK. E. PILE CAP	30+37.04 30+38.06	-9.33 -9.33	696.26 696.24	696.26 696.24	

	BEAM 10						BEAM 11	<u>-</u>		<u>BEAM 12</u>					
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	
W. END E. VAULTED SPAN (SPAN 4)	29+92.13	-15.92	696.78	696.78	W. END E. VAULTED SPAN (SPAN 4)	29+93.29	-22.50	696.63	696.63	W. END E. VAULTED SPAN (SPAN 4)	29+94.45	-29.08	696.48	696.48	
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+93.01	-15.92	696.77	696.77	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+94.17	-22.50	696.62	696.62	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+95.34	-29.08	696.47	696.47	
Z	30+03.01	-15.92	696.65	696.66	Z	30+04.17	-22.50	696.50	696.51	Z	30+05.34	-29.08	696.34	696.36	
AA	30+13.01	-15.92	696.51	696.53	AA	30+14.17	-22.50	696.36	696.38	AA	30+15.34	-29.08	696.20	696.23	
AB	30+23.01	-15.92	696.36	696.38	AB	30+24.17	-22.50	696.21	696.23	AB	30+25.34	-29.08	696.06	696.07	
CL BRG. E. PILE CAP	30+36.68	-15.92	696.15	696.15	CL BRG. E. PILE CAP	30+37.84	-22.50	695.99	695.99	CL BRG. E. PILE CAP	30+39.00	-29.08	695.84	695.84	
E. END E. VAULTED SPAN (SPAN 4)	30+38.20	-15.92	696.12	696.12	E. END E. VAULTED SPAN (SPAN 4)	30+39.36	-22.50	695.97	695.97	E. END E. VAULTED SPAN (SPAN 4)	30+40.52	-29.08	695.81	695.81	
BK. E. PILE CAP	30+39.22	-15.92	696.11	696.11	BK. E. PILE CAP	30+40.38	-22.50	695.95	695.95	BK. E. PILE CAP	30+41.54	-29.08	695.79	695.79	

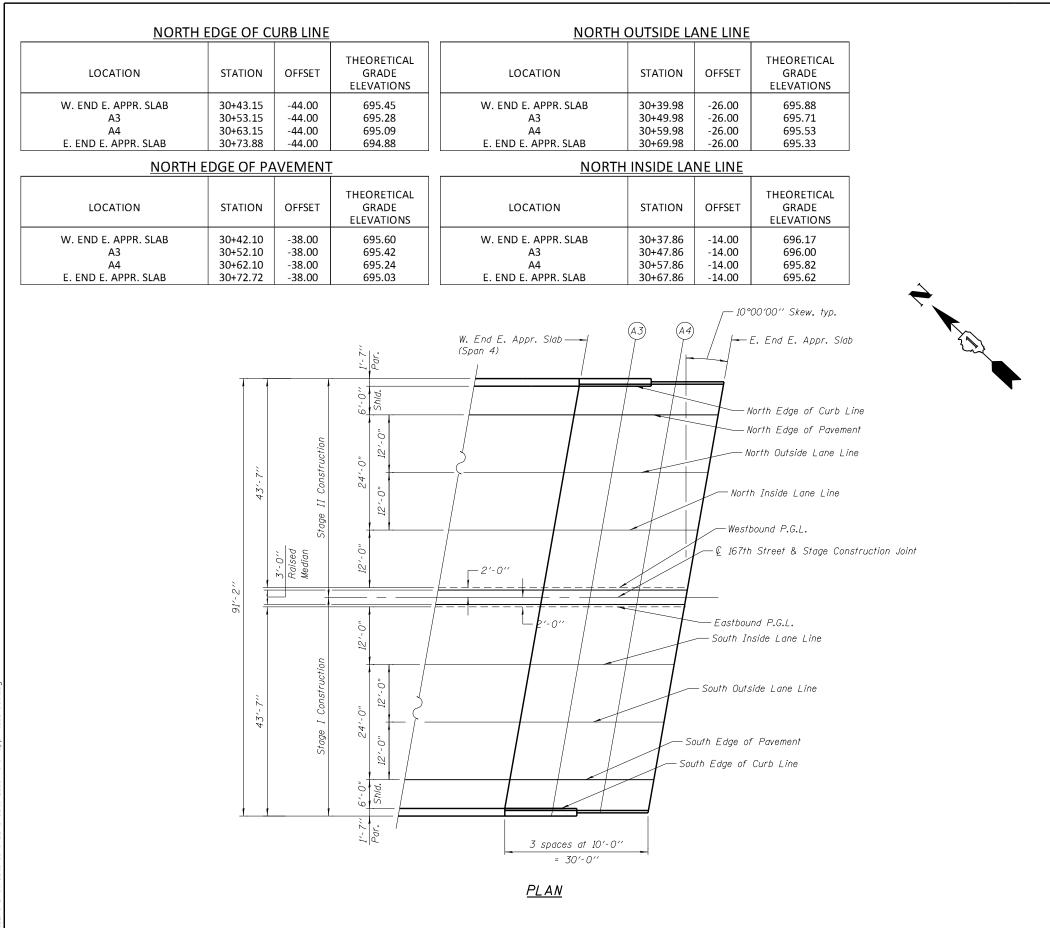
		BEAM 13	_			_	BEAM 14	<u>L</u>	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS	LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
W. END E. VAULTED SPAN (SPAN 4)	29+95.61	-35.67	696.33	696.33	W. END E. VAULTED SPAN (SPAN 4)	29+96.77	-42.25	696.18	696.18
CL. BRG. E. ABUT. AT PPC I-BEAMS	29+96.50	-35.67	696.32	696.32	CL. BRG. E. ABUT. AT PPC I-BEAMS	29+97.66	-42.25	696.17	696.17
Z	30+06.50	-35.67	696.19	696.21	Z	30+07.66	-42.25	696.04	696.05
AA	30+16.50	-35.67	696.05	696.07	AA	30+17.66	-42.25	695.90	695.92
AB	30+26.50	-35.67	695.90	695.92	AB	30+27.66	-42.25	695.74	695.76
CL BRG. E. PILE CAP	30+40.16	-35.67	695.68	695.68	CL BRG. E. PILE CAP	30+41.32	-42.25	695.52	695.52
E. END E. VAULTED SPAN (SPAN 4)	30+41.68	-35.67	695.65	695.65	E. END E. VAULTED SPAN (SPAN 4)	30+42.84	-42.25	695.50	695.50
BK. E. PILE CAP	30+42.70	-35.67	695.64	695.64	BK. E. PILE CAP	30+43.87	-42.25	695.48	695.48

ш	_	USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF SLAB ELEVATIONS – SPAN 4 (3 of 3)	F.A.I. BTE	SECTION		OTAL SHEET
MAM	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК	145 86
щ —	Engineers & Architects	PLOT SCALE = 99.9999 1/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRACT N	NO. 60T43
II.	Lighters & Architects	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S17 OF 43 SHEETS		ILLINOIS FED.	AID PROJECT	



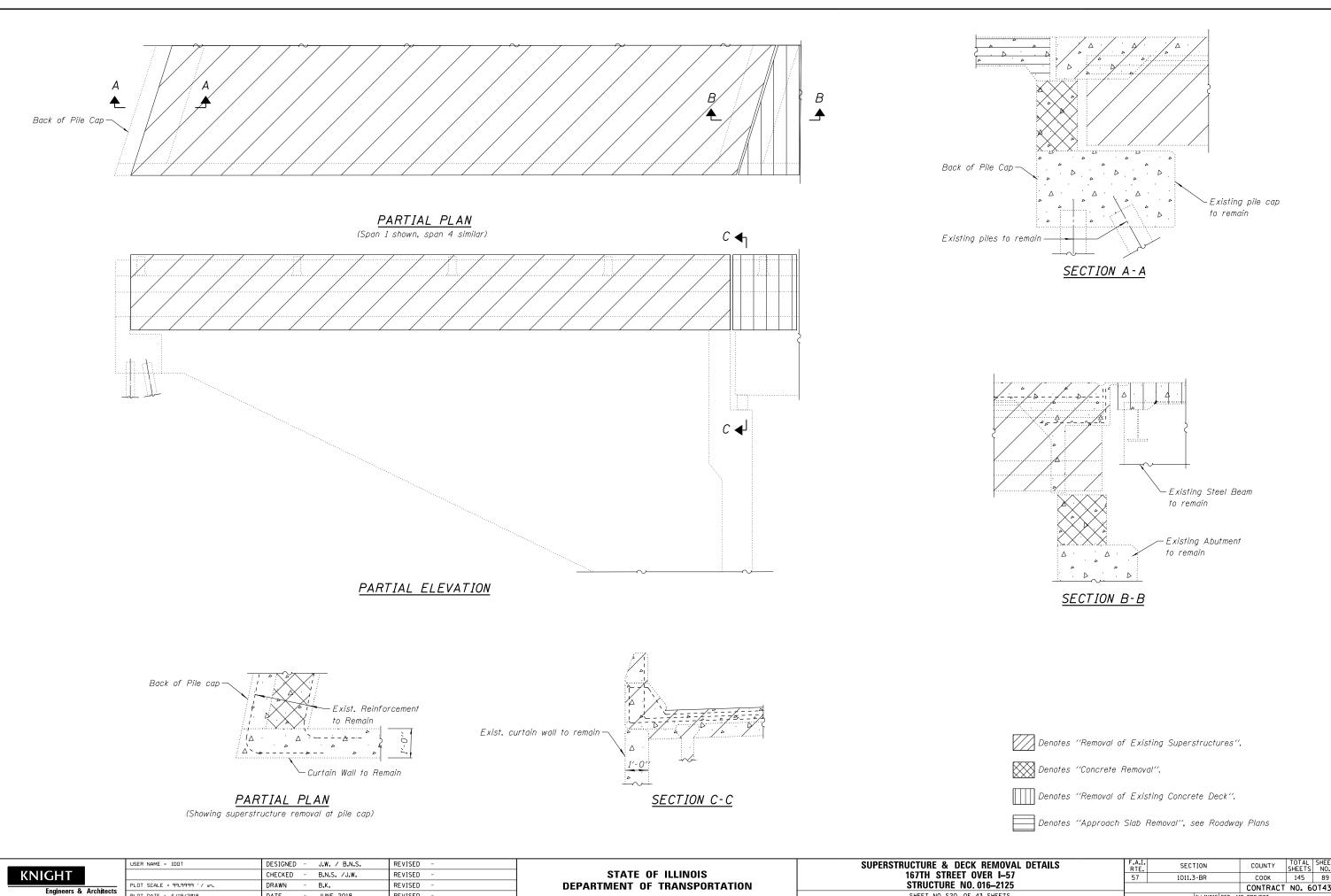
		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		ТОР
Ţ	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	
- -		PLOT SCALE = 99.9999 '/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	
-	Engineers & Architects	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		

\\//	STBOUND	PGI	
<u></u>			
			THEORETICAL
LOCATION	STATION	OFFSET	GRADE
			ELEVATIONS
W. END W. APPR. SLAB	26+78.02	-2.00	695.87
A1	26+88.02	-2.00	696.06
A2 E. END W. APPR. SLAB	26+98.02 27+08.02	-2.00 -2.00	696.23 696.40
E. END W. APPR. SLAB	27+08.02	-2.00	090.40
<u>CL 167TH STREET & S</u>	TAGE CONS	TRUCTIO	<u>N JOINT</u>
			THEODETICAL
LOCATION	STATION	OFFSET	THEORETICAL GRADE
LOCATION	STATION	UFF3ET	ELEVATIONS
	20.77.07	0.00	
W. END W. APPR. SLAB A1	26+77.67 26+87.67	0.00 0.00	695.89 696.08
A2	26+97.67	0.00	696.26
E. END W. APPR. SLAB	27+07.67	0.00	696.43
FΔ	STBOUND	PGI	
<u> </u>			
			THEORETICAL
LOCATION	STATION	OFFSET	GRADE
			ELEVATIONS
W. END W. APPR. SLAB	26+77.31	2.00	695.85
A1 A2	26+87.31 26+97.31	2.00 2.00	696.04 696.22
E. END W. APPR. SLAB	27+07.31	2.00	696.39
SOUT	I INSIDE LA		
			THEORETICAL
LOCATION	STATION	OFFSET	GRADE
			ELEVATIONS
W. END W. APPR. SLAB	26+75.20	14.00	695.63
A1	26+85.20	14.00	695.82
A2 E. END W. APPR. SLAB	26+95.20 27+05.20	14.00 14.00	696.00 696.17
			050.17
SOUTH	<u>OUTSIDE LA</u>	<u>ANE LINE</u>	
			THEORETICAL
LOCATION	STATION	OFFSET	GRADE
			ELEVATIONS
W. END W. APPR. SLAB	26+73.08	26.00	695.33
A1	26+83.08	26.00	695.53
	26+93.08	26.00	695.71
E. END W. APPR. SLAB	27+03.08	26.00	695.88
<u>SOUTH I</u>	DGE OF PA	VEMENT	
			THEODETICAL
LOCATION	STATION	OFFSET	THEORETICAL GRADE
	SIATION	GIIJEI	ELEVATIONS
W. END W. APPR. SLAB	26+70.96	38.00	695.04
A1	26+80.96	38.00	695.24
A2	26+90.96	38.00	695.42
E. END W. APPR. SLAB	27+00.96	38.00	695.60
SOUTH	EDGE OF CI	JRB LINE	
		0	THEORETICAL
LOCATION	STATION	OFFSET	GRADE ELEVATIONS
	20.00.01	44.00	
W. END W. APPR. SLAB A1	26+69.91 26+79.91	44.00 44.00	694.90 695.09
A1 A2	26+89.91	44.00	695.28
E. END W. APPR. SLAB	26+99.91	44.00	695.45
WEST APPROACH SLAB ELEVATIONS	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
167TH STREET OVER I-57 STRUCTURE NO. 016-2125		011.3-BR	COOK 145 87
SHEET NO. SI8 OF 43 SHEETS		ILLINOIS FED.	AID PROJECT



ľ		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		TOP OF EAST APPROACH SL
	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER
-	Engineers & Architects	PLOT SCALE = 99.9999 '/ in.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016
1	Eligineers & Architects	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S19 OF 43 S

WE	STBOUND	<u>PGL</u>	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB A3 A4	30+35.75 30+45.75 30+55.75	-2.00 -2.00 -2.00	696.39 696.22 696.04
E. END E. APPR. SLAB	30+65.75	-2.00	695.85
<u>CL 167TH STREET & ST</u>	AGE CONS	TRUCTIO	<u>N JOINT</u>
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB	30+35.39	0.00	696.43
A3 A4	30+45.39 30+55.39	0.00 0.00	696.26 696.08
E. END E. APPR. SLAB	30+65.39	0.00	695.89
EAS	TBOUND I	PGL	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB A3 A4	30+35.04 30+45.04 30+55.04	2.00 2.00 2.00	696.40 696.23 696.06
E. END E. APPR. SLAB	30+55.04 30+65.04	2.00	695.87
<u>SOUTH</u>	INSIDE LA	NE LINE	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB A3	30+32.93 30+42.93	14.00 14.00	696.41 696.30
A4 E. END E. APPR. SLAB	30+52.93 30+62.93	14.00 14.00	696.19 696.07
SOUTH (DUTSIDE LA	ANE LINE	
			THEORETICAL
LOCATION	STATION	OFFSET	GRADE ELEVATIONS
W. END E. APPR. SLAB A3	30+30.81 30+40.81	26.00 26.00	696.35 696.26
A3 A4	30+40.81 30+50.81	26.00	696.17
E. END E. APPR. SLAB	30+60.81	26.00	696.06
<u>SOUTH E</u>	DGE OF PA	VEMENT	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB	30+28.69	38.00	696.12
A3 A4	30+38.69 30+48.69	38.00 38.00	696.03 695.96
E. END E. APPR. SLAB	30+58.69	38.00	695.87
<u>South E</u>	DGE OF CL	<u>JRB LINE</u>	
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
W. END E. APPR. SLAB A3 A4	30+27.64 30+37.64 30+47.64	44.00 44.00 44.00	696.00 695.92 695.85
E. END E. APPR. SLAB	30+47.64 30+57.64	44.00 44.00	695.77
ACH SLAB ELEVATIONS T_OVER 1–57	RIE.	SECTION D11.3-BR	COUNTY TOTAL SHEET SHEETS NO. COOK 145 88
NO. 016–2125 OF 43 SHEETS		ILLINOIS FED.	CONTRACT NO. 60T43
	1	Incruois FED.	



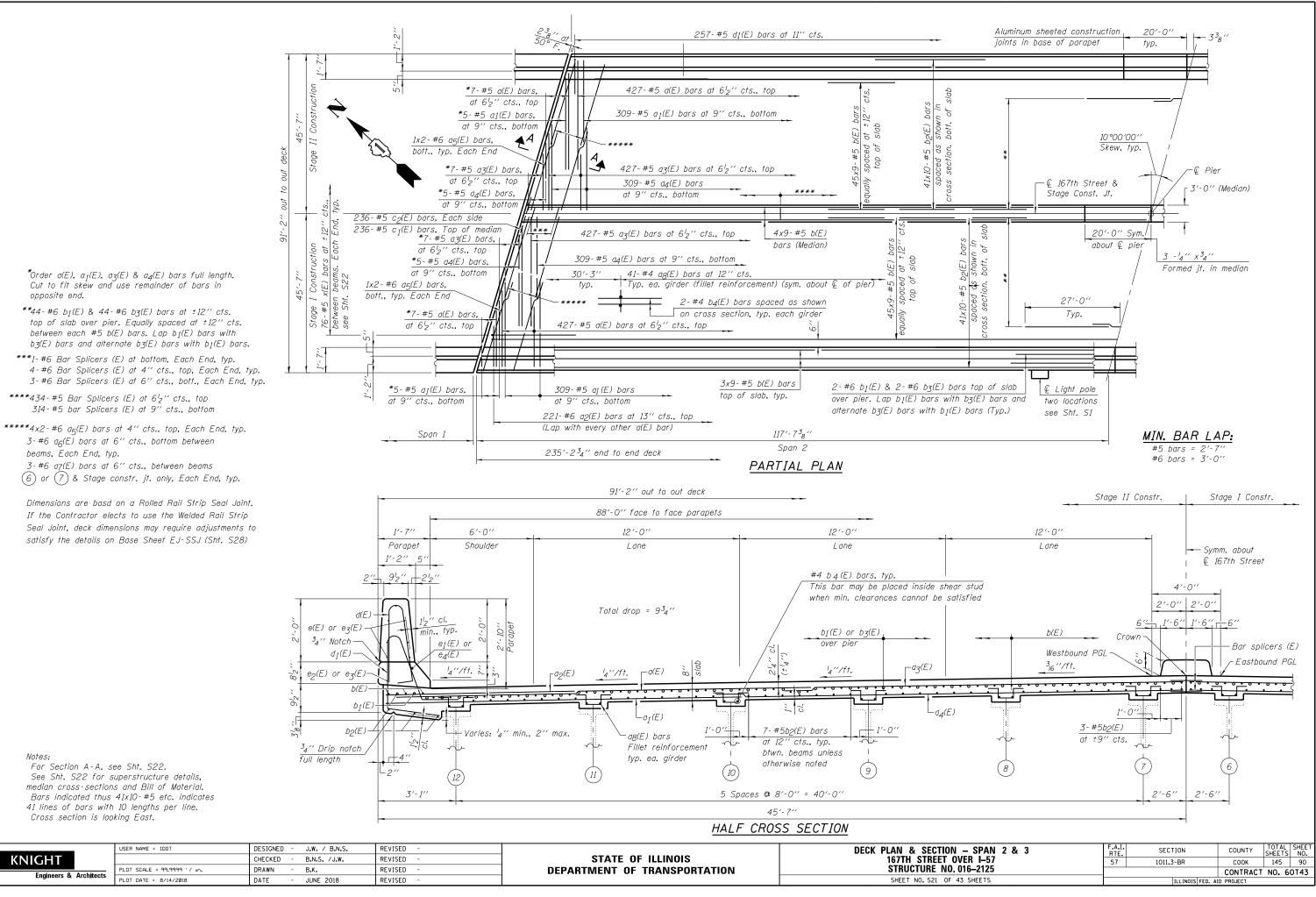
PLOT DATE = 6/19/2018

DATE

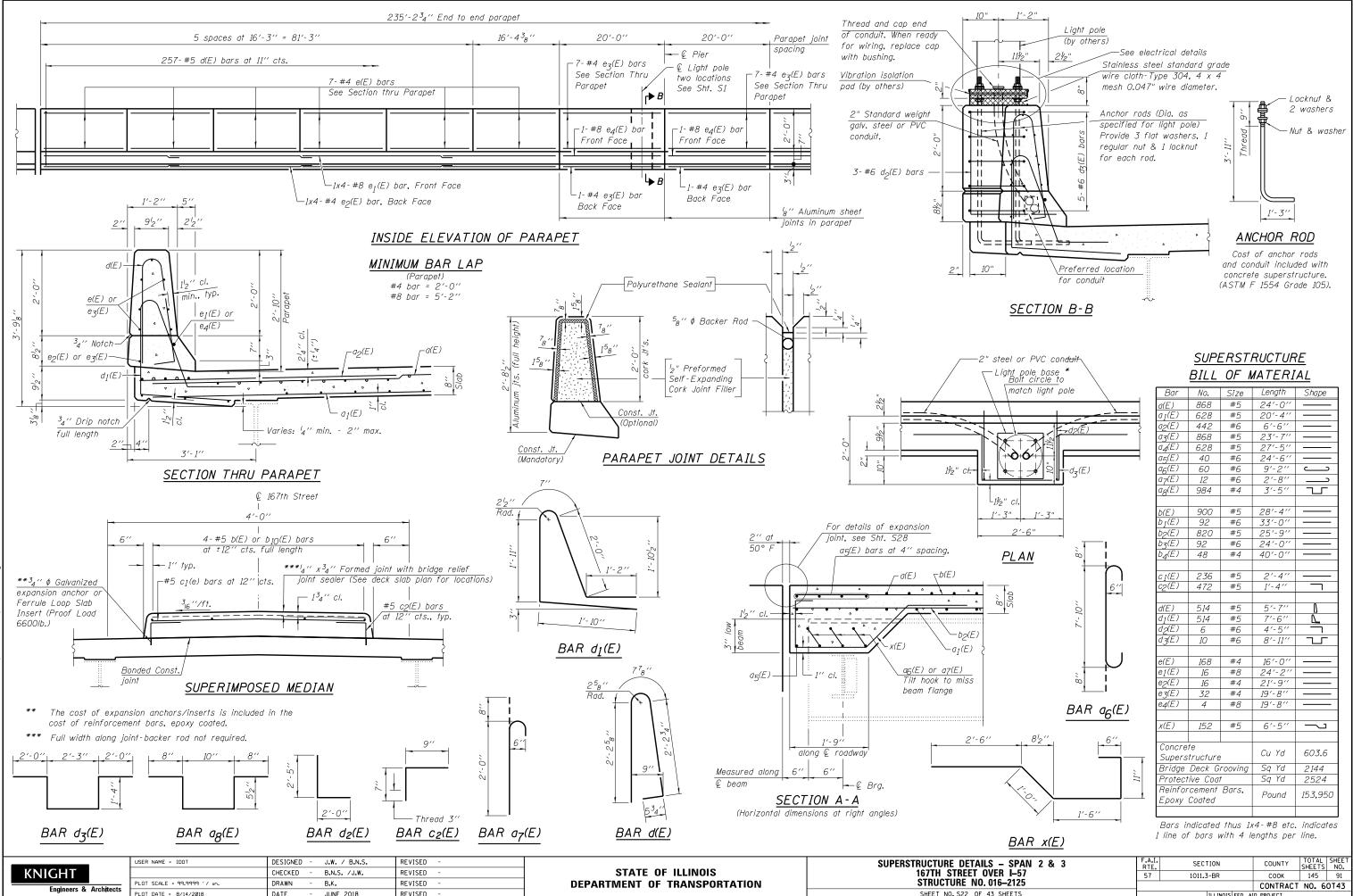
- JUNE 2018

REVISED

RUCTURE & DECK REMOVAL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
167TH STREET OVER I-57	57	1011.3-BR	СООК	145	89
STRUCTURE NO. 016–2125			CONTRACT	NO. 6	0T43
SHEET NO.S20 OF 43 SHEETS		ILLINOIS FED. A	ID PROJECT		



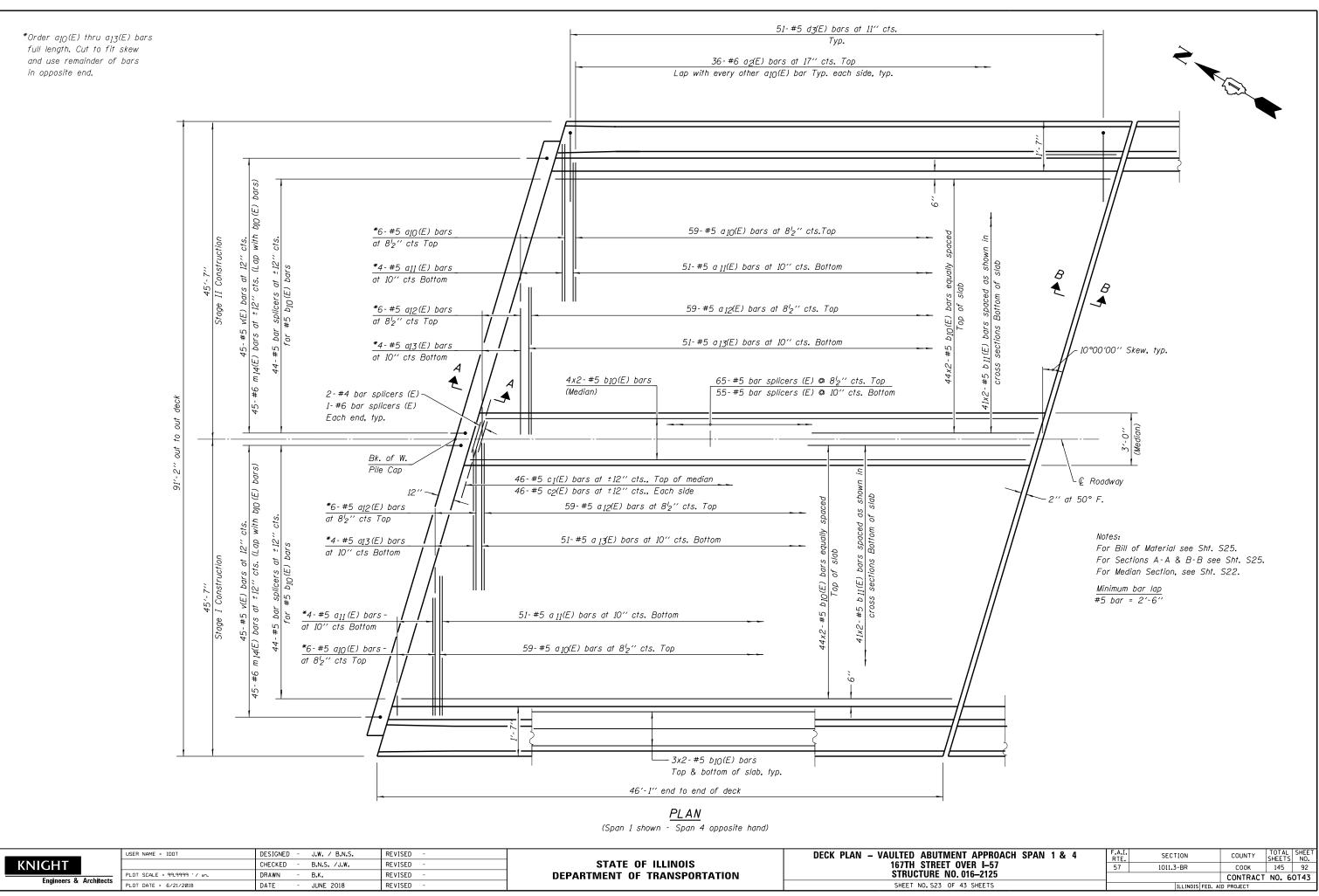
Engineers & Architects	Engineers & Architects	USER NAME = IDOT PLOT SCALE = 99.9999 // m. PLOT DATE = 8/14/2018	DESIGNED - J.W. / B.N.S. CHECKED - B.N.S. /J.W. DRAWN - B.K. DATE - JUNE 2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK PLAN & SECTION - 167TH STREET OVE STRUCTURE NO. 01 SHEET NO. S21 OF 43
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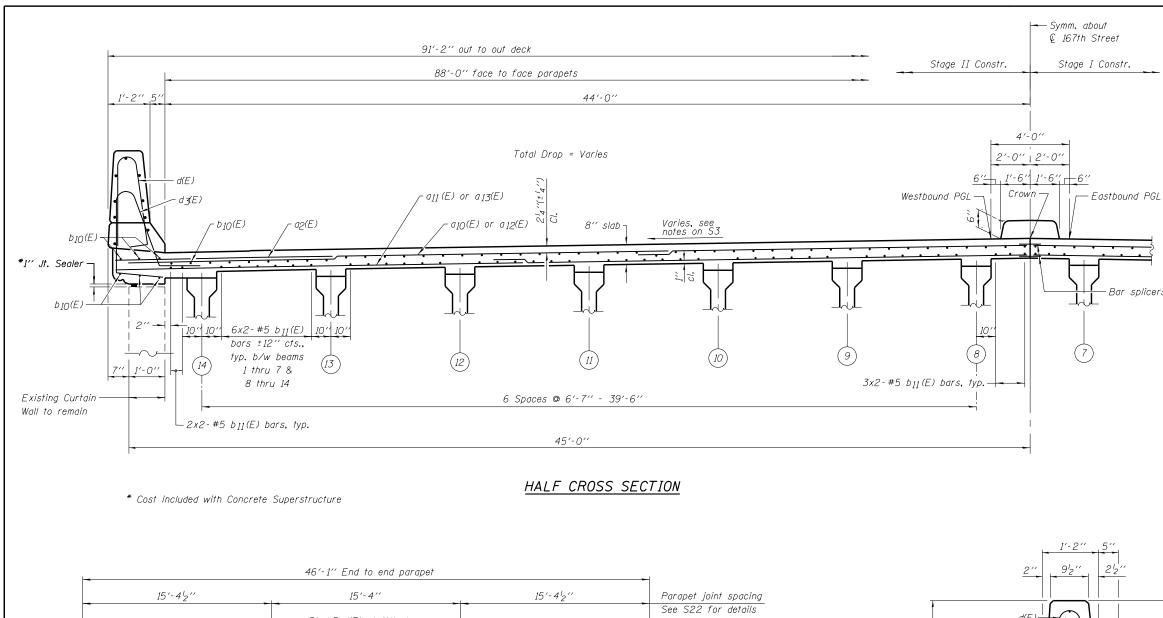


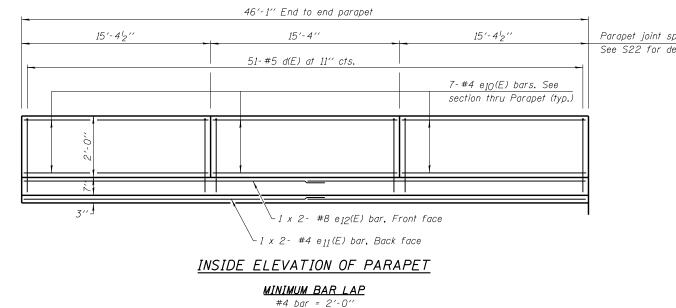
SHEET NO. S22 OF

		0/ /		<u> </u>
Bar	No.	Size	Length	Shape
a(E)	868	#5	24'-0''	
a1(E)	628	#5	20'-4''	
a ₂ (E)	442	#6	6′-6″	
a <u>3</u> (E)	868	#5	23'-7''	
α ₄ (Ε)	628	#5	27'-5''	
а ₅ (Е)	40	#6	24'-6''	
а ₆ (Е)	60	#6	9'-2''	Ĵ
а ₇ (Е)	12	#6	2'-8''	
a ₈ (E)	984	#4	3′-5′′	
	000		0.04 444	
b(E)	900	#5	28'-4''	
b ₁ (Ε)	92	#6	33'-0''	
$b_2(E)$	820	#5	25'-9''	
$b_{\overline{3}}(E)$	92	#6	24'-0''	
b ₄ (Ε)	48	#4	40'-0''	
c1(E)	236	#5	2'-4''	
c2(E)	472	#5	1'-4''	
02127	772		1 7	
d(E)	514	#5	5′-7′′	Δ
d1(E)	514	#5	7′-6′′	7
đ ₂ (Ε)	6	#6	4'-5''	Γ
d <u>3</u> (E)	10	#6	8′-11′′	
(=)				
e(E)	168	#4	16′-0′′	
e1(E)	16	#8	24'-2''	
e2(E)	16	#4	21'-9''	
e3(E)	32	#4	19'-8''	
e4(E)	4	#8	19′-8′′	
x(E)	152	#5	6'-5''	ر
ALL/	152	J	<u> </u>	
Concre	te		Cu Vd	C07.C
	structure		Cu Yd	603.6
Bridge	Deck G	rooving	Sq Yd	2144
Protect	tive Coai	t	Sq Yd	2524
	rcement	Bars,	Pound	153,950
Ероху	Coated		, ound	100,000
1				
Bars i	ndicated	thus 1	(4-#8 etc	. indicates

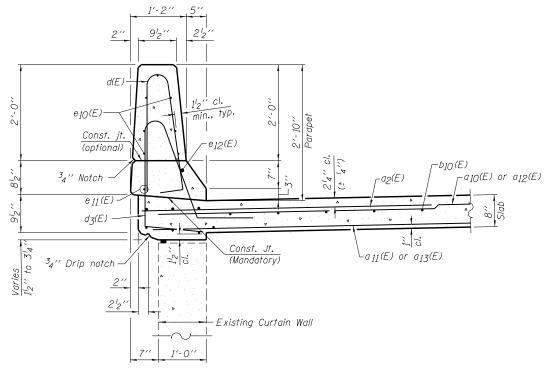
LS – SPAN 2 & 3	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER I-57	57	1011.3-BR	СООК	145	91
. 016–2125			CONTRACT	NO. 6	0T43
43 SHEETS		ILLINOIS FED. AI	D PROJECT		







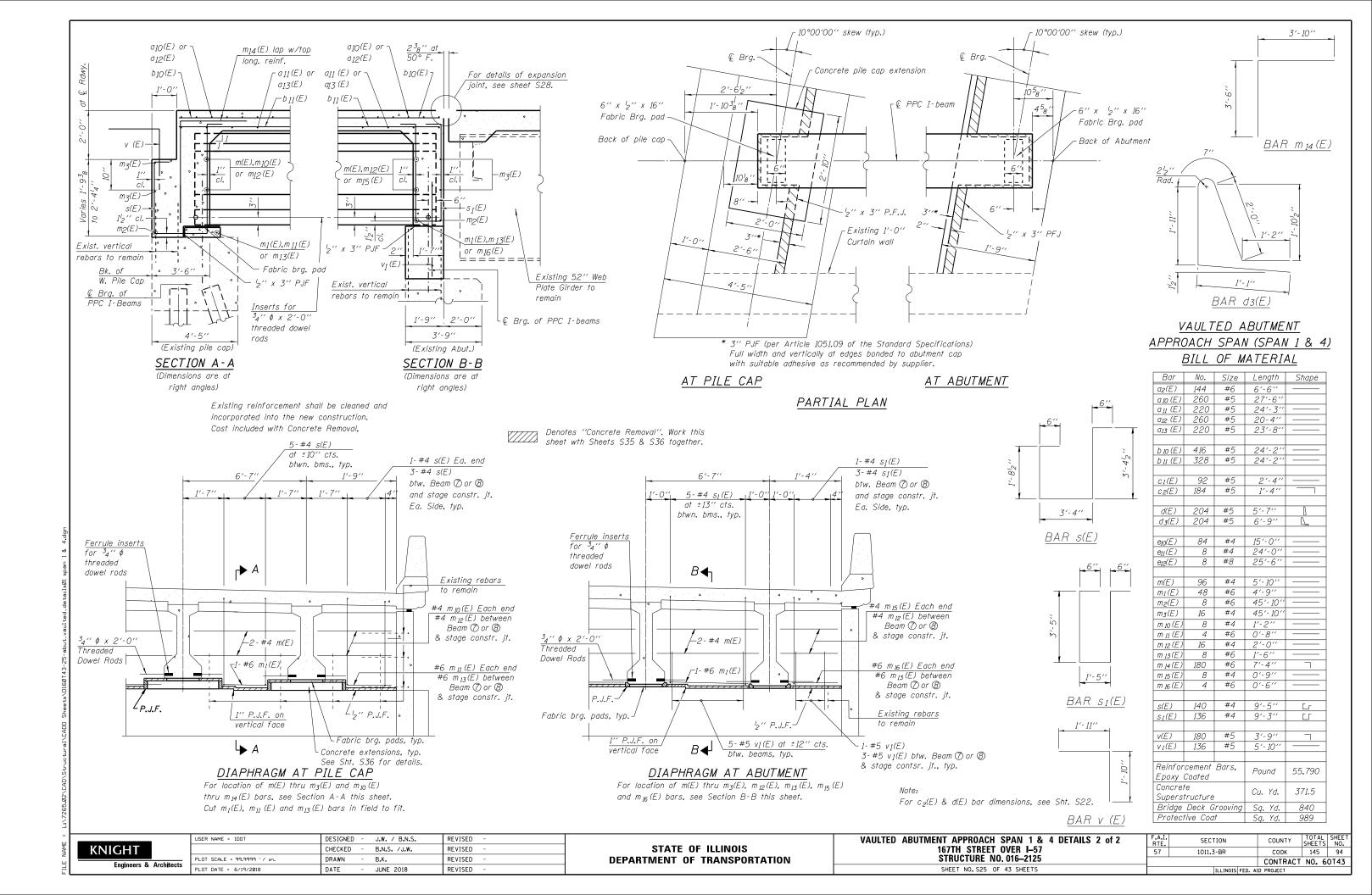
#8 bar = 5'-2''

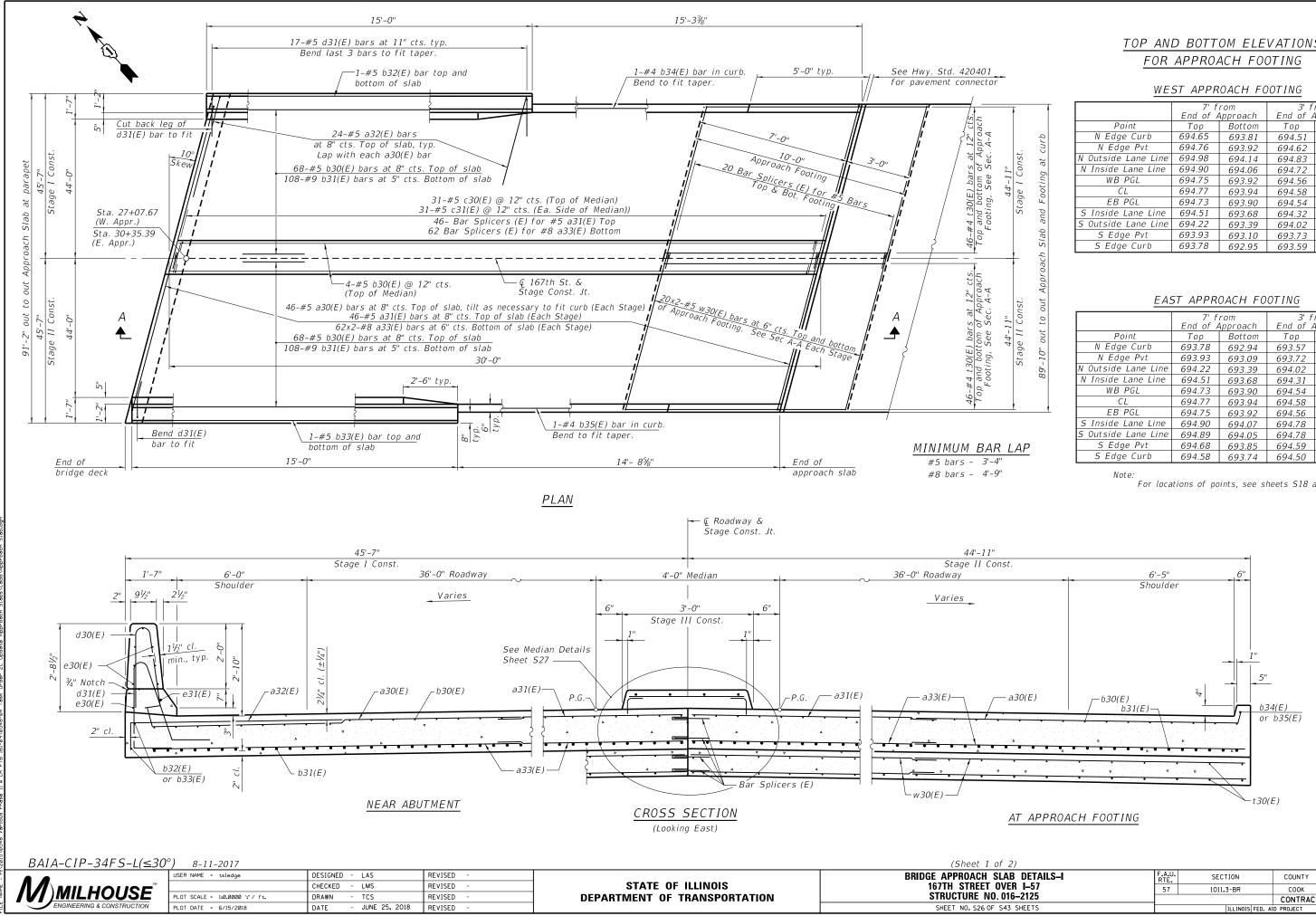


ч Ш		USER NAME = IDOT		REVISED -		VAULTED ABUTMENT APPROACH SPAN 1 & 4 DETAILS 1 OF 2	F.A.I. RIF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
MAM	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК	145 93
щ	Engineers & Architects	PLOT SCALE = 99.9999 '/ In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125	_			NO. 60T43
Ē	5	PLOT DATE = 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NO. S24 OF 43 SHEETS		ILLINOIS FED. AI	D PROJECT	

Bar splicers (E)

SECTION THRU PARAPET





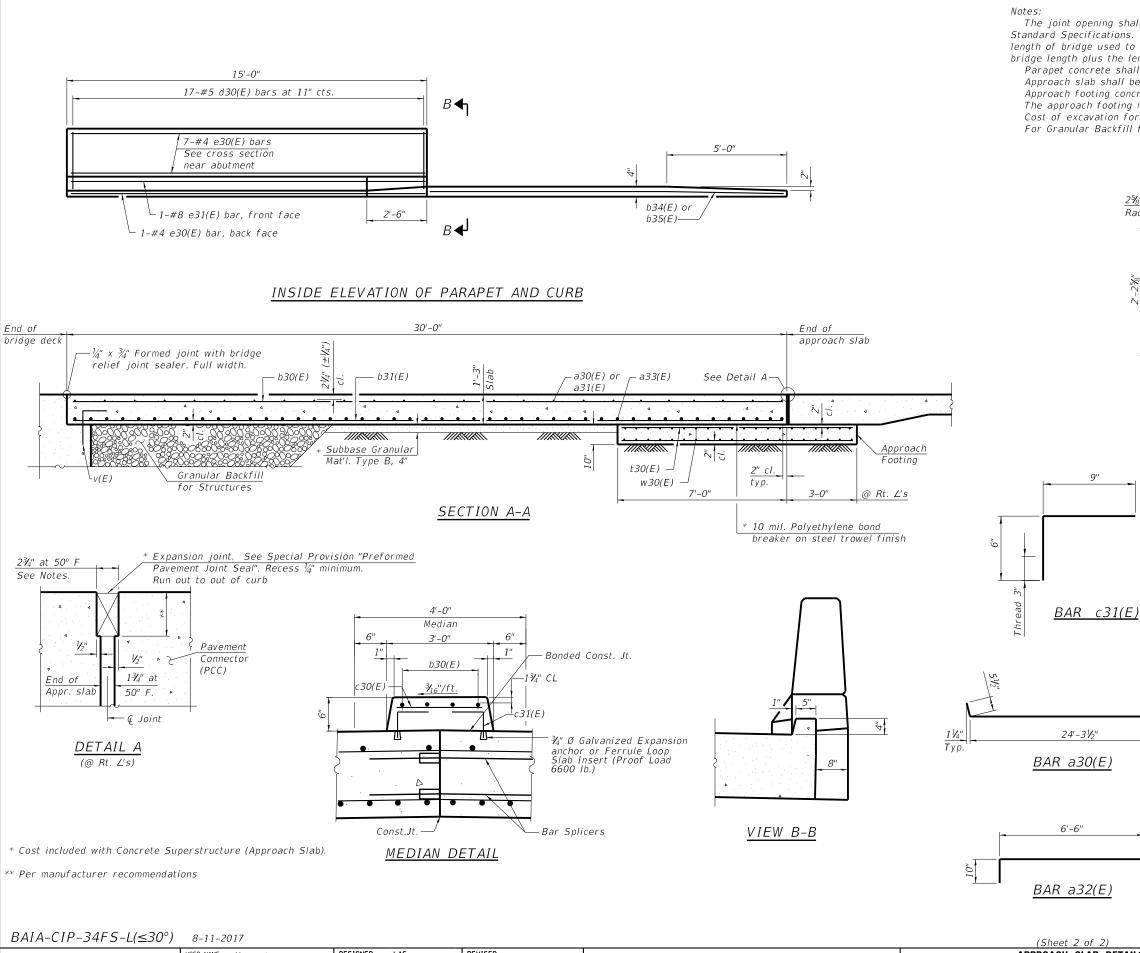
TOP AND BOTTOM ELEVATIONS

		rom	3' f	
	End of Approach		End of A	Approach
Point	Тор	Bottom	Тор	Bottom
N Edge Curb	694.65	693.81	694.51	693.67
N Edge Pvt	694.76	693.92	694.62	693.78
N Outside Lane Line	694.98	694.14	694.83	693.99
N Inside Lane Line	694.90	694.06	694.72	693.88
WB PGL	694.75	693.92	694.56	693.73
CL	694.77	693.94	694.58	693.75
EB PGL	694.73	693.90	694.54	693.71
S Inside Lane Line	694.51	693.68	694.32	693.49
S Outside Lane Line	694.22	693.39	694.02	693.19
S Edge Pvt	693.93	693.10	693.73	692.90
S Edge Curb	693.78	692.95	693.59	692.76

		rom	3' f				
	End of A	арргоаст	End of A	арргоасн			
Point	Тор	Bottom	Тор	Bottom			
N Edge Curb	693.78	692.94	693.57	692.73			
N Edge Pvt	693.93	693.09	693.72	692.88			
N Outside Lane Line	694.22	693.39	694.02	693.19			
N Inside Lane Line	694.51	693.68	694.31	693.48			
WB PGL	694.73	693.90	694.54	693.71			
CL	694.77	693.94	694.58	693.75			
EB PGL	694.75	693.92	694.56	693.73			
S Inside Lane Line	694.90	694.07	694.78	693.95			
S Outside Lane Line	694.89	694.05	694.78	693.94			
S Edge Pvt	694.68	693.85	694.59	693.76			
S Edge Curb	694.58	693.74	694.50	693.66			

For locations of points, see sheets S18 and S19.

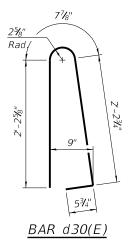
f 2)					
LAB DETAILS-I	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER 1–57	57	1011.3-BR	СООК	145	95
016–2125			CONTRACT	NO. 6	OT43
S43 SHEETS		ILLINOIS FED. A	ID PROJECT		

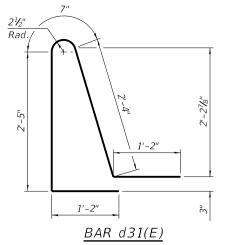


USER NAME = bkamarıotıs DESIGNED - LAS REVISED APPROACH SLAB STATE OF ILLINOIS M)<u>MILHOUSE</u>® CHECKED - DAZ REVISED 167TH STREET O PLOT SCALE = 1:0.166667 DRAWN TCS REVISED **DEPARTMENT OF TRANSPORTATION** STRUCTURE NO. SHEET NO. S27 OF S4 PLOT DATE = 8/15/2018 DATE APRIL, 2018 REVISED

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 slab.

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 (Qmax) = 2.0 ksf.Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet S2 of S48.

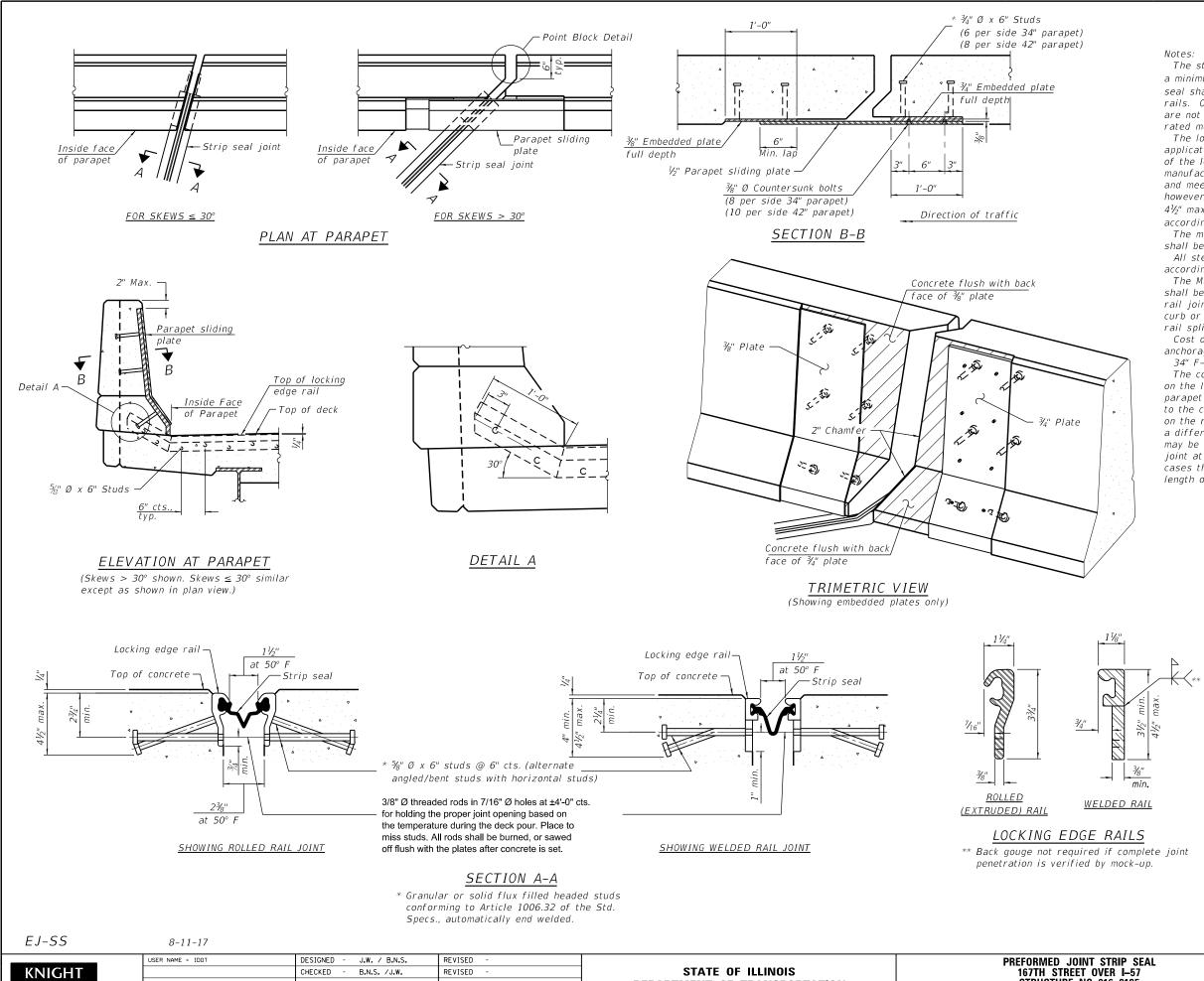




TWO APPROACHES BILL OF MATERIAL

-		11711	<u> </u>	
Bar	No.	Size	Length	Shape
a30(E)	184	#5	24'-9"	<u> </u>
a31(E)	184	#5	24'-4"	
a32(E)	96	#5	7'-4"	
a33(E)	496	#8	25'-5"	
b30(E)	280	#5	29'-8"	
b31(E)	432	#9	29'-8"	
b32(E)	4	#5	14'-4''	
b33(E)	4	#5	14'-11''	
b34(E)	2	#4	14'-11''	
b35(E)	2	#4	14'-4''	
c30(E)	62	#5	2'-6"	
c31(E)	124	#5	1'-3"	Г
C31(L)	12,	,, 3	1.5	1
d30(E)	68	#5	5'-7"	Δ
d31(E)	68	#5	7'-8"	Ĺ
e30(E)	32	#4	14'-8"	
e31(E)	4	#8	14'-8"	
t30(E)	368	#4	9'-10''	
130(2)	500	<i>m</i> न	5 10	
w30(E)	320	#5	24'-4"	
Bridge D		ving	Sq.Yd.	548
Protectiv			Sq. Yd.	628
Concrete	Superstr	ucture	Cu.Yd.	11.1
Concrete (Approach		ucture	Cu. Yd.	271.5
Concrete		es	Cu. Yd.	56.3
Reinforce		rs,	Pound	108,500
Ероху Со	atea			

2)					
DETAILS-II	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER I-57	57	1011.3-BR	СООК	145	96
. 016–2125			CONTRACT	NO. 6	OT43
543 SHEETS		ILLINOIS FED. AI	D PROJECT		



ш		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		PREFORMED JOINT STRIP SEAL	F.A.I. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
MAM	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	соок	145 97
Ц	Engineers & Architects	PLOT SCALE = 99.9999 '/ In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-2125 SHEET NO. S28 OF 43 SHEETS				T NO. 60T43
		PEUT DHTE - 6/19/2016	DATE - JUNE 2018	REVISED -		SHEET NO. 328 OF 45 SHEETS		ILLINOIS FED.	AID PROJECT	

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

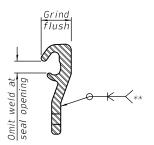
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

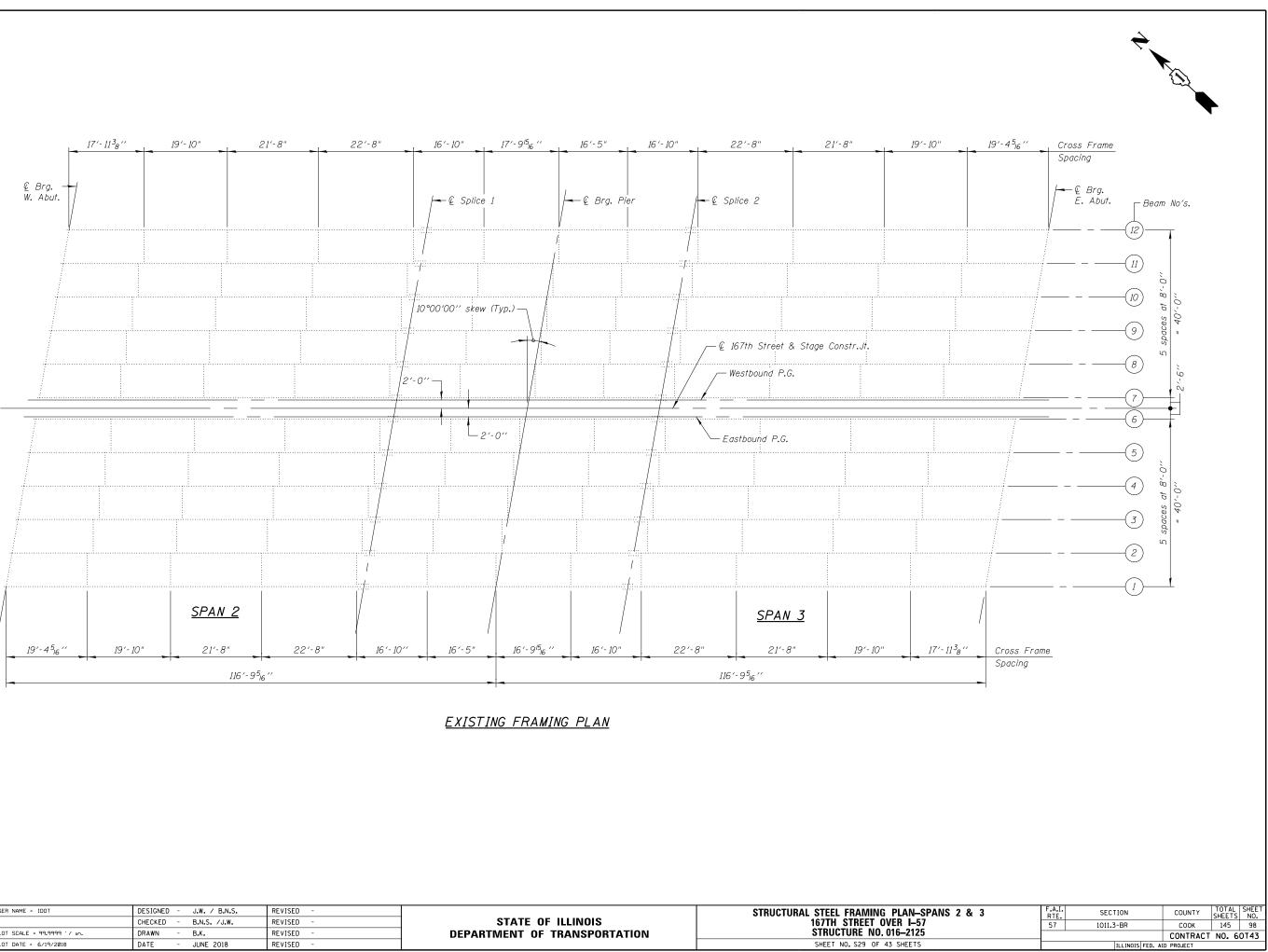


LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

<u>BILL OF MATERIAL</u>

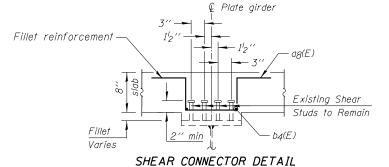
Item	Unit	Total
Preformed Joint Strip Seal	Foot	183



ш		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		STRUCTURAL STEEL FRAMING P
MAN	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVE
Щ	Engineers & Architects	PLOT SCALE = 99.9999 '/ in. PLOT DATE = 6/19/2018	DRAWN - B.K. DATE - JUNE 2018	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 010
ΞL		PLUI DHIE - 6/19/2018	DATE - JUNE 2018	REVISED -		SHEET NU. S29 OF 43

0-2123		CONTRACT NO. 6
SHEETS	ILLINOIS FED. AI	D PROJECT

		0.4 Sp. 2 or 0.6 Sp. 3	Pier
Is	(in ⁴)	25,474	64,025
I _c (n)	(in ⁴)	78,972	-
Ic(3n)	(in ⁴)	55,434	-
Ss	(in ³)	1,328	2,266
Sc(n)	(in ³)	1,813	-
Sc(3n)	(in ³)	1,686	-
P	(k/′)	1.017	1.664
ΜQ	(′k)	814	2,889
S Q	(k/′)	0.467	-
MsQ	(′k)	413	-
M Ł	(′k)	1,327	1,456
MI	(′k)	274	301
⁵ 3[M4 + I]	(′k)	2,674	2,935
Ma	(′k)	5,073	7,570
Mu	(′k)	6,246	-
fs ₽non-comp	(ksi)	7.36	15.30
fs ₽ (comp)	(ksi)	2.94	-
fs ⁵ 3 [M & + MI](ksi)	17.70	15.54
fs (Overload)	(ksi)	28.01	30.83
fs (Total)	(ksi)	-	40.08
Vr	(k)	62.56	65.39



*Compact section

(k)

(k)

(k)

R Total (k)

R₽

R4

 R_I

**Braced non-compact and partially braced section

Pier

223.10

85.10

17.60

325.80

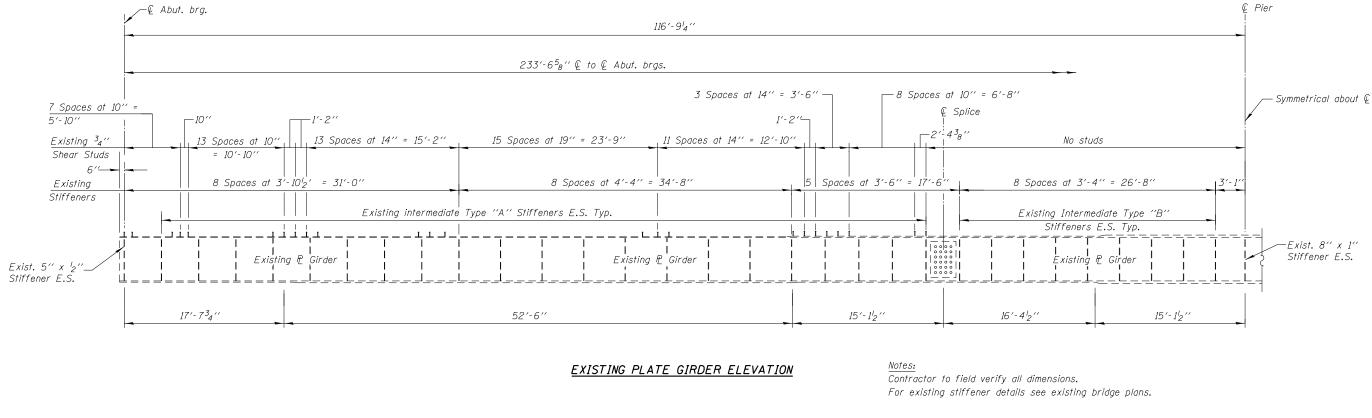
Abutment

62.10

47.30

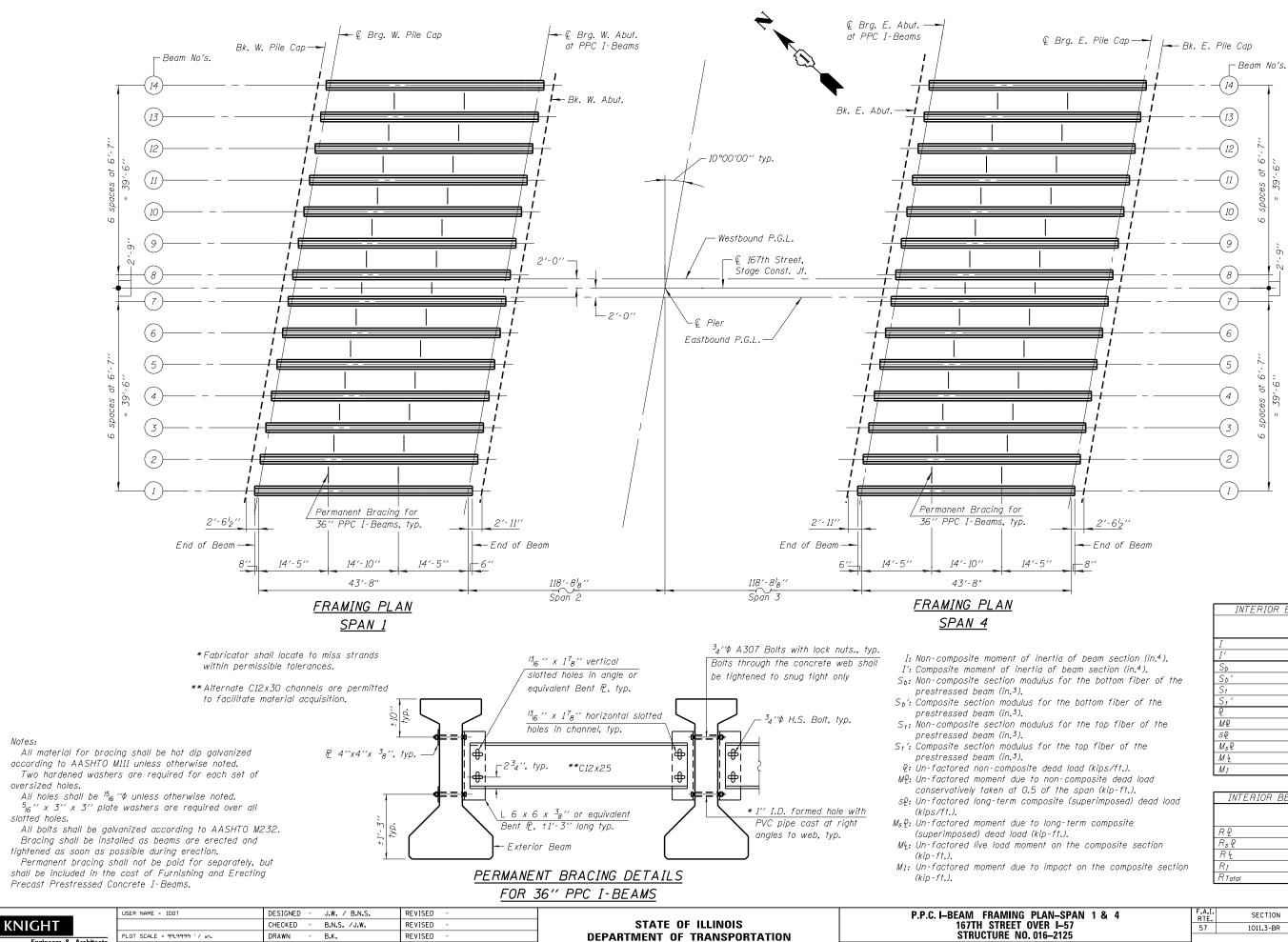
9.78

119.18



. – 		USER NAME = IDOT	DESIGNED - J.W. / B.N.S.	REVISED -		EXISTING STRUCTURAL STEEL DETAILS – SPAN 2 & 3	F.A.I. RTF.	SECTION	COUNTY	TOTAL SHEET
MAM	KNIGHT		CHECKED - B.N.S. /J.W.	REVISED -	STATE OF ILLINOIS	167TH STREET OVER I-57	57	1011.3-BR	СООК	145 99
ц	Engineers & Architects	PLOT SCALE = 99.9999 ′ / In.	DRAWN - B.K.	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016–2125			CONTRACT	T NO. 60T43
		PLOT DATE = 6/19/2018 DATE - JUNE 2018 REVISED -			SHEET NO. S30 OF 43 SHEETS		ILLINOIS FED. A	ID PROJECT		

- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total and Overload) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total and Overload) due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total and Overload) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
 - p: Un-factored non-composite dead load (kips/ft.).
 - MQ: Un-factored moment due to non-composite dead load (kip-ft.).
 - s Q: Un-factored long-term composite (superimposed) dead load (kips/ft.)
 - Ms Q: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 - Mt: Un-factored live load moment (kip-ft.).
 - MI: Un-factored moment due to impact (kip-ft.).
 - Ma: Factored design moment (kip-ft.). 1.3 [MQ + MsQ + 3 (M4 + MI)]
 - Mu: Compact composite moment capacity according to AASHTO LFD 10.50 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- fs (Overload): Sum of stresses as computed from the moments below (ksi). $MQ + MsQ + \frac{5}{3}(ML + M_I)$
- $f_{\mathcal{S}}$ (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 - 1.3 [MQ + MsQ + 3 (M4 + MI)] Vr: Maximum 4 + impact shear range within the composite portion of the span for stud shear connector design (kips).



PLOT SCALE = 99.9999 '/ in.

PLOT DATE = 6/19/2018

Engineers & Architects

DRAWN

DATE

В.К.

JUNE 2018

REVISED

REVISED

STRUCTURE NO. SHEET NO. S31 OF

INTERIOR BEAM MOMENT TABLE							
	0.5 Span						
I (in ⁴)	48,648						
I' (in ⁴)	<i>191,4</i> 65						
S _b (in ³)	3 , 165						
S _b ' (in ³)	6,243						
St (in ³)	2,358						
S _t ' (in ³)	35,922						
₽ (k/′)	1.042						
M₽ ('k)	249						
SQ (k/')	0.400						
M₅₽ ('k)	96						
M 4 ('k)	303						
M1 ('k)	91						

INTERIOR BEAM REACTION TABLE					
		Abutment			
RQ	(k)	22.8			
R _s Q	(k)	8.7			
R 4	(k)	34.0			
RI	(k)	11.1			
R Total	(k)	76.6			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1011.3-BR	СООК	145	100
		CONTRACT NO. 6014		
ILLINOIS FED. AID PROJECT				
	RTE.	RTE. SECTION 57 1011.3-BR	RTE. SECTION COUNTY 57 1011.3-BR C00K CONTRACT CONTRACT	RTE. SECTION COUNTY SHEETS 57 1011.3-BR COOK 145 CONTRACT NO. 6