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UTILITY COMPANIES

AMEREN IP - SOUTH (ELECTRIC, GAS, LIGHT POLES)
AT&T / DISTRIBUTION
CITY OF DECATUR (WATER & STORM SEWER)
COMCAST
METRO COMMUNICATIONS CO.
SANITARY DISTRICT OF DECATUR (SANITARY SEWER)

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION = MINOR ARTERIAL
SN 058-3035: 2019 ADT = 17,600; 2039 ADT = 20,900
SN 058-3036: 2019 ADT = 13,600; 2039 ADT = 16,200
DESIGN SPEED = 40 MPH



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

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

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 95841

01-18-2019 LETTING ITEM 131

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT

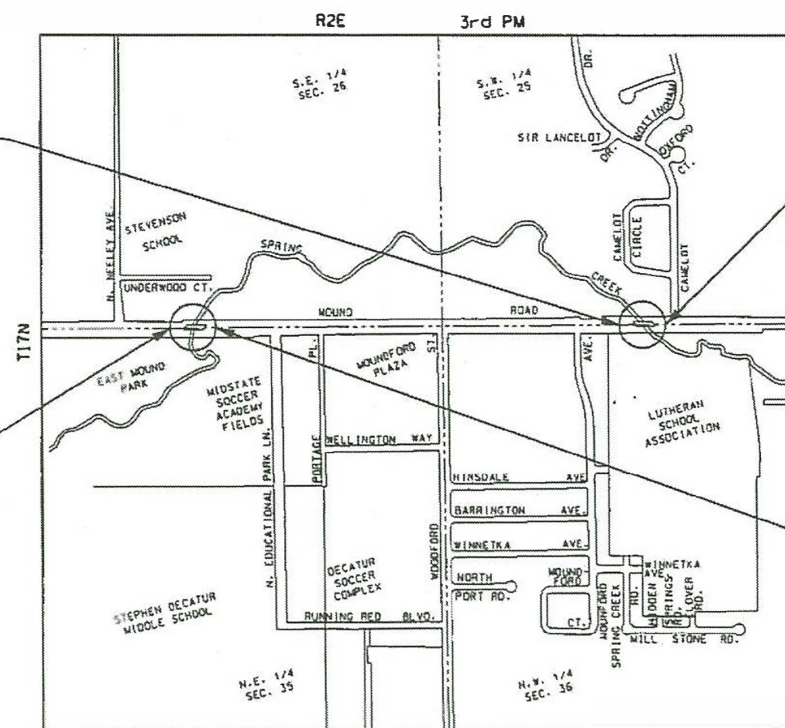
STU (SURFACE TRANSPORTATION - URBAN PROGRAM)
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
SECTION 17-00706-00-BR
CITY OF DECATUR, MACON COUNTY
PROJECT NO. EBDH(794)
JOB NO. C-97-059-18

STR. NO. 058-3036
BEGIN IMPROVEMENT
STA. 178+36.00

STR. NO. 058-3035
BEGIN IMPROVEMENT
STA. 140+92.00

STR. NO. 058-3036
END IMPROVEMENT
STA. 181+00.00

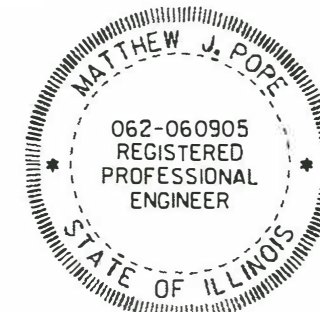
STR. NO. 058-3035
END IMPROVEMENT
STA. 143+56.00



LOCATION MAP

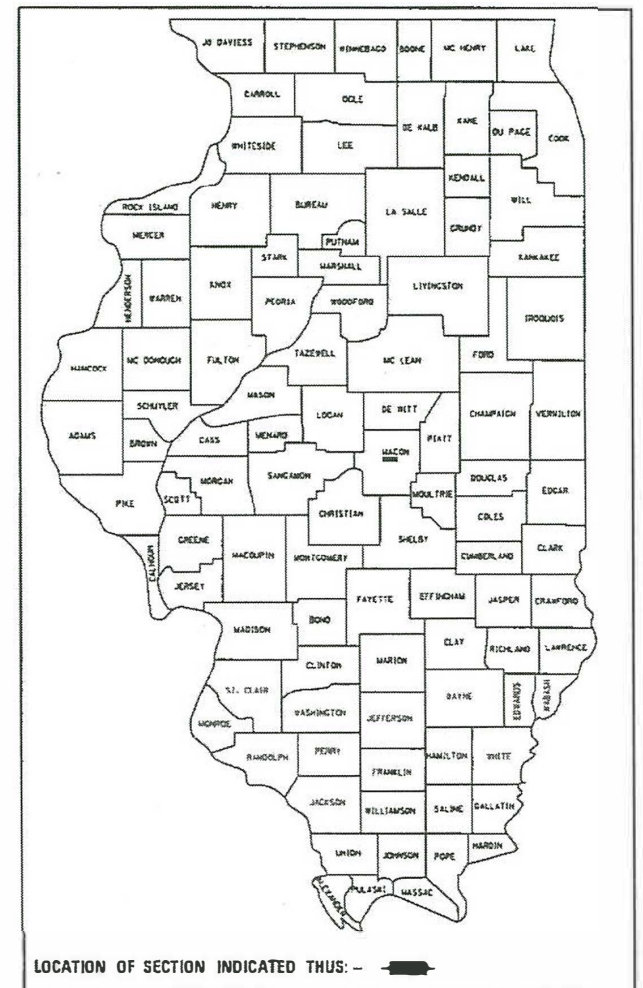
STR 058-3035: TOTAL LENGTH OF IMPROVEMENT = 264 FT. = 0.05 MILE
NET LENGTH OF IMPROVEMENT = 264 FT. = 0.05 MILE
STR 058-3036: TOTAL LENGTH OF IMPROVEMENT = 264 FT. = 0.05 MILE
NET LENGTH OF IMPROVEMENT = 264 FT. = 0.05 MILE
MOUND ROAD: GROSS LENGTH OF IMPROVEMENT = 528 FT. = 0.10 MILE
NET LENGTH OF IMPROVEMENT = 528 FT. = 0.10 MILE

THE PROPOSED IMPROVEMENT CONSISTS OF REMOVAL OF EXISTING SUPERSTRUCTURES AT STR. NO. 058-3035 AND STR. NO. 058-3036 AND REPLACEMENT WITH THREE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM (17" DEPTH) SUPERSTRUCTURES, CONCRETE WEARING SURFACES, MINOR SUBSTRUCTURE REPAIRS AND ASSOCIATED APPROACH ROADWAY WORK, ALL UNDER STAGE CONSTRUCTION.
STR. 058-3035: 53'-5" CLEAR ROADWAY, 4'-0" SIDEWALK, 92'-5" END TO END DECK, 20 DEGREE LEFT-FORWARD SKEW.
STR. 058-3036: 64'-5" CLEAR ROADWAY, 4'-0" SIDEWALK, 118'-9 1/4" END TO END DECK, 40 DEGREE RIGHT-FORWARD SKEW.



Matthew J. Pope 10/04/2018
ILL. REG. P.E. NO. 062-060905
EXPIRES: 11 / 30 / 2019

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 95841		



LOCATION OF SECTION INDICATED THUS: -

APPROVED *[Signature]* 2018
CITY ENGINEER

PASSED *[Signature]* 2018
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

RELEASING FOR
BIO BASED ON
LIMITED REVIEW *[Signature]* 2018
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AECOM 345 EAST ASH AVENUE, SUITE B
DECATUR, ILLINOIS 62526
PH. 217-875-4800

GENERAL NOTES

WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM STANDARD SPECIFICATION IS USED, IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED APRIL 1, 2016.

EXISTING ROAD SIGNS THAT CONFLICT WITH STAGE CONSTRUCTION TRAFFIC PATTERNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR.

EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CONTACT J.U.L.I.E. (PHONE 800-892-0123) AND ALL UTILITY COMPANIES PRIOR TO DIGGING.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION OPERATIONS.

THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME THE CONTRACTOR DAMAGES OR DESTROYS PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DECATUR RESIDENT ENGINEER AND THE CITY ENGINEER 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES AT THE TIME OF CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THEY PREFORM THEIR WORK.

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. TREES OR SHRUBS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE INCLUDED IN THE CONTRACT COST OF THE PROJECT. SEEDING, CLASS 1A AND MULCH METHOD 1 SHALL BE USED FOR THIS PROJECT. SEE SPECIAL PROVISION. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER TO ENSURE THAT ALL UTILITIES, SCHOOL DISTRICTS, MAIL SERVICE AND FIRE DEPARTMENTS ARE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.

STATIONS AND OFFSETS NOTED FOR DRAINAGE STRUCTURES LOCATED IN THE CURB AND GUTTER LINE ARE TO THE FRONT FACE OF FRAME AND GRATE. RIM ELEVATIONS ARE TOP OF GRATE ELEVATIONS, ALSO AT FRONT FACE OF FRAME AND GRATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY TO THE STRUCTURES TO SET THE FRAMES AND GRATES IN THE PROPER LOCATIONS. GRADES OF SEWER LINES WHICH TIE INTO EXISTING DRAINAGE STRUCTURES WERE DETERMINED FROM FIELD SURVEYS. IF NECESSARY, THE INVERTS OF THE PROPOSED DRAINAGE ITEMS MAY BE REVISED TO MEET FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER. BEFORE ORDERING STORM SEWERS OR DRAINAGE STRUCTURES, THE CONTRACTOR SHALL FIELD VERIFY ALL RIM AND INVERT ELEVATIONS, AND PIPE LENGTHS, AND NOTIFY THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER, AS SHOWN, UNLESS SPECIFIED OTHERWISE BY THE RESIDENT ENGINEER. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

STORM SEWER, WATER MAIN REQUIREMENTS ARE TO BE USED AT LOCATIONS WHERE:
HORIZONTAL SEPARATION BETWEEN THE SEWER AND WATER MAIN IS LESS THAN 10-FEET AND THE WATER MAIN INVERT IS LESS THAN 18-INCHES ABOVE THE STORM SEWER CROWN;
OR WHEN WATER MAIN CROSSES OVER STORM SEWER AND THE WATER MAIN INVERT IS LESS THAN 18-INCHES ABOVE THE STORM SEWER CROWN;
OR WHEN WATER MAIN CROSSES UNDER STORM SEWER AND THE WATER MAIN CROWN IS LESS THAN 18-INCHES UNDER THE STORM SEWER;
THE STORM SEWER SHALL BE ENCASED IN WATER MAIN QUALITY PIPE.

THE WORK REQUIRED TO CONNECT ANY STORM SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE STORM SEWER ITEMS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE CONTRACT.

MANHOLE TO BE RECONSTRUCTED AT STA. 141+64 LT AND PROPOSED MANHOLE AT STA. 178+45.50 LT REQUIRE FLAT SLAB TOP WITH NO TAPER CONSTRUCT IN ACCORDANCE WITH HWY. STD. 602601 AND CITY STANDARD 2100.

ACCESS TO ALL SIDE ROADS AND ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR DURING ALL STAGES OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL NOTIFY THE RESIDENT IN WRITING 24 HOURS IN ADVANCE.

NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL REQUIREMENTS HAVE BEEN MET AND APPROVED BY THE ENGINEER.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER, AND THE IDOT LOCAL BRIDGE UNIT FOR CONCURRENCE AT 217-782-5928, PRIOR TO SWITCHING TRAFFIC OVER TO PROPOSED STAGE 1 AND STAGE 2 TRAFFIC CONFIGURATIONS.

EXERCISE CAUTION WHEN WORKING NEAR END OF IMPROVEMENT STA. 181+00, TO AVOID CONFLICT WITH NEARBY DETECTOR LOOPS.

THE CONTRACTOR SHALL MAKE FULL DEPTH SAW CUTS REQUIRED FOR THE REMOVAL OF PAVEMENTS, CONCRETE CURB AND GUTTERS, SIDEWALKS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST FOR REMOVAL OF THE SPECIFIED ITEM IN THE CONTRACT.

WHERE CITY OF DECATUR STANDARDS DIFFER FROM IDOT STANDARDS, CITY STANDARDS SHALL TAKE PRECEDENCE AND SHALL GOVERN. SEE PROPOSAL BOOKLET FOR THE CITY STANDARDS LISTED ON THIS SHEET.

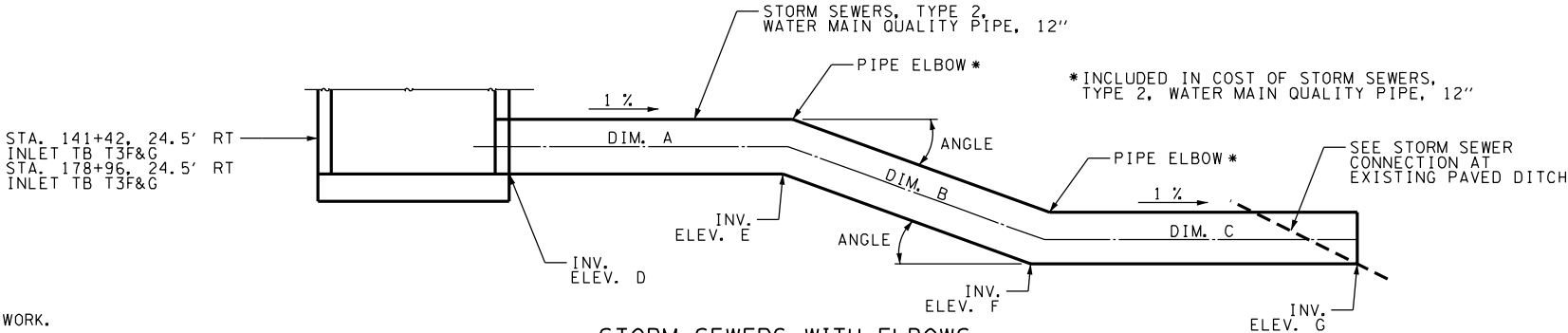
MAINTENANCE OF TRAFFIC ITEMS MAY BE MODIFIED OR VARIED TO SUIT TRAFFIC CONTROL CONDITIONS, AS DIRECTED BY THE ENGINEER.

TIMING OF TEMPORARY TRAFFIC SIGNALS FOR STAGE CONSTRUCTION SHALL BE RESPONSIBILITY OF THE CITY OF DECATUR.

PAVEMENT CONNECTOR MATERIALS INCLUDING HMA BINDER COURSE AND HMA SURFACE COURSE SHALL BE INCLUDED IN THE COST OF PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB. BITUMINOUS MATERIALS (PRIME COAT) SHALL BE PAID FOR SEPARATELY. SEE SPECIAL PROVISION. ASSUMED RATES OF APPLICATION ARE AS FOLLOWS:

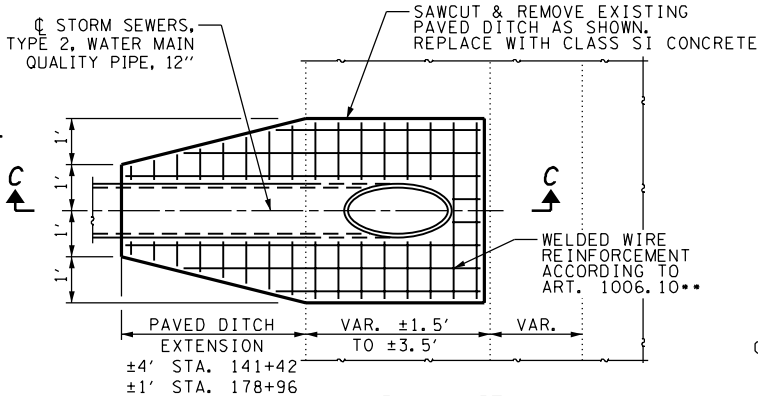
BITUMINOUS MATERIAL (PRIME COAT).....0.025 LBS./SQ. FT. (ON BINDER COURSE LIFTS)
BITUMINOUS MATERIAL (PRIME COAT).....0.25 LBS./SQ. FT. (ON SUBBASE GRANULAR MATERIAL)
HMA BINDER COURSE.....112 LBS./SQ. YD./INCH THICKNESS
HMA SURFACE COURSE.....112 LBS./SQ. YD./INCH THICKNESS

DRAINAGE DETAILS



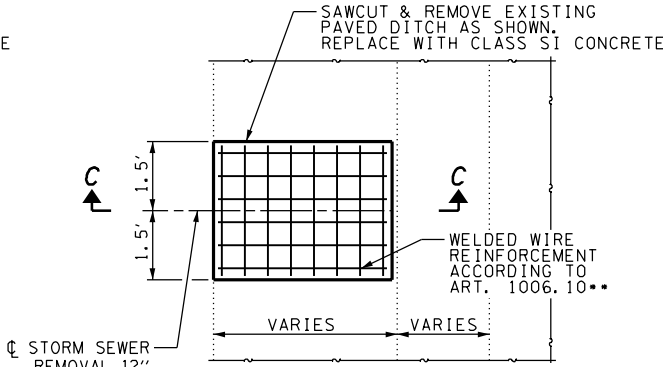
STORM SEWERS WITH ELBOWS

LOCATION	DIM. A	DIM. B	DIM. C	ANGLE	INV. ELEV. D	INV. ELEV. E	INV. ELEV. F	INV. ELEV. G	LENGTH
RT. 141+42	9.2'	11.8'	9.0'	20°	646.05	645.96	642.13	642.04	30'
RT. 178+96	9.5'	11.0'	7.8'	25°	650.78	650.69	646.20	646.12	28.3'



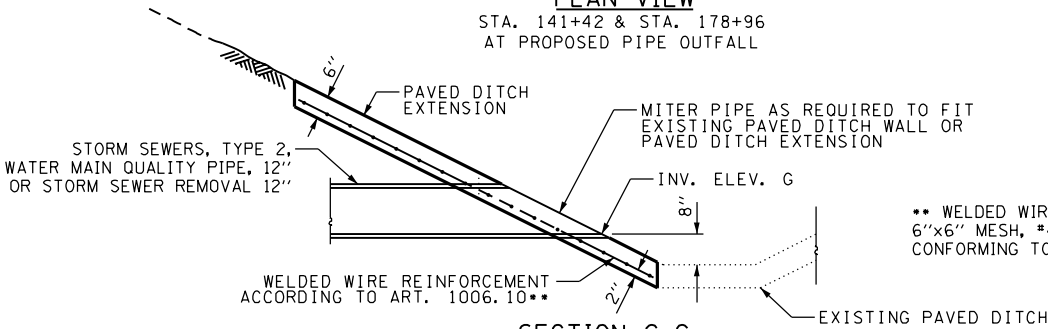
PLAN VIEW

STA. 141+42 & STA. 178+96
AT PROPOSED PIPE OUTFALL



PLAN VIEW

STA. 141+56 & STA. 179+15
AT EXISTING PIPE OUTFALL



SECTION C-C

PROPOSED STORM SEWER CONNECTION AT EXISTING PAVED DITCH AND REPAIR OF EXISTING PAVED DITCH AT STORM SEWER REMOVAL

ALL WORK REQUIRED FOR THE PROPOSED STORM SEWER CONNECTION AT EXISTING PAVED DITCH AND REPAIR OF EXISING PAVED DITCH AT STORM SEWER REMOVAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12" OR STORM SEWER REMOVAL 12" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

BITUMINOUS MIXTURE REQUIREMENTS

PAVEMENT CONNECTORS (HMA) FOR BRIDGE APPROACH SLAB

LOCATION	MOUND RD.	MOUND RD.	MOUND RD.
MIX USE	•BINDER	••BINDER	SURFACE
AC/PG	SBS PG 70-22	PG 64-22	SBS PG 70-22
RAP %	***	***	***
DESIGN VOIDS	4.0 @ N=90	4.0 @ N=90	4.0 @ N=90
MIXTURE COMPOSITION (GRAD. MIXTURE)	1L-19.0	1L-19.0	1L-9.5
FRICTION	N/A	N/A	MIX D
LIFT THICKNESS	2 1/4 IN.	4 IN. MAX.	2 IN.

- TOP LIFT OF BINDER (BELOW SURFACE COURSE)
- OTHER LIFTS OF BINDER (BESIDES TOP LIFT)
- TO BE DETERMINED BY CONTRACTOR (SEE SPECIAL PROVISION)

CITY OF DECATUR STANDARDS

1010-1	COMBINATION CONCRETE CURB AND GUTTER
2000	MANHOLE TYPE A
2010	MANHOLE DETAILS
2020	FRAME AND LIDS TYPE 1
2050	TRENCH BACKFILL AND BEDDING
2100	PRECAST REINFORCED CONCRETE FLAT SLAB TOP FOR MANHOLES
3000	INLET, TYPE A
3034	FRAME AND GRATE, TYPE 3
3072	REINFORCED CONCRETE PIPE ELBOW

COMMITMENTS

THE CITY OF DECATUR WILL ISSUE A GENERAL PUBLIC NOTIC. INCLUDING TO NEARBY CHURCHES, SCHOOLS, EMERGENCY RESPONDERS, AND THE POST OFFICE FOR THE PROJECTED SIDEWALK CLOSURE PERIOD.

<div><div>AECOM</div><div>345 EAST ASHE AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS</div><div>DEPARTMENT OF PUBLIC WORKS</div></div>	<div><div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div><div>GENERAL DATA AND DRAINAGE DETAILS</div></div>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN - BKN	REVISED -						7359	17-00706-00-BR	MACON	85	2
	PLOT DATE = 10/4/2018	CHECKED - MJP	REVISED -		CONTRACT NO. 95841								
		DATE - 9/10/2018	REVISED -		ILLINOIS FED. AID PROJECT								
SCALE: N/A		SHEET 1 OF 1 SHEETS		STA.		TO STA.							

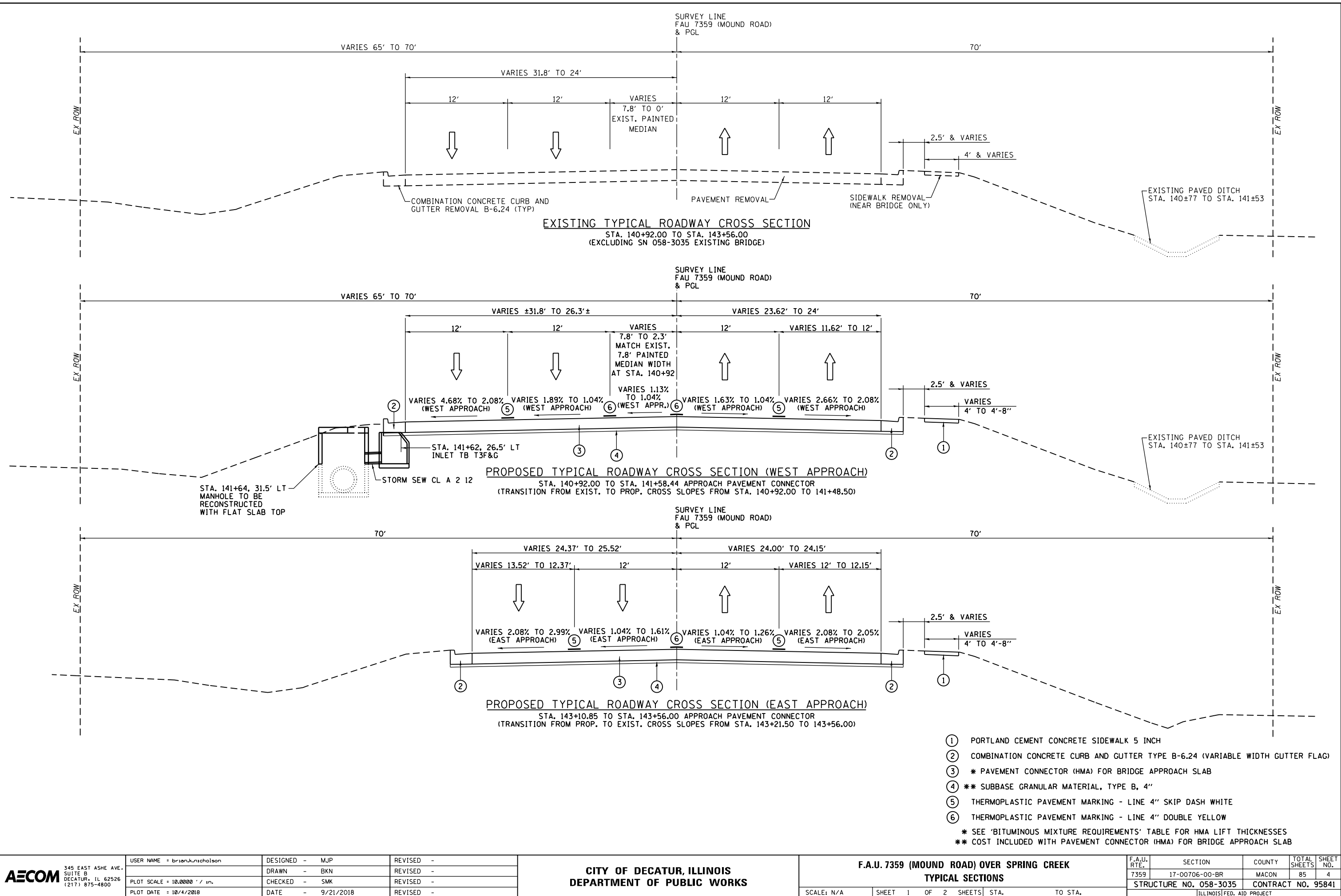
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
28100107	STONE RIPRAP, CLASS A4	SQ YD	4
28200200	FILTER FABRIC	SQ YD	4
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,543
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	1,213
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	542
44000100	PAVEMENT REMOVAL	SQ YD	1,940
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	634
44000600	SIDEWALK REMOVAL	SQ FT	483
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2
50102400	CONCRETE REMOVAL	CU YD	5.1
50300225	CONCRETE STRUCTURES	CU YD	93.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	63.8
50300260	BRIDGE DECK GROOVING	SQ YD	2,112
50300300	PROTECTIVE COAT	SQ YD	2,646
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	351.3
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	13,949
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	185,470
50800515	BAR SPLICERS	EACH	801
50901750	PARAPET RAILING	FOOT	262
51500100	NAME PLATES	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	18
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	24
55100500	STORM SEWER REMOVAL 12"	FOOT	128
55100900	STORM SEWER REMOVAL 18"	FOOT	18
59000200	EPOXY CRACK INJECTION	FOOT	610
60100965	PIPE DRAINS 18"	FOOT	30
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	4
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	4
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	2

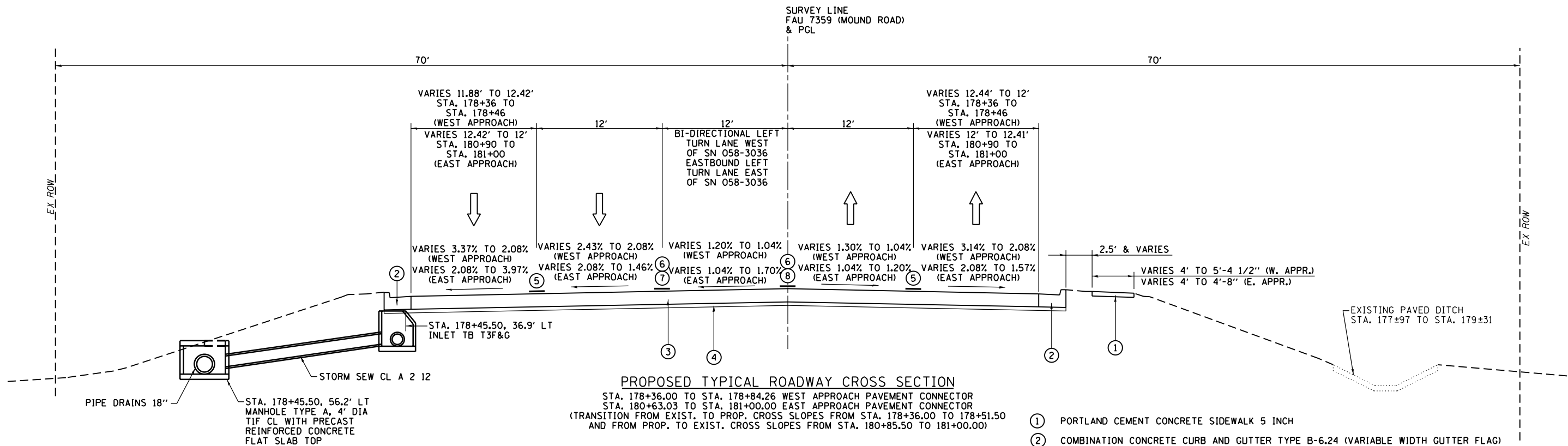
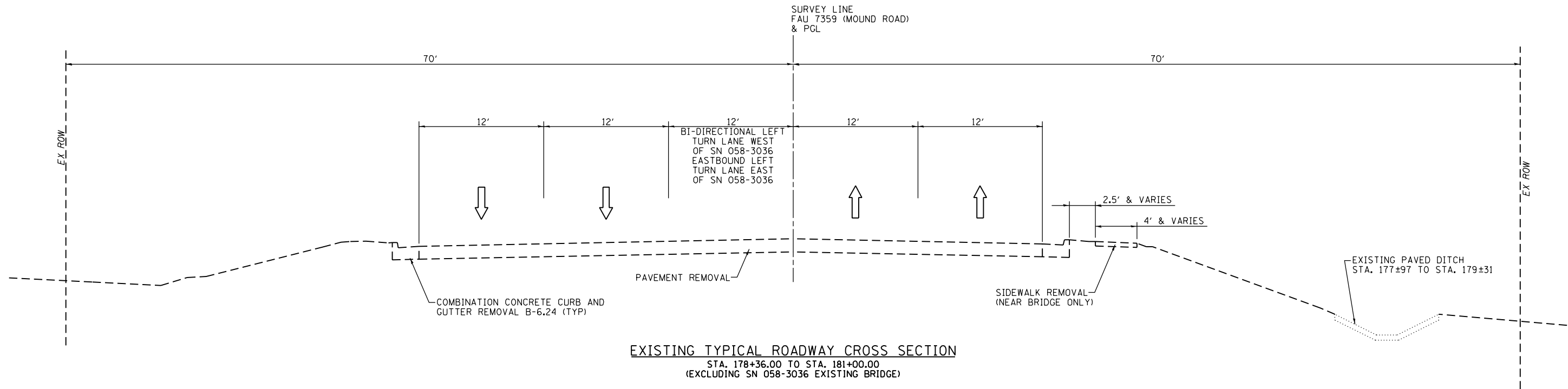
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
60500040	REMOVING MANHOLES	EACH	1
60500060	REMOVING INLETS	EACH	8
60605500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG)	FOOT	396
67100100	MOBILIZATION	LSUM	1
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	LSUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	788
70600241	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
70600341	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	142
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,719
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	276
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	36
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	130
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	300
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	54
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	874
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	20
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	58
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	1
X5030301	CONCRETE WEARING SURFACE (VARIABLE DEPTH)	SQ YD	1,583
X5091725	BICYCLE RAILING, SPECIAL	FOOT	261
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	32
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	12,387
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	18
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	375

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

<div><div>AECOM</div><div>345 EAST ASHE AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK SUMMARY OF QUANTITIES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MJP		REVISED -		7359	17-00706-00-BR	MACON	85	3				
	PLOT SCALE = 100.0000' / in.	CHECKED - BKN	REVISED -		CONTRACT NO. 95841								
	PLOT DATE = 10/09/2018	DATE - 9/10/2018	REVISED -		SCALE: N/A	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				





- ① PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
 - ② COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG)
 - ③ * PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
 - ④ ** SUBBASE GRANULAR MATERIAL, TYPE B, 4"
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" SKIP DASH WHITE
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" SOLID YELLOW WITH 4" SKIP DASH YELLOW
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 4" SOLID WHITE
- * SEE 'BITUMINOUS MIXTURE REQUIREMENTS' TABLE FOR HMA LIFT THICKNESSES
** COST INCLUDED WITH PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

REMOVAL SCHEDULE

BEGINNING		ENDING		STAGE	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL
STATION	OFFSET	STATION	OFFSET		(SQ YD)	(FOOT)	(SQ FT)
140+92.00	RT	141+88.44	RT	1	245		
140+92.00	LT	141+97.43	LT	2	317		
143+01.99	RT	143+56.00	RT	1	215		
142+80.85	LT	143+56.00	LT	2	190		
140+92.00	RT	141+78.69	RT	1		87	
140+92.00	LT	141+98.52	LT	2		107	
142+71.11	RT	143+56.00	RT	1		85	
142+90.59	LT	143+56.00	LT	2		65	
141+40.00	RT	141+78.17	RT	1			148
142+69.05	RT	143+01.18	RT	1			128
178+36.00	RT	179+34.57	RT	1	239		
178+36.00	LT	179+14.26	LT	2	252		
180+33.03	RT	181+00.00	RT	1	154		
180+02.98	LT	181+00.00	LT	2	328		
178+36.00	RT	179+36.72	RT	1		101	
178+36.00	LT	179+82.02	LT	2		46	
180+55.00	RT	181+00.00	RT	1		44	
180+00.80	LT	181+00.00	LT	2		99	
178+92.00	RT	179+00.00	RT	1			30
179+21.07	RT	179+41.68	RT	1			78
180+56.68	RT	180+85.33	RT	1			99
STAGE 1, 058-3035 TOTAL					460	172	276
STAGE 2, 058-3035 TOTAL					507	172	0
STAGE 1, 058-3036 TOTAL					393	145	207
STAGE 2, 058-3036 TOTAL					580	145	0
TOTAL					1,940	634	483

PAVEMENT SCHEDULE

BEGINNING		ENDING		STAGE	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	BITUMINOUS MATERIALS (PRIME COAT)	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	COMB CC&G TB6.24 VWGF
STATION	OFFSET	STATION	OFFSET		(SQ YD)	(POUND)	(SQ YD)	(FOOT)
140+92.00	RT	141+48.97	RT	1				57
140+92.00	LT	141+68.42	LT	2				77
143+01.39	RT	143+56.00	RT	1				55
143+20.83	LT	143+56.00	LT	2				35
140+92.00	RT	141+67.72	RT	1	160	467		
140+92.00	LT	141+58.13	LT	2	235	686		
143+02.12	RT	143+56.00	RT	1	129	377		
143+10.55	LT	143+56.00	LT	2	115	336		
141+40.00	RT	141+78.40	RT	1			162	
142+69.11	RT	143+01.18	RT	1			141	
178+36.00	LT	178+52.02	LT	2				16
178+36.00	RT	179+06.08	RT	1				70
180+30.80	LT	181+00.00	LT	2				70
180+84.85	RT	181+00.00	RT	1				16
178+36.00	RT	179+04.40	RT	1	152	444		
178+36.00	LT	178+84.96	LT	2	138	403		
180+63.73	RT	181+00.00	RT	1	69	202		
180+32.48	LT	181+00.00	LT	2	215	628		
178+92.00	RT	179+00.00	RT	1			31	
179+21.07	RT	179+41.32	RT	1			89	
180+56.18	RT	180+85.30	RT	1			119	
STAGE 1, 058-3035 TOTAL					289	844	303	112
STAGE 2, 058-3035 TOTAL					350	1,022	0	112
STAGE 1, 058-3036 TOTAL					221	646	239	86
STAGE 2, 058-3036 TOTAL					353	1,031	0	86
TOTAL					1,213	3,543	542	396

TEMPORARY CONCRETE BARRIER SCHEDULE

BEGINNING		ENDING		STAGE	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2
STATION	OFFSET	STATION	OFFSET		(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
139+90.50	6.8' RT	144+64.50	6.9' RT	1	475.0		108	1	1		
178+21.50	0.7' RT	181+34.00	0.5' LT	1	312.5		69	1	1		
139+98.00	4.8' LT	145+34.00	15.6' LT	2		537.5	123			1	1
177+77.50	1.7' LT	180+27.50	3.0' RT	2		250.0	57				1
180+27.50	3.0' RT	181+15.00	1.5' RT	2	87.5		18			1	
STAGE 1, 058-3035 TOTAL					475	0	108	1	1	0	0
STAGE 2, 058-3035 TOTAL					0	537.5	123	0	0	1	1
STAGE 1, 058-3036 TOTAL					312.5	0	69	1	1	0	0
STAGE 2, 058-3036 TOTAL					87.5	250	75	0	0	1	1
TOTAL					875	787.5	375	2	2	2	2

DRAINAGE SCHEDULE

[illegible]

TEMPORARY PAVEMENT MARKING SCHEDULE

BEGINNING		ENDING		STAGE	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS
STATION	OFFSET	STATION	OFFSET		(FOOT)	(SQ FT)
YELLOW						
139+42.60	16.2' LT	140+15.00	14.4' LT	1	72.0	
139+42.60	28.6' LT	140+34.38	24.6' LT	1	91.9	
140+15.00	14.4' LT	141+83.00	14.4' LT	1	168.0	
140+34.38	24.6' LT	141+83.00	14.4' LT	1	149.0	
145+20.00	16.8' LT	147+00.00	11.3' LT	1	180.1	
145+20.00	16.8' LT	147+00.00	23.3' LT	1	180.1	
147+00.00	11.3' LT	148+30.00	11.2' LT	1	130.0	
147+00.00	23.3' LT	148+30.00	23.2' LT	1	130.0	
149+72.00	22.9' LT	150+74.50	23.3' LT	1	102.6	
150+22.50	11.7' LT	150+74.50	23.3' LT	1	53.5	
150+62.00	0.0'	151+70.00	24.0' LT	1	110.7	
151+70.00	24.0' LT	152+30.00	20.0' LT	1	60.1	
153+25.00	13.6' LT	153+50.00	11.9' LT	1	25.1	
174+10.00	12.00' LT	175+43.00	12.00' LT	1	133.0	
174+10.00	24.00' LT	175+43.00	24.00' LT	1	133.0	
175+90.00	24.00' LT	176+61.00	24.00' LT	1	71.0	
176+00.00	12.00' LT	176+61.00	12.00' LT	1	61.0	
177+65.00	16.4' LT	181+48.00	16.4' LT	1	383.0	
177+65.00	24.4' LT	181+00.00	24.4' LT	1	335.0	
181+00.00	24.4' LT	181+48.00	16.4' LT	1	48.7	
182+50.00	14.5' LT	185+70.00	8.5' LT	1	320.0	
182+50.00	24.3' LT	185+70.00	24.6' LT	1	320.1	
186+30.00	22.7' LT	188+50.00	16.0' LT	1	220.1	
189+43.00	13.2' LT	190+00.00	11.5' LT	1	57.0	
DOUBLE YELLOW						
141+83.00	14.4' LT	144+55.00	14.4' LT	1	272.0	
141+83.00	14.4' LT	144+55.00	14.4' LT	1	272.0	
144+55.00	14.4' LT	145+20.00	16.8' LT	1	65.1	
144+55.00	14.4' LT	145+20.00	16.8' LT	1	65.1	
WHITE						
132+60.00	20.6' RT	135+80.00	8.4' RT	1	320.3	
136+55.00	8.8' RT	138+55.00	9.9' RT	1	200.0	
138+55.00	9.9' RT	140+15.00	2.4' LT	1	160.5	
140+15.00	2.4' LT	140+65.00	2.4' LT	1	50.0	
169+50.00	24.00' RT	172+50.00	12.00' RT	1	300.2	
172+50.00	12.00' RT	172+85.00	12.00' RT	1	35.0	
173+90.00	12.00' RT	175+70.00	0.0'	1	180.4	
175+70.00	0.0'	176+34.87	0.0'	1	64.9	
176+34.87	0.0'	177+02.15	62.0' RT	1	95.0	
176+68.52	44.2' RT	178+13.28	2.4' LT	1	70.4	
178+13.28	2.4' LT	178+46.50	2.4' LT	1	33.2	
SUBTOTAL					5,719	0


BEGINNING		ENDING		STAGE	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS
STATION	OFFSET	STATION	OFFSET		(FOOT)	(SQ FT)
YELLOW						
131+70.00	2.3' LT	132+65.00	0.2' RT	2	95.0	
133+72.50	3.0' RT	135+80.00	8.4' RT	2	207.5	
133+72.50	3.0' RT	134+50.00	3.7' LT	2	77.7	
134+50.00	3.7' LT	134+67.00	3.7' LT	2	17.1	
136+86.00	4.5' LT	137+34.00	4.5' LT	2	48.0	
137+34.00	4.5' LT	138+92.00	10.0' RT	2	158.6	
136+86.00	9.0' RT	138+92.00	10.0' RT	2	206.0	
144+35.00	12.8' RT	146+75.00	11.2' LT	2	241.0	
144+35.00	12.8' RT	146+75.00	12.3' RT	2	239.2	
146+75.00	11.2' LT	148+10.00	12.1' LT	2	134.4	
169+90.00	0.1' RT	170+95.00	3.8' RT	2	105.1	
169+90.00	11.5' LT	170+95.00	11.5' LT	2	105.0	
171+65.00	6.4' RT	173+10.00	11.5' RT	2	145.1	
171+65.00	11.5' LT	173+10.00	11.5' LT	2	145.0	
173+70.00	11.5' RT	173+83.00	11.5' RT	2	13.0	
173+83.00	11.5' RT	174+75.00	0.0'	2	92.7	
173+70.00	0.0'	175+45.00	0.0'	2	175.0	
176+00.00	11.5' RT	176+50.00	11.5' RT	2	50.0	
176+00.00	0.0'	176+50.00	0.0'	2	50.0	
186+25.00	8.7' LT	186+61.50	11.8' LT	2	36.6	
DOUBLE YELLOW						
139+30.00	10.2' RT	140+60.00	14.5' RT	2	130.1	
139+30.00	10.2' RT	140+60.00	14.5' RT	2	130.1	
140+60.00	14.5' RT	143+85.00	14.5' RT	2	325.0	
140+60.00	14.5' RT	143+85.00	14.5' RT	2	325.0	
143+85.00	14.5' RT	144+35.00	12.8' RT	2	50.8	
143+85.00	14.5' RT	144+35.00	12.8' RT	2	50.8	
177+55.00	6.5' RT	178+15.00	14.0' RT	2	60.5	
177+55.00	6.5' RT	178+15.00	14.0' RT	2	60.5	
178+15.00	14.0' RT	181+15.00	14.0' RT	2	300.0	
178+15.00	14.0' RT	181+15.00	14.0' RT	2	300.0	
182+70.00	12.1' RT	183+15.00	12.1' RT	2	45.0	
182+70.00	12.1' RT	183+15.00	12.1' RT	2	45.0	
183+15.00	12.1' RT	185+70.00	4.1' RT	2	255.1	
183+15.00	12.1' RT	185+70.00	4.1' RT	2	255.1	
WHITE						
139+30.00	1.3' LT	140+60.00	3.0' RT	2	130.1	
143+85.00	3.0' RT	144+35.00	1.3' RT	2	50.0	
144+35.00	1.3' RT	146+75.00	22.7' LT	2	241.2	
146+75.00	22.7' LT	148+10.00	23.6' LT	2	135.0	
149+63.00	24.0' LT	152+83.00	35.5' LT	2	320.2	
SUBTOTAL					11,271	0

BEGINNING		ENDING		STAGE	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS
STATION	OFFSET	STATION	OFFSET		(FOOT)	(SQ FT)
174+75.00	11.5' RT	175+45.00	11.5' RT	2	70.0	
173+70.00	12.0' LT	175+45.00	12.0' LT	2	175.0	
181+02.50	3.0' RT	181+15.00	3.0' RT	2	14.3	
181+15.00	3.0' RT	181+78.00	84.1' RT	2	121.4	
182+70.00	0.0'	183+15.00	0.0'	2	45.0	
183+15.00	0.0'	184+10.00	2.9' RT	2	95.0	
184+10.00	2.9' RT	185+70.00	16.2' RT	2	160.6	
186+40.00	22.0' LT	186+70.50	24.6' LT	2	30.6	
186+70.50	24.6' LT	188+50.00	24.6' LT	2	179.5	
189+45.00	28.0' LT	191+70.00	36.0' LT	2	225.1	
WHITE - LEFT ARROW						
173+87.00	7.0' LT	173+87.00	7.0' LT	2		15.6
175+14.00	7.0' RT	175+14.00	7.0' RT	2		15.6
STAGE 1, 058-3035 TOTAL					2,858	0
STAGE 2, 058-3035 TOTAL					3,313	0
STAGE 1, 058-3036 TOTAL					2,861	0
STAGE 2, 058-3036 TOTAL					3,355	32
TOTAL					12,387	32

BEGINNING		ENDING		STAGE	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH
STATION	OFFSET	STATION	OFFSET		(FOOT)
WHITE					
181+54.00	10.7' LT	181+54.00	15.9' LT	1	5.2
182+70.00	0.0'	182+70.00	12.0' RT	2	12.0
STAGE 1, 058-3035 TOTAL					0
STAGE 2, 058-3035 TOTAL					0
STAGE 1, 058-3036 TOTAL					6
STAGE 2, 058-3036 TOTAL					12
TOTAL					18

RIPRAP SCHEDULE

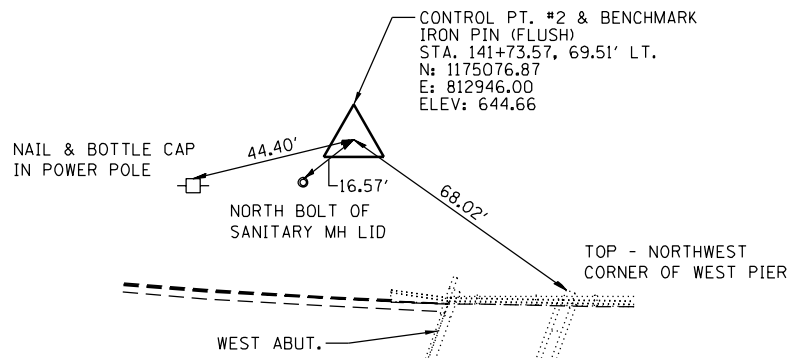
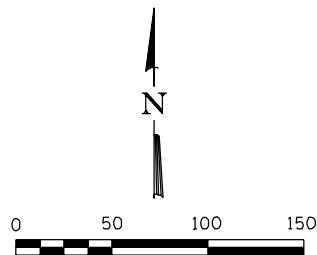
BEGINNING		ENDING		STAGE	LENGTH	WIDTH	AREA	STONE RIPRAP, CLASS A4	FILTER FABRIC
STATION	OFFSET	STATION	OFFSET		(FOOT)	(FOOT)	(SQ FT)	(SQ YD)	(SQ YD)
178+75.00	LT	178+82.00	LT	2	6	6	36	4	4
STAGE 1, 058-3035 TOTAL								0	0
STAGE 2, 058-3035 TOTAL								0	0
STAGE 1, 058-3036 TOTAL								0	0
STAGE 2, 058-3036 TOTAL								4	4
TOTAL								4	4

 345 EAST ASHE AVE. SUITE B DECATUR, IL 62526 (217) 875-4800	USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK				F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJP	REVISED -		SCHEDULE OF QUANTITIES				7359	17-00706-00-BR	MACON	85	8
	PLOT SCALE = 100.0000' / in.	CHECKED - BKN	REVISED -						CONTRACT NO. 95841				
	PLOT DATE = 10/4/2018	DATE - 9/10/2018	REVISED -		SCALE: N/A SHEET 3 OF 4 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

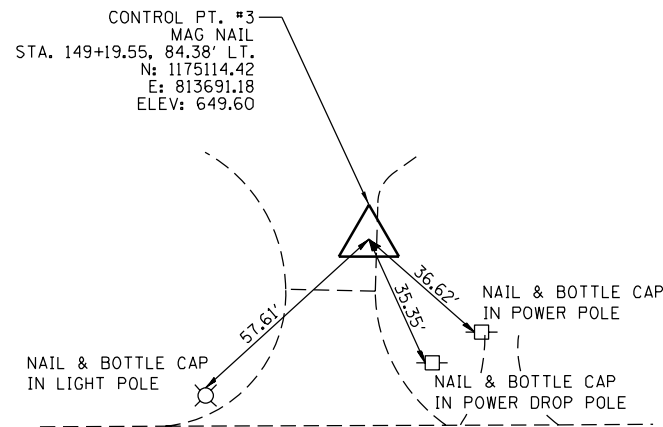
PAVEMENT MARKING SCHEDULE

BEGINNING		ENDING		STAGE	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
STATION	OFFSET	STATION	OFFSET		(FOOT)	(FOOT)	(FOOT)	(SQ FT)
YELLOW								
169+90.00	11.5' LT	170+95.00	11.5' LT	2	105.0			
171+65.00	11.5' LT	173+10.00	11.5' LT	2	145.0			
173+87.00	11.6' LT	179+03.50	11.6' LT	2	516.5			
173+87.00	0.0'	179+12.70	0.5' RT	2	525.7			
YELLOW SKIP DASH								
169+90.00	11.0' LT	170+95.00	11.0' LT	2	26.3			
171+65.00	11.0' LT	173+10.00	11.0' LT	2	36.3			
173+87.00	10.6' LT	179+03.50	10.6' LT	2	129.1			
173+87.00	1.0' LT	179+12.70	0.6' LT	2	131.4			
DOUBLE YELLOW								
136+85.00	4.5' LT	137+36.00	4.5' LT	2	51.0			
136+85.00	4.5' LT	137+36.00	4.5' LT	2	51.0			
137+36.00	4.5' LT	138+22.00	16.5' LT	2	87.0			
137+36.00	4.5' LT	138+22.00	16.5' LT	2	87.0			
138+22.00	16.5' LT	138+84.00	17.1' LT	2	62.0			
138+22.00	16.5' LT	138+84.00	17.1' LT	2	62.0			
139+29.00	2.6' LT	146+30.00	0.0'	2	702.0			
139+29.00	2.6' LT	146+30.00	0.0'	2	702.0			
139+58.00	2.5' LT	140+17.00	12.7' LT	2	59.0			
139+58.00	2.5' LT	140+17.00	12.7' LT	2	59.0			
140+17.00	12.7' LT	142+28.70	0.0'	2	212.0			
140+17.00	12.7' LT	142+28.70	0.0'	2	212.0			
143+64.00	0.0'	147+11.00	11.0' LT	2	347.0			
143+64.00	0.0'	147+11.00	11.0' LT	2	347.0			
147+11.00	11.0' LT	148+30.00	11.6' LT	2	119.0			
147+11.00	11.0' LT	148+30.00	11.0' LT	2	119.0			
179+03.50	11.6' RT	181+55.00	11.6' RT	2	251.5			
179+03.50	11.6' RT	181+55.00	11.6' RT	2	251.5			
182+47.00	11.3' LT	182+69.40	0.4' LT	2	26.5			
182+47.00	11.5' LT	182+69.40	0.4' LT	2	26.5			
182+69.40	0.4' LT	186+61.50	11.2' LT	2	392.3			
182+69.40	0.4' LT	186+61.50	11.2' LT	2	392.3			
182+47.00	11.3' LT	186+61.50	11.2' LT	2	414.5			
182+47.00	11.5' LT	186+61.50	11.2' LT	2	414.5			
YELLOW DIAGONAL - PAINTED MEDIAN								
139+74.00	4.7' LT	139+76.00	2.7' LT	2		2.9		
139+89.40	7.2' LT	139+94.00	2.5' LT	2		6.6		
140+06.40	10.3' LT	140+14.30	2.2' LT	2		11.3		
140+26.80	11.7' LT	140+36.10	2.1' LT	2		13.4		
140+46.00	10.5' LT	140+54.40	1.9' LT	2		12.1		
140+68.00	9.2' LT	140+75.30	1.6' LT	2		10.5		
140+91.10	7.6' LT	141+97.00	1.5' LT	2		8.5		
141+10.50	6.2' LT	141+15.30	1.3' LT	2		6.8		

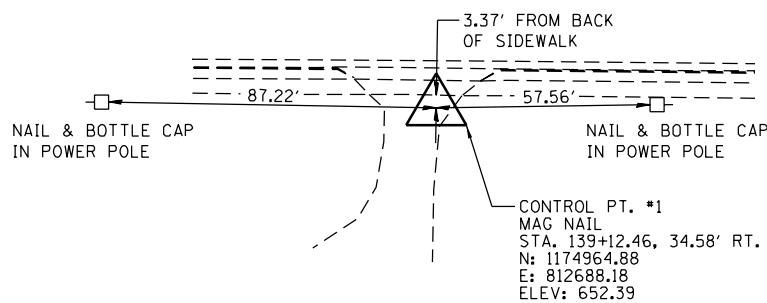
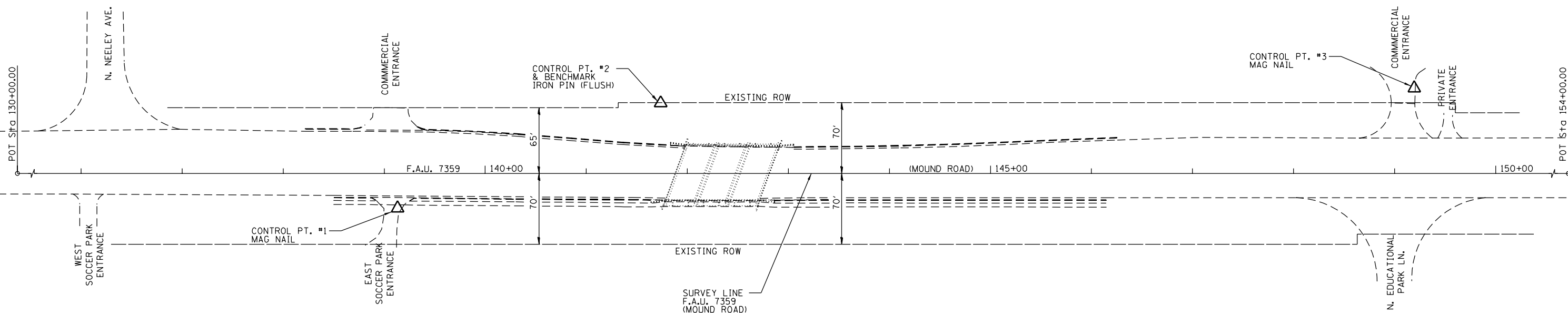
BEGINNING		ENDING		STAGE	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
STATION	OFFSET	STATION	OFFSET		(FOOT)	(FOOT)	(FOOT)	(SQ FT)
YELLOW DIAGONAL - PAINTED MEDIAN								
145+36.50	5.1' LT	145+40.90	0.6' LT	2		6.2		
145+56.50	5.8' LT	145+61.60	0.6' LT	2		7.3		
145+76.40	6.6' LT	145+82.30	0.6' LT	2		8.4		
145+97.40	7.3' LT	146+04.00	0.5' LT	2		9.5		
146+14.90	7.9' LT	146+21.90	0.7' LT	2		10.1		
146+34.80	8.7' LT	146+41.20	2.1' LT	2		9.2		
146+54.90	9.3' LT	146+59.50	4.6' LT	2		6.6		
146+76.00	9.8' LT	146+78.70	7.0' LT	2		3.9		
182+51.00	11.0' LT	182+60.00	2.6' LT	2		11.0		
182+79.00	11.0' LT	182+89.00	1.0' LT	2		15.0		
183+07.00	11.0' LT	183+17.00	1.0' LT	2		14.0		
183+35.00	11.0' LT	183+44.00	2.1' LT	2		13.0		
183+63.00	11.0' LT	183+71.00	3.0' LT	2		12.0		
183+91.00	11.0' LT	183+98.00	3.6' LT	2		11.0		
184+18.00	11.0' LT	184+25.00	4.5' LT	2		9.5		
184+47.00	11.0' LT	184+52.00	5.4' LT	2		8.0		
184+74.50	11.0' LT	184+79.50	6.1' LT	2		7.0		
185+02.50	11.0' LT	182+06.50	7.0' LT	2		6.0		
185+30.00	11.0' LT	185+34.00	7.8' LT	2		5.0		
185+58.50	11.0' LT	185+60.80	8.6' LT	2		4.0		
WHITE								
138+22.00	3.5' LT	138+84.00	3.0' LT	2	62.0			
139+28.00	16.6' LT	139+59.00	15.8' LT	2	31.0			
150+22.50	11.7' LT	150+65.50	11.7' LT	2	43.0			
179+75.00	0.2' RT	181+55.00	0.2' RT	2	180.0			
181+54.00	11.5' LT	181+54.00	24.0' RT	2			36.0	
WHITE - LEFT ARROW								
138+54.00	9.0' LT	138+54.00	9.0' LT	2				15.6
139+44.00	9.9' LT	139+44.00	9.9' LT	2				15.6
174+03.00	6.0' LT	174+03.00	6.0' LT	2				15.6
174+19.00	6.0' LT	174+19.00	6.0' LT	2				15.6
176+27.00	6.0' LT	176+27.00	6.0' LT	2				15.6
176+43.00	6.0' LT	176+43.00	6.0' LT	2				15.6
180+06.00	6.0' LT	180+06.00	6.0' LT	2				15.6
180+71.00	6.0' LT	180+71.00	6.0' LT	2				15.6
181+36.00	6.0' LT	181+36.00	6.0' LT	2				15.6
WHITE SKIP DASH								
133+72.50	9.1' RT	135+80.00	8.4' RT	2	51.9			
136+65.00	9.0' RT	147+05.00	12.3' RT	2	260.0			
138+80.00	29.3' LT	148+60.00	23.0' LT	2	245.0			
149+65.00	22.9' LT	151+70.00	23.7' LT	2	51.3			
172+20.00	12.9' RT	181+55.00	13.2' RT	2	233.8			
174+10.00	24.0' LT	181+55.00	24.2' LT	2	186.3			
182+50.00	24.4' LT	186+15.00	24.6' LT	2	91.3			
186+15.00	24.6' LT	191+70.00	24.7' LT	2	138.8			
182+50.00	13.0' RT	185+70.00	4.6' RT	2	80			
STAGE 1, 058-3035 TOTAL					0	0	0	0
STAGE 2, 058-3035 TOTAL					4,023	160	0	32



TIES TO CONTROL POINT #2 & BENCHMARK



TIES TO CONTROL POINT #3



TIES TO CONTROL POINT #1

MOUND ROAD SURVEY LINE

Point 2000	N: 1,174,971.676	E: 811,775.087	Sta 130+00.00
Course from 2000 to 2005 N 88° 15' 23" E Dist 1,234.640			
Point 2005	N: 1,175,009.244	E: 813,009.155	Sta 142+34.64
Course from 2005 to 2001 N 88° 15' 23" E Dist 1,165.360			
Point 2001	N: 1,175,044.704	E: 814,173.975	Sta 154+00.00

AECOM

345 EAST ASHE AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MJP
DRAWN - BKN
PLOT SCALE = 100.0000' / in.
CHECKED - REZ
PLOT DATE = 10/4/2018
DATE - 9/11/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - REZ
DATE - 9/11/2018

REVISED -
REVISED -
REVISED -
REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

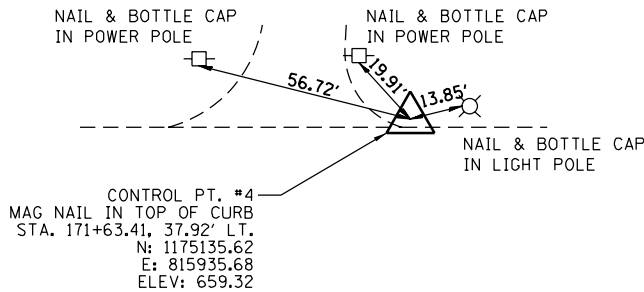
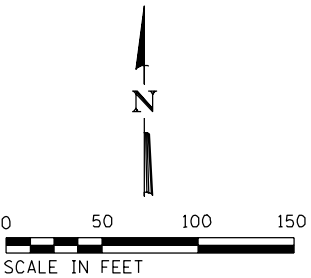
F.A.U. 7359 (MOUND ROAD) OVER SPRING CREEK
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 130+00.00 TO STA. 154+00.00

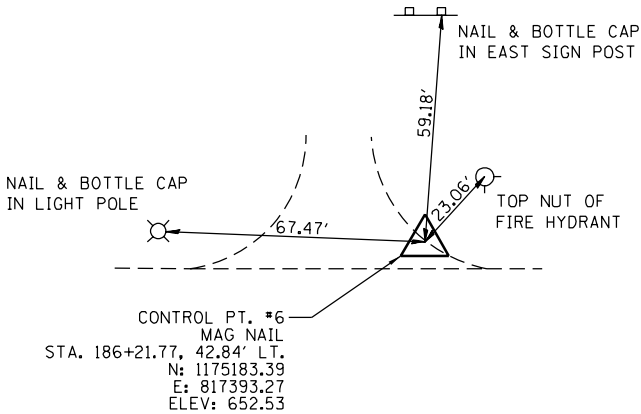
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	10
STRUCTURE NO. 058-3035		CONTRACT NO. 9584		
ILLINOIS FED. AID PROJECT				

MOUND ROAD SURVEY LINE

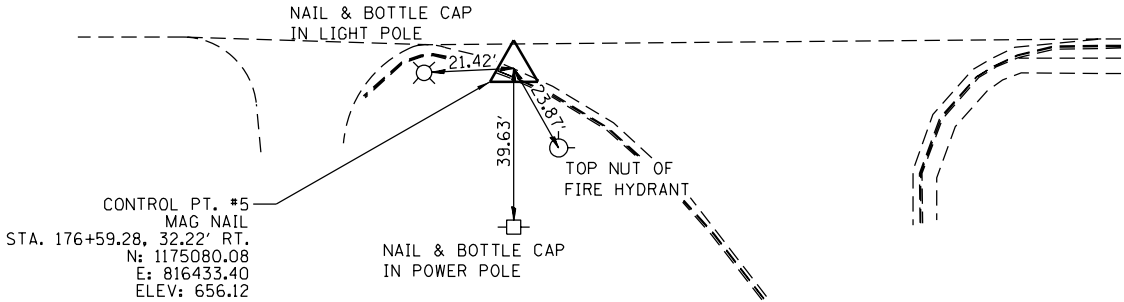
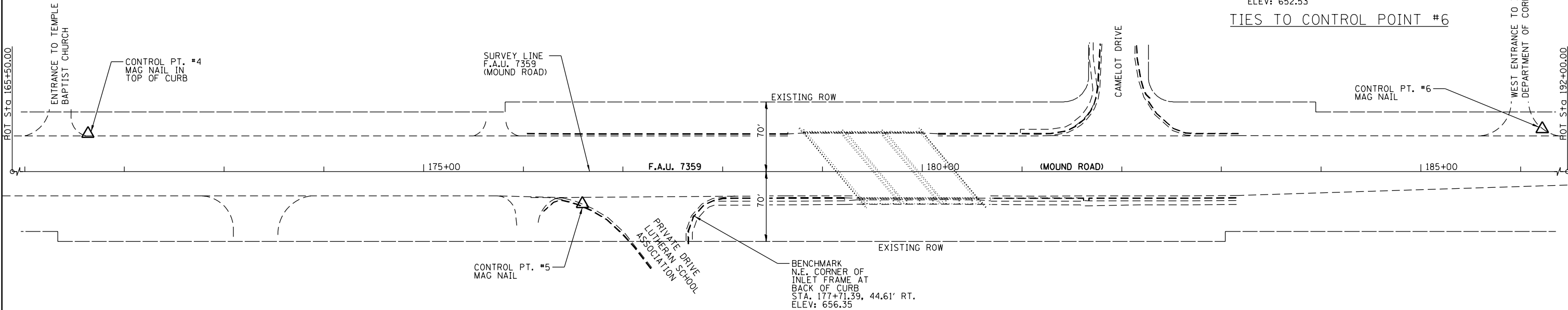
Point 2002	N: 1,175,079.705	E: 815,323.652	Sta 165+50.00
Course from 2002 to 2006 N 88° 19' 00" E Dist 1,423.640			
Point 2006	N: 1,175,121.525	E: 816,746.678	Sta 179+73.64
Course from 2006 to 2003 N 88° 19' 00" E Dist 1,226.360			
Point 2003	N: 1,175,157.550	E: 817,972.508	Sta 192+00.00



TIES TO CONTROL POINT #4



TIES TO CONTROL POINT #6



TIES TO CONTROL POINT #5



345 EAST ASHE AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 100.0000' / in.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - REZ
DATE - 9/11/2018

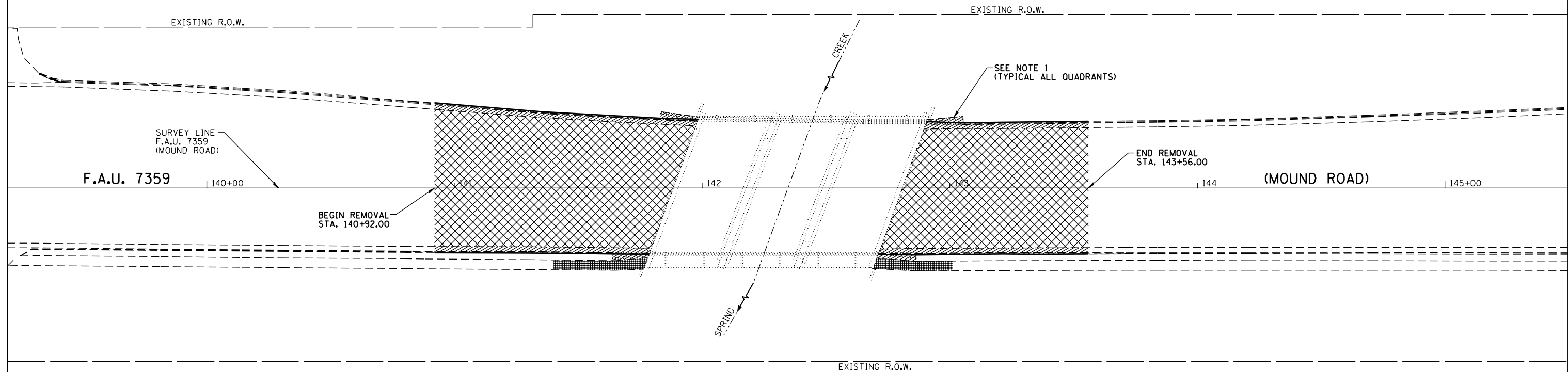
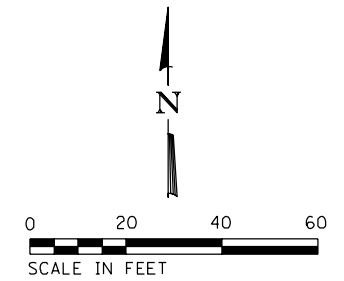
REVISED -
REVISED -
REVISED -
REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

F.A.U. 7359 (MOUND ROAD) OVER SPRING CREEK
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 165+50.00 TO STA. 192+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	11
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



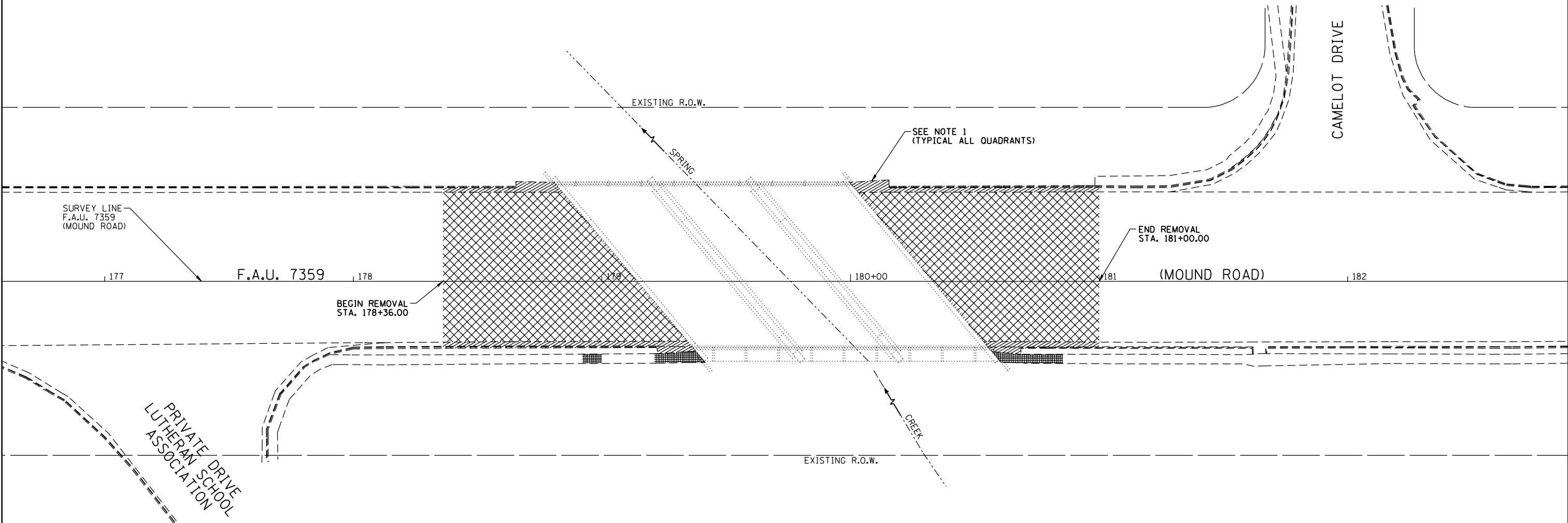
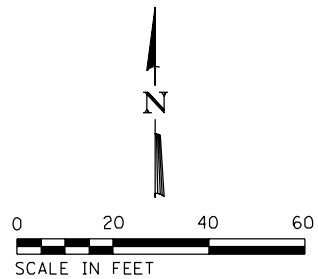
LEGEND

	APPROACH PAVEMENT REMOVAL
	CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL



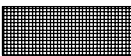
NOTES

1. REMOVAL OF EXISTING PARAPET TRANSITIONS SHALL BE INCLUDED IN THE COST OF CURB AND GUTTER REMOVAL.
2. SEE SHEET 14 OF 85 FOR DRAINAGE REMOVAL ITEMS.

<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK REMOVAL PLAN - SN 058-3035				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BKN	REVISED -		7359	17-00706-00-BR	MACON	85	12				
	PLOT SCALE = 40.00 ft / in.	CHECKED - MJP	REVISED -		STRUCTURE NO. 058-3035		CONTRACT NO. 95841						
	PLOT DATE = 10/4/2018	DATE - 9/10/2018	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE: 1" = 20'	SHEET 1	OF 2 SHEETS	STA. 140+92.00	TO STA. 143+56.00				




LEGEND

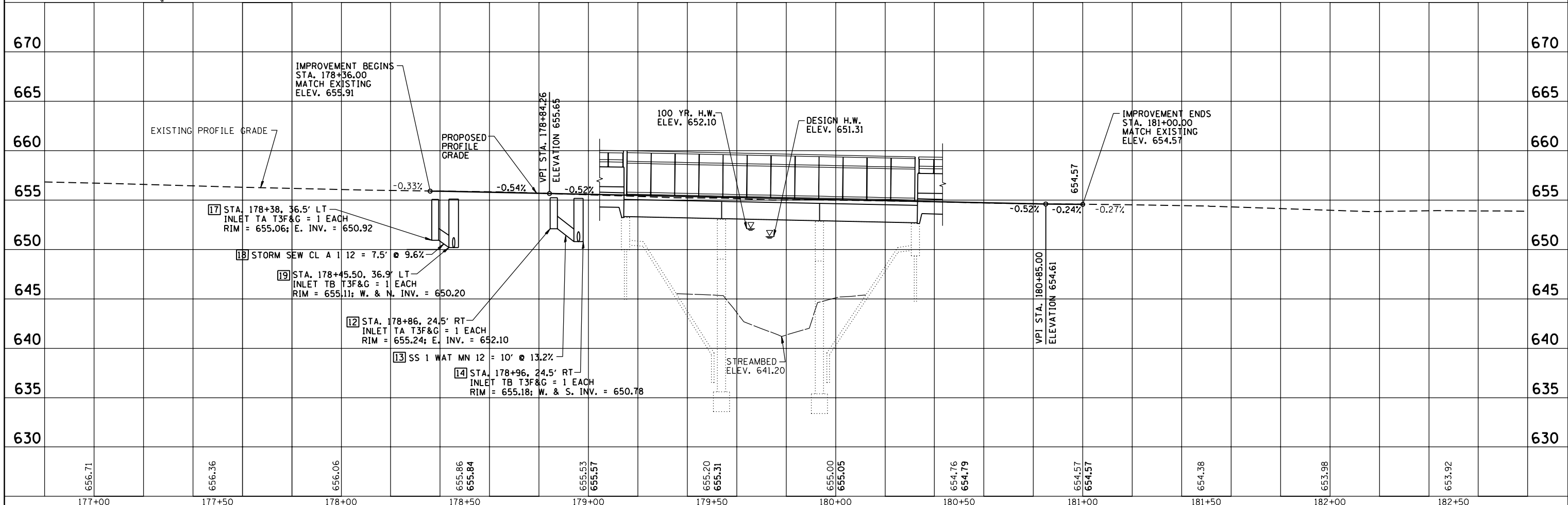
-  APPROACH PAVEMENT REMOVAL
-  CURB AND GUTTER REMOVAL
-  SIDEWALK REMOVAL


NOTES

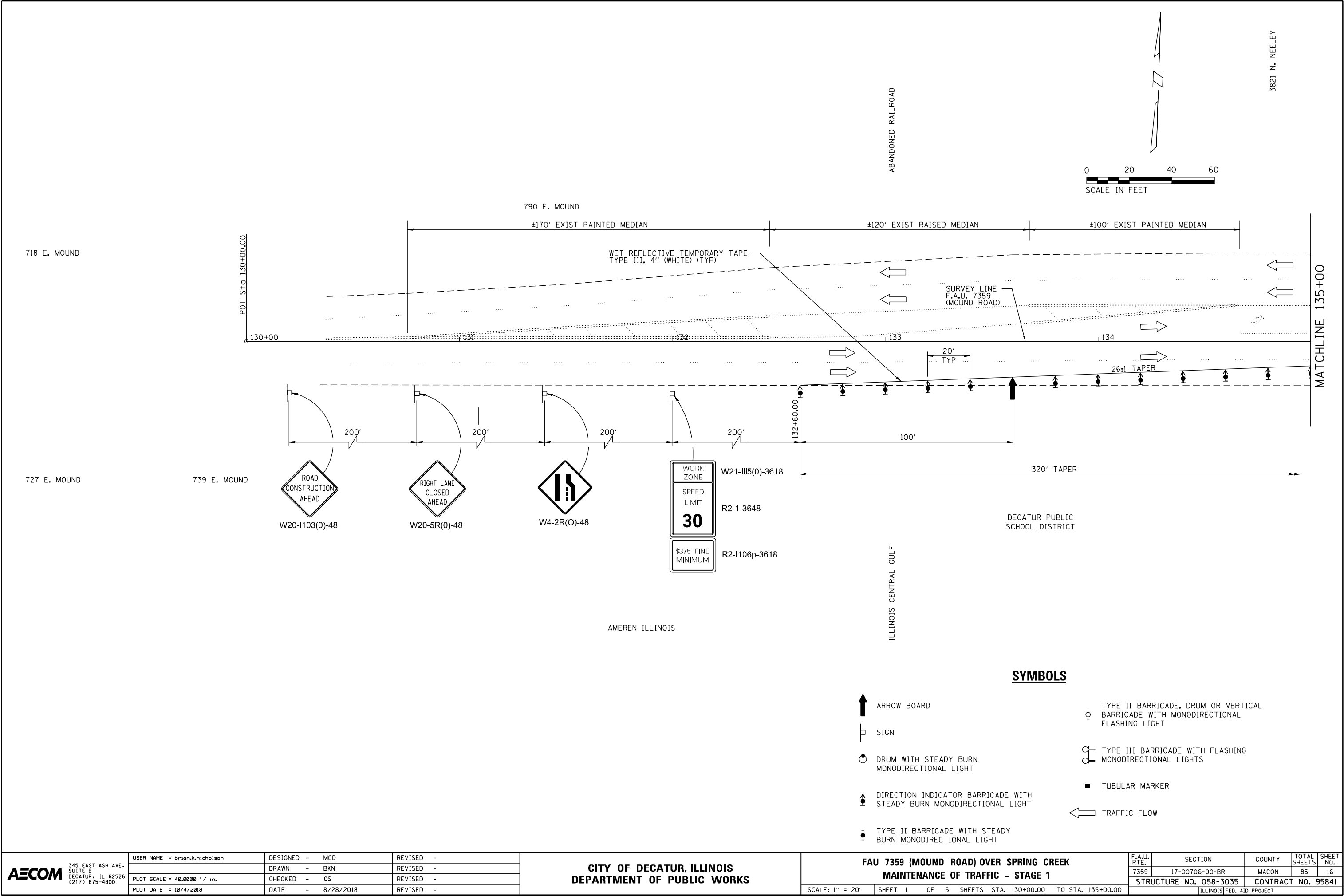
- REMOVAL OF EXISTING PARAPET TRANSITIONS SHALL BE INCLUDED IN THE COST OF CURB AND GUTTER REMOVAL.
- SEE SHEET 15 OF 85 FOR DRAINAGE REMOVAL ITEMS.

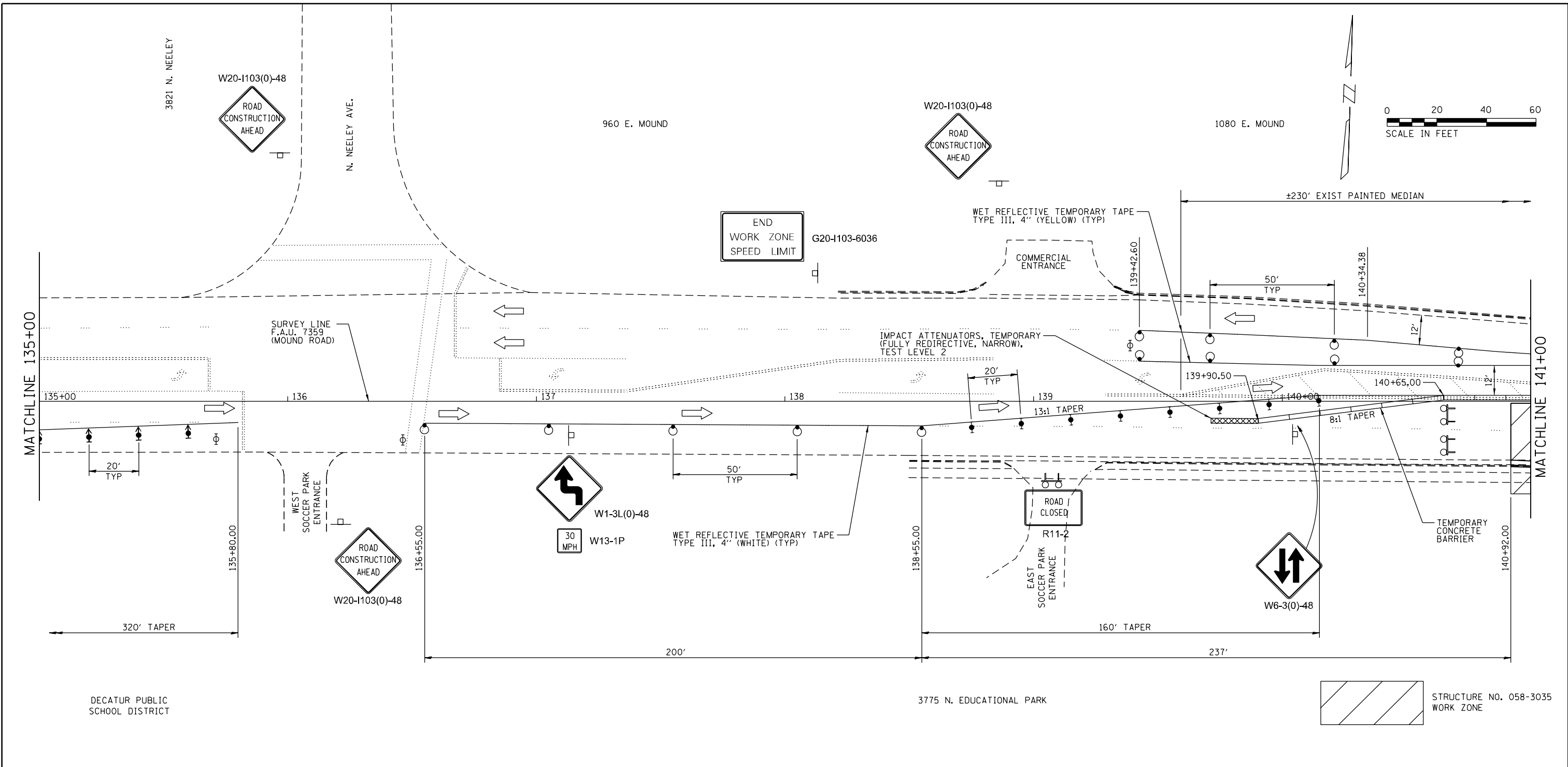
<div></div> <div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div>	USER NAME = brian.k.nicholson		DESIGNED - MJP	REVISED -	<div>CITY OF DECATUR, ILLINOIS</div> <div>DEPARTMENT OF PUBLIC WORKS</div>	<div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div> <div>REMOVAL PLAN - SN 058-3036</div>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BKN		CHECKED - MJP	REVISED -					7359	17-00706-00-BR	MACON	85	13
	PLOT SCALE = 40:1 ftn / in.		DATE - 9/10/2018	REVISED -		SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 178+36.00 TO STA. 181+00.00			STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
	PLOT DATE = 10/4/2018								ILLINOIS FED. AID PROJECT				

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
	B.L.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHECKED _____		



 345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800	USER NAME = brian.knicholson DESIGNED - MJP DRAWN - BKN	DESIGNED - MJP DRAWN - BKN	REVISED - REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS				FAU 7359 (MOUND ROAD) OVER SPRING CREEK PLAN AND PROFILE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40x0 ft/in. PLOT DATE = 10/4/2018	CHECKED - SMK DATE - 9/27/2018	REVISED - REVISED -									7359	17-00706-00-BR	MACON	85	15
					SCALE: 1" = 40'	SHEET 2 OF 2 SHEETS	STA. 178+40.00 TO STA. 181+00.00	STRUCTURE NO. 058-3036 CONTRACT NO. 95841								
					ILLINOIS FED. AID PROJECT											



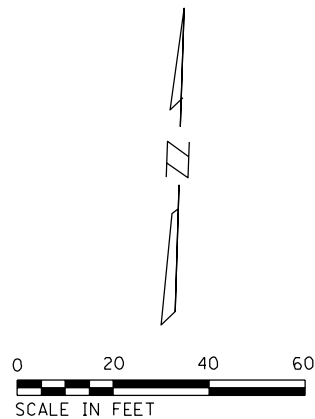
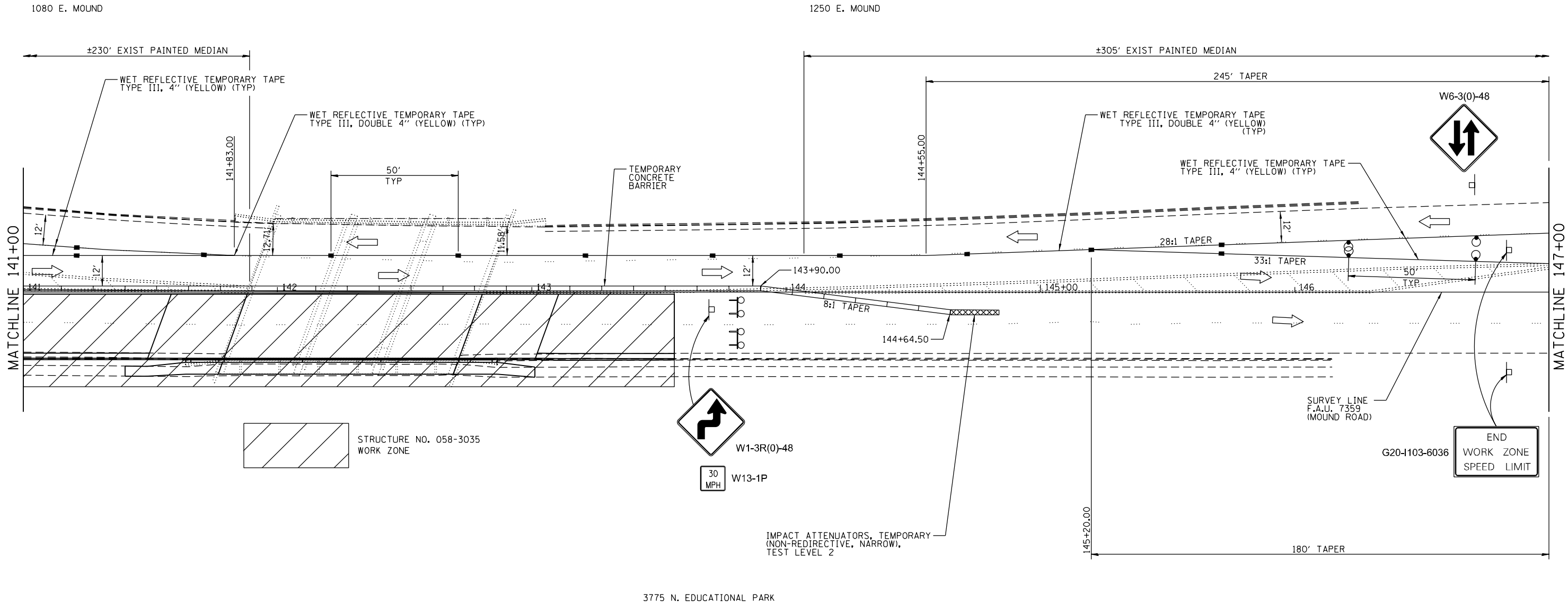


SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

NOTE:
SIDEWALK CLOSED IN ACCORDANCE WITH IDOT STANDARD 701801, EXCEPT THAT 'SIDEWALK CLOSED - USE OTHER SIDE' SIGN SHALL NOT BE USED.

<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MCD	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS</div><div>DEPARTMENT OF PUBLIC WORKS</div></div>	<div><div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div><div>MAINTENANCE OF TRAFFIC - STAGE 1</div></div>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BKN	REVISED -					7359	17-00706-00-BR	MACON	85	17
	PLOT SCALE = 40.0000' / in.	CHECKED - OS	REVISED -		STRUCTURE NO. 058-3035		CONTRACT NO. 95841					
	PLOT DATE = 10/4/2018	DATE - 8/28/2018	REVISED -		ILLINOIS FED. AID PROJECT							
					SCALE: 1" = 20'	SHEET 2 OF 5 SHEETS	STA. 135+00.00 TO STA. 141+00.00					

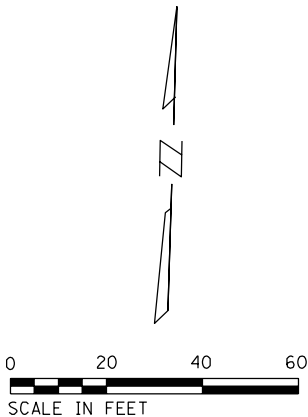
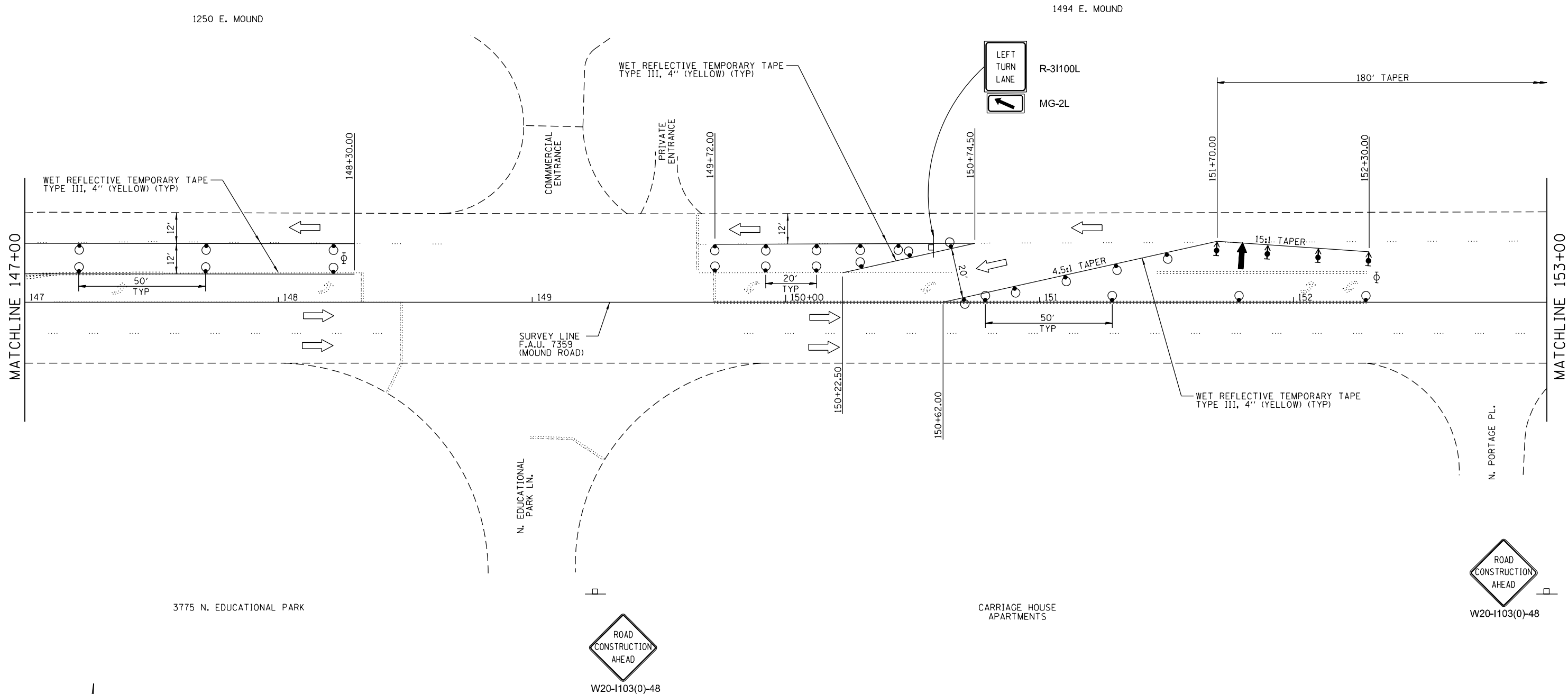


NOTE:
SIDEWALK CLOSED IN ACCORDANCE WITH IDOT STANDARD 701801, EXCEPT THAT
'SIDEWALK CLOSED - USE OTHER SIDE' SIGN SHALL NOT BE USED.

SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MCD	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS</div><div>DEPARTMENT OF PUBLIC WORKS</div></div>	<div><div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div><div>MAINTENANCE OF TRAFFIC – STAGE 1</div></div>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BKN	REVISED -						7359	17-00706-00-BR	MACON	85	18
	PLOT SCALE = 40.0000' / in.	CHECKED - OS	REVISED -		STRUCTURE NO. 058-3035				CONTRACT NO. 95841				
	PLOT DATE = 10/4/2018	DATE - 8/28/2018	REVISED -		SCALE: 1" = 20'				SHEET 3 OF 5 SHEETS				
					STA. 141+00.00 TO STA. 147+00.00				ILLINOIS FED. AID PROJECT				



SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
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- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MCD
DRAWN - BKN
PLOT SCALE = 40.0000' / in.
CHECKED - OS
PLOT DATE = 10/4/2018
DATE - 8/28/2018
REVISED -

DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
REVISED -

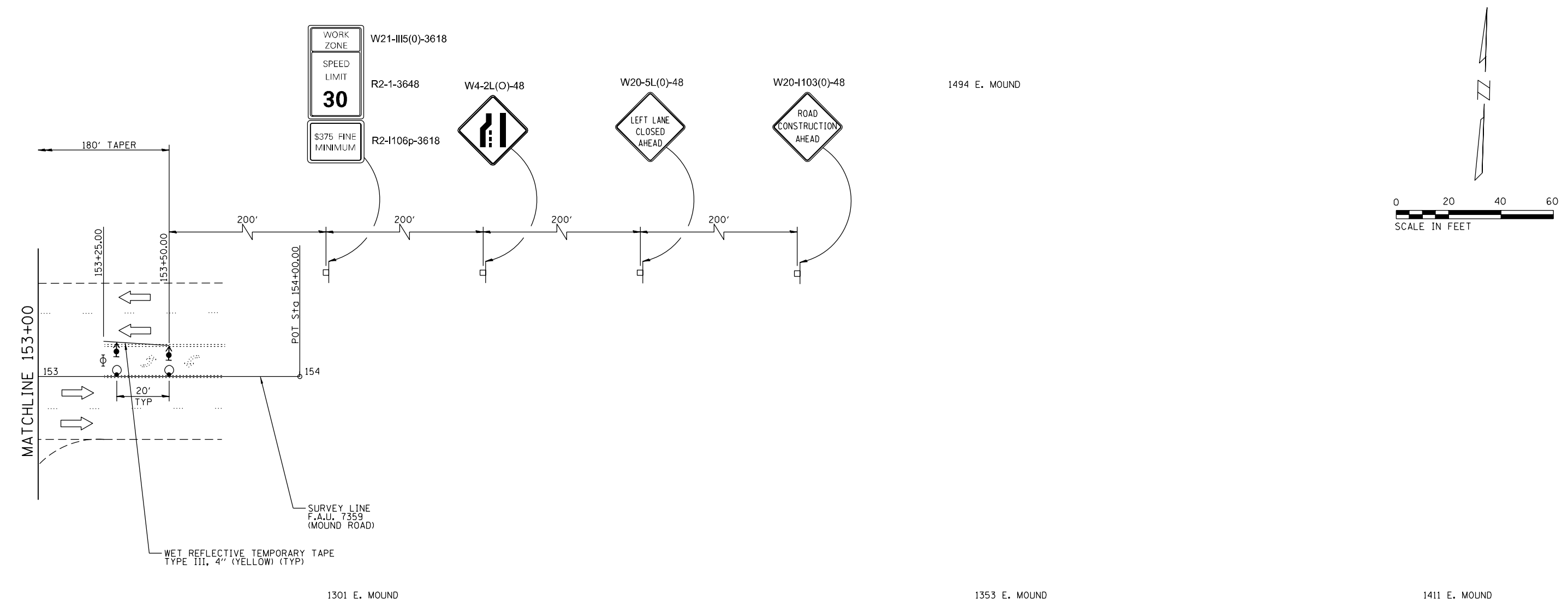
DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**










**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
MAINTENANCE OF TRAFFIC - STAGE 1**

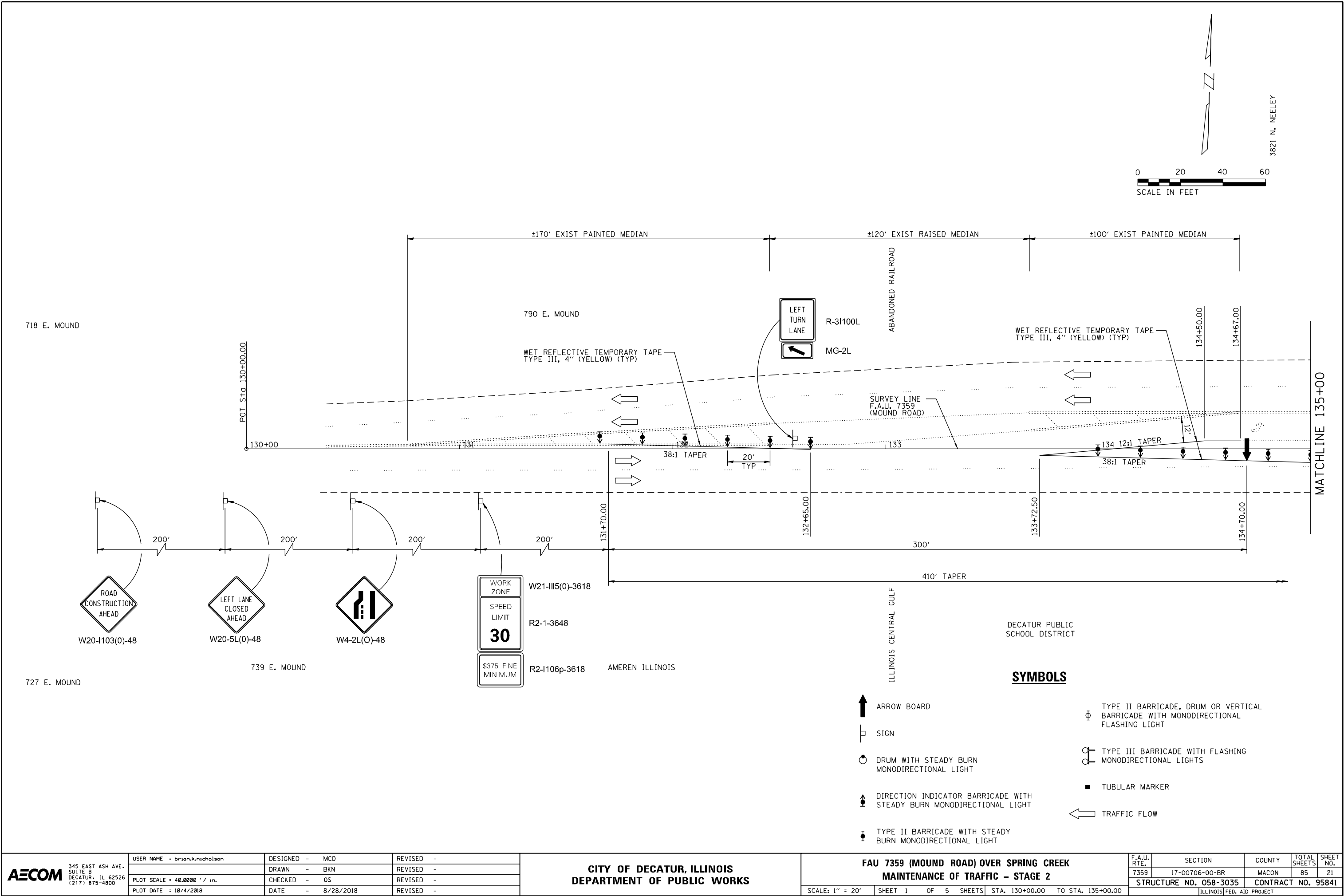
SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. 147+00.00 TO STA. 153+00.00

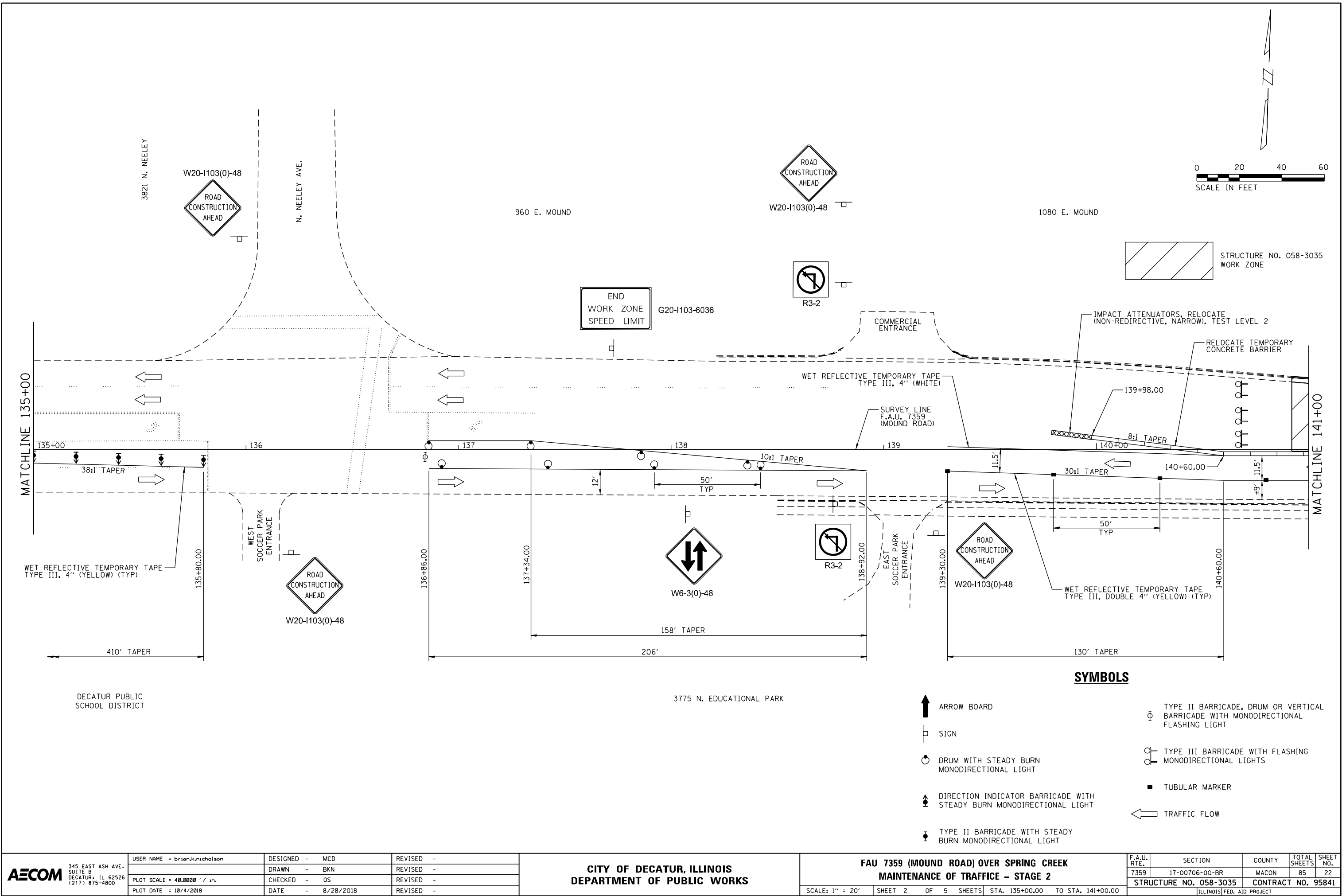
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	19
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



SYMBOLS

-  ARROW BOARD
-  SIGN
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
-  TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
-  TUBULAR MARKER
-  TRAFFIC FLOW





AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
PLOT SCALE = 40.0000' / in.
PLOT DATE = 10/4/2018

DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018

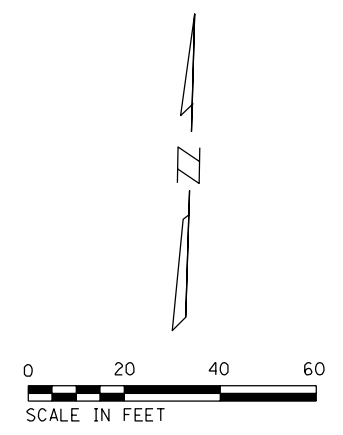
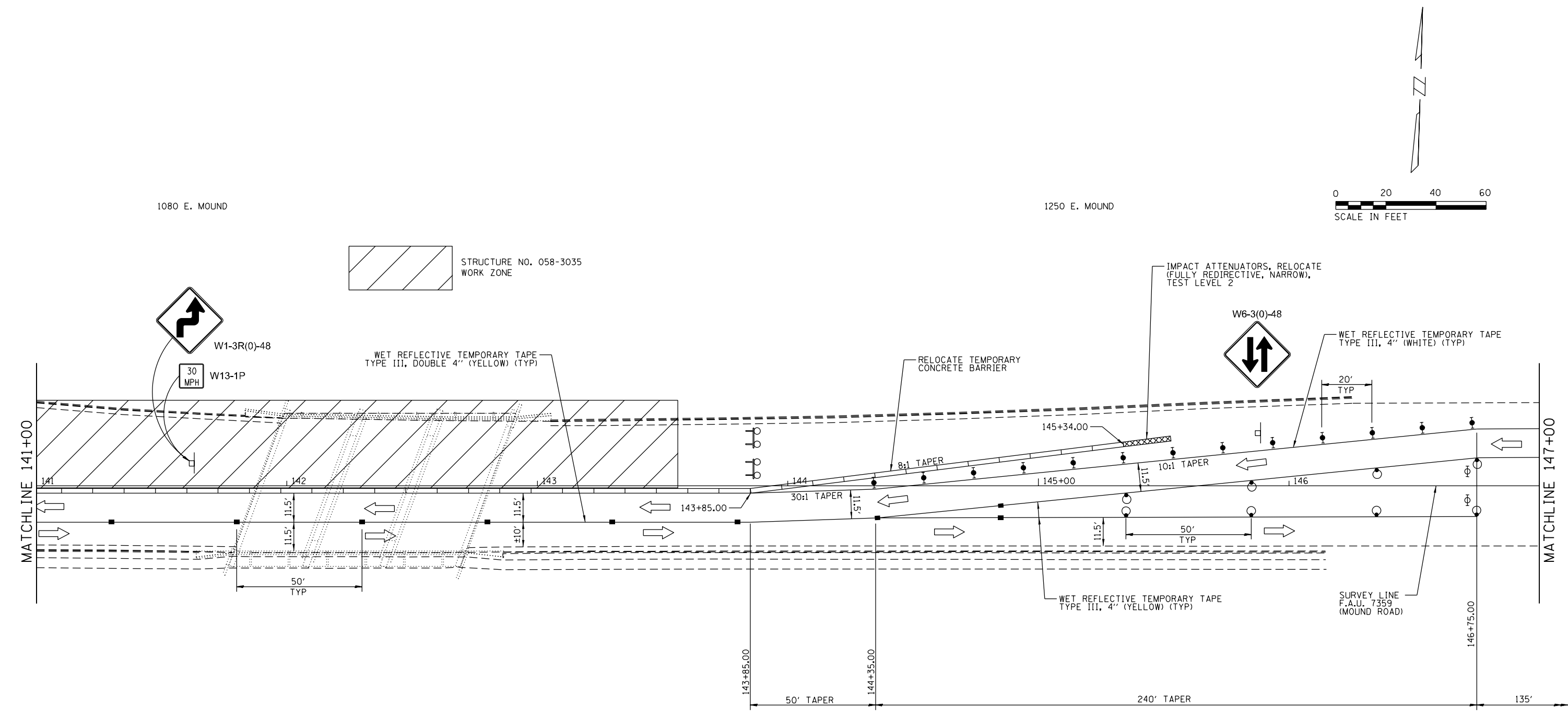
REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
MAINTENANCE OF TRAFFICE - STAGE 2**

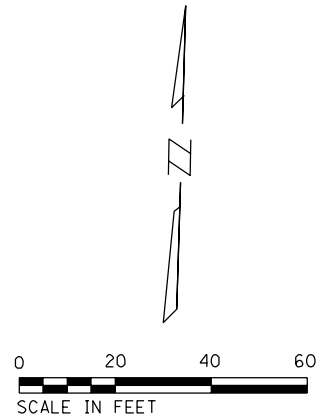
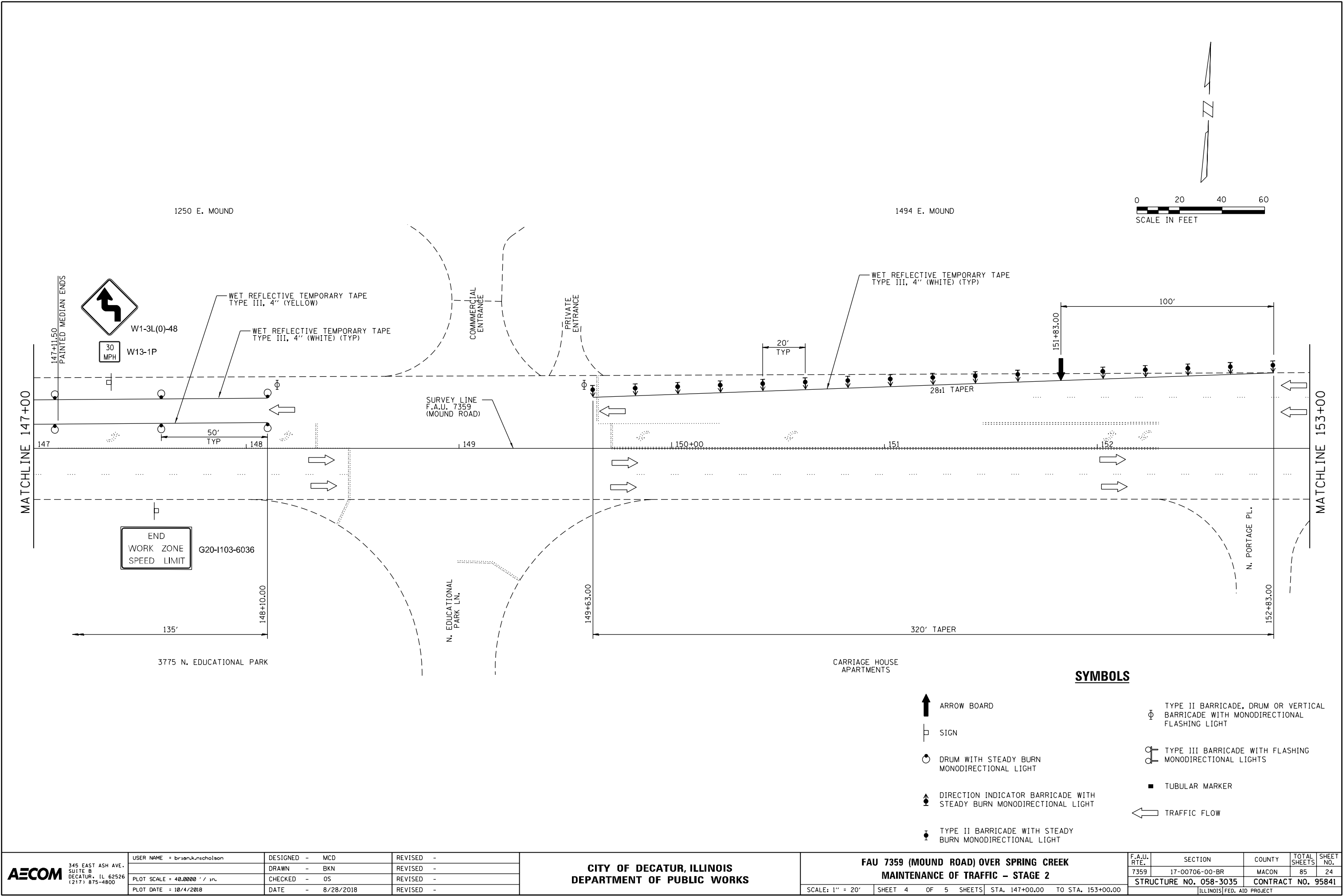
SCALE: 1" = 20' SHEET 2 OF 5 SHEETS STA. 135+00.00 TO STA. 141+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	22
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW



SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MCD
DRAWN - BKN
PLOT SCALE = 40.0000' / in.
CHECKED - OS
PLOT DATE = 10/4/2018
DATE - 8/28/2018
REVISED -

DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
REVISED -

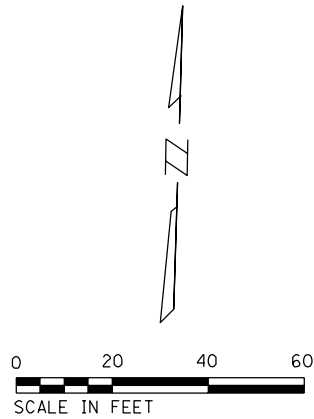
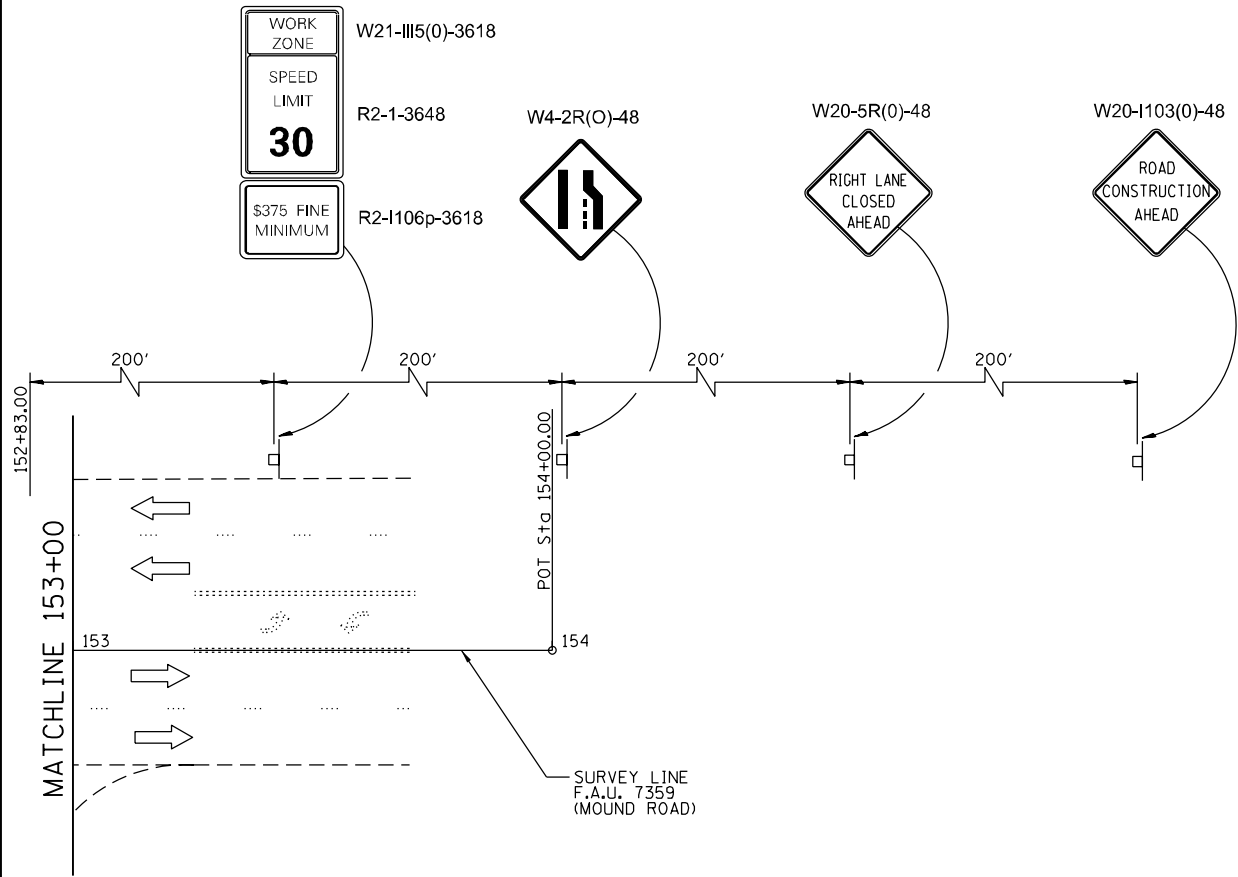
DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
MAINTENANCE OF TRAFFIC - STAGE 2**

SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. 147+00.00 TO STA. 153+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	24
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



1494 E. MOUND

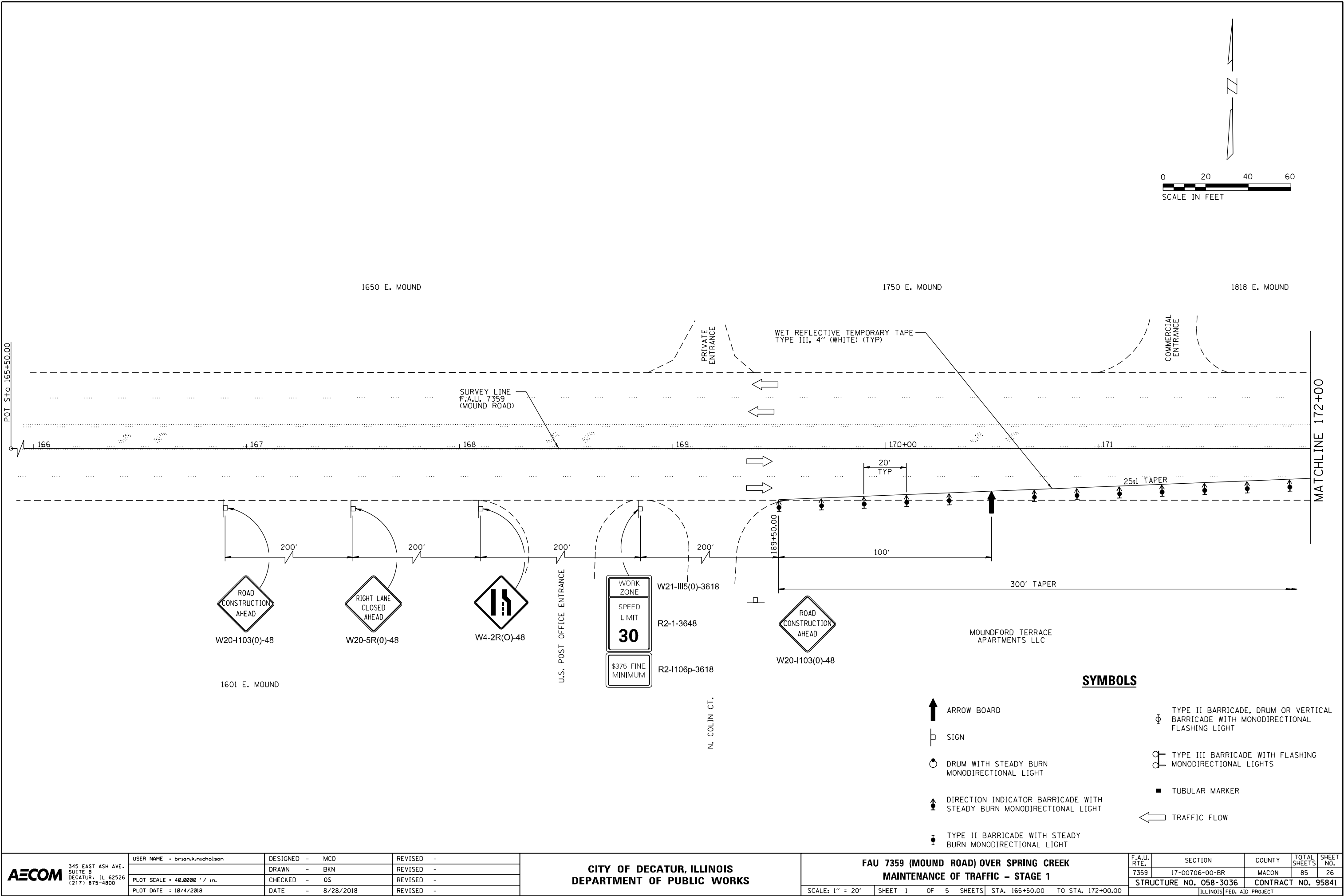
1301 E. MOUND

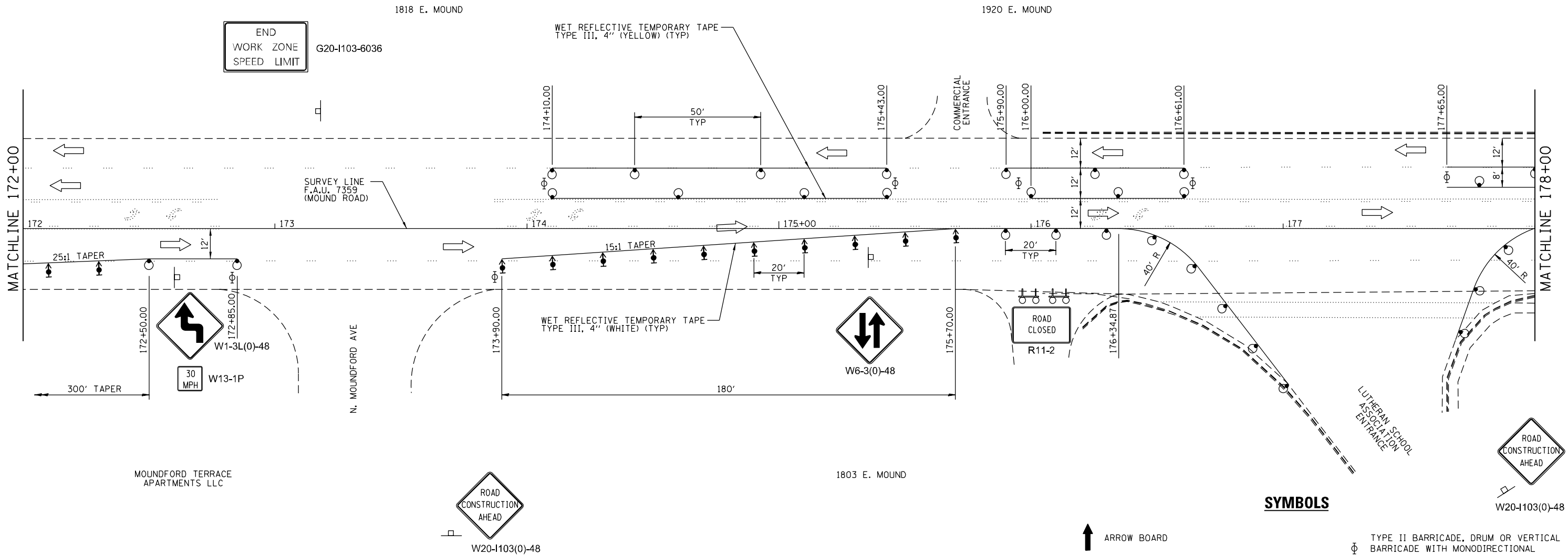
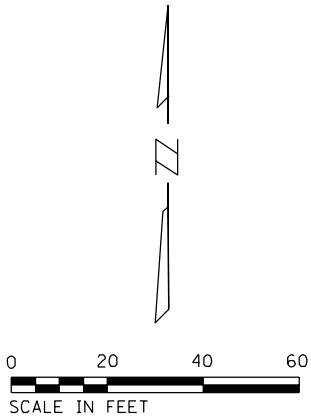
1353 E. MOUND

1411 E. MOUND

SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW





NOTE:
SIDEWALK CLOSED IN ACCORDANCE WITH IDOT STANDARD 701801, EXCEPT THAT
'SIDEWALK CLOSED - USE OTHER SIDE' SIGN SHALL NOT BE USED.

SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MCD
DRAWN - BKN
PLOT SCALE = 40.0000' / in.
CHECKED - OS
PLOT DATE = 10/4/2018
DATE - 8/28/2018

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CHECKED - OS
DATE - 8/28/2018

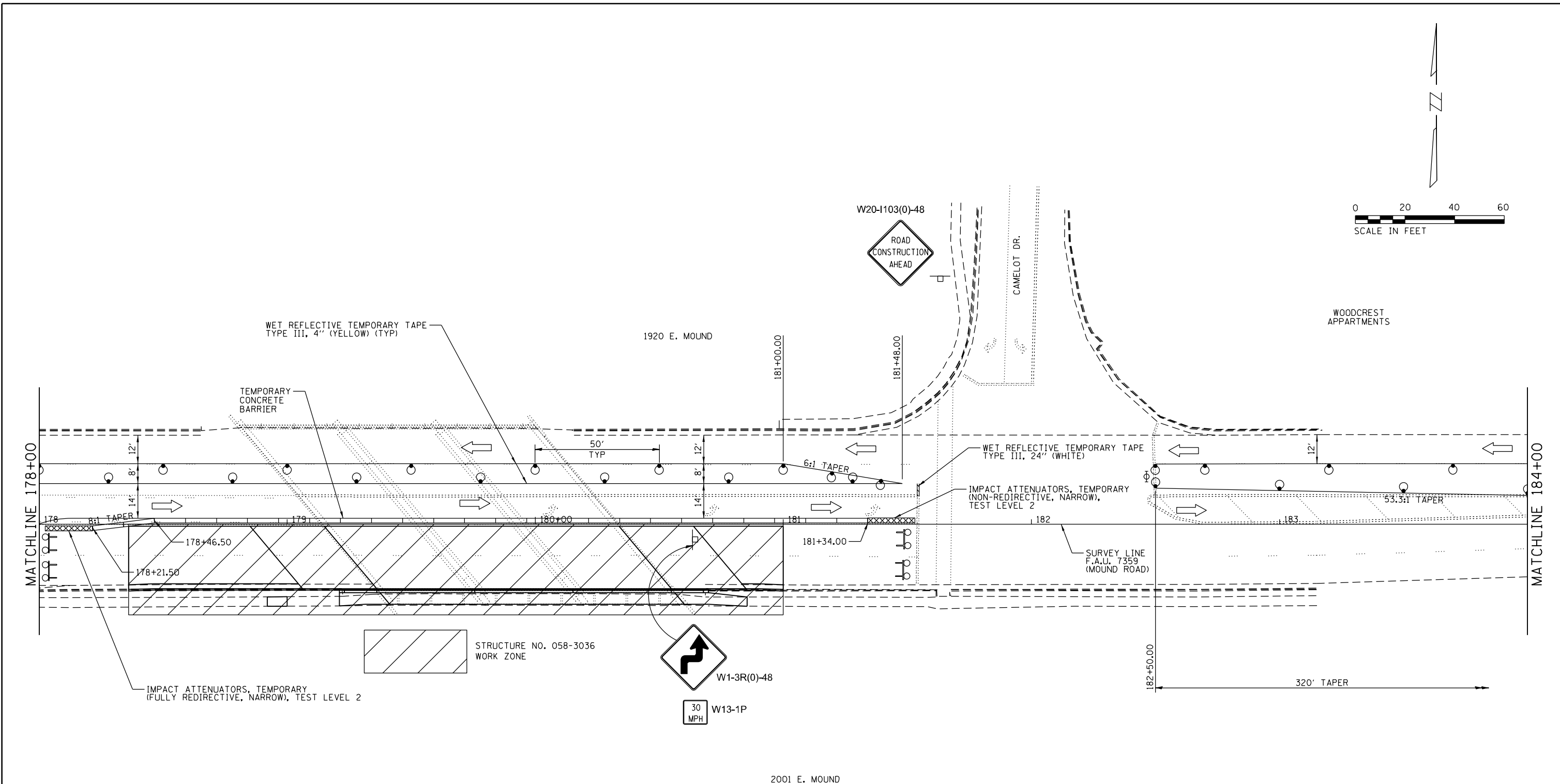
REVISED -
REVISED -
REVISED -
REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
MAINTENANCE OF TRAFFIC - STAGE 1

SCALE: 1" = 20' SHEET 2 OF 5 SHEETS STA. 172+00.00 TO STA. 178+00.00

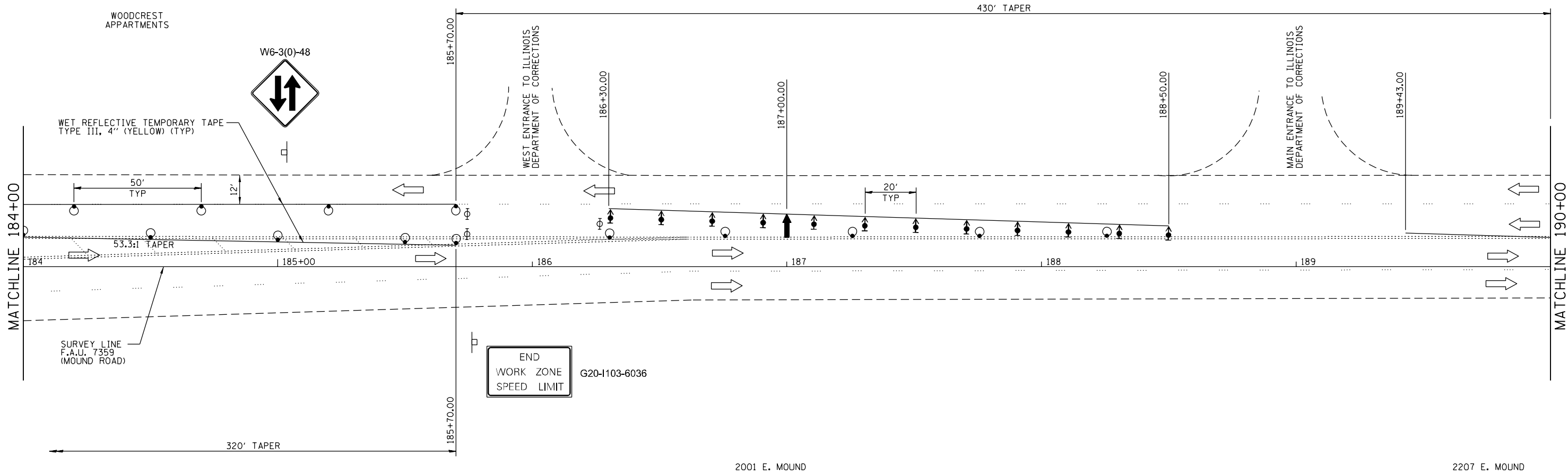
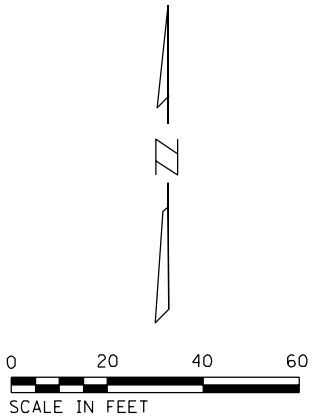
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	27
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



SYMBOLS

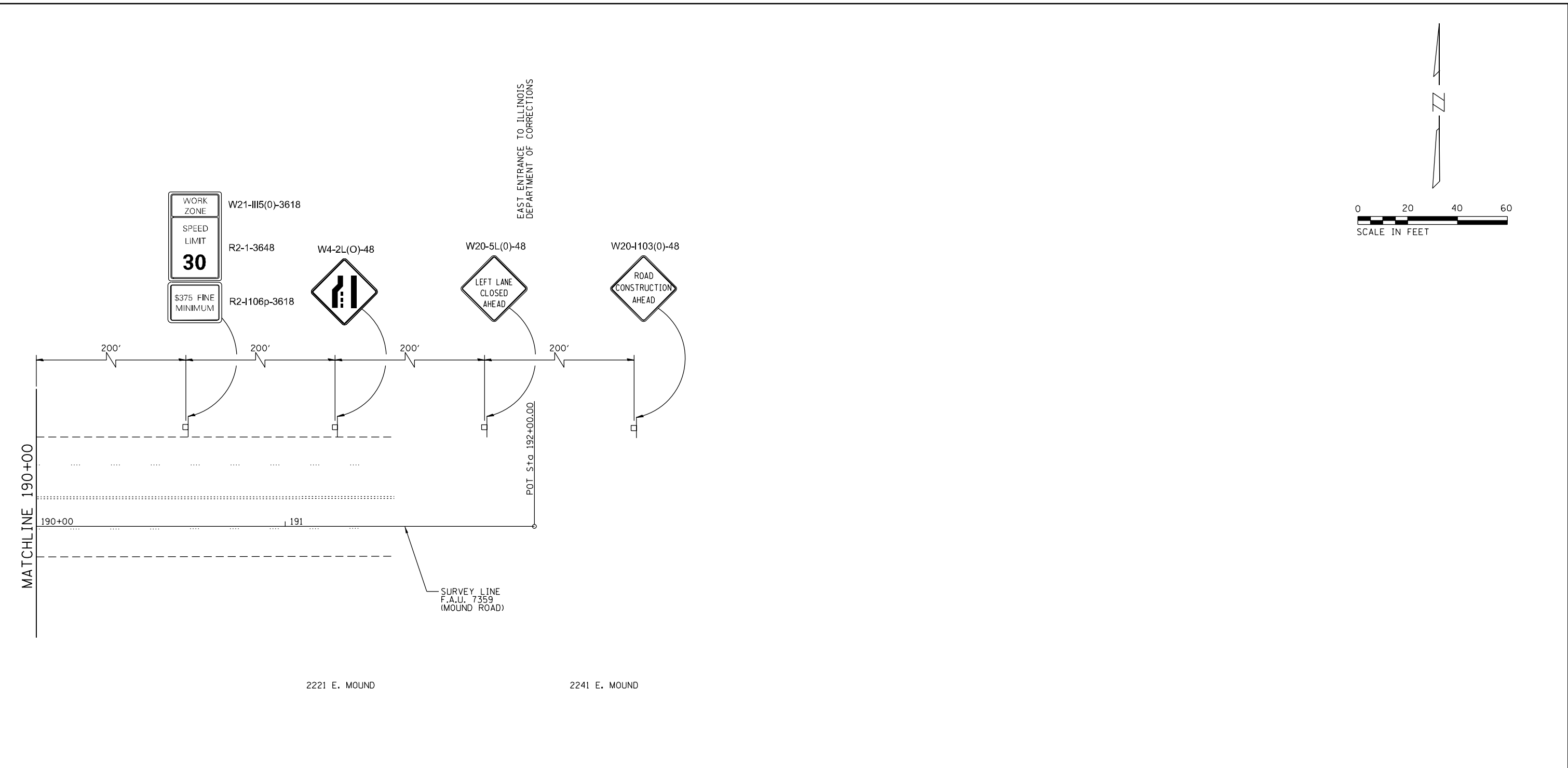
- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

NOTE:
SIDEWALK CLOSED IN ACCORDANCE WITH IDOT STANDARD 701801, EXCEPT THAT 'SIDEWALK CLOSED - USE OTHER SIDE' SIGN SHALL NOT BE USED.
SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR CAMELOT DRIVE INTERSECTION.












SYMBOLS

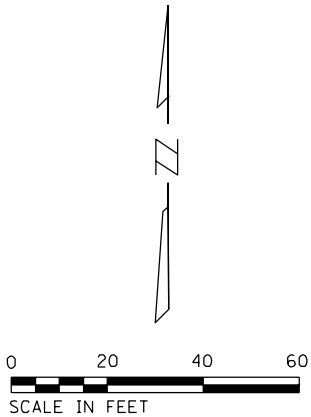
- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
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- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW



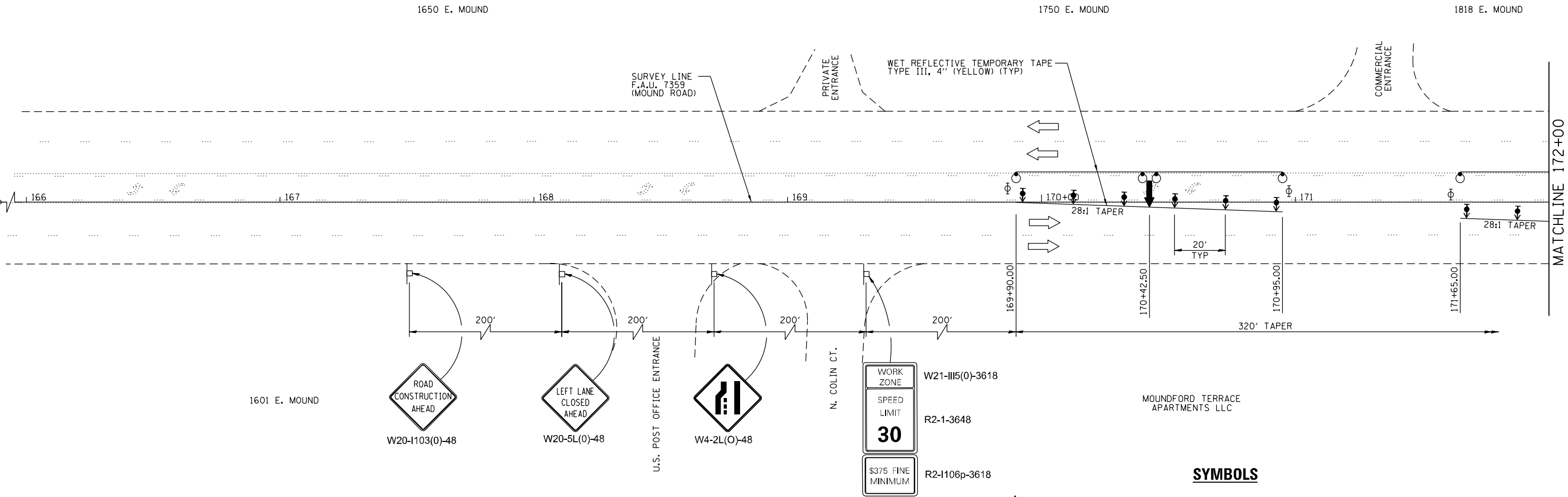
SYMBOLS

-  ARROW BOARD
-  SIGN
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
-  TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
-  TUBULAR MARKER
-  TRAFFIC FLOW

<div><div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div></div>	USER NAME = brian.k.nicholson	DESIGNED - MCD	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK MAINTENANCE OF TRAFFIC – STAGE 1	SCALE: 1" = 20'	SHEET 5 OF 5 SHEETS	STA. 190+00.00 TO STA. 192+00.00	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - BKN	REVISED -						7359	17-00706-00-BR	MACON	85	30
	PLOT DATE = 10/4/2018	CHECKED - OS	REVISED -						STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
		DATE - 8/28/2018	REVISED -						ILLINOIS FED. AID PROJECT				



POT STA 165+50.00



SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
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- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKERS
- TRAFFIC FLOW



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REVISED -

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CHECKED - OS
DATE - 8/28/2018
REVISED -

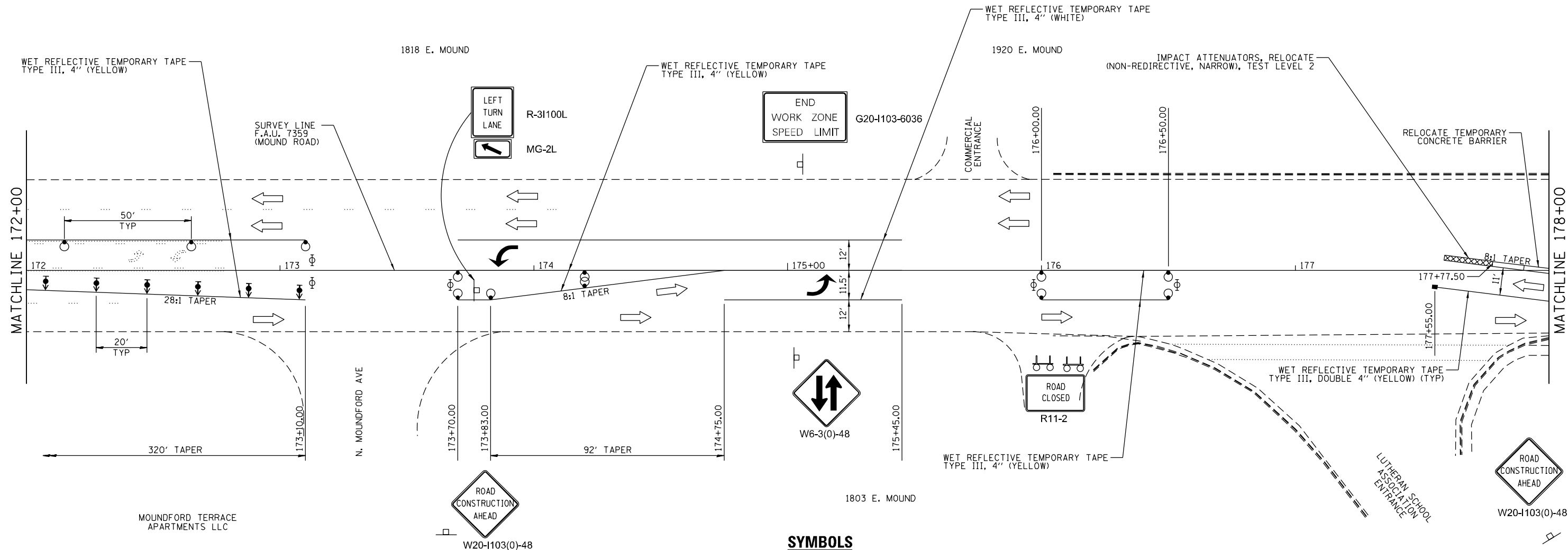
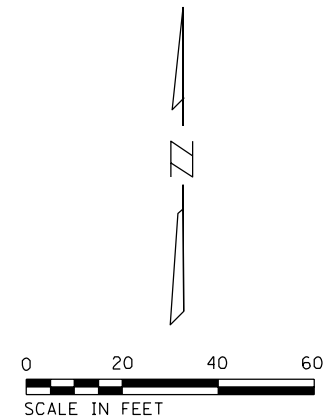
DESIGNED - MCD
DRAWN - BKN
CHECKED - OS
DATE - 8/28/2018
REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
MAINTENANCE OF TRAFFIC - STAGE 2

SCALE: 1" = 20' SHEET 1 OF 5 SHEETS STA. 165+50.00 TO STA. 172+00.00

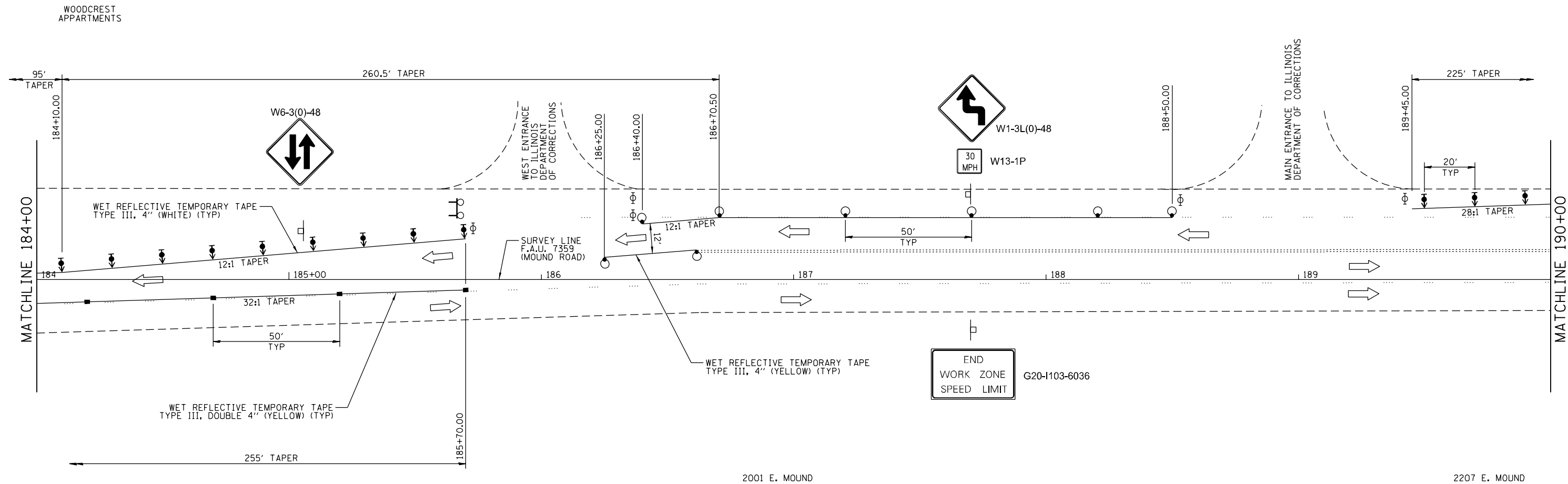
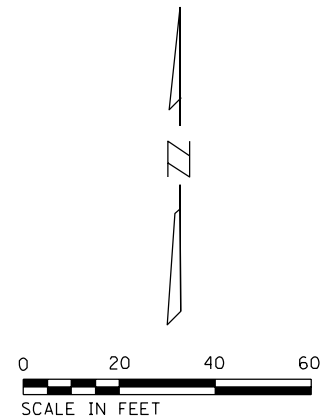
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	31
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



SYMBOLS

- ARROW BOARD
- SIGN
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- TUBULAR MARKER
- TRAFFIC FLOW

<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MCD	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS</div><div>DEPARTMENT OF PUBLIC WORKS</div></div>	<div><div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div><div>MAINTENANCE OF TRAFFIC – STAGE 2</div></div>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BKN	REVISED -	7359					17-00706-00-BR	MACON	85	32	
	PLOT SCALE = 40.0000' / in.	CHECKED - OS	REVISED -		SCALE: 1" = 20'			STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
	PLOT DATE = 10/4/2018	DATE - 8/28/2018	REVISED -		SHEET 2 OF 5 SHEETS			STA. 172+00.00 TO STA. 178+00.00				

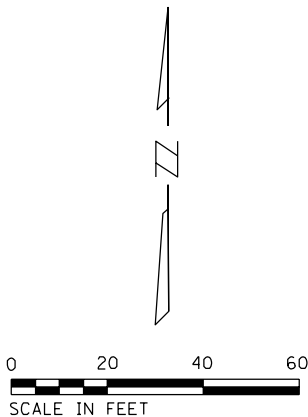
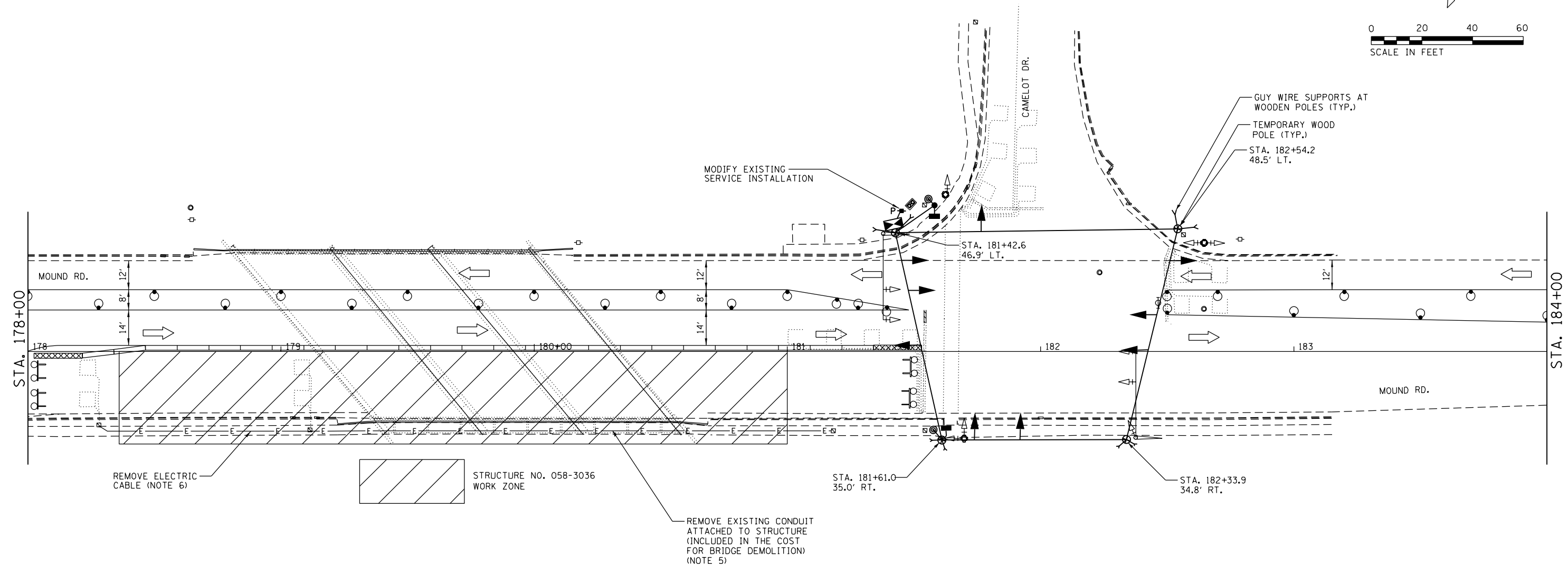


SYMBOLS

- | | | | |
|--|--|--|---|
| | ARROW BOARD | | TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT |
| | SIGN | | TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS |
| | DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT | | TUBULAR MARKER |
| | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | TRAFFIC FLOW |
| | TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | |

<div> 345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div>	USER NAME = brian.k.nicholson		DESIGNED - MCD	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK MAINTENANCE OF TRAFFIC - STAGE 2				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BKN		CHECKED - OS	REVISED -		SCALE: 1" = 20'				7359	17-00706-00-BR	MACON	85	34
	PLOT SCALE = 40.0000' / in.		DATE - 8/28/2018	REVISED -		SHEET 4 OF 5 SHEETS				STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
	PLOT DATE = 10/4/2018					STA. 184+00.00 TO STA. 190+00.00				ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL
WORK AREA SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC
SIGNAL INSTALLATION PAY ITEM AND NO EXTRA COMPENSATION SHALL
BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS,
SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL
DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED
SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN
ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250
RESPECTIVELY.



TEMPORARY TRAFFIC SIGNAL NOTES

- ALL CONTROL EQUIPMENT FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE CITY OF DECATUR APPROVED EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE, INSTALLED IN A NEMA TS2 CABINET.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

CONSTRUCTION NOTES:

- THE EXISTING TRAFFIC SIGNAL AND DETECTION SHALL BE DEACTIVATED, MAINTAINED, AND PROTECTED DURING CONSTRUCTION.
- ALL EXISTING TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE BAGGED DURING CONSTRUCTION.
- CITY OF DECATUR HAS INDICATED THAT VEHICLE DETECTION SHALL NOT BE PROVIDED AT THE TEMPORARY TRAFFIC SIGNAL DURING CONSTRUCTION.
- CITY OF DECATUR SHALL PROVIDE THE TEMPORARY TRAFFIC SIGNAL CONTROLLER TIMING AND SEQUENCE TO BE IMPLEMENTED BY THE CONTRACTOR.
- CLEAN-CUT AND CAP CONDUIT AT ABUTMENTS FOR FUTURE CONNECTION.
- DISCONNECT DETECTOR LOOP LEAD-IN CABLE FROM LOOP WIRE AND PULL BACK TO HANDHOLE AT STA. 181+10. COIL THE CABLE FOR FUTURE REINSTALLATION.

AECOM

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DRAWN - KO
PLOT SCALE = 40.0000' / in.
CHECKED - ML
PLOT DATE = 10/4/2018

DESIGNED - KO
DRAWN - KO
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DATE - 9/28/2018

REVISED -
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REVISED -

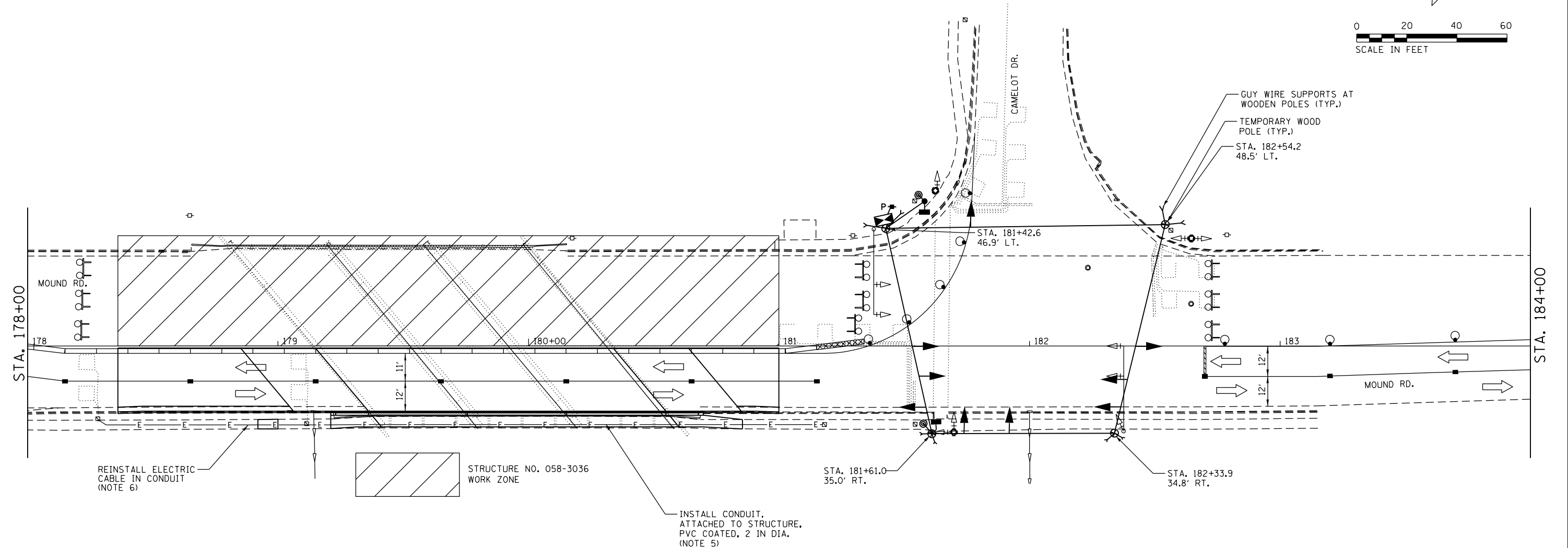
CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 1

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 178+00.00 TO STA. 184+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	36
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL
WORK AREA SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC
SIGNAL INSTALLATION PAY ITEM AND NO EXTRA COMPENSATION SHALL
BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS,
SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL
DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED
SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN
ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250
RESPECTIVELY.



CONSTRUCTION NOTES:

1. THE EXISTING TRAFFIC SIGNAL AND DETECTION SHALL BE DEACTIVATED, MAINTAINED, AND PROTECTED DURING CONSTRUCTION.
2. ALL EXISTING TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE BAGGED DURING CONSTRUCTION.
3. CITY OF DECATUR HAS INDICATED THAT VEHICLE DETECTION SHALL NOT BE PROVIDED AT THE TEMPORARY TRAFFIC SIGNAL DURING CONSTRUCTION.
4. CITY OF DECATUR SHALL PROVIDE THE TEMPORARY TRAFFIC SIGNAL CONTROLLER TIMING AND SEQUENCE TO BE IMPLEMENTED BY THE CONTRACTOR.
5. JOIN NEW ATTACHED CONDUIT TO EXISTING CONDUIT STUB USING PVC COATED, SEAL-TIGHT CONDUIT COUPLINGS.
6. UNCOIL CABLE IN HANDHOLE AT STA. 181+10 AND INSTALL IN EXISTING AND NEW CONDUIT TO HANDHOLE AT STA. 178+25. SPLICE DETECTOR LEAD-IN CABLE TO EXISTING DETECTOR LOOPS. DEMONSTRATE LOOP FUNCTIONALITY TO THE SATISFACTION OF THE ENGINEER.

TEMPORARY TRAFFIC SIGNAL NOTES

1. ALL CONTROL EQUIPMENT FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE CITY OF DECATUR APPROVED EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE, INSTALLED IN A NEMA TS2 CABINET.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

AECOM

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USER NAME = brian.k.nicholson
PLOT SCALE = 40.0000' / in.
PLOT DATE = 10/4/2018

DESIGNED - KO
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DATE - 9/28/2018

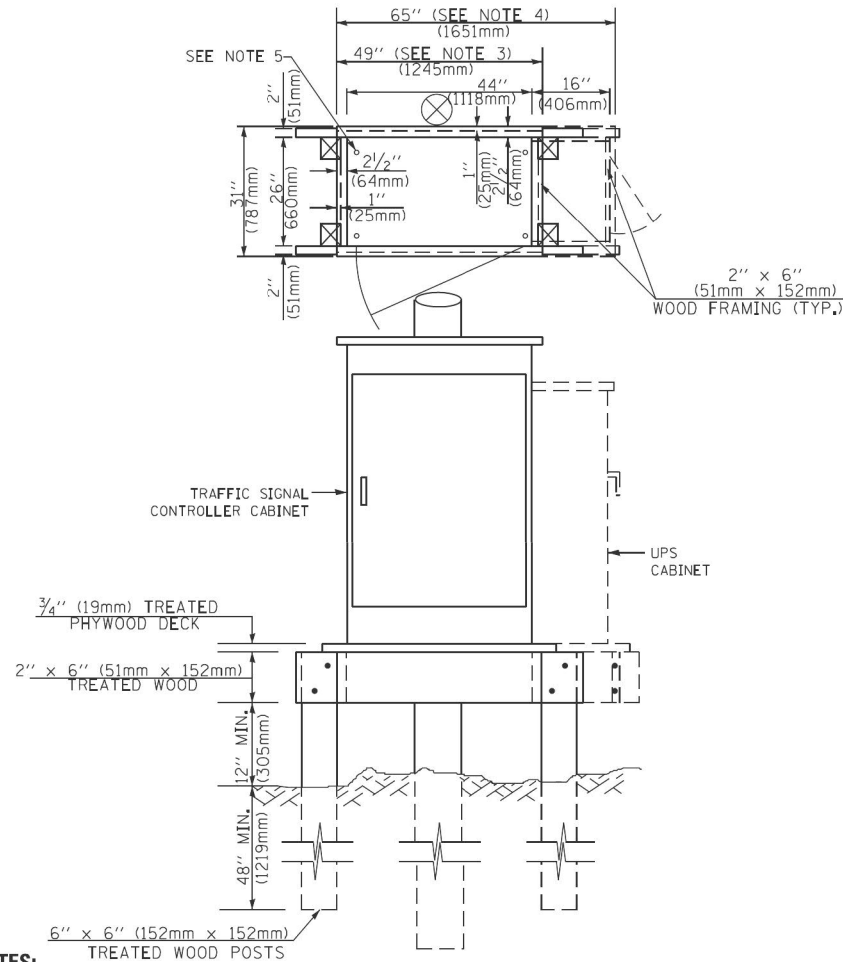
REVISED -
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REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE 2**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 178+00.00 TO STA. 184+00.00

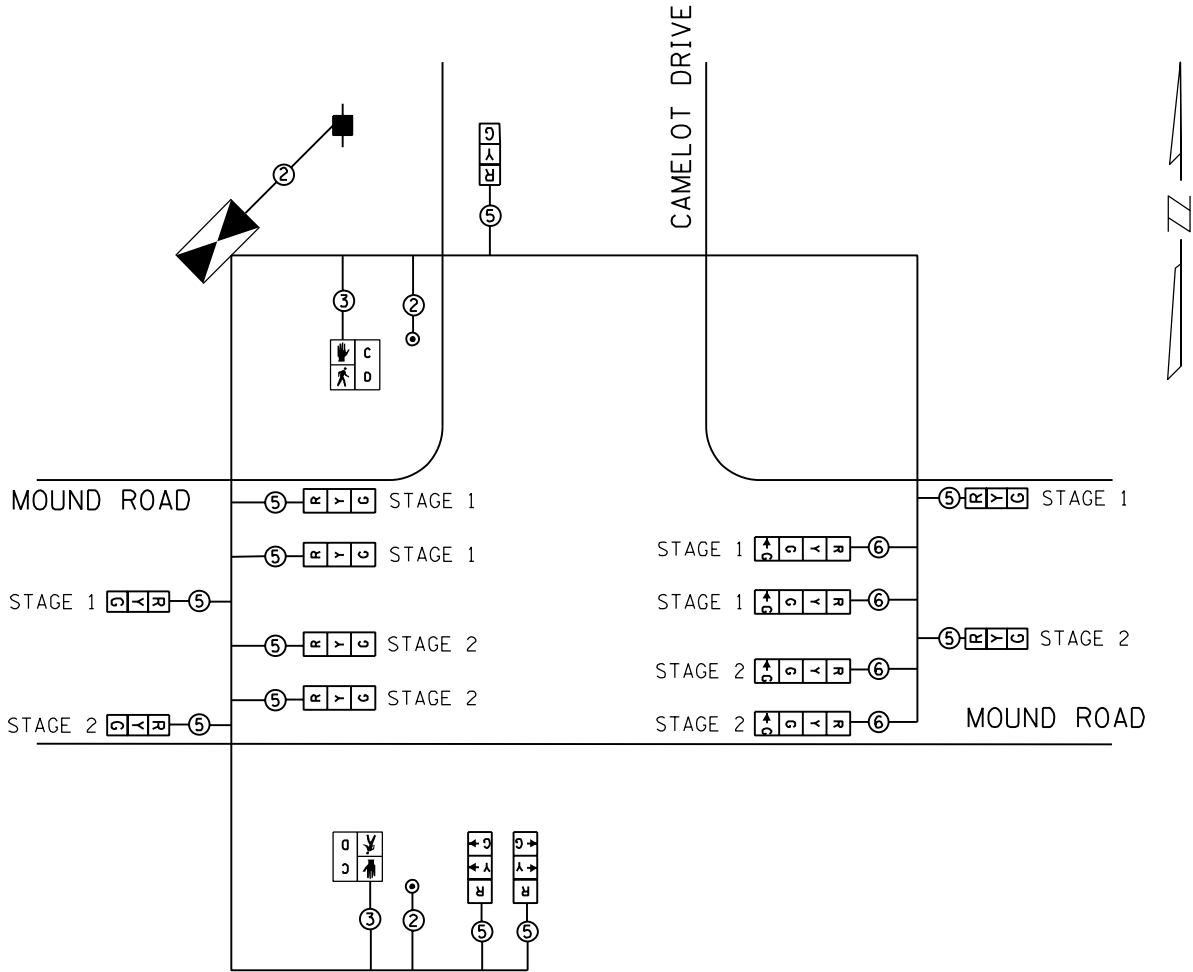
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	37
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**




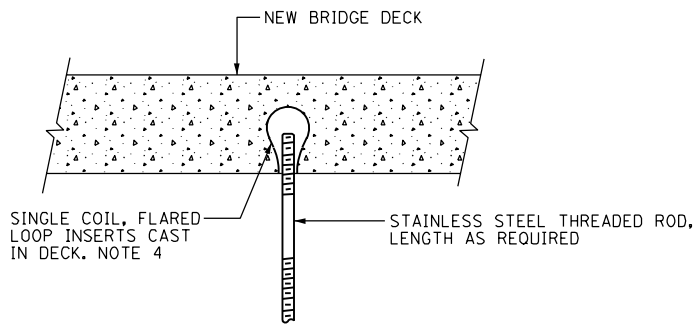
TEMPORARY CABLE PLAN

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS*	WATTAGE INCAND. LED	%OPERATION		
SIGNAL (RED)	9	17	0.50		76.5
(YELLOW)	9	25	0.25		56.3
(GREEN)	9	15	0.25		33.8
(ARROW)	2	12	0.25		6.0
PED. SIGNAL	2	25	1.00		50.0
CONTROLLER	1	100	1.00		100.0
ENERGY COSTS TO: CITY OF DECATUR					322.6
ENERGY SUPPLY CONTACT: SHAWN SPILLMAN, SUPERVISOR PHONE: 888-659-4540 COMPANY: AMEREN ILLINOIS					

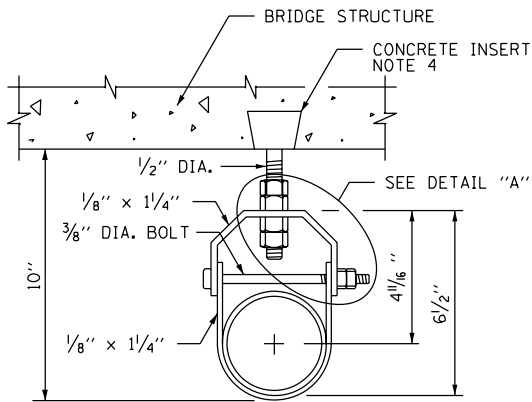
CONSTRUCTION NOTES:

1. THE EXISTING TRAFFIC SIGNAL AND DETECTION SHALL BE DEACTIVATED, MAINTAINED, AND PROTECTED DURING CONSTRUCTION.
2. ALL EXISTING TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE BAGGED DURING CONSTRUCTION.
3. CITY OF DECATUR HAS INDICATED THAT VEHICLE DETECTION SHALL NOT BE PROVIDED AT THE TEMPORARY TRAFFIC SIGNAL DURING CONSTRUCTION.
4. CITY OF DECATUR SHALL PROVIDE THE TEMPORARY TRAFFIC SIGNAL CONTROLLER TIMING AND SEQUENCE TO BE IMPLEMENTED BY THE CONTRACTOR.
5. SHIFT SIGNAL HEAD LOCATIONS FOR EACH STAGE AS SHOWN.

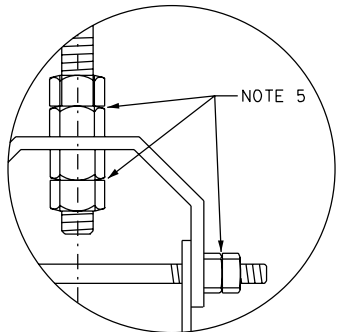
<div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - KO	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS</div></div>	FAU 7359 (MOUND ROAD) OVER SPRING CREEK TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 1				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN - KO	REVISED -		7359	17-00706-00-BR	MACON	85	38				
	PLOT DATE = 10/4/2018	CHECKED - ML	REVISED -		STRUCTURE NO. 058-3036		CONTRACT NO. 95841						
		DATE - 10/XX/2018	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS	STA. 178+00.00 TO STA. 184+00.00						



NEW BRIDGE DECK THREADED ROD
INSTALLATION ANCHOR DETAILS
SCALE: NOT TO SCALE



CONDUIT HANGER DETAIL



DETAIL "A"

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUIT TO THE STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIAL MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
2. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
3. ALL MOUNTING HARDWARE FOR CONDUIT SUPPORTS AND PVC COATED CONDUIT MUST BE PVC COATED.
4. SPACE THE INSERTS AT 10 FOOT (MAXIMUM) CENTERS.
5. PROVIDE STAINLESS STEEL DOUBLE NUTS, JAM NUTS OR LOCK NUTS FOR THIS INSTALLATION.

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - KO
DRAWN - KO
PLOT SCALE = 40.0000' / in.
CHECKED - ML
PLOT DATE = 10/4/2018
DATE - 9/28/2018
REVISED -

DESIGNED - KO
DRAWN - KO
CHECKED - ML
DATE - 9/28/2018
REVISED -

DESIGNED - KO
DRAWN - KO
CHECKED - ML
DATE - 9/28/2018
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TEMPORARY TRAFFIC SIGNAL ATTACHED CONDUIT DETAILS**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 178+00.00 TO STA. 184+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	39
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURE (SN 058-3035):

Built as FAS 1546, Section 44B in 1964, rebuilt and widened as FAU Route 7359, Section 83-00103-00-BR in 1988 using three spans, 17" precast, prestressed concrete deck beams, 92'-5" end to end of deck, 61'-2" out to out of deck on solid reinforced concrete piers on spread footings and pile bent spill-thru abutments. Beams No. 1 thru 19 in all three spans to be removed and replaced with a PPC deck beam superstructure with concrete wearing surface.

Traffic to be maintained utilizing stage construction. Closed for pedestrians and bicycles during Stage 1.

Salvage: Parapet and Bicycle Railing

BENCHMARK:

Control Pt. #2, Iron Pin (Flush)
Sta. 141+73.57, 69.51' Lt.
Elev. = 644.66

SPRING CREEK
SUPERSTRUCTURE RE-BUILT 2019 BY
CITY OF DECATUR
SEC. 17-00706-00-BR
F.A.U. 7359 STA. 142+34.64
STR. NO. 058-3035 LOADING HL-93

NAME PLATE

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

LOADING HL-93

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

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design
Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION-LRFD)

$f'_c = 3,500$ p.s.i.
 $f'_c = 4,000$ p.s.i. (Bridge Approach Slab & CWS)
 $f_y = 60,000$ p.s.i. (reinforcement)

FIELD UNITS (EXIST. CONSTRUCTION-ASD)

$f'_c = 1,400$ p.s.i. (substructure)
 $f_s = 20,000$ p.s.i. (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ p.s.i.
 $f'_{ci} = 5,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " ϕ low-relaxation strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " ϕ low-relaxation strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.151g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.272g
Soil Site Class = D

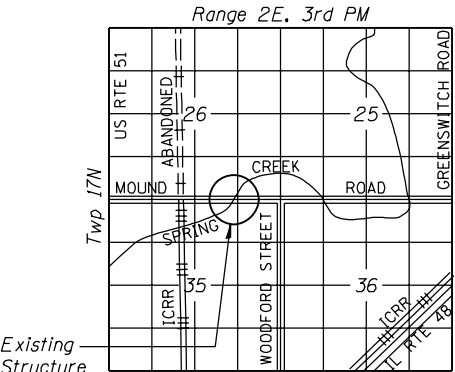
WATERWAY INFORMATION

Drainage Area = 22.4 Sq. Mi.			Existing Low Grade Elev. 650.19 @ Sta. 142+50.00						
			Proposed Low Grade Elev. 650.21 @ Sta. 143+20.00						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1,900	396	396	644.17	0.70	0.70	644.87	644.87
Design	30	2,568	443	443	644.75	1.03	1.03	645.78	645.78
Base	100	3,360	498	498	645.34	1.45	1.45	646.79	646.79
Max. Calc.	500	4,450	572	572	646.04	2.03	2.03	648.07	648.07

30 year velocity through existing bridge = 6.28 fps
30 year velocity through proposed bridge = 6.28 fps

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	645.36	629.92	629.85	645.10	5
Design	645.36	629.92	629.85	645.10	
Check	645.36	629.92	629.85	645.10	



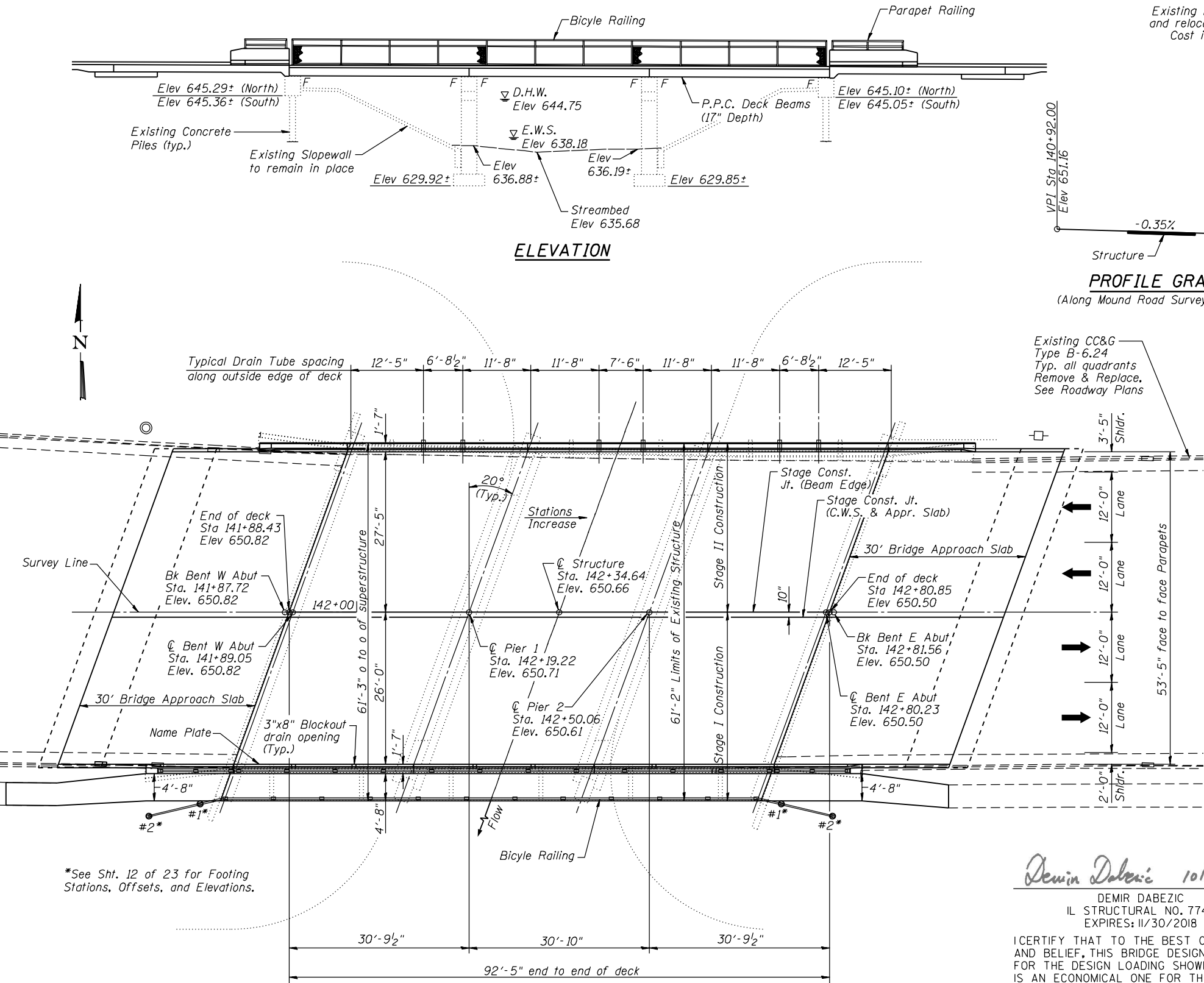
LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MOUND ROAD OVER SPRING CREEK
FAU 7359 - SECTION 17-00706-00-BR

MACON COUNTY

STATION 142+34.64

STRUCTURE NO. 058-3035

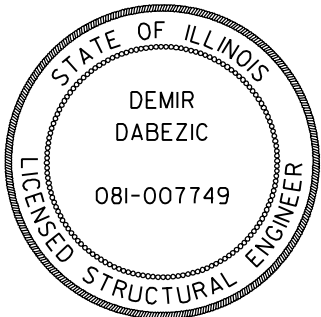


PLAN

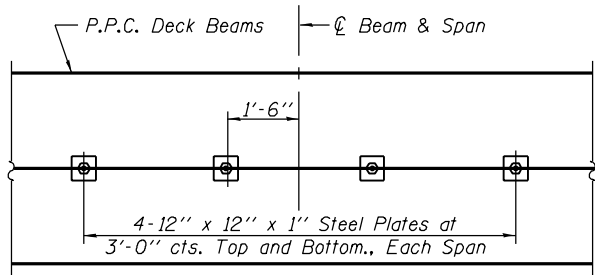
Demir Dabezic 10/04/2018.

DEMIR DABEZIC
IL STRUCTURAL NO. 7749
EXPIRES: 11/30/2018

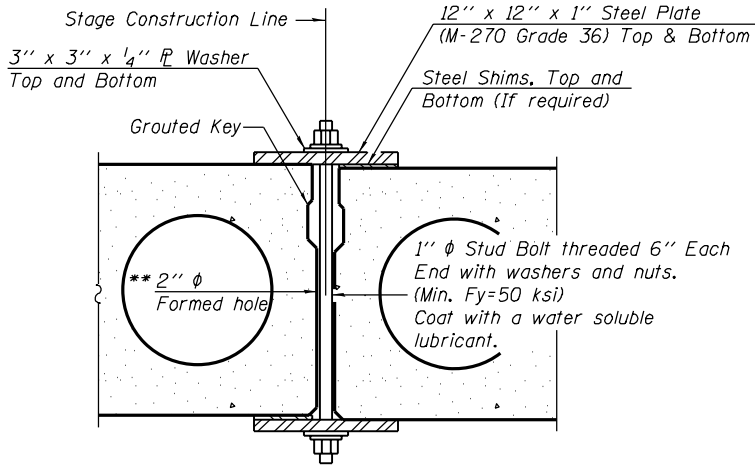
I CERTIFY THAT TO THE BEST OF KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.



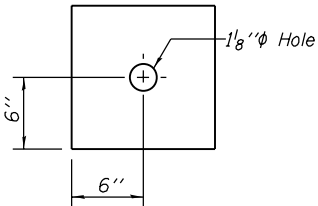
<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson		DESIGNED - MJP	REVISED -	<div><div>CITY OF DECATUR, ILLINOIS</div><div>DEPARTMENT OF PUBLIC WORKS</div></div>	<div><div>FAU 7359 (MOUND ROAD) OVER SPRING CREEK</div><div>GENERAL PLAN AND ELEVATION</div></div>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - BKN		CHECKED - DD	REVISED -		7359	17-00706-00-BR	MACON	85	40				
	PLOT SCALE = 20:0 Fts / in.		DATE - 8/16/2018	REVISED -		SCALE:		SHEET 1 OF 23 SHEETS	STA.	TO STA.	STRUCTURE NO. 058-3035		CONTRACT NO. 95841	
	PLOT DATE = 10/4/2018										ILLINOIS FED. AID PROJECT			



PLAN



SECTION



CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

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

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

GENERAL NOTES:

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.

Reinforcement bars designated (E) shall be epoxy coated.

All Construction joints shall be bonded.

Slipforming of parapets is not allowed.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Structural Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier For Stage Construction
- 5 Top of West Approach Slab Elevations
- 6 Top of East Approach Slab Elevations
- 7 Superstructure Details 1
- 8 Superstructure Details 2
- 9 Superstructure Details 3
- 10 Bridge Approach Slab Details
- 11 Bridge Approach Slab Details
- 12 Bicycle Railing
- 13 17"x36" PPC Deck Beam
- 14 17"x36" PPC Deck Beam Details
- 15 17"x48" PPC Deck Beam
- 16 17"x48" PPC Deck Beam Details
- 17 West Abutment Concrete Removal
- 18 West Abutment Repairs
- 19 East Abutment Concrete Removal
- 20 East Abutment Repairs
- 21 Pier 1 Repairs
- 22 Pier 2 Repairs
- 23 Bar Splicer Assembly and Mechanical Splicer Details

TOTAL BILL OF MATERIAL - 058-3035

Pay Item	Unit	Total
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu. Yd.	2.3
Concrete Structures	Cu. Yd.	38.1
Concrete Superstructure	Cu. Yd.	28.8
Bridge Deck Grooving	Sq. Yd.	871
Protective Coat	Sq. Yd.	1,112
Concrete Superstructure (Approach Slab)	Cu. Yd.	159.5
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	5,535
Reinforcement Bars, Epoxy Coated	Pound	78,320
Bar Splicers	Each	387
Parapet Railing	Foot	118
Name Plates	Each	1
Epoxy Crack Injection	Foot	370
Asbestos Bearing Pad Removal	Each	26
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	328
Concrete Wearing Surface (Variable Depth)	Sq. Yd.	629
Bicycle Railing, Special	Foot	118

AECOM

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SUITE B
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(217) 875-4800

USER NAME = brian.k.nicholson
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PLOT DATE = 10/8/2018

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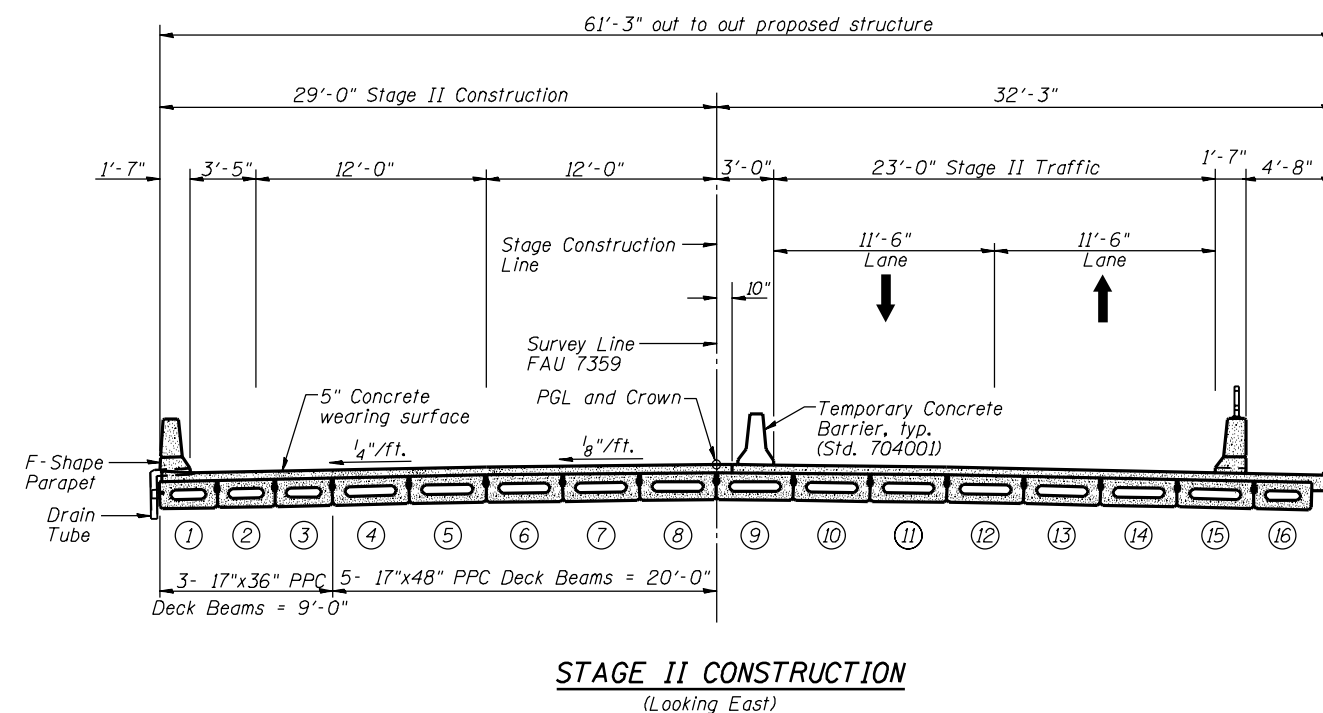
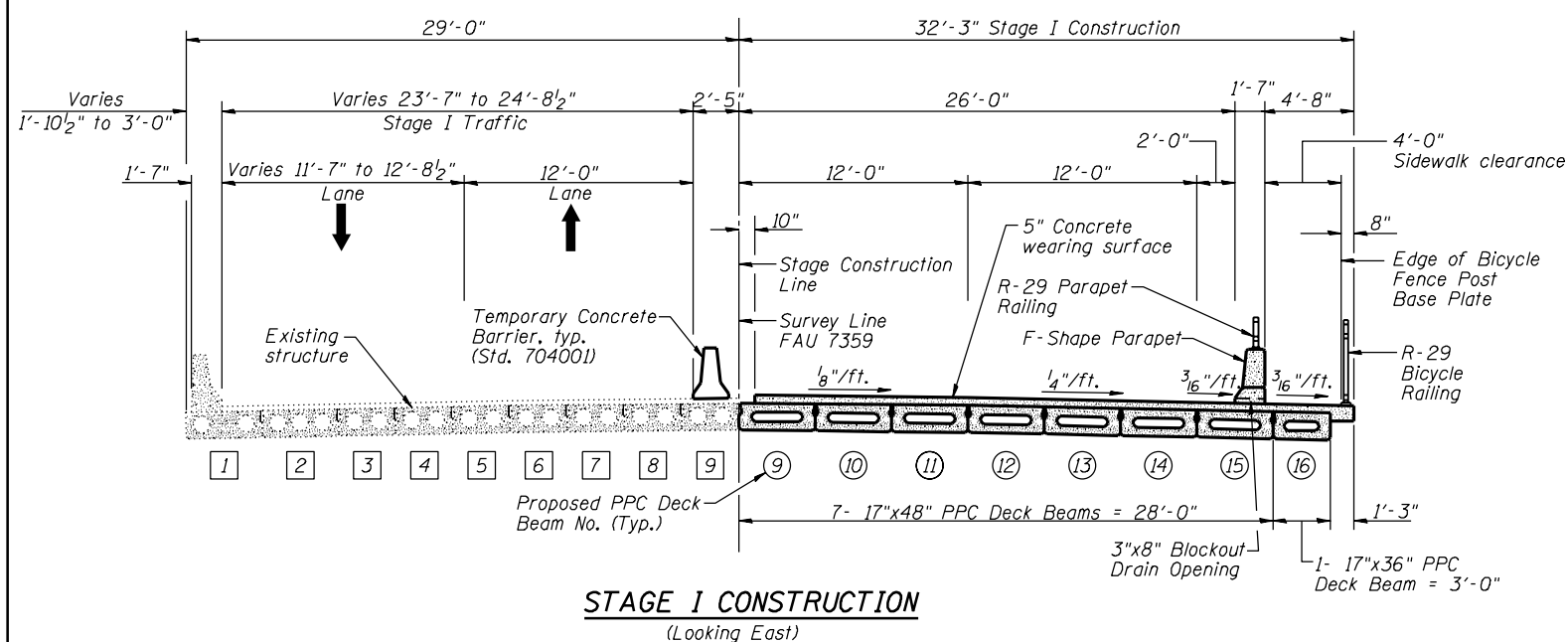
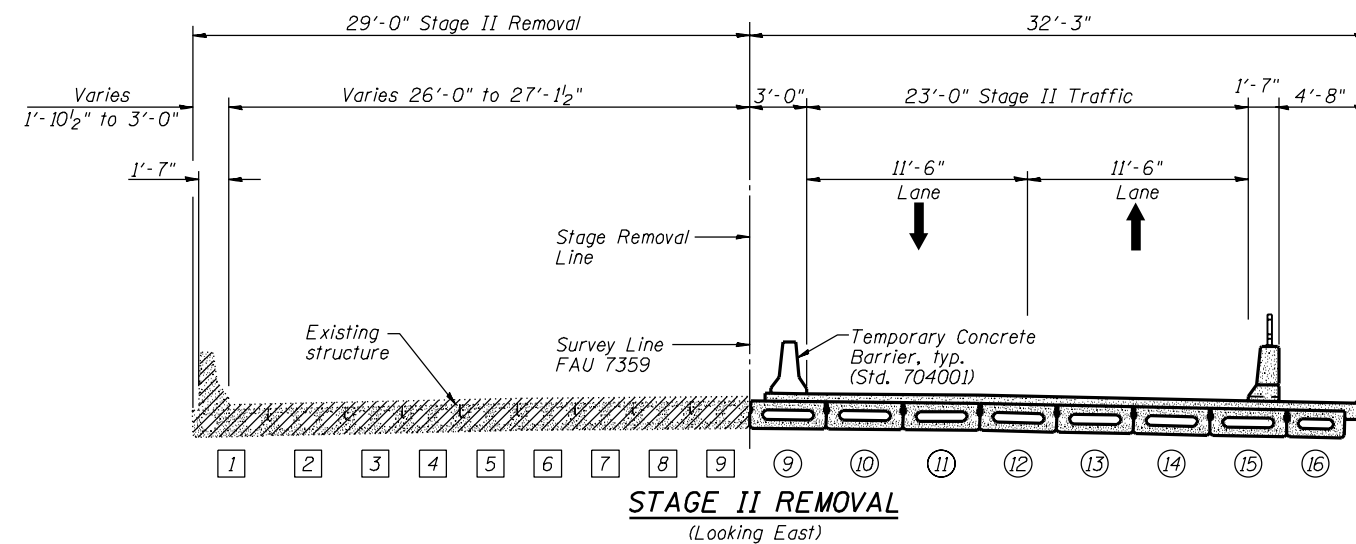
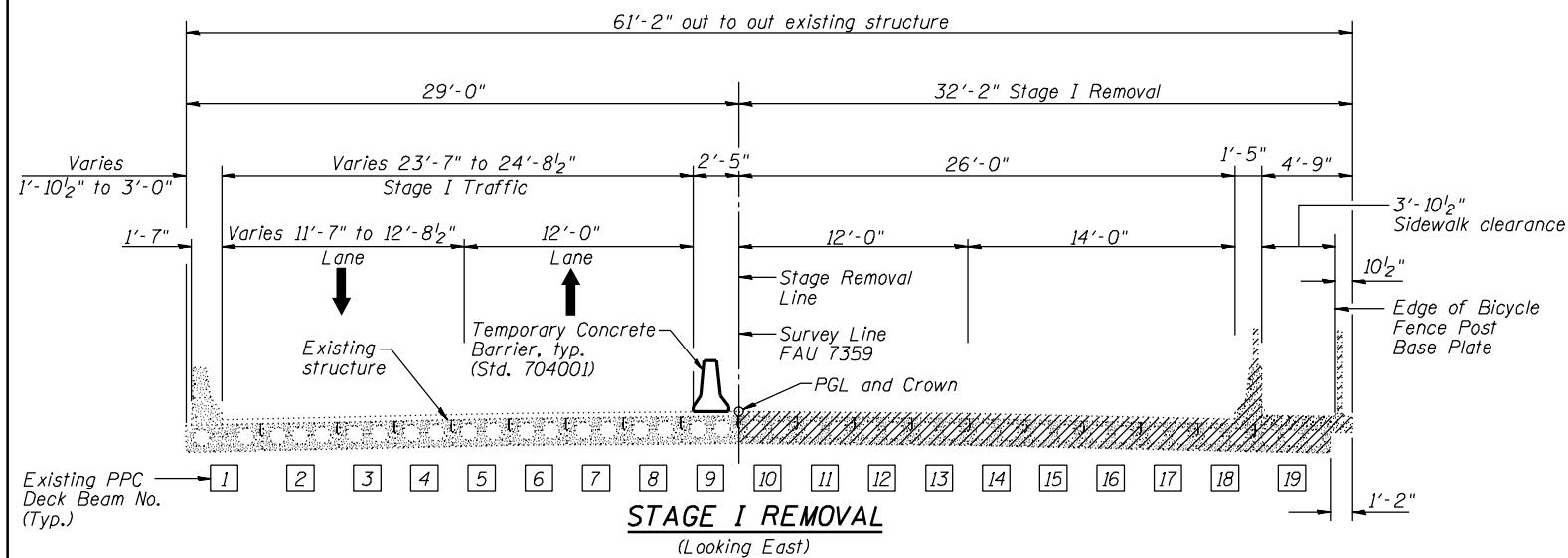
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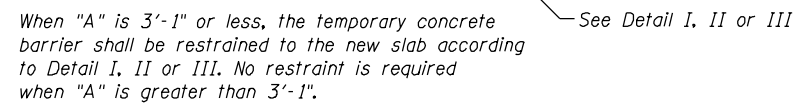
**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
GENERAL STRUCTURAL DATA**

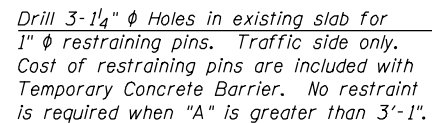
SCALE: SHEET 2 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	41
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

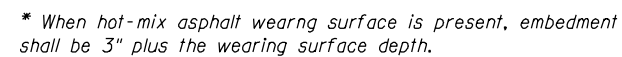




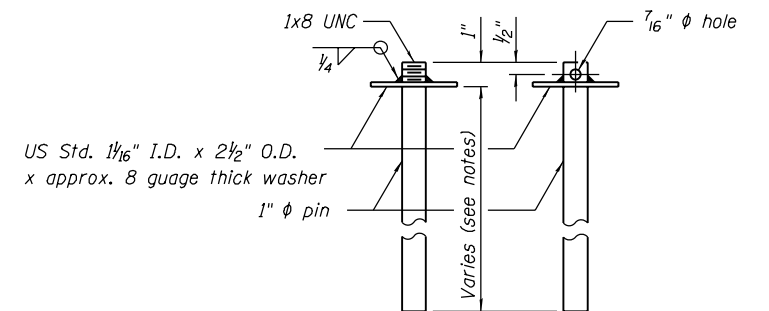
NEW SLAB OR NEW DECK BEAM



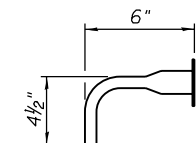
EXISTING SLAB



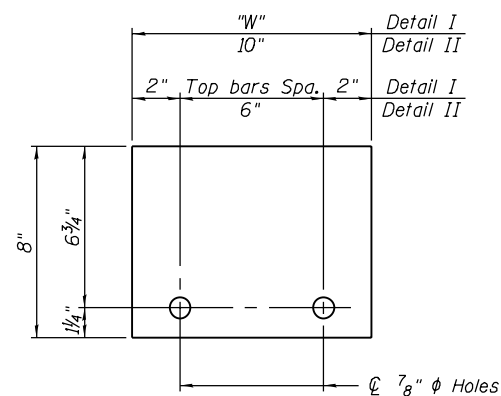
EXISTING DECK BEAM



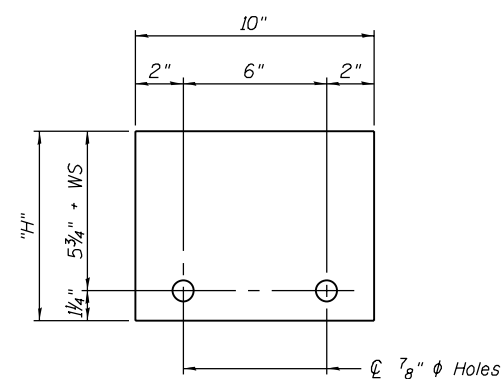
RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate $\frac{1}{4}$ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

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

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

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+68.41	-27.42	650.45
A	141+78.41	-27.42	650.41
B	141+88.41	-27.42	650.38
E. End of W. Appr.	141+98.41	-27.42	650.34

NORTH EDGE OF SOUTH WESTBOUND LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+62.80	-12.00	650.79
A	141+72.80	-12.00	650.75
B	141+82.80	-12.00	650.72
E. End of W. Appr.	141+92.80	-12.00	650.68

PGL & CROWN

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+58.43	0.00	650.93
A	141+68.43	0.00	650.89
B	141+78.43	0.00	650.86
E. End of W. Appr.	141+88.43	0.00	650.82

STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+58.13	0.83	650.92
A	141+68.13	0.83	650.88
B	141+78.13	0.83	650.85
E. End of W. Appr.	141+88.13	0.83	650.81

SOUTH EDGE OF NORTH EASTBOUND LANE

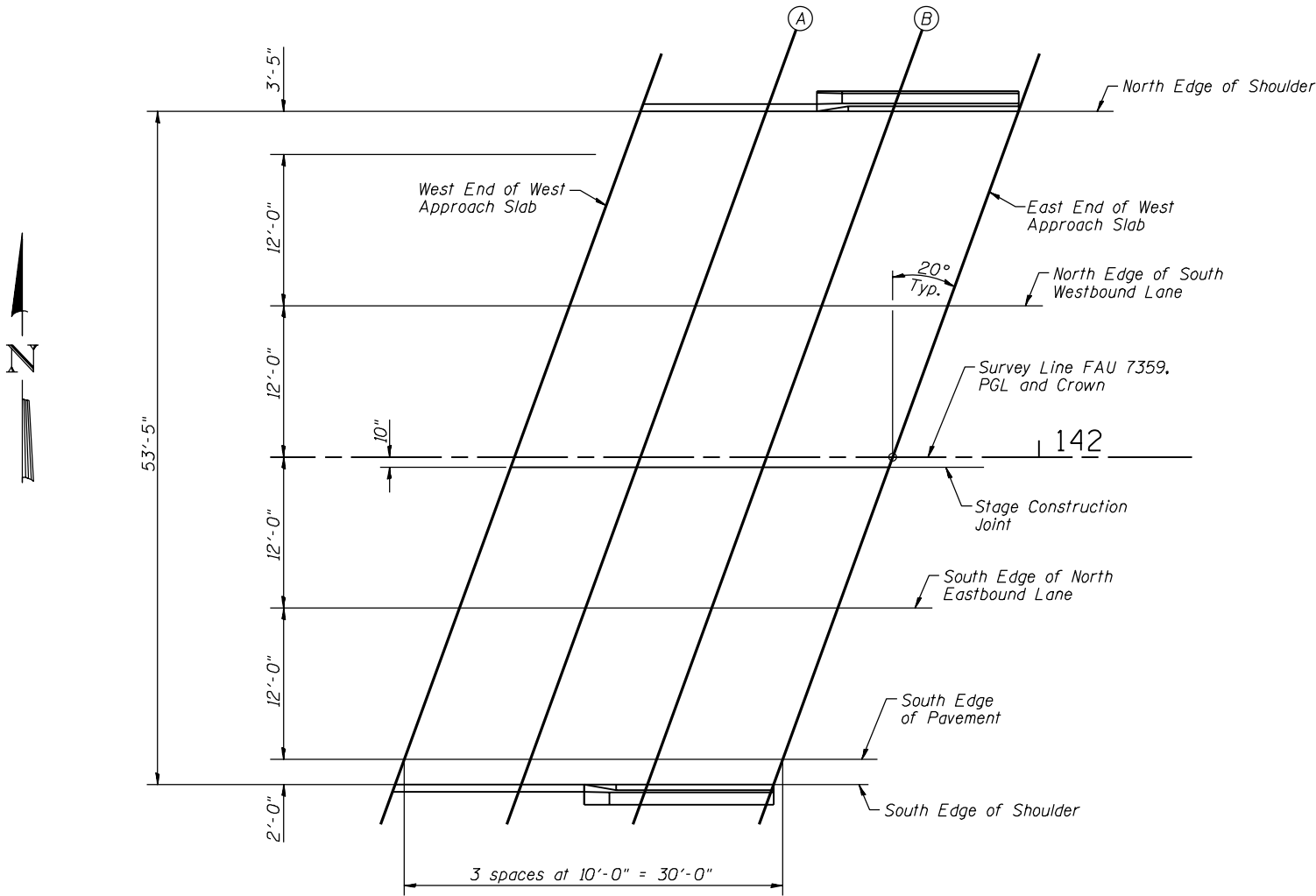
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+54.06	12.00	650.82
A	141+64.06	12.00	650.78
B	141+74.06	12.00	650.75
E. End of W. Appr.	141+84.06	12.00	650.71

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+49.69	24.00	650.58
A	141+59.69	24.00	650.55
B	141+69.69	24.00	650.51
E. End of W. Appr.	141+79.69	24.00	650.48

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	141+48.97	26.00	650.55
A	141+58.97	26.00	650.52
B	141+68.97	26.00	650.48
E. End of W. Appr.	141+78.97	26.00	650.45



PLAN

AECOM

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CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TOP OF WEST APPROACH SLAB ELEVATIONS

SCALE: SHEET 5 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	44
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+90.83	-27.42	650.02
A	143+00.83	-27.42	649.98
B	143+10.83	-27.42	649.95
E. End of E. Appr.	143+20.83	-27.42	649.91

NORTH EDGE OF SOUTH WESTBOUND LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+85.22	-12.00	650.36
A	142+95.22	-12.00	650.32
B	143+05.22	-12.00	650.29
E. End of E. Appr.	143+15.22	-12.00	650.25

PGL & CROWN

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+80.85	0.00	650.50
A	142+90.85	0.00	650.46
B	143+00.85	0.00	650.43
E. End of E. Appr.	143+10.85	0.00	650.39

STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+80.55	0.83	650.49
A	142+90.55	0.83	650.46
B	143+00.55	0.83	650.42
E. End of E. Appr.	143+10.55	0.83	650.39

SOUTH EDGE OF NORTH EASTBOUND LANE

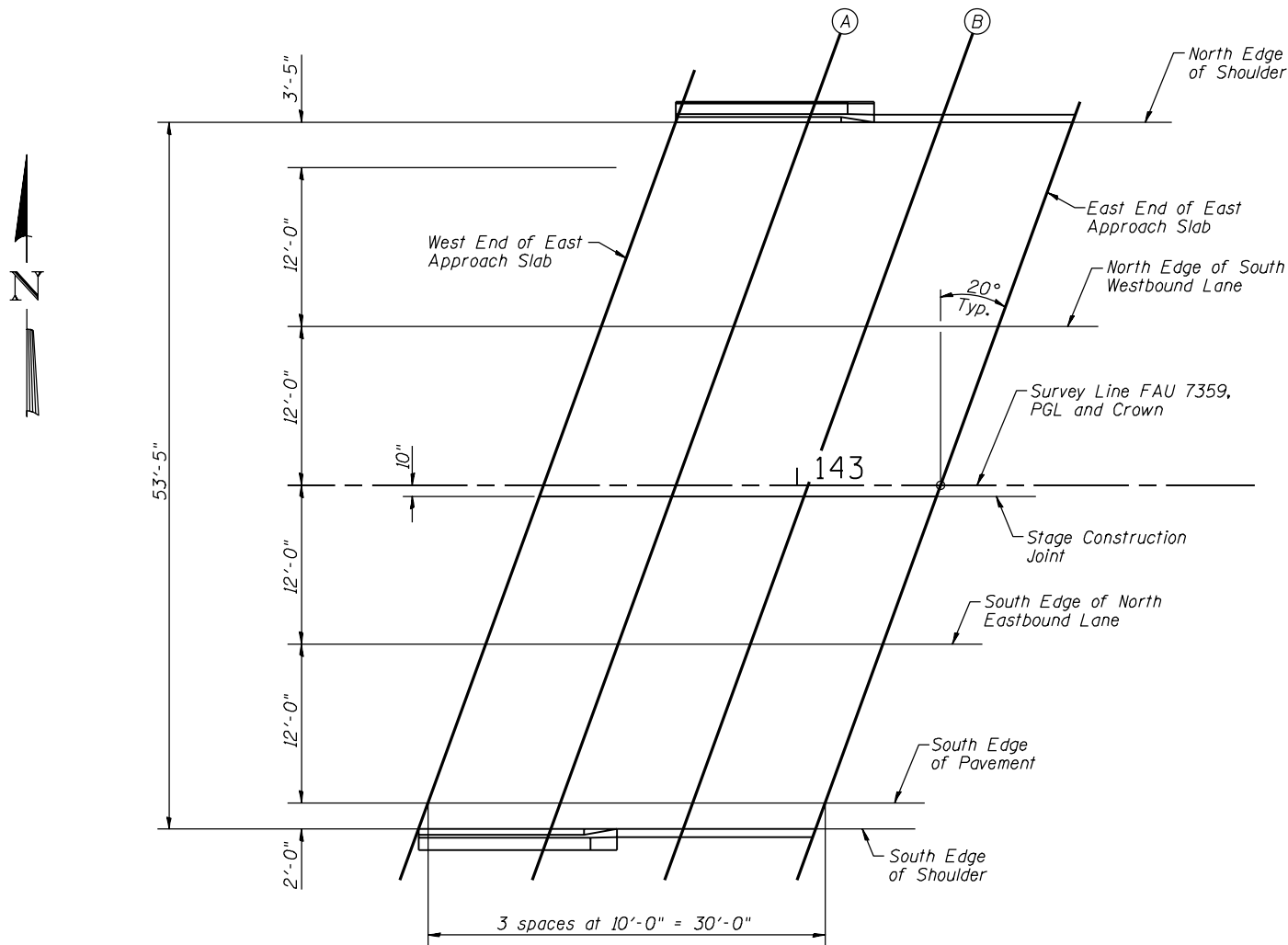
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+76.48	12.00	650.39
A	142+86.48	12.00	650.35
B	142+96.48	12.00	650.32
E. End of E. Appr.	143+06.48	12.00	650.28

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+72.12	24.00	650.15
A	142+82.12	24.00	650.12
B	142+92.12	24.00	650.08
E. End of E. Appr.	143+02.12	24.00	650.05

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	142+71.39	26.00	650.12
A	142+81.39	26.00	650.09
B	142+91.39	26.00	650.05
E. End of E. Appr.	143+01.39	26.00	650.02



PLAN

AECOM

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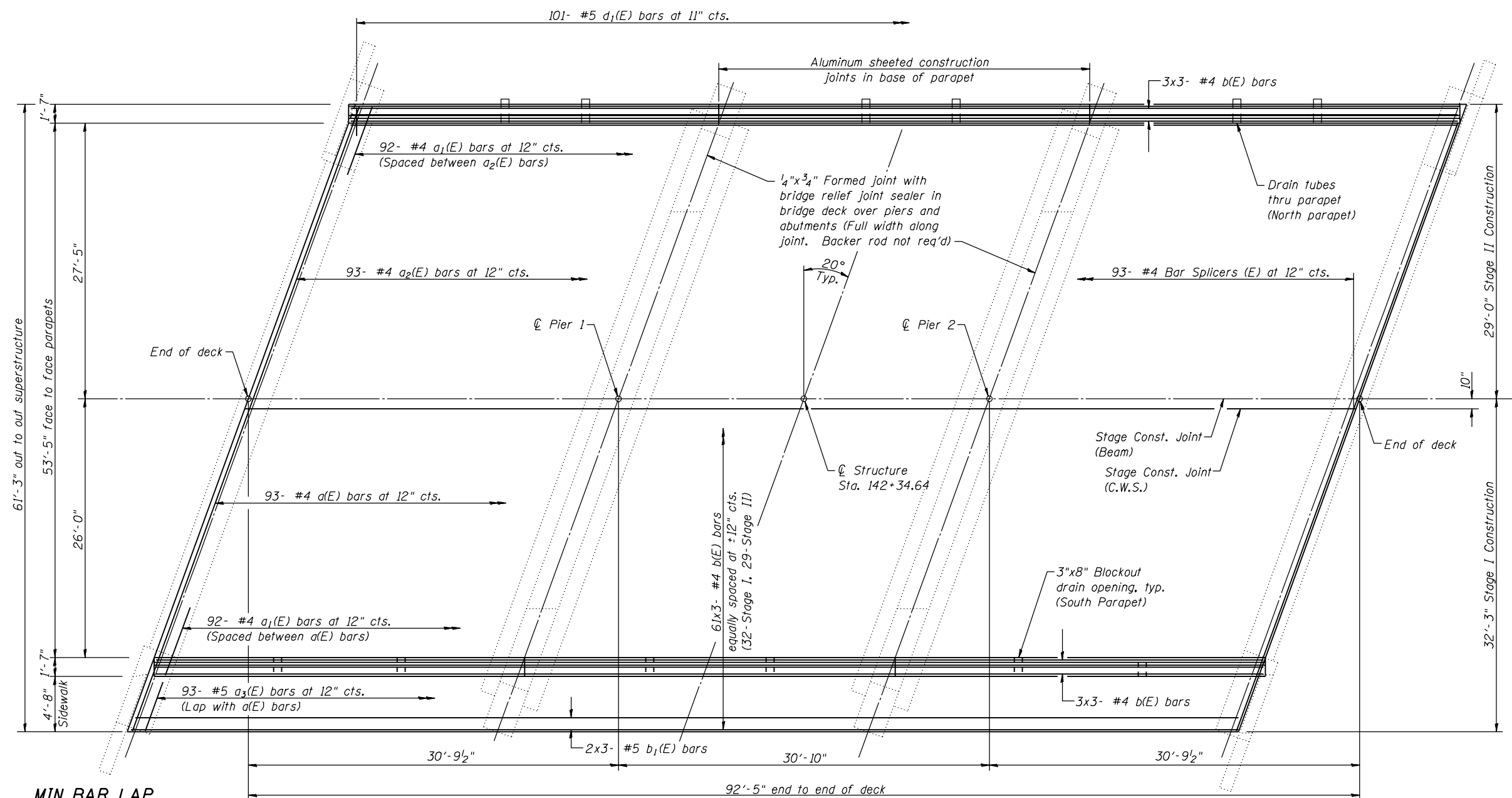
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CITY OF DECATUR, ILLINOIS
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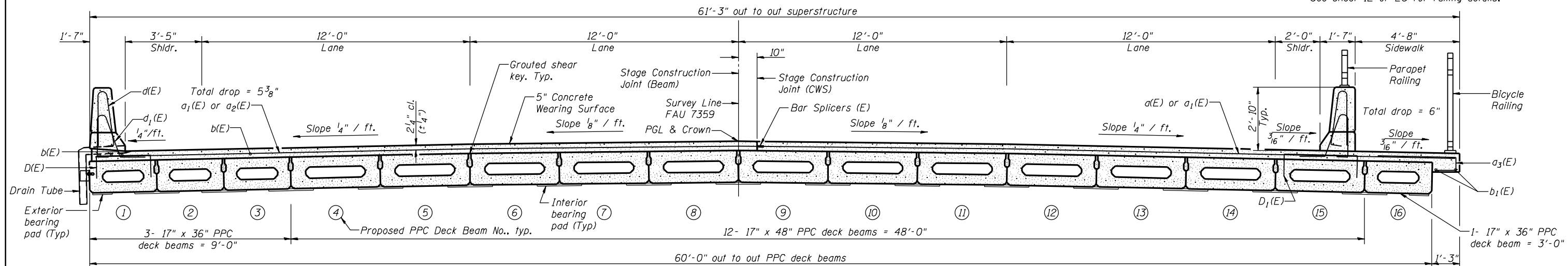
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TOP OF EAST APPROACH SLAB ELEVATIONS

SCALE: SHEET 6 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	45
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

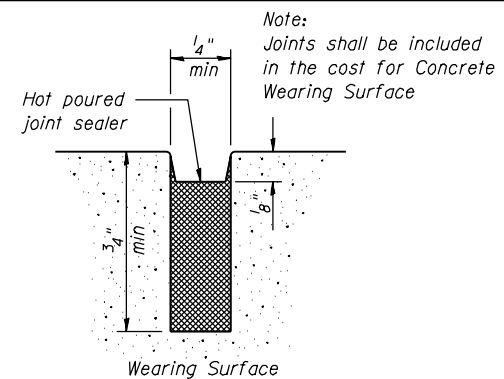


PLAN

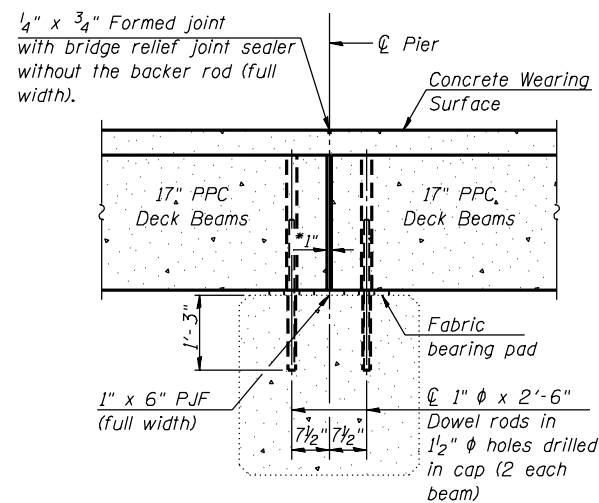


CROSS SECTION

(Looking East)



FORMED JOINT DETAIL

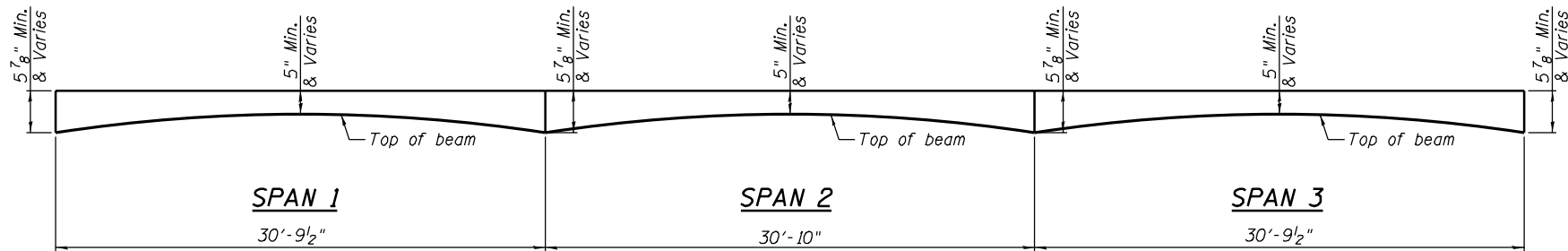


SECTION THRU PIER

(Dimensions are at Rt. L's)

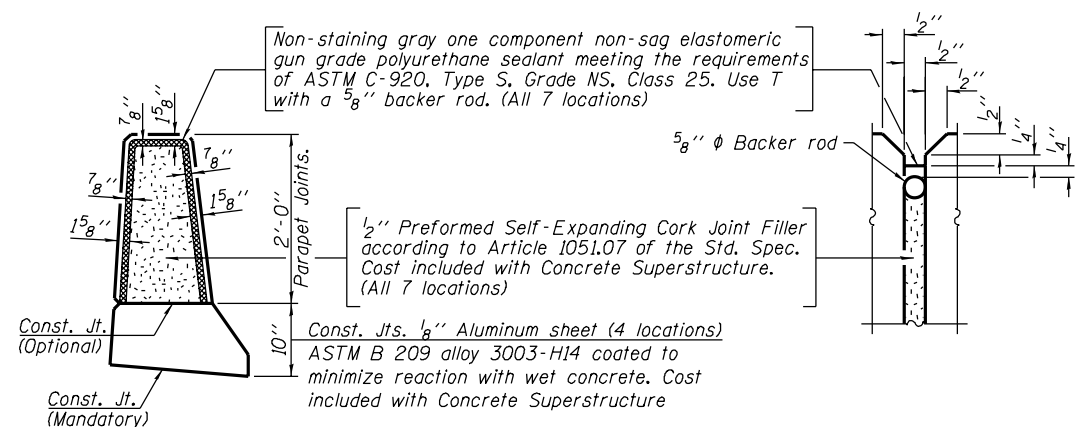
*1" joint shall be filled with non-shrink grout.
1" dimension may vary to accomodate tolerance
in beam length.

Notes:
See sheets 8 & 9 of 23 for Superstructure Details and Bill of Material.
Bars indicated thus 60 x 3- #4 etc., indicates 60 lines of bars with 3 lengths per line.
Spacing of a(E) thru a3(E) bars shall be measured along the ϕ of structure.
See sheet 1 of 23 for Drain Tube spacing along North Parapet.
See sheet 12 of 23 for railing details.

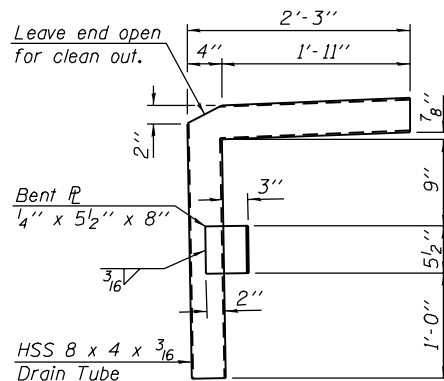


ANTICIPATED CONCRETE WEARING SURFACE PROFILE

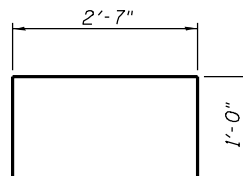
(For information only, thickness will vary from beam to beam to account for the variations between proposed grade elevations and existing abutment and pier cap elevations)



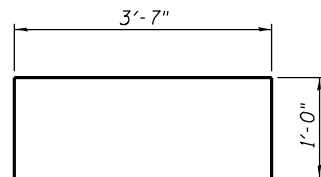
PARAPET JOINT DETAILS



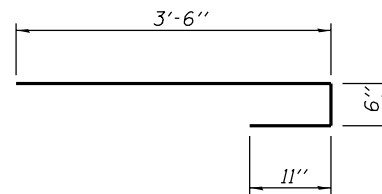
DETAIL A



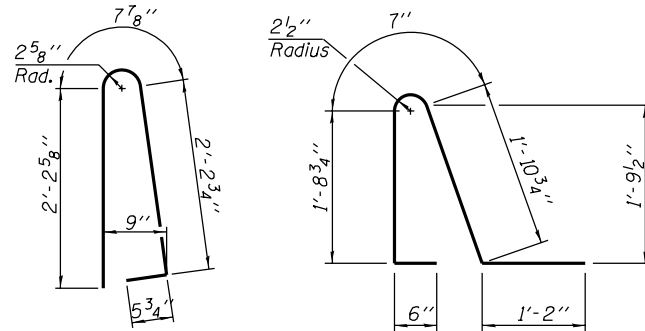
BAR D(E)



BAR D1(E)



BAR a3(E)



BAR d(E)

BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	93	#4	33'-1"	—
a1(E)	184	#4	6'-0"	—
a2(E)	93	#4	31'-5"	—
a3(E)	93	#5	4'-11"	—
b(E)	201	#4	32'-4"	—
b1(E)	6	#5	32'-9"	—
d(E)	202	#5	5'-7"	—
d1(E)	202	#5	5'-11"	—
e(E)	84	#4	15'-1"	—
e1(E)	6	#8	30'-6"	—
e2(E)	6	#4	30'-6"	—
Concrete Superstructure			Cu. Yd.	21.7
Bridge Deck Grooving			Sq. Yd.	528
Protective Coat			Sq. Yd.	714
Reinforcement Bars, Epoxy Coated			Pound	13,650
Bar Splicers			Each	93
Concrete Wearing Surface (Variable Depth)			Sq. Yd.	629

Bars indicated thus 2 x 3-#5 etc. indicates 2 line of bars with 3 lengths per line.
Protective Coat shall also be applied to Exterior face (10" depth) of bridge sidewalk.

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:10 FTH / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 8/16/2018

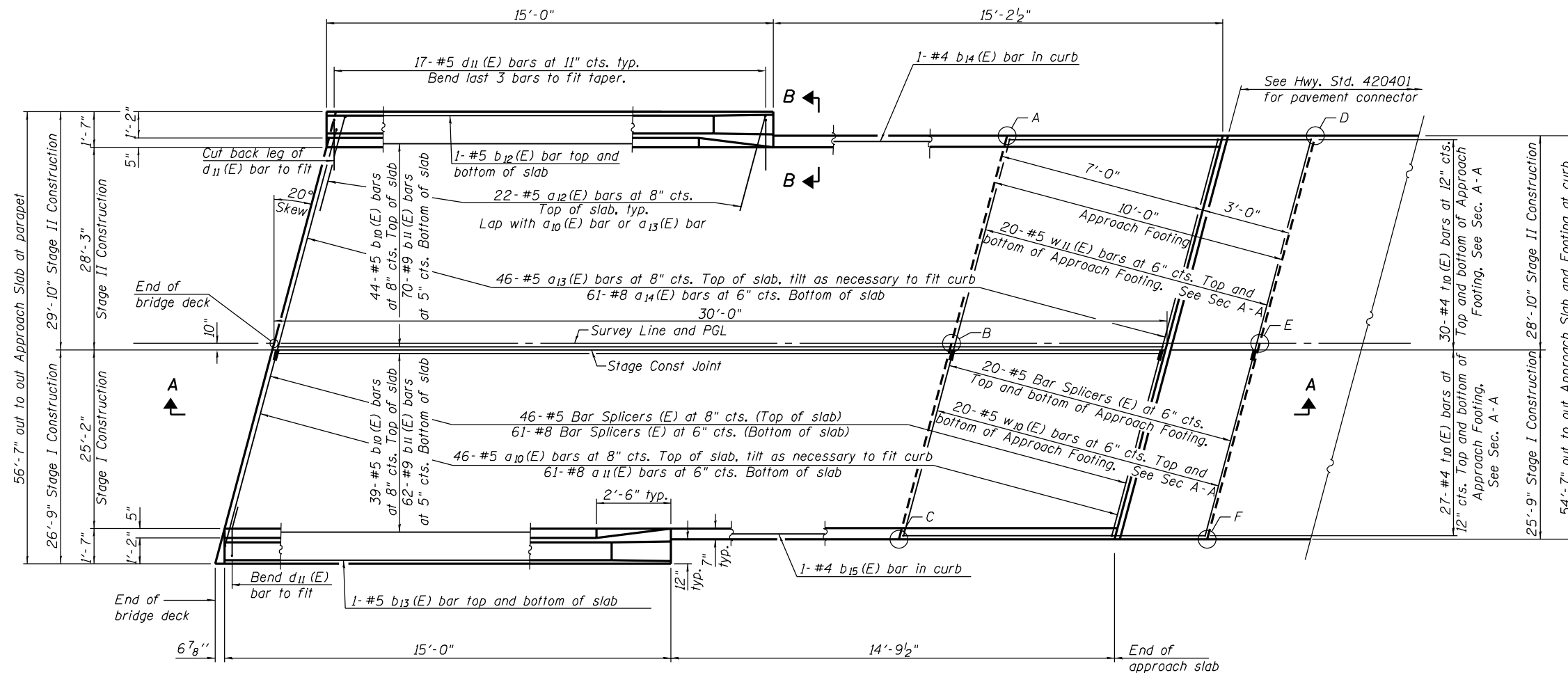
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REVISED -

**CITY OF DECATUR, ILLINOIS
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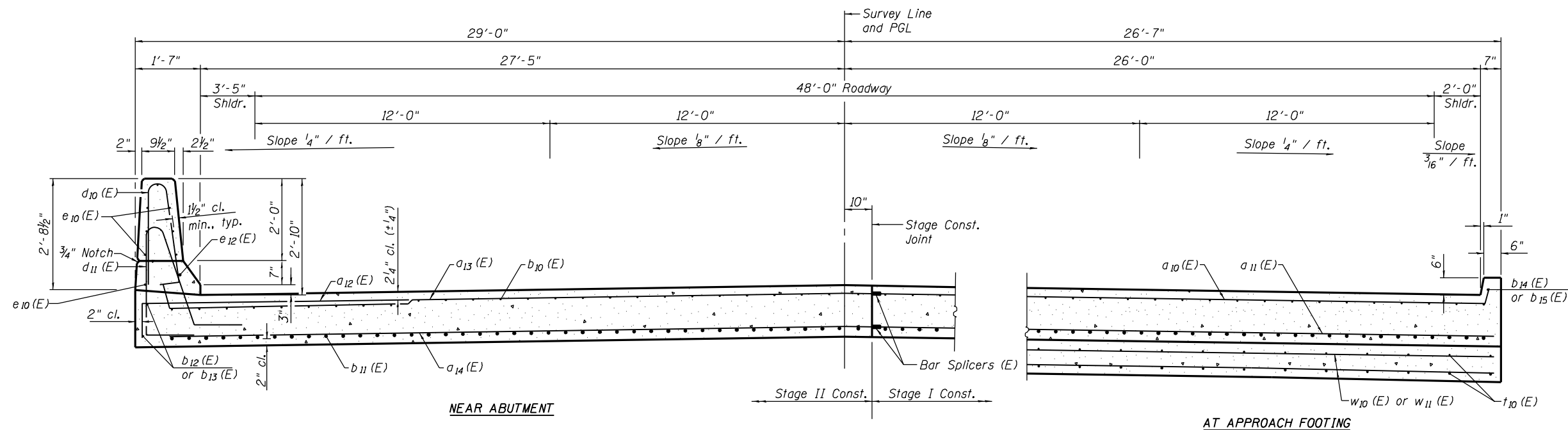
**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
SUPERSTRUCTURE DETAILS 3**

SCALE: SHEET 9 OF 23 SHEETS STA. TO STA.

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
7359 17-00706-00-BR MACON 85 48
STRUCTURE NO. 058-3035 CONTRACT NO. 95841
ILLINOIS FED. AID PROJECT



PLAN



CROSS SECTION
(Looking East)

TOP AND BOTTOM ELEVATIONS
FOR WEST APPROACH FOOTING

Point	Top	Bottom	Sta.	Offset	Lt. / Rt.
F	649.19	648.36	141+65.43	28.00'	Lt.
E	649.69	648.85	141+55.24	0.00'	
D	649.29	648.46	141+45.57	26.58'	Rt.
C	649.16	648.32	141+76.08	28.00'	Lt.
B	649.65	648.82	141+65.89	0.00'	
A	649.26	648.42	141+56.21	26.58'	Rt.

TOP AND BOTTOM ELEVATIONS
FOR EAST APPROACH FOOTING

Point	Top	Bottom	Sta.	Offset	Lt. / Rt.
A	648.67	647.84	143+13.59	28.00'	Lt.
B	649.17	648.34	143+03.40	0.00'	
C	648.77	647.94	142+93.73	26.58'	Rt.
D	648.64	647.80	143+24.23	28.00'	Lt.
E	649.13	648.30	143+14.04	0.00'	
F	648.74	647.90	143+04.37	26.58'	Rt.

(Sheet 1 of 2)

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345 EAST ASH AVE.
SUITE 8
DECATUR, IL 62526
(217) 875-4800

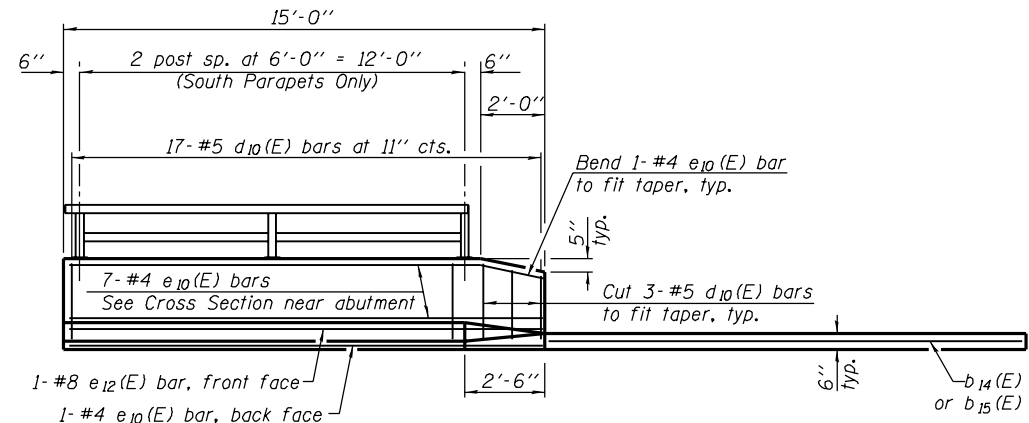
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
DRAWN - BKN	REVISED -	
PLOT SCALE = 20:1 ftn / in.	CHECKED - DD	REVISED -
PLOT DATE = 10/4/2018	DATE - 8/16/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BRIDGE APPROACH SLAB DETAILS

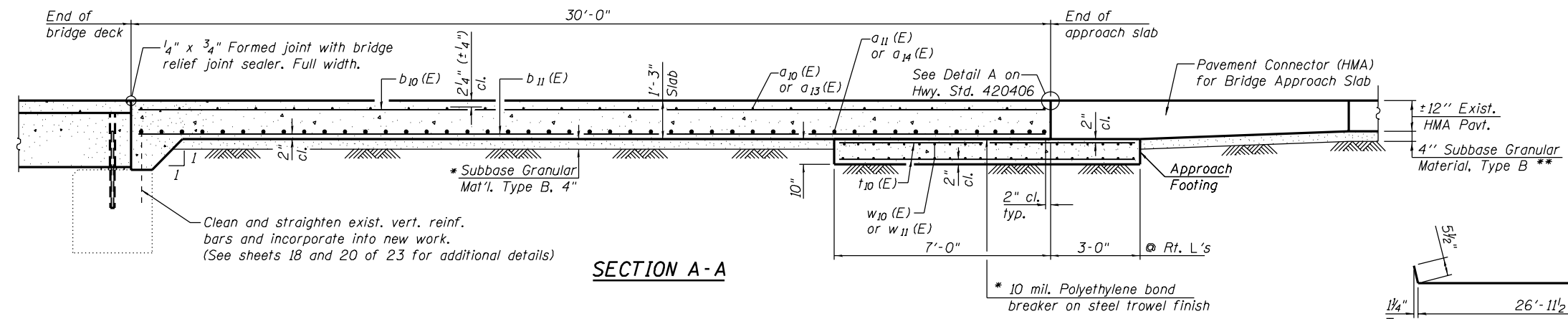
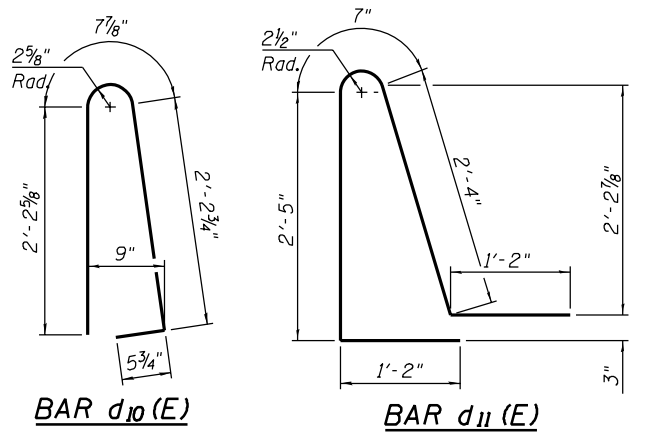
SCALE: SHEET 10 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
		ILLINOIS FED. AID PROJECT		



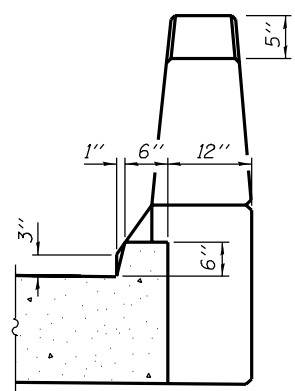
INSIDE ELEVATION OF PARAPET AND CURB
(SW Parapet shown, NW, NE, & SE parapets similar)

Notes:
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 additional parapet details, see sheet 8 of 23.
For Bar Splicer details, see sheet 23 of 23.
Spacing of a10(E) bars thru a14(E) bars shall be measured along the C of structure.

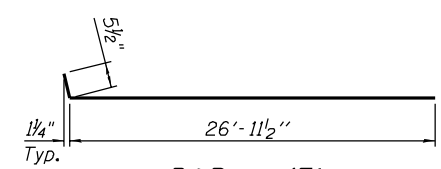


SECTION A-A

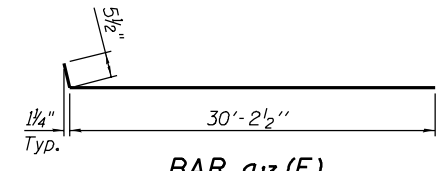
* Cost included with Concrete Superstructure (Approach Slab).
** Cost included with Pavement Connector (HMA) for Bridge Approach Slab



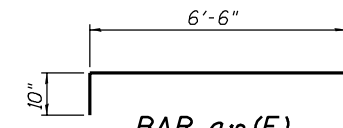
VIEW B-B



BAR a10(E)



BAR a13(E)

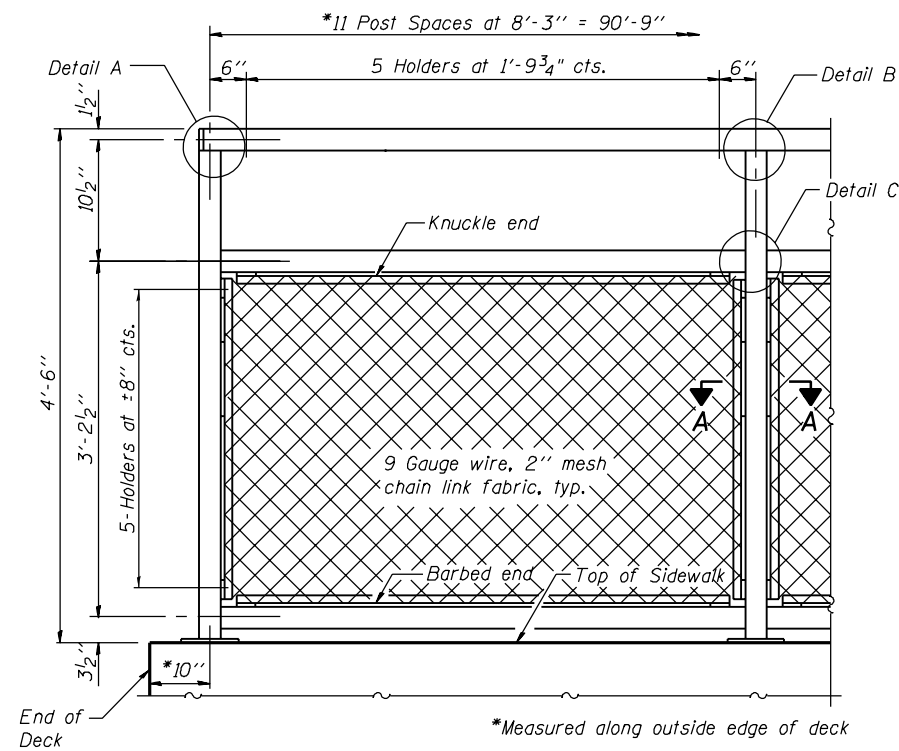


BAR a12(E)

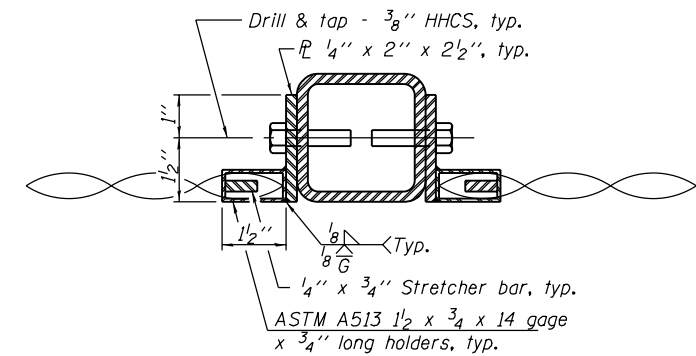
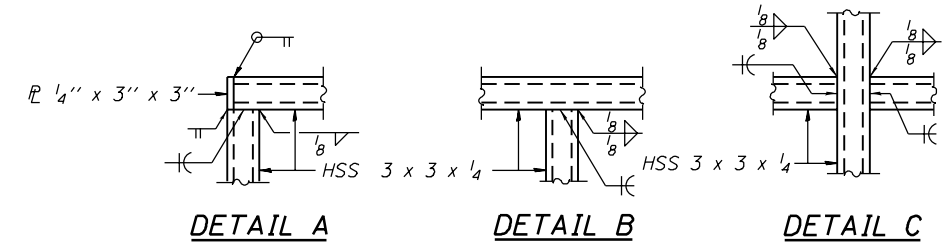
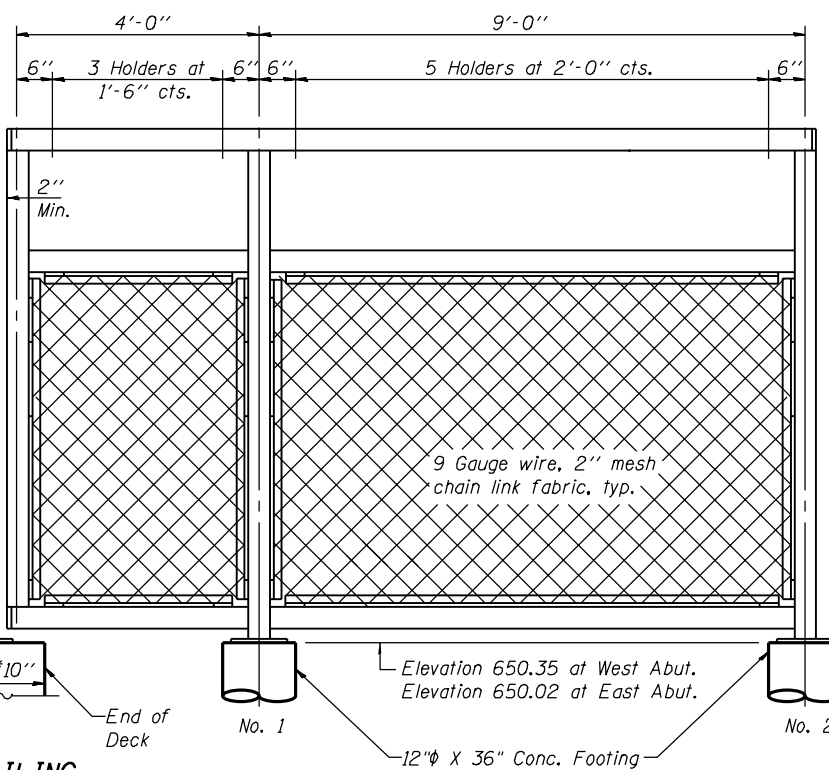
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	27'-5"	
a11(E)	122	#8	27'-1"	
a12(E)	72	#5	7'-4"	
a13(E)	92	#5	30'-8"	
a14(E)	122	#8	30'-4"	
b10(E)	166	#5	29'-8"	
b11(E)	264	#9	29'-8"	
b12(E)	4	#5	14'-2"	
b13(E)	4	#5	15'-2"	
b14(E)	2	#4	14'-10"	
b15(E)	2	#4	14'-5"	
d10(E)	68	#5	5'-7"	
d11(E)	68	#5	7'-8"	
e10(E)	32	#4	14'-8"	
e12(E)	4	#8	14'-8"	
t10(E)	228	#4	10'-4"	
w10(E)	80	#5	27'-1"	
w11(E)	80	#5	30'-4"	
Concrete Structures			Cu. Yd.	35.9
Concrete Superstructure			Cu. Yd.	7.1
Concrete Superstructure (Approach Slab)			Cu. Yd.	159.5
Bridge Deck Grooving			Sq. Yd.	343
Protective Coat			Sq. Yd.	398
Reinforcement Bars, Epoxy Coated			Pound	64,530
Bar Splicers			Each	294

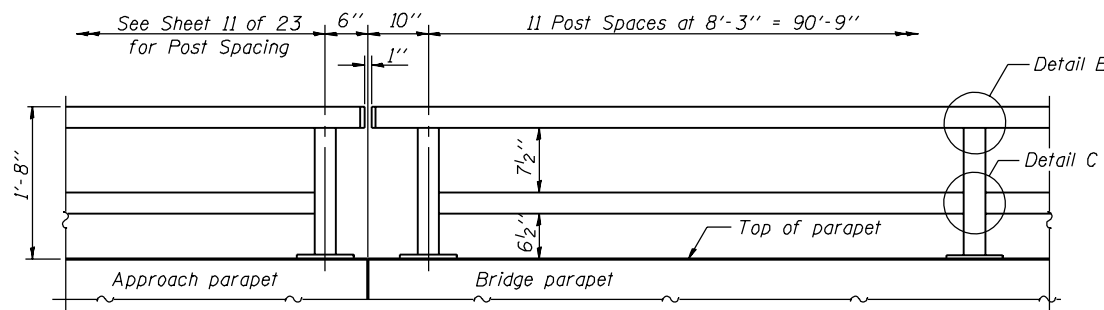
(Sheet 2 of 2)



BICYCLE RAILING



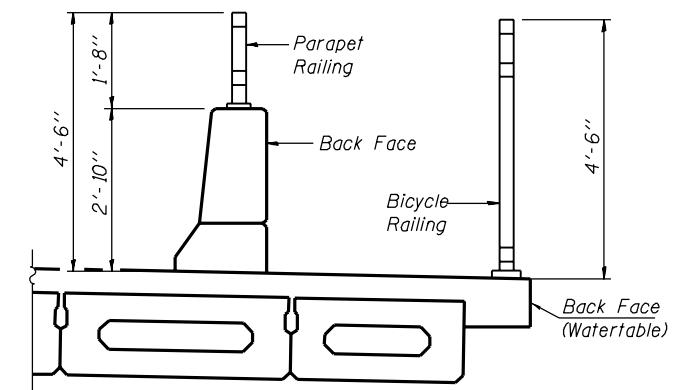
SECTION A-A



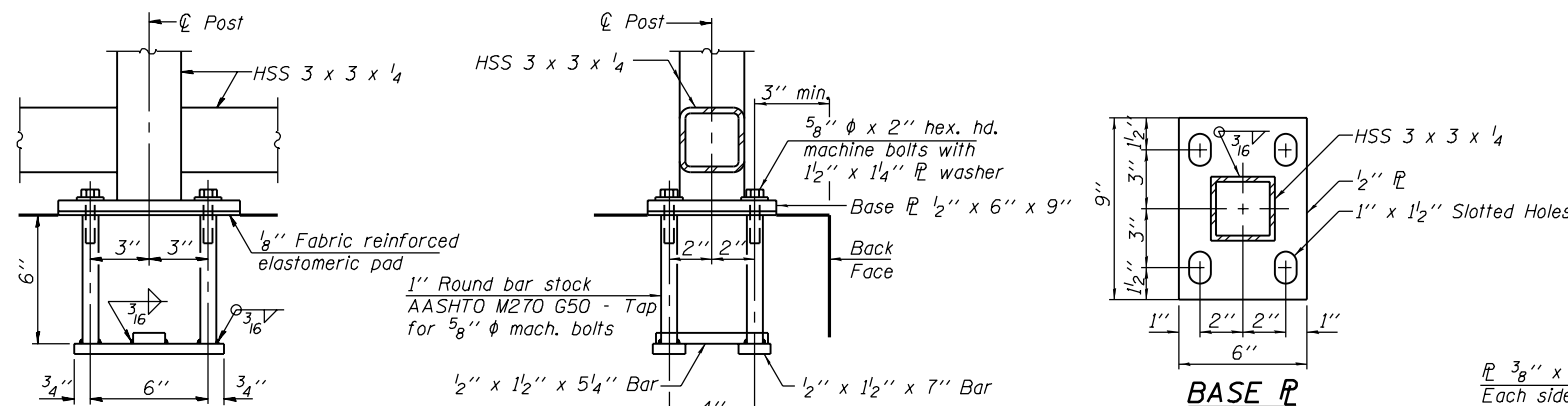
PARAPET RAILING ELEVATION AT BRIDGE AND APPROACH
(Inside Face of Two Element Rail, South Parapet only)

FOOTING LOCATION

Description	Station	Offset
West Abut. No. 1	141+73.23	32.78' Rt
West Abut. No. 2	141+64.47	34.86' Rt
East Abut. No. 1	142+72.59	32.78' Rt
East Abut. No. 2	142+81.35	34.86' Rt

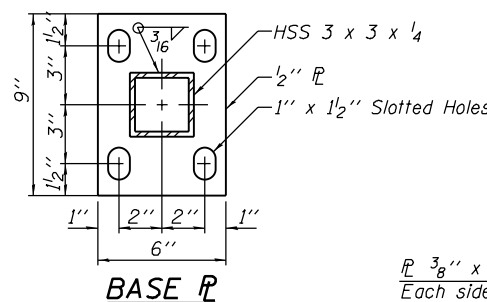


SECTION THRU DECK

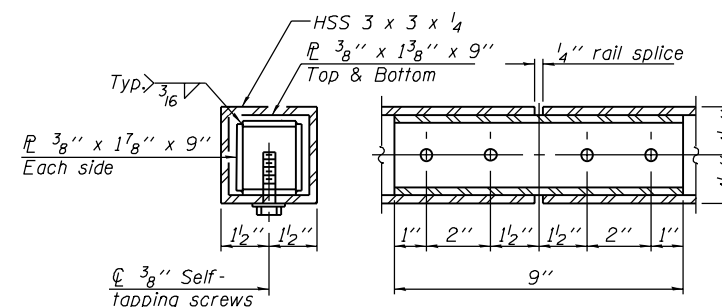


ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BASE PLATE



RAIL SPLICE

Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
CVN testing may be omitted for the Bicycle Railing.
Footings for Bicycle Railing end panels shall be included in the cost of Bicycle Railing, Special.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing, Special	Foot	118
Parapet Railing	Foot	118

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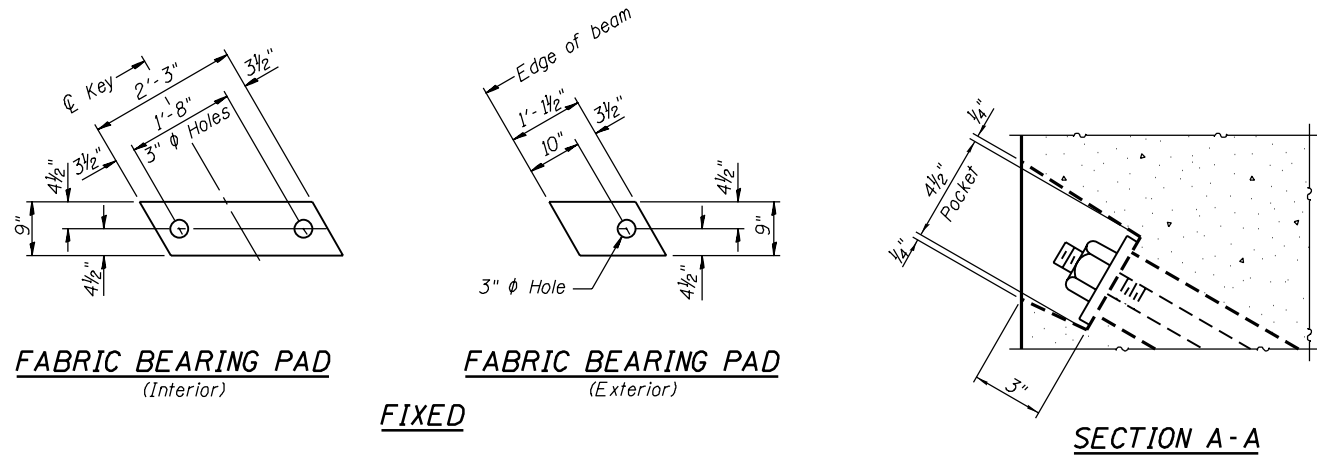
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
PLOT SCALE = 20:1 F.T.M. / IN.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 8/16/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

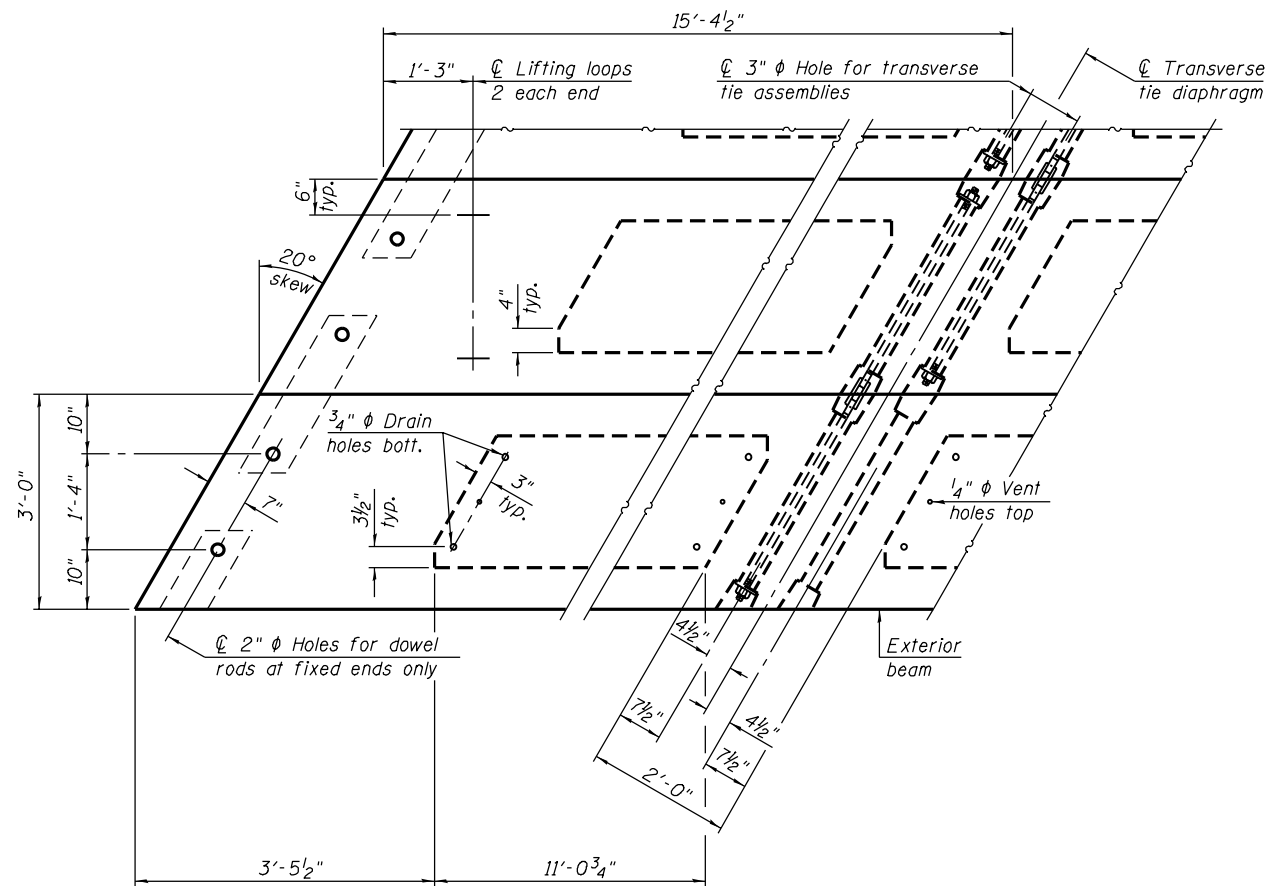
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BICYCLE RAILING

SCALE: SHEET 12 OF 23 SHEETS STA. TO STA.

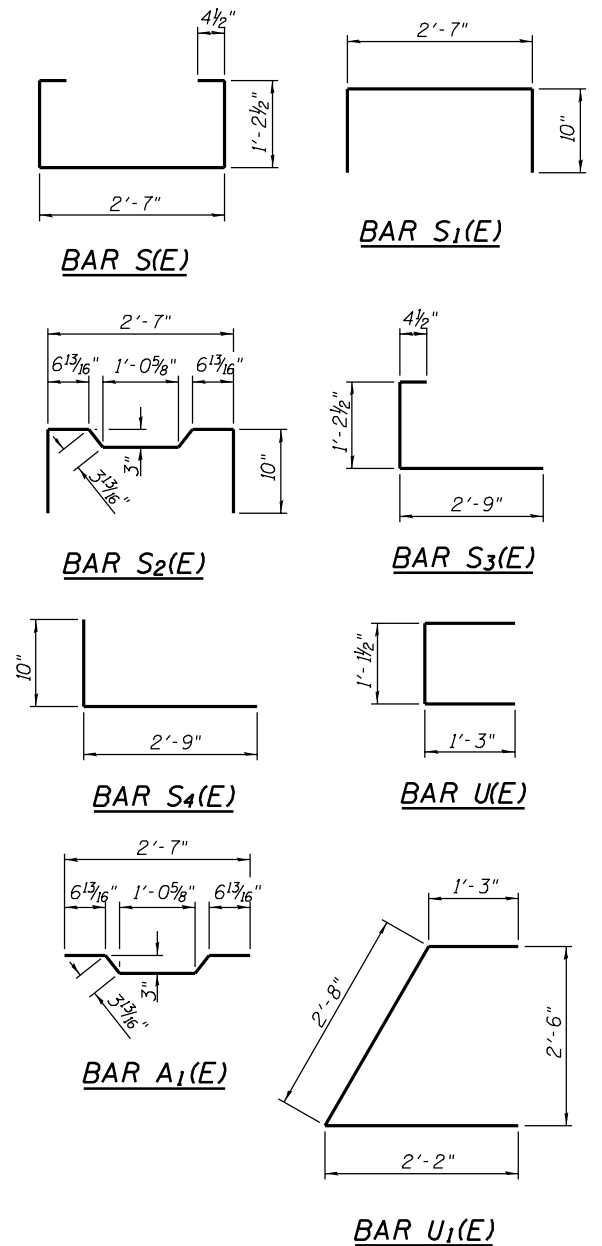
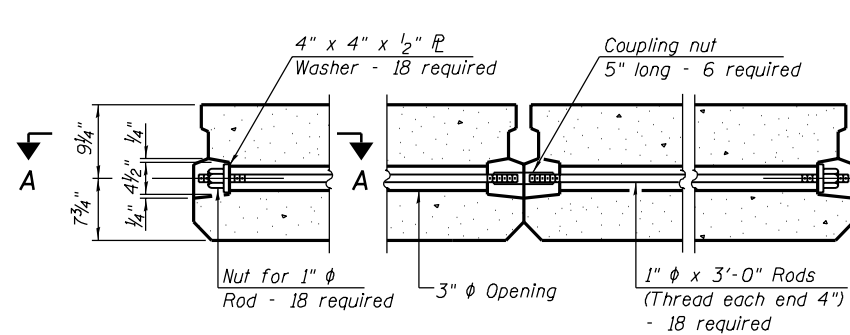
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	51
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



Notes:
All bearing pads shall be 1" thick.



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



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

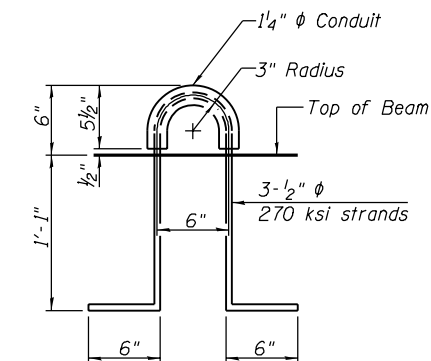
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Burn existing dowel rods flush with existing pier and abutment surfaces. Cost included with Removal of Existing Superstructures.



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1107
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PD-1736-LD

2-17-2017

AECOM
345 EAST ASH AVE.
SUITE 3
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:10 ftn / in.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 8/16/2018

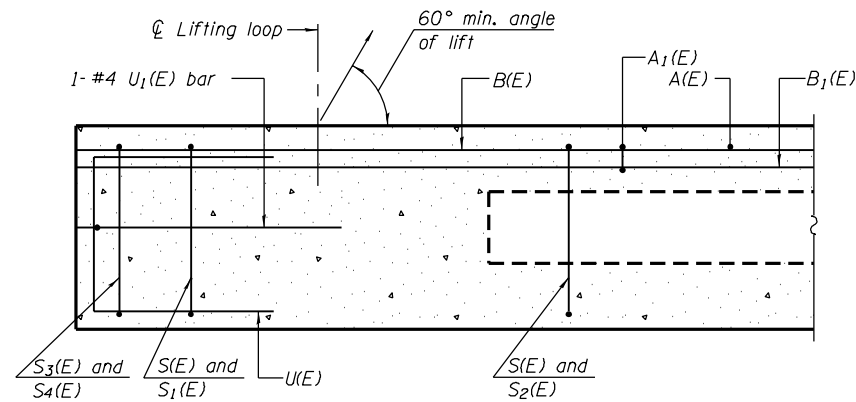
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CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

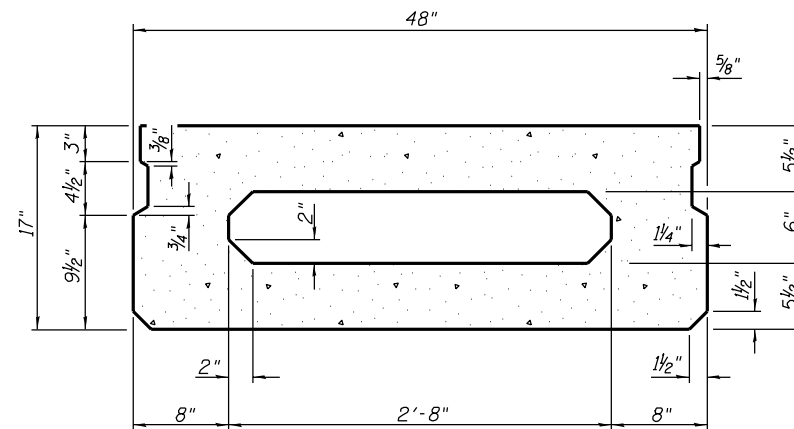
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 36" PPC DECK BEAM DETAILS

SCALE: SHEET 14 OF 23 SHEETS STA. TO STA.

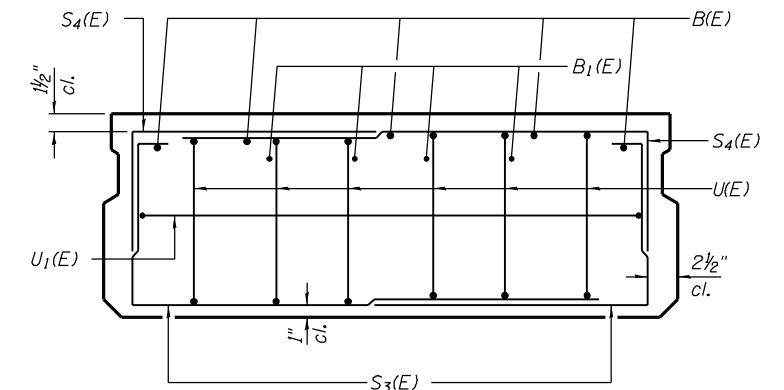
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	53
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



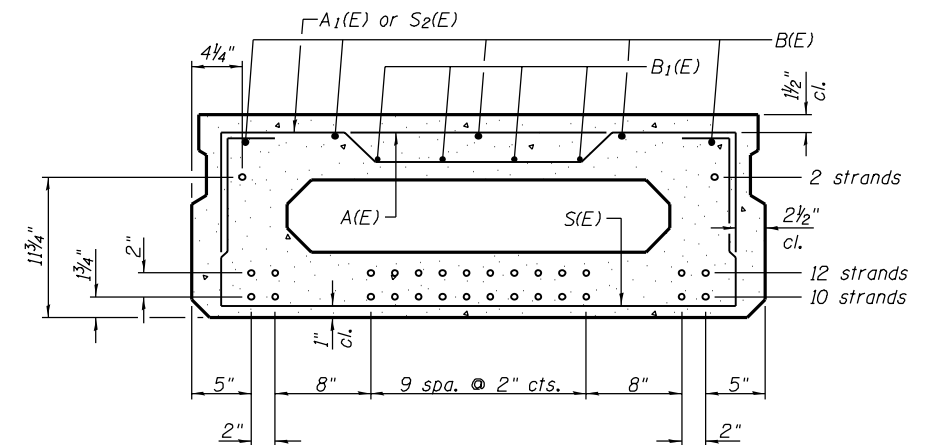
SECTION A-A



SECTION B-B
(Showing dimensions)



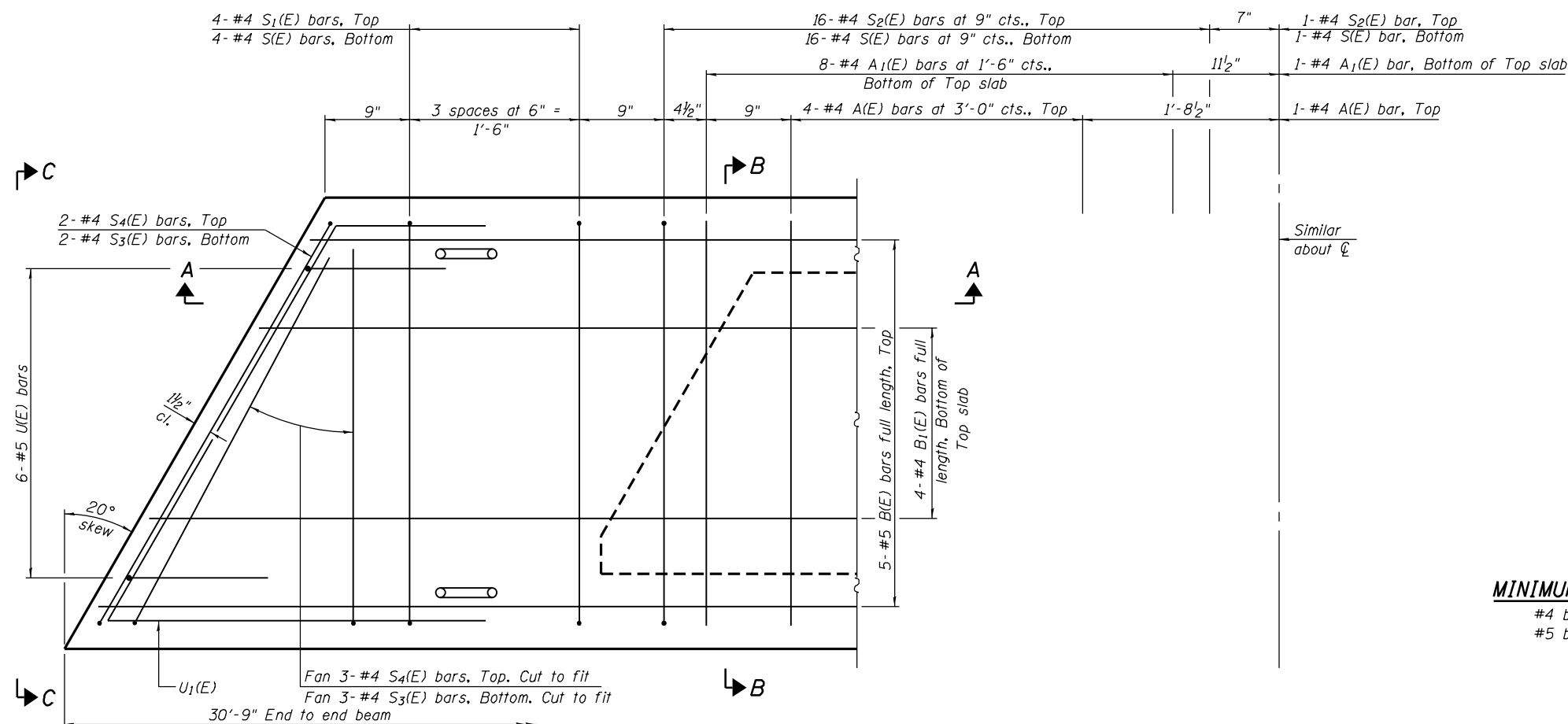
VIEW C-C



SECTION B-B

(Showing reinforcement and permissible strand locations)

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



PLAN VIEW

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

MINIMUM BAR LAP

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

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	3'-7"	—
A1(E)	17	#4	3'-10"	—
B(E)	5	#5	30'-5"	—
B1(E)	4	#4	30'-5"	—
S(E)	41	#4	6'-9"	U
S1(E)	8	#4	5'-3"	U
S2(E)	33	#4	5'-6"	U
S3(E)	10	#4	4'-11"	U
S4(E)	10	#4	4'-2"	U
U(E)	12	#5	3'-8"	U
U1(E)	2	#4	7'-6"	U

Note: See sheet 16 of 23 for additional details and Bill of Material.
See sheet 8 of 23 for D1(E) bars to be included with Beam No. 15.

PD-1748-L

2-17-2017

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345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 F.T. / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 8/16/2018

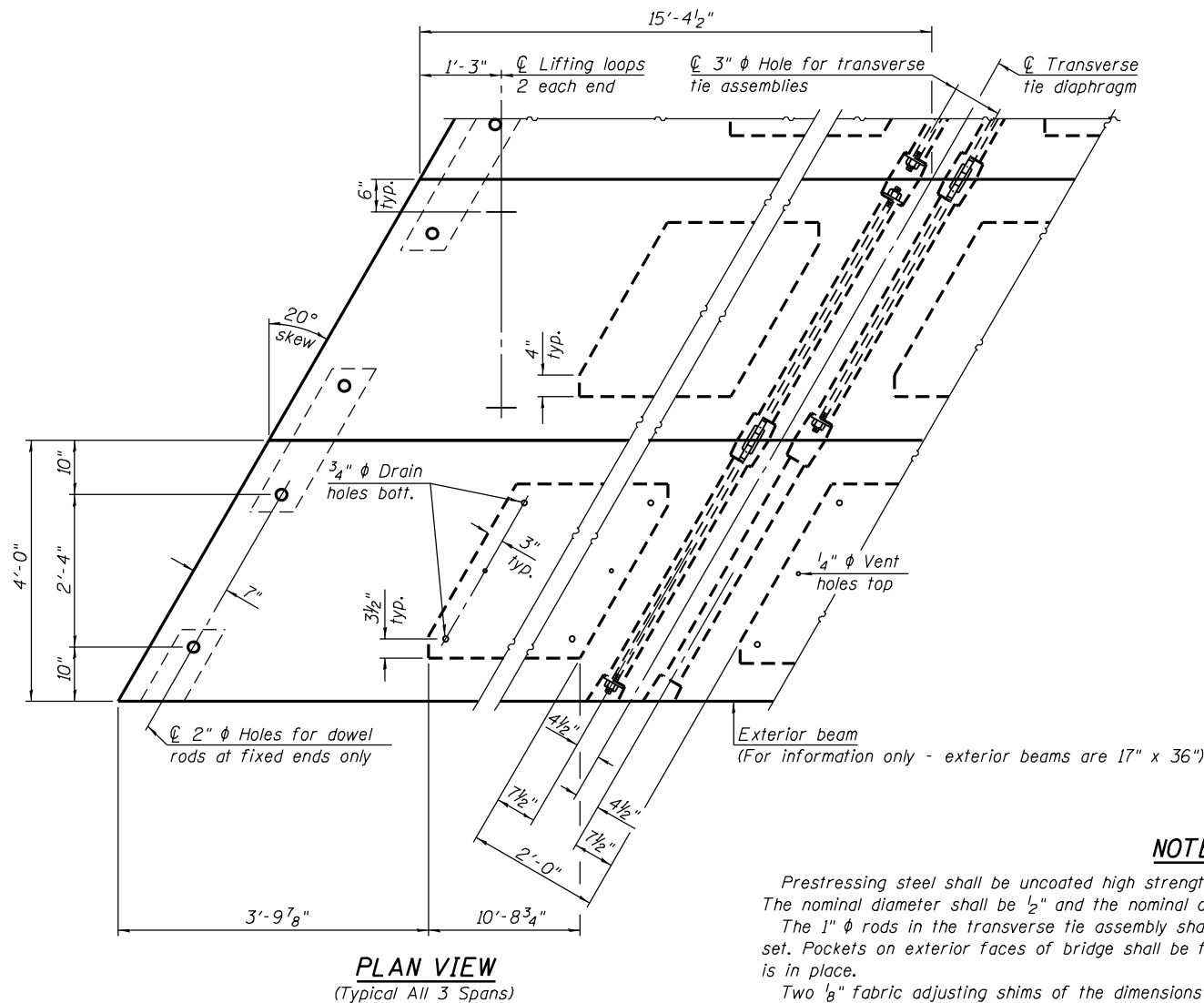
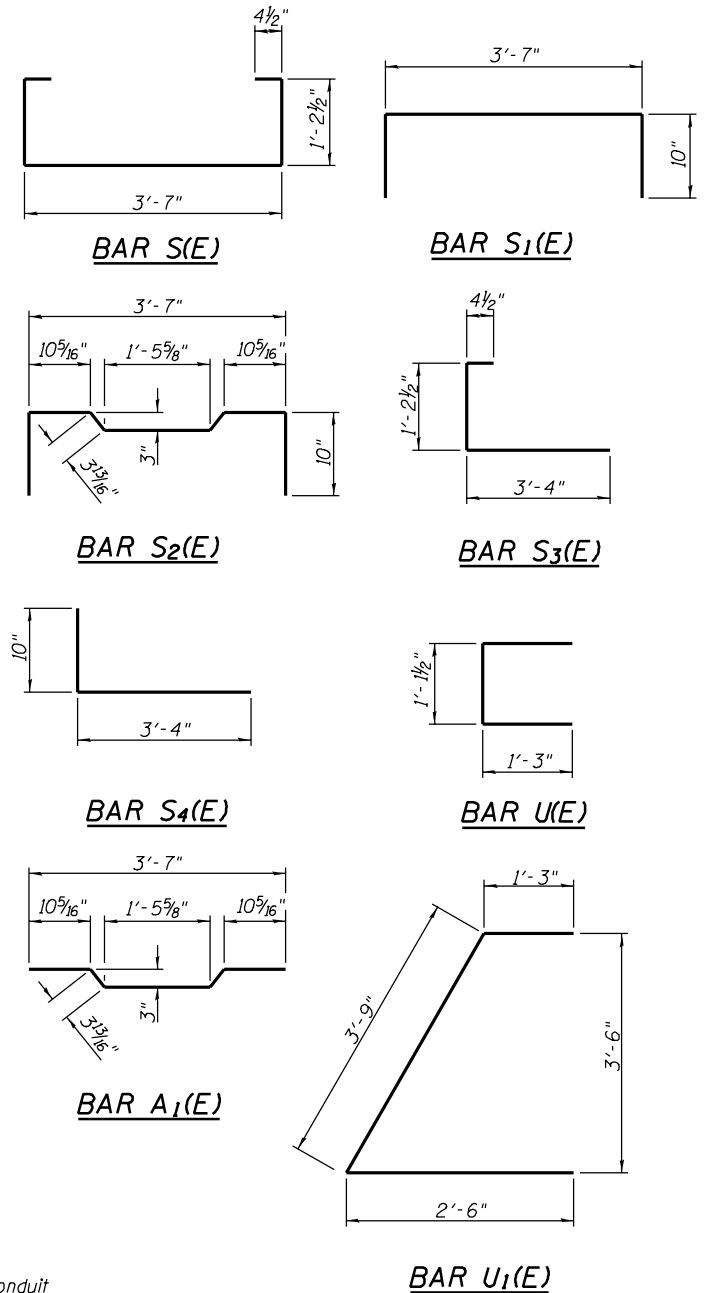
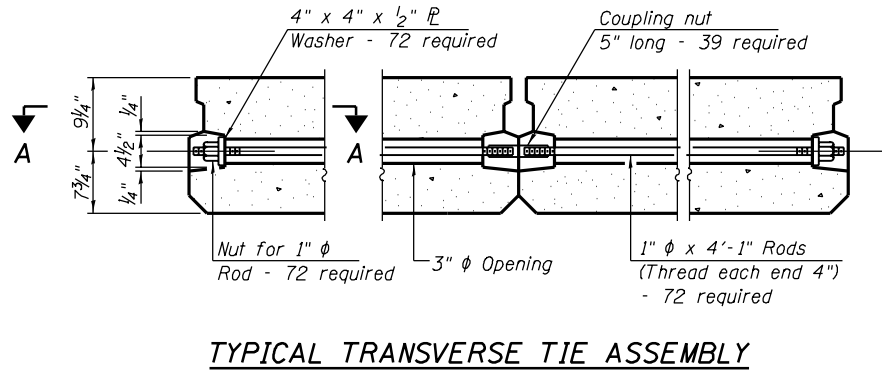
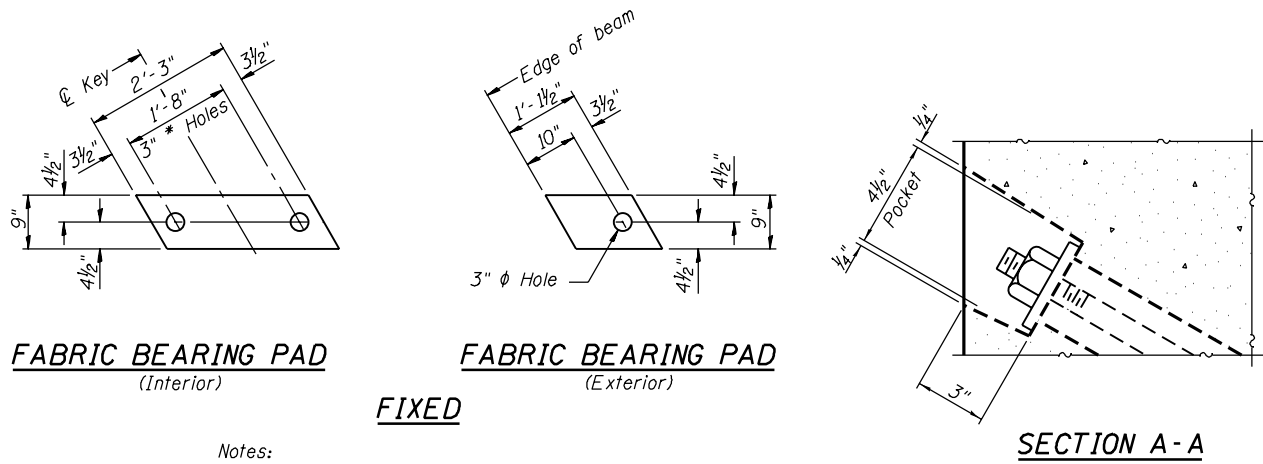
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CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 48" PPC DECK BEAM

SCALE: SHEET 15 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	54
STRUCTURE NO. 058-3035			CONTRACT NO. 95841	
ILLINOIS FED. AID PROJECT				



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

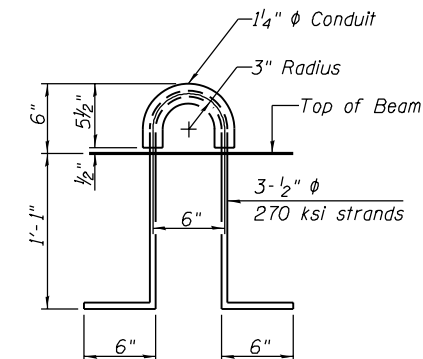
A minimum 2 1/2" phi lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Burn existing dowel rods flush with existing pier and abutment surfaces. Cost included with Removal of Existing Superstructures.



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	4428
---	---------	------

PD-1748-LD

2-17-2017

AECOM
345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

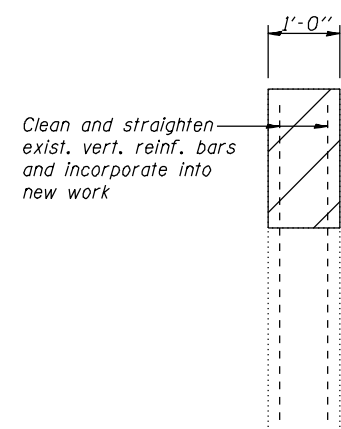
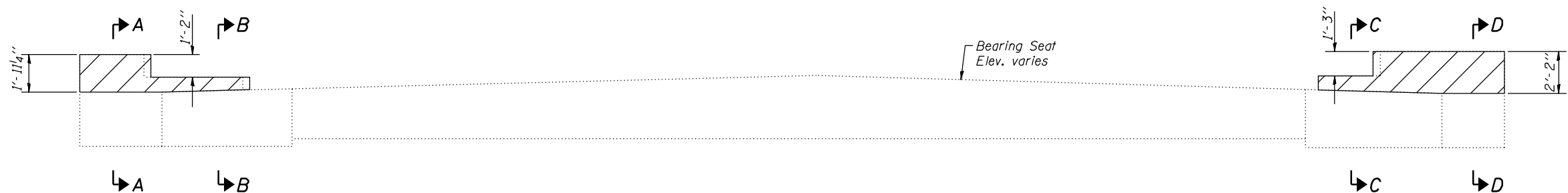
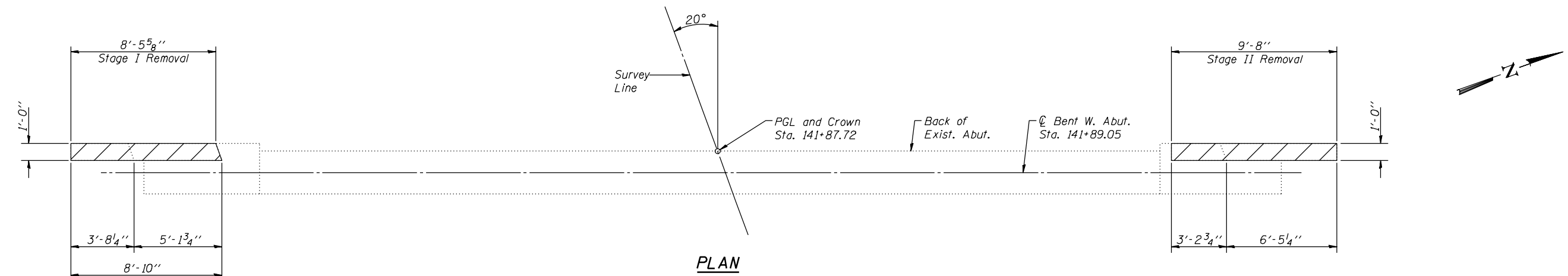
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PLOT SCALE = 20:1 ftn / in.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 8/16/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

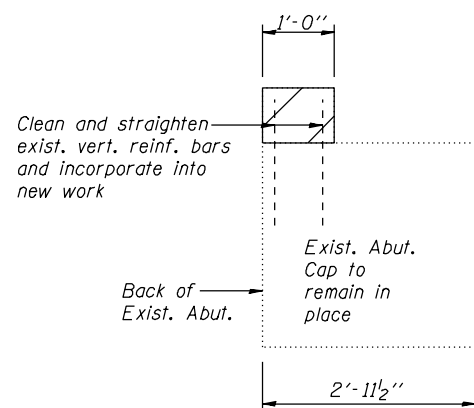
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 48" PPC DECK BEAM DETAILS

SCALE: SHEET 16 OF 23 SHEETS STA. TO STA.

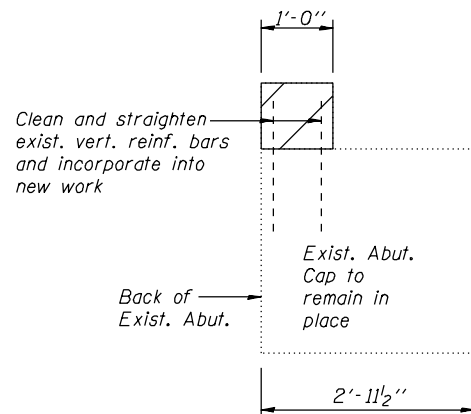
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	55
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



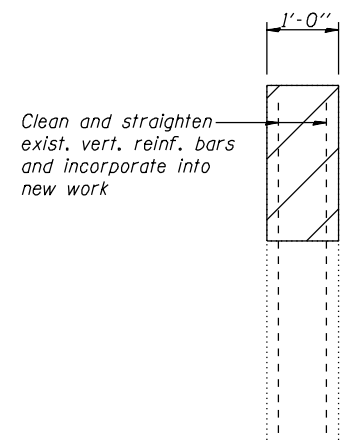
SECTION A-A
(Dimensions are at Rt. L's)



SECTION B-B
(Dimensions are at Rt. L's)



SECTION C-C
(Dimensions are at Rt. L's)



SECTION D-D
(Dimensions are at Rt. L's)

NOTES:

Hatched areas indicate Concrete Removal.

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.

Per existing plans, 13 graphited asbestos bearing pads (1/4" thick) are in place under existing Beams 3 thru 16. These pads shall be removed and disposed of according to Recurring Special Provision Check Sheet No. 6, with cost included in Asbestos Bearing Pad Removal.

AECOM
345 EAST ASH AVE.
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(217) 875-4800

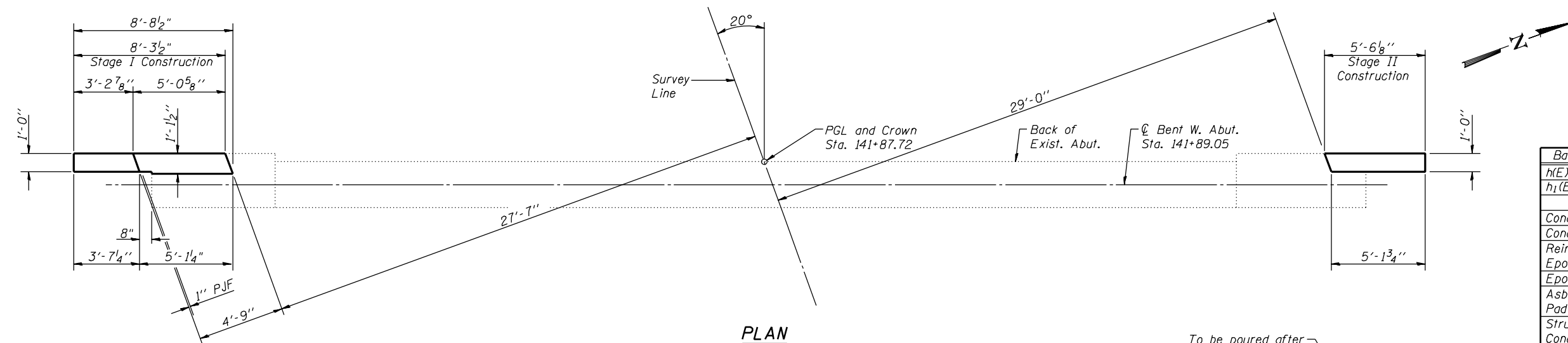
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DRAWN - BKN	REVISOR -	
PLOT SCALE = 20:1 ft/in.	CHECKED - DD	REVISOR -
PLOT DATE = 10/4/2018	DATE - 8/16/2018	REVISOR -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

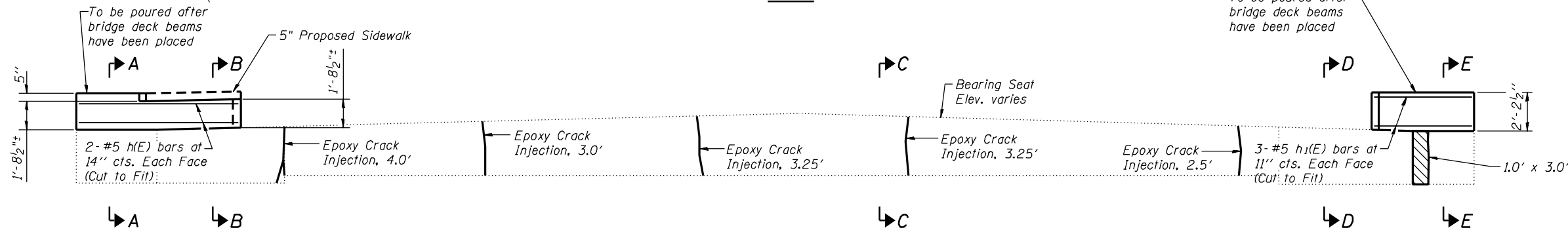
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
WEST ABUTMENT CONCRETE REMOVAL

SCALE: SHEET 17 OF 23 SHEETS STA. TO STA.

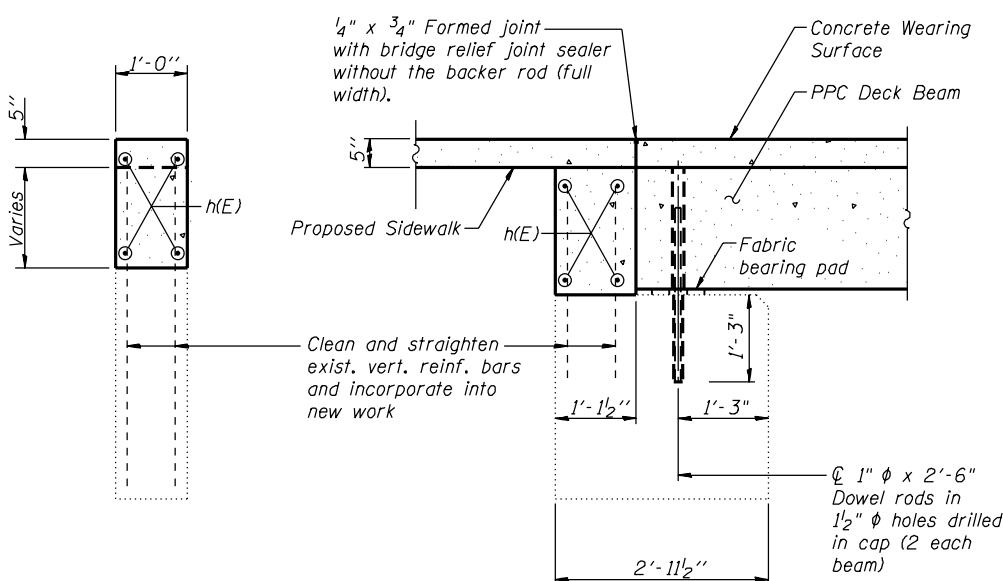
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7359	17-00706-00-BR	MACON	85	56
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



PLAN



ELEVATION

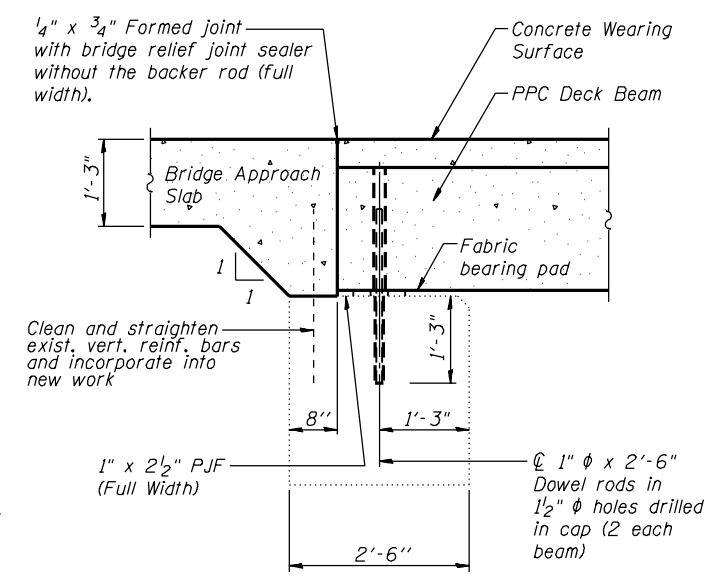


SECTION A-A

(Dimensions are at Rt. L's)

SECTION B-B

(Dimensions are at Rt. L's)

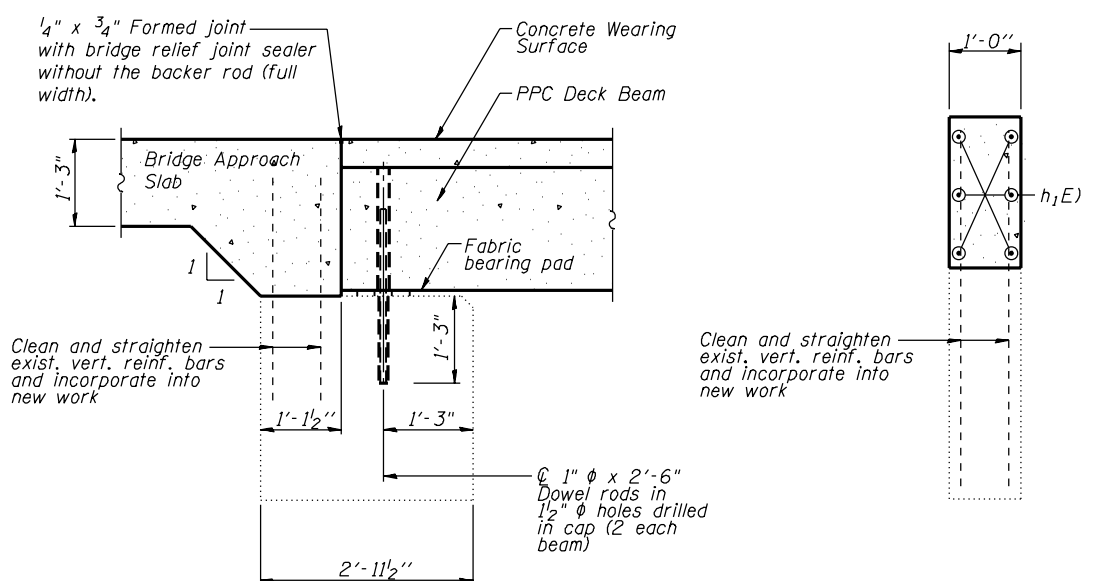


SECTION C-C

(Dimensions are at Rt. L's)

SECTION D-D

(Dimensions are at Rt. L's)



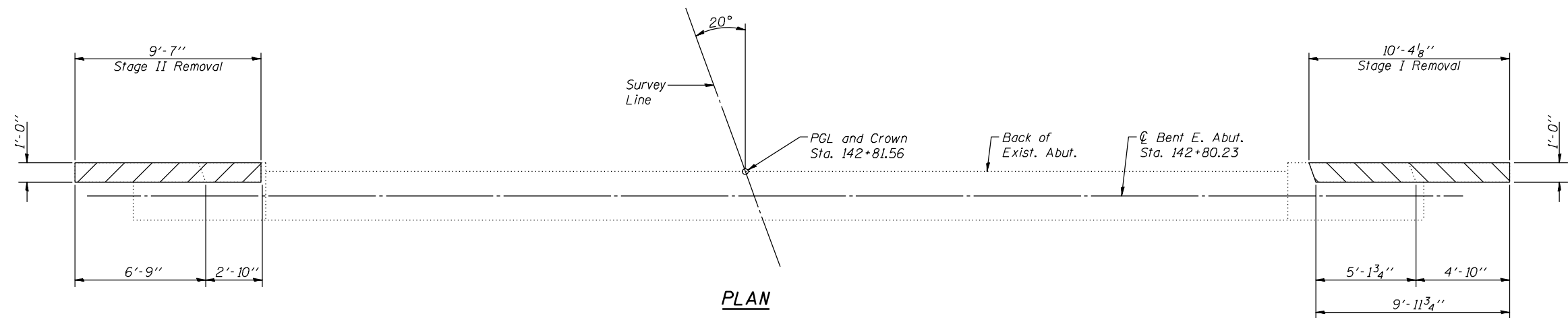
SECTION E-E

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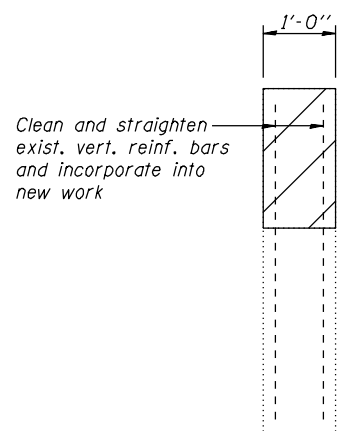
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#5	8'-5"	—
h1(E)	6	#5	5'-2"	—
Concrete Removal			Cu. Yd.	1.1
Concrete Structures			Cu. Yd.	1.1
Reinforcement Bars, Epoxy Coated			Pound	70
Epoxy Crack Injection			Foot	32
Asbestos Bearing Pad Removal			Each	13
Structural Repair of Concrete (Depth Equal to or Less than 5')			Sq. Ft.	6

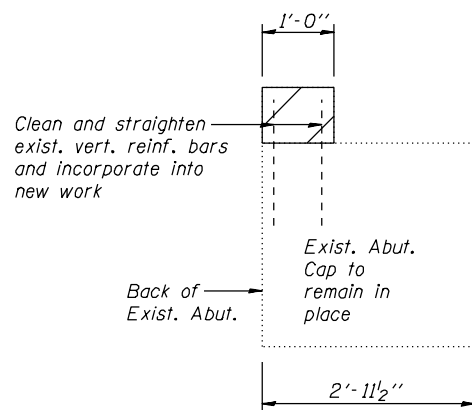
Notes:
 Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
 Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Note that repair lengths and areas shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.
 If existing reinforcement bars are damaged during concrete removal and are not able to be re-used, new #5 bars shall be drilled and grouted into abutment cap with 15" minimum embedment. Within Bridge Approach Slab limits, the new bars shall reach mid depth of approach slab and have 90° hook with 12" hook length. Cost included with Concrete Removal.



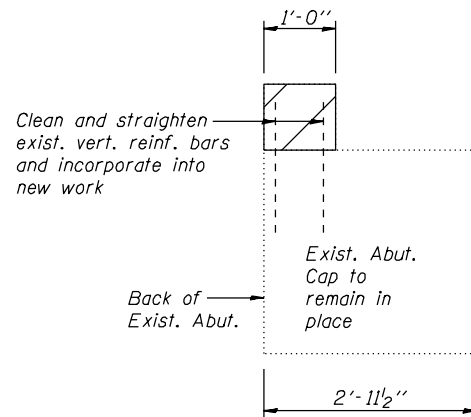
ELEVATION



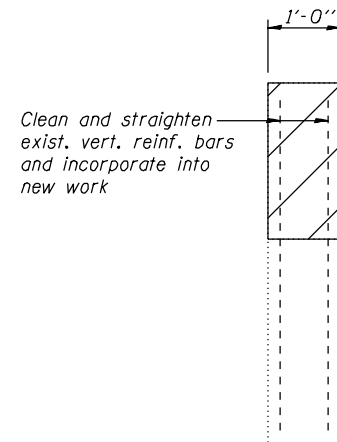
SECTION A-A
(Dimensions are at Rt. L's)



SECTION B-B
(Dimensions are at Rt. L's)



SECTION C-C
(Dimensions are at Rt. L's)



SECTION D-D
(Dimensions are at Rt. L's)

NOTES:

Hatched areas indicate Concrete Removal.

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.

Per existing plans, 13 graphited asbestos bearing pads (1/4" thick) are in place under existing Beams 3 thru 16. These pads shall be removed and disposed of according to Recurring Special Provision Check Sheet No. 6, with cost included in Asbestos Bearing Pad Removal.

AECOM

345 EAST ASH AVE.
SUITE B
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(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 FTH / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
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DATE - 8/16/2018

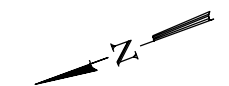
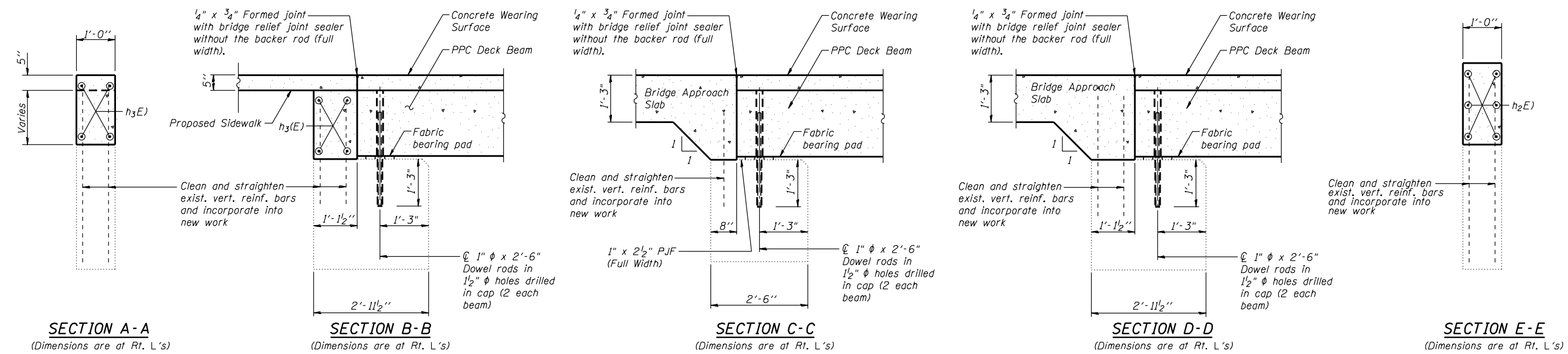
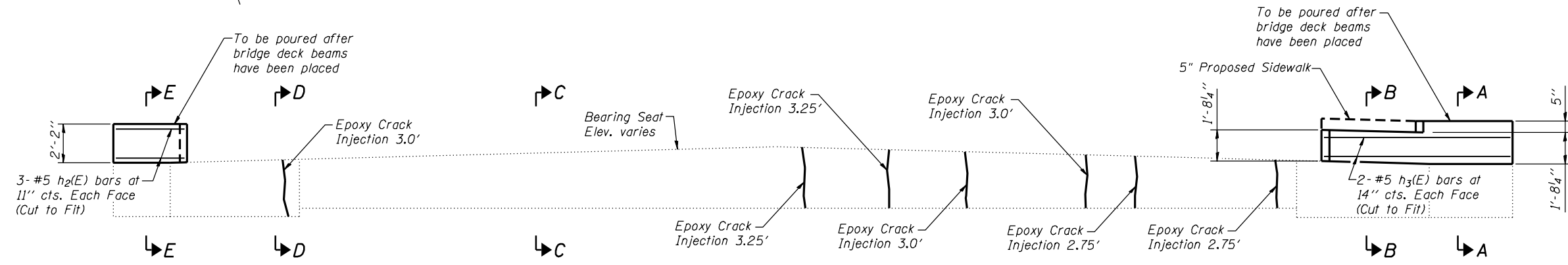
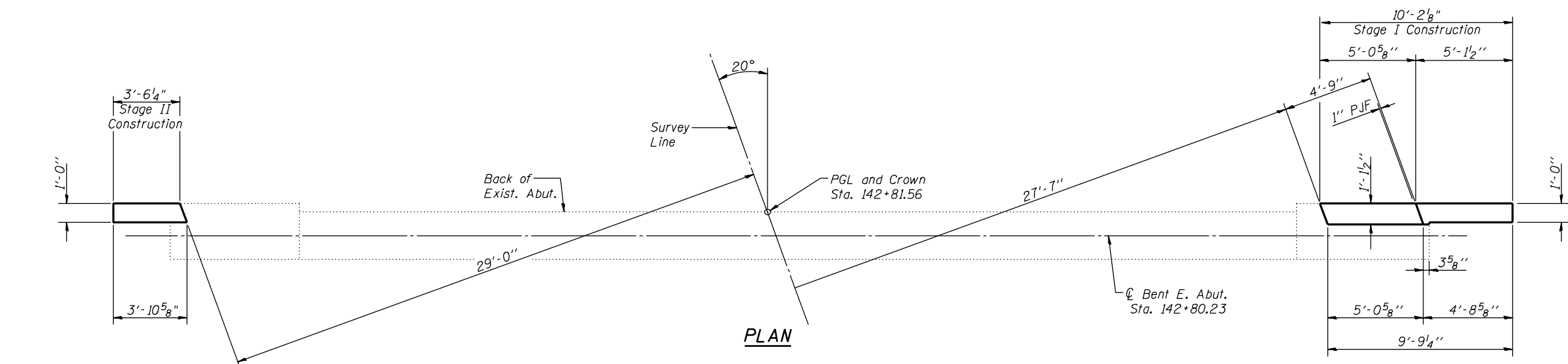
REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
EAST ABUTMENT CONCRETE REMOVAL**

SCALE: SHEET 19 OF 23 SHEETS STA. TO STA.

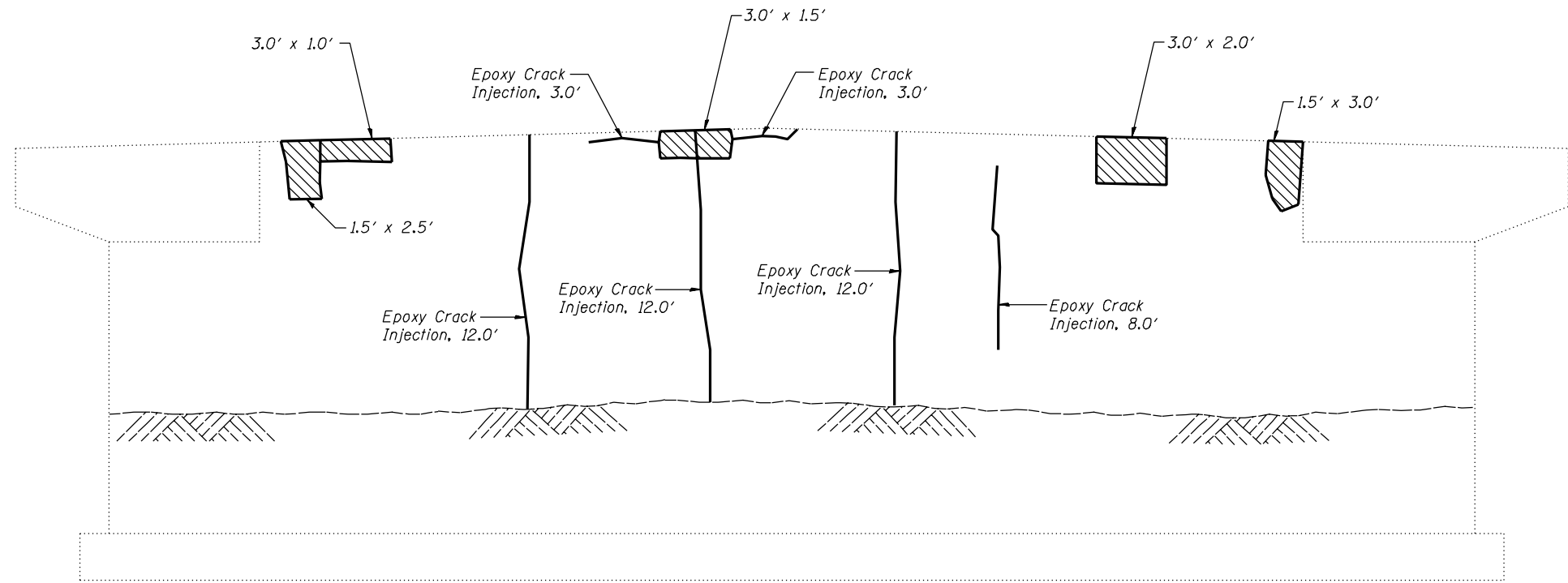
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	58
STRUCTURE NO. 058-3035			CONTRACT NO. 95841	
ILLINOIS FED. AID PROJECT				



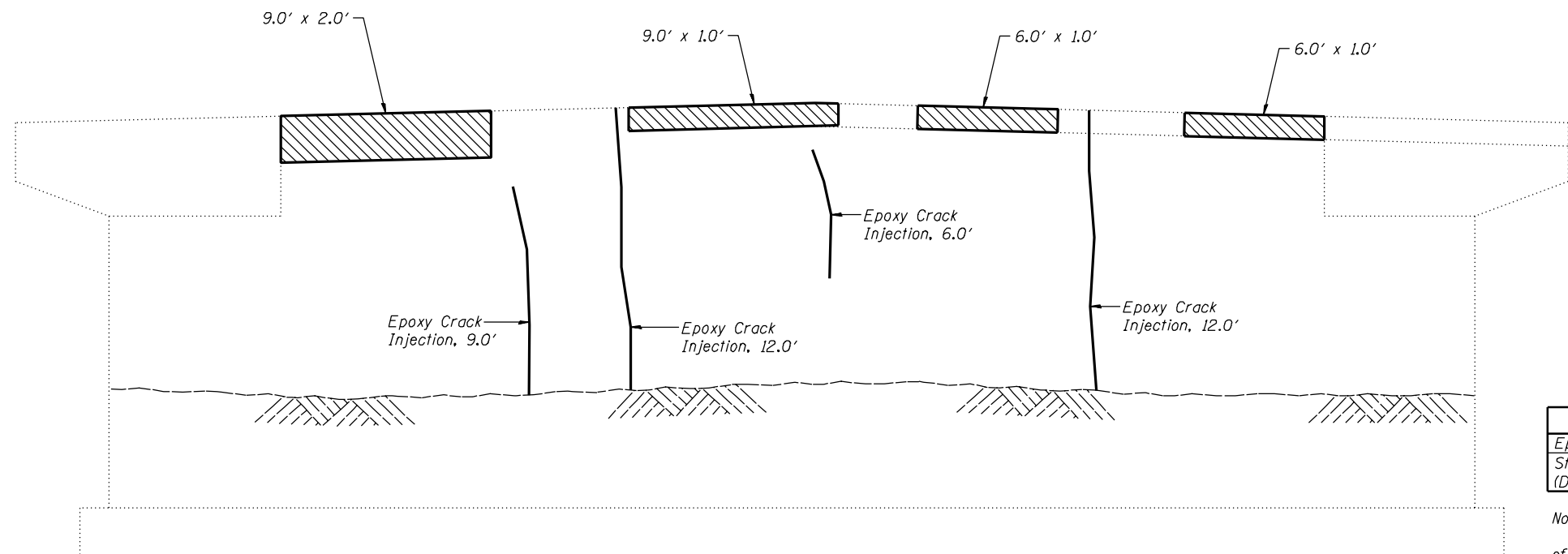
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	6	#5	3'-7"	
h ₃ (E)	4	#5	9'-10"	
Concrete Removal			Cu. Yd.	1.2
Concrete Structures			Cu. Yd.	1.1
Reinforcement Bars, Epoxy Coated			Pound	70
Epoxy Crack Injection			Foot	42
Asbestos Bearing Pad Removal			Each	13

Notes:
 Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Note that repair lengths shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.
 If existing reinforcement bars are damaged during concrete removal and are not able to be re-used, new #5 bars shall be drilled and grouted into abutment cap with 15" minimum embedment. Within Bridge Approach Slab limits, the new bars shall reach mid depth of approach slab and have 90° hook with 12" hook length. Cost included with Concrete Removal.



ELEVATION
(Looking West)

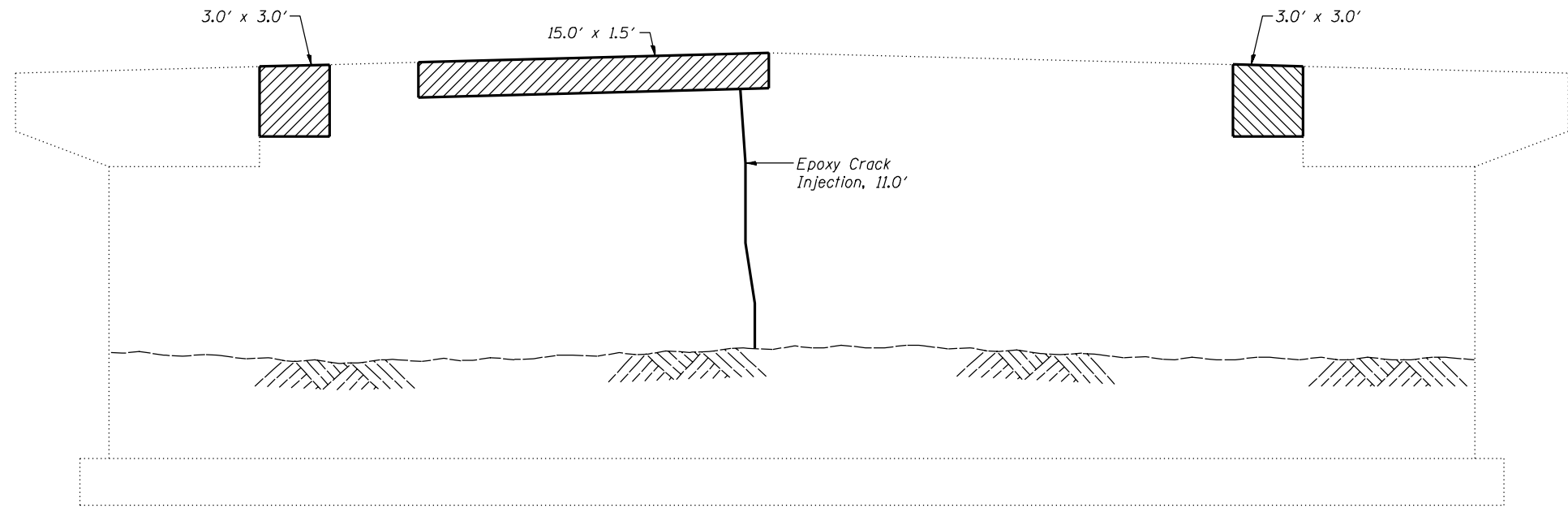


ELEVATION
(Looking East)

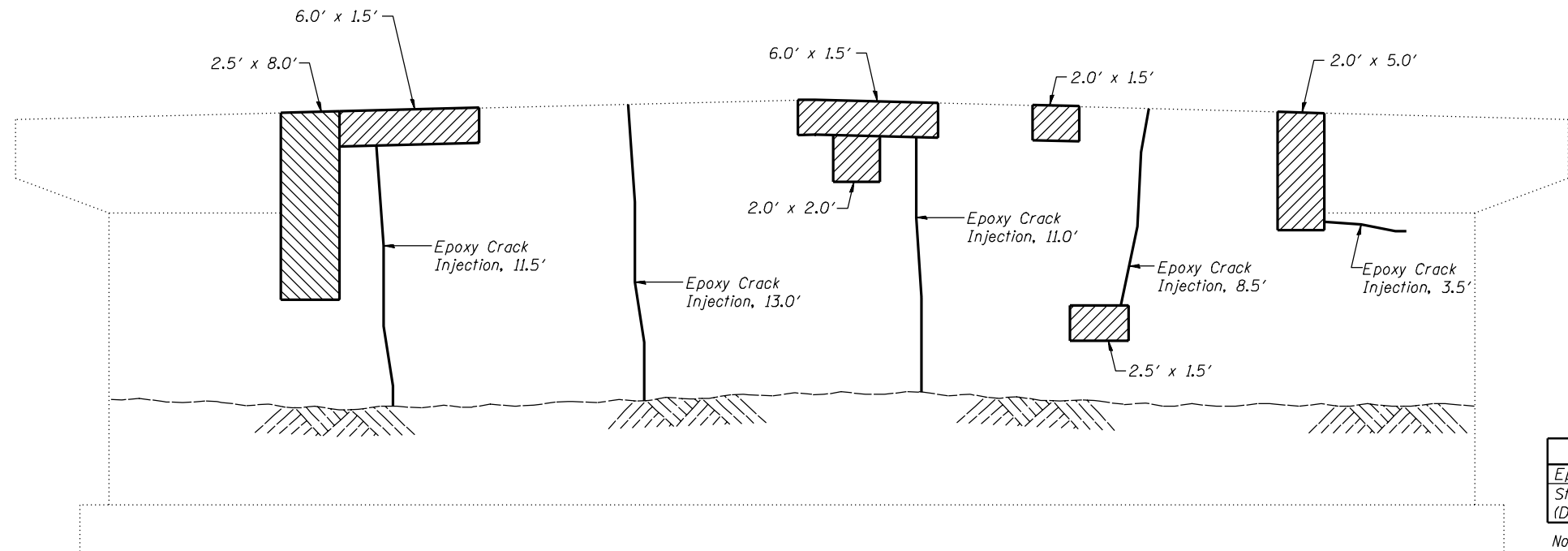
BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	178
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	122

Notes:
Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



ELEVATION
(Looking West)

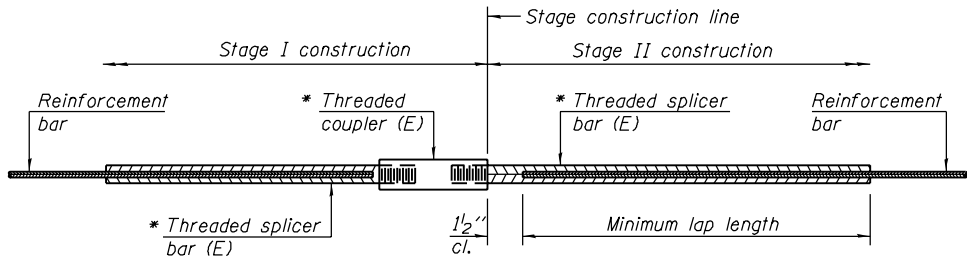


ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	118
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	200

Notes:
Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Note that lengths and areas shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.

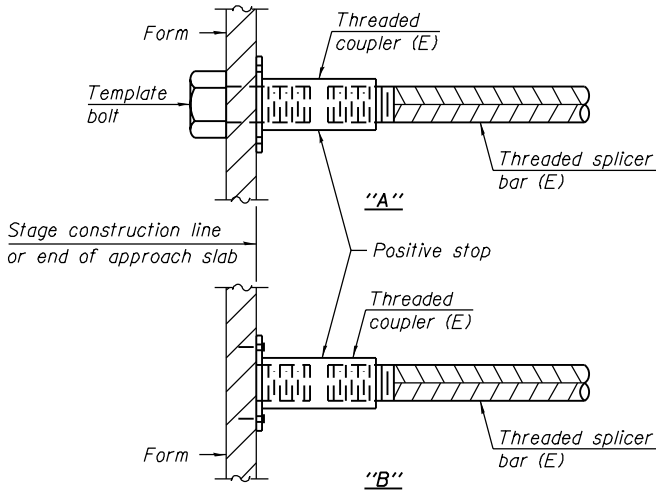


STANDARD BAR SPLICER ASSEMBLY

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

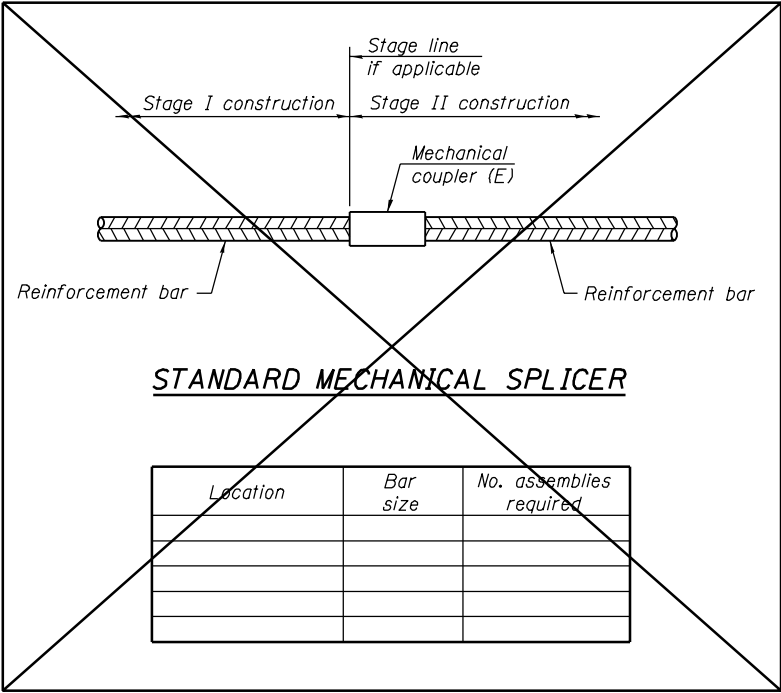
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#4	93	2'-5"
Approach Slab	#5	172	3'-4"
Approach Slab	#8	122	5'-11"



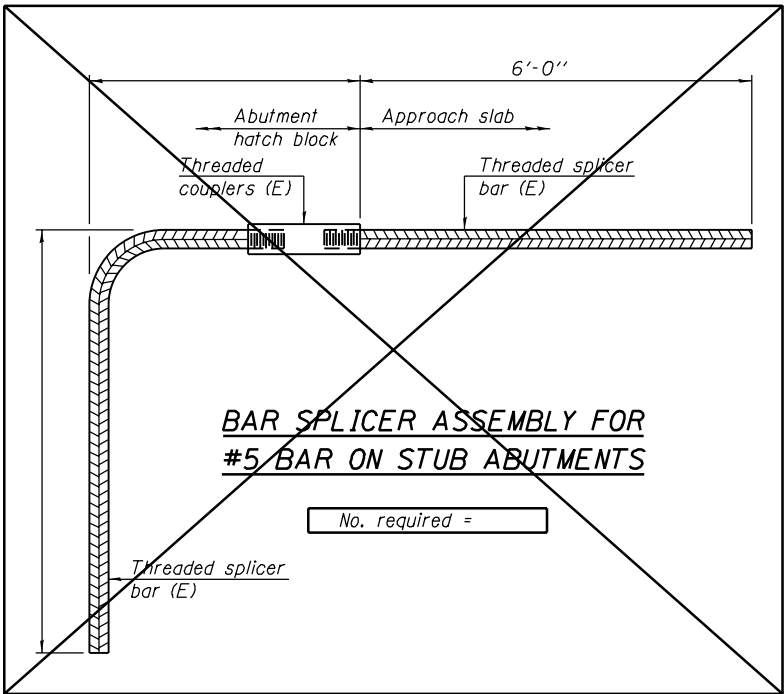
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

NOTES

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

BSD-1

2-17-2017

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 ft/in / in.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 8/16/2016

REVISED -
REVISED -
REVISED -
REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SCALE: SHEET 23 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	62
STRUCTURE NO. 058-3035		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURE (SN 058-3036):

Built as FAS 1546, Section 44B in 1964, rebuilt and widened as FAU Route 7359, Section 83-00103-01-BR in 1989 using three spans, 21" precast, prestressed concrete deck beams, 118'-9 1/4" end to end of deck, 72'-2" out to out of deck on solid reinforced concrete piers on spread footings and pile bent spill-thru abutments. Beams No. 1 thru 23 in all three spans to be removed and replaced with a PPC deck beam superstructure with concrete wearing surface.

Traffic to be maintained utilizing stage construction. Closed for pedestrians and bicycles during Stage I.

Salvage: Parapet and Bicycle Railing

BENCHMARK:

N.E. Corner of Inlet Frame at Back of Curb
Sta. 177+71.39, 44.61' Rt.
Elev. = 656.35

LOADING HL-93

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

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design
Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION-LRFD)

f'c = 3,500 p.s.i.
f'c = 4,000 p.s.i. (Bridge Approach Slab & CWS)
fy = 60,000 p.s.i. (reinforcement)

FIELD UNITS (EXIST. CONSTRUCTION-ASD)

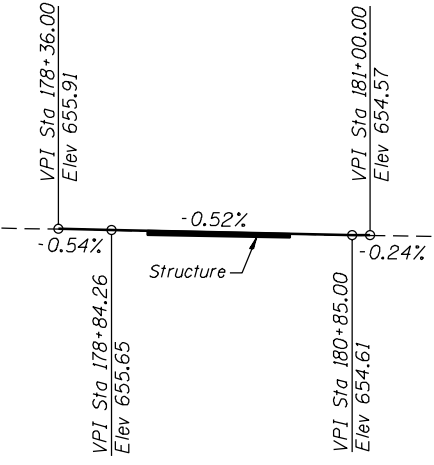
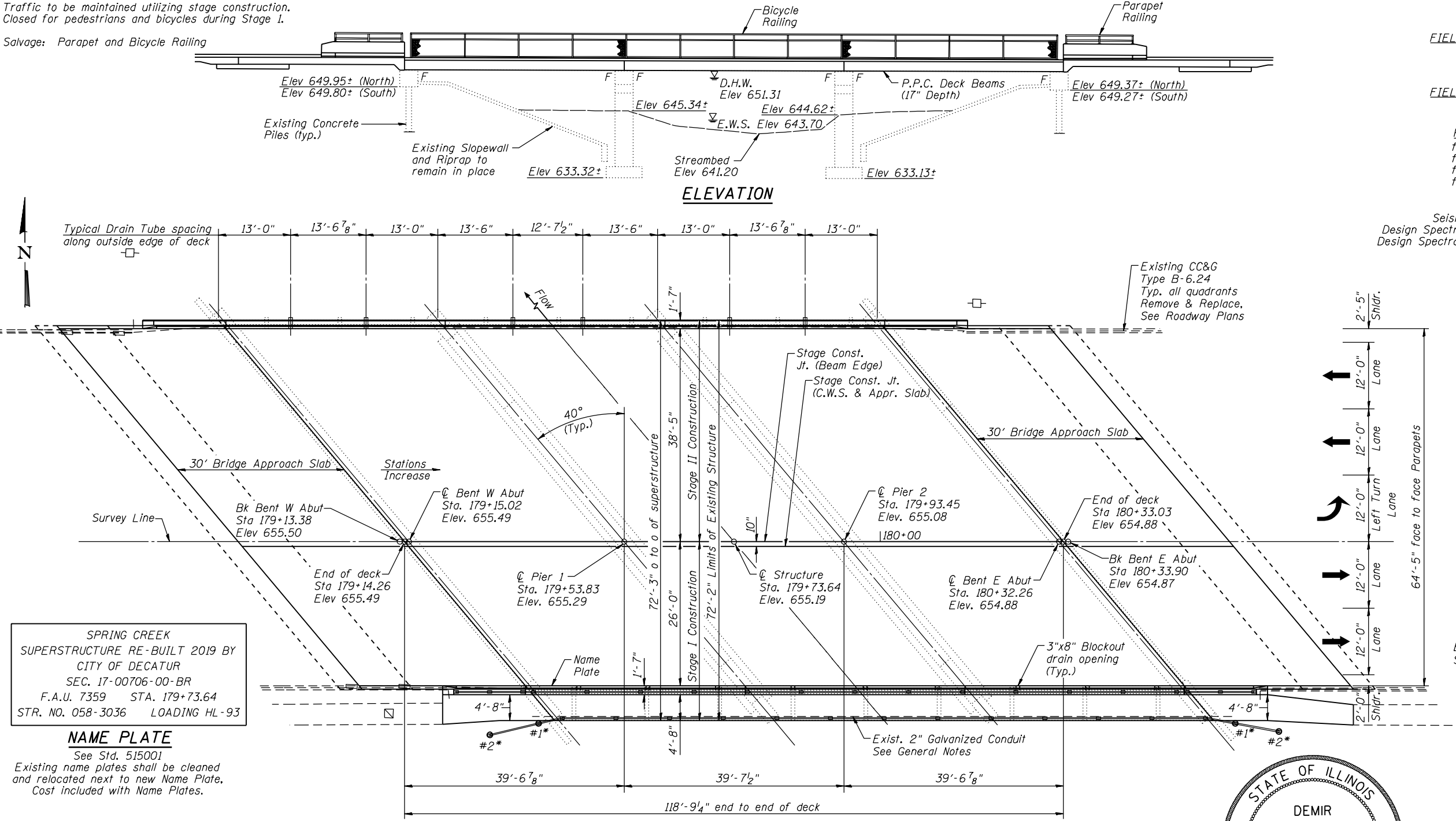
fc = 1,400 p.s.i. (substructure)
fs = 20,000 p.s.i. (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 p.s.i.
f'ci = 5,000 p.s.i.
f's = 270,000 p.s.i. (1/2" ϕ low-relaxation strands)
f'si = 201,960 p.s.i. (1/2" ϕ low-relaxation strands)

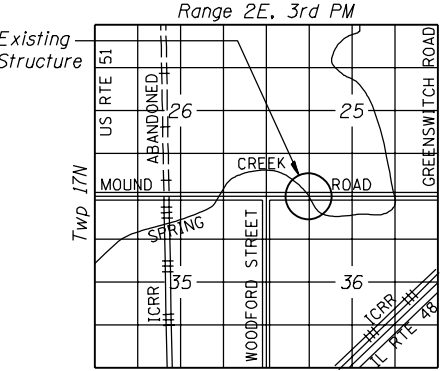
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.151g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.272g
Soil Site Class = D



PROFILE GRADE

(Along Mound Road Survey Line)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MOUND ROAD OVER SPRING CREEK
FAU 7359 - SECTION 17-00706-00-BR

MAON COUNTY

STATION 179+73.64

STRUCTURE NO. 058-3036

SPRING CREEK
SUPERSTRUCTURE RE-BUILT 2019 BY
CITY OF DECATUR
SEC. 17-00706-00-BR
F.A.U. 7359 STA. 179+73.64
STR. NO. 058-3036 LOADING HL-93

NAME PLATE

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

WATERWAY INFORMATION

Drainage Area = 21.8 Sq. Mi.			Existing Low Grade Elev. 653.42 @ Sta. 186+50.00						
			Proposed Low Grade Elev. 653.42 @ Sta. 186+50.00						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1,810	459	459	650.51	0.48	0.48	650.99	650.99
Design	30	2,452	528	528	651.31	0.62	0.62	651.93	651.93
Base	100	3,200	595	597	652.10	0.87	0.82	652.97	652.92
Max. Calc.	500	4,240	604	611	653.03	1.78	1.73	654.81	654.76

30 year velocity through existing bridge = 4.91 fps
30 year velocity through proposed bridge = 4.91 fps

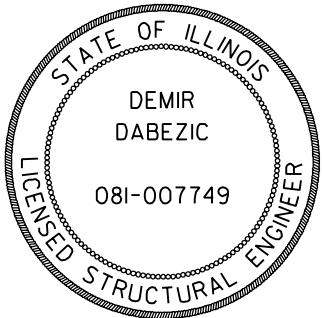
DESIGN SCOUR ELEVATION TABLE

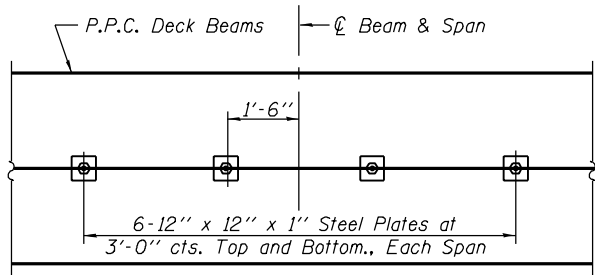
Event / Limit	Design Scour Elevations (ft.)				Item I13
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	649.95	633.32	633.13	649.37	5
Design	649.95	633.32	633.13	649.37	
Check	649.95	633.32	633.13	649.37	

Demir Dabecic 10/04/2018.

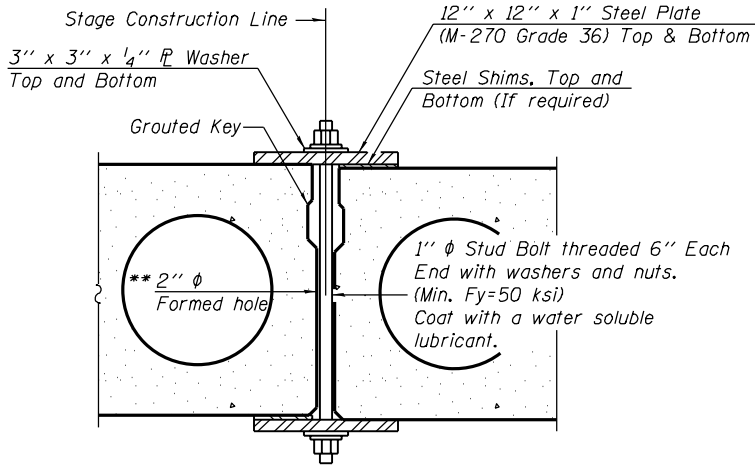
DEMIR DABEZIC
IL STRUCTURAL NO. 7749
EXPIRES: 11/30/2018

I CERTIFY THAT TO THE BEST OF KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

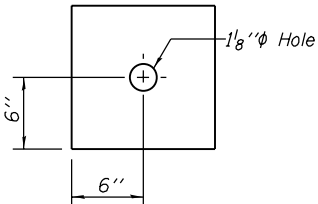




PLAN



SECTION



CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.

See Stage Construction Details for traffic lanes.

** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

GENERAL NOTES:

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.

Reinforcement bars designated (E) shall be epoxy coated.

All Construction joints shall be bonded.

Slipforming of parapets is not allowed.

Existing 2" ϕ galvanized conduit on pipe hanger assemblies shall be removed from the underside of bridge sidewalk during Stage 1 sidewalk removal on bridge. New conduit shall be installed and attached to bridge sidewalk as shown on Sht. 39 of 85. The costs associated with this work shall be paid for at the contract unit price per Foot for Remove and Reinstall Electric Cable From Conduit and at the contract unit price per Foot for Conduit Attached To Structure, 2" Dia., PVC Coated Galvanized Steel. See Special Provisions.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Structural Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier For Stage Construction
- 5 Top of West Approach Slab Elevations
- 6 Top of East Approach Slab Elevations
- 7 Superstructure Details 1
- 8 Superstructure Details 2
- 9 Superstructure Details 3
- 10 Bridge Approach Slab Details
- 11 Bridge Approach Slab Details
- 12 Bicycle Railing
- 13 17"x36" PPC Deck Beam
- 14 17"x36" PPC Deck Beam Details
- 15 17"x48" PPC Deck Beam
- 16 17"x48" PPC Deck Beam Details
- 17 West Abutment Concrete Removal
- 18 West Abutment Repairs
- 19 East Abutment Concrete Removal
- 20 East Abutment Repairs
- 21 Pier 1 Repairs
- 22 Pier 2 Repairs
- 23 Bar Splicer Assembly and Mechanical Splicer Details

TOTAL BILL OF MATERIAL - 058-3036

Pay Item	Unit	Total
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu. Yd.	2.8
Concrete Structures	Cu. Yd.	55.4
Concrete Superstructure	Cu. Yd.	35.0
Bridge Deck Grooving	Sq. Yd.	1,241
Protective Coat	Sq. Yd.	1,534
Concrete Superstructure (Approach Slab)	Cu. Yd.	191.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	8,414
Reinforcement Bars, Epoxy Coated	Pound	107,150
Bar Splicers	Each	414
Parapet Railing	Foot	144
Name Plates	Each	1
Epoxy Crack Injection	Foot	240
Asbestos Bearing Pad Removal	Each	28
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	546
Concrete Wearing Surface (Variable Depth)	Sq. Yd.	954
Bicycle Railing, Special	Foot	143

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 F.T. / IN.
PLOT DATE = 10/8/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 7/18/2018

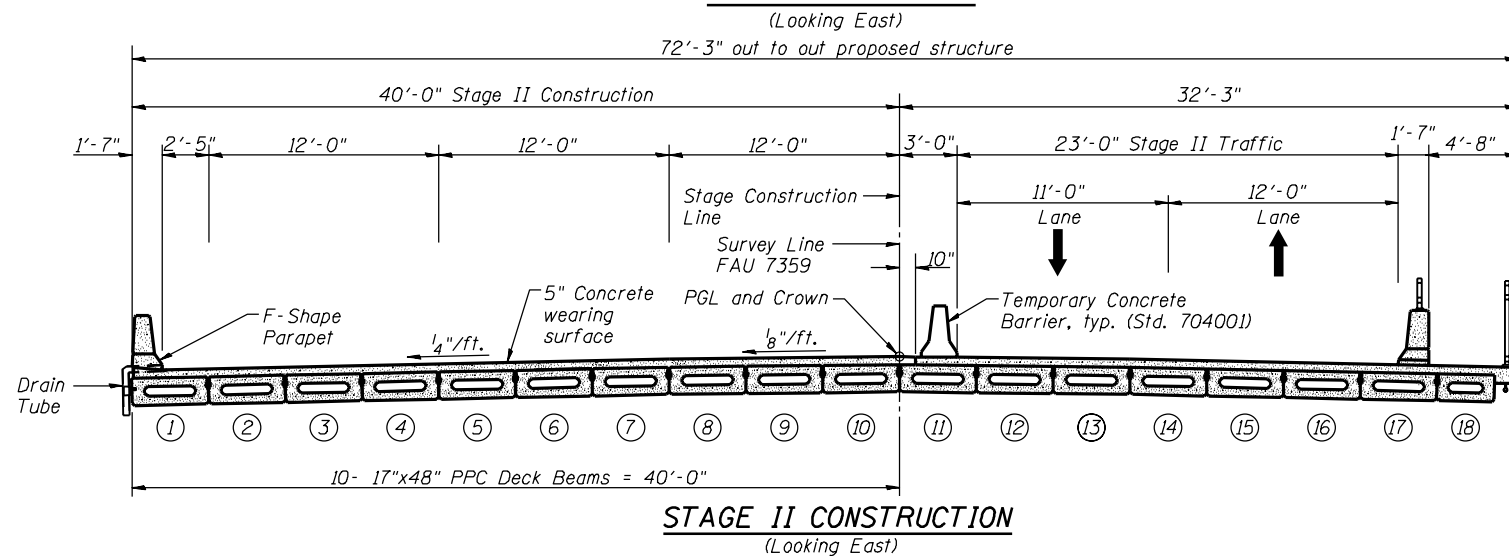
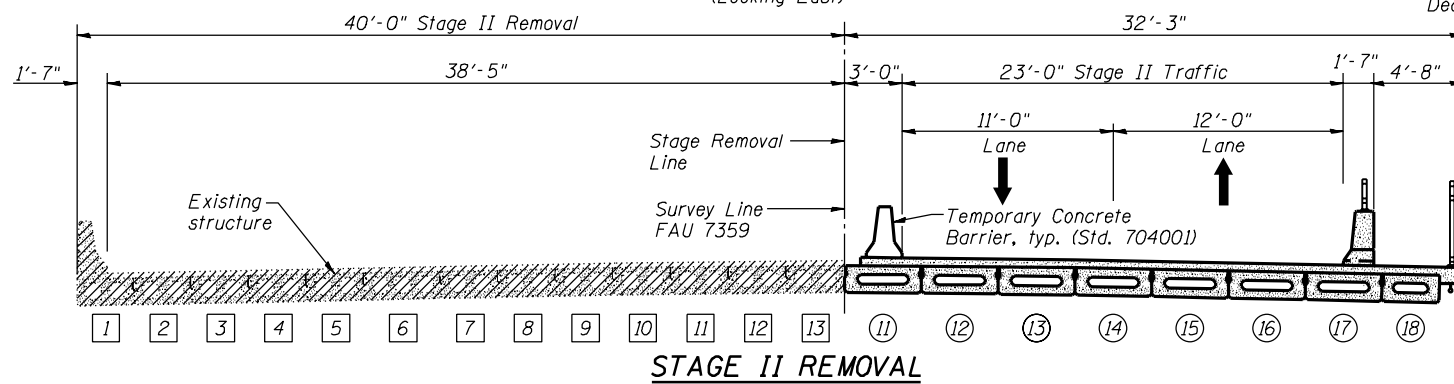
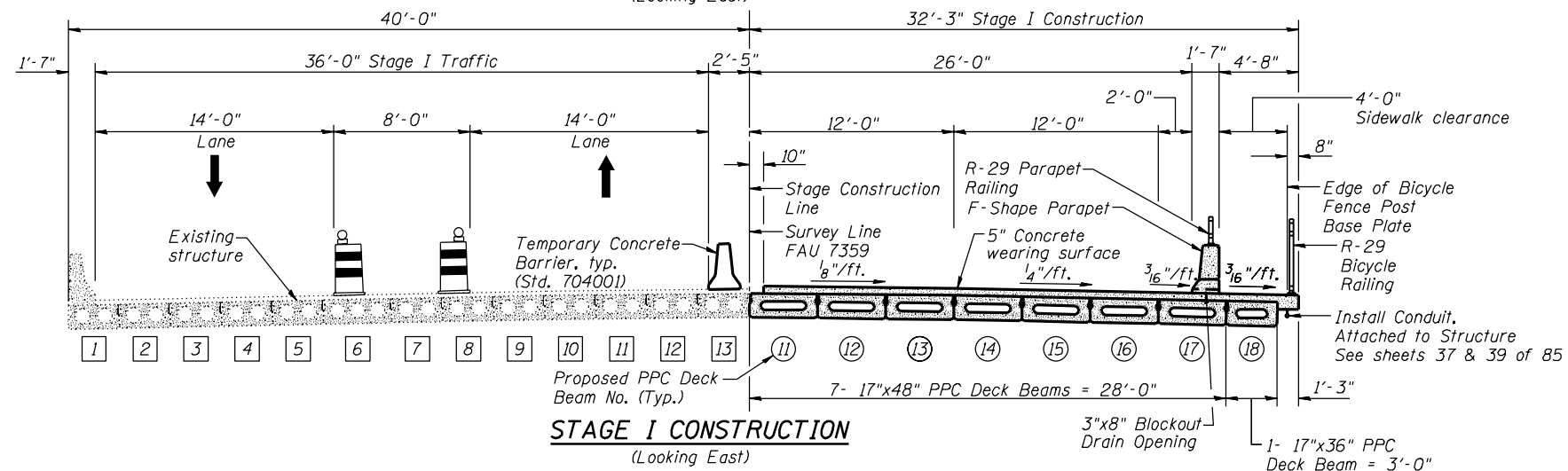
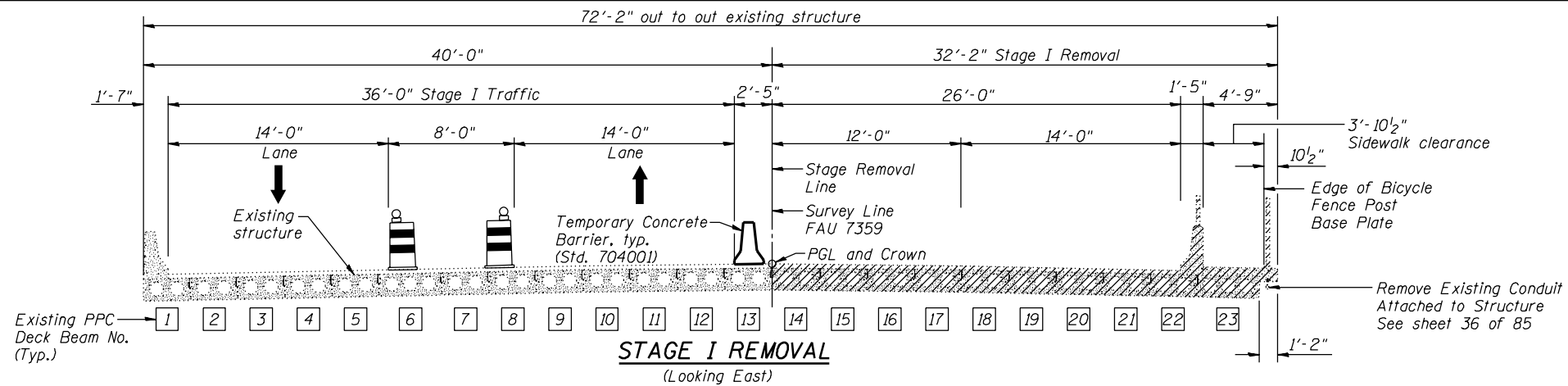
REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
GENERAL STRUCTURAL DATA**

SCALE: SHEET 2 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	64
STRUCTURE NO. 058-3036			CONTRACT NO. 95841	
ILLINOIS FED. AID PROJECT				



AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DESIGNED - MJP
DRAWN - BKN
PLOT SCALE = 20:1 FTH / IN.
CHECKED - DD
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 7/18/2018

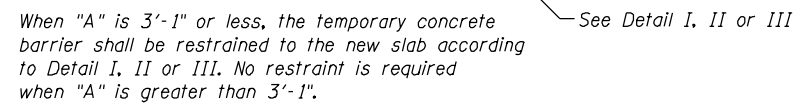
REVISED -
REVISED -
REVISED -
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

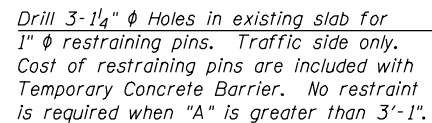
**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
STAGE CONSTRUCTION DETAILS**

SCALE: SHEET 3 OF 23 SHEETS STA. TO STA.

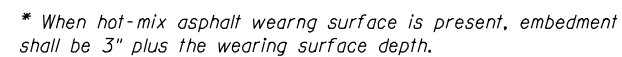
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	65
STRUCTURE NO. 058-3036			CONTRACT NO. 95841	
ILLINOIS FED. AID PROJECT				



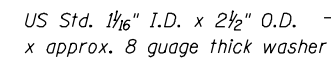
NEW SLAB OR NEW DECK BEAM



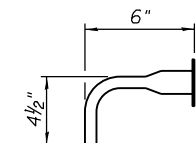
EXISTING SLAB



EXISTING DECK BEAM



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III



Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate $\frac{1}{4}$ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

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

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

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	178+52.02	-38.42	655.17
A	178+62.02	-38.42	655.10
B	178+72.02	-38.42	655.04
E. End of W. Appr.	178+82.02	-38.42	654.99

NORTH EDGE OF TWO-WAY LEFT TURN LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	178+74.19	-12.00	655.58
A	178+84.19	-12.00	655.53
B	178+94.19	-12.00	655.47
E. End of W. Appr.	179+04.19	-12.00	655.42

PGL & CROWN

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	178+84.26	0.00	655.65
A	178+94.26	0.00	655.60
B	179+04.26	0.00	655.55
E. End of W. Appr.	179+14.26	0.00	655.49

STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	178+84.96	0.83	655.64
A	178+94.96	0.83	655.59
B	179+04.96	0.83	655.53
E. End of W. Appr.	179+14.96	0.83	655.48

SOUTH EDGE OF NORTH EASTBOUND LANE

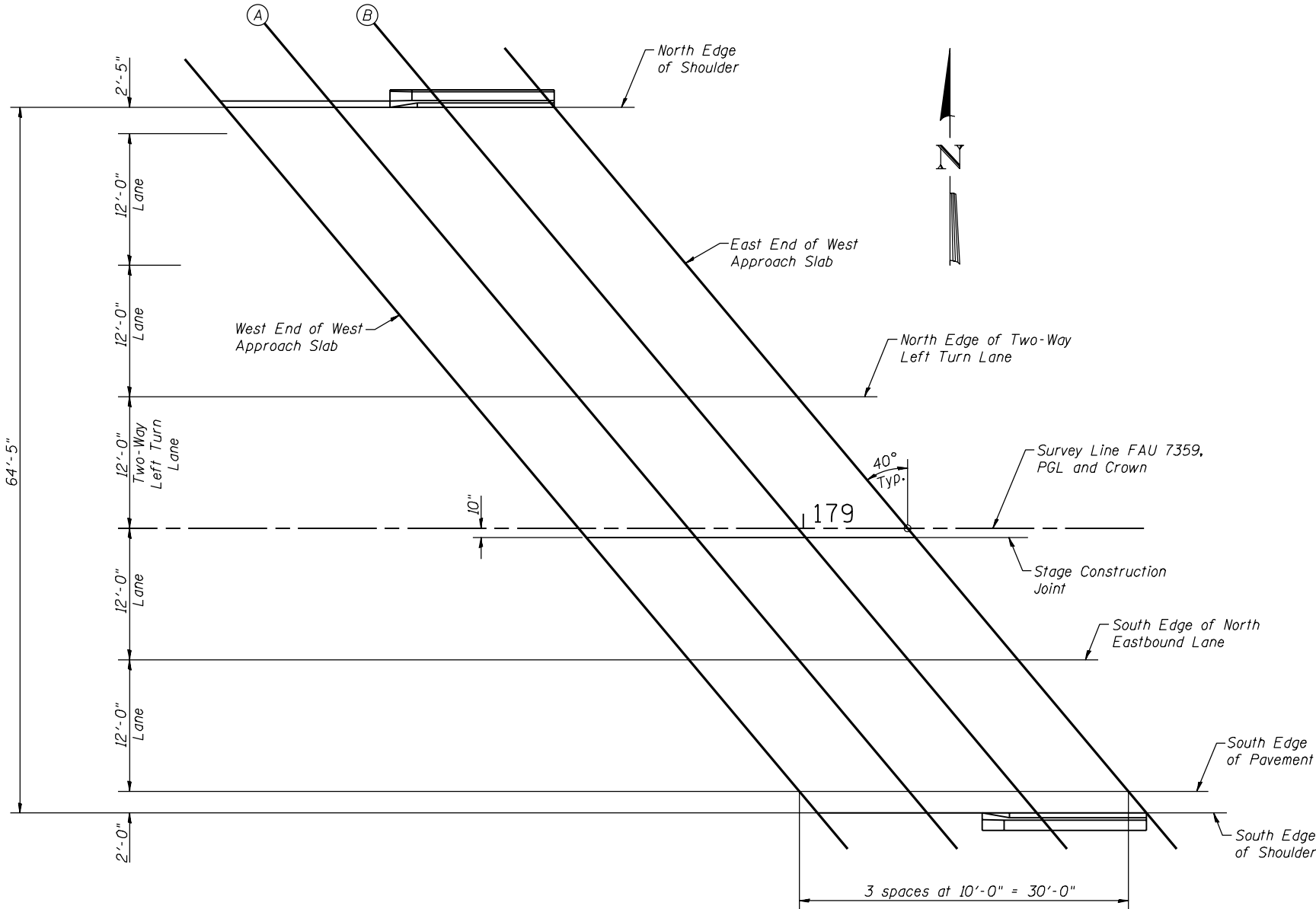
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	178+94.33	12.00	655.47
A	179+04.33	12.00	655.42
B	179+14.33	12.00	655.37
E. End of W. Appr.	179+24.33	12.00	655.32

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	179+04.40	24.00	655.17
A	179+14.40	24.00	655.12
B	179+24.40	24.00	655.07
E. End of W. Appr.	179+34.40	24.00	655.01

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr.	179+06.08	26.00	655.13
A	179+16.08	26.00	655.08
B	179+26.08	26.00	655.03
E. End of W. Appr.	179+36.08	26.00	654.97



PLAN

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson

DESIGNED - MJP

REVISED -

DRAWN - BKN

REVISED -

PLOT SCALE = 20:1 ftn / in.

CHECKED - DD

REVISED -

PLOT DATE = 10/4/2018

DATE - 7/18/2018

REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TOP OF WEST APPROACH SLAB ELEVATIONS

SCALE:

SHEET 5 OF 23 SHEETS

STA.

TO STA.

F.A.U.

RTE.

SECTION

COUNTY

TOTAL

SHEETS

SHEET

NO.

7359

17-00706-00-BR

MACON

85

67

STRUCTURE NO. 058-3036

CONTRACT NO. 95841

ILLINOIS FED. AID PROJECT

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+00.79	-38.42	654.37
A	180+10.79	-38.42	654.32
B	180+20.79	-38.42	654.26
E. End of E. Appr.	180+30.79	-38.42	654.21

NORTH EDGE OF TWO-WAY LEFT TURN LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+22.95	-12.00	654.80
A	180+32.95	-12.00	654.75
B	180+42.95	-12.00	654.70
E. End of E. Appr.	180+52.95	-12.00	654.65

PGL & CROWN

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+33.03	0.00	654.88
A	180+43.03	0.00	654.82
B	180+53.03	0.00	654.77
E. End of E. Appr.	180+63.03	0.00	654.72

STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+33.72	0.83	654.86
A	180+43.72	0.83	654.81
B	180+53.72	0.83	654.76
E. End of E. Appr.	180+63.72	0.83	654.71

SOUTH EDGE OF NORTH EASTBOUND LANE

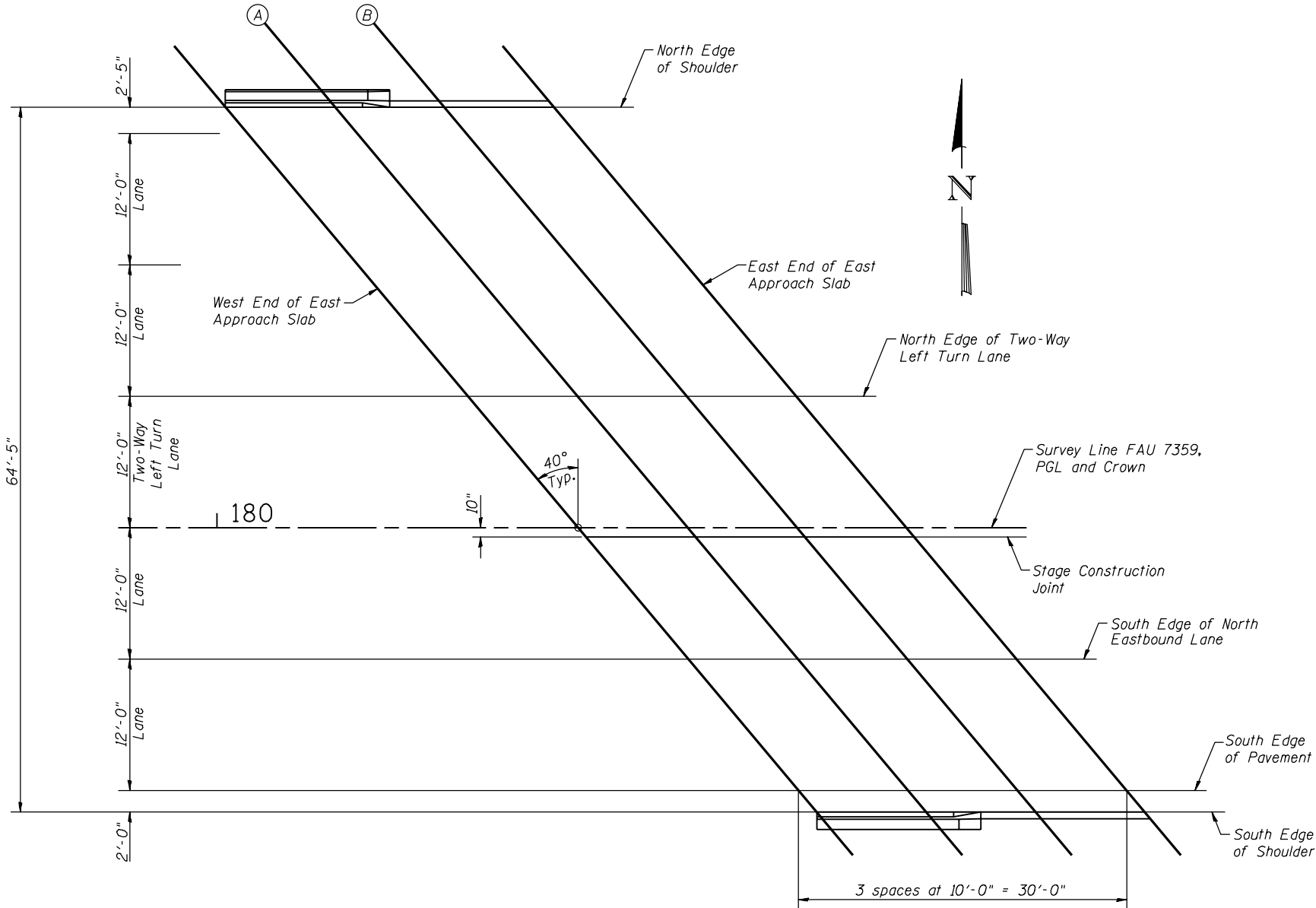
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+43.09	12.00	654.70
A	180+53.09	12.00	654.65
B	180+63.09	12.00	654.60
E. End of E. Appr.	180+73.09	12.00	654.54

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+53.16	24.00	654.40
A	180+63.16	24.00	654.34
B	180+73.16	24.00	654.29
E. End of E. Appr.	180+83.16	24.00	654.24

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr.	180+54.84	26.00	654.36
A	180+64.84	26.00	654.30
B	180+74.84	26.00	654.25
E. End of E. Appr.	180+84.84	26.00	654.20



PLAN

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson

DESIGNED - MJP

REVISED -

DRAWN - BKN

REVISED -

PLOT SCALE = 20:1 F.T.M. / IN.

CHECKED - DD

REVISED -

PLOT DATE = 10/4/2018

DATE = 7/18/2018

REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
TOP OF EAST APPROACH SLAB ELEVATIONS

SCALE:

SHEET 6 OF 23 SHEETS

STA.

TO STA.

F.A.U.

RTE.

SECTION

COUNTY

TOTAL

SHEETS

SHEET

NO.

7359

17-00706-00-BR

MACON

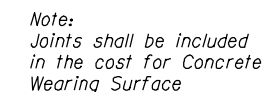
85

68

STRUCTURE NO. 058-3036

CONTRACT NO. 95841

ILLINOIS FED. AID PROJECT



Notes:

See sheets 8 & 9 of 23 for Superstructure Details and Bill of Material.

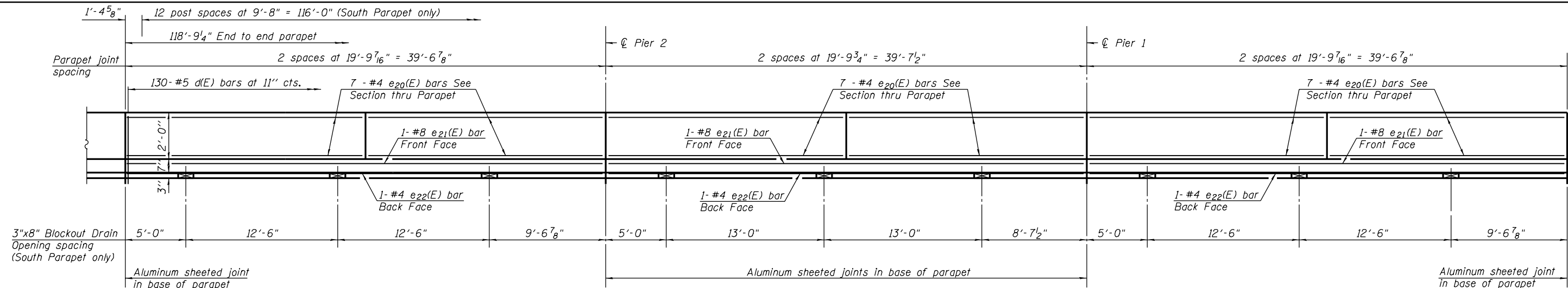
Bars indicated thus 72 x 4- #4 etc., indicates 72 lines of bars with 4 lengths per line.

Spacing of $a_1(E)$, $a_3(E)$, $a_{20}(E)$ and $a_{21}(E)$ bars shall be measured along the ϕ of structure.

See sheet 1 of 23 for Drain Tube spacing along North Parapet.

See sheet 12 of 23 for railing details.

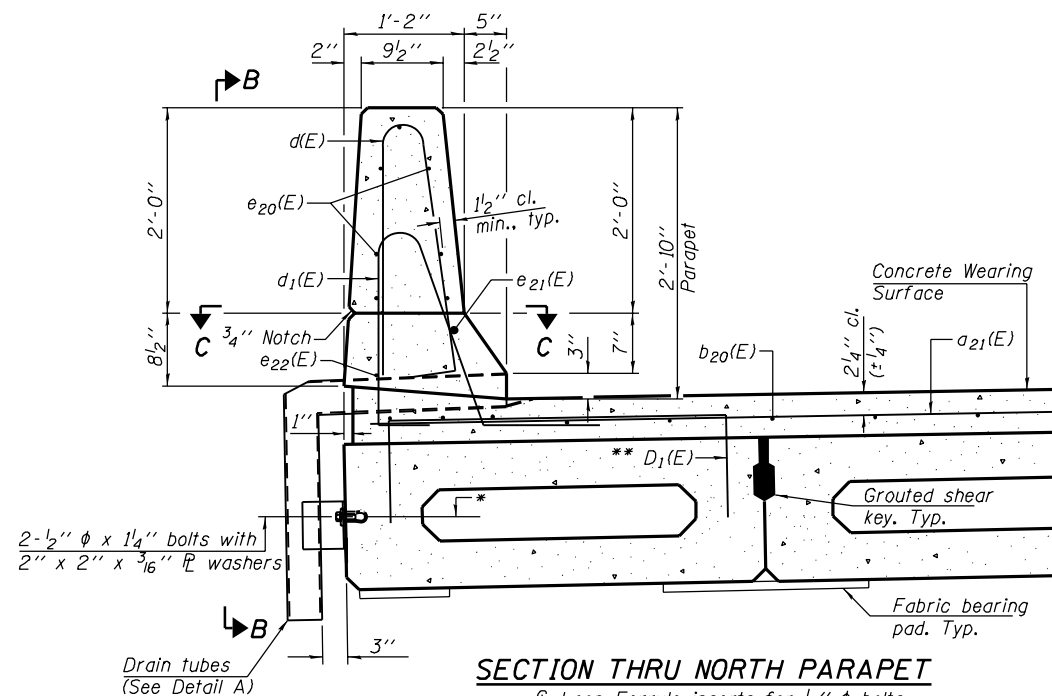
<div><div>AECOM</div><div>345 EAST ASH AVE. SUITE B DECATUR, IL 62526 (217) 875-4800</div></div>	USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -	CITY OF DECATUR, ILLINOIS DEPARTMENT OF PUBLIC WORKS	FAU 7359 (MOUND ROAD) OVER SPRING CREEK SUPERSTRUCTURE DETAILS 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BKN	REVISED -			7359	17-00706-00-BR	MACON	85	69
	PLOT SCALE = 20x0 ftein / in.	CHECKED - DD	REVISED -			STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
	PLOT DATE = 10/4/2018	DATE - 7/18/2018	REVISED -			SCALE:	SHEET 7 OF 23 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



INSIDE ELEVATION OF PARAPET

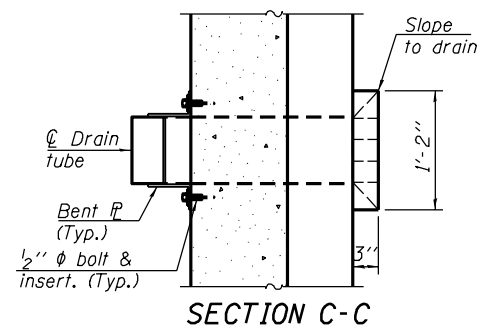
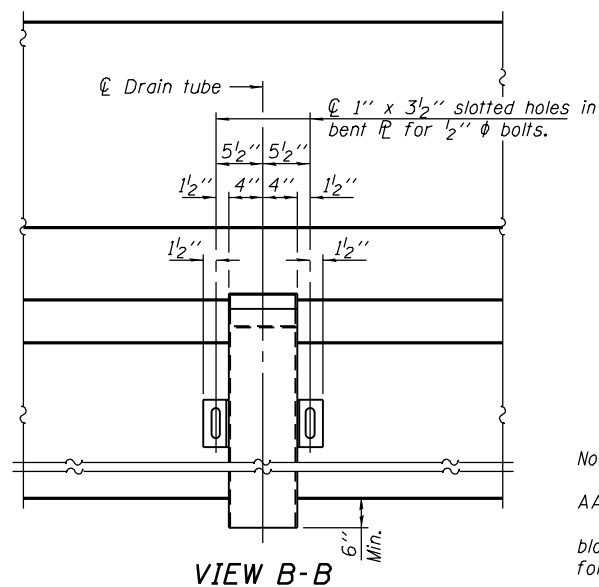
(South Parapet shown, North Parapet similar)

Notes:
 All concrete wearing surfaces shall be placed prior to casting approach slabs.
 See sheet 9 of 23 for Detail A.
 See sheet 14 and 16 of 23 for fabric bearing pad details.

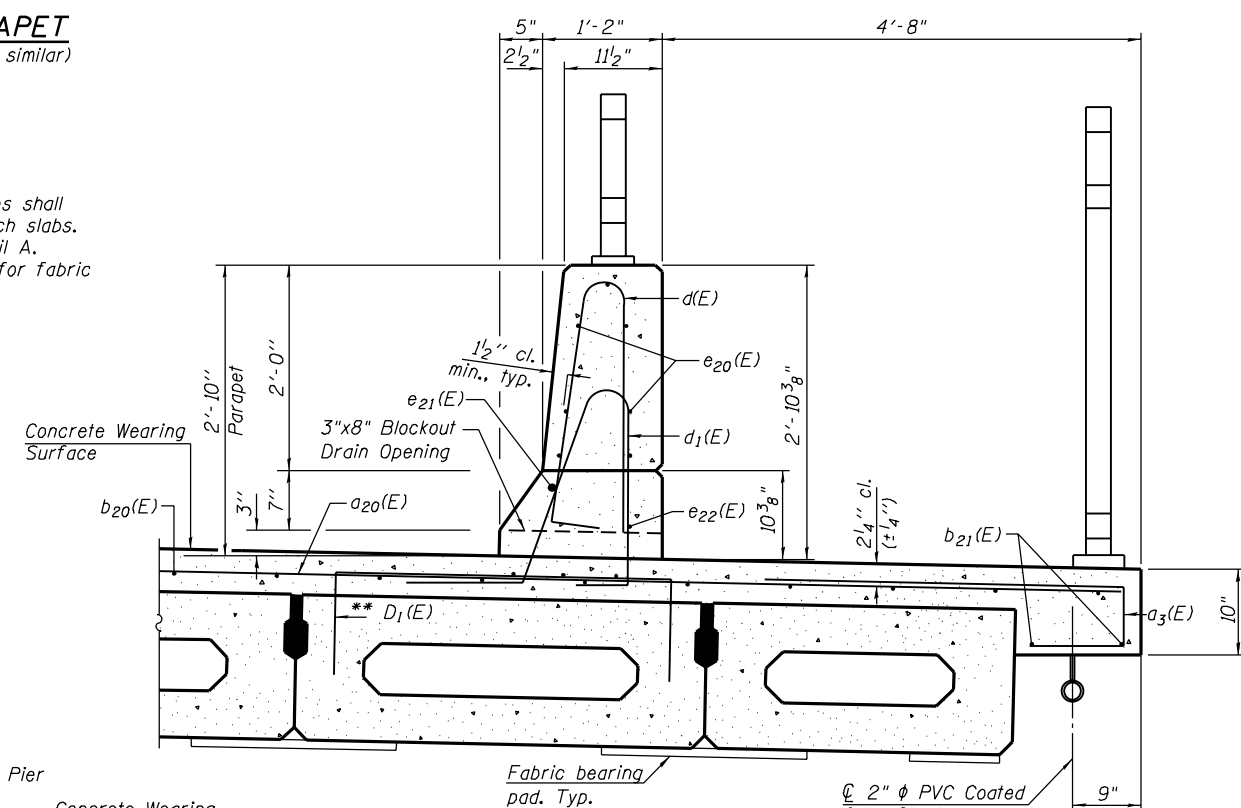


SECTION THRU NORTH PARAPET

- * Loop Ferrule inserts for 1/2" φ bolts. Place at C of beam depth.
- ** Place #4 D₁(E) bars at 9" cts. in North fascia Beam No. 1. D₁(E) bar included in cost of beam.

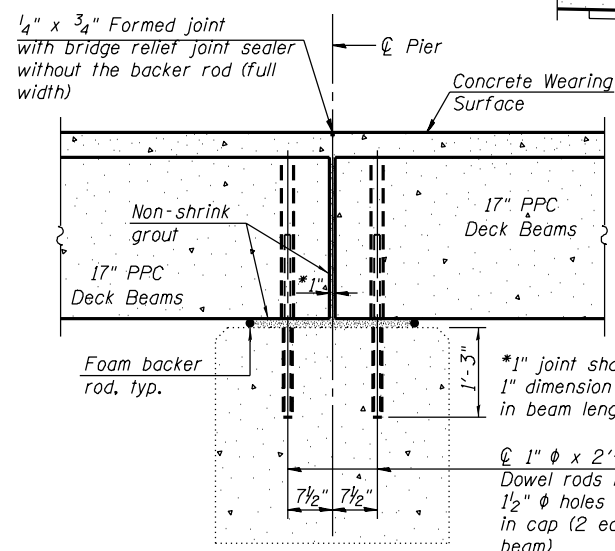


Note:
 All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
 The cost of the drain tube assemblies in North Parapet, 3"x8" blockout drain openings in South Parapet, and everything necessary for their installation is included with Concrete Superstructure.



SECTION THRU SOUTH PARAPET

- ** Place #4 D₁(E) bars at 9" cts. in Beam No. 17. D₁(E) bar included in cost of beam.



SECTION THRU PIERS

(Dimensions are at Rt. L's)
 (For Plan View at Piers, see sheet 14 of 23)

AECOM
 345 EAST ASH AVE.
 SUITE B
 DECATUR, IL 62526
 (217) 875-4800

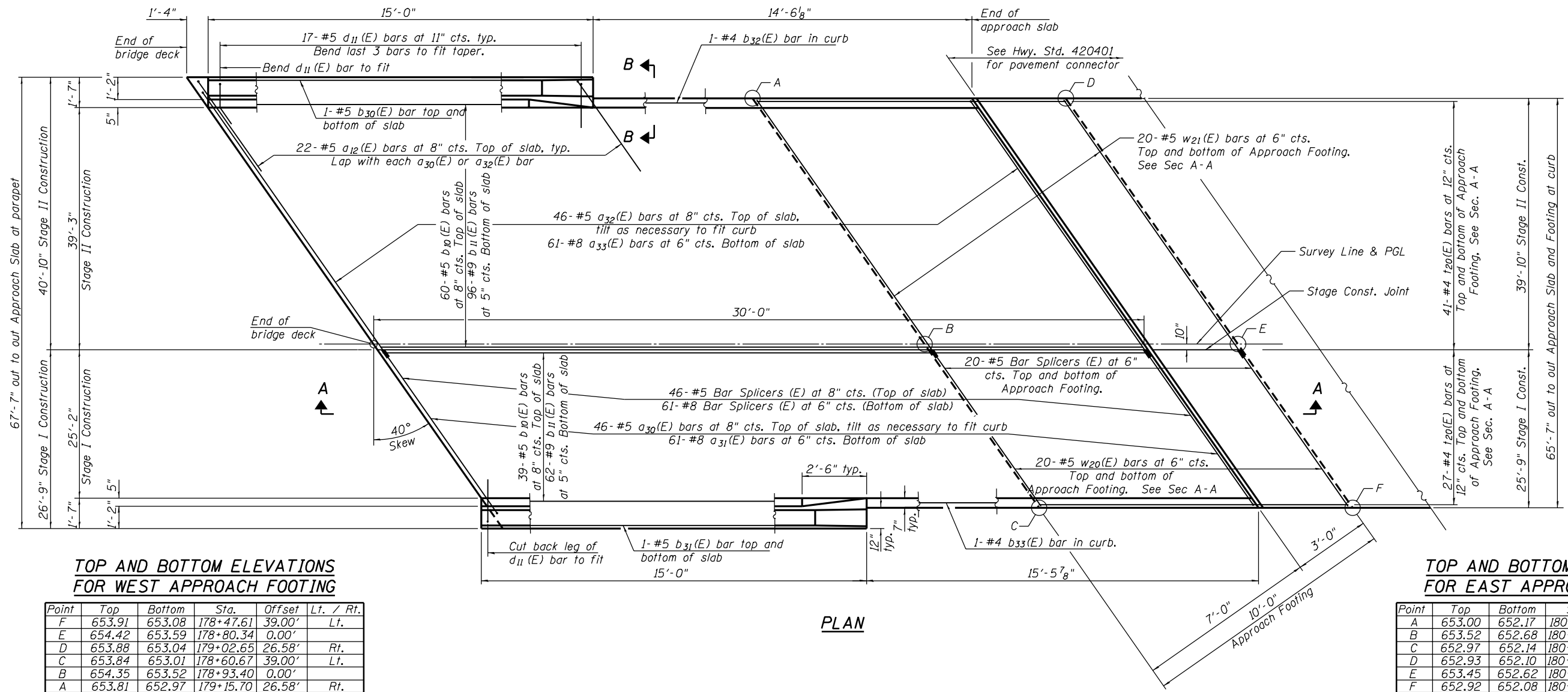
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
PLOT SCALE = 20:0 FTH / IN.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 7/18/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

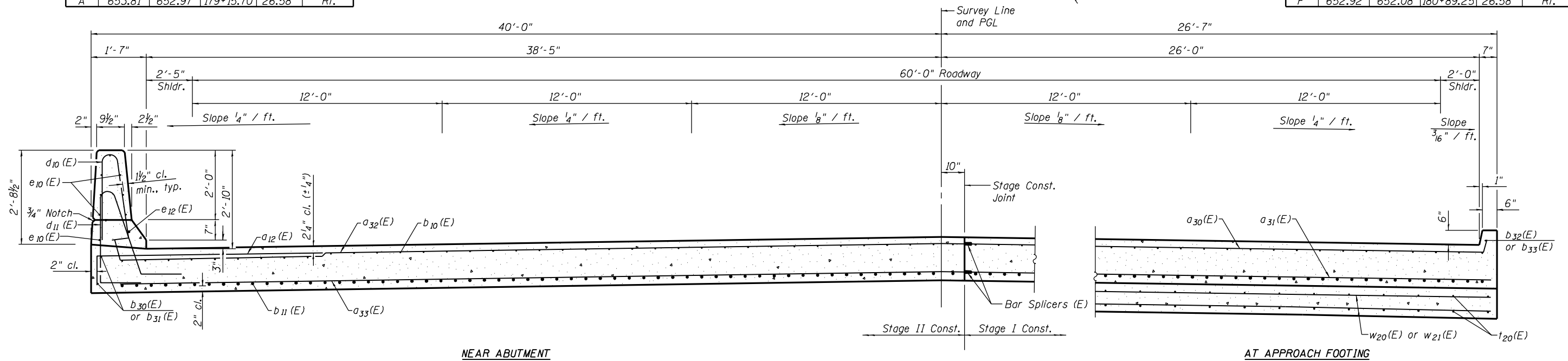
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
SUPERSTRUCTURE DETAILS 2

SCALE: SHEET 8 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	70
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



PLAN



CROSS SECTION
(Looking East)

(Sheet 1 of 2)

AECOM
345 EAST ASH AVE.
SUITE 3
DECATUR, IL 62526
(217) 875-4800

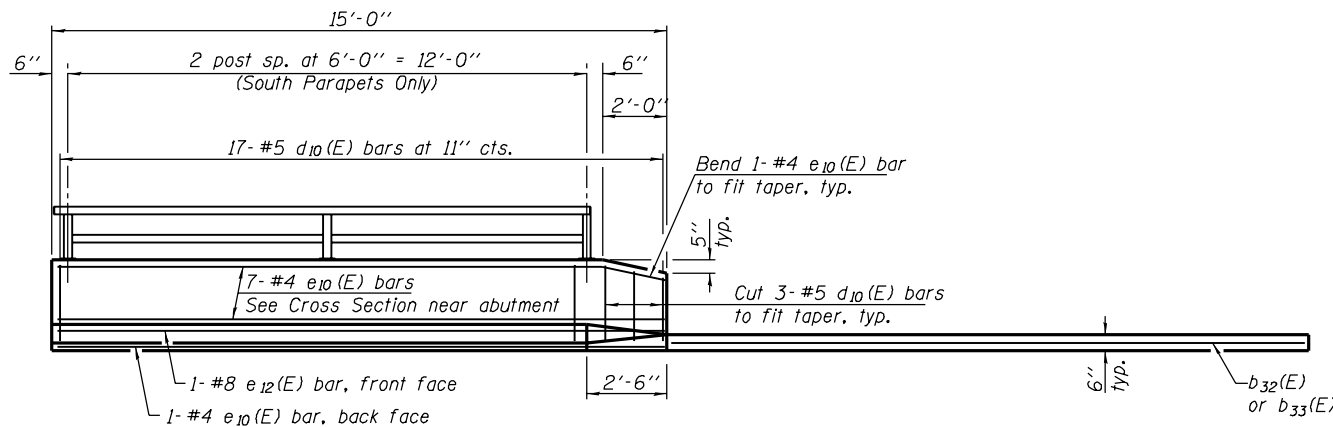
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
DRAWN - BKN	REVISED -	
PLOT SCALE = 20:1 FTH / IN.	CHECKED - DD	REVISED -
PLOT DATE = 10/4/2018	DATE - 7/18/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BRIDGE APPROACH SLAB DETAILS

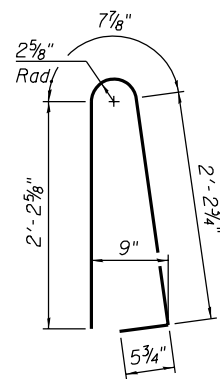
SCALE: SHEET 10 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	72
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				

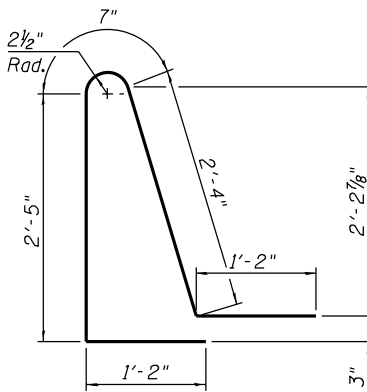


INSIDE ELEVATION OF PARAPET AND CURB
(SW Parapet shown, NW, NE & SE parapets similar)

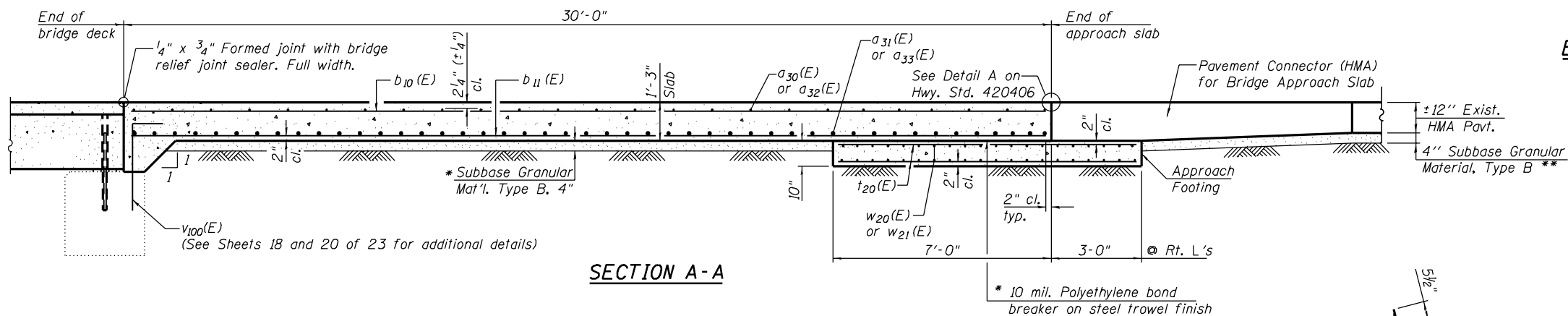
Notes:
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For additional parapet details, see sheet 8 of 23.
For Bar Splicer details, see sheet 23 of 23.
Spacing of a12(E) and a30(E) thru a33(E) bars shall be measured along the ϕ of structure.



BAR d10(E)

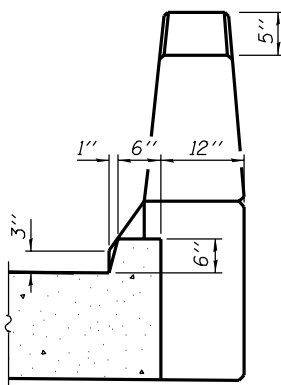


BAR d11(E)

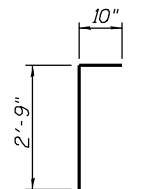


SECTION A-A

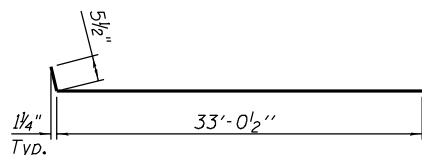
* Cost included with Concrete Superstructure (Approach Slab).
** Cost included with Pavement Connector (HMA) for Bridge Approach Slab



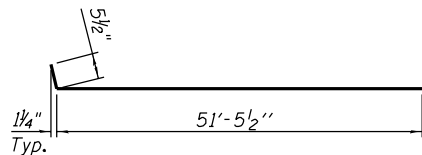
VIEW B-B



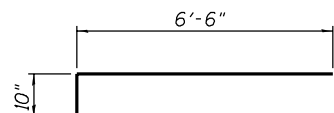
BAR v100(E)



BAR a30(E)



BAR a32(E)



BAR a12(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a12(E)	88	#5	7'-4"	
a30(E)	92	#5	33'-6"	
a31(E)	122	#8	33'-2"	
a32(E)	92	#5	51'-11"	
a33(E)	122	#8	51'-7"	
b10(E)	198	#5	29'-8"	
b11(E)	316	#9	29'-8"	
b30(E)	4	#5	16'-0"	
b31(E)	4	#5	13'-4"	
b32(E)	2	#4	14'-2"	
b33(E)	2	#4	15'-1"	
d10(E)	68	#5	5'-7"	
d11(E)	68	#5	7'-8"	
e10(E)	32	#4	14'-8"	
e12(E)	4	#8	14'-8"	
t20(E)	272	#4	12'-7"	
v100(E)	128	#5	3'-7"	
w20(E)	80	#5	33'-2"	
w21(E)	80	#5	51'-7"	
Concrete Structures		Cu. Yd.	52.9	
Concrete Superstructure		Cu. Yd.	7.1	
Concrete Superstructure (Approach Slab)		Cu. Yd.	191.8	
Bridge Deck Grooving		Sq. Yd.	417	
Protective Coat		Sq. Yd.	472	
Reinforcement Bars, Epoxy Coated		Pound	85,890	
Bar Splicers		Each	294	

(Sheet 2 of 2)

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 F.T. / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
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DATE - 7/18/2018

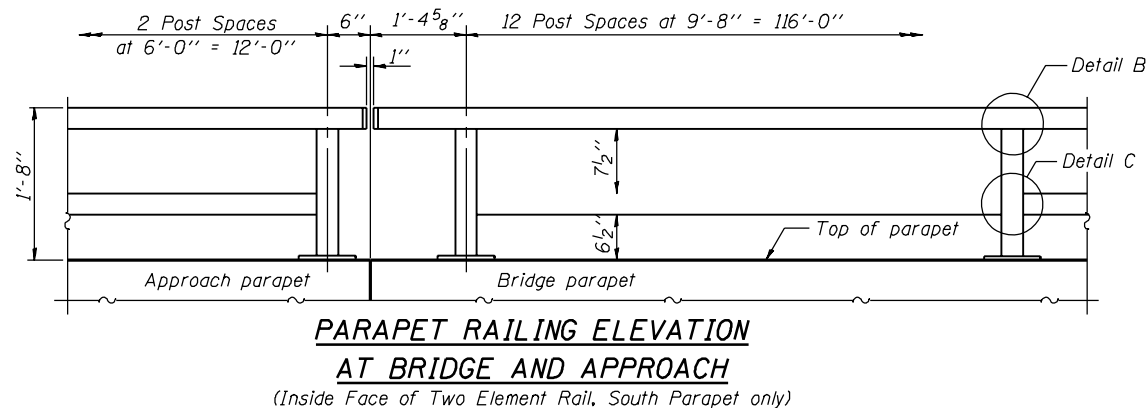
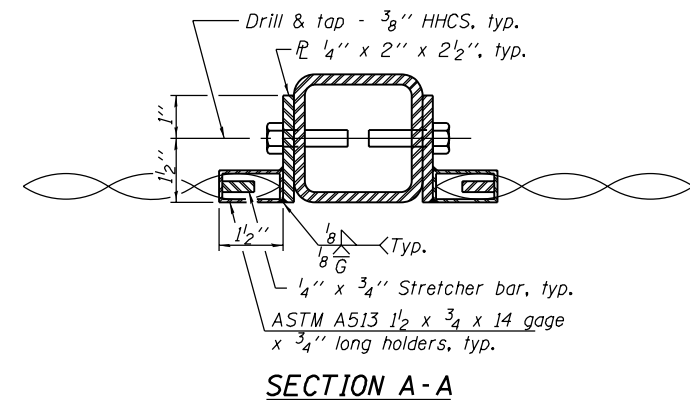
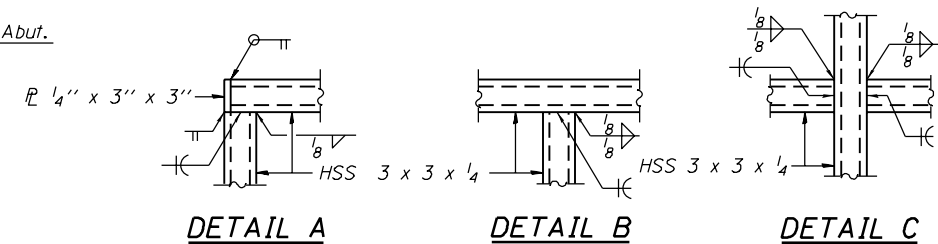
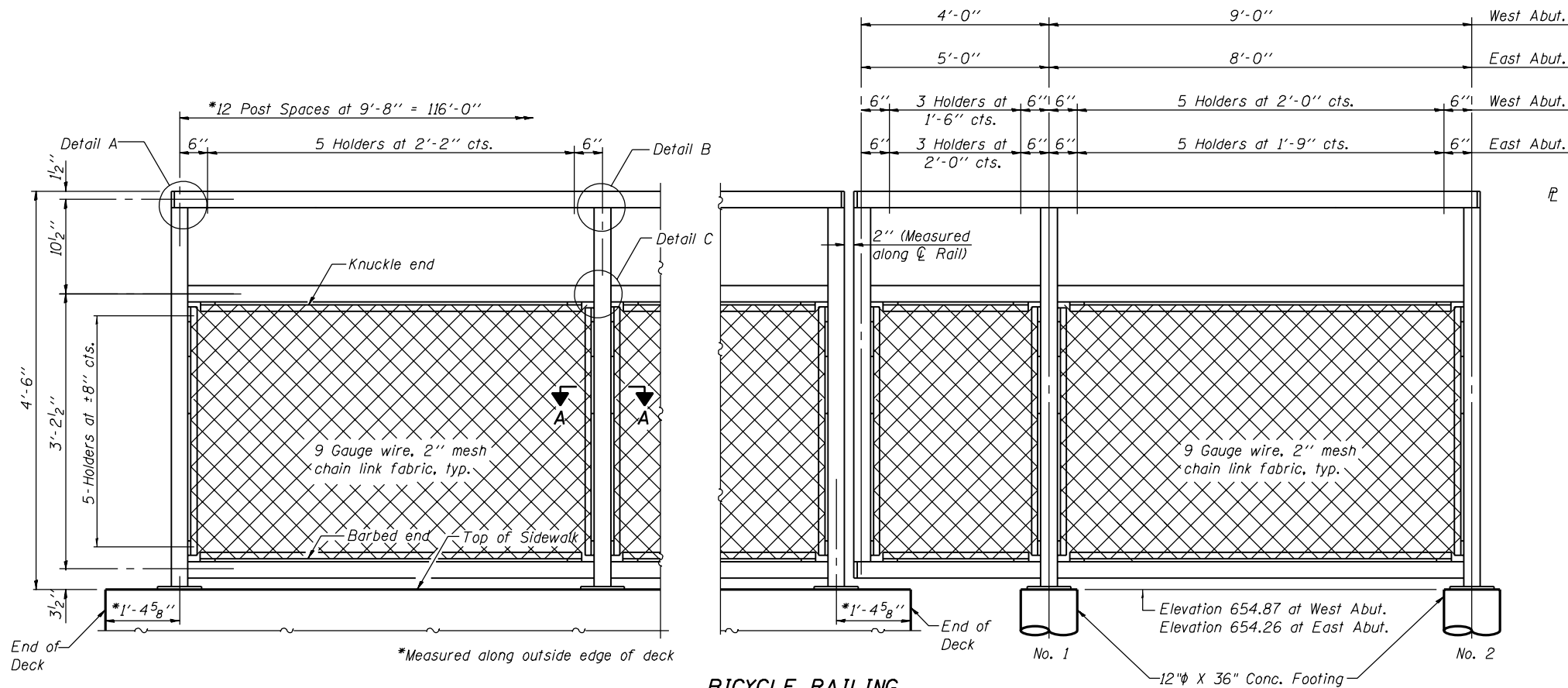
REVISED -
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REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

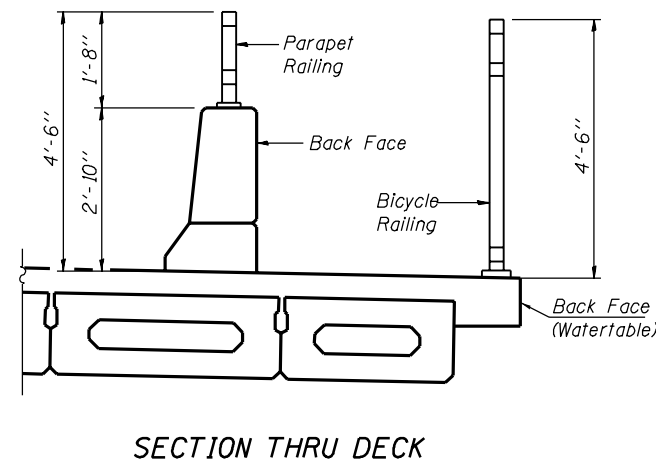
**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BRIDGE APPROACH SLAB DETAILS**

SCALE: SHEET 11 OF 23 SHEETS STA. TO STA.

F.A.U. RTE. 7359 SECTION 17-00706-00-BR COUNTY MACON TOTAL SHEETS 85 SHEET NO. 73
STRUCTURE NO. 058-3036 CONTRACT NO. 95841
ILLINOIS FED. AID PROJECT



FOOTING LOCATION		
Description	Station	Offset
West Abut. No. 1	179+38.40	32.79' Rt
West Abut. No. 2	179+29.64	34.86' Rt
East Abut. No. 1	180+64.04	32.77' Rt
East Abut. No. 2	180+71.90	34.23' Rt



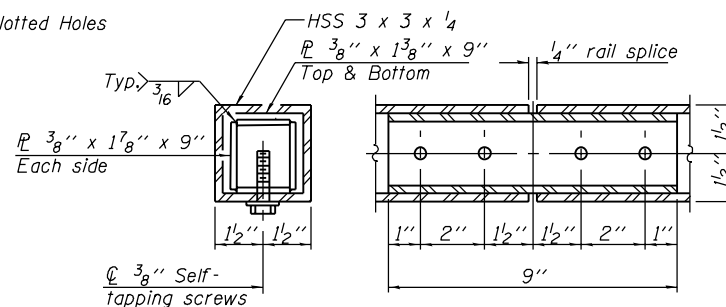
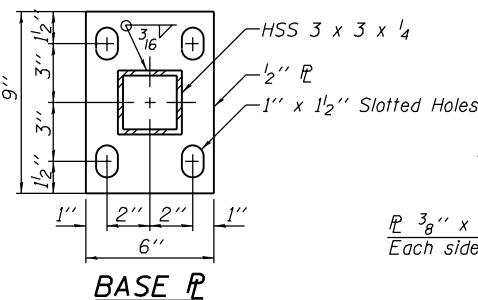
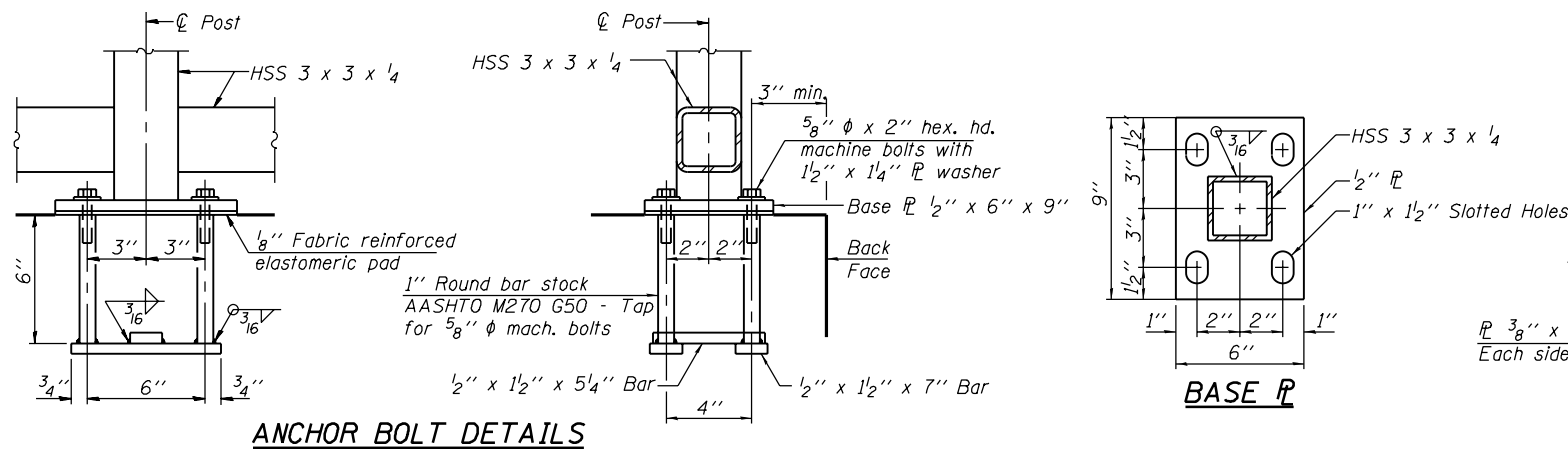
Note:

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

CVN testing may be omitted for the Bicycle Railing.

Footings for Bicycle Railing end panels shall be included in the cost of Bicycle Railing, Special.



BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing, Special	Foot	143
Parapet Railing	Foot	144

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

AECOM

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(217) 875-4800

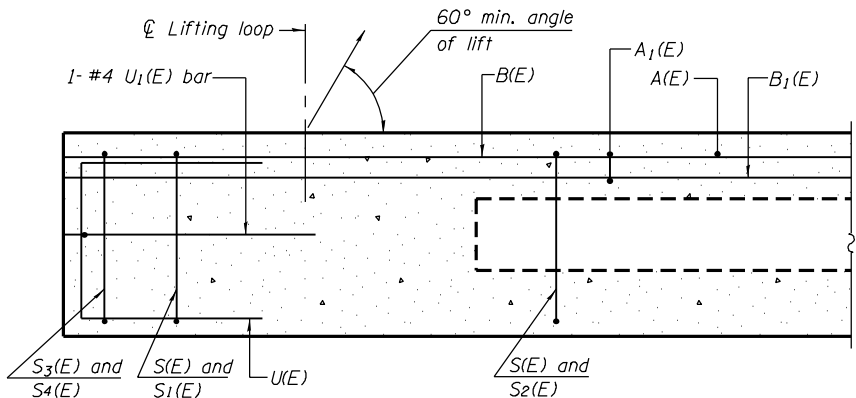
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
PLOT SCALE = 20:1 Ftm / in.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 7/18/2018	REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BICYCLE RAILING**

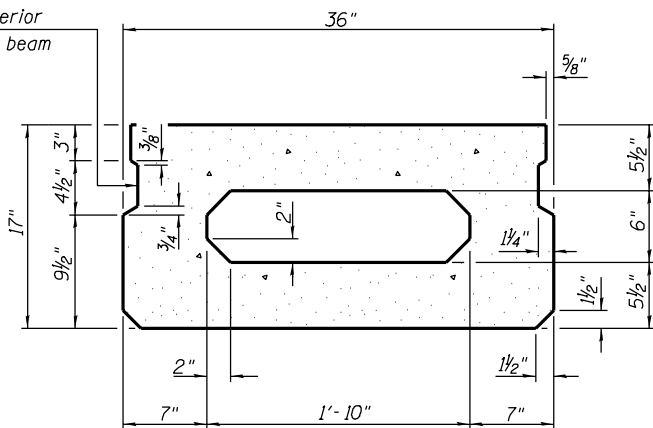
SCALE: SHEET 12 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STRUCTURE NO. 058-3036		CONTRACT NO. 9584		
ILLINOIS FED. AID PROJECT				

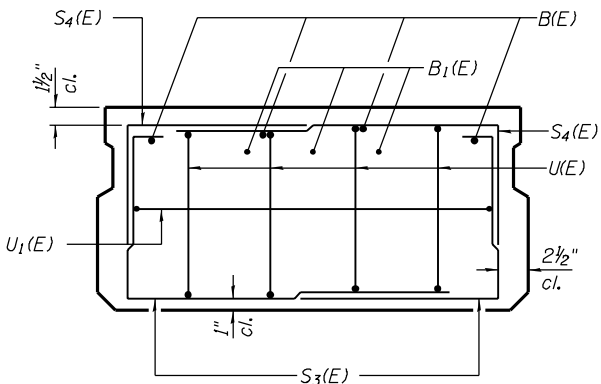


SECTION A-A

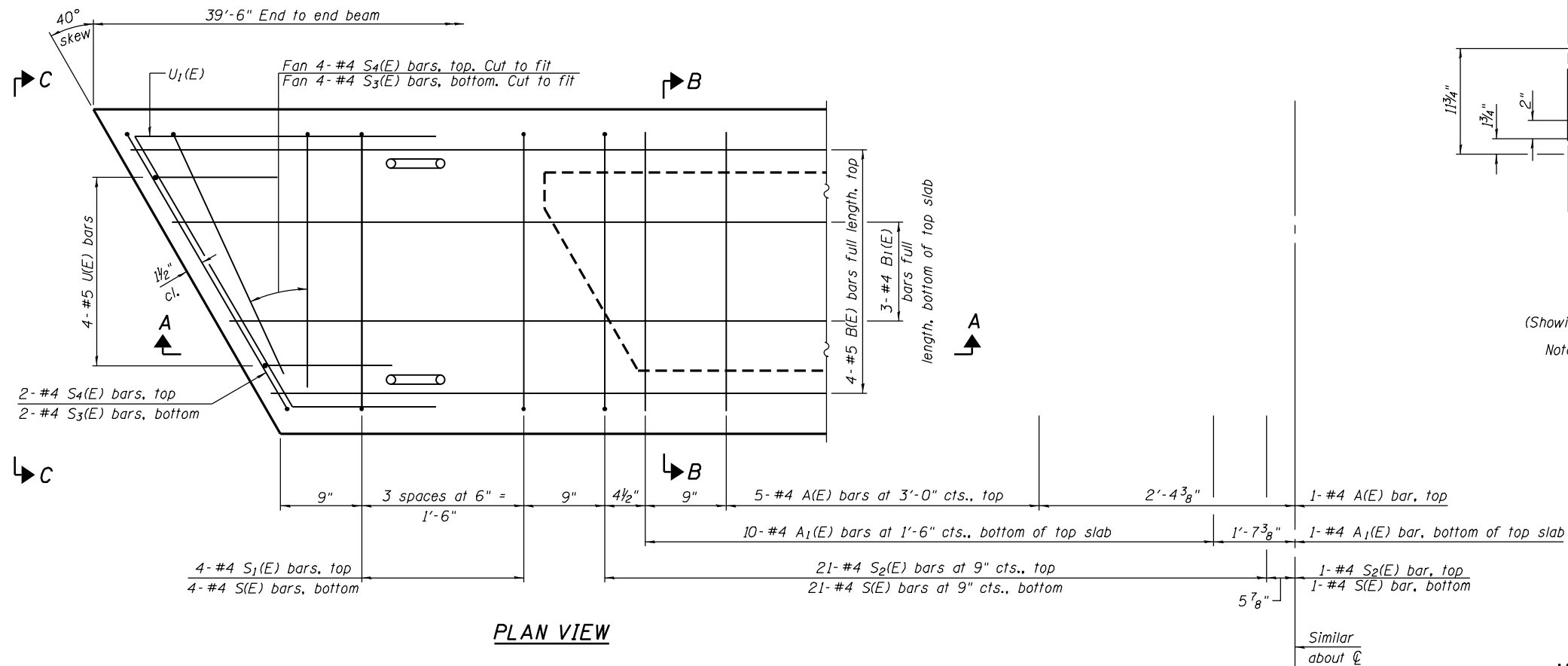
Omit key on exterior face of outside beam



SECTION B-B
(Showing dimensions)

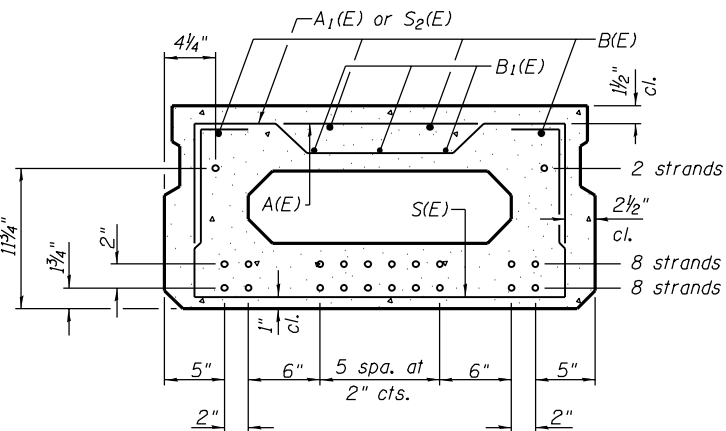


VIEW C-C



PLAN VIEW

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



SECTION B-B

(Showing reinforcement and permissible strand locations)

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	11	#4	2'-7"	—
A1(E)	21	#4	2'-10"	—
B(E)	4	#5	39'-2"	—
B1(E)	3	#4	39'-2"	—
S(E)	51	#4	5'-9"	┌┐
S1(E)	8	#4	4'-3"	┌┐
S2(E)	43	#4	4'-6"	┌┐
S3(E)	12	#4	4'-4"	┌┐
S4(E)	12	#4	3'-7"	┌┐
U(E)	8	#5	3'-8"	┌┐
U1(E)	2	#4	7'-10"	┌┐

Note:
See sheet 14 of 23 for additional details and Bill of Material.

MINIMUM BAR LAP

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

PD-1736-R

2-17-2017

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:1 F.T. / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 7/18/2018

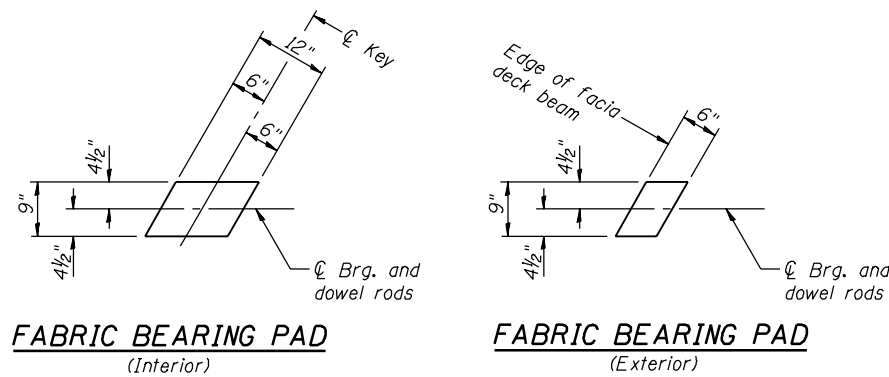
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REVISED -
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REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 36" PPC DECK BEAM

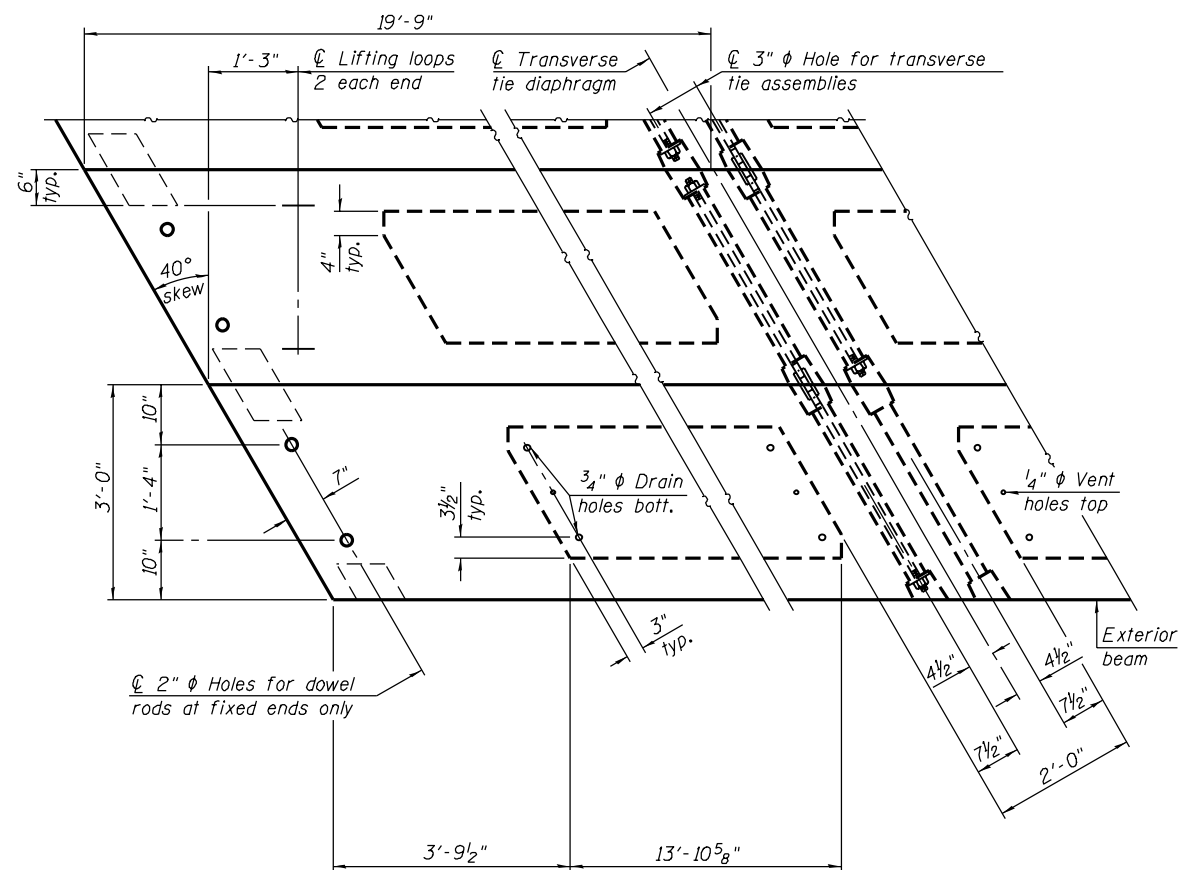
SCALE: SHEET 13 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	75
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



FIXED

Notes:
All bearing pads shall be 1" thick.



PLAN VIEW
(Typical All 3 Spans)

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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.

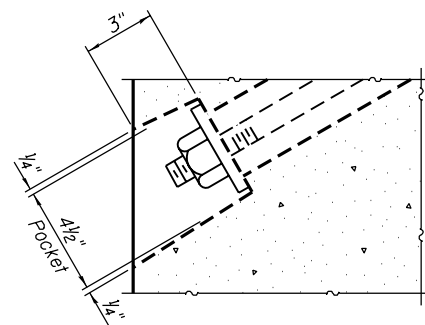
A minimum 2 $\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

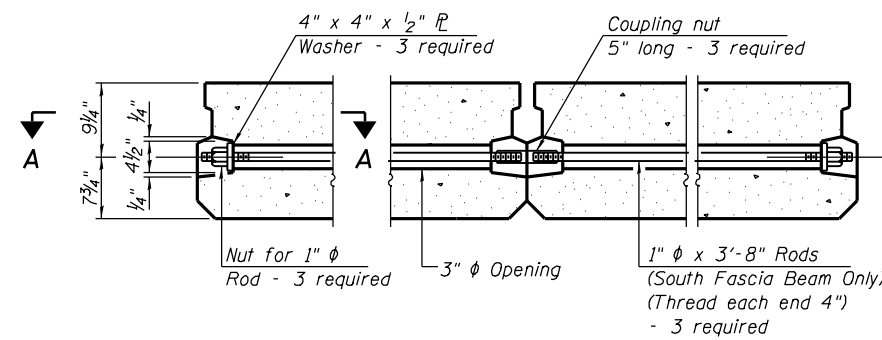
Compressive strength of prestressed concrete, $f'c$, shall be 6000 psi.

Compressive strength of prestressed concrete at release, $f'ci$, shall be 5000 psi.

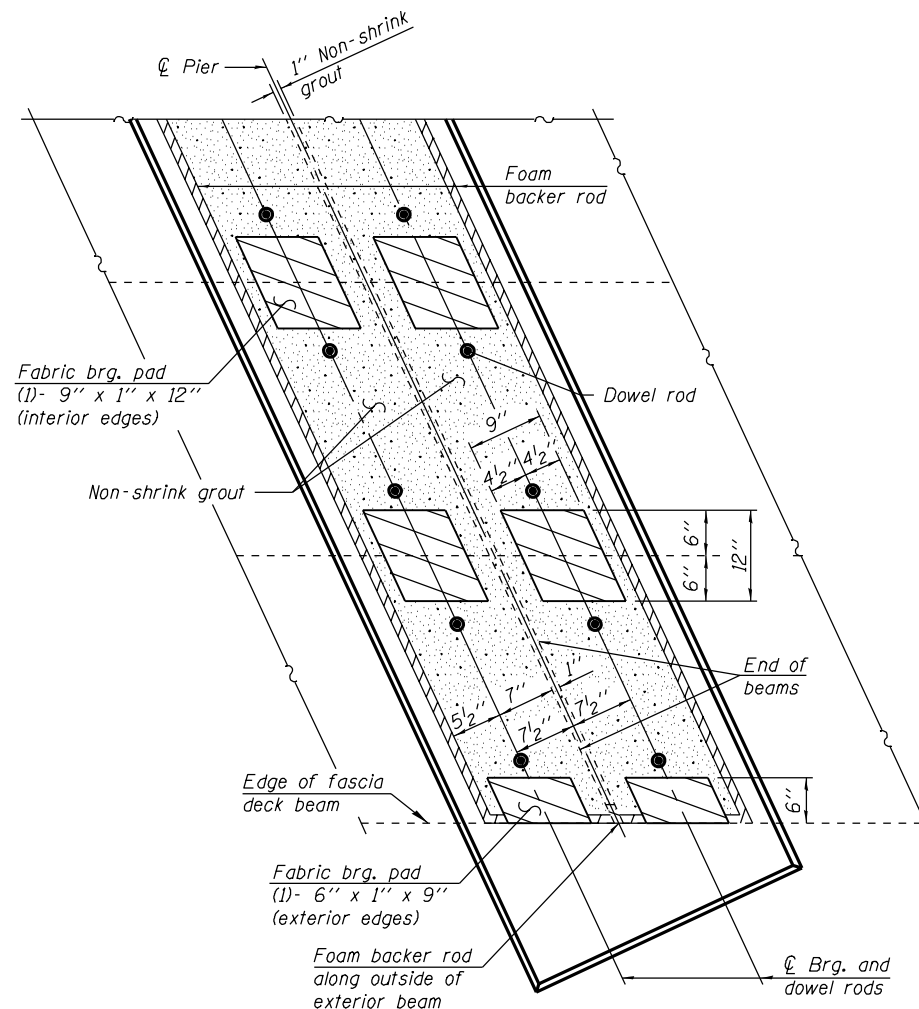
Burn existing dowel rods flush with existing pier surfaces. Cost included with Removal of Existing Superstructures.



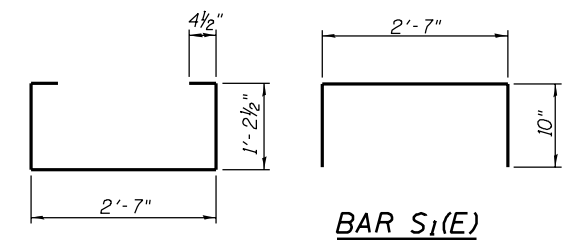
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

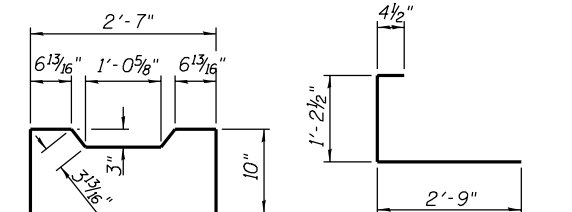


PLAN VIEW AT PIERS
(For Section thru Piers, see sheet 8 of 23)



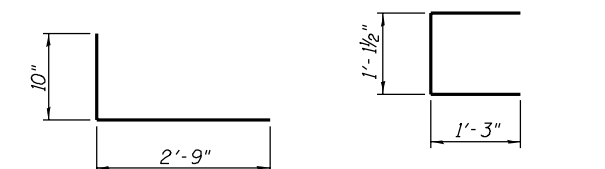
BAR S(E)

BAR S₁(E)



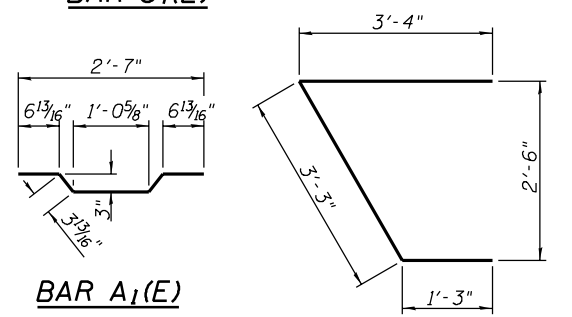
BAR S₂(E)

BAR S₃(E)



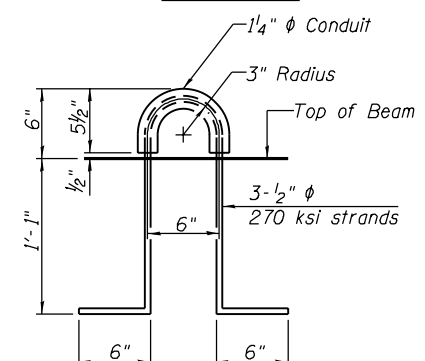
BAR S₄(E)

BAR U(E)



BAR A₁(E)

BAR U₁(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	356
---	---------	-----

AECOM
345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

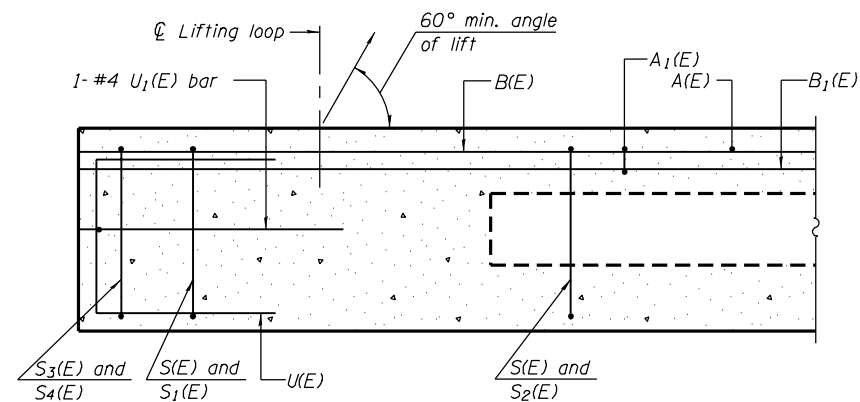
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
PLOT SCALE = 20:1 ftn / in.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 7/18/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

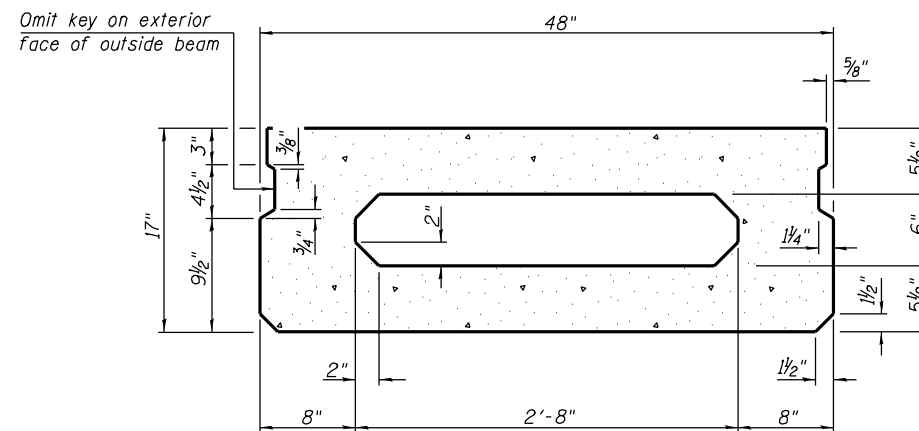
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 36" PPC DECK BEAM DETAILS

SCALE: SHEET 14 OF 23 SHEETS STA. TO STA.

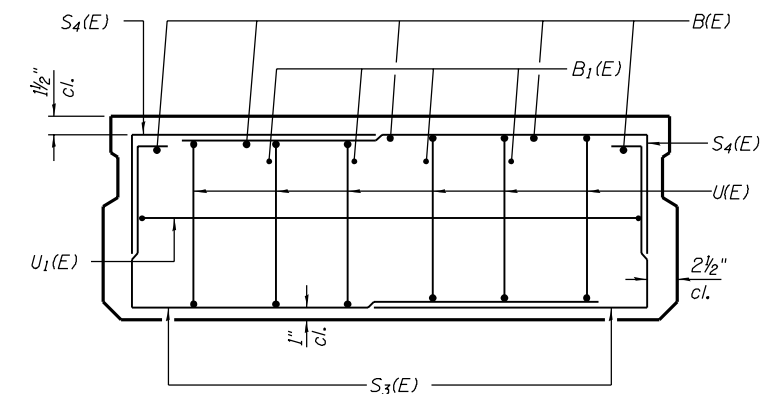
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	76
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



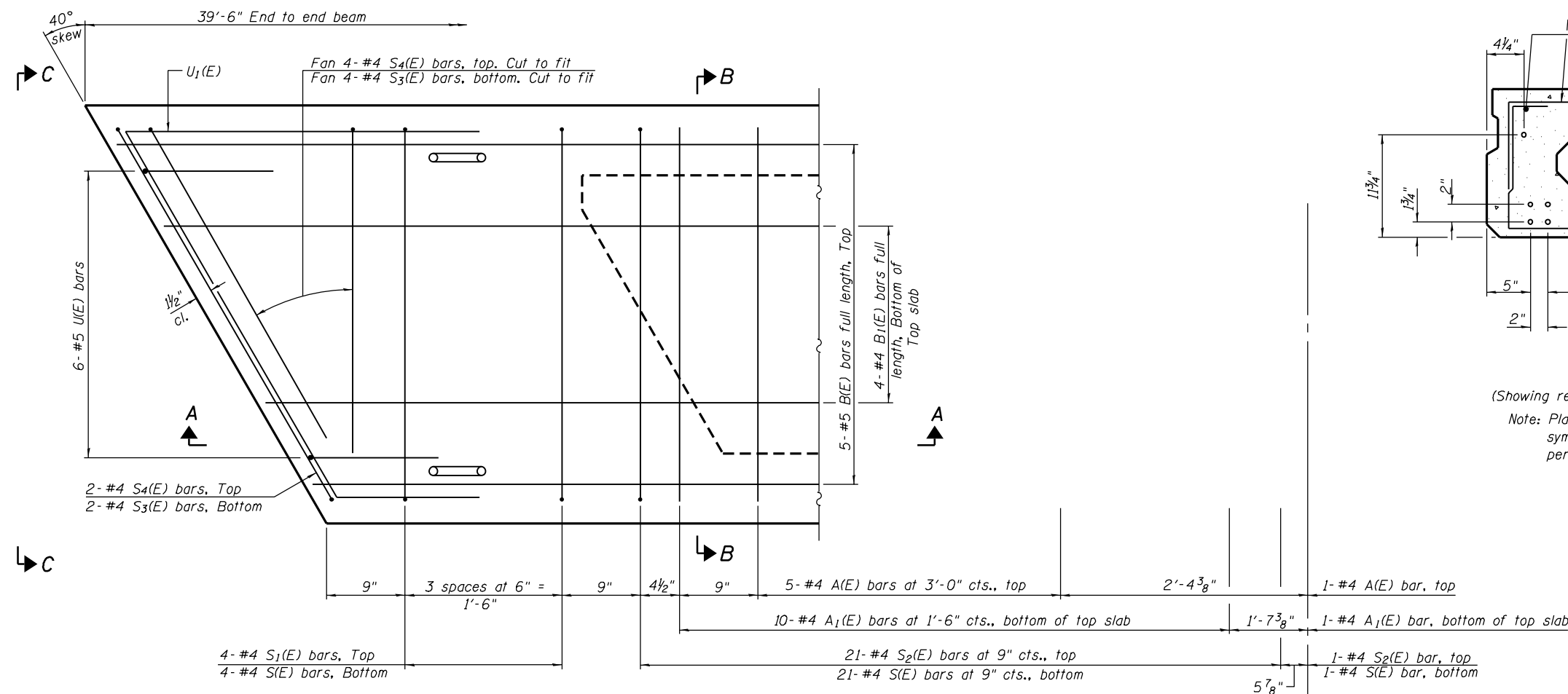
SECTION A-A



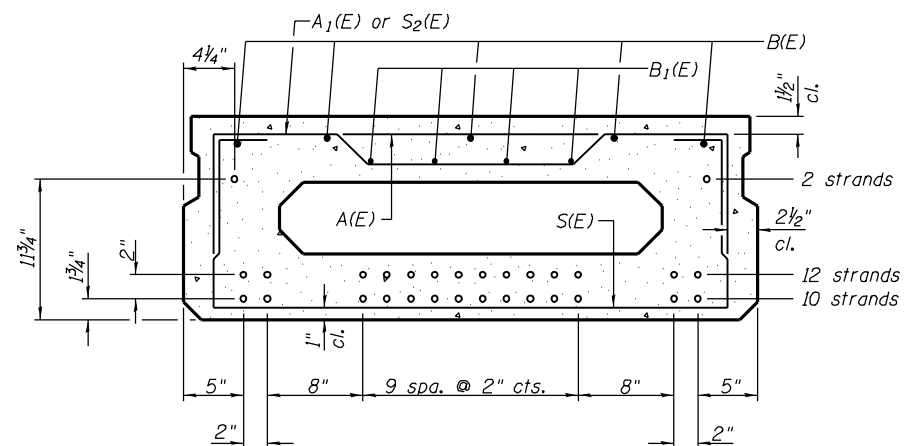
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	11	#4	3'-7"	—
A1(E)	21	#4	3'-10"	—
B(E)	5	#5	39'-2"	—
B1(E)	4	#4	39'-2"	—
S(E)	51	#4	6'-9"	⌈
S1(E)	8	#4	5'-3"	⌈
S2(E)	43	#4	5'-6"	⌈
S3(E)	12	#4	4'-11"	⌈
S4(E)	12	#4	4'-2"	⌈
U(E)	12	#5	3'-8"	⌈
U1(E)	2	#4	10'-0"	⌈

Note: See sheet 16 of 23 for additional details and Bill of Material.
See sheet 8 of 23 for D1(E) bars to be included with Beams No. 1 & 17.

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

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

PD-1748-R

2-17-2017

AECOM
345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
DRAWN - BKN
PLOT SCALE = 20:1 ftn / in.
CHECKED - DD
PLOT DATE = 10/4/2018
DATE - 7/18/2018
REVISED -

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 7/18/2018
REVISED -

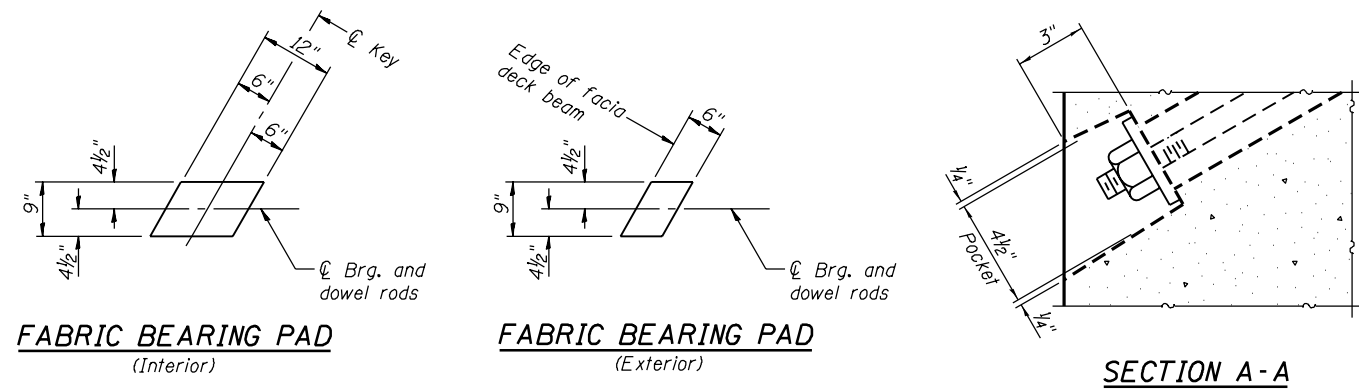
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REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 48" PPC DECK BEAM

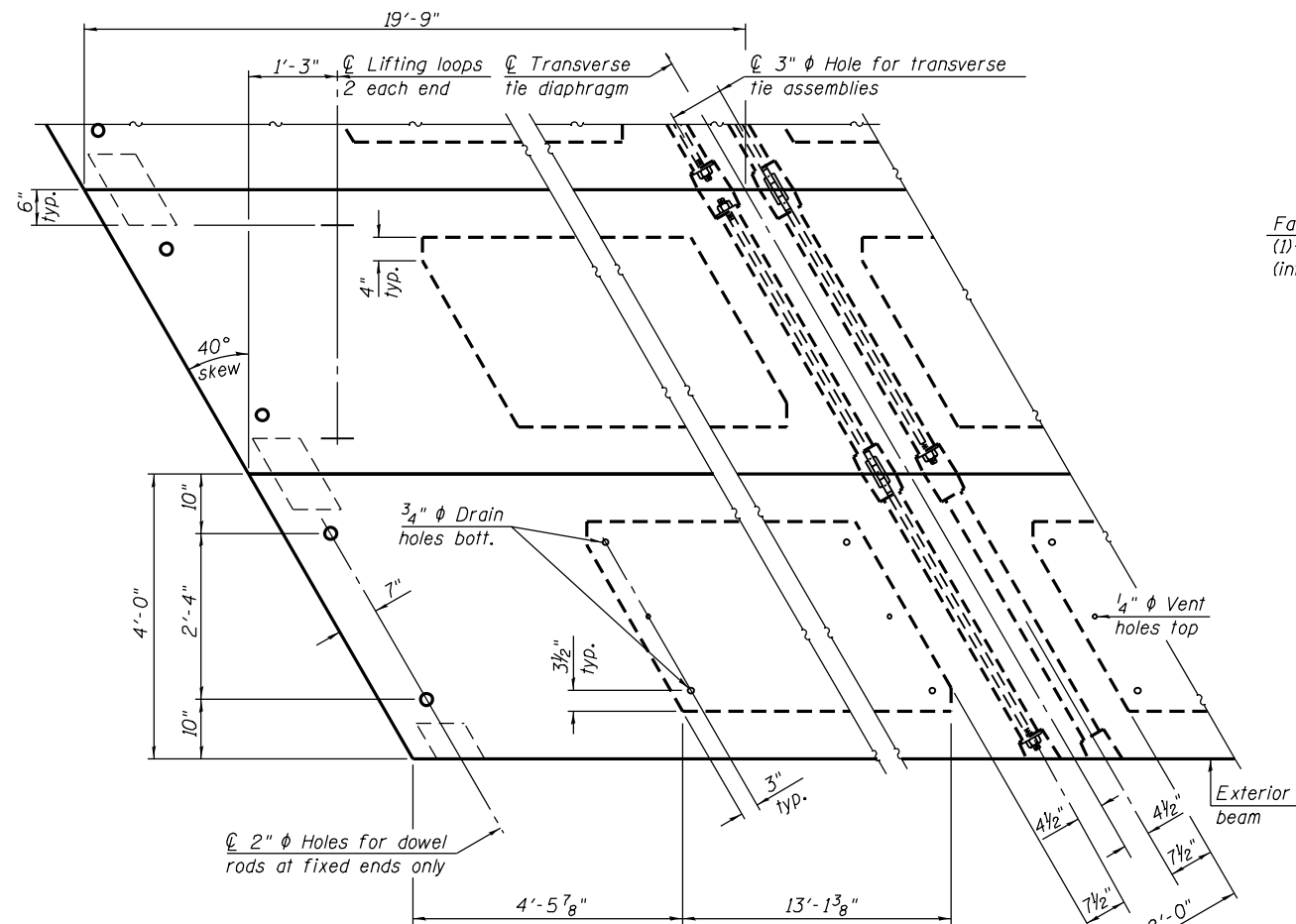
SCALE: SHEET 15 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	77
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



FIXED

Notes:
All bearing pads shall be 1" thick.



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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.

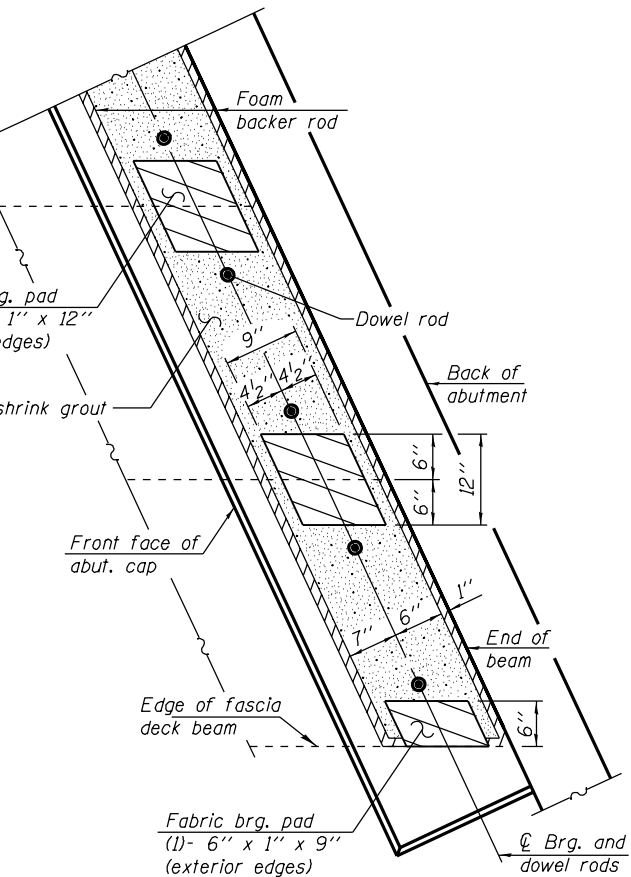
A minimum 2 $\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

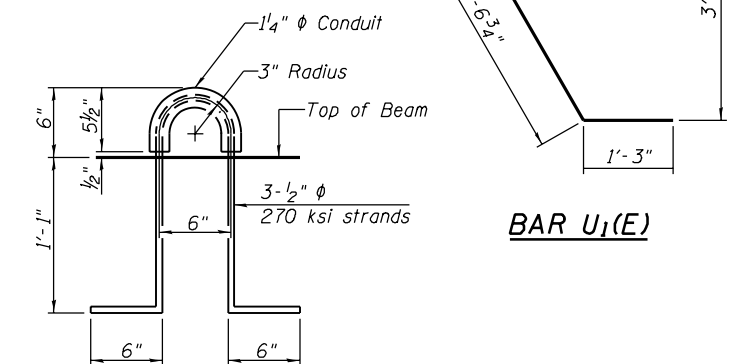
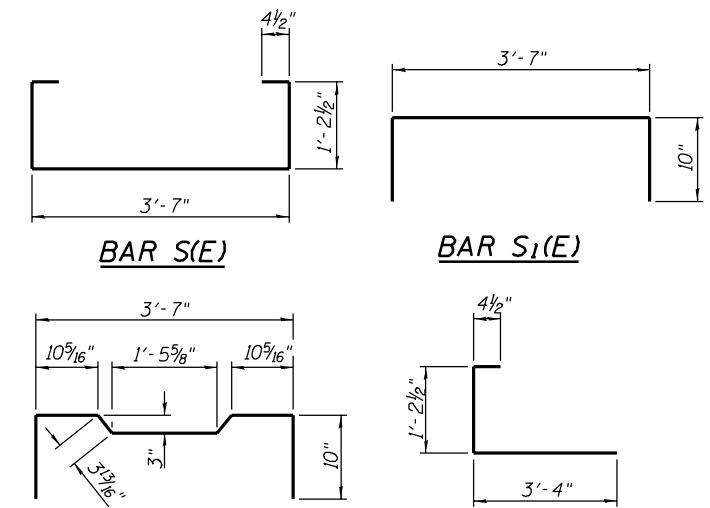
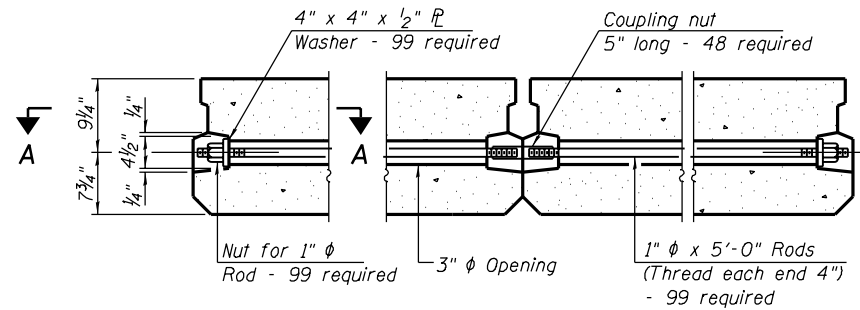
Compressive strength of prestressed concrete, f'_c , shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'_{ci} , shall be 5000 psi.

Burn existing dowel rods flush with existing abutment surfaces. Cost included with Removal of Existing Superstructures.



TYPICAL TRANSVERSE TIE ASSEMBLY



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	8058
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AECOM
345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

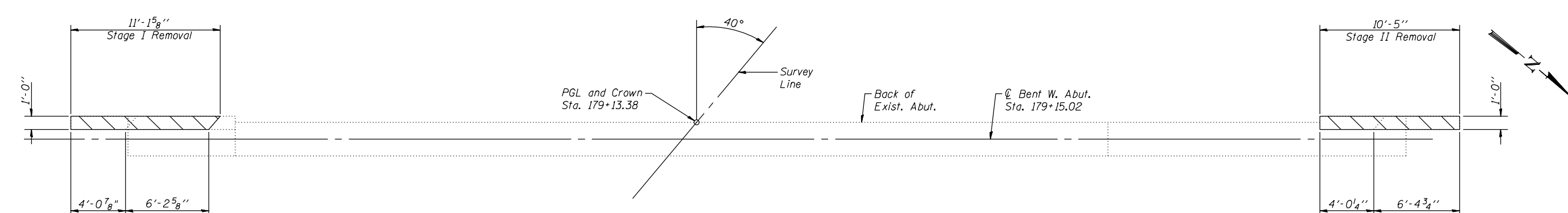
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
PLOT SCALE = 20:1 F.T. / IN.	DRAWN - BKN	REVISED -
PLOT DATE = 10/4/2018	CHECKED - DD	REVISED -
	DATE - 7/18/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

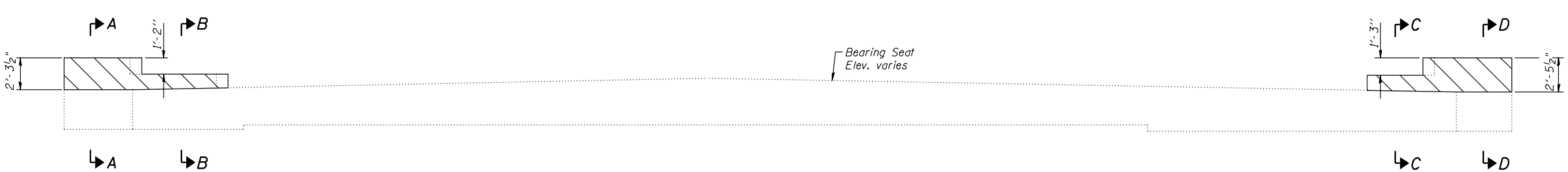
FAU 7359 (MOUND ROAD) OVER SPRING CREEK
17" x 48" PPC DECK BEAM DETAILS

SCALE: SHEET 16 OF 23 SHEETS STA. TO STA.

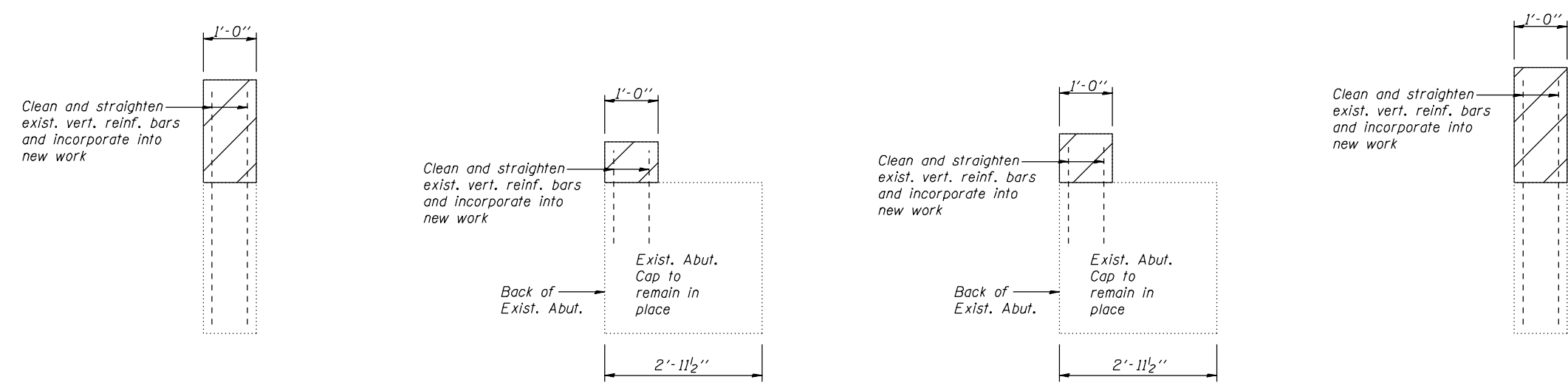
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	78
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
		ILLINOIS FED. AID PROJECT		



PLAN



ELEVATION



SECTION A-A
(Dimensions are at Rt. L's)

SECTION B-B
(Dimensions are at Rt. L's)

SECTION C-C
(Dimensions are at Rt. L's)

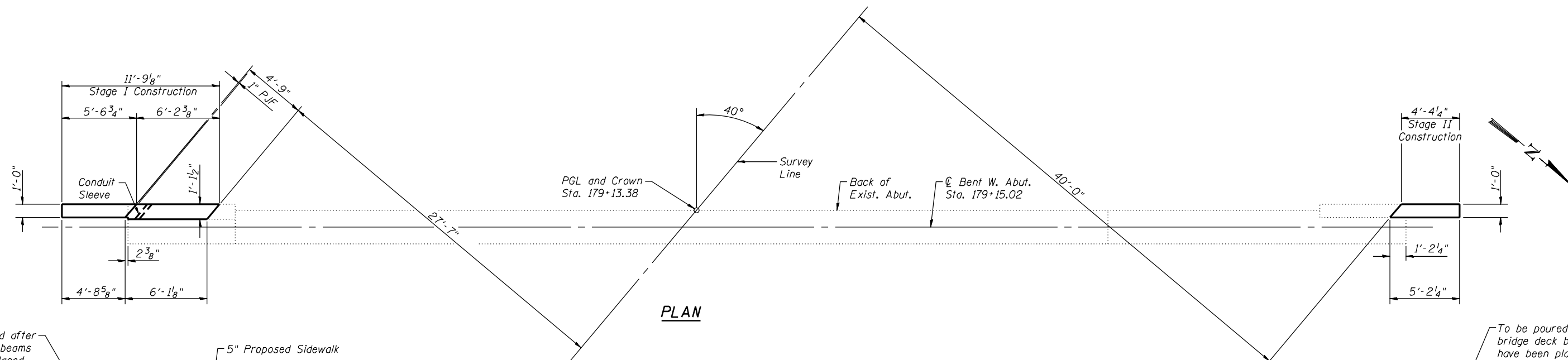
SECTION D-D
(Dimensions are at Rt. L's)

NOTES:

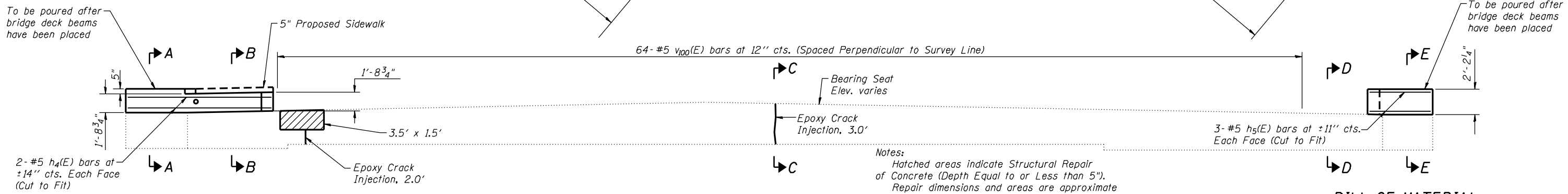
Hatched areas indicate Concrete Removal.

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.

Per existing plans, 14 graphited asbestos bearing pads (1/4" thick) are in place under existing Beams 6 thru 20. These pads shall be removed and disposed of according to Recurring Special Provision Check Sheet No. 6, with cost included in Asbestos Bearing Pad Removal.



PLAN

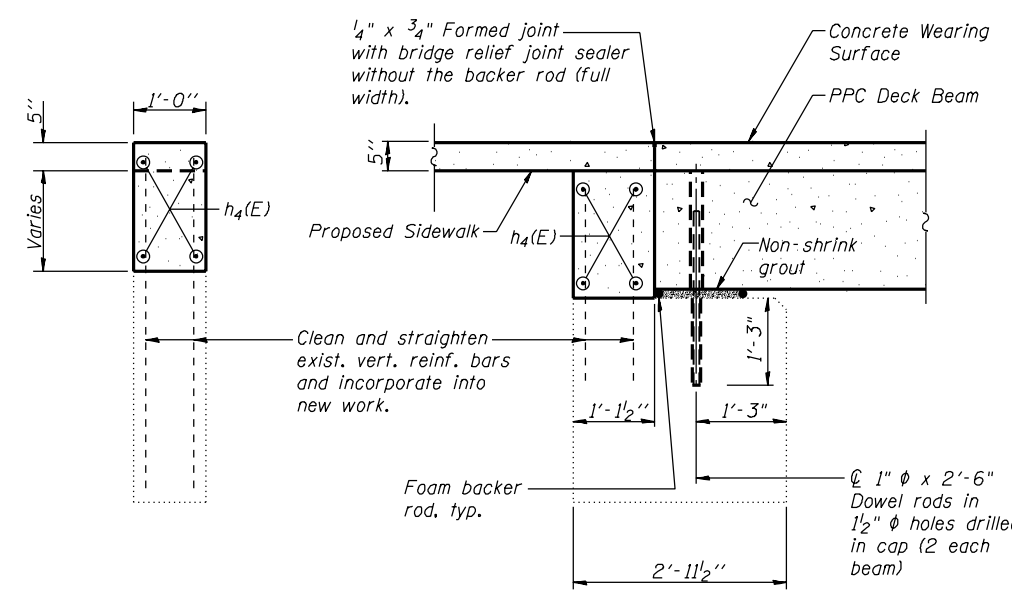


ELEVATION

Notes:
 Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
 Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Note that repair lengths and areas shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.
 If existing vertical reinforcement bars are damaged during concrete removal and are not able to be re-used, new #5 bars shall be drilled and grouted with 15" minimum embedment.
 For more detail of Foam Backer Rod and Non-Shrink Grout placement, see Plan View at Abutments on sheet 16 of 23.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_4(E)$	4	#5	11'-5"	—
$h_5(E)$	6	#5	4'-10"	—
Concrete Removal			Cu. Yd.	1.4
Concrete Structures			Cu. Yd.	1.3
Reinforcement Bars, Epoxy Coated			Pound	80
Epoxy Crack Injection			Foot	10
Asbestos Bearing Pad Removal			Each	14
Structural Repair of Concrete (Depth Equal to or Less than 5")			Sq. Ft.	12

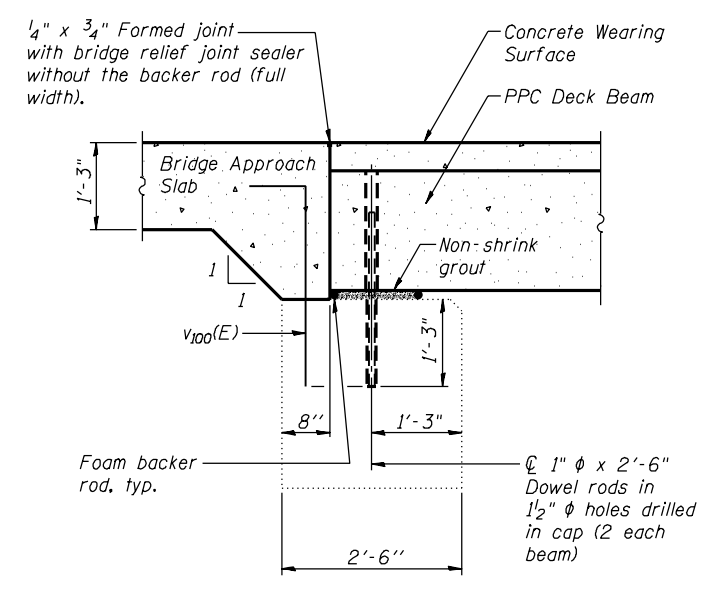


SECTION A-A

(Dimensions are at Rt. L's)

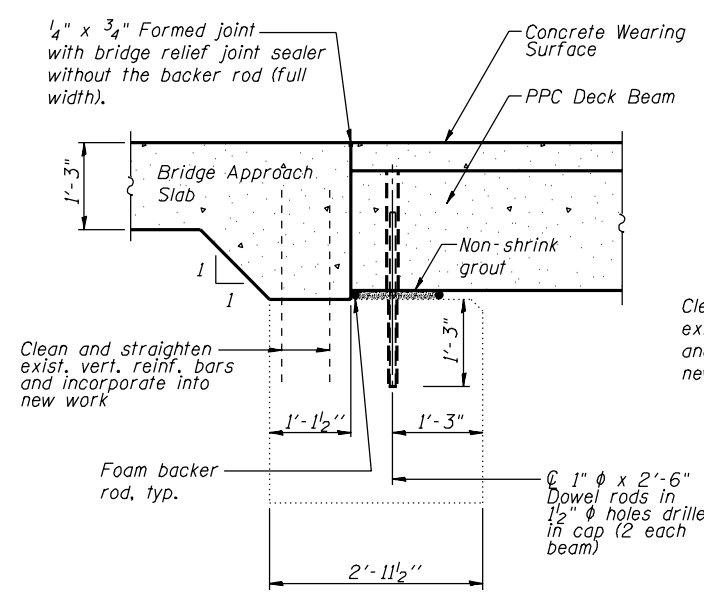
SECTION B-B

(Dimensions are at Rt. L's)



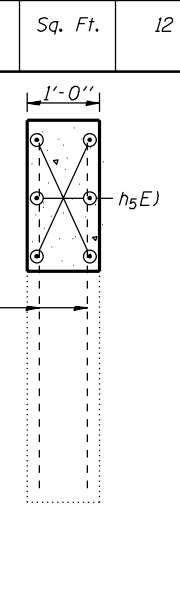
SECTION C-C

(Dimensions are at Rt. L's)



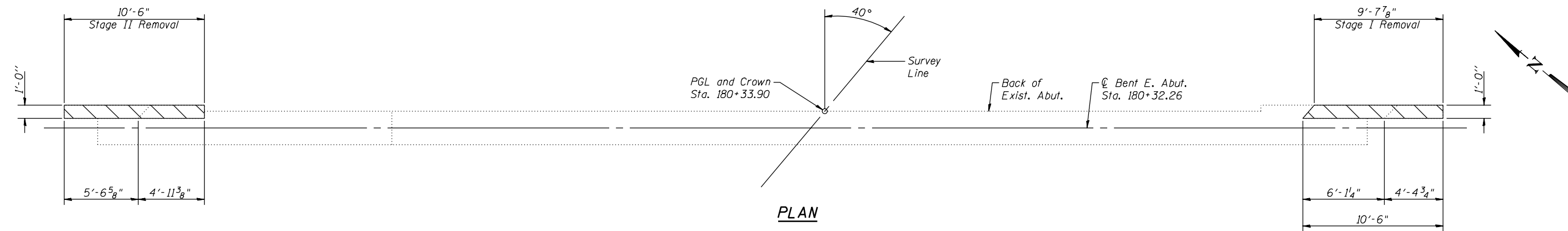
SECTION D-D

(Dimensions are at Rt. L's)

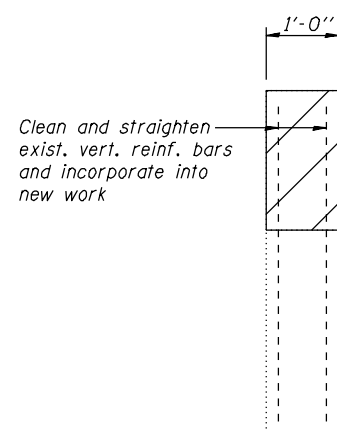


SECTION E-E

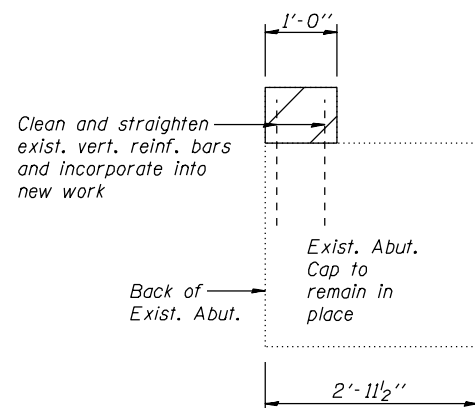
(Dimensions are at Rt. L's)



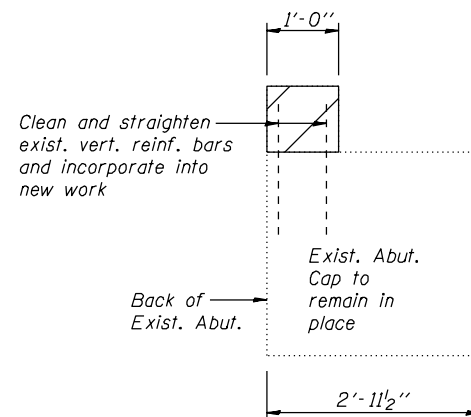
ELEVATION



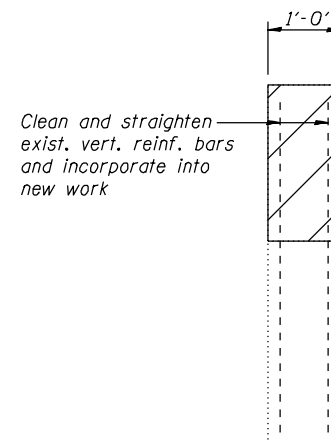
SECTION A-A
(Dimensions are at Rt. L's)



SECTION B-B
(Dimensions are at Rt. L's)



SECTION C-C
(Dimensions are at Rt. L's)



SECTION D-D
(Dimensions are at Rt. L's)

NOTES:

Hatched areas indicate Concrete Removal.

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.

Per existing plans, 14 graphited asbestos bearing pads (1/4" thick) are in place under existing Beams 6 thru 20. These pads shall be removed and disposed of according to Recurring Special Provision Check Sheet No. 6, with cost included in Asbestos Bearing Pad Removal.

AECOM

345 EAST ASH AVE.
SUITE B
DECATUR, IL 62526
(217) 875-4800

USER NAME = brian.k.nicholson
PLOT SCALE = 20:10 FTH / IN.
PLOT DATE = 10/4/2018

DESIGNED - MJP
DRAWN - BKN
CHECKED - DD
DATE - 7/18/2018

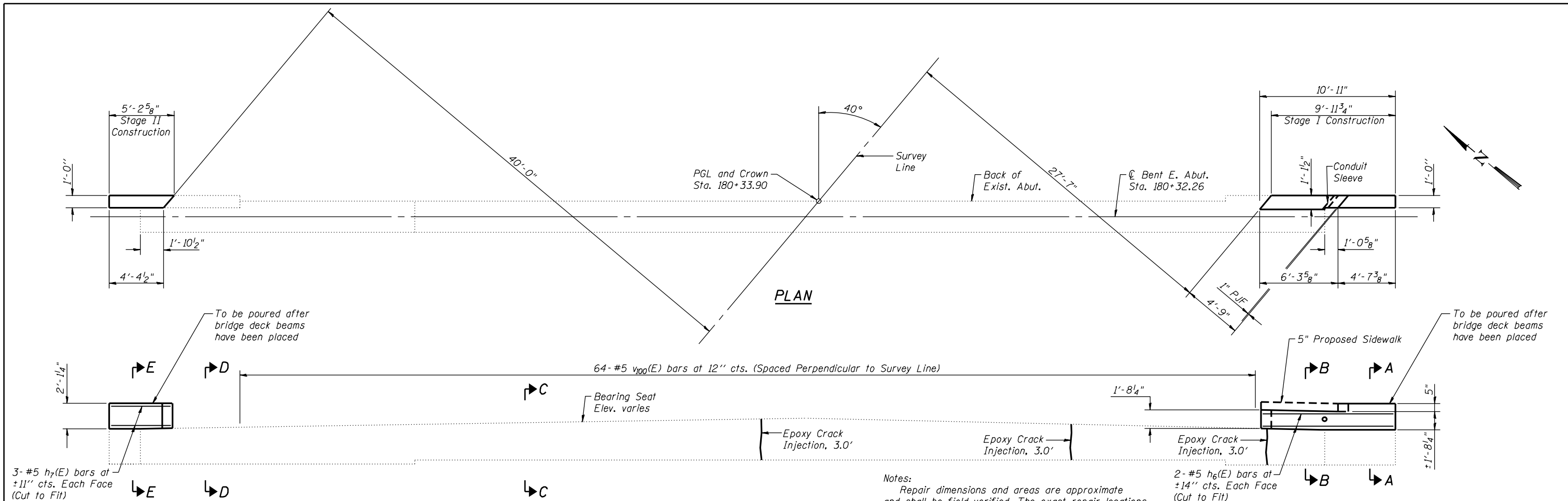
REVISED -
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**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
EAST ABUTMENT CONCRETE REMOVAL**

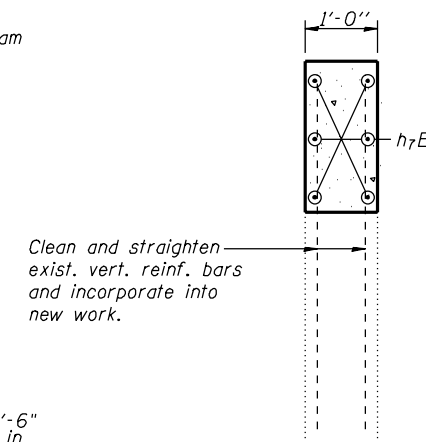
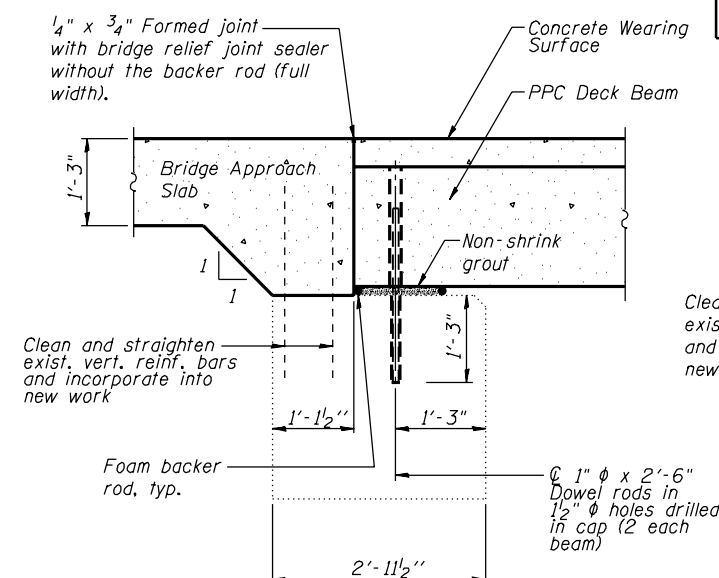
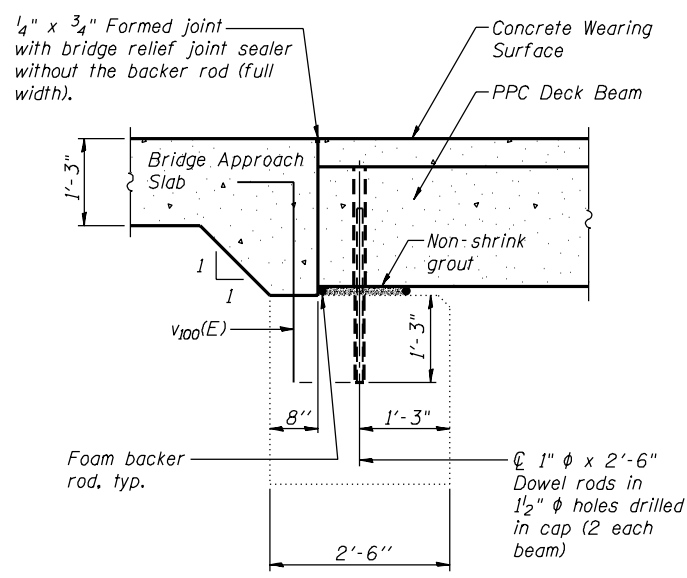
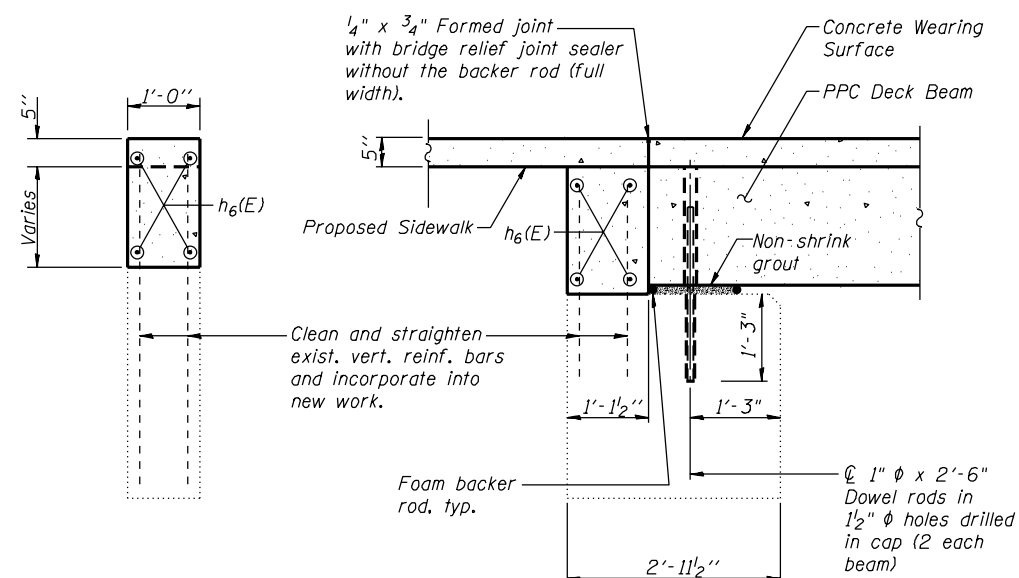
SCALE: SHEET 19 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	81
STRUCTURE NO. 058-3036			CONTRACT NO. 95841	
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₆ (E)	4	#5	10'-7"	
h ₇ (E)	6	#5	4'-11"	
Concrete Removal				Cu. Yd. 1.4
Concrete Structures				Cu. Yd. 1.2
Reinforcement Bars, Epoxy Coated				Pound 80
Epoxy Crack Injection				Foot 18
Asbestos Bearing Pad Removal				Each 14



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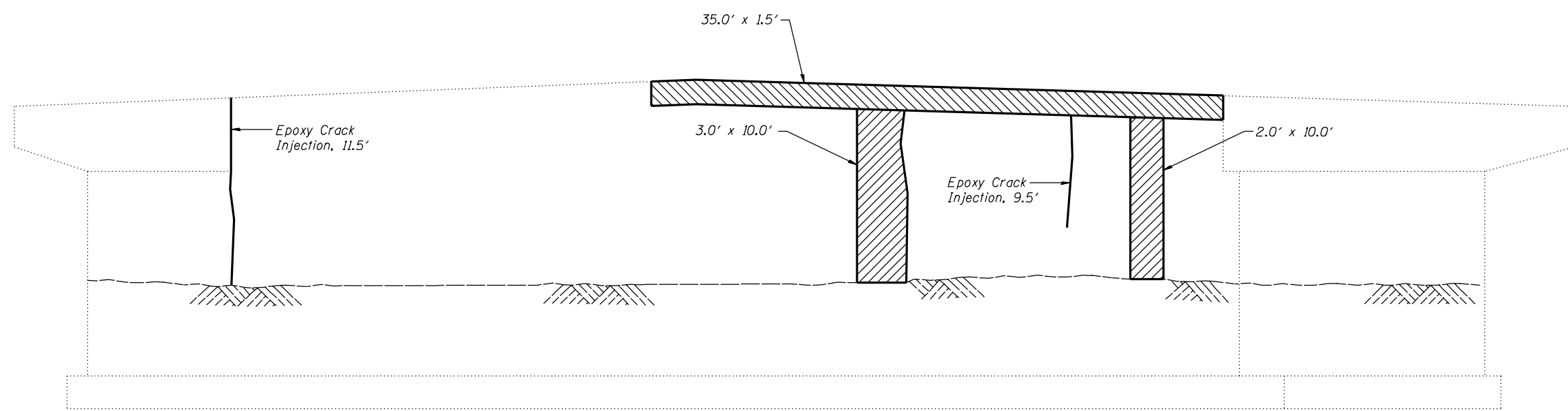
USER NAME = brian.k.nicholson	DESIGNED - MJP	REVISED -
DRAWN - BKN	REVISED -	
PLOT SCALE = 20:1 F.T.M. / IN.	CHECKED - DD	REVISED -
PLOT DATE = 10/4/2018	DATE - 7/18/2018	REVISED -

CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

FAU 7359 (MOUND ROAD) OVER SPRING CREEK
EAST ABUTMENT REPAIRS

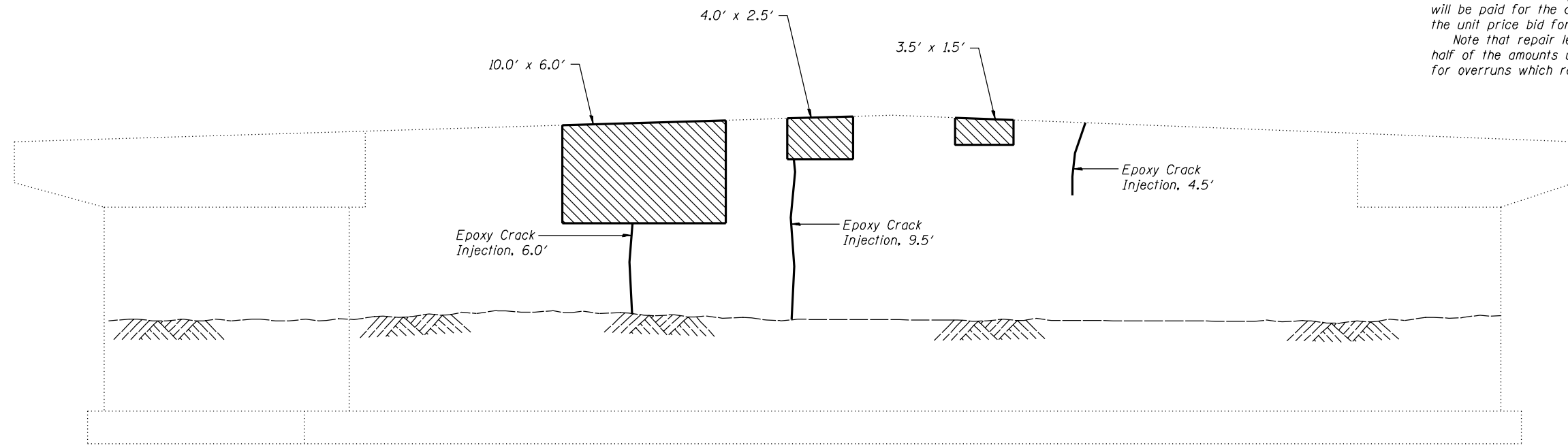
SCALE: SHEET 20 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	82
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)

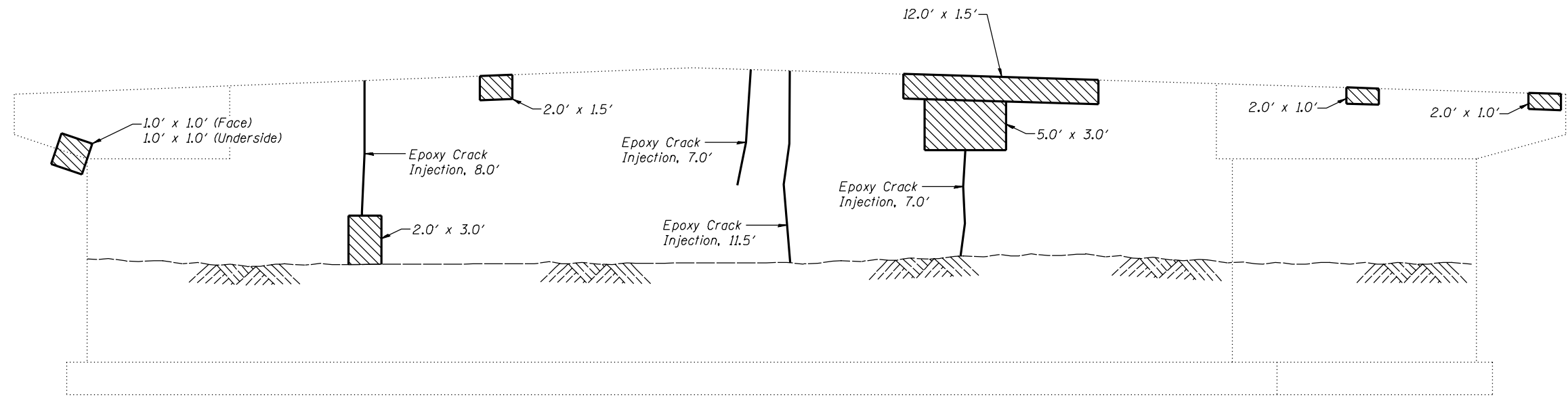
Notes:
Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Note that repair lengths and areas shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.



ELEVATION
(Looking East)

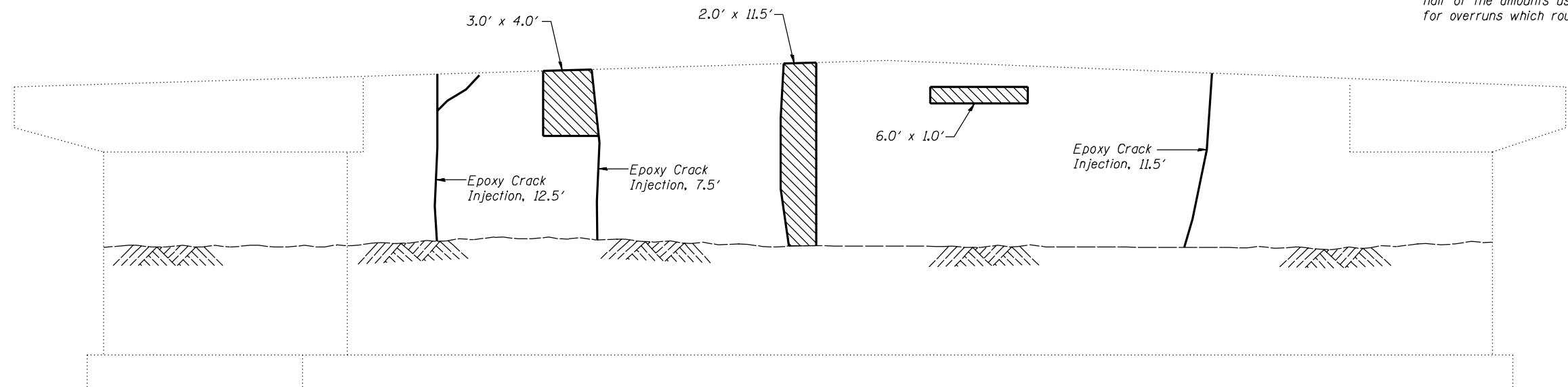
BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	82
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	356



ELEVATION
(Looking West)

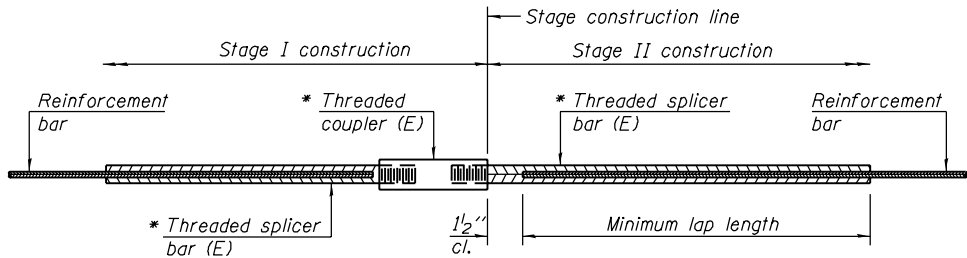
Notes:
Hatched areas indicate Structural Repair of Concrete (Depth Equal to or Less than 5").
Repair dimensions and areas are approximate and shall be field verified. The exact repair locations shall be determined by the Engineer. The Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Note that repair lengths and areas shown are one half of the amounts used for quantity purposes to account for overruns which routinely occur for concrete repairs.



ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	130
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	178

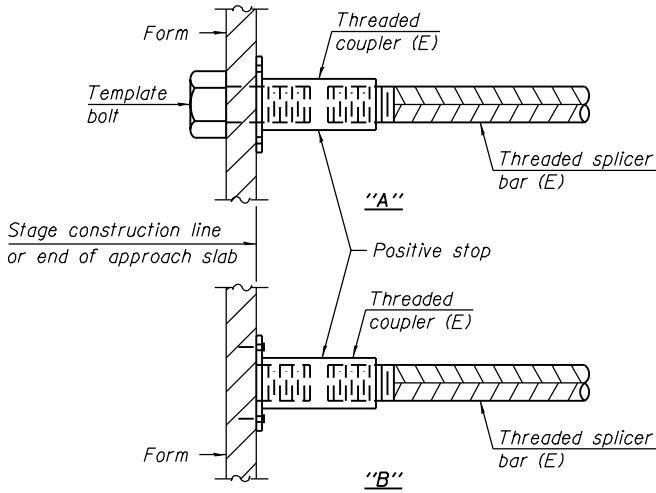


STANDARD BAR SPLICER ASSEMBLY

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

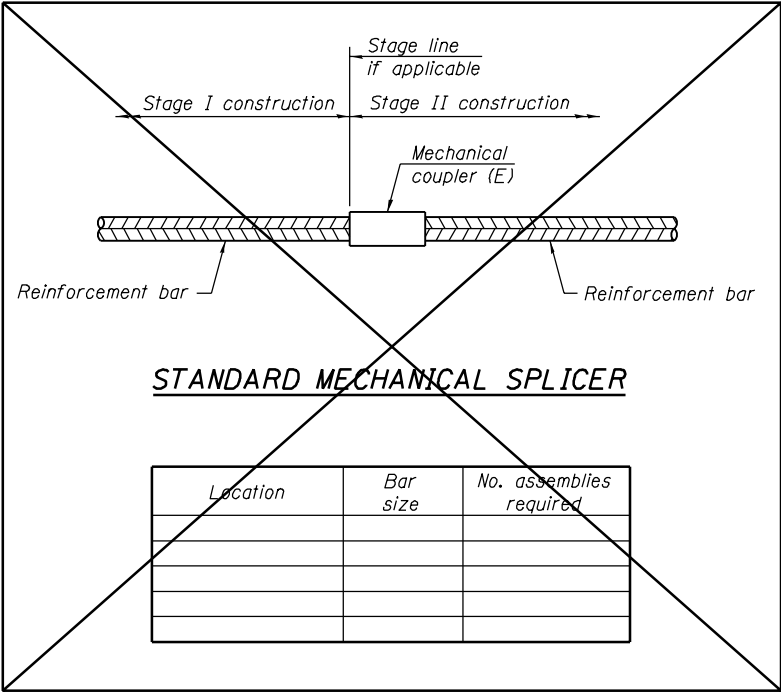
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#4	120	2'-5"
Approach Slab	#5	172	3'-4"
Approach Slab	#8	122	5'-11"



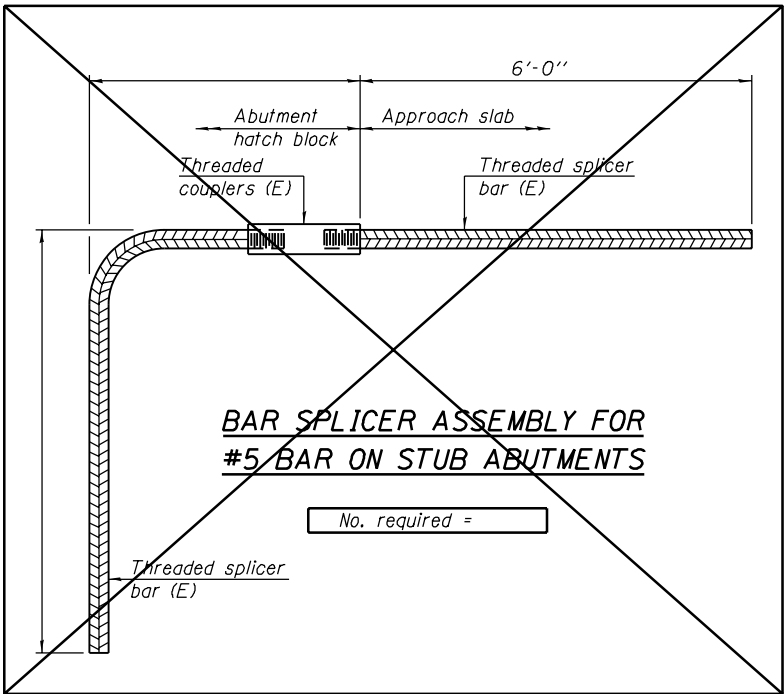
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR
#5 BAR ON STUB ABUTMENTS**

No. required =

NOTES

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

BSD-1

2-17-2017

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REVISED -
REVISED -

**CITY OF DECATUR, ILLINOIS
DEPARTMENT OF PUBLIC WORKS**

**FAU 7359 (MOUND ROAD) OVER SPRING CREEK
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS**

SCALE: SHEET 23 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7359	17-00706-00-BR	MACON	85	85
STRUCTURE NO. 058-3036		CONTRACT NO. 95841		
ILLINOIS FED. AID PROJECT				