

11-06-2020 LETTING ITEM 100

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
BRIDGE REPLACEMENT
STP – BRIDGE**

**MS 7490 (DRAWBRIDGE RD.) OVER JACKSONVILLE BRANCH
CITY OF SPRINGFIELD
SECTION 19-00485-00-BR
PROJECT OWWE (642)
SANGAMON COUNTY**

C-96-002-21

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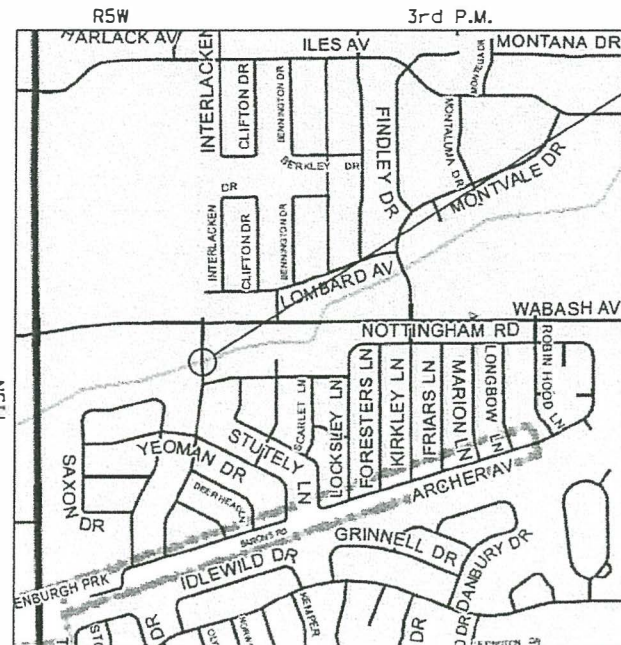
UTILITY COMPANIES:

AMERENCILCO - (NORTH)
6 EXECUTIVE DRIVE
COLLINSVILLE, IL 62234
PHONE: (618)-301-5327
CONTACT: NATHAN HILL

COMCAST
SPRINGFIELD, IL
PHONE: (224)-229-5862
CONTACT: MARTHA GIERAS

SANGAMON CO WTR RECLAMATION
SPRING CREEK PLANT
3000 N. EIGHTH STREET
SPRINGFIELD, IL 62707
PHONE: (217)-528-0491
CONTACT: JASON JACOBS

SPRINGFIELD CWLP
3100 STEVENSON DRIVE
SPRINGFIELD, IL 62703
PHONE: (217)-757-8600
CONTACT: LORI COX

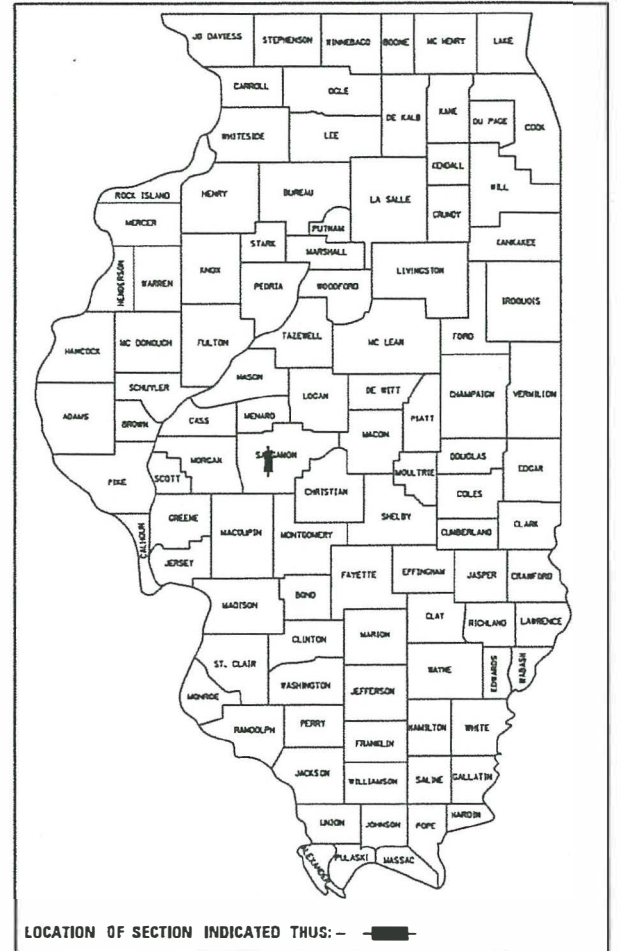


PROPOSED
SECTION 19-00485-00-BR
BEGINS STA. 5+00.00
ENDS STA. 5+50.00
EXIST. SN 084-6005
PROP. SN 084-6405

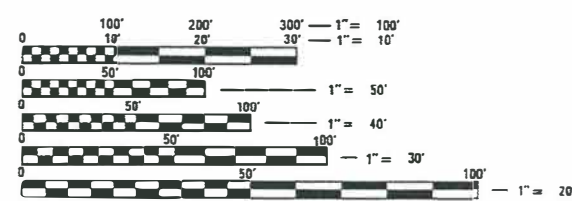
LOCATION MAP

TOTAL LENGTH = 150 FEET (0.028 MI)
NET LENGTH = 150 FEET (0.028 MI)

THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGE (S.N. 084-6005) AND CONSTRUCTING A NEW STRUCTURE (S.N. 084-6405) AT STA. 5+78.50 WITH A SINGLE-SPAN PRECAST PRESTRESSED DECK BEAM BRIDGE. 15° SKEW. VARIABLE WIDTH TRANSITION APPROACHES WITH CONCRETE CURB AND GUTTER, PCC SIDEWALKS, AND OTHER COLLATERAL WORK.



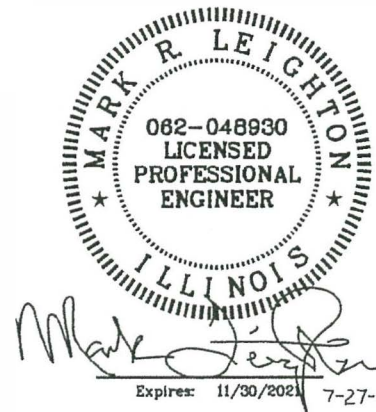
FUNCTIONAL CLASSIFICATION – LOCAL
ADT = 1800(2012)
DESIGN SPEED = 30 MPH



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

PROJECT MANAGER: SCOTT D. SANFORD, P.E., S.E.
PROJECT ENGINEER: MARK R. LEIGHTON, P.E., P.L.S.
CONTRACT NO. 93751



APPROVED July 27, 2020
Nathan Bolton
CITY ENGINEER

PASSED Aug 25, 2020
Ben Clavin
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

Released For Bid Based on Limited Review Aug 25, 2020
John P. Meyer
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Operator: J. Johnson, Date: 7/27/2020, #FILES

GENERAL NOTES

- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL ELEVATIONS ARE BASED ON NAVD 88-DATUM.
- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS/HER OPERATIONS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

- THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.
- EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
- FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- PAVEMENT REMOVAL TO INCLUDE THE EXISTING AGGREGATE BASE COURSE AND OIL AND CHIP SURFACE TREATMENT.
- THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

COMMITMENTS

- THE BRIDGE BAT ASSESSMENT EXPIRES 06/04/2021. A VALID ASSESSMENT IS REQUIRED PRIOR TO PERFORMING ANY WORK BELOW THE EXISTING BRIDGE DECK SURFACE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS	MS-7490	MS-7490
MIXTURE USE(S):	POLY HMA SURFACE (2")	HMA BINDER (6")
AC/PG:	SBS PG 70-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIX "C"	N/A
QUALITY MANAGEMENT	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

APPLICATION RATES

AGGREGATE WEDGE SHOULDERS	1.60 TONS/CU YD
AGGREGATE (SURFACE/BASE/SUBBASE/BACKFILL)	1.80 TONS/CU YD
BITUMINOUS MATERIALS (TACK COAT)	0.05 LB/SQ FT (MILLED HMA, AGED HMA)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LB/SQ FT (FOG COAT BETWEEN HMA LIFTS)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ FT (AGGREGATE)
HOT-MIX ASPHALT (SURFACE/BINDER/BASE)	112 LBS/SQ YD/IN
RIPRAP	1.50 TONS/CU YD
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE

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design firm
no. 184001036



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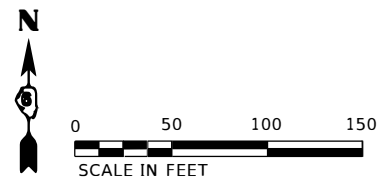
CITY OF SPRINGFIELD

**GENERAL NOTES AND COMMITMENTS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

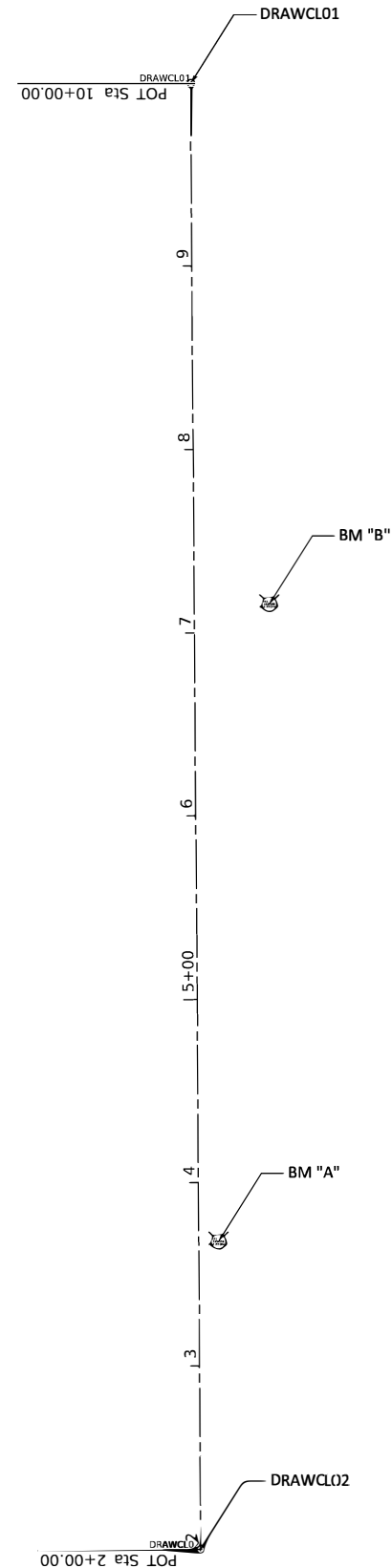
M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	2
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

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BM "A" STA 3+67.83, 10.7' RT
 "M" IN MUELLER ON FIRE HYDRANT AT THE SOUTHEAST CORNER OF
 DRAWBRIDGE ROAD AND NOTTINGHAM ROAD
 ELEVATION = 595.65

BM "B" STA 7+15.33, 40.9' RT
 "M" IN MUELLER ON FIRE HYDRANT EAST OF DRAWBRIDGE ROAD AND
 SOUTH OF ENTRANCE TO QDOBA MEXICAN GRILL
 ELEVATION = 595.33



Beginning chain DRAWBRIDGE description
 =====
 Point DRAWCL02 N 1,127,486.081 E 2,427,487.342 Sta 2+00.00
 Course from DRAWCL02 to DRAWCL01 N 0° 23' 56.2" W Dist 800.000
 Point DRAWCL01 N 1,128,286.061 E 2,427,481.771 Sta 10+00.00
 =====

design firm no. 184001036  engineers + planners + land surveyors	USER NAME = \$OPERATORS\$	DESIGNED - RKA	REVISED	CITY OF SPRINGFIELD	ALIGNMENT, TIES, BENCHMARKS & ENTRANCE DETAILS DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH	M.S. RTE. 7490	SECTION 19-00485-00-BR	COUNTY SANGAMON	TOTAL SHEETS 39	SHEET NO. 3
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PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED	REVISED	SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 93751			
ILLINOIS FED. AID PROJECT										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE
				0010 S.N. 084-6405
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	15	15
* 20200100	EARTH EXCAVATION	CU YD	125	125
20300100	CHANNEL EXCAVATION	CU YD	117	117
20800150	TRENCH BACKFILL	CU YD	3.7	3.7
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	12	12
28000400	PERIMETER EROSION BARRIER	FOOT	375	375
28000500	INLET AND PIPE PROTECTION	EACH	8	8
28100109	STONE RIPRAP, CLASS A5	SQ YD	244	244
28200200	FILTER FABRIC	SQ YD	244	244
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	350	350
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	118	118
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	677	677
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	135	135
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	102	102

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

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CITY OF SPRINGFIELD

SUMMARY OF QUANTITIES
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

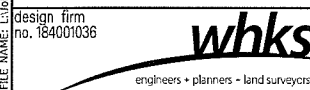
SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE
				0010 S.N. 084-6405
40604150	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	34	34
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	5	5
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1031	1031
* 44000100	PAVEMENT REMOVAL	SQ YD	389	389
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	5	5
44000400	GUTTER REMOVAL	FOOT	242	242
44000600	SIDEWALK REMOVAL	SQ FT	996	996
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	85.2	85.2
50300225	CONCRETE STRUCTURES	CU YD	41.4	41.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	14.7	14.7
50300260	BRIDGE DECK GROOVING	SQ YD	130	130
50300280	CONCRETE ENCASEMENT	CU YD	4.2	4.2
50300300	PROTECTIVE COAT	SQ YD	240	240

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

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CITY OF SPRINGFIELD

SUMMARY OF QUANTITIES
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BRIDGE
				0010 S.N. 084-6405
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1720	1720
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9830	9830
51201600	FURNISHING STEEL PILES HP12X53	FOOT	338	338
51202305	DRIVING PILES	FOOT	338	338
51203600	TEST PILE STEEL HP12X53	EACH	1	1
51500100	NAME PLATES	EACH	1	1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	52	52
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	62	62
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	3	3
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	4	4
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	210	210

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

MODEL DESIGNER: SPRINGFIELD CITY OF SPRINGFIELD DRAWING: BRIDGE SHEETS 19-00485-SHC-500.dwg

design firm
no. 784001036



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CITY OF SPRINGFIELD

SUMMARY OF QUANTITIES
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0010 S.N. 084-6405
67100100	MOBILIZATION	L SUM	1	1
Δ 81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	50	50
Δ 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	100	100
* X0300266	WOODEN FENCE REMOVAL	FOOT	30	30
X0325862	CONCRETE BRIDGE RAILING	FOOT	86	86
* Δ X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	4	4
* X2500900	SEEDING, CLASS 1 (SPECIAL)	ACRE	0.1	0.1
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1	0.1
* X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	191	191
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	105	105

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

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CITY OF SPRINGFIELD

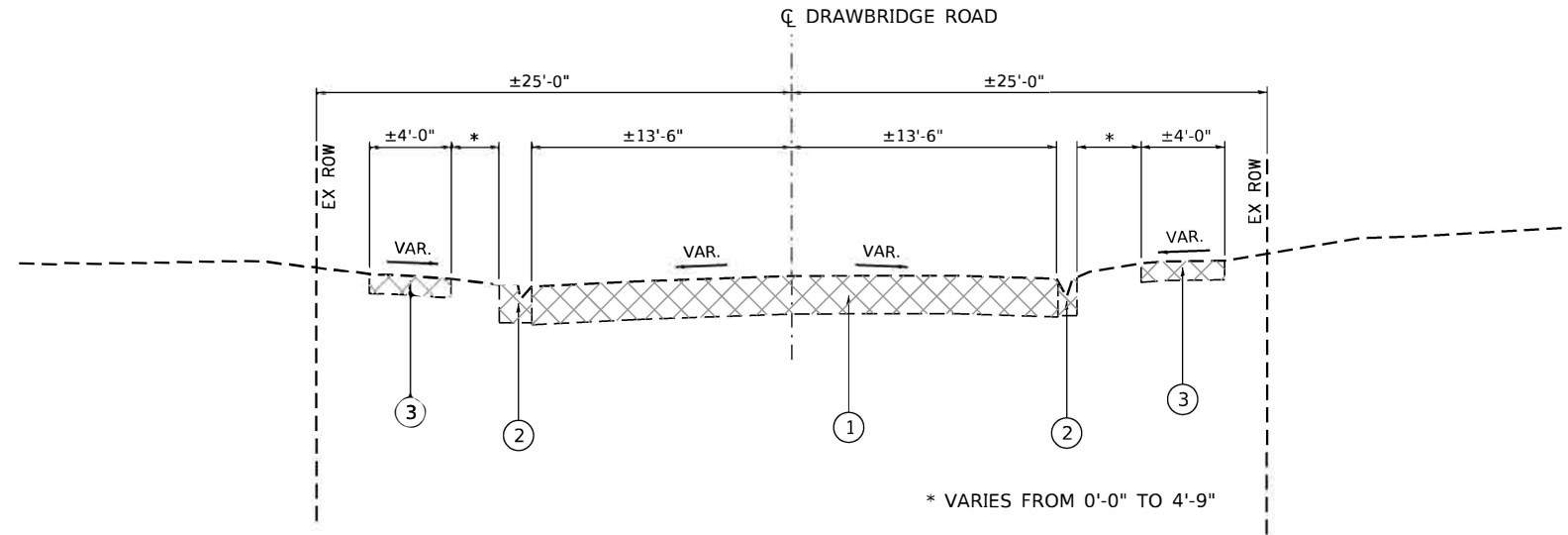
SUMMARY OF QUANTITIES
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. TO STA.

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

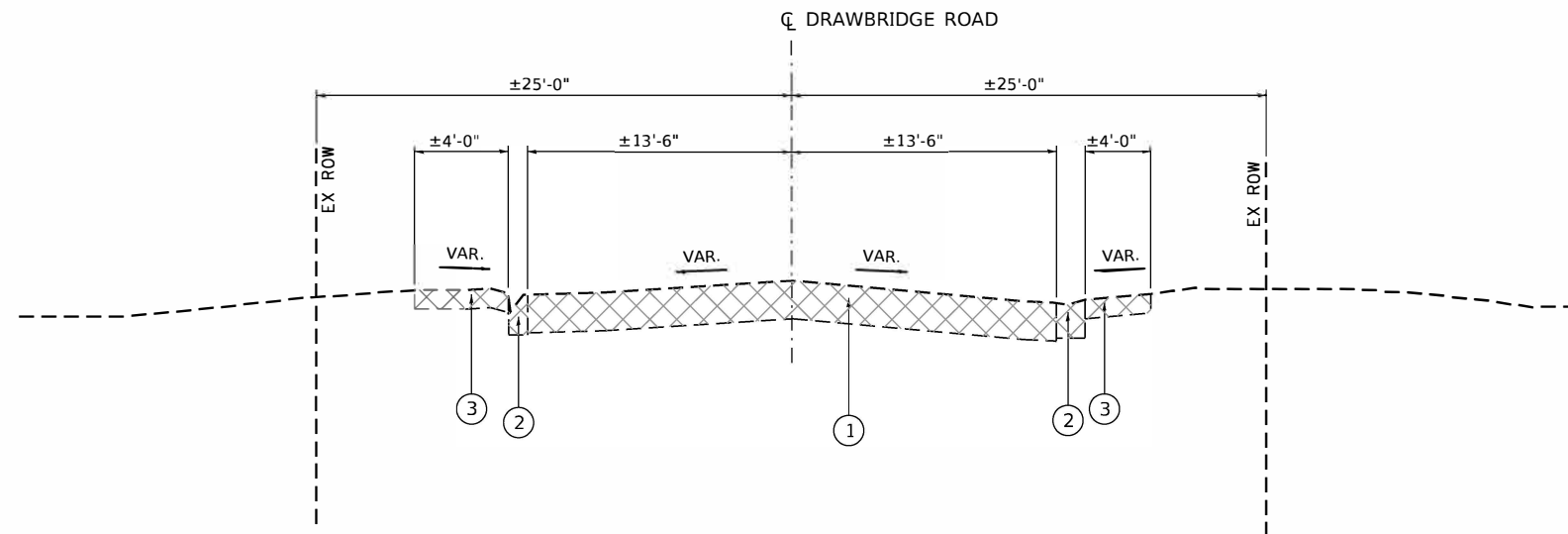
LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING GUTTER
- ③ EXISTING SIDEWALK
- ☒ REMOVAL



EXISTING TYPICAL SECTION

STA. 5+00.00 TO STA. 5+65.75
(LOOKING NORTH)



EXISTING TYPICAL SECTION

STA. 5+91.25 TO STA. 6+50.00
(LOOKING NORTH)

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no. 184001036



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CITY OF SPRINGFIELD

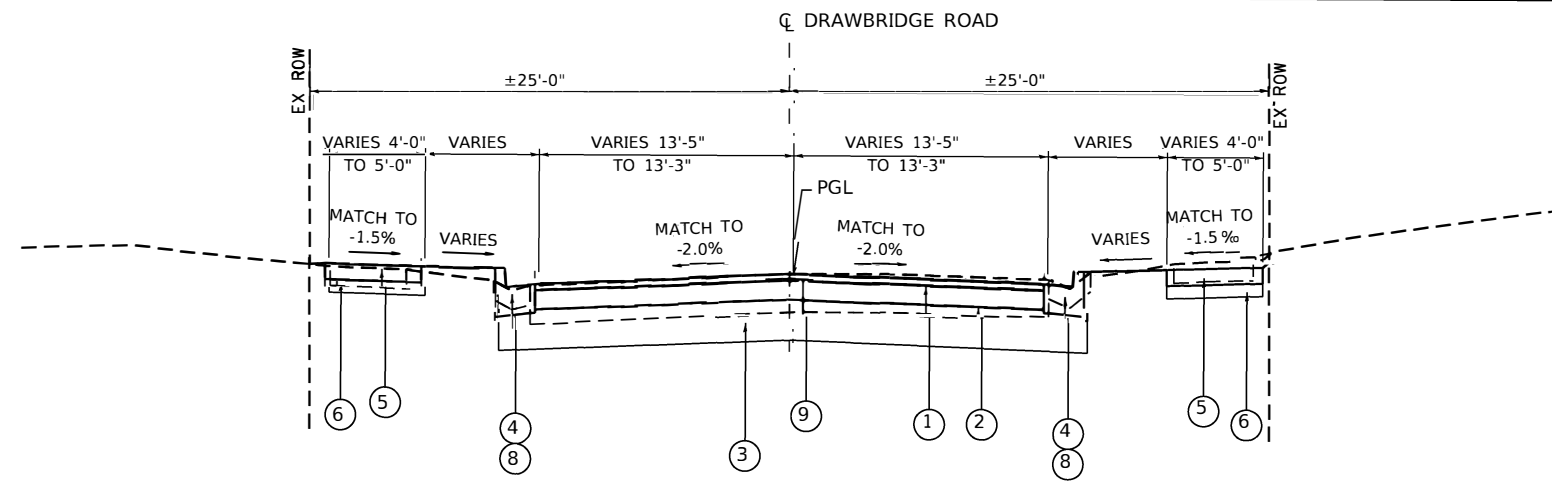
**EXISTING TYPICAL SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH**

SCALE: 1"=5' SHEET 1 OF 1 SHEETS STA. 5+00.00 TO STA. 6+50.00

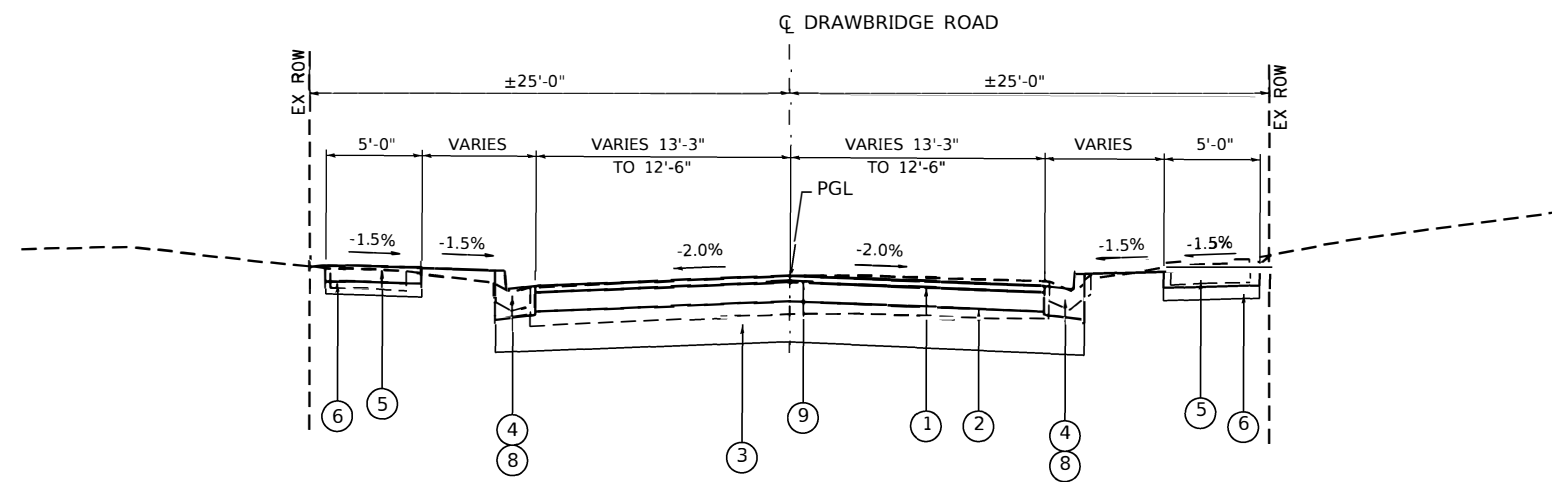
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7490	19-00485-00-BR	SANGAMON	39	8
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

LEGEND

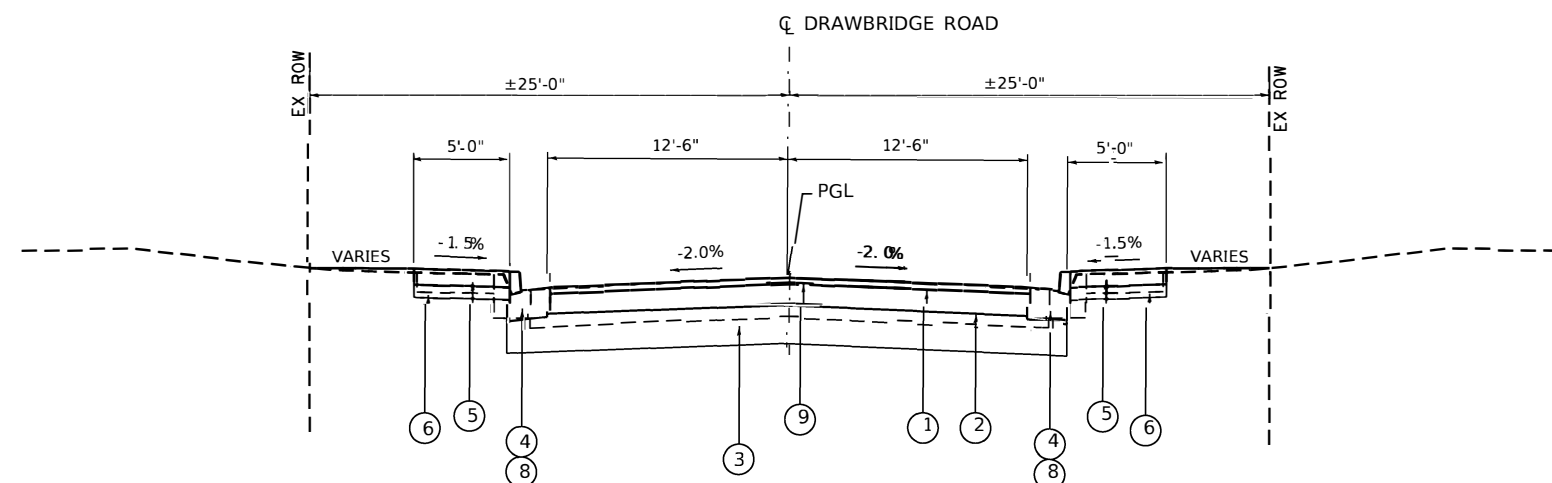
- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 (2")
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (6")
- ③ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ④ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑦ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
- ⑧ TRANSITION TO EXISTING GUTTER
- ⑨ LONGITUDINAL JOINT SEALANT



PROPOSED TYPICAL SECTION
STA. 5+00.00 TO STA. 5+10.00
(LOOKING NORTH)



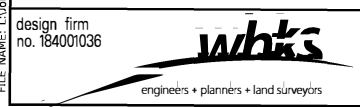
PROPOSED TYPICAL SECTION
STA. 5+10.00 TO STA. 5+40.00
(LOOKING NORTH)



PROPOSED TYPICAL SECTION
STA. 5+40.00 TO STA. 5+56.05
(LOOKING NORTH)

OMISSIONS:
BRIDGE
STA. 5+56.05 TO STA. 6+00.95 (SN 084-6405)

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USER NAME = \$OPERATOR\$	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 10.0000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

PROPOSED TYPICAL SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

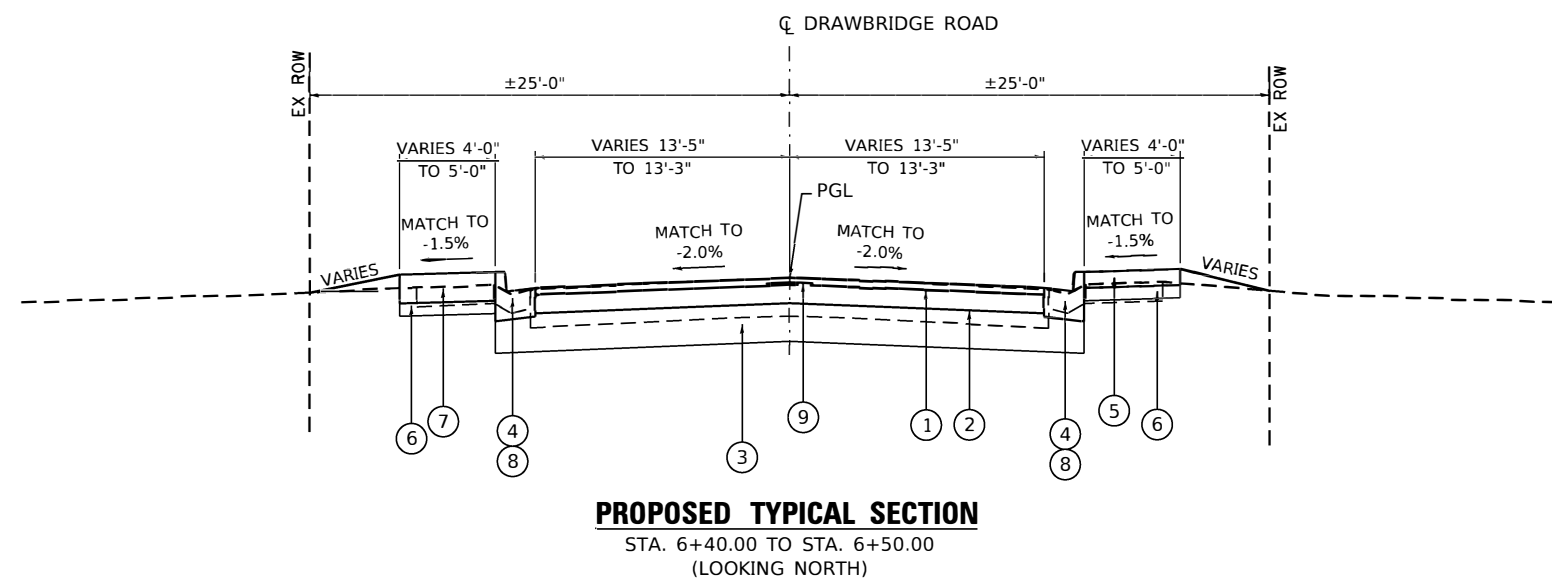
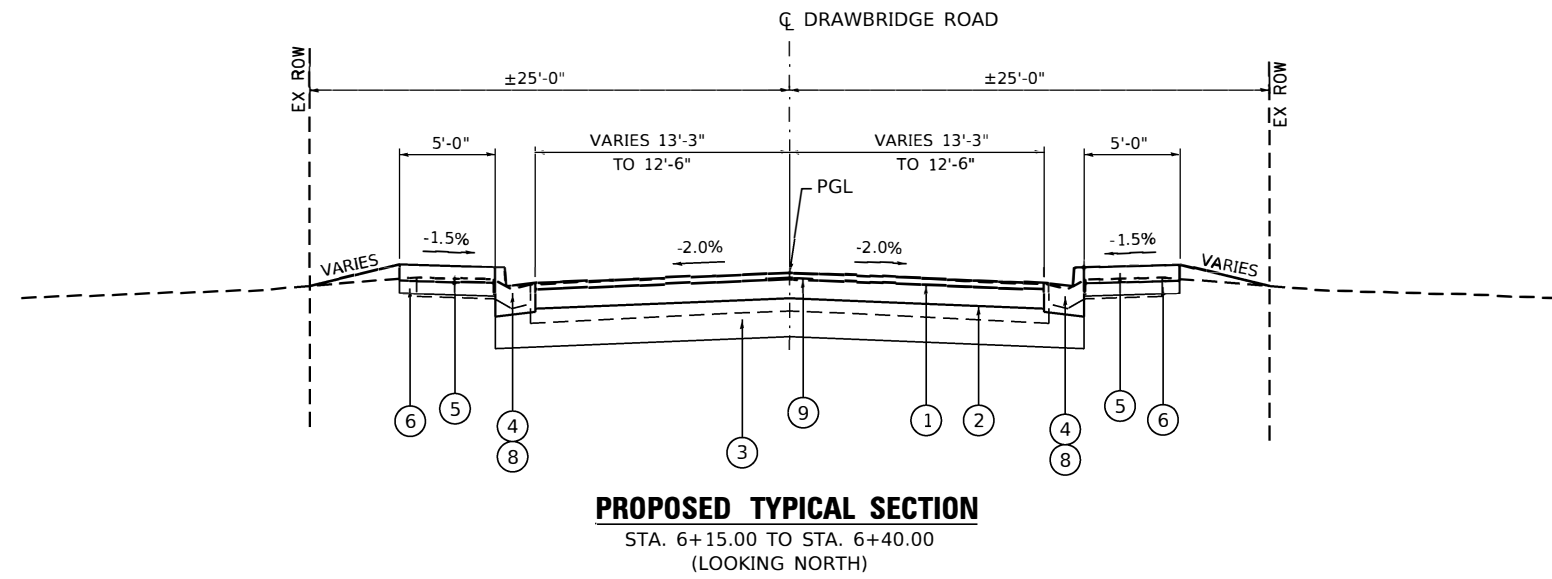
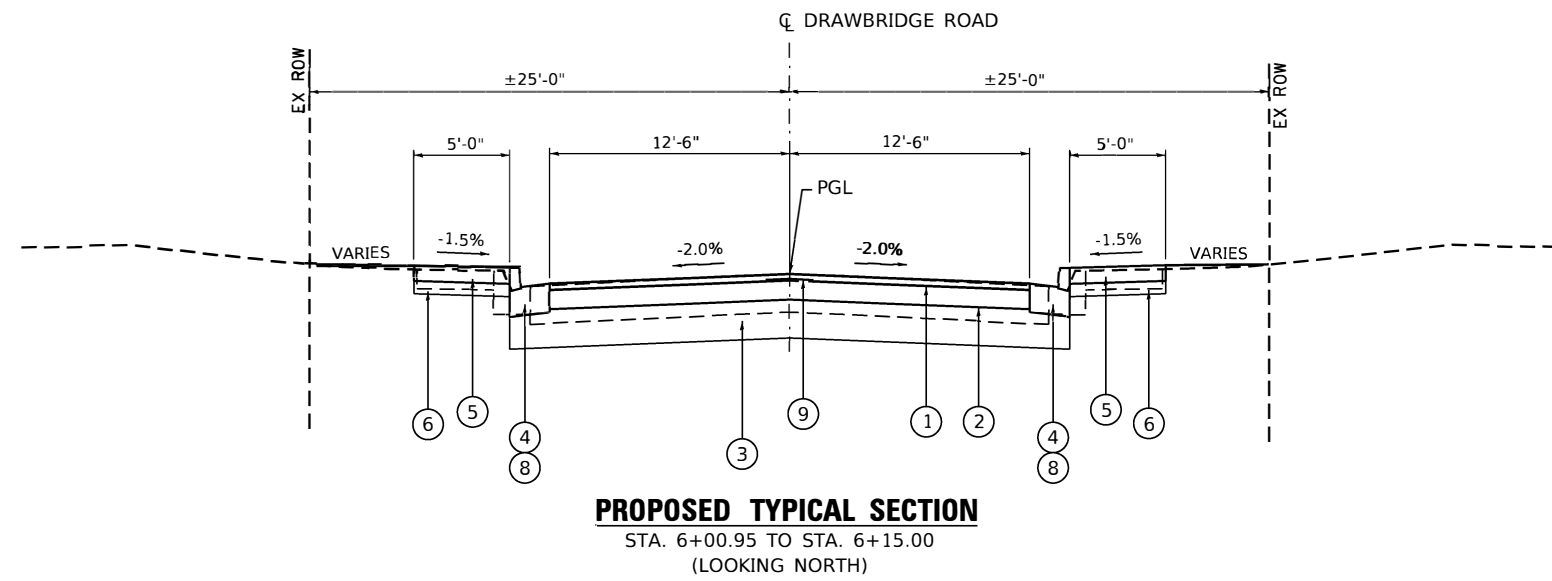
SCALE: 1"=5' | SHEET 1 OF 2 SHEETS | STA. 5+00.00 TO STA. 6+50.00

M.S. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	9
CONTRACT NO. 93751				

ILLINOIS FED. AID PROJECT

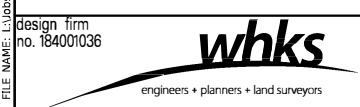
LEGEND

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 (2")
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (6")
- ③ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ④ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE B 4"
- ⑦ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
- ⑧ TRANSITION TO EXISTING GUTTER
- ⑨ LONGITUDINAL JOINT SEALANT



OMISSIONS:
BRIDGE
STA. 5+56.05 TO STA. 6+00.95 (SN 084-6405)

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	CHECKED - SDS	REVISED
PLOT SCALE = 10.0000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

PROPOSED TYPICAL SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH
SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. 5+00.00 TO STA. 6+50.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	10
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

LOCATION	20200100	20300100	FOR INFORMATION ONLY		EARTHWORK BALANCE WASTE (+) AND SHORTAGE (-)
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	
STA. 5+00.00 TO STA. 5+56.05	61		46	10	36
STA. 5+56.05 TO STA. 6+00.95		117			
STA. 6+00.95 TO STA. 6+50.00	64		36	8	28
TOTAL	125	117	82	18	64

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

MS 7490 (DRAWBRIDGE RD.)	UNIT
34.3' RT 5+82.00	15
TOTAL	15

20800150 TRENCH BACKFILL

MS 7490 (DRAWBRIDGE RD.)	CU YD
RT 5+10.00	1.7
LT 5+10.00	0.9
LT 6+18.50	1.1
TOTAL	3.7

***ESTIMATED PER STORM SEWER TABLES

28000250 TEMPORARY EROSION CONTROL SEEDING

MS 7490 (DRAWBRIDGE RD.)	POUND
LT 5+52.15 TO LT 5+52.15	3
RT 5+59.95 TO RT 5+59.95	3
LT 6+50.00 TO LT 6+50.00	3
RT 6+50.00 TO RT 6+50.00	3
TOTAL	12

28000400 PERIMETER EROSION BARRIER

MS 7490 (DRAWBRIDGE RD.)	FOOT
LT 5+00.00 TO LT 5+52.15	89
RT 5+00.00 TO RT 5+59.95	101
LT 5+97.05 TO LT 6+50.00	96
RT 6+04.85 TO RT 6+50.00	89
TOTAL	375

28000500 INLET AND PIPE PROTECTION

MS 7490 (DRAWBRIDGE RD.)	EACH
13.2' LT 5+10.00	1
13.2' RT 5+10.00	1
12.9' LT 5+25.50	1
12.9' RT 5+25.50	1
12.6' LT 6+18.50	1
12.6' RT 6+18.50	1
12.8' LT 6+26.50	1
12.6' RT 6+18.50	1
TOTAL	8

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

MS 7490 (DRAWBRIDGE RD.)	SQ YD
CL 5+00.00 TO CL 5+56.05	187
CL 6+00.95 TO CL 6+50.00	163
TOTAL	350

31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"

MS 7490 (DRAWBRIDGE RD.)	SQ YD
LT 5+00.00 TO LT 5+52.15	29
RT 5+00.00 TO RT 5+59.95	34
LT 5+97.05 TO LT 6+50.00	30
RT 6+04.85 TO RT 6+50.00	25
TOTAL	118

40600275 BITUMINOUS MATERIALS (PRIME COAT)

MS 7490 (DRAWBRIDGE RD.)	POUND
CL 5+00.00 TO CL 5+56.05	361
CL 6+00.95 TO CL 6+50.00	316
TOTAL	677

40600290 BITUMINOUS MATERIALS (TACK COAT)

MS 7490 (DRAWBRIDGE RD.)	POUND
CL 5+00.00 TO CL 5+56.05	72
CL 6+00.95 TO CL 6+50.00	63
TOTAL	135

40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50

MS 7490 (DRAWBRIDGE RD.)	TON
CL 5+00.00 TO CL 5+56.05	54
CL 6+00.95 TO CL 6+50.00	48
TOTAL	102

40604150 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50

MS 7490 (DRAWBRIDGE RD.)	TON
CL 5+00.00 TO CL 5+56.05	18
CL 6+00.95 TO CL 6+50.00	16
TOTAL	34

42300400 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH

MS 7490 (DRAWBRIDGE RD.)	SQ YD
LT 6+40.00 TO LT 6+50.00	5
TOTAL	5

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

MS 7490 (DRAWBRIDGE RD.)	SQ FT
LT 5+00.00 TO LT 5+52.15	253
RT 5+00.00 TO RT 5+59.95	298
LT 5+97.05 TO LT 6+50.00	263
RT 6+04.85 TO RT 6+50.00	217
TOTAL	1,031

44000100 PAVEMENT REMOVAL

MS 7490 (DRAWBRIDGE RD.)	SQ YD
CL 5+00.00 TO CL 5+65.96	203
CL 5+89.75 TO CL 6+50.00	186
TOTAL	389

MODEL: D:\p1\184001036\Drawbridge_Rd\CADD\CAD_Sheets\8735-sh-schedule.dgn

design firm
no. 184001036



USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
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PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

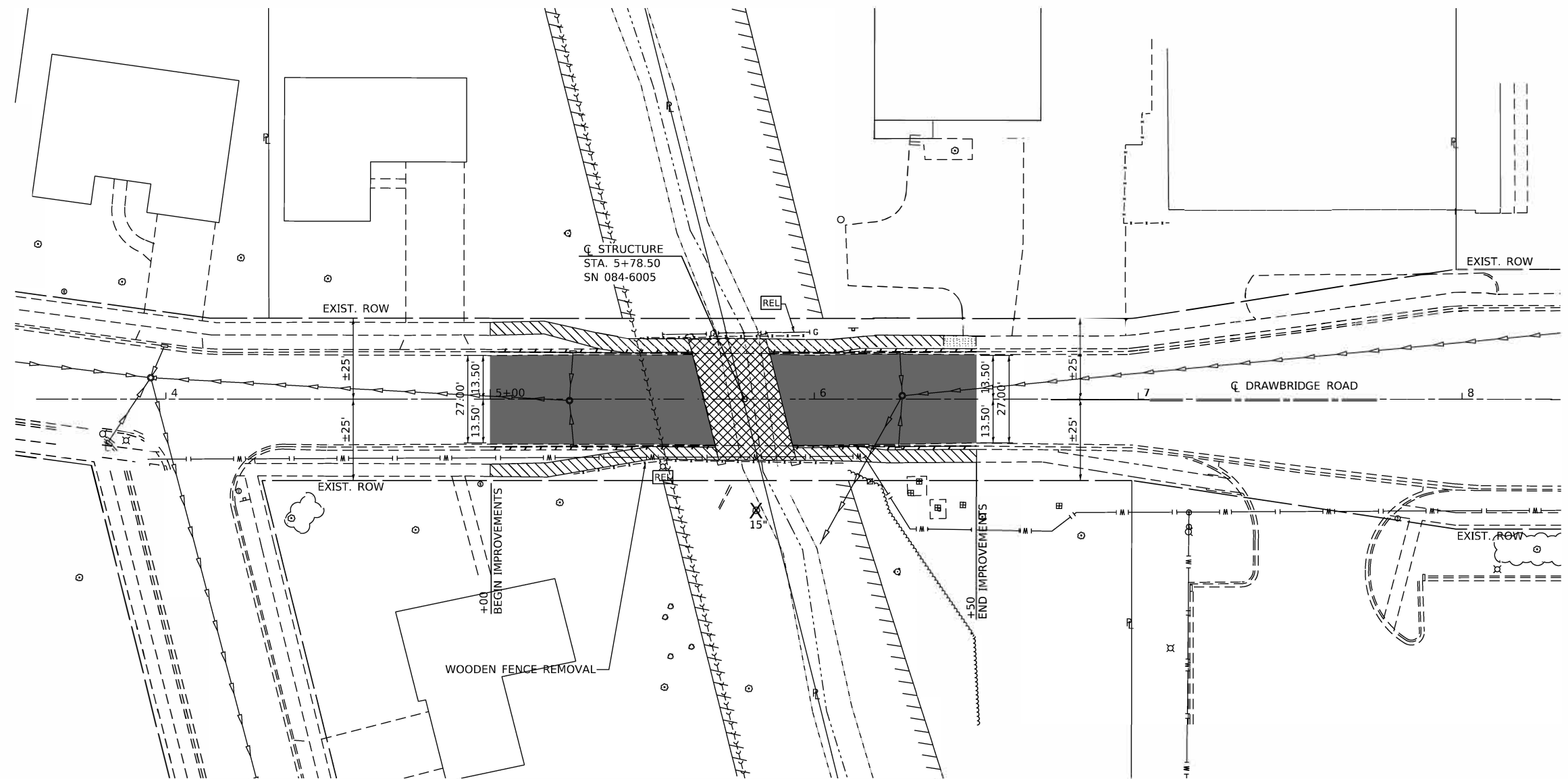
**SCHEDULE OF QUANTITIES
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	11
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

REMOVAL LEGEND

-  TREE REMOVAL
-  PAVEMENT REMOVAL (44000100)
-  DRIVEWAY PAVEMENT REMOVAL (44000200)
-  GUTTER REMOVAL (44000400)
-  SIDEWALK REMOVAL (44000600)
-  REMOVAL OF EXISTING STRUCTURES (50100100)
-  ADJUST
-  REMOVAL
-  RELOCATE
-  BY OTHERS



MODEL: Default
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design firm
no. 184001036



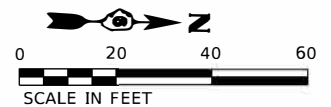
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	CHECKED - SDS	REVISED
PLOT SCALE = 40.0000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

**REMOVAL PLAN
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH**

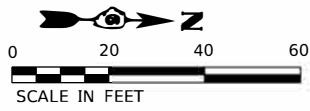
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 5+00.00 TO STA. 6+50.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	13
CONTRACT NO. 93751				



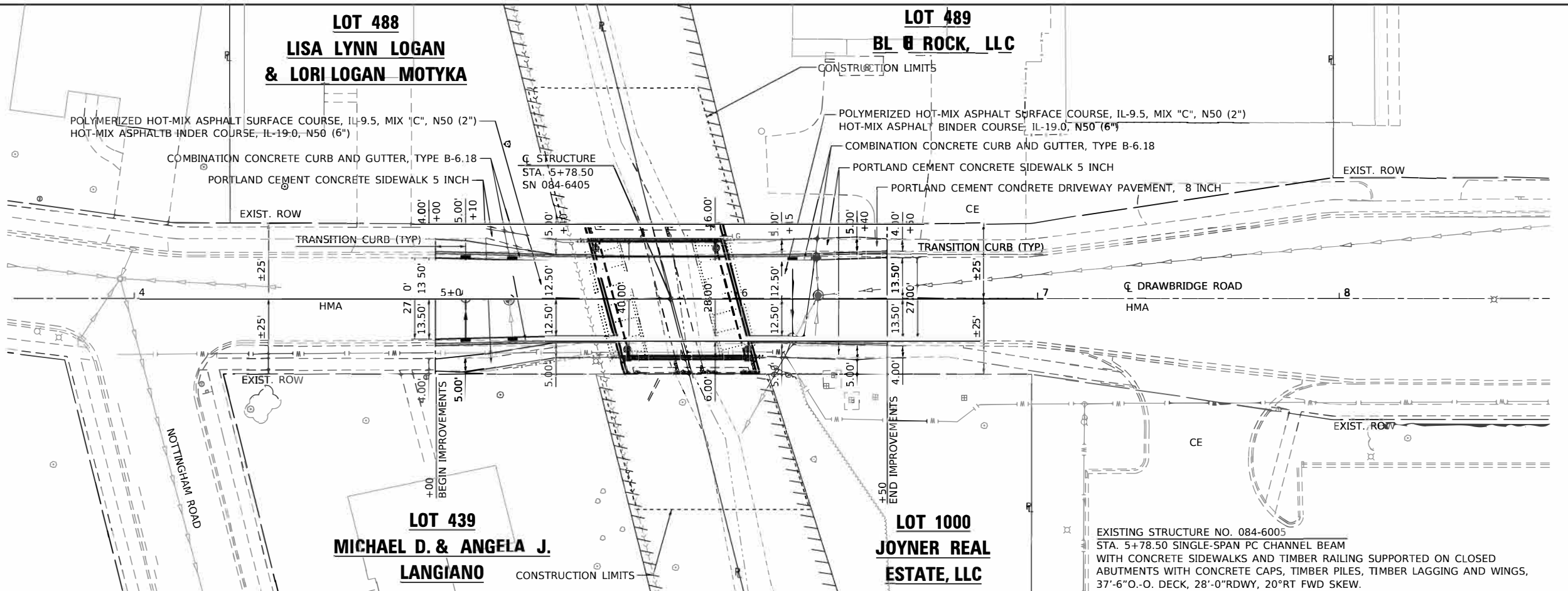
SCALE IN FEET

ILLINOIS FED. AID PROJECT

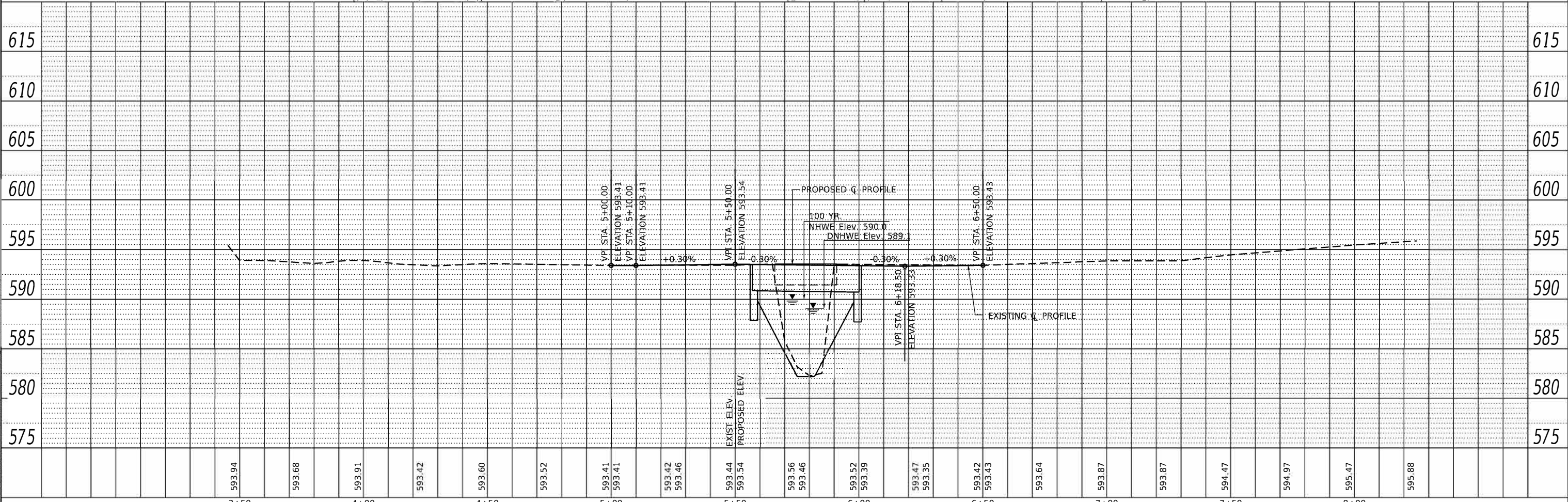


PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNED/CHECKED	
	GRADE/CHECKED	
	STRUCTURE NOTATION/CHECKED	
NOTE BOOK NO.		
DATE		

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION/CHECKED	
NOTE BOOK NO.		
DATE		



EXISTING STRUCTURE NO. 084-6005
 STA. 5+78.50 SINGLE-SPAN PC CHANNEL BEAM
 WITH CONCRETE SIDEWALKS AND TIMBER RAILING SUPPORTED ON CLOSED
 ABUTMENTS WITH CONCRETE CAPS, TIMBER PILES, TIMBER LAGGING AND WINGS,
 37'-6" O.-O. DECK, 28'-0" RDWY, 20° RT FWD SKEW.



Design firm
 no. 184001036

 engineers + planners + land surveyors

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
CHECKED - SDS	REVISED	
PLOT SCALE = 40,000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED



CITY OF SPRINGFIELD

PLAN AND PROFILE
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 5+00.00 TO STA. 6+50.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	14
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PERIMETER EROSION BARRIER
-  INLET & PIPE PROTECTION

LOT 488
LISA LYNN LOGAN
& LORI LOGAN MOTYKA

LOT 489
BLUE ROCK, LLC

Q STRUCTURE
STA. 5+78.50
SN 084-6005

CONSTRUCTION LIMITS

EXIST. ROW

EXIST. ROW

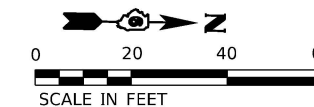
Q DRAWBRIDGE ROAD

EXIST. ROW

EXIST. ROW

LOT 439
MICHAEL D. & ANGELA J.
LANGIANO

LOT 1000
JOYNER REAL
ESTATE, LLC



MODEL: D:\projects\Springfield_City_e08755_Drawbridge_Rd\CADD\CAN_Streets\8755-sh-grade.dgn

design firm
no. 184001036



USER NAME = \$OPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 40.0000' / in.	DRAWN - GSI	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND GRADING PLAN
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

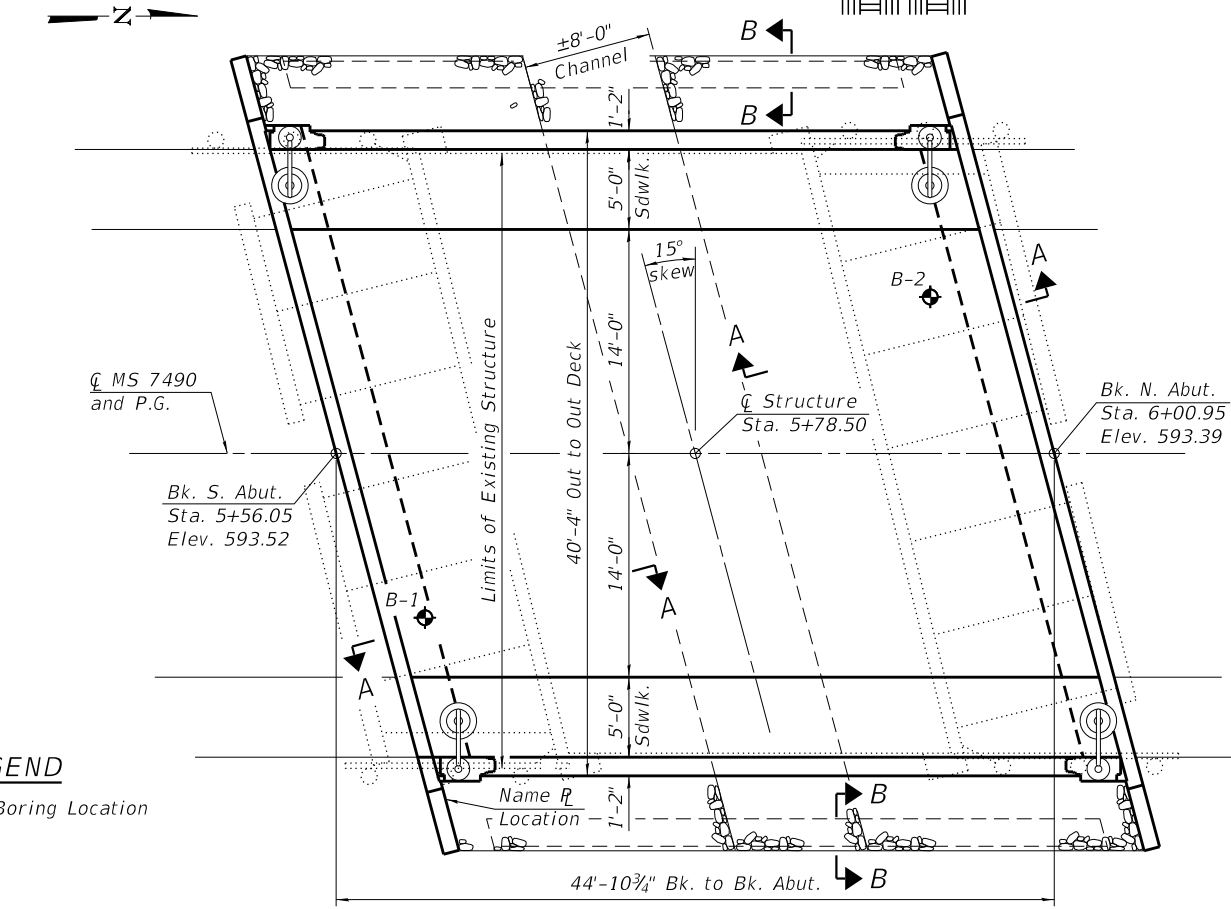
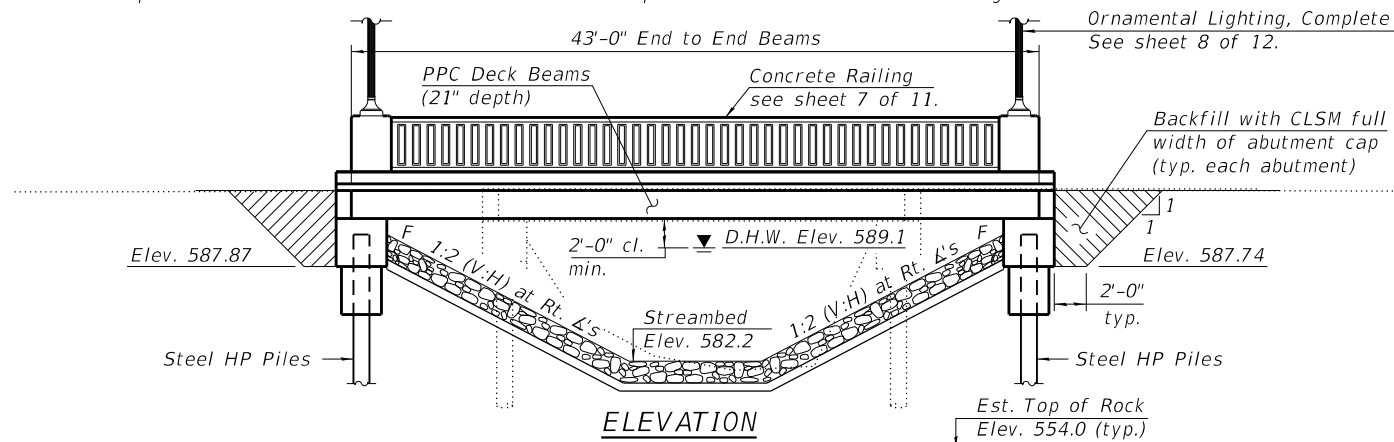
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M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	16
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

Benchmark: Stamped "M" Mueller on fire hydrant at southeast corner of Drawbridge Road and Nottingham Road. Elev. 595.65

Existing Structure: SN 084-6005 Originally constructed in 1971 is a single span channel beam bridge on concrete cap on creosoted piles. The bridge is 25'-6" back-to-back of abutments and the out-to-out bridge width is 37'-6". The timber piles at the abutments were repaired in 2018. Structure is to be removed and replaced. Road is to be closed during construction.

Salvage: None



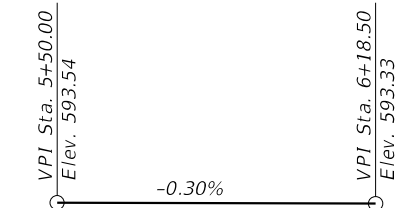
LEGEND
 Soil Boring Location

WATERWAY INFORMATION TABLE

Flood Event	Frequency Year	Discharge cfs	Waterway Opening (sq ft)		Natural H.W.E.	Head (ft)		Headwater Elev. (ft)	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Existing Low Grade Elevation: 593.42 ft. at Sta. 05+25.00									
Proposed Low Grade Elevation: 593.33 ft. at Sta. 06+18.50									
Drainage Area: 1.90 sq. mi.									
Design	10	690	95	118	588.2	0.4	0.0	588.6	588.2
	30	910	115	148	589.1	0.5	0.0	589.6	589.1
	50	1010	122	159	589.4	0.6	0.1	590.0	589.5
Base	100	1160	135	196	590.0	0.7	0.1	590.7	590.1
Check	200	1330	148	220	590.6	0.8	0.1	591.4	590.7
Max. Calc.	500	1600	169	268	591.7	1.0	0.4	592.7	592.1

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elev. (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	587.87	587.74	8
Q200	587.87	587.74	
Design	587.87	587.74	
Check	587.87	587.74	



PROPOSED PROFILE GRADE
(Along C MS 7490)

DESIGN SPECIFICATIONS
 2017 AASHTO LRFD Bridge Design Specifications 8th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 5,000$ psi (Concrete Wearing Surface)
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

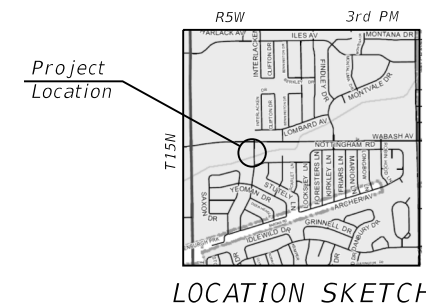
$f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " low lax strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.153g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.274g
 Soil Site Class = D

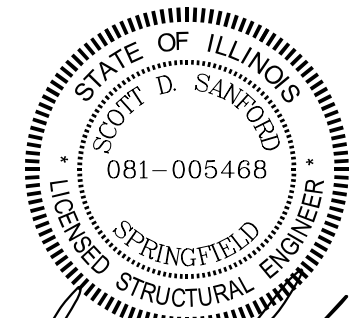
JACKSONVILLE BRANCH
 BUILT 20 BY
 CITY OF SPRINGFIELD
 SEC. 19-00485-00-BR
 MS 7490 STATION 5+78.50
 STR. NO. 084-6405 LOADING HL-93

NAME PLATE
 See Std. 515001



INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. 21" x 48" PPC Deck Beam
4. 21" x 48" PPC Deck Beam Details
5. Superstructure Details
6. Superstructure Details
7. Concrete Rail
8. Ornamental Lighting Details
9. South Abutment
10. North Abutment
11. HP Pile Details
12. Boring Logs



Expires: 11/30/2020
 I certify that to the best of my 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 LRFD Bridge Design Specifications.

GENERAL PLAN AND ELEVATION
MS 7490 (DRAWBRIDGE ROAD)
SECTION 19-00485-00-BR
SANGAMON COUNTY
STATION 5+78.50
STRUCTURE NO. 084-6405



USER NAME = dheberling	DESIGNED - SDS	REVISED
FILE NAME = SN 084-6405.dgn	CHECKED - BJJ	REVISED
PLOT SCALE = 0.2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 8/31/2020	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

SHEET NO. 1 OF 12 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	17
CONTRACT NO.				

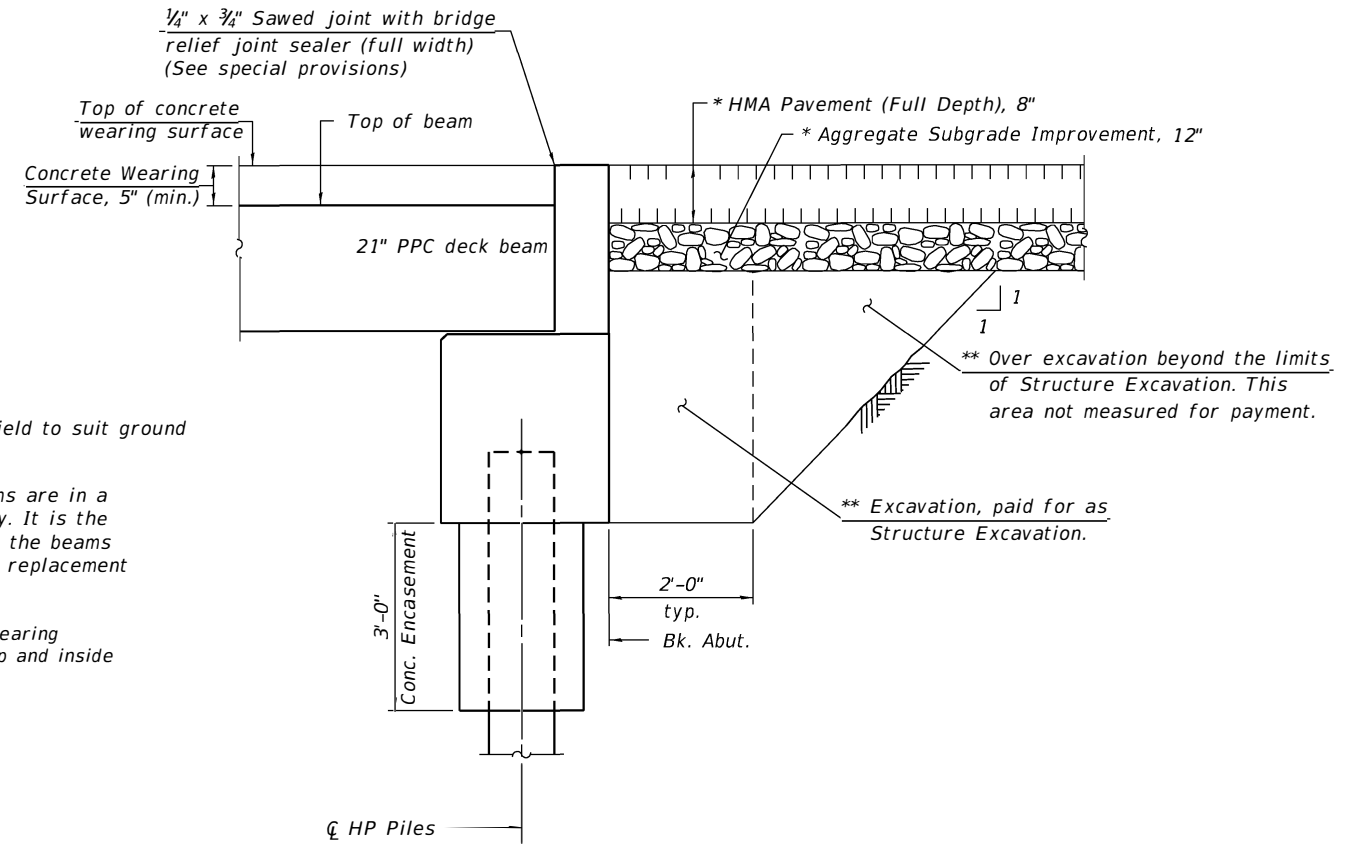
ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		244	244
Filter Fabric	Sq. Yd.		244	244
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		85.2	85.2
Concrete Structures	Cu. Yd.		41.4	41.4
Concrete Superstructure	Cu. Yd.	14.7		14.7
Bridge Deck Grooving	Sq. Yd.	130		130
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	240		240
Concrete Wearing Surface, 5"	Sq. Yd.	191		191
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1,720		1,720
Reinforcement Bars, Epoxy Coated	Pound	4,310	5,520	9,830
Concrete Bridge Railing	Foot	86		86
Furnishing Steel Piles HP12x53	Foot		338	338
Driving Piles	Foot		338	338
Test Pile Steel HP12x53	Each		1	1
Name Plates	Each	1		1
Controlled Low-Strength Material	Cu. Yd.		62	62
Channel Excavation	Cu. Yd.		117	117
Conduit Attached to Structure, 2" Dia., Galvanized Steel	Foot	50		50
Conduit Embedded in Structure, 2" Dia., PVC	Foot	100		100
Ornamental Light Unit, Complete	Each	4		4

GENERAL NOTES

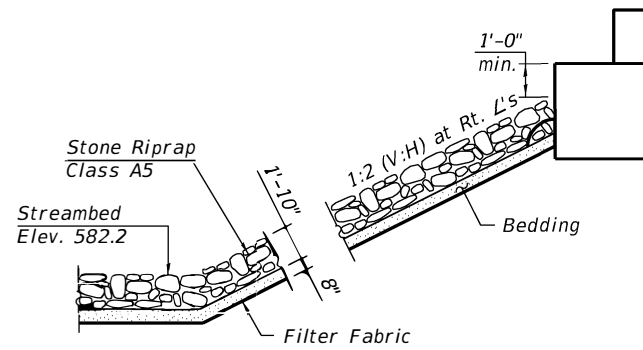
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor is advised that the existing concrete beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the structure.
4. Protective Coat shall be applied to the top of the concrete wearing surface, top and inside faces of the sidewalks and to the top and inside faces of the Concrete Bridge Railings.



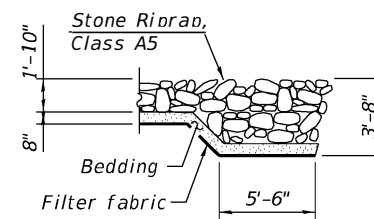
SECTION AT ABUTMENT

(Dimensions are at Rt. L's)

- * See roadway plans.
- ** Backfill with Controlled Low-Strength Material (CLSM) (Mix 2) Full width of abutment.



SECTION A-A



SECTION B-B

LAST SAVED DATE: SLASTSAVEDDATES

FILE NAME: *DGN-SPEC*

design firm
no. 184001036



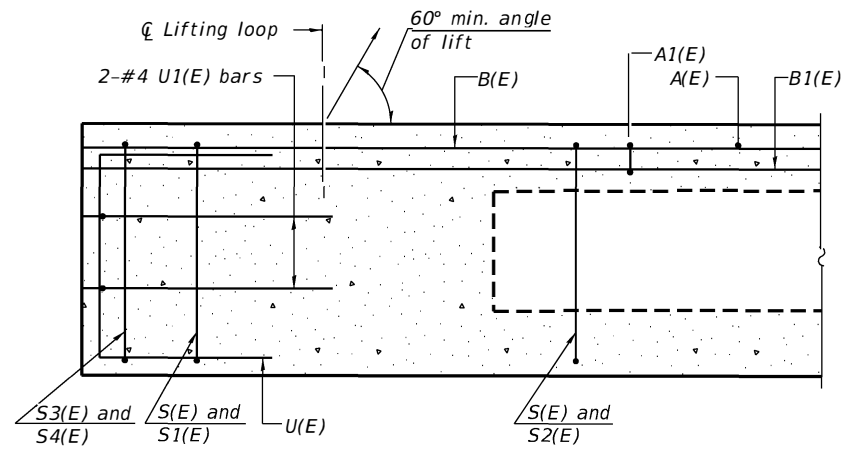
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PLOT DATE = SDATES	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

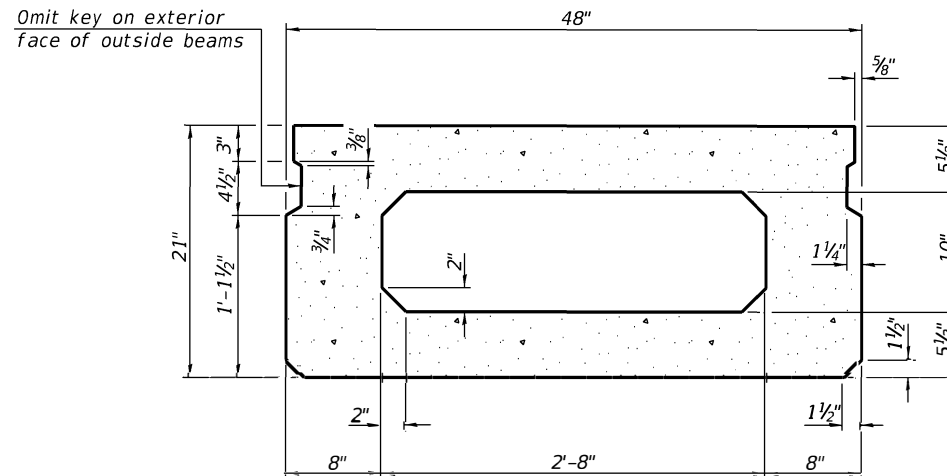
**GENERAL DATA
STRUCTURE NO. 084-6405**

SHEET NO. 2 OF 12 SHEETS

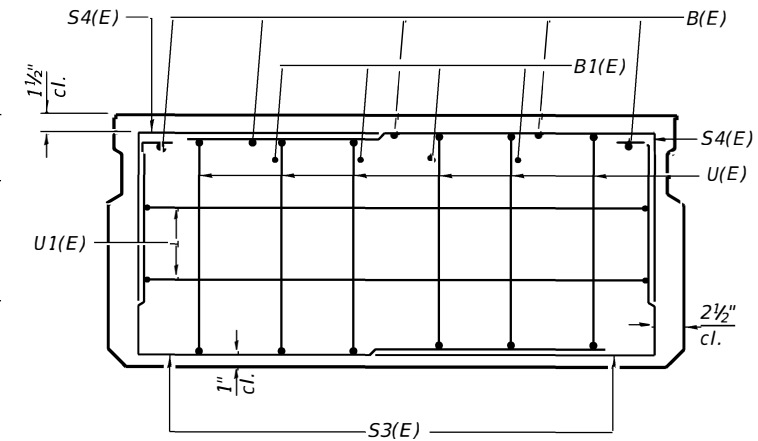
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	18
CONTRACT NO. 93751			ILLINOIS FED. AID PROJECT	



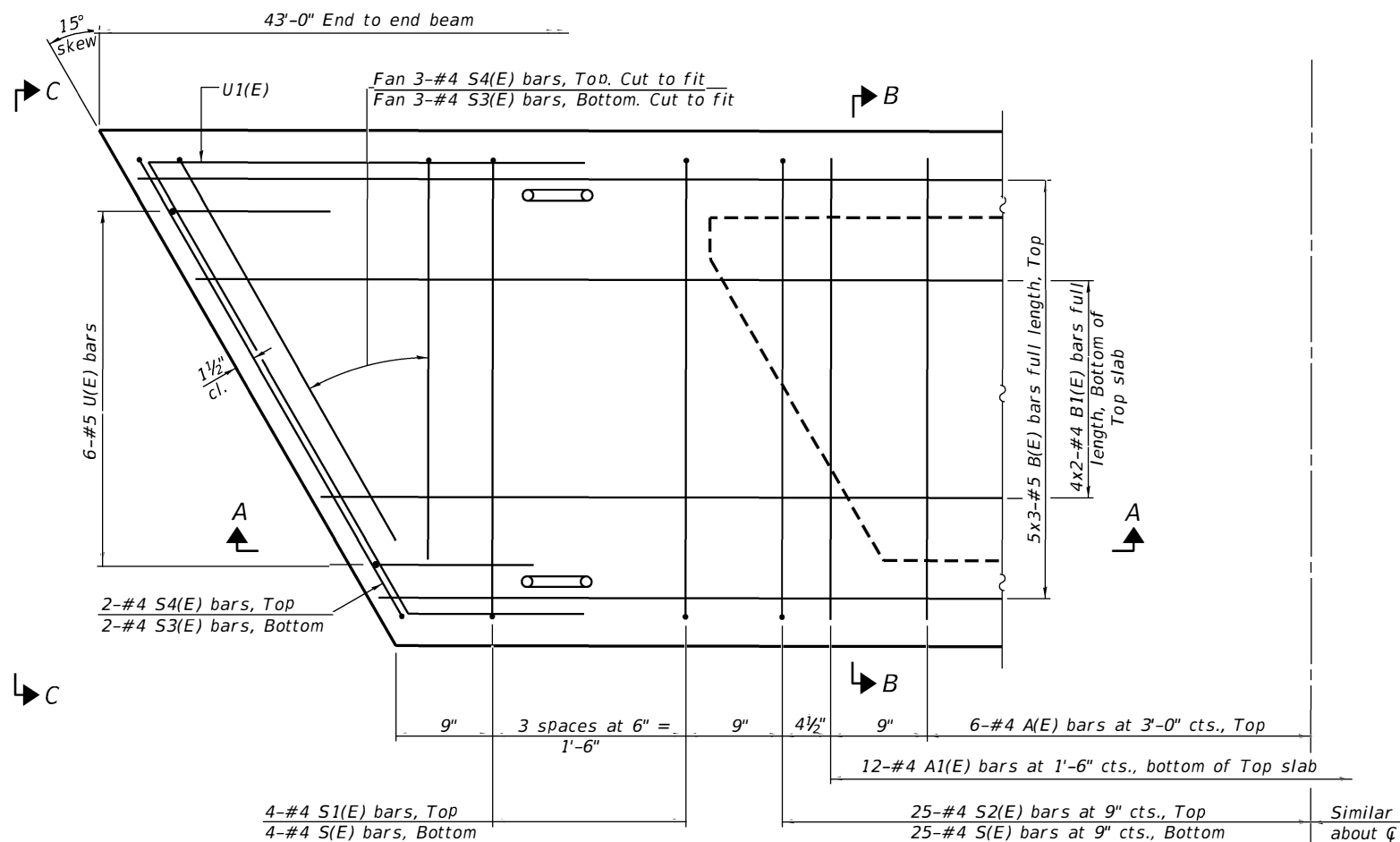
SECTION A-A



SECTION B-B
(Showing dimensions)

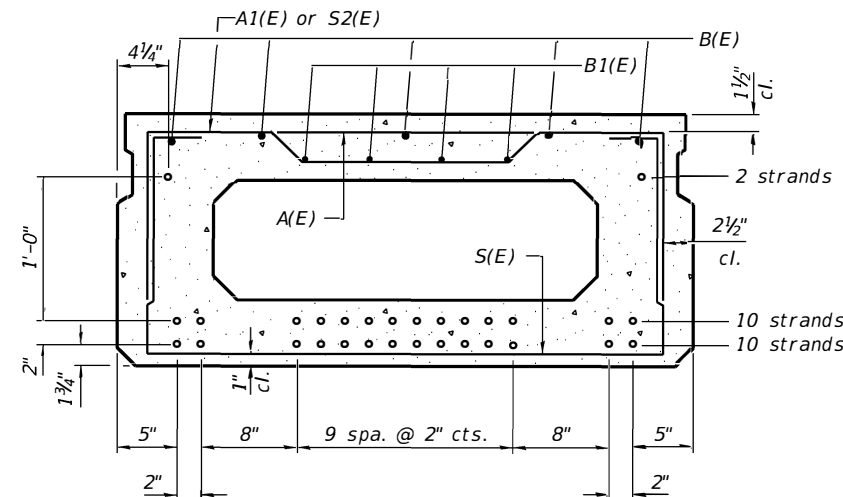


VIEW C-C



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.

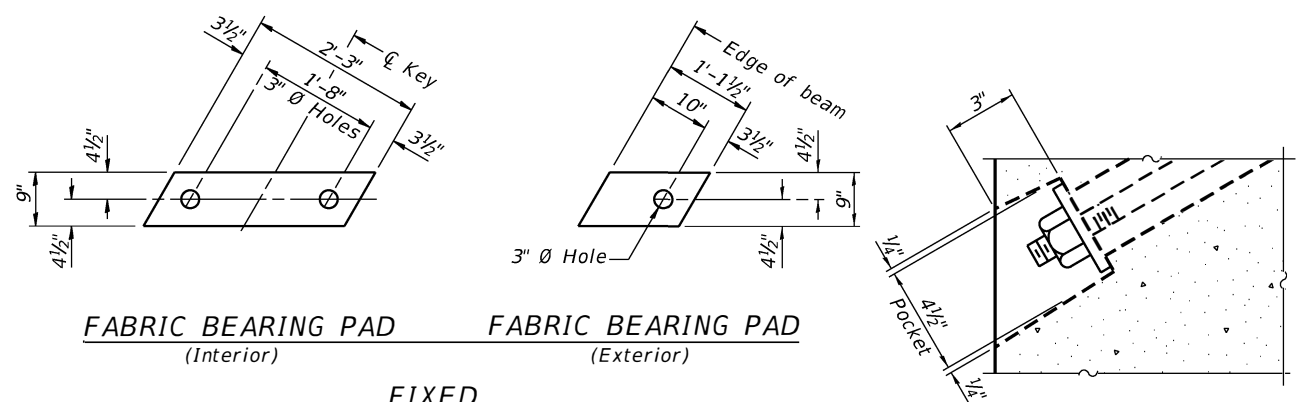
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	15	#5	15'-11"	—
B1(E)	8	#4	22'-4"	—
S(E)	58	#4	7'-5"	⌊
S1(E)	8	#4	5'-11"	⌊
S2(E)	50	#4	6'-2"	⌊
S3(E)	10	#4	4'-9"	⌊
S4(E)	10	#4	4'-0"	⌊
U(E)	12	#5	4'-0"	⌊
U1(E)	4	#4	7'-1"	⌊

Note:
See sheet 4 of 12 for additional details and Bill of Material.

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

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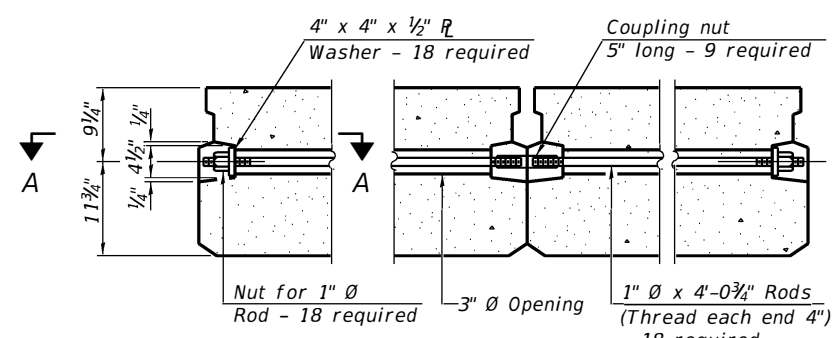


FABRIC BEARING PAD
(Interior) **FABRIC BEARING PAD**
(Exterior)

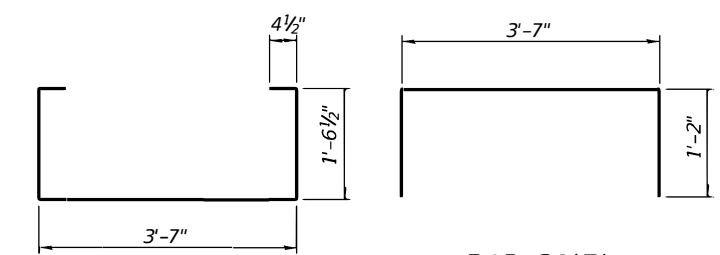
FIXED

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

SECTION A-A

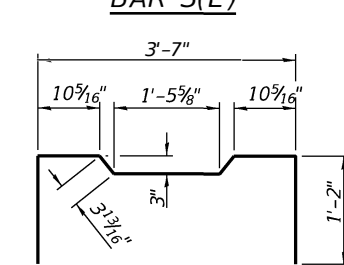


TYPICAL TRANSVERSE TIE ASSEMBLY



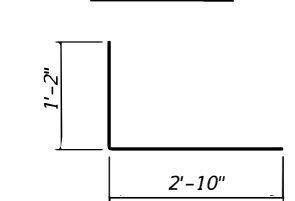
BAR S(E)

BAR S1(E)



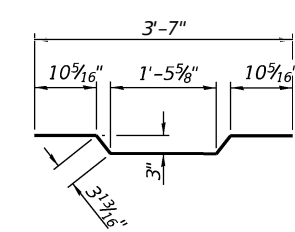
BAR S2(E)

BAR S3(E)



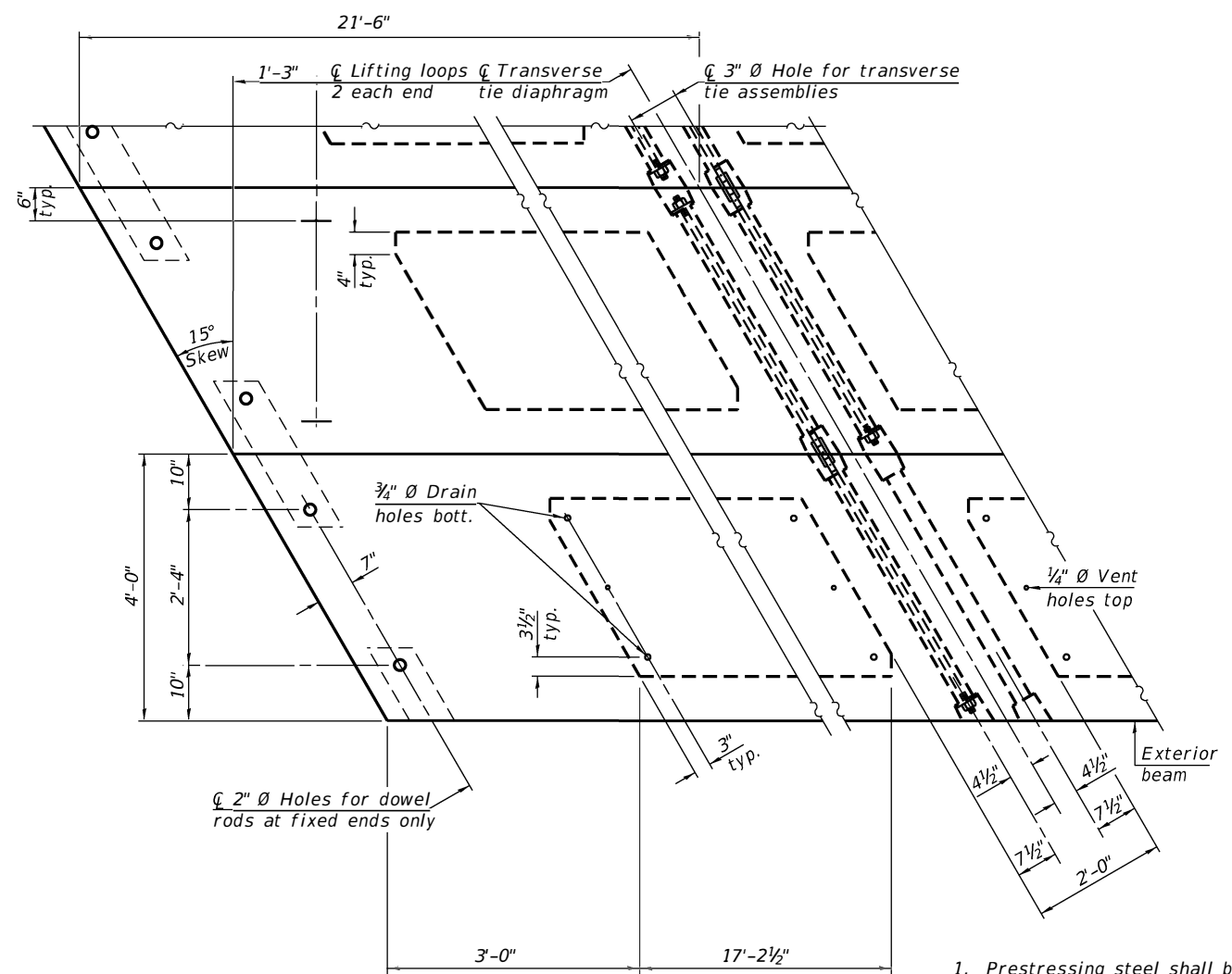
BAR S4(E)

BAR U(E)



BAR A1(E)

BAR U1(E)

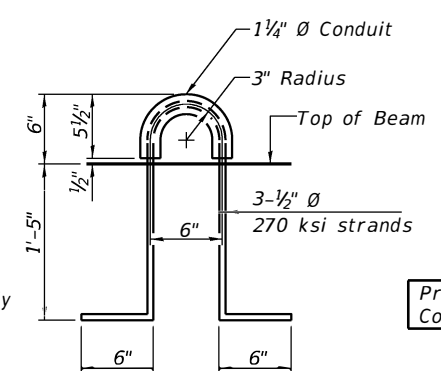


PLAN VIEW

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

NOTES

1. 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.
2. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
3. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
4. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
5. 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.
6. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
7. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,720
---	---------	-------

PD-2148-RD 2-17-2017



USER NAME = SUSERS	DESIGNED - SDS	REVISED
FILE NAME = SFILES	CHECKED - BJJ	REVISED
PLOT SCALE = SCALES	DRAWN - DLH	REVISED
PLOT DATE = SDATES	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

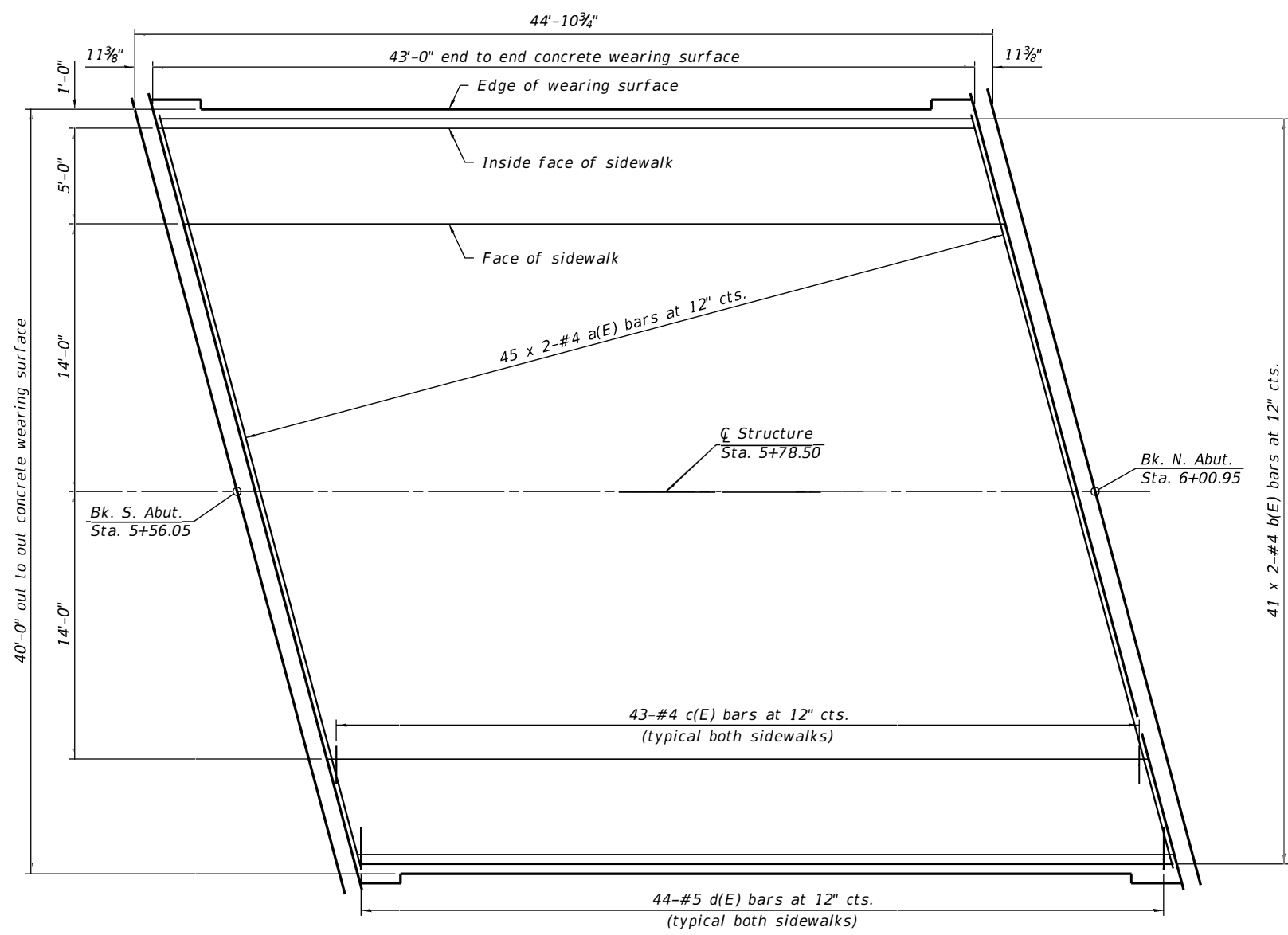
**21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 084-6405**

SHEET NO. 4 OF 12 SHEETS

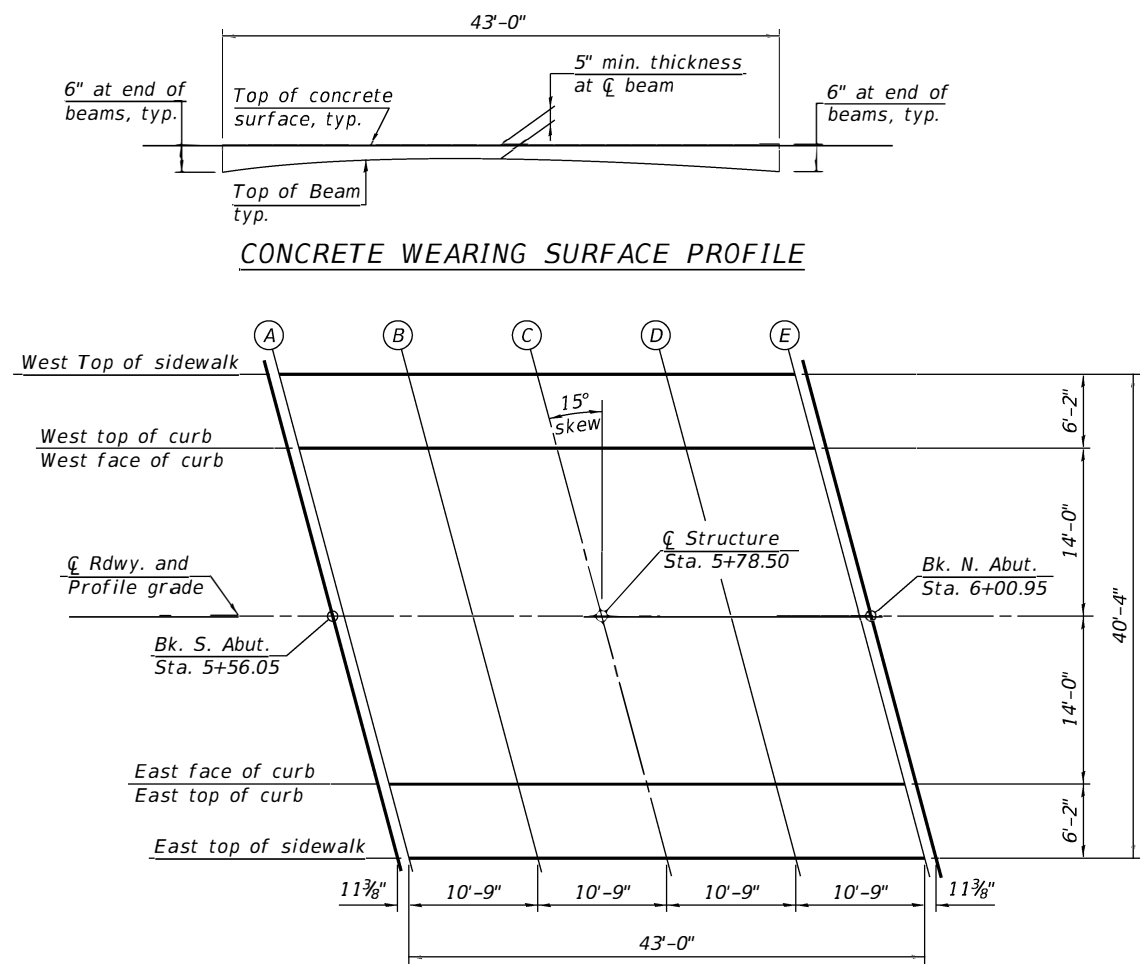
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	20
CONTRACT NO. 93751				

ILLINOIS FED. AID PROJECT

LAST SAVED DATE: 11/25/2014 10:00:00 AM



PLAN
 (Showing Concrete Wearing Surface and Sidewalk)

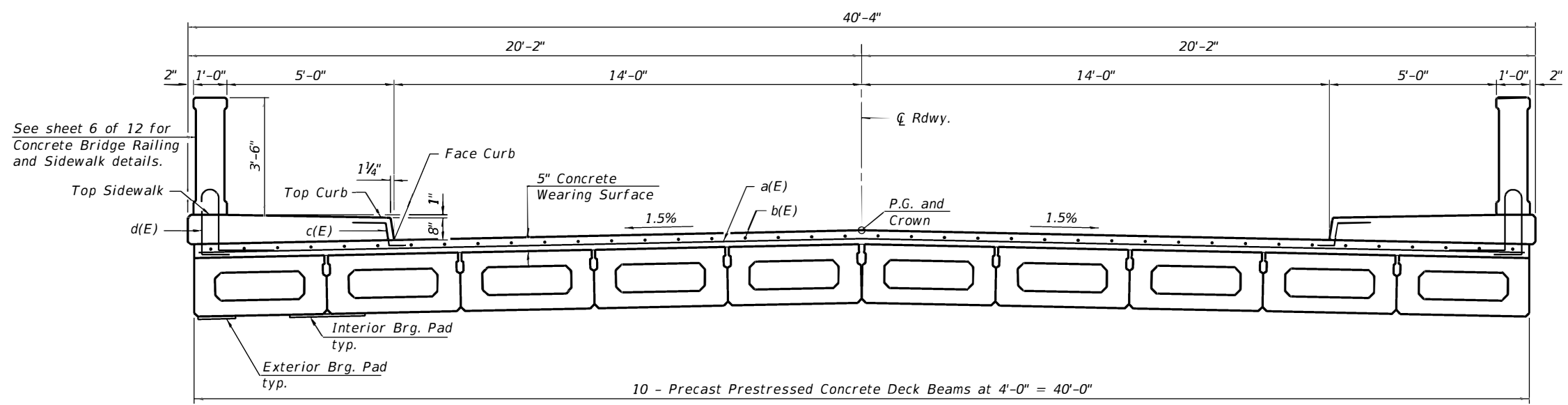


PLAN

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

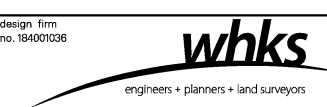
TABLE

Location	A	B	C	D	E
West top of sidewalk	594.07	594.04	594.01	593.97	593.94
West top of curb	593.99	593.96	593.92	593.89	593.86
West face of curb	593.32	593.29	593.26	593.22	593.19
Profile grade	593.52	593.50	593.45	593.42	593.39
East face of curb	593.30	593.27	593.23	593.20	593.17
East top of curb	593.96	593.93	593.90	593.87	593.84
East top sidewalk	594.05	594.02	593.98	593.95	593.92



CROSS SECTION

FILE NAME: *DGN-SPEC*



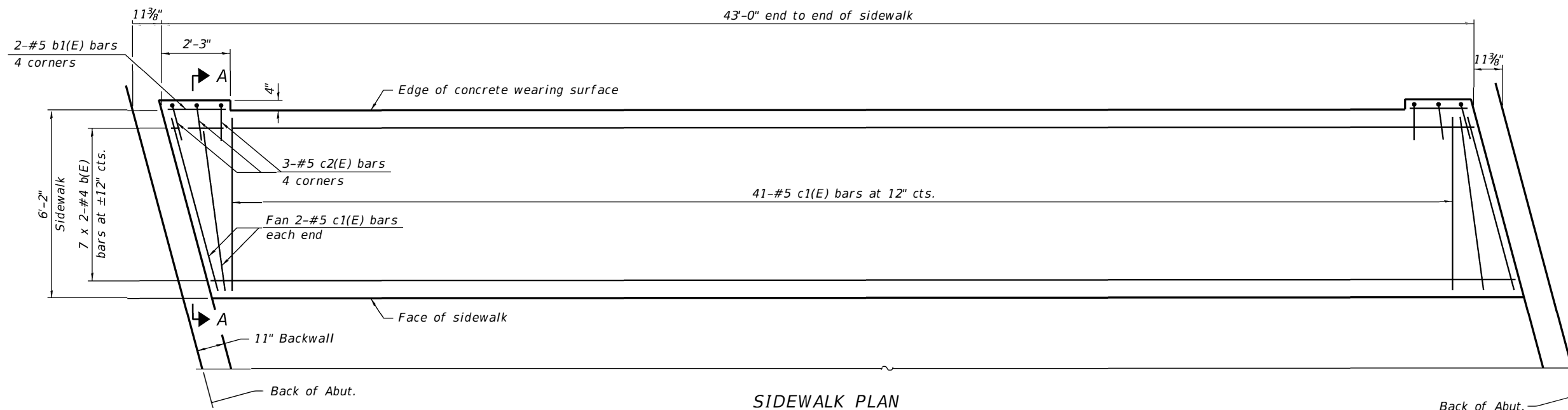
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FILE NAME = SFILES	CHECKED - BJJ	REVISED
PLOT SCALE = SCALES	DRAWN - DLH	REVISED
PLOT DATE = SDATES	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

**SUPERSTRUCTURE
 STRUCTURE NO. 084-6405**

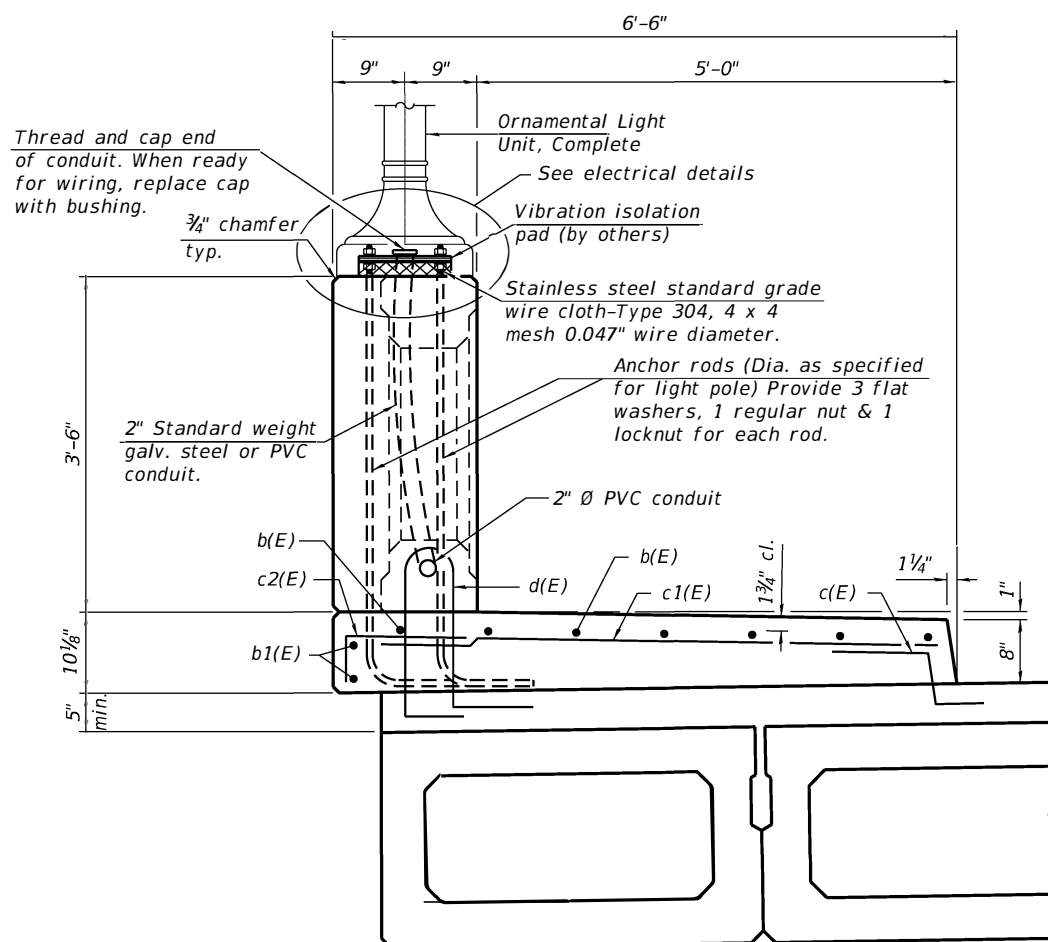
SHEET NO. 5 OF 12 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	21
CONTRACT NO. 93751			ILLINOIS FED. AID PROJECT	

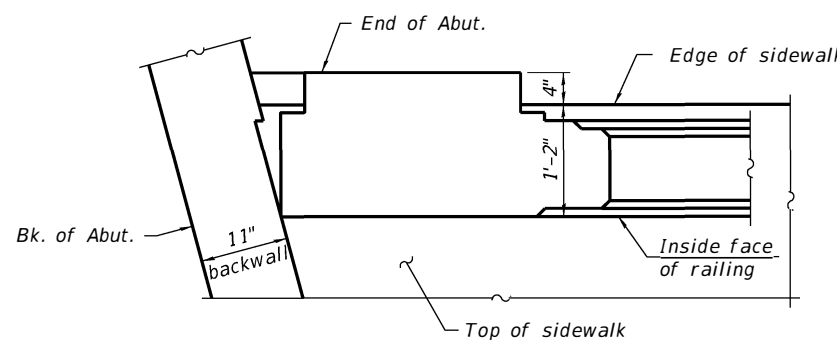


SIDEWALK PLAN

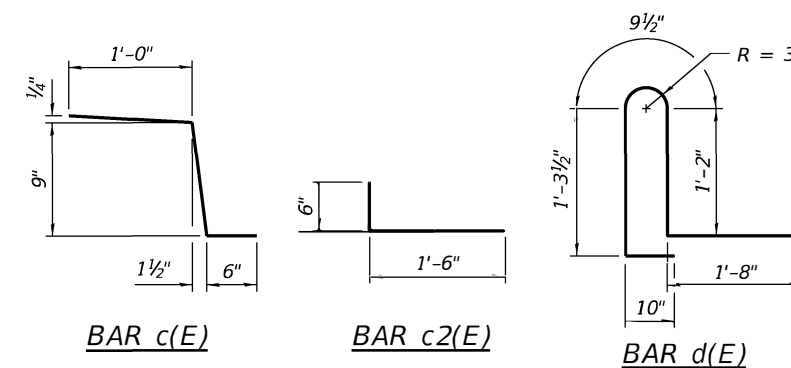
MINIMUM BAR LAP
#4 bar = 2'-7"



SECTION A-A



SIDEWALK AND RAILING PLAN



BAR c(E)

BAR c2(E)

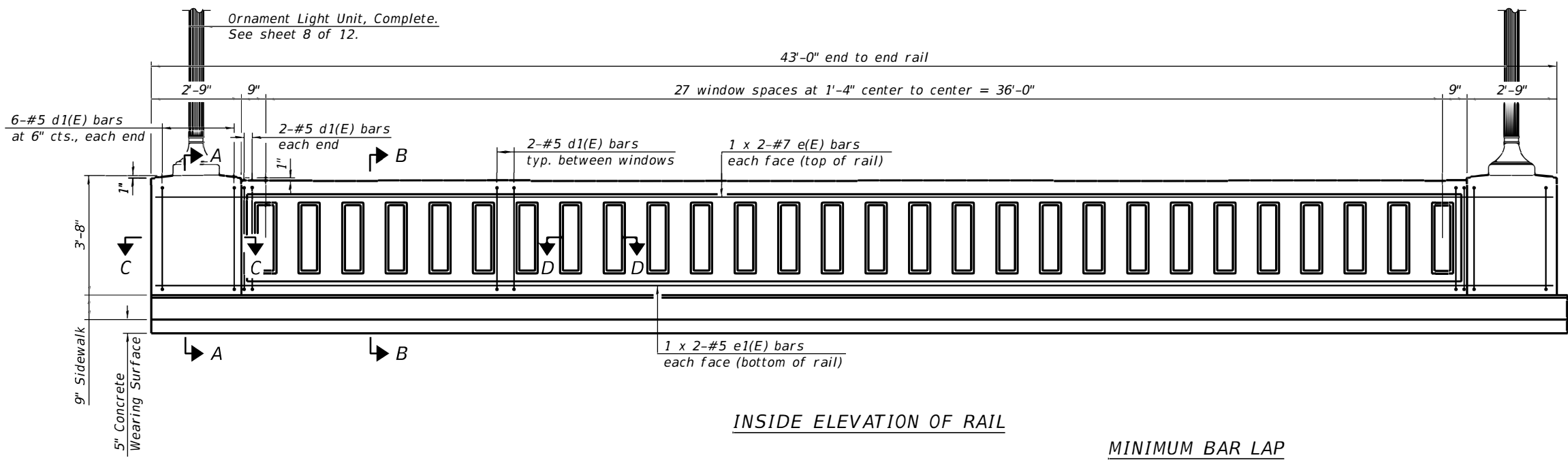
BAR d(E)

CONCRETE WEARING SURFACE AND SIDEWALK BILL OF MATERIAL

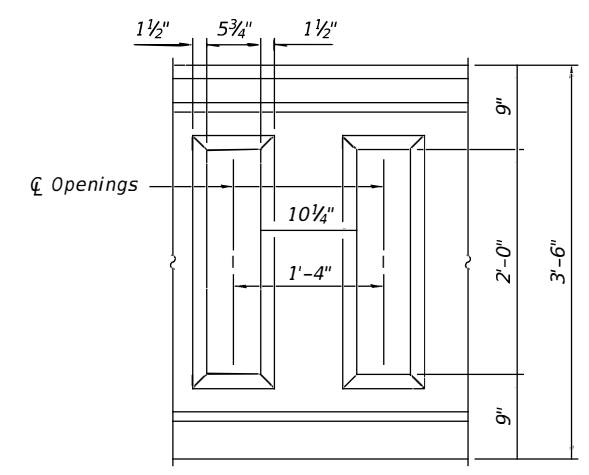
Bar	No.	Size	Length	Shape
a(E)	90	#4	21'-10"	—
b(E)	110	#4	22'-8"	—
b1(E)	8	#5	2'-0"	—
c(E)	86	#5	2'-3"	U
c1(E)	90	#5	5'-11"	—
c2(E)	12	#5	2'-0"	T
d(E)	88	#5	5'-9"	U
Concrete Superstructure			Cu. Yd.	14.7
Concrete Wearing Surface			Sq. Yd.	191
Reinforcement Bars, Epoxy Coated			Pound	4310

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

LAST SAVED DATE: SLASTSAVEDDATES



INSIDE ELEVATION OF RAIL



WINDOW DETAIL

MINIMUM BAR LAP

- #5 bar = 2'-6"
- #7 bar = 3'-11"

Notes:

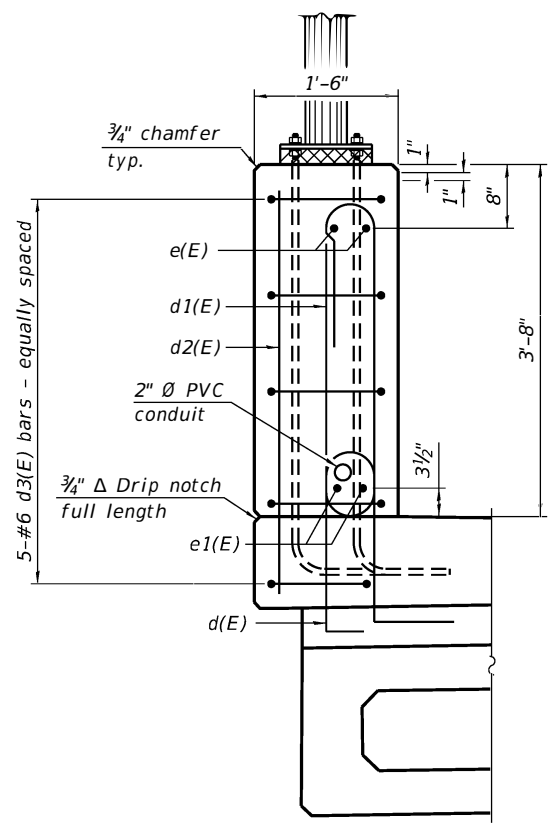
1. All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.
2. All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing.
3. Holes and recesses must be formed or cored. Drilling is not permitted.

**CONCRETE BRIDGE RAILING
BILL OF MATERIAL (1 RAILING)**

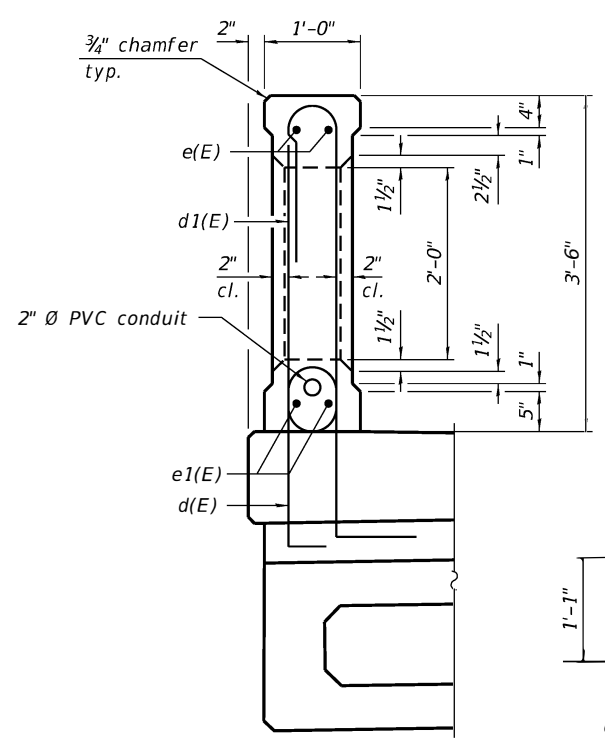
(For information only.)

Bar	No.	Size	Length	Shape
d1(E)	70	#5	8'-5"	
d2(E)	6	#6	3'-3"	
d3(E)	10	#5	4'-9"	
e(E)	4	#7	23'-4"	
e1(E)	4	#5	15'-11"	
Concrete Bridge Railing			Foot	43

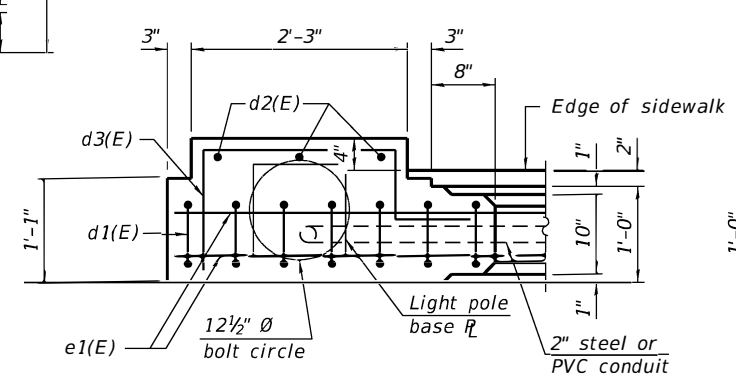
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.



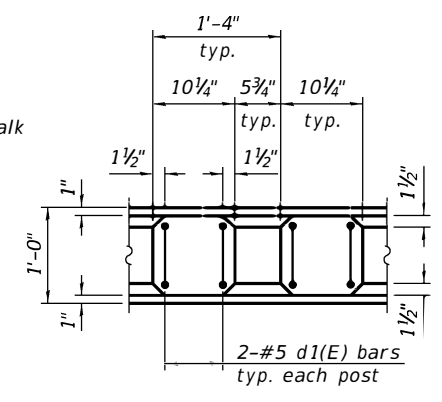
**SECTION A-A
Thru post**



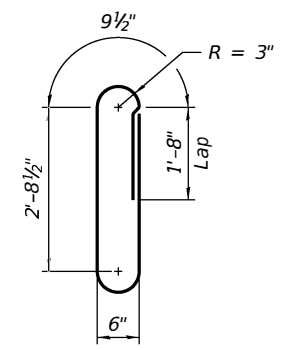
**SECTION B-B
Thru window**



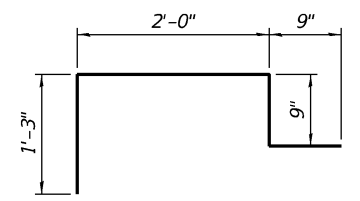
SECTION C-C



SECTION D-D

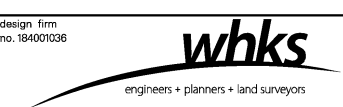


BAR d1(E)



BAR d3(E)

DGN-SPEC



USER NAME = SUSERS	DESIGNED - SDS	REVISED
FILE NAME = SFILES	CHECKED - BJJ	REVISED
PLOT SCALE = SCALES	DRAWN - DLH	REVISED
PLOT DATE = SDATES	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

**CONCRETE BRIDGE RAILING, SIDEWALK MOUNTED
STRUCTURE NO. 084-6405**

SHEET NO. 7 OF 12 SHEETS

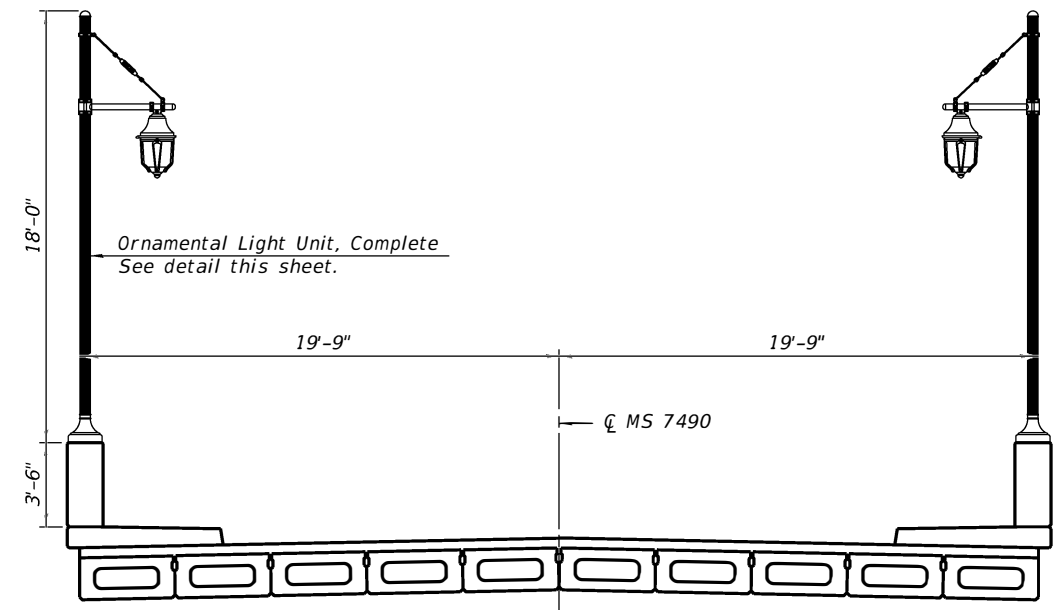
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	23
CONTRACT NO. 93751				

ILLINOIS FED. AID PROJECT

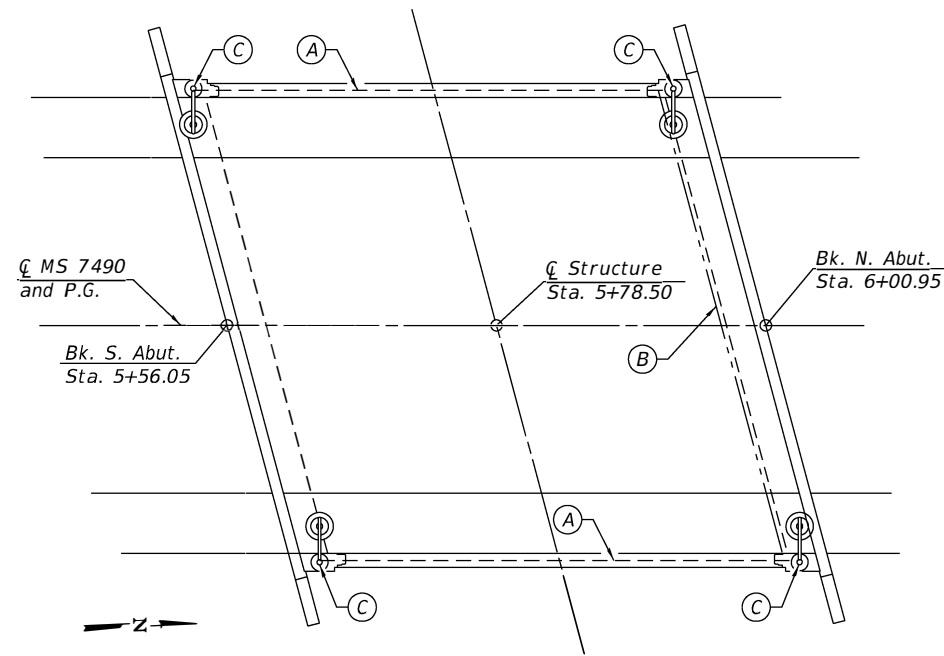
LAST SAVED DATE: 3/14/25 10:00:00 AM

BRIDGE LIGHTING GENERAL NOTES

1. The Contractor is responsible for the installation of the light poles, support brackets, luminaires, decorative bases, electrical conduit and other electrical components that are integral to the luminaire and supplied by the luminaire manufacturer such as pole wiring, surge arresters, fuses, ballasts, optical systems, lamps, photoelectric cells, house shields, etc. All electrical wiring and connections from the light pole base to the electrical service location will be completed by the City of Springfield.
2. Conduit routing shown is schematic only. The Contractor shall coordinate the size, type and location of all electrical conduit with the City of Springfield prior to installation or ordering of materials
3. All conduit shall be installed empty with a pull-string and daylighted near the termination point. The pull-string shall be affixed to open ends of the conduit and the conduit ends shall then be temporarily capped to the satisfaction of the Engineer. Cost of pull-string and installation is included with the conduits.
4. Light poles shall meet wind loading & vibration requirements according to the latest AASHTO Standards and Article 1069.01 of the Standard Specifications. Contractor shall submit light pole loading calculations stamped by an Illinois Licensed Structural Engineer, to the Engineer for approval. In lieu of stamped calculations, the contractor may provide data sheets from the light pole manufacturer indicating the pole and proposed attachment to the bridge railing meets the above noted requirements.
5. No material shall be delivered to the job site until all pertinent equipment submittals have been approved by the Engineer
6. No light poles shall be erected until approved by the Engineer and the Concrete Bridge Railing has adequately cured.
7. Light pole, luminaire, support bracket and decorative base are proprietary and shall be paid for as "Ornamental Lighting Unit, Complete". See Special Provisions.

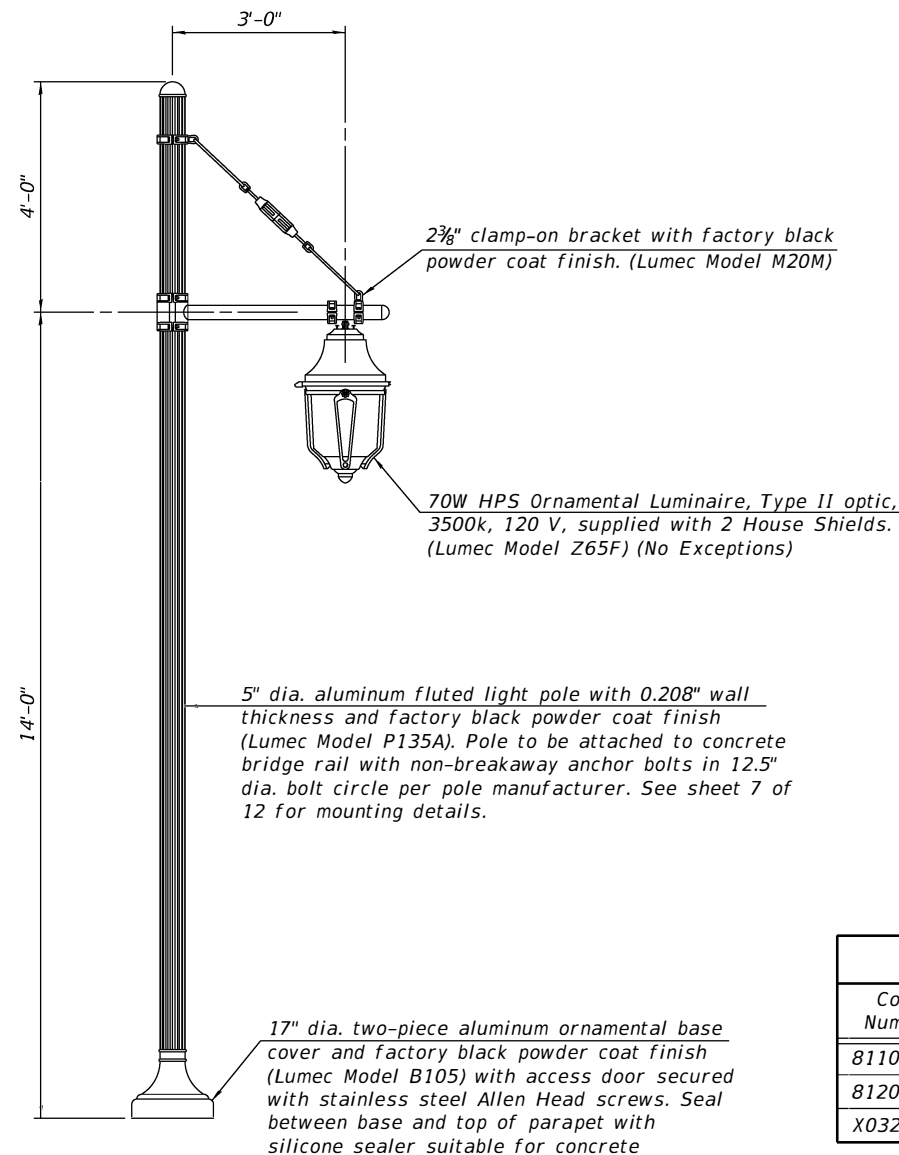


CROSS SECTION



BRIDGE LIGHTING PLAN

- (A) 2" PVC conduit embedded in concrete parapet structure. See sheet 7 of 12.
- (B) 2" Rigid galvanized steel conduit attached to structure. Mount to structure at 12" below PPC deck beams.
- (C) Mount pole to light pole foundation. Light pole foundation is integral to concrete bridge rail pedestals as shown on sheet 7 of 12.



ORNAMENTAL LIGHT UNIT, COMPLETE

BRIDGE LIGHTING BILL OF MATERIALS			
Code Number	Item	Unit	Total Quantity
81100600	Conduit Attached to Structure, 2" Dia., Galvanized Steel	Foot	50
81200230	Conduit Embedded in Structure, 2" Dia., PVC	Foot	100
X0326654	Ornamental Light Unit, Complete	Each	4

DGN-SPEC



USER NAME = SUSER8	DESIGNED - SDS	REVISED
FILE NAME = SFILES8	CHECKED - CWC	REVISED
PLOT SCALE = SCALES	DRAWN - DLH	REVISED
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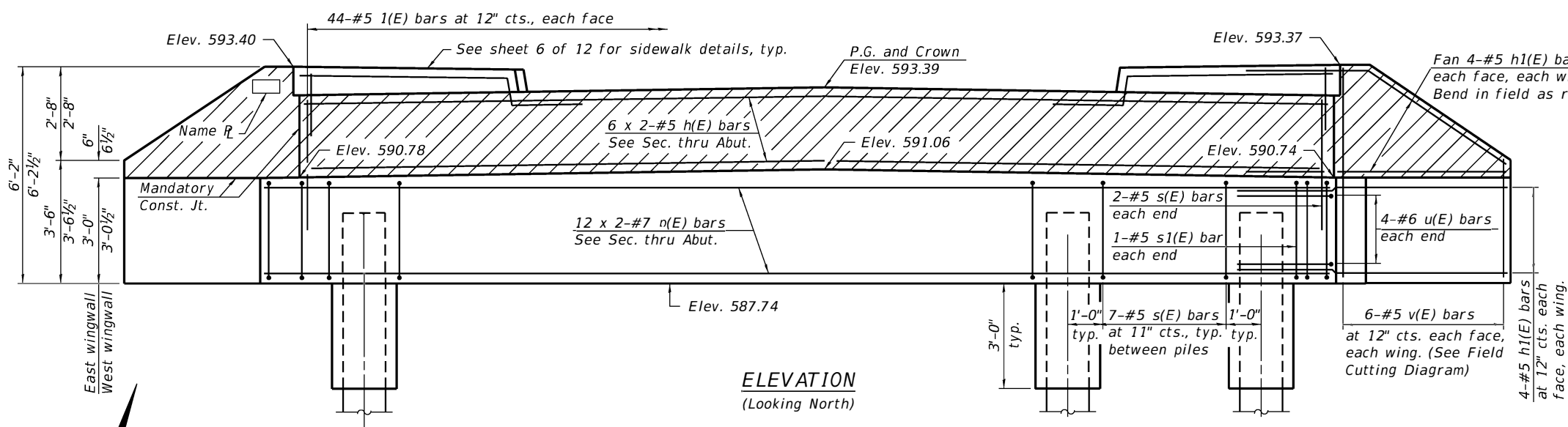
CITY OF SPRINGFIELD

**BRIDGE LIGHTING DETAILS
STRUCTURE NO. 084-6405**

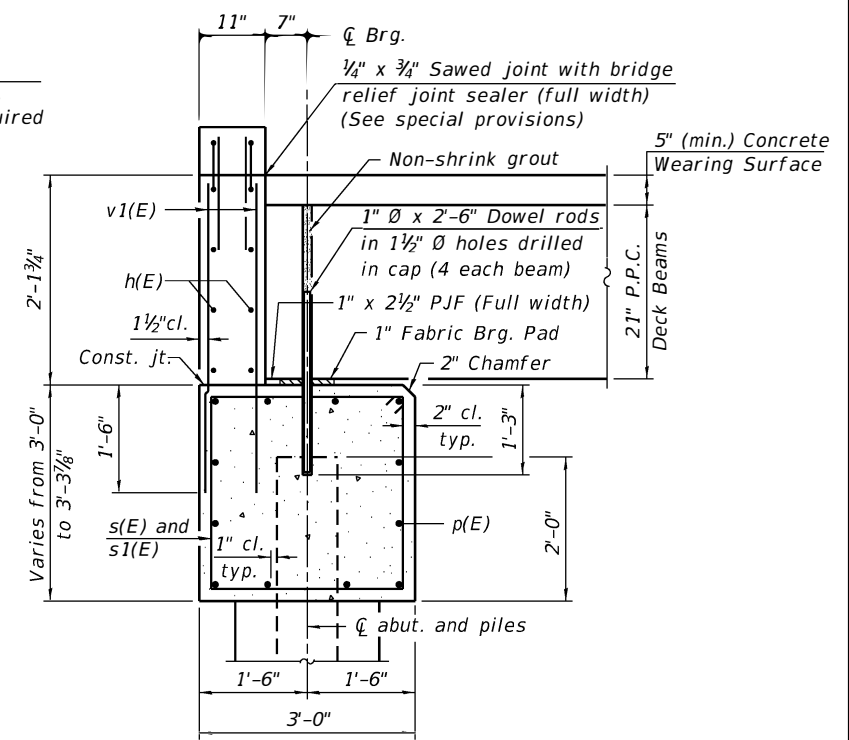
SHEET NO. 8 OF 12 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MS-7490	19-00485-00-BR	SANGAMON	39	24
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

LAST SAVED DATE: 11/25/2014 10:54:12 AM



ELEVATION
(Looking North)



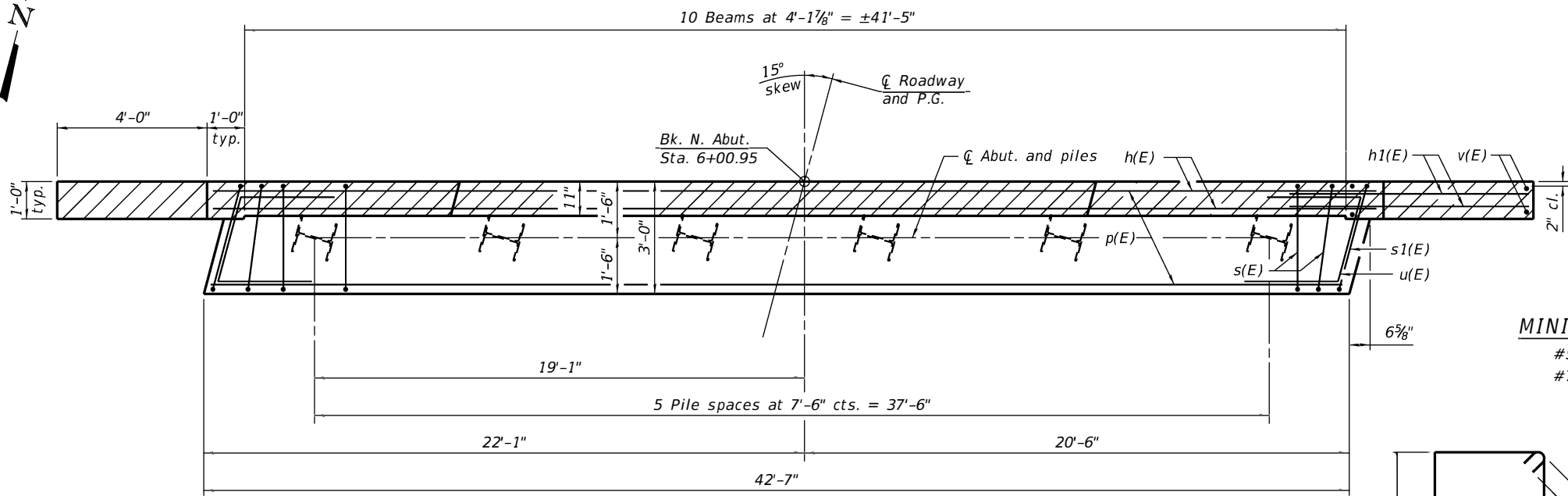
SECTION THRU ABUTMENT

(Dimensions are at Rt. L's)
See sheet 4 of 12 for Fabric Bearing Pad details.

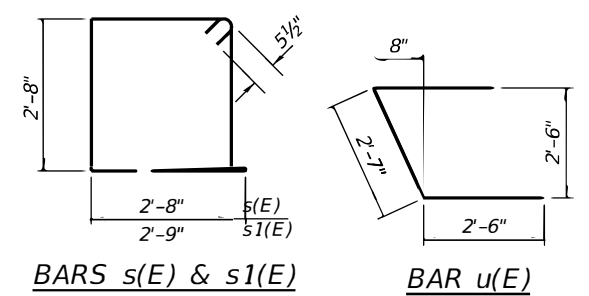
* If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".

MINIMUM BAR LAP

- #5 bar = 2'-6"
- #7 bar = 3'-11"

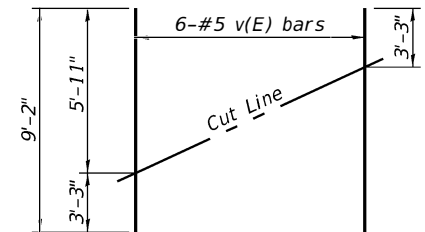


PLAN



BARS s(E) & s1(E)

BAR u(E)



FIELD CUTTING DIAGRAM

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	22'-10"	—
h1(E)	32	#5	8'-4"	—
p(E)	24	#7	23'-1"	—
s(E)	39	#5	11'-7"	□
s1(E)	2	#5	11'-9"	□
u(E)	8	#6	10'-7"	∩
v(E)	12	#5	9'-2"	—
v1(E)	88	#5	3'-6"	—
Structure Excavation		Cu. Yd.	42.6	
Concrete Structures		Cu. Yd.	20.7	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	2,760	
Furnishing Steel Piles HP12 x 53		Foot	168	
Driving Piles		Foot	168	

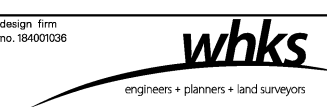
NORTH ABUT. PILE DATA

Type: Steel Pile HP12 x 53
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 28 ft.
No. Production Piles: 6

Notes:

1. The hatched area shall be poured after the beams are in place and shall be cast against the beams.
2. Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).
3. For HP Pile Details, see sheet 10 of 12.

FILE NAME: *DGN-SPEC*



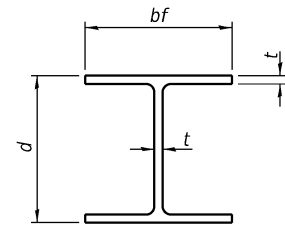
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FILE NAME = SFILES	CHECKED - BJJ	REVISED
PLOT SCALE = SCALES	DRAWN - DLH	REVISED
PLOT DATE = SDATES	CHECKED - SDS	REVISED

CITY OF SPRINGFIELD

**NORTH ABUTMENT
STRUCTURE NO. 084-6405**

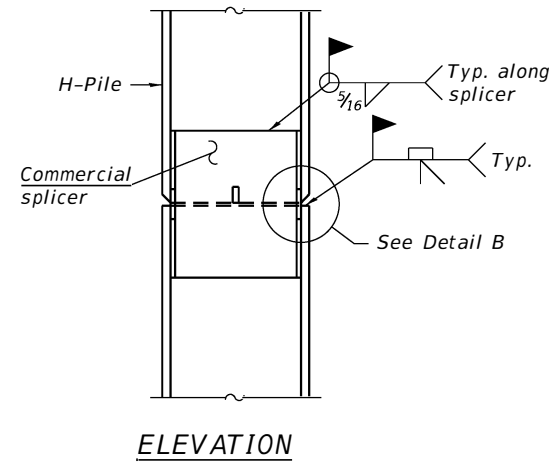
SHEET NO. 10 OF 12 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 93751	
ILLINOIS FED. AID PROJECT				

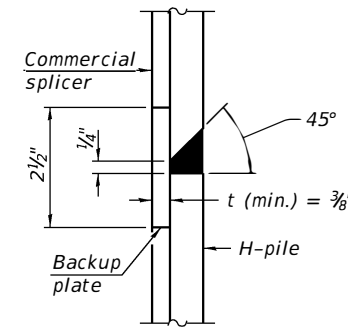


STEEL PILE TABLE

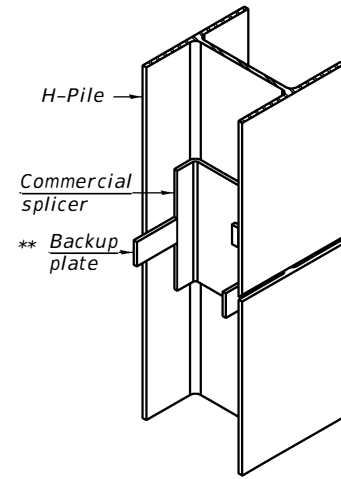
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

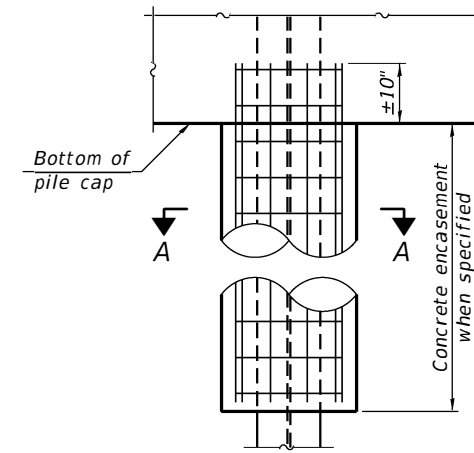


DETAIL "B"

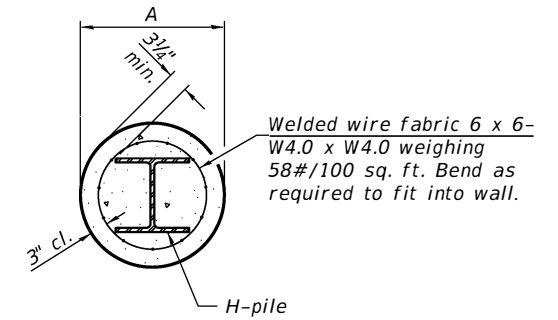


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

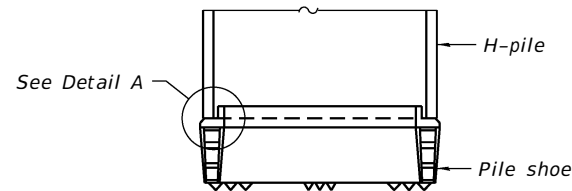


ELEVATION

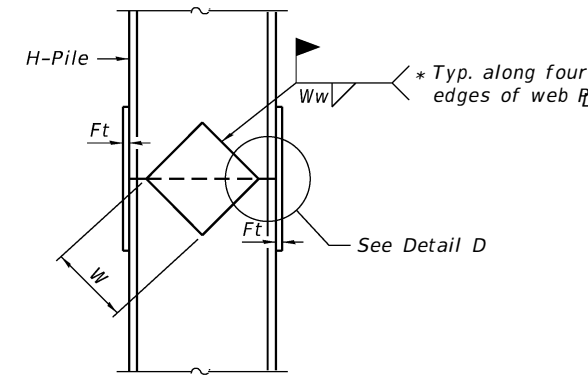


SECTION A-A

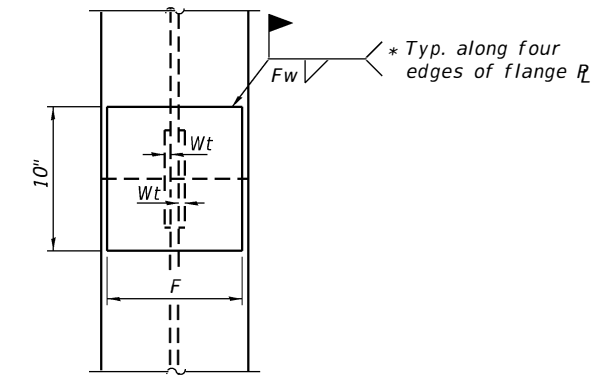
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).



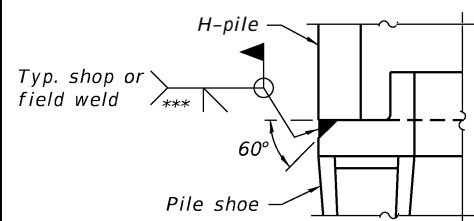
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ELEVATION



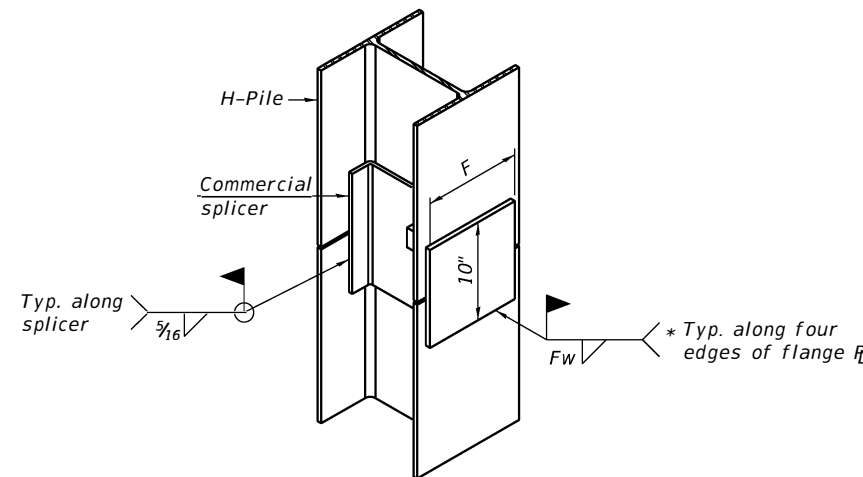
END VIEW



DETAIL A

SHOE ATTACHMENT

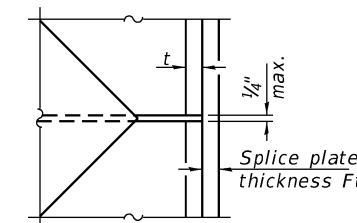
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

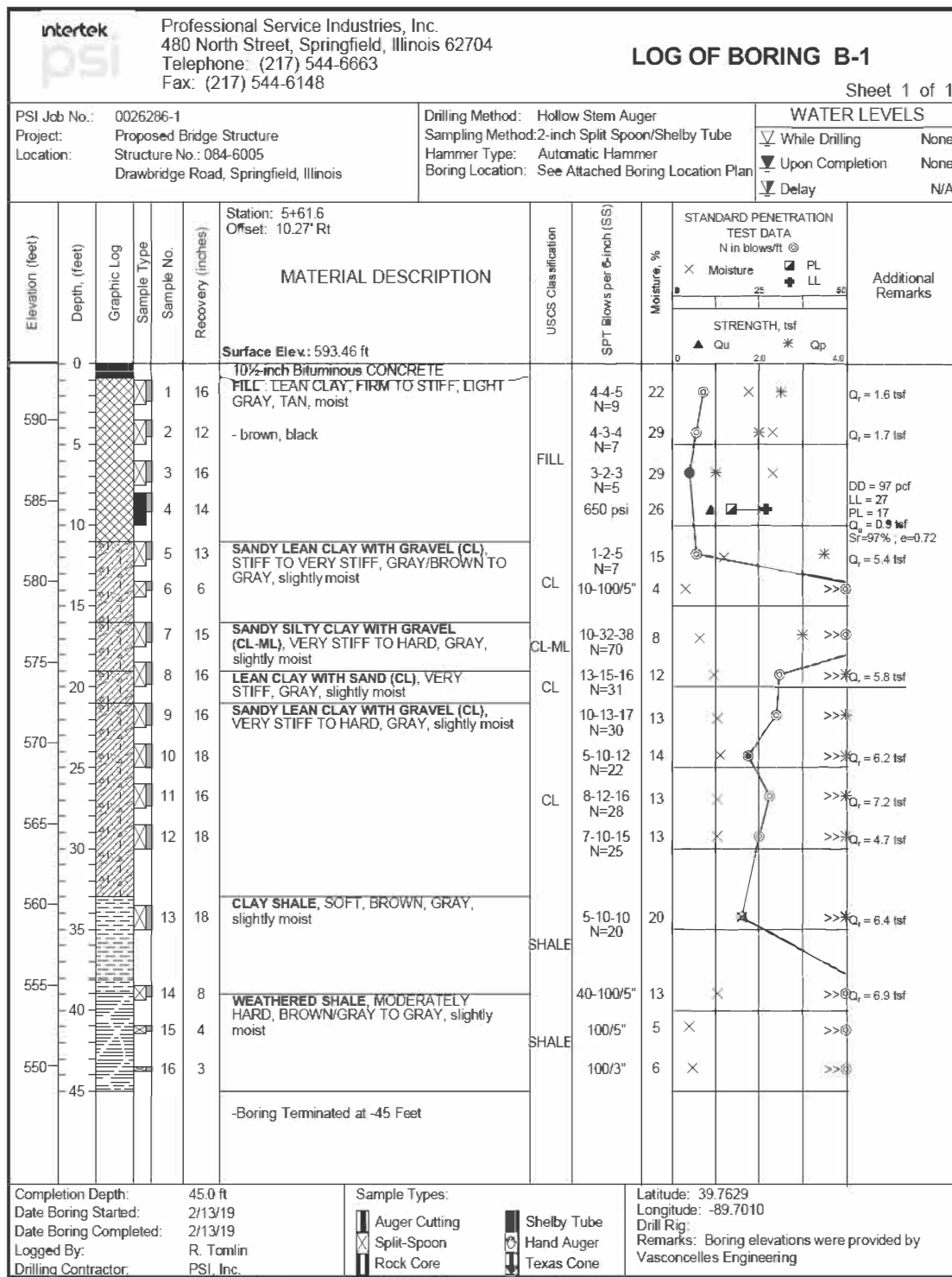
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



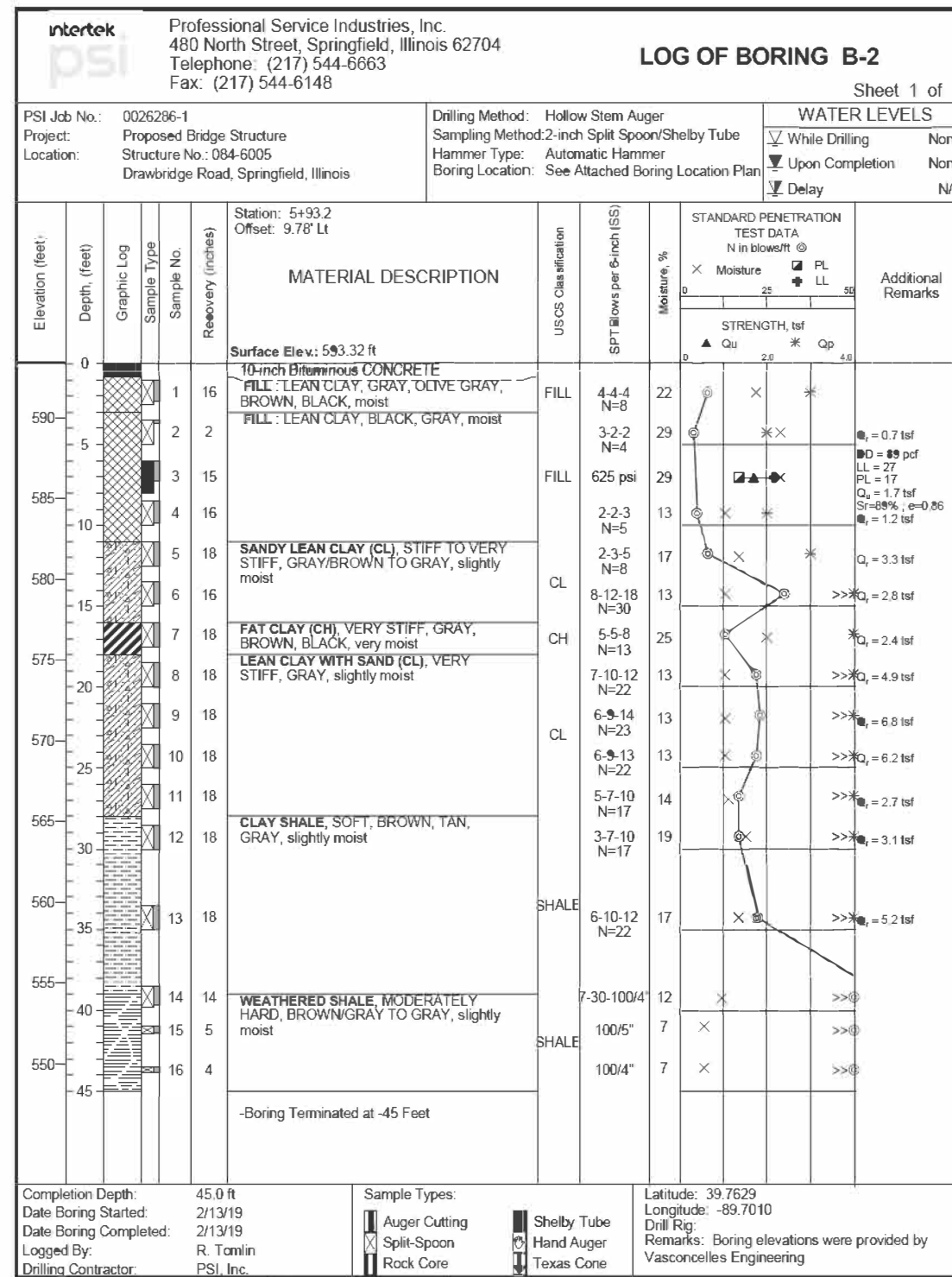
DETAIL D

WELDED PLATE FIELD SPLICE

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



The stratification lines represent approximate boundaries. The transition may be gradual.



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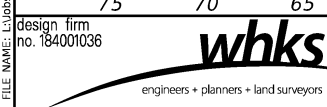
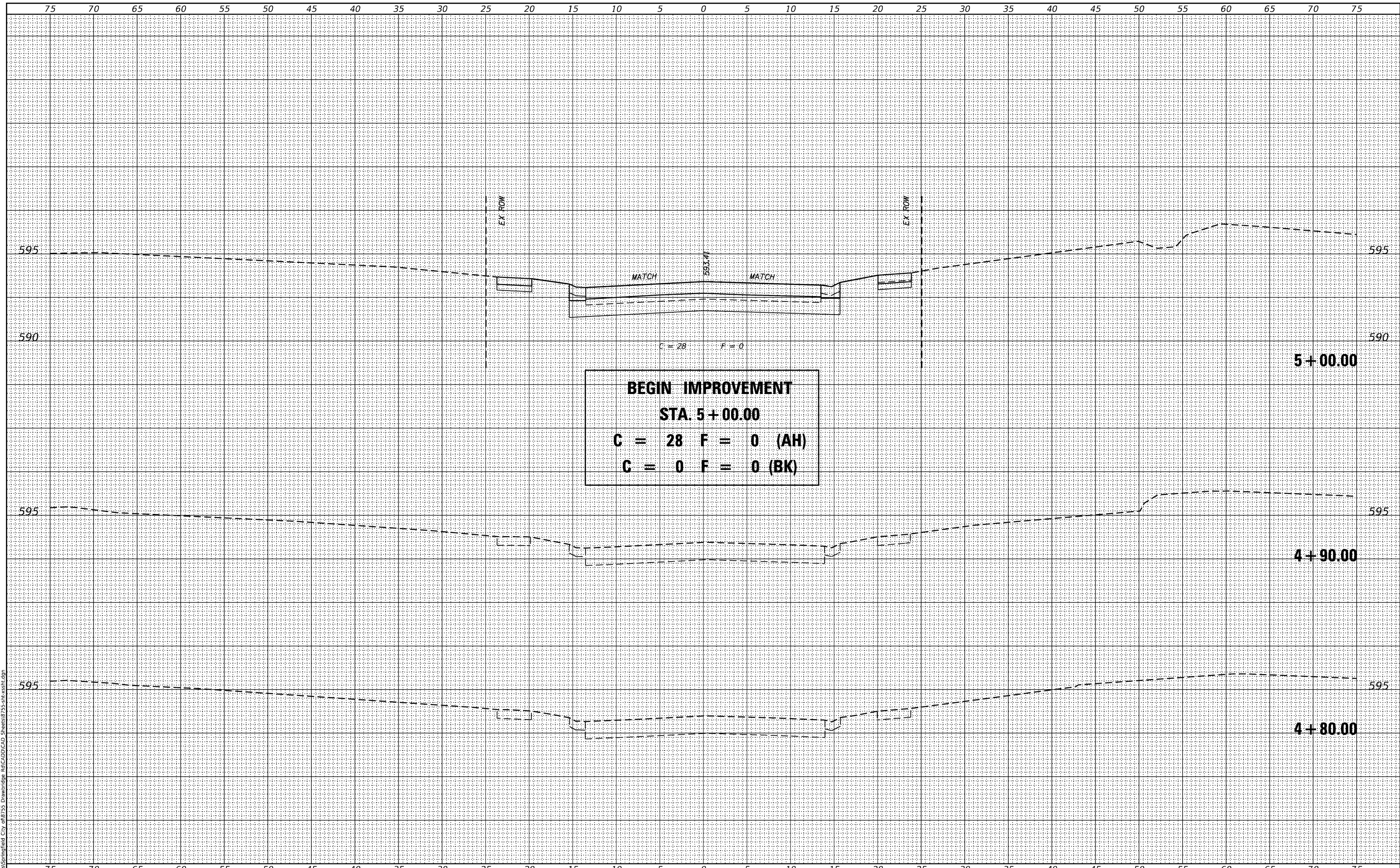
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MS-7490	19-00485-00-BR	SANGAMON	39	28
CONTRACT NO. 93751				
ILLINOIS FED. AID PROJECT				

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

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

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CITY OF SPRINGFIELD

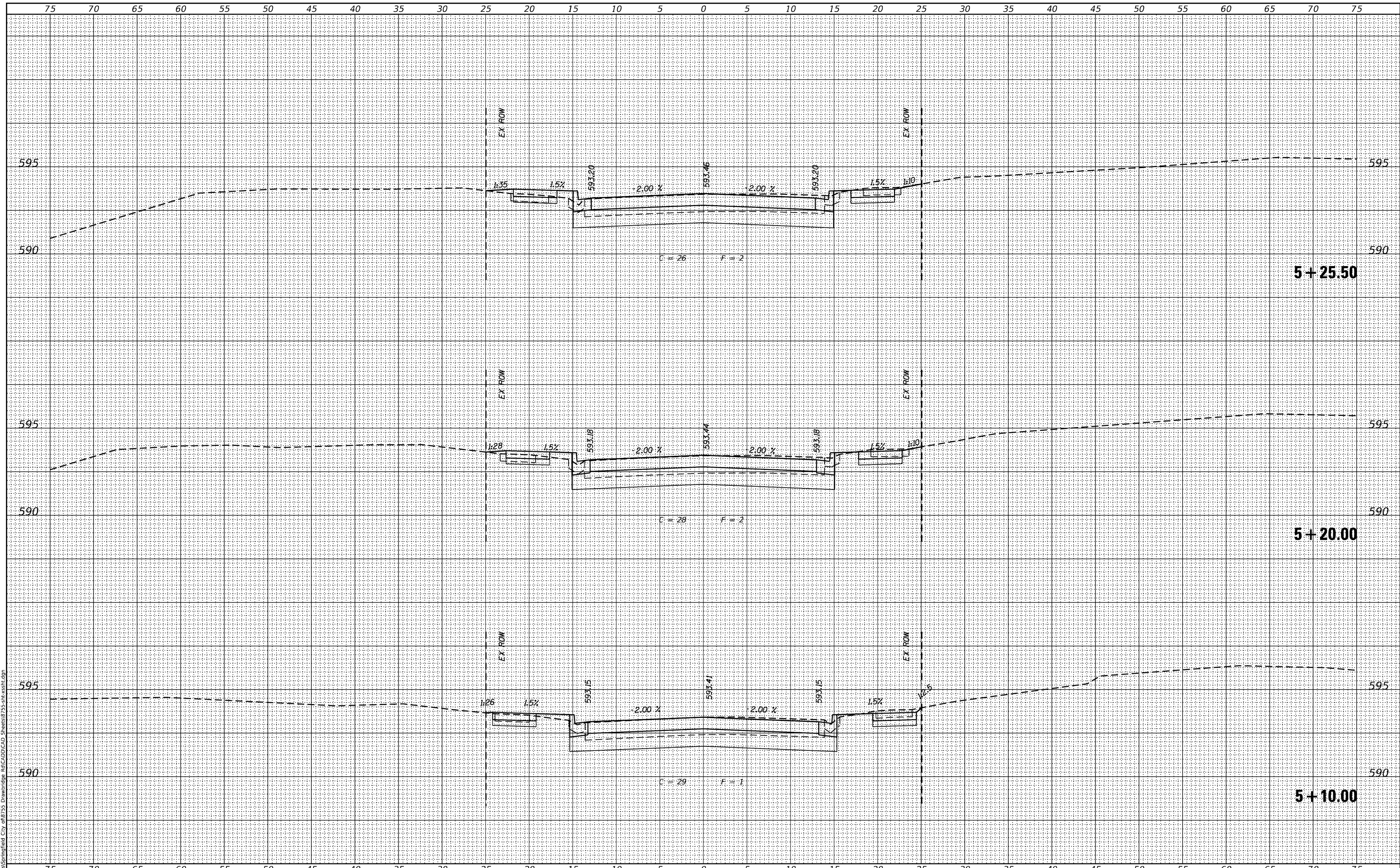
CROSS SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH
 SCALE: 1" = 5'
 SHEET 1 OF 11 SHEETS
 STA. 4+80.00 TO STA. 5+00.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	29
CONTRACT NO. 93751			ILLINOIS FED. AID PROJECT	

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

DATE	
BY	
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Design firm
 no. 184001036
whks
 engineers + planners + land surveyors

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

CROSS SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1" = 5' SHEET 2 OF 11 SHEETS STA. 5+10.00 TO STA. 5+25.50

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	30
CONTRACT NO. 93751				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
WHITE BOOK	PLOTTED	
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
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Design firm
 no. 184001036



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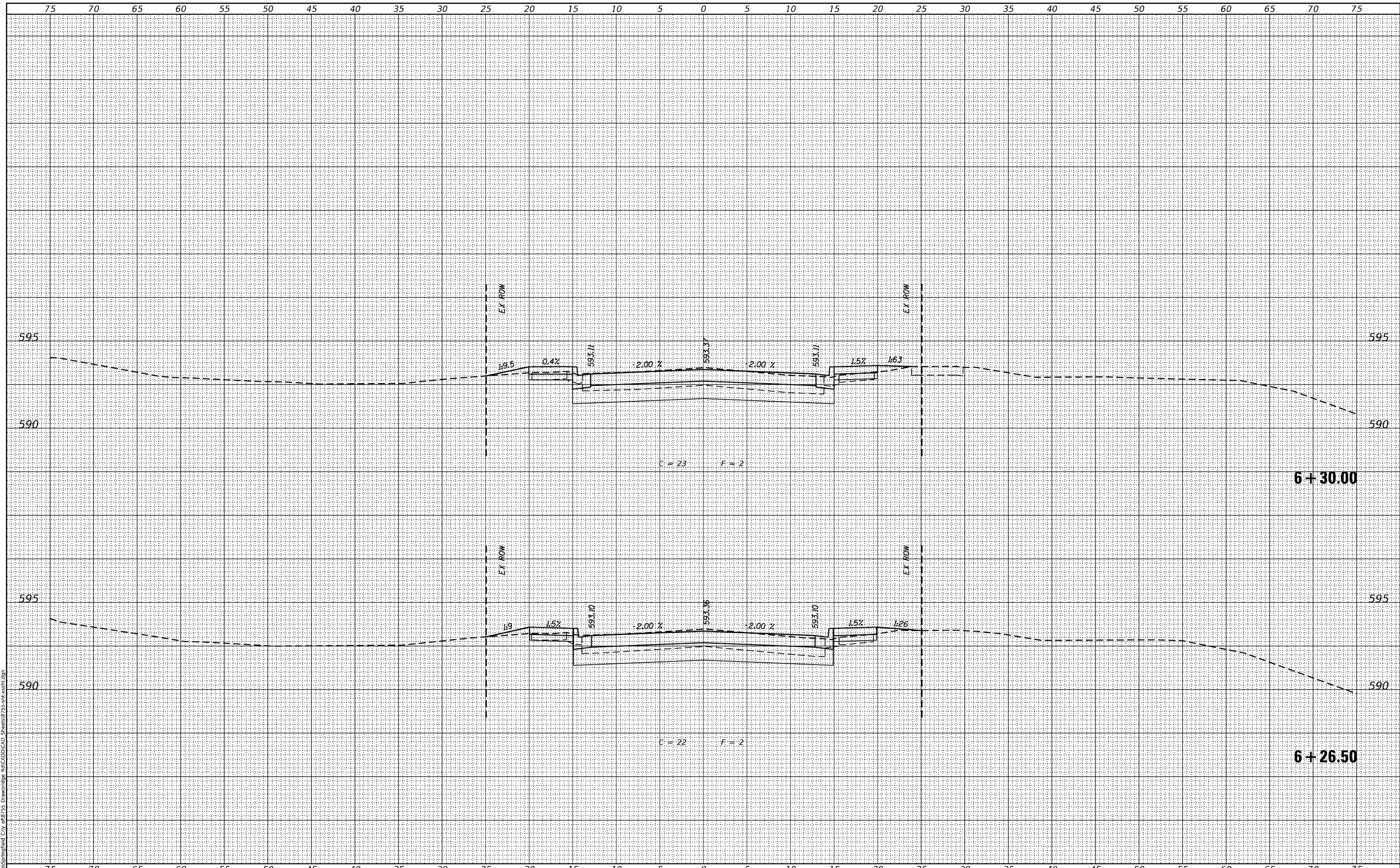
CITY OF SPRINGFIELD

CROSS SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH

SCALE: 1" = 5' SHEET 9 OF 11 SHEETS STA. 6+26.50 TO STA. 6+30.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	37
			CONTRACT NO. 93751	

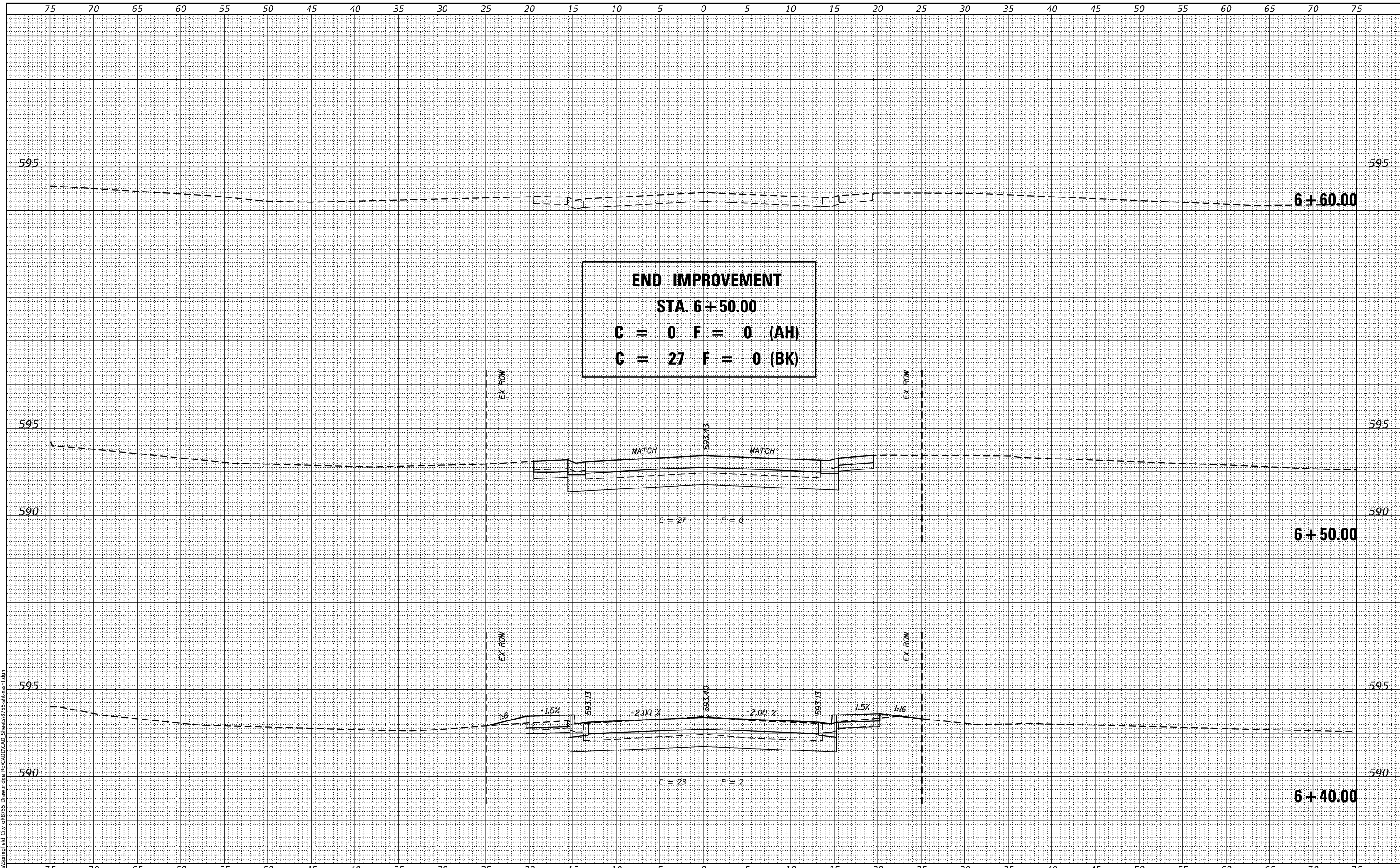
ILLINOIS FED. AID PROJECT



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

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
WHITE BOOK	
AREAS CHECKED	
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END IMPROVEMENT
STA. 6+50.00
C = 0 F = 0 (AH)
C = 27 F = 0 (BK)

Design firm
 no. 184001036
whks
 engineers + planners + land surveyors

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

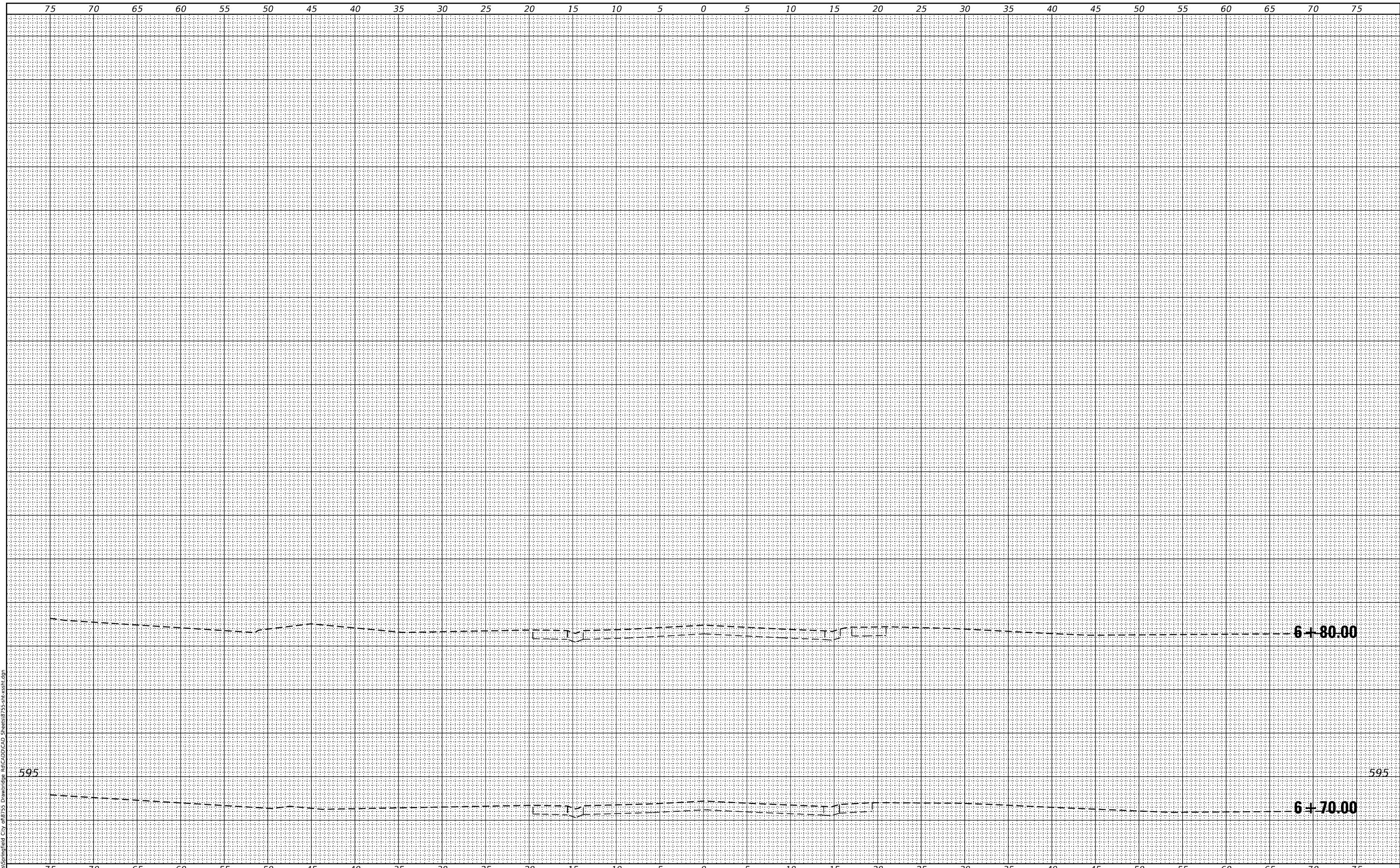
CROSS SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH
 SCALE: 1" = 5'
 SHEET 10 OF 11 SHEETS
 STA. 6+40.00 TO STA. 6+60.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	38
CONTRACT NO. 93751				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
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ORIGINAL SURVEY	SURVEYED	DATE
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 engineers + planners + land surveyors

USER NAME = SOPERATORS	DESIGNED - RKA	REVISED
	CHECKED - SDS	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 7/30/2020	CHECKED - RKA	REVISED

CITY OF SPRINGFIELD

CROSS SECTIONS
DRAWBRIDGE ROAD OVER JACKSONVILLE BRANCH
 SCALE: 1" = 5' SHEET 11 OF 11 SHEETS STA. 6+70.00 TO STA. 6+80.00

M.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7490	19-00485-00-BR	SANGAMON	39	39
CONTRACT NO. 93751				

ILLINOIS FED. AID PROJECT