06-12-2020 LETTING ITEM 185

INDEX OF SHEETS

DESCRIPTION

COVER SHEET

DETOUR PLAN

PLAN AND PROFILE

BRIDGE PLANS

SUMMARY OF QUANTITIES AND GENERAL NOTES

TYPICAL CROSS SECTIONS

DETOUR PLANGENERAL NOTES

SHEET NO.

1.

7-17.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION 00-00080 EFFINGHAM 29 -00-BR ILLINOIS CONTRACT NO. 95524

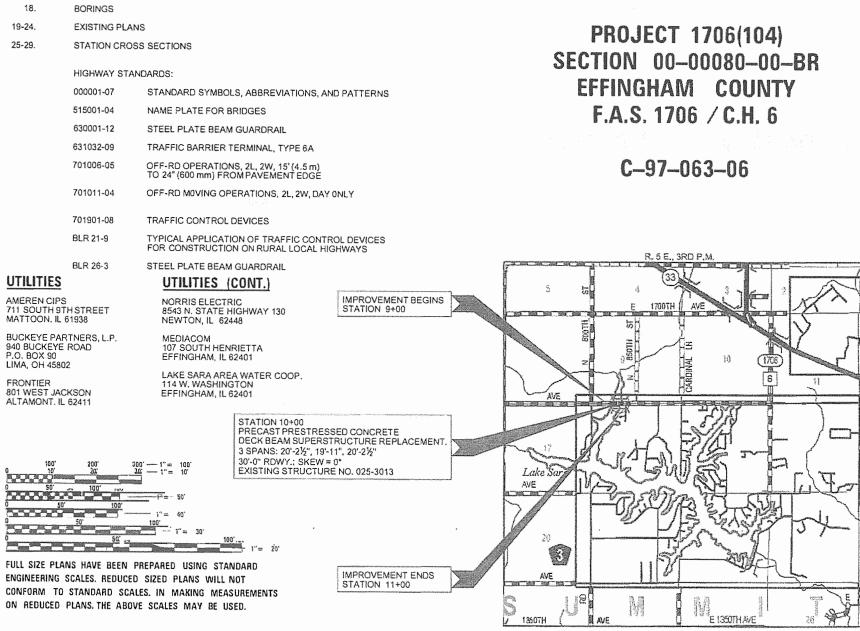
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM - BRIDGE

LOCATION MAP

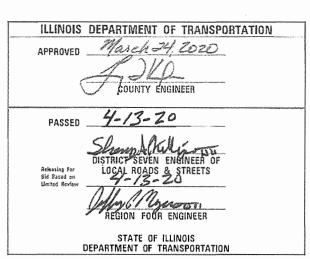
NET LENGTH OF SECTION = 200 FEET = 0.038 MILES

APPROXIMATE SCALE:



CALL 811 DIG NO: A3580182

WARNING BEFORE YOU DIG



LOCATION OF SECTION INDICATED THUS --



FUNCTIONAL CLASSIFICATION: DESIGN SPEED.

DESIGN TRAFFIC:

40 MPH 2000 ADT

MAJOR COLLECTOR

CONTRACT NO. 95524 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

		SUMMARY OF QUANTITIES		
	ITEM NO.	ITEM	TYPE	RUCTION CODE 010
	20200100	FARTH EVCAVATION	UNIT	TOTAL
	20200100	EARTH EXCAVATION	CU YD	64
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	70
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	760
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	113
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	147
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	48
	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	61
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	120
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
	50300225	CONCRETE STRUCTURES	CU YD	11.8
	50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,810
	50800205	REINFORCEMENT BARS, EPOXY COATED .	POUND	1,340
,	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	39
	50102400	CONCRETE REMOVAL	CU YD	10.2
*	50901050	STEEL RAILING, TYPE SM	FOOT	120
	51500100	NAME PLATES	EACH	1
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	30
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
	63200310	GUARDRAIL REMOVAL	FOOT	200
	67100100	MOBILIZATION	L SUM	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60
,	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
* ^	X6300130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	50
-	X7011006	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1
			i i	

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

ROADWAY SCHEDULE										
	AGGREGATE	BITUMINOUS	BITUMINOUS	HOT-MIX	HOT-MIX	AGGREGATE				
	BASE	MATERIALS	MATERIALS	ASPHALT	ASPHALT	SHOULDERS				
LOCATION	COURSE	(PRIME COAT)	(TACK COAT)	BINDER	SURFACE	TYPE B				
LOCATION	TYPE A			COURSE	COURSE, IL-9.5	6"				
				IL 19.0, N50	MIX "C", N50					
FAS 1706 / CH 6	35100100	40600275	40600290	40603080	40604050	48101500				
	TON	POUND	POUND	TON	TON	SQ YD				
STA. 9+00 TO STA. 9+96.08	35	380	39	24	15	60				
STA. 9+96.08 TO STA. 10+30.92			35		31					
STA. 10+30.92 TO STA. 11+00	35	380	39	24	15	60				
TOTAL	70	760	113	48	61	120				

	EART	HWORK	SCHED	ULE		
LOCATION	EARTH EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.			CU.YD.	CU.YD.	CU.YD.
FAS 1706 / CH 6						
STA. 9+00 TO STA. 9+69.08	33	25.00%	100.00%	25	11	14
STA. 9+69.08 TO STA. 10+30.92		25.00%	70.00%	0		0
STA. 10+30.92 TO STA. 11+00	30	25.00%	100.00%	23	33	-10
TOTAL	64			48	44	4
USE	64					4
				WASTE 4 CU YDS		•

<u>GENERAL NOTES</u>

- 1) ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
- 2) ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
- 3) THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- 4) THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- 5) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

 AGGREGATE BASE COURSE AND SHOULDERS 2.05 TON/CU YD

 HOT MIX ASPHALT 2.05 TON/CU YD 112 LBS/SQ YD./INCH THICKNESS

BITUMINOUS MATERIALS RATES

SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE	0.250 LB/SQ FT
MILLED HMA OR PCC (TACK COAT)	0.050 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.050 LB/SQ FT
TACK COAT (BETWEEN LIFTS)	0.025 LB/SQ FT

- 6) THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. SEEDING CLASS 2 SPECIAL = 0.1 ACRE
- 7) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8) COMMITMENTS:

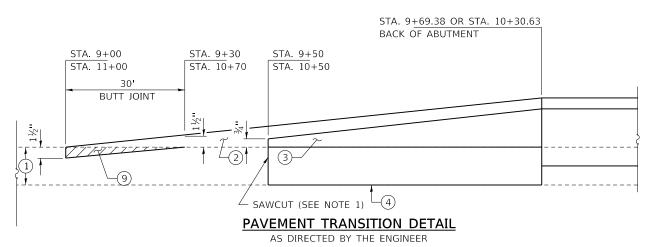
NONE

TRAFFIC BARRIER TERMINAL, TYPE	6A
LOCATION	EACH
RT. STA. 9+32.5 TO STA. 9+70	1
LT. STA. 9+32.5 TO STA. 9+70	1
RT. STA. 10+30 TO STA. 10+67.5	1
LT. STA, 10+30 TO STA, 10+67.5	1
TOTAL	4

STEEL PLATE BEAM GUARDRAIL, TYPE	A (SPL)
LOCATION	FOOT
RT. STA. 9+20 TO STA. 9+32.5	12.5
LT. STA. 9+20 TO STA. 9+32.5	12.5
RT. STA. 10+67.5 TO STA. 10+80	12.5
LT. STA. 10+67.5 TO STA. 10+80	12.5
TOTAL	50

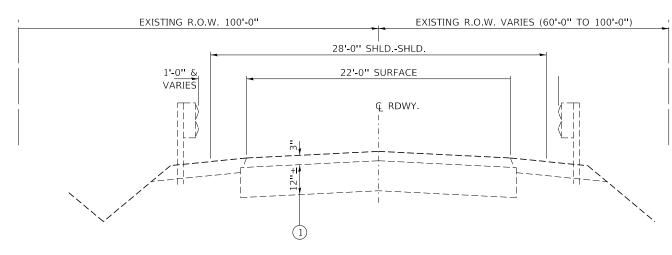
GUARDRAIL REMOVAL	
LOCATION	FOOT
RT. STA, 9+20 TO STA. 9+70	50
LT. STA. 9+20 TO STA. 9+70	50
RT. STA. 10+30 TO STA. 10+80	50
LT. STA. 10+30 TO STA. 10+80	50
TOTAL	200

FILE NA	ME = 070305-sht-summary.dgn	USER NAME = rhosick	DESIGNED - R.J.P.	REVISED -				F.A.S.	SECTION	COUNTY TOTAL SHEETS
1 1	IAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES AND	GENERAL NOTES	1706	00-00080-00-BR	EFFINGHAM 29
B P 9	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT			LAKE SA	RA BRIDGE	CONTRACT NO. 955
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	DATE - 03/19/2020	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		ILLINOIS F	ED. AID PROJECT 1706(106)



NOTES

COST OF SAWCUT SHALL BE INCLUDED IN THE UNIT COST BID FOR EARTH EXCAVATION.



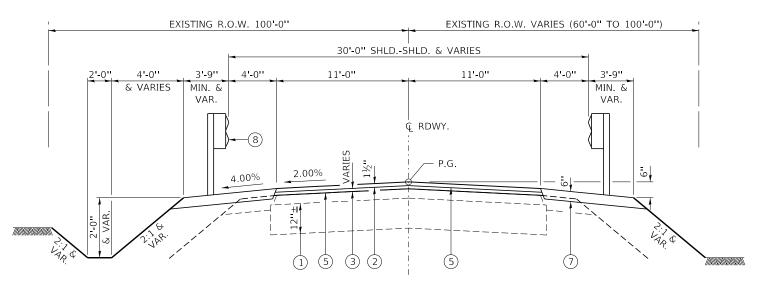
EXISTING TYPICAL CROSS SECTION STA. 9+00 TO STA. 11+00

LEGEND

- 1) EXISTING ASPHALT SURFACE ON AGGREGATE BASE
- 2 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX C, N50 $(1\frac{1}{2}$ " THICKNESS).
- (3) HMA BINDER COURSE, IL.-19.0, N50 ($2\frac{1}{2}$ " THICKNESS)
- (4) AGGREGATE BASE COURSE, TYPE A (12")
- (5) BITUMINOUS MATERIALS (TACK COAT)
- (6) BITUMINOUS MATERIALS (PRIME COAT)
- (7) AGGREGATE SHOULDERS TYPE B 6"
- (8) TRAFFIC BARRIER TERMINAL, TYPE 6A SPBGR
- HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT

EARTH EXCAVATION

HOT-MIX ASPHALT MIXTURE REQUIREMENTS									
FAS 1706 / CH 6	FAS 1706 / CH 6								
HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT BINDER COURSE								
PG 64-22	PG 64-22								
4% @ 50 Gyr.	4% @ 50 Gyr.								
II O E	IL 19.0								
IL 9.5	IL 19.0								
MIXTURE C	NONE								
CORES	CORES								
112 LBS / SY / INCH THICKNESS	112 LBS / SY / INCH THICKNESS								
QC/QA	QC/QA								
	FAS 1706 / CH 6 HOT-MIX ASPHALT SURFACE COURSE PG 64-22 4% @ 50 Gyr. IL 9.5 MIXTURE C CORES 112 LBS / SY / INCH THICKNESS								

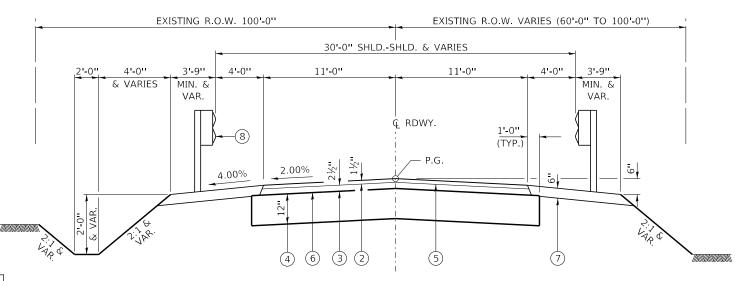


SUGGESTED CUT SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION STA. 9+00 TO STA. 9+50 AND

SUGGESTED FILL SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS STA. 10+50 TO 11+00

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. $9\!+\!00$ TO $9\!+\!50$ AND STA. $10\!+\!50$ TO STA. $11\!+\!00$. SEE SHEET 7 FOR TRANSITION AT BRIDGE.



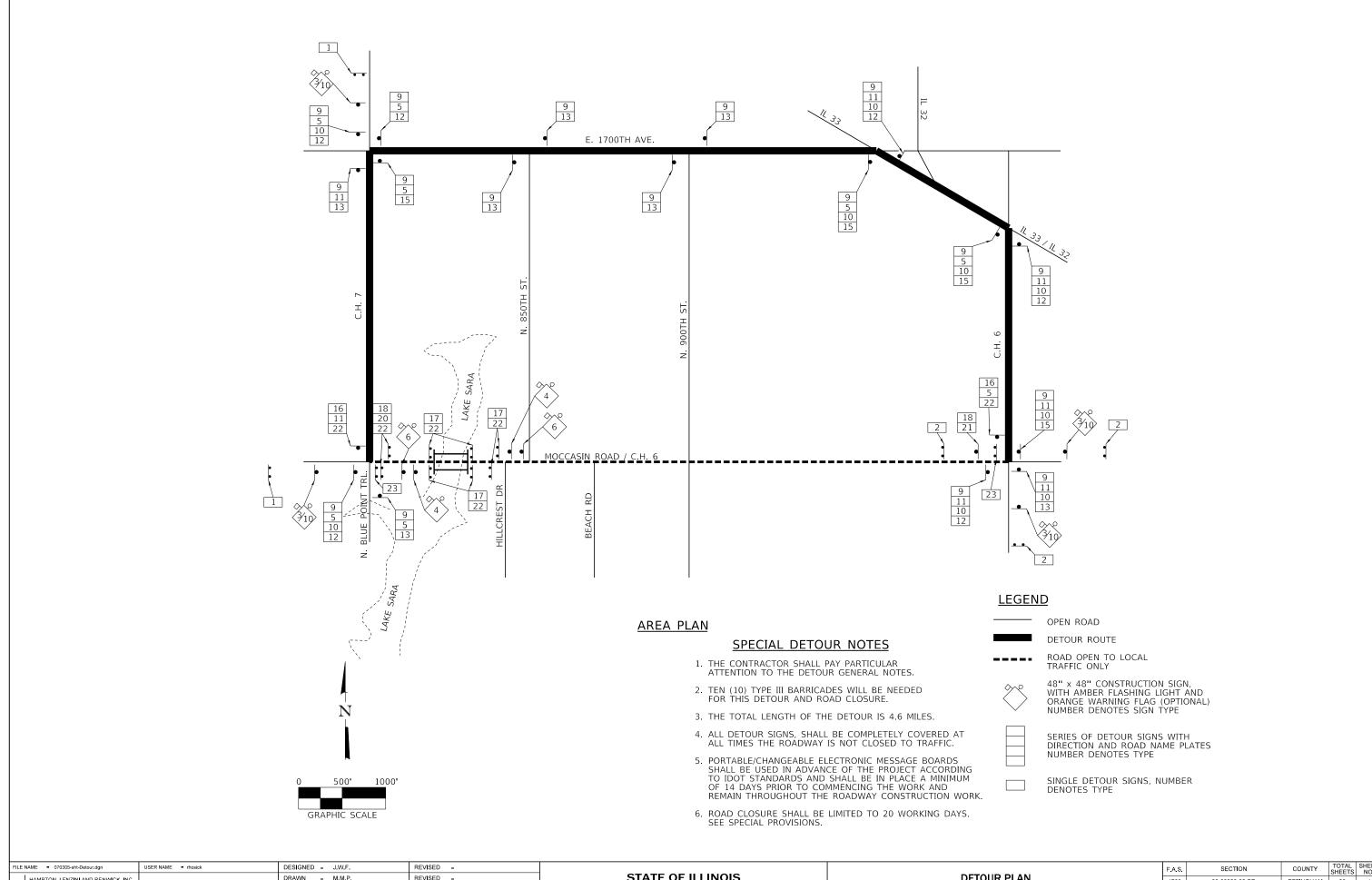
CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION

STA. 9+50 TO STA. 9+69.08 AND STA.10+30.92 TO STA. 10+50

SUGGESTED FILL SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

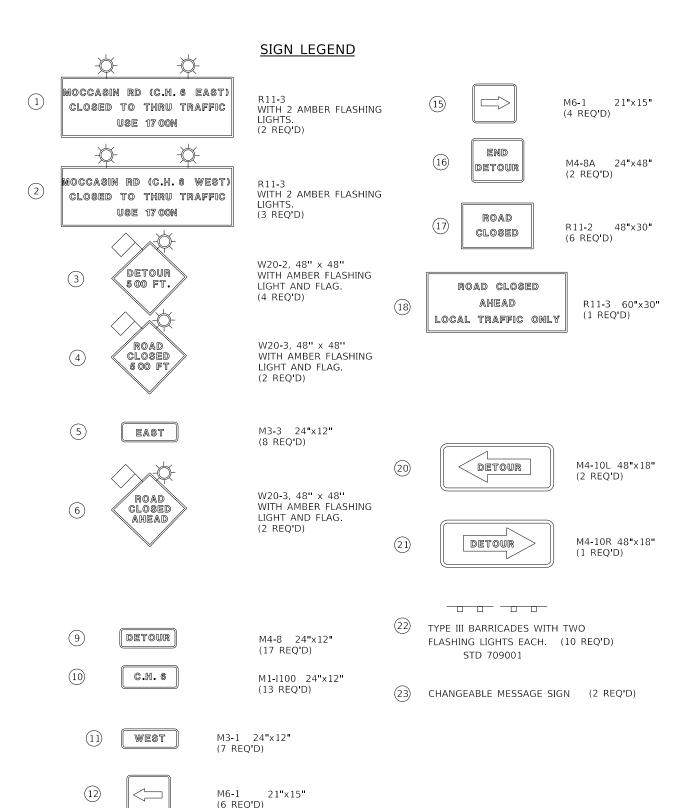
FILE	NAME = 070305-sht-typsections.dgn	USER NAME = rhoslck	DESIGNED - J.W.F.	REVISED -	CTATE OF ILLINOIS					F.A.S.	SECTION	COUNTY	TOTAL SH SHEETS	EET
	HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS	TYPICAL CROSS SECTIONS				1706	00-00080-00-BR	EFFINGHAM	29	3
_	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT						CONTRACT	CONTRACT NO. 95524		
B	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	DATE - 03/19/2020	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT 1706(106	.6)	\neg



FILE	NAME = 070305-sht-Detour.dgn	USER NAME - rhosick	DESIGNED - J.W.F.	REVISED -						F.A.S.	SECTION	COUNTY	SHEETS N	. .
	HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS	DETOUR PLAN				1706	00-00080-00-BR	EFFINGHAM	29	4
-	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 82703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT					LAKE SA	RA BRIDGE	CONTR	RACT NO. 955	24
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	DATE - 03/19/2020	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT 1706(10	05)	

NOTES

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JAN. 1, 2016", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- 2. THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT. SEE SPECIAL PROVISIONS TRAFFIC CONTROL PLAN.
- 3. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES FOR APPROVAL OF SUCH DATE. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE PRIGINFER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
- 4. IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- 5. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 6. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- 8. THE CONTRACTOR SHALL MAKE ALL CHANGES IN SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER.
- 9. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
- 10. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.
- 11. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 12. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- 13. THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3), AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
- 14. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" BY VARIABLE OR A 12" BY VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE
- 15. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE RESTRAINT CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
- 16. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.11 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
- 18. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWENTY FOUR (24) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

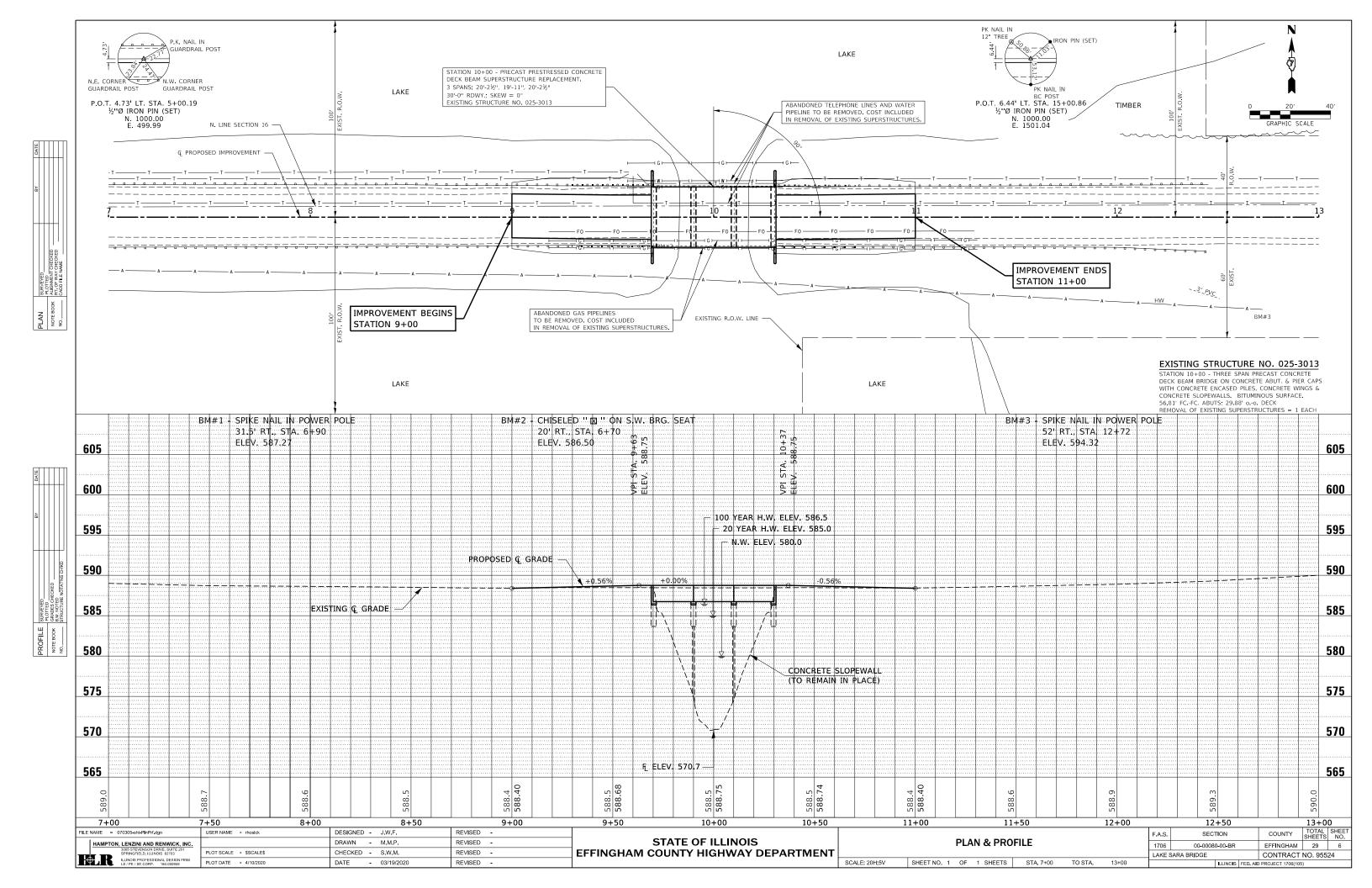


M6-3

(7 REQ'D)

21"×15"

FILE	NAME = 070305-sht-Detour.dgn USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -				F.A.S.	SECTION	COUNTY	TOTAL SHEET
	HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS		DETOUR PLAN GENERAL NOTES	1706	00-00080-00-BR	EFFINGHAM	29 5
-	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT			LAKE SARA			ACT NO. 95524
	ILLINOIS PROFESSIONAL DESIGN FIRM LILY / PE / SE CORP. 184.000969 PLOT DATE = 3/25/2020	DATE - 03/19/2020	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT 1706(10)	5)



BENCHMARK: Chiseled "

on S.W. Bearing Seat. Sta. 9+71, 20' Rt., Elev. 586.50 EXISTING STRUCTURE: Three Span Precast Concrete Deck Bridge on concrete abutment and pier caps with concrete encased piles, concrete wings & concrete slopewalls. 3 spans 19'-11", 19'-11", 19'-11", skew = 0°. Existing Structure No. 025-3013. Structure closed to traffic. LIMITS OF REMOVAL: Superstructure beams, backwall wingwalls and railing to be removed. Existing abutment and pier pile caps, piling, no salvage. Slopewall shall remain in place. - 100 Yr. H.W. Elev. 586.5 20 Yr. H.W. Elev. 585.0 Steel Railing, Type SM Traffic Barrier Terminal, Type 6A See sheet 7 of 18 for details. See Std. 631032 (Typ.) - N.W. Elev. 580.0 Bott. Cap Elev. CLSM (typ.) 583.7 (typ.) Exist. Slopewall To Remain in Place. F Elev. 570.7 ELEVATION 61'-10" Bk.-Bk. Abuts Gas Pipeline (Buried) Exist. Slopewall 20'-0" to remain in place To Remain in Place. Q - Q Piles Q - Q Piles Q - Q Piles Lake Sara Water 4" Steel Casing to be removed by To be removed Contractor by Contractor @ Pier 1 Pier 2 Sta. 9+90.00 Sta. 10+10.00 @ West Abut. Elev. 588.75 Elev. 588.75 **♦** B-2 Sta. 9+70.33 Elev. 588.75 @ Rdwv. ₲ Bridge **♦** B-1 ← East Abut. Sta. 10+00 Sta. 10+29.67 Flev. 588.75 8" Steel 16" Casing Name Plate 25'-0" Transition (Typ.) Pipeline - 8" & 16" **DESIGN SPECIFICATIONS** To be removed by Contractor 2017 AASHTO LRFD Bridge Design See Special Provisions SEISMIC DATA Seismic Performance Zone (SPZ) = B

Specifications, 8th Edition with all interims.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psify = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psif'ci = 5,000' psi

 $fpu = 270,000 psi (\frac{1}{2}"Ø low lax. strands)$ $fpbt = 201,960 psi (\frac{1}{2}"Ø low lax. strands)$ fy = 60,000 psi (Reinf.)

Soil Site Class = D

Design Spectral Acceleration at 1.0 sec. $(S_{D1}) = 0.087g$ Design Spectral Acceleration at 0.2 sec. $(S_{DS}) = 0.297g$

	-						-		
Drainage Are	a = 3.3	Sq. Mi		risting L roposed	ow Grad Low Gra	de Elev ade Ele	. 588.4 v. 588.4	at Sta. 4 at Sta	9+00 . 9+00
Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	ater El.
F1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	20	1100	370	370	585.0 ^①	0.0	0.0	585.0	585.0
Base									
Overtopping									
Max. Calc.	100	1640	440	440	586.5 [®]	0.0	0.0	586.5	586.5

WATERWAY INFORMATION

• Water level of the lake is controlled by the dam spillway.

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 Specifications."



Expires 11-30-2020

STEVEN

W. MEGGINSON 081-6064 SPRINGFIELD, IL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

All bars to be epoxy coated.

Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification

for this activity. See Special Provisions for conditions. The Contractor shall be responsible for removal of abandonded

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

INDEX OF STRUCTURE SHEETS

General Plan & Elevation 17"x36" PPC Deck Beam Spans 1 & 3 17"x36" PPC Deck Beam Details Spans 1 & 3 17"x36" PPC Deck Beam Span 2

17"x36" PPC Deck Beam Details Span 2

Superstructure Details

Steel Railing, Type SM West Abutment

East Abutment

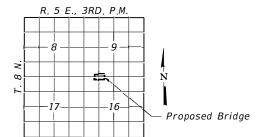
10. Pier 1 11. Pier 2

12. Borings 13-18. Existing Plans

LAKE SARA BUILT 202 BY EFFINGHAM COUNTY SEC. 00-00080-00-BR COUNTY HIGHWAY 6 F.A. PROJ. 1706(104) STR. NO. 025-3013 LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

TOTAL BILL OF MATERIAL

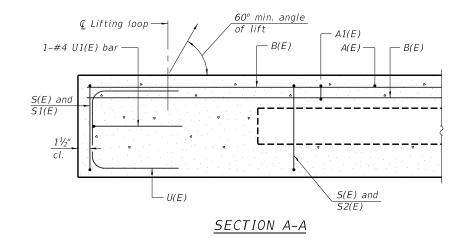
		_		
ITEM	UNIT	SUPER	SUB	TOTAL
HMA Surface Course, IL-9.5, Mix "C", N50	Ton	31		31
Removal of Existing Superstructures	Each			1
Concrete Removal	Cu. Yd.		10.2	10.2
Concrete Structures	Cu. Yd.		11.8	11.8
Precast Prestressed Conc. Deck Beams (17" Depth)	Sq. Ft.	1,810		1,810
Reinforcement Bars, Epoxy Coated	Pound		1,340	1,340
Steel Railing, Type SM	Foot	120		120
Name Plates	Each		1	1
Controlled Low-Strength Material	Cu. Yd.		30	30
Structural Repair of Concrete (Depth ≤ 5")	Są. Ft.		39	39
<u> </u>				

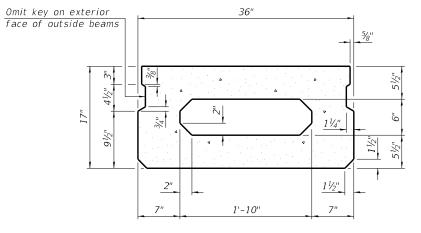
FILI	E NAME = 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -	
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS
_	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT
	ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -	

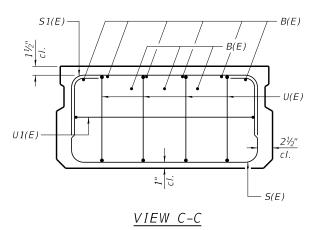
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 025-3013

SHEET NO. 1 OF 18 SHEETS

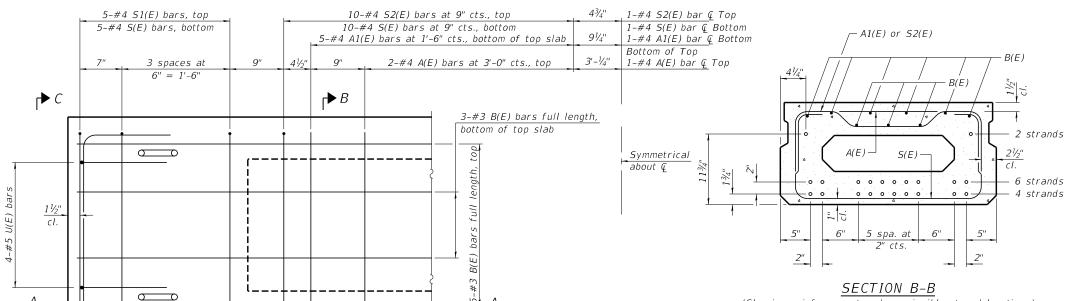
	F.A.S.	SEC.	COUNTY	SHEETS	SHEI			
	1706	00-0008	00-00080-00-BR			29	7	
_	LAKE S	SARA BRIDGE		CONTRACT NO. 95524				
			ILLINOIS	FED. All	D PROJECT 1708(10)	5)		







SECTION B-B (Showing dimensions)



(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)	5	#4	2'-7"	
A1(E)	11	#4	2'-10"	{
B(E)	18	#3	20'-0"	
<i>S(E)</i>	31	#4	5'-9"	
S1(E)	10	#4	4'-3"	
S2(E)	21	#4	4'-6"	
U(E)	8	#5	3'-8"	
U1(E)	2	#4	5'-0"	

See sheet 3 & 6 of 18 for additional details and Bill of Material.

PLAN VIEW

 $20'-2\frac{1}{2}''$ end to end beam

 \downarrow_B

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 #3 bar = 1'-6"

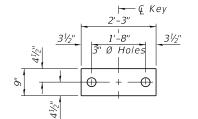
PD-1736-0 1-1-2020

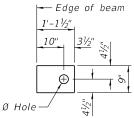
Α

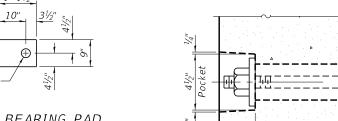
 \downarrow c

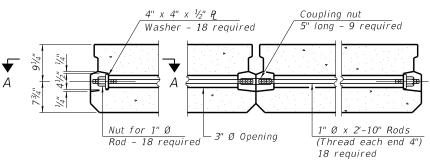
└ *U1(E)*

FILE NAME = 070305-s	sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		17" x 36" PPC DECK BEAM SPANS 1 & 3	F.A.S.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
HAMPTON, LENZ	ZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO 1025 2012	1706	00-00080-00-BR	EFFINGHAM	29 8
TATER SPRING	GFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	31N0C10NE NO. 023-3013	LAKE SAR	A BRIDGE	CONTRACT	NO. 95524
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 2 OF 18 SHEETS		ILLINOIS FED. A	JD PROJECT 1706(105	5)









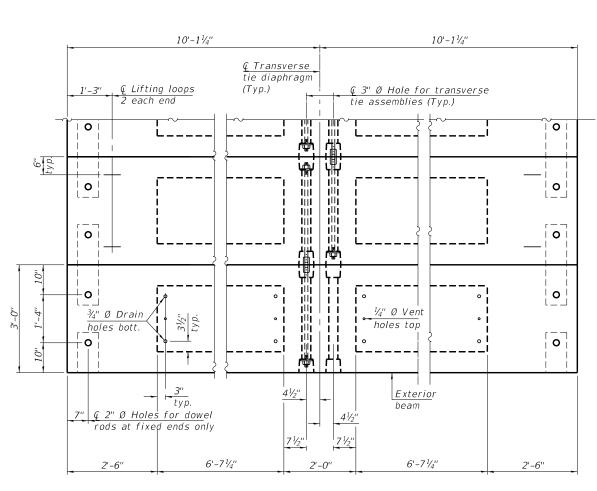




Notes:

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

SECTION A-A



PLAN VIEW

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" Ø 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

Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

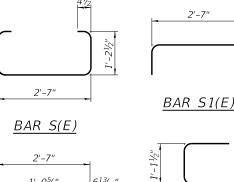
A minimum $2\frac{1}{2}$ " Ø lifting pin shall be used to engage the lifting loops during handling.

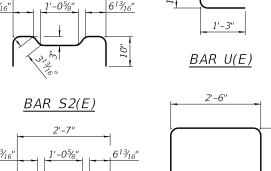
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

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

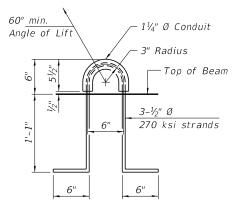
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Reinforcement bars designated (E) shall be epoxy coated.





BAR A1(E)



 $BAR\ U1(E)$

LIFTING LOOP DETAIL

BILL OF MATERIAL

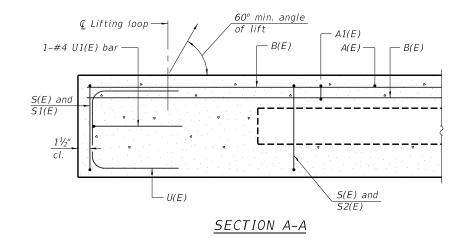
Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,212
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	21

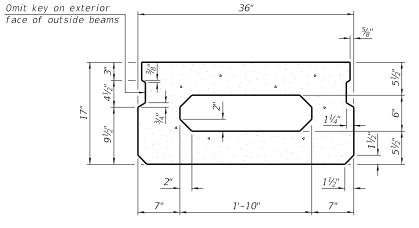
PDD-1736-0 1-1-2020

FILE N	AME = 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -	
I	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT
l₩	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -	

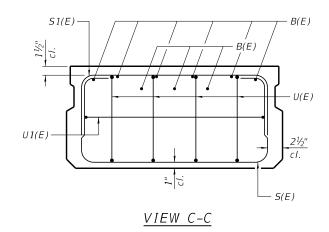
17" x 36" PPC DECK BEAM DETAILS SPANS 1 & 3 **STRUCTURE NO. 025-3013** SHEET NO. 3 OF 18 SHEETS

F.A.S.	S. SECTION			COUNTY	SHEETS	SHEET NO.
1706	00-00080-00-BR			EFFINGHAM	29	9
LAKE S	SARA BRIDGE			CONTRACT N	NO. 9552	24
ILLINOIS ES				DDO IECT 1706/108	EV.	

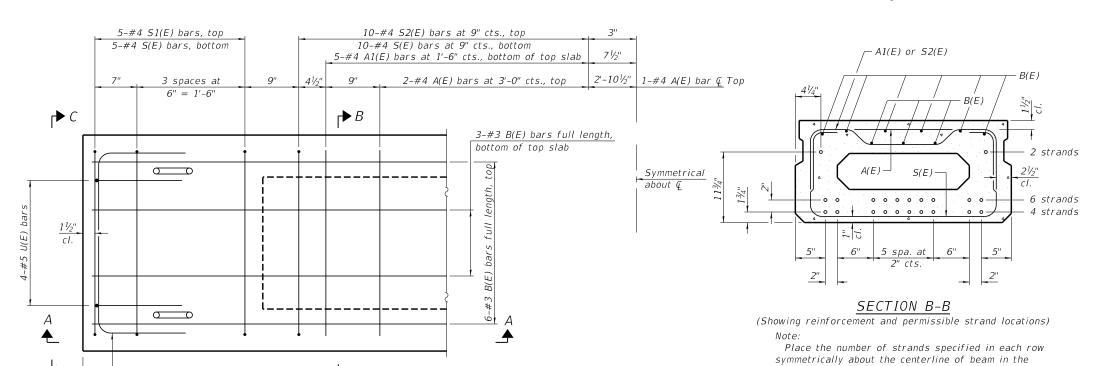




permissible strand locations shown.







PLAN VIEW

19'-11" end to end beam

Note:

 \downarrow_B

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.

 $\frac{MINIMUM\ BAR\ LAP}{\#3\ bar\ =\ 1'-6''}$

BAR LIST ONE BEAM ONLY (For information only)

Bar	No.	Size	Length	Shape
A(E)	5	#4	2'-7"	
A1(E)	10	#4	2'-10"	}
B(E)	18	#3	19'-8''	
S(E)	30	#4	5'-9"	
S1(E)	10	#4	4'-3"	
S2(E)	20	#4	4'-6"	
U(E)	8	#5	3'-8"	
U1(E)	2	#4	5'-0"	

Note:

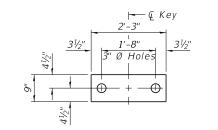
See sheet 5 & 6 of 18 for additional details and Bill of Material.

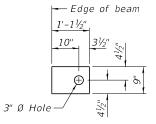
PD-1736-0 1-1-2020

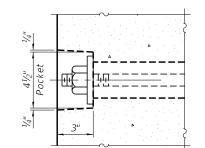
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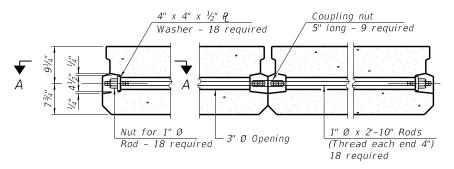
└ *U1(E)*

FILE N	IAME = 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		17" x 36" PPC DECK BEAM SPAN 2	F.A.S.	SECTION	COUNTY TOTAL SHEET NO.
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M. REVISED - STATE OF ILLINOIS		CTDUCTUDE NO. 025 2012	1706	00-00080-00-BR	EFFINGHAM 29 10	
1-4	SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	311(00101\L 1\0. 023-3013	LAKE SARA	BRIDGE	CONTRACT NO. 95524
, in	LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 4 OF 18 SHEETS		ILLINOIS	FED. AID PROJECT 1706(105)











FABRIC BEARING PAD (Exterior - 4 reg'd)

FIXED

Notes:

All bearing pads shall be 1" thick. Omit holes when using expansion bearings.

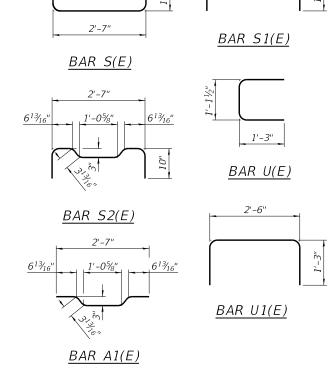
SECTION A-A

2'-6"

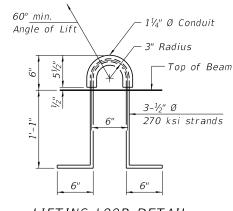
9'-111/2"

6'-51/5"

TYPICAL TRANSVERSE TIE ASSEMBLY



2'-7"



LIFTING LOOP DETAIL

Expansion bearing pads shall be bonded to the substructure. 9'-111/2" tie diaphragm 1'-3" © Lifting loops 2 each end (Typ.)0 ₩

tie assemblies (Typ.) ĭ o ₩ iiii 0 0 0 i 0 LO. 0 1/4" Ø Vent ¾" Ø Drain holes top holes bott. 0 -0 $\frac{3''}{typ}$. Exterior beam 7" (2" Ø Holes for dowel 41/2" rods at fixed ends only 71/2"

2'-0"

PLAN VIEW

6'-5¹/₂"

Connect beams in pairs with the transverse tie configuration shown.

2'-6"

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" Ø 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 $\frac{1}{6}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum $2\frac{1}{2}$ " Ø 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.

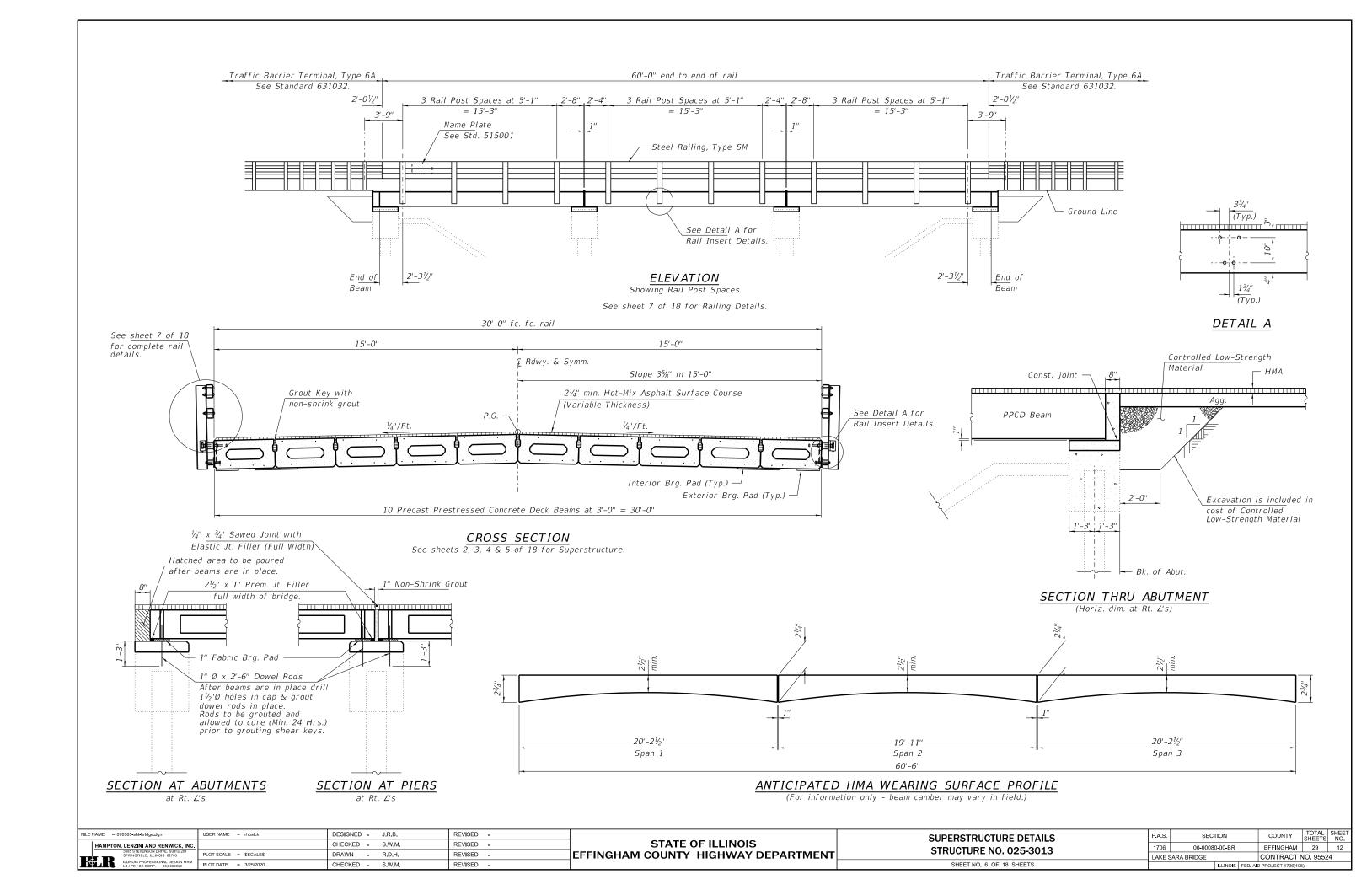
Reinforcement bars designated (E) shall be epoxy coated.

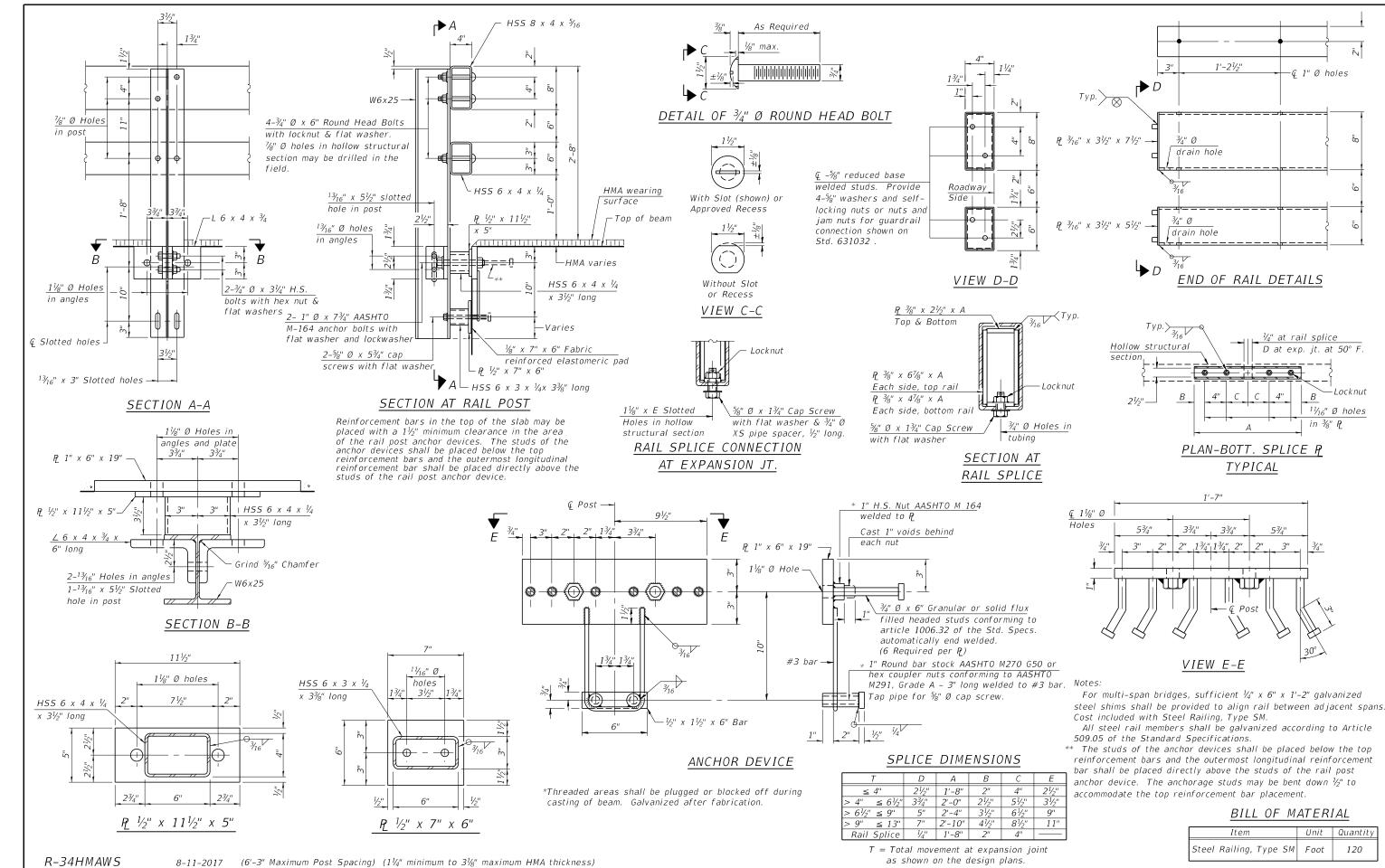
BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	598
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	10

PDD-1736-0 1-1-2020

FILE NAME = 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED -	J.R.B.	REVISED -		17" x 36" PPC DECK BEAM DETAILS SPAN 2	F.A.S.	SECTION	COUNTY	TOTAL SH	EET
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED -	S.W.M.	REVISED -	STATE OF ILLINOIS		1706	00-00080-00-BR	EFFINGHAM	4 29	11
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN -	R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 025-3013	LAKE SAR	A BRIDGE		T NO. 95524	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	CHECKED -	S.W.M.	REVISED -		SHEET NO. 5 OF 18 SHEETS		ILLINOIS FED. A	ID PROJECT 1706(105)	-



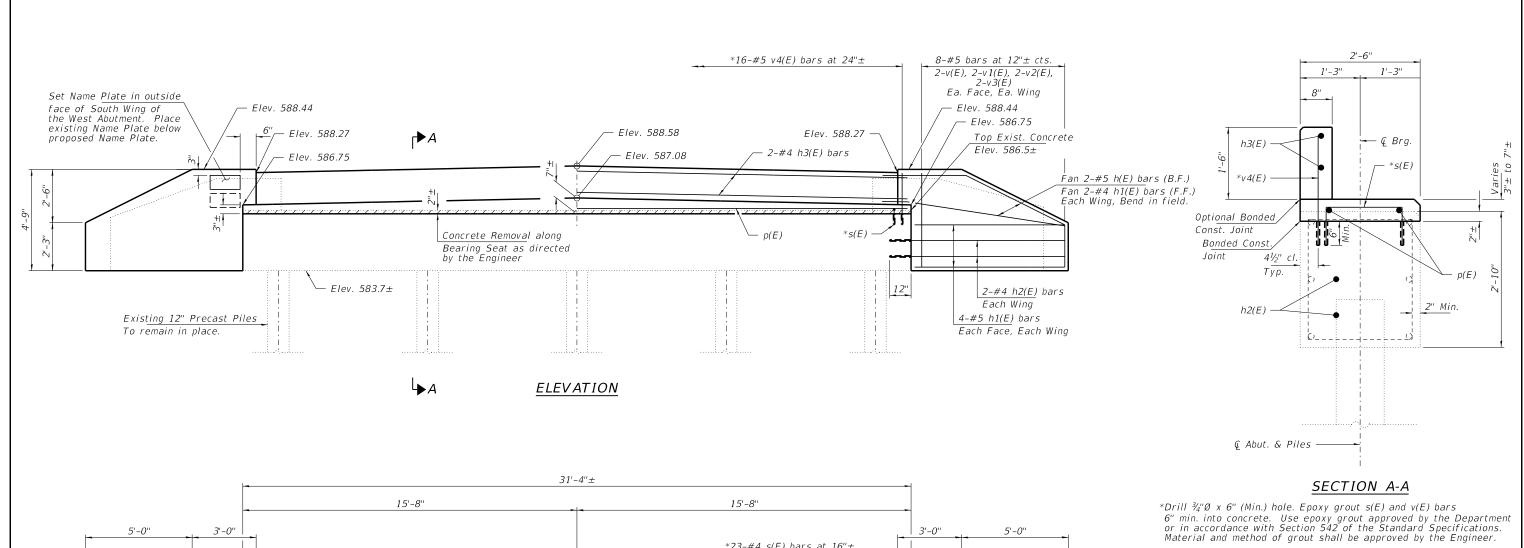


USER NAME = rhosick DESIGNED - J.R.B. REVISED -SECTION STEEL RAILING, TYPE SM WITH HMA WEARING SURFACE **STATE OF ILLINOIS** HAMPTON, LENZINI AND RENWICK, INC CHECKED - S.W.M. REVISED -1706 00-00080-00-BE **STRUCTURE NO. 025-3013** DRAWN - R.D.H. REVISED -EFFINGHAM COUNTY HIGHWAY DEPARTMENT LAKE SARA BR**I**DGE ILLINOIS PROFESSIONAL DESIGN FIR SHEET NO. 7 OF 18 SHEETS PLOT DATE = 3/25/2020 CHECKED - S.W.M. REVISED -

COUNTY

EFFINGHAM 29 13

CONTRACT NO. 95524

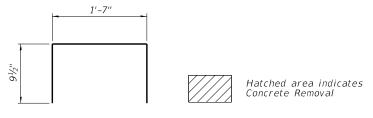


BILL OF MATERIAL - W. ABUT.

									
BAR	NO.	SIZE	LENGTH	SHAPE					
h(E)	4	#5	9'-3''						
h1(E)	20	#5	7'-0''						
h2(E)	4	#5	8'-0''						
h3(E)	2	#5	31'-0"						
p(E)	2	#5	31'-0"						
s(E)	23	#4	3'-2"						
v(E)	8	#5	4'-5''						
v1(E)	8	#5	3'-10''						
v2(E)	8	#5	2'-11''						
v3(E)	8	#5	1'-11''						
v4(E)	16	#5	2'-5"						
Concrete S	tructures		Cu. Yd.	4.8					
Concrete R	emoval		Cu. Yd.	4.3					
Reinf. Bars, Epoxy Coated Pound 550									

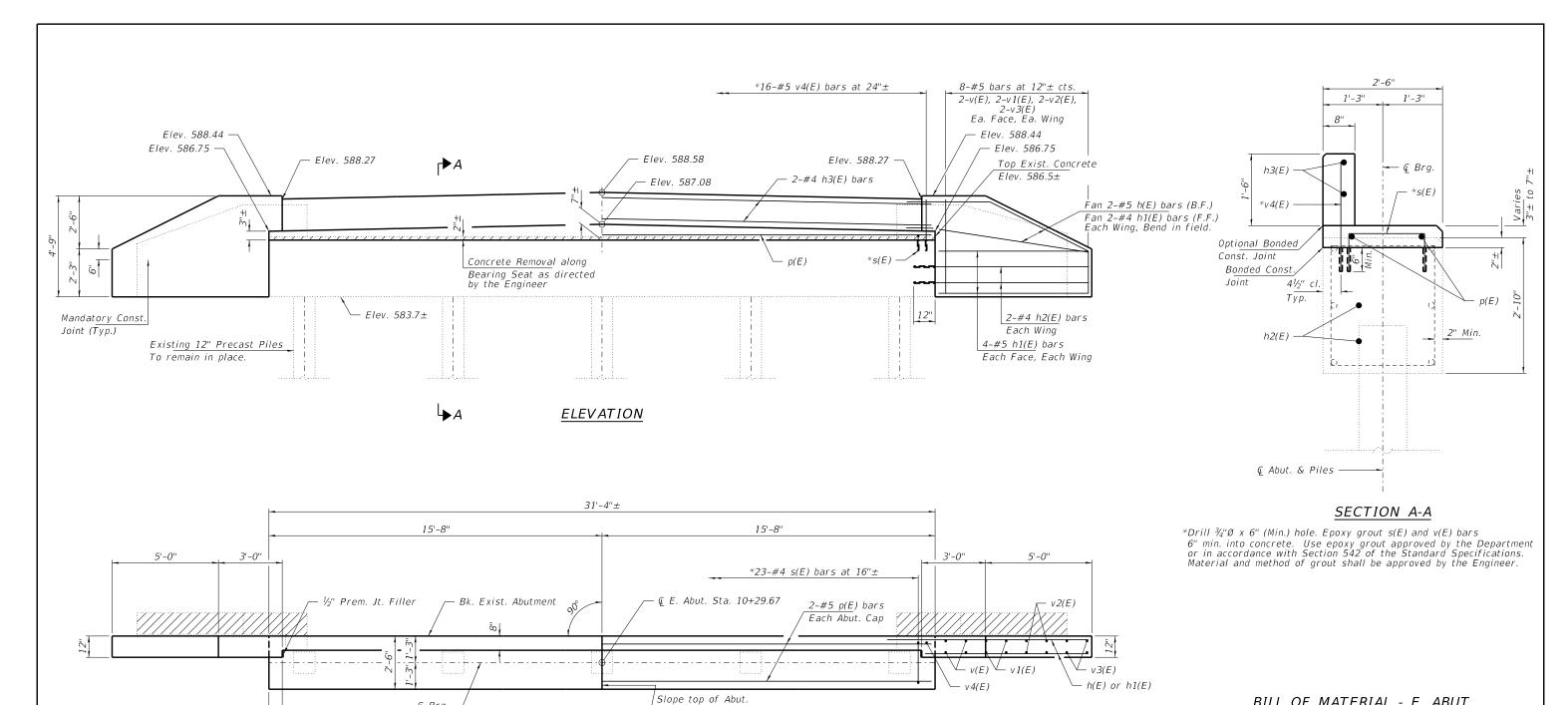
*23-#4 s(E) bars at 16"± © W. Abut. Sta. 9+70.33 ½" Prem. Jt. Filler - Bk. Exist. Abutment · v2(E) 2-#5 p(E) bars Each Abut. Cap $v(E) \bigvee v1(E)$ V ∨3(E) h(E) or h1(E)| Slope top of Abut. ⊈ Brg. from this line as shown in ELEVATION 7''± (Typ.)

PLAN



BAR S(E)

FILE	NAME = 070305-sht-bridge.dgn	USER NAME = rhoslck	DESIGNED - J.R.B.	REVISED -	07.77 07 11.11.010	WEST ABUTMENT	F.A.S.	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025 2012	1706	00-00080-00-BR	EFFINGHAM	29	14
-	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 025-3013	LAKE SARA		CONTRACT	NO. 95524	
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 8 OF 18 SHEETS		ILLINOIS FED	. AID PROJECT 1706(10	05)	



BILL OF MATERIAL - E. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	4	#5	9'-3''	
h1(E)	20	#5	7'-0''	
h2(E)	4	#5	8'-0''	
h3(E)	2	#5	31'-0"	
p(E)	2	#5	31'-0"	
s(E)	23	#4	3'-2"	
v(E)	8	#5	4'-5''	
v1(E)	8	#5	3'-10''	
v2(E)	8	#5	2'-11''	
v3(E)	8	#5	1'-11''	
v4(E)	16	#5	2'-5''	
Concrete S	tructures		Cu. Yd.	4.8
Concrete R	emoval	Cu. Yd.	4.3	
Reinf. Bars	s, Ероху Соа	ated	Pound	550

1'-7" Hatched area indicates

Concrete Removal

BAR S(E)

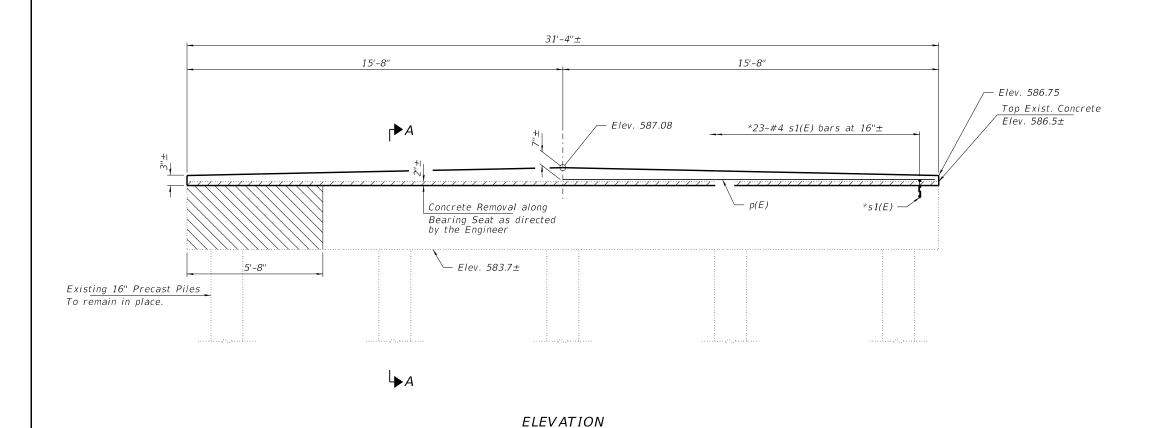
FILE NAME = 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		EAST ABUTMENT	F.A.S.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025-3013	1706	00-00080-00-BR	EFFINGHAM 29 15
SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	31R0C10RE NO. 023-3013	LAKE SARA BE	RIDGE	CONTRACT NO. 95524
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 9 OF 18 SHEETS		ILLINOIS FED. AII	D PROJECT 1706(105)

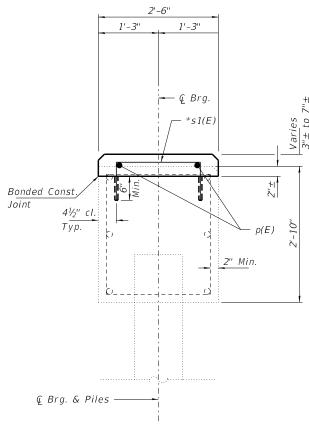
from this line as shown in ELEVATION

PLAN

⊈ Brg. —

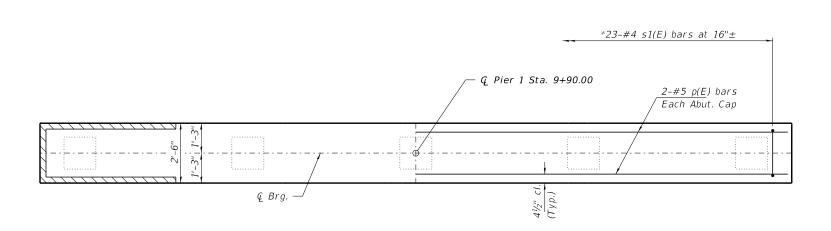
7''± (Typ.)



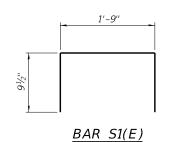


SECTION A-A

*Drill $\frac{3}{4}$ "Ø x 6" (Min.) hole. Epoxy grout s1(E) bars 6" min. into concrete. Use epoxy grout approved by the Department or in accordance with Section 542 of the Standard Specifications. Material and method of grout shall be approved by the Engineer.



PLAN





Hatched area indicates Concrete Removal



Hatched area indicates Structural Repair of Concrete (Depth ≤ 5 ")

BILL OF MATERIAL - PIER 1

	BIEE OF PHYTE PIER I								
BAR	NO.	SIZE	LENGTH	SHAPE					
p(E)	2	#5	31'-0"						
s1(E)	23	#4	3'-4"						
Concrete S	tructures		Cu. Yd.	1.1					
Concrete R	emoval		Cu. Yd.	0.8					
Reinf. Bars	s, Ероху Соа	ated	Pound	120					
Structural (Depth ≤ 5'	Repair of C ')	oncrete	Sq. Ft.	39					

FILE NAME = 070305-sht-bridge.dgn	US
HAMPTON, LENZINI AND RENWICK, INC.	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PL
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PL

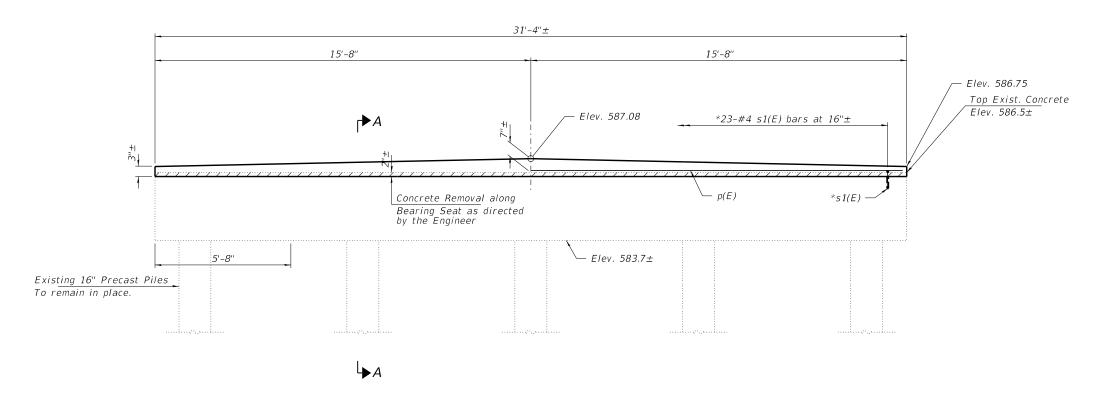
	10000-3111-billago agri	- 00
MPTON	, LENZINI AND RENWICK, INC.	
_	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PL
K	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLO

	00211111111	111001011	DEGIGIALE
CK, INC.			CHECKED
TE 201	PLOT SCALE	= \$SCALE\$	DRAWN
IGN FIRM 959	PLOT DATE	= 3/25/2020	CHECKED

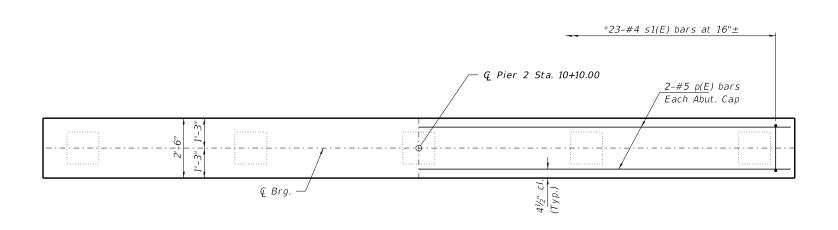
DESIGNED - J.R.B. REVISED -STATE OF ILLINOIS ED - S.W.M. REVISED -N - R.D.H. **EFFINGHAM COUNTY HIGHWAY DEPARTMENT** REVISED -REVISED -

PIER 1 STRUCTURE NO. 025-3013
SHEET NO. 10 OF 18 SHEETS

F.A.S.	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.
1706	00-0008	0-00-BR	EFFINGHAM	29	16
LAKE S	SARA BRIDGE		CONTRACT N	NO. 9552	24
		SICINIOIS	DPO JECT 1706/105		



ELEVATION



PLAN

Hatched area indicates Concrete Removal

BAR S1(E)

1'-9"

BILL OF MATERIAL - PIER 2

2'-6"

SECTION A-A

*Drill $\frac{3}{4}$ "0 x 6" (Min.) hole. Epoxy grout s1(E) bars 6" min. into concrete. Use epoxy grout approved by the Department or in accordance with Section 542 of the Standard Specifications. Material and method of grout shall be approved by the Engineer.

Bonded Const. Joint

4½" cl.

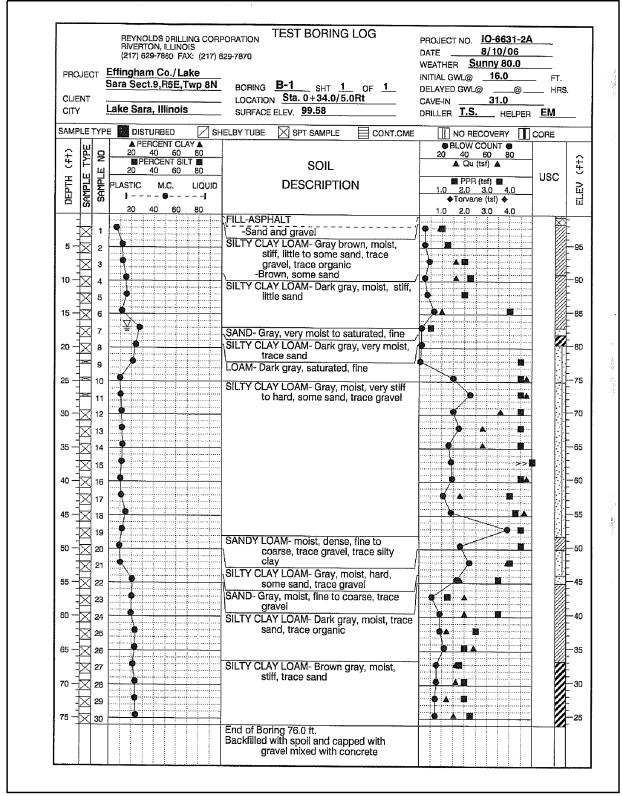
Тур.

© Brg. & Piles ∙

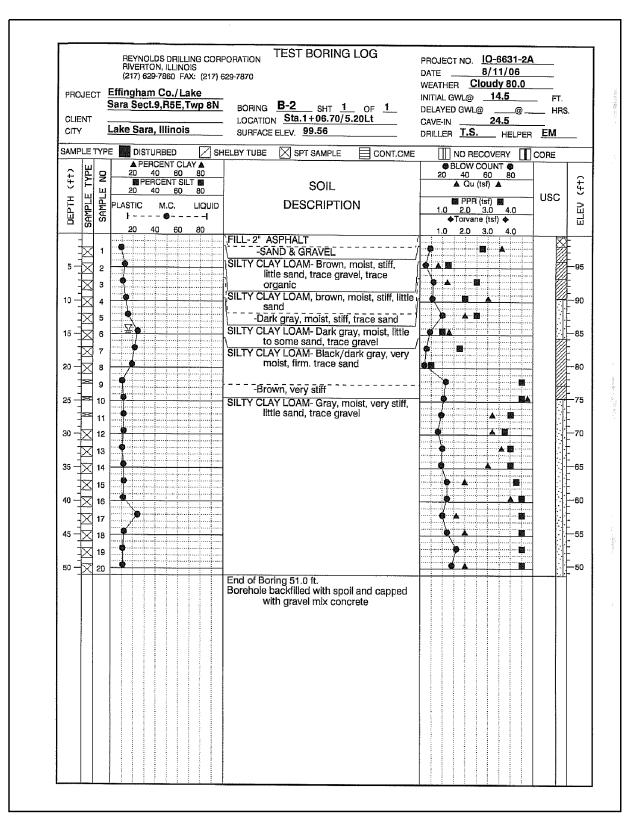
<u>2" Mi</u>n.

DILL OF MATERIAL FILE 2									
BAR	NO.	SIZE	LENGTH	SHAPE					
p(E)	2	#5	31'-0"						
s1(E)	23	#4	3'-4''	П					
Concrete S	tructures	Cu. Yd.	1.1						
Concrete R	emoval	Cu. Yd.	0.8						
Reinf. Bars	s, Ероху Соа	Pound	120						

FILE NAME = 070305-sht-bridge.dgn USER NAME = rhosick DESIGNED - J.R.B. REVISED -SECTION COUNTY PIER 2 HAMPTON, LENZINI AND RENWICK, INC. STATE OF ILLINOIS REVISED -CHECKED - S.W.M. 1706 EFFINGHAM 29 17 00-00080-00-BR STRUCTURE NO. 025-3013 **EFFINGHAM COUNTY HIGHWAY DEPARTMENT** REVISED -LAKE SARA BRIDGE CONTRACT NO. 95524 PLOT DATE = 3/25/2020 CHECKED - S.W.M. REVISED -SHEET NO. 11 OF 18 SHEETS



BORING-1



BORING-2

FILE NAME	= 070305-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		BORINGS	F.A.S.	SECTION	COUNTY	TOTAL SHEET	
HAMPT	TON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025-3013	1706	00-00080-00-BR	EFFINGHAM	29 18	
	SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	EFFINGHAM COUNTY HIGHWAY DEPARTMENT	31KUCTURE NO. 025-3013	LAKE SARA BRIDGE		CONTRACT NO. 95524		
ILLINOIS PROFESSIONA LS / PE / SE CORP. 18	LS / PE / SE CORP. 184:000959	PLOT DATE = 3/25/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 12 OF 18 SHEETS		ILLINOIS FED. AI		AID PROJECT 1706(105)	

