			COUNTY:	WHITE
			ROUTE:	FAP 332 (IL 1)
			FUNDING:	80% FED / 20% STATE
CODE No.	ITEM	UNIT	LOCATION:	RURAL
			TOTAL	S.N. 097-2018
			QUANTITY	CTC - 0010
28100207	STONE RIPRAP, CLASS A4	TON	68	68
28100209	STONE RIPRAP, CLASS A5	TON	390	390
28200200	FILTER FABRIC	SQ YD	806	806
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	568	568
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	60	60
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	182	182
44000100	PAVEMENT REMOVAL	SQ YD	133	133
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	474	474
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	195	195
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	31630	31630
50800515	BAR SPLICERS	EACH	176	176
50900200	STEEL RAILING, TYPE 2399	FOOT	64	64
51500100	NAME PLATES	EACH	1	1

1

1 REV. 12-16-2020

MODEL: Default
FILE NAME: S:\CAD Drawings\CAD Drawings\CAD Drawings\1767 - Henderson\767-172-E (R Rte. 1 over Lick Creek)\CADD Sheets\D9086610-Summary.dgn

vasconcelles
engineering corporation
2417 west white oaks drive
springfield, il 62704
phone (217)698-3114
professional design firm
registration no. 184-002107

USER NAME = jbegue	DESIGNED - J.E.B.	REVISED -	
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - R.H.D.	REVISED -	
PLOT DATE = 9/29/2020	DATE - 09/29/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	5
		CONTRACT NO. 78328		
	ILLINOIS	FED. AID PROJECT		

GUARDRAIL SCHEDULE

LACATION				STEEL RAILING TYPE 2399 (FOOT)	SPBGR TY A 6 FT POSTS (FOOT)	TRAFFIC BARRIER TRM TYPE 6A (EACH)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOVAL (FOOT)	TERMINAL MARKER - DA (EACH)
852+19.00	TO	856+64.00	RT					446	
852+69.00	TO	857+38.00	LT					470	
853+18.50	TO	853+68.50	RT				1		1
853+68.50	TO	854+18.50	RT		50.0				
854+18.50	TO	854+56.00	RT			1			
853+56.00	TO	854+06.00	LT				1		1
854+06.00	TO	854+18.50	LT		12.5				
854+18.50	TO	854+56.00	LT			1			
854+56.00	TO	854+88.00	RT	32					
854+56.00	TO	854+88.00	LT	32					
854+88.00	TO	855+25.50	RT			1			
855+25.50	TO	855+38.00	RT		12.5				
855+38.00	TO	855+88.00	RT				1		1
854+88.00	TO	855+25.50	LT			1			
855+25.50	TO	855+75.50	LT		50.0				
855+75.50	TO	856+25.50	LT				1		1
		TOTAL		**64**	**125**	**4**	**4**	**916**	**4**

PAVEMENT MARKING SCHEDULE

LOCATION				PAINT PVT MK LINE 4 (YELLOW) (FOOT)	PAINT PVT MK LINE 4 (WHITE) (FOOT)	PAVMT MRKG REM GRIND (SQ FT)
850+91.00	TO	858+41.00	CL	190		64
854+72.00			CL			
853+18.50	TO	856+25.50	LT		307	103
852+99.00	TO	856+45.50	RT		347	116
		SUB-TOTAL		190	654	283
		TOTALS		**844**		**283**

TEMPORARY CONCRETE BARRIER SCHEDULE

LOCATION			STAGE	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRD TL3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	PINNING TEMP CONC BARRIER (EACH)
852+93.50	TO	853+09.50	I			1		
853+09.70	TO	856+34.30	I	325				24
856+34.50	TO	856+50.50	I			1		
852+81.00	TO	852+97.00	II				1	
852+97.20	TO	856+46.80	II	25	325			6
856+47.00	TO	856+63.00	II				1	
		TOTAL		**350**	**325**	**2**	**2**	**30**

TEMPORARY MOT ITEMS SCHEDULE

	LOCATION			TEMP BRIDGE TRAF SIGNALS (EACH)	TEMPORARY RUMBLE STRIPS (EACH)	PCC BASE CSE W 8 (SQ YD)
*	1.5 MILES NE	STAGE I & II	RT			
	833+91.00	STAGE I & II	RT		1	
	838+91.00	STAGE I & II	RT		1	
	843+91.00	STAGE I & II	RT		1	
	851+41.00	STAGE I & II	RT	0.25		
	851+66.00	STAGE I & II	LT	0.25		
	853+39.00	856+05.50	LT			60
	857+66.00	STAGE I & II	RT	0.25		
	857+91.00	STAGE I & II	LT	0.25		
	865+41.00	STAGE I & II	LT		1	
	870+41.00	STAGE I & II	LT		1	
	875+41.00	STAGE I & II	LT		1	
*	2 MILES SW	STAGE I & II	LT			
		TOTAL		**1**	**6**	**60**

* SEE "WIDTH RESTRICTION SIGNING" SHEET

TEMP PAVEMENT MARKING SCHEDULE

LOCATION				STAGE	TEMP PVT MK LINE 4 (FOOT)	TEMP PVT MK LINE 24 (FOOT)	TEMP PVT MK REM (SQ FT)
850+91.00	TO	850+91.00	RT	I & II		12	24
851+63.00	TO	857+81.00	LT	I	620		207
853+18.50	TO	856+25.50	RT	I	307		103
858+75.00	TO	858+75.00	LT	I & II		12	24
851+51.00	TO	857+93.50	LT	II	644		215
852+99.00	TO	856+45.50	RT	II	347		116
		TOTAL			**1,918**	**24**	**689**

1 REV. 12-16-2020

MODEL: Default
FILE NAME: S:\CAD Drawings\CAD Drawings\767 - Henderson\767-172-E (Il Rte 1 over Lick Creek)\CADD Sheets\D90866-10f-Schedules.dgn

vasconcelles engineering corporation
2417 west white oaks drive
springfield, il 62704
phone (217)698-3114
professional design firm
registration no. 184-002107

USER NAME = jbegue	DESIGNED - J.E.B.	REVISED -	
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - R.H.D.	REVISED -	
PLOT DATE = 12/15/2020	DATE - 09/29/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

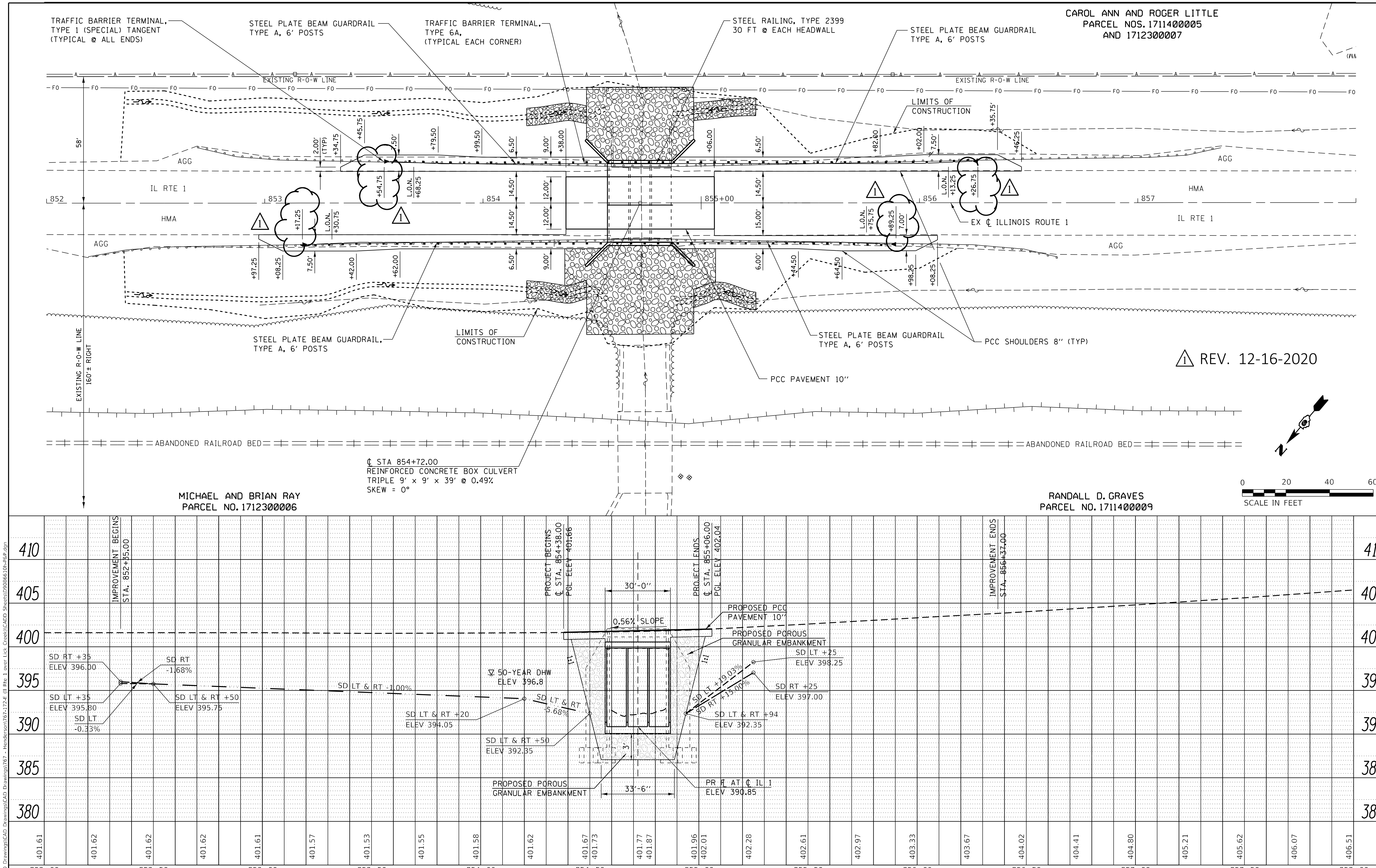
SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 1 OVER LICK CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	12

CONTRACT NO. 78328

ILLINOIS FED. AID PROJECT



CAROL ANN AND ROGER LITTLE
PARCEL NOS. 1711400005
AND 1712300007
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (TYPICAL @ ALL ENDS)
STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS
TRAFFIC BARRIER TERMINAL, TYPE 6A, (TYPICAL EACH CORNER)
STEEL RAILING, TYPE 2399
30 FT @ EACH HEADWALL
STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS
EXISTING R-O-W LINE
LIMITS OF CONSTRUCTION
IL RTE 1
HMA
AGG
EX ℄ ILLINOIS ROUTE 1
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
LIMITS OF CONSTRUCTION
STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS
PCC SHOULDERS 8" (TYP)
PCC PAVEMENT 10"
REV. 12-16-2020
EXISTING R-O-W LINE
160'± RIGHT
58'
ABANDONED RAILROAD BED
℄ STA 854+72.00
REINFORCED CONCRETE BOX CULVERT
TRIPLE 9' x 9' x 39' @ 0.49%
SKEW = 0°
MICHAEL AND BRIAN RAY
PARCEL NO. 1712300006
RANDALL D. GRAVES
PARCEL NO. 1711400009
0 20 40 60
SCALE IN FEET
IMPROVEMENT BEGINS STA. 852+35.00
PROJECT BEGINS ℄ STA. 854+38.00 PGL ELEV 401.66
PROJECT ENDS ℄ STA. 855+06.00 PGL ELEV 402.04
IMPROVEMENT ENDS STA. 856+37.00
30'-0"
0.56% SLOPE
PROPOSED PCC PAVEMENT 10"
PROPOSED POROUS GRANULAR EMBANKMENT
SD RT +35 ELEV 396.00
SD RT -1.68%
SD LT +35 ELEV 395.80
SD LT & RT +50 ELEV 395.75
SD LT -0.33%
SD LT & RT -1.00%
50-YEAR DHW ELEV 396.8
SD LT & RT +20 ELEV 394.05
SD LT & RT -5.68%
SD LT & RT +50 ELEV 392.35
SD LT +25 ELEV 398.25
SD LT +19.03%
SD RT +15.00%
SD RT +25 ELEV 397.00
SD LT & RT +94 ELEV 392.35
PROPOSED POROUS GRANULAR EMBANKMENT
33'-6"
PR FL AT ℄ IL 1 ELEV 390.85
410
405
400
395
390
385
380
401.61 401.62 401.62 401.62 401.61 401.57 401.53 401.55 401.58 401.62 401.67 401.73 401.77 401.87 401.96 402.01 402.28 402.61 402.97 403.33 403.67 404.02 404.41 404.80 405.21 405.62 406.07 406.51
852+00 852+50 853+00 853+50 854+00 854+50 855+00 855+50 856+00 856+50 857+00 857+50 858+00

vasconcelles engineering corporation, 2417 west white oaks drive, springfield, il 62704, phone (217)698-3114, professional design firm registration no. 184-002107	USER NAME = jbegue	DESIGNED - J.E.B.	REVISED -
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	PLOT SCALE = 40.0000 ' / in.	CHECKED - R.H.D.	REVISED -
	PLOT DATE = 12/15/2020	DATE - 09/29/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

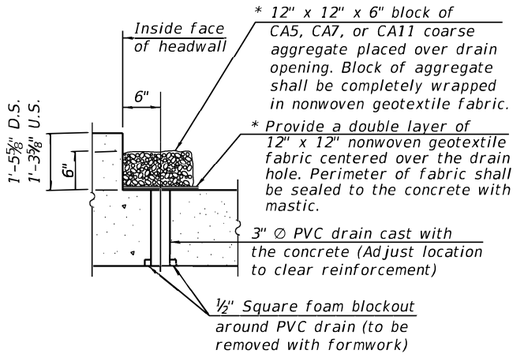
PLAN AND PROFILE
ILLINOIS ROUTE 1 OVER LICK CREEK

SCALE: 1" = 40' SHEET 1 OF 1 SHEETS STA. 852+00 TO STA. 858+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	28-3	WHITE	45	14

CONTRACT NO. 78328

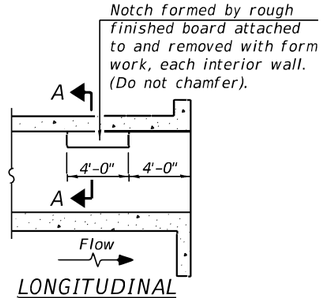
ILLINOIS FED. AID PROJECT



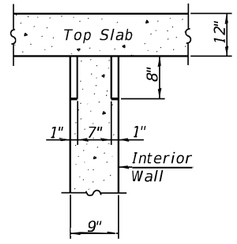
DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	409
Removal of Existing Structures	Each	1
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.	195
Reinforcement Bars, Epoxy Coated	Pound	31,630
Bar Splicers	Each	176
Steel Railing, Type 2399	Foot	64
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	751
Concrete Box Culverts	Cu. Yd.	193.1
Geocomposite Wall Drain	Sq. Yd.	136
Membrane Waterproofing System for Buried Structures	Sq. Yd.	136
Geotechnical Fabric	Sq. Yd.	235
Rock Fill	Ton	300

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Weep holes shall be provided on exterior culvert walls with a clear rise greater than 3 feet and one in each of the wingwalls. The weep holes shall be located within ⅓ of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

At least 7'-9" of the barrel shall be poured monolithically with the wingwalls.

Precast alternate is not allowed.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing existing superstructure. The contractor shall saw out the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

The horizontal limits of Removal and Disposal of Unsuitable Material for Structures shall extend to 3 feet beyond the entire footprint of the proposed culvert. It is necessary to remove the existing foundations in order to prevent the proposed culvert from bridging across the existing footings.

1 REV. 12-16-2020

Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8033

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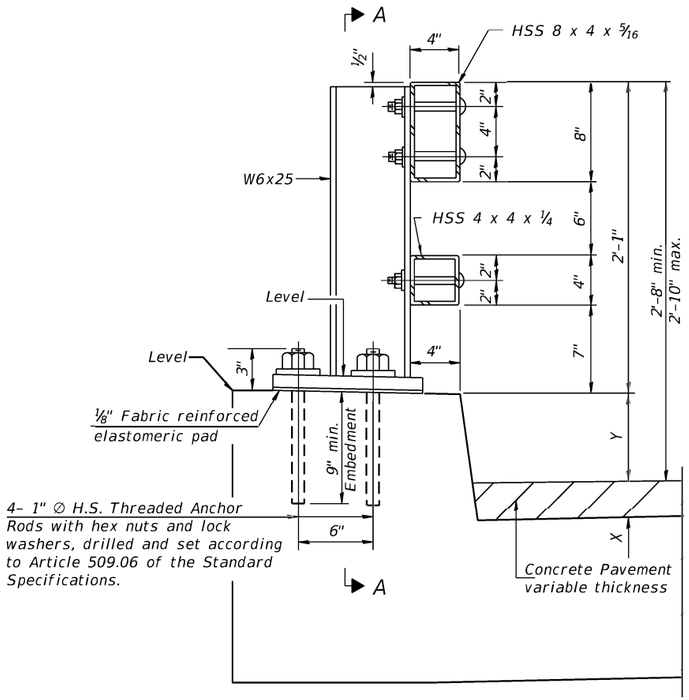
PLOT DATE =	CHECKED -	REVISED -

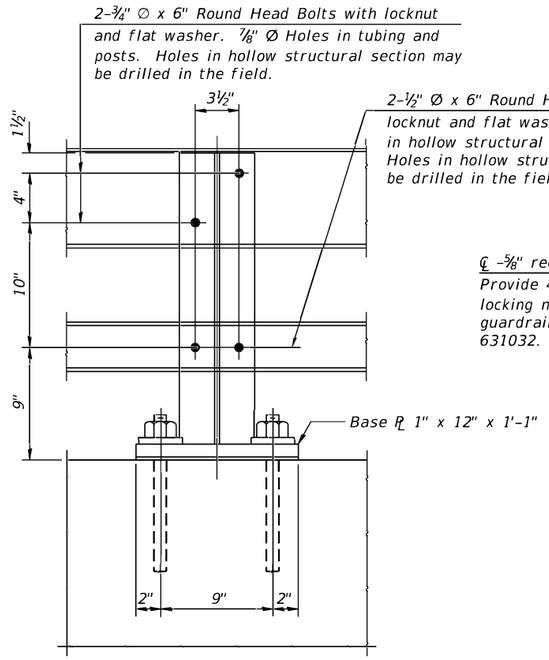
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 097-2018
SHEET NO. 2 OF 14 SHEETS

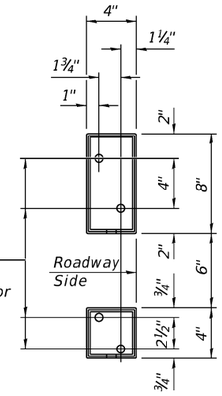
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	23
		CONTRACT NO. 78328		
	ILLINOIS FED. AID PROJECT			



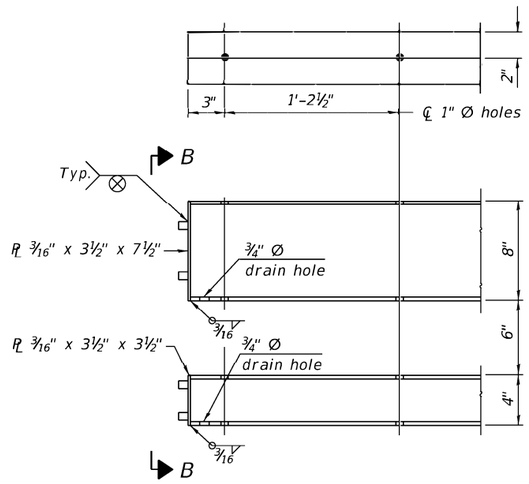
SECTION AT RAIL POST



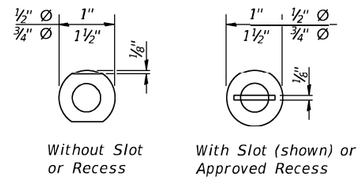
SECTION A-A



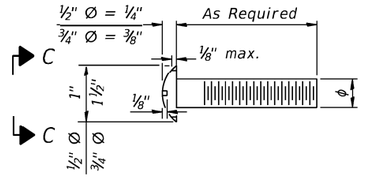
VIEW B-B



END OF RAIL DETAILS



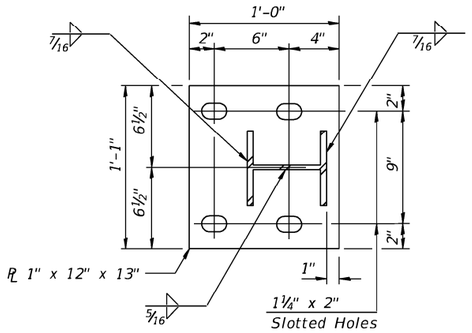
VIEW C-C



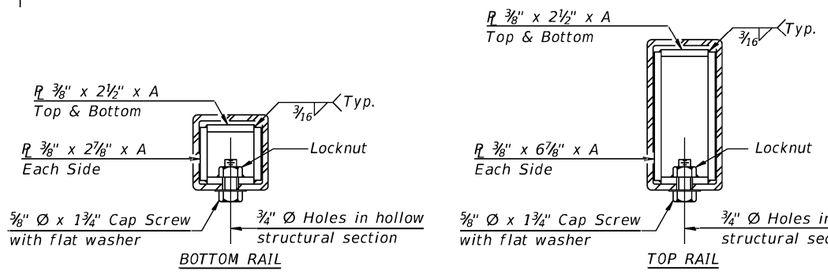
DETAIL OF 1/2" Ø & 3/4" Ø ROUND HEAD BOLTS

Curb Height Dimensions

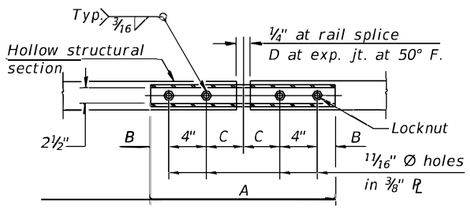
END	Corner	X	Y	Total
Upstream	North	6 5/8"	9"	1'-3 5/8"
	South	8 5/8"	7"	
Downstream	North	8 5/8"	9"	1'-5 5/8"
	South	10 5/8"	7"	



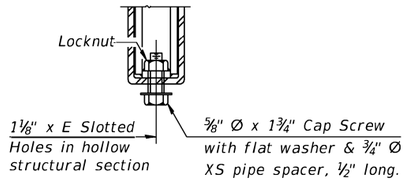
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE PL TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

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

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	64

(6'-3" Maximum Post Spacing)

1 REV. 12-16-2020

R-31

8-11-2017

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME =	DESIGNED - MAH	REVISED -
	CHECKED - KES	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
STRUCTURE NO. 097-2018
SHEET NO. 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	2B-3	WHITE	45	29
		CONTRACT NO. 78328		
	ILLINOIS FED. AID PROJECT			