

FRED M. LIN, P.E. ILLINOIS REGISTERED ENGINEER NO. 062-056704 REGISTRATION EXPIRES NOV. 30, 2013

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CONTRACT NO. 89699 GATALOG NO. 035380-00



GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A FULL DEPTH SAWCUT SHALL BE MADE TO ACHIEVE A CLEAN BREAK BETWEEN THE PROPOSED AND THE EXISTING ITEM. THE SAWCUT IS TO BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL.

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 PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATION.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE				
PG:	SBS OR SBR 76-28 AC	SBS OR SBR 76-28 AC				
DESIGN AIR VOIDS:	4.0% @ N-50	4.0% @ N-50				
MIXTURE COMPOSITION:	IL 9.5	IL 19.0				
FRICTION AGGREGATE:	MIXTURE D	NZA				
MIXTURE WEIGHT:	116 LB/SQ YD/IN	116 LB/SQ YD/IN				
QUALITY MGMT. PROGRAM:	QC/QA	QC/QA				
SUBLOT SIZE:	NZA	N/A				

NOTES: PER IDOT DISTRICT 4 GENERAL NOTE 406.10, INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE. COMPACTION SHALL BE DONE ACCORDING TO SECTION 406 OF THE ILLINOIS STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

TYPE OF SURFACE TO BE TACKED:	RESIDUAL ASPHALT RATE
MILLED HMA, AGED NON-MILLED HMA, MILLED CONCRETE NON-MILLED CONCRETE & TINED CONCRETE	0.08 LB/SQ FT
HMA LIFTS, IL-4.75 & BRICK	0.04 LB/SQ FT

NOTES: RESIDUAL ASPHALT RATES PER IDOT DISTRICT 4 GENERAL NOTE 406.05.

POLYMERIZED BIT MATERIALS (PRIME COAT)	0.25 LB/SQ FT
HOT-MIX ASPHALT	116 LB/SQ YD/INCH
NITROGEN FERTILIZER NUTRIENTS	60 LB/ACRE
PHOSPHORUS FRETILIZER NUTRIENTS	60 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	60 LB/ACRE

ALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNING NEEDED FOR THIS PROJECT ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND CONFORM TO MUTCD GUIDELINES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL DETOUR SIGNING AND TRAFFIC CONTROL DEVICES ARE GROUND MOUNTED AND IN ACCORDANCE WITH SECTION 700 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN, ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

BUTT JOINTS SHALL HAVE A CLEAN, SOUND, VERTICAL FACE AND SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

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 CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO MINIMIZE THE SIZE AND SEVERITY OF DISTURBED AREAS.

THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DUST THAT LEAVES THE SITE WHEN NEAR RESIDENTIAL PROPERTY.

		DESIGNED -	RC	REVISED -			FARNHAM STREET OVER RNSE RAIIWAY	F.A.U.	SECTION	COUNTY	TOTAL SHEET
LIN ENGINEERING,LID.		DRAWN -	RC	REVISED -	STATE OF ILLINOIS			6790	08-00601-19-BR	KNOX	70 2
Consulting Engineers	PLOT SCALE = 2.0000 ' / in.	CHECKED -	ST	REVISED -	DEPARTMENT OF TRANSPORTATION		GENERAL NUTES			CONTRAC	T NO. 89699
vvestmont, Illinois	PLOT DATE = 10/30/2017	DATE -	10/2017	REVISED -		FARNHAM STREET OVER BNSF RAILWAY GENERAL NOTES F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT NO. 89699					

COMMITMENTS

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.



DEPARTMENT OF TRANSPORTATION

-------Consulting Engineers LOT SCALE = 20.0000 '/ in. CHECKED ST REVISED --------Westmont, Illinois PLOT DATE = 10/30/2017 DATE 10/2017 REVISED

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS

FIONS 6790 08-00601-19-BR KNOX 70	-	R	BNSF RAILWAY	F.A.U. RTE.	SECTION	COUNTY	, TOTAL SHEETS	SHEET
	1 3	6	2M	6790	08-00601-19-BR	KNOX	70	3
CONTRACT NO. 89	89699		113	_		CONTR	ACT NO.	39699
STA. TO STA. ILLINOIS FED. AID PROJECT			STA. TO STA.		ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0013 5.N.048-6027			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36				
20101100	TREE TRUNK PROTECTION	EACH	2	2				
20200100	EARTH EXCAVATION	CU YD	90	90				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	47		47			
20400800	FURNISHED EXCAVATION	CU YD	210	210				
20700220	POROUS GRANULAR EMBANKMENT	CU YD	72		72			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,639	1,639				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	30	30				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	30	30				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	30	30				
25200110	SODDING, SALT TOLERANT	SO YD	1,639	1,639				
25200200	SUPPLEMENTAL WATERING	UNIT	15	15				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	160	160				
28000400	PERIMETER EROSION BARRIER	FOOT	459	459				
28000510	INLET FILTERS	EACH	12	12				
35101400	AGGREGATE BASE COURSE, TYPE B	TON	96	96				
40600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,100	1,100				
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	3,990	3, 990				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	191	191				
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	9	9				
40600990	TEMPORARY RAMP	SO YD	52	52				
40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	806	806				
40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	260	260				
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SO YD	200	200				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	204	204				
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	6,753.5	6,753.5				
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	801	801				
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	20	20				
42400800	DETECTABLE WARNINGS	SQ FT	20	20				
44000100	PAVEMENT REMOVAL	SQ YD	166	166				

		SUMMARY OF QUANTITIES			CONSTR	UCTION CODE BRIDGE REHAE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	ADDED 0013
					UNDAN	5.14.040 0021
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	228	228	
4	44000500	COMBINATION CURB AND CUTTER REMOVAL	FOOT	220	220	
4	44000600	SIDEWALK REMOVAL	SQ FT	6,121	6,121	
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
	50102400	CONCRETE REMOVAL	CU YD	41		41
ļ	50157300	PROTECTIVE SHIELD	SQ YD	235		235
ļ	50200100	STRUCTURE EXCAVATION	CU YD	611		611
	50300225	CONCRETE STRUCTURES	CU YD	183.1		183.1
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	169.6		169.6
-	50300260	BRIDGE DECK GROOVING	SQ YD	657		657
	50300300	PROTECTIVE COAT	SQ YD	1, 172		1,172
	50301350			110.3		110, 3
	50100105		SO ET	6 204		6 204
	50400405	PRECASI PRESIRESED CONCRETE DECK DEAMS (21 DEFTH)		5,040		5,204
	50800105	REINFORCEMENT BARS	POUND	5,040		5,040
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	79,280		79, 280
1	51500100	NAME PLATES	EACH	1		1
!	52000020	PREFORMED JOINT SEAL 1 3/4"	FOOT	94		94
-	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1	1	
1	58700300	CONCRETE SEALER	SQ FT	587		587
!	59000200	EPOXY CRACK INJECTION	FOOT	31		31
!	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	209		209
	60100915	PIPE DRAINS 6"	FOOT	225	225	
-	60200105	CATCH BASINS. TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
-	60255500	MANHOLES TO BE ADJUSTED	EACH	6	6	
	60260100	INLETS TO BE ADJUSTED	EACH	8	8	
	50265600	VALVE ROXES TO BE ADJUSTED	EACH	1	1	
	60404300		EVCH	8	8	
-	60404300	CONDINATION CONCRETE CUDP AND CUTTED TYPE D C 12	E007	1 272 5	1 272 5	
L	PDPD3800	CUMDINATION CONCRETE CURB AND GUTTER, TIPE 8-5.12	F 001	1, 212. 3	1, 2, 12, 3	
╞	66500105	WOVEN WIRE FENCE, 4'	FOOT	15	15	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	

SPECIALTY ITEM

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DESIGNED -RC REVISED -FARNHAM STREET OVER BN LIN ENGINEERING,LTD. RC STATE OF ILLINOIS DRAWN -REVISED -SUMMARY OF QUAN Consulting Engineers Westmont, Illinois CHECKED -DATE -DEPARTMENT OF TRANSPORTATION PLOT SCALE = 2.0000 '/ in. ST REVISED -SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS ST PLDT DATE = 11/16/2017 10/2017 REVISED -

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NSF RAIL	WAY	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.				
TITIES		6790	08-00601-19-BR	KNOX	70	4				
IIIIES				CONTRACT	T NO. 8	9699				
ΓΑ.	TO STA.		ILLINOIS FED. AID PROJECT							

	SUMMARY OF OUANTITIES								
CODE NO.	ІТЕМ	UNIT	TOTAL OUANTITY	0004 URBAN	0013 5. N. 048-602				
67100100	MOBILIZATION	LSUM	1	1					
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,937	1,937					
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	45	45					
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10					
X0322024	TRENCH DRAIN	EACH	7	7					
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	400		400				
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	203	203					
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL. VARIABLE DEPTH	SO YD	19	19					
X440A200	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING)	SQ YD	1,457	1,457					
X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	491		491				
X5091730	BRIDGE FENCE RAILING (SPECIAL)	FOOT	274		274				
X5091755	PARAPET RAILING, SPECIAL	FOOT	274		274				
X5091765	PIPE HANDRAIL (SPECIAL)	FOOT	202		202				
X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1,254	1.254					
Z0004552	APPROACH SLAB REMOVAL	SO YD	220	220					
20007124	STEEL RAILING (SPECIAL)	FOOT	561		561				
Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	ËACH	3	3					
70010700		SQ YD	132	132					
70012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH FOULAL TO OR LESS THAN 5 INCHES)	SO FT	102		102				
70013798		LSUM	1	1					
70016702		LSUM	1	1					
70022800		FOOT	41	41					
20022800	PIDE UNDERDRAINS FOR STRUCTURES 4"	FOOT	394		384				
20048304	FIFE UNDERDRAINS FOR STRUCTURES 4		504						
20048665	RAILRUAD PROTECTIVE LIABILITY INSURANCE	LSUM		1					
Z0076600	TRAINEES	HOUR	1,000	•					
20076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000						
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• SPECIALTY ITEM

LIN ENGINEERING, LTD. Consulting Engineers	PLOT SCALE = 2.0000 '/ in,	DESIGNED DRAWN CHECKED	-	RC RC ST	REVISED REVISED REVISED		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FARNHAM SUN	STREE IMARY	T OVER OF QU	BNS
Westmont, Minols	PLOT DATE = 11/16/2017	DATE	-	10/2017	REVISED	_		SCALE: N.T.S.	SHEET NO. 2	OF 2	SHEETS	STA

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F RAILWAY R 200001-19-88 KNOX 70 5	F RALLWAY 120 100-0050119-88 100/7 5				L CONTRACT		0000
		ISF RAILWAY	F.A.U. RTE. 6790 08-0	SECTION	COUNTY KNOX	SHEETS 70	NO.
			IF.AU		1	TOTAL	SHEET
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LANDSCAPING TABLE

FROM STATION	TO STATION	LT/RT	TOPSOIL FURNISH AND PLACE, 4"	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING, Salt Tolerant
			21101615	25000400	25000500	25000600	25200110
			SQ YD	POUND	POUND	POUND	SQ YD
10+20.21	10+29.74	LT	11.15	0.14	0.14	0.14	11.15
10+20.21	10+31.00	LT	1.20	0.01	0.01	0.01	1.20
10+35.01	10+73.37	RT	49.89	0.62	0.62	0.62	49.89
10+35.03	10+69.84	RT	2.72	0.03	0.03	0.03	2.72
10+40.55	10+55.00	LT	1.92	0.02	0.02	0.02	1.92
10+41.74	10+98.00	LT	69.18	0.86	0.86	0.86	69.18
10+57.84	10+97.23	LT	5.65	0.07	0.07	0.07	5.65
10+72.85	10+74.36	RT	0.12	0.00	0.00	0.00	0.12
10+84.33	11+21.77	RT	2.49	0.03	0.03	0.03	2.49
10+85.37	10+98.00	RT	13.84	0.17	0.17	0.17	13.84
11+00.17	11+10.41	LT	1.57	0.02	0.02	0.02	1.57
11+03.00	11+09.33	LT	5.85	0.07	0.07	0.07	5.85
11+03.00	11+23.25	RT	23.50	0.29	0.29	0.29	23.50
11+28.30	11+36.34	LT	1.32	0.02	0.02	0.02	1.32
11+29.33	13+33.78	LT	197.58	2.45	2.45	2.45	197.58
11+35.25	11+76.77	RT	49.14	0.61	0.61	0.61	49.14
11+36.67	11+76.77	RT	2.00	0.02	0.02	0.02	2.00
11+39.19	13+40.99	LT	65.49	0.81	0.81	0.81	65.49
11+88.95	12+30.64	RT	49.08	0.61	0.61	0.61	49.08
11+89.09	12+05.51	RT	0.57	0.01	0.01	0.01	0.57
12+42.18	13+31.35	RT	16.59	0.21	0.21	0.21	16.59
12+42.64	13+27.82	RT	59.81	0.74	0.74	0.74	59.81
12+63.49	13+46.48	LT	40.20	0.50	0.50	0.50	40.20
12+71.97	12+97.68	RT	2.01	0.02	0.02	0.02	2.01
12+97.88	13+39.25	RT	23.06	0.29	0.29	0.29	23.06
14+78.05	15+27.98	RT	29.01	0.36	0.36	0.36	29.01
14+85.92	16+23.57	LT	51.14	0.63	0.63	0.63	51.14
14+91.29	18+65.00	RT	438.03	5.43	5.43	5.43	438.03
14+97.40	17+04.07	LT	238.89	2.96	2.96	2.96	238.89
16+22.94	17+03.88	LT	27.63	0.34	0.34	0.34	27.63
17+21.44	17+52.54	LT	5.89	0.07	0.07	0.07	5.89
17+24.07	17+51.41	LT	30.87	0.38	0.38	0.38	30.87
17+62.22	18+13.95	LT	9.69	0.12	0.12	0.12	9.69
17+63.41	18+12.99	LT	58.00	0.72	0.72	0.72	58.00
18+23.90	18+65.00	LT	6.46	0.08	0.08	0.08	6.46
18+24.95	18+65.00	LT	47.04	0.58	0.58	0.58	47.04
	ROUN	DED TOTAL	1,639	30	30	30	1,639

	LOCATION		EARTH EXCAVATION	EARTH EXC. ADJ. FOR Shrinkage (25%)	EMBANKMENT	FURNISHED EXCAVATION
STATION	STATION		20200100			20400800
STATION	STATION	LIZKI	(CU YD)	(CU YD)	(CU YD)	(CU YD)
10+19.76	13+46.63	LT	18.65	13.99	94.11	-80.12
10+35.00	13+39.25	RT	14.44	10.83	56.13	-45.30
14+78.05	18+65.00	RT	23.38	17.53	68.21	-50.68
14+85.92	18+65.00	LT	32.89	24.67	61.53	-36.86
	ROUNI	DED TOTAL	90	70	280	210

<u>TREE REMOVAL (OVER 15 UNITS</u> DIAMETER) - 20100210

STATION	LT/RT	UNIT
14+88.94	LT	36
	TOTAL	36

PERIMETER EROSION BARRIER 28000400

FROM STATION	TO STATION	LT/RT	FOOT
14+78.05	18+00.00	RT	321.99
14+87.36	16+23.71	LT	136.29
	ROUNI	DED TOTAL	459

<u>INLET FILTERS</u> 28000510

STATION	LT/RT	EACH
10+90.34	RT	1
10+91.11	LT	1
12+66.00	RT	1
12+97.86	RT	1
13+27.14	RT	1
13+27.23	LT	1
15+04.80	RT	1
15+05.01	LT	1
16+71.13	LT	1
17+41.49	RT	1
17+42.88	LT	1
17+48.42	LT	1
	TOTAL	12

<u>TREE TRUNK PROTECTION</u> 20101100

STATION	LT/RT	EACH
10+49.18	LT	1
10+90.20	LT	1
	TOTAL	2

<u>WOVEN WIRE FENCE, 4'</u> <u>66500105</u>

STATION	STATION	LT/R
11+65.23	11+80.00	LT
		τοται

FENCE REMOVAL Z0022800

STATION	STATION	LT/RT
11+65.23	12+05.45	LT
		TOTAL

		DESIGNED -	RC	REVISED -			FARNHAM STREET OVER	BNSF RAILWAY	F.A.U. RTE.	SECTION	COUNTY	TOTAL S SHEETS	SHEET NO.
		DRAWN -	RC	REVISED -				NTITIES	6790	08-00601-19-BR	KNOX	70	6
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	ST	REVISED -	DEPARTMENT OF TRANSPORTATION		SCIEDULE OF UDA		_		CONTRAC	T NO. 89	1699
Westmont, minors	PLOT DATE = 11/16/2017	DATE -	10/2017	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.		ILLINOIS FED. A	AID PROJECT		



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FOOT
14.77
15

Г	FOOT
	40.24
-	41

AGGREGATE BASE COURSE, TYPE B <u>35101400</u>

FROM STATION	TO STATION	OFFSET	TON
11+12.35	13+11.38	RT	30.12
11+13.51	13+15.70	LT	30.60
15+09.37	18+00.00	RT	17.71
15+13.84	18+00.00	LT	17.47
ROUNDED TOTAL 96			

POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) - 40600285

FROM STATION	TO STATION	OFFSET	NO. OF LIFTS	POUND
11+12.35	13+11.38	RT	4	314.8
11+13.51	13+15.70	LT	4	319.8
15+09.37	18+00.00	RT	2	229.6
15+13.84	18+00.00	LT	2	226.4
		ROUN	IDED TOTAL	1,100

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) - 40600295

FROM STATION	TO STATION	SURFACE	NO. OF LIFTS	POUND
10+35.00	10+65.00	BUTT JOINT	1	67.2
10+65.00	10+70.92	SURFACE	1	13.3
10+70.92	13+13.43	SURFACE	1	275.0
10+70.92	13+13.43	BINDER	1	550.0
10+70.92	13+13.43	BINDER	5	1375.1
15+11.72	17+73.52	SURFACE	1	296.3
15+11.72	17+73.52	BINDER	1	592.7
15+11.72	17+73.52	BINDER	2	592.7
17+73.52	18+35.00	SURFACE	1	145.5
18+35.00	18+65.00	BUTT JOINT	1	76.4
		ROUN	IDED TOTAL	3.990

HOT-MIX ASPHALT SURFACE REMOVAL <u>- BUTT JOINT - 40600982</u>

FROM STATION	TO STATION	AREA (SQ YD)
10+35.00	10+65.00	93.3
18+37.44	18+65.00	97.3
ROUNDED TOTAL		191

TEMPORARY RAMP <u>42000070</u>

FROM STATION	TO STATION	AREA (SQ YD)
10+35.00	10+43.33	25.9
18+56.67	18+65.00	25.9
ROUNDED TOTAL		52

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB - 42000070

FROM STATION	TO STATION	AREA (SQ YD)
13+13.43	13+43.43	100.0
14+81.72	15+11.72	100.0
ROUNDED TOTAL		200

PAVEMENT REMOVAL <u>44000100</u>

FROM STATION	TO STATION	OFFSET	AREA (SQ YD)
11+12.35	13+11.38	RT	29.82
11+13.51	13+15.70	LT	34.36
15+09.37	18+00.00	RT	56.74
15+13.84	18+00.00	LT	44.89
ROUNDED TOTAL			166

COLD MILLING, 3/4"

10+70.92 11+13.06

ROUNDED TOTAL

ΤO

STATION

<u>Z0010700</u> FROM

STATION

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH - X4401198

FROM STATION	TO STATION	AREA (SQ YD)
10+65.00	10+70.92	18.38
ROUNI	DED TOTAL	19

APPROACH SLAB REMOVAL <u>Z0004552</u>

FROM STATION	TO STATION	AREA (SQ YD)
13+13.43	13+45.39	108.68
14+79.30	15+11.72	111.00
ROUN	IDED TOTAL	220

PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH) - X4400100

FROM STATION	TO STATION	AREA (SQ YD)
17+73.52	18+35.00	202.02
ROUNDED TOTAL		203

PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING), 3/4" - X440A200

FROM STATION	TO STATION	AREA (SQ YD)
11+13.06	13+13.44	633.01
15+11.72	17+73.52	823.15
ROUN	1,457	

PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT - 40600985

FROM STATION	TO STATION	AREA (SQ YD)
18+35.00	18+37.44	8.5
ROUN	DED TOTAL	9

POLYMERIZED HOT-MIX ASPHALT BINDER <u>COURSE, IL-19.0, N50 - 40603230</u>

FROM STATION	TO STATION	TON
10+70.92	13+13.43	542.76
15+11.72	17+73.52	262.58
ROUN	806.0	

POLYMERIZED HOT-MIX ASPHALT SURFACE <u>COURSE, MIX "D", N50 - 40603535</u>

FROM STATION	TO STATION	TON
10+65.00	10+70.92	2.7
10+70.92	13+13.43	110.8
15+11.72	17+73.52	119.4
17+73.52	18+35.00	29.3
ROUNI	260.0	

AREA

(SQ YD)

131.66

132

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH - 42300200

<u>o inch 12300200</u>				
FROM STATION	TO STATION	LT/RT	AREA (SQ YD)	
10+26.75	10+44.75	LT	20.3	
10+70.36	10+88.36	RT	19.8	
11+06.34	11+32.34	LT	32.0	
11+20.24	11+38.24	RT	19.9	
11+73.94	11+91.94	RT	19.5	
12+27.63	12+45.63	RT	19.2	
17+01.05	17+27.05	LT	32.6	
17+48.39	17+66.39	LT	20.9	
18+09.97	18+27.97	LT	19.4	
ROUNDED TOTAL 204				

PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH <u>42400100</u>

FROM STATION	TO STATION	LT/RT	AREA (SQ FT)
10+20.21	10+27.74	LT	28.56
10+35.00	10+71.37	RT	157.57
10+43.74	11+07.33	LT	372.49
10+87.37	11+21.25	RT	216.47
11+31.33	13+38.71	LT	1442.43
11+37.57	11+74.95	RT	188.51
11+90.96	12+28.65	RT	188.45
12+44.65	13+37.88	RT	759.71
14+90.31	18+65.00	RT	1868.85
14+96.39	17+02.08	LT	1029.23
17+26.08	17+49.41	LT	116.67
17+65.41	18+10.99	LT	227.91
18+26.99	18+65.00	LT	156.30
ROUNDED TOTAL			6,753.5

PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH <u>42400300</u>

FROM STATION	TO STATION	LT/RT	AREA (SQ FT)
10+27.74	10+43.74	LT	80.00
10+71.37	10+87.37	RT	81.07
11+07.33	11+31.33	LT	120.00
11+21.25	11+37.57	RT	80.00
11+74.95	11+90.96	RT	80.00
12+28.65	12+44.65	RT	80.01
17+02.08	17+26.08	LT	120.00
17+49.41	17+65.41	LT	80.00
18+10.99	18+26.99	LT	79.89
	ROUN	IDED TOTAL	801.0

DESIGNED REVISED RC FARNHAM STREET OVER LIN ENGINEERING, LTD. STATE OF ILLINOIS DRAWN RC REVISED Consulting Engineers SCHEDULE OF Q PLOT SCALE = 2.0000 ′ / m. CHECKED ST REVISED **DEPARTMENT OF TRANSPORTATION** Westmont, Illinois SCALE: SHEET NO. 2 OF 3 SHEETS DATE 10/2017 PLOT DATE = 11/16/2017 REVISED

PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH <u>42400410</u>

FROM STATION	TO STATION	LT/RT	AREA (SQ FT)
10+98.00	11+03.00	LT	10.0
10+98.00	11+03.00	RT	10.0
	20.0		

DETECTABLE WARNINGS

42400800

FROM STATION	TO STATION	LT/RT	AREA (SQ FT)
10+98.00	11+03.00	LT	10.0
10+98.00	11+03.00	RT	10.0
ROUNDED TOTAL			20

DRIVEWAY PAVEMENT REMOVAL <u>44000200</u>

FROM STATION	TO STATION	LT/RT	AREA (SQ YD)	
10+28.37	10+43.16	LT	18.94	
10+70.31	10+88.23	RT	22.01	
11+03.74	11+35.55	LT	37.90	
11+21.78	11+36.67	RT	27.31	
11+74.12	11+93.73	RT	21.54	
12+26.41	12+45.38	RT	20.27	
17+01.14	17+26.83	LT	33.47	
17+49.60	17+69.62	LT	23.59	
18+09.74	18+28.62	LT	22.21	
ROUNDED TOTAL 228				

SIDEWALK REMOVAL <u>44000600</u>

FROM STATION	TO STATION	LT/RT	AREA (SQ FT)
10+20.21	13+46.20	LT	1638.46
10+35.00	13+41.00	RT	1487.63
14+78.63	18+65.00	RT	1518.37
14+83.75	18+65.00	LT	1475.66
ROUNDED TOTAL			6,121

R BNSF RAILWAY JANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		6790	08-00601-19-BR	KNOX	70	7	
				CONTRACT	NO. 8	9699	
	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

FIRE HYDRANTS TO BE RELOCATED 56400400

STATION	LT/RT	EACH
10+99.02	RT	1
	TOTAL	1

MANHOLES TO BE ADJUSTED 60255500

STATION	LT/RT	EACH
10+91.82	RT	1
12+63.00	LT	1
12+90.95	LT	1
17+30.56	LT	1
17+41.67	RT	1
18+30.62	RT	1
	TOTAL	6

INLETS TO BE ADJUSTED 60260100

STATION	LT/RT	EACH
10+90.34	RT	1
10+91.11	LT	1
13+27.14	RT	1
13+27.23	LT	1
15+04.80	RT	1
15+05.01	LT	1
17+41.49	RT	1
17+42.88	LT	1
	TOTAL	8

VALVE BOXES TO BE ADJUSTED 60266600

STATION	LT/RT	EACH
11+92.99	RT	1
	TOTAL	1

<u>CLEANING EXISTING MANHOLE OR</u> <u>HANDHOLE - Z0010614</u>

STATION	LT/RT	EACH
12+66.00	RT	1
12+97.86	LT	1
16+71.13	LT	1
	TOTAL	3

<u>PIPE DRAINS 6"</u> 60100915

00100515			
FROM STATION	TO STATION	LT/RT	FOOT
10+90.32	11+23.25	RT	34.93
10+91.09	11+09.33	LT	21.56
11+35.25	11+76.95	RT	41.70
11+88.95	12+30.65	RT	41.70
17+24.07	17+51.41	LT	27.33
17+63.41	18+12.99	LT	49.58
18+24.99	18+32.86	LT	7.88
	ROUN	IDED TOTAL	225

TRENCH DRAIN X0322024

STATION	LT/RT	EACH
11+19.35	LT	1
11+29.22	RT	1
11+82.93	RT	1
12+36.62	RT	1
17+14.03	LT	1
17+57.36	LT	1
18+18.94	LT	1
	TOTAL	7

COMBINATION CURB AND GUTTER REMOVAL 44000500

	FROM STATION	TO STATION	LT/RT	FOOT
	10+26.75	11+13.51	LT	86.78
[]	10+35.00	11+12.35	RT	77.38
	18+36.90	18+65.00	LT	28.12
:	18+38.00	18+65.00	RT	27.01
		ROUN	IDED TOTAL	220

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 - 60603800

FROM STATION	TO STATION	LT/RT	FOOT
10+26.75	13+15.70	LT	288.97
10+35.00	13+11.38	RT	276.39
15+09.37	18+65.00	RT	355.71
15+13.84	18+65.00	LT	351.15
	ROUNDED TOTAL		

MODIFIED URETHANE PAVEMENT MARKING-LINE 4" <u>78009004</u>

FROM STATION	TO STATION	OFFSET	TYPE	FOOT
10+35.00	18+65.00	CL	4DSY	1,660.00
13+41.38	14+79.60	RT	4SW	138.21
13+45.49	14+83.84	LT	4SW	138.36
		ROUN	DED TOTAL	1,937

MODIFIED URETHANE PAVEMENT MARKING - LINE 12" - 78009012

STATION	LT/RT	FOOT
11+00.00	CL	45.00
ROUN	ROUNDED TOTAL	

RAISED REFLECTIVE PAVEMENT MARKER 78100100

STATION	LT/RT	EACH
11+14.00	CL	1
11+94.00	CL	1
12+74.00	CL	1
13+54.00	CL	1
14+34.00	CL	1
15+14.00	CL	1
15+94.00	CL	1
16+74.00	CL	1
17+54.00	CL	1
18+34.00	CL	1
	TOTAL	10

FRAMES AND GRATES, TYPE 3 60404300

STATION	LT/RT	EACH
10+90.34	RT	1
10+91.11	LT	1
13+27.14	RT	1
13+27.23	LT	1
15+04.80	RT	1
15+05.01	LT	1
17+41.49	RT	1
17+42.88	LT	1
	TOTAL	8

CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID - 60200105

STATION	LT/RT	EACH
18+32.86	LT	1
	TOTAL	1

GROOVING FOR RECESSED PAVEMENT MARKING 5" X7830070

FROM STATION	TO STATION	OFFSET	FOOT		
10+35.00	13+13.43	CL	556.87		
15+11.72	18+65.00	CL	706.56		
ROUNDED TOTAL 1,264					

		DESIGNED -	RC	REVISED -			FARNHAM STREET OVER	BNSF BAILWAY	F.A.U. RTE	SECTION	COUNTY	TOTAL ' SHEETS	SHEET NO.
		DRAWN -	RC	REVISED -	STATE OF ILLINOIS				6790	08-00601-19-BR	KNOX	70	8
Consulting Engineers	PLOT SCALE = 2.0000 '/ in.	CHECKED -	ST	REVISED -	DEPARTMENT OF TRANSPORTATION Schedule of duantities		ANTITIE5			CONTRACT	NO. 8	9699	
Westmont, Illinois	PLOT DATE = 11/16/2017	DATE -	10/2017	REVISED -		SCALE:	SHEET NO. 3 OF 3 SHEETS	STA. TO STA.		ILLINOIS FED. A	D PROJECT		







BNSF RAILWAY		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		6790	08-00601-19-BR	KNOX	70	11
				CONTRACT	NO. 8	9699
	STA. 15+00.00 TO STA. 18+65.00		ILLINOIS FED. A	ID PROJECT		











DEPARTMENT OF TRANSPORTATION -------SCALE: N.T.S SHEET NO. 1 OF 2 SHEETS REVISED

Westmont, Illinois

PLOT DATE = 10/30/2017

DATE

10/201

1	DINƏF MAILWAT		RIE.					SHEETS	NU.	
ANS		6790	08-0060	1-19-BR		KNOX	70	16	ĺ	
	1115						CONTRAC	T NO. 8	39699	
	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT			
										2





ANS		6790	08-00601-19-BR		KNOX	70	17	
-110					CONTRACT	NO.	89699	
	STA.	TO STA.		ILLINOIS	FED. A	D PROJECT		





R BNSF RAILWAY Rol Plan		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		08-00601-19-BR	KNOX	70	19
			CONTRACT	NO. 8	9699
STA. 14+50.00 TO STA. 18+65.00		ILLINOIS FED. AI	D PROJECT		



D		DIN	TAKES (AURES)		
n	ADDRE35	F IN	TEMP EASEMENT		
	234 N. FARNHAM ST.	99-11-478-026	-		
	252 N. FARNHAM ST.	99-11-478-037	-		
	243 N. FARNHAM ST.	99-12-351-005	-		
	255 N. FARNHAM ST.	99-12-351-004	-		
	262 N. FARNHAM ST.	99-11-478-023	-		
	267 N. FARNHAM ST.	99-12-351-003	-		
TECK	2371 CHRISTOPHER DR.	99-11-478-010	0.030		
WARTZ	279 N. FARNHAM ST.	99-12-351-002	0.023		
MEAD	289 N. FARNHAM ST.	99-12-351-001	0.019		
	N/A	99-11-501-002	-		
	N/A	99-12-501-001	-		
	376 N. FARNHAM ST.	99-11-433-012	.017		
	390 N. FARNHAM ST.	99-11-433-011	-		
STODGEL	406 N. FARNHAM ST.	99-11-433-010	-		
STODGEL	420 N. FARNHAM ST.	99-11-433-009	-		

R BNSF RAILWAY		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		6790	08-00601-19-BR	KNOX	70	20
•		_		CONTRACT	NO. 8	9699
	STA. 10+19.75 TO STA. 18+65.00		ILLINOIS FED. AI	ID PROJECT		







GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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

The Contractor is advised that the existing PPC Deck 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 superstructure.

Minimum Construction Clearance Envelope of 21'-6" vertical above the plane of top-of-rail and 15'-0" horizontal at right angle from centerline of track shall be maintained at all times during Construction.

The proposed grade separation project shall not change the quantity and/or characteristics of the flow in the Railroad ditches and/or drainage structures.

The existing slopewall shall remain. Contractor shall repair at his own expense any damage to the slopewall due to construction activities.

STATION 14+12.58 BUILT 2018 BY CITY OF GALESBURG LOADING HL-93 STRUCTURE NO. 048-6027

NAME PLATE See Std. 515001

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



SIGNATURE : Smald Rell

DATE SIGNED : 10-25-2017 LIC. EXP. DATE : 11-30-2018

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design laoding shown on the plans. The design is an economical one for the style structure and complies with the requirements of the current "AASHTO LRFD Specifications".

ATION SKETCH	<u>GENERAL PLAN &</u> TARNHAM STREET (SECTION 08-00 KNOX COU STATION 14 STRUCTURE NO.	<u>ELEVAT</u> DVER BNS 601-19-B WTY +12.58 048-602	- <u>ION</u> <u>SF_RR</u> ' <u>R</u> ?7
FIEVATION	F.A. SECTION	COUNTY S	TOTAL SHEET HEETS NO.
48–6027	08-00601-19-BR	KNOX	70 23
ETS	ILLINOIS FED. A	L CONTRACT	NO. 89699
2.0	ILLINUIS FED. A	ID FROJECT	







PROFILE GRADE (Top of Rail, south tracks)

LOADING HL-93 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims

DESIGN STRESSES

FIELD UNITS f'c = 4,000 psi (superstructure) f'c = 3,500 psi (substructure) fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000psi f'ci = 5,000 psi $fpu = 270,000 \text{ psi} (l_2" \phi \text{ low lax. strands})$ $fbtb = 201,960 \text{ psi} (l_2" \phi \text{ low lax. strands})$

SEISMIC DATA

Seismic Performance Category (SPC) = A

DATE PLOTTED: 10/25/2017 TIME PLOTTED: 11/223 PM	DESIGNED - DDB CHECKED - KF DRAWN - DDB CHECKED - KF	REVISED - REVISED - REVISED - REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION
			<u>SEISMIC</u> Seismic Performance Cat
			tdtd = 201,960 psi

INDI	EX OF SHEE	<u>TS</u>	
1. 2.3.4. 5.6.7.8.9.10.11. 12.13.14.15.16.17.18. 19.0.21.22.	General Plan and General Data Top of Slab Elev Top of Slab Elev Superstructure F Superstructure D 21" x 36" PPC D 21" x 36" PPC D 21" x 36" PPC D Bridge Approach Bridge Approach Bridge Approach Bridge Fence Ra Parapet Railing, Expansion Joint Bearing Details South Abutment North Abutment North Abutment Pier 1 Pier 2	Elevation ations - South A ations - North A Plan ection betails Deck Beam Deck Beam Details Slab Layout Slab Details iling (Special) Details Details	pproach Slab pproach Slab
Sta. 9296+00.00 Elev. 768.90	Sta. 9296+49.60	Elev. 768.67	Sta. 9297+00.00 Elev. 768.47

PROFILE GRADE

(Top of Rail, north tracks)

TOTAL BILL OF MATERIAL

ITEM	LINIT			τοται
	0/11/	SUPER	SUB	TOTAL
Removal Of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		34.9	34.9
Protective Shield	Sq. Yd.	235		235
Structure Excavation	Cu. Yd.		11	11
Concrete Structures	Cu. Yd.		116.0	116.0
Concrete Superstructure	Cu. Yd.	169.6		169.6
Bridge Deck Grooving	Sq. Yd.	657		657
Protective Coat	Sq. Yd.	1,172		1,172
Concrete Superstructure (Approach Slab)	Cu. Yd.	110.3		110.3
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	6,204		6,204
Reinforcement Bars, Epoxy Coated	Pound	64, 140	14,760	78,900
Name Plates	Each	1		1
Preformed Joint Seal 1 3/4"	Foot	94		94
Concrete Sealer	Sq. Ft.		587	587
Epoxy Crack Injection	Foot		31	31
Concrete Wearing Surface, 5"	Sq. Yd.	491		491
Bridge Fence Railing (Special)	Foot	274		274
Parapet Railing, Special	Foot	274		274
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.		101	101
Steel Railing (Special)	Foot		32	32

* See Special Provisions

*

GENERAL DATA	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO 048-6027	6790	08-00601-19-BR	KNOX	70	24
31110CTOILE NO. 048-0027			CONTRACT	NO. 8	9699
SHEET NO. 2 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT		

WEST EDGE OF PAVEMENT

			THEORETICAL
LOCATION	STATION	OFFSET	GRADE
			ELEVATIONS
SOUTH END OF SOUTH APPR. PAV'T.	13+15.66	-16.00	793.39
A 1	12+25.66	16.00	702 70
AT	13+25.00	-70.00	/93./9
A2	13+35.66	-16.00	794.14
	10, 15,00	40.00	70.4.40
NORTH END OF SOUTH APPR. PAVT	13+45.66	-16.00	/94.43



LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
SOUTH END OF SOUTH APPR. PAV'T.	13+11.20	16.00	793.20
A1	13+21.20	16.00	793.62
A2	13+31.20	16.00	793.99
NORTH END OF SOUTH APPR. PAV'T	13+41.20	16.00	794.31

		DESIGNED -	DDB	REVISED -		TOP OF SLAB ELEVATIONS – SOUTH APPROACH SLAB	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEET
TERRA		CHECKED -	KF	REVISED -		STRUCTURE NO 049 6027	6790	08-00601-19-BR	KNOX	70	25
	DATE PLOTTED: 10/25/2017	DRAWN -	DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION	STRUCTURE NO. 040-0027			CONTRAC	T NO.	89699
	TIME PLOTTED: 1:17:24 PM	CHECKED -	KF	REVISED -		SHEET NO. 3 OF 22 SHEETS		ILLINOIS FED. AI	ID PROJECT		

PROFILE GRADE & CL RDWY

LOCATION

SOUTH END OF SOUTH

NORTH END OF SOUTH

I	STATION	OFFSET	THEORETICAL GRADE
			ELEVATIONS
HAPPR. PAV'T.	13+13.43	0.00	793.55
A1	13+23.43	0.00	793.95
A2	13+33.43	0.00	794.31
H APPR. PAV'T	13+43.43	0.00	794.62

EAST EDGE OF PAVEMENT

<u>PROFI</u>

LOCATION SOUTH END OF NORTH APP

NORTH END OF NORTH AP

WEST EDGE OF PAVEMENT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
SOUTH END OF NORTH APPR. PAV'T.	14+83.95	-16.00	793.41
A3	14+93.95	-16.00	792.96
A4	15+03.95	-16.00	792.47
NORTH END OF NORTH APPR. PAV'T	15+13.95	-16.00	791.97



E	4	S	7
			_

LOCATION

SOUTH END OF NORTH APP

NORTH END OF NORTH AP

		DESIGNED -	DDB	REVISED -		TOP OF SLAB ELEVATIONS – NORTH APPROACH SLAB	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
		CHECKED -	KF	REVISED -		STRUCTURE NO 049 6027	6790	08-00601-19-BR	KNOX	70	26
	DATE PLOTTED: 10/25/2017	DRAWN -	DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION	31NUCTURE NO. 040-0027			CONTRAC	T NO.	39699
ENGINEERING LID.	TIME PLOTTED: 1:17:26 PM	CHECKED -	KF	REVISED -		SHEET NO. 4 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT		

ILE	<u> </u>	RA	DE	&	CL	RD	W	<u>Y</u>

			THEORETICAL
	STATION	OFFSET	GRADE
			ELEVATIONS
PR. PAV'T.	14+81.72	0.00	793.75
A3	14+91.72	0.00	793.32
7.0			
A4	15+01.72	0.00	792.83
PR. PAV'T	15+11.72	0.00	792.33

TEDGE OF PAVEMENT

	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
PR. PAVT.	14+79.49	16.00	793.59
A3	14+89.49	16.00	793.17
A4	14+99.49	16.00	792.70
PPR. PAV'T	15+09.49	16.00	792.20





DATE PLOTTED: 10/25/2017	DESIGNED - CHECKED - DRAWN -	DDB KF DDB	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.04
TIME PLOTTED: 1:17:27 PM	CHECKED -	KF	REVISED -		SHEET NO. 5 OF 22 SHEE





Spec. Cost included with Concrete Superstructure.

Notes:



PARAPET JOINT DETAILS

DESCRIPTION Description Description Description Revised - County Total SHE Not Not No SHE No Superstructure Details STRUCTURE NO.048-6027											
IERCA CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION SUPERSTRUCTORE DETAILS INCLUENTED LOUTED			DESIGNED - DDB	REVISED -			F.A.U.	SECTION	COUNTY	TOTAL	SHEET
THOR FLOTTED: 10/25/2017 DRAWN - DDB REVISED - BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION STRUCTURE NO. 048-6027			CHECKED - KF	REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPENSINUGIUNE DEIAILS	6790	08-00601-19-BR	KNOX	70	29
		DATE PLOTTED: 10/25/2017	DRAWN - DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION	SIKUCIUKE NU. 048-6027			CONTRAC	T NO. 89	3699
ENGINEERING LID. TIME PLOTTED: 11728 PM CHECKED - KF REVISED -	ENGINEERING LID.	TIME PLOTTED: 1:17:28 PM	CHECKED – KF	REVISED -		SHEET NO. 7 OF 22 SHEETS	ILLINOIS FF		D. AID PROJECT		

The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a ⁵g'' backer rod. The ¹g'' Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std.

Bar	No.	Size	Length	Shape		
a(E)	139	#4	31′-8″			
b(E)	265	#5	29'-7"			
c(E)	278	#4	9′-5″	$\overline{}$		
d(E)	556	#5	4'-4"			
$d_I(E)$	556	#5	4′-0″			
d ₂ (E)	144	#4	4′-8″			
e(E)	216	#4	15′-0″			
Reinfor	rcement	Bars,	1 bs	20 310		
Ероху	Coated		200.	20,510		
Concrete			Cu Yds	1479		
Superstructure			00. 703.	147.5		
Concrete Wearing			Sa Yd	101		
Surface			59, 70,	491		
Bridge	Deck G	rooving	Sq. Yd.	459		
Protect	ive Coa	†	Sq. Yd.	882		

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.







Similar

about 🤅





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



(Showing U₂(E) bars)



REVISED -

TIME PLOTTED: 1:17:28 PM

CHECKED - KF

2-#4 S3(E) bars, Bottom

VIEW C-C



	(For	informai	tion only)	
Bar	No.	Size	Length	Shape
A(E)	14	#4	2'-7''	
A1(E)	28	#4	2'-10''	{
B(E)	4	#5	*45'-9''	_
$B_I(E)$	3	#4	*45′-9″	_
S(E)	64	#4	6′-5′′	
$S_I(E)$	8	#4	4'-11''	
$S_2(E)$	56	#4	5'-2'']
S3(E)	4	#4	4'-4''	
S4(E)	8	#4	3'-7''	
U(E)	8	#5	4'-0''	
$U_I(E)$	4	#4	5′-5″	\square
**U2(E)	30	#4	5'-7"	

Note: See sheet 9 of 22 for additional details and Bill of Material.

* Spans 1 and 3 45′-5" for Span 2

**Beam lines 1, 2, 14 and 15

21" X 36" PPC DECK BEAM STRUCTURE NO. 048–6027		J. SECTION COUNT		TOTAL SHEETS	SHEET NO.
		08-00601-19-BR	KNOX	70	30
			CONTRACT	NO. 8	9699
SHEET NO. 8 OF 22 SHEETS		ILLINOIS FED. AI	D PROJECT		



									/
		DESIGNED - DDB	REVISED -		21" x 36" PPC DECK REAM DETAILS	F.A.U. RTF	SECTION	COUNTY	TOTAL SHEET
RANS		CHECKED - KF	REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO 040 CO27	6790	08-00601-19-BR	KNOX	70 31
	DATE PLOTTED: 10/25/2017	DRAWN - DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION	SIRUCIURE NU. 040-0027			CONTRACT	T NO. 89699
EKING LID.	TIME PLOTTED: 1:17:29 PM	CHECKED – KF	REVISED -		SHEET NO. 9 OF 22 SHEETS		ILLINOIS FED. AI	D PROJECT	



CH SLAB	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
048–6027	6790 08-00601-19-BR		KNOX	70	32
	CONTRACT NO. 8969				
EETS		ILLINOIS FED. AI	D PROJECT		



CHECKED - KF

REVISED -

DGE APPROACH SLAB LAYOUT	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 048–6027		08-00601-19-BR	KNOX	70	33
			CONTRACT	NO. 8	9699
SHEET NO. 11 OF 22 SHEETS		ILLINOIS FED. AI	D PROJECT		



Parapet, sidewalk, and curb concrete shall be paid for as Concrete Superstructure. Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures.



Bar	No.	Size	Length	Shape	
a 10 (E)	92	#5	33′-0″		
а _{II} (Е)	120	#8	33′-0″		
a 12 (E)	76	#5	11'-0"		
a ₁₃ (E)	76	#6	11'-0"		
a ₁₄ (E)	104	#5	6′-5″		
Ь 10 (E)	100	#5	29'-8''		
b ₁₁ (Ε)	160	29'-8''			
Ь ₁₂ (Е)	64	11'-5"			
Ь ₁₃ (Е)	64	#6	11'-5"		
Ь ₁₄ (Е)	8	#5	29′-8″		
d 10 (E)	208	3′-7"			
d _{II} (E)	248	2'-7"			
e 10 (E)	96	#4	7′-9″		
t 10 (E)	136	#4	9'-8"		
un (E)	40	#5	14'-4"		
-10		-			
win (F)	80	#5	33'-0"		
		_	00 0		
Concrete	Superstri	icture	Cu Yd	21.7	
Concrete	Superstri	icture	00. /0.		
Concrete Superstructure			Cu. Yd.	110.3	
Concrete	Structure	s	Cu Yd	23.6	
Reinforce	ment Rar	с с	00.70.	2010	
EDAXY CO	nted	ς,	Pound	43,830	
Bridge De	ck Groovi	na	Sa Yd	198	
Protective	Coat	iig	Sq. 70. Sa Yd	290	
0/00///0	0001		JY. 10.	200	

TWO APPROACHES BILL OF MATERIAL

SLAB DETAILS	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
048–6027	6790	08-00601-19-BR	KNOX	70	34
	CONTRACT NO. 8969				
ETS		ILLINOIS FED. AI	D PROJECT		



DESIGNED - DDB REVISED -BRIDGE FENCE RAILING TERRA **ILLINOIS DEPARTMENT OF TRANSPORTATION** REVISED -CHECKED – KF STRUCTURE NO. 048-DATE PLOTTED: 10/25/2017 DRAWN DDB REVISED BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION -ENGINEERING LTD. SHEET NO. 13 OF 22 SHE TIME PLOTTED: 1:17:31 PM CHECKED - KE REVISED -

Paint System per the Special Provision for Handrails and Railing and

on the bridge. Bevel the base plate and angle the horizontal rolls as necessary to follow the vertical curve across the bridge.





Item	Unit	Quantity
Bridge Fence Railing (Special)	Foot	274

(SPECIAL)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
-6027		08-00601-19-BR	KNOX	70	35		
	CONTRACT NO. 89699						
ETS	ILLINOIS FED. AID PROJECT						



Item	Unit	Quantity
Parapet Railing, Special	Foot	274

PECIAL	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
-6027	6790	08-00601-19-BR	KNOX	70	36	
	CONTRACT NO. 896					
EETS	ILLINOIS FED. AID PROJECT					





END TREATMENT OF STRIP SEAL AT SIDEWALK

		DESIGNED - DDB	REVISED -		EXPANSION JOINT DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
TERRA		CHECKED - KF	REVISED -		STRUCTURE NO. 048-6027	6790	08-00601-19-BR	KNOX	70 37
	DATE PLOTTED: 10/25/2017	DRAWN - DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION		_		CONTRAC	T NO. 89699
	TIME PLOTTED: 1:17:31 PM	CHECKED – KF	REVISED -		SHEET NO. 15 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT	



Notes:

Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams. Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

The side retainers shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM 385. Anchor bolts and plate washers shall be galvanized according to AASHTO M 232.

After the concrete wearing surface has been poured and cured, the steel wedges shall be removed.

RETAINER ANGLE AT ABUTMENT EXPANSION JOINTS

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Preformed Joint Strip Seal	Foot	94



I solid shall be thied with holt shall god Included in cost of PPC Deck Beams. 1" dimension may vary to accommodate tolerance in beam length.

DESIGNED -	DDB	REVISED -		BEARING DETAILS	F.A.U.	SECTION	COUNTY	TOTAL SHEET
CHECKED -	KF	REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION		6790	08-00601-19-BR	KNOX	70 38
TTED: 10/25/2017 DRAWN -	DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION	3110CTONE NO. 040-0027			CONTRACT	T NO. 89699
TTED: 1:17:32 PM CHECKED -	KF	REVISED -		SHEET NO. 16 OF 22 SHEETS		ILLINOIS FED. AID	PROJECT	
Т	DESIGNED - CHECKED - TED: 10/25/2017 DRAWN TED: 117:32 PM CHECKED	DESIGNED - DDB CHECKED - KF TED: 10/25/2017 DRAWN - DDB TED: 1:17:32 PM CHECKED - KF	DESIGNED - DDB REVISED - CHECKED - KF REVISED - TEDr 10/25/2017 DRAWN - DDB REVISED - TEDr 11/132 PM CHECKED - KF REVISED -	DESIGNED - DDB REVISED - CHECKED - KF REVISED - TEDr 10/25/2017 DRAWN - DDB REVISED - TEDr 10/25/2017 DRAWN - DDB REVISED - TEDr 11/132 PM CHECKED - KF REVISED -	DESIGNED ODB REVISED - BEARING DETAILS CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION BEARING DETAILS TEDR 10/25/2017 DRAWN - DDB REVISED - BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION STRUCTURE NO. 048–6027 TEDR 11/132 PM CHECKED - KF REVISED -	DESIGNED ODB REVISED - Description BEARING DETAILS Revised Revised <td>DESIGNED ODB REVISED - Description FAU Section L CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION BEARING DETAILS FAU Section TED: 10/25/2017 DRAWN - DDB REVISED - BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION SHEET NO. 16 OF 22 SHEETS 6790 08-00601-19-BR TED: 11/132 PM CHECKED - KF REVISED - - -</td> <td>DESIGNED ODB REVISED - REVISED - REVISED - REVISED - COUNTY L CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION BBASF MP 176.1 ON THE CHILLICOTHE SUBDIVISION 670 08-00601-19-BR KN0X TEDE 10/25/2017 DRAWN - DDB REVISED - 0B BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION SHEET N0.16 OF 22 SHEETS CONTRAC CONTRAC TEDE 10/13/12 PM CHECKED - KF REVISED ILLINOIS FED. AID PROJECT</td>	DESIGNED ODB REVISED - Description FAU Section L CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION BEARING DETAILS FAU Section TED: 10/25/2017 DRAWN - DDB REVISED - BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION SHEET NO. 16 OF 22 SHEETS 6790 08-00601-19-BR TED: 11/132 PM CHECKED - KF REVISED - - -	DESIGNED ODB REVISED - REVISED - REVISED - REVISED - COUNTY L CHECKED - KF REVISED - ILLINOIS DEPARTMENT OF TRANSPORTATION BBASF MP 176.1 ON THE CHILLICOTHE SUBDIVISION 670 08-00601-19-BR KN0X TEDE 10/25/2017 DRAWN - DDB REVISED - 0B BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION SHEET N0.16 OF 22 SHEETS CONTRAC CONTRAC TEDE 10/13/12 PM CHECKED - KF REVISED ILLINOIS FED. AID PROJECT



NT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
-6027	6790	08-00601-19-BR	KNOX	70	39	
0017	CONTRACT NO. 89699					
EETS	ILLINOIS FED. AID PROJECT					

Notes:

Epoxy grout s(E) and v(E) bars into 9" minimum drilled holes according to Section 584 of the Standard Specifications. Holes shall be approximately 4" from edge of existing member to avoid existing longitudinal reinforcement. Cost included in Reinforcement Bars, Epoxy Coated.

At areas of Concrete Removal, the existing reinforcement extending into the areas of new construction shall be cleaned, straightened and incorporated into the new construction. Included in cost of Concrete Removal.

Concrete Sealer shall be applied to the top of the new abutment cap and to the new concrete portion of the front face of the concrete cap.





dimensions at rt. angles

SECTION B-B







		DESIGNED - DDB	REVISED -		SOUTH ABUTMENT DETAILS	F.A.U. RTE	SECTION	COUNTY	TOTAL	SHEET
		CHECKED – KF	REVISED -	ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 048-6027	6790	08-00601-19-BR	KNOX	70	40
ENGINEERING LTD.	DATE PLOTTED: 10/25/2017	DRAWN - DDB	REVISED -	BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION				CONTRAC	T NO.	89699
	TIME PLUTTED: 11/133 PM	CHECKED - Kr	REVISED -		SHEET NO. 16 OF 22 SHEETS		ILLINOIS FED. AI	ID PROJECT		

Bar	No.	Size	Length	Shape
h(E)	20	#5	19′-0″	
p(E)	12	#6	46′-3″	
(5)				
s(E)	94	#5	6'-8"	
	6	#6		
U(E)	6	#6	9'-11"	
$u_I(E)$	12	#4	4'-8"	
(5)			E / 11	
V(E)	68	#5	5-1	
V100(E)	47	#5	4'-5"	I
Structu	re Exco	ivation	Cu. Yd.	7
Concrei	te Struc	tures	Cu. Yd.	22.1
Reinfor	cement	Bars,	Pound	2 590
Ероху	Coated		i ouna	2,550
Concret	'e Remo	val	Cu. Yd.	6.0
Concrete Sealer			Sq. Ft.	313
Steel R	ailing (S	Special)	Foot	14

BILL OF MATERIAL



NT	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-6027	6790	08-00601-19-BR	KNOX	70	41
-0027			CONTRACT	NO. 8	9699
IEETS		ILLINOIS FED.	AID PROJECT		

Notes:

Epoxy grout s (E) and v (E) bars into 9" minimum drilled holes according to Section 584 of the Standard Specifications. Holes shall be approximately 4" from edge of existing member to avoid existing longitudinal reinforcement. Cost included in Reinforcement Bars, Epoxy Coated.

At areas of Concrete Removal, the existing reinforcement extending into the areas of new construction shall be cleaned, straightened and incorporated into the new construction. Included in cost of Concrete Removal.

Concrete Sealer shall be applied to the top of the new abutment cap and to the new concrete portion of the front face of the concrete cap.



SECTION B-B



BAR VIOI (E)





<u>BAR u1(E)</u>

2'-0"

DESIGNED - DDB REVISED -NORTH ABUTMENT DI TERRA **ILLINOIS DEPARTMENT OF TRANSPORTATION** CHECKED – KF REVISED -STRUCTURE NO. 048-BNSF MP 176.1 ON THE CHILLICOTHE SUBDIVISION DATE PLOTTED: 10/25/2017 DRAWN - DDB REVISED ENGINEERING LTD. TIME PLOTTED: 1:17:33 PM CHECKED - KF REVISED -SHEET NO. 20 OF 22 SHE



Bar	No.	Size	Length	Shape
h ₁ (E)	16	#5	13′-5″	
p(E)	12	#6	46′-3″	
s ₁ (E)	94	#5	5′-10″	
u(E)	6	#6	9′-11″	
u (E)	12	#4	4'-8"	
$v_I(E)$	44	#5	2′-10″	
v ₆ (E)	22	#5	3'-1"	
v ₁₀₁ (E)	47	#5	3′-7″	
Structu	re Exco	ivation	Cu. Yd.	4
Concret	te Struc	tures	Cu. Yd.	13.7
Reinfor	cement	Bars,	Pound	2130
Ероху	Coated		1 Uunu	2150
Concret	'e Remo	val	Sq. Yd.	6.0
Concret	'e Seale	r	Sq. Ft.	274
Steel R	ailing (S	Special)	Foot	18
Structu	ıral Rep	air of		
Concre	te (Dept	'n	Sa Et	28
equal t	o or les	55	J	
than 5	inches)			

BILL OF MATERIAL

	,0-,1
6'-2"	

ETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
-6027	6790	08-00601-19-BR	KNOX	70	42		
	CONTRACT NO. 896						
EETS	ILLINOIS FED. AID PROJECT						



Bar	No.	Size	Length	Shape
h_(E)	10	#5	46'-2"	
h 3(E)	9	#4	8'-8"	
p1(E)	14	#8	46'-2"	
(5)	10.1		17/ 11/	
$S_2(E)$	124	#5	13'-11"	
S3(E)	56	#4	10'-5"	
<i>S</i> ₄(<i>E</i>)	24	#4	3'-0"	
11.(E)	14	#6	0/ 1//	
UNL)	17	#0	0 - 1	
v2(E)	16	#7	5'-0"	
- V 3(E)	16	#5	17'-6"	
Structu	ıral Rep	air of		
Concre	, te (Dept	ħ		11
equal t	o or les	55	Sq. Ft.	71
than 5	inches)			
Concre	te Struc	ctures	Cu. Yd.	29.7
Reinfor	rcement	Bars,	Pound	5 120
Ероху	Coated		1 00/10	5,120
Concre	te Remo	oval	Cu. Yd.	11.5
Epoxy Injecti	Crack on		Foot	4

		2'-2"
		<u>BAR s2(E)</u>
_		3'-0"
_	2'-1"	
		BAR u(E)

	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-6027	6790	08-00601-19-BR	KNOX	70	43
	CONTRACT NO. 896				
EETS		ILLINOIS FED. AI	D PROJECT		



Bar	No.	Size	Length	Shape
h ₂ (Ε)	10	#5	46′-2″	
(5)			10/ 0#	
<i>p</i> 1(E)	14	#8	46'-2"	
s3(E)	56	#4	10′-5″	
s ₅ (E)	124	#5	13'-3"	Ľ
(L) (E)	14	#6	0/ 1//	
UTL)	17	#0	0 - 1	
V4(E)	16	#7	4'-8"	
ν ₅ (Ε)	16	#5	17′-2"	
Structu Concre equal t than 5	ıral Rep te (Depi o or les inches)	pair of th 55	Sq. Ft.	32
Concre	te Struc	ctures	Cu. Yd.	26.9
Reinfoi Epoxv	rcement Coated	Bars,	Pound	4,920
Concre	te Rem	oval	Cu. Yd.	11.4
Ероху	Crack I	njection	Foot	27

	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-6027	6790	08-00601-19-BR	KNOX	70	44
	CONTRACT NO. 896				
EETS	ILLINOIS FED. AID PROJECT				





10/23/2017

End Lower Wall Sta. 11+80.00 Elev. 787.17

Elev. 786.84

5'-0'' Typ.

Vincent P. Tabor Licensed Structural Engineer State of Illinois No. 081-007047 Expires 11/30/2018

Date

INDEX OF SHEETS

01. General Plan and Elevation - S.W. Ret. Walk 02. General Plan and Elevation - S.E. Ret. Wall General Notes 03. 04. Typical Sections 05. Concrete Removal Vertical Extensions 06. 07. S.W. Upper Wall - New Segment 08. S.W. Lower Wall - New Segment S.E. Upper Wall - New Segment 09. 10. S.W. Retaining Wall - Rail Layout 11. S.E. Retaining Wall - Rail Layout 12. N.W. Retaining Wall - Rail Layout 13. Steel Railing (Special) 14. Pipe Handrail, Special 15. Boring Logs 16. Boring Logs

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

<u>EXISTING UNITS</u>

- f'c = 3,000 psi
- fy = 40,000 psi (Reinforcement) FIELD UNITS
- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)

Range 1E, 4th PM



GENERAL PLAN AND ELEVATION SOUTHWEST RETAINING WALL N. FARNHAM STREET OVER BNSF R.R SECTION 08-00601-19-BR KNOX COUNTY STA. 11+50.00 to STA. 13+50.00 NEAR STRUCTURE NO. 048-6027

OUTHWEST RETAINING WALL	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
/////	6790	08-00601-19-BR	KNOX	70	45
	CONTRACT NO. 89699				
EETS		ILLINOIS FED. A	ID PROJECT		



** See S.N. 048-6027 plans for wingwall extension details.

*** Steel Railing (Special) **** Pipe Handrail, Special

LEGEND



Lightweight Cellular Concrete Fill

Removal of Unsuitable Soils

GENERAL PLAN AND ELEVATION SOUTHEAST RETAINING WALL N. FARNHAM STREET OVER BNSF R.R SECTION 08-00601-19-BR KNOX COUNTY STA. 11+50.00 to STA. 13+50.00 NEAR STRUCTURE NO. 048-6027

SOUTHEAST RETAINING WALL		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
//// 8	6790	08-00601-19-BR	KNOX	70	46	
	CONTRACT NO. 89699					
IEETS		ILLINOIS FED. A	ID PROJECT			

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

All exposed vertical edges of vertical concrete wall extensions shall be chamfered to match the existing wall below. All other exposed concrete edges shall have a $\frac{3}{2}$ " x 45° chamfer. Chamfer on vertical edges shall be continued a minimum of one foot below finished around level.

00

Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

The location of construction and expansion joints through vertical concrete wall extensions shall match those of the existing retaining wall below the extensions.

No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by the Engineer

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

It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

The Contractor shall use care when excavating around existing foundations. Any damage to the existing structure and/or supporting foundation shall be repaired or replaced at the Contractor's expense at no additional cost to the Owner.

At locations where an Upper Wall and a Lower Wall are 10 ft or less from each other, no excavation shall be made in front of either wall until excavation behind the nearby Upper Wall has been completed.

At locations where an Upper Wall and a Lower Wall are more than 10 ft from each other, no excavation shall be made in front of a Lower Wall until excavation behind the same wall has been completed. Any excavations made in front of a Lower Wall shall be backfilled prior to placement of fill behind the same wall.

At locations that require excavation between adjacent Upper and Lower Walls, drainage materials and Lightweight Cellular Concrete Fill required between the adjacent walls shall be installed prior to placement of any materials behind the adjacent Upper Wall.

Lightweight Cellular Concrete Fill shall be Class I.

The location of the Back Face of Lightweight Fill shall be determined by extension of a 1V:1H slope from the Working Point identified at the base of the footing.

Geocomposite Wall Drain and Porous Granular Embankment shall, at a minimum. extend up to the top surface of the Lightweight Cellular Concrete Fill.

During placement and prior to intitial set, the Contractor shall provide measures to ensure the separation of materials between the Lightweight Cellular Concrete Fill from the Porous Granular Embankment and the Pipe Underdrains for Structures.

For all existing retaining walls within 250 ft and located northwest, southwest, and southeast of S.N. 048-6027: Where excavation behind the existing retaining wall is not required for installation of lightweight fill and the replacement of the existing underdrain, the existing weep holes shall be cleaned from the front face of the wall of all debris and flushed with water at a pressure less than 50 psi. Where replacement underdrains are installed existing weep holes shall be cleaned from the excavated face of the wall of all debris and flushed with water at a pressure less than 50 psi.

See Proposed ADA Sidewalk Ramp Details for additional information relative to sidewalk and ramps in vicinity of retaining walls.

Porous Granular Embankment shall be gradation CA 7 or CA 11. CA 6 material shall not be used.

The elevations shown in the existing structure plans were adjusted by 0.17' to coincide with the current survey datum.



Southwest Wall Sta. 13+06.98 to Sta. 13+46.48: Elev. A = 785.98; Elev. B = 782.33; Southeast Wall Sta. 13+19.30 to Sta. 13+38.27; Elev. A = 787.24; Elev. B = 783.83;

		DESIGNED -	VPT	REVISED -		GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEET
LIN ENGINEERING, LTD.		CHECKED -	MTH	REVISED -	STATE OF ILLINOIS	BETAINING WALLS	6790	08-00601-19-BR	KNOX	70	47
Springfield, Illinois	PLOT TIME = 5:07:57 PM	DRAWN -	CGY	REVISED -	DEPARTMENT OF TRANSPORTATION	RETAINING WALLS			CONTRAC	T NO.	89699
	PLOT DATE = 10/27/2017	CHECKED -	MTH	REVISED -		SHEET 3 OF 16 SHEETS		ILLINOIS FED. A	ID PROJECT		

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	72
Concrete Removal	Cu. Yd.	6.1
Structure Excavation	Cu. Yd.	600
Concrete Structures	Cu. Yd.	67.1
Reinforcement Bars	Pound	5040
Reinforcement Bars, Epoxy Coated	Pound	380
Pipe Handrail, Special	Foot	202.0
Lightweight Cellular Concrete Fill	Cu. Yd.	400
Steel Railing (Special)	Foot	529.0
Pipe Underdrains for Structures 4"	Foot	384
Removal and Disposal of Unsuitable Material	Cu. Yd.	47
Structural Repair of Concrete		
(Depth Equal to or less than 5 inches)	Sq. Ft.	1.0
Geocomposite Wall Drain	Sq. Yd.	209

TYPICAL SECTION



TIONS	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	6790	08-00601-19-BR	KNOX	70	48	
VALLS	CONTRACT NO. 89699					
HEETS	ILLINOIS FED. AID PROJECT					



REVISED -**DEPARTMENT OF TRANSPORTATION** REVISED -

Springfield, Illinois

PLOT DATE = 10/27/2017

CHECKED - MTH

SHEET 5 OF 16 SH

MOVAL		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NALLS	6790	08-00601-19-BR	KNOX	70	49
VALLO			CONTRACT	NO. 8	9699
HEETS		ILLINOIS FED. AI	D PROJECT		





	<u>BILL</u>	OF MA	ATERI	<u>AL</u>
Par	No	Cizo	Longth	Shano
Dai	NO.	5120	Length	эпаре
h	16	#4	24'-4"	
h1	14	#4	5'-2"	
h2	14	#4	19'-6"	
h3	12	#4	5'-6"	
h4	4	#4	9'-0''	
n(E)	50	#4	4'-6"	J
t	100	#4	5'-1"	
V	26	#4	13'-4"	
v 1	20	#4	11'-0"	
v2	8	#4	4'-8"	
W	12	#4	24'-7"	
w 1	12	#4	19'-6"	

See Sheet 8 of 16 for field cutting diagrams and joint details.

– NEW SEGMENT	F.A.U. RTE.	SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.
ΝΔΙΙς	6790	08-0060	01-19-BR		KNOX	70	51
					CONTRACT	'NO.8	9699
HEETS			ILLINOIS	FED. AI	D PROJECT		



	С
2″	13'-4"
2″	11'-0"
5″	7'-8"
5″	9'-7"
2"	11'-8"
3″	12'-11"

Bar	No.	Size	Length	Shape
h10	10	#4	25'-0"	
h11	2	#4	9'-0"	
n10(E)	26	#4	4'-6"	
t10	52	#4	4'-5"	
v10	26	#4	7'-8"	
w10	12	#4	25'-0"	
Concre	te Stru	ictures	Cu. Yd.	10.6
Reinfo	rcemen	t Bars	Pound	670
Reinfo	rcemen	t Bars,		
Epoxy	Coated		Pound	80

BILL OF MATERIAL





– NEW SEGMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NALLS	6790	08-00601-19-BR	KNOX	70	52
			CONTRACT	NO. 8	9699
HEETS		ILLINOIS FED. AI	D PROJECT		



	<u>BILL</u>	OF MA	ATERI.	<u>AL</u>
Bar	No.	Size	Length	Shape
h20	12	#4	17'-0"	
h21	26	#4	5'-2"	_
h22	18	#4	9'-9"	
h23	16	#4	12'-4"	
n20(E)	44	#4	4'-6"	
+20	00	# 1	5' 2"	
120	00	#4	5-2	
v20	18	#4	9'-7"	
v21	12	#4	11'-8"	
v22	14	#4	12'-11"	
w20	12	#4	17'-2"	
w21	12	#4	9'-10''	
w22	12	#4	12'-0"	
w23	24	#4	5'-2"	_
Concre	te Stru	ctures	Cu. Yd.	21.0
Reinfo	rcemen	t Bars	Pound	1510
Reinfo	rcemen	t Bars,		
Ероху	Coated		Pound	140

– Sta. 13+19.30 Elev. 794.32



BARS h21, w23

See Sheet 8 of 16 for field cutting diagrams and joint details.

BAR n20(E)

VALLS	6190	08-0060	JI-19-DR		CONTRACT	NO. 8	9699
IEETS				FED AT			



discretion of the rail fabricator within the limits specified on the

The rail fabricator shall be responsible for field verification of all horizontal and vertical retaining wall geometry and joints

Where proposed rail will be replacing an existing rail that is mounted to an existing concrete surface, the existing rail and its connection shall be removed flush to the top of the existing concrete surface. Any holes in existing concrete surfaces left open by the removal of the existing rail shall be filled with a nonshrink grout meeting the requirements of Section 1024.02 of the Standard Specifications. Where proposed rail will be replacing an existing rail that is supported by a post foundation, the existing rail and post foundation shall be removed to a depth satisfying the requirements of the Standard Specifications. Any damage caused by removal of existing rail and post foundations to items that are to remain in place shall be repaired at the expense of the Contractor to the satisfaction of the Engineer. Cost of removal of existing rail and post foundations, and filling of holes with nonshrink grout shall be included in the cost of the type of

Steel Railing (Special) Pipe Handrail, Special

ALL – RAIL LAYOUT	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1115	6790	08-00601-19-BR	KNOX	70	54
			CONTRACT	NO. 8	9699
HEETS		ILLINOIS FED. A	ID PROJECT		





LEGEND

----- Steel Railing (Special) Pipe Handrail, Special

ALL – RAIL LAYOUT	F.A.U. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
MALLS	6790	08-00601-19-BR		KNOX	70	56
TALLS				CONTRACT	NO. 8	9699
HEETS		ILLINOIS	FED. AI	D PROJECT		



PLOT DATE = 10/27/2017

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CHECKED - MTH

All steel rail elements shall be galvanized according to

ILLINOIS FED. AID PROJECT

SHEET 13 OF 16 SHEETS



Notes:

- Stairways shall have continuous handrails both sides of all stairs. The inside handrail on switchback or dogleg stairs shall always be continuous.
- Gripping surfaces shall be uninterrupted by posts, other construction elements, or obstructions.
- Ends of handrail shall be either rounded or returned smoothly to floor, wall, or post.
- Hand & safety rails shall not rotate within their fittings. Expansion joints in handrail shall match location of expansion joints of any concrete structure to which it is attached.
- The rail fabricator shall be responsible for field verification
- of all horizontal and vertical retaining wall geometry and joints prior to fabrication of the prescribed rails.
- Cost of post foundations shall be included in the cost of Pipe Handrail. Special.
- Costs of coring and epoxy grout for stairway sidewall attachment shall be included in the cost of Pipe Handrail, Special.

Core $2V_2'' \odot Max$. hole, 9" deep in top of stairway sidewall. Minimum core diameter shall allow adequate distribution of epoxy around embedded post in accordance with the epoxy manufacturer's specifications. Set post into cored hole and epoxy grout in place according to Article 584 of the Standard Specifications.



(7'-0"	Maximum	Post	Spacing)
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LIN ENGINEERING,LTD. Consulting Engineers	PLOT TIME = 5:08:26 PM	DESIGNED - VPT CHECKED - MTH DRAWN - CGY	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIPE HANDRAIL, SPECI RETAINING WALLS
Springfield, Illinois	PLOT DATE = 10/27/2017	CHECKED – MTH	REVISED -		SHEET 14 OF 16 SHEETS

All steel rail elements shall be galvanized according to the Special Provision for Handrails and Railing and Article 509.05 of the Standard Specifications.

All post, railing, splices, anchor devices, and bent plates shall be painted black using the Organic Zinc Rich Primer / Epoxy / Urethane Paint System per the Special Provision for Handrails and Railing and Article 509.05 of the Standard Specifications.

Posts and vertical bars shall be fabricated to be plumb when installed on the retaining wall. Bevel the base plate and angle the horizontal rails as necessary to follow the vertical profile of the top of retaining wall.

HEETS

CONTRACT NO. 89699

ILLINOIS FED. AID PROJECT

	DE	SCR	IPTION	J	F	arnham Street Retaining Walls LOGGED BY Fehl
ECTION 08-00061-019-	BR	L	OCAT		Gales	burg, SEC. 12, TWP. T11N, RNG. R1E, 4 th PM ,
OUNTY Knox D	RILLING	ME	THOD		Latitu Hol	Ide , Longitude Iow Stem Augers HAMMER TYPE D-50 Automatic
TRUCT. NO. 048-6027 Station 14+12.88 ORING NO. B-01	_	D E P T	B L O W	U C S	M O I S	Surface Water Elev. ft D B U M Stream Bed Elev. ft E L C O Groundwater Elev.: T W S S
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		-	2 3	0.6 B	27	DD = 93 PCF
		_				
		_	2	1.0	26	
	769 20	_	3	В		
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Whitney &	Associates								Date		0/17	
OUTE	DI	ESCR	IPTION	۱ <u> </u>	F	arnham Street Retaining Walls	LC	OGGE	DBY	Fe	ehl	
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Division of Highways Whitney & Associates		-		-	Date6/19/-
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STRUCT. NO. 048-6027 Station 14+12.88 BORING NO. B-03 Station 11+93 Offset 28.0 ft Left Ground Surface Elay 787.60	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev ft Stream Bed Elev ft Groundwater Elev.: First Encounter None ft Upon Completion None ft
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