April 23, 2013

SUBJECT: FAP 361 (IL 25)

Project HPP-1527(037) Section 06-00214-18-RP

Kane County

Contract No. 63598

Item 126

April 26, 2013 Letting

Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

- 1. Revised pages 4 9 and 15 20 of the Schedule of Prices
- 2. Revised page 3 of the Table of Contents.
- 3. Revised pages 2 and 125 of the Special Provisions.
- 4. Added pages 125A and 295A 295F to the Special Provisions.
- 5. Revised sheets 3, 5, 7, 14, 16, 22, 34, 35, 37, 38, 41, 58, 203, 212, 228, 240, 250, 404 422 of the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

John Baranzelli, P.E.

Acting Engineer of Design and Environment

By: Ted B. Walschleger, P.E.

Tete alse by P.E.

Engineer of Project Management

ECMSOO2 DTGECM03 ECMRO03 PAGE RUN DATE - 04/19/13 RUN TIME - 183110 ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 63598

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ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF PRICES

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ITEM	0002300	0013796	0013798	0018500	0018905	0019600	0022800	0023202	0028450	0030850	0033056	0033058	046304	0048665	005

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MEASURE	SQ YD	NOT	CU YD	Т.	\ \ \ \	SU	EA EA	FOOT	FOOT	10	10	00	LINO	LINN	F00T
PAY ITEM DESCRIPTION	TEMP PAVEMENT	TEMP PAVEMT VAR DEPTH	SUB-BALLAST	TEMP SOIL RETEN SYSTM	SLEEPER SLAB	TEMP SUPPORT SYSTEM	TEMP TR SIGNAL TIMING	TRACK REMOVAL	TRACK WORK	TRAINEES	TRAINEES TPG	WD POST & RAIL FENCE	TREE REMOV 6-15	TREE REMOV OVER 15	FENCE
ITEM	0062456	0062458	006900	0073002	0073346	0073500	0073510	0076100	0029200	0029200	0076604	00677900	0100110	100210	0101000

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5100630 ER	ION CONTR BLANKET	SQ	14,398.000)		1 1 1 1 1 1
5200200 su	PLE WATERING	TINO	00	- II -	

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UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CTS	- II - I	- 1	- 11 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11	— II —	- 11 -	11	. 1	II		- 11 -	 	- 11
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ITEM	8000250	8000305	8000400	8000500	8000510	8001100	8100105	8100107	8200200	0300112	01800	5501316	0201000	0600100	600300

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ITEM	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CENTS
0600895	CONSTRUC TEST STRIP	EACH	5.000	II III
0601005	HMA REPL OVER PATCH	NOT	3.000 >	ı
0603335	HMA SC "D" N50	TON	342.000)	- II -
0701901	HMA PAVT FD 11	SQ YD	2,606.000)	11 -
0701931	HMA PAVT FD 12 1/2	SQ YD	02.0	- II -
501	PCC PVT 10 JOINTED	SQ YD	30,088.000	— II — I
2001300	PROTECTIVE COAT		3,258.00	
2400800	DETECTABLE WARNINGS	H !	6	1
4000100	PAVEMENT REM	SQ YD	29,967.000	- II -
4000200	DRIVE PAVEMENT REM	\rangle	8.0	- II - I
4000200	COMB CURB GUTTER REM	_	1.0	1 1 1
400310	MEDIAN REMOVAL	_ 1	0 1	
4004250	PAVED SHLD REMOVAL	SQ YD	_	
0	CL D PATCH T3 9	SQ YD	21.000)	
4213100	PAVEMENT FABRIC	SQ YD	476.000	- 11

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40 I	P ATTN REL NRD TL2		1.000		
S 00	PANEL T1	S	00		
10 R	MOV SIGN PANEL T1	SQ	49.000		
1 0	LOC SIGN PANEL T1		05.000	I	
720	LOC SIGN PANEL T2	0	000.		
100	LES STL SIN SUPPORT	F003	98.000		
100	TAL POST TY A	FOOT	751.000 X		
200	TAL POST TY B		61.000		: I
100	OD SIN SUPPORT	Н	56.000		
100	SE TEL STL SIN SUPP		3.000		
100 R	GR MT SIN SUPPORT		57.000		
100 T	PL PVT MK LTR & SYM	ÖS	73.00		
L 0	PL PVT MK LINE 4		00		
T 00	L PVT MK LINE 6	F00T	9.00	- 11 -	

* Revised 4122113

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NUMBER PAY ITEM DESCRIPTION	MEASURE	QUANTITY	DOLLARS CENTS	DOLLARS CT
O THPL PVT MK LINE 12	FOOT	158.000 X	- II	
00 POLYUREA PM T1 LTR-SY		,231.000		
10 POLYUREA PM T1 LN		2,085.00		
30 POLYUREA PM T1 LN 6		5,390.000	 	
40 POLYUREA PM T1 LN 8		13.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
250 POLYUREA PM T1 LN 12	F00	31.000	- 11 -	
270 POLYUREA PM T1 LN 24	FOOT	567.0		
O RAISED REFL PAVT MKR	EACH	194.000		
105 RAISED REF PVT MKR BR	EACH	6.000		
200 TEMP RAIS REF PVT MKR		000		
410 GUARDRAIL MKR TYPE A	EACH	17.000		
O BAR WALL MKR TYPE C		6.000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
000 TERMINAL MARKER - DA	EA	000.9	1	
100 PAVT MARKING REMOVAL	ÖS .	000.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RAISED REF PVT MK REM	EACH	00	11	

* Revised 4122/13

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1028210 UNDRGRD C GALVS 2 1/2 FOOT 2,762.000 X	I TEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS CE	NTS DOLLARS CTS
28200 UNDRGRD C GALVS 2 1/2 FOOT 1,852.000 X = 28220 UNDRGRD C GALVS 2 1/2 FOOT 1,852.000 X = 28220 UNDRGRD C GALVS 4 FOOT 1,813.000 X = 28240 UNDRGRD C GALVS 4 FOOT 1,313.000 X = 28240 UNDRGRD C GALVS 4 FOOT 1,313.000 X = 28240 UNDRGRD C GALVS 4 FOOT 1,313.000 X = 28240 UNDRGRD C GALVS 4 FOOT 2,000 X = 28240 UNDRGRD C GALVS 4 FOOT 4,380.000 X = 28240 UNDRGRD C GALVS 4 FOOT 4,380.000 X = 28240 UNDRGRD C GALVS 4 FOOT 4,380.000 X = 28240 UNDRGRD C GALVS 4 FOOT 2,215.000 X = 28240 UNDRGRD C GALVS 4 FOOT 2,215.000 X = 28240 UNDRGRD C GALVS 4 FOOT 2,215.000 X = 28240 UNDRGRD C GALVS 4 FOOT 2,215.000 X = 28240 UNDRGRD C GALVS 4 FOOT 3,494.000 X = 28240 UNDRGRD C GALVS	0000	SERV INSTALL POLE MT	EA	2.00		
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400100 TRANSCEIVER - FIB OPT EACH 2.000 X =	400200	ANDHOLE	EACH	3.00		
400100 TRANSCEIVER - FIB OPT 300925 ELCBL C TRACER 14 1C 301215 ELCBL C SIGNAL 14 2C 301225 ELCBL C SIGNAL 14 3C FOOT 3,494.000 X 301225 ELCBL C SIGNAL 14 5C FOOT 3,497.000 X 30125 ELCBL C SIGNAL 14 7C FOOT 9,229.000 X 301305 ELCBL C LEAD 14 1PR FOOT 9,229.000 X	400300	DBL HANDHOLE	EACH	200		
301215 ELCBL C TRACER 14 1C	400100	TRANSCEIVER - FIB OPT	EAC	2.00	1 1	
301215 ELCBL C SIGNAL 14 2C ** FOOT 3,494.000 X =	300925	ELCBL C TRACER 14 1C	LL,	,380.00		
301225 ELCBL C SIGNAL 14 3C 301245 ELCBL C SIGNAL 14 5C 301245 ELCBL C SIGNAL 14 7C 301255 ELCBL C SIGNAL 14 7C 301255 ELCBL C LEAD 14 1PR ** FOOT 9,229.000 X =	301215	ELCBL C SIGNAL 14 2C	*	,494.00		
301255 ELCBL C SIGNAL 14 7C	301225	ELCBL C SIGNAL 14 3C	F007	,215.00		
301255 ELCBL C SIGNAL 14 7C F00T 607.000 X = 301305 ELCBL C LEAD 14 1PR ** F00T 9,229.000 X = 301305 ELCBL C LEAD 14 1PR **	301245	ELCBL C SIGNAL 14 5C	.00	,370.00		
301305 ELCBL C LEAD 14 1PR * FOOT 9,229.00	301255	ELCBL C SIGNAL 14 7C		607.00		
	301305	ELCBL C LEAD 14 1PR		,229.00		

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UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CT	- II		- II -						11						11
QUANTITY	77.000 X	54.00	3.00	00	000	00	000	000.	1.00	00	8.00	00.	000.	15.000 X	00.
UNIT OF MEASURE	F00T				· Ш		(Ā	EA	<u> </u>					EACH	-
PAY ITEM DESCRIPTION	ELCBL C SERV	ELCBL C EGRDC 6 1C	TS POST GALVS 14	TS POST GALVS 16	TS POST GALVS 18	S MAA & P 38	S MAA & P 42	STL COMB MAA&P 36	STL COMB MAA&P 54	CONC FDN TY A	CONC FDN TY C	CONC FDN TY E 36D	DRILL EX HANDHOLE	SH LED 1F 3S MAM	H LED 1F 3S BM
ITEM	7301805	7301900	7502480	7502500	7502520	7700230	7700250	7702910	7702990	7800100	7800150	7800415	7900200	30020	80300

* (Revised 4122113

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UNIT PRICE TOTAL PRICE DOLLARS CENTS DOLLARS CTS	— II — II I I I I I I I I I I I I I I I	— II —									11 -	- II -			- 11
QUANTITY	1.000 X	X 000 ° 8	1,000 X	2.000 X	34.000 X	19.000 X	1,339.000 X	5.000 ×		0	0	8.000 X	1.000 X	2.000 X	1.000 X
UNIT OF MEASURE	EACH	EACH	1		1 !	EAC		EACH	l I	I	i			1 !	ЕАСН
PAY ITEM DESCRIPTION	ו ט	SH LED 2F 3S BM	SH LED 2F 1-3 1-5 BM	PED SH LED 1F BM CDT	TS BACKPLATE LOU ALUM	INDUCTIVE LOOP DETECT	PREFORM DETECT LOOP	LIGHT DETECTOR	LIGHT DETECTOR AMP	PED PUSH-BUTTON	TEMP TR SIG INSTALL	RELOC EX TS POST	RELOC EX MAA & POLE	REBUILD EX SIG HD LED	OD EX CONTR
ITEM	8030110	8030210	8030240	8102717	8200210	8500100	8600700	200	8700300	8800100	9000100	9501150	9501300	9502105	9502200

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TTEM		UNIT OF		UNIT PRI	CE	TOTAL PRICE	ш
NUMBER	PAY ITEM DESCRIPTION	MEASURE	QUANTITY	DOLLARS CENTS	CENTS	DOLLARS	CTS
89502300	REM ELCBL FR CON	F00T	5,362.000 X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	— II —		! ! !
89502375		EACH	3.000 X		— II —		
502376	REBUILD EX HANDHO		1.000 X		1 1 1 1		1
89502380	REMOV EX HANDHOL	EACH	X 000 61	 	- II ! ! !	1 1 1 1 1 1 1 1 1	
89502385	89502385 REMOV EX CONC FDN	ЕАСН	20.000 x		- II		

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE

TOTAL

- THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY. 2
- 3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
- 4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

* Revised 4/22/13

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MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

STATUS OF UTILITIES TO BE ADJUSTED

Effective: January 30, 1987 Revised: January 24, 2013

Utilities companies involved in this project have provided the following estimated durations:

Name of Utility	Туре	Location	Estimated Duration of Time for the Completion of Relocation or Adjustments
NICOR	Gas	 IL 25/Stearns Rd. Intersection II 25/Stearns Rd. Gilbert St. Intersection IL 25/Stearns Rd. – Gilbert Street to E. Branch Brewster Creek 	45 Working Days
ComEd	Electricity	Various Pole RelocationsAerial Line over UPRR	30 Working Days
AT&T	Telephone, fiber optic	- '	105 Working Days
Fox River Water Reclamation District	Force Main	- UPRR over IL 25/Stearns Rd. South Side	62 Working Days

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

In accordance with 605 ILCS 5/9-113 of the Illinois Compiled Statutes, utility companies have 90 days to complete the relocation of their facilities after receipt of written notice from the Department. The 90-day written notice will be sent to the utility companies after the following occurs:

1) Proposed right of way is clear for contract award.

This work shall include making all timings and adjustments to the above intersections necessary from the first day of construction until the completion of construction on this contract.

The contractor shall make timing adjustments and prepare comment responses as directed by the Area Traffic Signal Operations Engineer.

Basis of Payment. This work shall be paid for at the contract unit price each for TEMPORARY TRAFFIC SIGNAL TIMING, which price shall be payment in full for performing all work described herein per intersection. When the temporary traffic signal installation is turned on, 50 percent of the bid price will be paid. All other listed intersections will be paid 50 percent of the bid price after 2 weeks from the start of construction on this contract. The remaining 50 percent of the bid price will be paid following the removal of the temporary traffic signal installation and/or after returning the traffic signal timing to its existing condition at all other intersections listed at the completion of construction on this contract.

POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)

<u>Description</u>: This work shall consist of installing wooden post mounted yellow flashing beacons at the locations indicated in the plans. The beacons shall be interconnected with the traffic signal as noted in the plans.

<u>Installation</u>: The Contractor is required to coordinate with the Resident Engineer all aspects of the installation of the post mounted flashing beacons.

The Contractor shall coordinate the times the beacons turn on per the notes or sequence of operations noted on the plans.

Any proposed activity in the vicinity of a highway-rail grade crossing must adhere to the guidelines set forth in the Manual on Uniform Traffic Control Devices (MUTCD) under Section 6G.18: Work in the vicinity of a grade crossing which states: "When grade crossings exist either within or in the vicinity of a TTC zone, lane restrictions, flagging, or other operations shall not create conditions where vehicles can be queued across the tracks. If the queuing of vehicles across the tracks cannot be avoided, a uniformed law enforcement officer or flagger shall be provided at the crossing to prevent vehicles from stopping on the tracks, even if automatic warning devices are in place."

After installation, it shall be the responsibility of the Contractor to make sure that the post mounted flashing beacons are working properly.

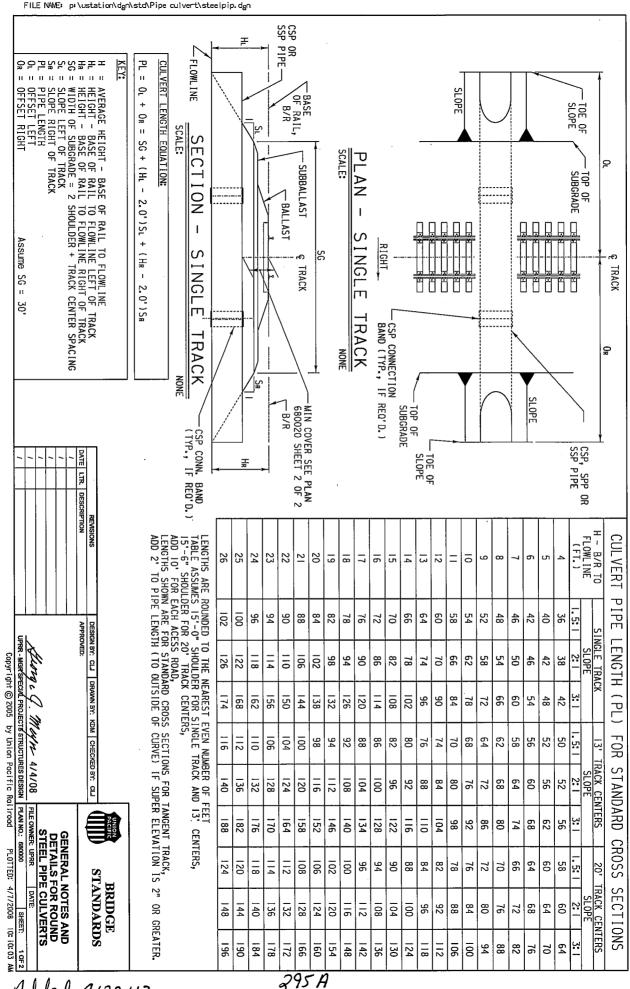
<u>Basis of Payment</u>: This work will be paid for at the contract unit price per each for POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL). Payment for this item shall include the installation, 1-face, 1-section yellow signal head, connections / terminations in the traffic signal cabinet, and all necessary hardware required for mounting and installation.

IL 25 / STEARNS ROAD SECTION 06-00214-18-BP CONTRACT 63598 KANE COUNTY

PIPE DRAINS 12" (SPECIAL)

<u>Description</u>: This work shall consist of installing corrugated metal pipe culverts under the UPRR temporary shoo-fly track at locations shown on the plans. The work shall be completed complying with the attached UPRR Bridge Standards.

Basis of Payment: This work shall be paid for at the contract unit price per foot for PIPE DRAINS 12" (SPECIAL). Payment for this item shall include all labor, equipment, and material, including pipe bedding and riprap, required to complete the work as herein specified.



RIPRAP: Class of irpop shall be specified by the engineer. Riprop shall be placed in such a manner as to avoid segregation of various sizes of rack, and distributed so that there will be no large accumulation of either the larger or smaller sizes of stone. Individual racks shall be placed in tight contact with one another in such a way to produce the least amount of void spaces. Riprop shall be sailed unfractured rack or concrete, bulky in shape with sharp angular edges. ÇLASS ÇLASS SCREEN SIZE I inch I/2 inch I/3 inch I/6 inch No. 4 No. 200 Controlled Low-Strength Material is a self-compacting, cementitious fill material with an unconfined compressive strength of 50 to 300 psi. The mixture shall consist of water, Periland cement, fly ash, and sound fine or coarse aggregate or both. The mix design shall allow adequate flowebility without segregation of aggregates. Burdening time is of prime importance and CLSM should develop 50 psi in dout one hour. The maximum layer of thickness for CLSM shall be 3 feet. Additional layers shall not be placed until the CLSM has lost sufficient moisture to be walked on without indenting more than two inches. Pipe spacing may be reduced with CLSM. The entire mass of riprap shall well distributed within the specified. However, the following allowances shall be acceptorated the required riprap protection: Contact the Union Pacific "Call Before You Dig" number 90 days ino less than 60 days in prior to the proposed construction start date. Prior to construction, confirm that all necessary relocations have been completed. The CBYD number is: 1-800-336-9193. Well compacted fill shall be well graded granular soil free of any organic material, strones larger than 1½ inches, frozen large, debris or excessive moisture. Fill shall be compacted to 95% of maximum dry density as defined in ASIM international DISS? (Modified Prostor). Fill shall be placed and compacted in layers not to exceed 6 inches. Fill shall be placed smallthoneously on both sides of the pipe and between multiple pipes. CLSM may be used in lieu of well compacted fill. The englineer shall obtain site specific information on corrosiveness of the soil which may require on increase in material thickness or protective coatings based on local experience. Union Pacific sealant ballast, item no. 562-5428, may be used. Pipe bedding shall be granular material such as aggregates ordinarily specified and used in the construction of highway base and subbase, these aggregates include crushed stone, natural or crushed grove; natural or manufactured sonds, anshed slag or a homogeneous nature of these materials. Pipe bedding shall be compacted to 95% of maximum dry density as defined in ASIM International D1557 that first processing the commended gradation is as follows: CONTROLLED LOW-STRENGTH MATERIAL (CLSM) FILL: CORROSION PROTECTION: GENERAL Riprap Class Riprap Class Riprap Class Riprap Class Individuai rocks shall vary as shown: IBER OPTIC CABLE: IPE BEDDING: AVERAGE WEIGHT PER STONE (LBS.) 50 to 200 200 to 1,000 1,000 to 4,000 > 4,000 NOTES No allowances are permitted 15% of Riprop Class I, 15% of Riprop Class I, and 15% of Riprop Class II, 15% of Riprop Class I, 15% of Riprop Class II, and 15% of Riprop Class III. \$ PASSING (BY WEIGHT) 100 50-90 20-40 10-20 1ess than 5% DIMENSION (INCHES) 9 to 14 14 to 24 24 to 38 > 38 UNIT OF MEASURE Ton Ton Ton Ton imits TYPICAL VELOCITIES 6 - 8 fps 8 - 12 fps > 12 fps > 12 fps SPECIAL CASES CSP CSP OR SSP SPAC SCALE: SCALE: RIPRAP OR SSP BASE OF RAIL-20 (MIN.) ING ZIMUM ı 96" OR MORE AND 24" to 96" PIPE DI AMETER 12" to 24" 0 Æ SPACING CHART Ш TABLE DESCRIPTION U EVAT ֝֟֝֟֟֝֟ ֡ D RIPRAP COVE 20 (MIN.) SPACIN SETWEEN PIPES D/2 8 2 NONE NEW PORT محا SEE CONSTRUCTION CLASS CLASS CLASS CLASS 1'-6" 2'-0" 3'-0" 4'-0" <u>-</u> -11 111 V1 СSР DESIGN BY: APPROVED: 뎡 OR SSP 유 UPRR - MGR SPECIAL PROJECTS STRUCTURES DESIGN Glorge IN NORMAL SOIL IN ROCK IN SOFT SOIL 6" 12" 18" MIN. MIN. NOT LESS THAN XCAVAT Copyright © 2005 D/2 SUBGRADE CLJ DRAWN BY: KDM CHECKED BY: Moyn 414108 SCALE: I O N by Union Pacific Railroad 48 ςς 24 E 2 6 IPRAP MAX.XAM 유 ЗSР L PIPE BEDDING C EXCAVATION (DIA. ≤ 48") C EXCAVATION (DIA. 54" TO C EXCAVATION (DIA. ≥ 84") AND 5 ١ PLAN NO.: 680000 FILE OWNER: UPRR COMPACT EXISTING П SECT ₩_{EGL} IIII PIPE BEDDING GENERAL NOTES AND DETAILS FOR ROUND STEEL PIPE CULVERTS WELL COMPACTED RIPRAP PLOTTED: 4/7/2008 (OR TOP OF SLOPE) STANDARDS NONE IMITS BRIDGE 0 DATE 710S 78") FIL 10: 10: 37 AM

CONSTRUCTION NOTES

GENERAL:

These structures are designed for Cooper E80 live and cover as shown in Table 1. load with impact,

Generally, 30 inch diameter and larger Corrugated is preferred for mainline culverts. Smaller pipes Steel Pipe (CSP) are to be used t 햑

Table I indicates the minimum required gage thickness for structural stability.

- Installation of CSP shall conform to the current American Railway Engineering and Maintenance-of-Way Association (AREWA) Manual for Railway Engineering, Chapter 1, Part 4, Culvert lengths are to be based on standard mainline roadbed sections.
- These standards are for installation in soil with a pH of 5-9 and resistivity 2 1,500 ohm cm. Pipes located in soils autside this range shall have additional corrosion protection as specified by the engineer.

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- Wire or timber strutting used during installation must be removed immediately after installation and backfill are complete.
- ģ Pipe culverts will generally be joined using 2 foot wide locking corrugated metal connecting bands. The inside of corrugated connecting bands and the outside of pipe culverts to be joined by corrugated connecting bands shall be kept clean and free of all rust, dirt or gravel. The corrugations on the connecting bands and the pipe culvert shall fit snugly as the connecting bands are tightened.

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Corrugated steel pipe culverts must be placed with the inside circumferential laps pointing downstream.

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- Culverts resting on rock foundation need not be cambered. Unless otherwise specified by the engineer all other CSP culverts shall be cambered in accordance with the following: Embankments up to 8 feet high (measured base of rall to flowline) require a 1/2 inch comber.
- Embankments 8 feet to 12 feet high require a 2½
- ç Embankments 12 feet to 18 feet high require a 4 inch

'n

In no case shall the culvert be combered so high in the center that water will be pocketed at the inlet end of the pipe.

PIPE MATERIAL SPECIFICATIONS, FABRICATION AND TOLERANCE:

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- CSP material shall be in accordance with the current AREWA Manual for Railway Engineering, Chapter 1, Part 4, Section
- The pipe shall be fabricated, furnished as follows: assembled into sections and

12", 18", 21", AND 24" DIAMETER ONLY:

Class I with 2 2/3" \times ½" annular corrugations. Shape I, vertical elongation is not required. Single riveted longitudinal seams.

30" DIAMETER AND GREATER:

Class I with 3" x I" annular corrugations (30 inch pipes may have 2 2/3" x N" annular corrugations). Shape 2, factory elangated with vertical length 5% greater than the nominal diameter. Double riveted seams.

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ALL CSP DIAMETERS:

Square cut ends.

Two lifting lugs per preassembled section.

Lifting hardware for erection and installation of the Aluminized Type 2 per American Association of the Aluminized Type 2 per American Association of the Aluminized Type 5 per American Association of the Transportation officials (ASSITO) MC74 (96 inch diameter pipes shall be galvanized). State Highway

Permonently attach an identification plate inside the pipe near the end of the segment. The plate is to contain the following information in at least Mirach high letters:

Name of manufacturer and plant location
Date assembled
Gage
Diameter
Length

The same information plus the lifting weight shall stenclied on the outside face of the pipe. 8

4

- The Inside diameter of the circular pipe shall not vary more than ½ inch from the nominal diameter when measured on the inside crest of the corrugations for diameters through 48 inches, and 1% for diameters greater than 48 inches. In no case shall the difference in the diameter of the abutting pipe ends be more than ½ inch.
- The minimum width of the longitudinal lop is $||l_2|$ inches for all pipes with nominal inside diameter of 12 to 21 inches, 2 lackes for pipes with mominal inside diameter of 24 inches or 30 inches, and 3 inches for all pipes with nominal inside diameter of 36 inches or greater.

DATE LTR

DESCRIPTION

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Riveted Seams:

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- All 14 gage pipe shall have at I rivets. All 12 gage and thicker Kinch diameter rivets. pipe shall have at least
- Longitudinal seams shall be rivered with one rivet in a corrugation valley for all pipes 24 inches in diameter smaller. Longitudinal seams shall be riveted with two rivers in each corrugation valley for all pipes larger than 24 inches. Circumferential seams shall be rivered with a maximum rivet spacing of six inches. 900

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- All rivets shall be coid driven in such a manner that the metal shall be drawn tightly together throughout the entire lap. The center of each rivet shall not be closer than two rivet diameters from the edge of the sheet. All rivets shall have full hemispherical hadds or heads of a form acceptable to the engineer. They shall be driven in a workmanlike manner to completely fill the hole without bending.
- Rivets shall conform to the specifications of ASTM International A31, Grade A and shall be electroplated in accordance with the specifications of ASTM International A164, Type RS.

7

Pipes shall be jointed with locking coupling bands in accordance with the provisions of the AREMA Manual for Roilway Engineering Chapter I, Part 4, Section 4.3.4. Coupling bands shall be of the same base metal and finish as the pipe. Coupling bands shall be 24 inches wide for pipes 30 inch diameter and larger, Smaller pipes may use 7 inch wide bands. Coupling band thickness is shown in Table I.

DESIGN BY: CLJ | DRAWN BY: KDM | CHECKED BY: CLJ

STANDARDS BRIDGE

TABLE FOR CORRUGATED

FILE OWNER: UPRR STEEL PIPE DATE CULVERTS

UPRR - MGR SPECIAL PROJECTS STRUCTURES DESIGN

PLAN NO :

680020 PLOTTED:

4/7/2008

10: 11: 24 AM

SHEET

Copyright © 2005

by Union Pacific Railroad

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Meyn 414108

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,	AIL TO T	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	-6"	1,-6,	-6	l6"	(FT.)		
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DATE LTR.		2, 296 3, 192	1, 960	1,288	1,036	574	420	336	252	168	WEIGHT (LB.)	CORRI	
REVISIONS		510-3115	+	-	510-3074	510-3065	510-3046	1 1	,	1	ITEM NO.	ROUND CORRUGATED STEEL	
N		3, 648	2,240	1,472	1, 184			384	288	192	WEIGHT (LB.)	1	
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DESIGN BY: APPROVED: UPRR:		4, 104	2, 520	1,656	1, 332	738	540	432	324	216	WEIGHT (LB.)	P)	
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BRIDGE STANDARDS STANDARDS CONSTRUCTION NOTES AND TABLE FOR CORRUGATED STEEL PIPE CULVERTS E DWMER: UPRR DATE 200 ANNO: 980220 SHEET: 2 200		0 2	12	=	4 8	5	6	6 6	<u></u>	6	GAGE	RANDS	
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CONSTRUCTION NOTES

GENERAL:

These structures are designed for Cooper E80 Live Load with impact, and cover as shown in Table I.

Table I indicates the minimum required thickness.

Where indicated, pipe to be bored and jacked into place. Bore hole diameter shall be essentially the same as the outside diameter of the pipe. If volds should develop or if the bared hole diameter is greater than the autside diameter of the pipe by more than I lack, notify the Office of AVP Engineering Design. Boring operations shall not be stopped if such a stoppage would be detrimental to the railroad. A survey crew shall continually monitor the elevation and alignment of the railroad track si bove during the jacking procedures. If track movement or loss of ballast exceeds Minch during jacking or boring operations, all work must stop and the Railroad notified. The fallroad may take any action necessary to ensure safe passage of trains. The contractor must immediately submit a corrective plan of action to the Railroad for review and aproval. The Railroad distributed and track can be placed back into service, and the construction proceed. INSTALLATION:
Installation of Smooth Steel Pipe (SSP) shall conform to the current American Rollway Engineering and Maintenance-of-Way Association (AREMA) Manual for Rollway Engineering, Chapter I Part 4. Culvert lengths are to be based on standard mainline roadbed sections. JACK ING:

BORED AND JACKED TOLERANCE:

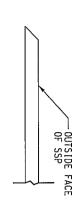
The permitted tolerance of a true line is +/- 2". Adjustment to the line and level should be gradual to ensure that the pipe manufacture's stated angular deflection is not exceeded at any joint.

FIELD WELDING:

Welders must posses valid certification.

Pipe shall be in accordance with ASTM International Al39. Pipe to be Grade B and steel shall have a minimum yield strength of 35 ksl. A hydrostatic test is not required.

Smooth steel pipe shall have a welded straight longitudinal seam. The ends of each section of pipe shall be square cut. One end shall be suitably beveled for field welding sections together.



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DESCRIPTION

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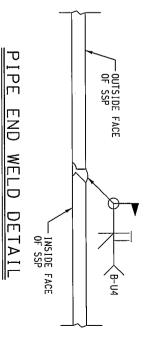
Jungi

4/4/08

Copyright © 2005 by Union Pacific Railroad

U) I PE ND BEVEL DETAI

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	* COVER TO BE MEASURED FROM BASE OF RAIL TO TOP OF PIPE	96"	84"	72"	60"	48"	42"	36"	30"	24"	21"	8"	12"	P I P E D I AMETER	OUTS I DE	TABL
	URED FROM BASE O	11/4		1/8	3/4	5%	1/2	1/2	36	%	%	1/4	<u></u> %	(IN.)	THICKNESS	_E
	F RAIL TO TOP	1, 267	888	666	475	317	222	190	119	80	69	48	24	(LB. /FT.)	WEIGHT	DUND SMO
	와 PIPE	1,-6,	1'-6"	1'-6"	1'-6"	1'-6"	1,-6,	1'-6"	1,-6,	1'-6"	1'-6"	1'-6"	1'-6"	MIN. (FT.)	A03)0TH
	ļ	18'-0"	18'-0"	18"-0"	18"-0"	18"-0"	18'-0"	18"-0"	18"-0"	18"-0"	18"-0"	18'-0"	18'-0"	(FT.)	COVER *	STEEL
		t	1	ı	ı	510-3293	t	510-3285	1	1	. 1	1	1	STORE ITEM NUMBERS	70'-0" LE	TABLE I - ROUND SMOOTH STEEL PIPE (SSP)
		25, 340	17, 760	13, 320	9, 500	6, 340	4, 440	3, 800	2, 380	1,600	1,380	960	480	WEIGHT	LENGTH	')
			2	9s	^ E	=				-						



CHECKED BY: CLJ STANDARDS BRIDGE

PLAN NO .: FILE OWNER: UPRR CONSTRUCTION NOTES AND
TABLE FOR SMOOTH
STEEL PIPE CULVERTS 80010 SHEET: 1 OF 1
PLOTTED: 4/7/2008 10: 12: 09 AM

Di ameter Length	Date manutacturered	east Winch high letters: r and plant location	3. Permanently attach an identification plate inside the pipe	A minimum of 4 steel bolts per foot	6" 2" onnuier corrugations,	2. The pipe shall be fabricated, assembled into sections and	Chapter I, Part 4, Section 6.	1. SPP material and connecting material shall be in accordance with the current ARENA Monard for Railway Engineering.	MATERIALS:	In no case shall the culvert be cambered so high in the center that water will be pocketed at the inlet end of the pipe.	comber.	· D. Embankments 24 feet to 36 feet high require a 6 inch	C. Embankments 12 feet to 24 feet high require a 4 inch comber.	comber.	B. Embankments 8 feet to 12 feet high require a 2½ inch	A. Embankments up to 8 feet high (measured base of rail to flowline) require a 1/2 inch camber.	culverts shall be cambered in accordance with the following:	 Culverts resting on rock foundation need not be cambered. Unless otherwise specified by the engineer all other SPP 	the inside circumferential laps pointing downstream.	4. Structural plate pipe culverts must be placed with	 Wire or timber strutting used during installation must be removed immediately after installation and backfill are complete. 	specified by the engineer.	and resistivity 2 1,500 ohm-cm. Pipes located in soils outside this range shall have additional corrosion protection as	 These standards are for installation in soil with a pH of 5-9 	Manual for Railway Engineering, Chapter 1, Part 4, Cuivert lenaths are to be based on standard mainline roadbed sections.	I. installation of SPP shall conform to the current American Railway Engineering and Maintenance-of-Way Association (AREMA)	INSTALLATION:	Modulus of Elasticity: Steel = 25,000 ksi. Minimum Tensil Strength: Steel = 45 ksi	Hoctors of Satety: Seam Strength = 3, Wall Area = 2, Buckling = 2 Minimum Yield Point: Steel = 33 ksl.		DESTRU ASSIMPTIONS:	gage thickness for structural steel plate pipe includes an allowance for corrosion.	Table I indicates the minimum required thickness for structural stability based on the assumptions listed below. The required	impact, and cover as shown in Table I.	GENERAL: These structures are designed for Cooper E80 Live Load with	CONSTRUCTION NOTES
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