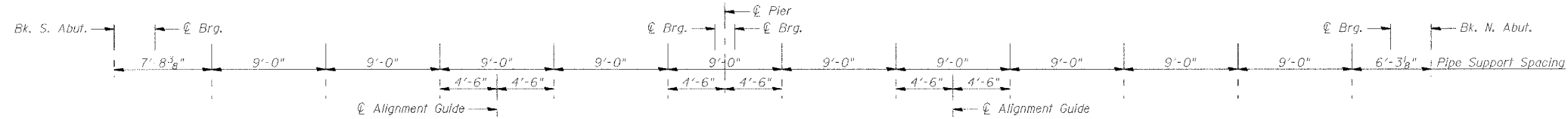
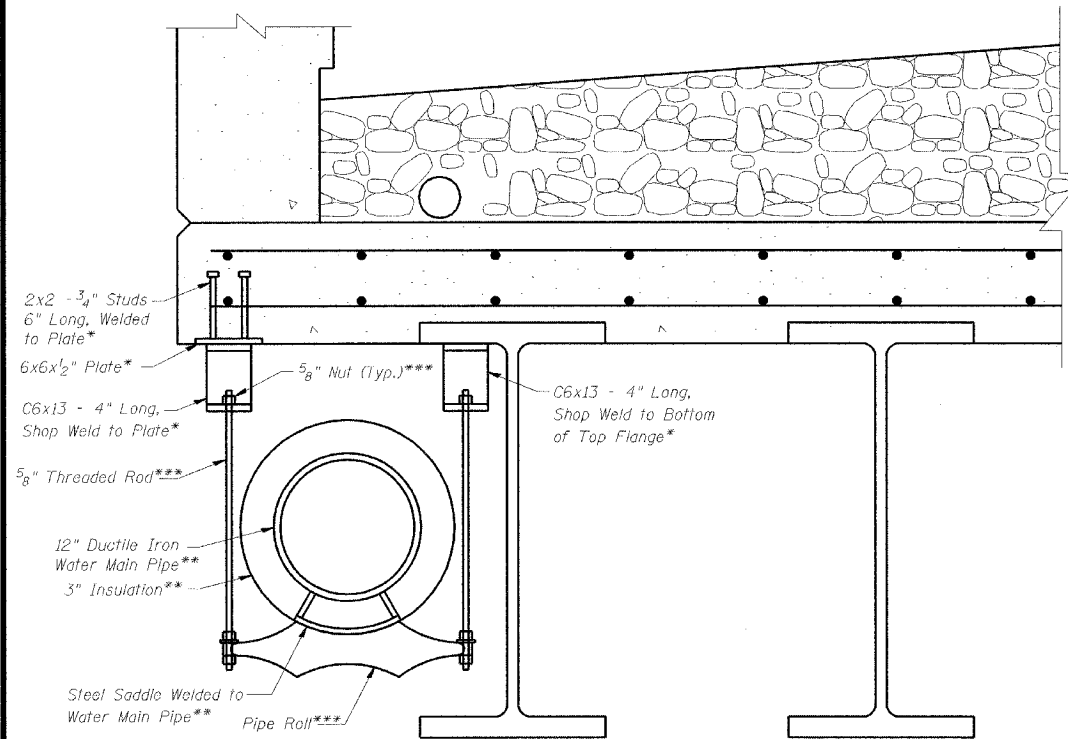


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

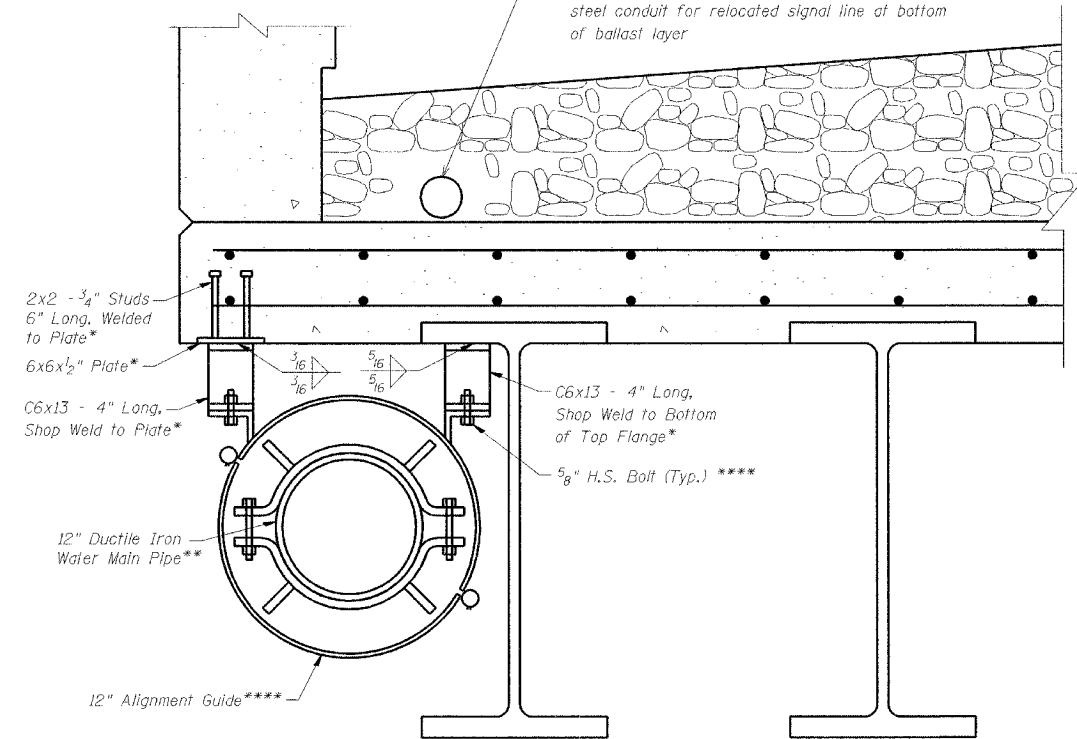
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 351	3277R	COOK	66	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
Contract No. 62206				



WATER MAIN PIPE SUPPORT SPACING
(Looking West)



PIPE SUPPORT DETAIL

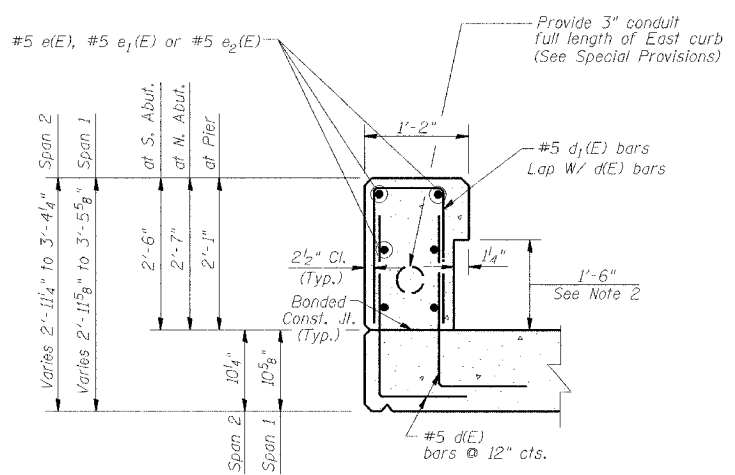


ALIGNMENT GUIDE DETAIL

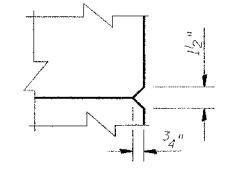
- * Cost Of These Elements To Be Included In The Price Of Bid Item "Furnishing and Erecting Structural Steel"
- ** Cost Of These Elements To Be Included In The Price Of Bid Item "Water Main Relocation" (See Roadway Plans)
- *** Cost Of These Elements To Be Included In The Price Of Bid Item "Pipe Support"
- **** Cost Of These Elements To Be Included In The Price Of Bid Item "Alignment Guide"

SUPERSTRUCTURE BILL OF MATERIAL

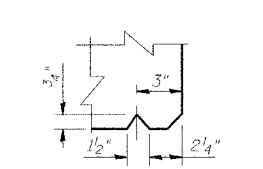
Bar	No.	Size	Length	Shape
a(E)	198	#5	33'-10"	—
a ₁ (E)	198	#5	14'-7"	—
a ₂ (E)	8	#5	21'-10"	—
a ₃ (E)	16	#5	15'-2"	—
b(E)	200	#5	30'-0"	—
b ₁ (E)	100	#5	25'-3"	—
b ₂ (E)	100	#5	17'-8"	—
d(E)	404	#5	3'-1"	⌋
d ₁ (E)	202	#5	4'-3"	⌋
e(E)	24	#5	30'-0"	—
e ₁ (E)	12	#5	25'-3"	—
e ₂ (E)	12	#5	17'-8"	—
Concrete Superstructure			Cu. Yd.	170.1
Reinforcement Bars, Epoxy Coated			Pound	24,660
Membrane Waterproofing (Special)			Sq. Ft.	5,773
Bar Splicers			Each	198
Pipe Support			Each	11
Alignment Guide			Each	2
Conduit Embedded in Structure, 3" Dia., Galvanized Steel			Foot	104
Conduit 4" Dia., Galvanized Steel			Foot	104



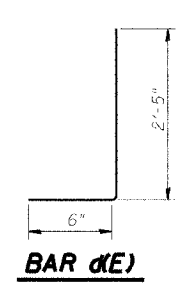
CURB SECTION



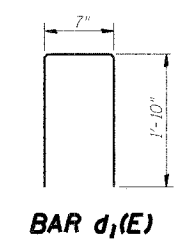
V-GROOVE DETAIL



DRIP NOTCH DETAIL



BAR d(E)



BAR d₁(E)

- Notes:
1. See Sheet 27 of 30 for Bar Splicer Details.
 2. Blockout for 3/32" Butyl Rubber Membrane and 2-1/2" Asphalt Planks.
 3. See Sheet 8 of 30 for Membrane Waterproofing Details at Joints.
 4. Reinforcement bars designated (E) shall be Epoxy Coated.
 5. All exposed edges shall have 3/4" chamfer, except as noted.

SUPERSTRUCTURE DETAILS

Date 3/27/06	Designed TDN	CN RAILROAD BRIDGE OVER U.S. 6 (159TH STREET) F.A.P. RTE. 351 SECTION 3277R COOK COUNTY STATION 92+24.25 STRUCTURE NO. 016-2754	Sheet No.
Revisions	Drawn BKN		7
	Checked DCS		of 30
	Approved KWB		
Prepared By:	URS		
3040 N. University Ave., Suite 1 Decatur, IL.			URS Job No. 36430825