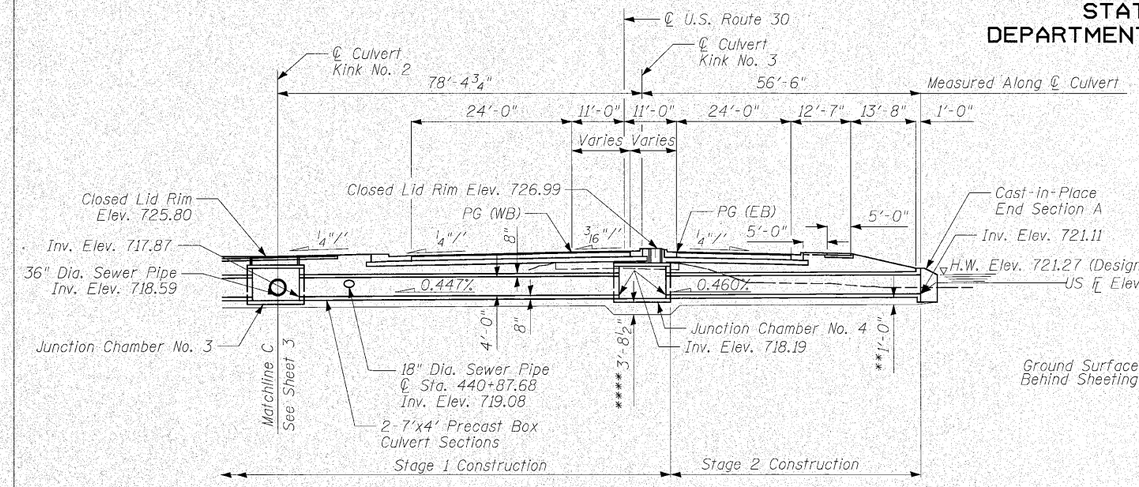
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

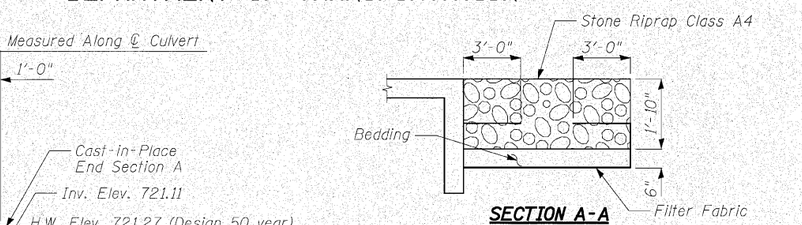
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-4	Will	608	443
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
23 SHEETS
Contract No. 62478

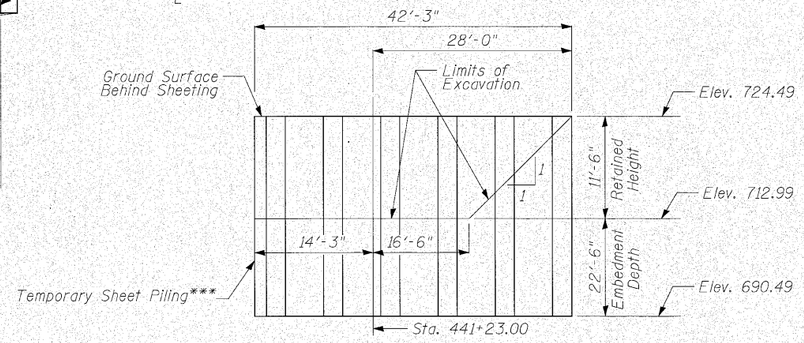


DEVELOPED LONGITUDINAL SECTION

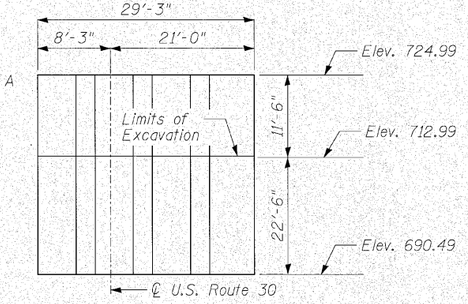
Dimensions at Right Angles to ℄ Roadway Unless Noted Otherwise



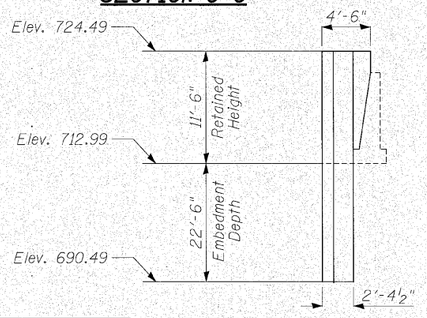
SECTION A-A



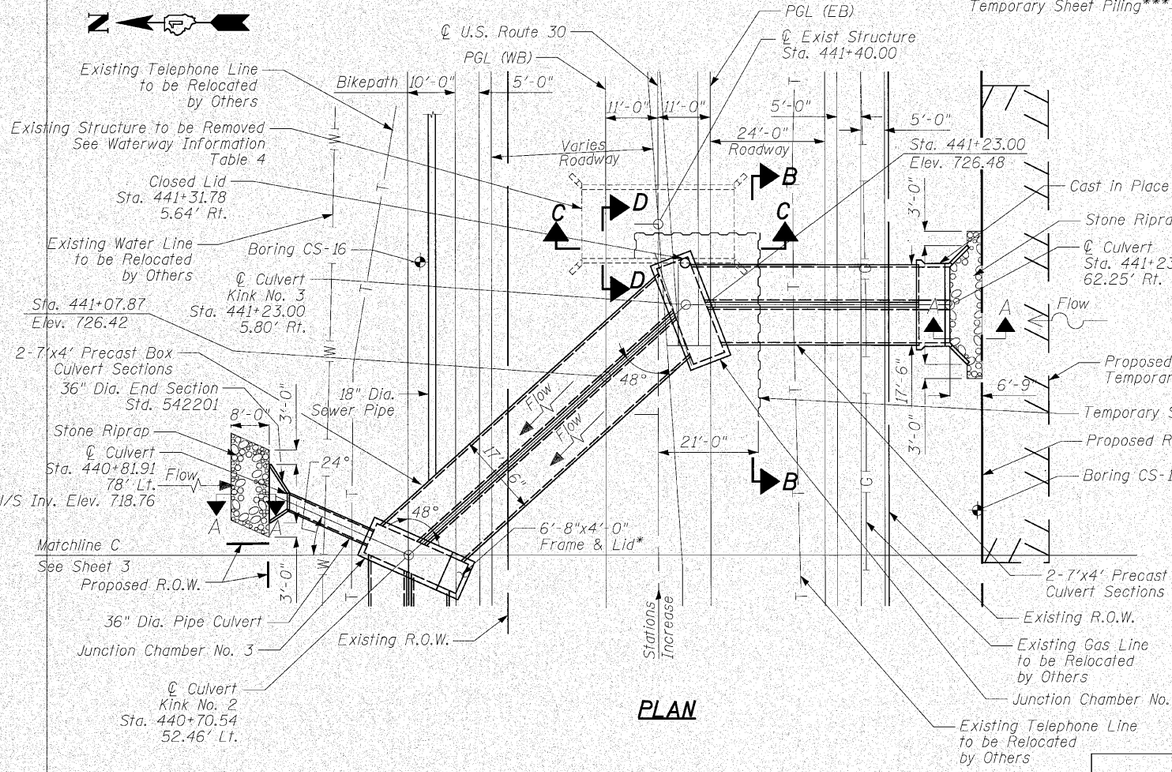
SECTION B-B



SECTION C-C



SECTION D-D



PLAN

**Frame and Lid are to be Neenah Foundry Company Type R-1899-1 Heavy Duty Utility Access Frame with Double Lid or Approved Equal. Material to be Cast Gray Iron ASTM A-48, Class 35B. Cost of Frame and Lid is Included with Cost of Junction Chamber No. 3.*

DESIGNED	MT
CHECKED	RB
DRAWN	JHP
CHECKED	SPK

STATION 441+23.00
RE-BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 353 SEC. (12&13)WRS-4
LOADING HS20
STR. NO. 099-4626

NAME PLATE

See Std. 515001

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

WATERWAY INFORMATION TABLE 1 (2-7'x4' Box Culverts)

Drainage Area = 0.83 sq. mile Low Grade Elev. = 725.91 @ Sta. 441+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	148	32.86	31.99	721.10	0.00	0.00	721.00	720.67
Design	50	261	39.07	37.54	721.52	0.07	0.00	721.59	721.11
Base	100	326	42.92	40.98	721.78	0.29	0.00	722.07	721.68
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	554	49.28	46.67	722.21	0.97	0.67	723.18	722.88

WATERWAY INFORMATION TABLE 2 (Exist. 10'x5' Double Box Culvert ℄ Sta. 427+80)

Drainage Area = 1.30 sq. miles Low Grade Elev. Exist. = 717.42 @ Sta. 424+84

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	-	-	-	-	-	-	-	-
Design	50	420	100.00	-	718.92	0.00	-	718.77	-
Base	100	500	100.00	-	719.92	0.00	-	718.94	-
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	-	-	-	-	-	-	-	-

WATERWAY INFORMATION TABLE 3 (Exist. 11'x3' Double Box Culvert ℄ Sta. 430+80)

Drainage Area = 0.90 sq. miles Low Grade Elev. Exist. = 718.17 @ Sta. 430+90

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	-	-	-	-	-	-	-	-
Design	50	420	66.00	-	718.81	0.02	-	718.83	-
Base	100	500	66.00	-	718.98	0.02	-	719.00	-
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	-	-	-	-	-	-	-	-

WATERWAY INFORMATION TABLE 4 (Exist. Bridge ℄ Sta. 441+40)

Drainage Area = 0.83 sq. miles Low Grade Elev. Existing. 723.76 @ Sta. 439+70

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	148	26.98	-	720.67	0.00	-	720.67	-
Design	50	261	33.85	-	721.13	0.08	-	721.21	-
Base	100	326	37.59	-	721.38	0.30	-	721.68	-
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	554	43.42	-	721.77	0.97	-	722.74	-

Notes:

1. *The Name Plate shall be attached to the upstream headwall in accordance to Section 514 of the Standard Specifications. Locate the Name Plate over the west cell.*
2. *If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements, shown on the plans a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.*

** *Limits of Removal of Unsuitable Material and Limits of Porous Granular Embankment, Subgrade.*

*** *Minimum section modulus per linear foot of sheet piling = 27.0 in^3/ft*

**** *Bottom Elevation of Porous Granular Embankment, Subgrade beneath Junction Chamber No. 4 is to be the same elevation as the bottom elevation at the existing abutment.*

INFRASTRUCTURE ENGINEERING | INCORPORATED
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P 312.425.9560 | F 312.425.9564 | www.infrastructure-eng.com

PARTIAL GENERAL PLAN (4 OF 4)
U.S. ROUTE 30 OVER
HICKORY CREEK TRIBUTARY 1
F.A.P. ROUTE 353 SEC. (12&13)WRS-4
WILL COUNTY
STATION 441+23.00
STRUCTURE NO. 099-4626