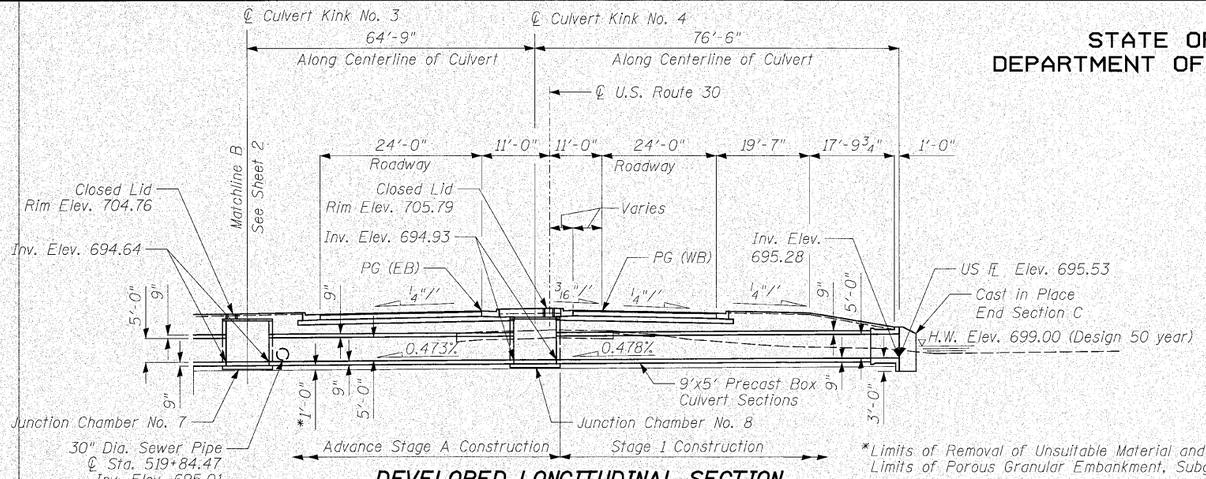
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-4	Will	608	465
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

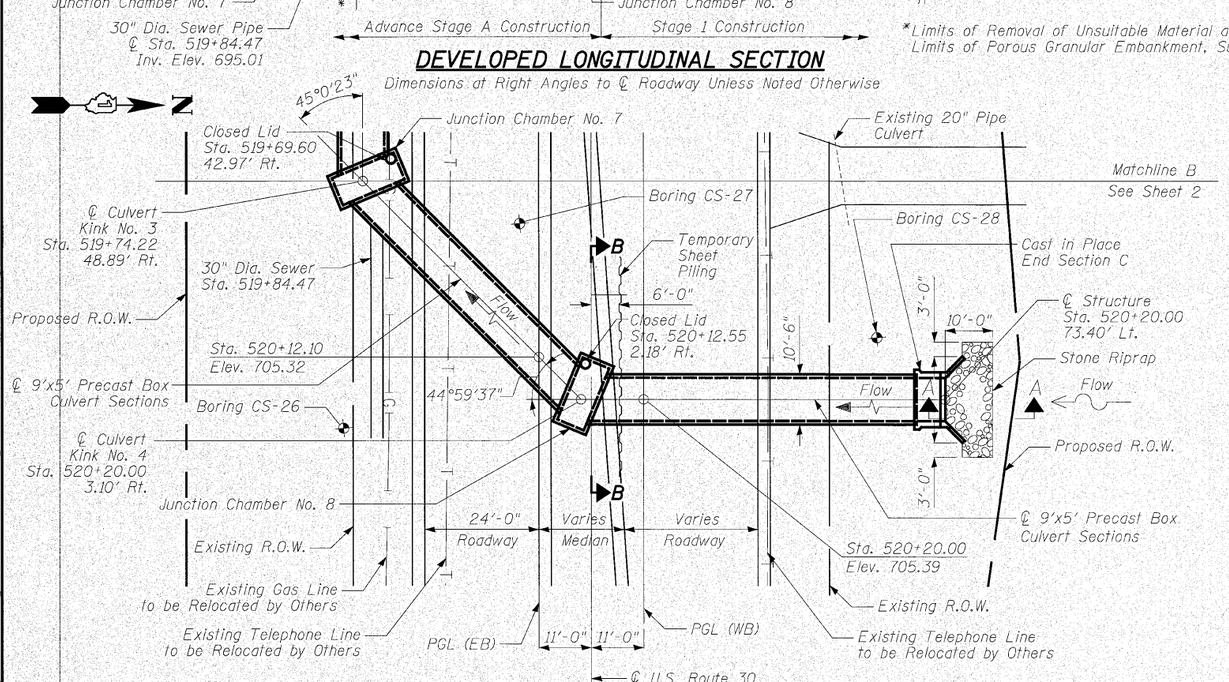
SHEET NO. 3
13 SHEETS

Contract No. 62478

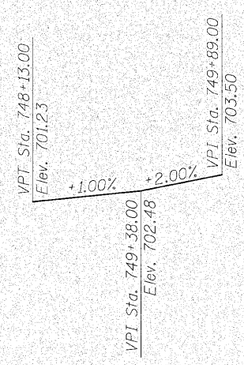


DEVELOPED LONGITUDINAL SECTION

Dimensions at Right Angles to ℄ Roadway Unless Noted Otherwise

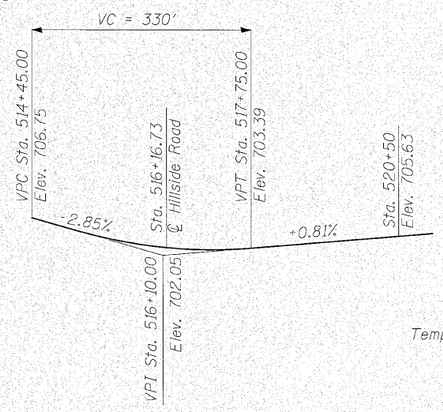


PLAN



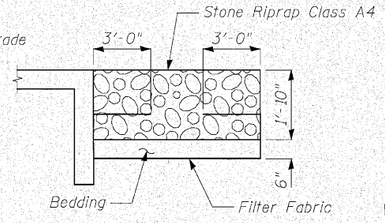
PROFILE GRADE

(Along Centerline of Hillside Road)



PROFILE GRADE

(Along the Edge of a Lane Measured
11'-0" Normal to ℄ U.S. Route 30)

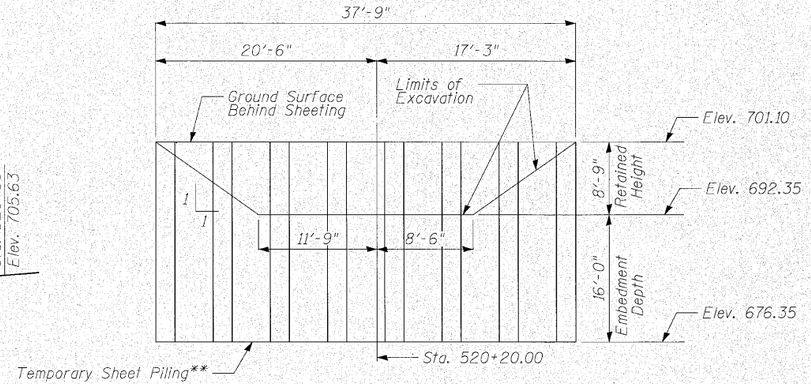


SECTION A-A

Notes:

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.

** Minimum section modulus per liner foot of sheet piling = 12.9 in^3/ft



SECTION B-B

WATERWAY INFORMATION TABLE 1 (9'x5' Box Culvert)

Drainage Area = 0.62 sq. miles. Low Grade Elev. 702.50 @ Sta. 517+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	93	12.57	27.38	698.65	0.48	0.03	699.13	698.68
Design	50	136	12.57	27.82	698.70	0.60	0.30	699.30	699.00
Base	100	153	12.57	28.34	698.76	0.53	0.40	699.29	699.16
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	193	12.57	29.31	698.87	0.61	0.77	699.48	699.64

WATERWAY INFORMATION TABLE 2 (Existing 48" CMP Culvert @ Sta. 516+40)

Drainage Area = 0.62 sq. miles. Low Grade Elev. Exist. 698.95 @ Sta. 150' Rt.

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	93	3.88	-	694.04	4.74	-	698.78	-
Design	50	136	4.69	-	694.25	4.70	-	698.95	-
Base	100	153	5.21	-	694.38	4.63	-	699.01	-
Overtopping	50	136	4.69	-	694.25	4.70	-	698.95	-
Max. Calc.	500	193	6.32	-	694.66	4.51	-	699.17	-

WATERWAY INFORMATION TABLE 3 (Existing 48" CMP Culvert @ Sta. 516+90)

Drainage Area = 0.55 sq. miles. Low Grade Elev. Exist. 698.35 @ Sta. 517+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	86	6.24	-	694.98	3.82	-	698.80	-
Design	50	125	7.28	-	695.24	3.72	-	698.96	-
Base	100	141	7.83	-	695.38	3.62	-	699.00	-
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	177	8.95	-	695.67	3.48	-	699.15	-

WATERWAY INFORMATION TABLE 4 (Existing 48" CMP Culvert)

Drainage Area = 0.54 sq.miles Low Grade Elev. Exist. 696.76 @ Sta. 132' Lt.

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	84	6.92	-	696.18	2.53	-	698.71	-
Design	50	123	7.44	-	696.31	2.60	-	698.91	-
Base	100	138	7.79	-	696.40	2.58	-	698.98	-
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	173	8.68	-	696.63	2.54	-	699.17	-

DESIGNED	MT
CHECKED	RB
DRAWN	JHP
CHECKED	SPK

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PARTIAL GENERAL PLAN (3 OF 3)
U.S. ROUTE 30 AND HILLSIDE ROAD OVER
TRIBUTARY TO HICKORY CREEK
F.A.P. ROUTE 353 SEC. (12&13)WRS-4
WILL COUNTY
STATION 520+20.00
STRUCTURE NO. 099-C027

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