Benchmark:
RR Spike on North Face of Power Pole at Southeast Corner of 79th Street and U.S. Route 30 just East of Commercial #7905, Elevation 731.73.

(i) Existing Structures:
48" Diameter Corrugated Metal Pipe 66'-4" long under Hillside Avenue at Sta. 516+40.

(ii) 48" Diameter Corrugated Metal Pipe 52'-0" long under U.S. Route 30 at Sta. 516+90.

(iii) 48" Diameter Corrugated Metal Pipe 40'-3" long under Driveway at Sta. 518+00.

Traffic on U.S. Route 30 is to be maintained utilizing stage construction. Traffic on Hillside Road is to be rerouted for Construction.

No Salvage.

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50#/sq.ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi

f_y = 60,000 psi (reinforcement)

PRECAST UNITS

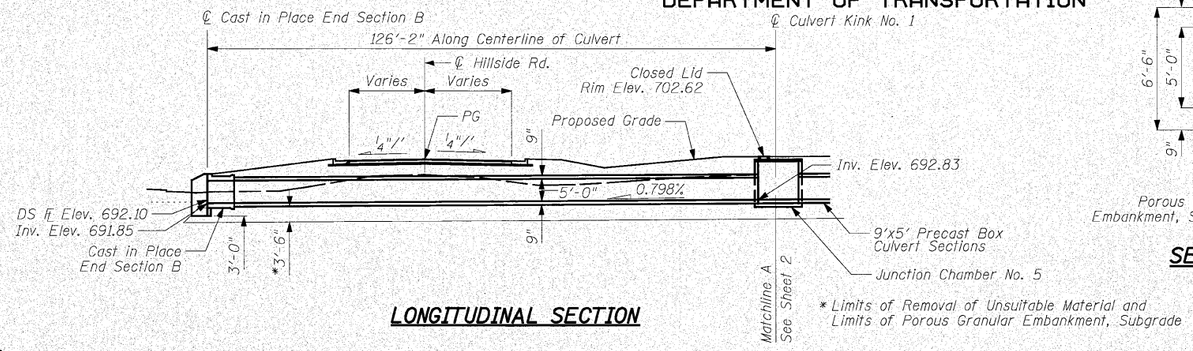
f'_c = 5,000 psi

f_y = 65,000 psi (welded wire fabric)

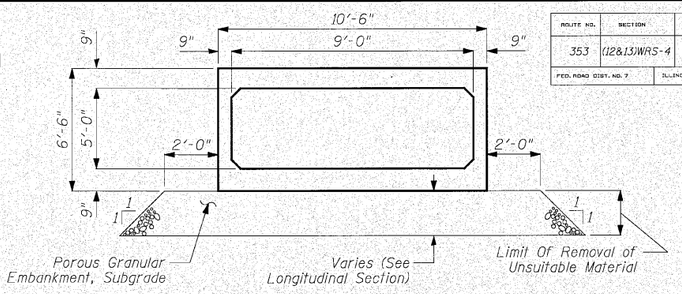
ABBREVIATIONS

℄	centerline
C.I.P.	cast-in-place
CMP	corrugated metal pipe
cts.	centers
dia.	diameter
DS	down stream
EB	Eastbound
E.F.	each face
Elev.	elevation
I.F.	inside face
Inv.	invert
Lt.	left
O.F.	outside face
PGL	profile grade line
R.O.W.	right-of-way
Rt.	right
Sta.	station
typ.	typical
US	up stream
WB	Westbound

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION



SECTION THRU 9'x5' PRECAST CONCRETE BARREL

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	(12&13)WRS-4	Will	608	463
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
13 SHEETS

Contract No. 62478

INDEX OF CULVERT DRAWINGS

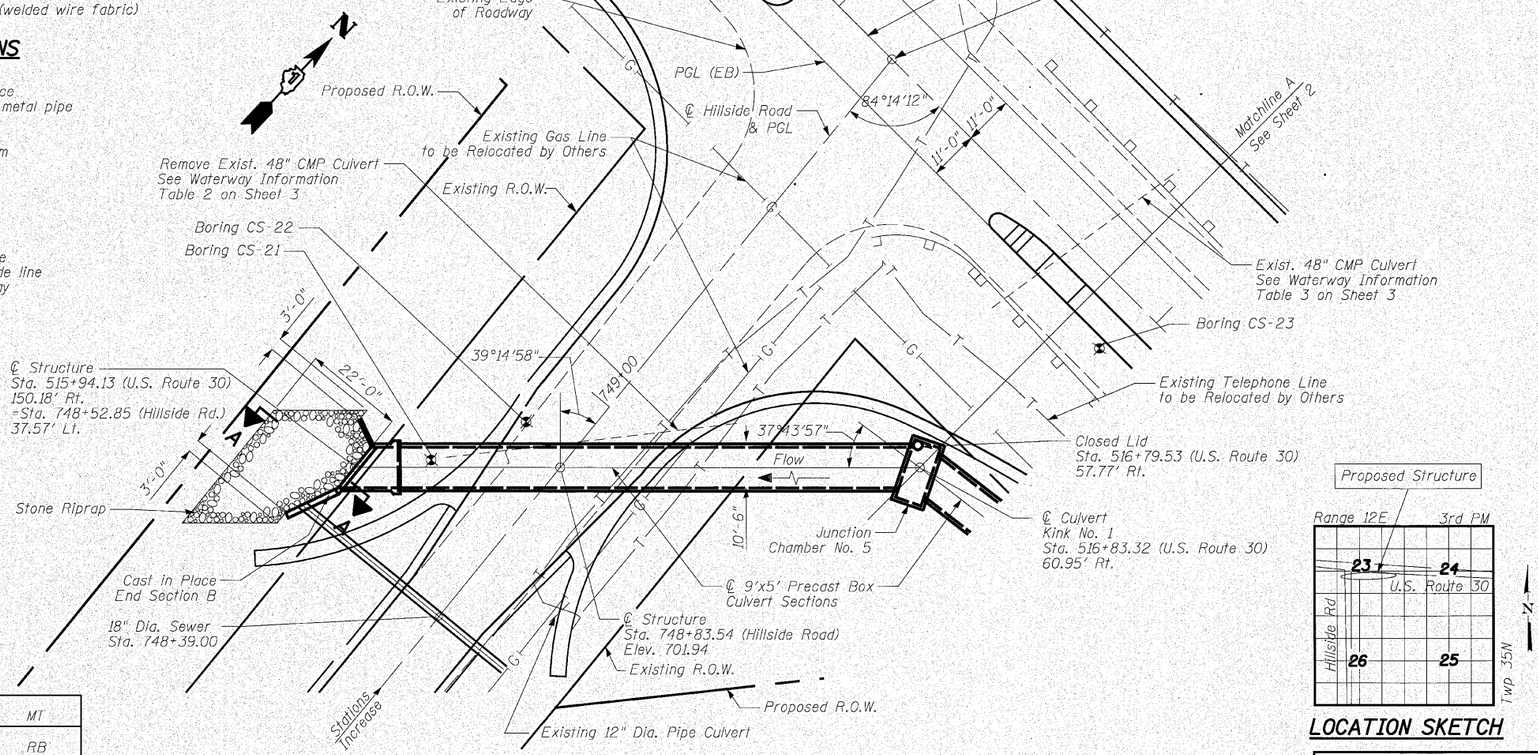
Sheet No.	Title
1	Partial General Plan (1 of 3)
2	Partial General Plan (2 of 3)
3	Partial General Plan (3 of 3)
4	End Section B
5	End Section C
6	Junction Chamber No. 5
7	Junction Chamber No. 6
8	Junction Chamber No. 7
9	Junction Chamber No. 8
10	Soil Boring Logs CS-21 & CS-22
11	Soil Boring Logs CS-23, CS-24 & CS-25
12	Soil Boring Logs CS-26 & CS-27
13	Soil Boring Log CS-28

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal and Disposal of Unsuitable Material	Cu Yd	769
Porous Granular Embankment, Subgrade	Cu Yd	667
Stone Riprap, Class A4	Sq Yd	98
Filter Fabric	Sq Yd	98
Pipe Culvert Removal	Foot	159
Temporary Sheet Piling	Sq Ft	934
Box Culvert End Section, Culvert No. 2	Each	2
Precast Concrete Box Culvert 9'x5'	Foot	519
Junction Chamber No. 5	Each	1
Junction Chamber No. 6	Each	1
Junction Chamber No. 7	Each	1
Junction Chamber No. 8	Each	1

GENERAL NOTES

1. Precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of either AASHTO M259 or M273 as applicable.
2. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
3. Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
4. All construction joints of cast-in-place concrete elements shall be bonded.
5. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
6. All Junction Chambers to have Type I Frame and Closed Lid (Standard 604001). Cost of Frame and Lid is included with cost of Junction Chamber.



PLAN

Note:
1. For Section A-A, See Sheet 3.

LOCATION SKETCH

DESIGNED	MT
CHECKED	RB
DRAWN	ASJ
CHECKED	SPK

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PARTIAL GENERAL PLAN (1 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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