

Bench Mark: "□" On end of Mast Arm.
SE Quadrant of IL RTE 56
and Wiesbrook Rd
Elev. 771.63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: Single cell 4'x4' concrete box culvert.

Traffic to be maintained using Stage Construction

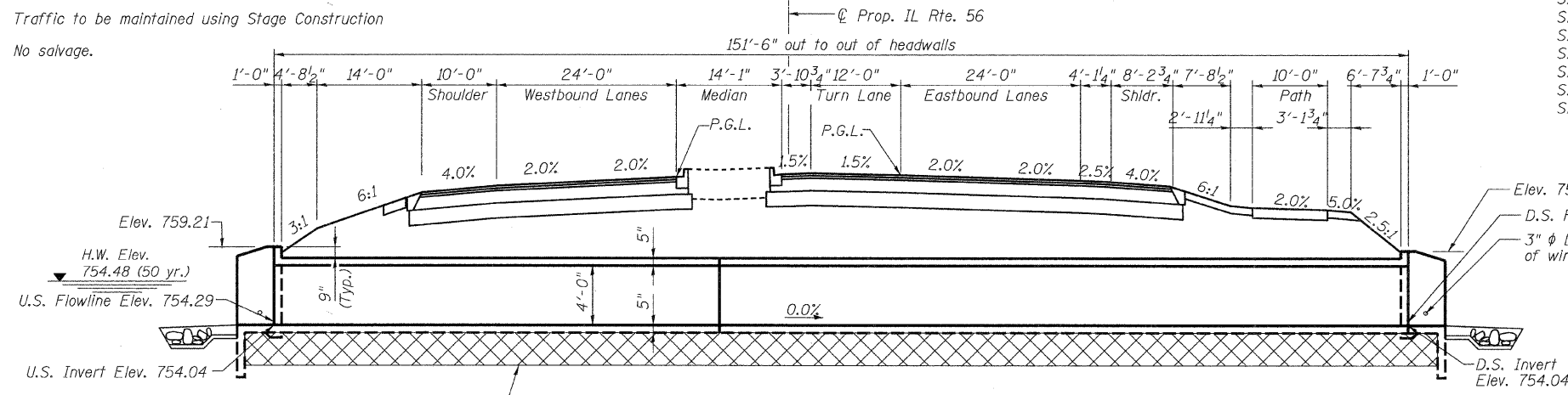
No salvage.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	874
Porous Granular Embankment, Subgrade	Cu Yd	100
Stone Riprap, Class A4	Sq Yd	29
Filter Fabric	Sq Yd	29
Structure Excavation	Cu Yd	411
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culvert 4' X 4'	Foot	151.5
Temporary Soil Retention System	Sq Ft	392

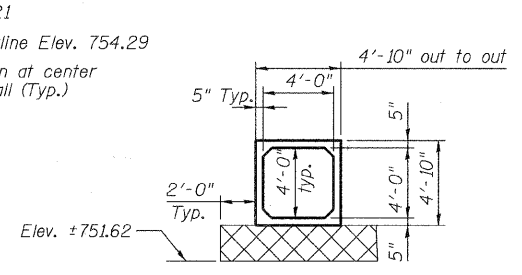
INDEX OF SHEETS

- SA-1 General Plan and Elevation
- SA-2 Stage Construction
- SA-3 Temporary Concrete Barrier
- SA-4 Precast Box Section
- SA-5 Cast-in-Place Apron Details
- SA-6 Section Through Box Culvert
- SA-7 Soil Boring Logs



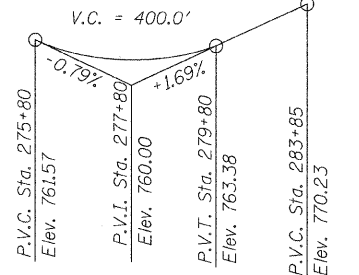
ELEVATION

(Horizontal dimensions at right angles to IL 56, taken at centerline of culvert)



SECTION THRU BARREL

The limits and quantities of removal and replacement are based on the Structure Geotechnical Report and may be modified by the District Geotechnical Engineer and Field Engineers for variable subsurface encountered in the field.



PROFILE GRADE

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.
Design fill height > 2 ft.

DESIGN SPECIFICATIONS

2002 AASHTO 17th Edition

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

DESIGN STRESSES

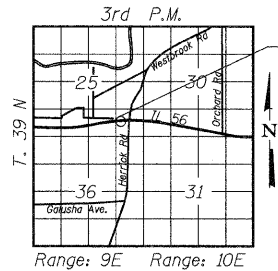
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

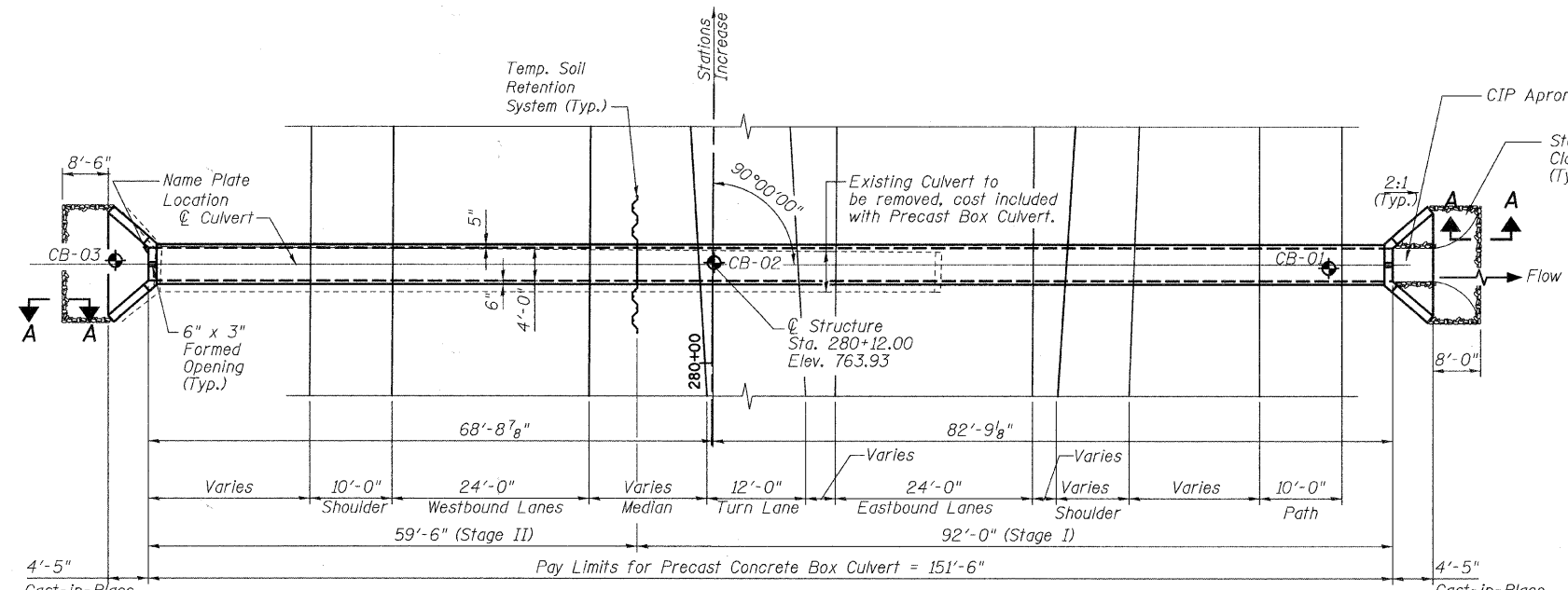
PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (welded wire fabric)

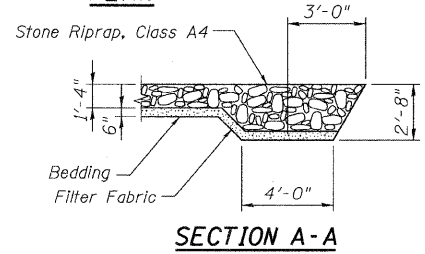
◆ Indicates Soil Boring



LOCATION SKETCH



PLAN

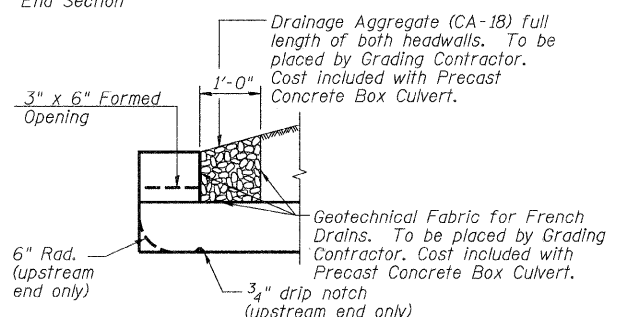


SECTION A-A

STATION 280+12
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 365
SEC (57 & 58) WRS-2
LOADING HS20

NAME PLATE

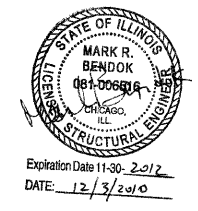
See Std. 515001



DRAIN DETAIL

WATERWAY INFORMATION

DESIGNED - EFS		CHECKED - RJT		DRAWN - EFS		CHECKED - RJT	
Flood	10	8.29	1.36	1.36	754.38	0.54	0.57
Design	50	13.22	1.76	1.76	754.48	0.80	0.83
Base	100	16.38	1.88	1.88	754.51	0.95	0.97
Overlapping							
Max. Calc.							



alfred benesch & company
Engineers - Surveyors - Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-865-0480 Job No. 3733

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA-7 SHEETS	365	(57 & 58)WRS-2	DUPAGE	681	386
			CONTRACT NO. 62419		
ILLINOIS FED. AID PROJECT					

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