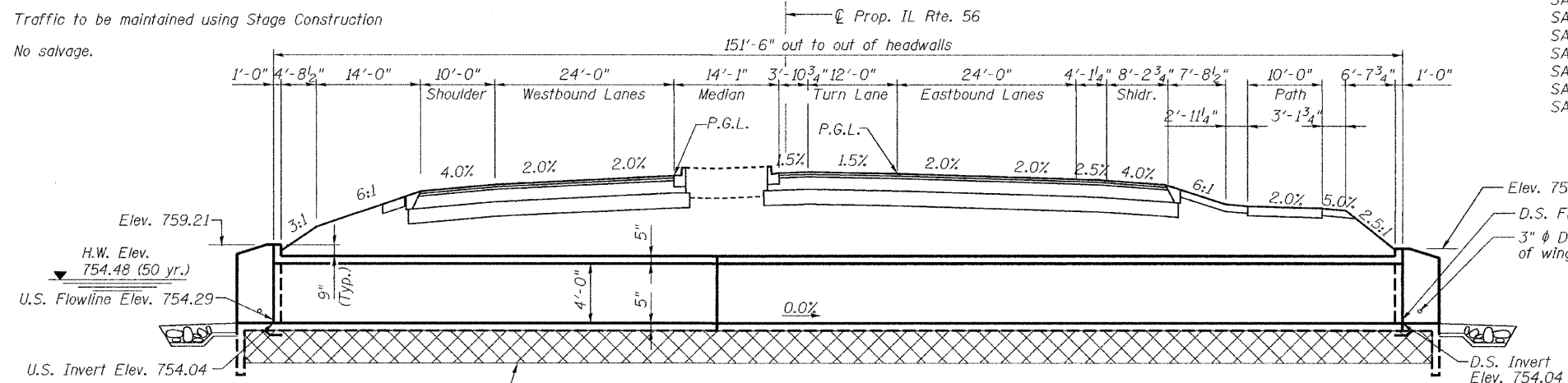


Bench Mark: "□" On end of Mast Arm.
SE Quadrant of IL RTE 56
and Wiesbrook Rd
Elev. 771.63

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: Single cell 4'x4' concrete box culvert.
Traffic to be maintained using Stage Construction
No salvage.



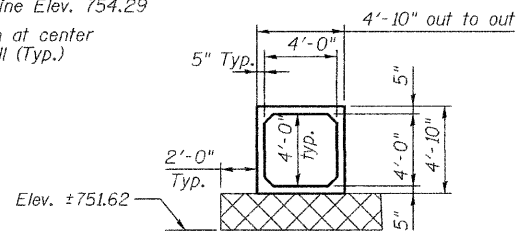
ELEVATION
(Horizontal dimensions at right angles to IL 56, taken at centerline of culvert)

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

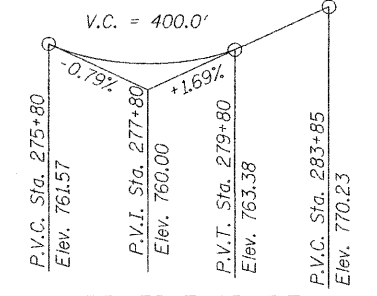
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	874
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
Porous Granular Embankment, (Special)	Cu Yd	123



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

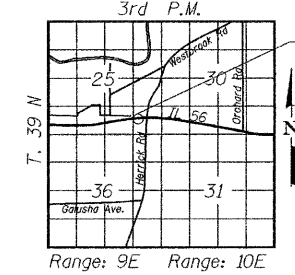
FIELD UNITS

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

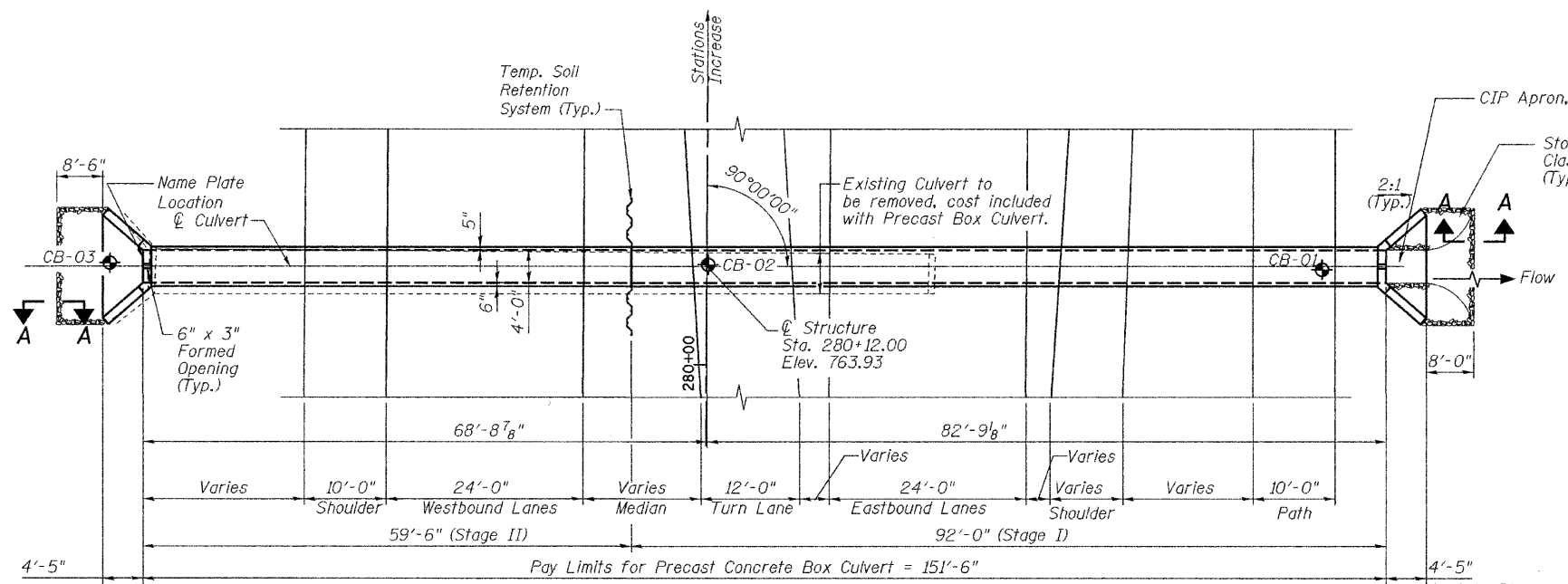
PRECAST UNITS

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

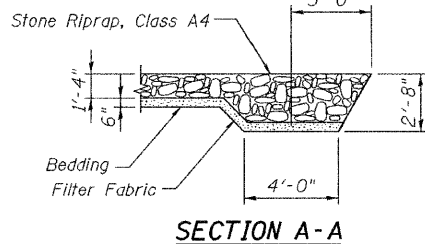
◆ Indicates Soil Boring



LOCATION SKETCH



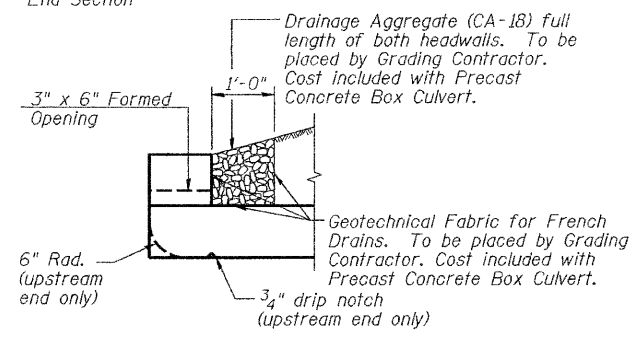
PLAN



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

Drainage Area = 27.9 Acres Low Grade Elev. 761.08 @ Sta. 277+07

Flood Yr.	Freq.	Q C.F.S.	Opening Exist.	Opening Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
10	10	8.29	1.36	1.36	754.38	0.54	0.57	754.92	754.95	754.95
Design	50	13.22	1.76	1.76	754.48	0.80	0.83	755.28	755.31	755.31
Base	100	16.38	1.88	1.88	754.51	0.95	0.97	755.46	755.48	755.48
Overtopping										
Max. Calc.										

DESIGNED	-	EFS
CHECKED	-	RJT
DRAWN	-	EFS
CHECKED	-	RJT

SHEET NO. SA-1	F.A.P. RTE. 365	SECTION (57 & 58) WRS-2	COUNTY DUPAGE	TOTAL SHEETS 681	SHEET NO. 386
SA-7 SHEETS					
CONTRACT NO. 62419					
ILLINOIS FED. AID PROJECT					

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-566-0450 Job No. 3733

ADDENDUM -1/4/11

x:\3700s\3733\Engineering_Documents_Phase.II\Culvert\1.Single.II\Culvert\1.62419-001-GPE.dgn 12/22/19 PM 1/3/2011