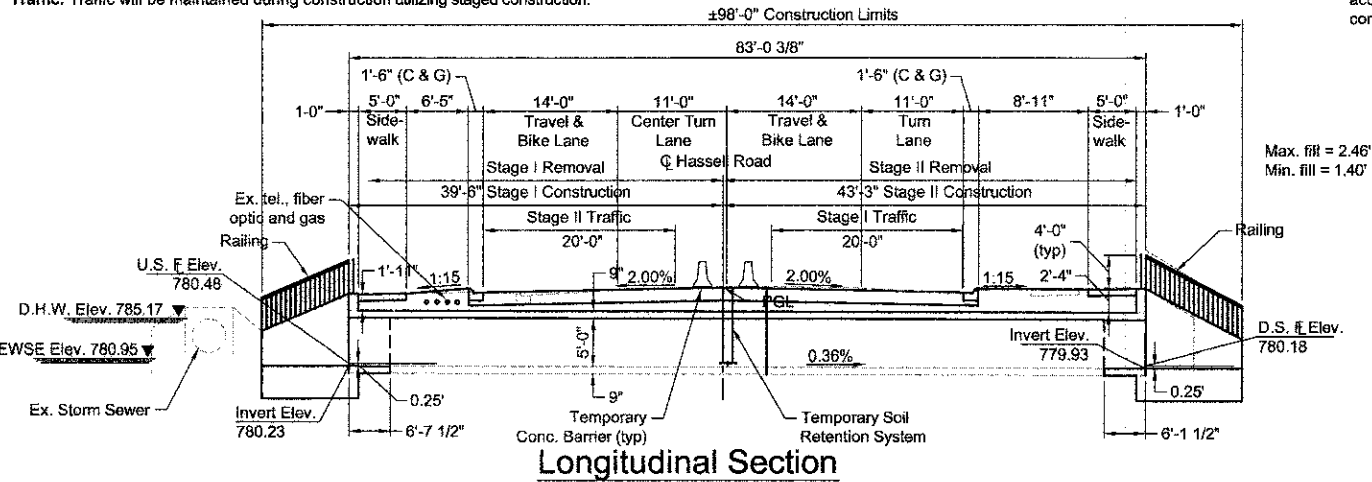


Benchmark: Chiseled square at the northwest corner of headwall, Elevation 787.83 feet. Datum = NGVD29

Existing Structure: SN 016-6328 built IN 1970 as a triple 10-ft x 5-ft reinforced concrete box culvert, approximate out-to-out width of 33'-4", and approximately 83'-0" in length.

Traffic: Traffic will be maintained during construction utilizing staged construction.



Longitudinal Section

Note: Dimensions at right angles to Centerline of Roadway unless otherwise noted.

General Notes

1. Diversion of stream flow during the removal of the existing culvert and the construction of the proposed culvert and all required erosion control measures shall be considered as included in concrete box culverts and no additional compensation will be allowed.
2. Existing culvert cells shall be cleared of debris with the debris being disposed of in accordance with Article 202.03. This shall be included in concrete removal and no additional compensation will be allowed.

Sheet No.

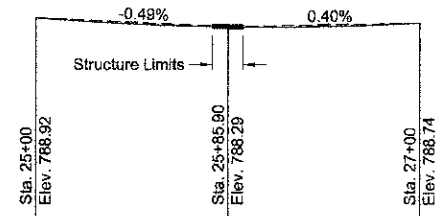
- CA1 General Plan & Longitudinal Section
- CA2 Stage Construction Details
- CA3 Concrete Removal Details
- CA4 North End Section
- CA5 South End Section
- CA6 Top Slab Details
- CA7 Decorative Steel Railing Details
- CA8 Bar Splicer Assembly
- CA9 Soil Boring Logs

Index of Sheets

Description

Total Bill of Material

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	114.8
BRIDGE RAIL REMOVAL	FOOT	108
REINFORCEMENT BARS	POUND	7,310
REINFORCEMENT BARS, EPOXY COATED	POUND	23,910
NAME PLATES	EACH	1
EXPANSION BOLTS 3/4 INCH	EACH	82
CONCRETE BOX CULVERTS	CU YD	123
CONCRETE COLLAR	CU YD	1
STORM SEWER REMOVAL 24"	FOOT	4
STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	6
DECORATIVE STEEL RAILING	FOOT	105
FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	273
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,277

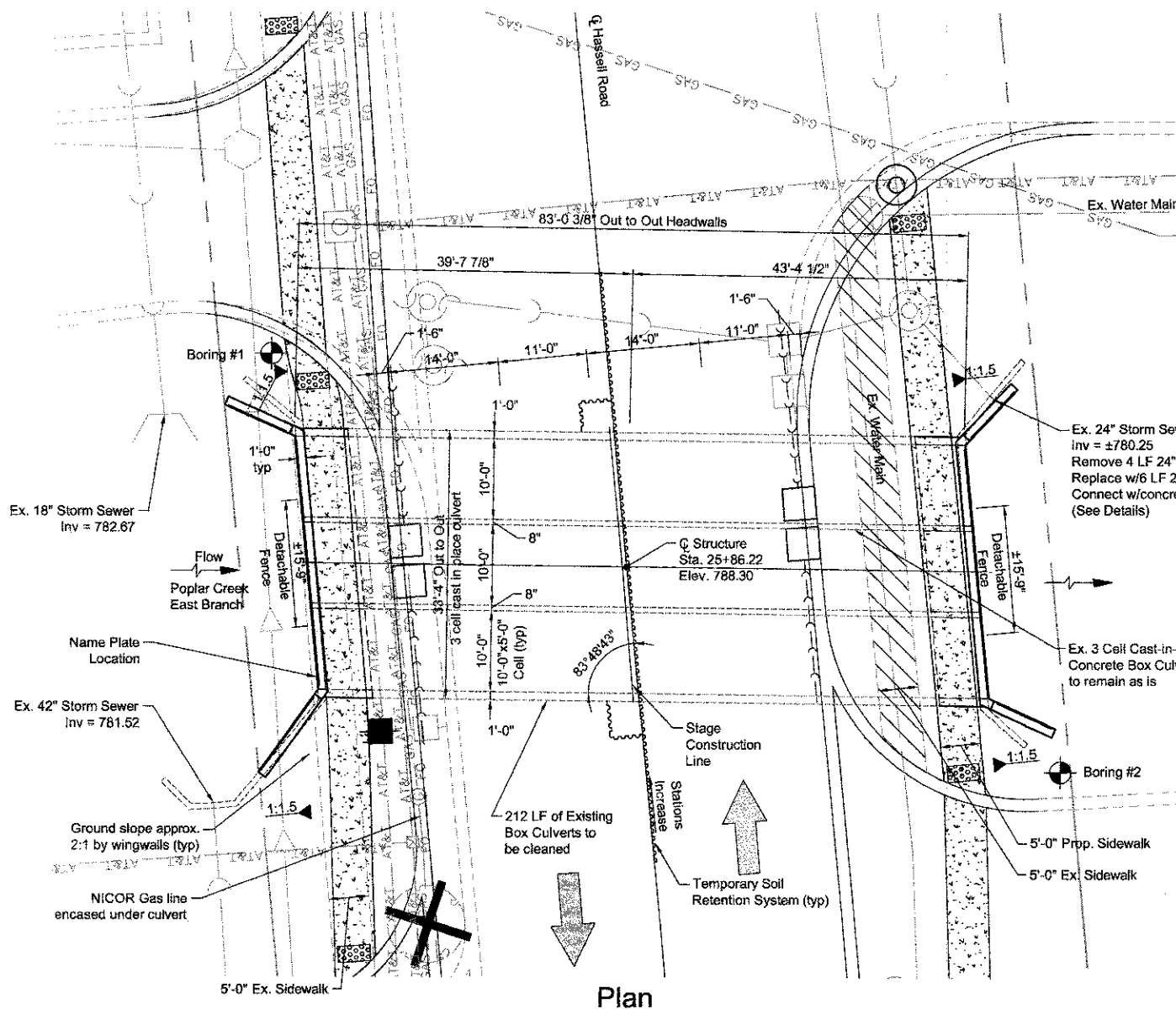


Profile Grade

(along C roadway)

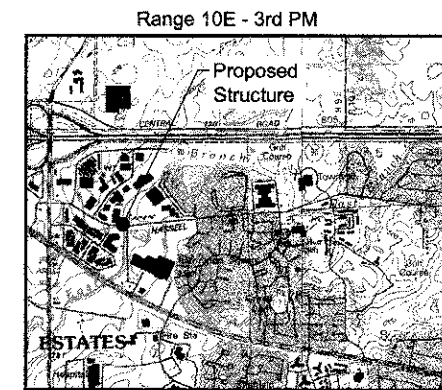
Waterway Information Table

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft.)		Natural H.W.E.	Created Head (ft.)		Headwater Elev.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
	10	215.00	126.0	126.0	784.43	0.00	0.00	784.43	784.43
Design	30	305.00	148.2	148.2	785.17	0.00	0.00	785.17	785.17
	50	340.00	150.0	150.0	785.51	0.04	0.04	785.55	785.55
Base	100	400.00	150.0	150.0	785.99	0.08	0.08	786.07	786.07
Max Calc.	500	555.00	150.0	150.0	786.61	0.21	0.21	786.82	786.82



Plan

Note: Dimensions at right angles to Centerline of Roadway unless otherwise depicted.



Location Sketch

Loading HS20-44
Allow 50#/sq-ft for future wearing surface.

Design Specifications
2002 AASHTO Standard Specifications for Highway Bridges

Design Stresses
Field Units (New Construction)
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

CIVILTECH ENGINEERS, INC.
GREGORY J. HATLESTAD, S.E.



EXP. 11/30/2014
DATE 12/14/2012

I certify that to the best knowledge, information and belief, this box culvert design is structurally adequate for the design loading shown on the shown plans. The design is an economical one for the style of the structure and complies with the requirements of the 2002 AASHTO Standard Specifications.

Station 25+86
Built 201 by
Hoffman Estates
Loading HS20
Structure No. 016-6328

Name Plate
See Std. 515001

General Plan & Longitudinal Section
Hassell Road over
Poplar Creek East Branch
F.A.U.Rt. 1100
Section 11-00087-00-FP
Cook County
Station 25+86.22
Structure No. 016-6328
(Existing)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Hassell Road STP Project
Structure No. 016-6328

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1100	11-00087-00-FP	Cook	164	99

SCALE: 1" = 10' SHEET NO. CA1 OF CA9 SHEETS STA. TO STA.

CONTRACT NO. 63770 ILLINOIS FED. AID PROJECT CMM 9003(757)

PLAN	DESIGNED	DATE
	DRAWN	
	CHECKED	
	DATE	

PROFILE	DESIGNED	DATE
	DRAWN	
	CHECKED	
	DATE	