

Bench Mark: NNW bolt on bolt circle on fire hydrant 23.7' Lt. Sta. 1165+03, Elev. 572.80

Existing Structure: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 595	1-3-K	Rock Island	476	274
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1
7 SHEETS

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.

Exposed edges shall be beveled 3/4" unless otherwise noted.

It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the engineer and the cost shall be included in the unit bid price of "Concrete Box Culverts".

All construction joints shall be bonded.

For backfilling and embankment see standard specifications.

Precast culvert alternate is not allowed.

At least 6'-9" of barrel shall be poured monolithically with wingwalls.

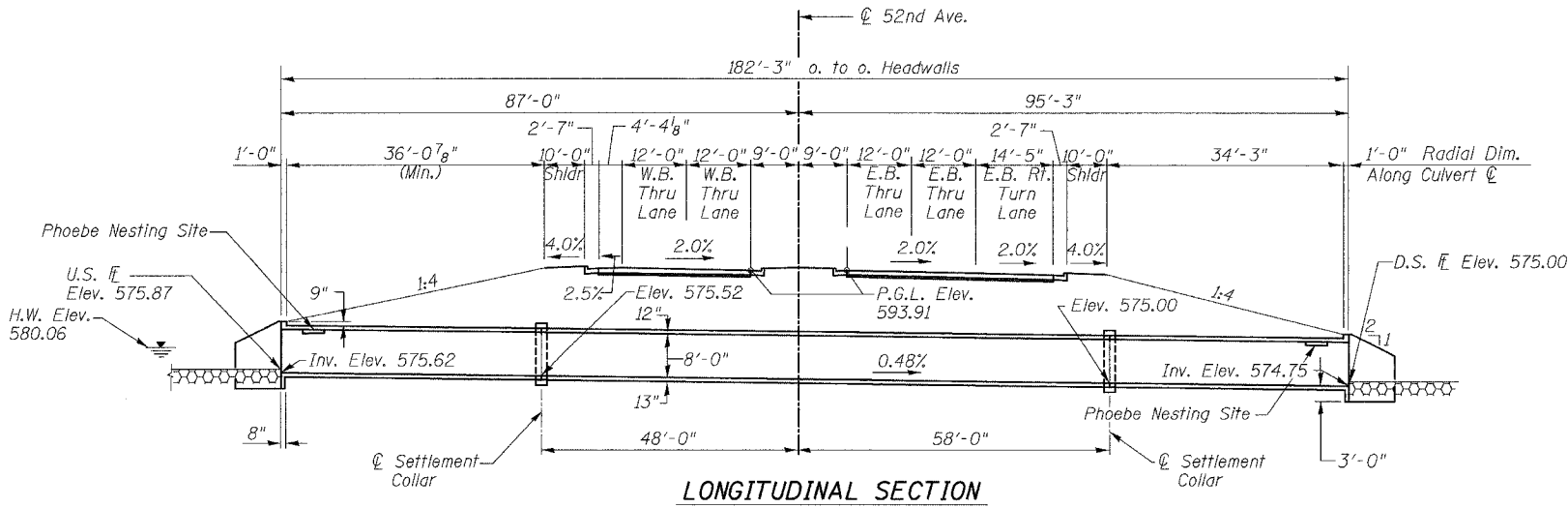
Bars indicated thus 12x4-#5 indicates 12 lines of #5 bars with 4 lengths per line.

INDEX OF SHEETS

- General Plan
- Culvert Details and Section
- Settlement Collar Details
- Wingwall Reinforcement Details
- Boring Logs

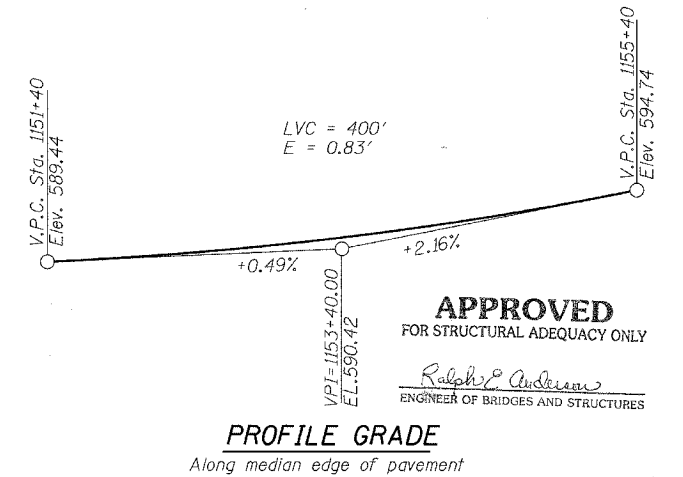
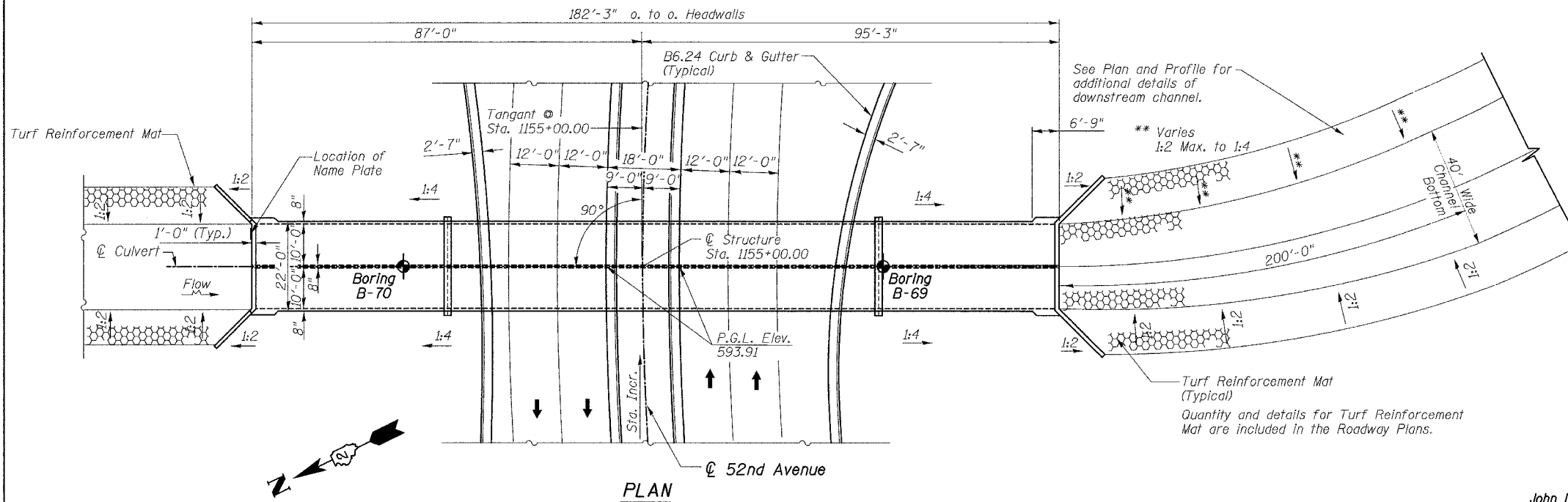
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Box Culverts	Cu. Yd.	480.9
Reinforcement Bars	Pound	76,280
Name Plates	Each	1



STATION 1155+00
BUILT BY
STATE OF ILLINOIS
F.A.U. RT. 5822 SEC. 1-3
LOADING HS20 & ALT.
STR. NO. 081-2035

NAME PLATE
See Std. 515001



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph J. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PROFILE GRADE
Along median edge of pavement

WATERWAY INFORMATION

Drainage Area = 0.97 Sq. Mi. Low Grade Elev. 590.00 ft. Sta. 1151+75 (52nd Ave.)

Flood	Freq. Yr.	Q C.F.S.	Exist. Prop.	Opening Sq. Ft.	Nat. H.W.E.	Head-Ft. Exist. Prop.	Headwater EL. Exist. Prop.
Design	10	775	N.A.	68.0	579.02	N.A.	1.96
Base	100	1462	N.A.	97.2	580.48	N.A.	3.48
Overtopping	260	1832	N.A.	104.0	580.82	N.A.	5.40
Max. Calc.						N.A.	5.86

10 - Year Velocity through Existing Structure = NA
10 - Year Velocity through Proposed Structure = 11.84 fps

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

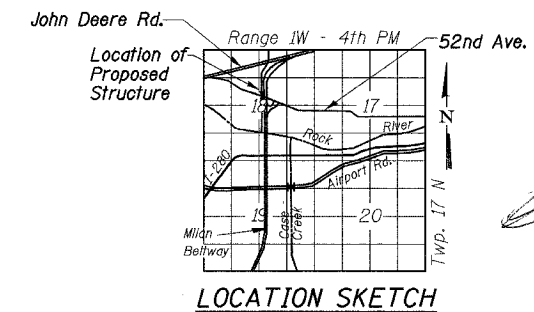
DESIGN STRESSES

FIELD UNITS

f_c = 3,500 psi
f_y = 60,000 psi (Reinf.)

CURVE DATA

PI Sta. 1153+04.57
Δ = 69°15'02" (RT)
D = 7°45'00"
R = 739.30'
T = 510.49'
L = 893.55'
E = 159.12'
SE = 0.02 FT./FT.
P.C. Sta. 1147+94.08
P.T. Sta. 1156+87.63
S.E. Transition Begins Sta. 1156+37.63



LOCATION SKETCH

GENERAL PLAN

52ND AVENUE EXTENSION
OVER AN UNNAMED STREAM
FAU ROUTE 5822 SECTION 1-3
ROCK ISLAND COUNTY
STATION 1155+00
STRUCTURE NO. 081-2035

DESIGNED	-	JDC
CHECKED	-	BDF
DRAWN	-	RAP
CHECKED	-	BDF



Brian D. Frickenstein
11/30/04