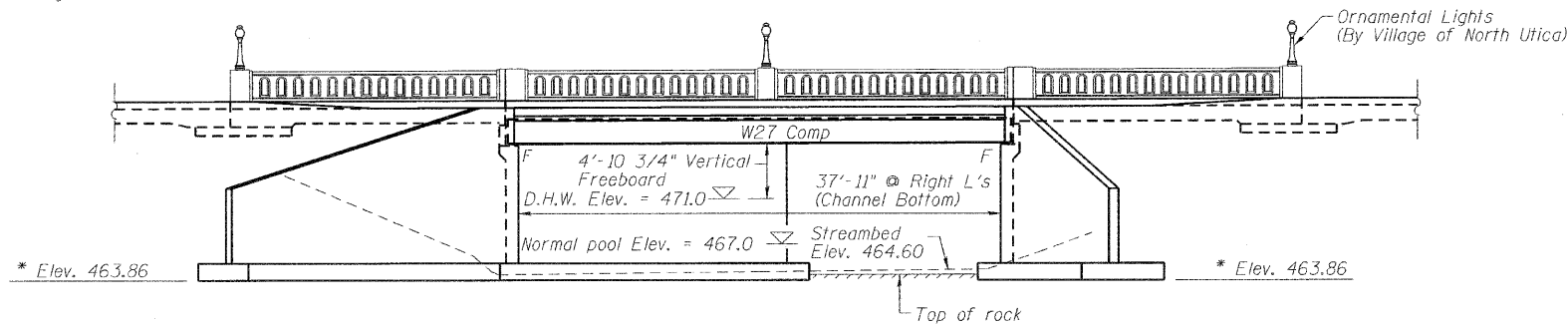


Bench Mark:
Chiseled "X" on west bolt of fire hydrant at west side of IL Route 178, south side of Canal Bridge Elev. 480.15

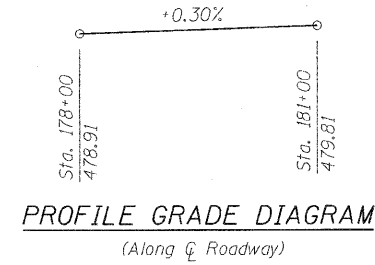
Existing Structure: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

* Footing to be placed at the elevation shown or 6" into rock, whichever is deeper.



PROFILE GRADE DIAGRAM

(Along Centerline Roadway)

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Notes & Bill of Material
- 3-4 Top of Slab Elevations
- 5 Top of North Approach Slab Elevations
- 6 Top of South Approach Slab Elevations
- 7 Superstructure
- 8-9 Concrete Bridge Railing, Sidewalk Mounted
- 10-11 Bridge Approach Slab Details
- 12 Framing Plan
- 13 Beam Details
- 14 North Abutment
- 15 South Abutment
- 16 Abutment Details
- 17 Cantilever Forming Brackets for Superstructures With W27 Beams and Smaller Bar Splicer Assembly Details
- 18 Boring Logs
- 19 Rock Core Logs

WATERWAY INFORMATION					
DRAINAGE AREA= 34.7 mi. ² LOW GRADE ELEV.= 478.9 @ STA. 178+00					
FLOOD	0	OPENING ft. ²	NAT.	HEAD - ft.	HEADWATER EL. - ft.
	C.F.S.	PROP.	H.W.E.	PROP.	PROP.*
DESIGN	**	242	471.0	0.0	471.0

- * Headwater Elev. = water surface Elev. @ upstream face of proposed structure.
- ** Regular waterway analysis does not apply in this case.

DESIGN SCOUR ELEVATION TABLE		
DESIGN SCOUR ELEVATION (ft)	N. ABUTMENT	S. ABUTMENT
	464.40	464.40

DESIGN SPECIFICATIONS

2007 AASHTO LRFD
Bridge Design Specifications
With 2008 Interims

LOADING HL-93

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

DESIGN STRESSES

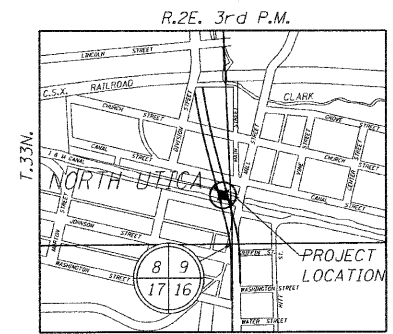
Field Units

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (Struct. Steel) (M270 Grade 50)
fy = 36,000 psi (Struct. Steel) (M270 Grade 36)

Allowable Bearing Pressure = 6000 psf

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. S₀₁ = 0.04g
Design Spectral Acceleration at 0.2 sec. S₀₅ = 0.11g
Soil Site Class = B



LOCATION SKETCH

GENERAL PLAN & ELEVATION

IL ROUTE 178 RELOCATED OVER I & M CANAL

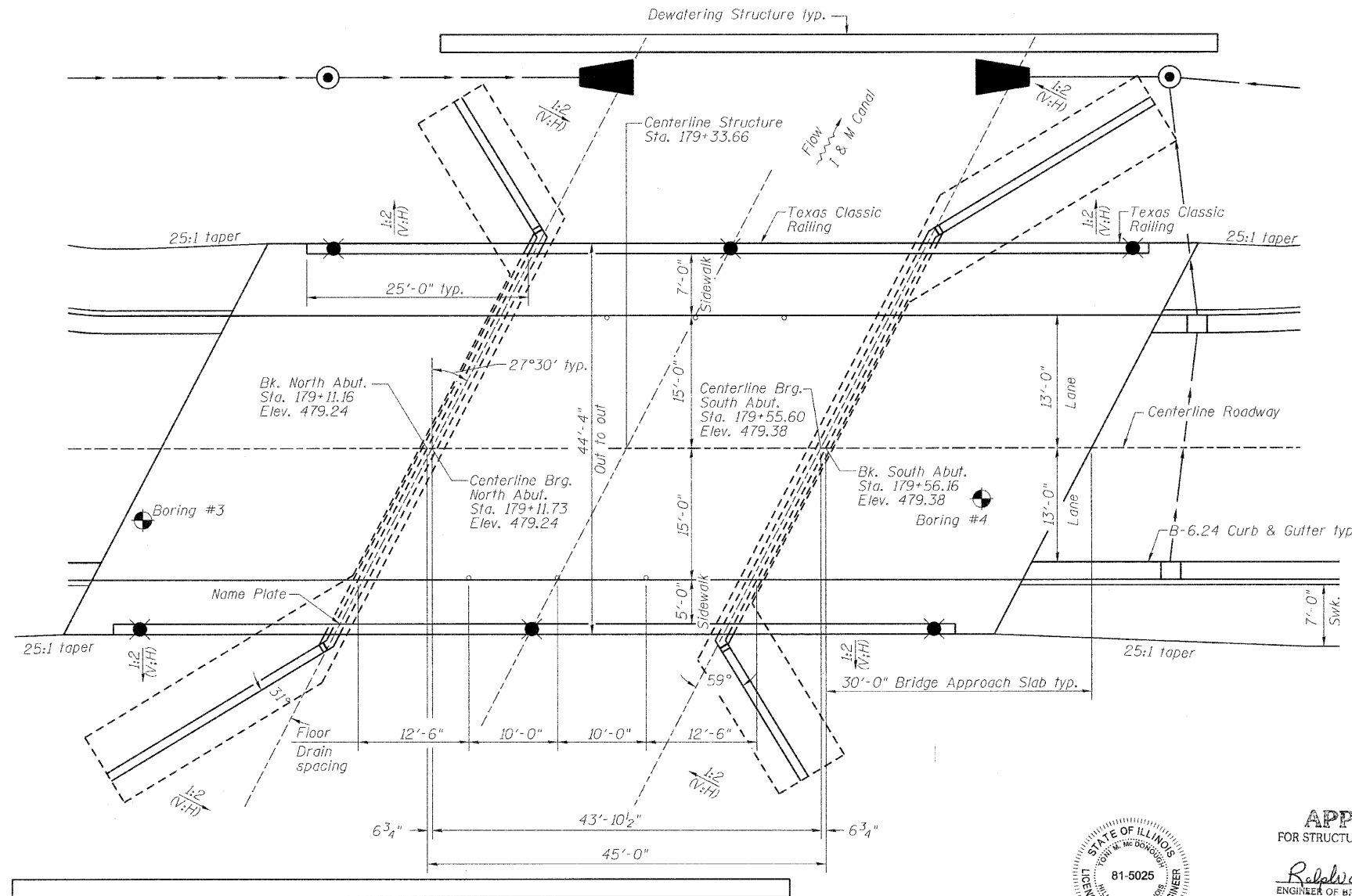
PUBLIC WATER

F.A.S. ROUTE 1279 SECTION 6R, B

LASALLE COUNTY

STATION 179+33.66

STRUCTURE NO. 050-0250



PLAN

DESIGNED	CMF
CHECKED	TMM
DRAWN	RNH
CHECKED	TMM



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES

Toni M. McDonough
Licensed Structural Engineer
State of Illinois No. 81-5025
License Expires 11/30/10
Date: 8-5-2010

McDonough-Whitlow, P.C.
Consulting Engineers & Land Surveyors
138 East Wood Street
Hillsboro, IL 62049
Phone: 217.532.9233
Fax: 217.532.6300
PROFESSIONAL DESIGN NO. 184-002754

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1279	6R, B	LASALLE	190	103
20 SHEETS	CONTRACT NO.			66547	
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				