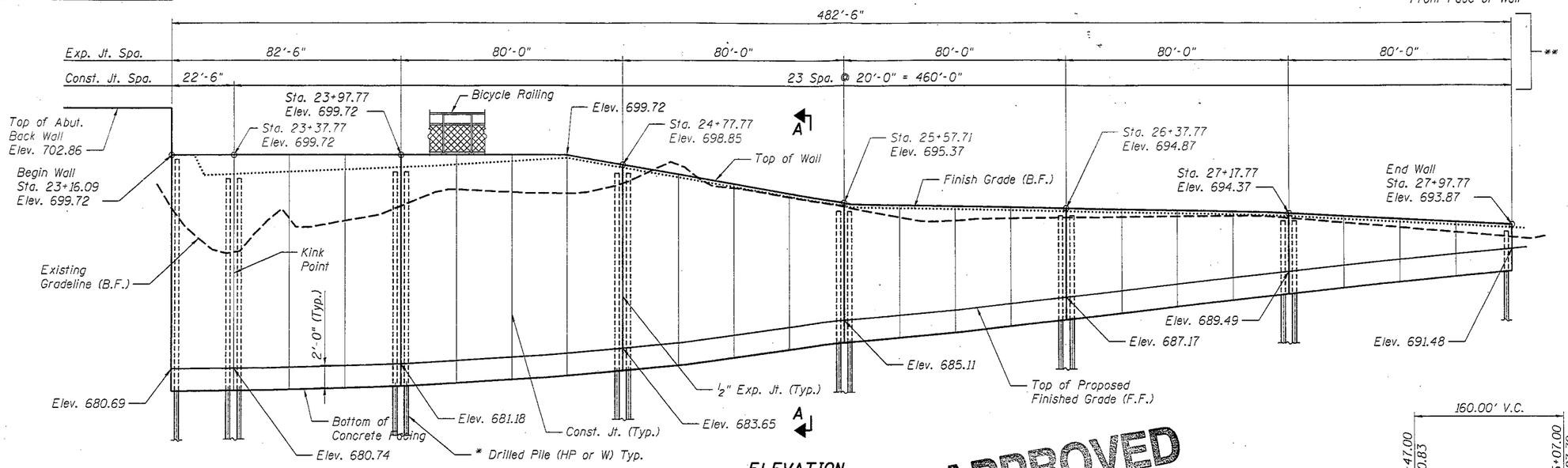
BENCH MARK:
TMB "A" - Elev. 696.20, NW Bolt of Old billbord Foundation +/-50 ft. South of Rte. 132 C.L. and +/-50 ft. West of Pine Grove Ave.

EXISTING STRUCTURE: None

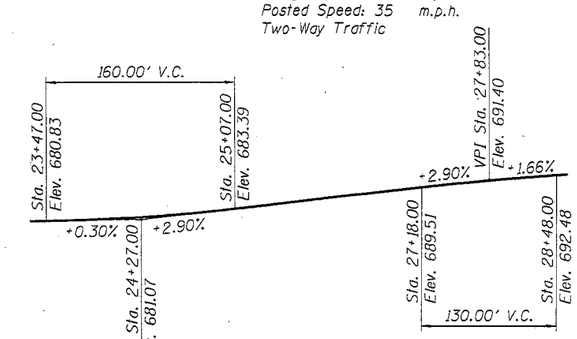


* Pile Section, Spacing, Tip elevation and Shaft diameter to be determined during final design

ELEVATION
(Looking at F.F.)

APPROVED
JUL 30 2013
AS A BASIS FOR PREPARATION OF DETAILED PLANS

PROP. CURVE 132WB-3
PI STA. = 24+67.55
Δ = 3° 04' 43" (RT)
D = 0° 57' 18"
R = 6,000.00'
T = 161.23'
L = 322.39'
E = 2.17'
P.C. STA. = 23+06.31
P.T. STA. = 26+28.70



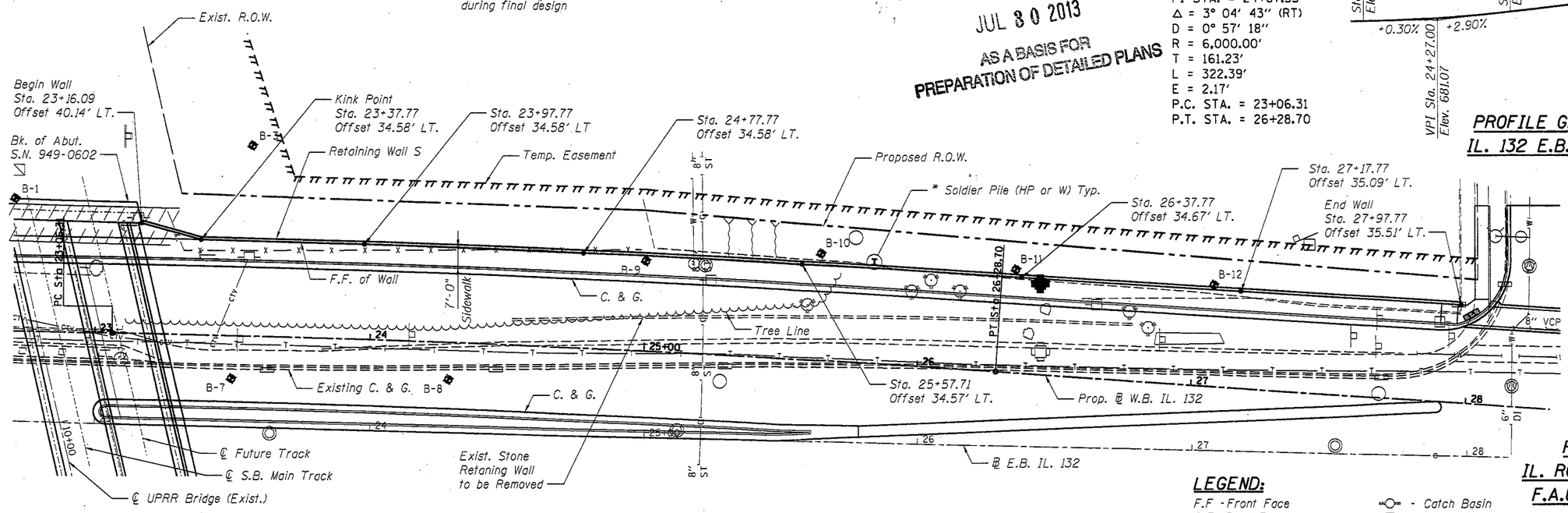
PROFILE GRADE
IL. 132 E.B. & W.B.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design, 6th Edition

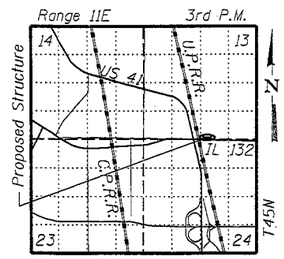
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel M270 Grade 36)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.054g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.092g
Soil Site Class = C

HIGHWAY CLASSIFICATION
F.A.U. Rte. 1218 - IL Rte. 132
Functional Class: Prinipal Arterial
ADT: 25,200 (2012) 33,940 (2032)
ADTT: 685 (2012) 923 (2032)
DHV: 2,330
Design Speed: 40 m.p.h.
Posted Speed: 35 m.p.h.
Two-Way Traffic



PLAN



LOCATION SKETCH

NOTE:
1. Offsets are given from Baseline W.B. IL. 132 to F.F. of Wall.

LEGEND:
F.F - Front Face
B.F. - Back Face
B-1 - Borehole B-1
- Tree
- Bush
- Evegreen Tree
- Manhole
- Catch Basin
- Power Pole
- Hand Hole
- Fire Hydrant
- Traffic Signal
- Light Pole
- Sign

GENERAL PLAN
RETAINING WALL S
IL. ROUTE 132 (GRAND AVE.)
F.A.U. 1218 - SEC. 125X-N
LAKE COUNTY
STATION 22+99.62 TO STATION 27+96.15
STRUCTURE NO. 049-W047

HOH
HARRY D. HEFTER-ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
55 East Jackson Blvd.
Chicago, Illinois 60604
312/346-8131

FILE NAME =	USER NAME = $USER$	DESIGNED - MMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 132 W.B. RETAINING WALL S GENERAL PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		CHECKED - DNB	REVISED -			1218	125X-N	LAKE	
	PLOT SCALE = 43.3765 '/ IN.	DRAWN - R.VEJAR	REVISED -					CONTRACT NO.	
	PLOT DATE = 6/27/2013	CHECKED - DNB	REVISED -		SHEET NO. 1 OF 2 SHEETS			ILLINOIS FED. AID PROJECT	

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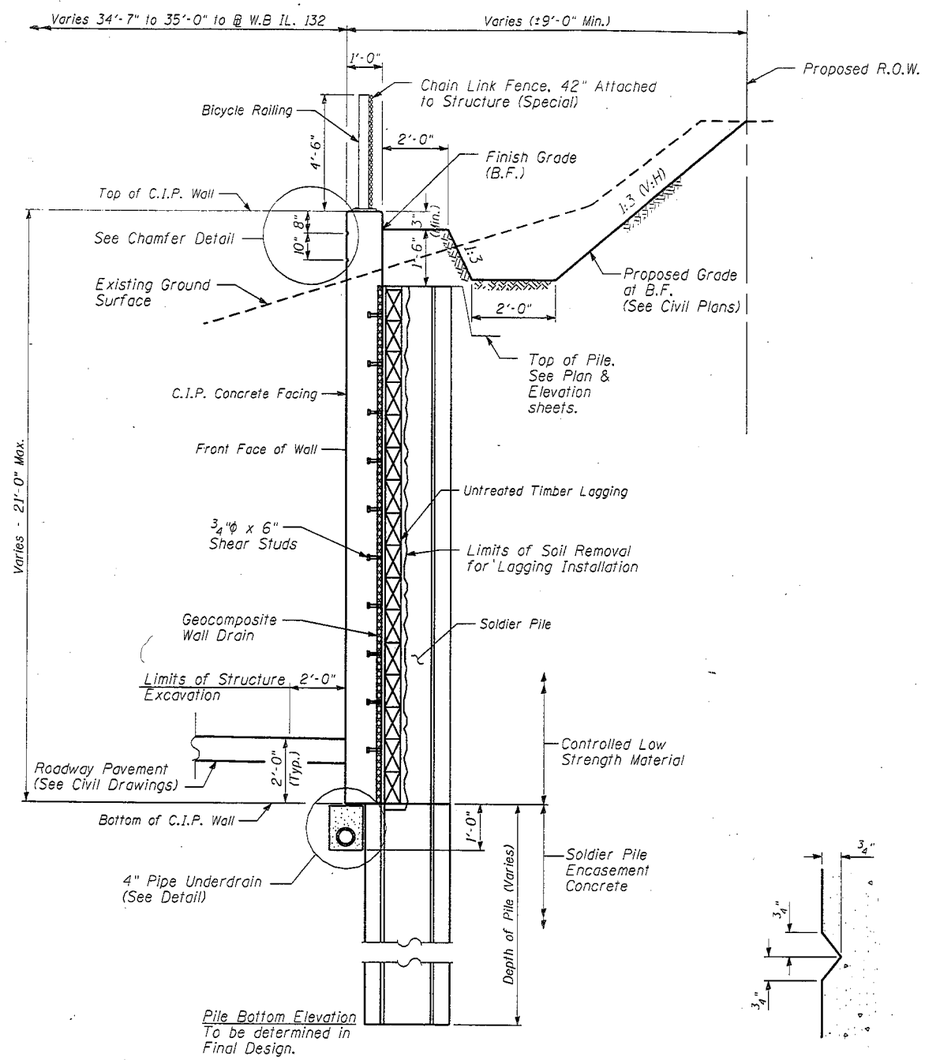
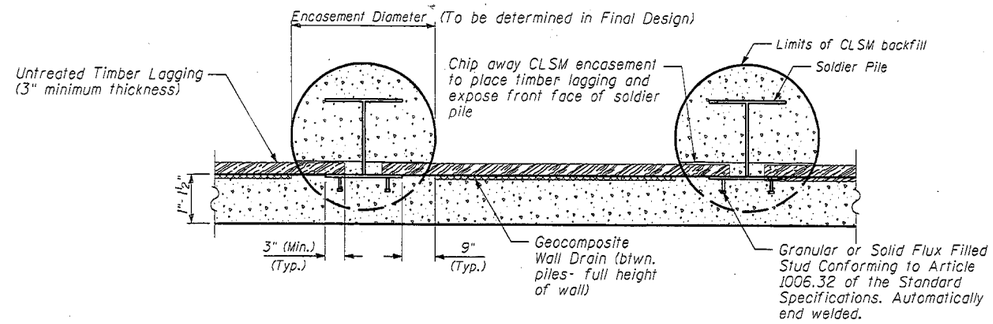


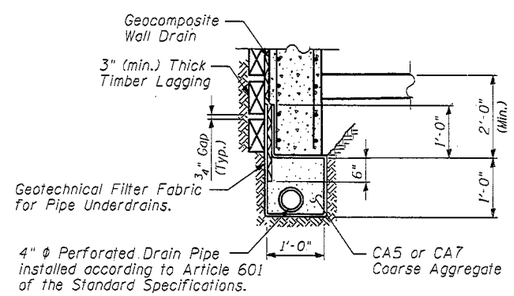
SECTION A-A

CHAMFER DETAIL

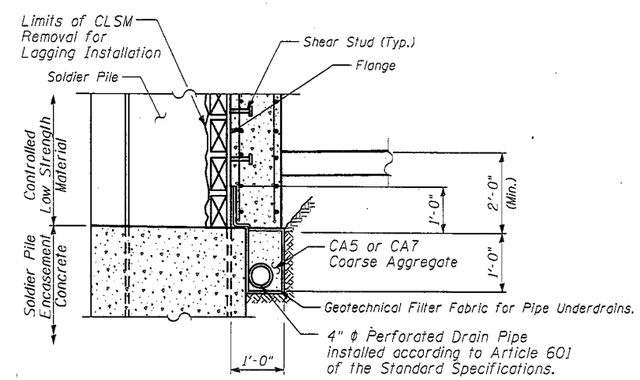
Cost of Chamfer included with "Concrete Structures"



TYPICAL SECTION THRU DRILLED SOLDIER PILE WALL



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



PIPE UNDERDRAIN DETAIL AT SOLDIER PILE

RETAINING WALL SECTIONS AND DETAILS
RETAINING WALL S
IL. ROUTE 132 (GRAND AVE.)
F.A.U. 1218 - SEC. 125X-N
LAKE COUNTY
STATION 22+99.62 TO STATION 27+96.15
STRUCTURE NO. 049-W047

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HOH — HARRY O. HEFTER-ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS — 55 East Jackson Blvd. Chicago, Illinois 60604 312/346-8131

FILE NAME =	USER NAME = $USER$	DESIGNED - MMH	REVISED -
		CHECKED - DNB	REVISED -
	PLOT SCALE = 5:5.2647 ':' / IN.	DRAWN - R.VEJAR	REVISED -
	PLOT DATE = 6/26/2013	CHECKED - DNB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNION PACIFIC RAILROAD BRIDGE
RETAINING WALL SECTIONS AND DETAILS
SHEET NO. 2 OF 2 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1218	125X-N	LAKE		
		CONTRACT NO. ____		
		ILLINOIS FED. AID PROJECT		