

Bench Mark: IDOT Monument Number C0062-1B, Sta. 488+40, Elev. 870.47, 47.5' Rt.
Existing Structure: None

INDEX OF SHEETS

- S1 - General Plan & Elevation
- S2 - Retaining Wall Details
- S3 - Soil Borings

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Reinforcement bars designated thus 7x3-#5, etc indicates 7 lines of bars with 3 lengths per line.
Concrete cap and facing shall be constructed after backfill is in place.

DESIGN SPECIFICATIONS

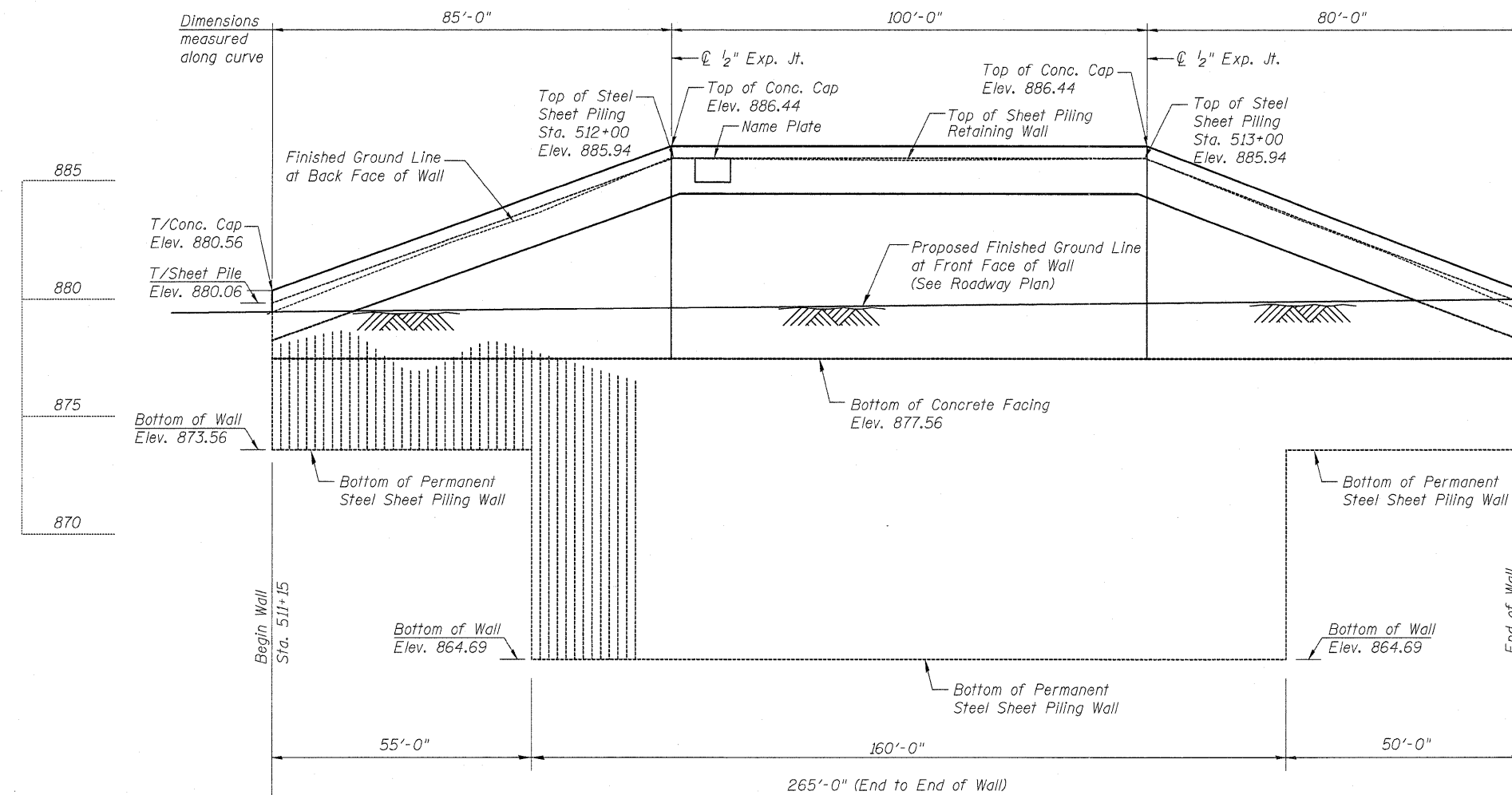
2002 AASHTO Standard Specifications, 17th Edition.

DESIGN STRESSES

Design Soil Equivalent Fluid Pressure = 40 pcf
fy = 38,500 psi (Steel Sheet Pile)
fy = 60,000 psi (Reinforcement)
f'c = 3,500 psi

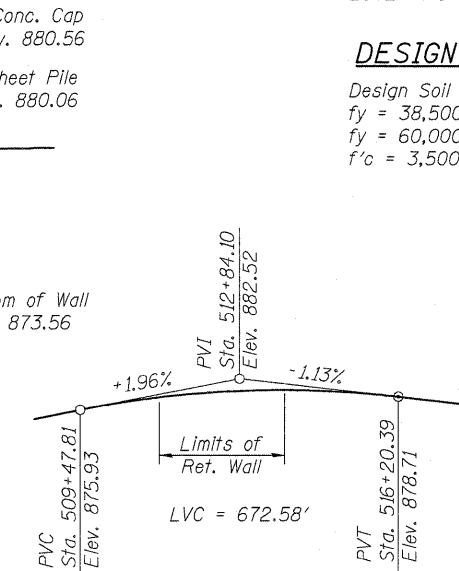
TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	39	#5	30'-6"	—
h2(E)	45	#5	35'-5"	—
h3(E)	39	#5	28'-10"	—
s1(E)	267	#4	4'-9"	□
v1(E)	43	#5	11'-2"	—
v2(E)	100	#5	8'-6"	—
v3(E)	40	#5	11'-2"	—
Concrete Structures	Cu.Yd.		78.5	
Reinforcement Bars Epoxy Coated	Pound		6,780	
Permanent Steel Sheet Piling	Sq.Ft.		4,215	
Stud Shear Connectors	Each		942	
Name Plates	Each		1	



ELEVATION
(Front Face View)

Note:
It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.

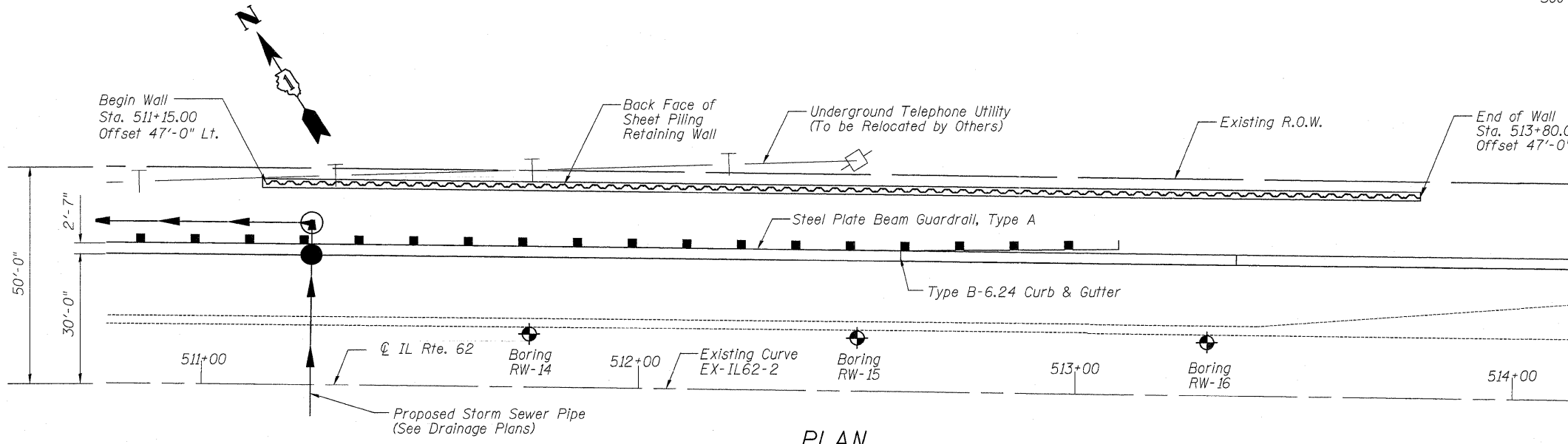


PROFILE GRADE
(Along & IL 62)

STA. 511+15 TO STA. 513+80 (LT)
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 339
SEC. 116 Y-1-R-1
STRUCTURE NO. 016-W995

NAME PLATE
See Std. 515001

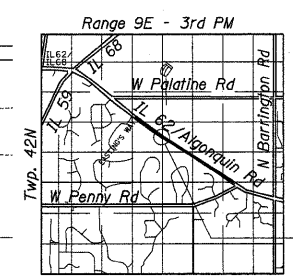
Notes:
Permanent Steel Sheet Piling Z Shape
Minimum Effective Section Modulus = 15.3 in.³/ft. wall
Work this sheet with Sheet No. S2 of S3 Sheets.



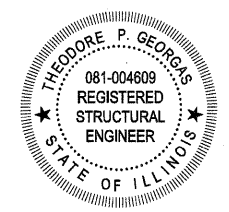
PLAN

CURVE EX-IL62-2

Δ = 1° 32' 54" (RT)
D = 0° 06' 00"
R = 57,351.19'
T = 774.99'
L = 1,549.89'
E = 5.24'
P.C. Sta. = 505+12.36
P.T. Sta. = 520+62.25
P.I. Sta. = 512+87.35



LOCATION SKETCH



Theodore P. Georgas
Licensed Structural Engineer
State of Illinois 081-4609
Expires 11/30/2012
Date: 6-30-2011

RETAINING WALL NO. 2
STA. 511+15 TO STA. 513+80



USER NAME =	DESIGNED - JPM	REVISED -
PLOT SCALE =	CHECKED - JXH	REVISED -
PLOT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-W995

SHEET NO. S1 OF S3 SHEETS

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 66
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	