

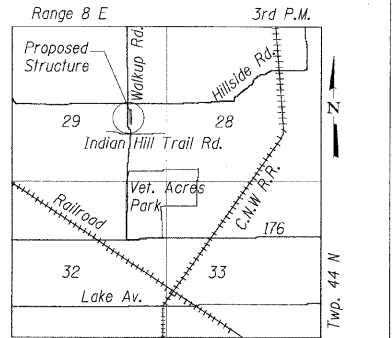
BENCHMARK

Southeast flange bolt of fire hydrant located at southwest corner of Walkup Road & Hillside Road. El. 918.014

EXISTING STRUCTURE

None.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-01-FP	MCHENRY	236	154
STA. 92+30.00 TO STA. 95+10.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63266				



LOCATION SKETCH

DESIGN SPECIFICATIONS

AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002.

DESIGN STRESSES

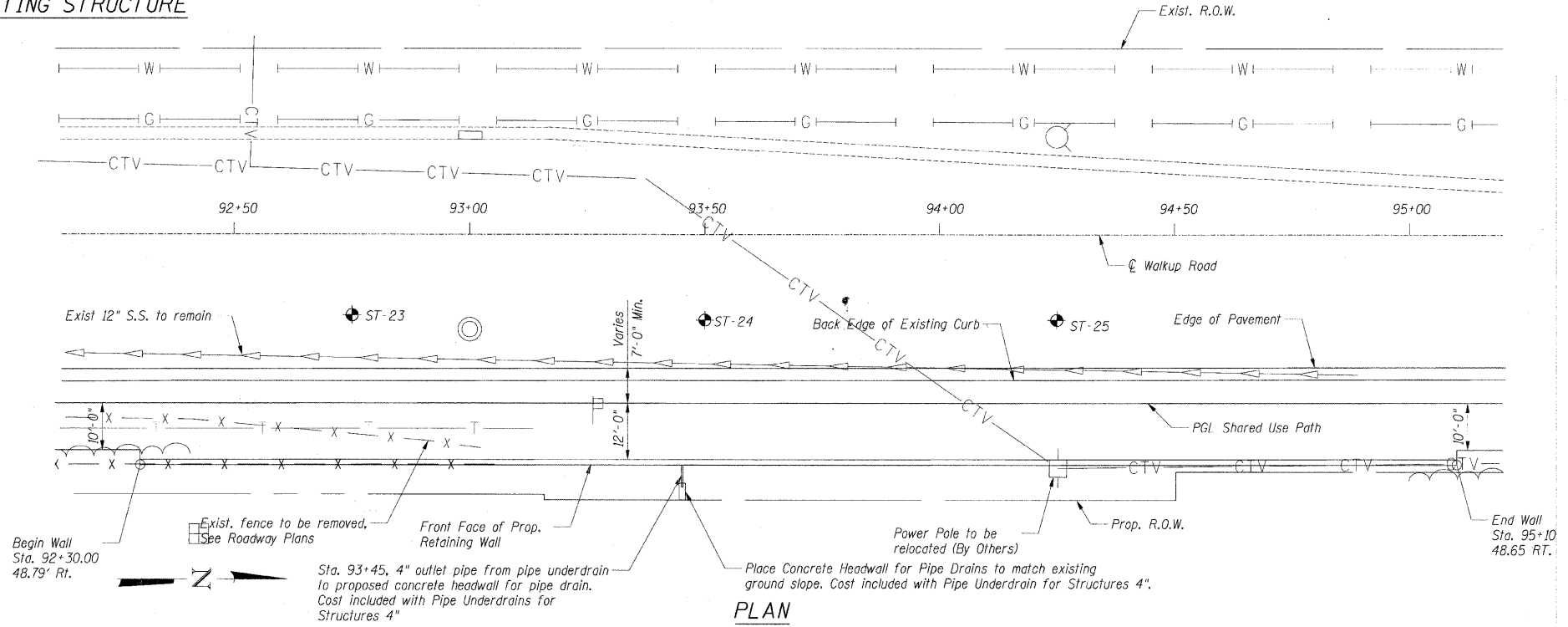
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (reinforcement)
 fy = 50,000 psi (AASHTO M270 Gr. 50)
 fb = 1,000 psi (Timber Lagging)

GENERAL NOTES

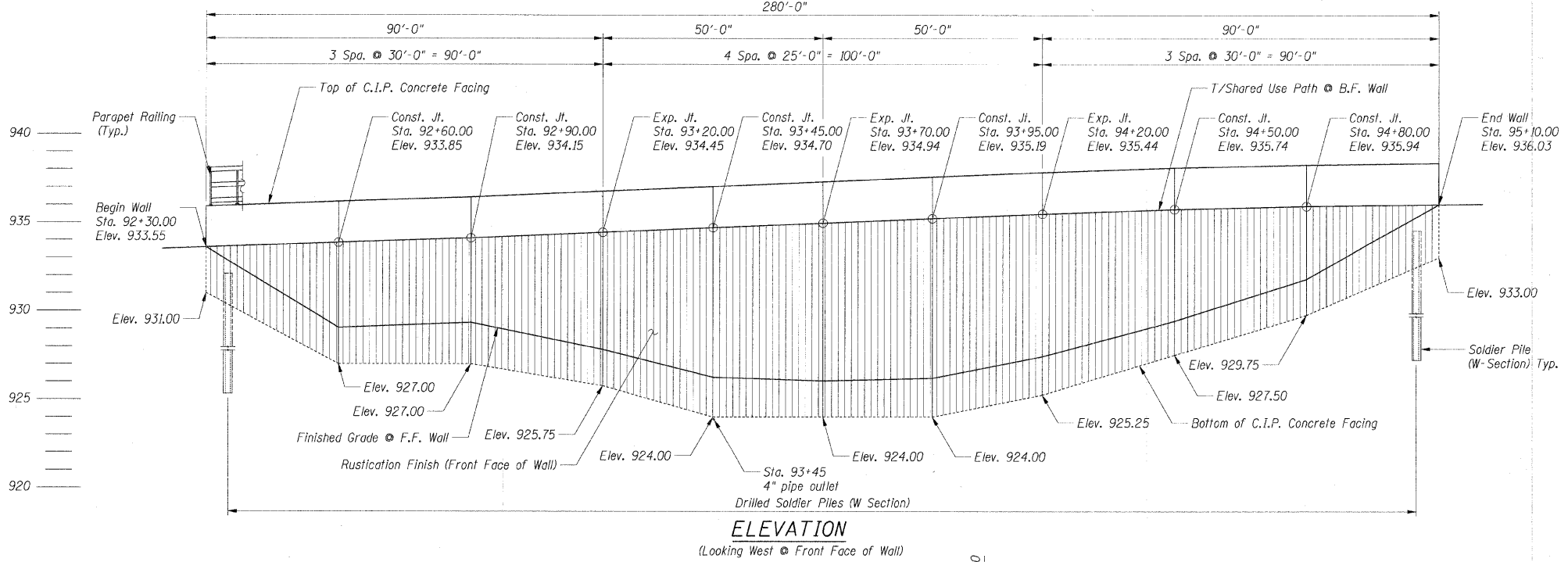
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
- Reinforcement bars designated "(E)" shall be epoxy coated.
- The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
- The clear cover for reinforcement bars to the surface of concrete shall be 2" unless otherwise shown.

INDEX OF SHEETS:

SB-1	General Plan and Elevation
SB-2	Plan and Elevation I
SB-3	Plan and Elevation II
SB-4	Sections and Details
SB-5	Schedules and Details
SB-6	Parapet Railing Details
SB-7	Soil Boring Logs

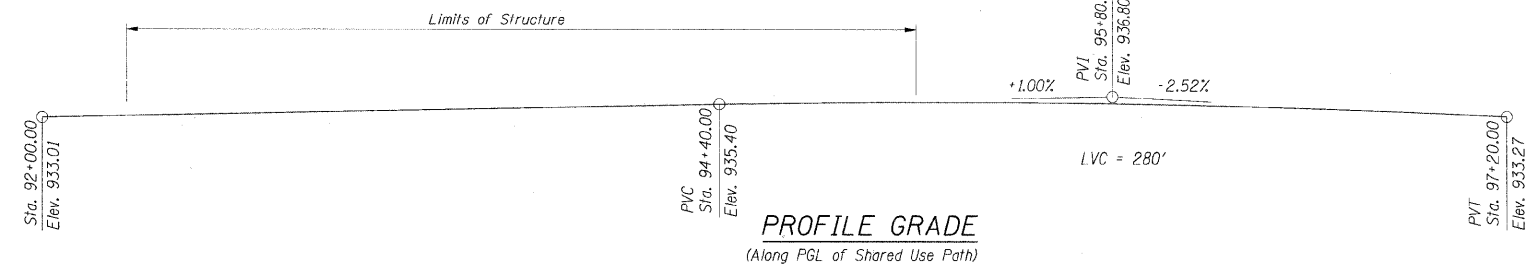


PLAN



ELEVATION

(Looking West @ Front Face of Wall)



PROFILE GRADE

(Along PGL of Shared Use Path)

LEGEND

- W— Exist. Water Main
- T— Exist. Telephone
- G— Exist. Gas Main
- CTV— Exist. Cable TV
- >— Exist. Drainage to Remain
- ⊕ ST-23 Soil Boring
- Exist. Power Pole
- |— Exist. Tree Line

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	198
Structure Excavation	Cu Yd	82
Concrete Structures	Cu Yd	121.9
Protective Coat	Sq Yd	107
Rustication Finish	Sq Ft	2,274
Stud Shear Connectors	Each	544
Untreated Timber Lagging	Sq Ft	1,733
Reinforcement Bars, Epoxy Coated	Pound	15,080
Parapet Railing	Foot	280
Furnishing Soldier Piles (W Section)	Foot	879
Geocomposite Wall Drain	Sq Yd	159
Pipe Underdrains for Structures 4"	Foot	288
Drilling and Setting Soldier Piles (in Soil)	Cu Ft	4,080

Notes:

- Offsets are measured from C of Walkup road to the front face of the wall.
- The wall is to be built along straight lines between construction joints.
- Horizontal dimensions are measured along front face of wall.

SHT. SB-1

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085
 SECTION 00-00246-01-FP
 STATION 92+30.00 TO 95+10.00
 RETAINING WALL

GENERAL PLAN AND ELEVATION

SCALE: _____ DRAWN BY: MKD
 DATE: 08/17/09 CHECKED BY: TCG

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312/616-0000

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