F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	397
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62303 *(2021-922 PT2 ETC 2324.6-1P) R-11

Benchmark: BM No. 3528
"+" Cut on Northwesterly bolt of Fire Hydrant at the Northwest corner of 45th St. and Wentworth Ave.
El. 16.20

Salvage: None

All elevations are based on the Chicago City Datum (C.C.D.)

DESIGN SPECIFICATIONS

2002 AASHTO

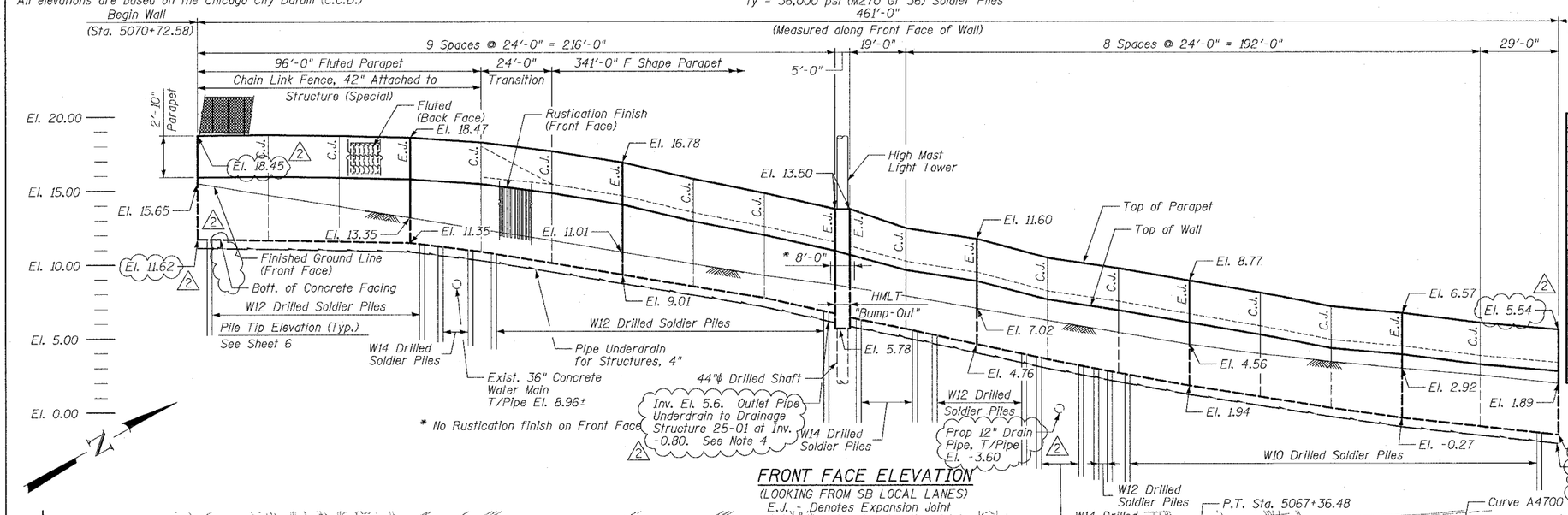
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Gr 36) Soldier Piles

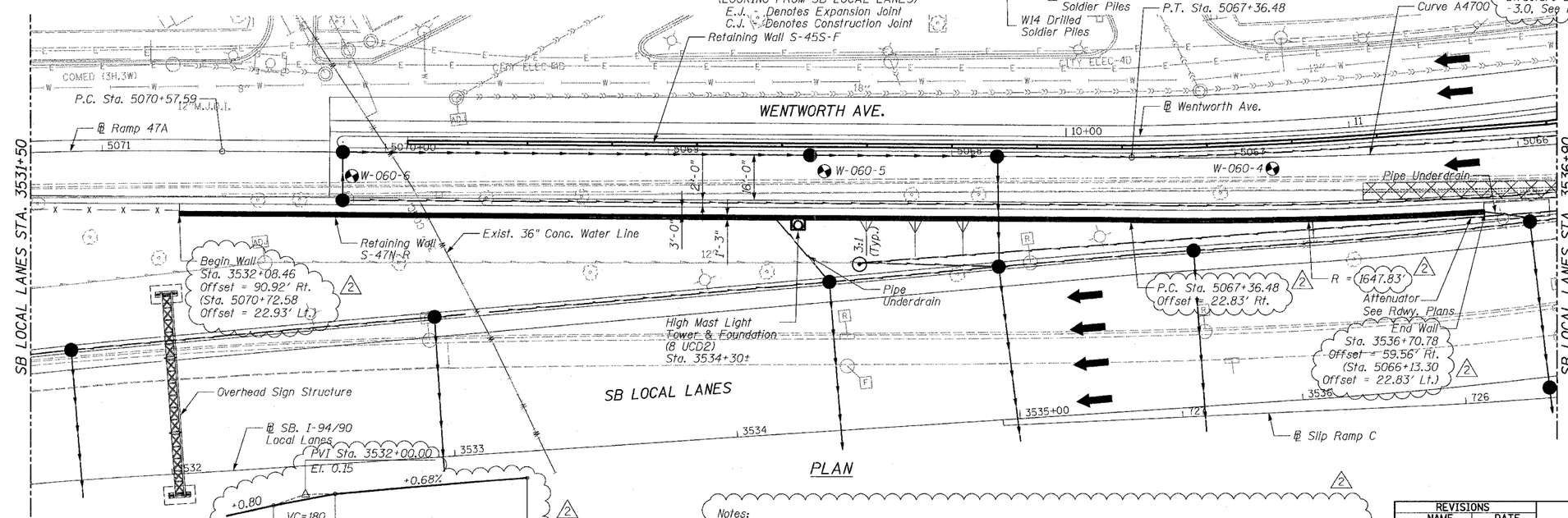
LOADING

2002 AASHTO

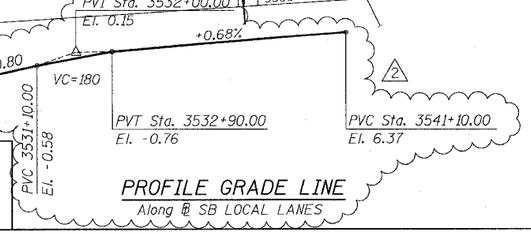


FRONT FACE ELEVATION

(LOOKING FROM SB LOCAL LANES)
E.J. Denotes Expansion Joint
C.J. Denotes Construction Joint



PLAN



PROFILE GRADE LINE

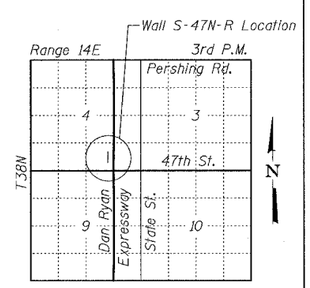
Along ℄ SB LOCAL LANES

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 1 2	Each	2 1
Porous Granular Embankment (Special)	Cu. Yd.	138
Structure Excavation	Cu. Yd.	110
Concrete Structures	Cu. Yd.	81.8
Concrete Superstructure	Cu. Yd.	46.7
Protective Coat	Sq. Yd.	277
Rustication Finish	Sq. Ft.	1,413
Stud Shear Connectors	Each	368
Untreated Timber Lagging	Sq. Ft.	1,472
Furnishing Soldier Piles (W Section)	Foot	1,059
Reinforcement Bars, Epoxy Coated	Pound	22,740
Geocomposite Wall Drain	Sq. Yd.	123
Pipe Underdrains for Structures 4"	Foot	495
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	2,620
Chain Link Fence, 42" Attached to Structure (Special)	Foot	95
Drilled Shaft in Soil, 44"	Foot	30

LEGEND

- Soil Boring Location
- High Mast Lighting (Wall Mounted)
- Removal of Exist. Structures
- Proposed Underdrain
- Proposed Storm Sewer



LOCATION SKETCH

SHEET 1 OF 15

Notes:

1. Offsets given to Front Face of Wall. Station and offsets in parentheses are along Frontage Road or ramp.
2. Wall to be built along straight chords between construction joints.
3. Min. Facing in contact with soldier pile shall be 3'-0".
4. Coordinate pipe underdrain outlet with Drainange Contractor. Outlets shall slope at 1% min. See Drainage Plans. Cost included with Pipe Underdrains for Structures, 4".

REVISIONS		
	NAME	DATE
	REVISED	06/20/06
2	ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-47N-R
GENERAL PLAN AND ELEVATION

SCALE: NTS
DRAWN BY: LAM
DATE: JUNE 9, 2006
CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

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