

PERMANENT RETAINING WALL SYSTEM DATA TABLES

GEOTECHNICAL INFORMATION						Table Date 1-01-11
		Reinforced Soil & Random Backfill	Loose Fine Sand	Firm Fine Sand	Loose Clayey Fine Sand	Firm Clayey Fine Sand
Depth Below Existing Ground Line (ft.)	Wall No. 1	—	0'-6'	6'-33'	33'-39'	—
	Wall No. 2	—	0'-6'	6'-33'	33'-39'	—
Effective Unit Weight (pcf)		110 (moist weight in-place)	118	118	120	110
Cohesion (psf)		0	0	0	122	122
Internal Friction Angle		30°	30°	32°	0	0

NOTE:
If the unit weight and/or internal friction angle of the fill proposed by the Contractor differs from that shown above, the Project Engineer will contact both the District Geotechnical Engineer and the Wall Designer for a possible redesign.

RETAINING WALL VARIABLES				Table Date 1-01-11
Wall No.	Wall Settlement			
	Long Term Settlement (in.)	Short Term Settlement (in.)	Differential Settlement	
			Longitudinal (%) (ft./100ft.)	Transverse (in.)
1	2" to 3"	1" to 2"	0.50	N/A
2	2" to 3"	1" to 2"	0.50	N/A

NOTE:
Design walls for the settlements noted in the table.
Long term settlement is measured from the end of wall fill placement.
Transverse differential settlement is measured from the face of wall to the end of the soil reinforcement.

SOIL REINFORCEMENT LENGTHS FOR EXTERNAL STABILITY											Table Date 1-01-11	
Wall No. 1	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	21	22-23	24	25
	Reinforcement Length (ft.)	8	9	10	11	12	13	14	15	16	17	18
	Factored Bearing Resistance (psf)	1984	2295	2546	2857	3108	3419	3671	3980	4233	4543	4851
Wall No. 2	Wall Height (ft.)	0-11	12	13-14	15	16-17	18	19-20	21	22-23	24	25
	Reinforcement Length (ft.)	8	9	10	11	12	13	14	15	16	17	18
	Factored Bearing Resistance (psf)	1984	2295	2546	2857	3108	3419	3671	3980	4233	4543	4851

NOTES:
1. The reinforcement strap lengths shown above are the minimum lengths required for external stability. The reinforcement lengths used in the construction of the retaining walls will be the longer of that required for external or internal stability (determined by proprietary wall companies).
2. The Factored Bearing Resistances shown above are the critical (lowest) values from all the load cases analyzed using LRFD methodology.

NOTES:

1. Concrete facing panels surfaces treatment will be a fluted, trapezoid, V-groove, fractured rib 3/4" on 1 1/2" centers similar to Burke Form Liner, Pattern No. BG312 (Waterfall).

2. If required, the soil reinforcement and fasteners for the abutement back wall will be designed and furnished by proprietary wall company. The soil reinforcement will be designed to resist a factored horizontal load of 3.5 kips/ft of back wall width. The cost of soil reinforcement and fasteners will be included in the cost of the retaining wall system.

3. Applicable FDOT Wall Types for each wall location are listed below. See the Qualified Products List for approved wall systems and Design Standards Index No. 6020 for allowable wall type substitutions.

Wall No. 1 & 2 - FDOT Wall Type 2B

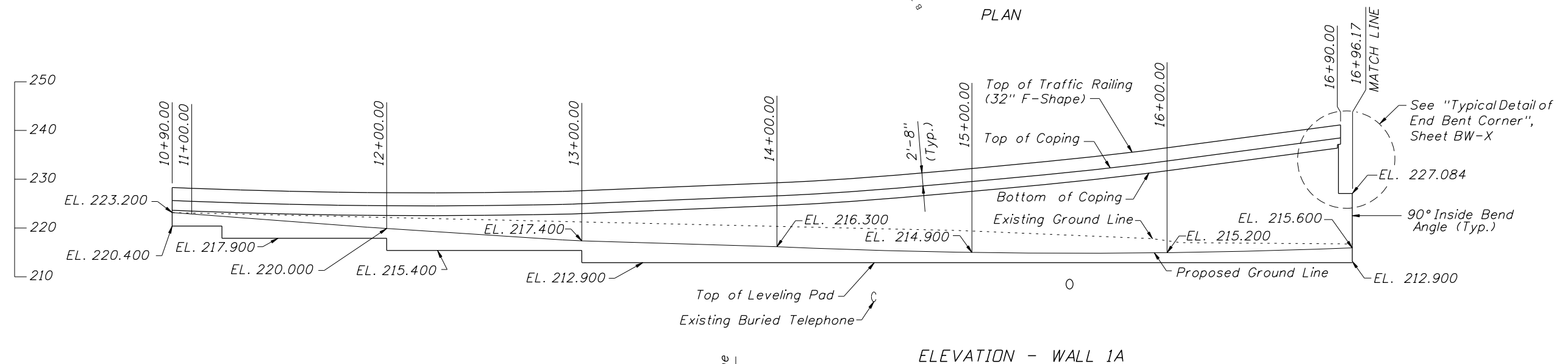
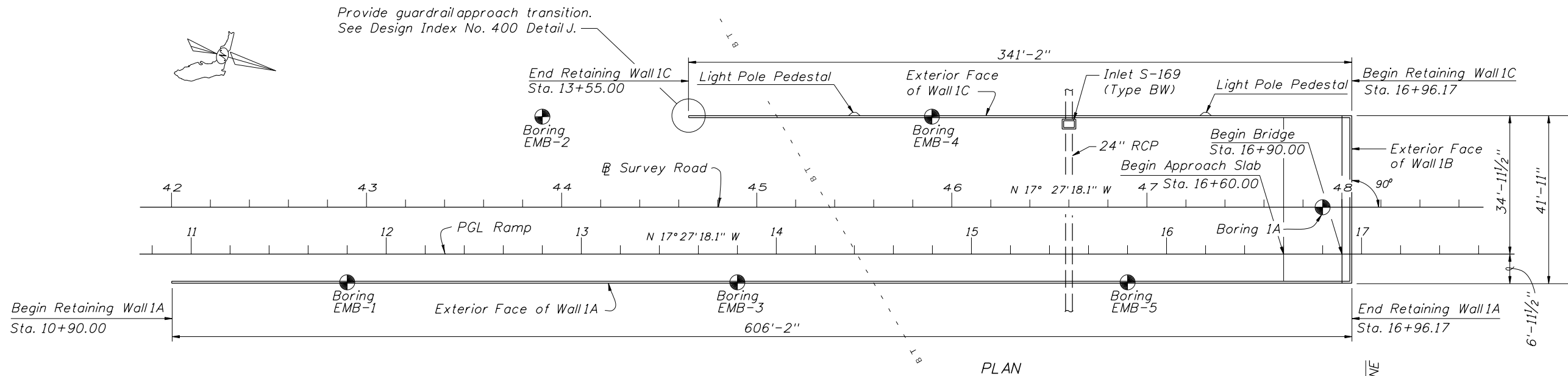
4. Concrete for Coping and/or Junction Slab shall be Class II (f'c = 3,400 psi) without Calcium Nitrite.

5. See Design Standards Index No. 6020 for General Notes And Details.

6. Longitudinal dimensions shown in the plans are measured along the exterior face of the wall. Elevations shown are to the top of coping, top of leveling pad or top of wall footing.

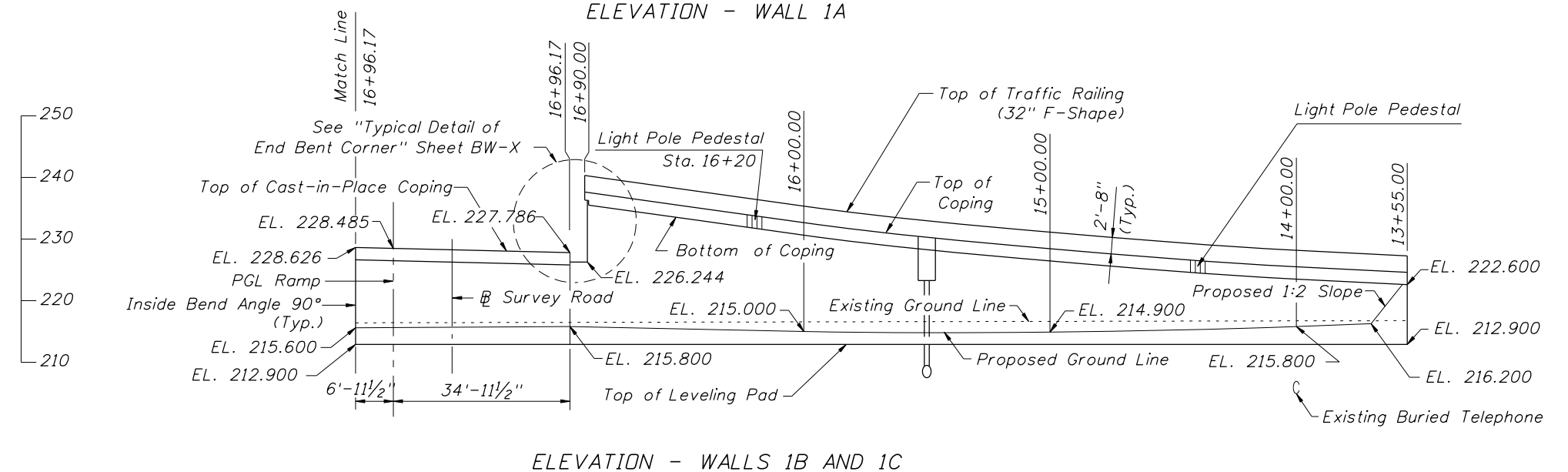
BRIDGE NO. XXXXXX

REVISIONS						STRUCTURES DESIGN OFFICE CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450	DRAWN BY: XXX MM-YY CHECKED BY: XXX MM-YY DESIGNED BY: XXX MM-YY CHECKED BY: XXX MM-YY	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: MSE WALLS (SHEET 1 OF 5) WALL DATA TABLES		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: MSE WALLS EXAMPLE 1 PERMANENT MSE WALLS		SHEET NO.



NOTES:

1. For Top of Coping Elevations see Sheet BW-X.
2. Top of Leveling Pad shall be a minimum of 2'-0" below Proposed Ground Line.
3. Provide $\frac{3}{4}$ " open joints in Traffic Railing at a maximum of 90 ft. intervals.
4. indicates Soil Boring. See Sheets B-XX thru B-XX for boring data.
5. For Additional Information regarding Drainage Structures and Utility Locations, See Roadway Plans.



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CENTRAL OFFICE 605 Suwannee Street, MS 33 Tallahassee, Florida 32399-0450					PROJECT NAME: MSE WALLS EXAMPLE 1 PERMANENT MSE WALLS	SHEET NO.

