

GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS:

Minimum factor of safety for global stability shall be 1.5.

Settlement during construction shall not exceed 3 inches, and settlement after completion of wall and pavement construction shall not exceed 1 inch.

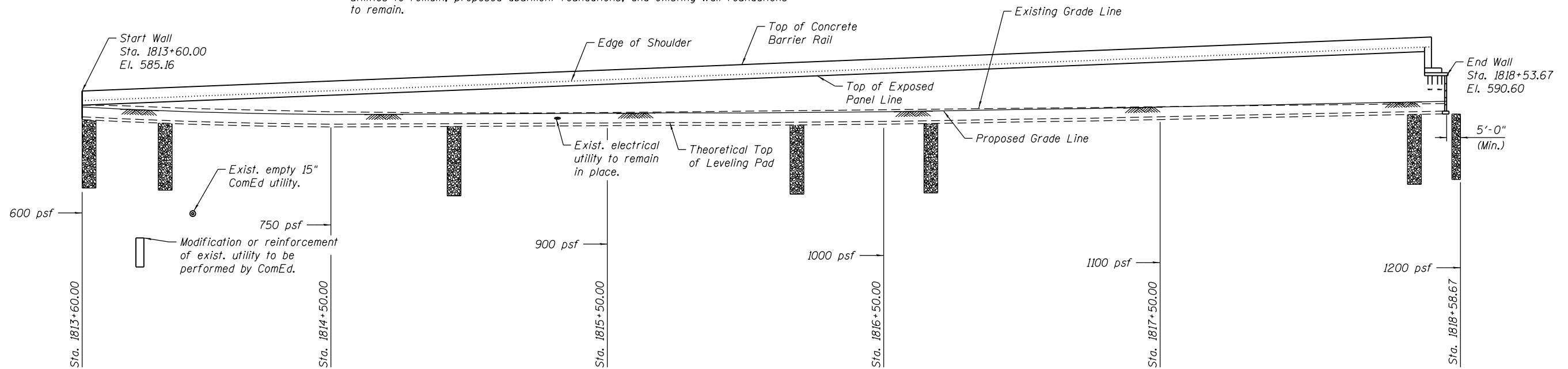
Minimum factor of safety for Equivalent Uniform Service Bearing Pressure shall be 2.5.

Equivalent Uniform Service Bearing Pressure shall be interpolated between the values shown.

NOTES:

1. Aggregate Column Ground Improvement shall be designed by the Contractor in accordance with special provision for Aggregate Column Ground Improvement.
2. Aggregate Column Ground Improvement for Retaining Wall 1 (SN 016-1720) covers approximately 22,900 Sq. Ft.
3. See sheet RW1-05 for section views of ground improvement.
4. Aggregate columns shall be designed and spaced to avoid conflict with existing utilities to remain, proposed abutment foundations, and existing wall foundations to remain.

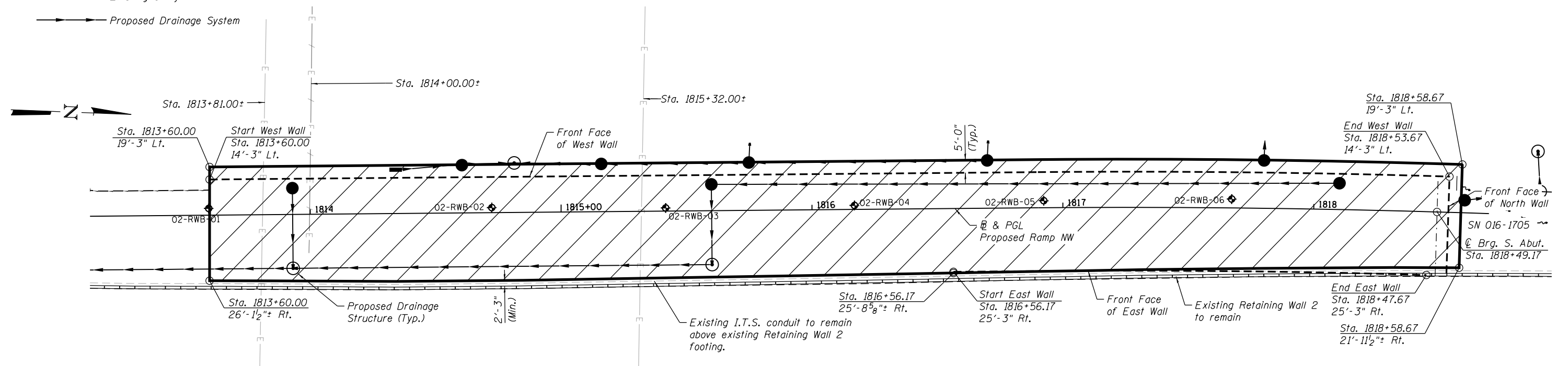
5. Contractor shall field verify location of existing footings and underground utilities and shall take all precautions to protect them during ground improvement, construction of the wall, and final condition of the ramp. Any damages to the existing structures shall be the responsibility of the Contractor.
6. Top of Aggregate Columns is equal to lowest excavation limit or existing grade line, whichever is lower.



LEGEND:

- ⊕ Soil Boring Location
- ▨ Limits of Aggregate Column Ground Improvement
- Existing Utility
- Proposed Drainage System

EQUIVALENT UNIFORM SERVICE BEARING PRESSURE
(At top of ground improvement)



PLAN

BILL OF MATERIAL

Item	Unit	Total
Aggregate Column Ground Improvement	L. Sum	0.58

0161720-60W28-512-SubStruct



USER NAME = dunkerleyb	DESIGNED - DEV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - BRD	REVISED
PLOT DATE = 4/28/2014	CHECKED - EJO	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AGGREGATE COLUMN GROUND IMPROVEMENT DETAILS
STRUCTURE NO. 016-1720

F.A.I. R.T.E. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 530
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT -NUMBER-	

SHEET NO. RW1-12 OF RW1-17 SHEETS