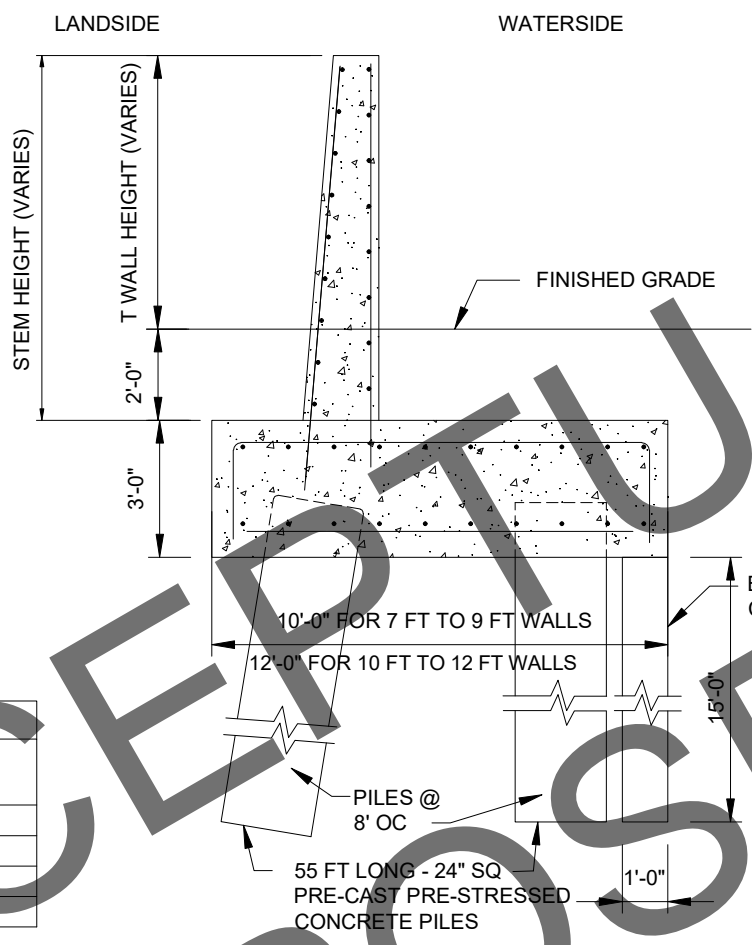


I - WALL QUANTITIES				
I-WALL HEIGHT	STEM HEIGHT	CONCRETE VOL CY/FT	LENGTH OF SHEETPILE FT/FT	WEIGHT OF SHEETPILE LBS/FT
3 FT	5 FT	0.6	12	420
4 FT	6 FT	0.7	48	1680
5 FT	7 FT	0.8	50	1750
6 FT	8 FT	0.9	55	1925

- NOTES:
1. ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 4000 PSI.
  2. ALL REINFORCEMENT SHALL HAVE AN FY=60 KSI
  3. BENTONITE SLURRY WALL SHALL BE BY EXCAVATION AND PUMPING.
  4. ALL SHEETPILE SHALL BE ASTM A 572 PZ 35 SHEETPILE. UNO AS ON THE COMBO WALL.
  5. "I-WALL HEIGHT" AND "T-WALL HEIGHT" REFER TO THE EXPOSED HEIGHT OF THE WALL ABOVE GROUND
  6. PIPE PILE (PP) SHALL BE ASTM A 500 GRADE B.



T - WALL QUANTITIES				
T-WALL HEIGHT	STEM HEIGHT	CONCRETE VOL STEM CY/FT	CONCRETE VOL BASE CY/FT	VOL OF CUTOFF WALL CY/FT
7 FT	9 FT	0.46	1.11	0.56
8 FT	10 FT	0.52	1.11	0.56
9 FT	11 FT	0.58	1.11	0.56
10 FT	12 FT	0.67	1.33	0.56
11 FT	13 FT	0.74	1.33	0.56
12 FT	14 FT	0.82	1.33	0.56



NO.	DATE	DESCRIPTION

DATE: XX-XX-13	AS SHOWN
DESIGNED: XXX	PROJECT: XXXXX
DRAWN: XX	CONTRACT NUMBER: YR-X-XXX
CHECKED: XX	DATE: 11

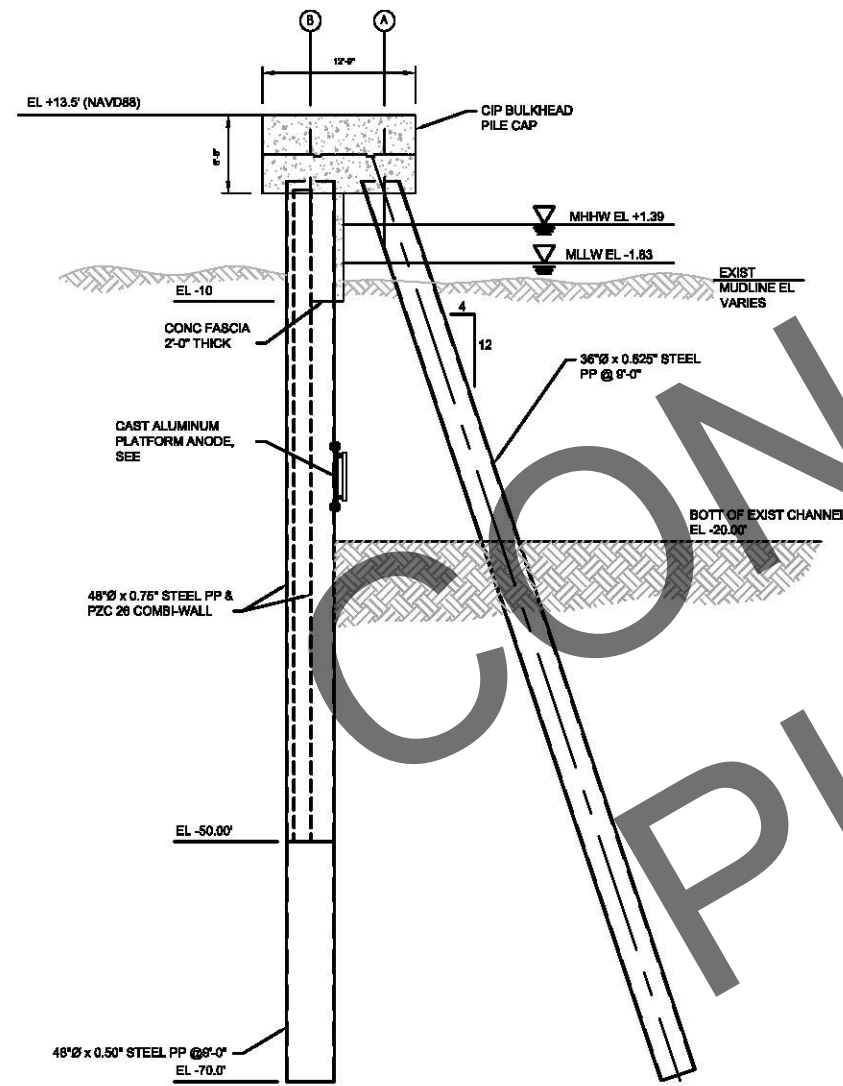
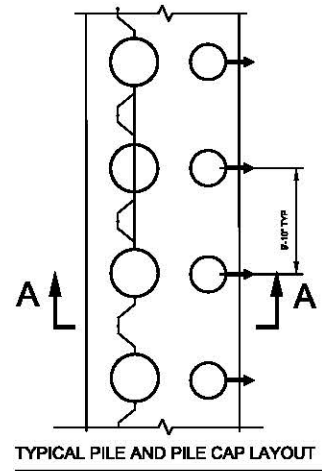
NORFOLK DISTRICT  
CORPS OF ENGINEERS  
NORFOLK, VIRGINIA

10% DESIGN  
SUBMITTAL  
2 MAY 2017

NORFOLK COASTAL STORM  
RISK MANAGEMENT (CSRM) STUDY

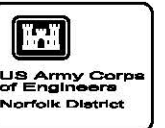
PRELIMINARY I - WALL AND T - WALL  
STRUCTURAL SECTIONS

SHEET  
REFERENCE  
NUMBER  
**S-503**  
SHEET XXX OF XXX



SECTION A-A - COMBO WALL

CONCEPTUAL PURPOSES




NO. XXX	DATE XX-XX-13	BY XXX	CHK XXX	APP XXX	REV XXX	DATE XX-XX-13	BY XXX	CHK XXX	APP XXX	REV XXX

NORFOLK DISTRICT  
CORPS OF ENGINEERS  
NORFOLK, VIRGINIA

**10% DESIGN SUBMITTAL**  
Month Day, 2013

NORFOLK COASTAL STORM  
RISK MANAGEMENT (CSRM) STUDY

PRELIMINARY COMBO WALL DESIGN  
STRUCTURAL PLAN AND SECTION

SHEET REFERENCE NUMBER  
**S-504**  
SHEET XXX OF XXX