







NOTES TO CONTRACTOR:

SCALE: 1/4" = 1'-0"

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- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT PRECAST MEETS SPECIFIC PROJECT REQUIREMENTS. PRECAST DESIGNED FOR TYPICAL PARAMETERS AS NOTED HEREIN. FOR VARIATIONS TO PARAMETERS OR ANY OTHER QUESTIONS CONTACT OLDCASTLE PRECAST, INC. PROFESSIONAL ENGINEER.
- STABILITY OF PRECAST WINGWALL IS DEPENDENT ON GROUTED CONNECTION OF REINFORCED CONCRETE PIPE (RCP) TO PRECAST WING WALL. AS SUCH, PRIOR TO GROUTING THE ANNULAR SPACE BETWEEN RCP AND PRECAST WING WALL THE OUTSIDE OF THE RCP AND INSIDE OF WALL OPENING SHALL BE CLEANED OF ANY DUST OR LAITANCE. RCP SHALL BE INSTALLED IN WALL OPENINGS FOR THE FULL THICKNESS OF PRECAST STEM WALL, ALL ANNULAR SPACES SHALL THEN BE FILLED WITH A MIN OF 3,000 PSI NON-SHRINK NON-CORROSIVE GROUT, TIGHT TO THE UNDERSIDE OF WALL FOR FULL THICKNESS OF PRECAST. GROUT SHALL BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS (I.E. MAXIMUM WATER CONTENT SHALL NOT BE EXCEEDED)

GENERAL DESIGN NOTES:

- STRENGTH DESIGN METHOD I.A.W. ACI 318.
- DOUBLE BARREL APPLICATION. DESIGN I.A.W NCDOT STD DRAWING #838.80 AS MODIFIED FOR
- SOIL PROPERTIES:

- BACKFILL INTERNAL FRICTION ANGLE = 27°, UNIT WEIGHT OF SOIL = 120 PCF, PRECAST TO SOIL FRICTION FACTOR = 0.40,
- BACKFILL SLOPE = 3H:1V (MAX).
- WING WALL DESIGN PARAMETERS:
- CONCRETE UNIT WT = 145 PCF

- PRECAST TO SOIL FRICTION FACTOR = 0.40,
 VEHICULAR SURCHARGE = 0 PSF (TRAFFIC NOT WITHIN A
 DISTANCE OF H/2 FROM BACK OF WALL),
- PRECAST = 20 PSI ALLOWABLE BOND STRENGTH OF NON-SHRINK GROUT TO
- WING WALL STABILITY:
- F.S. SLIDING = 1.5 (MIN), F.S. OVERTURNING = 2.0 (MIN),
- SCOUR ANALYSIS (IF REQUIRED). BY OTHERS.
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 5,000 PSI.
- REINFORCEMENT: ASTM A615, GRADE 60

PLAN VIEW

SCALE: 1/4" = 1'-0"

ALL EXPOSED EDGES SHALL BE CHAMFERED 3 (MIN) TO 1" (MAX).

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STEM 6"



•	SIGNATURE DATE	REVISED AND RESUBMIT:	APPROVED AS NOTED:	APPROVED W/ NO EXCEPTIONS TAKEN:	**THIS MUST BE FILLED OUT BEFORE MANUFACTURING BEGINS*	

4905 STOUGH RD. CONCORD, NC	Oldcastle
NC ENGINEERIN	Precast

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DOUBLE WING WALL

SCALE: 1/4" = 1'-0"

SUBMITTAL LAYOUT CUSTOMER DATE 6/8/17 Double Wing Wall RAWING NUMBER SALES 쭚 SALES ORDER 유

REV DATE