

THE STANDARD SOUND BARRIER WALL FOUNDATION TABLES ARE BASED ON 36"DIA. HOLES. FOR 30"DIA. HOLES, ADD 1 FT TO PILE EXCAVATION DEPTHS (D).

NOTES

FOR SOUND BARRIER WALL, SEE SPECIAL PROVISIONS.

CONSTRUCT SOUND BARRIER WALL TO LINES AND GRADES SHOWN ON THE ROADWAY PLANS.

PROVIDE PANELS WITH A FLAT BOTTOM.

VERIFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING HOLES TO ENSURE SUFFICIENT CLEARANCE IS AVAILABLE.

ADJUST PILE EXCAVATION ELEVATIONS TO MAINTAIN 6"MINIMUM EMBEDMENT OF THE BOTTOM PANEL.

USE CLASS AA FOR PANELS AND CLASS A CONCRETE PILE EXCAVATION BACKFILL. IN ACCORDANCE WITH ARTICLE 1000-4 OF THE STANDARD SPECIFICATIONS.

AT THE CONTRACTOR'S OPTION, USE 10'-0", 15'-0", OR 20'-0" PILE SPACINGS. STANDARD PRECAST CONCRETE PANELS MAY BE USED WITH THE 10'-0" AND 15'-O"PILE SPACING. FOR 20'-O"PILE SPACING, PANELS DESIGNED AND MANUFACTURED BY A THIRD PARTY VENDER SHALL BE USED.

FOR SOUND BARRIER WALL STATIONS, OFFSETS, AND WALL ENVELOPE, SEE ROADWAY PLANS.

PLACE 1" Ø BACKER RODS FULL HEIGHT ON EACH SIDE OF THE PRECAST PANELS. SET AND SEAL THE BACKER ROD IN PLACE WITH SEALANT THAT CONFORMS WITH ARTICLE 1028-3 OF THE STANDARD SPECIFICATIONS.

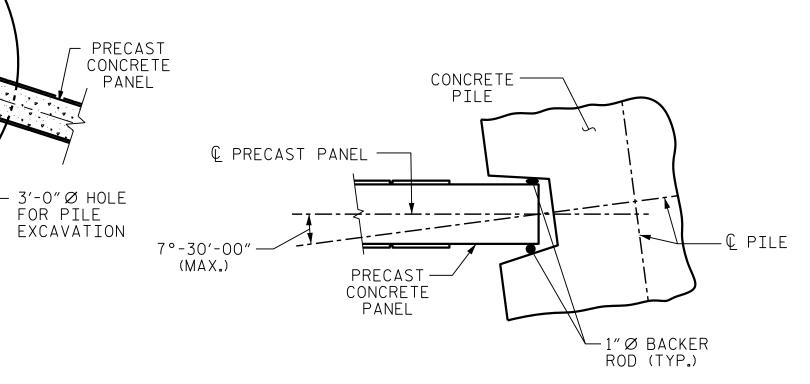
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

		PII	E REINFO	RCING STEE	 EL		
		DES	IGN WIND PRE	SSURE = 40 PS	SF		
	PILE T	YPE I		PILE TYPE III			
PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES	PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES
10'-0"	H ≤ 25′	4 - # 8 EA.FACE	#3 @ 1′-4″CTS.	10'-0"	H ≤ 25′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1′-4″CTS.
157.0%	H ≤ 20′		15/ 0//	H ≤ 20′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.	
15'-0"	20′< H ≤ 25′	4 - #10 EA.FACE	#3 @ 1′-4″CTS.	15'-0"	20'< H ≤ 25'	3 - #11 SHORT FACE 4 - #11 LONG FACE	#3 @ 1'-4"CTS.
201.0"	H ≤ 20′	4 - #9 EA.FACE	#3 @ 1′-4″CTS.	307.0%	H ≤ 20′	3 - #10 SHORT FACE 4 - #10 LONG FACE	#3 @ 1'-4"CTS.
20'-0"	20'< H ≤ 25'	4 - #11 EA.FACE	#3 @ 1'-4"CTS.	20'-0"			
	PILE T	YPE II		PILE TYPE III ALT.			
PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES	PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES
10'-0"	H ≤ 25′	4 - # 6 EA.FACE	#3 @ 1′-4″CTS.	10'-0"	H ≤ 25′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
157.0%	H ≤ 20′	4 - #6 EA.FACE	#3 @ 1′-4″CTS.	157.0%	H ≤ 20′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
15'-0"	20'< H ≤ 25'	4 - #7 EA.FACE	#3 @ 1'-4"CTS.	15'-0"	20′< H ≤ 25′	3 - #11 SHORT FACE 4 - #11 LONG FACE	#3 @ 1'-4"CTS.
201.0"	H ≤ 20′	4 - #6 EA.FACE	#3 @ 1'-4"CTS.	30′ 0″	H ≤ 20′	3 - #10 SHORT FACE 4 - #10 LONG FACE	#7 O 4/ 4// OTC
20'-0"	20′< H ≤ 25′	4 - #8 EA.FACE	#3 @ 1'-4"CTS.	20'-0"			#3 @ 1′-4″CTS.

18,303 S.F.

29,462 S.F.



MODJESKI and MASTERS PILE ROTATION LIMIT FOR WALL TURN

SOUND BARRIER WALL

TEXTURE OPTION:

STAIN OPTION:

ARCHITECTURAL SURFACE TREATMENT

333 FAYETTEVILLE STREET, SUITE 500 RALEIGH, NC 27601 NC LICENSE NO. C-2979

BILL OF MATERIAL

QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY.

ARCHITECTURAL SURFACE TREATMENT

DRY STACK STONE FORMLINER

DARK GRAY (FS 26008)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

860+65.54 -L3- = STATION:_ 10+00 -NW11-SHEET 4 OF 8 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD

RUTHERFORD

PROJECT NO. R-2233BB

SOUND BARRIER WALL No. -NW11-

			SHEET NO.							
Ν	١٥.	BY:	DATE:	NO.	BY:	DATE:	SW-4			
٩	1			3			TOTAL SHEETS			
4	2			4			8			

5F73FA2DEA974E8..

4/24/2020

OF ESSION NA

Jason R Doughty

032967

C.CORMAN K.WHITE DESIGNED BY: Drawn by: M. NIFONG CHECKED BY: DESIGN ENGINEER OF RECORD:

PRECAST CONCRETE PANEL

€ CONCRETE-

PILE

CONCRETE PILE

__ DATE : APR 2020

_ DATE : APR 2020 _ DATE : APR 2020

15° TO 45° TURNS

(PILE TYPE III)

DRAWN BY: MAA 6/II CHECKED BY : GM 6/II

TYPICAL WALL TURN DETAILS

- PRECAST -CONCRETE PANEL

— CONCRETE SHIM BLOCK

- 3'-0" Ø HOLE FOR PILE EXCAVATION

REV. 9/26/14 REV. 10/17 REV. 5/18

MAA/TMG MAA/THC MAA/THC

€ CONCRETE →

CONCRETE PILE -

0° TO 15° TURNS

PILE

(ROTATE THE CONCRETE PILE ±7°-30′-00″ TO ACCOMMODATE WALL TURN.)

— CONCRETE SHIM BLOCK

STD.NO.SBW1

COUNTY