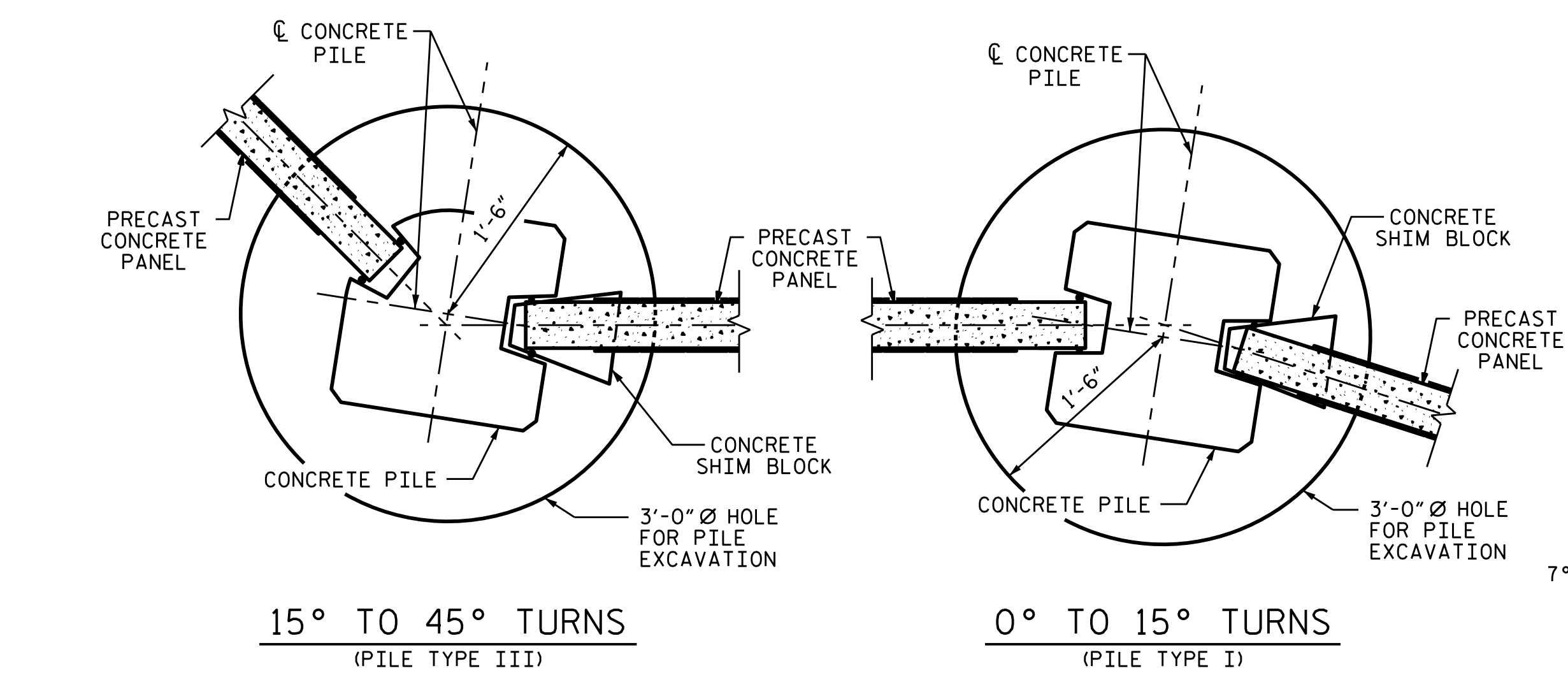
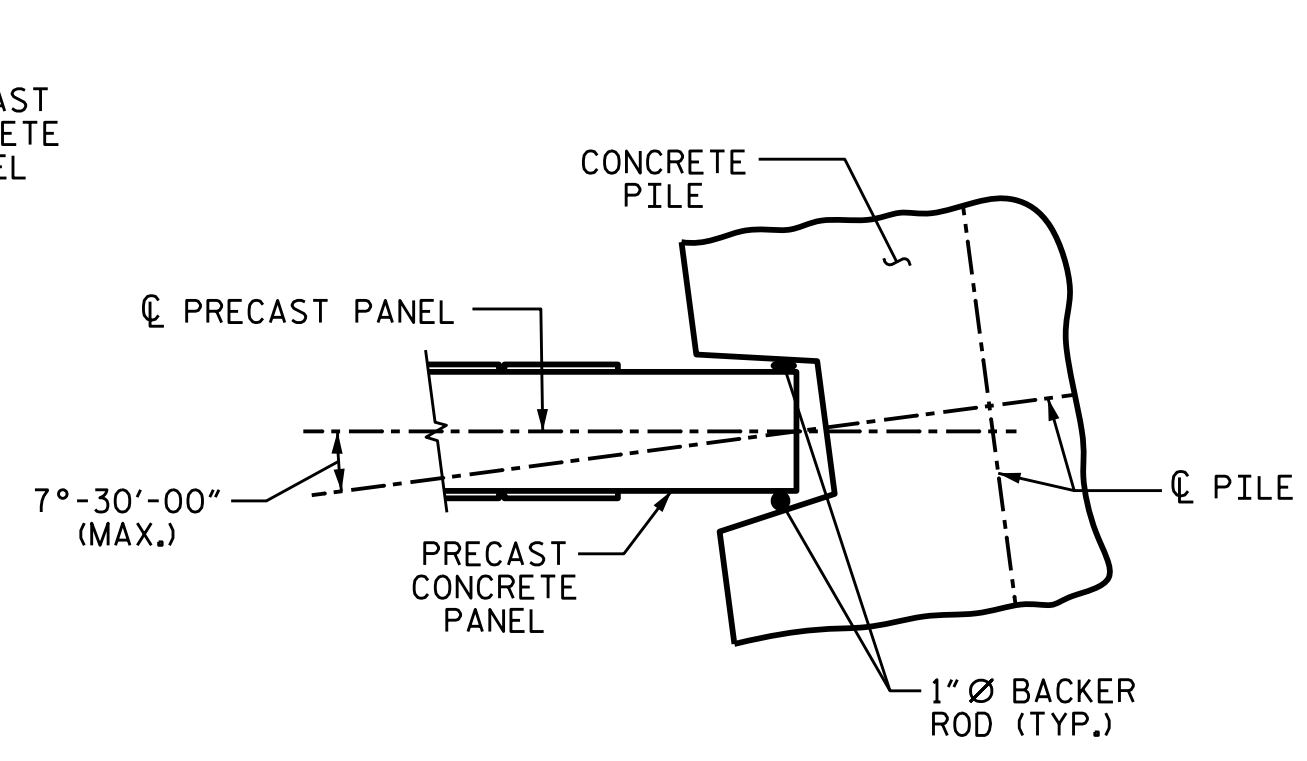


ELEVATION

SECTION A-A



TYPICAL WALL TURN DETAILS



PILE ROTATION LIMIT FOR WALL TURN

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

ASSEMBLED BY : E. BAYISSA DATE : 08/2021
 CHECKED BY : A. SORSENGINH DATE : 08/2021
 DRAWN BY : MAA 6/11
 CHECKED BY : GM 6/11

REV. 9/26/14 MAA/TMG
 REV. 10/17 MAA/THC
 REV. 5/18 MAA/THC

23-SEP-2021 14:02
 W:\Structures\Plans\Noise Wall\Final Plans\U2579AB.SMU.SBW.dgn
 ksedal

PILE EXCAVATION DEPTHS "D"					
WALL # 4		FROM : STA. 10+00.00 -NW24/25- TO : STA. 49+00.00 -NW24/25-			
3'-0" Ø HOLE	PILE SPACING	WALL HEIGHT			
		H ≤ 15'	15' < H ≤ 20'	20' < H ≤ 25'	25' < H ≤ 27'
		10'-0"	10'-0"	12'-0"	13'-0"
		15'-0"	11'-0"	13'-0"	16'-0"
20'-0"	12'-0"	15'-0"	18'-0"	21'-0"	

WALL # 4		FROM : STA. 49+00.00 -NW24/25- TO : STA. 54+55.00 -NW24/25-			
3'-0" Ø HOLE	PILE SPACING	WALL HEIGHT			
		H ≤ 15'	15' < H ≤ 20'	20' < H ≤ 25'	
		10'-0"	8'-0"	10'-0"	11'-0"
		15'-0"	9'-0"	11'-0"	13'-0"
20'-0"	10'-0"	13'-0"	15'-0"		

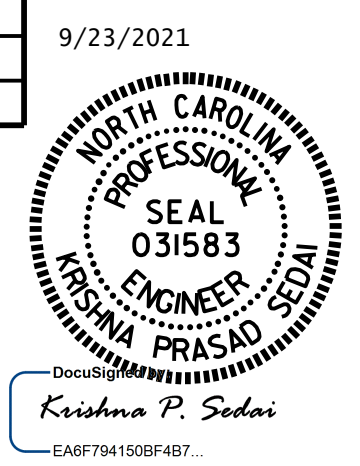
NOTE: FOR 30" DIA. HOLES, ADD 1 FT TO D.

PILE REINFORCING STEEL
 DESIGN WIND PRESSURE = 40 PSF

PILE TYPE 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 ≤ 27'	4 - #8 EA. FACE	#3 @ 1'-4"CTS.	10'-0"	H ≤ 27'	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
	H ≤ 20'	4 - #8 EA. FACE	#3 @ 1'-4"CTS.		15'-0"	H ≤ 20'	3 - #9 SHORT FACE 4 - #9 LONG FACE
15'-0"	20' < H ≤ 27'	4 - #10 EA. FACE	#3 @ 1'-4"CTS.	15'-0"		20' < H ≤ 27'	3 - #11 SHORT FACE 4 - #11 LONG FACE
	H ≤ 20'	4 - #9 EA. FACE	#3 @ 1'-4"CTS.		20'-0"	H ≤ 20'	3 - #10 SHORT FACE 4 - #10 LONG FACE
20'-0"	20' < H ≤ 27'	4 - #11 EA. FACE	#3 @ 1'-4"CTS.	20'-0"		H ≤ 20'	3 - #10 SHORT FACE 4 - #10 LONG FACE

PILE TYPE 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 ≤ 27'	4 - #6 EA. FACE	#3 @ 1'-4"CTS.	10'-0"	H ≤ 27'	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
	H ≤ 20'	4 - #6 EA. FACE	#3 @ 1'-4"CTS.		15'-0"	H ≤ 20'	3 - #9 SHORT FACE 4 - #9 LONG FACE
15'-0"	20' < H ≤ 27'	4 - #7 EA. FACE	#3 @ 1'-4"CTS.	15'-0"		20' < H ≤ 27'	3 - #11 SHORT FACE 4 - #11 LONG FACE
	H ≤ 20'	4 - #6 EA. FACE	#3 @ 1'-4"CTS.		20'-0"	H ≤ 20'	3 - #10 SHORT FACE 4 - #10 LONG FACE
20'-0"	20' < H ≤ 27'	4 - #9 EA. FACE	#3 @ 1'-4"CTS.	20'-0"		H ≤ 20'	3 - #10 SHORT FACE 4 - #10 LONG FACE

BILL OF MATERIAL	
SOUND BARRIER WALL	108,020 S.F.
ARCHITECTURAL SURFACE TREATMENT	179,529 S.F.
QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY.	
ARCHITECTURAL SURFACE TREATMENT	
TEXTURE OPTION:	ASHLAR STONE
STAIN OPTION:	UNSTAINED



PROJECT NO. U-2579AB
 FORSYTH COUNTY
 STATION: 70+01.05-Y15FLYBD

SHEET 4 OF 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 SOUND BARRIER WALL 4
 -NW24/25-

REVISIONS						SHEET NO. 4
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 6
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. SBW1