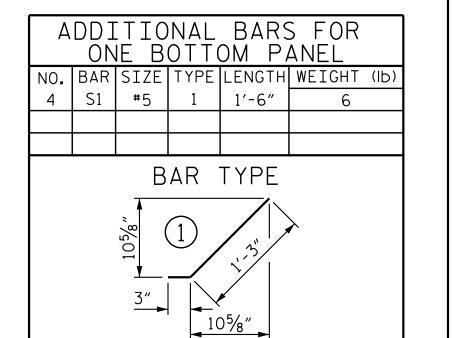


FRONT ELEVATION BOTTOM PRECAST PANEL

	QUAN	NTITIE:	S F	OR	ONE	PR!	ECAST	PANE	L	(FO	R 1	0'-0	"PIL	_E SP	ACING	;)
		CLASS AA CONCRETE	BAR TYPES													
				HORIZONTAL						VERTICAL						
		C.Y.	NO.	BAR	SIZE	TYPE	LENGTH	WEIGHT ((IP)	NO.	BAR	SIZE	TYPE	LENGTH	WEIGHT	(IP)
	2'-0"	0.22	3	H1	#4	STR	8′-8″	17		11	V1	#4	STR	1′-8″	12	
	3′-0″	0.33	4	H2	#4	STR	8'-8"	23		11	٧2	#4	STR	2′-8″	20	
	4'-0"	0.44	5	Н3	#4	STR	8'-8"	29		11	٧3	#4	STR	3′-8″	27	

	QUAI	NTITIE:	S F	OR	ONE	PRI	ECAST	PANEL	(FO	R 1	5′-0	"PIl	_E SP.	ACING	;)
	PANEL HEIGHT	CLASS AA		BAR TYPES											
		CONCRETE		HORIZONTAL						VERTICAL					
		C.Y.	NO.	BAR	SIZE	TYPE	LENGTH	WEIGHT (1b)	NO.	BAR	SIZE	TYPE	LENGTH	WEIGHT	(lb)
	3'-0"	0.52	5	H1	#4	STR	13′-8″	46	16	V1	#4	STR	2′-8″	29	
	4'-0"	0.69	6	H2	#4	STR	13′-8″	55	16	٧2	#4	STR	3′-8″	39	
	5′-0″	0.86	7	Н3	#4	STR	13′-8″	64	16	٧3	#4	STR	4'-8"	50	
	6′-0″	1.04	8	Н4	#4	STR	13'-8"	73	16	V4	#4	STR	5′-8″	61	





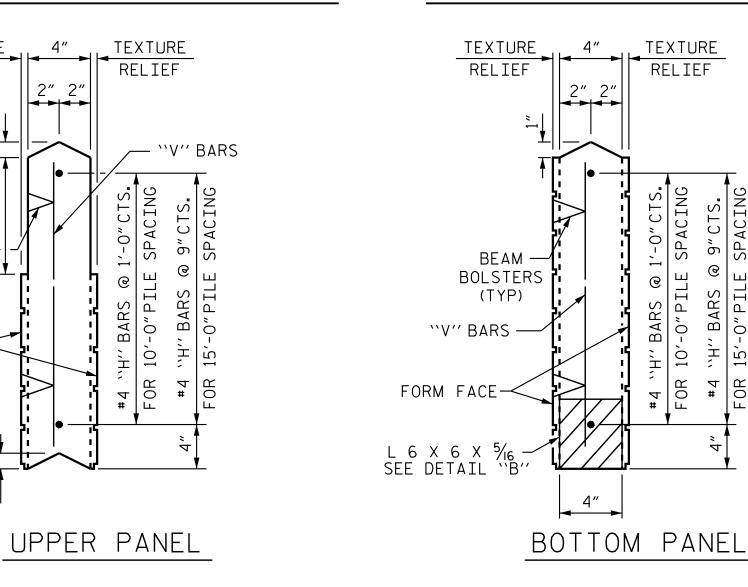
TEXTURE

RELIEF

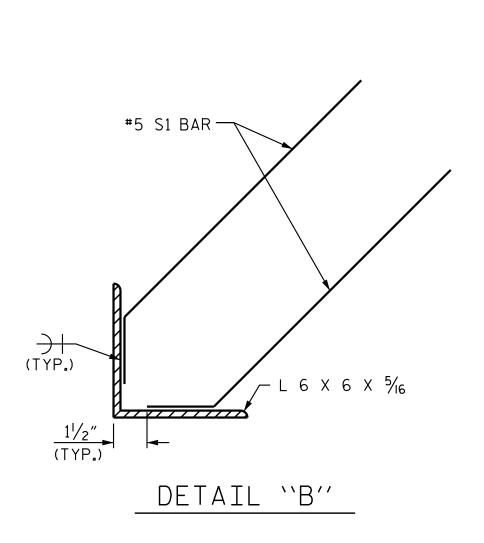
BEAM — BOLSTERS

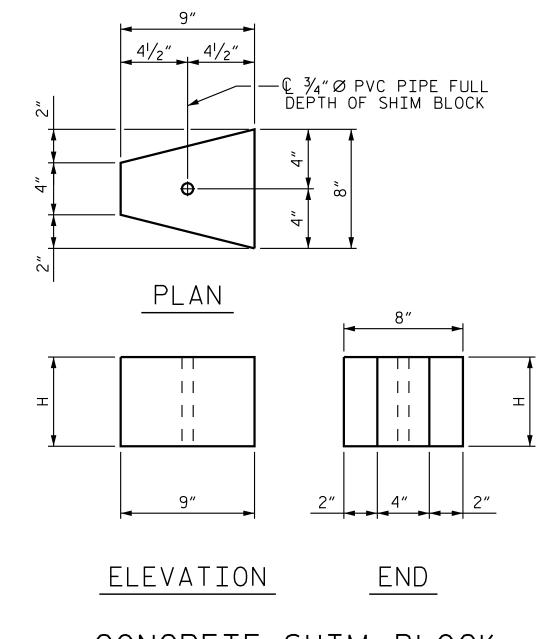
(TYP)

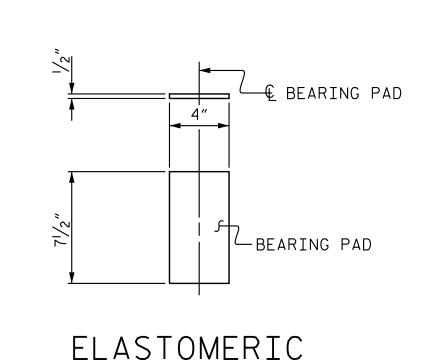
FORM FACE ←



SECTION THROUGH PRECAST PANELS





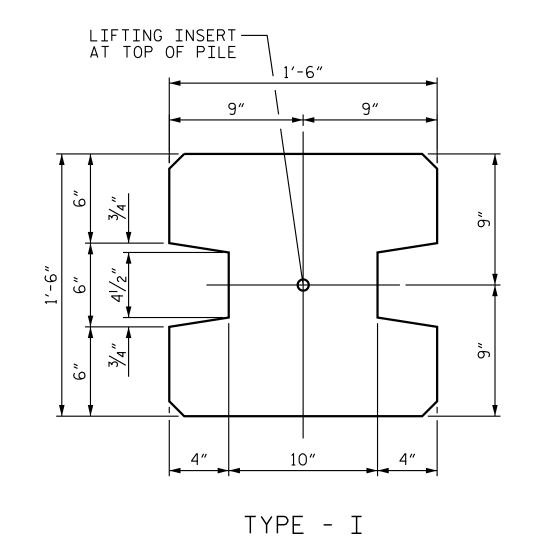


BEARING DETAILS

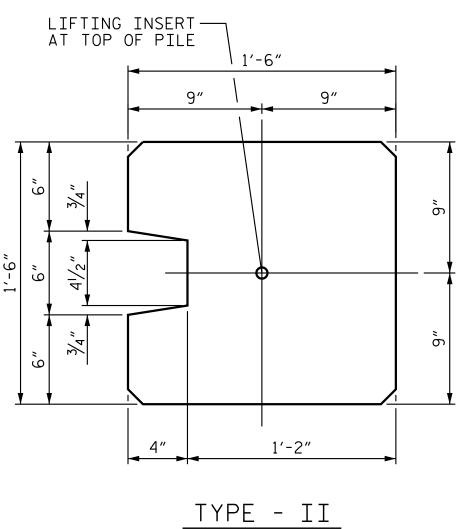
ELASTOMER IN BEARINGS SHALL BE 50 DUROMETER HARDNESS.

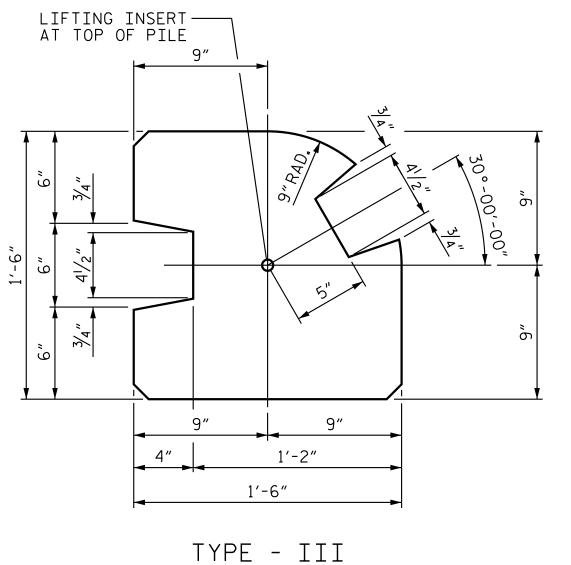
CONCRETE SHIM BLOCK

H = 3",6" or 1'-0"

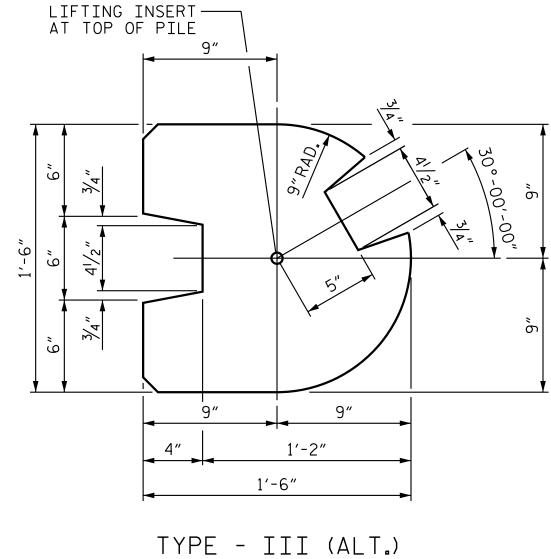


(AREA = 1.9444 SQ.FT.)





(AREA = 1.8336 SQ.FT.)



(AREA = 1.7163 SQ.FT.)

PROJECT NO. R-2707E CLEVELAND COUNTY 935+69.92 -L-STATION:_

SHEET 2 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH STANDARD

SOUND BARRIER WALL DETAILS

Stantec

Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024

www.stantec.com

License No. F-0672 DRAWN BY : A.L. BOYKIN CHECKED BY : S.S. POOLE

(AREA = 2.0903 SQ.FT.)

PILE DETAIL (ALL CORNERS TO BE CHAMFERED 1")

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

054498

SHEET NO. REVISIONS 4/14/2023^{70764646B...} NW10A-2 NO. BY: DATE: DATE: BY: TOTAL SHEETS

STD. NO. SBW2

Suite 300

Stantec

DRAWN BY : A.L. BOYKIN

CHECKED BY : S.S. POOLE

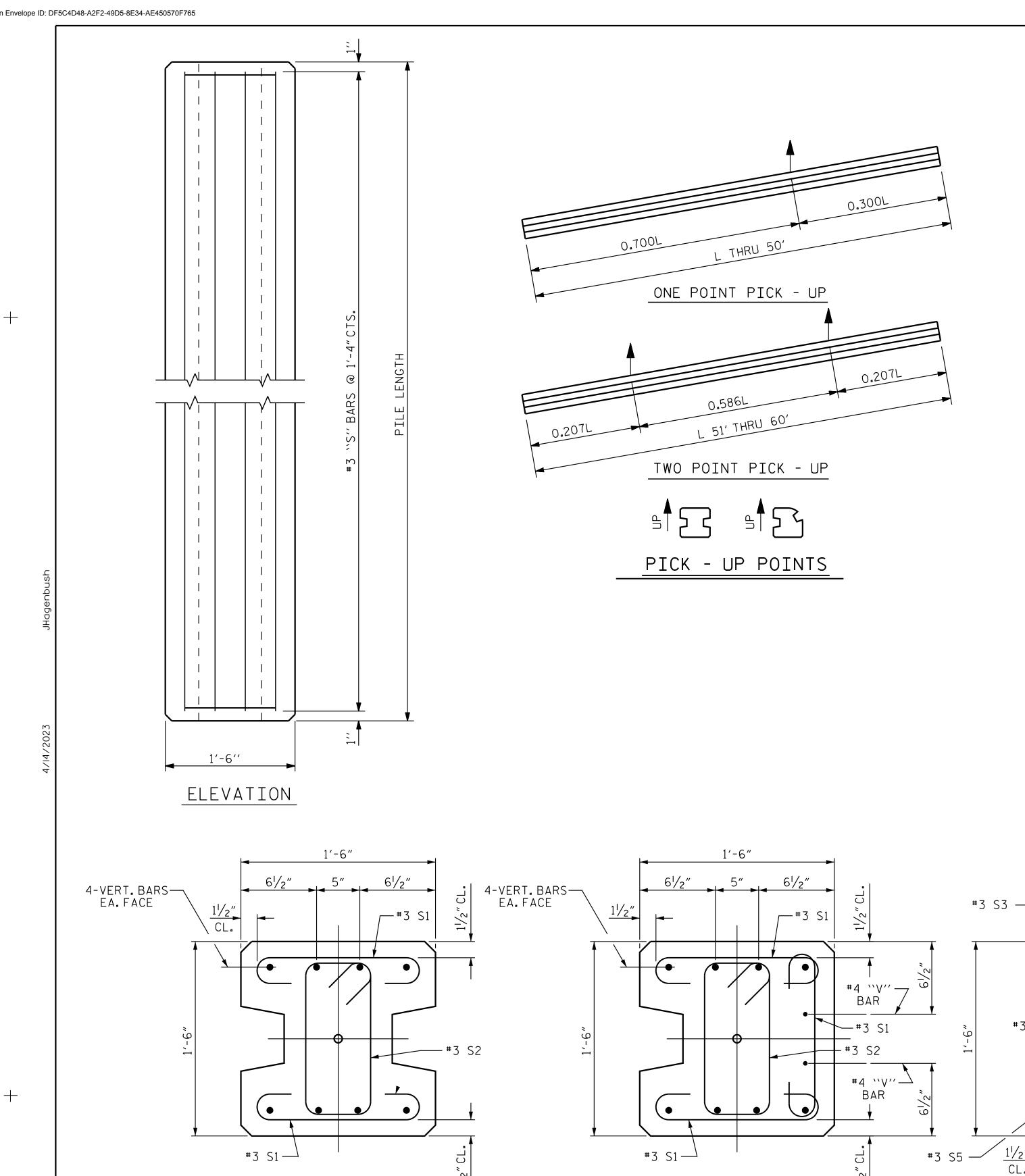
Raleigh, NC 27606 Tel. (919) 851-6866

Fax. (919) 851-7024

www.stantec.com

License No. F-0672

___ DATE : 02/23/23 DESIGN ENGINEER O3/03/23 OF RECORD: S.S. POOLE DATE : 04/14/23



NOTES

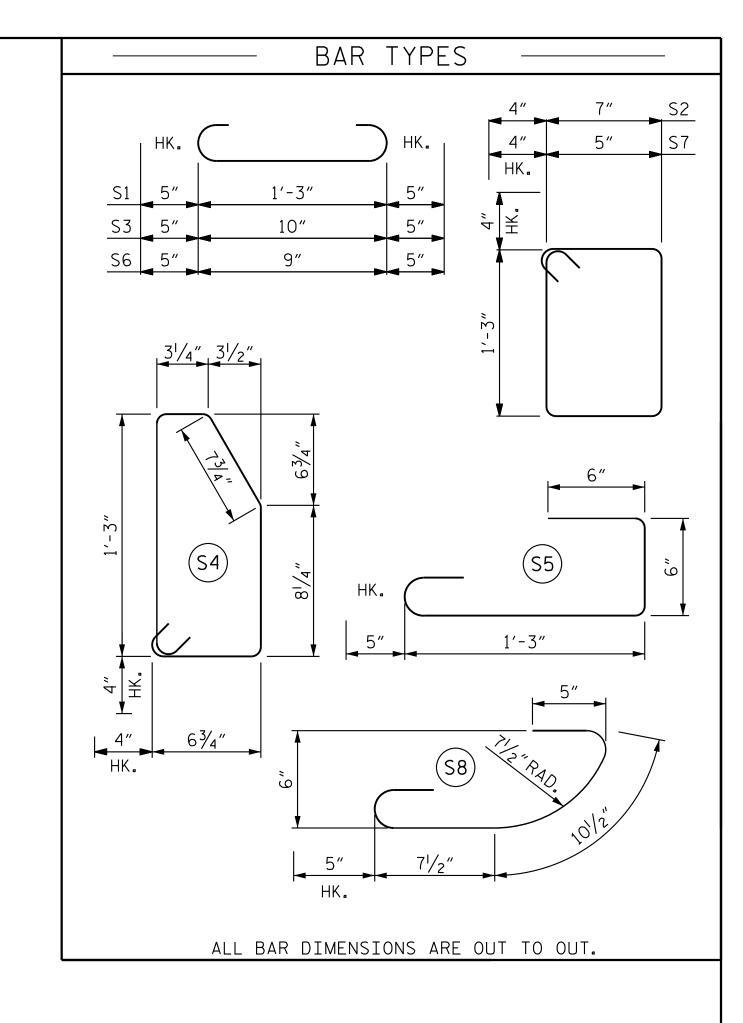
CONCRETE DESIGN DATA : f'c = 5,000 PSI

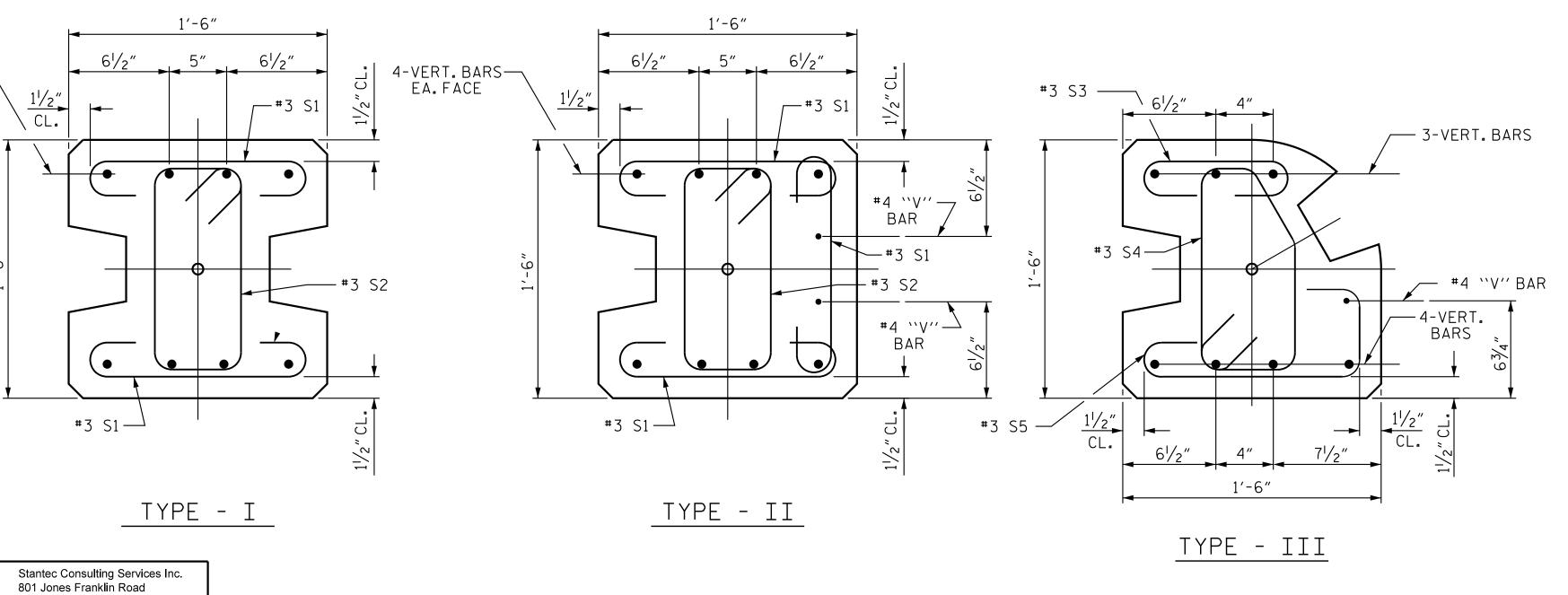
PROPOSED DEVICES FOR LIFTING PILES, RECESS DETAILS, AND PATCHING MATERIAL SHALL BE DETAILED IN SHOP DRAWINGS. AFTER ATTACHMENTS HAVE BEEN REMOVED, OPENINGS SHALL BE REPAIRED SUCH THAT THE APPEARANCE OF THE PILE IS UNIFORM.

WHERE CAST-IN-PLACE LIFTING DEVICES ARE NOT USED, PICK-UP POINTS TO BE INDICATED WITH A BLACK MARK 2" WIDE.

THE SLIP-FORM METHOD OF CASTING PILES WILL NOT BE PERMITTED. ALL CORNERS TO BE CHAMFERED 1".

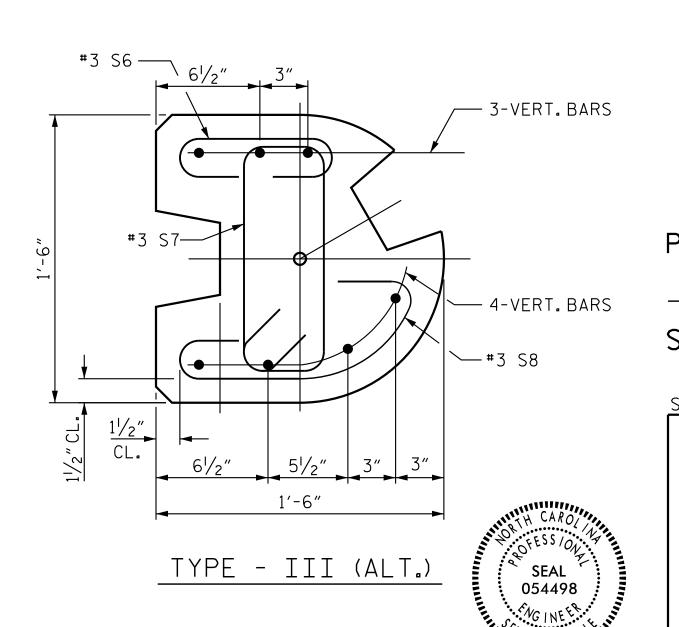
QUANTITIES FOR ONE PRECAST CONCRETE PILE											
LENGTH	APPROX. PILE WT.	ONE PICK	-UP POINT	TWO PICK-UP POINT							
	TONS	0.300L	0.700L	0.207L	0.586L						
10'-0''	1.56	3'-0''	7′-0′′								
15'-0''	2.35	4'-6''	10′-6′′								
20'-0''	3.14	6′-0′′	14'-0''								
25′-0′′	3 . 93	7′-6′′	17′-6′′								
30′-0′′	4.70	9′-0′′	21'-0''								
35′-0′′	5.49	10'-6''	24'-6''								
40'-0''	6.28	12'-0''	28′-0′′								
45'-0''	7.05	13′-6′′	31′-6′′								
50′-0′′	7.84	15′-0′′	35′-0′′								
55′-0′′	8.63			11'-41/2''	32′-3′′						
60′-0′′	9.42			12′-5′′	35′-2′′						





PILE DETAIL

FOR VERTICAL BAR PILE REINFORCING, SEE SHEET 1 OF 4



PROJECT NO. R-2707E CLEVELAND COUNTY 935+69.92 -L-STATION:_

SHEET 3 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH STANDARD

SOUND BARRIER WALL DETAILS

SHEET NO. REVISIONS 4/14/2023^{764646B}. NW10A-3 NO. BY: DOCUMENT NOT CONSIDERED 1 1 SIGNATURES COMPLETED 2 DATE: DATE: BY: TOTAL SHEETS

STD. NO. SBW3

DocuSign Envelope ID: DF5C4D48-A2F2-49D5-8E34-AE450570F765

		ı					
BEGIN WALL	END WALL	PILE EXCAVATION DEPTHS, "D" (FT)					
STATION (NW10A)	STATION (NW1OA)	PILE SPACING = 10 FT	PILE SPACING = 15 FT	PILE SPACING = 20 FT			
10+00	14+95	6	7	8			
14+95	17+80	6	6	7			
17+80	20+80	6	7	8			
20+80	23+20	6	7	8			
23+20	23+95	6	7	7			

PILE EXCAVATION DEPTHS - SOUND BARRIER WALL 10A

1.BEGIN AND END WALL STATIONS ARE REFERENCED TO THE NW10A ALIGNMENT.SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

2. STATIONS ARE TO THE ROADWAY FACE OF THE SOUND BARRIER WALL CONCRETE PILES.

PROJECT NO. R-2707E

CLEVELAND COUNTY

STATION: 935+69.92 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

SOUND BARRIER WALL PILE EXCAVATION

SHEET NO.

NW10A-4

TOTAL SHEETS 4

DEPTHS 4/14/2023^{7646468...} REVISIONS DOCUMENT NOT CONSIDERED 1 1 SIGNATURES COMPLETED 2 DATE: NO. BY: DATE: BY:

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Stantec

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DRAWN BY : A.L. BOYKIN CHECKED BY : S.S. POOLE DATE: 02/23/23 DESIGN ENGINEER O3/03/23 OF RECORD: S.S. POOLE DATE: 04/14/23