

Job Name: 26-1185 - Wells Fargo Smyrna
Job Location: Smyrna, TN 37167
Contractor: Hayes Pipe Supply

Plant: 100
7/21/2026 3:56:01 PM

Tech: Jared - F
PC: E. Bradley



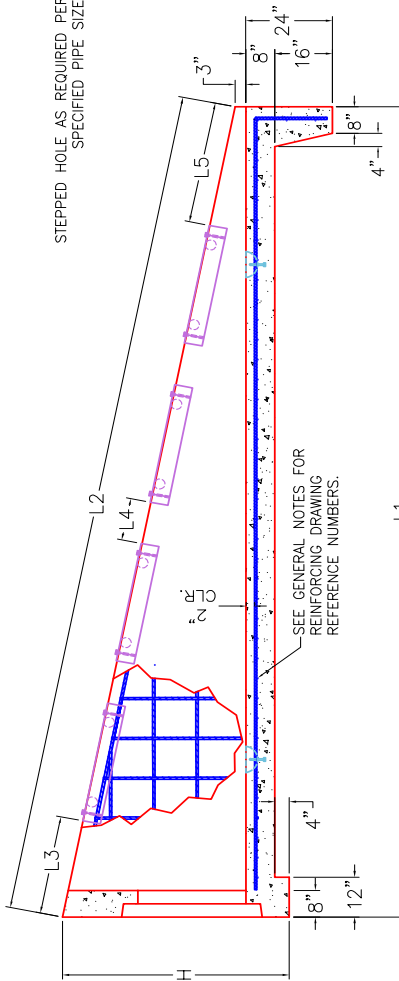
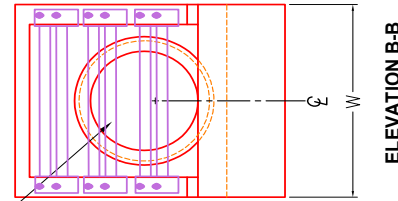
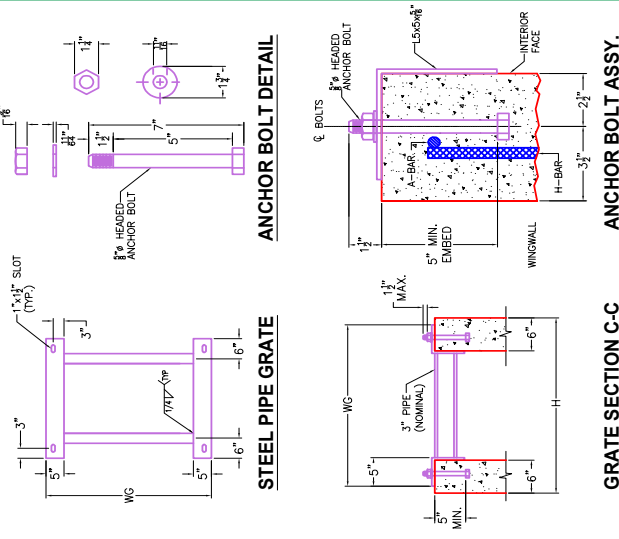
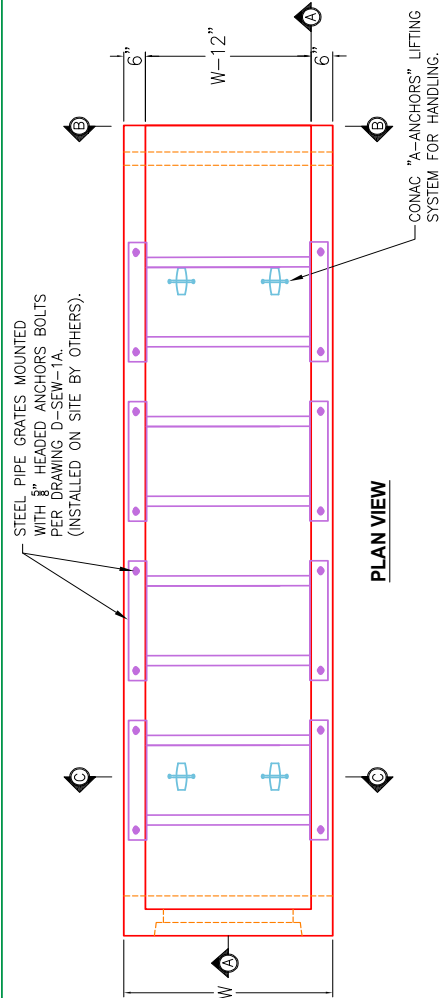
Structure ID: D1-3 HW

P1 HWTDOT6-1SA15C

15" - HW TDOT 6:1 Type Safety Side Drain Endwall Custom F/F

GENERAL NOTES

1. DRAWING TO BE USED FOR ALL 15" THROUGH 48" SIDE DRAIN CONCRETE ENDWALLS.
2. MANUFACTURING, FOR CROSS DRAINS ONLY.
3. CONCRETE: $f_c = 4,500$ PSI @ 28 DAYS.
4. REINFORCING STEEL: ASTM A615, $F_y = 60,000$ PSI.
5. SEE STD. DWGS: D-PE-15A, D-PE-18, D-PE-24A, D-PE-30A, D-PE-36A, D-PE-42A & D-PE-48A FOR BILL OF STEEL.
6. SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
7. APPROPRIATE SIZING AND LOCATIONS OF THE LIFTING INSERTS WILL BE THE RESPONSIBILITY OF INFRASTRUCTURE PRECAST, INC.
8. LIFTING INSERT POCKETS SHALL BE GROUTED ON SITE BY THE CONTRACTOR AFTER THE ENDWALL IS SET AS PER TDOT REQUIREMENTS.
9. DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 3-3.
10. PIPE OPENINGS FOR HEADWALLS ARE BASED ON REINFORCED CONCRETE PIPE WITH TYPE "B" WALL AS PER AMERICAN CONCRETE PIPE ASSOCIATION (ACPA). OUTSIDE DIAMETER + 3"-4".
11. TOE WALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15°.



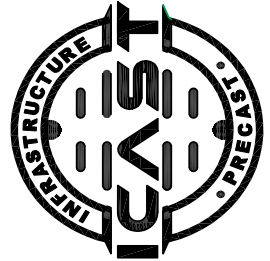
SECTION A-A

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 6:1

SIDE DRAIN DIA. (D)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY		STRUCT. STEEL		WEIGHT	
	H	W	L1	L2	L3	L4	L5	WG	NO.	REQ'D.	LBS.	LBS.	LBS.	LBS.
15"	2'-11"	2'-8"	11'-2"	11'-3"	2'-2"	1'-0"	2'-1"	2'-5"	2	172	4,737			
18"	3'-2"	2'-11"	12'-8"	12'-10"	10"	1'-0"	1'-0"	2'-8"	3	269	5,833			
24"	3'-9"	3'-6"	16'-2"	16'-4"	2'-2"	1'-0"	3'-2"	3'-3"	3	296	8,848			
30"	4'-5"	4'-1"	20'-2"	20'-5"	2'-2"	1'-0"	3'-3"	3'-10"	4	694	12,880			
36"	5'-0"	4'-8"	23'-8"	23'-11"	2'-2"	1'-0"	2'-9"	4'-5"	5	975	17,186			
42"	5'-6"	5'-3"	26'-8"	27'-0"	2'-2"	1'-0"	1'-10"	5'-0"	6	1,300	21,532			
48"	6'-1"	5'-10"	30'-2"	30'-7"	2'-2"	1'-0"	1'-5"	5'-7"	7	1,669	27,092			

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 12:1

PIPE CULV. DIA.	CONCRETE ENDWALL DIMENSIONS				STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY				STRUCT. STEEL		STEEL BAR REINFORC.		WEIGHT	
	H	W	L1	L2	L3	L4	WG	NO.	REQ'D.	LBS.	LBS.	LBS.	LBS.	LBS.
18"	3'-14"	3'-1"	26'-0"	24'-1"	2'-1"	3'-0"	2'-10"	5	480	256	11,119			



INFRASTRUCTURE PRECAST, INC.
981 WEST 7TH ST., BEAVER DAM, KY. 42320
PHONE: (270) 363-2238, FAX: (270) 298-7424

TDOT TYPE "SAFETY" SIDE DRAIN ENDWALL WITH STEEL PIPE GRATES FOR 15" THROUGH 48" PIPES (6:1 & 12:1 SLOPES)

DRAWING NO.: ET-TDOT-200
DATE: 10-02-25
REVIEWED BY: J.H. ROSS, PE
DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM
SCALE: NTS