



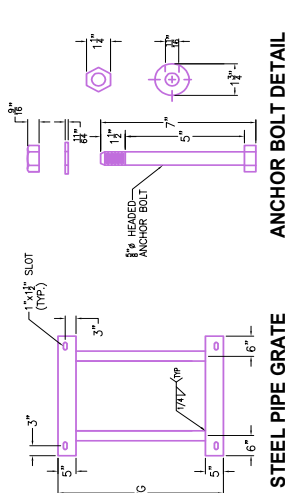
Structure ID: S3-4 HW

P1 HWTDOT6-1SA18

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

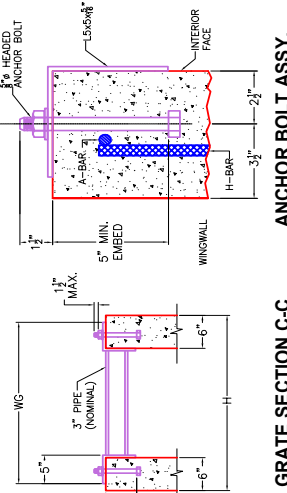
GENERAL NOTES

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



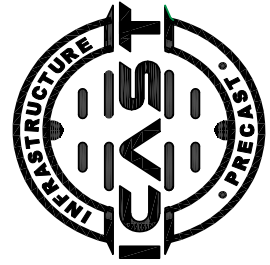
ANCHOR BOLT DETAIL

STEEL PIPE GRATE



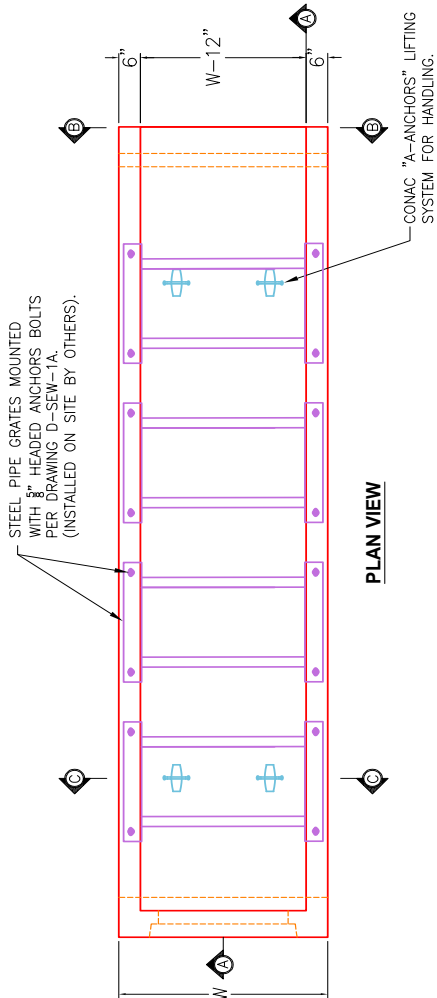
ANCHOR BOLT ASSY.

GRATE SECTION C-C



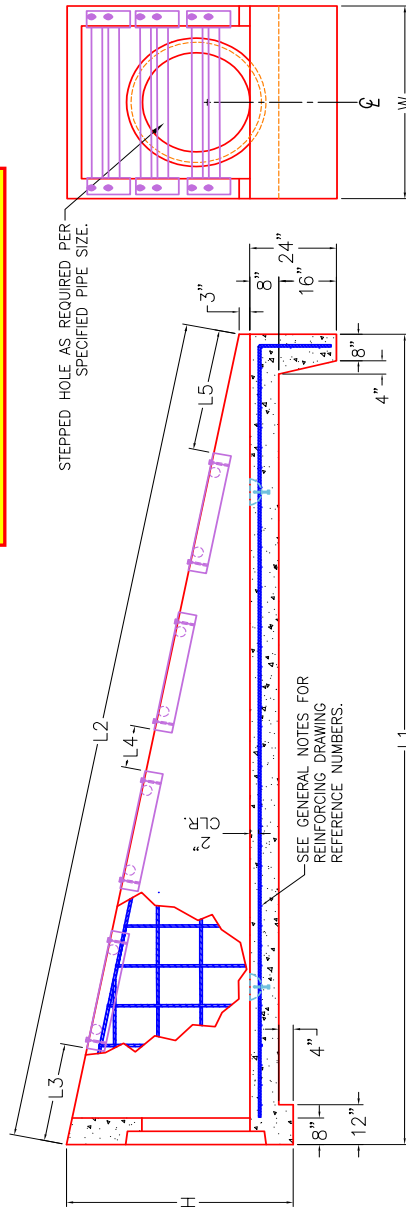
INFRASTRUCTURE PRECAST, INC.
981 WEST 7TH ST., BEAVER DAM, KY. 42320
PHONE: (270) 363-2238, FAX: (270) 298-7424

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



PLAN VIEW

NOTE:
JBS 18" TDOT 6:1 Safety Side Drain
EW Grate Set supplied by ICAST



SECTION A-A

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 6:1

SIDE DRAIN DIA. (O)	CONCRETE ENDWALL DIMENSIONS			GRATE DISPLACEMENT DIMENSIONS			STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY			STRUCT. STEEL		WEIGHT LBS.
	H	W	L1	L2	L3	L4	WG	NO.	REQ'D	LBS.	REQ'D	LBS.
15"	2'-11"	2'-8"	11'-2"	11'-3"	2'-2"	1'-0"	2'-1"	2	5"	172	2	4,737
18"	3'-2"	2'-11"	12'-8"	12'-10"	2'-2"	1'-0"	2'-8"	3	5"	269	3	5,833
24"	3'-9"	3'-6"	16'-2"	16'-4"	2'-2"	1'-0"	3'-2"	3	5"	296	3	8,848
30"	4'-5"	4'-1"	20'-2"	20'-5"	2'-2"	1'-0"	3'-10"	4	5"	694	4	12,860
36"	5'-0"	4'-8"	23'-8"	23'-11"	2'-2"	1'-0"	4'-5"	5	5"	975	5	17,186
42"	5'-6"	5'-3"	26'-8"	27'-0"	2'-2"	1'-0"	5'-0"	6	5"	1,300	6	21,532
48"	6'-1"	5'-10"	30'-2"	30'-7"	2'-2"	1'-0"	5'-7"	7	5"	1,669	7	27,092

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 12:1

DIMENSIONS AND QUANTITIES FOR ONE ENDWALL 12-1											
PIPE CULV. DIA.	CONCRETE ENDWALL DIMENSIONS						STRUCTURAL STEEL GRATE DIMENSIONS AND QUANTITY			STEEL BAR REINFORC.	WEIGHT
	H	W	L1	L2	L3	L4	WG	NO.	REQ'D.	LBS.	LBS.
18"	3'-11"	3'-1"	26'-0"	24'-1"	2'-1"	3'-0"	2'-10"	5	480	256	11,119