

HEADWALL FOR CONCRETE PIPE

CIRCULAR PIPE

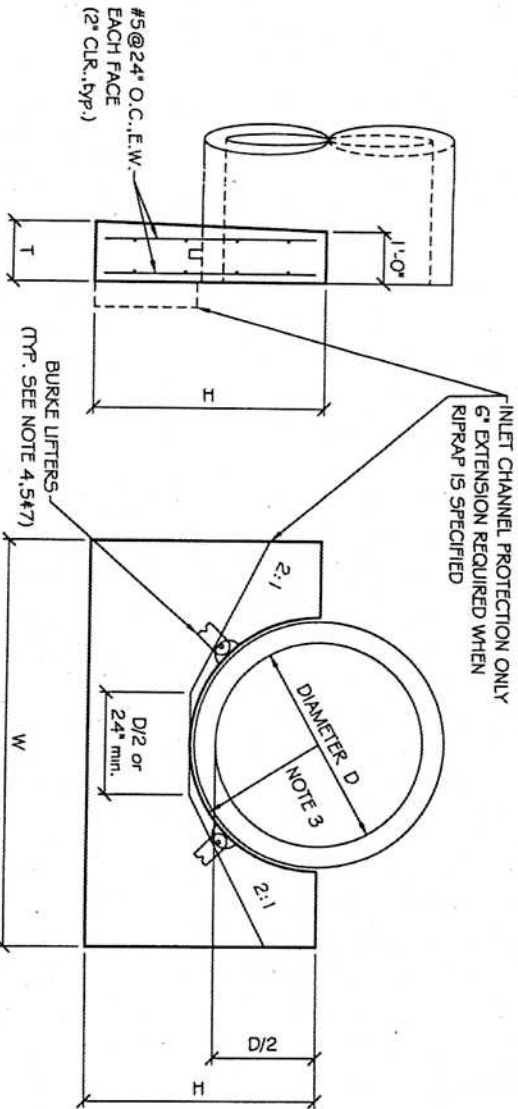
D	W	H	T	Conc. Cyl Yds.
12"	2'-0"	3'-0"	12"	.20
15"	2'-6"	3'-2"	12"	.25
18"	3'-0"	3'-3"	12"	.31
21"	3'-6"	3'-4"	12"	.37
24"	4'-0"	3'-6"	12"	.43
27"	4'-6"	3'-8"	12"	.49
30"	5'-0"	3'-9"	12"	.56
33"	5'-6"	3'-10"	12"	.62
36"	6'-0"	4'-0"	12"	.69
39"	6'-6"	4'-2"	12"	.77
42"	7'-0"	4'-3"	12"	.84
48"	8'-0"	4'-6"	14"	1.09
54"	9'-3"	4'-9"	14"	1.32
60"	10'-6"	5'-6"	16"	1.92
66"	11'-9"	5'-9"	18"	2.42
72"	13'-0"	6'-0"	18"	2.77

STRUCTURAL ENGINEERING

Bruce E. Spalding Administrator



- NOTES:
1. PRECAST CONCRETE: 4,000 P.S.I. @ 28 DAYS, AIR ENTRAINED 6% ± 2%
 2. CONCRETE QUANTITIES ARE BASED ON HEADWALLS WITHOUT THE 6" EXTENSION WHICH MAY BE REQUIRED WITH INLET CHANNEL PROTECTION.
 3. OUTSIDE DIAMETER OF PIPE TYPE BELL + 1" - INLET ONLY.
OUTSIDE DIAMETER OF PIPE TYPE TYP + 1" - OUTLET.
 4. 2 EACH BURKE LIFTERS AS SHOWN FOR D = 36" OR LARGER
 5. ONE EACH BURKE LIFTER IN CENTER OF GRADE FOR D = 27" OR SMALLER
 6. GROUT TO BE NON-SHRINK GROUT AS SPECIFIED BY ODOT - BY OTHERS.
 7. OPENING TO BE FILLED WITH GROUT AFTER INSTALLATION BY OTHERS.



PROFILE

FRONT VIEW

PRECAST CONCRETE O.D.O.T. STANDARD
HW-4B HEADWALL DETAILS



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