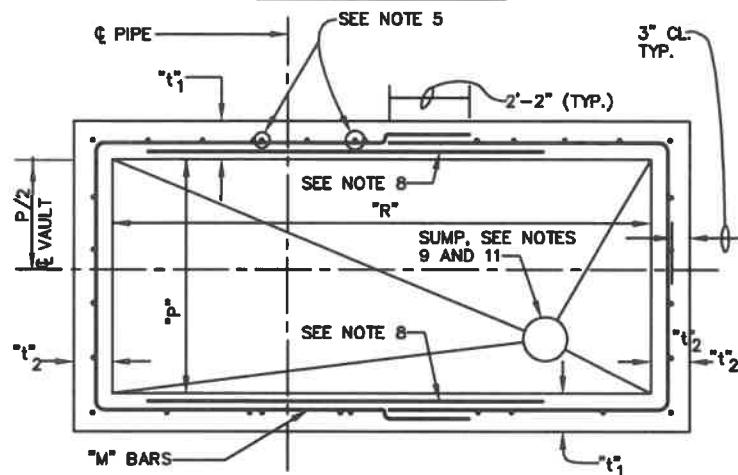
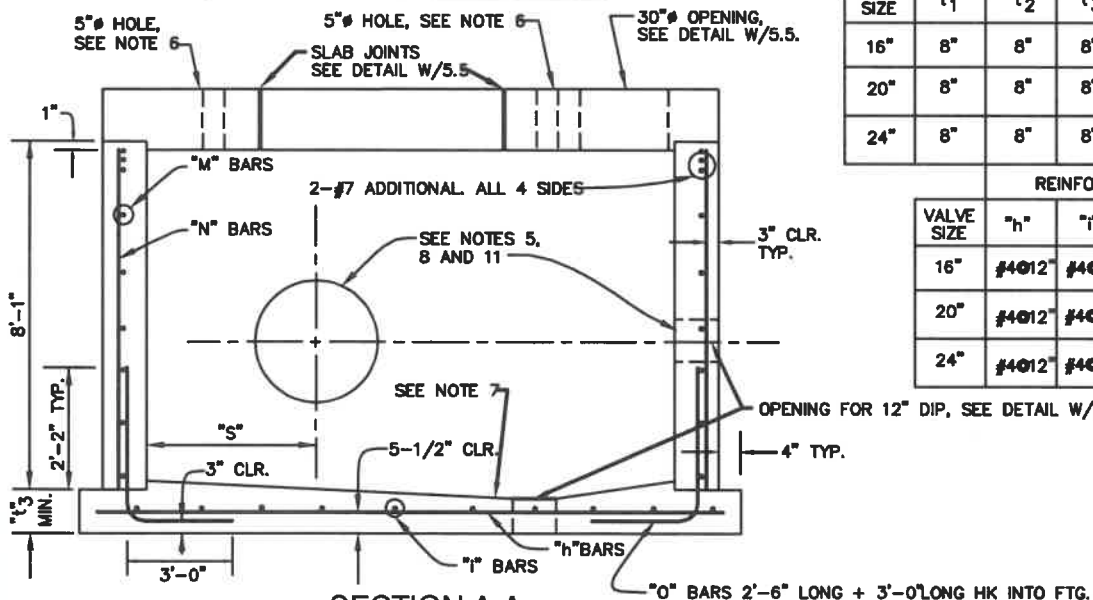


SEE DETAIL W/5.2 FOR TOP SLAB THICKNESS AND REINFORCEMENT
TOP SLAB-PLAN



PLAN-TOP SLAB REMOVED



SECTION A-A

CAST IN PLACE CONCRETE VAULT NOTES

1. $f'_c = 4000$ PSI. ● 28 DAYS
2. $f_y = 60,000$ PSI.
3. VAULTS ARE DESIGNED FOR THE FOLLOWING CONDITIONS
 - A. H2O LOADING & 1'-0" COVER + IMPACT (WATER TABLE 4'-0" BELOW FINISHED GRADE)
 - B. 5'-0" COVER & 2'-0" SURCHARGE. (WATER TABLE 4'-0" BELOW FINISHED GRADE)
4. PRECAST VAULT.
 - A. CONTRACTOR MAY USE PRECAST VAULTS, SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
 - B. MONOLITHICALLY CASE WALLS AND BASE SLAB.
 - C. IF THE BOTTOM SLAB IS NOT SLOPED, PROVIDE MINIMUM 1" THICK CEMENT MORTAR WEARING COURSE SLOP TO SUMP ● 1/4"/LF.
5. PROVIDE ADDITIONAL "N" BARS 6'-0" LONG EACH SIDE OF ALL PIPES PASSING THROUGH WALLS.
6. PROVIDE 5" Ø HOLE IN TOP SLAB CENTERED OVER VALVE OPERATING NUTS. PROVIDE VALVE BOXES PER DETAIL W/5.5.
7. SLOPE BASE OF VAULT TO DRAIN ● 1/4"/LF.
8. PROVIDE ADDITIONAL "M" BARS x 6'-0" LONG TOP & BOTTOM OF ALL PIPES PASSING THRU WALL.
9. FOR SUMP SEE DETAILS W/2.4 AND W/2.4a.
10. FOR PIPING AND VALVE CONFIGURATION AND ADDITIONAL DETAILS, SEE DETAILS W/2.4 AND W/2.4a.
11. PROVIDE RUBBER ANNULAR HYDROSTATIC SEALING DEVICES FOR PIPE THROUGH WALL CONNECTIONS, PROVIDE PIPE OPENING LARGE ENOUGH TO ALLOW FLANGE OR BELL JOINT TO PASS THROUGH.

VALVE SIZE	t ₁	t ₂	t ₃	"P"	"R"	"S"
16"	8"	8"	8"	7'-0"	11'-0"	3'-6"
20"	8"	8"	8"	7'-0"	11'-0"	3'-6"
24"	8"	8"	8"	7'-0"	12'-0"	4'-0"

REINFORCING BAR SIZES					
VALVE SIZE	"h"	"i"	"M"	"N"	"O"
16"	#4@12"	#4@12"	#5@12"	#5@8"	#6@8"
20"	#4@12"	#4@12"	#5@12"	#5@8"	#6@8"
24"	#4@12"	#4@12"	#5@12"	#5@8"	#6@8"

WASHINGTON
SUBURBAN
SANITARY
COMMISSION

APPROVED: 7-26-21
Mike Harmon
Chief Engineer

STANDARD DETAIL

CAST IN PLACE CONCRETE
VAULT FOR 16-INCH, 20-INCH, AND
24-INCH HORIZONTAL VALVES

W
2.5