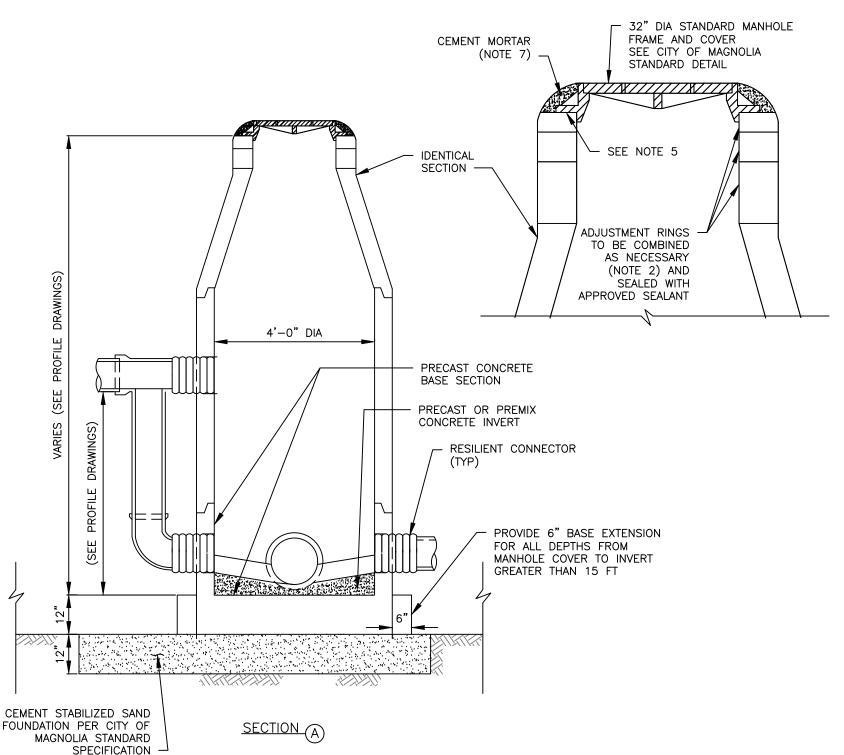


FOUNDATION PLAN

NOTES:

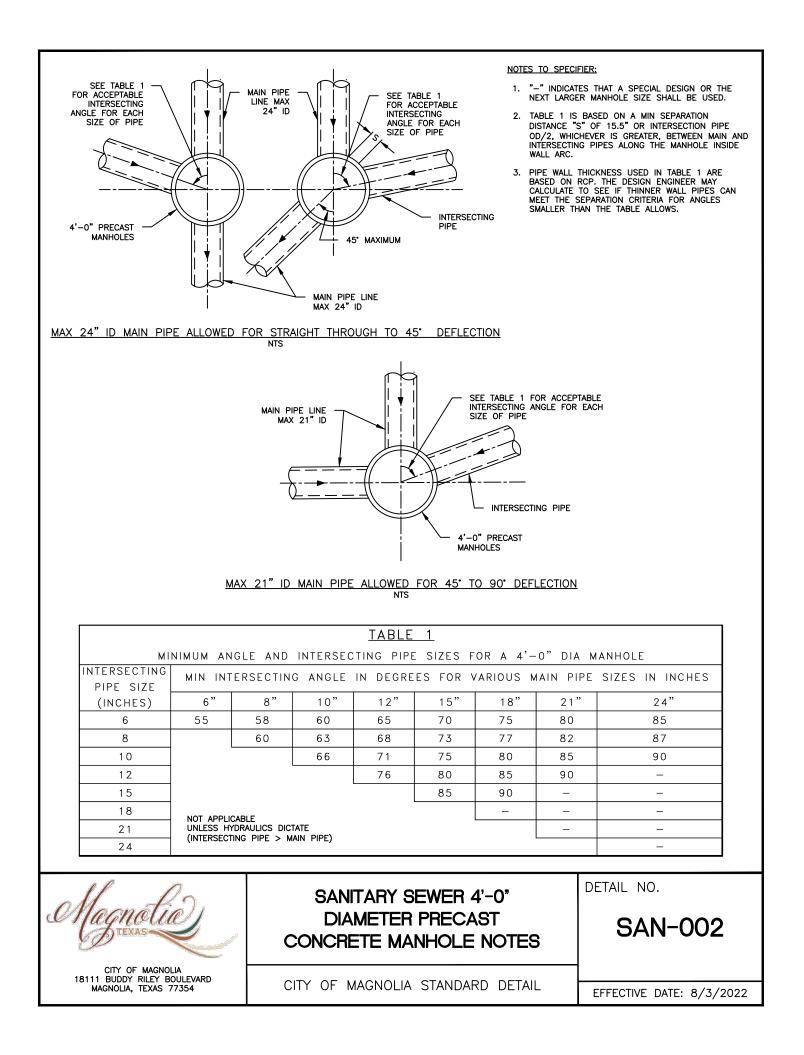
- 1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
- 2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
- 3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
- 4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
- 5. SEAT MANHOLE FRAME IN SEALANT. SEALANT SHALL BE HYDROPHILIC ELASTIC SEALANT WHICH ADHERES TO BOTH CONCRETE AND METAL. APPLIED PER MANUFACTURER GUIDELINES.
- 6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
- 7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
- 8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 EW.

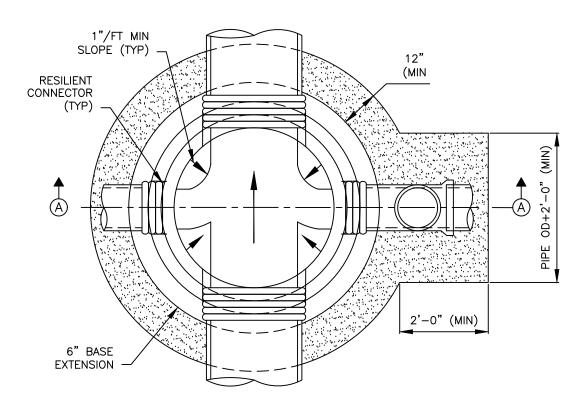




CITY OF MAGNO

NHOLE COVER TO INVERT EATER THAN 15 FT	
'ER 4'-0" DIAMETER NCRETE MANHOLE	detail no. SAN-001
LIA STANDARD DETAIL	EFFECTIVE DATE: 8/3/2022

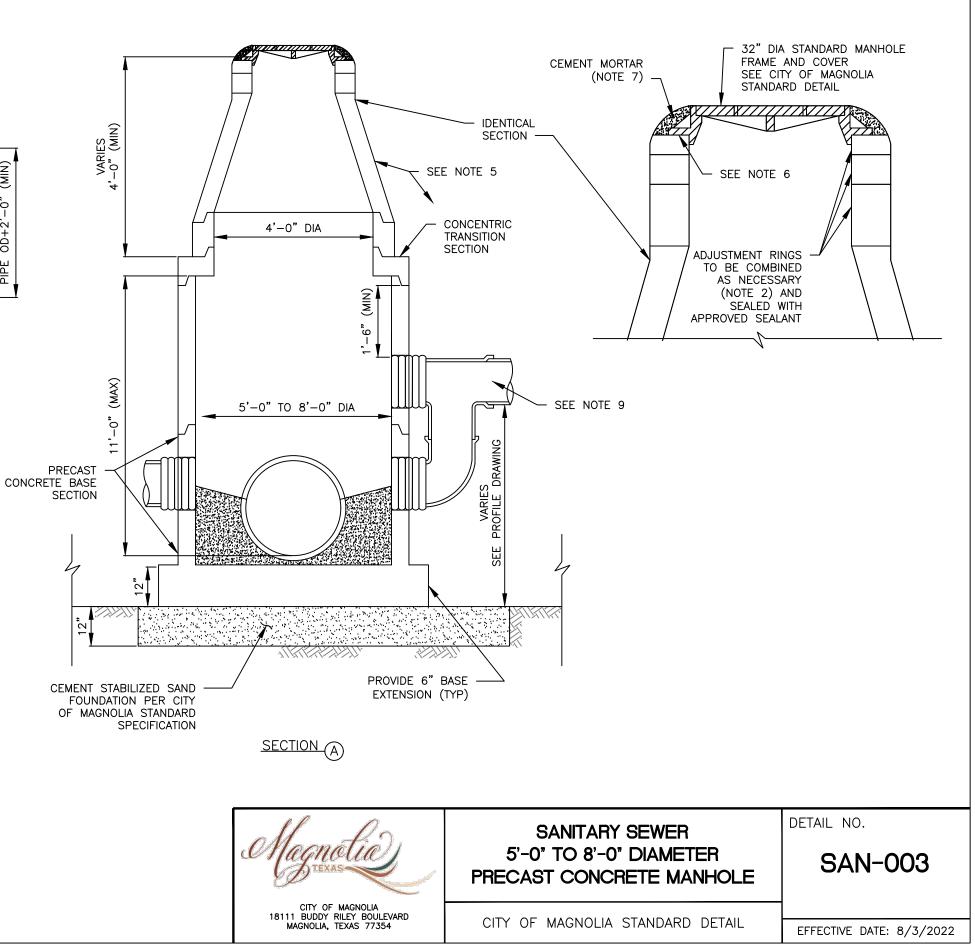


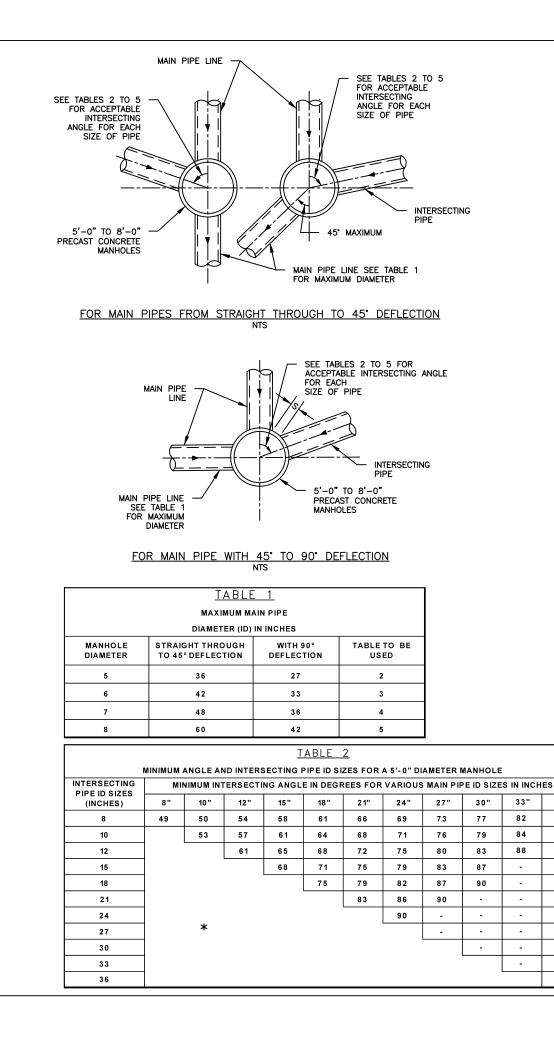


FOUNDATION PLAN

NOTES:

- 1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
- PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
- 3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
- 4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
- 5. ALTERNATE ECCENTRIC CONE AND/OR TRANSITION SECTION MAY BE USED.
- 6. SEAT MANHOLE FRAME IN SEALANT. SEALANT SHALL BE HYDROPHILIC ELASTIC SEALANT WHICH ADHERES TO BOTH CONCRETE AND METAL. APPLIED PER MANUFACTURER GUIDELINES.
- 7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
- 8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 EW.
- 9. WHERE DIMENSIONAL RESTRICTIONS DICATE, THE MANHOLE BASE HEIGHT SHALL BE ADJUSTED TO HAVE THE UPPER INLET PIPE OF THE DROP ENTER INTO THE 4'-0" DIAMETER RISER SECTION.





36"

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					TABL	<u>E 3</u>								
	MINIMUM ANGLE AND INTERSECTING PIPE ID SIZES FOR A 6'-0" DIAMETER MANHOLE													
INTERSECTING PIPE ID SIZES		MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES												
(INCHES)	8"	10 "	12 "	15 "	18 "	2 1"	24"	27"	30"	33"	36"	42"		
8	40	42	45	49	51	54	57	61	63	67	70	78		
10		44	47	50	53	56	59	62	65	69	72	79		
12]		50	54	56	60	62	66	68	72	75	83		
15	1			57	59	62	65	69	71	75	78	85		
18]				62	65	68	71	74	78	81	88		
21	1					68	71	74	77	81	84	-		
24]						74	77	80	84	87	-		
27	1							83	85	89	-	-		
30	1			*					-	-	-	-		
33	1									-	-	-		
36	1										-	-		
36	1											-		

					<u>T</u>	ABLE	<u>4</u>						
	I	MINIMUM	ANGLEAN	ND INTERS	SECTING I	PIPE ID SI	ZES FOR	A 7'- 0" DI	AMETER I	MANHOLE			
	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES												
PIPE ID SIZES (INCHES)	8"	10 "	12 "	15 "	18 "	2 1"	24"	27"	30"	33"	36"	42"	48"
8	35	36	39	42	44	47	49	52	54	57	59	65	71
10		38	40	43	45	48	50	53	55	59	61	67	73
12	1		43	46	48	51	53	56	58	61	64	70	76
15	1			48	50	53	55	58	61	64	66	72	78
18	1				58	56	58	61	63	66	69	74	81
21	1					58	60	63	66	69	71	77	83
24	1						63	66	68	71	74	79	86
27	1						-	70	72	76	78	84	90
30	1			*					78	81	83	89	-
33	1									86	88	-	-
36	1									•	-	-	-
42	1											-	-
48	1												-

TABLE 5															
				ANGLEAN	ID INTERS	BECTING	PIPEIDSI	ZES FOR	A 8'- 0" DI	AMETER I	MANHOLE	i i			
INTERSECTING PIPE ID SIZES	MINIMUM INTERSECTING ANGLE IN DEGREES FOR VARIOUS MAIN PIPE ID SIZES IN INCHES														
(INCHES)	8"	10 "	12"	15 "	18 "	2 1"	24"	27"	30"	33"	36"	42"	48"	54"	60"
8	30	32	34	36	38	41	43	45	47	50	52	56	61	67	74
10		33	35	38	40	42	44	46	48	51	53	58	63	68	77
12			38	40	42	44	46	49	51	53	55	60	65	71	79
15				42	44	47	48	51	53	56	58	62	67	73	81
18					46	49	51	53	55	58	66	64	70	75	83
21						51	53	55	57	60	62	67	72	77	85
24							55	57	59	62	64	69	74	79	89
27								61	63	66	68	73	78	83	-
30									67	70	72	77	82	87	-
33				*						74	76	81	86	-	-
36											81	86	-	-	-
42												-	-	-	-
48													-	-	-
54														-	-
60															-



CITY OF MAGNOLIA 18111 BUDDY RILEY BOULEVARD MAGNOLIA, TEXAS 77354

NOTES TO SPECIFIER:

- 1. "-" INDICATES THAT A SPECIAL DESIGN OR THE NEXT LARGER MANHOLE SIZE SHALL BE USED.
- 2. TABLE 2 TO 5 ARE BASED ON A MIN SEPARATION DISTANCE "S" OF 15.5" OR INTERSECTION PIPE OD/2, WHICHEVER IS GREATER, BETWEEN MAIN AND INTERSECTING PIPES ALONG THE MANHOLE INSIDE WALL ARC.
- 3. PIPE WALL THICKNESS USED IN TABLES 2 TO 5 ARE BASED ON RCP. THE DESIGN ENGINEER MAY CALCULATE TO SEE IF THINDER WALL PIPES CAN MEET THE SEPARATION CRITERIA FOR ANGLES SMALLER THAN THE TABLES ALLOW.
- 4. LIMITATIONS TO BASE HEIGHT ARE BASED ON RESISTING BUOYANT UPLIFT FORCES BASED ON WATER AT GROUND SURFACE AND A SAFETY FACTOR OF 1.20.
- 5. A SPECIAL DESIGN IS REQUIRED IF MANHOLE ID IS GREATER THAN 8 FT.
 - * NOT APPLICABLE (INTERSECTING PIPE GREATER THAN MAIN PIPE).

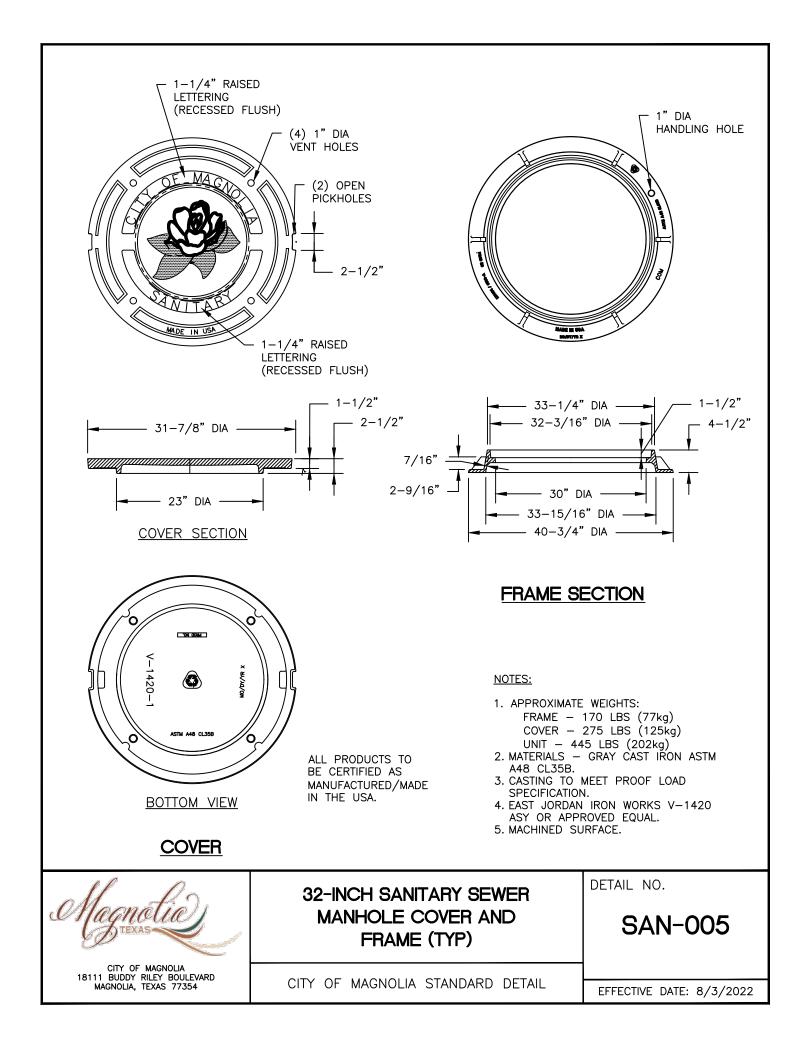
SANITARY SEWER 5'-0" TO 8'-0" DIAMETER PRECAST CONCRETE MANHOLE NOTES

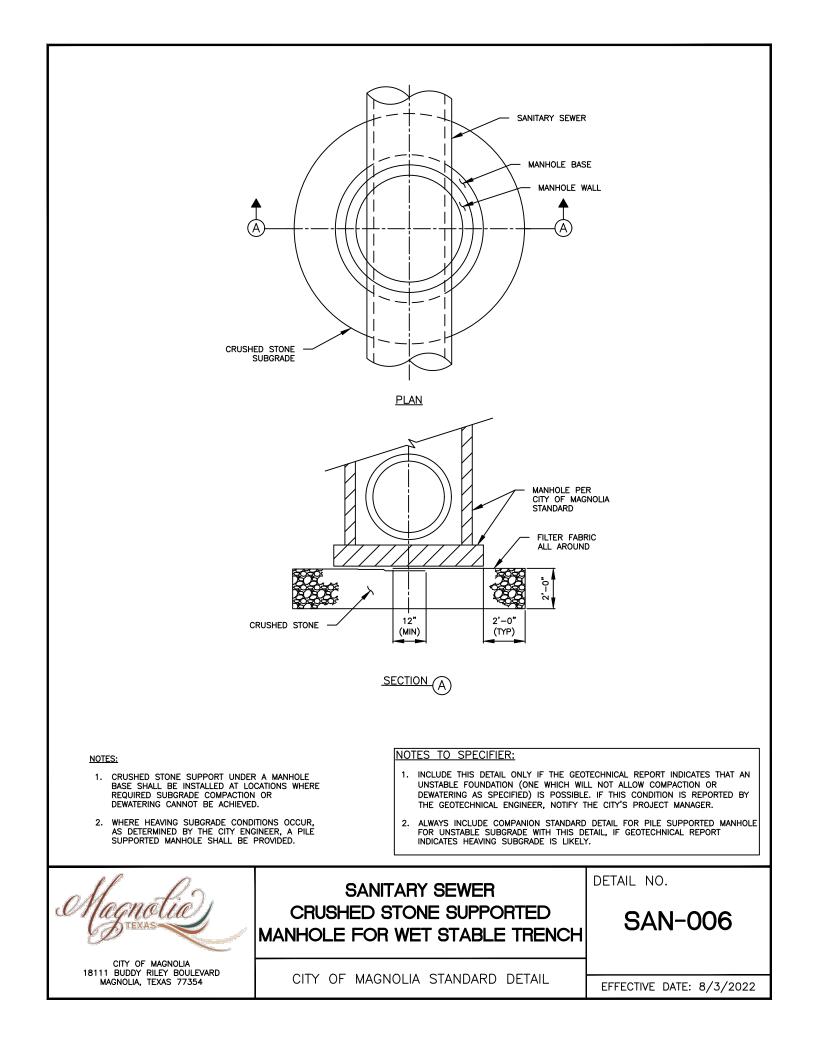
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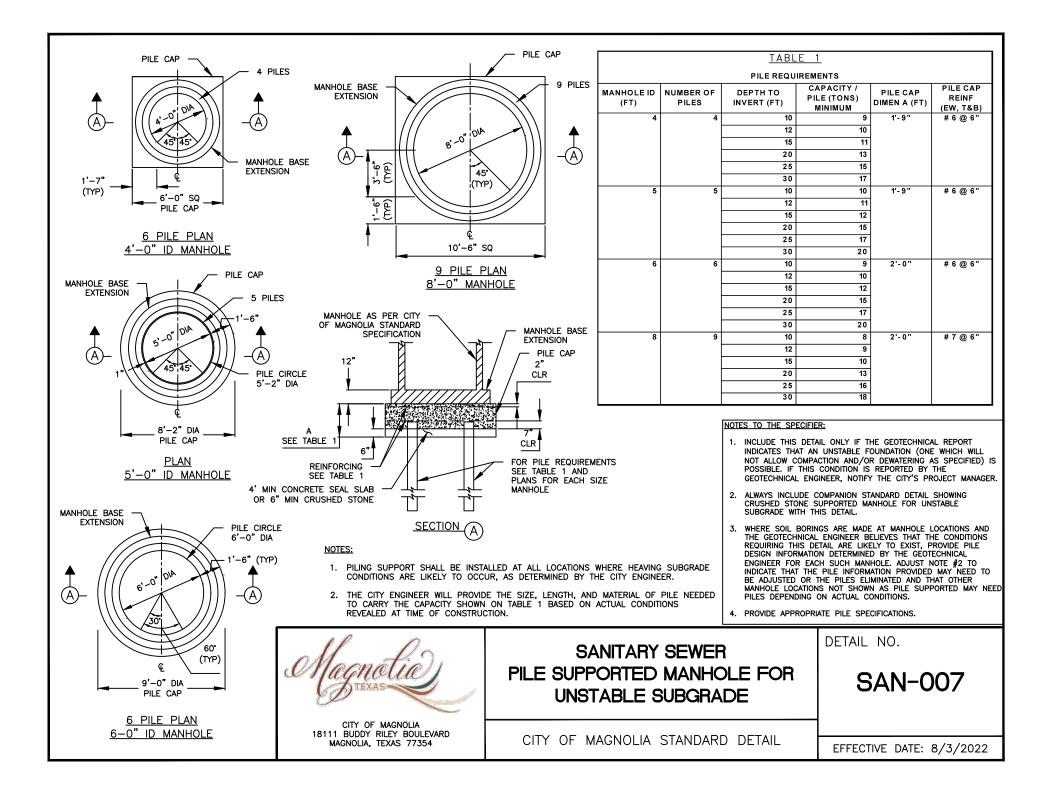
SAN-004

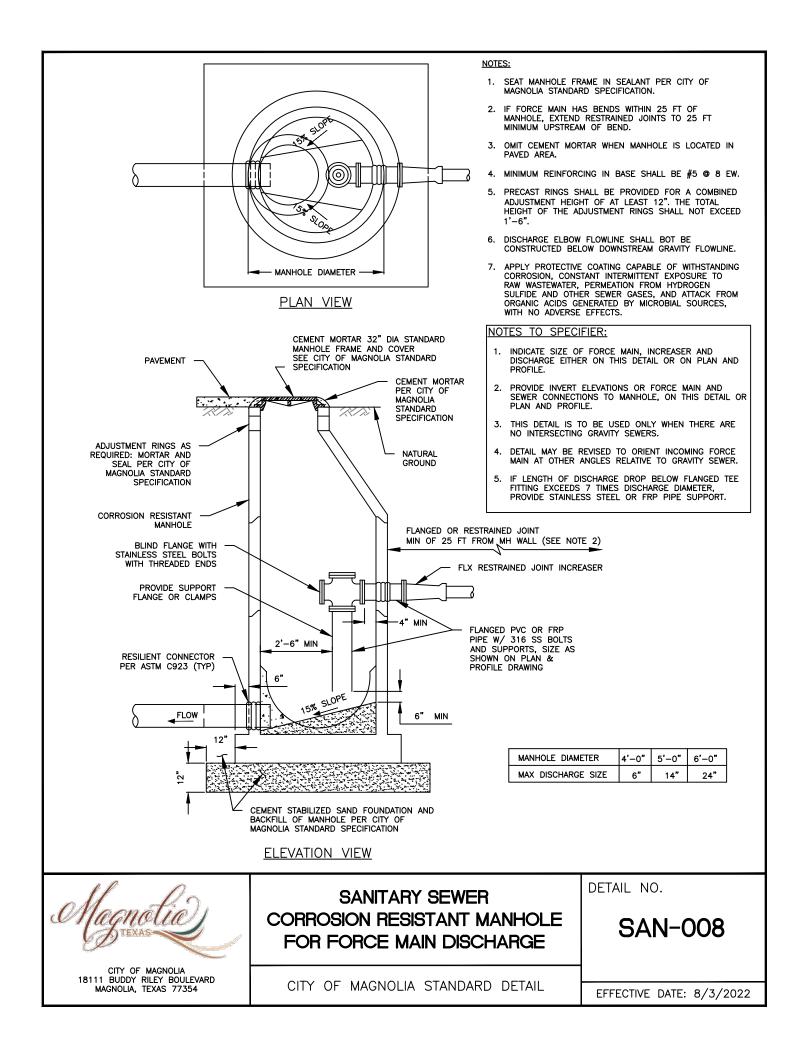
CITY OF MAGNOLIA STANDARD DETAIL

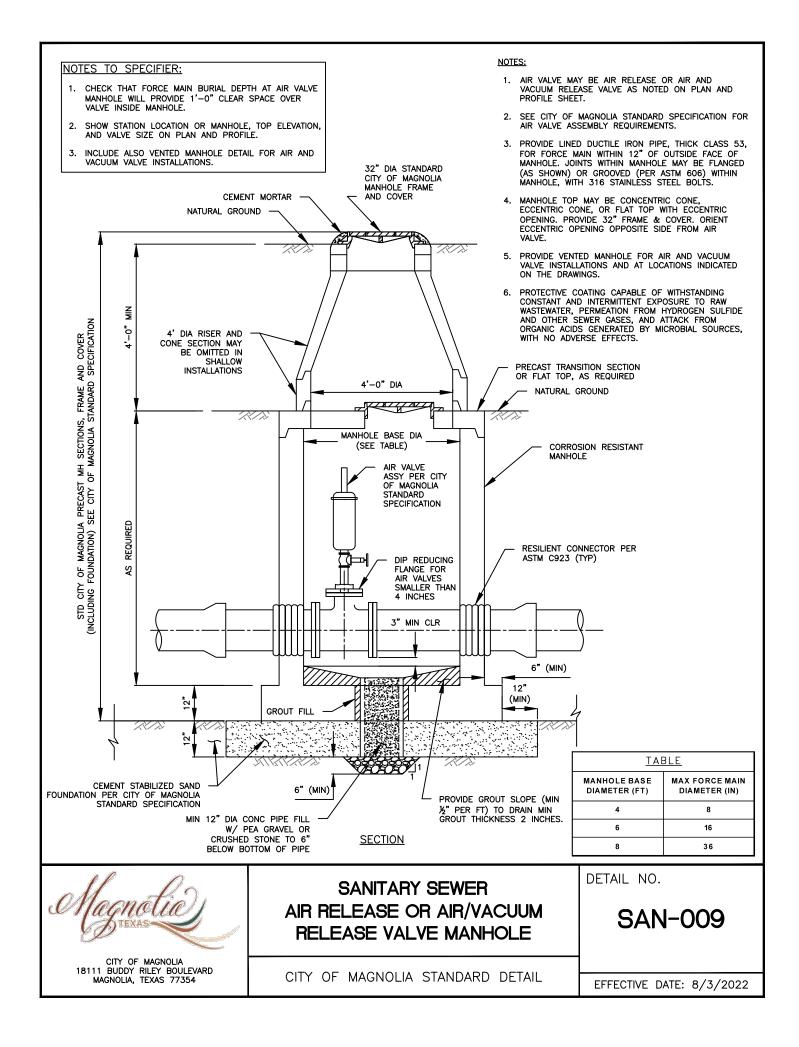
EFFECTIVE DATE: 8/3/2022

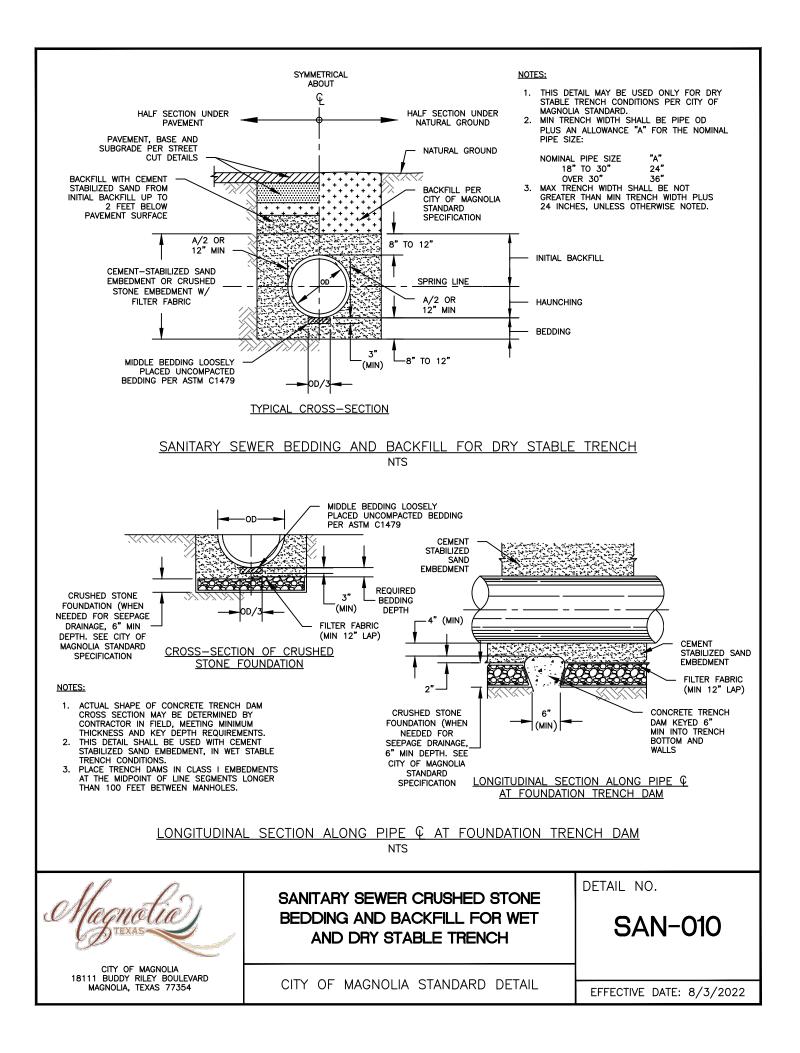


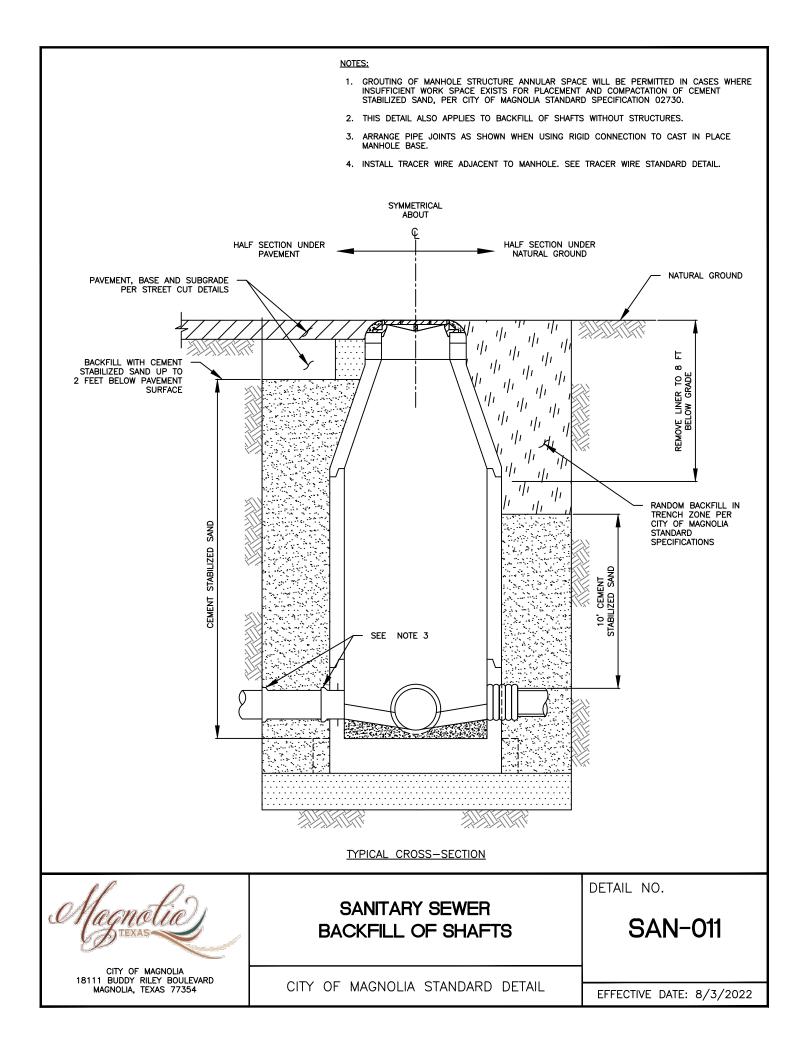


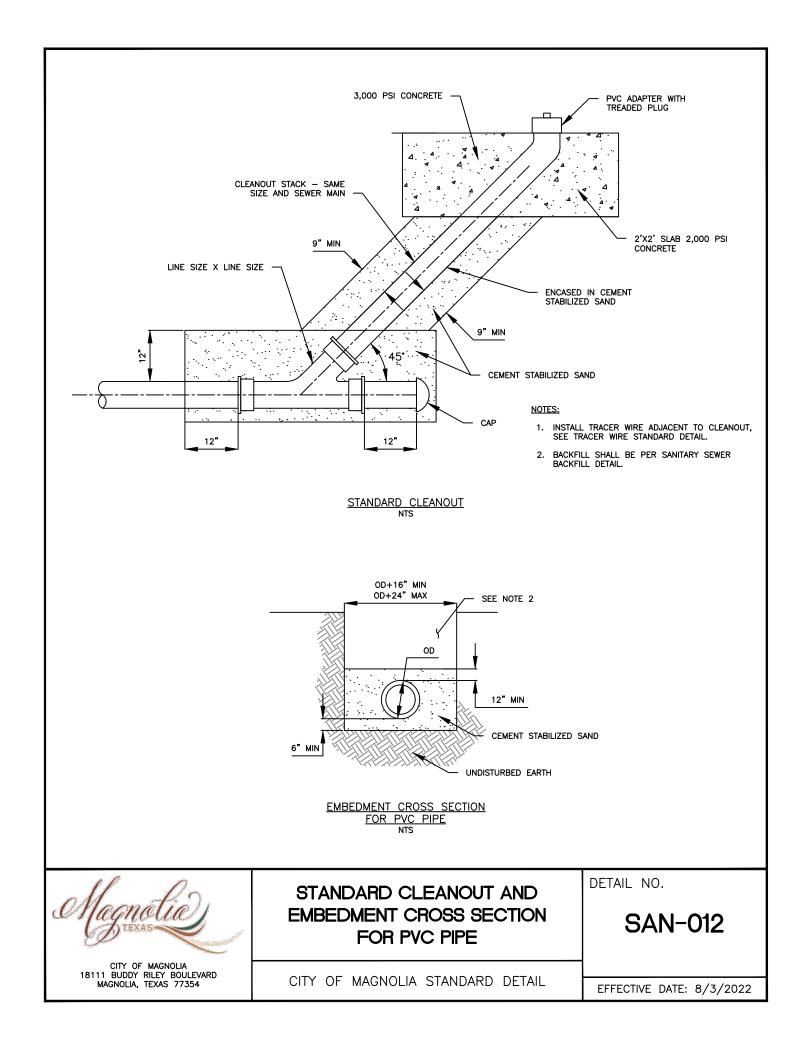


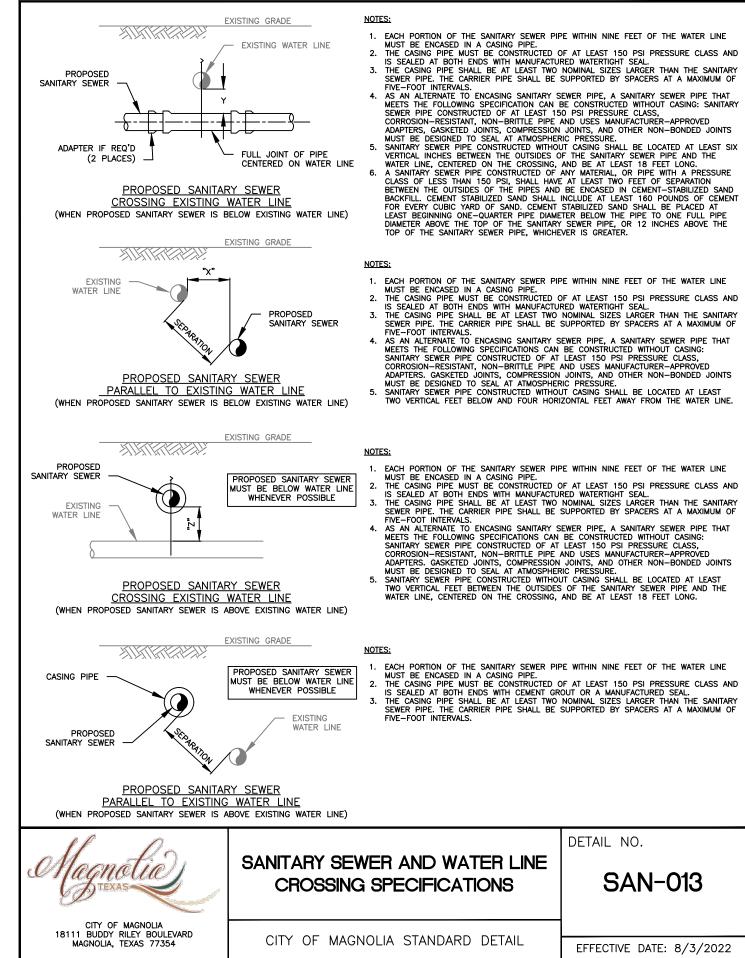












- EFFECTIVE DATE: 8/3/2022
- **SAN-013**

- EACH PORTION OF THE SANITARY SEWER PIPE WITHIN NINE FEET OF THE WATER LINE MUST BE ENCASED IN A CASING PIPE. THE CASING PIPE MUST BE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS AND IS SEALED AT BOTH ENDS WITH MANUFACTURED WATERTIGHT SEAL. THE CASING PIPE SHALL BE AT LEAST TWO NOMINAL SIZES LARGER THAN THE SANITARY SEWER PIPE. THE CARRIER PIPE SHALL BE SUPPORTED BY SPACERS AT A MAXIMUM OF
- FIVE-FOOT INTERVALS. AS AN ALTERNATE TO ENCASING SANITARY SEWER PIPE, A SANITARY SEWER PIPE THAT MEETS THE FOLLOWING SPECIFICATIONS CAN BE CONSTRUCTED WITHOUT CASING: SANITARY SEWER PIPE CONSTRUCTED OF AT LEAST 150 PSI PRESSURE CLASS, CORROSION-RESISTANT, NON-BRITTLE PIPE AND USES MANUFACTURER-APPROVED ADAPTERS. GASKETED JOINTS, COMPRESSION JOINTS, AND OTHER NON-BONDED JOINTS MUST BE DESIGNED TO SEAL AT ATMOSPHERIC PRESSURE. SANITARY SEWER PIPE CONSTRUCTED WITHOUT CASING SHALL BE LOCATED AT LEAST TWO VERTICAL FEET BELOW AND FOUR HORIZONTAL FEET AWAY FROM THE WATER LINE.

