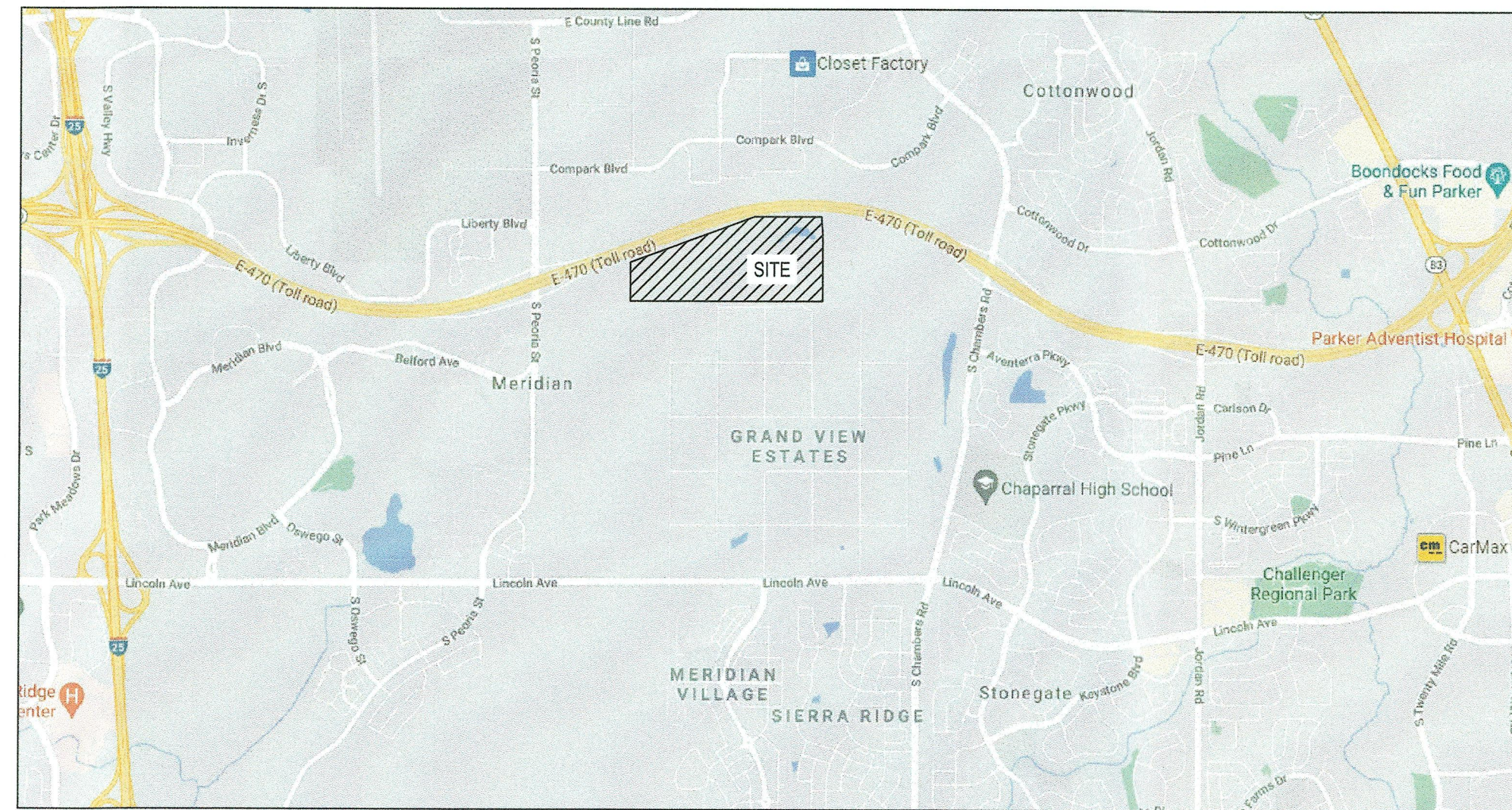


# SVMD SANITARY AND WATER CONSTRUCTION PLANS FOR: COMPARK VILLAGE SOUTH TRACT A, FILING NO. 1 AMENDMENT 1

COMPARK VILLAGE SOUTH,  
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

## TRACT A, COMPARK VILLAGE SOUTH FILING NO. 1, AMENDMENT 1, LOCATED IN THE SOUTH HALF OF SECTION 6, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO STONEGATE VILLAGE METRO DISTRICT WATER AND SANITARY SEWER PLAN



Vicinity Map

N.T.S.

PROPOSED		EXISTING		
CATV	CATV	CATV	CATV	CABLE TV LINE W/ PEDESTAL
E	E	EX E	EX E	ELECTRIC LINE W/ BOX, METER, AND LIGHT
OHE	OHE	EX OHE	EX OHE	OVERHEAD ELECTRIC WITH POLE
OHE/C	OHE/C	EX OHE/C	EX OHE/C	OVERHEAD ELECTRIC COMMUNICATIONS
UE	UE	EX UE	EX UE	UNDERGROUND ELECTRIC
FO	FO	EX FO	EX FO	FIBER OPTIC LINE W/ TRAFFIC CONTROL BOX
F	F	EX F	EX F	FIRE
G	G	EX G	EX G	GAS LINE W/ DRY UTILITY VAULT
IRR	IRR	EX IRR	EX IRR	IRRIGATION
SS	SS	EX SS	EX SS	SANITARY SEWER W/ MANHOLE
SD	SD	EX SD	EX SD	STORM SEWER FES W/ MAHNOLE, RIPRAP
T	T	EX T	EX T	TELEPHONE LINE W/ PEDESTAL
OHT	OHT	OHT	OHT	OVERHEAD TELEPHONE
W	W	EX W	EX W	WATER LINE, VALVE, FITTINGS, METER, AND HYDRANT
T	T	EX T	EX T	UNDERDRAIN
				CURB AND GUTTER
				WHEEL STOP
				CONTOURS
				TRASH ENCLOSURE
UD	UD	UD	UD	UNDERDRAIN W/ TYPE R INLET
X	X	X	X	FENCE LINE
				DRAINAGE SWALE
				RIGHT-OF-WAY
				SECTION LINE
				PROPERTY LINE
				LOT LINE
				EASEMENT
				IRRIGATION CONTROL VALVE BOX
				PEDESTRIAN LIGHT
				STREET LIGHT
				TRAFFIC LIGHT
				SPOT ELEVATION
				FLOW OF WATER
				SIGN

### ABBREVIATION LEGEND

TW	GRADE AT TOP OF WALL
BG	GRADE AT BOTTOM OF WALL
PC	POINT OF CURVE
PT	POINT OF TANGENT
Δ	DELTA, HORIZONTAL CURVE DIRECTION CHANGE
CL	CENTERLINE
FL	FLOWLINE
DBL	DOUBLE
C.O.	CLEAN OUT
K	RATE OF CURVATURE
AD	ABSOLUTE GRADE DIFFERENCE IN %
VC	VERTICAL CURVE
PVT	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL TANGENT
PI	POINT OF VERTICAL INTERSECTION
ROW	RIGHT OF WAY
PVMT	PAVEMENT
HP	HIGH POINT
LP	LOW POINT
PCR	POINT OF CURB RETURN
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
EX, EX.	EXISTING
PR, PR.	PROPOSED
ME	MATCH EXISTING
TC	BACK TOP OF CURB
FG	FINISHED GRADE
STA	STATION
EL, ELEV	ELEVATION
FF	FINISHED FLOOR
TC	TOP OF CONCRETE
BP	BOTTOM OF PIPE
T/P	TOP OF PIPE
Ø	DIAMETER
UE	UTILITY EASEMENT
ESMT	EASEMENT
HCL	HORIZONTAL CONTROL LINE
N	NORTH/NORTHING
E	EAST/EASTING
W	WEST
S	SOUTH
R	RADIUS
LC	LENGTH OF CORD
L	LENGTH
CB	CHORD BEARING

**DEVELOPER/ OWNER**  
CENTURY COMMUNITIES  
8390 E. CRESCENT PARKWAY,  
SUITE 650, GREENWOOD VILLAGE,  
CO 80111  
PHONE: 303-770-8300  
CONTACT: CINDY MYERS

**SURVEYOR**  
MERRICK & COMPANY  
5970 GREENWOOD PLAZA BLVD.  
GREENWOOD VILLAGE, CO 80111  
PHONE: 303-751-0741  
CONTACT: KENNETH G. OUELLETTE, PLS

**PLANNER**  
PCS GROUP  
200 KLAMATH ST, DENVER, CO  
80223  
PHONE: 720-259-8248  
CONTACT: PAUL SHOUKAS

**ENGINEER**  
MERRICK & COMPANY  
5970 GREENWOOD PLAZA BLVD.  
GREENWOOD VILLAGE, CO 80111  
PHONE: 303-751-0741  
CONTACT: KRISTOFER K. WIEST, PE

### TOWN & UTILITY CONTACTS

**TOWN OF PARKER**  
CONTACT: MIKE WAUGH  
PHONE: 303-840-9546

**INTERMOUNTAIN REA**  
CONTACT: BROOKS KAUFMAN  
PHONE: 303-688-3100

**CENTURY LINK**  
CONTACT: WILLIAM BENSON  
PHONE: 303-320-8333

**SOUTH METRO FIRE DISTRICT**  
CONTACT: MICHELLE HERJAN  
PHONE: 720-488-7200

**COMCAST**  
CONTACT: KEVIN YOUNG  
PHONE: 720-490-3867

**XCEL ENERGY**  
CONTACT: MICHELLE O'NAN  
PHONE: 303-329-1618

**STONEGATE VILLAGE METRO DISTRICT**  
CONTACT: SCOTT BARNETT  
PHONE: 303-649-9857

### DISTRICT APPROVALS

THESE DESIGN PLANS AND CONTRACT DOCUMENTS ARE REVIEWED FOR CONCEPT AND GENERAL CONFORMANCE TO THE DISTRICT'S MINIMUM STANDARDS ONLY, AND THE PRIMARY RESPONSIBILITY FOR THE DESIGN ADEQUACY IS TO REMAIN WITH THE ENGINEER OF RECORD. THIS REVIEW DOES NOT IMPLY RESPONSIBILITY BY EITHER THE STONEGATE VILLAGE METROPOLITAN DISTRICT OR THE DISTRICT ENGINEER FOR COMPLETENESS, ACCURACY OR CORRECTNESS OF CALCULATIONS. THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS INDICATED ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE STONEGATE VILLAGE METROPOLITAN DISTRICT FOR ADDITIONAL ITEMS AND ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.

APPROVED FOR CONSTRUCTION WITHIN ONE YEAR OF THIS DATE:

BY: Scott Barnett  
STONEGATE VILLAGE METROPOLITAN DISTRICT ENGINEER  
DATE: 7/19/2024



THIS WORK WAS DONE BY ME,  
OR UNDER MY SUPERVISION

Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
01	COVER SHEET	C7.1
02	GENERAL NOTES	C7.2
03	OVERALL UTILITY PLAN	C7.3
04	WATER-P&P	C7.4
05	SAN-P&P	C7.5
06	STANDARD DETAILS - WATER	C7.6
07	STANDARD DETAILS - WATER	C7.7
08	STANDARD DETAILS - WATER	C7.8
09	STANDARD DETAILS - WATER	C7.9
10	STANDARD DETAILS - WATER	C7.10
11	STANDARD DETAILS - SANITARY	C7.11
12	STANDARD DETAILS - SANITARY	C7.12

WATER MAIN QUANTITIES		
DESCRIPTION	AMOUNT	UNIT
8" PVC WATER MAIN	683.96	LF
8" TO 6" TEEW/KICK BLOCK	33	EACH
8" 11.25 DEGREE BEND	1	EACH
8" 22.5 DEGREE BEND	1	EACH
VERTICAL BEND	2	EACH
FIRE HYDRANT ASSEMBLY	1	EACH
REMOVE EXISTING 8" PLUG AND MAKE DRY CONNECT	2	EACH

SANITARY SEWER MAIN QUANTITIES		
DESCRIPTION	AMOUNT	UNIT
8" SANITARY SEWER MAIN (0-36" DEPTH)	603.6	LF
4" DIAMETER MANHOLES (0-20' DEPTH)	2	EACH
CONNECTION TO EXISTING SANITARY SEWER	1	EACH

### FIRE/LIFE SAFETY REVIEW BLOCK

All fire hydrants shall be installed according to water utility standards. The number and locations of the fire hydrants as shown on the Overall Utility Plan are correct as specified by the Town of Parker, Community Development Department.

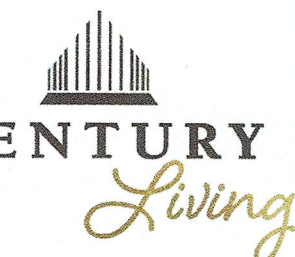
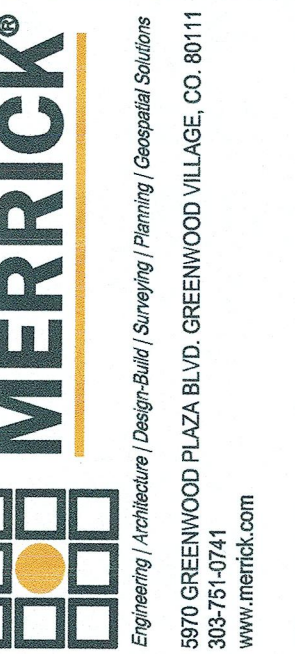
Fire Code Official or Designated Representative

(NOTE - Underground Fire Line (UFL) submittal documents must meet the requirements of NFPA 24 when submitting for review.)

The Town of Parker review constitutes general compliance with the Town's Standards and approved variances, subject to these plans being stamped, signed, and dated by the professional engineer of record. Review by the Town does not constitute approval of the plan design or accuracy and correctness of engineering calculations. Errors in the design or calculations remain the responsibility of the registered professional engineer whose stamp and signature are affixed to this document.

This review does not constitute approval of any private on-site improvements which may be shown. Construction cannot commence until all required drainage/traffic report(s), final development plan(s), special review(s), grading permit, and/or other permits are complete, approved and on file with the Town of Parker.

Town of Parker, Director of Engineering/Public Works



## COMPARK VILLAGE SOUTH WATER AND SANITARY PLANS COVER SHEET



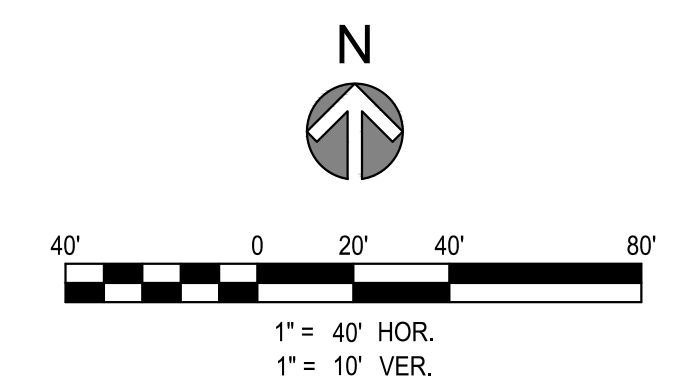
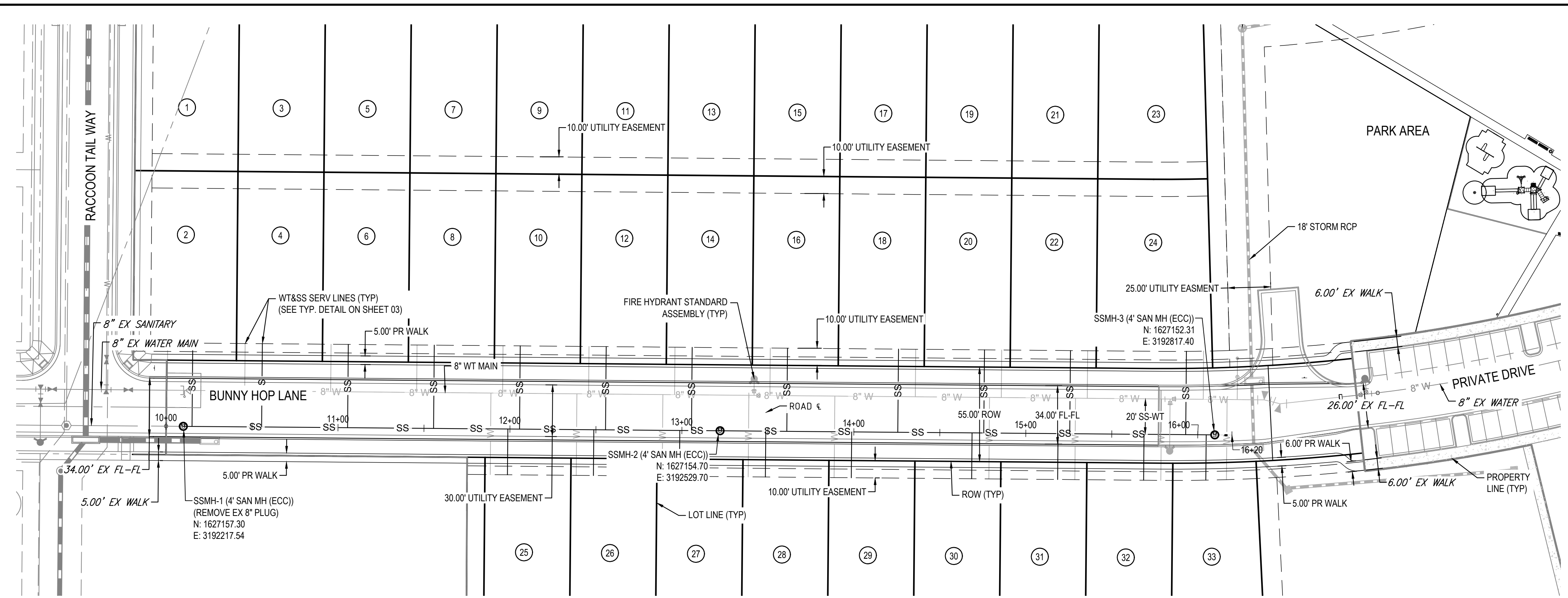
JOB NUMBER	120950
DATE	07/11/2024
SHEET	C7.1
	01





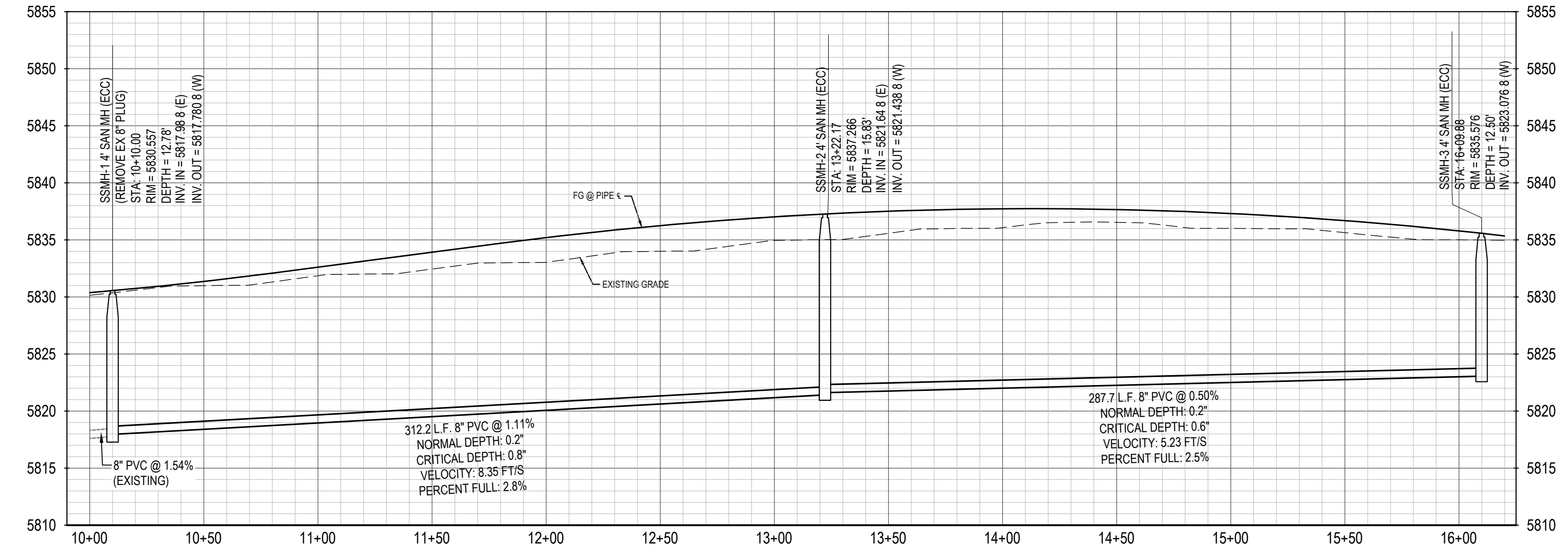


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- NOTES:**
1. ALL STATIONING & PIPE LENGTHS ARE TO CENTER OF STRUCTURE.
  2. ALL SANITARY SEWER PVC TO BE SDR 35 PVC UNLESS SPECIFIED OTHERWISE.
  3. CONTRACTOR TO VERIFY LOCATION/ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
  4. ALL MANHOLES TO HAVE 48" INNER DIAMETER.

BUNNY HOP LANE SANITARY PROFILE

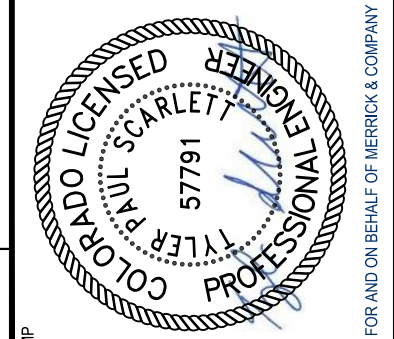


SANITARY SEWER SERVICE TABLE					
PLOT NUMBER	LENGTH (FT)	SLOPE	INV @ MAN	FG @ MAIN	INV @ STUB
1	26.47	2.00%	5806.36	5822.18	5806.00
2	58.45	2.00%	5819.03	5830.65	5820.10
3	26.47	2.00%	5806.51	5822.61	5806.15
4	48.31	2.00%	5818.44	5831.44	5820.43
5	26.47	2.00%	5806.96	5823.82	5808.47
6	48.31	2.00%	5819.04	5832.75	5820.99
7	26.47	2.00%	5807.21	5824.61	5808.72
8	48.31	2.00%	5819.59	5834.06	5821.54
9	26.47	2.00%	5807.46	5825.49	5809.97
10	48.31	2.00%	5820.15	5835.33	5822.10
11	26.47	2.00%	5807.91	5826.29	5809.41
12	48.31	2.00%	5820.70	5836.34	5822.65
13	26.47	2.00%	5808.16	5827.25	5809.67
14	48.31	2.00%	5821.25	5837.09	5823.20
15	26.47	2.00%	5808.41	5827.95	5809.92
16	48.31	2.00%	5821.83	5837.58	5823.78
17	26.47	2.00%	5808.66	5827.85	5810.17
18	48.35	2.00%	5822.16	5837.72	5824.11
19	26.47	2.00%	5809.21	5827.85	5810.72
20	48.34	2.00%	5822.40	5837.51	5824.35
21	26.47	2.00%	5809.46	5827.25	5810.97
22	48.32	2.00%	5822.55	5837.02	5824.60
23	27.87	2.00%	5809.78	5826.62	5811.29
24	48.49	2.00%	5822.99	5835.93	5824.94
25	26.60	2.00%	5820.07	5835.17	5821.58
26	26.60	2.00%	5820.63	5836.22	5822.14
27	26.60	2.00%	5821.18	5837.00	5822.69
28	26.60	2.00%	5821.77	5837.50	5823.28
29	26.60	2.00%	5822.02	5837.72	5823.53
30	26.67	2.00%	5822.37	5837.56	5823.88
31	26.68	2.00%	5822.62	5837.10	5824.13
32	26.69	2.00%	5822.87	5836.38	5824.38
33	26.31	2.00%	5823.05	5835.68	5824.56



REV	REVISION DESCRIPTION	DATE	CHKD	APPR
0	ISSUED FOR CONSTRUCTION	7/19/2024		

**COMPARK VILLAGE SOUTH**  
WATER AND SANITARY  
PLANS  
SAN-P&P



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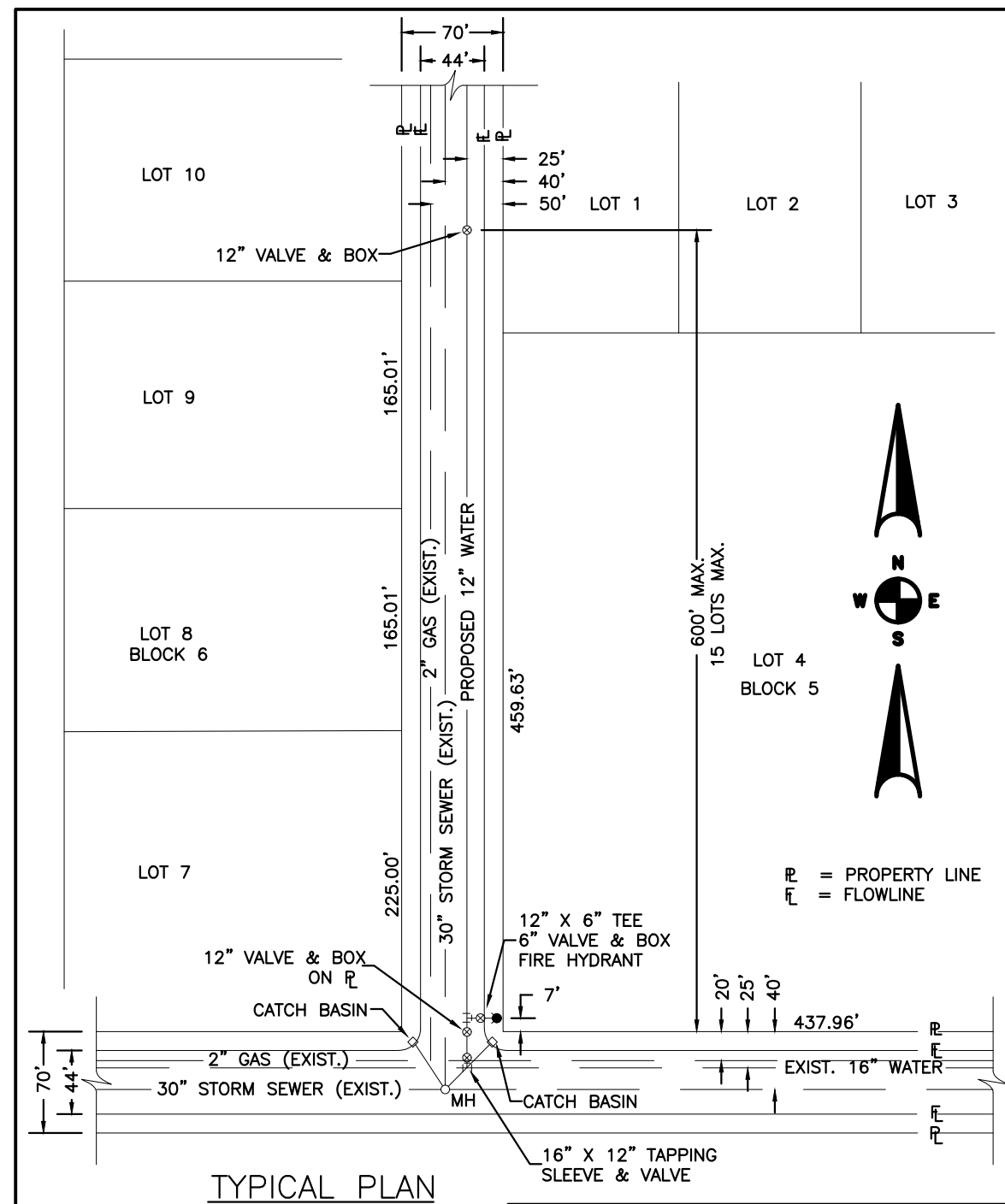
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Town of Parker, Director of Engineering/Public Works



JOB NUMBER	120950
DATE	07/11/2024
SHEET	C7.5
	05

THE NEW ORLEANS SUBURBAN METRO DEVELOPMENT IS AN INSTRUMENT OF SERVICE PREPARED BY MERRICK AND COMPANY, INC. A REGISTERED PROFESSIONAL ENGINEER. IT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR USE IN ANY OTHER JURISDICTION WITHOUT THE PRIOR WRITTEN CONSENT OF MERRICK AND COMPANY. IT IS THE USER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS AND TO VERIFY THE ACCURACY OF ALL INFORMATION AND DATA PROVIDED HEREON.



**TYPICAL PLAN**

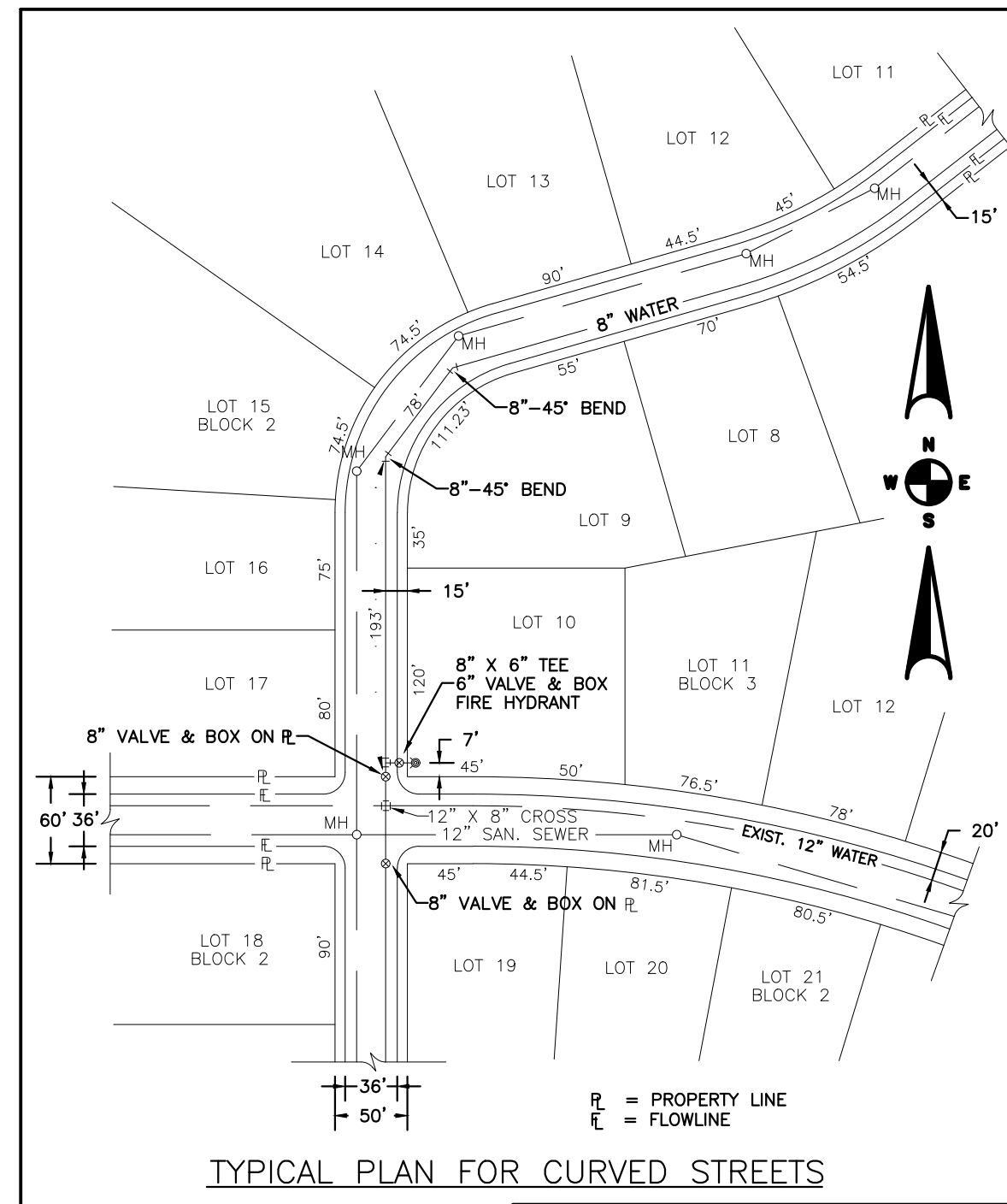
NOTES:  
 1. SEE "TYPICAL STREET CROSS SECTION - TYPICAL STREET Q<sub>1</sub> PROFILE" DRAWING.  
 2. ALL FIRE HYDRANTS TO BE LOCATED AT POINTS OTHER THAN CORNER INTERSECTIONS SHALL BE INSTALLED AT A LOT LINE EXTENDED.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 WATER DISTRIBUTION SYSTEM  
 TYPICAL PLAN

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 1



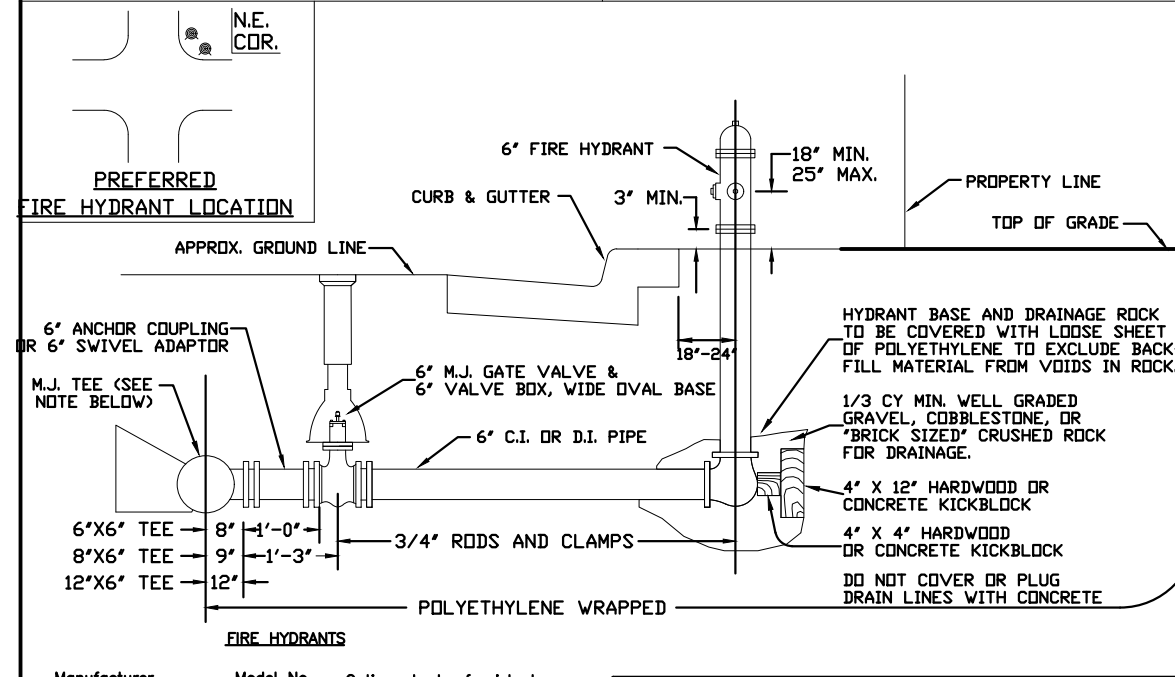
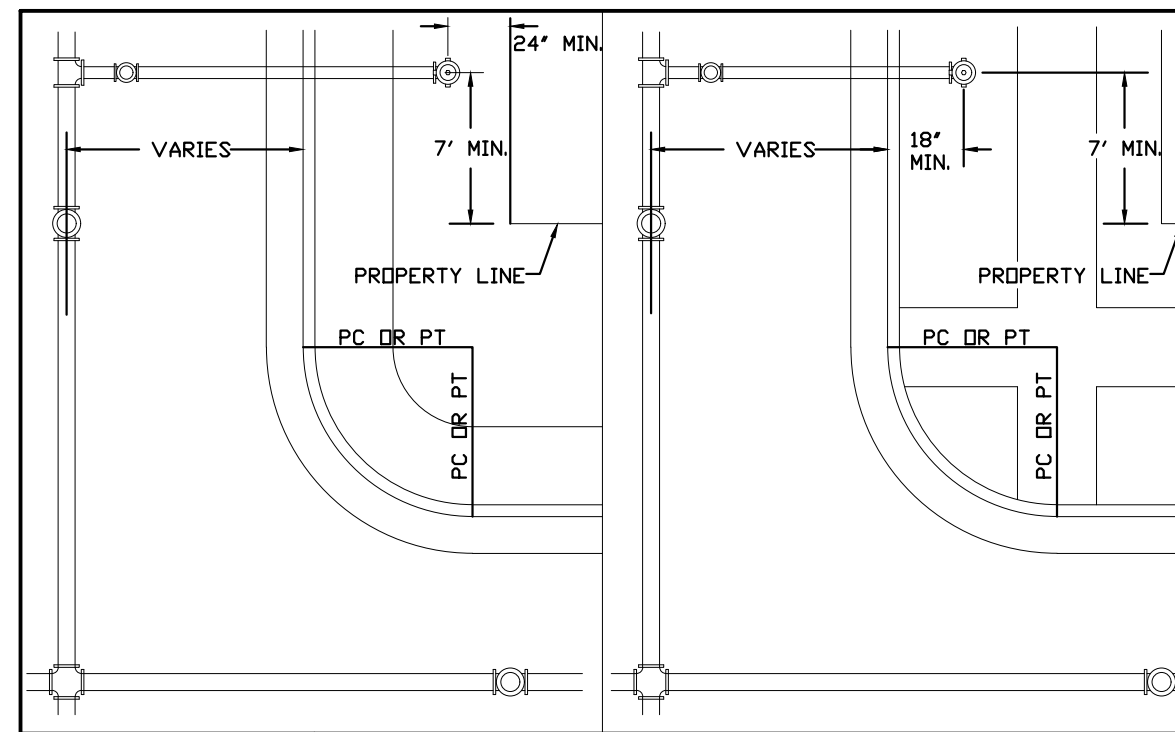
**TYPICAL PLAN FOR CURVED STREETS**

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 WATER DISTRIBUTION SYSTEM  
 TYPICAL PLAN FOR CURVED STREETS

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 3



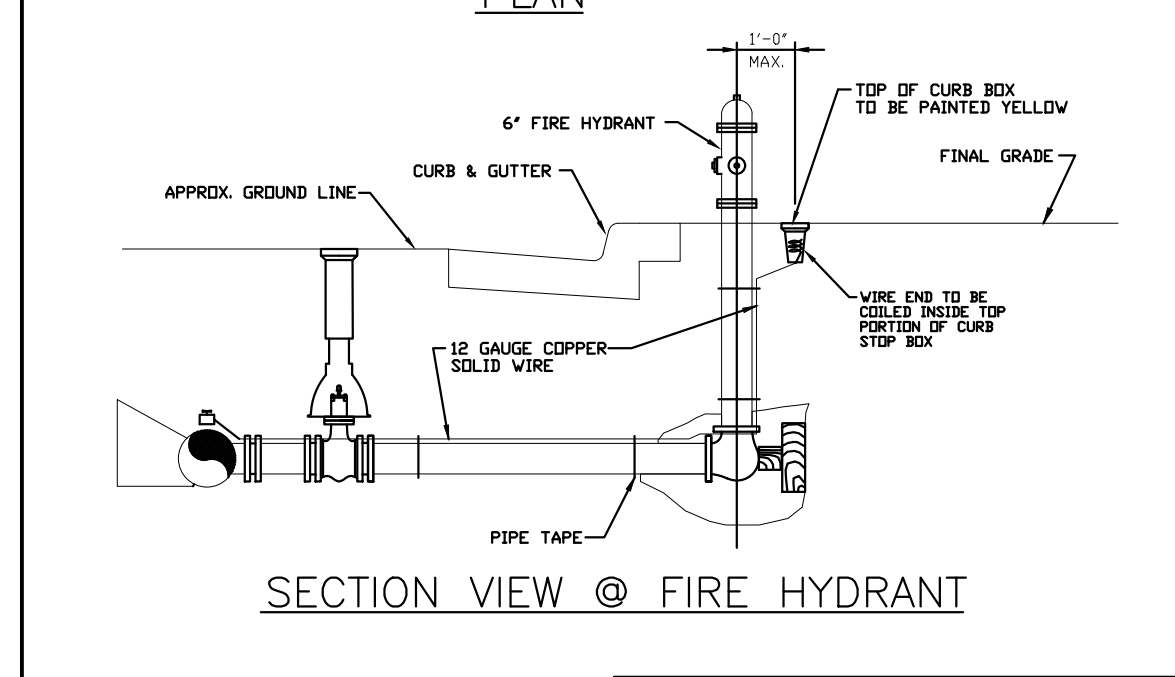
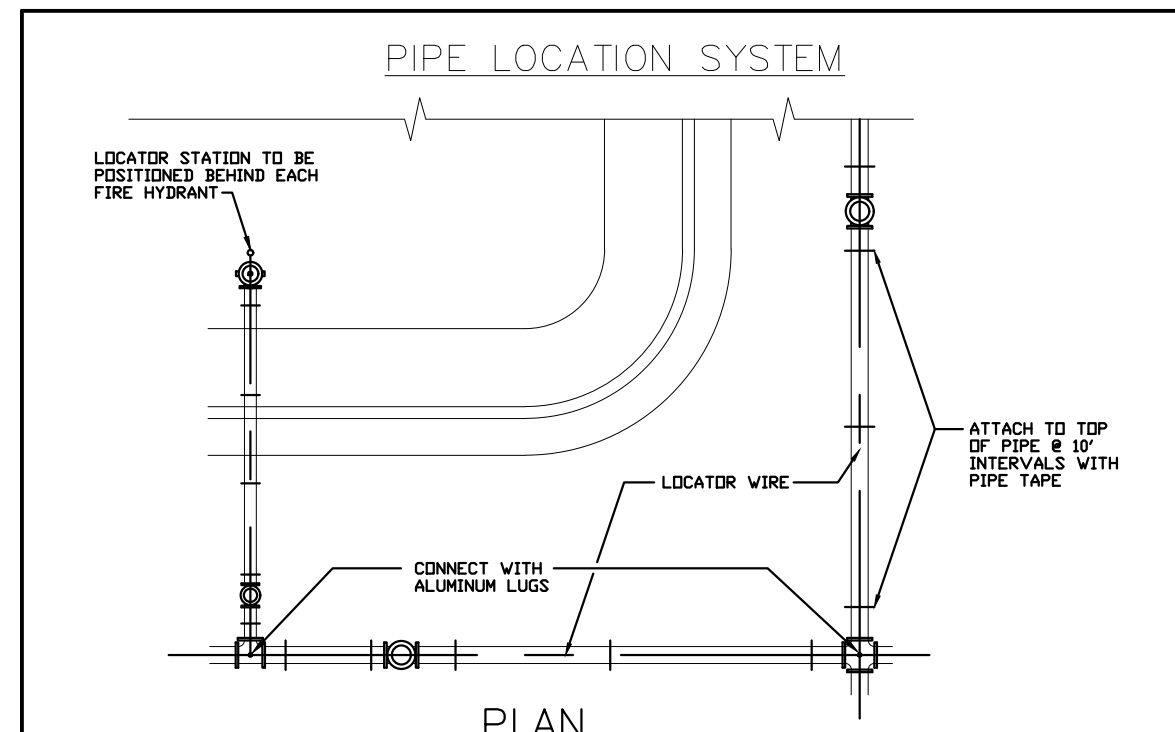
**FIRE HYDRANTS LOCATION & INSTALLATION**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 5



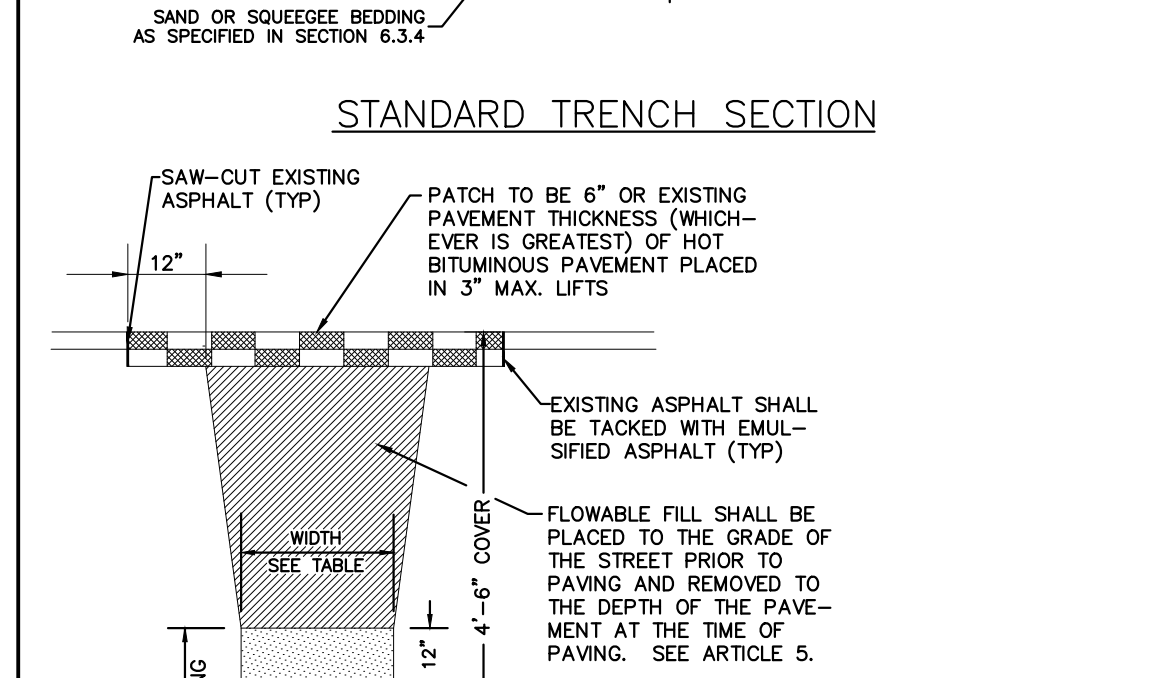
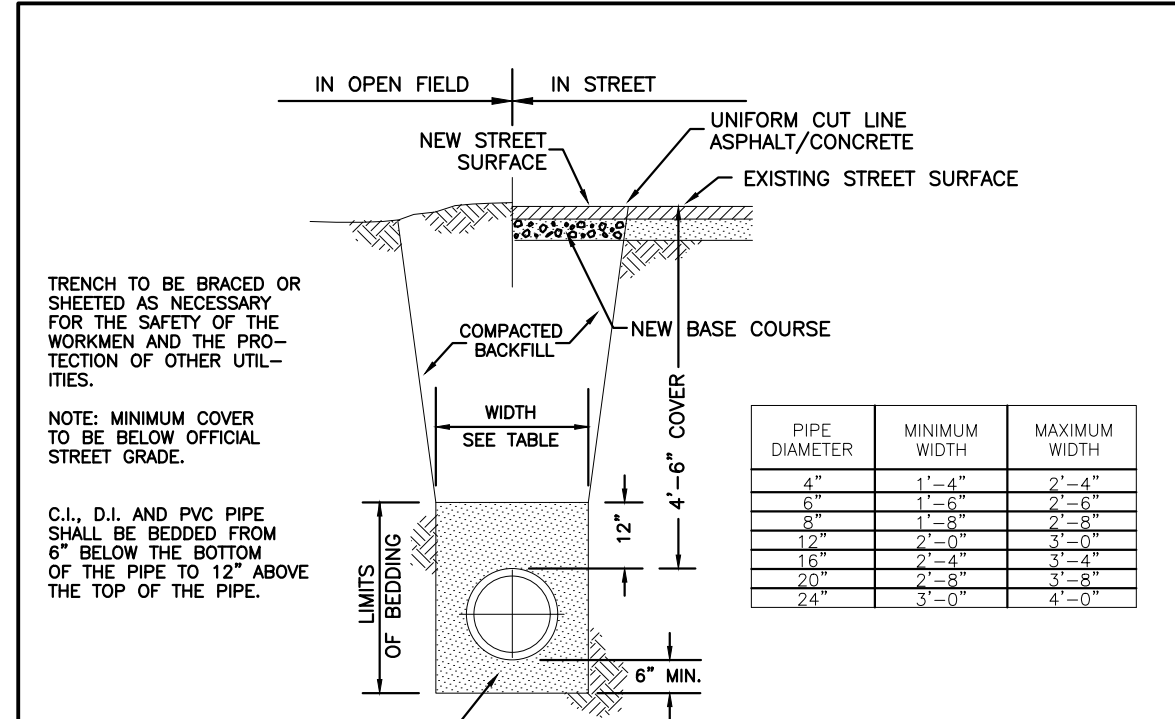
**LOCATOR WIRE DETAILS**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 6



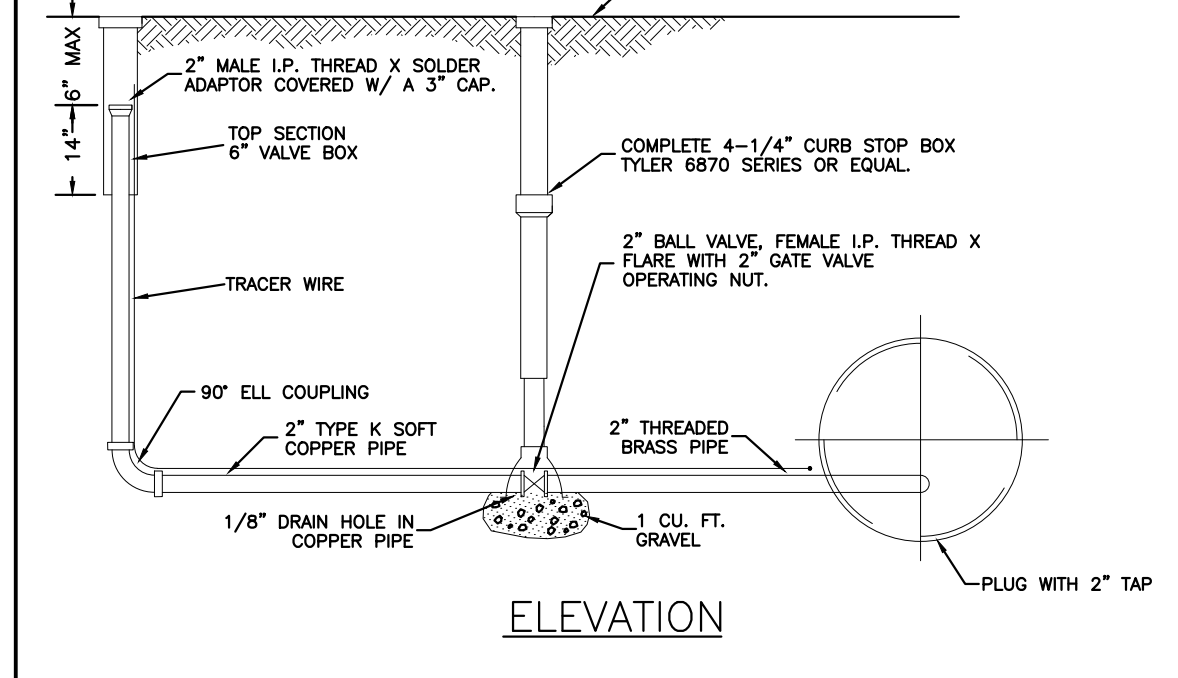
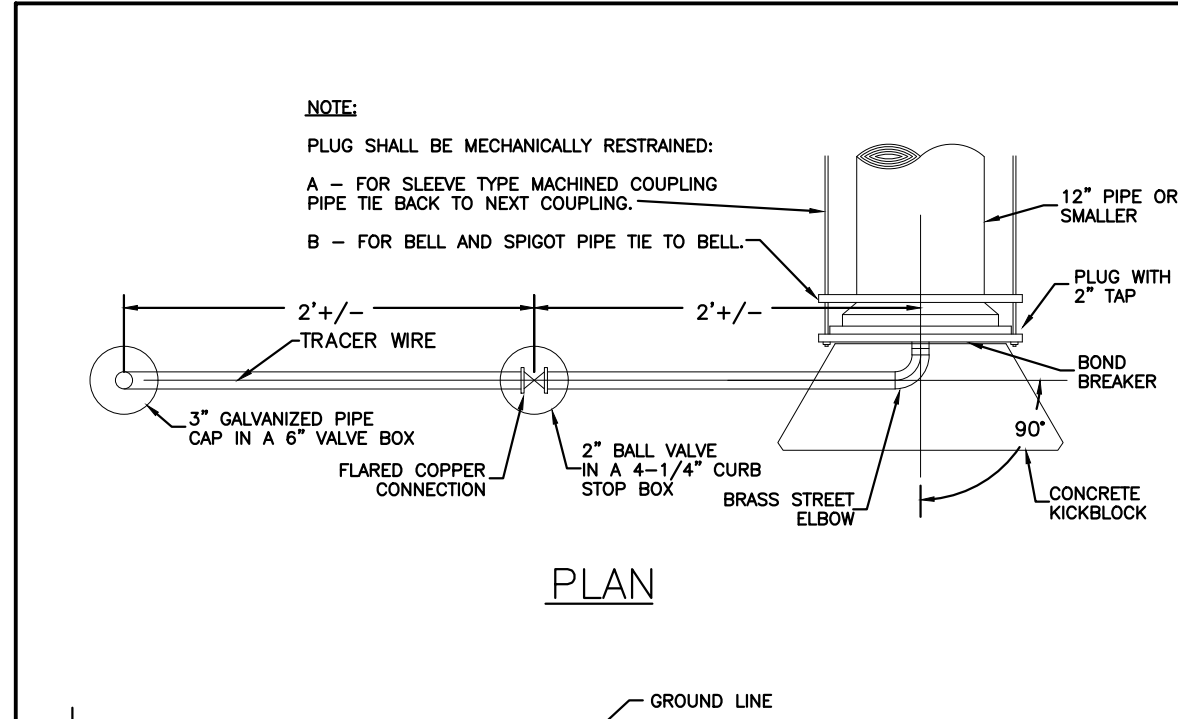
**TYPICAL TRENCH SECTION PIPE PROTECTION**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 8



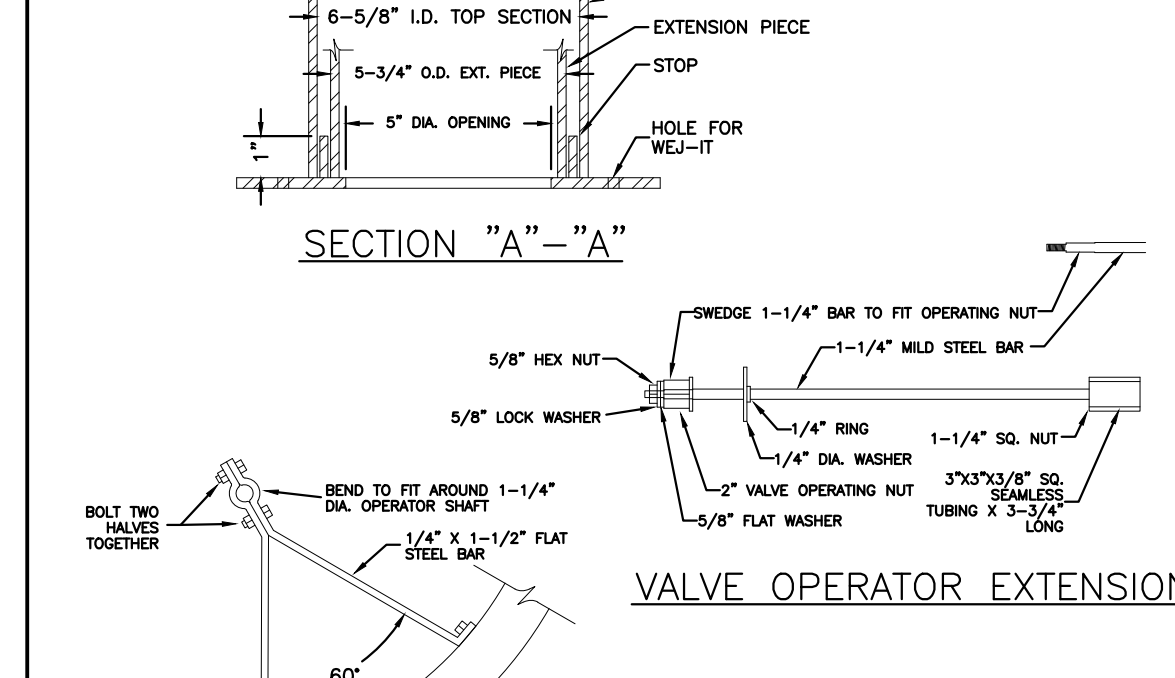
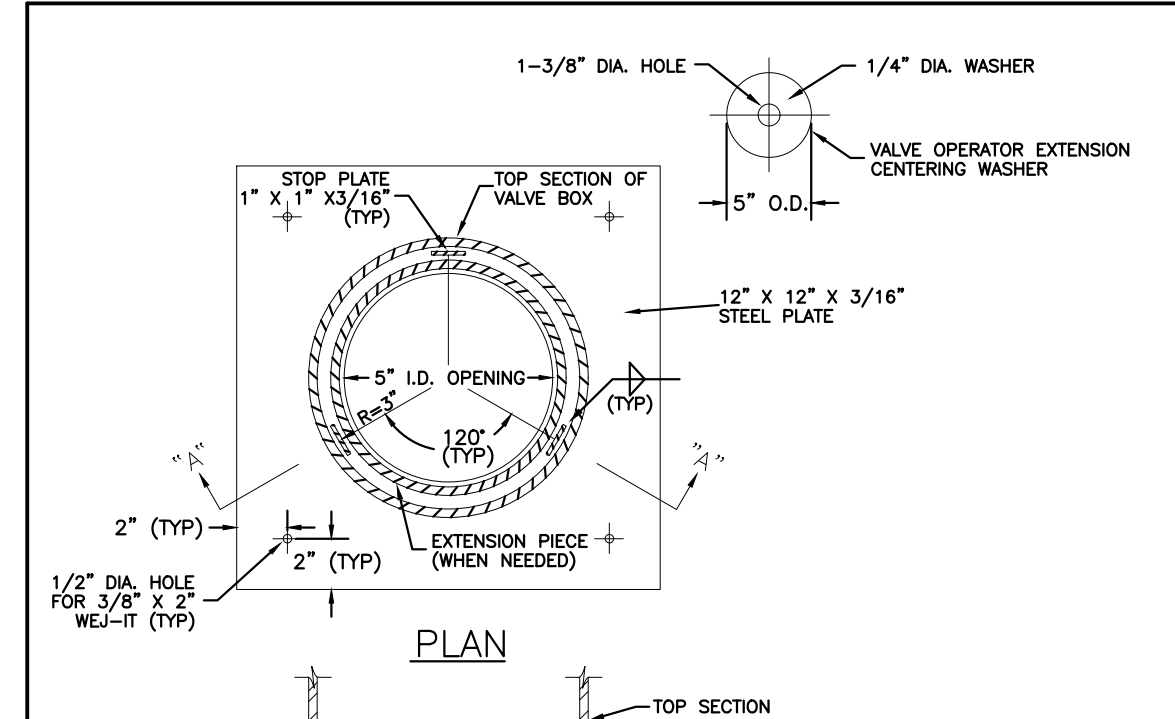
**BLOW-OFF INSTALLATION FOR 12" & SMALLER PIPE**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 9



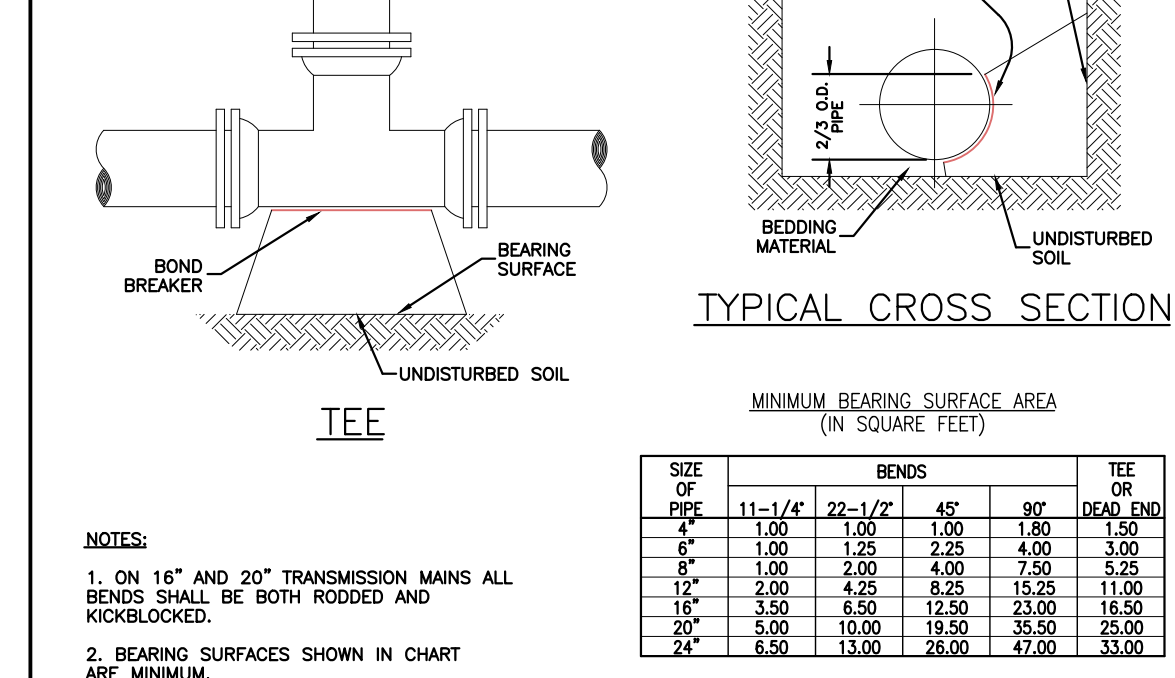
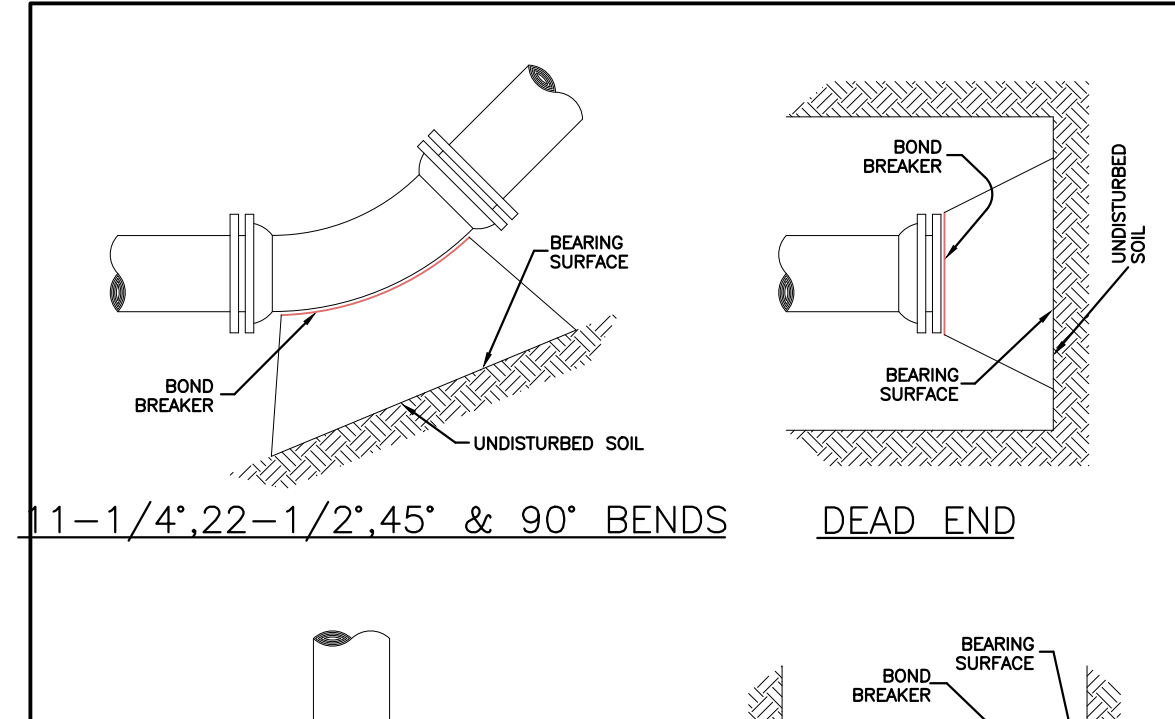
**VALVE BOX SUPPORT PLATE AND EXTENSION GUIDE**

STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 12



**CONCRETE KICKBLOCKS BEARING SURFACES AND INSTALLATION**

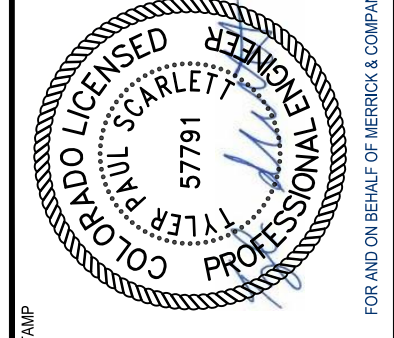
STONEGATE VILLAGE METROPOLITAN DISTRICT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION

SHEET 17

NO.	ISSUED FOR CONSTRUCTION	DATE	DESCRIPTION
0	ISSUED FOR CONSTRUCTION	7/19/2024	CHND/CHKD/APPR



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### LENGTH OF TIED PIPE

PIPE SIZE	4"		6"		8"		12"		16"		20"		24"													
	D	L	D	L	D	L	D	L	D	L	D	L	D	L												
3/4"	6.0	M.S.	3/4	13.0	M.S.	3/4	20.0	M.S.	3/4	30.0	M.S.	3/4	40.0	M.S.	1"	18.0	M.S.	1"	18.0	M.S.	1"	18.0	M.S.	1"	18.0	M.S.
1"	6.0	M.S.	1"	13.0	M.S.	1"	20.0	M.S.	1"	30.0	M.S.	1"	40.0	M.S.	1"	40.0	M.S.	1"	40.0	M.S.	1"	40.0	M.S.	1"	40.0	M.S.
1 1/4"	6.0	M.S.	1 1/4"	13.0	M.S.	1 1/4"	20.0	M.S.	1 1/4"	30.0	M.S.	1 1/4"	40.0	M.S.	1 1/4"	40.0	M.S.	1 1/4"	40.0	M.S.	1 1/4"	40.0	M.S.	1 1/4"	40.0	M.S.
2"	6.0	M.S.	2"	13.0	M.S.	2"	20.0	M.S.	2"	30.0	M.S.	2"	40.0	M.S.	2"	40.0	M.S.	2"	40.0	M.S.	2"	40.0	M.S.	2"	40.0	M.S.
2 1/2"	6.0	M.S.	2 1/2"	13.0	M.S.	2 1/2"	20.0	M.S.	2 1/2"	30.0	M.S.	2 1/2"	40.0	M.S.	2 1/2"	40.0	M.S.	2 1/2"	40.0	M.S.	2 1/2"	40.0	M.S.	2 1/2"	40.0	M.S.
3"	6.0	M.S.	3"	13.0	M.S.	3"	20.0	M.S.	3"	30.0	M.S.	3"	40.0	M.S.	3"	40.0	M.S.	3"	40.0	M.S.	3"	40.0	M.S.	3"	40.0	M.S.
4"	6.0	M.S.	4"	13.0	M.S.	4"	20.0	M.S.	4"	30.0	M.S.	4"	40.0	M.S.	4"	40.0	M.S.	4"	40.0	M.S.	4"	40.0	M.S.	4"	40.0	M.S.
4 1/2"	6.0	M.S.	4 1/2"	13.0	M.S.	4 1/2"	20.0	M.S.	4 1/2"	30.0	M.S.	4 1/2"	40.0	M.S.	4 1/2"	40.0	M.S.	4 1/2"	40.0	M.S.	4 1/2"	40.0	M.S.	4 1/2"	40.0	M.S.
5"	6.0	M.S.	5"	13.0	M.S.	5"	20.0	M.S.	5"	30.0	M.S.	5"	40.0	M.S.	5"	40.0	M.S.	5"	40.0	M.S.	5"	40.0	M.S.	5"	40.0	M.S.
6"	6.0	M.S.	6"	13.0	M.S.	6"	20.0	M.S.	6"	30.0	M.S.	6"	40.0	M.S.	6"	40.0	M.S.	6"	40.0	M.S.	6"	40.0	M.S.	6"	40.0	M.S.
8"	6.0	M.S.	8"	13.0	M.S.	8"	20.0	M.S.	8"	30.0	M.S.	8"	40.0	M.S.	8"	40.0	M.S.	8"	40.0	M.S.	8"	40.0	M.S.	8"	40.0	M.S.
10"	6.0	M.S.	10"	13.0	M.S.	10"	20.0	M.S.	10"	30.0	M.S.	10"	40.0	M.S.	10"	40.0	M.S.	10"	40.0	M.S.	10"	40.0	M.S.	10"	40.0	M.S.
12"	6.0	M.S.	12"	13.0	M.S.	12"	20.0	M.S.	12"	30.0	M.S.	12"	40.0	M.S.	12"	40.0	M.S.	12"	40.0	M.S.	12"	40.0	M.S.	12"	40.0	M.S.
14"	6.0	M.S.	14"	13.0	M.S.	14"	20.0	M.S.	14"	30.0	M.S.	14"	40.0	M.S.	14"	40.0	M.S.	14"	40.0	M.S.	14"	40.0	M.S.	14"	40.0	M.S.
16"	6.0	M.S.	16"	13.0	M.S.	16"	20.0	M.S.	16"	30.0	M.S.	16"	40.0	M.S.	16"	40.0	M.S.	16"	40.0	M.S.	16"	40.0	M.S.	16"	40.0	M.S.
18"	6.0	M.S.	18"	13.0	M.S.	18"	20.0	M.S.	18"	30.0	M.S.	18"	40.0	M.S.	18"	40.0	M.S.	18"	40.0	M.S.	18"	40.0	M.S.	18"	40.0	M.S.
20"	6.0	M.S.	20"	13.0	M.S.	20"	20.0	M.S.	20"	30.0	M.S.	20"	40.0	M.S.	20"	40.0	M.S.	20"	40.0	M.S.	20"	40.0	M.S.	20"	40.0	M.S.
22"	6.0	M.S.	22"	13.0	M.S.	22"	20.0	M.S.	22"	30.0	M.S.	22"	40.0	M.S.	22"	40.0	M.S.	22"	40.0	M.S.	22"	40.0	M.S.	22"	40.0	M.S.
24"	6.0	M.S.	24"	13.0	M.S.	24"	20.0	M.S.	24"	30.0	M.S.	24"	40.0	M.S.	24"	40.0	M.S.	24"	40.0	M.S.	24"	40.0	M.S.	24"	40.0	M.S.

TIE ROD

90° BEND

45° BEND

**NOTES:**

- LENGTH OF TIED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
- CLAMPS AND RODS NOT ALLOWED FOR 24" AND LARGER PIPES.
- D = DIAMETER, L = LENGTH, G = GRADE, M.S. = MILD STEEL, H.S. = HIGH STRENGTH
- MINIMUM 4.5' GROUND COVER REQUIRED.
- BASED ON 150 PSI INTERNAL PRESSURE.
- M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36.
- H.S. MEANS HIGH STRENGTH ROD A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES.
- NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES.
- CLAMP METALS AND SET CLAMP DETAILS.
- LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
- STAR BOLTS NOT ALLOWED ON PIPE LARGER THAN 16".
- MINIMUM OF 4 RODS REQUIRED ON 16" PIPE IF STAR BOLTS ARE USED.
- TEES ARE TO BE RODED ON BRANCH ONLY.
- ALL VALVES TO BE RODED IN BOTH DIRECTIONS.

STONEGATE VILLAGE METROPOLITAN DISTRICT

LENGTH OF TIED PIPE

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

TIE ROD DETAIL

WASHER DETAIL

ROD DIAMETER	THREAD	ROD LENGTH
3/4"	ALL THREAD	10 11 8 20
1"	ALL THREAD	10 11 8 20

WIDTH	HOLE DIAMETER	LENGTH	THICKNESS
3"	3/8"	6"	3/8"
4"	1/2"	7"	1/2"
6"	3/4"	9"	3/8"

**NOTES:**

- SEE TIED JOINTS ROD DIMENSIONS SHEET.
- SEE CLAMP DETAILS AND DIMENSIONS SHEET 23 FOR PROPER PLACEMENT OF WASHERS.

STONEGATE VILLAGE METROPOLITAN DISTRICT

TIE ROD AND WASHER DETAILS

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

TIE ROD COUPLING DETAIL

SECTION "A-A"

NOTE: BLACK IRON PIPE = SCHEDULE 40.

ROD SIZE	PIPE DIAMETER
3/4"	1"
1"	1-1/4"
1-1/4"	1-1/2"

STONEGATE VILLAGE METROPOLITAN DISTRICT

TIE ROD COUPLING

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

FLANGE LUG DETAIL

DIMENSIONS (IN INCHES)

PIPE DIA.	N	O	H.S. ROD			M.S. ROD			R	S	U	V	PIPE DIA.
			P	Q	ROD DIA.	P	Q	ROD DIA.					
4"	137/16	2-3/4	7/8	3/4	7/8	3/4	7/8	3/4	1-1/2	1-1/2	1-1/2	3/4	4"
6"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	6"
8"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	8"
10"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	10"
12"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	12"
14"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	14"
16"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	16"
18"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	18"
20"	23/4	4-1/4	7/8	3/4	7/8	3/4	7/8	3/4	1-3/4	1-3/4	1-3/4	3/4	20"

**NOTES:**

- M.S. MEANS MILD STEEL ROD A.S.T.M. STANDARD DESIGNATION A-36. (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-307 GRADE A OR B HEXAGON HEAVY SERIES).
- H.S. MEANS HIGH STRENGTH STEEL ROD A.S.T.M. STANDARD DESIGNATION A-193 GRADE 87. (NUTS SHALL BE A.S.T.M. STANDARD DESIGNATION A-194 GRADE 2H).
- FLANGE LUGS SHALL NOT BE USED ON VALVES.

STONEGATE VILLAGE METROPOLITAN DISTRICT

FLANGE LUG DETAIL

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

**PIPE BEDDING:**

(a) Installation of Bedding and Pipe: After completion of the trench excavation and proper preparation of the foundation, six inches (6") of bedding material shall be placed on the trench bottom for support under the pipe. Bed holes shall be dug deep enough to provide a minimum of two inches (2") of clearance between the bed and bedding material. All pipe shall be installed in such a manner as to insure full support of the pipe barrel over its entire length. After the pipe is adjusted for line and grade, and the joint is made, the bedding material shall be carefully placed and tamped under the haunches of the pipe and in the previously dug bed holes.

Tamping is herein defined as the act of placing approved bedding material under the haunches of the pipe, paying particular attention to voids, bell holes, and silt holes. The purpose of tamping is to ensure uniform support for the pipe.

The limits of bedding shall be from six inches (6") below the bottom of the pipe to twelve inches (12") above the top of the pipe. Approved backfill may then be installed to the groundline. See Section 8 of these Standards for backfill and composition of backfill.

Compaction of bedding is not required. The only requirement is sufficient tamping to achieve uniform support under the pipe. See Sheet 8 of the Standard Drawings for a typical trench cross section.

(b) Bedding Material: The bedding material shall be a clean well-graded sand or silt-sand and shall conform to the following limits when tested by means of laboratory sieves:

Well-Graded Sand	
Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	10-30
No. 100	2-10
No. 200	0

Sieve Sand	
Sieve Size	Total Percent Passing by Weight
3/8 inch	100
No. 100	0-5

If approved by the District, fines from the trench walls and spoils may be used to provide uniform support for the pipe. No rock or stone larger than that allowed by the sieve analysis, or any other detrimental substance, shall be placed closer to the pipe than six inches (6"). Approved bedding materials shall be stockpiled on the jobsite to be used in the event natural materials become unsatisfactory. The District reserves the right to require the use of the specified bedding material at any time.

STONEGATE VILLAGE METROPOLITAN DISTRICT

PIPE BEDDING

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

IMPROPER WASHER PLACEMENT

PROPER WASHER PLACEMENT (FOR WASHER DIMENSIONS SEE TIE ROD AND WASHER DETAILS SHEET 19)

CLAMP DETAILS

DIMENSIONS

PIPE DIA.	BAR SIZE	A		B		C		D		E		F		G		PIPE DIA.
		BELL	BODY	BELL	BODY	BELL	BODY	BELL	BODY	BELL	BODY	BELL	BODY	BELL	BODY	
4"	1-1/2x1/2	9-3/4	7-1/2	3-1/2	3-1/2	1	1	6-3/4	4-7/8	2-3/4	1-13/16	1-1/4	1-1/4	3x1/2	2-1/2x3/8	4"
6"	2x1/2	13	9-1/2	4	4-1/2	2	2	10-1/4	7-7/8	4-1/8	2-19/16	2	1-1/4	3-1/2x1/2	3-1/2x1/2	6"
8"	2-1/2x1/2	15	12-3/4	4-3/4	4-1/2	1-1/4	1-1/2	12-1/4	9-1/4	5-1/8	4	2	1-1/4	4-1/2x1/2	4-1/2x1/2	8"
12"	2-1/2x5/8	17-1/2	16-3/8	4-5/8	4-3/4	1	1-1/4	14-1/2	13-1/2	6	5-1/2	2-1/2	2-1/2	4-1/2x5/8	4-1/2x5/8	12"
16"	3x3/4	24-1/2	21-7/8	4-1/2	4-3/4	1-1/2	1-1/2	18-3/4	17-1/2	8-3/8	7-1/2	3	2-1/2	5-1/2x5/8	5-1/2x5/8	16"
20"	3x3/4	32-1/2	25-3/8	4-1/2	4-3/4	1-1/2	1-1/2	24-3/4	21-3/4	10-7/8	9-1/2	3	2-3/4	5-1/2x5/8	5-1/2x5/8	20"
24"																24"

NOTE: ALL DIMENSIONS IN INCHES. CLAMPS MAY NOT BE USED ON PVC PIPE.

STONEGATE VILLAGE METROPOLITAN DISTRICT

CLAMP DETAILS AND DIMENSIONS

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

TOP VIEW

SIDE VIEW

HARNES LUG DIMENSIONS

CARRIER PIPE NOMINAL DIA.	STUD DIA.	A	W	Z	T	H	E	H1	Y	X
4" TO 16"	3/4"	5"	1-1/2"	3-3/4"	3/8"	4-1/8"	3-1/8"	2"	4-1/2"	5"
20"	1"	5-3/4"	1-3/4"	4-7/16"	3/8"	4-1/2"	3-1/4"	2"	5-1/4"	5-11/16"

**NOTES:**

- USE TWO HIGH STRENGTH STEEL TIE RODS AT END OF CASING.
- TIE ROD HOLE DIAMETER 1/8" LARGER THAN STUD DIAMETER.
- BOTTOM EDGE OF ALL PLATES SHAPED TO FIT O.D. OF PIPE.

STONEGATE VILLAGE METROPOLITAN DISTRICT

HARNES LUG DETAILS

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

SEWER CROSSING UNDER (WITH "D" LESS THAN 2)

SECTION A-A

**NOTES:**

- REPLACE EXISTING SEWER WITH DUCTILE IRON CEMENT-MORTAR LINED WATER PIPE CONFORMING TO ANWA C-151 OR PSM SDR 35 PVC PIPE CONFORMING TO ASTM D-3034.
- NEW CLASS "B" BEDDING CONFORMING TO ASTM C-425 HAND OR MACHINE TAMPED.
- WATER TIGHT FLEXIBLE COUPLING CONFORMING TO ASTM C-425 BANDED WITH TWO SERIES 300 STAINLESS STEEL BANDS.
- 12" MIN. FOR SEWERS LESS THAN 15"
- CLEAN, SELECT SAND OR SQUEEGEE.
- NOTE: ANY SUBDRAIN UNDER THE SEWER SHALL BE REPLACED SUCH THAT NO FLOW SHALL ENTER THE WATER LINE TRENCH.

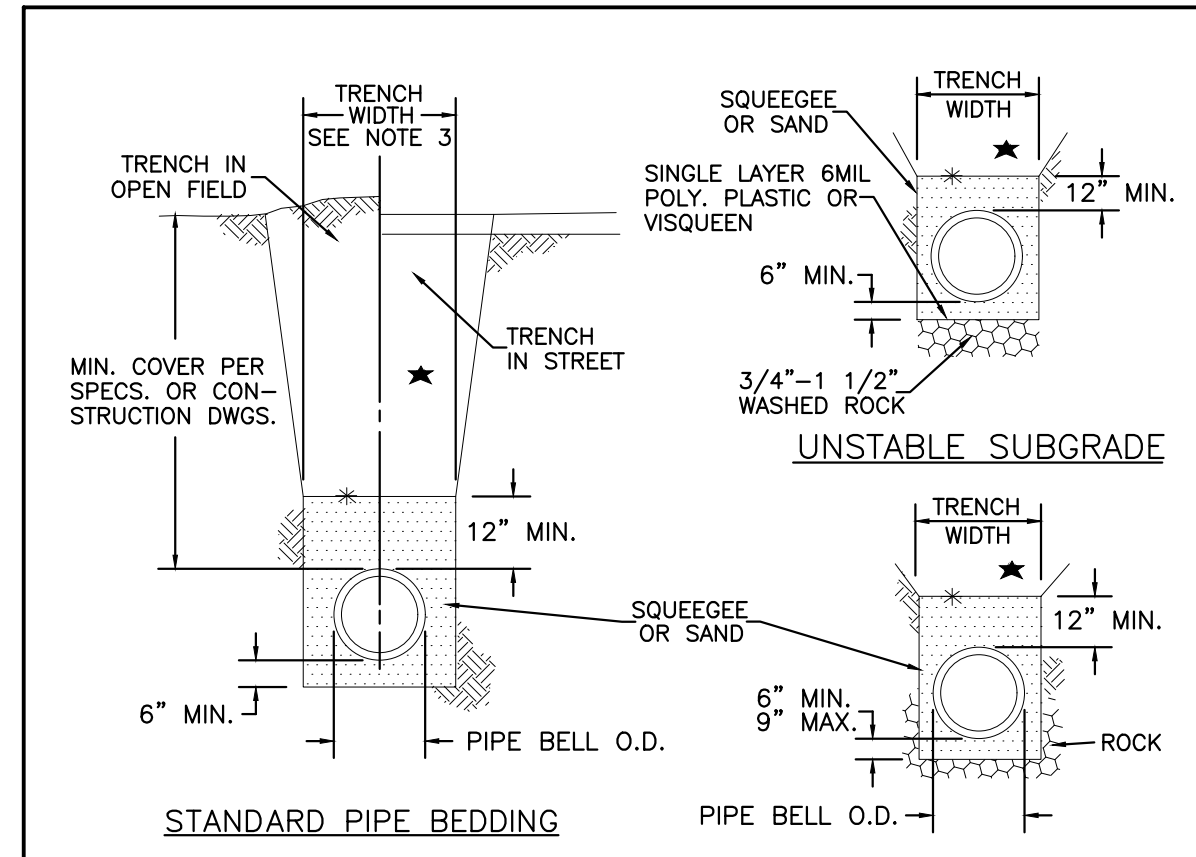
STONEGATE VILLAGE METROPOLITAN DISTRICT

CROSSING STORM & SANITARY SEWERS

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

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- STANDARD PIPE BEDDING**
- ★ MACHINE COMPACTED TRENCH BACKFILL
  - \* LIMIT OF SLOPING OR BENCHING OF TRENCH WALLS
  - UNDISTURBED GROUND
- PIPE BEDDING IN ROCK**

**NOTES:**

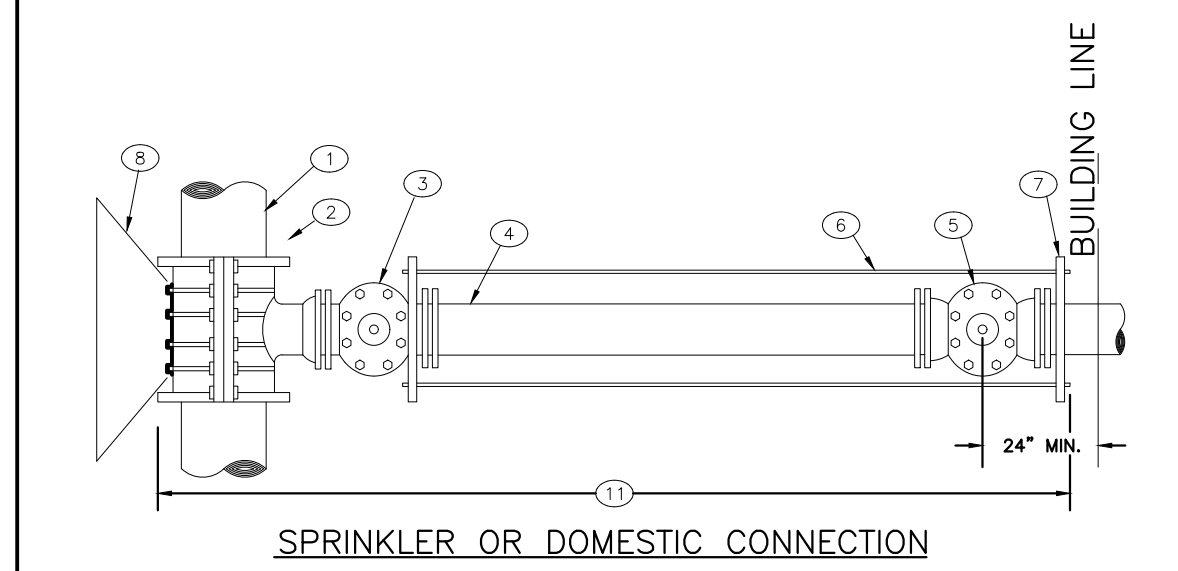
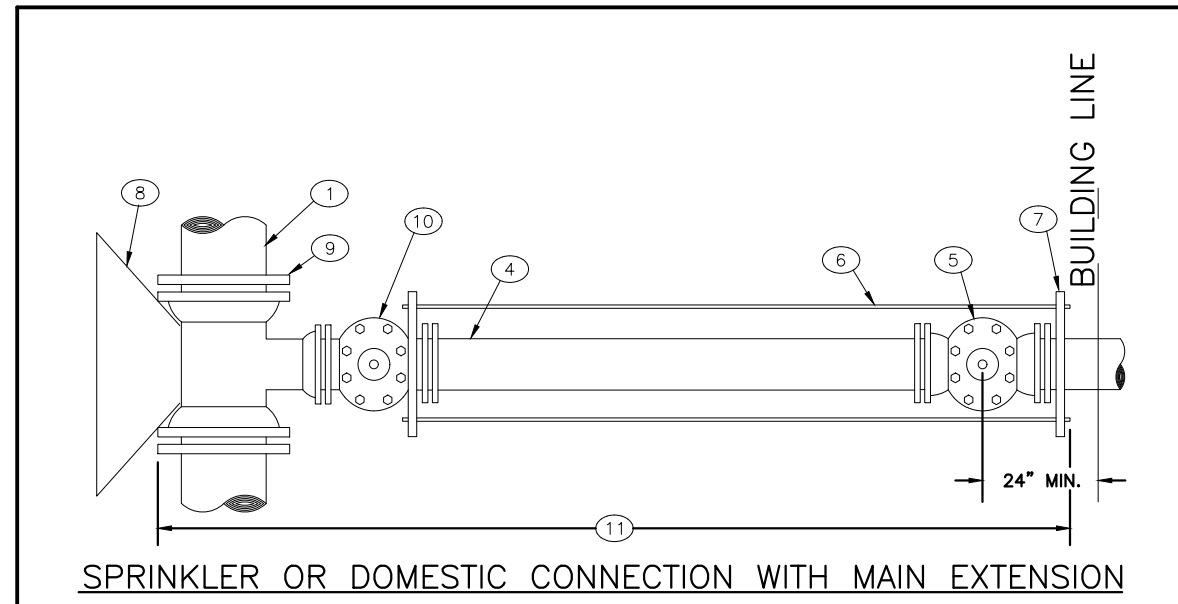
- MIN. COVER TO BE BELOW FINAL STREET GRADE WHEN AVAILABLE.
- TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE PROTECTION OF OTHER UTILITIES AND TO MEET OSHA SAFETY REQUIREMENT.
- TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE LAID THEREIN (BELL OR COUPLING O.D. IF APPLICABLE).

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**BEDDING DETAILS**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 29

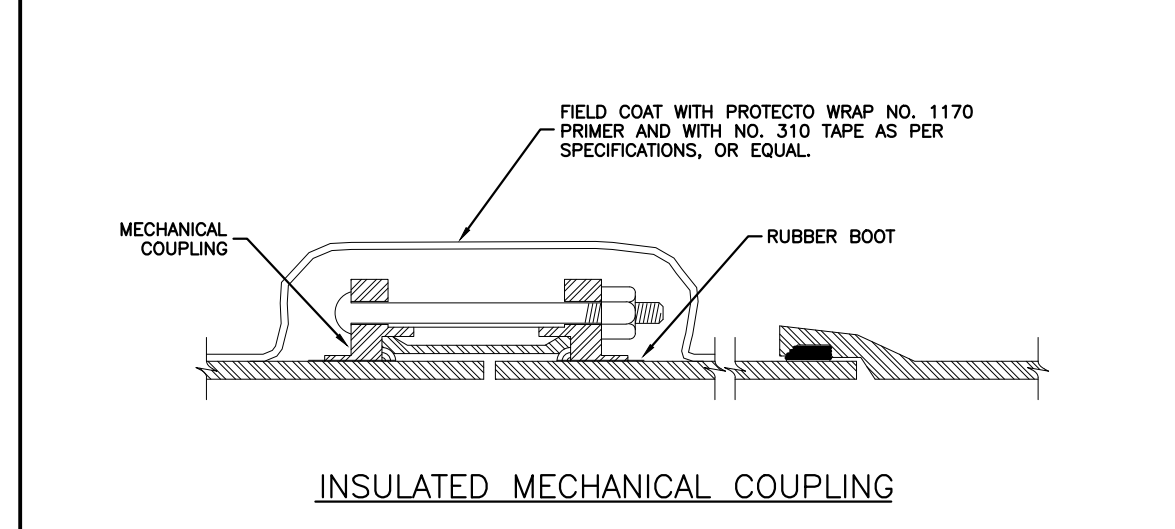
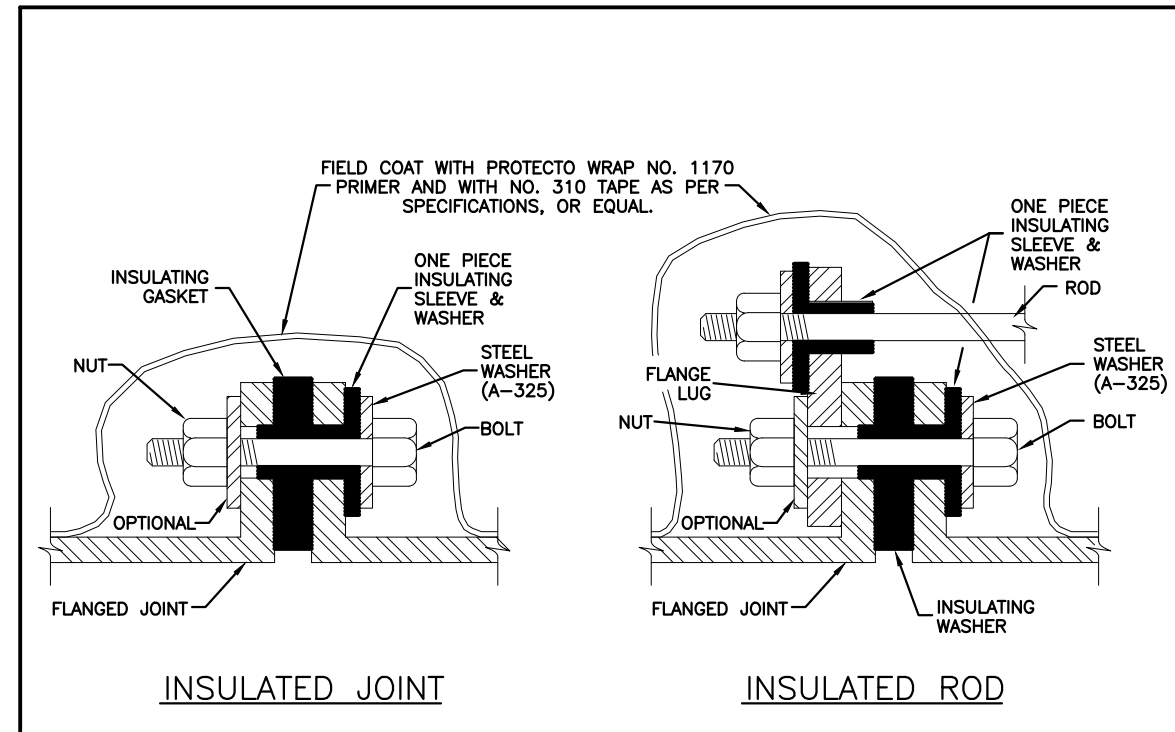


STONEGATE VILLAGE METROPOLITAN DISTRICT  
**3" AND LARGER DOMESTIC AND SPRINKLER CONNECTIONS**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 31

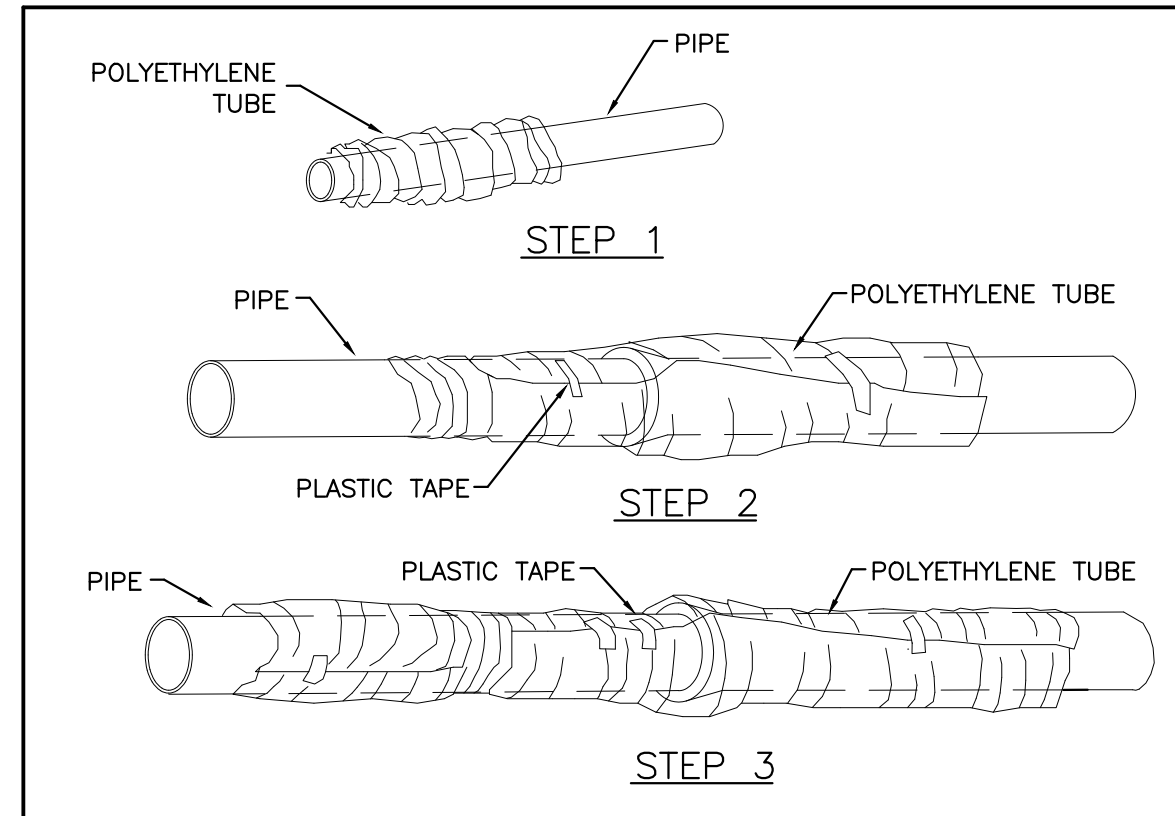


STONEGATE VILLAGE METROPOLITAN DISTRICT  
**INSULATED JOINTS, RODS AND MECHANICAL COUPLINGS**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 32



**FIELD INSTALLATION - POLYETHYLENE WRAP**

STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2 - PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE.

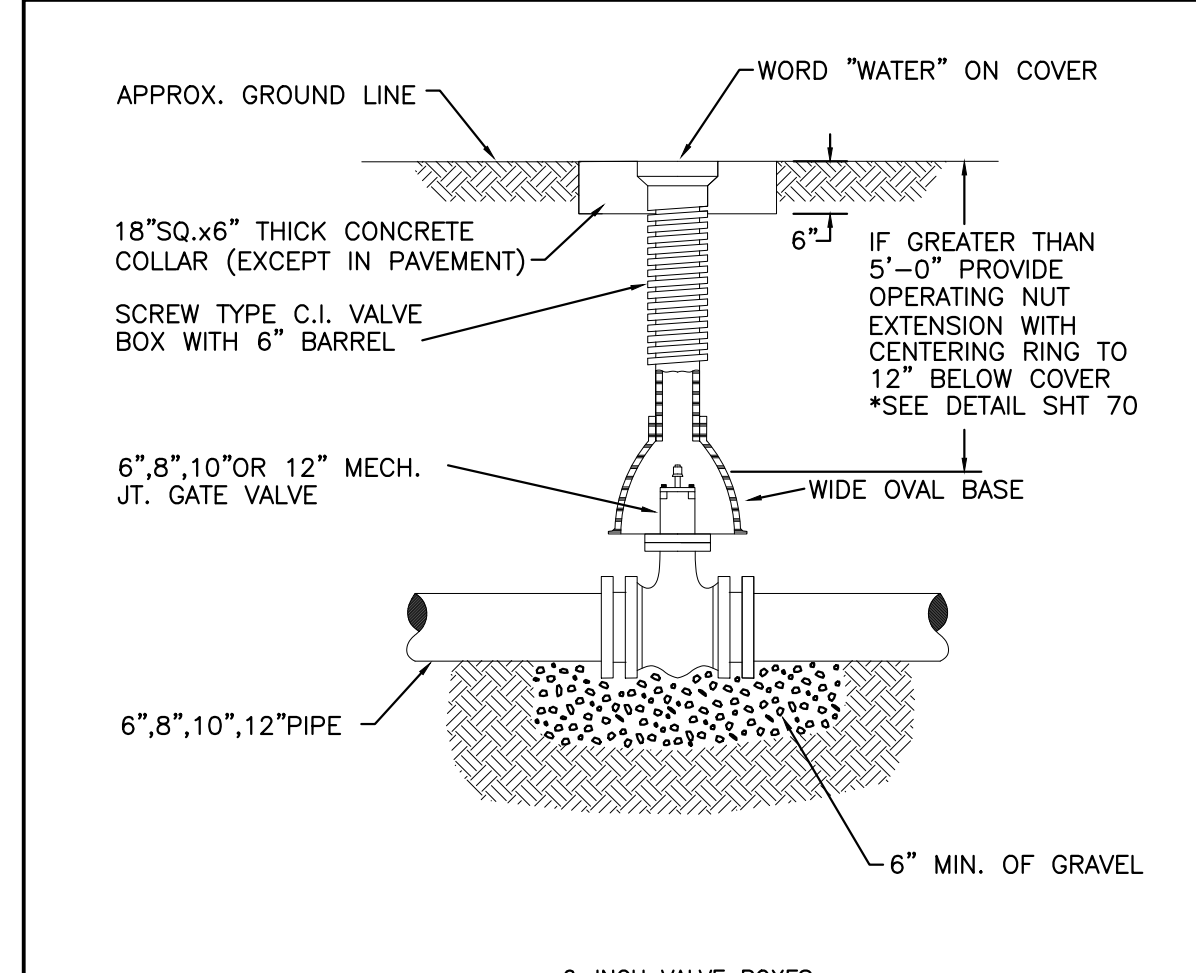
STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**POLYETHYLENE WRAP**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 33



**6-INCH VALVE BOXES**

**Materials:**  
Valve box parts shall be made from gray cast iron, ASTM A48 Class 20A. Use of an aluminum alloy as a casting material is not acceptable.

**Approved Patterns:**  
Valve boxes shall be the three-piece adjustable screw type and the following two patterns are acceptable.

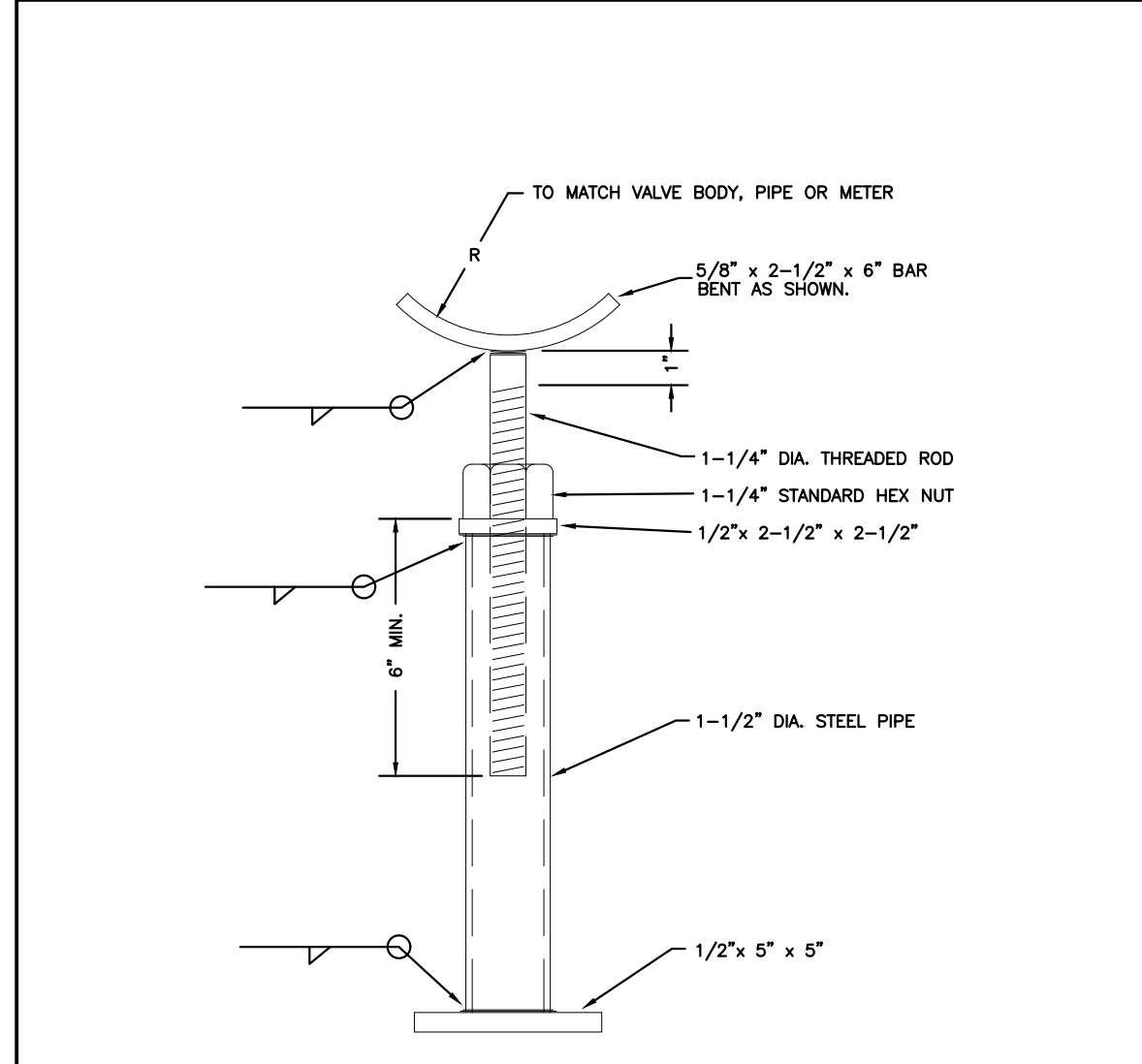
- Tyler screw-type 6-inch cast iron valve box assembly series 6860 with No. 160 oval base.
- Clay and Bailey screw-type 6-inch cast iron valve box assembly No. P-105 with No. 160 large oval base.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
**VALVE BOX DETAIL**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 34

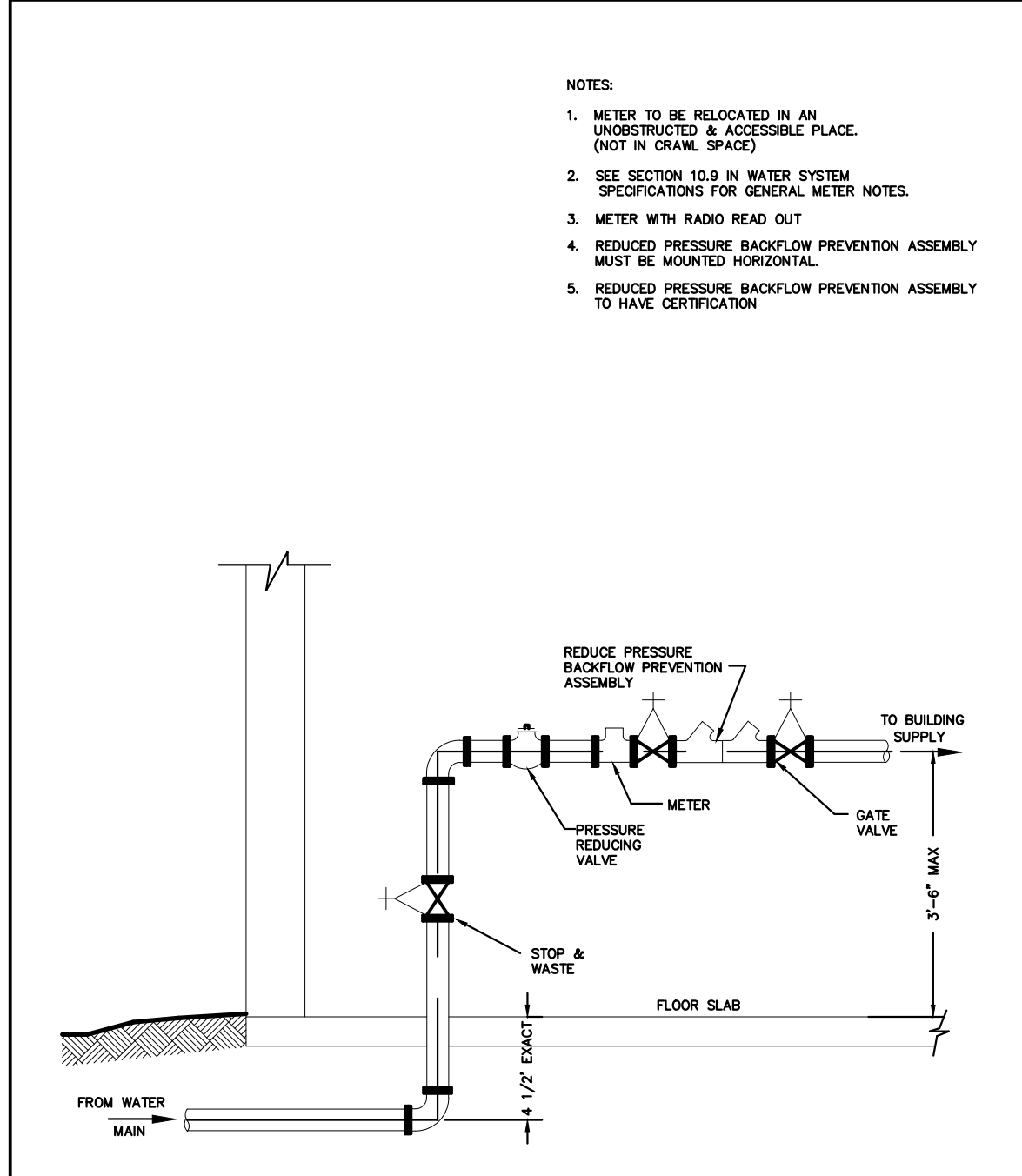


STONEGATE VILLAGE METROPOLITAN DISTRICT  
**ADJUSTABLE STEEL PIPE VALVE SUPPORT**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 35

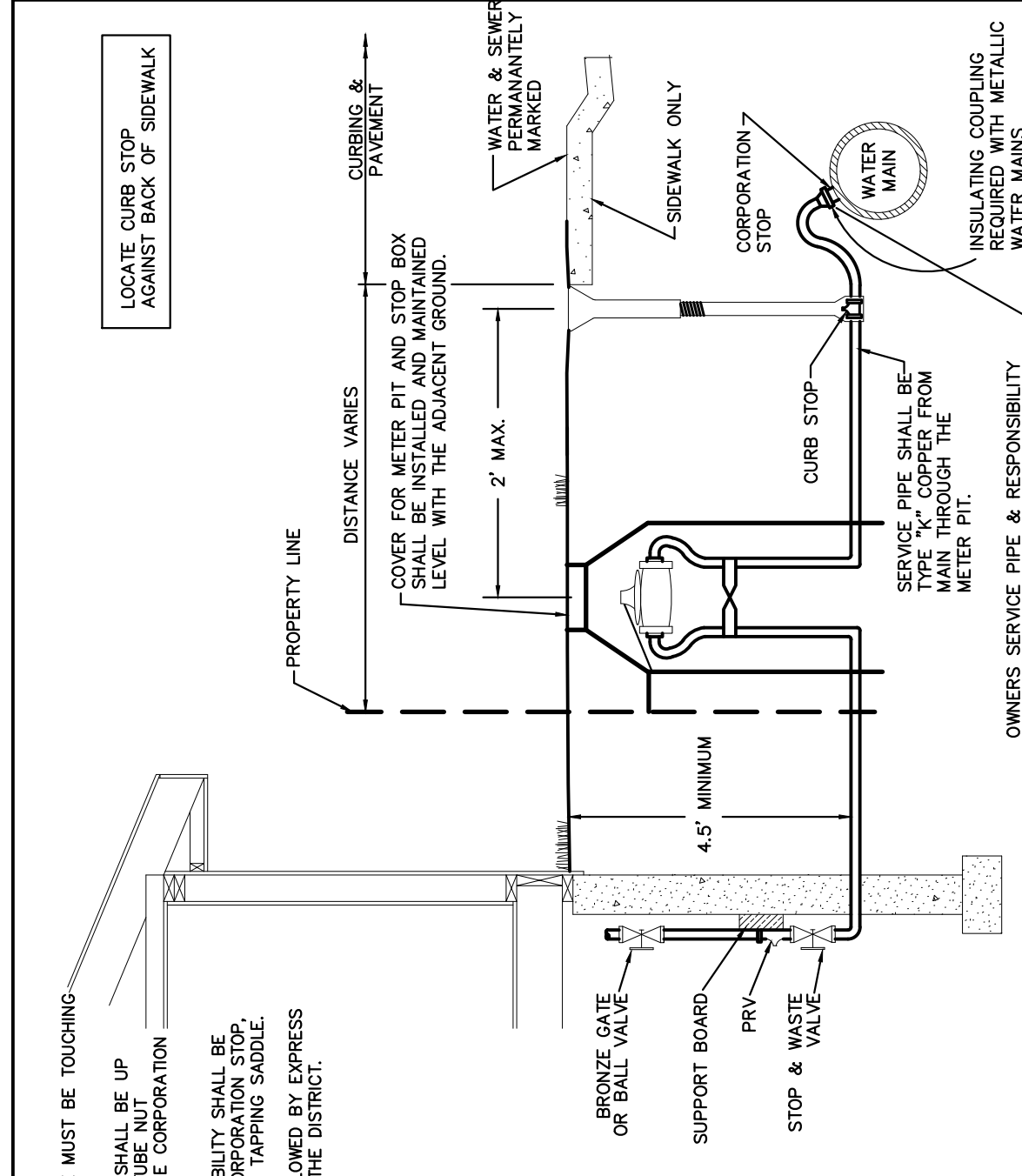


STONEGATE VILLAGE METROPOLITAN DISTRICT  
**INSIDE COMMERCIAL METER INSTALLATION FOR 6" & SMALLER PIPE**

SCALE: NONE DATE: 4/00

APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 43



STONEGATE VILLAGE METROPOLITAN DISTRICT  
**SERVICE LINE, STOP BOX AND OUTSIDE METER INSTALLATION**

SCALE: NONE DATE: 9/2010

APPROVED: SB DISTRICT ENGINEER

2000 REVISION SHEET 44

REV	REVISION DESCRIPTION	DATE	CHKD	APPD
0	ISSUED FOR CONSTRUCTION	7/19/2024		

**COMPARK VILLAGE SOUTH**  
WATER AND SANITARY PLANS  
STANDARD DETAILS - WATER



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**GENERAL NOTES:**

- NOT FOR INSTALLATION IN ROADWAYS, OR PARKING AREAS.
- IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER, OWNER MUST RAISE OR LOWER PIT WHEN SURFACE IS GRADED.
- METER SETTING MUST BE INSPECTED BY THE DISTRICT BEFORE BACKFILLING.
- LOCATION OF METER TO BE ESTABLISHED BY A DISTRICT REPRESENTATIVE.
- NO CONCRETE FLOOR TO BE LAID IN METER PIT.
- METER PIT SHALL BE CONSTRUCTED OF FOUR 12", OR ONE 12" AND ONE 36" RINGS. WALLS SHALL BE 2" THICK.
- ADJUSTMENT RINGS SHALL BE 2", 3" 4" OR 6" IN HEIGHT AND SHALL BE INSERTED BETWEEN THE TOP TWO RINGS.
- NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT WALL ON THE OUTLET SIDE.
- LAWN SPRINKLER CONNECTION SHALL BE A MINIMUM OF FIVE FEET FROM THE METER PIT WALL ON THE OUTLET SIDE.
- THIS DETAIL TO BE USED ONLY WITH EXPRESS PERMISSION OF THE DISTRICT.
- THE FORD TANDEM COPPERSETTER TO HOLD A WATTS USB PRESSURE REGULATOR (PRV) JUST AHEAD OF THE WATER METER.
- (JUMPER OR CHEATER) PIPES TO BE REMOVED BEFORE METER SET DATE.

METER SIZE	A	B	C
5/8" x 3/4"	12 5/8"	7 1/2"	4"
3/4"	14 1/4"	9 5/16"	5"
1"	17 1/4"	11 1/16"	6"

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 ALL OUTSIDE SETTING FOR 5/8" x 3/4", 3/4" & 1" METERS w/ PRV

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 45

**NOTES:**

- ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3,000 PSI USING TYPE 1 PORTLAND CEMENT AND 3/4" AGGREGATE. ALL CONCRETE SHALL HAVE 5-7% ENTRAINED AIR CONTENT AND A MAXIMUM SLUMP OF 4".
- ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL REINFORCEMENT SHALL HAVE 2" MIN. CONCRETE COVER.
- THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY PRIOR TO FORMING THE STRUCTURE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 WATERLINE ENCASUREMENT

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 48

**NOTES:**

- MANHOLE BASE BEAMS SHALL BE REQUIRED FOR INSTALLATIONS IN DRIVEWAYS, OR PARKING AREAS.
- 4" 45° CONCENTRIC FLAT TOP MANHOLE FIT WILL ACCOMMODATE 1 1/2" AND 2" SPLIT BASE METERS.
- JOINTS INSIDE METER VAULT SHALL BE EITHER THREADED OR SOLDERED WITH 95-5 TINANTIMONY SOLDER.
- SEE SECTION 10.9, WATER SYSTEM SPECIFICATIONS FOR GENERAL METER NOTES.
- NO CONCRETE TO BE LAID IN FLOOR OF METER M.H.
- METER SHALL BE FLANGED WITH BRASS COMPANION FLANGES.
- NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT ON THE OUTLET SIDE.
- LADDER RINGS SHALL BE ON OPPOSITE SIDE OF BYPASS.
- (JUMPER OR CHEATER) PIPES TO BE REMOVED BEFORE METER SET DATE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 OUTSIDE SETTING FOR 1 1/2" & 2" METER FOR IRRIGATION

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 49

**NOTES:**

- PIPE JOINT SHALL BE THREADED OR SOLDERED WITH SILVER SOLDER.
- INSTALLATION MUST ALLOW ACCESS FOR MAINTENANCE AND BE PROTECTED FROM FREEZING.
- SEE SECTION 10.9, WATER SYSTEM SPECIFICATIONS FOR GENERAL METER NOTES.
- COMPANION FLANGES SHALL BE BRASS.
- METER SUPPORT SHALL BE EITHER CONCRETE OR ADJ. STEEL PIPE (SEE SHEET NO. 34)
- THIS DETAIL TO BE USED ONLY WITH EXPRESS PERMISSION OF THE DISTRICT ENGINEER.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 INSIDE SETTING FOR 1 1/2" & 2" METER WITH CHECK VALVE

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 51

**VALVE OPENING & CLOSING PROCEDURE**

NOTE:  
 NORMALLY VALVES WITH A RED OPERATING NUT INDICATE A STANDARD DENVER VALVE.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 VALVE OPERATION

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 61

NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES
4"	2	2				
6"	6	3	11.12	9.5	7.00	0.88
8"	6	4	13.37	11.75	9.15	1.00
10"	8	6	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25
4"	4	2				
6"	6	3	11.12	9.5	7.00	0.88
8"	6	4	13.37	11.75	9.15	1.00
10"	8	6	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 MECHANICAL JOINT RESTRAINT DETAILS

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 65

**NOTE:**  
 SEE SHEET 67 OF 68 FOR DISTRICT POLICIES AND INSTALLATION NOTES.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 TYPICAL WATER SERVICES

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

2000 REVISION SHEET 66

**INSPECTION POLICY:**

- ALL SERVICE INSPECTIONS MUST BE SCHEDULED WITH THE DISTRICT ENGINEER (303) 263-3699 AT LEAST 24 HOURS IN ADVANCE OF THE REQUESTED INSPECTION.
- SERVICE INSPECTIONS WILL OCCUR BETWEEN 8:00 A.M. AND 3:00 P.M. SPECIFIC INSPECTION TIMES ARE NOT AVAILABLE.
- IF THE CONTRACTOR IS NOT READY FOR INSPECTION WHEN THE INSPECTOR ARRIVES AT THE SITE, A RE-INSPECTION WILL HAVE TO BE SCHEDULED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
- SHOULD THE SERVICE LINES BE DAMAGED BY LATER CONSTRUCTION, AN INSPECTION OF THE REPAIR WILL BE REQUIRED IN ACCORDANCE WITH NOTES 1 AND 2 ABOVE.
- THE CONTRACTOR SHALL LEAVE ALL PIPE AND FITTINGS EXPOSED FOR THE INSPECTOR TO OBSERVE. INSPECTORS WILL NOT ENTER ANY EXCAVATIONS TO CHECK MATERIALS. THE TOP LAYER OF BEDDING CAN BE ADDED AFTER THE INSPECTION HAS BEEN COMPLETED.
- ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.

**INSTALLATION NOTES:**

**WATER**

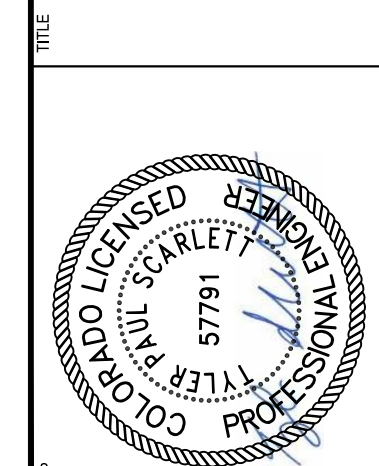
- ACCEPTABLE PIPE MATERIALS SHALL BE K-COPPER TUBING. (3/4" MIN.)
- APPROVED BEDDING TO BE SQUEEGEE.
- ONLY ONE COUPLING WILL BE ALLOWED BETWEEN THE STUB-IN AND BUILDING. A COUPLING MAY BE EITHER FLARED OR SILVER-SOLDERED. COMPRESSION COUPLINGS WILL NOT BE ALLOWED. MOVED CURB BOXES MUST BE INSPECTED BY PWSD PRIOR TO BURIAL.
- A WATER SERVICE WHICH CROSSES A SEWER SERVICE CAN DO SO ONLY AT A 90°± ANGLE MAXIMUM, 45° ANGLE MINIMUM. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 18" ABOVE SEWER SERVICE.
- WATER SERVICE FOUNDATION PENETRATIONS SHALL BE WATERPROOFED USING MASTIC OR OTHER APPROVED METHOD.
- STOPBOX MUST BE PLUMB AND CENTERED OVER NUT, AND MUST BE SET AT OR, SLIGHTLY ABOVE FINISHED GRADE.
- STOPBOXES MUST BE SET AT BACK OF SIDEWALK ONLY (TOUCHING) NOT AT CURBS.
- NO CRAWLSPACE MOUNTED METERS ALLOWED.
- WATERLINE MUST BE ATTACHED TO A SUPPORT BOARD THAT IS MOUNTED TO THE WALL.
- NO VOIDS ALLOWED UNDER WATERLINES FROM STOP BOX TO FOUNDATION.
- METER SHOULD BE LOCATED ON SAME SIDE OF HOUSE AS CURBSTOP IF POSSIBLE.
- WATERLINES PASSING UNDER DRIVEWAYS NEED TO BE SLEEVED IN 4" P.V.C. AND HAVE EXPRESS PERMISSION OF THE DISTRICT.
- YOKES SHOULD BE MOUNTED NO GREATER THAN 6 INCHES ABOVE BOTTOM SHUTOFF. EACH SERVICE MUST INCLUDE A STOP AND WASTE VALVE AND A PRESSURE REDUCING VALVE LOCATED WITHIN THE ABOVE REFERENCED 6 INCH SPACE.
- NO SPLICES OR FLARED COUPLINGS ALLOWED ON WATERLINES. SILVER SOLDER JOINTS MUST BE USED IN MOVING STOPBOXES, AND SILVER SOLDER JOINT MUST BE INSPECTED BY PWSD PRIOR TO BURIAL.
- ONLY 3/4" (JUMPER OR CHEATER) PIPES (RESIDENCES) ARE ALLOWED. (JUMPER OR CHEATER) PIPES WILL BE REMOVED PRIOR TO METER SET DATE.
- ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS: "X" FOR SANITARY SEWER SERVICE "W" FOR WATER SERVICES

STONEGATE VILLAGE METROPOLITAN DISTRICT  
 DISTRICT POLICIES & INSTALLATION NOTES FOR WATER SERVICES

SCALE: NONE DATE: 4/00  
 APPROVED: R/JG DISTRICT ENGINEER

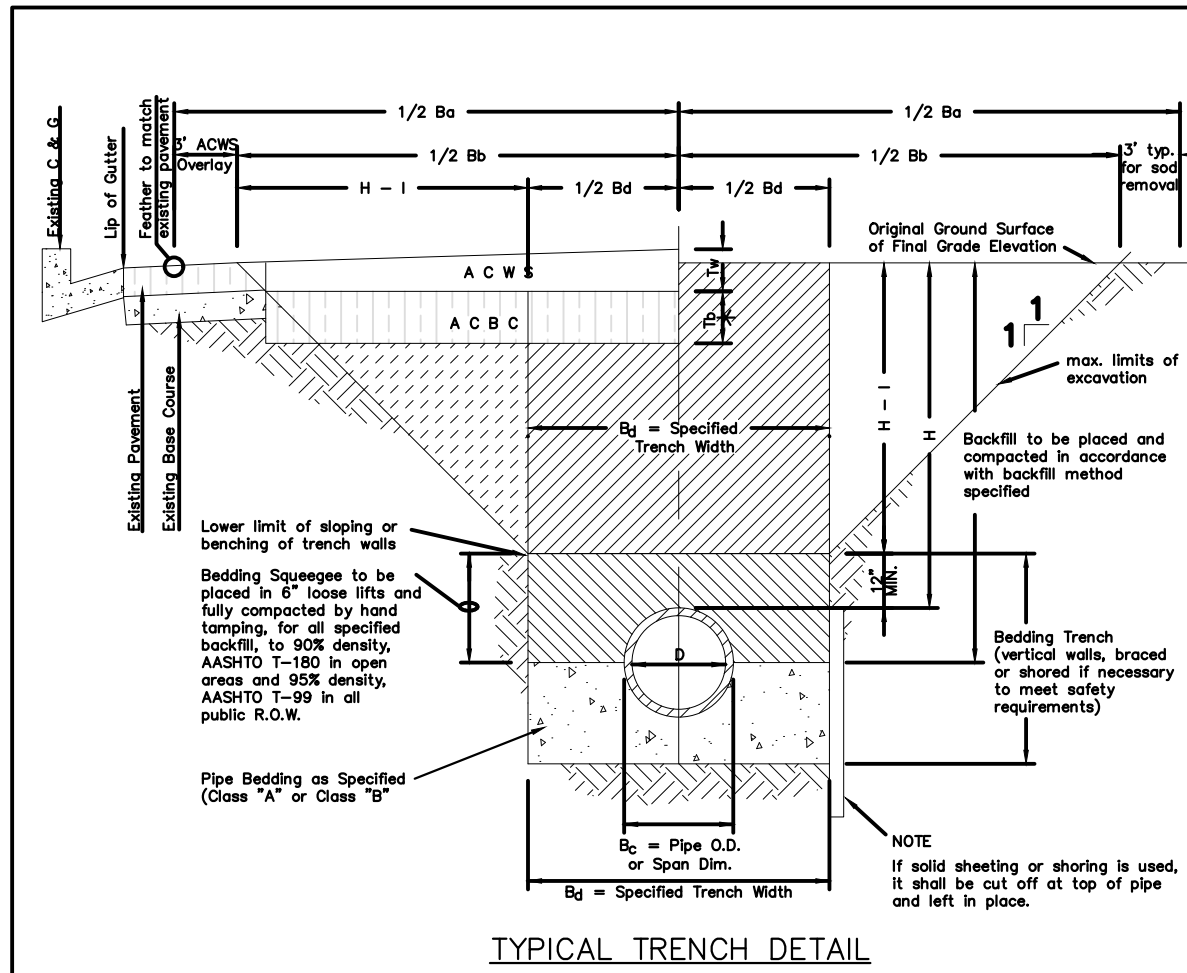
2000 REVISION SHEET 67

REV	REVISION DESCRIPTION	DATE	CHNO/CHKD/APPR
0	ISSUED FOR CONSTRUCTION	7/19/2024	





THESE AND ALL OTHERS ARE SUBJECT TO CHANGE WITHOUT NOTICE. ANY CHANGES TO THESE DRAWINGS SHALL BE MADE BY THE DESIGNER. THE USER OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



TYPICAL TRENCH DETAIL

**NOTES**

- Sloping or benching of trench side walls, where permitted shall be in accordance with applicable Federal, State and Local safety regulations.
- Trench shall be broad and shored as necessary to afford safe working conditions or to protect adjacent utilities, structures, etc. Unless otherwise specified on the plans, no pavement will be made for removal, replacement or relocation of curb and gutters, utilities, sidewalks, structures, etc. outside the maximum limits of excavation as shown and the contractor shall be responsible for protection of same.
- If dimension  $T_2$  is  $\leq 5'$ , then existing asphalt pavement shall be removed and replaced up to the gutter. Maximum asphalt pavement,  $R_2$  if  $R_2$  shall then be based upon this section only.

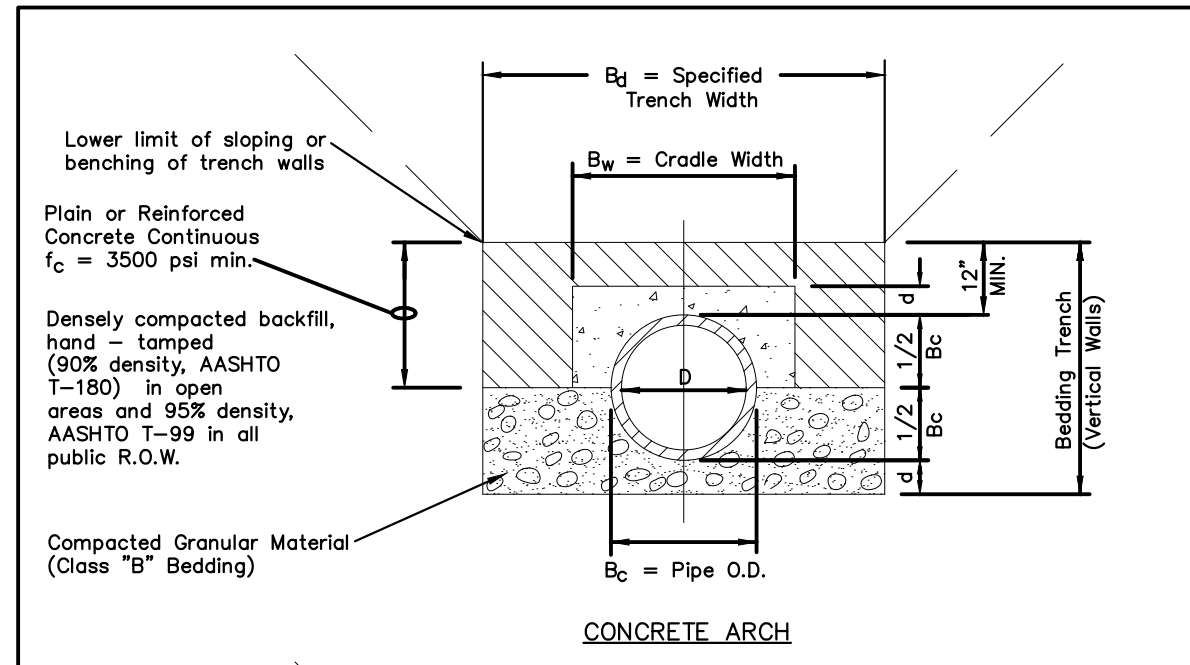
ASPHALT AND BASE COURSE REPLACEMENT SCHEDULE			
STREET WIDTH	ASPHALTIC BASE COURSE (A C B C)	ASPHALTIC WEARING SURFACE (A C W S)	TOTAL THICKNESS (T <sub>2</sub> )
UP TO 36'	4"	2"	6"
36' TO 44'	4"	3"	7"
44' TO 48'	5"	3"	8"
WIDER THAN 48'	6"	3"	9"

TABLE II \* Unless otherwise noted on the plans or in the specs.

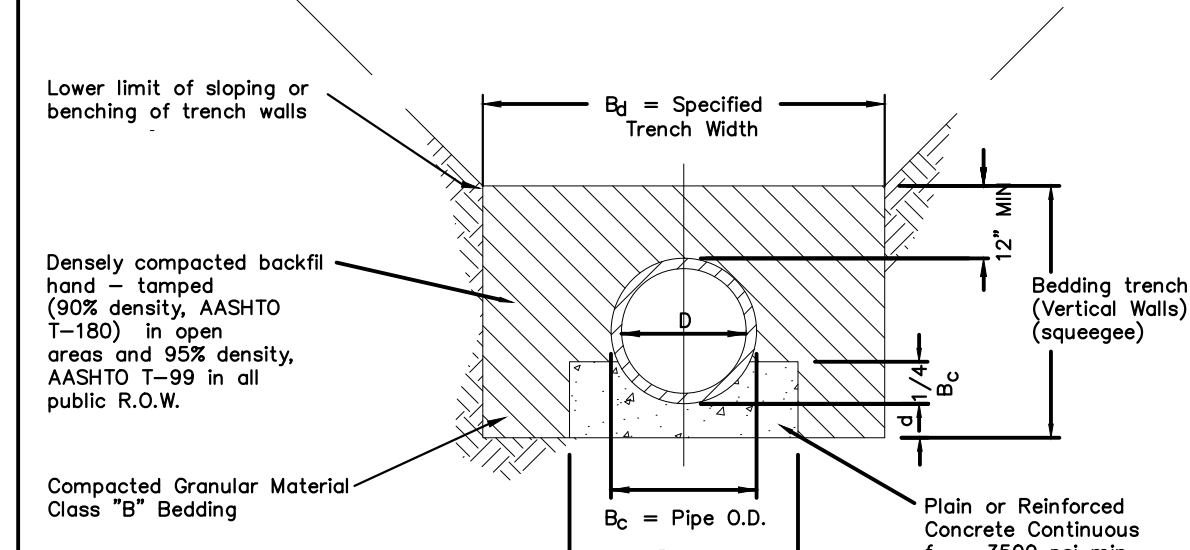
STONEGATE VILLAGE METROPOLITAN DISTRICT  
SEWER TRENCHING AND BEDDING DETAIL  
CLASS "A"

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 1



CONCRETE ARCH



CONCRETE CRADLE

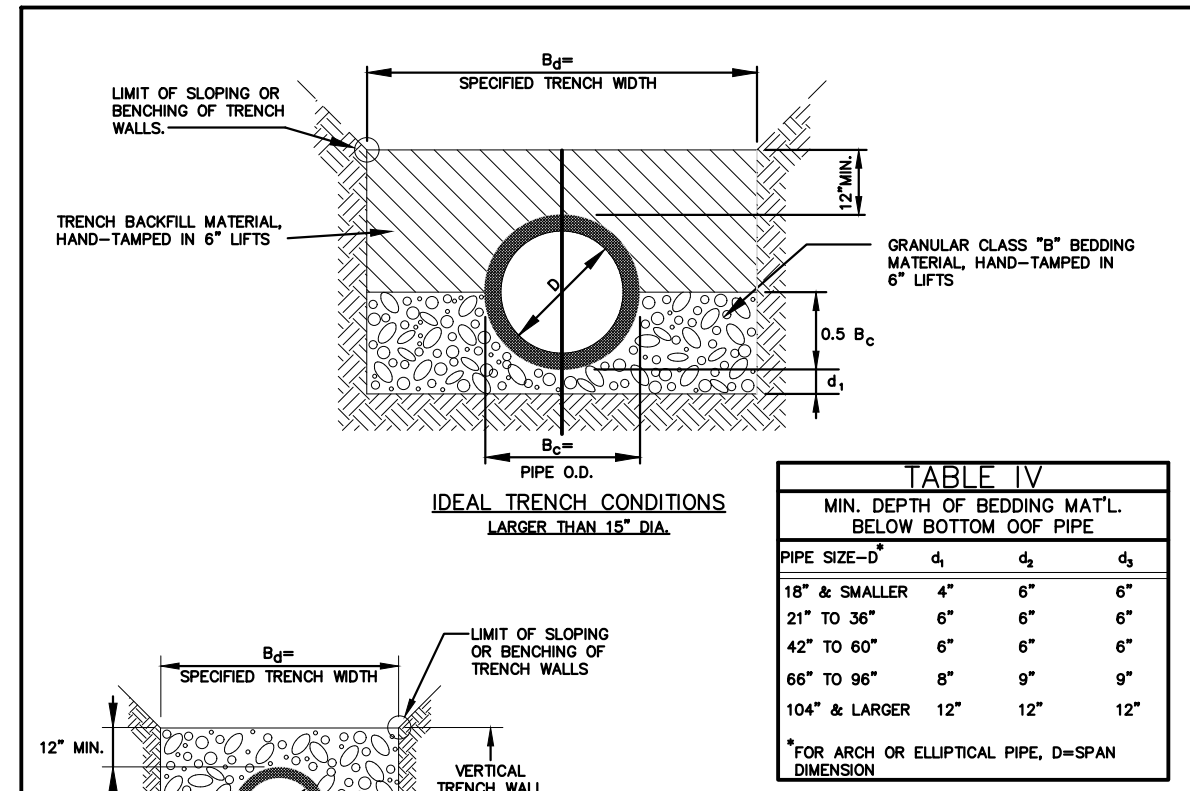
**NOTE:** The Design Engineer shall be responsible for structural design of the concrete cradle and/or concrete arch.

TABLE III		
NOMINAL DIAMETER (D)	MINIMUM THICKNESS (t)	MIN. WIDTH OF CRADLE (B <sub>w</sub> )
18" & smaller	4"	B <sub>c</sub> + 6"
21" to 24"	6"	B <sub>c</sub> + 8"
27" to 33"	8"	B <sub>c</sub> + 8"
36" to 42"	10"	1.25 B <sub>c</sub>
48" & larger	1/4 D	1.25 B <sub>c</sub>

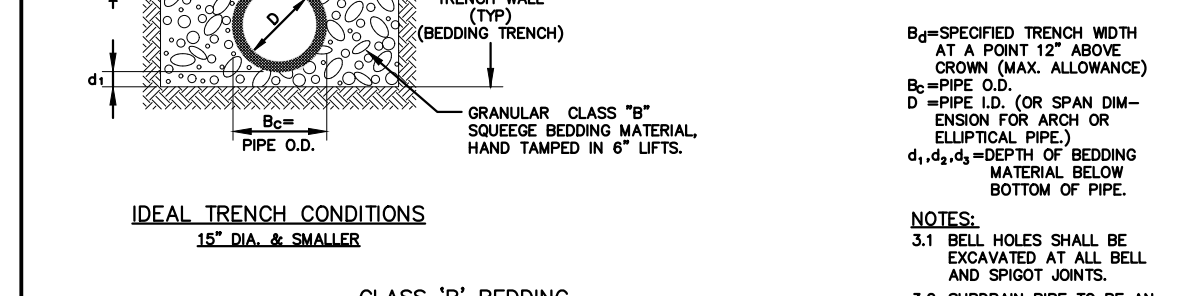
STONEGATE VILLAGE METROPOLITAN DISTRICT  
TRENCHING AND BEDDING DETAIL - CLASS "A"

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 2



IDEAL TRENCH CONDITIONS



CLASS "B" BEDDING

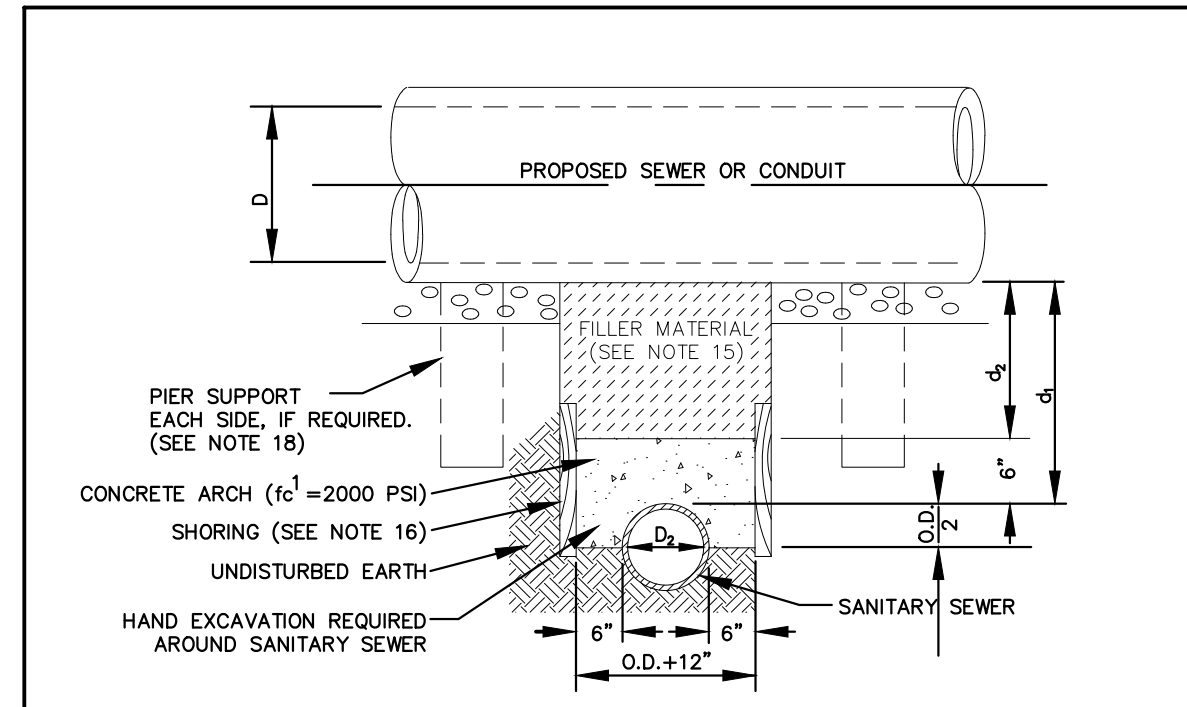
**GENERAL NOTES:**

- 1-1 THESE DETAILS ARE TYPICAL FOR NORMAL TRENCH CONDITIONS. FOR INSTALLATIONS OTHER THAN THESE (SUCH AS EMBANKMENT OR TUNNEL INSTALLATIONS, ETC.) EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS SHALL BE DETAILED ON THE CONSTRUCTION DRAWINGS. FOR UNUSUAL OR UNSTABLE SOIL CONDITIONS, TRENCH AND BEDDING DETAILS SHALL BE A SPECIAL DESIGN.
- 2-2 ULTIMATE BACKFILL LOADS AND STRUCTURAL DESIGN OF PIPE OR CONDUIT SHALL BE BASED UPON B<sub>2</sub> TRANSITION WIDTH AS SET FORTH IN "REFERENCE R-2" (SEE BLOCK BELOW).
- 3-3 FOR INSTALLATIONS OTHER THAN TYPICAL TRENCH CONDITIONS, EXCAVATIONS, BEDDING, BACKFILL AND STRUCTURAL REQUIREMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE REFERENCES NOTED BELOW OR THE PIPE MFG.'S RECOMMENDATIONS.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
TRENCHING AND BEDDING DETAIL - CLASS "B"

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 3



TYPE I CONCRETE ENCASEMENT FOR SANITARY SEWERS (CONCRETE ARCH)

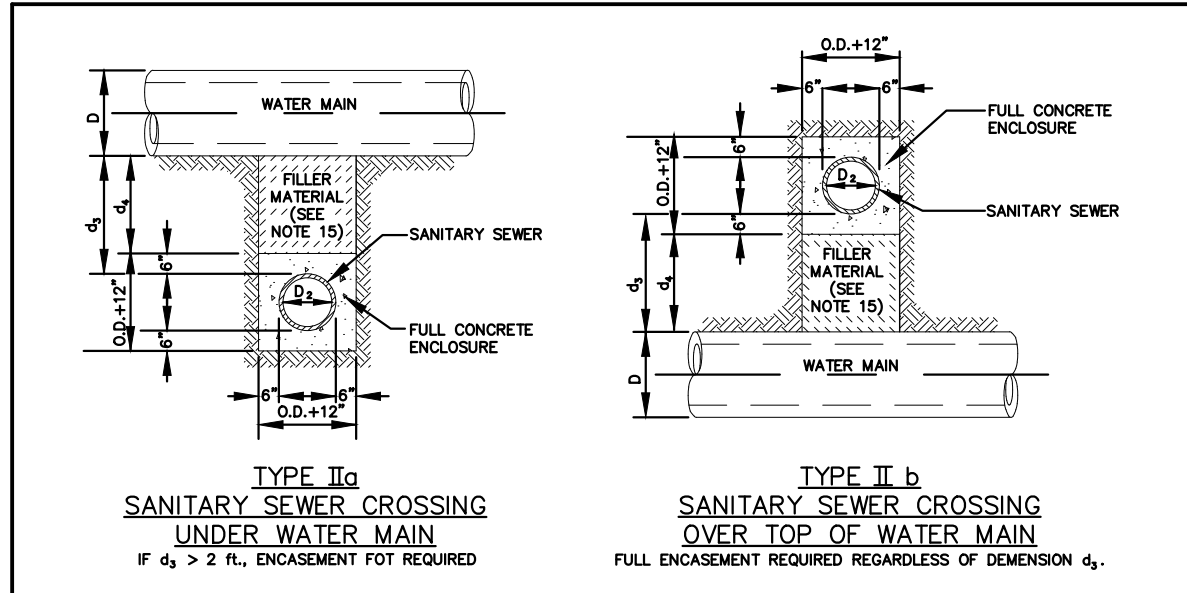
**GENERAL NOTES FOR TYPE I & II ENCASEMENT**

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR: (a) TYPE I & II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT. (b) TYPE I ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I & II ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I OR II ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS: (a) TYPE I OR TYPE II IF  $d \leq 18"$  ( $d \leq 12"$  EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS). (b) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION "d". (c) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY. (d) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE: (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_1$  &  $d_2 \leq 6"$ . (b) COMPACTED CLASS "B" BEDDING IF  $d_1$  &  $d_2 > 6"$  (IF  $d_1$  &  $d_2$  FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
CONCRETE ENCASEMENT TYPE I

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 8



TYPE IIa SANITARY SEWER CROSSING UNDER WATER MAIN

IF  $d_1 \leq 6"$ , ENCASEMENT FOR REQUIRED

FULL ENCASEMENT REQUIRED REGARDLESS OF DIMENSION  $d_1$ .

TYPE IIb Sanitary Sewer Crossing Over Water Main diagram showing cross-section with labels: WATER MAIN, FILLER MATERIAL (SEE NOTE 15), SANITARY SEWER, FULL CONCRETE ENCLOSURE, and O.D. + 12".

TYPE IIb SANITARY SEWER CROSSING OVER WATER MAIN

FULL ENCASEMENT REQUIRED REGARDLESS OF DIMENSION  $d_1$ .

TYPE II Concrete Encasement for Sanitary Sewers Crossing Over or Under Water Main

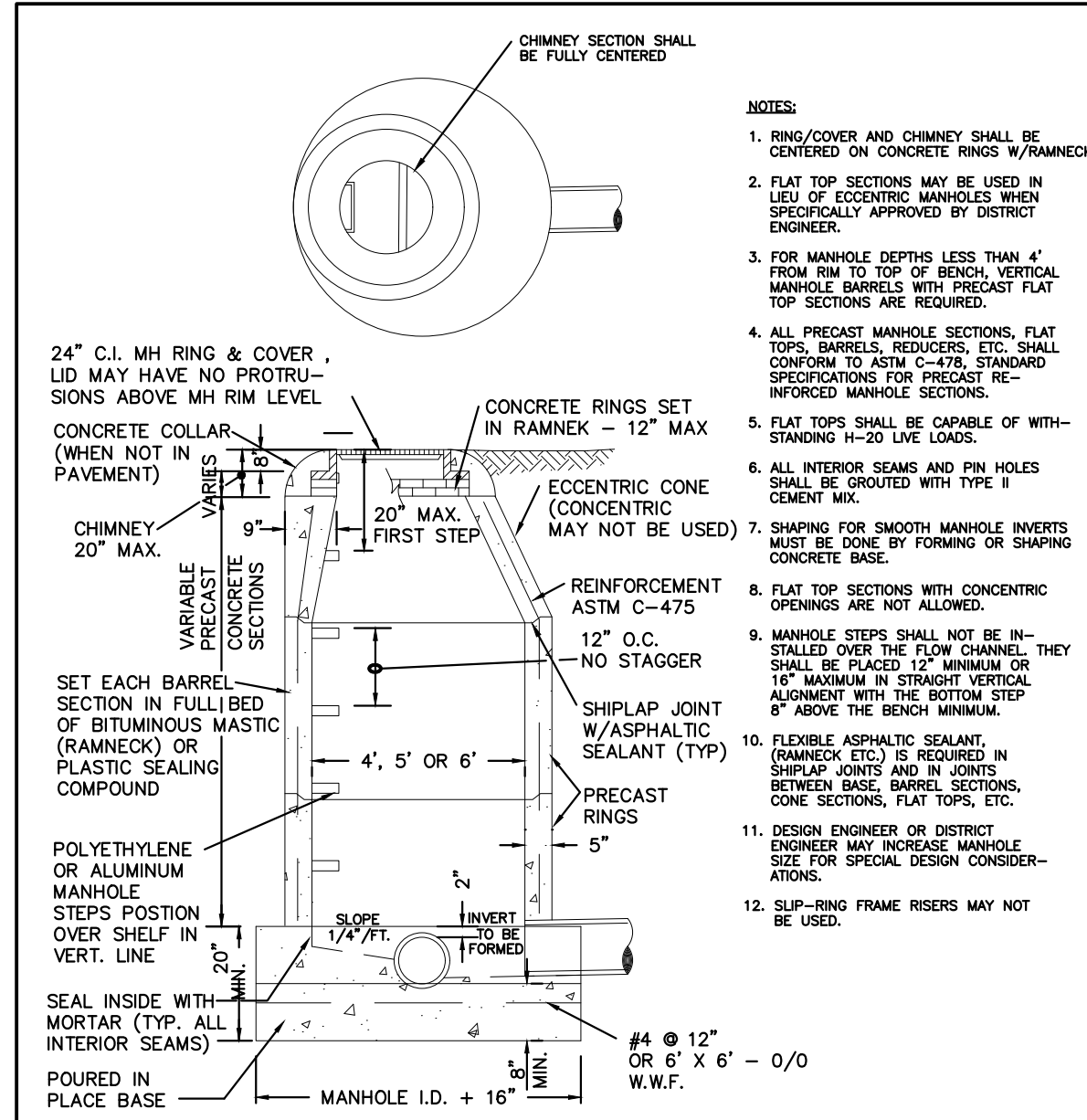
**GENERAL NOTES FOR TYPE I & II ENCASEMENT**

- CONCRETE TO BE CAST AGAINST UNDISTURBED SOIL OR SHORING. IF OPTIONAL CONSTRUCTION JOINT IS USED & BOTTOM HALF OF ENCASEMENT IS POURED SEPARATELY, A ONE INCH LAYER OF SAND OR MORTAR SHALL BE PLACED BETWEEN BOTTOM OF SANITARY SEWER AND TOP OF CONCRETE.
- LENGTH OF ENCASEMENT FOR: (a) TYPE I & II ENCASEMENT SHALL EXTEND FULL TRENCH WIDTH EXCAVATED FOR PROPOSED SEWER OR CONDUIT. (b) TYPE II ENCASEMENT SHALL EXTEND AT LEAST TO FEET EACH SIDE OF WATER MAIN.
- UNLESS OTHERWISE NOTED ON PLAN/PROFILE DRAWINGS, TYPE I & II ENCASEMENTS NEED NOT BE REINFORCED. REINFORCEMENT, IF REQUIRED, SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN & PROFILE DRAWINGS.
- TYPE I OR II ENCASEMENTS ARE REQUIRED UNDER FOLLOWING CONDITIONS: (a) TYPE I OR TYPE II IF  $d \leq 18"$  ( $d \leq 12"$  EXCEPT FOR SANITARY SEWER CROSSING OVER OR UNDER WATER MAINS). (b) TYPE II IS REQUIRED FOR SANITARY SEWERS CROSSING OVER TOP OF WATER MAINS, REGARDLESS OF DIMENSION "d". (c) EXCEPT FOR UNUSUAL CIRCUMSTANCES, WATER MAIN CROSSINGS, OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, TYPE I ENCASEMENT WILL NORMALLY BE SATISFACTORY. (d) IF THE SANITARY SEWER IS REPLACED OR CONSTRUCTED OF DUCTILE IRON PIPE (AWWA C-150 OR C-151), CONCRETE ENCASEMENT MAY NOT BE REQUIRED.
- FILLER MATERIAL BETWEEN CONDUITS TO BE: (a) APPROVED COMPRESSIBLE MATERIAL SUCH AS STYROFOAM, ETC. IF  $d_1$  &  $d_2 \leq 6"$ . (b) COMPACTED CLASS "B" BEDDING IF  $d_1$  &  $d_2 > 6"$  (IF  $d_1$  &  $d_2$  FOR TYPE II ENCASEMENT POUR CONCRETE ON UNDISTURBED SOIL).
- SHORING OR SHEETING, IF USED, TO BE CUT OFF AT TOP OF ENCASEMENT.
- THESE ENCASEMENT DETAILS MAY ALSO BE APPLICABLE FOR CONDUITS OTHER THAN STORM OR SANITARY SEWER INSTALLATIONS.
- IN CERTAIN SITUATIONS WHERE CONDUIT DIAMETER "D" IS EXTREMELY LARGE, PIER SUPPORTS ON EACH SIDE OF SANITARY SEWER MAY ALSO BE REQUIRED. IF REQUIRED, SUPPORTS SHALL BE SPECIFIED AND DETAILED SEPARATELY ON PLAN AND PROFILE DRAWINGS.

STONEGATE VILLAGE METROPOLITAN DISTRICT  
CONCRETE ENCASEMENT TYPE II

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 7



PRECAST MANHOLE ECCENTRIC CONE

**NOTES:**

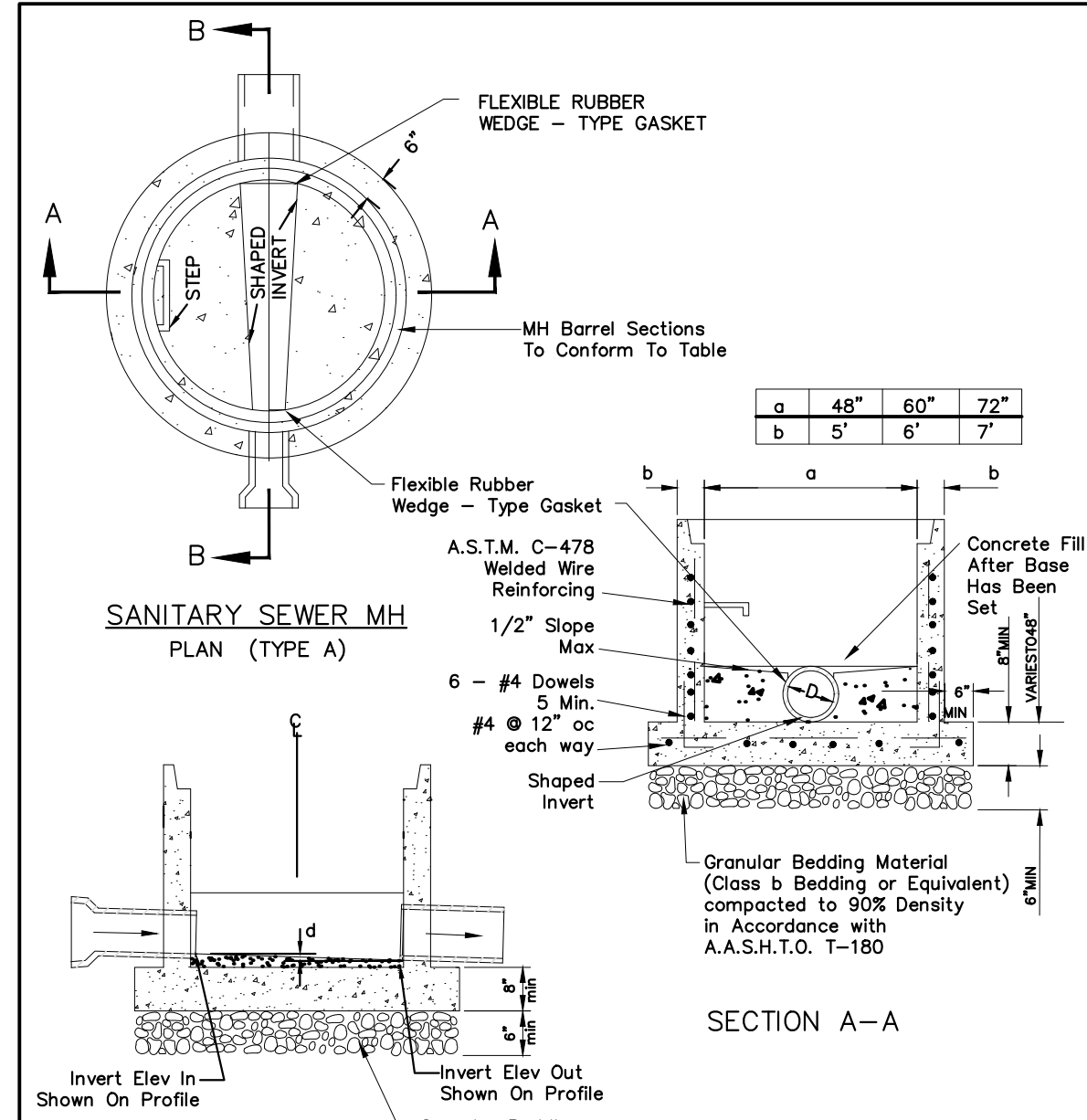
- RING/COVER AND CHIMNEY SHALL BE CENTERED ON CONCRETE RINGS/RAMMECK.
- FLAT TOP SECTIONS MAY BE USED IN LEV OF ECCENTRIC MANHOLES WHEN SPECIFICALLY APPROVED BY DISTRICT ENGINEER.
- FOR MANHOLE DEPTHS LESS THAN 4' FROM RIM TO TOP OF BENCH, VERTICAL MANHOLE BARRELS WITH PRECAST FLAT TOP SECTIONS ARE REQUIRED.
- ALL PRECAST MANHOLE SECTIONS, FLAT TOPS, BARRELS, REDUCERS, ETC. SHALL CONFORM TO ASTM C-478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED MANHOLE SECTIONS.
- FLAT TOPS SHALL BE CAPABLE OF WITHSTANDING H-20 LIVE LOADS.
- ALL INTERIOR SEAMS AND PIN HOLES SHALL BE GROVED WITH TYPE I CEMENT MIX.
- SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING CONCRETE BASE.
- FLAT TOP SECTIONS WITH CONCENTRIC OPENINGS ARE NOT ALLOWED.
- MANHOLE STEPS SHALL NOT BE INSTALLED OVER THE FLOW CHANNEL. THEY SHALL BE PLACED 12" MINIMUM OR 16" MAXIMUM IN STRAIGHT VERTICAL ALIGNMENT WITH THE BOTTOM STEP 8" ABOVE THE BENCH MINIMUM.
- FLEXIBLE ASPHALTIC SEALANT (RAMMECK ETC.) IS REQUIRED IN SHIP-LAP JOINTS AND IN JOINTS BETWEEN BASE, BARREL SECTIONS, CONE SECTIONS, FLAT TOPS, ETC.
- DESIGN ENGINEER OR DISTRICT ENGINEER MAY INCREASE MANHOLE SIZE FOR SPECIAL DESIGN CONSIDERATIONS.
- SLIP-RING FRAME RISERS MAY NOT BE USED.

PIPE I.D.	MANHOLE I.D.
18" & SMALLER	4'-0"
21" TO 48"	5'-0"
54"	6'-0"
60" & LARGER	SPECIAL DESIGN

STONEGATE VILLAGE METROPOLITAN DISTRICT  
PRECAST MANHOLE ECCENTRIC CONE

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 9



SANITARY SEWER MH PLAN (TYPE A)

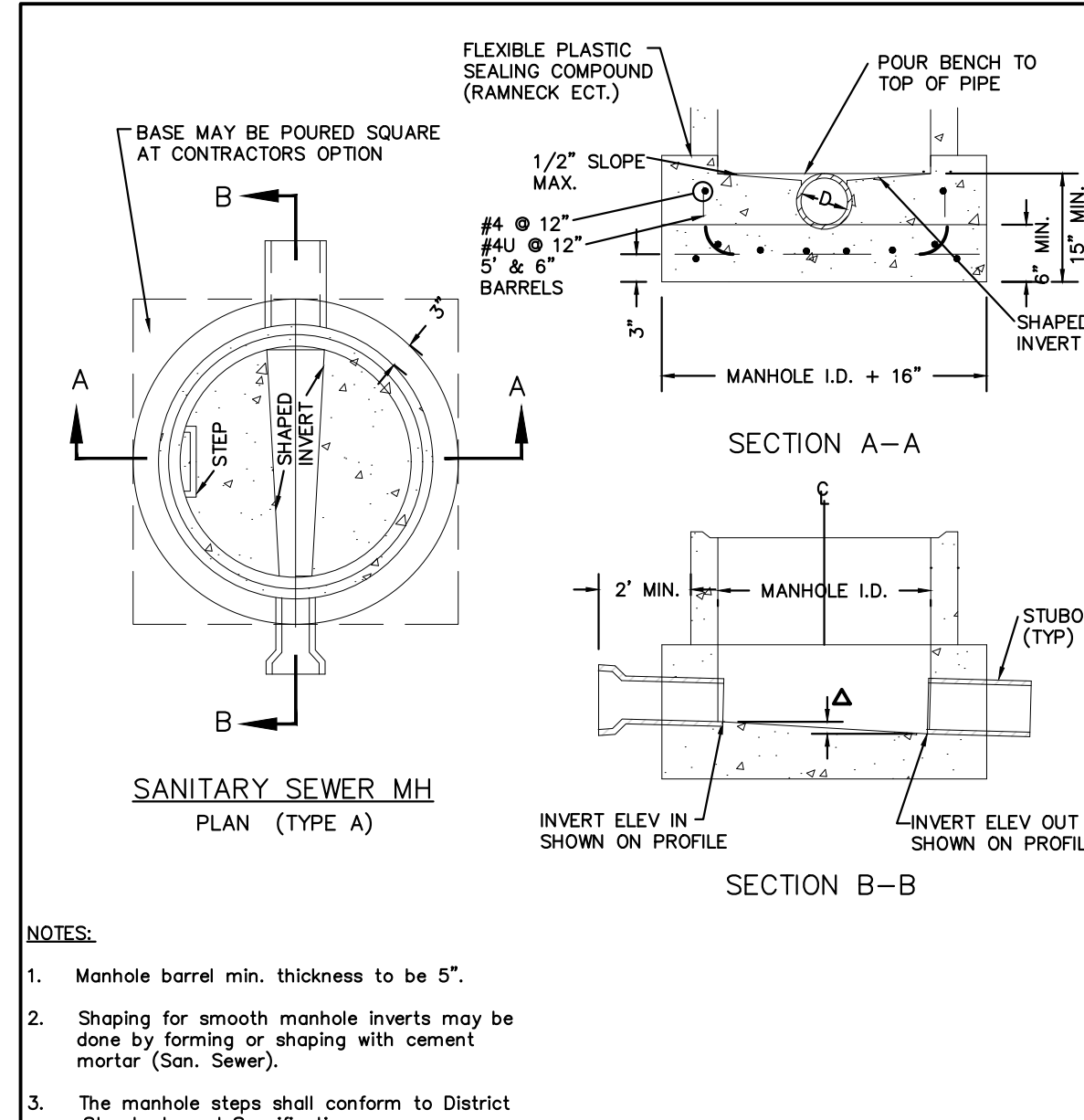
**NOTES:**

- Base slab shall be cast monolithic with the bottom riser section.
- All pipe openings shall be formed with an approved flexible rubber wedge - type gasket conforming to A.S.T.M. C-443 which shall be capable of providing a water - tight joint with zero leakage around the installed pipe(s).
- Manhole steps installed in bottom riser section shall conform to Division Standards and Specifications.
- Ship-lap joint on manhole barrel riser shall conform to Division Standards and Specifications, however as an alternate a special adapter section may be provided at the first joint in the bottom riser section which will adapt the precast base section to Division standard manhole riser sections.
- Grouted flow channels and inverts shall conform to Division Standards and Specifications. Manhole barrel min. diameter shall conform to table. Precast barrel sections to conform to A.S.T.M. C-478. All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
- Stub outs shall extend 2'-0" min past manhole O.D. and be satisfactory plugged.
- 2.9 Stub outs shall extend 2'-0" min past manhole O.D. and be satisfactory plugged.
- 2.10 Max. slope of bench = 1/2".
- 2.11  $\Delta$  Invert drop thru Manhole (if  $> 18"$ , outside drop MH req'd)

STONEGATE VILLAGE METROPOLITAN DISTRICT  
PRECAST MANHOLE BASE DETAIL

SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 12



SANITARY SEWER MH PLAN (TYPE A)

**NOTES:**

- Manhole barrel min. thickness to be 5".
- Shaping for smooth manhole inverts may be done by forming or shaping with cement mortar (San. Sewer).
- The manhole steps shall conform to District Standards and Specifications.
- Precast sections to conform to A.S.T.M C-478.
- All dead-end manholes shall be stubbed thru at 0.40% minimum slope.
- Stub outs shall extend 2'-0" minimum past manhole O.D. and be satisfactorily plugged.
- Reinforcing in base required for manhole.
- Maximum slope of bench = 1/2".
- $\Delta$  = invert drop thru MH (if  $> 18"$ , outside drop MH required).

STONEGATE VILLAGE METROPOLITAN DISTRICT  
CAST-IN-PLACE MANHOLE BASE DETAIL

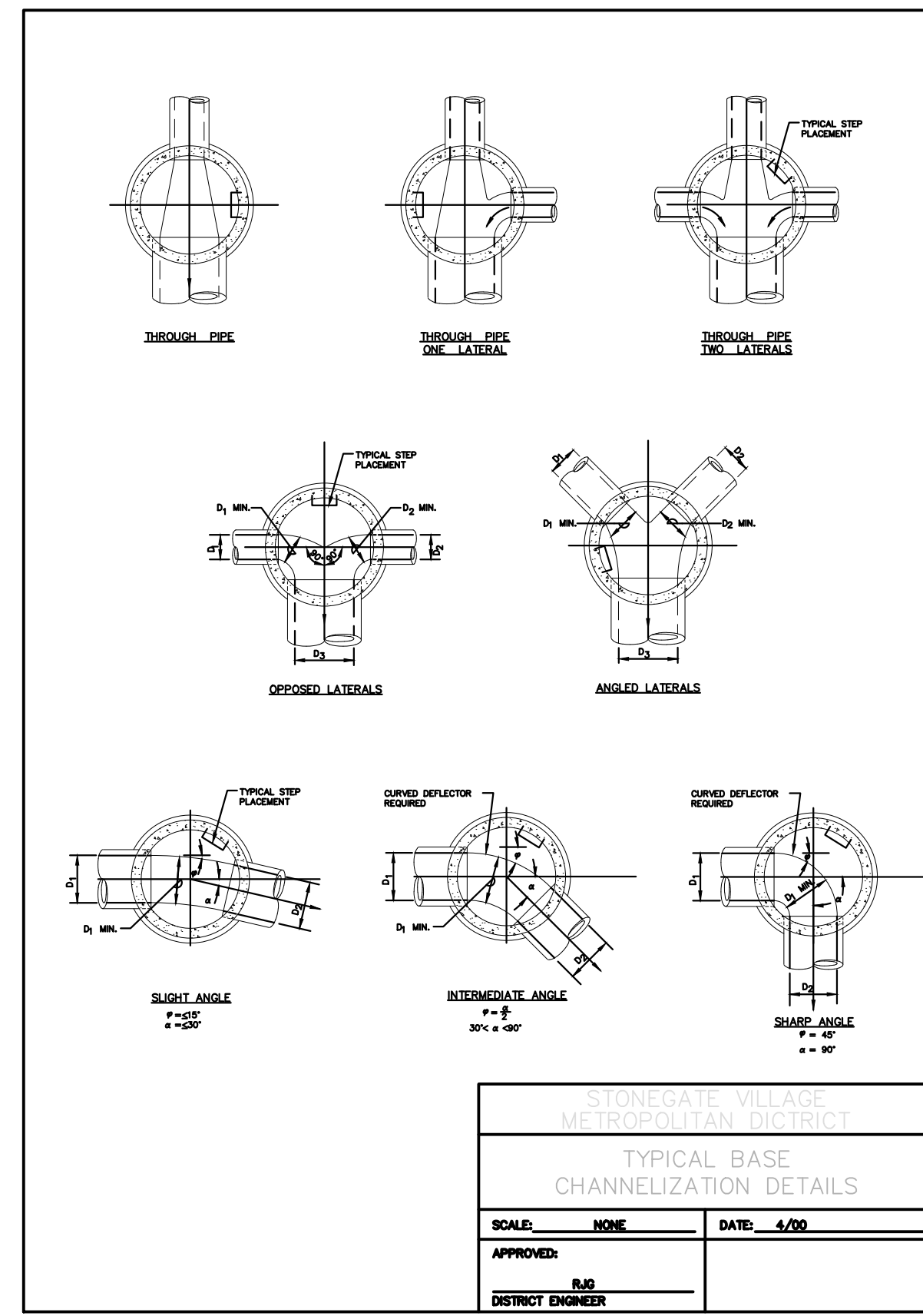
SCALE: NONE DATE: 4/00  
APPROVED: RJD DISTRICT ENGINEER

2000 REVISION SHEET 13

NO.	ISSUED FOR CONSTRUCTION	DATE	CHNO/CHKD/APPRI
0	ISSUED FOR CONSTRUCTION	7/19/2024	
	REV	REVISION DESCRIPTION	

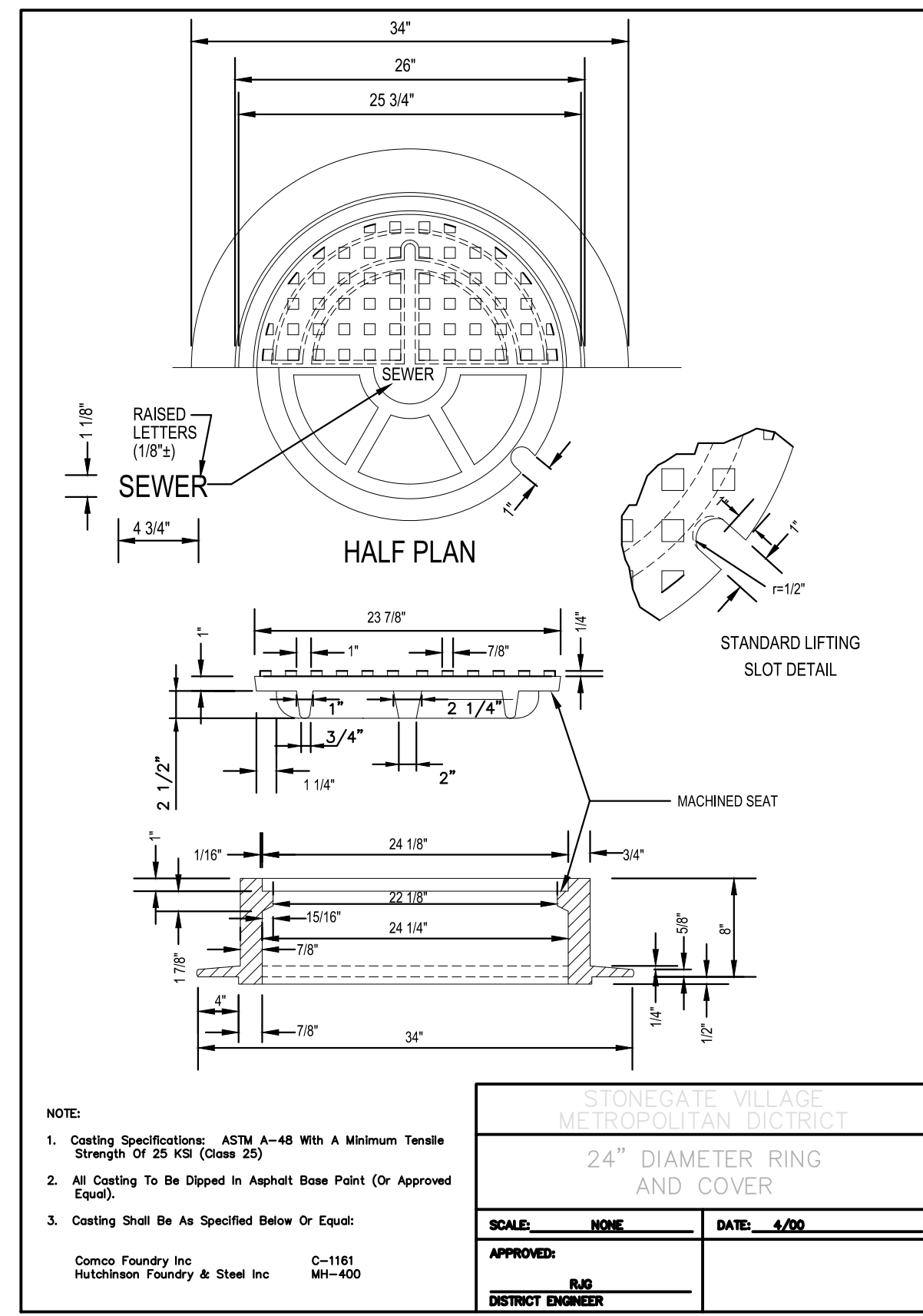


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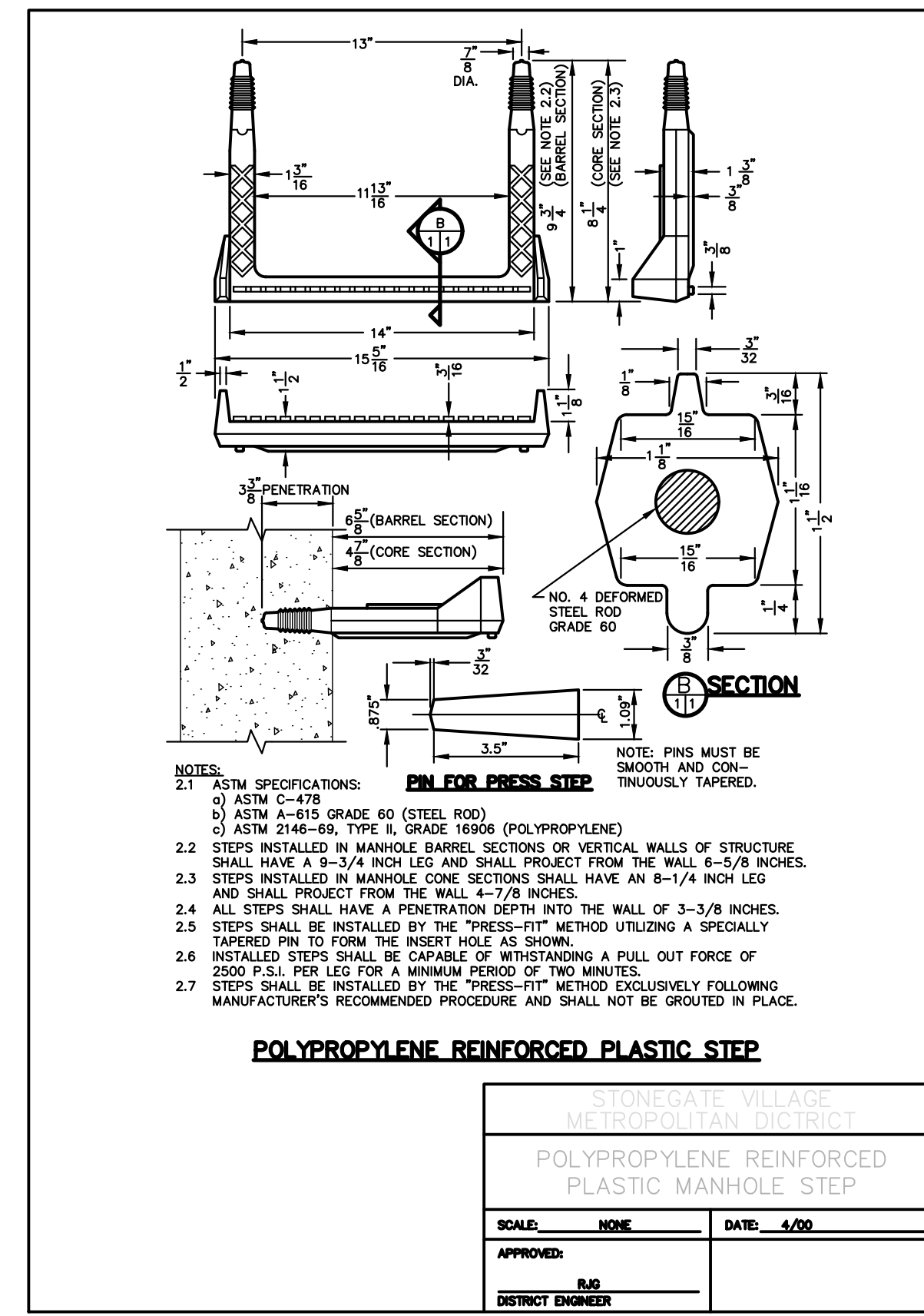
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SHEET 15



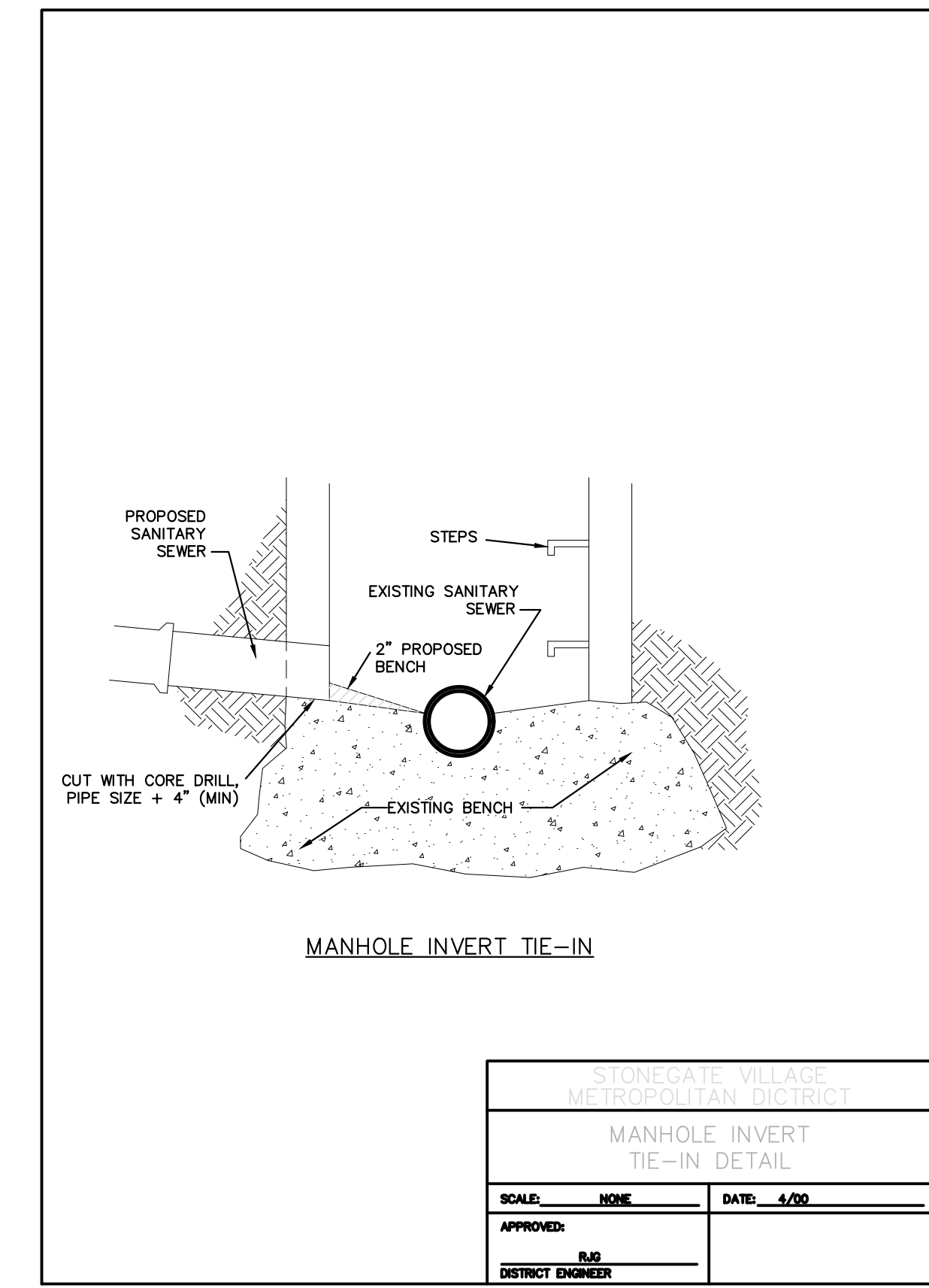
2000 REVISION

SHEET 17



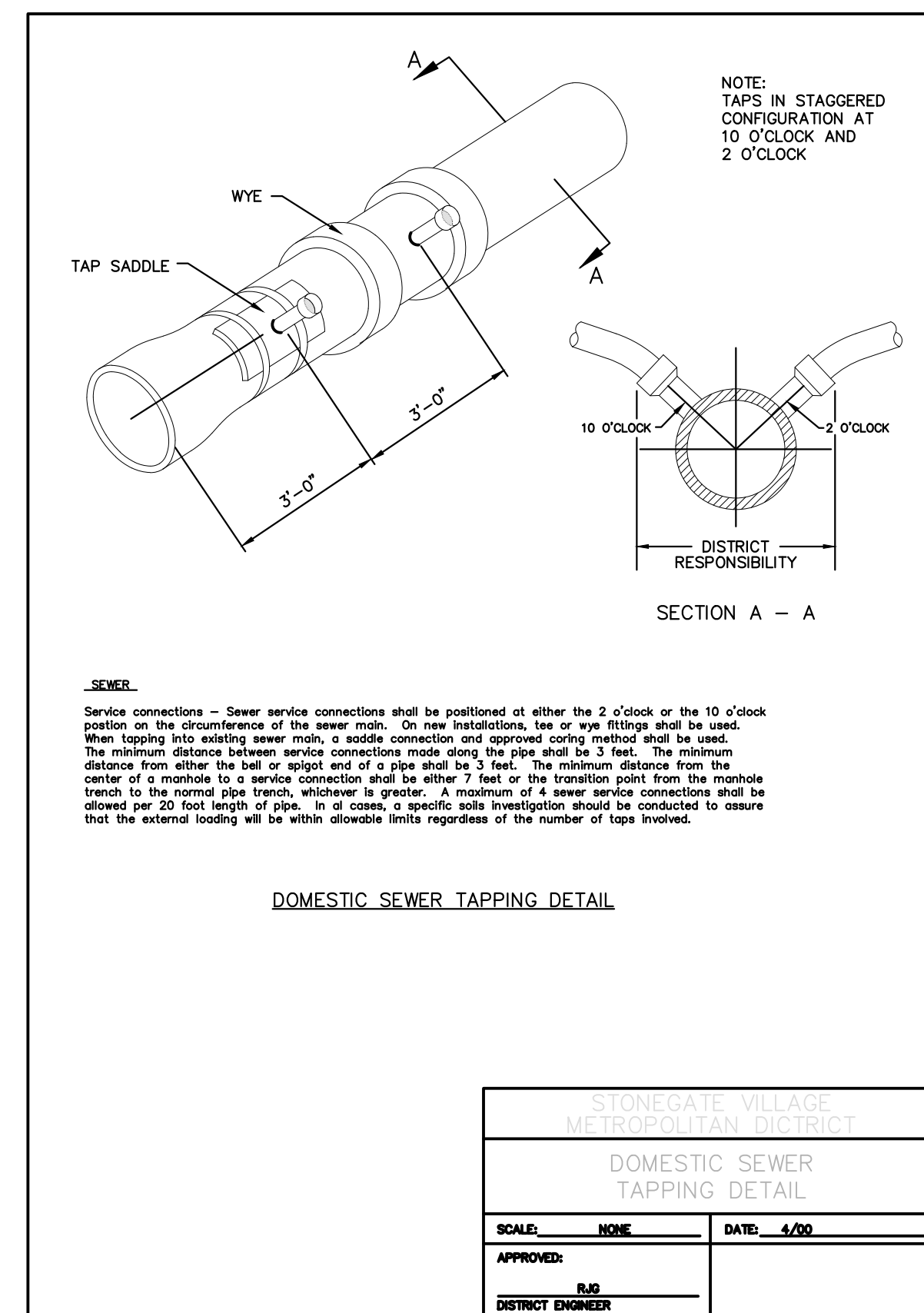
2000 REVISION

SHEET 20



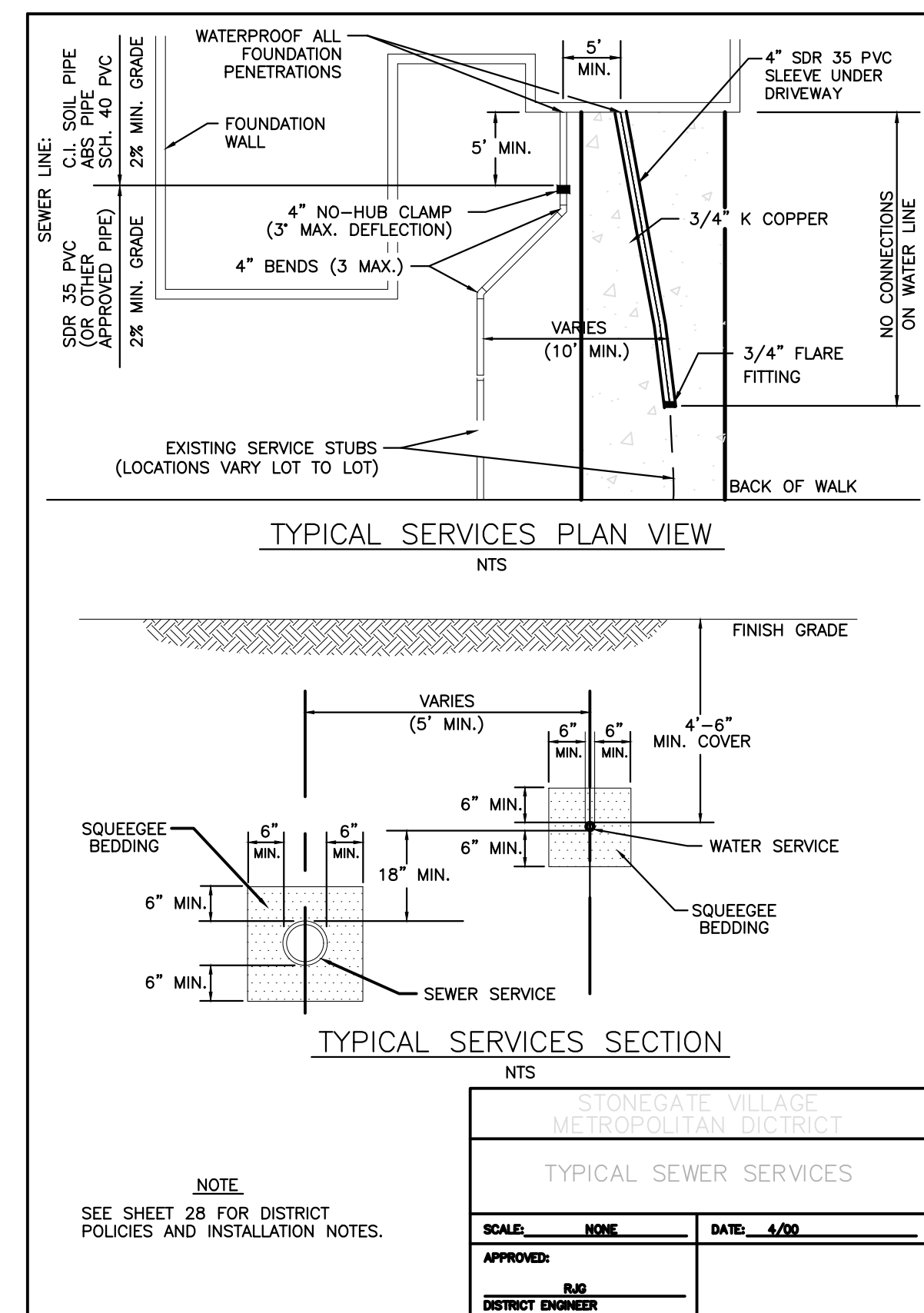
2000 REVISION

SHEET 22



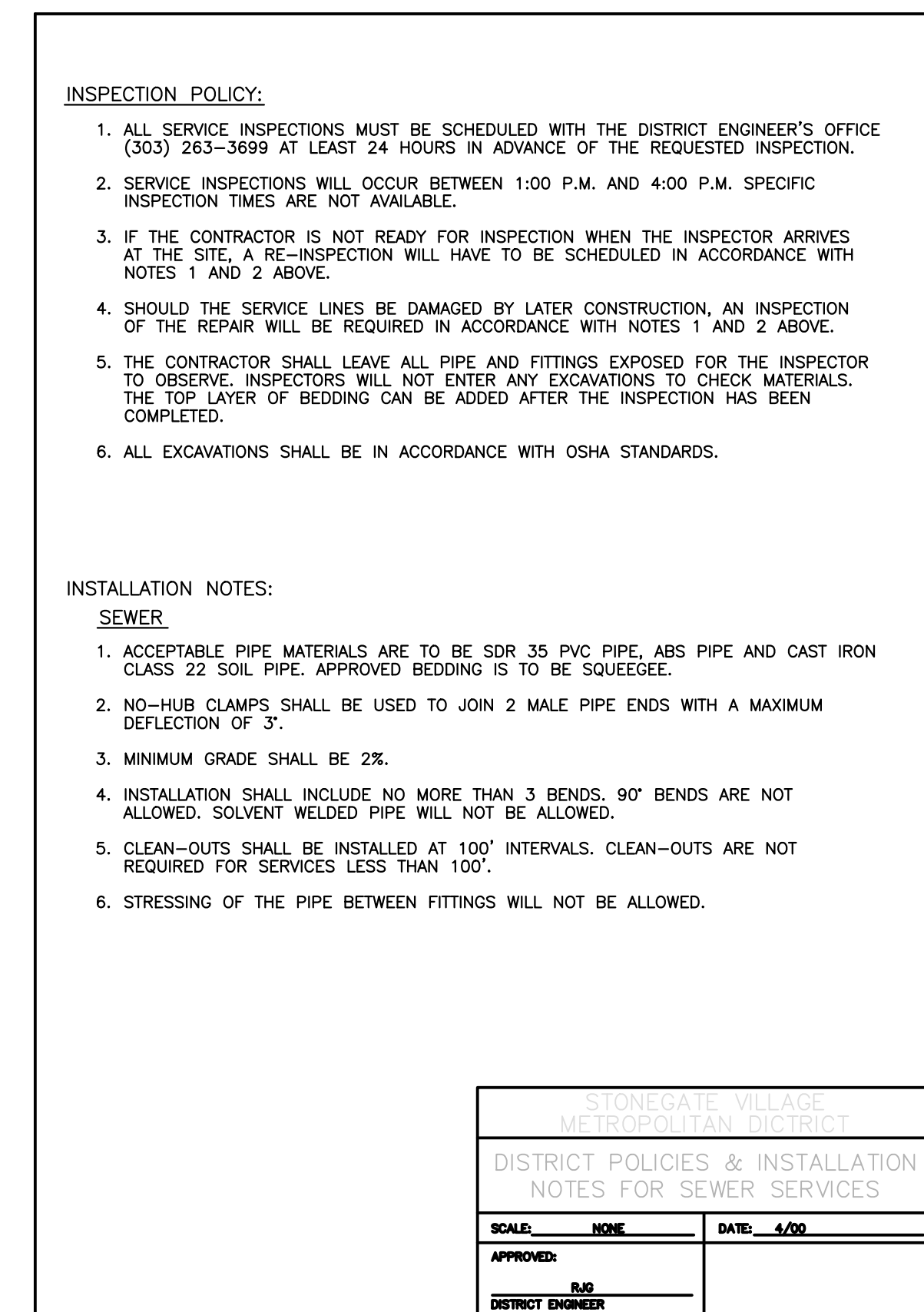
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SHEET 27



2000 REVISION

SHEET 28



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SHEET 29

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REV/REVISION DESCRIPTION			
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