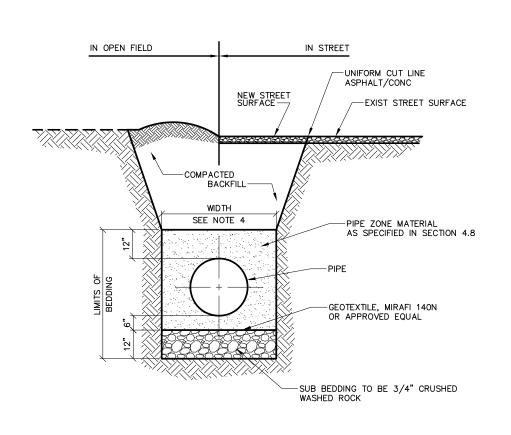


NOTES:

- 1. NEW STREET SURFACE SHALL COMPLY WITH LOCAL AUTHORITY JURISDICTION.
- 2. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA.
- 3. MIN COVER TO BE BELOW OFFICIAL STREET GRADE.

PIPE ø	MIN WIDTH	MAX WIDTH
4"	1'-4"	2'-4"
6 "	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"
24"	4'-0"	5'-0"

	EK VILLAGE AN DISTRICT
	NCH SECTION OTECTION
Scale: NONE	Date: <i>FEB 2010</i>
Approved:	Rev.

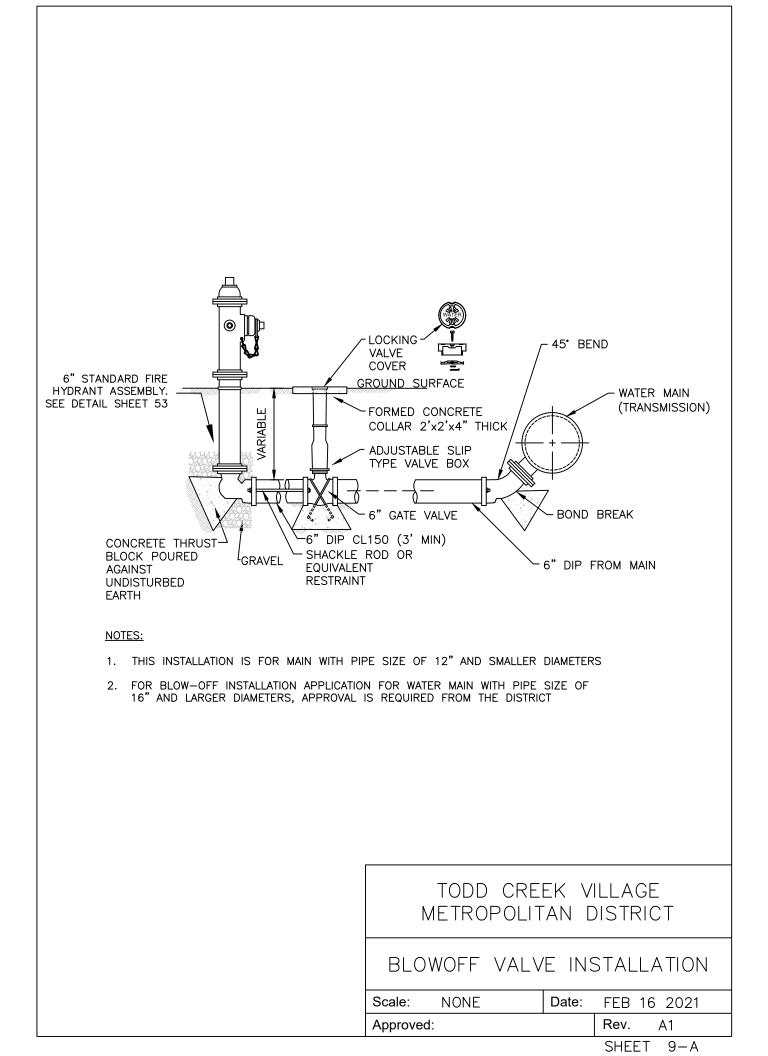


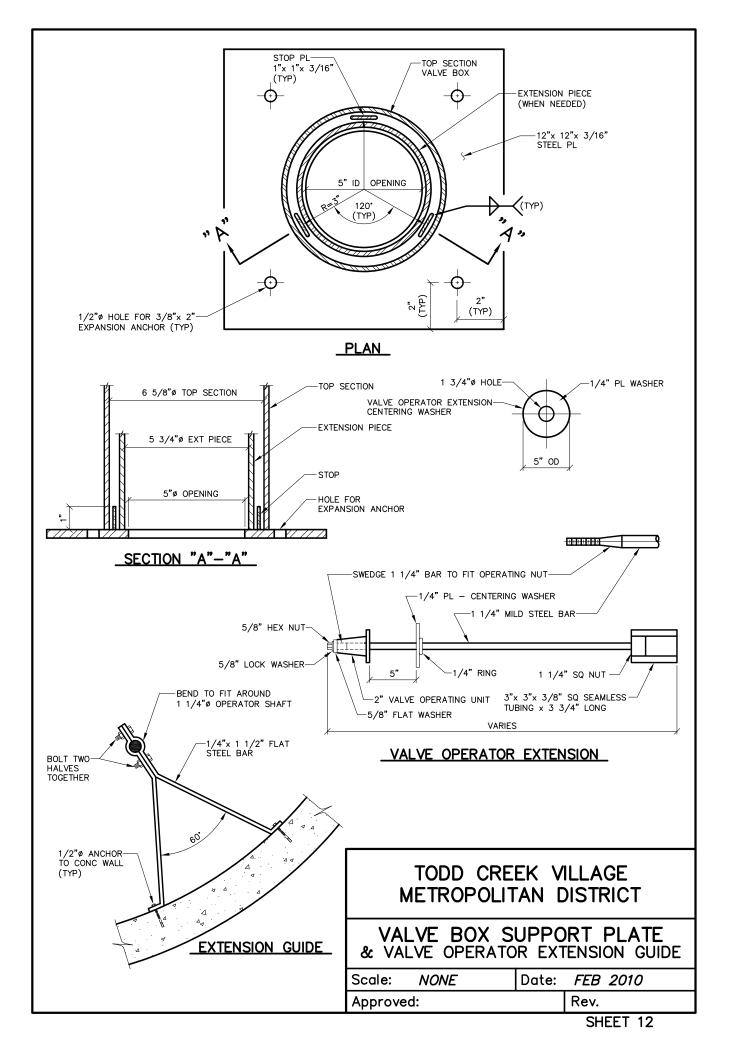
TYPICAL TRENCH SECTION

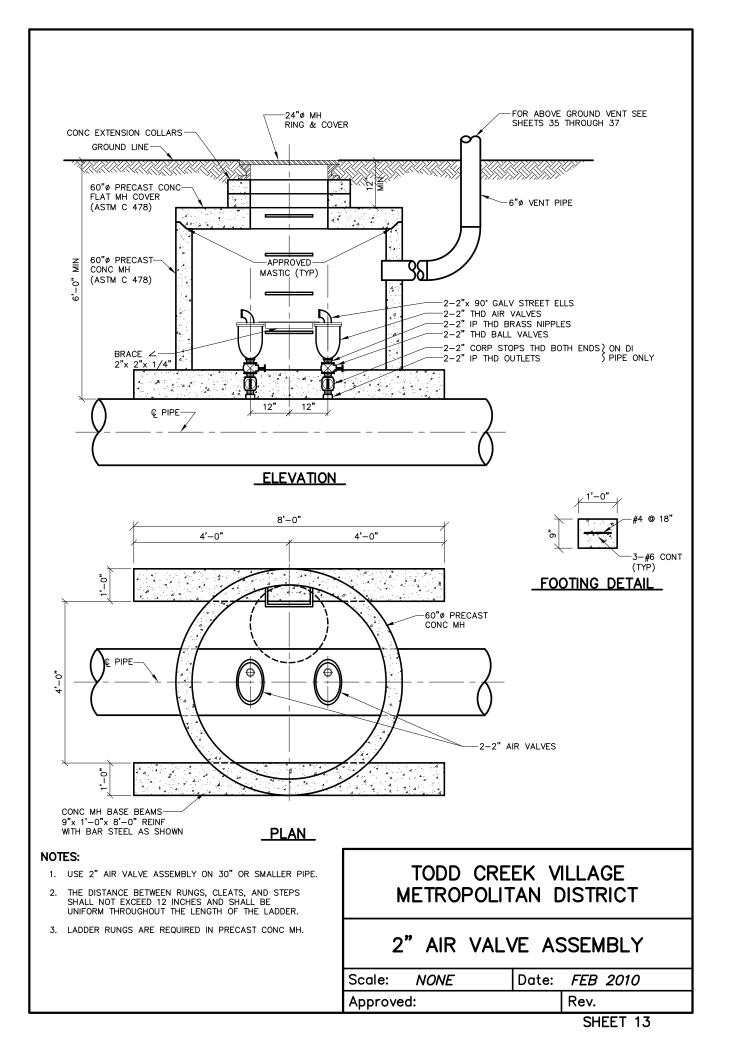
NOTES:

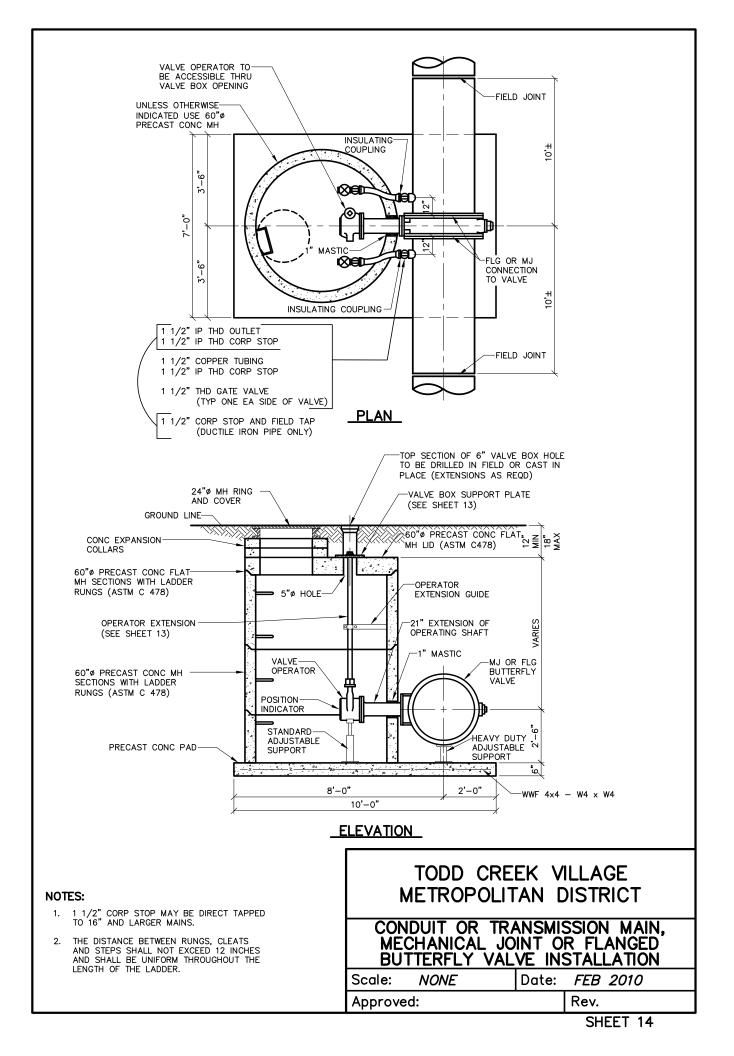
- 1. MIN COVER TO BE 4'-6" BELOW OFFICIAL STREET GRADE.
- 2. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY OSHA.
- 3. PIPE SHALL BE BEDDED FROM 18" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
- 4. TRENCH WIDTH SHALL NOT BE MORE THAN 16" NOR LESS THAN 12" WIDER THAN THE LARGEST OD OF PIPE.
- 5. COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 4.10.
- 6. TAPPING SADDLES REQUIRED IN AREAS WHERE THE BEDDING SECTION IS USED.
- 7. PROVIDE DISTRICT WITH SOILS REPORT DESCRIBING EXPANSIVE CHARACTERISTICS OF THE SOIL.

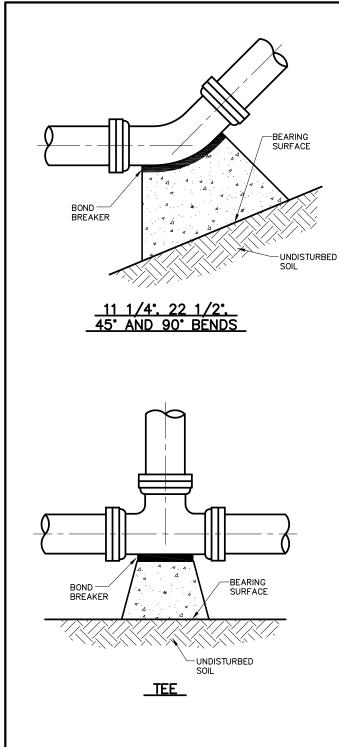
	N			ILLAGE DISTRICT	-
				ECTION ISIVE SO	
5	Scale:	NONE	Date:	FEB 2010)
4	Approve	ed:		Rev.	
				SHEET	8





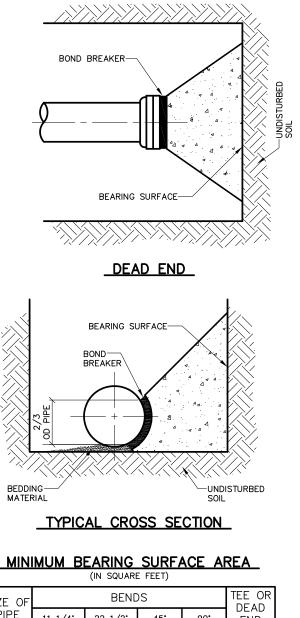






NOTES:

- 1. ON 16" AND 20" TRANSMISSION MAINS, ALL BENDS SHALL BE BOTH RODDED AND KICKBLOCKED.
- 2. BEARING SURFACES SHOWN IN CHART ARE MIN.
- BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER.
 4", 6", 8" AND 12" WATER HAMMER = 110 PSI 16", 20" AND 24" WATER HAMMER = 70 PSI
- 4. BASED ON 3,000 PSF SOIL BEARING CAPACITY.



SIZE OF		BENDS							
PIPE	11 1/4	22 1/2	45 *	90•	DEAD END				
4"	1.00	1.00	1.00	N/A	1.50				
6"	1.00	1.25	2.25	N/A	3.00				
8"	1.00	2.00	4.00	N/A	5.25				
12"	2.25	4.50	8.75	N/A	11.25				
16"	3.75	7.50	14.50	27.00	19.00				
20"	5.00	10.00	19.50	35.50	25.00				
24"	7.00	14.00	27.75	51.00	36.00				

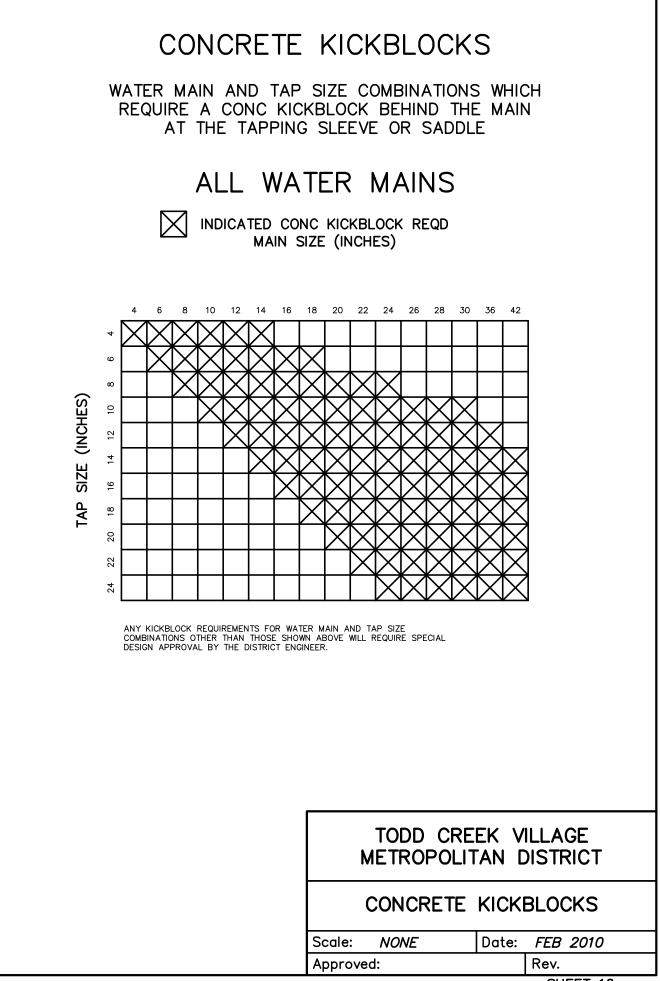
TODD CREEK VILLAGE METROPOLITAN DISTRICT

CONCRETE KICKBLOCKS BEARING SURFACES & INSTALLATION

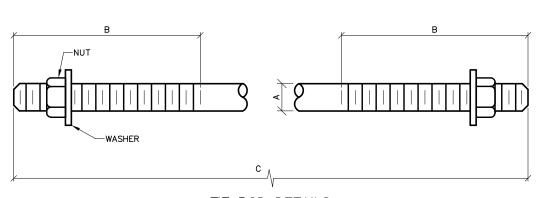
Scale: NONE

Date: *FEB 2010* Rev.

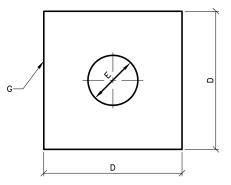
Approved:



ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE	IPE SIZE 4" 6" 8" 12" 16" 20" 24"	FITTING D L G D L G D L G D L G D L G D L G D L G D L G D L G C L G	0° BEND, 3/4" 30' MS 3/4" 45' MS 3/4" 60' MS 3/4" 86' MS 1" 108' HS 1 1/4" 132' HS - 155' -	VALVE	-5° BEND 3/4" 9' MS 3/4" 13' MS 3/4" 18' MS 3/4" 25' MS 1" 25' MS 1" 32' MS 3/4" 59' HS - 45' -	22 1/2 [•] 3/4" 1' MS 3/4" 4' MS 3/4" 5' MS 3/4" 7' MS 3/4" 8' MS 3/4" 10' MS - 12' -	11 1/4 3/4" 1' WS 3/4" 2' WS 3/4" 2' WS	NOTES: 1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.	2. CLAMPS, RODS & MEGALUCS NOT ALLOWED FOR 24" & LARGER PIPES.	3. D=DIAMETER, L=LENGTH, G=GRADE, MS=MILD STEEL, HS=HIGH STRENGTH.	4. MIN 4.5' GROUND COVER REQD.	PLUG 5. BASED ON 150 PSI INTERNAL PRESSURE.	6. MS = MILD STEEL ROD ASTM A 36.	7. HS = HIGH STRENGTH ROD ASTM A 193 GRADE B7.	TEE 8. NUTS SHALL BE ASTM A 307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL CONFORM TO MS-22.	9. SEE TIE ROD DETAIL SHEET 18. ALSO, TIE ROD COUPLING DETAILS (19), CLAMP DETAILS (21) AND SET CLAMP DETAILS.	C C	L L L L 1. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.	90° BEND VALVE 12. CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.	13. 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE. MECHANICAL JOINT RESTRAINT DEVICE SHALL BE PER MS-2.	14. A SECOND VALVE WILL BE REQD TO BE CLOSED WHEN EXCAVATING NEXT TO A EXIST VALVE.	15. ON PLUGS, TEES AND BENDS KICKBLOCK SHALL BE USED IN ADDITION TO RESTRAINT.	16. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.	17. IF INTERNAL PRESSURE EXCEEDS 150 PSI, THE ENGINEER SHALL PROVIDE LENGTH OF RESTRAINED PIPE FOR REVIEW
	6"		3/4" 45'	I	3/4" 13'	3/4" 4'	I					L			IE		 	L L L	VALVE	$\left\langle \right\rangle$	~	ľ		
	4"													I			Ι_	_		Ň		\searrow	BENDS	
	PIPE SIZE		90° BEND, TEE, PLUG				1/4. END		T		× -	<u>PLUG</u>		ļ	L				90° BEND		/ . 		I	
								- F			EN :	IE G1	TF	0 (P0		TAN ES ⁻	۷		LAG STR NED	IC F	PIF	°E	



TIE ROD DETAILS



WASHER DETAIL

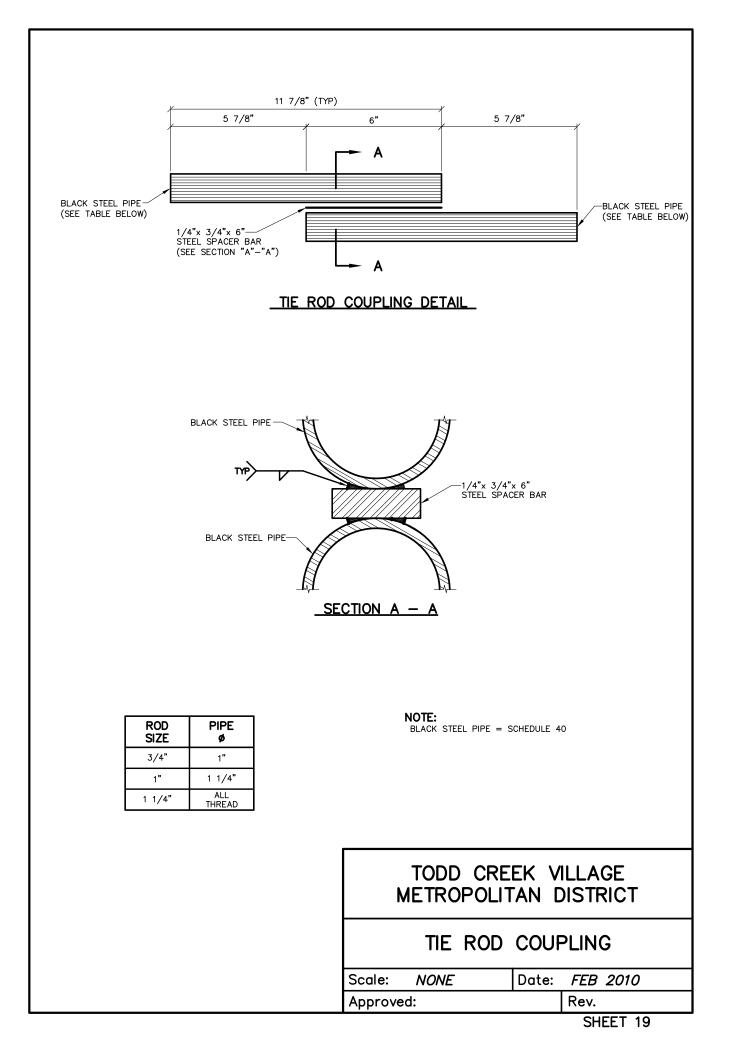
TIE RODS								
Α	В	С						
ROD Ø	THREAD LENGTH	ROD LENGTH	GRADE					
3/4", 1"	6"	1' TO 11' & 20'	MS					
3/4", 1 1/2"	ALL THREAD	1' TO 11' & 20'	HS					

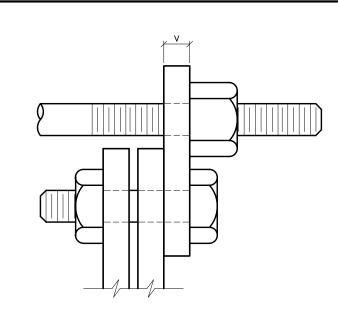
	WASHERS									
D	F	G								
WIDTH	HOLE Ø	THICKNESS								
5"	1/8" LARGER THAN ROD Ø	1/2"								
6"	1/8" LARGER THAN ROD Ø	5/8"								

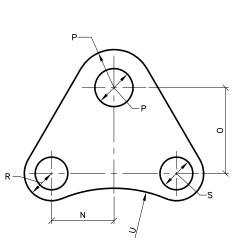
NOTES:

- 1. SEE TIED JOINTS, ROD DIMENSIONS SHEET.
- 2. SEE CLAMP DETAILS AND DIMENSION (SHEET 21) FOR PROPER PLACEMENT OF WASHERS.
- 3. MS=MILD STEEL HS=HIGH STRENGTH

	EK VILLAGE AN DISTRICT
TIE ROD & WA	SHER DETAILS
Scale: NONE	Date: <i>FEB 2010</i>
Approved:	Rev.
	SHEET 18







FLANGE LUG DETAIL

PIPE			HS	RODS	MS	RODS					PIPE
ø	N	0	Р	ROD Ø	Р	ROD ø	R	S	U	V	ø
3	2 1/8	2 9/16"	7/8	3/4	7/8	3/4	3/4	5/8	2 3/8	3/4	3
4	1 7/16	2	7/8	3/4	7/8	3/4	3/4	5/8	3 1/8	3/4	4
6	1 13/16	2 1/16	7/8	3/4	7/8	3/4	7/8	3/4	4	3/4	6
8	2 1/4	2 1/4	7/8	3/4	7/8	3/4	7/8	3/4	5 1/8	3/4	8
10	1 7/8	2 1/16	7/8	3/4	7/8	3/4	1	7/8	6 1/4	3/4	16"
12	2 1/4	2 5/16	7/8	3/4	-	-	1	7/8	5 7/8	1	10
16	2 1/8	2 7/16	1 1/8	1	-	-	1 1/8	1	9 5/8	1 1/8	12
20	2	2 5/8	1 3/8	1 1/4	-	-	1 1/4	1 1/8	11 3/8	1 1/4	20
24	RODS AND CLAMPS NOT ALLOWED									24	

DIMENSIONS

(IN INCHES)

NOTES:

1. MS MEANS MILD STEEL ROD ASTM A 36 (NUTS SHALL BE ASTM A 307 GRADE A OR B HEXAGON HEAVY SERIES)

2. HS MEANS HIGH STRENGTH STEEL ROD ASTM A 193 GRADE B7. (NUTS SHALL BE ASTM A 194 GRADE 2H)

TODD CREEK	VILLAGE
METROPOLITAN	DISTRICT

FLANGE LUG DETAIL

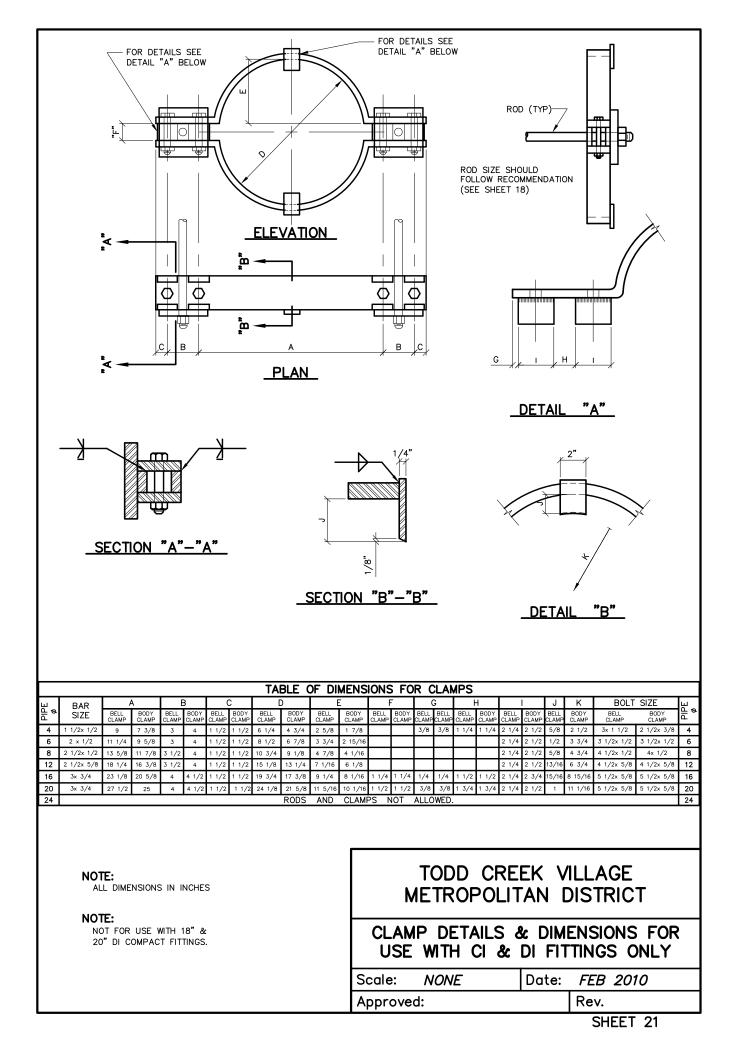
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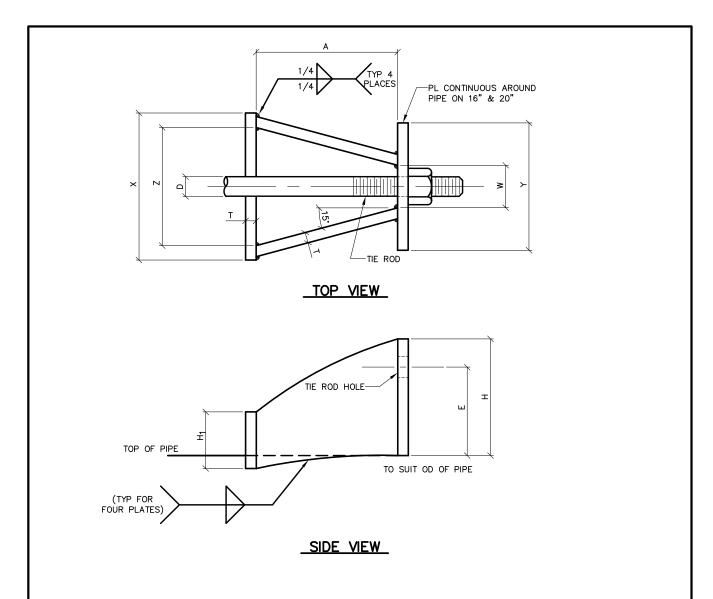
Date: *FEB 2010*

Approved:

SHEET 20

Rev.

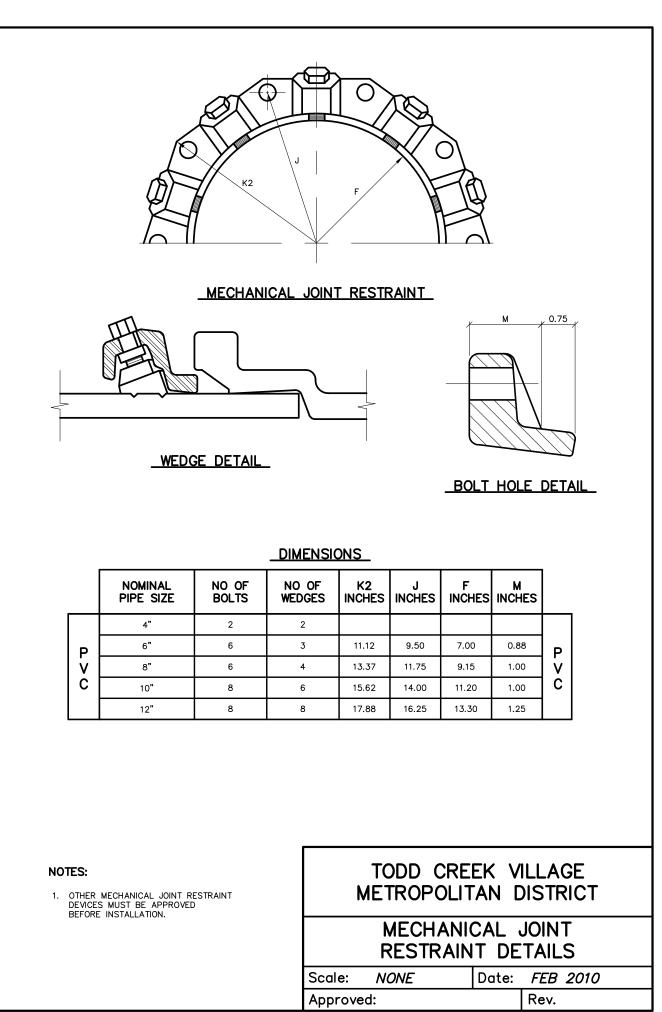


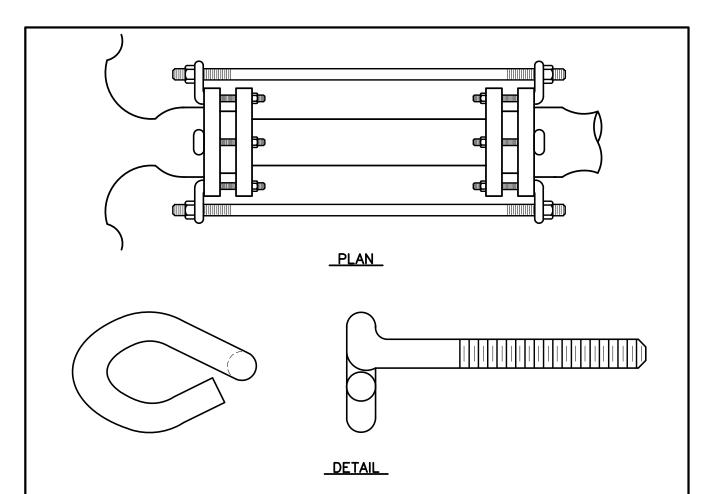


	CARRIER PIPE NOMINAL Ø	STUD Ø D	A	w	z	т	н	E	H ₁	Y	×
CSED CSED	4" TO 12"	3/4"	5"	1 1/2"	3 3/4"	3/8"	4 1/8"	3 1/8"	2"	4 1/2"	5"
	16"	1"	5 3/4"	1 3/4"	4 1/2"	1/2"	4 1/2"	3 1/4"	2"	RING	6"
5	20"	1 1/4"	7 1/2"	2"	5 3/4"	5/8"	5"	3 3/4"	2 1/2"	RING	7 1/2"

NOTES:

 USE TWO HS STEEL TIE RODS AT END OF CASING.
TIE ROD HOLE Ø 1/8" LARGER THAN STUD Ø.
BOTTOM EDGE OF ALL PLATES SHAPED TO FIT OD OF PIPE.
HARNESS LUGS AS PER AWWA MANUAL M11.
HARNESS LUGS AS PER AWWA MANUAL M11.
Scale: NONE Date: FEB 2010 Approved: Rev.

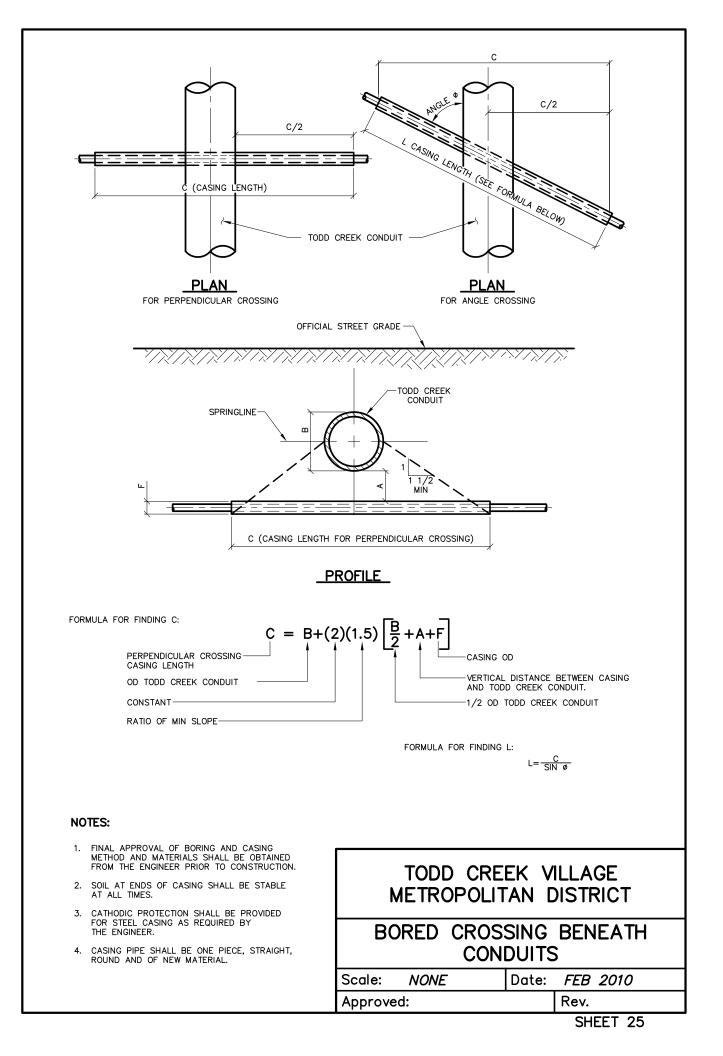


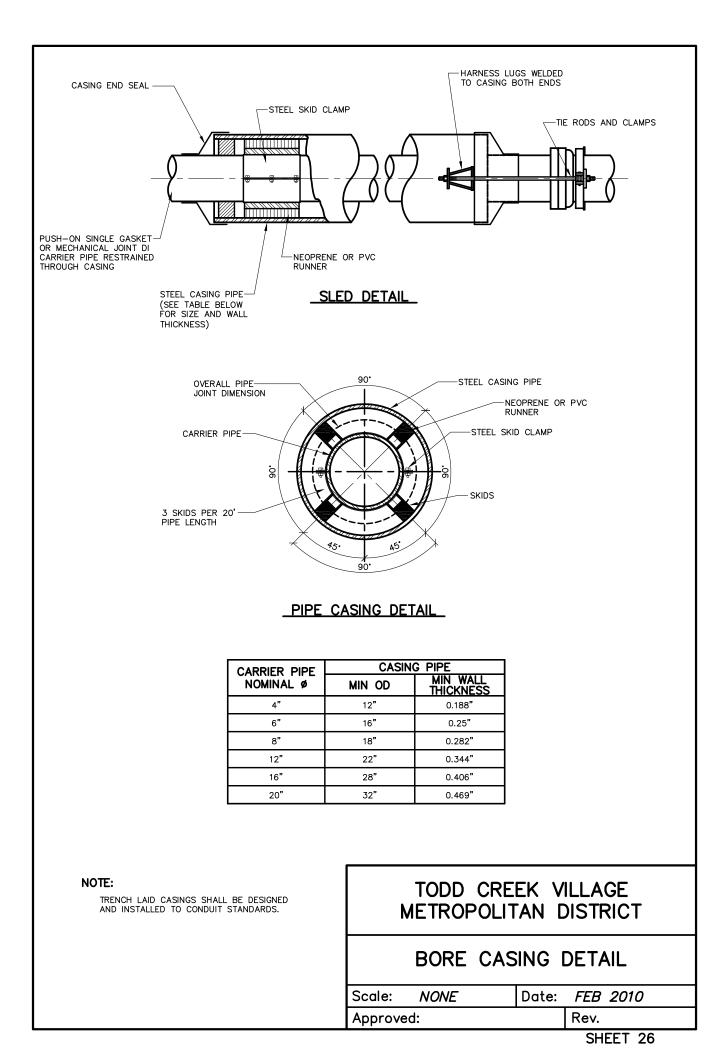


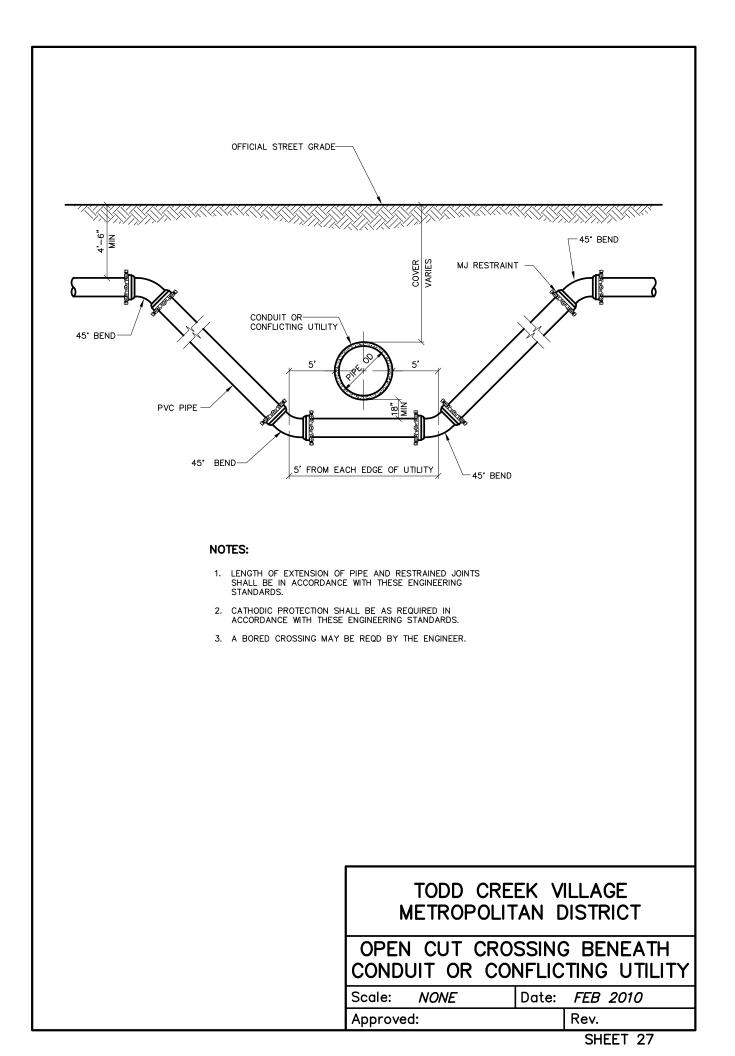
DIMENSIONS

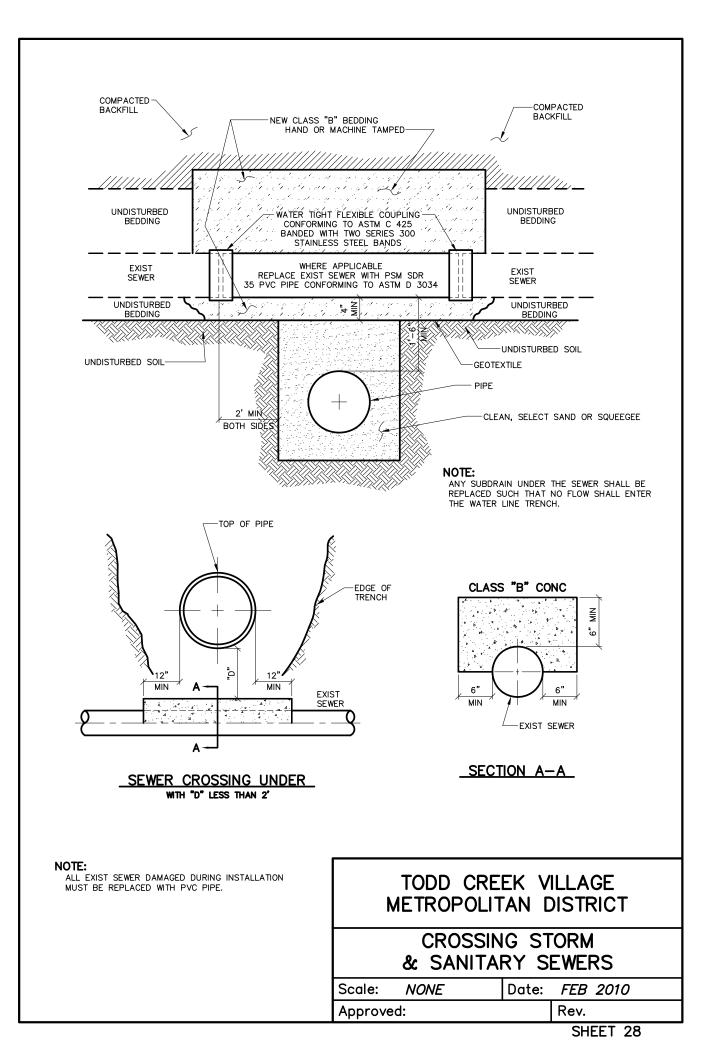
ALLOWABLE PIPE Ø INCHES	Bolt Size Inches	NO OF BOLTS REQD
4	3/4	2
6	3/4	2
8	3/4	2
10	3/4	4
12	3/4	6

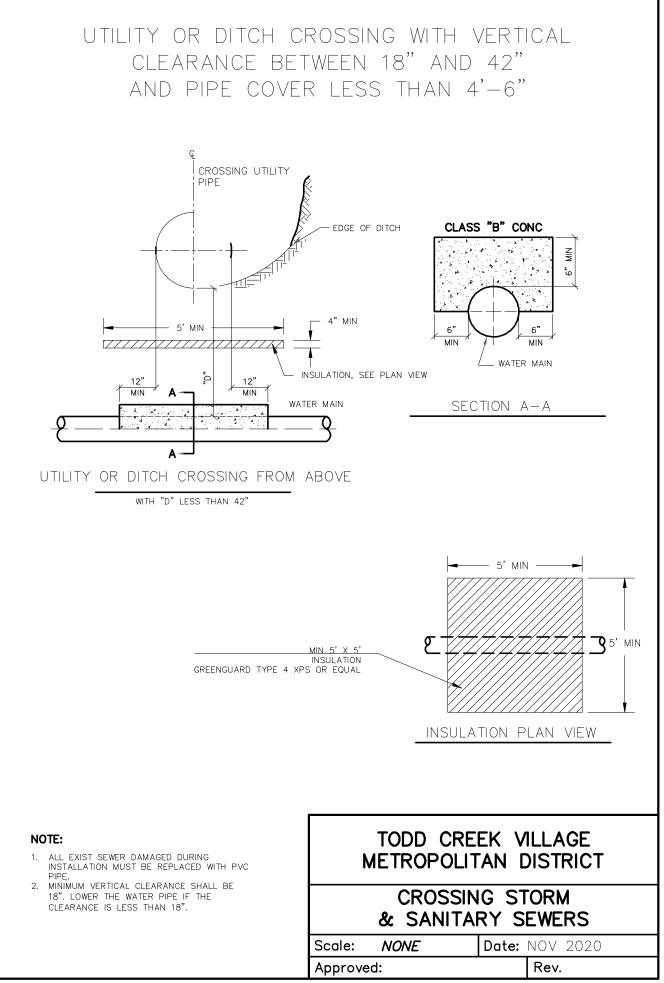
NOTES: 1. THE BOLT SHALL BE MANUFACTURED OF "COR-TEN" OR APPROVED EQUAL. 2. THE BOLT MAY BE HEAT TREATED.	TODD CREEK VILLAGE METROPOLITAN DISTRICT			
	JOINT RESTRAINT DETAIL			
	Scale:	NONE	Date:	FEB 2010
	Approve	d:		Rev.
				SHEET 24

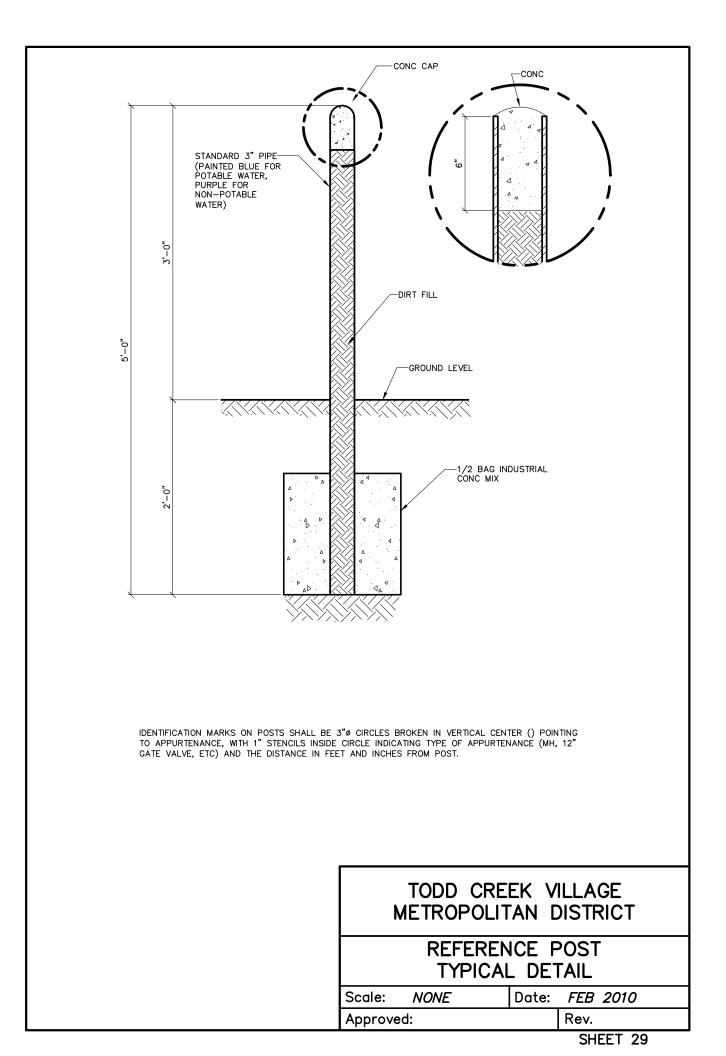


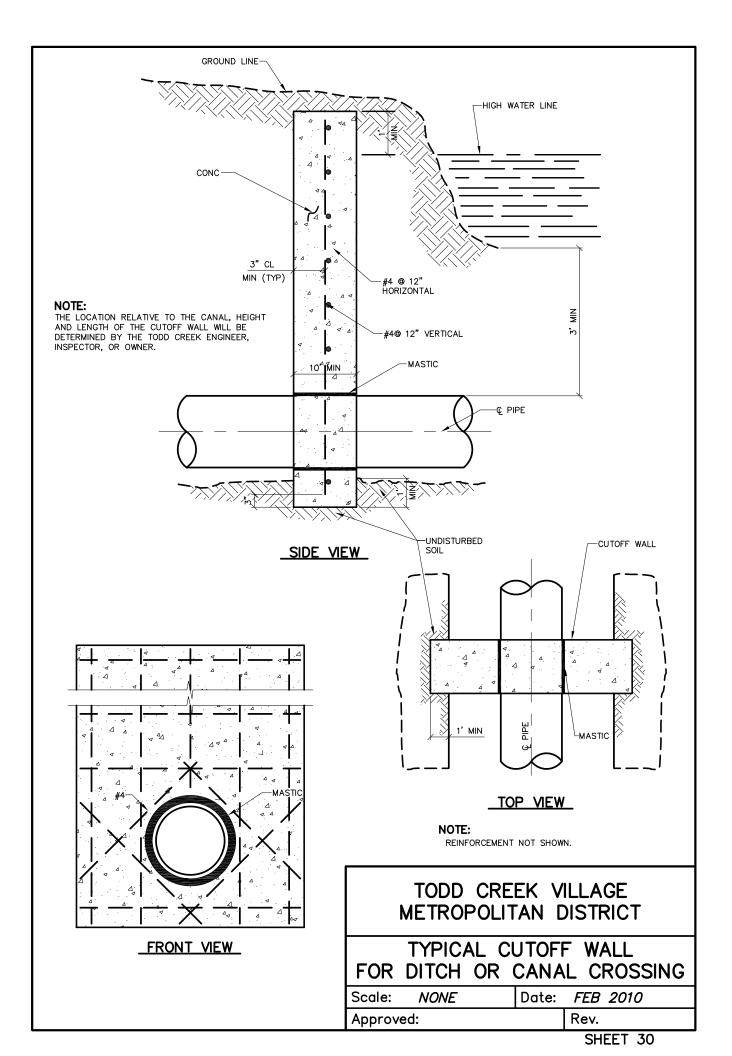


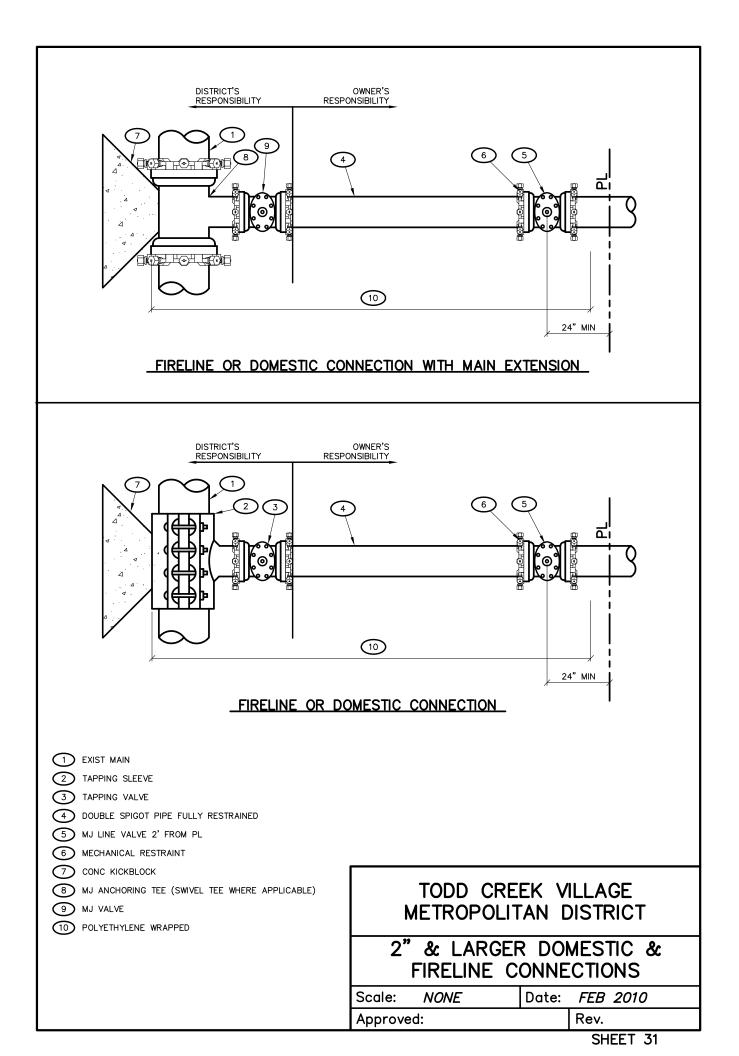


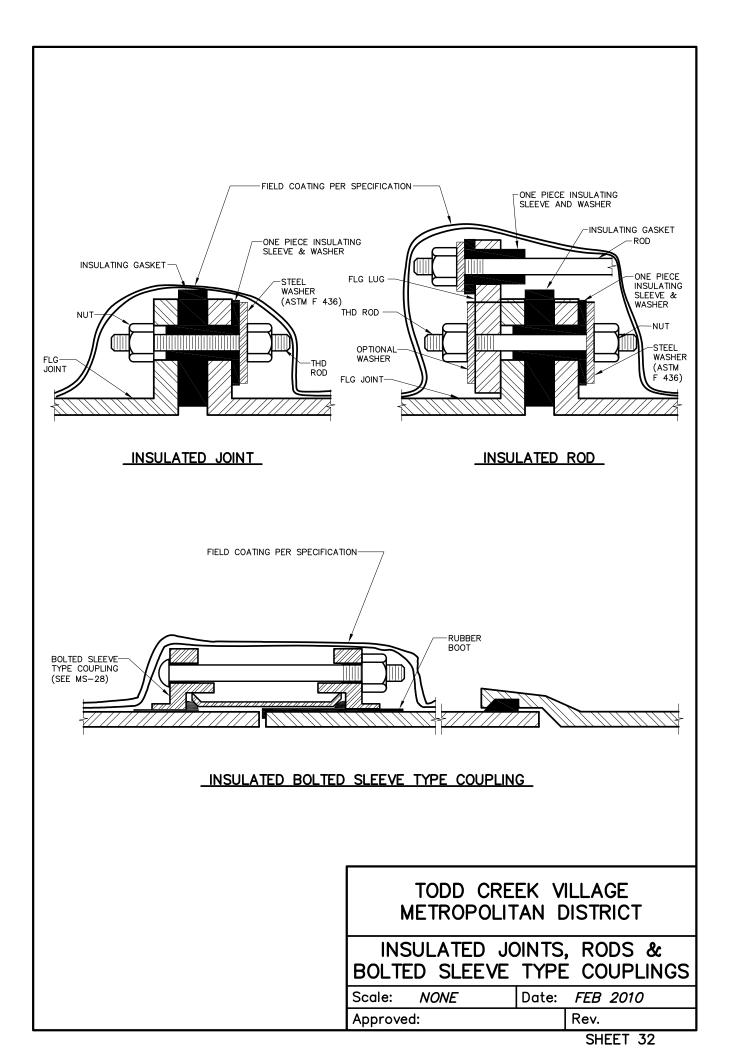


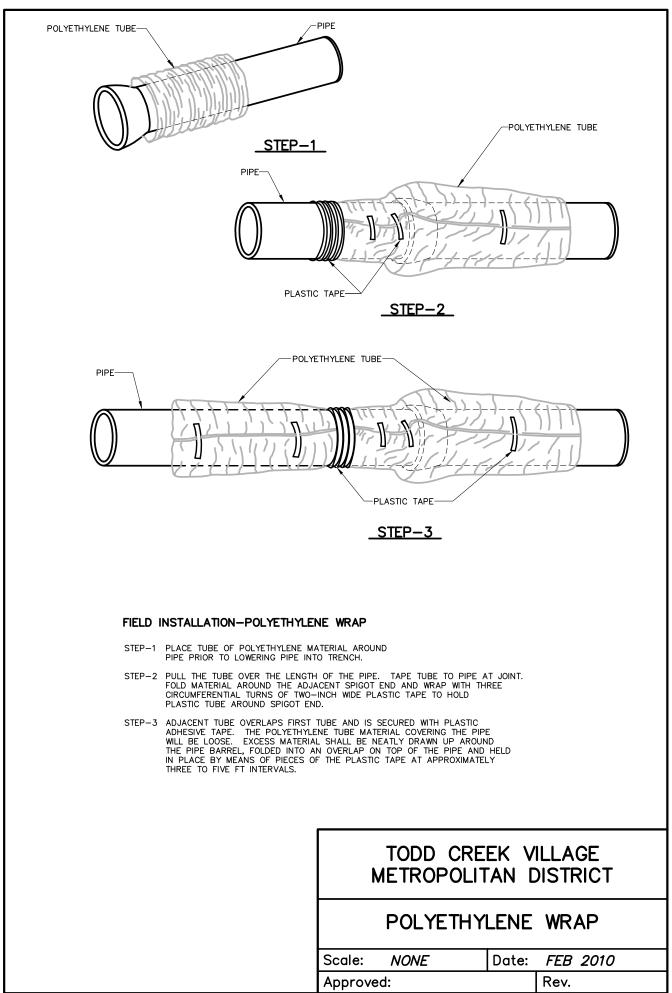


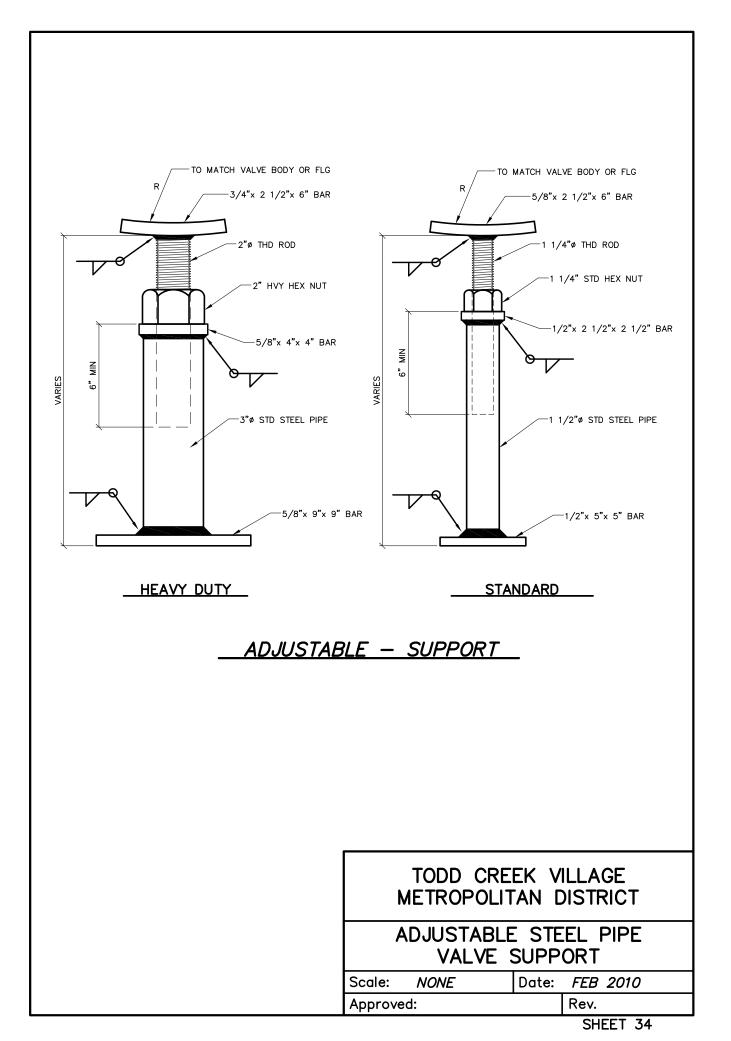


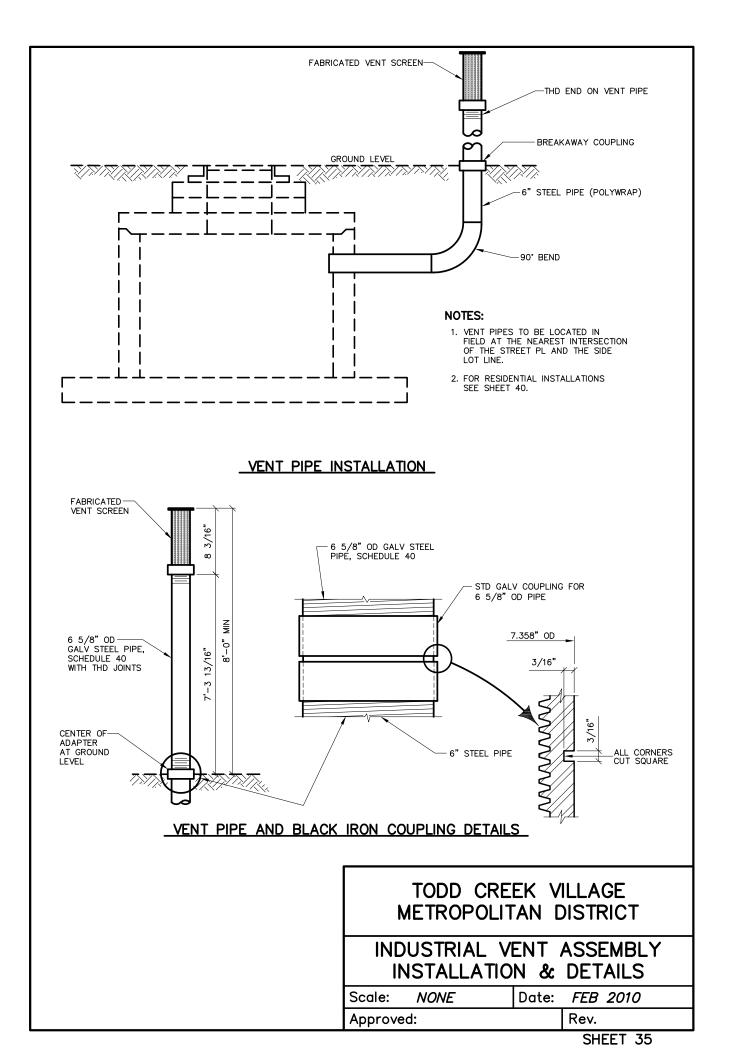


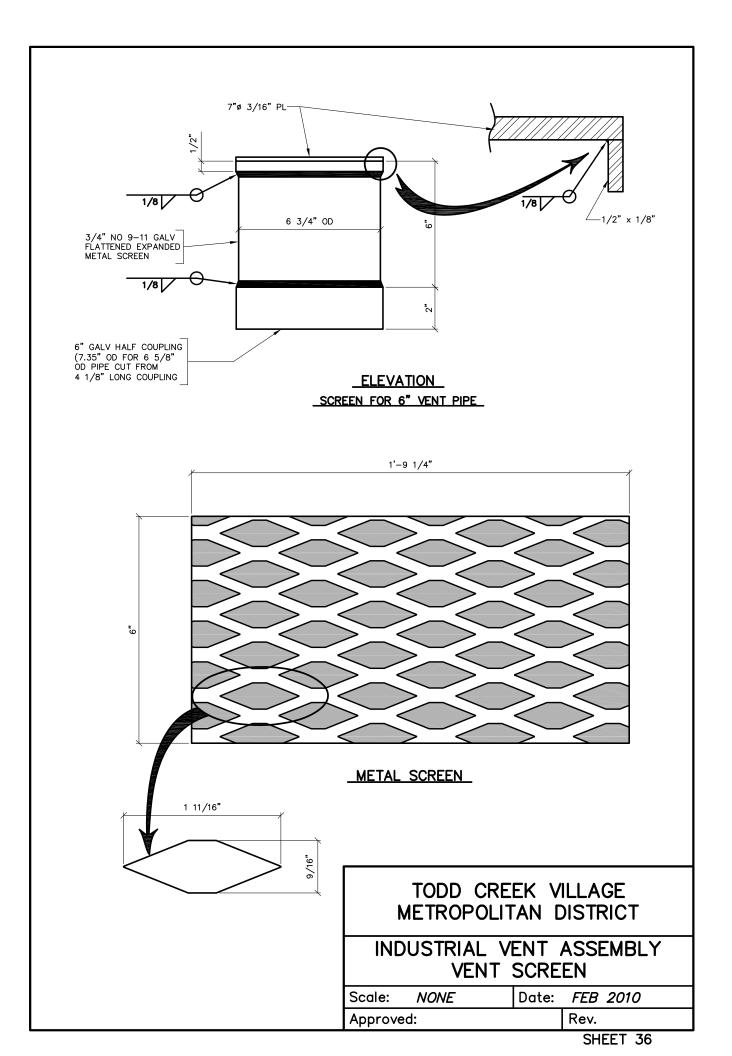


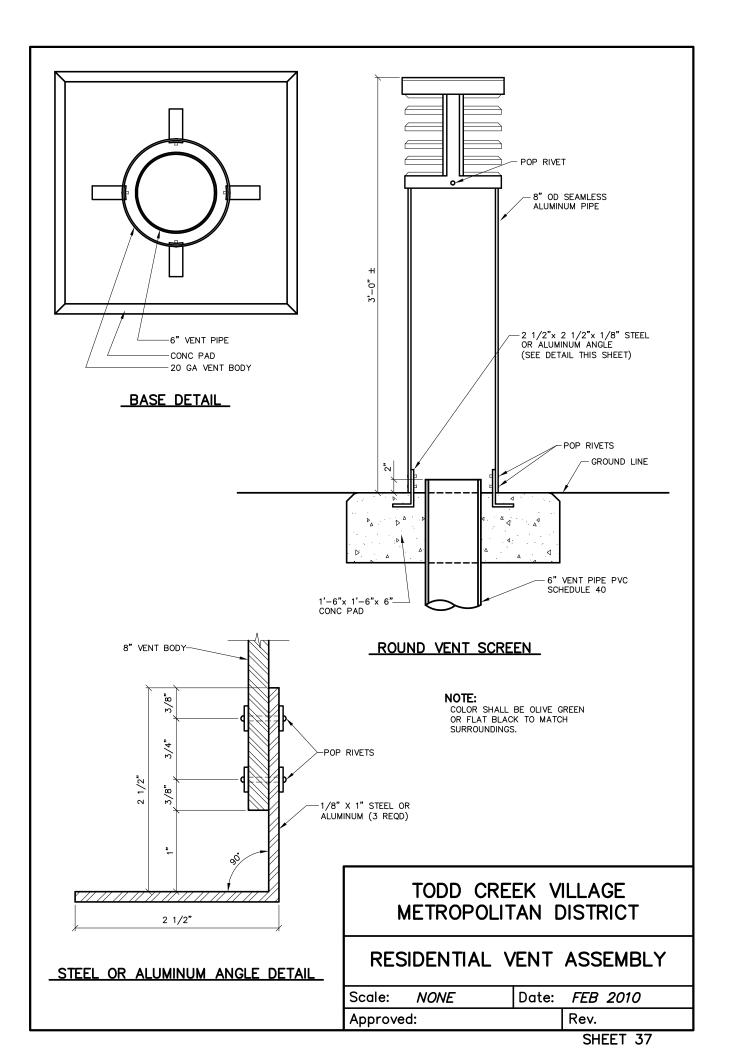


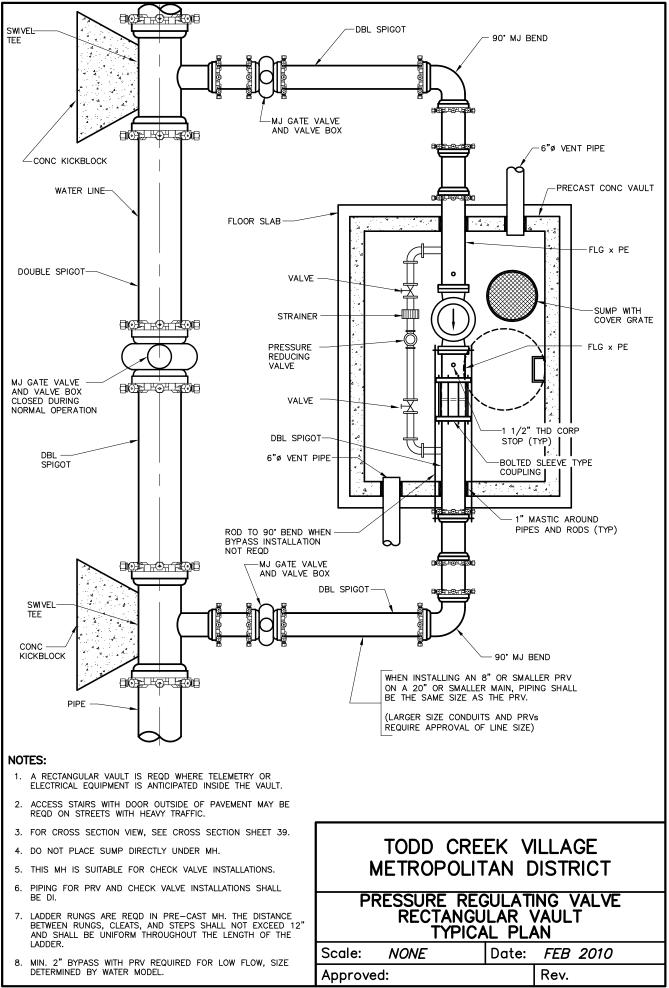


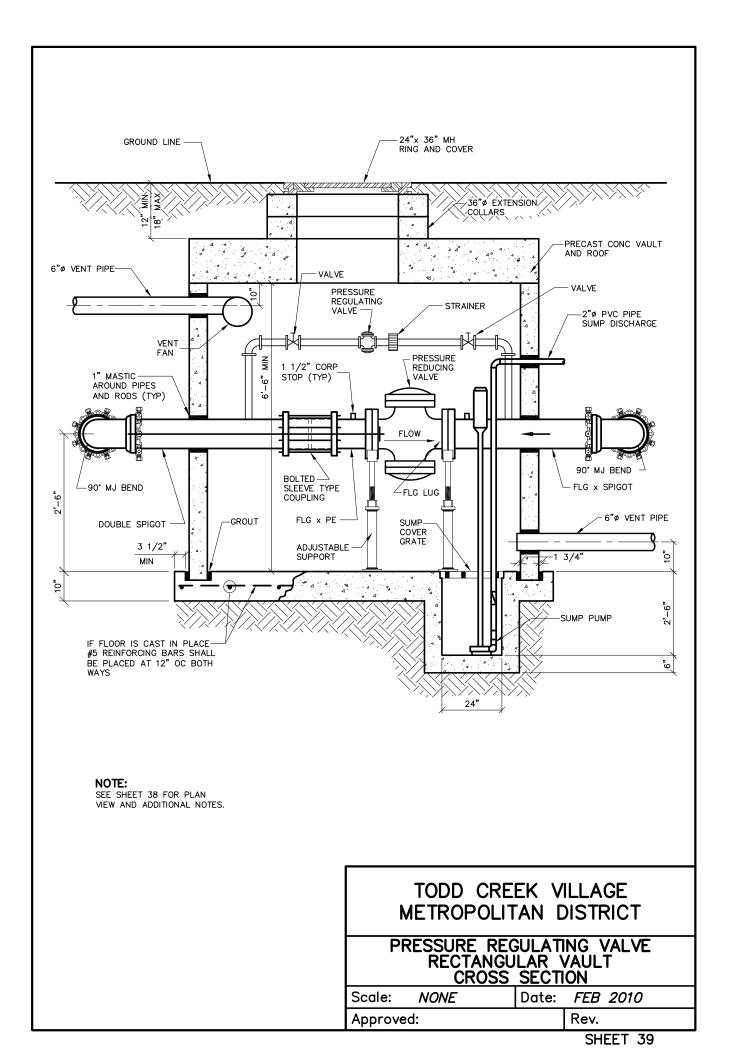








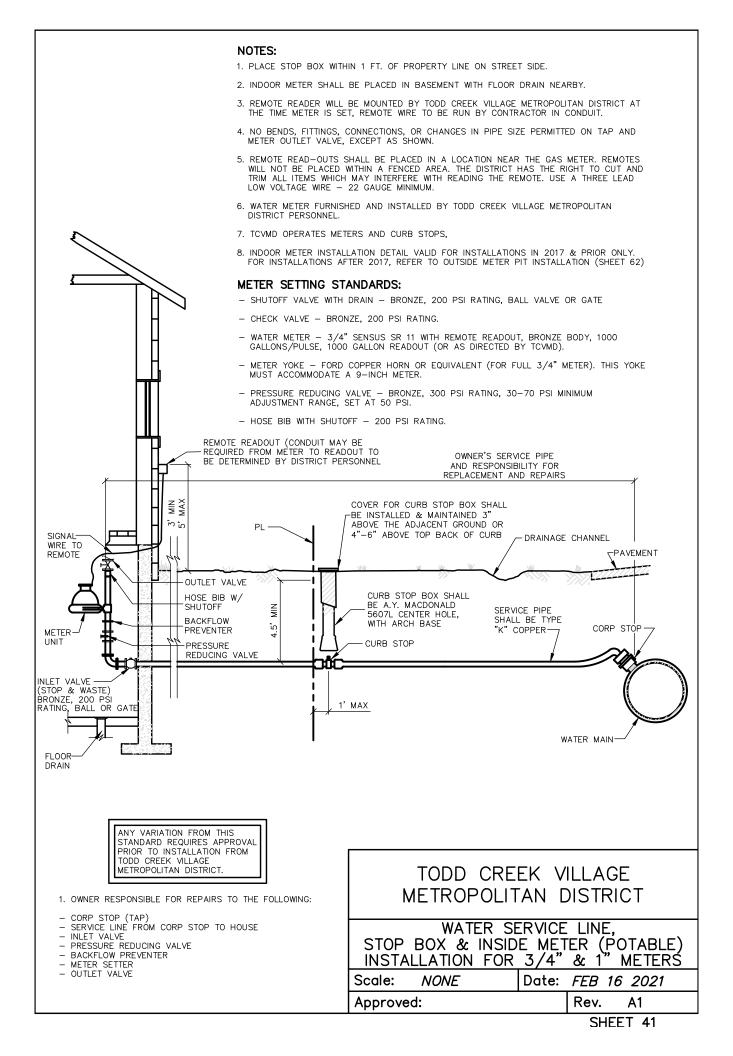


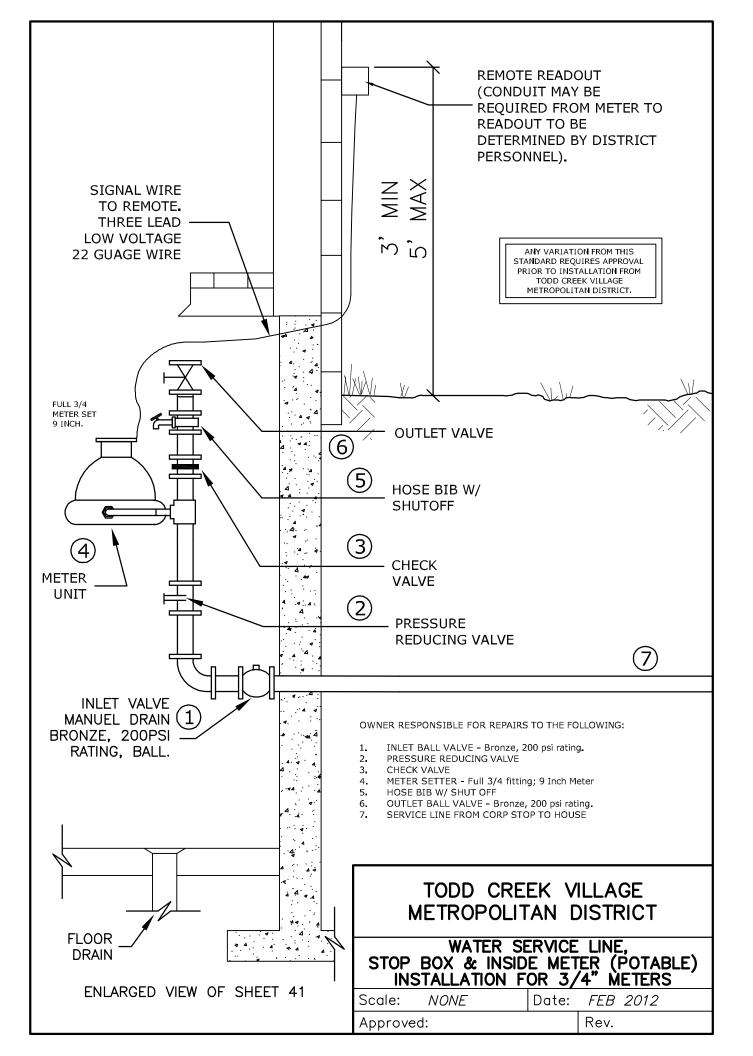


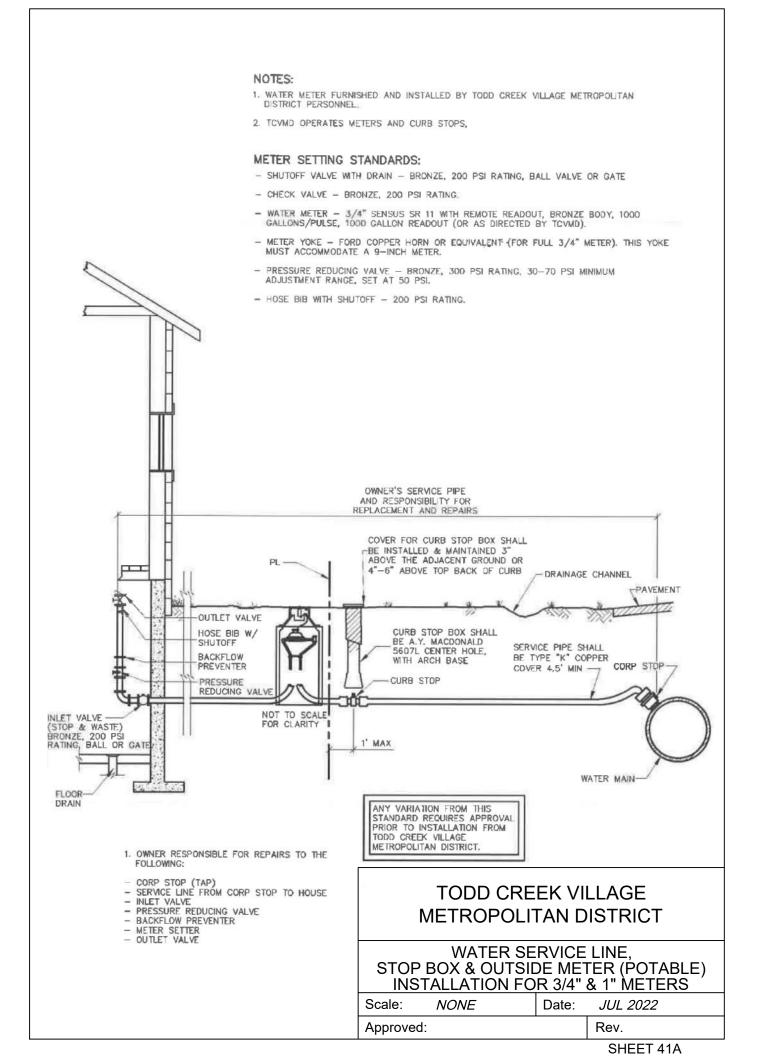
GENERAL METER NOTES

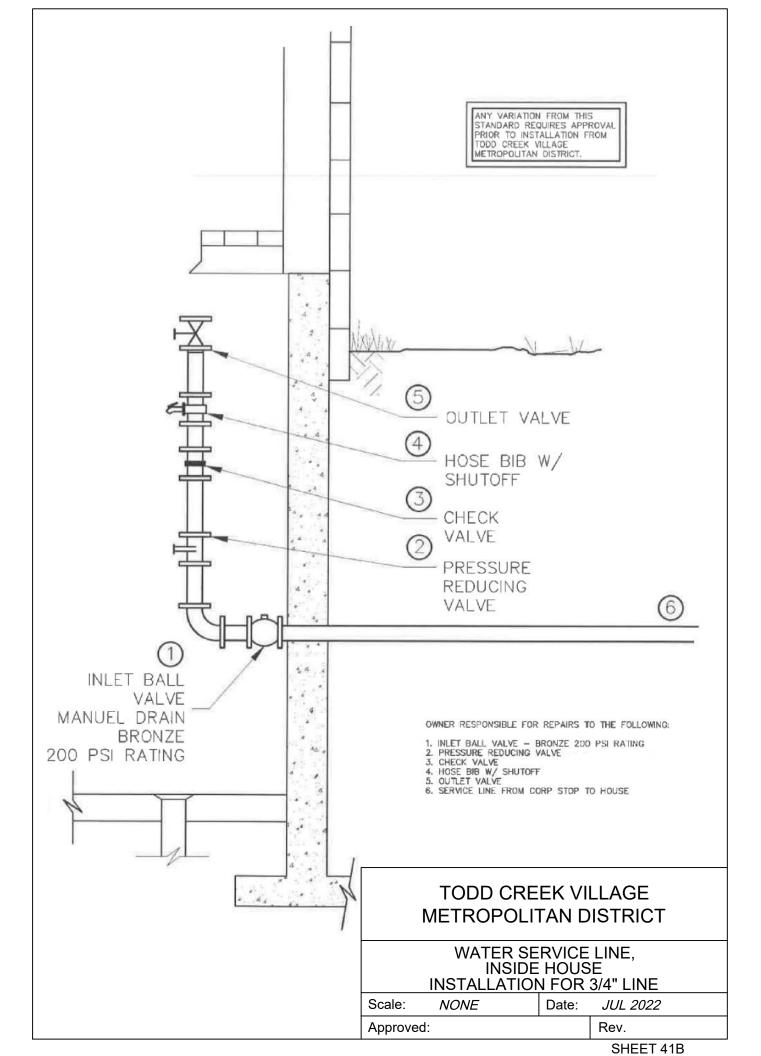
- 1. METER LOCATION SHALL BE APPROVED BY TODD CREEK VILLAGE METROPOLITAN DISTRICT. METER SETTINGS LARGER THAN THREE QUARTER (3/4) INCH SHALL BE APPROVED IN THE FIELD BY THE WATER DEPARTMENT PRIOR TO INSTALLATION OF ANY SERVICE PIPE OR TAP. CALL TO MAKE APPOINTMENT FOR ON-SITE APPROVAL MEETING.
- 2. METERS WILL NOT BE SET/APPROVED UNLESS METER SETTING AND SERVICE LINE ARE IN FULL COMPLIANCE WITH THE ENGINEERING STANDARDS, STANDARD DRAWINGS, AND APPROVED PROJECT DRAWINGS AS APPLICABLE.
- 3. DOMESTIC WATER SERVICES SHALL BE INSTALLED AT A NINETY DEGREE ANGLE FROM WATER MAIN, AND FOR A MINIMUM OF FIVE FEET PAST THE CURB STOP WITH NO BENDS, NO CHANGES IN PIPE SIZE OR PIPE MATERIAL.
- 4. A BYPASS IS REQUIRED ON ALL METERS ONE AND ONE HALF INCH (1-1/2) AND LARGER, EXCEPT FOR IRRIGATION SERVICES. A BYPASS IS NOT PERMITTED ON IRRIGATION SERVICES.
- 5. ALL MATERIALS USED FOR SERVICE PIPES, VALVES, METER SETTINGS AND METERS SHALL CONFORM TO APPLICABLE SECTIONS OF THE ENGINEERING STANDARDS, LATEST EDITION. ALL VARIANCES AND DEVIATIONS MUST BE APPROVED IN THE FIELD BY THE WATER DEPARTMENT PRIOR TO INSTALLATION. CALL TO MAKE APPOINTMENT FOR ON-SITE APPROVAL MEETING.
- 6. ANY METER SETTING OTHER THAN THOSE SPECIFICALLY SHOWN AND DETAILED HEREIN SHALL BE CONSIDERED NON-STANDARD AND SHALL REQUIRE PRIOR APPROVAL BY TODD CREEK VILLAGE METROPOLITAN DISTRICT, BASED ON DRAWINGS SHOWING ENTIRE SERVICE LINE, FITTINGS, METER SETTING, LOCATION OF NEAREST PUBLIC STREET, AND STRUCTURAL DESIGN OF VAULT. CURB STOPS/VALVES MAY NOT BE PLACED IN AREAS WHERE VEHICLES MAY PARK OVER THEM.
- 7. CHECK VALVE DEVICES ARE REQUIRED.
- 8. A FLOOR DRAIN IS REQUIRED WITHIN TEN FEET OF THE METER FOR ALL NEW INSIDE METER SETTINGS. INSIDE SETTINGS SHALL BE INSTALLED ONLY IN BASEMENTS OR IN UTILITY ROOMS IN BUILDINGS WITHOUT BASEMENTS.
- 9. ALL METERS TO BE SET BY TODD CREEK VILLAGE METROPOLITAN DISTRICT.

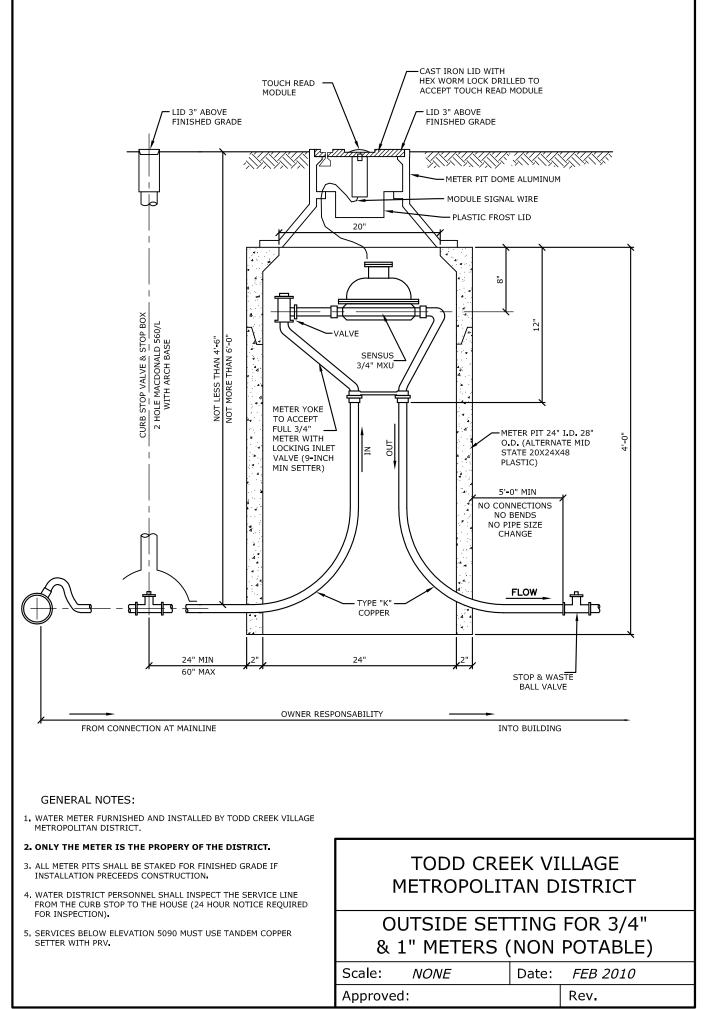
	TODD CREEK VILLAGE METROPOLITAN DISTRICT GENERAL METER NOTES				
	Scale:	NONE	Date:	FEB 2012	
	Approve	ed:		Rev.	
				SHEET 40	











IRRIGATION METER PIT DESCRIPTION

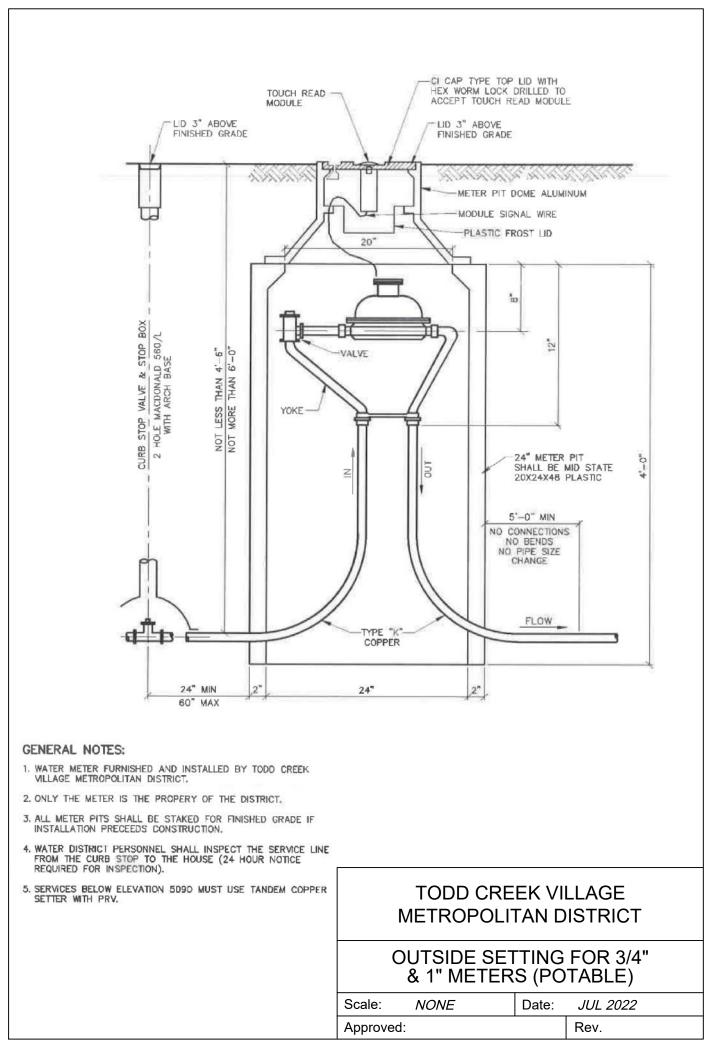
Meter Pit (non-potable):

For 3/4" meters, pits shall have a circular reinforced concrete barrel. Barrel sections shall be of 5,000 psi minimum strength concrete, with a wall thickness of not less than 2 inches. Reinforcing shall not be less than No. 0 circular wire, 6 inches on center. Setting shall consist of a lower bell section with opening at the bottom to allow for entrance/exit of the service line. Barrel sections shall fit together allowing no visible gaps and the top section shall be shaped for placement of the meter box cover. Adjustable grade rings shall be of reinforced concrete or cast iron.

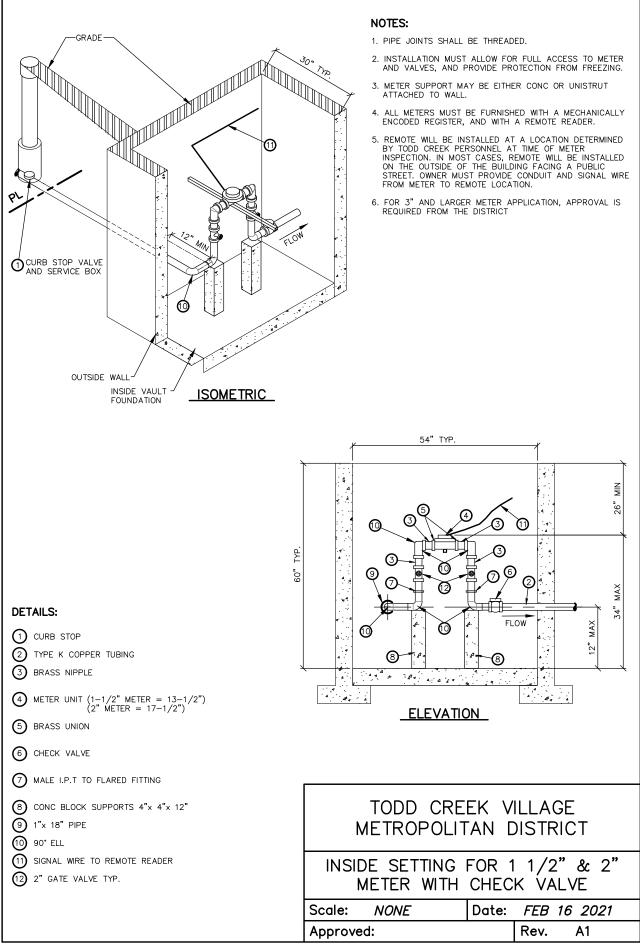
Alternate Meter Pit (not-potable):

Mid States Plastic 20 x 24 x 48, molded with minimum wall thickness of .055" and vertical load test greater then 20,000 lbs. Has white interior and anti-setting flange. Meter box extensions will bring height to grade on off grade extension or uneven terrain.

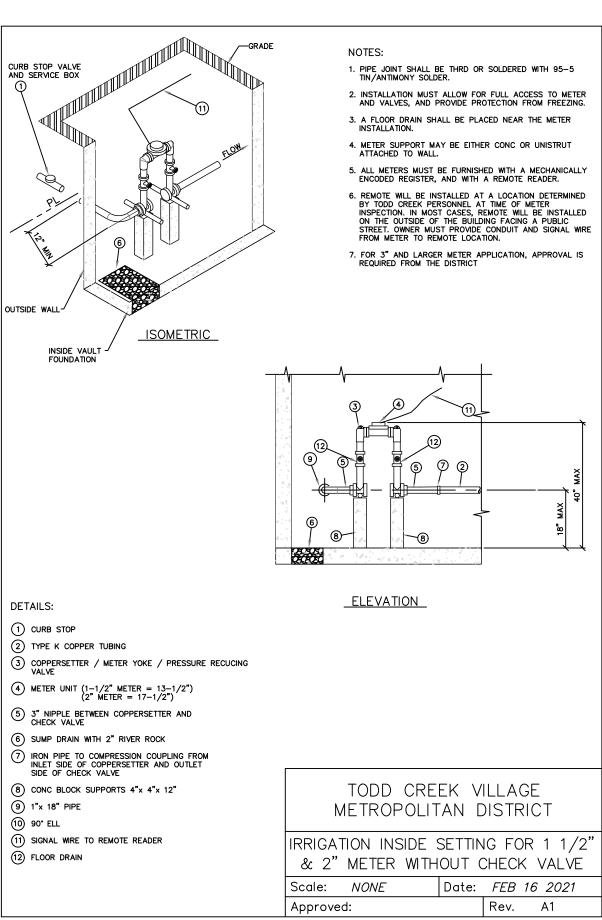
TODD CREEK VILLAGE METROPOLITAN DISTRICT						
OUTSIDE SETTING FOR 3/4" & 1" METERS (NON POTABLE)						
Scale: NONE Date: FEB 2012						
Approved: Rev.						
SHEET 42B						

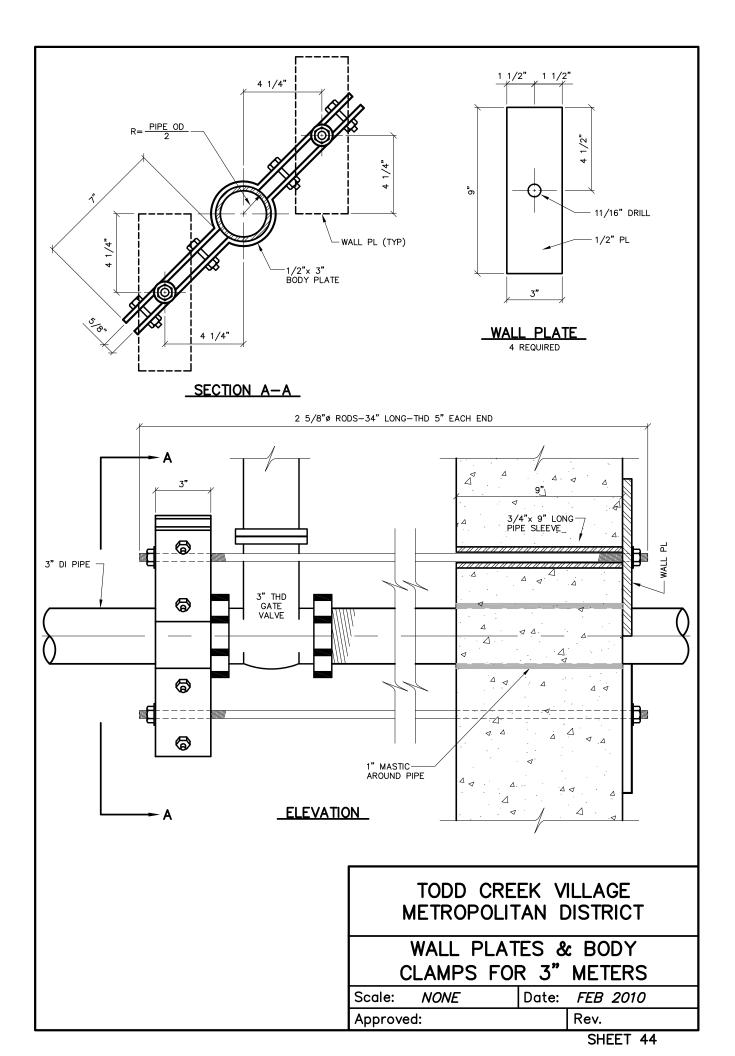


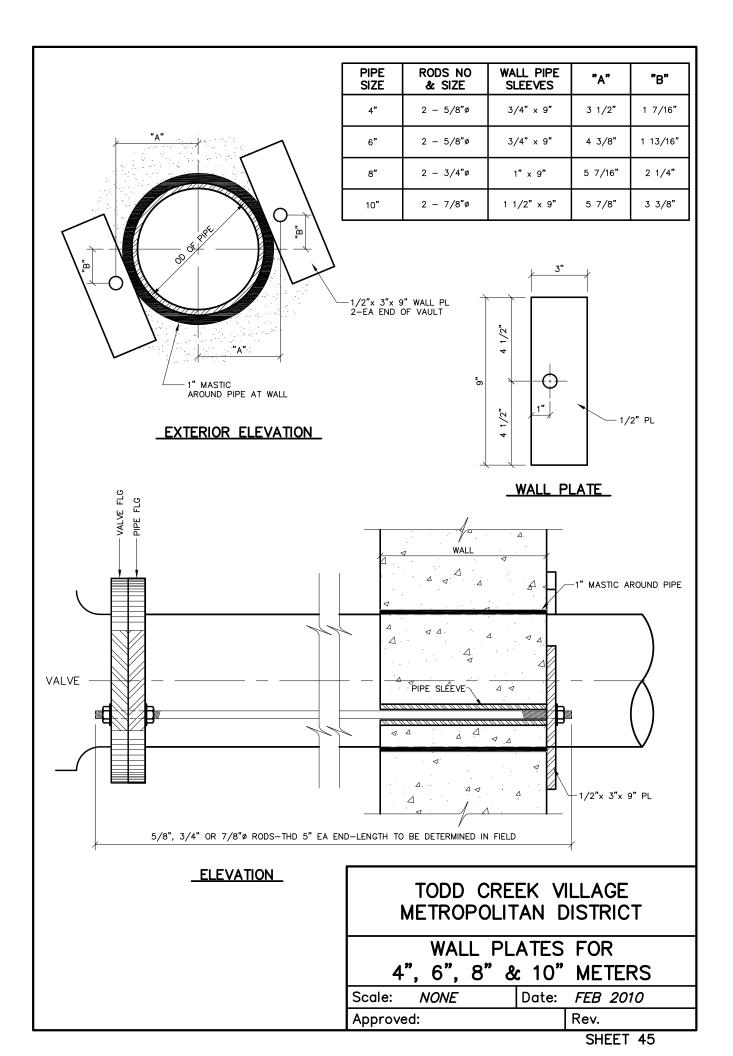
SHEET 42A

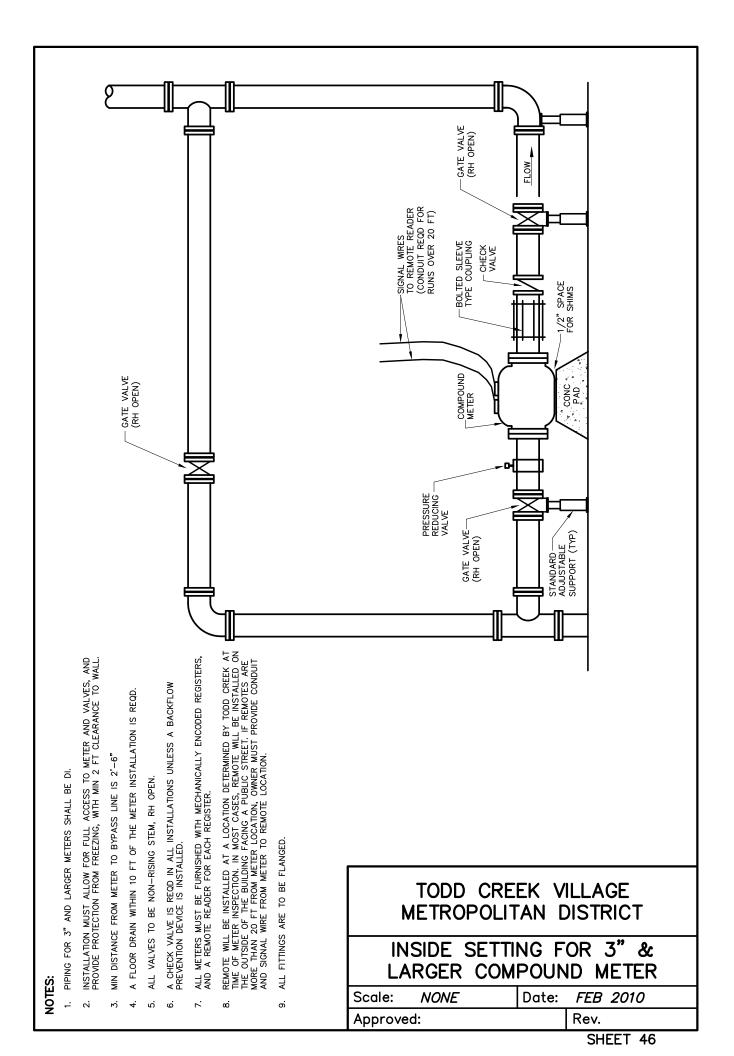


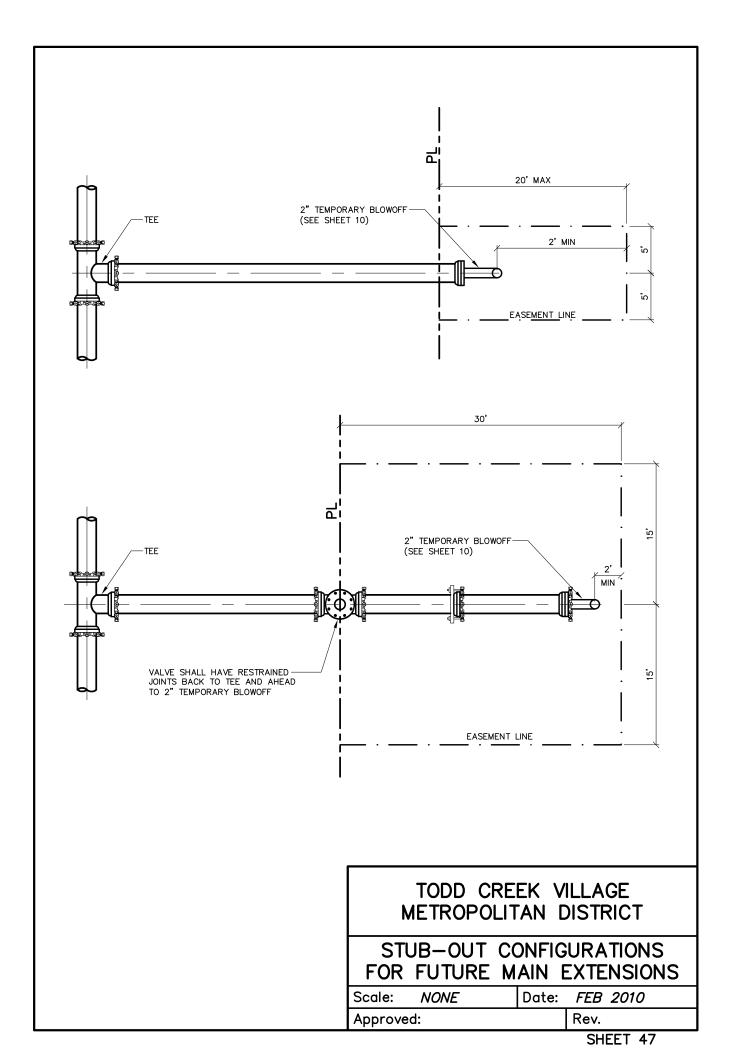
SHEET 43-A



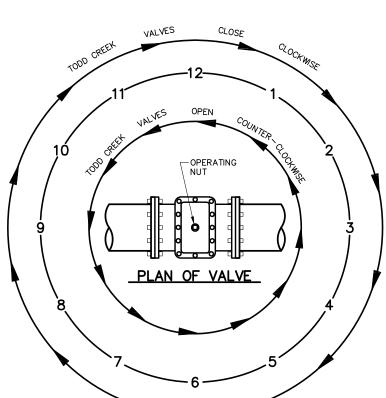


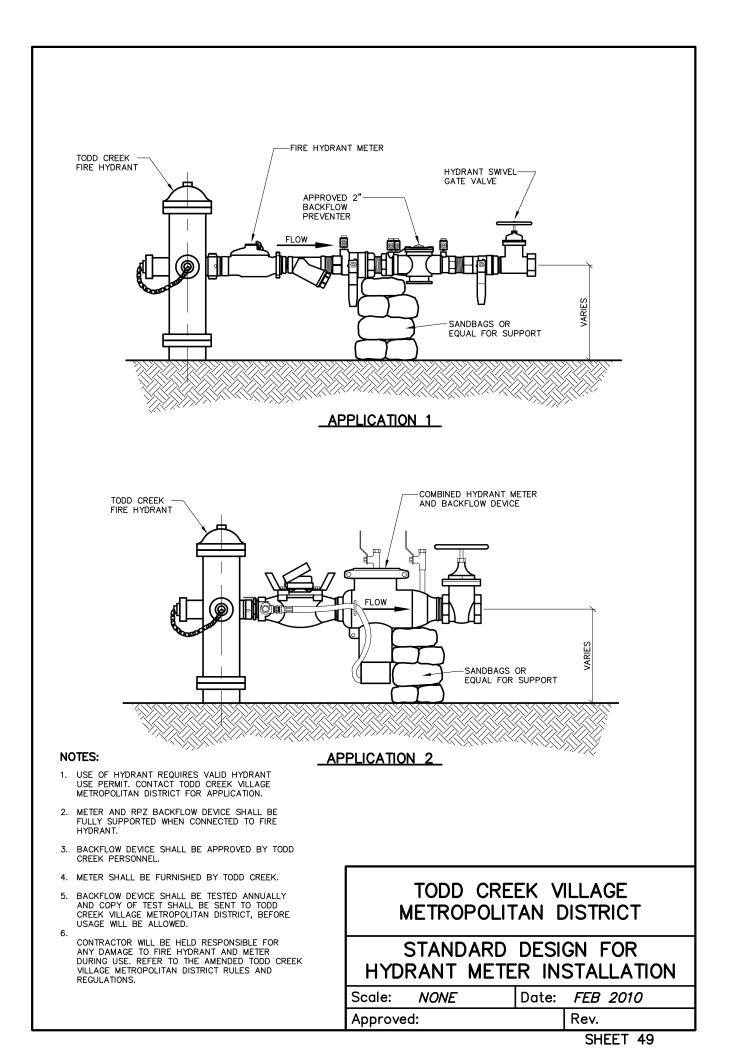


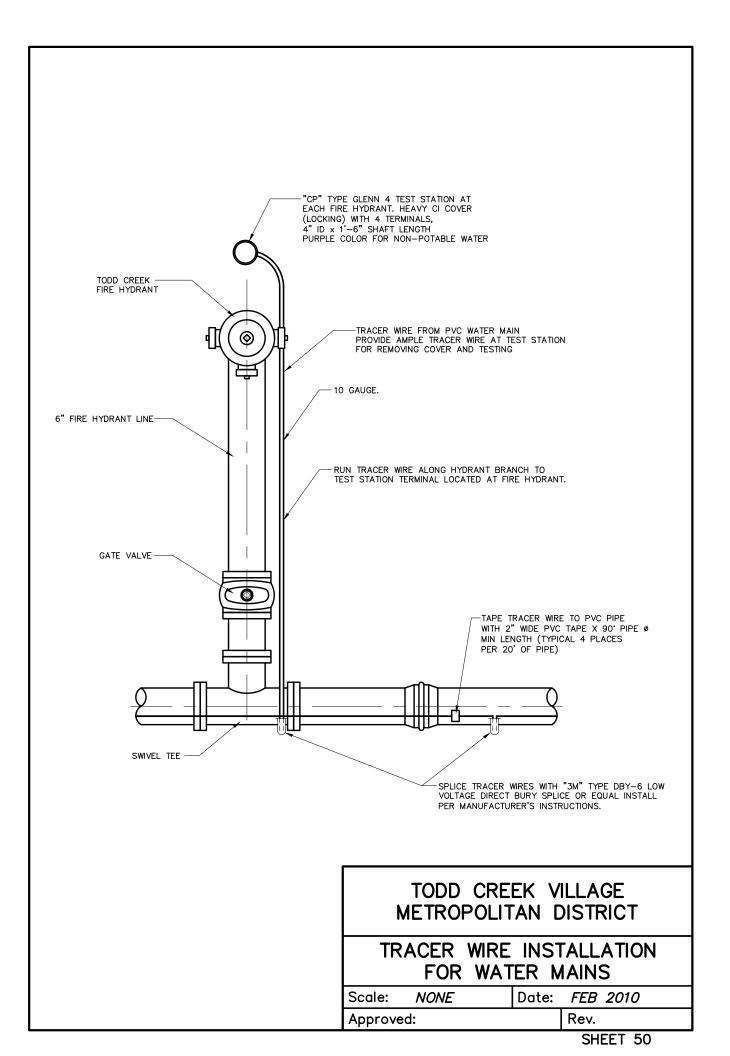


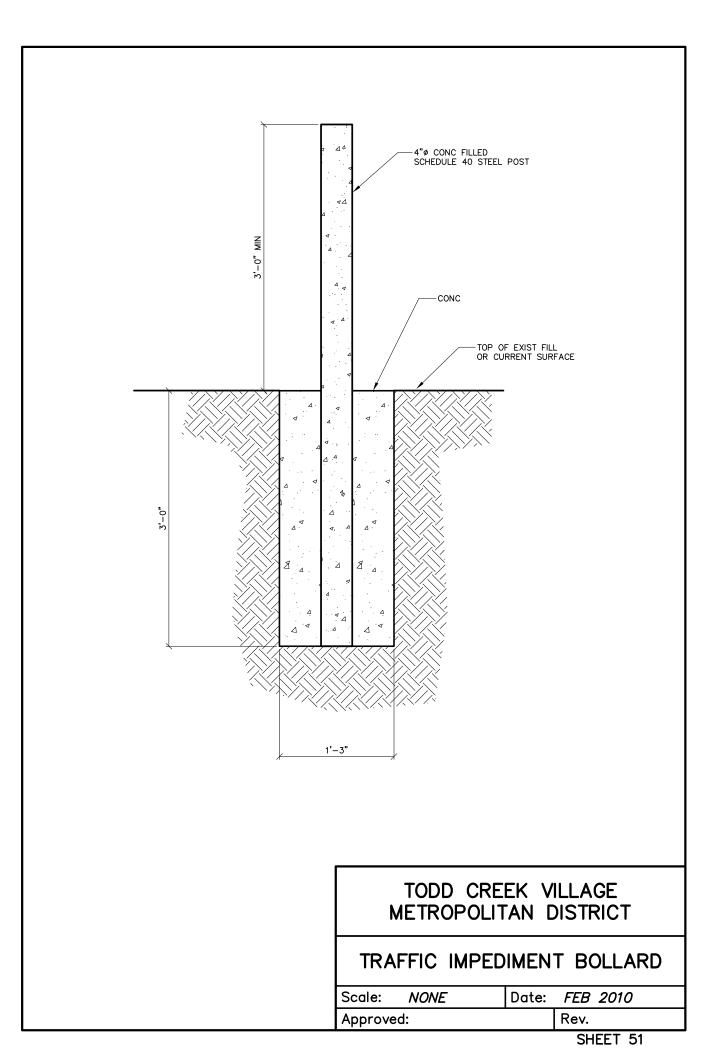


VALVE OPENING &	-65 CLOSING PROCEDUR	E
		EEK VILLAGE ITAN DISTRICT
	VALVE	OPERATION
	Scale: NONE	Date: <i>FEB 2010</i>
	Approved:	Rev.
		SHEET 48



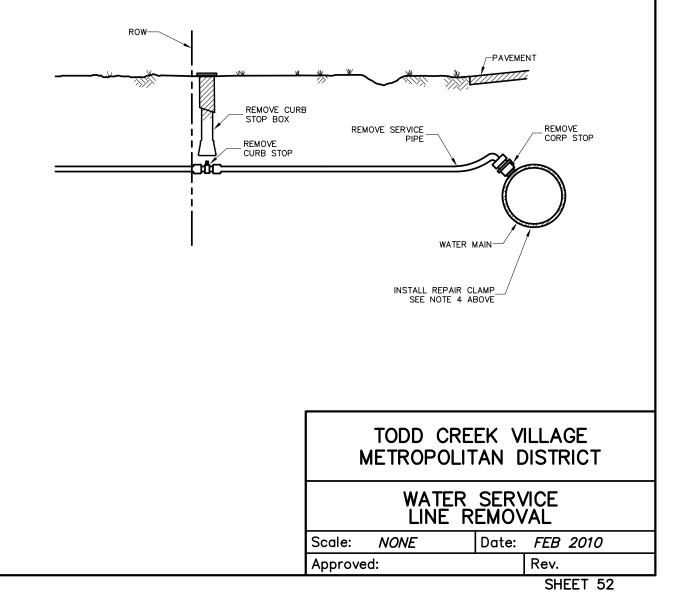


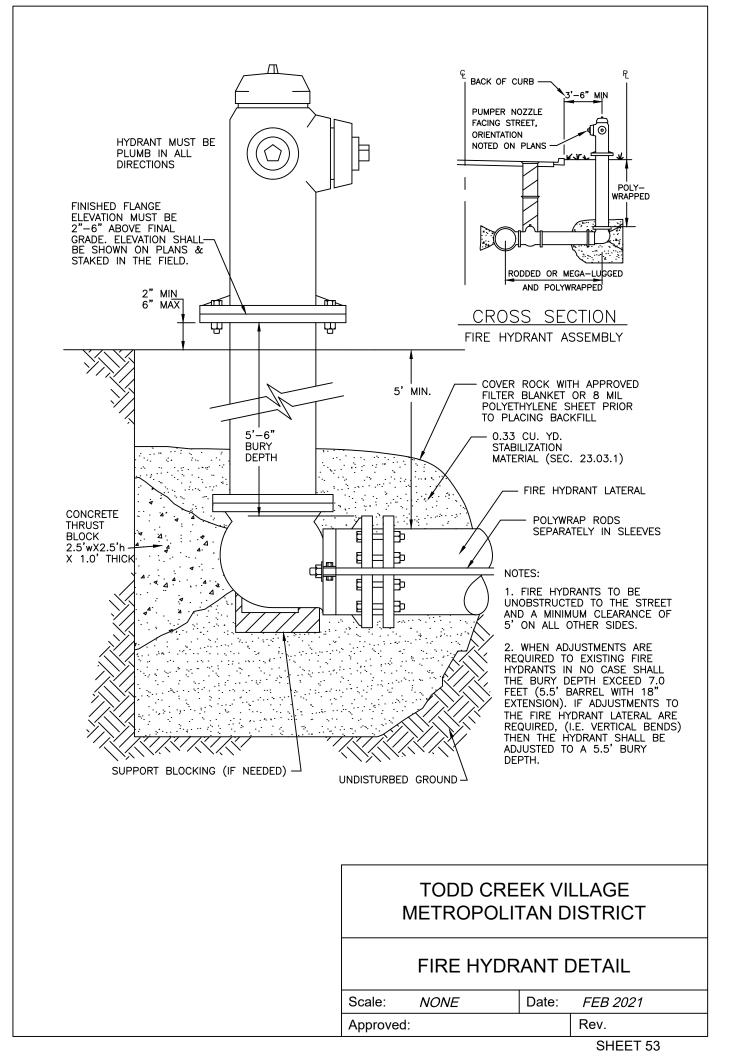




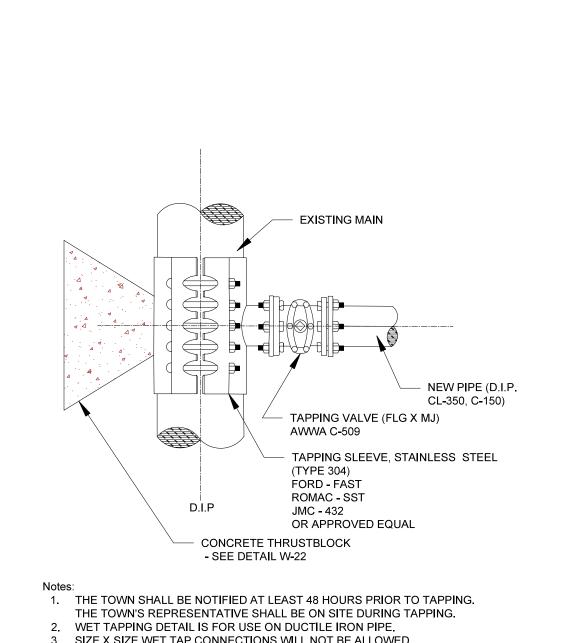
NOTES:

- 1. NOTIFY THE TCVMD 48 HOURS PRIOR TO SERVICE REMOVAL. VALVE OPERATION WILL BE PERFORMED ONLY BY TCVMD.
- 2. REMOVE CURB STOP BOX, CURB STOP, SERVICE LINE, CORP STOP, AND ANY OTHER APPLICABLE ITEMS BETWEEN THE WATER MAIN AND R.O.W.
- 3. TCVMD HAS THE OPTION TO KEEP ANY OR ALL OF THE ITEMS REMOVED. TCVMD WILL DIRECT THE CONTRACTOR WHERE TO DELIVER REMOVED ITEMS.
- FORD TYPE FS1 OR ROMAC TYPE SS1 REPAIR CLAMPS WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 5. THE CONTRACTOR WILL CONTACT TCVMD FOR A FINAL INSPECTION OF ALL REPAIR CLAMPS PRIOR TO BACK-FILLING.
- 6. ADHERE TO ALL COUNTY STANDARDS FOR TRENCH PATCHING AND EROSION CONTROL, ETC.





GV 10'	PAVED AREAS			
5 7/8" MIN DIA. CAP W WORD "WATER" ON COVER				
	NEW PAVEMENT SECTION			
30" SQ. x 6" THICK CONCRETE COLLAR (EXCEPT IN PAVEMENT) W/ #4 REBAR @ 3" FROM OUTSIDE PERIMETER OR USE	6" VALVE BOX WATEROUS AFC 2500 BOX (DUCTILE) OR TYLER 6860 W/ 160 BASE. BASE SHALL NOT REST ON PIPE.			
FIBROUS CONCRETE.				
-TTLLETA	RESILIENT WEDGE OR BALL VALVE PER PLAN			
ACCEPTABLE MARKER POST ABBREVIATIONS				
5° = 45° BEND 90° = 90° BEND 22° = 22 1/2° BEND 11° = 11 1/4° BEND GV = GATE VALVE MH = MANHOLE AR = AIR RELIEF VALVE AV = AIR VACUUM VALVE				
PRV = PRESSURE REDUCING VALVE BV = BLOW-OFF VALVE FM = SEWER FORCE MAIN RAW = RAW WATER LINE	TODD CREEK VILLAGE METROPOLITAN DISTRICT			
WTR = POTABLE WATER LINE	WATER VALVE BOX AND MARKER POST			
	Scale: NONE Date: JUL 2020			
	Approved: Rev. SHEET 54			

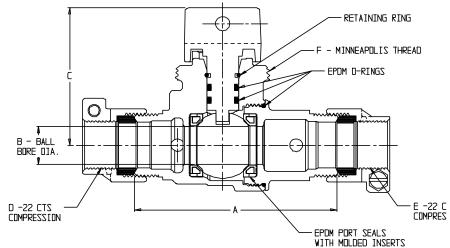


3. SIZE X SIZE WET TAP CONNECTIONS WILL NOT BE ALLOWED.

TODD CREEK VILLAGE METROPOLITAN DISTRICT

WATER WET TAP

Date: NONE Scale: JUL 2020 Approved: Rev.



MODEL	SIZE	A	8	С	D	E	F
76104-22	3/4	3.99	. 75	2.72	3⁄4	3⁄4	1 1/2
76104-22	1 X 3/4 X 3/4	4.26	.75	2.72	t	3⁄4	1 1⁄2
76104-22	1 X 3⁄4 X l	4,48	. 75	2.72	1	1	1 1/2
76104-22	1	4.49	1.00	2.65	1	1	1 1/2
76104-22	1 1/4 X 1 X 1	4.79	1.00	2,65	l 1/4	1	1 1/2
76104-22	1 l/4 X 1 X 1 l/4	4.79	1.00	2.65	1 1/4	1 1/4	1 1/2
76104-22	1 1⁄4	5.33	1.25	2.94	1 1/4	1 1/4	2
76104-22	1 1/2	6.05	1.50	3,39	1 1/2	1 1⁄2	2
76104-22	2	6.99	2.00	3.70	2	2	2

MANUFACTURED IN COMPLIANCE WITH ANSI/AWWA C800 (LATEST REVISION)

BRASS COMPONENTS IN CONTACT WITH POTABLE WATER CONFORM TO ASTM B584, UNS C89833 (LATEST REVISION) AND IDENTIFIED WITH "NL"

- CERTIFIED TO NSF/ANSI 61 AND NSF/ANSI 372
- BRASS COMPONENTS NOT IN CONTACT WITH POTABLE WATER CONFORM TO ASTM B62 AND ASTM B584, UNS C83600 -85-5-55 (LATEST REVISION)
- PTFE COATED BRASS BALL
- RATED FOR 300 PSIG WATER PRESSURE
- BLOW OUT PROOF EPDM PORT SEALS
- END PIECE JOINT SEALED WITH AN EPDM O-RING AND THREAD LOCKER ٠
- INSERT STIFFENERS REQUIRED ON ALL FLEXIBLE PLASTIC CONNECTIONS

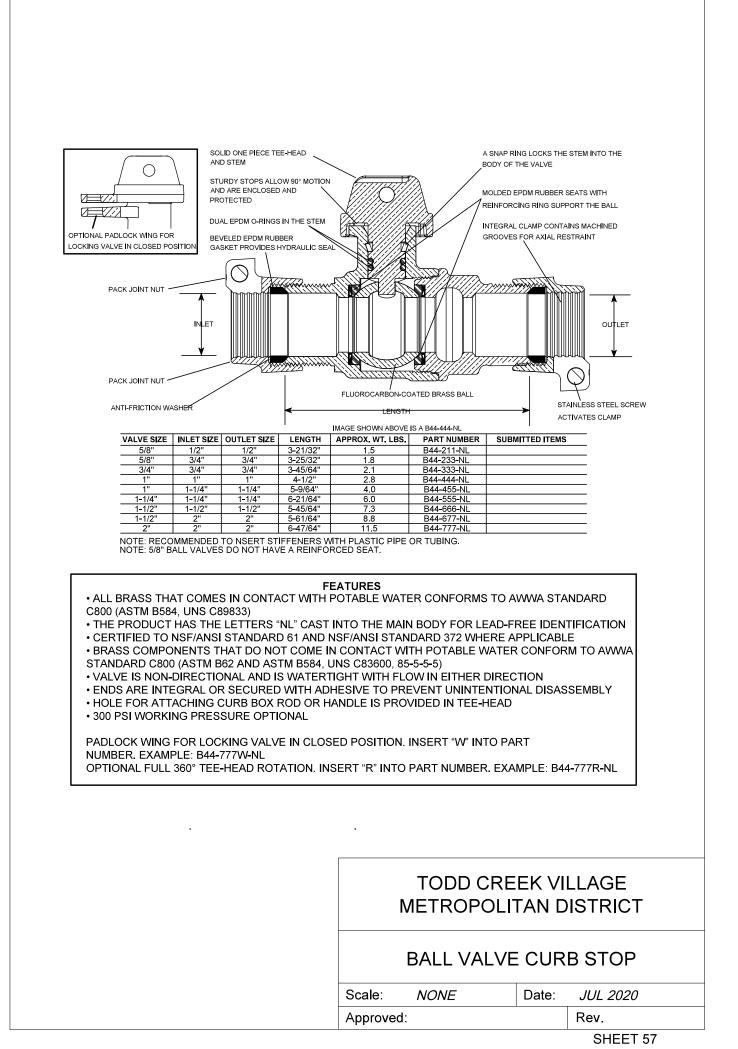
TODD CREEK VILLAGE METROPOLITAN DISTRICT

NL BALL STYLE CURB STOP

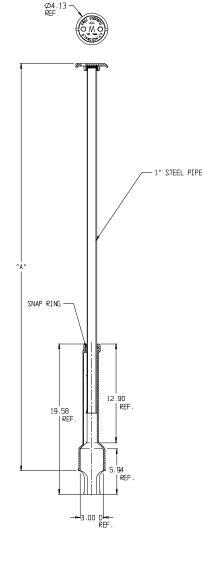
Scale: NONE Date: JUL 2020

Approved:

Rev.



MODEL	"A" RANGE
5601LR 2 1/2	1 1/2' TO 2 1/2'
5601LR 3	2' TO 3'
5601LR 3 1/2	2 1/2' TO 3 1/2'
5601LR 4	3' TO 4'
5601LR 4 1/2	3 1/2' TO 4 1/2'
5601LR 5	4' TO 5'
5601LR 5 1/2	4 1/2' TO 5 1/2'
5601LR 6	5' TD 6'
5601LR 6 1/2	5 1/2' TD 6 1/2'
5601LR 7	6' TO 7'
5601LR 7 1/2	6 1/2' TO 7 1/2'
5601LR 8	7' TO 8'
5601LR 8 1/2	7 1/2' TO 8 1/2'



BRASS COMPONENTS NOT IN CONTACT WITH POTABLE WATER CONFORM TO ASTM B62 AND ASTM B584, UNS C83600-85-5-5-5 (LATEST REVISION) OR ASTM B584, UNS C84400-81-3-7-9 (LATEST REVISION) LID AND BASE MADE OF CAST IRON PER ASTM A48, CLASS 25

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UPPER SECTION MADE OF STEEL PIPE ٠

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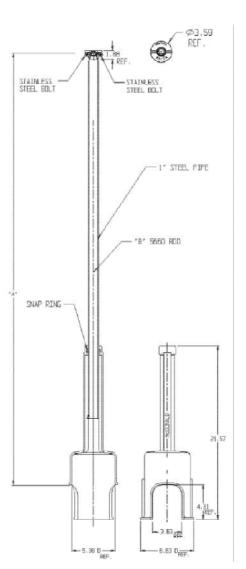
COATED WITH BLACK DIP •

TODD CREEK VILLAGE METROPOLITAN DISTRICT

NON-POTABLE WATER CURB BOX

Scale:	NONE	Date:	JUL 2020
Approved			Rev.

MODEL	"A" RANGE
5602LRTW 2 1/2	1 1/2' 10 2 1/2'
5602LRTW 3	2' TO 3'
5602LRTW 3 1/2	2 1/2′ TO 3 1/2′
5602LRTW 4	3' TO 4'
5602LRTW 4 1/2	3 1/2′ TO 4 1/2′
5602LRTW 5	4' TO 5'
5602LRTW 5 1/2	4 1/2' TO 5 1/2'
5602LRTW 6	5' TO 6'
5602LRTW 6 1/2	5 1/2' TO 6 1/2'
5602LRTW 7	6' TD 7'
5602LRTW 7 1/2	6 1/2' TO 7 1/2'
5602LRTW 8	7′ TO 8′
5602LRTV 8 1/2	7 1/2' TO 8 1/2'



BRASS COMPONENTS NOT IN CONTACT WITH POTABLE WATER CONFORM TO ASTM B62 AND ASTM B584, UNS

C83600 -85-5-5-5 (LATEST REVISION) OR ASTM B584, UNS C84400 -81-3-7-9 (LATEST REVISION) LID AND BASE MADE OF CAST IRON PER ASTM A48, CLASS 25 .

UPPER SECTION MADE OF STEEL PIPE

COATED WITH BLACK DIP

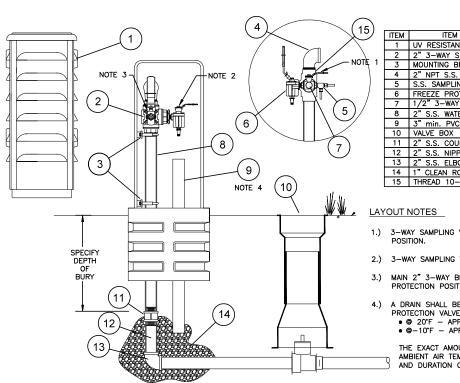
TODD CREEK VILLAGE METROPOLITAN DISTRICT

WATER CURB BOX

Scale: NONE

Approved:

Date: JUL 2020 Rev.



ITEM	ITEM / DESCRIPTION	BY	OTHERS	OPTIONAL
1	UV RESISTANT LOCKABLE LID			
2	2" 3-WAY S.S. BALL VALVE			
3	MOUNTING BRACKET			
4	2" NPT S.S. DISCHARGE			
5	S.S. SAMPLING POINT			
6	FREEZE PROTECTION VALVE			
7	1/2" 3-WAY S.S. BALL VALVE			
8	2" S.S. WATERWAY			
9	3" min. PVC DRAIN		Х	
10	VALVE BOX		Х	
11	2" S.S. COUPLING		Х	х
12	2" S.S. NIPPLE		Х	х
13	2" S.S. ELBOW		Х	х
14	1" CLEAN ROCK		Х	
15	THREAD 10-32 DRAIN HOLE			

- 3-WAY SAMPLING VALVE SHOWN IN THE FREEZE PROTECTION POSITION.
- 3-WAY SAMPLING VALVE SHOWN IN THE SAMPLING POSITION.
- MAIN 2" 3-WAY BLOW-OFF VALVE SHOWN IN THE FREEZE PROTECTION POSITION.
- A DRAIN SHALL BE INSTALLED TO ALLOW THE FREEZE ■ ORANGING VALVE TO DRAIN BELOW THE FROST LINE. ■ @ 20°F – APPROXIMATELY 13 GALLONS PER DAY ■ @-10°F – APPROXIMATELY 42 GALLONS PER DAY

THE EXACT AMOUNT OF WATER DISPENSED DEPENDS ON AMBIENT AIR TEMPERATURE, MAKE UP WATER TEMPERATURE, AND DURATION OF COLD SPELL.

THE #82 FREEZE PROOF SAMPLING STATION SHALL BE A STANDARD 20" BURY, WITH A 2" MIP INLET AND A 2" NPT THREADED DISCHARGE. A %" STAINLESS STEEL T COMPRESSION SHALL BE LOCATED BEFORE THE DISCHARGE TO ALLOW FOR SAMPLING. A 2" STAINLESS STEEL BALL VALVE SHALL CONTROL THE FLOW OF WATER FOR THE MAIN DISCHARGE. THE UNIT SHALL BE FULLY ENCLOSED IN A UV RESISTANT LOCKABLE COVER AND WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION. ALL WATER FLOW MUST BE THRU STAINLESS STEEL AND ALL OPERATIONAL PARTS SHALL BE SERVICABLE FROM ABOVE GROUND WITHOUT ANY DIGGING. A TEMPERATURE ACTIVATED WATER RELIEF VALVE SHALL MAINTAIN A CONTROLLED WATER TEMPERATURE WITHIN THE WATERWAY BY OPENING THE VALVE PORT WHEN THE WATER TEMPERATURE REACHES 43°F AND REMAIN OPEN UNTIL WARMER WATER REACHES THE PORT, THUS CREATING A NON FREEZING ENVIRONMENT. THE FREEZE PROOF CYCLE SHALL REPEAT AS OFTEN AS NECESSARY TO PREVENT FREEZING.

UNIT MODEL # SHALL BE 82 AS MANUFACTURED BY KUPFERLE FOUNDRY COMPANY, ST. LOUIS MO (1-800-231-3990), OR APPROVED EQUAL.

TODD CREEK VILLAGE METROPOLITAN DISTRICT

SAMPLING HYDRANT STATION

Scale: NONE Date: JUL 2020

Approved:

Rev.

