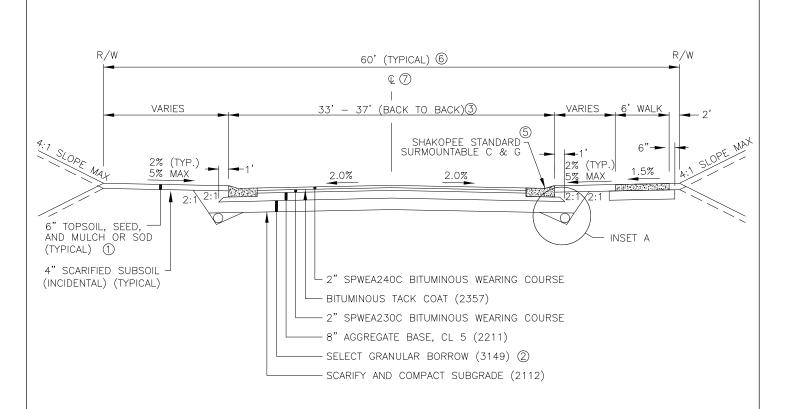
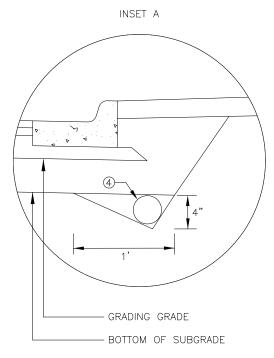
Standard Details Plates

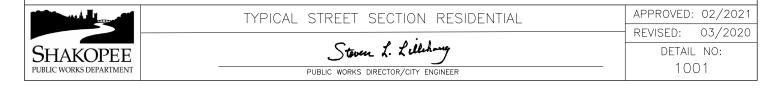
Street Detail Plates	
TYPICAL STREET SECTION RESIDENTIAL	
TYPICAL STREET SECTION COMMERCIAL	
CONCRETE CURB AND GUTTER FOR STREETS	
SANITRAY SEWER AND WATER SERVICE CURB STAMP	1004
Sanitary Sewer Detail Plates	
STANDARD SANITARY MANHOLE	
OUTSIDE DROP SANITARY MANHOLE	
SANITARY SEWER SERVICE	
SANITARY SEWER RISER	
PIPE BEDDING	
ROCK EXCAVATION	
INSULATION	
SANITARY SEWER SERVICE CLEAN OUT	
STRUCTURE MARKER SIGN	
STEEL CASING	2010
Storm Sewer Detail Plates	
STANDARD MANHOLE FOR STORM SEWER	
2' x 3' CATCH BASIN	
CATCH BASIN MANHOLE	
27" CATCH BASIN	
MANHOLE DESIGN 4019/F	
TRASH GUARD FOR END SECTION	
PERFORATED DRAINTILE	
TRANSITION TO B618 CURB AT CATCH BASIN	
POND SKIMMER STRUCTURE	
SUMP DRAIN SERVICE CONNECTION	3010
Misc. Detail Plates	4001
TYPICAL SIDEWALK	
BITUMINOUS TRAIL	
TYPICAL RESIDENTIAL DRIVEWAY WITH SIDEWALK	
TYPICAL COMMERCIAL DRIVEWAY WITH SIDEWALK	
TYPICAL COMMERCIAL DRIVEWAYTYPICAL COMMERCIAL DRIVEWAY WITH SIDEWALK	
TYPICAL COMMERCIAL DRIVEWAY WITH SIDEWALKTYPICAL BARRICADE	
MAILBOX	
TRAFFIC SIGN INSTALLATION	4000 4000
	4009
Small Utility Detail Plates	5000
JOINT TRENCH FOR PRIVATE UTILITIES (GAS ROADSIDE)	
JOINT TRENCH FOR PRIVATE UTILITIES (GAS HOUSE SIDE)	
IKKUTA LUUN CUNUULL AINIJ SIKPPI LIUHI CUNUULI	7011

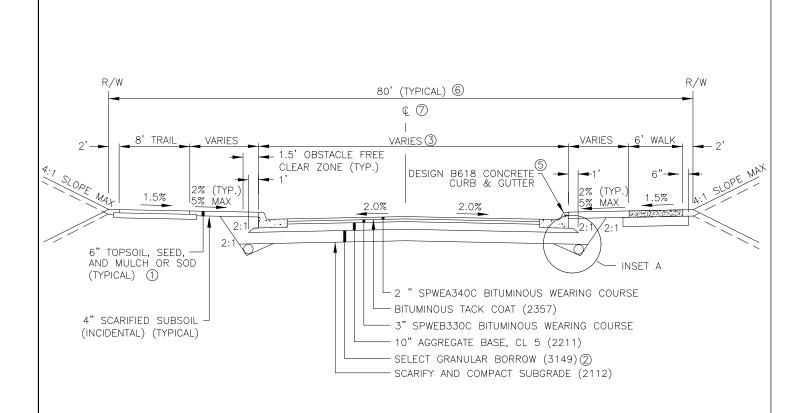


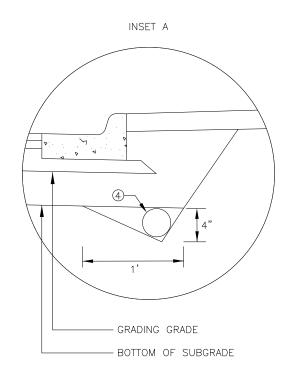


- 1 SOD TO BE PLACED BEHIND CURB (36" MINIMUM).
- ② THE STANDARD SELECT GRANULAR SECTION IS 24". THE USE OF GEOTEXTILE FABRIC AND ADJUSTMENTS TO THE SELECT GRANULAR SECTION WILL BE CONSIDERED BY THE CITY ENGINEER, BASED ON EXISTING SUBSURFACE CONDITIONS AND THE PRESENCE AND ADEQUACY OF ON SITE GRANULAR SOILS THAT MEET THE SELECT GRANULAR SPECIFICATION.
- (3) STREET WIDTH AND RIGHT-OF-WAY WIDTH TO BE DETERMINED BY THE CITY ENGINEER. STREETS MUST BE PAVED IN NO MORE THAN TWO PASSES.
- 4" PERFORATED PIPE WITH PROTECTIVE WRAP. INSTALL WHERE CLAY SOILS ARE ENCOUNTERED IN THE ROADWAY SUBGRADE AS DIRECTED BY THE CITY ENGINEER.
- (5) B618 CONCRETE CURB AND GUTTER IS REQUIRED AT ALL CURB RADII AND CATCH BASINS.
- (6) RIGHT-OF-WAY WIDTH TO BE DETERMINED AND COORDINATED WITH CITY ENGINEER (SEE COMPREHENSIVE PLAN).
- (7) CENTERLINE MUST BE CENTERED WITHIN RIGHT-OF-WAY.

 THE PAVEMENT SECTION SHOWN IS A MINIMUM DESIGN. A BITUMINOUS PAVEMENT DESIGN MUST BE PERFORMED AND INCREASED ADJUSTMENTS WILL BE MADE BY THE CITY ENGINEER BASED ON THE TYPICAL DESIGN PARAMETERS AND OTHER CURRENT GUIDANCE (E.G. MNDOT RECOMMENDED PAVEMENT DESIGN STANDARDS).







- (1) SOD TO BE PLACED BEHIND CURB (36" MINIMUM).
- ② THE STANDARD SELECT GRANULAR SECTION IS 24". THE USE OF GEOTEXTILE FABRIC AND ADJUSTMENTS TO THE SELECT GRANULAR SECTION WILL BE CONSIDERED BY THE CITY ENGINEER, BASED ON EXISTING SUBSURFACE CONDITIONS AND THE PRESENCE AND ADEQUACY OF ON SITE GRANULAR SOILS THAT MEET THE SELECT GRANULAR SPECIFICATION.
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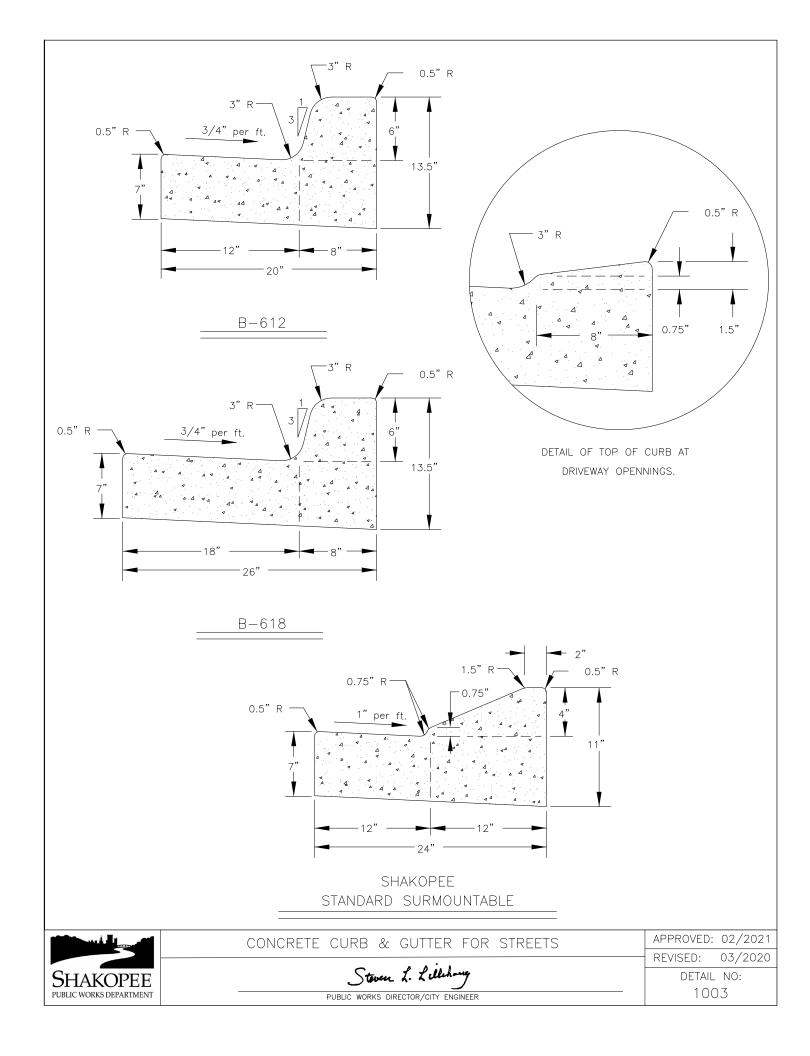
TYPICAL STREET SECTION COMMERCIAL

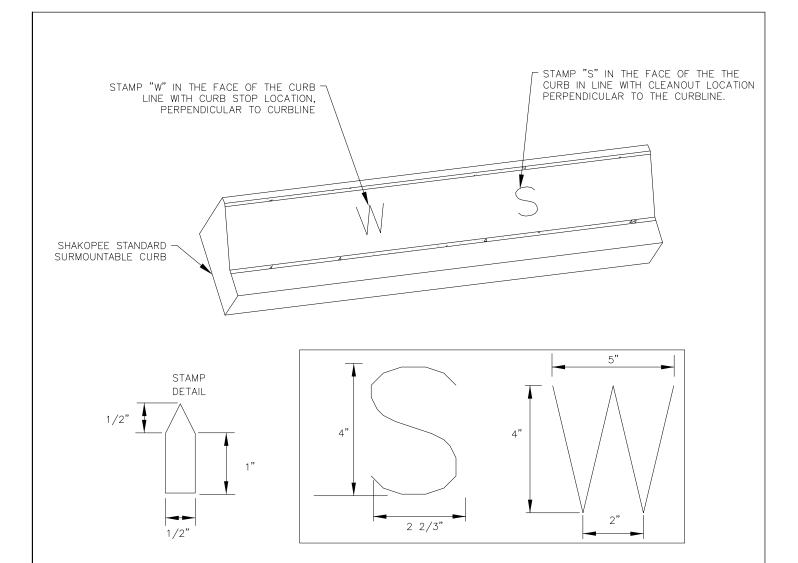
APPROVED: 02/2021

REVISED: 03/2020

DETAIL NO:

1002

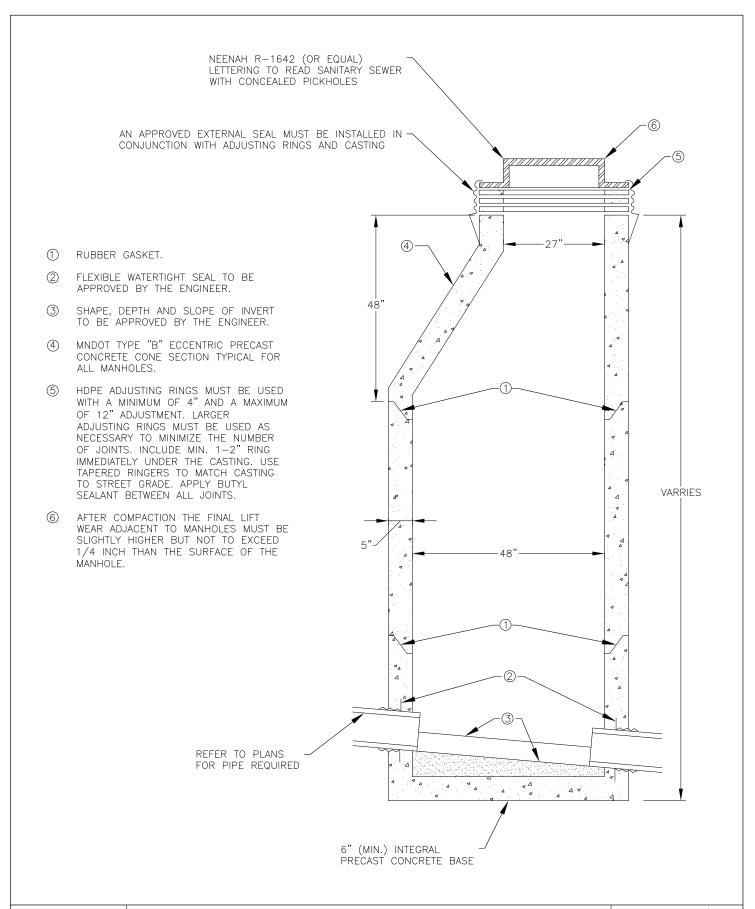




- 1. ALL NEW AND EXISTING WATER AND SEWER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOW. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDER INCIDENTAL TO THE PRICE OF CURB.

 2. W'S AND S'S NOT PLACED BY SPECIFIED STAMP WILL NOT BE ACCEPTED AND THAT SECTION OF CURB MUST BE REMOVED AND REPLACED

	SANITARY SEWER AND WATER SERVICE CURB STAMP	APPROVED: 02/2021
		REVISED: 03/2020
SHAKOPEE	Steven L. Lellehong	DETAIL NO:
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	1004





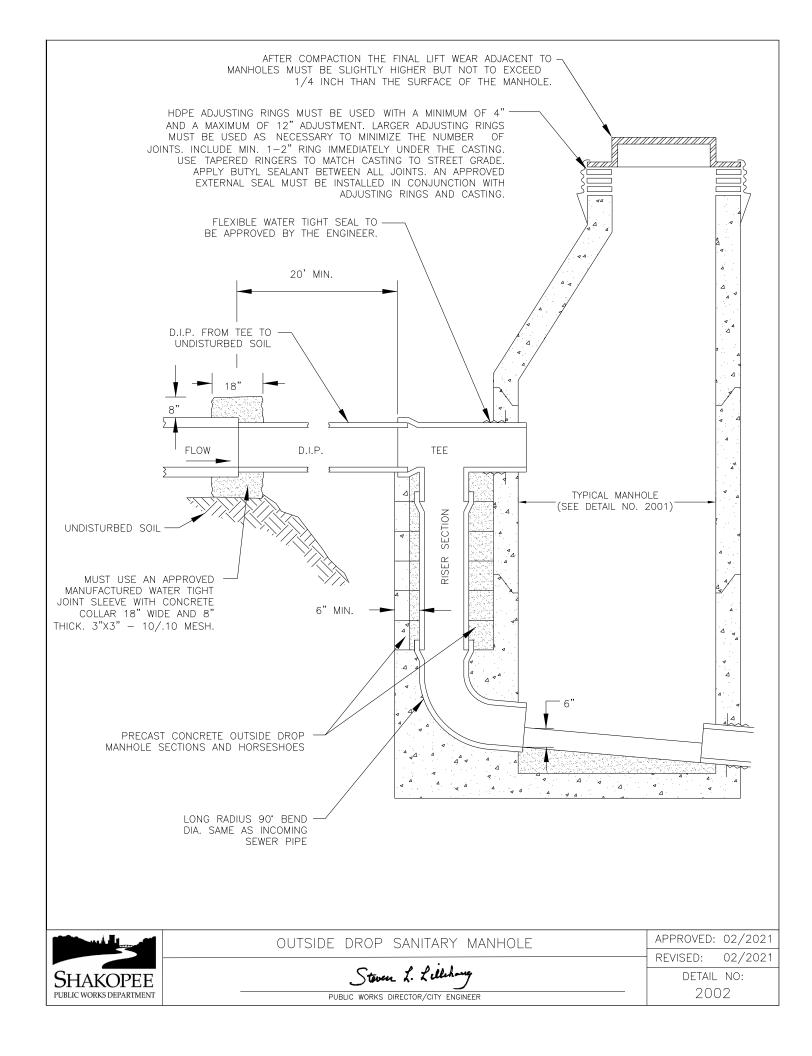
STANDARD SANITARY MANHOLE

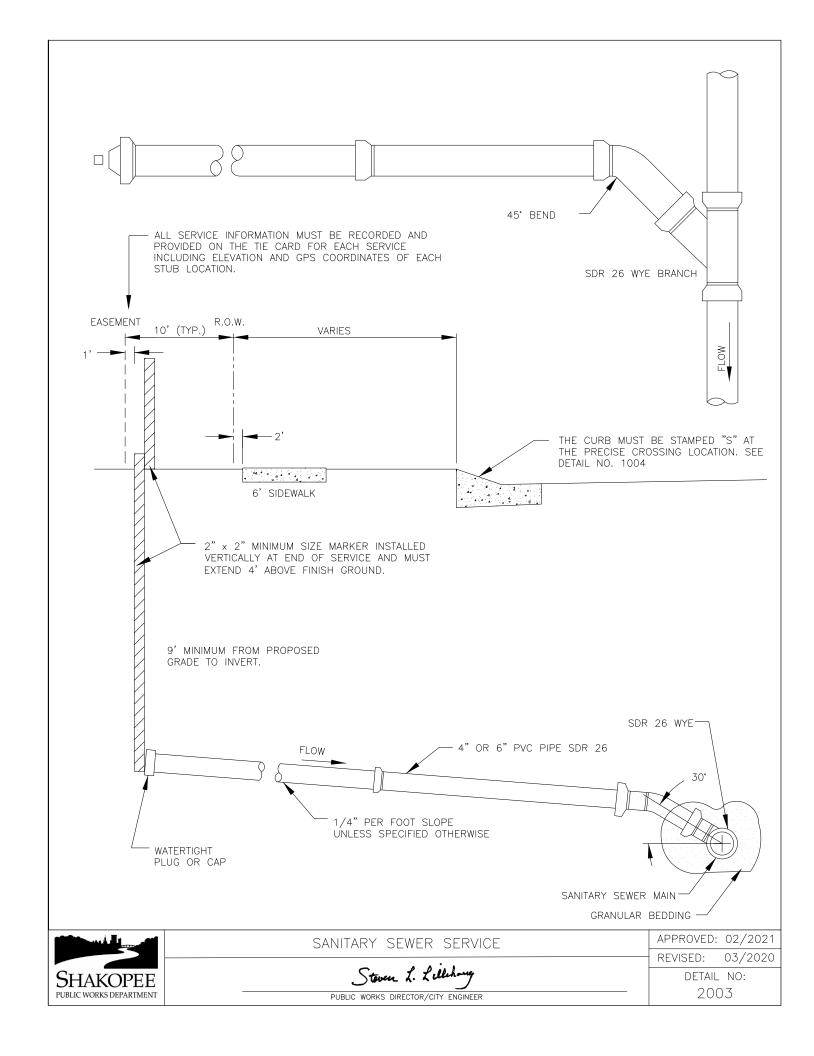
Steven L. Lillehang

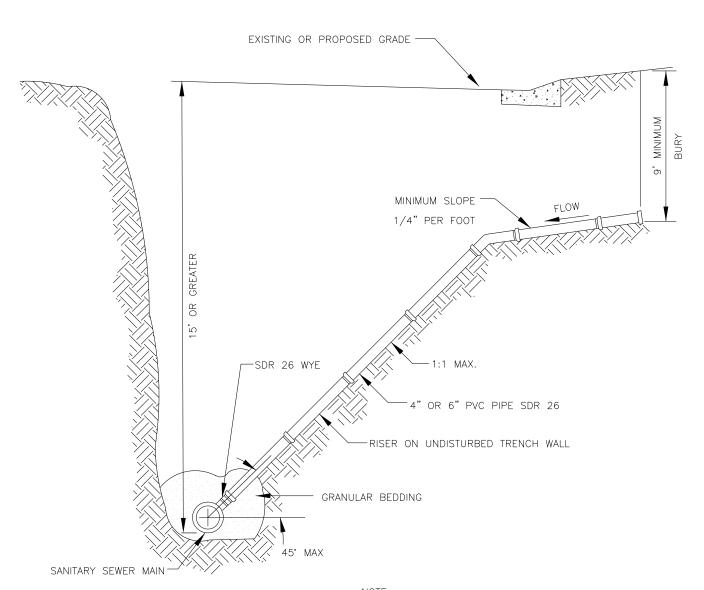
PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 02/2021 REVISED: 02/2021

DETAIL NO: 2001

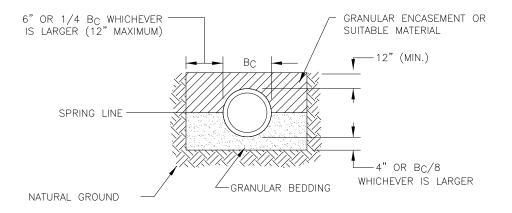






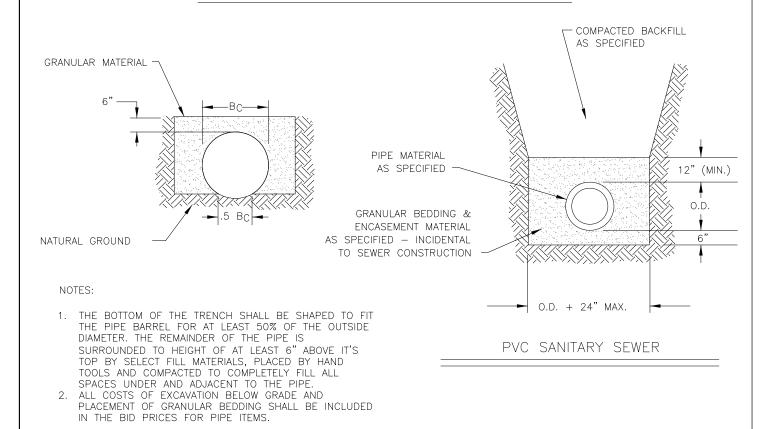
- 1. SEWER RISERS SHALL BE USED FOR SEWERS AT A DEPTH OF 15' OR GREATER
- RISER INFORMATION MUST BE RECORDED AND PROVIDED ON THE TIE CARD.
- 3. WHEN THE SEWER MAIN IS DEEPER THAN 20' USE ROMAC COUPLER AT CONNECTION TO SANITARY SEWER MAIN.
- 4. STANDARD SEWER SERVICE REQUIREMENTS MUST ALSO BE MET PER DETAIL NO. 2003

	SANITARY SEWER RISER	APPROVED:	02/2021
		REVISED:	03/2020
SHAKOPEE	Steven L. Lellehang	DETAIL	. NO:
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	200)4



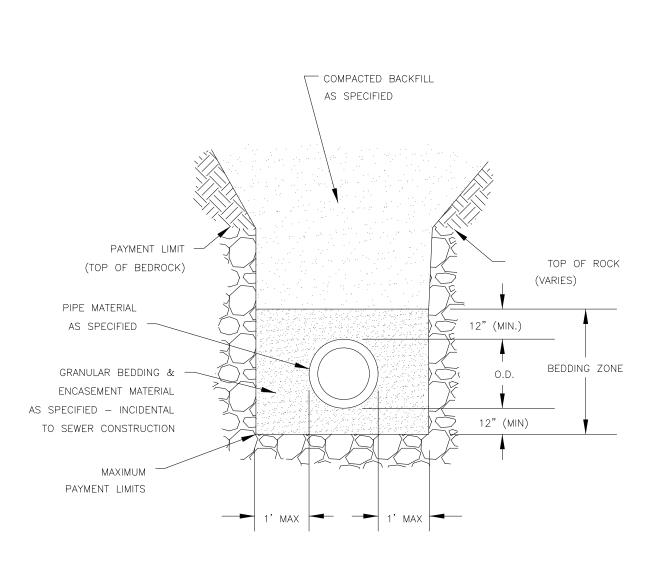
 ALL COSTS OF EXCAVATION BELOW GRADE AND PLACEMENT OF GRANULAR BEDDING SHALL BE INCLUDED IN THE BID PRICES FOR PIPE ITEMS UNLESS SPECIFIC BID QUANTITIES ARE LISTED FOR GRANULAR BEDDING.

CLASS "B" PIPE BEDDING (RCP STORM PIPE)

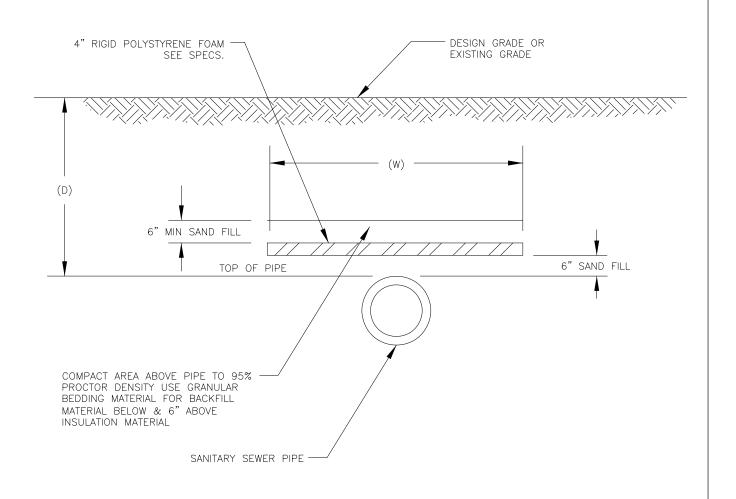


CLASS "C" PIPE BEDDING (RCP STORM PIPE)





	ROCK EXCAVATION	APPROVED:	02/2021
	- A A : 1	REVISED:	03/2020
SHAKOPEE	Steven L. Lillehang	DETAIL	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	200)6

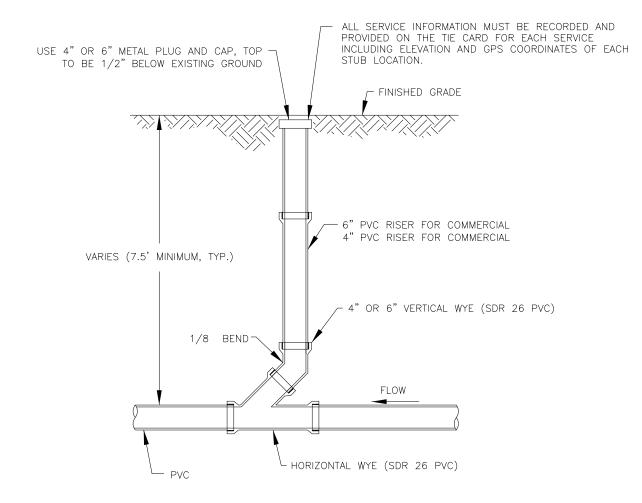


(D)	(W)
DEPTH OF PIPE	WIDTH OF INSULATION
2'	12'
3'	10'
4'	8'
5'	6'
6'	4'
7'	4'

- THIS DETAIL IS NOT FOR NEW CONSTRUCTION. THIS IS FOR RETROFIT CONDITIONS BASED ON EXISTING SHALLOW DEPTH UTILITY CONDITIONS. IT SHALL NOT BE USED WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

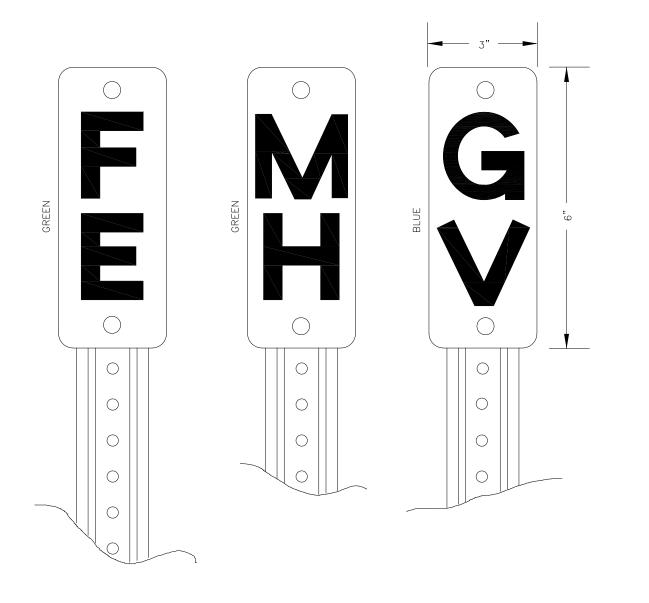
 ALL INSULATION SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 35 PSI.

	INSULATION	APPROVED: 02/20)21
		REVISED: 03/20)20
SHAKOPEE	Steven L. Lellehong	DETAIL NO:	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	2007	



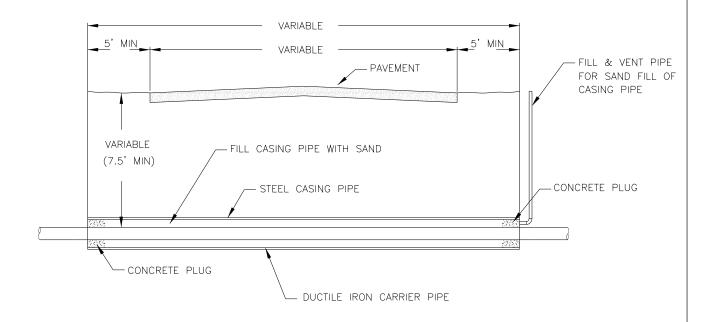
 CLEAN OUTS REQUIRED AT MAXIMUM 70' INTERVALS FROM MAIN SEWER LINE

	SANITARY SEWER SERVICE CLEAN OUT	APPROVED:	02/2021
		REVISED:	03/2020
SHAKOPEE	Steven L. Lillehang	DETAIL	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	_ 2008	



- 1. 3" X 6" STRUCTURE MARKER SIGNS SHALL BE FURNISHED AND INSTALLED FOR ALL STRUCTURES LOCATED OUTSIDE THE STREET RIGHT OF WAY AND SHALL BE CONSIDERED INCIDENTAL.
- 0.063" THICK ALUMINUM SIGN. BLACK LETTERS ON GREEN OR BLUE HIGH INTENSITY REFLECTORIZED BACKGROUND.
 U-CHANNEL POST. MINIMUM 1.2 LB./FT 6'-6" LONG, PAINTED GREEN.
 FLARED END SECTION POST SHALL NOT BE POSITIONED IN A WAY THAT WILL BLOCK FLOW.

	STRUCTURE MARKER SIGN	APPROVED:	02/2021
		REVISED:	03/2020
SHAKOPEE	Steven L. Lellehang	DETAIL	NO:
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	200	9

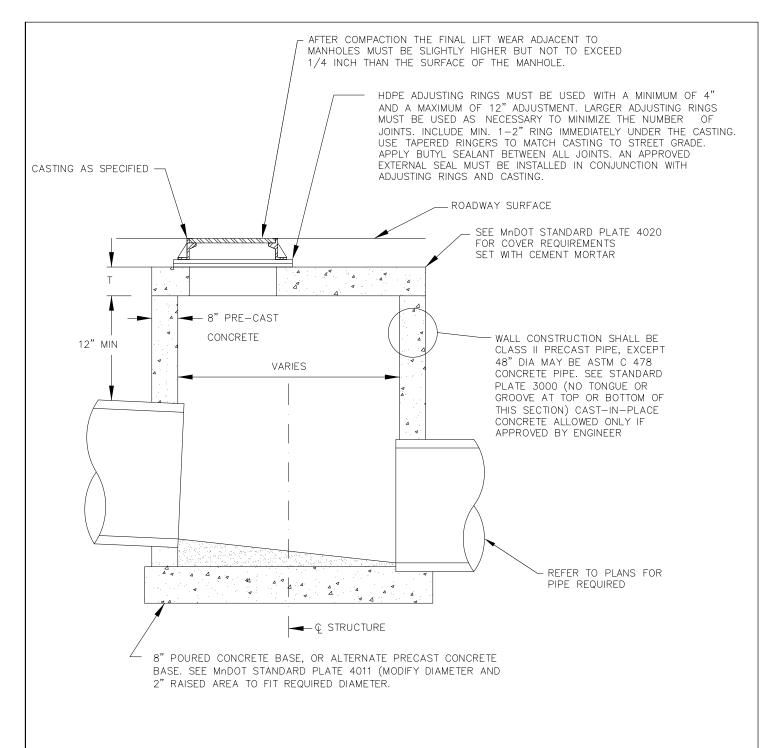


- CASING PIPE SHALL BE INSTALLED AT THE SAME GRADE AS CARRIER PIPE TO AVOID THE USE OF SHIMS. TO BE VERIFIED PRIOR TO INSTALLATION OF THE CARRIER PIPE.
 GPS COORDINATES AND TIES TO ENDS OF CASING PIPE SHALL BE
- RECORDED.

PIPE SIZE CHART

CARRIER PIPE	CASING DIAMETER	CASING THICKNESS
6"	18"	0.250
8"	22"	0.250
10"	22"	0.250
12"	26"	0.250
16"	30"	0.250
18"	30"	0.250

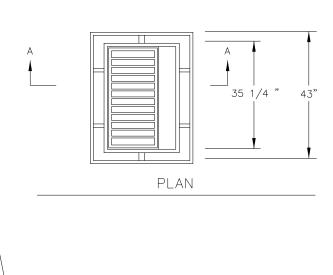




- 1. REFER TO STANDARD PLANS FOR HEIGHT AND DIAMETER REQUIRED.
- 2. REINFORCEMENT AS PER SPEC. 3301, GRADE 60.

	STANDARD MANHOLE FOR STORM SEWER	APPROVED: 02/2021
		REVISED: 02/2021
SHAKOPEE	Stoven L. Lellehong	DETAIL NO:
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	3001

CURB INLET FRAME AND CURB BOX 24"x36" SLAB OPENING FOR NEENAH R3067V OR ESS. BROS. 330 HIGH CAPACITY OR EQUAL. INSTALL R3290L FOR DRIVEWAYS AND VALLEY GUTTERS. VANE GRATE SHOWN

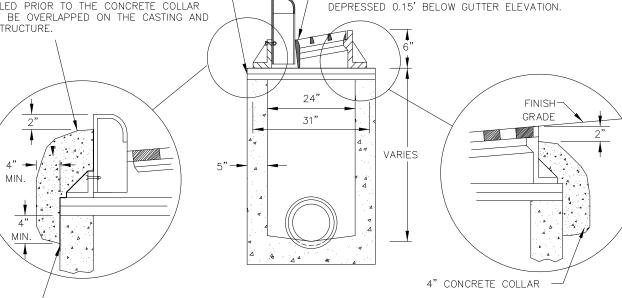


ALL STORM SEWER CASTING ELEVATIONS

SHOWN ON THE PLANS HAVE BEEN

CONCRETE ADJUSTING RINGS -2 RINGS (4") MIN 18" MAX (INCLUDING CASTING) ENCASE IN CONCRETE COLLAR USE CONCRETE CURB MIX FOR COLLAR

AN APPROVED EXTERNAL SEAL MUST BE INSTALLED IN CONJUNCTION WITH ADJUSTING RINGS, CASTING, AND PROVIDE AN INTEGRAL 4" CONCRETE COLLAR TO BE POURED DURING CURB AND GUTTER INSTALLATION. EXTERNAL SEAL MUST BE INSTALLED PRIOR TO THE CONCRETE COLLAR AND MUST BE OVERLAPPED ON THE CASTING AND ON THE STRUCTURE.



SECTION A-A

EXTERNAL SEAL MUST BE INSTALLED PRIOR TO THE CONCRETE COLLAR AND MUST BE OVERLAPPED ON THE CASTING AND ON THE STRUCTURE.

NOTES:

- 1. MINIMUM REINFORCING SHALL BE WIRE FABRIC HAVING AN AREA OF NOT LESS THAN 0.12 SQ IN PER FOOT IN BOTH DIRECTIONS.
 2. POUR A 3" TO 4" CONCRETE COLLAR AROUND RINGS EXTENDING FROM THE CASTING TO
- THE PRECAST SECTION.
- 3. REFER TO PLANS FOR THE PIPE REQUIRED.
- 4. ADJUSTING RINGS SHALL BE STACKED WITH NO MORE THAN 2" STAGGER PER RING, 6" TOTAL STAGGER FROM THE TOP SLAB OR STRUCTURE TO THE CASTING.
- 5. AFTER COMPACTION THE FINAL LIFT WEAR ADJACENT TO CATCH BASINS MUST BE SLIGHTLY HIGHER BUT NOT TO EXCEED 1/4 INCH THAN THE SURFACE OF THE CATCH BASIN.



2' X 3' CATCH BASIN

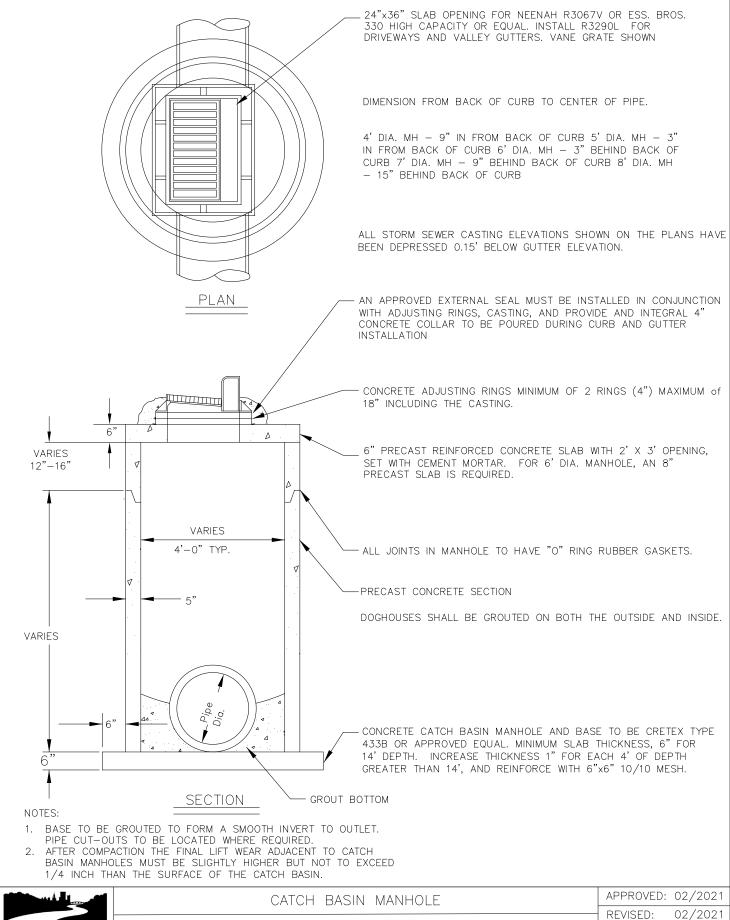
Steven L. Lillehong

PUBLIC WORKS DIRECTOR/CITY ENGINEER

APPROVED: 02/2021

REVISED: 02/2021

> DETAIL NO: 3002



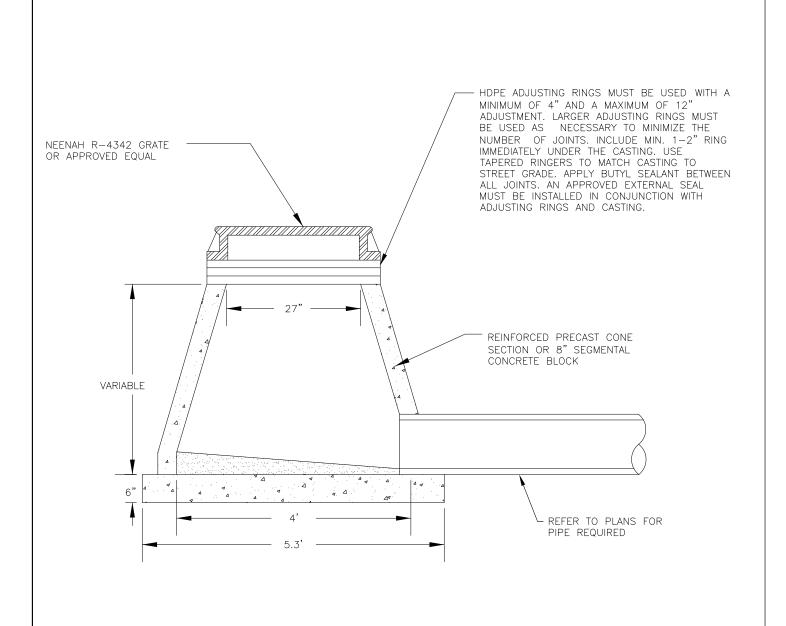
SHAKOPEE
PUBLIC WORKS DEPARTMENT

CATCH BASIN MANHOLE

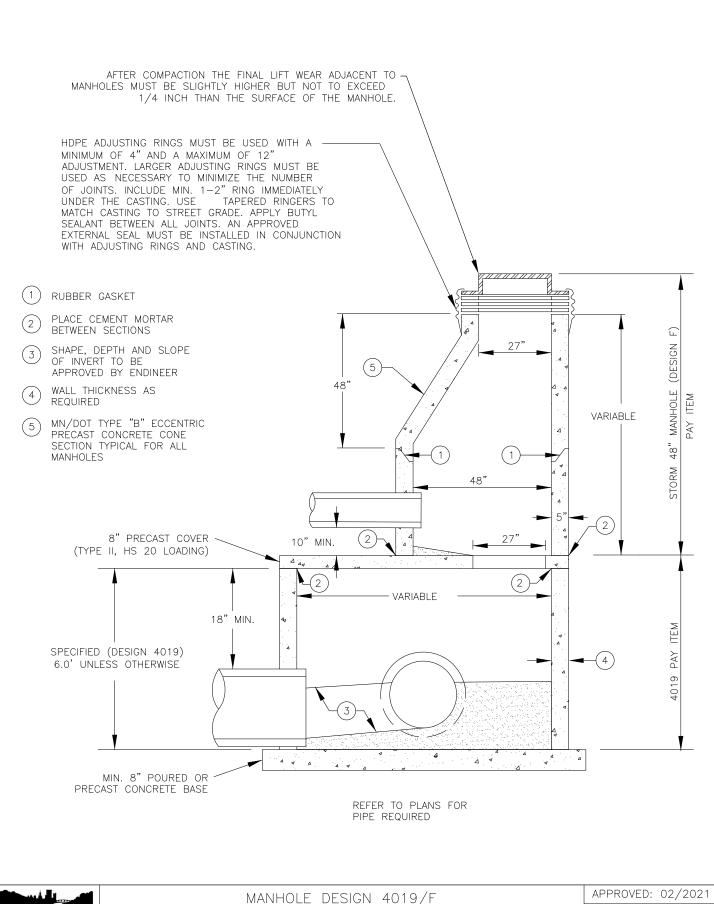
REVISED: 02/2021

REVISED: 02/2021

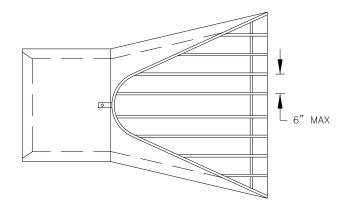
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3003

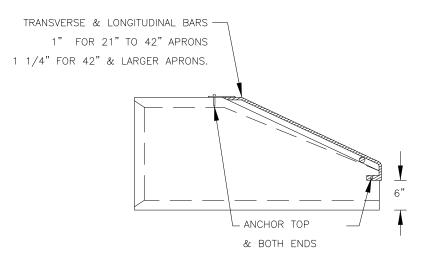


	27" CATCH BASIN	APPROVED:	02/2021
	- A A A	REVISED:	03/2020
SHAKOPEE	Steven L. Lillehang	DETAIL	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	300)4



	MANHOLE DESIGN 4019/F	APPROVED: 02/2021
	•	REVISED: 02/2021
SHAKOPEE	Steven L. Lellehang	DETAIL NO:
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	 3005

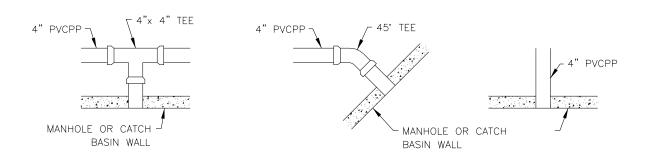


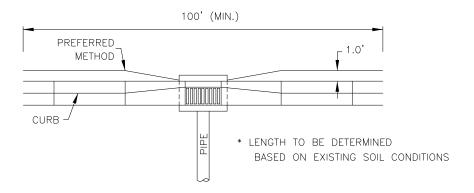


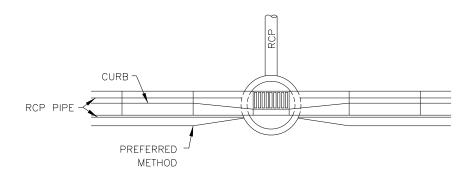
- 1. REFERENCE MNDOT STANDARD PLATE 3133D FOR RIPRAP DETAILS. ALL RIPRAP SHALL BE FIELDSTONE.
- 2. TRASH GUARD SHALL BE USED FOR 24" OR GREATER FLARED END. 3. ALL TRASH GUARDS SHALL BE GALVANIZED AFTER FABRICATION PER
- MNDOT SPEC. 3392 & 3394.

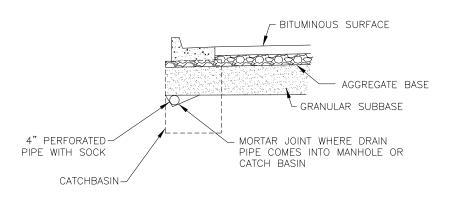
 4. TIE LAST 3 PIPE JOINTS. USE 2 GALVANIZED TIE BOLT FASTENERS PER JOINT. INSTALL AT 60° FROM TOP TO BOTTOM OF PIPE.

	TRASH GUARD FOR FLARED END SECTION	APPROVED:	02/2021
	- A A · A	REVISED:	03/2020
SHAKOPEE	Steven L. Lillehang	DETAIL NO:	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	3006	

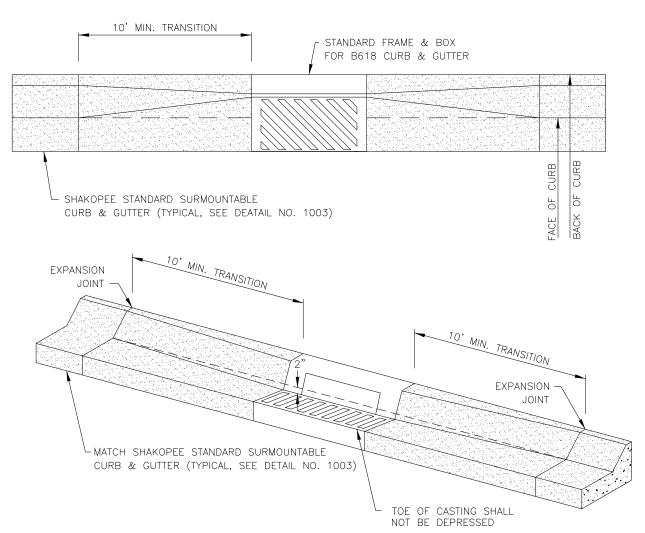






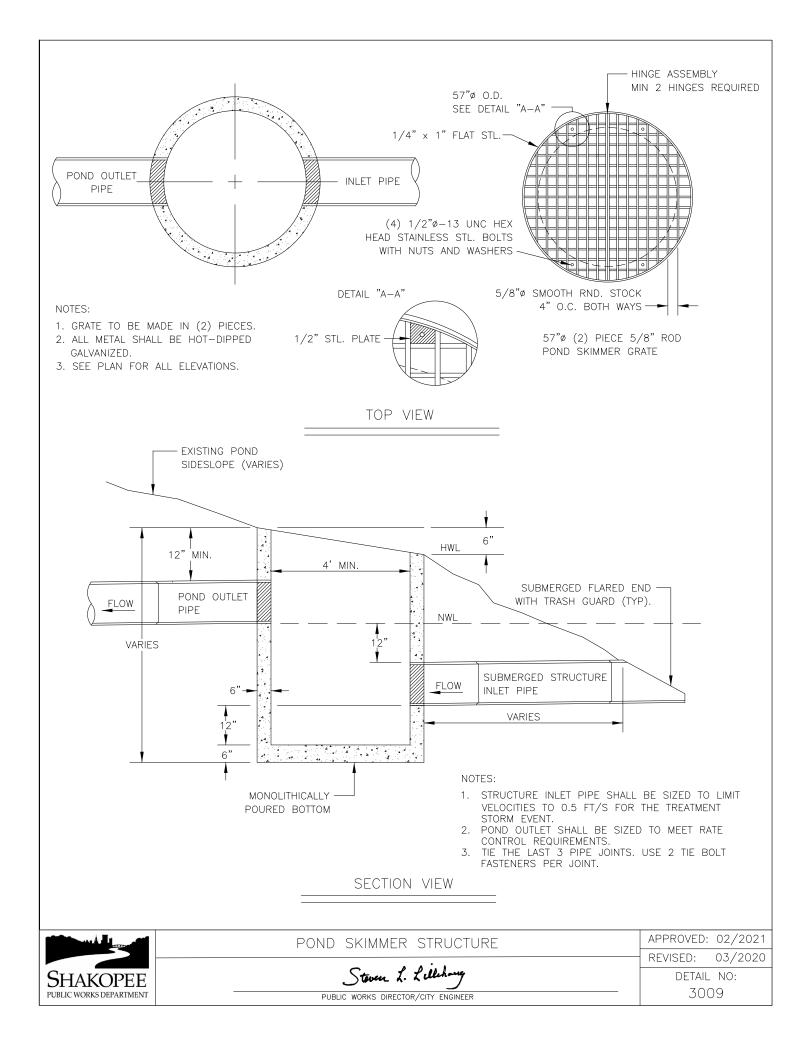


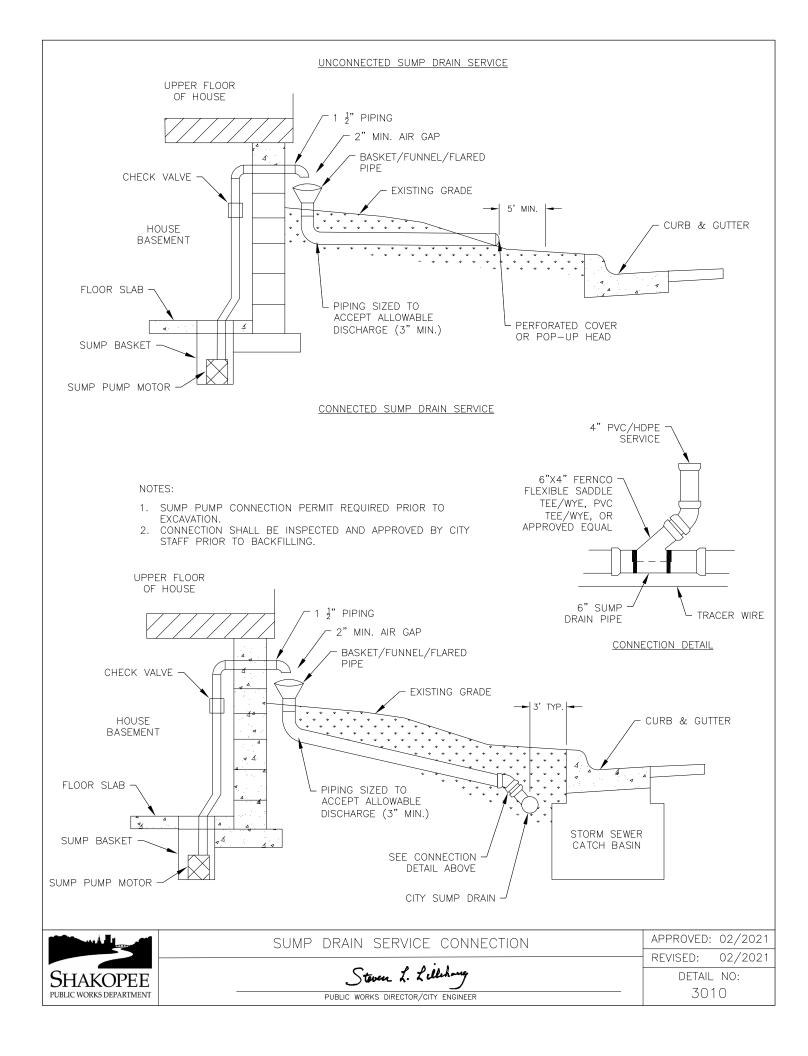


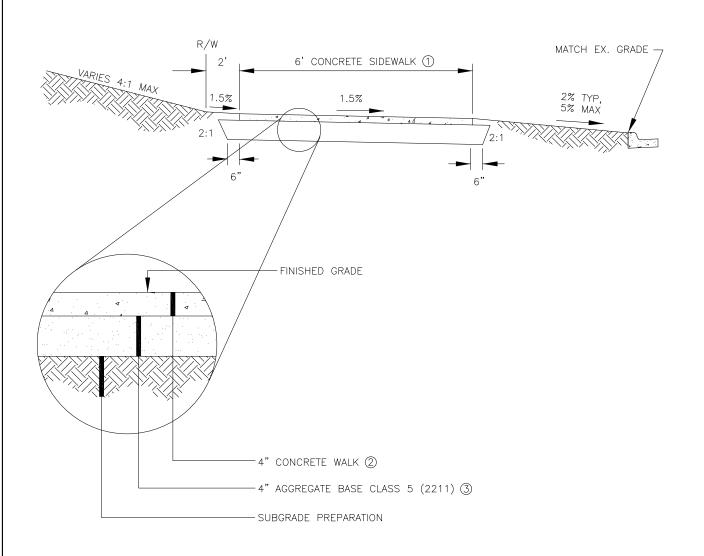


1. STORM SEWER TOP OF CASTING ELEVATION SHOWN ON THE PLANS INCLUDES A 0.15' DEPRESSION FROM THE PROPOSED GUTTER GRADE. THE CONCRETE CURB SHOULD BE TRANSITIONED FROM THE PROPOSED GUTTER GRADE TO THE CASTING ELEVATION 10' ON EACH SIDE OF THE CASTING.

	TRANSITION TO B618 CURB AT CATCH BASIN	APPROVED: 02/2021	
		REVISED: 03/2020	
SHAKOPEE	SHAKOPEE Stown L. Lillehong		
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	3008	



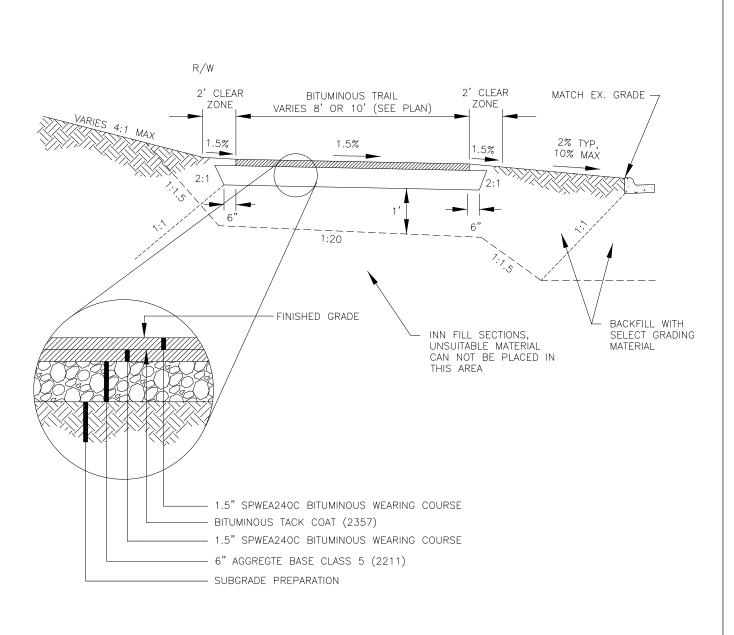




SIDEWALK DIMENSIONS:

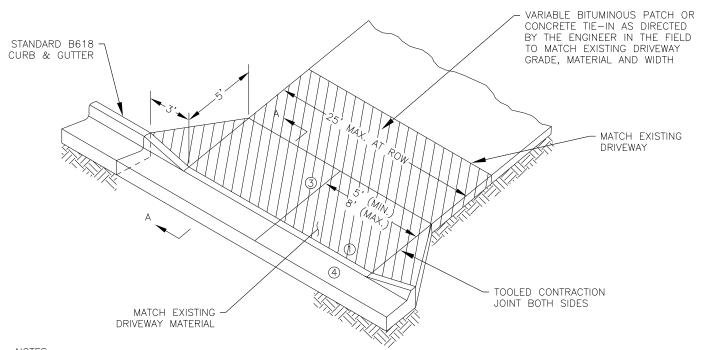
- ① WIDTH 6' (NEW) OR MATCH EXISTING (SPOT REPAIRS)
- ② DEPTH 4" TYPICAL, 6" AT RESIDENTIAL DRIVEWAYS
 6" IN NEW DEVELOPMENTS WHERE SURMOUNTABLE
 CURB IS CONSTRUCTED AND RESIDENTIAL DRIVEWAYS
 COULD BE CONSTRUCTED.
 8" AT COMMERCIAL DRIVEWAYS
- (3) BASE DEPTH 12" GRANULAR BORROW OR 4" OF CLASS 5 AGGREGATE
- 4 CONTRACTION JOINTS 5' INTERVALS (APPROX.)
- 5 EXPANSION JOINTS 100' INTERVALS (MAX.)

	TYPICAL SIDEWALK	APPROVED:	02/2021
	- A A * 1	REVISED:	03/2020
SHAKOPEE	Steven L. Lellehang	DETAIL NO: 4001	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER		

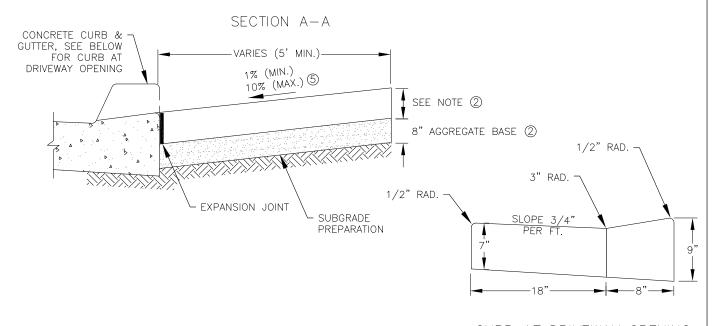


1. SAND AND/OR GEOTEXTILE FABRIC TO BE INCLUDED AS REQUIRED BY THE CITY ENGINEER.

	BITUMINOUS TRAIL	APPROVED: 02/2021	
		REVISED: 03/2020	
SHAKOPEE Stown L. Lellehong		DETAIL NO:	
PUBLIC WORKS DEPARTMENT	PUBLIC WORKS DIRECTOR/CITY ENGINEER	4002	

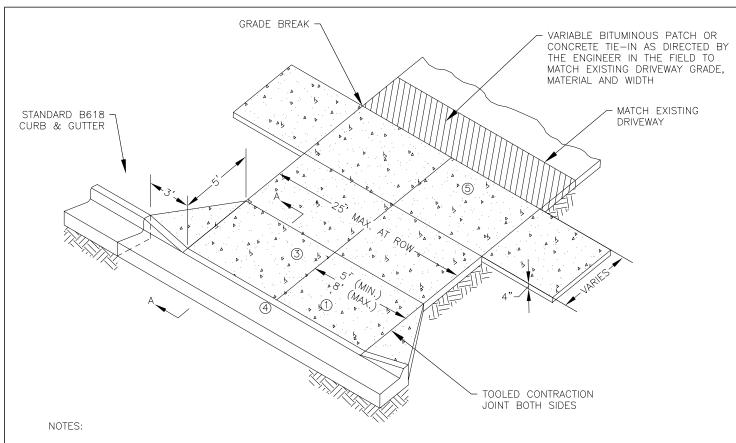


- (1) IF DRIVEWAY MATERIAL IS CONCRETE SPACE CONTROL JOINTS SUCH THAT MAXIMUM PANEL DIMENSIONS ARE 8'X8'.
- 2 PAVEMENT SECTION SHOWN MUST BE 6" MINIMUM DEPTH FOR CONCRETE AND 3" MINIMUM DEPTH FOR BITUMINOUS. MATCH THICKER SECTIONS AS DIRECTED BY THE ENGINEER. BITUMINOUS PAVEMENT SECTIONS MUST BE CONSTRUCTED IN MULTIPLE LIFTS 1.5" MINIMUM AND 2.5" MAXIMUM.
- (3) IF DRIVEWAY MATERIAL IS CONCRETE COORDINATE AND ALIGN JOINTS WITH APRON, SIDEWALK AND EXISTING CONCRETE DRIVEWAY.
- ① CURB & GUTTER AT DRIVEWAY OPENINGS WILL BE PAID FOR AS CURB & GUTTER. REPLACEMENT OF DRIVEWAYS NEXT TO THE NEW CURB & GUTTER WILL BE PAID FOR AS THE SPECIFIED DRIVEWAY TYPE.
- (5) USE LESSER OF 10% OR EXISTING GRADE WHEN MATCHING EXISTING DRIVEWAY.

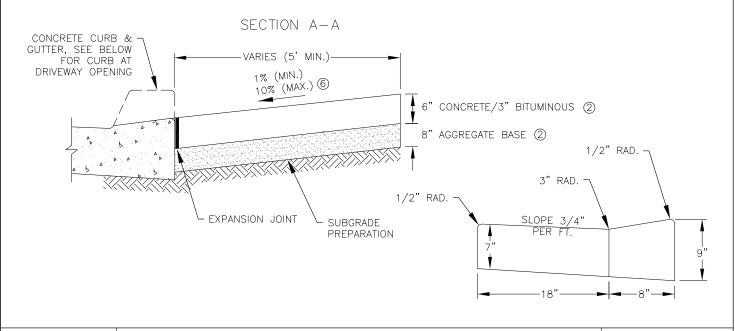


CURB AT DRIVEWAY OPENING





- ① SPACE CONTROL JOINTS SUCH THAT MAXIMUM PANEL DIMENSIONS ARE 8'X8'.
- (2) PAVEMENT SECTION SHOWN MUST BE MINIMUM DEPTHS. MATCH THICKER SECTIONS AS DIRECTED BY THE ENGINEER. BITUMINOUS PAVEMENT SECTIONS MUST BE CONSTRUCTED IN MULTIPLE LIFTS 1.5" MINIMUM AND 2.5" MAXIMUM.
- 3 COORDINATE AND ALIGN JOINTS WITH APRON, SIDEWALK AND EXISTING CONCRETE DRIVEWAY.
- (4) CURB & GUTTER AT DRIVEWAY OPENINGS WILL BE PAID FOR AS CURB & GUTTER. REPLACEMENT OF DRIVEWAYS NEXT TO THE NEW CURB & GUTTER WILL BE PAID FOR AS THE SPECIFIED DRIVEWAY TYPE.
- (5) SIDEWALK THROUGH THE DRIVEWAY SHALL BE 6" THICK AND WILL BE PAID FOR AS CONCRETE DRIVEWAY APRON.
- 6 USE LESSER OF 10% OR EXISTING GRADE WHEN MATCHING EXISTING DRIVEWAY.



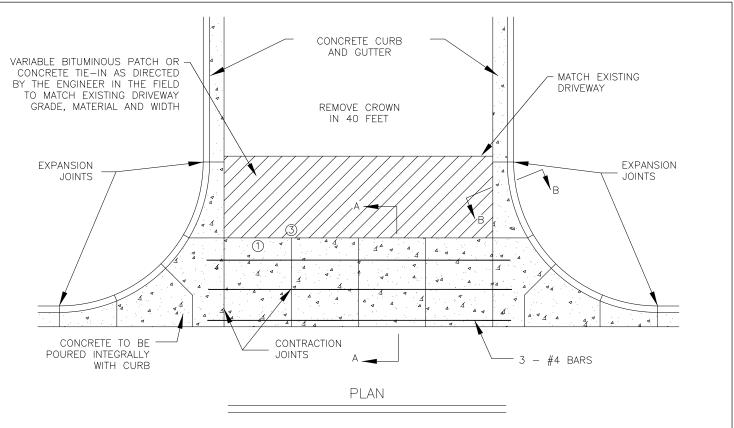


TYPICAL RESIDENTIAL DRIVEWAY WITH SIDEWALK

APPROVED: 02/2021

REVISED: 02/2021

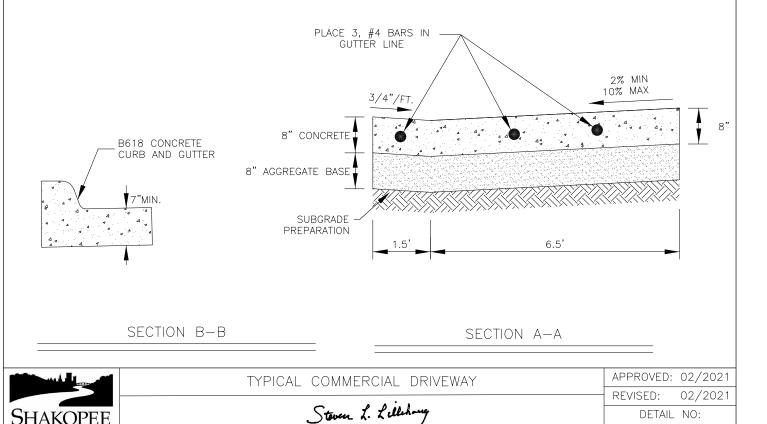
DETAIL NO:
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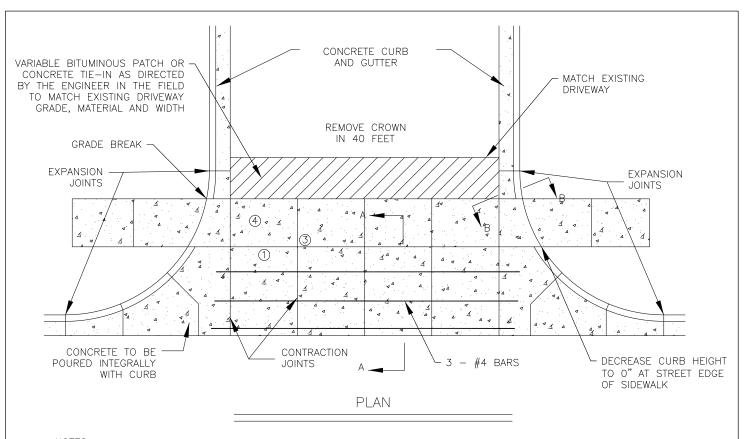
SHAKOPEE

PUBLIC WORKS DEPARTMENT

- 1 SPACE CONTROL JOINTS SUCH THAT MAXIMUM PANEL DIMENSIONS ARE 8'X8'.
- (2) PAVEMENT SECTION SHOWN MUST BE MINIMUM DEPTHS. MATCH THICKER SECTIONS AS DIRECTED BY THE ENGINEER. BITUMINOUS PAVEMENT SECTIONS MUST BE CONSTRUCTED IN MULTIPLE LIFTS 1.5" MINIMUM AND 2.5" MAXIMUM.
- (3) COORDINATE AND ALIGN JOINTS WITH APRON, SIDEWALK AND EXISTING CONCRETE DRIVEWAY.



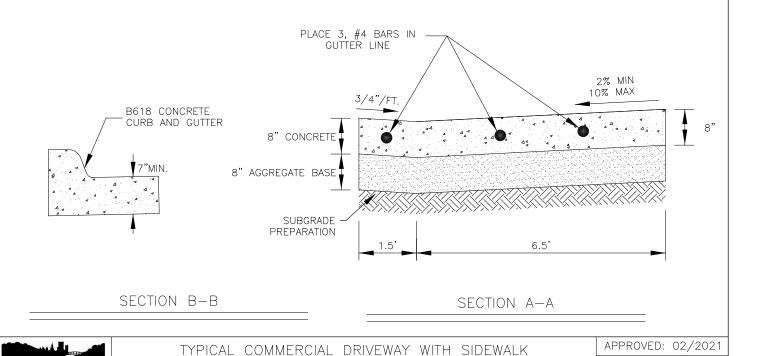
4005



SHAKOPEE

PUBLIC WORKS DEPARTMENT

- 1) SPACE CONTROL JOINTS SUCH THAT MAXIMUM PANEL DIMENSIONS ARE 8'X8'.
- ② PAVEMENT SECTION SHOWN MUST BE MINIMUM DEPTHS. MATCH THICKER SECTIONS AS DIRECTED BY THE ENGINEER. BITUMINOUS PAVEMENT SECTIONS MUST BE CONSTRUCTED IN MULTIPLE LIFTS 1.5" MINIMUM AND 2.5" MAXIMUM.
- (3) COORDINATE AND ALIGN JOINTS WITH APRON, SIDEWALK AND EXISTING CONCRETE DRIVEWAY.
- ④ SIDEWALK THROUGH THE DRIVEWAY SHALL BE 8" THICK AND NOT EXCEED 1.5% CROSS SLOPE.



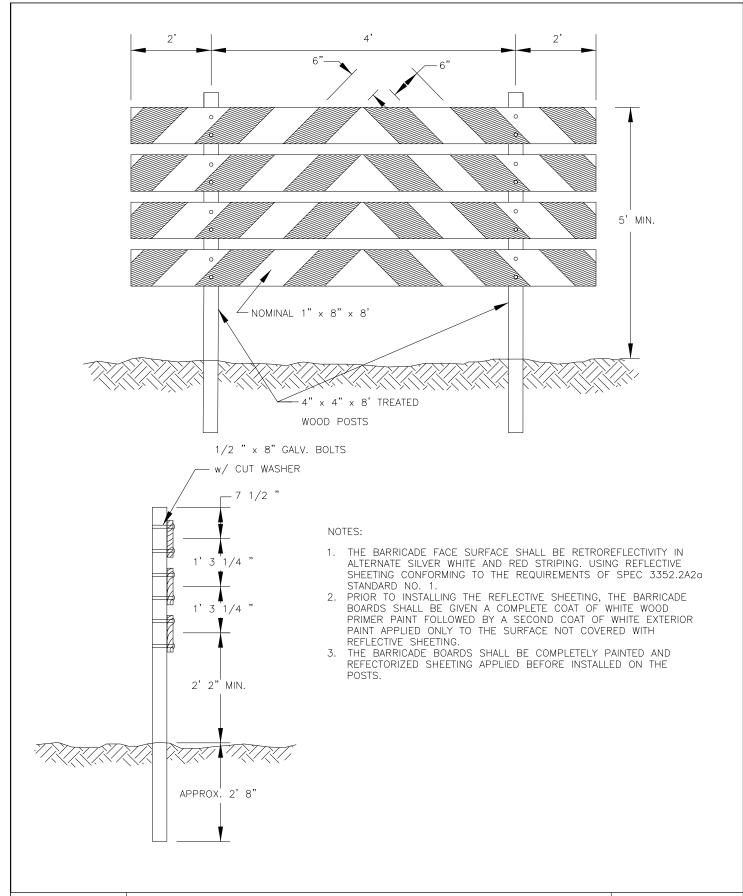
Steven L. Lillehang

REVISED:

DETAIL NO:

4006

02/2021





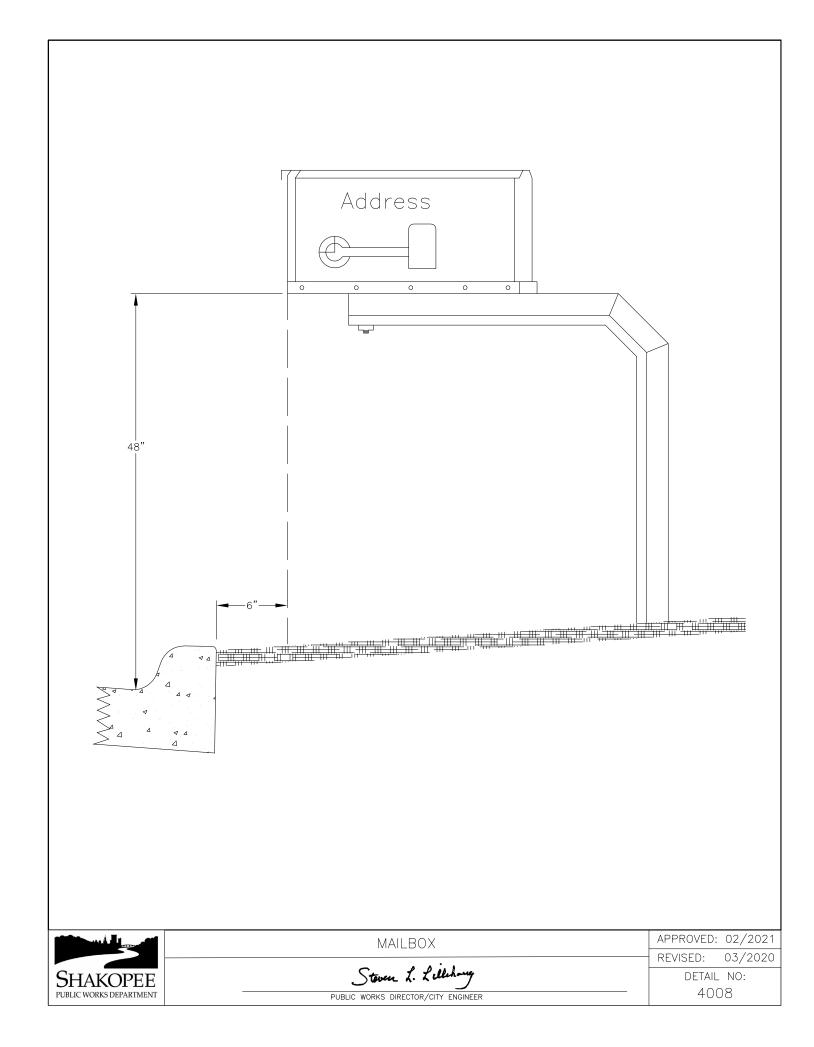
TYPICAL BARRICADE

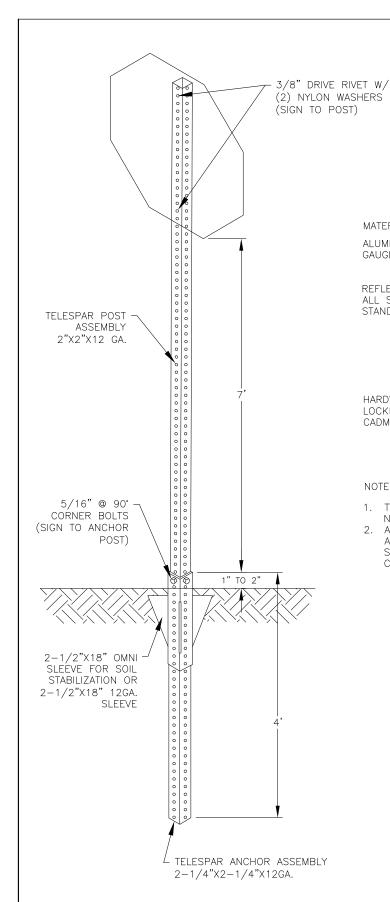
APPROVED: 02/2021

REVISED: 03/2020

DETAIL NO:

4007





TRAFFIC SIGN SPECIFICATIONS

MATERIAL:

ALUMINUM SHALL BE 5052-H38 OR 6061-T6 ALLOY. GAUGE SHALL BE: 0.080 ON THE LONGEST SIDE UP TO 30" 0.100 ON THE LONGEST SIDE OVER 30"

REFLECTING SHEETING SHALL BE HIGH PERFORMANCE (DG3) ALL SIGNS CONFORM TO SECTION 3352, SIGNS AND MARKERS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

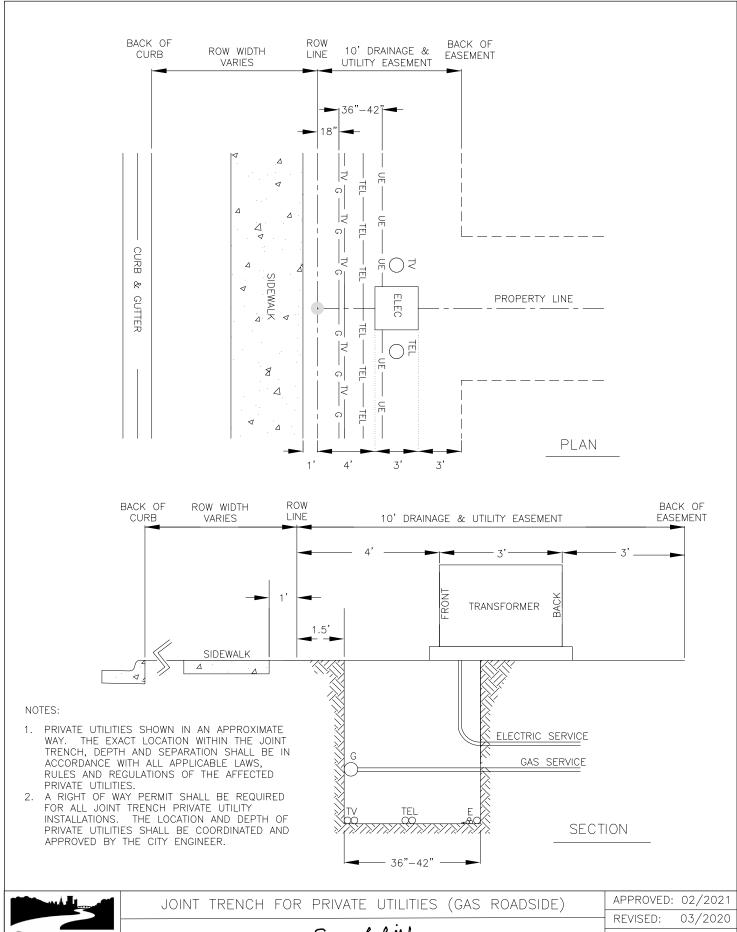
BOLTS, NUTS, AND WASHERS

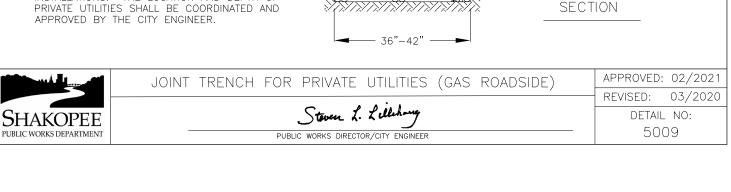
HARDWARE SHALL BE GRADE 5 STEEL BOLTS W/ LOCKING NUTS MINIMUM AND BE GALVANIZED OR CADMIUM PLATED.

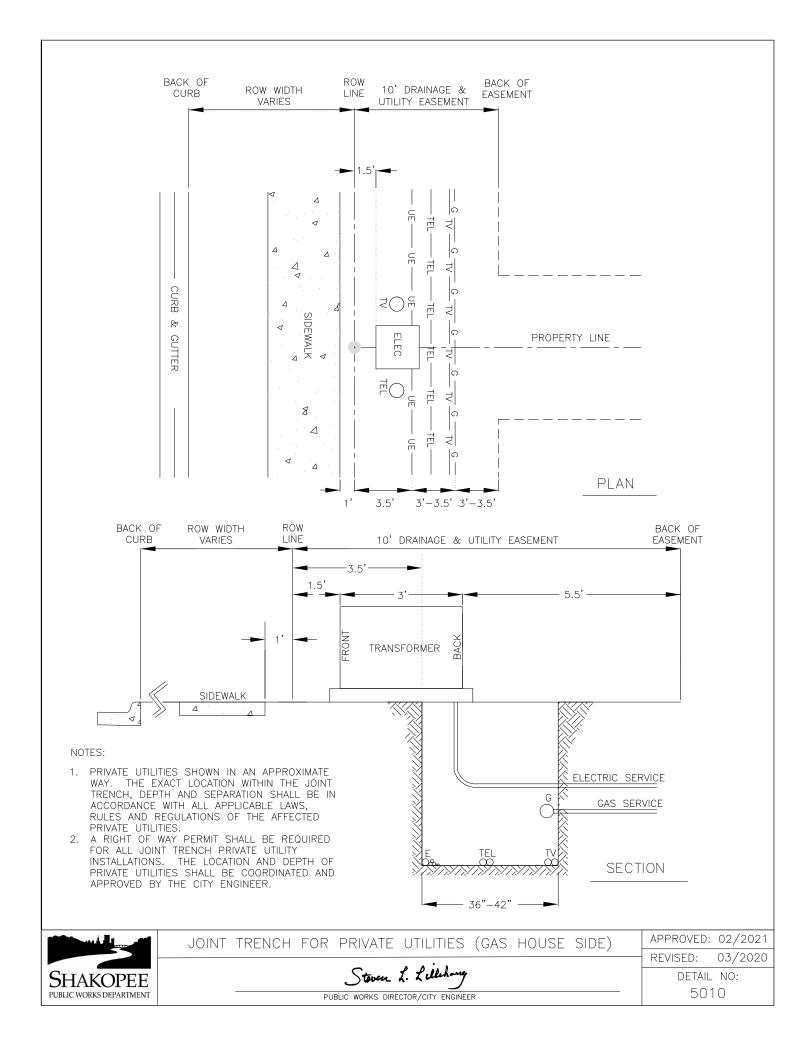
NOTES:

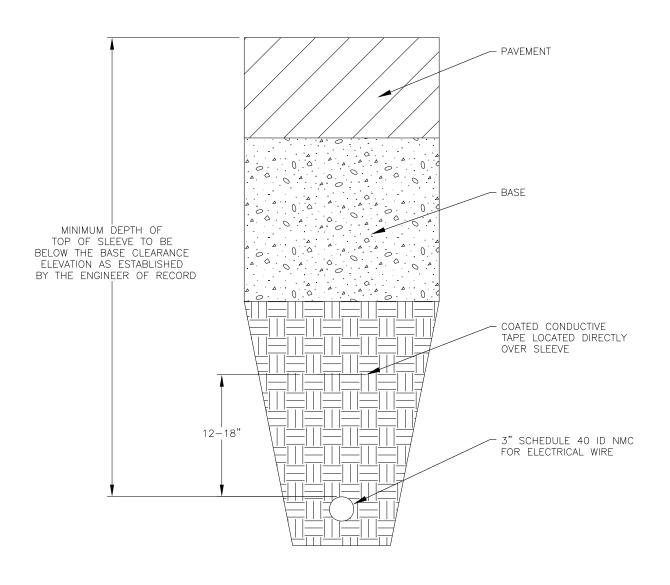
- 1. TYPICAL SIGN INSTALLATION WHEN STREET NAME SIGNS ARE NOT INSTALLED.
- 2. ALL SIGNS LOCATED IN CONCRETE MEDIANS SHALL HAVE AN ADDITIONAL BREAKAWAY SYSTEM APPROVED BY THE CITY OF SHAKOPEE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.











SHAKOPEE
PUBLIC WORKS DEPARTMENT

IRRIGATION CONDUIT AND STREET LIGHT CONDUIT	APPROVED:	02/2021	
. • .	REVISED:	03/2020	
Steven L. Lillehang		DETAIL NO:	
PUBLIC WORKS DIRECTOR/CITY ENGINEER		5011	