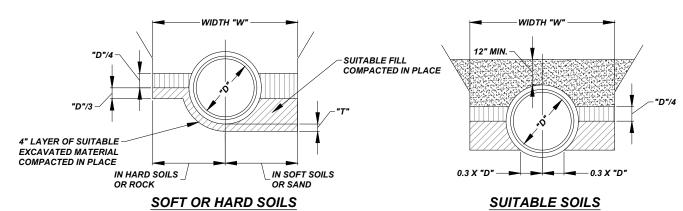
CITY OF GOSHEN STANDARD SEWER DETAILS

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SW-102	CURB & GUTTER CASTING AND GUTTER CASTING					
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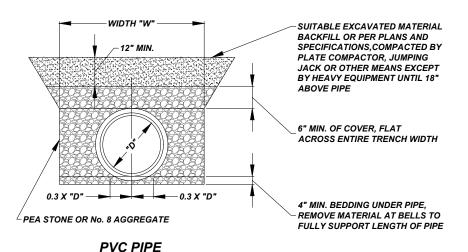
	SECTION 200 SEWER STRUCTURE DETAILS				
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SW-202	SEWER MANHOLE - ABOVE BENCH				
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SW-205	SEWER DOGHOUSE MANHOLE - CONE W/ MANHOLE CASTING				
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SW-302	PRE-TREATMENT STRUCTURE				
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SW-304	1,200 GAL. DRYWELL WITH BASE				
SW-305	1,500 GAL. DRYWELL WITH BASE				
SW-306	1,800 GAL. DRYWELL WITH BASE				
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SW-604	SIMPLEX GRINDER PUMP H-PANEL				
SW-605	CURB STOP SWING CHECK FORCED SEWER ASSEMBLY				





MAX. TRENCH WIDTH AT TOP



NOTE:

TO 18"

TO 36"

OVER 36"

MIN. THICKNESS

9"

12"

1. PIPE SHALL BE FIRMLY BEDDED ON UN-DISTURBED SOIL AS SHOWN IN SUITABLE SOILS DETAIL. IN THE EVENT THE SOIL CANNOT BE SHAPED, THE TRENCH SHALL BE EXCAVATED TO A GREATER DEPTH AND BACKFILLED WITH SELECTED FILL AND COMPACTED AS SHOWN IN SOFT OR HARD SOILS DETAIL. IN ALL CASES BELL HOLES SHALL BE PROVIDED SO THE PIPE BELL SUPPORTS NO WEIGHT

SEWER TRENCH, PIPE LAYING AND BEDDING

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety
Office of Engineering

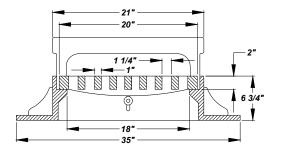
204 East Jefferson, Suite 1 Street, Goshen, Indiana 46528 Phone: 574-534-2201 Fax: 574-533-8626 Web: goshenindiana.org

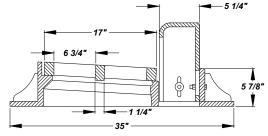
Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Re						
	03/27/2025					

٦	Drafted By:	Approved By:
	J. Hoffman	D. Sailor, P.E.
	Drawing Number:	
	l SW.	-101

NOTES:

- 1. NEENAH R-3070 W/ TYPE 'R' OR 'V' GRATE OR APPROVED EQUIVALENT
- 2. INCLUDE STREAM WARNING TEXT



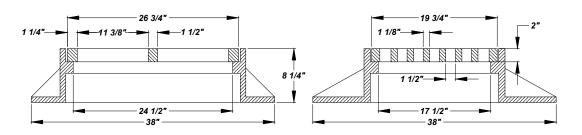


CURB & GUTTER CASTING

NOT TO SCALE

NOTES:

- 1. NEENAH R-3339 OR APPROVED EQUIVALENT
- 2. INCLUDE STREAM WARNING TEXT



GUTTER CASTING

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety
Office of Engineering

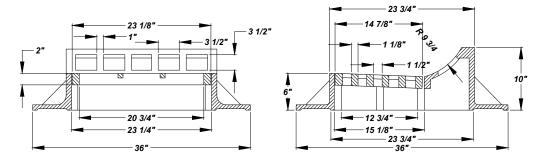
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Drawing Number:	400
J. Hoffman	D. Sailor, P.E.
Drafted By:	Approved By:

NOTES:

- 1. NEENAH R-3501-L-1A OR APPROVED EQUIVALENT
- 2. INCLUDE STREAM WARNING TEXT



ROLLED CURB CASTING

NOT TO SCALE

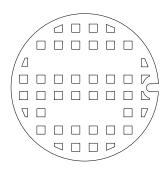
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₃ [03/27/2025					
- [

Drawing Number:	-103
J. Hoffman	D. Sailor, P.E.
Drafted By:	Approved By:





TYPE 'B' LID

TYPE 'D' LID

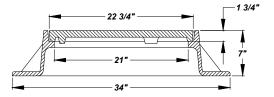
NOTES:

SOLID LID

- 1. NEENAH R-1772 W/ TYPE 'B' LID OR APPROVED EQUIVALENT
- 2. WORD 'STORM' OR 'SANITARY' ON LID

OPEN GRATE

- 1. NEENAH R-1772 W/ TYPE 'D' LID OR APPROVED EQUIVALENT
- 2. INCLUDE STREAM WARNING TEXT



ROUND FRAME AND CASTING

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety
Office of Engineering

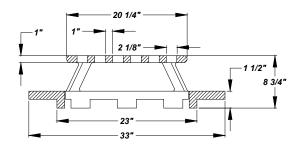
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03/27/2025					

_	Drafted By:	Approved By:
Ì		
- 1	J. Hoffman	D. Sailor, P.E
- 1	Drawing Number:	
١	SW-	.104
		10-

NOTES:

- 1. NEENAH R-4341-A OR APPROVED EQUIVALENT
- 2. INCLUDE STREAM WARNING TEXT



DITCH/DRYWELL ROUND GRATE CASTING

NOT TO SCALE

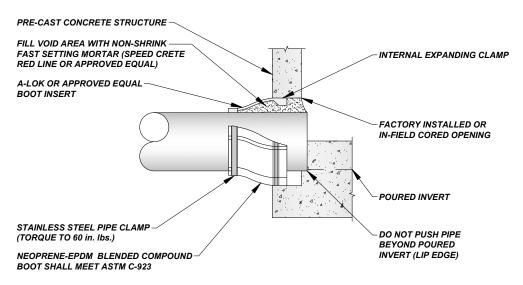
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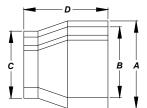
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Drafted By:	Approved By:				
J. Hoffman	D. Sailor, P.E.				
Drawing Number:					
SW-	-105				



SUGGESTED PIPE O.D.	HOLE	& BOC DIMEN	T DIAM ISIONS	ETER
RANGE (in.)	Α	В	С	D
3 1/2" - 4 1/2"	7"	6 1/8"	4 1/4"	6"
5 3/8" - 7"	12'	10 7/8"	6 1/2"	8"
7" - 8 1/2"	12"	10 7/8"	8"	8"
8 3/16" - 9 3/4"	12"	10 7/8"	9 1/4"	8"
9 1/4" - 11"	16"	14 7/8"	10 1/2"	8"
10 1/4" - 11"	16"	14 7/8"	12"	8"
12" - 13 3/4"	16"	14 7/8"	13 1/4'	8"
14 1/2" - 16 1/4"	20"	18 7/8"	15 3/4"	8"
15 3/4" - 17 1/2"	20"	18 7/8"	17"	8"
19 1/2" - 21 1/4"	24"	22 7/8"	20 3/4"	8"



SANITARY MANHOLE PIPE CONNECTION

NOT TO SCALE

The City Of Goshen

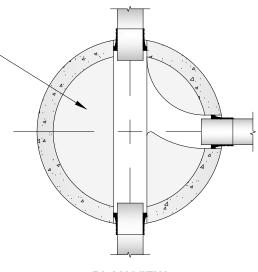
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03/27/2025							

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1	Drafted By:	Approved By:
-1	J. Hoffman	D. Sailor, P.E
- 1	Drawing Number:	
	SW-	106

PRECAST INVERT AND BENCH. IF POURED-IN THE FIELD, THE CITY OF GOSHEN ENGINEERING DEPARTMENT MUST PRE-APPROVE THE DESIGN BEFORE INSTALLING. IF NOT PRE-APPROVED, THE CONTRACTOR MAY BE REQUIRED TO REMOVE THE BENCH AND RE-POUR WITH NO ADDITIONAL COMPENSATION



PLAN VIEW

INVERT AND BENCH

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety Office of Engineering

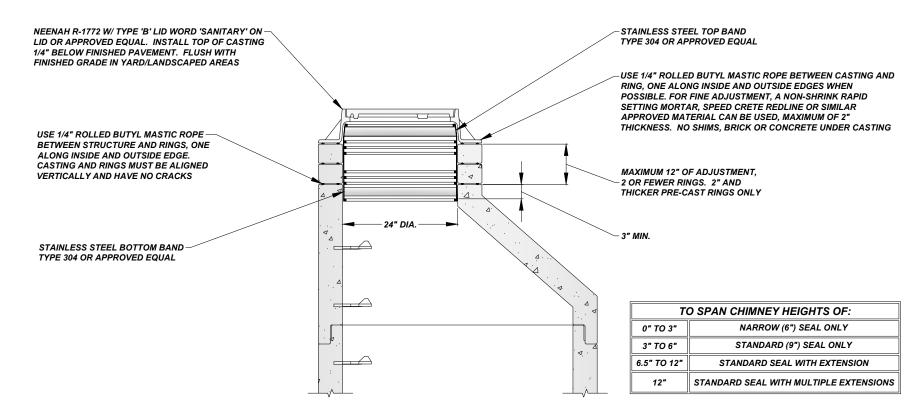
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CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By:

J. Hoffman
Drawing Number:

SW-107



MANHOLE INTERNAL CHIMNEY SEAL

NOT TO SCALE

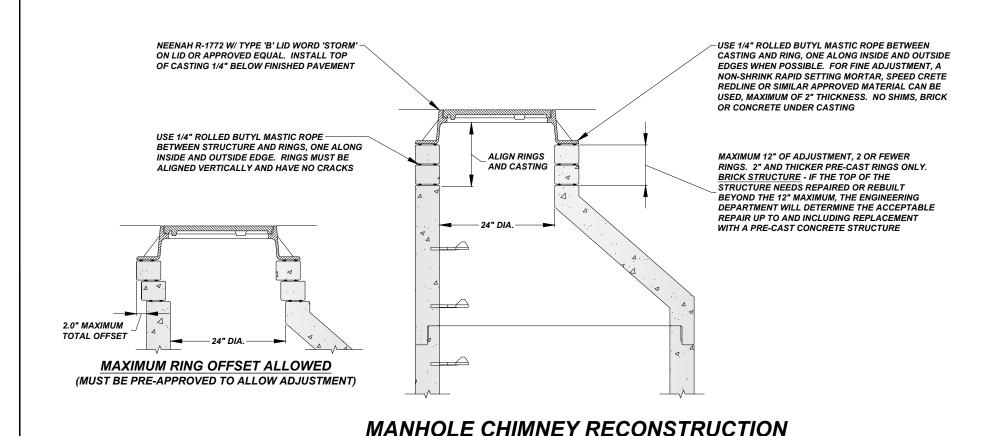
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CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By:
J. Hoffman
Drawing Number:
SW-108



NOT TO SCALE

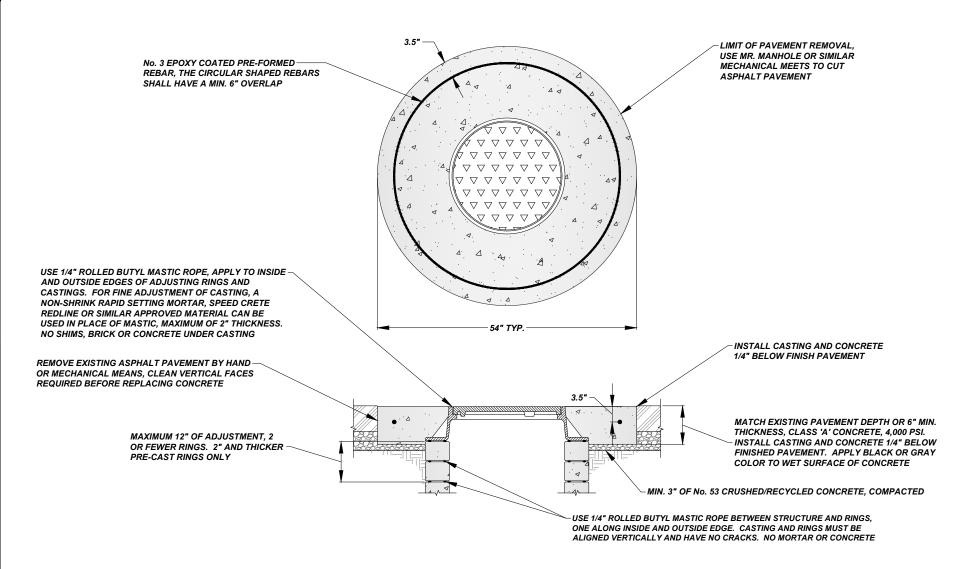
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03/27/2025							

J. Hoffman D. Sailor, P.
Drafted By: Approved By:



RESETTING MANHOLE CASTING W/ CONCRETE RINGS

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety Office of Engineering

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Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions						
03/27/2025						

Drawing Number:	-110
J. Hoffman	D. Sailor, P.E.
Drafted By:	Approved By:
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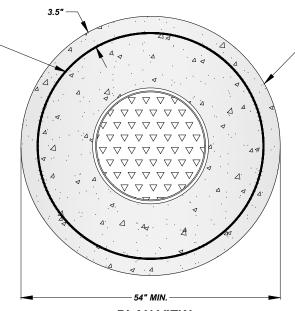
No. 3 EPOXY COATED PRE-FORMED REBAR, THE CIRCULAR-SHAPED REBARS SHALL HAVE A MIN. 6" OVERLAP

CHIMNEY LINER SPECIFICATIONS:

- 1. MADE FROM POLYVINYL CHLORIDE COMPOUNDS WHICH COMPLY WITH THE REQUIREMENTS FOR A MINIMUM CELL CLASSIFICATION OF 12364 AS DEFINED BY ASTM D-1784
- 2. MINIMUM PIPE STIFFNESS SHALL BE 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D-2412
- 3. NO VISUAL CRACKING OR SPLITTING OF THE WATERWAY WALL SHALL BE EVIDENCED WHEN TESTED IN ACCORDANCE WITH ASTM D-2444 WITH A 20 LB. WEIGHT, TUP B, FLAT PLATE HOLDER B TO A LEVEL OF 220 FT. LBS.
- 4. THERE SHALL BE NO SIGN OF FLAKING OR DISINTEGRATION WHEN IMMERSED IN ANHYDROUS ACETONE FOR 20 MINUTES AS DESCRIBED IN ASTM D-2152
- 5. THERE SHALL BE NO EVIDENCE OF CRACKING OR SPLITTING WHEN PIPE IS FLATTENED IN A CIRCUMFERENTIAL ORIENTATION BETWEEN TWO FLAT PLATES BY SIXTY PERCENT (60%) OF THE ORIGINAL DIAMETER

TO THE BOTTOM AND TOP OF THE CHIMNEY LINER TO PROVIDE A WATER TIGHT SEAL

6. EACH LENGTH OF PIPE SHALL PASS A FACTORY 3.5 PSI AIR TEST AS DESCRIBED IN ASTM F-1803



- LIMIT OF PAVEMENT REMOVAL, USE MR. MANHOLE OR SIMILAR MECHANICAL MEETS TO CUT ASPHALT PAVEMENT

PLAN VIEW CENTER CHIMNEY LINER AND INSTALL CASTING AND CONCRETE **CASTING ON STRUCTURE OPENING** 1/4" BELOW FINISH PAVEMENT No. 3 EPOXY COATED REBAR CLASS 'A' CONCRETE, 4,000 PSI. INSTALL CASTING AND CONCRETE 1/4" BELOW FINISHED PAVEMENT. APPLY BLACK OR GRAY MAXIMUM 12" OF ADJUSTMENT. **COLOR TO WET SURFACE OF CONCRETE** CHIMNEY LINER SHALL BE VYLON PIPE OR APPROVED EQUAL WATERSTOP ALONG BOTTOM JOINT WITH STRUCTURE WATER STOP SHALL BE CONSTRUCTED OF SWELLSTOP 3/8" X MIN. 3" OF No. 53 CRUSHED/RECYCLED CONCRETE, COMPACTED 3/4"CONTROLLED EXPANSION WATERSTOP OR EQUIVALENT APPLY A LIBERAL AMOUNT OF WHITE MR. MANHOLE SEALANT, MM 306 OR APPROVED EQUAL

RESETTING MANHOLE CASTING W/ CHIMNEY LINER

NOT TO SCALE

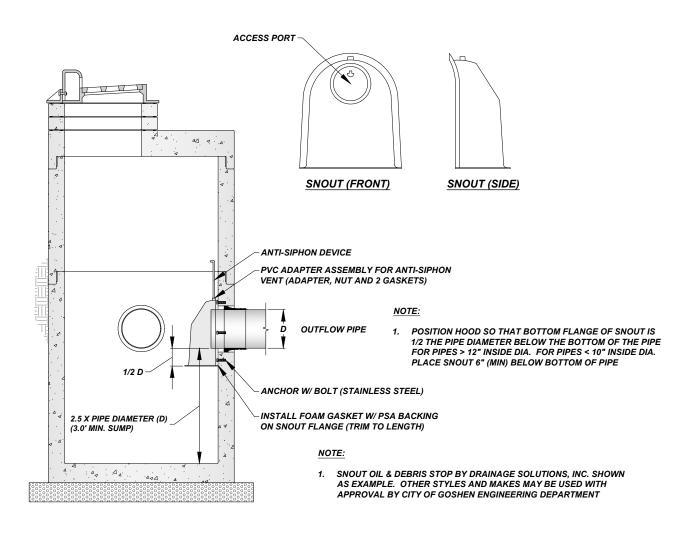
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03/27/2025								

Drawing Number:	111
J. Hoffman	D. Sailor, P.E.
Drafted By:	Approved By:



SEWER HOOD/SNOUT

NOT TO SCALE

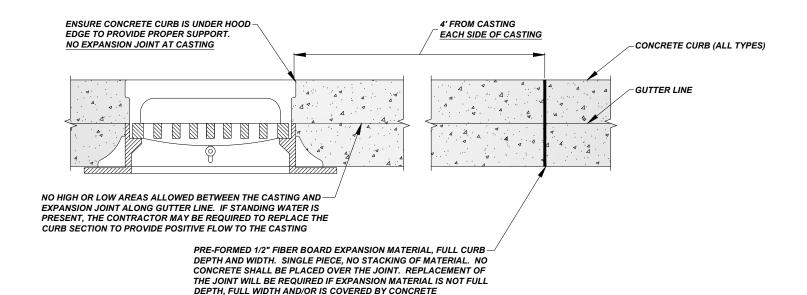
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8	03/27/2025					

٦	Drafted By:	Approved By:
١	J. Hoffman	D. Sailor, P.E
- 1	Drawing Number:	
	SW-	-112



CURB CASTING EXPANSION JOINT

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety Office of Engineering

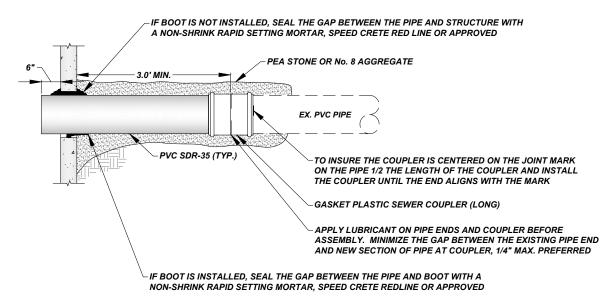
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8	03/27/2025					

J. Hoffman D. Sailor, P.	.E
Drafted By: Approved By:	

IF BOOT IS NOT INSTALLED, SEAL THE GAP BETWEEN THE PIPE AND STRUCTURE WITH A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR APPROVED PEA STONE OR No. 8 AGGREGATE EX. PVC PIPE PVC SDR-35 (TYP.) IF BOOT IS INSTALLED, SEAL THE GAP BETWEEN THE PIPE AND BOOT WITH A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE REDLINE OR APPROVED

PVC BELL CONNECTION



PVC COUPLER CONNECTION

NEW OR REPLACEMENT STRUCTURE INSTALLATION ON EXISTING PVC PIPE

NOT TO SCALE

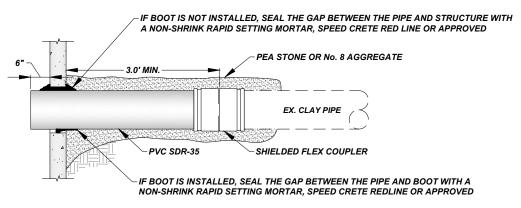
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Office of Engineering

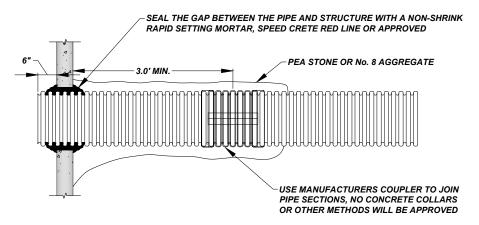
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03/27/2025					

٦	Drafted By:	Approved By:
١	J. Hoffman	D. Sailor, P.E.
1	Drawing Number:	
	SW-	114



SHIELDED FLEX COUPLER CONNECTION



CORRUGATED COUPLER CONNECTION

NEW OR REPLACEMENT STRUCTURE INSTALLATION ON EXISTING CLAY OR CORRUGATED PIPE

NOT TO SCALE

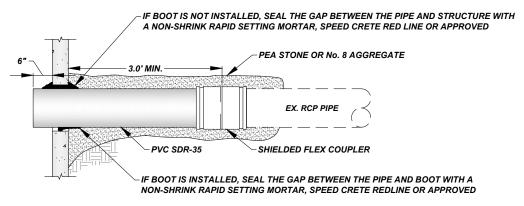
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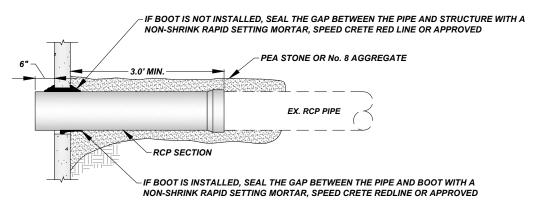
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1	03/27/2025					

Drafted By:	Approved By:
J. Hoffman	D. Sailor, P.E.
Drawing Numb	er:
SW	V-115



SHIELDED FLEX COUPLER CONNECTION



RCP BELL CONNECTION

NEW OR REPLACEMENT STRUCTURE INSTALLATION ON EXISTING RCP PIPE

NOT TO SCALE

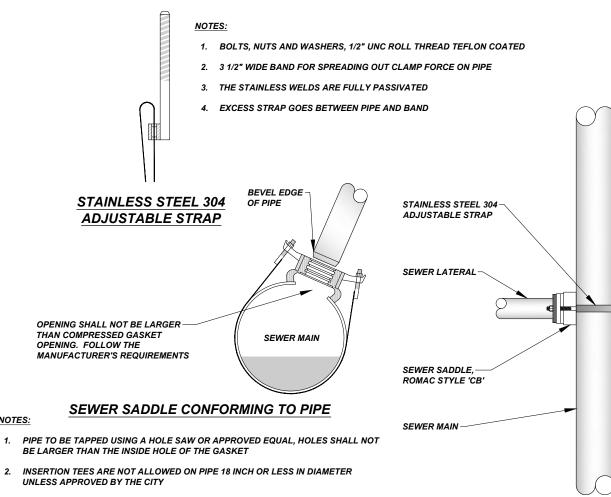
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1	03/27/2025					

7	Drafted By:	Approved By:
١	J. Hoffman	D. Sailor, P.E
- 1	Drawing Number:	
- 1	l SW.	116



NOTES:

- 3. LATERAL PIPE SHALL NOT PROTRUDE BEYOND INTERIOR WALL OF THE MAIN LINE
- 4. DETAIL SHOWS ROMAC BRAND. OTHER MANUFACTURERS MAY BE ACCEPTED BY CITY ENGINEERING DEPARTMENT UPON REVIEW OF MANUFACTURER'S SUBMITTAL

ROMAC 'CB' SEWER SADDLE

NOT TO SCALE

The City Of Goshen

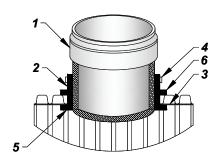
Department of Public Works & Safety Office of Engineering

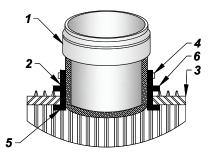
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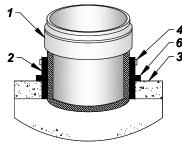
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3	03/27/2025					

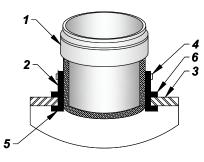
CITY OF GOSHEN, INDIANA STANDARD DETAIL

J. Hoffman D. Sailor, P.E. Drawing Number: SW-117









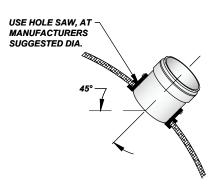
ADS PIPE
(WITH PERMISSION)



CONCRETE OR CLAY

SOLID WALL

PART #	DESCRIPTION
1	PVC HUB ADAPTER WHICH IS DRIVEN INTO THE CENTER OF THE RUBBER SLEEVE AFTER THE RUBBER SLEEVE IS IN THE HOLE
2	COMPLETE RUBBER SLEEVE CONSISTING OF ASTM F 477 SPECIFICATIONS
3	MAINLINE PIPE WALL WHERE BRANCH LINE IS CONNECTED
4	STAINLESS STEEL BAND, PUT ON ABOVE RUBBER SEGMENT AS AN ADDED PRECAUTION
5	RUBBER SEGMENT WHICH IS MOLDED INTO THE RUBBER SLEEVE. THIS PREVENTS SNAP OUT ON THE INSIDE OF THE DRILLED HOLE (PLASTIC PIPE ONLY) AND HELPS HOLD THE FITTING IN PLACE, NOT CREATING THE SEAL
6	RUBBER SEGMENT WHICH IS MOLDED INTO THE RUBBER SLEEVE. THIS PREVENTS THE RUBBER SLEEVE FROM GOING THROUGH THE DRILLED HOLE WHEN PVC HUB IS BEING DRIVEN INTO THE RUBBER SLEEVE



NOTES:

- 1. WATERTIGHT SEAL IS ACCOMPLISHED WHEN PVC HUB IS DRIVEN INTO RUBBER SLEEVE CAUSING THE RUBBER SLEEVE TO COMPRESS BETWEEN PIPE WALL AND PVC HUB
- 2. BACKFILL AROUND TEE WITH PEA STONE OR No. 8 AGGREGATE STONE TO PREVENT DAMAGE
- 4. DETAIL SHOWS ROMAC BRAND. OTHER MANUFACTURERS MAY BE ACCEPTED BY CITY ENGINEERING DEPARTMENT UPON REVIEW OF MANUFACTURER'S SUBMITTAL

INSERTA TEE (18" DIA. OR LARGER PIPE)

NOT TO SCALE

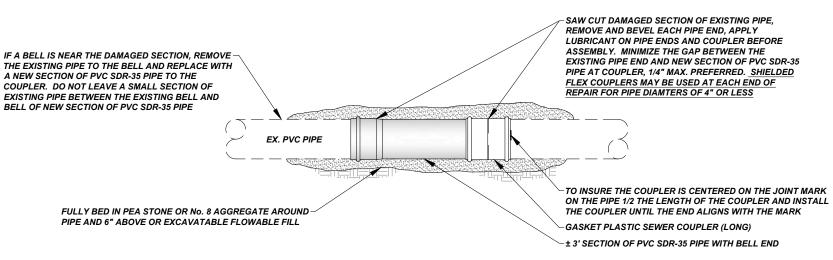
The City Of Goshen

Department of Public Works & Safety Office of Engineering

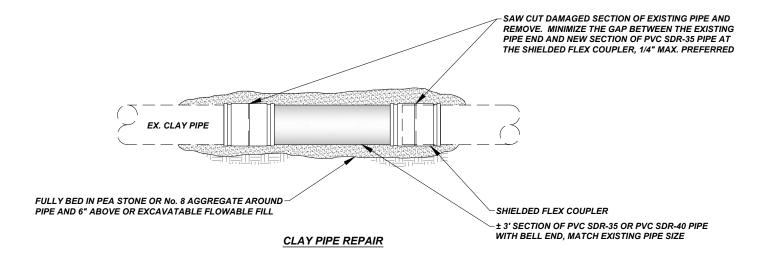
204 East Jefferson, Suite 1 Street, Goshen, Indiana 46528 Phone: 574-534-2201 Fax: 574-533-8626 Web: goshenindiana.org

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03/27/2025					

Drawing Number: SW-118				
J. Hoffman	D. Sailor, P.E.			
Drafted By:	Approved By:			



PVC PIPE REPAIR



PVC AND CLAY PIPE REPAIR

NOT TO SCALE

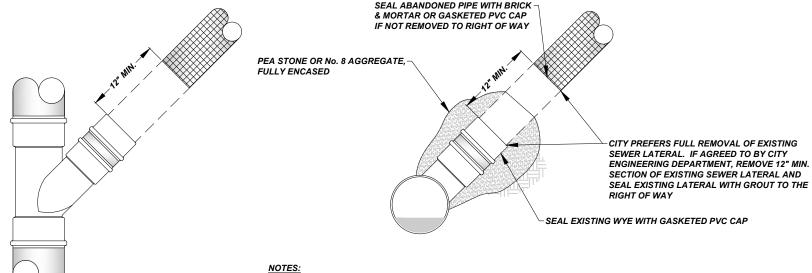
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Drafted By:	Approved By:			
J. Hoffman	D. Sailor, P.E.			
Drawing Number:				
SW-119				



PLAN VIEW

1. BACKFILL TRENCH WITH B-BORROW COMPACTED TO 95% MODIFIED PROCTOR

PROFILE VIEW

2. SEE ROADWAY PATCH DETAILS FOR REQUIREMENTS TO REPAIR ROADWAY

RETIREMENT OF PVC SEWER LATERAL

NOT TO SCALE

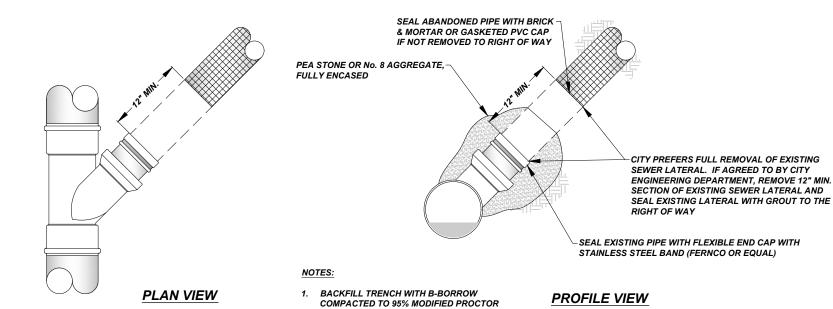
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ገ	Drafted By:	Approved By:			
١	J. Hoffman	D. Sailor, P.E			
- 1	Drawing Number:				
	SW-120				



2. SEE ROADWAY PATCH DETAILS FOR REQUIREMENTS TO REPAIR ROADWAY

RETIREMENT OF CLAY SEWER LATERAL

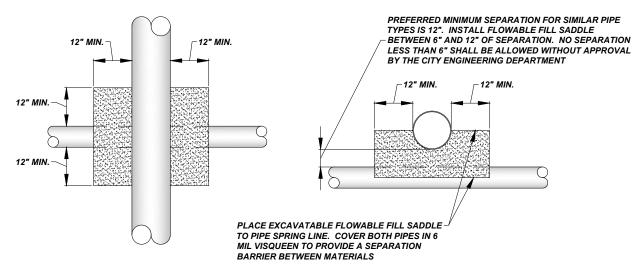
NOT TO SCALE

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CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By: Approved By:
J. Hoffman Drawing Number:
SW-121



PLAN VIEW

PROFILE VIEW

FLOWABLE FILL PIPE SADDLE

NOT TO SCALE

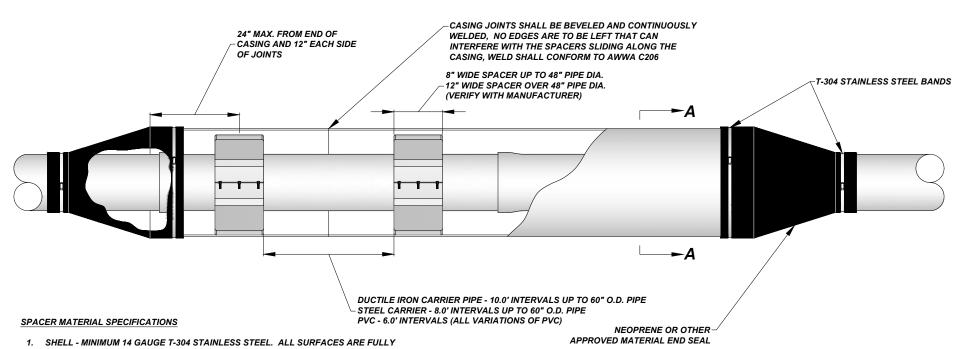
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Drawing Number:
SW-122



CHEMICALLY PASSIVATED. FLANGES ARE RIBBED FOR STRENGTH

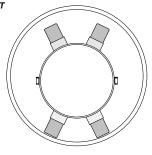
2. RISERS - MAXIMUM 10 GAUGE T-304 STAINLESS STEEL, REINFORCED 6" AND OVER IN HEIGHT

3. FASTENERS - 5/16 - 18 T-304 STAINLESS STEEL

4. LINER - PVC, 0.90 THICK, 85-90 DUROMETER (ASTM D1706 - 61T)
MAX. CONSTANT OPERATING TEMPERATURE - 150 DEGREES (F)
ELECTRICAL PROPERTIES - (ASTM - D149 - 61) 1380 V/min.
RESISTANCE - SALT SPRAY (ASTM - B117) EXCELLENT
- ACIDS GOOD

5. RUNNERS - ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE LOW COEFFICIENT OF FRICTION HIGH RESISTANCE TO ABRASION AND SLIDING WEAR TOUGHNESS UNDER IMPACT LOW DEFLECTION UNDER COMPRESSION DIELECTRIC INSULATION

CASCADE CASING SPACERS MODEL CCS AS MANUFACTURED BY CASCADE WATERWORKS MFG. OR APPROVED EQUAL



SECTION A-A

NOTES:

- 1. SUBMIT SHOP DRAWINGS TO THE CITY ENGINEERING DEPARTMENT FOR APPROVAL
- 2. ALL CHANGES TO MATERIALS OR MODIFICATIONS TO PLANS MUST BE PRE-APPROVED BY THE CITY ENGINEERING DEPARTMENT
- 3. RECORD DRAWING SHALL INCLUDE ELEVATION AT EACH END OF THE PIPE AND CASING, LOCATION OF EACH OF THE CASING, CASING LENGTH, SIZE, TYPE, A PROFILE DRAWING OF THE CASING CONTAINING THE ABOVE INFORMATION. INCLUDE ANY SPECIAL CONDITIONS OR NOTES

STORM SEWER CASING

NOT TO SCALE

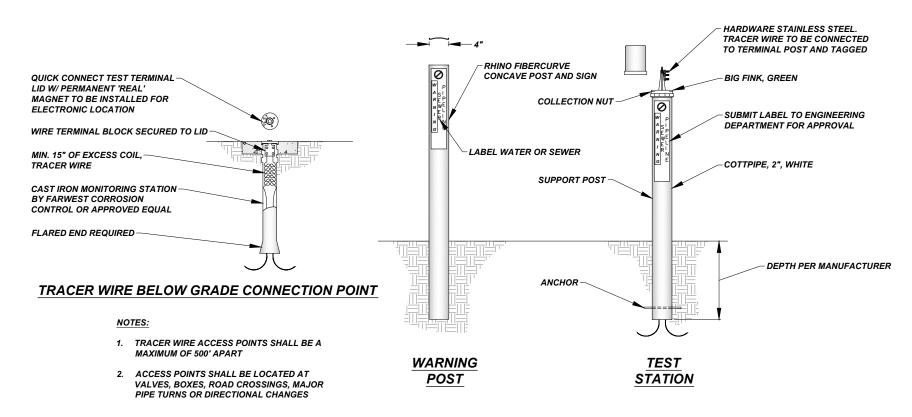
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١	J. Hoffman	D. Sailor, P.E.			
ı	Drawing Number:				
I	SW-123				



BURIED UTILITY WARNING POST & TEST STATION

NOT TO SCALE

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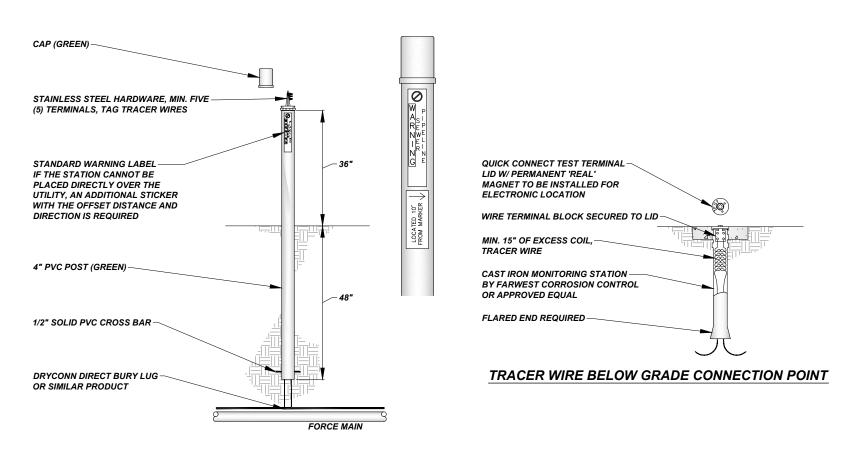
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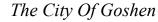
Drawing Number:

SW-124



FORCE MAIN LOCATION STATION

NOT TO SCALE

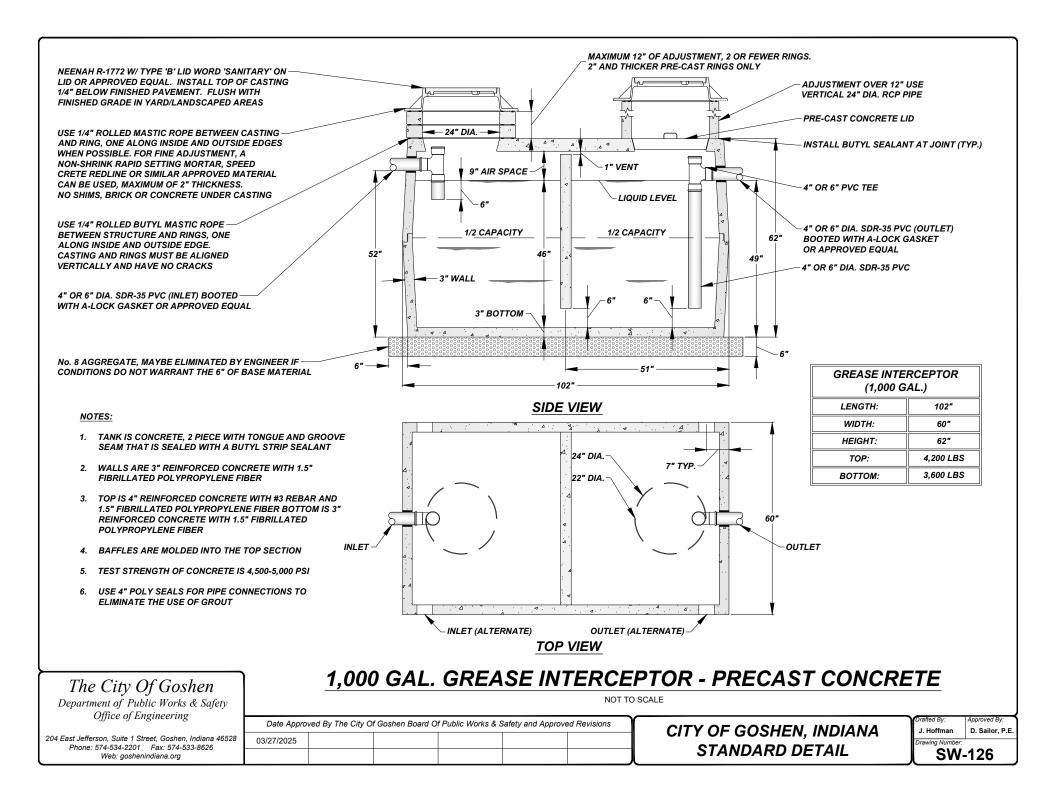


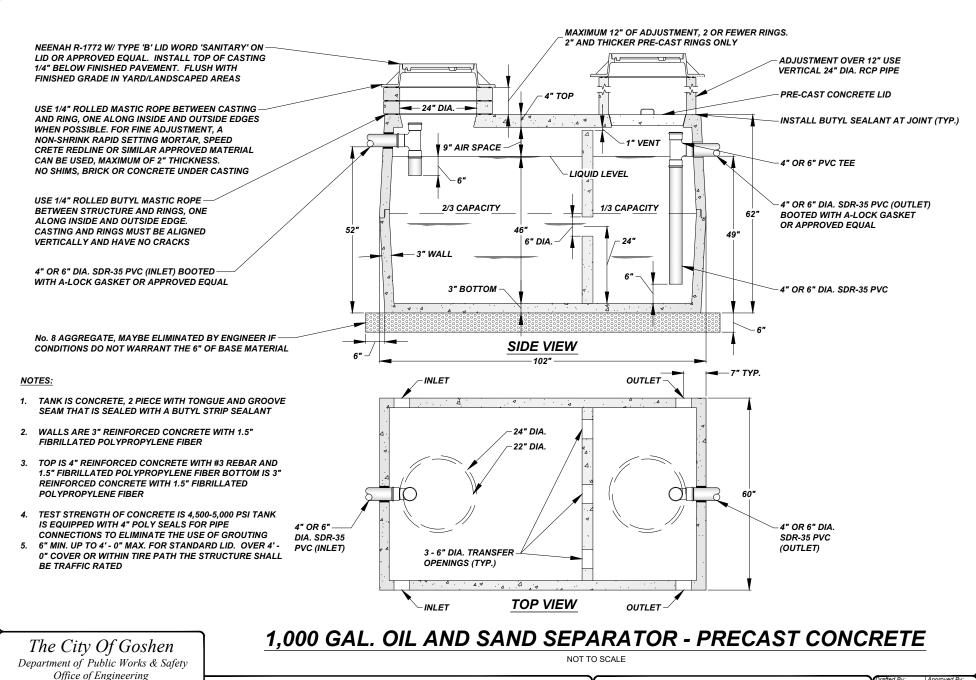
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J. Ho	offman	D. Sailor, P.E.			
Drawin	Drawing Number:				
	SW-125				

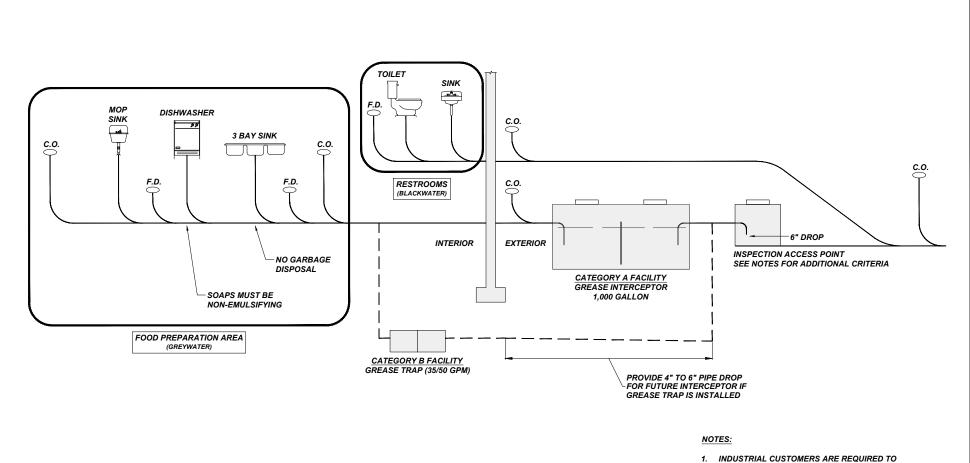




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CITY OF GOSHEN, INDIANA STANDARD DETAIL J. Hoffman
Drawing Number:

SW-127



- INDUSTRIAL CUSTOMERS ARE REQUIRED TO
 INSTALL AN INSPECTION MANHOLE AT THE RIGHT
 OF WAY TO ALLOW FOR COMPOSITE SAMPLING
- 2. COMMERCIAL FOOD SERVICE CUSTOMERS MAY INSTALL A SIMPLE MANHOLE OR SAMPLE PORT TO ALLOW FOR GRAB SAMPLING

GREASE INTERCEPTOR DIAGRAM

NOT TO SCALE

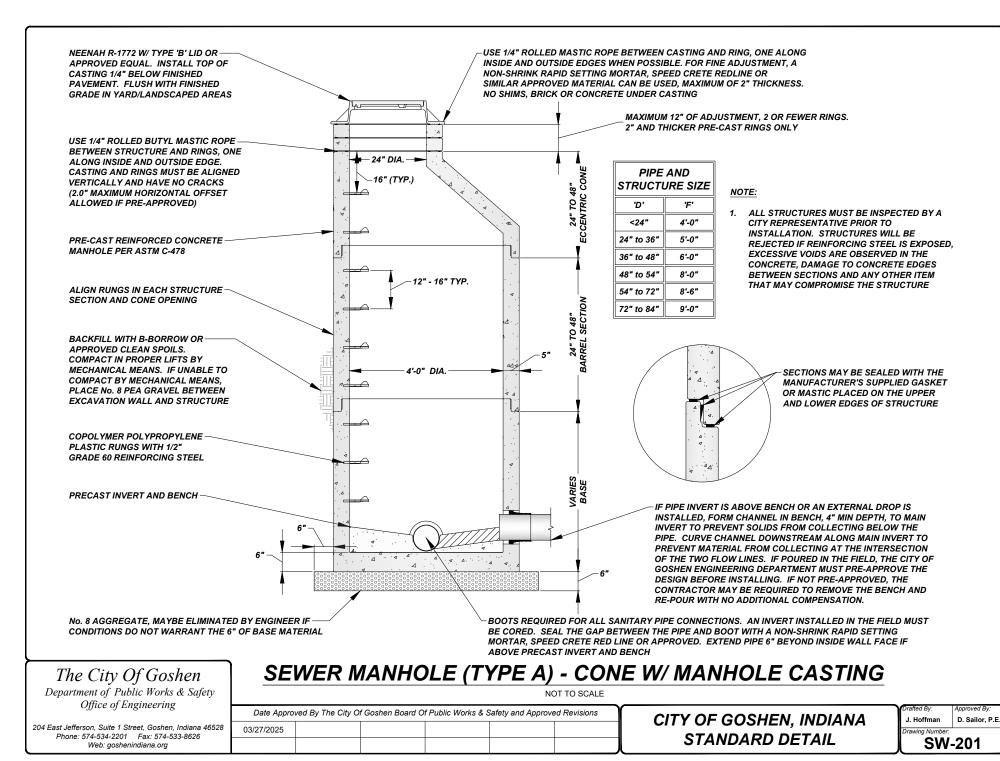
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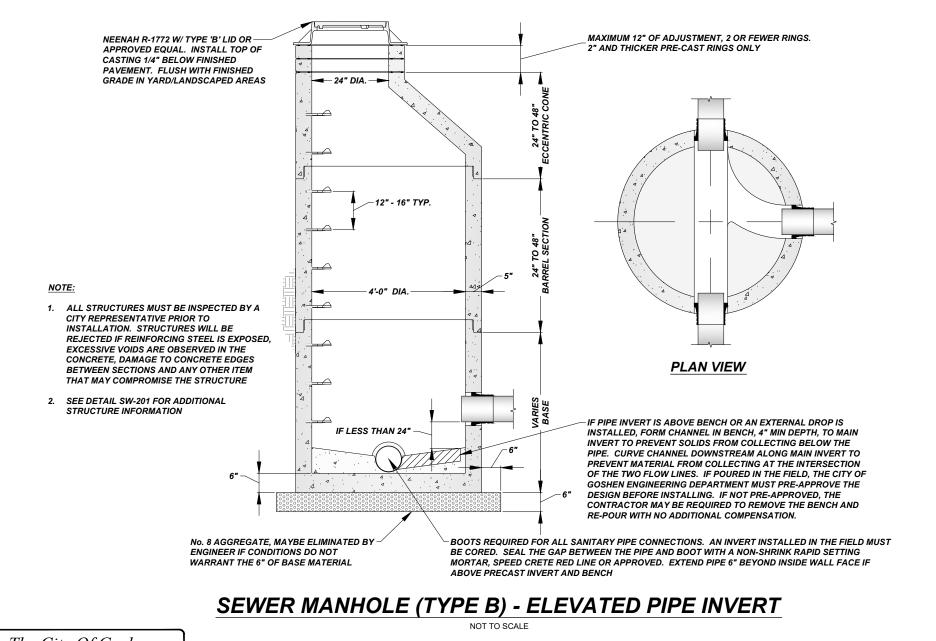
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٦	Drafted By:	Approved By:		
١	J. Hoffman	D. Sailor, P.E.		
ı	Drawing Number:			
SW-128				





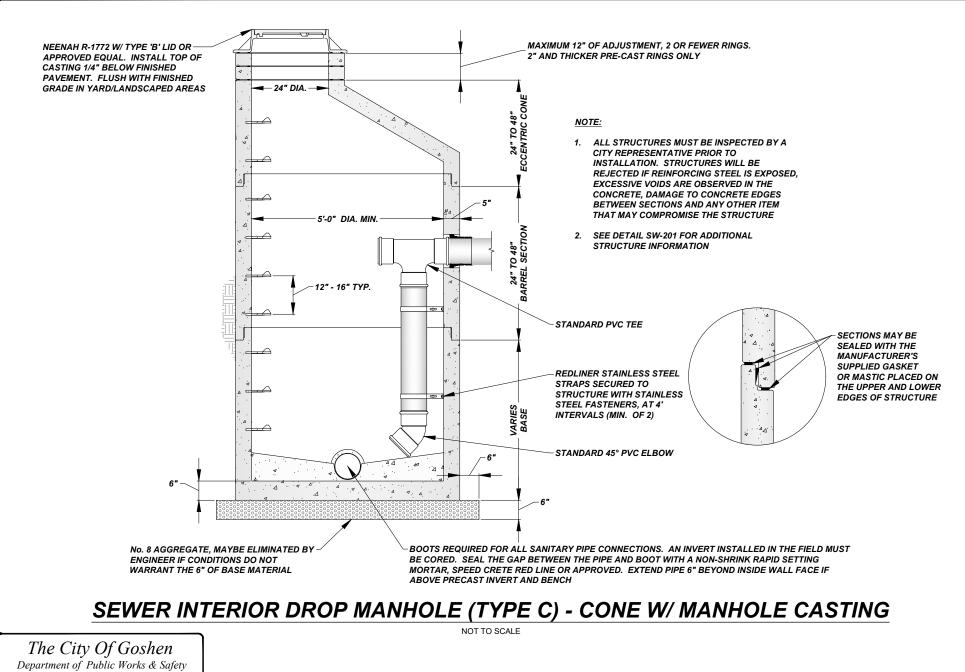
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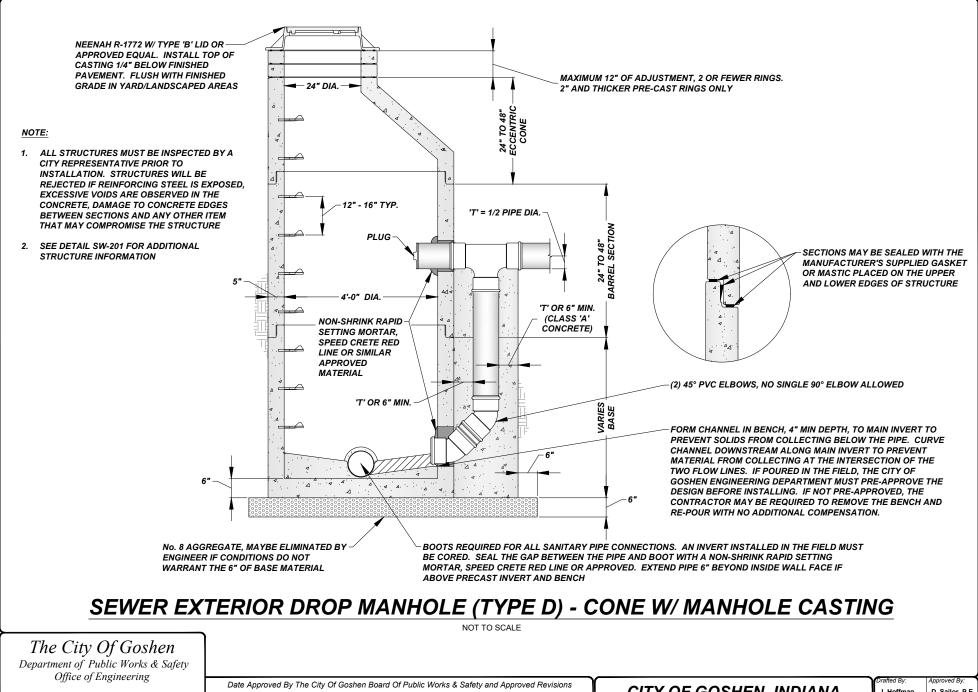
Drawing Number: SW-202			
J. Hoffman	D. Sailor, P.E.		
Drafted By:	Approved By:		
One first Day	A		



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CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By:
J. Hoffman
Drawing Number:
SW-203



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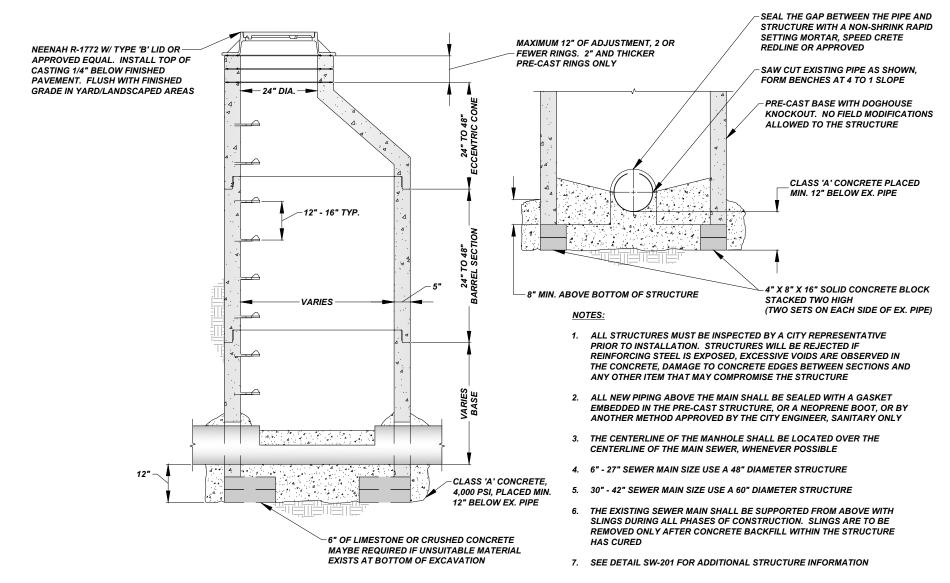
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CITY OF GOSHEN, INDIANA STANDARD DETAIL J. Hoffman D. Sailor, P.E.

Drawing Number:

SW-204



SEWER DOGHOUSE MANHOLE (TYPE E) - CONE W/ MANHOLE CASTING

NOT TO SCALE

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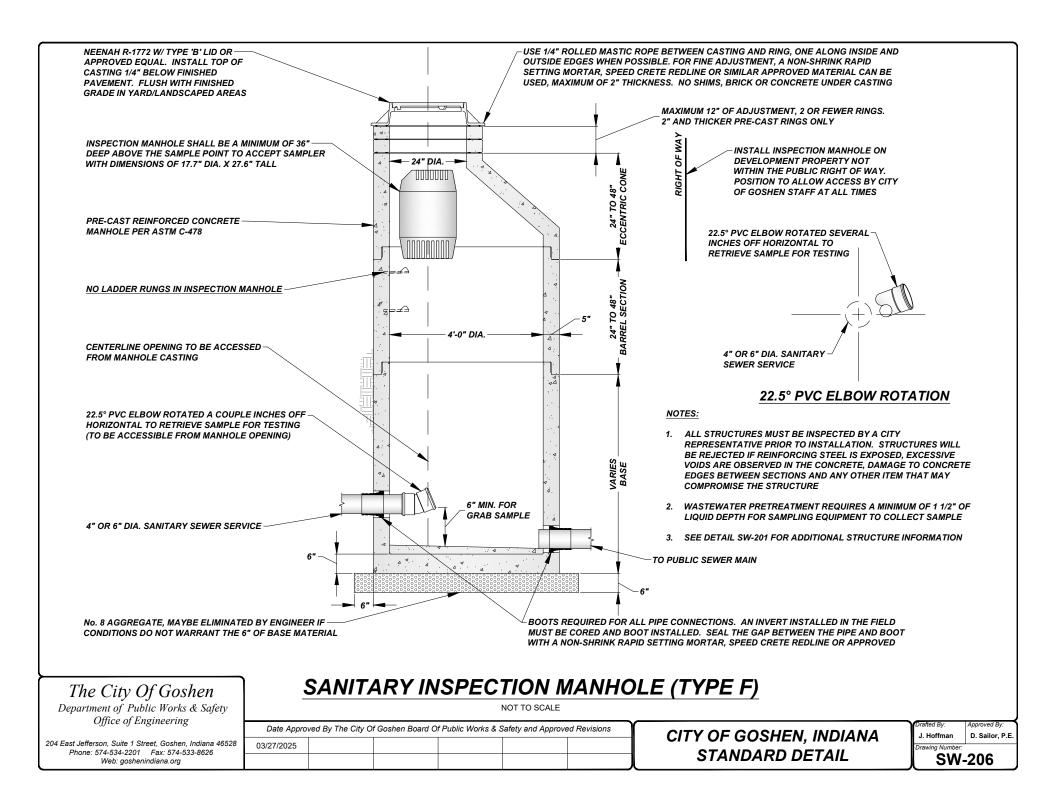
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· [03/27/2025					

CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By:

J. Hoffman

Drawing Number:

SW-205





- 4" PLAIN END INLET/OUTLET
- FIELD MODIFIABLE TO 6" PLAIN END INLET/OUTLET
- UNIT WEIGHT 9 LBS.
- MAXIMUM OPERATING TEMPERATURE: 150° F CONTINUOUS
- OFFSET CONNECTIONS
- 6. 2 ROLLS OF 33" X 2" BUTYL MASTIC TAPE PROVIDED FOR SEALING BUILD-YOUR-OWN RISER JOINTS

ENGINEERING SPECIFICATION GUIDE:

SCHIER SEWER VIEWER SAMPLING PORT MODEL# SV 10 SHALL BE LIFETIME GUARANTEED AND MADE IN USA OF SEAMLESS, ROTATIONALLY-MOLDED POLYETHYLENE. SAMPLING PORT SHALL BE FURNISHED FOR ABOVE OR BELOW GRADE INSTALLATION. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY

ACCESSORIES:

FIELD CUT RISER FOR EXTENDING COVER TO GRADE

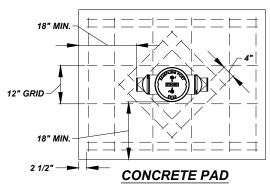
1. VEHICULAR TRAFFIC AREA - MIN. 8" W/ REBAR

CONNECTED WITH TIE WIRE

NO. 4 REBAR, GRADE 60 STEEL PER ASTM A615,

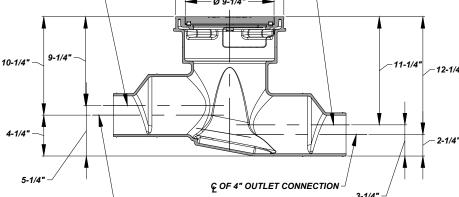
PEDESTRIAN OR GREENSPACE - MIN. 4" W/ REBAR

PRODUCT AND INSTALLATION DETAIL SOURCE:



WWW.SCHIERPRODUCTS.COM

G OF 6" INLET CONNECTION

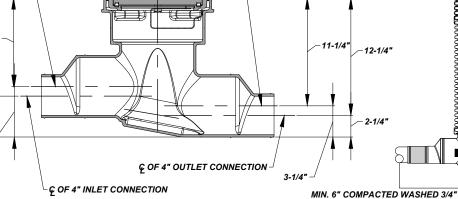


SECTION VIEW A-A

CUT LINES FOR 6" CONNECTION-FIELD MODIFICATION

TOP VIEW

24-1/4"



AGGREGATE OR CLEAN SAND

MAX. THREE RISERS (94")

Ø 11-3/4"

ڀ OF 6" OUTLET CONNECTION

FLEXIBLE PVC COUPLER (SHIELDED) -

3. CONCRETE, 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS

SCHIER SV 10 SEWER VIEWER SAMPLING PORT (TYPE G)

NOT TO SCALE

The City Of Goshen

NOTES:

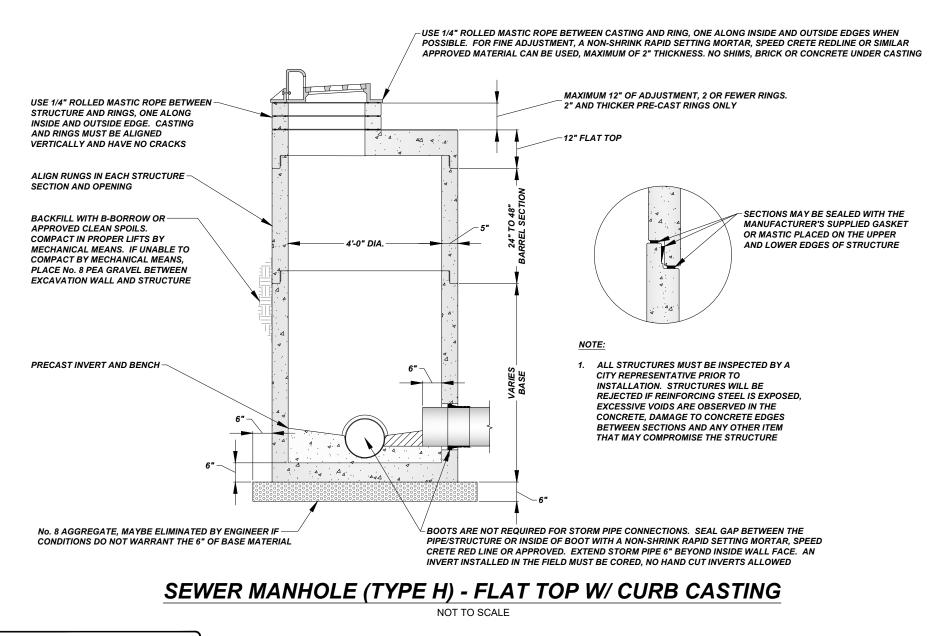
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CITY OF GOSHEN, INDIANA STANDARD DETAIL

J. Hoffman D. Sailor, P.E. Drawing Number SW-207



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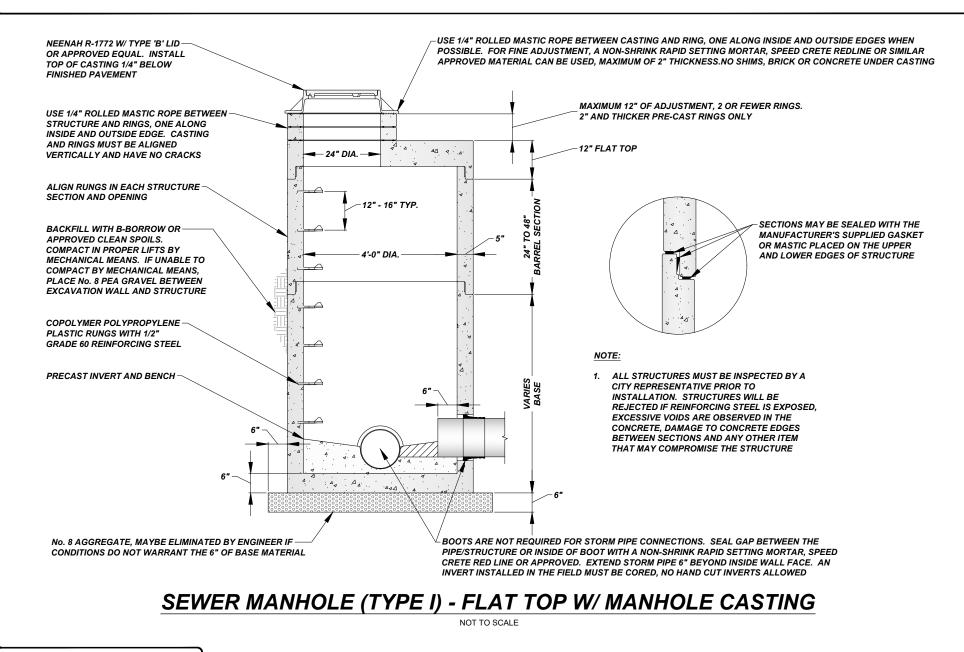
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CITY OF GOSHEN, INDIANA STANDARD DETAIL Drafted By: Approved By:

J. Hoffman
Drawing Number:

SW-208

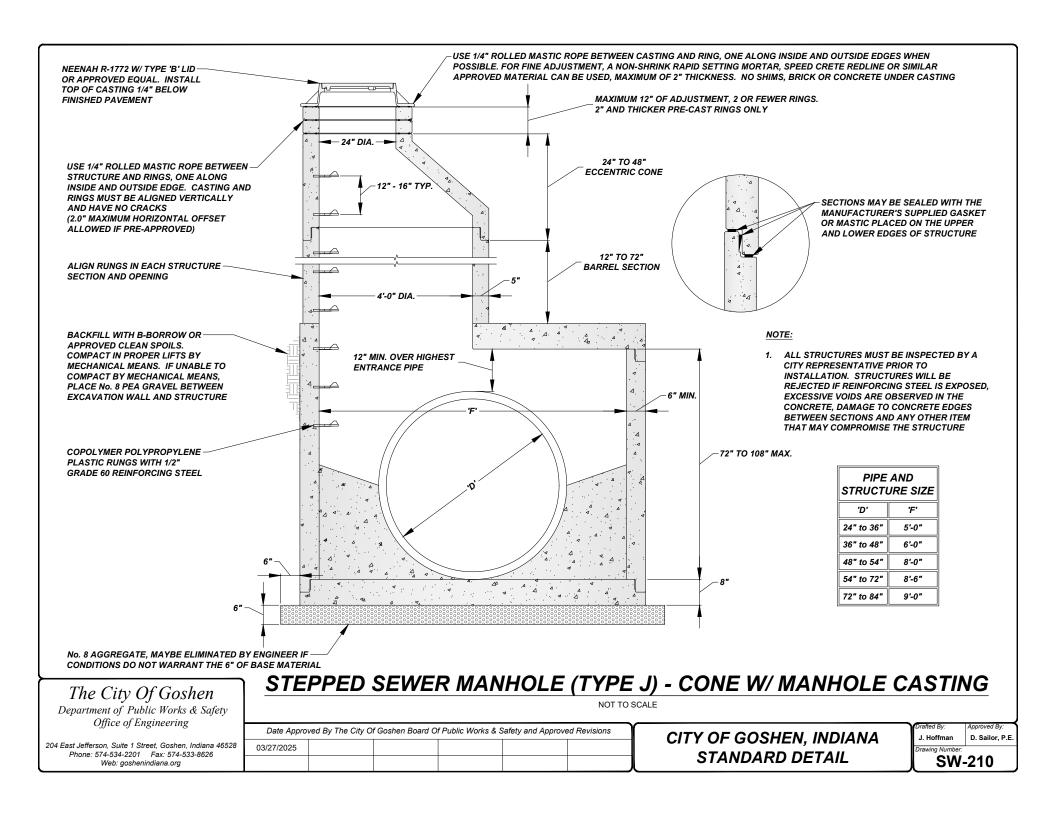


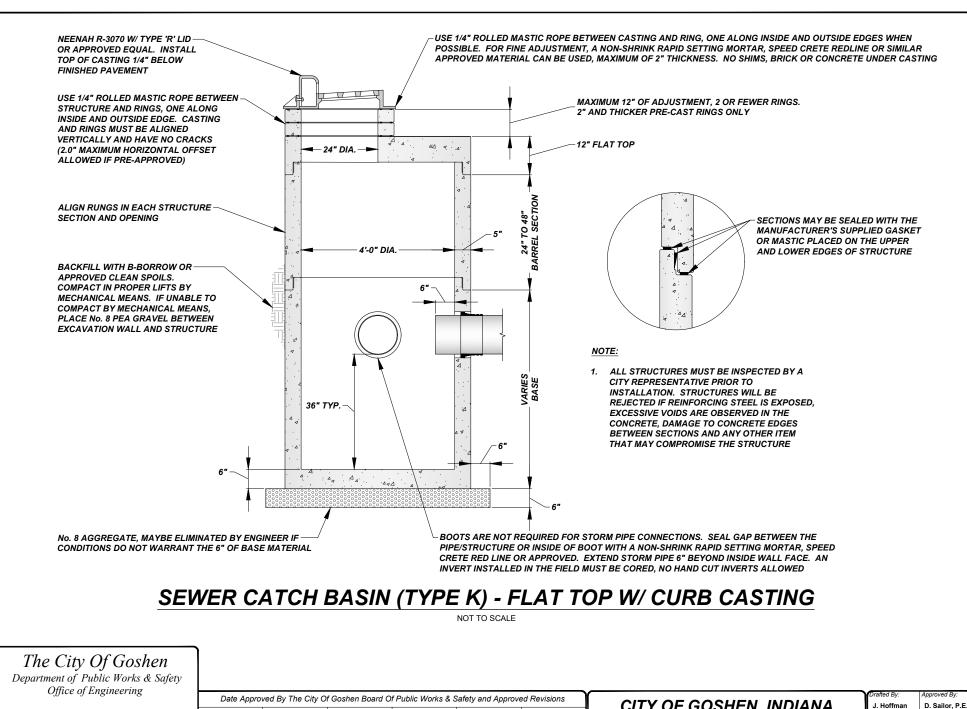
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J. Hoffman	D. Sailor, P.E.				
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∥ SW-	SW-209				



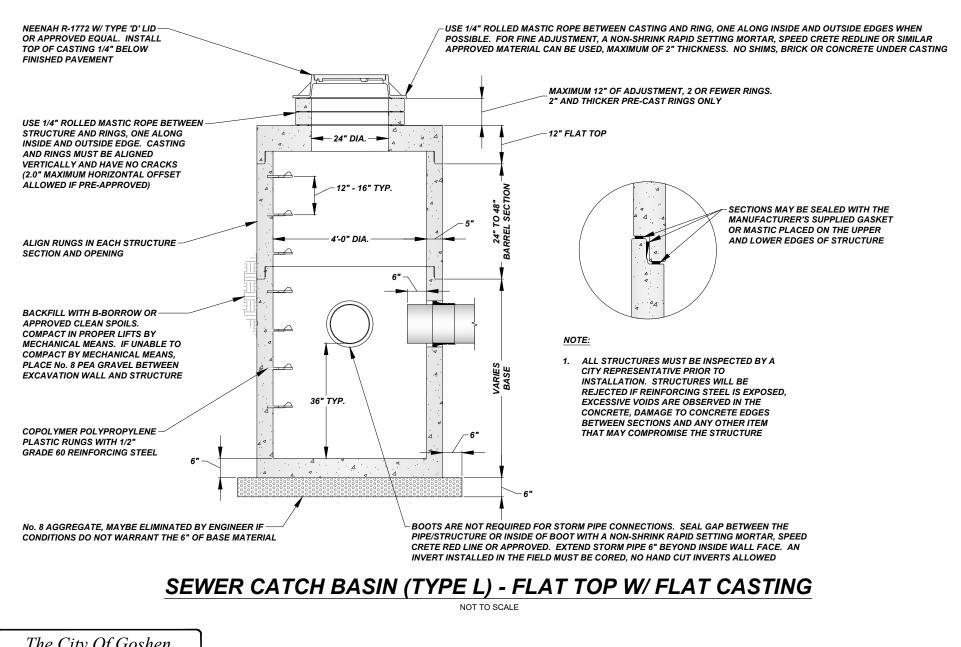


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CITY OF GOSHEN, INDIANA STANDARD DETAIL

SW-211



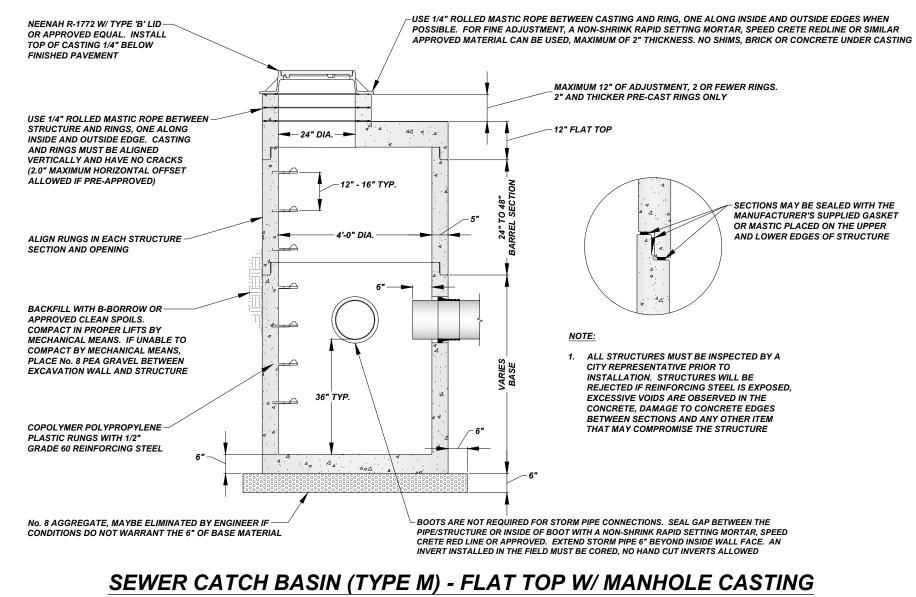
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CITY OF GOSHEN, INDIANA STANDARD DETAIL

J. Hoffman D. Sailor, P.E. Drawing Number SW-212



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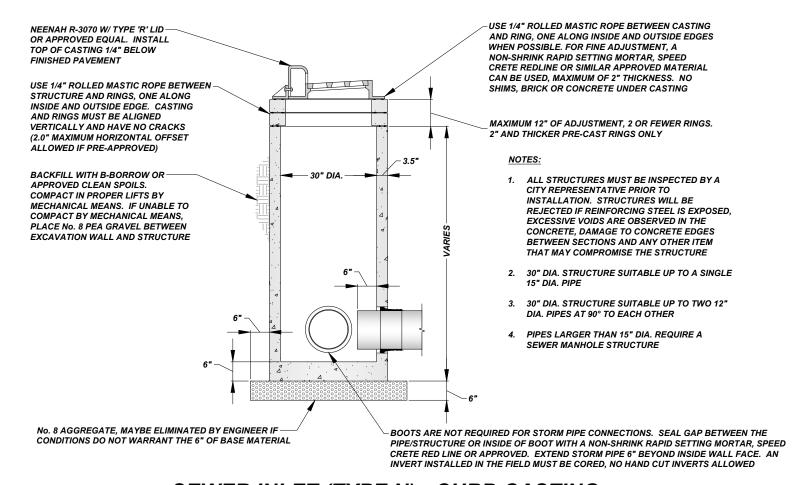
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3	03/27/2025						

7	Drawing Number: SW-213				
1	J. Hoffman	D. Sailor, P.E.			
Υ	Drafted By:	Approved By:			



SEWER INLET (TYPE N) - CURB CASTING

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety Office of Engineering

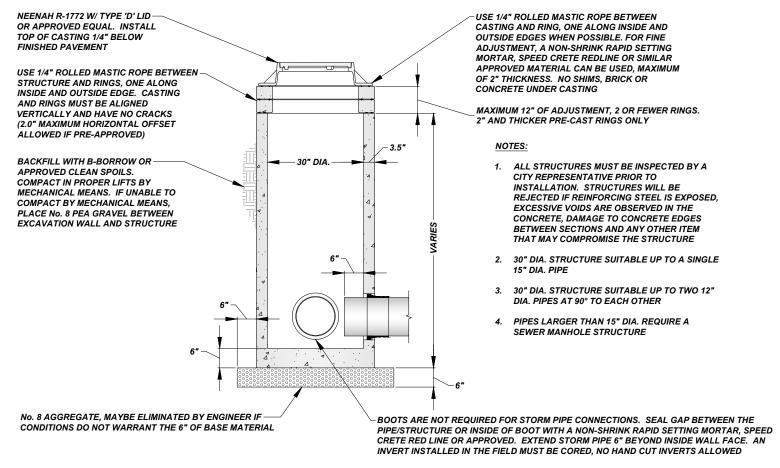
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CITY OF GOSHEN, INDIANA STANDARD DETAIL J. Hoffman

Drawing Number:

SW-214



SEWER INLET (TYPE O) - FLAT CASTING

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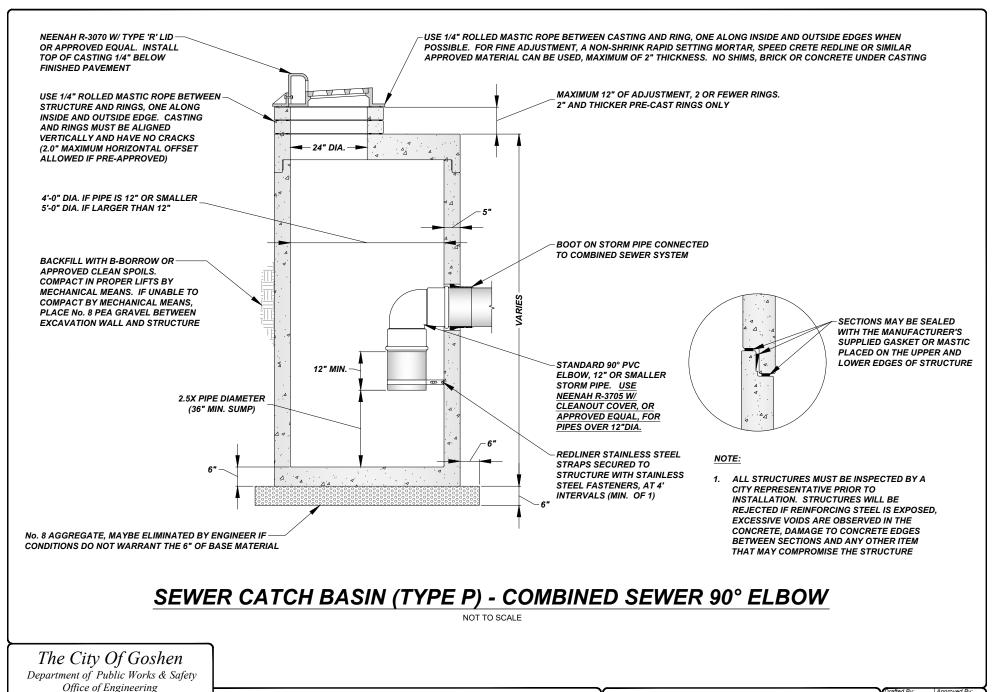
J. Hoffman

Drawing Number:

Approved By:

D. Sailor, P.E.

SW-215

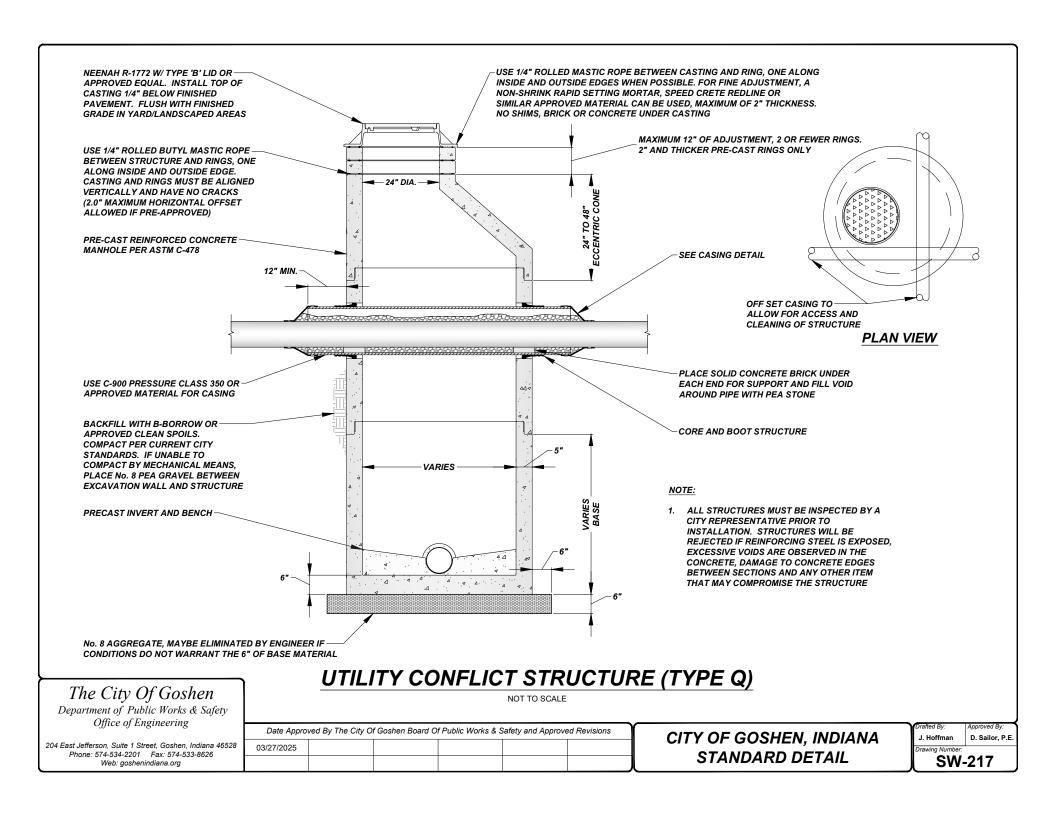


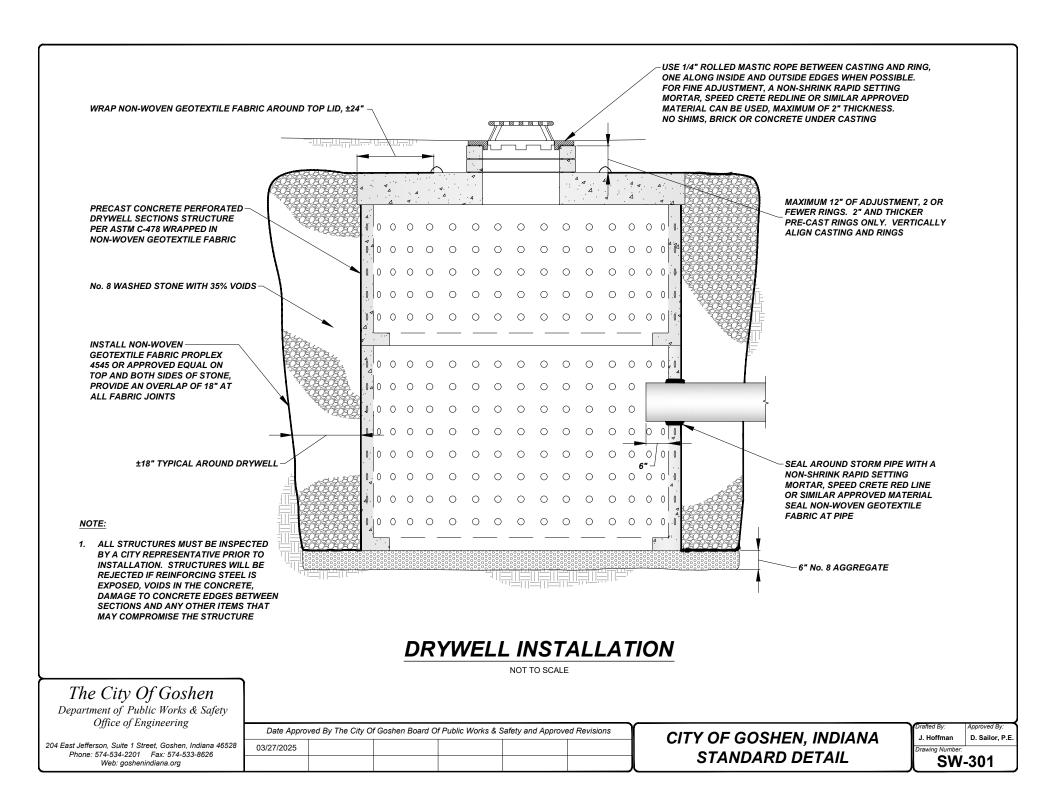
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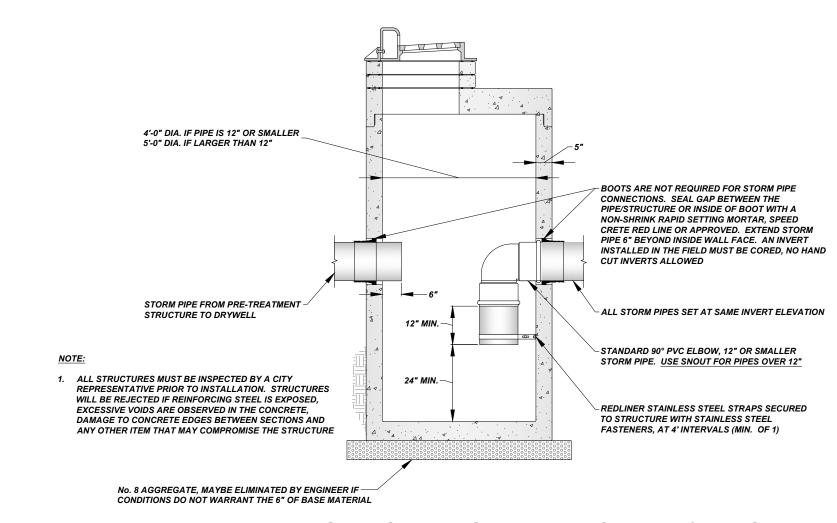
J. Hoffman D. Sailor, P.E. Drawing Number SW-216

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03/27/2025







PRE-TREATMENT STRUCTURE (STANDARD CB W/ 90° ELBOW)

NOT TO SCALE

The City Of Goshen

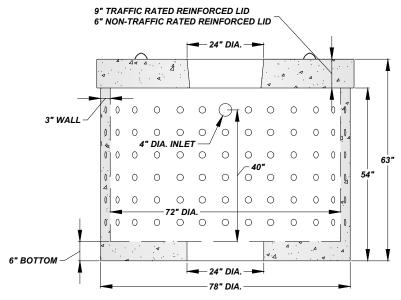
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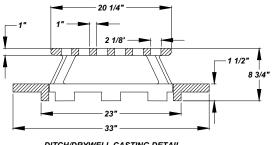
Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions

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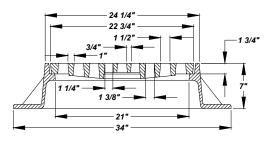
CITY OF GOSHEN, INDIANA STANDARD DETAIL



- 1. DRYWELL IS CONCRETE AND REINFORCED WITH #2 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 2. WALLS ARE 3" THICK CONCRETE
- 3. LID: 9" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER 6" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 4. BASE IS MONOLITHICALLY POURED INTO BOTTOM OF THE DRYWELL
- 5. 4,500 PSI TO 5,000 PSI CONCRETE
- 6. WEIGHTS: LID(9") = 3,500 LBS, RING = 3,400 LBS
- 7. INSTALL 6" CONCRETE ADJUSTING RING UNDER CASTING TO ALLOW FOR TOPSOIL AND GRASS SEED OUTSIDE HARD SURFACE AREAS. INSTALL PER STORM/SANITARY MANHOLE DETAIL WITHIN HARD SURFACE AREAS. USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND ADJUSTING RING OR A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR SIMILAR APPROVED MATERIAL WITH A MAXIMUM OF 1" THICKNESS. NO SHIMS, BRICK, OR BLOCKING SHALL BE PLACED



DITCH/DRYWELL CASTING DETAIL
NEENAH R-4341-A



STORM FLAT ROUND GRATE CASTING DETAIL
NEENAH R-1772 W/ TYPE 'D'

NOTE:

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE

900 GAL. DRYWELL WITH BASE

NOT TO SCALE

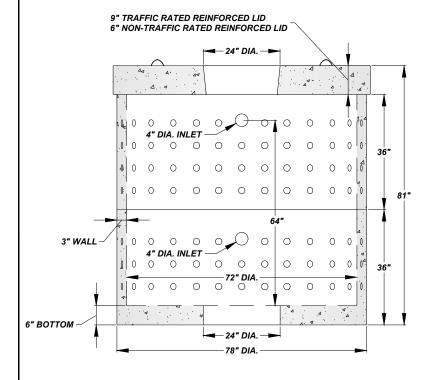
The City Of Goshen

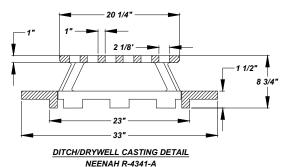
Department of Public Works & Safety
Office of Engineering

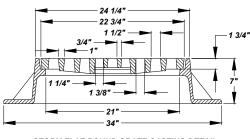
204 East Jefferson, Suite 1 Street, Goshen, Indiana 46528 Phone: 574-534-2201 Fax: 574-533-8626 Web: goshenindiana.org

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	03/27/2025					

Drafted By:	Approved By:
J. Hoffman	D. Sailor, P.E.
Drawing Number:	
SW-	-303







STORM FLAT ROUND GRATE CASTING DETAIL
NEENAH R-1772 W/ TYPE 'D'

- 1. DRYWELL IS CONCRETE AND REINFORCED WITH #2 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 2. WALLS ARE 3" THICK CONCRETE
- 3. LID: 9" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER 6" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 4. BASE IS MONOLITHICALLY POURED INTO BOTTOM OF THE DRYWELL
- 5. 4,500 PSI TO 5,000 PSI CONCRETE
- 6. WEIGHTS: LID(9") = 3,500 LBS, RING = 1,900 LBS, RING W/ BASE = 3,400 LBS
- 7. INSTALL 6" CONCRETE ADJUSTING RING UNDER CASTING TO ALLOW FOR TOPSOIL AND GRASS SEED OUTSIDE HARD SURFACE AREAS. INSTALL PER STORM/SANITARY MANHOLE DETAIL WITHIN HARD SURFACE AREAS. USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND ADJUSTING RING OR A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR SIMILAR APPROVED MATERIAL WITH A MAXIMUM OF 1" THICKNESS. NO SHIMS, BRICK, OR BLOCKING SHALL BE PLACED

NOTE:

1,200 GAL. DRYWELL WITH BASE

NOT TO SCALE

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE

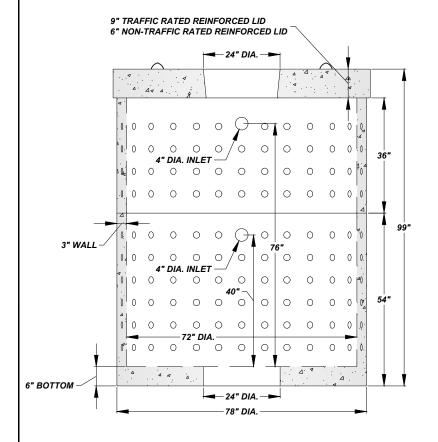
The City Of Goshen

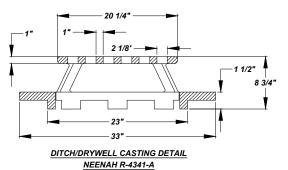
Department of Public Works & Safety
Office of Engineering

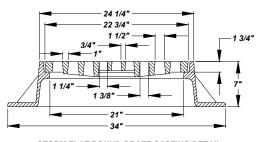
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03/27/2025						

CITY OF GOSHEN, INDIANA STANDARD DETAIL







STORM FLAT ROUND GRATE CASTING DETAIL
NEENAH R-1772 W/ TYPE 'D'

NOTE:

1. INCLUDE STREAM WARNING

NOTES:

- 1. DRYWELL IS CONCRETE AND REINFORCED WITH #2 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 2. WALLS ARE 3" THICK CONCRETE
- 3. LID: 9" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
 6" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 4. BASE IS MONOLITHICALLY POURED INTO BOTTOM OF THE DRYWELL
- 5. 4,500 PSI TO 5,000 PSI CONCRETE
- 6. WEIGHTS: LID(9") = 3,500 LBS, RING = 1,900 LBS, RING W/ BASE = 3,400 LBS
- 7. INSTALL 6" CONCRETE ADJUSTING RING UNDER CASTING TO ALLOW FOR TOPSOIL AND GRASS SEED OUTSIDE HARD SURFACE AREAS. INSTALL PER STORM/SANITARY MANHOLE DETAIL WITHIN HARD SURFACE AREAS. USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND ADJUSTING RING OR A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR SIMILAR APPROVED MATERIAL WITH A MAXIMUM OF 1" THICKNESS. NO SHIMS, BRICK, OR BLOCKING SHALL BE PLACED

NOTE:

1,500 GAL. DRYWELL WITH BASE

NOT TO SCALE

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE

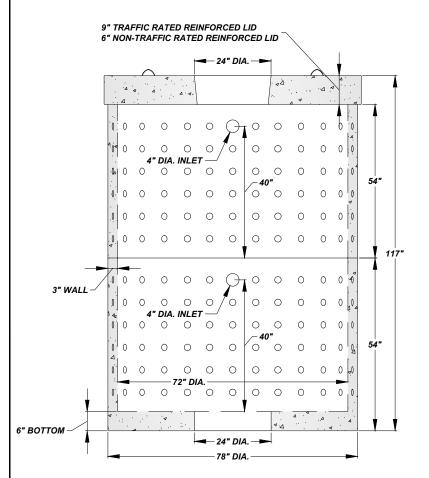
The City Of Goshen

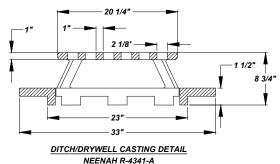
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Office of Engineering

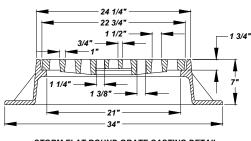
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CITY OF GOSHEN, INDIANA STANDARD DETAIL







STORM FLAT ROUND GRATE CASTING DETAIL
NEENAH R-1772 W/ TYPE 'D'

- DRYWELL IS CONCRETE AND REINFORCED WITH #2 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 2. WALLS ARE 3" THICK CONCRETE
- 3. LID: 9" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
 6" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 4. BASE IS MONOLITHICALLY POURED INTO BOTTOM OF THE DRYWELL
- 5. 4,500 PSI TO 5,000 PSI CONCRETE
- 6. WEIGHTS: LID(9") = 3,500 LBS, RING = 2,900 LBS, RING W/ BASE = 3,400 LBS
- 7. INSTALL 6" CONCRETE ADJUSTING RING UNDER CASTING TO ALLOW FOR TOPSOIL AND GRASS SEED OUTSIDE HARD SURFACE AREAS. INSTALL PER STORM/SANITARY MANHOLE DETAIL WITHIN HARD SURFACE AREAS. USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND ADJUSTING RING OR A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR SIMILAR APPROVED MATERIAL WITH A MAXIMUM OF 1" THICKNESS. NO SHIMS, BRICK, OR BLOCKING SHALL BE PLACED

NOTE:

1,800 GAL. DRYWELL WITH BASE

NOT TO SCALE

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY
REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES
WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED,
EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE,
DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND
ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE

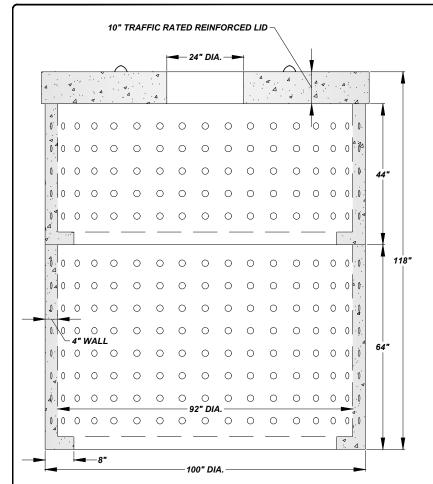
The City Of Goshen

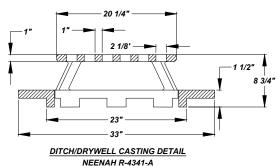
Department of Public Works & Safety
Office of Engineering

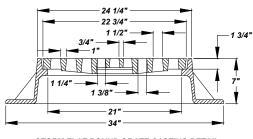
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03/27/2025					

Drafted By:	Approved By:			
J. Hoffman	D. Sailor, P.E.			
Drawing Number:				
SW-306				







STORM FLAT ROUND GRATE CASTING DETAIL
NEENAH R-1772 W/ TYPE 'D'

- DRYWELL IS CONCRETE AND REINFORCED WITH #2 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 2. WALLS ARE 4" THICK CONCRETE
- 3. LID: 10" REINFORCED WITH #4 REBAR AND 1.5" FIBRILLATED POLYPROPYLENE FIBER
- 4. BASE IS MONOLITHICALLY POURED INTO BOTTOM OF THE DRYWELL
- 5. 4,500 PSI TO 5,000 PSI CONCRETE
- 6. WEIGHTS: LID(10") = 6,300 LBS, RING(64") = 6,500 LBS, RING(44") = 4,500 LBS
- 7. INSTALL 6" CONCRETE ADJUSTING RING UNDER CASTING TO ALLOW FOR TOPSOIL AND GRASS SEED OUTSIDE HARD SURFACE AREAS. INSTALL PER STORM/SANITARY MANHOLE DETAIL WITHIN HARD SURFACE AREAS. USE 1/4" ROLLED MASTIC ROPE BETWEEN CASTING AND ADJUSTING RING OR A NON-SHRINK RAPID SETTING MORTAR, SPEED CRETE RED LINE OR SIMILAR APPROVED MATERIAL WITH A MAXIMUM OF 1" THICKNESS. NO SHIMS, BRICK, OR BLOCKING SHALL BE PLACED

NOTE:

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, EXCESSIVE VOIDS ARE OBSERVED IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEM THAT MAY COMPROMISE THE STRUCTURE

3,050 GAL. DRYWELL WITH BASE

NOT TO SCALE

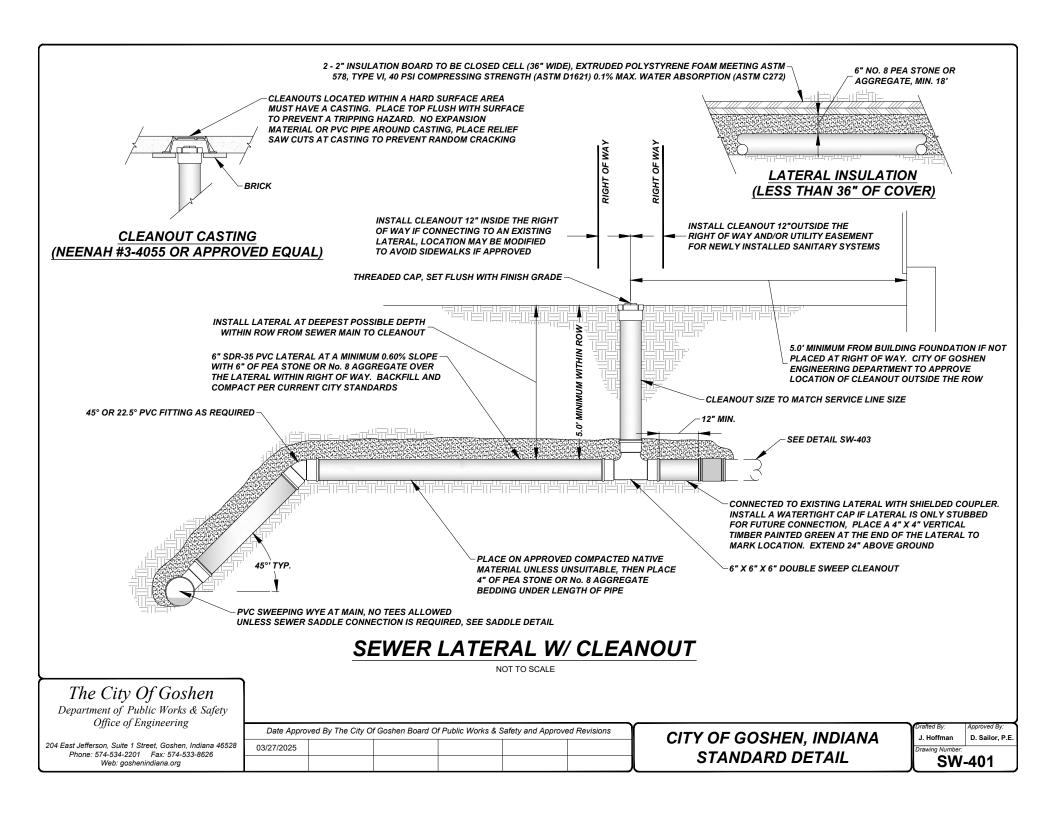
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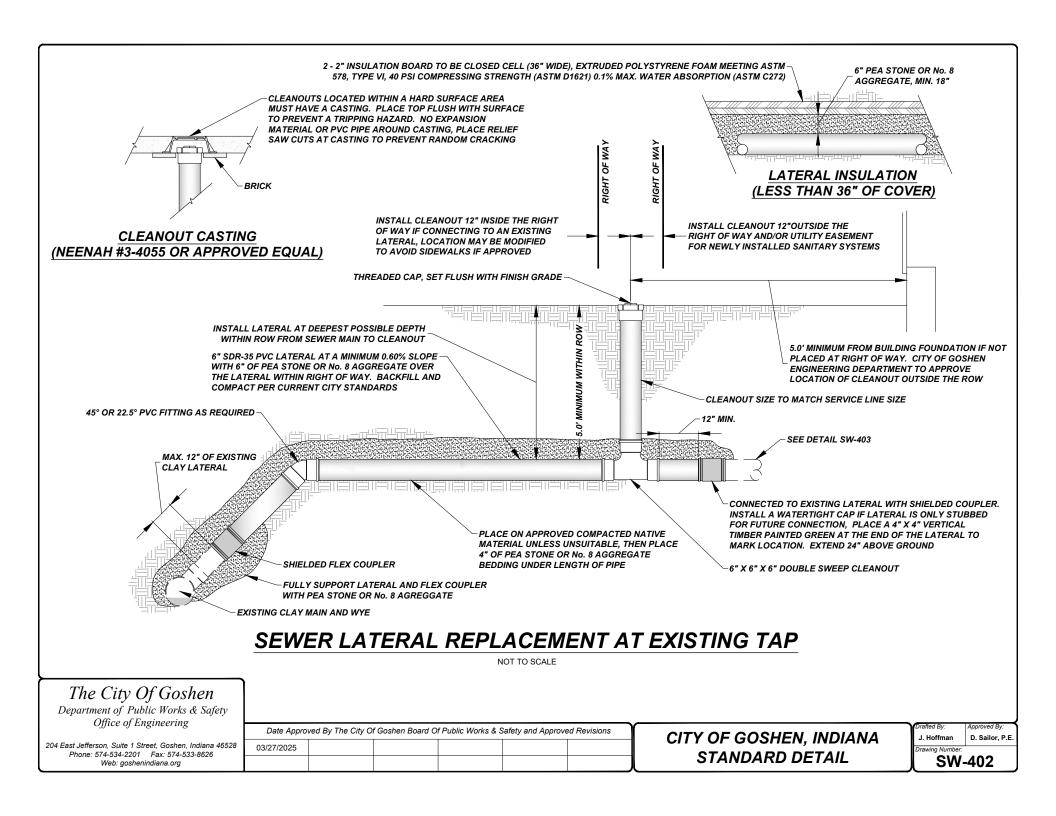
Department of Public Works & Safety
Office of Engineering

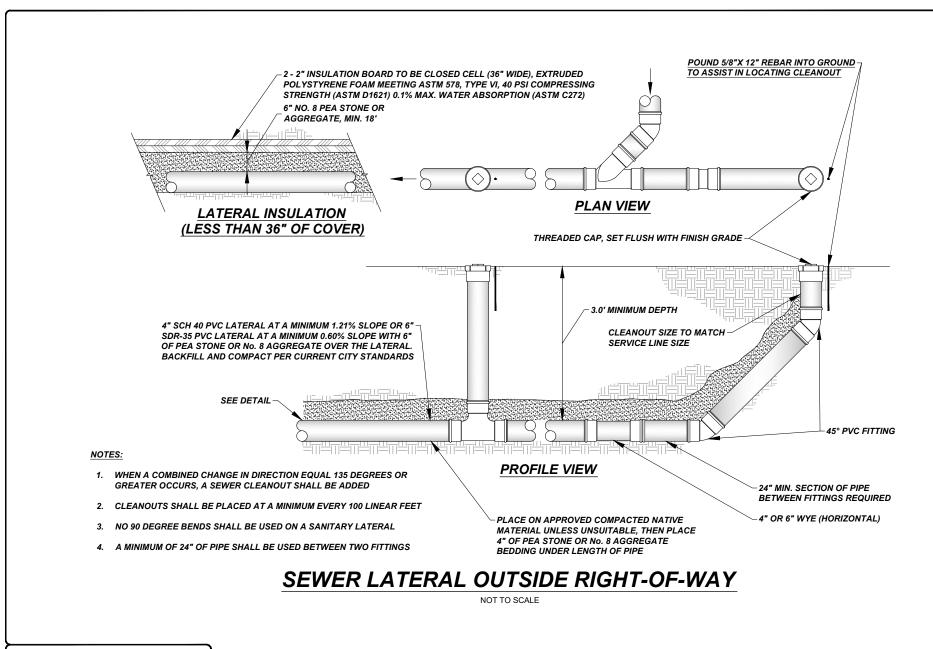
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CITY OF GOSHEN, INDIANA STANDARD DETAIL



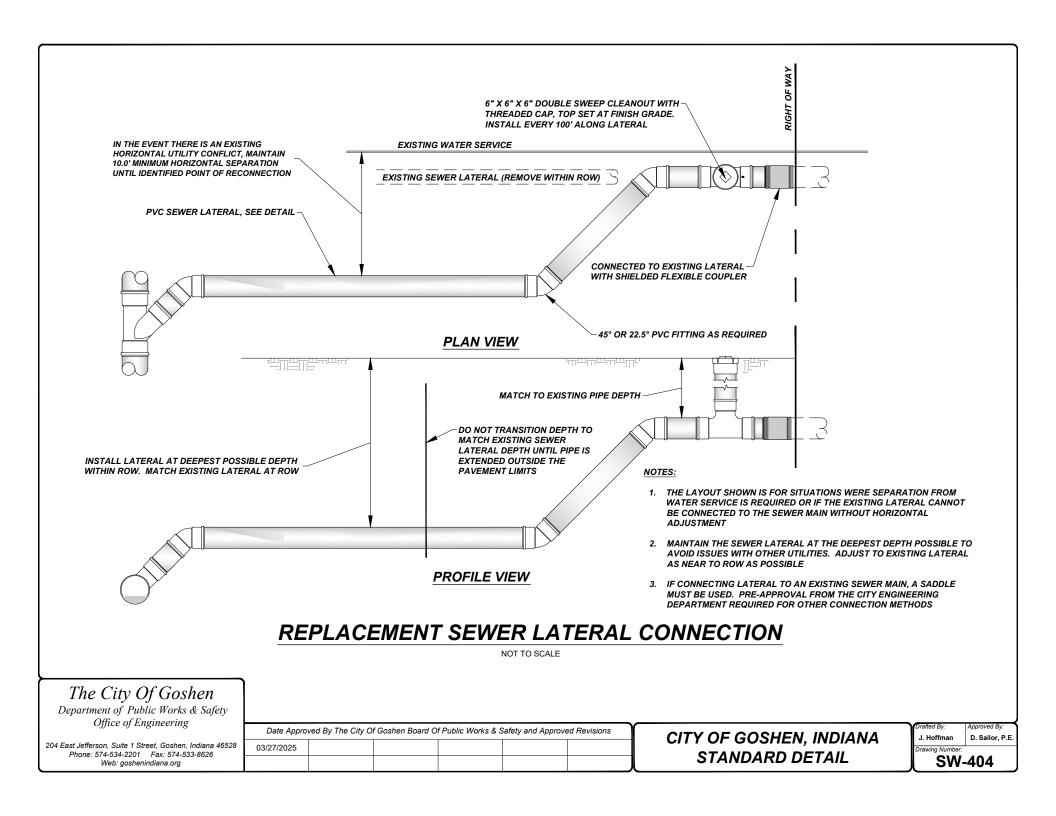


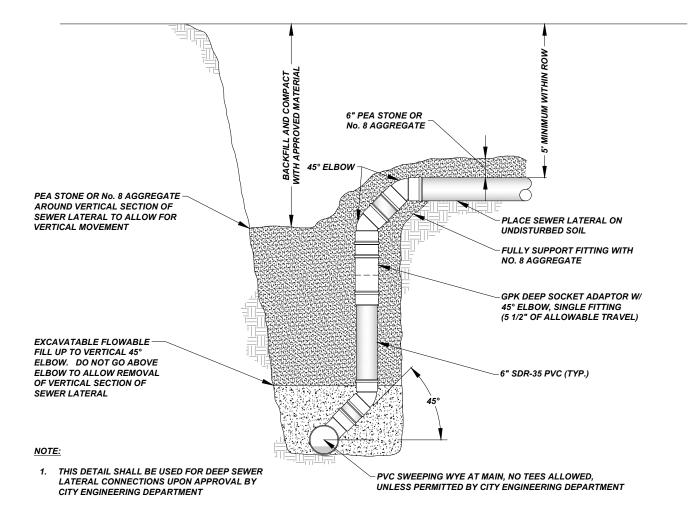


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03/27/2025

CITY OF GOSHEN, INDIANA STANDARD DETAIL





VERTICAL SEWER LATERAL

NOT TO SCALE

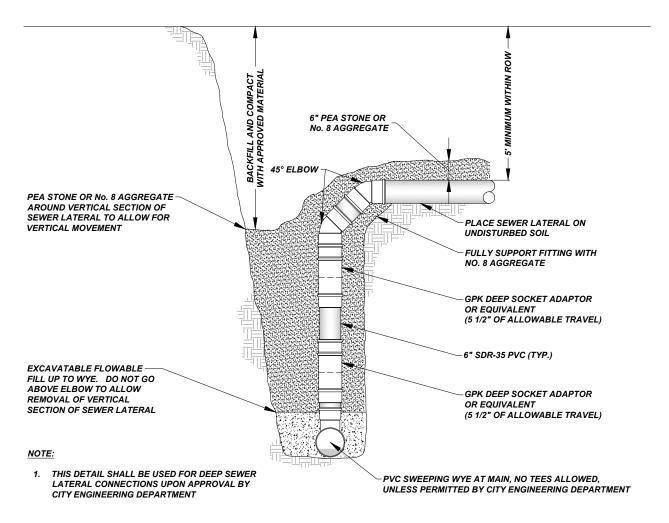
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3	03/27/2025					

Drawing Number:		
J. Hoffman	D. Sailor, P.E.	
Drafted By:	Approved By:	



VERTICAL SEWER LATERAL

NOT TO SCALE

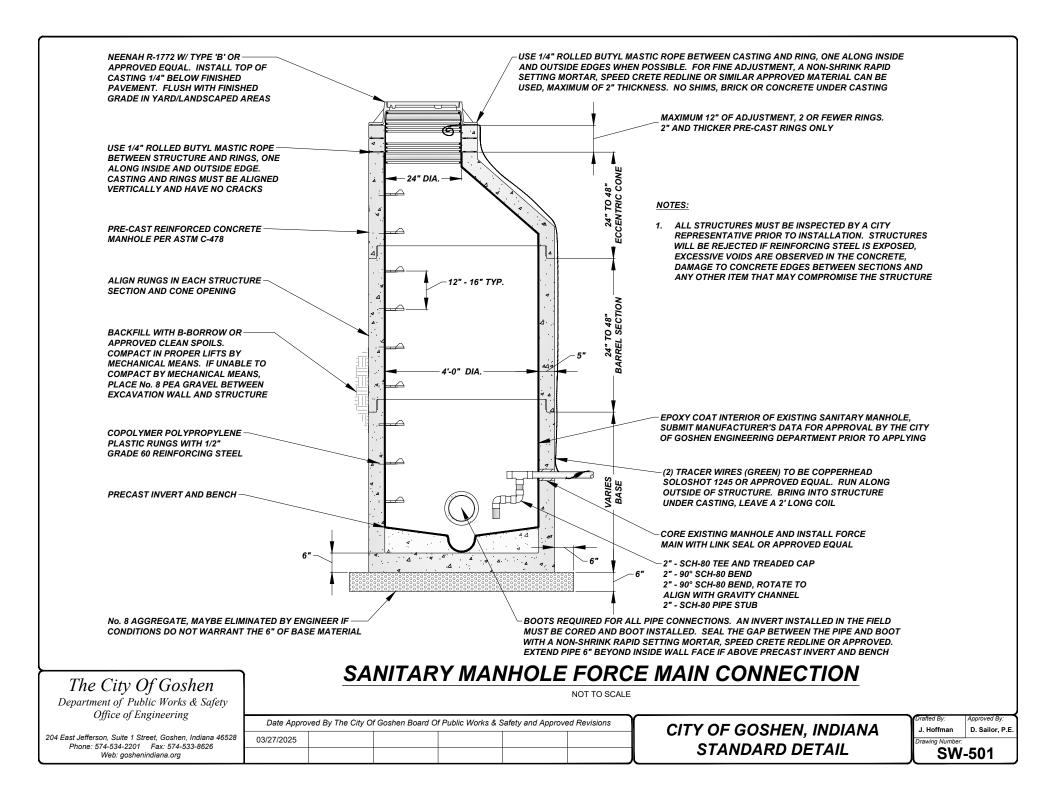
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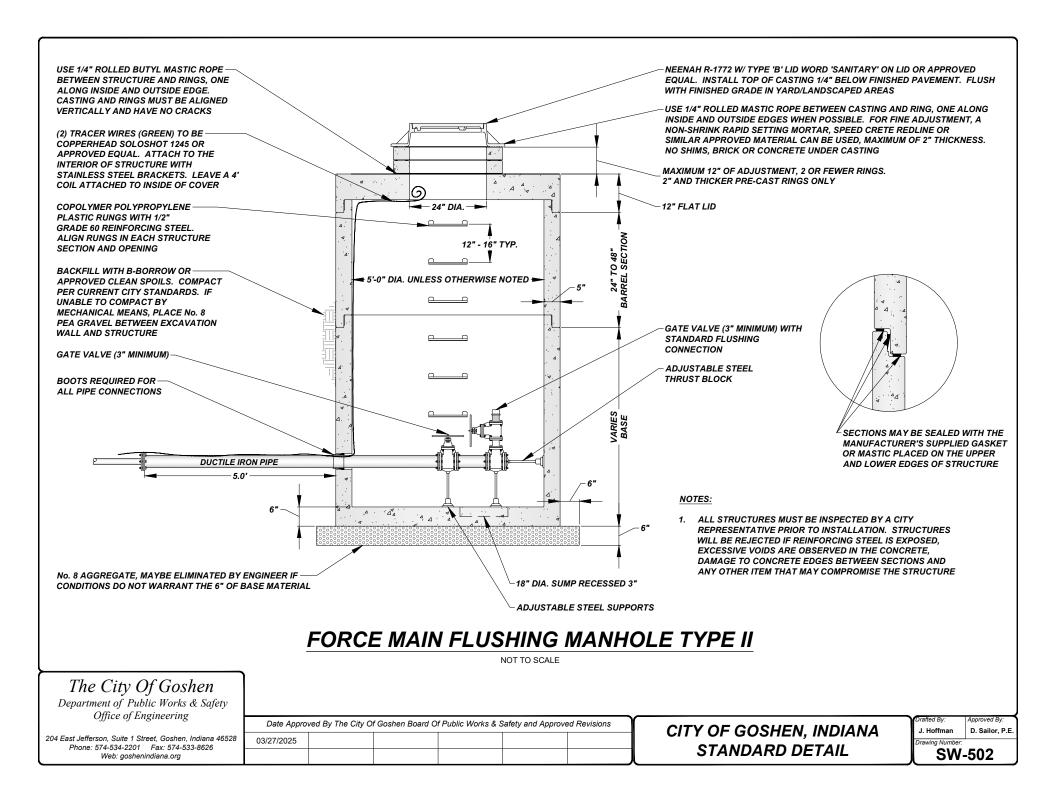
Department of Public Works & Safety
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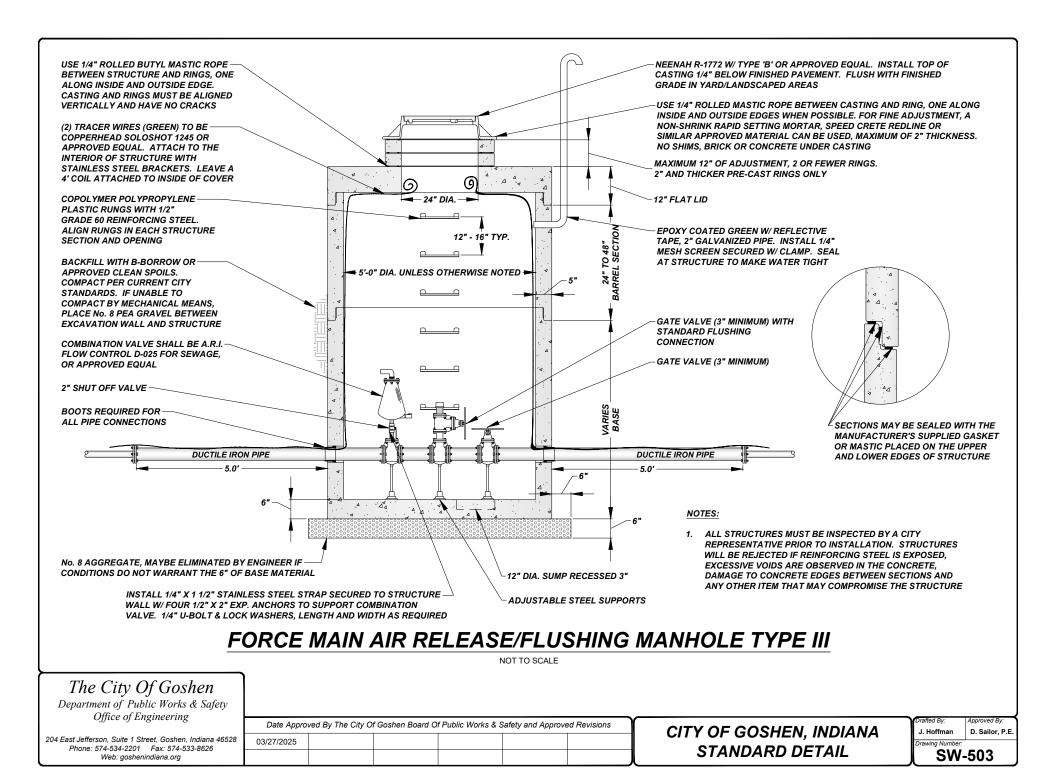
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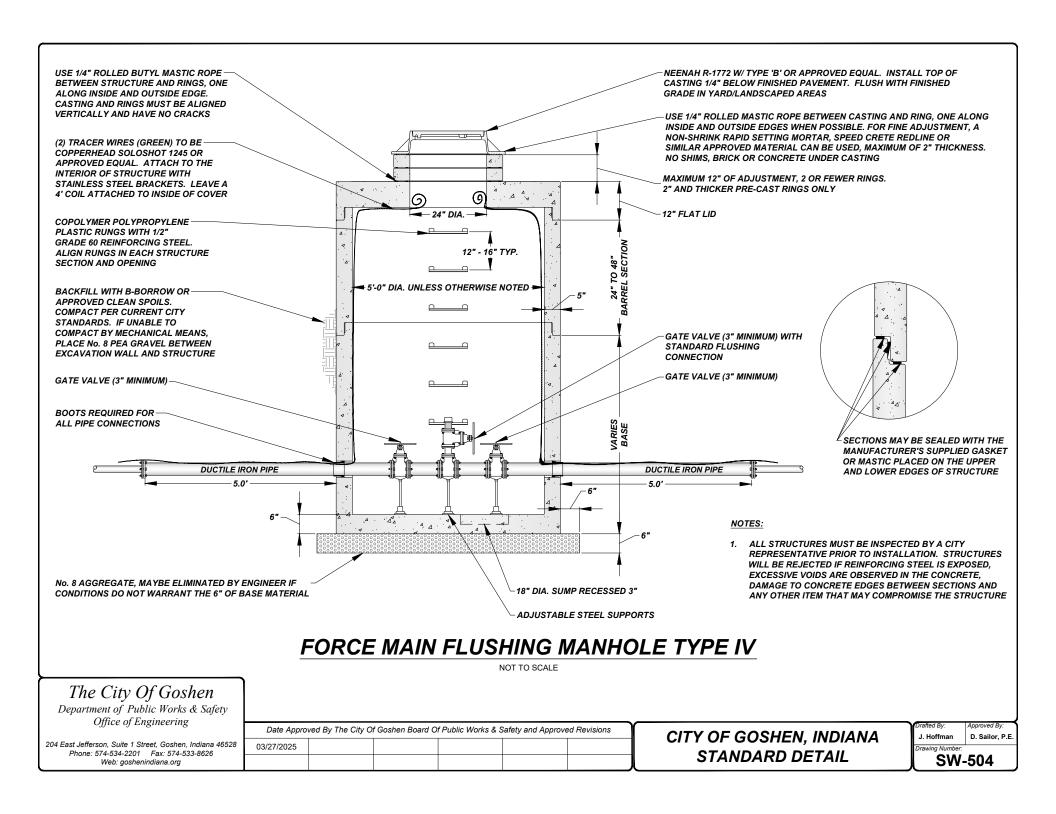
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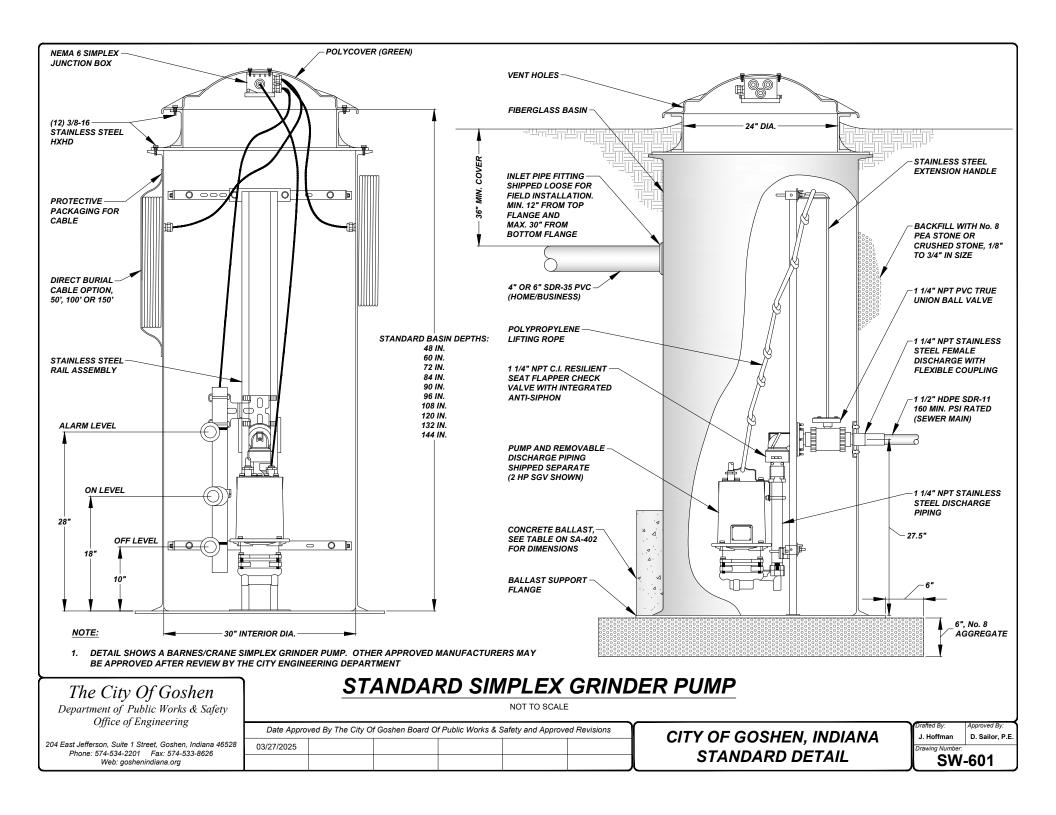
ΤĎr	afted By:	Approved By:	
J	. Hoffman	D. Sailor, P.E.	
Dr	Drawing Number:		
ı	SW.	406	

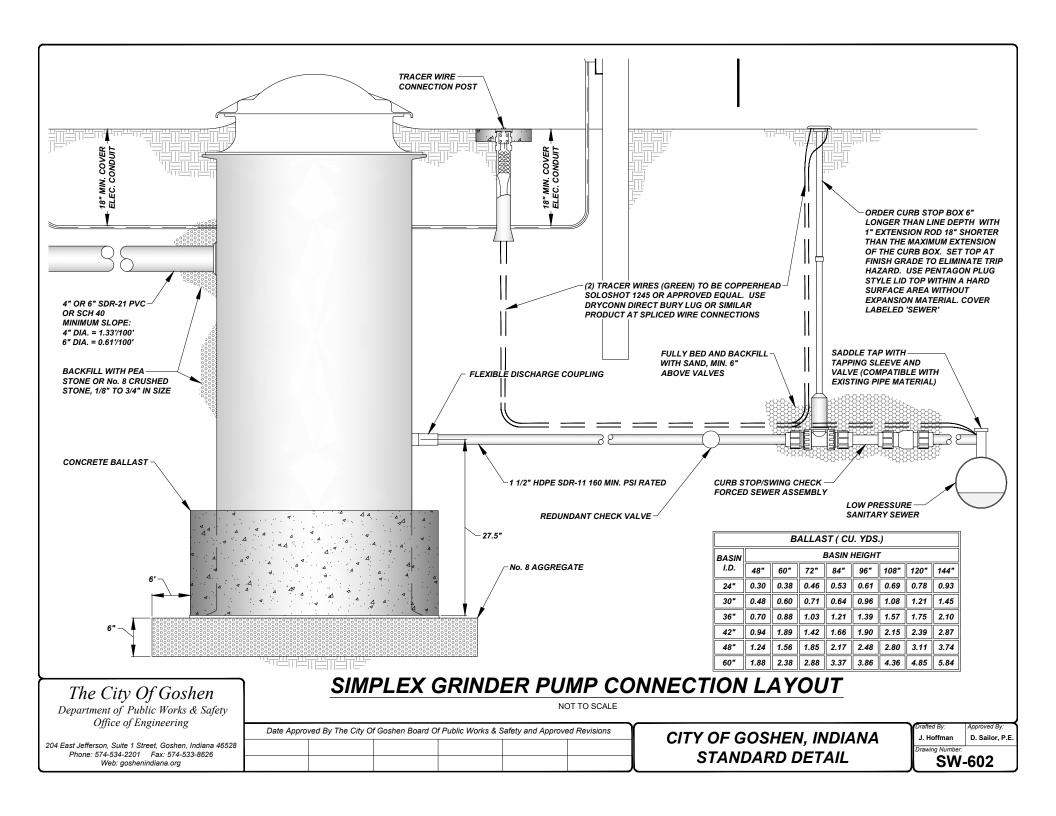


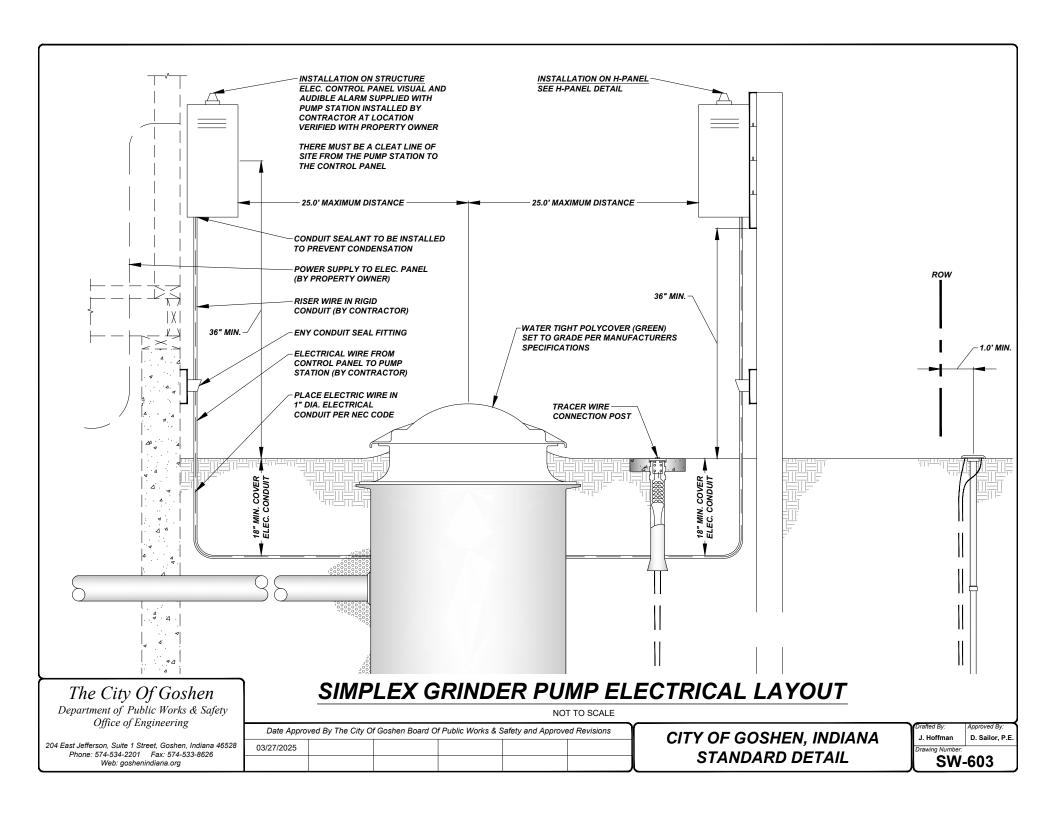


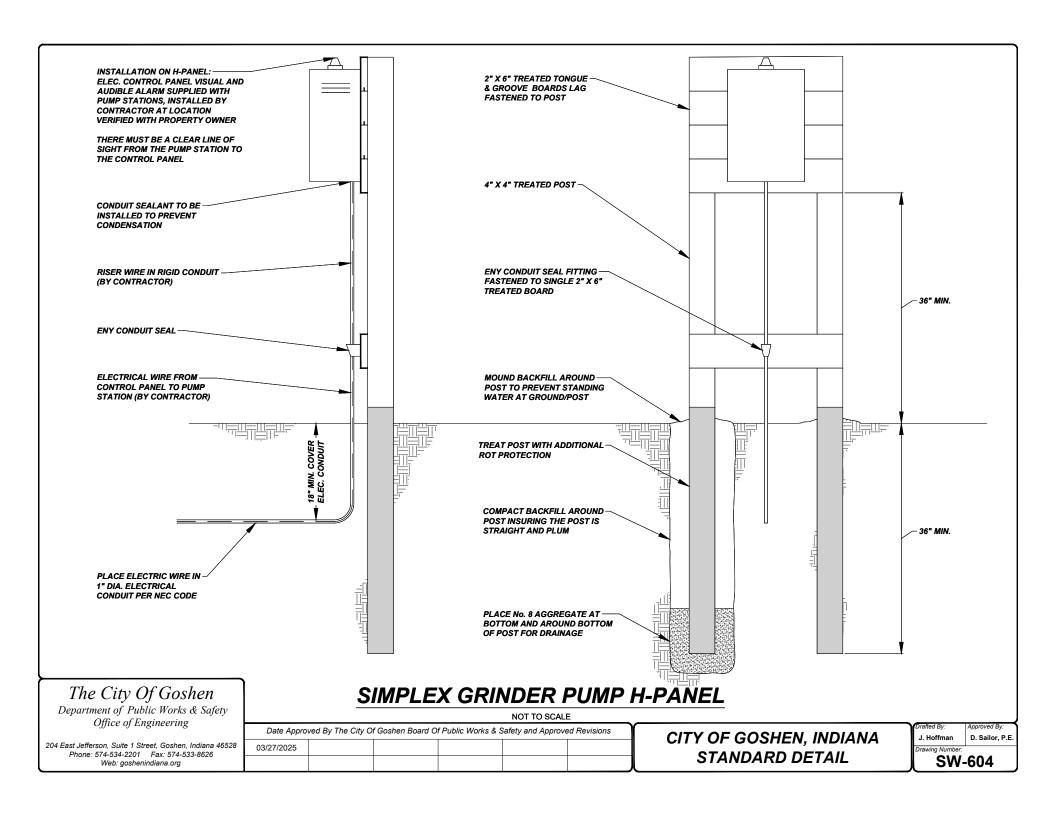


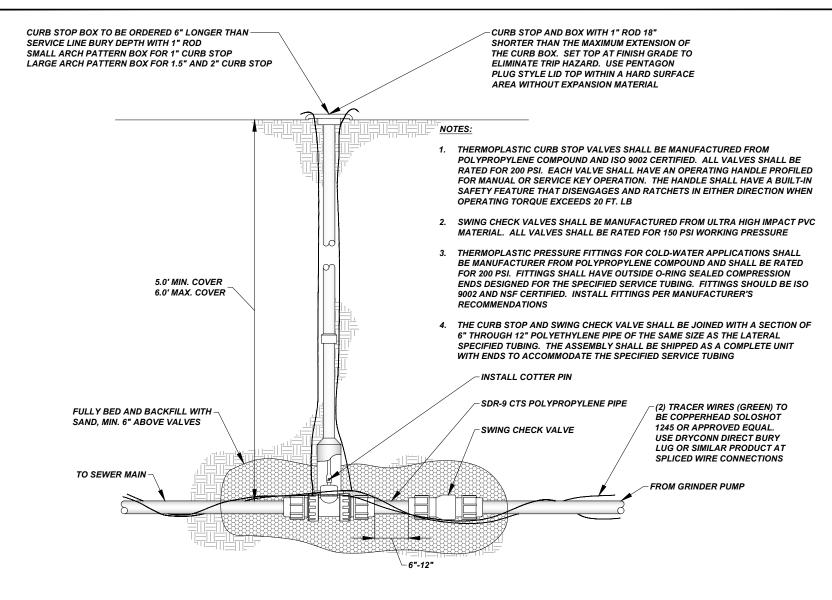












CURB STOP/SWING CHECK FORCED SEWER ASSEMBLY

NOT TO SCALE

The City Of Goshen

Department of Public Works & Safety Office of Engineering

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J. Hoffman	D. Sailor, P.E.	
Drawing Number:		
SW-605		