

1 1/2" 7 3/4" 17" 7 3/4" CITY OF MISHAWAKA, INDIANA PROJECT NAME PROJECT NO. AAA-00-000 PROJECT ☐ SEWER ☐ WATER ☐ TRAFFIC ☐ STREET ☐ OTHER DRAWING INDEX <table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.7em;"> <thead> <tr> <th style="width: 50%;">DESCRIPTION</th> <th style="width: 50%;">SHEET NO.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table> LOCATION MAP MIN. SCALE 1" = 2000' APPROVALS CITY ENGINEERING DEPARTMENT NAME _____ CITY ENGINEER/DIRECTOR OF ENGINEERING NAME _____ BOARD OF PUBLIC WORKS & SAFETY AND UTILITY BOARD NAME _____ PRESIDENT NAME _____ VICE PRESIDENT NAME _____ MEMBER NAME _____ MEMBER NAME _____ CLERK DATE SIGNED _____		DESCRIPTION	SHEET NO.		
DESCRIPTION	SHEET NO.				
CITY OFFICIALS NAME _____ MAYOR NAME _____ CITY CLERK NAME _____ CONTROLLER NAME _____ CORPORATION COUNSEL NAME _____ CITY ENGINEER	BOARD OF PUBLIC WORKS AND SAFETY NAME _____ PRESIDENT NAME _____ VICE PRESIDENT NAME _____ MEMBER NAME _____ CLERK UTILITY BOARD NAME _____ PRESIDENT NAME _____ VICE PRESIDENT NAME _____ MEMBER NAME _____ CLERK LATEST EDITION OF THE CITY OF MISHAWAKA, INDIANA SPECIFICATIONS AND STANDARD DETAILS TO BE USED WITH THESE PLANS				
PLANS PREPARED BY: CONSULTING FIRM NAME ADDRESS TELEPHONE CONSULTANT LOGO PROFESSIONAL ENGINEER SIGNATURES AND SEALS					

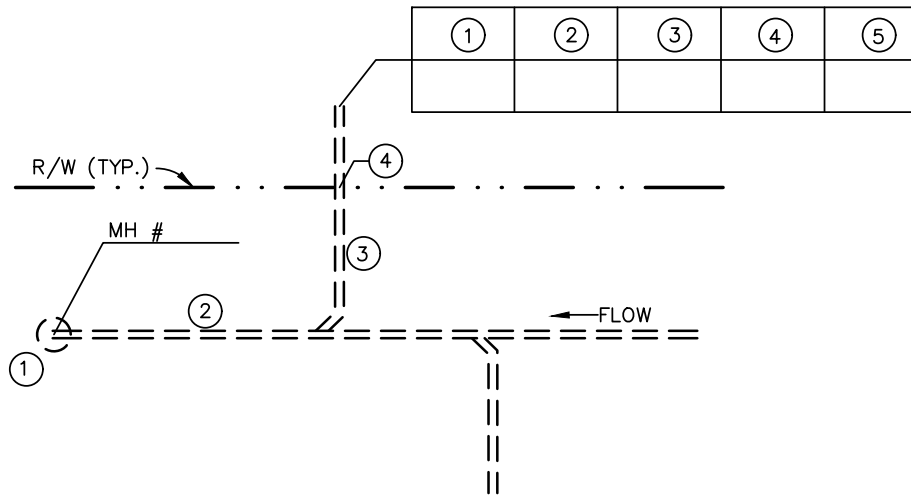
NOTES

1. THIS COVER SHEET SHALL BE USED ON ALL PLAN SETS.
2. ALL LETTERS AND NUMBERS SHALL BE MECHANICAL, UPPER CASE.
3. INDEX NUMBERS AND LETTERS SHALL BE A MIN. OF 1/8" LETTER HEIGHT.

LEGEND

- ① 3/4" LETTER HEIGHT
- ② 1/2" LETTER HEIGHT
- ③ 3/8" LETTER HEIGHT
- ④ 1/4" LETTER HEIGHT
- ⑤ MIN. 1/8" LETTER HEIGHT

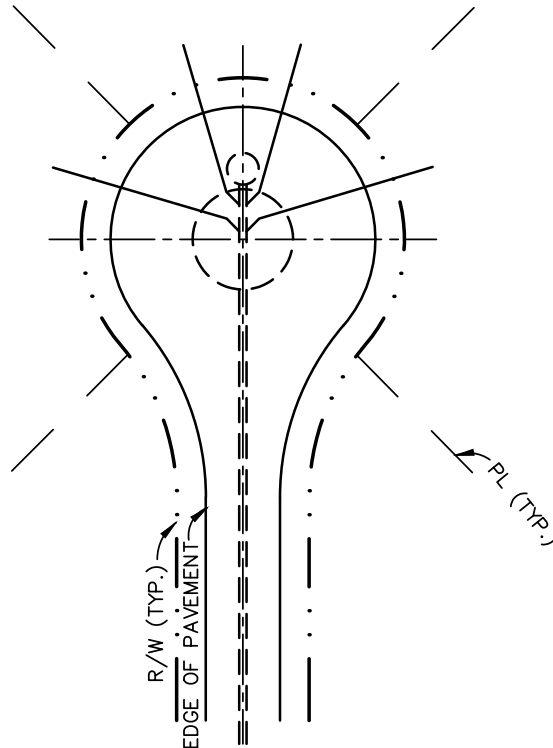
APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS & SAFETY				CITY OF MISHAWAKA, INDIANA	
ITEM	REVISION	APPROVED DATE		ENGINEERING STANDARDS	
	EFFECTIVE	APRIL 2007			
	REVISED	FEBRUARY 2022			
	REVISED	AUGUST 2026			
			COVER SHEET	SHT. NO.	I-1



SEWER TAP AS-BUILT

NOTES:

1. DOWNSTREAM MANHOLE NUMBER.
2. LOCATION OF TAP FROM DOWNSTREAM MANHOLE.
3. LENGTH OF LATERAL FROM MAIN TO STUB.
4. DEPTH OF LATERAL AT END.
5. HOUSE NUMBER LATERAL SERVICES

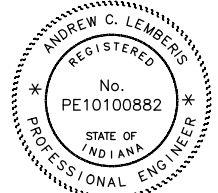


CUL-DE-SAC SEWER TAP AS-BUILT

NOTES:

1. ALL DISTANCES MEASURED FROM ϕ CUL-DE-SAC PERPENDICULAR TO ϕ OF STREET IN COUNTER-CLOCKWISE DIRECTION.

PREPARED BY: DLZ INDIANA, LLC



Andrew C. Lemberis
8-16-2026

APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS & SAFETY

ITEM	REVISION	APPROVED DATE
	EFFECTIVE	APRIL 2007
	REVISED	FEBRUARY 2022



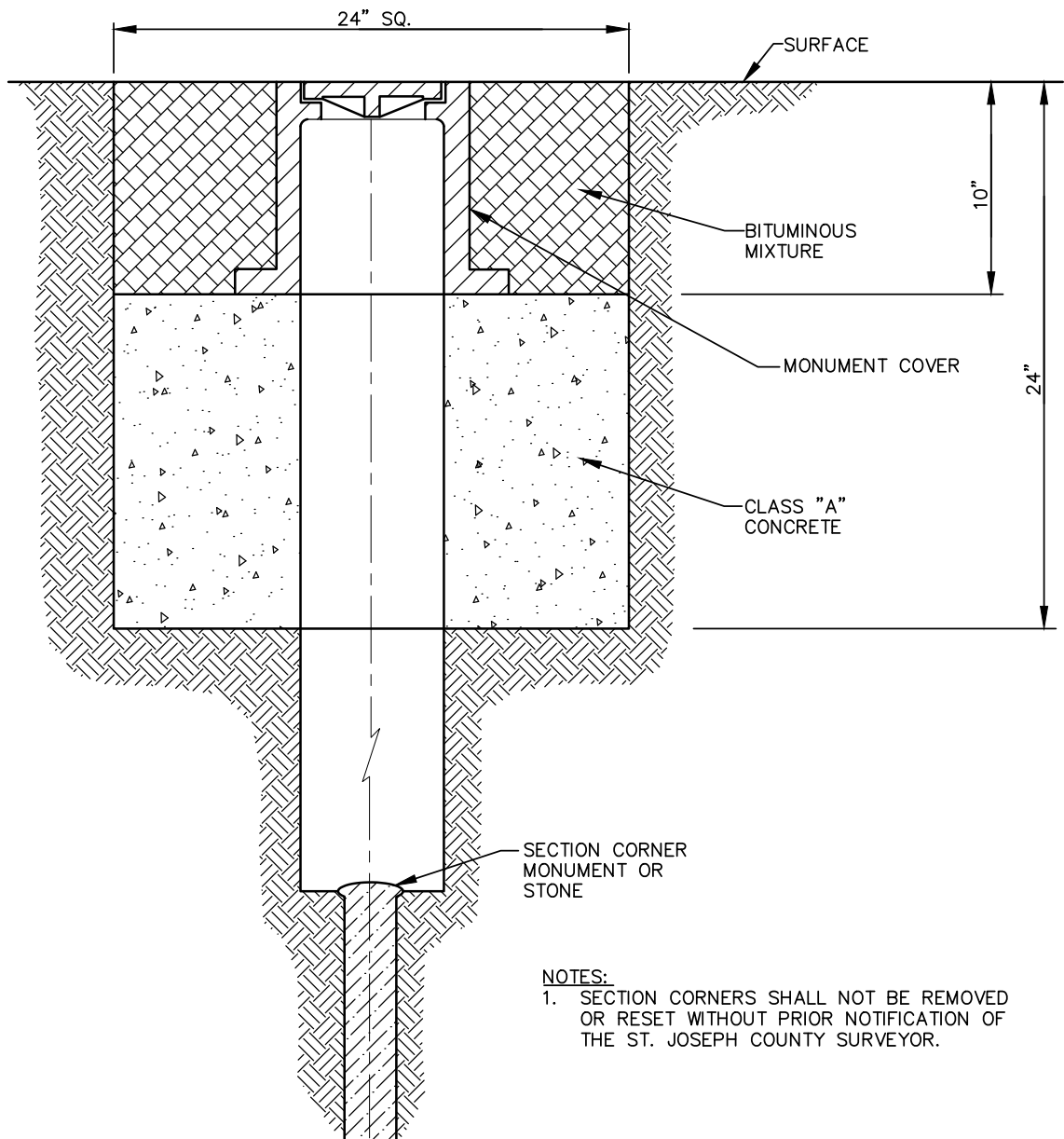
CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

SEWER TAP
AS-BUILT DETAIL

SHT. NO.

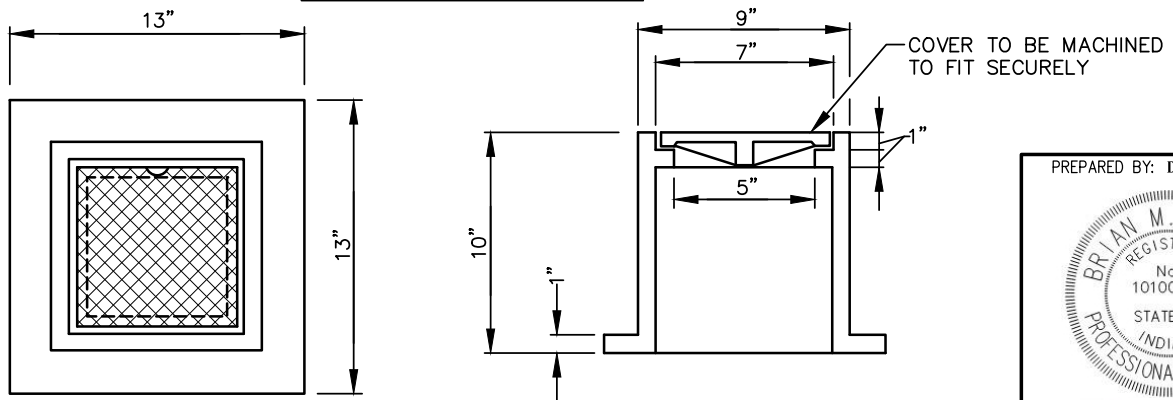
1-2



NOTES:

1. SECTION CORNERS SHALL NOT BE REMOVED OR RESET WITHOUT PRIOR NOTIFICATION OF THE ST. JOSEPH COUNTY SURVEYOR.

MONUMENT COVER INSTALLATION



MONUMENT COVER DETAIL

PREPARED BY: DLZ INDIANA, LLC



Brian M. Smith

8/13/2026

APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS & SAFETY



CITY OF MISHAWAKA, INDIANA

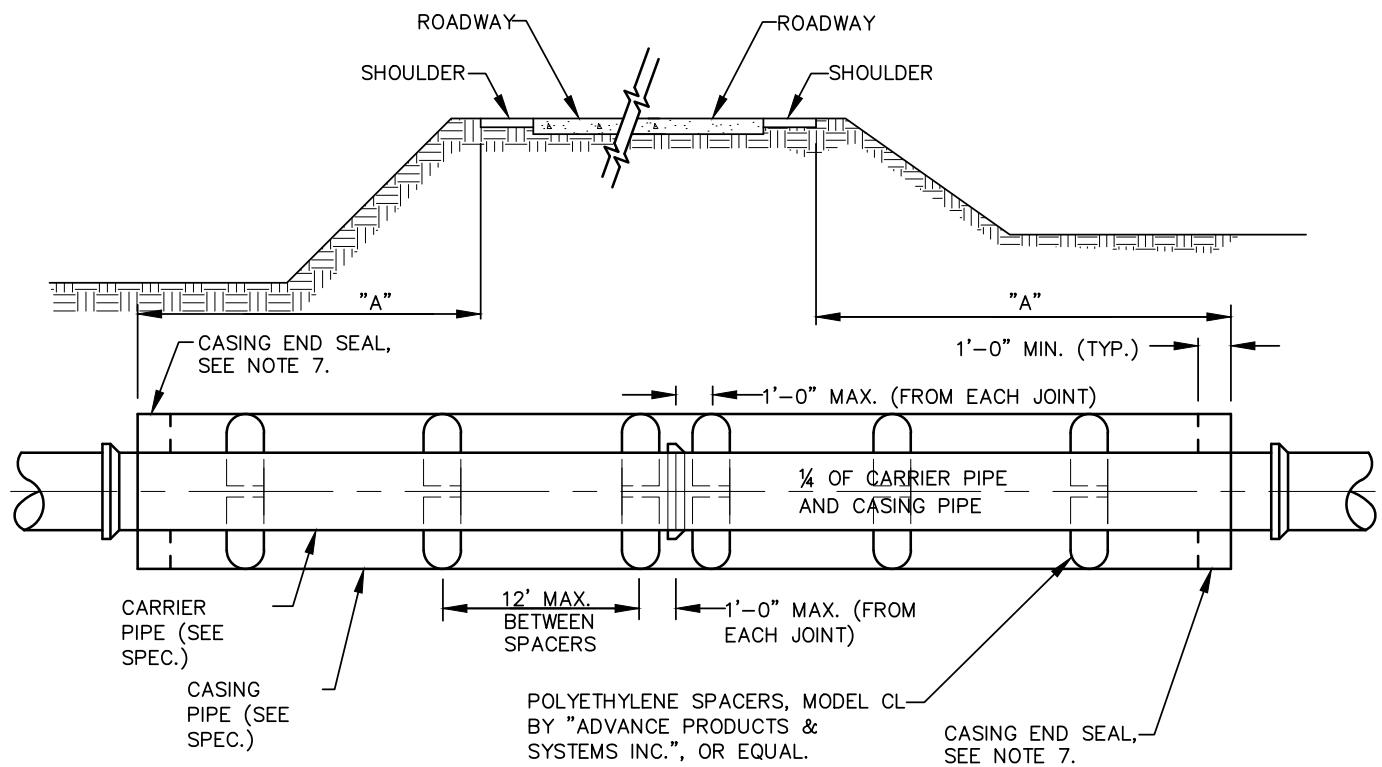
ENGINEERING STANDARDS

SHT. NO.

SURVEY LINE MONUMENT

1-3

ITEM	REVISION	APPROVED DATE
	EFFECTIVE	APRIL 2007
	REVISED	FEBRUARY 2022



DISTANCE "A"
 MINIMUM DISTANCE BEYOND OUTER RAIL OR EDGE OF PAVEMENT SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED BY THE RAILROAD, ROADWAY, OR HIGHWAY CONCERNED.

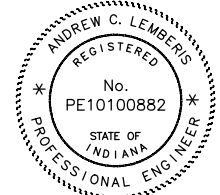
PIPE DIA. (IN.)	STEEL CASING WALL THICKNESS (IN.)
10 AND UNDER	0.188
12 AND 14	0.250
16	0.281
18	0.312
20 AND 22	0.344
24	0.375
26	0.406
28	0.438
30	0.469
32	0.500
34 AND 36	0.532

TYPICAL DETAIL-PIPE IN CASING

NOTES:

1. WHERE MULTIPLE LANES ARE ENCOUNTERED THE METAL CASING PIPE SHALL BE CONTINUOUS.
2. CASING PIPE SHALL BE INSTALLED BY JACKING OR BORING.
3. IN LIEU OF POLYETHYLENE SPACES, A SYSTEM OF BONDED PRESSURE TREATED WOOD SKIDS OR SIMILAR SYSTEM MAY BE USED WITH A SHOP DRAWING APPROVAL.
4. ALL UTILITIES INSTALLED UNDER A RAILROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE RAILROAD HAVING JURISDICTION.
5. ALL RAILROAD RIGHT-OF-WAY PERMITS SHALL BE APPROVED BY THE CITY PRIOR TO SUBMITTAL TO THE RAILROAD.
6. ANY OTHER ENTITIES HAVING JURISDICTION OF THE RIGHT-OF-WAY OTHER THAN THE CITY, SHALL HAVE APPROVAL OF UTILITY CROSSINGS.
7. FOR CASING END SEAL GROUT ANNULAR SPACE WITH CONC. BRICK AND NON-SHRINK GROUT TO PLUG OPENING, PROVIDE WEEP HOLES.

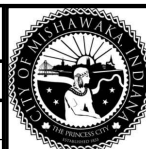
PREPARED BY: DLZ INDIANA, LLC



Andrew C. Lemberis
 8-16-2026

APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS & SAFETY

ITEM	REVISION	APPROVED DATE
	EFFECTIVE	APRIL 2007
	REVISED	MARCH 2013
	REVISED	FEBRUARY 2022



CITY OF MISHAWAKA, INDIANA

ENGINEERING STANDARDS

PIPE IN CASING DETAIL

SHT. NO.

1-4