

FLEXIBLE MANHOLE JOINT

MASONRY

PLUG

FORM CHANNEL

TO OBTAIN A

SITION FROM

∠ MANHOLE BOOT

SMOOTH TRAN-

INVERT TO INVERT -

-MANHOLE BOO

DROP PIPE SHALL

ER4-67ES, DROP

ONE SIZE SMALLER

PIPE SHALL BE

THAN MAIN LINE

WITH A 10" MIN.

- MATCH TOP OF

- STAINLESS STEEL

- MANHOLE BOOT

PIPES

BAND.

— ¾" ANGULAR OR CRUSHED

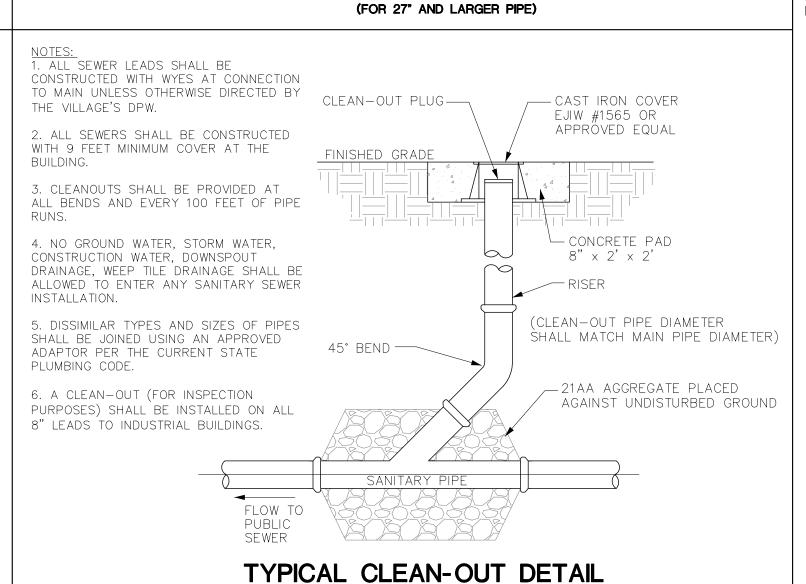
STONE BACKFILL

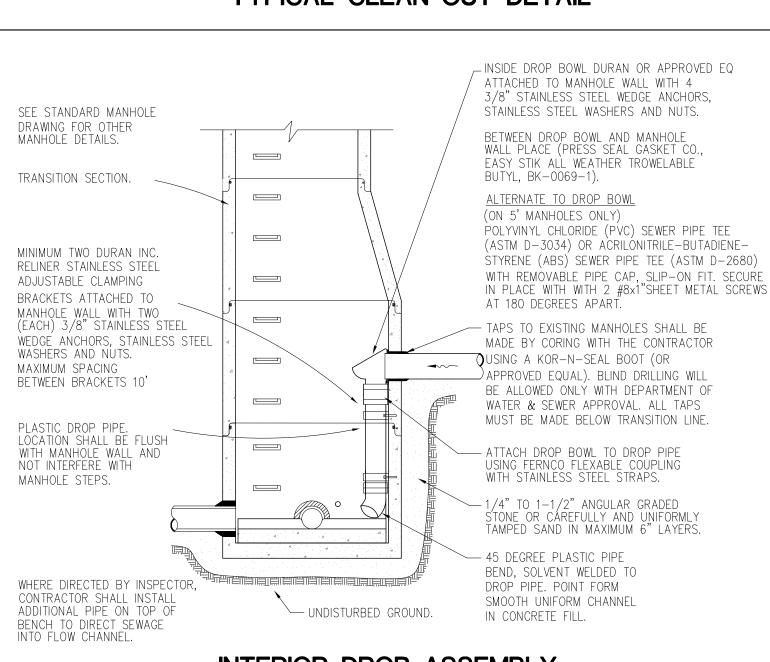
└─ ¾" ANGULAR OR CRUSHED

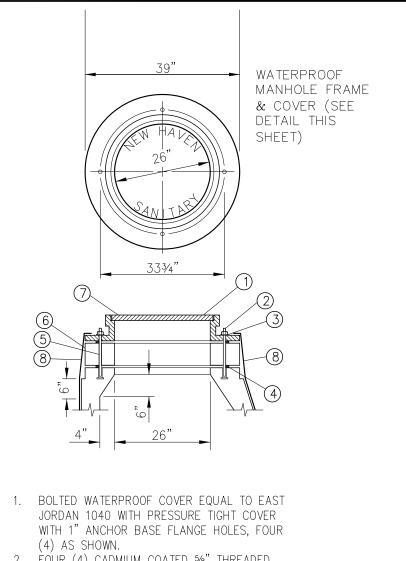
STONE BACKFILL

EXTERIOR DROP ASSEMBLY

BE C14XM OR







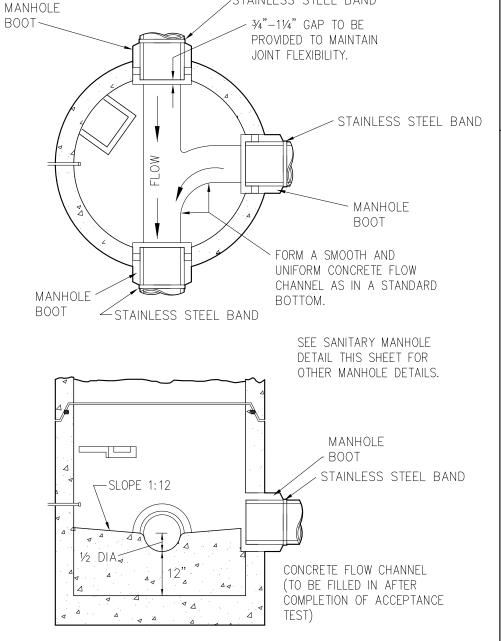
- 2. FOUR (4) CADMIUM COATED 56" THREADED STUDS, 34"x2"x1/16" FLAT WASHERS & NUTS.
 3. FOUR (4) 34"x2"x1/16" NEOPREME FLAT
- WASHERS.
 4. RUBBER "O" RING $^{21}/_{32}$ " DIA. I.D. IS 36".
 5. FOUR (4) %" THREADED INSERTS CAST AS
- SHOWN.
 6. GRADE RING. PROVIDE 6" MIN.—18" MAX.
- ADJUSTMENT.

 7. COVERS EQUIPPED WITH ½" STAINLESS STEEL
 CAP SCREWS COUNTERSUNK FLUSH WITH COVER.
 TAPS IN COVERS & BOLTS PROVIDED BY
- MANUFACTURER & SHALL NOT BE FIELD TAPPED

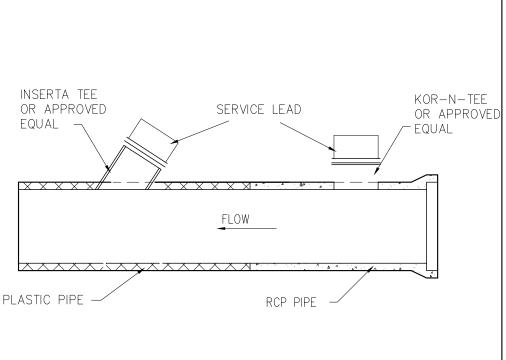
 8. EXTERNAL "WRAPID SEAL" PER MANUFACTORER'S REQUIREMENTS OR APPROVED EQUAL IN PAVEMENT OR FLOOD AREAS.

MANHOLE FRAME & COVER

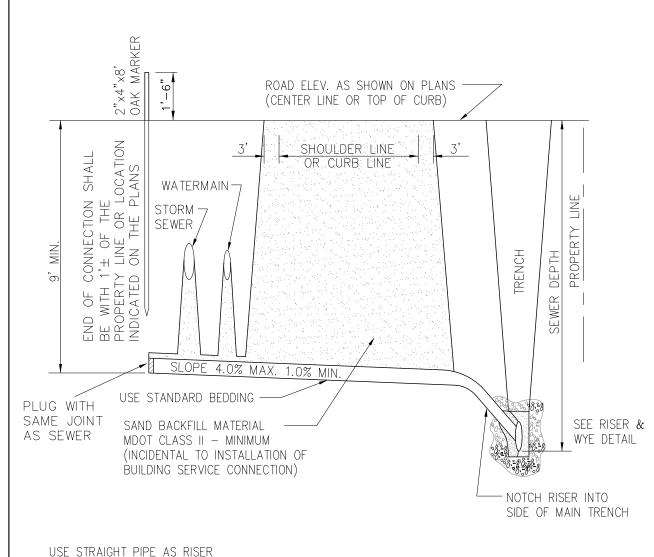
STAINLESS STEEL BAND

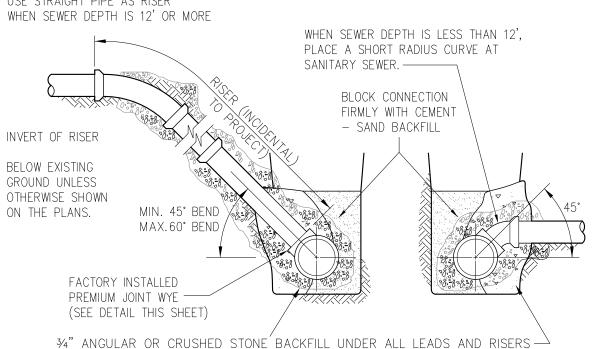


MANHOLE SUMP



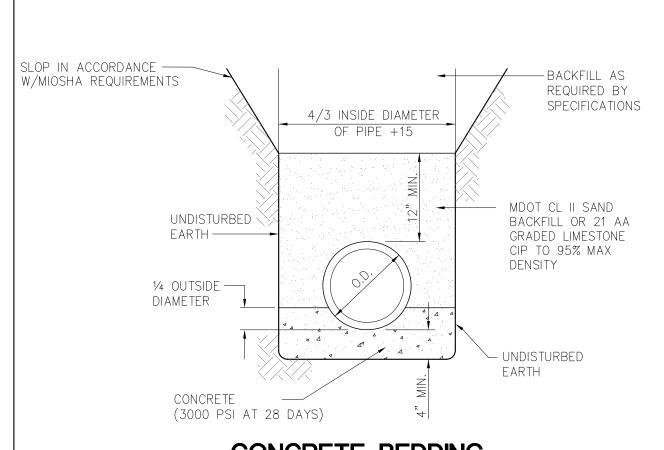
EX SEWER TAP



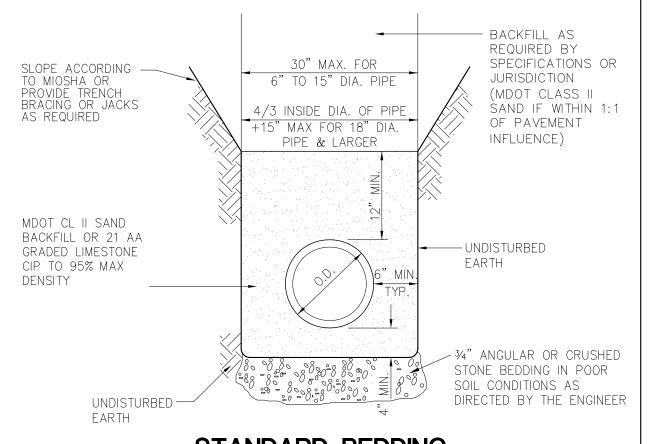


SANITARY BUILDING SERVICE CONNECTION

RISER & WYE DETAIL



CONCRETE BEDDING



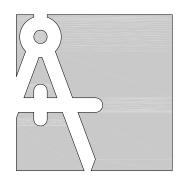
STANDARD BEDDING

GENERAL SANITARY SEWER NOTES

 THE CONTRACTOR SHALL SHALL NOTIFY NEW HAVEN VILLAGE, AND ALL AGENCIES HAVING JURISDICTION (GLWA, MDOT, MCDR, MCOPW), THREE WORKING DAYS PRIOR TO CONSTRUCTION.

REPRESENTATIVE WILL BE PRESENT.

- 2. THE CONTRACTOR SHALL ATTEND A
 PRE—CONSTRUCTION MEETING, AT A TIME AND PLACE
 AS ARRANGED BY THE OWNER, IN WHICH VARIOUS
 UTILITY COMPANIES AND GOVERNMENTAL AGENCY
- 3. PRIOR TO CONSTRUCTION OF ANY SANITARY SEWERS WHICH ARE TO BE CONNECTED TO THE MUNICIPAL SEWER SYSTEM, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF A PERMIT TO CONSTRUCT A CONNECTION TO, OR AN EXTENSION OF THE WASTEWATER DISPOSAL SYSTEM OF THE MUNICIPALITY.
- 4. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY, MCDR, MDOT, AND/OR MCOPW AS REQUIRED.
- 5. ALL MANHOLES SHALL BE PRECAST CONCRETE (ASTM C478 & C443).
- 6. ALL REINFORCED CONCRETE SEWER PIPE SHALL CONFORM TO THE ASTM SPECIFICATIONS C76 WITH CLASS DESIGNATION ON PLANS.
- 7. SEWER MAIN PIPE: MIN 8" TO 15" PVC SDR26 (PS115) PIPE (ASTM D3034) WITH GASKET JOINTS (ASTM D3212) OR, IF ALLOWED, PVC COMPOSITE (TRUSS) PIPE (ASTM D2680) WITH GASKET JOINTS (ASTM D3212); GREATER THAN 15" REINFORCED CONCRETE ASTM C76 CLASS 4 WITH PREMIUM RUBBER O-RINGS OR PROFILE GASKET JOINTS (ASTM C443).
- 8. ALL SANITARY SEWER BEDDING SHALL BE STANDARD BEDDING UNLESS OTHERWISE SHOWN ON THE PLANS.
- 9. SEWER SERVICE PIPE: MIN DIA 6-INCH PVC SDR 26 (ASTM D2241), PVC SDR 23.5 (ASTM D3034), OR PVC SCHD 40 (ASTM D1785) W/ GLUED JOINTS. MIN PIPE SLOPE SHALL BE 1% OR 1/8" PER 1 FOOT (4% OR 1/2" PER 1 FOOT MAX). FOR 8-INCH AND GREATER DIA SEWERS, USE PVC SDR 26 PIPE W/GLUED JOINTS. MIN PIPE SLOPE SHALL BE 0.8% OR 1/10" PER 1 FOOT (3% OR 3/8" PER 1 FOOT MAX).
- 10. ALL SANITARY SEWER WYE OPENINGS SHALL CONTAIN FACTORY INSTALLED PREMIUM JOINTS.
- 11. NO GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWNSPOUT DRAINAGE, WEEP TILE DRAINAGE SHALL BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.
- 12. NO SEWER INSTALLATION OR PORTION THEREOF SHALL HAVE INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER TWENTY FOUR (24) HOUR PERIOD.
- 13. AS PART OF THE FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE FOR TELEVISION INSPECTION OF THE SANITARY SEWER LINES IN ACCORDANCE WITH THE CURRENT DETAILED SPECIFICATIONS OF THE MUNICIPALITY.
- 14. AT ALL CONNECTIONS TO AN EXISTING SANITARY SEWER, OR EXTENSION THERETO, A TEMPORARY WATERTIGHT BULKHEAD WITH A CAPPED ONE (1) INCH DIAMETER PIPE TO PERMIT MEASURING INFILTRATION SHALL BE PROVIDED. A TEMPORARY 12 INCH DEEP MANHOLE SUMP SHALL ALSO BE PROVIDED IN THE FIRST MANHOLE ABOVE THE CONNECTION OR AT A LOCATION AS DIRECTED BY THE MUNICIPALITY AND/OR AS INDICATED ON THE PLANS, WHICH WILL BE FILLED IN TO FORM SMOOTH AND UNIFORM CONCRETE FLOW CHANNELS AFTER THE SUCCESSFUL COMPLETION OF ANY INFILTRATION— EXFILTRATION TESTS, AT WHICH TIME THE TEMPORARY WATERTIGHT BULKHEAD SHALL BE REMOVED.
- 15. WHEREVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES AT 4" CENTER TO CENTER AROUND THE PERIPHERY OF THE OPENING, TO CREATE A PLANE OF WEAKNESS JOINT, BEFORE BREAKING OUT SECTION. NON—SHRINK GROUT SHALL BE USED TO SEAL THE OPENING AND A CONCRETE COLLAR 12" THICK SHALL BE POURED AROUND THE PIPE AND SHALL BE EXTENDED TO THE FIRST JOINT.
- 16. STRUCTURE STEPS SHALL BE M.A. IND.
 POLYPROPYLENE PLASTIC WITH #3 DEFORMED BAR
 (DETAIL PSI) SPACED 16" OC FROM 24" ABOVE
 FLOOR TO 18" BELOW TOP OF COVER. IF THE
 STRUCTURE WALL IS PRECAST THE STEPS SHALL BE
 FACTORY INSTALLED.
- 17. AIR TEST SHALL, AT MINIMUM, BE PERFORMED ACCORDING TO ASTM C924 FOR CONCRETE AND ASTM F1417 FOR PLASTIC PIPE.
- 18. ALL EXCAVATION UNDER OR WITHIN A 1 ON 1 INFLUENCE OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT CLASS II MINIMUM).



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VILLAGE OF NEW HAVEN
MACOMB COUNTY

3 WORKING DAYS 800-482-7171



Know what's below. Call before you dig.

PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES LOCATION AND DEPTH WITHIN THE PROJECT AREA SHALL BE FIELD VERIFIED. CALL MISS DIG SYSTEM 3 WORKING DAYS PRIOR TO CONSTRUCTION

UTILITY INFORMATION SHOWN ON THIS DRAWING ARE APPROXIMATE AND MAY I ACCORDING TO AVAILABLE RECORD OR DISCLOSED INFORMATION BY VARIOUS UTILITY COMPANIES, PUBLIC AGENCIES, OR OTHER SOURCES AND THUS MAY NOT NECESSARILY REFLECT ACTUAL FIELD LOCATIONS AND NO GUARANTEE GIVEN TO COMPLETENESS OR ACCURACY

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TRI—COUNTY ENGINEERING CONSULTA

PROJECT NAME:

NEW HAVEN
SANITARY SEWER

STANDARD DETAILS

PROJECT LOCATION:

VILLAGE OF NEW HAVEN
MACOMB COUNTY

Drawn By: TCEC

SEC 28/34, TO4N, R14E

Checked Bý: NHDPW Approved By: NEW HAVEN REVISIONS:

01/12/24



SCALE VERIFICATION:

0 0.5 1

BAR IS ONE—INCH

ADJUST SCALES ACCORDINGLY IF

cale: NONE

PRAWING NO: NH-StdSAN

Sheet of

(ONLY WITH SPECIAL APPROVAL)

INTERIOR DROP ASSEMBLY