

TOWN OF HENRIETTA

LEHIGH STATION ROAD SANITARY SEWER - PHASE 2 PROJECT

PROJECT No. T21-01

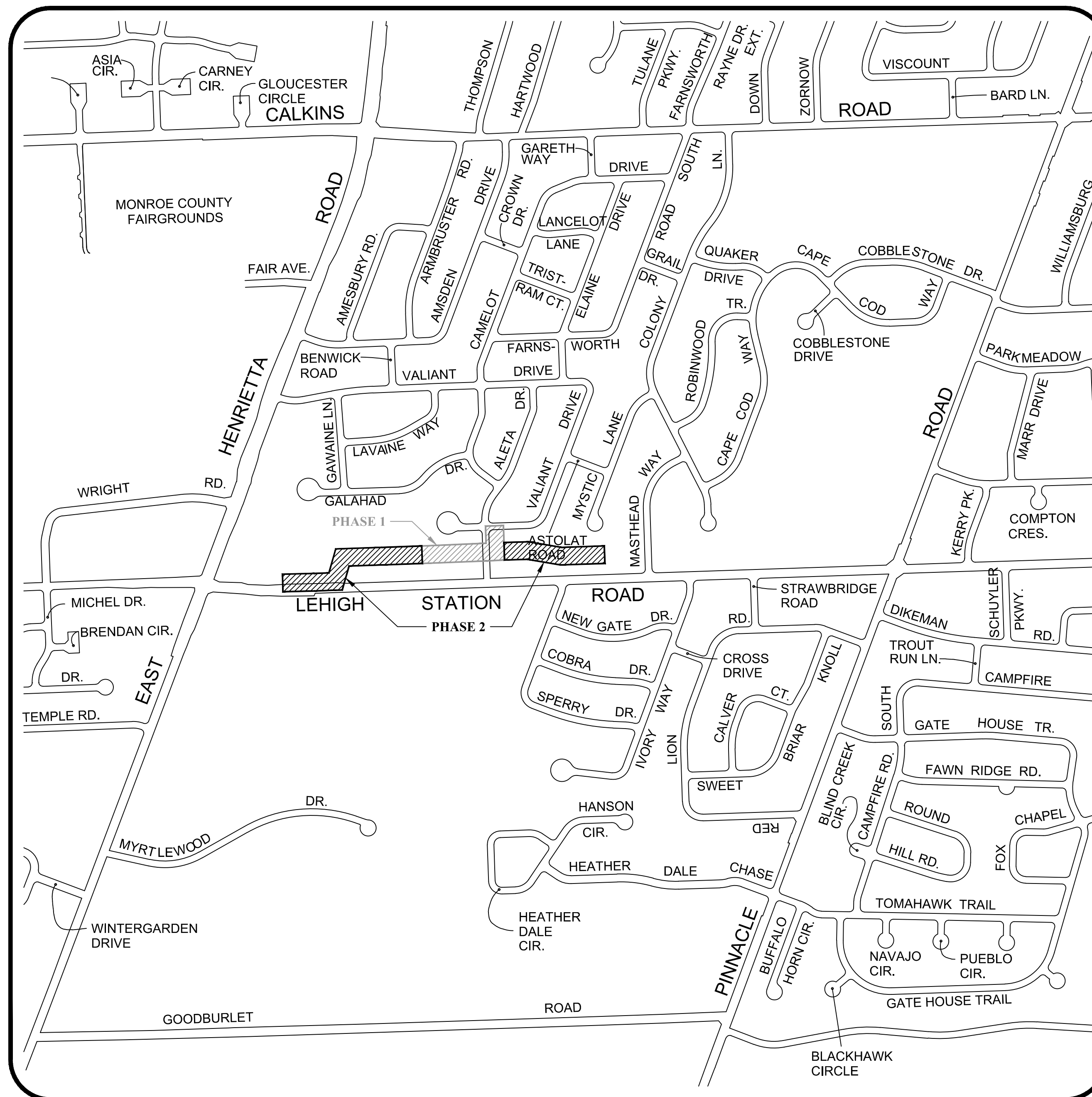
HENRIETTA TOWN BOARD

STEPHEN L. SCHULTZ	SUPERVISOR
MILLIE C. SEFRANEK	COUNCIL MEMBER
LISA S. BOLZNER	COUNCIL MEMBER
M. RICK PAGE	COUNCIL MEMBER
JOSEPH D. BELLANCA, JR.	COUNCIL MEMBER
CRAIG C. ECKERT	DEPUTY SUPERVISOR
REBECCA WIESNER	TOWN CLERK

APPROVALS

CHRISTOPHER E. MARTIN, P.E. DATE
DIRECTOR OF ENGINEERING & PLANNING

MICHAEL CATALANO DATE
COMMISSIONER OF PUBLIC WORKS



PROJECT LOCATION

INDEX OF DRAWINGS

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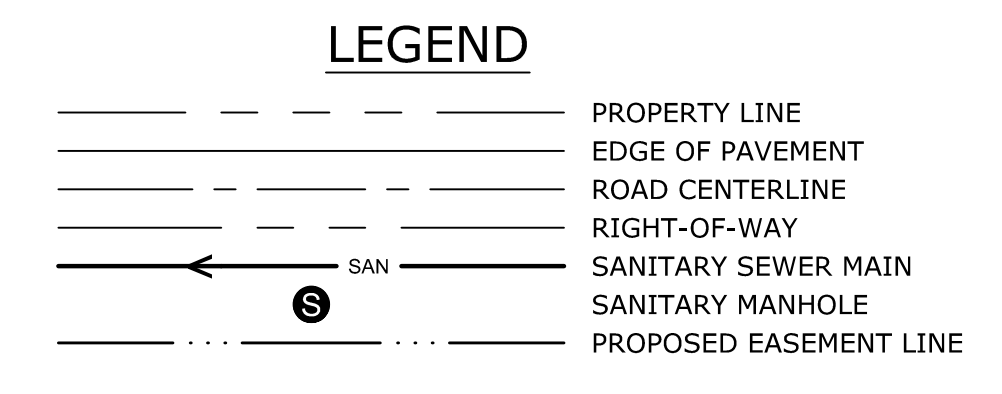
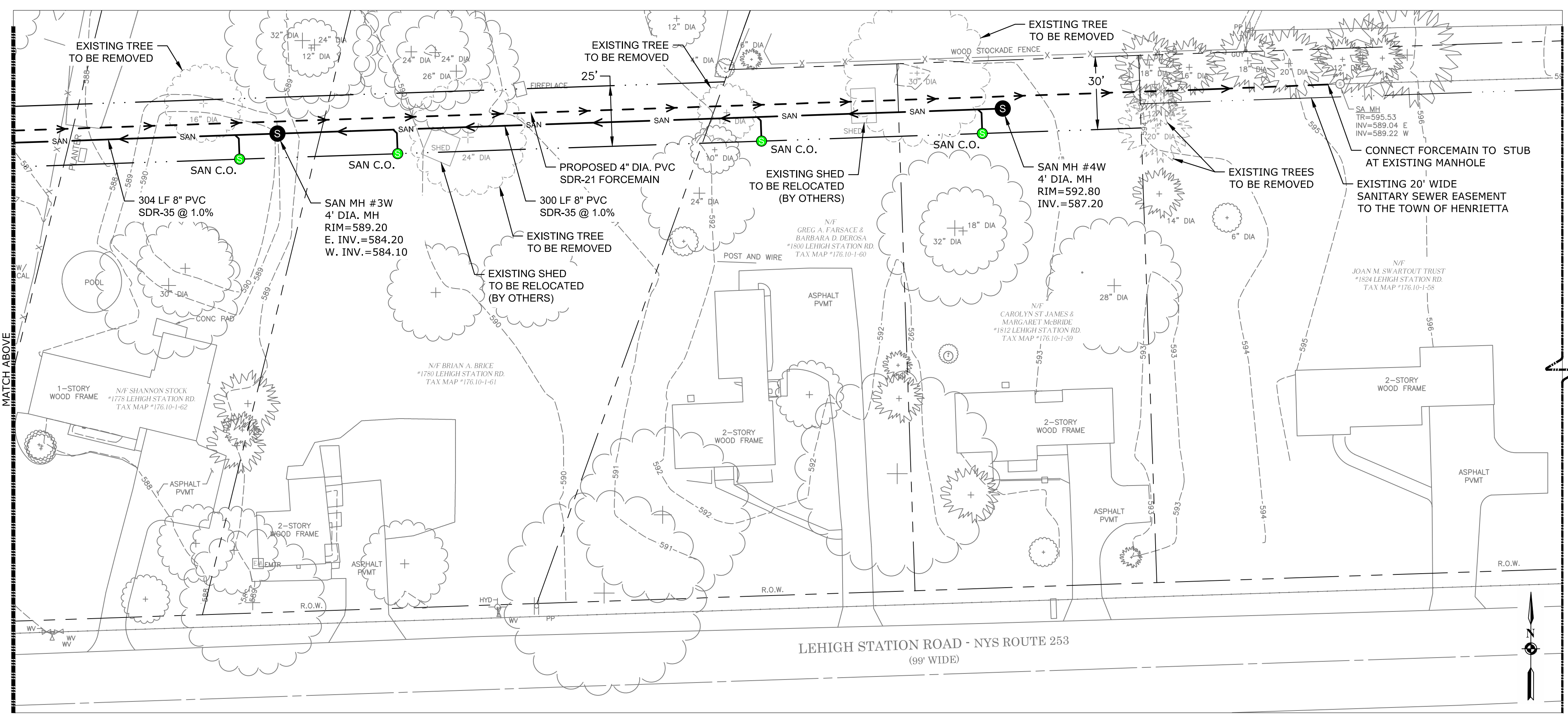
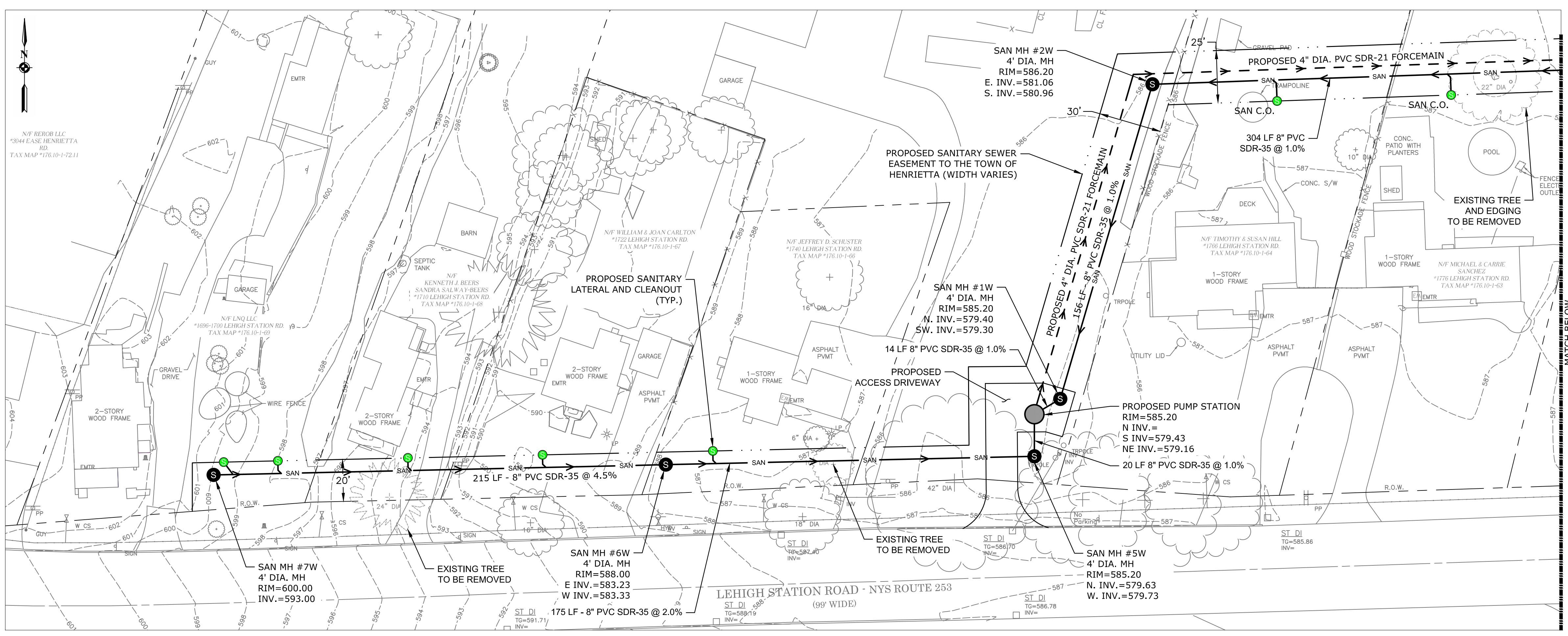
DESIGNER CONTACT STATEMENT

THE TOWN OF HENRIETTA IS RESPONSIBLE FOR THE DESIGN OF THIS PROJECT. CHRISTOPHER E. MARTIN, P.E. IS THE DESIGNER AND IS FAMILIAR WITH NYSDOT STANDARDS AND REQUIREMENTS AND SHALL BE CONTACTED AT (585) 359-7070 TO RESOLVE ISSUES OR PROBLEMS DURING CONSTRUCTION. ALL REVISIONS, INCLUDING REVISIONS NECESSARY DUE TO FIELD CONDITIONS, SHALL BE APPROVED BY THE TOWN.

Town of Henrietta
Engineering Department
475 Calkins Road
Henrietta, New York 14467
(585) 359-7070
Fax: (585) 321-6193

	DATE: 2/1/2022
	DWG. No.: T001
	SHEET No.: 1 of 6

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 MATCH ABOVE
 MATCH BELOW



SPECIAL NOTE:
 THE EXISTING SANITARY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTORS PRIOR TO STARTING WORK.

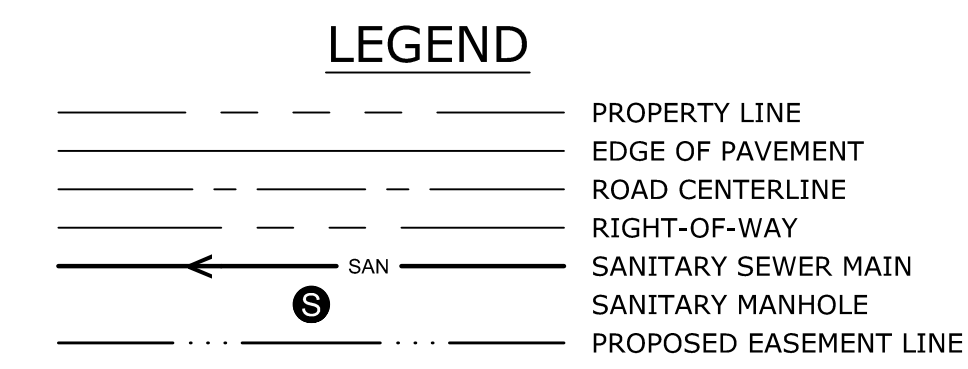
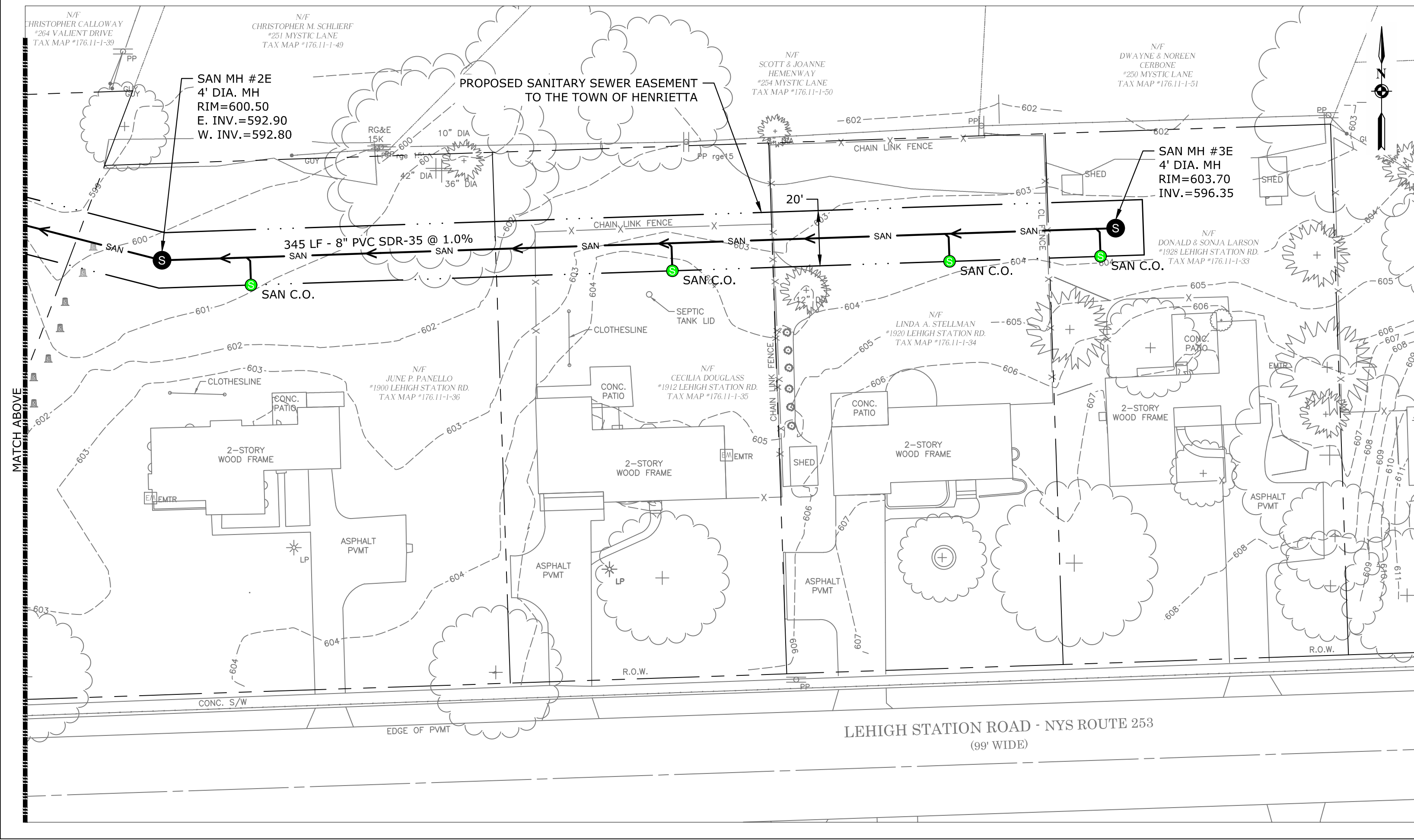
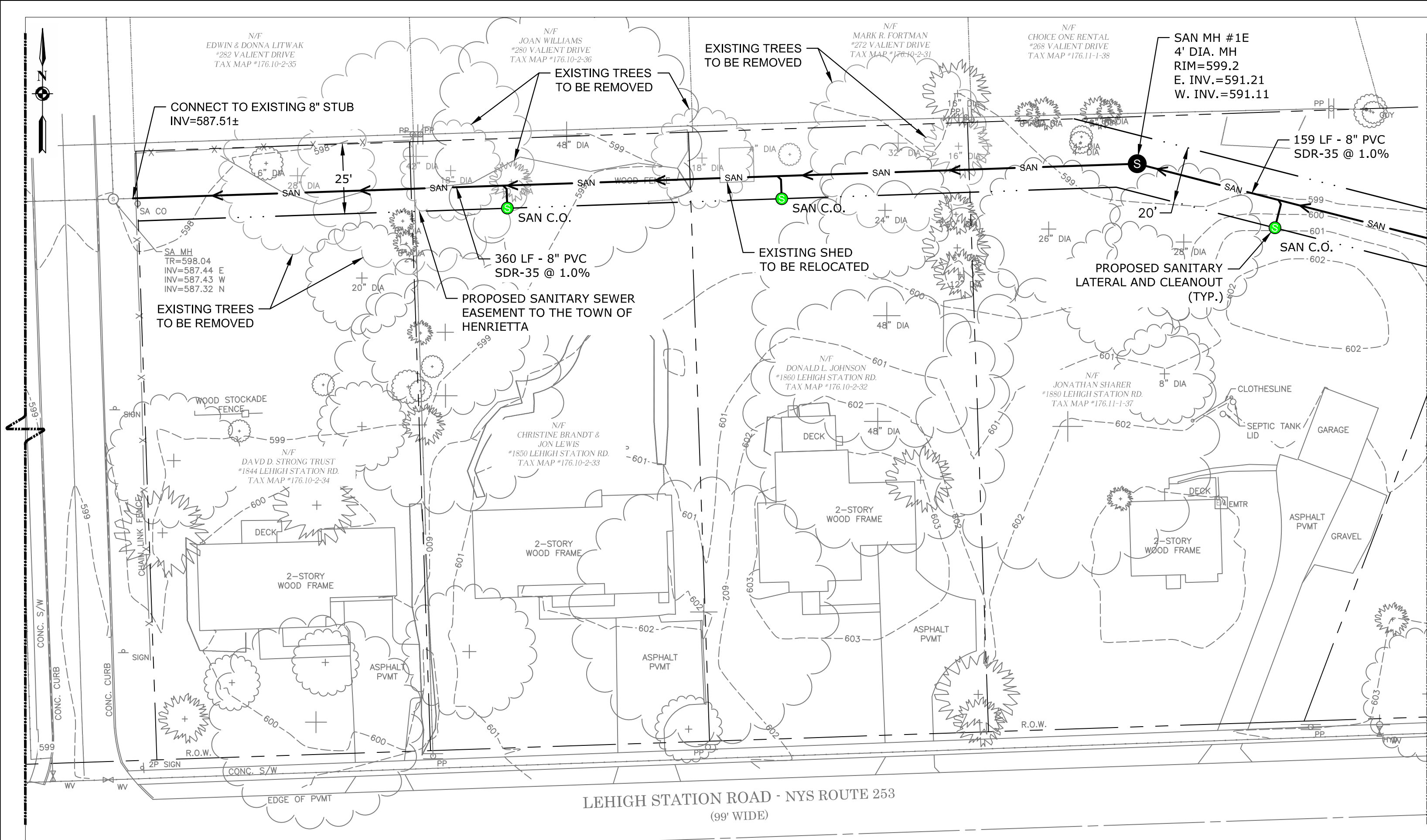
SCALE	DATE	JOB NO.	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION	INITIALS	DATE
1" = 30'	2/7/2022	T21-01	C. MARTIN	J. DIFILIPPO	C. MARTIN	C. MARTIN	LEHIGH STATION ROAD SANITARY SEWER - PHASE 2 UTILITY PLAN - 1 (WEST)		

REVISIONS	DATE	INITIALS

	TOWN OF HENRIETTA
	TOWN OF HENRIETTA 475 CALKINS ROAD HENRIETTA, N.Y. 14467 LEHIGH STATION ROAD SANITARY SEWER - PHASE 2 UTILITY PLAN - 1 (WEST)

DWG. NO. C100
SHEET NO. 2 of 6

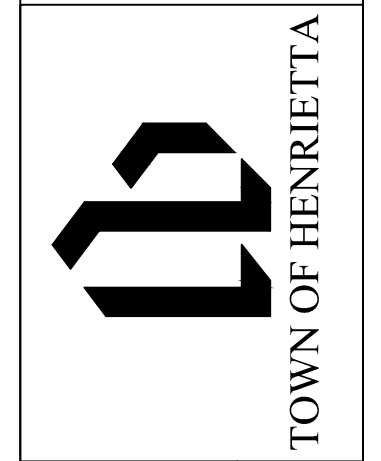
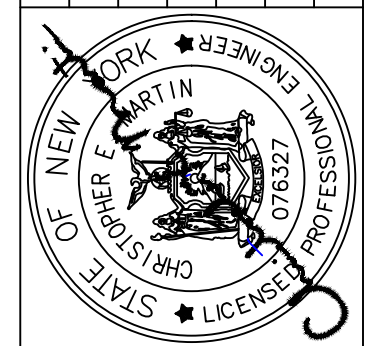
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SPECIAL NOTE:
THE EXISTING SANITARY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTORS PRIOR TO STARTING WORK.

NO.	DATE	DESCRIPTION	INITIALS	DATE

SCALE	1" = 30'
DATE	2/7/2022
JOB NO.	T21-01
DESIGNED BY	C. MARTIN
DRAWN BY	J. DIFILIPPO
CHECKED BY	C. MARTIN
APPROVED BY	C. MARTIN



TOWN OF HENRIETTA
475 CALKINS ROAD
HENRIETTA, N.Y. 14467
LEHIGH STATION ROAD SANITARY SEWER - PHASE 2
UTILITY PLAN - 2 (EAST)

DWG. NO.
C110
SHEET NO.
3 of 6

GENERAL NOTES:

- THE ACCURACY OF EXISTING UTILITIES ARE NOT GUARANTEED. EXISTING UTILITIES SHOWN ON THE PLANS ARE A RESULT OF INFORMATION OBTAINED FROM FIELD SURVEYS AND RECORD MAPS AND ARE FOR GENERAL INFORMATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATIONS OF ANY PERTINENT UTILITIES BY FIELD INVESTIGATION AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO REMAIN IN SERVICE.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER LINES NOT SHOWN HEREON OR OF RECORD. NOTIFY DIG SAFELY NEW YORK 2 WORK DAYS PRIOR TO DIGGING OR DRILLING AT 811 FOR A UTILITY STAKE-OUT.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, INSURANCE, AND BONDS AS REQUIRED BY THE MUNICIPALITY OR ANY AGENCY PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN ALL EXISTING STORM SEWERS, CULVERTS, DITCHES, MANHOLES, LATERALS, AND CATCH BASINS, AND ALL EXISTING SANITARY SEWERS, MANHOLES AND LATERALS, THAT ARE TO REMAIN IN SERVICE UPON COMPLETION OF THE PROJECT. ANY DAMAGE OR CHANGES TO THESE FACILITIES (INCLUDING CLEANING ALL DEBRIS) SHALL BE BORNE BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH THE NEW YORK STATE INDUSTRIAL CODE, RULE 23, SUBPART 23-4 "EXCAVATION OPERATIONS" TO PROVIDE SAFE EXCAVATION PRACTICES AND PROCEDURES.
- THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND ROW MONUMENTS IN THE AREAS OF CONSTRUCTION. IF THERE ARE ANY MONROE COUNTY SURVEY MONUMENTS IN THE AREA, A \$1500.00 LETTER OF CREDIT WILL BE REQUIRED TO PROTECT THEM. CONTACT THE MONROE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (MCDES) SURVEY OFFICE AT 585-753-7530.
- THE CONTRACTOR SHALL USE DUE CAUTION IN PROTECTING ALL PROPERTY MARKERS AND ALL CONSTRUCTION ELEVATION AND LOCATION SURVEY STAKES.
- ANY DAMAGE TO EXISTING PAVEMENT, SHOULDER, DRIVES, CURBS, SIDEWALKS, LANDSCAPING, ETC. WHICH ARE SCHEDULED TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH ALL THE APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES REGARDING THE PREVENTION, CONTROL AND ABATEMENT OF SOIL EROSION, SEDIMENTATION AND WATER POLLUTION.
- THE CONTRACTOR SHALL PROVIDE EROSION CONTROL BARRIERS DURING CONSTRUCTION AND FOR THE REMOVAL OF THE SAME AFTER GRADING AND SURFACE RESTORATION HAS BEEN PERFORMED.
- THE CONTRACTOR SHALL BE REQUIRED TO CLEAN MUD AND DEBRIS FROM PUBLIC ROADS AND PRIVATE DRIVEWAYS AND PARKING AREAS SERVICING THE CONSTRUCTION SITE DURING AND AFTER THE COMPLETION OF THE PROJECT AND AS REQUESTED BY THE MUNICIPALITY OR AGENCIES.
- REFERENCES TO NYS DOT STANDARDS SHALL MEAN THE LATEST "STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, MAY 2020", US CUSTOMARY UNITS WITH ALL CURRENT ADDENDA.
- ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
- MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE TOWN ROAD RIGHT-OF-WAY, UNLESS APPROVAL IS GRANTED FROM THE DEPARTMENT OF PUBLIC WORKS.
- QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR OF 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
- NO WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
- HAZARDOUS WASTE NOTIFICATION - THE CONTRACTOR ACCEPTS THE RIGHT-OF-WAY THE TOWN ROAD IN ITS "AS-IS" CONDITION. THE TOWN MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREAFTER. SHOULD THE CONTRACTOR FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE TOWN SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE CONTRACTOR IS REQUIRED TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE TOWN.

SANITARY SEWER NOTES:

- ALL WORK AND MATERIAL FOR THIS PROJECT SHALL CONFORM TO THE TOWN OF HENRIETTA SANITARY SEWER SYSTEM STANDARDS WITH ITS LATEST REVISIONS.
- SANITARY LATERAL PIPE IS TO BE PVC SDR-21 UNLESS DETERMINED OTHERWISE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE LOCATION MARKERS TO WHICH NEW LATERALS ARE INSTALLED (END LOCATION).
- A RECORD UTILITY PLAN MUST BE PROVIDED TO THE TOWN ENGINEERING DEPARTMENT UPON COMPLETION OF THE PROJECT. SWING TIE DIAGRAMS WILL BE INDICATED FOR THE EXISTING AND PROPOSED WATER CURB BOXES, VALVES, AND ALL LATERAL CLEANOUTS. THE RECORD UTILITY PLAN WILL ALSO INCLUDE ALL IMPROVEMENTS, SUCH AS GUTTERS, CURBS, ETC. ALL STRUCTURES WILL BE SHOWN WITH TIES TO THE PROPERTY LINES ON ALL SIDES.
- ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF LOCAL AND/OR MONROE COUNTY SEWER USE LAW.
- FLOOR DRAINS TO BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUNDWATER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
- SANITARY MANHOLES WILL BE VACUUM TESTED IN ACCORDANCE WITH THE TOWN OF HENRIETTA STANDARDS. ALL SANITARY MAINS WILL BE TELEVIEWED BY THE TOWN OF HENRIETTA.
- THE FOLLOWING TESTS SHALL BE PERFORMED ON PVC SANITARY SEWER PIPE:
 - DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACK FILL HAS BEEN IN PLACE LEAST 30 DAYS.
 - NO PIPE SHALL EXCEED A 5% DEFLECTION
 - IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE.
 - THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

SEPTIC TANK ABANDONMENT (BY OTHERS)

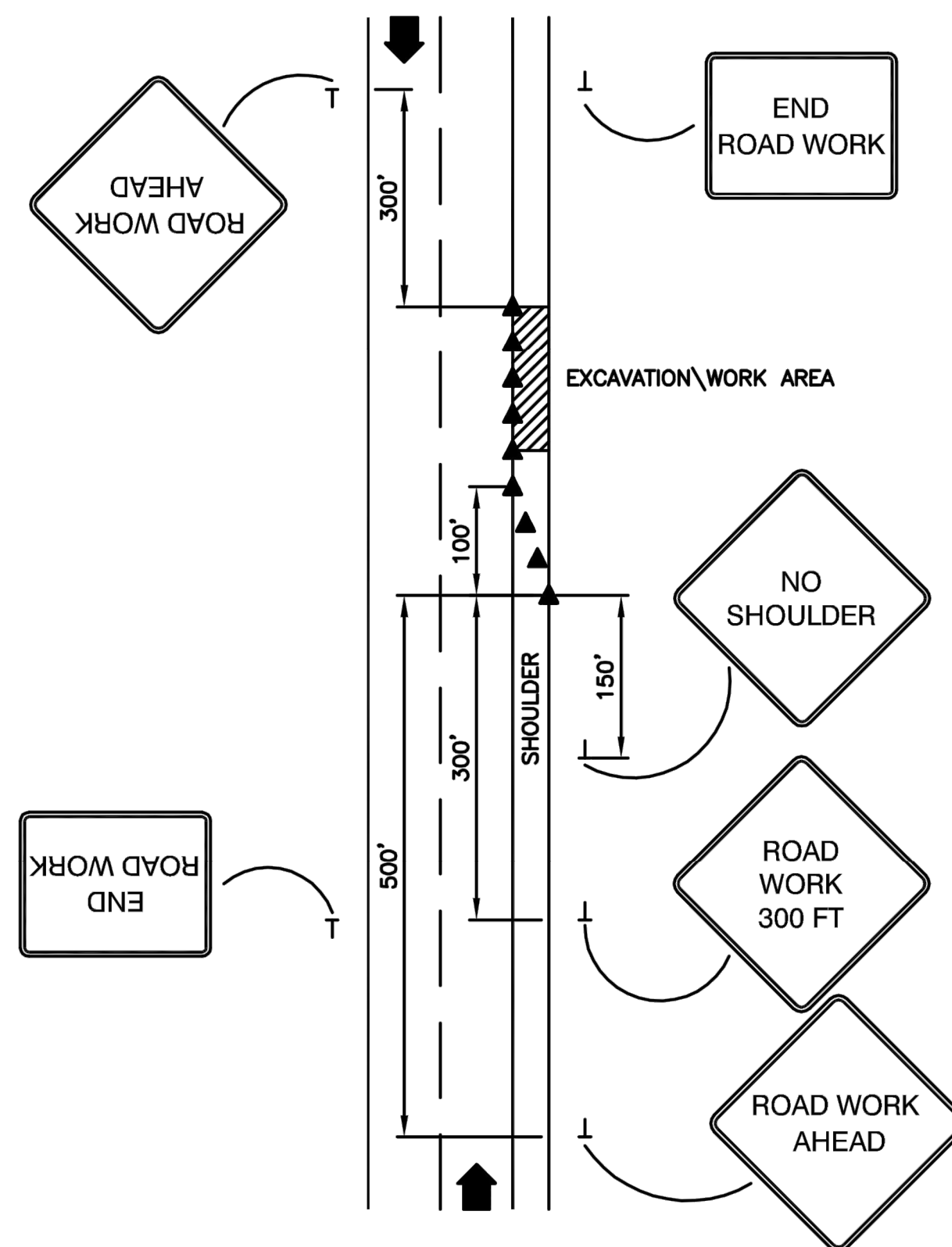
- PUMP OUT TANK, BY LICENSED WASTE HAULER.
- REMOVE COVER AND BREAK INTO RUBBLE. BREAK UP BOTTOM OF TANK. CAVE IN SIDE WALLS. COMPACT BROKEN TANK WITH BACK HOE BUCKET.
- FILL REMAINING VOID WITH #1 WASHED STONE AS USED IN LATERAL TRENCH.
- INSTALL NEW LATERAL THROUGH AREA WHERE TANK HAS BEEN ABANDONED.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

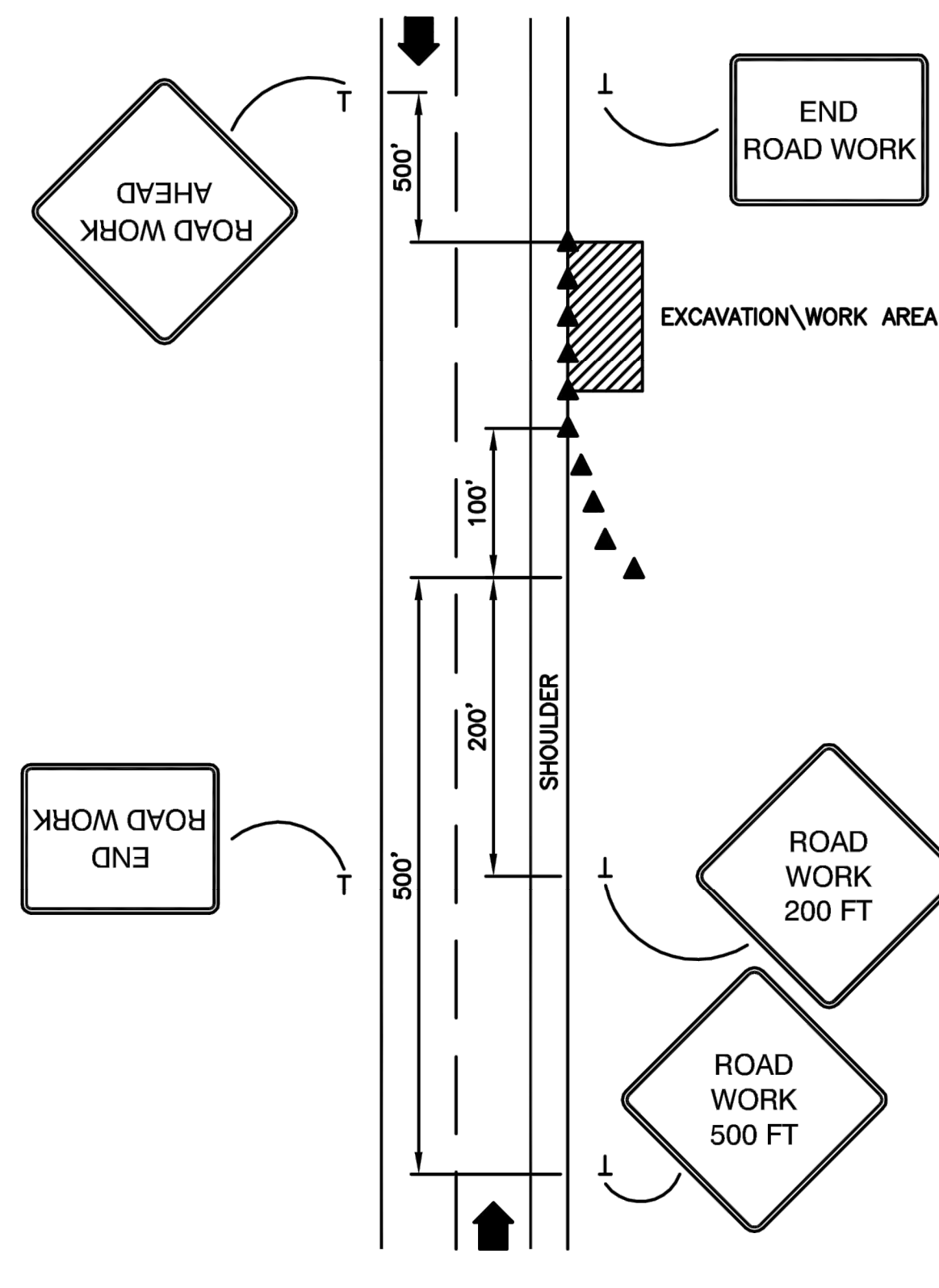
- THE CONTRACTOR SHALL BE AWARE THAT THE MAINTENANCE AND PROTECTION OF TRAFFIC IS A VERY CRITICAL ITEM OF THE CONTRACT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 "MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE STANDARD SPECIFICATIONS, AND THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS.
- DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY.
- SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT.
- THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE DIRECTOR OF ENGINEERING AND PLANNING OR HIS DESIGNEE.
- ALL SIGN NUMBERS REFER TO THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- DURING NON-WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN 30 FEET OF THE EDGE OF PAVEMENT.
- VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK ZONE.
- DURING WORKING HOURS, NO CONSTRUCTION MATERIAL SHALL BE STORED OR PLACED ON THE ROADWAY OR ROADWAY BED EXCEPT IN A PROTECTED WORK ZONE.
- NO DROP-OFF GREATER THEN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNAGE IS PROVIDED. PROPER DELINEATION SHALL CONSIST OF DRUMS, VERTICAL PANELS OR BARRICADES, PROVIDED THEY ARE PROPERLY PAINTED AND REFLECTORIZED IN ACCORDANCE WITH THE NYS M.U.T.C.D.. PROPER SIGNAGE SHALL CONSIST OF A W20-1 ROAD SIGN SERIES WHICH INCLUDES A W20-5R 'NO SHOULDER' SIGN. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER. REFERENCE SECTION 619-3.01G OF THE STANDARD SPECIFICATIONS. WHEN DRUMS ARE USED FOR DELINEATION OR THE CHANNELIZATION OF TRAFFIC, ONLY APPROVED PLASTIC DRUMS MAY BE USED. THESE DRUMS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S DIRECTIONS AND IN ACCORDANCE WITH THE PROVISIONS OF TABLE 619-1 OF THE STANDARD SPECIFICATIONS.
- W8-22 "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGNS SHALL BE PROMPTLY REMOVED, COVERED, OR FACED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
- THE FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY
- LIGHTED BARRICADES SHALL BE PROVIDED AROUND ANY EQUIPMENT OR MATERIAL STORED ADJACENT TO THE RIGHT OF WAY.

MONROE COUNTY DEPARTMENT OF PUBLIC HEALTH STANDARD SANITARY SEWER EXTENSION NOTES:

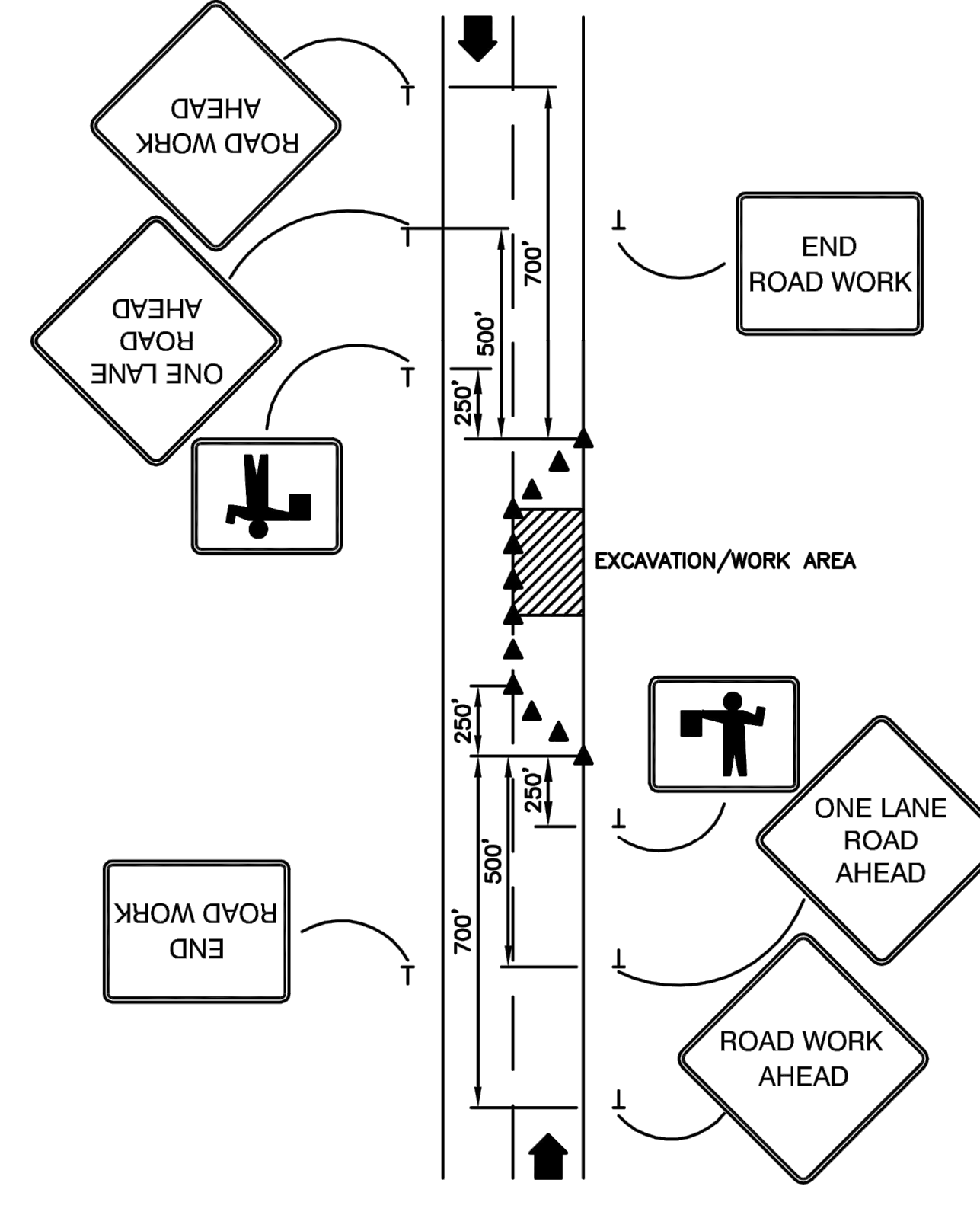
- MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER OF MILE OF PIPE PER DAY FOR THE SANITARY SEWER. AN AIR TEST WILL BE USED; THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM DESIGNATION C828-86. ENTITLED PRACTICE FOR LOW-PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES. SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EXFILTRATION OR VACUUM. VACUUM TESTING OF MANHOLES SHALL COMPLY WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (LATEST REVISION).
- FLOOR DRAINS, IF CONSTRUCTED IN THE PROJECT, MUST BE CONNECTED TO THE SANITARY SEWER. NOTE: FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUNDWATER. ALL DISCHARGED FROM THE FLOOR DRAINS TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR MONROE COUNTY SEWER USE LAW.
- DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN PIPE SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PIPELINE PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAIN PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FORM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.



35MPH TRAFFIC CONTROL FOR WORK DONE ADJACENT TO PAVEMENT

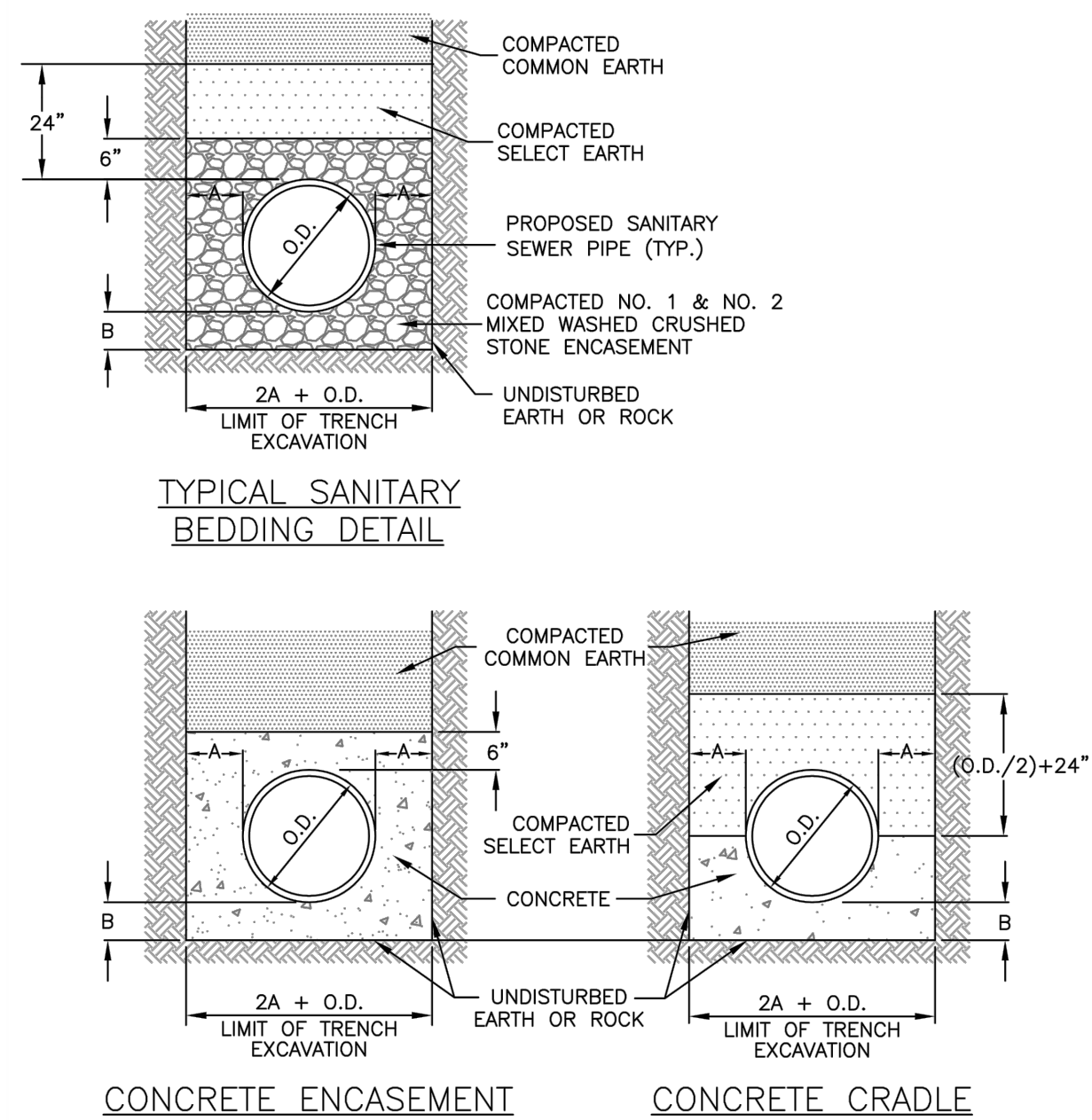


35MPH TRAFFIC CONTROL FOR WORK DONE ADJACENT TO SHOULDER



35MPH TRAFFIC CONTROL FOR WORK DONE IN DRIVING LANE

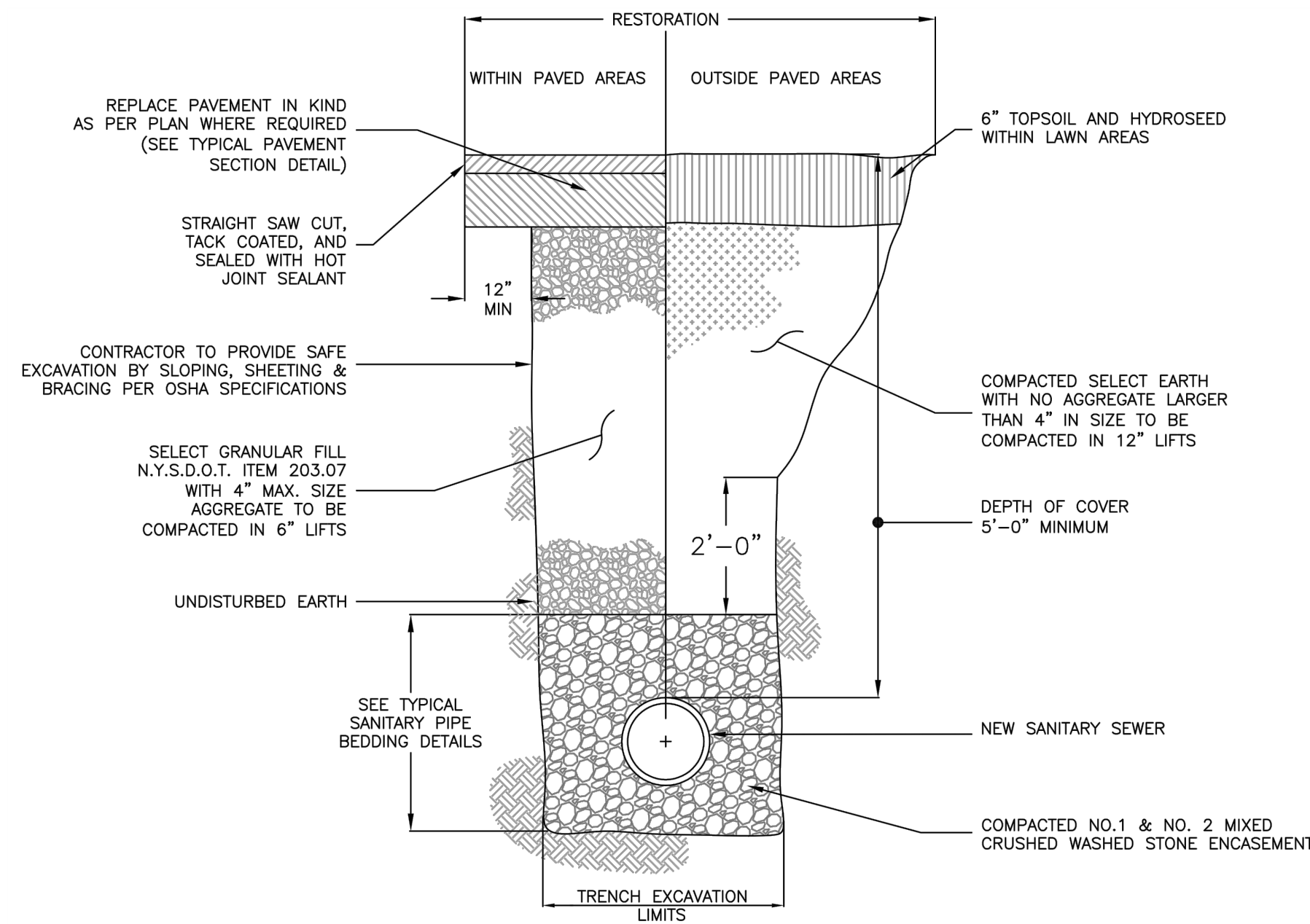
SCALE	N.T.S.	DATE	2/1/2022	JOB NO.	T21-01	DESIGNED BY	C. MARTIN	DRAWN BY	J. DIFILIPPO	CHECKED BY	C. MARTIN	APPROVED BY	C. MARTIN
TOWN OF HENRIETTA 475 CALKINS ROAD HENRIETTA, N.Y. 14467													
LEHIGH STATION ROAD SANITARY SEWER - PHASE 2 NOTES													
DWG. NO. C200 SHEET NO. 4 of 6													



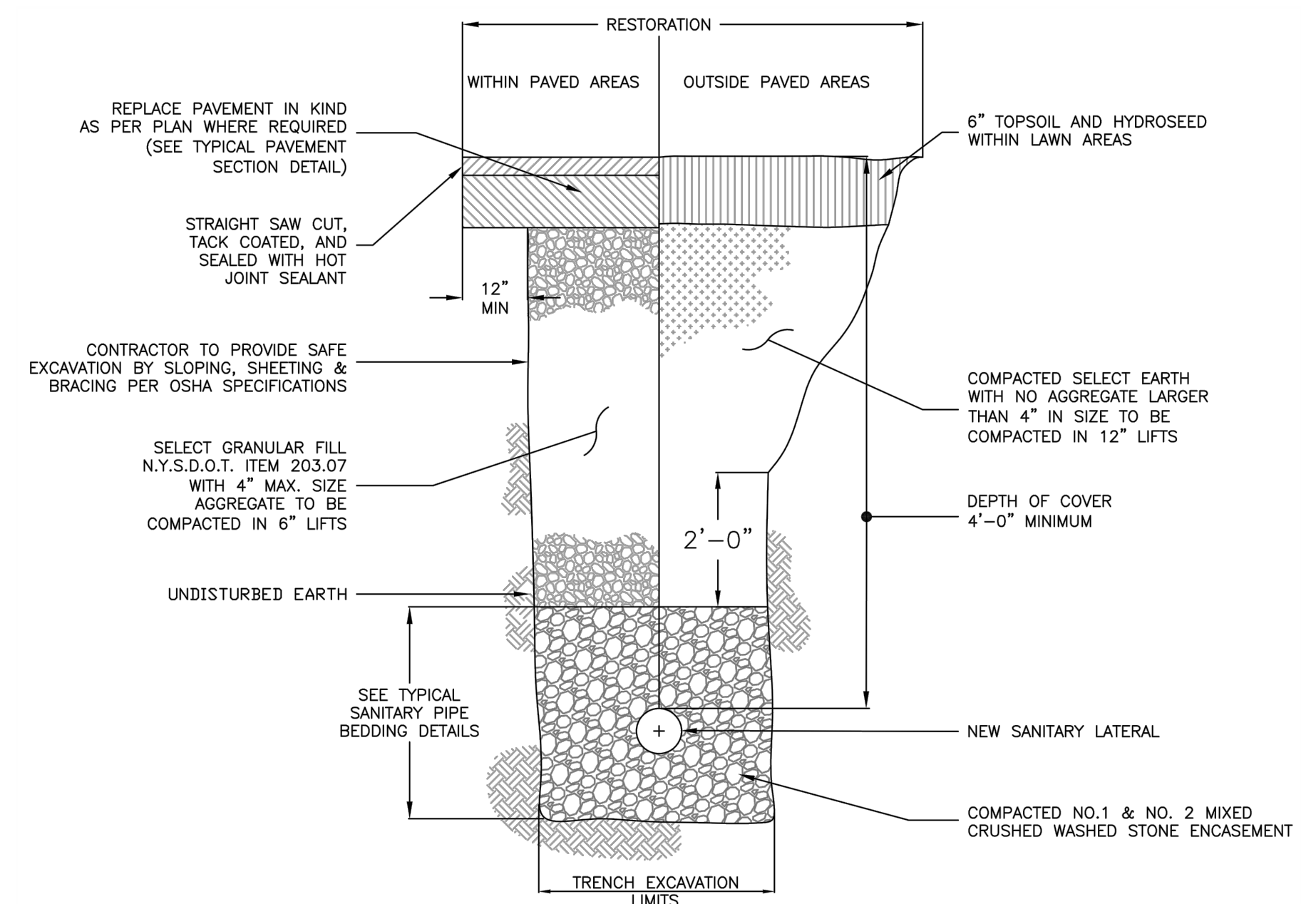
PIPE DIA.	A	B
UP TO 18"	12"	6"
21" TO 36"	18"	9"
OVER 36"	24"	12"

- NOTES:**
- ALL SANITARY SEWER PIPE SHALL BE 8" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-35), BELL & SPIGOT TYPE & RUBBER GASKET.
 - ALL SANITARY LATERAL PIPE SHALL BE 4" MINIMUM PIPE DIAMETER, POLYVINYL CHLORIDE PIPE (PVC SDR-21), BELL & SPIGOT TYPE & RUBBER GASKET OR SCHEDULE 40.
 - SELECT EARTH SHALL BE SAND GRAVEL AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FROZEN MATERIAL AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSIONS.
 - STONE ENCASEMENT SHALL MEAN APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NYS DOT, STANDARD SPECIFICATION, MAY 1, 2008 EDITION PAGES 7-14, SUBSECTION 703-0201 "CRUSHED STONE", PRIMARY SIZE OR A MIXTURE OF PRIMARY SIZES 1 AND 2.
 - CONCRETE SHALL BE CAST-IN-PLACE CLASS "A" MEETING NYS DOT SECTION 501 SPECIFICATIONS.

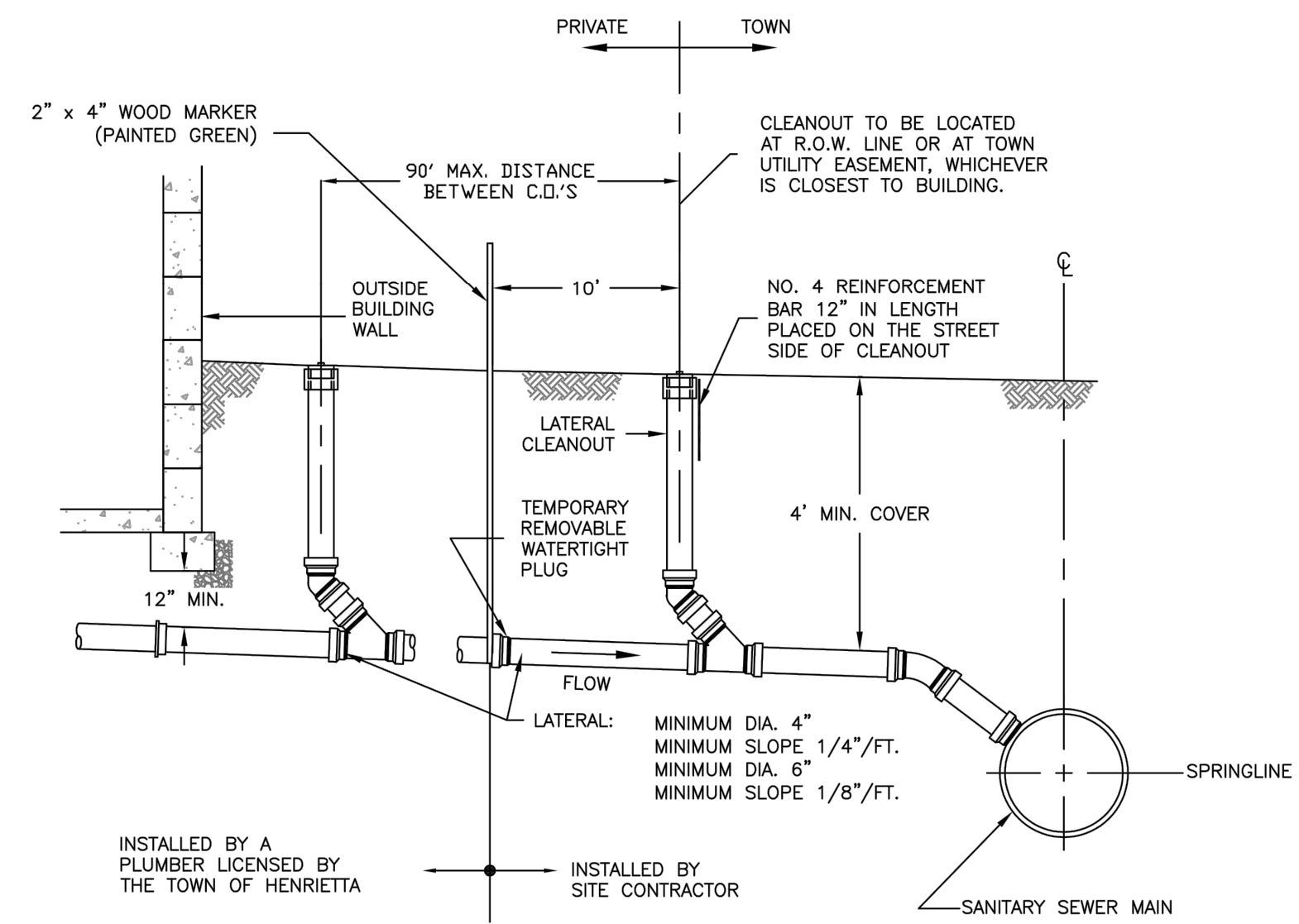
SANITARY PIPE BEDDING (SA-01)
N.T.S.



TYPICAL SANITARY SEWER TRENCH (SA-02)
N.T.S.

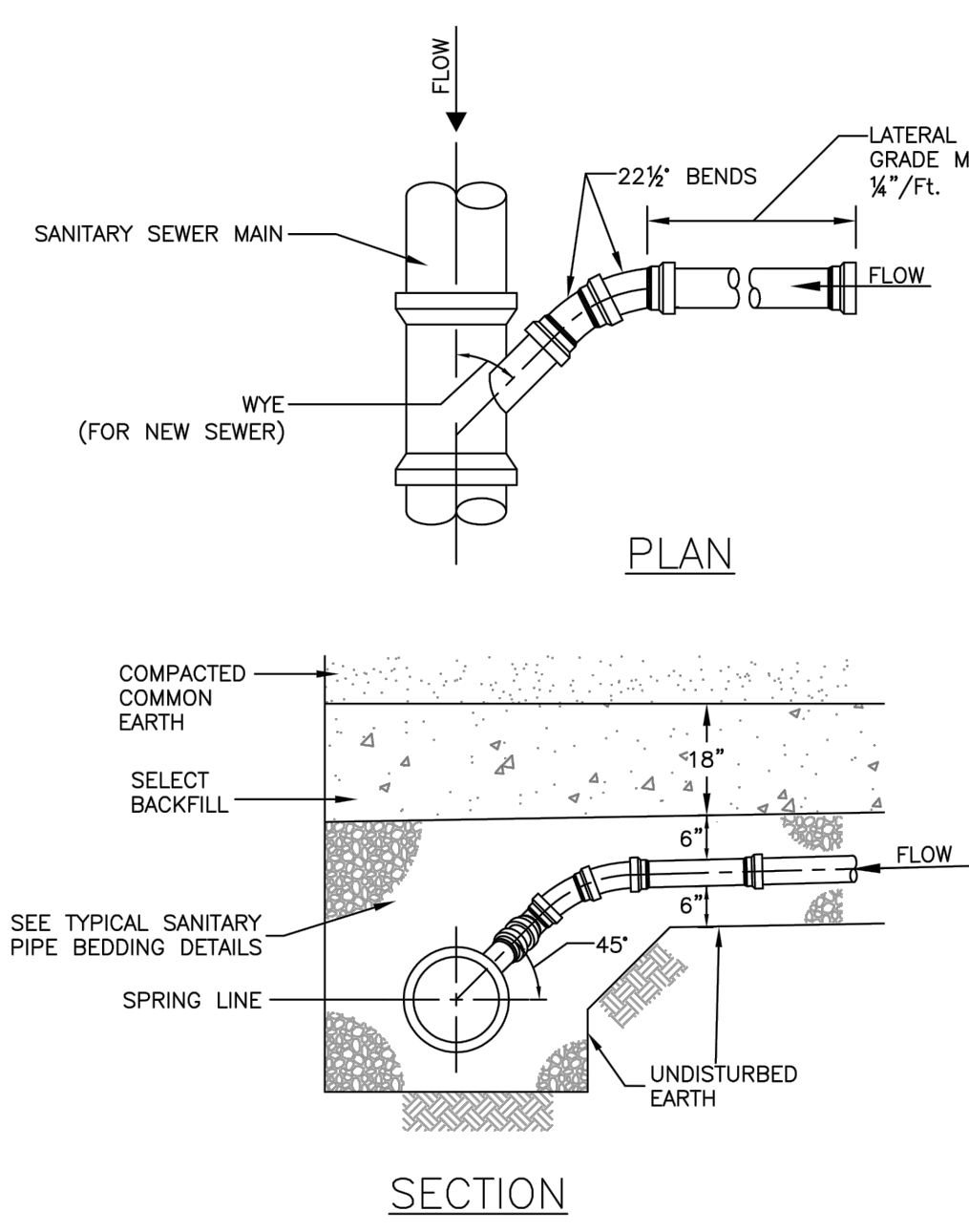


TYPICAL SANITARY LATERAL TRENCH (SA-03)
N.T.S.

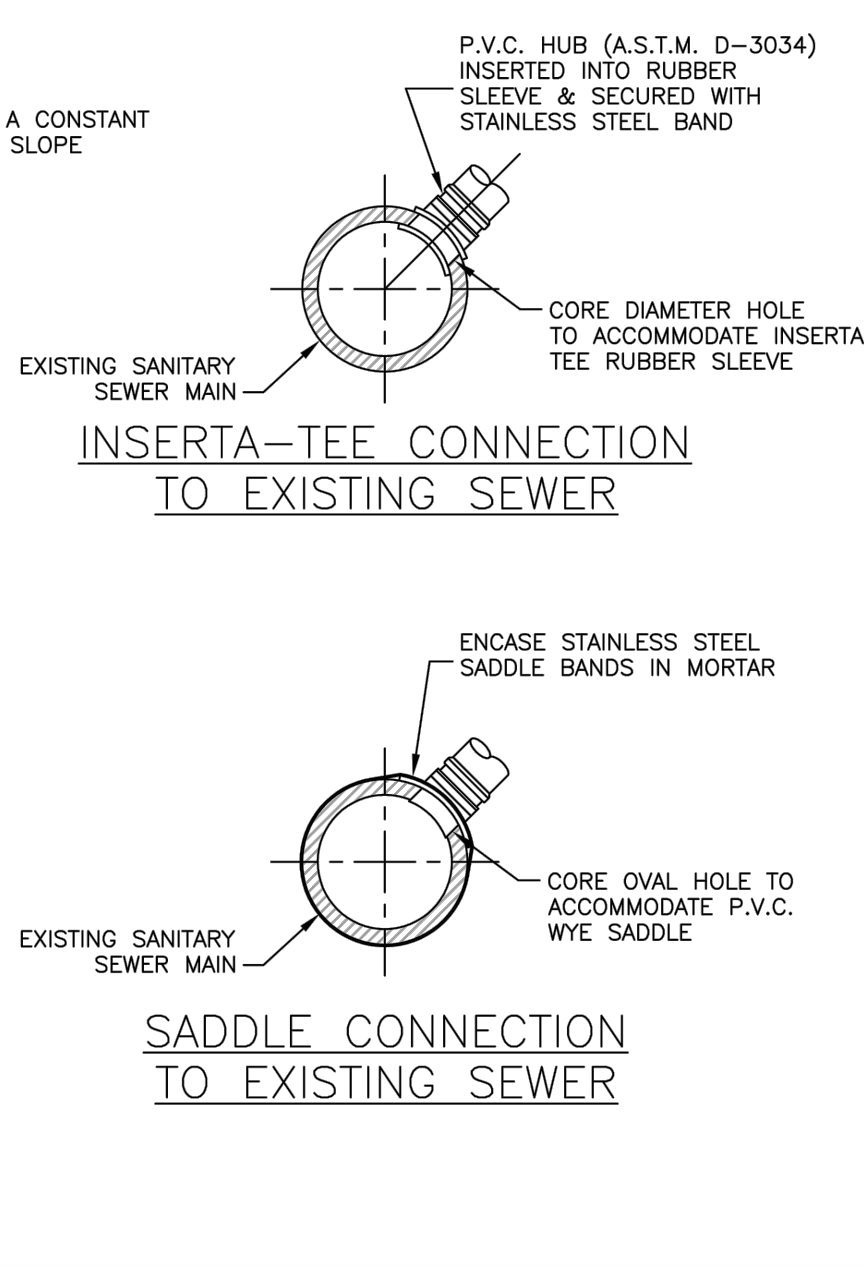


- NOTES:**
- WHEN THE SEWER MAIN IS LESS THAN 8 FT. IN DEPTH, THE LATERAL SHALL HAVE A CONSTANT GRADE TO THE SEWER MAIN CONNECTION.
 - WHEN THE SEWER MAIN IS GREATER THAN 8 FT. IN DEPTH, A RISER SECTION MAY BE USED TO CONNECT THE CONSTANT GRADE LATERAL WITH THE SEWER MAIN.
 - FOR "HUNG" PLUMBING, PROVIDE 4" MIN. COVER OVER LATERAL AT THE BASEMENT WALL AND ALONG THE ROUTE OF THE LATERAL.
 - THE MATERIAL FOR THE SANITARY LATERAL SHALL BE PVC SDR-21.

TYPICAL HOUSE SANITARY LATERAL PROFILE (SA-04)
N.T.S.

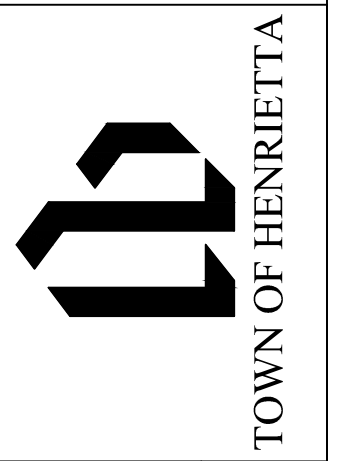
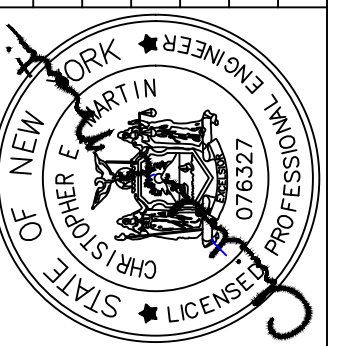


SANITARY LATERAL CONNECTION (SA-05)
N.T.S.



SANITARY LATERAL RISER (SA-06)
N.T.S.

SCALE	N.T.S.	DATE	2/7/2022	JOB NO.	T21-01	DESIGNED BY	C. MARTIN	DRAWN BY	J. DIFILIPPO	CHECKED BY	C. MARTIN	APPROVED BY	C. MARTIN	REVISIONS	INITIALS	DATE

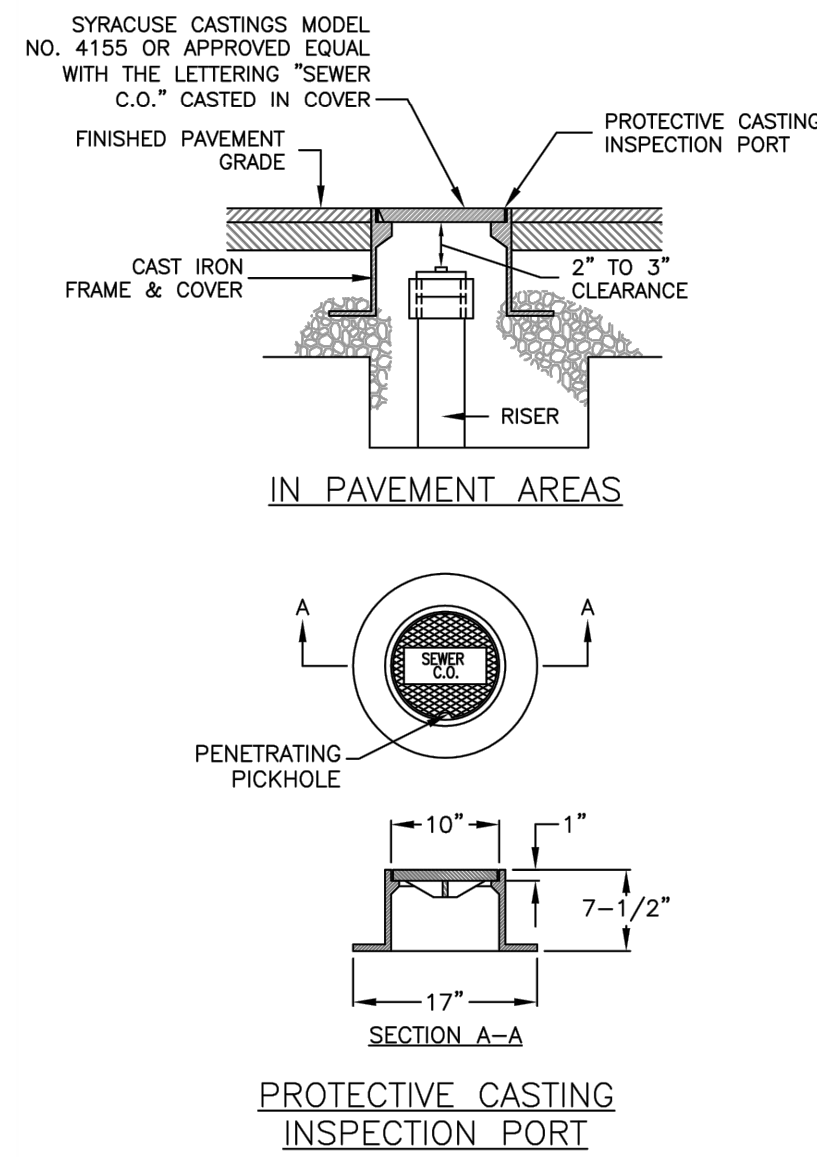


TOWN OF HENRIETTA
475 CALKINS ROAD
HENRIETTA, N.Y. 14467

LEHIGH STATION ROAD SANITARY SEWER - PHASE 2
DETAILS-1

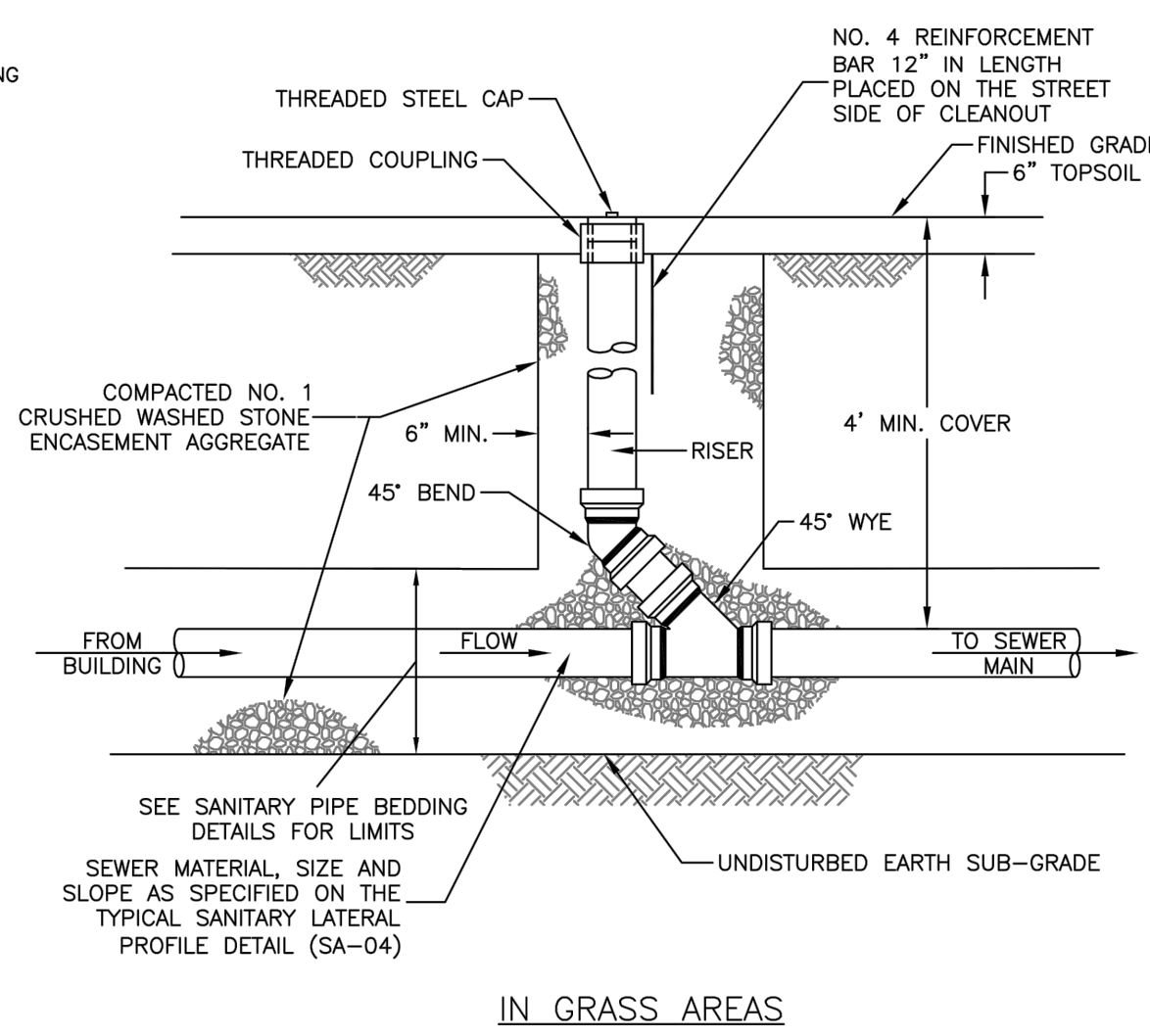
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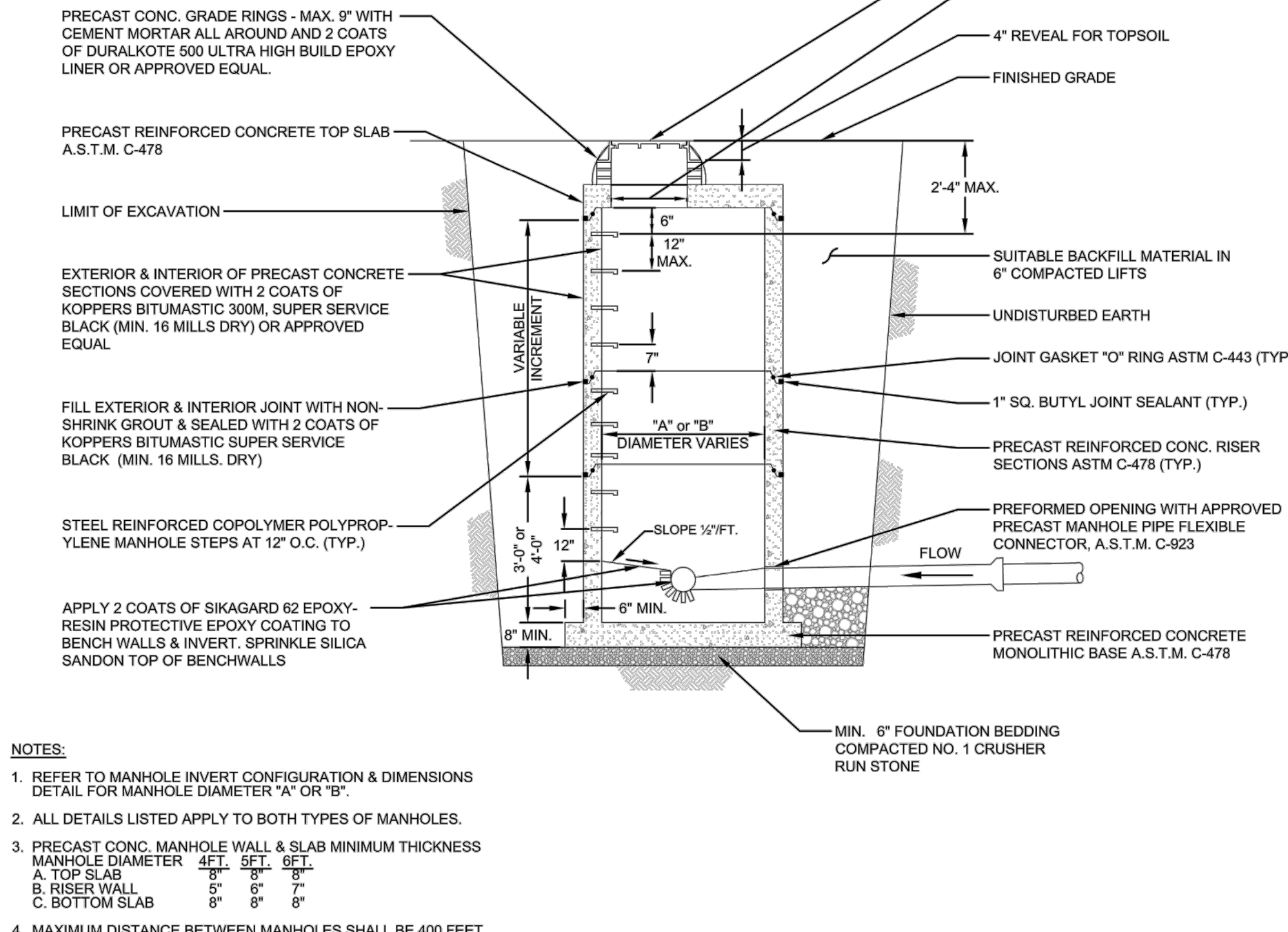


- NOTES:**
- MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 30B.
 - HEAVY DUTY CASTING SHALL BE DESIGNED FOR A.A.S.H.T.O. H20-16 WHEEL LOADS.

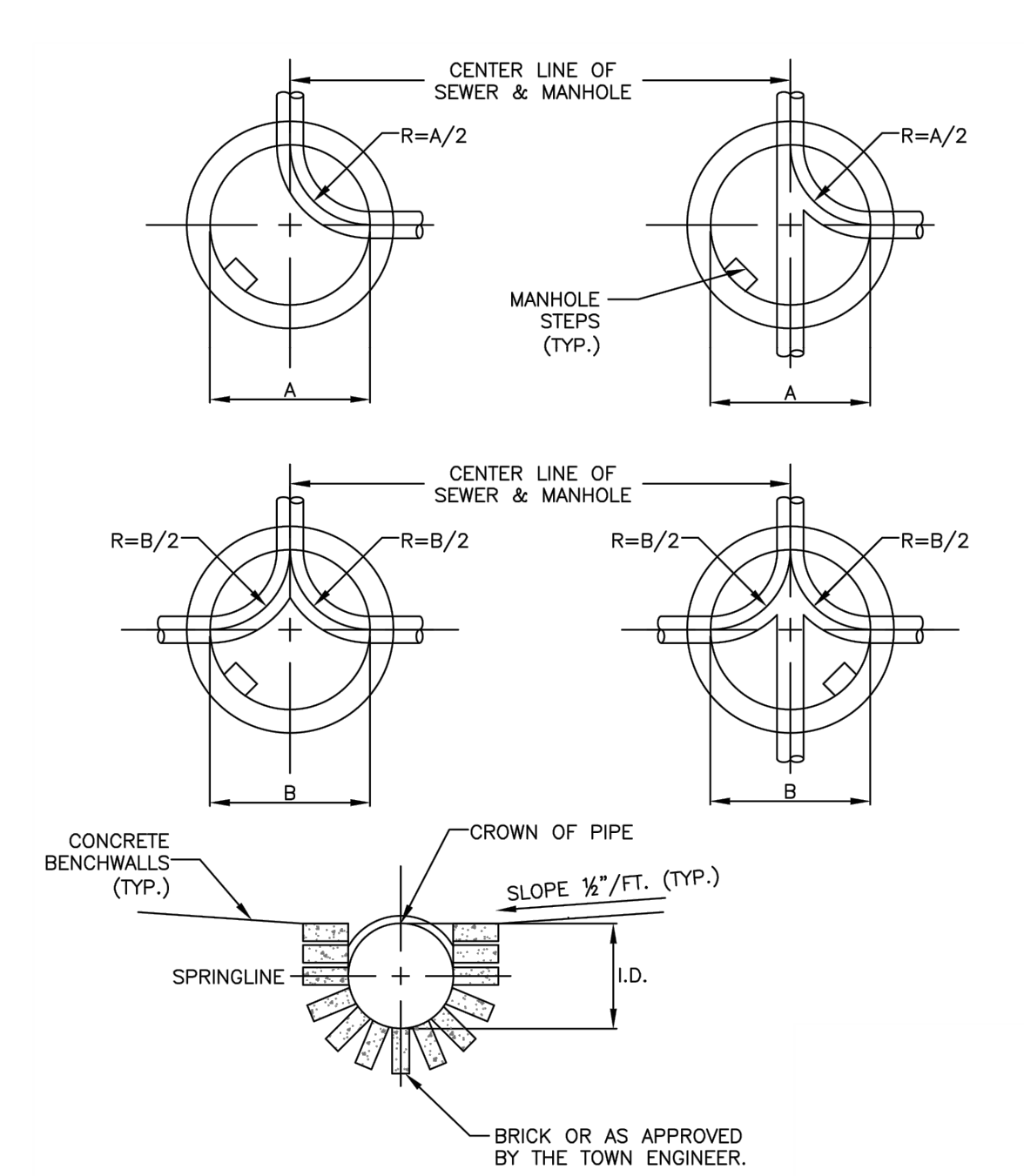
SANITARY LATERAL CLEANOUT (SA-07)
N.T.S.



SANITARY LATERAL CLEANOUT (SA-07)
N.T.S.



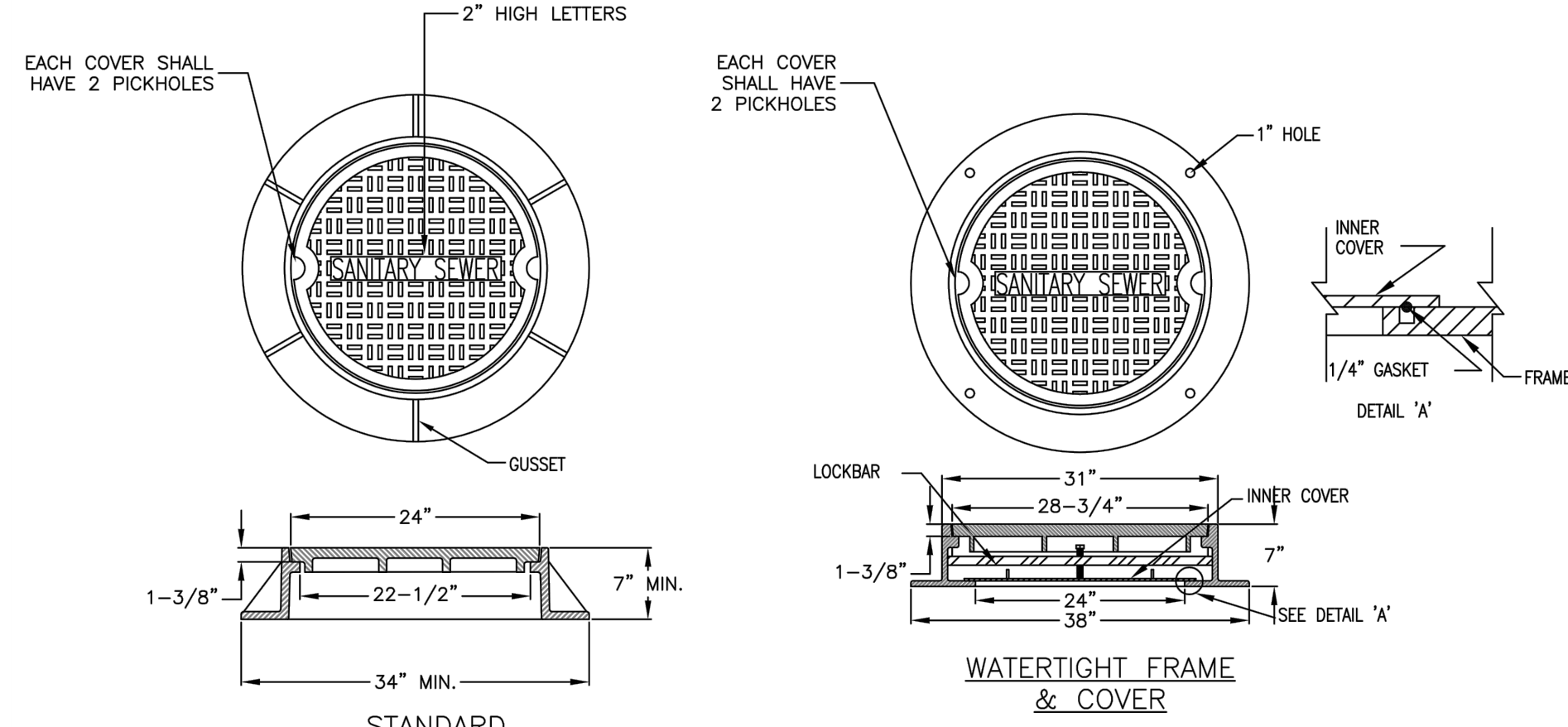
SANITARY MANHOLE DETAIL (SA-08)
N.T.S.



MIN. PIPE DIA.	DIMENSION				
	A	B	A	B	A
8"	4'-0"	5'-0"	4'-0"	5'-0"	4'-0"
10"	4'-0"	5'-0"	4'-0"	5'-0"	4'-0"
12"	4'-0"	5'-0"	4'-0"	5'-0"	4'-0"
15"	5'-0"	6'-0"	5'-0"	6'-0"	5'-0"
18"	5'-0"	6'-0"	5'-0"	6'-0"	5'-0"

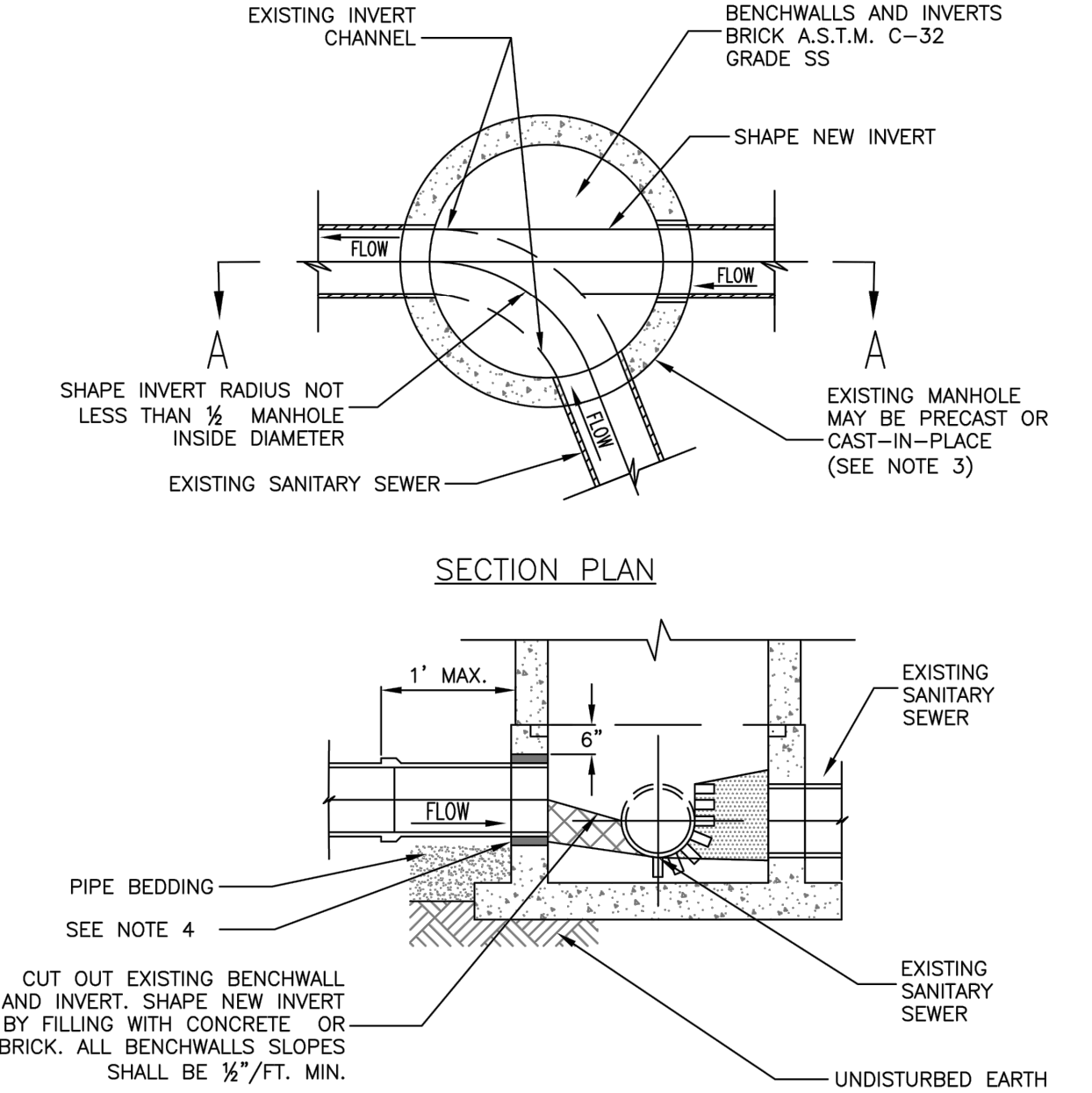
- NOTES:**
- DIMENSIONS A & B ARE GOVERNED BY OUTLET DIAMETER.
 - INVERT SLOPES:
 - STRAIGHT THROUGH PIPE-SLOPES SHALL BE A MINIMUM 0.10' DROP ACROSS MANHOLE.
 - 90° BENDS - PROVIDE MINIMUM 0.25' DROP ACROSS MANHOLE.
 - WHERE TWO OR MORE PIPES ENTER A MANHOLE THE STEEPER OF SLOPES ABOVE WILL DETERMINE THE OUTLET ELEVATION.
 - WHERE PIPES ARE OF DIFFERENT SIZE, SLOPE SHALL BE AS DETERMINED BY CONTRACT PLANS.

SANITARY MANHOLE INVERT CONFIGURATIONS (SA-09)
N.T.S.



- NOTES:**
- MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 30B.
 - HEAVY DUTY CASTING SHALL BE DESIGNED FOR A.A.S.H.T.O. H20-16 WHEEL LOADS.
 - THE STANDARD CASTING SHALL BE MODEL NO. 1032 & WATER TIGHT CASTING MODEL NO. 6545 AS MANUFACTURED BY SYRACUSE CASTING SALES CORP. OR APPROVED EQUAL.

SANITARY MANHOLE FRAME AND COVER (SA-10)
N.T.S.



- NOTES:**
- THE CROWN OF THE NEW SEWER SHALL NOT BE CONSTRUCTED LOWER THAN THE CROWN OF THE EXISTING MAIN SEWER. THE INVERT OF THE NEW SEWER SHALL BE CONSTRUCTED AT LEAST 3" ABOVE THE EXISTING MAIN SEWER INVERT.
 - EXISTING MANHOLE STRUCTURE SHALL BE SUFFICIENTLY BRACED AND PROTECTED TO PREVENT ANY SHIFTING OR DAMAGE TO THE MANHOLE.
 - THE EXISTING MANHOLE BASE MAY BE ROUND OR SQUARE OR CAST-IN-PLACE CONCRETE DEPENDING ON HOW THE MANHOLE WAS CONSTRUCTED.
 - CORE DIAMETER HOLE TO ACCOMMODATE EPOXY SAND COLLAR HUB (P.V.C.) OR P.V.C. EMBEDDED INTO MANHOLE AND SEALED WITH EPOXY MORTAR DURAL 33 OR FLEXOLITH GEL. NO IMPACT DEVICES WILL BE ALLOWED TO BE USED FOR MAKING NEW HOLES.
 - THE INTERIOR OF SANITARY MANHOLE BASE SECTION TO BE 12" MIN. ABOVE THE HIGHEST PIPE. THE INVERT AND BENCHWALL SHALL BE COATED WITH 2 COATS OF SIKAGARD 62 SPRINKLE SILICA SAND ON TOP OF BENCHWALLS. ALL OTHER SURFACES SHALL HAVE 2 COATS KOPPERS SUPER SERVICE BLACK.
 - PIPE ENTERING INTO SANITARY MANHOLE SHALL NOT EXCEED 90 DEGREES ALIGNMENT AGAINST EXISTING SANITARY SEWER MAIN FLOW.
 - CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL BE NOT LESS THAN 6" FROM A RISER JOINT.
 - THE TOWN MUST BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION FOR INSPECTION OF CONNECTION.

SANITARY SEWER CONNECTION TO EXISTING MANHOLE (SA-12)
N.T.S.

SCALE	DATE	JOB NO.	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION	INITIALS	DATE
N.T.S.	2/1/2022	T21-01	C. MARTIN	J. DIFILIPPO	C. MARTIN	C. MARTIN	REVISIONS		

TOWN OF HENRIETTA
475 CALKINS ROAD
HENRIETTA, N.Y. 14467

LEHIGH STATION ROAD SANITARY SEWER - PHASE 2
DETAILS-2

DWG. NO. C220
SHEET NO. 6 of 6