

CITY OF NORTH ROYALTON

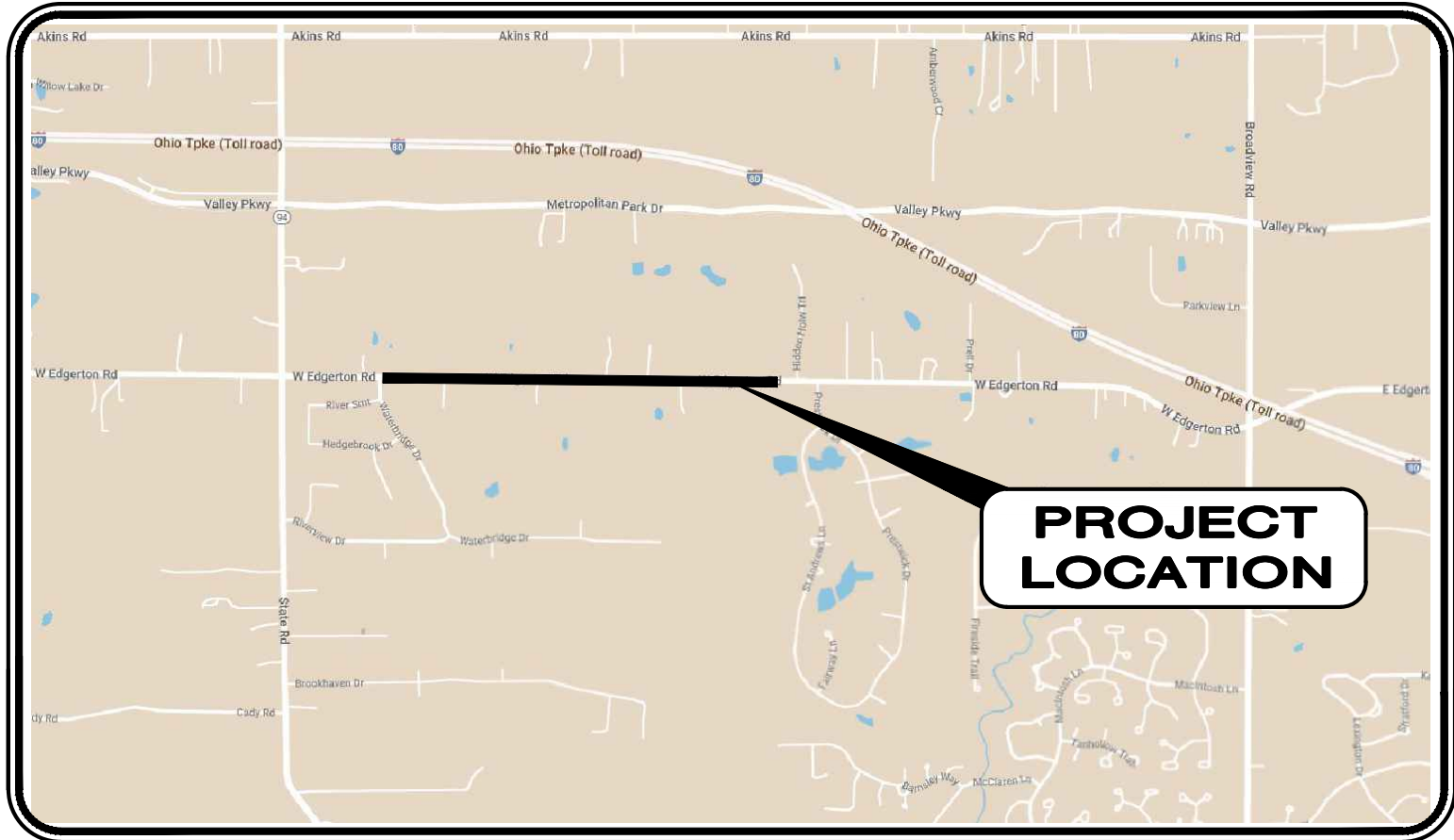
EDGERTON ROAD

SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY, OHIO

JUNE, 2025

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LOCATION MAP
NOT TO SCALE

NORTH ROYALTON CITY OFFICIALS

LARRY ANTOSKIEWICZ
EDWARD HALLER

MAYOR
WASTEWATER SUPERINTENDENT

NORTH ROYALTON CITY COUNCIL MEMBERS

PAUL MARNECHECK
HELEN DUNLAP
JOHN NICKELL
LINDA BARATH
JOANNE KREJCI
MARY GORJANC
HEIDI WEBBER
MIKE WOS

PRESIDENT OF COUNCIL
CLERK OF COUNCIL
WARD 1
WARD 2
WARD 3
WARD 4
WARD 5
WARD 6

UTILITIES

THE FOLLOWING IS THE LIST OF POTENTIAL UTILITY OWNERS WITHIN THE LIMITS OF CONSTRUCTION:

WATER
CITY OF CLEVELAND
DIVISION OF WATER
1201 LAKESIDE AVENUE,
CLEVELAND, OH. 4411
ATTN: FRED ROBERTS
PHONE: (216) 664-2444,
EXT. 75590
FAX: (216) 664-2838

ELECTRIC
CEI, FIRST ENERGY
6896 MILLER RD., STE 101
BRECKSVILLE, OH. 44141
ATTN: FRANK DIBBS
PHONE: (440) 546-8748
FAX (440) 546-8773

GAS
ENBRIDGE
320 SPRINGSIDE DR., STE 320
AKRON, OH. 44333
ATTN: BRYAN DAYTON
PHONE: (330) 664-2409
EMERGENCY DISPATCH NO.:
(216) 736-6651
FAX: (216) 736-6883

GAS
COLUMBIA GAS OF OHIO
7080 FRY ROAD
MIDDLEBURG HTS, OH 44130
ATTN: DAN SUREN
PHONE: (440) 891-2428
FAX: (440) 891-2497

TELECOMMUNICATIONS
VERIZON
120 RAVINE STREET
AKRON, OH 44303
ATTN: AL GUEST
PHONE: (330) 253-8267

TELECOMMUNICATIONS
SBC (AT&T)
13630 LORAIN AVENUE
2ND FLOOR
CLEVELAND, OHIO 44111
ATTN: JAMES JANIS
PHONE: (216) 476-6142
FAX: (216) 476-6013

CABLE
BREEZELINE
105 BLAZE INDUSTRIAL PARKWAY
BEREA, OHIO 44017
ATTN: LAWRENCE BURRUEL
PHONE: (440) 915-9256

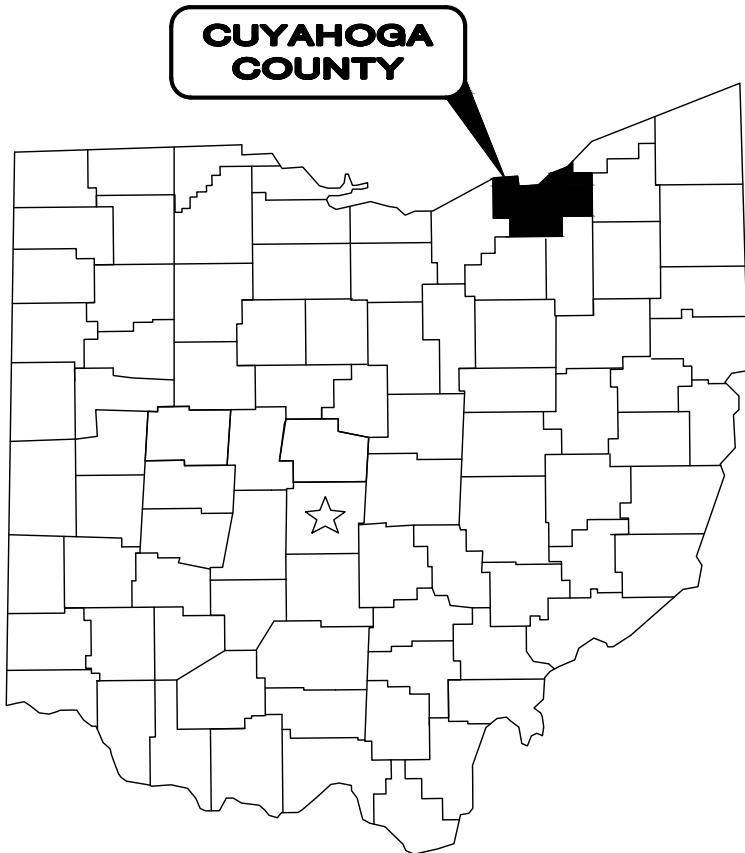
CABLE
SPECTRUM CABLE/
TIME WARNER CABLE
8179 DOW CIRCLE
STRONGSVILLE, OH. 44136
ATTN: MARK HOEFLE (EXT: 5034)
ATTN: GARY NAUMANN (EXT: 5033)
PHONE: (216) 854-0717
PHONE: (216) 555-5036
(FOR CONSTRUCTION)
FAX: (440) 826-2939

CITY OF NORTH ROYALTON DEPARTMENT CONTACTS

SERVICE DEPARTMENT
11545 ROYALTON ROAD
NORTH ROYALTON, OH. 44133
ATTN: NICK CINQUEPALMI,
SERVICE DIRECTOR
PHONE: (440) 582-3002

WASTE WATER TREATMENT PLANT
11675 ROYALTON ROAD
NORTH ROYALTON, OH. 44133
ATTN: EDWARD HALLER,
SUPERINTENDENT
PHONE: (440) 237-5010

NORTH ROYALTON POLICE DEPT.
14000 BENNETT ROAD
NORTH ROYALTON, OH. 44133
PHONE: (440) 237-8686



1. UNDERGROUND UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE.

2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

Justin Haselton

JUSTIN HASELTON
CITY ENGINEER

05/01/2025
DATE



CITY OF NORTH ROYALTON SANITARY SEWER GENERAL NOTES AND MISCELLANEOUS NOTES

1. ALL WORKMANSHIP, CONSTRUCTION, MATERIALS AND MATERIAL SPECIFICATIONS FOR SEWERS ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE ORDINANCES OF THE CITY OF NORTH ROYALTON. WHERE CONFLICTS OCCUR IN THE ABOVE, THE ENGINEER OF THE CITY OF NORTH ROYALTON SHALL DETERMINE THE GOVERNING AUTHORITY.

2. ALL SEWER REPAIRS AND/OR SECTIONS OF SEWER INSTALLATION SHALL BE VISUALLY INSPECTED BY MEANS OF TELEVISIONING AND RECORDING ON USB FLASH DRIVE FORMAT ALONG WITH AUDIO COMMENTARY. THE TELEVISIONING AND VIDEOTAPE RECORDING SHALL BE PERFORMED ONCE AFTER SEWER CONSTRUCTION IS COMPLETE. TELEVISIONING SHALL BE AS PER SPECIFICATION 330130.11. ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY THE VISUAL-AID INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY AND TO THE FULL SATISFACTION OF THE CITY AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL COST OF CLEANING ALL SEWERS PRIOR TO VISUAL INSPECTION. COST OF TELEVISIONING AND VIDEOTAPE OPERATION SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

3. ALL SEWER TRENCHES AND STRUCTURE EXCAVATIONS SHALL BE BACKFILLED TO NATURAL OR FINISHED GRADE AS SOON AS CONDITIONS PERMIT. ALL BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE CITY ENGINEER.

4. PREMIUM BACKFILL, APPROVED BY THE ENGINEER, SHALL BE USED UNDER OR WITHIN A 1:1 ZONE OF INFLUENCE OF ALL PAVEMENT AREAS, INCLUDING SIDEWALKS AND DRIVE APRONS WHERE A TRENCH IS UNDER, OR WITHIN 1 FOOT OF A PAVED AREA, THE TRENCH SHALL BE BACKFILLED WITH O.D.O.T. ITEM 304 AND FIRMLY COMPACTED. BACKFILLING SHALL BE ACCOMPLISHED BY PLACING FILL IN TRENCH IN LIFTS NOT TO EXCEED 1 FOOT & FIRMLY COMPACTING EACH LAYER BEFORE ADDITIONAL FILL IS PLACED.

5. PREMIUM BACKFILL MATERIAL SHALL CONFORM TO O.D.O.T. ITEM 304-AGGREGATE BASE OR AN APPROVED EQUAL MATERIAL.

6. CONTACT THE UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS IN ADVANCE OF WORK TO BE DONE NEAR ANY EXISTING UTILITY MAIN.

7. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

8. SANITARY SEWERS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE OF THE A.S.T.M. DESIGNATION D 3034 (SDR 35). PIPE SHALL BE OF O-RING JOINTING MATERIAL OF THE COMPRESSION TYPE PREMIUM JOINT PER A.S.T.M. D-3212, OR APPROVED EQUAL PIPE WITH PREMIUM JOINTS. ALL DIRECTIONALLY DRILLED SANITARY SEWER SHALL BE HDPE (DIPS) 8", RATED FOR SANITARY SEWAGE WITH FUSED JOINTS.

9. ALL SEWERS SHALL HAVE A 6" MINIMUM GRANULAR BEDDING (CLASS B).

10. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES. ANY ADDITIONAL LABOR, EQUIPMENT OR COST INVOLVED IN MAINTAINING THIS FLOW, BY PUMPING OR BY ANY OTHER APPROVED METHOD WHICH IS NECESSARY FOR COMPLETION OF THIS PROJECT, SHALL BE INCLUDED IN THE OTHER ITEMS.

11. THE CONTRACTOR SHALL SUPPORT ALL EXISTING UTILITIES AND EXISTING SERVICE CONNECTION DURING CONSTRUCTION. ANY EXISTING UTILITIES AND EXISTING SERVICE CONNECTIONS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND RESTORED AT THE CONTRACTORS EXPENSE.

12. WHERE THE PLANS PROVIDE FOR PROPOSED SEWER TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY BOTH AS TO LINE AND GRADE, BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. THERE WILL BE NO EXTRA PAYMENT FOR THE ABOVE.

13. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

14. THE CONTRACTOR SHALL NOTIFY THE CITY OF NORTH ROYALTON FORTY-EIGHT (48) HOURS PRIOR TO STARTING CONSTRUCTION. (440-582-3001)

15. COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 IS REQUIRED OF ALL CONTRACTORS ON THIS PROJECT.

16. ALL DISTURBED SIGNS, GUARD RAILS, FENCES, MAIL BOXES AND/OR PAPER BOXES, DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE CITY. THE COST OF SUCH SHALL BE INCLUDED IN THE PRICE BID OF OTHER ITEMS.

17. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING DURING CONSTRUCTION.

18. ANY DEFECT IN THE CONSTRUCTION, INCLUDING MATERIAL AND WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS, PRIOR TO ACCEPTED BY THE CITY WITHOUT ANY EXTRA COST.

19. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATED MATERIAL WITHOUT ANY ADDITIONAL COMPENSATION.

20. ALL DISTURBED AREAS SHALL BE SEEDED AND/OR SODDED.

21. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

22. ALL SANITARY SEWERS AND MANHOLES SHALL BE TESTED AND INSPECTED PER SPECIFICATION 013319.
23. THE CONTRACTOR SHALL INVESTIGATE THE NATURE OF THE GROUND AT THE SITE OF THE PROPOSED WORK AND PAY PARTICULAR ATTENTION TO ANY SOIL CONDITION THAT MAY AFFECT THE PROGRESS OF THE WORK. THE OWNER MAKES NO GUARANTEE, IMPLIED OR EXPRESSED REGARDING THE GROUND CONDITIONS.

24. ALL WORK CONTEMPLATED IS SUBJECT TO THE DIRECT INSPECTION OF THE CITY ENGINEER OF NORTH ROYALTON OR HIS DULY AUTHORIZED REPRESENTATIVE.

25. CONTRACTOR SHALL COMPLY WITH THE CITY OF NORTH ROYALTON EROSION AND SEDIMENT CONTROL PROCEDURES AND/OR ORDINANCES.

26. TEMPORARY SEEDING REQUIRED FOR ALL DISTURBED AREAS WHERE ADDITIONAL GRADING IS NOT SCHEDULED FOR A PERIOD OF 15 DAYS TO LESS THAN 45 DAYS.

27. IF DURING CONSTRUCTION ANY UNFORESEEN EROSION IS ENCOUNTERED, ADDITIONAL EROSION CONTROL MEASURES, SHALL BE PROVIDED AT THE DIRECTION OF THE ENGINEER.

28. SEWER CONNECTION SHALL BE AS SHOWN ON THE PLAN OF P.V.C. PIPE MATERIAL (SAME AS SEWER SPECIFICATIONS) INSTALLED AT A MINIMUM 1% GRADE OR APPROVED EQUAL. ALL LATERALS SHALL BE BORED UNDER EDGERTON RD.

29. PRECAST CONCRETE MANHOLE WILL BE USED FOR ALL SANITARY SEWERS. MANHOLE SHALL CONFORM TO A.S.T.M. C-478 AND JOINTS TO CONFORM TO A.S.T.M. C-443.

30. ALL MANHOLES SHALL BE SET TO GRADE PER IMPROVEMENT PLANS, BY THE CONTRACTOR AT THE TIME OF INSTALLATION.

31. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH ODOT ITEM 614. HE SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, LIGHTS, FENCES, ETC. AS REQUIRED BY THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY SIGNS, BARRICADES, PAVEMENT MARKINGS, LIGHTS, FENCES, ETC.

32. THE CONTRACTOR IS RESPONSIBLE FOR VIDEOTAPE ALL RIGHT-OF-WAY AREAS AND EASEMENT AREAS AFFECTED BY THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS.

33. THE CONTRACTOR SHALL FURNISH ALL CONSTRUCTION LAYOUT STAKING NECESSARY FOR THE PROJECT.

34. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, FURNISH AN AS-BUILT DRAWING TO THE CITY OF NORTH ROYALTON FOR THE PROJECT. ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER AND/OR SURVEYOR. ALL DRAWINGS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND/OR SURVEYOR. THE CONTRACTOR SHOULD INCLUDE COST OF THIS WORK INTO OTHER ITEMS.

35. ANY CHANGES IN THE IMPROVEMENTS AFTER THE CONSTRUCTION PLANS ARE APPROVED SHALL BE MADE BY A CHANGE ORDER APPROVED BY THE ENGINEER.

36. ALL CLEARING AND GRUBBING SHALL BE DONE IN ACCORDANCE WITH ODOT "CONSTRUCTION AND MATERIAL SPECIFICATIONS" ITEM 201.

37. ALL PRECAST SANITARY MANHOLES ARE TO BE INSPECTED AND TESTED FOR WATERTIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE. AIR TESTING SHALL CONFORM TO THE TEST PROCEDURES IN ASTM C-1244.

38. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN PLACED AT LEAST 60 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. (A DEFLECTION TEST AFTER 30 DAYS IS ACCEPTABLE WITH APPROVAL FROM THE CITY ENGINEER).

39. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS IN THE APPROVED SPECIFICATIONS.

40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL TESTING ASSOCIATED WITH THE SANITARY SEWER.

41. SANITARY SEWERS SHALL BE DEEP ENOUGH TO RECEIVE FLOW FROM BASEMENTS.

42. SANITARY SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED FROM EDGE TO EDGE.

43. SANITARY SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN TO THE OUTSIDE OF THE SEWER. TWO POTENTIAL LOCATION WILL REQUIRE WATER LINE LOWERING.

44. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE EXISTING RIGHT-OF-WAY AREAS AND EASEMENT AREAS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.
45. MANHOLE SECTION JOINTS MUST MEET ASTM C-443.

46. BACKFILL SHALL BE AS PER SPECIFICATIONS.

47. WHEN A SANITARY SEWER AND WATERLINE CROSS AND IT IS NOT POSSIBLE TO MAINTAIN AN 18 INCH VERTICAL CLEARANCE BY WATERMAIN LOWERING, EITHER THE WATERMAIN OR THE SEWER SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATERMAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE O.E.P.A FOR USE IN WATERMAIN CONSTRUCTION.

48. PVC SDR 35 PIPE IS ACCEPTABLE FOR REPLACEMENT OF LATERAL CONNECTIONS CROSSING THE SEWER TRENCH, WITH APPROVED ADAPTER COUPLINGS. TESTING SHALL BE PERFORMED IN CONFORMANCE WITH THE CUYAHOGA COUNTY SANITARY ENGINEERS' UNIFORM STANDARDS OF SEWERAGE IMPROVEMENTS, SECTION 5.211.

49. THE CONTRACTOR SHALL PERFORM VACUUM TESTING OF SANITARY MANHOLES ACCORDING TO ASTM C-1244 AND AIR TESTING OF SANITARY SEWERS ACCORDING TO ASTM F-1417.

50. THE CONTRACTOR SHALL STAKE PLAN LATERAL LOCATIONS AND PROVIDE THE CITY AND RESIDENTS 10 DAYS NOTICE PRIOR TO LATERAL CONSTRUCTION. THE CITY SHALL RESERVE THE RIGHT TO RELOCATE PROPOSED LATERAL LOCATIONS PRIOR TO CONSTRUCTION.

51. LATERALS SHALL BE A MINIMUM OF 8' DEEP AT THE CLEANOUT UNLESS OTHERWISE NOTED.

52. THE FOLLOWING IS PROHIBITED: DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA. DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, OR ANY SURFACE WATERS, OR AT UNDISCLOSED LOCATIONS. THE USE OF EXPLOSIVES WITHIN CITY LIMITS, UNLESS A PERMIT IS ISSUED BY THE CITY. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATIONS OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE OR ANY OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

53. THE FOLLOWING IS PROHIBITED (CONTINUED): DISCHARGING INJURIOUS SILICA DUST CONCENTRATION INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCE OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION, STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER. OPERATION ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 AM AND 5:00 PM OR OUTSIDE THE HOURS ALLOWED BY LOCAL ORDINANCES OR REGULATIONS. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER AND CLOSING CLEAR ACCESS: - BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES. - BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR - BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

54. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISHED GRADING IN ACCORDANCE REQUIRING WITH ITEM 659 OR ITEM 660 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

55. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS) STANDARDS AND SPECIFICATIONS. THE CURRENT REFERENCE MATERIAL USED BY THE NRCS IS RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION, 2nd EDITION (ORDERING INFORMATION AT 614-265-6610).

56. FINAL GRADING WILL BE CONSISTENT WITH PRECONSTRUCTION TOPOGRAPHY FOR DRAINAGE AND AESTHETIC REASONS. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
57. THE CONTRACTOR SHALL REPLACE ALL DRIVE APRONS REMOVED FOR UTILITY CONSTRUCTION, WITH NEW APRONS. ALL SIDEWALKS REMOVED DUE TO UTILITY CONSTRUCTION SHALL BE REPLACED WITH NEW CONCRETE SIDEWALKS TO MATCH ORIGINAL WIDTH. THE CONTRACTOR SHALL FIELD VERIFY EXISTING PAVEMENT WIDTHS PRIOR TO CONSTRUCTION. ALL PAVEMENT SHALL BE REPLACED PER STANDARD PAVEMENT REPLACEMENT DETAILS. THE CONTRACTOR SHALL REPLACE DISTURBED PAVEMENTS WITH TYPES AND THICKNESS AS SPECIFIED IN THE STANDARD PAVEMENT REPLACEMENT DETAILS. THE CONTRACTOR SHALL REPLACE ANY PAVEMENT MARKINGS, SUCH AS CROSS WALKS, STOP LINES, EDGE LINES, CENTER LINES, ETC. THAT WERE REMOVED AS A RESULT OF UTILITY CONSTRUCTION AND SELECTED PAVEMENT REPLACEMENT. THE CONTRACTOR SHALL MAINTAIN THE EXISTING PAVEMENT GRADES. ANY CURB DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN FULL SECTIONS, FROM JOINT TO JOINT.

58. THE CITY ENGINEER OR INSPECTOR SHALL BE REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL PAY ALL INSPECTION COST AT THE RATE OF \$50.00 (OR CURRENT RATE) PER HOUR FOR AN 8 HOUR DAY. THE INSPECTION RATE AFTER 8 HOURS OF WORK AND ON SATURDAYS IS \$75.00 PER HOUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF CONTRACT ADMINISTRATION AT THE RATE OF SEVENTY FIVE DOLLARS (\$75.00) PER HOUR. THE CONTRACT ADMINISTRATOR TYPICALLY CHARGES FOR FOUR HOURS OR 10% OF REGULAR HOURS PER WEEK FOR THE PROJECT. MORE THAN ONE INSPECTOR WILL BE REQUIRED IF CONSTRUCTION AREAS ARE FAR ENOUGH FROM EACH OTHER OR IF IT REQUIRED BY THE ENGINEER.

59. MATERIALS BEING SUPPLIED TO THE PROJECT SUCH AS, BUT NOT LIMITED TO, ASPHALT, CONCRETE, SUBBASE MATERIAL, ETC. MAY BE REQUIRED TO BE TESTED AND INSPECTED BY AN INDEPENDENT TESTING LABORATORY AT THE DIRECTION OF THE ENGINEER, AND THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID PER OTHER ITEMS. THE ENGINEER OR HIS DULY AUTHORIZED REPRESENTATIVE WILL INSPECT THE MATERIALS FURNISHED AND THE WORK DONE UNDER HIS CONTRACT. ANY AND ALL WORK AND MATERIAL AND THE METHOD OF APPLICATION OF ANY PART THEREOF, UNDER OR IN FULFILLMENT OF THIS CONTRACT THAT DOES NOT APPLY IN KIND, QUALITY, QUANTITY, TIME OR PLACE WITH THESE SPECIFICATIONS AND CONTRACT DRAWINGS WILL BE SUBJECT TO REJECTION AND/OR REFUSAL. THE ENGINEER OR HIS REPRESENTATIVE SHALL BE ALLOWED ACCESS TO ALL THE PARTS OF THE WORK AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS REQUIRED TO MAKE A COMPLETE AND DETAILED INSPECTION. ANY AND ALL MATERIALS OR WORK DECLARED CONDEMNED BY THE ENGINEER SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE AT THE CONTRACTOR'S COST.

60. ANY WORK DONE OR MATERIAL USED WITHOUT INSPECTION BY THE ENGINEER OR HIS REPRESENTATIVE MAY BE ORDERED REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. FAILURE TO REJECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECTS ARE DISCOVERED, OR OBLIGATE THE CITY TO FINAL ACCEPTANCE.

61. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF OPERATIONS REQUIRING FIELD INSPECTION. ALL COST ASSOCIATED WITH INSPECTION OR RE-INSPECTION SHALL BE AT THE CONTRACTOR'S EXPENSE. ALSO, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEERS OFFICE SHOULD WORK BE SUSPENDED OR DISCONTINUED FOR ANY REASON WHATSOEVER AND INSPECTION IS NOT NECESSARY. FAILURE TO DO SO WILL RESULT IN INSPECTION BEING CHARGED FOR THAT DAY AND/OR DAYS.

62. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OR ANY OF HIS AGENTS WITH EVERY REASONABLE FACILITY FOR THE PURPOSE OF INSPECTION, INCLUDING LADDERS, STEPS, SCAFFOLDS OR PLATFORMS, EVEN TO THE EXTENT TO STOPPING A PORTION OF THE WORK TEMPORARILY OR OF UNCOVERING OR TAKING DOWN A PORTION OF THE FINISHED WORK. NO CLAIMS SHALL BE MADE BY THE CONTRACTOR FOR LOSS OF TIME, FOR INCONVENIENCE, OR FOR ANY EXPENSE FOR TEMPORARILY DISCONTINUING THE WORK UNDER THIS CONTRACT FOR THE PURPOSES OF INSPECTION.

63. THE CONTRACTOR SHALL, WHEN DIRECTED, REMOVE ALL WATER WHICH MAY ACCUMULATE IN OR ABOUT THE WORK DURING CONSTRUCTION, OR PRIOR TO THE FINAL ACCEPTANCE OF THE SAME, IN ORDER THAT A PROPER INSPECTION MAY BE DONE.

64. IT IS NOT THE FUNCTION OF THE ENGINEER TO SUPERVISE OR DIRECT THE MANNER IN WHICH THE WORK TO BE DONE UNDER THIS CONTRACT IS CARRIED ON OR CONDUCTED. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, AND HE WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

65. THE CONTRACTOR AGREES THAT ANY METHODS OR PROCEDURES, WHICH IN THE OPINION OF THE ENGINEER DOES NOT ACHIEVE THE REQUIRED RESULTS OR QUALITY OF WORK SPECIFIED, SHALL BE DISCONTINUED IMMEDIATELY UPON THE ORDER FROM THE ENGINEER.

66. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DISTURBED AREAS. UNLESS SPECIFICALLY DESIGNED FOR REMOVAL, ALL PAVEMENTS, ROAD SERVICES, CURBING, DRIVEWAYS, DRIVEWAY CULVERT PIPE, SEWERS, DRAINS, SIDEWALKS, RETAINING WALLS, HEADWALLS, FENCING, MAILBOXES, SHRUBS, SIGNS AND SO FORTH, REMOVED OR DAMAGED DURING THE COURSE OF WORK SHALL BE REPLACED BY THE CONTRACTOR IN THE SAME MANNER, AND OF EQUAL QUALITY AND DIMENSIONS AS EXISTED BEFORE THE COMMENCEMENT OF WORK, TO THE SATISFACTION OF THE ENGINEER OF THE CITY OF NORTH ROYALTON AND INCLUDED IN THE PRICE BID FOR OTHER ITEMS.

67. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE RESTORATION OF THE PROJECT AREA. A QUALIFIED LANDSCAPER APPROVED BY THE CITY ENGINEER MUST BE USED IN THE RESTORATION OF ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE PREPARED AND SEEDED IN ACCORDANCE WITH CITY SPECIFICATIONS (6" TOPSOIL & HYDROSEED) OR ITEM 660 SODDING AND THE "OHIO EROSION AND SEDIMENTATION CONTROL MANUAL". NO HYDROSEEDING SHALL TAKE PLACE UNTIL THE SUBGRADE HAS BEEN INSPECTED AND APPROVED BY THE CITY ENGINEER. SEEDING AND EROSION CONTROL MATTING SHALL BE FURNISHED AND PLACED ON ALL SLOPES 4:1 OR STEEPER REQUIRING GRASS RESTORATION AND SHALL CONFORM TO ODOT ITEM 670. ALL EXISTING STREET SIGNS SHALL BE REMOVED AND RELOCATED. SIGNS SHALL BE RELOCATED BY CONTRACTOR AT SAME STATION AND OFFSET FROM BACK OF CURB EQUAL TO EXISTING PAVEMENT OFFSET. PRICE BID PER OTHER ITEMS.

EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

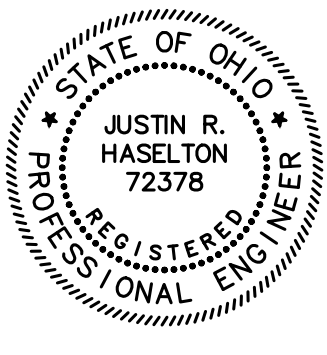
CUYAHOGA COUNTY

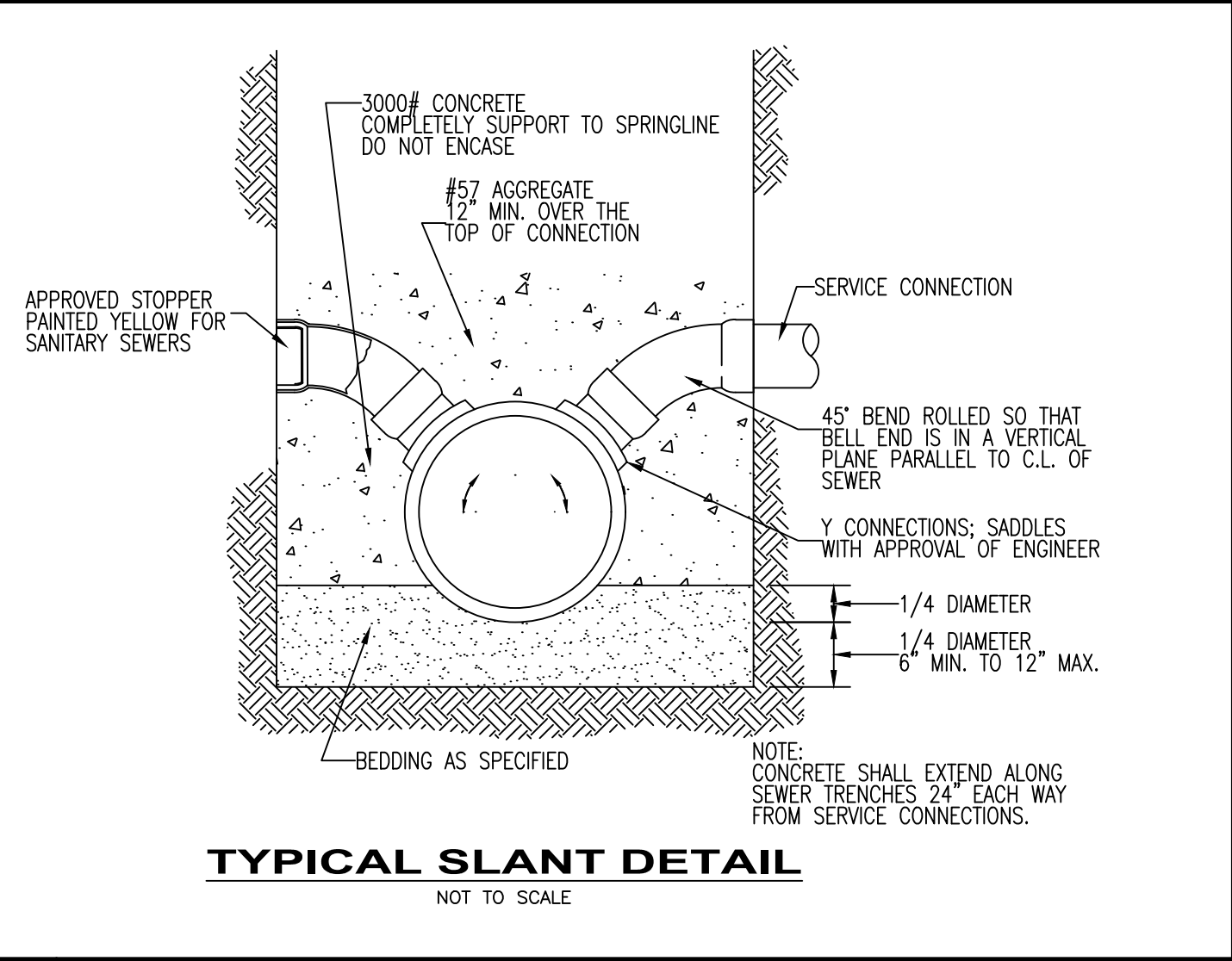
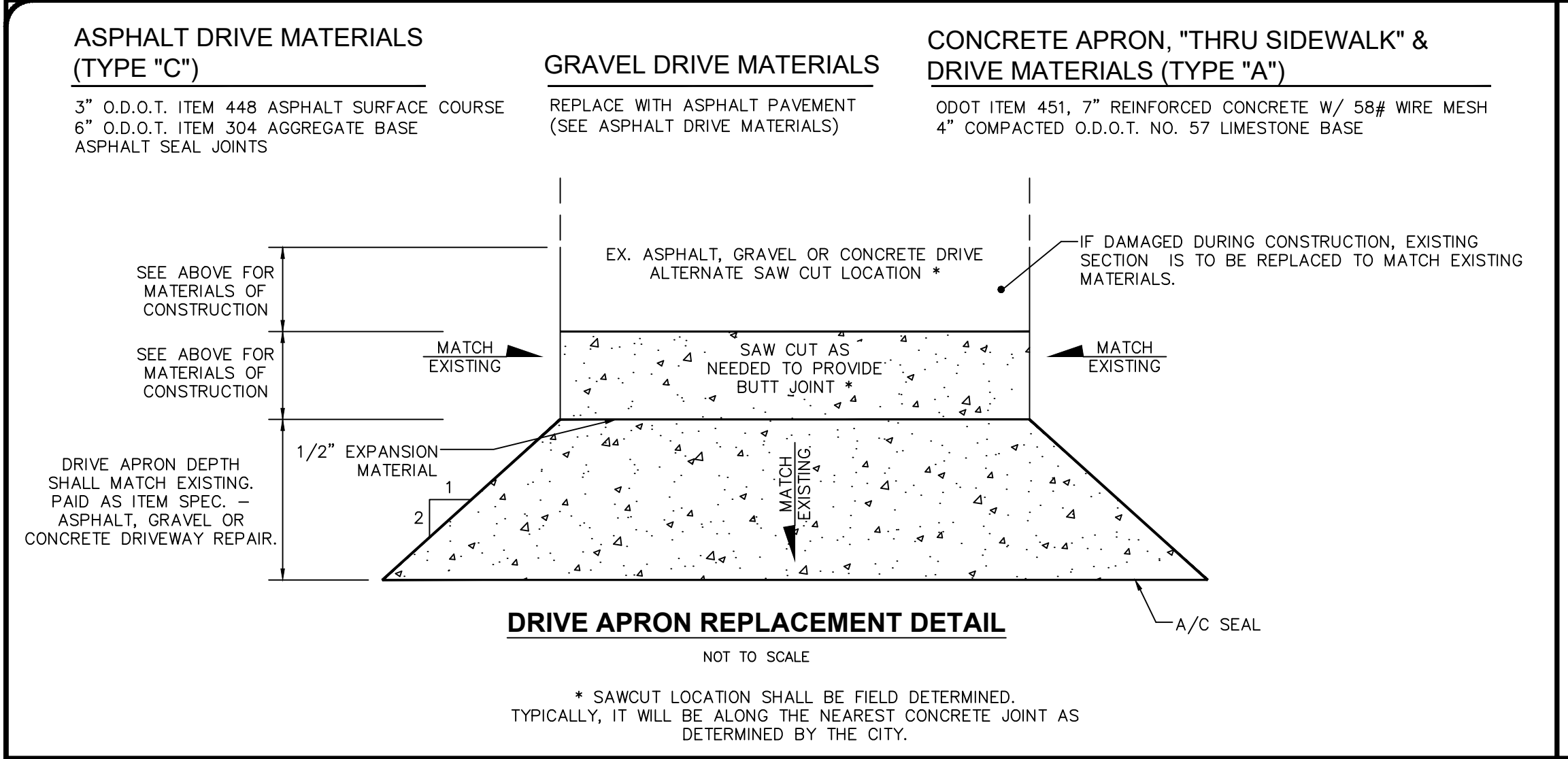
NORTH ROYALTON, OHIO

GENERAL NOTES

ISSUED FOR:	BID
ISSUE DATE:	JUNE, 2025
SCALE:	AS SHOWN
DESIGNED BY:	WTV/JRH
DRAWN BY:	WTV
CHECKED BY:	JRH

PROJECT NO.	
220259	
DISCIPLINE	
CIVIL	
SHEET NAME	
GN-01	
SHEET	OF
2	12



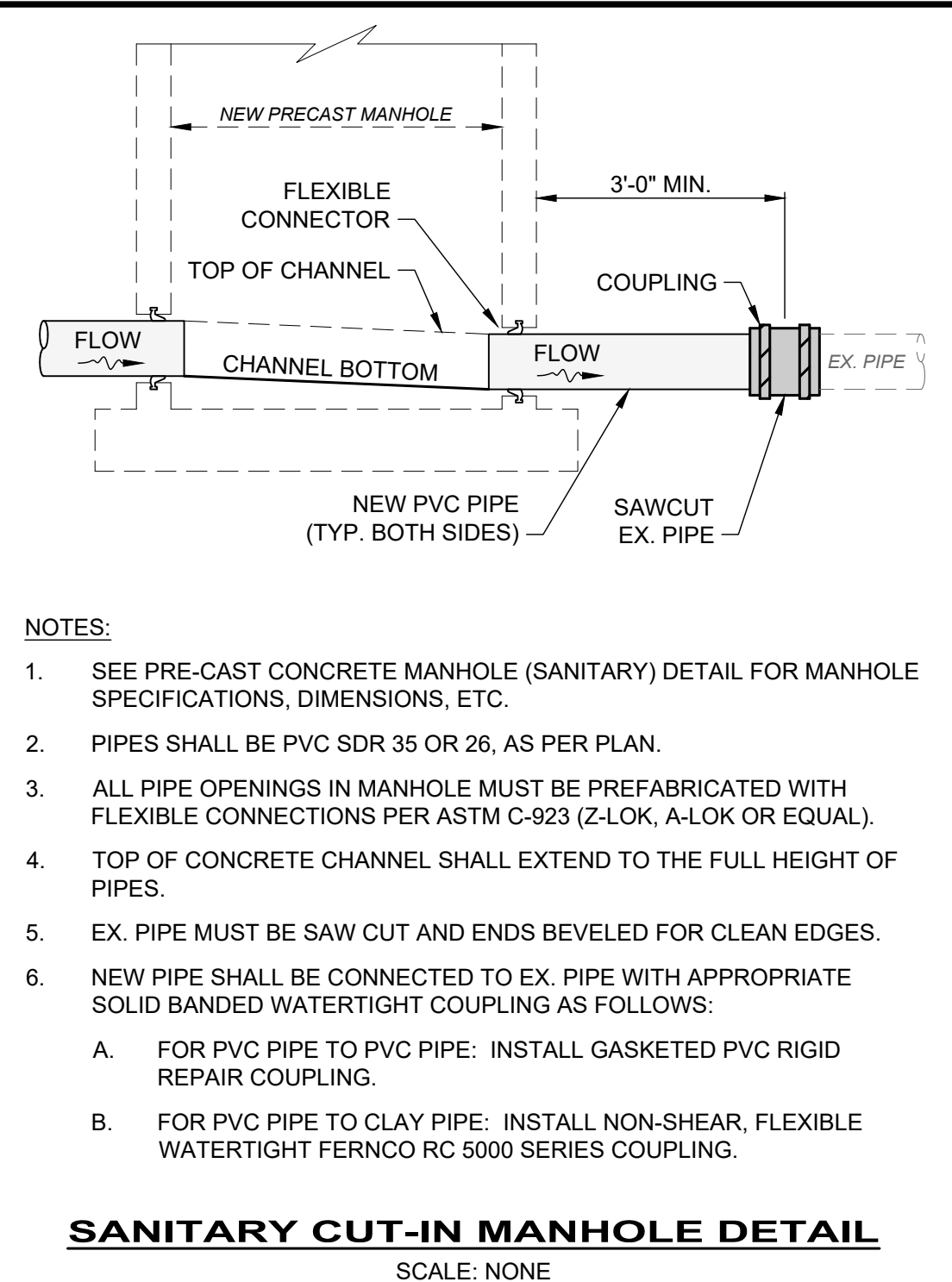
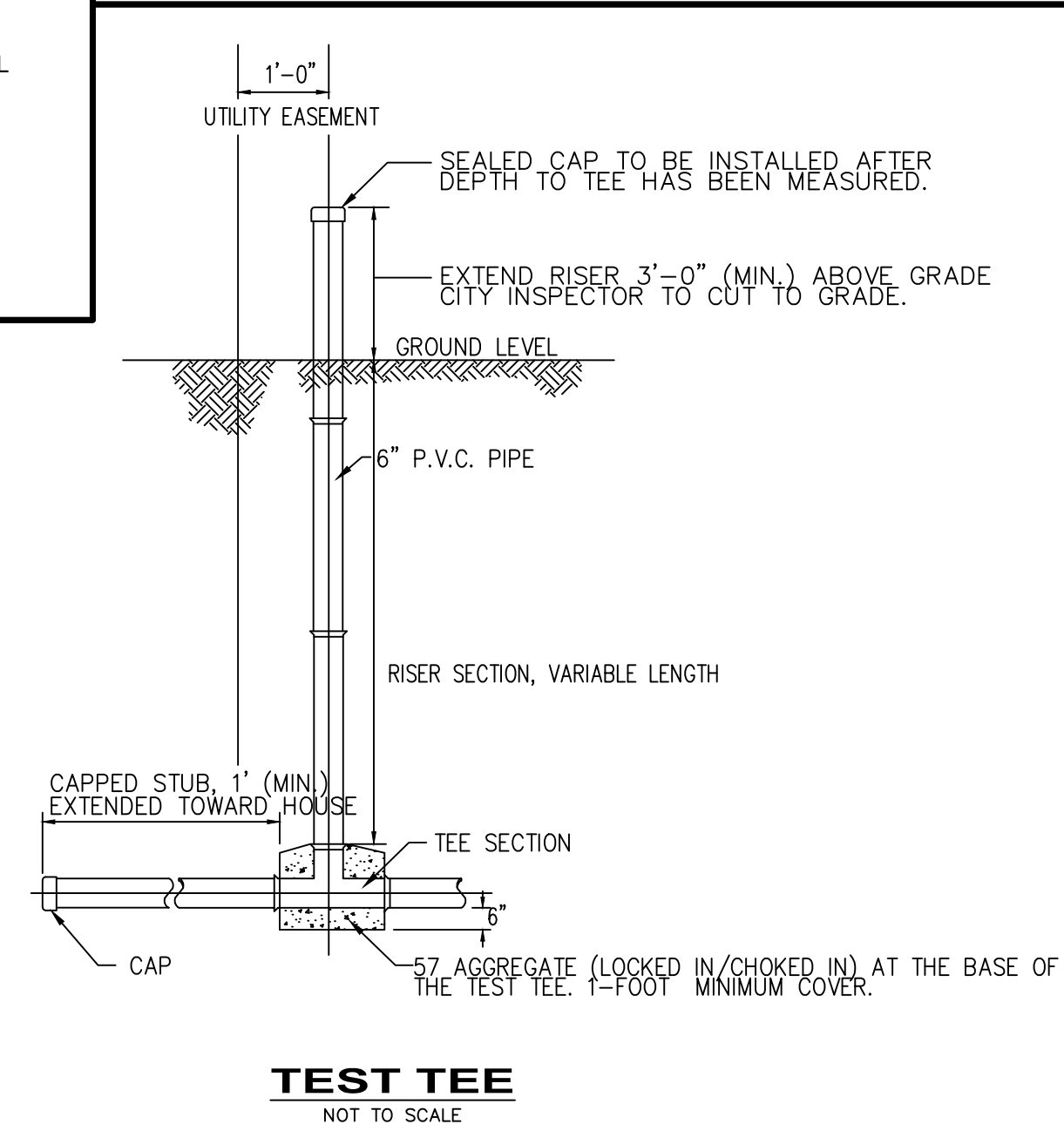
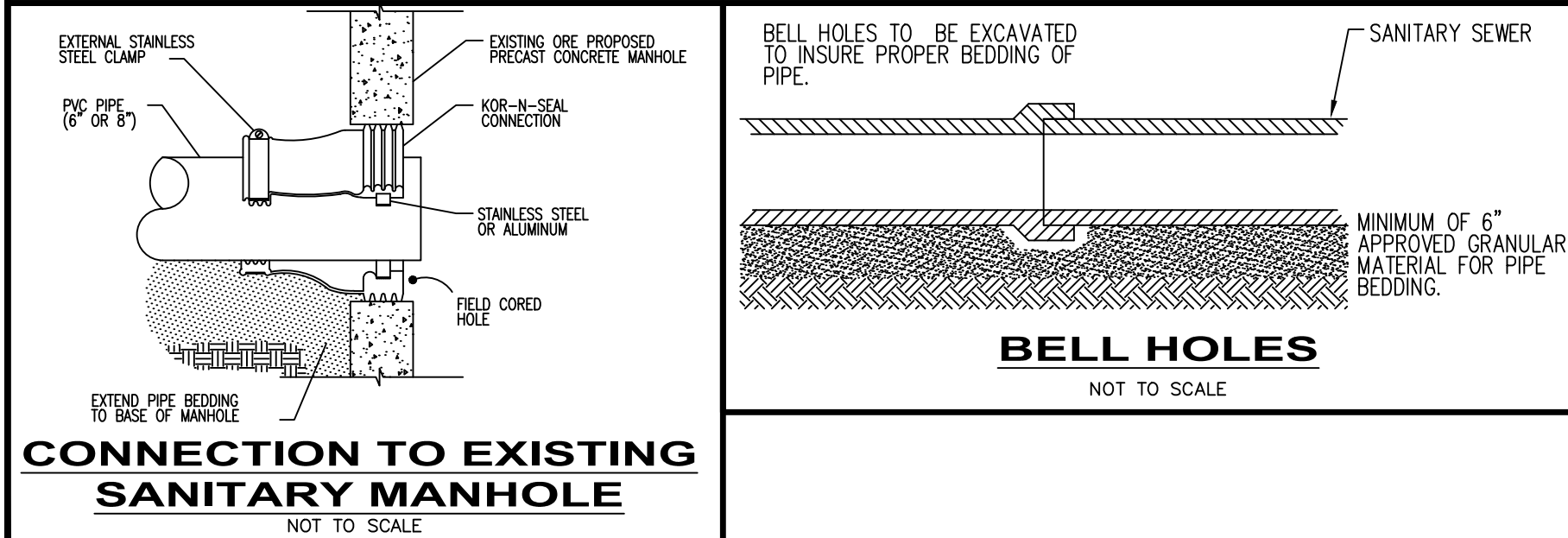
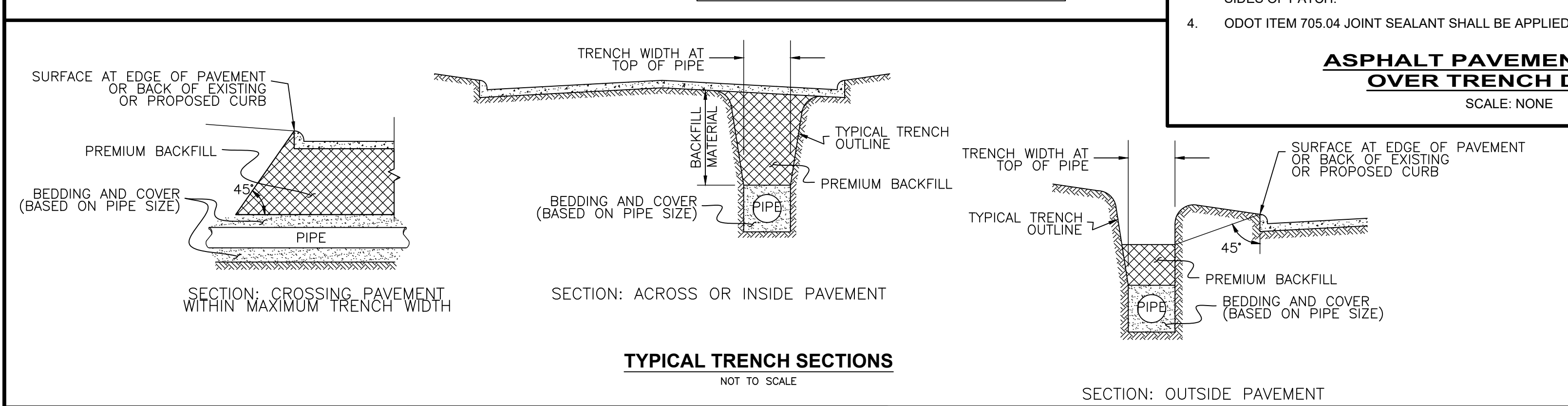
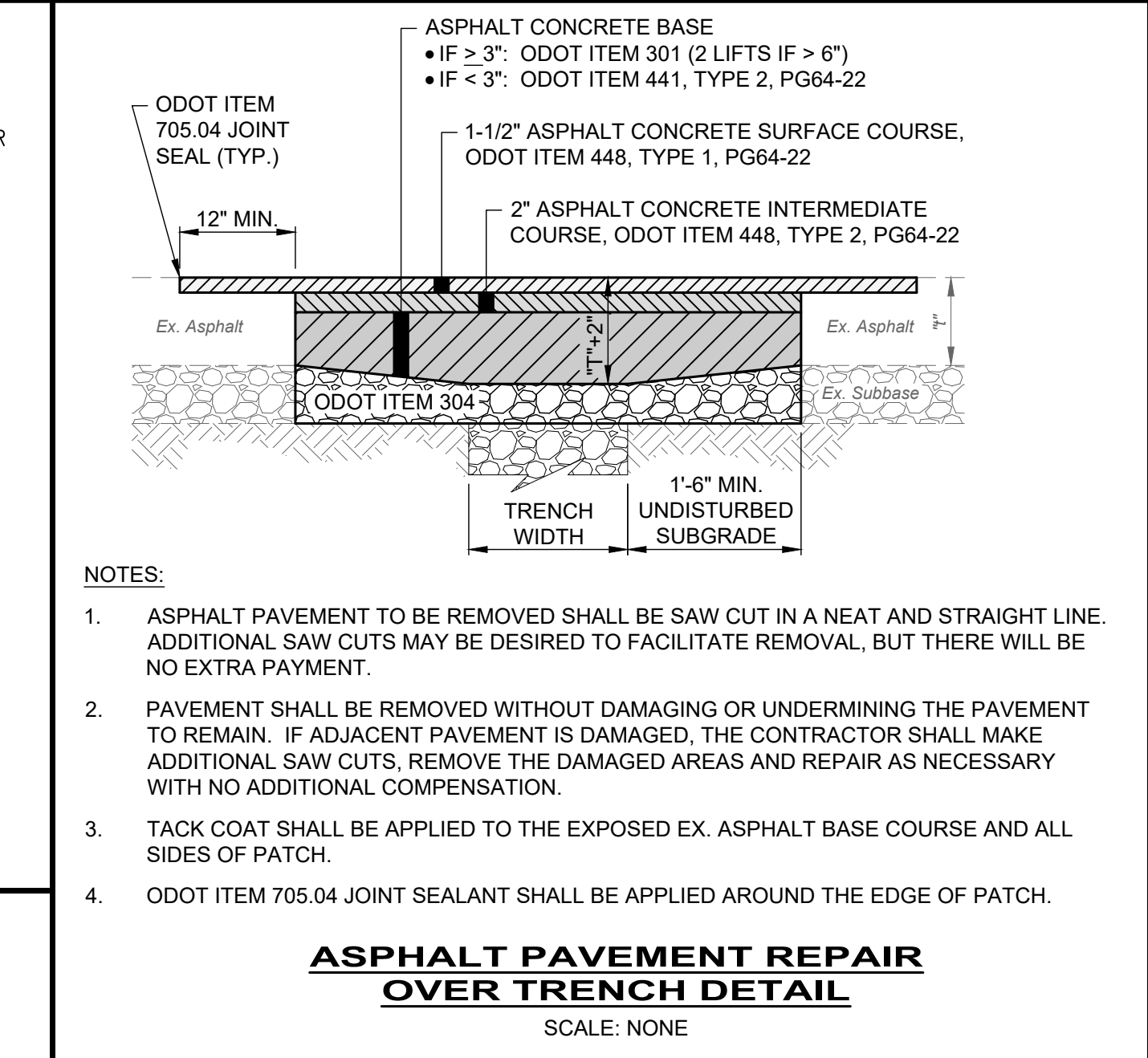
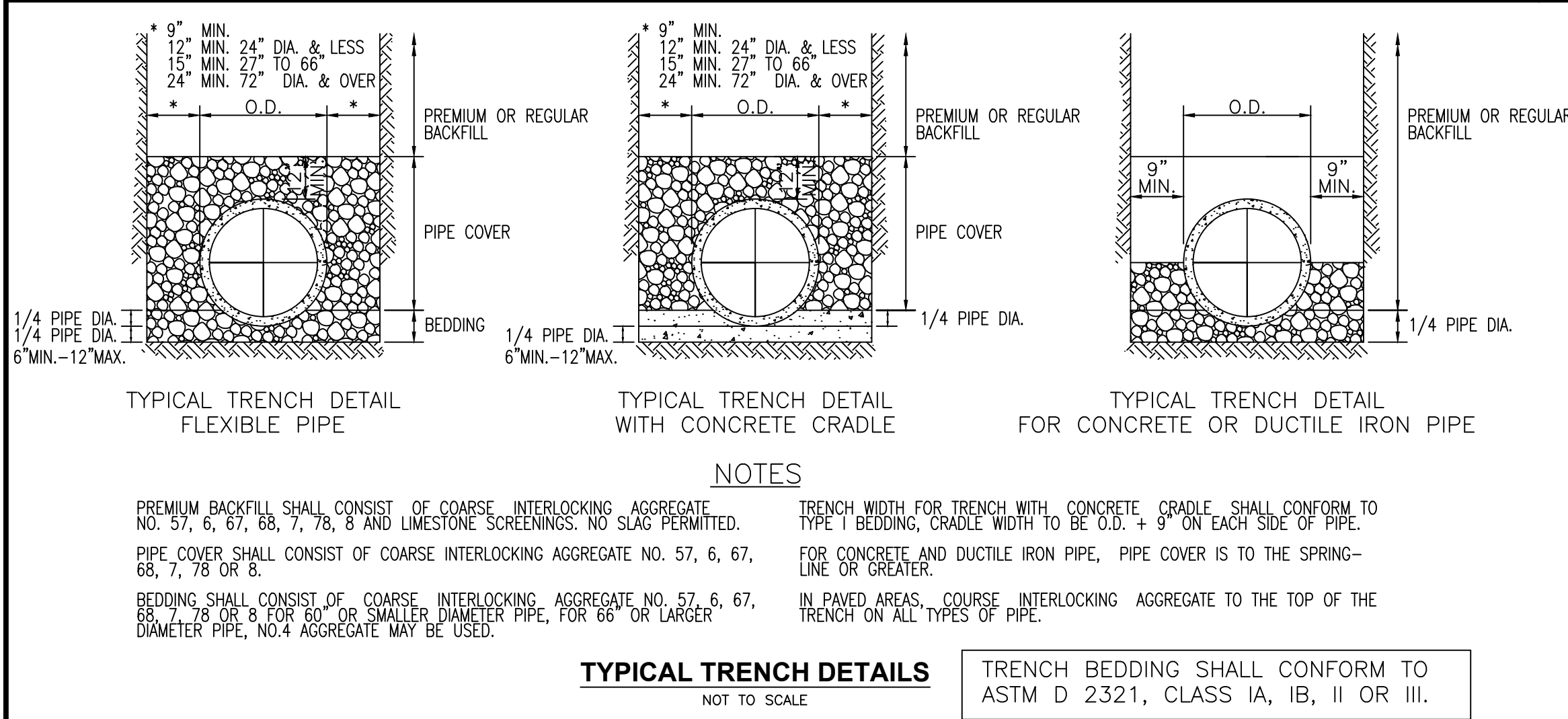
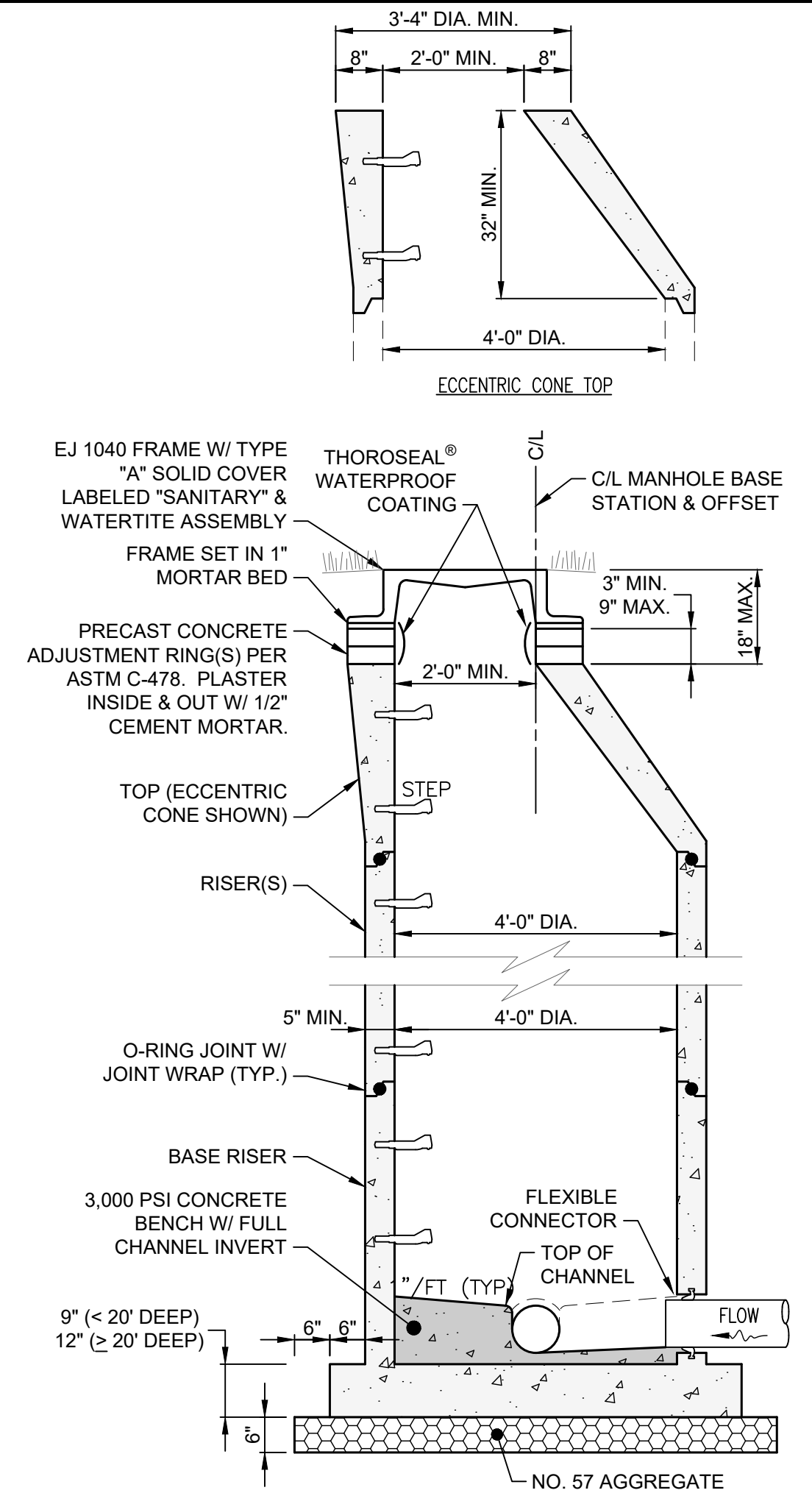


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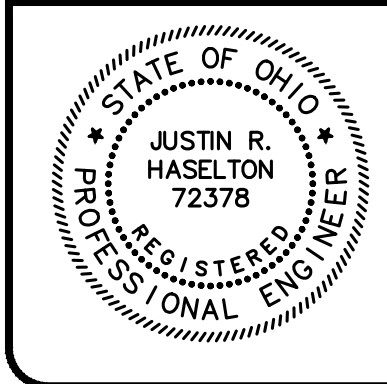
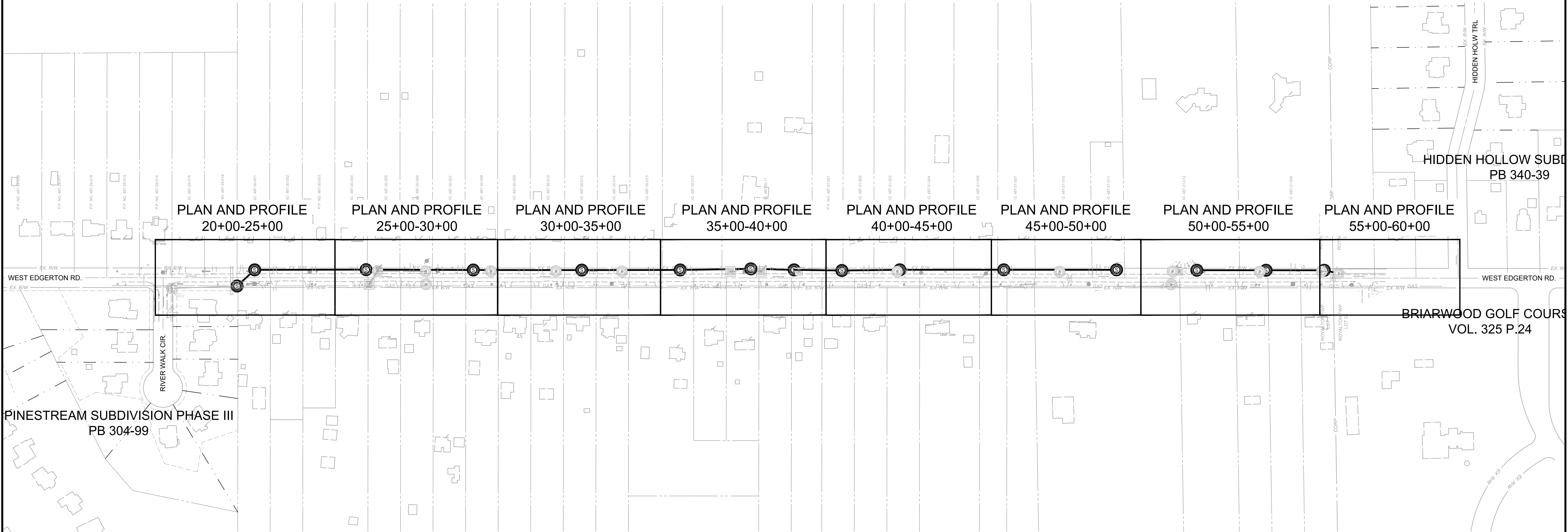
- TOP SECTION SHALL BE AN ECCENTRIC CONE. ROTATE CONE TO OFFSET MANHOLE CASTING TO AVOID SIDEWALKS, UNDERDRAINS AND CURBS. USE FLAT SLAB TOP IF MANHOLE IS LESS THAN 6'-3" DEEP.
- O-RING JOINT BETWEEN PRECAST MANHOLE SECTIONS SHALL BE RESILIENT WATERTIGHT GASKET PER ASTM C-443.
- PRECAST MANHOLE AND REINFORCEMENT SHALL CONFORM TO ASTM C-478.
- STRUCTURE SHALL MEET H-20 LOADING.
- BASE MUST BE PRECAST MONOLITHIC WITH BASE RISER.
- ALL PIPE OPENINGS MUST BE PRECAST WITH FLEXIBLE CONNECTIONS (Z-LOK OR A-LOK) PER ASTM C-923.
- WRAP ALL INSIDE AND OUTSIDE MANHOLE JOINTS WITH 24" WIDE EXTERIOR JOINT WRAP PER ASTM C-877 TYPE III, CONSEAL CS-212.
- CONCRETE CHANNEL TOP SHALL EXTEND TO FULL HEIGHT OF PIPE(S).
- CONCRETE BENCH AND CHANNEL(S) SHALL BE PRECAST AS ONE PIECE IN THE BASE SECTION. ALL PIPES SHALL HAVE POURED INVERTS.
- ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTIONS WITHOUT LIFT HOLES OF ANY KIND.
- USE REINFORCED PLASTIC MANHOLE STEPS.
- FIRST STEP SHALL NOT BE MORE THAN 2'-0" BELOW TOP OF FRAME. MAKE PROJECTION 3-1/2" IF IN 24" DIA. SECTION.
- MANHOLE MUST PASS A VACUUM TEST PER ASTM C-1244.
- ANY PRECAST CONCRETE SECTION DAMAGED IN TRANSIT OR ON-SITE AND WHERE THE WATER TIGHTNESS OF THE SECTION HAS BEEN ADVERSELY AFFECTED SHALL BE REPLACED AND NOT UTILIZED IN THE CONSTRUCTION OF THE MANHOLE.

PRECAST CONCRETE MANHOLE (SANITARY) DETAIL

SCALE: NONE NOT TO SCALE



 	NO		REVISION	DATE	<div>EDGERTON ROAD SANITARY IMPROVEMENT PROJECT</div> <div>CUYAHOGA COUNTY</div> <div>NORTH ROYALTON, OHIO</div>	ISSUED FOR: BID		<div>STANDARD DETAILS</div>	PROJECT NO. 220259	
	0		ISSUED FOR PTI SUBMITTAL	12/14/23		ISSUE DATE: JUNE, 2025			DISCIPLINE CIVIL	
	0		ISSUED FOR BID	05/08/25		SCALE: AS SHOWN			SHEET NAME	
						DESIGNED BY: WTV/JRH				
						DRAWN BY: WTV				
						CHECKED BY: JRH				
						SHEET OF		3 OF 12		



NO	REVISION	DATE
0	ISSUED FOR PTI SUBMITTAL	12/14/23
0	ISSUED FOR BID	05/08/25

EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

NORTH ROYALTON, OHIO

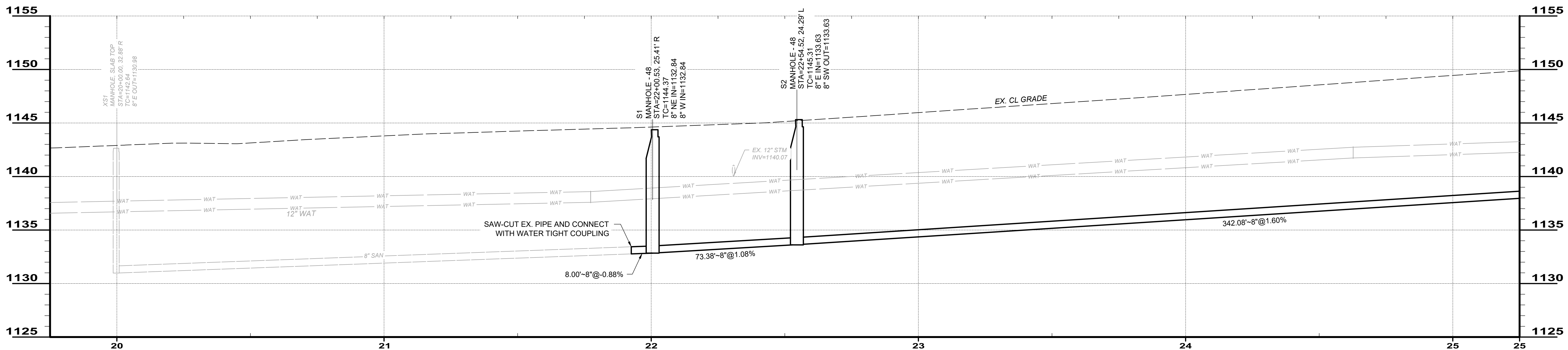
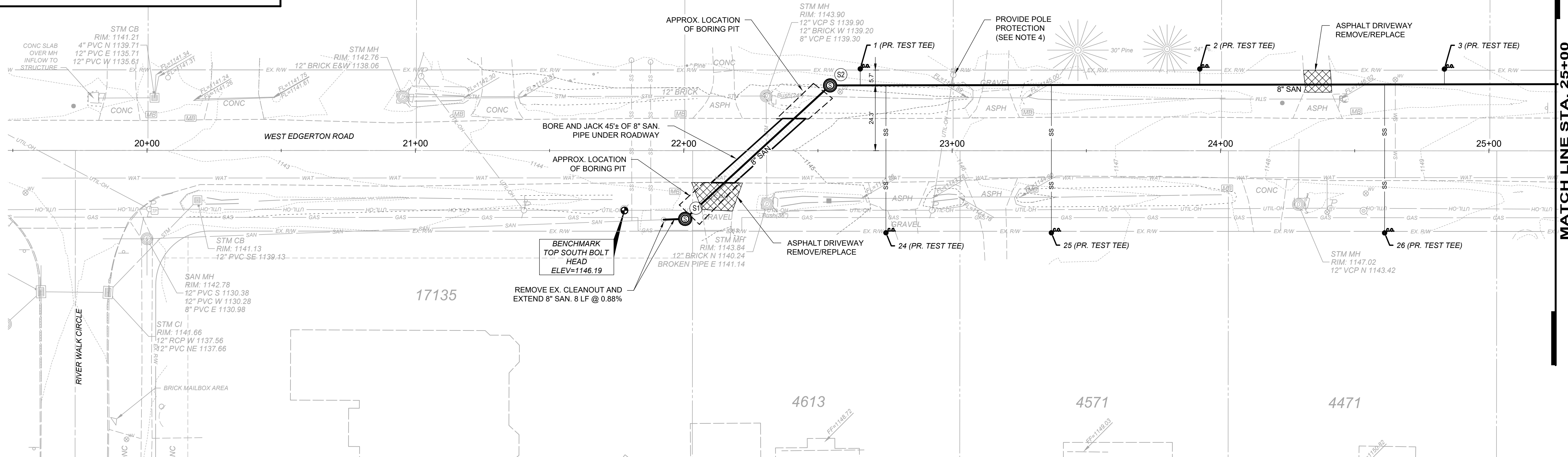
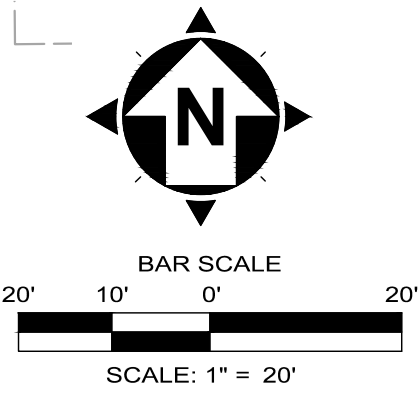
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SCHEMATIC PLAN

PROJECT NO.	
220259	
DISCIPLINE	
CIVIL	
SHEET NAME	
SHEET	OF
4	12

SHEET NOTES:

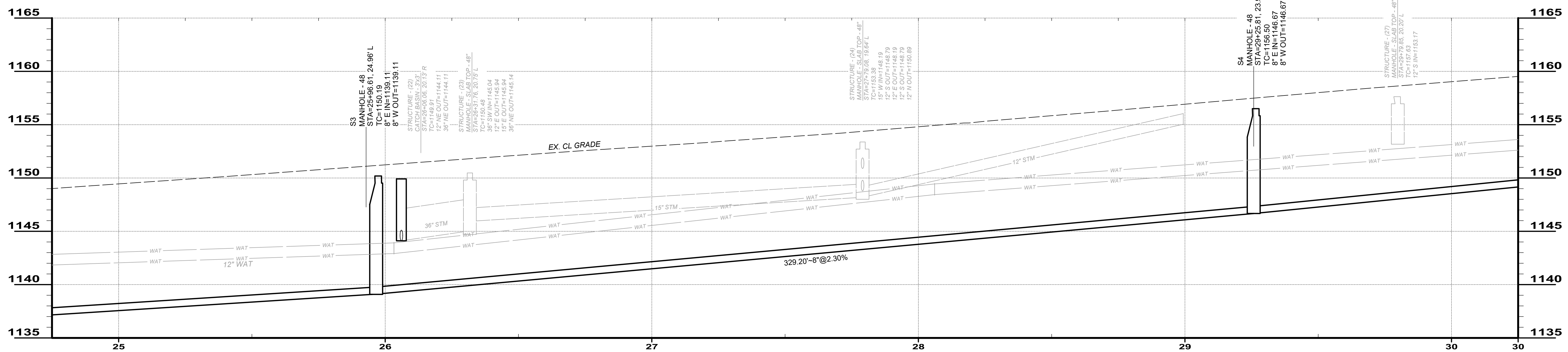
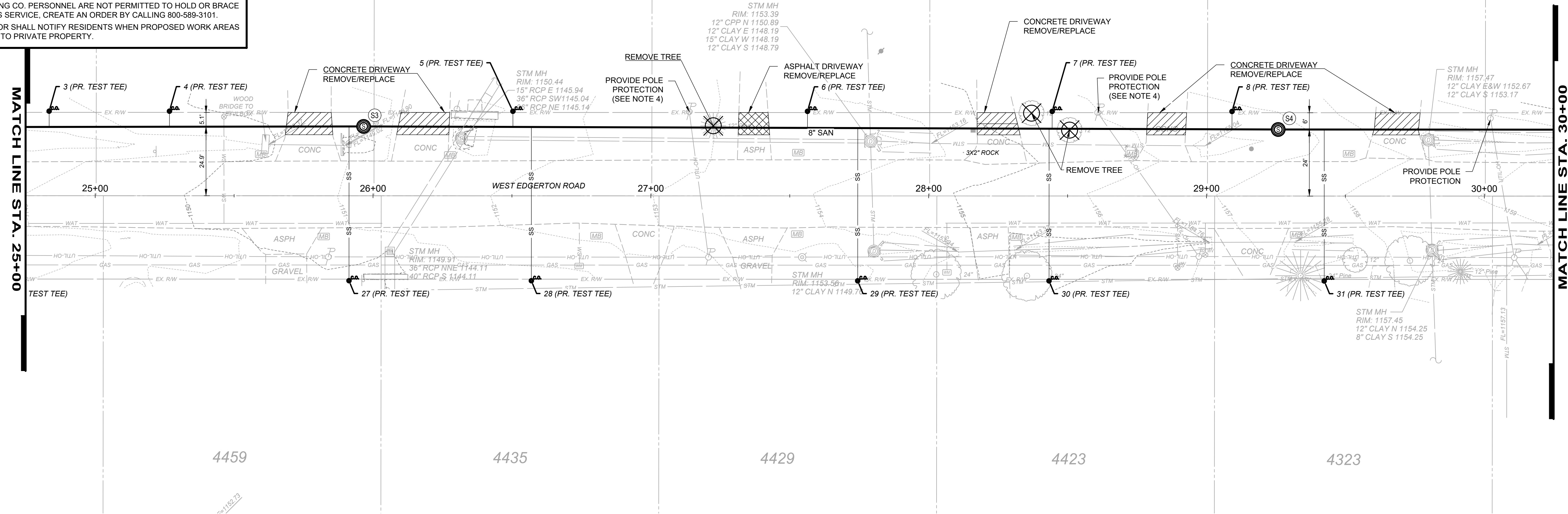
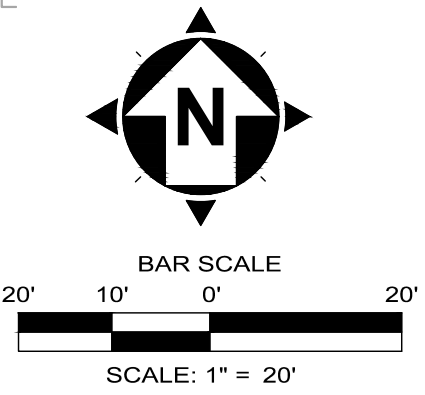
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- MAINTAIN MINIMUM 10 FT. HORIZONTAL AND 18 IN. VERTICAL CLEARANCE (OUT TO OUT) BETWEEN ALL WATER MAIN OR SERVICE LINE AND ALL SANITARY OR STORM SEWER MAIN LINE OR SERVICE LATERAL, STRUCTURE OR SANITARY FORCE MAIN.
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		NO	REVISION	DATE	EDGERTON ROAD SANITARY IMPROVEMENT PROJECT	ISSUED FOR:	BID	PLAN AND PROFILE 20+00-25+00	PROJECT NO. 220259	
		0	ISSUED FOR PTI SUBMITTAL	12/14/23		ISSUE DATE:	JUNE, 2025		DISCIPLINE CIVIL	
		0	ISSUED FOR BID	05/08/25		SCALE:	AS SHOWN		SHEET NAME	
						DESIGNED BY:	WTV/JRH			
						DRAWN BY:	WTV		SHEET	OF
						CHECKED BY:	JRH		5	12

CUYAHOGA COUNTY NORTH ROYALTON, OHIO

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EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY
NORTH ROYALTON, OHIO

ISSUED FOR: BID

ISSUE DATE: JUNE, 2025

SCALE: AS SHOWN

DESIGNED BY: WTV/JRH

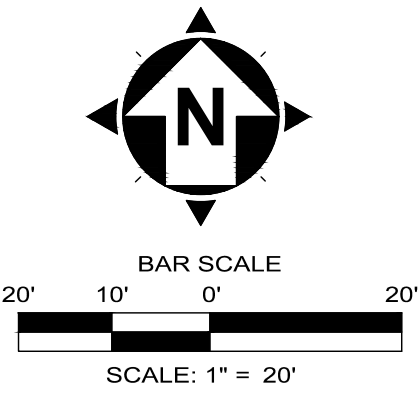
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PLAN AND PROFILE
25+00-30+00

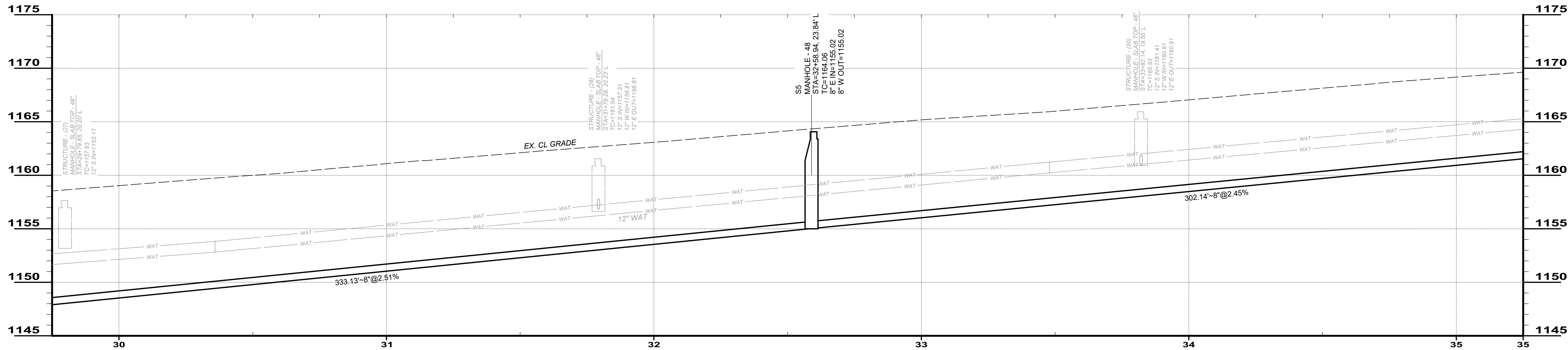
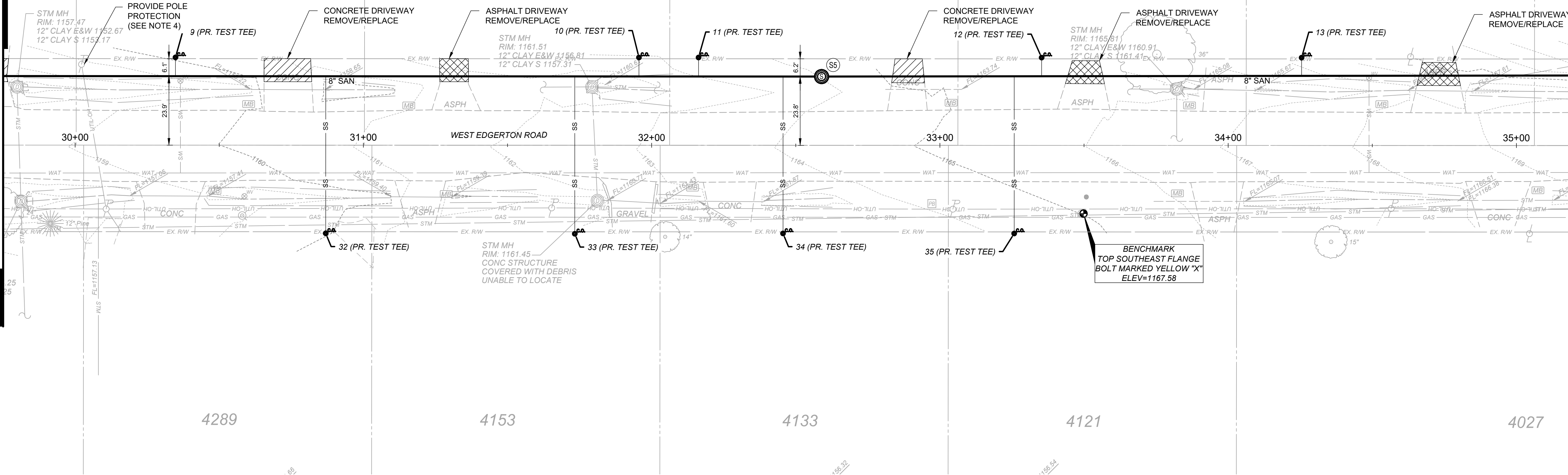
PROJECT NO.	
220259	
DISCIPLINE	
CIVIL	
SHEET NAME	
SHEET	OF
6	12

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MATCH LINE STA. 30+00

MATCH LINE STA. 35+00



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0	ISSUED FOR PTI SUBMITTAL	12/14/23
0	ISSUED FOR BID	05/08/25

EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

NORTH ROYALTON, OHIO

ISSUED FOR: BID

ISSUE DATE: JUNE, 2025

SCALE: AS SHOWN

DESIGNED BY: WTV/JRH

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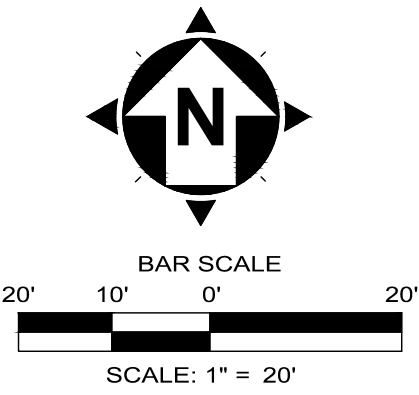
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PLAN AND PROFILE
30+00-35+00

PROJECT NO.	
220259	
DISCIPLINE	
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SHEET NAME	
SHEET	OF
7	12

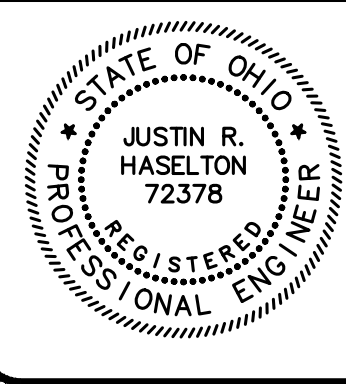
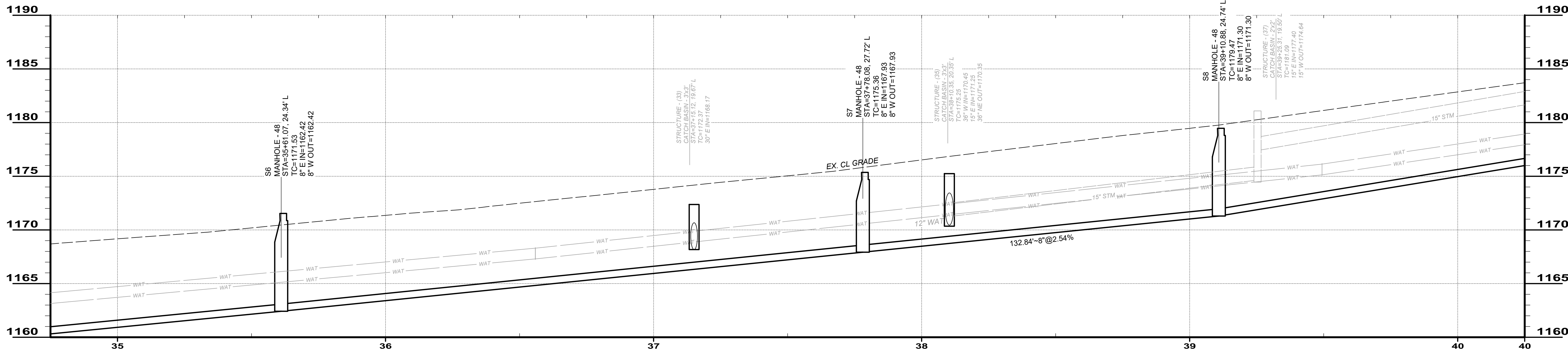
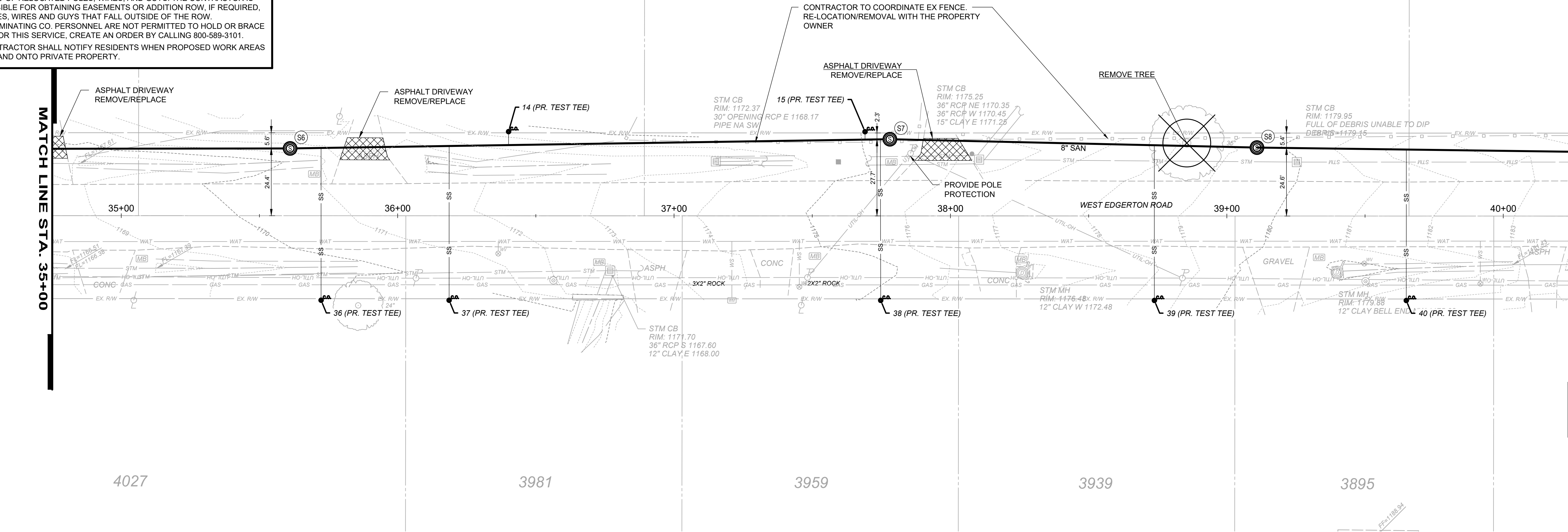
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MATCH LINE STA. 35+00

MATCH LINE STA. 40+00



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NO	REVISION	DATE
0	ISSUED FOR PTI SUBMITTAL	12/14/23
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EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

NORTH ROYALTON, OHIO

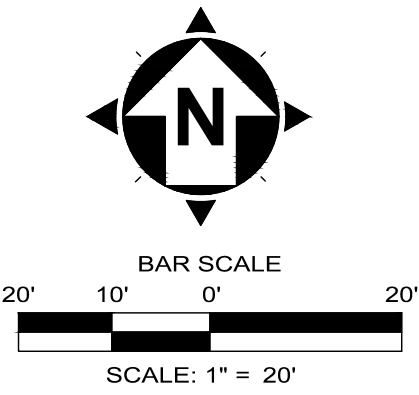
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PLAN AND PROFILE
35+00-40+00

PROJECT NO.	220259
DISCIPLINE	CIVIL
SHEET NAME	
SHEET	OF
8	12

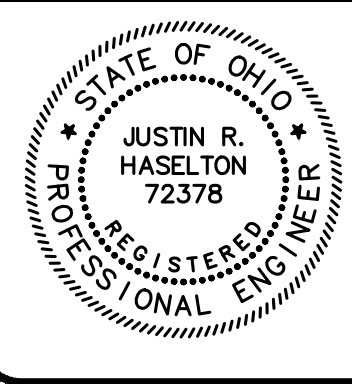
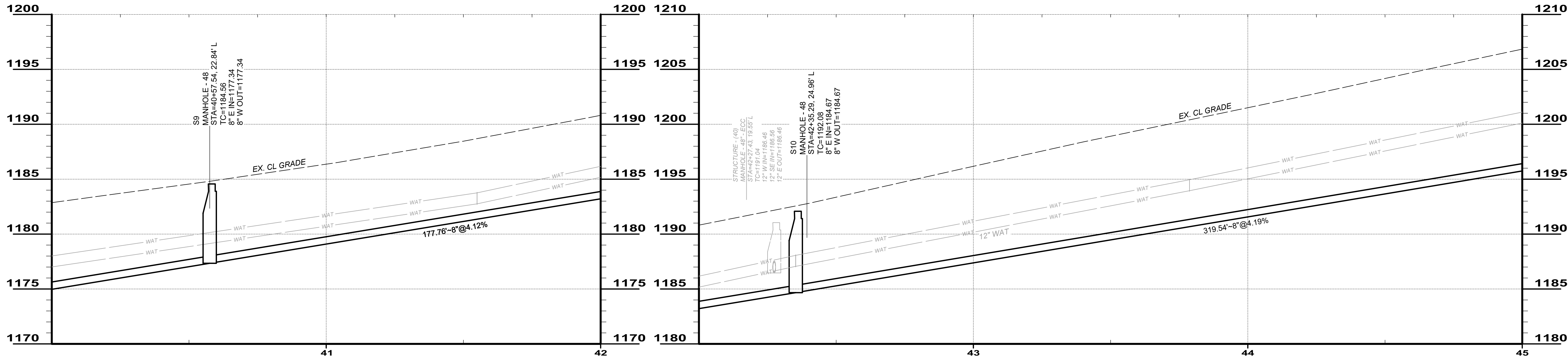
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MATCH LINE STA. 40+00

MATCH LINE STA. 45+00



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EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

NORTH ROYALTON, OHIO

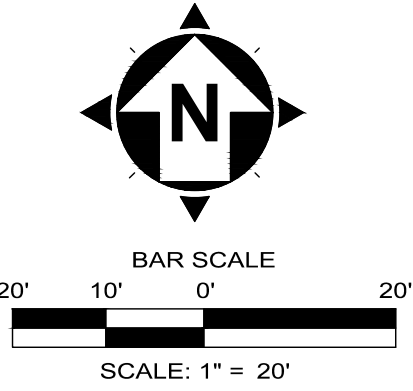
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PLAN AND PROFILE
40+00-45+00

PROJECT NO.	220259
DISCIPLINE	CIVIL
SHEET NAME	
SHEET	OF
9	12

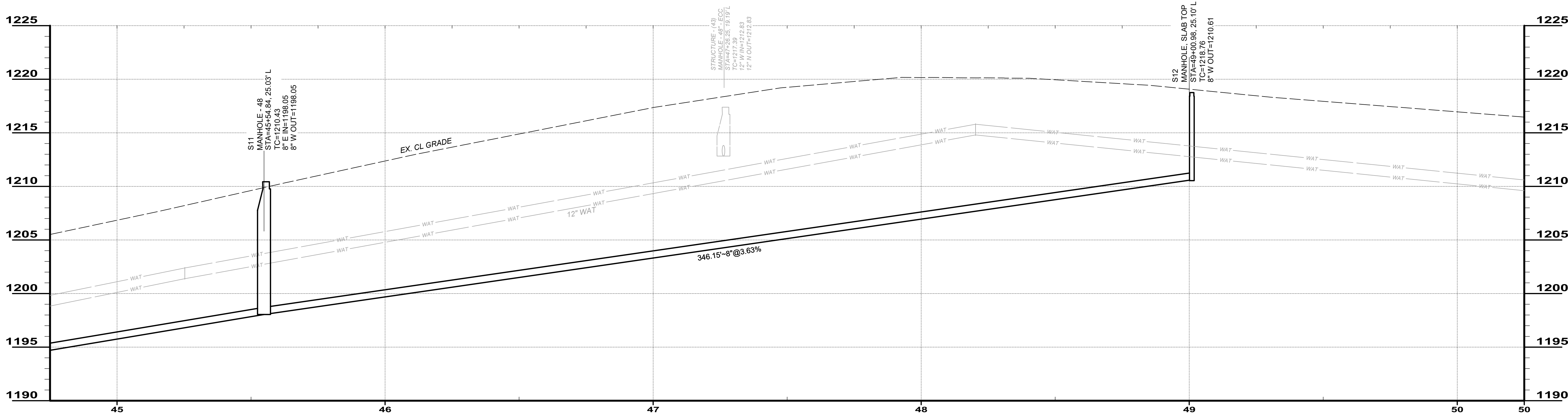
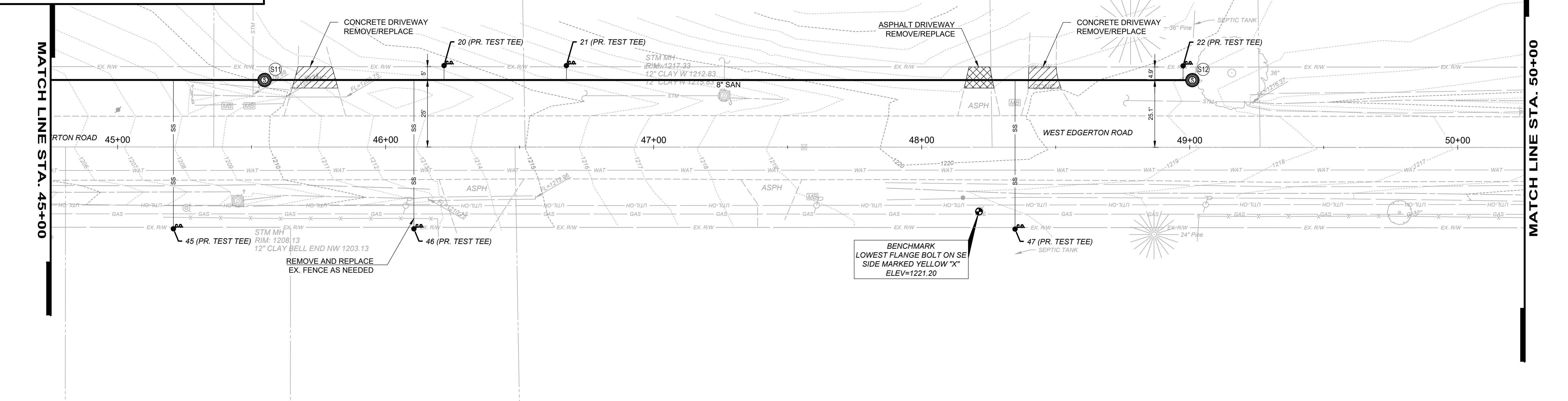
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MATCH LINE STA. 45+00

MATCH LINE STA. 50+00



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EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

NORTH ROYALTON, OHIO

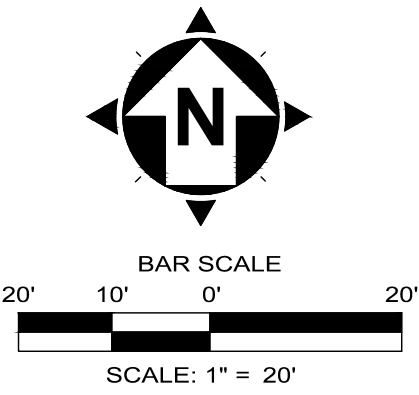
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PLAN AND PROFILE
55+00-60+00

PROJECT NO.	220259
DISCIPLINE	CIVIL
SHEET NAME	
SHEET	OF
10	12

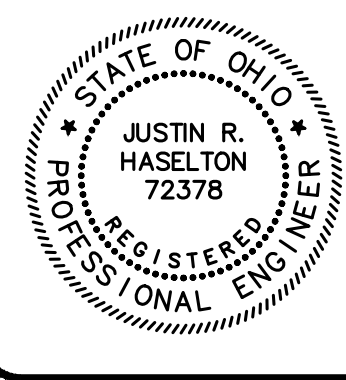
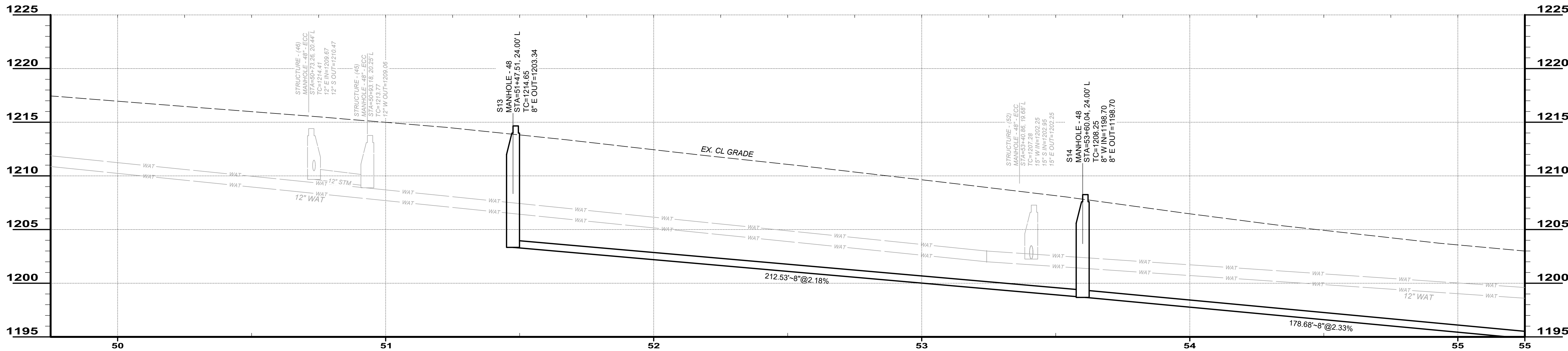
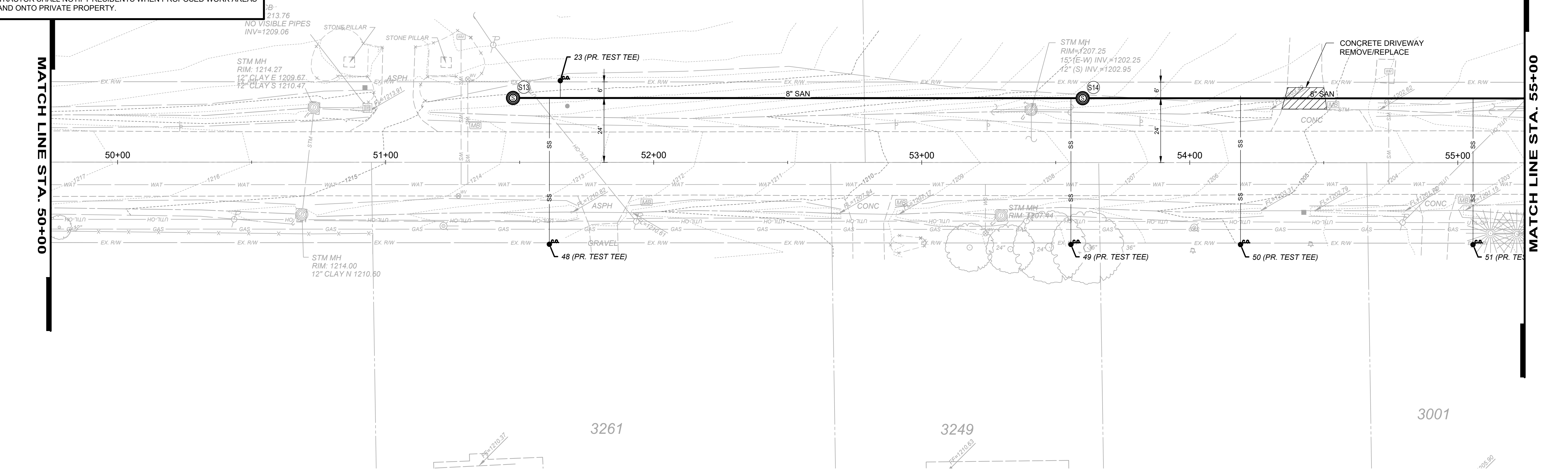
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- MAINTAIN MINIMUM 10 FT. HORIZONTAL AND 18 IN. VERTICAL CLEARANCE (OUT TO OUT) BETWEEN ALL WATER MAIN OR SERVICE LINE AND ALL SANITARY OR STORM SEWER MAIN LINE OR SERVICE LATERAL, STRUCTURE OR SANITARY FORCE MAIN.
- MAINTAIN MINIMUM 5 FT. HORIZONTAL AND 12 IN. VERTICAL CLEARANCE (OUT TO OUT) BETWEEN ALL SANITARY LINE, FORCE MAIN, SERVICE LATERAL OR STRUCTURE AND ALL STORM SEWER MAIN LINE, SERVICE LATERAL OR STRUCTURE.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TREES AND SHRUBBERY WITHIN 12' OF RELOCATED POLES, WIRES, AND GUYS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING EASEMENTS OR ADDITION ROW, IF REQUIRED, FOR POLES, WIRES AND GUYS THAT FALL OUTSIDE OF THE ROW. NON-ILLUMINATING CO. PERSONNEL ARE NOT PERMITTED TO HOLD OR BRACE POLES. FOR THIS SERVICE, CREATE AN ORDER BY CALLING 800-589-3101.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS WHEN PROPOSED WORK AREAS MAY EXPAND ONTO PRIVATE PROPERTY.



MATCH LINE STA. 50+00

MATCH LINE STA. 55+00



NO	REVISION	DATE
0	ISSUED FOR PTI SUBMITTAL	12/14/23
0	ISSUED FOR BID	05/08/25

EDGERTON ROAD
SANITARY IMPROVEMENT PROJECT

CUYAHOGA COUNTY

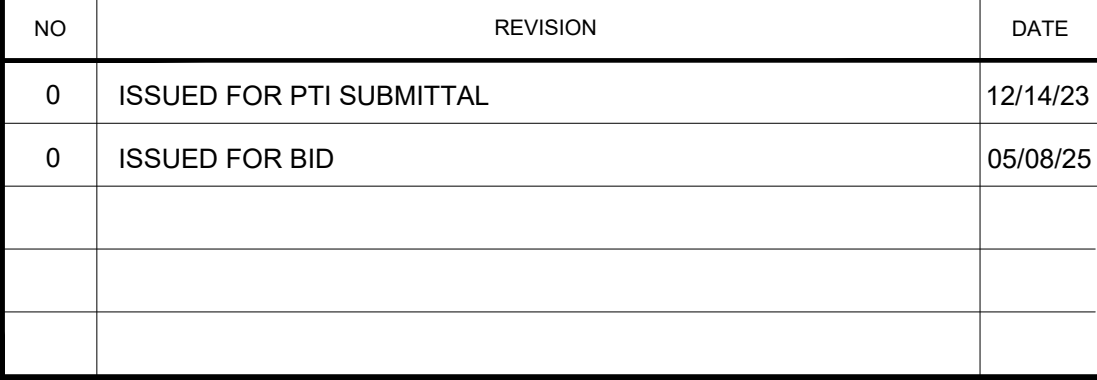
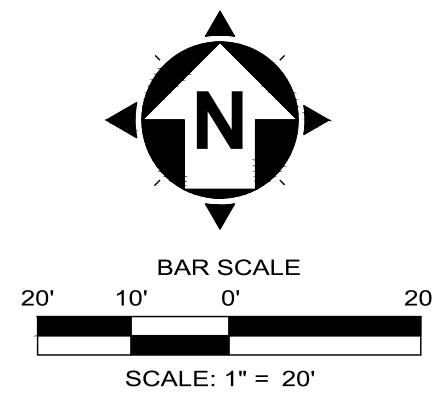
NORTH ROYALTON, OHIO

ISSUED FOR:	BID
ISSUE DATE:	JUNE, 2025
SCALE:	AS SHOWN
DESIGNED BY:	WTV/JRH
DRAWN BY:	WTV
CHECKED BY:	JRH

PLAN AND PROFILE
50+00-55+00

PROJECT NO.	220259
DISCIPLINE	CIVIL
SHEET NAME	
SHEET	OF
11	12

1. ALL LATERALS UNDER THE EXISTING ROADWAY SHALL BE BORED AND JACKED
2. MAINTAIN MINIMUM 10 FT. HORIZONTAL AND 18 IN. VERTICAL CLEARANCE (OUT TO OUT) BETWEEN ALL WATER MAIN OR SERVICE LINE AND ALL SANITARY OR STORM SEWER MAIN LINE OR SERVICE LATERAL, STRUCTURE OR SANITARY FORCE MAIN.
3. MAINTAIN MINIMUM 5 FT. HORIZONTAL AND 12 IN. VERTICAL CLEARANCE (OUT TO OUT) BETWEEN ALL SANITARY LINE, FORCE MAIN, SERVICE LATERAL OR STRUCTURE AND ALL STORM SEWER MAIN LINE, SERVICE LATERAL OR STRUCTURE.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TREES AND SHRUBBERY WITHIN 12' OF RELOCATED POLES, WIRES, AND GUYS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING EASEMENTS OR ADDITION ROW, IF REQUIRED, FOR POLES, WIRES AND GUYS THAT FALL OUTSIDE OF THE ROW.
NON-ILLUMINATING CO. PERSONNEL ARE NOT PERMITTED TO HOLD OR BRACE POLES. FOR THIS SERVICE, CREATE AN ORDER BY CALLING 800-589-3101.
5. THE CONTRACTOR SHALL NOTIFY RESIDENTS WHEN PROPOSED WORK AREAS MAY EXPAND ONTO PRIVATE PROPERTY.



NORTH ROYALTON, OHIO

POINT TABLE					
POINT #	NORTHING	EASTING	DESCRIPTION	NORTHING (AS-BUILT)	EASTING (AS-BUILT)
1	594586.9003	2183731.0540	PR. TEST TEE		
2	594586.8657	2183857.5649	PR. TEST TEE		
3	594586.8408	2183948.7197	PR. TEST TEE		
4	594586.8290	2183992.0288	PR. TEST TEE		
5	594586.7953	2184115.6442	PR. TEST TEE		
6	594586.7663	2184221.6741	PR. TEST TEE		
7	594586.7423	2184309.7523	PR. TEST TEE		
8	594586.7246	2184374.4742	PR. TEST TEE		
9	594586.6903	2184500.0935	PR. TEST TEE		
10	594586.6464	2184660.8749	PR. TEST TEE		
11	594586.6408	2184681.5512	PR. TEST TEE		
12	594586.6083	2184800.5697	PR. TEST TEE		
13	594586.5836	2184890.7581	PR. TEST TEE		
14	594586.5250	2185105.4113	PR. TEST TEE		
15	594586.4898	2185234.3779	PR. TEST TEE		
16	594586.4026	2185553.7496	PR. TEST TEE		
17	594586.3648	2185692.2760	PR. TEST TEE		
18	594586.3288	2185824.3597	PR. TEST TEE		
19	594586.3083	2185899.2369	PR. TEST TEE		
20	594586.2570	2186087.0870	PR. TEST TEE		
21	594586.2456	2186132.7379	PR. TEST TEE		
22	594586.1575	2186362.8293	PR. TEST TEE		
23	594586.0385	2186630.4356	PR. TEST TEE		
24	594525.9102	2183740.6186	PR. TEST TEE		
25	594525.8934	2183802.2653	PR. TEST TEE		
26	594525.8595	2183926.4286	PR. TEST TEE		
27	594525.8239	2184056.6496	PR. TEST TEE		
28	594525.8060	2184122.2852	PR. TEST TEE		
29	594525.7739	2184239.7434	PR. TEST TEE		
30	594525.7551	2184308.6148	PR. TEST TEE		
31	594525.7281	2184407.6590	PR. TEST TEE		
32	594525.6886	2184552.2076	PR. TEST TEE		
33	594525.5234	2184638.6140	PR. TEST TEE		
34	594525.6453	2184710.8508	PR. TEST TEE		
35	594525.6234	2184791.0488	PR. TEST TEE		
36	594525.5561	2185037.5836	PR. TEST TEE		
37	594525.5435	2185083.8975	PR. TEST TEE		
38	594525.5008	2185240.0447	PR. TEST TEE		
39	594525.4738	2185339.0633	PR. TEST TEE		
40	594525.4489	2185430.2034	PR. TEST TEE		
41	594525.4277	2185508.0715	PR. TEST TEE		
42	594525.3878	2185653.9457	PR. TEST TEE		
43	594525.3731	2185708.0852	PR. TEST TEE		
44	594525.3423	2185820.8524	PR. TEST TEE		
45	594525.2971	2185986.1092	PR. TEST TEE		
46	594525.2727	2186075.8411	PR. TEST TEE		
47	594525.1837	2186300.1242	PR. TEST TEE		
48	594525.0529	2186626.3509	PR. TEST TEE		
49	594524.9664	2186820.9365	PR. TEST TEE		
50	594524.9383	2186884.2131	PR. TEST TEE		
51	594524.8997	2186970.9577	PR. TEST TEE		

PROJECT NO.	
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CIVIL	
SHEET NAME	
SHEET	OF
12	12