

COLERAIN HIGH SCHOOL STADIUM SEWER AND WATER IMPROVEMENTS

SECTION 8, TOWN 2, RANGE 1

COLERAIN TOWNSHIP

8801 CHEVIOT RD

CINCINNATI, OHIO 45251



OWNER:
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CIVIL ENGINEER:
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VICINITY MAP
N.T.S

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WHAT DO I NEED TO DO FOR
"Add HAMCO Benchmark"

Ask Matt Habedank.
It should be on the
survey he did.

SEAL:

NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

**COLERAIN HS
STADIUM SEWER
& WATER
IMPROVEMENTS**
8801 CHEVIOT RD
CINCINNATI, OH 45251

PROJECT NO: 980438.018
DATE: 02/05/2024

SCALE:

SHEET NAME:

TITLE SHEET

SHEET NO.

1 OF 9

GENERAL NOTES

- HAMILTON COUNTY, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION AND MATERIAL SPECIFICATIONS (DOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE DOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE DOT CMS AND HAMILTON COUNTY REQUIREMENTS, THE HAMILTON COUNTY REQUIREMENTS SHALL PREVAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (6-1-1 OR 1-800-362-2754) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
- ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE, OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
- ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT, DIVISION OF WATER, OHIO DEPARTMENT OF NATURAL RESOURCES, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224, 614-265-9717.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
- ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGE AREA SHALL BE RE-CUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

- CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
- PROTECTION OF EXISTING TREES AND VEGETATION; PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY HAMILTON COUNTY AND THE OHIO EPA.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINISH GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.

UTILITY NOTES

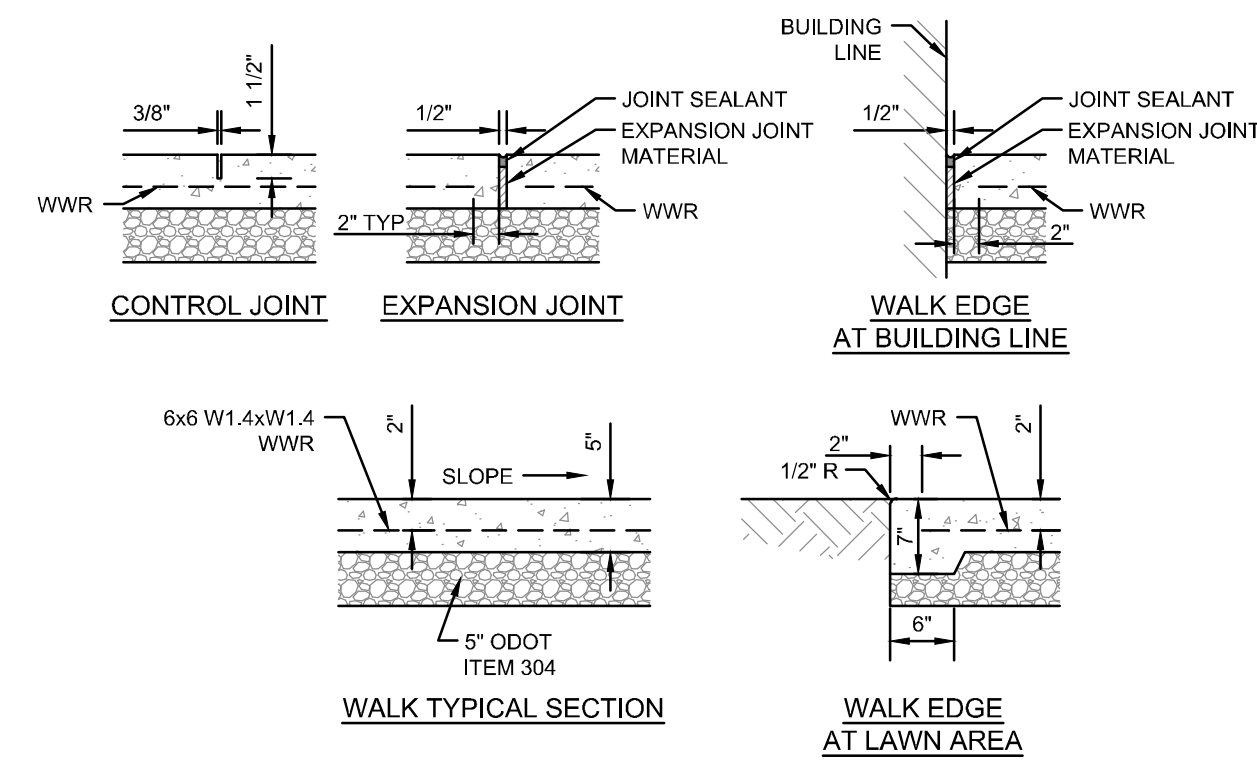
- ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPAIRING SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
- UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
- CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
- ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
- ALL SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 4' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
- DISTANCES SHOWN FOR SANITARY SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
- ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
- ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
- THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

- SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF HAMILTON COUNTY. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE HAMILTON COUNTY AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
- SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 18" HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER.
- WATERLINE SHALL BE DUCTILE IRON PIPE PER GOWW REQUIREMENTS

MSD SANITARY SEWER NOTES

- ALL PLANS AND CONSTRUCTION WITHIN HAMILTON COUNTY SHALL COMPLY WITH THE LATEST EDITION OF THE "RULES AND REGULATIONS" MANUAL GOVERNING THE DESIGN, CONSTRUCTION, MAINTENANCE, OPERATION, AND USE OF SANITARY AND COMBINED SEWERS IN THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI, HAMILTON COUNTY, OHIO, EFFECTIVE MARCH 1, 2001. COPIES MAY BE OBTAINED FROM THE DIVISION OF WASTEWATER ENGINEERING MSD, 1600 GEST STREET, CINCINNATI, OHIO 45204.
- ALL SANITARY SEWERS SHALL BE CONSTRUCTED UNDER THE INSPECTION OF THE CHIEF ENGINEER, MSD.
- THE OWNERS OF ALL PROPERTIES SHOWN ON THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO ALL APPLICABLE SEWER SERVICE CHARGES, ASSESSMENTS, TAP-IN CHARGES OR FEES WHICH HAVE BEEN OR MAY BE ESTABLISHED BY THE BOARD OF COUNTY COMMISSIONERS.
- APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION THE EXACT LOCATION OF UNDERGROUND UTILITIES.
- ALL SANITARY SEWER PIPE SHALL BE PVC, SDR35, ASTM D-3034 IN ACCORDANCE WITH MSD RULES AND REGULATIONS, EXCEPT WHERE NOTED.
- ALL MANHOLES ON SANITARY SEWERS SHALL BE TYPE "S" MSD ACCESSION NO. 49037.
- SANITARY MANHOLES SHALL BE TEMPORARILY CONSTRUCTED TO AN ELEVATION OF TWO FEET ABOVE THE SURROUNDING GRADE BY MEANS OF AN ADDITIONAL MANHOLE SECTION OR BRICK MASONRY ON TOP OF THE CONE.
- SANITARY BUILDING SEWERS FOR PUBLIC AND PRIVATE SEWERS SHALL NOT BE EXTENDED MORE THAN TEN (10) FEET BEYOND THE PROPOSED RIGHT-OF-WAY LINE, EASEMENT LINE OR, IN CASES OF PRIVATE SEWERS, NO MORE THAN TEN (10) FEET BEYOND THE MAIN LINE SEWER PRIOR TO ISSUANCE OF TAP PERMITS.
- TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE RIGHT-OF-WAY LINE OR SANITARY SEWER EASEMENT, WHERE APPLICABLE, IN ACCORDANCE TO MSD ACCESSION NO. 61979.
- ALL LOWEST FINISHED FLOOR ELEVATIONS SHALL BE AT LEAST 36 INCHES ABOVE THE CROWN OF THE SEWER AT THE POINT OF TAP CONNECTION TO SAID SEWER, WHETHER PUBLIC OR PRIVATE, AND/OR IN ACCORDANCE WITH CITY OF CINCINNATI SUPPLEMENT CC-51-49. ANY BUILDING TO BE SERVED BY MEANS OTHER THAN GRAVITY MUST BE SO NOTED ON THE PLANS.
- ALL MANHOLES ON PUBLIC SANITARY SEWERS SHALL HAVE STANDARD LIDS AND FRAMES, MSD ACCESSION NO. 49005, EXCEPT WHERE NOTED. THE FRAME SHALL BE SECURELY FASTENED TO THE TOP MANHOLE SECTION BY FOUR 3/4-INCH STAINLESS STEEL CINCINCHORS.
- CONTRACTOR'S LICENSE - ALL WORK DONE ON SANITARY AND/OR COMBINED SEWERS WITHIN THE JURISDICTION OF THE METROPOLITAN SEWER DISTRICT MUST BE DONE BY A CONTRACTOR WHO IS AN APPROVED SEWER TAPPER PROPERLY LICENSED BY THE DEPARTMENT AND BONDED.
- SANITARY BUILDING SEWERS SHALL BE CONNECTED TO THE MAIN LINE WITH WYES. TEE FITTINGS ARE TO BE USED ONLY WHERE SHOWN ON THE APPROVED PLAN.
- A TAP PERMIT IS REQUIRED FOR EACH BUILDING. BOND OR FINAL APPROVAL OF THE MAIN LINE IS REQUIRED PRIOR TO ISSUANCE OF A TAP PERMIT.
- SANITARY SEWER CONSTRUCTION MUST COMMENCE WITHIN 12 MONTHS AND BE COMPLETED WITHIN 36 MONTHS OF THE DATE OF APPROVAL SHOWN HEREON OR THESE PLANS BECOME VOID.
- FOR SANITARY SEWER MANHOLES CONSTRUCTED IN PARKING LOTS, THE RIM ELEVATION SHALL BE 1" HIGHER THAN THE SURROUNDING GRADE AND THE PAVEMENT SHALL BE FEATHERED AWAY FROM THE MANHOLE RIM AT A GRADUAL SLOPE.
- FOR SANITARY MANHOLES CONSTRUCTED IN GRASS AREAS, THE RIM ELEVATION SHALL BE 3" HIGHER THAN THE SURROUNDING GRADE, AND THE FILL SHALL BE FEATHERED AWAY FROM THE MANHOLE RIM AT A GRADUAL SLOPE.
- ROOF DRAINS, FOUNDATION DRAINS, COOLING WATER, SWIMMING POOL, WATER OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- TO ASSURE THAT STORMWATER DOES NOT ENTER THE SANITARY SEWER SYSTEM, A SCHEMATIC PLAN OF THE FOOTING AND FOUNDATION DRAINAGE SYSTEM, INCLUDING THE POINT OF DISCHARGE, IS NECESSARY.
- THE CONTRACTOR SHALL TEST ALL MANHOLES LEAKAGE BY MEANS OF VACUUM TESTING. THE VACUUM TESTING CANNOT BE DONE UNTIL AFTER THE MANHOLES ARE SET TO FINAL GRADE AND THE MANHOLE CASTINGS ARE BOLTED DOWN. ALL LIFT HOLES SHALL BE PLUGGED. ANY OTHER OPENINGS, SUCH AS FOR PRESSURE RELIEF VALVES, SHALL BE TEMPORARILY PLUGGED TO ALLOW THE VACUUM TEST. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED AND CARE SHALL BE TAKEN TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. THE VACUUM EQUIPMENT TEST HEAD SHALL BE PLACED IN THE OPENING OF THE CASTING ONLY, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. VACUUM TESTING SHALL BE IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES MERCURY (10" HG) SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO NINE INCHES MERCURY (9" HG). THE MANHOLE SHALL PASS IF THE TIME MEETS OR EXCEEDS THE ALLOWABLE TIMES AS CALCULATED FROM ASTM C1244, OR AS APPROVED BY THE ENGINEER. ALL MANHOLE REPAIR AND RETESTING REQUIRED BECAUSE OF THE FAILURE TO MEET THE TESTING REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR AT HIS COST.
- ALL SANITARY SEWERS WITHIN THIS DEVELOPMENT TO BE PRIVATE ARE TO BE MAINTAINED BY THE OWNER.

ADDED MSD SANITARY NOTES HERE INSTEAD OF ON TITLE SHEET

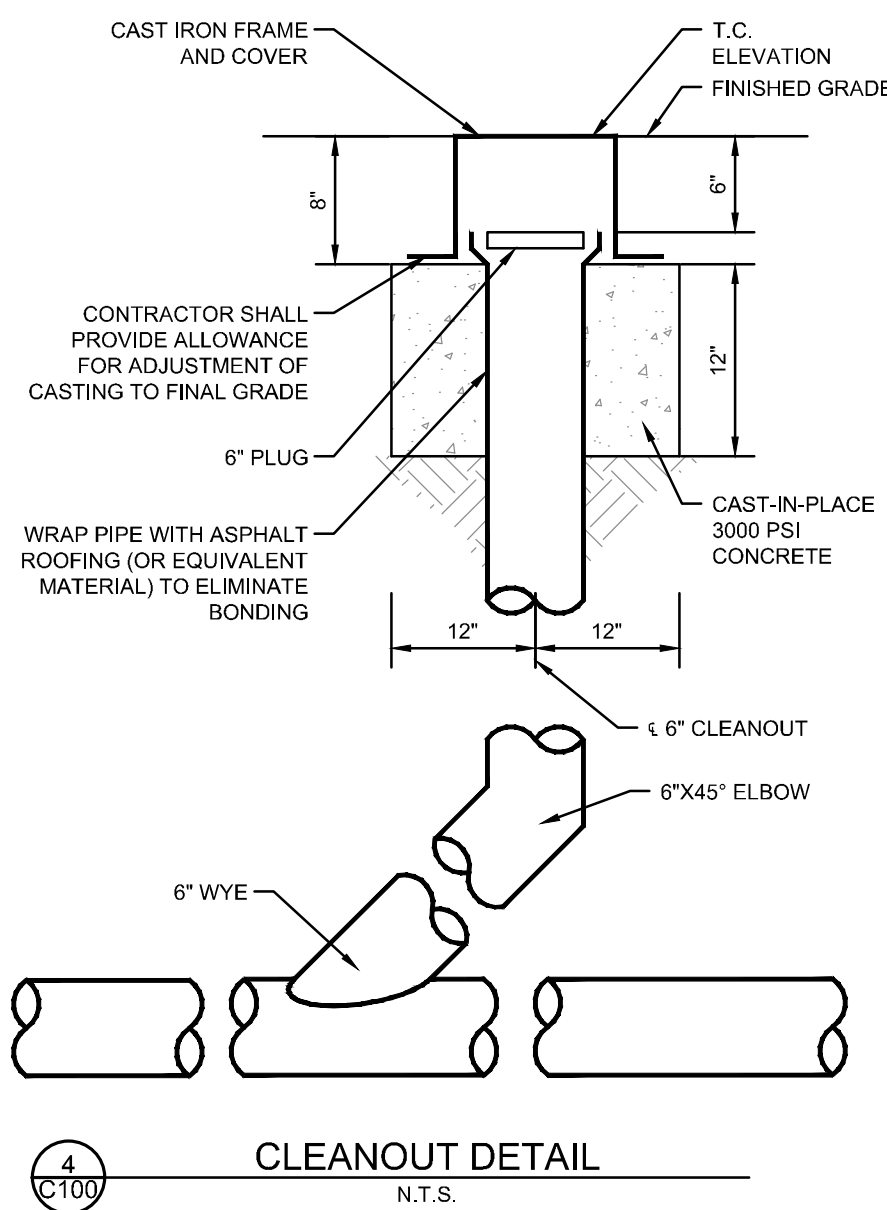


NOTES:

- INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
- INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED. SAWED JOINTS ARE NOT PERMITTED.
- WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
- WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
- JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK DETAIL

N.T.S.



STANDARD DUTY ASPHALT PAVEMENT DETAIL

N.T.S.

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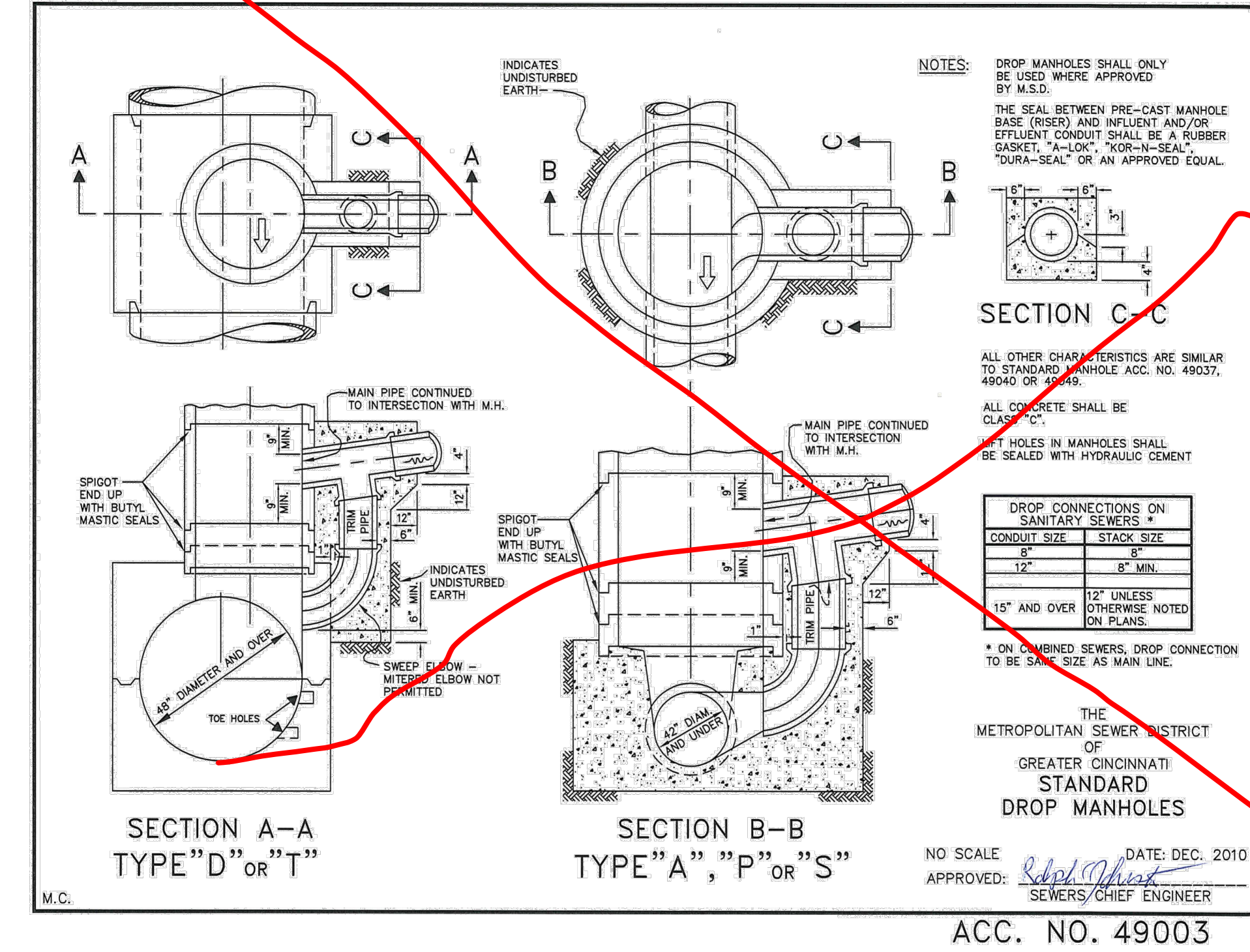
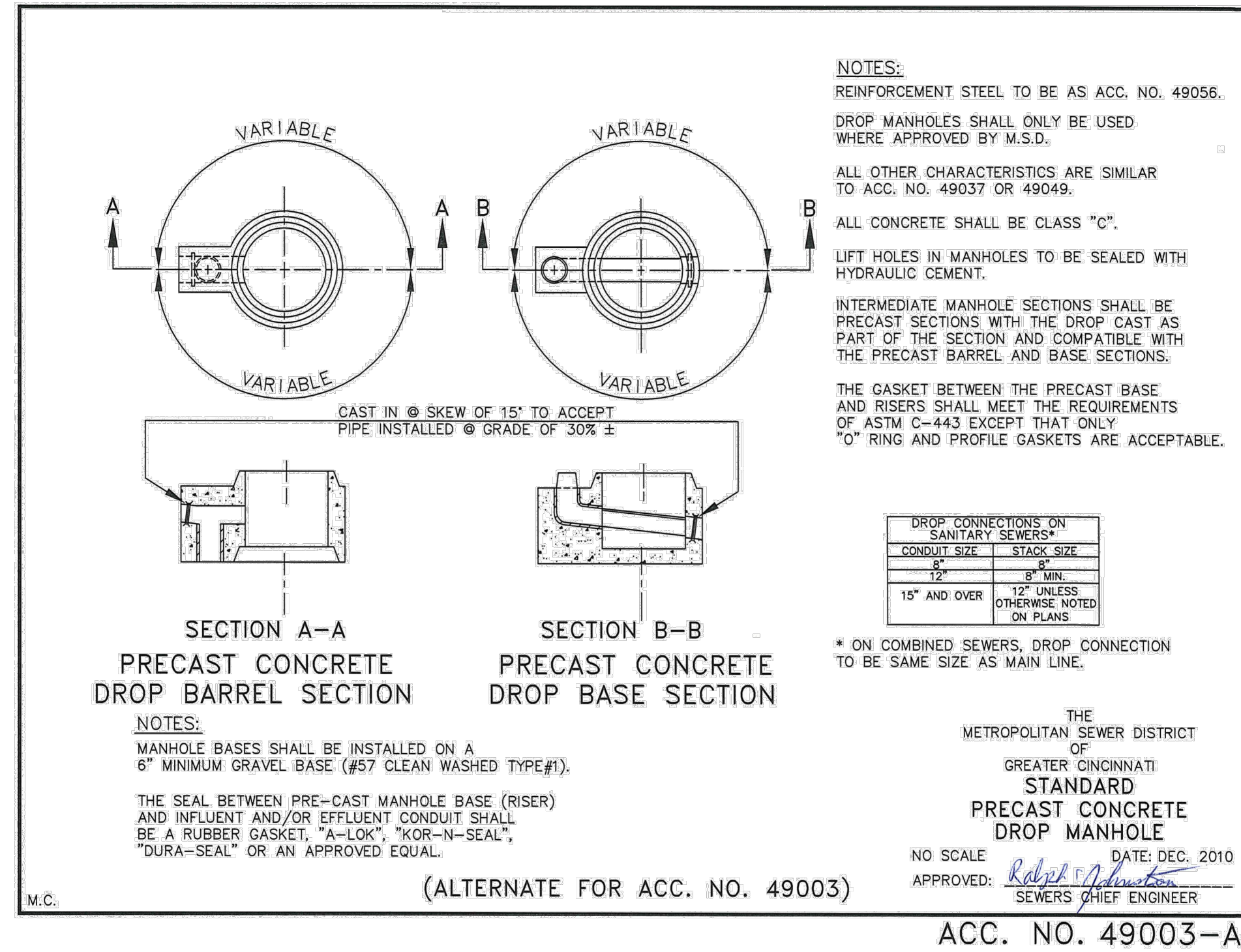
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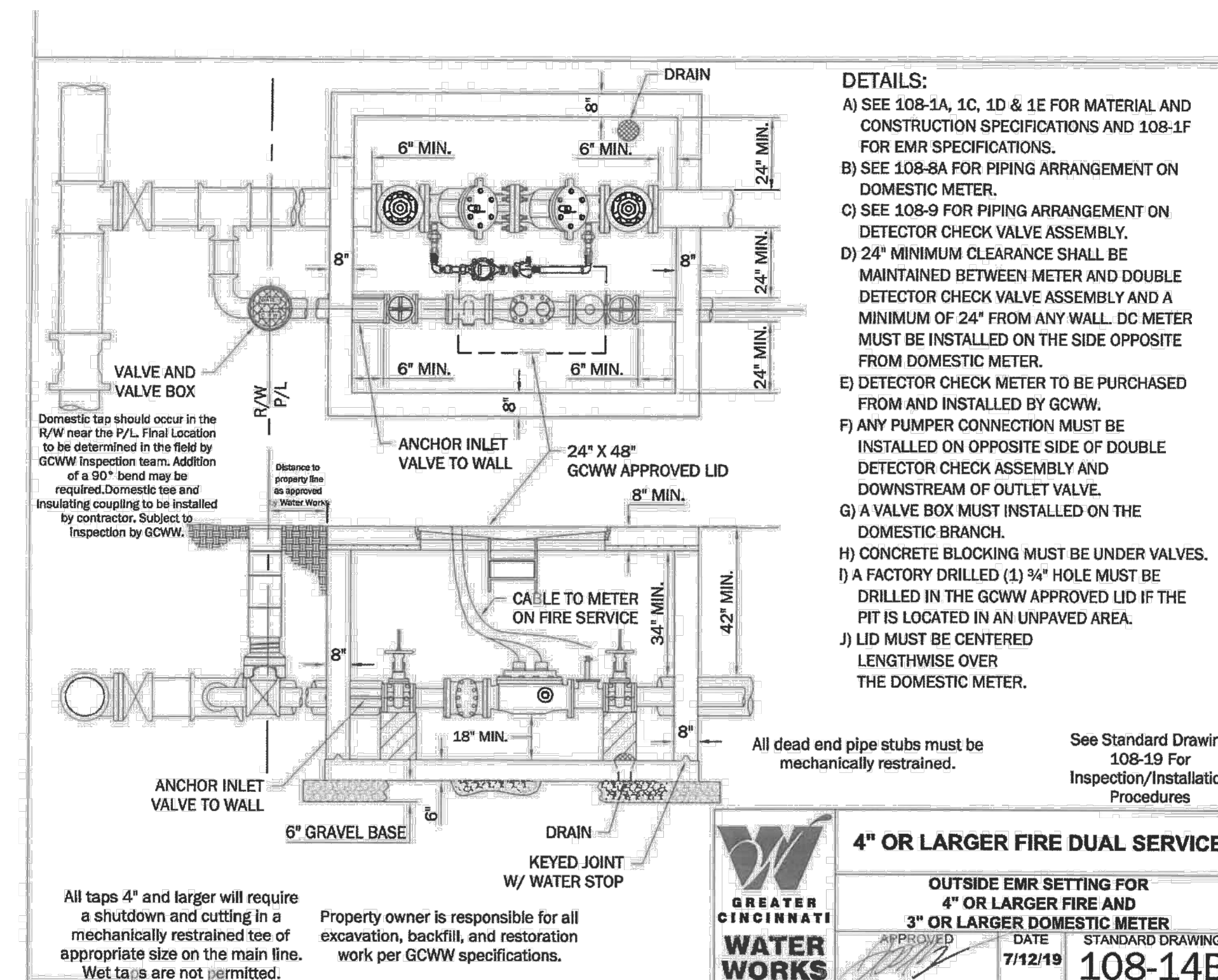
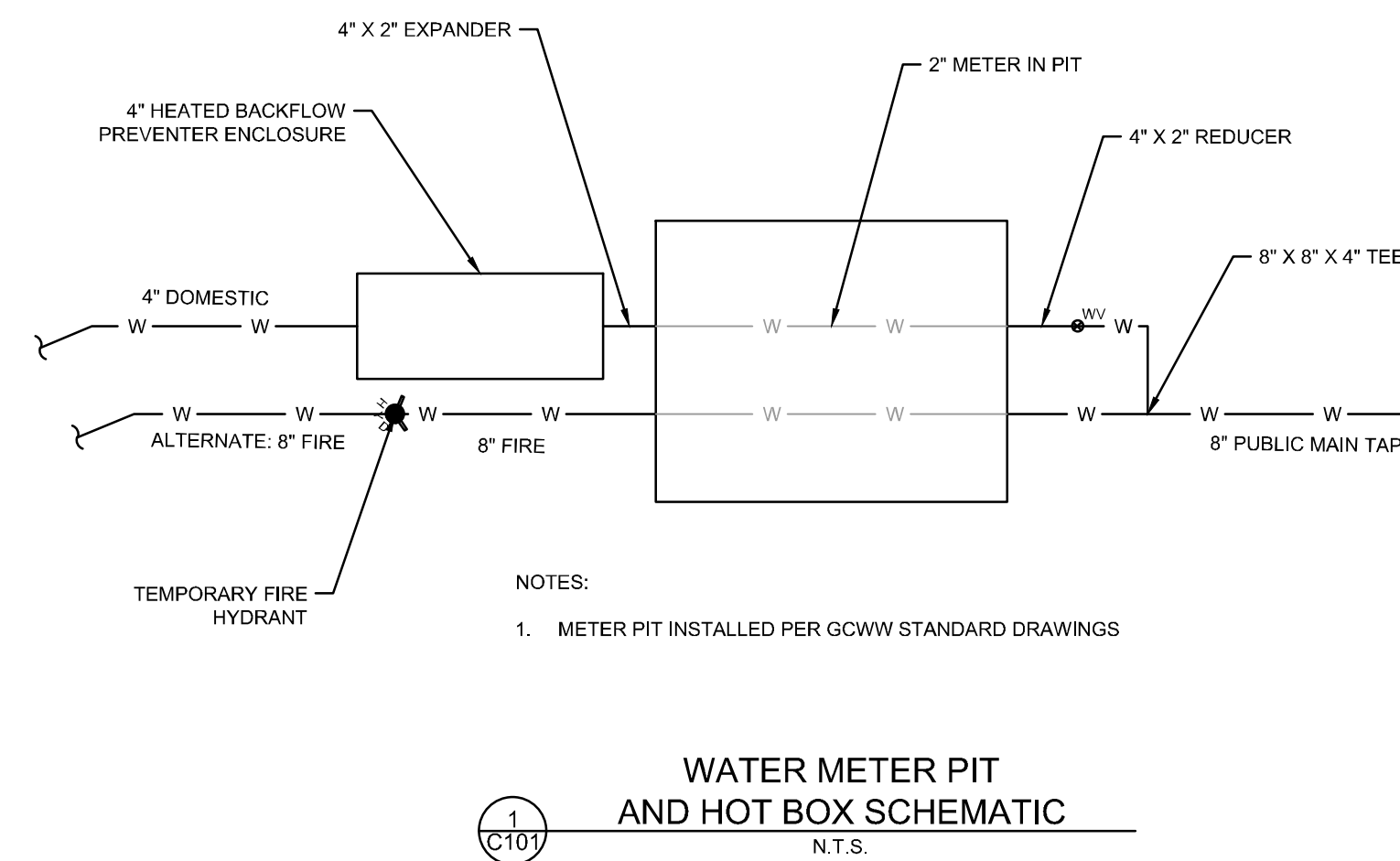
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GENERAL NOTES & DETAILS



DID THEY WANT BOTH DETAILS HERE?

USE 49003-A



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MSDGC DETAILS

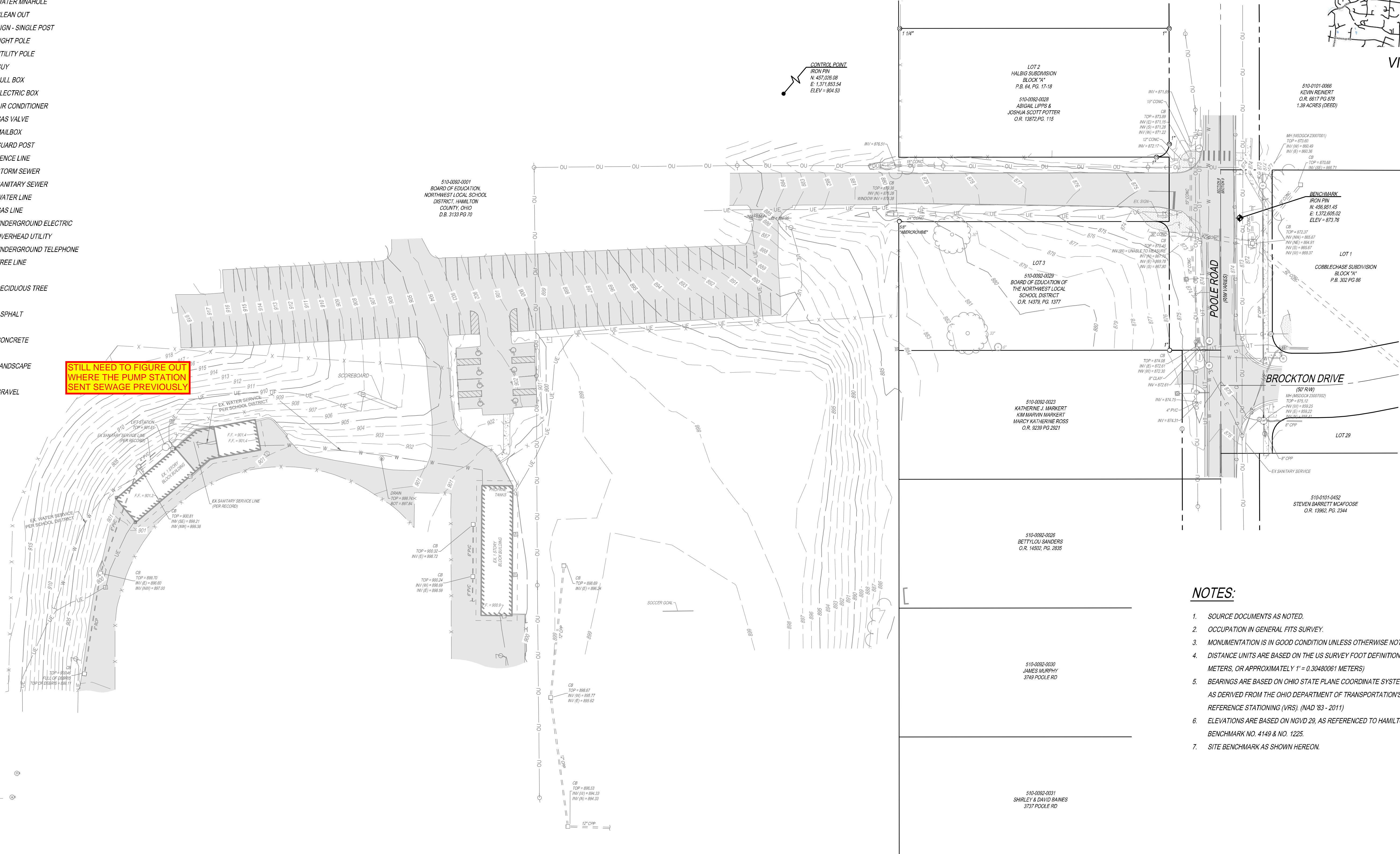
LEGEND

- BENCHMARK
- 5/8" IRON PIN FOUND (UNLESS OTHERWISE NOTED)
- PIPE FOUND (SIZE AS NOTED)
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- CATCH BASIN
- YARD DRAIN
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- WATER MANHOLE
- CLEAN OUT
- SIGN - SINGLE POST
- LIGHT POLE
- UTILITY POLE
- GUY
- PULL BOX
- ELECTRIC BOX
- AIR CONDITIONER
- GAS VALVE
- MAILBOX
- GUARD POST
- FENCE LINE
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITY
- UNDERGROUND TELEPHONE
- TREE LINE
- DECIDUOUS TREE
- ASPHALT
- CONCRETE
- LANDSCAPE
- GRAVEL

STILL NEED TO FIGURE OUT WHERE THE PUMP STATION SENT SEWAGE PREVIOUSLY



VICINITY MAP
N.T.S.

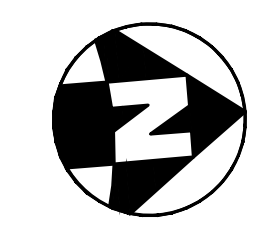


NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS, OR APPROXIMATELY 1" = 0.30480061 METERS)
5. BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS), (NAD '83 - 2011)
6. ELEVATIONS ARE BASED ON NGVD 29, AS REFERENCED TO HAMILTON COUNTY BENCHMARK NO. 4149 & NO. 1225.
7. SITE BENCHMARK AS SHOWN HEREON.



NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.



SS# 7279 (PRIVATE)

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


































SURVEY BASEMAP

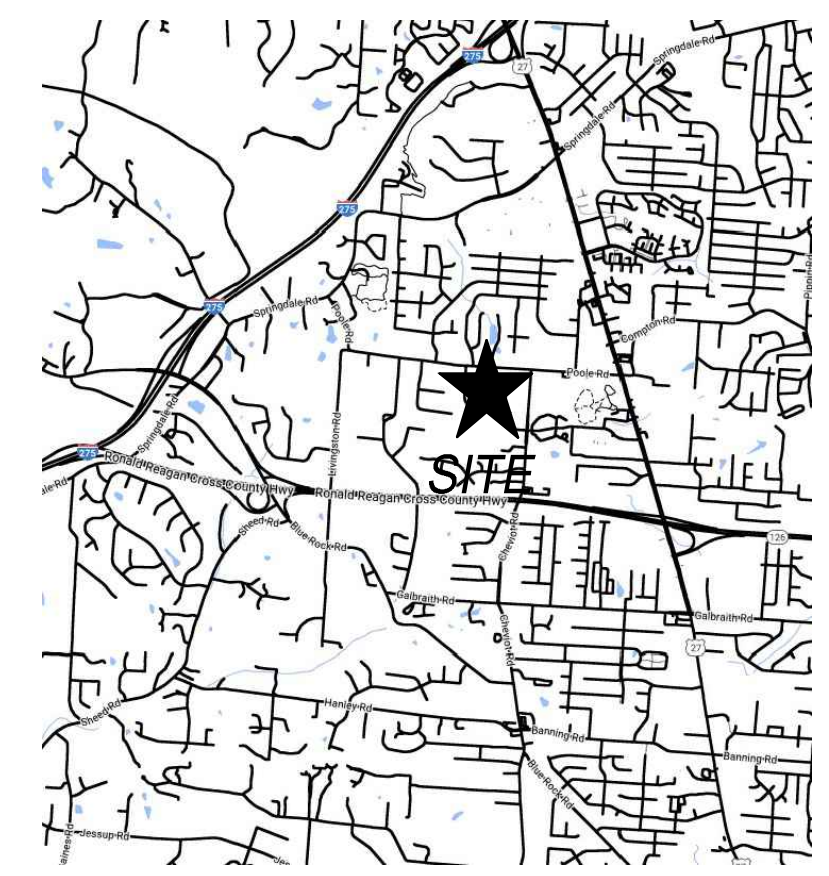
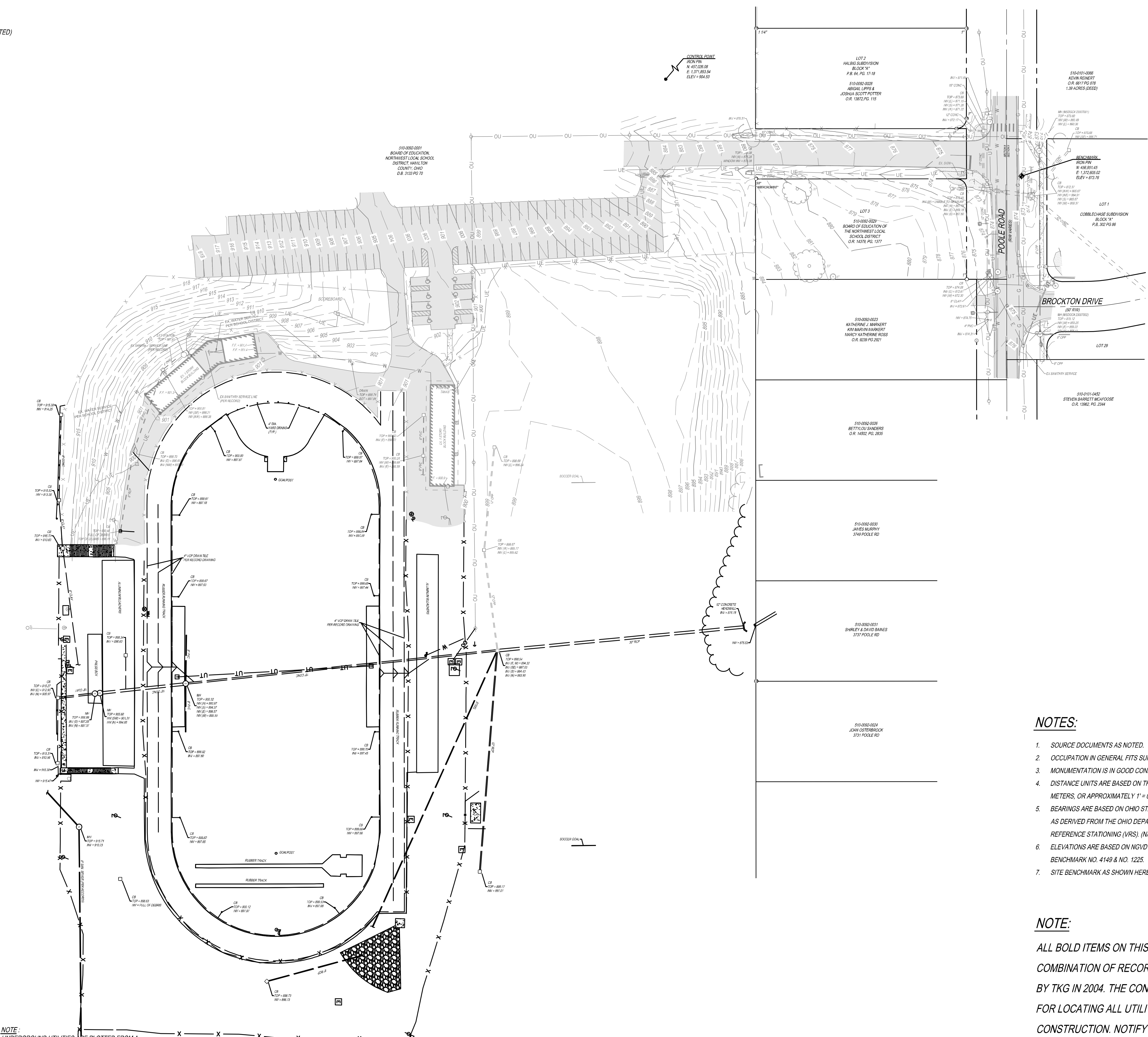
SHEET NO.

4 OF 9

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LEGEND

-  BENCHMARK
-  5/8" IRON PIN FOUND (UNLESS OTHERWISE NOTED)
-  PIPE FOUND (SIZE AS NOTED)
-  TELEPHONE MANHOLE
-  SANITARY MANHOLE
-  CATCH BASIN
-  YARD DRAIN
-  WATER METER
-  WATER VALVE
-  FIRE HYDRANT
-  WATER MANHOLE
-  CLEAN OUT
-  SIGN - SINGLE POST
-  LIGHT POLE
-  UTILITY POLE
-  GUY
-  PULL BOX
-  ELECTRIC BOX
-  AIR CONDITIONER
-  GAS VALVE
-  MAILBOX
-  GUARD POST
-  FENCE LINE
-  STORM SEWER
-  SANITARY SEWER
-  WATER LINE
-  GAS LINE
-  UNDERGROUND ELECTRIC
-  OVERHEAD UTILITY
-  UNDERGROUND TELEPHONE
-  TREE LINE
-  DECIDUOUS TREE
-  ASPHALT
-  CONCRETE
-  LANDSCAPE
-  GRAVEL




THE KLEINGERS GROUP

CIVIL ENGINEERING www.kleingers.com
SURVEYING
LANDSCAPE ARCHITECTURE 6219 Centre Park Dr.
West Chester, OH 45069
513.779.7851

SEAL:

NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

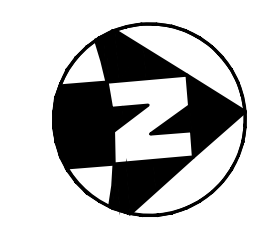
NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS, OR APPROXIMATELY 1" = 0.30480061 METERS)
5. BEARINGS ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AS DERIVED FROM THE OHIO DEPARTMENT OF TRANSPORTATION'S VIRTUAL REFERENCE STATIONING (VRS), (NAD '83 - 2011)
6. ELEVATIONS ARE BASED ON NGVD 29, AS REFERENCED TO HAMILTON COUNTY BENCHMARK NO. 4149 & NO. 1225.
7. SITE BENCHMARK AS SHOWN HEREON.

NOTE:

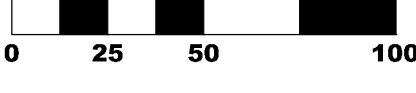
ALL BOLD ITEMS ON THIS SHEET ARE SHOWN PER COMBINATION OF RECORD DOCUMENTS AND SURVEY BY TKG IN 2004. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

NOTE:
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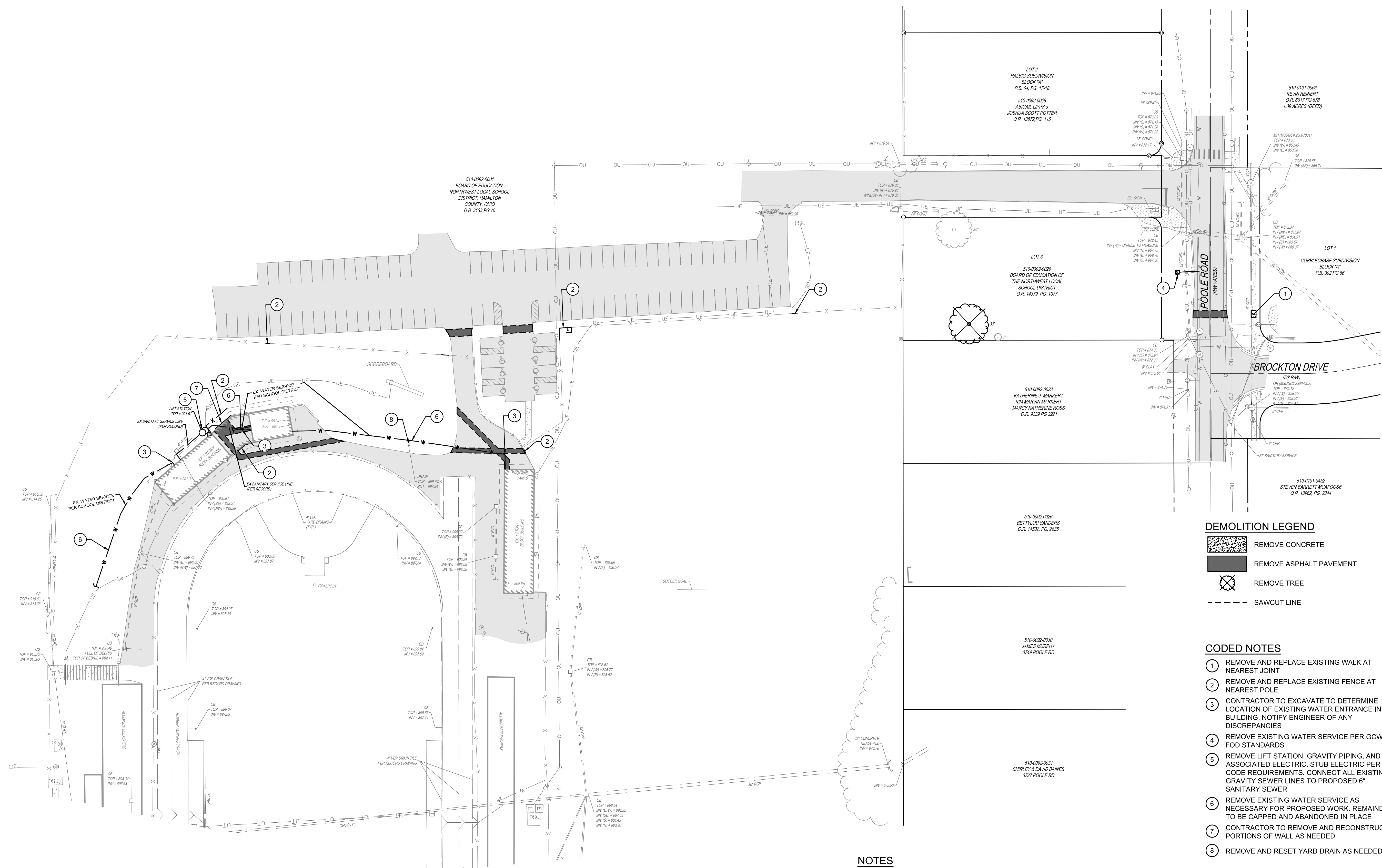


SS# 7279 (PRIVATE)





**COLERAIN HS
STADIUM SEWER
& WATER
IMPROVEMENTS**
8801 CHEVIOT RD
CINCINNATI, OH 45251

PROJECT NO.	980438.018
DATE:	02/05/2024
SCALE:	
SHEET NAME:	SUPPLEMENTAL BASEMAP

SHEET NO.
5 OF 9



DEMOLITION LEGEND

-  REMOVE CONCRETE
-  REMOVE ASPHALT PAVEMENT
-  REMOVE TREE
-  SAWCUT LINE

- CODED NOTES**
- 1 REMOVE AND REPLACE EXISTING WALK AT NEAREST JOINT
 - 2 REMOVE AND REPLACE EXISTING FENCE AT NEAREST POLE
 - 3 CONTRACTOR TO EXCAVATE TO DETERMINE LOCATION OF EXISTING WATER ENTRANCE INTO BUILDING. NOTIFY ENGINEER OF ANY DISCREPANCIES
 - 4 REMOVE EXISTING WATER SERVICE PER GCWW FOD STANDARDS
 - 5 REMOVE LIFT STATION, GRAVITY PIPING, AND ASSOCIATED ELECTRIC. STUB ELECTRIC PER CODE REQUIREMENTS. CONNECT ALL EXISTING GRAVITY SEWER LINES TO PROPOSED 6" SANITARY SEWER
 - 6 REMOVE EXISTING WATER SERVICE AS NECESSARY FOR PROPOSED WORK. REMAINDER TO BE CAPPED AND ABANDONED IN PLACE
 - 7 CONTRACTOR TO REMOVE AND RECONSTRUCT PORTIONS OF WALL AS NEEDED
 - 8 REMOVE AND RESET YARD DRAIN AS NEEDED

- NOTES**
1. ALL BOLD ITEMS TO BE REMOVED.
 2. ALL EXISTING UTILITIES TO REMAIN UNLESS EXPLICITLY NOTED OTHERWISE.
 3. CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES


NOTE:
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SEAL:

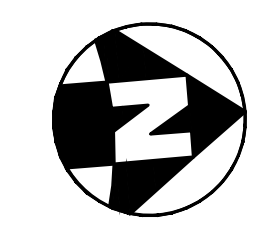
NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

COLERAIN HS STADIUM SEWER & WATER IMPROVEMENTS
 8801 CHEVIOT RD
 CINCINNATI, OH 45251

PROJECT NO.	980438.018
DATE:	02/05/2024
SCALE:	
SHEET NAME:	

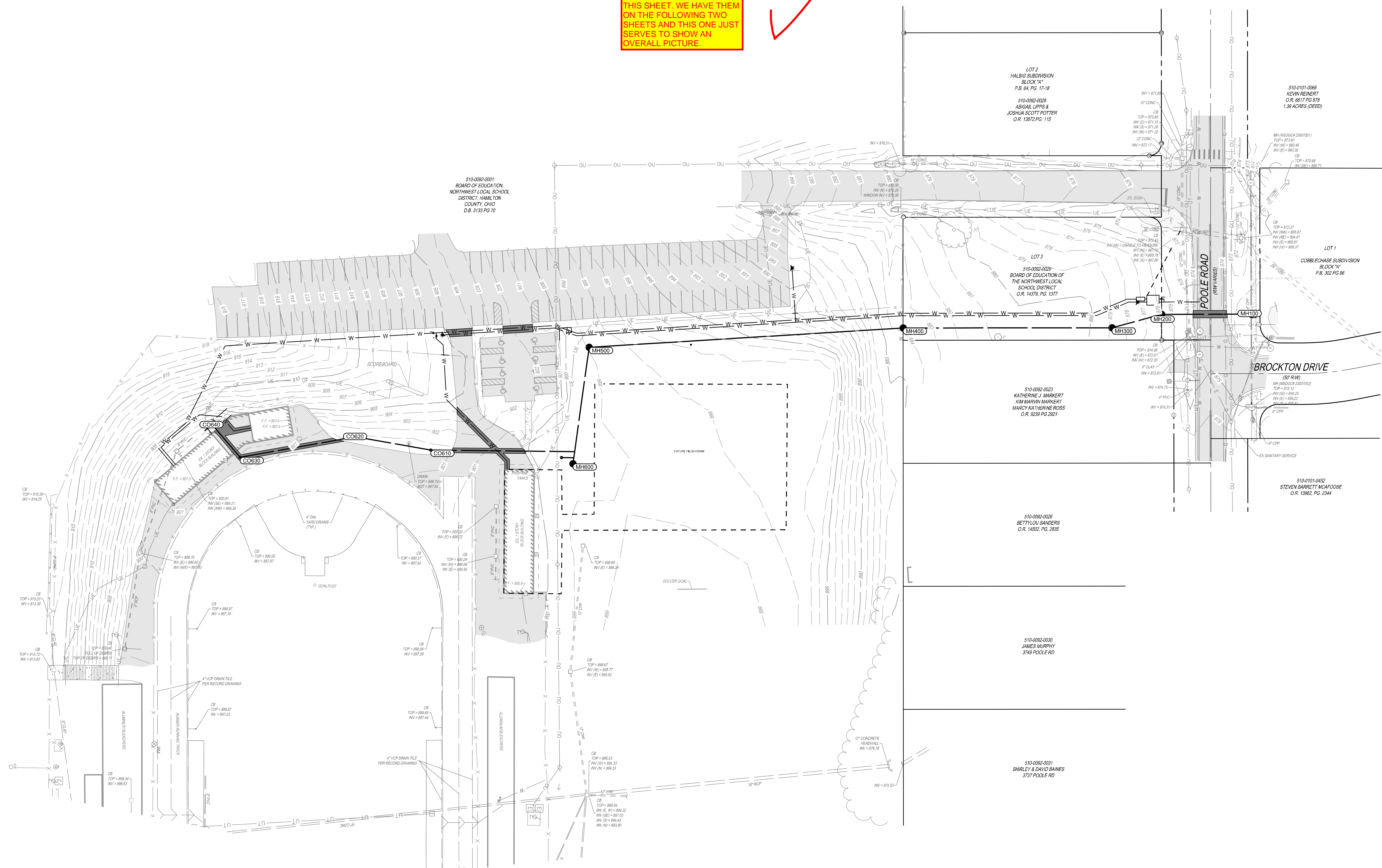
DEMOLITION PLAN

SS# 7279 (PRIVATE)

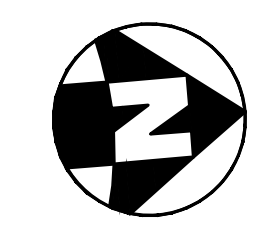


H:\Engineering\2024\Engineering\UPPER\8801HS\8801HS.dwg, 3/8/2024, 4:42:28 PM, Kevin LaCombe

I DIDNT ADD PIPE LABELS ON THIS SHEET. WE HAVE THEM ON THE FOLLOWING TWO SHEETS AND THIS ONE JUST SERVES TO SHOW AN OVERALL PICTURE.



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SS# 7279 (PRIVATE)

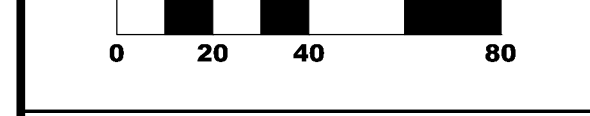
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NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

COLERAIN HS STADIUM SEWER & WATER IMPROVEMENTS
 8801 CHEVIOT RD
 CINCINNATI, OH 45251

PROJECT NO: 980438.018

DATE: 02/05/2024

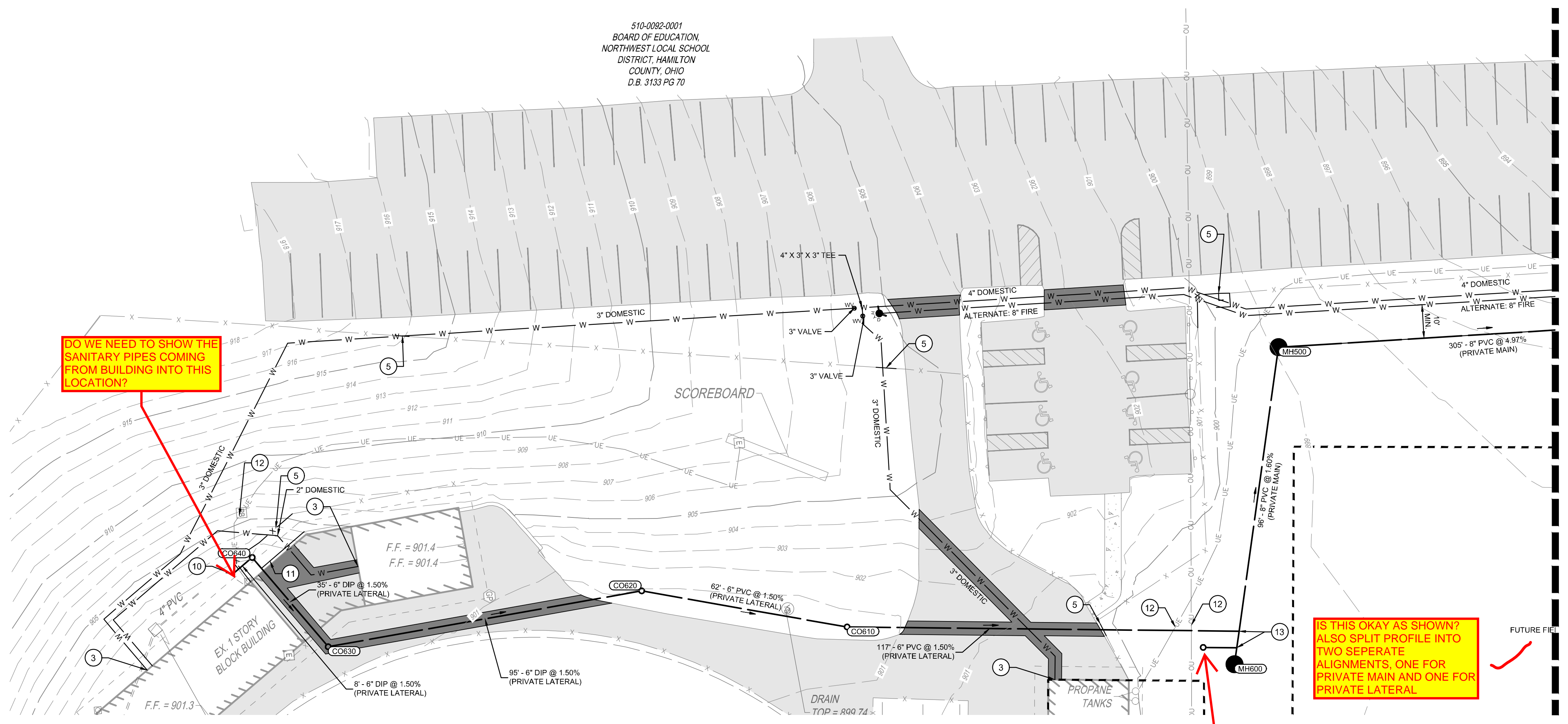


SHEET NAME:
OVERALL UTILITY PLAN

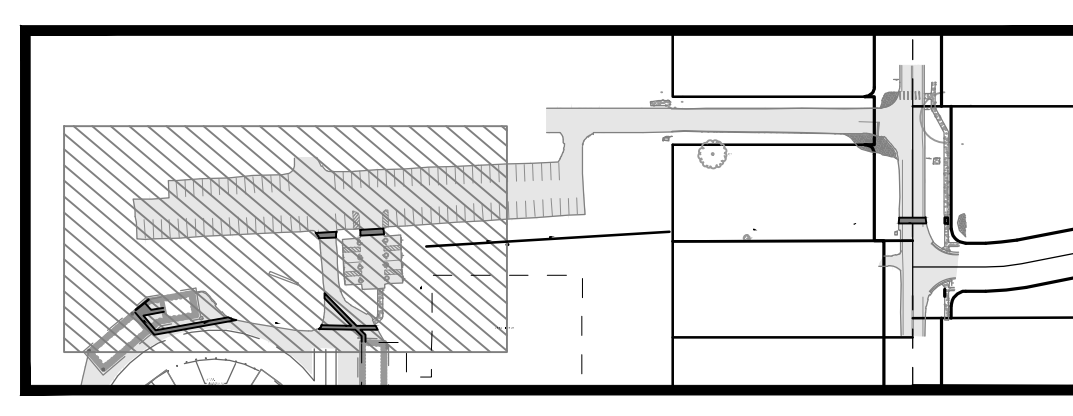
SHEET NO.
7 OF 9

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510-0092-0001
BOARD OF EDUCATION,
NORTHWEST LOCAL SCHOOL
DISTRICT, HAMILTON
COUNTY, OHIO
D.B. 3133 PG 70



MATCHLINE - SHEET C132

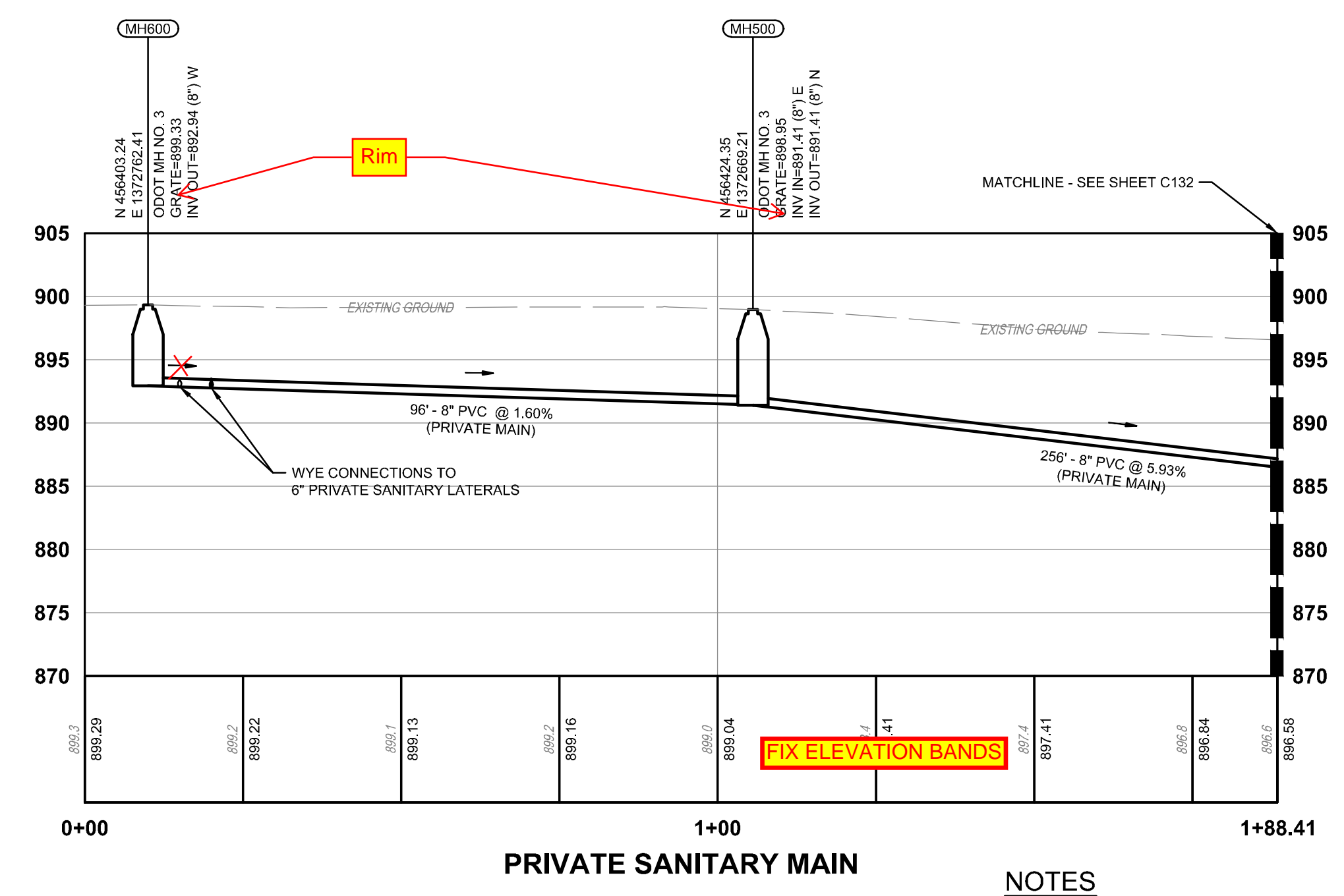
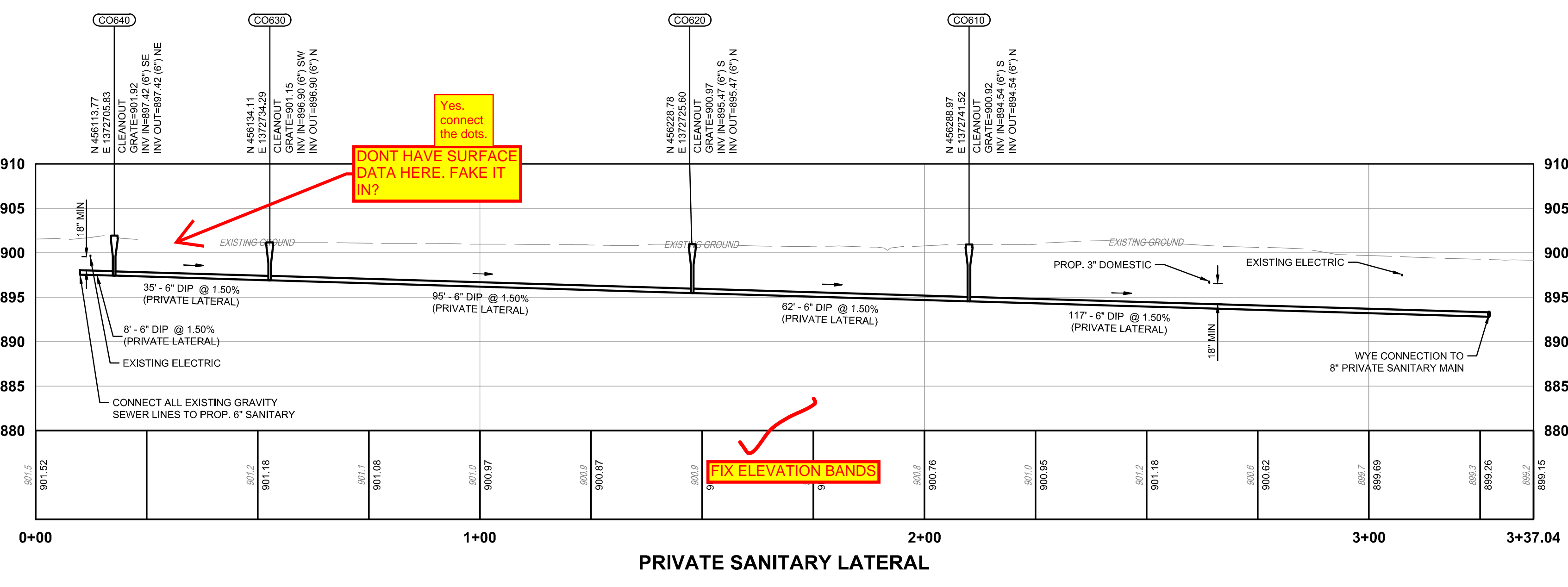


PROPOSED LEGEND

- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATERLINE PIPE
- ALTERNATE WATERLINE PIPE
- FIRE HYDRANT
- ALTERNATE FIRE HYDRANT
- WATER VALVE
- STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
- CONCRETE WALK PER DETAIL 2/C100

CODED NOTES

- 1 8" FIRE LINE. ALL PIPE AND STRUCTURES UPSTREAM FROM FIRE HYDRANT BID AS ALTERNATE
- 2 4" HEATED BACKFLOW PREVENTER ENCLOSURE SEE DETAIL ON SHEET P500
- 3 BACKFEED EXISTING DOMESTIC SERVICE. SEE PLUMBING DRAWINGS FOR PROPOSED INTERNAL PLUMBING AND BACKFLOW PREVENTION DETAILS
- 4 DUAL METER PIT PER DETAIL 1/C101
- 5 REPLACE FENCE AT NEAREST POSTS, MATCH EXISTING
- 6 MSDGC DROP MANHOLE PER DETAIL ON SHEET C101
- 7 REPLACE WALK AT NEAREST JOINT PER DETAIL 2/C100
- 8 4" METER PIT DRAIN PIPE
- 9 TRENCH, CDF BACKFILL, AND PAVEMENT RESTORATION PER HCEO REQUIREMENTS
- 10 CONNECT ALL EXISTING GRAVITY SEWER LINES TO PROPOSED 6" SANITARY SEWER
- 11 CONTRACTOR TO REMOVE AND RECONSTRUCT PORTIONS OF WALL AS NEEDED
- 12 CONTRACTOR TO LOCATE EXISTING ELECTRIC/UTILITY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCY
- 13 6" PRIVATE SANITARY LATERALS TO CONNECT TO 8" PRIVATE SANITARY MAIN VIA WYE CONNECTION.

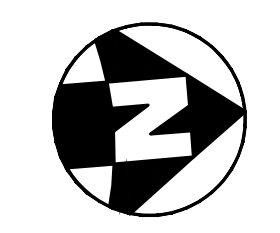


NOTES

1. ALL CLEANOUTS TO BE INSTALLED PER DETAIL 4/C100
3. CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES



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SEAL:

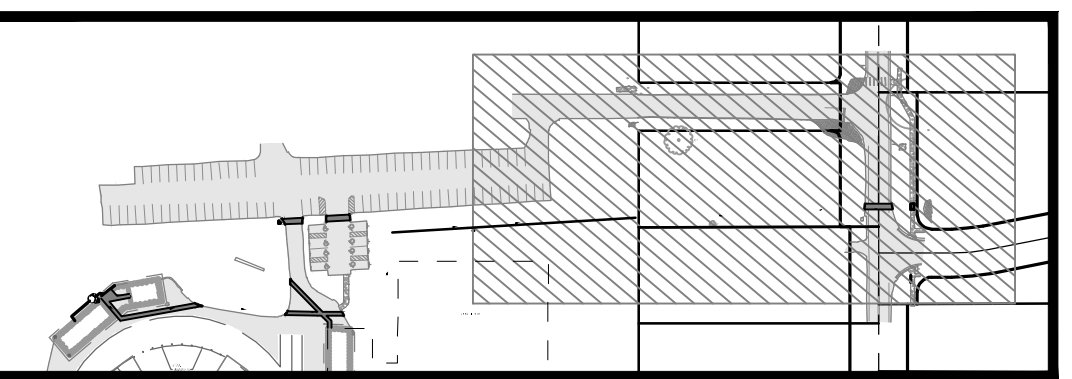
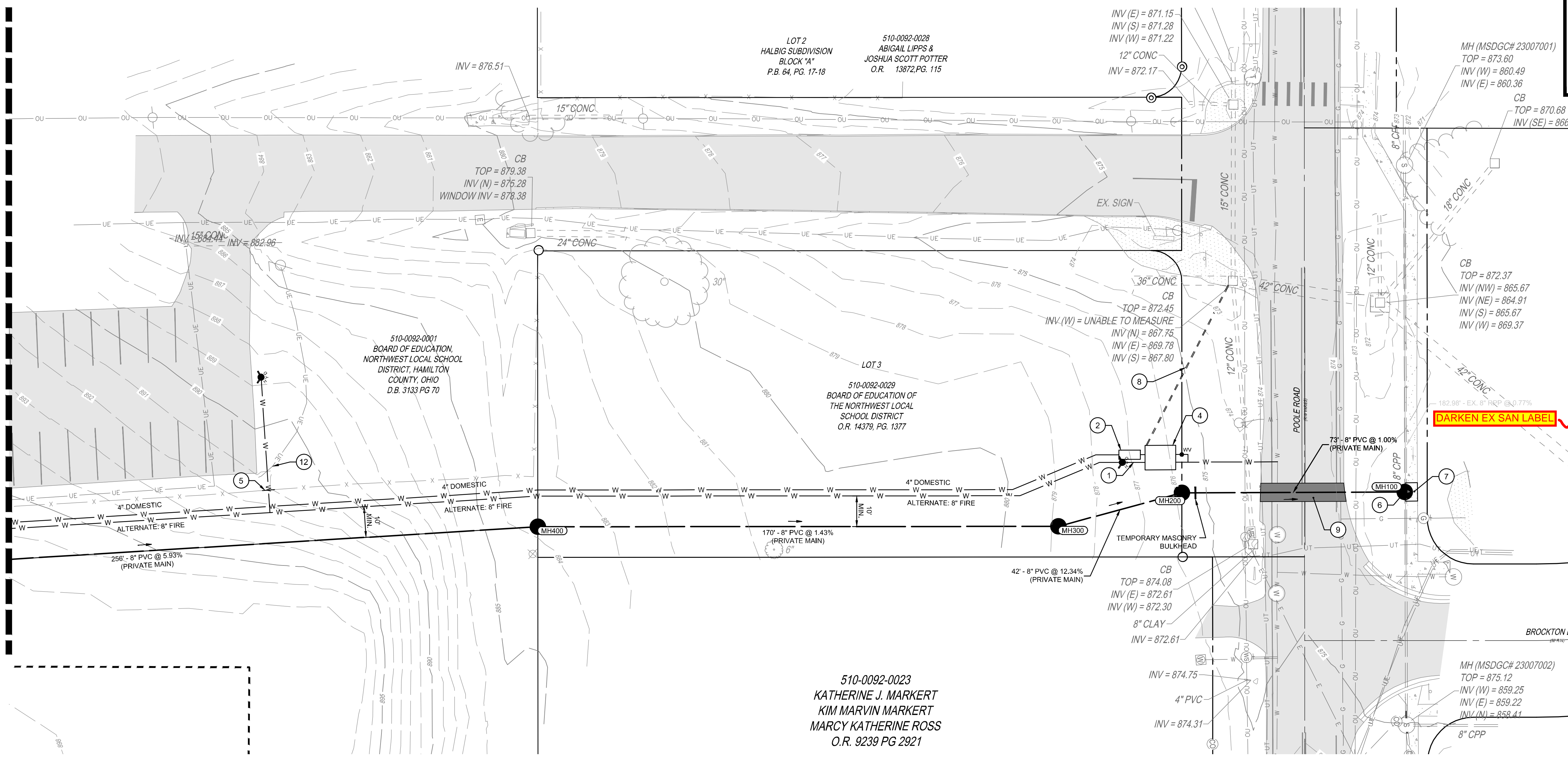
NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

COLERAIN HS STADIUM SEWER & WATER IMPROVEMENTS
8801 CHEVIOT RD
CINCINNATI, OH 45251

PROJECT NO: 980438.018
DATE: 02/05/2024
SCALE:

SHEET NAME:
UTILITY PLAN - SOUTH

SHEET NO:
8 OF 9

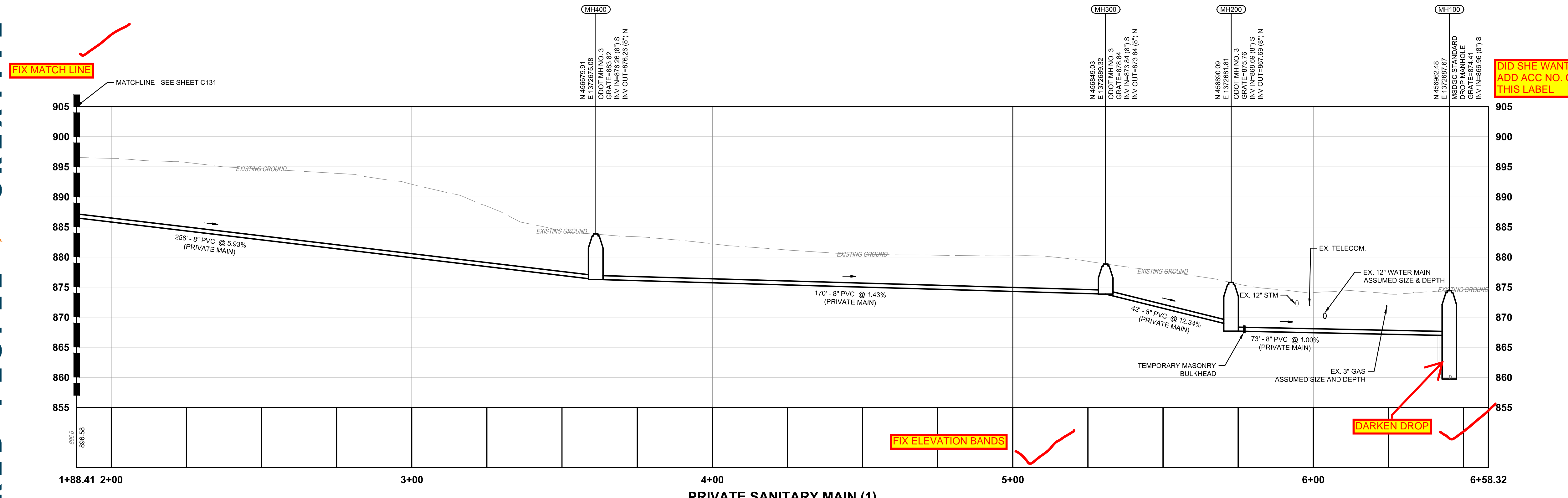


PROPOSED LEGEND

- SAN SANITARY SEWER PIPE
- MANHOLE SANITARY SEWER MANHOLE
- CLEANOUT SANITARY SEWER CLEANOUT
- WAT WATERLINE PIPE
- ALTERNATE: WATERLINE PIPE
- FIRE HYDRANT
- ALTERNATE: FIRE HYDRANT
- WATER VALVE
- STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 1/C100
- CONCRETE WALK PER DETAIL 2/C100

CODED NOTES

- 1 8" FIRE LINE. ALL PIPE AND STRUCTURES UPSTREAM FROM FIRE HYDRANT BID AS ALTERNATE
- 2 4" HEATED BACKFLOW PREVENTER ENCLOSURE SEE DETAIL ON SHEET P500
- 3 BACKFEED EXISTING DOMESTIC SERVICE. SEE PLUMBING DRAWINGS FOR PROPOSED INTERNAL PLUMBING AND BACKFLOW PREVENTION DETAILS
- 4 DUAL METER PIT PER DETAIL 1/C101
- 5 REPLACE FENCE AT NEAREST POSTS, MATCH EXISTING
- 6 MSDGC DROP MANHOLE PER DETAIL ON SHEET C101 **ADD ACC.NO. (S) ? Yes**
- 7 REPLACE WALK AT NEAREST JOINT PER DETAIL 2/C100
- 8 4" METER PIT DRAIN PIPE
- 9 TRENCH, CDF BACKFILL, AND PAVEMENT RESTORATION PER HCEO REQUIREMENTS
- 10 CONNECT ALL EXISTING GRAVITY SEWER LINES TO PROPOSED 6" SANITARY SEWER
- 11 CONTRACTOR TO REMOVE AND RECONSTRUCT PORTIONS OF WALL AS NEEDED
- 12 CONTRACTOR TO LOCATE EXISTING ELECTRIC/UTILITY PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCY
- 13 6" PRIVATE SANITARY LATERALS TO CONNECT TO 8" PRIVATE SANITARY MAIN VIA WYE CONNECTION.



NOTES

1. ALL CLEANOUTS TO BE INSTALLED PER DETAIL 4/C100
3. CONTRACTOR TO FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES



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SEAL:

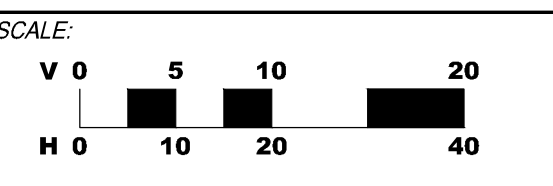
NO.	DATE	DESCRIPTION
1	02/05/24	95% OWNER REVIEW

COLERAIN HS STADIUM SEWER & WATER IMPROVEMENTS

8801 CHEVIOT RD CINCINNATI, OH 45251

PROJECT NO: 980438.018

DATE: 02/05/2024



SHEET NAME:

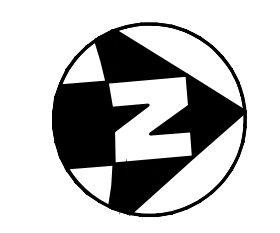
UTILITY PLAN - NORTH

SHEET NO.

9 OF 9



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