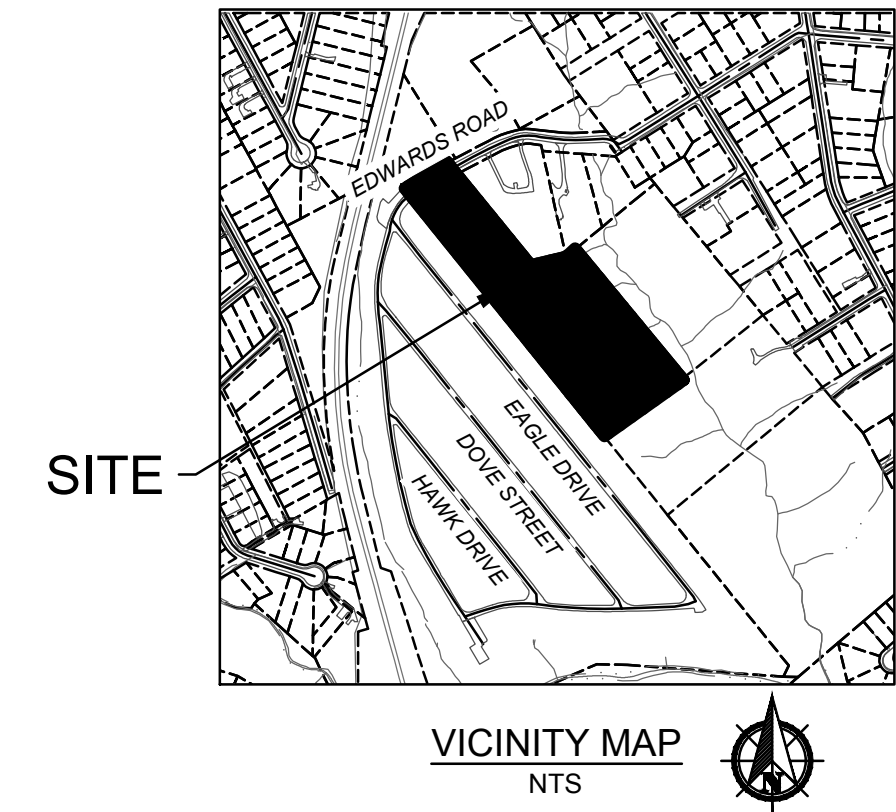


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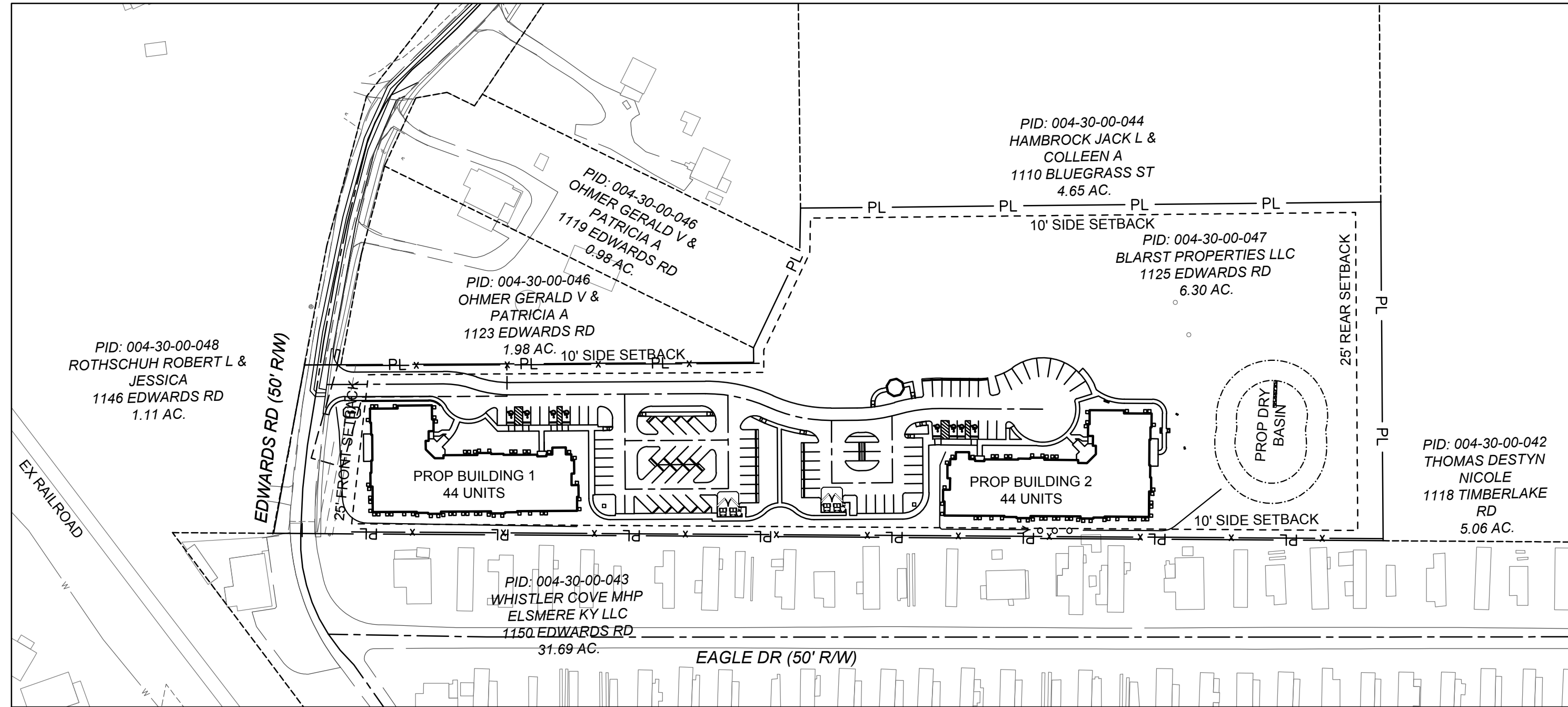
SITE CONSTRUCTION PLAN FOR SANCTUARY ON EDWARDS 1125 EDWARDS ROAD CITY OF ELSMERE, KENTON COUNTY, KENTUCKY



2550 Corporate Exchange Dr., Ste. 300 | Columbus, Ohio 43221
TEL: (614) 610-1226
www.structurepoint.com

SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
TITLE SHEET

SITE DATA	
ZONING:	
PROPERTY OWNER:	BLARST PROPERTIES LLC
PARCEL ID:	004-30-00-047.00
PROPOSED USE:	SENIOR LIVING FACILITY
SITE ACREAGE:	6.30 AC
EXISTING ZONING:	R-CPS (RESIDENTIAL COMPACT SUBDIVISION)
FEMA FLOODPLAIN:	ZONE X PER FEMA FIRM PANEL 21117C0015F DATED 5/16/2013
SITE LAYOUT DATA:	
STANDARD PARKING STALL:	9'X18'
ADA PARKING STALL:	8'X18'
MINIMUM DRIVE AISLE WIDTH:	12'
BUILDING DATA:	
BUILDING 1 AREA:	14,179 SQFT
BUILDING 2 AREA:	14,179 SQFT
BUILDING HEIGHT:	3 STORY
TOTAL UNITS:	88 UNITS
PARKING DATA:	
PROPOSED PARKING:	88 SPACES
PROPOSED ADA PARKING:	8 SPACES
REQUIRED PARKING:	1 SPACE PER UNIT * 88 UNITS = 88 SPACES



INDEX MAP
1" = 100'

BASIS OF BEARING
BEARINGS SHOWN HEREON ARE BASED ON KENTUCKY STATE PLANE COORDINATE SYSTEM (NORTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

HORIZONTAL CONTROL				
COORDINATES ARE BASED ON KENTUCKY STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.00003061 WAS APPLIED ABOUT C.P. 5000 TO OBTAIN GROUND COORDINATES.				
C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
5000	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP LOCATED ON THE SOUTH SIDE OF EDWARDS RD, EAST OF THE DRIVEWAY FOR ADDRESS #1125, 59.9 FEET NORTHEAST OF A FENCE CORNER, 13.1 FEET SOUTH OF THE SIDEWALK, 51.6 FEET SOUTH OF AN 18" TREE LOCATED ON THE NORTH SIDE OF EDWARDS RD	546962.476	1539357.766	865.84
5001	MAG NAIL SET IN SIDEWALK LOCATED ON THE SOUTH SIDE OF EDWARDS RD, 62.7 FEET NORTHEAST OF THE EDGE OF DRIVE FOR ADDRESS #1125, 3.25 FEET NORTH OF THE SOUTH EDGE OF SIDEWALK, 33.7 FEET SOUTH OF AN 18" TREE LOCATED ON THE NORTH SIDE OF EDWARDS RD	546982.504	1539361.747	862.77
5002	MAG SPIKE SET IN PAVEMENT LOCATED ON THE NORTH SIDE OF EDWARDS RD IN FRONT OF ADDRESS #1150, 26.9 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE BUILDING, 4.92 FEET SOUTHWEST OF A WATER VALVE, 11.35 FEET SOUTHWEST OF A FIRE HYDRANT	546889.042	1539153.734	872.12
5003	MAG NAIL SET IN SIDEWALK LOCATED ON THE SOUTH SIDE OF EDWARDS RD, EAST OF THE DRIVE FOR ADDRESS #1123, 3.75 FEET NORTH OF THE SOUTH EDGE OF SIDEWALK, 10.6 FEET NORTHEAST OF A WATER METER, 44.1 FEET EAST OF A FIRE HYDRANT	547065.776	1539561.715	844.67
5004	MAG NAIL SET IN SOUTH SIDE OF EDWARDS RD LOCATED EAST OF ADDRESS # 1109, 9.9 FEET NORTHWEST OF A GASE VALVE, 24.14 FEET WEST OF A POWER/LIGHT POLE, 26.9 FEET SOUTHWEST OF A CURB INLET	547073.157	1539938.403	831.95

VERTICAL CONTROL				
ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS DERIVED FROM GNSS OBSERVATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) AND GEOID 18, AND AN NGS OPUS SOLUTION FOR CONTROL POINT 5000. THE ELEVATIONS FOR ALL OTHER CONTROL POINTS AND BENCHMARKS LISTED HEREON WERE ESTABLISHED UTILIZING A DIFFERENTIAL LEVEL CIRCUIT ORIGINATING FROM CONTROL POINT 5000				
B.M.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
CP 5000	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP LOCATED ON THE SOUTH SIDE OF EDWARDS RD, EAST OF THE DRIVEWAY FOR ADDRESS #1125, 59.9 FEET NORTHEAST OF A FENCE CORNER, 13.1 FEET SOUTH OF THE SIDEWALK, 51.6 FEET SOUTH OF AN 18" TREE LOCATED ON THE NORTH SIDE OF EDWARDS RD	546962.476	1539357.766	865.84
TBM 500	CUT "X" ON THE SOUTH BOLT OF A FIRE HYDRANT LOCATED ON THE NORTH SIDE OF EDWARDS RD, EAST OF THE PARKING LOT FOR VINEYARDS MANAGEMENT GROUP, ADDRESS #1150	N/A	N/A	874.96
TBM 501	CUT "X" ON EAST BOLT OF A FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF EDWARDS RD, +/- 12 FEET WEST OF MAILBOX #1123	N/A	N/A	849.94
TBM 502	MAG SPIKE IN NORTH SIDE OF POWER POLE #106-394E/K19004RE LOCATED ON THE SOUTH SIDE OF EDWARDS RD BETWEEN ADDRESS #1107 & ADDRESS #1109	N/A	N/A	836.05

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/5/2024
DRAWN BY:	HSR
CHECKED BY:	AWO
JOB NUMBER:	2023.01284

C001



REGISTERED ENGINEER
 JOSH RODGERS, E-33392, P.E.

02/02/2024
DATE

PLOT SCALE: 1"=EDIT DATE: 2/2/24 4:25 PM EDITED BY: PTA/TARKOV DRAWING FILE: C:\2023\01284\DRAWING\CIVIL\CONSTRUCTION DOCUMENTS\C001\284.TS.DWG

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL CONSTRUCTION DOCUMENTS AND FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR WORK THAT COULD HAVE BEEN IDENTIFIED BY A SITE VISIT OR CONSTRUCTION DOCUMENT REVIEW.
2. SPECIFICATIONS - PERFORM ALL WORK IN ACCORDANCE WITH CITY AND KENTUCKY TRANSPORTATION CABINET (KYTC) MATERIAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND MARK ALL EXISTING UTILITIES 48 HOURS BEFORE CONSTRUCTION STARTS.
4. PROTECT ALL EXISTING STRUCTURES AND UTILITIES WHICH ARE NOT SCHEDULED FOR REMOVAL.
5. BENCHMARKS - THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, SURVEY MONUMENTS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES.
6. PERMITS & LICENSES - THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND LICENSES NEEDED FOR THE CONSTRUCTION OF THIS PROJECT.
7. EXISTING SEWERS & STRUCTURES - THE CONTRACTOR SHALL REPLACE, TO THE SATISFACTION OF THE ENGINEER, ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES REMOVED OR DAMAGED DURING CONSTRUCTION.
8. SAW-CUT - ALL EXISTING PAVEMENTS, WALKWAYS, CURBS, ETC. SHALL BE SAW-CUT BEFORE REMOVAL.
9. NON-RUBBER TIRED VEHICLES - NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON EXISTING PAVEMENT TO REMAIN.
10. CLEAN-UP - IT IS THE INTENT OF THE OWNER TO KEEP INCONVENIENCE TO THE SURROUNDING PROPERTIES TO AN ABSOLUTE MINIMUM.
11. ADDITIONAL COMPENSATION - THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE PROJECT AS SHOWN AND DESCRIBED IN THE PLANS AND SPECIFICATIONS.
12. SANITARY FACILITIES - THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.
13. DOUG MALONE (SD1) SHALL BE CONTACTED AT 859-578-6749 AT LEAST 72 HOURS PRIOR TO INSTALLATION OF THE PUBLIC SANITARY SEWER.
14. STORAGE OF EQUIPMENT AND MATERIALS - ALL MATERIALS, INCLUDING PIPE, SHALL BE STORED IN AREAS TO MINIMIZE INCONVENIENCE AND LOSS OF USE TO UNIVERSITY PROPERTY.
15. CONSTRUCTION PRACTICES - BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS.
16. TESTING - REFER TO PROJECT MANUAL FOR TESTING AND INSPECTION REQUIREMENTS.
17. UTILITY PROTECTION - THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE OBTAINED FROM A TOPOGRAPHIC SURVEY.

NECESSARY AND AS APPROVED BY THE OWNER. ITEMS SHALL BE EXPOSED SUFFICIENTLY IN ADVANCE TO MAINTAIN THE PROJECT SCHEDULE.

THE CONTRACTOR SHALL CALL, TOLL FREE, THE KENTUCKY UTILITIES PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

MECHANICAL DIGGING EQUIPMENT SHALL NOT BE USED FOR EXPOSING ANY UNDERGROUND UTILITY. ONLY HAND TOOLS MAY BE USED TO UNCOVER THE UTILITY AND THE UTILITY COMPANY SHALL BE NOTIFIED AND HAVE A REPRESENTATIVE PRESENT WHEN THE UTILITY IS EXPOSED.

LOCATE EXISTING UNDERGROUND UTILITIES IN THE AREAS OF THE WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTING DURING EXCAVATION OPERATIONS. SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS.

CONTRACTOR SHALL SUPPORT ALL EXISTING UTILITIES TRAVERSING THROUGH THE EXCAVATION. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED OUTSIDE OF THE PROJECT AREA, EXCEPT WHEN PERMITTED IN WRITING BY THE AFFECTED PARTY AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

COOPERATE WITH THE OWNER AND THE PUBLIC UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER.

18. CONTRACTOR SHALL INSTALL A CONSTRUCTION FENCE, AS NECESSARY, TO KEEP ALL PEDESTRIANS SAFELY AWAY FROM WORK. FENCE SHALL BE 6" HIGH CHAIN LINK FENCE WITH GROUND MOUNTED POSTS OR TEMPORARY POSTS SECURELY ANCHORED.

19. CONTRACTOR LAYDOWN AREAS - CONTRACTOR STAGING, LAYDOWN, AND TRAILER AREAS WILL BE PROVIDED AT THE PROJECT SITE. COORDINATE EXACT LOCATION WITH THE OWNER. PROTECTION OF LAYDOWN AREAS AND STAGING AREAS ARE AS DEEMED NECESSARY BY THE CONTRACTOR. PROVIDE ORANGE CONSTRUCTION FENCE AROUND ALL LAYDOWN AREAS.

20. ALL EXCAVATION, CONSTRUCTION, AND BACKFILL TO BE CONSTRUCTED UNDER THIS CONTRACT SHALL BE CONSTRUCTED UNDER DRY CONDITIONS. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATIONS IN A DE-WATERED, WORKABLE CONDITION, AND PROPER DE-WATERING MEASURES SHALL BE TAKEN AS DICTATED BY FIELD CONDITIONS.

21. HAZARDOUS MATERIALS - THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER AND THE OWNER'S REPRESENTATIVE, ANY MATERIAL ENCOUNTERED DURING EXECUTION OF THE WORK THAT THE CONTRACTOR SUSPECTS IS HAZARDOUS.

22. REPLACEMENT OF DRAIN TILE AND STORM SEWER - 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 THE EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUB-DRAIN, STORM SEWER SYSTEM, OR PROVIDED WITH AN OUTLET INTO THE ROADWAY DITCH AS APPLICABLE.

23. SUBGRADE - REFER TO PROJECT GEOTECHNICAL REPORT REGARDING SUBGRADE RECOMMENDATIONS FOR THE PROJECT SITE.

24. OPEN TRENCH EXCAVATION - SLOUGHING AND CAVING OF EXCAVATIONS SHOULD BE ANTICIPATED WHERE SATURATED WEAK SOILS ARE ENCOUNTERED OR WHERE GRANULAR SEAMS AND LAYERS ARE PRESENT. ALL EXCAVATIONS MUST BE PERFORMED WITHOUT ENDANGERING THE CONSTRUCTION WORKERS.

ANY EXCAVATION INSTALLED USING AN OPEN TRENCH CONSTRUCTION METHOD COULD POTENTIALLY CAUSE DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, OR PAVEMENT CURRENTLY LOCATED IN THE VICINITY OF THE PROPOSED UTILITY ALIGNMENT AND POSITIONED AT HIGHER ELEVATIONS THAN THE PLANNED EXCAVATION DEPTH.

WHERE BRACED EXCAVATIONS ARE REQUIRED, TRENCH EXCAVATIONS SHALL BE DIRECTLY BRACED AT THE TIME OF THE EXCAVATION. THE BRACING MUST BE DESIGNED AS A RIGID SYSTEM WITHOUT DEFLECTION ALONG ITS ENTIRETY.

22. TRENCH BACKFILL - COMPACTED GRANULAR MATERIAL IS REQUIRED IN ALL TRENCHES UNDER PAVEMENT AREAS (DRIVEWAYS, STREETS, SIDEWALKS, ETC.) OR WHERE THE FRONT FACE OF TRENCHES PARALLELING THE PAVEMENT, ARE WITHIN 36" OF THE FACE OF CURB OR EDGE OF PAVEMENT.

23. PLAN CHANGES - GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE ENGINEER.

DEMOLITION NOTES:

- 1. CONFIRM EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
2. ALL CLEARING AND GRUBBING, AND RELATED ACTIVITIES SHALL CONFORM TO KYTC ITEM 202. DISPOSE OF TREES OFF SITE.
3. ALL TREES, SAPLINGS, CROPS, GRASS, OR MONUMENTS LOCATED WITHIN THE WORK AREA WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS ARE TO BE PRESERVED, UNLESS NOTED TO BE REMOVED OR UNLESS APPROVAL TO REMOVE IS GIVEN IN WRITING BY THE ENGINEER.
4. REMOVE ALL ON-GRADE SITE FEATURES WITHIN THE AREA OF WORK INCLUDING: SIDEWALKS, CURBS, CONCRETE FOUNDATIONS, AND CONCRETE AND ASPHALT PAVEMENT.

- 5. SAW-CUT, FULL DEPTH, EXISTING ASPHALT PAVEMENT AND CONCRETE CURB WHERE NEW WORK ABUTS EXISTING CONSTRUCTION.
6. CONTRACTOR SHALL USE CAUTION TO PROTECT EXISTING SITE FEATURES TO REMAIN. REPLACE ANY DAMAGE AT NO COST TO THE OWNER.
7. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS OFF-SITE IN ACCORDANCE WITH LOCAL CODES.
8. USE ALL MEANS NECESSARY TO CONTROL DUST ON-SITE AND PREVENT TRACKING SOIL OFF-SITE.
9. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXISTING BUILDING AND/OR STRUCTURES DEMOLITION AND PROTECTION.

EARTHWORK & GRADING NOTES:

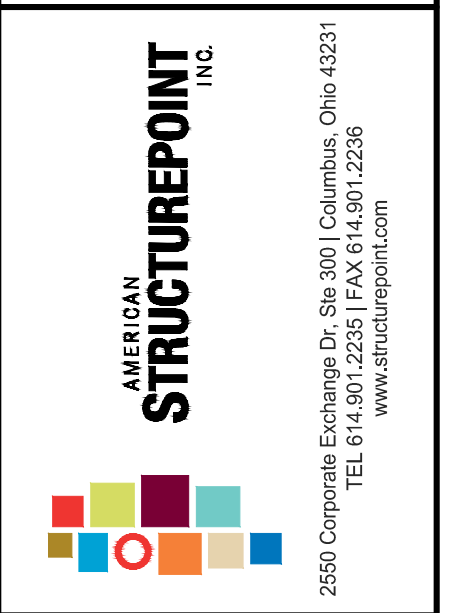
- 1. NO CONSTRUCTION WORK WILL BE PERMITTED WITHOUT APPROVED PLANS AND INSPECTION.
2. ALL PAVEMENT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE.
4. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION.
5. SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION.
6. USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF-SITE.
7. REMOVE SEDIMENT FROM DETENTION AREAS, OUTLET STRUCTURES, AND ALL UNDERDRAINS ONCE FINAL SEED HAS BEEN ESTABLISHED.
8. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL THROUGHOUT THE SITE PRIOR TO EXCAVATION.
9. EXCAVATION AND EMBANKMENT SHALL COMPLY WITH KYTC ITEM 206 AND LOCAL AUTHORITY REQUIREMENTS.
10. THE CONTRACTOR'S BID SHALL BE COMPREHENSIVE AND INCLUDE ALL LABOR AND EQUIPMENT TO COMPLETE ALL EXCAVATION, FILL AND GRADING IN ACCORDANCE WITH THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
11. EXCAVATION AND EMBANKMENT QUANTITIES DO NOT INCLUDE ANY PROVISION FOR UNDERCUTTING, FOOTINGS, OR UNSUITABLE MATERIAL.
12. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER.
13. THE INTENT IS TO STRIP AND SALVAGE TOPSOIL FOR POTENTIAL RE-SPREADING ON THE SITE, IF APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS.
14. AFTER THE TOPSOIL IS REMOVED, PROOFROLL THE PAVEMENT AND BUILDING AREA SUBGRADES TO BE FILLED.
15. TOPSOIL MIX AND DEPTHS SHALL BE PER LANDSCAPE DRAWINGS.
16. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS AND GEOTECHNICAL REPORT.
17. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 805 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 601.
18. ALL WET OR OTHERWISE UNSUITABLE SOILS MUST BE STABILIZED PRIOR TO PAVEMENT CONSTRUCTION.
19. EXPOSE UTILITIES PRIOR TO BEGINNING WORK ON THAT UTILITY TO DETERMINE EFFECTS ON THE PROPOSED ALIGNMENT AND PROFILE.
20. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
21. ALL CONCRETE ADJACENT TO BUILDING SHALL BE SLOPED AWAY FROM BUILDING AT 2.0% UNLESS OTHERWISE NOTED.
22. PROVIDE POSITIVE DRAINAGE FROM BUILDINGS AT ALL TIMES.
23. HANDICAP PARKING AREAS SHALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 2%.
24. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTION TO THE SANITARY SEWER ARE PROHIBITED.
25. ALL INLETS SHALL BE CHANNELIZED.
26. PROVIDE 10' UNDERDRAINS IN FOUR DIRECTIONS AT ALL CATCH BASINS IN PAVEMENT AREAS.
27. OUTLET CURB UNDERDRAINS TO ADJACENT EXISTING UNDERDRAINS OR STORM SEWER SYSTEM.

- 28. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS & COVERS.
29. ALL EXISTING VALVES, MANHOLES, AND OTHER APPURTENANCES TO REMAIN LOCATED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO FINISHED GRADE.
30. MAXIMUM FINISH SLOPES SHALL BE 3:1, UNLESS OTHERWISE NOTED.
31. ALL DOWNSPOUT LEADER STORM SEWER CONNECTION SHALL BE 6" WITH A MINIMUM SLOPE OF 1.20% OR AS OTHERWISE NOTED.
32. NO LANDSCAPED SLOPES ARE TO EXCEED 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) UNLESS NOTED OTHERWISE.

EARTHWORK NOTES (STANDARD):

- EXCAVATE AND REMOVE UNSUITABLE MATERIAL AS DEFINED IN THE GEOTECHNICAL ENGINEERING REPORT, OF WHICH SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS.
A. STRIP AND STOCKPILE EXISTING TOPSOIL WITHIN GRADING/SEEDING LIMITS.
B. SUBSEQUENT TO TOPSOIL REMOVAL, BENEATH PAVEMENT AREAS AND PROPOSED BUILDING PAD, PROOF-ROLL EXPOSED SUBGRADE WITH A FULLY-LOADED, TANDEM-AXLE DUMP TRUCK.
C. ESTABLISHING THE GRADES SHOWN ON THIS PLAN WILL REQUIRE IMPORT OF MATERIAL. CONTRACTOR SHALL CONFIRM QUANTITIES.

PLOT SCALE: 1"=10' DATE: 2/22/24, 4:25 PM EDITED BY: P.TA.TARKOV DRAWING FILE: C:\2023\0128\DWG\DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\C002\0128.dwg TSD:DWG



SITE CONSTRUCTION PLAN FOR SANCTUARY AT EDWARDS CITY OF ELSMERE, KENTON COUNTY, KENTUCKY GENERAL NOTES

Table with 5 columns: REVISIONS, DATE, SHEET NO., DESCRIPTION. It is currently empty.

APPROVAL PENDING NOT FOR CONSTRUCTION. IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

Table with 2 columns: Field Name, Value. Fields include DATE (2/5/2024), DRAWN BY (HSR), CHECKED BY (AWO), and JOB NUMBER (2023.01284).

C002

PLOT SCALE: 1"=10' DATE: 2/22/24 - 4:25 PM EDITED BY: PTATARKOV DRAWING FILE: C:\2023\0128\4\4\ DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\CDS\2023\0128\4 TS.DWG

UTILITY

- OBTAIN ALL PERMITS AND PAY ALL FEES NECESSARY TO COMPLETE THE WORK AS SHOWN.
 - ALL EXCAVATIONS, CONSTRUCTION, AND BACKFILL OF PIPES SHALL BE CONSTRUCTED UNDER DRY CONDITIONS. THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATIONS IN A DE-WATERED, WORKABLE CONDITION, AND SHALL BE RESPONSIBLE FOR INSTALLING, OPERATING, AND MAINTAINING SUCH DE-WATERING SYSTEMS AS ARE REQUIRED.
 - SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
 - THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO KENTUCKY UTILITIES PROTECTION SERVICE AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
 - THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
 - WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING UNDERGROUND SEWER OR UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED ON THE PLANS AS "EXPOSE."
- IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
- IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.
- COORDINATE SERVICE CONNECTION LOCATIONS AT THE BUILDING WITH THE PLUMBING CONTRACTOR PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UNCOORDINATED WORK.
 - CONTRACTORS SHALL COORDINATE ALL WORK WITH GAS, ELECTRIC, TELEVISION, AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
 - ALL AREAS DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT AT LIMITS OF REMOVAL. PAVEMENT AND CURB REPLACEMENT SHALL CONFORM TO LOCAL AUTHORITY CONSTRUCTION STANDARDS.
 - ALL SIGNS, POLES, BENCHES, FLOWER BEDS, BRICK PAVERS AND ANY OTHER SITE FEATURE REQUIRING REMOVAL DUE TO CONSTRUCTION ACTIVITIES SHALL BE STORED ON-SITE AND RE-INSTALLED BY THE CONTRACTOR UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
 - ALL UTILITIES SHALL BE INSPECTED AND APPROVED PRIOR TO BACKFILLING.
 - AT ALL POINTS OF CROSSING WATER MAINS OR OTHER SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPES.
 - CONTRACTOR SHALL COORDINATE CONNECTION TO EXISTING SANITARY SEWER WITH THE LOCAL AUTHORITY.
 - CONTRACTOR SHALL COORDINATE CONNECTION TO EXISTING WATER MAIN WITH THE LOCAL AUTHORITY.
 - MAINTAIN MINIMUM 48" COVER OVER ALL WATER LINES
 - MAINTAIN MINIMUM 30" COVER OVER ALL GAS LINES
 - MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
 - PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE, UNLESS OTHERWISE NOTED.
 - REFER TO THE LOCAL AUTHORITY STANDARD DRAWINGS FOR TYPICAL FIRE HYDRANT INSTALLATION DETAILS.
 - CONNECTION TO EXISTING WATER MAINS SHALL NOT BE PERFORMED UNTIL THE NEW LINES HAVE BEEN SANITIZED AND ALL TESTS HAVE BEEN COMPLETED AS SPECIFIED BY THE LOCAL AUTHORITY.
 - ANY REQUIRED WATERLINE SHUT-DOWNS SHALL BE COORDINATED WITH THE LOCAL AUTHORITY.
 - PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE, UNLESS OTHERWISE NOTED.
 - GAS TAP, SERVICE LINE, CURB BOX, AND METER SETTING BY UTILITY PROVIDER. SITE CONTRACTOR TO PROVIDE AND INSTALL GAS SERVICE LINE FROM METER SETTING TO A POINT 5'-0" OUTSIDE OF BUILDING. PLUMBING CONTRACTOR TO INSTALL SERVICE LINE FROM 5'-0" OUTSIDE OF BUILDING FACE TO GAS SERVICE FOR BUILDING. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.

SANITARY SEWERS

- CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING A PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED KENTUCKY DEP APPROVALS AND PAYING REVIEW FEES.
- SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF ELSMERE, KENTUCKY SD1, KENTUCKY DEP, KENTUCKY DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH KENTUCKY SD1 REQUIREMENTS. PIPE JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3212.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.
- ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND

LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 805 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 601, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER.
- ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 810 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
- ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
- FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED.
- ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 805 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
- SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
- WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
- THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
- THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
 - RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
 - KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
 - LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
 - OR EQUAL AS APPROVED BY THE CITY ENGINEER.
 - RUBBER GASKET COMPRESSION.
 - PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
 - DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
 - LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
 - OR EQUAL AS APPROVED BY THE CITY ENGINEER.

STORM SEWER

- ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 204 AND 213 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY KENTUCKY SD1.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 805 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 601, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
- HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."
- STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY

GRATES, AS APPROVED BY THE CITY ENGINEER.

RETENTION/DETENTION BASINS

- ANTI-SEEP COLLARS ARE REQUIRED FOR ALL RETENTION/DETENTION POND OUTLETS. A MINIMUM OF TWO COLLARS ARE REQUIRED. COLLARS MUST BE CONSTRUCTED (EXCAVATED) A MINIMUM OF 3.0' INTO UNDISTURBED SOIL ON ALL THREE SIDES. CLASS C CONCRETE SHALL BE USED FOR REPLACEMENT OF THE EXCAVATED MATERIAL. THE COLLARS MUST BE A MINIMUM OF 8 INCHES THICK.
- A CLAY CORE OF SUFFICIENT THICKNESS IS REQUIRED FOR ALL DETENTION AND RETENTION PONDS IN CUT AREAS. THE COUNTY ENGINEER SHALL FIELD APPROVE THE CORE THICKNESS OR THE CONDITION OF THE EXISTING SOILS AS A SUBSTITUTE FOR A CLAY CORE (E.G., EXISTING CLAY MATERIAL).
- TREES AND LANDSCAPING SHALL NOT BE PERMITTED ON EMBANKMENT SURFACES.



SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
GENERAL NOTES

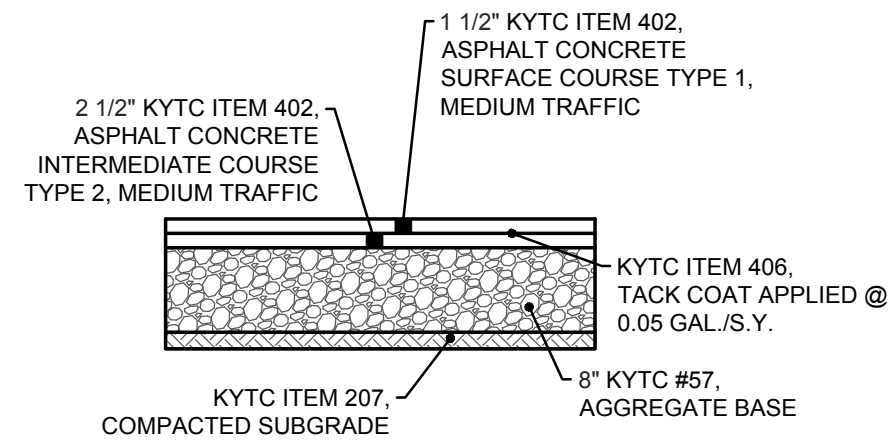
REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OR REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/5/2024
DRAWN BY:	HSR
CHECKED BY:	AWO
JOB NUMBER:	2023.01284

C003

PLOT SCALE: 1:1 EDIT DATE: 2/22/24 4:25 PM EDITED BY: PTATARKOV DRAWING FILE: O:\2023\01284\01284.D\DRAWING\CIVIL\CONSTRUCTION DOCUMENTS\C004\2023.01284.TS.DWG

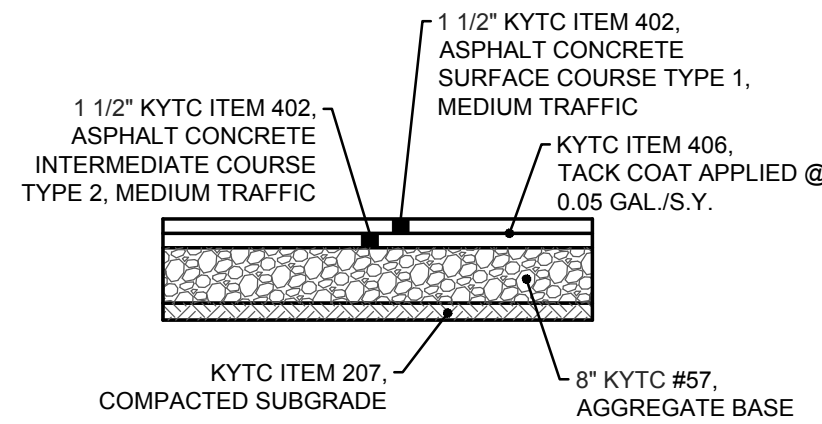


NOTE:
PAVEMENT DESIGN IS BASED ON THE PAVEMENT RECOMMENDATIONS IN THE GEOTECHNICAL REPORT DATED 7/27/2023 AS PREPARED BY CORNERSTONE GEOTECH SERVICES. AMERICAN STRUCTUREPOINT IS NOT RESPONSIBLE FOR PAVEMENT DESIGN.

NOTES:

1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING KYTC 400 REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY KYTC APPROVED FORMULA OR CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA.

A HEAVY DUTY ASPHALT PAVEMENT
NOT TO SCALE

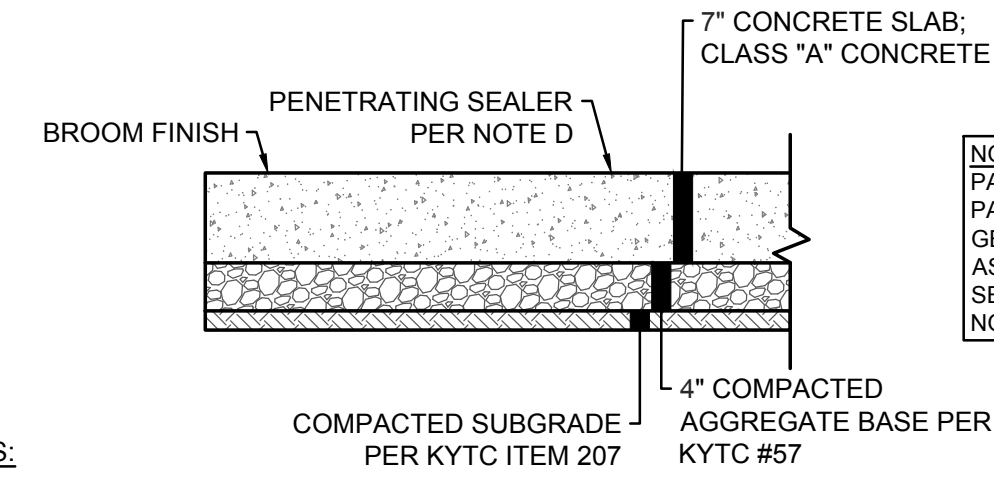


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2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY KYTC APPROVED FORMULA OR CONTRACT AN INDEPENDENT TESTING AGENCY TO PROVIDE TESTING AND WRITTEN APPROVAL OF THE FORMULA.

B LIGHT DUTY ASPHALT PAVEMENT
NOT TO SCALE



NOTE:
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NOTES:

1. PROVIDE PROPORTIONING REQUIREMENTS FOR PORTLAND CEMENT CONCRETE MIX DESIGNS, MIXING, AND CONTROLS PER KYTC ITEM 601.
2. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309, TYPE 1, CLASS A OR B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO THE APPLICATION OF PENETRATIONS SEALER.
3. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
 - A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS
 - B. PROSOCO - SALTGUARD WB
 - C. PROTECTOSIL - CHEM-TRETE 40 VOC
 - D. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
 - E. BASF - MASTER PROTECT H 400
 - F. TEX-COTE - RAINSTOPPER RS1500

C HEAVY DUTY CONCRETE PAVEMENT
NOT TO SCALE



2550 Corporate Exchange Ct., Ste. 300 | Columbus, Ohio 43221
TEL: 614.420.1226
WWW.STRUCTUREPOINT.COM

SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
SITE DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C004

ACCESS & UTILITY EASEMENT FOR THE BENEFIT OF BLARST PER D.B. C4830, P. 292 EXHIBIT C, PARCEL NO. 3

ACCESS & UTILITY EASEMENT FOR THE BENEFIT OF BLARST PER D.B. C4830, P. 292 EXHIBIT C, PARCEL NO. 2

PID: 004-30-00-046
OHMER GERALD V & PATRICIA A
1119 EDWARDS RD
0.98 AC.

PID: 004-30-00-044
HAMBROCK JACK L & COLLEEN A
1110 BLUEGRASS ST
4.65 AC.

PID: 004-30-00-047
BLARST PROPERTIES LLC
1125 EDWARDS RD
6.30 AC.

PID: 004-30-00-046
OHMER GERALD V & PATRICIA A
1123 EDWARDS RD
1.98 AC.

(TO BE VACATED)
15' ELECTRIC EASEMENT
PER D.B. 576, P. 546

(TO BE VACATED)
15' ELECTRIC EASEMENT
PER D.B. 571, P. 595

PID: 004-30-00-048
ROTHSCHUH ROBERT L & JESSICA
1146 EDWARDS RD
1.17 AC.

PID: 004-30-00-042
THOMAS DESTYNE NICOLE
1118 TIMBERLAKE RD
5.06 AC.

PID: 004-30-00-043
WHISTLER COVE MHP
ELSMERE KY LLC
1150 EDWARDS RD
31.69 AC.

EX. SAN MH
TR: 860.47
INV(NW): 854.94
INV(SE): 854.85

EX. SAN MH
TR: 855.51
INV(NW): 859.99
INV(SE): 859.92

EX. SAN MH
TR: 868.84
INV(NW): 863.36
INV(SE): 863.35

(TBA)
EX CLEAN OUT
TR: 873.46
INV(W): 871.46
INV(E): 871.46

ACCESS & UTILITY EASEMENT FOR THE BENEFIT OF ALLENDALE PER D.B. C4830, P. 292 EXHIBIT D

CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER FOR TREATMENT OF POTENTIAL SINKHOLES



SITE CONSTRUCTION PLAN FOR SANCTUARY AT EDWARDS CITY OF ELSMERE, KENTON COUNTY, KENTUCKY EXISTING CONDITIONS & DEMOLITION PLAN

- CODED NOTES**
- 1 POLE TO BE REMOVED, CONTRACTOR TO COORDINATE WITH UTILITY OWNER FOR REMOVAL
 - 2 CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR REMOVAL/RELOCATION
 - 3 BOLLARD TO BE REMOVED
 - 4 FENCE TO BE REMOVED

- EXISTING LEGEND**
- PL — PROPERTY LINE
 - R/W — RIGHT-OF-WAY
 - PAVEMENT/ SIDEWALK
 - PAVEMENT STRIPING
 - CURB
 - ROAD CENTERLINE
 - TREE DRIP LINE
 - / — FENCE
 - — STREAM
 - stm — STORM SEWER
 - san — SANITARY SEWER
 - w — WATER LINE
 - g — GAS LINE
 - fo — FIBER OPTIC LINE
 - e — ELECTRIC
 - ohe — OVERHEAD ELECTRIC
 - t — TELECOMMUNICATION
 - ctv — CABLE TELEVISION

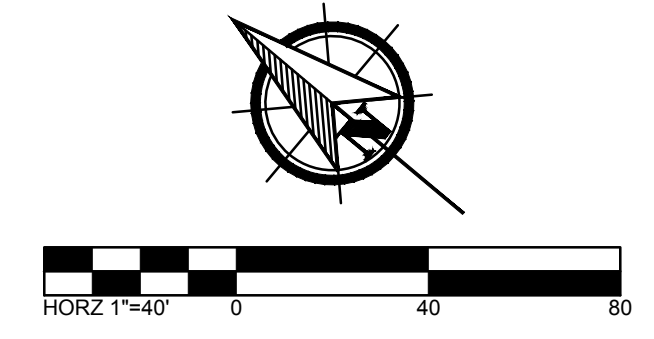
- DEMOLITION LEGEND**
- TBR TO BE REMOVED
 - TBRO TO BE REMOVED BY OTHERS
 - TBRR TO BE REMOVED AND REPLACED
 - TBA TO BE ABANDONED
 - DND DO NOT DISTURB
 - ASPHALT PAVEMENT TO BE REMOVED
 - CONCRETE PAVEMENT TO BE REMOVED
 - BUILDING TO BE REMOVED
 - TREES/TREELINE TO BE REMOVED
 - X — X — X — ITEM TO BE REMOVED
 - TREE TO BE REMOVED

REVISIONS	DATE	SHEET NO.	DESCRIPTION

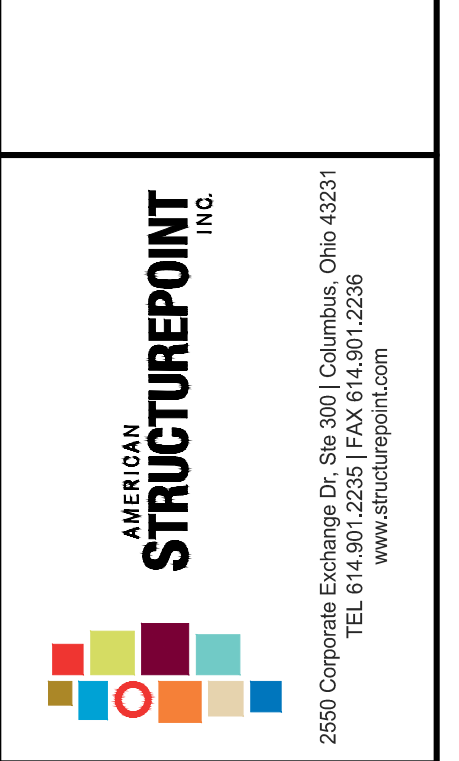
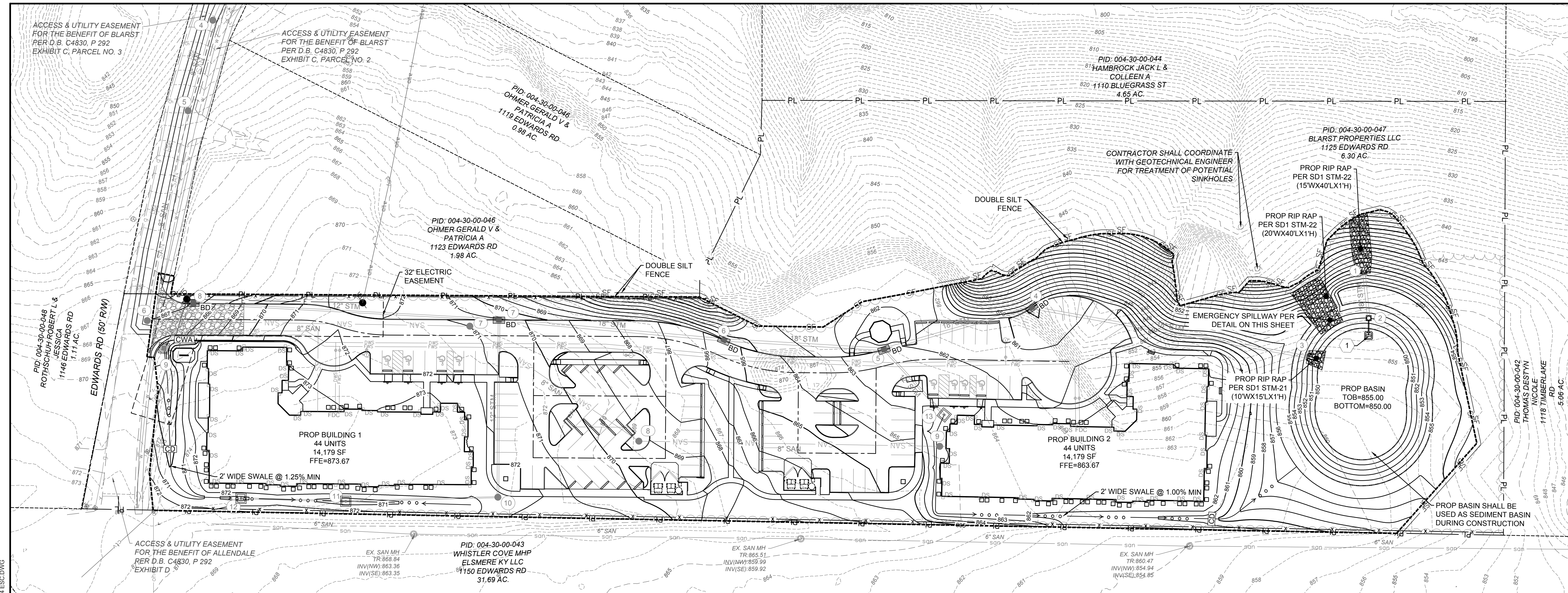
APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

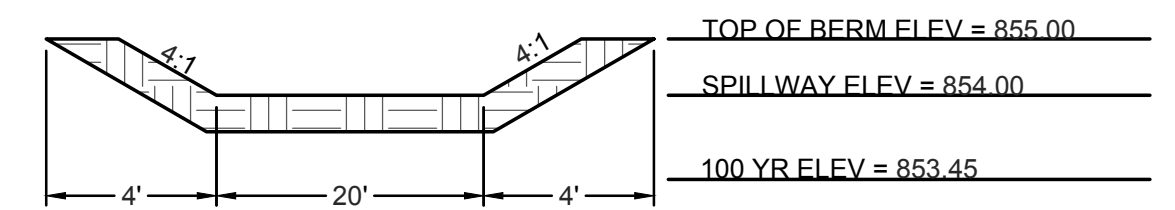
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SITE CONSTRUCTION PLAN FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
EROSION CONTROL PLAN



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NOT TO SCALE

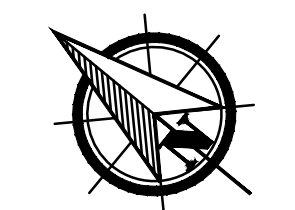
- CODED NOTES**
- 1 TEMPORARY RISER PIPE AND SKIMMER PER DETAIL I ON SHEET C203

- EROSION CONTROL LEGEND**
- XXX--- PROPOSED MAJOR CONTOUR
 - xxx--- PROPOSED MINOR CONTOUR
 - - -XXX - - - EXISTING MAJOR CONTOUR
 - - -xxx - - - EXISTING MINOR CONTOUR
 - LIMITS OF DISTURBANCE
 - SF— SILT FENCE
 - FS— FILTER SOCK
 - o— ORANGE CONSTRUCTION FENCE
 - >— SWALE
 - <— TEMPORARY DIVERSION CHANNEL
 - [CWA] CONCRETE WASHOUT AREA
 - [CD] CHECK DAM
 - [DB] DANDY BAG INLET PROTECTION
 - [BD] BEAVER DAM INLET PROTECTION
 - [] SILT FENCE INLET PROTECTION
 - [] STABILIZED CONSTRUCTION ENTRANCE
 - [] ROCK CHANNEL PROTECTION

NOTES:

SD1 IS TO BE CONTACTED AT 859-578-6892 AT LEAST 72 HOURS PRIOR TO ALL LAND DISTURBING ACTIVITIES

ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MAY BE REQUIRED DURING THE PERIOD OF THE LAND DISTURBING ACTIVITY TO MEET THE REQUIREMENTS IN THE SD1 STORM WATER RULES AND REGULATIONS



REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION

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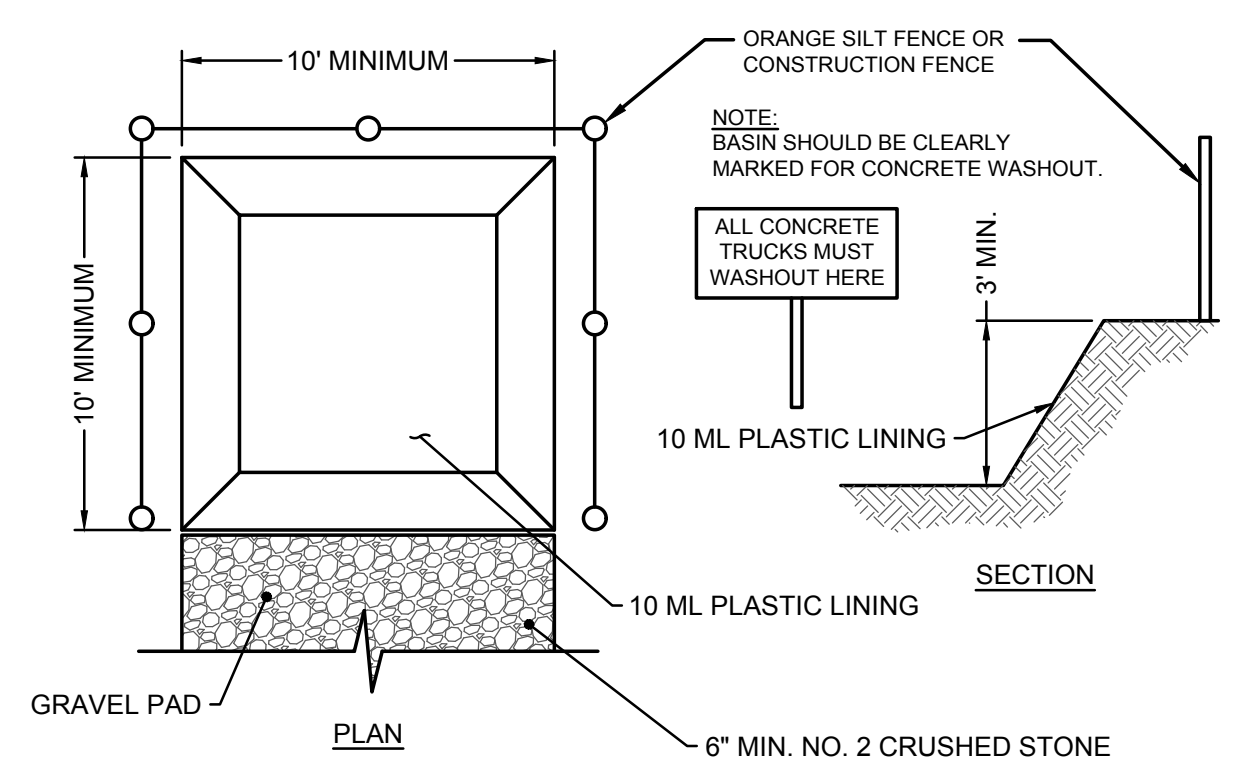
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REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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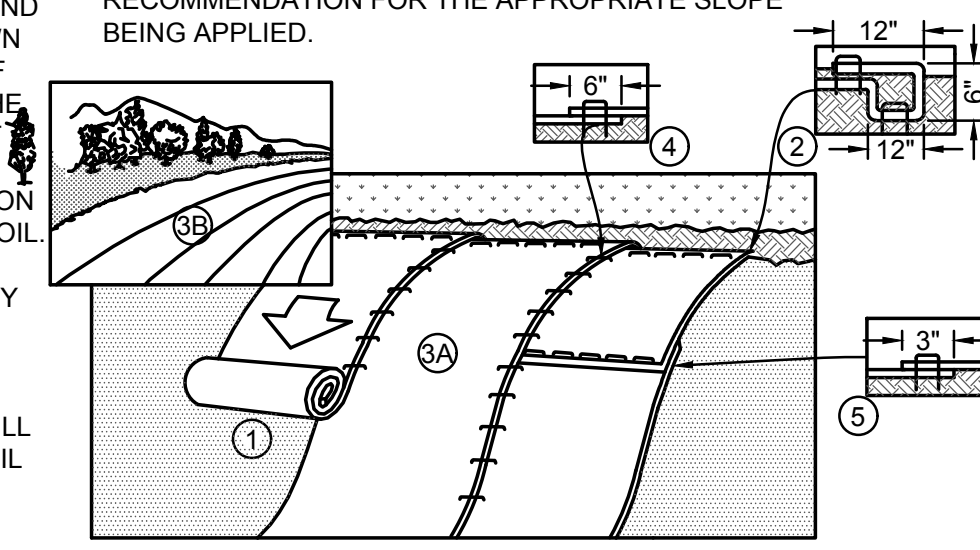
DATE:	2/5/2024
DRAWN BY:	HSR
CHECKED BY:	AWO
JOB NUMBER:	2023.01284



- NOTE:**
- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
 - IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
 - CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
 - PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
 - CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
 - CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
 - PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
 - CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

C CONCRETE WASHOUT AREA
NOT TO SCALE

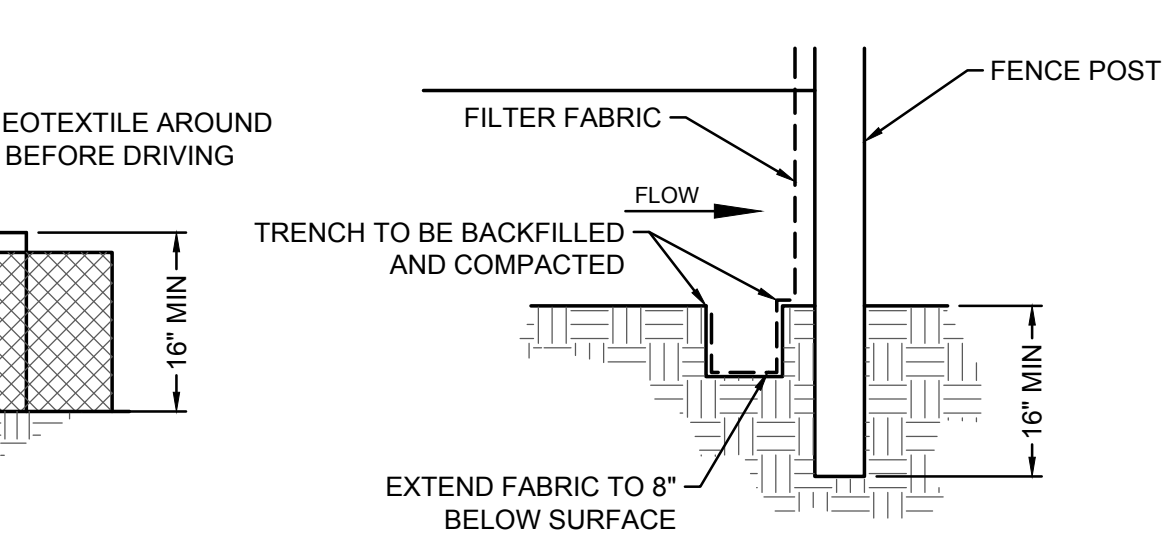
- NOTES:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURER'S RECOMMENDATION.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
 - PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.



EROSION CONTROL BLANKET
THE FOLLOWING BLANKET MANUFACTURER AND NUMBER OR APPROVED EQUAL MAY BE USED FOR 4:1 TO 3:1 SLOPES.

MANUFACTURER	NUMBER
NORTH AMERICAN GREEN	S75
NORTH AMERICAN GREEN	SC250
NORTH AMERICAN GREEN	C125 BN
OR APPROVED EQUAL	

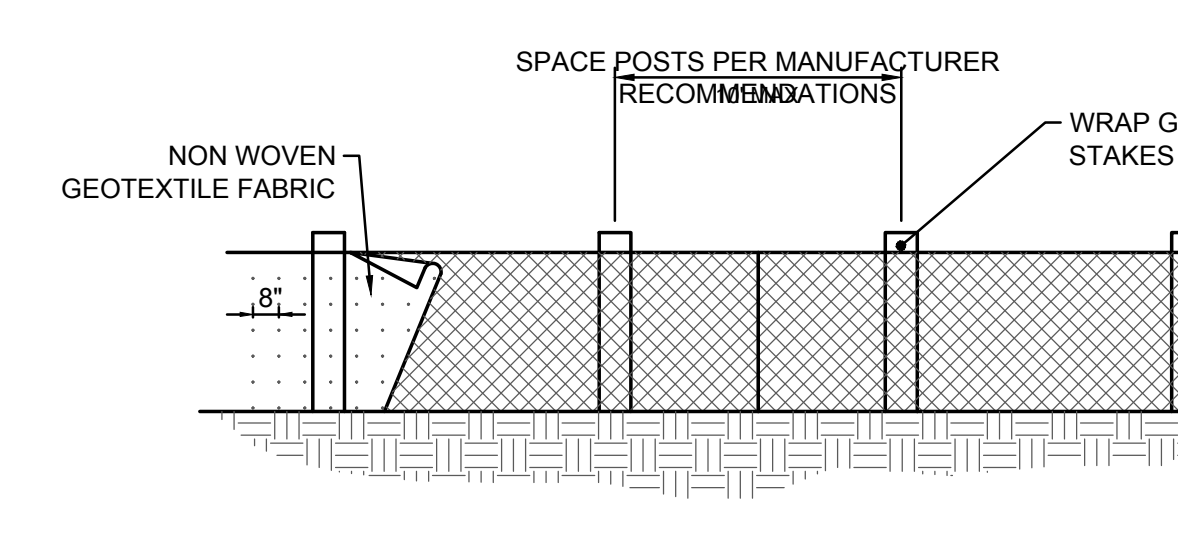
F EROSION CONTROL BLANKET
NOT TO SCALE



- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.

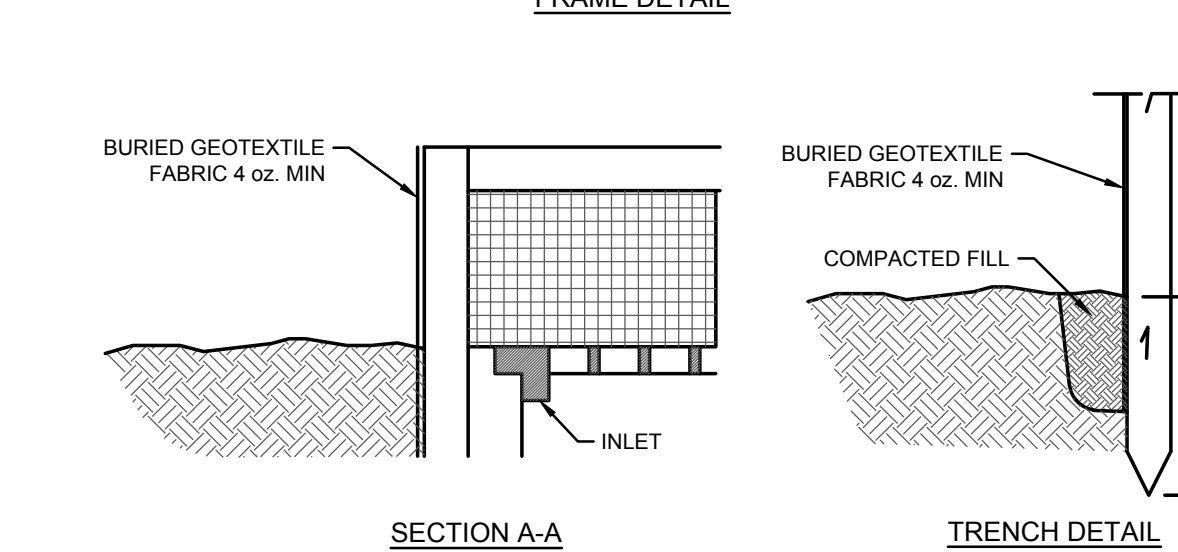
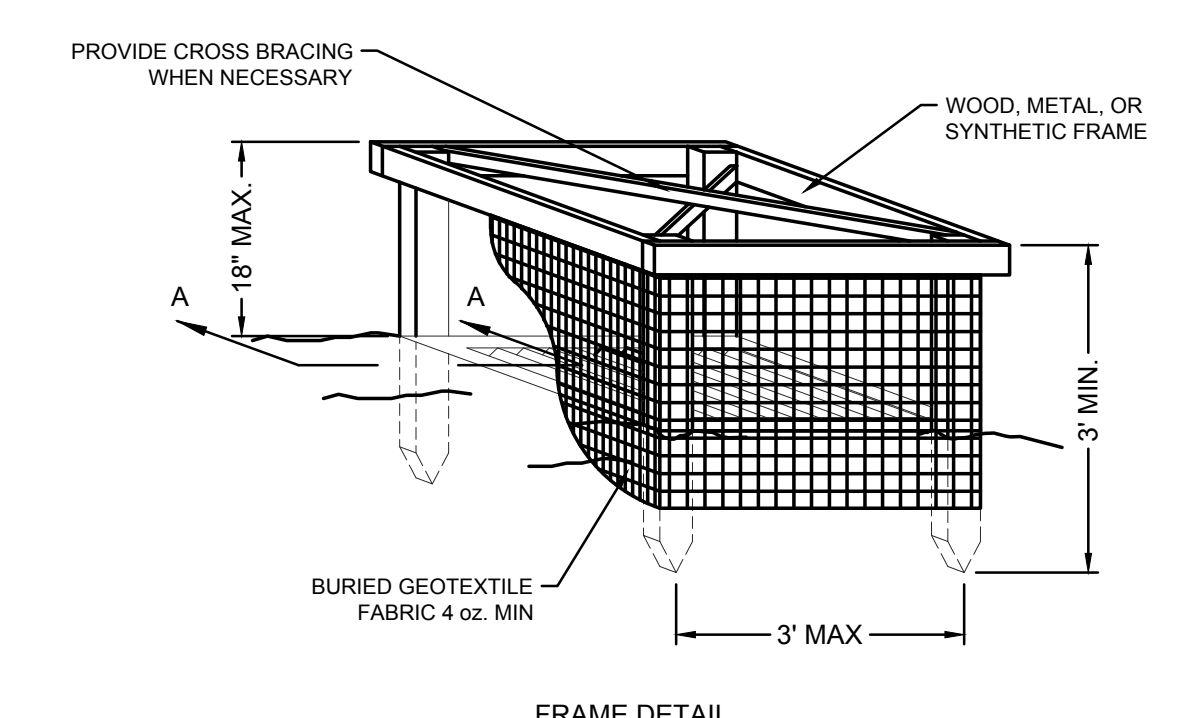
MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)

MINIMUM TENSILE STRENGTH	120 lbs (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 lbs (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 lbs (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	1x10 ⁻² sec. ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355



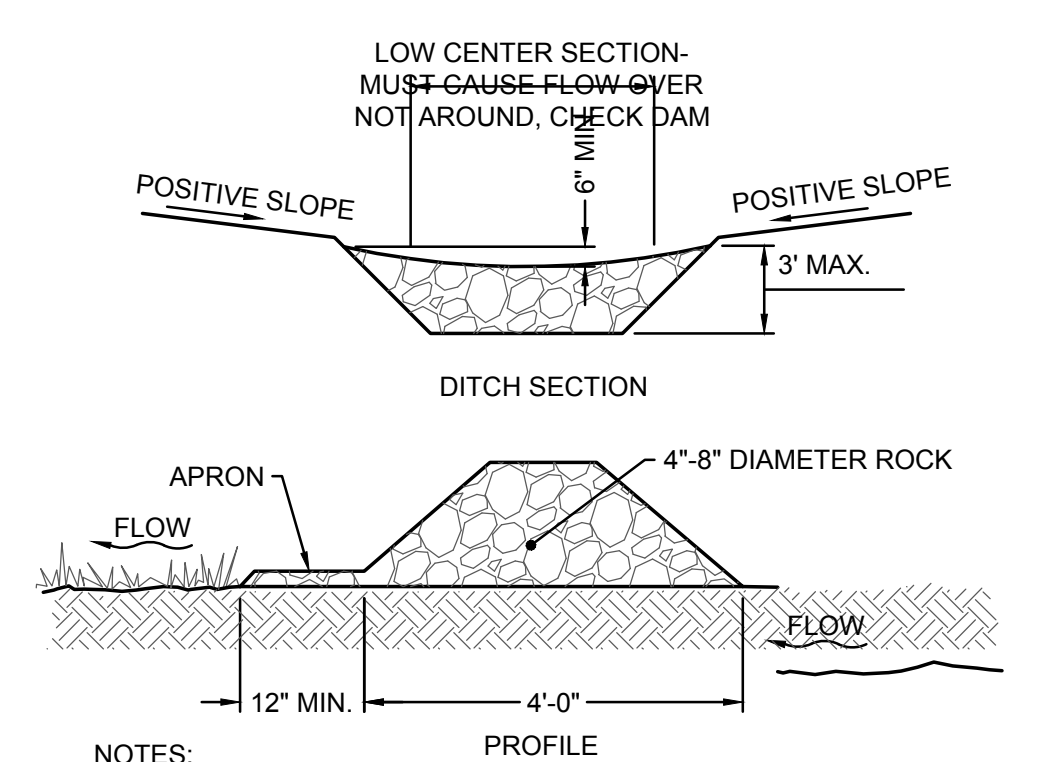
- NOTES:**
- FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
 - FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
 - MINIMUM 8" FABRIC BURY REQUIRED.
 - ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
 - THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

B SILT FENCE
NOT TO SCALE



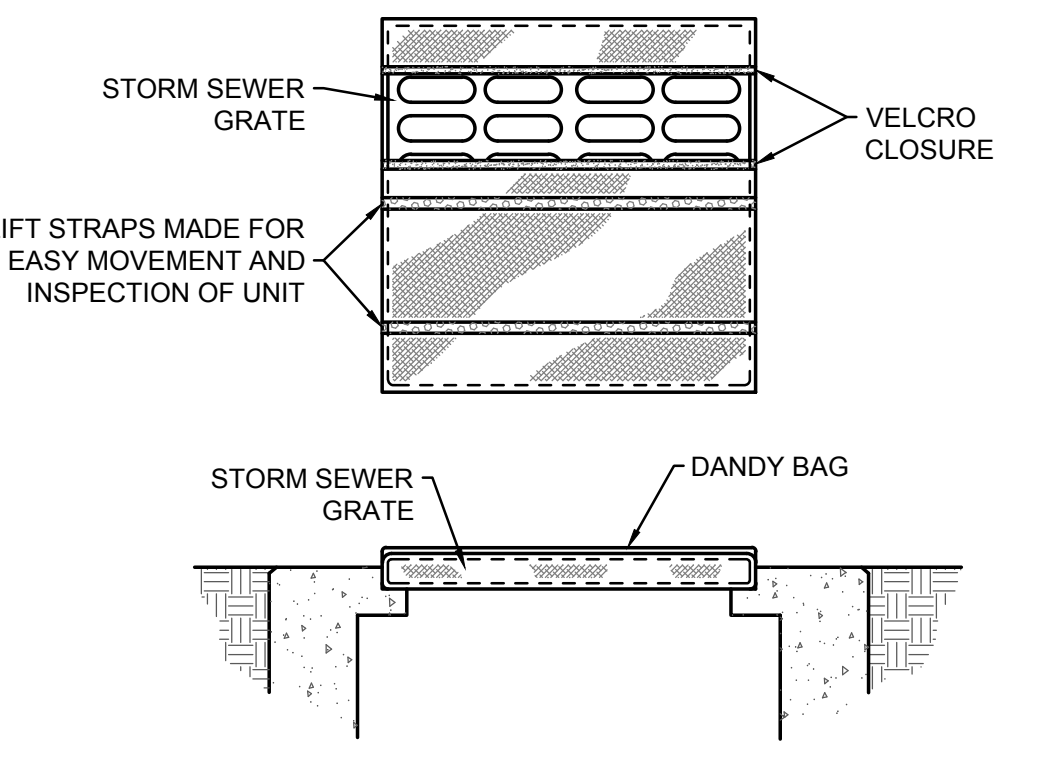
- NOTE:**
PROVIDE FOR INLETS NOT LOCATED IN PAVEMENT
- INLET PROTECTION SHALL BE CONSTRUCTION EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
 - THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
 - THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH CONSTRUCTION GRADE LUMBER. THE 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1) FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOIN SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
 - WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
 - GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
 - BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IS NOT IN A DEPRESSION. THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

E SILT FENCE INLET PROTECTION
NOT TO SCALE



- NOTES:**
- CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
 - SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
 - SIDE SLOPES SHALL BE A MINIMUM OF 2:1

A ROCK CHECK DAM
NOT TO SCALE



- INSTALLATION:**
- STAND GRATE ON END. PLACE DANDY BAG OVER GRATE.
 - FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY.
 - HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH THE GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.
- MAINTENANCE:**
AFTER EACH STORM EVENT AND SILT HAS DRIED, REMOVE ACCUMULATED DEBRIS FROM THE SURFACE OF DANDY BAG WITH BROOM.
- NOTE:**
DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS
- | | |
|-------------------------|-------------|
| GRAB TENSILE STRENGTH | ASTM D 4632 |
| GRAB TENSILE ELONGATION | ASTM D 4632 |
| PUNCTURE STRENGTH | ASTM D 4833 |
| MULLEN BURST STRENGTH | ASTM D 3786 |
| TRAPEZOID TEAR STRENGTH | ASTM D 4533 |
| UV RESISTANCE | ASTM D 4355 |
| APPARENT OPENING SIZE | ASTM D 4751 |
| FLOW RATE | ASTM D 4491 |
| PERMITIVITY | ASTM D 4491 |

D DANDY BAG INLET PROTECTION
NOT TO SCALE

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SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR OTHER ABSORBENT MATERIAL AND DISPOSED OF WITH TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO KENTUCKY EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE KENTUCKY EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN KENTUCKY ENERGY AND ENVIRONMENT CABINET APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

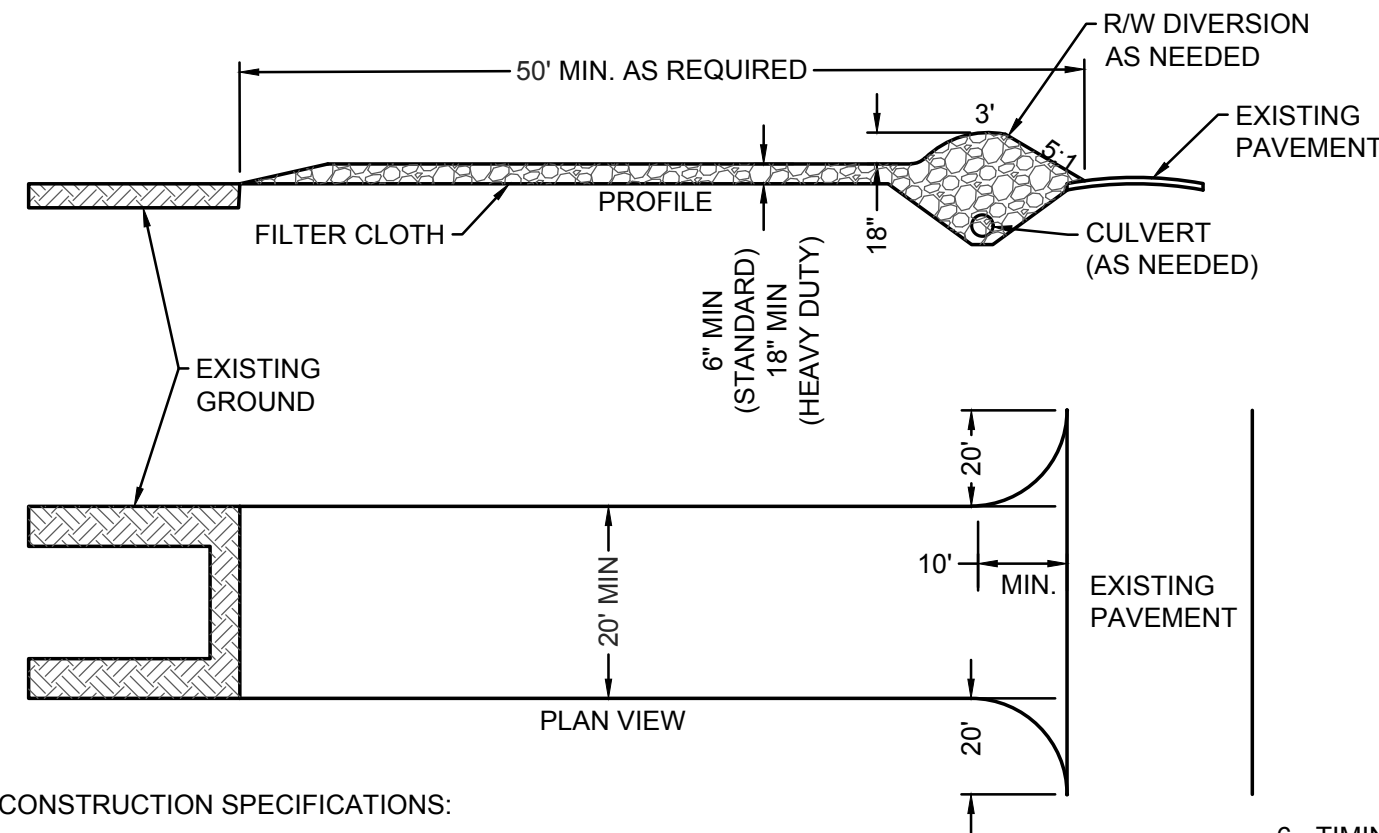
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE—KYTC # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
5. GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 lbs
MINIMUM PUNCTURE STRENGTH	80 psi
MINIMUM TEAR STRENGTH	50 lbs
MINIMUM BURST STRENGTH	320 psi
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS<0.6 mm
PERMITIVITY	1x10 ⁻³ cm/sec

G CONSTRUCTION ENTRANCE

NOT TO SCALE

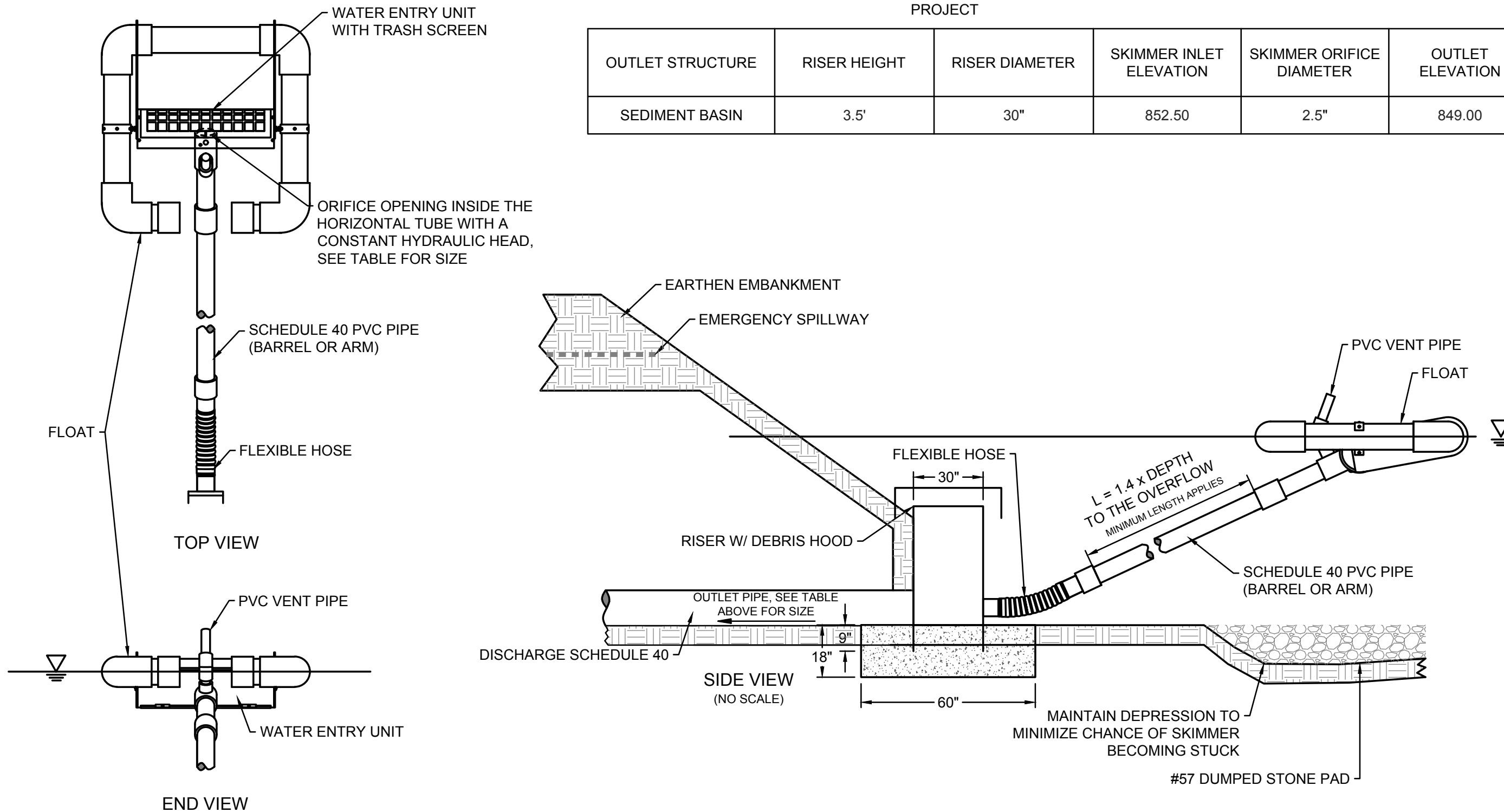
FAIRCLOTH SKIMMER GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

TEMPORARY RISER NOTES:

1. THE RISER SHALL HAVE A BASE ATTACHED WITH A WATERTIGHT CONNECTION AND SHALL HAVE SUFFICIENT WEIGHT TO PREVENT FLOTATION OF THE RISER. TWO APPROVED BASES FOR RISERS 24" OR LESS IN HEIGHT ARE:
 - A. A CONCRETE BASE 18" THICK WITH THE RISER EMBEDDED 9" IN THE BASE
 - B. A 3/4" MINIMUM THICKNESS STEEL PLATE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE CIRCUMFERENCE OF THE RISER TO FORM A WATERTIGHT CONNECTION. THE PLATE SHALL HAVE 2" OF STONE, GRAVEL, OR COMPACTED EARTH PLACED ON IT TO PREVENT FLOTATION. IN EITHER CASE, EACH SIDE OF THE SQUARE BASE SHALL BE TWICE THE RISER DIAMETER.
2. REMOVE ENTIRE TEMPORARY SEDIMENT BASIN STRUCTURE AT COMPLETION OF PROJECT

OUTLET STRUCTURE	RISER HEIGHT	RISER DIAMETER	SKIMMER INLET ELEVATION	SKIMMER ORIFICE DIAMETER	OUTLET ELEVATION	OUTLET DIAMETER
SEDIMENT BASIN	3.5'	30"	852.50	2.5"	849.00	18"

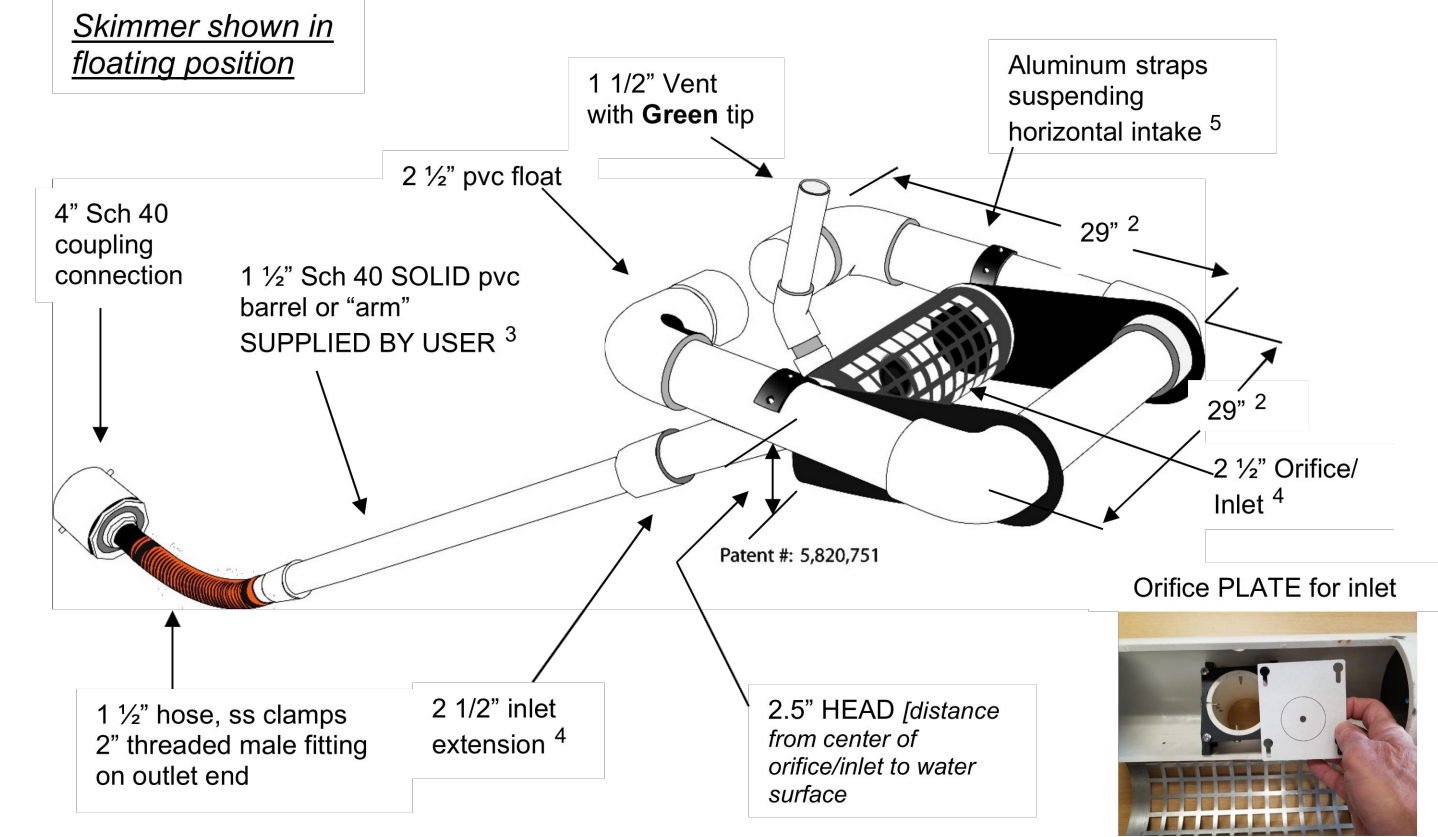


I FAIRCLOTH SKIMMER WITH EMBANKMENT & RISER PIPE

NOT TO SCALE

2.5" Faircloth Skimmer® Surface Drain Cut Sheet

J. W. Faircloth & Son, Inc.
www.FairclothSkimmer.com

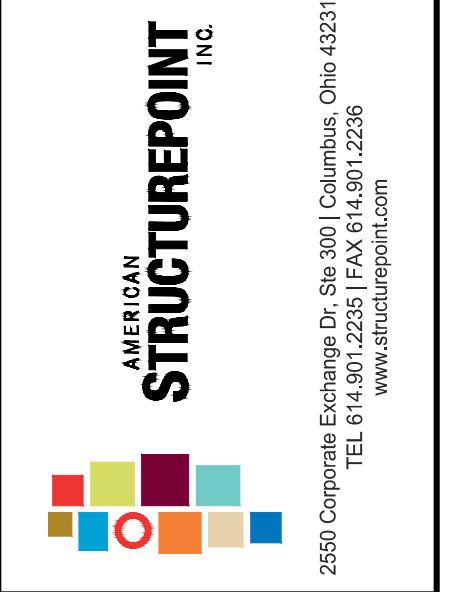


1. Skimmer can be attached to a straight 4" sch 40 pipe through the dam but the pipe may need to be anchored to the bottom at the connection so it is secure. Coupling can be removed and hose attached to outlet using the threaded 2" fitting. Typical methods used: a) a metal structure with a steel stub out welded on the side at the bottom with a 2" threaded coupling or reducer(s); b) a concrete structure with a hole or orifice at the bottom - use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant; or c) grout a 4" pvc pipe in a hole in the concrete to connect the skimmer.
2. Dimensions are approximate, not intended as plans for construction.
3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 6' so the inlet can be pulled to the side for maintenance. If more than 8' long weight may have to be added to inlet to counter the increased buoyancy.
4. Orifice/inlet tapers down from 2 1/2" maximum inlet to a 1 1/2" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The orifice/inlet can be reduced using the plate and cutter provided to control the outflow rate - see #6.
5. Horizontal intake is 5" pipe between the straps with aluminum screen door for access to the 2 1/2" inlet and orifice inside.
6. Capacity: 6,234 cubic feet per day maximum with 2 1/2" inlet and 2.5 head. Inlet can be reduced by installing a smaller orifice using the plate and cutter provided to adjust flow rate for the particular drawdown time required. Please use the sizing template at www.fairclothskimmer.com.
7. Ships assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plate and attaches to outlet pipe or structure. Includes float, flexible hose, rope, and orifice plate and cutter. Does NOT include 1 1/2" Sch 40 SOLID PVC barrel or "arm" SUPPLIED BY USER.

2-5inchCut 5-1-19

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SKIMMER SIZE			
BASIN VOLUME IN CUBIC FEET	15,228	SKIMMER SIZE	2.5
DAYS TO DRAIN	3	ORIFICE RADIUS	1.25 INCHES
		ORIFICE DIAMETER	2.5 INCHES



SITE CONSTRUCTION PLAN FOR
SANCTUARY AT EDWARDS
 CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
EROSION CONTROL DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

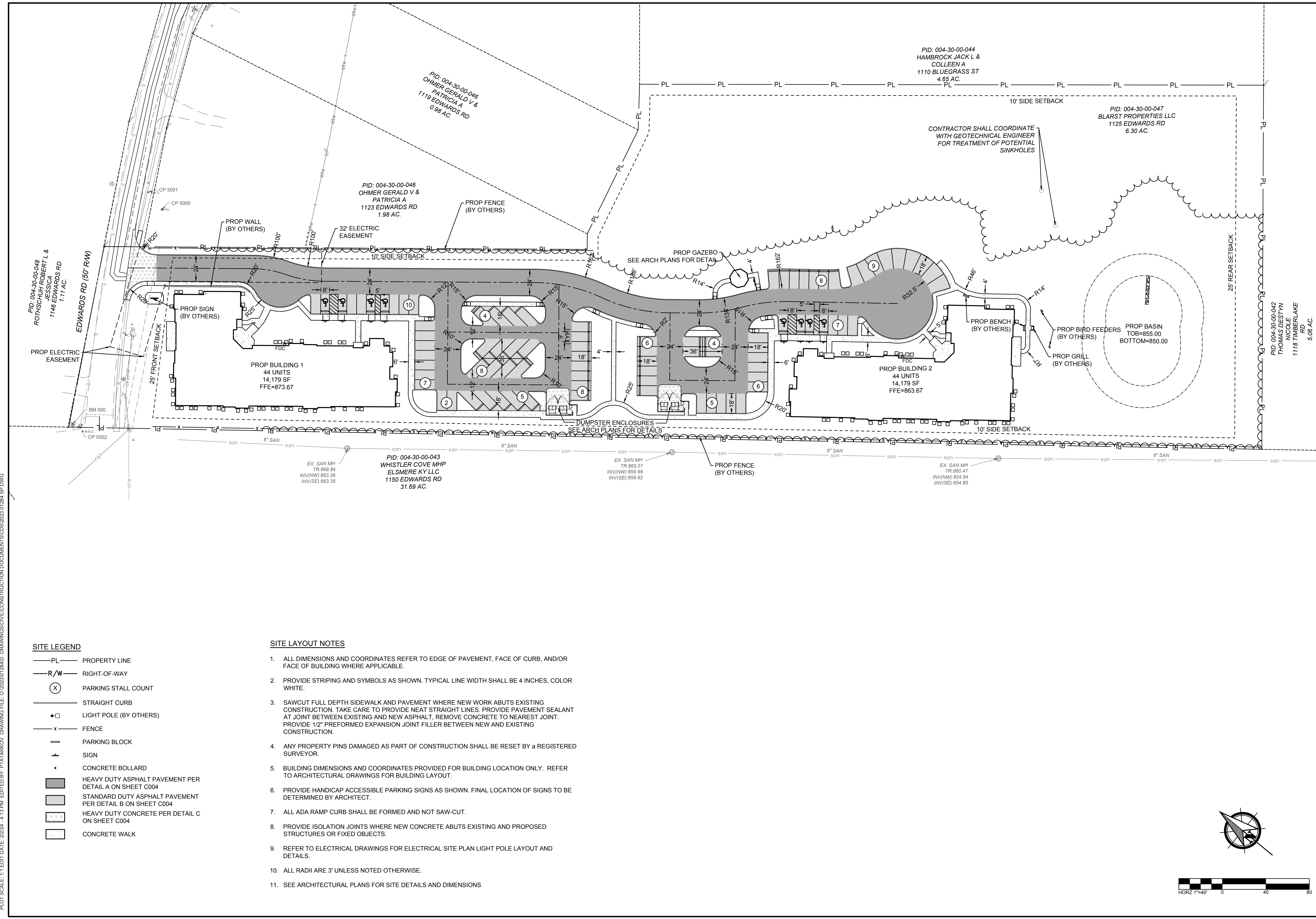
APPROVAL PENDING NOT FOR CONSTRUCTION
 IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OR REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE: 2/5/2024
 DRAWN BY: HSR
 CHECKED BY: AWO
 JOB NUMBER: 2023.01284

C203

PLOT SCALE: 1"=10' DATE: 2/22/24 4:12 PM EDITED BY: PTA/TARKOV DRAWING FILE: 0:202301284.D DRAWINGSCIVILCONSTRUCTION DOCUMENTS\SCS2023\01284.ESC.DWG

SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
SITE PLAN



SITE LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- (X) PARKING STALL COUNT
- STRAIGHT CURB
- LIGHT POLE (BY OTHERS)
- x — FENCE
- PARKING BLOCK
- SIGN
- CONCRETE BOLLARD
- HEAVY DUTY ASPHALT PAVEMENT PER DETAIL A ON SHEET C004
- STANDARD DUTY ASPHALT PAVEMENT PER DETAIL B ON SHEET C004
- HEAVY DUTY CONCRETE PER DETAIL C ON SHEET C004
- CONCRETE WALK

- SITE LAYOUT NOTES**
- ALL DIMENSIONS AND COORDINATES REFER TO EDGE OF PAVEMENT, FACE OF CURB, AND/OR FACE OF BUILDING WHERE APPLICABLE.
 - PROVIDE STRIPING AND SYMBOLS AS SHOWN. TYPICAL LINE WIDTH SHALL BE 4 INCHES, COLOR WHITE.
 - SAWCUT FULL DEPTH SIDEWALK AND PAVEMENT WHERE NEW WORK ABUTS EXISTING CONSTRUCTION. TAKE CARE TO PROVIDE NEAT STRAIGHT LINES. PROVIDE PAVEMENT SEALANT AT JOINT BETWEEN EXISTING AND NEW ASPHALT. REMOVE CONCRETE TO NEAREST JOINT. PROVIDE 1/2" PREFORMED EXPANSION JOINT FILLER BETWEEN NEW AND EXISTING CONSTRUCTION.
 - ANY PROPERTY PINS DAMAGED AS PART OF CONSTRUCTION SHALL BE RESET BY A REGISTERED SURVEYOR.
 - BUILDING DIMENSIONS AND COORDINATES PROVIDED FOR BUILDING LOCATION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT.
 - PROVIDE HANDICAP ACCESSIBLE PARKING SIGNS AS SHOWN. FINAL LOCATION OF SIGNS TO BE DETERMINED BY ARCHITECT.
 - ALL ADA RAMP CURB SHALL BE FORMED AND NOT SAW-CUT.
 - PROVIDE ISOLATION JOINTS WHERE NEW CONCRETE ABUTS EXISTING AND PROPOSED STRUCTURES OR FIXED OBJECTS.
 - REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL SITE PLAN LIGHT POLE LAYOUT AND DETAILS.
 - ALL RADII ARE 3' UNLESS NOTED OTHERWISE.
 - SEE ARCHITECTURAL PLANS FOR SITE DETAILS AND DIMENSIONS

REVISIONS	DATE	DESCRIPTION

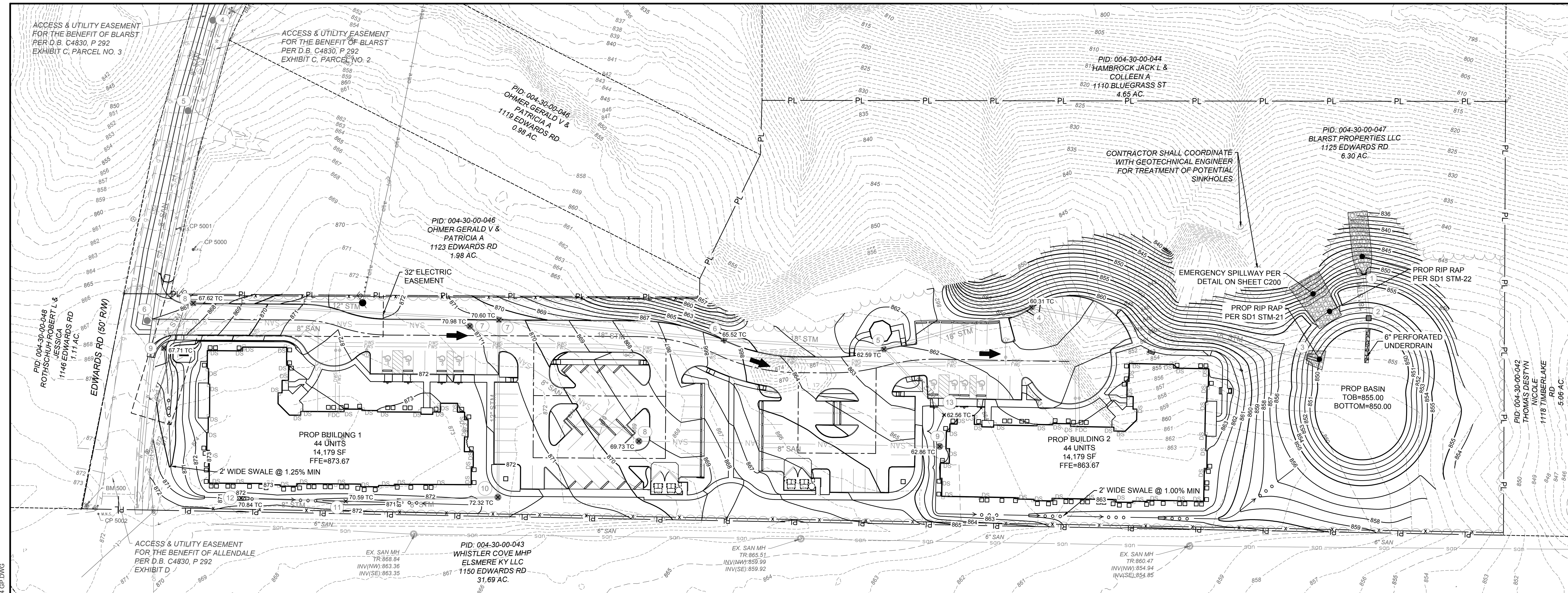
APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284



C300

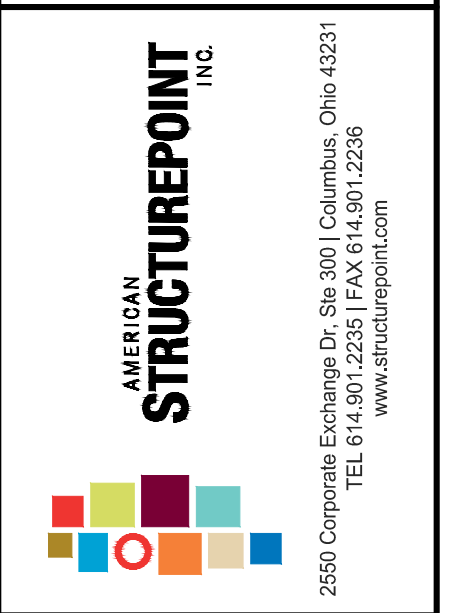
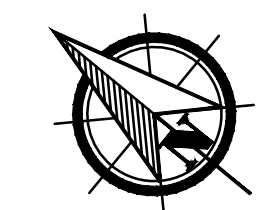
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PLOT SCALE: 1"=40' DATE: 2/24/24 4:44 PM EDITED BY: PTA/TARKOV DRAWING FILE: O:\2023\01284\DRAWING\CIVIL\CONSTRUCTION DOCUMENTS\C400_01284_GP.DWG

- GRADING LEGEND**
- xxx— PROPOSED MAJOR CONTOUR
 - xxx— PROPOSED MINOR CONTOUR
 - - -xxx- - - EXISTING MAJOR CONTOUR
 - - -xxx- - - EXISTING MINOR CONTOUR
 - FFE=110.00 FINISHED FLOOR ELEVATION
 - X10.00 SPOT ELEVATION
 - X100.00 TC TOP OF CASTING ELEVATION
 - X10.00 HP HIGH POINT ELEVATION
 - X10.00 ME MATCH EXISTING ELEVATION
 - $\frac{10.50}{10.00}$ TOP OF CURB ELEVATION
 - $\frac{10.50}{10.00}$ BOTTOM OF CURB ELEVATION
 - ← X.XX% SLOPE ARROW
 - FLOW ARROW
 - ← FLOOD ROUTE
 - NORMAL POOL
 - o— SWALE
 - ATG ADJUST TO GRADE

GRADING NOTE
ADD 800.00 TO ALL SPOT ELEVATIONS TO OBTAIN NAVD88 ELEVATIONS.



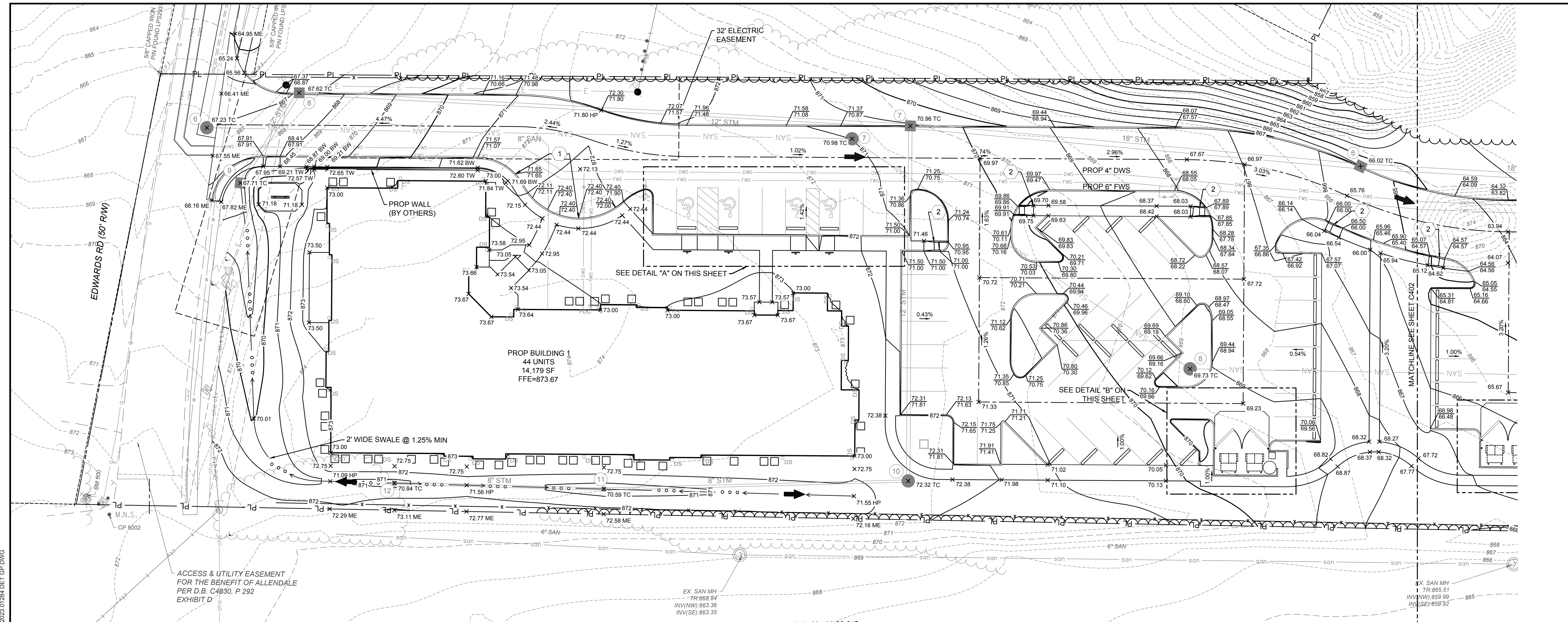
SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
**OVERALL
GRADING PLAN**

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/5/2024
DRAWN BY:	HSR
CHECKED BY:	AWO
JOB NUMBER:	2023.01284

C400



ACCESS & UTILITY EASEMENT
FOR THE BENEFIT OF ALLENDALE
PER D.B. C4830, P 292
EXHIBIT D

STORM SEWER PROFILE NOTES:

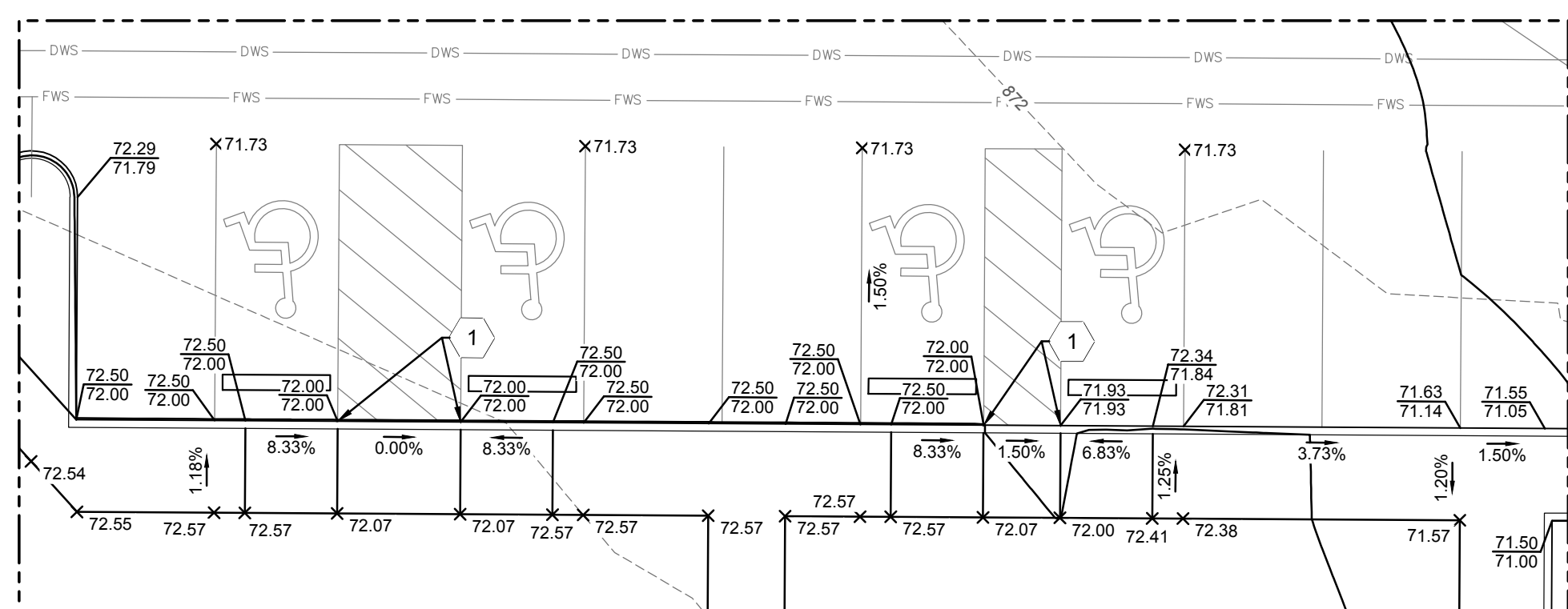
1. PROFILE VERTICAL DATUM NAVD '88.
2. ALL STORM STRUCTURES ARE SD1 STANDARD STRUCTURES UNLESS OTHERWISE NOTED.
3. MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATERLINES.
4. ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
 - * COMPACTED BACKFILL PER KYTC STANDARD SPECIFICATIONS ITEM 805
 - ** COMPACTED GRANULAR BACKFILL PER KYTC STANDARD SPECIFICATIONS ITEM 805
5. ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER KYTC STANDARD SPECIFICATIONS ITEM 204 PRIOR TO THE START OF STORM SEWER CONSTRUCTION. HATCH BELOW FOR REFERENCE.
6. ALL STORM STRUCTURES WITHIN PAVEMENT LIMITS SHALL HAVE HEAVY DUTY TRAFFIC RATED GRATES.
7. NORTHING AND EASTING OF CURB AND GUTTER INLETS ARE IN REFERENCE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. T.C. (TOP OF CASTING) ELEVATION AND LOCATION FOR ALL CURB AND GUTTER INLETS IS IN REFERENCE TO THE BACK OF CURB ELEVATION.

CODED NOTES

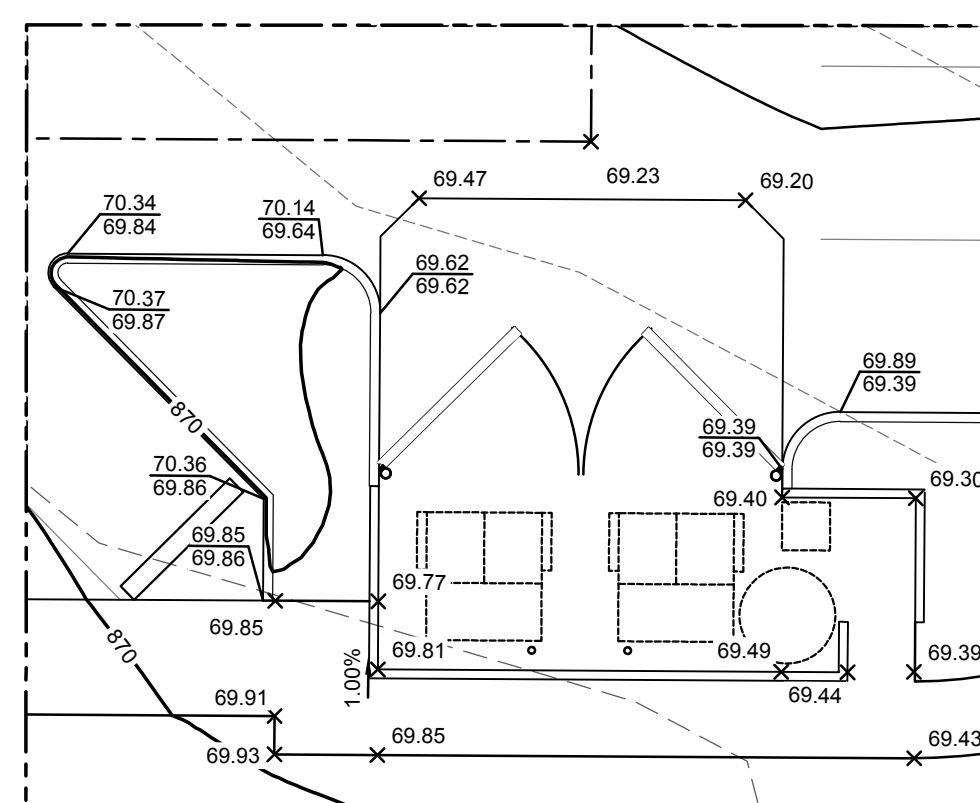
- ① FLUSH CURB
- ② PROPOSED CURB RAMP

GRADING LEGEND

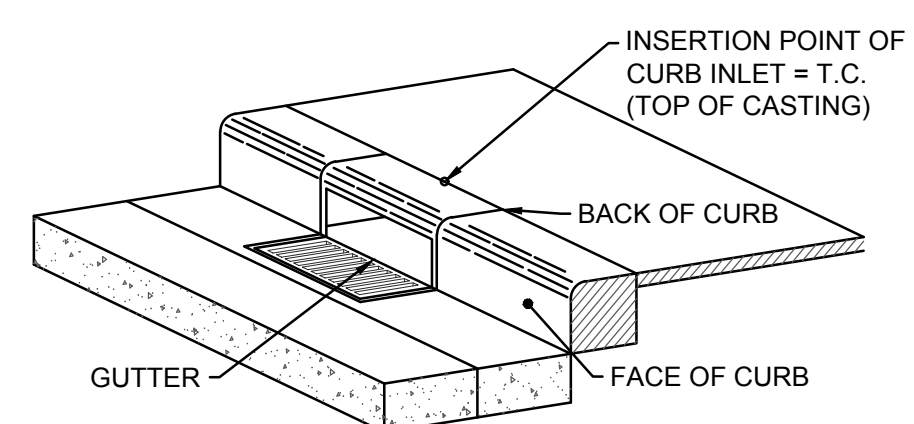
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- xxx— PROPOSED MINOR CONTOUR
- - -XXX- - - EXISTING MAJOR CONTOUR
- - -xxx- - - EXISTING MINOR CONTOUR
- FFE=110.00 FINISHED FLOOR ELEVATION
- X10.00 SPOT ELEVATION
- X100.00 TC TOP OF CASTING ELEVATION
- X10.00 HP HIGH POINT ELEVATION
- X10.00 ME MATCH EXISTING ELEVATION
- 10.50 TOP OF CURB ELEVATION
- 10.00 BOTTOM OF CURB ELEVATION
- X.XX% SLOPE ARROW
- ~ FLOW ARROW
- ← FLOOD ROUTE
- NORMAL POOL
- o—o— SWALE
- ATG ADJUST TO GRADE



A ADA PARKING DETAIL
SCALE: 1"=10'

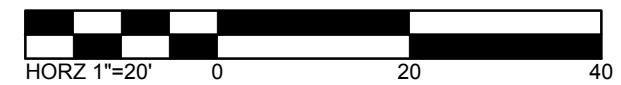


B DUMPSTER DETAIL
SCALE: 1"=10'



GRADING NOTE

ADD 800.00 TO ALL SPOT ELEVATIONS TO OBTAIN NAVD88 ELEVATIONS.



REVISIONS	DATE	DESCRIPTION

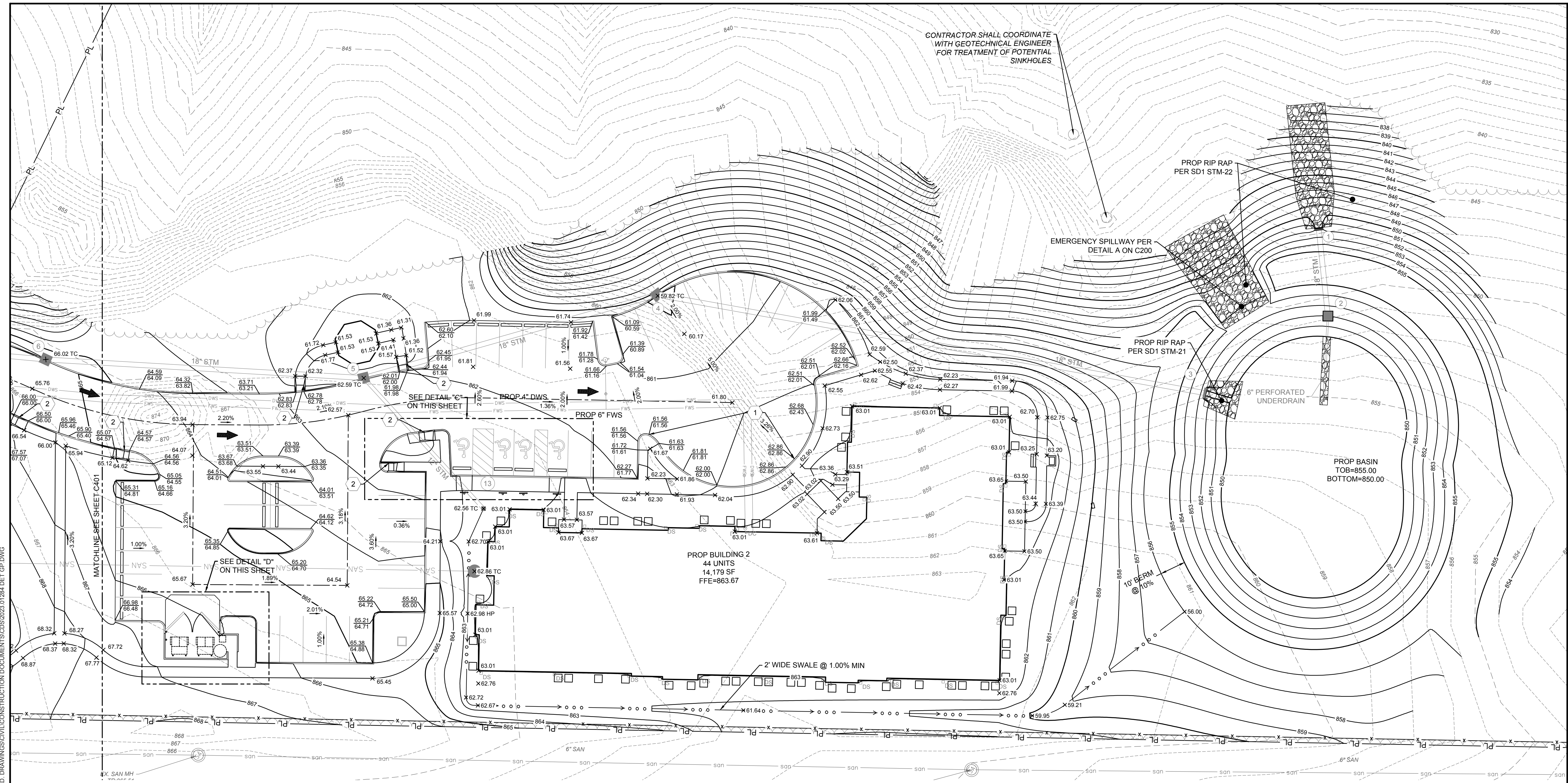
APPROVAL PENDING NOT FOR CONSTRUCTION

IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C401

PLOT SCALE: 1"=10' DATE: 2/24/24 3:38 PM EDITED BY: PTA/TARKOY DRAWING FILE: C:\2023\01284\DRAWING\CIVIL\CONSTRUCTION DOCUMENTS\C401284.DET (SP.DWG)



CONTRACTOR SHALL COORDINATE
WITH GEOTECHNICAL ENGINEER
FOR TREATMENT OF POTENTIAL
SINKHOLES

EMERGENCY SPILLWAY PER
DETAIL A ON C200

PROP RIP RAP
PER SD1 STM-22

PROP RIP RAP
PER SD1 STM-21

6\"/>

PROP BASIN
TOB=855.00
BOTTOM=850.00

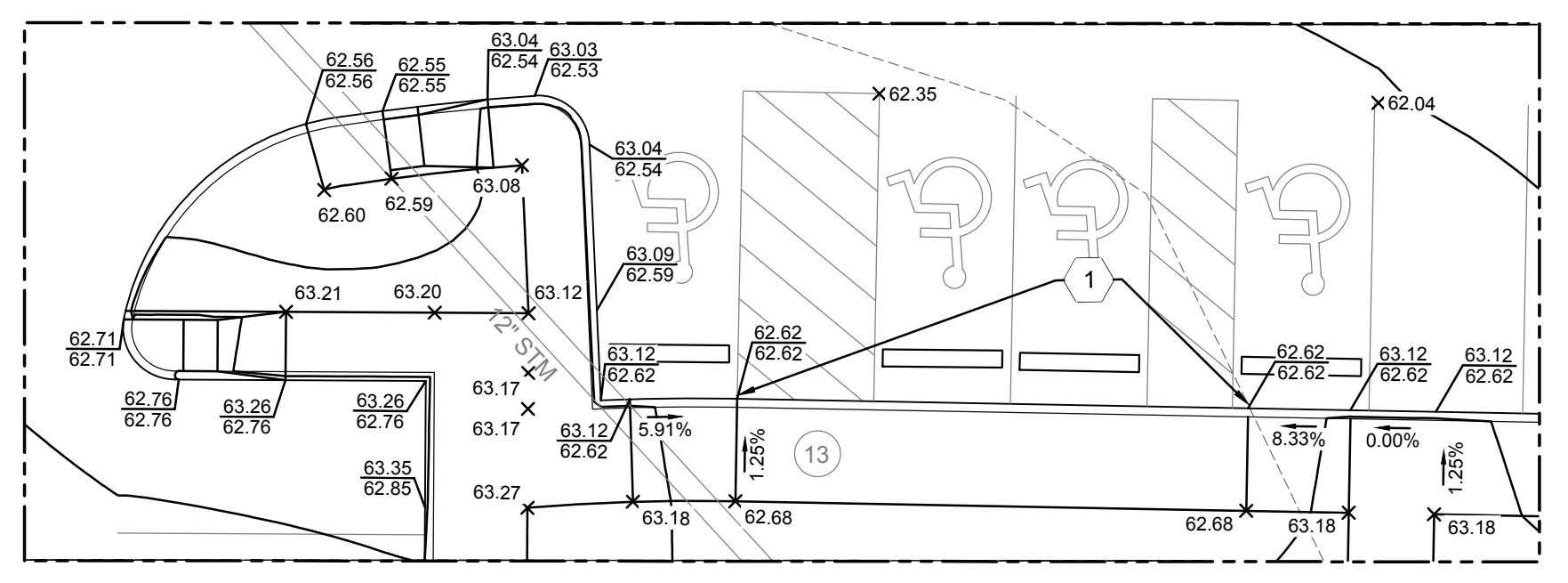
PROP BUILDING 2
44 UNITS
14,179 SF
FFE=863.67

2' WIDE SWALE @ 1.00% MIN

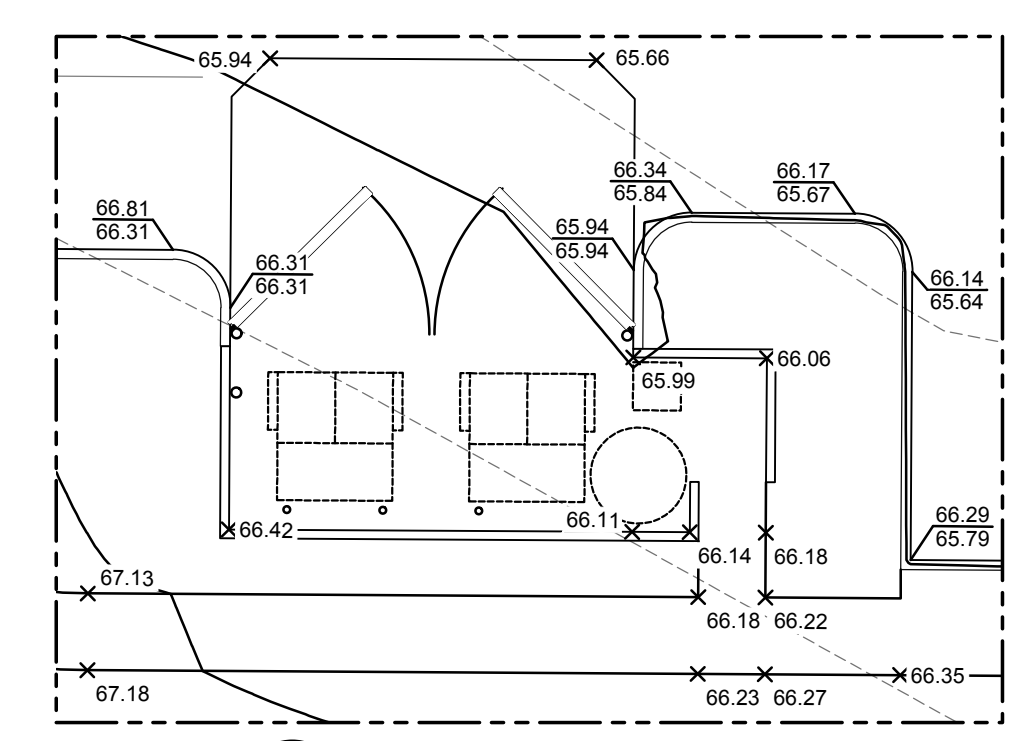
10' BERM
@ 10%

- GRADING LEGEND**
- XXX--- PROPOSED MAJOR CONTOUR
 - xxx--- PROPOSED MINOR CONTOUR
 - - -XXX- - - EXISTING MAJOR CONTOUR
 - - -xxx- - - EXISTING MINOR CONTOUR
 - FFE=110.00 FINISHED FLOOR ELEVATION
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 - X100.00 TC TOP OF CASTING ELEVATION
 - X10.00 HP HIGH POINT ELEVATION
 - X10.00 ME MATCH EXISTING ELEVATION
 - 10.50 / 10.00 TOP OF CURB ELEVATION
 - 10.00 / 10.00 BOTTOM OF CURB ELEVATION
 - X.XX% SLOPE ARROW
 - ~ FLOW ARROW
 - ← FLOOD ROUTE
 - NORMAL POOL
 - SWALE
 - ATG ADJUST TO GRADE

- CODED NOTES**
- 1 FLUSH CURB
 - 2 PROPOSED CURB RAMP

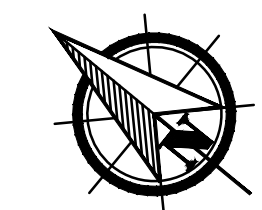


C ADA PARKING DETAIL
SCALE: 1"=10'



D DUMPSTER DETAIL
SCALE: 1"=10'

GRADING NOTE
ADD 800.00 TO ALL SPOT ELEVATIONS TO OBTAIN NAVD88 ELEVATIONS.



REVISIONS	DATE	SHEET NO.	DESCRIPTION

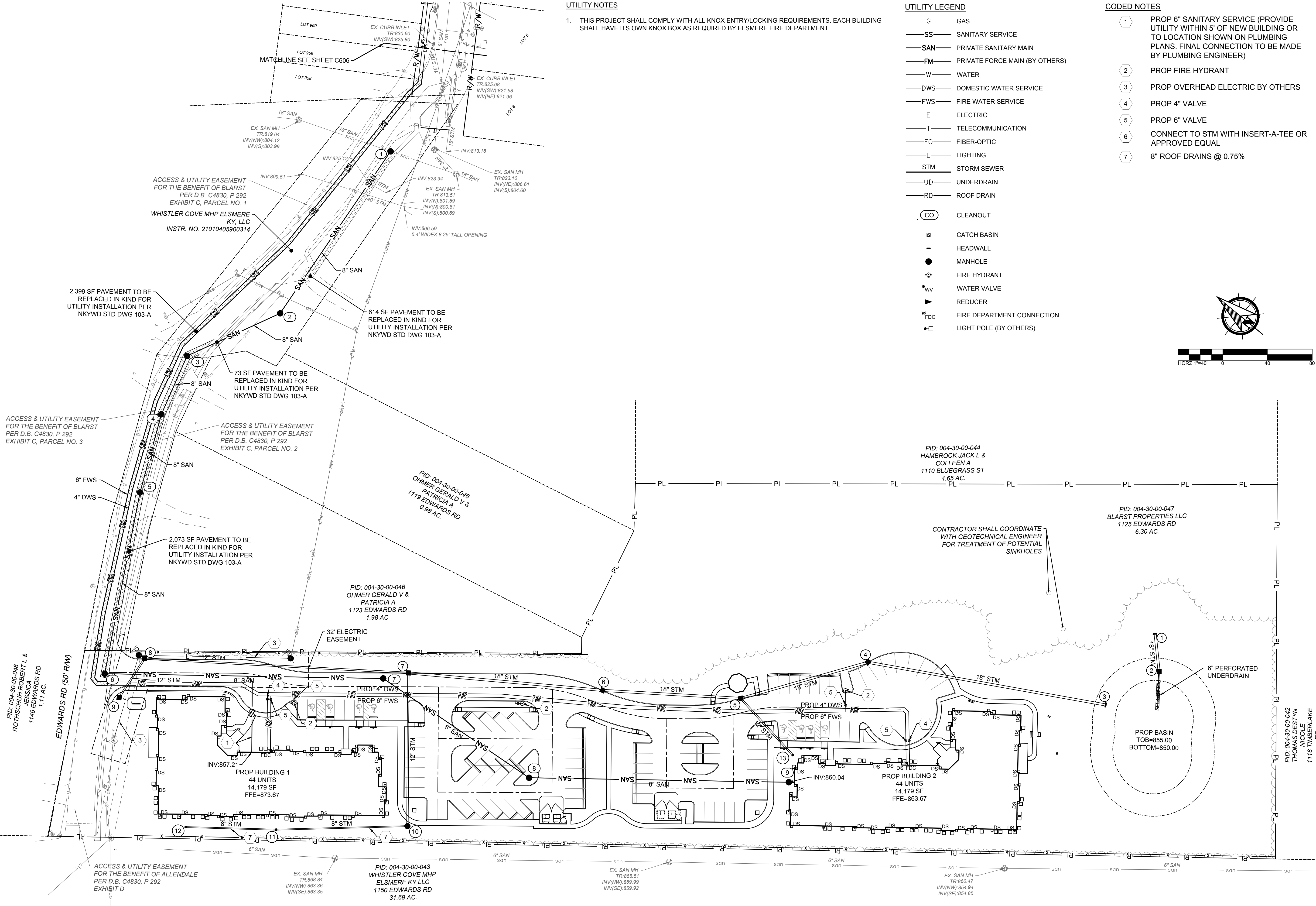
APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C402

PLOT SCALE: 1"=10' EDIT DATE: 2/2/24 3:38 PM EDITED BY: P.T.A.T.A.R.K.O.V. DRAWING FILE: C:\2023\01284\DRAWING\CIVIL\CONSTRUCTION\DOCUMENTS\C402\23.01284.DET.GP.DWG

PLOT SCALE: 1"=10' DATE: 2/22/24 2:04 PM EDITED BY: JFRANK DRAWING FILE: 0202301284.D DRAWINGS/CIVIL/CONSTRUCTION DOCUMENTS/2023.01284-UP.DWG



UTILITY NOTES

1. THIS PROJECT SHALL COMPLY WITH ALL KNOX ENTRY/LOCKING REQUIREMENTS. EACH BUILDING SHALL HAVE ITS OWN KNOX BOX AS REQUIRED BY ELSMERE FIRE DEPARTMENT

UTILITY LEGEND

- G— GAS
- SS— SANITARY SERVICE
- SAN— PRIVATE SANITARY MAIN
- FM— PRIVATE FORCE MAIN (BY OTHERS)
- W— WATER
- DWS— DOMESTIC WATER SERVICE
- FWS— FIRE WATER SERVICE
- E— ELECTRIC
- T— TELECOMMUNICATION
- FO— FIBER-OPTIC
- L— LIGHTING
- STM— STORM SEWER
- UD— UNDERDRAIN
- RD— ROOF DRAIN
- ⊙ (CO) CLEANOUT
- CATCH BASIN
- HEADWALL
- MANHOLE
- ⊕ FIRE HYDRANT
- ⊙ WW WATER VALVE
- ▶ REDUCER
- ⊕ FDC FIRE DEPARTMENT CONNECTION
- LIGHT POLE (BY OTHERS)

CODED NOTES

- ① PROP 6" SANITARY SERVICE (PROVIDE UTILITY WITHIN 5' OF NEW BUILDING OR TO LOCATION SHOWN ON PLUMBING PLANS. FINAL CONNECTION TO BE MADE BY PLUMBING ENGINEER)
- ② PROP FIRE HYDRANT
- ③ PROP OVERHEAD ELECTRIC BY OTHERS
- ④ PROP 4" VALVE
- ⑤ PROP 6" VALVE
- ⑥ CONNECT TO STM WITH INSERT-A-TEE OR APPROVED EQUAL
- ⑦ 8" ROOF DRAINS @ 0.75%



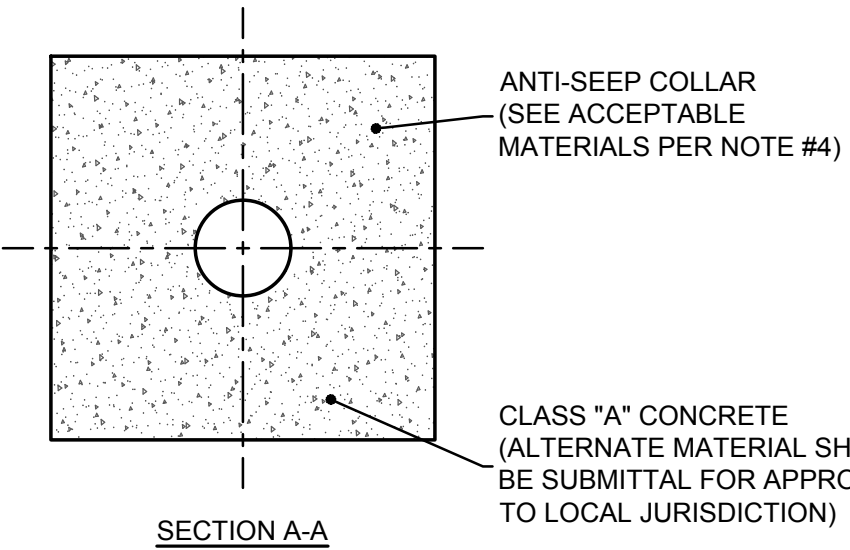
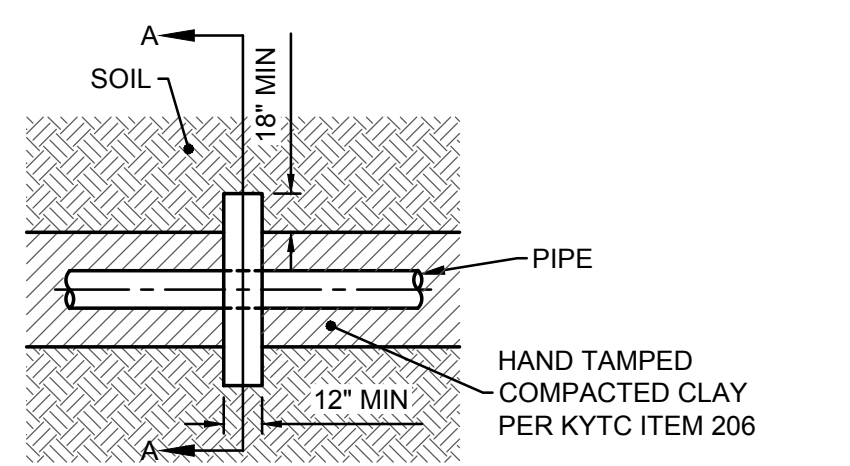
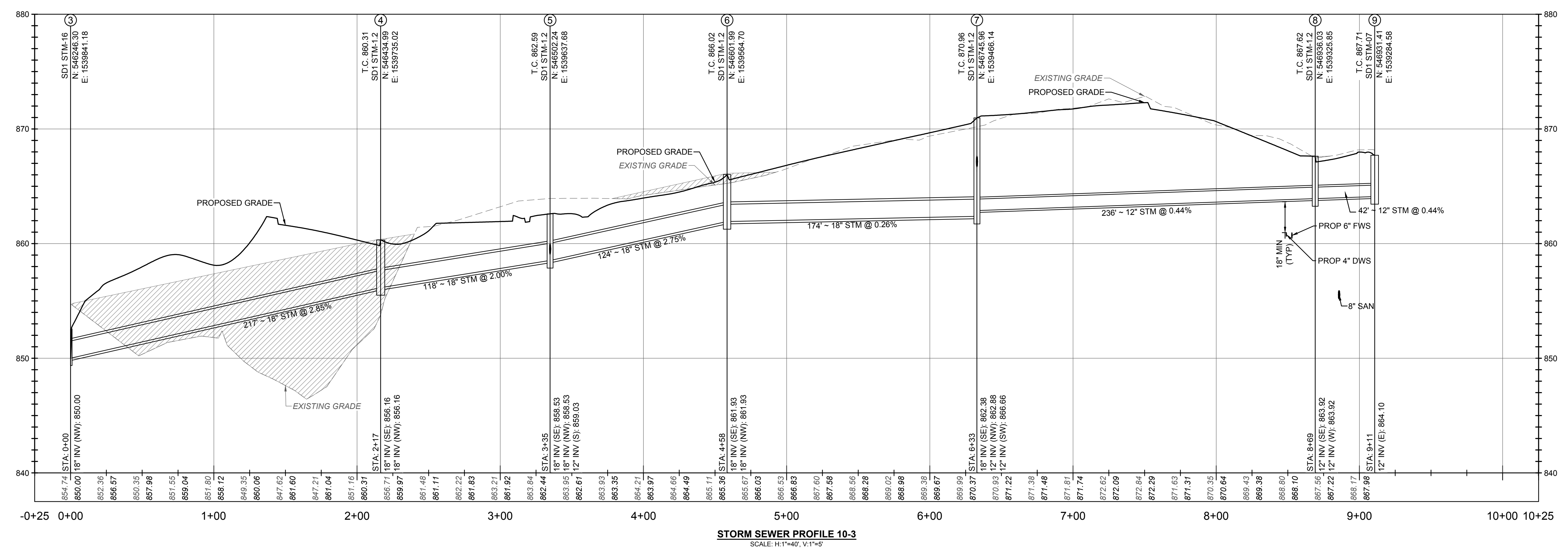
SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
UTILITY PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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DATE: 2/5/2024
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CHECKED BY: AWO
JOB NUMBER: 2023.01284

C500



- NOTES**
- SPACING BETWEEN ADJACENT COLLARS SHALL BE A MINIMUM OF 5 FEET WITH THE FIRST COLLAR BEING A MINIMUM OF 5 FEET FROM THE INLET.
 - FURNISH A MINIMUM OF 2 COLLARS PER OUTLET CONDUIT.
 - ALL ANTI-SEEP COLLARS AND THEIR CONNECTIONS SHALL BE WATERTIGHT.
 - ANTI-SEEP COLLAR SHALL BE CONSTRUCTED OF CONCRETE OR SAME MATERIAL OF THE CONDUIT. THE FOLLOWING ARE ACCEPTABLE MATERIALS:
 - A. CLASS "A" CONCRETE
 - B. STEEL
 - C. CORRUGATED METAL
 - D. PLASTIC

ANTI-SEEP COLLAR
NOT TO SCALE



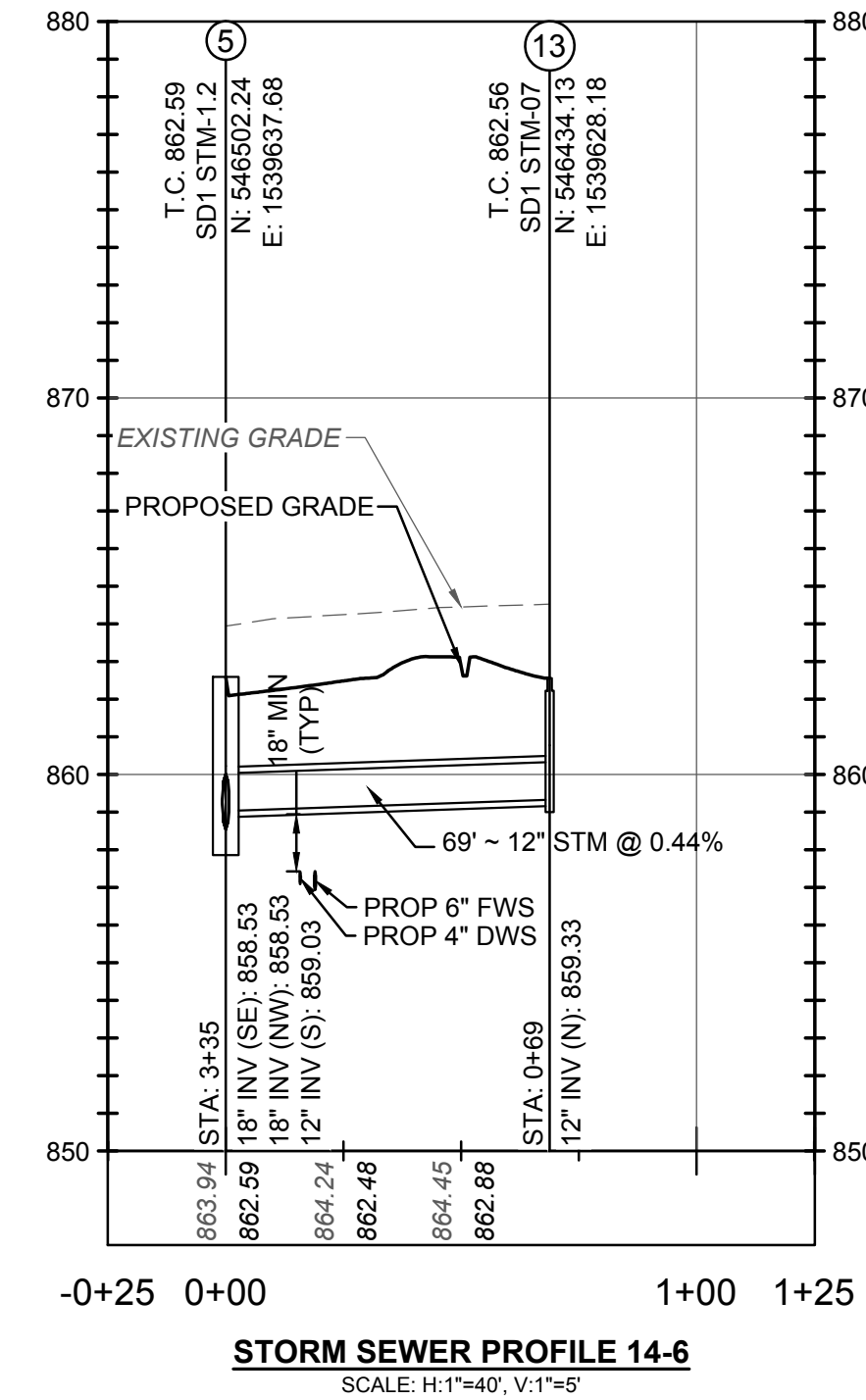
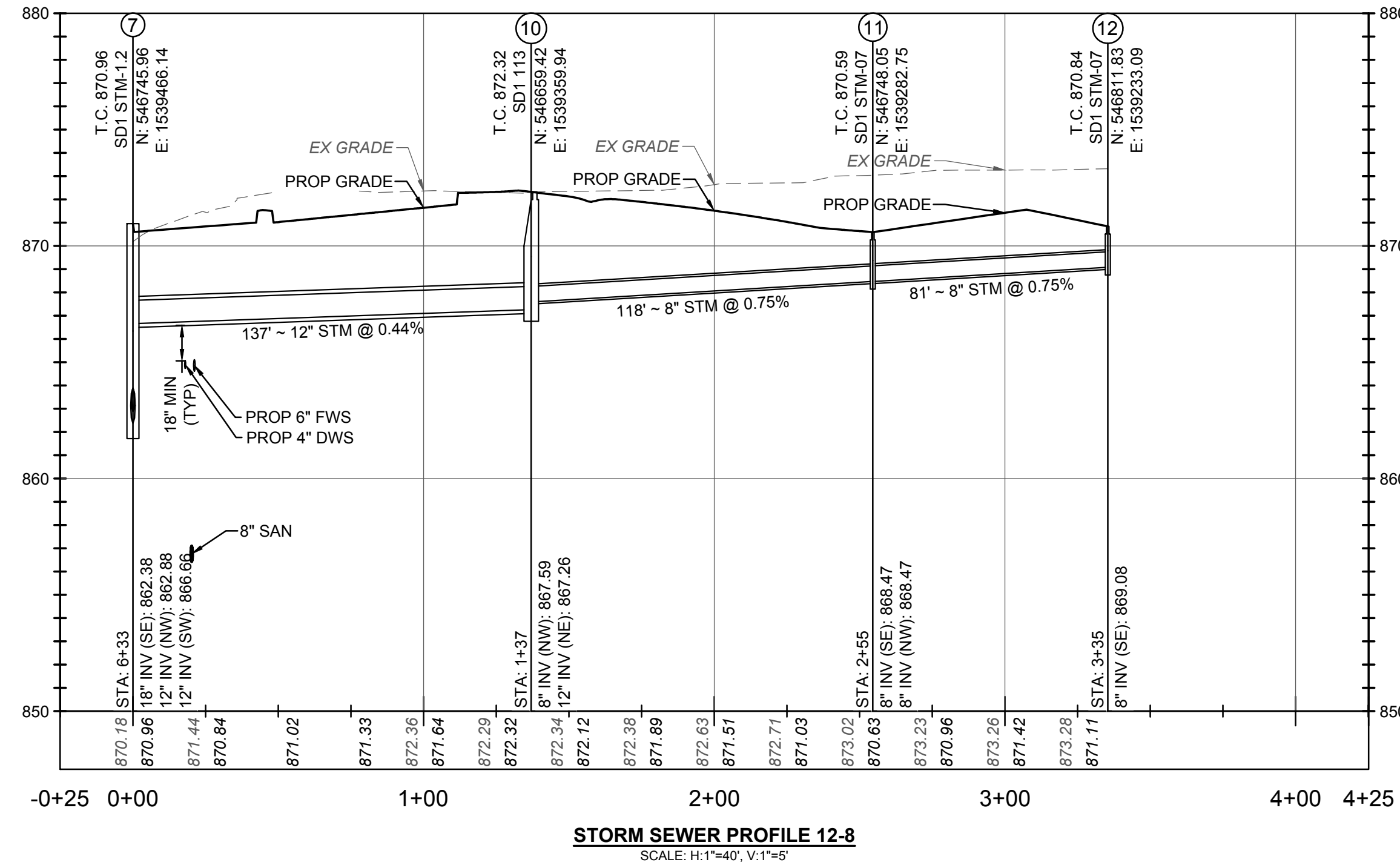
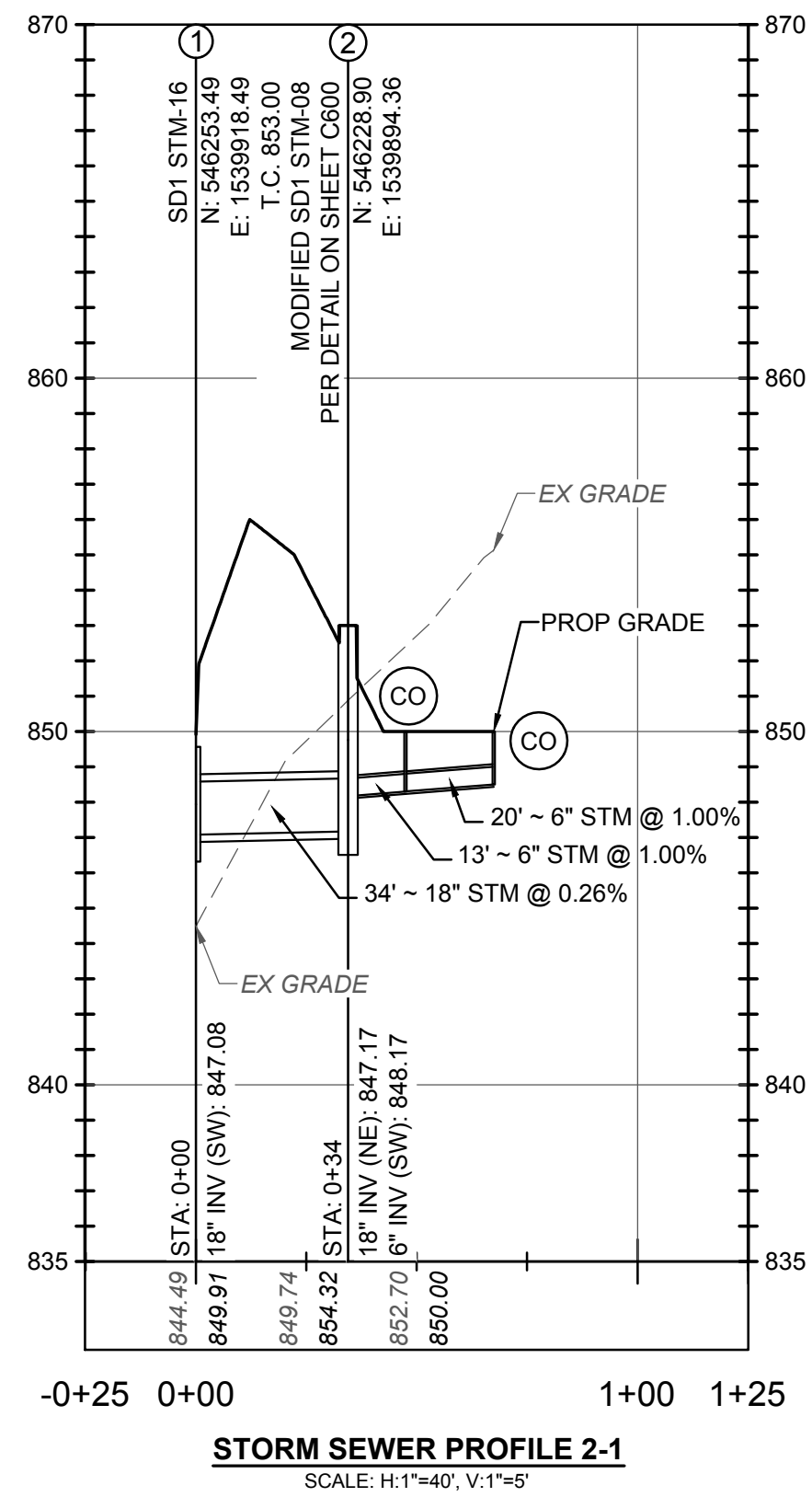
REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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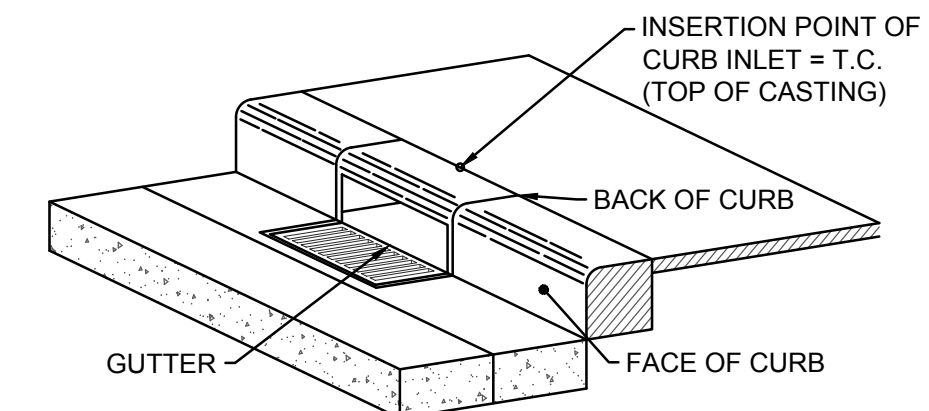
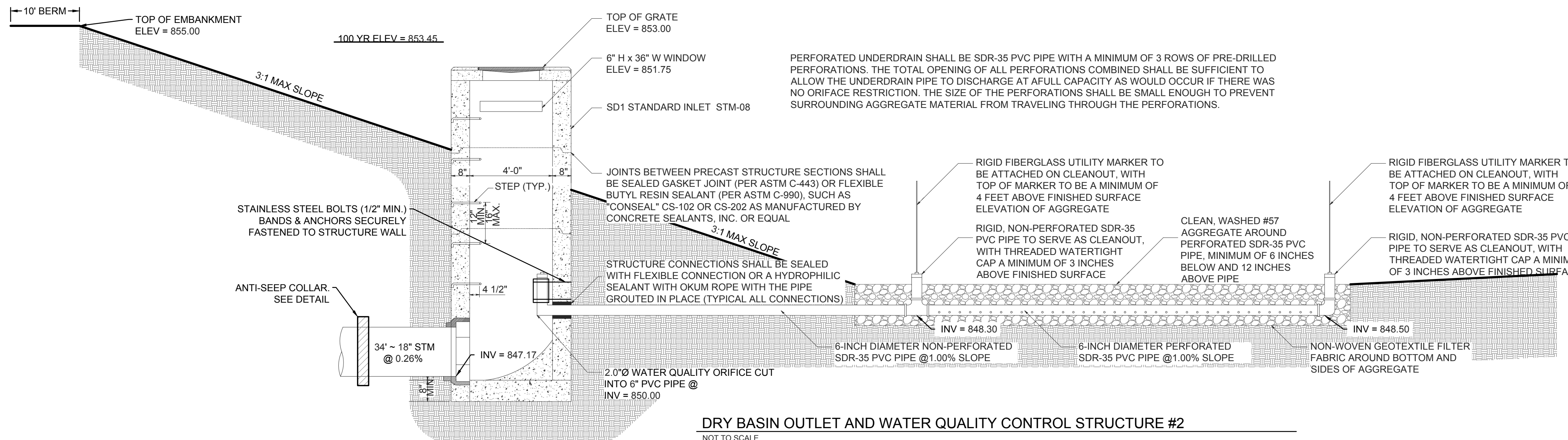
C600

PLOT SCALE: 1"=40' DATE: 2/24/24 3:24 PM EDITED BY: JFRANK DRAWING FILE: 02202301284.DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\2023.01284.PRF.DWG



STORM SEWER PROFILE NOTES:

1. PROFILE VERTICAL DATUM NAVD '88.
2. ALL STORM STRUCTURES ARE SD1 STANDARD STRUCTURES UNLESS OTHERWISE NOTED.
3. MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATERLINES.
4. ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
 - * COMPACTED BACKFILL PER KYTC STANDARD SPECIFICATIONS ITEM 805
 - ** COMPACTED GRANULAR BACKFILL PER KYTC STANDARD SPECIFICATIONS ITEM 805
5. ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER KYTC STANDARD SPECIFICATIONS ITEM 204 PRIOR TO THE START OF STORM SEWER CONSTRUCTION. HATCH BELOW FOR REFERENCE.
6. ALL STORM STRUCTURES WITHIN PAVEMENT LIMITS SHALL HAVE HEAVY DUTY TRAFFIC RATED GRATES.
7. NORTHING AND EASTING OF CURB AND GUTTER INLETS ARE IN REFERENCE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. T.C. (TOP OF CASTING) ELEVATION AND LOCATION FOR ALL CURB AND GUTTER INLETS IS IN REFERENCE TO THE BACK OF CURB ELEVATION.
9. ALL PIPE CONNECTIONS TO PROPOSED OUTLET CONTROL STRUCTURE SHALL BE SEALED WITH A WATERTIGHT CONNECTION.



REVISIONS	DATE	SHEET NO.	DESCRIPTION

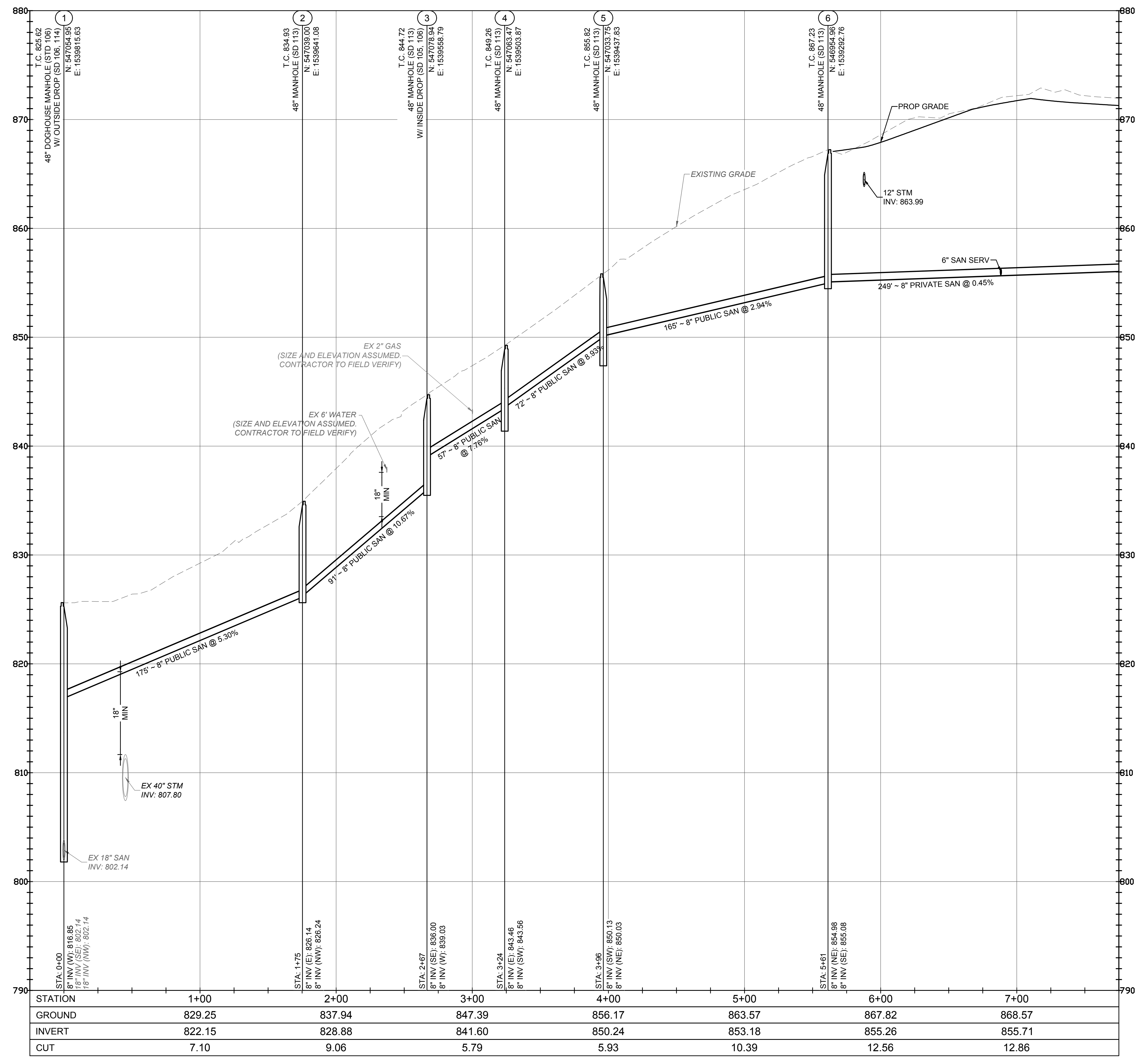
APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C601

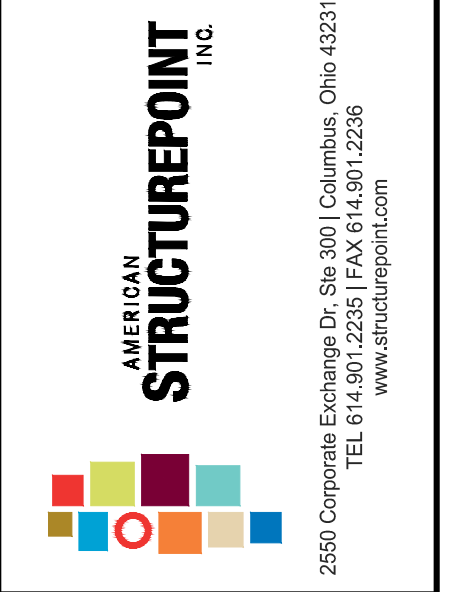
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PLOT SCALE: 1:1 EDIT DATE: 2/22/24 3:44 PM EDITED BY: PTATARKOV DRAWING FILE: O:\2023\01284\DRAWING\CIVIL\CONSTRUCTION DOCUMENTS\C602\01284 SAN PRF.DWG



SANITARY SEWER PROFILE STRUCTURE 1-6
SCALE: H:1"=40', V:1"=5'

NOTE:
DOUG MALONE (SD1) SHALL BE CONTACTED AT 859-578-6749
AT LEAST 72 HOURS PRIOR TO INSTALLATION OF THE PUBLIC
SANITARY SEWER.



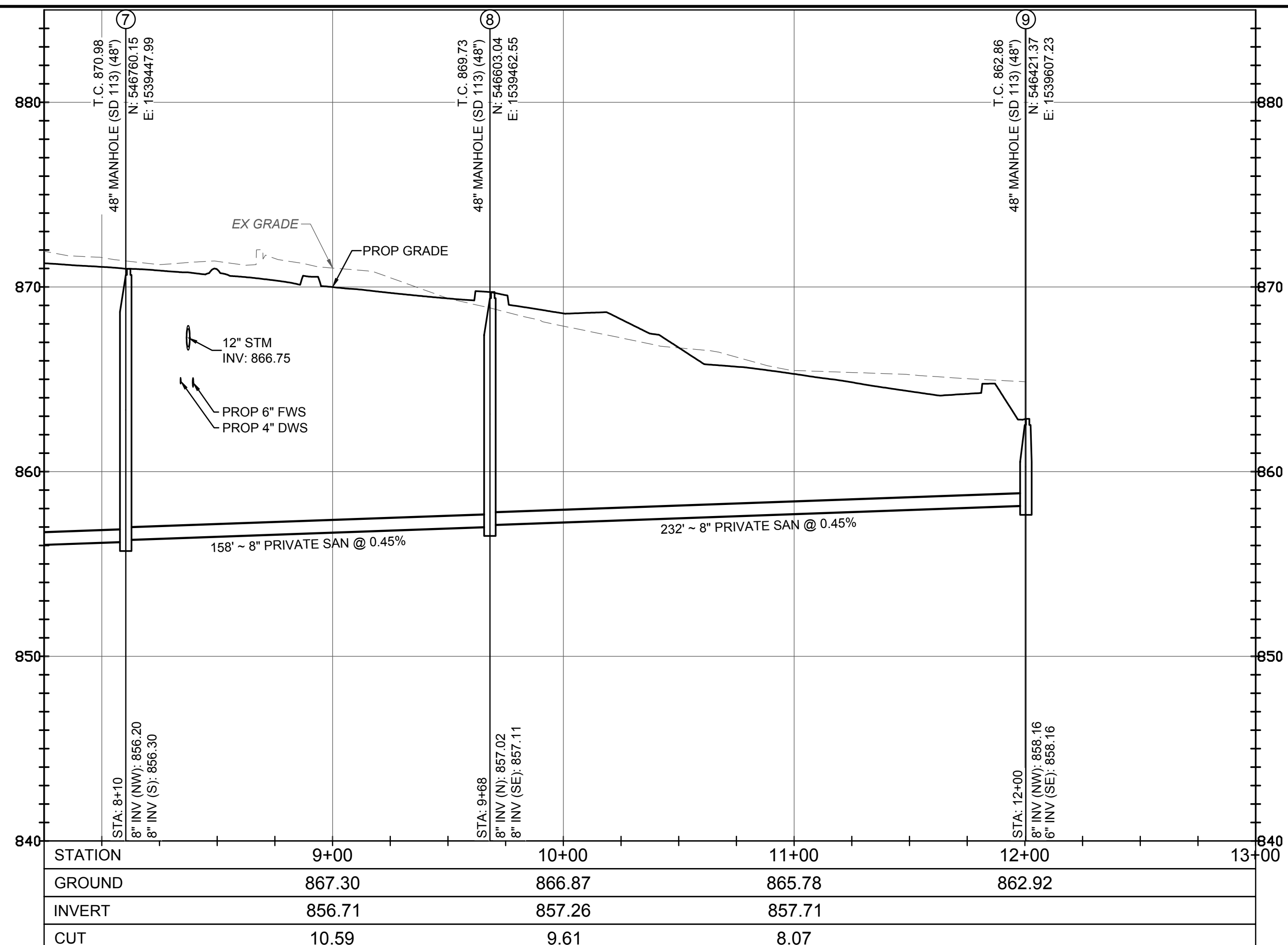
SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
SANITARY PROFILES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C602



NOTE:
DOUG MALONE (SD1) SHALL BE CONTACTED AT 859-578-6749
AT LEAST 72 HOURS PRIOR TO INSTALLATION OF THE PUBLIC
SANITARY SEWER.



SANITARY SEWER PROFILE STRUCTURE 7-9
SCALE: H:1"=40', V:1"=5'

"DETAIL A"

MANHOLE CONSTRUCTED ON EXISTING SEWER (DOGHOUSE)
N.T.S.

NOTES:

- BEFORE POURING CONCRETE ASSURE DOGHOUSE STABILITY, LEVEL, AND PLUMB.
- USE SOLID CONCRETE BLOCKING FOR DOGHOUSE SUPPORT.
- WAIT A MIN. OF 24 HOURS AFTER POUR BEFORE BACKFILL PLACEMENT.
- BENCH TO HAVE SMOOTH FINISH WITH SLOPE OR FALL TO THE SPRINGLINE.
- CUT PIPE AT THE SPRINGLINE.
- POUR/INSTALL 4,000 PSI CONCRETE 12-INCHES ABOVE THE HIGHEST PIPE.
- TWO ROWS OF GREENSTREAK HYDROTITE WATERSTOP OR APPROVED EQUAL SHALL BE WRAPPED AROUND THE ENTIRE BASE OF THE DOGHOUSE STRUCTURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS (REFER TO DETAIL A).
- BOOT MAY BE USED IF CONCRETE IS POURED A MINIMUM OF 12" BELOW THE INCOMING PIPE.

REVISION TABLE:

REVISION	BY	DATE
1	ADD WATERSTOP, CONCRETE	01-18-09

SANITATION DISTRICT NO. 1
1045 Eaton Drive
FT. Wright, Kentucky 41017
Ph: (859) 578-7460
Fax: (859) 331-2436

DATE: MARCH 2010
STANDARD DRAWING NO.: 106

STANDARD MANHOLE
N.T.S.

NOTES:

- IF THE SLOPE OF THE INCOMING SEWER EXCEEDS 10% FROM THE HORIZONTAL, A FITTING SHALL BE USED OUTSIDE THE MANHOLE WALL TO FACILITATE A MORE PERPENDICULAR CONNECTION TO THE MANHOLE WALL. THE USE OF THIS FITTING IS TO BE EVALUATED ON A CASE BY CASE BASIS BY SD1 ENGINEERS.
- PRECAST MANHOLES SHALL BE INSTALLED PER SECTION 02606.
- BENCHING SHALL BE SHAPED TO MAINTAIN A SMOOTH TRANSITION OF FLOW FOR PIPE ANGLES BETWEEN 90 AND 180 DEGREES, AS REFERENCED TO THE DOWNSTREAM FLOWLINE. NO ANGLES LESS THAN 90 DEGREES WILL BE ALLOWED BETWEEN INCOMING AND OUTGOING PIPES IN MHS.

REVISION TABLE:

REVISION	BY	DATE

SANITATION DISTRICT NO. 1
1045 Eaton Drive
FT. Wright, Kentucky 41017
Ph: (859) 578-7460
Fax: (859) 331-2436

DATE: AUGUST 2010
STANDARD DRAWING NO.: 113

DROP MANHOLE
N.T.S.

NOTES:

- PERMIT FEE AND INSPECTION REQUIRED.
- DROP CONNECTION TO BE MADE BELOW CONE SECTION.
- DROP CONNECTION SHALL NOT INTERFERE WITH MANHOLE STEPS.
- DROP CONNECTION MUST NOT DISTURB INTEGRITY OF JOINTS.
- LATERAL TAP IN MANHOLE WALL SHALL BE CORE-DRILLED AND A PRESSURE FITTED BOOT WITH STAINLESS STEEL BANDS USED TO MAKE A WATER TIGHT SEAL.
- ALL NOTES ON STANDARD DRAWING 113 SHALL APPLY.

REVISION TABLE:

REVISION	BY	DATE

SANITATION DISTRICT NO. 1
1045 Eaton Drive
FT. Wright, Kentucky 41017
Ph: (859) 578-7460
Fax: (859) 331-2436

DATE: AUGUST 2018
STANDARD DRAWING NO.: 114

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION

IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	2/5/2024
DRAWN BY:	HSR
CHECKED BY:	AWO
JOB NUMBER:	2023.01284

C603

PLOT SCALE: 1"=40' DATE: 2/22/24 3:44 PM EDITED BY: PTATARKOV DRAWING FILE: C:\2023\01284\DWG\DRAWINGS\CIVIL\CONSTRUCTION\DOCUMENTS\C603\23.01284 SAN PRF.DWG

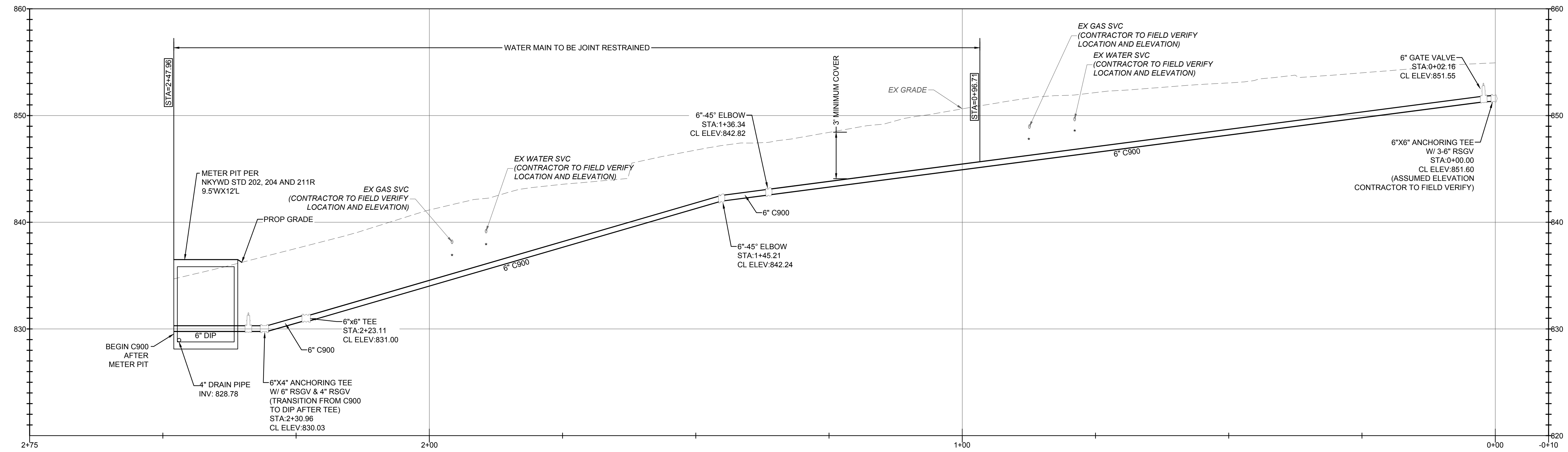
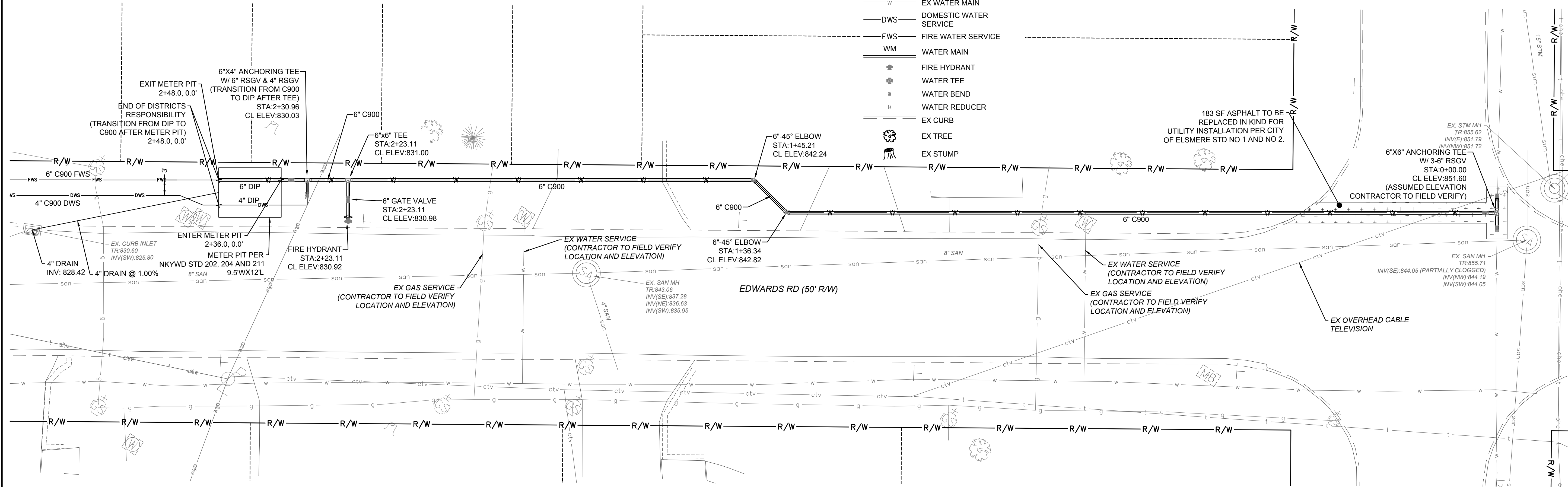
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UTILITY LEGEND

- g EX GAS
- EX GAS SERVICE VALVE
- san EX SANITARY GRAVITY
- EX SANITARY MANHOLE
- ctv EX CABLE TELEVISION
- ohc EX OVERHEAD ELECTRIC
- stm EX STORM SEWER
- w EX WATER MAIN
- DWS DOMESTIC WATER SERVICE
- FWS FIRE WATER SERVICE
- WM WATER MAIN
- FIRE HYDRANT
- WATER TEE
- WATER BEND
- WATER REDUCER
- EX CURB
- EX TREE
- EX STUMP

NOTE

- MAINTAIN 18" MIN VERTICAL SEPARATION FROM UTILITIES
- WATER MAIN INSTALLATION SHALL COMPLY WITH NKYWD STD DWGS 100-100G



WATER MAIN EXTENSION
SCALE: H:1"=10', V:1"=5'



SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
WATERLINE PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C606

Table with 2 columns: Specifications (left) and Revisions/Approvals (right). Specifications include E. Tracing Wire, F. Fittings, 2.02 POLYETHYLENE WRAP, 2.03 VALVES, A. GATE VALVES, B. TAPPING SLEEVE AND VALVES, C. VALVE STEM EXTENSIONS, 2.04 VALVE BOXES, 2.05 FIRE HYDRANTS, 2.06 PRESSURE REDUCING VALVES, 2.07 AIR RELEASE VALVES AND/OR TAPS, 2.08 STEEL CASING PIPE, and PART III - INSTALLATION OF WATER MAINS AND APPURTENANCES. Approvals include N. KY. WATER DISTRICT SPECIFICATIONS, DRAWN BY SAR, APPROVED, DATE 2/1/2021, and STANDARD DRAWING NO. 100-D.

Table with 2 columns: Specifications (left) and Revisions/Approvals (right). Specifications include interior of pipe cleaning, 3.02 CONTRACTORS RESPONSIBILITY, 3.03 HANDLING, 3.04 TRENCHING, GRADE AND COVER, 3.05 TRENCH EXCAVATION, 3.06 BOTTOM PREPARATION, 3.07 UNSTABLE SUB-GRADE MATERIAL, 3.08 UNSTABLE SUB-GRADE, 3.09 PIPE LAYING, 3.10 PIPE CUTTING, 3.11 PUSH-ON JOINTS, 3.12 MECHANICAL JOINTS, 3.13 RESTRAINED JOINTS, 3.14 SETTING VALVES, 3.15 SETTING FIRE HYDRANTS, 3.16 CROSS-COUNTRY WATER MAINS, 3.17 THRUST BLOCKING, 3.18 TRENCH BACKFILL TO 12" OVER PIPE BARREL, 3.19 REMAINING TRENCH BACKFILL IN NON-PAVEMENT AREAS, and 3.20 REMAINING TRENCH BACKFILL IN EXISTING PUBLIC ROADWAYS. Approvals include N. KY. WATER DISTRICT SPECIFICATIONS, DRAWN BY SAR, APPROVED, DATE 2/1/2021, and STANDARD DRAWING NO. 100-F.

Table with 2 columns: Specifications (left) and Revisions/Approvals (right). Specifications include 2.04 VALVE BOXES, 2.05 FIRE HYDRANTS, 2.06 PRESSURE REDUCING VALVES, 2.07 AIR RELEASE VALVES AND/OR TAPS, 2.08 STEEL CASING PIPE, and PART III - INSTALLATION OF WATER MAINS AND APPURTENANCES. Includes a table for Nominal Diameter Casing Pipe with columns for Normal Wall and Nominal Diameter Casing Pipe. Approvals include N. KY. WATER DISTRICT SPECIFICATIONS, DRAWN BY SAR, APPROVED, DATE 2/1/2021, and STANDARD DRAWING NO. 100-E.

Table with 2 columns: Specifications (left) and Revisions/Approvals (right). Specifications include 3.09 PIPE LAYING, 3.10 PIPE CUTTING, 3.11 PUSH-ON JOINTS, 3.12 MECHANICAL JOINTS, 3.13 RESTRAINED JOINTS, 3.14 SETTING VALVES, 3.15 SETTING FIRE HYDRANTS, 3.16 CROSS-COUNTRY WATER MAINS, 3.17 THRUST BLOCKING, 3.18 TRENCH BACKFILL TO 12" OVER PIPE BARREL, 3.19 REMAINING TRENCH BACKFILL IN NON-PAVEMENT AREAS, and 3.20 REMAINING TRENCH BACKFILL IN EXISTING PUBLIC ROADWAYS. Approvals include N. KY. WATER DISTRICT SPECIFICATIONS, DRAWN BY SAR, APPROVED, DATE 2/1/2021, and STANDARD DRAWING NO. 100-G.

Table with 3 columns: REVISIONS, SHEET NO., and DESCRIPTION. It is currently empty.

APPROVAL PENDING NOT FOR CONSTRUCTION IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

Table with 2 columns: Field Name and Value. Values include DATE: 2/5/2024, DRAWN BY: HSR, CHECKED BY: AWO, and JOB NUMBER: 2023.01284.

C608

3.21 **DISINFECTION** New or relocated water mains shall be thoroughly disinfected in accordance with 401 KAR Chapter 8:150 Section 4 (1) upon completion of construction and before being placed into service. To disinfect the new or relocated lines, the Utility shall use chlorine or chlorine compounds (disinfectants) in such amounts as to produce an initial disinfectant concentration of at least fifty (50) ppm and a residual disinfection of greater than or equal to (≥) twenty-five (25) ppm at the end of twenty four (24) hours. The line disinfection shall be followed with thorough flushing and the lines shall be placed into service if, and only if, coliform monitoring of the line does not show the presence of coliform. If coliform is detected, repeat flushing of the line and coliform monitoring. If coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of coliform. The application shall be as approved by the District and in accordance with AWWA C651 and applicable Ky. Division of Water requirements. The presence or absence of total coliform monitored by sampling and analysis as needed shall be determined for the new or relocated water main(s). Samples shall be taken at connection points to existing lines at one (1) mile intervals and at dead ends, and from each branch of the new or relocated water main. Sample bottles shall be clearly identified as "special" construction tests. For new construction projects, the distribution system, using the most expedient method, shall maintain coliform test results. Chlorinated water resulting from disinfection of project components shall be disposed in a manner which does not violate 401 KAR 10:030. The contractor shall be responsible for de-chlorination of the disinfection water. All non-disinfected fittings used for tie-ins or repairs shall be cleaned and swabbed with a hypochlorite disinfecting solution prior to installation.

3.23 **Cross Connections** Cross connections shall not be allowed, in accordance with 401 KAR 8:020.

A. **TABLET METHOD** Calcium hypochlorite tablets shall be installed in each length of pipe to insure a sufficient dosage of 50 ppm based on the following table:

Pipe Diameter	Tablets per Length
6"	2 ea. -5 gram tablets
8"	4 ea. -5 gram tablets
10"	6 ea. -5 gram tablets
12"	8 ea. -5 gram tablets
16"	14 ea. -5gram tablets

The tablets shall be attached by an adhesive meeting the requirements of NSF/ANSI 61. Tablets shall be attached inside and at the top of the main with approximately equal numbers of tablets at each end of the pipe. Tablets must be water soluble.

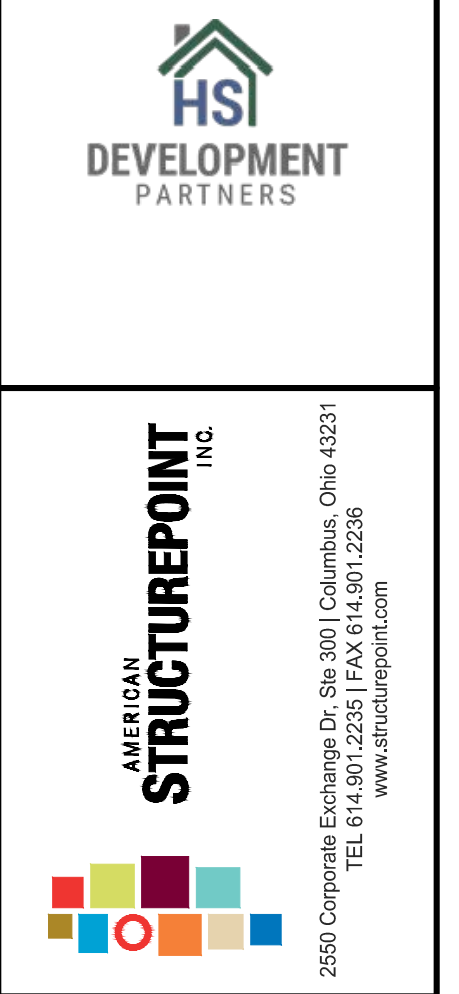
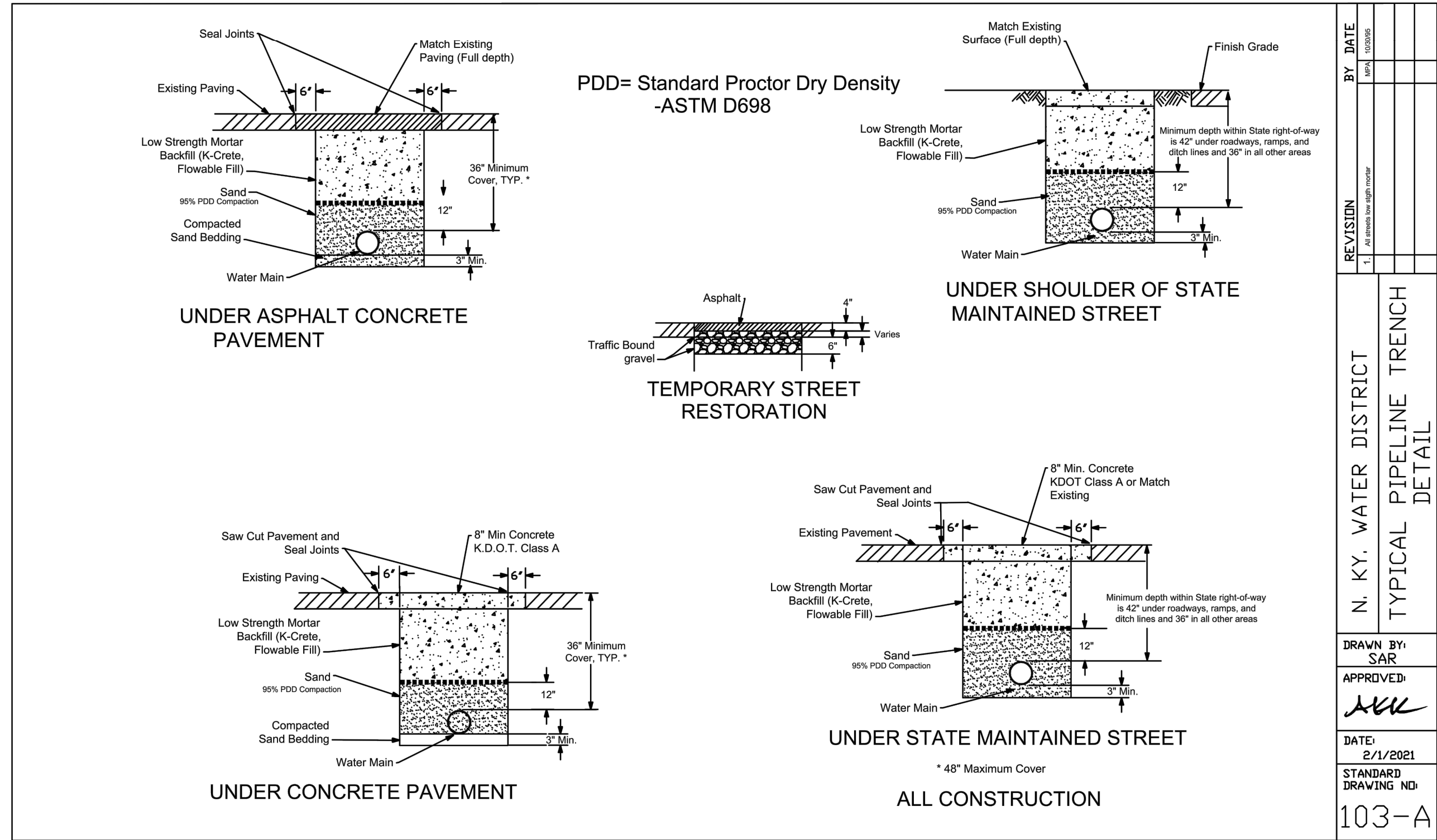
B. **LIQUID CHLORINE METHOD** Disinfection may be done by the addition of suitable amounts of chlorine in the form of liquid sodium hypochlorite as per AWWA B300 to obtain the results as the previous method described. Note: Permission for this method of disinfection shall be obtained by the District prior to construction.

3.22 **PRESSURE TESTING and Leak Detection** All installed pipe shall be monitored for leaks by physical testing, as needed. Pressure Testing must be in accordance with the latest edition of AWWA Standards C600. The water main being tested shall have all air expelled by additional flushing or the installation of taps on high points in the line. The pressure of the water main shall be gradually increased to obtain a minimum pressure of 100 psi over the design pressure (250 psi minimum) at the lowest elevation point of the water main or as directed by the District. The test will be for a two (2) hour duration and will not vary by more than 5 psi. All tests performed for each test section shall be witnessed and approved by a representative of the District, in the event any test is performed without a representative of the District, the Contractor shall be required to test the section again. Leakage is defined as the amount of water used to maintain the test pressure.

REVISION	BY	DATE

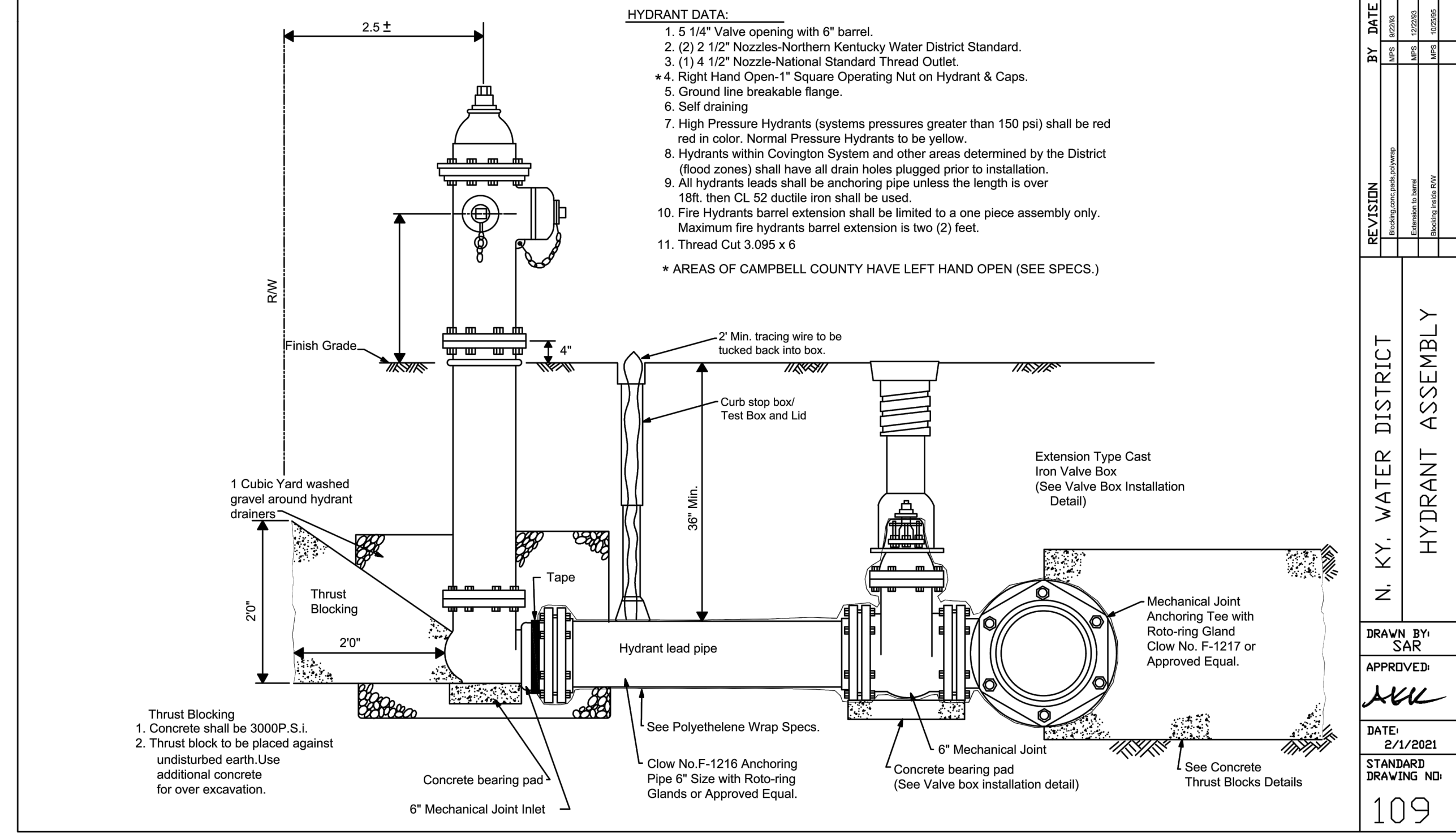
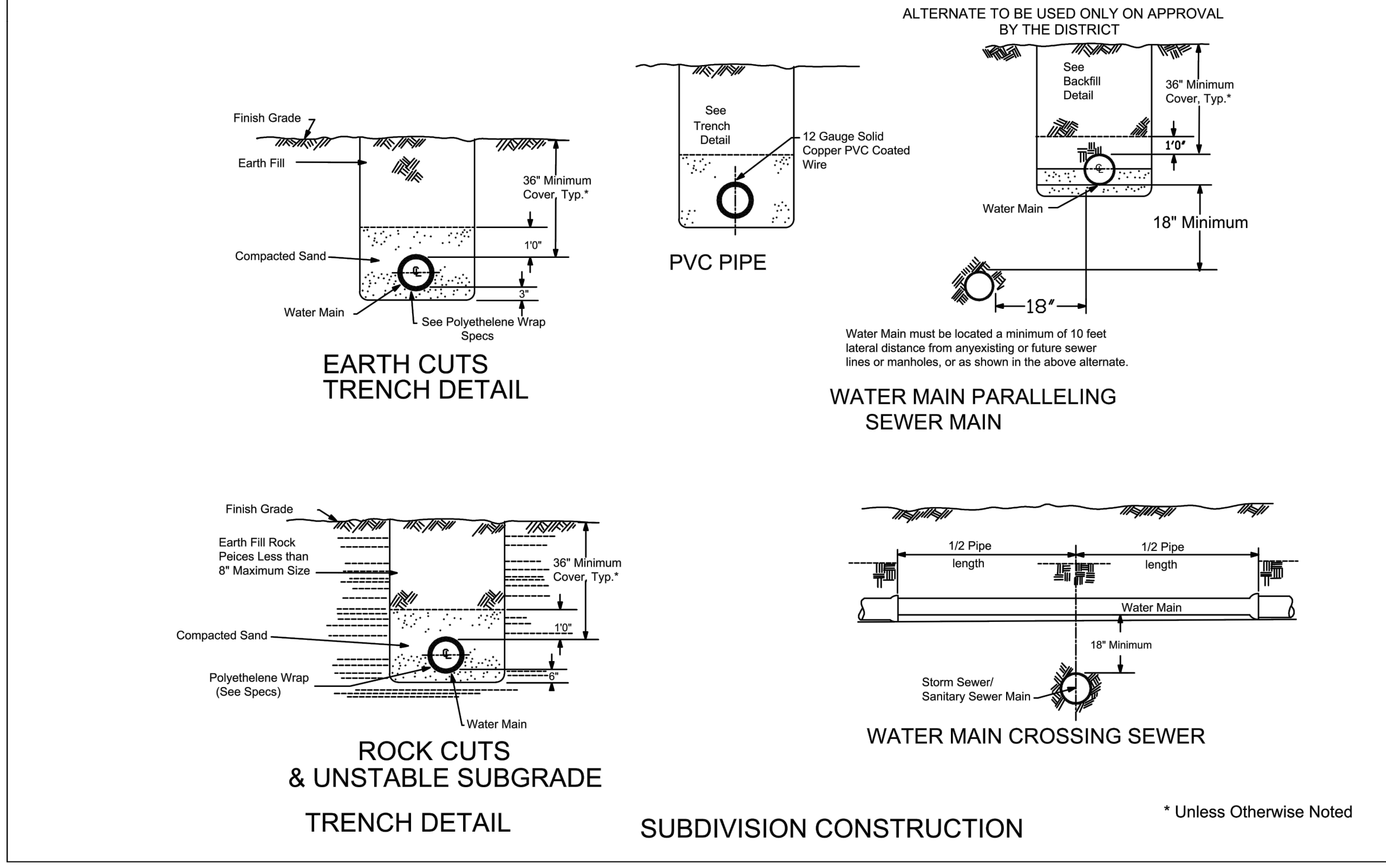
N. KY. WATER DISTRICT
SPECIFICATIONS

DRAWN BY: SAR
APPROVED: [Signature]
DATE: 2/1/2021
STANDARD DRAWING NO: 100-H



SITE CONSTRUCTION PLAN
FOR
SANCTUARY AT EDWARDS
CITY OF ELSMERE, KENTON COUNTY, KENTUCKY

WATERLINE NOTES



REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION

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DATE: 2/5/2024
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CHECKED BY: AWO
JOB NUMBER: 2023.01284

C609

PLOT SCALE: 1"=10' DATE: 2/24/24 3:57 PM EDITED BY: PTA/TARKOV DRAWING FILE: C:\2023\01284\DRAWING\CIVIL\CONSTRUCTION DOCUMENT\SC609\23.01284.WTR.PRF.DWG

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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DATE: 2/5/2024
DRAWN BY: HSR
CHECKED BY: AWO
JOB NUMBER: 2023.01284

C610

DUCTILE IRON AND PVC PIPE WITH DUCTILE IRON FITTINGS

Note: Curb stop box/test box shall not be installed in paved areas.

REVISION	BY	DATE

N. K. Y. WATER DISTRICT
TRACING WIRE
INSTALLATION DETAIL

DRAWN BY: SAR
APPROVED: [Signature]
DATE: 2/1/2021
STANDARD DRAWING NO: 111

PIT CONSTRUCTION SPECIFICATIONS

PART I - GENERAL

1.01 INTRODUCTION Unless modified, deleted, replaced, or otherwise changed, the latest published addition of the following documents shall be the accepted standard for materials and/or procedures for the construction of meter pits:

- Northern Kentucky Water District's Standard Drawings
- Natural Resources & Environmental Protection Cabinet, Division of Water
- Kentucky Public Service Commission Regulations
- American Water Works Association Standards (AWWA)

If a conflict exists between referenced sources, the more restrictive requirements shall prevail. The District shall provide interpretation as requested.

1.02 REQUIREMENTS FOR METER PIT INSTALLATION The following are guidelines for meter pit installations:

A. Meter pit will not be required to be installed if the following conditions can be met:

Firelines- 1. An approved back flow prevention device shall be installed as the first device inside the building on the fire line before any taps or branches -and-
2. The fire department connection shall be located downstream of the approved back flow prevention device -and-
3. The domestic water service is 2" or smaller which will be installed per Standard Drawings #107, 107-A, or 108.

Domestic Services- 2" or smaller domestic water services shall be installed by the District per Standard Drawings #107, 107-A, or 108.

B. Meter pits shall be required to be installed if one or more of the following conditions exists:

Firelines- The fire department connection is required by the authority having jurisdiction to be installed near the public right-of-way. An approved double check assembly shall be required to be installed per Standard Drawing #204, 206, or 207R.
Domestic Services- 3" or larger domestic water services shall be installed per Standard Drawings #205R, 207R, or 208.

1.03 CONTRACTORS RESPONSIBILITY All work performed on any meter pit and/or appurtenances that are owned or anticipated to be owned by the District shall be completed under the direction of the District adhering to an acceptable plan approved by the District. A minimum of 24 hours notice shall be given to the District by the contractor prior to the start of work. If the interruption of service to any customer of the District is necessary, the Contractor shall make arrangements to provide such shutdown and notify District customers at the direction of the District Inspector. One set of District approved plans shall be on the job site during construction. There shall be no deviation from the approved plans without written approval from the District.

1.04 EXISTING PITS Any changes, modifications, or alterations made to an existing pit structure, piping, etc., it shall be brought up to current standards. Compliance subject to the discretion of the Water District.

1.05 PLANS Plans are approved subject to the conditions of compliance with all applicable laws, rules, regulations and standards. The proposed project may be constructed only in accordance with the approved plans. Plans submitted to the District for approval shall have a Ky. Professional Engineer or Certified Fire Suppression Technician stamp and signature. Two sets of plans should be submitted for preliminary review and four sets for final review.

1.06 DESCRIPTION In general the following specifications are minimum requirements as pit design. Construction may be dictated by location, soil conditions, ground water, topography, etc. Additional provisions may be required upon submission for approval.

1.07 ACCESSIBILITY OF PITS Accessibility for maintenance and testing of all meter pits shall be provided. A means of access for maintenance vehicles shall be constructed of a hard, all weather surface at least 10' wide and designed to support the heaviest vehicle, within 15' of the pit.

1.08 WATER MAINS ON PRIVATE PROPERTY Meter pits and appurtenances installed on private property outside of normal conditions which are going to be maintained by the Water District shall have proper documentation provided for all easement areas. See appropriate sections of District's Standards Specifications & Drawings for the Installation of Water Mains for procedures.

1.09 HIGH PRESSURE AREAS Additional requirements may be necessary for high pressure areas (110 psi static pressure or higher) as determined by the District.

1.10 MAINTENANCE PERIOD The Owner shall be responsible for the maintenance of the installed meter pit and appurtenances to District Standards for a period of not less than one (1) year from the date the meter pit is placed in service by the District. Meter pits will be placed in service when the meter pit is 100% completed to District Standards.

1.11 MINIMUM REQUIREMENTS Floor slab shall be 6" thick concrete sloping at 1/8 inch per foot to drain or sump location. Dimensions of slab shall be 4 inches larger all around than outside pit walls. Pit shall be drained by a 4" drain or larger as required, leading to grade or a storm sewer. When a drain is not practical an electric operated sump pump shall be used.

Walls shall be 8" thick concrete. Top slab shall be 8" thick reinforced concrete with #5 bars @6" O.C. maximum, spanning in short direction and #5 bars @18" O.C. maximum, in long direction. Two (2) #5 bars, two (2) feet long are to be placed at 45 degree to each corner of slab openings. Reinforcing shall be placed 1-1/2" clear from the bottom of the slab or inside wall faces. Additional reinforcement may be required.

Pit openings shall have lids as indicated or as approved in traffic areas of a type operable by a single person. Removable aluminum ladders shall be furnished in all pits.

1.12 METER PIT DIMENSIONS Minimum inside pit dimensions shall be: Height - 5 feet; Width - 5 feet; Length - 6 feet.

REVISION	BY	DATE

N. K. Y. WATER DISTRICT
MATERIAL SPECIFICATIONS
FOR PIT CONSTRUCTION

DRAWN BY: SAR
APPROVED: [Signature]
DATE: 2/1/2021
STANDARD DRAWING NO: 201

1.13 QUALITY ASSURANCE

A. Standards: The following publications shall be hereby made a part of these specifications.

- "Specifications for Structural Concrete for Buildings ACI 301-72 (Revised 1975) with Selected ACI and ASTM Referenced, Sp-15(73)" by the American Concrete Institute.
- "Placing Reinforcing Bars, CRSI-WCRSI Recommended Practices" by the CRSI-WCRSI Committee on Bar Placing.
- "Standard Specifications for Road and Bridge Construction by the Kentucky Department of Transportation, Bureau of Hwy. 4. Specifications for the Design and Construction Load-Bearing Concrete Masonry by the National Concrete Masonry Association.

1.14 Or Equal All materials referenced are for design purpose only. Any other materials that are "equal" can be used with prior approval from the District.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Concrete: Ready mixed type meeting K.D.O.T "Class A", 3,500 psi at 28 days compressive strength, 4" maximum slump.

B. Reinforcing Steel: Deformed #5 bars conforming to ASTM A615, A616, or A617, grade 60.

C. Curing Compound: Acrylic based "non-residual" type meeting ASTM C309 Type 1 not less than 18 % to cure, harden and seal concrete.

D. Lid: 48" x 54" double door, aluminum lid with locking padlock bar, centered over the meters, Halliday Products Model #A4854 or approved equal. If padlock bar creates hazard, other locking mechanisms may be considered.

E. Removable Metal Ladder: Removable metal ladder shall be an approved OSHA Type 1 Industrial Heavy, 250 pound aluminum ladder. Ladder must reach from the pit floor and extend into the pit opening. The bottom of the ladder shall be blocked to prevent it from kicking out but still be removable.

F. Waterproofing: The exterior side of the pit walls shall be waterproofed with one coat of one of the following materials applied in accordance with the Manufacturer's recommendations: Thoroseal; U.S.S. Chemical Tarmastic #102; Koppers Bitumastic Super Service Black; Damchex; Amercoat #78; or an approved equal.

Voids between pipes and chamber walls shall be grouted with a hydraulic cement such as Waterplug or an approved equal before waterproofing pit.

G. Waterstop: A waterstop shall be provided in the pit floor to the pit walls.

H. Floor Drain: Raised or beehive dome grate, 4" minimum, similar to Wade #1634; Josam #7324-N; or an approved equal.

I. Pit Drain Line: Cast iron, Schedule 40 PVC, Plastic STM #35 or ductile iron, 4" minimum.

J. Alternate To Pit Drain Line: Electric Submersible Sump Pump, Little Giant, Big John, Stock #3P-639A Model #6-CIA or approved equal. Note: This alternative shall only be used when a drain line is impractical as determined by the District. (See drawing #202 & Part 4 of Pit Specifications)

K. Packaged, Prefab Meter Vaults: Packaged, prefab meter vaults are acceptable with approval from the Water District.

PART 3 - EXECUTION

3.01 WORKMANSHIP Earth cuts may be used for forms of base slab provided vertical sides are kept true and sharp. All embedded items, reinforcing, piping, etc. shall be secured in place prior to placing of the concrete. Concrete shall be protected from loss of moisture for a curing period of at least 7 days. All concrete shall be deposited within 1-1/2 hours following the initial mixing of water and cement. Wall finish may be a rough form finish. Top slab finish shall be wood float with tooled edges.

PART 4 - ELECTRIC SUMP PUMPS

4.01 DESCRIPTION In general the following specifications are a minimum requirements for the design and installation of Electric Submersible Sump Pumps in meter pits where a normal drain line is impractical.

4.02 ELECTRIC WORK All electric work shall be installed according to the National Electric Code and all other applicable codes. All work shall be inspected by an Electrical Inspector and certification provided to the District.

4.03 RESPONSIBILITY The property owner is responsible for providing continuous electric service for the electric sump pump at the owner's expense. The property owner shall be responsible for the maintenance and upkeep of all electrical boxes, conduit, circuit breaker box, circuit breaker, outlet and wiring outside the pit.

4.04 MATERIALS

A. Electric Submersible Sump Pump: Electric sump pump shall be U.L. Listed, Little Giant, Stock #3P639, Model #6-CIA.

B. Electric Junction Box: Water resistant, U.L. Listed, P.V.C electrical box shall be installed on the inside of the pit on the wall closest to the sump pump nearest the ceiling.

C. Electrical Piping: Electric piping shall be U.L. Listed for underground use, rigid or plastic installed at least 18" below grade.

4.05 INSTALLATION

A. Sump Pump Hole: A 4" deep hole shall be provided in the floor of the pit.

B. Discharge Piping: Piping for the water discharge from the electric sump pump shall be plastic or copper. Minimum piping size shall be 1 1/2". A 1/8" hole shall be bored above the check valve of the discharge pipe if freezing temperatures will affect the pipe.

C. Water Discharge: Water discharge shall be directed into a storm sewer or drainage ditch, if this is impractical, water discharge shall be directed onto a 16" x 16" concrete pad.

D. Electric Service Line: The electric line to the pit shall be only used for the pit sump pump, no other electrical taps shall be made on this line.

E. Manufacturer Instructions: Manufacturer's instructions should be followed for installation.

REVISION	BY	DATE

N. K. Y. WATER DISTRICT
MATERIAL SPECIFICATIONS
FOR PIT CONSTRUCTION

DRAWN BY: SAR
APPROVED: [Signature]
DATE: 2/1/2021
STANDARD DRAWING NO: 201-A

DRAWING NOTES

- (2) #5 Reinforcing Bars, 26" Long @ 45 Each Corner of Lid or Pit Opening
- Removable Aluminum Ladder Within Pit.
- Lid In Top Slab To Be Centered Over Meter(S). Lids Shown Are For Non-Traffic Area Locations.

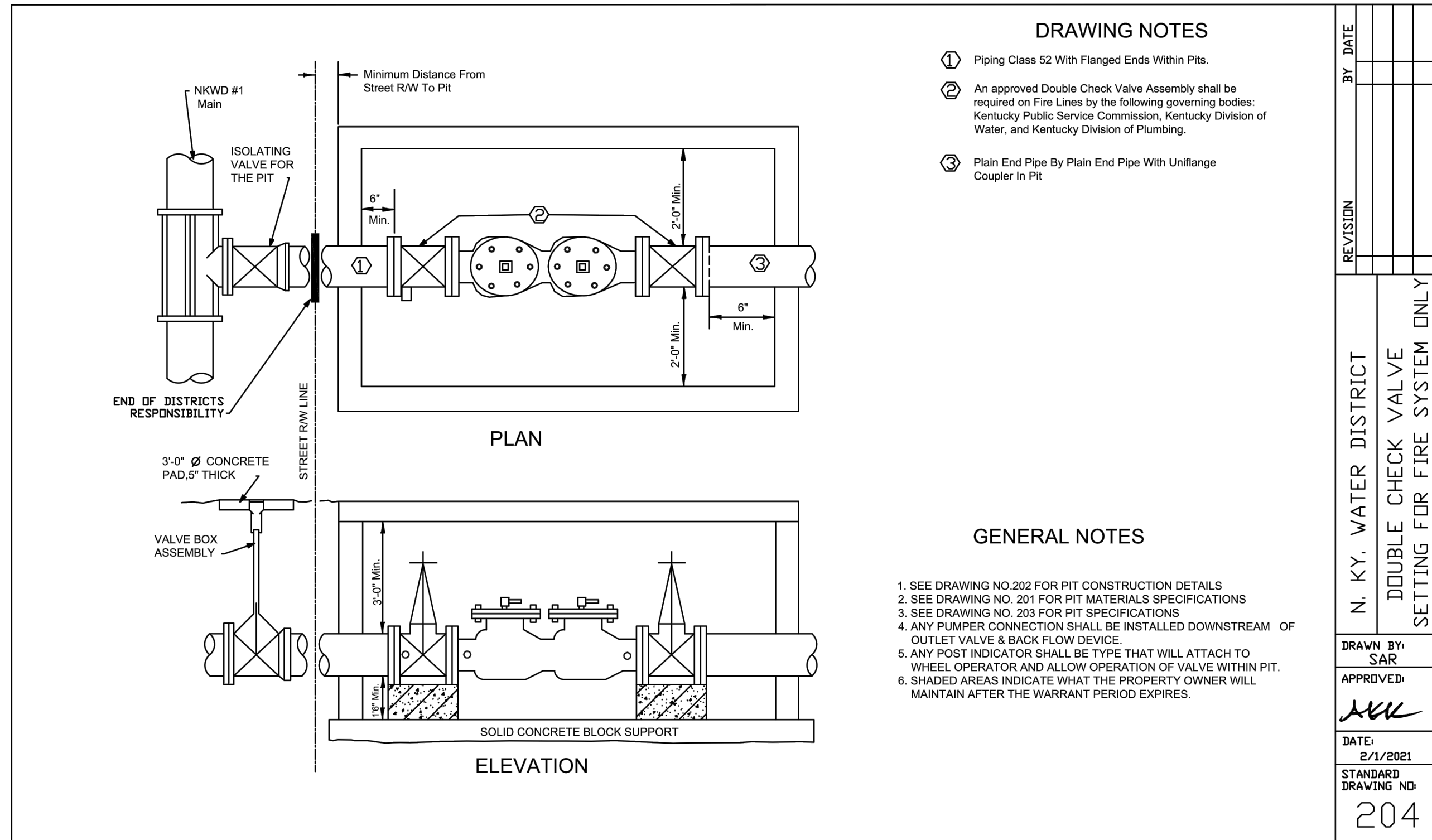
Lids Within Traffic Areas Shall Be Guarded With Approved Post Surrounding The Pit Or Lid, Or The Lid Shall Be Adequate To Support The Imposed Weight And Be Operated By A Single Person As Approved By K.C.W.D. #1.

REVISION	BY	DATE

N. K. Y. WATER DISTRICT
TYPICAL PIT DETAIL

DRAWN BY: SAR
APPROVED: [Signature]
DATE: 2/1/2021
STANDARD DRAWING NO: 202

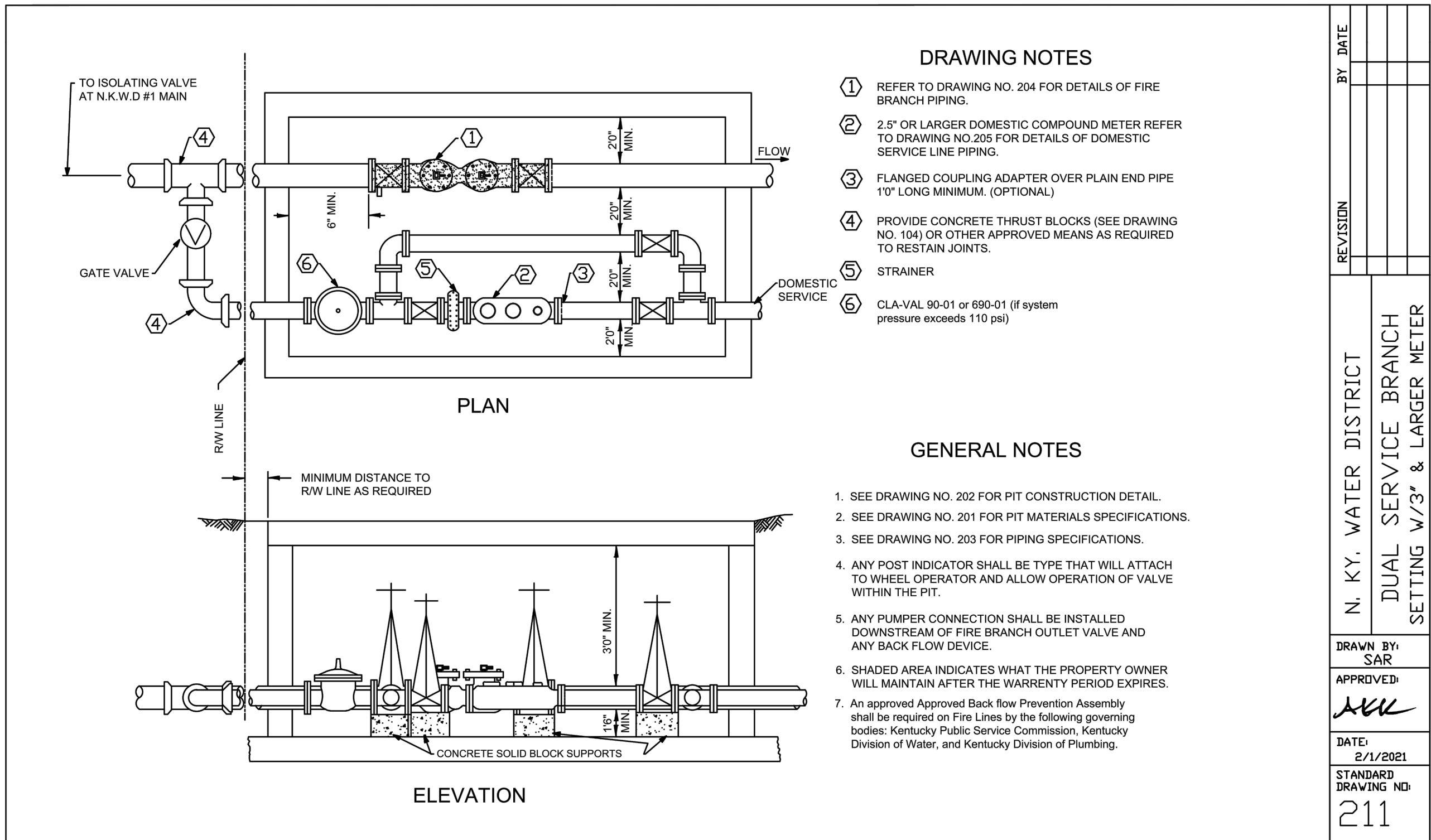
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REVISION	BY	DATE

N. KY. WATER DISTRICT
DOUBLE CHECK VALVE
SETTING FOR FIRE SYSTEM ONLY

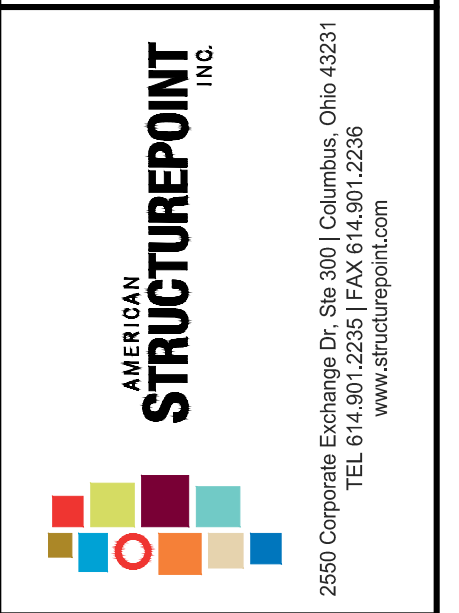
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 APPROVED: [Signature]
 DATE: 2/1/2021
 STANDARD DRAWING NO: 204



REVISION	BY	DATE

N. KY. WATER DISTRICT
DUAL SERVICE BRANCH
SETTING W/3" & LARGER METER

DRAWN BY: SAR
 APPROVED: [Signature]
 DATE: 2/1/2021
 STANDARD DRAWING NO: 211



SITE CONSTRUCTION PLAN
 FOR
SANCTUARY AT EDWARDS
 CITY OF ELSMERE, KENTON COUNTY, KENTUCKY
WATERLINE NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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C611