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ERLANGER PUBLIC WORKS FACILITY

MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE
ERLANGER, KY

PCA ARCHITECTURE
906 MONMOUTH STREET
NEWPORT, KY 41071
www.PCA-ARCH.com
859.431.8612
ARCHITECT

NOT FOR CONSTRUCTION

GENERAL PROJECT NOTES – DESIGN-BUILD SPECIFICATION

DIVISION 21 – FIRE SUPPRESSION

210000 – FIRE SUPPRESSION
1. The Sprinkler Contractor is responsible, and shall assume all costs, for the design of the sprinkler system (including stamped and signed approval drawings and hydraulic calculations) and obtaining all permits, inspections & fees.
2. Sprinkler system shall comply with all current governing codes and authorities including the National Fire Protection Association.
3. Piping shall be concealed in all finish occupied spaces. All exposed or concealed piping shall be held as high as possible unless noted otherwise and coordinated with all other trades.
4. Do not route piping directly above any light fixtures.
5. All openings around piping passing through walls, floors, or ceiling shall be completely sealed with fire resistive materials. Provide fire resistive material to stop passage of fire and smoke to match rating of fire rated walls or floor/ceilings being penetrated.
6. Provide cast brass chrome plated split ring type escutcheons where piping penetrates walls, ceilings, and floors whether in finished areas or not.
7. Provide sprinkler head type per the following locations:
   A. Ceilings of occupied areas – concealed head with white cover
   B. Unoccupied areas – cast brass
   C. Sidewall - chrome
8. Locate heads in center of acoustical tiles in at least one direction and no closer than 3" from the suspension grid in the other direction.
9. Provide support within 6 inches of sidewall sprinklers.

DIVISION 22 – PLUMBING

220000 – PLUMBING
1. Do not install any hot or cold water piping in exterior walls.
2. All exposed or concealed piping shall be held as high as possible unless otherwise noted and coordinate with all other trades.
3. All piping shall be run parallel or perpendicular to building walls and framing system. All vertical runs shall be held against walls, columns, etc. as possible to permit making of pipe joints.
4. All piping shall be concealed in finish and occupied spaces whenever possible.
5. All openings around piping passing through walls, floors, or ceilings shall be completely sealed with fire resistive materials. Provide fire resistive material to stop passage of fire and smoke to match rating of the fire rated walls or floor/ceilings being penetrated.
6. Insulate all domestic water piping, valves, and fittings with 1" thick Armaflex or equal per manufacturer's instructions. Insulation on all piping passing through fire rated construction shall be non-combustible complying with governing codes.
7. Provide ADA required insulation on exposed sanitary piping for sinks.
8. All interior water piping shall be Type "L" copper hard temper tubing, solder fittings to match.
9. Sanitary and vent lines shall be schedule 40 PVC with compatible fittings.
10. Provide one piece chrome plated brass escutcheon plates with set screw around all exposed pipes passing through walls, ceilings, or millwork.
11. Provide shut-off valves at each plumbing fixture.
12. Each piece of equipment, apparatus, piping, or conduit suspended from the ceiling or mounted above the floor level shall be provided with suitable structural support, pipe stand, platform or carrier in accordance with best recognized practice.
13. Hangers for all piping shall be clevis or split ring type, galvanized steel with provisions for vertical adjustment. Hangers supporting copper tubing shall be copper plate steel, brass, or bronze.
14. Provide water hammer arresters above ceiling at inlets to quick closing valves (water closets, urinals) and according to manufacturer's recommendations.
15. Provide pan under each water heater with drain line to nearest drain.
16. Hose bib/wall hydrant to be freezeproof and key operated.
17. Washers and water heaters shall have an overflow plan piped to positive drain or into DWV.

DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING

230000 – GENERAL REQUIREMENTS
1. Mechanical and Plumbing Contractors shall secure and pay for any additional required permits, plan reviews, inspections, tap fees, etc. for their respective scope of work not covered by the general building permit.
2. Mechanical and Plumbing Contractors shall comply with all current applicable codes, standards, and regulations required of all local utility companies, or municipalities and all governmental agencies having jurisdiction.
3. HVAC Contractor shall prepare and pre-coordinate the preparation of their shop drawings with the General, Plumbing, and Electrical Contractors. They shall distribute all necessary transparencies, CAD files, templates, etc. of the duct layout to the aforementioned Contractors. The HVAC Contractor shall have precedence over all other trades for the assignment of available space allocated for work installation, however all Contractors shall cooperate in working out space conditions to make satisfactory adjustments where required.
4. Mechanical and Plumbing Contractors shall provide access panels for each concealed valve, control damper, shut-off valve or other device requiring service.
5. Where any work penetrates waterproofing or roofing the respective Contractor shall furnish all necessary sleeves, caulking, and flashing required to make penetration water tight.
6. All HVAC work shall be accomplished in accordance with the latest provisions of ASHRAE Standard 90, International Energy Conservation Code, and National Fire Protection Association.
7. Mechanical Contractors shall locate and install all equipment so that it may be serviced, and maintained as recommended by the manufacturer. Allow ready access and removal of the entire unit and/or parts such as valves, filters, fan belts, etc.
8. All major HVAC equipment shall have a minimum five year warranty.
9. Ducts shall be galvanized sheet metal of standard gauges as shown in "Low Velocity Duct Construction Standards" SMACNA. All elbows shall be either full radius or with turning vanes. Full radius elbows shall be as shown in SMACNA Fig. 2-1B.
10. Construction, installation, and support of all ductwork shall conform to the latest edition of SMACNA "Low Velocity Duct Construction Standards".
11. Flexible duct to diffusers (maximum 6'-0" length) shall be pre-insulated 1 inch thick ¾ pound density fiberglass sheathed with air-tight vapor barrier. Install sheet metal elbow at all diffusers.
12. Provide hinged access door in duct adjacent to all fire, smoke, and control dampers. Access doors shall also be provided on each side of duct coils and downstream side of any VAC boxes and CAV boxes. Access doors for rectangular ducts shall be 16"x16" where possible or install as large an access door as height permits by 16 inches in length.
13. All ductwork shall be covered and kept clean until unit is operational.
14. Install trap at evaporator coil drain. Condensate drain piping shall be extended to the nearest drain. Piping shall be standard weight PVC pipe and fittings.
15. All new ductwork shall be run concealed and shall be insulated and installed when in uninsulated area. Provide gypsum board bulkhead enclosure where necessary to conceal ductwork in finished spaces. Bulkhead locations and size shall be approved by the Architect prior to installation of ductwork.

DIVISION 26 – ELECTRICAL

26000 – ELECTRICAL
1. The Electrical Contractor shall obtain and pay for all required permits, fees, and inspections required of their work.
2. Electrical Contractor is responsible for design of electrical system including sizing electrical service.
3. All electrical work shall be in compliance with all governing codes, authorities, local utility companies, and National Electric Code.
4. All openings around conduits passing through fire rated walls, floors, or ceiling shall be completely sealed with fire resistive materials. Provide fire resistive material to stop passage of fire and smoke to match rating of fire rated walls or floor/ceilings being penetrated.
5. All wiring, conduit, junction boxes, and electrical boxes shall be concealed in finished and occupied spaces except at existing masonry or concrete walls.
6. Electrical Contractor shall install empty conduit with fish wire and 4 inch box for all required phone and data jacks. Contractor shall coordinate quantity and location of jacks with Owner.
7. Electrical conduit (when used) run exposed shall run parallel or perpendicular to wall, floor, or ceiling framing members in a neat, professional manor. Conduit shall be securely fastened to the building structure. Conduit shall not be supported from ductwork, piping, or ceiling grid systems.
8. Electrical panel(s) shall be sized to be 20 percent higher than the actual building electric load to accommodate future electrical requirements.
9. Flush mounted electrical panels shall have fronts finished with prime coat only, and surface mounted panels shall have factory finished fronts.
10. Electrical Contractor shall provide accurate typewritten circuit directory protected by clear plastic on the inside of the panel door.
11. Light switches, fan switches and thermostats shall have a minimum height of 48" centered on the switch or thermostat face cover.
12. Mounting heights for electrical outlets shall have a minimum height of 16" AFF from the bottom outlet or a maximum height of 48" AFF from the top outlet. If an outlet or switch is obstructed by a base cabinet or countertop, then the maximum height for a switch or outlet shall be 46" AFF.
13. The final electric meter/electric panel location shall not be determined without the prior approval of the Owner/Architect. Do not mount on the front of the building.

MEP REQUIREMENTS

FIRE SUPRESSION
1. MAINTENANCE BUILDING

HEATING
1. MAINTENANCE BUILDING - WASH BAY
   A. RADIANT TUBE / NG
2. MAINTENANCE BUILDING - MAINTENANCE GARAGE
   A. RADIANT TUBE / NG
3. OFFICE BUILDING
   A. MULTIZONE
      a. THERMOSTATS IN ALL OFFICES, CONFERENCE ROOMS, AND SIGN SHOP

COOLING
1. OFFICE BUILDING
   A. MULTIZONE
      a. THERMOSTATS IN ALL OFFICES, CONFERENCE ROOMS, AND SIGN SHOP

FANS
1. MAINTENANCE BUILDING - WASH BAY
   A. THRU WALL EXHAUST
2. MAINTENANCE BUILDING - MAINTENANCE GARAGE
   A. THRU WALL EXHAUST

FLOOR DRAINS
1. MAINTENANCE BUILDING - WASH BAY
2. MAINTENANCE BUILDING - MAINTENANCE GARAGE

LIGHTING
1. SALT BUILDING
   A. 4' OR 8' LED INTERIOR LIGHTS

DRAWING LIST

Sheet Number	Sheet Name
GENERAL	
G1	COVER SHEET
CIVIL	
1	TITLE SHEET
2	GENERAL NOTES
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8	DETAILS- STORM SEWER
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12	WALL DETAILS 1
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14	WALL DETAILS 3
15	EROSION CONTROL PLAN
16	DETAILS- EROSION CONTROL
17	DETAILS- WATER MAIN
18	DETAILS- WATER QUALITY UNIT 1
19	DETAILS- WATER QUALITY UNIT 2
ARCHITECTURAL	
A1	SCHEMATIC SITE
A2	SCHEMATIC MAINTENANCE BLDG
A3	SCHEMATIC MAINTENANCE BLDG
A4	SCHEMATIC OFFICE BLDG
A5	SCHEMATIC OFFICE BLDG
A6	SCHEMATIC SALT BLDG
A7	SCHEMATIC MATERIALS

ERLANGER PUBLIC WORKS FACILITY
MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE
ERLANGER, KY

NO.	DESCRIPTION	DATE
1	RFP DRAWINGS	12/12/2022

COVER SHEET

22-003

G1

PRINT DATE: 12/12/2022 11:55:20 AM

SITE PLAN
PROPOSED PUBLIC WORKS FACILITY

MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE

KENTON COUNTY, KENTUCKY
CITY OF ERLANGER
OCTOBER 26, 2022

REVISED: 12-19-22

SITE DATA

Site Location: MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE, ERLANGER, KY
Total Acreage of Site: 2.553 AC
Disturbed Acreage: 2.52 AC
Property Owner:
CITY OF ERLANGER
505 COMMMONWWEALTH AVENUE
ERLANGER, KY 41018
Parcel ID: 015-10-14-009.00

Current Use: VACANT
Prior Uses: LIGHT WAREHOUSE
Proposed Use: CITY MAINTENANCE FACILITY, ADMINISTRATIVE FACILITY, AND MATERIAL STORAGE FACILITY, AND PROPOSED DRIVEWAYS AND PARKING LOTS

Soil Types: RsB, RsC, FcD

SCOPE OF WORK

Demolish and remove remaining site buildings, pavement, trees, and vegetation; Grade and install utilities and drainage structures and water quality features, and pave new parking lot, including install new retaining walls and fencing, as shown.

SITE ZONING DATA

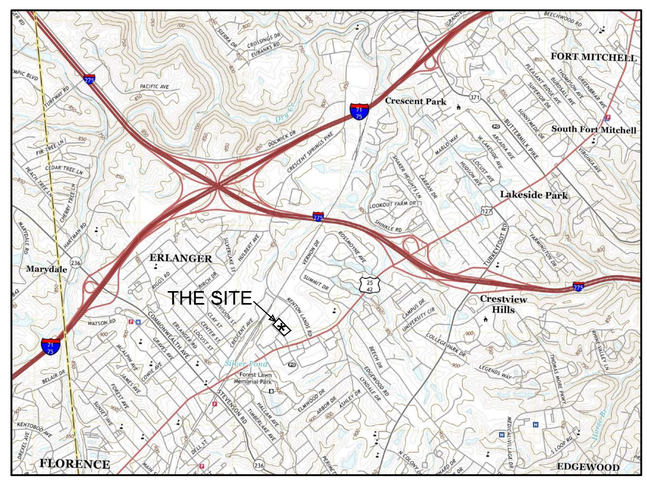
Current Zone: GI
Minimum Lot Size = 1 ACRE
Minimum Frontage = 100'
Maximum Height = 50'
Minimum Front Yard Setback = 50'
Minimum Rear Yard Setback = 25'
Minimum Side Side Yard Setback = 25'

PARKING SUMMARY

Provided ADA Parking = 2 ADA spaces

Provided Parking: = TOTAL= 41 spaces

NOTE-
All retaining walls on the site will be part of the design/build process. Contractor is responsible for design, permitting and construction of the walls.



U.S.G.S.
VICINITY MAP
SCALE 1"=2000'
U.S.G.S. COVINGTON QUAD

KENTUCKY UNDERGROUND PROTECTION, INC.
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-752-6007

SHEET INDEX	
SHEET NO.	DRAWING TITLE
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P:\CITY OF ERLANGER (009)\PUBLIC WORKS FACILITIES SITE MASTER PLAN (21002)\Engineering\DWG\COE-PublicWorksFacility-MasterPlan.dwg, 12/19/2022 2:38:38 PM, _DWG To PDF.pc3

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	4-19-2022	ADT	JHV/JR
2	REVISE PER AGENCY REVIEWVS	11-14-22	ADT	MLB
3	REVISE PER REVIEW	11-21-22	ADT	MLB/JHV
4	REVISE PER REVIEW	12-19-22	ADT	MLB/JHV

JAMES H. VIOX, III
CITY ENGINEER
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

PROP. PUBLIC WORKS BLDG
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

TITLE SHEET

Project No: 100921002	Checked: JHV/BMM/MLB
Date: 10/26/2022	Ref: ME/TMG/ADT

Sheet: 1

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GENERAL NOTES:

1. Owner: The City of Erlanger
2. Engineer: James H. Viox, III
   466 Erlanger Road
   Erlanger, KY 41018
3. Water- Northern Kentucky Water District
4. Sanitary Sewer - Sanitation District No. 1.
5. Storm Sewer - City Of Erlanger.
6. Gas - Duke Energy.
7. Electric - Duke Energy.
8. Telephone - Cincinnati Bell.
9. Cable - Spectrum.
10. This site does not lie within the FEMA 100 yr. flood plain.
11. The Contractor shall coordinate, with the City of Erlanger, the closure of roads, detours and approved traffic control devices
12. Gas, telephone, and any electric utility lines to be adjusted/relocated by utility owner
13. SD1 shall be notified at least 72 hours prior to land disturbing activities.

GENERAL NOTES

1. LOCATION OF UTILITIES & STRUCTURES, BOTH SURFACE AND SUB-SURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF DESIGN, AND ARE NOT NECESSARILY COMPLETE OR CORRECT. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLAN OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR RESTORATION OF SAME TO THE SATISFACTION OF THE ENGINEER OR APPROPRIATE AUTHORITY.
2. CONTRACTOR IS RESPONSIBLE FOR EXPOSING UNDERGROUND UTILITIES AS DIRECTED BY THE ENGINEER PRIOR TO CONSTRUCTION STAKING TO VERIFY EXACT DEPTH OF UTILITIES.
3. IT SHALL BE THE FULL AND COMPLETE RESPONSIBILITY OF THE CONTRACTOR TO MEET AND COMPLY WITH SAFETY AND REQUIREMENTS AND REGULATIONS AS ESTABLISHED BY O.S.H.A. OR ANY OTHER REGULATORY BODY. THE OWNER AND ENGINEER WILL NOT PERFORM ANY SAFETY COMPLIANCE INSPECTIONS AS THE CONTRACTOR HAS ACCEPTED FULL AND COMPLETE RESPONSIBILITY FOR PERFORMING SUCH INSPECTIONS FOR COMPLIANCE TO THE REGULATIONS. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM ANY LOSS, EXPENSE, FINE, OR SUIT, INCLUDING ATTORNEY'S FEES, ARISING OUT OF ANY SAFETY VIOLATION SUITS BROUGHT BY INJURED PERSONS AND/OR FINES LEVIED BY O.S.H.A. OR ANY OTHER REGULATORY BODY, AS RESULT OF THE CONTRACTOR'S WORK.

UTILITY NOTES

1. Water – All water main from the public main to the meters is to be per NKWD specifications. All water main from the meter pit to the building is to be per KY plumbing code. Contractor is responsible for all coordination, permits, and fees related to the water services.

2. Sanitary Sewer – All sanitary sewer is to be per Sanitation District No. 1 specifications. Contractor is responsible for all coordination, permits, and fees related to the sanitary sewer services. City has applied and obtained a Reservation of Capacity for this project, but all other permits required for sanitary sewer are the responsibility of the contractor.

3. Storm Sewer – All storm sewer is to be per Sanitation District No. 1 specifications. Contractor is responsible for all coordination, permits, inspection, and fees related to the storm sewer construction. City has applied and obtained a KPDES NOI and a Land Disturbance Permit for this project, but all other permits required for the installation of the storm sewer are the responsibility of the contractor.

4. Dry Utilities (Gas, electric, communications, etc.) – Contractor is responsible to coordinate, permit, and install services per the local utility requirements.

Erosion Control Notes:
A copy of the Kentucky Pollutant Discharge Elimination System General Permit KYR10 by which the operator is covered can be found on the website: http://water.ky.gov. Any questions concerning the general permit and its requirements should be directed to the Surface Water Permits Branch of the Kentucky Division of Water.
PH: (502)564-3410
It is solely the contractor's responsibility to adhere to the requirements of the KYR10 General Permit and implement the Erosion Control Plan Best Management Practices (BMPs) outlined in the Storm Water Pollution and Prevention Plan (SWPPP) book. The contractor shall provide a Kentucky Erosion Prevention and Sediment Control (KEPSC) program qualified inspector to routinely conduct site inspections and complete required documentation in the SWPPP book, per KYR10. It shall be understood that the SWPPP book is a living document, and BMPs shall be amended as needed to provide erosion control and good housekeeping on an evolving construction site, and shall be used throughout the length of the construction project until the site is permanently stabilized, equipment has demobilized, and a Notice of Termination has been filed with the Kentucky Division of Water.

DUKE ENERGY

1. DANGER - CONTRACTOR SHALL CONTACT THE COMPANY PRIOR TO EXCAVATION IN VICINITY OF ELECTRIC UNDERGROUND FACILITIES (APPROXIMATE PLAN LOCATION SHOWN) OR WHEN WORKING NEAR OVERHEAD ELECTRIC FACILITIES.
   (A) FOR FIELD INSPECTOR TO LOCATE UNDERGROUND ELECTRIC LINE IN OHIO CALL "OHIO UTILITIES PROTECTION SERVICE" 1-800-362-3764, IN KENTUCKY CALL "KENTUCKY UNDERGROUND PROTECTION, INC." 1-800-752-6007 (AT LEAST 48 HOURS IN ADVANCE), EXCLUDING HOURS SAT., SUN. & STATE LEGAL HOLIDAYS.
   (B) FOR NOTIFICATION OF CONSTRUCTION ACTIVITY NEAR ENERGIZED ELECTRIC FACILITIES CALL 287-3426, OR THE ELECTRIC TECHNICIAN, IF KNOWN, THAT HAS BEEN ASSIGNED TO YOUR PROJECT AT LEAST 48 HOURS IN ADVANCE.
   (C) FOR ADDITIONAL UNDERGROUND ELECTRIC RECORD INFORMATION, CALL 287-2454.
   (D) FOR ELECTRIC ENGINEERING NOTIFICATION, AGREEMENTS AND CORRESPONDENCE, ADDRESS TO MR. RON WOLF, T. & D ENGINEERING, ROOM 467A, DUKE CORP., 139 E. FOURTH STREET, P.O. BOX 960, CINCINNATI, OH 45201-0960.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ELECTRIC FACILITIES DURING CONSTRUCTION.
3. ELECTRIC FACILITIES TO BE KEPT IN SERVICE AT ALL TIMES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING EXISTING ELECTRIC FACILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.
   (A) WHERE HIGH PRESSURE OIL FILLED PIPE TYPE CABLE INSTALLATION ARE EXPOSED OR OTHERWISE INTERFERED WITH BY THE CONTRACTOR, PROTECTION BY THE CONTRACTOR WILL BE REQUIRED AGAINST DAMAGE TO THE COATING SURROUNDING THERMAL SAND ENVELOPE.
   (B) WHERE CONCRETE ENCASED CONDUIT SYSTEMS OR DIRECT BURIED CABLE SYSTEMS ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THE SYSTEM AS NECESSARY AGAINST DAMAGE. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
   (C) WHERE POLES OR ANCHORS THAT SUPPORT OVERHEAD ELECTRIC FACILITIES ARE EXPOSED OR OTHERWISE INTERFERED WITH, THE CONTRACTOR SHALL PROTECT THEM FROM DAMAGE AND PROVIDE TEMPORARY SUPPORT TO INSURE THE INTEGRITY OF THE SYSTEM. AS SOON AS FEASIBLE, THE CONTRACTOR SHALL TAKE ADDITIONAL APPROPRIATE STEPS TO PROVIDE PERMANENT MEASURES TO RESTORE SUPPORT. THE METHODS USED SHALL BE BASED ON CONDITIONS TO BE DETERMINED BY THE UTILITY.
   (D) WHERE THE DEPTH OF EXCAVATION FOR THE PROPOSED WORK IS GREATER THAN FIVE (5) FEET, THE CONTRACTOR SHALL SHEET AND SHORE THE TRENCH TO CONTINUOUSLY MAINTAIN THE SUPPORT OF ELECTRIC FACILITIES AT LOCATION WHERE THE ELECTRIC FACILITIES ARE WITHIN THE ZONE OF INFLUENCE ADJACENT TO THE EXCAVATION AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL.
   (E) ALL DAMAGE TO ELECTRIC FACILITIES AND SERVICES REQUIRING ADJUSTMENTS, RELOCATION AND/OR REPAIRS WILL BE MADE AT CONTRACTOR'S COST.
5. CONTRACTOR SHALL NOT BACK FILL EXPOSED ELECTRIC FACILITIES UNTIL THE COMPANY HAS INSPECTED IT'S FACILITY OR PERFORMED ANY ADJUSTMENTS AND/OR MAINTENANCE THAT MAY BE REQUIRED.

NOTE: SHOULD CONTRACTOR DAMAGE ELECTRIC FACILITIES, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRIC TROUBLE AT 651-4182.
CONTRACTOR SHALL KEEP EVERYONE CLEAR OF DAMAGED ELECTRIC FACILITIES UNTIL COMPANY PERSONNEL ARRIVE AT THE WORK SITE.

NOTE-
All retaining walls on the site will be part of the design/build process. Contractor is responsible for design, permitting and construction of the walls.

GRADING NOTE

Contractor is responsible to verify the site earthwork quantities and for any necessary import or export from the site. Contractor is also responsible to review and follow all recommendations in the geotechnical report for the site as well.

GAS FACILITY NOTES

I. FOR GAS DISTRIBUTION ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE, ADDRESS TO:
   HARRY KINCAID, P.E.
   GAS DISTRIBUTION ENGINEERING
   P.O. BOX 960, ROOM 460A
   CINCINNATI, OH 45201-0960
II. THE PRINT SHOWS THE APPROXIMATE LOCATION AND DEPTHS OF COVER AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THE INFORMATION SHOULD BE USED ONLY FOR PLANNING, NOT CONSTRUCTION.
III. ALL GAS FACILITY DEPTHS NOTED ARE APPROXIMATE DEPTHS RECORDED AT THE TIME OF INSTALLATION ANY RESULTING GRADE CHANGES SINCE THE TIME OF THE MAIN INSTALLATION WILL CAUSE THE EXISTING DEPTH OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO ENSURE SAFE EXCAVATION WHEN APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.
IV. ALL GAS SERVICES WERE INSTALLED AT A MINIMUM OF 1'-6" COVER. SEE III ABOVE.
V. FOR ADDITIONAL GAS FACILITY INFORMATION, CALL (513)287-2532 OR (513)287-1264.
VI. TO COMPLY WITH FEDERAL AND STATE REGULATIONS CONCERNING DAMAGE PREVENTION PROGRAMS THE UTILITY COMPANIES MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO EXCAVATION BY CALLING KENTUCKY UNDERGROUND PROTECTION INC. (KUPI), TOLL FREE AT 1-800-752-6007.

CONSTRUCTION NOTES:
I GAS FACILITIES ARE TO BE KEPT IN SERVICE AT ALL TIMES.
II. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO GAS FACILITIES DURING OR AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION. ALL DAMAGE TO GAS FACILITIES DURING ADJUSTMENTS, RELOCATION'S AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
III. THE CONTRACTOR SHALL SHEET AND SHORE ALL EXCAVATIONS AS REQUIRED TO CONTINUOUSLY SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS DETERMINED BY THE NATURAL ANGLE OF REPOSE OF THE SOIL).
IV. CROSSING BURIED GAS FACILITIES WITH HEAVY CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT THE GAS FACILITIES FROM DAMAGE.
V. THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS FACILITIES AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMENTS THAT MAY BE REQUIRED.
VI. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY DAMAGE TO TO OUR GAS FACILITIES. THIS INCLUDES PROTECTION OF COOLINGS AND WRAPPINGS ON STEEL GAS MAINS. IT ALSO INCLUDES ANY DAMAGE WHICH MA HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR GAUGES.
VII. WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSED OR INTERFERED WITH BY THE CONTRACTOR, REPLACEMENT OR REINFORCEMENT BY DUKE ENERGY MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED.
VIII. BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN THE VICINITY OF GAS FACILITIES MUST BE APPROVED BY DUKE ENERGY'S GAS ENGINEERING DEPARTMENT. A BLASTING PLAN, IDENTIFYING ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN WRITING BY A BLASTING EXPERT PRIOR TO ANY WORK.

PROPOSED DEVELOPMENTS AT GAS R/W & EASEMENTS (IF APPLICABLE)
I. PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS MUST BE SUBMITTED TO DUKE ENERGY'S GAS ENGINEERING DEPARTMENT FOR REVIEW. THESE PLANS MUST BE APPROVED ANY WORK MAY BEGIN WITHIN OUR EASEMENT.
II. SPECIFIED EASEMENT WIDTHS MUST BE MAINTAINED IN ORDER FOR DUKE ENERGY TO PROTECT IT'S FACILITIES.
III. NO PERMANENT STRUCTURES MAY BE BUILT WITHIN THE EASEMENTS.
IV. CUTS AND FILL S ARE GENERALLY NOT PERMITTED WITHIN THE EASEMENTS. SOME FILLS MAY BE ALLOWED AND WILL BE REVIEWED ON AN INDIVIDUAL BASIS. ANY PERMITTED FILLS WILL BE LIMITED TO AN AMOUNT WHICH WILL ALLOW DUKE ENERGY TO PROPERLY MAINTAIN ITS FACILITIES.
V. PERPENDICULAR UTILITY CROSSINGS OF GAS EASEMENTS ARE ACCEPTABLE, PROVIDED PROPER CLEARANCES ARE MAINTAINED. PARALLEL INSTALLATION ARE NORMALLY NOT ALLOWED.

PROJECT CONTROL

Vertical Control was established by real time kinematic GPS using KYTC Virtual Refrence Station via cell phone.
HORIZONTAL CONTROL = NAD 83 (NSRS 2007) KY. S.P.C.S. NORTH ZONE
U.S. FEET VERTICAL CONTROL = NAVD 88 - U.S. FEET

NOTE: City of Erlanger to own and maintain the proposed detention pond/structure and all water quality structures.

Occupational Safety and Health Administration (OSHA)

It shall be the full and complete responsibility of the contractor to meet and comply with safety requirements and regulations as established by OSHA or any other regulatory body. The owner and engineer will not perform any safety compliance inspections as the contractor has accepted full and complete responsibility for performing such inspections for compliance to the regulations.

The contractor shall indemnify and protect and hold harmless the owner and engineer from any loss, expense, fine, damage, or suit, including attorney's fees, arising out of any safety violation suits brought by injured persons and/or fines levied by OSHA or any other regulatory body, as a result of the contractor's work.

KENTUCKY UNDERGROUND PROTECTION, INC.
1-800-752-6007
CALL 2 WORKING DAYS BEFORE YOU DIG

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2	REVISE PFR AGENCY REVIEWS	11-14-22	ADT	MLB
3	REVISE PFR REVIEW	11-21-22	ADT	MLB/JHV
4	REVISE PFR REVIEW	12-19-22	ADT	MLB/JHV

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GENERAL NOTES

Project No:	Checked:
100921002	JHV/BMM/MLB
Date:	Ref:
10/14/2022	ME/TMG/ADT

Sheet:
2

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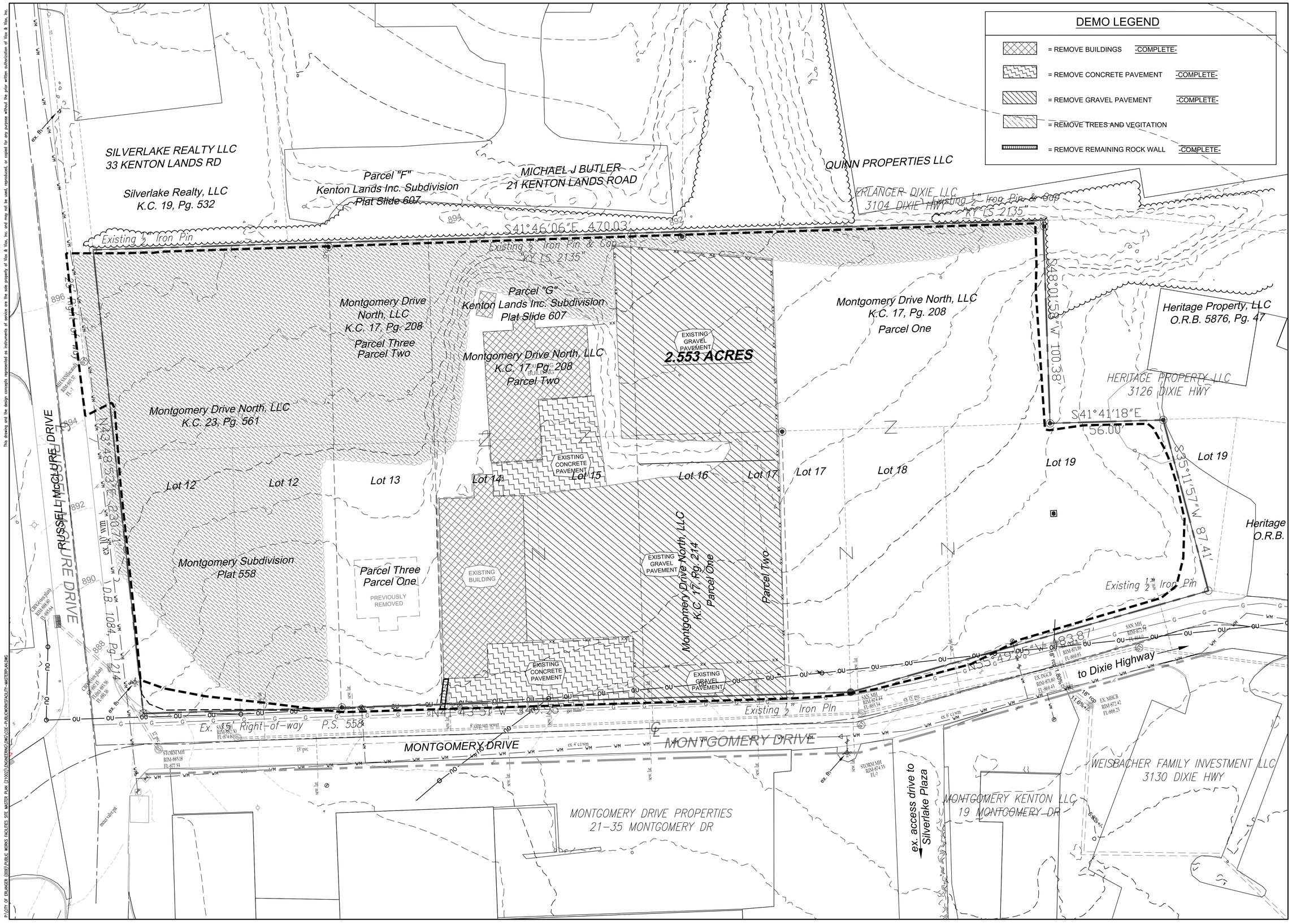

Item	Revision	Date	By	Chk.

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EXISTING CONDITIONS AND DEMOLITION PLAN

Project No: 100921002	Checked: JHV/BMM/MLB
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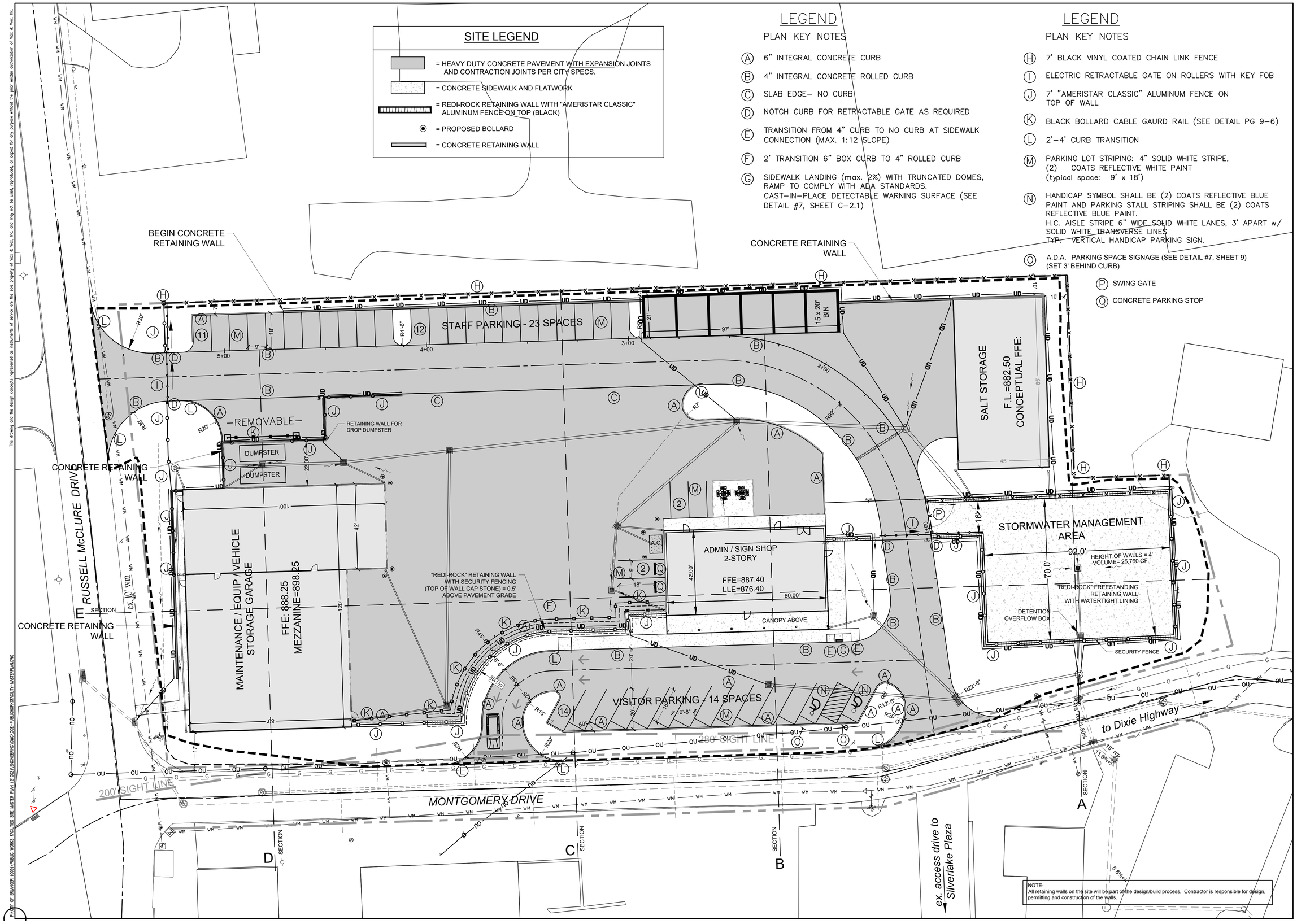

LEGEND

PLAN KEY NOTES

- (A) 6" INTEGRAL CONCRETE CURB
- (B) 4" INTEGRAL CONCRETE ROLLED CURB
- (C) SLAB EDGE– NO CURB
- (D) NOTCH CURB FOR RETRACTABLE GATE AS REQUIRED
- (E) TRANSITION FROM 4" CURB TO NO CURB AT SIDEWALK CONNECTION (MAX. 1:12 SLOPE)
- (F) 2' TRANSITION 6" BOX CURB TO 4" ROLLED CURB
- (G) SIDEWALK LANDING (max. 2%) WITH TRUNCATED DOMES, RAMP TO COMPLY WITH ADA STANDARDS. CAST–IN–PLACE DETECTABLE WARNING SURFACE (SEE DETAIL #7, SHEET C–2.1)

LEGEND

PLAN KEY NOTES

- (H) 7' BLACK VINYL COATED CHAIN LINK FENCE
- (I) ELECTRIC RETRACTABLE GATE ON ROLLERS WITH KEY FOB
- (J) 7' "AMERISTAR CLASSIC" ALUMINUM FENCE ON TOP OF WALL
- (K) BLACK BOLLARD CABLE GAURD RAIL (SEE DETAIL PG 9–6)
- (L) 2'–4' CURB TRANSITION
- (M) PARKING LOT STRIPING: 4" SOLID WHITE STRIPE, (2) COATS REFLECTIVE WHITE PAINT (typical space: 9' x 18')
- (N) HANDICAP SYMBOL SHALL BE (2) COATS REFLECTIVE BLUE PAINT AND PARKING STALL STRIPING SHALL BE (2) COATS REFLECTIVE BLUE PAINT. H.C. AISLE STRIPE 6" WIDE SOLID WHITE LANES, 3' APART w/ SOLID WHITE TRANSVERSE LINES TYP. VERTICAL HANDICAP PARKING SIGN.
- (O) A.D.A. PARKING SPACE SIGNAGE (SEE DETAIL #7, SHEET 9) (SET 3' BEHIND CURB)
- (P) SWING GATE
- (Q) CONCRETE PARKING STOP

SCALE: 1" = 20'

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LAYOUT PLAN

Project No: 100921002	Checked: JHV/BMM/MLB
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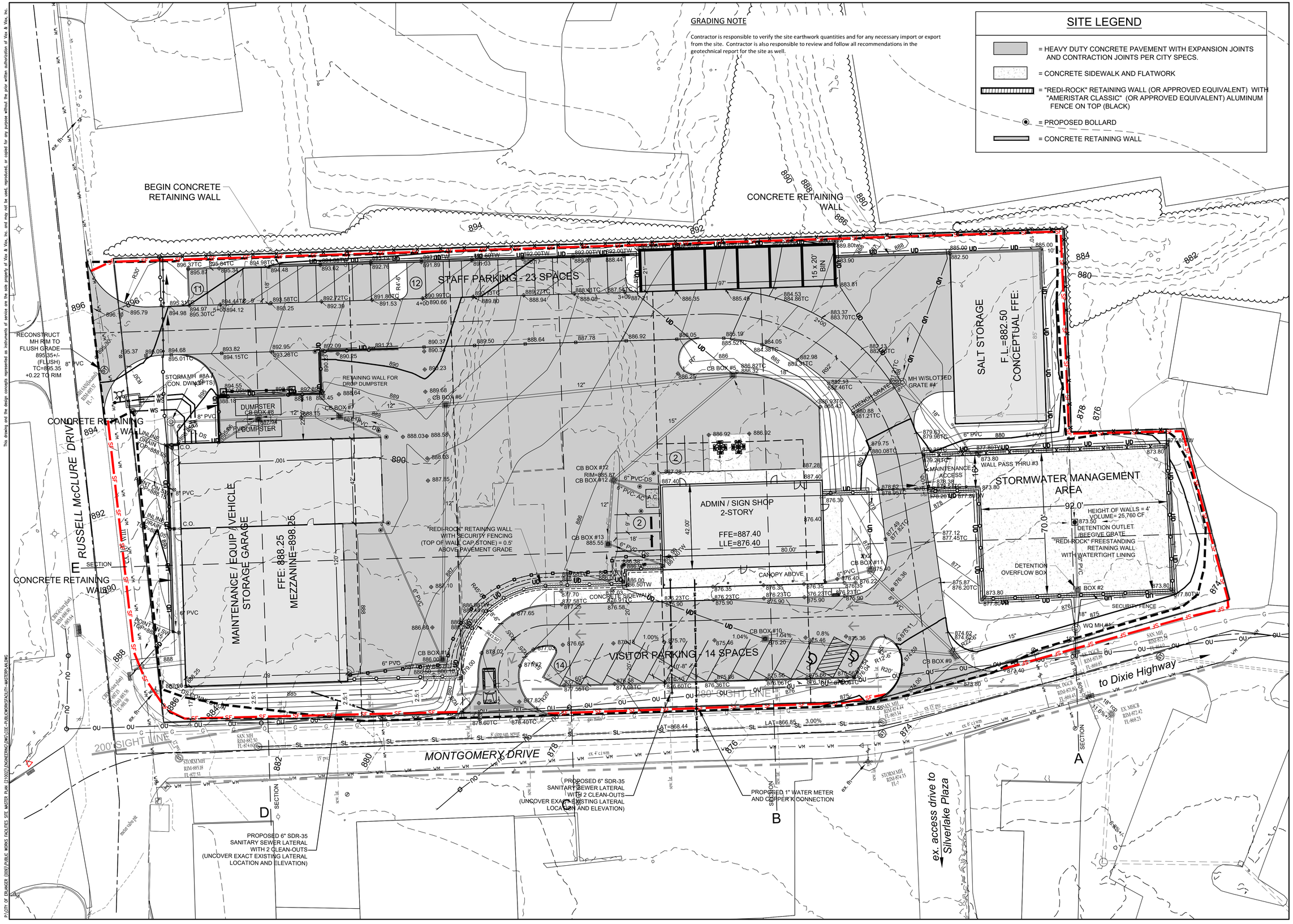

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GRADING PLAN

Project No: 100921002	Checked: JHV/BMM/MLB
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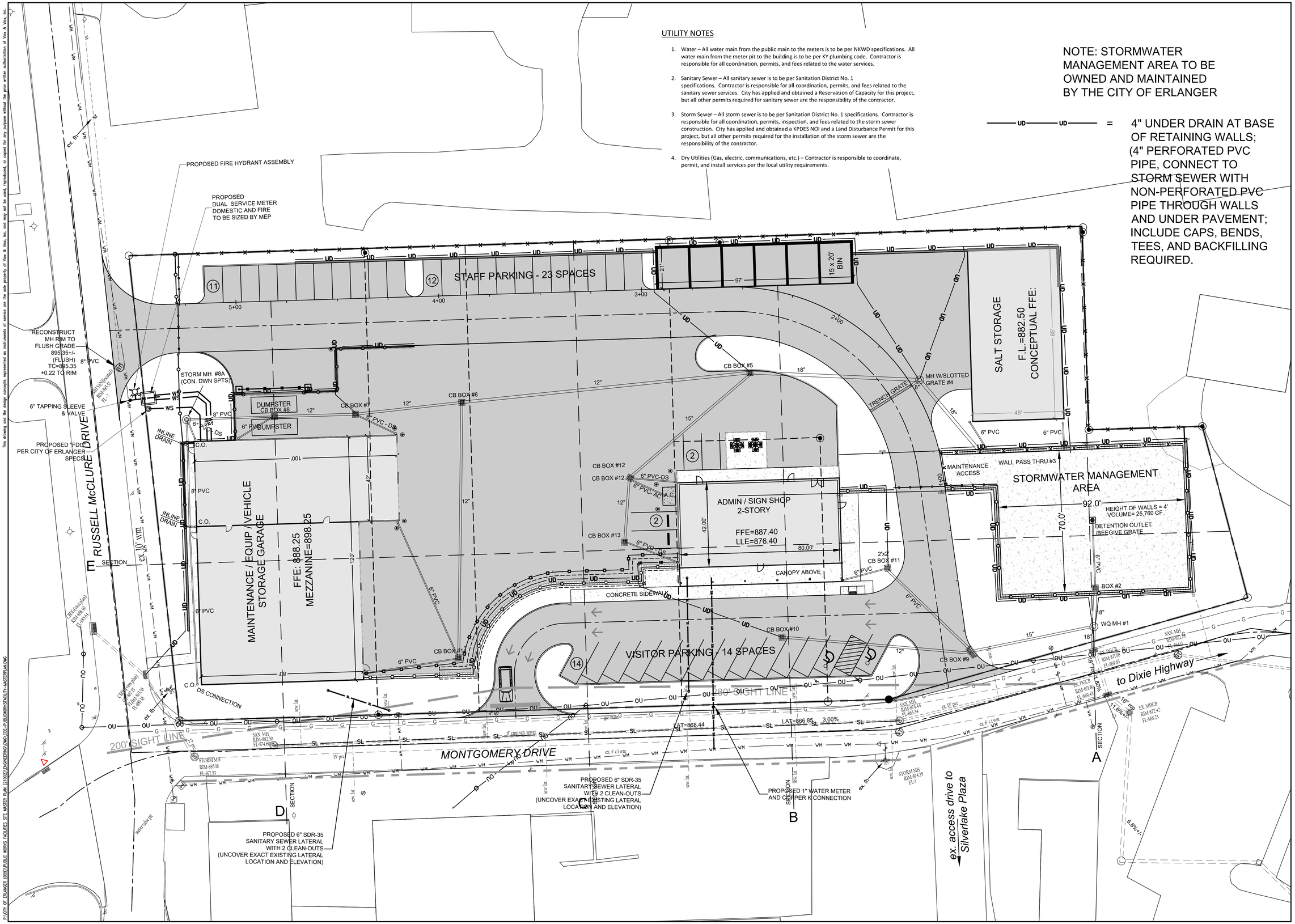
UTILITY NOTES

1. Water – All water main from the public main to the meters is to be per NKWD specifications. All water main from the meter pit to the building is to be per KY plumbing code. Contractor is responsible for all coordination, permits, and fees related to the water services.
2. Sanitary Sewer – All sanitary sewer is to be per Sanitation District No. 1 specifications. Contractor is responsible for all coordination, permits, and fees related to the sanitary sewer services. City has applied and obtained a Reservation of Capacity for this project, but all other permits required for sanitary sewer are the responsibility of the contractor.
3. Storm Sewer – All storm sewer is to be per Sanitation District No. 1 specifications. Contractor is responsible for all coordination, permits, inspection, and fees related to the storm sewer construction. City has applied and obtained a KPDES NOI and a Land Disturbance Permit for this project, but all other permits required for the installation of the storm sewer are the responsibility of the contractor.
4. Dry Utilities (Gas, electric, communications, etc.) – Contractor is responsible to coordinate, permit, and install services per the local utility requirements.

NOTE: STORMWATER MANAGEMENT AREA TO BE OWNED AND MAINTAINED BY THE CITY OF ERLANGER

UD — UD = 4" UNDER DRAIN AT BASE OF RETAINING WALLS; (4" PERFORATED PVC PIPE, CONNECT TO STORM SEWER WITH NON-PERFORATED PVC PIPE THROUGH WALLS AND UNDER PAVEMENT; INCLUDE CAPS, BENDS, TEES, AND BACKFILLING REQUIRED.



SCALE: 1" = 20'

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UTILITY PLAN

Project No: 100921002	Checked: JHV/BMM/MLB
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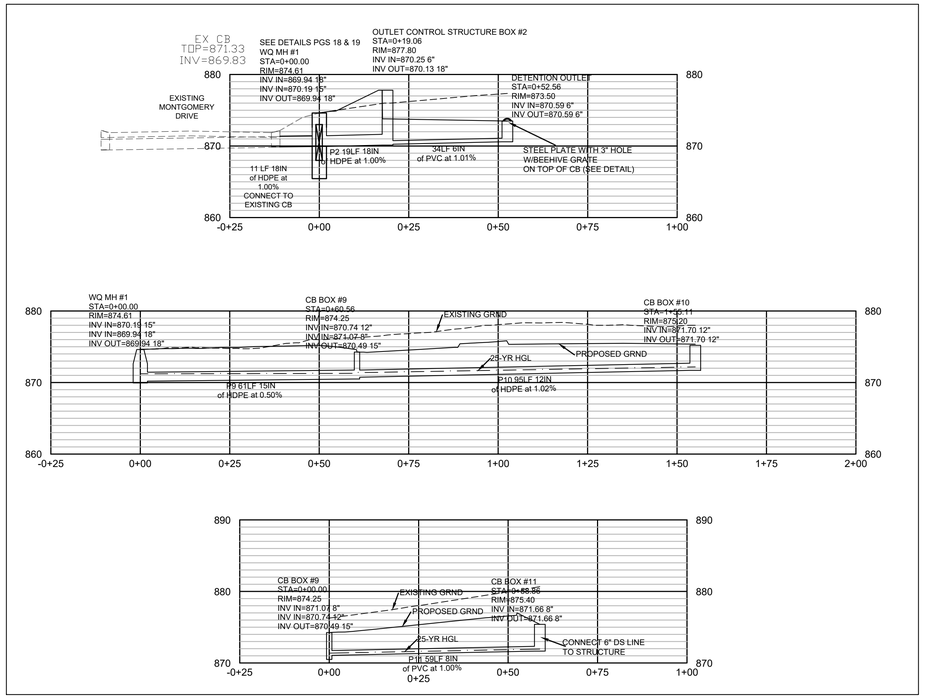

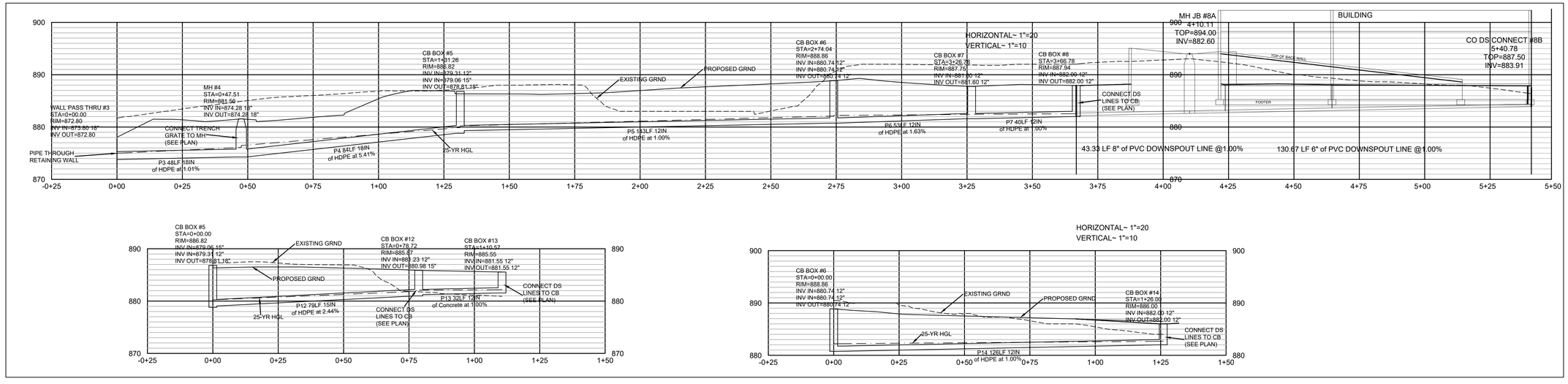

0 20' 30'
SCALE: 1" = 20'

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UTILITY PLAN

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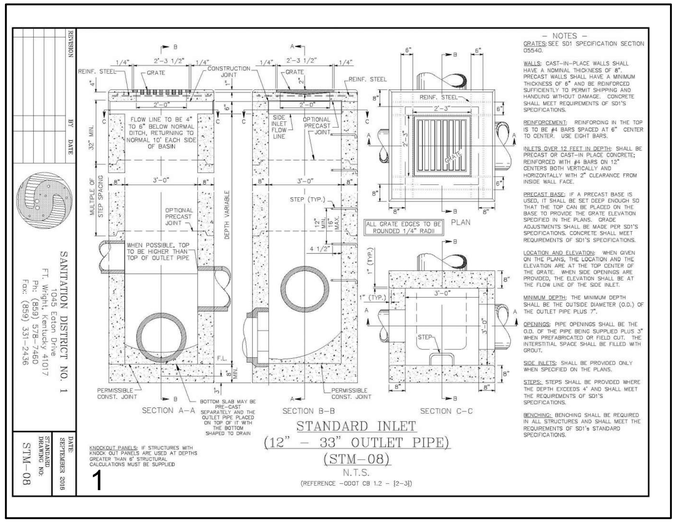

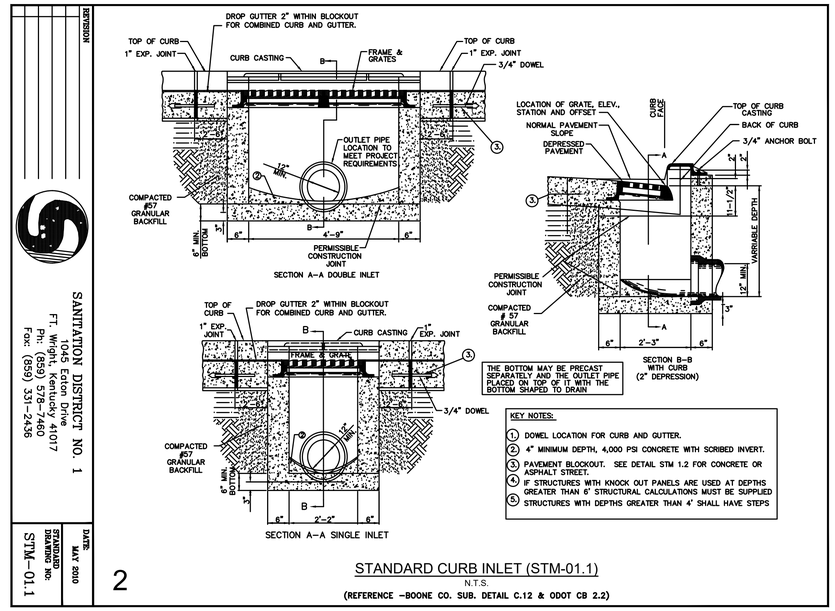

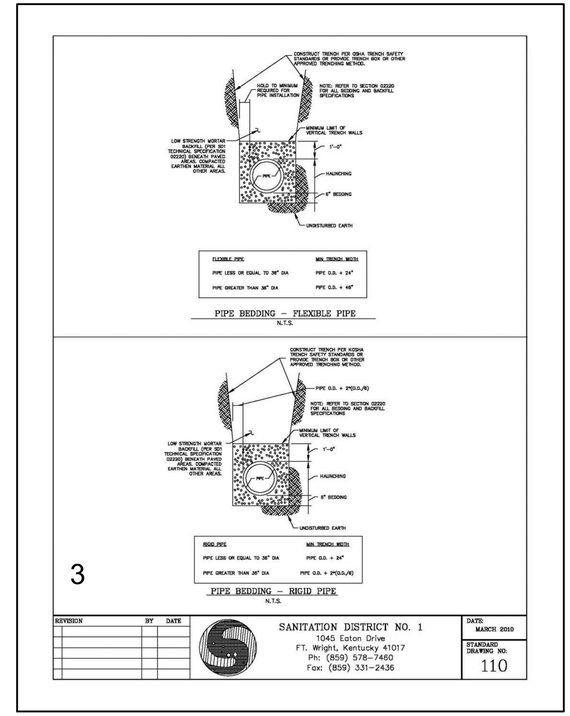

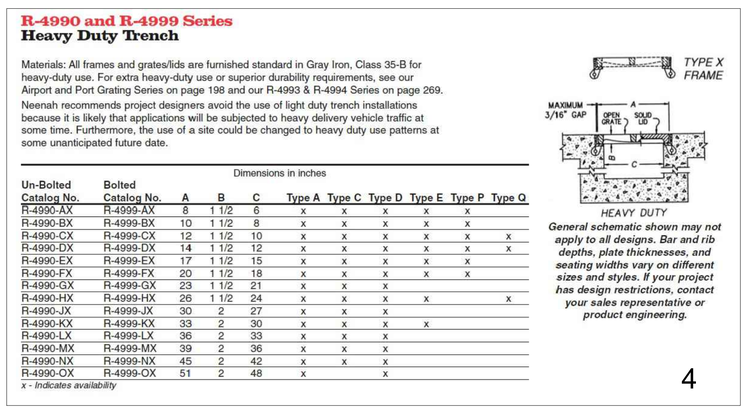

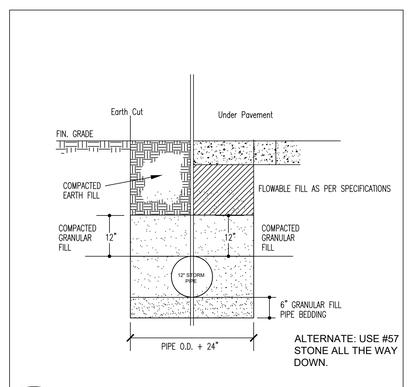

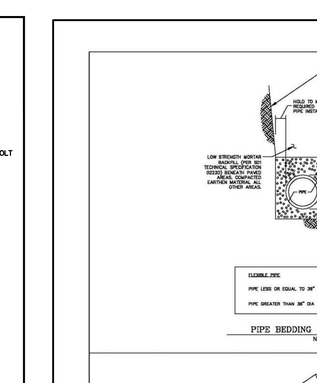

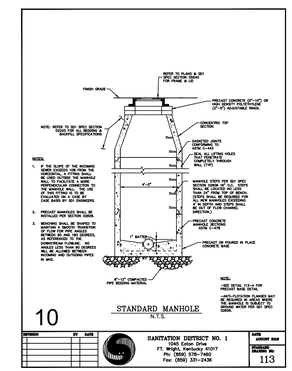

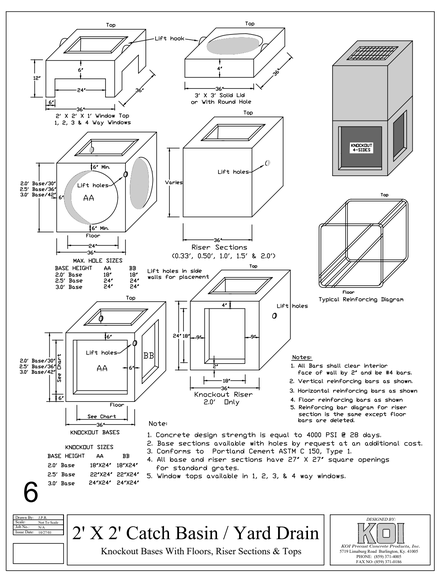

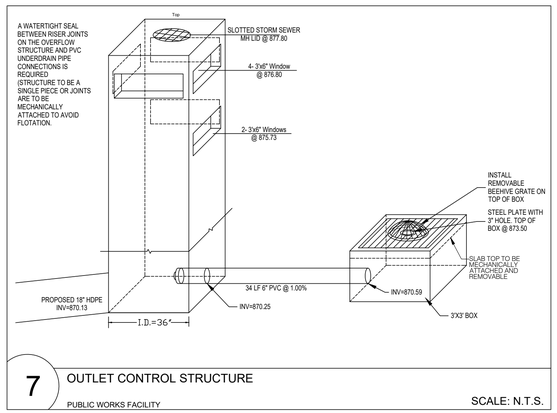

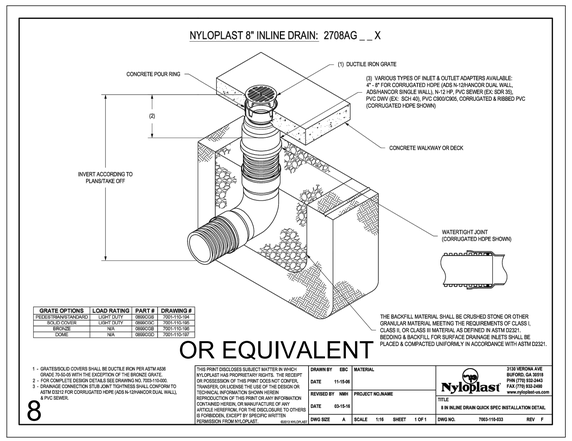

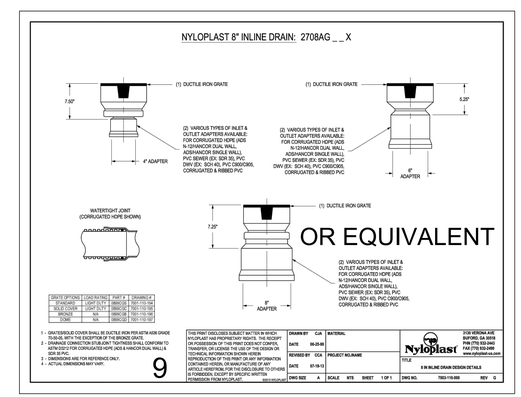

SCALE: 1" = 20'

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DETAILS- STORM SEWER

Project No:	Checked:
100921002	JHV/BMM/MLB
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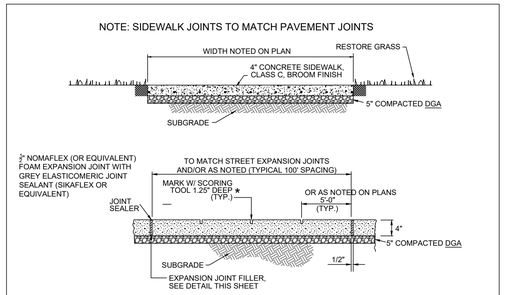
CURB AND GUTTER DETAILS



1 4" THICK SIDEWALK

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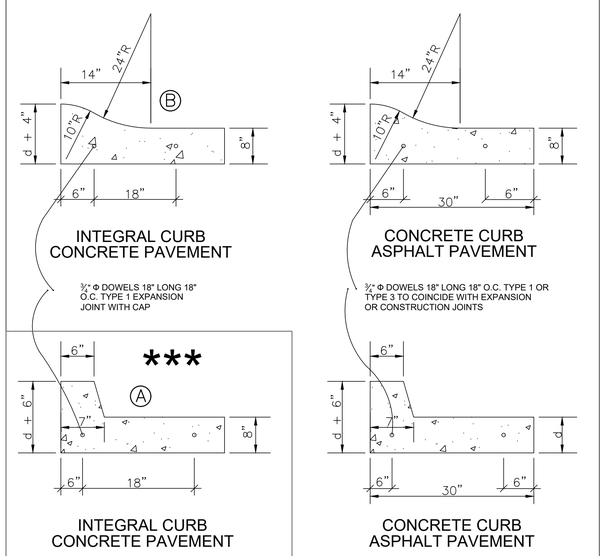

NOTE: Transverse expansion, contraction and construction joints shall conform to Item 10.0 of these regulations

4/2/07

2 CURB AND GUTTER DETAILS

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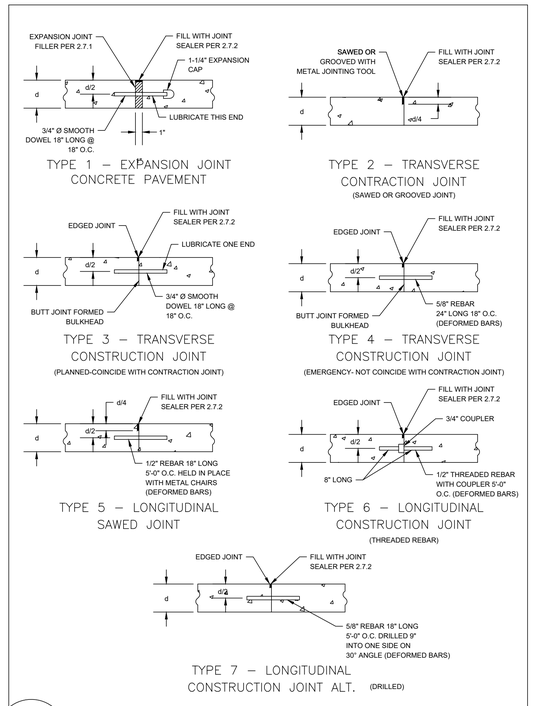

3 JOINT DETAILS

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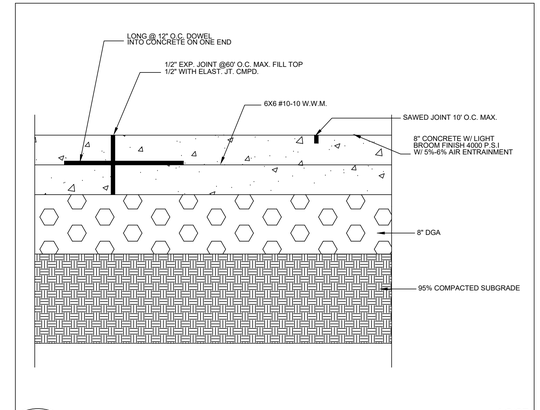

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4 CONCRETE PAVEMENT

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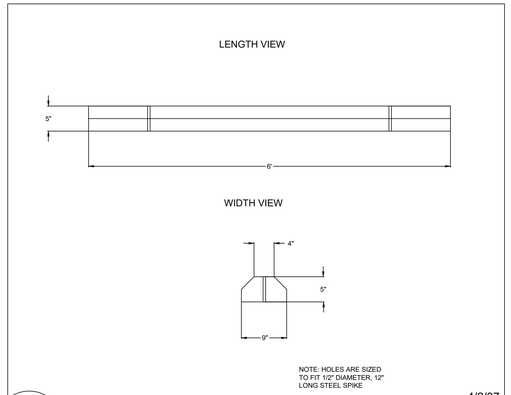

4/2/07

5 CONCRETE PARKING STOP

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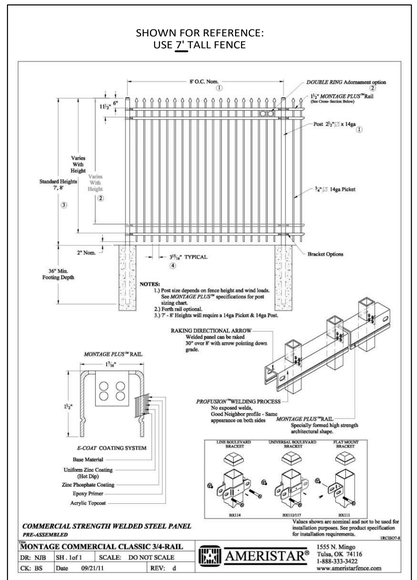
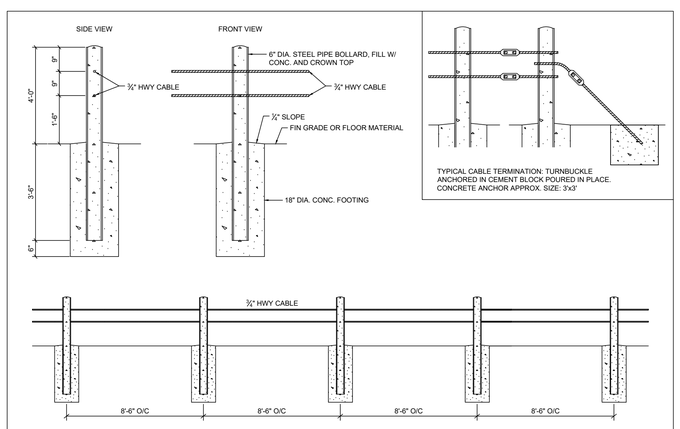
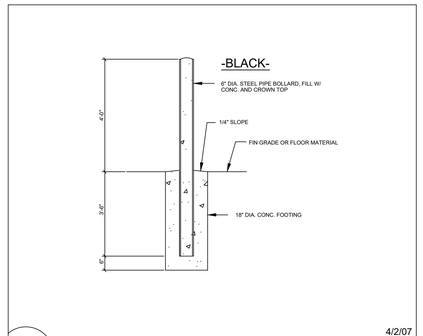


10 OR EQUIVALENT



6 BOLLARD CABLE GUARDRAIL -BLACK-

SCALE: N.T.S.



4/2/07

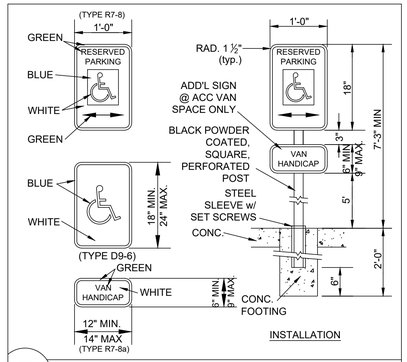
12 TYPICAL BOLLARD SECTION

SCALE: N.T.S.

7' BLACK VINYL COATED CHAIN LINK FENCE

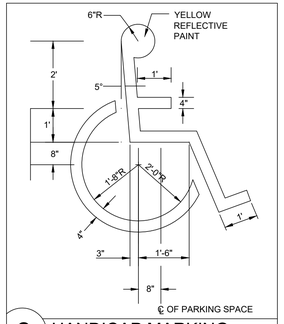
11 7' CHAIN LINK FENCE DETAIL

SCALE: N.T.S.



7 A.D.A. PARKING SIGN

SCALE: N.T.S.

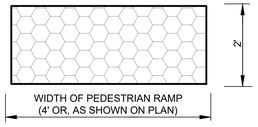


8 HANDICAP MARKING

SCALE: N.T.S.

RAISED TRUNCATED DOME GEOMETRY:

DOME DIAMETER - 0.9"
DOME HEIGHT - 0.2"
DOME SPACING - 2.35" CENTER TO CENTER
COLOR - BRICK RED



USE "ARMOUR TILE" , "ADA SOLUTIONS" , OR APPROVED EQUIVALENT (PER A.D.A. SPECS.)

9 CAST-IN-PLACE DETECTABLE WARNING SURFACE

0 20' 30'
SCALE: 1" = 20'

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	8-19-2022	ADT	JHV/AY
2	REVISE PER AGENCY REVIEWS	11-14-22	ADT	MLB
3	REVISE PER REVIEW	11-21-22	ADT	MLB/JHV
4	REVISE PER REVIEW	12-19-22	ADT	MLB/JHV

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KENTON COUNTY, KENTUCKY

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DETAILS- PAVEMENT

Project No: 100921002	Checked: JHV/BMM/MLB
Date: 10/14/2022	Ref: ME/TMG/ADT

Sheet: 9

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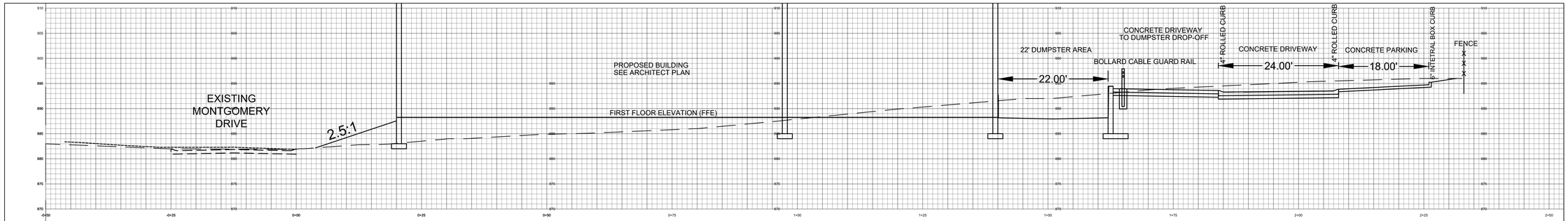
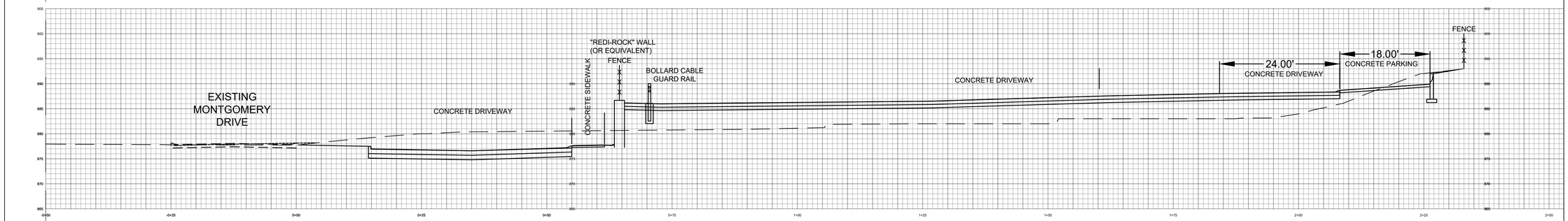


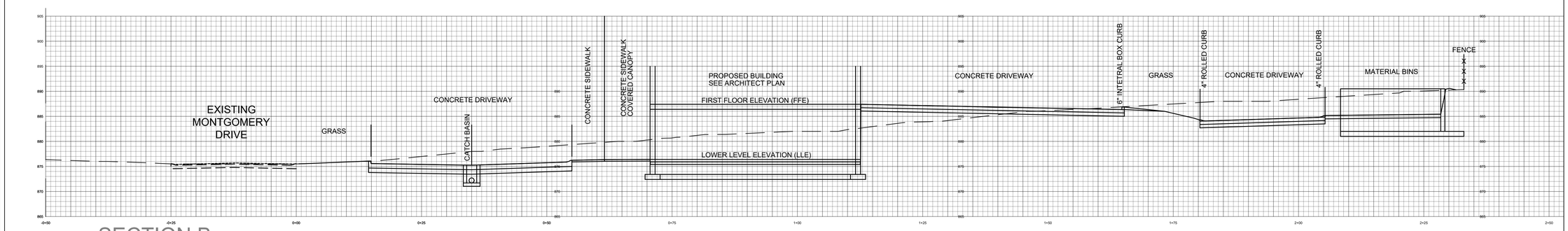
HORIZONTAL- 1"=5
VERTICAL- 1"=5

SECTION D



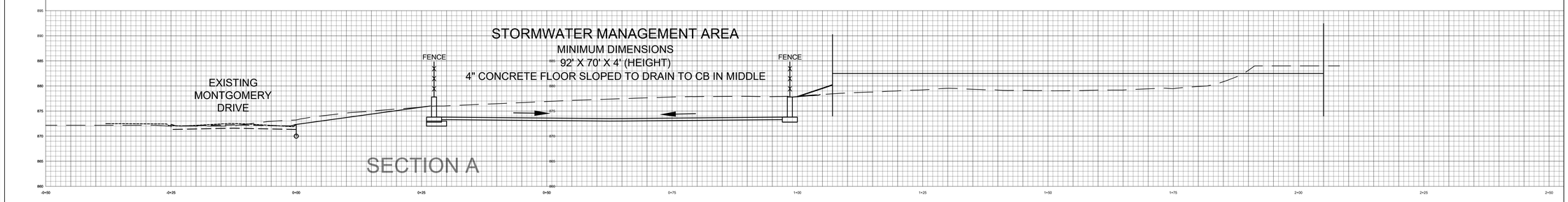
HORIZONTAL- 1"=5
VERTICAL- 1"=5

SECTION C



HORIZONTAL- 1"=5
VERTICAL- 1"=5

SECTION B



SECTION A

HORIZONTAL- 1"=5
VERTICAL- 1"=5

0 10' 15'
SCALE: 1" = 10'

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	4-19-2022	ADT	JHV/AH
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3	REVISE PER REVIEW	11-21-22	ADT	MLB/JHV

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SECTIONS

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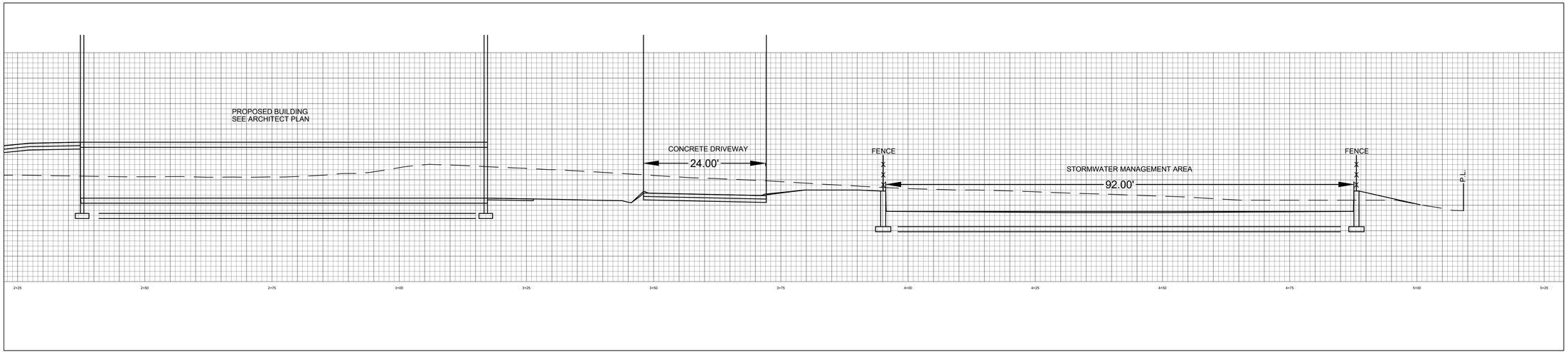

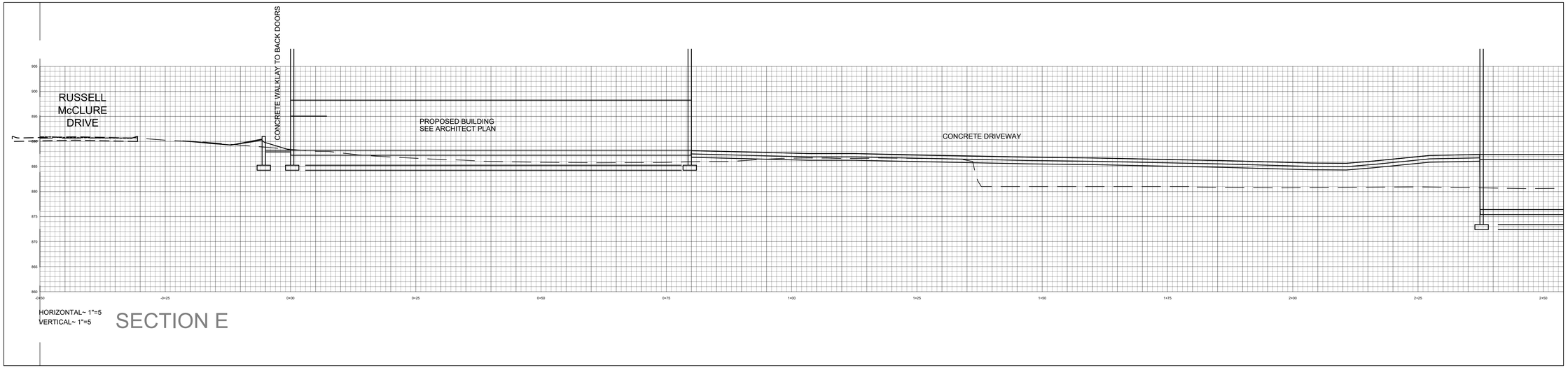

HORIZONTAL~ 1"=5
VERTICAL~ 1"=5

SECTION E

0 10' 15'
SCALE: 1" = 10'

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4	REVISE PER REVIEW	12-19-22	ADT	MLB/JHV

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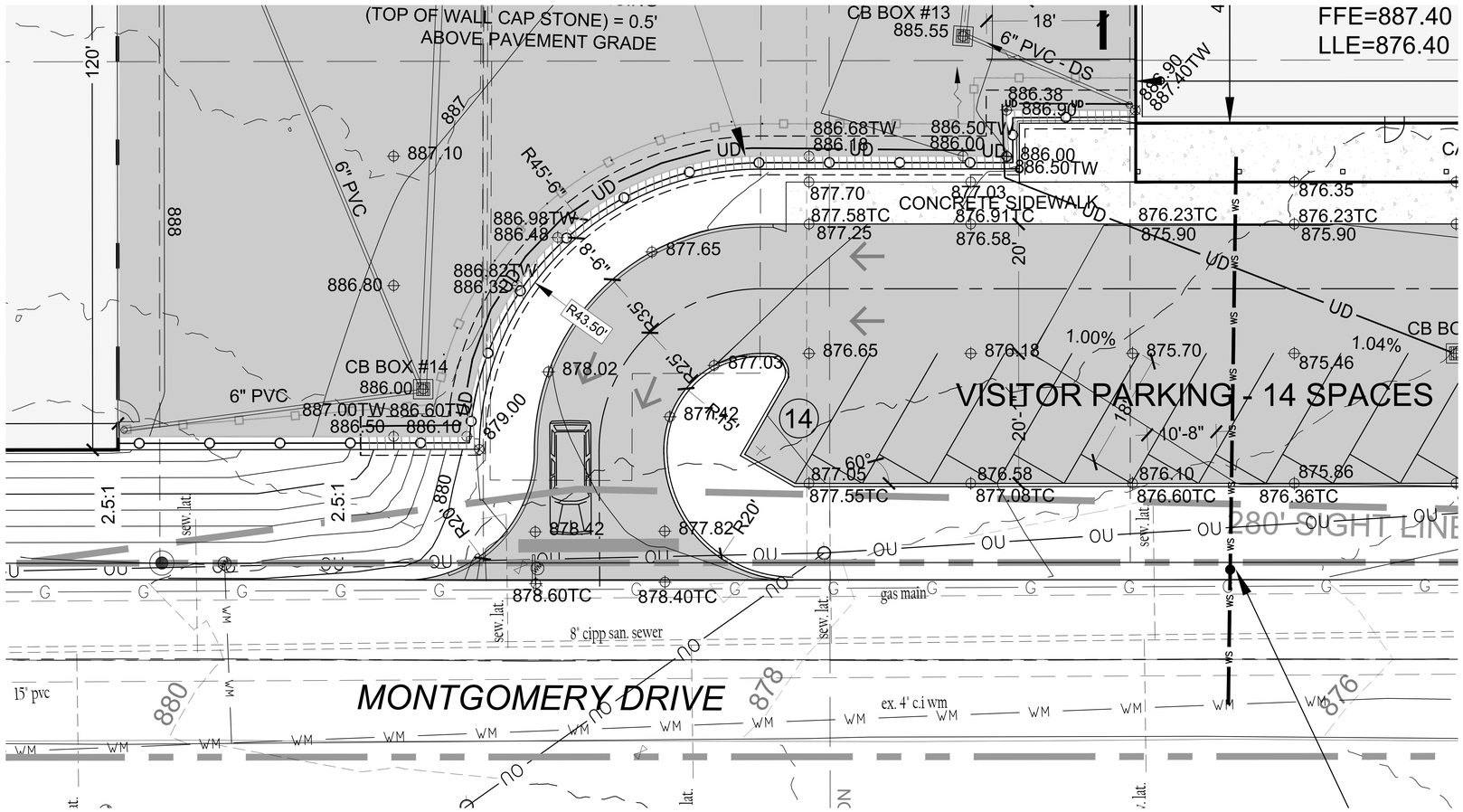

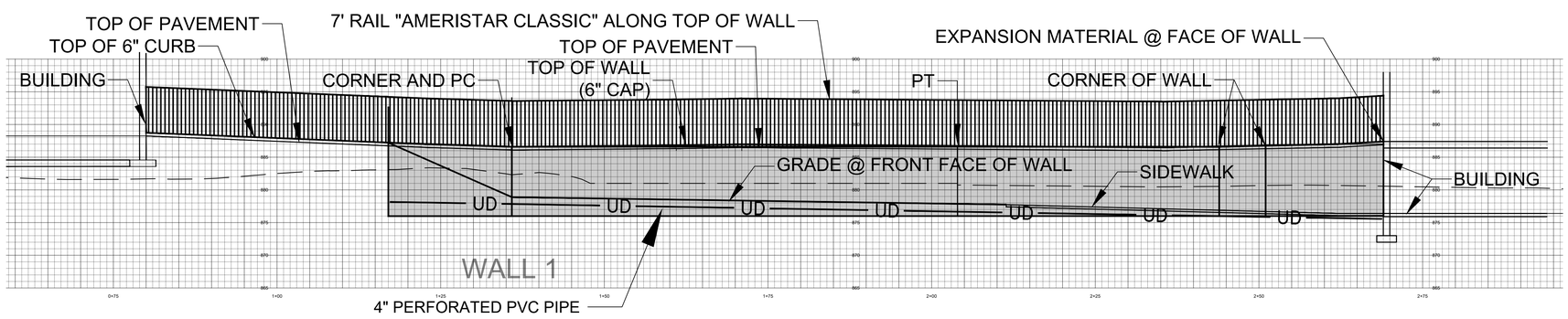

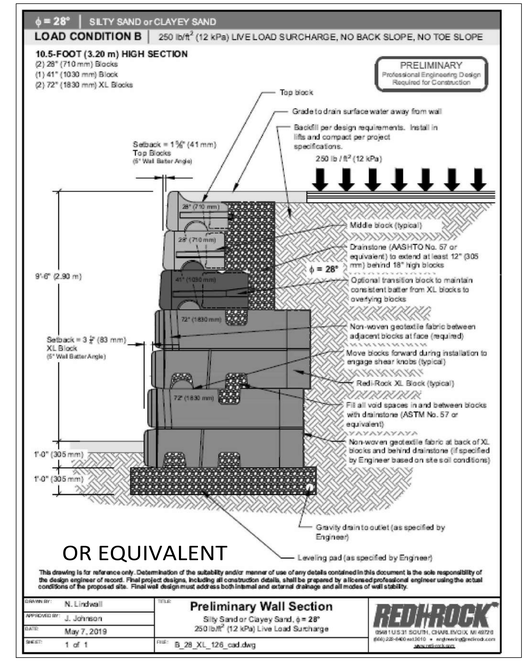

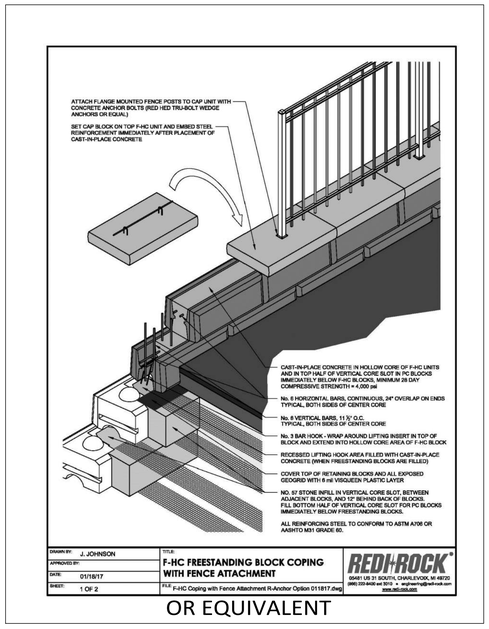

OR EQUIVALENT

NOTE-
All retaining walls shown on the site will be part of the design/build process. Contractor is responsible for design, permitting and construction of the walls.

SCALE: 1" = 10'

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3	REVISE PER REVIEW	11-21-22	ADT	MJB/JHV
4	REVISE PER REVIEW	12-19-22	ADT	MJB/JHV

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DETAILS: RETAINING WALLS

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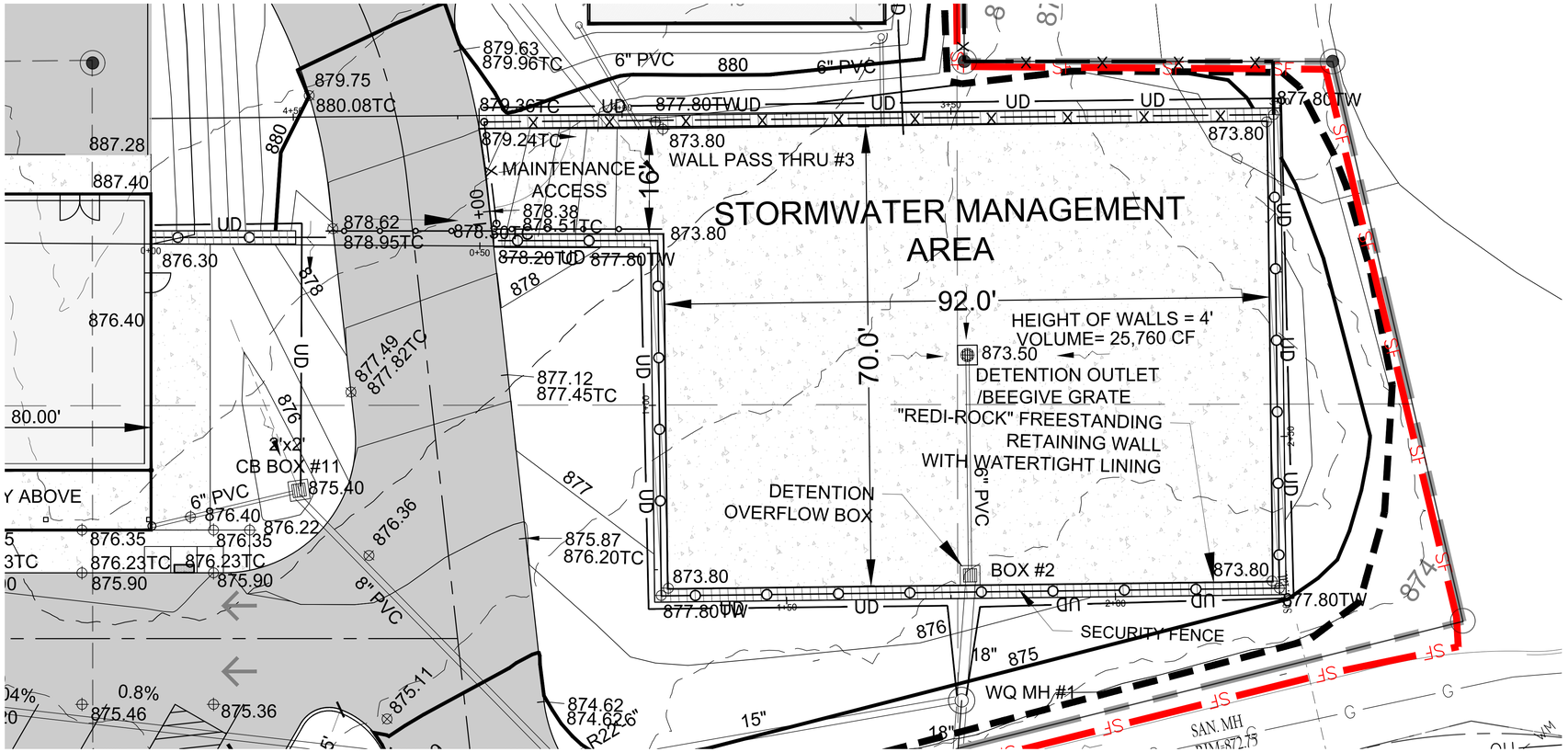

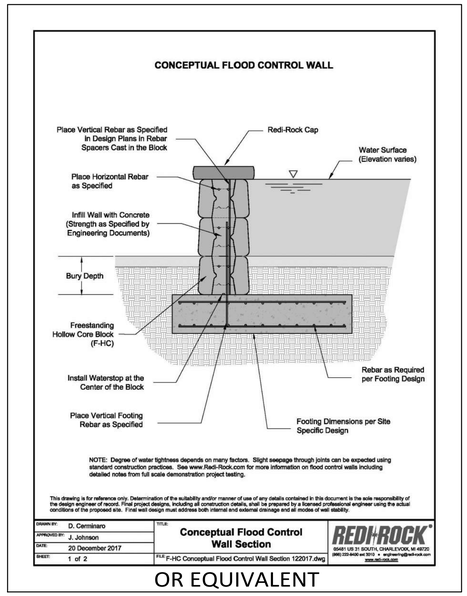

OR EQUIVALENT

NOTE-
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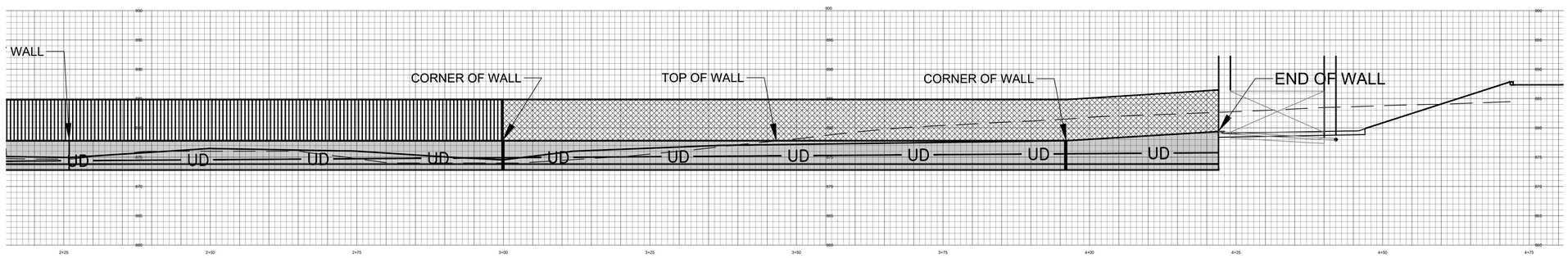

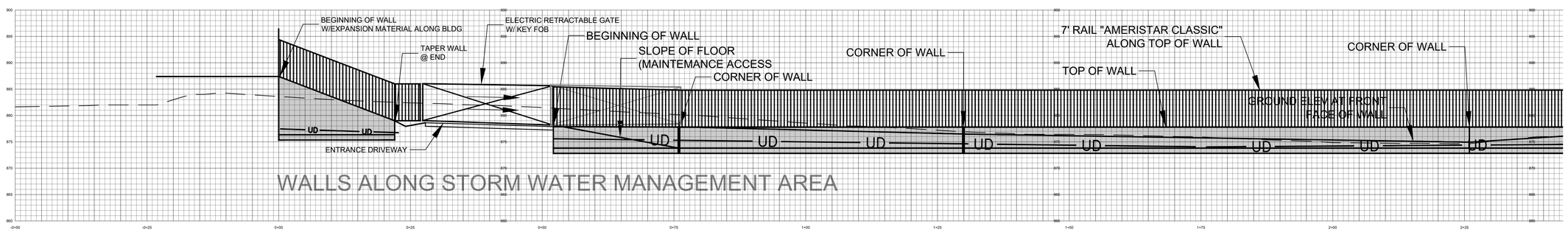

WALLS ALONG STORM WATER MANAGEMENT AREA

HORIZONTAL= 1"=10'
VERTICAL= 1"=10'

SCALE: 1" = 10'

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	4-19-2022	ADT	JHV/AT
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3	REVISE PRR REVIEW	11-21-22	ADT	MJB/JHV
4	REVISE PRR REVIEW	12-19-22	ADT	MJB/JHV

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DETAILS: RETAINING WALLS

Project No: 100921002	Checked: JHV/BMM/MLB
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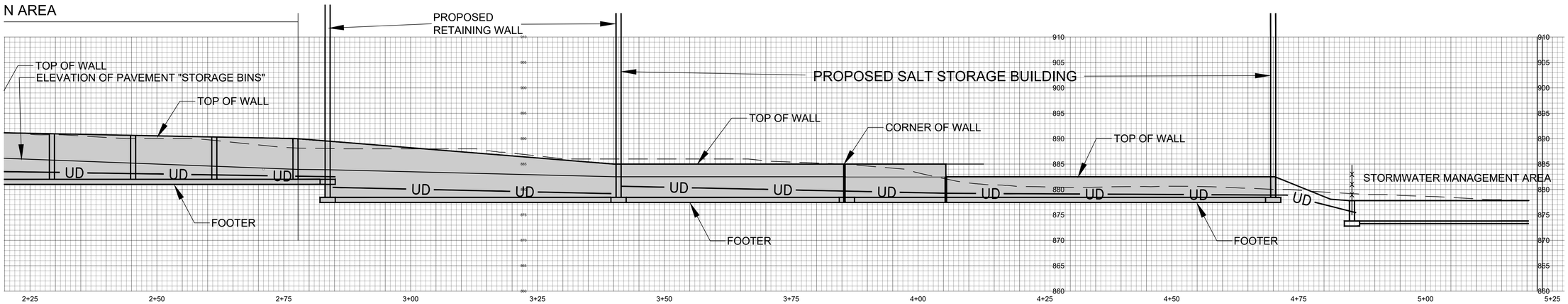

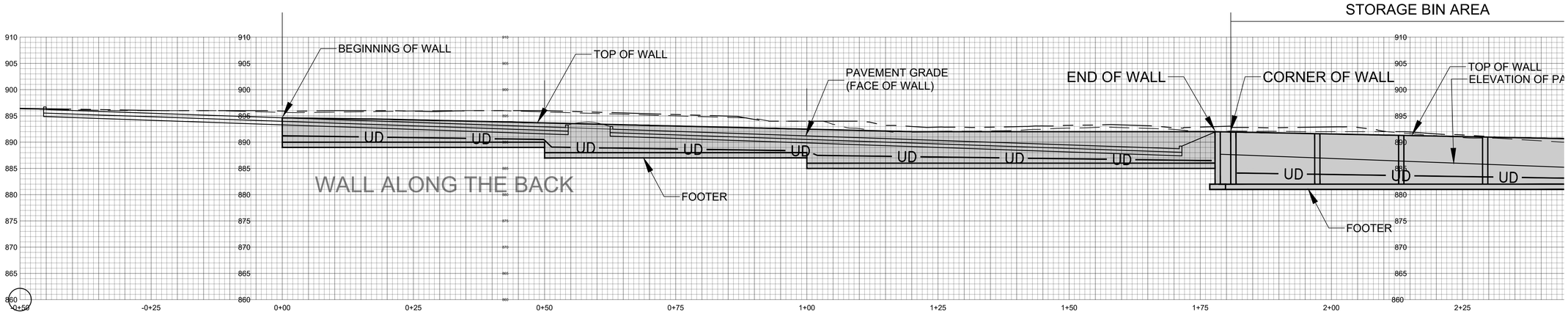

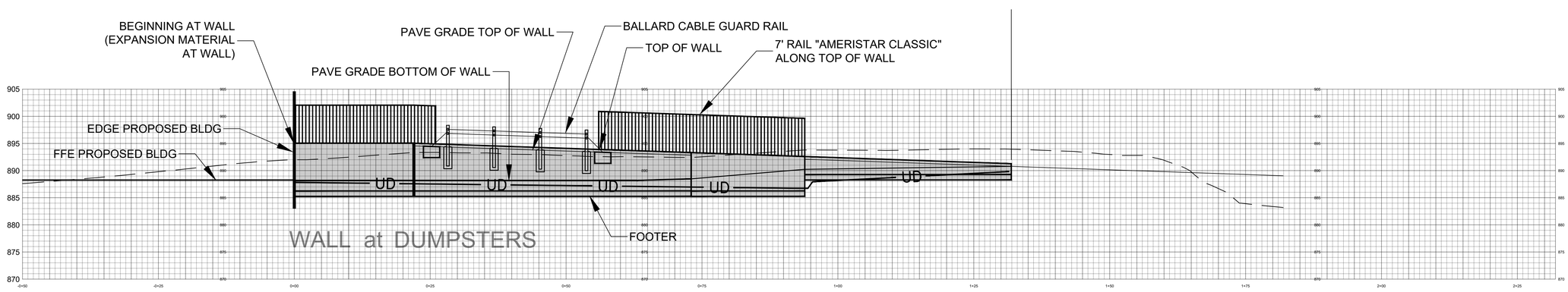

HORIZONTAL= 1"=10'
VERTICAL= 1"=10'

NOTE-
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4	REVISE PER REVIEW	12-19-22	ADT	MJB/JHV

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DETAILS: RETAINING WALLS

Project No: 100921002	Checked: JHV/BMM/MLB
Date: 10/14/2022	Ref: ME/TMG/ADT

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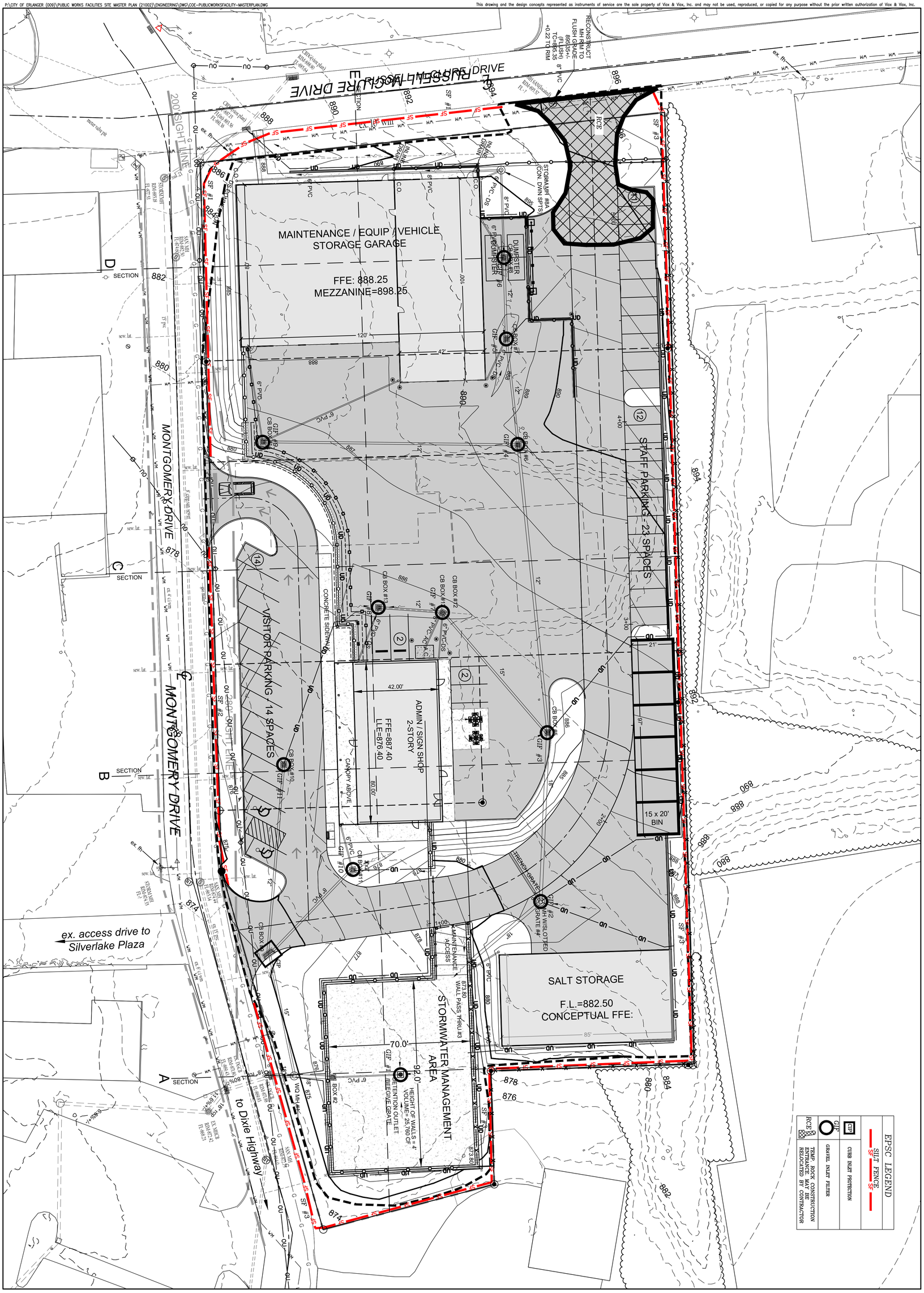

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EROSION CONTROL PLAN

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KENTON COUNTY, KENTUCKY

Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	4-19-2022	ADT	JHV/AW
2	REVISE PER AGENCY REVIEWS	11-14-22	ADT	MLB
3	REVISE PER REVIEW	11-21-22	ADT	MLB/HV
4	REVISE PER REVIEW	12-19-22	ADT	MLB/HV

Project No: 10092/10002
Checked: JHV/BMM/MLB
Date: 10-24-2022
Ref: MB1/MB2/ADT
Sheet: 15

SCALE 1" = 20'

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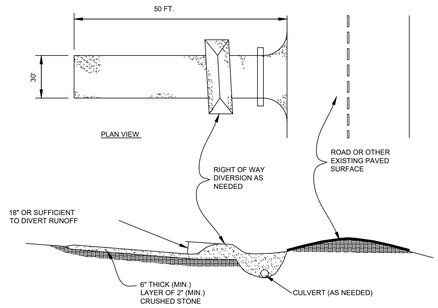


1. BEDDING - A GEOTEXTILE SEPARATION FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.

2. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.

3. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.

4. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND.

5. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

4/2/07

ROCK CONSTRUCTION ENTRANCE

SCALE: N.T.S.

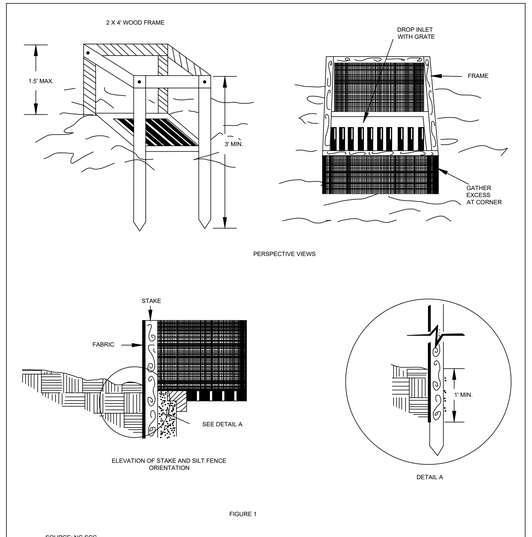


FIGURE 1

SOURCE: NC SCC

SILT FENCE INLET PROTECTION

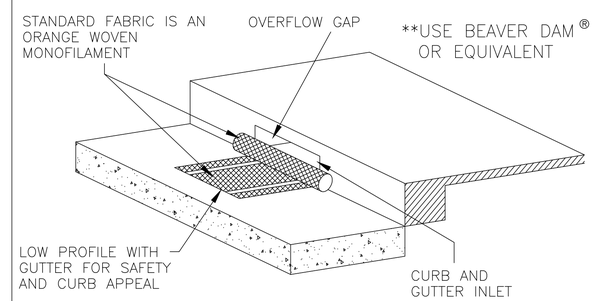
SCALE: N.T.S.

Installation and Maintenance Guidelines

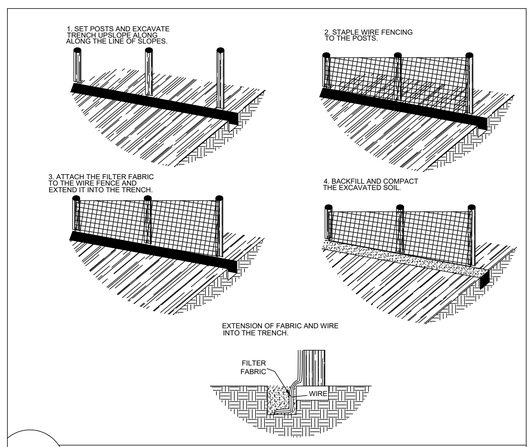
Installation: The empty Beaver Dam® should be placed over the grate as the grate stands on end. If using optional oil absorbents; place absorbent pillow on pouch, on the bottom (below-grade side) of the unit. Attach absorbent pillow to tether loop. Tuck the enclosure flap inside to completely enclose the grate. Holding the lifting devices (do not rely on lifting devices to support the entire weight of the grate), place the grate into its frame (street side first), then lower back edge with dam into place. The Beaver Dam® should be partially blocking the curb hood when installed properly.

Maintenance: Remove all accumulated sediment and debris from surface and vicinity of unit after each storm event. Remove sediment that has accumulated within the containment area of the Beaver Dam® as needed. If using optional oil absorbents; remove and replace absorbent pillow when near saturation.

BEAVER DAM ®

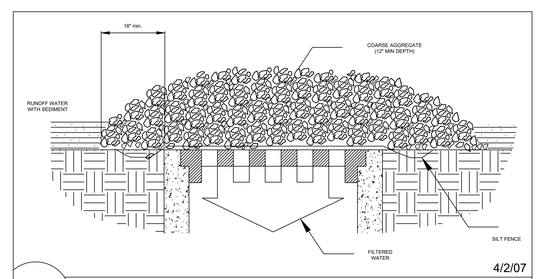


CURB INLET PROTECTION (CIP)



CONSTRUCTION OF A SILT FENCE

SCALE: N.T.S.



4/2/07

GRAVEL INLET FILTER - (GIF)

SCALE: N.T.S.

0 20' 30'

SCALE: 1" = 20'

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DETAILS- EROSION CONTROL

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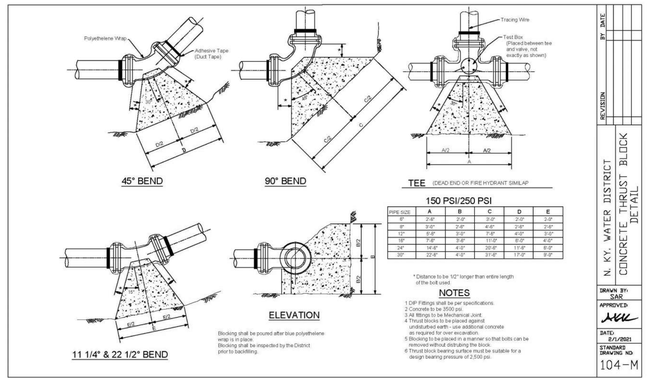


150 PSI/250 PSI

PIPE SIZE	A	B	C	D	E
6"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
8"	3'-0"	2'-0"	4'-0"	2'-0"	2'-0"
12"	5'-0"	3'-0"	7'-0"	4'-0"	3'-0"
16"	7'-0"	3'-0"	11'-0"	5'-0"	4'-0"
24"	14'-0"	4'-0"	20'-0"	11'-0"	9'-0"
30"	22'-0"	4'-0"	31'-0"	17'-0"	9'-0"

* Distance to be 1/2" longer than entire length of the bolt used.

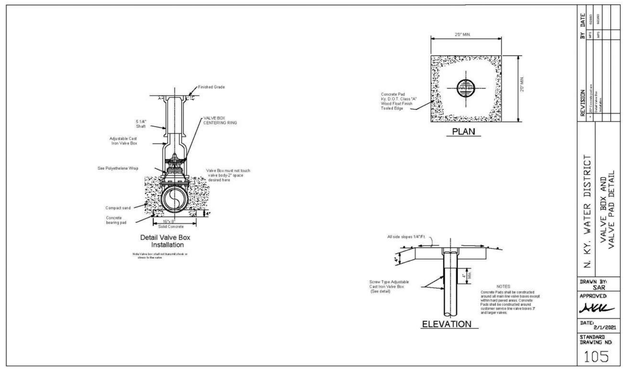
NOTES

1 DIP Fittings shall be per specifications.
2 Concrete to be 2500 psi.
3 All fittings to be Mechanical Joint.
4 Thrust blocks to be placed against undisturbed earth - use additional concrete for over excavation.
5 Blocking to be placed in a manner so that bolts can be removed without distrubing the block.
6 Thrust block bearing surface must be suitable for a design bearing pressure of 2,500 psi.

REVISION	BY	DATE
1	SAR	8/1/2021

N. KY. WATER DISTRICT
CONCRETE THRUST BLOCK DETAIL

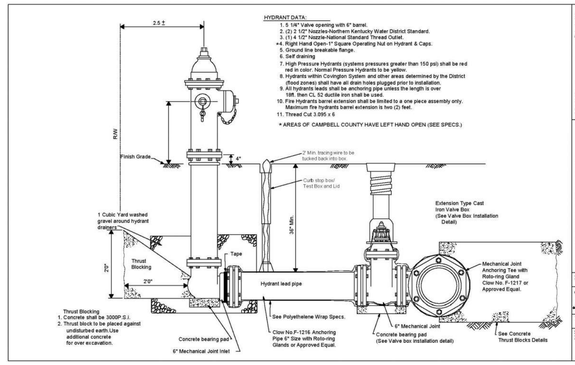
DRAWN BY: SAR
APPROVED:
DATE: 8/1/2021
STANDARD DRAWING NO 104-M



REVISION	BY	DATE
1	SAR	8/1/2021

N. KY. WATER DISTRICT
VALVE BOX AND VALVE PAD DETAIL

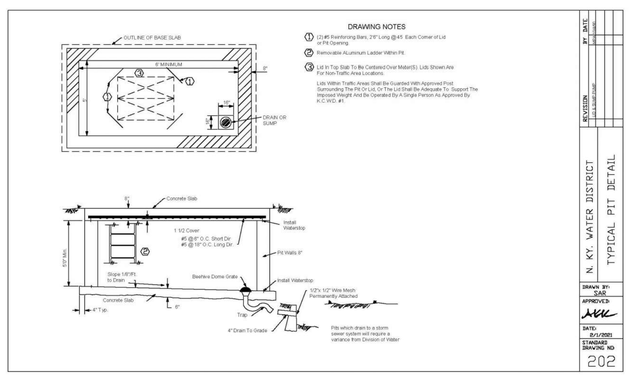
DRAWN BY: SAR
APPROVED:
DATE: 8/1/2021
STANDARD DRAWING NO 105



REVISION	BY	DATE
1	SAR	8/1/2021

N. KY. WATER DISTRICT
HYDRANT ASSEMBLY

DRAWN BY: SAR
APPROVED:
DATE: 8/1/2021
STANDARD DRAWING NO 109



DRAWING NOTES

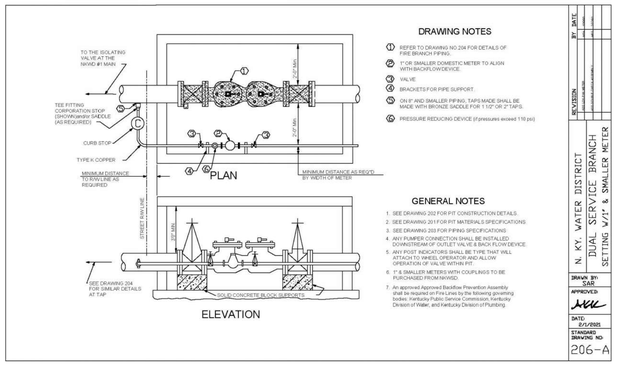
1. (2) #5 Reinforcing Bars, 2'6" Long @ 45 Each Corner of Lid or Pit Opening.
2. Removable Aluminum Ladder Within Pit.
3. Lid In Top Slab To Be Centered Over Material(S). Lids Shown Are For Non-Traffic Area Locations.

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
1	SAR	8/1/2021

N. KY. WATER DISTRICT
TYPICAL PIT DETAIL

DRAWN BY: SAR
APPROVED:
DATE: 8/1/2021
STANDARD DRAWING NO 202



DRAWING NOTES

1. REFER TO DRAWING NO.204 FOR DETAILS OF FIRE BRANCH PIPING.
2. 1" OR SMALLER DOMESTIC METER TO ALIGN WITH BACKFLOW DEVICE.
3. VALVE
4. BRACKETS FOR PIPE SUPPORT.
5. ON 8" AND SMALLER PIPING, TAPS MADE SHALL BE MADE WITH BRONZE SADDLE FOR 1 1/2" OR 2" TAPS.
6. PRESSURE REDUCING DEVICE (if pressures exceed 110 psi)

GENERAL NOTES

1. SEE DRAWING 202 FOR PIT CONSTRUCTION DETAILS.
2. SEE DRAWING 201 FOR PIT MATERIALS SPECIFICATIONS.
3. SEE DRAWING 203 FOR PIPING SPECIFICATIONS.
4. ANY PLUMBER CONNECTION SHALL BE INSTALLED DOWNSTREAM OF OUTLET VALVE & BACK FLOW DEVICE.
5. ANY POST INDICATORS SHALL BE TYPE THAT WILL ATTACH TO WHEEL OPERATOR AND ALLOW OPERATION OF VALVE WITHIN PIT.
6. 1" & SMALLER METERS WITH COUPLINGS TO BE PURCHASED FROM NWWD.
7. An approved Approved Backflow Prevention Assembly shall be required on Fire Lines by the following governing bodies: Kentucky Public Service Commission, Kentucky Division of Water, and Kentucky Division of Plumbing.

REVISION	BY	DATE
1	SAR	8/1/2021

N. KY. WATER DISTRICT
DUAL SERVICE BRANCH SETTING 1"/1" & SMALLER METER

DRAWN BY: SAR
APPROVED:
DATE: 8/1/2021
STANDARD DRAWING NO 206-A

0 20' 30'
SCALE: 1" = 20'

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	6-19-2022	ADT	JHV/AY
2	REVISE PER AGENCY REVIEWS	11-14-22	ADT	MLB
3	REVISE PER REVIEW	11-21-22	ADT	MLB/JHV

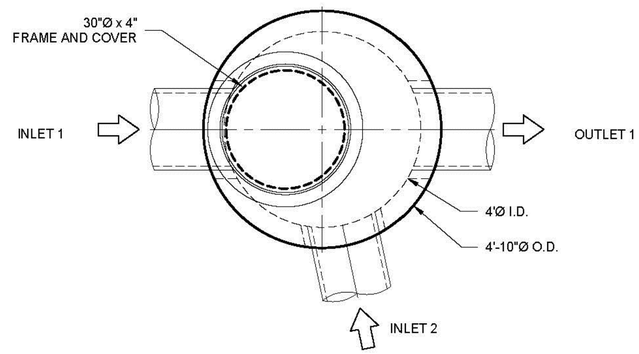
JAMES H. VIOX, III
CITY ENGINEER
CITY OF ERLANGER
KENTON COUNTY

PROP. PUBLIC WORKS BLDG
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

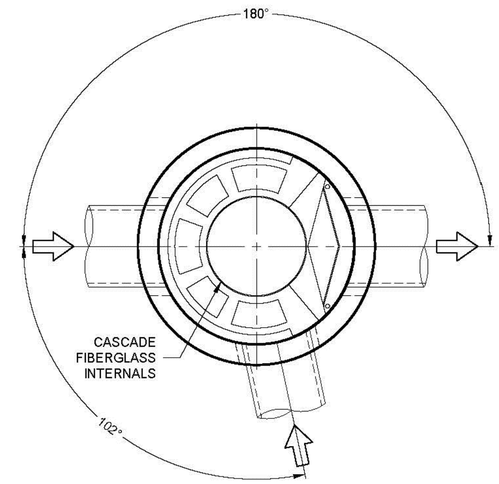
DETAILS- WATER MAIN

Project No: 100921002	Checked: JHV/BMM/MLB
Date: 10/14/2022	Ref: ME/TMG/ADT

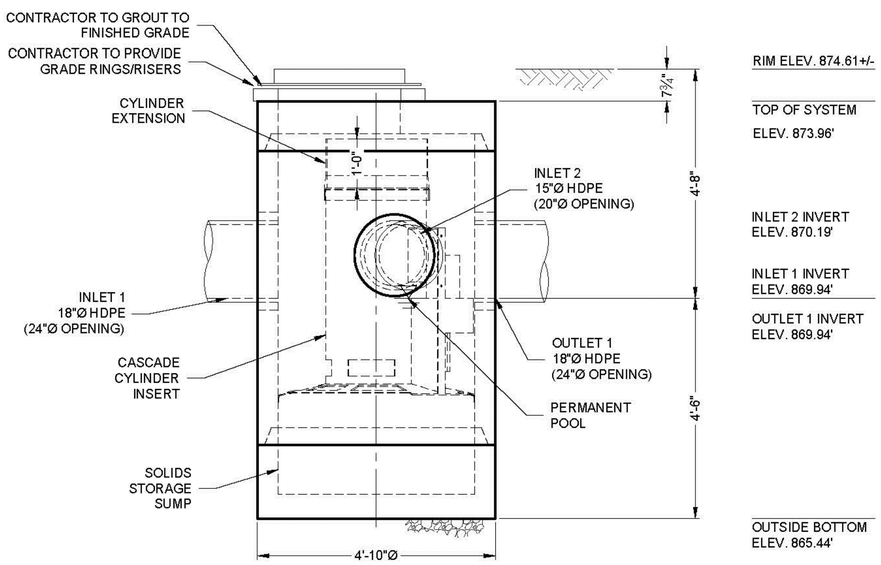
Sheet:
17



PLAN VIEW
(INTERNALS NOT SHOWN)



SECTION FOR PIPE ORIENTATION
(TOP SLAB NOT SHOWN)



ELEVATION VIEW

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	CS-4 FIBERGLASS CYLINDER INSERT, STD.	CONTECH
4	CS-4 ALUMINUM INSTALLATION BRACKET	CONTECH
1	1'-3" FT. CS-4 FIBERGLASS CYLINDER EXTENSION,	CONTRACTOR
1	SEALANT FOR JOINTS	CONTRACTOR
1	30"Ø x 4" FRAME AND COVER, EJ#41600483, OR EQUIV.	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	0.34 CFS
PEAK FLOW RATE	8.87 CFS
RETURN PERIOD OF PEAK FLOW	N/A YRS

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 5000 LBS.
OF 3 PIECES

MAXIMUM FOOTPRINT = 4'-10"Ø

CONTECH
PROPOSAL
DRAWING

NCI
LAYOUT 1A

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MARK	DATE	REVISION DESCRIPTION	BY
	—		

CS-4 - 732556-10
PUBLIC WORKS BLDG - ERLANGER, KY
ERLANGER, KY
for SYSTEM: WQ MH1

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
2201 W. Royal Lane, Suite 250, Irving, TX 75063
972-580-2000 972-580-2039 FAX
CASCADE separator™

DATE: 11/14/22	
DESIGNED: TNB	DRAWN: TNB
CHECKED: TNB	APPROVED: TNB
PROJECT No.: 732556	SEQUENCE No.: 10
SHEET: 1 OF 1	

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Item	Revision	Date	By	Chk.
1	REV BLDGS, ADD STORM	8-19-2022	ADT	JHV/AN
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3	REVISE PER REVIEW	11-21-22	ADT	MB/JHV

JAMES H. VIOX, III
CITY ENGINEER
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

PROP. PUBLIC WORKS BLDG
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

DETAILS- WATER QUALITY UNIT 1

Project No: | Checked:
Date: | Ref:
Sheet: 18

-OR EQUIVALENT-

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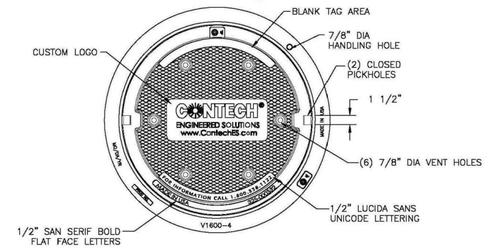
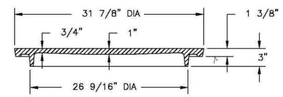
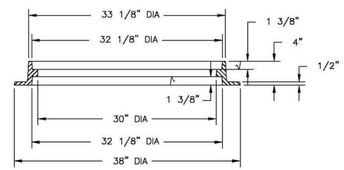
1810B4 V1600-4 Assembly





COVER SECTION



FRAME SECTION

Product Number
41600483

Design Features
-Materials
Cover
Gray Iron (CL35B)
Frame
Gray Iron (CL35B)

-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

Certification
- ASTM A48
- H25
-
-Country of Origin: USA

Major Components
00180783
41600410

Drawing Revision
5/9/2007 Designer: SMH
2/14/2022 Revised By: DAE

Disclaimer
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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CONTECH
ENGINEERED SOLUTIONS

Cascade Separator® Inspection and Maintenance Guide

CASCADE separator®

Maintenance

The Cascade Separator® system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects sediment and debris will depend upon on-site activities and site pollutant characteristics. For example, unstable soils or heavy winter sanding will cause the sediment storage sump to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (i.e. spring and fall). However, more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment wash-down areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

A visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet chamber, flumes or outlet channel. The inspection should also quantify the accumulation of hydrocarbons, trash and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided in this Inspection and Maintenance Guide.

Access to the Cascade Separator unit is typically achieved through one manhole access cover. The opening allows for inspection and cleanout of the center chamber (cylinder) and sediment storage sump, as well as inspection of the inlet chamber and slanted skirt. For large units, multiple manhole covers allow access to the chambers and sump.

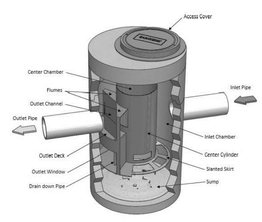
The Cascade Separator system should be cleaned before the level of sediment in the sump reaches the maximum sediment depth and/or when an appreciable level of hydrocarbons and trash has accumulated. If sorbent material is used, it must be replaced when significant discoloration has occurred. Performance may be impacted when maximum sediment storage capacity is exceeded. Contech recommends maintaining the system when sediment level reaches 50% of maximum storage volume. The level of sediment is easily determined by measuring the distance from the system outlet invert (standing water level) to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the chart in this document to determine if the height of the sediment pile off the bottom of the sump floor exceeds 50% of the maximum sediment storage.

Cleaning

Cleaning of a Cascade Separator system should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole cover and insert the vacuum tube down through the center chamber and into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The areas outside the center chamber and the slanted skirt should also be washed off if pollutant build-up exists in these areas.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. Then the system should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and to ensure proper safety precautions. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the Cascade Separator system must be done in accordance with local regulations. In many locations, disposal of evacuated sediments may be handled in the same manner as disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal. If any components are damaged, replacement parts can be ordered from the manufacturer.



Cascade Separator® Maintenance Indicators and Sediment Storage Capacities

Model Number	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	y^3	m^3
CS-3	3	0.9	1.5	0.5	0.4	0.3
CS-4	4	1.2	2.5	0.8	0.7	0.5
CS-5	5	1.3	3	0.9	1.1	0.8
CS-6	6	1.8	3.5	1	1.6	1.2
CS-8	8	2.4	4.8	1.4	2.8	2.1
CS-10	10	3.0	6.2	1.9	4.4	3.3
CS-12	12	3.6	7.5	2.3	6.3	4.8

Note: The information in the chart is for standard units. Units may have been designed with non-standard sediment storage depth.

A Cascade Separator unit can be easily cleaned in less than 30 minutes.

A vacuum truck excavates pollutants from the systems.

Cascade Separator® Inspection & Maintenance Log

Cascade Model: Location:

Date	Depth Below Invert to Top of Sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The depth to sediment is determined by taking a measurement from the manhole outlet invert (standing water level) to the top of the sediment pile. Once this measurement is recorded, it should be compared to the chart in the maintenance guide to determine if the height of the sediment pile off the bottom of the sump floor exceeds 50% of the maximum sediment storage. Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.
2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

SUPPORT

- Drawings and specifications are available at www.ContechES.com.
- Site-specific design support is available from our engineers.

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Cascade Separator Maintenance 06/21

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0 20' 30'
SCALE: 1" = 20'

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1	REV BLDGS, ADD STORM	4-19-2022	ADT	JHV/AV
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JAMES H. VIOX, III
CITY ENGINEER
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

PROP. PUBLIC WORKS BLDG
CITY OF ERLANGER
KENTON COUNTY, KENTUCKY

DETAILS- WATER QUALITY UNIT 2

Project No: Checked:
Date: Ref:
Sheet: 19

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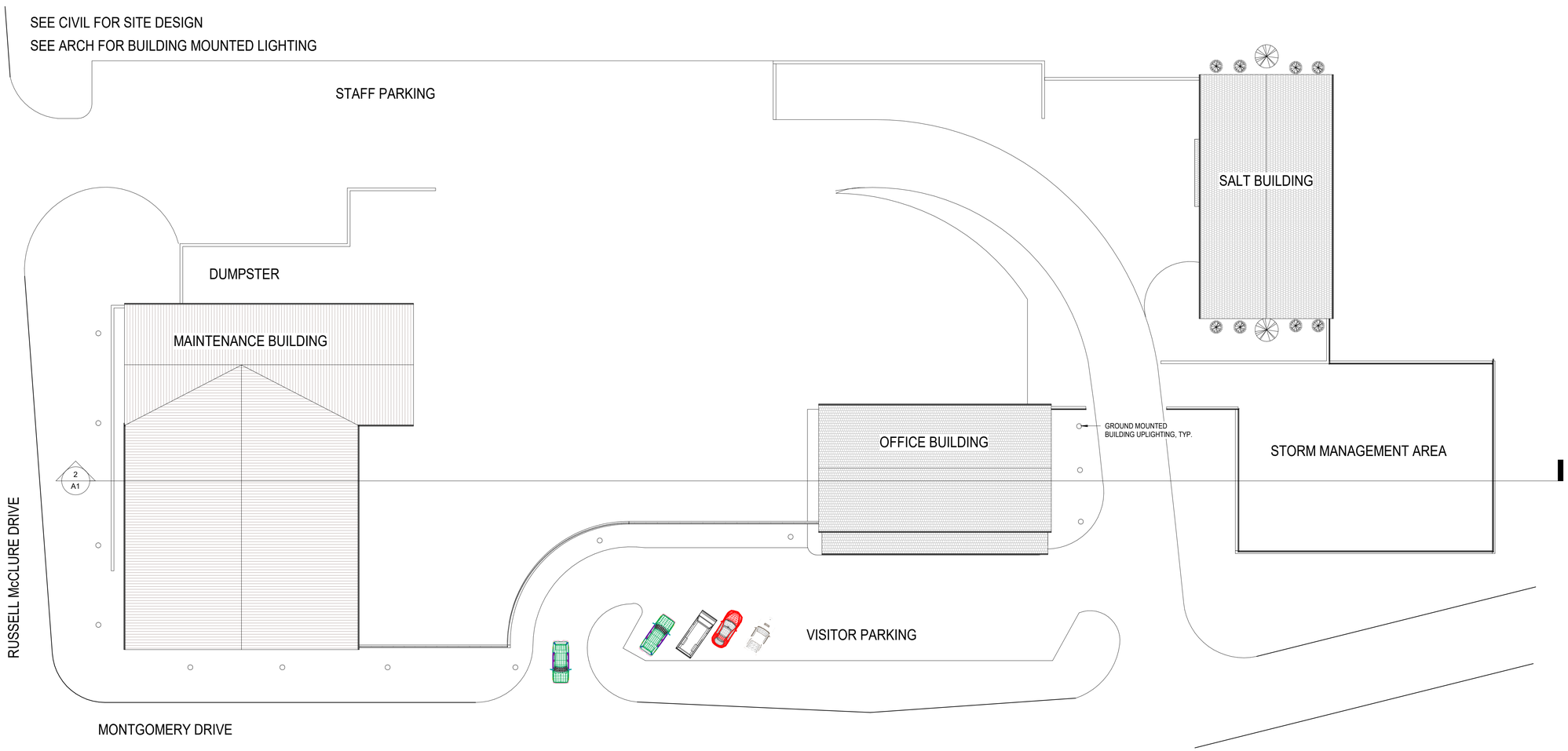
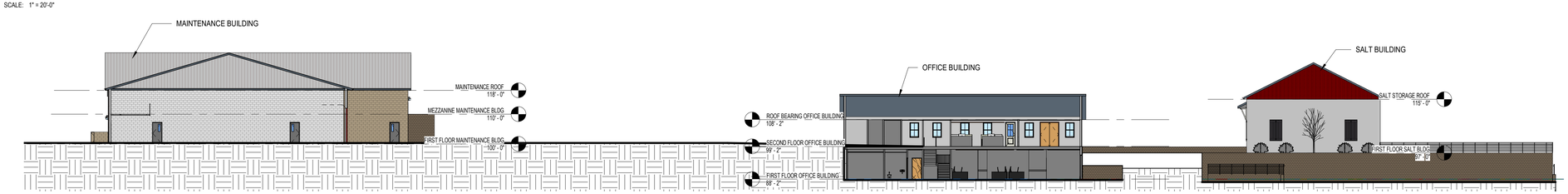


3 | SITE PLAN
A1 | SCALE: 1" = 20'-0"



2 | SITE SECTION
A1 | SCALE: 1" = 20'-0"

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ARCHITECTURE

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NEWPORT, KY 41071
www.PCA-ARCH.com
859.431.8612
ARCHITECT

NOT FOR CONSTRUCTION

ERLANGER PUBLIC WORKS FACILITY

MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE
ERLANGER, KY

NO.	DESCRIPTION	DATE
1	RFP DRAWINGS	12/12/2022

SCHEMATIC SITE

22-003

A1

PRINT DATE: 12/12/2022 11:54:53 AM

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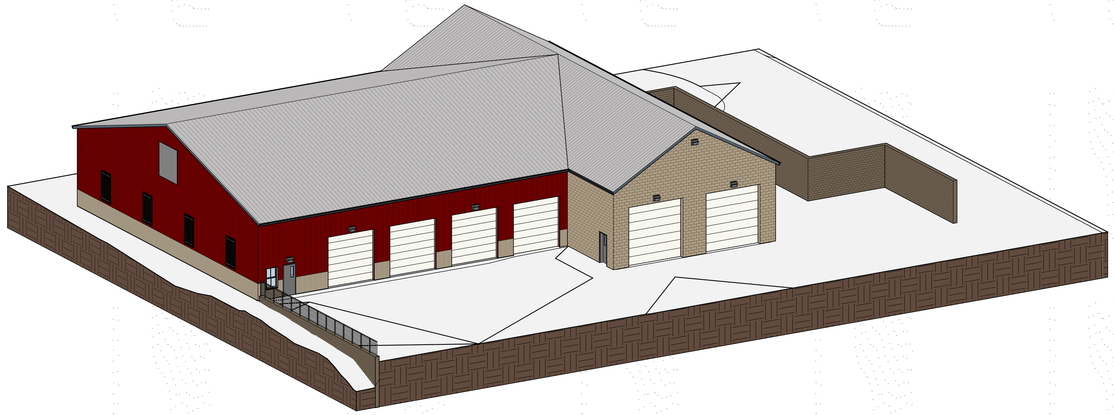
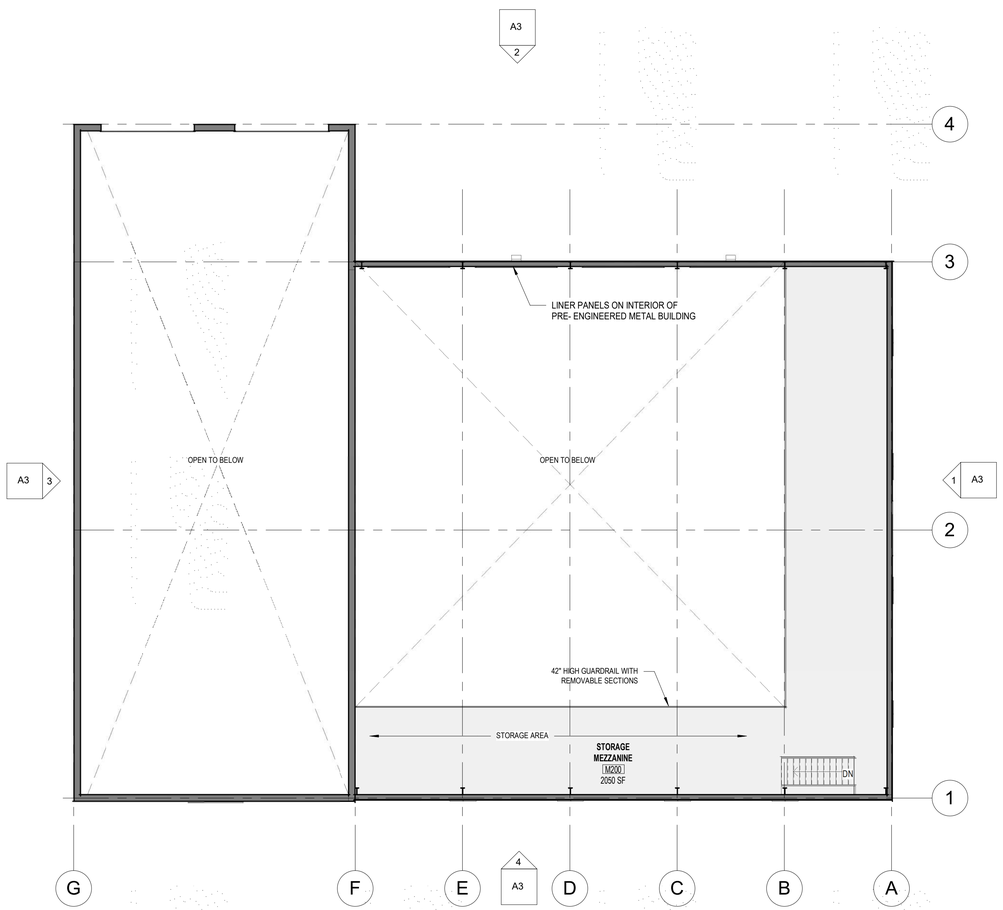
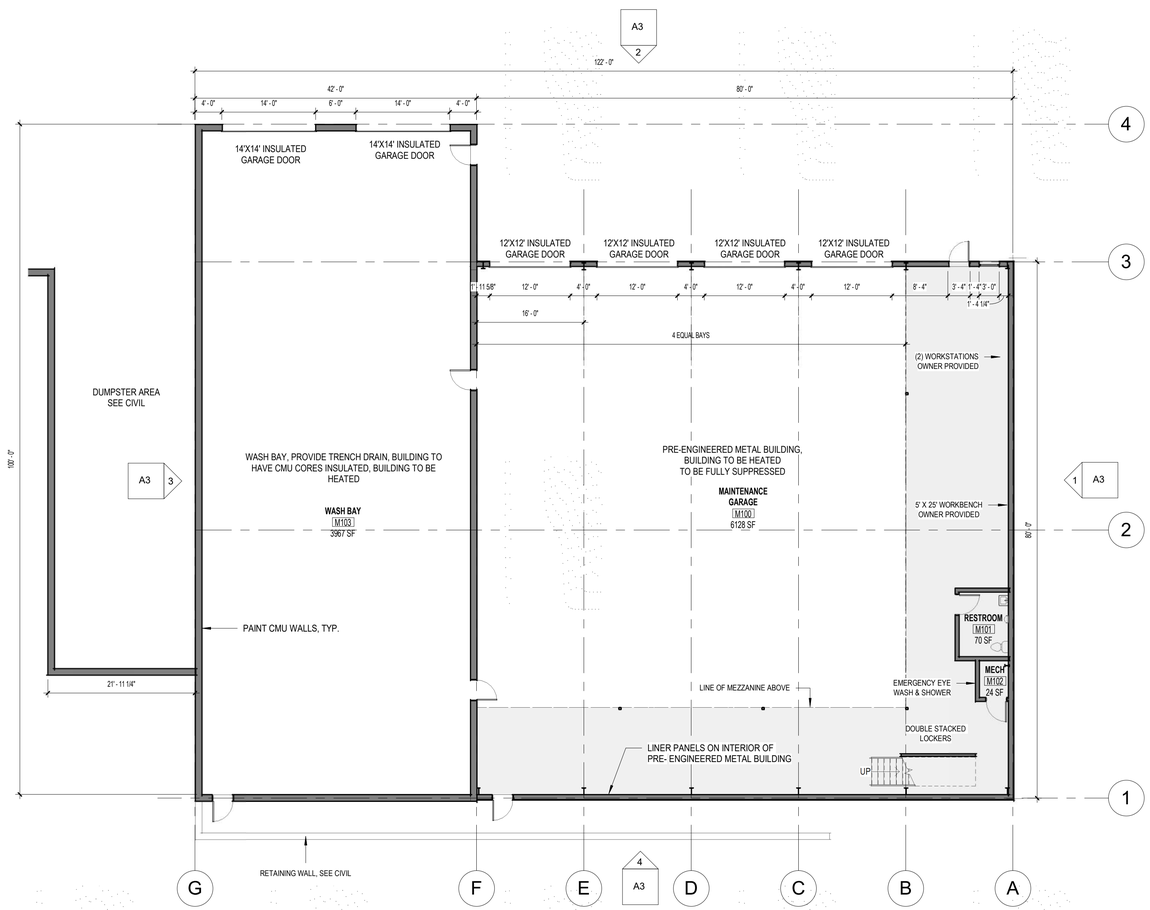


3 MAINTENANCE AXON
A2 SCALE:



2 MAINTENANCE - MEZZANINE
A2 SCALE: 3/32" = 1'-0"



1 MAINTENANCE - FIRST FLOOR PLAN
A2 SCALE: 3/32" = 1'-0"

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MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE
ERLANGER, KY

NO.	DESCRIPTION	DATE
1	RFP DRAWINGS	12/12/2022

SCHEMATIC
MAINTENANCE BLDG

22-003

A2

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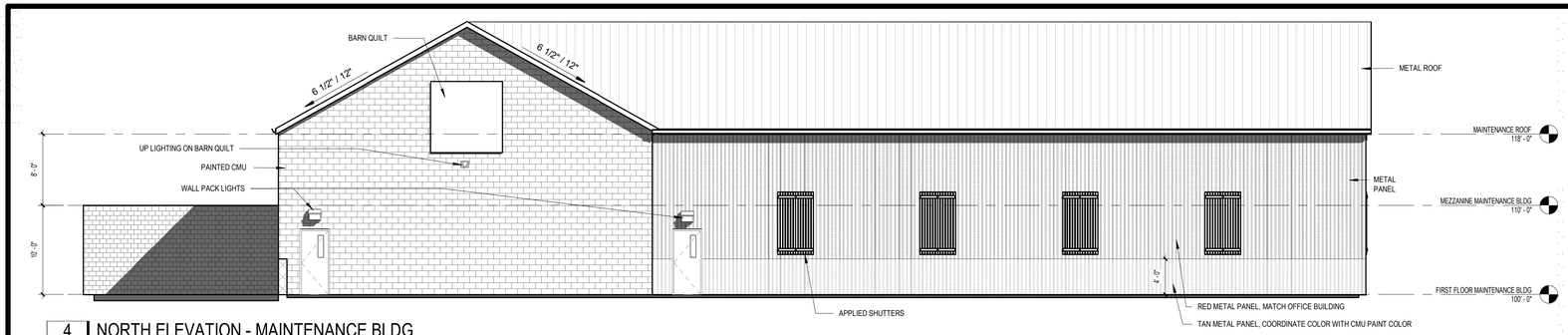
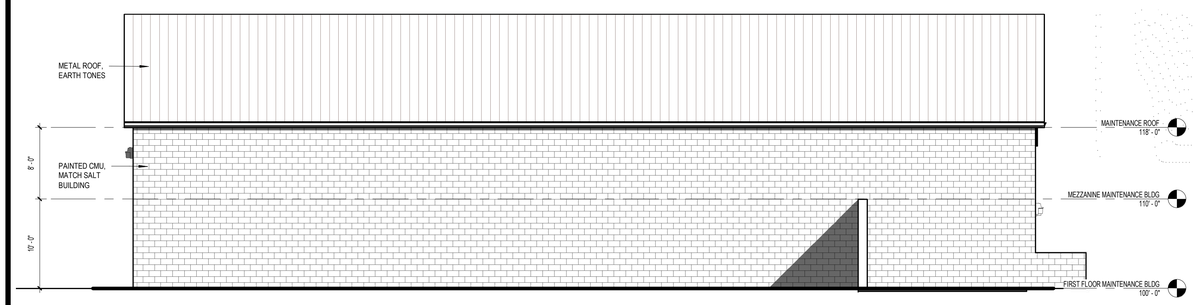


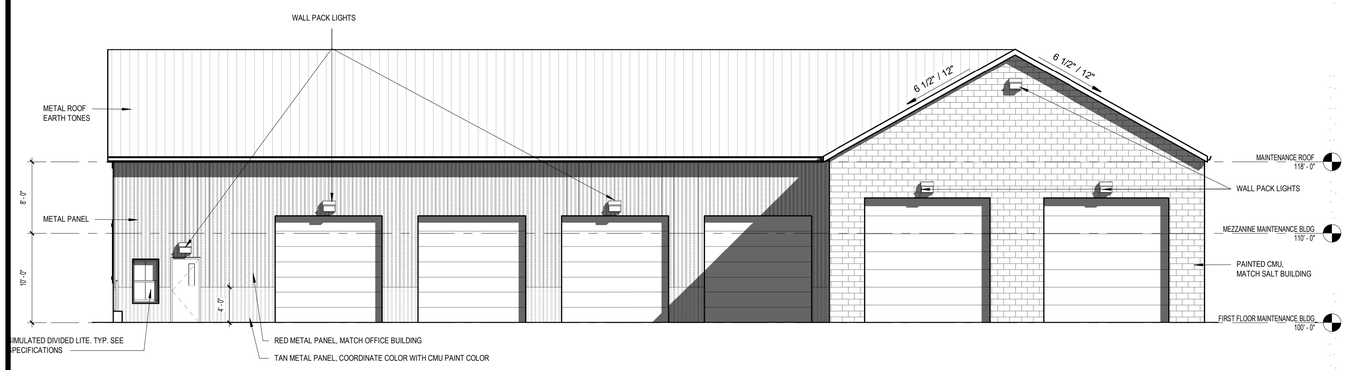
4 | A3 NORTH ELEVATION - MAINTENANCE BLDG

SCALE: 1/8" = 1'-0"



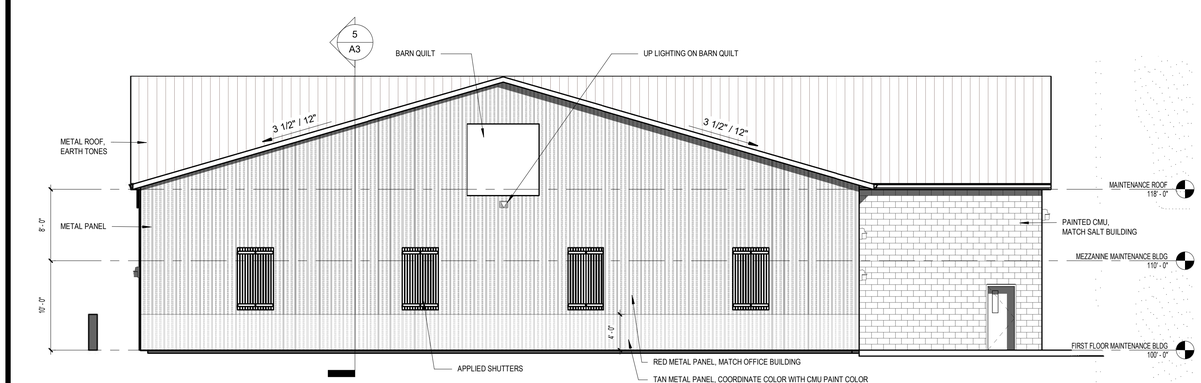
3 | A3 EAST ELEVATION - MAINTENANCE BLDG

SCALE: 1/8" = 1'-0"



2 | A3 SOUTH ELEVATION - MAINTENANCE BLDG

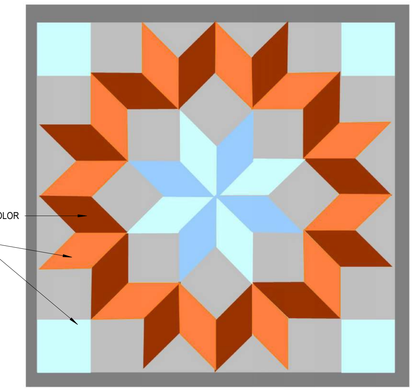
SCALE: 1/8" = 1'-0"



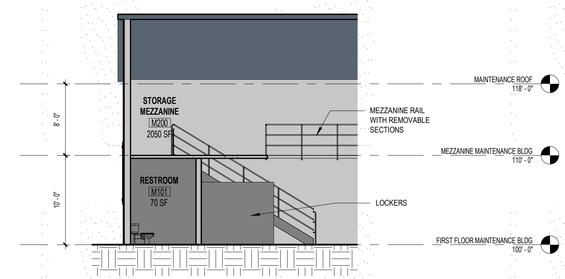
1 | A3 WEST ELEVATION - MAINTENANCE BLDG

SCALE: 1/8" = 1'-0"

SIDING COLOR INSPIRATION



BARN QUILT



5 | A3 SCHEMATIC MAINTENANCE SECTION

SCALE: 1/8" = 1'-0"

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SCHEMATIC MAINTENANCE BLDG

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A3

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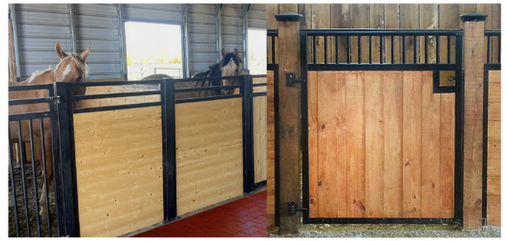
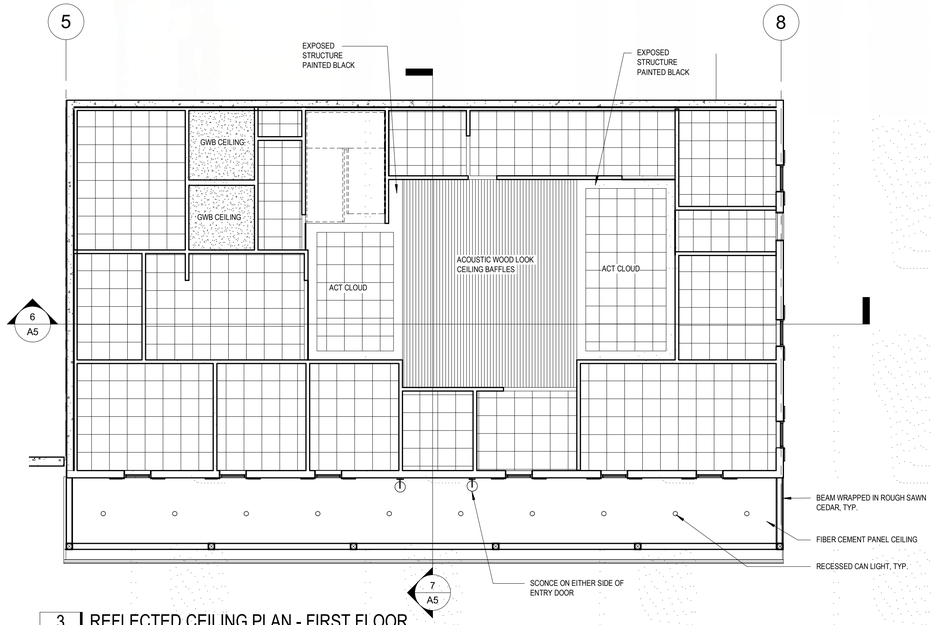
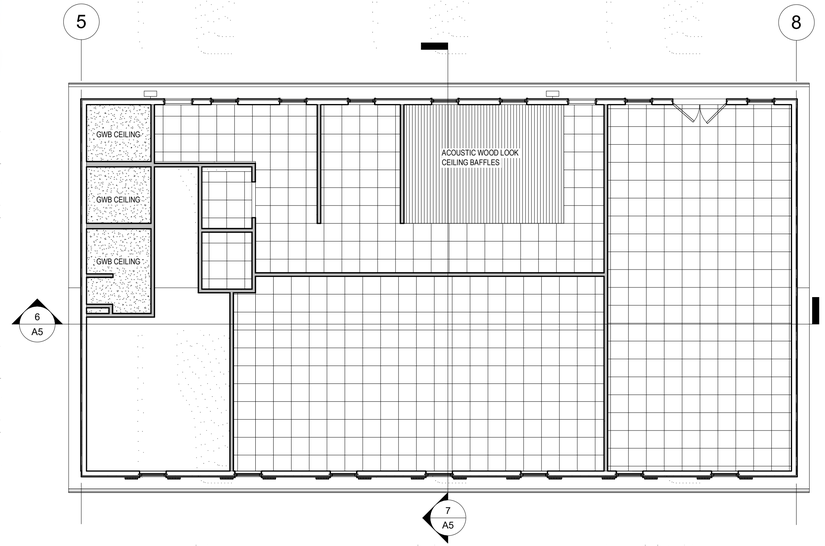
INSPIRATION IMAGE: BARN WOOD ACCENT WALLS



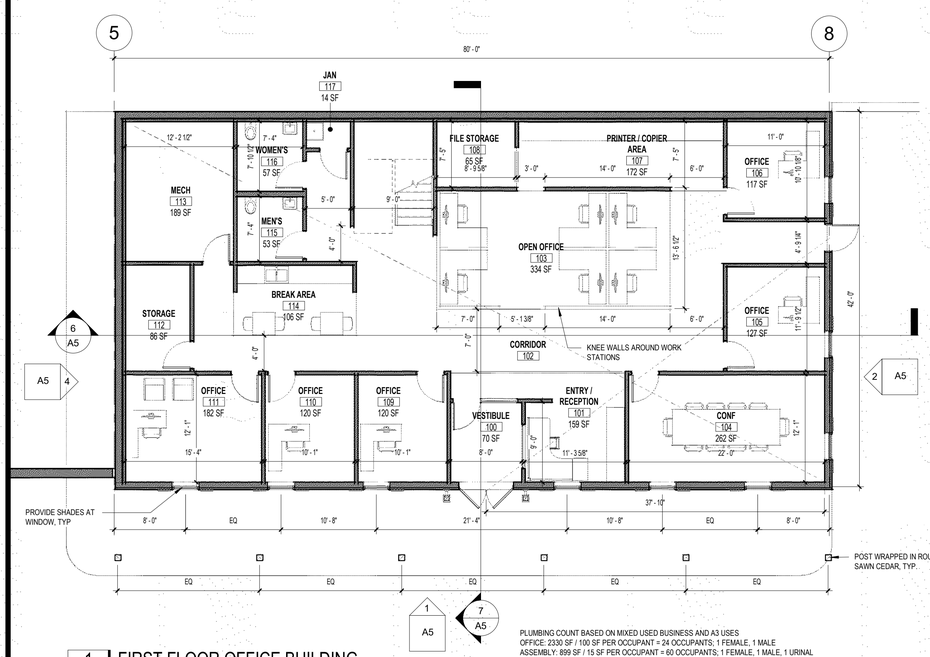
INSPIRATION IMAGE: KNEE WALLS AROUND OPEN OFFICES



3 REFLECTED CEILING PLAN - FIRST FLOOR
A4 SCALE: 1/8" = 1'-0"

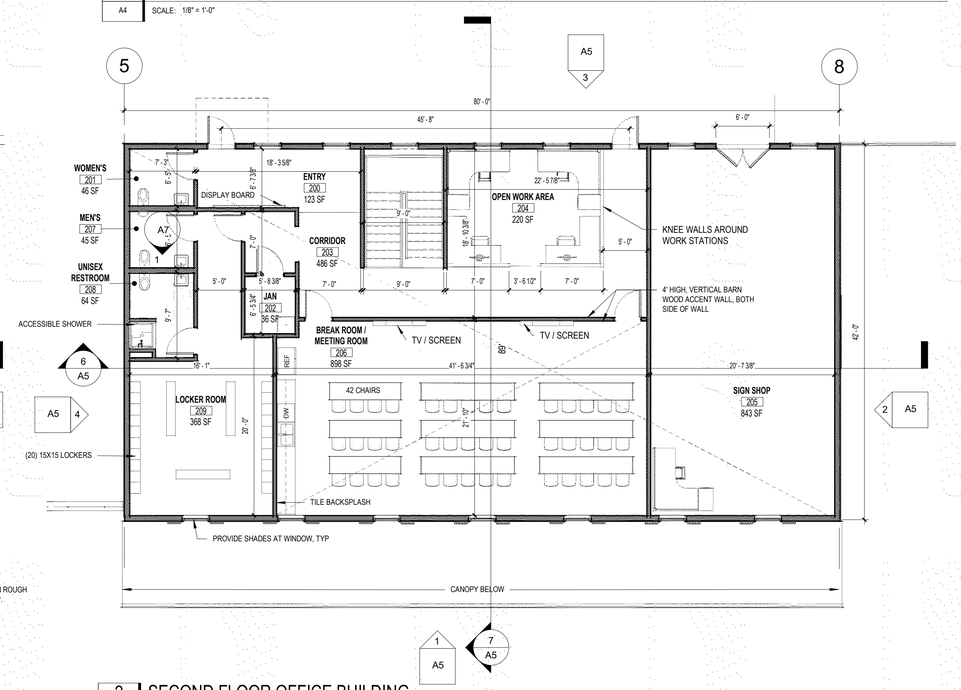


4 REFLECTED CEILING PLAN - SECOND FLOOR
A4 SCALE: 1/8" = 1'-0"



PLUMBING COUNT BASED ON MIXED USED BUSINESS AND A3 USES
OFFICE: 2330 SF / 100 SF PER OCCUPANT = 24 OCCUPANTS; 1 FEMALE, 1 MALE
ASSEMBLY: 899 SF / 15 SF PER OCCUPANT = 60 OCCUPANTS; 1 FEMALE, 1 MALE, 1 URINAL

1 FIRST FLOOR OFFICE BUILDING
A4 SCALE: 1/8" = 1'-0"



2 SECOND FLOOR OFFICE BUILDING
A4 SCALE: 1/8" = 1'-0"

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SCHEMATIC OFFICE BLDG

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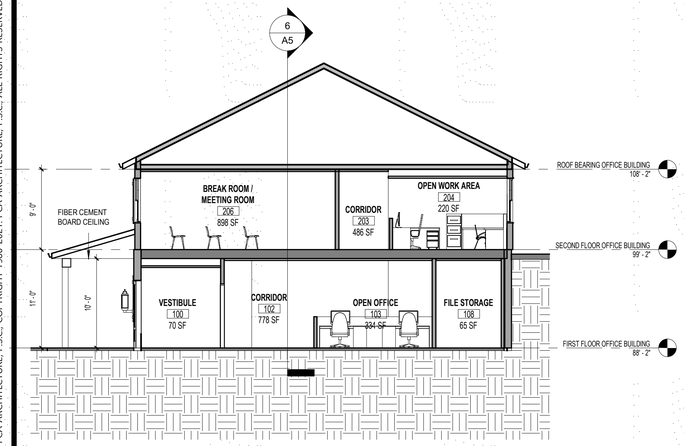
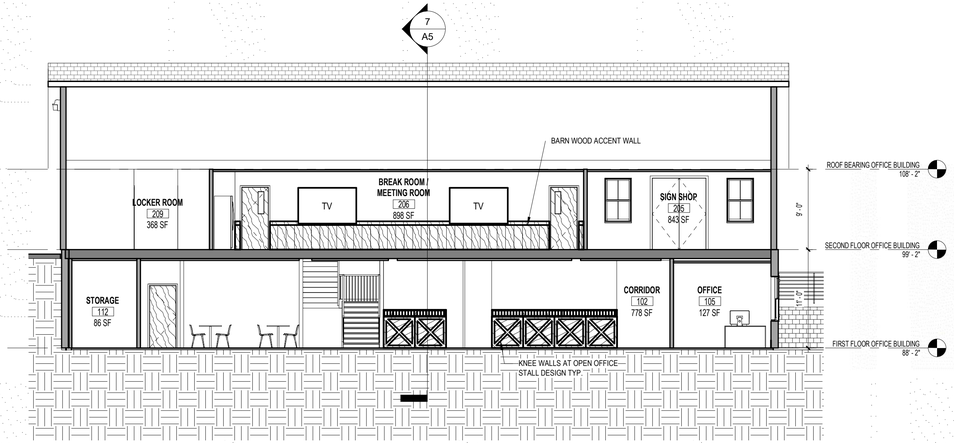
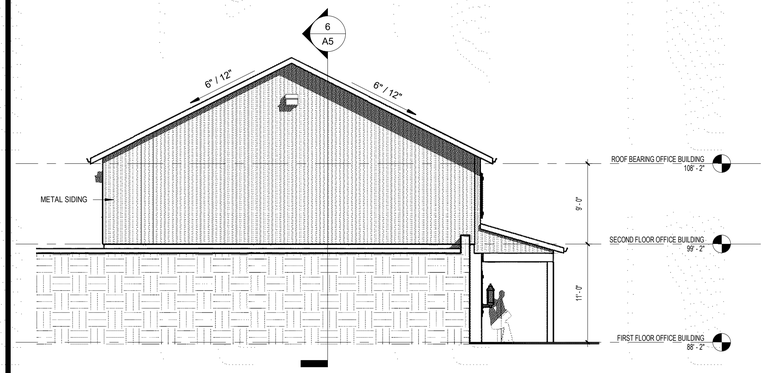


7 BUILDING SECTION
A5 SCALE: 1/8" = 1'-0"

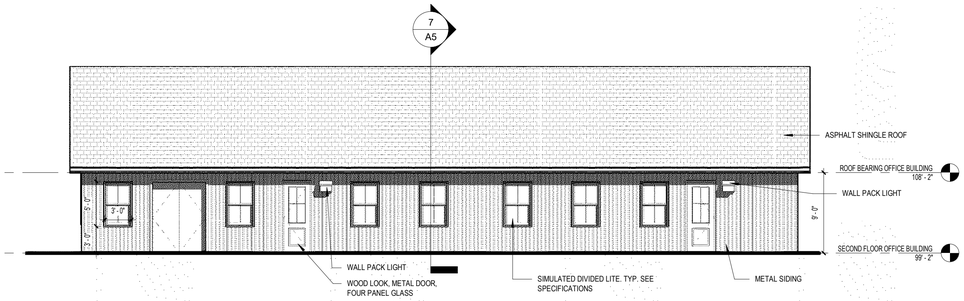


6 BUILDING SECTION
A5 SCALE: 1/8" = 1'-0"

5 OFFICE AXON - EXTERIOR
A5 SCALE:



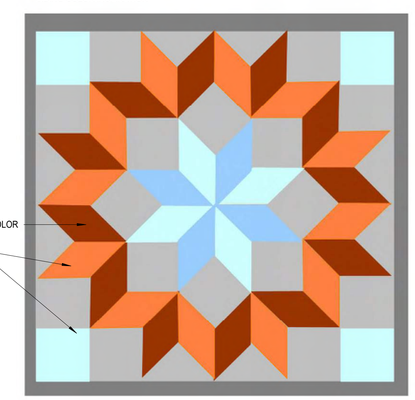
4 NORTH ELEVATION - OFFICE
A5 SCALE: 1/8" = 1'-0"



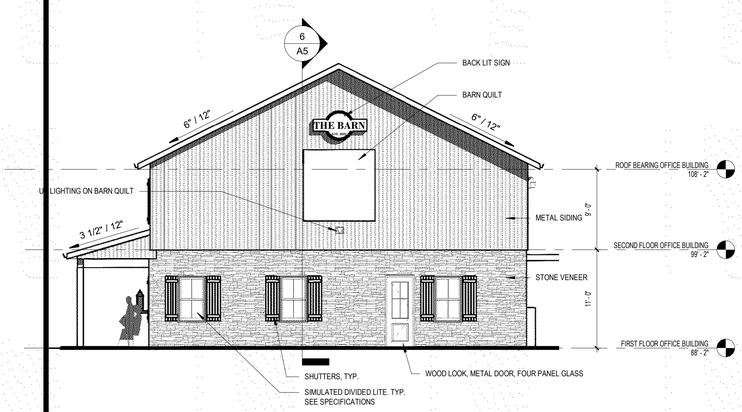
3 EAST ELEVATION - OFFICE
A5 SCALE: 1/8" = 1'-0"

SCONCE AND DOOR INSPIRATION

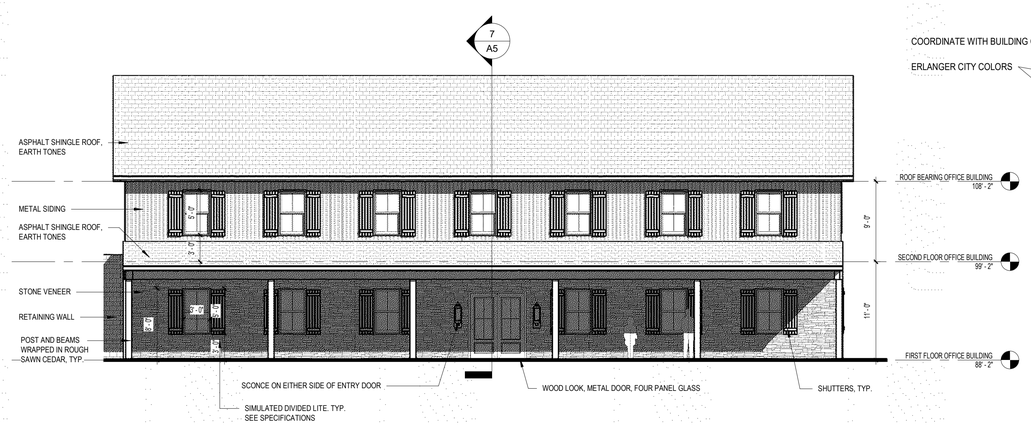
SIDING COLOR INSPIRATION



BARN QUILT



2 SOUTH ELEVATION - OFFICE
A5 SCALE: 1/8" = 1'-0"



1 WEST ELEVATION - OFFICE
A5 SCALE: 1/8" = 1'-0"

THE BARN
EST. 2022

SIGNAGE DESIGN

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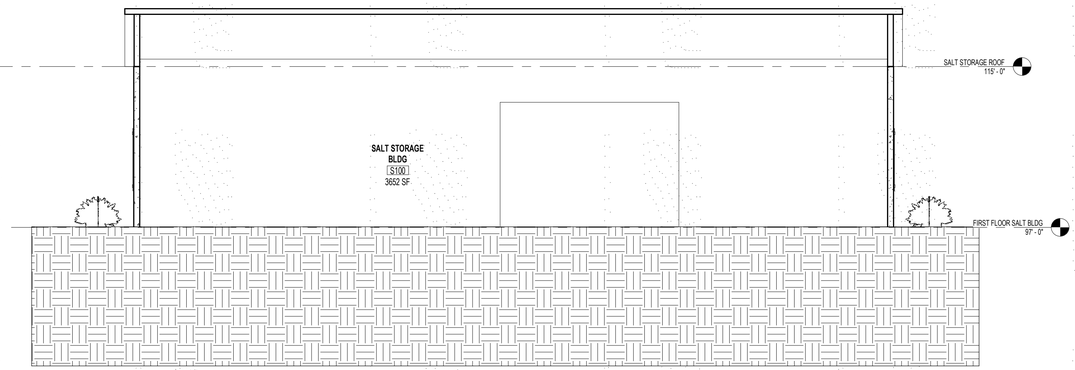
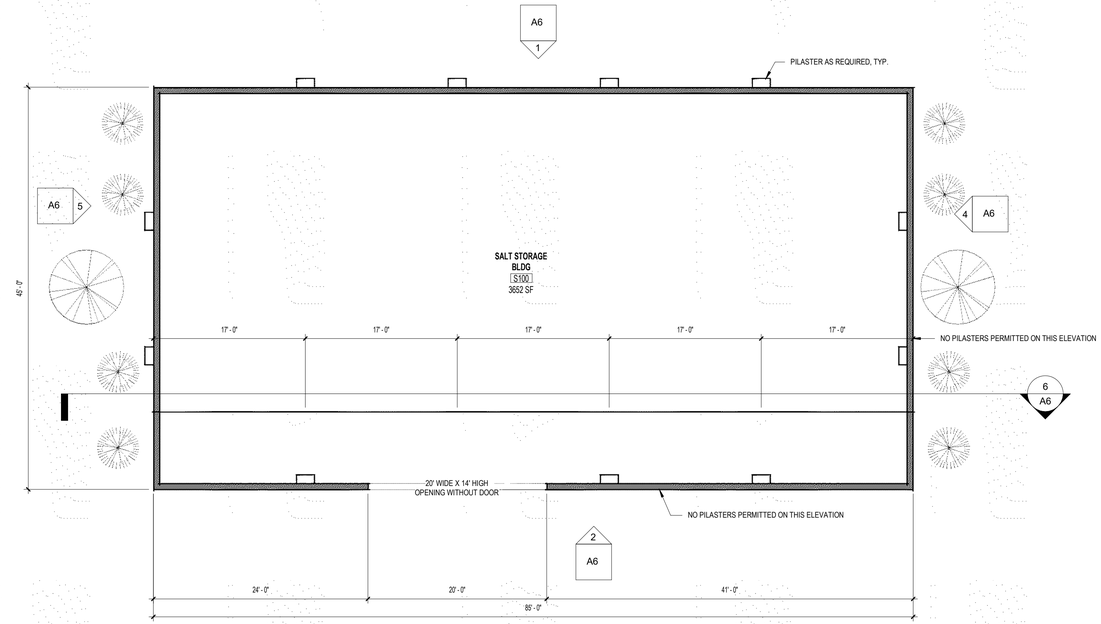
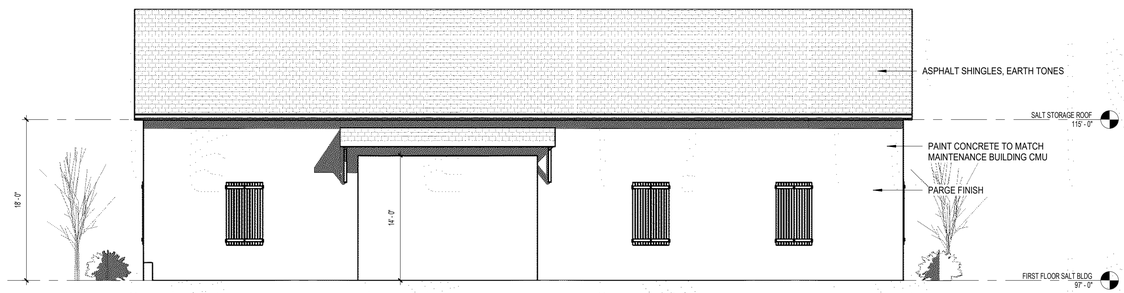
SALT STORAGE BUILDING



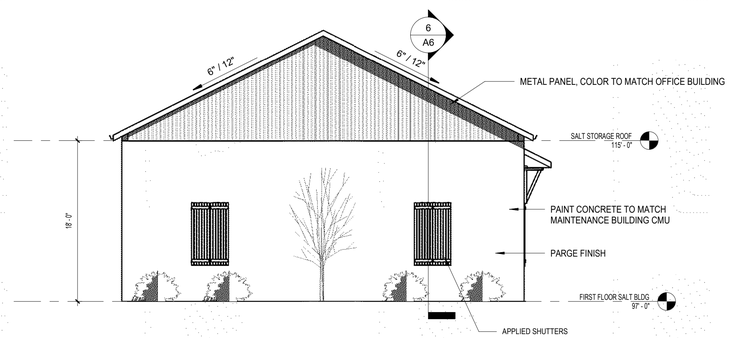
6 | A6 BUILDING SECTION
SCALE: 1/8" = 1'-0"



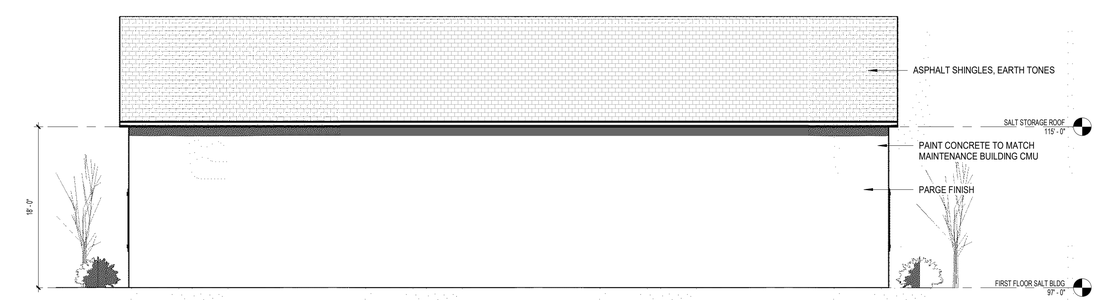
3 | A6 FIRST FLOOR SALT BLDG
SCALE: 1/8" = 1'-0"



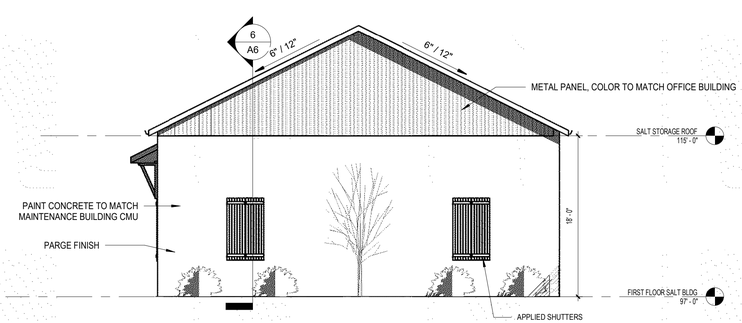
2 | A6 NORTH ELEVATION - SALT BLDG
SCALE: 1/8" = 1'-0"



5 | A6 EAST ELEVATION - SALT BLDG
SCALE: 1/8" = 1'-0"



1 | A6 SOUTH ELEVATION - SALT BLDG
SCALE: 1/8" = 1'-0"



4 | A6 WEST ELEVATION - SALT BLDG
SCALE: 1/8" = 1'-0"

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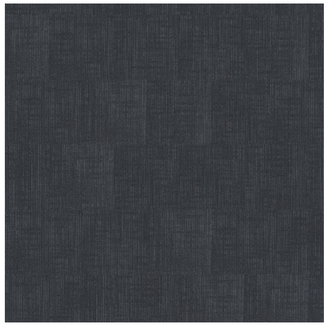
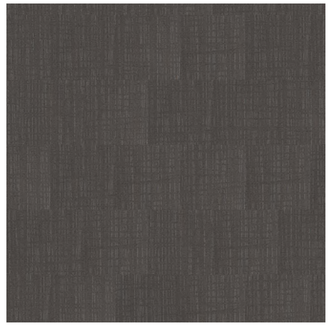
INTERIOR FINISHES

FLOOR - LVT-1



FLOOR - C-1



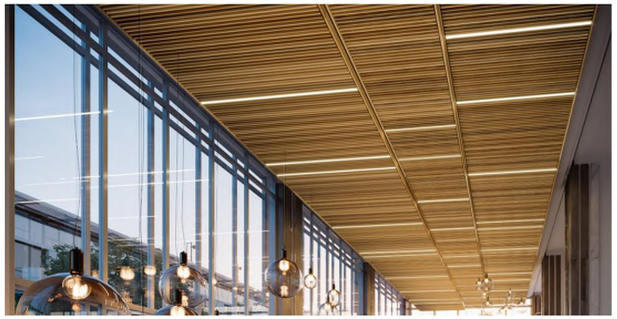
FLOOR - C-2

FLOOR - T-1

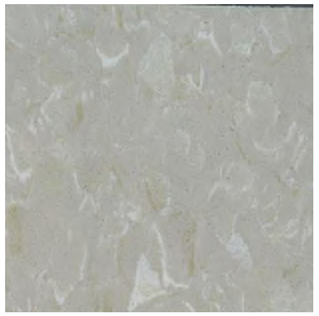
WALL - T-2

WALL - T-2

WALL - T-4



CEILING - WD - ACOUSTIC WOOD LOOK CEILING BAFFLES



FLOOR - VCT-1

EXTERIOR FINISHES

METAL PANEL

METAL PANEL

STONE VENEER

ABBREVIATION:

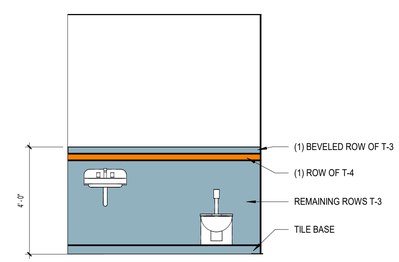
ATC: 2X2 ACOUSTIC TILE CEILING
C: CARPET
CONC: CONCRETE
GWB: GYSPUM WALL BOARD
LVT: LUXURY VINYL TILE
PT: PAINT, TBD
RB: 4" RUBBER BASE, TBD
T: TILE
TB: TILE BASE
VCT: VINYL COMPOSITION TILE
WD: WOODWORKS GRILLE - FORTE CEILING PANELS

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
100	VESTIBULE	LVT-1	RB	PT	ACT	
101	ENTRY / RECEPTION	LVT-1	RB	PT	ACT	
102	CORRIDOR	CONC	RB	PT	ACT	
103	OPEN OFFICE	LVT-1	RB	PT	WD	
104	CONF	C-1	RB	PT	ACT	
105	OFFICE	C-2	RB	PT	ACT	
106	OFFICE	C-2	RB	PT	ACT	
107	PRINTER / COPIER AREA	CONC	RB	PT	ACT	
108	FILE STORAGE	CONC	RB	PT	ACT	
109	OFFICE	C-2	RB	PT	ACT	
110	OFFICE	C-2	RB	PT	ACT	
111	OFFICE	C-2	RB	PT	ACT	
112	STORAGE	C-2	RB	PT	ACT	
113	MECH	CONC	RB	PT	ACT	
114	BREAK AREA	CONC	RB	PT/*T-2	ACT	*T-2 BACKSPLASH
115	MEN'S	CONC	RB	PT / *TILE	GWB	*TILE ON WET WALL UP TO 4'-0" SEE TYP. ELEVATION 1 ON SHEET 07
116	WOMEN'S	CONC	RB	PT / *TILE	GWB	*TILE ON WET WALL UP TO 4'-0" SEE TYP. ELEVATION 1 ON SHEET 07
117	JAN	CONC	RB	PT	GWB	
200	ENTRY	LVT-1	RB	PT	ACT	
201	WOMEN'S	T-1	TB	PT / *TILE	GWB	*TILE ON WET WALL UP TO 4'-0" SEE TYP. ELEVATION 1 ON SHEET 07
202	JAN	VCT-1	RB	PT	GWB	
203	CORRIDOR	LVT-1	RB	PT / * / *T-2	ACT	*: VERTICAL BARN WOOD WAINSCOT / *T-2 BACKSPLASH
204	OPEN WORK AREA	LVT-1	RB	PT	WD	
205	SIGN SHOP	VCT-1	RB	PT	ACT	
206	BREAK ROOM / MEETING ROOM	LVT-1	RB	PT / *	ACT	*: VERTICAL BARN WOOD WAINSCOT
207	MEN'S	T-1	TB	PT / *TILE	GWB	*TILE ON WET WALL UP TO 4'-0" SEE TYP. ELEVATION 1 ON SHEET 07
208	UNISEX RESTROOM	T-1	TB	PT / *TILE	GWB	*TILE ON WET WALL UP TO 4'-0" SEE TYP. ELEVATION 1 ON SHEET 07
209	LOCKER ROOM	T-1	TB	PT	ACT	
M100	MAINTENANCE GARAGE	CONC	-	-		
M101	RESTROOM	CONC	RB	PT		
M102	MECH	CONC	-	-		
M103	WASH BAY	CONC	-	PT		
M200	STORAGE MEZZANINE	-	-	-		
S100	SALT STORAGE BLDG	CONC	-	-		

INTERIOR FINISHES BASIS OF DESIGN

MATERIAL	MARK	SIZE	COLOR	COLLECTION	MANUFACTURER
FLOOR	LVT-1	7.25X48	ROYAL OAK - S45W2530	SPACIA-WOOD	MANNINGTON
FLOOR	C-1	24X24	WOAD - 35342	RAMIE	MANNINGTON
FLOOR	C-2	24X24	ACORN - 84334	HUSK	MANNINGTON
FLOOR	VCT-1	12X12	557 SHOOTING STAR CG	TARKETT VCT II	TARKETT
FLOOR	T-1	12X12	VITALITY WHITE	PRIME	DALTILE
WALL	T-2	10X10	STARLET - CH34	CHOREO	DALTILE
WALL	T-3	3X6	WATERFALL	COLOR WHEEL CLASSIC	DALTILE
WALL	T-4	3X6	ORANGE BURST	COLOR WHEEL CLASSIC	DALTILE
BASE	TB	COV	WATERFALL	COLOR WHEEL CLASSIC	DALTILE
CEILING	WD	12X48	WARM OAK	WOODWORKS GRILLE - FORTE CEILING PANELS	ARMSTRONG



1 / A7 TYP. RESTROOM ELEVATION

SCALE: 3/8" = 1'-0"

PCA ARCHITECTURE

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NEWPORT, KY 41071
www.PCA-ARCH.com
859.431.8612
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NOT FOR CONSTRUCTION

ERLANGER PUBLIC WORKS FACILITY

MONTGOMERY DRIVE AND RUSSELL McCLURE DRIVE
ERLANGER, KY

NO.	DESCRIPTION	DATE
1	RFP DRAWINGS	12/12/2022

SCHEMATIC MATERIALS

22-003

A7

PRINT DATE: 12/12/2022 11:55:19 AM