



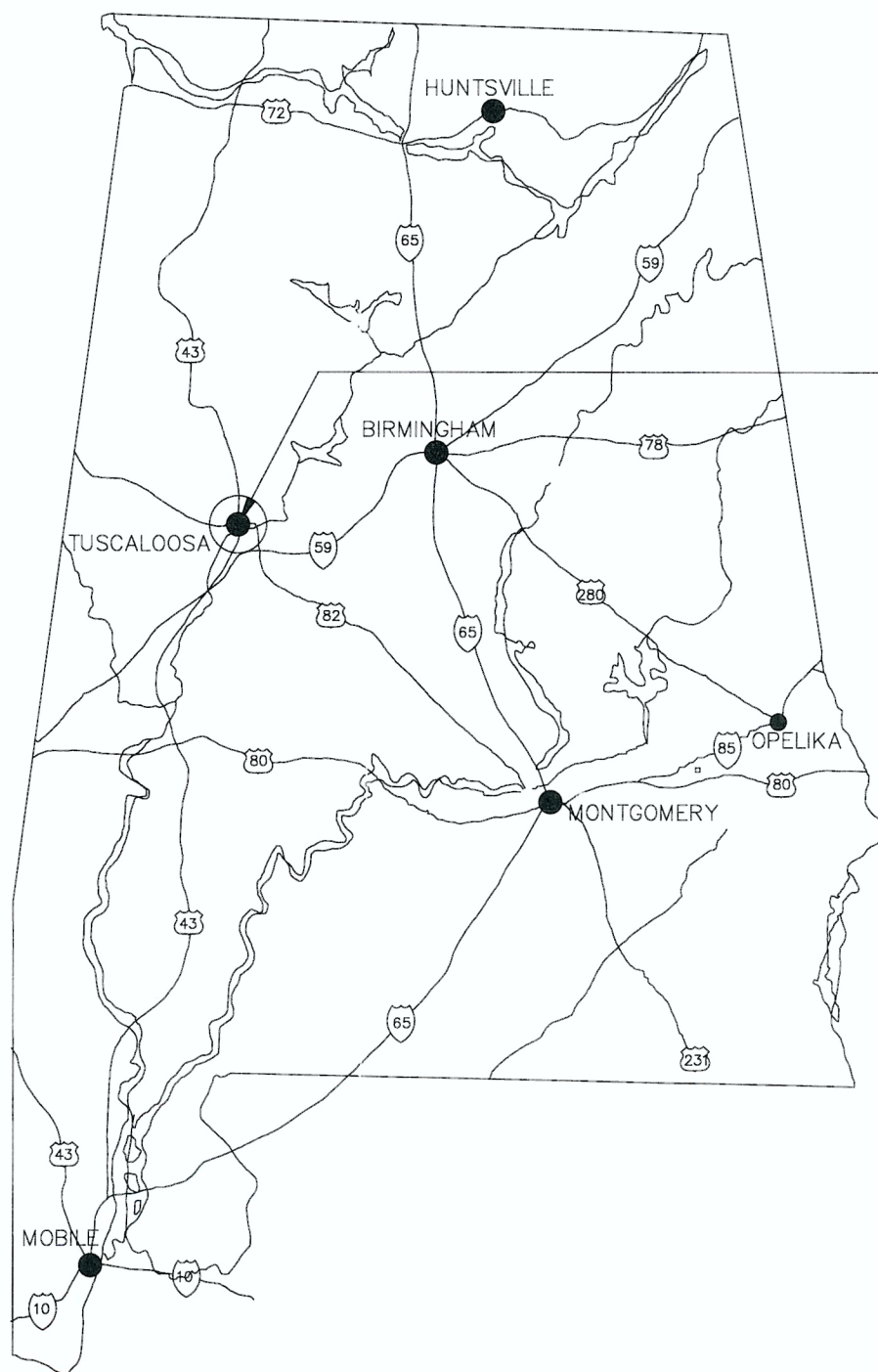
VA

U.S. Department  
of Veterans Affairs

TUSCALOOSA VA MEDICAL CENTER  
TUSCALOOSA, AL 35404

GENERAL  
CIVIL

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES



PROJECT  
VICINITY

VICINITY MAP  
NTS



CAMPUS MAP  
NTS

REVIEWER'S SIGNATURES

	7/25/24
HENRY HUDSON Digitally signed by HENRY HUDSON Date: 2024.07.19 13:23:38 -05'00'	
SAFETY MANAGER DATE	
JAMES HARDEMON Digitally signed by JAMES HARDEMON Date: 2024.07.17 07:38:28 -05'00'	
INFECTION CONTROL DATE	
GERALD BALLMAN Digitally signed by GERALD BALLMAN Date: 2024.07.17 17:00:37 -05'00'	
ENERGY ENGINEER DATE	

CONSULTANT

WileyWilson  
127 Nationwide Drive  
Lynchburg, VA 24502  
Phone: 434.947.1901  
www.wileywilson.com

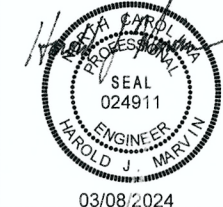
SPECIALIZED  
ENGINEERING  
SOLUTIONS  
Specialized Engineering Solutions  
1300 Baxter Street, Suite 230  
Charlotte, NC 28204

ARCHITECT/ENGINEER OF RECORD

Atriax  
www.atriaxgroup.com

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703 Main Avenue, SW  
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Phone: 828.315.9962  
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NC Engineering License No.: P-0214  
NC Architectural License No.: 51254

STAMP



Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans Affairs

Drawing Title  
COVER SHEET

Approved: Project Director

Phase  
100% CONSTRUCTION  
DOCUMENTS

Project Title  
PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

Location  
TUSCALOOSA VAMC, TUSCALOOSA, AL

Issue Date  
3/08/2024

Checked  
HJM

Drawn  
MM/TR

Project Number  
679-20-104

Building Number

Drawing Number

GI001



## INDEX OF DRAWINGS

[illegible]

Revisions:		Date:	Phone: 434.947.1901 www.wileywilson.com	Charlotte, NC 28204 Suite 140 Charlotte, NC 28217 (704) 522-6965 www.brippers.com	NO Lightening Cycles No. 1-0214 NC Architectural License No.: 51254	 03/08/2024	 U.S. Department of Veterans Affairs			03/08/2024	TG	MM/TR	03/02
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6/14/2009 12:39:03 PM

## PHASING

EE  
k, pllc  
Main  
Box 11  
e: 82  
828.3  
enginee  
architec

PER ARCHITECTURAL PLANS, RENOVATE SPACES AS INDICATED.

- 1.1. SPACES DESIGNATED AS NEW TR'S SHALL BE VACATED AND CLEARED OF FURNISHINGS BY TUSCALOOSA VA MEDICAL CENTER PRIOR TO CONSTRUCTION. NOTIFY COR IMMEDIATELY IF A CONFLICT EXISTS.
2. NEW PATHWAY INFRASTRUCTURE AND CABLING (PRIMARY AND REDUNDANT) SHALL BE PROVIDED TO THE NEW TELECOM ROOM LOCATIONS. THE NEW PATHWAY INFRASTRUCTURE AND CABLING SHALL BE ROUTED TO THE NEW DATA CENTER (B150) VIA THE NEW TELECOMMUNICATIONS DUCTBANK SYSTEM THAT WAS PROVIDED IN PHASE I.
3. NEW INSIDE PLANT PATHWAY INFRASTRUCTURE AND CABLING SHALL BE PROVIDED TO AND FROM THE NEW TELECOM ROOM LOCATIONS.
4. OUTSIDE PLANT FIBER TERMINATIONS SHALL BE COMPLETED IN BOTH BUILDING 150, COMPUTER SERVER ROOM, AND WITHIN THE TR.
5. HORIZONTAL CABLING TERMINATIONS SHALL BE COMPLETED WITHIN THE TR.
6. THE CONTRACTOR SHALL CREATE A CABLING SPREADSHEET FOR JACK CONNECTIONS IN EXISTING TR SPACES AND IDENTIFY THE CORRESPONDING PATCH PANEL PORTS AND SWITCH PORTS TO WHICH THEY ARE CONNECTED. THE SAME PORT ASSIGNMENTS/CONFIGURATIONS ON EXISTING SWITCHES WILL BE MOVED TO THE NEW TR LATER IN THE PROJECT.
7. AT THE WORK AREAS, THE CONTRACTOR SHALL REMOVE EXISTING WALL OUTLETS/JACKS BY UNPLUGGING ACTIVE EQUIPMENT PATCH CORDS AND LEAVING THE EXISTING CABLES AT THE SAME LOCATION WITHIN THE ROOM. THE CONTRACTOR SHALL THEN REMOVE THE OUTLET FACEPLATE, CUT THE EXISTING JACKS FROM THE EXISTING WIRING AND REMOVE THE EXISTING CABLING UP TO THE HORIZONTAL PATHWAY.
8. INSTALL THE NEW HORIZONTAL CABLES IN THE SAME PATHWAY/OUTLET BOX DOWN THE WALL AND TERMINATE NEW CABLES ON NEW JACKS AND NEW FACEPLATES.
9. CERTIFICATION TESTING OF THE ENTIRE STRUCTURED CABLING SYSTEM SHALL BE PERFORMED AND TEST REPORTS SUBMITTED FOR APPROVAL.
10. PROVIDE AS-BUILT DOCUMENTATION WITH JACK ID(S) TO THE COR FOR APPROVAL FOR NEW STRUCTURED CABLING SYSTEM.
11. LABEL BOTH ENDS OF THE INSTALLED CABLES/RACKS/PATCH PANELS.
12. PROVIDE NEW PATCH CORDS FOR THE TR SIDE OF THE STRUCTURED CABLING SYSTEM. THIS WILL CONSIST OF CAT 6A UTP COPPER PATCH CORDS FOR THE TR(S) AND 2-STRAND OS2 FIBER PATCH CORDS FOR THE MAIN SERVER ROOM (DATA CENTER).
13. ENSURE ALL NEW ELECTRONIC SECURITY, ELECTRICAL, FIRE PROTECTION AND HVAC SYSTEMS WITHIN THE NEW TR(S) ARE COMPLETE AND FULLY OPERATIONAL.
14. COORDINATE CUTOVER DATE FOR THE SERVING AREA OF THE TR(S) WITH THE COR (CUTOVER SCHEDULE MUST BE SUBMITTED AND APPROVED 30 DAYS IN ADVANCE OF PROPOSED CUTOVER FOR EACH TR). ESCORTS WILL NEED TO BE IDENTIFIED, AND TOUR OF DUTIES WILL NEED TO BE MODIFIED. ALL WORK TO BE DONE AFTER HOURS WILL DIRECTLY AFFECT TOUR OF DUTIES AND MUST BE COORDINATED WITH COR. TIER 3 SUPPORT WILL HAVE TO BE SCHEDULED BY THE COR AS WELL. IN ADDITION TO THE CUTOVER SCHEDULE THE FOLLOWING INFORMATION SHALL BE PROVIDED TO THE COR FOR DCEI AND HEFF USE:
  - TELECOMMUNICATIONS ROOM BUILDING NUMBER AND ROOM NUMBER
  - TYPE OF FIBER (OM4, OM5, OR OS2) INSTALLED.
  - PERMANENT LINK DISTANCE FROM TELECOMMUNICATIONS ROOM FIBER PATCH PANEL TO NEW DATA CENTER FIBER PATCH PANEL.
15. DURING THE CUTOVER, THE TUSCALOOSA VA WILL MOVE DATA SWITCHES FROM THE EXISTING LOCATIONS TO THE NEW TR(S). THE CONTRACTOR WILL ASSIST IN THE CUTOVER BY NEATLY INSTALLING PATCH CORDS IN THE TR FROM NEW PORTS TO THE SWITCH PORTS ASSIGNED BY THE VA. AT THE SAME TIME, THE CONTRACTOR WILL PROVIDE STAFF TO UNPLUG ACTIVE EQUIPMENT PATCH CORDS FROM THE EXISTING HORIZONTAL CABLING OUTLET/JACKS AND RE-PLUG INTO THE NEW HORIZONTAL CABLING OUTLETS/JACKS THAT HAVE ALREADY BEEN INSTALLED IN THEIR PERMANENT LOCATION. DURING CUTOVER, REMEDIATION OF IDENTIFIED MISSED TELECOMMUNICATION OUTLETS WILL TAKE PLACE BY THE NEXT BUSINESS DAY. NOTIFICATIONS FOR MISSED TELECOMMUNICATION OUTLETS WILL BE ACCOMPLISHED USING TROUBLE TICKETS AND PHONE CALLS FROM USERS. AFTER NOTIFICATION FROM THE COR OR SITE IT PERSONNEL THE CONTRACTOR WILL PERFORM REMEDIATIONS. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THAT THE LOCAL VA OIT STAFF CAN SUPPORT A MAXIMUM OF (2) TELECOM ROOM "CUTOVERS" AT A SINGLE TIME.
16. DEMOLISH THE OLD HORIZONTAL STRUCTURED CABLING SYSTEM (PATHWAY AND CABLING) FROM THE WORK AREA OUTLETS TO THE OLD TR(S).
- 16.1. THE CONTRACTOR SHALL PROTECT IN PLACE THE EXISTING FIBER AND COPPER BACKBONE PATHWAY AND CABLING THAT CONNECTS THE OLD TR(S) TO THE DATA CENTER AS OTHER BUILDING SYSTEMS UTILIZE THIS FIBER AND COPPER CABLING.
- 16.2. THE CONTRACTOR SHALL ONLY DEMOLISH THE HORIZONTAL CABLING ASSOCIATED WITH THE IT VOICE AND DATA NETWORK WHERE OUTLETS WERE REPLACED WITH NEW CABLES. THE EXISTING STRUCTURED CABLING SYSTEM ALSO INCLUDES SYSTEMS THAT ARE NOT INCLUDED IN THIS INFRASTRUCTURE REPLACEMENT SO THE CONTRACTOR MUST TAKE CARE NOT TO CUT OR DISTURB OTHER CABLING THAT IS CURRENTLY RUN WITH THE OLD IT VOICE AND DATA CABLING THAT IS BEING REPLACED. THIS MAY MEAN THAT SECTION OF OLD PATHWAY WILL REMAIN AS IT WILL STILL SERVE SYSTEMS WHERE INFRASTRUCTURE WILL NOT BE REPLACED BY THIS PROJECT.
- 16.3. ALL REPLACED IT VOICE AND DATA HORIZONTAL CABLING MUST BE DEMOLISHED IN ITS ENTIRETY. NOTHING CAN BE CUT AND ABANDONED IN PLACE.
- 16.4. PRE-EXISTING ABANDONED CABLE MAY ALSO BE DEMOLISHED.

File Path





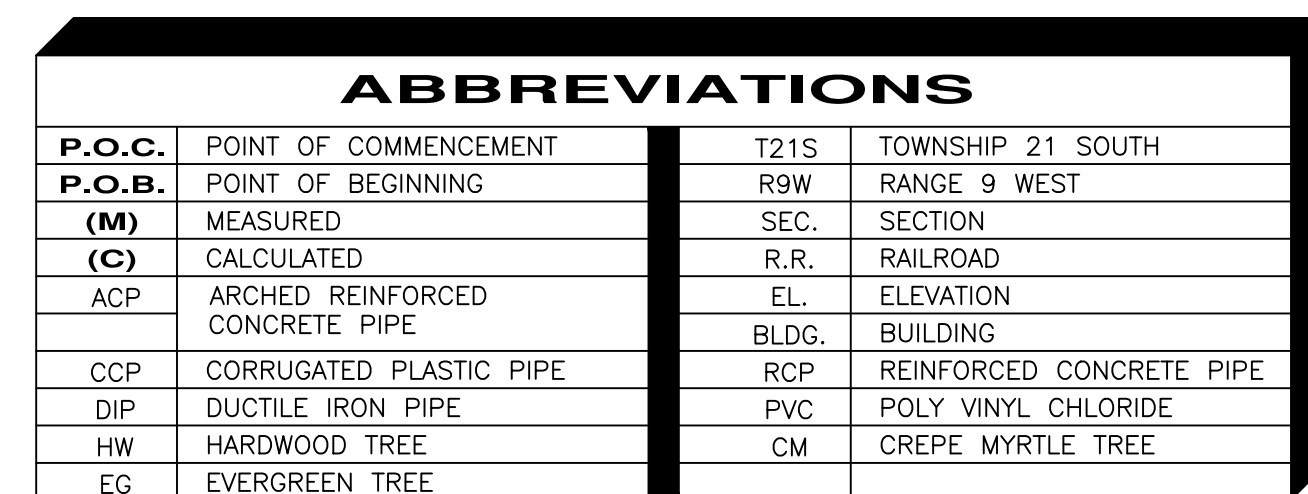


VA FORM 08-6231	1	2	3	4	5	6	7	8	9	10
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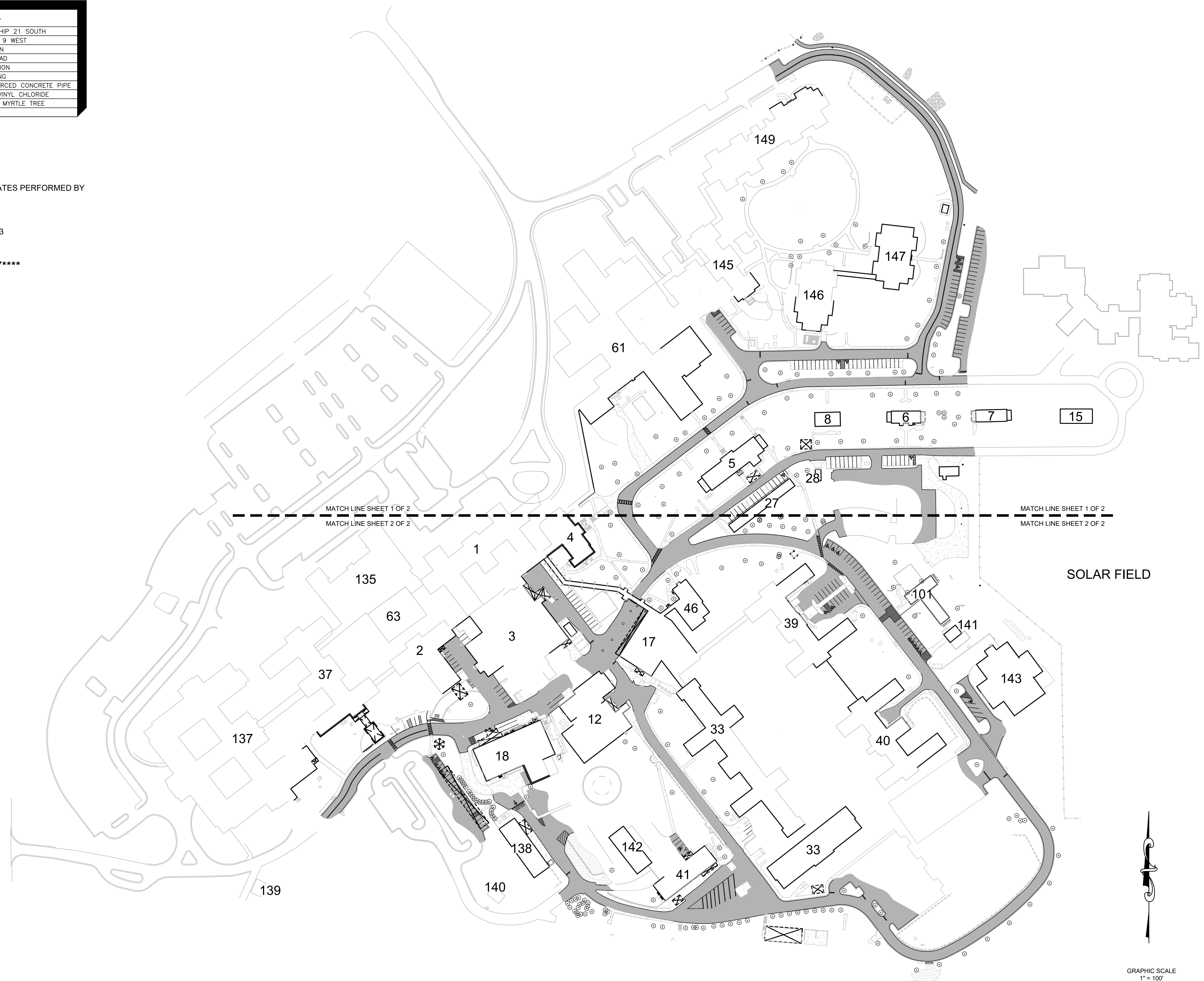






1. SITE TOPOGRAPHIC SURVEY AND UTILITIES LOCATES PERFORMED BY GONZALEZ-STRENGTH & ASSOCIATES INC.
2. FINAL SURVEY FILE DATED 03-18-2022
3. DATA CENTER SURVEY FILE DATED 07-28-2023
4. ADDITIONAL SURVEY DATA FILE DATED 12-13-2023

\*\*\*\*THIS IS NOT A BOUNDARY SURVEY\*\*\*\*



1. All easements and rights of way of which the surveyor has knowledge are shown hereon; others may exist of which the surveyor has no knowledge and of which there is no observable evidence. No Title Commitment performed, certified to or supplied by client. Without said Title Commitment no guarantee can be made by the surveyor as to the location of easements.
2. All utilities of which the surveyor has knowledge are shown hereon. Readings of underground utilities were drawn based on field markings provided by Utility Marking LLC (3042 Gala Trail, Snellville, GA 30039, (770) 357-1946) which should be considered approximate. The telephone numbers for the Alabama Line Location Center (MISSALL) are 252-4444 (Birmingham area) and (800) 292-8525 (elsewhere). Note to the client, insurer, and lender— With regard to underground utilities, information from the sources above will be combined with observed evidence of utilities to develop a view of the subject property. However, lacking excavation, the exact location of underground facilities cannot be accurately, completely, and reliably depicted. In addition, in some jurisdiction, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor accepts no responsibility for the location of utilities. Where additional or more detailed information is required, the client is advised that excavation may be necessary.
3. No attempt has been made and no guarantees are hereby given as to the location of sub-surface foundations.
4. Contours and spot elevations shown hereon are based on U.S.G.S. datum (NAVD 88). Bench Mark PID #D12228 and elevation of 325.53.
5. As to the Flood Insurance Rate Map (FIRM) for Tuscaloosa County, Alabama (community-panel number 11250 0528 G, dated January 16, 2014), all of the subject property lies within Zone X, defined as "areas determined to be outside the 0.2% annual chance floodplain."
6. North arrow and bearings shown hereon are based on Transverse Mercator Projection - Alabama West Zone 18 S 83° 00' 00" E 2011 using Geodetic Positional System (GPS) and derived by static observation. Using Base Station: Designation: AL 50 CORS ARP, PID D12228 Combined Factor: 0.99991775 Convergence Factor: -0 00 0.0 0



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[illegible]

File Path

VA FORM 08-6231



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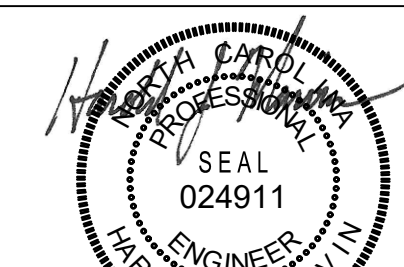


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NC Engineering License No.: P-0214  
NC Architectural License No.: 51254

**STAMP**



03/08/2024

Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans Affairs

EXISTING CONDITIONS - SITE  
TOPOGRAPHIC SURVEY

Approved: Project Director

100% CONSTRUCTION  
DOCUMENTS

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

Location	TUSCALOOSA VAMC TUSCALOOSA AL

Issue Date	3/08/2024
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Checked
HJM

Drawn  
JTK

Project Number  
679-20-104

Building Number

	Drawing Number
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V-101



ABBREVIATIONS			
P.O.C.	POINT OF COMMENCEMENT	T21S	TOWNSHIP 21 SOUTH
P.O.B.	POINT OF BEGINNING	R9W	RANGE 9 WEST
(M)	MEASURED	SEC.	SECTION
(C)	CALCULATED	R.R.	RAILROAD
ACP	ARCHED REINFORCED CONCRETE PIPE	EL.	ELEVATION
CCP	CORRUGATED PLASTIC PIPE	BLDG.	BUILDING
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
HW	HARDWOOD TREE	PVC	POLY VINYL CHLORIDE
EG	EVERGREEN TREE	CM	CREPE MYRTLE TREE

\*\*\*\*THIS IS NOT A BOUNDARY SURVEY\*\*\*\*

1 EXISTING CONDITIONS - SITE TOPOGRAPHIC SURVEY - AREA 1

SCALE: 1:50



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CONSULTANT		ARCHITECT/ENGINEER OF RECORD		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
Wiley Wilson		Atriax		VA		EXISTING CONDITIONS - SITE TOPOGRAPHIC SURVEY - AREA 1		100% CONSTRUCTION DOCUMENTS		PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES		679-20-104	
Specialized Engineering Solutions		www.atriaxgroup.com		U.S. Department of Veterans Affairs		Approved: Project Director				Location TUSCALOOSA VAMC, TUSCALOOSA, AL		Building Number	
Date:		03/08/2024								Issue Date 3/08/2024		Drawing Number V-102	
Revisions:										Checked HJM		Drawn JTK	





1

SCALE: 1:5



Know what's below  
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Project Number	679-20-104
Building Number	
Drawing Number	V-103



PROJECT DESCRIPTION:

THE E.H.R.M. (ELECTRONIC HEALTH RECORDS MODERNIZATION) PROJECT INVOLVES THE DEMOLITION OF GREENHOUSE (BLDG. 101), CONSTRUCTION OF NEW CAMPUS DATA CENTER (BLDG. 151), CONSTRUCTION OF REINFORCED CONCRETE DUCT BANKS, ROUTING OF NEW FIBER OPTIC NETWORK, AND OTHER COMMUNICATIONS ROOMS AND EQUIPMENT FOR THE TUSCALOOSA VA MEDICAL CENTER.

CONSTRUCTION WORK SHALL AVOID DISRUPTIONS TO EXISTING SITE UTILITIES AND SERVICES WHERE POSSIBLE. PROJECT WILL REQUIRE INSTALLING AND MAINTAINING LINEAR EROSION CONTROL MEASURES AT THE LIMITS OF DISTURBANCE. THE DEMOLITION OF EXISTING FEATURES INCLUDES THE REMOVAL OF ASPHALT, CONCRETE, OTHER HARDSCAPES, AND SITE FEATURES TO INSTALL THE DUCT BANK. EXISTING UTILITIES ARE TO BE PROTECTED IN PLACE DURING CONSTRUCTION. IF DISRUPTION TO SERVICES IS REQUIRED, THE CONTRACTOR SHALL PROVIDE NOTICE TO THE COR NO LESS THAN 72 HOURS PRIOR TO THE SCHEDULED DISRUPTION. CONTRACTOR SHALL COORDINATE ANY UTILITIES OUTAGES WITH THE COR. MINOR GRADING FOR DUCT BANK CONSTRUCTION WILL BE REQUIRED.

UPON COMPLETION OF THE DUCT BANK, EXCAVATIONS SHALL BE BACKFILLED IN APPROPRIATE LIFTS, AND COMPACTED AS REQUIRED TO MEET THE RESPECTIVE CONSTRUCTION REQUIREMENTS FOR UTILITIES, PAVEMENT, OR LANDSCAPING AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO COMPLETE THE PROJECT AS DESIGNED.

CONTRACTOR SHALL RESTORE ALL SITE FEATURES DISTURBED BY CONSTRUCTION TO MATCH THE PRE-EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO: ASPHALT AND CONCRETE PAVEMENT, CURB & GUTTER, SIDEWALKS UTILITIES, IRRIGATION SYSTEMS, LANDSCAPING, GRASS, ADA RAMPS, STAIRS, SLABS, FENCE, SIGNS, PAVEMENT MARKINGS, REFLECTORS, AND ALL OTHER SITE FEATURES DISTURBED/DEMOLISHED DURING CONSTRUCTION. ALL VA PROPERTY RELOCATED DURING CONSTRUCTION SHALL BE REINSTALLED TO MATCH EXISTING, OR AS DIRECTED BY THE COR.

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS (EROSION AND SEDIMENT CONTROL, NPDES, LAND DISTURBANCE, ETC.) REQUIRED FOR CONSTRUCTION OF THE DATA CENTER AND DUCTBANK NETWORK.
- CONTRACTOR SHALL SCHEDULE ALL ON-SITE INSPECTIONS WITH THE PROJECT COR.
- CONTRACTOR SHALL COMPLY WITH ALL INTERNATIONAL BUILDING CODE (IBC), PLUMBING, ELECTRICAL CODES, & VA STANDARDS.
- CONTRACTOR SHALL COMPLY WITH OSHA, EPA, NFPA, AND ALL OTHER APPLICABLE SAFETY CODES AND REGULATIONS AT ALL TIMES.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- ALL WORK SHALL BE PER CONTRACT DRAWINGS, SPECIFICATIONS, AND DETAILS. SHOULD WORK DEViate OR CHANGES BE NECESSITATED, CONTACT THE COR IMMEDIATELY.
- PROVIDE FINISH QUALITY REPAIR AS A RESULT OF ALL DEMOLITION.
- SUBMITTALS AND COR APPROVAL REQUIRED ON ALL NEW MATERIALS.
- VA HAS DEDICATED CONTRACTOR LAYDOWN YARDS ON SITE. CONTRACTOR TO CONTACT VA FOR LOCATION PRIOR TO START OF CONSTRUCTION FOR ACCESS TO CONTRACTOR LAYDOWN YARDS. LOCATIONS IN YARDS ARE ASSIGNED BY THE VA. CONTRACTOR STAGING AND ACCESS SHALL BE FINALIZED AT THE PRE-CONSTRUCTION MEETING.
- LOCATION OF CONCRETE CLEANOUT TO BE COORDINATED WITH COR.
- ALL WORK SHALL BE PERFORMED BY CRAFTSMEN WHO ARE JOURNEYMEN OF THE TRADE IN WHICH THEY ARE PERFORMING WORK.
- CONTRACTOR SUPERINTENDENT SHALL REPORT TO THE PROJECT COR EACH MORNING BEFORE WORK BEGINS, AT WHICH TIME THE DAILY SCHEDULE SHALL BE DISCUSSED.
- CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A NEAT AND ORDERLY FASHION AT ALL TIMES. WALKWAYS SHALL BE KEPT CLEAR OF ALL DEBRIS AND OBSTRUCTIONS TO ALLOW SAFE PASSAGE FOR EMPLOYEES, PATIENTS, VISITORS AND WORKERS. DISPOSE OF ALL TRASH AND DISCARDED MATERIALS, AND MAINTAIN STORAGE ONLY WITHIN THE CONFINES OF THE JOB SITE OR OTHER APPROVED AREAS.
- ANY WASTE MATERIALS ENCOUNTERED OR PRODUCED DURING CONSTRUCTION SHALL BE LEGALLY CARRIED AWAY BY THE CONTRACTOR OR TO A RUBBISH BIN, DUMPSTER, OR OTHER APPROVED LOCATION. TRASH SHALL NEVER BE BURIED ON SITE OR LEFT IN TRENCHES. SITE SHALL BE CLEANED AND FREE OF TRASH AT END OF EACH WORKING DAY.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO SAFELY PERFORM ROAD CLOSURES, DETOURS, OR OTHER DISRUPTIONS TO VEHICULAR TRAFFIC.
- WALKWAYS AND ROADS SHALL ONLY BE CLOSED TO PUBLIC USE FOR THE MINIMUM AMOUNT OF TIME TO CONSTRUCT THE DUCTBANK, AND CROSSINGS ARE TO BE MADE PASSABLE BY USING GRAVEL UNTIL REPAVED.
- ALL SITE FEATURES (HARDSCAPES, CURB AND GUTTER, ASPHALT AND CONCRETE PAVEMENT, RAMPS, STAIRS, UTILITIES, LAWNS, LANDSCAPING, IRRIGATION LINES, ETC.) DEMOLISHED DURING CONSTRUCTION SHALL BE RESTORED AND REPLACED TO MATCH EXISTING CONDITIONS.
- ALL DAMAGES INCURRED TO ADJACENT AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE VA.
- UNLESS SCHEDULED TO BE REINSTALLED OR TURNED OVER TO THE VA, ALL MATERIALS REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR, TO BE DISPOSED OF OFF-SITE.
- CONTRACTOR SUPERINTENDENT SHALL CARRY A PHONE AT ALL TIMES. FURNISH NUMBERS TO THE PROJECT COR UPON CONTRACT AWARD.
- CONTRACTOR SHALL SCHEDULE ALL UTILITY INTERRUPTIONS WITH THE PROJECT COR AT LEAST FOURTEEN (14) DAYS IN ADVANCE. UTILITY INTERRUPTIONS MAY REQUIRE OVERTIME WORK FOR ALL TRADES INVOLVED, AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE VA.
- ANY TRENCH, INLET, OR OTHER POTENTIAL FALL HAZARD SHALL BE SURROUNDED WITH RED "DANGER" TAPE.
- TRENCHES OPEN FOR MORE THAN 24 HOURS, LEFT UNSTAFFED, OR IN A ROADWAY/SIDEWALK SHALL HAVE CONSTRUCTION FENCE AROUND IT.
- ANY MANUFACTURER'S TRADE NAMES USED TO HEREIN IDENTIFY A MINIMUM STANDARD & NOT A PRODUCT ENDORSEMENT. SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER AND THE COR, OTHER PRODUCTS SHALL BE CONSIDERED, PROVIDED THEY ARE EQUIVALENT TO THESE STANDARDS AND MEET THE REQUIREMENTS OF THE VA TECHNICAL SPECIFICATIONS AND DRAWINGS.
- ALL UTILITY LOCATIONS SHALL BE CONFIRMED AND MARKED BY THE CONTRACTOR USING PRIVATE UTILITY LOCATE SERVICE AND GROUND PENETRATING RADAR. CALL BEFORE YOU DIG. USE 811 AND UTILITIES LOCATE IN CONJUNCTION WITH PLANS TO DETERMINE SUBSURFACE UTILITIES LOCATION. USE CAUTION. WHEN DIGGING, THE SAFETY OF CONSTRUCTION WORKERS, THE HOSPITAL STAFF, AND PATIENTS OF THE HOSPITAL ARE PARAMOUNT. WHEN IN DOUBT, STOP, CALL, AND VERIFY.
- WHEN DELIVERIES OF MATERIALS AND EQUIPMENT REQUIRE USE OF INTERNAL VA ROADS, CONTACT THE COR TO COORDINATE DELIVERY TIMES, AND EQUIPMENT ACCESS ROUTES ON THE CAMPUS TO MINIMIZE DISRUPTION TO THE NORMAL OPERATIONS OF THE HOSPITAL.
- EXISTING IRRIGATION LINES ON CAMPUS ARE NOT MAPPED, AND HAVE NOT BEEN MARKED. CONTRACTOR IS RESPONSIBLE FOR THE ENSURING ALL IRRIGATION SYSTEMS DISTURBED/DEMOLISHED DURING CONSTRUCTION ARE REINSTALLED TO MATCH EXISTING, WITH MATCHING OR EQUIVALENT EQUIPMENT (METERS, VALVES, BOXES, PIPE, HEADS, ETC.) AS SPECIFIED BY THE COR.
- ALL IRRIGATION LINES CUT FOR CONSTRUCTION SHALL BE CAPPED UNTIL CONSTRUCTION IS COMPLETE, AND THEN RECONNECT THE IRRIGATION SYSTEM.
- CONTRACTOR SHALL TEST IRRIGATION SYSTEM TO ENSURE THE ENTIRE SYSTEM IS FUNCTIONAL, AND SEEK FINAL APPROVAL FROM THE COR.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR OF ANY UNEXPECTED CONDITIONS OR UNMARKED UTILITIES ON SITE THAT IMPACT CONTRACT WORK.

SITE FLOOD MAP INFORMATION:

- SITE IS THE CAMPUS OF THE TUSCALOOSA VA MEDICAL CENTER: 3701 LOOP ROAD EAST, TUSCALOOSA, AL 35404
- PROJECT LOCATION ON FEMA FIRM MAP: 01125C0528G
- DATE MAP WAS APPROVED FOR USE: 01/16/2014
- DATE MAP WAS ACCESSED: 02/09/2022
- PROJECT SITE IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREAS.

FIRE SAFETY NOTES:

- ALL FIRE HYDRANTS SHALL BE INSPECTED AND TESTED AT THE COMPLETION OF CONSTRUCTION AT NO ADDITIONAL COST TO THE VA TO ENSURE THAT NO INADVERTENT DAMAGE HAS OCCURRED TO THE HYDRANT, OR ITS SUPPLY PIPING DURING CONSTRUCTION.
- PROVIDE FIRESTOPPING MATERIAL IN NEWLY CREATED OPENINGS IN WALLS, FLOORS, AND ROOF DECKS AGAINST PENETRATION OF FLAME, HEAT, SMOKE, AND GASES, IN FIRE RESISTANT RATED CONSTRUCTION.
- SEALANTS AND APPLICATIONS MUST BE FM, UL, OR WH RATED OR TESTED BY APPROVED LABORATORY IN ACCORDANCE WITH ASTM E814.

EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS (EROSION AND SEDIMENT CONTROL, NPDES, LAND DISTURBANCE, ETC.) REQUIRED FOR CONSTRUCTION OF THE DATA CENTER.
- ALL EROSION, INLET PROTECTION, AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION DAILY, AND AFTER ANY STORM EVENT GREATER THAN ONE-QUARTER OF A INCH (DURING A 24-HOUR PERIOD). CONTRACTOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
- CONTRACTOR SHALL INSPECT ALL OUTFLOWS WHERE STORMWATER RUNOFF LEAVES THE CONSTRUCTION SITE OR ENTERS AN EXISTING STORMWATER SYSTEMS, BMP, OR WETLAND. CORRECTIVE ACTION MUST BE TAKEN IF SEDIMENT IS DEPOSITED OFF SITE, OR INTO THE STORMWATER SYSTEM, BMP, OR WETLAND.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FT DEEP AT THE FENCE. THE SILT FENCE SHALL BE REPAIRED AS NECESSARY TO MAINTAIN THE BARRIER.
- TEMPORARY SODDING/SEEDING MEASURES TAKEN TO STABILIZE THE SITE SHALL BE APPROPRIATELY MAINTAINED, INCLUDING CUTTING AND FERTILIZING.
- ALL SODDED/SEEDED AREAS SHALL BE FERTILIZED, RESODDED/RESEEDED, AND MULCHED AS SPECIFIED TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.
- ALL STORMWATER INLETS AND INLET PROTECTION ARE TO BE KEPT CLEAR OF DEBRIS, AND SEDIMENT.
- ROADS ARE TO BE KEPT CLEAR OF DEBRIS AND SEDIMENT.
- CONSTRUCTION ENTRANCES ARE TO BE MAINTAINED TO ENSURE CONTINUED FUNCTIONALITY THROUGHOUT THE PROJECT.
- RECORDS SHALL BE KEPT OF ALL EROSION INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN BY THE CONTRACTOR.
- FINAL STABILIZATION OF THE SITE SHALL CONSIST OF SODDING (CENTIPEDE) AND ALL REQUIRED SITE PREPARATION (TOPSOIL, FERTILIZER, WATERING, ETC.) FOR THE SUCCESSFUL ESTABLISHMENT OF THE SOD.
- ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SITE IS FULLY STABILIZED, AND APPROVED BY THE COR.

DATA CENTER CONSTRUCTION NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS (EROSION AND SEDIMENT CONTROL, NPDES, LAND DISTURBANCE, ETC.) REQUIRED FOR CONSTRUCTION OF THE DATA CENTER.
- CONTRACTOR TO VERIFY CONSTRUCTABILITY OF NEW SANITARY SEWER GRAVITY LINE. VERIFY DEPTHS OF EXISTING UTILITIES TO CONFIRM CONSTRUCTIBILITY.
- VERIFY LOCATION OF SEPTIC SYSTEM AT GREENHOUSE.
- A FREESTANDING DATA CENTER BUILDING (BLDG. 151), MECHANICAL YARD, AND SITE UTILITIES SHALL BE CONSTRUCTED AS PART OF THIS PROJECT.
- THE EXISTING GREENHOUSE (BLDG. 101) SHALL BE DEMOLISHED. ALL EXISTING UTILITY CONNECTIONS SHALL BE TERMINATED AND REMOVED.
- COORDINATE CONSTRUCTION OF THE NEW DATA CENTER WITH THE COR TO ENSURE MINIMUM DISRUPTIONS TO THE DAILY OPERATIONS OF THE VA HOSPITAL.
- MEMORIAL GARDEN ADJACENT TO THE PROPOSED SITE FOR THE DATA CENTER BUILDING SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION. ANY DAMAGE TO THE MEMORIAL GARDEN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE VA.
- NEW UNDERGROUND CONNECTIONS FOR FIBER DATA LINES SHALL TIE FROM THE SERVICE PROVIDER SPLICE POINT TO THE NEW DATA CENTER. NEW SERVICE LINE SHALL BE TRENCHED UNDERGROUND ON ALL VA PROPERTY. TWO SERVICE PROVIDER LINES TO BE INSTALLED TO THE NEW DATA CENTER.

DUCTBANK CONSTRUCTION NOTES:

- THE MEDICAL CENTER SHALL REMAIN OPERATIONAL THROUGHOUT THE COURSE OF THE PROJECT. THE MEDICAL CENTER INCLUDES A HOSPITAL, ASSISTED LIVING FACILITIES, EMERGENCY ROOM/AMBULANCE ACCESS, AND NUMEROUS OTHER CLINICAL AND OUTPATIENT FACILITIES THAT ARE HIGHLY SENSITIVE TO ANY UTILITIES OUTAGES. THE CAMPUS DEPENDS ON A HIGHLY RELIABLE ELECTRICAL SYSTEM. MAINTAINING EXISTING UTILITIES FOR ALL OPERATIONS OF THE CAMPUS IS CRITICAL. ALL NECESSARY OUTAGES SHALL BE PLANNED IN ADVANCE WITH THE COR TO MINIMIZE THE IMPACT TO OPERATIONS.
- THE HOSPICE OF WEST ALABAMA IS ONLY ACCESSIBLE THROUGH THE VA CAMPUS BY CAR. ACCESS TO THE HOSPICE FOR VISITORS, EMPLOYEES, AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES WITH 1-LANE TO REMAIN OPEN. ALL NECESSARY TRAFFIC CONTROL, DETOURS, AND SIGNAGE, IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL OUTAGES SHALL BE SCHEDULED ACCORDING TO THE TIMES AND DURATIONS SHALL BE APPROVED BY THE COR. OUTAGES WILL LIKELY BE SCHEDULED FOR OFF-SHIFT HOURS, WEEKENDS, AND HOLIDAYS. POWER SHALL BE RESTORED TO RESIDENTIAL, OFFICE, AND ADMINISTRATIVE BUILDINGS ONE HOUR PRIOR TO BEING NORMALLY OCCUPIED/OPERATIONAL. POWER SHALL BE RESTORED TO THE MAIN KITCHEN AND BUILDINGS WITH CLINICAL FUNCTIONS TWO HOURS PRIOR TO NORMAL OCCUPANCY/OPERATIONAL.
- BACKUP ELECTRICAL POWER SOURCES MAY BE REQUIRED TO LIMIT THE LENGTH OF OUTAGES. IN THIS SITUATION, THE COST OF BACKUP GENERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE APPROVED DETAILED PROJECT SCHEDULE SHALL BE FOLLOWED OR MODIFIED BY APPROVAL OF THE COR.
- WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT DRAWINGS AND THE PROJECT SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS FOR THE CONSTRUCTION OF THIS PROJECT, INCLUDING ALL ASSOCIATED FEES.
- THIS PROJECT INCLUDES SIGNIFICANT SUB-SURFACE EXCAVATION. WHEN CONDITIONS DIFFERING FROM THOSE DESCRIBED IN THE PROJECT DOCUMENTS ARE ENCOUNTERED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE COR OF SAID CONDITIONS AS QUICKLY AS POSSIBLE FOR RESOLUTION.
- SCHEDULE ALL SITE EXCAVATIONS AND ROAD CLOSURES WITH THE COR, MIN. 14 DAYS NOTICE.
- THE LOCATION AND ELEVATION OF EXISTING STRUCTURES, PIPING, UTILITIES, SHOWN ARE BASED ON THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES MARKED PRIOR TO ANY EXCAVATION. THE DIAMETERS OF THE EXISTING PIPING AND CONDUITS ARE APPROXIMATE, AND SHALL BE VERIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SUPPORT OF ALL UTILITIES ADJACENT OR CROSSING THE AREA OF EXCAVATION, AND REPLACEMENT OF UTILITIES DAMAGED DURING CONSTRUCTION.
- CHANGES TO PROPOSED DUCTBANK ROUTING FROM THAT SHOWN ON THE DRAWINGS, TO AVOID CONFLICTS WITH EXISTING SYSTEMS, EQUIPMENT, STRUCTURES, OR PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LIKEWISE, ALTERATIONS TO EXISTING COMMUNICATION EQUIPMENT/STRUCTURES, OR CONDUIT TO ACCOMMODATE NEW DUCTBANKS AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE VA. ALL CHANGES SHALL BE APPROVED BY THE COR.
- CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE SODDED AND PROVIDED WITH EROSION CONTROL DURING CONSTRUCTION TILL FULLY STABILIZED, AND APPROVED BY THE COR.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL, AND SITE CONFINED SPACE ENTRY REGULATIONS.
- UTILITIES ACROSS ROADS, PARKING LOTS, OR ENTRANCES SHALL BE OPEN CUT INSTALLATIONS. ALL SITE PAVEMENT, SIDEWALKS, TRAILS, ROADS, PARKING LOTS, HARDSCAPES, LANDSCAPING, LAWNS, ETC., SHALL BE REPLACED WITH NEW MATERIALS TO MATCH EXISTING.
- FINAL STABILIZATION OF THE SITE SHALL CONSIST OF SODDING (CENTIPEDE) AND ALL REQUIRED SITE PREPARATION (TOP SOIL, FERTILIZER, WATERING, ETC.) FOR THE SUCCESSFUL ESTABLISHMENT OF THE SOD.

LEGEND:

- DEMOLITION OF EXISTING SITE FEATURES
- REMOVE EXISTING TREES
- PVC CONDUIT DUCTBANK
- HANDHOLES 4' x 4'
- FIBER MANHOLES: 7' x 12'
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- LIMITS OF CONSTRUCTION
- NEW STRUCTURE PERIMETER
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- SPOT ELEVATION
- 36" NDS STORMWATER INLET
- WATER PIPE
- ELECTRICAL DUCTBANK
- STORM DOUBLEWALL HDPE
- RCP STORM PIPE
- STORM SEWER CLEANOUT
- SANITARY PIPE - SCH. 80
- SANITARY FORCE MAIN - SCH. 80
- FORCE MAIN PUMP
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- LAMP POST

EROSION CONTROL MEASURES

- INLET PROTECTION MEASURE
- SILT FENCE
- CONSTRUCTION FENCE
- TREE PROTECTION
- DRAINAGE ARROW

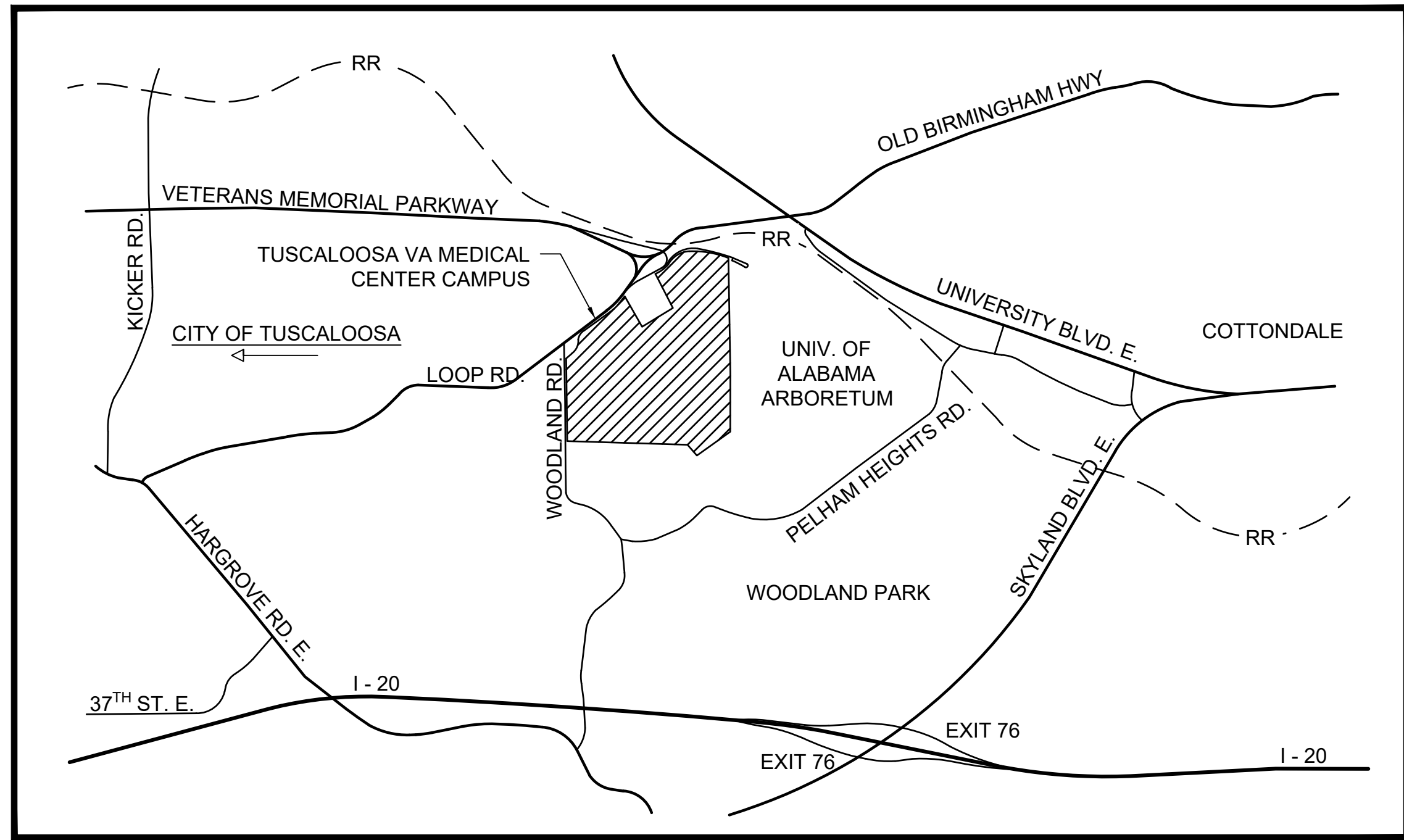
ABBREVIATIONS

- BOC - BACK OF CURB
- CO - CLEANOUT
- CLF - CHAIN LINK FENCE
- EF - EACH FACE
- EOP - EDGE OF PAVEMENT
- EW - EACH WAY
- FFE - FINISHED FLOOR ELEVATION
- FL - FLOWLINE
- FT - FEET
- FND - FOUNDATION
- MH - MANHOLE
- RCP - REINFORCED CONCRETE PIPE
- SF - SQUARE FEET
- CY - CUBIC YARDS
- (TBR) - TO BE REMOVED



1 TUSCALOOSA VA HEALTH CARE SYSTEM - CAMPUS MAP SCALE: 1:200





1 CAMPUS VICINITY MAP  
Scale: NTS

SITE NOTES:

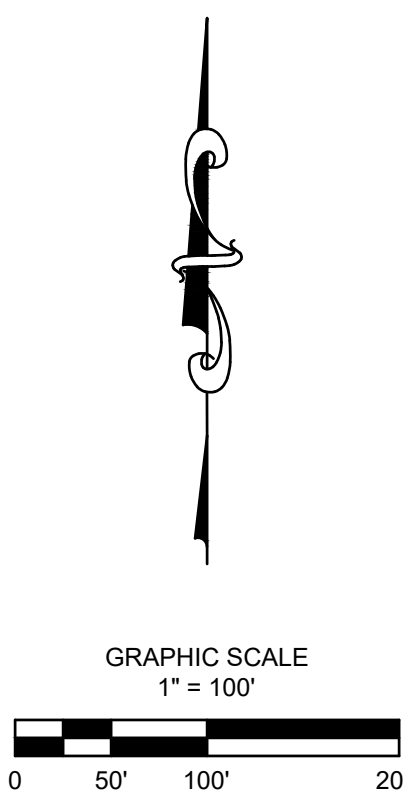
- CONTRACTOR TO USE PRIVATE UTILITY LOCATES AND GROUND PENETRATING RADAR TO CONFIRM LOCATION OF EXISTING UTILITIES.
- CONTRACTOR TO SAW CUT CLEAN STRAIGHT LINES AND DEMOLISH ENTIRE SLABS/SECTIONS BETWEEN JOINTS IN CONCRETE SIDEWALKS, CURB AND GUTTER, ADA RAMPS, ASPHALT, AND OTHER HARDSCAPES TO CONSTRUCT DUCTBANK AND INSTALL STRUCTURES.
- RESTORE SITE HARDSCAPES AND SITE FEATURES TO EXISTING CONDITION, INCLUDING BUT NOT LIMITED TO: ASPHALT ROADS, CONCRETE ROADS, PAVEMENT MARKINGS, SIDEWALK, CURB AND GUTTER, ASPHALT TRAILS, DRIVEWAYS, SIGNAGE, LAMP POSTS, BOLLARDS, GRASS, LANDSCAPING, AND ANY OTHER SITE FEATURE DISTURBED OR TEMPORARILY RELOCATED DURING CONSTRUCTION.
- ANY UTILITIES UNCOVERED DURING CONSTRUCTION SHALL BE PROTECTED IN PLACE AND RESTORED TO EXISTING CONDITION.
- ANY UTILITY INTERRUPTIONS OR DEMOLITIONS SHALL BE APPROVED BY THE COR.
- UTILITIES DEMOLISHED DURING CONSTRUCTION OF THE DUCTBANK SHALL BE FULLY REPLACED AND TESTED BY THE CONTRACTOR TO ENSURE RESTORED OPERATIONS.
- LOCATE TAPE FOR EXISTING UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS.
- FOR PERMANENT STABILIZATION, CONTRACTOR SHALL USE SOD, TYPICAL OF GRASS ON SITE, FOR ALL DISTURBED LAWNS. PLANT BEDS AND SHRUBS SHALL BE REPLACED TO MATCH EXISTING.
- CLEANLY CUT ALL TREE ROOTS WHEN ENCOUNTERED DURING EXCAVATION.
- CONTRACTOR RESPONSIBLE FOR LOCATING VETERANS AFFAIR'S PRIVATE UTILITIES. 811 WILL LOCATE ONLY PUBLIC UTILITIES.
- PROVIDE INLET PROTECTION AT ALL CURB INLETS AND DROP INLETS IMPACTED BY CONSTRUCTION RUNOFF.

DUCTBANK CONSTRUCTION SEQUENCE:

- CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED FOR CONSTRUCTION.
- HOLD PRE-CONSTRUCTION CONFERENCE AS DIRECTED BY COR.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES. MAINTAIN 10' MIN. DISTANCE BETWEEN SILT FENCE AND TOE OF FILL SLOPES FOR SEDIMENT STORAGE AND EASE OF MAINTENANCE. INSTALL STONE OUTLETS AT LOW POINTS OF SILT FENCE.
- CUT AND REMOVE TREES AND SHRUBS. GRIND AND REMOVE STUMPS. REMOVE DEBRIS FROM SITE.
- LOCATE AND MARK ALL EXISTING UTILITIES.
- PROTECT PERMANENT HARDSCAPES AND UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION. CONTACT THE COR IF ANY UTILITIES MUST BE MOVED/DEMOLISHED FOR DUCTBANK CONSTRUCTION. ALL DAMAGED OR DEMOLISHED HARDSCAPES AND UTILITIES SHALL BE REPLACED BY THE CONTRACTOR.
- CERTIFICATE OF COMPLIANCE THROUGH ON-SITE INSPECTION BY EROSION CONTROL OFFICER.
- EXCAVATE DUCTBANK ROUTE. CLEANLY CUT ALL TREE ROOTS TO BE REMOVED. CAP UTILITIES/IRRIGATION LINES, AND REMOVE UTILITIES AS REQUIRED.
- ADJUST EROSION CONTROL MEASURES AS THE CONSTRUCTION SITE/AREA CHANGES. REMOVE DEBRIS FROM SITE.
- ALL EXCAVATIONS SHALL BE SCHEDULED WITH THE COR.
- EXCAVATIONS ACROSS ROADWAYS/SIDEWALKS SHALL BE SCHEDULED SO AS TO NOT OBSTRUCT THE NORMAL OPERATIONS OF THE CAMPUS OR FLOW OF TRAFFIC.
- AS DUCTBANKS IN LAWN/LANDSCAPE AREAS ARE COMPLETED, AND TRENCHES BACKFILLED, LEAVE THE SOIL SURFACE SLIGHTLY ROUGHENED, MULCH/SOD AS REQUIRED TO MATCH EX. CONDITIONS.
- IN HARDSCAPES AREAS, BACKFILL SOILS SHALL BE COMPACTED, AND HARDSCAPES (ROAD, CURB AND GUTTER, ETC.) SHALL BE CONSTRUCTED AND PROTECTED FORM DAMAGE UNTIL PROJECT COMPLETED AND TURNED OVER TO THE VA.
- INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES WEEKLY AND AFTER ALL RAINFALL EVENTS. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY. KEEP SITE ROADWAYS CLEAN OF MUD AND DEBRIS.
- MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL SOD/PERMANENT GROUND COVER IS ESTABLISHED AND APPROVED BY C.O.R.
- LEVEL, CUT/REMOVE STOCK PILED SOILS, CLEAN ROADWAYS AND REMOVE DEBRIS.
- REQUEST APPROVAL FROM EROSION CONTROL OFFICER.
- CONDUCT FINAL PUNCHLIST AND CORRECT ANY DEFICIENCIES.
- REMOVE ALL EROSION CONTROL MEASURES.
- OBTAIN FINAL APPROVAL FROM COR.

DUCTBANK ALIGNMENT INDEX:

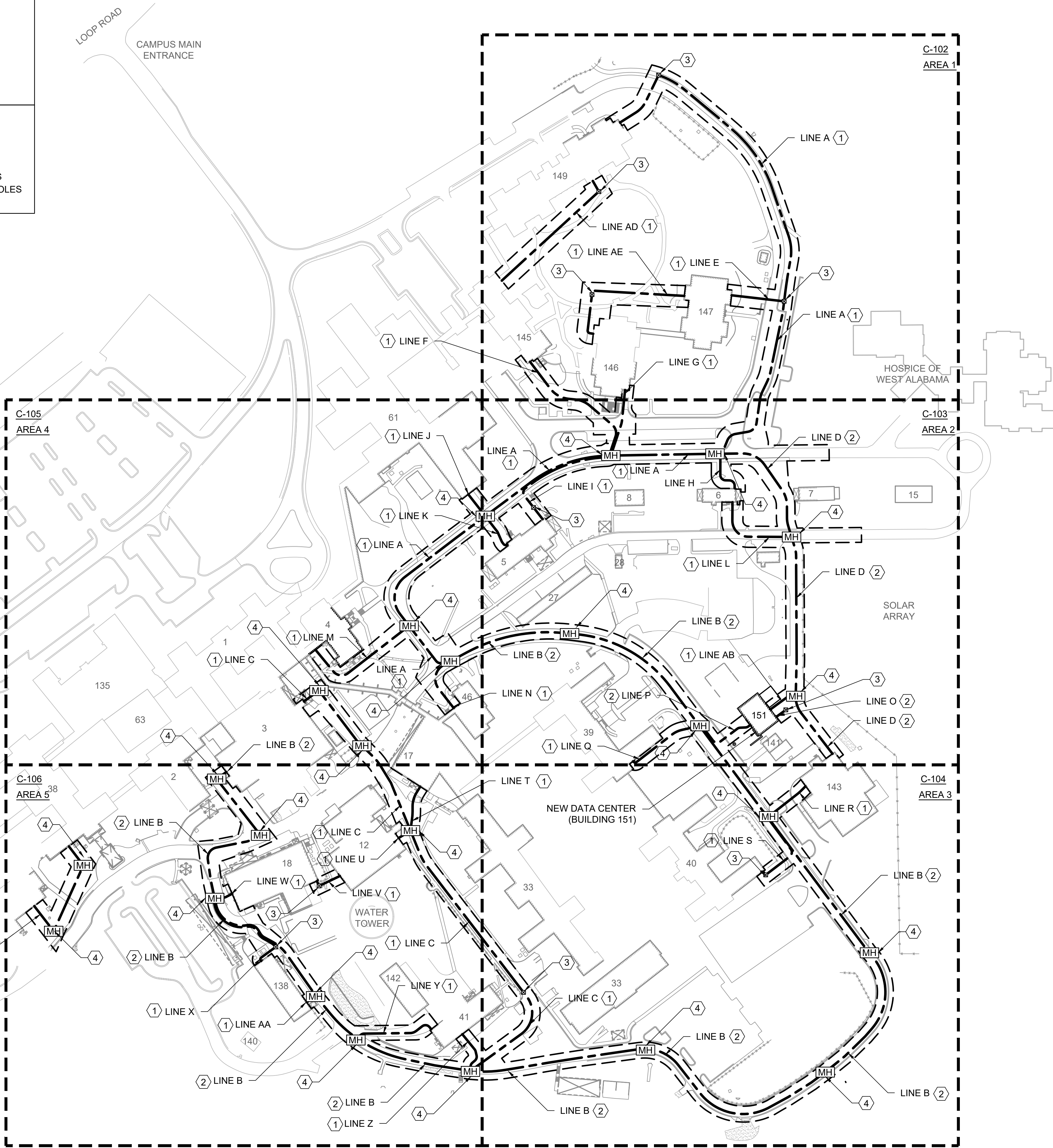
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LINE B	-	3,081 LF	(6) 4" CONDUIT
LINE C	-	939 LF	(4) 4" CONDUIT
LINE D	-	685 LF	(6) 4" CONDUIT
LINE E	-	100 LF	(4) 4" CONDUIT
LINE F	-	265 LF	(4) 4" CONDUIT
LINE G	-	127 LF	(4) 4" CONDUIT
LINE H	-	90 LF	(4) 4" CONDUIT
LINE I	-	249 LF	(4) 4" CONDUIT
LINE J	-	52 LF	(4) 4" CONDUIT
LINE K	-	72 LF	(4) 4" CONDUIT
LINE L	-	165 LF	(4) 4" CONDUIT
LINE M	-	230 LF	(4) 4" CONDUIT
LINE N	-	113 LF	(4) 4" CONDUIT
LINE O	-	23 LF	(6) 4" CONDUIT
LINE P	-	120 LF	(6) 4" CONDUIT
LINE Q	-	148 LF	(4) 4" CONDUIT
LINE R	-	90 LF	(4) 4" CONDUIT
LINE S	-	156 LF	(4) 4" CONDUIT
LINE T	-	87 LF	(4) 4" CONDUIT
LINE U	-	26 LF	(4) 4" CONDUIT
LINE V	-	54 LF	(4) 4" CONDUIT
LINE W	-	35 LF	(4) 4" CONDUIT
LINE X	-	206 LF	(4) 4" CONDUIT
LINE Y	-	135 LF	(4) 4" CONDUIT
LINE Z	-	84 LF	(4) 4" CONDUIT
LINE AA	-	20 LF	(4) 4" CONDUIT
LINE AB	-	56 LF	(4) 4" CONDUIT
LINE AC	-	242 LF	(4) 4" CONDUIT
LINE AD	-	272 LF	(4) 4" CONDUIT
LINE AE	-	257 LF	(4) 4" CONDUIT






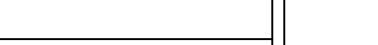

STOP - CAUTION!!!  
BEFORE YOU DIG CALL 811 AT LEAST  
48 HOURS PRIOR TO CONSTRUCTION

LEGEND

PROPOSED	
	PVC CONDUIT DUCTBANK
	NEW HANDHOLES: 4' x 4'
	NEW FIBER MANHOLES: 7' x 12'
SITE KEY NOTES	
1.	(4) 4" PVC CONDUITS 5,874 LF
2.	(6) 4" PVC CONDUITS 3,916 LF
3.	NEW 4'x4' HANDHOLES 10 BOXES
4.	NEW 12'x7'x6" MAINTENANCE HOLE 24 MANHOLES



2 CAMPUS DUCTBANK CIVIL SITE PLAN  
Scale: 1:100

File Path	-	CONSULTANT	<div><div>WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</div><div><div>SPECIALIZED ENGINEERING SOLUTIONS</div><div>Specialized Engineering Solutions 1300 Baxter Street, Suite 230 Charlotte, NC 28204</div></div></div>	ARCHITECT/ENGINEER OF RECORD	<div><div>Atriax, pllc 703 Main Avenue, SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com</div><div>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</div></div>	<div><div>03/08/2024</div></div>	Office of Construction and Facilities Management	<div><div>U.S. Department of Veterans Affairs</div></div>	Drawing Title	Project Title	Phase	Project Number	Project Title	Project Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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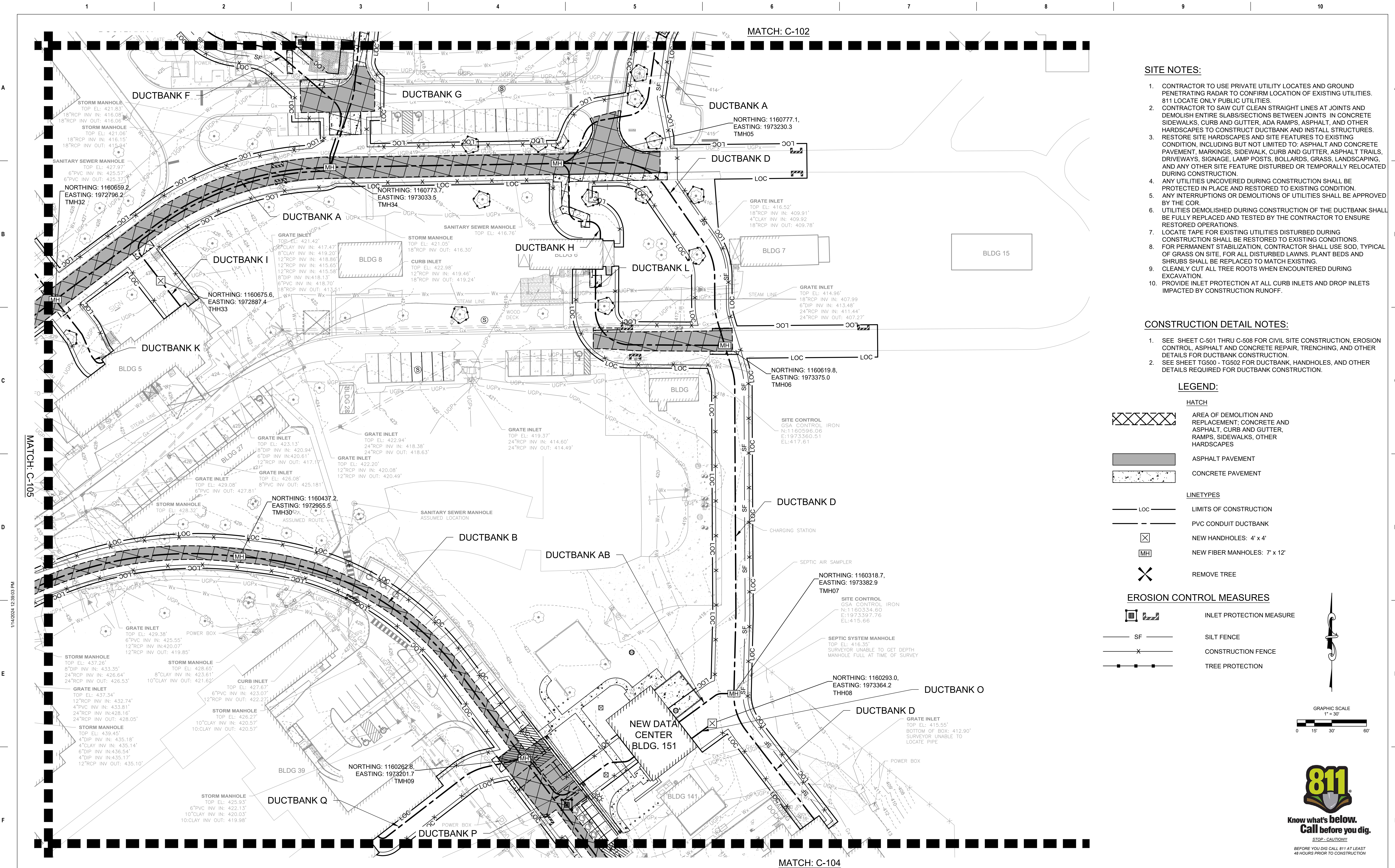




1 CIVIL SITE PLAN - AREA 1  
Scale: 1/30

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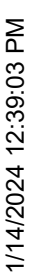


1 CIVIL SITE PLAN - AREA 2

Scale: 1/30

- -
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## Scale: 1:30

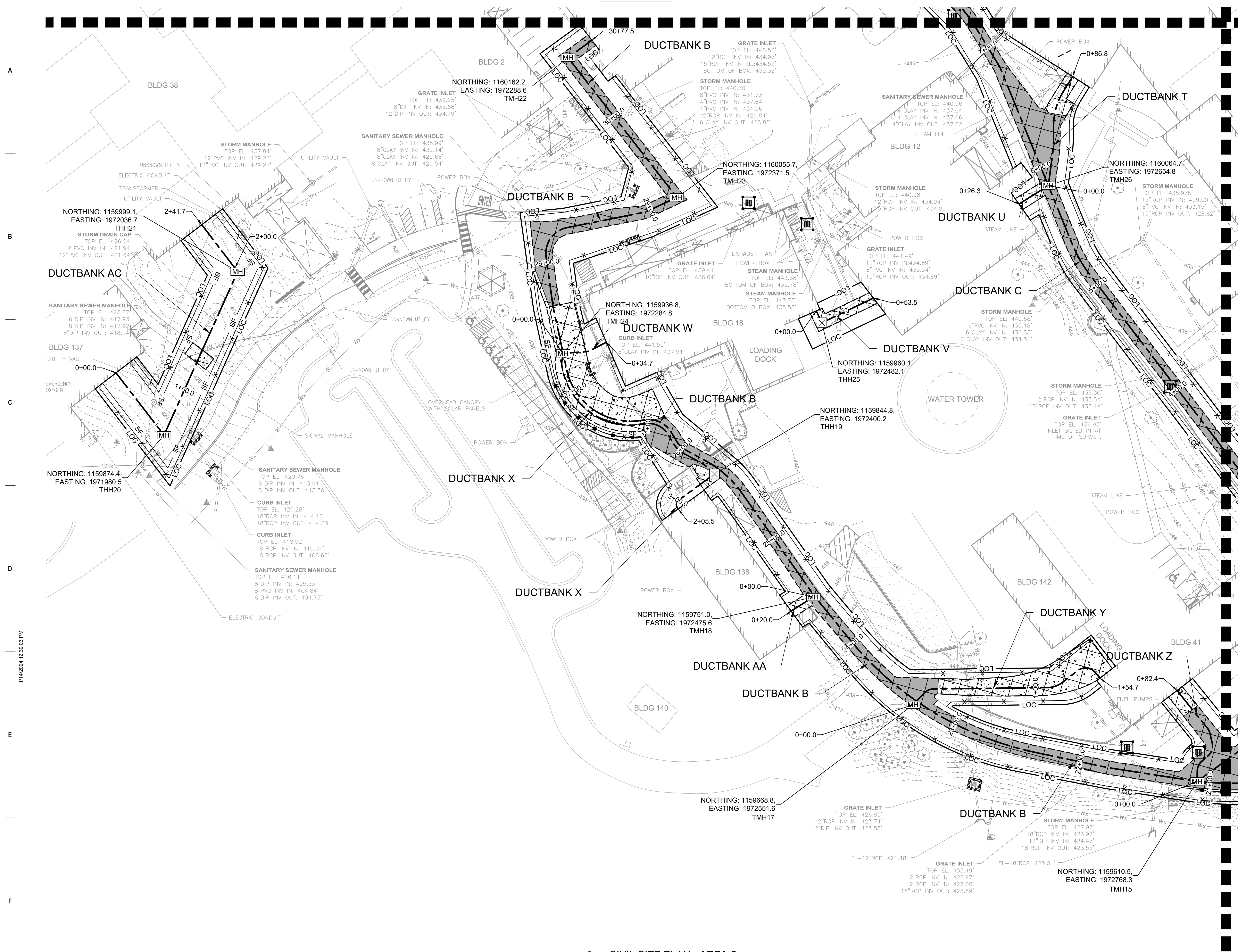
File Path







MATCH: C-105



## SITE NOTES:

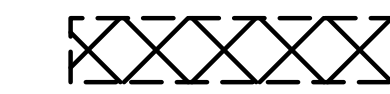
1. CONTRACTOR TO USE PRIVATE UTILITY LOCATES AND GROUND PENETRATING RADAR TO CONFIRM LOCATION OF EXISTING UTILITIES. 811 LOCATE ONLY PUBLIC UTILITIES.
2. CONTRACTOR TO SAW CUT CLEAN STRAIGHT LINES AT JOINTS AND DEMOLISH ENTIRE SLABS/SECTIONS BETWEEN JOINTS IN CONCRETE SIDEWALKS, CURB AND GUTTER, ADA RAMPS, ASPHALT, AND OTHER HARDSCAPES TO CONSTRUCT DUCTBANK AND INSTALL STRUCTURES.
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9. CLEANLY CUT ALL TREE ROOTS WHEN ENCOUNTERED DURING EXCAVATION.
10. PROVIDE INLET PROTECTION AT ALL CURB INLETS AND DROP INLETS IMPACTED BY CONSTRUCTION RUNOFF.

## CONSTRUCTION DETAIL NOTES:

1. SEE SHEET C-501 THRU C-508 FOR CIVIL SITE CONSTRUCTION, EROSION CONTROL, ASPHALT AND CONCRETE REPAIR, TRENCHING, AND OTHER DETAILS FOR DUCTBANK CONSTRUCTION.
2. SEE SHEET TG500 - TG502 FOR DUCTBANK, HANDHOLES, AND OTHER DETAILS REQUIRED FOR DUCTBANK CONSTRUCTION.

## LEGEND:

## HATCH



AREA OF DEMOLITION AND REPLACEMENT; CONCRETE AND ASPHALT, CURB AND GUTTER, RAMPS, SIDEWALKS, OTHER HARDSCAPES

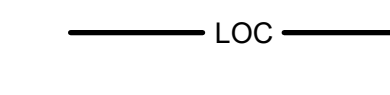


ASPHALT PAVEMENT

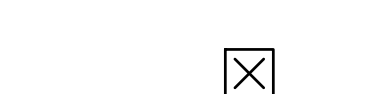


CONCRETE PAVEMENT

## LINETYPES



LIMITS OF CONSTRUCTION



PVC CONDUIT DUCTBANK



NEW HANDHOLES: 4' x 4'

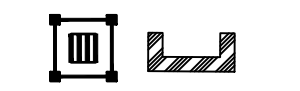


NEW FIBER MANHOLES: 7' x 12'

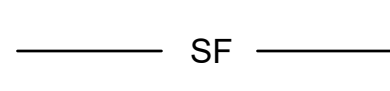


REMOVE TREE

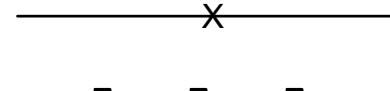
## EROSION CONTROL MEASURES



INLET PROTECTION MEASURE



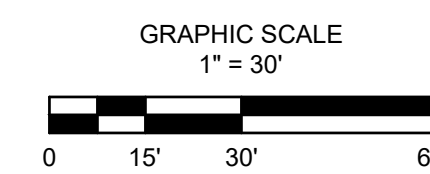
SILT FENCE



CONSTRUCTION FENCE



TREE PROTECTION



Know what's below.  
Call before you dig.

STOP - CAUTION!!!

BEFORE YOU DIG CALL 811 AT LEAST  
48 HOURS PRIOR TO CONSTRUCTION

## 1 CIVIL SITE PLAN - AREA 5

Scale: 1/30

Revisions:	Date:

## CONSULTANT



WileyWilson  
127 Nationwide Drive  
Lynchburg, VA 24502  
Phone: 434.947.1901  
www.wileywilson.com



Specialized Engineering Solutions  
1300 Baxter Street, Suite 230  
Charlotte, NC 28204

## ARCHITECT/ENGINEER OF RECORD



www.atriaxgroup.com

Atriax, PLLC  
703 Main Avenue, SW  
PO Box 1629, Hickory, NC 28603  
Phone: 828.315.9962  
Fax: 828.315.9964

NC Engineering License No.: P-0214  
NC Architectural License No.: 51254

## STAMP



03/08/2024

Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans Affairs

Drawing Title  
CIVIL SITE PLAN - AREA 5

Approved: Project Director

## Phase

100% CONSTRUCTION  
DOCUMENTS

## Project Title

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

## Location

TUSCALOOSA VAMC, TUSCALOOSA, AL

## Issue Date

3/08/2024

## Checked

HJM

## Drawn

JTK

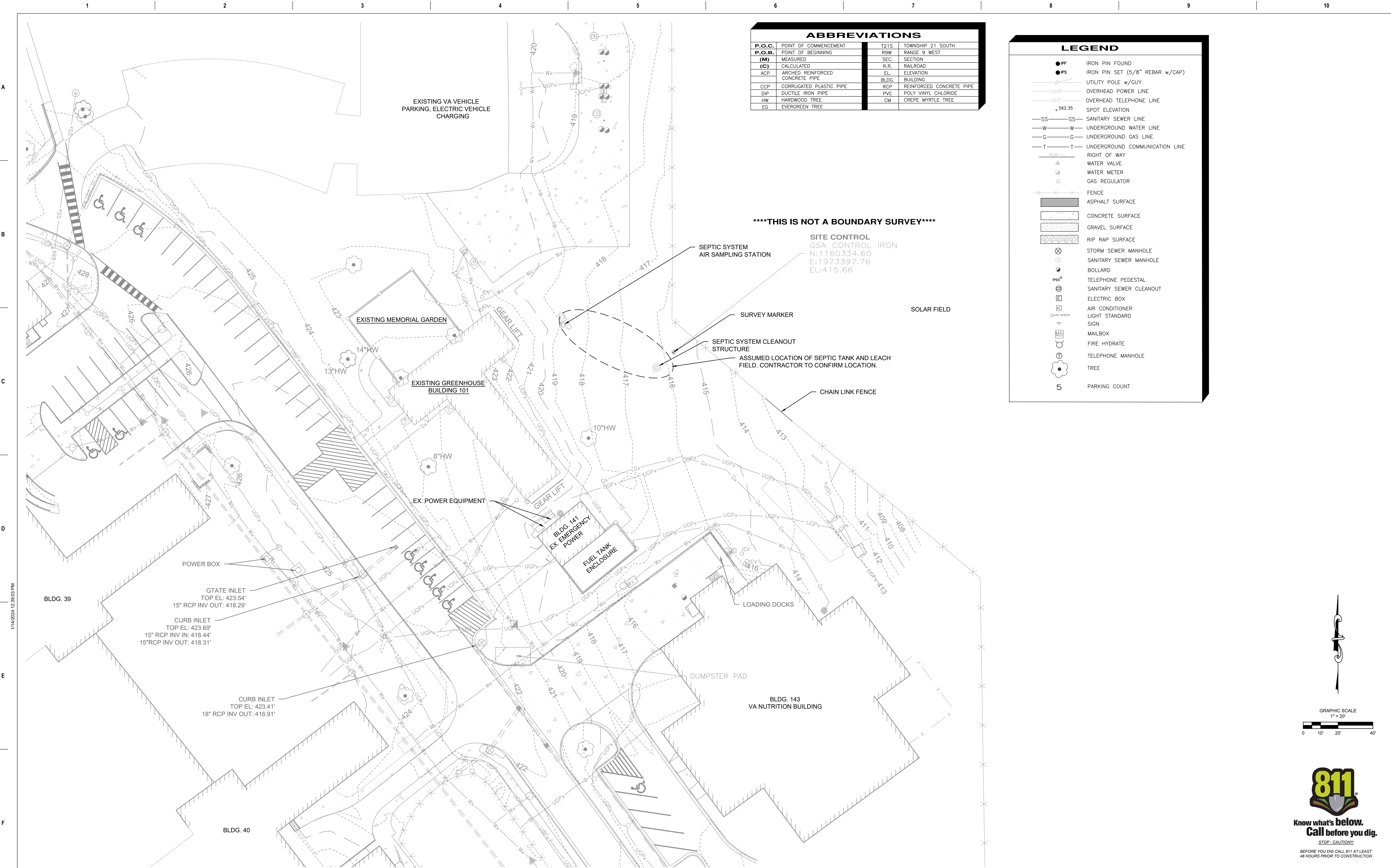
## Project Number

679-20-104  
Building Number

## Drawing Number

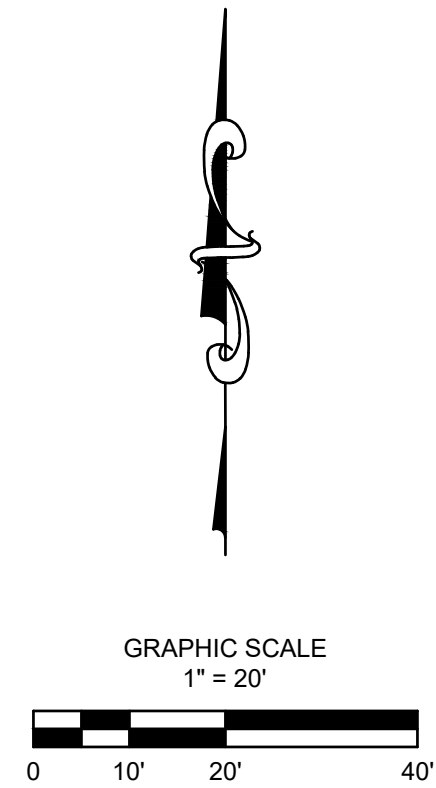
C-106





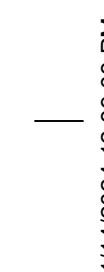
ABBREVIATIONS			
P.O.C.	POINT OF COMMENCEMENT	T21S	TOWNSHIP 21 SOUTH
P.O.B.	POINT OF BEGINNING	R9W	RANGE 9 WEST
(M)	MEASURED	SEC.	SECTION
(C)	CALCULATED	R.R.	RAILROAD
ACP	ARCHED REINFORCED CONCRETE PIPE	EL.	ELEVATION
CCP	CORRUGATED PLASTIC PIPE	BLDG.	BUILDING
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
HW	HARDWOOD TREE	PVC	POLY VINYL CHLORIDE
EG	EVERGREEN TREE	CM	CREPE MYRTLE TREE

LEGEND	
● IFF	IRON PIN FOUND
● IPS	IRON PIN SET (5/8" REBAR w/CAP)
○	UTILITY POLE w/GUY
— OHP —	OVERHEAD POWER LINE
— OHT —	OVERHEAD TELEPHONE LINE
x 562.35	SPOT ELEVATION
— SS —	SANITARY SEWER LINE
— W —	UNDERGROUND WATER LINE
— G —	UNDERGROUND GAS LINE
— T —	UNDERGROUND COMMUNICATION LINE
— ROW —	RIGHT OF WAY
▲	WATER VALVE
■	WATER METER
○	GAS REGULATOR
x x x x	FENCE
■	ASPHALT SURFACE
■	CONCRETE SURFACE
■	GRAVEL SURFACE
■	RIP RAP SURFACE
⊗	STORM SEWER MANHOLE
⊙	SANITARY SEWER MANHOLE
●	BOLLARD
⊕	TELEPHONE PEDESTAL
⊕	SANITARY SEWER CLEANOUT
⊕	ELECTRIC BOX
⊕	AIR CONDITIONER
⊕	LIGHT STANDARD
⊕	SIGN
⊕	MAILBOX
⊕	FIRE HYDRATE
⊕	TELEPHONE MANHOLE
⊕	TREE
5	PARKING COUNT



Revisions:	Date:	CONSULTANT Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	ARCHITECT/ENGINEER OF RECORD Atriax www.atriaxgroup.com Atriax, PLLC 703 Main Avenue, SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 03/08/2024	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title EXISTING CONDITIONS - DATA CENTER Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number BLDG. 151
								Location TUSCALOOSA VAMC, TUSCALOOSA, AL	Drawing Number VS101
								Issue Date 3/08/2024	Checked HJM
								Drawn JTK	





## DEMOLITION OF EXISTING SITE FEATURES

REMOVE EXISTING TREES



### INLET PROTECTION MEASURE

SILT FENCE

CONSTRUCTION FENCE

## TREE PROTECTION


1. DEMOLISH GREENHOUSE BUILDING 101.
2. DEMOLISH CONCRETE CURB AND GUTTER
3. DEMOLISH CONCRETE SIDEWALK, UTILITY PAD,  
EQUIPMENT, ETC.
4. DEMOLISH ASPHALT ROAD/PARKING LOT TO  
CONSTRUCT ELECTRICAL DUCTBANK.
5. REMOVE TREE, GRIND UP STUMP, AND GRUB  
ROOTS UNDER CANOPY.
6. REMOVE AND STORE SIGNS, POSTS, LIGHT POSTS  
AND FIXTURES FOR REINSTALLATION.
7. DEMOLISH AND CAP WATER LINE.
8. DEMOLISH AND CAP ELECTRICAL LINE.
9. DEMOLISH AND CAP NATURAL GAS LINE.
10. DEMOLISH EXISTING SEPTIC SYSTEM AND LEACH  
FIELD, EXISTING SANITARY LINE.
11. DEMOLISH ASPHALT ROAD/PARKING LOT TO  
INSTALL STORMWATER PIPE.

- SITE NOTES:

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9. CLEANLY CUT ALL TREE ROOTS WHEN ENCOUNTERED DURING EXCAVATION.
10. PROVIDE INLET PROTECTION AT ALL CURB INLETS AND DROP INLETS IMPACTED BY CONSTRUCTION RUNOFF.
11. STOP TOP SOILS SHALL BE REMOVED AND STOCKPILED AT THE PLAYDOWN YARD, OR AS REQUESTED BY THE COR.
12. ROAD AT CONSTRUCTION SITE IS TO REMAIN OPEN TO VA TRAFFIC. COORDINATE ANY ROAD CLOSURE WITH THE COR. PROVIDE 14 DAYS NOTICE FOR ANY ROAD CLOSURE.



GRAPHIC SCALE  
1" = 20'



0 10' 20' 40'




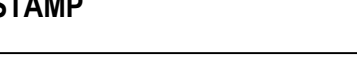



Know what's below.  
Call before you dig.

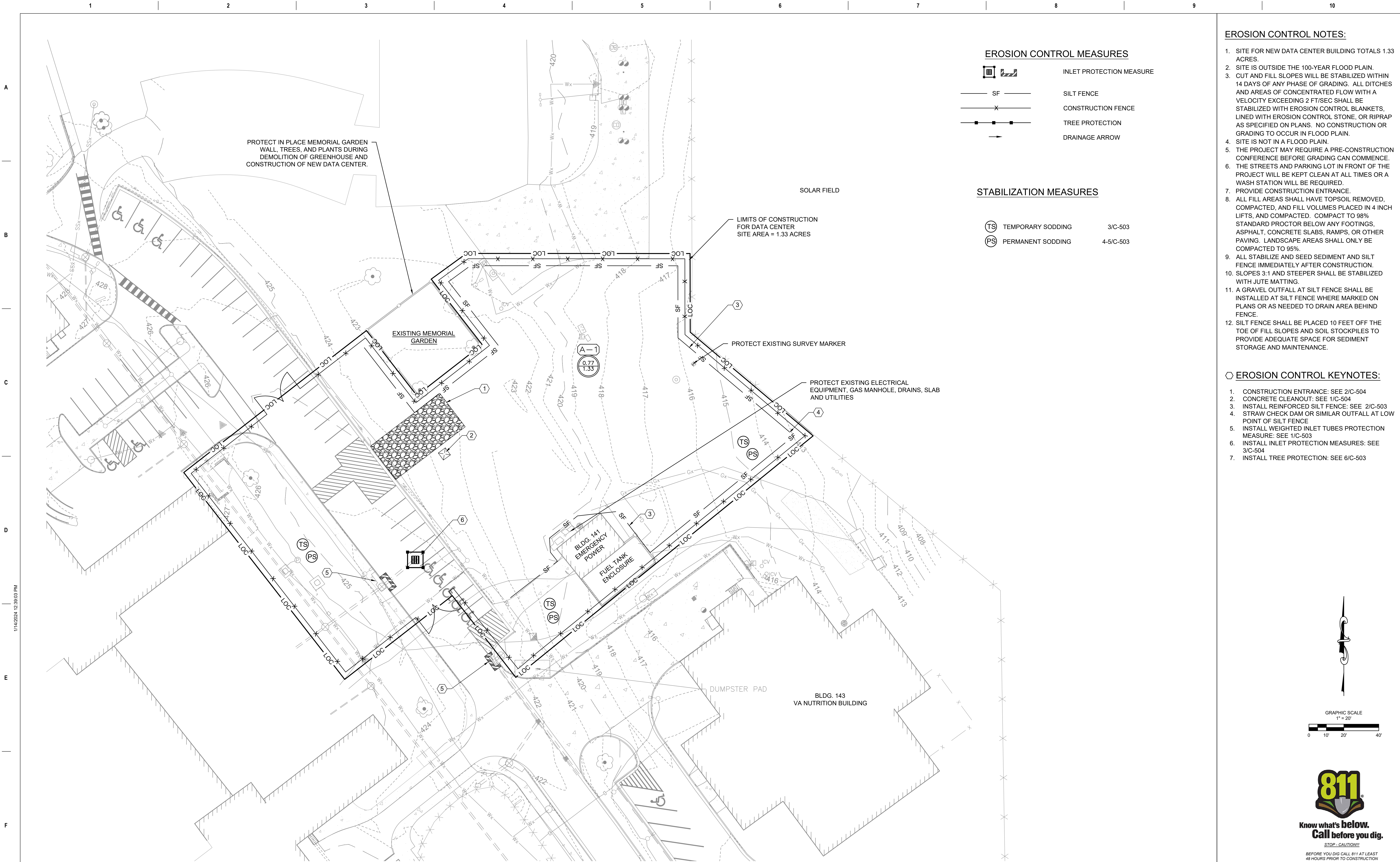
**STOP - CAUTION!!!**

BEFORE YOU DIG CALL 811 AT LEAST  
48 HOURS PRIOR TO CONSTRUCTION

1 DEMOLITION PLAN - DATA CENTER

-	-	<div>CONSULTANT</div> <div><div>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</div></div> <div><div>SPECIALIZED ENGINEERING SOLUTIONS</div><div>Specialized Engineering Solutions 1300 Baxter Street, Suite 230 Charlotte, NC 28204</div></div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>Atriax, pllc 703 Main Avenue, SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964</div></div> <div><div>NC Engineering License No.: P-0214 NC Architectural License No.: 51254</div></div> <div>03/08/2024</div>	<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>	Drawing Title DEMOLITION PLAN - DATA CENTER - -	Phase 100% CONSTRUCTION DOCUMENTS	Project Title PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104		
-	-				Approved: Project Director		Location TUSCALOOSA VAMC, TUSCALOOSA, AL	Building Number BLDG. 151		
-	-						Issue Date 3/08/2024	Checked HJM	Drawn JTK	Drawing Number CD101
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-	-									
Revisions:	Date:									



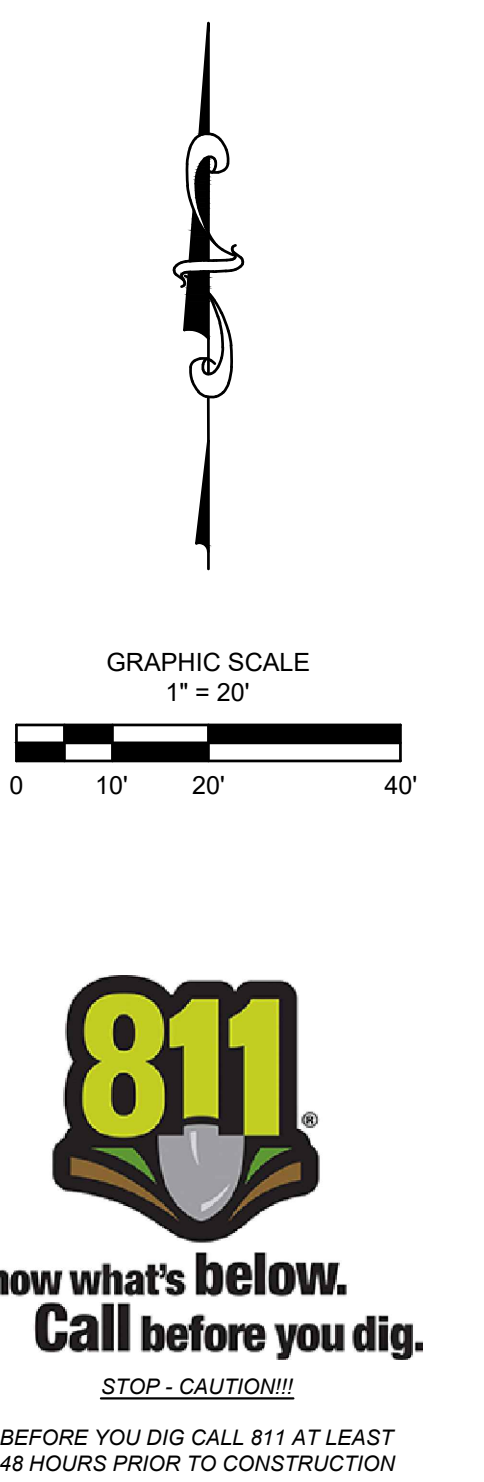


- EROSION CONTROL MEASURES**
- INLET PROTECTION MEASURE
  - SILT FENCE
  - CONSTRUCTION FENCE
  - TREE PROTECTION
  - DRAINAGE ARROW

- STABILIZATION MEASURES**
- TEMPORARY SODDING 3/C-503
  - PERMANENT SODDING 4-5/C-503

- EROSION CONTROL NOTES:**
- SITE FOR NEW DATA CENTER BUILDING TOTALS 1.33 ACRES.
  - SITE IS OUTSIDE THE 100-YEAR FLOOD PLAIN.
  - CUT AND FILL SLOPES WILL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING. ALL DITCHES AND AREAS OF CONCENTRATED FLOW WITH A VELOCITY EXCEEDING 2 FT/SEC SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS, LINED WITH EROSION CONTROL STONE, OR RIPRAP AS SPECIFIED ON PLANS. NO CONSTRUCTION OR GRADING TO OCCUR IN FLOOD PLAIN.
  - SITE IS NOT IN A FLOOD PLAIN.
  - THE PROJECT MAY REQUIRE A PRE-CONSTRUCTION CONFERENCE BEFORE GRADING CAN COMMENCE.
  - THE STREETS AND PARKING LOT IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
  - PROVIDE CONSTRUCTION ENTRANCE.
  - ALL FILL AREAS SHALL HAVE TOPSOIL REMOVED, COMPACTED, AND FILL VOLUMES PLACED IN 4 INCH LIFTS, AND COMPACTED. COMPACT TO 98% STANDARD PROCTOR BELOW ANY FOOTINGS, ASPHALT, CONCRETE SLABS, RAMPS, OR OTHER PAVING. LANDSCAPE AREAS SHALL ONLY BE COMPACTED TO 95%.
  - ALL STABILIZE AND SEED SEDIMENT AND SILT FENCE IMMEDIATELY AFTER CONSTRUCTION.
  - SLOPES 3:1 AND STEEPER SHALL BE STABILIZED WITH JUTE MATTING.
  - A GRAVEL OUTFALL AT SILT FENCE SHALL BE INSTALLED AT SILT FENCE WHERE MARKED ON PLANS OR AS NEEDED TO DRAIN AREA BEHIND FENCE.
  - SILT FENCE SHALL BE PLACED 10 FEET OFF THE TOE OF FILL SLOPES AND SOIL STOCKPILES TO PROVIDE ADEQUATE SPACE FOR SEDIMENT STORAGE AND MAINTENANCE.

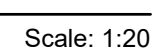
- EROSION CONTROL KEYNOTES:**
- CONSTRUCTION ENTRANCE: SEE 2/C-504
  - CONCRETE CLEANOUT: SEE 1/C-504
  - INSTALL REINFORCED SILT FENCE: SEE 2/C-503
  - STRAW CHECK DAM OR SIMILAR OUTFALL AT LOW POINT OF SILT FENCE
  - INSTALL WEIGHTED INLET TUBES PROTECTION MEASURE: SEE 1/C-503
  - INSTALL INLET PROTECTION MEASURES: SEE 3/C-504
  - INSTALL TREE PROTECTION: SEE 6/C-503



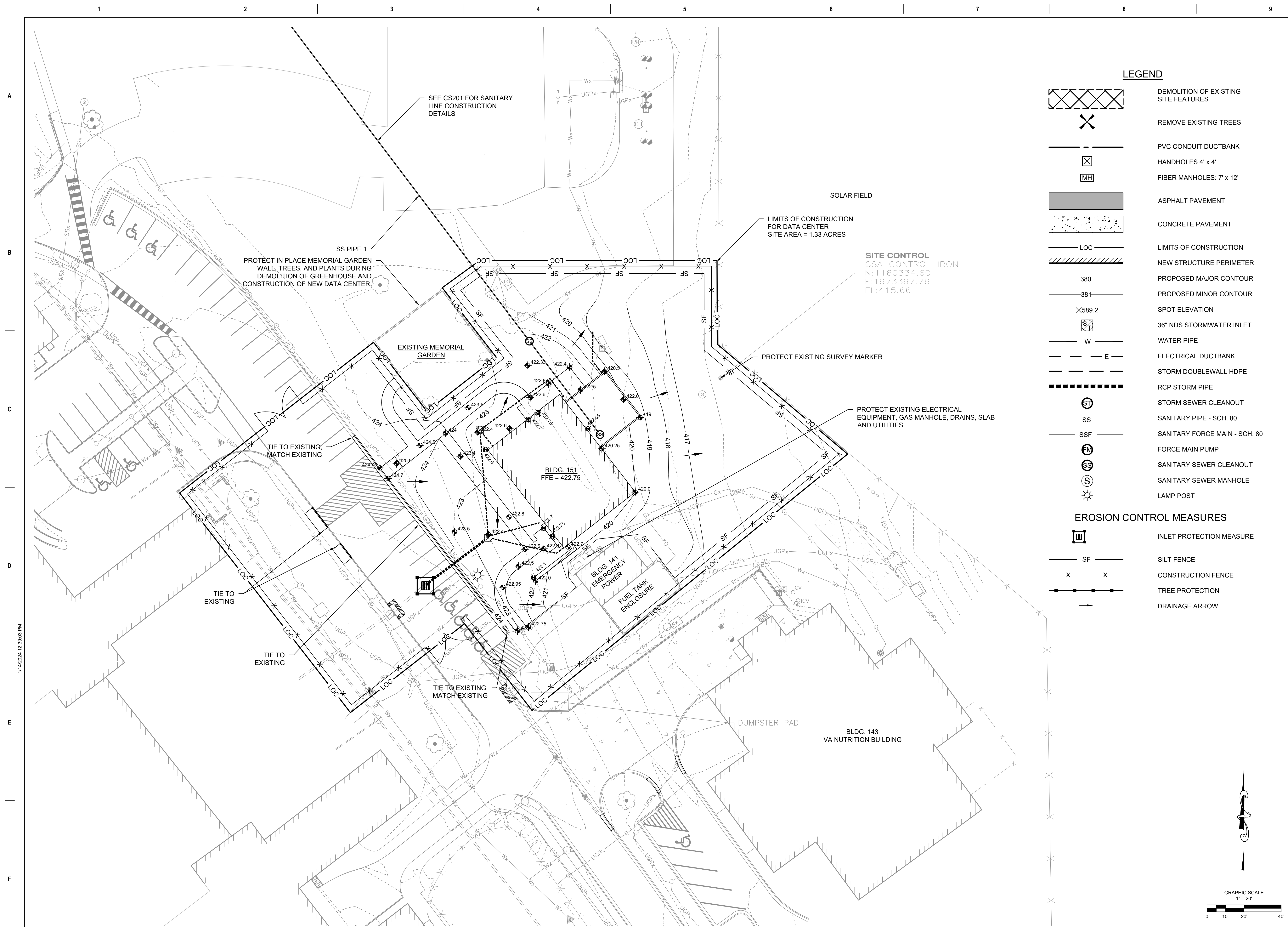
1 EROSION AND SEDIMENT CONTROL PLAN- DATA CENTER  
Scale: 1/20

<div>Revisions:</div> <div>Date:</div>		<div>CONSULTANT</div> <div>Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</div> <div>SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 230 Charlotte, NC 28204</div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div>Atriox www.atriaxgroup.com</div> <div>Atriox, PLLC 703 Main Avenue, SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</div> <div>STAMP Professional Engineer J. J. WATKINS 03/08/2024</div>		<div>Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs</div>		<div>Drawing Title EROSION AND SEDIMENT CONTROL PLAN - DATA CENTER</div> <div>Approved: Project Director</div>		<div>Phase 100% CONSTRUCTION DOCUMENTS</div>		<div>Project Title PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES</div> <div>Location TUSCALOOSA VAMC, TUSCALOOSA, AL</div> <div>Issue Date 3/08/2024</div> <div>Checked HJM</div> <div>Drawn JTK</div>		<div>Project Number 679-20-104</div> <div>Building Number BLDG. 151</div> <div>Drawing Number CS101</div>	
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CS102





## LEGEND

	DEMOLITION OF EXISTING SITE FEATURES
	REMOVE EXISTING TREES
	PVC CONDUIT DUCTBANK
	HANDHOLES 4' x 4'
	FIBER MANHOLES: 7' x 12'
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	LIMITS OF CONSTRUCTION
	NEW STRUCTURE PERIMETER
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SPOT ELEVATION
	36" NDS STORMWATER INLET
	WATER PIPE
	ELECTRICAL DUCTBANK
	STORM DOUBLEWALL HDPE
	RCP STORM PIPE
	STORM SEWER CLEANOUT
	SANITARY PIPE - SCH. 80
	SANITARY FORCE MAIN - SCH. 80
	FORCE MAIN PUMP
	SANITARY SEWER CLEANOUT
	SANITARY SEWER MANHOLE
	LAMP POST

## EROSION CONTROL MEASURES

	INLET PROTECTION MEASURE
	SILT FENCE
	CONSTRUCTION FENCE
	TREE PROTECTION
	DRAINAGE ARROW

## SITE NOTES:

- CONTRACTOR TO USE PRIVATE UTILITY LOCATES AND GROUND PENETRATING RADAR TO CONFIRM LOCATION OF EXISTING UTILITIES. 811 LOCATE ONLY PUBLIC UTILITIES.
- CONTRACTOR TO SAW CUT CLEAN STRAIGHT LINES AT JOINTS AND DEMOLISH ENTIRE SLABS/SECTIONS BETWEEN JOINTS IN CONCRETE SIDEWALKS, CURB AND GUTTER, ADA RAMPS, ASPHALT, AND OTHER HARDSCAPES TO CONSTRUCT DUCTBANK AND INSTALL STRUCTURES.
- RESTORE SITE HARDSCAPES AND SITE FEATURES TO EXISTING CONDITION, INCLUDING BUT NOT LIMITED TO: ASPHALT AND CONCRETE PAVEMENT, MARKINGS, SIDEWALK, CURB AND GUTTER, ASPHALT TRAILS, DRIVEWAYS, SIGNAGE, LAMP POSTS, BOLLARDS, GRASS, LANDSCAPING, AND ANY OTHER SITE FEATURE DISTURBED OR TEMPORARILY RELOCATED DURING CONSTRUCTION.
- ANY UTILITIES UNCOVERED DURING CONSTRUCTION SHALL BE PROTECTED IN PLACE AND RESTORED TO EXISTING CONDITION.
- ANY INTERRUPTIONS OR DEMOLITIONS OF UTILITIES SHALL BE APPROVED BY THE COR.
- UTILITIES DEMOLISHED DURING CONSTRUCTION OF THE DUCTBANK SHALL BE FULLY REPLACED AND TESTED BY THE CONTRACTOR TO ENSURE RESTORED OPERATIONS.
- LOCATE TAPE FOR EXISTING UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS.
- FOR PERMANENT STABILIZATION, CONTRACTOR SHALL USE SOD, TYPICAL OF GRASS ON SITE. FOR ALL DISTURBED LAWNS, PLANT BEDS AND SHRUBS SHALL BE REPLACED TO MATCH EXISTING.
- CLEANLY CUT ALL TREE ROOTS WHEN ENCOUNTERED DURING EXCAVATION.
- PROVIDE INLET PROTECTION AT ALL CURB INLETS AND DROP INLETS IMPACTED BY CONSTRUCTION RUNOFF.
- SITE TOP SOILS SHALL BE REMOVED AND STOCKPILED AT THE LAYDOWN YARD, OR AS REQUESTED BY THE COR.
- ROAD AT CONSTRUCTION SITE IS TO REMAIN OPEN TO VA TRAFFIC. COORDINATE ANY ROAD CLOSURE WITH THE COR. PROVIDE 14 DAYS NOTICE FOR ANY ROAD CLOSURE.

## GRADING NOTES:

- COORDINATE SITE PLAN WORK WITH DUCTBANK CONSTRUCTION SHOWN HEREIN, INCLUDING BUT NOT LIMITED TO GRADING, UTILITIES, AND CONSTRUCTION PHASING.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH VA TO MAINTAIN CONTINUOUS ACCESS AND UTILITY SERVICE TO ADJACENT VA BUILDINGS. COORDINATE UTILITY CLOSURES OR INTERRUPTIONS WITH VA.
- WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION SHOWN.
- CONTRACTOR SHALL PERFORM OWN ESTIMATES AND PROVIDE ALL EARTHWORK NECESSARY TO ACHIEVE THE DESIGN GRADE, INCLUDING OFFSITE BORROW OR SPOILS REQUIRED.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL GRADED AREAS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN AT SIDEWALKS, RAMPS, AND STORMWATER STRUCTURES ARE FINISHED ELEVATIONS.
- FINISH SLOPES SHALL BE GRADED NO STEEPER THAN 20% (1:5).
- EXISTING CURB AND GUTTER, AND OTHER SITE FEATURES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. WHERE NEW TIES TO EXISTING, SAW CUT, PROTECT, AND KEEP EXISTING CLEAN. EXISTING AND NEW SHALL TIE TOGETHER.
- NEW STORMWATER PIPE TO BE PLACED AT MINIMUM 1% SLOPE.
- UNLESS OTHERWISE NOTED, DIMENSIONS ARE FROM BACK OF CURB, OR EDGE OF SIDEWALK.
- ALL NEW ROOF DRAIN LEADERS SHALL TIE TO STRUCTURES/CLEANOUTS AS SHOWN WITH 6" DOUBLEWALL HDPE, MIN. 12" COVER.
- CONTRACTOR SHALL PROVIDE SMOOTH CONNECTION AT PIPES AND INLET STRUCTURES; MORTAR/SEAL AROUND PIPES, AND PROVIDE CONCRETE INVERTS IN RCP STRUCTURES.



Know what's below.  
Call before you dig.

STOP - CAUTION!!!

BEFORE YOU DIG CALL 811 AT LEAST  
48 HOURS PRIOR TO CONSTRUCTION

## 1 GRADING PLAN - DATA CENTER

Scale: 1:20

Revisions:	Date:

## CONSULTANT

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127 Nationwide Drive  
Lynchburg, VA 24502  
Phone: 434.947.1901  
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Specialized Engineering Solutions  
1300 Baxter Street, Suite 230  
Charlotte, NC 28204

## ARCHITECT/ENGINEER OF RECORD



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703 Main Avenue, SW  
PO Box 1629, Hickory, NC 28603  
Phone: 828.315.9962  
Fax: 828.315.9964

NC Engineering License No.: P-0214  
NC Architectural License No.: 51254

## STAMP



Office of  
Construction  
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Management



U.S. Department  
of Veterans Affairs

Drawing Title  
GRADING PLAN - DATA CENTER

Approved: Project Director

Phase

100% CONSTRUCTION  
DOCUMENTS

Project Title

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

Location

TUSCALOOSA VAMC, TUSCALOOSA, AL

Issue Date

3/08/2024

Checked

HJM

Drawn

JTK

Project Number

679-20-104

Building Number

BLDG. 151

Drawing Number

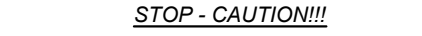
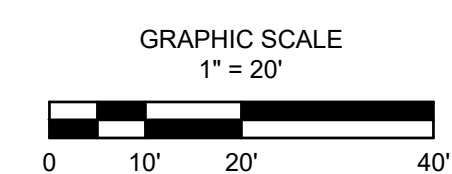
CS103



SITE NOTES:

1. CONTRACTOR TO USE PRIVATE UTILITY LOCATES AND GROUND PENETRATING RADAR TO CONFIRM LOCATION OF EXISTING UTILITIES. 811 LOCATE ONLY PUBLIC UTILITIES.
2. CONTRACTOR TO SAW CUT CLEAN STRAIGHT LINES AT JOINTS AND DEMOLISH ENTIRE SLABS/SECTIONS BETWEEN JOINTS IN CONCRETE SIDEWALKS, CURB AND GUTTER, ADA RAMPS, ASPHALT, AND OTHER HARDSCAPES TO CONSTRUCT DUCTBANK AND INSTALL STRUCTURES.
3. RESTORE SITE HARDSCAPES AND SITE FEATURES TO EXISTING CONDITION, INCLUDING BUILT LIMITS, ASPHALT AND CONCRETE PAVEMENT, MARKINGS, SIDEWALK, CURB AND GUTTER, ASPHALT TRAILS, DRIVEWAYS, SIGNAGE, LAMP POSTS, BOLLARDS, GRASS, LANDSCAPING, AND ANY OTHER SITE FEATURE DISTURBED OR TEMPORALLY RELOCATED DURING CONSTRUCTION.
4. ANY UTILITIES UNCOVERED DURING CONSTRUCTION SHALL BE PROTECTED IN PLACE AND RESTORED TO EXISTING CONDITION.
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6. UTILITIES DEMOLISHED DURING CONSTRUCTION OF THE DUCTBANK SHALL BE FULLY REPLACED AND INSTALLED BY THE CONTRACTOR TO ENSURE RESTORED OPERATIONS.
7. LOCATE TAPE FOR EXISTING UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS.
8. FOR PERMANENT STABILIZATION, CONTRACTOR SHALL USE SOD, TYPICAL OF GRASS ON SITE, FOR ALL DISTURBED LAWNS. PLANT BEDS AND SHRUBS SHALL BE REPLACED TO MATCH EXISTING.
9. CLEANLY CUT ALL TREE ROOTS WHEN ENCOUNTERED DURING EXCAVATION.
10. PROVIDE INLET PROTECTION AT ALL CURB INLETS AND DRAINAGE INLETS IMPACTED BY CONSTRUCTION RUNOFF.
11. SITE TOP SOILS SHALL BE REMOVED AND STOCKPILED AT THE LAYDOWN YARD, OR AS REQUESTED BY THE COR.
12. ROAD AT CONSTRUCTION SITE IS TO REMAIN OPEN TO VA TRAFFIC. COORDINATE ANY ROAD CLOSURE WITH THE COR. PROVIDE 14 DAYS NOTICE FOR ANY ROAD CLOSURE.

1. PREPARE SOILS IN PLANTING BEDS.
2. PLACE SHRUBS IN HOLES AS SPECIFIED BY NURSERY. ENSURE PROPER DRAINAGE AND FERTILIZER IN PLACE. PLACE AND MAINTAIN BASED ON SUPPLIER RECOMMENDATIONS.
3. PLACE METAL EDGING AROUND PLANTING BEDS. MATCH EXISTING ON CAMPUS AND APPROVED BY THE COR.
4. PLACE HIGH QUALITY HARDWOOD BARK MULCH IN PLANTING BEDS. ENSURE PROPER PLACEMENT, NOT COMPACTED, AND PLACE CLEANLY AROUND ALL SHRUBS. REMOVE AND REPLACE DEAD SHRUBS AT NO ADDITIONAL COST. MATCH EXISTING ON CAMPUS.
5. IN LAWN AREAS, PREPARE SOILS WITH AERATION AND FERTILIZER APPLICATION, PLACE CENTIPEDE SOD TO MATCH EXISTING ON CAMPUS. ENSURE CENTIPEDE SOD IS SUBSEQUENTLY WATERED AND MAINTAINED TO ENSURE SURVIVAL. REMOVE AND REPLACE DEAD SOD AT NO ADDITIONAL COST. REQUIRE APPROVAL OF THE COR BEFORE FINAL ACCEPTANCE OF WORK. SEE DETAILS 4-6/503 FOR MORE INFORMATION.

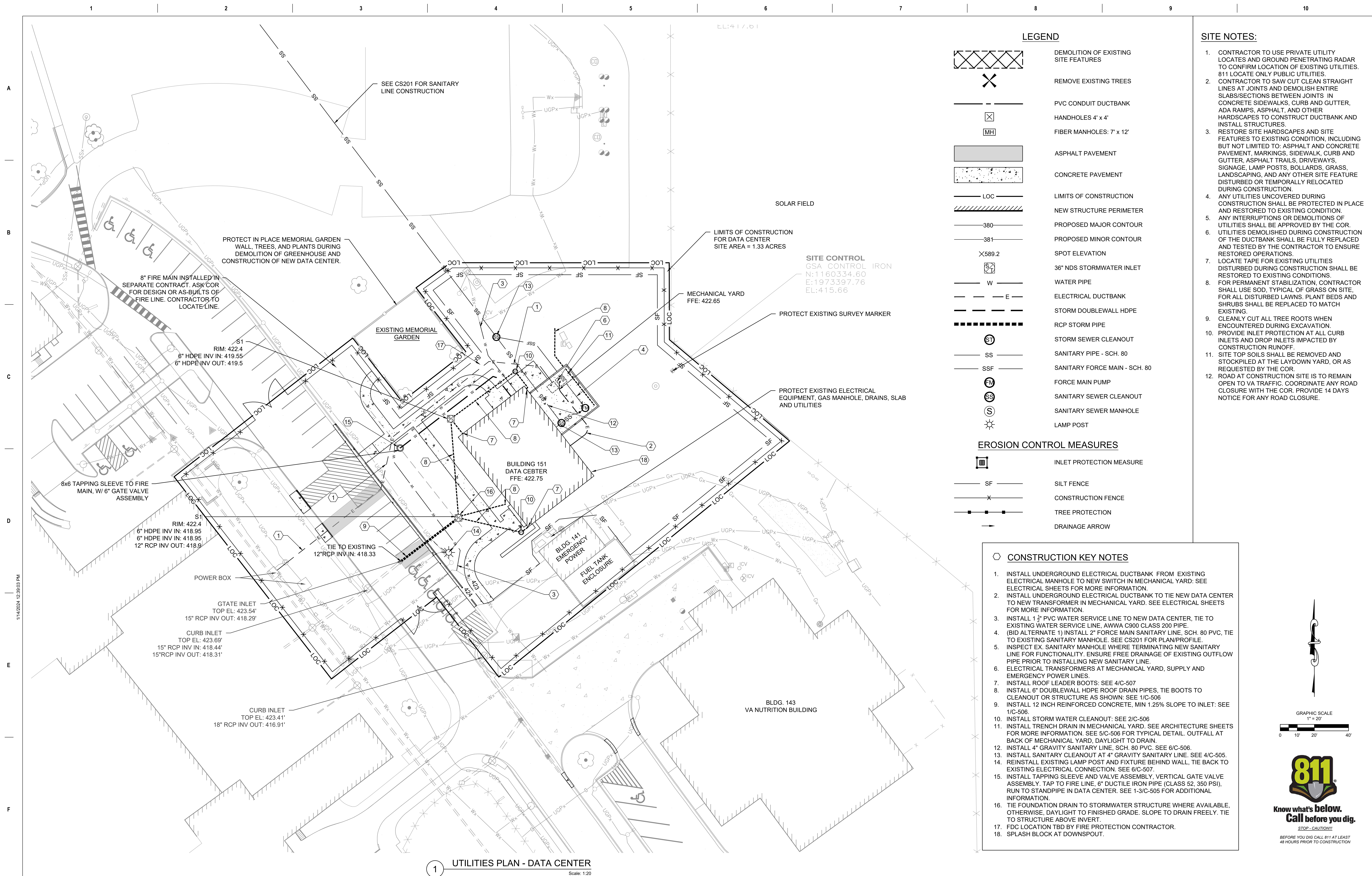


1 LANDSCAPING PLAN - DATA CENTER

File Path	-
	Revisions:

VA FORM 08 - 6231





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Revisions:	Date:

## CONSULTANT

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127 Nationwide Drive  
Lynchburg, VA 24502  
Phone: 434.947.1901  
www.wileywilson.com



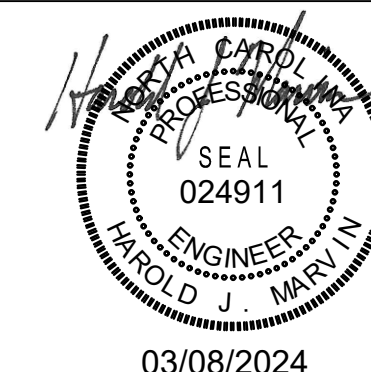
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## STAMP



Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans Affairs

## Drawing Title

UTILITIES PLAN - DATA CENTER

Approved: Project Director

## Phase

100% CONSTRUCTION  
DOCUMENTS

## Project Title

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

## Location

TUSCALOOSA VAMC, TUSCALOOSA, AL

## Issue Date

3/08/2024

## Checked

HJM

## Drawn

JTK

## Project Number

679-20-104

## Building Number

BLDG. 151

## Drawing Number

CS105

## SITE NOTES:

- CONTRACTOR TO USE PRIVATE UTILITY LOCATES AND GROUND PENETRATING RADAR TO CONFIRM LOCATION OF EXISTING UTILITIES. 811 LOCATE ONLY PUBLIC UTILITIES.
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GRAPHIC SCALE  
1" = 20'  
0 10' 20' 40'

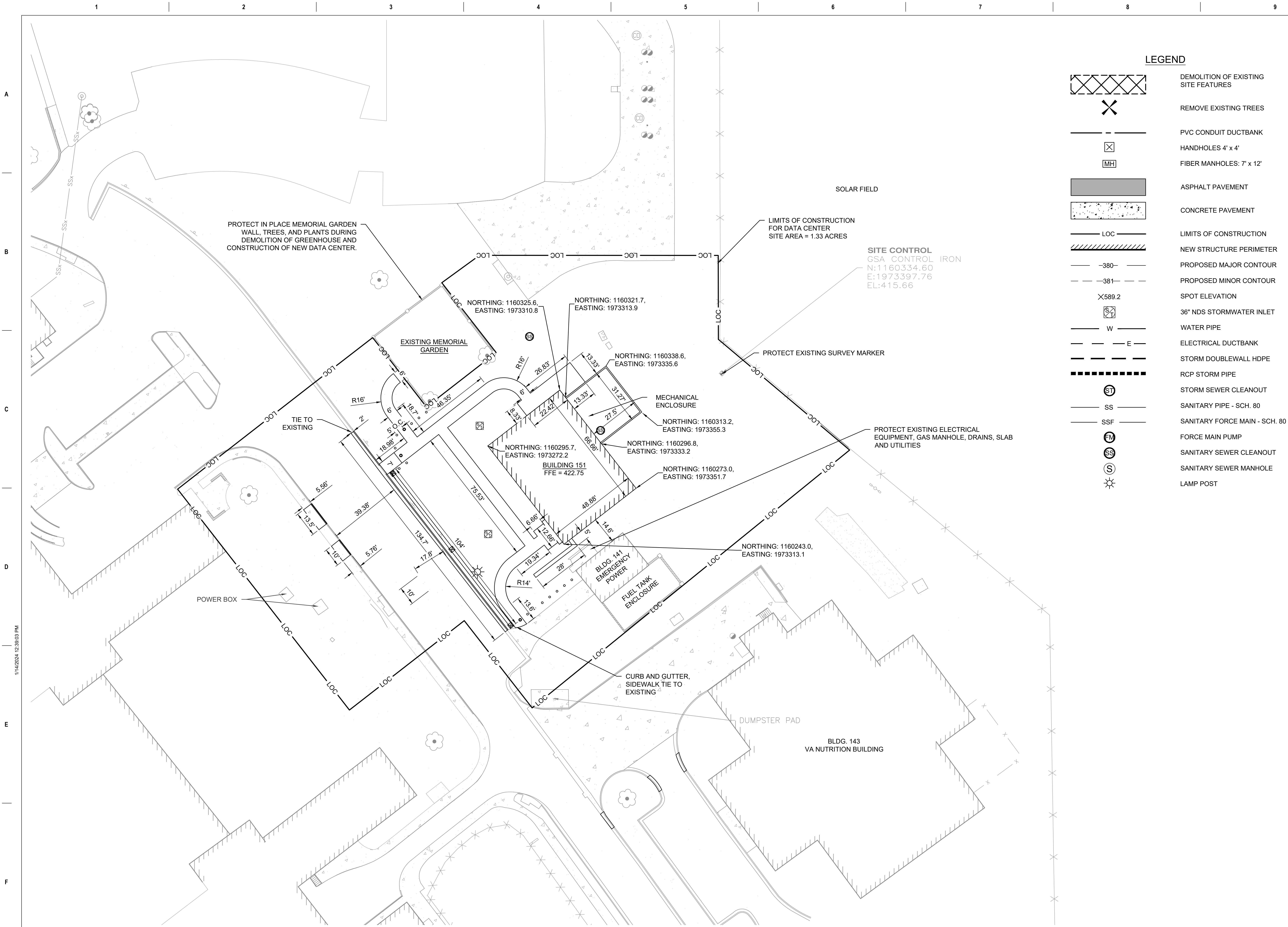


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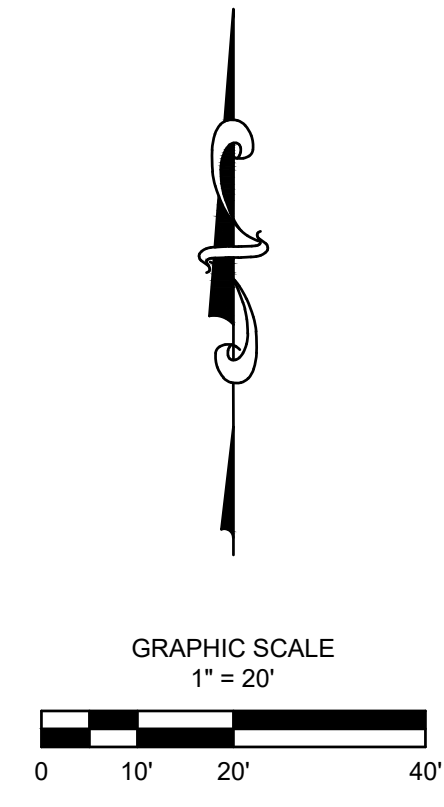
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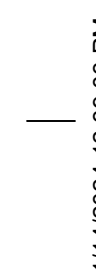
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1 HORIZONTAL CONTROL PLAN - DATA CENTER  
Scale: 1:20

<div>Revisions:</div> <div>Date:</div>		<div>CONSULTANT</div> <div>Wiley Wilson</div> <div>127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com</div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div>Atriax</div> <div>www.atriaxgroup.com</div> <div>Atriax, PLLC 703 Main Avenue, SW PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254</div>		<div>STAMP</div> <div>03/08/2024</div>	<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>HORIZONTAL CONTROL PLAN - DATA CENTER</div> <div>Approved: Project Director</div>	<div>Phase</div> <div>100% CONSTRUCTION DOCUMENTS</div>	<div>Project Title</div> <div>PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES</div>	<div>Project Number</div> <div>679-20-104</div>	<div>Building Number</div> <div>BLDG. 151</div>	<div>Location</div> <div>TUSCALOOSA VAMC, TUSCALOOSA, AL</div>	<div>Issue Date</div> <div>3/08/2024</div>	<div>Checked</div> <div>HJM</div>	<div>Drawn</div> <div>JTK</div>	<div>Drawing Number</div> <div>CS106</div>
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## C

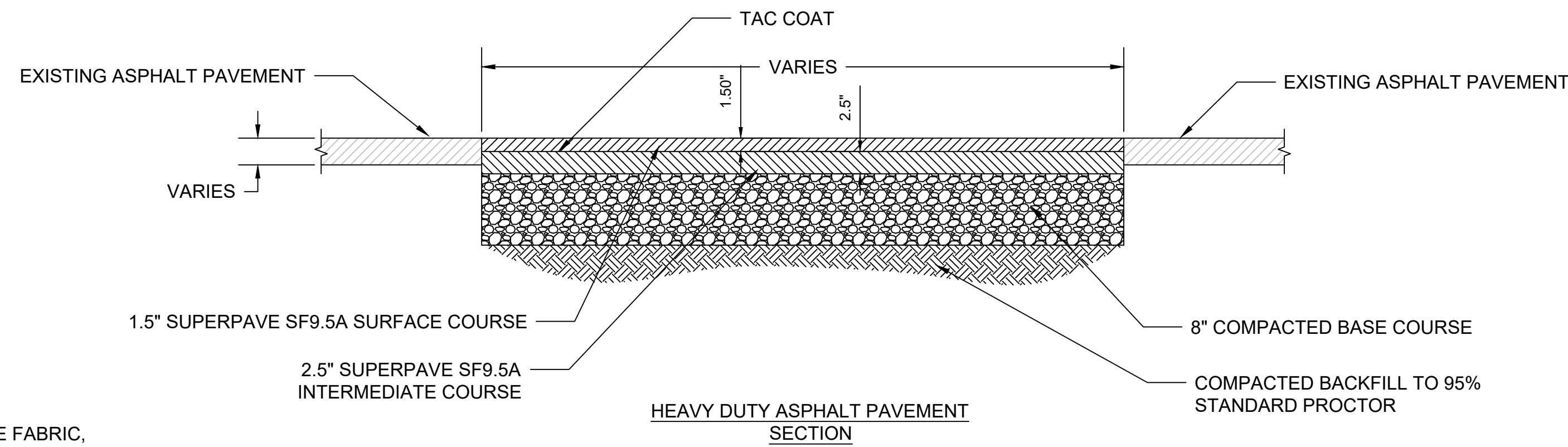
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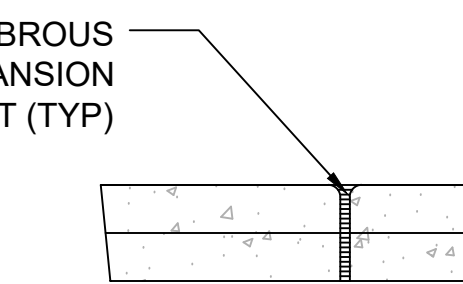
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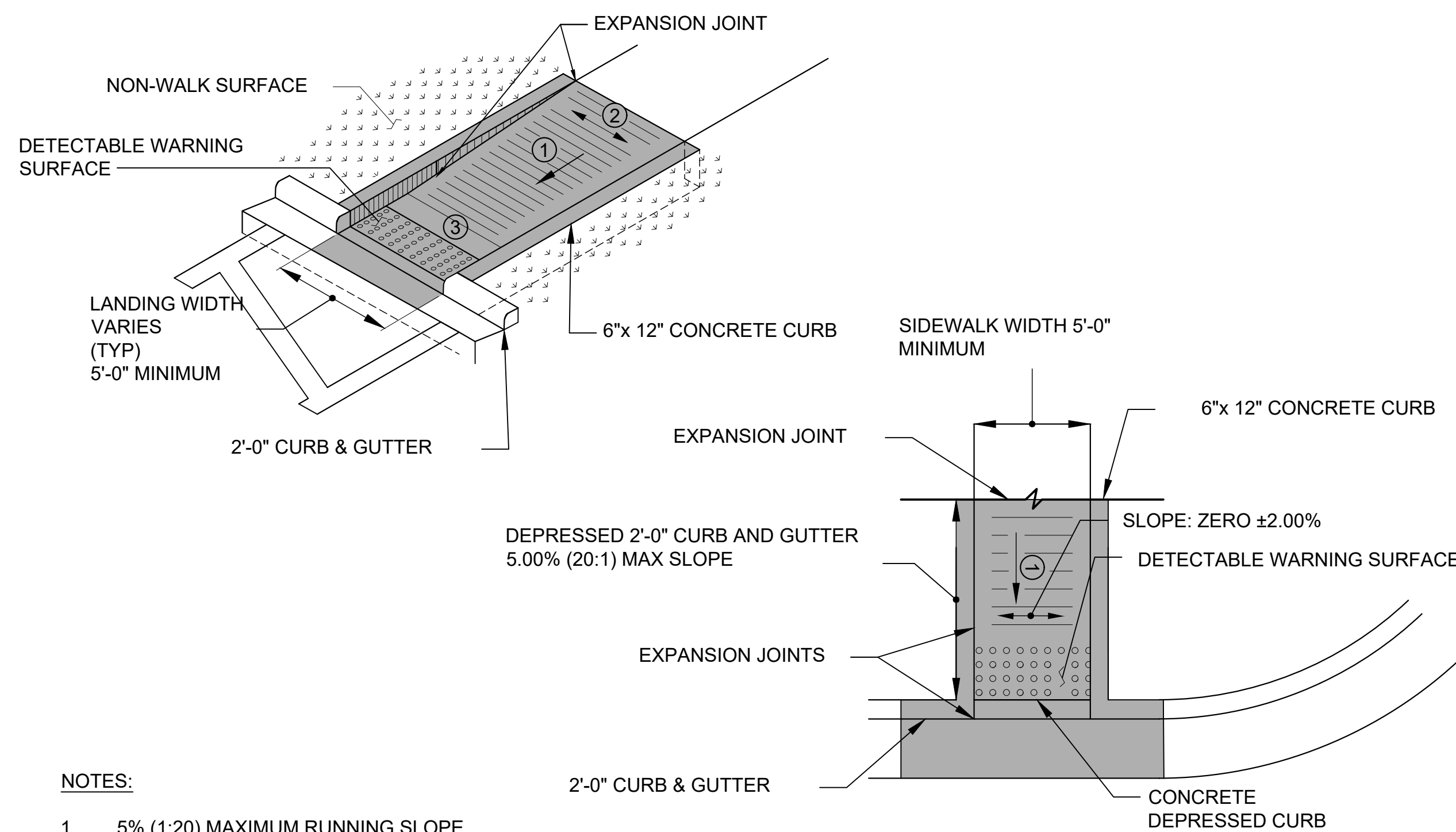


1. REPLACEMENT ROAD AND PARKING LOT SECTIONS ARE TO BE CONSTRUCTED, AT A MINIMUM, TO MATCH EXISTING OR MATCH DETAIL ABOVE, WHICHEVER IS MORE RESTRICTIVE.
2. WHERE EX. ASPHALT SECTION IS DEMOLISHED AND REPLACED WITH NEW, DEMOLISH EX. ASPHALT AND SUBGRADE, RECOMPACT SLOPE, RECONSTRUCT ROAD TO MATCH EXISTING BASE AND ASPHALT THICKNESS. RE-ESTABLISH RUNNING AND CROSS-SLOPE IN REPLACEMENT SECTIONS TO MATCH EXISTING ROADWAYS. MATCH EXISTING ASPHALT ELEVATIONS AND CROWNS TO MAINTAIN DRAINAGE AND A EVEN DRIVING SURFACE.
3. FINISH ASPHALT SURFACE TO MATCH EXISTING GRADES AND CROWN TO PREVENT PONDING. SLOPE TO DRAIN.
4. SUBGRADE COMPACTED TO 95% MAX DRY DENSITY ASTM D698 (SDT. PROCTOR) WITH COMPACTION WITHIN 3% OF OPTIMUM MOISTURE.
5. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO VA STANDARDS AND ALDOT SPECIFICATIONS. WHERE SPECS. DIFFER, ALDOT STANDARDS AND SPECS. SHALL GOVERN.
6. ALL LAYERS OF ASPHALT SHALL HAVE A TAC COAT APPLIED BETWEEN EACH LAYER AND WHERE NEW ASPHALT ABUTS EXISTING.
7. WHERE SLOPES ARE MINIMAL, USE LASER LEVELS TO SLOPE AND MAINTAIN DRAINAGE.
8. CONTRACTOR TO HAVE 3RD PARTY CONTRACTOR (GEOTECH) TO TEST AND CERTIFY MINIMUM COMPACTION REQUIREMENTS FOR ALL PAVEMENT AREAS AT RANDOM INTERVALS, BUT NO LESS THAN 1 TEST PER 1+00.00 OF ROADWAYS.



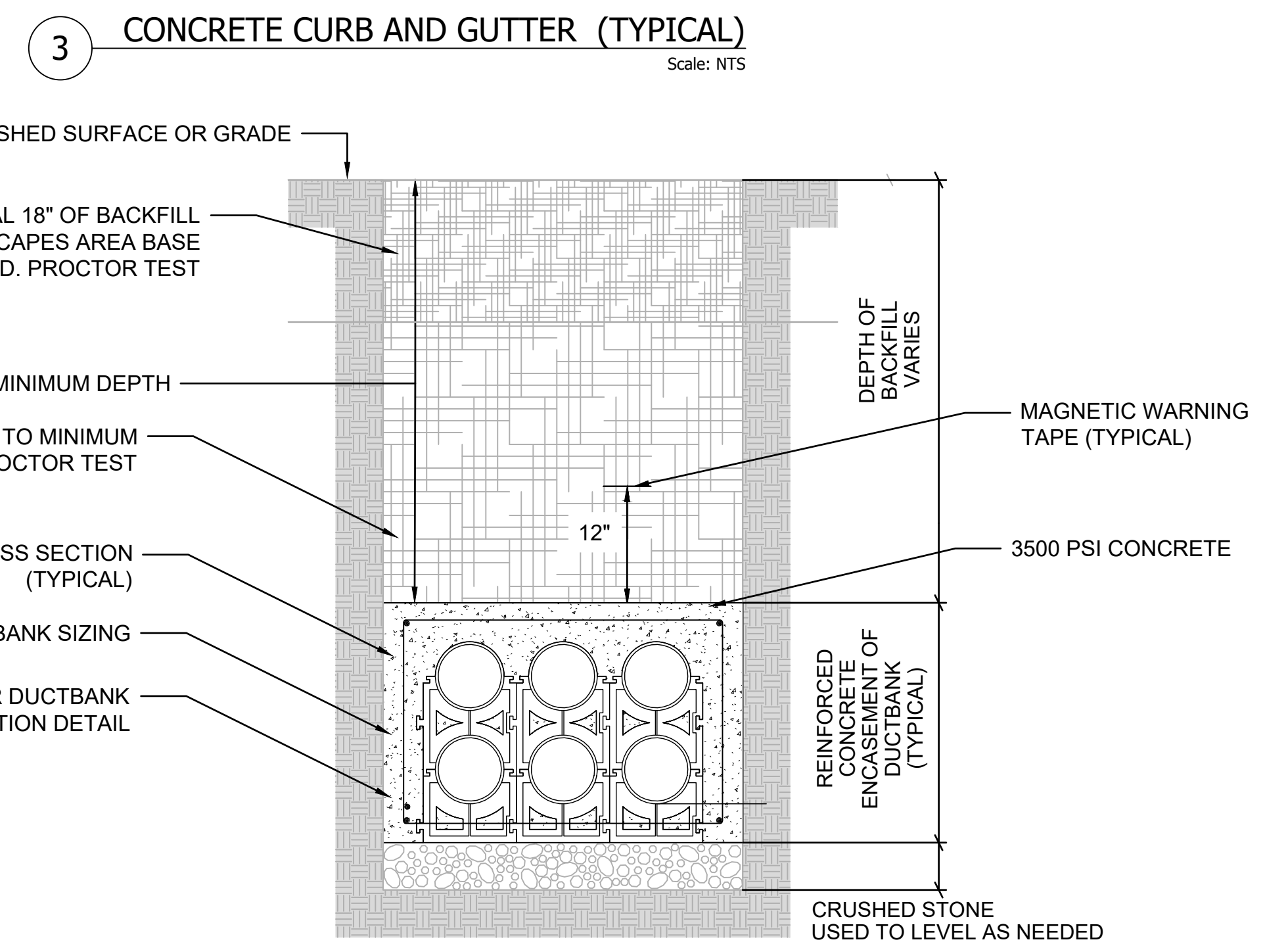
1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. FOR VALLEY GUTTER, A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90-FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS ABUTTING THE SIDEWALK.
4. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100% STD. PROCTOR DENSITY.
5. CURB SHALL BE DEPRESSED AS REQUIRED FOR ACCESSIBLE RAMP INSTALLATION. REFER TO PLANS AND RAMP DETAILS FOR LOCATIONS AND IF DEPRESSED CURB IS REQUIRED.
6. CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI TO BE USED; ACHIEVED AFTER 28 DAYS.

2 ASPHALT PAVEMENT DETAIL (TYPICAL) Scale: NTS



1. CONCRETE ROADWAYS, DRIVEWAY APRONS, LOADING ZONES THAT ARE DEMOLISHED SHALL BE REPLACED TO MATCH EXISTING OR A MINIMUM OF 8 INCHES OF CONCRETE AS SHOWN IN THIS DETAIL; WHICHEVER IS THICKER.
2. NEW CONCRETE SHALL BE SLOPED TO DRAIN, AND FINISHED TO MATCH EXISTING.
3. CONCRETE TO BE PLACE 8" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLED BROOMS.
4. CONCRETE WITH TRANSVERSE AND EXPANSION JOINTS TO BE LOCATED AND BUILT TO MATCH EXISTING CONFIGURATION.
5. TOOLED JOINTS WITH RADIUS EDGES
6. RECOMMENDED MAXIMUM JOINT SPACING FOR 8" SLAB IS 15 FEET. CONFIGURE JOINTS TO CREATE RECTANGULAR, SYMMETRICAL SECTIONS.
7. USE #4 DOWLS, 1"Ø BY 20" LONG, AT CONSTRUCTION JOINTS WHERE BREAK IN POUR.
8. USE 3" ISOLATION JOINTS, 1' MIN FROM FLANGE EDGE AT MANHOLES, CLEANOUTS, INLETS, AND OTHER STRUCTURES IN CONCRETE.
9. CONTRACTOR TO HAVE 3RD PARTY CONTRACTOR (GEOTECH) TO TEST AND CERTIFY MINIMUM COMPACTION REQUIREMENTS FOR ALL PAVEMENT AT RANDOM INTERVALS.

4 CONCRETE ROADWAY SECTION (TYPICAL) Scale: NTS



1. SIZE TRENCH WIDTH (W) TO SIZE OF DUCTBANK.
2. DUCTBANK MINIMUM DEPTH (D) OF 3 FT
3. COMPACT IN-SITU AND BACKFILL SOILS TO 95% STD. PROCTOR, 6" LIFTS, AND TO 98% SHOWN BENEATH ROADWAYS, CURB AND GUTTER, SIDEWALKS, AND OTHER HARDSCAPES.
4. REFER TO DETAILS 1 THRU 4-C/502 FOR BACKFILL AND PATCHING OVER DUCTBANK.
5. DUCTBANK TRENCH SHOULD DRAIN TO HANDHOLES/MANHOLE.

6 DUCTBANK TRENCH (TYPICAL) Scale: MTS

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of Veterans Affairs

Approved: Project Director

100% CONSTRUCTION  
DOCUMENTS

Project Title	PROJECT # 679-20-104 EHRM INFRASTRUCTURE UPGRADES
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Project Number  
679-20-104

Building Number

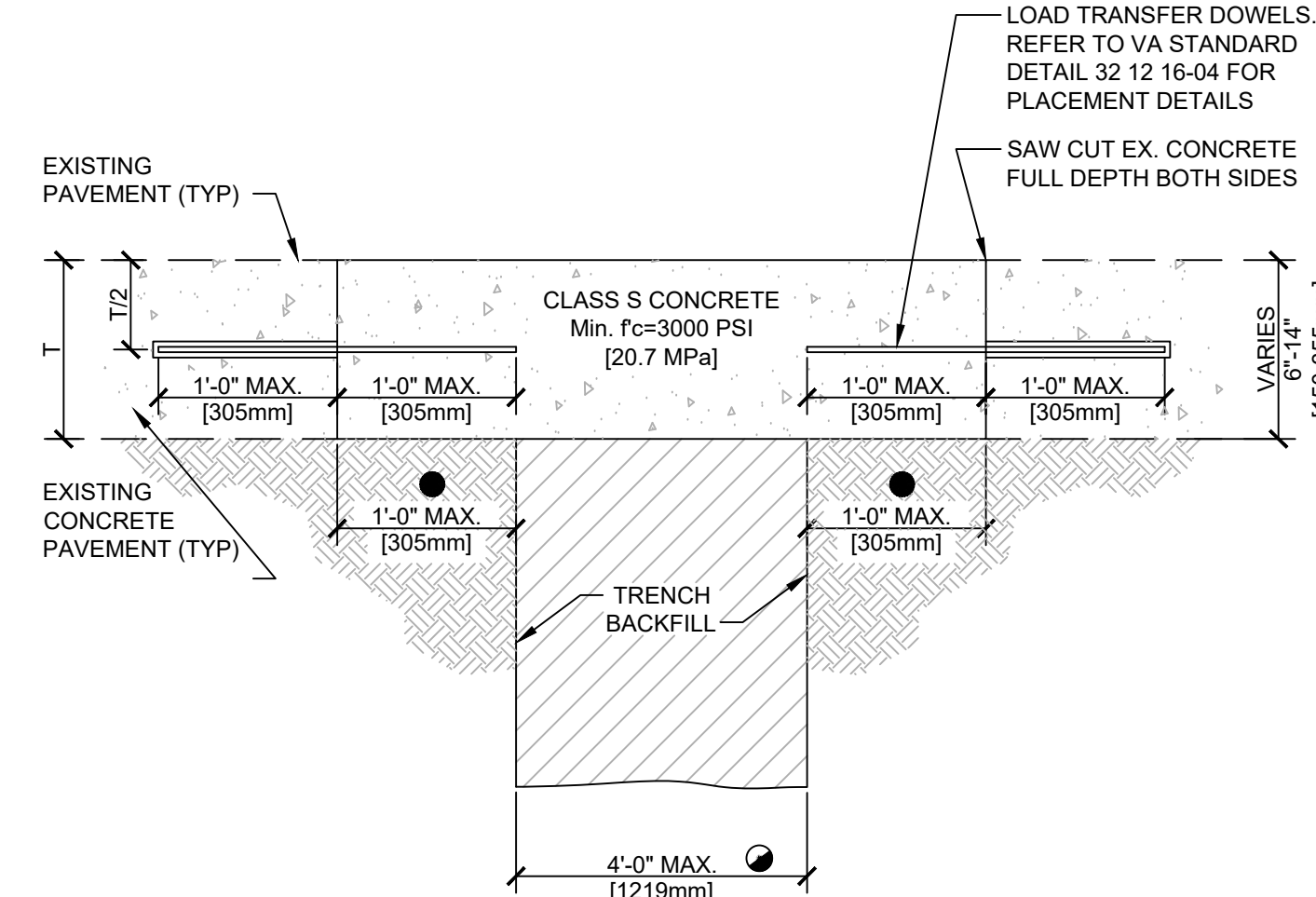
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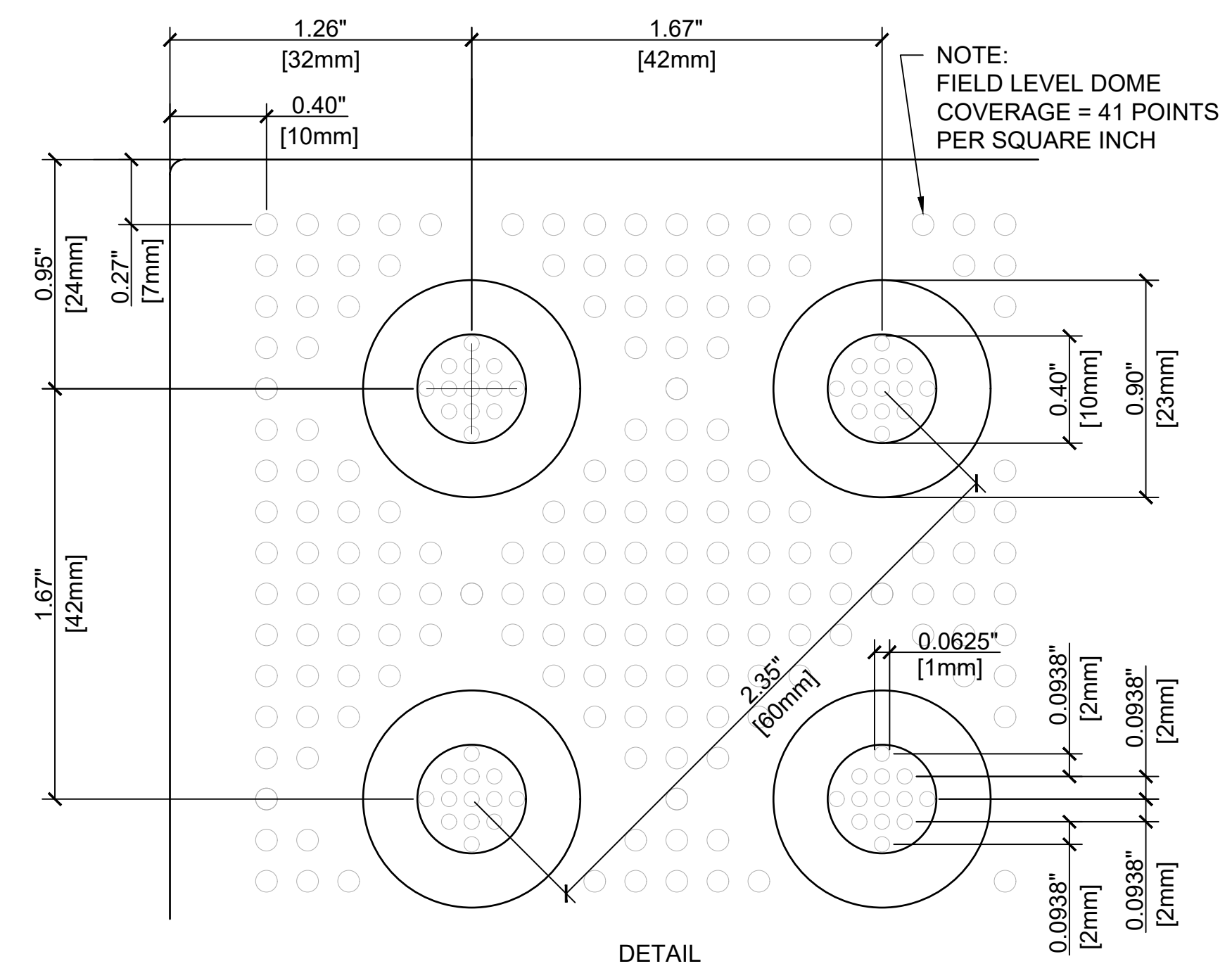
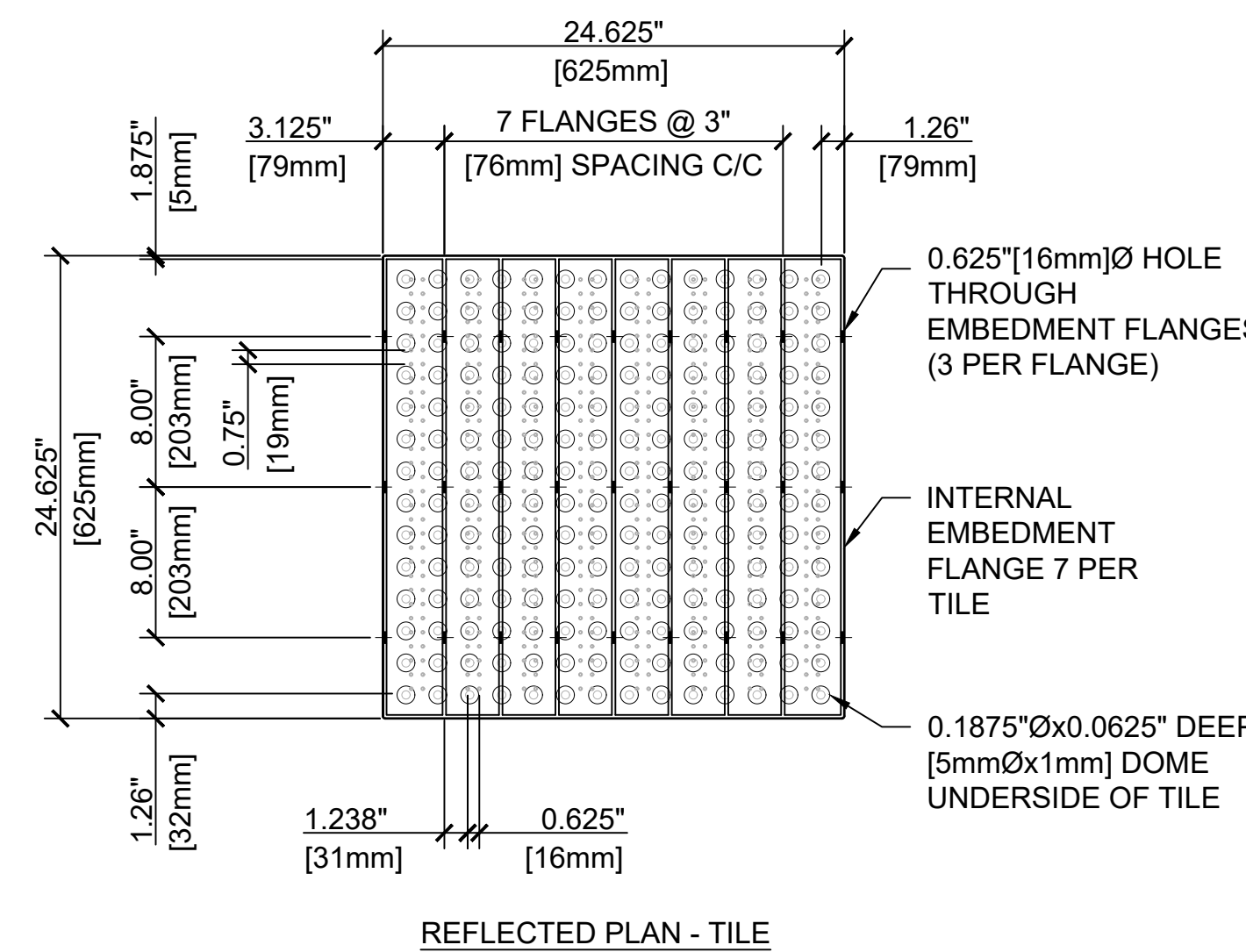
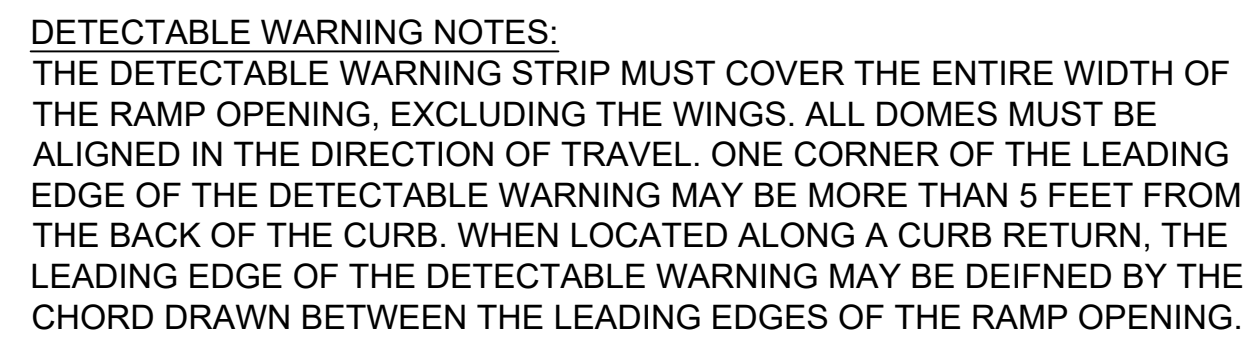


- FOR TRENCH WIDTHS EXCEEDING 4' (1219mm) DELETE LOAD TRANSFER DOWELS.
  - REFER TO NOTE 13 ON VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES".
- REFER TO VA STANDARD DETAIL 32 12 16-04 "UTILITY TRENCH PAVEMENT PATCH NOTES" FOR ADDITIONAL INFORMATION.

1. MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
  2. TRENCH BACKFILL SHALL COMMENCE 1 FOOT [305mm] ABOVE THE TOP OF PIPE AND SHALL BE PER SECTION 31 20 11 - EARTHWORK.
  3. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION 31 20 11 - EARTHWORK. ALL TRENCH BACKFILL SHALL BE PLACE IN 4-INCH LIFTS, AND COMPACTED AS REQUIRED DEPENDING ON IF PAVED OR IN LANDSCAPING AREA. CONTRACTOR RESPONSIBLE FOR TESTING AND CONFIRMING THAT SOIL IS PLACED IN APPROPRIATE LIFTS AND COMPACTED AS REQUIRED.
  4. CONTRACTOR TO TEST EACH SOIL LIFT IS COMPACTED AS REQUIRED.
  5. THE 1 FOOT [305mm] TRENCH "SHOULDER" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
  6. ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23 - CONCRETE PAVEMENT OR 32 12 16 - ASPHALT PAVEMENT.
  7. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 03 30 53 - CAST-IN-PLACE CONCRETE.
  8. ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 - ASPHALT PAVING.
  9. ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 - ASPHALT PAVING FOR THE TYPE SPECIFIED.
  10. BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 12 16 - ASPHALT PAVING FOR THE TYPE SPECIFIED.
  11. LOAD TRANSFER DOWELS FOR JOINTS TRANSVERSE TO THE ROADWAY CENTERLINE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 32 05 23 - CONCRETE PAVEMENT. DOWELS SHALL BE SIZED AND SPACED AS FOLLOWS:
- | PCCP THICKNESS | DOWEL SIZE               | DOWEL LENGTH | DOWEL SPACING    |
|----------------|--------------------------|--------------|------------------|
| 6" [150mm]     | #5 [No. 10] 12" [305mm]  | 14" [455mm]  | 12" [305mm] O.C. |
| 7" [180mm]     | #6 [No. 19] 15" [380mm]  | 15" [380mm]  | 12" [305mm] O.C. |
| 8" [180mm]     | #6 [No. 19] 15" [380mm]  | 15" [380mm]  | 12" [305mm] O.C. |
| 10" [180mm]    | #10 [No. 19] 15" [380mm] | 15" [380mm]  | 12" [305mm] O.C. |
12. DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET [15240mm]. THE BARS SHALL BE 24 INCHES [610mm] LONG, DEFORMED #4 [No. 13] BARS FOR PCPP LESS THAN 8 INCHES [205mm] THICK OR 18" BARS IF 8 INCHES [205mm] THICK OR MORE. THE BARS SHALL BE PLACED 30 INCHES [760mm] CENTER-TO-CENTER.
  13. HOLES SHALL BE DRILLED 1 FOOT [305mm] INTO THE EXISTING SLAB FOR THE BARS AND 7 INCHES [180mm] FOR DOWELS. HOLES SHALL BE OF A DIAMETER SUFFICIENT TO ACCOMMODATE THE TIE BAR ANCHORAGE OR DOWEL CAP. THE BARS SHALL BE ANCHORED WITH AN APPROVED HIGH VISCOSITY EPOXY.
  14. IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 8 FEET [1524mm] AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.

<u>PCCP THICKNESS</u>	<u>DOWEL SIZE</u>	<u>DOWEL LENGTH</u>	<u>DOWEL SPACING</u>
6" [150mm]	#5 [No. 16] 12" [305mm]	18" [455mm]	12" [305mm] O.C.
7" [180mm]	#6 [No. 19] 15" [380mm]	15" [380mm]	12" [305mm] O.C.
8" [180mm]	#8 [No. 19] 15" [380mm]	12" [305mm]	12" [305mm] O.C.
10" [180mm]	#10 [No. 19] 15" [380mm]	12" [305mm]	12" [305mm] O.C.

#### 4 UTILITY TRENCH PATCH NOTES (TYPICAL)

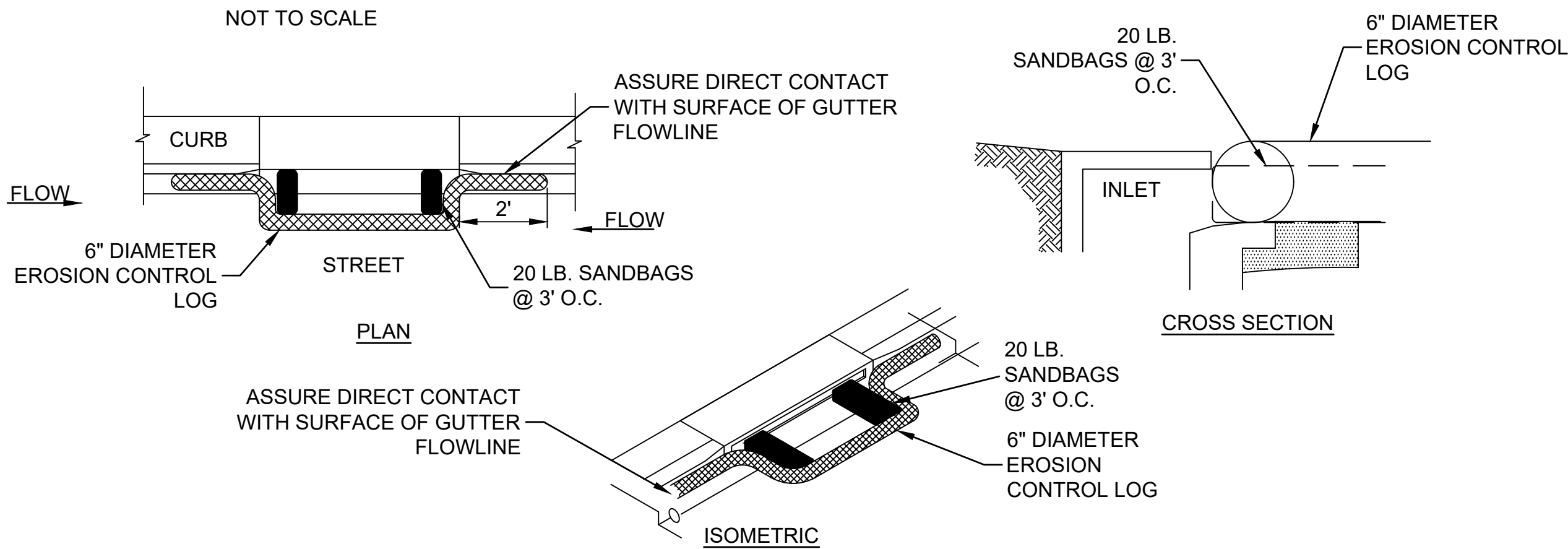


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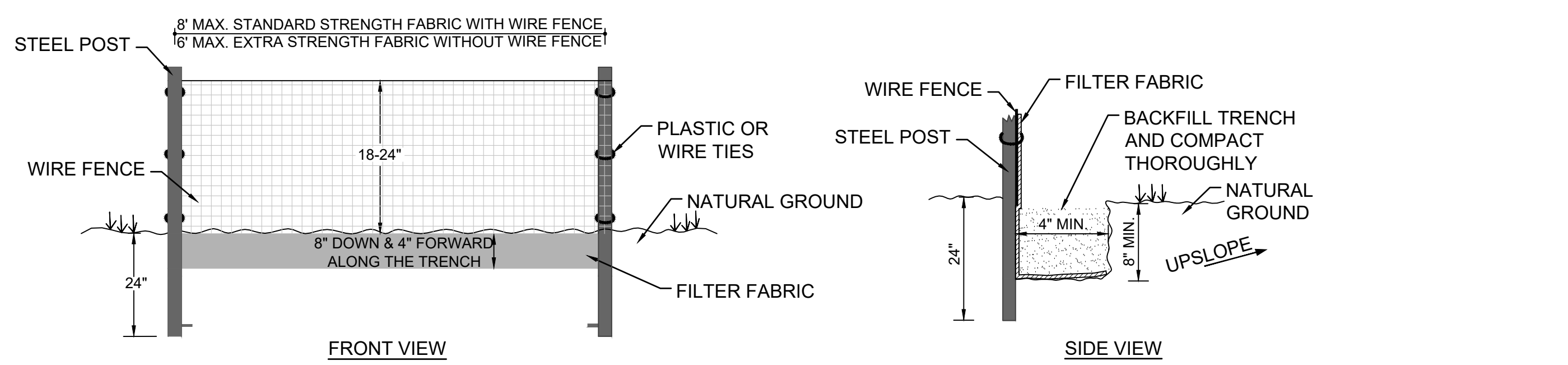


CONSTRUCTION SPECIFICATIONS

- NOTES:**
- INLET TUBES ARE TEMPORARY FILTERING DEVICES PLACED AROUND INLET STRUCTURES TO TRAP SEDIMENT AND KEEP SILT, SEDIMENT, AND CONSTRUCTION DEBRIS FROM ENTERING PIPE SYSTEMS THROUGH OPEN INLET STRUCTURES. ADDITIONALLY, INLET TUBES PREVENT THE SILTING-IN OF INLETS, STORM DRAINAGE SYSTEMS, AND RECEIVING CHANNELS.
- WEIGHTED INLET TUBES ARE APPLICABLE FOR INLETS WITH DRAINAGE AREAS LESS THAN 1-ACRE. WEIGHTED INLET TUBES ARE USED FOR PLACEMENT ON PAVEMENT AND HARDSCAPES. WEIGHTED INLET TUBES ARE TO BE USED WHERE CONSTRUCTION TRAFFIC MAY OCCUR AROUND THE INLET. ALL WEIGHTED TYPE F INLET STRUCTURES FILTERS ARE APPLICABLE AS TYPE E INLET STRUCTURE FILTERS.
- MATERIALS:**
- USE INLET TUBES THAT EXHIBIT THE FOLLOWING PROPERTIES:
- PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING.
  - COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS, OR HARDWOOD MULCH OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL.
  - DO NOT USE STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES, OR LEAF MULCH UNDER THIS SPECIFICATION.
  - UTILIZE AN OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIALS.
- INSTALLATION**
- DO NOT COMPLETELY BLOCK INLETS WITH WEIGHTED INLET TUBES.
  - INSTALL WEIGHTED INLET TUBES IN SUCH A MANNER THAT ALL OVERFLOW OR OVERTOPPING WATER HAS THE ABILITY TO ENTER THE INLET UNOBSTRUCTED.
  - TO AVOID POSSIBLE FLOODING, TWO OR THREE CONCRETE CINDER BLOCKS OR SAND BAGS MAY BE PLACED BETWEEN THE WEIGHTED INLET TUBES AND THE INLET.
- INSPECTION AND MAINTENANCE**
- INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/2-INCHES OR MORE OF RAIN. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY.
  - INLET TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION AS NEEDED.
  - REPLACE INLET TUBES DAMAGED DURING INSTALLATION AS DIRECTED BY THE INSPECTOR OR MANUFACTURER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
  - WHEN SEDIMENT REACHES  $\frac{3}{4}$  THE HEIGHT OF THE INLET TUBE, REMOVE THE SEDIMENT.
  - SHOULD INLET TUBES BECOME FULL OF SEDIMENT, SUCH THAT FILTRATION IS NO LONGER OCCURRING, REMOVE AND REPLACE THE TUBE.

1 WEIGHTED INLET TUBES (TYPICAL)

Scale: NTS



CONSTRUCTION SPECIFICATIONS

MATERIALS

- USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461.
  - SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120 F.
  - ENSURE THAT POSTS FOR SEDIMENT FENCE ARE 1.33 LB/LINEAR FT. STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE THE FASTENING OF THE FILTER FABRIC.
  - FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.
- CONSTRUCTION**
- CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
  - ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
  - CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FOOT MINIMUM OVERLAP TO THE NEXT POST.
  - SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND
- MAINTENANCE**
- INSPECT SEDIMENT FENCES DAILY AND AFTER EACH RAINFALL GREATER THAN  $\frac{3}{4}$ ". MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
  - SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
  - REMOVE ALL FENCING MATERIALS AND UNSUITABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE, AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

2 SILT FENCE DETAIL (TYPICAL)

Scale: NTS

3 SEEDING TEMPORARY SOIL STABILIZATION (TYPICAL)

Scale: NTS

Sod Selection

The species of sod selected should be adapted to both the site and the intended purpose. Species used in Alabama include bermuda, zoysia, centipede, St. Augustine, tall fescue, and bahiagrass. Tall fescue and bahiagrass are not readily available but can be obtained from some growers. Species selection is primarily determined by region, availability, and intended use. Use Table SOD-1 and Figure SOD-1 for guidance in selecting sod.

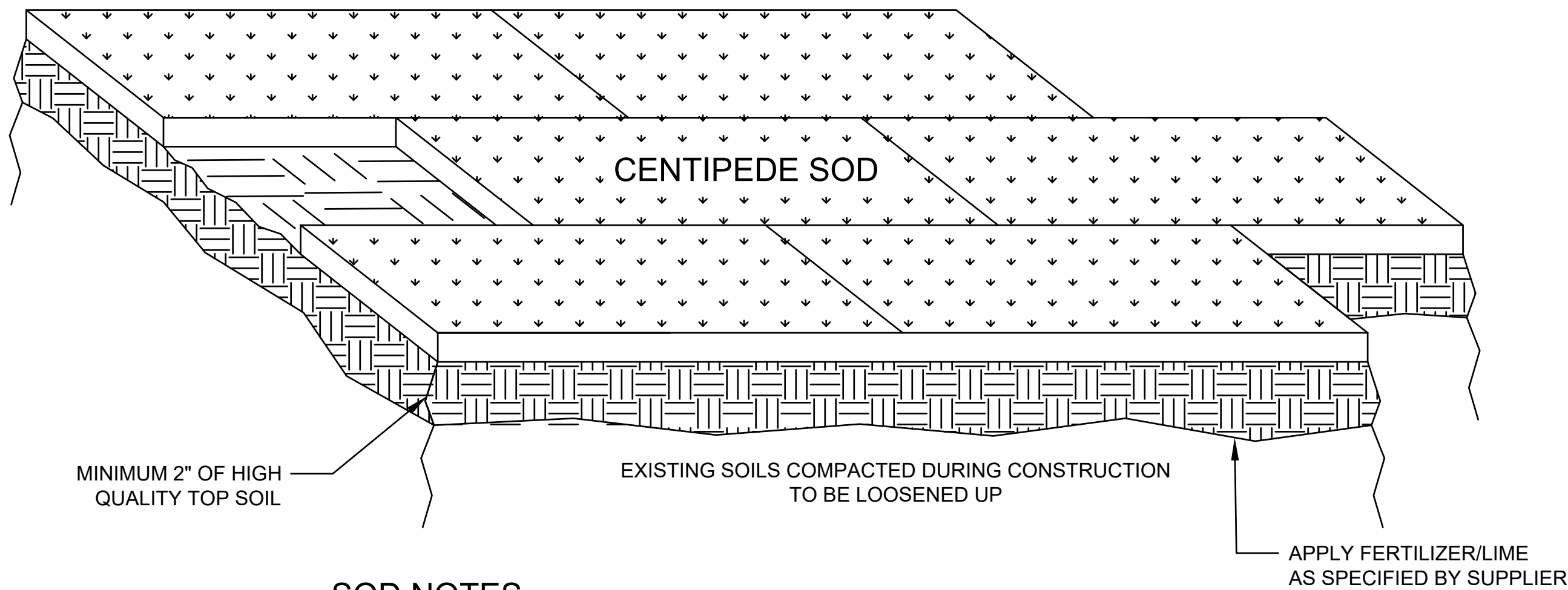
Table SOD-1 Grasses Adapted for Sodding in Alabama

Warm Season Grasses		
Species	Variety <sup>1</sup>	Area Adapted
Bermudagrass	Tifway, TifSport, Celebration, TifGrand, Common	North, Central, South
Bahiagrass	Pensacola	Central, South
Centipede	Common, TifBlair	Central, South
St. Augustine	Common, and a few commercial varieties	South
Zoysia	Any selection available in Alabama. Zenith is seeded	Central, South
Cool Season Grasses		
Tall Fescue	Kentucky 31, Rebel (turf type)	North

<sup>1</sup> Listing of a variety is not an endorsement of a Company product. New and better varieties may become available over time.

Surface Preparation

Prior to laying sod, clear the soil surface of trash, debris, roots, branches, stones, and clods larger than 2" in diameter. Fill or level low spots to avoid standing water. Rake or harrow the site to achieve a smooth and movable final grade. Apply appropriate soil amendments prior to final disking. Complete soil preparation by disking, chiseling or other appropriate means and then rolling or cultipacking to firm the soil. Limit the use of heavy equipment on the area to be sodded, particularly when the soil is wet, as this may cause excessive compaction and make it difficult for the sod to penetrate the soil and develop the root system that it should attain.



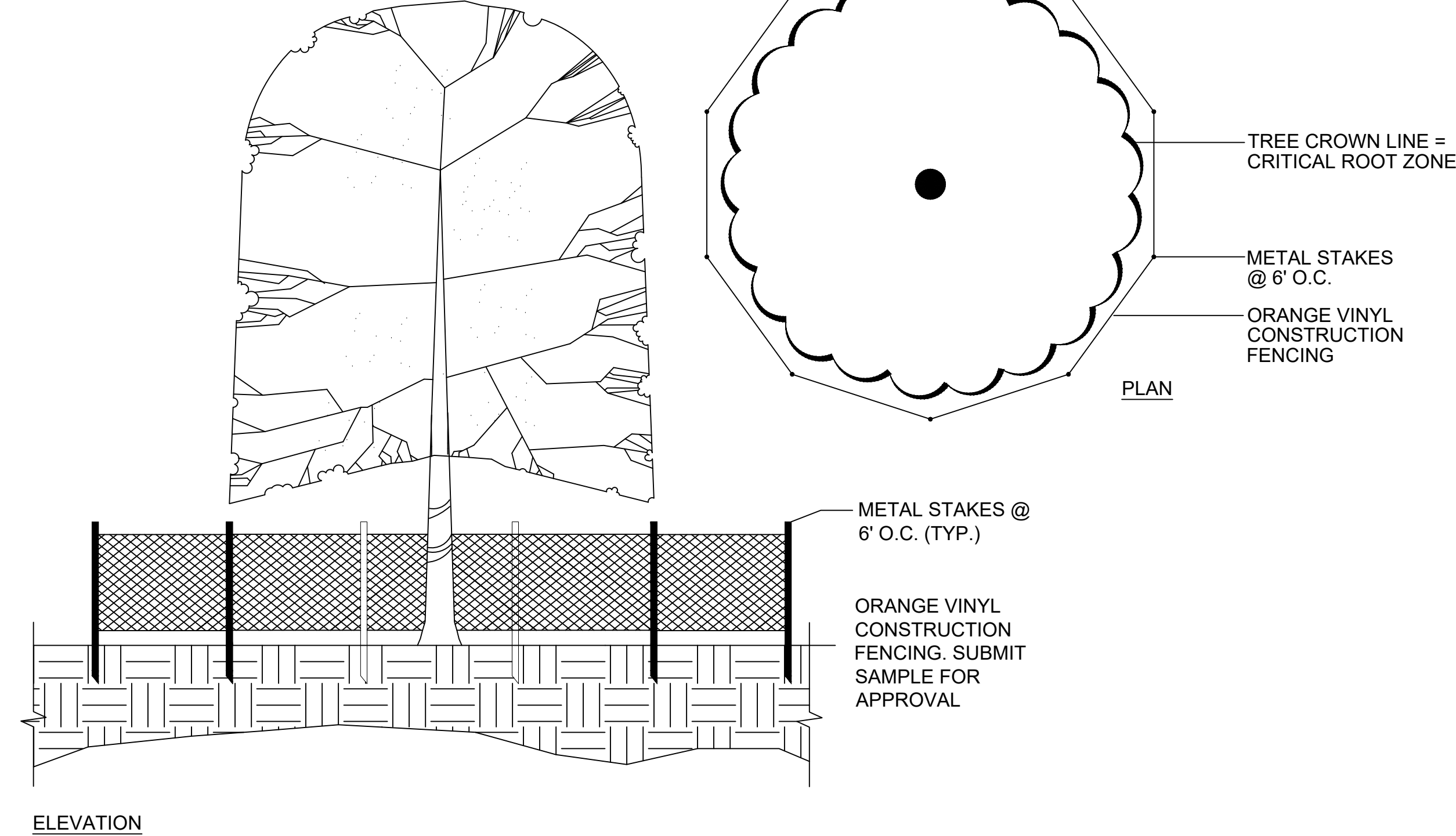
SOD NOTES

MATERIALS

- PREPARE SOIL FOR SOD. LOOSEN EXISTING SOILS COMPACTED DURING CONSTRUCTION/BACKFILLING THE DUCTBANK.
- PLACE A MINIMUM OF 2 INCHES OF TOP SOIL IN AREAS TO RECEIVE SOD.
- APPLY FERTILIZER, LIME TO TOP SOIL AS REQUIRED TO BEST PREPARE SOIL FOR SOD. FOLLOW ALL SUPPLIER RECOMMENDATIONS FOR PREPARING SOIL, ESTABLISHMENT, AND MAINTENANCE OF THE SOD. INSTALL SOD PER SUPPLIERS SPECIFICATIONS.
- SOD IS TO BE WATERED, FERTILIZED, AND OTHERWISE MAINTAINED PER SUPPLIERS SPECIFICATIONS BY THE CONTRACTOR UNTIL THE FINAL STABILIZATION OF THE SITE IS ACHIEVED AND APPROVED BY THE COR. AT THE COMPLETION OF THE PROJECT.
- FINAL CONDITION OF SOD AT END OF PROJECT SHALL BE SATISFACTORY THAT THE SOD WILL SURVIVE.
- SOD SECTIONS THAT DIE, OR THAT MUST BE REPLACED SHALL BE DONE SO AT NO ADDITIONAL COST TO THE VA.

5 TEMPORARY AND PERMANENT SODDING (TYPICAL)

Scale: NTS



NOTES:

- ALL PROTECTIVE FENCING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY SITE WORK AND REMAIN IN PLACE UNTIL ALL WORK HAS BEEN COMPLETED. IF FENCE REMOVAL IS REQUIRED, OBTAIN PRIOR PERMISSION FROM THE COR.
- TREE PROTECTION SHALL BE INSTALLED WHERE DUCTBANK CONSTRUCTION ENCROACHES CLOSER THAN 20 FEET FROM THE TRUNK OF A TREE.
- WHERE ENTIRE TREE TRUNK IS WITHIN 20 FT OF A DUCTBANK, THE ENTIRE TREE SHALL BE SURROUNDED WITH TREE PROTECTION FENCE.
- FOR SMALL TREES, LESS THAN 25 FT TALL, THE TREE PROTECTION SHALL FOLLOW THE DRIP LINE OF THE TREE.

6 TREE PROTECTION FENCE (TYPICAL)

Scale: NTS

4 PERMANENT SODDING REQUIREMENTS (TYPICAL)

Scale: NTS

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**Drawing Title**

**CIVIL DETAILS 3**

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**Approved:** Project Director

**Phase**

**100% CONSTRUCTION DOCUMENTS**

**Project Title**

**PROJECT # 679-20-104**  
**EHRM INFRASTRUCTURE UPGRADES**

**Location**

**TUSCALOOSA VAMC, TUSCALOOSA, AL**

**Issue Date**

**3/08/2024**

**Checked**

**HJM**

**Drawn**

**JTK**

**Project Number**

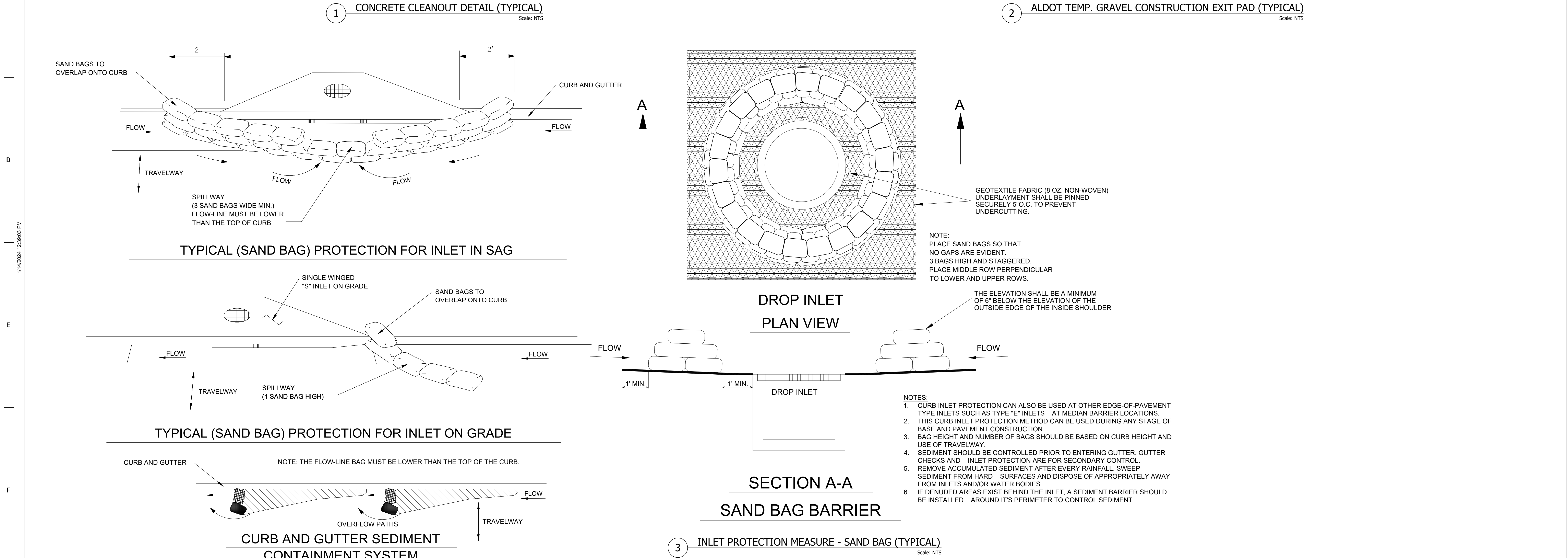
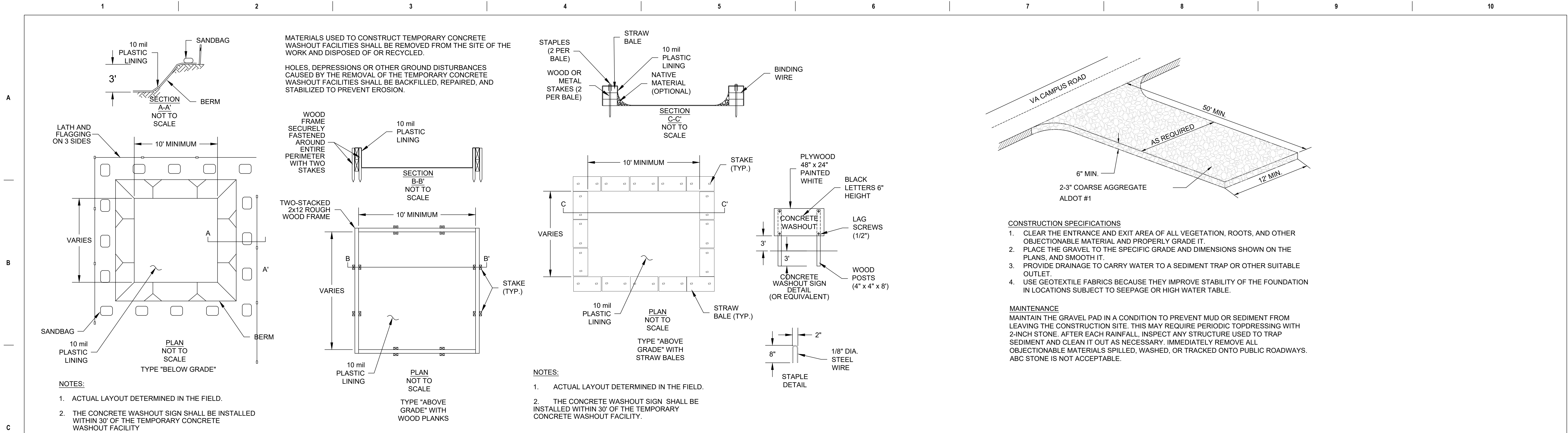
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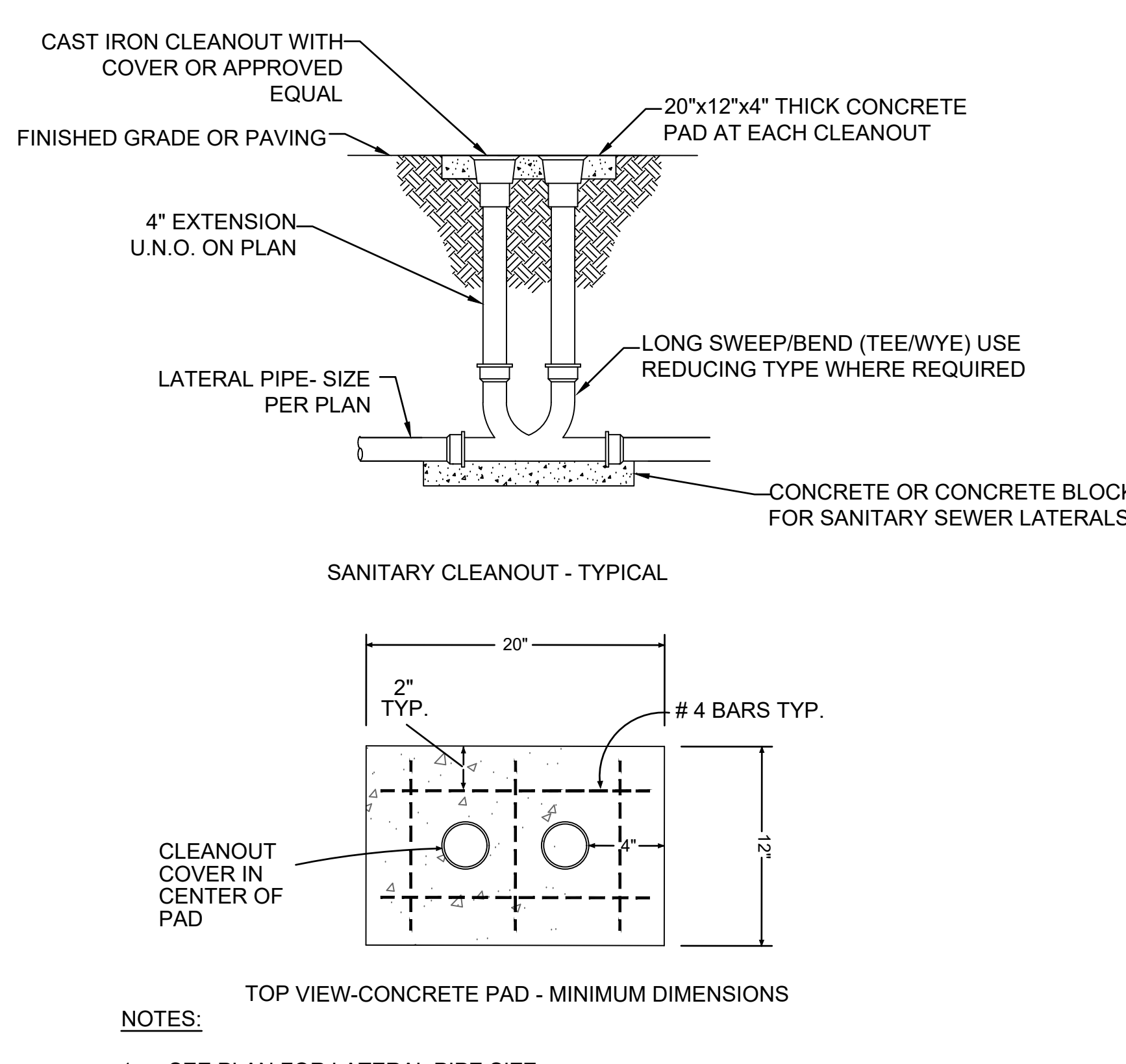
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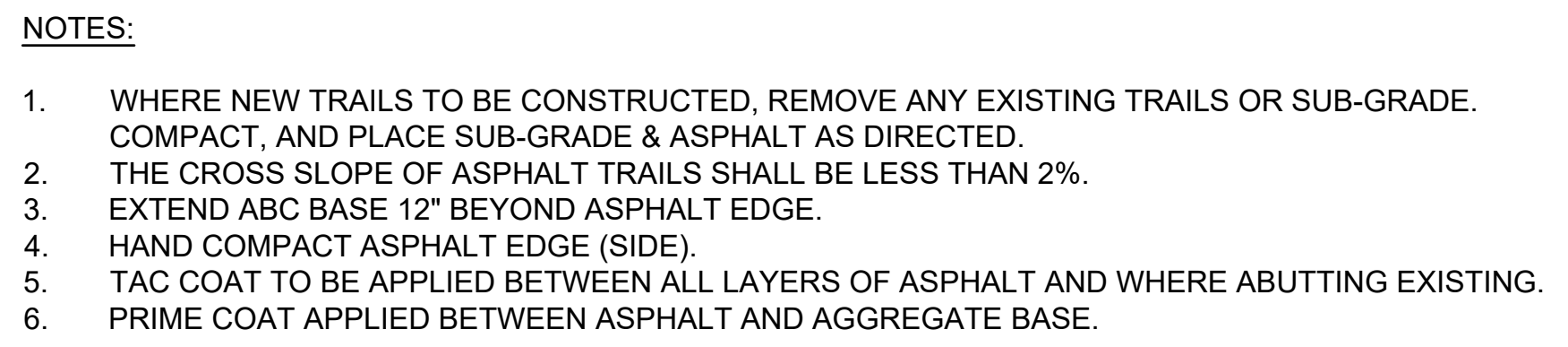


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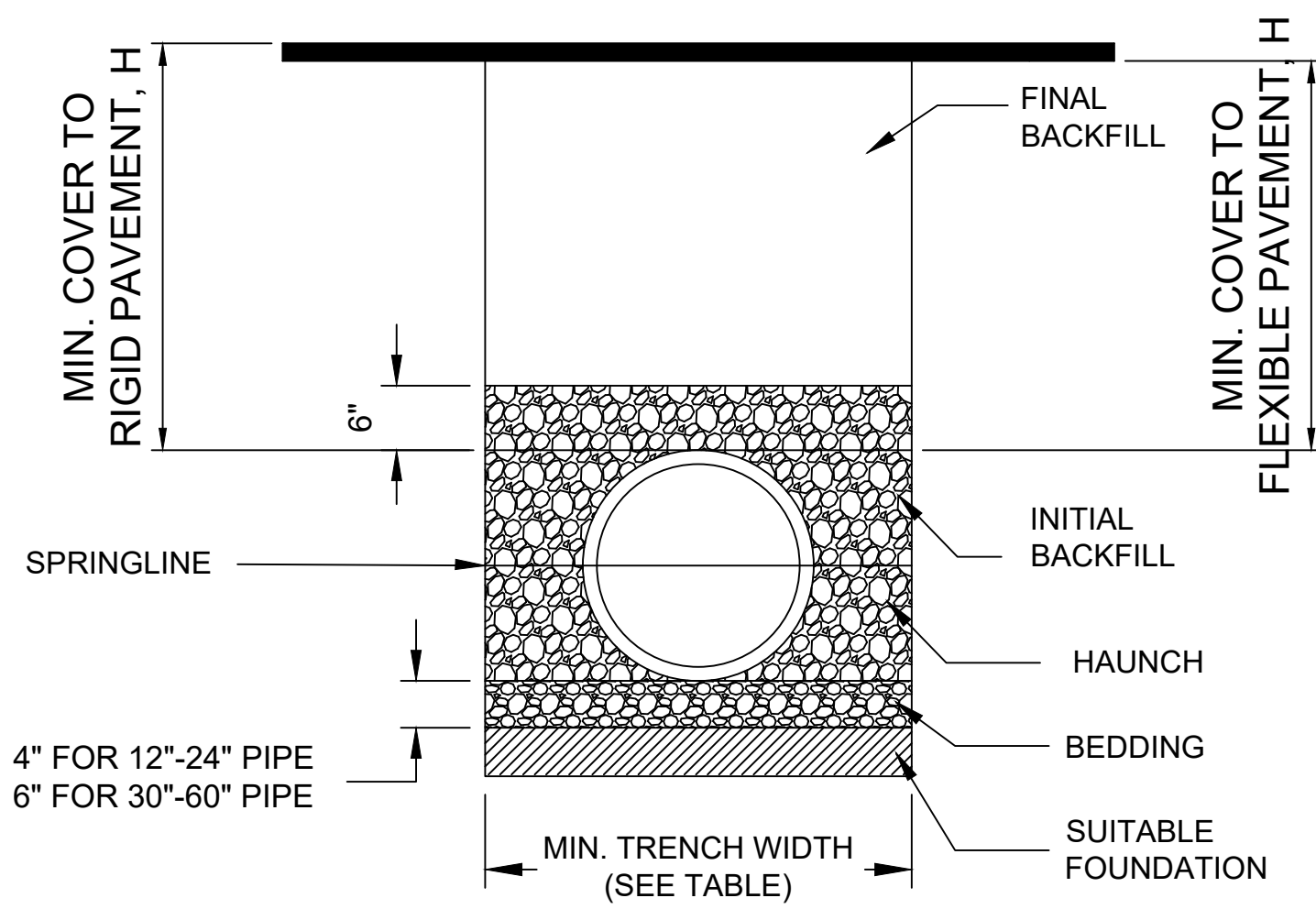


4 SANITARY LATERAL AND CLEANOUT (TYPICAL) Scale: NTS



6 ASPHALT TRAIL DETAIL (TYPICAL)  
Scale: NTS





NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. SLEEVE HDPE PIPE: PIPE RUN UNDER/THROUGH FOOTINGS SHALL BE SLEVED TO PROTECT THE HDPE PIPE. THE SLEEVE SHALL BE 2" LARGER DIAMETER THAN THE HDPE PIPE RUN THROUGH THE SLEEVE.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

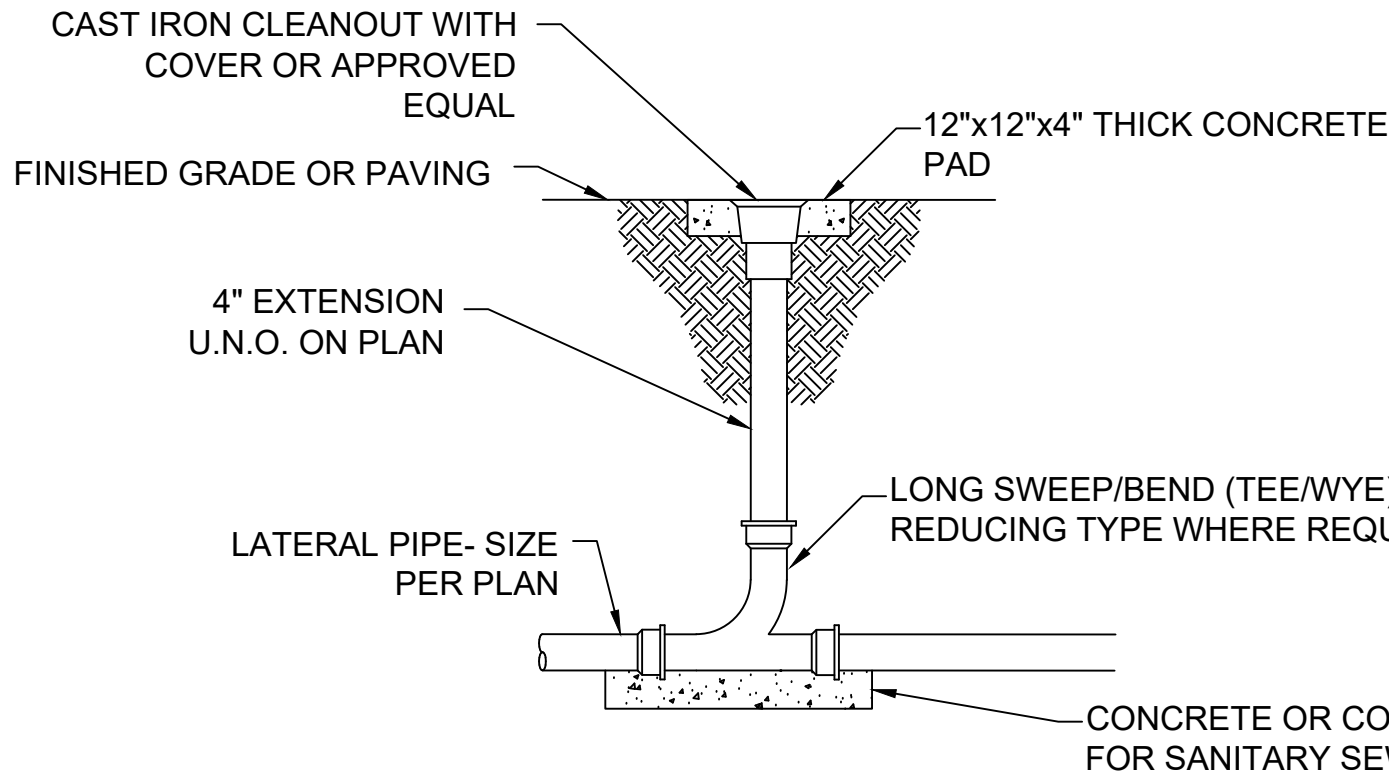
PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

\* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

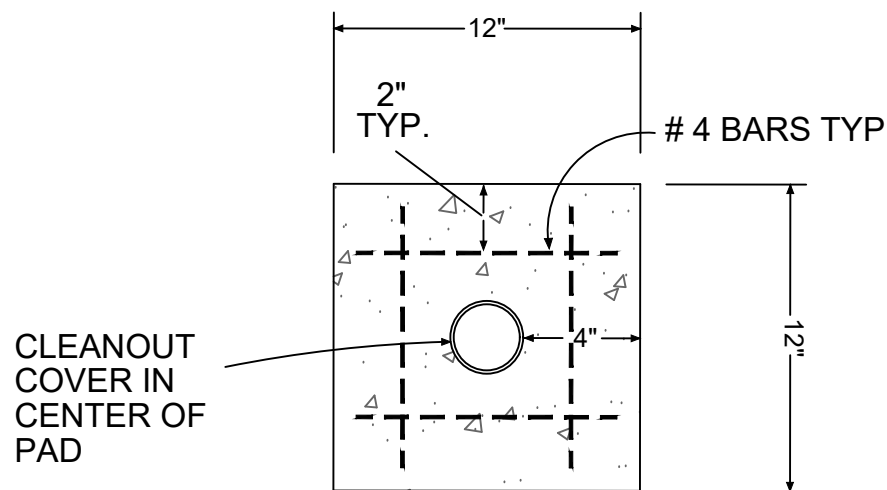
MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

\*\* COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.  
\*\*\* E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.



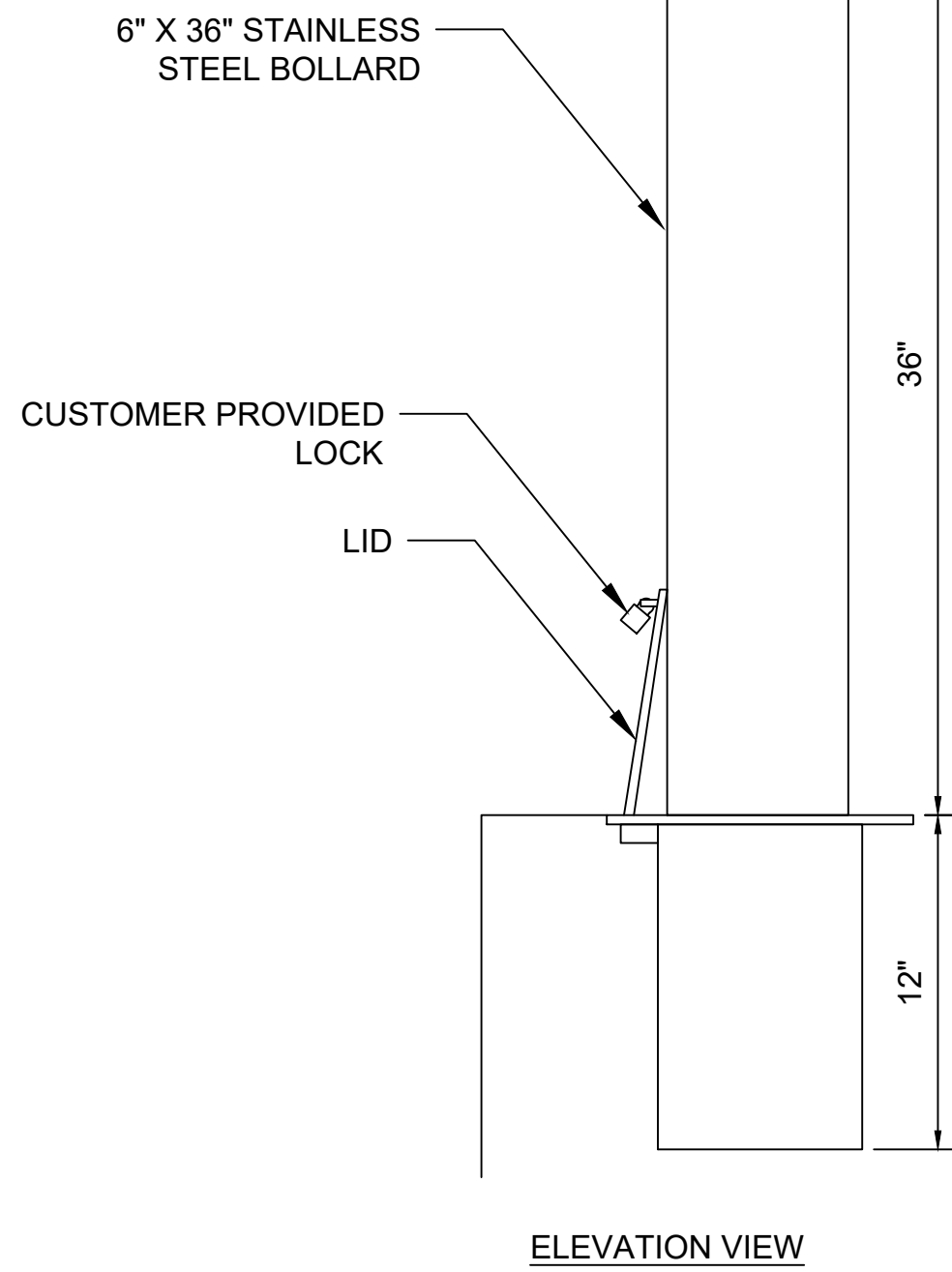
STORMWATER CLEANOUT - TYPICAL



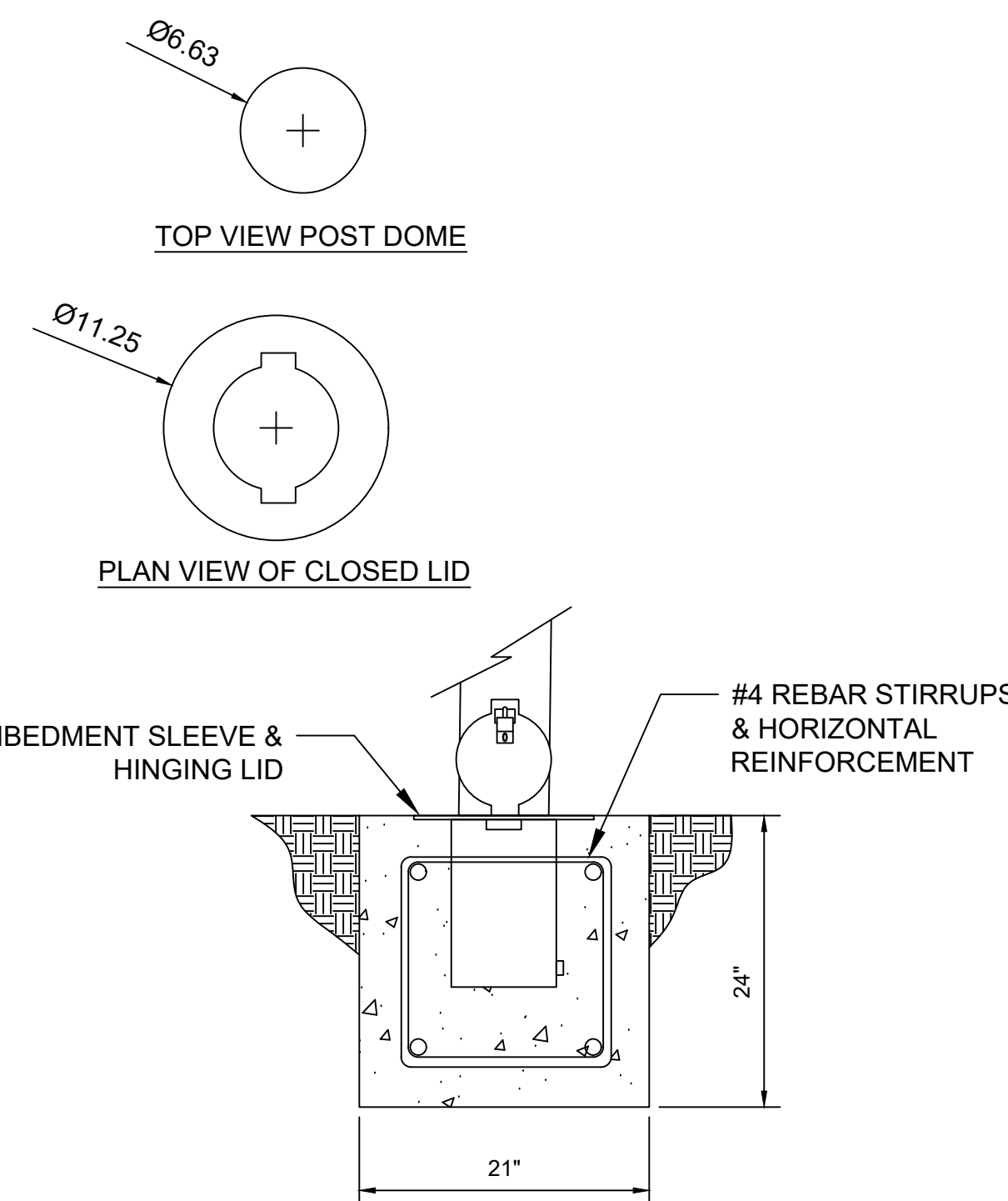
TOP VIEW-CONCRETE PAD - MINIMUM DIMENSIONS

NOTES:

1. SEE PLAN FOR LATERAL PIPE SIZE.
2. USE SCH. 80 PVC.
3. LATERAL SHALL BE PVC PIPE.
4. USE TEE/WYES FOR PVC PIPE.
5. IF DEPTH IS GREATER THAN 12', ENTIRE PIPE LATERAL SHALL BE DUCTILE IRON PIPE.
6. FOR SANITARY SEWER, LATERALS MUST HAVE 3' MIN. COVER.
7. FOUNDATION STONE REQUIRED WHEN SOIL CONDITIONS ARE UNSTABLE.
8. TRENCH CLEAR DISTANCE NOT LESS THAN 6" OR MORE THAN 12" EACH SIDE.
9. INITIAL BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED. INITIAL BACKFILL SHALL CONTAIN NO MATERIAL OVER 1-1/2" IN DIAMETER, FROZEN LUMPS, OR DEBRIS.
10. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.



ELEVATION VIEW



END VIEW - FOUNDATION

NOTES:

1. BOLLARDS TO BE POST GUARD 6" REMOVABLE UNLESS OTHERWISE APPROVED BY COR.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. REMOVEABLE POST BARRICADE SHALL NOT BE CONCRETE FILLED.



POST GUARD  
37525 INTERCHANGE DR.  
FARMINGTON HILLS, MI 48335  
TOLL FREE: 1-866-737-8900  
PHONE: (248) 354-4090  
FAX: (248) 354-4095

www.postguard.com

1 HDPE PIPE INSTALLATION (TYPICAL)

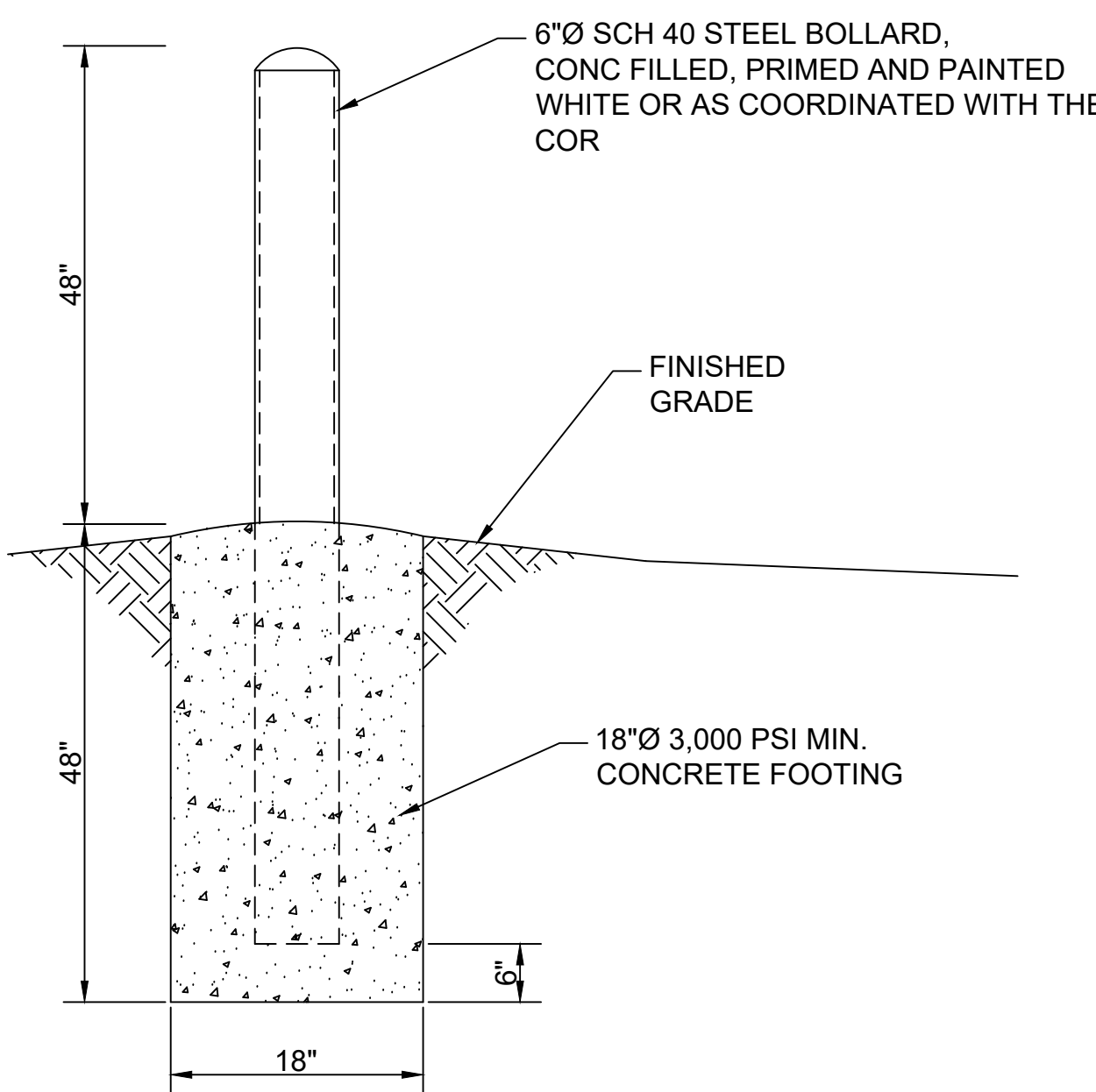
Scale: NTS

2 STORM LATERAL AND CLEANOUT (TYPICAL)

Scale: NTS

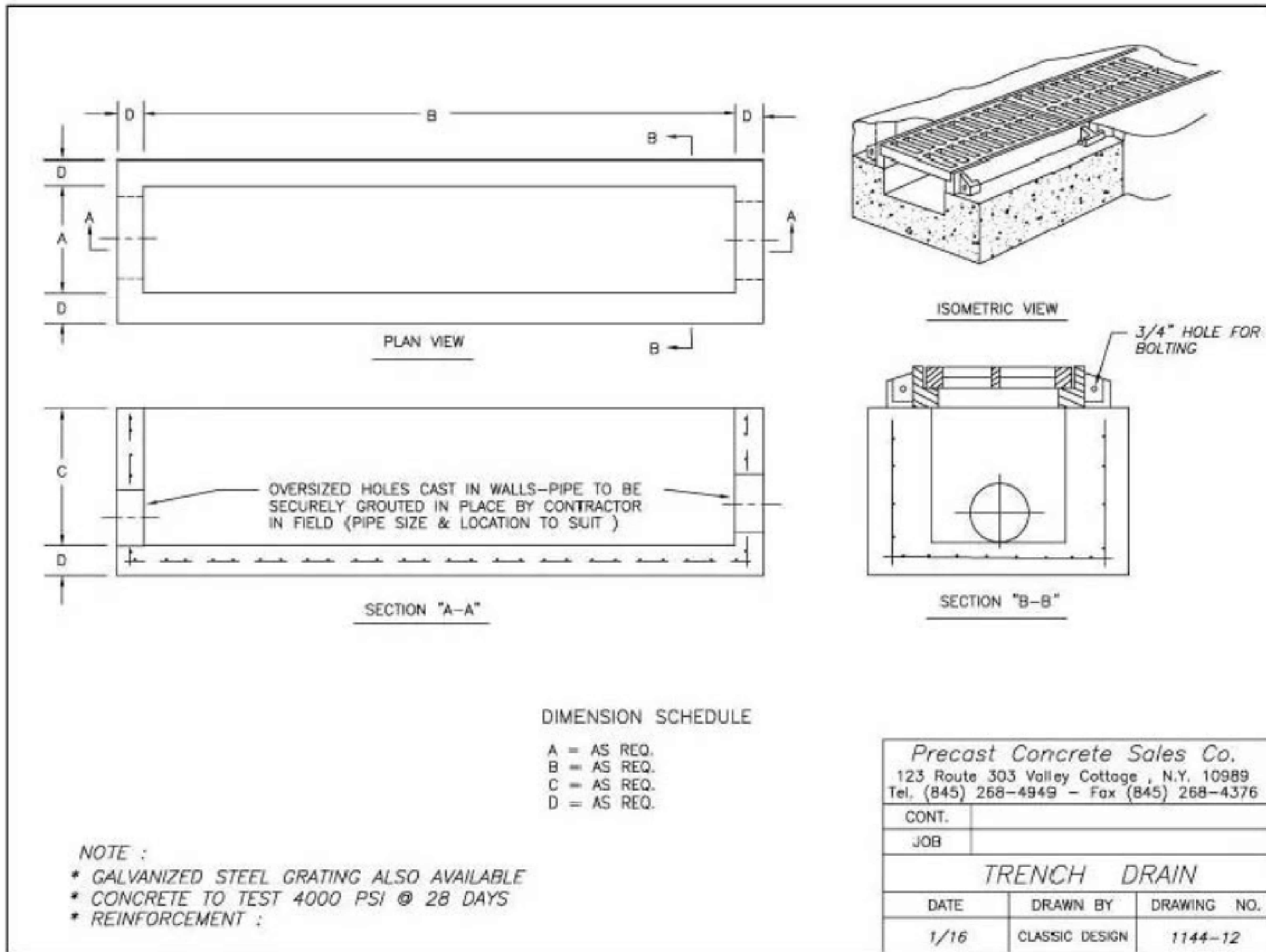
3 6" STEEL REMOVEABLE BOLLARD (TYPICAL)

Scale: NTS



NOTES:

1. ANCHOR BOLT AND CHAIN TO TIE TO EXISTING BOLLARDS, MATCH EXISTING



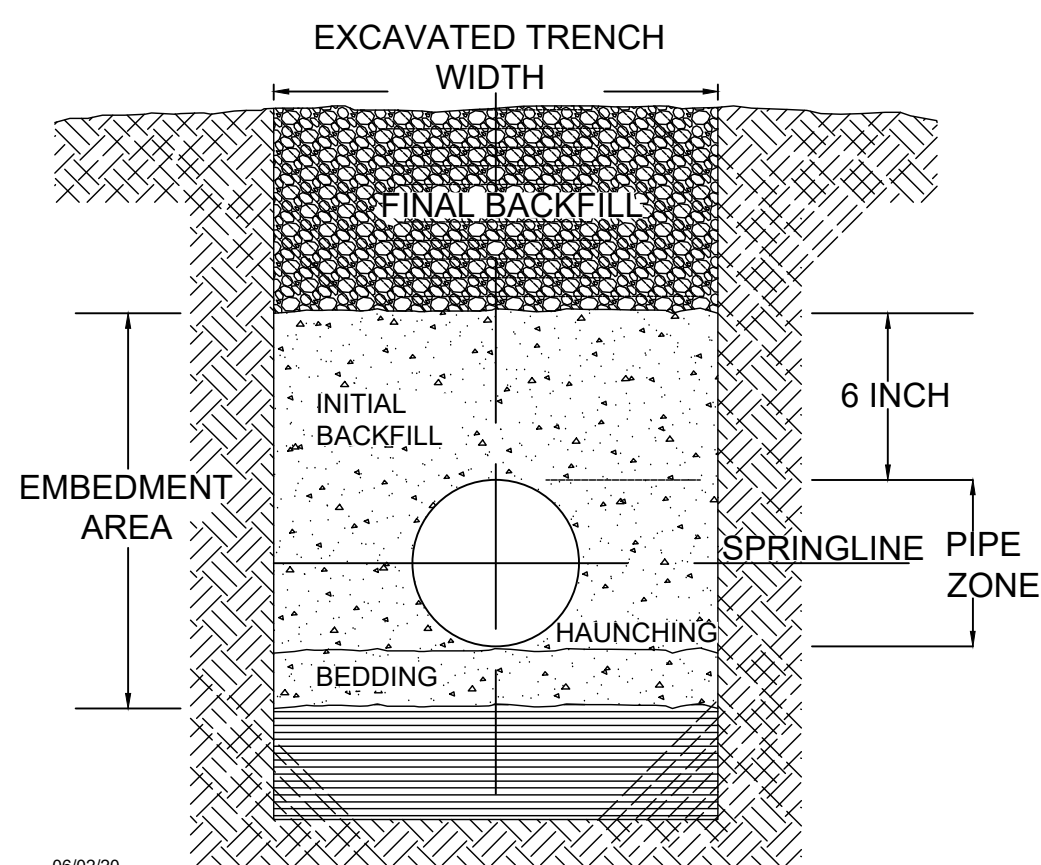
DIMENSION SCHEDULE

- A = AS REQ.  
B = AS REQ.  
C = AS REQ.  
D = AS REQ.

NOTE :

- \* GALVANIZED STEEL GRATING ALSO AVAILABLE
- \* CONCRETE TO TEST 4000 PSI @ 28 DAYS
- \* REINFORCEMENT :

Precast Concrete Sales Co. 123 Route 303 Valley Cottage - N.Y. 10989 Tel. (845) 268-4849 - Fax (845) 268-4376		
CONT.		
JOB		
TRENCH DRAIN		
DATE	DRAWN BY	DRAWING NO.
1/16	CLASSIC DESIGN	1144-12



NOTE

1. THIS INFORMATION PROVIDES GENERAL GUIDELINES. USE AS A REFERENCE AND NOT AS A GUARANTEE OF PERFORMANCE. SPECIFIC INSTALLATION INSTRUCTIONS AND TECHNIQUES MAY BE REQUIRED AS A RESULT OF LOCAL PLUMBING AND BUILDING CODES, ENGINEERING SPECIFICATIONS AND INSTRUCTION.

UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHALL ALWAYS BE BURIED IN STRICT ACCORDANCE WITH ASTM STANDARD.  
ASTM D2321 - STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS

IN ADDITION TO ASTM, PIPE SHALL ALWAYS BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. MINIMUM WIDTH OF THE TRENCH IS THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES, OR PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING, AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT BACKFILL.
2. PROVIDE A MIN. OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS OF TRENCH.
3. THE PIPE SHALL BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH IS EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILL SHALL BE PLACED IN 6 INCH LIFTS, AND COMPACTED TO 95%.
4. MECHANICAL TAMPERS OR HAND TAMPING OF EACH LIFT TO SPECIFIED COMPACTION.
5. TRENCH SHALL BE COMPLETELY FILLED. BACKFILL PLACED IN UNIFORM LAYERS. STONES AND DEBRIS IN BACKFILL SHOULD BE REMOVED. HEAVY TAMPERS SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PROTECT PIPE FROM DAMAGE OR DISTURBANCE, INSTALL PIPE BELOW FROST LEVEL.. MAINTAIN A MIN. DEPTH OF BACKFILL ABOVE THE PIPE.

4 6" STEEL BOLLARD (TYPICAL)

Scale: NTS

5 MECHANIAL YARD TRENCH DRAIN INLET AND GRATE (TYPICAL)

Scale: NTS

6 PVC PIPE INSTALLATION (TYPICAL)

Scale: NTS

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Revisions:	Date:

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STAMP



Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans Affairs

Drawing Title

CIVIL DETAILS 6

-

-

Approved: Project Director

Phase

100% CONSTRUCTION  
DOCUMENTS

Project Title

PROJECT # 679-20-104  
EHRM INFRASTRUCTURE UPGRADES

Project Number

679-20-104

Building Number

Location

TUSCALOOSA VAMC, TUSCALOOSA, AL

Issue Date

3/08/2024

Checked

HJM

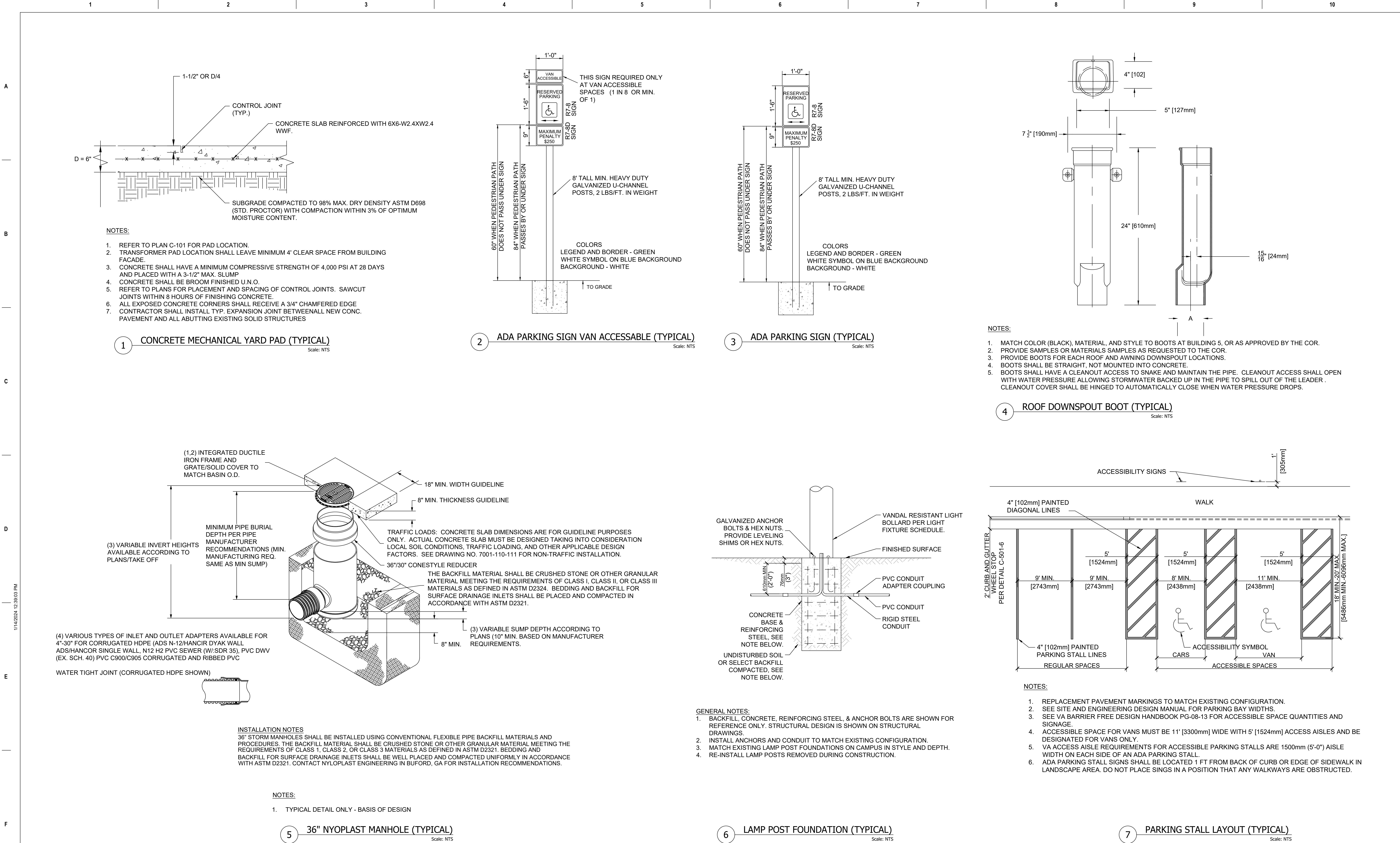
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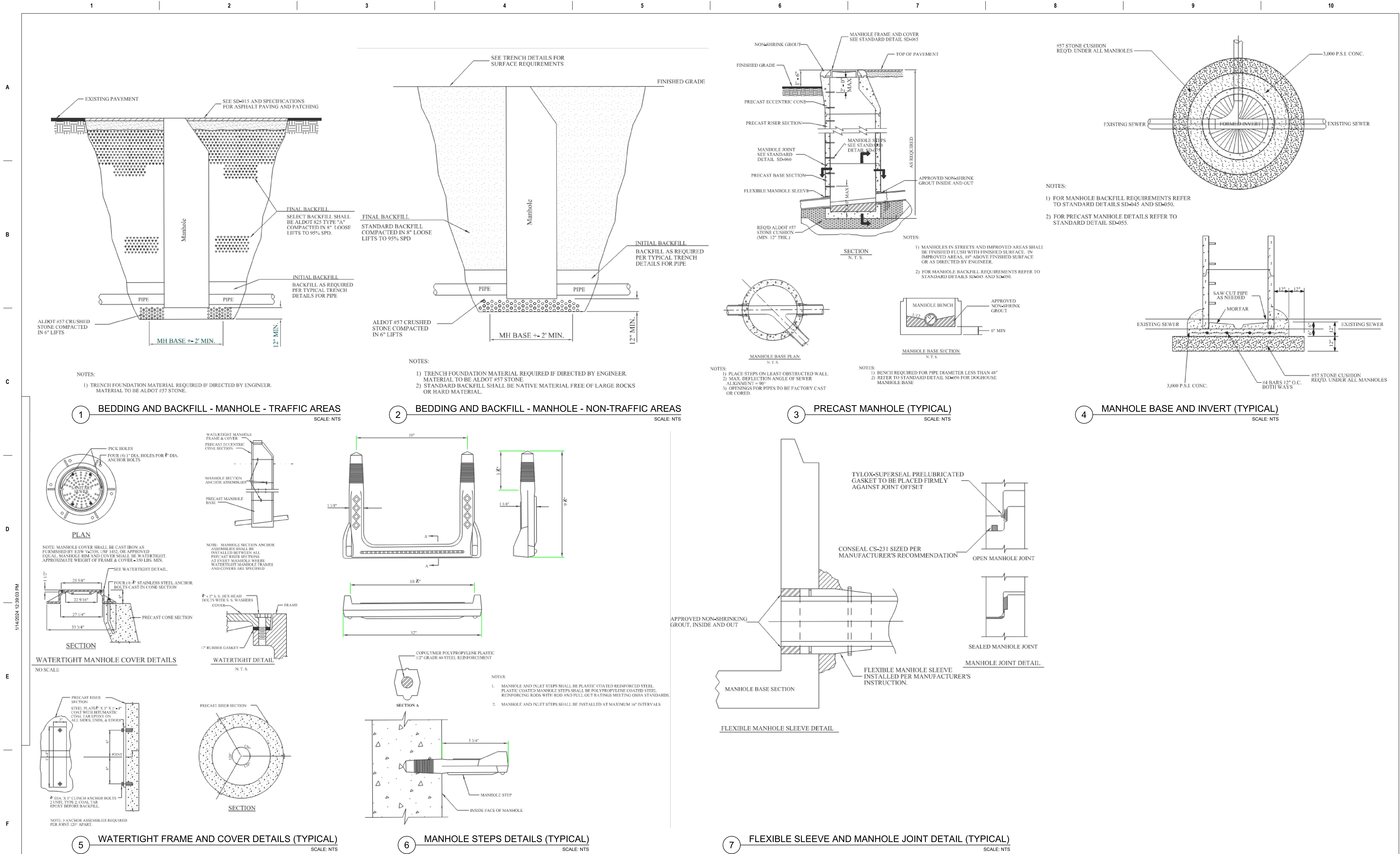
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Revisions:		Date:		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
-		-		Wiley Wilson		Atriax		Professional Engineer		VA		CIVIL DETAILS 7		100% CONSTRUCTION DOCUMENTS		PROJECT # 679-20-104		679-20-104	
-		-		Specialized Engineering Solutions		Atriax Group		Seal		U.S. Department of Veterans Affairs		Approved: Project Director				EHRM INFRASTRUCTURE UPGRADES		Building Number	
-		-		127 Nationwide Drive		www.atriaxgroup.com		03/08/2024								Location		Drawing Number	
-		-		Lynchburg, VA 24502		NC Engineering License No.: P-0214										TUSCALOOSA VAMC, TUSCALOOSA, AL		C-507	
-		-		Phone: 434.947.1901		NC Architectural License No.: 51254										Issue Date		Checked	
-		-		www.wileywilson.com												3/08/2024		HJM	
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Revisions:		Date:		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
-		-		Wiley Wilson		Atriax		VA		U.S. Department of Veterans Affairs		CIVIL DETAILS 8		100% CONSTRUCTION DOCUMENTS		PROJECT # 679-20-104		679-20-104	
-		-		127 Nationwide Drive		Specialized Engineering Solutions		03/08/2024				Approved: Project Director				EHRM INFRASTRUCTURE UPGRADES		Building Number	
-		-		Lynchburg, VA 24502		1300 Baxter Street, Suite 230										Location		Drawing Number	
-		-		Phone: 434.947.1901		Charlotte, NC 28204										TUSCALOOSA VAMC, TUSCALOOSA, AL		C-508	
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