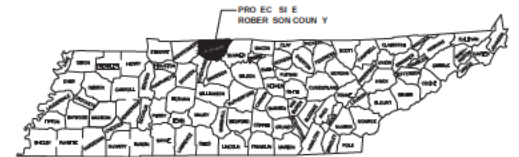


SOUTHERN FORCE MAIN FROM HESTER DR. STATION TO SAGE RD. DEVELOPMENT FOR THE CITY OF WHITE HOUSE WHITE HOUSE, TENNESSEE (ROBERTSON COUNTY) JANUARY 2022



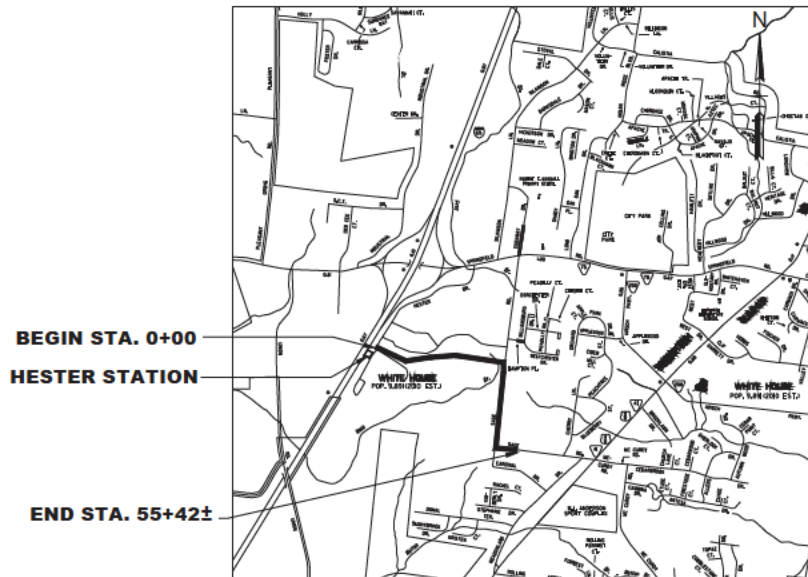
CONTRACTOR'S NOTES:

THE CONTRACTORS WORK TO BE PERFORMED UNDER THIS PROJECT WILL CONSIST OF FURNISHING ALL EQUIPMENT, LABOR, TOOLS AND SUPERVISION NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED WORK AND ALL OTHER RELATED WORK AS LISTED IN THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, UTILITY LOCATIONS, ELEVATIONS, EXISTING INVERTS PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR REPRESENTATIVE IMMEDIATELY.

ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND LAWS. ALL NECESSARY LICENSES AND PERMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

UTILITY OWNERS	
WATER SERVICE	
WHITE HOUSE UTILITY DISTRICT P.O. BOX 608 WHITE HOUSE, TN 37188 615-672-1033	
SANITARY SEWER SERVICE	
CITY WHITE HOUSE 725 INDUSTRIAL DRIVE WHITE HOUSE, TN 37188 615-672-3654	
NATURAL GAS UTILITY SERVICE	
PIEDMONT GAS COMPANY 83 CENTURY BLVD. NASHVILLE, TN 37214 615-734-1760	
ELECTRIC SERVICE	
CUMBERLAND ELECTRIC MEMBERSHIP CORPORATION P.O. BOX 3300 OR 1940 MADISON STREET CLARKSVILLE, TN 37043 931-645-2481	
CABLE/TELEPHONE SERVICE	
COMCAST 660 MAIN STREAM DRIVE NASHVILLE, TN 37228 615-244-7462	
AT&T KIM BEAN 115 S CANNON AVE. MURFREESBORO, TN 37129 615-609-9336	



LOCATION MAP

INDEX OF DRAWINGS

SHEET	DESCRIPTION
G-001	TITLE SHEET
G-002	GENERAL NOTES
C-101	LINE "FM-2" STA. 0+00 TO STA. 15+00
C-102	LINE "FM-2" STA. 15+00 TO STA. 30+00
C-103	LINE "FM-2" STA. 30+00 TO STA. 45+00
C-104	LINE "FM-2" STA. 45+00 TO E.O.L.
C-501	DETAILS
C-601	EPSC PLAN
C-602	EPSC PLAN
C-603	EPSC NOTES AND DETAILS

APPROVED BY
CITY OF WHITE HOUSE
WASTEWATER DEPARTMENT
725 INDUSTRIAL DRIVE
WHITE HOUSE, TN 37188

Andy Cribb
SIGNATURE OF OFFICIAL

WPN 22.0181
Southern Force Main Hester Drive to Sage Road

APPROVED FOR CONSTRUCTION

HE IS/AM I/WE ARE THE ENGINEER/ARCHITECT/CONSULTANT FOR THE CITY OF WHITE HOUSE, TENNESSEE

DIVISION OF WATER RESOURCES

May 24 2022

APPROVAL EXPIRES ONE YEAR FROM ABOVE DATE



1. HE HEDON HAD ONSH OWER | OON AC U I I
OON ANES DEAR OAN OON BEAC ON BE OCA ONO
U I I BE BOWHON BE ANSARA BOWH ENO
OON BOWH O E BE BE OON I CA ON O BE
OCA ONO A UNDEROONU I I BE BOWH O

LEGEND - EXISTING

TELEPHONE, ELECTRIC OR CABLE PEDESTAL	
8 IN	
LIGHT POLE	
UTILITY POLE	
GUY WIRE AND ANCHOR	
SEWER MANHOLE	
SEWER CLEAN OUT	
CURB INLET	
CATCH BASIN	
WATER METER	
FIRE HYDRANT	
WATER VALVE	
GAS METER	
GAS VALVE	
ELECTRIC JUNCTION BOX	
BENCH MARK	
IRON ROD SET	
IRON ROD FOUND	
CONCRETE MONUMENT	
FINISHED FLOOR ELEVATION	
MALIBOX	
CULVERT	
FENCE	
QUADRANT	
WATER LINE	
SEWER	
FORCE MAIN	
GAS LINE	
UNDERGROUND ELECTRIC	
OVERHEAD ELECTRIC	
UNDERGROUND FIBER OPTIC CABLE	
UNDERGROUND TELEPHONE CABLE	
STREAM LINE	
DITCH LINE	
TREE	
WOODS LINE	
SHRUBS OR BUSHES	
CONTOUR LINE	
PROPERTY LINE	
RIGHT-OF-WAY	

LEGEND - PROPOSED

FORCE MAIN	
GATE VALVE	
AIR / VACUUM RELEASE VALVE	

GENERAL NOTES:

- FINISH GRADE TOLERANCES SHALL BE AS NOTED IN THE DETAILED SPECIFICATIONS. THE ENGINEER MAY MAKE GRADE CHANGES AS REQUIRED IN THE FIELD WITHOUT EFFECTING THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION.
- UNLESS OTHERWISE STATED, ALL FILL AREAS SHALL BE CONSTRUCTED IN LAYERS OF 8" LIFTS, WITH WATER ADDED OR SOIL CONDITIONED TO THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ENGINEER OR CITY REPRESENTATIVE AND COMPACTED WITH A SHEEP FOOT ROLLER TO COMPACTION EQUAL TO OR GREATER THAN 95% (100% IN THE TOP 2 FT. OF THE SUB-GRADE BELOW ROADWAYS, ASPHALT AND CONCRETE DRIVEWAYS OR PARKING AREAS) OF THE DENSITY OBTAINED BY COMPACTING A SAMPLE OF MATERIAL IN ACCORDANCE WITH THE STANDARD PROCTOR METHOD OF MOISTURE-DENSITY RELATIONSHIP TEST, ASTM D998 OR ASTM-99 UNLESS SPECIFIED ELSEWHERE.
- ENTIRE AREA TO BE GRADED SHALL BE CLEARED AND GRUBBED. NO FILL SHALL BE PLACED ON ANY AREA THAT HAS NOT BEEN CLEARED AND GRUBBED.
- ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES ETC. SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY UPON THE ENGINEER/CITY REPRESENTATIVE'S APPROVAL. IF DURING THE LIFE OF THE PROJECT, A STORM CAUSES SOIL EROSION WHICH CHANGES THE FINISH GRADES OR CREATES GULLIES AND WASHED AREAS THESE SHALL BE REPAIRED AT NO EXTRA COST. ALL SILT WASHED OFF THE PROJECT SITE ONTO ADJACENT PROPERTIES SHALL BE REMOVED AS DIRECTED BY THE ENGINEER/CITY REPRESENTATIVE AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO ANY APPROVED EROSION CONTROL PLANS WHETHER INDICATED IN THE CONSTRUCTION PLANS OR UNDER SEPARATE COVER.
- DISPOSABLE MATERIAL
 - CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE, UNLESS SPECIFIED OTHERWISE.
 - SOLID WASTES TO BE REMOVED, SUCH AS SIDEWALKS, CURBS, PAVEMENT, ECT., MAY BE PLACED IN SPECIFIC DISPOSAL AREAS DELINEATED IN THE PLANS OR REMOVED FROM THE SITE AS REQUIRED BY THE SPECIFICATIONS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2 FT. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THE WASTE FROM THE SITE AND PROPERLY DISPOSE OF AT HIS EXPENSE.
 - ABANDONED UTILITIES, SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTINGS, PIPE APPUR TENANCES, UTILITY POLES, ECT., SHALL BE THE PROPERTY OF THE SPECIFIC UTILITY OWNER OR THE COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE, DESTROY, SALVAGE, REUSE, SELL OR STORE FOR HIS OWN USE OF ANY ABANDONED UTILITY, HE MUST PRESENT THE OWNER'S WRITTEN PERMISSION FROM THE UTILITY INVOLVED.
- IN THE EVENT EXCESSIVE GROUNDWATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NECESSARY UNDER DRAINS AND STONE AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE PAID BASED UPON UNITY BIDS, UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL UTILITY SURFACE ACCESSSES.
- THE CONTRACTOR SHALL CONTROL ALL "DUST" BE PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AREA AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE FINISHED SURFACE SHALL BE SMOOTH, FREE OF ALL ROCKS LARGER THAN 3", EQUIPMENT TRACKS, DIRT CLOUDS, BUMPS, RIDGES AND GOUGES PRIOR TO SEEDING. THE SURFACE SHALL BE LOOSENEED TO A DEPTH OF 4" TO ACCEPT SEEDS. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER/CITY REPRESENTATIVE'S APPROVAL OF THE GRADED SURFACE. HAND SEEDING IN CERTAIN AREAS SHALL BE AUTHORIZED ON A CASE BY CASE BASIS BY THE ENGINEER/CITY REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE PROPER AUTHORITIES AT LEAST 24 HOURS PRIOR TO ANY ROAD CLOSURES FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO LOCAL NEWSPAPER, RADIO STATION, FIRE DEPARTMENT, CITY POLICE DEPARTMENT, AMBULANCE AND COUNTY EMERGENCY AGENCY. ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
- THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY AND SHALL BE FIELD VERIFIED PRIOR TO THE CONTRACTOR COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY REQUIRED MODIFICATIONS IMMEDIATELY. THE CONTRACTOR SHALL CONTACT EACH UTILITY OWNER OR TENNESSEE ONE CALL (811) AND HAVE EACH UNDERGROUND UTILITY LOCATED AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- THE NAMES OF PROPERTY OWNERS, PROPERTY LINES, STREET AND ROAD RIGHTS-OF-WAY SHOWN ON THESE PLANS WERE OBTAINED FROM THE ROBERTSON COUNTY GIS MAPS. INFORMATION IS ONLY GENERAL IN NATURE AND IS NOT GUARANTEED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ALL EXISTING DRAINAGE CULVERTS DISTURBED DURING CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE AS SPECIFIED AND DETAILED IN THE CITY OF WHITE HOUSE'S "STANDARD SEWER SYSTEM SPECIFICATIONS" AND "STANDARD SEWER DETAILS" FOUND AT: <http://cityofwhitehouse.com/government/wastewater>

SPECIAL NOTE:
DUE TO CURRENT MARKET CONDITIONS AND MATERIAL AVAILABILITY AN ALTERNATIVE PIPE MATERIAL OF 20" HPDE DR 11 HAS BEEN APPROVED FOR THIS PROJECT.

SEWER CONSTRUCTION NOTES:

- ALL CONSTRUCTION OUTSIDE OF RIGHT-OF-WAY SHALL TAKE PLACE WITHIN THE PERMANENT AND TEMPORARY EASEMENTS SHOWN.
- THE CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN ORIGINAL, OR AS NOTED.
- THE CONTRACTOR SHALL BE STRICTLY AND SOLELY LIABLE FOR ANY FINES LEVIED BY ANY REGULATORY AGENCY DUE TO VIOLATION OF WATER QUALITY IN THE STREAMS CAUSED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL USE ALL NECESSARY TEMPORARY WATER POLLUTION CONTROL MEANS AS SPECIFIED TO PREVENT TRANSPORT OF SEDIMENT INTO THOSE WATERWAYS AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK NEAR AND AROUND WATERWAYS SHALL UNIFORM TO THE RULES OF STATE OF TENNESSEE.
- CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
- SEWER LINES SHALL HAVE A MINIMUM OF 4'-0" OF COVER UNLESS SHOWN OTHERWISE IN THE DRAWINGS.
- WATER AND SEWER LINES SHALL HAVE A MINIMUM OF 10 FT. HORIZONTAL SEPARATION OR A MINIMUM OF 18" VERTICAL SEPARATION WITH THE WATER LINE ABOVE THE SEWER, OR BOTH WATER AND SEWER LINES SHALL BE DUCTILE IRON PIPE FOR 10 FT. EACH SIDE OF THE CROSSING.
- SANITARY AND STORM SEWER LINES SHALL HAVE A MINIMUM OF 18" VERTICAL SEPARATION.
- UNLESS NOTED OTHERWISE, ALL PIPES SHALL BE INSTALLED WITH PUSH-ON JOINTS.
- LEGAL DESCRIPTIONS FOR PROPOSED EASEMENTS BY OTHERS.
- LOCATIONS SHOWN FOR SANITARY SEWER SERVICES ARE ASSUMED. COORDINATE LOCATION OF ALL PROPOSED SEWER SERVICE CONNECTIONS WITH PROPERTY OWNER AND FIELD CONDITIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED MANHOLE TOP ELEVATIONS AND EXISTING MANHOLE INVERTS PRIOR TO CONSTRUCTION AND NOTIFY THE CITY REPRESENTATIVE OF ANY DISCREPANCIES. CONTRACTOR SHALL ADJUST ALL PROPOSED SEWER STRUCTURES TO MATCH FINISHED GRADE ELEVATIONS. COST OF RAISING THE STRUCTURES SHALL BE CONSIDERED INCIDENTAL AND ADDED TO THE COST OF THE MANHOLE.
- MANHOLES AND CASTINGS SHALL MEET THE REQUIREMENTS OF THE CITY AS WELL THE PROJECT SPECIFICATIONS.
- ANY FENCING DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIAL IN A WORKMAN LIKE MANNER AND IN ACCORDANCE TO THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE. THIS DOES NOT INCLUDE ADDITIONAL FENCE CALLED OUT IN THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION AND SHALL REPAIR ROADS PER REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION OR THE CITY OF WHITE HOUSE. SAND OR A SIMILAR MATERIAL APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SHALL BE PLACED AS A PROTECTIVE BARRIER BETWEEN TRACKED EQUIPMENT AND THE ROAD AND CLEANED UP PROPERLY AFTER CONSTRUCTION. A MINIMUM OF 2" OF SAND SHALL BE PLACED ON THE ROAD PRIOR TO STOCKPILING SPOIL MATERIAL ON THE ROAD SURFACE TO FACILITATE CLEANUP.

GENERAL CONSTRUCTION NOTE:

ANY BYPASS PUMPING REQUIRED TO PERFORM THE CONTRACT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. BYPASS PUMPING IS NOT A SEPARATE PAY ITEM & BYPASSING OF RAW SEWAGE WILL NOT BE PERMITTED.

ESTIMATED QUANTITIES			
Item No.	Description	Unit	Estimated Quantity
1	CONCRETE MANHOLE	EA	1
2	CONCRETE CLEAN OUT	EA	1
3	CONCRETE CLEAN OUT	EA	1
4	CONCRETE CLEAN OUT	EA	1
5	CONCRETE CLEAN OUT	EA	1
6	CONCRETE CLEAN OUT	EA	1
7	CONCRETE CLEAN OUT	EA	1
8	CONCRETE CLEAN OUT	EA	1
9	CONCRETE CLEAN OUT	EA	1
10	CONCRETE CLEAN OUT	EA	1
11	CONCRETE CLEAN OUT	EA	1
12	CONCRETE CLEAN OUT	EA	1
13	CONCRETE CLEAN OUT	EA	1
14	CONCRETE CLEAN OUT	EA	1
15	CONCRETE CLEAN OUT	EA	1
16	CONCRETE CLEAN OUT	EA	1
17	CONCRETE CLEAN OUT	EA	1
18	CONCRETE CLEAN OUT	EA	1
19	CONCRETE CLEAN OUT	EA	1
20	CONCRETE CLEAN OUT	EA	1
21	CONCRETE CLEAN OUT	EA	1
22	CONCRETE CLEAN OUT	EA	1

FOOTNOTES

- ALL DIMENSIONAL DETAILS SHOWN ON PLANS, INCLUDING ELEVATIONS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE ACCURACY OF THE LAYOUT PRIOR TO CONSTRUCTION. ANY ERRORS AND APPARENT DISCREPANCIES FOUND IN PREVIOUS SURVEYS OR IN EITHER THE SPECIFICATIONS OR SPECIAL PROVISIONS, SHALL BE CALLED TO THE ENGINEER'S ATTENTION BY THE CONTRACTOR IMMEDIATELY AND PRIOR TO PROCEEDING WITH WORK.
- EXCAVATION AND PIPE BEDDING MATERIAL FOR PIPE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF THE PROPOSED FLOOR ABOVE.
- ITEM INCLUDES ALL MATERIAL AND LABOR, NOT LISTED ABOVE TO CONNECT TO THE EXISTING SYSTEM.
- ITEM INCLUDES ALL MATERIAL AND LABOR TO REPAIR THE PAVEMENT EQUAL TO OR EXCEEDING EXISTING CONDITIONS.
- ITEM INCLUDES ADDITIONAL STONE BACKFILL REQUIRED BETWEEN THE STONE INCLUDED IN THE PIPE INSTALLATION AND THE FINAL SURFACE MATERIAL.
- INCLUDES ALL TEMPORARY TRAFFIC CONTROL EQUIPMENT, SIGNS, AND LABOR THROUGHOUT THE PROJECT.
- INCLUDES MATERIAL, LABOR, INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL, AND SEEDING AND MULCH FOR ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. ALL AREAS DISTURBED OUTSIDE PROJECT WILL BE STABILIZED AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES
SOUTHERN FORCE MAIN
THE CITY OF WHITE HOUSE
WHITE HOUSE, TENNESSEE
ROBERTSON COUNTY

PHILIP L. CASTLE
GOVERNOR
01/21/2022

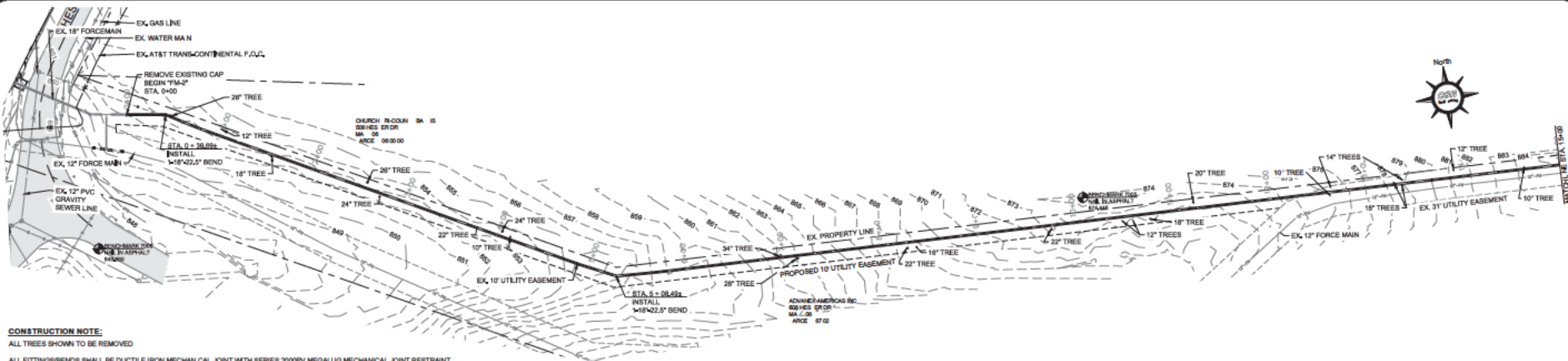
NO.	DATE	BY	DESCRIPTION

DESIGNER: **R.D.**
REVIEWER: **P.L.**

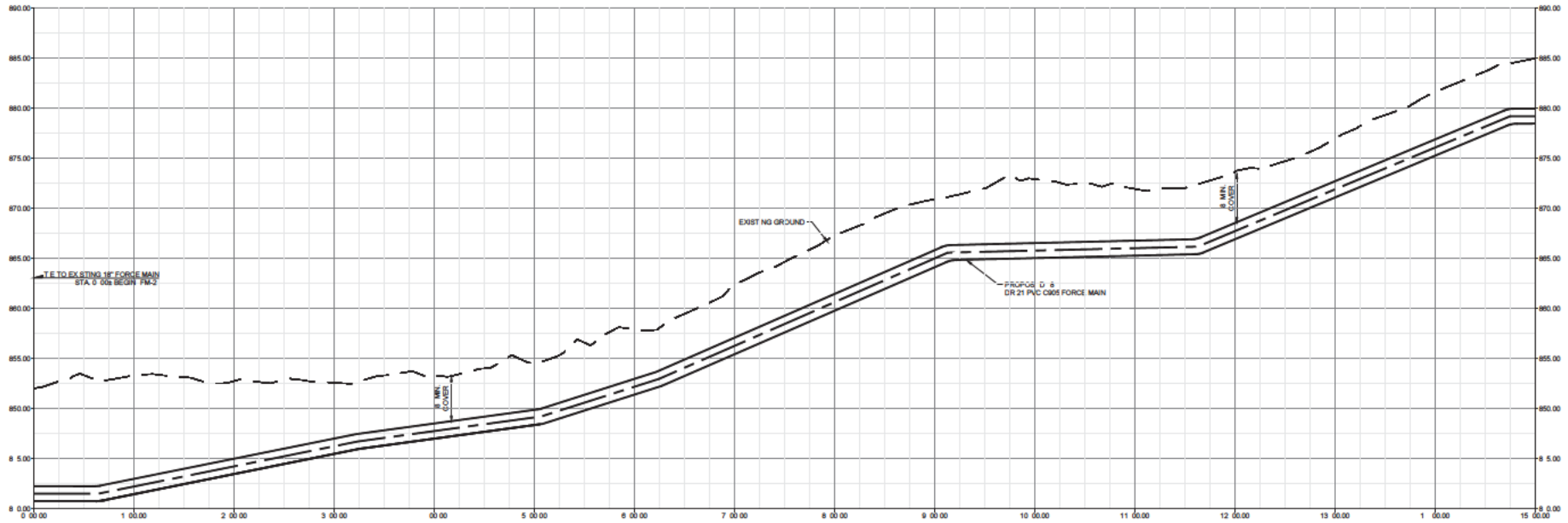
PROJECT: **21-904**

DATE: **01/21/2022**

SHEET: **G-002**



CONSTRUCTION NOTE:
 ALL TREES SHOWN TO BE REMOVED
 ALL FITTINGS/BENDS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH SERIES 2000PV MEGALUG MECHANICAL JOINT RESTRAINT
 ALL BELL ENDS IMMEDIATELY BEFORE AND AFTER EACH FITTING/BEND SHALL HAVE BELL RESTRAINT HARNESS
 EBAA SER ES 1500 (12\"/>



PROFILE VIEW
 1/4\"/>

PURPOSE FOR ISSUE: CONSTRUCTION SCALE: 1\"/>



LINE "EM-2"
 STA. 0+00 TO 15+00
 SOUTHERN FORCE MAIN
 THE CITY OF WHITE HOUSE
 WASHINGTON COUNTY



NO.	DATE	BY	DESCRIPTION

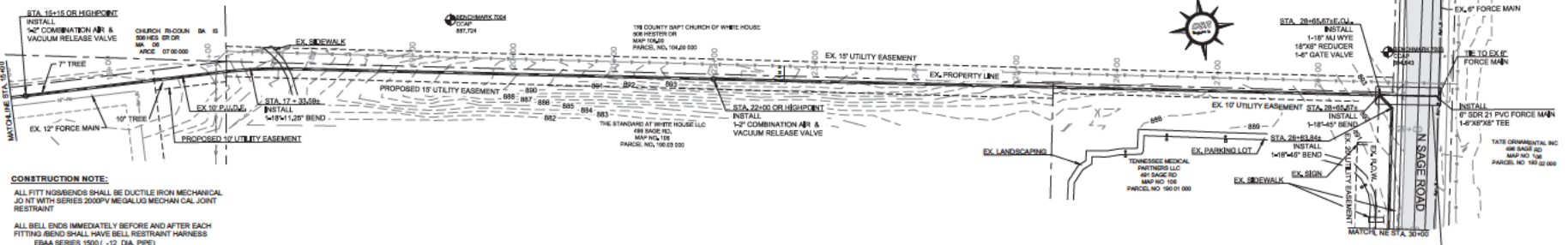
DESIGNER: P.L.C.
 REVIEWER: P.L.C.

PROJECT: 21-904

DATE: 01/21/2022

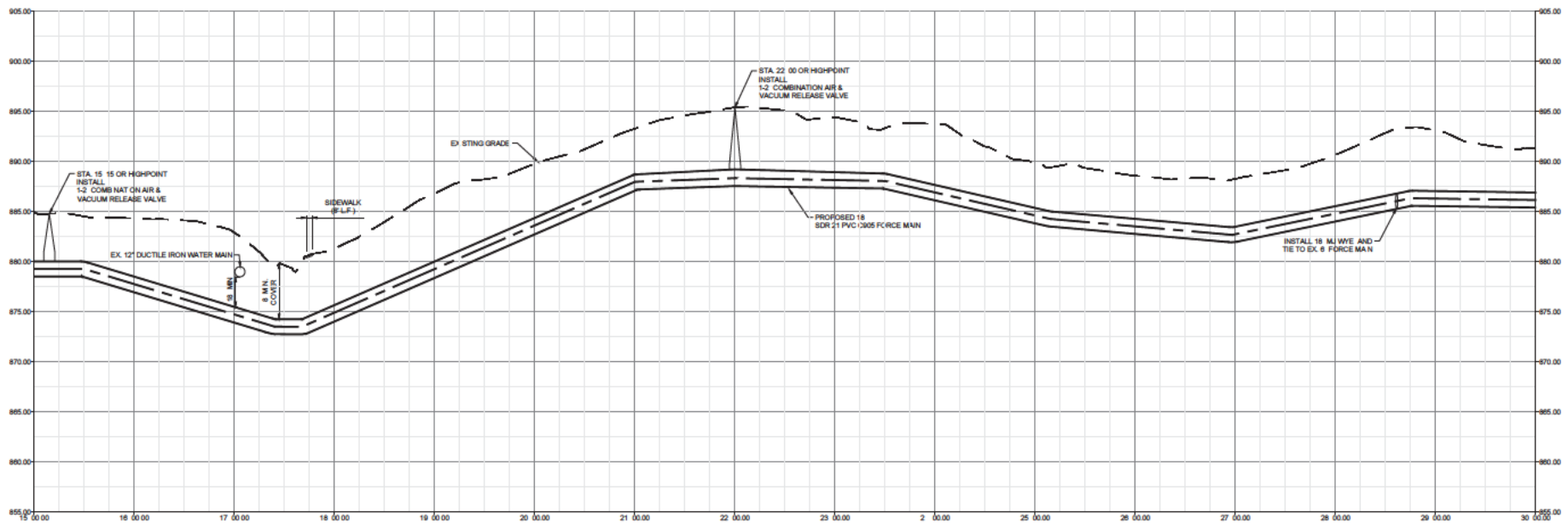
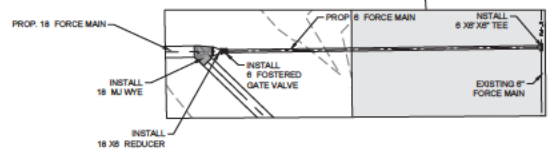
SHEET: C-101





CONSTRUCTION NOTE:

- ALL FITT NGS/BENDS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH SERIES 2000PV MEGALUG MECHANICAL JOINT RESTRAINT
- ALL BELL ENDS IMMEDIATELY BEFORE AND AFTER EACH FITTING BEND SHALL HAVE BELL RESTRAINT HARDNESS (EBA SERIES 1500 (12" DIA. PIPE) EBA SERIES 2800 (18" DIA. PIPE))
- ALL FITT NGS/BENDS SHALL BE COATED WITH PROTECTO 01 OR APPROVED EQUAL
- ALL PIPE JOINTS INSIDE CASINGS SHALL HAVE STAINLESS STEEL JOINT RESTRAINT CASING SPACERS
- ALL VALVE CLUSTERS SHALL BE JOI NED TO FITTINGS WITH PROTECTO 01 COATED FOSTER ADAPTERS
- SEE CITY OF WHITE HOUSE STANDARD DETAILS FOR THRUST BLOCKING
- ALL WORK TO BE PERFORMED NEAR THE ROADWAY RESULT NG IN A NEED FOR TRAFFIC CONTROL SHALL CONFORM TO CURRENT EDITION OF MUTCD



PROFILE VIEW
 "33x2"
 HORIZ. SCALE: 1" = 50'
 VERT. SCALE: 1" = 5'

NOTE: CONTRACTOR TO VERIFY EX. UTILITY DEPTHS & ADJUST DEPTH TO MAINTAIN REQUIRED VERTICAL SEPARATION BETWEEN EX. WATER MAIN AND PROPOSED SAN. SEWER



LINE "FM-2"
 STA. 15+00 TO 30+00
 SOUTHERN FORCE MAIN
 THE CITY OF WHITE HOUSE
 SAGE HILL
 ROBERTSON COUNTY



NO.	DATE	BY	DESCRIPTION

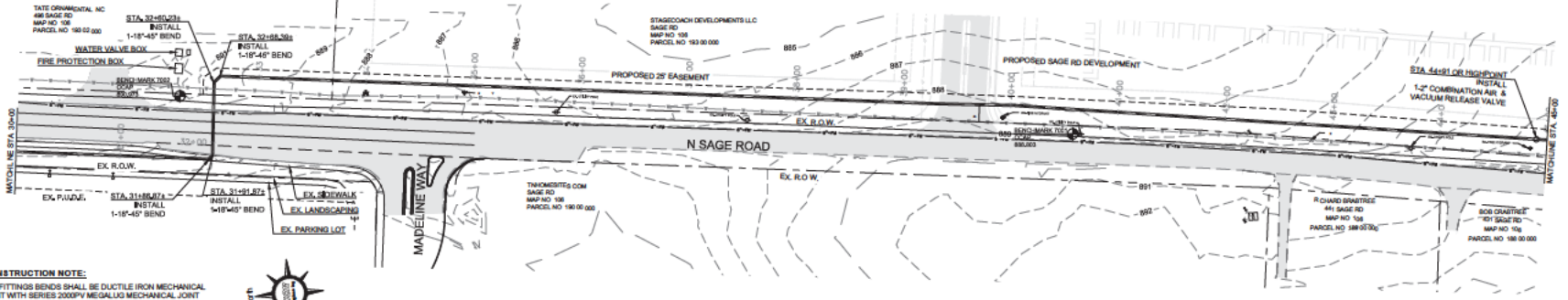
DESIGNER: R.D.
 REVIEWER: P.C.

PROJECT: 21-904

DATE: 01/21/2022

SHEET: C-102





CONSTRUCTION NOTE:

ALL FITTINGS BENDS SHALL BE DUCTILE IRON MECHANICAL JOINT WITH SERIES 2000PI MEGALOX MECHANICAL JOINT RESTRAINT

ALL BELL ENDS IMMEDIATELY BEFORE AND AFTER EACH FITTING/BEND SHALL HAVE BELL RESTRAINT HARNESS (EBA SERIES 1500 (1-12" DIA. PIPE) EBA SERIES 2800 (1-5" DIA. PIPE))

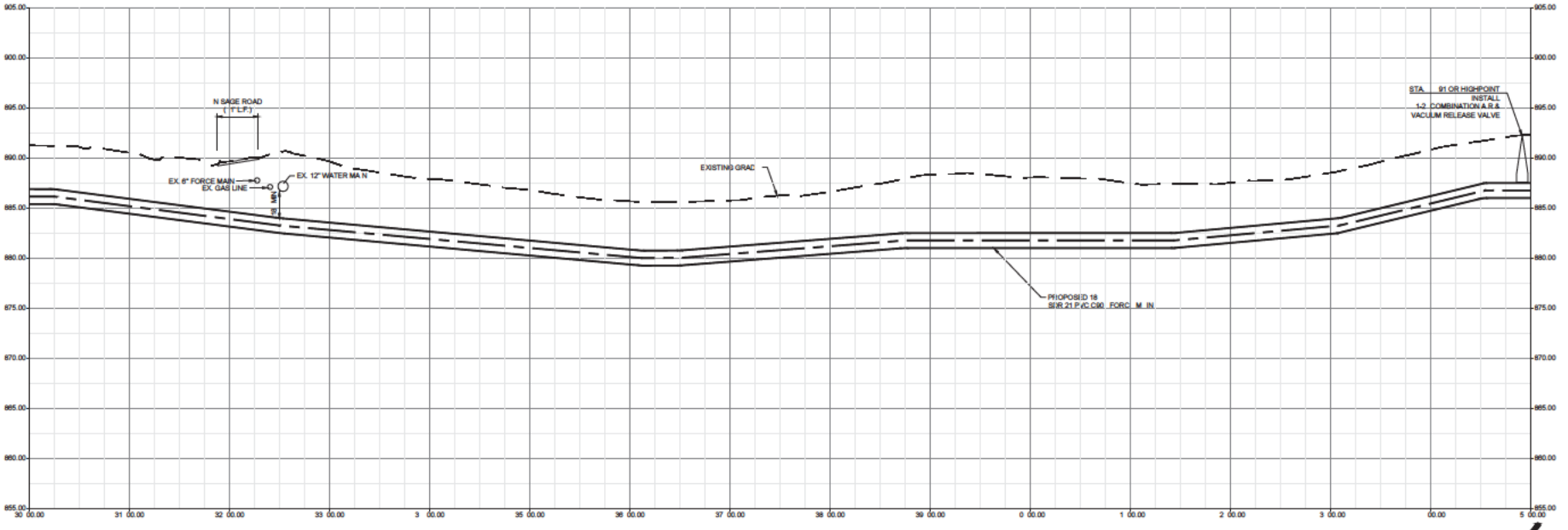
ALL FITTINGS/ BENDS SHALL BE COATED WITH PROTECTO 01 OR APPROVED EQUAL

ALL VALVE CLUSTERS SHALL BE JOINED TO FITTINGS WITH PROTECTO 01 COATED POSTER ADAPTERS

SEE CITY OF WHITE HOUSE STANDARD DETAILS FOR THRUST BLOCKING

ALL WORK TO BE PERFORMED NEAR THE ROADWAY RESULTING IN A NEED FOR TRAFFIC CONTROL SHALL CONFORM TO CURRENT EDITION OF MUTCD


ALL LINE WORK ON STAGEDCOACH DEVELOPMENTS LLC PROPERTY DEPICTS FUTURE DEVELOPMENT



PROFILE VIEW
 "FM-2"
 HORIZ. SCALE 1" = 50'
 VERT. SCALE 1" = 5'


NOTE: CONTRACTOR TO VERIFY EX. UTILITY DEPTHS & ADJUST DEPTH TO MAINTAIN REQD. VERTICAL SEPARATION BETWEEN EX. WATER MAIN AND PROPOSED SAN SEWER





**LINE "FM-2"
 STA. 30+00 TO 45+00
 SOUTHERN FORCE MAIN
 THE CITY OF WHITE HOUSE**

SAGE RD.
 MADISON COUNTY



NO.	DATE	BY	DESCRIPTION

DESIGNER: **R.D.**
 REVIEWER: **P.C.**

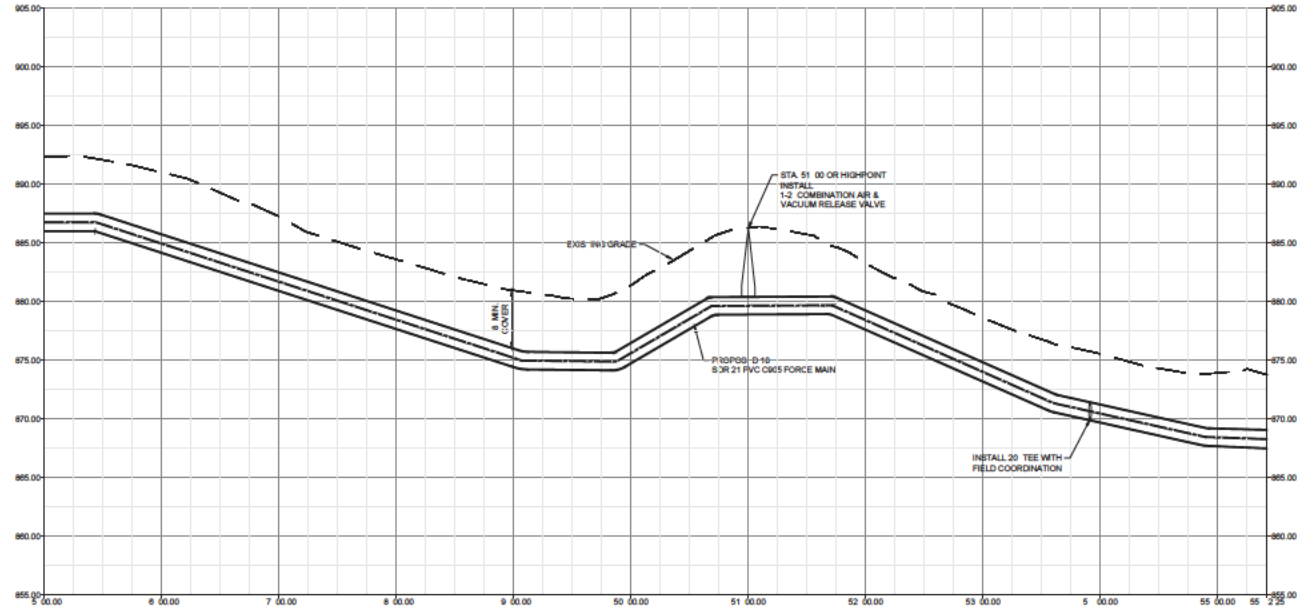
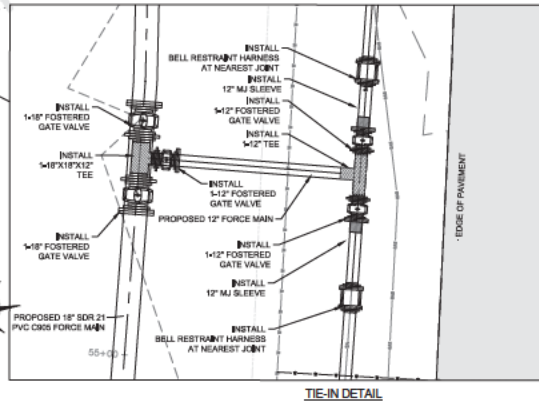
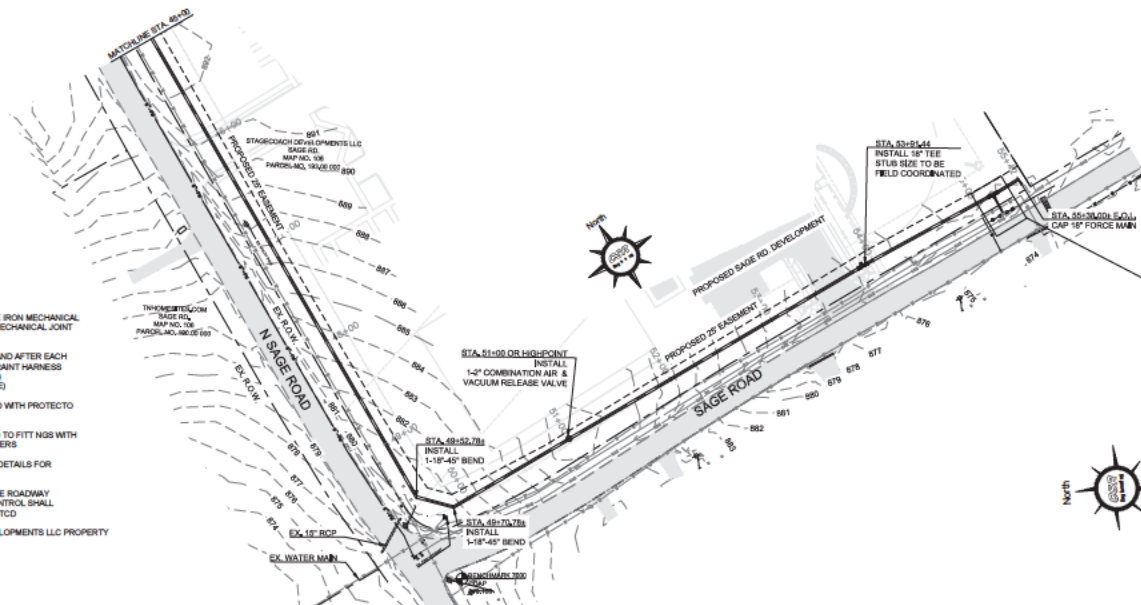
PROJECT: **21-904**

DATE: **01/21/2022**

SHEET: **C-103**



CONSTRUCTION NOTE:
 ALL FITTINGS/BENDS SHALL BE DUCT LE IRON MECHANICAL JOINT WITH SER ES 2003PV MEGALUG MECHANICAL JOINT RESTRAINT
 ALL BELL ENDS IMMEDIATELY BEFORE AND AFTER EACH FITTING/BEND SHALL HAVE BELL RESTRAINT HARNESS (EBA SERIES 1500 (-12 DA PIPE) (EBA SERIES 2001 (-5 DA PIPE)
 ALL FITTINGS/ BENDS SHALL BE COATED WITH PROTECTO 01 OR APPROVED EQUAL
 ALL VALVE CLUSTERS SHALL BE JOINED TO FITTINGS WITH PROTECTO 01 COATED FOSTER ADAPTERS
 SEE CITY OF WHITE HOUSE STANDARD DETAILS FOR THRUST BLOCK NG
 ALL WORK TO BE PERFORMED NEAR THE ROADWAY RESULTING IN A NEED FOR TRAFFIC CONTROL SHALL CONFORM TO CURRENT EDITION OF MUTCD
 ALL LINE WORK ON STAGECOACH DEVELOPMENTS LLC PROPERTY DEPECTS FUTURE DEVELOPMENT

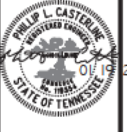


PROFILE VIEW
 STA 2"
 HORIZ. SCALE 1" = 50'
 VERT. SCALE 1" = 5'

PURPOSE FOR ISSUE: CONSTRUCTION SCALE: 1"=50'



LINE "FM-2"
 STA. 45+00 TO E.O.L.
 SOUTHERN FORCE MAIN
 THE CITY OF WHITE HOUSE
 WASHINGTON COUNTY



NO.	DATE	BY	DESCRIPTION

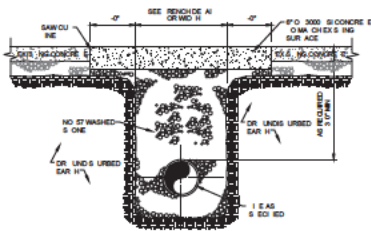
DESIGNER: R.D.
 REVIEWER: P.L.C.

PROJECT: 21-904

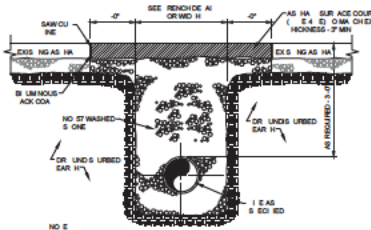
DATE: 01/21/2022

SHEET: C-104

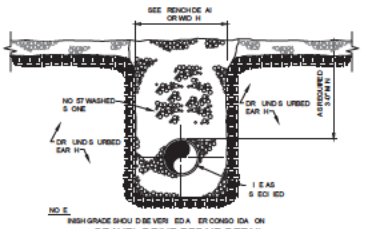




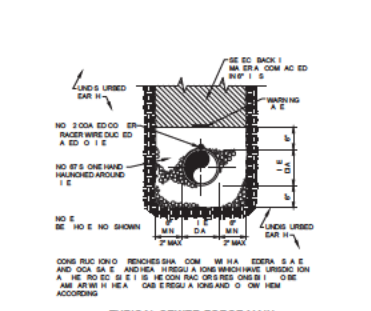
CONCRETE DRIVE REPAIR DETAIL
NO. 050A-E



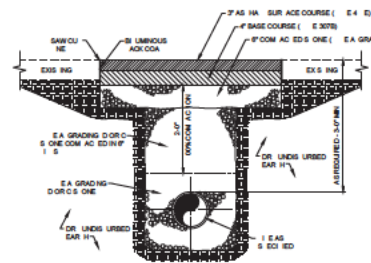
ASPHALT DRIVE REPAIR DETAIL
NO. 050A-E



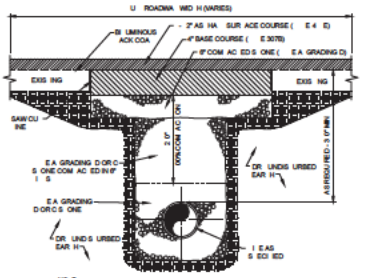
GRAVEL DRIVE REPAIR DETAIL
NO. 050A-E



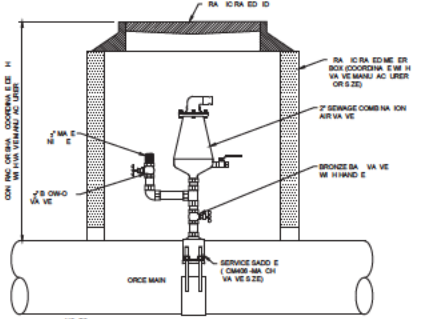
TYPICAL SEWER FORCE MAIN TRENCHING DETAIL
NO. 050A-E



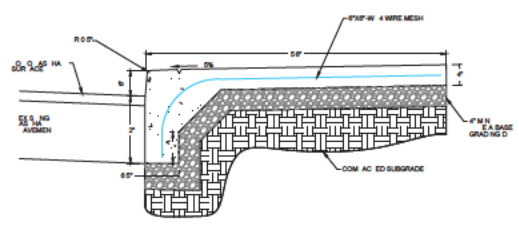
TYPICAL PAVEMENT REPAIRS - PATCH
NO. 050A-E



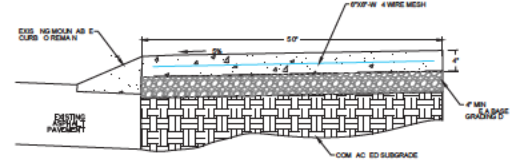
TYPICAL PAVEMENT REPAIRS - OVERLAY
NO. 050A-E



SEWAGE FORCE MAIN COMBINATION AIR VALVE
NO. 050A-E



SIDEWALK AND CURB DETAIL
NO. 5



SIDEWALK AND MOUNTABLE CURB DETAIL
NO. 5



DETAILS
SOUTHERN FORCE MAIN
THE CITY OF WHITE HOUSE
BASE IN. 10.00
REVISIONS COUNTY
WASHINGTON COUNTY



NO.	DATE	BY	DESCRIPTION

DESIGNER **RLB**

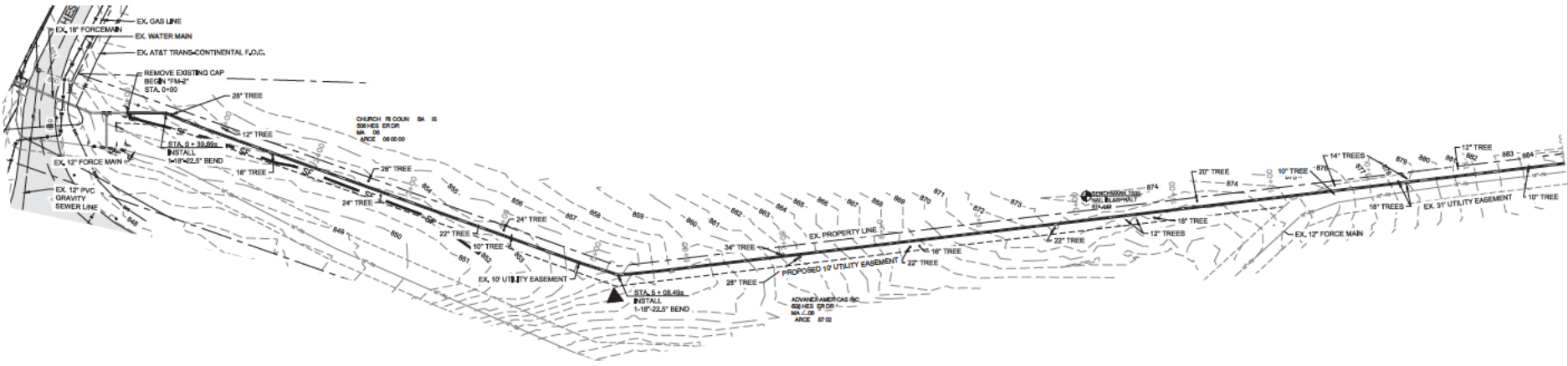
REVIEWER **RLB**

PROJECT **21-904**

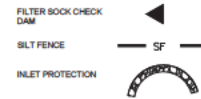
DATE **01/21/2022**

SHEET **C-501**

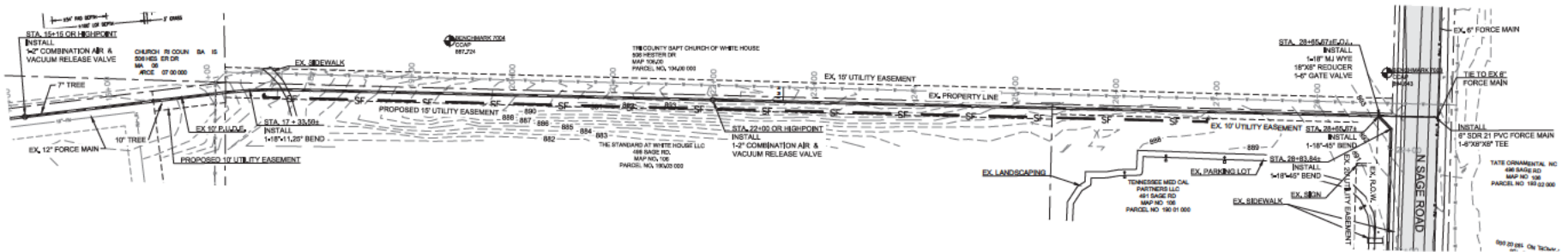




EPSC LEGEND



NOTE: ALL EPSC MEASURES ARE TEMPORARY UNLESS STATED PERMANENT.
 ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND STRAW UNLESS ON SLOPES 3:1 OR STEEPER, THEN EROSION CONTROL BLANKET SHALL BE INSTALLED AND PROPERLY STAKED.
 CHECK DAMS SHALL BE INSTALLED IN THE VICINITY AND DOWN STREAM OF ACTIVE OR RECENTLY ACTIVE EXCAVATION TO PREVENT SEDIMENT TRANSPORT. SPACING SHALL BE DETERMINED BY THE SLOPE OF THE SUBJECT DITCH LINE AS SHOWN IN THE DETAIL ON SHEET C-603.
 STOCKPILE ANY EXCAVATED MATERIAL AWAY FROM ROADSIDE DITCH.



NOTE: PROTECT ANY TREES THAT REMAIN IN PLACE.

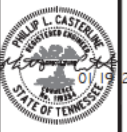
PURPOSE FOR ISSUE: CONSTRUCTION



SCALE: 1"=50'



EPSC PLAN
 STA. 0+00 TO 30+00
 SOUTHERN FORCE MAIN
 THE CITY OF WHITE HOUSE
 WHITE HOUSE, TENNESSEE
 ROBERTSON COUNTY



NO.	DATE	BY	DESCRIPTION

DESIGNER: **RLB**

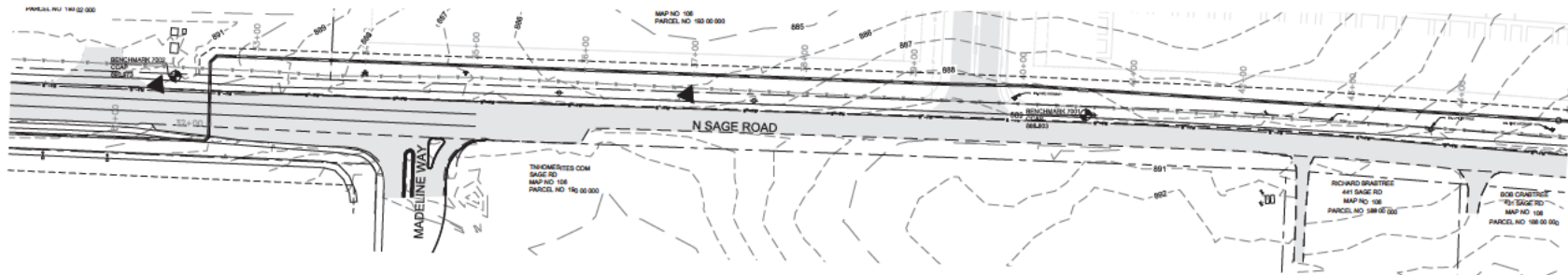
REVIEWER: **RLB**

PROJECT: **21-904**

DATE: **01/21/2022**

SHEET: **C-601**





EPSC LEGEND

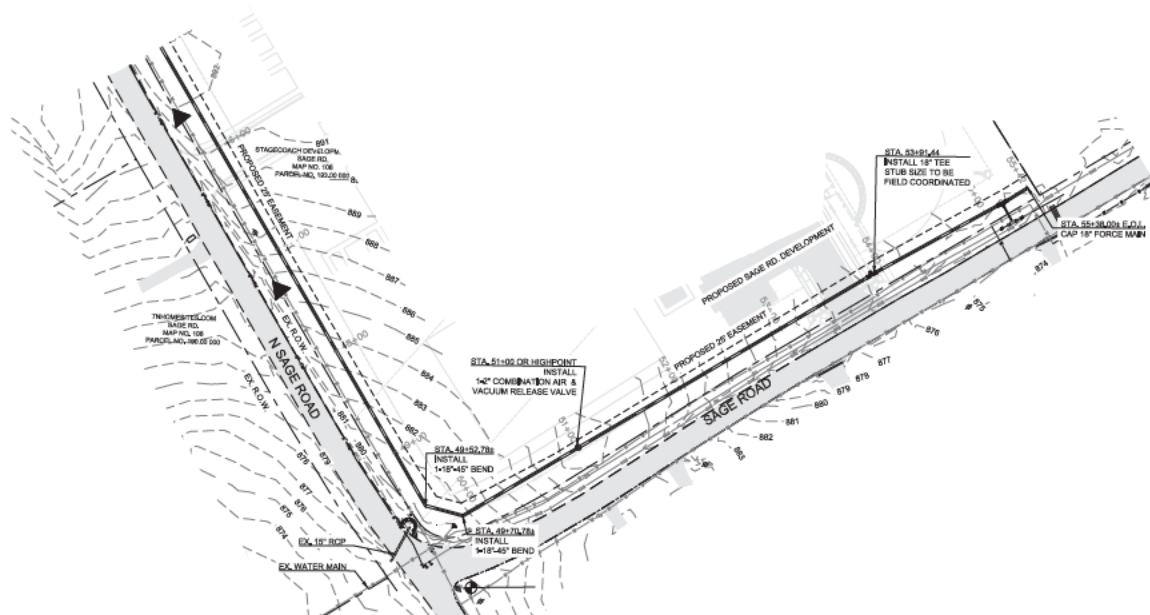
- FILTER SOCK CHECK DAM
- SILT FENCE
- INLET PROTECTION



NOTE: ALL EPSC MEASURES ARE TEMPORARY UNLESS STATED PERMANENT

ALL DISTURBED SHALL BE PERMANENTLY STABILIZED WITH SEED AND STRAW. UNLESS ON SLOPES 3:1 OR STEEPER, THEN EROSION CONTROL BLANKET SHALL BE INSTALLED AND PROPERLY STAKED.

CHECK DAMS SHALL BE INSTALLED IN THE VICINITY AND DOWN STREAM OF ACTIVE OR RECENTLY ACTIVE EROSION TO PREVENT SEDIMENT TRANSPORT. SPACING SHALL BE DETERMINED BY THE SLOPE OF THE SUBJECT DITCH LINE AS SHOWN IN THE DETAIL ON SHEET C-603.



PURPOSE FOR ISSUE: CONSTRUCTION SCALE: 1"=50'



EPSC PLAN
STA. 30+00 TO E.O.L.
SOUTHERN FORCE MAIN
THE CITY OF WHITE HOUSE
WHITE HOUSE, TENNESSEE
ROBERTSON COUNTY



NO.	DATE	BY	DESCRIPTION

DESIGNER: RLB
REVIEWER: RLB

PROJECT: 21-904

DATE: 01/21/2022

SHEET C-602



EROSION, SEDIMENT AND POLLUTION CONTROL NOTES

EROSION CONTROL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE STORMWATER PERMITTING REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL, AND THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

MAINTENANCE, EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ALL SEDIMENT CONTROLS AND CRITICAL SLOPES 3:1 OR GREATER MUST BE STABILIZED WITHIN 7 CALENDAR DAYS OF DISTURBANCE. ALL OTHER DISTURBED AREAS OF THE PROJECT SITE MUST BE STABILIZED WITHIN 15 CALENDAR DAYS.

ALL POINTS OF INGRESS AND EGRESS SHALL BE PROTECTED TO MINIMIZE TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS AND ROADS. ANY EARTH, GRAVEL, AND/OR OTHER MATERIAL TRACKED, SPILLED, OR WASHED ONTO ROAD OR ADJACENT PROPERTIES MUST BE IMMEDIATELY REMOVED AND DISPOSED OF IN A PROPER MANNER. FLUSHING WILL NOT BE PERMITTED. ALL MATERIAL MUST BE REMOVED BY MEANS OF SHOVELING AND SWEEPING.

SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL SITE IS PERMANENTLY STABILIZED.

AFTER SITE IS PERMANENTLY STABILIZED AND BEFORE EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL CLEAN DEBRIS AND SILT FROM ALL STORM SEWERS, STRUCTURES AND DITCHES IN AREA OF WORK.

ALL EXCAVATED MATERIAL SHALL BE PLACED ON HIGH SIDE WHEREVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL FLOW OF THE DRAINAGE.

PUMPING OF SEDIMENT LADEN WATER WILL NOT BE ALLOWED UNLESS IT IS FILTERED BY WAY OF AN APPROVED SEDIMENT TRAPPING DEVICE.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING FILTERS AND SILT FENCES CLEAR OF SEDIMENT BUILDUP DURING CONSTRUCTION.

AN INSPECTION OF THE EPSC MEASURES SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK AND DOCUMENTED ON THE TDEC CONSTRUCTION STORMWATER INSPECTION FORM. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART.

BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT IF POSSIBLE, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.

ANY SEDIMENT CONTROL DEVICES DISTURBED DURING SITE GRADING AND UTILITY CONSTRUCTION MUST BE RESTORED IMMEDIATELY.

EXPOSE THE SMALLEST AREAS OF SOIL FOR AS SHORT A TIME AS POSSIBLE.

KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS. USE TEMPORARY VEGETATION AND / OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.

ALL CUT/FILL AREAS TO HAVE A MINIMUM OF 6-INCH DEPTH TOPSOIL COVER. AREAS DRESSED WITH TOPSOIL WILL RECEIVE 12 POUNDS PER 1000 SQUARE FEET OF FERTILIZER, 8 POUNDS OR MORE OF SEED PER 1000 SQUARE FEET (SEE TDOT SEED CHART) AND A STRAW MULCH OF 70% - 80% COVERAGE (APPROXIMATELY 125 POUNDS PER 1000 SQUARE FEET) EXCEPT AS OTHERWISE DETERMINED BY PLAN.

DISTURBED AREAS ARE TO BE GRADED TO DRAIN AS INDICATED ON PLAN TO SEDIMENT BARRIERS DURING AND UPON COMPLETION OF CONSTRUCTION.

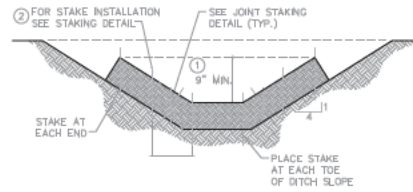
UPON STABILIZATION OF THE PROJECT SITE WITH A GOOD (ACCEPTABLE) STAND OF GRASS AND/OR GROUND COVER, THE EPSC INSTALLATIONS WILL BE REMOVED AND THE AREA DISTURBED WILL BE SEEDED AND MULCHED WITH THE SAME TREATMENT AS OTHER NEW GRASSSED AREAS OF THE PROJECT. ANY AREAS THAT ARE LEFT DISTURBED FOR OVER 14 DAYS, THE CONTRACTOR SHALL STABILIZE WITH TEMPORARY SEEDING AND MULCHING, WITH THE SAME TREATMENT AS OTHER NEW GRASSSED AREAS OF THE PROJECT.

WHEN TWO SECTIONS OF SILT FENCE ARE JOINED TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. SILT FENCE TO BE FASTENED SECURELY EVERY 6' ALONG POST. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN IT REACHES 50% OF THE HEIGHT OF THE FABRIC. WOOD POSTS, 2"x2" HARDWOOD WITH MIN. CROSS SECTION AREA OF 3 INCHES, STEEL POST, EITHER T OR U TYPE, NOT WEIGHING LESS THAN 1 LB./L.F. SILT FENCE PER TDOT SECTION 9-6.27, AASHTO M 293, CLASS A.

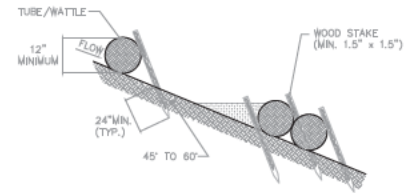
ALL EPSC MEASURES WERE DESIGNED USING A 2 YEAR 24 HOUR STORM PER TDEC.

NOTES:

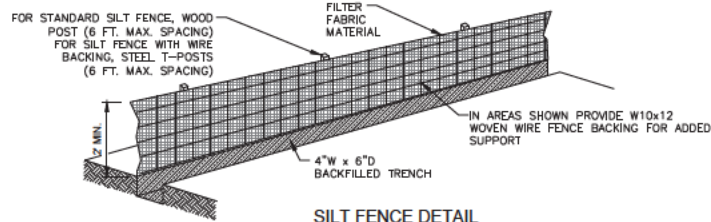
- THE DEPTH AND WIDTH OF THE WEIR SECTION OF THE WATTLE SHALL BE DESIGNED TO PASS THE 2 1/2"/24H OR 5 1/2"/24H STORM EVENT WITHOUT OVERTOPPING THE CHANNEL.
- STAKE PER MANUFACTURERS RECOMMENDATIONS



SECTION A-A



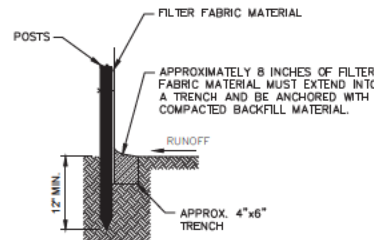
SECTION B-B



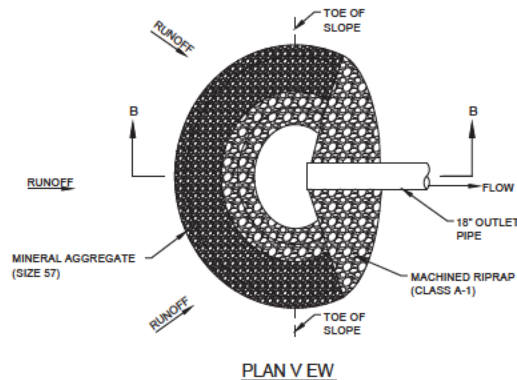
SILT FENCE DETAIL
NOT TO SCALE

SILT FENCE MAINTENANCE PLAN

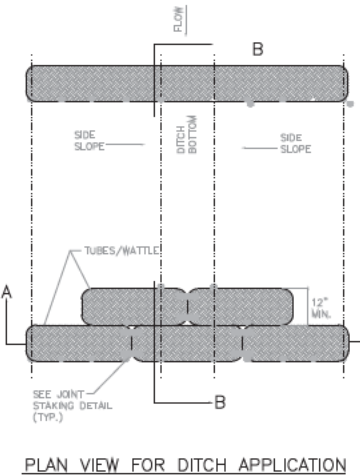
- CARE SHALL BE TAKEN TO MINIMIZE THE MOVEMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES AND PUBLIC ROADS UNTIL THE IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATIONAL INTEGRITY FOLLOWING EVERY RUNOFF PRODUCING RAINFALL BUT IN NO CASE LESS THAN EVERY WEEK. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN THE MEASURES PERFORMANCE AS DESIGNATED.
- SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF SILT FENCE WHEN IT REACHES A MAXIMUM SIX-INCH (6") DEPTH AT THE FENCE. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.



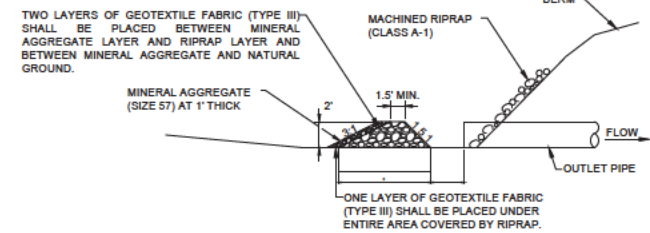
SECTION



PLAN VIEW



PLAN VIEW FOR DITCH APPLICATION



SECTION B-B
INLET PROTECTION DETAIL (PIPE)

EPSC NOTES AND DETAILS

SOUTHERN FORCE MAIN
THE CITY OF WHITE HOUSE
DADE TIA
ROBERTSON COUNTY

PHILIP L. CASTERNE
REGISTERED PROFESSIONAL ENGINEER
STATE OF TENNESSEE
01/19/22

NO.	DATE	BY	DESCRIPTION

DESIGNER: **ELB**
REVIEWER: **PLB**

PROJECT: **21-904**

DATE: **01/21/2022**

SHEET: **C-603**