

Halie Gallik
Mayor

Jessica Salamida
Vice Mayor

Derek Adams
Commissioner



Kate Cortner
Commissioner

Joel Miller
Commissioner

Montique Luster
Town Recorder

Town of Nolensville

October 17, 2023

ATTN: ARAP Processing Tennessee Department of Environment and Conservation
Division of Water Resources
Nashville, Tennessee 37243

RE: ARAP Application- 8-inch dia. Sewer Extension Crossing, 1686 Sunset Rd.,
Nolensville, Williamson County

Attached is a completed and signed Aquatic Resource Alteration Permit application for a 2 ft impact to cross Mill Creek with an 8-inch diameter sewer line. This sewer line extension is a part of the main sewer system for the Town of Nolensville, TN.

Please contact Tony Grow at (931) 273-4681 if you have any questions. Mr. Grow will represent the Town of Nolensville on all matters with respect to processing the attached ARAP application.

Sincerely,

Donald R. Swartz, P.E.
Town Engineer
Town of Nolensville

Enclosure 1. ARAP Application with Sections 6-8 Information
Distribution: Mr. Anthony Grow, PG, TNQH



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee, 37243
1-888-891-8332 (TDEC)

Rcd DWR
em
10.17.2023

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY	Site #:	Permit #:	NR2304.278
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Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name (company or individual): Town of Nolensville		SOS #:	Status: Active
Primary Contact/Signatory: Don Swartz		Signatory's Title or Position: Town Engineer	
Mailing Address: 7218 Nolensville Road		City: Nolensville	State: TN Zip: 37135
Phone: 615.776.3323	Fax:	E-mail: dswartz@nolensvilletn.gov	

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name: Tony Grow			
Company: Grow Environmental Solutions LLC		Title or Position: Consultant	
Mailing Address: 1406 Wilson Avenue		City: Tullahoma	State: TN Zip: 37388
Phone: 931-273-4681	Fax:	E-mail: tony@growenv.com	

Section 3. Fee (application will be incomplete until fee is received)

☐ No Fee ☒ Fee Submitted with Application Amount Submitted: \$ 500.00

Current application fee schedules can be found at the Division of Water Resources webpage at:
<https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html>
or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".

Billing Contact (if different from Applicant): Name: Email:
Address: Phone:

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name: Town of Nolensville Sewer Extension		Nearest City, Town or Major Landmark: Nolensville	
Street Address or Location (include zip): 1686 Sunset Road, Nolensville, TN 37135			
County(ies): Williamson	MS4 Jurisdiction: Nolensville	Latitude (dd.dddd): 35.9639254	
		Longitude (dd.dddd): -86.6791689	
Resources Proposed for Alteration: ☒ Stream / River ☐ Wetland ☐ Reservoir			
Name of Water Resource (for more information, access http://tdeconline.tn.gov/dwr): Mill Creek			
Brief Project Description (a more detailed description is required under Section 8): 8" Sewer Crossing under Mill Creek			

Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? ☒ Yes ☐ No

If Yes, provide the permit reference numbers: USACE Nationwide Permit 58-Utility Line Activities for Water and Other Substances

Will the activity require a 401 Water Quality Certification: ☐ Yes ☐ No

If Yes, attach any 401 WQC pre-filing meeting request documentation

Is the proposed activity associated with a larger common plan of development: ☐ Yes ☒ No

If Yes, submit site plans and identify the location and overall scope of the common plan of development.

Plans attached? ☒ Yes ☐ No

If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 5. Project Schedule (fill in information and check appropriate boxes)	
Proposed start date: 2023	Estimated end date: 2024
Is any portion of the activity complete now? ☐ Yes ☒ No	
If yes, describe the extent of the completed portion:	

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Description	Attached Yes	No
6.1 A narrative description of the scope of the project	☒	☐
6.2 USGS topographic map indicating the exact location of the project (can be a photographic copy)	☒	☐
6.3 Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	☐	☒
6.4 A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	☒	☐
6.5 A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	☒	☐
6.6 In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	☐	☒
6.7 A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	☐	☒

Section 7. Project Rationale	Attached Yes	No
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources	☒	☐

Section 8. Technical Information	Attached Yes	No
8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	☒	☐
8.2 For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring	☒	☐
8.3 Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	☒	☐

Section 9. Water Resources Degradation (degree of proposed impact)
Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than <i>de minimis</i> degradation to water quality. Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation: ☒ a. <i>De minimis</i> degradation, no appreciable permanent loss of resource values ☐ b. Greater than <i>de minimis</i> degradation (if greater than <i>de minimis</i> complete Sections 10-11) For information and guidance on the definition of <i>de minimis</i> and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at: https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

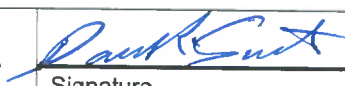
Section 10. Detailed Alternatives Analysis		Attached Yes No	
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.	☐	☐
10.2	Discuss the social and economic consequences of each alternative	☐	☐
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	☐	☐

Section 11. Compensatory Mitigation		Attached Yes No	
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	☐	☐
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.	☐	☐
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	☐	☐
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	☐	☐
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)	☐	☐

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Don Swartz	Town Engineer		10/17/2023
Printed Name	Official Title	Signature	Date

Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



Section 6: Project Description

- 6.1 A narrative description of the scope of the project:** The project is an extension to the existing sanitary sewer system for the Town of Nolensville. The development proposes to install an 8-inch diameter sewer line that will cross Mill Creek. The crossing location is at approximately 35.9639254, -86.6791689 (see attached drawings). Note the concrete encasement details for the Nashville Crayfish.
- 6.2 USGS topographic map:** See attached.
- 6.3 Photographs of the resource(s) proposed for alteration with location description:** None.
- 6.4 A narrative description of the existing streams:** The utility will cross Mill Creek at approximately 35.9639254, -86.6791689. The bedrock bottom of the stream at this location is approximately 35 feet across.
- 6.5 A narrative description of the proposed streams/wetlands:** This activity will be conducted across Mill Creek. The development proposes to install an 8-inch sewer line across the location described in 6.1 and 6.4 and indicated on the attached drawing(s). The crossing will be installed via a 2 ft wide by 5 ft deep open trench. Each trench will be excavated via rock saw and hoe-ram method. Cofferdams will be installed at the sewer crossing location and stream flow routed around the trenches. The impact from the installation of the sewer line will be temporary. The sewer line will be installed according to the attached drawings.
- 6.6 In case of wetlands, include wetland delineation with delineation forms:** There are no wetlands impacted as part of this ARAP application.
- 6.7 A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site:** None.

Section 7: Project Rationale

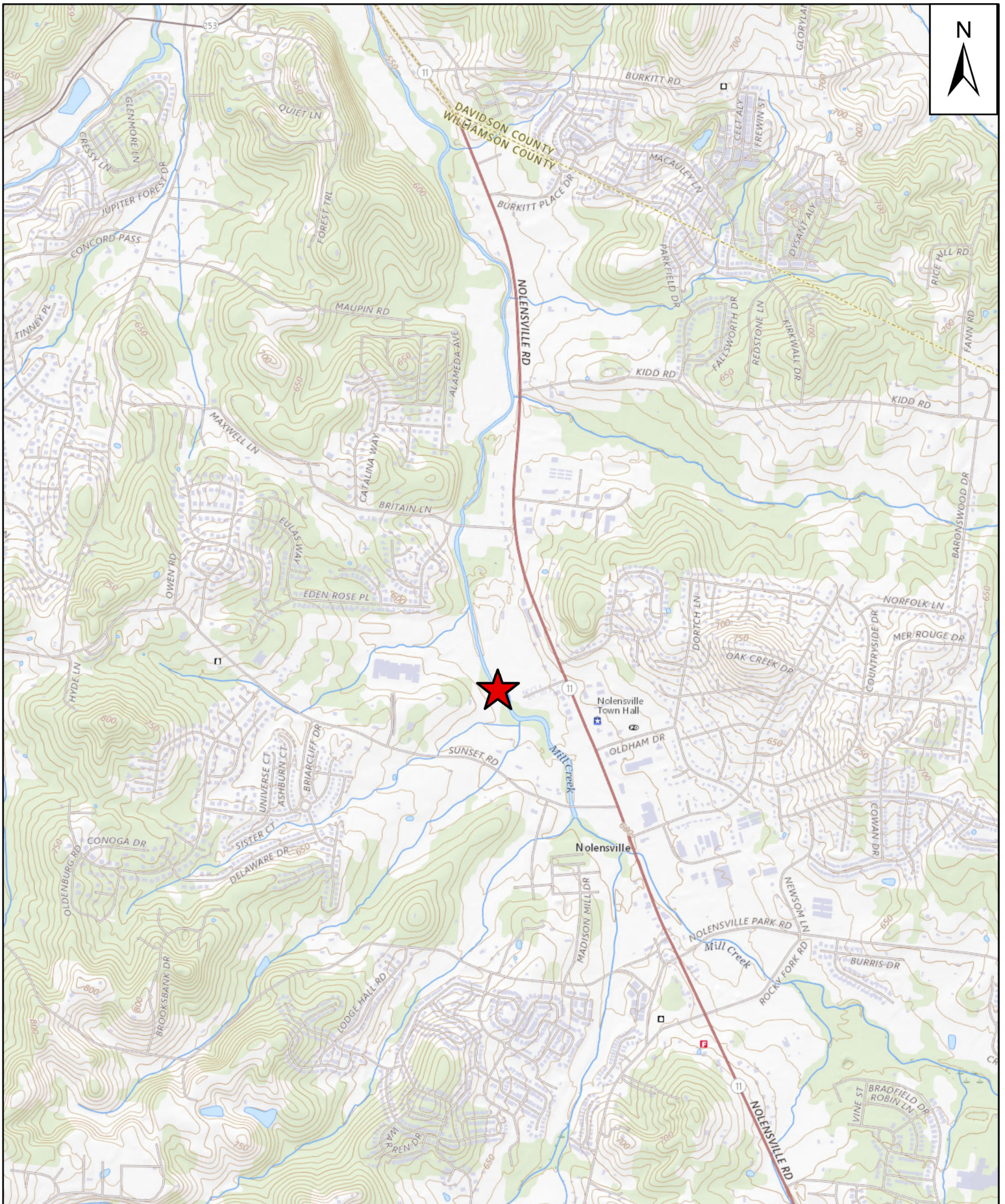
The proposed activity is required to increase access of the Town of Nolensville sewer system. Alternatives to installing the sewer extension included:

1. Alternate design. The proposed design maximizes land availability/location while impacting the lowest number of water resources.
2. Locate to another site. This alternative would result in a less convenient design location.
3. Do not construct development. This alternative would result in less access to the sanitary sewer by the Town of Nolensville and its citizens/business owners.

Section 8: Technical Information

- 8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed):** Attached
- 8.2 For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods:** Storm water controls (storm water management basins, silt fencing, etc.) will be implemented for the development. Rip Rap will be installed on the banks of the creek from the top to bottom of the slope leading to the crossing. The crossing will be installed via a 3 ft wide by 5 ft deep open trench. The trench will be excavated via rock saw and hoe-ram method. A coffer dam will be installed at the sewer crossing location and stream flow routed around the trench.
- 8.3 Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations:** Silt fencing will be utilized during construction of the utility crossing. Rip Rap will be installed on the slopes of the creek above the crossing location.

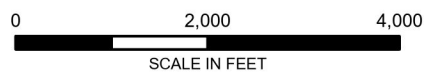
Attachment 1. Site Location/Topographic Map and Design Conceptual Drawings



LEGEND



Site_Location



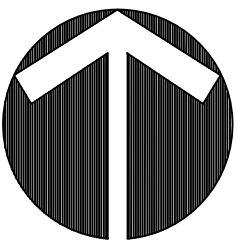
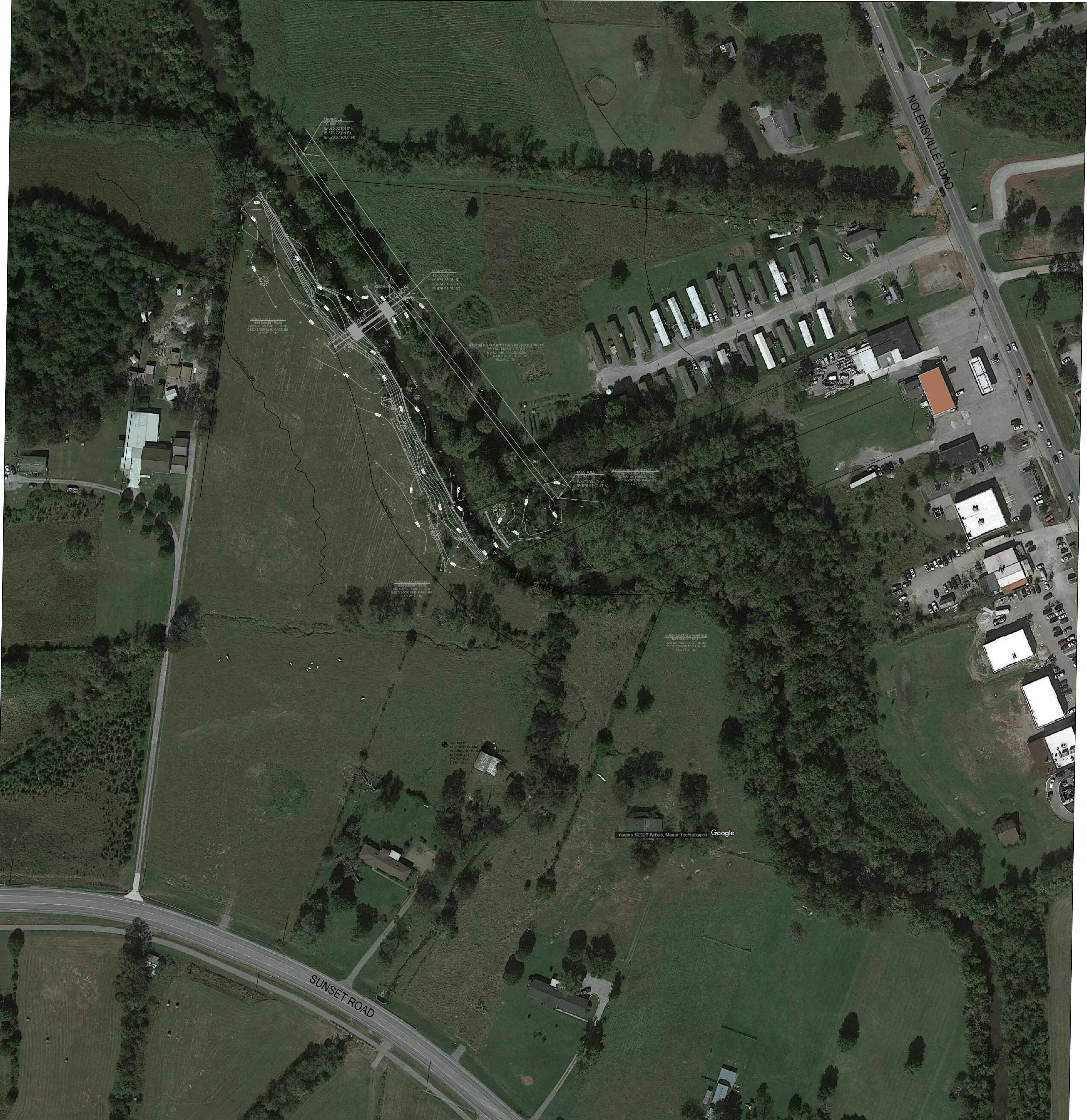
Coordinate System: NAD 1983
State Plane Tennessee Feet

PROJECT LOCATION MAP
1686 SUNSET ROAD
NOLENSVILLE, WILLIAMSON COUNTY, TN



GROW
ENVIRONMENTAL SOLUTIONS

CONSTRUCTION PLANS
TOWN OF NOLENSVILLE SEWER EXTENSION
1686 SUNSET ROAD
NOLENSVILLE TN 37135



VICINITY MAP

NTS

PROPERTY ADDRESS:

1686 SUNSET ROAD
NOLENSVILLE, TN 37135

JURISDICTION:

TOWN OF NOLENSVILLE, TN
WILLIAMSON COUNTY, TN
METRO WATER SERVICES-SEWER PROVIDER

SHEET INDEX

SHEET	DESCRIPTION
C0.00	COVER SHEET (1" = 100')
C1.00	EXISTING CONDITONS SURVEY
C3.00	SEWER LINE A PLAN AND PROFILE SHEET
C4.00-C4.01	SITE DETAILS

OWNER:

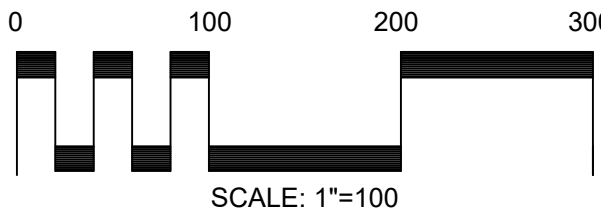
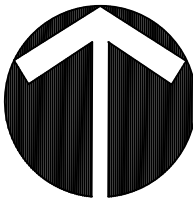
TOWN OF NOLENSVILLE

7218 NOLENSVILLE ROAD
NOLENSVILLE TN 37135

PROJECT ENGINEER:

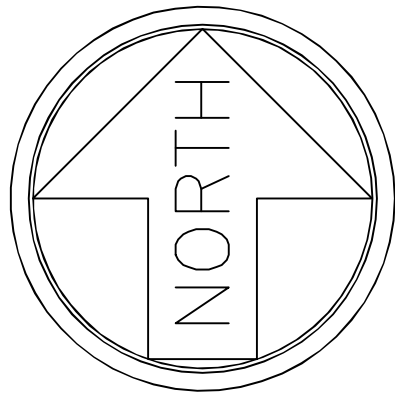
MCNEELY CIVIL ENGINEERING, LLC

254 BELGIAN ROAD
NOLENSVILLE, TN 37135
Tel. 615.335.3172



COVER SHEET

C0.00



LEGEND

---	PROPERTY LINE
-x-x-	FENCE LINE
-g-	GAS LINE
-s-	SEWER LINE
-st-	STORM LINE
-w-	WATER LINE
-M.B.S.L.-	MIN. BLDG. SETBACK LINE
-OHP/T-	OVERHEAD POWER OR TELE.
-P.U.D.E.-	PUBLIC UTILITY & DRAINAGE EASEMENT
BHO	BOREHOLE
CIO	CLEANOUT
EB	ELECTRIC BOX
EMO	ELECTRIC METER
FH	FIRE HYDRANT
GMO	GAS METER
IPO	IRON PIN NEW / SET
MNS	MAG NAIL SET
PMO	PARKING METER
POST	POST
SV	SEWER VALVE
UST	TELEPHONE RISE
WM	WATER METER
WELL	WELL
YH	YARD HYDRANT
CB	CATCH BASIN
DT	DECIDUOUS TREE
ET	EVERGREEN TREE
GV	GAS VALVE
LP	LIGHT POLE
MB	MAILBOX
MH	MANHOLE
PP	POWER POLE
SG	SIGN
WL	WATER VALVE

NOTES:

- This survey meets the requirements of a "General Property Survey" as per standards of practices, 0820-3-.07 adopted by the Board of Examiners for Land Surveyors, State of Tennessee. This survey also meets the requirements of "Maps and Mapping" as per standards of practice, 0820-3-.06 adopted by the Board of Examiners for Land Surveyors, State of Tennessee. Bearings are based on the Tennessee State Plane Coordinate System, NAD83 (Horizontal) and NAVD88 (Vertical).
- Distances were measured with GPS & E.D.M. equipment and have been corrected for temperature and barometric pressure.
- This survey was made using the latest recorded deeds/plats of record. The state of facts shown hereon are based on a professional opinion in regards to information obtained during the survey and does not constitute a warranty or guarantee, expressed or implied. No Title Commitment was supplied.
- This property is located in an area designated "Zone X" and a portion in "Zone AE" as per the National Flood Insurance Rate Map No. 47187C0235G Dated: February 26, 2021 and shown hereon by FEMA GIS.
- Above grade and underground utilities shown were taken from visible appurtenances at the site, public records and/or maps prepared by others. This surveyors makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities are in the exact location indicated. Therefore, reliance upon the type, size, and location of utilities shown should be done so with this circumstance considered. Detailed verification of existence, location and depth should also be made prior to any decision relative thereto is made. Availability and cost of service should be confirmed with the appropriate utility company. In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act", that anyone who engages in excavation must notify all known underground utility owners, no less than than three (3), nor more than ten (10) working days prior to the date of their intent to excavate and also to avoid any possible hazard or conflict. Tennessee One Call: 1-800-351-1111
- Information shown hereon was derived from random shots, cross sections and radial shots utilizing a conventional Carlson CR1+ robotic total station and a Carlson Brx7 base/rover GNSS system.
- For: McNeely Engineering.

ZONE "X"

ZONE "AE"

ZONE "AE"

ZONE "X"

MANHOLE
TC-585.22
IE-575.32 (IN 8")
IE-573.72 (IN S)
IE-573.67 (OUT N)

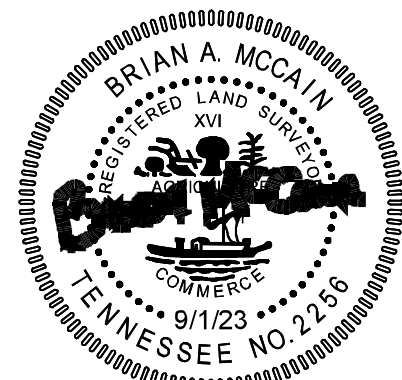
MANHOLE
TC-585.31
IE-574.86 (IN S)
IE-574.81 (OUT N)
IE-576.91 (IN 6")

GEORGE F. BARTLETT FAMILY REVOCABLE TRUST
7201 NOLENSVILLE ROAD
TAX MAP 56, PARCEL 42.00
DEED BOOK 4933, PAGE 912
(R.O.W.C., TN)

MANHOLE
TC-587.14
IE-575.99 (IN E)
IE-575.94 (OUT N)

JAMES & NICOLAS NAPOLITANO
7205 NOLENSVILLE ROAD
TAX MAP 56, PARCEL 41.00
DEED BOOK 8009, PAGE 583
(R.O.W.C., TN)

TOWN OF NOLENSVILLE
1688 SUNSET ROAD
TAX MAP 56, PARCEL 30.00
DEED BOOK 9298, PAGE 184
(R.O.W.C., TN)



MILL CREEK
FLOW

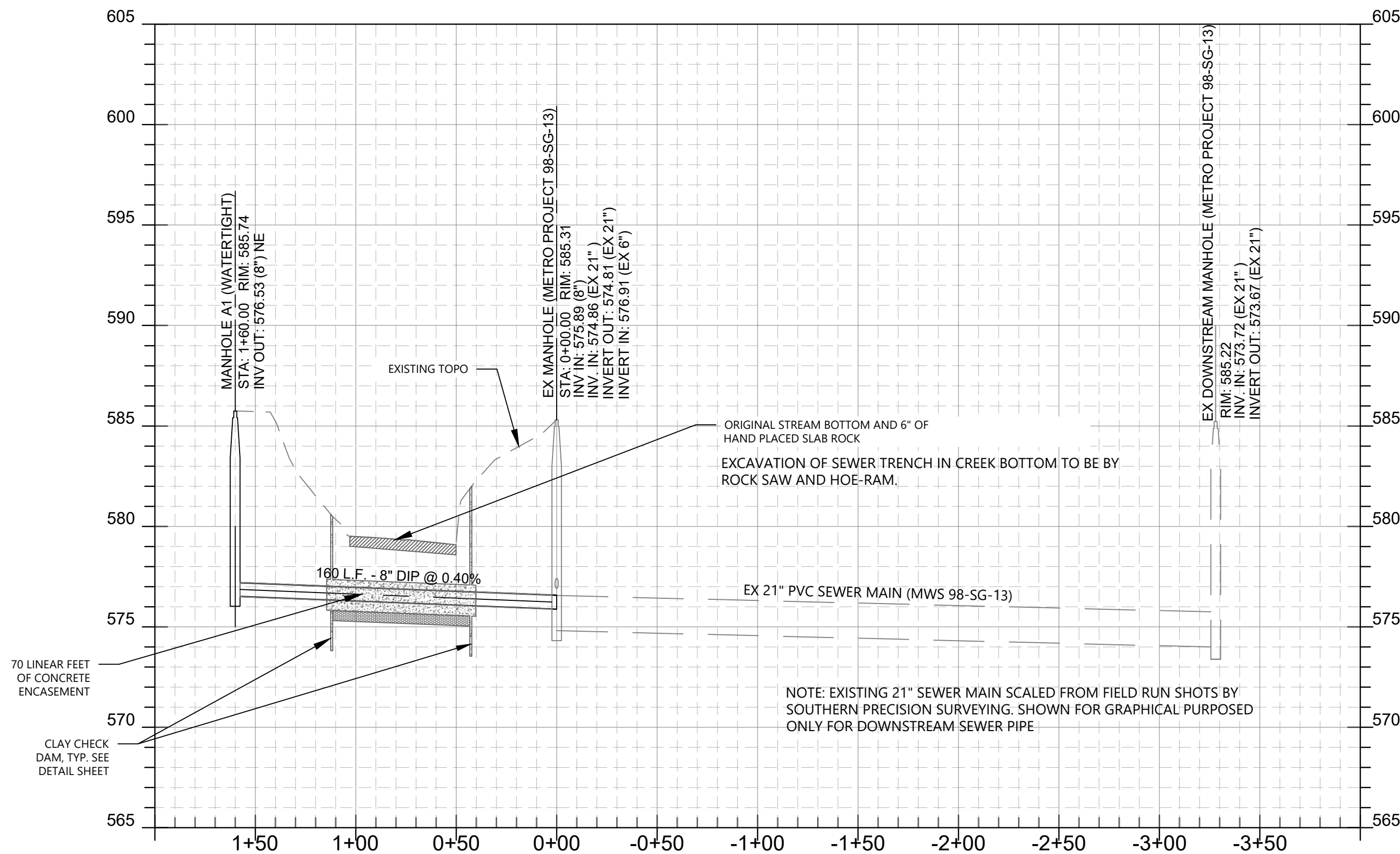
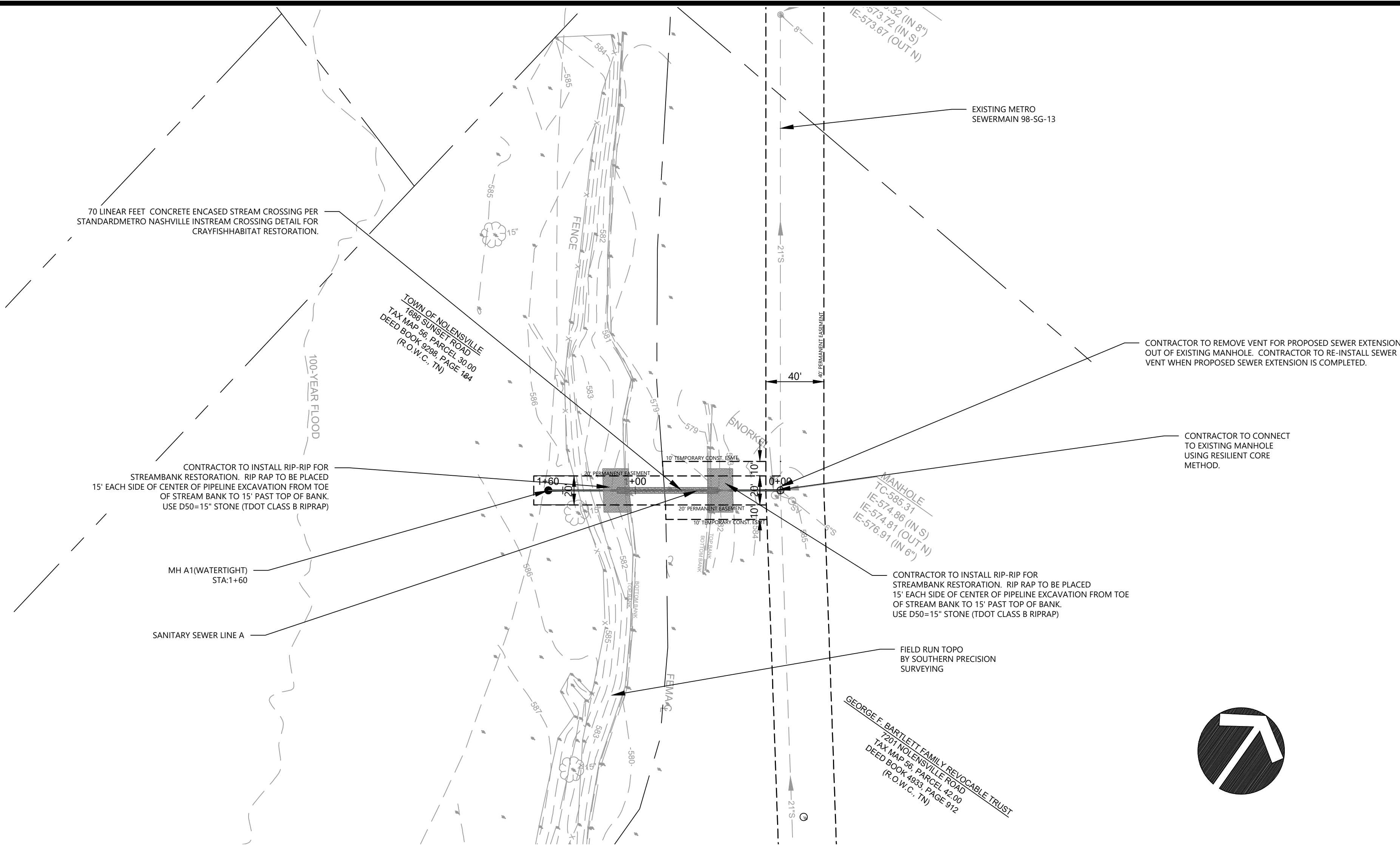
AARON MATTHEW WARNOLD
1692 SUNSET ROAD
TAX MAP 56, PARCEL 31.00
DEED BOOK 8912, PAGE 545
(R.O.W.C., TN)

TOPOGRAPHIC SURVEY
SEWER EXTENSIONS
17TH CIVIL DISTRICT
NOLENSVILLE, WILLIAMSON COUNTY, TENNESSEE
SCALE: 1" = 50' DATE: 9/1/23

DRAWN BY: BAM PROJECT NO. 23-2772



SOUTHERN PRECISION
LAND SURVEYING, INC.
227 MCCAIN DRIVE
KINGSTON SPRINGS, TN 37082
(615) 772-5481
Brian McCain, P.L.S. - President
brian@southernprecision.net
"WE'LL PUT YOU ON THE MAP"



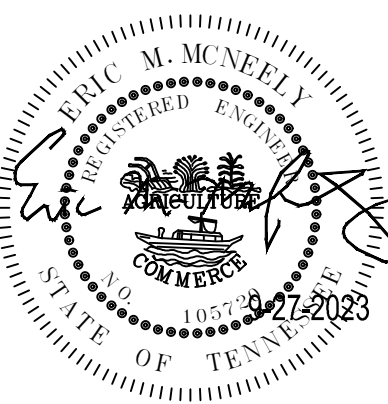
SEWER LINE A PROFILE
SCALE H:1"=50'; V:1"=5'

METRO SEWER NOTES:

1. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND STANDARD DETAILS OF METRO WATER SERVICES.
2. THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING METRO WATER SERVICES FOR THE COST OF INSPECTION.
3. AFTER COMPLETION OF THE SANITARY SEWER, THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE TELEVISIONING OF THE LINES PRIOR TO FINAL ACCEPTANCE. THE VIDEOTAPING MUST BE COORDINATED WITH THE METRO WATER SERVICES INSPECTION SECTION. ALL COSTS WILL BE BORNE BY THE DEVELOPER/OWNER.
4. THE LOCATIONS SHOWN FOR ALL EXISTING UTILITIES ARE APPROXIMATE; THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
5. THESE PLANS, PREPARED BY MCNEELY CIVIL ENGINEERING, LLC, DO NOT EXTEND TO OR INCLUDE ANY SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF MCNEELY CIVIL ENGINEERING, LLC REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR ANY LOCAL REGULATIONS.
6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND UTILITY OWNERS NO LESS THAN THREE (3) NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE START OF EXCAVATION WORK TO AVOID HAZARD OR DAMAGE TO EXISTING FACILITIES.
7. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY CORING AND RESILIENT CONNECTOR METHOD.
8. SEWER SERVICE - THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, ELEVATION AND CONDITION OF EXISTING SEWER FOR RE-USE. THE EXISTING SEWER SERVICE SHALL BE INSPECTED WITH THE UTILITY COMPANY AND OWNER'S REPRESENTATIVES TO ENSURE THERE WILL BE NO UNRESTRICTED FLOW IN THE EXISTING INVERT ELEVATION AT THE CONNECTION POINT TO ASCERTAIN THERE IS SUFFICIENT FALL FOR MINIMUM GRADE IN THE PROPOSED CONNECTION.
9. THE SANITARY SEWER LINE SHALL BE CLASS 52 DUCTILE IRON PIPE OR AS OTHERWISE INDICATED.
10. UPON COMPLETION OF CONSTRUCTION OF WATER AND/OR SEWER, THE ENGINEER SHALL PROVIDE THE DEPARTMENT WITH A COMPLETE SET OF AS-BUILT PLANS ON MOIST ERASABLE MYLARS IN REVERSE AND IN DIGITAL (.DWG) FORMAT. SEWER PLANS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER OR A REGISTERED LAND SURVEYOR AND SHALL INCLUDE ACTUAL FIELD ANGLES BETWEEN LINES, ALL ACTUAL SERVICE LINES AND TEE LOCATIONS, THE DISTANCE OF THE END OF THE SERVICE LINE TO PROPERTY CORNERS AND LINES AND/OR STATION AND OFFSET FROM SEWER CENTERLINE TO END OF SERVICE LINE, THE DEPTH TO THE TOP OF THE END OF THE SERVICE LINE, AND SHALL REFLECT ALL ALIGNMENT AND GRADE CHANGES. WATER LINE PLANS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER OR A REGISTERED LAND SURVEYOR AND SHALL INCLUDE OFFSET DISTANCE FROM THE ROADWAY CENTERLINE, OR PROPERTY LINE RIGHT OF WAY, LINE DEPTH, LOCATIONS OF HYDRANTS, VALVES, REDUCERS, TEES AND PRESSURE REDUCING DEVICES WHERE APPLICABLE. ALL DRAWINGS MUST BE COMPLETED AND SUBMITTED PRIOR TO ACCEPTANCE OF THE SEWERS OR WATER MAINS INTO THE PUBLIC SYSTEM AND ANY CONNECTIONS BEING MADE.

McNeely Civil
Engineering, LLC
254 Belgian Road
Nolensville, TN 37135

Permit-Seal:



Client/Project:

TOWN OF NOLENSVILLE

7240 NOLENSVILLE ROAD
SUITE 102
NOLENSVILLE, TN 37135
615-776-3633

1686 SUNSET ROAD
SEWER EXTENSION

Revisions:

Item: Date:

Project No.: MCE 230011

Designed By:

Drawn By:

Checked By: E. MCNEELY

Date:

Scale:

Title:

SANITARY SEWER
PLAN AND
PROFILE-LINE A

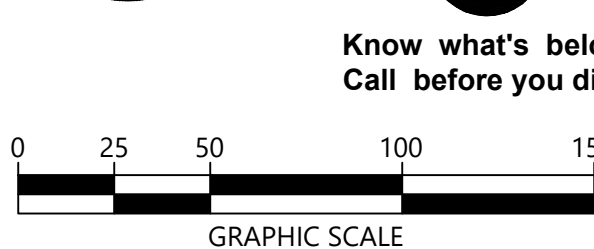
Drawing No.

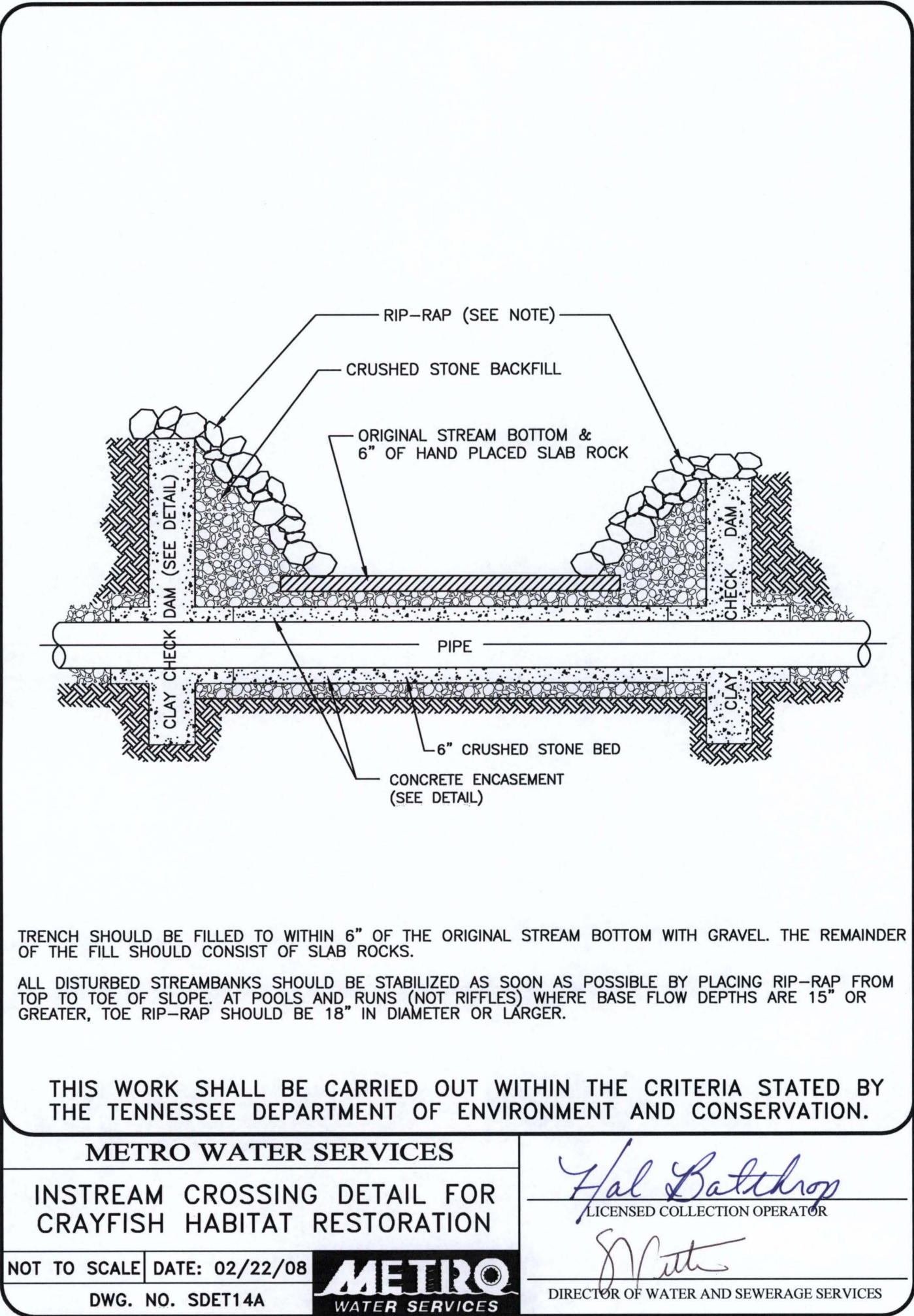
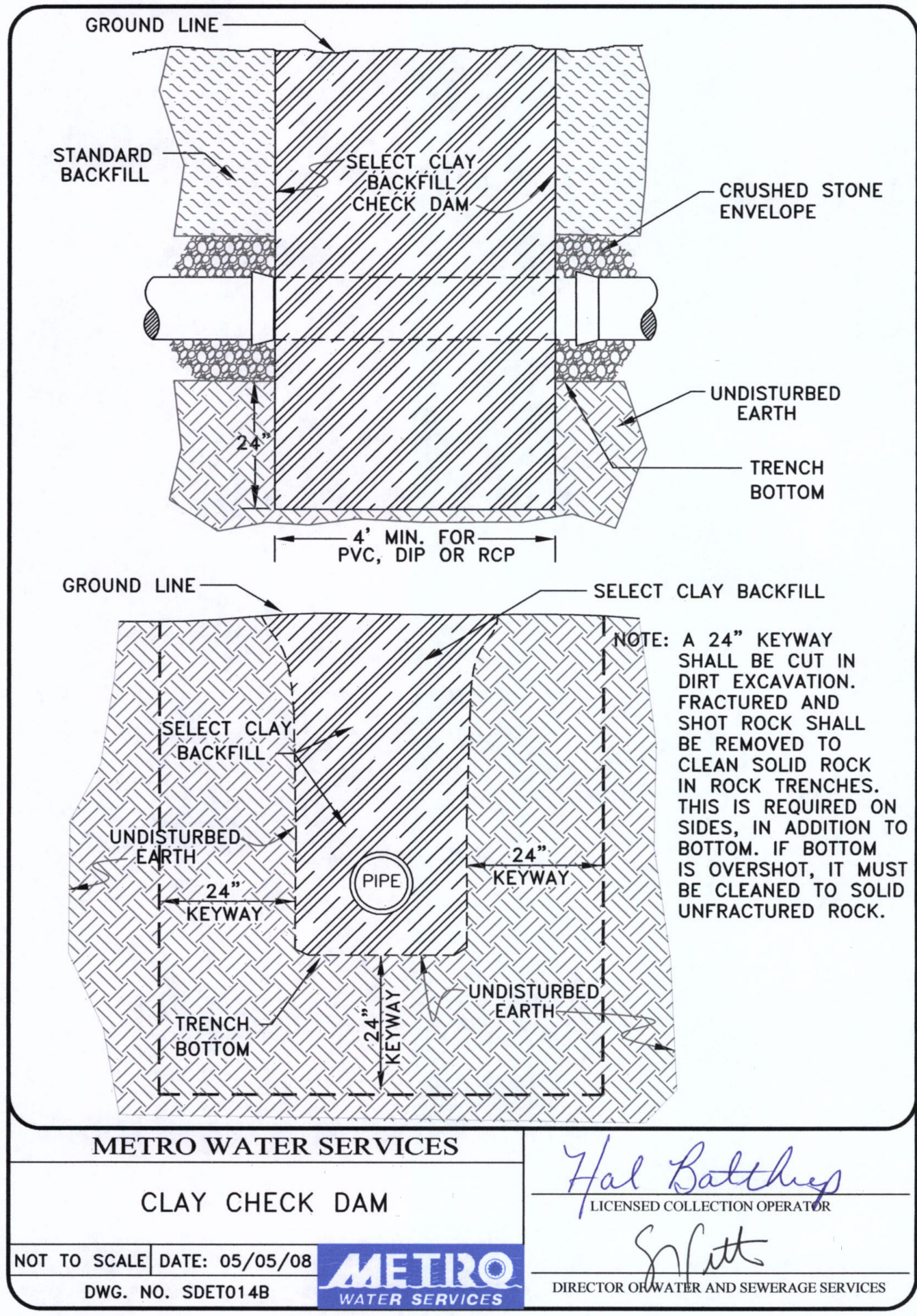
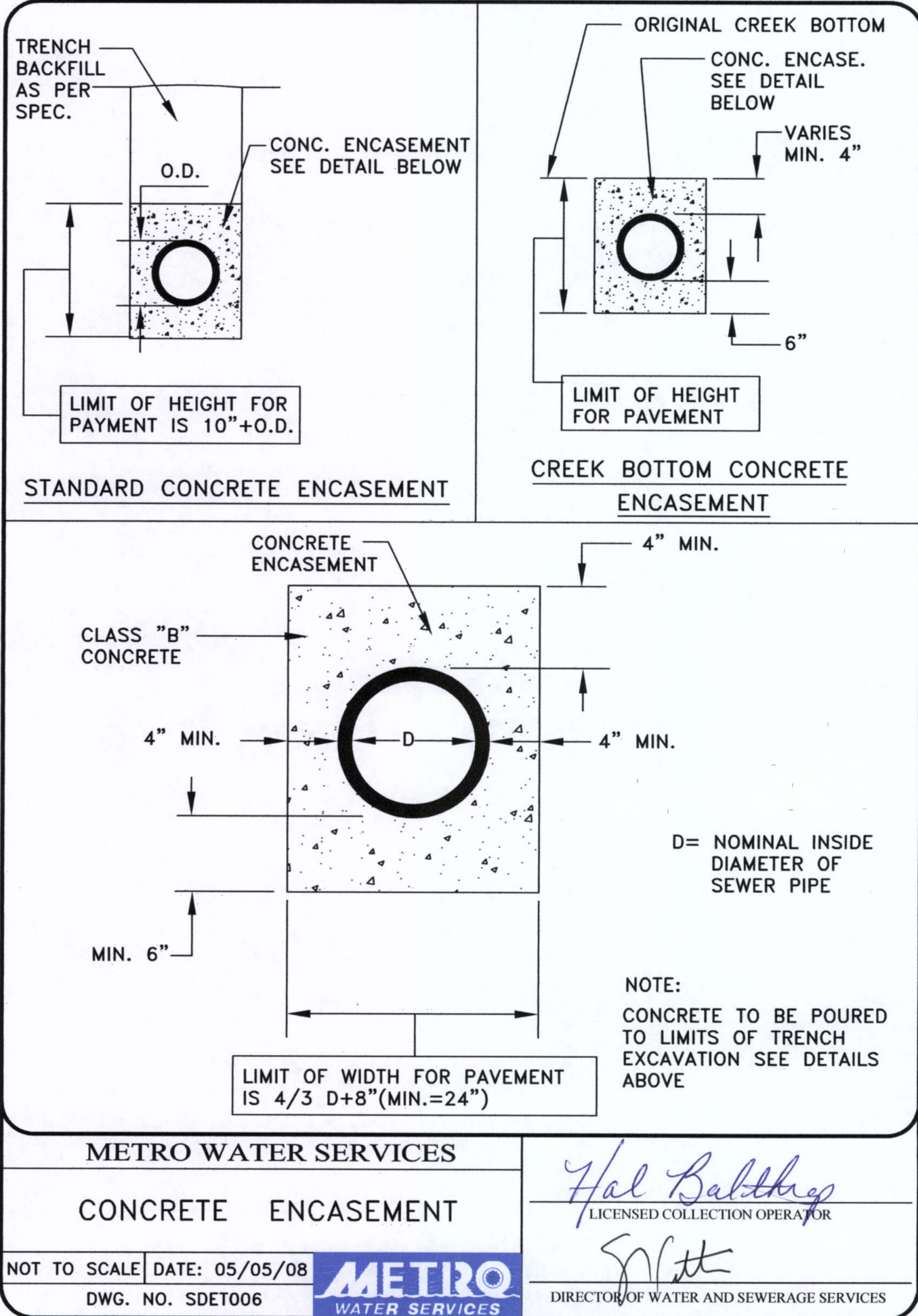
C3.00

NOTES:

1. SEE SHEET C2.00 FOR SITE NOTES.
2. SEWER LINES TO BE CLASS 52 DUCTILE IRON PIPE.
3. CONTRACTOR TO USE METRO NASHVILLE WATER SERVICES (MWS) DETAILS AND STANDARDS FOR INSTALLATION OF SEWER MAIN AND APPURTENANCES.

SITE BM.#1
DESCRIPTION: MAGHUB AT
EXISTING HOUSE AT 1686 SUNSET ROAD
N: 593493.11
E: 1767615.79
ELEV: 588.70





McNeely Civil
Engineering, LLC
254 Belgian Road
Nolensville, TN 37135

Permit-Seal:



Client/Project:

TOWN OF NOLENSVILLE

7240 NOLENSVILLE ROAD
SUITE 102
NOLENSVILLE, TN 37135
615-776-3633

1686 SUNSET ROAD
SEWER EXTENSION

Revisions:

Item: Date:

Project No.: MCE 230011

Designed By:

Drawn By:

Checked By: E. MCNEELY

Date:

Scale:

Title:

METRO SEWER DETAILS

Drawing No.

C4.00

