MULTIMODAL ACCESS CLOSURE EXCEPTION APPLICATION FORM AND CHECKLIST

Submittal Date: 8/26/25 ☐ **New Submittal** ☐ **Re-Submittal No:**

Related Building Permit No:

Project Name: Stormwater System Improvement for Newsom Station Road

Street Name Location: Newsom Station Road

Between: Rivervalley Drive **And:** Hwy 70

Applicant Name: Walker Building Group

Address: 2617 Locust Street

Phone: 615-961-0622 **Fax:** **Contact:** Mark Raymer

Email: Mraymer@walkerbuildinggroup.com

Project Description: install 14'x5' box bridge

Start Date: 9/12/25 **End Date:** 10/30/25 **Project Length:** 2 months

Describe Type of Closure: Road Closure while installing box bridge.

Provide Reasons why Project cannot be completed without closures and what other options were considered (attach documents as needed): The bridge is 14' wide, so the total excavation will be over 20' wide. Also the existing pipe has caused severe erosion under road and don't know the extent of voids under the road extend to rebuild the road.

PROJECT INFORMATION CHECKLIST:

Included	Not Applicable	
☑	☐	Project Vicinity Map with Project Area shown, street names, property information, existing pavement and striping, gutter and building locations, north arrow, and scale.
☑	☐	Planned work hours included.
☑	☐	Exact location and dimensions of the construction work zone shown.
☐	☑	If multiple phases are necessary, include perimeter impact of each phase, phase number, anticipated work hours and phase duration.
☐	☑	Details on construction activity and equipment being used as part of construction included for each phase.
☐	☑	Specify if any on-street parking, and/or metered parking, is to be restricted and if bus zone will need to be relocated.
☐	☑	Specify if trash pickup will be impacted.
☐	☑	Provide information on all utility work and utility connections.
☐	☑	List all affected residents, businesses, agencies, and schools and any conversations/agreements taken place.
☐	☑	Show ongoing construction projects within vicinity of proposed project impact.
☐	☑	Provide plan to address conflicts with other nearby projects.
☑	☐	Provide traffic control plan for each phase of construction (see traffic control checklist for more information).
☐	☑	Provide information on work vehicle parking locations.
☐	☑	Show construction trucks ingress/egress to project location.
☐	☑	Provide information on any traffic signals, traffic signal loops, and traffic signal cabinets in close proximity to project.

TRAFFIC CONTROL PLAN CHECKLIST:

Included	Not Applicable	
☑	☐	All temporary traffic control plans shall be designed in accordance with the most recent ADA regulations and requirements of the Manual of Uniform Traffic Control Devices.
☑	☐	Clearly show the locations of all existing signs (including speed limit) as well as the proposed signs for each construction phase.
☐	☑	Show the location of all existing pedestrian paths and pedestrian detour route of each stage of construction.
☐	☑	Show dimensions of travel lane width, shoulder width, sidewalk of each phase, and overall roadway width along the length of affected area.
☐	☑	Show all existing striping and markings to remain, to be removed, and all proposed striping and markings for each construction stage.
☐	☑	Provide detour plan clearly showing detour route for any roadway or pedestrian/bike path closures.
☐	☑	Specify placement of all temporary traffic control devices.
☐	☑	Specify spacing of all temporary traffic control devices.
☐	☑	Show all existing traffic signals and streetlights in the work zone location.
☐	☑	Lighting provided for all pedestrian detour routes.
☐	☑	Provide minimum eleven (11) foot travel lanes at all times.
☐	☑	Show size, height, and location of all channelizing devices, warning lights, flag trees, barriers, etc.
☐	☑	Label all taper lengths and widths.
☐	☑	Provide locations of police officers for each phase as needed.
☑	☐	Temporary Traffic Control Plan has been stamped and signed by a TN licensed Civil Engineer.

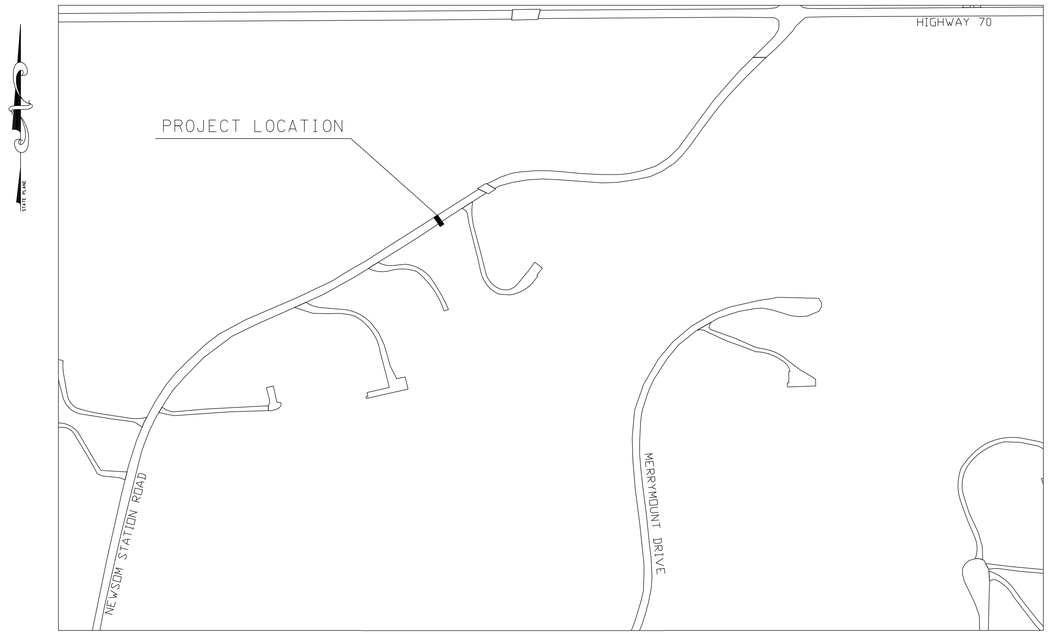
METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY, TENNESSEE

DEPARTMENT OF WATER AND SEWERAGE SERVICES

INDEX

DAVIDSON COUNTY
DISTRICTS 22 & 35

NEWSOM STATION ROAD
STORMWATER SYSTEM IMPROVEMENTS



SCALE: 1"=200'

FILE NO.	NEWSOM STATION ROAD
DATE:	12/28/2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG

REVISION BLOCK

DATE:	01-25-2024
DATE:	07-17-2025
DATE:	08-29-2025

07-17-2025: REVISION #3. SHEET 6A AND 6B ADDED TO SHEET INDEX.

08-29-2025: REVISION #4. SHEETS 4, 4A, 6 UPDATED

MWS PROJECT NUMBERS:
24-SWC-109

JOSEPH S BADYRKA REGISTERED ENGINEER 116230 STATE OF TENNESSEE 8/29/2025

FREDDIE O'CONNELL
METROPOLITAN MAYOR

METRO WATER SERVICES STORM WATER

SCOTT A. POTTER
DIRECTOR OF WATER & SEWERAGE SERVICES

ENGINEERING BY - METROPOLITAN DEPARTMENT OF WATER AND SEWERAGE SERVICES
STORMWATER DIVISION
1600 SECOND AVENUE NORTH
NASHVILLE, TN 37208

PREPARED BY:
consor
101 WESTPARK DRIVE, SUITE 300, BRENTWOOD, TN 37027
(888) 451-6822

UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, TDOT DESIGN STANDARDS AND STANDARD DRAWINGS, METROPOLITAN DEPARTMENT OF PUBLIC WORKS DETAILS AND SPECIFICATIONS, AND METROPOLITAN DEPARTMENT OF WATER SERVICES DETAILS AND SPECIFICATIONS

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, METROPOLITAN DEPARTMENT OF WATER AND SEWERAGE SERVICES STORMWATER MANAGEMENT MANUAL, AND NASHVILLE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND DETAILS, AND HARPETH VALLEY UTILITIES DISTRICT SPECIFICATIONS AND DETAILS FOR WATER AND SEWER CONSTRUCTION.

2. WATER LINE LOCATIONS WERE ESTIMATED FROM VALVE BOXES AND WATER METERS LOCATED BY SURVEYORS AND FROM BASE MAPPING PROVIDED BY HARPETH VALLEY UTILITIES DISTRICT. WATER LINES MAY BE LOCATED BY TENNESSEE ONE CALL PRIOR TO THE SURVEY IN SOME CASES. WATER LINES THAT WERE LOCATED BY TENNESSEE ONE CALL WILL BE NOTED ON THE EXISTING SITE PLAN(S). POTENTIAL CONFLICTS WITH MAIN SEWER LINES WERE ESTIMATED BY ASSUMING A CONSTANT SLOPE FROM THE UPSTREAM MANHOLE TO THE DOWNSTREAM MANHOLE. THE LOCATION OF SANITARY SERVICE LINES WERE ESTIMATED FROM AS-BUILT DRAWINGS PROVIDED BY METRO WATER SERVICES, AND CLEAN-OUTS LOCATED BY THE SURVEYORS, IF PRESENT. USE APPROXIMATE LOCATION OF SEWER SERVICE LINES AS GUIDANCE ONLY. LOCATION MAY OR MAY NOT BE ACCURATE. ADDITIONAL SERVICE LINES MAY BE PRESENT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND PROTECTING UTILITIES PROPOSED TO REMAIN. CONSOR ENGINEERS, LLC ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF THIS INFORMATION. REPAIRS AND/OR REPLACEMENTS TO ANY UTILITIES DAMAGED BY CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE.

3. THE CONTRACTOR SHALL USE TRAFFIC CONTROL METHODS AS APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, THE NASHVILLE DEPARTMENT OF TRANSPORTATION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).

4. THE CONTRACTOR SHALL COORDINATE, KNOW, AND HAVE WORK SCHEDULED FOR ALL APPLICABLE UTILITY RELOCATIONS PRIOR TO PROJECT WORK BEGINNING. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF SCHEDULE.

5. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY OWNER'S REPRESENTATIVE OF DIFFERING CONDITIONS PRIOR TO PROCEEDING WITH WORK.

6. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO STREETS, YARDS, MAILBOXES, FENCES, SIGNS, DRIVEWAYS, TREES, LANDSCAPING, IRRIGATION SYSTEMS, ETC. AT NO ADDITIONAL COST TO OWNER.

7. ALL DRIVEWAY REPAIRS SHALL MATCH EXISTING DRIVEWAYS IN WIDTH, DEPTH, AND MATERIAL UNLESS OTHERWISE SPECIFIED.

8. ALL PROPOSED ASPHALT TO GRADE TO NEW INLET(S).

9. EROSION AND SEDIMENT (E&S) CONTROL MEASURES TO BE INSTALLED PER METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY BEST MANAGEMENT PRACTICES (BMP), LATEST EDITION.

10. ONCE WORK HAS STARTED, THE CONTRACTOR SHALL PURSUE WORK DILIGENTLY UNTIL COMPLETE.

11. AREAS DESIGNATED FOR MILLING (COLD PLANING) SHALL BE SAW CUT TO A DEPTH OF TWO INCHES (2"). ALL OTHER JOINTS SHALL BE SAW CUT TO FULL DEPTH (ASPHALT AND CONCRETE) UNLESS OTHERWISE SHOWN ON THE PLANS OR CONTRACT DOCUMENTS.

12. THE UNIT PRICE BID FOR EACH ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION OF THE ITEMS SHOWN ON THE PLANS, IN THE DETAILS AND TYPICAL SECTIONS, AND AS CALLED OUT IN THE STANDARDS AND SPECIFICATIONS.

13. ALL PIPE SHALL BE BACKFILLED WITH #57 OR #67 CRUSHED STONE WHEN UNDER ANY PAVED OR RIGID SURFACE, PER METRO STANDARD DETAIL DR-180, DR-270a/b, DR-271a/b, AND/OR ST-272 AS APPLICABLE. WHEN NOT UNDER PAVEMENT, ALL PIPE SHALL BE BACKFILLED WITH #57 OR #67 CRUSHED STONE TO AT LEAST SIX INCHES (6") ABOVE THE PIPE, PER METRO STANDARD DETAIL DR-180.

14. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY ARRANGEMENTS MADE WITH PROPERTY OWNERS THAT ARE ADJACENT TO ANY PROPOSED WORK. THIS INCLUDES ARRANGEMENTS FOR UTILIZING PRIVATE PROPERTY FOR STORAGE (EQUIPMENT OR EXCAVATED MATERIALS), PARKING AREA, OR ACCESS. ALL COSTS ASSOCIATED WITH THIS WORK WILL NOT BE PAID FOR.

15. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES, AND SHALL BE REQUIRED TO KEEP ONE (1) LANE OF TRAFFIC OPEN AT ALL TIMES FOR THRU TRAFFIC AND EMERGENCY VEHICLES/EQUIPMENT.

16. THE CONTRACTOR SHALL ASSURE THAT ALL SERVICES THROUGH THIS CONTRACT SHALL BE COMPLETED IN FULL COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION, AS HAS BEEN ADOPTED BY METRO.

17. METRO WATER SERVICES WILL RETAIN OWNERSHIP OF ALL EXISTING DRAINAGE STRUCTURE GRATES THAT ARE NOT BEING UTILIZED FOR THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL DELIVER THE GRATES TO MWS STORMWATER MAINTENANCE YARD, 1607 COUNTY HOSPITAL ROAD. CONTACT JOE FEDUN AT 615-862-4164 FOR ACCESS AND SCHEDULING DELIVERY.

18. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS NEEDED FOR WORK, EXCAVATION, ROAD CLOSURE, ETC. FROM THE NASHVILLE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR WILL BE REIMBURSED FOR NDOT PERMIT FEES. ALL WORK SHALL CONFORM TO THE MOST CURRENT NDOT REQUIREMENTS AND SPECIFICATIONS FOR PAVEMENT REPLACEMENT/ PATCHING. REFER TO METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY STANDARD DETAILS ST-270a/b AND/OR ST-271a/b. ALL DRIVEWAY RAMPS, SIDEWALKS, SIDEWALK RAMPS, AND ROADWAY PAVEMENT REPLACEMENT WILL BE INSPECTED BY NDOT DURING AND AFTER CONSTRUCTION. IF THE NDOT INSPECTOR DETERMINES THAT CONSTRUCTION DOES NOT MEET CURRENT NDOT SPECIFICATIONS, THE CONTRACTOR SHALL DEMOLISH AND REPLACE ALL NON-COMPLIANT CONSTRUCTION AT NO ADDITIONAL COST TO METRO WATER SERVICES.

19. WHERE APPLICABLE, CONSTRUCTION SHALL CONFORM TO TDEC AQUATIC RESOURCE ALTERATION PERMIT PROGRAM REQUIREMENTS.

20. THE CONTRACTOR SHALL NOTIFY METRO WATER SERVICES CONSTRUCTION MANAGER OF ALL WATER LINE AND SANITARY SEWER RELOCATIONS. THE CONSTRUCTION MANAGER WILL COORDINATE PRE-CONSTRUCTION MEETINGS, ETC. AS NEEDED.

21. PLACEMENT OF SEED, MULCH, SOD, MATTING, AND TOPSOIL OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY AND EASEMENTS, ON PRIVATE PROPERTY, WILL NOT BE PAID FOR SEPARATELY. ALL COSTS ASSOCIATED WITH PLACEMENT OF THESE ITEMS ON PRIVATE PROPERTY, FOR ACCESS OF WORK AREA, OR MATERIAL STORAGE SHALL BE BORNE BY THE CONTRACTOR.

22. FOR BIDDING PURPOSES, THE CULVERT LENGTHS SHOWN ON THE PLANS ARE FROM CENTER TO CENTER OF STORM STRUCTURES, AND TO THE INLET OR OUTLET END OF PIPES WITH HEADWALLS. ACTUAL LENGTHS MAY BE SHORTER THAN DEPICTED ON THE PLANS. THE CONTRACTOR SHALL VERIFY REQUIRED LENGTHS WITH CONSTRUCTION MANAGER PRIOR TO PIPE INSTALLATION. PAYMENT WILL BE MADE FOR THE LINEAR FOOT OF CULVERT INSTALLED AND ACCEPTED. THE GROUTING OF THE ANNULUS AROUND ALL PIPE PENETRATIONS SHALL BE AN INCIDENTAL COST.

23. THE CONTRACTOR SHALL HAVE PROPERTY LINES AND EASEMENTS (EXISTING AND PROPOSED) LOCATED AND STAKED BY A LICENSED SURVEYOR PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A LICENSED SURVEYOR LAY OUT PROPOSED STRUCTURES, RETAINING WALLS, AND DITCH LINES; LAY OUT GRADE OR ALIGNMENT SENSITIVE CONSTRUCTION ITEMS; RELOCATE ANY PROPERTY BOUNDARY IRON PINS OR MONUMENTS THAT ARE DISTURBED DURING CONSTRUCTION; GENERATE STAMPED AS-BUILT DRAWING(S); REPLACEMENT OF DISTURBED IRON PINS AND/OR MONUMENTS; AND SUBMISSION OF STAMPED AS-BUILT DRAWING(S) BEFORE FINAL PAYMENT TO THE CONTRACTOR IS ISSUED. THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS, SEALED BY A LICENSED SURVEYOR IN ADOBE (PDF) FORMAT AND A DRAWING FILE IN AUTOCAD (DWG), VERSION 2016 (OR EARLIER) FORMAT. ALL WORK PERFORMED BY THE LICENSED SURVEYOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CONSTRUCTION STAKE, LINE, AND GRADE.

24. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH 29 CFR PART 1926, SUBPART P- EXCAVATIONS (LATEST EDITION).

25. ALL DRAINAGE STRUCTURES, BOX BRIDGES, BOX CULVERTS, RETAINING WALLS, AND OTHER MAJOR STRUCTURES SHALL BE DONE BY THE CAST-IN-PLACE METHOD. SHOULD THE CONTRACTOR ELECT TO USE PRE-CAST METHOD, THE CONTRACTOR SHALL BEAR ALL MODIFICATION/ADJUSTMENT/RELOCATION COSTS INCURRED FOR A COMPLETE INSTALLATION. THE GROUTING OF THE ANNULUS AROUND ALL PIPE PENETRATIONS SHALL BE AN INCIDENTAL COST.

26. ALL COSTS (INCLUDING LABOR, MATERIAL, EXCAVATION, INCIDENTALS, AND EQUIPMENT) NECESSARY TO PERFORM THE WORK AS SHOWN AND DESCRIBED IN THE DRAWINGS, STANDARD DETAILS, AND SPECIFICATIONS FOR WHICH A SEPARATE PAY ITEM IS NOT INCLUDED SHALL BE MERGED INTO PAY ITEMS SHOWN.

27. ALL MAJOR DRAINAGE STRUCTURES WILL REQUIRE QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION), PART 6, SECTION 604. A MAJOR DRAINAGE STRUCTURE, FOR THIS PURPOSE, WILL BE DEFINED AS ANY STRUCTURE REQUIRING REINFORCING STEEL. THIS WILL INCLUDE ALL BOX CULVERTS, SLAB BRIDGES, RETAINING WALLS, VERTICAL WALLED CHANNELS, INLETS, JUNCTION BOXES, AND HEADWALLS/ENDWALLS FOR PIPE DIAMETERS ≥ FORTY-EIGHT INCHES (48"). CONSTRUCTION ITEMS REQUIRING WELDED WIRE FABRIC, SUCH AS SIDEWALKS AND SWALES, WILL NOT REQUIRE QUALITY CONTROL FIELD TESTING. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR RETAINING AN APPROVED INDEPENDENT TESTING LABORATORY TO PERFORM ALL REQUIRED CONCRETE STRENGTH AND FIELD TESTING AND FOR SUBMITTING THE RESULTS OF SUCH TESTING TO THE CONSTRUCTION MANAGER.

28. ALL PRECAST DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH THE CURRENT TDOT SOP 5-3, MANUFACTURE AND ACCEPTANCE OF PRE-CAST DRAINAGE STRUCTURES, NOISE WALL PANELS, AND EARTH RETAINING WALL PRODUCTS FOR QUALITY AND ASSURANCE PURPOSES ONLY. NOTE THAT ALL PRE-CAST DRAINAGE STRUCTURES SHALL HAVE A "QC" STAMP OR ETCHING ON PRODUCT. ALL PRODUCTS USED SHALL BE ON THE CURRENT TDOT QUALIFIED PRODUCT LIST (QPL), LOCATED AT http://www.tn.gov/tdot/topic/qualified-products. THE PRODUCERS AND/OR SUPPLIERS SHALL BE ON THE CURRENT TDOT PRODUCER/SUPPLIER REPORT LOCATED AT https://www.tdot.tn.gov/applications/producersupplier.

29. TREE REMOVALS FOR LINEAR STORMWATER PROJECTS SHALL BE AT A TWO TO ONE REPLACEMENT RATIO. THIS POLICY WILL NOT APPLY TO THE REMOVAL OF TREES THAT ARE DEAD, DISEASED, INVASIVE, POTENTIALLY HAZARDOUS, BRADFORD PEAR (PYRUS CALLERYANA), OR ASH (FRAXINUS) SPECIES. TREES THAT CANNOT BE PLANTED NEAR THE REMOVAL SITE CAN BE PLANTED AT AN ALTERNATE LOCATION APPROVED BY MWS. HACKBERRIES WILL BE REPLACED ON A ONE TO ONE BASIS. REPLACEMENT TREES SHALL BE AT LEAST ONE INCH DIAMETER AT BREAST HEIGHT (DHB) AND SIX FEET IN HEIGHT FOR CANOPY SPECIES. DOWNWARD ADJUSTMENTS CAN BE MADE FOR UNDERSTORY AND ORNAMENTAL TREES. SUCH TREES SHOULD BE CHOSEN FROM THE URBAN FORESTRY RECOMMENDED LIST (https://www.nashville.gov/Codes/Land-Use-and-Zoning-Information/Urban-Forestry/Tree-and-Shrub-List) AND SHALL BE OF A FORM AND QUALITY SET OUT IN THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, LATEST EDITION).

NASHVILLE DEPARTMENT OF TRANSPORTATION GENERAL NOTES:

1. ALL ASPHALT ROADWAY REPAIRS SHALL INCLUDE FULL LANE WIDTH RESURFACING.

2. ALL ASPHALT ROADWAY REPAIRS SHALL UTILIZE A 2-FOOT CUTBACK ON ALL SIDES EXCEPT THE EDGE OF PAVEMENT.

3. NEW UTILITY CUTS WILL BE MILLED AND PAVED TO ANY EXISTING UTILITY CUT OR DAMAGED PAVEMENT WITHIN 10 FEET. IF THE EXISTING CUT OR DAMAGED PAVEMENT IS LESS THAN 10 FEET IN LENGTH, THE EXISTING CUT SHALL ALSO BE MILLED AND PAVED.

4. ASPHALT REPAIR GREATER THAN 24-INCHES, ADJACENT TO CURB & GUTTER ALONG A ROADWAY SHALL HAVE FULL LANE WIDTH PAVING.

5. FLOWABLE FILL IS REQUIRED ON ALL DOWNTOWN STREETS, COLLECTORS, AND ARTERIAL STREETS. FLOWABLE FILL MAY ALSO BE REQUIRED ON OTHER STREETS AT THE DISCRETION OF THE UTILITY INSPECTORS.

6. ALL REPAIRS WILL HAVE A 1-YEAR WARRANTY.

7. PERMIT OFFICE WILL NEED TO BE NOTIFIED WHEN REPAIRS ARE FINISHED TO START WARRANTY PERIOD.

8. SEE NDOT STANDARDS 270 THROUGH 275. IF ANY CUTS ARE MADE IN THE ROADWAY, THE UTILITY CUT GUIDELINES MUST BE FOLLOWED. UTILITY CUT GUIDELINES CAN BE FOUND IN THE PERMIT OFFICE OR AT WWW.MPW.NASHVILLE.GOV/IMS/PAVING/DOCUMENTS/APPENDIX_D.PDF.

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG
REVISION BLOCK	
DATE:	1-25-2024
DATE:	
DATE:	

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(615) 425 2000

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116771
STATE OF TENNESSEE
01/26/2024

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

8509 NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

GENERAL NOTES

SCALE: N.T.S.

NO BOUNDARY SURVEY WAS PERFORMED BY CONSOR ENGINEERS, LLC FOR THE PURPOSE OF THIS DRAWING. THIS SURVEY WAS DONE UNDER THE AUTHORITY OF T.C.A. 62-18-126 AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-07.

COORDINATE VALUES ARE NAD83(2011) WITH NO DATUM ADJUSTMENT, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

TREE REMOVAL TABLE		
SIZE	SPECIES	NO. OF TREES TO REPLACE
18"	ASH	0

LOCATION ID	SERVICE REQUEST NUMBER	ADDRESS	TYPE OF SERVICE REQUEST
1	1104040	8509 NEWSOM STATION ROAD	STREAM BANK EROSION

★ - SERVICE REQUEST PROPERTIES

Newsom Station Road (Project No. 24-SWC-109)
R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY ADDRESS	PROPERTY OWNER	COUNTY RECORDS					EASEMENTS	
			TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE	INSTRUMENT NO.	DRAINAGE (SF)	TEMPORARY CONSTRUCTION (SF)
1	8511 Newsom Station Road	The Wendy & Jerry Baker Revocable Trust	127-00	120	-	-	201509030090090	400	3100

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	Description
UTILILY POLE	641047.6000	1676062.0100	538.440	XCP	BENCH TIE
CP-S2	640837.8400	1675812.3700	544.720	XCP	MAG NAIL
CP-S3	641080.0100	1676209.5600	536.660	XCP	MAG NAIL

LEGEND

- Control Point
- Benchmark
- EIP — Iron Pin
- W.M. — Water Meter
- MB — Mailbox
- ASPH. — Asphalt
- Single Tree
- W — Water Line
- G — Gas Line
- Edge of Pavement
- Driveway
- Property Line
- Right-of-Way Line
- Easement Line
- 650 — Major Contour Line
- 649 — Minor Contour Line

8504 NEWSOM STATION RD
METRO GOV'T WW WATER & SEWER.
INSTR. #20120103 0000342

PROJECT BENCHMARK
BENCH TIE IN UTILITY POLE
ELEVATION: 538.44'

TN GNSS

Parcel ID: 12700011100
8411 HIGHWAY 70
HENDERSON, JOE D. ETUX.
DB 5153 PG 805

Parcel ID: 12700012000
8511 NEWSOM STATION RD
WENDY & JERRY BAKER REVOCABLE TRUST, THE
INSTR. #20150903 0090090

Parcel ID: 12700012100
8509 NEWSOM STATION RD
BERLIN, MARY R. ET VIR
DB 9095 PG 933

TOP OF BANK
CREEK
WOODED
GRASS
ASPH.
NEWSOM STATION RD (ASPH.)
INV: 527.79'
54" X 36" CMP
6" CI
12" DI
3E/2T/1C
CP-S1
EIP
W.V.
REMOVE 47 LF OF EXISTING 54" X 36" CMP
MCI
REMOVE TREE AS NEEDED
18" ASH CLUSTER
REMOVE HEADWALL
INV: 530.64'
@ END WALL
TRENCH LIMITS
(SAW CUT)
MILLING & PAVING LIMITS
PERMANENT DRAINAGE EASEMENT
(10'x40')
TEMPORARY CONSTRUCTION EASEMENT
(62'x50')
AGGREGATE
10'

10' 0 5' 10' 15' 20'
SCALE: 1"=10'

Know what's below. Call before you dig.

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
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REVISION BLOCK	
DATE:	1-25-2024
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101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(615)-425-2000

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
No. 116171
STATE OF TENNESSEE
01/26/2024

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

PRESENT LAYOUT AND DEMOLITION PLAN

SCALE: 1" = 10'

SHEET 03 OF 09

STORM SEWER SCHEDULE						
TYPE	FROM	TO	LENGTH (ft)	UPSTREAM INVERT (ft)	DOWNSTREAM INVERT (ft)	SLOPE
14' x 5' BOX CULVERT	INLET	OUTLET	40.00	529.82	528.22	4.00%

LOCATION ID	SERVICE REQUEST NUMBER	ADDRESS	TYPE OF SERVICE REQUEST
1	1104040	8509 NEWSOM STATION ROAD	STREAM BANK EROSION

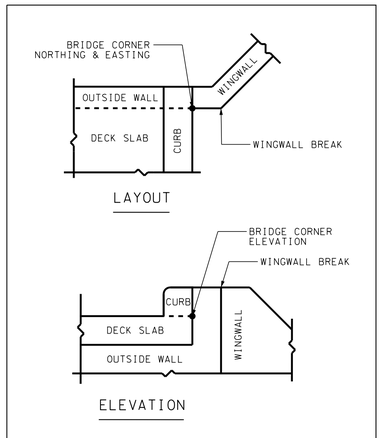
★ - SERVICE REQUEST PROPERTIES

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	Description
UTILILY POLE	641047.6000	1676062.0100	538.440	XCP	BENCH TIE
CP-S2	640837.8400	1675812.3700	544.720	XCP	MAG NAIL
CP-S3	641080.0100	1676209.5600	536.660	XCP	MAG NAIL

POINT	LOCATION	NORTHING	EASTING	ELEVATION
1	NW WINGWALL CORNER	640,966.64	1,675,933.77	532.47
2	NW WINGWALL BREAK	640,964.68	1,675,942.74	535.30
3	NW BRIDGE CORNER	640,963.84	1,675,943.28	534.30
4	NE BRIDGE CORNER	640,971.40	1,675,955.07	534.30
5	NE WINGWALL BREAK	640,972.24	1,675,954.53	535.30
6	NE WINGWALL CORNER	640,981.28	1,675,956.50	532.47
7	SE WINGWALL CORNER	640,934.94	1,675,986.20	534.07
8	SE WINGWALL BREAK	640,936.90	1,675,977.22	536.90
9	SE BRIDGE CORNER	640,937.74	1,675,976.68	535.90
10	SW BRIDGE CORNER	640,930.18	1,675,964.90	535.90
11	SW WINGWALL BREAK	640,929.33	1,675,965.44	536.90
12	SW WINGWALL CORNER	640,920.30	1,675,963.47	534.07

WINGWALL	ANGLE	LENGTH (ft)
NW WINGWALL	45°	9.25
NE WINGWALL	45°	9.25
SW WINGWALL	45°	9.25
SE WINGWALL	45°	9.25

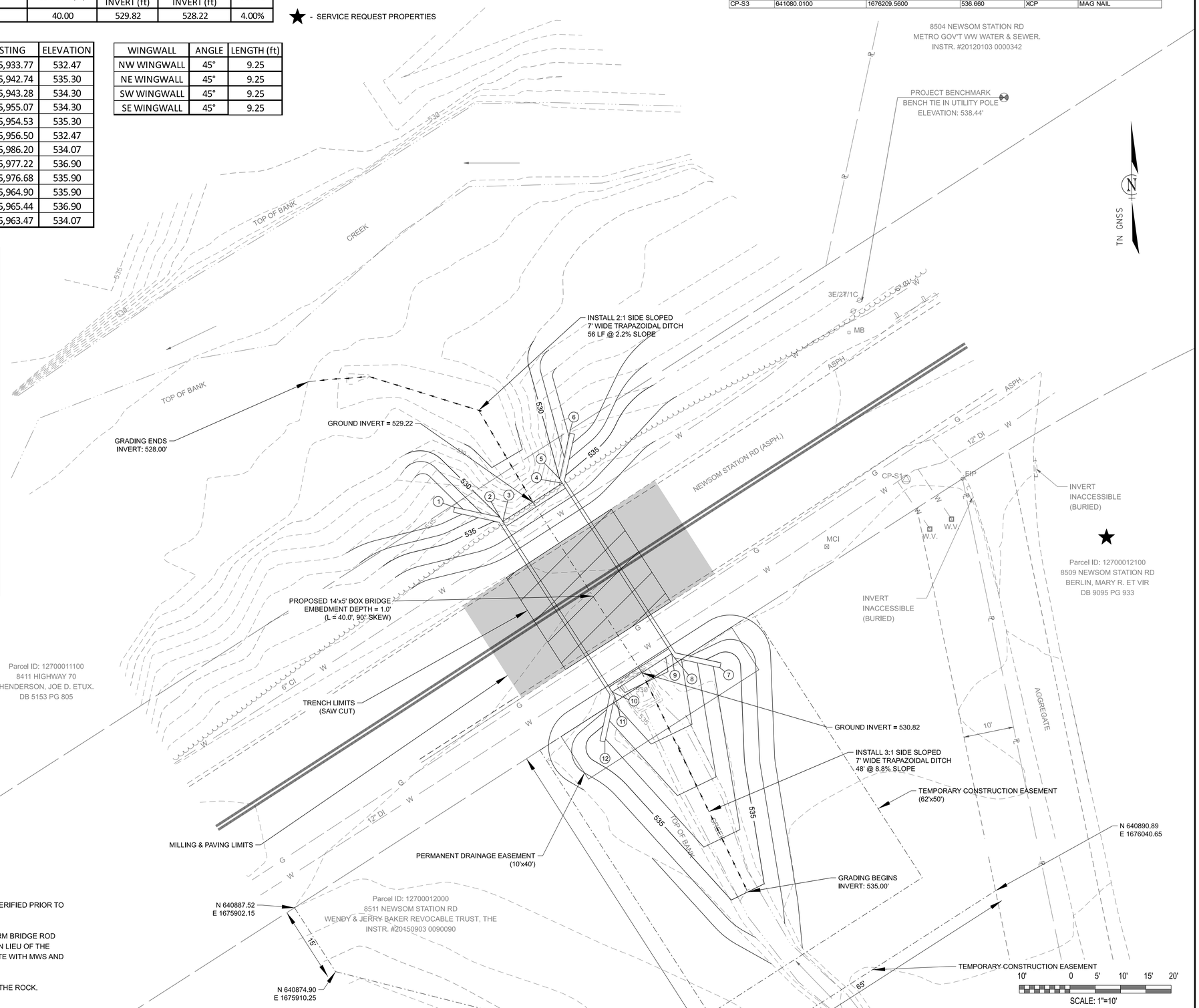


NOTES:

BRIDGE CORNER NORTHINGS, EASTINGS, AND ELEVATIONS SHOWN IN THESE PLANS ARE AT THE POINTS AS SHOWN IN THE ABOVE DRAWINGS.

LEGEND

- Control Point
- Benchmark
- EIP — Iron Pin
- W.M. — Water Meter
- MB — Mailbox
- ASPH.
- Single Tree
- W — Water Line
- G — Gas Line
- Edge of Pavement
- Driveway
- Property Line
- Right-of-Way Line
- Easement Line
- 650 — Major Contour Line
- 649 — Minor Contour Line



NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PERFORM BRIDGE ROD SOUNDINGS TO DETERMINE IF A SLAB BRIDGE MAY BE USED IN LIEU OF THE SUNKEN BOX CULVERT. THE CONTRACTOR SHALL COORDINATE WITH MWS AND THE ENGINEER FOR THE FINAL DECISION.
3. IF A SLAB BRIDGE IS USED, FOOTINGS SHALL BE CARRIED TO THE ROCK.

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG

REVISION BLOCK

DATE:	1-25-2024
DATE:	3-27-2024
DATE:	08-29-2025

08-29-2025: LOWERED BOX BRIDGE INVERTS AND ALL ASSOCIATED ELEVATIONS. UPSTREAM AND DOWNSTREAM CHANNEL REVISED.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116174
STATE OF TENNESSEE
08/29/2025

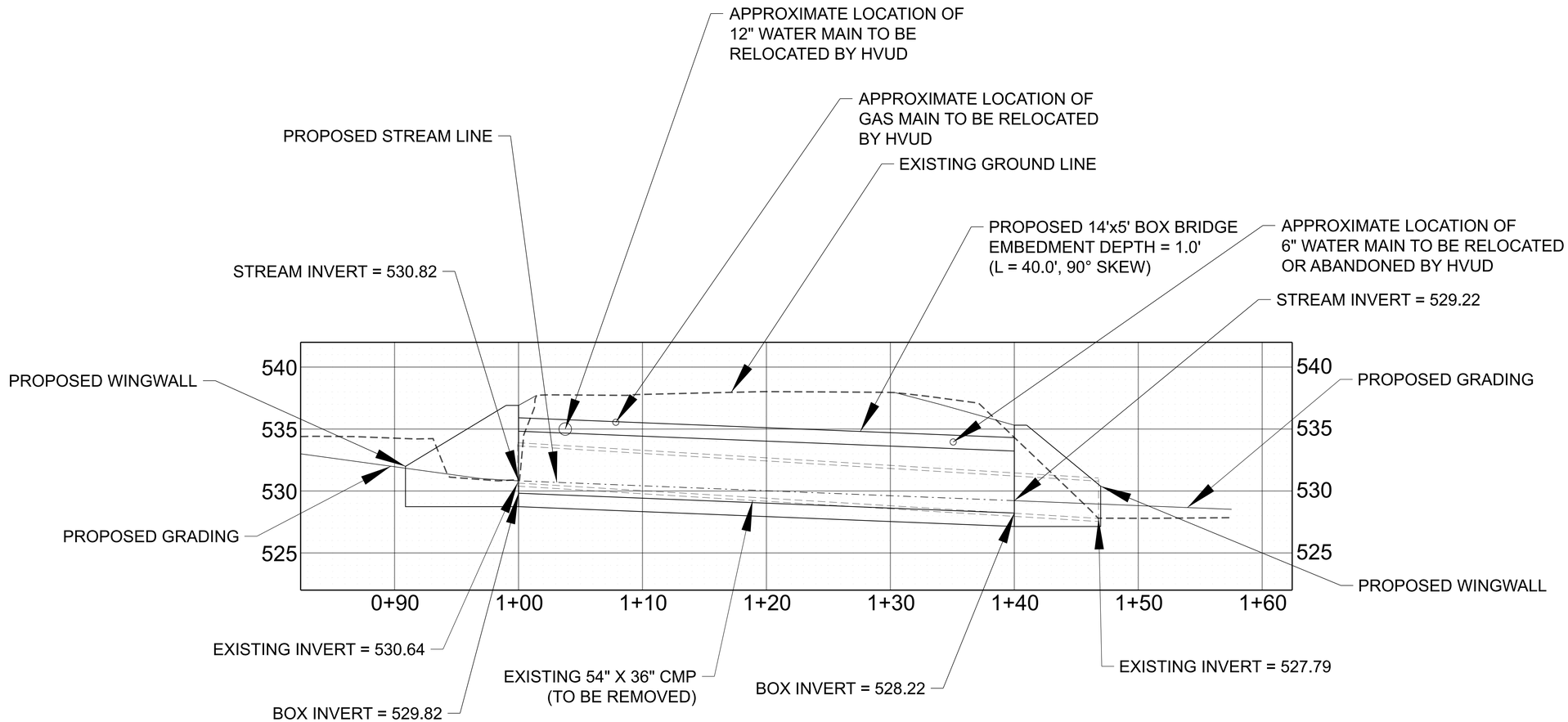
METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

PROPOSED LAYOUT

SCALE: 1" = 10'

SHEET 04 OF 09



FILE NO.	NEWSOM STATION ROAD
DATE:	1-25-2024
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG

REVISION BLOCK

DATE:	08-29-2025
DATE:	
DATE:	

08-29-2025: BOX BRIDGE INVERTS LOWERED 1 FT.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116713
STATE OF TENNESSEE

08/29/2025

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

PROPOSED PROFILE

SHEET 04A OF 09

EROSION PREVENTION & SEDIMENT CONTROL (E.P.S.C.) NOTES:

1. THE USE AND PLACEMENT OF EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH METRO WATER SERVICES BEST MANAGEMENT PRACTICES, LATEST EDITION, AND/OR APPLICABLE TDEC ARAP, USACE NWP, AND/OR TDOT STANDARDS. THE MOST STRINGENT PRACTICE SHALL GOVERN.

2. NO WORK WILL BE INITIATED ON THE PROJECT UNTIL THE EROSION/ SILTATION MEASURE SHOWN ON THE PLANS AND DETAILS ARE PROPERLY IN PLACE.

3. IF, AT ANY TIME DURING THE CONSTRUCTION PHASE OF THIS PROJECT, METRO REPRESENTATIVE DEEMS THAT THE EROSION/SILTATION MEASURES INSTALLED FAIL TO FUNCTION PROPERLY, NEED MAINTENANCE OR REPAIR, OR NEED NEW REPLACEMENT IN KIND, THE CONTRACTOR WILL EFFECT SUCH ACTIONS AS ARE NEEDED TO CORRECT THE SITUATION AT NO ADDITIONAL COST TO THE OWNER. NECESSARY REPAIRS OR REPLACEMENT OF EPSC MEASURES SHALL BE ACCOMPLISHED PROMPTLY. WHEN NOTIFIED OF DEFICIENT EPSC MEASURES, THE CONTRACTR HAS 48 HOURS OR BEFORE THE NEXT RAIN EVENT TO REGAIN COMPLIANCE OR OTHERWISE RUN THE RISK OF THE JOB BEING SHUTDOWN. NO ADDITIONAL CONTRACT DAYS WILL BE GIVEN IN THIS INSTANCE.

4. AREAS AND TIME OF EXPOSURE OF UNPROTECTED SOILS SHALL BE KEPT TO A MAXIMUM OF 15 DAYS.

5. USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.

6. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE METHODS.

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

8. UPON STABILIZATION OF THE PROJECT SITE WITH A GOOD (ACCEPTABLE) STAND OF GRASS AND/OR GROUND COVER, THE EROSION/SILTATION INSTALLATIONS WILL BE REMOVED AND THE AREA DISTURBED WILL BE SEEDED AND MULCHED WITH THE SAME TREATMENT AS OTHER NEW GRASSED AREAS OF THE PROJECT. INCLUDE COSTS OF REMOVAL OF ESC MEASURES IN OTHER ITEMS.

9. ALL ESC MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL RAIN EVENTS, AND DAILY DURING PROLONGED RAINFALL, TO ENSURE MEASURES ARE WORKING PROPERLY.

10. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

11. AS NECESSARY, PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.

12. STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE. UPON COMPLETION OF GENERAL GRADING COVER ALL DISTURBED AREAS WITH TOPSOIL, TO A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUPPLY ADDITIONAL TOPSOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE. ADDITIONAL TOPSOIL SHALL BE PAID FOR UNDER ITEM 203-08.01 "FURNISHING AND SPREADING TOPSOIL (4"THICK)" IN SQUARE YARDS.

13. ALL ESC MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.

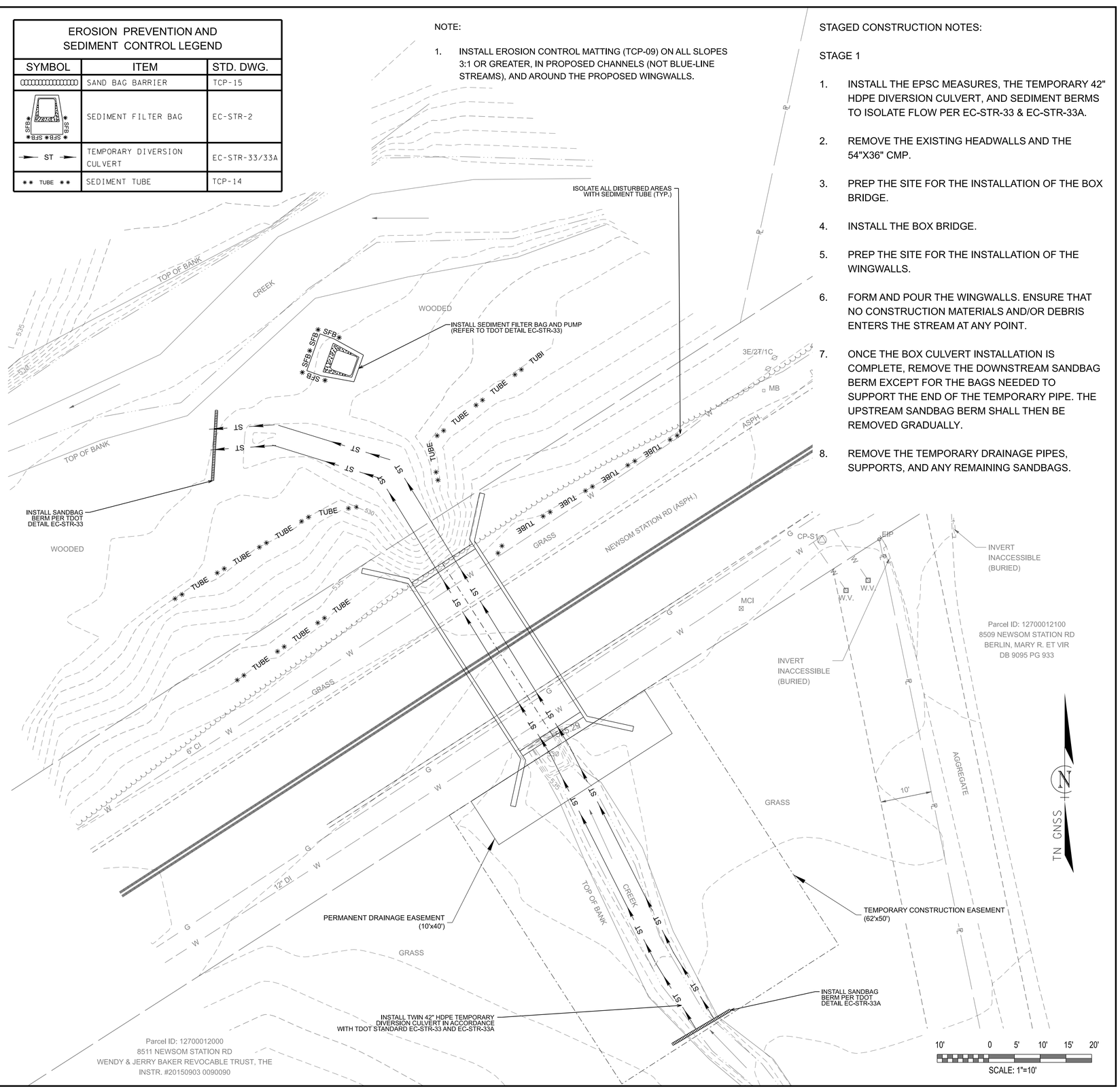
14. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	SAND BAG BARRIER	TCP-15
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
ST	TEMPORARY DIVERSION CULVERT	EC-STR-33/33A
** TUBE **	SEDIMENT TUBE	TCP-14

NOTE:

1. INSTALL EROSION CONTROL MATTING (TCP-09) ON ALL SLOPES 3:1 OR GREATER, IN PROPOSED CHANNELS (NOT BLUE-LINE STREAMS), AND AROUND THE PROPOSED WINGWALLS.



STAGED CONSTRUCTION NOTES:

STAGE 1

1. INSTALL THE EPSC MEASURES, THE TEMPORARY 42" HDPE DIVERSION CULVERT, AND SEDIMENT BERMS TO ISOLATE FLOW PER EC-STR-33 & EC-STR-33A.

2. REMOVE THE EXISTING HEADWALLS AND THE 54"X36" CMP.

3. PREP THE SITE FOR THE INSTALLATION OF THE BOX BRIDGE.

4. INSTALL THE BOX BRIDGE.

5. PREP THE SITE FOR THE INSTALLATION OF THE WINGWALLS.

6. FORM AND POUR THE WINGWALLS. ENSURE THAT NO CONSTRUCTION MATERIALS AND/OR DEBRIS ENTERS THE STREAM AT ANY POINT.

7. ONCE THE BOX CULVERT INSTALLATION IS COMPLETE, REMOVE THE DOWNSTREAM SANDBAG BERM EXCEPT FOR THE BAGS NEEDED TO SUPPORT THE END OF THE TEMPORARY PIPE. THE UPSTREAM SANDBAG BERM SHALL THEN BE REMOVED GRADUALLY.

8. REMOVE THE TEMPORARY DRAINAGE PIPES, SUPPORTS, AND ANY REMAINING SANDBAGS.

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG
REVISION BLOCK	
DATE:	1-25-2024
DATE:	07-17-2025
DATE:	

07-17-2025: UPDATED STAGED CONSTRUCTION NOTES AND TEMPORARY DIVERSION NOTES.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

JOSEPH S. BADTRAM — REGISTERED ENGINEER — AGRICULTURE — COMMERCE — No. 0116290 — STATE OF TENNESSEE — 7/18/2025

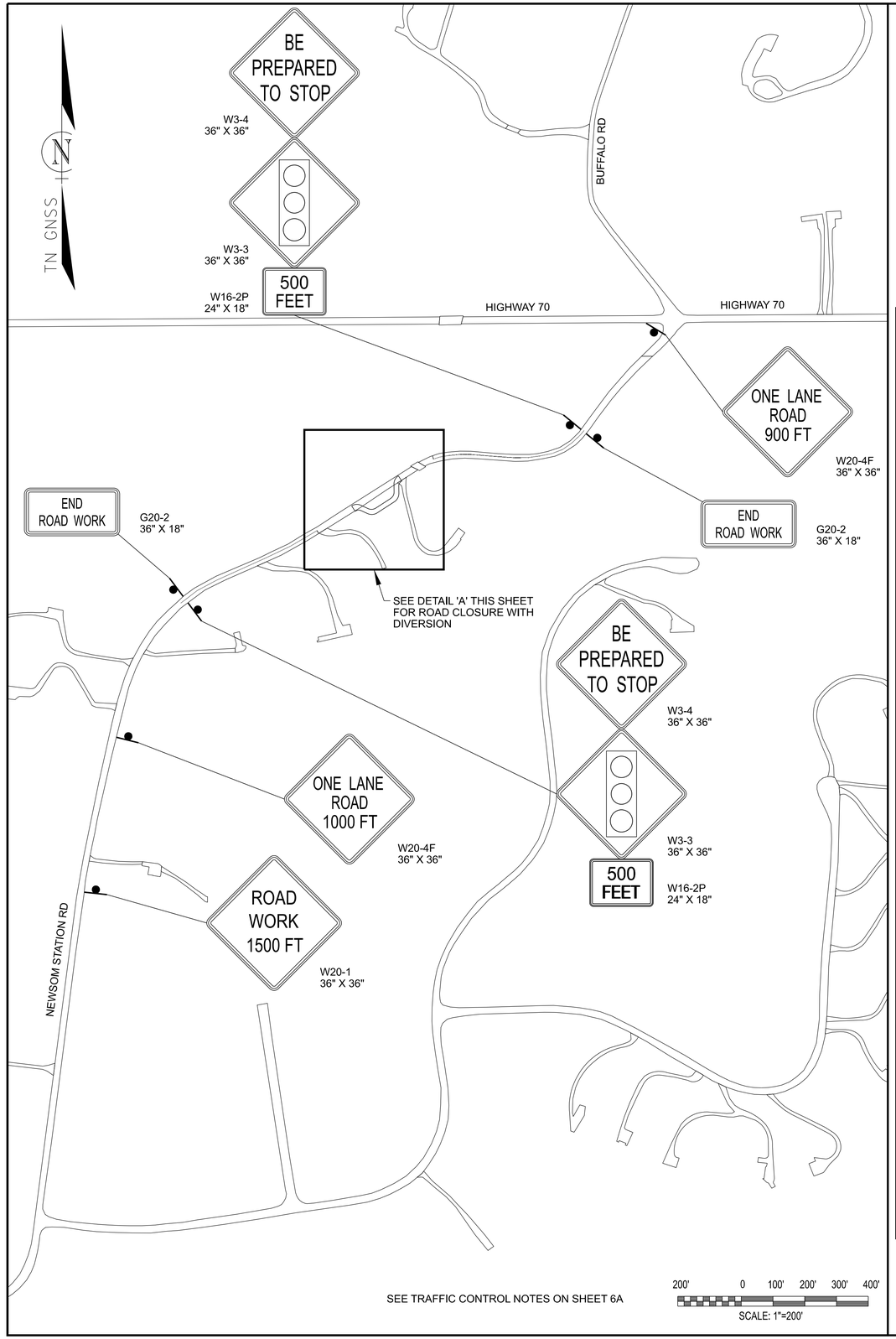
METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

EPSC LAYOUT

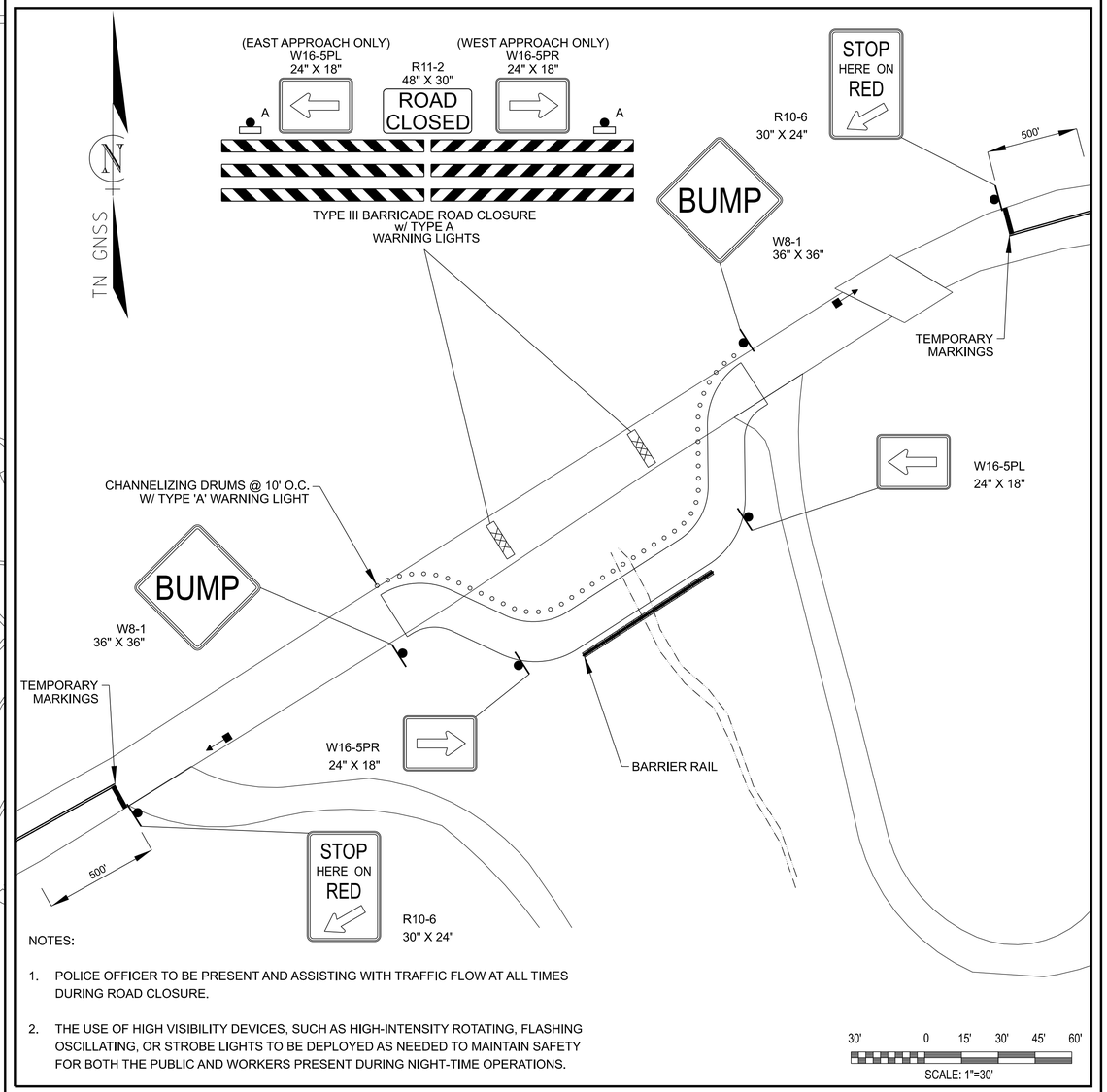
SCALE: 1" = 10'

SHEET 05 OF 09



SEE TRAFFIC CONTROL NOTES ON SHEET 6A

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)
	CHANNELIZING DRUMS
	TEMPORARY TRAFFIC SIGNAL
	PORTABLE BARRIER RAIL



NOTES:

1. POLICE OFFICER TO BE PRESENT AND ASSISTING WITH TRAFFIC FLOW AT ALL TIMES DURING ROAD CLOSURE.
2. THE USE OF HIGH VISIBILITY DEVICES, SUCH AS HIGH-INTENSITY ROTATING, FLASHING OSCILLATING, OR STROBE LIGHTS TO BE DEPLOYED AS NEEDED TO MAINTAIN SAFETY FOR BOTH THE PUBLIC AND WORKERS PRESENT DURING NIGHT-TIME OPERATIONS.

DETAIL 'A'
ROAD CLOSURE WITH DIVERSION
1" = 30'

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG

REVISION BLOCK

DATE:	07-17-2025
DATE:	08-29-2025
DATE:	

07-17-2025: REVISION OF FULL TRAFFIC CONTROL LAYOUT.

08-29-2025: REVISED FLAGGER LAYOUT TO TEMPORARY SIGNAL.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

JOSEPH S BADICK
REGISTERED ENGINEER
AGRICULTURE
No. 0116290
STATE OF TENNESSEE
8/29/2025

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

TRAFFIC CONTROL PLAN

SCALE: 1" = 200'

SHEET 06 OF 09

TRAFFIC CONTROL NOTES

MISCELLANEOUS

(1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

(2) ALL CONSTRUCTION, EQUIPMENT, AND INSTALLATION PROCEDURES SHALL COMPLY WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (AS AMENDED) AND WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF METRO NASHVILLE DEPARTMENT OF TRANSPORTATION. PAVEMENT MARKING REMOVAL AND TRAFFIC CONTROL SHALL COMPLY WITH SECTION 712-TEMPORARY TRAFFIC CONTROL.

(3) ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD, FEDERAL REGISTER 36 CFR PARTS 1190 AND 1191, ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES, PROPOSED RULE. PUBLISHED IN THE FEDERAL REGISTER ON JULY 23, 2004, AS HAS BEEN ADOPTED BY METRO NASHVILLE DEPARTMENT OF TRANSPORTATION.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

(2) EXCAVATION AND LANE CLOSURE PERMITS ARE REQUIRED FOR ALL WORK DONE WITHIN THE PUBLIC RIGHT OF WAY.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

(9) CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL LOCAL TRAFFIC THROUGHOUT CONSTRUCTION.

(10) ALL SIGNS, BARRICADES, LIGHTS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN ORDER TO PROVIDE FOR PUBLIC SAFETY AT ALL TIMES.

FILE NO.	NEWSOM STATION ROAD
DATE:	07-17-2025
DESIGNED BY:	JPP
DRAWN BY:	JPP
CHECKED BY:	JSB

REVISION BLOCK

DATE:	07-17-2025
DATE:	
DATE:	

07-17-2025: SHEET ADDED TO PLANSET.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

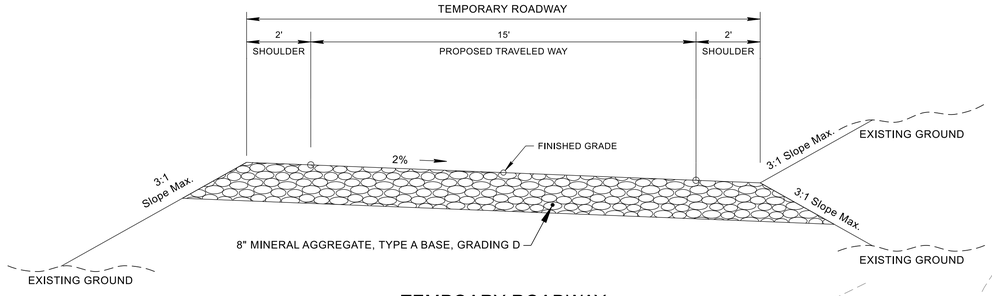
JOSEPH S. BADYNA
REGISTERED ENGINEER
AGRICULTURE
No. 0116290
STATE OF TENNESSEE
7/18/2025

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

TRAFFIC CONTROL NOTES

SCALE: N.T.S.



TEMPOARY ROADWAY TYPICAL SECTION

FROM STA. 01+30.44 TO STA. 02+98.52
N.T.S.

BEGIN CONST.
STA. 1+30.44
SEE TEMPORARY ROADWAY TYPICAL SECTION

END CONST.
STA. 2+98.52

PROJECT BENCHMARK
BENCH TIE IN UTILITY POLE
ELEVATION: 538.44'

TN GNSS

MoT
CURVE 1
PI 1+20.86
N 640908.0444
E 1675894.8084
Δ 57°38'15" RT.
D 254°38'52"
R 22.50'
L 22.63'
T 12.38'
LC 21.69'
BC N86°11'07.1"E

MoT
CURVE 2
PI 1+71.24
N 640885.8523
E 1675942.3908
Δ 57°51'35" LT.
D 254°38'52"
R 22.50'
L 22.72'
T 12.44'
LC 21.77'
BC N86°04'26.9"E

MoT
CURVE 3
PI 2+60.14
N 640935.2494
E 1676018.8765
Δ 57°51'35" LT.
D 254°38'52"
R 22.50'
L 22.72'
T 12.44'
LC 21.77'
BC N28°12'51.9"E

MoT
CURVE 4
PI 3+10.40
N 640987.6531
E 1676018.2221
Δ 57°38'15" RT.
D 254°38'52"
R 22.50'
L 22.63'
T 12.38'
LC 21.69'
BC N28°06'11.7"E

Parcel ID: 12700011100
8411 HIGHWAY 70
HENDERSON, JOE D. ETUX.
DB 5153 PG 805

Parcel ID: 12700012100
8509 NEWSOM STATION RD
BERLIN, MARY R. ET VIR
DB 9095 PG 933

Parcel ID: 12700012000
8511 NEWSOM STATION RD
WENDY & JERRY BAKER REVOCABLE TRUST, THE
INSTR. #20150903 0090090

NEWSOM STATION RD (ASPH.)

PC STA. 1+09.48
N 640901.37
E 1675884.38

PC STA. 1+90.00
N 640866.79
E 1675917.24

PT STA. 1+31.12
N 640918.81
E 1675908.03

PC STA. 2+98.02
N 640975.28
E 1676018.38

PT STA. 3+28.01
N 640988.42
E 1676034.76

PT STA. 3+20.65
N 640984.41
E 1676026.59

PT STA. 1+58.81
N 640891.11
E 1675931.12

PT STA. 1+81.53
N 640874.90
E 1675902.84

PC STA. 2+47.71
N 640908.93
E 1676000.43

PT STA. 2+70.43
N 640947.68
E 1676018.72

N 640887.52
E 1675902.15

N 640874.90
E 1675910.25

N 640855.77
E 1675985.95

N 640890.89
E 1676040.65

TWIN 42" HDPE
TOP 536.75
INV. 532.98

TWIN 42" HDPE
TOP 537.76
INV. 533.99
PROVIDE MIN. 1' VERTICAL CLEARANCE BETWEEN TOP OF PIPE AND BOTTOM OF MINERAL AGG.

INVERT INACCESSIBLE (BURIED)

INVERT INACCESSIBLE (BURIED)

TEMPORARY CONSTRUCTION EASEMENT (62'x50')

TEMPORARY CONSTRUCTION EASEMENT

R=17'
R=26'
R=32'
R=15'

N56°55'19"E
S64°59'46"E
N57°22'00"E
N57°08'39"E

NOTE:
TEMPORARY CONSTRUCTION EASEMENT AREA SHOWN ON THIS SHEET IS INCLUDED FOR THE CONSTRUCTION AND USE OF THE TEMPORARY ROAD FOR TRAFFIC OPERATIONS.

Newsom Station Road (Project No. 24-SWC-109)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY ADDRESS	PROPERTY OWNER	COUNTY RECORDS					EASEMENTS	
			TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE	INSTRUMENT NO.	DRAINAGE (SF)	TEMPORARY CONSTRUCTION (SF)
1	8511 Newsom Station Road	The Wendy & Jerry Baker Revocable Trust	127-00	120	-	-	20150903090090		4901

10' 0 5' 10' 15' 20'
SCALE: 1"=10'

FILE NO.	NEWSOM STATION ROAD
DATE:	07-17-2025
DESIGNED BY:	JPP
DRAWN BY:	JPP
CHECKED BY:	JSB

REVISION BLOCK

DATE:	07-17-2025
DATE:	
DATE:	

07-17-2025: SHEET ADDED TO PLANSET.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

JOSEPH S. BADER
REGISTERED ENGINEER
AGRICULTURE
No. 0116230
STATE OF TENNESSEE
7/18/2025

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

TEMPORARY ROADWAY LAYOUT

SCALE: 1" = 10'

SHEET 06B OF 09

GENERAL NOTES:

1. All water and sewer construction shall conform to the current standard specifications and details of the Harpeth Valley Utilities District (HVUD).

2. The Contractor shall obtain and comply with all necessary standards and permits from any federal, state, and/or local authority having jurisdiction over any phase of construction associated with the project.

3. The types and locations of existing utilities shown on the drawings are approximate and shall be independently verified by the Contractor. The Contractor shall be responsible for the location and preserving existing utilities prior to and during construction. Repairs or replacements to any HVUD utility damaged by construction activities shall be the responsibility of the Contractor with no additional payment allowed.

4. The Contractor shall bring to the attention of HVUD and document any pre-existing damage or conditions prior to beginning work. Repairs or replacements to any items damaged by water and sewer construction activities shall be the responsibility of the Contractor with no additional payment allowed.

5. Maintain proper vertical and horizontal separation between water and sanitary sewer mains. For more information, see TDEC Design Criteria for Sewage Works Section 2.4.1.2 Relation to Water Mains & Community Public Water Systems Design Critera Section 9.2 Separation of Water Mains and Sewers. When a conflict exists and proper separation is not attainable, the Contractor shall coordinate with HVUD for the necessary measures to ensure system integrity.

6. The Contractor shall verify the size and material for each water service line and reconnect all live water services, whether indicated on the drawing or not, per HVUD.

7. Water service lines 2-1/2 inches in diameter and smaller shall be replaced from the water main to the meter with copper.

8. Water service lines greater than 2-1/2 inches in diameter shall be replaced from the water main to the property line valve or meter with ductile iron pipe.

9. Contact HVUD if lead services are discovered. The Contractor shall follow the current HVUD lead service replacement procedure. This may cause some delays and additional coordination. Replacement of lead service lines requires an additional sampling protocol that will delay the replacement of the service line until the protocol can be coordinated with the customer.

10. When existing meter boxes require adjusting and/or relocating, water meters and shutoffs shall be a minimum of 24" not to exceed a maximum of 32" below finished grade.

11. The Contractor is responsible for notifying HVUD Inspection personnel prior to any work or connections being conducted on the HVUD System.

12. The Contractor shall not operate any valves on the existing water system and/or water mains placed in service without prior approval and only under the supervision of HVUD. Operating valves shall be scheduled in writing by the Contractor and must be approved in advance by HVUD.

13. Harpeth Valley Utilities District will make every reasonable effort to isolate and shut down the flow of water when required for the work; however, there may be circumstances that prevent timely water shut downs such as: faulty valves, water main breaks, lack of forces due to higher priority situations, etc. The cost for Contractor standby time due to these types of delays is considered incidental and should be incorporated into the price of other bid items with no additional payment allowed.

14. The Contractor shall not make connections to the existing water system until applicable tests, including: disinfection, hydrostatic, etc., have been performed and reported to HVUD and found to be in compliance. Reduced Pressure Backflow Prevention Devices (RPBP) or dual check valves will be required on all test and fill lines needed for water main construction and must be approved by HVUD.

15. All pipe, pipe fittings, plumbing fittings, and fixtures including, but not limited to, coated or uncoated brass or bronze materials that could come in contact with drinking water shall be in accordance with the 2011 reduction of lead in drinking water act that amends the Safe Drinking Water Act, Section 1417 effective January 4, 2014. The following internet link provides further clarification and direction on the requirement: http://nepis.epa.gov/adobe/pdf/p100grdz.pdf.

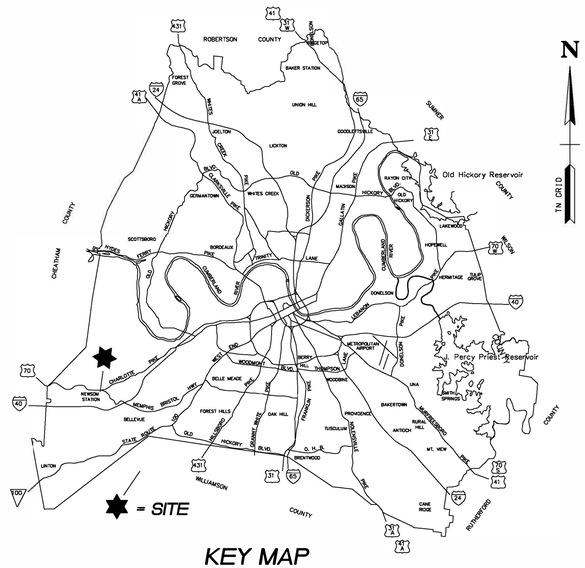
16. If a water main, or other HVUD system component, requires relocation or addition and is not indicated on the approved drawings, the Contractor shall notify HVUD immediately. Prior to relocation, the drawings shall require: modification depicting the relocation, approval from a registered professional engineer and the appropriate regulatory agencies, and a HVUD based project number assigned.

17. If a water service line is disconnected, the proper HVUD disinfection protocol shall be implemented prior to the service line being reconnected to the existing water system.

18. No discharge of wastewater or debris shall be released to the environment. Should the Contractor's actions cause an overflow or bypass of wastewater to the environment, site cleanup will be the responsibility of the Contractor consistent with MWS' Spill and Overflow Response Plan.

19. Prior to implementing the plugging of any line, bypass pumping, or similar actions, the Contractor shall provide a detailed plan of approach to HVUD for review and comment. HVUD approval of any such plan does not relieve the contractor of the responsibility for the adequacy of the plan or proper execution.

20. The Contractor shall complete all work in full compliance with the Metro Stormwater Management Regulations, so as to create no stormwater quality or quantity compliance issues. Illicit discharges of pollutants, either direct or indirect, to a storm sewer, stormwater conveyance, or stream within Metro Nashville Davidson County are prohibited, per Metro ordinance 15.64.205 (Non-Stormwater Discharges).



KEY MAP

UTILITY OWNERS

WATER & SANITARY SEWER: HARPETH VALLEY UTILITIES DISTRICT 5838 RIVER ROAD NASHVILLE, TN 37209 CONTACT PERSON: JARED WILLIAMS, PE (615) 354-8597 jwilliams@hvud.com	INSPECTION: HARPETH VALLEY UTILITIES DISTRICT 5838 RIVER ROAD NASHVILLE, TN 37208 CONTACT PERSON: BUTCH LAMPLEY (615) 352-7076 blampley@hvud.com	STORM WATER: METRO WATER & SEWER 1600 2nd AVENUE NORTH NASHVILLE, TN 37208 CONTACT PERSON: RICKY SWIFT (615) 862-4784 ricky.swift@nashville.gov	STREETS: NASHVILLE DEPT. OF TRANSPORTATION 740 SOUTH 5TH STREET NASHVILLE, TN 37206 CONTACT PERSON: MIKE DAVIS (615) 862-8760 mike.davis@nashville.gov	NASHVILLE DEPT. OF TRANSPORTATION: 750 SOUTH 5TH STREET NASHVILLE, TN 37206 CONTACT PERSON: RORY ROWAN (615) 862-8782 rory.rowan@nashville.gov	ADA: ADA COMPLIANCE DIVISION 730 2ND AVE S NASHVILLE, TN 37210 CONTACT PERSON: JERRY HALL (615) 862-8744 jerry.hall@nashville.gov
TELEPHONE: AT&T 333 COMMERCE ST., 23RD FLOOR NASHVILLE, TN 37201 CONTACT PERSON: WILL DAVENPORT (615) 801-6960 wd5635@att.com	ELECTRIC: NASHVILLE ELECTRIC SERVICE 1214 CHURCH STREET NASHVILLE, TN 37203 CONTACT PERSON: JON SIPES (615) 747-2530 jsipes@nespower.com	GAS: PIEDMONT GAS 83 CENTURY BLVD NASHVILLE, TN 37214 CONTACT PERSON: DON LAMONT NEVILS (615) 335-7929 don.nevils@duke-energy.com	CABLE: COMCAST 660 MAINSTREAM DRIVE NASHVILLE, TN 37228 CONTACT PERSON: GARY MCKINNEY (615) 244-7462 EXT. 1115332 NAS-NashvilleConstructionBetterments@comcast.com	FIBER: GOOGLE FIBER 1101 MCGAVOCK STREET, STE 200 NASHVILLE, TN 37203 CONTACT PERSON: RICK BOLTON (629) 888-2258 gfiber-bna-relocations@google.com	TELECOMMUNICATIONS: VERIZON 101 MOLLOY STREET NASHVILLE, TN 37201 CONTACT PERSON: DEREK DEE (615) 919-5470 derek.r.dee@verizon.com

MWS PROJECT NUMBER:
24-SWC-109

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG
REVISION BLOCK	
DATE:	
DATE:	
DATE:	

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(615)-425-2000

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116713
STATE OF TENNESSEE
01/08/2024

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

UTILITY NOTES AND DETAILS

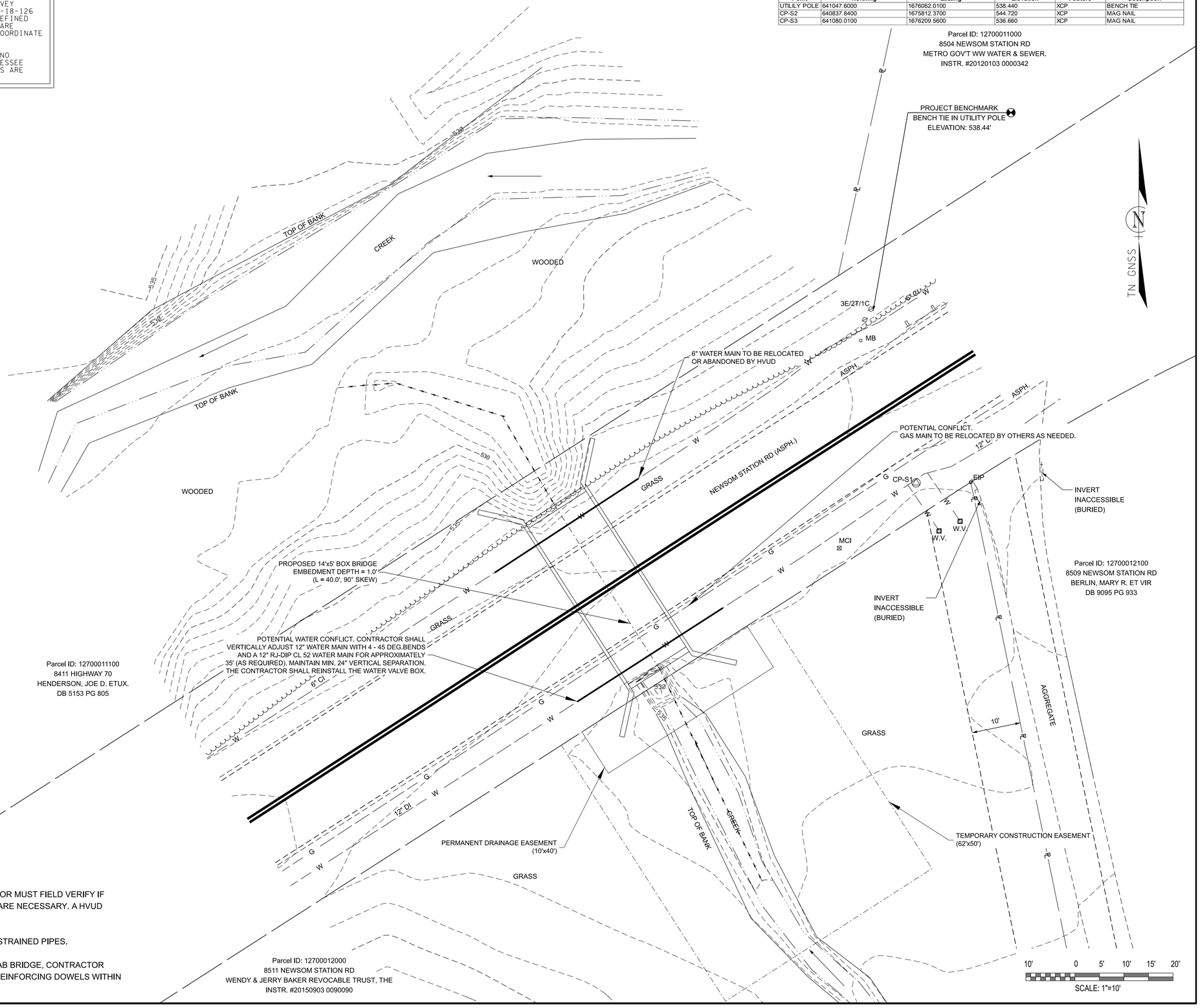
SCALE: N.T.S.

NO BOUNDARY SURVEY WAS PERFORMED BY CONSOR ENG. FOR THE PURPOSE OF THIS DRAWING. THIS SURVEY WAS DONE UNDER THE AUTHORITY OF T.C.A. 62-18-126 AND IS NOT A GENERAL PROPERTY SURVEY AS DEFINED UNDER RULE 0820-3-07. ANY BEARINGS SHOWN ARE REFERENCED TO THE TENNESSEE STATE PLANE COORDINATE SYSTEM.

COORDINATE VALUES ARE NAD/83 (2011) WITH NO DATUM ADJUSTMENT,AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

CONTROL POINTS

Point	Northing	Easting	Elevation	Feature	Description
UTILILY POLE	641047.6000	1676062.0100	538.440	XCP	BENCH TIE
CP-S2	640837.8400	1675812.3700	544.720	XCP	MAG NAIL
CP-S3	641080.0100	1676209.5600	536.660	XCP	MAG NAIL



UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST FIELD VERIFY IF PROPOSED WATER/SEWER ADJUSTMENTS ARE NECESSARY. A HVUD REPRESENTATIVE MUST BE PRESENT.
2. PROVIDE THRUST COLLARS FOR ALL UNRESTRAINED PIPES.
3. IF THE BOX CULVERT IS INSTALLED AS A SLAB BRIDGE, CONTRACTOR SHALL NOT INSTALL SLAB CULVERT ROCK REINFORCING DOWELS WITHIN THE UTILITY TRENCH.

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG
REVISION BLOCK	
DATE:	1-25-2024
DATE:	
DATE:	

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(615)-425-2000

SEALED BY

DOUGLAS W. GUTMAN
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
No. 116133
01/26/2024

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

UTILITY LAYOUT

SCALE: 1" = 10'

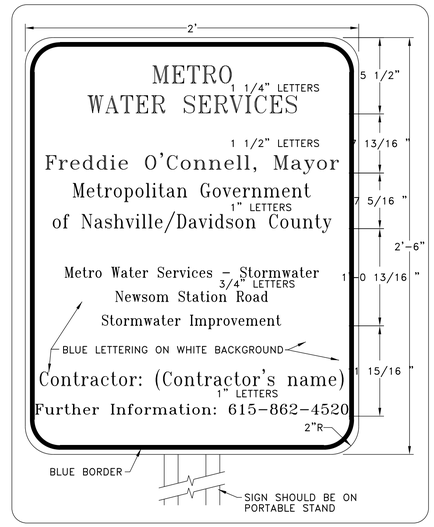
SHEET 08 OF 09

STANDARD DETAILS:

Applicable details for this project include:

MWS/NDOT DETAILS:
- DR-180 (Trench Backfill)
- TCP-14 (Weighted Sediment Tube)
- TCP-15 (Sand Bag Barrier)
- ST-252 (Residential Medium Density Minor and Local Street (50' ROW))
- ST-271A (Recessed Trench Repair with Crushed Stone)

TDOT DETAILS:
- EC-STR-1 (Dewatering Structure)
- EC-STR-2 (Sediment Filter Bag)
- EC-STR-32 (Temporary Diversion Culverts)
- EC-STR-33 (Suspended Pipe Diversion (Downstream))
- EC-STR-33A (Suspended Pipe Diversion (Upstream))
- STD-17-1 (Index of Drawings)
- STD-17-2 (Terminology of Drawings)
- STD-17-3 (General Notes)
- STD-17-4 (Design Section Limits)
- STD-17-5 (Typical Sections and Details)
- STD-17-6 (Typical Elevation)
- STD-17-9 (Interior Wall End Treatments)
- STD-17-10 (Typical Wingwall Details and Notes)
- STD-17-11 (Wingwall Dimensions and Quantities)
- STD-17-15 (Wingwall and Special Retaining Wall Design Sections)
- STD-17-16 (Wingwall Design Sections)
- STD-17-17 (Backfill and Drainage Details)
- STD-17-18 (Backfill Details)
- STD-17-25 (Stage Construction Joint Detail (Fill Above Top of Slab Not Greater Than 5'-6"))
- STD-17-28 (End Section Details)
- STD-17-59 (Box Bridge, 1 Barrel at 14', Clear Heights 5'-0" - 7'-0", 0' Thru 60' Fill)
- STD-17-119 (Standard Reinforced Concrete Slab Bridge, 1 Barrel At 14', Clear Heights 5'-0" Thru 7'-0", 0' Thru 60' Fill)



METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY DEPARTMENT OF WATER AND SEWERAGE SERVICES	SMALL CONSTRUCTION SIGN	
NOT TO SCALE	DATE: 12/27/01	DWG. NO. CON-SIGN-SM

FILE NO.	NEWSOM STATION ROAD
DATE:	12-28-2023
DESIGNED BY:	ECD
DRAWN BY:	ECD
CHECKED BY:	DWG

REVISION BLOCK	
DATE:	1-25-2024
DATE:	07-17-2025
DATE:	

07-17-2025: EC-STR-33 AND EC-STR-33A ADDED TO DETAIL LIST.

CONSOR ENGINEERS, LLC
101 WESTPARK DRIVE, SUITE 300
BRENTWOOD, TN 37027
(888)-451-6822

SEALED BY

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
METRO WATER SERVICES
STORMWATER DIVISION

NEWSOM STATION ROAD STORMWATER IMPROVEMENTS

STANDARD DETAILS

SCALE: N.T.S.