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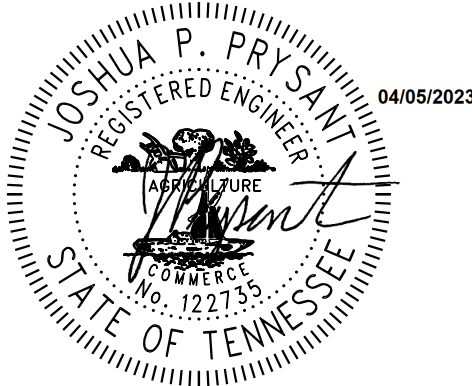
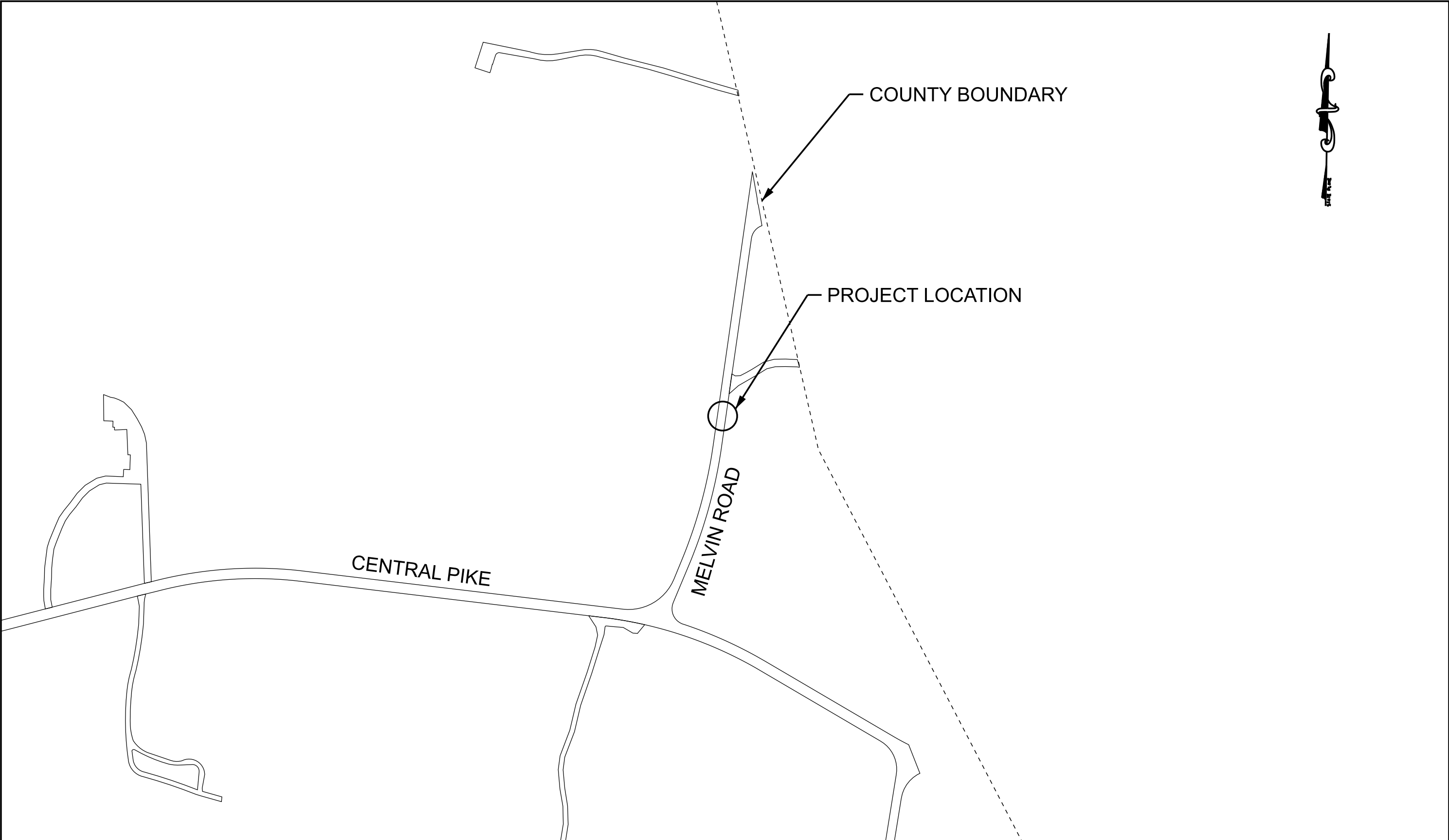
SHEET NO.	SHEET NAME
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METROPOLITAN GOVERNMENT
OF NASHVILLE AND DAVIDSON COUNTY
NASHVILLE DEPARTMENT OF TRANSPORTATION

DAVIDSON COUNTY
DISTRICT 12
COUNCIL PERSON: ERIN EVANS

MELVIN ROAD
CULVERT REPLACEMENT

FILE NO.	COVER.SHT
DATE:	04/05/2023
DESIGNED BY:	AOS
DRAWN BY:	AOS
CHECKED BY:	PSN
REVISION BLOCK	
DATE:	
DATE:	
DATE:	



MWS PROJECT NUMBERS:
23WC0035

NDOT



SPECIAL NOTES

PROPOSALS MAY BE REJECTED IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006, AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE CONTRACT.

ALL DESIGN AND CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ("ADA"), 2010 STANDARDS FOR ACCESSIBLE DESIGN, AS HAS BEEN ADOPTED BY METRO.

CONSOR ENGINEERS, LLC
25 LINDSLEY AVENUE, NASHVILLE, TN 37210
(615) 425-2000

Project Authorized by Council Resolution No.

APPROVED: _____
DIRECTOR of ENGINEERING Date

SPECIAL NOTES

1. ALL MATERIALS EXCAVATED ON THE PROJECT AND DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR CONSTRUCTION OF THE ROADWAY FILLS (TREES, ROOTS, STUMPS, ETC.) SHALL BE DISPOSED OF BY THE CONTRACTOR.
2. NO OPEN BURNING WILL BE ALLOWED ON THIS PROJECT.
3. ALL NEW GRADED EARTHEN AREAS ON THE PROJECT THAT ARE NOT TO BE PAVED, SODDED, OR STABILIZED SHALL BE SEEDED WITH MULCH IN ACCORDANCE WITH SECTION 801 OF TDOT STANDARD SPECIFICATIONS.
4. ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL REQUIRED PERMITS ARE SECURED FOR EACH PROPERTY UTILIZED. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
5. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES AND SHALL BE REQUIRED TO KEEP ONE LANE OF TRAFFIC OPEN AT ALL TIMES FOR THRU TRAFFIC AND EMERGENCY VEHICLES/EQUIPMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SERVICES OF METRO POLICE OFFICERS WHEN AND IF THEIR SERVICES ARE NEEDED TO AID IN TRAFFIC CONTROL, ETC. THE COST FOR THIS WORK SHALL BE INCLUDED UNDER PAY ITEM 712-08.06.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING PERMITS FOR ALL ROAD AND/OR LANE CLOSURES ASSOCIATED WITH THIS PROJECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ANY AND ALL UTILITY RELOCATION WORK.
9. UNLESS OTHERWISE INDICATED ON THE PLANS, NO DIRECT PAYMENT WILL BE MADE FOR FOUNDATION PREPARATION AND BACKFILL; AND THE COST INVOLVED SHALL BE INCLUDED IN THE UNIT PRICES FOR OTHER ITEMS OF CONSTRUCTION.
10. NO CURB RAMP SHALL BE POURED UNTIL FORMS HAVE BEEN CHECKED AND APPROVED BY THE INSPECTOR.
11. DRIVEWAY TOUCHDOWN POINT LOCATION SHALL BE APPROVED BY THE ENGINEER. TAPER DRIVEWAY TO MATCH EXISTING WIDTH AND MATCH EXISTING MATERIAL.
12. SIDEWALK WIDTH MAY BE FIELD ADJUSTED TO AVOID UTILITY POLES, TREES, OR OTHER OBSTRUCTIONS AS DIRECTED BY THE ENGINEER.
13. THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY EXISTING SIGNS DAMAGED DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL RAISE ANY EXISTING SIGNS THAT DO NOT HAVE 7' MINIMUM CLEARANCE ABOVE THE SIDEWALK.
15. THE CONTRACTOR SHALL ADJUST EXISTING WATER VALVE AND WATER METER BOXES TO BE FLUSH WITH SIDEWALK, AND RELOCATE FIRE HYDRANTS AS DIRECTED BY THE ENGINEER.
16. NO TREES SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
17. THE GAS VALVE BOXES LOCATED WITHIN THE LIMITS OF THE 5' SIDEWALK SHALL BE ADJUSTED BY PIEDMONT GAS COMPANY.
18. NO SEPARATE PAYMENT SHALL BE MADE FOR PIPE BEDDING. IT SHALL BE INCLUDED IN THE COST OF THE PIPE.

GENERAL PAY ITEM NOTES

1. THE ITEMS LISTED IN THE QUANTITIES TABLE ARE CONSIDERED PAY ITEMS, AND NO ADDITIONAL PAYMENTS WILL BE MADE FOR ITEMS NOT LISTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DESCRIBED BY THESE PAY ITEMS AND THE REQUIREMENTS OF THE SPECIFICATIONS. SHOULD A CHANGE IN THE WORK BE REQUIRED, IT SHALL BE PROCESSED IN ACCORDANCE WITH THE NASHVILLE DEPARTMENT OF TRANSPORTATION CHANGE ORDER PROCEDURES.
2. UNIT PRICES FOR THE PROPOSED SIDEWALK IMPROVEMENT PROJECT SHOULD INCLUDE LABOR, MATERIALS, EQUIPMENT, INSURANCE, OVERHEAD AND PROFIT. COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS FOR THE ENTIRE CONTRACT SHALL BE INCLUDED IN THE BID PRICE.
3. THE OWNER DOES NOT GUARANTEE THAT QUANTITIES LISTED ON THE BID FORM ARE EXACT. THE CONTRACTOR WILL BE PAID FOR THE UNITS OF WORK ACTUALLY INSTALLED (QUANTITY) AND APPROVED IN PLACE TIMES THE UNIT PRICE BID FOR THE APPROPRIATE LINE ITEM AS LISTED ON THE BID FORM. SUCH QUANTITIES OF WORK INSTALLED WILL BE AS VALIDATED BY THE RESIDENT PROJECT REPRESENTATIVE. NASHVILLE DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITIES LISTED IN THE BID FORM.
4. NO ITEM QUANTITIES IN BIDDERS PROPOSAL WILL BE ADJUSTED AFTER RECEIPT OF BIDS, UNLESS CONCURRED BY OWNER. CONTRACTOR IS ENCOURAGED TO CHECK QUANTITIES IN BIDDERS PROPOSAL PRIOR TO SUBMITTING BID. ANY DISCREPANCIES FOUND BY THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE AND IN ALL CASES PRIOR TO THE OPENING OF BIDS.

STANDARD DETAILS

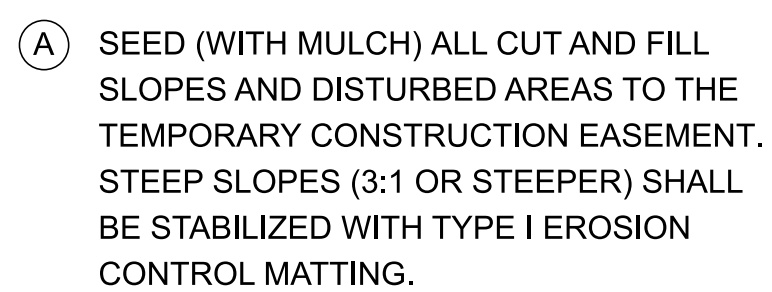
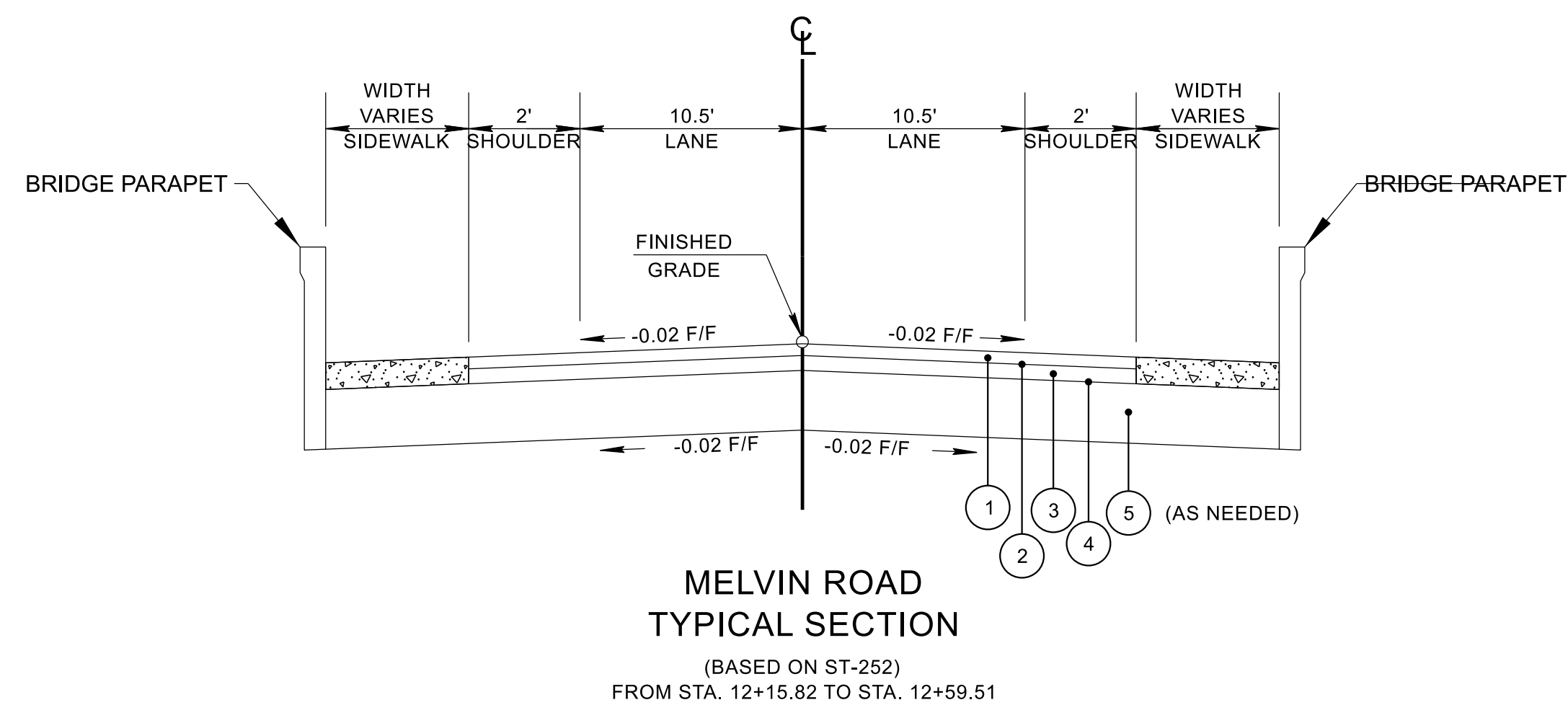
TOT DETAILS	DETAIL DESCRIPTION
EC-STR-2	SEDIMENT FILTER BAG
EC-STR-3C	SILT FENCE WITH WIRE BACKING
EC-STR-6A	ENHANCED ROCK CHECK DAM
EC-STR-30	INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-31	TEMPORARY DIVERSION CHANNEL
EC-STR-32	TEMPORARY DIVERSION CULVERTS
EC-STR-34	EROSION CONTROL BLANKETS FOR SLOPE INSTALLATION
STD-11-3	STANDARD CONCRETE PEDESTRIAN CLASSIC RAIL
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-17-7	CURB, RAIL & EDGE BEAM DETAIL - SKEW NOT LESS THAN 45 DEG.
STD-17-9	INTERIOR WALL END TREATMENTS
STD-17-10	TYPICAL WINGWALL DETAILS AND NOTES
STD-17-14	WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15	WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16	WINGWALL DESIGN SECTION
STD-17-17	BACKFILL & DRAINAGE DETAILS
STD-17-18	BACKFILL DETAILS
STD-17-25	STAGE CONSTRUCTION JOINT DETAIL (FILL ABOVE TOP OF SLAB NOT GREATER THAN 3'-6")
STD-17-28	END SECTION DETAILS
STD-17-126	SLAB BRIDGE, 1 BARREL AT 18', CLEAR HTS. 9'-11", 0-60' FILL
S-GR3-6	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS
S-GR31-1	GUARDRAIL DETAILS
S-GR31-1A	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B	GUARDRAIL FASTENING HARDWARE
S-GR31-1C	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GR31-1D	GUARDRAIL POST PLACEMENT IN ROCK
S-GRA-3	TYPE 13 GUARDRAIL ANCHOR
S-GRT-3	TYPE 21 GUARDRAIL END TERMINAL

DAVIDSON COUNTY MPW DETAILS	DETAIL DESCRIPTION
ST-252	RESIDENTIAL MEDIUM DENSITY MINOR AND LOCAL STREET
ST-271A	RECESSED TRENCH REPAIR WITH CRUSHED STONE

TRAFFIC DETAILS

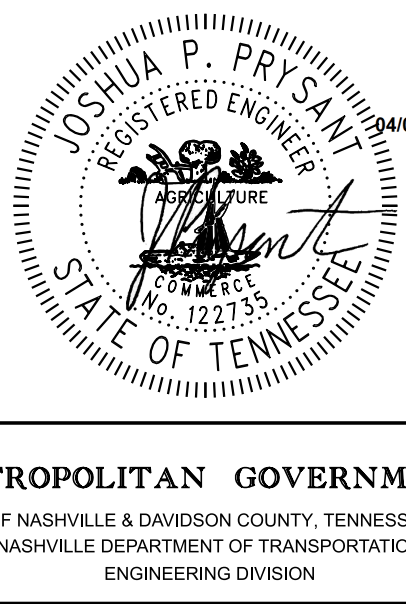
<u>TDOT DETAILS</u>	<u>DETAIL DESCRIPTION</u>
T-S-10	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-20	SIGN DETAILS
T-WZ-30	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)

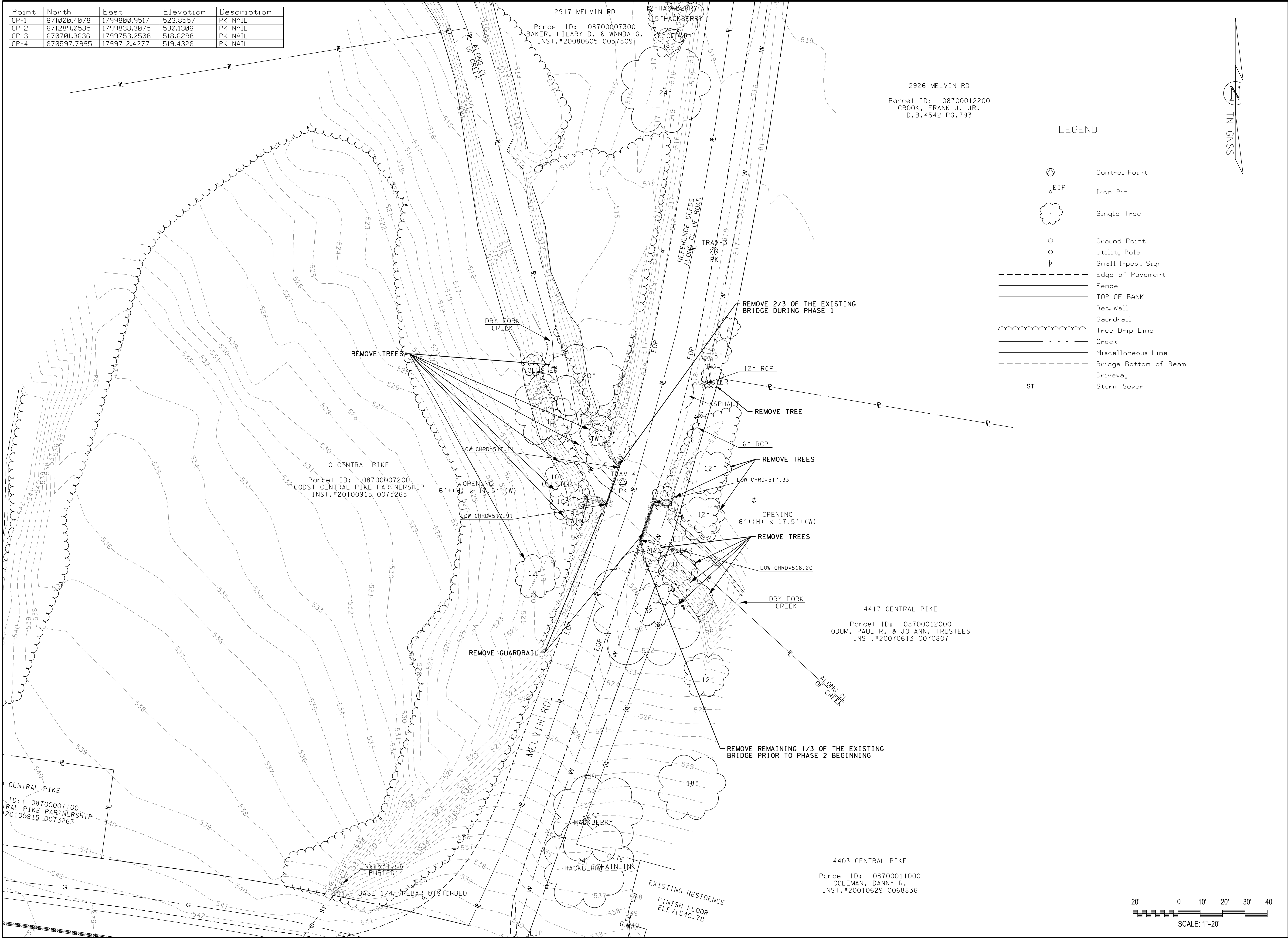
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CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
SEAL OF JOSHUA P. PRYSAINT REGISTERED ENGINEER STATE OF TENNESSEE No. 122735 04/05/2023	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
STANDARD DETAILS	
SCALE: N.T.S.	
SHEET: 2 OF 9	



PROPOSED PAVEMENT SCHEDULE	
①	ASPHALTIC CONCRETE SURFACE (HOT MIX) PG64-22 GRADING "D" SURFACE @ 1.50" THICK (APPROX. 159 LB./S.Y.) 411-03.10 ACS MIX (PG76-22) GRADING "D"
②	TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GALLONS/S.Y.
③	BITUMINOUS PLANT MIX BASE (HOT MIX) PG64-22 GRADING "B-M2" @ 2.50" THICK (APPROX. 283 LB./S.Y.) 307-03.08 ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING "B-M2"
④	PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALLONS/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 12 LB./S.Y.
⑤	MINERAL AGGREGATE (8" THICK) 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"

PROPOSED PAVEMENT SCHEDULE	
①	MINERAL AGGREGATE (6" THICK)
303-01	MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"

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CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
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METROPOLITAN GOVERNMENT	
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
TYPICAL SECTIONS	
SCALE: N.T.S.	
SHEET: 2A OF 9	



FILE NO.	PRESENT.SHT
DATE:	04/05/2023
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CONSOR ENGINEERS, LLC
25 LINDSLEY AVENUE, NASHVILLE, TN 37210
(615) 425-2000

SEALED BY

JOSHUA P. PRYSA
REGISTERED ENGINEER
No. 122735
STATE OF TENNESSEE

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
NASHVILLE DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

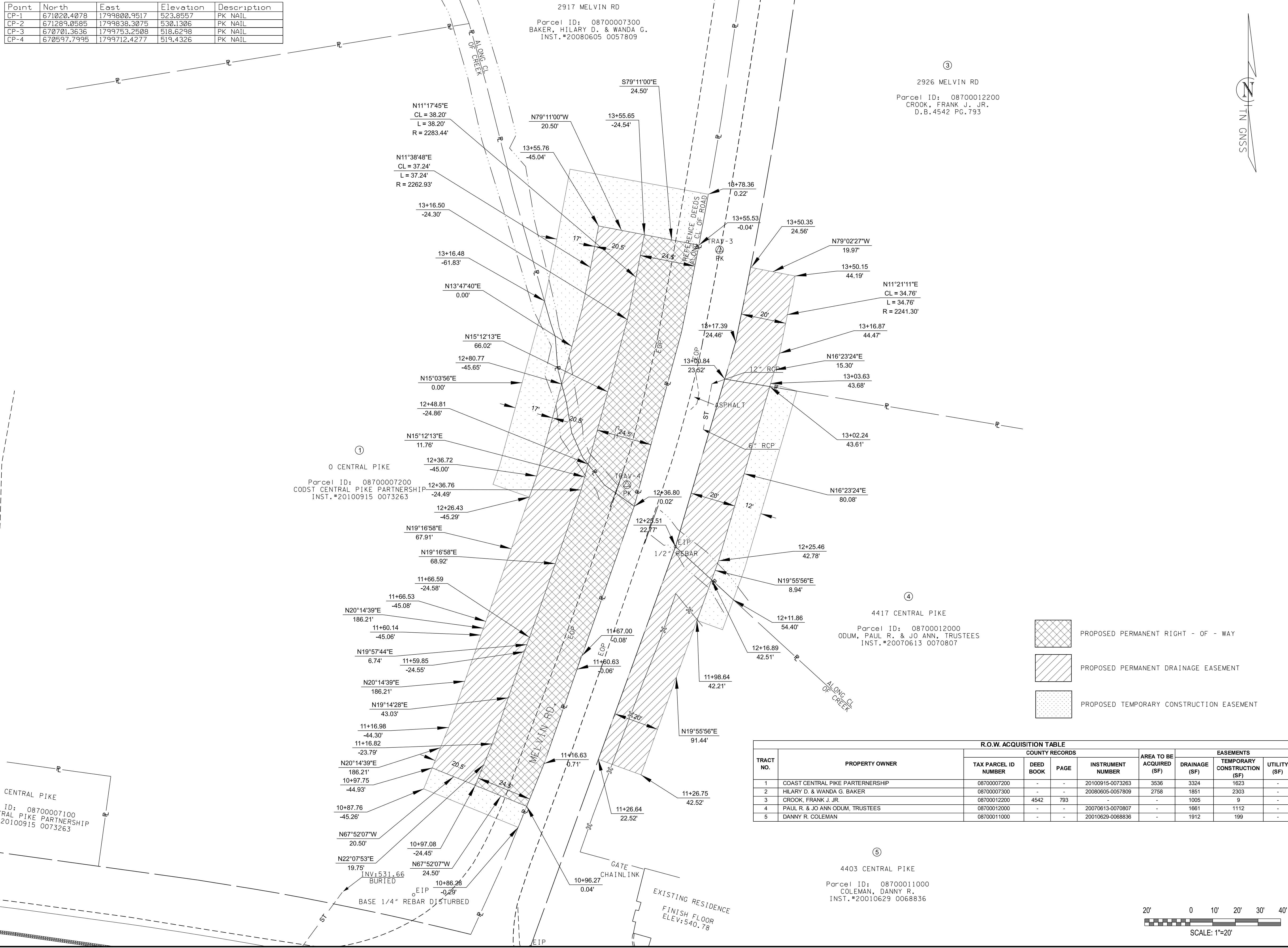
**2926 MELVIN ROAD
BRIDGE
REPLACEMENT**

PRESENT LAYOUT
& DEMOLITION PLAN

SCALE: 1" = 20'

SHEET: 3 OF 9

Point	North	East	Elevation	Description
CP-1	671020.4078	1799800.9517	523.8557	PK NAIL
CP-2	671289.0585	1799838.3075	530.1306	PK NAIL
CP-3	670701.3636	1799753.2508	518.6298	PK NAIL
CP-4	670597.7995	1799712.4277	519.4326	PK NAIL



FILE NO.	ROW.SHT
DATE:	04/05/2023
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DATE:	
DATE:	

CONSOR ENGINEERS, LLC
25 LINDSLEY AVENUE, NASHVILLE, TN 37210
(615) 425-2000

SEALED BY

JOSHUA P. PRYSANYI
REGISTERED ENGINEER
No. 122735
STATE OF TENNESSEE
04/05/2023

METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
NASHVILLE DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

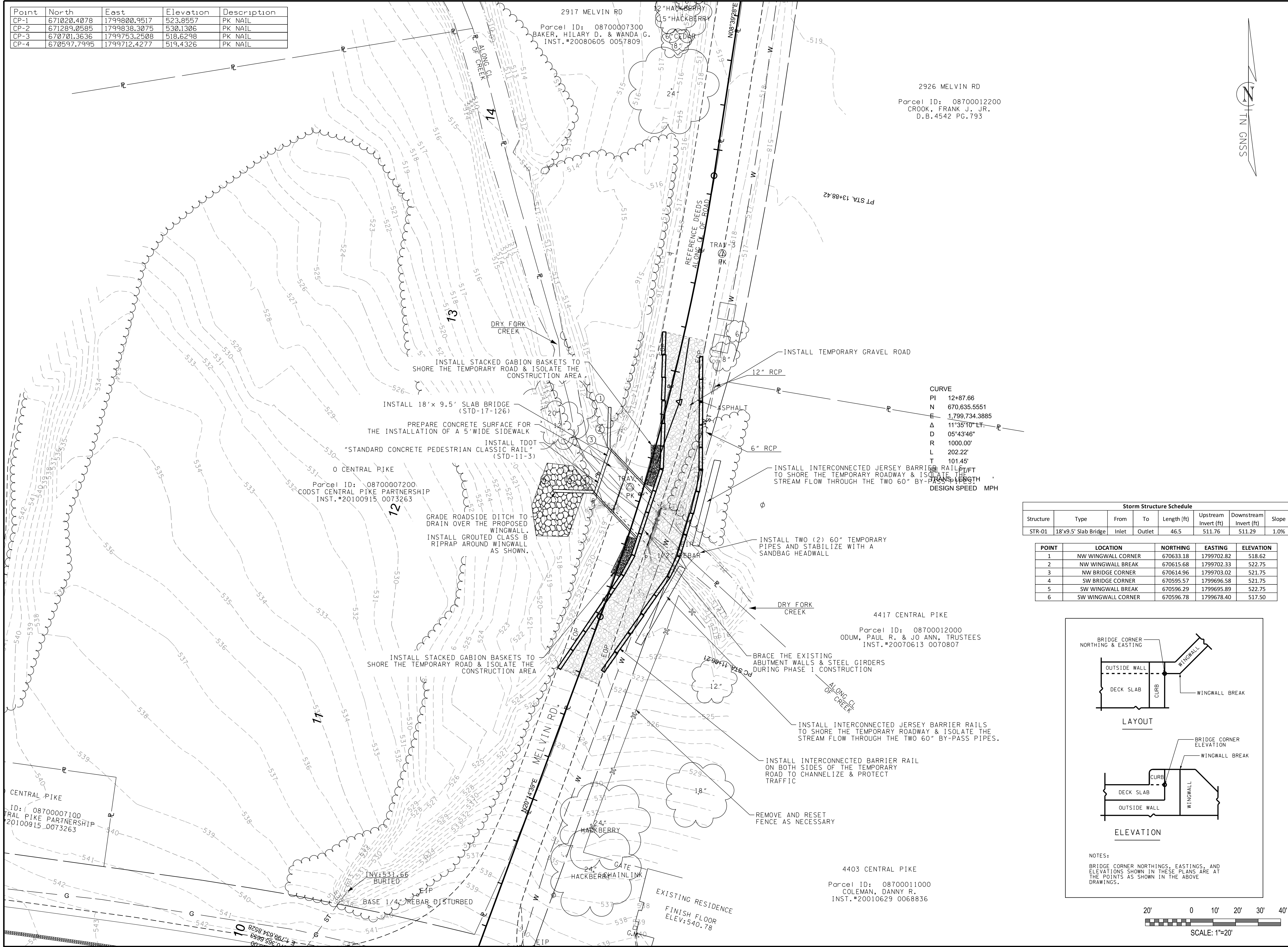
2926 MELVIN ROAD BRIDGE REPLACEMENT

ROW LAYOUT

SCALE: 1" = 20'

SHEET: 4 OF 9

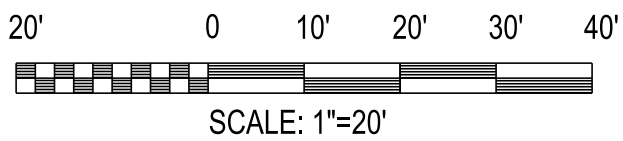
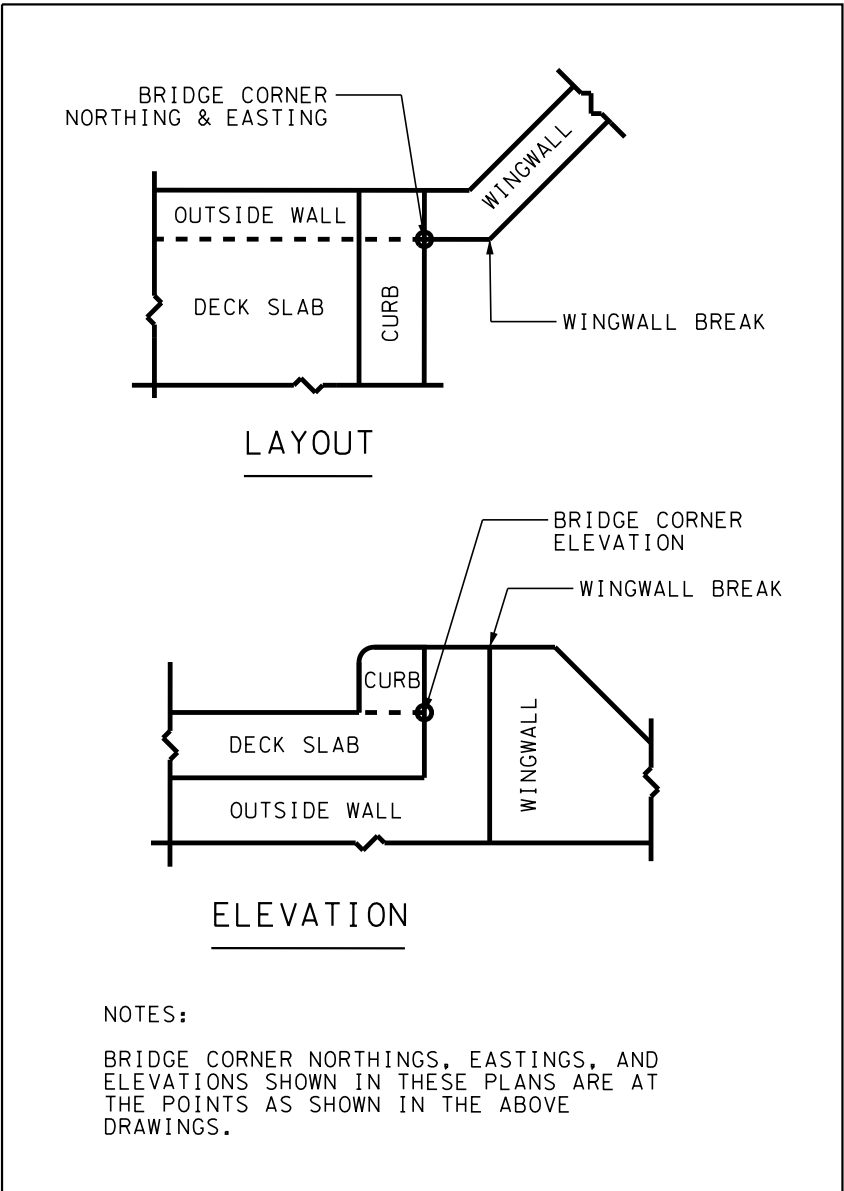
Point	North	East	Elevation	Description
CP-1	671020.4078	1799800.9517	523.8557	PK NAIL
CP-2	671289.0585	1799838.3075	530.1306	PK NAIL
CP-3	670701.3636	1799753.2508	518.6298	PK NAIL
CP-4	670597.7995	1799712.4277	519.4326	PK NAIL



CURVE				
PI	12+87.66			
N	670,635.5551			
E	1,799,734.3885			
Δ	11°35'10" LT.			
D	05°43'46"			
R	1000.00'			
L	202.22'			
T	101.45'			

Storm Structure Schedule							
Structure	Type	From	To	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)	Slope
STR-01	18'x9.5' Slab Bridge	Inlet	Outlet	46.5	511.76	511.29	1.0%

POINT	LOCATION	NORTHING	EASTING	ELEVATION
1	NW WINGWALL CORNER	670633.18	1799702.82	518.62
2	NW WINGWALL BREAK	670615.68	1799702.33	522.75
3	NW BRIDGE CORNER	670614.96	1799703.02	521.75
4	SW BRIDGE CORNER	670595.57	1799696.58	521.75
5	SW WINGWALL BREAK	670596.29	1799695.89	522.75
6	SW WINGWALL CORNER	670596.78	1799678.40	517.50



FILE NO. PROPOSEDP1.SHT

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CONSOR ENGINEERS, LLC

25 LINDSEY AVENUE, NASHVILLE, TN 37210

(615) 425-2000

SEALED BY

JOSHUA P. PRYSANT

REGISTERED ENGINEER

04/05/2023

STATE OF TENNESSEE

METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE

NASHVILLE DEPARTMENT OF TRANSPORTATION

ENGINEERING DIVISION

2926 MELVIN ROAD

BRIDGE

REPLACEMENT

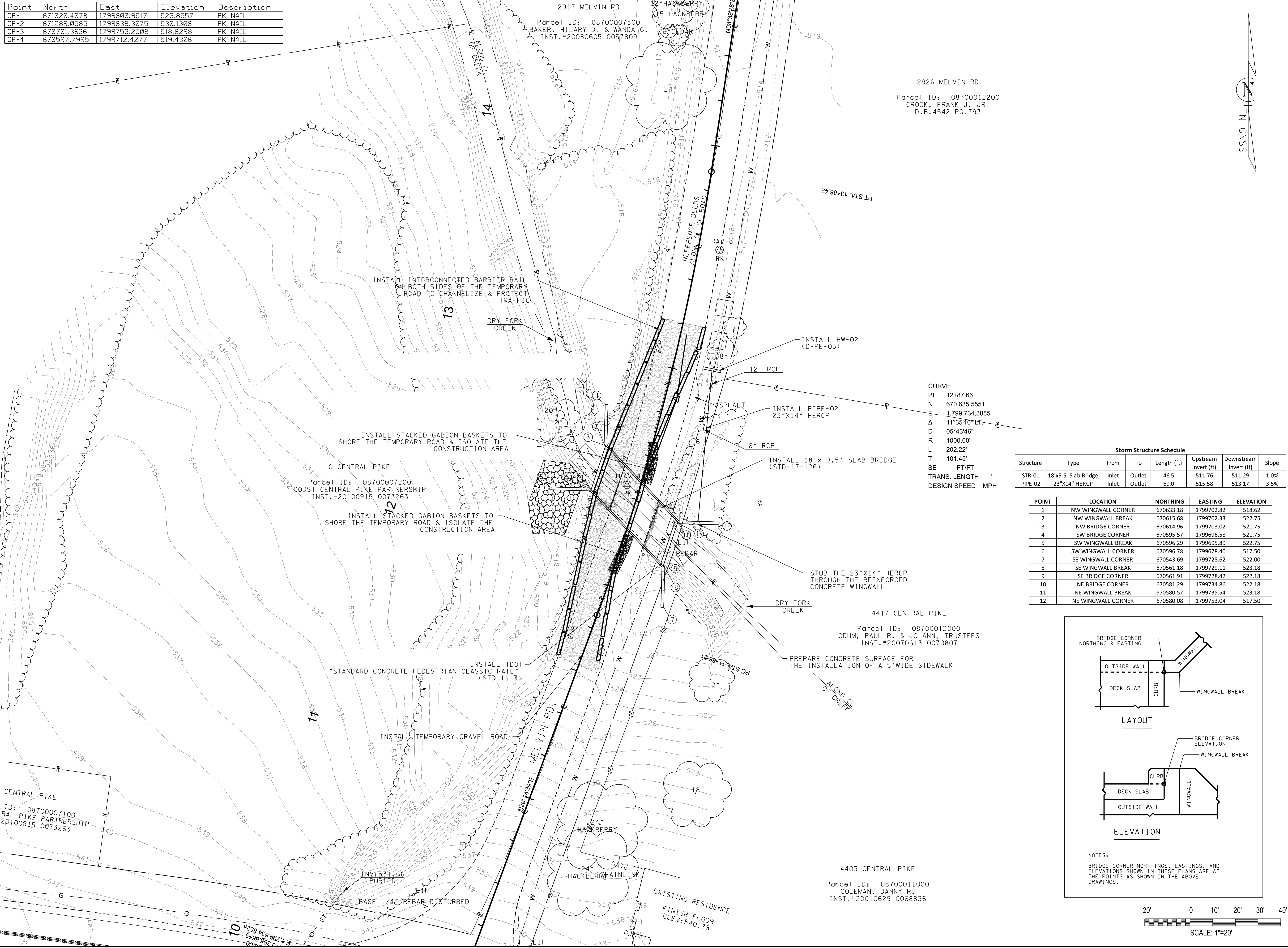
PROPOSED LAYOUT

PHASE 1

SCALE: 1" = 20'

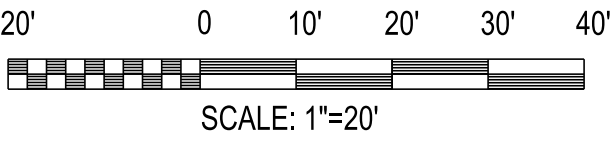
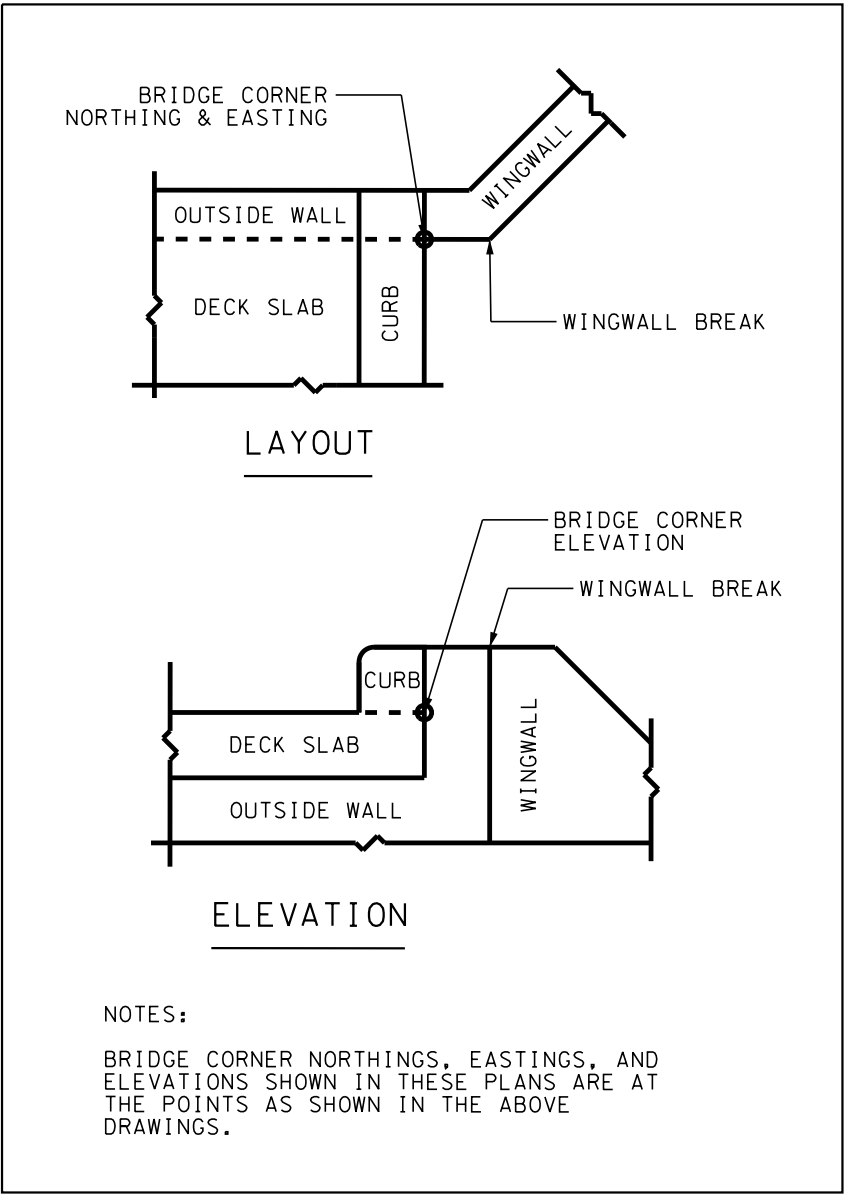
SHEET: 5 OF 9

Point	North	East	Elevation	Description
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CP-2	671289.0585	1799838.3075	530.1306	PK NAIL
CP-3	670701.3636	1799753.2508	518.6298	PK NAIL
CP-4	670597.7995	1799712.4277	519.4326	PK NAIL



Storm Structure Schedule						
Structure	Type	From	To	Length (ft)	Upstream Invert (ft)	Downstream Invert (ft)
STR-01	18'x9.5' Slab Bridge	Inlet	Outlet	46.5	511.76	511.29
PIPE-02	23'x14' HERCP	Inlet	Outlet	69.0	515.58	513.17

POINT	LOCATION	NORTHING	EASTING	ELEVATION
1	NW WINGWALL CORNER	670633.18	1799702.82	518.62
2	NW WINGWALL BREAK	670615.68	1799702.33	522.75
3	NW BRIDGE CORNER	670614.96	1799703.02	521.75
4	SW BRIDGE CORNER	670595.57	1799696.58	521.75
5	SW WINGWALL BREAK	670596.29	1799695.89	522.75
6	SW WINGWALL CORNER	670596.78	1799678.40	517.50
7	SE WINGWALL CORNER	670543.69	1799728.62	522.00
8	SE WINGWALL BREAK	670561.18	1799729.11	523.18
9	SE BRIDGE CORNER	670561.91	1799728.42	522.18
10	NE BRIDGE CORNER	670581.29	1799734.86	522.18
11	NE WINGWALL BREAK	670580.57	1799735.54	523.18
12	NE WINGWALL CORNER	670580.08	1799753.04	517.50



FILE NO. PROPOSEDP2.SHT

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CONSOR ENGINEERS, LLC

25 LINDSEY AVENUE, NASHVILLE, TN 37210

(615) 425-2000

SEALED BY

JOSHUA P. PRYSAK

REGISTERED ENGINEER

04/05/2023

METROPOLITAN GOVERNMENT

OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE

NASHVILLE DEPARTMENT OF TRANSPORTATION

ENGINEERING DIVISION

2926 MELVIN ROAD

BRIDGE REPLACEMENT

PROPOSED LAYOUT

PHASE 2

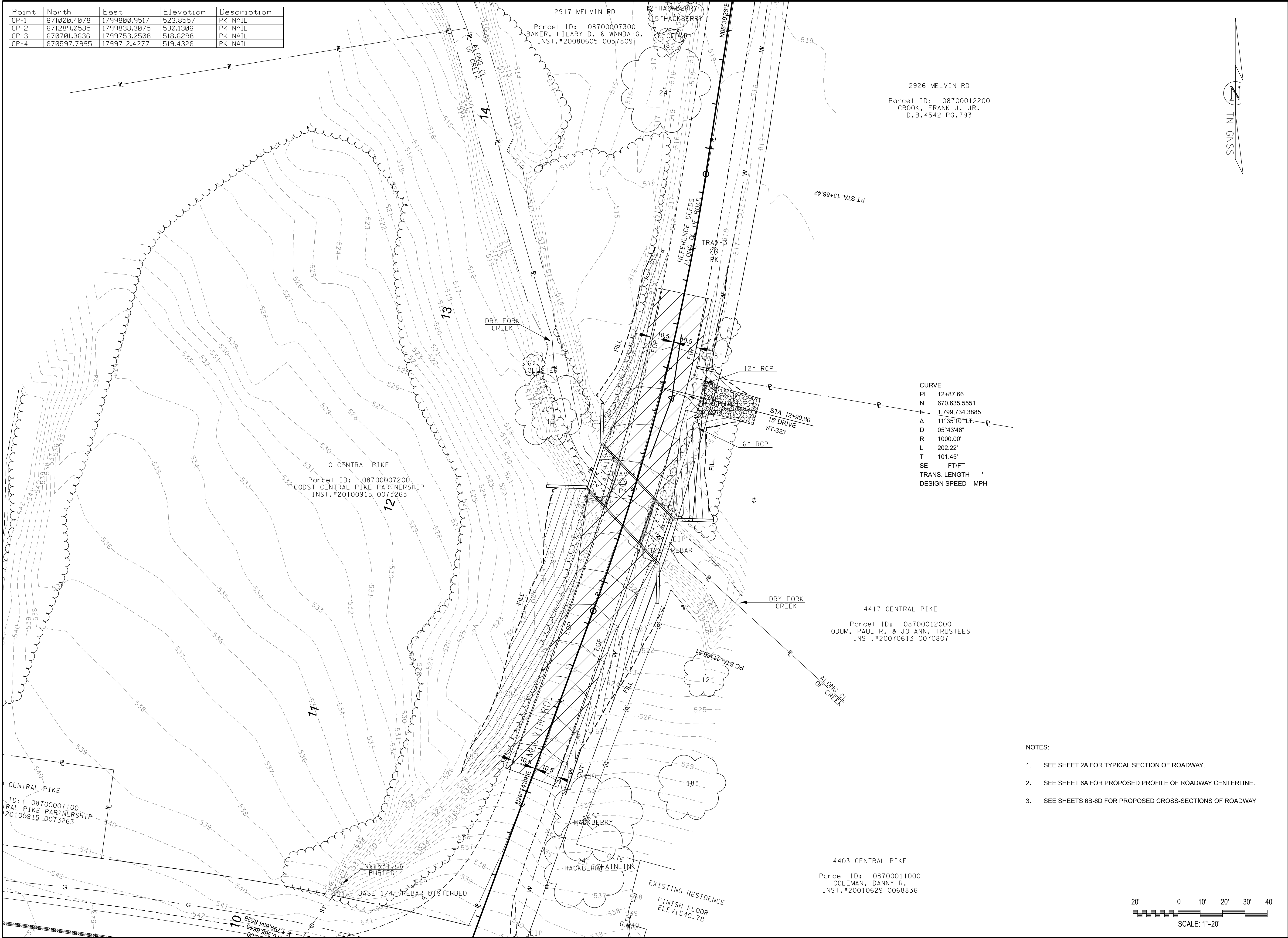
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SHEET: 5A OF 9

Point	North	East	Elevation	Description
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CP-2	671289.0585	1799838.3075	530.1306	PK NAIL
CP-3	670701.3636	1799753.2508	518.6298	PK NAIL
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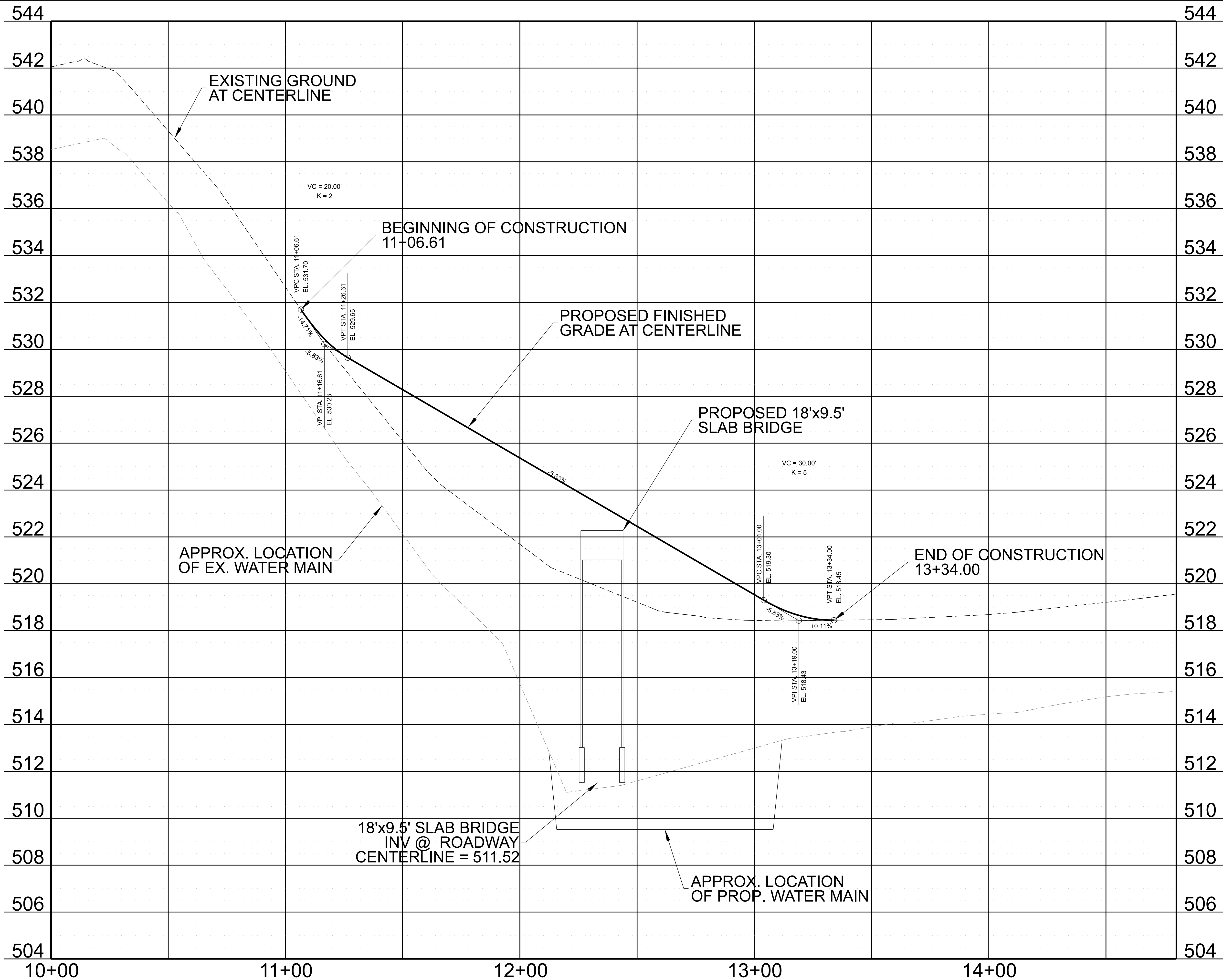


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2926 MELVIN ROAD BRIDGE REPLACEMENT	
PROPOSED LAYOUT PHASE 3	
SCALE: 1" = 20'	
SHEET: 5B OF 9	



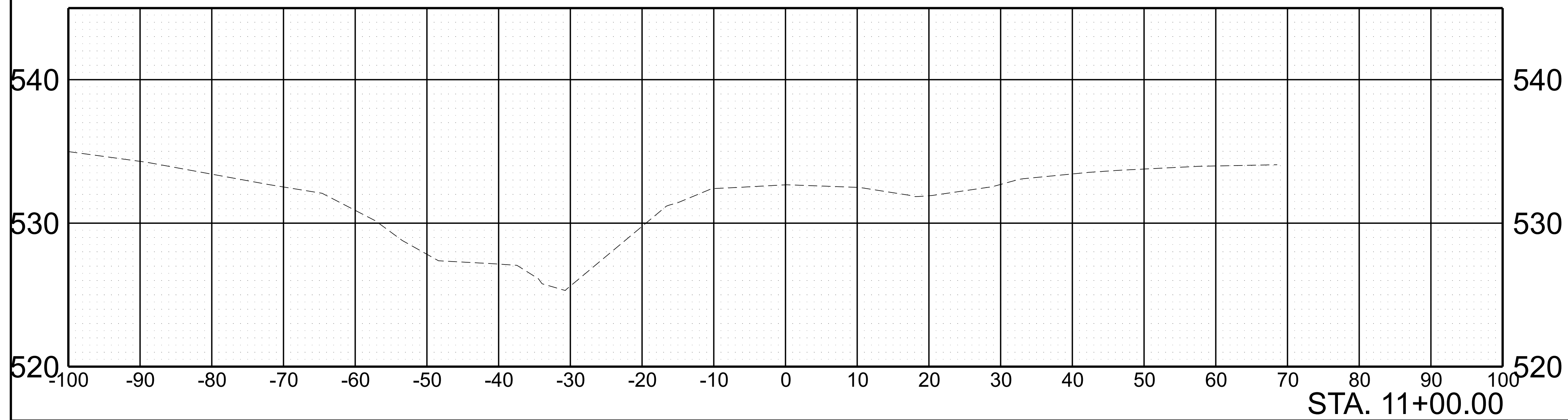
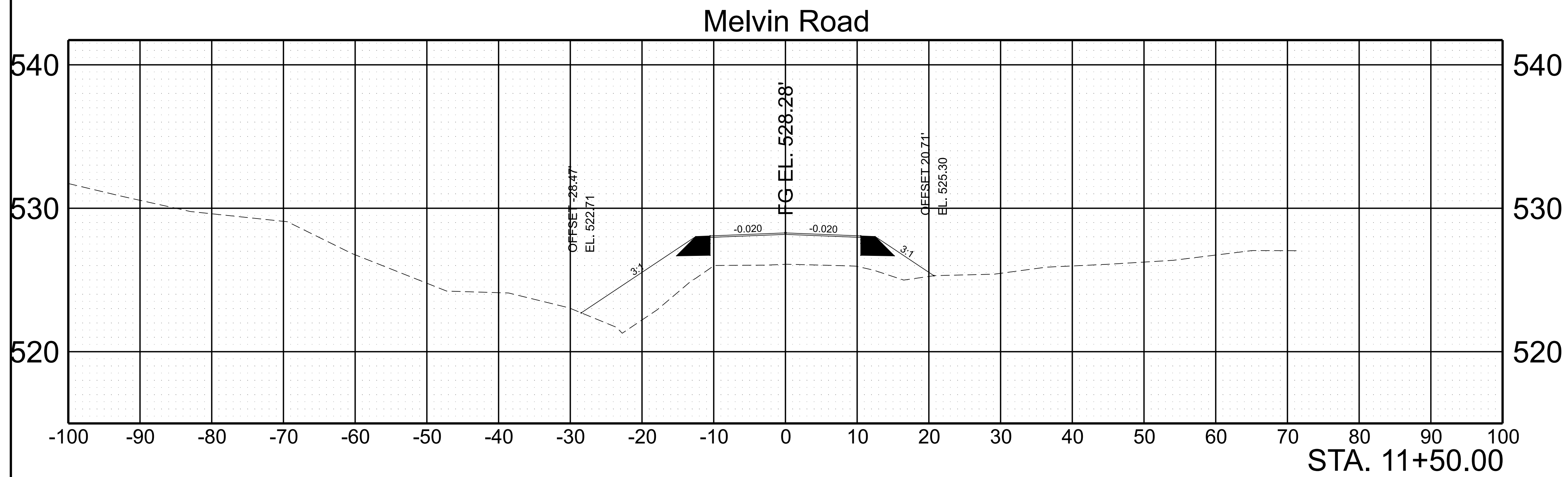
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2926 MELVIN ROAD BRIDGE REPLACEMENT	
PROPOSED GRADING	
SCALE: 1" = 20'	
SHEET: 6 OF 9	

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MWS PROJECT NUMBERS: 23WC0035	
SEALED BY	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
PROPOSED PROFILE	
SCALE: 1" = 20' HORIZ. 1" = 2' VERT.	
SHEET: 6A OF 9	

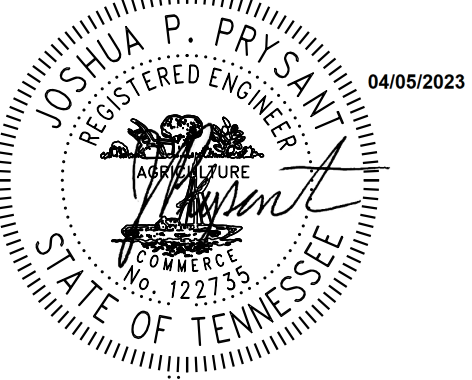
4/10/2023 9:00:57 AM



FILE NO.	CROSS-SECTION1.SHT
DATE:	04/05/2023
DESIGNED BY:	AOS
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REVISION BLOCK	
DATE:	
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CONSOR ENGINEERS, LLC
25 LINDSLEY AVENUE, NASHVILLE, TN 37210
(615) 425-2000

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METROPOLITAN GOVERNMENT
OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE
NASHVILLE DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

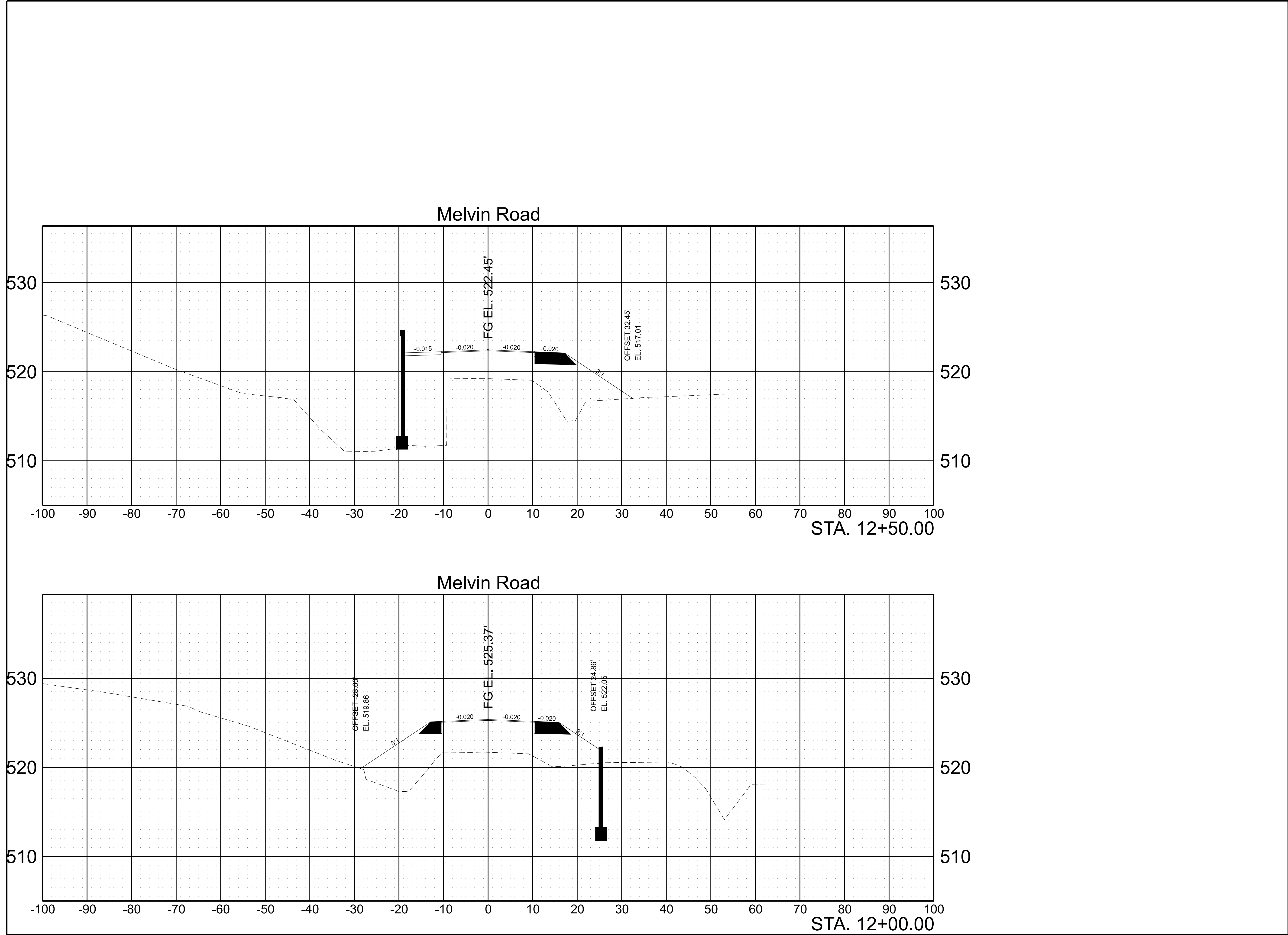
2926 MELVIN
ROAD
BRIDGE
REPLACEMENT

PROPOSED
CROSS SECTIONS
STA. 11+00 TO 11+50

SCALE: 1" = 20'

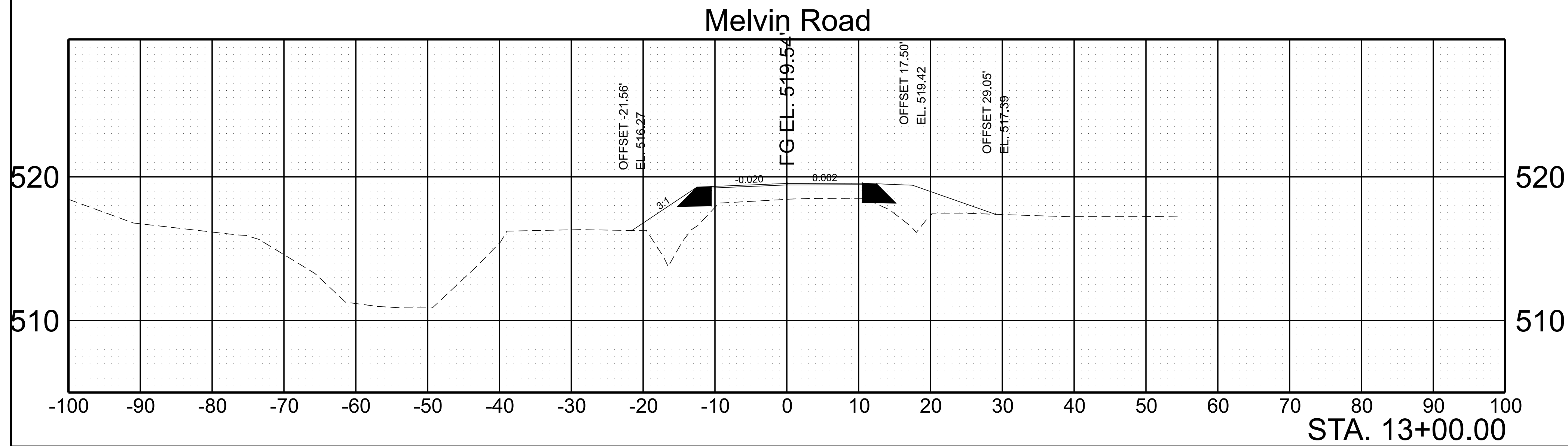
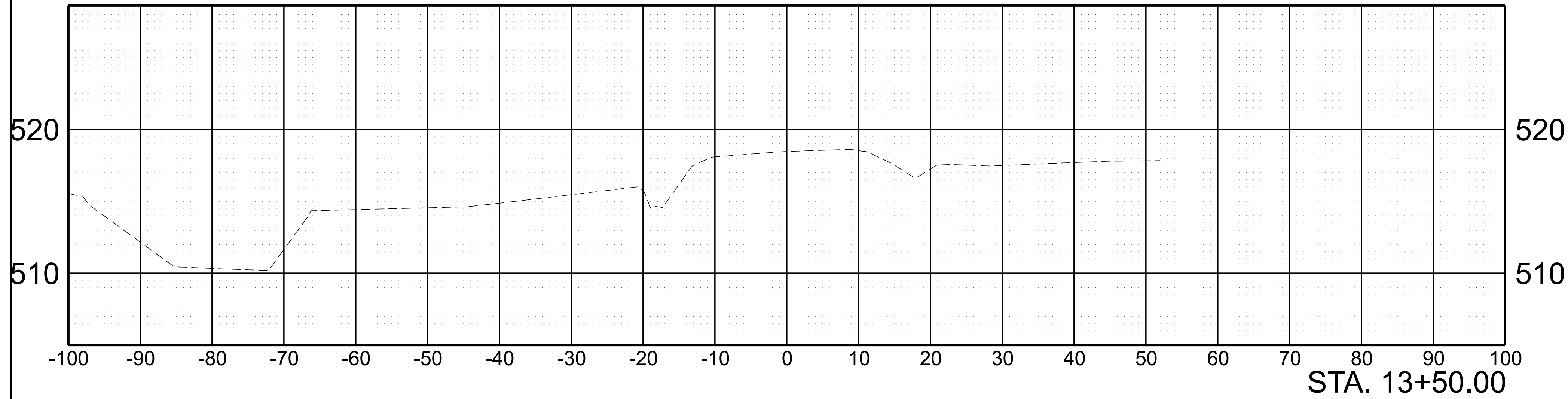
SHEET: 6B OF 9

4/10/2023 8:59:50 AM C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.10\CONFIGURATION\WORKSPACES\INDOT_BRIDGES AND CULVERTS\WORKSETS\MELVIN ROAD_2926\IDGN\2926\MELVINROAD_CORRIDOR\ROADWAY.DGN



FILE NO.	CROSS-SECTION2.SHT
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CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
SEALED BY	
04/05/2023	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
PROPOSED CROSS SECTIONS STA. 12+00 TO 12+50	
SCALE: 1" = 20'	
SHEET: 6C OF 9	

4/10/2023

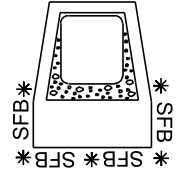
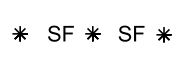
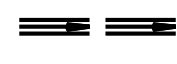


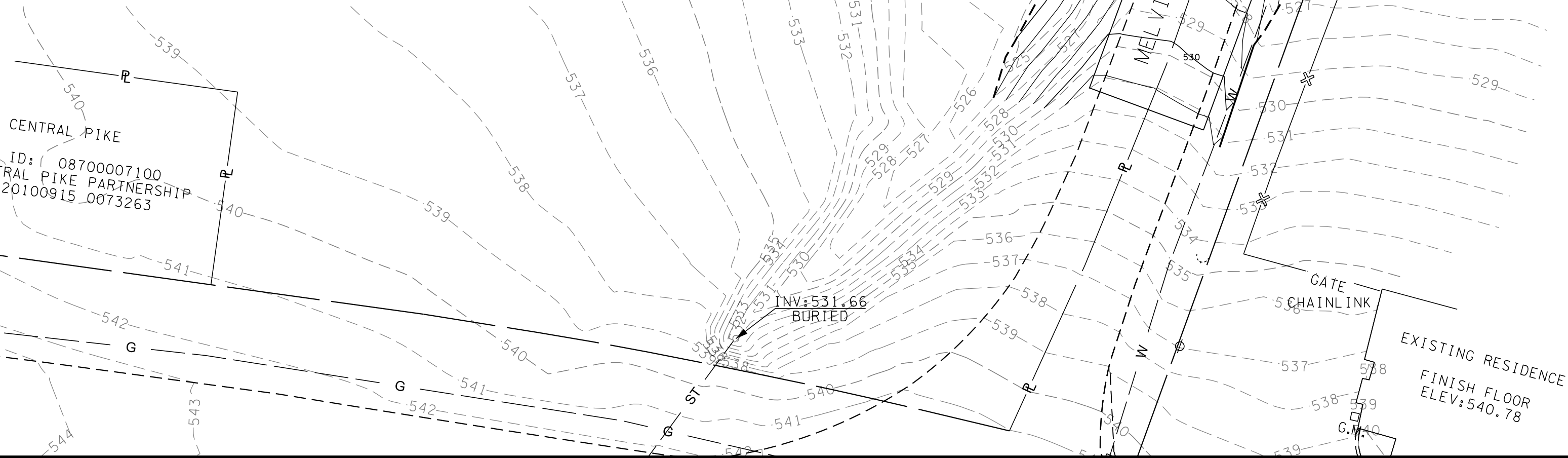
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DESIGNED BY:	AOS
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REVISION BLOCK	
DATE:	
DATE:	
DATE:	
CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
SEAL OF THE REGISTERED ENGINEER JOSHUA P. PRYSAINT REGISTERED ENGINEER No. 12273 STATE OF TENNESSEE 04/05/2023	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
PROPOSED CROSS SECTIONS STA. 13+00 TO 13+50	
SCALE: 1" = 20'	
SHEET: 6D OF 9	

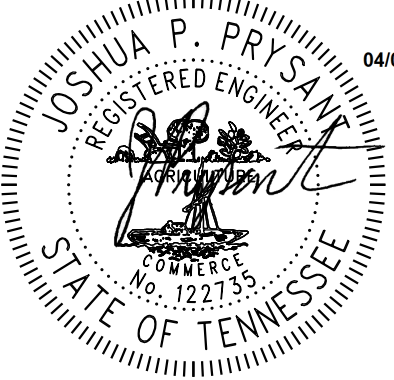
Point	North	East	Elevation	Description
CP-1	671020.4078	1799800.9517	523.8557	PK NAIL
CP-2	671289.0585	1799838.3075	530.1306	PK NAIL
CP-3	670701.3636	1799753.2508	518.6298	PK NAIL
CP-4	670597.7995	1799712.4277	519.4326	PK NAIL

EPSC NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH MOVING ACTIVITIES. EPSC MEASURES SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
2. EPSC MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THESE PLANS, METRO WATER SERVICES BEST MANAGEMENT PRACTICES, AND ANY ENVIRONMENTAL PERMITS FOR THIS PROJECT.
3. THIS PLAN MAY NOT COVER ALL SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF A REPRESENTATIVE OF NASHVILLE DEPARTMENT OF TRANSPORTATION.
4. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM AND AT THE END OF EACH WORK DAY. ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL RAIN EVENTS TO ENSURE MEASURES ARE WORKING PROPERLY. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM AREA NECESSARY TO COMPLETE THE PROJECT.
5. TEMPORARY SOIL STOCKPILES SHALL BE COVERED WITH ADEQUATELY ANCHORED POLYETHYLENE SHEETING AND COMPLETELY SURROUNDED WITH SILT FENCE.
7. AN INSTREAM DIVERSION SHALL BE ESTABLISHED PRIOR TO ANY CONSTRUCTION ACTIVITY TAKING PLACE. THE INSTREAM DIVERSION SHALL BE ESTABLISHED ACCORDING TO TDOT DETAIL EC-STR-30. THE INSTREAM DIVERSION SHALL BE INSTALLED WHEN NO RAIN HAS OCCURRED IN THE IMMEDIATE UPSTREAM AREA WITHIN THE LAST 48 HOURS.
8. BARE EARTH AREAS SHALL BE SEEDED AND MULCHED. ALL BARE EARTH AREAS SHALL BE STABILIZED AT THE END OF EACH WORK DAY AND PRIOR TO ANY RAIN EVENT.
9. ANY FINES, COST FOR CLEANUP EFFORTS, OR OTHER PENALTIES AS THE RESULT OF A SEDIMENT RELEASE FROM THE PROJECT OR IMPROPER EROSION PREVENTION MEASURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. DISTURBED SOILS SHALL BE STABILIZED WITHIN 14 DAYS OF ANY STOPPAGE IN WORK. STEEP SLOPES (3:1 OR STEEPER) SHALL BE STABILIZED WITHIN 7 DAYS.
11. STEEP SLOPES (3:1 OR STEEPER) SHALL BE STABILIZED WITH NORTH AMERICAN GREEN SC-150 OR EQUAL EROSION CONTROL MATTING UPON FINAL GRADING.
12. CONTRACTOR SHALL PROVIDE AN AREA FOR CONCRETE WASH AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMIT.

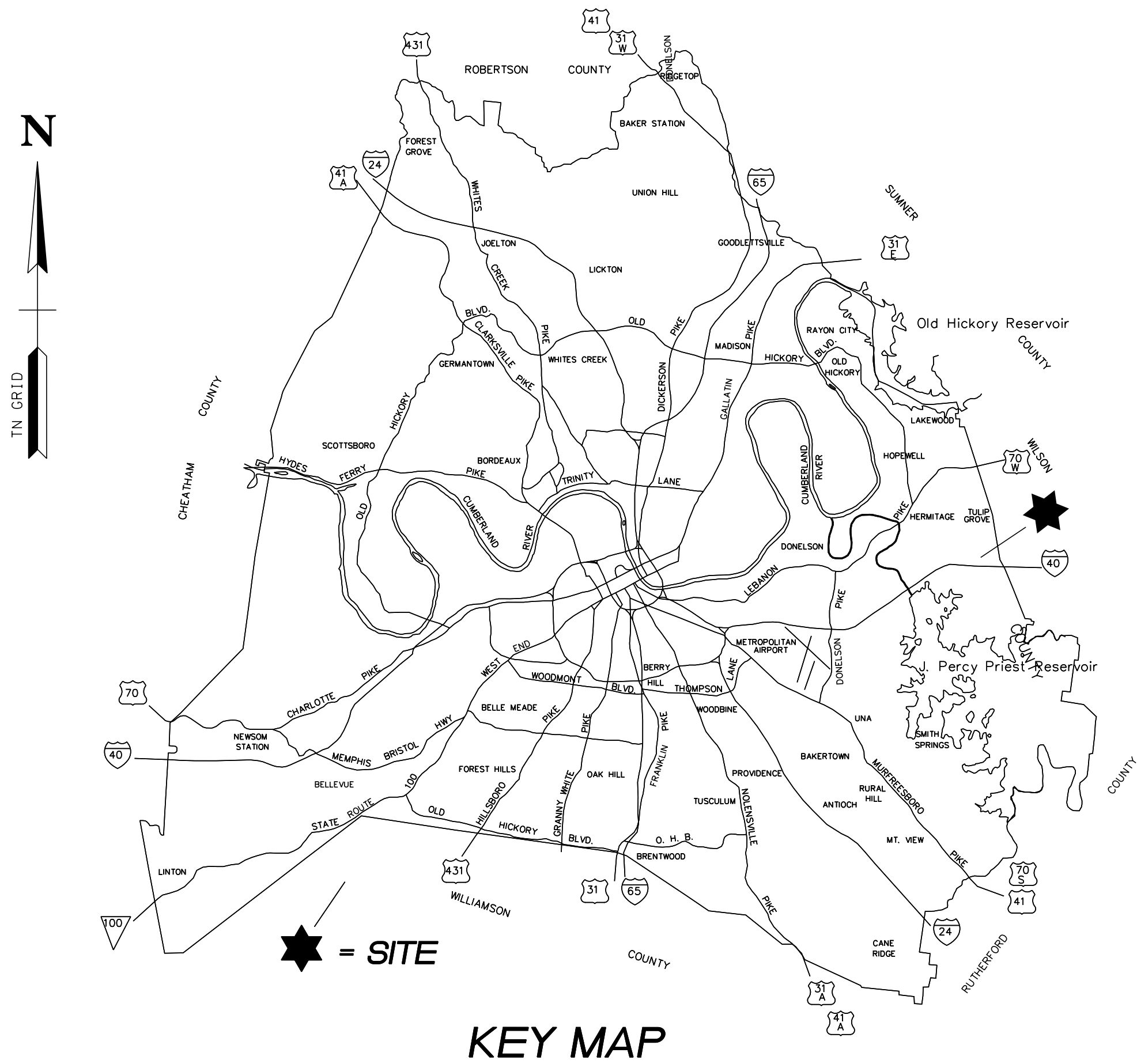
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	SEDIMENT FILTER BAG	EC-STR-2
	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ENHANCED ROCK CHECK DAM (CHANNEL)	EC-STR-6A
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
	SAND BAG	EC-STR-33



FILE NO.	EPSC.SHT
DATE:	04/05/2023
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CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
SEALED BY	
 04/05/2023	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
EPSC LAYOUT	
SCALE: 1" = 20'	
SHEET: 7 OF 9	

GENERAL NOTES

1. All water and sewer construction shall conform to the current standard specifications and details of the Metropolitan Government of Nashville and Davidson County Department of Water and Sewerage Services (MWS).
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 location and preserving existing utilities prior to and during construction. Repairs or replacements to any MWS 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 MWS 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 Criteria Section 9.2 Separation of Water Mains and Sewers. When a conflict exists and proper separation is not attainable the Contractor shall coordinate with MWS 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 MWS.
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 MWS if lead services are discovered. The Contractor shall follow the current MWS 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 MWS Inspection personnel prior to any work or connections being conducted on the MWS 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 MWS. Operating valves shall be scheduled in writing by the Contractor and must be approved in advance by MWS.
13. Metro Water Services 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 MWS 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 MWS.
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 MWS system component, requires relocation or addition and is not indicated on the approved drawings, the Contractor shall notify MWS 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 MWS based project number assigned.
17. If a water service line is disconnected, the proper MWS 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 MWS for review and comment. MWS 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).



WATER & SANITARY SEWER: METRO WATER & SEWER 1600 2nd AVENUE NORTH NASHVILLE, TN 37208 CONTACT PERSON: MICHAEL MORRIS (615) 862-4570 michael.morris@nashville.gov	INSPECTION: METRO WATER & SEWER 1600 2ND AVENUE NORTH NASHVILLE, TN 37208 CONTACT PERSON: JUSTIN PENDLEY, PE (615) 862-4555 justin.pendley@nashville.gov	STORM WATER: METRO WATER & SEWER 1600 2nd AVENUE NORTH NASHVILLE, TN 37208 CONTACT PERSON: RICKY SWIFT (615) 862-4784 ricky.swift@nashville.gov	UTILITY OWNERS 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 NEVLS (615) 335-7929 don.nevls@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

CONSTRUCTION DETAILS

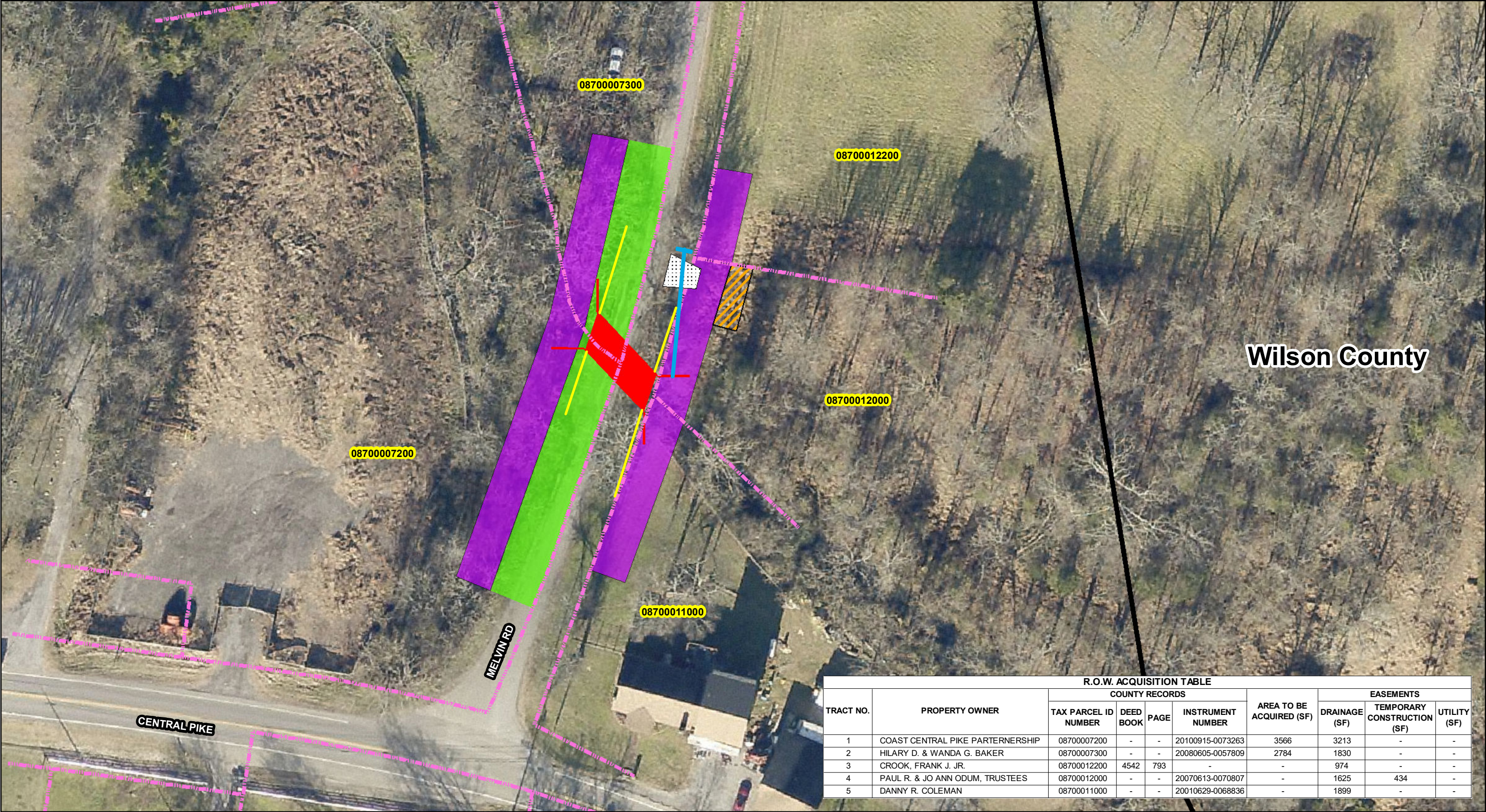
Contractor shall comply with all applicable and current MWS details located on the webpage. See Approved Construction Specifications and Details: (<https://www.nashville.gov/Water-Services/Developers/Water-and-Sewer.aspx>)

Applicable details of note for this project include:

- Water Details
- WDET001 (Valve Box Frame & Cover)
 - WDET002 (Standard Meter and Box)
 - WDET010 (Obstruction Crossing)
 - WDET010A (Crossing Under Box Bridge-Culvert)
 - WDET010B (Creek Crossing for Water Mains)
 - WDET010C (Thrust Collar)
 - WDET011 (Service Line)
 - WDET018 (1-inch Meter Box)
 - SDET014B (Utility Trench Check Dam)

FILE NO.	10-06-2020
DATE:	04/05/2023
DESIGNED BY:	AOS
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CONSOR ENGINEERS, LLC 25 LINDSLEY AVENUE, NASHVILLE, TN 37210 (615) 425-2000	
MWS PROJECT NUMBERS: 23WC0035	
SEALED BY	
METROPOLITAN GOVERNMENT OF NASHVILLE & DAVIDSON COUNTY, TENNESSEE NASHVILLE DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION	
2926 MELVIN ROAD BRIDGE REPLACEMENT	
UTILITY NOTES & DETAILS	
N.T.S.	
SHEET: 8 OF 9	

Melvin Road Ordinance & Mandatory Referral Exhibit





1 inch = 50 feet
0 30 60 Feet



 Property Line

 Proposed Guardrail

 Proposed Storm Pipe

 County Boundary

 Driveway Tie In

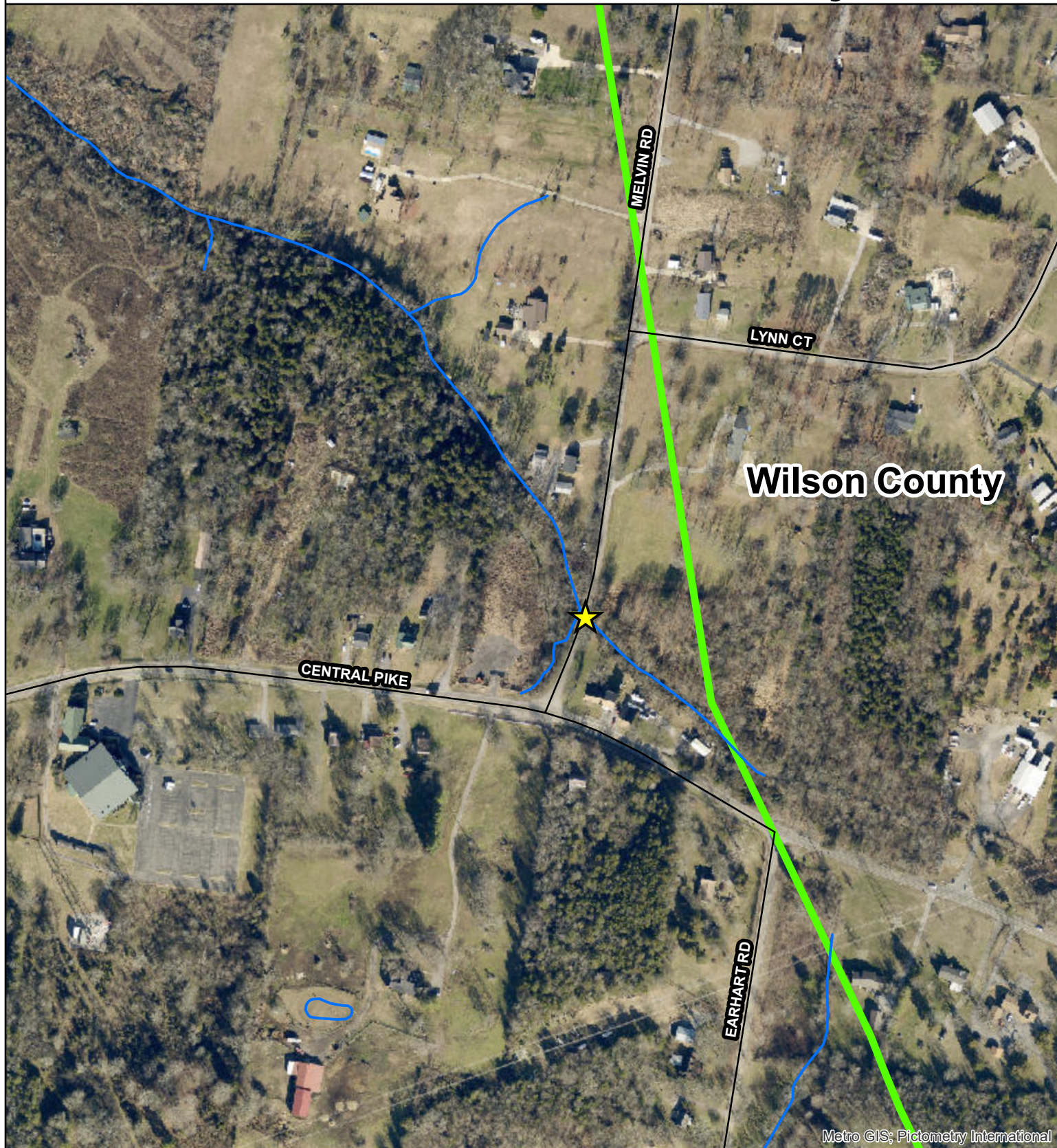
 Proposed Culvert

 Drainage Easement

 Right-of-Way Easement

 Temporary Construction Easement

2926 Melvin Road Culvert Project



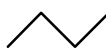
Legend



Culvert Location



County Boundary



Roads



Streams



Date Created: 8/30/2022



0 150 300

Feet

NDOT

Created By:

CONSOR

R.O.W. ACQUISITION TABLE								
TRACT NO.	PROPERTY OWNER	COUNTY RECORDS				AREA TO BE ACQUIRED (SF)	EASEMENTS	
		TAX PARCEL ID NUMBER	DEED BOOK	PAGE	INSTRUMENT NUMBER		DRAINAGE (SF)	TEMPORARY CONSTRUCTION (SF)
1	COAST CENTRAL PIKE PARTNERSHIP	08700007200	-	-	20100915-0073263	3566	3213	-
2	HILARY D. & WANDA G. BAKER	08700007300	-	-	20080605-0057809	2784	1830	-