

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

BEL-800-1.57

SOMERSET TOWNSHIP BELMONT COUNTY

PROJECT DESCRIPTION

IMPROVEMENT OF 0.08 MILES (395') ON S.R. 800 IN SOMERSET TOWNSHIP OF BELMONT COUNTY WITH THE CONSTRUCTION OF TWO DRILLED SHAFT WALLS TO REPAIR GEOTECHNICAL SLIPS, INCLUDING THE REPLACEMENT OF GUARDRAIL AND A 24" CONDUIT. THE PROJECT INCLUDES FULL-DEPTH PAVEMENT REPLACEMENT ON THE RIGHT SIDE AND MILLING AND FILLING THE SURFACE COURSE ON THE LEFT SIDE.

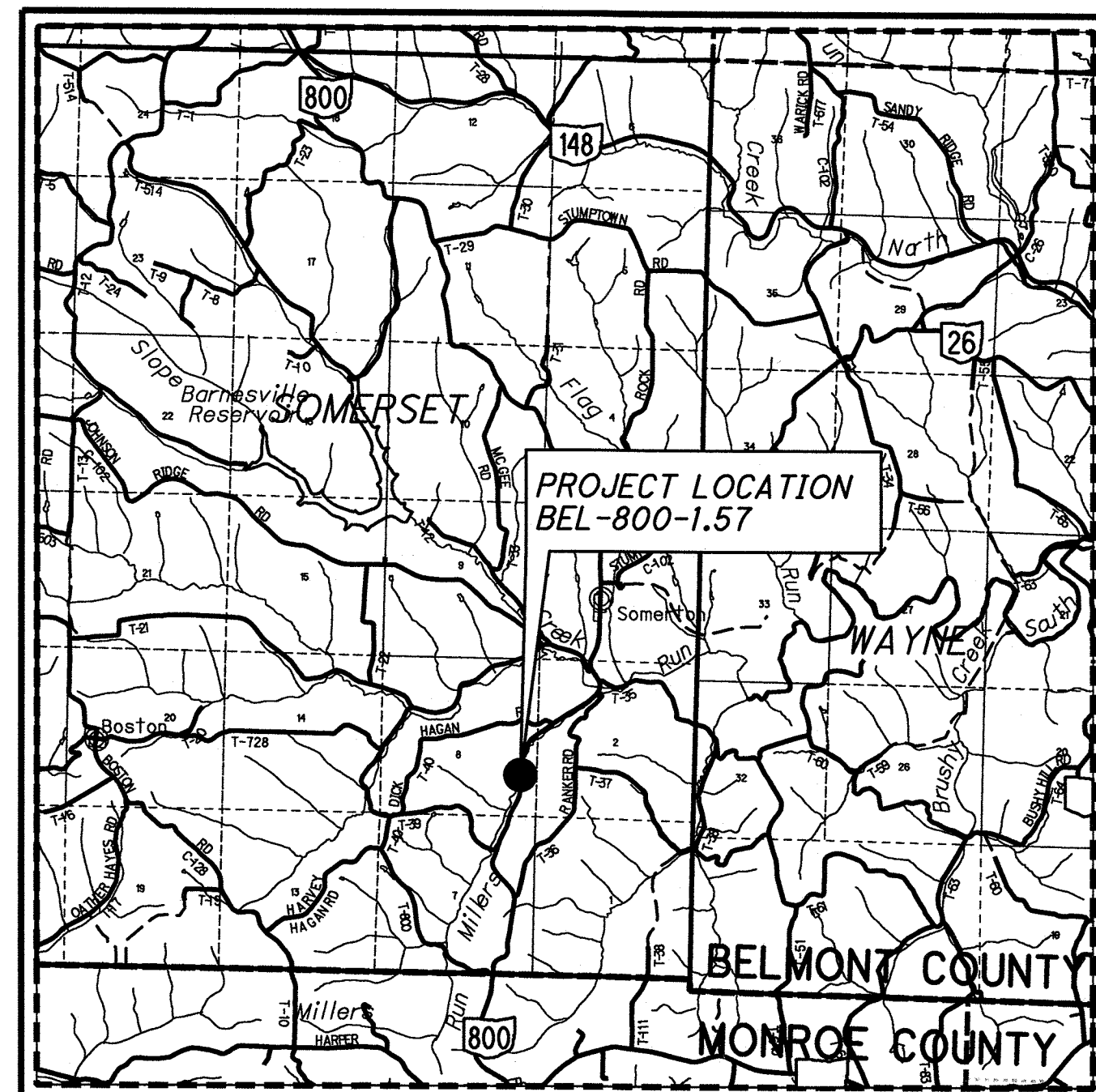
EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.5 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.3 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

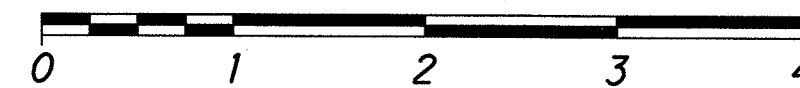
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 39 °53'15" LONGITUDE: 81 °08'45"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	-----

DESIGN DESIGNATION

CURRENT ADT (2023)	2700
DESIGN YEAR ADT (2043)	2900
DESIGN HOURLY VOLUME (2043)	300
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	15%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
04 - MINOR ARTERIAL (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

PLAN PREPARED BY:
ODOT DISTRICT 11
ENGINEERING DEPARTMENT
NEW PHILADELPHIA, OHIO

INDEX OF SHEETS:

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GEO TECHNICAL ENGINEER'S SEAL:

SIGNED: *C. Notz*
DATE: 10/6/2022

ROADWAY ENGINEER'S SEAL:

SIGNED: *D.A. Hoffman*
DATE: 10/6/2022

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MGS-1.1	7/16/21	MT-96.11	4/16/21	TC-41.20	10/18/13	800-2019 SEE PROPOSAL	WATERWAY
DM-1.1	7/17/20	MGS-2.1	1/19/18	MT-96.20	7/15/16	TC-42.20	10/18/13	832 7/15/22	PERMIT
DM-4.3	1/15/16	MGS-4.3	1/18/13	MT-96.26	1/18/19	TC-52.10	10/18/13	902 7/19/19	CONDITIONS
DM-4.4	1/15/16	MGS-5.3	7/15/16	MT-97.10	4/19/19	TC-52.20	1/15/21		1/3/23
		RM-4.2	4/17/20	MT-101.70	1/17/20	TC-61.30	7/19/19		
		HW-2.1	7/20/18	MT-101.75	1/17/20	TC-65.10	1/17/14		
		HW-2.2	7/20/18	MT-101.90	7/17/20	TC-65.11	7/15/22		

Added Date.

APPROVED *Thomas A. Carey*
DATE 10-6-2022 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO. **E191(555)**

PID NO. **109043**

CONSTRUCTION PROJECT NO. _____

RAILROAD INVOLVEMENT **NONE**

BEL-800-1.57

1/34

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BEGIN WORK
STA. 78+50.00

E191(555)
BEGIN PROJECT
STA. 80+10.00
S.L.M. 1.57

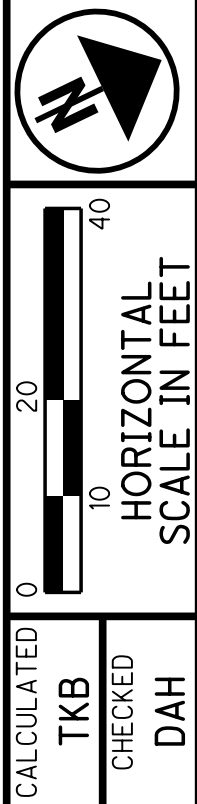
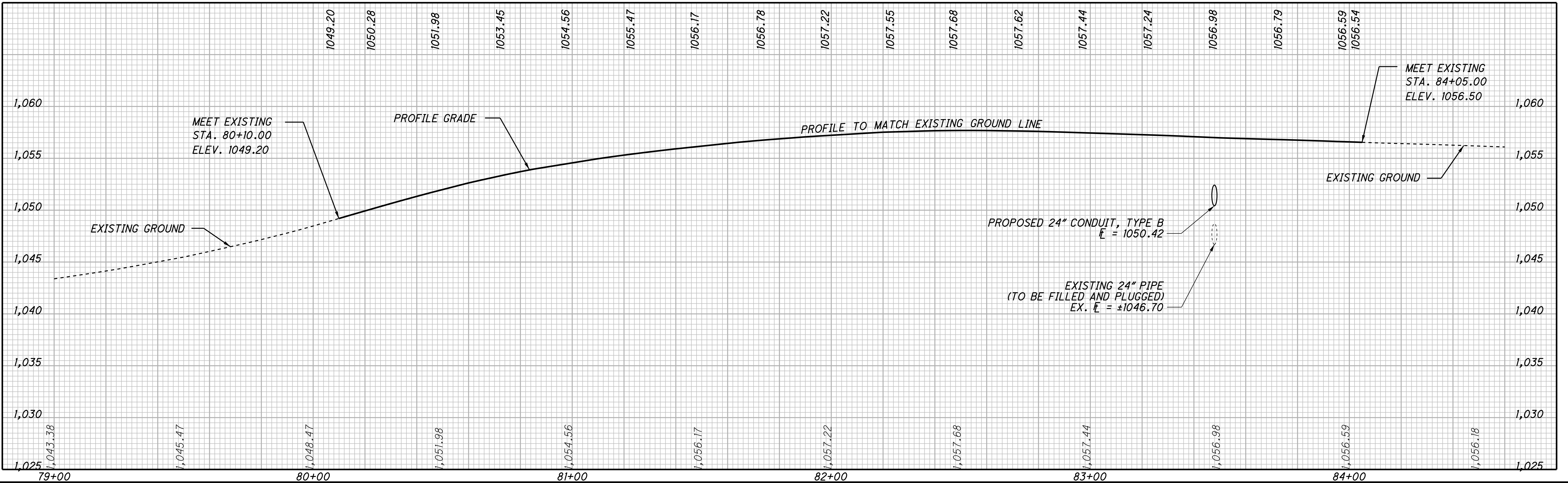
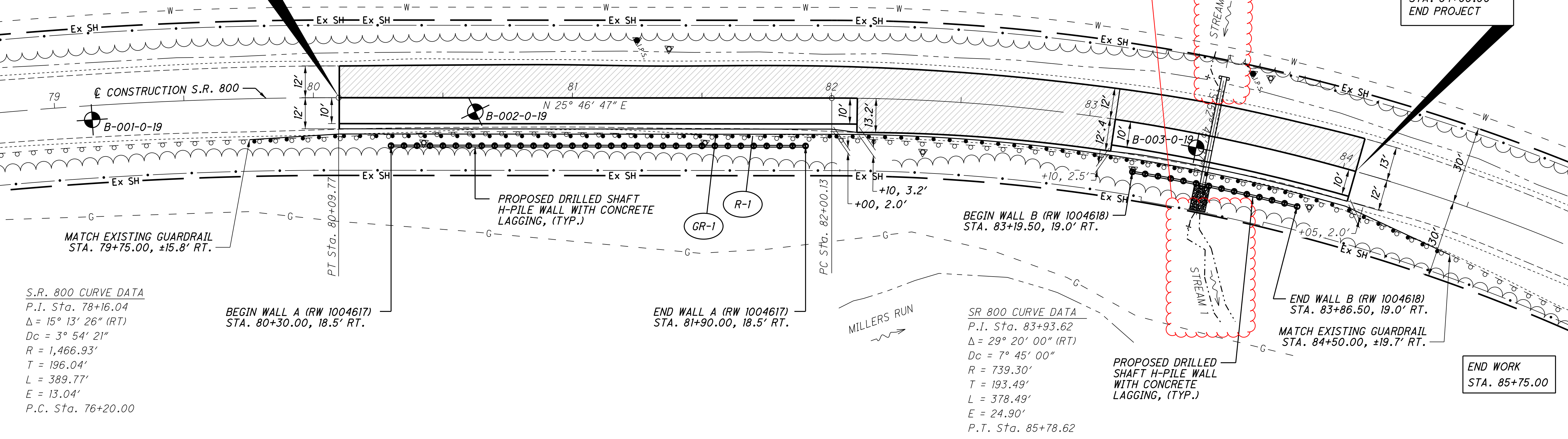
LEGEND:
SOIL BORING

FOR CONSTRUCTION LIMITS NOT SHOWN, SEE SHEETS 7-8.
FOR ESTIMATED QUANTITIES, SEE SHEET 14.
FOR WALL DETAILS, SEE SHEETS 26.
FOR CULVERT DETAILS AND QUANTITIES, SEE SHEET 27.

PLANING 1/4" AND RESURFACE PAVEMENT

E191(555)
S.L.M. 1.65
STA. 84+05.00
END PROJECT

END WORK
STA. 85+75.00



PLAN AND PROFILE
STA. 78+74.73 TO STA. 84+92.11

BEL-800-1.57

EXISTING CULVERT

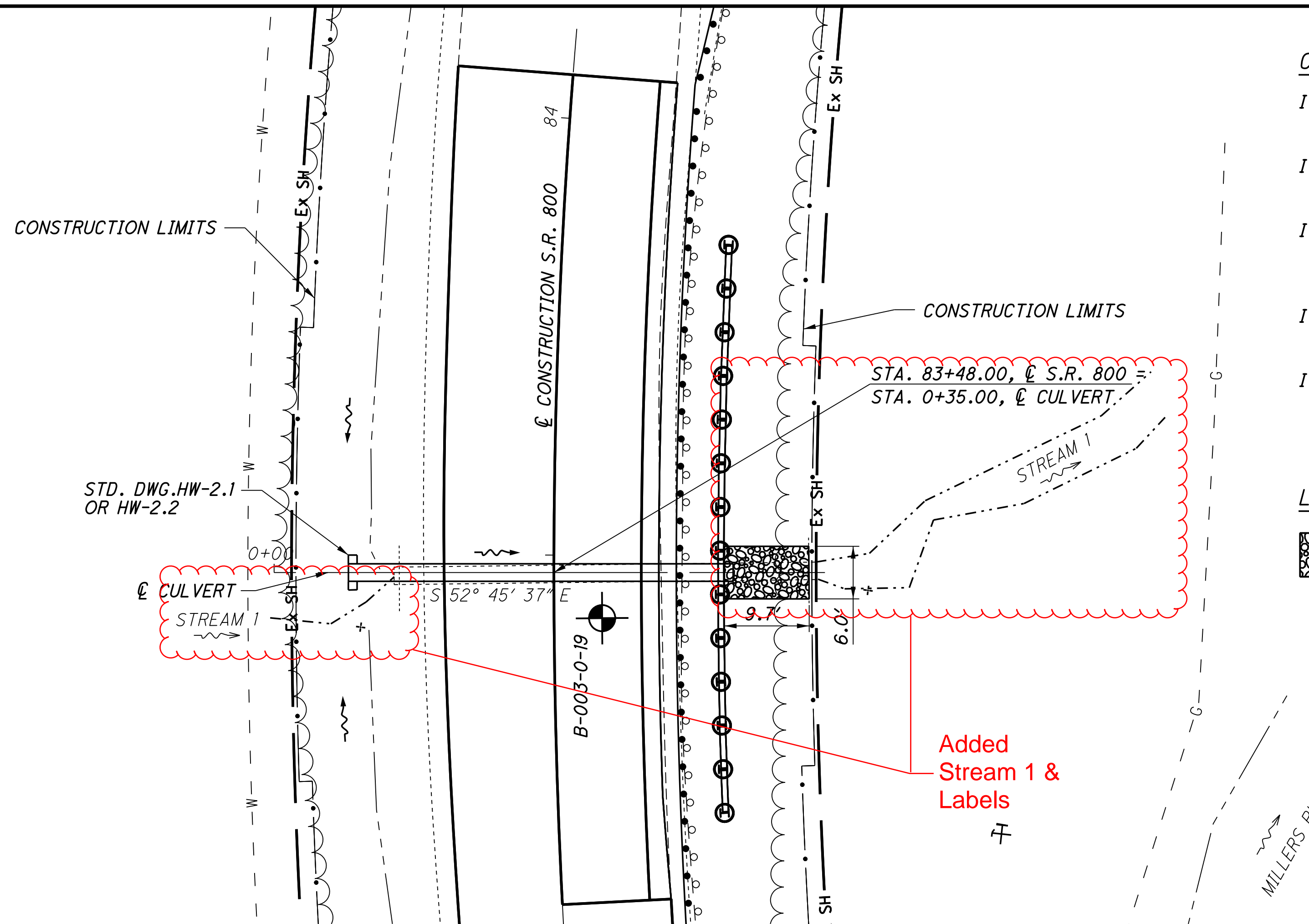
TYPE : 24" CMP
SKEW : 61° 25' 17.5" R. F. ALIGNMENT : TANGENT
WEARING SURFACE : ASPHALT CONCRETE
CULVERT FILE NO. : 1979775
DATE BUILT : UNKNOWN

HYDRAULIC DATA

DRAINAGE AREA = 8.2 ACRES
Q(25) = 16.4 CFS V(25) = 16.7 FT/S HW(25) = 1053.89
Q(100) = 19.3 CFS V(100) = 17.47 FT/S HW(100) = 1054.4
ORDINARY HIGH WATER MARK: 1036.85 FT
DESIGN SERVICE LIFE: 75 YRS.
pH: 7.7
ABRASION LEVEL: 1.0

PROPOSED CULVERT

TYPE : 24" CONDUIT, TYPE A
SKEW : NONE
ALIGNMENT : TANGENT
CULVERT FILE NO. : 1986941

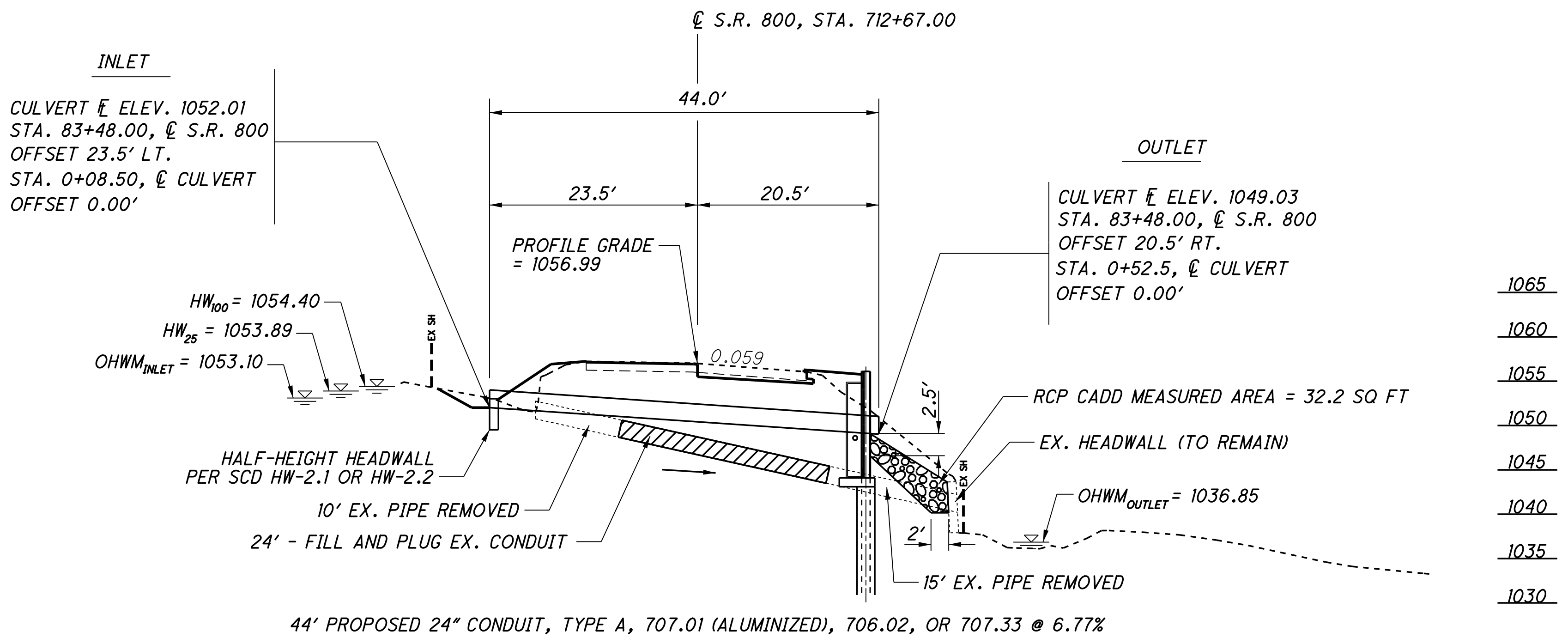


CALCULATIONS:

ITEM 202 - PIPE REMOVED, 24" AND UNDER	10' + 15' = 25'	USE 25 FT
ITEM 202 - SPECIAL - FILL AND PLUG EXISTING CONDUIT		USE 24 FT
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	32.2 SQ FT x 6.0 FT = 193.2 CU FT	193.2 CU FT ÷ 27 = 7.2 CU YD
ITEM 602 - CONCRETE MASONRY		USE 0.5 CU YD
ITEM 611 - 24" CONDUIT, TYPE A	707.01 (ALUMINIZED), 706.02, OR 707.33	USE 44 FT

LEGEND

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FILTER



44' PROPOSED 24" CONDUIT, TYPE A, 707.01 (ALUMINIZED), 706.02, OR 707.33 @ 6.77%

PROFILE ALONG C OF CULVERT

NOTE: PLACE THE ROCK CHANNEL PROTECTION FROM THE TOP OF THE EXISTING HEADWALL TO REMAIN DOWN TO THE INVERT OF THE OPENING IN THE EXISTING HEADWALL TO ALLOW FOR DRAINAGE FROM THE NEW CULVERT.

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