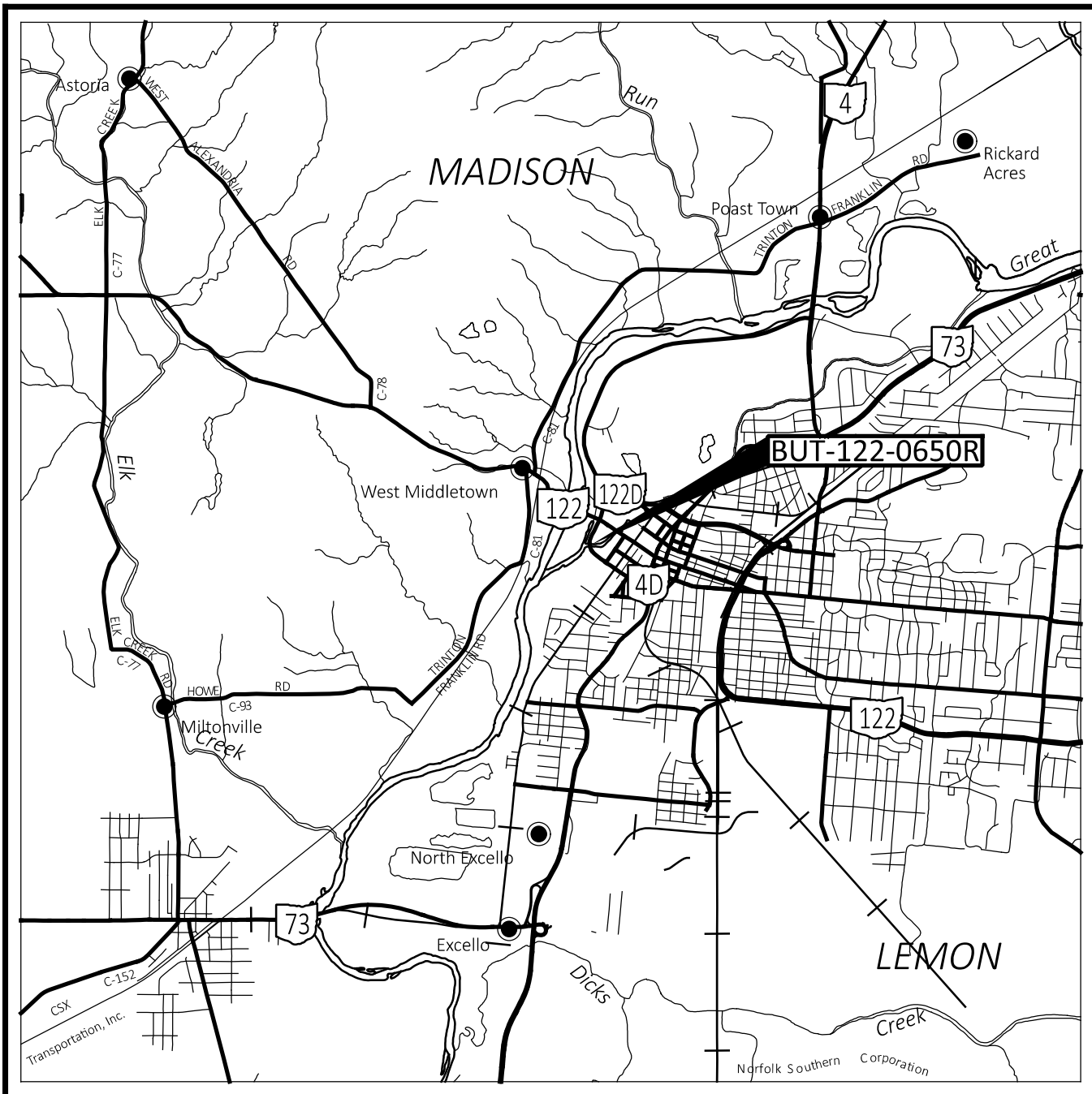


# DEPARTMENT OF TRANSPORTATION

***BUT SR 122 6.50R***

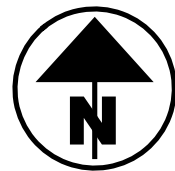
*CITY OF MIDDLETOWN*

**BUTLER COUNTY**



## LOCATION MAP

*LATITUDE: 39.516823    LONGITUDE: -84.410204*



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

## DESIGN DESIGNATION

CURRENT ADT (2026)	3,400
DESIGN YEAR ADT (2038)	3,600
DESIGN HOURLY VOLUME (2038)	450
DIRECTIONAL DISTRIBUTION	0.55
TRUCKS (24 HOUR B&C)	2.0%
DESIGN SPEED	50
LEGAL SPEED	45
DESIGN FUNCTIONAL CLASSIFICATION:	
03 PRINCIPAL ARTERIAL (URBAN)	
NHS PROJECT	NO

## DESIGN EXCEPTIONS

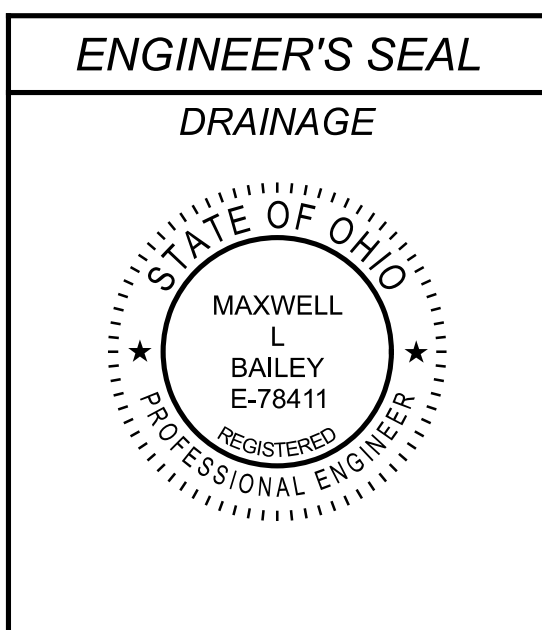
*NONE*

## ADA DESIGN WAIVERS

*NONE*

<b>UNDERGROUND UTILITIES</b>
Contact Two Working Days Before You Dig
 <b>OHIO811.org</b> Before You Dig
<b>OHIO811, 8-1-1, or 1-800-362-2764</b> (Non members must be called directly)

PLAN PREPARED BY:  
ODOT DISTRICT 8 ENGINEERING  
505 SOUTH SR 741  
LEBANON, OH 45036



**INDEX OF SHEETS:**

TITLE SHEET	01
GENERAL NOTES	02
MOT DETAILS	03
GENERAL SUMMARY	04
CULVERT PLAN & PROFILE	05

[illegible]**FEDERAL PROJECT NUMBER**

E250121

## RAILROAD INVOLVEMENT

NONE

## PROJECT DESCRIPTION

REHABILITATION OF EXISTING TRIPLE CULVERT OVER THE  
HYDRAULIC CANAL AT BUT-122-0650R CONSISTING OF  
LINING EACH OF THE CULVERTS.


## ***EARTH DISTURBED AREAS***


PROJECT EARTH DISTURBED AREA: 0.61 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 0.71 ACRES  
NO NOI REQUIRED

## 2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON 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

  
Douglas A. Gruver, P.E.  
District 08 Deputy Director

  
Pamela Boratyn  
Director, Department of Transportation

**BUT SR 122 6.50R**

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 8/13/2025 TIME: 6:40:31 AM USER: mbailey5  
 www.bentley.com:rhidoad-pw-02\Documents\01 Active Projects\District 08\Butler\112977400-Engineering\Roadway\Sheets\112977\_GT001.dgn

TITLE SHEET

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

YYY MM-DD-YY

XXX MM-DD-YY


PROJECT ID  
110077

112977

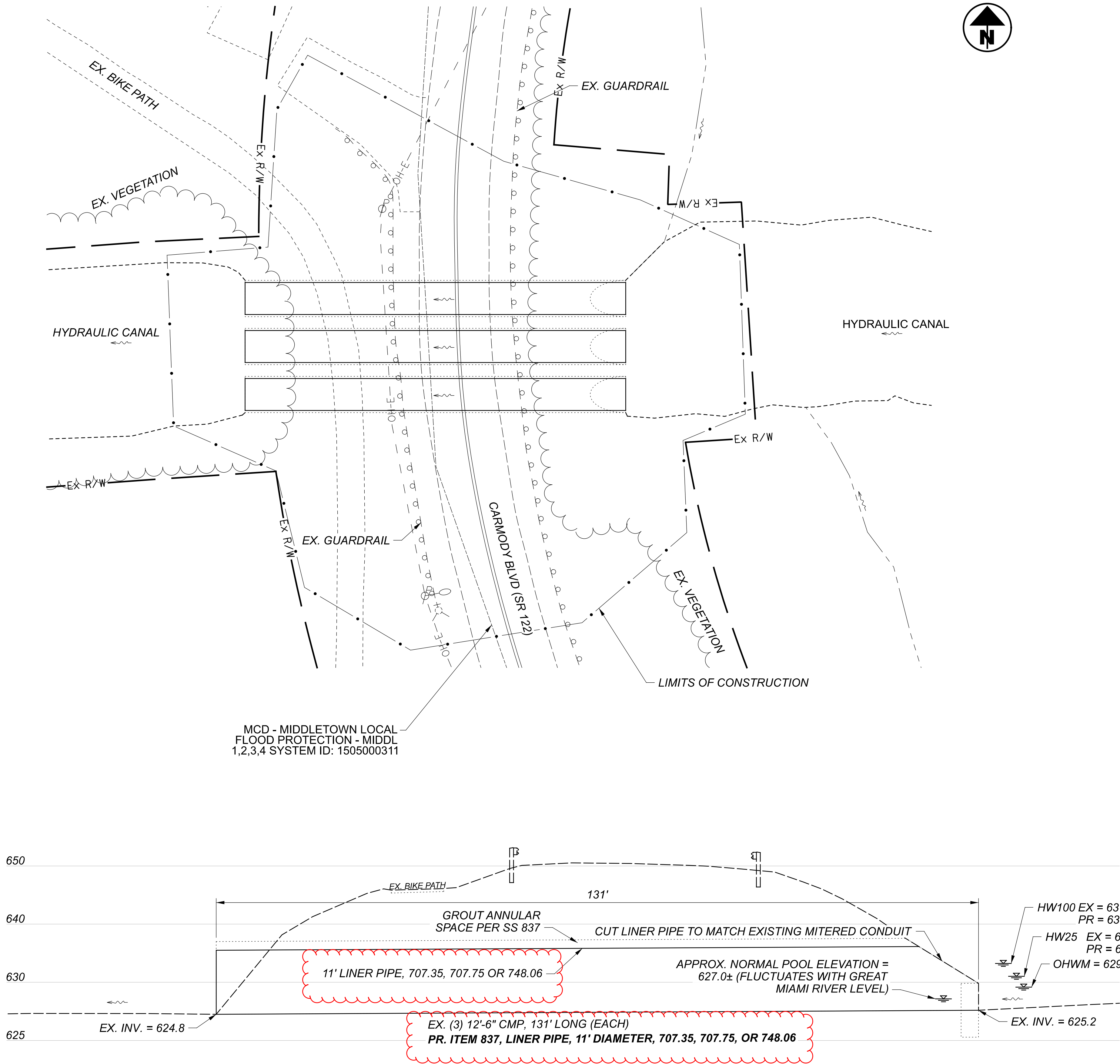
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01	05
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GENERAL SUMMARY	
DESIGN AGENCY	
	
DESIGNER	
MLB	
REVIEWER	
XXX MM-DD-YY	
PROJECT ID	
112977	
SHEET	TOTAL
04	05





**HYDRAULIC DATA**  
DRAINAGE AREA = 4.458 SQ. MI.  
Q25 = 821 CFS  
Q100 = 1039 CFS  
V 25 = 6.6 FPS  
V 100 = 5.6 FPS  
Q 2x HIGH MONTHLY = 24 CFS

REHABILITATE CULVERT BUT-122-0650R BY PERFORMING THE FOLLOWING WORK:

1. REMOVE TREES WITHIN THE R/W THAT ARE ALSO WITHIN 20 FEET OF THE STRUCTURE.
2. CLEAN EXISTING CULVERTS OF SEDIMENT AND DEBRIS AND ANY BITUMINOUS COATING THAT EXISTS PER THE NOTE ON THIS SHEET.
3. LINE THE EXISTING CORRUGATED METAL PIPES WITH A NEW PIPE OF SMALLER DIAMETER.
4. GROUT THE ANNULAR SPACE BETWEEN THE EXISTING PIPE AND THE HOST PIPE.

**EXISTING STRUCTURE**

TYPE: TRIPLE BARREL ROUND  
SIZE: 3 - 12'-6" DIAMETER, 131' LONG  
SKEW: 16° R.F.  
ALIGNMENT: TANGENT  
STRUCTURE FILE NUMBER (SFN): 0902233  
DATE BUILT: 1960  
CONDITION: POOR  
COORDINATES: LATITUDE: 39.516823  
LONGITUDE: -84.410204  
STREAM NAME: HYDRAULIC CANAL IN MIDDLETOWN  
OHWM: 629.2 (CULVERT INVERT = 625.2)

**ESTIMATED QUANTITIES (CARRIED TO GENERAL SUMMARY)**

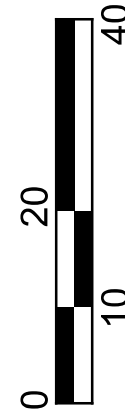
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LS	LS	CLEARING AND GRUBBING, AS PER PLAN
202	393	FT	PIPE CLEANOUT, OVER 48"
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
837	393	FT	LINER PIPE, 132", 707.35, 707.75, OR 748.06
837	393	FT	BACKFILL FOR LINER PIPE

**PIPE CLEANOUT**

REMOVE ANY LOOSE EXISTING BITUMINOUS COATING AND REMAINING BITUMINOUS MATERIAL COATING. REMOVE THE MATERIAL USING METHODS ACCORDING TO 512.03.F, MECHANICAL MEANS OR OTHER METHODS APPROVED BY THE ENGINEER. ANY BITUMINOUS COATING OR MATERIAL THAT SURVIVES A 7,000 PSI WATER BLASTING MAY REMAIN IN PLACE. ENSURE THAT ALL WASTES GENERATED BY THE SURFACE PREPARATION OPERATION ARE MANAGED IN ACCORDANCE WITH 107.19.

REMOVE SEDIMENT AND DEBRIS FROM EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

HORIZONTAL  
SCALE IN FEET



**BUT-122-0650R  
CULVERT PLAN & PROFILE**

DESIGN AGENCY



DESIGNER

MLB

REVIEWER

XXX MM-DD-YY

PROJECT ID

112977

SHEET

05

TOTAL

05