LIMITED ACCESS

ROAD WILL REMAIN CLOSED TO ALL TRAFFIC DURING CONSTRUCTION.

## 2019 SPECIFICATIONS

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

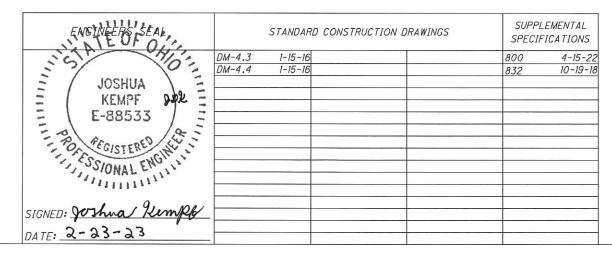
## COSHOCTON COUNTY ENGINEER'S OFFICE

## TR 338 BRIDGE 2 REPLACEMENT MONROE TOWNSHIP

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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE

COSHOCTON COUNTY ENGINEER

MONROE

MIATUUC

TR 338

NEW PRINCETON

LOCATION MAP

NOT SHOWN TO SCALE

LATITUDE: 40° 23′ 19″ LONGITUDE: -82° 03′ 51″

LOCATION TO BE IMPROVED\_\_\_\_\_

TOWNSHIP ROADS\_\_\_\_\_

COUNTY ROADS\_\_\_\_\_

STATE ROUTE \_\_\_\_

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THE CONTRACTOR IS RESPONSIBLE FOR CALLING THE OHIO UTILITIES PROTECTION SERVICE AT LEAST TWO DAYS BEFORE DIGGING.

ANY AND ALL WORK REQUIRED FOR REMOVING, RELOCATING & CONSTRUCTION OF NEW FACILITIES FOR PRIVATE OR PUBLIC UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THE RESPECTIVE OWNERS UNLESS OTHERWISE NOTED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR OPERATIONS WITH THE WORK OF UTILITY OWNERS OR OTHERS WHO MAY BE MAKING THE RELOCATIONS IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

STANDARD DRAWINGS

REFERENCE SHOULD BE MADE TO THE MOST CURRENT ODOT STANDARD DRAWINGS SHOWN IN THE TABLE ON THE COVER SHEFT.

BEST MANAGEMENT PRACTICES

BEST MANAGEMENT PRACTICES (BMP's) FOR SOIL EROSION AND SEDIMENT CONTROL SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S "CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL SUPPLEMENTAL, SPECIFICATION 832, AND STANDARD DRAWINGS" SHALL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL, ALONG WITH ADDITIONAL PROTECTIVE MEASURES TO AVOID IMPACTS TO ADJACENT PROPERTIES AND WETLANDS FROM CONSTRUCTION ACTIVITIES. EROSION/SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BMP'S FOR SOIL EROSION AND SEDIMENTATION CONTROL. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE PLAN SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA STABILIZED AS ACCEPTED BY THE ENGINEER. THEY SHALL ALSO COMPLY WITH ODOT'S "HANDBOOK OF SEDIMENT AND EROSION CONTROL."

REMOVAL OF TEMPORARY EROSION CONTROL

ITEMS
ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE
REMOVED BEFORE THE PROJECT IS ACCEPTED. REMOVED
MATERIALS SHALL BECOME THE PROPERTY OF THE
CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE
WITH THE APPROPRIATE C&MS SPECIFICATIONS

RIGHT OF WAY (ROW)

ALL NECESSARY CONSTRUCTION WILL BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY FOR THIS PROJECT.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY AASHTO 7TH EDITION - 2014, INCLUDING THE 2015 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL 2007.

<u>DESIGN LOADING</u>

HL-93 WITH 60 LBS/SQUARE FT WEARING SURFACE

DESIGN DATA

CONCRETE CLASS OCI - COMPRESSIVE STRENGTH 4,000 PSI (SUBSTRUCTURE). REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI.

ITEM 611 20' X 7' CONDUIT, TYPE A, 706.05,

AS PER PLAN
DESIGN COVER FOR 20' x 7' CONCRETE BOX CULVERT SHALL
BE 0' TO 2'. ALL #57 GRAVEL SHALL BE INCLUDED WITH THE
UNIT PRICE FOR ITEM 611 20' x 7' CONDUIT, TYPE A, 706.05,
AS PER PLAN.

WATERPROOFING

TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

ITEM 659 SEEDING AND MULCHING, AS PER PLAN SEEDING AND MULCHING AND 2 INCHES OF TOPSOIL SHALL BE APPLIED TO ALL DISTURBED AREAS.

ITEM 202 STRUCTURE REMOVED,

AS PER PLAN
REMOVE STRUCTURE ACCORDING TO CMS 202.03. ALL
SANDSTONE FROM STRUCTURE IS TO BE REMOVED AS
CAREFULLY AS POSSIBLE TO PREVENT DAMAGE. THE COUNTY
WILL RETAIN OWNERSHIP OF ALL SANDSTONE. ALL
SANDSTONE IS TO BE LOADED ON COUNTY OWNED TRUCKS
FOR TRANSPORT. ALL REMAINING MATERIAL ASSOCIATED WITH
THE STRUCTURE REMOVAL SHALL BE THE CONTRACTORS
RESPONSIBILITY FOR DISPOSAL.

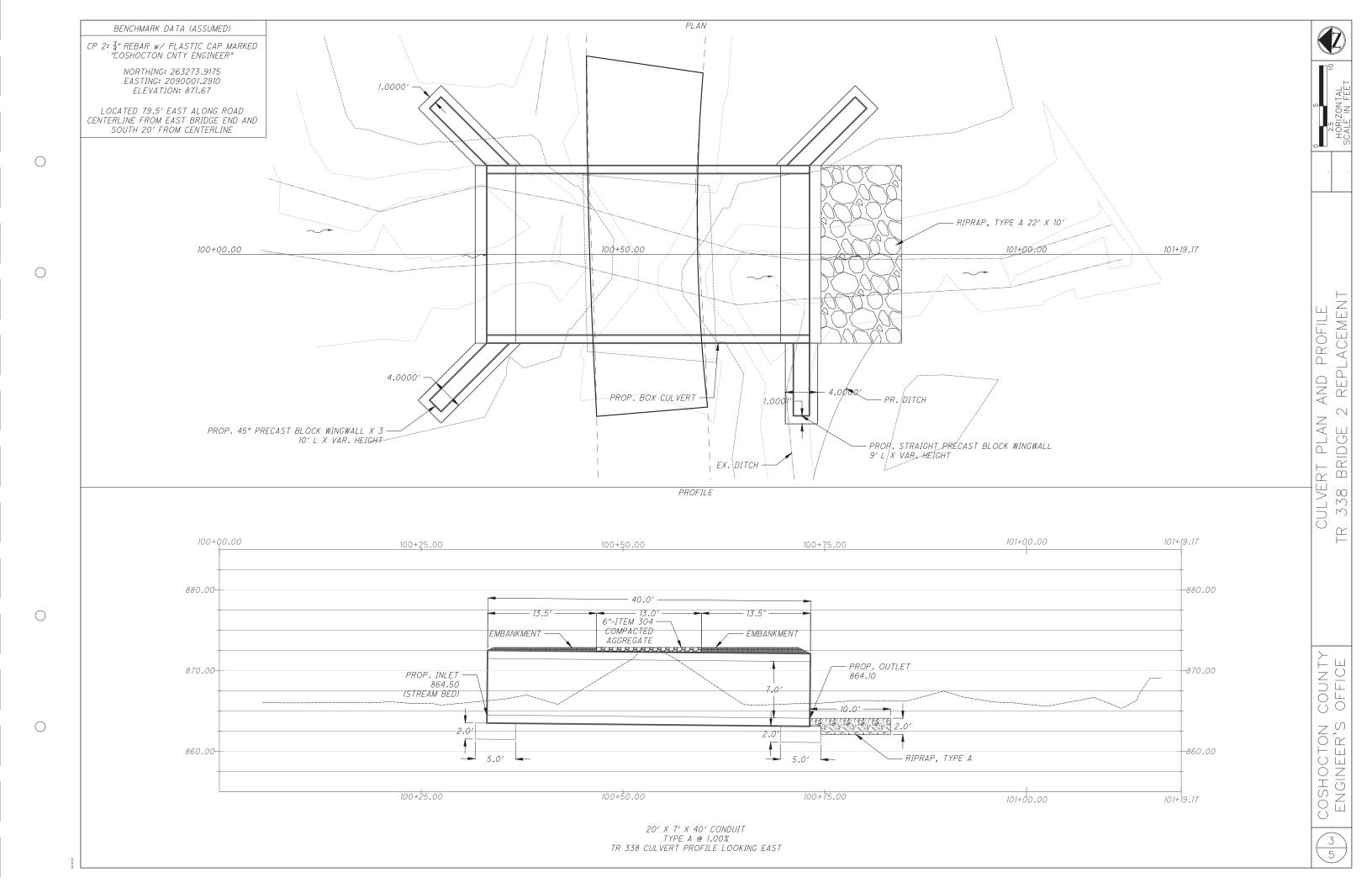
ITEM 602 MASONRY MISC .: PRECAST CONCRETE

BLOCK, AS PER PLAN
THE WINGWALLS SHALL BE PRECAST CONCRETE BLOCKS WITH
STONE TEXTURED FACE. THE BLOCKS SHALL BE INSTALLED
PER MANUFACTURER'S SPECIFICATION AND SHALL BE PAID
FOR UNDER THE LUMP SUM FEE FOR ITEM 602 MASONRY
MISC.: PRECAST CONCRETE BLOCK. BLOCK GROUND
REINFORCING, IF REQUIRED BY THE MANUFACTURER, SHALL
BE INSTALLED AS PER THE MANUFACTURER'S REQUIREMENTS.
THIS ITEM SHALL INCLUDE ALL MATERIALS AND LABOR
INCLUDING AGGREGATE LEVELING PAD, GROUND REINFORCING,
DRAIN PIPE, AND ANY OTHER ITEMS TO INSTALL.

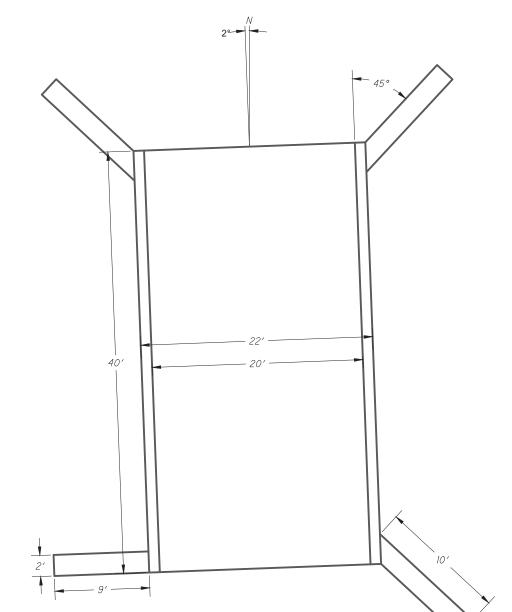
ITEM	ITEM	GRAND	UNIT	DESCRIPTION
I I EM	EXT	TOTAL		DESCRIPTION
201	11000	LS		CLEARING AND GRUBBING
202	11001	LS		STRUCTURE REMOVED, AS PER PLAN
203	20000	119	CY	EMBANKMENT
304	20000	14	CY	AGGREGATE BASE
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
503	21320	LS		UNCLASSIFIED EXCAVATION, INCLUDING ROCK
509	10000	881	LB	EPOXY COATED REINFORCING STEEL
511	46510	16.3	CY	CLASS QC1 CONCRETE, FOOTING
512	33000	107	SY	TYPE 2 WATERPROOFING
601	10970	25	SY	RIPRAP, TYPE A
602	98000	LS		MASONRY, MISC.: PRECAST CONCRETE BLOCK, AS PER PLAN
611	96487	40	FT	20' X 7' CONDUIT, TYPE A, 706.05, AS PER PLAN
613	41200	49	CY	LOW STRENGTH MORTAR BACKFILL
623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
624	10000	LS		MOBILIZATION
659	00501	LS		SEEDING AND MULCHING, CLASS 1, AS PER PLAN
832	30000	LS		EROSION CONTROL

GENERAL NOTES AND SUMMARY TR 338 BRIDGE 2 REPLACEMENT

COSHOCTON COUNTY ENGINEER'S OFFICE







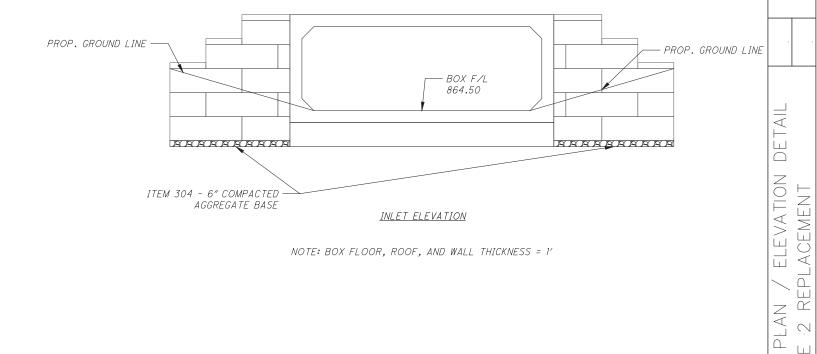
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CULVERT & WINGWALL LAYOUT



NOTE: BOX FLOOR, ROOF, AND WALL THICKNESS = 1'

