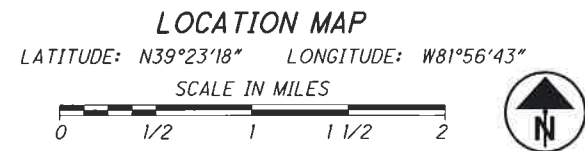
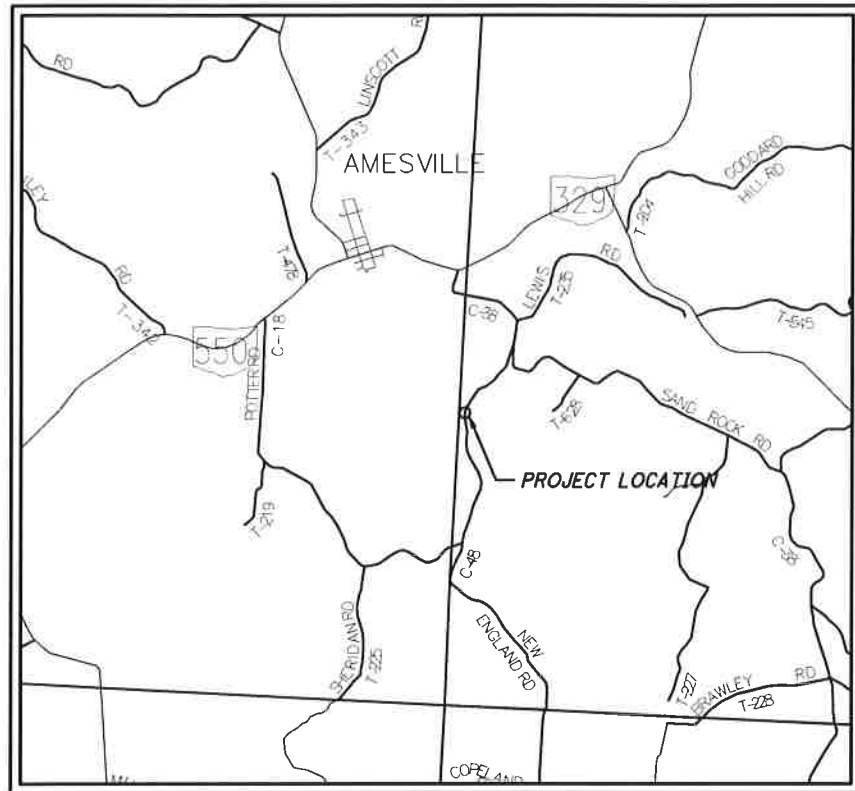



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UNDERGROUND UTILITIES	
CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG	
	CALL <b>1-800-362-2764</b> (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE CALL: <b>1-800-925-0988</b>	



PLANS PREPARED BY:  
ATHENS COUNTY ENGINEER'S OFFICE  
16000 CANAANVILLE RD  
ATHENS, OHIO 45701

ENGINEER'S SEAL	STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
 SIGNED: <i>Rex Maiden</i> DATE: <i>5/22/15</i>	DM-1.1	1-18-13	SS-800 4-17-15
	DM-1.2	1-18-13	SS-832 1-17-14
	DM-4.3	7-19-13	
	DM-4.4	7-20-12	
	F-2.1	7-19-13	
	F-3.4	7-19-13	
	MT-97.10	7-18-14	
	MT-101.60	7-19-13	
	MT-101.70	1-17-14	
	MT-105.10	7-19-13	

ATHENS COUNTY ENGINEER

# NEW ENGLAND ROAD SLIP REPAIR PROJECT

## PROJECT DESCRIPTION

SLOPE RECONSTRUCTION TO REPAIR A LANDSLIDE ON CR48-NEW ENGLAND ROAD. PROJECT ALSO INCLUDES FULL DEPTH PAVEMENT REPAIR.

## 2013 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.

## INDEX OF SHEETS:

TITLE SHEET	1
GENERAL NOTES & GENERAL SUMMARY	2
SITE PLAN	3
CROSS SECTIONS	4-6

OPWC PROJECT NO.:

CU38R

PROJECT NO.:

15068

CONSTRUCTION PROJECT NO.:

RAILROAD INVOLVEMENT

NONE

NEW ENGLAND RD  
SLIP REPAIR PROJECT

1  
6

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CONTRACT SPECIFICATIONS  
THE JANUARY 1, 2013 VERSION OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AS PUBLISHED BY THE OHIO DEPARTMENT OF TRANSPORTATION SHALL GOVERN ALL ASPECTS OF THE CONTRACT WORK. THE CONTRACTOR SHOULD BE FAMILIAR WITH THESE SPECIFICATIONS AND THEIR PROCEDURAL REQUIREMENTS.

STANDARD DRAWINGS  
REFERENCE SHOULD BE MADE TO THE STANDARD DRAWINGS SHOWN IN THE TABLE ON THE COVER SHEET.

UTILITIES  
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

(1) ELECTRIC

AMERICAN ELECTRIC POWER  
9135 SR 682  
IRONTON, OHIO 45701  
CONTACT: CHRIS McDANIELS  
PHONE: 740-532-9927

(2) TELEPHONE

FRONTIER COMMUNICATIONS  
754 W UNION ST  
ATHENS, OHIO 45701  
CONTACT: JEFF SCHOONOVER  
PHONE: 740-592-0545

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITY LINES  
ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY(IES). THE CONTRACTOR AND UTILITY ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

ELEVATION DATUM  
ALL ELEVATIONS ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD 88) AND THE GEOID 12A. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE SOUTH ZONE 3402.

PROFILE AND ALIGNMENT  
PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

CLEARING AND GRUBBING  
ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING

SAFETY  
THE CONTRACTOR AND SUB-CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 IS REQUIRED OF ALL CONTRACTORS ON THE PROJECT.

ADDITIONAL SOILS INFORMATION  
THE SUBSURFACE INVESTIGATION INFORMATION IS AVAILABLE IN THE BID SPECIFICATIONS BOOKLET.

BENCHING OF FOUNDATION SLOPES  
ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

SPECIAL BENCHING SLOPE DRAINS  
PLACE SPECIAL BENCHING SLOPE DRAINS AT THE LOCATIONS SHOWN ON THE PLAN & PROFILE AND CROSS SECTION SHEETS. THESE DRAINS SHALL CONSIST OF ITEM 203 GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE), ITEM 690 GEOTEXTILE FABRIC, 712.09 TYPE A, AND ITEM 603 CONDUIT TYPE E, 707.31 PERFORATED). THE TYPE E CONDUIT SHALL BE PERFORATED AS PER CONDUIT FOR ITEM 605 UNCLASSIFIED PIPE UNDERDRAINS. THE GRANULAR EMBANKMENT SHALL BE PLACED IN LIFTS AS THE SPECIAL BENCHING BACKFILL IS CONSTRUCTED. TRANSVERSE OUTLET DRAINS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLAN & PROFILE AND CROSS SECTION SHEETS. THESE OUTLET DRAINS SHALL CONSIST OF ITEM 603 CONDUIT TYPE F, 707.33 WITH ITEM 604 PRECAST REINFORCED CONCRETE OUTLETS.

ITEM 203 - EMBANKMENT USING NO. 8 AGGREGATE  
FURNISH DURABLE, NATURAL AGGREGATE NO. 8 SIZE. PLACE THE AGGREGATE AT THE THICKNESS AND SLOPE AS SHOWN ON THE CROSS-SECTIONS. THIS ITEM SHALL ALSO INCLUDE THE COST OF THE GEOTEXTILE FABRIC.

ITEM 203 - ROCK  
THE ROCK TOE EMBANKMENT TOE AS SHOWN ON CROSS SECTIONS 0+10 TO STATION 0+90 SHALL CONSIST OF TYPE D RCP WITH A MAXIMUM DIAMETER OF EIGHT INCHES (8").

ITEM 203 - EMBANKMENT (COMPACTION REQUIREMENTS)  
CONTRACTOR SHALL PAY SPECIAL ATTENTION TO SECTION 203 OF THE CMS, SPECIFICALLY SECTION 203.07 - COMPACTION AND MOISTURE REQUIREMENTS. ALL EMBANKMENT SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 98 PERCENT OF THE MAXIMUM DRY DENSITY.

COMPACTION TESTING  
COSTS FOR COMPACTION TESTING WILL BE PAID FOR BY THE COUNTY ENGINEER. CONTRACTOR SHALL GIVE A 48 HOUR NOTICE BEFORE EMBANKMENT WORK BEGINS.

SEEDING AND MULCHING  
THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING - 355 SQ. YD.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL AS PART OF CONSTRUCTION. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ROAD CLOSED/MAINTENANCE OF TRAFFIC  
COUNTY ROAD 48 WILL BE CLOSED FOR A MAXIMUM OF 45 DAYS. LOCAL TRAFFIC WILL BE DETOURED.

ITEM 614 - MAINTAINING TRAFFIC  
THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48" X 30" - "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS, AS DETAILED IN STANDARD CONSTRUCTION DRAWING MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC.

THE ATHENS COUNTY ENGINEER WILL PROVIDE THE SIGNS FOR THE DETOUR ROUTE, AND WILL MAINTAIN THE DETOUR SIGNS.

GENERAL SUMMARY				CALCULATED DES	CHECKED RJM
ITEM NO.	ITEM DESCRIPTION	QTY	UNIT		
	ROADWAY				
201	Clearing & Grubbing	1	LS		
202	Pipe Removed, 24" and Under	40	FT		
202	Fence Removed	100	FT		
203	Excavation	955	CY		
203	Embankment (Slope Reconstruction)	747	CY		
203	Embankment Using No. 8 Aggregate	69	CY		
203	Rock	269	CY		
204	Subgrade Compaction	214	SY		
607	Fence, Type 47	114	FT		
	EROSION CONTROL				
601	Rock Channel Protection, Type D	85	CY		
659	Seeding & Mulching	355	SY		
	DRAINAGE				
605	6" Base Pipe Underdrains	160	FT		
611	24" Conduit, Type B	40	FT		
611	6" Conduit Type F for Underdrain Outlets	45	FT		
	PAVEMENT				
301	Asphalt Concrete Base	23	CY		
304	Aggregate Base	41	CY		
448	Asphalt Surface Course	12	CY		
	INCIDENTALS				
103	Bond	1	LS		
614	Maintaining Traffic	1	LS		
623	Construction Layout Stakes	1	LS		
624	Mobilization	1	LS		

NEW ENGLAND RD  
SLIP REPAIR PROJECT

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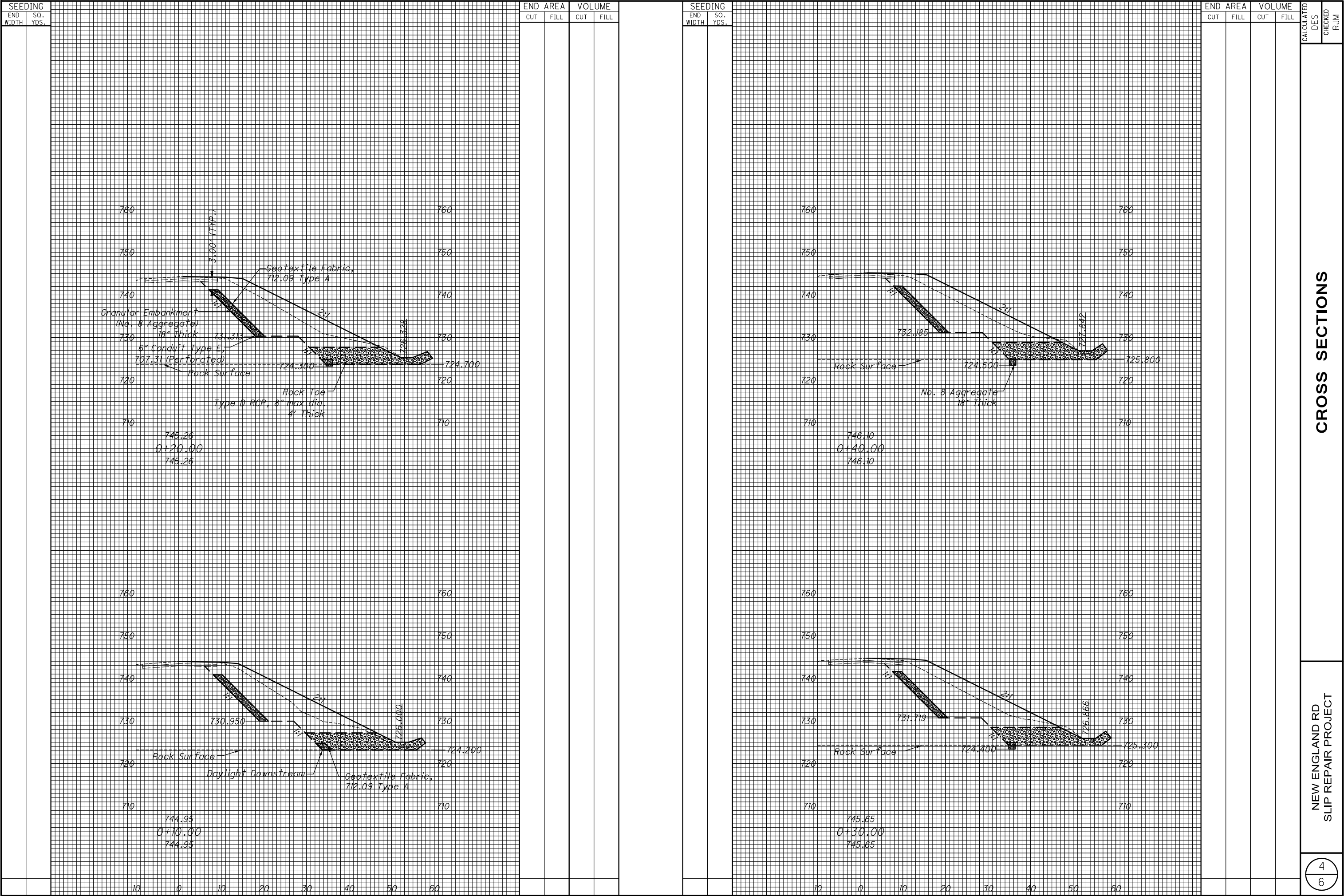
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- ① ITEM 448 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- ② ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22
- ③ ITEM 304 - 6" AGGREGATE BASE
- ④ ITEM 204 - SUBGRADE COMPACTION
- ⑤ ITEM 617 - 4" COMPACTED AGGREGATE
- ⑥ ITEM 659 - SEEDING AND MULCHING



CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1	506137.507	2125256.639	743.63	HUB
CP #2	506025.863	2125281.492	750.185	HUB

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