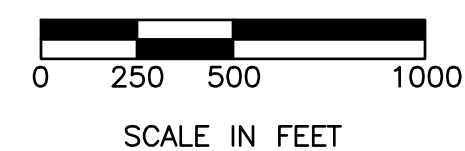


PEASE TOWNSHIP, BELMONT COUNTY, OHIO

THIS PROJECT CONSISTS OF THE RECONSTRUCTION OF THE EXISTING ROADWAY EMBANKMENT ALONG A PORTION OF TOWNSHIP ROAD 469 (PATTONS RUN ROAD) WHERE SLOPE FAILURE HAS OCCURRED.

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



STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
ODOT STANDARD CONSTRUCTION DRAWINGS		
<i>MT-101.60</i>	<i>1/20/17</i>	
<i>MT-105.10</i>	<i>7/19/13</i>	
<i>MGS-2.1</i>	<i>1/9/18</i>	
<i>MGS-4.1</i>	<i>1/20/17</i>	




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STATE OF OHIO
Allen J. Smith Jr.
 ALLEN J. SMITH JR.
 E-71835
 REGISTERED
 PROFESSIONAL ENGINEER

STATE: OHIO P.E. 71835

No.	REVISION	DATE	DESIGNED BY:
			CJG
			DRAWN BY:
			CJG/LAF
			CHECKED BY:
			AJS
			PROJECT NO.
-			30442

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
ROADWAY SLOPE REPAIR PLANS
FOR PATTONS RUN - SITE 1
TITLE SHEET

APPLICATION NO.	
DATE:	2025-07-03
SCALE:	AS NOTED
SHEET:	1

GENERAL NOTES

GENERAL:

THE O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS, METHODS OF CONSTRUCTION AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

UTILITY LOCATIONS:

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY SECTION 153.64 ORC. LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND ELEVATION WHEN WORKING IN THEIR VICINITY.

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT THE EXACT ELEVATION MAY BE DETERMINED AND THE NECESSARY ADJUSTMENTS MADE. COST OF THE ABOVE, IF ANY, WILL BE INCLUDED IN THE PRICE BID FOR THE PERTINENT ITEM.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITY LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE PERTINENT ITEM, UNLESS OTHERWISE NOTED ON THE PLANS.

REVIEW OF PROJECT SITE:

PRIOR TO BIDDING THE CONTRACTOR SHALL, BY PERSONAL EXAMINATION, SATISFY THEMSELF AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT THEMSELF THOROUGHLY WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK.

SURPLUS EXCAVATION:

THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL SURPLUS EXCAVATION.

MISCELLANEOUS WORK:

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

INCLUSIVE BID:

THE CONTRACTOR'S BID SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT. COMPENSATION FOR ANY WORK WHICH DOES NOT HAVE A SPECIFIC PAY ITEM WILL BE INCLUDED IN THE PRICE BID FOR THE INDIVIDUAL ITEMS.

PRIOR TO COMMENCEMENT OF WORK:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY ADDITIONAL SUBCONTRACTORS REQUIRED.

THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE TO THE OWNER REFLECTING ALL WORK THAT IS TO BE CONDUCTED.

THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER, OR HIS REPRESENTATIVE, A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK, HOLIDAYS AND WEEKENDS EXCLUDED.

WHEN THE CONTRACTOR SUSPENDS OPERATIONS FOR TWO (2) OR MORE WORKING DAYS, HE SHALL NOTIFY THE PROJECT OWNER, OR HIS REPRESENTATIVE, A MINIMUM OF TWENTY-FOUR (24) HOURS BEFORE RESUMING WORK.

AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UTILITY FACILITY SHOWN IN THE PLANS.

EMERGENCY PHONE NUMBER:

THE CONTRACTOR SHALL PROVIDE THE PROJECT OWNER WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. COSTS AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTOR'S RESPONSIBILITY AND NOT THAT OF THE PROJECT OWNER.

WORKING HOURS:

WORKING HOURS ARE LIMITED TO 7:00AM TO 7:00PM MONDAY THROUGH FRIDAY & 7:00AM TO 5:00PM ON SATURDAY. NO WORK SHALL BE PERFORMED ON SUNDAY OR HOLIDAYS WITHOUT PRIOR WRITTEN APPROVAL. IF THE CONTRACTOR NEEDS TO WORK ON A SUNDAY OR A HOLIDAY, HE SHALL SUBMIT HIS REQUEST STATING THE REASONS FOR WORKING THOSE DAYS TO THE PROJECT OWNER A MINIMUM OF TWO BUSINESS DAYS PRIOR TO THE HOLIDAY OR SUNDAY. SHOULD THE OWNER/SCHEDULE REQUIRE WORK DURING NON-NORMAL WORKING HOURS PERMISSION SHALL BE REQUESTED FROM ALL ENTITIES WITH JURISDICTION OVER THE WORK.

WEATHER CONDITIONS:

ALL CONSTRUCTION AND MATERIAL USAGE SHALL BE IN ACCORDANCE WITH CLIMATIC CONDITIONS ADDRESSED IN CURRENT ISSUE OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

SANITARY FACILITIES:

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

SURVEYS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION. ALL CONSTRUCTION STAKING SHALL BE DONE BY OR UNDER THE DIRECTION OF A PROFESSIONAL REGISTERED SURVEYOR.

MODIFICATIONS:

ANY MODIFICATIONS OR CHANGES TO THE WORK, AS SHOWN ON THE DRAWINGS, MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER AND PROJECT OWNER.

PROTECTION AND RESTORATION OF PROPERTY:

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL PRIVATE AND PUBLIC PROPERTY IMPACTED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH 107.10 OF ODOT CMS

LEGAL DIMENSION AND WEIGHT LIMITS:

PURSUANT TO SECTIONS 5577.04 AND 5577.05 OHIO REVISED CODE (ORC), LEGAL LIMITS FOR DIMENSIONS AND WEIGHTS FOR HIGHWAY VEHICLES WERE AMENDED EFFECTIVE OCTOBER 1, 1992. THE AMENDED ORC MAY AFFECT THE CONTRACTOR'S COST FOR PERFORMING THE VARIOUS ITEMS OF WORK ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FACTOR ANY ADDITIONAL COSTS RESULTING FROM THE AMENDED ORC INTO THE UNIT BID PRICE FOR THE VARIOUS ITEMS OF WORK TO BE PERFORMED ON THIS PROJECT. NO ADDITIONAL REIMBURSEMENT FOR THE COSTS WILL BE PAID BY THE PROJECT OWNER.

SAFETY

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR COMPLYING WITH 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 CONTRACTOR'S RESPONSIBILITY TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING THE PROJECT SITE FROM THE GENERAL PUBLIC BOTH DURING AND AFTER WORKING HOURS. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL LIGHTS, SIGNS, FENCES, OR ANY OTHER SAFETY DEVICE TO PREVENT UNAUTHORIZED PERSONNEL FROM HAZARDOUS OR DANGEROUS CONDITIONS ON THE PROJECT SITE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID FOR FURNISHING AND INSTALLING MATERIALS ON THIS PROJECT.

WORK LIMITS:

THE CONTRACTOR SHALL CONFINЕ HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND/OR PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.

ALL ADJOINING PROPERTIES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO THE SAME OR BETTER CONDITION. THIS INCLUDES GRADING, SEEDING, AND REMOVAL OF EXCESS MATERIAL.

SHOP DRAWINGS AND/OR PRODUCT DATA:

THE CONTRACTOR SHALL SUBMIT FOR THE PROJECT OWNER'S, OR HIS REPRESENTATIVE'S, APPROVAL, THREE COPIES OF THE SHOP DRAWINGS AND/OR PRODUCT DATA. ALLOW 15 DAYS FOR REVIEW AND APPROVAL. TWO COPIES OF THE APPROVED SHOP DRAWINGS AND/OR PRODUCT DATA WILL BE RETAINED BY THE PROJECT OWNER AND ONE COPY WILL BE RETURNED TO THE CONTRACTOR.

IRON PINS AND MONUMENTS:

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR EMPLOYED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO THE PROJECT OWNER OR THE PROPERTY OWNERS.

NON-RUBBER TIRE VEHICLES:

NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON ANY STREETS. EXCEPTIONS MAY BE GRANTED BY THE PROJECT OWNER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE PROJECT OWNER. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NON-RUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NON-RUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS OR OTHER MEANS AS APPROVED BY THE PROJECT OWNER'S REPRESENTATIVE, SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

PAVEMENT CLEANING:

THE CONTRACTOR IS HEREBY NOTIFIED THAT HE/SHE SHALL BE RESPONSIBLE FOR CLEANING OF STREETS OR ANY MUD, DIRT, SAND, GRAVEL, STONES, OR ANY KIND OF MATERIAL THAT HAVE DEPOSITED AS A RESULT OF HIS/HER OR SUBCONTRACTOR'S OPERATIONS. PAVEMENTS SHALL BE CLEANED AT THE END OF EACH WORK DAY OR MORE OFTEN AS DETERMINED BY THE PROJECT OWNER OR ITS REPRESENTATIVE.

DUST CONTROL:

THE CONTRACTOR IS ADVISED THAT HIS WORK WILL BE IN PROXIMITY TO OCCUPIED RESIDENCES. THEREFORE, IT IS EXPECTED THE CONTRACTOR WILL PERFORM HIS/HER EARTHWORK OPERATIONS TO MINIMIZE DUST. WHEN CONDITIONS ARE SUCH THAT DUST BECOMES A MAJOR PROBLEM OR AS ADVISED BY THE PROJECT OWNER, THE CONTRACTOR WILL APPLY A DUST PALLIATIVE PER ODOT ITEM 616.

CONTROLLED FILL:

TYPE I - COHESIVE SOIL (EMBANKMENT) FILL

SATISFACTORY CONTROLLED COHESIVE SOIL FILL MATERIAL FOR FILL SLOPES INCLUDES LEAN CLAY, FAT CLAY (LL<60), OR SILTY/CLAYEY SANDS THAT ARE FREE OF TOPSOIL, COAL FRAGMENTS LARGER THAN 1 INCH, ORGANIC OR OTHER DECOMPOSABLE MATTER, ROCKS HAVING A MAJOR DIMENSION GREATER THAN 9 INCHES, OR FROZEN SOIL. COHESIVE CONTROLLED FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE, WHICH MAY INCLUDE RECONDITIONED MINE SPOIL. CONTROLLED BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM 8-INCH LOOSE LIFTS WITH EACH LIFT COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 AND AT A MOISTURE CONTENT WITHIN ±3% OF OPTIMUM. MOISTURE CONTENT OF HIGHER PLASTICITY CLAYS (FAT CLAYS) SHOULD BE KEPT BETWEEN OPTIMUM AND ±3% ABOVE OPTIMUM MOISTURE. SOILS HAVING A MAXIMUM DRY DENSITY OF LESS THAN 90 POUNDS PER CUBIC FOOT AS DETERMINED BY THE MOISTURE DENSITY RELATIONSHIP (ASTM D698 STANDARD PROCTOR), RECLAIMED ASPHALT CONCRETE PAVEMENT, AND SLAG ARE NOT CONSIDERED SUITABLE FOR USE AS CONTROLLED FILL. SLICKENSIDES MATERIAL SHALL BE REMOVED FROM THE CONTROLLED EMBANKMENT FILL MATERIAL.

TYPE II - ROCK (EMBANKMENT) FILL

SATISFACTORY CONTROLLED ROCK FILL MATERIAL FOR PROJECT FILL EMBANKMENTS INCLUDES DURABLE SHALE, SILTSTONE, SANDSTONE, AND LIMESTONE ROCK AVAILABLE FROM ONSITE EXCAVATIONS OR IMPORTED FROM OFFSITE. ROCK FILL MAY BE MIXED WITH UP TO 35% (BY VISUAL INSPECTION) OF TYPE 1 FILL MATERIAL. REDUCE THE ROCK PARTICLE SIZE UNTIL IT IS SMALL ENOUGH TO BE INCORPORATED INTO THE FOLLOWING HORIZONTAL LIFT THICKNESS: PLACE ROCK IN MAXIMUM LOOSE LIFT THICKNESS 6 INCHES LARGER THAN THE LARGEST DIMENSION OF THE ROCK PIECES OR 3 FEET, WHICH EVER RESULTS IN THE SMALLER LIFT THICKNESS. ROCK PIECES LARGER THAN 6 INCHES SHALL NOT BE PLACED WITHIN 2 FEET FROM ANY FINISHED GRADE (TOP OF PAD AND ROAD SURFACE).

THE ROCK SHALL NOT BE DUMPED IN PLACE BUT SHALL BE DISTRIBUTED AND PLACED THE FULL WIDTH OF THE LIFT BEING FORMED BY BLADING OR DOZING TO ENSURE PROPER PLACEMENT IN THE FINAL POSITION IN THE EMBANKMENT. EVENLY DISTRIBUTE THE LARGER ROCKS, AND REDUCE THE VOIDS, POCKETS, AND BRIDGING TO ENSURE MINIMUM DEFORMATION. INCORPORATE SMALLER ROCK PIECES IN THE UPPER PORTIONS OF EACH ROCK LIFT TO FILL THE VOIDS DURING THIS MANIPULATION AND BEFORE COMPACTION. WHEN PLACING EMBANKMENT MATERIAL OTHER THAN ROCK ON TOP OF THE ROCK LIFT, LEVEL AND SMOOTH THE ROCK SURFACE USING SUITABLE LEVELING EQUIPMENT AND EVENTLY DISTRIBUTE THE SMALLER ROCK, ROCK SPALLS, AND FINER MATERIAL.

ROLL ALL ROCK LIFT SURFACES WITH EIGHT PASSSESS OF A VIBRATORY FOOTED DRUM ROLLER HAVING A MINIMUM EFFECTIVE WEIGHT OF 10 TONS. VERIFICATION OF ADEQUATE COMPACTION OF ROCK FILL LIFTS SHALL BE BY THE PROOF-ROLL METHOD USING FULLY LOADED DUMP TRUCKS.

WHEN CONSTRUCTING ROCK AND OTHER EMBANKMENT MATERIALS AT APPROXIMATELY THE SAME TIME, PERFORM THE FOLLOWING:

1. USE THE ROCK AT THE BASE OF THE EMBANKMENT TO THE EXTENT POSSIBLE.
2. USE THE ROCK IN THE OUTER PORTIONS OF THE EMBANKMENT.
3. USE THE LARGER ROCKS ON THE OUTSIDE OF THE SIDE SLOPES.
4. USE THE OTHER EMBANKMENT MATERIALS IN THE INNER PORTION OF THE FILL.

UP TO 35% (BY VISUAL INSPECTION) OF SOIL AND/OR NON-DURABLE SHALE ROCK CAN BE BLENDED WITH ROCK FILL PROVIDED THAT THE BLENDED MATERIAL PROVIDES A STABLE LIFT ONCE COMPACTED (AS VERIFIED BY PROOF-ROLLING). ONLY SOIL MATERIAL THAT IS WITHIN THREE PERCENT OF ITS OPTIMUM MOISTURE CONTENT AS ESTABLISHED BY STANDARD PROCTOR TESTING (ASTM D698) SHALL BE USED TO BLEND WITH ROCK FILL.

WHEN SHALE IS TO BE USED AS CONTROLLED FILL MATERIAL, THE SHALE SHALL BE TESTED BY THE "BUCKET TEST" FOR DURABILITY TO DETERMINE IF THE SHALE IS NONDURABLE (SHOULD BE MANAGED AS A CONTROLLED FILL TYPE I) OR AS DURABLE (PLACED AND COMPACTED AS CONTROLLED FILL TYPE II).

FINAL WALK THROUGH INSPECTION:

THE CONTRACTOR SHALL CONTACT THE OWNER TO SCHEDULE A FINAL WALK THROUGH INSPECTION OF THE COMPLETED REPAIR.

DRAINAGE NOTES:

ALL STORM SEWER, CULVERTS, HEADWALLS, CURB INLETS, MANHOLES, METHODS OF CONSTRUCTION, AND WORKMANSHIP FOR DRAINAGE AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE RULES AND REGULATIONS OF ODOT ITEMS 602 & 611 CURRENT ON THE DATE OF CONTRACT UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

PAYMENT:

THE COST OF ANY DEWATERING OPERATIONS REQUIRED SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

THE COST OF ANY ROCK EXCAVATION SHALL BE INCLUDED IN THE PRICE BID. THE BIDDER SHALL DETERMINE IF ANY ROCK EXCAVATION WILL BE REQUIRED AND ADJUST BIDS ACCORDINGLY.

ALL LABOR, MATERIAL, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY FOR EACH ITEM; FURNISHED, INSTALLED IN PLACE, JOINTING MADE, BEDDING, BACKFILL, PAVEMENT REPLACEMENT AND/OR REPAIR, AND TESTING SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PIPE.

G-15 PROHIBITED CONSTRUCTION ACTIVITIES:

THE FOLLOWING CONSTRUCTION ACTIVITIES ARE PROHIBITED ON THE PROJECT.


- USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.
- TRACKING OF MUD, DIRT AND DEBRIS ONTO ANY PUBLIC ROADWAY.
- OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT OR DISPOSING OF THE TREES AND STUMPS.
- PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.
- DISCHARGING POLLUTANTS - SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE - AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED FOR SAID PURPOSES.
- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS, OR OUTSIDE THE EASEMENT AREA.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.
- REMOVAL OF TREES AND BUSHES, OR DAMAGING VEGETATION OUTSIDE THE LIMITS OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING GENERAL SEQUENCE SHALL BE USED TO RECONSTRUCT EXISTING ROADWAY EMBANKMENT:

1. CLOSE A PORTION OF PATTONS RUN ROAD.
2. EXCAVATE FAILED MATERIAL.
3. BACKFILL EXCAVATED KEYWAY AND DRAINAGE AS SHOWN.
4. RECONSTRUCT EMBANKMENT AND ROADWAY SURFACE TO THE LIMITS SHOWN ON THE PLANS.
5. OPEN PATTONS RUN ROAD TO TRAFFIC.

ESTIMATED QUANTITIES			
ITEM NO.	UNIT	ITEM DESCRIPTION	QUANTITY
ROADWAY			
201	LUMP	CLEARING AND GRUBBING	LUMP
832	LUMP	EROSION AND SEDIMENT CONTROL MEASURES	LUMP
203	CY	EXCAVATION	3,045
202	CY	EMBANKMENT	3,150
518	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	35
518	FT	4" PERFORATED PLASTIC PIPE	556
518	FT	4" SOLID PLASTIC PIPE	125
209	FT	DITCH CLEANOUT	342
670	SY	DITCH EROSION PROTECTION	171
601	CY	ROCK CHANNEL PROTECTION TYPE D, WITH GEOTEXTILE FABRIC	1
659	SY	SEEDING AND MULCHING, CLASS 2	1,466
PAVEMENT			
204	SY	SUBGRADE COMPACTION/PROOF ROLL	352
304	CY	AGGREGATE BASE	39
INCIDENTALS			
103	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT	LUMP
614	LUMP	MAINTAINING TRAFFIC	LUMP
623	LUMP	CONSTRUCTION LAYOUT STAKES AND SURVEYING	LUMP
624	LUMP	MOBILIZATION	LUMP
105	LUMP	UTILITY COORDINATION AND RELOCATION	LUMP



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ALLEN J. SMITH JR.
REGISTERED PROFESSIONAL ENGINEER
E-71838

STATE OF OHIO
P.E. 71838

DESIGNED BY:	CHK'D BY:	REVISION	No.
CGJ	CGJ		
DRAWN BY:			
CGJ/LAF			
CHECKED BY:			
AJS			
PROJECT NO.			
30442			1

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO

ROADWAY SLOPE REPAIR PLANS

FOR PATTONS RUN – SITE 1

GENERAL NOTES

APPLICATION NO.

DATE:
2025-07-03

SCALE:
AS NOTED

SHEET:
2



DATES OF FIELD WORK: 12/02/2024

BASIS OF BEARINGS:

BENCHMARKS:

BENCHMARK #1 - VDT CONTROL POINT PINS #1
ELEVATION = 1066.79
BENCHMARK #2 - VDT CONTROL POINT PINS #2
ELEVATION = 1029.56

CONTROL POINTS

POINT #	NORTHING	EASTING	STATION AND OFFSET	DESCRIPTION
CP-1	785103.2400	2465043.5370	STA. 3+65.41, 10.40' RT.	CONTROL POINT PIN
CP-2	785073.6610	2465385.0140	STA. 0+24.78, 10.59' RT.	CONTROL POINT PIN

ALIGNMENT DETAILS

STATION	NORTHING	EASTING	ALIGNMENT
0+30.94	785065.2073	2465375.7874	TWP 469 (PATTONS RUN ROAD)
3+52.67	785093.0185	2465056.4143	TWP 469 (PATTONS RUN ROAD)



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ALLEN J. SMITH JR.

DESIGNED BY:

DRAWN BY:

CHECKED BY:

PROJECT NO.

STATE: OHIO P.E. 71835

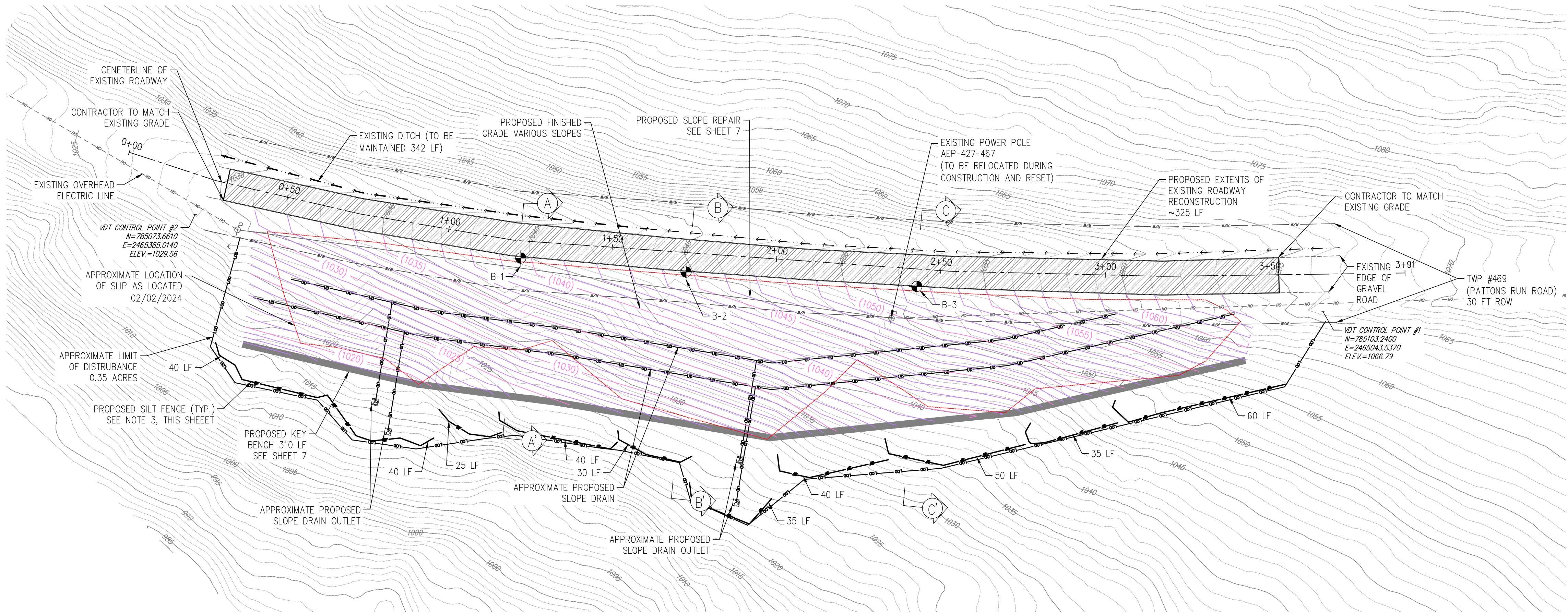
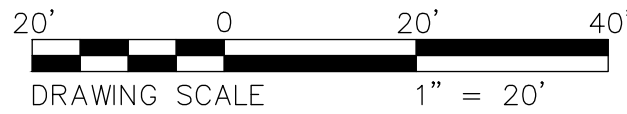
PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO ROADWAY SLOPE REPAIR PLANS FOR PATTONS RUN - SITE 1 EXISTING SITE PLAN

APPLICATION NO.

DATE: 2025-07-03

SCALE: AS NOTED

SHEET: 7



EARTHWORK TABLE		
AREA	CUT	FILL
SLOPE OVEREXCAVATION	3,045 C.Y.	3,150 C.Y.

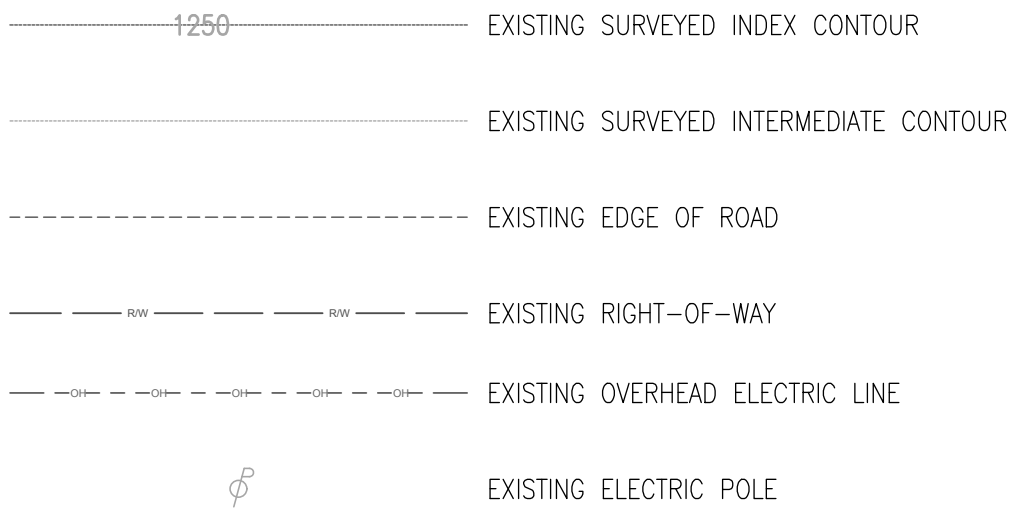
EARTHWORK NOTES:

- EARTHWORK QUANTITIES REFLECT FINISHED GRADE FOR REPAIR.
- VOLUMES ARE BASED ON IN-PLACE VOLUMES. NO SHRINK OR SWELL FACTORS HAVE BEEN APPLIED.

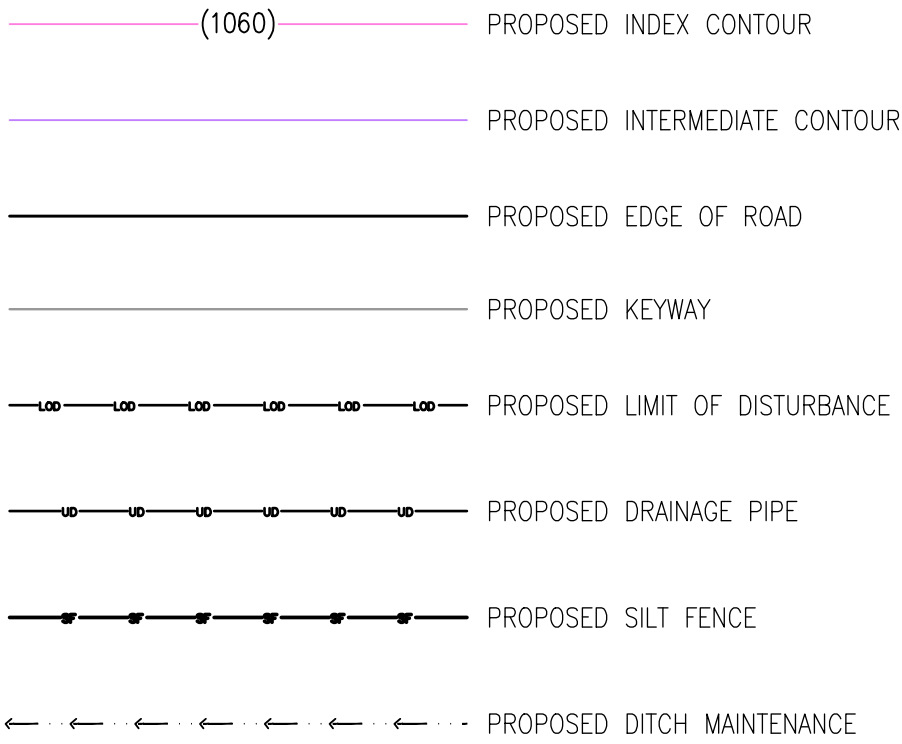
NOTES:

- ELEVATIONS SHOWN ARE FINAL TOP OF GRADE.
- KEY BENCH LOCATION SHOWN ON THIS PLAN ARE THE MINIMUM EXTENTS REQUIRED BASED ON SURVEYED SLIP EXTENTS ON THE DATE SURVEYED, FIELD CONDITIONS MAY VARY. THE CONTRACTOR SHALL INSTALL KEY AS NEEDED BASED ON THE RECOMMENDATIONS PROVIDED.
- THE CONTRACTOR SHALL RELOCATE AND ADJUST THE PROPOSED SLIT FENCE IN A MANNER THAT PREVENTS THE REMOVAL OF ANY ADDITIONAL TREES LARGER THAN 3 INCHES IN DIAMETER.

EXISTING LEGEND



PROPOSED LEGEND



PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
ROADWAY SLOPE REPAIR PLANS
FOR PATTONS RUN – SITE 1
OVERALL SITE PLAN

APPLICATION NO. _____

DATE: 2025-07-03

SCALE: AS NOTED

SHEET: 4

DESIGNED BY: C/G
DRAWN BY: C/G/LAF
CHECKED BY: AJS
PROJECT NO. 30442

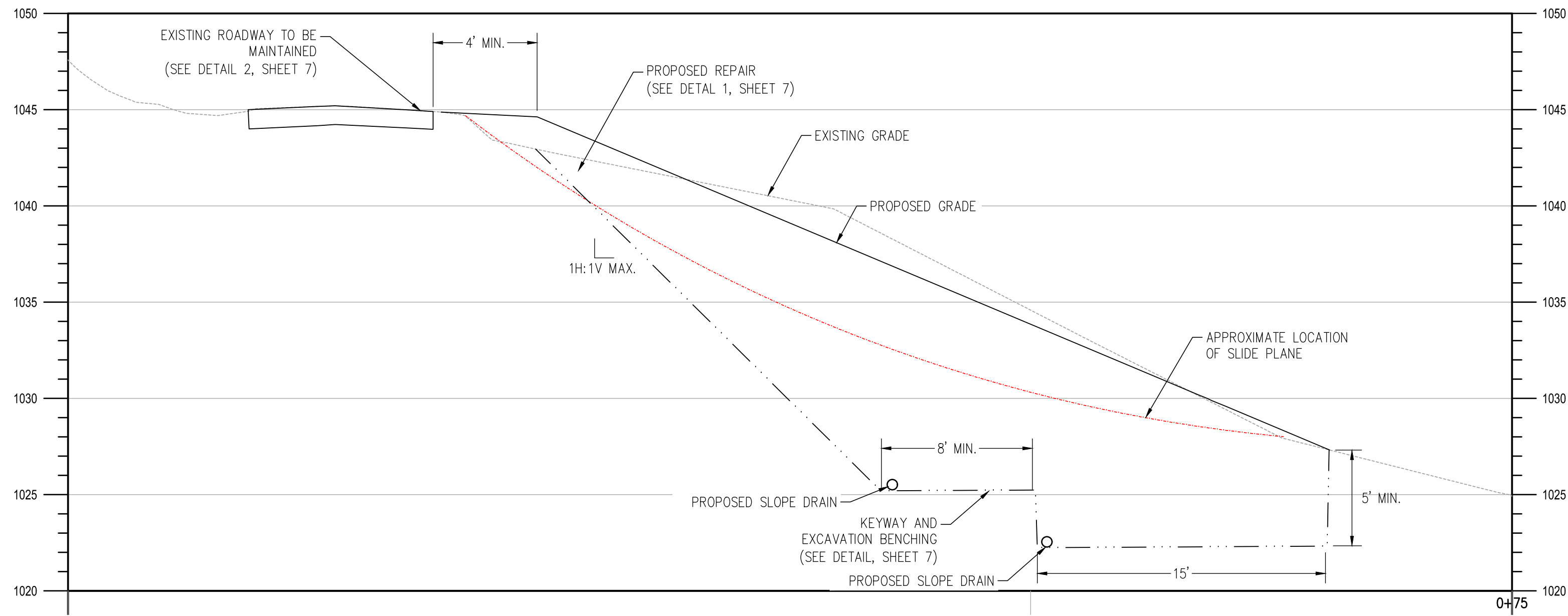
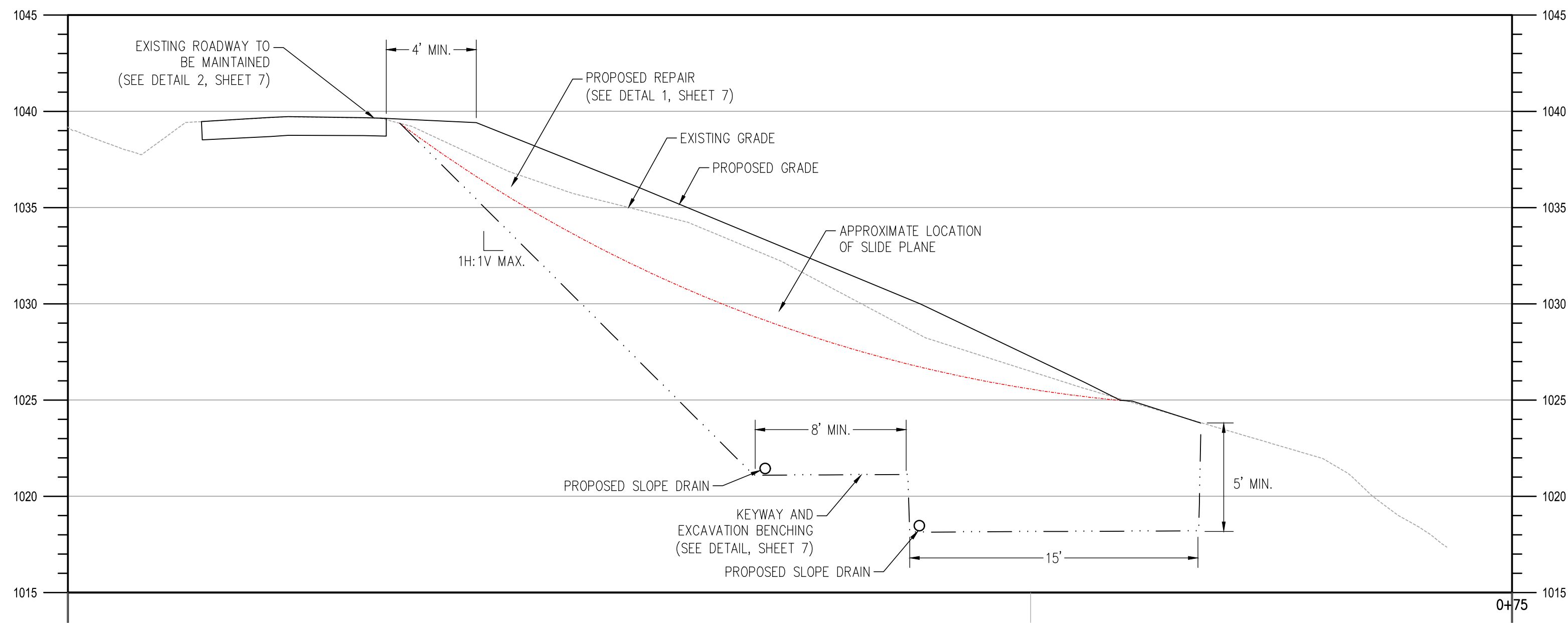
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CHK'D BY	DATE	REVISION	No.
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verdantas

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STATE: OHIO P.E. 71835

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C/G

DRAWN BY:

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AJS

PROJECT NO.

30442

CHK'D BY

DATE

REVISION

No.

-

PLAN &

PEASE TOWNSHIP ~ BELMONT COUNTY ~ OHIO
ROADWAY SLOPE REPAIR PLANS
FOR PATTONS RUN - SITE 1

PLAN & PROFILE

APPLICATION NO.

DATE:

2025-07-03

SCALE:

AS NOTED

SHEET:

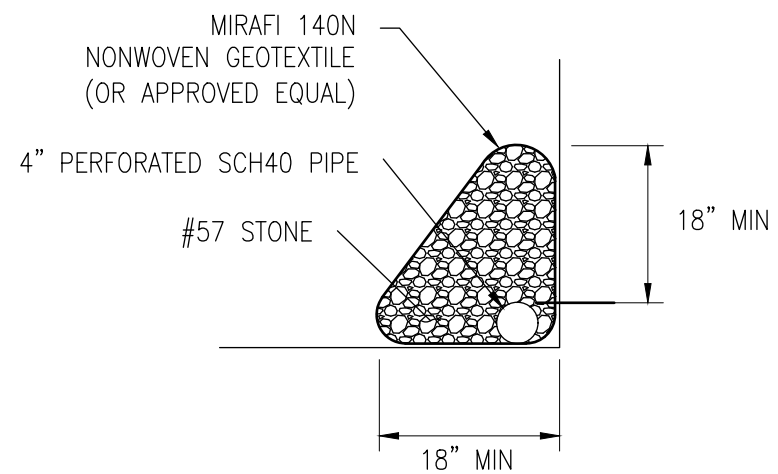
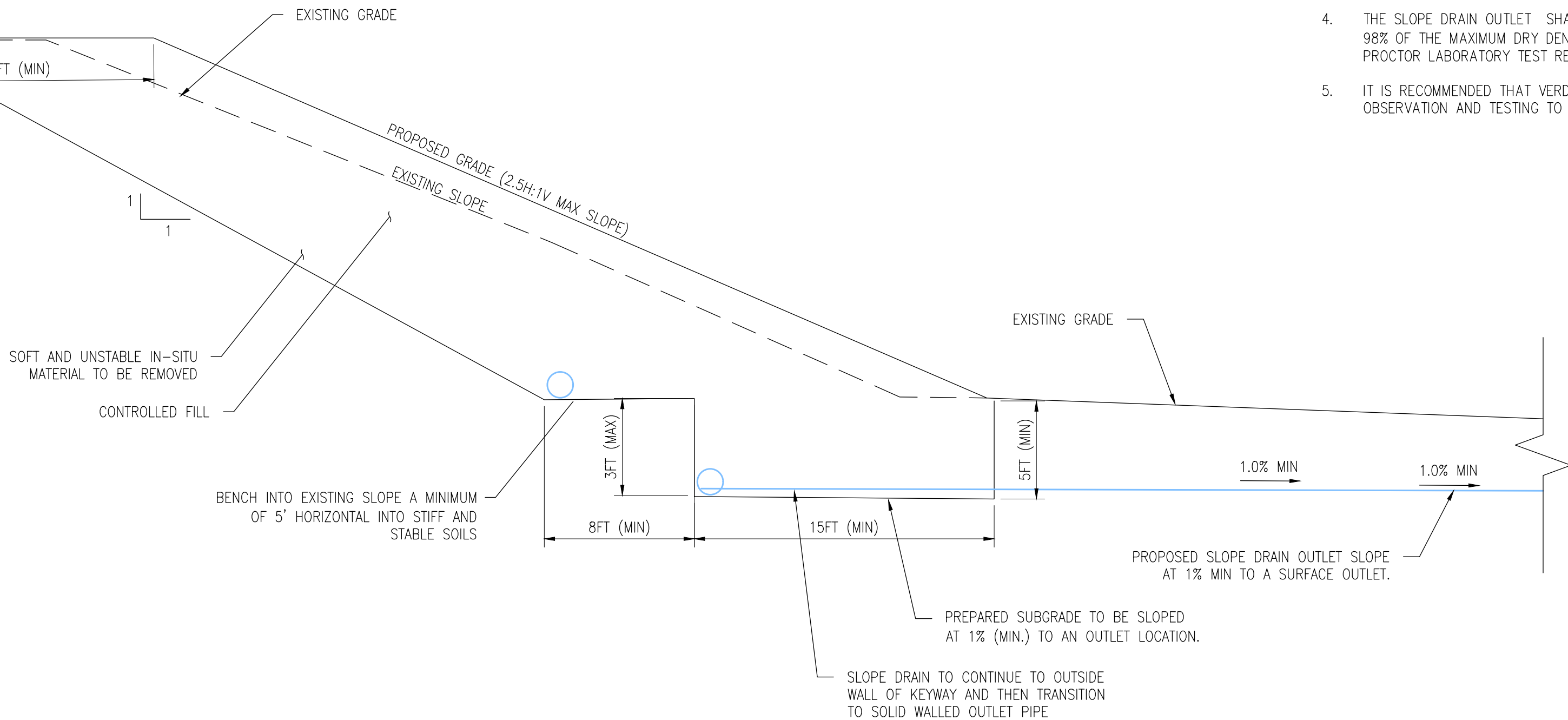
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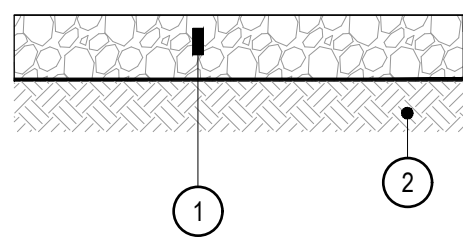


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PROPOSED ROADWAY REPAIR
(SEE DETAIL 2, THIS SHEET)



1 CONTROLLED FILL REPAIR DETAIL
Scale: NTS



- 1 ITEM 304 - 4" AGGREGATE BASE
- 2 ITEM 204 - SUBGRADE COMPACTION

2 ROADWAY MAINTENANCE
Not to Scale

NOTES:

- ALL MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.

NOTES:

- KEYWAY SHOULD BE INSTALLED A MINIMUM OF 5 FEET INTO THE EXISTING SLOPE. THE BASE OF THE PROPOSED KEYWAY SHALL EXHIBIT AN UNCONFINED COMPRESSIVE STRENGTH OF AT LEAST 3.5 TONS PER SQUARE FEET AND CONSIST OF STABLE SOILS. ANY IDENTIFIED SOFT OR WEAK ZONES SHALL BE OVEREXCAVATED AND REPLACED WITH SUITABLE CONTROLLED FILL MATERIAL.
- INSTALL BENCHES INTO THE EXISTING SLOPE TO PROVIDE A FIRM KEY FOR THE FILL PLACEMENT. BENCHES SHALL EXTEND A MINIMUM OF 8 FEET HORIZONTALLY INTO STIFF AND STABLE SOILS TO PROVIDE A FIRM KEY AND A MINIMUM OF 3 FEET BEYOND THE EXISTING SLIP PLANE, WITH 3 FEET MAXIMUM OF STIFF AND STABLE SOILS EXPOSED ON THE BACK (VERTICAL) WALL OF THE BENCH. THE DESIGNED BENCHES MAY NEED TO BE ADJUSTED IN THE FIELD IN ORDER TO MEET THE ACTUAL BEDROCK SURFACE.
- THE PREPARED BASE OF THE EXCAVATION SHALL SLOPE AT A MINIMUM OF 1% TO THE PROPOSED SLOPE DRAIN OUTLET LOCATION.
- THE SLOPE DRAIN OUTLET SHALL BE BACKFILLED WITH CONTROLLED FILL THAT SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AND AT A MOISTURE CONTENT OF +/- 3% OF THE OPTIMUM MOISTURE BASED ON THE STANDARD PROCTOR LABORATORY TEST RESULTS.
- IT IS RECOMMENDED THAT VERDANTAS OR ANOTHER LICENSED QUALIFIED GEOTECHNICAL ENGINEER PERFORM THE CONSTRUCTION OBSERVATION AND TESTING TO ENSURE THAT RECOMMENDATIONS ARE CORRECTLY IMPLEMENTED.

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GENERAL NOTES

1. FINAL GRADE MAY CONSIST OF PERMANENT CONTROLS SUCH AS VEGETATIVE COVER OR GRAVEL. IF SOIL OR ERODABLE FINES ARE PRESENT, A VEGETATIVE COVER SHALL BE INSTALLED.
2. FINAL GRADE SHALL CONSIST OF A MINIMUM OF 4 INCHES OF TOPSOIL PERMANENT STABILIZATION ON ALL VEGETATIVE DISTURBED AREAS.

RUNOFF, SEDIMENTATION AND EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE OWNER, ENGINEER, AND GOVERNING AUTHORITY.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE PROJECT WATERS LEAVE THE LIMITS OF THE PROJECT, ALL POINTS WHERE PROJECT WATERS ENTER PORTIONS OF EXISTING UNDERGROUND PIPING, AND AROUND ANY AREA DESIGNATED FOR SOIL STOCKPILING OR MATERIAL STAGING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE STABILIZATION OF PERMANENT EROSION CONTROLS.
4. SEDIMENT CONTROL STRUCTURES AND SETTLING FACILITIES SHALL BE INSTALLED DURING CONSTRUCTION ACTIVITIES AS SHOWN IN THIS PLAN AND AS NEEDED TO PREVENT THE TRANSPORT OF SEDIMENT LADEN STORMWATER OFF THE SITE. THE SEDIMENT CONTROL STRUCTURES AND SETTLING FACILITIES SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT AND UNTIL FINAL STABILIZATION IS ACHIEVED. SEDIMENT BASINS/TRAPS AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF GRUBBING. UPON COMPLETION OF CONSTRUCTION OF BASINS/TRAPS, SEEDING AND MULCHING SHALL IMMEDIATELY FOLLOW TO AID IN THE STABILIZATION AND MINIMIZE EROSION AND SEDIMENT TRANSPORT OF THE SOIL BEFORE WATER LEAVES THE BASINS/TRAPS. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED TO FUNCTION UNTIL UPLAND AREAS ARE PERMANENTLY STABILIZED.
5. WHERE NOT OTHERWISE NOTED OR SHOWN, ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) "RAINWATER AND LAND DEVELOPMENT MANUAL".
6. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS, CONSTRUCTION PHASING, AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST RUNOFF, EROSION, AND SEDIMENT CONTROLS ACCORDINGLY.

INSPECTION & MAINTENANCE NOTES

1. THE CONTRACTOR SHALL INSPECT RUNOFF, EROSION, AND SEDIMENT CONTROLS DURING CONSTRUCTION OPERATIONS, AFTER RAIN EVENTS, AND ON A WEEKLY BASIS TO IDENTIFY MAINTENANCE ITEMS.
2. THE CONTRACTOR SHALL PERFORM PROPER MAINTENANCE AND INSPECTIONS OF RUNOFF, SEDIMENTATION AND EROSION CONTROLS PER THE PROCEDURES AND FREQUENCY OUTLINED ON THIS SHEET. REGULAR INSPECTIONS AND MAINTENANCE BY THE CONTRACTOR SHALL BE PROVIDED FOR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTION ACTIVITIES SHALL BE KEPT ON-SITE THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE AT A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24-HOUR PERIOD. PROVIDE NAME OF INSPECTOR, DATE OF INSPECTION, MAJOR OBSERVATIONS (IDENTIFY TYPE AND LOCATION OF EACH SEPARATE BEST MANAGEMENT PRACTICE (BMP) REQUIRING ATTENTION, DESCRIBE CONDITION OF DAMAGED BMP, SPECIFY TYPE OF REMEDIAL ACTION REQUIRED, ETC.), AND SPECIFIC CORRECTIVE MEASURES TAKEN SINCE THE TIME OF THE PREVIOUS INSPECTION TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THIS PLAN.
- MAINTENANCE AND/OR REPAIR SHALL OCCUR AS DETAILED BELOW:
- a. ~~WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE~~, IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT BASIN, IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE (3) DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN TEN (10) DAYS OF THE INSPECTION.
- b. ~~WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION~~, IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THIS PLAN MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN TEN (TEN) DAYS OF THE INSPECTION.
- c. ~~WHEN PRACTICES DEPICTED ON THIS PLAN ARE NOT INSTALLED~~, IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE, THE CONTROL PRACTICE MUST BE IMPLEMENTED WITHIN TEN (10) DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL CONTROLS BEFORE SEDIMENT OVERTOPS THE BARRIER. IT SHOULD TYPICALLY BE REMOVED WHEN THE SEDIMENT REACHES ONE-HALF THE BARRIER HEIGHT OR WHEN IT CAUSES THE BARRIER TO BULGE.
4. ROCK CHANNEL INLET/OUTLET PROTECTION SHALL BE INSPECTED AFTER STORM EVENTS FOR STONE DISPLACEMENT AND FOR EROSION AT THE SIDES AND ENDS. MAKE NEEDED REPAIRS WITHIN THREE (3) DAYS OF THE INSPECTION.
5. SEEDED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SITE REACHES FINAL STABILIZATION. FINAL STABILIZATION MEANS THE VEGETATION HAS ESTABLISHED UNIFORM PERENNIAL VEGETATIVE COVER (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF AT LEAST 70 PERCENT GRASS COVER FOR A PERIOD OF 1 YEAR FROM THE TIME OF PLANTING. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES.

SEEDING, FERTILIZING, AND MULCHING NOTES - STABILIZATION SCHEDULE AND NOTES

1. THE CONTRACTOR SHALL INITIATE APPROPRIATE TEMPORARY AND PERMANENT STABILIZATION PRACTICES IN ACCORDANCE WITH THE TIME FRAMES LISTED BELOW:
- ANY DISTURBED AREA WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE SHALL HAVE TEMPORARY EROSION CONTROLS WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
 - ANY DISTURBED AREAS NOT WITHIN 50 FEET OF A STREAM THAT WILL BE DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN ONE YEAR, SHALL HAVE TEMPORARY EROSION CONTROLS APPLIED WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE TO THE AREA.
 - IF AREAS WILL LIE DORMANT OVER THE WINTER, TEMPORARY EROSION CONTROLS SHALL BE APPLIED PRIOR TO THE ONSET OF WINTER.
 - IF AREAS WILL LIE DORMANT FOR ONE YEAR OR MORE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
 - FOR ANY AREA WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF REACHING FINAL GRADE.
 - FOR ANY OTHER AREAS THAT ARE AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.
2. IT IS RECOMMENDED TO PERFORM A SOIL NUTRIENT TEST FOR FERTILIZER REQUIREMENTS PRIOR TO SEEDING, FERTILIZING, AND MULCHING TO VERIFY SEED MIXES AND COMPONENT APPLICATION RATES. RESULTS OF ALL SOIL TESTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO SEEDING, FERTILIZING, AND MULCHING.
3. A TEMPORARY OR PERMANENT SEED MIX FROM THE SPECIES SELECTION TABLE ON THIS SHEET SHALL BE SELECTED USING THE DATE THE SEEDING WILL BE PERFORMED. AN ALTERNATIVE SEED MIX MAY BE USED IF SPECIFIED BY THE RESULTS OF A SOIL TEST. OTHER ENGINEER-APPROVED SEED MIXES MAY BE SUBSTITUTED.

4. MULCH SHALL BE APPLIED AFTER THE SEED. EROSION CONTROL BLANKET OR EARTHGUARD IS RECOMMENDED FOR SLOPES 4:1 OR STEEPER INSTEAD OF MULCH.
5. CONTRACTOR SHALL WATER TO PREVENT GRASS AND SOIL FROM DRYING OUT. WATER SHALL BE APPLIED TO RECENTLY SEEDED AREAS IN ACCORDANCE WITH ODOT ITEM 659. WATER SHALL BE CLEAN, FRESH AND FREE OF SUBSTANCES OR MATTER WHICH COULD INHIBIT GROWTH OF GRASS.
6. SEEDED AND STABILIZED AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE SITE REACHES FINAL STABILIZATION. FINAL STABILIZATION MEANS THE VEGETATION HAS ESTABLISHED UNIFORM PERENNIAL VEGETATIVE COVER (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) WITH A DENSITY OF AT LEAST 70 PERCENT GRASS COVER FOR A PERIOD OF 1 YEAR FROM THE TIME OF PLANTING. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES.
7. SEEDED AREAS THAT DO NOT HAVE A UNIFORM DENSITY OF 70 PERCENT GRASS COVER SHALL BE REPAIRED BY REPAIRING EROSION AND REAPPLYING SEED, LIME, FERTILIZER, AND/OR MULCH AS NECESSARY TO ACHIEVE FINAL STABILIZATION.

TEMPORARY STABILIZATION

1. A TEMPORARY STABILIZATION SEED MIX SHALL BE SELECTED AND USED BASED ON THE TIMEFRAME SPECIFIED IN THE TEMPORARY SEEDING SPECIES SELECTION TABLE.
2. TEMPORARY STABILIZATION SHALL BE PERFORMED ON ANY DISTURBED AREA MEETING CRITERIA SPECIFIED ON THIS SHEET, BY USE OF SEEDING AND/OR MULCHING
3. AN APPROPRIATE TEMPORARY SEED MIX SHALL BE SELECTED THAT ESTABLISHES TEMPORARY VEGETATED COVER ON DISTURBED AREAS.
4. FERTILIZER SHALL BE 10-10-10 OR 12-12-12, AND APPLIED AT 250 LBS PER ACRE UNLESS OTHERWISE SPECIFIED BY THE RESULTS OF A SOIL TEST. FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. MULCHING SHALL BE PERFORMED USING WOOD CHIPS OR ANCHORED STRAW APPLIED AT 2 TONS PER ACRE UNLESS OTHERWISE SPECIFIED BY A SOIL TEST. STRAW ANCHORING METHODS INCLUDE CRIMPING SUCH AS WITH A DISK OR SIMILAR TOOL, MULCH NETTING, OR SYNTHETIC BINDER APPLIED AT THE MANUFACTURER'S SPECIFIED RATE.

PERMANENT STABILIZATION

1. A PERMANENT STABILIZATION SEED MIX SHALL BE SELECTED AND USED BASED ON THE TIMEFRAME SPECIFIED IN THE PERMANENT SEEDING SPECIES SELECTION TABLE.
2. PERMANENT STABILIZATION SHALL BE PERFORMED ON ANY DISTURBED AREA MEETING CRITERIA SPECIFIED ON THIS SHEET.
3. AN APPROPRIATE SEED MIX SHALL BE SELECTED THAT ESTABLISHES PERMANENT VEGETATED COVER ON DISTURBED AREAS.
- LIME SHALL BE AGRICULTURAL GROUND LIMESTONE, AND APPLIED AT 2 TONS PER ACRE UNLESS OTHERWISE AS SPECIFIED BY THE RESULTS OF A SOIL TEST.
4. FERTILIZER SHALL BE 10-10-10 OR 12-12-12, AND APPLIED AS NEEDED TO ACHIEVE VEGETATIVE COVER FOR PERMANENT STABILIZATION AT 1000 LBS PER ACRE OF UNLESS OTHERWISE SPECIFIED BY THE RESULTS OF A SOIL TEST. FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. MULCHING SHALL BE PERFORMED USING ANCHORED STRAW APPLIED AT 2 TONS PER ACRE UNLESS OTHERWISE SPECIFIED BY A SOIL TEST. ANCHORING METHODS INCLUDE CRIMPING SUCH AS WITH A DISK OR SIMILAR TOOL, MULCH NETTING, OR SYNTHETIC BINDER APPLIED A THE MANUFACTURER'S SPECIFIED RATE.
6. ALL VEGETATED SLOPES 4:1 OR STEEPER SHALL BE STABILIZED WITH AN EROSION CONTROL HYDROSEED INCLUDING A FIBER MATRIX, SUCH AS THE EARTHGUARD PRODUCTS OR ANCHORED STRAW. IF PERMANENT STABILIZATION TAKES PLACE DURING MONTHS THAT DO NOT PROMOTE VEGETATION GROWTH, A BIODEGRADABLE EROSION CONTROL BLANKET SHALL BE USED. EROSION CONTROL SHALL BE APPLIED AND MAINTAINED UNTIL VEGETATED GROWTH IS ESTABLISHED.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB/1000 FT²	LB/ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1.25	55
	TALL FESCUE	3.25	142
	ANNUAL RYEGRASS	0.40	17
	ANNUAL RYEGRASS	0.40	17
	OATS	3	128 (3 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
AUGUST 16 TO OCTOBER 31	RYE	3	112 (2 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	112 (2 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1.25	40
	PERENNIAL RYEGRASS	3.25	40
	CREEPING RED FESCUE	0.40	40
	KENTUCKY BLUEGRASS	0.40	40
	KENTUCKY BLUEGRASS	0.40	40
NOVEMBER 1 TO FEBRUARY 29			
SE MULCH ONLY OR DORMANT SEEDING			


PERMANENT SEEDING SPECIES SELECTION			
SEED MIX	SEEDING RATE		NOTES
	LB/ACRE	LB/1000 FT ²	
GENERAL USE			
PERENNIAL RYE	20-40	0.50-1	FOR CLOSE MOWING & WATERWAYS WITH <2.0 FPS VELOCITY
TALL FESCUE	10-20	0.25-0.50	
ANNUAL RYEGRASS	20-40	0.50-1	
TALL FESCUE	40-50	1-1.25	
TURF-TYPE (DWARF) FESCUE	90	2.25	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1-1.25	
CROWN VETCH	10-20	0.25-0.50	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	0.50-0.75	
FLAT PEA	20-25	0.50-0.75	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	0.50-0.75	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1-1.25	
TURF-TYPE (DWARF) FESCUE	90	2.25	
KENTUCKY BLUEGRASS	5	0.10	
LAWNS			
KENTUCKY BLUEGRASS	100-120	2	
PERENNIAL RYEGRASS	100-120	2	
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS
CREEPING RED FESCUE	100-120	1.50	

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ROADWAY SLOPE REPAIR PLANS
FOR PATTONS RUN – SITE 1
EROSION & SEDIMENT CONTROL NOTES

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