TOE STONES, SHALL BE PLACED AND RELOCATED AS REQUIRED, INDIVIDUALLY BY MECHANICAL MEANS TO AVOID CRUSHING OR CHIPPING STONES AND UNDERLAYER ROCKS AND TO AVOID DISPLACING OR PLACING IMPACT FORCES ON THE UNDERLYING MATERIAL. PLACEMENT SHALL MINIMIZE VOID SPACE AND MAXIMIZE THE INTERLOCK BETWEEN TOE STONES AND ARMOR STONES, TO PRODUCE A UNIFORM MASS OF ROCK. MOVEMENT OF STONES AFTER INITIAL PLACEMENT WILL BE REQUIRED AS NECESSARY TO ACHIEVE THESE RESULTS.

EQUIPMENT SHALL BE CAPABLE OF PLACING THE ROCK NEAR ITS FINAL POSITION BEFORE RELEASE AND CAPABLE OF MOVING THE ROCK IF NECESSARY. DRAGLINE BUCKETS AND SKIPS ARE NOT ACCEPTABLE FOR PLACEMENT OF ARMOR STONES. CASTING OR DROPPING OF STONES OVER TWO FEET OR MOVING BY DRIFTING AND MANIPULATING DOWN THE SLOPE IS NOT PERMITTED. MECHANICAL MEANS PROPOSED FOR ARMOR ROCK PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

TOE STONES ARE TO BE PLACED ATOP A STABLE BASE OF UNDERLAYERS STONES WITH A MINIMUM THICKNESS OF THREE FEET.

CREST STONES:

CREST STONES, SHALL BE PLACED AND RELOCATED AS REQUIRED, INDIVIDUALLY BY MECHANICAL MEANS TO AVOID CRUSHING OR CHIPPING STONES AND UNDERLAYER ROCKS AND TO AVOID DISPLACING OR PLACING IMPACT FORCES ON THE UNDERLYING MATERIAL. PLACEMENT SHALL MINIMIZE VOID SPACE AND MAXIMIZE THE INTERLOCK BETWEEN CREST STONES AND ARMOR STONES, TO PRODUCE A UNIFORM MASS OF ROCK. MOVEMENT OF STONES AFTER INITIAL PLACEMENT WILL BE REQUIRED AS NECESSARY TO ACHIEVE THESE RESULTS.

EQUIPMENT SHALL BE CAPABLE OF PLACING THE ROCK NEAR ITS FINAL POSITION BEFORE RELEASE AND CAPABLE OF MOVING THE ROCK IF NECESSARY. DRAGLINE BUCKETS AND SKIPS ARE NOT ACCEPTABLE FOR PLACEMENT OF ARMOR STONES. CASTING OR DROPPING OF STONES OVER TWO FEET OR MOVING BY DRIFTING AND MANIPULATING DOWN THE SLOPE IS NOT PERMITTED. MECHANICAL MEANS PROPOSED FOR ARMOR ROCK PLACEMENT SHALL BE APPROVED BY THE ENGINEER. CREST STONES ARE TO BE PLACED ATOP A STABLE BASE OF UNDERLAYERS STONES.

UNDERLAYER STONES:

UNDERLAYER STONES SHALL BE PLACED AND RELOCATED AS REQUIRED. BY MECHANICAL MEANS TO AVOID CRUSHING OR CHIPPING UNDERLAYER AND FILTER LAYER ROCKS AND TO AVOID DISPLACING OR PLACING IMPACT FORCES ON THE UNDERLYING MATERIAL. ROCK SHALL BE PLACED TO FULL LAYER THICKNESS IN A SINGLE OPERATION. STONES SHALL BE SORTED AND PLACED SO THE LARGER STONES ARE AT THE OUTER FACE AND SMALLER STONES UNDERLAY THE OUTER FACE. PLACEMENT SHALL MINIMIZE THE VOID SPACE AND MAXIMIZE THE INTERLOCK BETWEEN INDIVIDUAL STONES, TO PRODUCE A UNIFORM MASS OF ROCK. MOVEMENT OF STONES AFTER INITIAL PLACEMENT WILL BE REQUIRED AS NECESSARY TO ACHIEVE THESE RESULTS. CASTING OR DROPPING OF ROCKS OR MOVING BY DRIFTING AND MANIPULATING DOWN THE SLOPE IS NOT PERMITTED.

CONSTRUCTION OF THE UNDERLAYER SHALL START AT THE BOTTOM OF THE SLOPE AND PROGRESS UP THE SLOPE. FINISHING OF THE SLOPE SHALL BE PERFORMED AS THE STONES ARE BEING PLACED. THE UNDERLAYER SHALL NOT HAVE VOIDS LARGE ENOUGH TO PASS A MINIMUM WEIGHT UNDERLAYER ROCK BELOW THE GRADE. UNSEGREGATED ROCK SHALL BE PLACED IN A SYSTEMATIC MANNER DIRECTLY ON THE FILTER STONE BASE OR UNDERLYING MATERIAL. THE FINISHED UNDERLAYER SHALL BE FREE FROM POCKETS OF SMALL ROCKS OR CLUSTERS OF LARGE ROCKS. REARRANGE INDIVIDUAL ROCKS AS NECESSARY TO MINIMIZE VOIDS AND PRODUCE A WELL GRADED DISTRIBUTION OF ROCK SIZES. PLACING ROCK BY ANY METHOD WHICH CAUSES SEGREGATION OF ROCK SIZES IS NOT PERMITTED.

ARMOR STONES:

ARMOR STONES. SHALL BE PLACED AND RELOCATED AS REQUIRED. INDIVIDUALLY BY MECHANICAL MEANS TO AVOID CRUSHING OR CHIPPING STONES AND UNDERLAYER ROCKS AND TO AVOID DISPLACING OR PLACING IMPACT FORCES ON THE UNDERLYING MATERIAL. ARMOR STONES SHALL BE PLACED TO FULL LAYER THICKNESS IN A SINGLE OPERATION. ARMOR STONES SHALL BE SORTED AND PLACED SO THE LARGER STONES ARE AT THE OUTER FACE AND SMALLER STONES UNDERLAY THE OUTER FACE. PLACEMENT SHALL MINIMIZE VOID SPACE AND MAXIMIZE THE INTERLOCK BETWEEN INDIVIDUAL STONES, TO PRODUCE A UNIFORM MASS OF ROCK. MOVEMENT OF STONES AFTER INITIAL PLACEMENT WILL BE REQUIRED AS NECESSARY TO ACHIEVE THESE RESULTS.

EQUIPMENT SHALL BE CAPABLE OF PLACING THE ROCK NEAR ITS FINAL POSITION BEFORE RELEASE AND CAPABLE OF MOVING THE ROCK IF NECESSARY. DRAGLINE BUCKETS AND SKIPS ARE NOT ACCEPTABLE FOR PLACEMENT OF ARMOR STONES. CASTING OR DROPPING OF STONES OVER TWO FEET OR MOVING BY DRIFTING AND MANIPULATING DOWN THE SLOPE IS NOT PERMITTED. MECHANICAL MEANS PROPOSED FOR ARMOR ROCK PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

CONSTRUCTION OF THE ARMOR STONE LAYERS SHALL START WITH PLACEMENT OF THE TOE STONES AND PROGRESS UP THE SLOPE. FINISHING OF THE SLOPE SHALL BE PERFORMED AS THE STONES ARE BEING PLACED. TOLERANCES SHOWN IN THE PLANS ARE MEASURED FROM THE THEORETICAL BOUNDARY BETWEEN LAYERS. THE OUTER SURFACE SHALL BE EVEN AND STABLE AND SHALL BE FREE FROM UNKEYED OR NON-INTERLOCKED STONES OVERHANGING OR BALANCING ON LOWER STONES. THE ARMOR LAYER SHALL BE FREE FROM "FLOATERS" AND SHALL NOT HAVE VOIDS LARGE ENOUGH TO PASS A MINIMUM WEIGHT ARMOR ROCK BELOW THE GRADE.

ARMOR STONES ARE TO BE PLACED ATOP A STABLE BASE OF UNDERLAYERS STONES.

GEOGRID:

GEOGRID SHALL BE TENSAR INTERAX NXL GEOGRID OR APPROVED EQUAL AND SHALL BE PLACED ATOP THE GEOTEXTILE FABRIC TO PROTECT FABRIC FROM TEARING.

FILTER FABRIC:

FILTER FABRIC SHALL CONFORM TO ODOT 601.09 AND ODOT 712.09 TYPE B. FABRIC SHALL BE PLACED WITHOUT WRINKLES AND CREASES ON A RELATIVE SMOOTH SURFACE, FREE OF OBSTRUCTIONS AND DEBRIS AND SHALL BE PLACED WITH THE LONG DIMENSION PERPENDICULAR TO THE SHORELINE. AT JOINTS. OVERLAP BY MINIMUM 12 INCHES WITH THE STRIP OVERLAPPING THE JOINING STRIP. FABRIC SHALL BE SECURED WITH STEEL SECURING PINS WITH MINIMUM DIAMETER OF 3/16 INCHES AND AT LEAST 18 INCHES LONG. SECURING PINS SHALL HAVE A POINT AT ONE END AND A HEAD AT THE OTHER CAPABLE OF RETAINING THE WASHER. WASHERS SHALL BE STEEL WITH A MINIMUM OUTSIDE DIAMETER OF 1- 1/2 INCHES. SECURING PINS WITH WASHER SHALL BE INSTALLED AT 24 INCHES APART ALONG JOINTS OR EDGES AND AT 60 INCHES APART OVER THE STRIP.

FILTER FABRIC SHALL BE PROTECTED FROM TEARING. IF THE FABRIC TEARS, IT SHALL BE REPAIRED OR REPLACED BEFORE CONTINUING PLACEMENT OF STONES ATOP THE FILTER FABRIC. REPAIR AND REPLACEMENT WILL BE AT THE EXPENSE OF THE CONTRACTOR

SOURCE MATERIAL:

ROCK SHALL HAVE A MAXIMUM 30 PERCENT SINGLE SLAB LOSS AND A MAXIMUM 20 PERCENT CUMULATIVE LOSS AFTER TESTING TO ASTM D5240 ON AN 8" THICK SLAB TEST SAMPLE. THIN SLAB LIKE PIECES SHALL NOT BE USED IN THE CONSTRUCTION OF THE REVETMENT.

TOE STONES:

TOE STONES SHALL CONSIST OF 4-TON TO 5-TON STONES WITH RELATIVELY FLAT TOP AND BOTTOM. TOE STONES SHALL BE ROUGH ANGULAR QUARRIED LIMESTONE WITH A MINIMUM UNIT WEIGHT OF 165 POUNDS PER CUBIC FOOT AND SHALL BE SOUND, FREE OF CRACKS VISIBLE TO THE NAKED EYE, AND FREE FROM FRACTURES, LAMINATIONS, SEAMS, ROCK PARTINGS, SPOILS, GRAVEL, SAND, OTHER SOIL, AND DETRIMENTAL MATERIAL. THIN SLAB LIKE PIECES SHALL NOT BE USED IN THE CONSTRUCTION OF THE REVETMENT. EACH TOE STONE SHALL BE WEIGHTED AND WEIGHT SLIPS BE PROVIDED TO THE ENGINEER PRIOR TO PLACEMENT FOR BASIS OF PAYMENT.

ARMOR STONES:

ARMOR STONES SHALL CONSIST OF 1.5-TON TO 2.5-TON STONES RANGING FROM 30 INCHES TO 44 INCHES IN APPROXIMATE DIAMETER. ARMOR STONES SHALL BE ROUGH ANGULAR QUARRIED LIMESTONE WITH A MINIMUM UNIT WEIGHT OF 165 POUNDS PER CUBIC FOOT AND SHALL BE SOUND, FREE OF CRACKS VISIBLE TO THE NAKED EYE, AND FREE FROM FRACTURES, LAMINATIONS, SEAMS, ROCK PARTINGS, SPOILS, GRAVEL, SAND, OTHER SOIL, AND DETRIMENTAL MATERIAL. THIN SLAB LIKE PIECES SHALL NOT BE USED IN THE CONSTRUCTION OF THE REVETMENT. EACH ARMOUR STONE SHALL BE WEIGHTED AND WEIGHT SLIPS BE PROVIDED TO THE ENGINEER PRIOR TO PLACEMENT FOR BASIS OF PAYMENT.

CREST STONES:

CREST STONES SHALL CONSIST OF 4-TON TO 5-TON STONES WITH RELATIVELY FLAT TOP AND BOTTOM. CREST STONES SHALL BE ROUGH ANGULAR QUARRIED LIMESTONE WITH A MINIMUM UNIT WEIGHT OF 165 POUNDS PER CUBIC FOOT AND SHALL BE SOUND, FREE OF CRACKS VISIBLE TO THE NAKED EYE, AND FREE FROM FRACTURES, LAMINATIONS, SEAMS, ROCK PARTINGS, SPOILS, GRAVEL, SAND, OTHER SOIL, AND DETRIMENTAL MATERIAL. THIN SLAB LIKE PIECES SHALL NOT BE USED IN THE CONSTRUCTION OF THE REVETMENT. EACH CREST STONE SHALL BE WEIGHTED AND WEIGHT SLIPS BE PROVIDED TO THE ENGINEER PRIOR TO PLACEMENT FOR BASIS OF PAYMENT.

UNDERLAYER STONES:

UNDERLAYER STONES SHALL CONSIST OF 300 TO 500 LB ROCKS, WITH TYPICAL DIAMETER OF 18", MINIMUM ROCK SIZE SHALL BE 6" AND MAXIMUM ROCK SIZE SHALL BE 24". UNDERLAYER STONES SHALL BE ROUGH ANGULAR QUARRIED LIMESTONE WITH A MINIMUM UNIT WEIGHT OF 165 POUNDS PER CUBIC FOOT AND SHALL BE SOUND, FREE OF CRACKS VISIBLE TO THE NAKED EYE, AND FREE FROM FRACTURES, LAMINATIONS, SEAMS, ROCK PARTINGS, SPOILS, GRAVEL, SAND, OTHER SOIL, AND DETRIMENTAL MATERIAL. THIN SLAB LIKE PIECES SHALL NOT BE USED IN THE CONSTRUCTION OF THE REVETMENT. REUSE OF EXISTING STONE *IS ACCEPTABLE AT THE APPROVAL OF THE ENGINEER AND SHALL MEET* SPECIFIED DESIGN REQUIREMENTS.

ITEM 503 COFFERDAMS AND EXCAVATION BRACING

A CONTINGENCY QUANTITY OF ITEM 503 COFFERDAM AMD EXCAVATION BRACING FOR THE INSTALLATION OF THE GEOFABRIC, TOE STONE AND UNDERLAYING STONE HAS BEEN INCLUDED IN THE COST OF THE PROJECT. USE OF THIS ITEM 503 COFFERDAMS AND EXCAVATION BRACING WILL BE AT THE DISCRETION OF THE CONTRACTOR. ANY DEWATERING WILL BE INCLUDED IN THE LUMP SUM PRICE OF COFFERDAMS AND EXCAVATION BRACING. THE QUANTITY BELOW WILL BE TRANSFERRED TO THE GENERAL SUMMARY.

ITEM 503 COFFERDAMS AND EXCAVATION BRACING

ALL EQUIPMENT SHALL BE REMOVED FROM THE CLEAR ZONE OR PROTECTED BY PORTABLE CONCRETE BARRIER BY THE END OF THE WORK DAY.

THE SHORE STRUCTURE PERMIT 23-OTT-14 FROM THE DEPARTMENT OF NATURAL RESOURCES HAS BEEN APPROVED FOR THIS PROJECT. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THE SHORE STRUCTURE PERMIT DURING CONSTRUCTION.

THE WATERWAY PERMIT FROM THE DEPARTMENT OF NATURAL RESOURCES HAS BEEN APPROVED FOR THIS PROJECT. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THE WATERWAY PERMIT DURING CONSTRUCTION.

THE OPTIONAL WEDGE TREATMENT AS DETAILED ON MT-101.90 WILL BE REQUIRED AND SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

EXCAVATION FOR SHORE REVETMENT SHALL BE RESTORED TO ITS FINAL CONDITION OR BACKFILLED AT A 3:1 SLOPE PRIOR TO REMOVING THE ONE LANE/TWO-WAY LANE CLOSURE.

LUMP SUM

APPROVAL OF ROCK SOURCES:

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE SOURCE OR COMBINATION OF SOURCES FROM WHICH ROCK MATERIALS FOR THIS REVETMENT WILL BE FURNISHED. ROCK FROM THE SOURCE LOCATION SHALL BE TESTED TO VERIFY CONFORMANCE WITH PROJECT REQUIREMENTS. APPROVAL OF A SOURCE FOR ROCK MATERIAL, SHALL NOT CONSTITUTE APPROVAL OF ALL ROCK MATERIAL FROM THAT SOURCE. MATERIALS MAY BE REJECTED THAT ARE UNSUITABLE AS ROCK MATERIAL FOR THE PROJECT. THE OWNER RESERVES THE RIGHT TO RETEST ROCK MATERIALS FROM THE QUARRY OR FROM STOCKPILES OF MATERIAL AT THE PROJECT SITE. IF A SOURCE DESIGNATED BY THE CONTRACTOR IS NOT APPROVED BY THE ENGINEER, THE CONTRACTOR MAY SUBMIT FOR APPROVAL AN ALTERNATE SOURCE AT NO ADDITIONAL COST TO THE OWNER.

QUARRYING SHALL BE CONDUCTED IN A MANNER TO PRODUCE ROCK CONFORMING TO THE REQUIREMENTS SPECIFIED FOR THIS PROJECT. THIS SHALL INCLUDE SELECTIVE QUARRYING, HANDLING, PROCESSING, BLENDING, AND LOADING AS REQUIRED. BLASTING AND PROCESSING OF THE ROCK SHALL BE CONTROLLED TO PRODUCE THE SIZE RANGES AND QUALITY SPECIFIED. BLASTING SHALL BE DESIGNED TO PREVENT DAMAGE TO THE ROCKS USED IN THE CONSTRUCTION OF THE REVETMENT. TECHNIQUES SHALL BE CHANGED AS REQUIRED TO PRODUCE SUITABLE MATERIAL. THE METHODS USED IN QUARRY OPERATIONS FOR EACH MATERIAL TYPE INCLUDING BLASTING DATA AND EVALUATION SHALL BE SUBMITTED TO THE CONTRACTOR. INFORMATION SHALL ALSO BE SUBMITTED TO THE CONTRACTOR FOR ANY CHANGES IN OPERATIONS OR METHODS.

EQUIPMENT IN THE WORK ZONE

ENVIRONMENTAL COMMITMENTS

DROPOFFS IN THE WORK ZONE

THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

ITEM 253, PAVEMENT REPAIR

ALL EXISTING PAVEMENT AREAS WHICH WILL BE IN CONTACT WITH THE PAVEMENT REPAIR SHALL BE COATED WITH PG GRADE LIQUID ASPHALT (SIDES AND BOTTOM) AT AN APPLICATION RATE OF (0.25 GAL. PER SQ YD.)

THE FOLLOWING ESTIMATED QUANTITIY IS TO BE USED FOR 6" FOR PAVEMENT REPAIR FOR SR 163 AS DIRECTED BY THE ENGINEER AND BASED ON REPLACING THE ASPHALT DUE TO POSSIBLE CONSTRUCTION DAMAGE.

ITEM 253 PAVEMENT REPAIR 100 CY

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| | | 89 | 445 | 444 | 445 | 444 | 445 | 426 | | | | | | 203 | 98200 | 2,738 | | ROADWAY, MISC.:ROCK CHANNEL PROTECTION: CRES |
| | | 83 | 417 | 417 | 417 | 417 | 416 | 400 | | | | | | 203 | 98200 | 2,730 | | ROADWAY, MISC.:ROCK CHANNEL PROTECTION: TOE S |
| | | 478 | 2,389 | 2,389 | 2,389 | 2,389 | 2,389 | 2,293 | | | | | | 203 | 98200 | 14,716 | | ROADWAY, MISC.:ROCK CHANNEL PROTECTION: ARMC |
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| | | 444 | 2,223 | 2,222 | 2,222 | 2,222 | 2,222 | 5,133 | | | | | | 204 | 50000 | 16,688 | | GEOTEXTILE FABRIC |
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| | | 89 | 445 | 444 | 444 | 444 | 445 | 427 | | | | | | 601 | 21001 | 2,738 | | CONCRETE SLOPE PROTECTION, AS PER PLAN |
| | | 282 | 1,408 | 1,407 | 1,408 | 1,407 | 1,407 | 1,351 | | | | | | 601 | 35000 | 8,670 | СҮ | ROCK CHANNEL PROTECTION, MISC.: UNDERLAYER ST |
| | | LOL | 1 | 1,107 | 1,100 | 1,107 | 1,107 | 1,001 | | | | | | 611 | 99654 | 1 | | MANHOLE ADJUSTED TO GRADE |
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