

NOTES

1. APPROXIMATE WETLAND LOCATIONS HAVE BEEN IDENTIFIED. SEE PROJECT LAYOUT SHEETS FOR LOCATIONS. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY STATE AND FEDERAL PERMITS IF WORK GOES BEYOND THE EXISTING TOE OF SLOPE.
2. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL OR AS OTHERWISE NOTED ON THE PLANS. THE PAVEMENT LAYERS SHALL BE TRANSITIONED AT THE PROJECT BEGIN AND END, AND AT ALL SIDE ROAD APPROACHES AS DENOTED ON THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
3. PRIOR TO RECLAIMING OR COLD PLANING, ANY EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO THE DEPTH OF RECLAIMING OR AS DIRECTED BY THE ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEM(S). THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEM(S) SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED. AN ADDITIONAL QUANTITY OF 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED HAS BEEN INCLUDED TO CORRECT SUPERELEVATION AND PROFILE DEFICIENCIES WITHIN THE RECLAIMED SECTION.
4. DURING THE FIRST RECLAIM PASS, WATER SHALL BE USED AS A STABILIZING AGENT AND FOR COMPACTION FOR THE RECLAIMED STABILIZED BASE AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 310.20 RECLAIMED STABILIZED BASE. THE FIRST RECLAIM PASS SHALL BE PERFORMED OVER THE FULL WIDTH OF THE EXISTING ROADWAY. THIS WORK SHALL BE PAID UNDER ITEM 310.20 "RECLAIMED STABILIZED BASE". THE SECOND PASS SHALL BE PERFORMED FULL WIDTH PER THE TYPICAL SECTION. THIS WORK WILL BE PAID UNDER ITEM 900.675 SPECIAL PROVISION (RECLAIMED STABILIZED BASE, LIQUID CALCIUM CHLORIDE).
5. THE PORTLAND CEMENT STABILIZED COLD MIX SHALL BE PRODUCED FROM THE COLD PLANE GRINDINGS GENERATED FROM THE PROJECT AND PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT). IF THERE IS NOT A SUFFICIENT AMOUNT OF COLD PLANE GRINDINGS AVAILABLE TO PRODUCE THE THREE INCH LIFT OF PORTLAND CEMENT STABILIZED COLD MIX, THE CONTRACTOR SHALL OBTAIN THE NECESSARY MATERIAL FROM ANOTHER SOURCE. THE COST ASSOCIATED WITH PROVIDING ADDITIONAL COLD PLANE GRINDINGS WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT).
6. FOR THE PURPOSES OF QUANTITY CALCULATION, THE FOLLOWING ASSUMPTIONS HAVE BEEN MADE: ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT) WILL REQUIRE THREE PERCENT BY WEIGHT OF ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT, COLD MIX WITH CEMENT); ITEM 900.625 SPECIAL PROVISION (LIQUID CALCIUM CHLORIDE FOR BASE STABILIZATION) WAS ESTIMATED AT FOUR PERCENT BY WEIGHT OF ITEM 900.675 SPECIAL PROVISION (RECLAIMED STABILIZED BASE, LIQUID CALCIUM CHLORIDE); ITEM 900.680 SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING) WAS ESTIMATED AT ONE PERCENT BY WEIGHT OF ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT); AND ITEM 900.683 SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) WAS ESTIMATED AT AN APPLICATION RATE OF 0.15 GAL/SY.
7. SUBBASE OF CRUSHED GRAVEL, FINE GRADED TOLERANCE = +/- 1" (TOTAL SUBBASE THICKNESS).
COLD MIXED RECYCLED BITUMINOUS PAVEMENT TOLERANCE = +/- 1/4"
SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4" (TOTAL PAVEMENT THICKNESS).
PAVER PLACED SURFACE TREATMENT, TYPE C (PG 58-28) TOLERANCE = +/- 1/8"
8. EMULSIFIED ASPHALT SHALL BE APPLIED AS TACK COAT ON ALL EXISTING OR COLD PLANED PAVEMENT SURFACES AT THE RATE OF 0.080 GAL/SY, 0.040 TO 0.060 GAL/SY ON ALL COLD MIX PAVEMENT SURFACES, AND BETWEEN ALL COURSES OF BITUMINOUS CONCRETE PAVEMENT AT THE RATE OF 0.025 TO 0.040 GAL/SY. PAYMENT WILL BE UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT, COLD MIX WITH CEMENT) AND OPTIONED ITEMS 404.65 EMULSIFIED ASPHALT (RS-I) OR 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH).
9. THE WEARING COURSE SHALL BE SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (PG 58-28) (3/4" +/- 1/8" LT). THE INTERMEDIATE COURSE SHALL BE TYPE IIS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, AND THE BASE COURSE SHALL BE SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT). ALL ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SUBSECTION 490.03B.
10. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER OPTIONED ITEMS 402.12 AGGREGATE SHOULDERS OR 402.13 AGGREGATE SHOULDERS, RAP.
11. ALL PAVED AND GRAVEL DRIVES SHALL RECEIVE A MINIMUM PAVED APRON OF FOUR FEET AND ALL FIELD ACCESSES SHALL RECEIVE A MINIMUM TWO FEET PAVED APRON UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 900.675, "SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)". AN EXTRA QUANTITY OF ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED HAS BEEN INCLUDED TO TIE THE PROPOSED PAVED APRON INTO THE EXISTING DRIVE BEYOND THE PAVING LIMIT.
12. ITEM 613.10 STONE FILL, TYPE I; ITEM 651.40 GRUBBING MATERIAL (6"); ITEM 653.20 TEMPORARY EROSION MATTING; AND ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I HAVE BEEN INCLUDED FOR AREAS WITH PROPOSED SIDE SLOPES STEEPER THAN 1:1.5 AND TO PROVIDE FOR REPAIR OF EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE ENGINEER.
13. ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED; ITEM 651.40 GRUBBING MATERIAL (2"); ITEM 653.20 TEMPORARY EROSION MATTING HAS BEEN INCLUDED FOR AREAS WITH PROPOSED SIDE SLOPES OF 1:1.5 AND FLATTER AS DIRECTED BY THE ENGINEER.
14. THE COLD PLANED SURFACE SHALL HAVE SURFACE PREPARATION BEFORE THE INTERMEDIATE COURSE IS LAID. SURFACE PREPARATION SHALL CONSIST OF POT HOLE PATCHING AND PATCHING OF ALL LARGE CRACKS THAT ARE AT LEAST ONE INCH IN WIDTH AND WILL BE PAID FOR UNDER ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPATION, TYPE II).
15. AN EXTRA QUANTITY OF ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT HAS BEEN ADDED TO THE HOT MIX TOTAL FOR SPOT LEVELING BEFORE FULL WIDTH LEVELING IN AN EFFORT TO CORRECT THE WORST PROFILE DEFICIENCIES AS DIRECTED BY THE ENGINEER. IF MORE THAN TWO INCHES OF SPOT LEVELING IS REQUIRED TO CORRECT PROFILE DEFICIENCIES MULTIPLE LIFTS WITH A MAXIMUM LIFT THICKNESS OF TWO INCHES WILL BE REQUIRED.
16. DAMAGE INFLECTED BY THE CONTRACTOR TO ANY DROP INLETS, CROSS-CULVERTS, OR OTHER DRAINAGE FEATURES IS THE LIABILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
17. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS (FOR CULVERTS UNDER 30 INCH DIAMETER) HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
18. THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF THE GUARDRAIL. A 3'-7" OF BACKING IS REQUIRED BEHIND THE FACE OF ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED. IF THIS CANNOT BE OBTAINED, ITEM 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS SHALL BE USED.

NOTES (CONT'D)

19. ESTIMATED QUANTITIES OF ITEMS 608.25, "ALL PURPOSE EXCAVATOR RENTAL, TYPE I", 608.37, "TRUCK RENTAL", AND 608.40, "LOADER RENTAL, TYPE I" HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL AND THE REMOVAL OF BUILT UP EXCESS SHOULDER MATERIAL. AN ESTIMATED QUANTITY OF ITEM 203.30, "EARTH BORROW" HAS BEEN INCLUDED FOR USE WITH THE GUARDRAIL END SECTION AREAS. 25 CY OF ITEM 203.30, "EARTH BORROW" HAS BEEN ESTIMATED FOR EACH NEW AREA. THESE AREAS SHALL BE CAPPED WITH AN ESTIMATED THREE INCH DEPTH OF ITEM 651.35, "TOPSOIL" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE QUANTITIES INCLUDED REFLECT FIVE CY OF ITEM 651.35, "TOPSOIL" FOR EACH NEW AREA. ITEM 653.20, "TEMPORARY EROSION MATTING" SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL END SECTION AREAS. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, "TEMPORARY EROSION MATTING" FOR EACH NEW AREA. PRIOR TO THE PLACEMENT OF TEMPORARY EROSION MATTING, THE AREA SHALL BE TOPSOILED AND SEEDED USING ITEM 651.35, "TOPSOIL" AND ITEM 651.15, "SEED".
20. WHEN FINISHED GRADE HAS BEEN MET, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS BEING RETAINED ARE IN CONFORMANCE WITH VAOT STANDARD E-121 AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITIES OF ITEM 675.341 SQUARE TUBE SIGN POST AND ANCHOR, ITEM 675.50 REMOVING SIGNS, AND ITEM 675.60 ERECTING SALVAGED SIGNS HAVE BEEN INCLUDED.
21. ITEM 201.10, CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS, HAS BEEN INCLUDED TO REMOVE ANY VEGETATION, PARTIAL AND FULL TREE REMOVAL, AND ANY ASSOCIATED GRUBBING WITHIN THE ASSUMED RIGHT-OF-WAY. THE ENGINEER MAY EXCLUDE REMOVAL IN SOME AREAS WHERE DEEMED NECESSARY AND APPROPRIATE OR NECESSITATED BY PERMIT REQUIREMENTS PER THE REGIONAL CONSTRUCTION ENVIRONMENTAL ENGINEER'S RECOMMENDATIONS.
22. ITEM 649.51 GEOTEXTILE FOR SILT FENCE AND ITEM 653.60 EROSION LOG SHALL BE USED AT LOCATIONS DETERMINED BY THE ENGINEER. FOR ESTIMATING PURPOSES, IT WAS ASSUMED THAT THESE ITEMS WOULD BE PLACED ALONG THE TOE-OF-SLOPE AT STONE FILL INSTALLATIONS NEAR AND AWAY FROM ACTIVE WATER, RESPECTIVELY. GEOTEXTILE FOR SILT FENCE AND EROSION LOGS ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
23. ~~ITEM 900.683 SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) SHALL BE APPLIED ON THE SURFACE OF SPECIAL PROVISION (RECLAIMED STABILIZED BASE, LIQUID CALCIUM CHLORIDE) AT THE RATE OF 0.15 GAL/SY OR AS DIRECTED BY THE ENGINEER.~~

TYPICAL ORDER OF OPERATIONS FOR RECLAIMED STABILIZED BASE WITH CALCIUM CHLORIDE PAVEMENT REHABILITATION

STEP	DESCRIPTION	PAYMENT ITEM(S)
1	INSTALL DRAINAGE PIPES, DRAINAGE STRUCTURES, AND UNDERDRAIN	ITEM 605.10 6 INCH UNDERDRAIN PIPE
2	CONSTRUCT SIDE SLOPES AS DIRECTED BY THE ENGINEER	ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 613.10 STONE FILL, TYPE I, ITEM 651.40 GRUBBING MATERIAL, ITEM 653.20 TEMPORARY EROSION MATTING
3	COLD PLANE EXISTING BITUMINOUS CONCRETE PAVEMENT 4"	ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT
4	REPAIR EXISTING SHOULDERS AS DIRECTED BY THE ENGINEER	ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED
5	RECLAIM EXISTING ROADBED 10" FROM TOP OF SLOPE TO TOP OF SLOPE USING WATER FOR STABILIZATION AND COMPACTION AND COMPLETE UNDERCUTS AS DIRECTED BY THE ENGINEER	ITEM 203.15 COMMON EXCAVATION, ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, ITEM 301.35 SUBBASE OF DENSE GRADED CRUSHED STONE, ITEM 310.20 RECLAIMED STABILIZED BASE (SEE NOTE 4), ITEM 649.11 GEOTEXTILE FOR ROADBED SEPARATOR
6	CORRECT SUPERELEVATION DEFICIENCIES	ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED (SEE NOTE 3)
7	INJECT CALCIUM CHLORIDE SOLUTION THROUGH RECLAIMER AT A RATE OF 0.75 GAL/SY AND RECLAIM TO DEPTH OF 8".	ITEM 900.625 SPECIAL PROVISION (LIQUID CALCIUM CHLORIDE FOR BASE STABILIZATION) AND ITEM 900.675 SPECIAL PROVISION (RECLAIMED STABILIZED BASE, LIQUID CALCIUM CHLORIDE)
8	SPRAY APPLY CALCIUM SOLUTION AT A RATE OF 0.25 GAL/SY TO FINE GRADED SURFACE FOLLOWING FINISHED COMPACTION, CURE, AND APPLY FOG SEAL SURFACE TREATMENT AT A RATE OF 0.15 GAL/SY.	ITEM 900.625 SPECIAL PROVISION (LIQUID CALCIUM CHLORIDE FOR BASE STABILIZATION) AND ITEM 900.683 SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)
9	PLACE 3" COLD MIXED RECYCLED ASPHALT WITH PORTLAND CEMENT AND USE EMULSIFIED ASPHALT AS A LIQUID BINDER	ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT), ITEM 900.680 SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING) AND ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT, COLD MIX WITH CEMENT)
10	PLACE 2 3/4" TYPE IIS INTERMEDIATE COURSE	ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AND OPTION ITEM 404.65 EMULSIFIED ASPHALT (RS-I) OR OPTION ITEM 900.683 EMULSIFIED ASPHALT (RS-IH OR CRS-IH)
11	PLACE 3/4" WEARING COURSE	ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (PG 58-28) (3/4" +/- 1/8" LT) AND OPTION ITEM 404.65 EMULSIFIED ASPHALT (RS-I) OR OPTION ITEM 900.683 EMULSIFIED ASPHALT (RS-IH OR CRS-IH)

NOTE:

1. THIS LIST OF PROCEDURES FOR REHABILITATING THE EXISTING ROADBED IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL PREPARE THEIR OWN SCHEDULE OF OPERATIONS TO COMPLETE THE PROPOSED WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS WHILE UTILIZING THE APPROPRIATE PAY ITEMS AS SHOWN IN THE PLANS AS DIRECTED BY THE ENGINEER.

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PROJECT NUMBER: ER STP 0162(21)

FILE NAME: z13cl76typ03.dgn PLOT DATE: 1/26/2017
PROJECT LEADER: D. GOZALKOWSKI DRAWN BY: J. HEALD
DESIGNED BY: J. OLSEN CHECKED BY: J. SHIELDS
PROJECT NOTES SHEET SHEET 8 OF 360

