

REVISION DATE 10/30/19

30-OCT-2019

Sample Plan

SOILS AND CONSTRUCTION NOTES ----- NARRATIVE

References:

Design Scene: Chapter 4 - Earthwork

General Information:

Construction notes are general in nature. Specific construction notes shall be shown on the sheets to which they apply.

Include all notes from the soils letter that are indicated by a single vertical line in the left margin.

Consider using other notes that may be applicable to your project such as those shown on the Sample Plan Sheet.

Grading density requirements should not be included unless specified in the soils letter.

Bituminous compaction notes shall not be indicated. Include these in the Special Provisions.

Designer should consult with Materials Engineer to eliminate or consolidate small aggregate or bituminous quantity items whenever possible.

Coordinate with the Office of Environmental Stewardship and Metro Maintenance about the locations of noxious weeds within the Project limits. Show mapping of existing noxious weed areas and their variety on the Inplace Topography, Removals, or in its' own plan set both inside and outside construction limits. Consult with Maintenance regarding the treatment or removal of these noxious weeds.

Sample Plan

SOILS AND CONSTRUCTION NOTES ----- CHECKLIST

- 1. Soils letter notes incorporated
- 2. Notes for applicability
- 3. Cross references to other sheets (as applicable)
- 4. Drawn By: and Checked By: Initials and Engineer's Signature

SOILS AND CONSTRUCTION NOTES NARRATIVE AND CHECKLIST

SOILS AND CONSTRUCTION NOTES

1. DO NOT USE A NUCLEAR GAUGE TO DETERMINE DENSITY OR MOISTURE CONTENT FOR QUALITY ASSURANCE OR VERIFICATION TESTING FOR ANY MATERIAL MEETING MNDOT 2105, 2106, 2112, 2211, 2212, 2215, 2118, 2221, 2331, 2451, 2502, OR 2511. USE OF A NUCLEAR GAUGE FOR QUALITY CONTROL TESTING IS ALLOWED ACCORDING TO THE GRADING & BASE MANUAL.
2. OBTAIN COMPACTION ON THE TEMPORARY GRADING AND AGGREGATE BASE PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE QUALITY COMPACTION METHOD REQUIREMENTS.
3. WHERE CONNECTING NEW SURFACING ADJACENT TO ANY EXISTING PAVEMENTS TO BE WIDENED, CUT VERTICALLY TO THE BOTTOM OF THE EXISTING SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 2:1 (V:H) SLOPE TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
4. WHERE CONNECTING TO EXISTING ROADWAYS AT THE TERMINI OF PROPOSED CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE EXISTING SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 1:20 (V:H) TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
5. AS A PRECAUTIONARY MEASURE FROM A SOILS STANDPOINT, TRAFFIC LANES TO BE USED DURING CONSTRUCTION MUST BE DELINEATED TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM THE ADJACENT EXCAVATION. THE DELINEATION SHOULD COINCIDE WITH POINTS ESTABLISHED BY PROJECTING 1(V):2(H) OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION.
6. WHEN REMOVING PAVEMENTS, FULL-DEPTH SAWCUTS SHOULD BE MADE PERPENDICULAR TO THE ROADWAY CENTERLINE AND ALONG EXISTING LANE LINES TO ENSURE A UNIFORM JOINT.
7. TEST ROLLING SHALL NOT BE REQUIRED ON THIS PROJECT.
8. WHERE MATCHING INTO INPLACE CROSSROADS, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW SURFACING DESIGN, WHICHEVER IS DEEPER, THEN AT A 1:4 TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
9. STRIP AND REUSE AS SLOPE DRESSING ALL TOPSOIL AND INPLACE SLOPE DRESSING WHERE PRESENT IN AREAS TO BE DISTURBED BY CONSTRUCTION. (APPROXIMATE DIMENSIONS ENCOUNTERED ARE 3" MINIMUM TO 24" MAXIMUM AND AVERAGE 9".) SLOPE DRESSING ON THIS PROJECT IS DEFINED AS THE INPLACE TOPSOIL OR OTHER SOIL PLACED DURING PRIOR CONSTRUCTION TO PROVIDE A MEDIUM FOR ESTABLISHING TURF.
10. THIS IS A REMINDER THAT UNDER STATE LAW IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE CALL.
11. PROVIDE A UNIFORM TACK COAT BETWEEN ALL BITUMINOUS LAYERS AND PRIOR TO PLACING ANY BITUMINOUS MIXTURES ON EXISTING PAVEMENT IN ACCORDANCE WITH SPECIFICATION 2357 (INCIDENTAL).
12. APPLY JOINT ADHESIVE ON LONGITUDINAL CONSTRUCTION JOINTS BETWEEN ADJACENT BITUMINOUS PAVEMENTS OR BETWEEN BITUMINOUS PAVEMENT AND CONCRETE PAVEMENT IN ACCORDANCE WITH SPECIAL PROVISION 2331 PAVEMENT JOINT ADHESIVE. JOINT ADHESIVE IS NOT REQUIRED WHEN ADJACENT LANES ARE PAVED USING ECHELON PAVING.
13. BE ADVISED THAT BUMPS MAY FORM WHEN PAVING AND COMPACTING NEW BITUMINOUS PAVEMENT OVER EXISTING CONCRETE PAVEMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE NECESSARY ACTION TO MITIGATE THESE BUMPS, AT NO COST TO THE STATE. THE CONTRACT WILL BE SUBJECT TO SPECIFICATION 2399 PAVEMENT SURFACE SMOOTHNESS.
14. AFTER MILLING THE PAVEMENT TO THE REQUIRED DEPTH AND PRIOR TO OVERLAYING, AIR BLAST ANY DETERIORATED CRACKS AND JOINTS TO REMOVE LOOSE OR DETERIORATED BITUMINOUS SURFACING. THE AIR BLASTING SHALL BE DONE WITH HIGH-PRESSURE (100+ PSI) EQUIPMENT. PAYMENT FOR THIS WORK SHALL BE MADE UNDER SPECIFICATION 2231.
15. CRACKS OR DEPRESSIONS RESULTING AFTER SURFACE REPAIR, AIR BLASTING, SWEEPING OR MILLING OPERATIONS, WHICH ARE GREATER THAN 1" IN DEPTH AND WIDTH, SHALL BE PATCHED WITH BITUMINOUS PATCHING MIXTURE. PATCHING OF THESE AREAS SHALL BE DONE AHEAD OF THE PAVING OPERATION AND COMPACTED WITH A SMALL VIBRATORY OR PNEUMATIC ROLLER. DEPRESSIONS OF LESSER DIMENSIONS SHALL BE FILLED WITH THE BITUMINOUS COURSE MIXTURE, IN FRONT OF THE PAVER, AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL PROVIDE OUTLET TRENCHES AND TAKE MEASURES NECESSARY, AS DIRECTED BY THE ENGINEER, TO ALLOW SURFACE DRAINAGE OF THE MILLED SURFACE. PAYMENT FOR MILLING AND PATCHING THE OUTLET TRENCHES SHALL BE MADE UNDER SPECIFICATION 2231.

SAMPLE PLAN

DISTRIC * : Metro
PLOT NAME : soilconof
FILENAME : Projects\DM_R0S\Won_Proj\ect\Des\gn\SamplePlanE\ngl\sh\soilconof.dgn
PLOTTER: HP DesignJet 500