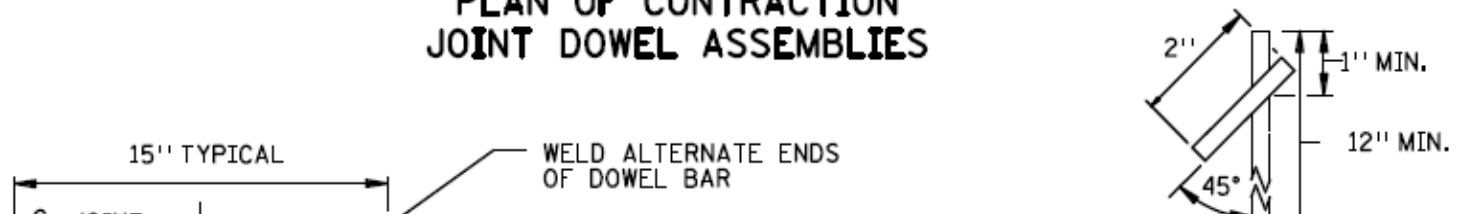


**PLAN OF CONTRACTION
JOINT DOWEL ASSEMBLIES**



PLAN PRESENTATION BASICS STANDARD PLATES & SOILS and CONSTRUCTION NOTES

Project Design Services Unit

June 2019

STANDARD PLATES & SOILS and CONSTRUCTION NOTES (SCN)

In this section you will be introduced to the basic parts of the standard plates and soils and construction notes.

DISTRICT #: METRO (PLANT) NAME: 62066327 JAR FILE NAME: P:\0606\06\2015\007\2706\237\Design\Photos\new\0706237_2015.dwg PLOTTED/REVISED: 06-DEC-2015 08:55	<p style="text-align: center;">SOILS AND CONSTRUCTION NOTES</p> <ol style="list-style-type: none"> 1. STRIP ALL SOIL AND TOPSOIL FROM AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING. TOPSOIL STRIPPING IS PAID FOR AS EXCAVATION - COMMON AND PLACEMENT OF SLOPE DRESSING IS PAID FOR AS COMMON EMBANKMENT. 2. DO NOT USE A NUCLEAR GAUGE TO DETERMINE DENSITY OR MOISTURE CONTENT FOR QUALITY ASSURANCE OR VERIFICATION TESTING FOR ANY MATERIAL. TESTING UNDER 2109, 2109, 2112, 2211, 2212, 2215, 2119, 2221, 2331, 2431, 2502, 06 SOIL. USE OF A NUCLEAR GAUGE FOR QUALITY CONTROL TESTING IS ALLOWED ACCORDING TO THE GRADING & BASE MANUAL. 3. IN ANY CASE WHERE GRANULAR EMBANKMENTS JOIN NON-GRANULAR SOIL EMBANKMENTS, PROVIDE A 1:20 (V:H) TRANSITION BETWEEN THE CHANGE IN MATERIAL TO PREVENT AN ABRUPT SOILS DIFFERENTIAL. CONSTRUCT THE 1:20 (V:H) TRANSITION SUCH THAT THE GRANULAR MATERIAL OVERLAYS THE ADJACENT NON-GRANULAR SOIL. 4. 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. 5. 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. 6. WHERE MATCHING INTO IN-PLACE CROSSROADS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE SURFACING, THEN AT A 1:4H SLOPE TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION. 7. PROVIDE FOR 1(V):20(H) TAPERS WHEN CHANGING SUBCUT DEPTHS. 8. AS A PRECAUTIONARY MEASURE FROM A SOILS STAMPOUT, 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):20(H) OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION. 9. PROVIDE A SAR CUT WHERE PLACING NEW PAVEMENT NEXT TO IN-PLACE PAVEMENT TO ENSURE A UNIFORM JOINT. 10. SHAPE AND RE-COMPACT ANY AGGREGATE BASE THAT IS EXPOSED AFTER MILLING OR REMOVING THE BITUMINOUS SHOULDER PAVEMENT. PERFORM THIS WORK AHEAD OF THE SHOULDER PAVING OPERATION AND IN ACCORDANCE WITH THE "QUALITY COMPACTION METHOD". THIS WORK WILL BE INCIDENTAL FOR WHICH NO PAYMENT WILL BE MADE. 11. OBTAIN COMPACTION ON THE GRADING PORTION OF CONSTRUCTION IN ACCORDANCE WITH THE PENETRATION INDEX METHOD REQUIREMENTS. 12. 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 COPPER STATE ONE CALL. 13. 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). 14. JOINT ADHESIVE SHALL BE USED ON LONGITUDINAL CONSTRUCTION JOINTS BETWEEN ADJACENT BITUMINOUS PAVEMENTS OR BETWEEN BITUMINOUS PAVEMENT AND CONCRETE PAVEMENT IN ACCORDANCE WITH SPECIAL PROVISION 2351 PAVEMENT JOINT ADHESIVE. 15. THE CONTRACTOR IS 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. 16. 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 2331. 17. CRACKS OR DEPRESSIONS RESULTING AFTER SURFACE REPAIR, AIR BLAST ANY DETERIORATED OR MILLING OPERATIONS, WHICH ARE GREATER THAN 1/8" 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 LESSEER DIMENSIONS SHALL BE FILLED WITH THE BITUMINOUS COURSE MIXTURE, IN FRONT OF THE PAVEMENT, AS DIRECTED BY THE ENGINEER. 18. 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 2331. 	<p style="text-align: center;">THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT</p> <p style="text-align: center;">STANDARD PLATES</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th style="width: 15%;">PLATE NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>3000</td><td>REINFORCED CONCRETE PIPE (8 SHEETS)</td></tr> <tr><td>3006</td><td>BASKET JOINT FOR R.C. PIPE (2 SHEETS)</td></tr> <tr><td>3022C</td><td>PRECAST CONCRETE SAFETY APRON (3 SHEETS)</td></tr> <tr><td>3100</td><td>CONCRETE APRON FOR REINFORCED CONCRETE PIPE</td></tr> <tr><td>3110</td><td>CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH</td></tr> <tr><td>3124B</td><td>METAL APRON CONNECTION</td></tr> <tr><td>3128H</td><td>METAL SAFETY APRON & GRATE (2 SHEETS)</td></tr> <tr><td>4005M</td><td>MANHOLE OR CATCH BASIN TYPE A & B CONE SECTIONS PRECAST - DESIGN F</td></tr> <tr><td>4006</td><td>MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H</td></tr> <tr><td>402CJ</td><td>MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)</td></tr> <tr><td>4026A</td><td>CONCRETE ENCASED CONCRETE ADJUSTING RINGS</td></tr> <tr><td>4101D</td><td>RING CASTING FOR MANHOLE OR CATCH BASIN</td></tr> <tr><td>4108F</td><td>ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES</td></tr> <tr><td>4110F</td><td>COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) * CASTING NO. 715 AND 716</td></tr> <tr><td>4132F</td><td>CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 805</td></tr> <tr><td>4143E</td><td>STOOL GRATE & CONCRETE FRAME (MEDIAN DRAINS) - CASTING NO. 731</td></tr> <tr><td>4154B</td><td>CATCH BASIN GRATE CASTING - CASTING NO. 816</td></tr> <tr><td>4180J</td><td>MANHOLE OR CATCH BASIN STEP</td></tr> <tr><td>7038A</td><td>DETECTABLE WARNING SURFACE TRUNCATED DOMES</td></tr> <tr><td>7100H</td><td>CONCRETE CURB AND GUTTER (DESIGN B and DESIGN V)</td></tr> <tr><td>7113A</td><td>CONCRETE APPROACH NOSE DETAIL</td></tr> <tr><td>800DJ</td><td>CHANNELIZERS</td></tr> <tr><td>8150C</td><td>INSTALLATION OF CULVERT MARKERS</td></tr> <tr><td>8508B</td><td>REINFORCED CONCRETE MEDIAN BARRIER TYPE F (NON-CLARE SCREEN TYPE) DESIGN 8308 (3 SHEETS)</td></tr> <tr><td>8516C</td><td>GUARDRAIL ANCHORAGE PLATE FOR BRIDGES AND BCI'S</td></tr> <tr><td>8550A</td><td>THREE BEAM ANCHORAGE PLATE</td></tr> <tr><td>8552A</td><td>THREE BEAM WEDGE PLATE FOR SINGLE SLOPE BARRIER</td></tr> <tr><td>8562A</td><td>GUARDRAIL POST LENGTH MARKING</td></tr> </tbody> </table> <p style="font-size: 8px;">NOTE: FOR ADDITIONAL STANDARD PLATES, SEE SHEET S52 AND S21.</p>	PLATE NO.	DESCRIPTION	3000	REINFORCED CONCRETE PIPE (8 SHEETS)	3006	BASKET JOINT FOR R.C. 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DRAWN BY: GJ	CHECKED BY: RN	CERTIFIED BY: L.T.C. NO. 43348 DATE 12/06/17	SOILS & CONSTRUCTION NOTES AND STANDARD PLATES STATE PROJ. NO. 2706-237 (T.H. 7) SHEET NO. 8 OF 133 SHEETS																																																									

STANDARD PLATES

Standard Plate table should be included in most plans. It contains a list of the most recent standard plates used in the plan.

STANDARD PLATES	
THE FOLLOWING STANDARD PLATES, APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
PLATE NO.	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE
3014J	REINFORCED CONCRETE PIPE ARCH
3022C	PRECAST CONCRETE SAFETY APRON
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE ARCH
3122K	METAL APRON FOR C.M. PIPE-ARCH CULVERT
3132A	GRATE FOR 1:4 PRECAST CONCRETE APRONS
3133D	RIPRAP AT RCP OUTLETS
3142A	OUTLET SCREEN FOR C.M. & S.C. PIPES
3145G	CONCRETE PIPE OR PRECAST CULVERT TIES
8000J	CHANNELIZERS
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

STANDARD PLATES

Standard plates can be placed with the statement of estimated quantities or tables....

STATEMENT OF ESTIMATED QUANTITIES (A)			STATEMENT OF ESTIMATED QUANTITIES (A)						
SHEET NO.	ITEM NO.	DESCRIPTION	UNITS	TOTAL ESTIMATED QUANTITIES	SHEET NO.	ITEM NO.	DESCRIPTION	UNITS	TOTAL ESTIMATED QUANTITIES
1	1001-00	PREPARED SURFACE	SQ YD	1000	1	1001-00	PREPARED SURFACE	SQ YD	1000
1	1002-00	CONCRETE	CY	1000	1	1002-00	CONCRETE	CY	1000
1	1003-00	STEEL	TON	1000	1	1003-00	STEEL	TON	1000
1	1004-00	PAVING	SQ YD	1000	1	1004-00	PAVING	SQ YD	1000
1	1005-00	GRASS	SQ YD	1000	1	1005-00	GRASS	SQ YD	1000
1	1006-00	LANDSCAPING	SQ YD	1000	1	1006-00	LANDSCAPING	SQ YD	1000
1	1007-00	PAVING	SQ YD	1000	1	1007-00	PAVING	SQ YD	1000
1	1008-00	CONCRETE	CY	1000	1	1008-00	CONCRETE	CY	1000
1	1009-00	STEEL	TON	1000	1	1009-00	STEEL	TON	1000
1	1010-00	PAVING	SQ YD	1000	1	1010-00	PAVING	SQ YD	1000
1	1011-00	CONCRETE	CY	1000	1	1011-00	CONCRETE	CY	1000
1	1012-00	STEEL	TON	1000	1	1012-00	STEEL	TON	1000
1	1013-00	PAVING	SQ YD	1000	1	1013-00	PAVING	SQ YD	1000
1	1014-00	CONCRETE	CY	1000	1	1014-00	CONCRETE	CY	1000
1	1015-00	STEEL	TON	1000	1	1015-00	STEEL	TON	1000
1	1016-00	PAVING	SQ YD	1000	1	1016-00	PAVING	SQ YD	1000
1	1017-00	CONCRETE	CY	1000	1	1017-00	CONCRETE	CY	1000
1	1018-00	STEEL	TON	1000	1	1018-00	STEEL	TON	1000
1	1019-00	PAVING	SQ YD	1000	1	1019-00	PAVING	SQ YD	1000
1	1020-00	CONCRETE	CY	1000	1	1020-00	CONCRETE	CY	1000
1	1021-00	STEEL	TON	1000	1	1021-00	STEEL	TON	1000
1	1022-00	PAVING	SQ YD	1000	1	1022-00	PAVING	SQ YD	1000
1	1023-00	CONCRETE	CY	1000	1	1023-00	CONCRETE	CY	1000
1	1024-00	STEEL	TON	1000	1	1024-00	STEEL	TON	1000
1	1025-00	PAVING	SQ YD	1000	1	1025-00	PAVING	SQ YD	1000
1	1026-00	CONCRETE	CY	1000	1	1026-00	CONCRETE	CY	1000
1	1027-00	STEEL	TON	1000	1	1027-00	STEEL	TON	1000
1	1028-00	PAVING	SQ YD	1000	1	1028-00	PAVING	SQ YD	1000
1	1029-00	CONCRETE	CY	1000	1	1029-00	CONCRETE	CY	1000
1	1030-00	STEEL	TON	1000	1	1030-00	STEEL	TON	1000
1	1031-00	PAVING	SQ YD	1000	1	1031-00	PAVING	SQ YD	1000
1	1032-00	CONCRETE	CY	1000	1	1032-00	CONCRETE	CY	1000
1	1033-00	STEEL	TON	1000	1	1033-00	STEEL	TON	1000
1	1034-00	PAVING	SQ YD	1000	1	1034-00	PAVING	SQ YD	1000
1	1035-00	CONCRETE	CY	1000	1	1035-00	CONCRETE	CY	1000
1	1036-00	STEEL	TON	1000	1	1036-00	STEEL	TON	1000
1	1037-00	PAVING	SQ YD	1000	1	1037-00	PAVING	SQ YD	1000
1	1038-00	CONCRETE	CY	1000	1	1038-00	CONCRETE	CY	1000
1	1039-00	STEEL	TON	1000	1	1039-00	STEEL	TON	1000
1	1040-00	PAVING	SQ YD	1000	1	1040-00	PAVING	SQ YD	1000
1	1041-00	CONCRETE	CY	1000	1	1041-00	CONCRETE	CY	1000
1	1042-00	STEEL	TON	1000	1	1042-00	STEEL	TON	1000
1	1043-00	PAVING	SQ YD	1000	1	1043-00	PAVING	SQ YD	1000
1	1044-00	CONCRETE	CY	1000	1	1044-00	CONCRETE	CY	1000
1	1045-00	STEEL	TON	1000	1	1045-00	STEEL	TON	1000
1	1046-00	PAVING	SQ YD	1000	1	1046-00	PAVING	SQ YD	1000
1	1047-00	CONCRETE	CY	1000	1	1047-00	CONCRETE	CY	1000
1	1048-00	STEEL	TON	1000	1	1048-00	STEEL	TON	1000
1	1049-00	PAVING	SQ YD	1000	1	1049-00	PAVING	SQ YD	1000
1	1050-00	CONCRETE	CY	1000	1	1050-00	CONCRETE	CY	1000
1	1051-00	STEEL	TON	1000	1	1051-00	STEEL	TON	1000
1	1052-00	PAVING	SQ YD	1000	1	1052-00	PAVING	SQ YD	1000
1	1053-00	CONCRETE	CY	1000	1	1053-00	CONCRETE	CY	1000
1	1054-00	STEEL	TON	1000	1	1054-00	STEEL	TON	1000
1	1055-00	PAVING	SQ YD	1000	1	1055-00	PAVING	SQ YD	1000
1	1056-00	CONCRETE	CY	1000	1	1056-00	CONCRETE	CY	1000
1	1057-00	STEEL	TON	1000	1	1057-00	STEEL	TON	1000
1	1058-00	PAVING	SQ YD	1000	1	1058-00	PAVING	SQ YD	1000
1	1059-00	CONCRETE	CY	1000	1	1059-00	CONCRETE	CY	1000
1	1060-00	STEEL	TON	1000	1	1060-00	STEEL	TON	1000

STANDARD PLATES	
3000L	REINFORCED CONCRETE PIPE
3014J	REINFORCED CONCRETE PIPE ARCH
3022C	PRECAST CONCRETE SAFETY APRON
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE ARCH
3122K	METAL APRON FOR C.M. PIPE-ARCH CULVERT
3132A	GRATE FOR 1:4 PRECAST CONCRETE APRONS
3133D	RIPRAP AT RCP OUTLETS
3142A	OUTLET SCREEN FOR C.M. & S.C. PIPES
3145G	CONCRETE PIPE OR PRECAST CULVERT TIES
8000J	CHANNELIZERS
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

STANDARD PLATES	
THE FOLLOWING STANDARD PLATES, APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
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STANDARD PLATES

But the Standard Plates table is usually included in the soils and construction notes.

PLATE NO. 7038A, 7100H, 7113A, 8000J, 8112I, 8122F, 8126L, 8129A

PLATE NO. 7038A, 7100H, 7113A, 8000J, 8112I, 8122F, 8126L, 8129A

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B and DESIGN V)
7113A	CONCRETE APPROACH NOSE DETAIL
8000J	CHANNELIZERS (3 SHEETS)
8112I	PEDESTAL FOUNDATION (TRAFFIC CONTROL SIGNALS)
8122F	PEDESTAL AND PEDESTAL BASE (FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS)
8126L	POLE FOUNDATION (PA90 AND PA100)
8129A	SHIM AND WASHER (TRAFFIC CONTROL SIGNALS AND ROADWAY LIGHTING)

SOILS & CONSTRUCTION NOTES

- ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED BY OUTSIDE OF THE RIGHT OF WAY ACCORDING TO SPEC 2104.
- PERPETUATE DRAINAGE ON ALL AREAS DISTURBED BY CONSTRUCTION (INCIDENTAL).
- IN AREAS DISTURBED BY CONSTRUCTION, ALL SLOPE DRESSING SHALL BE STRIPPED AND RE-USED AS SLOPE DRESSING.
- STREPPING OF MATERIAL WILL NOT BE ALLOWED IN ADJACENT RETAINING.
- SOILS REMOVED FROM THE PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF SILTY CLAY LOAM, SILTY LOAM, SILTY CLAY, TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSUITABLE MATERIAL.
- THE ABBREVIATION "UTRAC" IN THIS PLAN MEANS ULTRATRAC BONDED WEARING COURSE.

UTILITY NOTES

- THE SUBSURFACE UTILITY INFORMATION ON THE PLAN IS UTILITY QUALITY LEVEL A. THIS UTILITY QUALITY LEVEL AND PERFORMANCE ACCORDING TO THE GUIDELINES OF STANDARD GUIDELINES FOR THE COLLECTION AND REJECTION OF EXISTING SUBSURFACE UTILITY DATA.
- THE FOLLOWING UTILITY OWNERS HAVE EXISTING FACILITIES IN THE AREA OF CONSTRUCTION. THESE UTILITIES WILL NOT BE AFFECTED BY WORK UNDER THIS CONTRACT. THE UTILITIES LISTED BELOW ARE FOR INFORMATIONAL PURPOSES ONLY.
- ARVEST, CENTER POINT ENERGY, CENTURYLINK, CHARTER COMMUNICATIONS, CITY OF NEW LONDON, CITY OF SPECIFIC LOCAL USE, SOUTHWEST ELECTRICITY, SOUTHWEST POWER COOP, WISCONSIN, NO TELECOM, IES TELECOM, XCEL ENERGY (EAS), XCEL ENERGY (POWER)
- THE CONTRACTOR IS HEREBY ADVISED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. THE CONTACT MUST BE MADE THROUGH KOSHER STATE ONE-CALL.
- POWER LINES WITHIN THE PROJECT ARE DISTRIBUTION AND TRANSMISSION (69 KV & 400 KV).

CERTIFIED BY LIC. NO. 47531 DATE: 8/26/2018

STANDARD PLATES, SOILS & CONSTRUCTION NOTES AND UTILITY NOTES
STATE PROJ. NO. 3413-90 (TH 23) SHEET NO. 4 OF 80 SHEETS

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B and DESIGN V)
7113A	CONCRETE APPROACH NOSE DETAIL
8000J	CHANNELIZERS (3 SHEETS)
8112I	PEDESTAL FOUNDATION (TRAFFIC CONTROL SIGNALS)
8122F	PEDESTAL AND PEDESTAL BASE (FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS)
8126L	POLE FOUNDATION (PA90 AND PA100)
8129A	SHIM AND WASHER (TRAFFIC CONTROL SIGNALS AND ROADWAY LIGHTING)

STANDARD PLATES

The tabulation should always include the most recent version/letter. This is the only location where the letter should be included with the standard plate reference.

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT	
STANDARD PLATES	
PLATE NO.	DESCRIPTION
703 A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
710 H	CONCRETE CURB AND GUTTER (DESIGN B and DESIGN V)
711 A	CONCRETE APPROACH NOSE DETAIL
800 J	CHANNELIZERS (3 SHEETS)
811 I	PEDESTAL FOUNDATION (TRAFFIC CONTROL SIGNALS)
812 F	PEDESTAL AND PEDESTAL BASE (FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS)
812 L	POLE FOUNDATION (PA90 AND PA100)
812 A	SHIM AND WASHER (TRAFFIC CONTROL SIGNALS AND ROADWAY LIGHTING)

Only include the plates that apply to the project not the whole list.

STANDARD PLATES

Sometimes there will be additional standard plates listed such as in lighting, signals, TMS, etc..

When this happens you have two options.

1. Add a note at the bottom referencing the other location for standard plate reference. If this is the case that location must include a standard plate table with approval note and most recent letter.
2. If in those locations no letter is included then you do not note their location but rather make sure those plates are included in the primary standard plate table.

8318C	GUARDRAIL ANCHORAGE PLATE FOR BRIDGES AND BCT'S
8350A	THRIE BEAM ANCHORAGE PLATE
8352A	THRIE BEAM WEDGE PLATE FOR SINGLE SLOPE BARRIER
8360A	GUARDRAIL POST LENGTH MARKING

NOTE:
FOR ADDITIONAL STANDARD PLATES, SEE SHEET SS2 AND SZ1.

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

STANDARD PLATES

PLATE NO.	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE (5 SHEETS)
3006G	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
3022C	PRECAST CONCRETE SAFETY APRON (3 SHEETS)
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
3124B	METAL APRON CONNECTION
3128H	METAL SAFETY APRON & GRATE (2 SHEETS)
4005M	MANHOLE OR CATCH BASIN TYPE A & B CONE SECTIONS PRECAST - DESIGN F
4006L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS C AND H
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) * CASTING NO. 715 AND 716
4132F	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 805
4143E	STOOL GRATE & CONCRETE FRAME (MEDIAN DRAINS) - CASTING NO. 731
4154B	CATCH BASIN GRATE CASTING - CASTING NO. 816
4160J	MANHOLE OR CATCH BASIN STEP
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B and DESIGN V)
7113A	CONCRETE APPROACH NOSE DETAIL
8000J	CHANNELIZERS
8150C	INSTALLATION OF CULVERT MARKERS
8308B	REINFORCED CONCRETE MEDIUM BARRIER TYPE F (NON-GLARE SCREEN TYPE) DESIGN 8308 (3 SHEETS)
8318C	GUARDRAIL ANCHORAGE PLATE FOR BRIDGES AND BCT'S
8350A	THRIE BEAM ANCHORAGE PLATE
8352A	THRIE BEAM WEDGE PLATE FOR SINGLE SLOPE BARRIER
8360A	GUARDRAIL POST LENGTH MARKING

NOTE:
FOR ADDITIONAL STANDARD PLATES, SEE SHEET SS2 AND SZ1.

SCN - PROJECT NUMBER(S)

The project number(s) should be shown in the bottom right corner of the plan sheet. It should include the (TH #) but not the legislative number.

- When there are multiple project numbers as a minimum the PRIME SP number should be shown. It is optional to show all of the SP numbers. The main thing is to be consistent.
- ALL State Aid project numbers must also be shown on every sheet in the bottom right corner.



SAP 163-275-020
SAP 163-290-012
SAP 027-620-016

SOILS & CONSTRUCTION NOTES AND STANDARD PLATES

N. 43348 DATE 12/06/17 STATE PROJ. NO. 2706-237 (T.H. 7) SHEET NO. 8 OF 133 SHEETS

SCN - SHEET LABEL

The sheet label should be shown in the bottom right corner of the plan sheet. Above the SP # and SHEET number.

PROJECT NO. 2706-231 SHEET NO. 8 OF 153 SHEETS DATE 12/06/17 STATE PROJ. NO. 2706-231 (T.H. 7) SHEET NO. 8 OF 153 SHEETS	<p>SOILS AND CONSTRUCTION NOTES</p> <ol style="list-style-type: none"> 1. STAY AWAY FROM AND REMOVE FROM AREAS TO BE EXCAVATED BY CONSTRUCTION AND AVOID AS MUCH AS POSSIBLE EXCAVATION OF AREAS TO BE EXCAVATED BY CONSTRUCTION. 2. IF ANY AREAS TO BE EXCAVATED ARE FOUND TO BE CONTAMINATED BY OIL, FUEL, GREASE, OR OTHER HAZARDOUS MATERIALS, NOTIFY THE PROJECT ENGINEER IMMEDIATELY AND AVOID EXCAVATION OF SUCH AREAS UNTIL THE CONTAMINATION HAS BEEN REMOVED AND THE AREAS HAVE BEEN RESTORED TO THEIR ORIGINAL CONDITION. 3. TO ANY EXISTING EXISTING EXCAVATIONS AND NON-CONFORMING SOIL EXCAVATIONS, PROVIDE A LEAD LEVEL TO THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 4. BEFORE COMMENCING NEW EXCAVATION WORK TO ANY EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION, CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 5. BEFORE COMMENCING NEW EXCAVATION WORK TO ANY EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION, CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 6. BEFORE COMMENCING NEW EXCAVATION WORK TO ANY EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION, CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 7. PROVIDE FOR 12" (12") TYPING WHEN CHANGING SUBJECT DEPTH. 8. AS A PRECAUTIONARY MEASURE FROM A SOIL EXCAVATION, EXCAVATION MUST BE MADE TO THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 9. PROVIDE A SOIL CUT WHEN PLACING NEW PAVEMENT NEXT TO EXISTING PAVEMENT TO ENSURE A UNIFORM JOINT. 10. REMOVE AND RE-IMPORT ANY EXISTING BASE THAT IS EXPOSED AFTER MILLING OR REPAIRING THE EXISTING PAVEMENT. REMOVE THIS BASE FIRST OF ALL THEN THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. CONTRACT THE 1:20 (1:20) FINISH GRADE FOR THE EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 11. OBTAIN PERMISSION FROM THE OWNER BEFORE PLACING NEW PAVEMENT TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 12. PROVIDE EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 13. PROVIDE EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 14. JOINT MATERIAL SHALL BE USED ON EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 15. THE CONTRACTOR IS ADVISED THAT THERE MAY BE FIRM WHEN PLACING AND COMPACTING NEW EXISTING PAVEMENT TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 16. AFTER MILLING THE PAVEMENT TO THE REQUIRED DEPTH AND PRIOR TO OVERLAYING, AIR BLAST AND DETERMINED EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 17. OWNER IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DEPTH, FOR ALL EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 18. ALL EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 19. ALL EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 20. ALL EXISTING EXCAVATION TO BE EXCAVATED TO PREVENT AN ADEQUATE LEAD EXCAVATION. 	<p>THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY TO THIS PROJECT</p> <p>STANDARD PLATES</p> <table border="1"> <thead> <tr> <th>PLATE NO.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1001</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1002</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1003</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1004</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1005</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1006</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1007</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1008</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1009</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1010</td><td>PROPOSED CONCRET PAVEMENT SHEET</td></tr> <tr><td>1011</td><td>PROPOSED CONCRET PAVEMENT 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DESCRIPTION	1001	PROPOSED CONCRET PAVEMENT SHEET	1002	PROPOSED CONCRET PAVEMENT SHEET	1003	PROPOSED CONCRET PAVEMENT SHEET	1004	PROPOSED CONCRET PAVEMENT SHEET	1005	PROPOSED CONCRET PAVEMENT SHEET	1006	PROPOSED CONCRET PAVEMENT SHEET	1007	PROPOSED CONCRET PAVEMENT SHEET	1008	PROPOSED CONCRET PAVEMENT SHEET	1009	PROPOSED CONCRET PAVEMENT SHEET	1010	PROPOSED CONCRET PAVEMENT SHEET	1011	PROPOSED CONCRET PAVEMENT SHEET	1012	PROPOSED CONCRET PAVEMENT SHEET	1013	PROPOSED CONCRET PAVEMENT SHEET	1014	PROPOSED CONCRET PAVEMENT SHEET	1015	PROPOSED CONCRET PAVEMENT SHEET	1016	PROPOSED CONCRET PAVEMENT SHEET	1017	PROPOSED CONCRET PAVEMENT SHEET	1018	PROPOSED CONCRET PAVEMENT SHEET	1019	PROPOSED CONCRET PAVEMENT SHEET	1020	PROPOSED CONCRET PAVEMENT SHEET	1021	PROPOSED CONCRET PAVEMENT SHEET	1022	PROPOSED CONCRET PAVEMENT SHEET	1023	PROPOSED CONCRET PAVEMENT SHEET	1024	PROPOSED CONCRET PAVEMENT SHEET	1025	PROPOSED CONCRET PAVEMENT SHEET	1026	PROPOSED CONCRET PAVEMENT SHEET	1027	PROPOSED CONCRET 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SAP 163-275-020
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SOILS & CONSTRUCTION NOTES AND STANDARD PLATES

SCN - SHEET SIGNATURE

The soils and construction note sheet must be signed. This is typically located in the bottom center of the sheet just left of the SP #.

SOILS AND CONSTRUCTION NOTES

GRADING

SELECT GRANULAR EMBANKMENT MODIFIED JOY MUST MEET THE REQUIREMENTS OF M9007 SPECIFICATION 3149, EXCEPT THAT A MAXIMUM OF 20% PASSING THE #200 SIEVE IS ALLOWED.

ALL TYPES OF EXCAVATION AND EMBANKMENT QUANTITIES SHOWN IN THE PLAN ARE DETERMINED BY THE TOTAL NEEDS OF THE PROJECT. NO SHRINKAGE FACTORS FOR EMBANKMENT CONSTRUCTION HAVE BEEN APPLIED TO EXCAVATION OR EMBANKMENT ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND APPLY SHRINKAGE FACTORS TO ALL EXCAVATED AND EMBANKMENT MATERIALS.

UNSATURATED SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE ABOVE DEFINED CATEGORIES. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.

SUBCUT DEPTHS ARE MEASURED FROM THE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.

BOTTOM OF ALL SUBJECTS MUST BE SHAPED AND COMPACTED BY THE QUALITY COMPACTION METHOD WITH A MINIMUM OF 4 PASSES BY AN APPROVED ROLLER. (INCIDENTAL)

COMPACTION OF SELECT GRANULAR EMBANKMENT MOD. JOY AND AGGREGATE BASE SHALL BE OBTAINED BY THE "PENETRATION INDEX METHOD" (PIM) METHOD OR COMPACTION OF SELECT GRANULAR SOILS, AGGREGATE SURFACING, AND AGGREGATE BEDDING WILL BE BY QUALITY COMPACTION.

EXCAVATION LIMIT LINES AS SHOWN ON THE TYPICAL SECTIONS, PLANNED CONSTRUCTION, CROSS SECTIONS AND DETAILS IN THIS PLAN ARE FOR THE COMPLETION OF PAY QUANTITIES, TEMPORARY AND INTERMEDIATE EXCAVATION LIMITS AND SLOPES ARE TO BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION, DEPENDING ON SOIL PROPERTIES AND SAFETY FACTORS. ADDITIONAL EXCAVATION AND MATERIALS BEYOND THE LIMITS SHOWN IN THE PLAN MUST BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY WITH NO DIRECT PAYMENT.

THE CONTRACTOR SHALL NOT STORE ANY ROCK OR TOPSOIL OUTSIDE THE PLANNED CONSTRUCTION LIMITS UNLESS APPROVED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT WHICH WERE OUTSIDE THE CONSTRUCTION LIMITS SHOWN IN PLAN VIEW, SHALL BE RESTORED, AS APPROVED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE. (2206)

THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN WETLANDS AREAS, THIS INCLUDES EQUIPMENT, WORKING, PLACING, OR STOCKPILING MATERIALS, OR IMPACTING THE WETLANDS IN ANY OTHER WAY.

BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR REUSE IN CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE RIGHT-OF-WAY AT AN APPROVED DISPOSAL SITE.

SOIL BORING INFORMATION IS AVAILABLE FOR REVIEW UPON REQUEST AT THE M9007 MATERIALS OFFICE, 1023 MICHAEL AVENUE, DULUTH MN 55812.

EXISTING TOPSOIL / SLOPE DRESSING

ANY REFERENCE TO TOPSOIL IN THE PLAN OR SPECIAL PROVISIONS WILL PERTAIN TO THE UPPER 4.0" (LOWER) OF NATURAL UNDISTURBED SOIL. THIS MATERIAL SHALL BE FOR AS-SLOPE DRESSING, STRIP AND STOCKPILE THE EXISTING TOPSOIL FROM ALL AREAS DISTURBED BY CONSTRUCTION FOR PLACEMENT AS SLOPE DRESSING ON CONSTRUCTION SLOPES.

CONSTRUCTION SLOPES MUST BE COVERED WITH 4.0" OF SLOPE DRESSING, IF THERE IS INSUFFICIENT TOPSOIL AVAILABLE ON THE PROJECT, PEAT AND OTHER ORGANIC SOILS FREE FROM WOOD AND DEBRIS OR 24" (LOWER) SOILS AS SPECIFIED BY THE SOILS PROFILE SECTION OF THE M9007 STANDARD AND BASE MANUALLY MAY BE CONSIDERED AS SLOPE DRESSING IF APPROVED BY THE ENGINEER.

THIS SLOPE DRESSING IS INCLUDED AS A PORTION OF THE TOTAL OF THE COMMON EMBANKMENT (CV) QUANTITY.

BITUMINOUS AND AGGREGATE

BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED IN LAYERS OF THE THICKNESS SPECIFIED IN THE CONSTRUCTION DETAILS AND TYPICALS.

BITUMINOUS MATERIAL FOR TACK COAT PER SPEC 2357 IS INCIDENTAL.

PLACE BITUMINOUS MATERIAL FOR SHOULDER TACK IN ACCORDANCE WITH PLAN DETAILS AT THE APPLICATION RATE OF 0.25 GALLONS PER SQUARE YARD. SHOULDER TACK FROM DOGS OF BITUMINOUS TO 2" PAST SHOULDER P/L DISTRIBUTION EQUIPMENT WILL NOT BE ALLOWED ON THE AGGREGATE FACE OR INGLEPES DURING THE APPLICATION PROCESS.

COMPACTION FOR AGGREGATE SHOULDERING, SELECT GRADING SOILS, & AGGREGATE BEDDING MUST BE BY THE QUALITY COMPACTION METHOD. COMPACTOR FOR ALL OTHER GRADING AND GRANULARS MUST BE BY THE PENETRATION INDEX METHOD.

CULVERTS AND DRAINAGE

FOR CULVERT EXTENSION, CONTRACTOR MUST VERIFY JOINT STYLE, TYPE, SHAPE, AND SIZE BEFORE ORDERING PIPE. CONTRACTOR MUST VERIFY APPROPRIATE END SECTIONS ARE UTILIZED TO MATCH EXISTING PIPE.

FOR SATURATED SOILS IN CULVERT TRENCHES, THE CONTRACTOR MAY SUBSTITUTE COARSE AGGREGATE BEDDING FOR FINE AGGREGATE BEDDING AT NO ADDITIONAL COST.

CENTERLINE PIPE ELEVATIONS, AS SHOWN IN PLAN, ARE TO END OF APRON. CENTERLINE INLET & OUTLET PIPE ELEVATIONS ARE TO THE BOTTOM OF THE SLOPE DRESSING.

TIE ALL JOINTS ON CONCRETE PIPE, CULVERTS AND APRONS, FOR CULVERTS 36" AND LARGER THE JOINTS AT 4, 8, AND 12 O'CLOCK. (INCIDENTAL)

TEMPORARY TURF ESTABLISHMENT

THE CONTRACTOR SHALL PROVIDE TEMPORARY STABILIZATION ON ALL AREAS DISTURBED BY THE PLANNED CONSTRUCTION. FINE MESH MATERIAL, TYPE 1 GRID MESH OR SOIL FIBER TEE TYPE 110-10-20 AND DISK ANCHOR, TEMPORARY STABILIZATION MUST BE INITIATED WITHIN THE TIME FRAME INDICATED IN THE SWPPV NARRATIVE.

PAID FOR AS TURF ESTABLISHMENT LUMP SUM EXCEPT FOR SEDIMENT CONTROL, LOG TREE COMPOST.

PERMANENT TURF ESTABLISHMENT

ALL AREAS DISTURBED BY CONSTRUCTION WILL REQUIRE TURF ESTABLISHMENT.

PERMANENT TURF ESTABLISHMENT FINAL STABILIZATION MUST BE COMPLETED WITHIN THE TIME FRAME INDICATED IN THE SWPPV NARRATIVE.

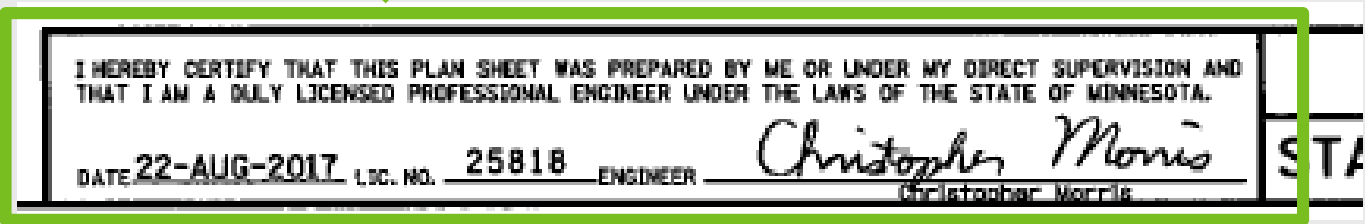
PERMANENT TURF ESTABLISHMENT WILL INCLUDE SOIL BED PREPARATION, SEED MIXTURE 33-361, FERTILIZER TYPE 4 (8-2-8) AND EROSION CONTROL, BLANKET CATEGORY 3N (NATURAL NETTING), PAID FOR AS TURF ESTABLISHMENT LUMP SUM.

ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT OR OPERATIONS THAT WERE NOT NECESSARY FOR THE PLANNED CONSTRUCTION MUST BE RESTORED AS INDICATED ABOVE, OR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

PAID FOR AS TURF ESTABLISHMENT LUMP SUM.

This will include the Design Engineers (same person who signed the plan title sheet). It will include....

- Printed name
- Signature
- License Number
- Date



SCN -SHEET SIGNATURE (Continued)

A different signature block will be used if these are signed by an Engineer different than the one who signed the title sheet. This will require the Board of AELSLAGID signature language.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: KJERSTI ANDERSON

LICENSE # 26458

DATE: 3/14/18

SIGNATURE: 

SCN - SHEET NUMBER

The sheet number is shown in the bottom right corner of the plan sheet.

SOILS AND CONSTRUCTION NOTES

GRADING
SELECT GRANULAR EMBANKMENT MODIFIED 10% MUST MEET THE REQUIREMENTS OF M-807 SPECIFICATION 3149, EXCEPT THAT A MAXIMUM OF 10% PASSING THE #200 SIEVE IS ALLOWED.

ALL TYPES OF EXCAVATION AND EMBANKMENT QUANTITIES SHOWN IN THE PLAN ARE DETERMINED BY THE TOTAL NEEDS OF THE PROJECT. NO SURCHARGE FACTORS FOR EMBANKMENT CONSTRUCTION HAVE BEEN APPLIED TO EXCAVATION OR EMBANKMENT ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND APPLY SHRINKAGE FACTORS TO ALL EXCAVATED AND EMBANKMENT MATERIALS.

UNSATURABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE ABOVE DEFINED CATEGORIES. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.

SUBCUT DEPTHS ARE MEASURED FROM THE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.

BOTTOM OF ALL SUBCUTS MUST BE SHAPED AND COMPACTED BY THE QUALITY COMPACTION METHOD WITH A MINIMUM OF 4 PASSES BY AN APPROVED ROLLER (INCIDENTAL).

COMPACTION OF SELECT GRANULAR EMBANKMENT 100, 10% AND AGGREGATE BASE SHALL BE OBTAINED BY THE PENETRATION INDEX METHOD (PIM) METHOD OF COMPACTION. COMPACTION OF SELECT GRADING SOILS, AGGREGATE SURFACING, AND AGGREGATE BEDDING WILL BE BY QUALITY COMPACTION.

EXCAVATION LIMIT LINES AS SHOWN ON THE TYPICAL SECTIONS, PLANNED CONSTRUCTION CROSS SECTIONS AND DETAILS IN THIS PLAN ARE FOR THE COMPUTATION OF PAY QUANTITIES. TEMPORARY AND INTERMEDIATE EXCAVATION LIMITS AND SLOPES ARE TO BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION, DEPENDING ON SOIL PROPERTIES AND SAFETY FACTORS. ADDITIONAL EXCAVATION AND BACKFILL BEYOND THE LIMITS SHOWN IN THE PLAN MUST BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY WITH NO DIRECT PAYMENT.

THE CONTRACTOR SHALL NOT STORE ANY ROCK OR TOPSOIL OUTSIDE THE PLANNED CONSTRUCTION LIMITS UNLESS APPROVED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT WHICH WERE OUTSIDE THE CONSTRUCTION LIMITS (SHOWN IN PLAN VIEW), SHALL BE RESTORED, AS APPROVED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE (250%).

THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN WETLANDS AREAS. THIS INCLUDES EQUIPMENT WORKING, PLACING OR STOCKPILING MATERIALS, OR IMPACTING THE WETLANDS IN ANY OTHER WAY.

BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR ROADWAY CONSTRUCTION SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY AT AN APPROVED DISPOSAL SITE.

SOIL BORING INFORMATION IS AVAILABLE FOR REVIEW UPON REQUEST AT THE M-807 MATERIALS OFFICE, 1123 MESABA AVENUE, DULUTH, MN 55811.

EXISTING TOPSOIL / SLOPE DRESSING
ANY REFERENCE TO TOPSOIL IN THE PLAN OR SPECIAL PROVISIONS WILL PERTAIN TO THE UPPER 4.0" (AVERAGE) OF NATURAL (UNLAYERED) SOIL. THIS MATERIAL MUST BE USED AS SLOPE DRESSING. THE UPPER 4.0" (AVERAGE) OF NATURAL SOIL IS CONSIDERED USABLE FOR REUSE AS SLOPE DRESSING. STRIP AND STOCKPILE THE EXISTING TOPSOIL FROM ALL AREAS DISTURBED BY CONSTRUCTION FOR PLACEMENT AS SLOPE DRESSING ON CONSTRUCTION SLOPES.

CONSTRUCTION SLOPES MUST BE COVERED WITH 4.0" OF SLOPE DRESSING, IF THERE IS INSUFFICIENT TOPSOIL AVAILABLE ON THE PROJECT. PEAT AND OTHER ORGANIC SOILS FREE FROM WOOD AND DEBRIS OR "A" HORIZON SOILS HAS DEFINED IN THE SOILS PROFILE SECTION OF THE M-807 GRADING AND BASE MANUAL MAY BE CONSIDERED AS SLOPE DRESSING IF APPROVED BY THE ENGINEER.

THIS SLOPE DRESSING IS INCLUDED AS A PORTION OF THE TOTAL OF THE COMMON EMBANKMENT (CV) QUANTITY.

BITUMINOUS AND AGGREGATE
BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED IN LAYERS OF THE THICKNESS SPECIFIED IN THE CONSTRUCTION DETAILS AND TYPICALS.

BITUMINOUS MATERIAL FOR TACK COAT PER SPEC 2357 IS INCIDENTAL.

PLACE BITUMINOUS MATERIAL FOR SHOULDER TACK IN ACCORDANCE WITH PLAN DETAILS AT THE APPLICATION RATE OF 0.18 GALLONS PER SQUARE YARD. SHOULDER TACK FROM EDGE OF BITUMINOUS TO 2' FIRST SHOULDER P.I. DISTRIBUTION EQUIPMENT WILL NOT BE ALLOWED ON THE AGGREGATE FACE OR INDIPOLE DURING THE APPLICATION PROCESS.

COMPACTION FOR AGGREGATE SHOULDERING, SELECT GRADING SOILS, & AGGREGATE BEDDING MUST BE BY THE QUALITY COMPACTION METHOD. COMPACTION FOR ALL OTHER GRADING AND GRANULAR MUST BE BY THE PENETRATION INDEX METHOD.

CULVERTS AND DRAINAGE
FOR CULVERT EXTENSIONS CONTRACTOR MUST VERIFY JOINT STYLE, TYPE, SHAPE, AND SIZE BEFORE ORDERING PIPE. CONTRACTOR MUST VERIFY APPROPRIATE END SECTIONS ARE UTILIZED TO MATCH EXISTING PIPE.

FOR SATURATED SOILS IN CULVERT TRENCHES, THE CONTRACTOR MAY SUBSTITUTE COARSE AGGREGATE BEDDING FOR FINE AGGREGATE BEDDING AT NO ADDITIONAL COST.

CENTERLINE PIPE ELEVATIONS, AS SHOWN IN PLAN, ARE TO END OF APRON. CENTERLINE INLET & OUTLET PIPE ELEVATIONS ARE TO THE BOTTOM OF THE SLOPE DRESSING.

USE ALL JOINTS ON CONCRETE PIPE CULVERTS AND APRONS. FOR CULVERTS 36" AND LARGER TIE JOINTS AT 4, 6, AND 12 O'CLOCK (INCIDENTAL).

TEMPORARY TURF ESTABLISHMENT
THE CONTRACTOR SHALL PROVIDE TEMPORARY STABILIZATION ON ALL AREAS DISTURBED BY THE PLANNED CONSTRUCTION. USE MULCH MATERIAL TYPE 1, SEED MIXTURE 21-111, FERTILIZER TYPE 1 (10-10-20), AND COIR ANCHOR. TEMPORARY STABILIZATION MUST BE INITIATED WITHIN THE TIME FRAME INDICATED IN THE SMPPV NARRATIVE.

PAID FOR AS TURF ESTABLISHMENT LUMP SUM EXCEPT FOR SEDIMENT CONTROL LOG TYPE COMPOST.

PERMANENT TURF ESTABLISHMENT
ALL AREAS DISTURBED BY CONSTRUCTION WILL REQUIRE TURF ESTABLISHMENT.

PERMANENT TURF ESTABLISHMENT FINAL STABILIZATION MUST BE COMPLETED WITHIN THE TIME FRAME INDICATED IN THE SMPPV NARRATIVE.

PERMANENT TURF ESTABLISHMENT WILL INCLUDE SOIL BED PREPARATION, SEED MIXTURE 33-364, FERTILIZER TYPE 4 (08-2-8) AND EROSION CONTROL BLANKET CATEGORY 3N (NATURAL NETTING). PAID FOR AS TURF ESTABLISHMENT LUMP SUM.

ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT OR OPERATIONS THAT WERE NOT NECESSARY FOR THE PLANNED CONSTRUCTION MUST BE RESTORED AS INDICATED ABOVE OR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

PAID FOR AS TURF ESTABLISHMENT LUMP SUM.

STATE PROJ. NO. 6917-144 (TH 53) SHEET NO. 4 OF 59 SHEETS

SOILS AND CONSTRUCTION NOTES

STATE PROJ. NO. 6917-144 (TH 53) SHEET NO. 4 OF 59 SHEETS

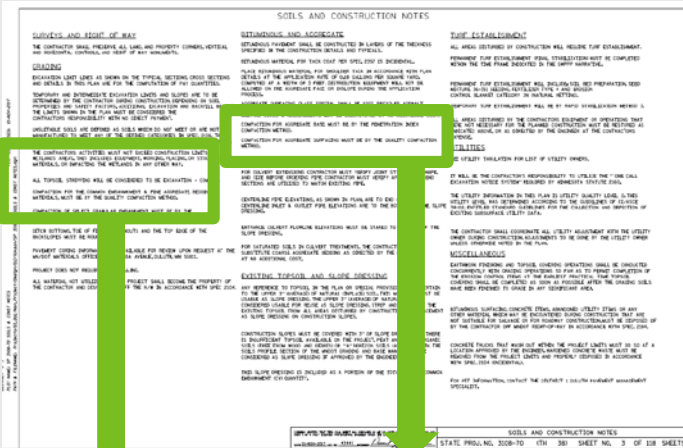
SOILS & CONSTRUCTION NOTES

The Soils & Construction notes are general in nature but should include information from the MDR (Soils letter) and other pertinent information not shown elsewhere in the plan.

SOILS AND CONSTRUCTION NOTES		
<p>SURVEYS AND RIGHT OF WAY</p> <p>THE CONTRACTOR SHALL PRESERVE ALL LAND AND PROPERTY CORNERS, VERTICAL AND HORIZONTAL CONTROLS, AND RIGHT OF WAY MONUMENTS.</p> <p>GRADING</p> <p>EXCAVATION LIMIT LINES AS SHOWN ON THE TYPICAL SECTIONS, CROSS SECTIONS AND DETAILS IN THIS PLAN ARE FOR THE COMPUTATION OF PAY QUANTITIES.</p> <p>TEMPORARY AND INTERMEDIATE EXCAVATION LIMITS AND SLOPES ARE TO BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION, DEPENDING ON SOIL PROPERTIES AND SAFETY FACTORS. ADDITIONAL EXCAVATION AND BACKFILL BEYOND THE LIMITS SHOWN IN THE PLAN MUST BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY WITH NO DIRECT PAYMENT.</p> <p>UNSUITABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE DEFINED CATEGORIES IN SPEC. 2106. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.</p> <p>THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN WETLANDS AREAS. THIS INCLUDES EQUIPMENT WORKING, PLACING, OR STOCKPILING MATERIALS, OR IMPACTING THE WETLANDS IN ANY OTHER WAY.</p> <p>ALL TOPSOIL STRIPPING WILL BE CONSIDERED TO BE EXCAVATION - COMMON.</p> <p>COMPACTION FOR THE COMMON EMBANKMENT & FINE AGGREGATE BEDDING MATERIALS, MUST BE BY THE QUALITY COMPACTION METHOD.</p> <p>COMPACTION OF SELECT GRANULAR EMBANKMENT MUST BE BY THE PENETRATION INDEX METHOD.</p> <p>DITCH BOTTOMS, TOE OF FILL, CUT ROUNDS AND THE TOP EDGE OF THE BACKSLOPES MUST BE ROUNDED.</p> <p>PAVEMENT CORING INFORMATION IS AVAILABLE FOR REVIEW UPON REQUEST AT THE MN/DOT MATERIALS OFFICE, 1123 MESABA AVENUE, DULUTH, MN 55811.</p> <p>PROJECT DOES NOT REQUIRE TEST ROLLING.</p> <p>ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC. 2104.</p>	<p>BITUMINOUS AND AGGREGATE</p> <p>BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED IN LAYERS OF THE THICKNESS SPECIFIED IN THE CONSTRUCTION DETAILS AND TYPICALS.</p> <p>BITUMINOUS MATERIAL FOR TACK COAT PER SPEC. 2357 IS INCIDENTAL.</p> <p>PLACE BITUMINOUS MATERIAL FOR SHOULDER TACK IN ACCORDANCE WITH PLAN DETAILS AT THE APPLICATION RATE OF 0.8 GALLONS PER SQUARE YARD, COMPUTED AT A WIDTH OF 3 FEET. DISTRIBUTION EQUIPMENT WILL NOT BE ALLOWED ON THE AGGREGATE FACE OR INSLOPE DURING THE APPLICATION PROCESS.</p> <p>AGGREGATE SURFACING CLASS SPECIAL SHALL BE 100% RECYCLED ASPHALT PAVEMENT MEETING THE REQUIREMENTS OF MNDOT 3138.2.0. VIRGIN MATERIAL MEETING CLASS 6 REQUIREMENTS MAY BE SUBSTITUTED AT NO ADDITIONAL COST.</p> <p>COMPACTION FOR AGGREGATE BASE MUST BE BY THE PENETRATION INDEX COMPACTION METHOD.</p> <p>COMPACTION FOR AGGREGATE SURFACING MUST BE BY THE QUALITY COMPACTION METHOD.</p> <p>CULVERTS AND DRAINAGE</p> <p>FOR CULVERT EXTENSIONS CONTRACTOR MUST VERIFY JOINT STYLE, TYPE, SHAPE, AND SIZE BEFORE ORDERING PIPE. CONTRACTOR MUST VERIFY APPROPRIATE END SECTIONS ARE UTILIZED TO MATCH EXISTING PIPE.</p> <p>CENTERLINE PIPE ELEVATIONS, AS SHOWN IN PLAN, ARE TO END OF APRON. CENTERLINE INLET & OUTLET PIPE ELEVATIONS ARE TO THE BOTTOM OF THE SLOPE DRESSING.</p> <p>ENTRANCE CULVERT FLOWLINE ELEVATIONS MUST BE STAKED TO THE TOP OF THE SLOPE DRESSING.</p> <p>FOR SATURATED SOILS IN CULVERT TREATMENTS, THE CONTRACTOR MAY SUBSTITUTE COARSE AGGREGATE BEDDING AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.</p> <p>EXISTING TOPSOIL AND SLOPE DRESSING</p> <p>ANY REFERENCE TO TOPSOIL IN THE PLAN OR SPECIAL PROVISIONS WILL PERTAIN TO THE UPPER 3" (AVERAGE) OF NATURAL (UNPLACED) SOIL. THIS MATERIAL MUST BE USABLE AS SLOPE DRESSING. THE UPPER 3" (AVERAGE) OF NATURAL SOIL IS CONSIDERED USABLE FOR REUSE AS SLOPE DRESSING, STRIP AND STOCKPILE THE EXISTING TOPSOIL FROM ALL AREAS DISTURBED BY CONSTRUCTION FOR PLACEMENT AS SLOPE DRESSING ON CONSTRUCTION SLOPES.</p> <p>CONSTRUCTION SLOPES MUST BE COVERED WITH 3" OF SLOPE DRESSING, IF THERE IS INSUFFICIENT TOPSOIL AVAILABLE ON THE PROJECT. PEAT AND OTHER ORGANIC SOILS (RISE FROM WOOD AND DEBRIS) OR "A" HORIZON SOILS (AS DEFINED IN THE SOILS PROFILE SECTION OF THE MNDOT GRADING AND BASE MANUAL) MAY BE CONSIDERED AS SLOPE DRESSING IF APPROVED BY THE ENGINEER.</p> <p>THIS SLOPE DRESSING IS INCLUDED AS A PORTION OF THE TOTAL OF THE COMMON EMBANKMENT (CV) QUANTITY.</p>	<p>TURF ESTABLISHMENT</p> <p>ALL AREAS DISTURBED BY CONSTRUCTION WILL REQUIRE TURF ESTABLISHMENT.</p> <p>PERMANENT TURF ESTABLISHMENT (FINAL STABILIZATION) MUST BE COMPLETED WITHIN THE TIME FRAME INDICATED IN THE SWPPP NARRATIVE.</p> <p>PERMANENT TURF ESTABLISHMENT WILL INCLUDE SOIL BED PREPARATION, SEED MIXTURE 36-311 SEEDING FERTILIZER TYPE 4 AND EROSION CONTROL BLANKET CATEGORY 3N (NATURAL NETTING).</p> <p>TEMPORARY TURF ESTABLISHMENT WILL BE BY RAPID STABILIZATION METHOD 3.</p> <p>ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT OR OPERATIONS THAT WERE NOT NECESSARY FOR THE PLANNED CONSTRUCTION MUST BE RESTORED AS INDICATED ABOVE, OR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.</p> <p>UTILITIES</p> <p>SEE UTILITY TABULATION FOR LIST OF UTILITY OWNERS.</p> <p>IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" REQUIRED BY MINNESOTA STATUTE 2164.</p> <p>THE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL 3. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CLASSIC 38-02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.</p> <p>THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENT WITH THE UTILITY OWNER DURING CONSTRUCTION. ADJUSTMENTS TO BE DONE BY THE UTILITY OWNER UNLESS OTHERWISE NOTED IN THE PLAN.</p> <p>MISCELLANEOUS</p> <p>EARTHWORK FINISHING AND TOPSOIL COVERING OPERATIONS SHALL BE CONDUCTED CONCURRENTLY WITH GRADING OPERATIONS SO FAR AS TO PERMIT COMPLETION OF THE EROSION CONTROL ITEMS AT THE EARLIEST PRACTICAL TIME. TOPSOIL COVERING SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER THE GRADING SOILS HAVE BEEN FINISHED TO GRADE IN ANY SIGNIFICANT AREA.</p> <p>BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR ROADWAY CONSTRUCTION MUST BE DISPOSED OF BY THE CONTRACTOR OFF MNDOT RIGHT-OF-WAY IN ACCORDANCE WITH SPEC. 2104.</p> <p>CONCRETE TRUCKS THAT WASH OUT WITHIN THE PROJECT LIMITS MUST DO SO AT A LOCATION APPROVED BY THE ENGINEER. HARDENED CONCRETE WASTE MUST BE REMOVED FROM THE PROJECT LIMITS AND PROPERLY DISPOSED IN ACCORDANCE WITH SPEC. 2104 (INCIDENTAL).</p> <p>FOR PIT INFORMATION, CONTACT THE DISTRICT 1 DULUTH PAVEMENT MANAGEMENT SPECIALIST.</p>
<p>PLATE NO. 3108-70 (TH 38) SHEET NO. 3 OF 118 SHEETS</p>		

SOILS & CONSTRUCTION NOTES

COMPACTION NOTES



Compaction of bituminous material will not be included in these notes but other material compaction may be.

COMPACTION FOR AGGREGATE BASE MUST BE BY THE PENETRATION INDEX COMPACTION METHOD.

COMPACTION FOR AGGREGATE SURFACING MUST BE BY THE QUALITY COMPACTION METHOD.

COMPACTION FOR THE COMMON EMBANKMENT & FINE AGGREGATE BEDDING MATERIALS, MUST BE BY THE QUALITY COMPACTION METHOD.

COMPACTION OF SELECT GRANULAR EMBANKMENT MUST BE BY THE PENETRATION INDEX METHOD.

SOILS & CONSTRUCTION NOTES

EXCESS MATERIAL NOTE

SOILS AND CONSTRUCTION NOTES

SURVEYS AND RIGHT OF WAY

THE CONTRACTOR SHALL PRESERVE ALL LAND AND PROPERTY CORNERS, VERTICAL AND HORIZONTAL CONTROLS, AND RIGHT OF WAY MONUMENTS.

GRADING

EXCAVATION LIMIT LINES AS SHOWN ON THE TYPICAL SECTIONS, CROSS SECTIONS AND DETAILS IN THIS PLAN ARE FOR THE COMPUTATION OF PAY QUANTITIES.

TEMPORARY AND INTERMEDIATE EXCAVATION LIMITS AND SLOPES ARE TO BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION BASED ON SOIL PROPERTIES AND SAFETY FACTORS. ADDITIONAL EXCAVATION AND BACKFILL BEYOND THE LIMITS SHOWN IN THE PLAN MUST BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY WITH NO DIRECT PAYMENT.

UNSATURABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE SPECIFIED CATEGORIES IN SPEC 2104. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.

THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN WETLANDS AREAS, THIS INCLUDES EQUIPMENT, WORKING, PLACING OR STOCKPILING MATERIALS, OR IMPACTING THE WETLANDS IN ANY OTHER WAY.

ALL TOPSOIL, STRIPPING WILL BE CONSIDERED TO BE EXCAVATION - COMMON. COMPACTON FOR THE COMMON EMBANKMENT & FINE AGGREGATE BEDDING MATERIALS, MUST BE BY THE QUALITY COMPACTON METHOD.

COMPACTON OF SELECT GRANULAR EMBANKMENT MUST BE BY THE PENETRATION INDEX METHOD.

ON TOP BOTTOMS, THE OF FILL CUT FINISHES AND THE TOP EDGE OF THE BACKFILLS MUST BE ROLLED.

PAYMENT CODING INFORMATION IS AVAILABLE FOR REVIEW UPON REQUEST AT THE PROJECT OFFICE.

PROJECT DOES NOT REQUIRE TEST ROLLING.

ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC 2104.

BITUMINOUS AND AGGREGATE

BITUMINOUS PAYMENT SHALL BE CONSTRUCTED IN LAYERS OF THE THICKNESS SPECIFIED IN THE CONSTRUCTION DETAILS AND TYPICALS.

BITUMINOUS MATERIAL FOR TACK COAT PER SPEC 2107 IS INCIDENTAL. PLAZE BITUMINOUS MATERIAL FOR SHOULDER TACK IN ACCORDANCE WITH PLAN DETAILS AT THE APPLICATION RATE OF GALLONS PER SQUARE YARD. COATED AT A WIDTH OF 3 FEET. DISTRIBUTION EQUIPMENT WILL NOT BE ALLOWED ON THE AGGREGATE FACE OR IN-LINE WITH THE APPLICATION PROCESS.

AGGREGATE SURFACING CLASS SPECIAL SHALL BE 100% RECYCLED ASPHALT PAVEMENT MIXTURES. THE REQUIREMENTS OF MOST 318.0.2.0. VIGORAN MATERIAL MIXTURE CLASS 4 REQUIREMENTS MAY BE SUBSTITUTED AT NO ADDITIONAL COST.

COMPACTON FOR AGGREGATE SHADE MUST BE BY THE PENETRATION INDEX COMPACTON METHOD.

COMPACTON FOR AGGREGATE SURFACING MUST BE BY THE QUALITY COMPACTON METHOD.

CULVERTS AND DRAINAGE

FOR CULVERTS EXTERIOR CONTRACTOR MUST VERIFY JOINT STYLE, PIPE DIME, AND SIZE BEFORE ORDERING PIPE. CONTRACTOR MUST VERIFY APPROPRIATE END SECTIONS ARE UTILIZED TO MATCH EXISTING PIPE.

CENTERLINE PIPE ELEVATIONS, AS SHOWN IN PLAN, ARE TO END OF APRON. CENTERLINE INLET & OUTLET PIPE ELEVATIONS ARE TO THE BOTTOM OF THE SLOPE DRESSING.

ENTRANCE COLLECTOR FLOORLINE ELEVATIONS MUST BE STATED TO THE TOP OF THE SLOPE DRESSING.

FOR SATURATED SOILS IN CULVERT TREATMENTS, THE CONTRACTOR MAY SUBSTITUTE COARSE AGGREGATE BEDDING AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.

EXISTING TOPSOIL AND SLOPE DRESSING

IN REFERENCE TO TOPSOIL IN THE PLAN OR SPECIAL PROVISIONS WILL PERTAIN TO THE UPPER 3" LAYER OF NATURAL UNLAYERED SOILS. THIS MATERIAL MUST BE TABLE AS SLOPE DRESSING. THE UPPER 3" LAYER OF NATURAL SOIL IS UNDESIRABLE FOR REUSE AS SLOPE DRESSING TOP AND STOCKPILE THE EXISTING TOPSOIL FROM ALL AREAS DISTURBED BY CONSTRUCTION FOR PLACEMENT AS SLOPE DRESSING ON CONSTRUCTION SLOPES.

CONSTRUCTION SLOPES MUST BE COVERED WITH 3" OF SLOPE DRESSING, IF THERE IS INSUFFICIENT TOPSOIL AVAILABLE ON THE PROJECT. PEAT AND OTHER ORGANIC SOILS (ASBESTOS FROM WOOD AND LIMBS) OR "M" HORIZON SOILS (AS DEFINED IN THE SOILS PROFILE SECTION OF THE SHOOT DRIVING AND BORE MANUAL) MAY BE CONSIDERED AS SLOPE DRESSING IF APPROVED BY THE ENGINEER.

THIS SLOPE DRESSING IS INCLUDED AS A PORTION OF THE TOTAL OF THE COMMON EMBANKMENT (CV) QUANTITY.

TURF ESTABLISHMENT

ALL AREAS DISTURBED BY CONSTRUCTION WILL REQUIRE TURF ESTABLISHMENT. PERMANENT TURF ESTABLISHMENT (FINAL STABILIZATION) MUST BE COMPLETED WITHIN THE TIME FRAME INDICATED IN THE SRRP NARRATIVE.

PERMANENT TURF ESTABLISHMENT WILL INCLUDE SOIL BED PREPARATION, SEED MIXTURE, SOIL GRADING, FERTILIZER TYPE 4 AND EROSION CONTROL BLANKET CATEGORY 3N NATURAL NETTING.

TEMPORARY TURF ESTABLISHMENT WILL BE BY RAPID STABILIZATION METHOD 3. ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT OR OPERATIONS THAT WERE NOT NECESSARY FOR THE PLANNED CONSTRUCTION MUST BE RESTORED AS INDICATED ABOVE, OR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

UTILITIES

SEE UTILITY TOLERANCE FOR LIST OF UTILITY OWNERS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "ONE CALL EXCAVATION NOTICE SYSTEM" REQUIRED BY WISCONSIN STATUTE 2104.

THE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL 3. THIS UTILITY LEVEL HAS DETERMINED ACCORDING TO THE GUIDELINES OF SERVICE SINCE ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENT WITH THE UTILITY OWNERS DURING CONSTRUCTION. ADJUSTMENTS TO BE DONE BY THE UTILITY OWNER UNLESS OTHERWISE NOTED IN THE PLAN.

MISCELLANEOUS

EARTHWORK FINISHING AND TOPSOIL COVERING OPERATIONS SHALL BE CONDUCTED CONCURRENTLY WITH GRADING OPERATIONS SO FAR AS TO PERMIT COMPLETION OF THE EROSION CONTROL ITEMS AT THE EARLIEST PRACTICAL TIME. TOPSOIL COVERING SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER THE GRADING SOILS HAVE BEEN FINISHED TO GRADE IN ANY SIGNIFICANT AREA.

BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR ROADWAY CONSTRUCTION MUST BE DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY IN ACCORDANCE WITH SPEC 2104.

CONCRETE TRUCKS THAT WASH OUT WITHIN THE PROJECT LIMITS MUST GO TO A LOCATION APPROVED BY THE ENGINEER. WASHED CONCRETE WASTE MUST BE REMOVED FROM THE PROJECT LIMITS AND PROPERLY DISPOSED IN ACCORDANCE WITH SPEC 2104 (INCIDENTAL).

FOR PIT INFORMATION, CONTACT THE DISTRICT 1 DULUTH PAVEMENT MANAGEMENT SPECIALIST.

STATE PROJ. NO. 3108-70 (TH 38) SHEET NO. 3 OF 118 SHEETS

Excess material note should be phrased as **“ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC 2104.”**

ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC 2104.

SOILS & CONSTRUCTION NOTES

TACK COAT NOTE

BITUMINOUS MATERIAL FOR TACK COAT PER SPEC. 2357 IS INCIDENTAL.

SOILS AND CONSTRUCTION NOTES

SURVEYS AND RIGHT OF WAY

THE CONTRACTOR SHALL PRESERVE ALL LAND AND PROPERTY CORNERS, VERTICES AND HORIZONTAL CONTROLS, AND RIGHT OF WAY MONUMENTS.

GRADING

EXCAVATION LIMIT LINES AS SHOWN ON THE TYPICAL SECTIONS, CROSS SECTIONS AND DETAILS IN THIS PLAN ARE FOR THE COMPUTATION OF PAY QUANTITIES.

TEMPORARY AND INTERMEDIATE EXCAVATION LIMITS AND SLOPES ARE TO BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION DEPENDING ON SOIL PROPERTIES AND SAFETY FACTORS. ADDITIONAL EXCAVATION AND BACKFILL BEYOND THE LIMITS SHOWN IN THE PLAN MUST BE CONSIDERED THE CONTRACTOR'S RESPONSIBILITY WITH NO DIRECT PAYMENT.

UNSATURABLE SOILS ARE DEFINED AS SOILS WHICH DO NOT MEET OR ARE NOT MANUFACTURED TO MEET ANY OF THE DEFINED CATEGORIES IN SPEC. 2106. THESE SOILS ARE THEREFORE NOT REUSABLE AS STRUCTURAL BACKFILL OR EMBANKMENT.

THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN WETLANDS AREAS. THIS INCLUDES EQUIPMENT WORKING, PLACING OR STOCKPILING MATERIALS, OR IMPACTING THE WETLANDS IN ANY OTHER WAY.

ALL TOPSOIL STRIPPING WILL BE CONSIDERED TO BE EXCAVATION - COMMON.

COMPACTION FOR THE COMMON EMBANKMENT & FINE AGGREGATE BEDDING MATERIALS, MUST BE BY THE QUALITY COMPACTION METHOD.

COMPACTION OF SELECT GRANULAR EMBANKMENT MUST BE BY THE PENETRATION INDEX METHOD.

OUTER BOTTOMS, THE OF FILL CUT RIMMETS AND THE TOP EDGE OF THE BACKSLOPES MUST BE ROUNDED.

PAVEMENT CORDING INFORMATION IS AVAILABLE FOR REVIEW UPON REQUEST AT THE WADNOT MATERIALS OFFICE, 1223 MESABA AVENUE, DULUTH, MN 55811.

PROJECT DOES NOT REQUIRE TEST ROLLING.

ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC. 2104.

BITUMINOUS AND AGGREGATE

BITUMINOUS BOUNDING SHALL BE CONSTRUCTION IN LAYERS OF THE THICKNESS

BITUMINOUS MATERIAL FOR TACK COAT PER SPEC. 2357 IS INCIDENTAL.

DETAILS AT THE APPLICATION RATE OF 0.18 GALLONS PER SQUARE YARD, CONSISTENT AT A WIDTH OF 1 FEET. DISTRIBUTION EQUIPMENT WILL NOT BE ALLOWED ON THE AGGREGATE FACE OR ENDSLOPE DURING THE APPLICATION PROCESS.

AGGREGATE SURFACING CLASS SPECIAL SHALL BE 100% RECYCLED ASPHALT PAVEMENT MEETING THE REQUIREMENTS OF MNDOT 3138.2.0. VIRGIN MATERIAL MEETING CLASS 6 REQUIREMENTS MAY BE SUBSTITUTED AT NO ADDITIONAL COST.

COMPACTION FOR AGGREGATE BASE MUST BE BY THE PENETRATION INDEX COMPACTION METHOD.

COMPACTION FOR AGGREGATE SURFACING MUST BE BY THE QUALITY COMPACTION METHOD.

CULVERTS AND DRAINAGE

FOR CULVERT EXTENSIONS CONTRACTOR MUST VERIFY JOINT STYLE, TYPE, SHAPE, AND SIZE BEFORE ORDERING PIPE. CONTRACTOR MUST VERIFY APPROPRIATE END SECTIONS ARE UTILIZED TO MATCH EXISTING PIPE.

CENTERLINE PIPE ELEVATIONS, AS SHOWN IN PLAN, ARE TO END OF APRON. CENTERLINE INLET & OUTLET PIPE ELEVATIONS ARE TO THE BOTTOM OF THE SLOPE DRESSING.

ENTRANCE CULVERT FLOWLINE ELEVATIONS MUST BE STAKED TO THE TOP OF THE SLOPE DRESSING.

FOR SATURATED SOILS IN CULVERT TREATMENTS, THE CONTRACTOR MAY SUBSTITUTE COARSE AGGREGATE BEDDING AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.

EXISTING TOPSOIL AND SLOPE DRESSING

ANY REFERENCE TO TOPSOIL IN THE PLAN OR SPECIAL PROVISIONS WILL PERTAIN TO THE UPPER 3" (AVERAGE OF NATURAL UNPLACED SOIL). THIS MATERIAL MUST BE USABLE AS SLOPE DRESSING. THE UPPER 3" (AVERAGE OF NATURAL SOIL IS CONSIDERED USABLE FOR REUSE AS SLOPE DRESSING. STRIP AND STOCKPILE THE EXISTING TOPSOIL FROM ALL AREAS DISTURBED BY CONSTRUCTION FOR PLACEMENT AS SLOPE DRESSING ON CONSTRUCTION SLOPES.

CONSTRUCTION SLOPES MUST BE COVERED WITH 3" OF SLOPE DRESSING, IF THERE IS INSUFFICIENT TOPSOIL AVAILABLE ON THE PROJECT. PEAT AND OTHER ORGANIC SOILS (FREE FROM WOOD AND DEBRIS) OR "A" HORIZON SOILS (AS DEFINED IN THE SOILS PROFILE SECTION OF THE WADNOT GRADING AND BASE MANUAL) MAY BE CONSIDERED AS SLOPE DRESSING IF APPROVED BY THE ENGINEER.

THIS SLOPE DRESSING IS INCLUDED AS A PORTION OF THE TOTAL OF THE COMMON EMBANKMENT (C/M) QUANTITY.

TURF ESTABLISHMENT

ALL AREAS DISTURBED BY CONSTRUCTION WILL REQUIRE TURF ESTABLISHMENT.

PERMANENT TURF ESTABLISHMENT (FINAL STABILIZATION) MUST BE COMPLETED WITHIN THE TIME FRAME INDICATED IN THE SPPP narrative.

PERMANENT TURF ESTABLISHMENT WILL INCLUDE SOIL BED PREPARATION, SEED MIXTURE 26-311 SEEDING, FERTILIZER TYPE 4 AND EROSION CONTROL BLANKET CATEGORY 3N (NATURAL NETTING).

TEMPORARY TURF ESTABLISHMENT WILL BE BY RAPID STABILIZATION METHOD 3.

ALL AREAS DISTURBED BY THE CONTRACTOR'S EQUIPMENT OR OPERATIONS THAT WERE NOT NECESSARY FOR THE PLANNED CONSTRUCTION MUST BE RESTORED AS INDICATED ABOVE, OR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

UTILITIES

SEE UTILITY TABULATION FOR LIST OF UTILITY OWNERS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE "OH CALL EXCAVATION NOTICE SYSTEM" REQUIRED BY MINNESOTA STATUTE 2160.

THE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL 0. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CLASS 38-02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENT WITH THE UTILITY OWNER DURING CONSTRUCTION. ADJUSTMENTS TO BE DONE BY THE UTILITY OWNER UNLESS OTHERWISE NOTED IN THE PLAN.

MISCELLANEOUS

EARTHWORK FINISHING AND TOPSOIL COVERING OPERATIONS SHALL BE CONDUCTED CONCURRENTLY WITH GRADING OPERATIONS SO FAR AS TO PERMIT COMPLETION OF THE EROSION CONTROL ITEMS AT THE EARLIEST PRACTICAL TIME. TOPSOIL COVERING SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER THE GRADING SOILS HAVE BEEN FINISHED TO GRADE IN ANY SIGNIFICANT AREA.

BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS OR ANY OTHER MATERIAL WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT SUITABLE FOR SALVAGE OR FOR ROADWAY CONSTRUCTION, MUST BE DISPOSED OF BY THE CONTRACTOR OFF MNDOT RIGHT-OF-WAY IN ACCORDANCE WITH SPEC. 2104.

CONCRETE TRUCKS THAT WASH OUT WITHIN THE PROJECT LIMITS MUST DO SO AT A LOCATION APPROVED BY THE ENGINEER. HARDENED CONCRETE WASTE MUST BE REMOVED FROM THE PROJECT LIMITS AND PROPERLY DISPOSED IN ACCORDANCE WITH SPEC. 2104 (INCIDENTAL).

FOR RIT INFORMATION, CONTACT THE DISTRICT 1 DULUTH PAVEMENT MANAGEMENT SPECIALIST.

1. VERIFY ALL NOTES, THIS SET, AND ALL PREVIOUS SETS TO BE USED IN THE FIELD. 2. VERIFY ALL NOTES, THIS SET, AND ALL PREVIOUS SETS TO BE USED IN THE FIELD. 3. VERIFY ALL NOTES, THIS SET, AND ALL PREVIOUS SETS TO BE USED IN THE FIELD.

SOILS AND CONSTRUCTION NOTES

STATE PROJ. NO. 3108-70 (TH 38) SHEET NO. 3 OF 118 SHEETS

If there is bituminous on the job there should be tack coat notes.

QUESTIONS????

Any questions contact us ANYTIME:

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tim.swanson@state.mn.us

Chee Yeun Lay, P.E. @ 651-366-4662
chee.yeun.lay@state.mn.us

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