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# Design Scene Part 1 – Pay Item Guidance

Pay Item Guidance

5/31/2023

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## **Purpose of this Document**

The purpose of this document is to provide guidance in the use of certain pay items when preparing the Statement of Estimated Quantities (SEQ) in a construction plan. Information such as when specific pay items are required, notes to be added for clarity, and general explanation of pay items and quantity computations can be found in this document. The information is based on responses to common questions, best practices, and the goal of producing clear and consistent construction plans statewide.

This document is organized by pay item number; utilizing the categories in Division II – Construction Details in the Standard Specifications for Construction.

Please keep in mind that pay item numbers, descriptions and units must be identical to those listed in the current Standard Specifications for Construction and the AASHTOWare Project Item list maintained by MnDOT Central Office.

For more information on the overall preparation of the SEQ, see Design Scene Part 2 – Plan Conventions.

### **“As Directed by the Engineer” Statement**

This statement should be eliminated from plan notes since it may introduce ambiguity (depending on the district, engineer, etc) or direct the contractor’s means and methods. “AS APPROVED BY THE ENGINEER” should be used with discretion, for example, when it is necessary to approve the details of an operation.

## **2000-2051 General**

### **2011 As Built**

2011.601 AS BUILT by LUMP SUM; requires the collection and submittal of as-built data, including electronic asset location data and/or mark-up drawings by the contractor. This pay item should be utilized when plans include the following: Drainage/Stormwater, Traffic Management Systems, Lighting Systems, Signing, Traffic Control Signal Systems, Traffic Barrier, Earth Retaining Systems, Noisewalls, Rumble Strips.

### **2011 Construction Surveying – Automated Machine Guidance Muck Excavation**

2011.601 CONSTRUCTION SURVEYING by LUMP SUM; required when muck excavation quantities are greater than or equal to 30,000 cubic yards, or when muck excavation activities are anticipated to be under water (consider the size and/or depth of excavation activities). For quantities less than 30,000 cubic yards, contact OCIC to confirm project is a good candidate.

### **2016 Quality Management – E-Ticketing (Material Delivery Management System [MDMS])**

2016.609 QUALITY MANAGEMENT – E-TICKETING by TON; use if District requests use of the MDMS (E-Ticketing) for use with one or more of the following specifications:

- (1) 2353 (Ultrathin Bonded Wear Course) – ton and square yard
- (2) 2360 (Plant Mixed Asphalt Pavement) – ton
- (3) 2363 (Permeable Asphalt Stabilized Base (PASB) – ton
- (4) 2365 (Stone Matrix Asphalt [SMA]) – ton

Contact the Advanced Materials and Technology (AMT) unit if District is interested in using this technology with one or more of the following specification areas. (The MDMS has not been piloted in these specification areas, and therefore, further communications are necessary to discuss the status and availability of the technology with respect to these specification areas.)

- (1) 2301 (Concrete Pavement) – cubic yard and square yard
- (2) 2461 (Structural Concrete) – cubic yard
- (3) 2118 (Aggregate Surfacing) – ton
- (4) Aggregate and granular material that is placed by the ton (e.g., RIPRAP, variable depth thicknesses) – ton

This technology is not recommended on projects where there is minimal to no data cellular coverage and contracts where it is anticipated that the Contractor will obtain material from a supplier (e.g., centralized plants).

**2016 Quality Management – Intelligent Construction Technology Methods**

2016.601 QUALITY MANAGEMENT - THERMAL PROFILING by LUMP SUM; and 2016.601 QUALITY MANAGEMENT - INTELLIGENT COMPACTION by LUMP SUM; required when the plan has pay items per Table 2016-1 and the net length is greater than or equal to 2 miles for materials requiring the intelligent construction technology (ICT). Required on 100 percent of traffic lanes, E-ZPass lanes (including buffer), continuous left turn lanes, and passing lanes.

ICT not recommend on projects with limited satellite coverage (overhanging tree canopy in right of way).

ICT measurements are not required on the following: roundabouts (exclude the Traffic Lane between the roundabout and mainline transition prior to and after the radius point of the roundabout), frontage roads, traffic and auxiliary lane tapers, ramps, shoulders, cross-overs, right turn lanes, J-turns, non-continuous left turn lanes, loops, bypass lanes, acceleration/deceleration lanes, and intersecting streets.

ICT measurements are not required on areas of excavation (that are below the Layer requiring the ICT method) that are less than or equal to 750 linear feet.

Table 2016-1 Details materials requiring the ICT method.

Pay Item	2016.601 Quality Management – Thermal Profiling	2016.601 Quality Management – Intelligent Compaction
2215 (Reclamation) Stabilized Full Depth Reclamation (SFDR) initial pulverization and compaction	(Blank)	Required

2215 (Reclamation) Stabilized Full Depth Reclamation (SFDR) final pulverization, mixing with additives, and compaction	(Blank)	Required
2390 (Cold-In-Place Recycled [CIR] & Cold Central Plant Recycling [CCPR] Bituminous)	(Blank)	Required
2353 (Ultrathin Bonded Wearing Course [UTBWC])	(Blank)	Required
2360 (Plant Mixed Asphalt Pavement)	Required	Required
2365 (Stone Matrix Asphalt [SMA])	Required	Required

## 2021 Mobilization

2021.501 MOBILIZATION by LUMP SUM; consists of mobilizing labor, equipment and supplies to the project and is included in most plans. Standalone projects such as landscaping, signals, TMS, and lighting may not require mobilization, however it should be considered. If mobilization is needed, but omitted from the plan, a bidder might distribute the cost to mobilize among other pay items.

## 2031 Field Office and Laboratory

2031.502 COMBINATION FIELD LABORATORY OFFICE by EACH; is a standard pay item in the 2020 Spec Book with all requirements defined and therefore noting the type of service is no longer needed.

## 2051 Maintenance and Restoration of Haul Roads

2051.501 MAINTENANCE AND RESTORATION OF HAUL ROADS by LUMP SUM should be used in plans where haul roads will be designated for hauling construction materials such as soil, sand, gravel, aggregate, bituminous and/or concrete.

## 2101-2131 Grading

### 2101 Clearing and Grubbing

Consider the allowable dates for the contractor to complete these operations if there are Long Eared Bats within the project limits. Include this information in the Special Provisions.

### 2103 Building Removal

2103.501 BUILDING REMOVAL by LUMP SUM; includes all buildings listed for removal within the contract. It is not necessary to have separate pay items for each building or parcel such as BUILDING REMOVAL A, B, etc.

The following 2103 items, if applicable, are paid for separately:

2103.502 DISCONNECT SEWER SERVICE by EACH

2103.502 DISCONNECT WATER SERVICE by EACH

2103.507 BASEMENT EXCAVATION FILL by CU YD; add note: The contractor shall provide and rake in grass seed mixture xxx at a rate of xx pounds per acre on all disturbed areas (incidental).

Related 2104 Removal items, if applicable, are also paid for separately:

2104.502 REMOVE SEPTIC TANK by EACH; add note: Includes/Does not include drain field

2104.502 ABANDON & SEAL WELL SHAFT by EACH

2104.502 REMOVE UNDERGROUND TANK by EACH

2104.502 REMOVE ABOVEGROUND TANK by EACH

2104.601 REGULATED WASTE EVALUATION by LUMP SUM or 2104.601 REMOVE REGULATED WASTE MATERIAL by LUMP SUM (used for asbestos, fluorescent bulbs, mercury switches, etc)

## **2104 Removing Pavement and Miscellaneous Structures**

2104.502 REMOVE ENERGY ABSORBING TERMINAL by EACH; note the type of end terminal being removed. This is noted because contractors can reuse parts which may be reflected in the bid price.

2104.502 REMOVE CASTING by EACH; use when removing casting only. Removal of casting is included with 2104.502 REMOVE DRAINAGE STRUCTURE by EACH.

2104.503 REMOVE PIPE CULVERTS by LIN FT; note if removal length includes apron.

2104.503 REMOVE CONCRETE BOX CULVERT by LIN FT; note size and Bridge Number. Pay for end sections separately (2104.502 REMOVE CONCRETE BOX CULVERT END SECTION by EACH). If multiple Box Culverts are being removed, note sizes and Bridge No's for each removal.

2104.503 REMOVE WOVEN WIRE/CHAIN LINK/WOOD FENCE by LIN FT; note height.

2104.503 REMOVE GUARDRAIL by LIN FT; use when removing rail only.

2104.503 REMOVE GUARDRAIL – PLATE BEAM by LIN FT; use when removing rail and posts. Note if pay item includes Design Special.

2104.504 REMOVE PAVEMENT by SQ YD; use when removing bituminous over concrete. Note pavement depths and if concrete is reinforced or non-reinforced (removal of reinforced concrete requires greater effort).

2104.504 REMOVE BITUMINOUS PAVEMENT by SQ YD; note depth(s).

2104.504 REMOVE BITUMINOUS SHOULDER PAVEMENT by SQ YD; not necessary to note depth. The remaining aggregate shoulder material may need to be supplemented.

2104.504 REMOVE CONCRETE PAVEMENT by SQ YD; note depth(s) and if reinforced or non-reinforced (removal of reinforced concrete requires greater effort).

2104.601 HAUL SALVAGED MATERIAL by LUMP SUM consists of loading and hauling salvaged materials that are not being installed on the project. Federal funds cannot be used for hauling salvaged materials. Therefore, if the project is federally funded, add a FUNDING NOTE (letter A, B, etc) stating 100% STATE FUNDS to the pay item. Also keep in mind that our 2104 spec indicates all salvaged materials are neatly stored within the project limits and therefore they can be hauled by our maintenance forces in lieu of the haul pay item.

## **2105 Excavation and Embankment**

All 2105 pay items have removed from the 2020 Standard Specifications to the Special Provisions. Geotextile Fabric and Geogrid is a new Spec 2108. Geotextile Filter is still under Spec 2511 Riprap. Dewatering is Spec 2106.

## **2106 Excavation and Embankment – Compacted Volume Method**

2106.507 EXCAVATION – COMMON by CU YD; this quantity includes topsoil excavation.

2106.507 COMMON EMBANKMENT (CV) by CU YD; this quantity includes topsoil.

2106.601 DEWATERING by LUMP SUM; use when needed for dewatering above and beyond what is included in our standard specifications for culvert and storm sewer construction. Include bidding information in the plan or special provisions such as water volume or flow rates.

## **2112 Subgrade Preparation**

2112.519 SUBGRADE PREPARATION by ROAD STA; measured by length (100' = 1 ROAD STA), along the centerline of the embankment. On divided roadways each centerline length is measured separately.

2112.603 SHOULDER PREPARATION by LIN FT; measure separately the length of each roadway shoulder where work is performed. For example: on a 100' section of roadway if shoulder prep is on right side only, the LIN FT = 100 but if shoulder prep is on both left and right side, the LIN FT = 200. Use when work is non-continuous or when work is on one side only.

2112.619 SHOULDER PREPARATION by ROAD STA; measured by length (100' = 1 ROAD STA), along the centerline and includes both left and right shoulders. On divided roadways each centerline length should be measured separately. Use when work is continuous.

## **2123 Equipment Rental**

2123.510 and 2123.610 when used for equipment such as DOZERS and GRADERS by HOUR; note generally the type of work the item will be used for.

## **2211-2232 Base Construction**

### **2215 Reclamation**

2215.504 FULL DEPTH RECLAMATION by SQ YD; note depth

### **2232 Rumble Strips**

2232.602 MILLED RUMBLE STRIPS by EACH; used at stop sign locations per standard detail. Note that the quantity is based per pair of rumbles.



## 2232 Mill Pavement Surface – Automated Machine Guidance Milling Using Relative Surface or Robotic Total Stations

2232.604 MILL BITUMINOUS PAVEMENT (SPECIAL) by SQUARE YARD; use if District requests use of automated machine guidance (AMG) AMG milling. The following details the applications for use of AMG milling using the relative surface and AMG milling using robotic total stations.

### *AMG milling using relative surface applications*

AMG milling using the relative surface can be used on the following applications:

- (1) Milling existing asphalt surface when a permeable asphalt stabilized stress relief course (PASSRC) is used as a bond-breaker for an unbonded concrete overlay and variable depth milling will be used to allow for varying thicknesses of asphalt to be left in place for profile/cross-slope corrections.
- (2) Milling existing asphalt surface for an asphalt mill and overlay when profile, cross-slope, and/or smoothness corrections.
- (3) Milling existing asphalt surface for thinlays.
- (4) Milling the existing asphalt pavement for FDR and SFDR applications:
  - (a) Quantify millings due to variable depth milling.
  - (b) Ensure uniform blends due to varying existing pavement thicknesses.
  - (c) Cross slope corrections so blade corrections are not required that could cause non-uniform layer thicknesses.
  - (d) Minimize movement of material by blade.
  - (e) Profile corrections.
- (5) Milling the existing asphalt pavement for CIR and CCPR applications:
  - (a) Control existing pavement thickness platform when there are concerns with punching through of construction equipment into aggregate base.
  - (b) Correct for smoothness, cross-slopes and/or profiles prior to CIR/CCPR process.

AMG milling using the relative surface is not recommended on projects where:

- (1) Limited satellite coverage (overhanging tree canopy in ROW).
- (2) Projects, or urban areas, with physical features located in the milling operation (e.g., gate valves, locations where milling is around manhole covers in lieu of removing rings, milling directly over manhole covers).
- (3) Projects, or areas that have elevation-based tie-ins (e.g., shoulders being left in place, existing and new curb and gutter, ADA limitations) where the existing surface model did not include accurate, absolute elevations. Recommend using Profile Milling for these projects. (Profile

milling is a milling process that follows a proposed plan profile using either string line or existing features.)

- (4) Bituminous over concrete (BOC) overlays, where 100 percent of the asphalt will be removed.
- (5) Projects, where a surface model is needed after the milling operation, unless surface model of milled surface is captured post milling, or the existing surface model included accurate, absolute elevations.

*AMG milling using robotic total stations applications*

Milling existing asphalt surface for:

- (1) Whitetopping
- (2) When milling existing asphalt pavement that is used as a bond-breaker for an unbonded concrete overlay
- (3) When milling existing asphalt pavement and geotextile is used as a bond-breaker/drainage layer.
- (4) When activities occur after the milling that disturb the milled surface, and there is a need/desire to allow the Contractor to bring the material back to a modeled, elevation-based surface (e.g., CCPR, pavement replacement under bridge, longitudinal utility installations, when FDR compaction is required to be completed in lifts, etc.).

The following are some benefits realized from use of this elevation-based milling technology:

- (1) Reduced survey resources required for placing hubs and stakes during construction.
- (2) Make up for cross-slope and profile corrections are achieved through the milling operation by leaving existing material in-place in lieu of adding extra concrete thickness during the paving operation.
- (3) Improved safety by correcting cross-slope.
- (4) Dowel baskets are more likely to be in the middle of pavement when using variable depth milling due to the ability to pave to depth.
- (5) Model available to allow for stingless paving.

AMG milling using robotic total stations is not recommended on projects where:

- (1) Line of site limitations (technology requires line of sight connection over a 500-foot span).
- (2) Corridor width limitations (e.g., narrow right of way).

## 2301-2399 Pavement Construction

### 2301 Concrete Pavement

2301.502 DOWEL BAR by EACH; use when dowel bars are standard diameter based on pavement thickness and according to the Dowel Bar Diameter Table as shown on Standard Plan 5-297.221 (1 of 2).

2301.504 CONCRETE PAVEMENT \_\_\_" by SQ YD; includes all cost to construct the pavement, including materials. This pay item is typically used for new concrete pavement. No separate pay item for the volume of concrete should be included.

2301.504 PLACE CONCRETE PAVEMENT \_\_\_" by SQ YD includes only the cost to construct the pavement and does not include materials. This pay item is typically used for concrete overlays. A separate pay item for 2301.507 STRUCTURAL CONCRETE by CU YD should be included.

2301.602 \_\_\_" DOWEL BAR by EACH; use when the diameter of the dowel bar specified for a particular pavement depth does not correspond to the Dowel Bar Diameter Table on Standard Plan Sheet 5-297.221 (1 of 2).

### 2302 Concrete Pavement Rehabilitation (CPR)

2302.5XX pay items are included in the 2020 Standard Specifications. A memo from the Concrete Office outlining the various CPR techniques, details to include in the plan and associated pay items can be found at the following link:

<http://www.dot.state.mn.us/materials/concretepavementrehabilitation.html>

### 2355 Bituminous Material for Fog Seal

2355.506 BITUMINOUS MATERIAL FOR FOG SEAL by GALLON; include a note for dilution and application rate. For example: *Quantity based on diluted mixture. Computed at an application rate of 0.16 gallons per sq yd.*

## 2401-2481 Bridges and Structures

### 2411 Minor Concrete Structures

2411.507 STRUCTURAL CONCRETE (3B52) by CU YD and 2411.508 REINFORCEMENT BARS (EPOXY COATED) by POUND; use this concrete mix and bar type for Moment Slabs.

### 2412 Precast Concrete Box Culverts

2412.502 PRECAST CONCRETE BOX CULVERT END SECTION by EACH and 2412.503 PRECAST CONCRETE BOX CULVERT by LIN FT; when a box culvert has a Bridge No and/or when it is replacing a Bridge, the Bridge Nos must be noted in the SEQ. This is necessary for tracking the funding and cost of bridges without making separate columns in the SEQ. Example: Box culvert No 23X10 replaces Bridge No 1234.

2412.503 PRECAST CONCRETE BOX CULVERT by LIN FT; pay items for excavation, bedding and special backfill are separate. Include detail for box culvert treatment, bedding and plastic soil cap.

## **2451 Structure Excavations and Backfills**

2451.507 FINE AGGREGATE BEDDING or COARSE AGGREGATE BEDDING by CU YD; include as required for pipe culverts without treatments (per Standard Plan 5-297.440 and .441) and pipe culverts with treatment (per plan detail). This pay item should not be included for storm sewer bedding (per Standard Plan 5-297.442) as the bedding is included in the unit price of storm sewer.

2451.607 STRUCTURAL BACKFILL by CU YD; backfill material for Bridge Approach Treatment per Standard Plans. This was previously Select Granular Material Mod 10%.

## **2501-2582 Miscellaneous Construction**

### **2501 Pipe Culverts**

2501.502 PIPE APRONS by EACH; follow safety apron and grate guidance in the Facility Design Guide Chapter 13C.5.3 Safety Design Practice for culvert ends within the clear zone.

2501.503 PIPE CULVERTS by LIN FT; without treatments - include Standard Plan 5-297.440 Standard Culvert Bedding for Flexible Pipe and/or 5-297.441 Standard Culvert Bedding for Rigid Pipe in the plan. The notes state that aggregate bedding is a separate pay item and that no pay items for excavation and backfill with select grading material should be included since they are included in the culvert pay item.

2501.503 PIPE CULVERTS by LIN FT; with treatments - include a Culvert Bedding for Flexible/Rigid Pipe Detail. The detail should note the bedding and backfill materials and how excavation is paid. Separate pay items and quantities should be in the plan for these items.

### **2502 Subsurface Drainage**

2502.503 X" \_\_ PIPE DRAIN by LIN FT; include the correct Standard Plans (5-297.430 to .433) depending on the type and if there are outlet pipes. Check that the pipe drain size and type (PE, TP, PERF, etc) are paid for, tabbed and called out consistently in the plan.

### **2503 Pipe Sewers**

2501.503 PIPE SEWER by LIN FT; include Standard Plan 5-297.442 Standard Storm Sewer Bedding for Rigid and Flexible Pipe in the plan. Excavation, Fine Aggregate Bedding and backfill with Select Grading Material are included in the storm sewer pay item as noted on the Standard Plan. Include a separate detail/pay items if storm sewer treatments are included in the plan.

2503.603 LINING SEWER PIPE \_\_" by LIN FT; grout is incidental unless otherwise noted.

### **2506 Manholes and Catch Basins**

2506.502 CONSTRUCT DRAINAGE STRUCTURE DES \_ by EACH; includes casting assembly. Assembly type should be noted and tabbed but not paid for separately. If SPECIAL include detail.

2506.502 CASTING ASSEMBLY by EACH; use when payment for DRAINAGE STRUCTURE is by LIN FT.

2506.503 CONSTRUCT DRAINAGE STRUCTURE DES \_ by LIN FT; include separate payment for CASTING ASSEMBLY by EACH.

### **2507 Culvert Liner**

2507.503 LINING CULVERT PIPE \_\_\_" by LIN FT; this pay item is for a PE liner and the grout between the liner and culvert is paid for separately. Include pay item 2519.507 CLSM LOW DENSITY by CU YD or 2519.507 CLSM HIGH DENSITY by CU YD.

2507.603 LINING CULVERT PIPE (\_\_\_") SPECIAL by LIN FT; add the following note: Cured in Place Pipe (CIPP).

### **2511 Riprap**

2511.504 GEOTEXTILE FILTER TYPE \_ by SQ YD; include this pay item for the filter below Riprap at outlets per Standard Plates.

### **2521 Walks**

2521.518 \_\_\_" CONCRETE WALK by SQ FT; aggregate base is not included in the 2521 pay items and should be computed and paid for separately. Minor earthwork is included when replacing existing walk, but calculate and pay for separately for new walk or when location is changing.

2521.518 4" OR 6" COLORED CONCRETE WALK by SQ FT; use this pay item for colored sidewalk in lieu of 4" or 6" CONCRETE WALK SPECIAL. This helps us track the unit price.

### **2531 Concrete Curb & Gutter**

2531.503 Concrete Curb & Gutter Design \_\_\_ by LIN FT; aggregate base is not included in the 2531 pay items and should be computed and paid for separately.

### **2533 Concrete Median Barriers**

2533.503 CONCRETE MEDIAN BARRIER DES \_\_\_ TYPE \_\_\_ by LIN FT; measure and pay separately by Type. Type A, AL and Transition are measured along the top of the barrier. Type AA is also measured along the top of the barrier, but each side is measured separately.

### **2540 Mail Box Support**

2540.602 MAIL BOX SUPPORT by EACH; includes removing existing mail box and support and furnishing and installing new mail box support and attaching the mail box per the boiler plate provision. Include 9350 in the Standard Plates list.

## **2545 Lighting Systems**

2545.501 LIGHTING SYSTEM by LUMP SUM; includes new system and removal/salvage of existing system (includes structures, conduit, etc). Individual quantities should not be tabulated. If any part of the system is being salvaged, include 2104.601 HAUL SALVAGED MATERIAL by LUMP SUM.

## **2563 Raised Pavement Marker Temporary**

2563.602 RAISED PAVEMENT MARKER TEMPORARY by EACH; note quantity of one-way, two-way and color.

## **2563 Temporary Impact Attenuator**

2563.615 TEMPORARY IMPACT ATTENUATOR by ASSEMBLY; note Test Level for each assembly.

## **2564 Install Sign Type C or D**

2564.502 INSTALL SIGN TYPE C and 2564.502 INSTALL SIGN TYPE D; include posts and mounting hardware but does not include the cost of the panel. The sign panel to be installed can either be salvaged from the project or can be supplied by MnDOT but will not be furnished by the contractor.

## **2564 Install Sign Panel Type C or D**

2564.502 INSTALL SIGN PANEL TYPE C and 2564.502 INSTALL SIGN PANEL TYPE D; include the mounting hardware for the sign but does not include the cost of posts or the panel. The sign panel to be installed can either be salvaged from the project or can be supplied by MnDOT but will not be furnished by the contractor. A typical application for this bid item would be to install a sign panel supplied to the contractor or salvaged from the project to an existing structure or signal pole or mast arm.

## **2565 Traffic Control Signals**

2565.516 TRAFFIC CONTROL SIGNAL SYSTEM by SYSTEM; includes removing and salvaging or disposing of the existing traffic control signal system per standard Div SS provision.

## **2573 Storm Water Management**

2573.501 EROSION CONTROL SUPERVISOR by LUMP SUM; use on projects with high risk of impacts to public waters.

2573.501 STABILIZED CONSTRUCTION EXIT by LUMP SUM; standard pay item when selection, implementation and maintenance can be left to the contractor to decide proper means and methods.

2573.503 FLOATATION SILT CURTAIN, TYPE STILL/MOVING WATER by LIN FT; note depth on SEQ or tab.

2573.602 TEMPORARY STREAM DIVERSION SYSTEM by EACH or LUMP SUM; new pay item number and unit available in the 2020 AASHTOWare list. This was previously 2105.601 TEMPORARY STREAM DIVERSION SYSTEM by LUMP SUM as the only option.

## **2574 Soil Preparation**

2574.505 SOIL BED PREPARATION by ACRE; use on all projects with seeding and a quantity equal to the seeding area.

2574.507 COMMON TOPSOIL BORROW by CU YD; use only when necessary for establishing turf such as in residential or commercial boulevards. Locations of borrow placement must be shown in plan. Existing topsoil stripping and reuse is typically acceptable to establish turf along highways.

2574.508 FERTILIZER TYPE \_ by POUND; note analysis and application rate on SEQ or tab.

## **2575 Establishing Vegetation and Controlling Erosion**

2575.501 TURF ESTABLISHMENT by LUMP SUM; for establishing permanent vegetation on small areas of 2.5 acres or less. See spec book for what is included in pay item and note any changes.

2575.505 WEED SPRAYING by ACRE; is the application of the product. Also include the pay item for the product; 2575.506 WEED SPRAY MIXTURE by GALLON with a note stating the mixture to be used.

2575.508 SEED MIXTURE \_\_\_ by POUND; application rate should only be noted if different from the rate in the spec book.

2575.602 SITE RESTORATION by EACH; typically used for pedestrian ramp only projects. Includes site grading and turf establishment as described in special provision. For larger areas use payment by SQ FT or SQ YD.

## **2580 Interim Pavement Marking**

2580.501 INTERIM PAVEMENT MARKING by LUMP SUM or 2580.503 INTERIM PAVEMENT MARKING by LIN FT; use for same day pavement markings placed on bituminous lifts or milled surfaces (striping for detours or prior to project suspensions should be paid with 2582 pay items; usually paint). Note amount of yellow solid/broken line and white broken line when paid by LIN FT. Material can be specified (eg.: tape, epoxy, etc) but if not, you'll get paint.