

PROJECT NOTES

1. APPROXIMATE WETLAND AND OTHER RESOURCE LOCATIONS HAVE BEEN IDENTIFIED. SEE PROJECT LAYOUT SHEETS FOR APPROXIMATE LOCATIONS. THE PROJECT SHALL BE CONSTRUCTED AS DESIGNED AND WITHIN THE LIMITS ESTABLISHED BY THE CROSS SECTIONS. IF IT IS DEEMED NECESSARY BY THE CONTRACTOR TO WORK BEYOND THOSE LIMITS IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE ANY NECESSARY STATE AND/OR FEDERAL PERMITS.
2. ALL WORK SHALL BE PERFORMED WITHIN THE STATE RIGHT OF WAY.
3. ADDITIONAL QUANTITIES FOR ITEMS 203.15 COMMON EXCAVATION, 301.35 SUBBASE OF DENSE GRADED CRUSHED STONE, AND 649.11 GEOTEXTILE FOR ROADBED SEPARATOR HAVE BEEN ESTIMATED TO ADDRESS POSSIBLE UNSUITABLE SUBBASE MATERIAL ENCOUNTERED WITHIN THE PROJECT. REFER TO TYPICAL SECTION ON SHEET 13 AND DETAILS ON SHEET 16 AND 18.
4. A QUANTITY OF ITEM 204.21 TRENCH EXCAVATION OF ROCK HAS BEEN INCLUDED IN CASE LEDGE IS ENCOUNTERED DURING THE INSTALLATION OF UNDERDRAIN.
5. COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL SECTION OR AS NOTED OTHERWISE ON THE PLANS. THIS SHALL BE PAID AS EITHER ITEM 900.675 SPECIAL PROVISION (COLD PLANING, BITUMINOUS PAVEMENT) OR ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT AS INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGINNING AND END OF THE PROJECT AND AT ALL PAVED SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. SAWCUTTING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO THE ADJACENT COLD PLANING ITEM.
6. SOME ADDITIONAL FINE GRADING OF ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED MAY BE NECESSARY, DUE TO EXPOSURE TO TRAFFIC ETC., BEFORE THE PLACEMENT OF THE SUPERPAVE BITUMINOUS CONCRETE BASE COURSE AND WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
AN ADDITIONAL QUANTITY OF ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED HAS BEEN INCLUDED TO CORRECT SUPERELEVATION AND GRADATION DEFICIENCIES.
7. ITEM 609.15 DUST AND ICE CONTROL WITH CALCIUM CHLORIDE SHALL BE APPLIED FOR DUST CONTROL ON ALL GRANULAR SURFACES PRIOR TO OPENING THEM TO TRAFFIC AT THE RATE OF FIVE T/MILE OR AS DIRECTED BY THE ENGINEER.
8. EMULSIFIED ASPHALT TYPE CRS-IH OR RS-IH SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES. ALL EXISTING AND COLD PLANED SURFACES SHALL HAVE AN APPLICATION RATE OF 0.08 GAL/SY. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL OTHER PAVED SURFACES AT THE RATE OF 0.025 TO 0.040 GAL/SY. PAVEMENT WILL BE MADE UNDER ITEM 404.65 EMULSIFIED ASPHALT OR 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH).
9. THE WEARING COURSE SHALL BE ITEM 900.680 SPECIAL PROVISION (9.5 MM SBS POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT) (PG 76-34) (SBS POLYMER). THE INTERMEDIATE AND BASE COURSES SHALL BE ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 70-28) (SBS POLYMER) TYPE IIS. ANY NECESSARY MODIFICATIONS TO PRODUCE THE PG 70-28 ASPHALT BINDER ARE RESTRICTED TO SBS POLYMERS.
10. ITEM 900.680 SPECIAL PROVISION (9.5 MM SBS POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT) (PG 76-34) (SBS POLYMER) TOLERANCE = +/- 1/4 INCH (TOTAL THICKNESS).
ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG-70-28) (SBS POLYMER) TOLERANCE = +/- 1/4 INCH (TOTAL THICKNESS).
ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED TOLERANCE = +/- 1 INCH (TOTAL SUBBASE THICKNESS).
11. EDGES OF PAVEMENT SHALL INCLUDE A SAFETY EDGE AS SHOWN ON HIGHWAY SAFETY & DESIGN DETAIL HSD-400.01.
12. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDERS AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER AGGREGATE SHOULDERS (OPTION ITEMS).
13. ALL PAVED AND GRAVEL RESIDENTIAL AND COMMERCIAL DRIVES SHALL RECEIVE A PAVED APRON OF FOUR FEET UNLESS OTHERWISE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 900.675, SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS (OTHER THAN DRIVES) WHETHER BY HAND OR MECHANICAL METHODS WILL BE PAID AS EITHER ITEM 900.680 SPECIAL PROVISION (9.5MM SBS POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT) (PG 76-34) (SBS POLYMER), ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 70-28) (SBS POLYMER) OR ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) AS DIRECTED BY THE ENGINEER.
14. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS, UNDERDRAIN OUTLETS, AND DROP INLETS LOCATED OUTSIDE THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
15. THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF BOX BEAM GUARDRAIL WITH 5'-3" POSTS. IF THIS CANNOT BE OBTAINED THEN SEVEN FOOT POSTS SHALL BE USED. PAYMENT WILL BE MADE UNDER SPECIAL PROVISION ITEM 900.640 (BOX BEAM GUARDRAIL W/7 FEET POSTS).
16. ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END TERMINAL FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED 25 CUBIC YARDS OF ITEM 203.30 EARTH BORROW HAS BEEN INCLUDED FOR EACH NEW GUARDRAIL END TERMINAL FLARE IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE FOR THIS PURPOSE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END TERMINAL FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE TO BE USED AS DIRECTED BY THE ENGINEER. PRIOR TO THE PLACEMENT OF TEMPORARY EROSION MATTING, THE AREA SHALL BE TOPSOILED AND SEEDED USING ITEM 651.35, TOPSOIL AND ITEM 651.15 SEED.
17. QUANTITIES FOR ITEM 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, ITEM 604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II, ITEM 604.40 CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES AND ITEM 604.42 CHANGING ELEVATION OF SEWER MANHOLES HAVE BEEN INCLUDED TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

IN THE AREAS OF CONCRETE REMOVAL, THERE IS PROVISION TO PAY FOR THE STRUCTURES IN TWO STAGES AS FOLLOWS. THE FIRST PAYMENT WILL USE ONE OF THE REHAB. ITEMS (604.412, CLASS I OR 604.415, CLASS II) TO SET THE STRUCTURES TO THE ELEVATION AT THE TOP OF THE PAVEMENT BASE COURSE. THE SECOND PAYMENT WILL BE PAID AS ITEM 604.40 CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES TO ADJUST THE STRUCTURE ELEVATIONS TO THE FINISHED GRADE OF THE WEARING COURSE.

ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES HAVE BEEN DISTRIBUTED BETWEEN ITEMS 604.40, 604.412, AND 604.415 FOR ESTIMATING PURPOSES.

A QUANTITY OF ITEM 604.40 CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES HAS ALSO BEEN INCLUDED FOR PHASED ADJUSTMENT OF ITEM 604.18 PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE LOCATED IN THE ROADWAY.

18. DAMAGE INFLICTED BY THE CONTRACTOR TO ANY DROP INLETS, CROSS CULVERTS OR OTHER DRAINAGE FEATURES IS THE LIABILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
19. ITEM 613.10 STONE FILL, TYPE I, ITEM 651.40 GRUBBING MATERIAL (6"), ITEM 653.20 TEMPORARY EROSION MATTING, AND ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I HAVE BEEN INCLUDED FOR AREAS WITH PROPOSED SIDE SLOPES STEEPER THAN 1:1.5 AND TO PROVIDE FOR REPAIR OF EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE ENGINEER.
20. A QUANTITY HAS BEEN ESTIMATED FOR ITEMS 617.10 RELOCATE MAILBOX, SINGLE SUPPORT AND ITEM 617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT, TO BE USED AS DETERMINED BY THE ENGINEER.
21. ADDITIONAL QUANTITIES FOR PAY ITEMS 649.51 GEOTEXTILE FOR SILT FENCE, 651.15 SEED, 651.18 FERTILIZER, 651.20 AGRICULTURAL LIMESTONE, 653.20 TEMPORARY EROSION MATTING AND 651.25 HAY MULCH HAVE BEEN INCLUDED FOR STONE FILL SLOPE STABILIZATION AREAS TO BE PLACED ON GRUBBING MATERIAL.
22. BOX BEAM GUARDRAIL SHALL BE USED ON THIS PROJECT.
23. AREAS OF DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.
24. A QUANTITY OF ITEM 601.995 CLEANING CULV. PIPE, IN-PLACE (0 TO 24 IN., INCL.) HAS BEEN INCLUDED TO BE USED AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
25. WHEN FINISHED GRADE HAS BEEN MET, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGNS BEING RETAINED ARE IN CONFORMANCE WITH VAOT STANDARD E-121 & T-56 AS DIRECTED BY THE ENGINEER.
26. A QUANTITY HAS BEEN ESTIMATED FOR ITEM 201.31 THINNING AND TRIMMING FOR SIGNS AS DETAILED ON SHEET 29.
27. QUANTITIES FOR ITEM 653.50 BARRIER FENCE AND ITEM 653.60 EROSION LOG HAVE BEEN INCLUDED FOR USE ADJACENT TO THE ENVIRONMENTALLY SENSITIVE AREAS IDENTIFIED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
28. ITEM 651.40 GRUBBING MATERIAL (2") AND ITEM 653.20 TEMPORARY EROSION MATTING HAVE BEEN INCLUDED FOR AREAS WITH PROPOSED SIDE SLOPES STEEPER THAN 1:2 BUT FLATTER THAN 1:1.5 AS DIRECTED BY THE CONSTRUCTION ENVIRONMENTAL ENGINEER.
29. EXISTING UNDERGROUND AND AERIAL FACILITIES ARE LOCATED THROUGHOUT THE PROJECT AREA. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THOSE FACILITIES FOR VERIFICATION. OWNERSHIP OF THESE FACILITIES INCLUDES OPERATIONAL UTILITY COMPANIES, MUNICIPALITIES AND INDIVIDUAL PROPERTY OWNERS. THE CONTRACTOR IS CAUTIONED TO PROTECT THESE FACILITIES FROM DAMAGE.
30. GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE WEARING COURSE ITEM.
31. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE ENGINEER TO BE AT FAULT, THE RECOMMENDED REPAIRS SHALL BE COMPLETED AT NO COST TO THE STATE.
32. SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE FROM THE AGENCY'S APPROVED PRODUCT LIST.
33. AGGREGATE SHOULDERS (OPTION ITEMS) SHALL BE USED TO BACK UP EDGES OF PAVEMENT, EXCEPT IN LAWN AREAS WHERE ITEM 651.35 TOPSOIL SHALL BE USED.
34. EXISTING CONCRETE SLABS SHALL BE REMOVED UNDER ITEM 203.16 SOLID ROCK EXCAVATION AND REPLACED WITH ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
35. WHEN BIKE LANE SYMBOLS AND ARROWS ARE APPLIED OVER THE SPECIAL PROVISION (GREEN PAVEMENT MARKINGS-BICYCLE LANE), THE OPTION ITEMS LISTED FOR DURABLE LETTER OR SYMBOL SHALL BE USED. ALL OTHER BIKE LANE SYMBOLS AND ARROWS AND ARROWS SHALL BE DURABLE LETTER OR SYMBOL, TYPE D TAPE.
36. QUANTITIES FOR VALVE BOXES AND THEIR ADJUSTMENTS HAVE BEEN INCLUDED AND SHALL BE UTILIZED AS FOLLOWS:

AREAS OF NON-UNDERCUT: ALL VALVE BOXES IN AREAS OF UNDERCUT WILL BE REPLACED IN ACCORDANCE WITH THE VALVE BOX DETAILS IN THE PLANS AND WILL BE PAID IN ACCORDANCE WITH ITEM 900.620 SPECIAL PROVISION (REPLACEMENT OF VALVE BOX). ONCE REPLACED, ADJUSTMENT OF THE NEW VALVE BOX WILL BE PAID IN ACCORDANCE WITH ITEM 900.620 SPECIAL PROVISION (ADJUST ELEVATION OF VALVE BOX).

AREAS OF NON-UNDERCUT: IN AREAS THAT WILL NOT BE UNDERCUT THE CONTRACTOR WILL ADJUST EXISTING VALVE BOXES IN ACCORDANCE WITH ITEM 900.620 SPECIAL PROVISION (ADJUST ELEVATION OF VALVE BOX). IF ADJUSTMENT TO EXISTING VALVE BOXES IS UNACHIEVABLE THE VALVE BOX SHALL BE REPLACED AS DIRECTED BY THE ENGINEER UNDER ITEM 900.620 SPECIAL PROVISION (REPLACEMENT OF VALVE BOX) AND THEN ADJUSTED IN ACCORDANCE WITH ITEM 900.620 SPECIAL PROVISION (ADJUST ELEVATION OF VALVE BOX).
38. NEW DRAINAGE AND UNDERDRAIN SHALL BE KEPT FIVE FEET OR MORE FROM EXISTING UTILITY POLES. OWNERS OF THE POLES (SEE SPECIAL PROVISIONS) SHALL BE CONTACTED TO TEMPORARILY SUPPORT POLES IF EXCAVATIONS ARE LESS THAN FIVE FEET FROM EXISTING UTILITY POLES. ANY COST FOR TEMPORARY POLE SUPPORT WILL BE INCIDENTAL TO ASSOCIATED DRAINAGE AND UNDERDRAIN ITEMS.

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FILE NAME: zld340+typ.dgn	PLOT DATE: 3/1/2017
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