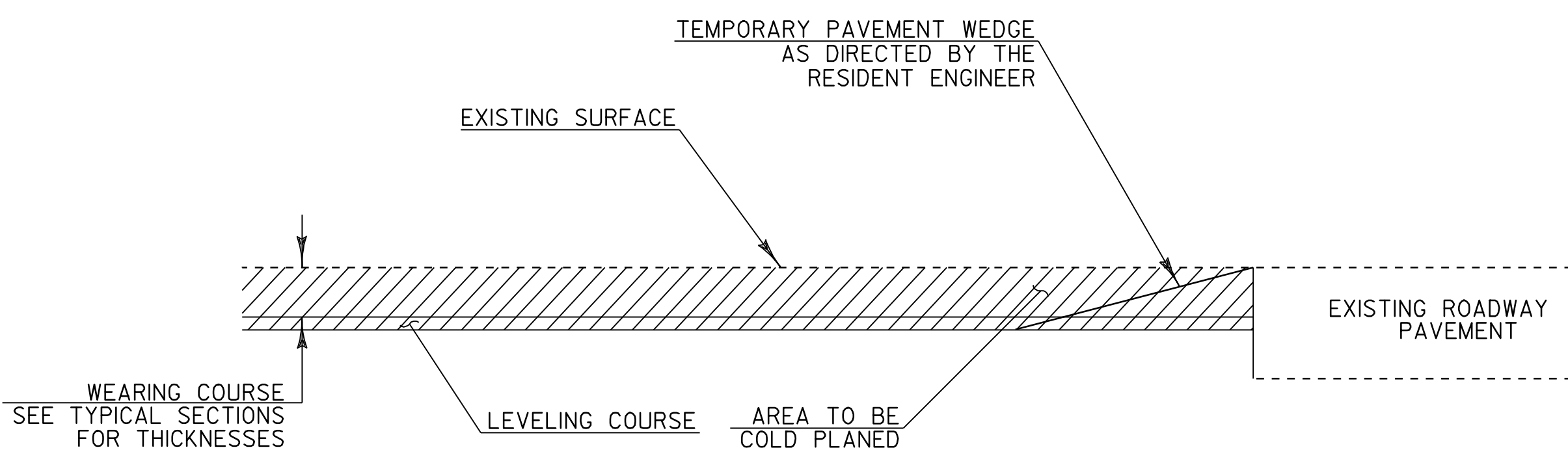


COLD PLANE AND OVERLAY TYPICAL SECTION

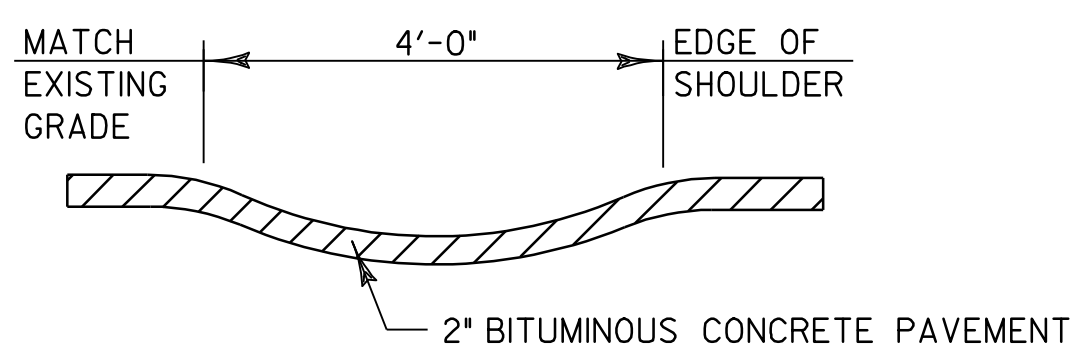
WILLIAMSTOWN
 STA. 200+64.00 TO 360+62.22
 BARRE
 STA. 0+00.00 TO 90+40.00

* SEE PROJECT PAVING LIMITS
 TABLE, SHEET 4 OF 32



APPROACH AREA DETAIL (BEGIN AND END PROJECT)

WILLIAMSTOWN
 STA. 200+64.00
 BARRE
 STA. 90+40.00



BITUMINOUS CONCRETE GUTTER DETAIL

LOCATIONS
 AS INDICATED ON PLANS

NOTES:

- EXISTING BITUMINOUS CONCRETE GUTTERS SHALL BE REMOVED WHERE INDICATED ON THE PLANS.
- THE BED UPON WHICH THE BITUMINOUS CONCRETE GUTTER WILL BE PLACED SHALL BE COMPACTED TO THE LINE, GRADE AND SLOPE AS DIRECTED BY THE RESIDENT ENGINEER.
- THE BITUMINOUS CONCRETE PAVEMENT SHALL BE LAID IN TWO COURSES, EACH ROLLED WITH A 150 POUND ROLLER.
- THIS WORK IS TO BE PAID FOR UNDER ITEM 616.47, 'BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS'. NOT INCLUDED IN THIS WORK IS ANY ADDITIONAL SUBBASE MATERIAL.

NOTES:

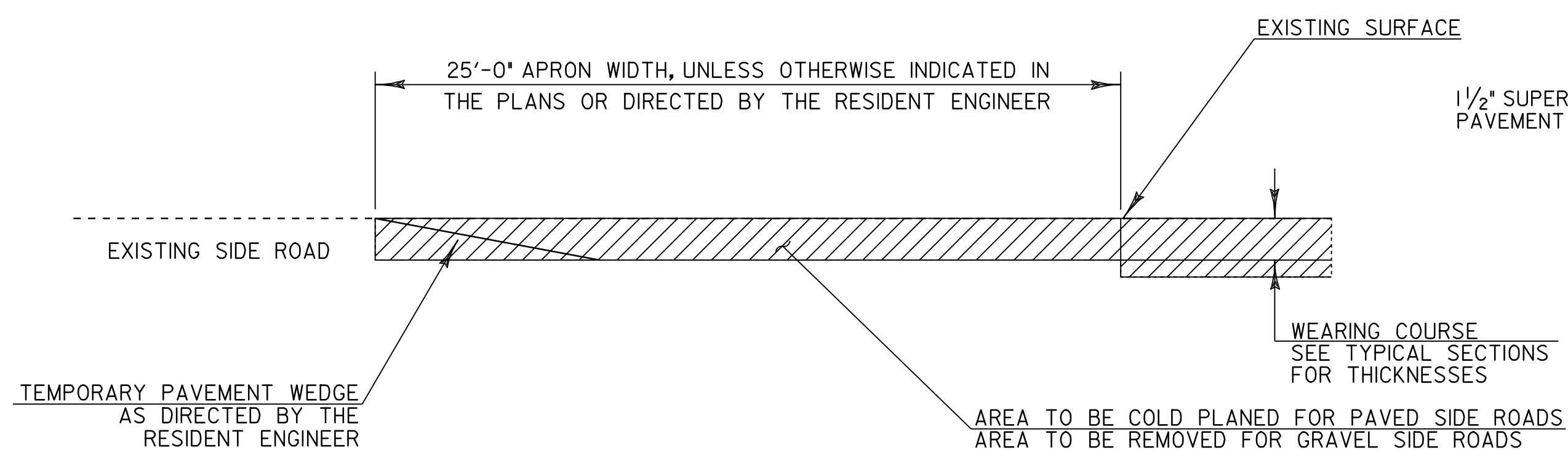
- THE WEARING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE LEVELING COURSE SHALL BE TYPE VS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. LEVELING HAS BEEN INCLUDED TO RESHAPE THE ROADWAY PRIOR TO PAVING THE TOP COURSE OF PAVEMENT. ALL ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON ALL COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT A RATE OF 0.025 GAL / SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 INCH (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
- COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL OR AS OTHERWISE NOTED ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGINNING AND END OF THE PROJECT, ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEMS). IF REQUIRED, A NEW DRIVEWAY SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 900.680, SPECIAL PROVISION (SUBBASE, RAP). THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30, 'SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34)'.
- GRAVEL PULL-OFFS SHALL RECEIVE A 5 FOOT PAVED APRON AS DIRECTED BY THE ENGINEER. ITEM 402.I3, 'AGGREGATE SHOULDERS, RAP' SHALL BE ADDED TO SHIM THE REMAINING GRAVEL SURFACE. ANY AND ALL REQUIRED EXCAVATION IN PULL-OFF AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEMS). THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30, 'SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34)'.
- THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6 FOOT POSTS. IF THIS CANNOT BE OBTAINED THEN 8 FOOT POSTS SHALL BE USED. THESE ITEMS SHALL BE PAID UNDER ITEM 621.20 'STEEL BEAM GUARDRAIL, GALVANIZED', ITEM 621.205 'STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS', AND ITEM 621.21 'HD STEEL BEAM GUARDRAIL, GALVANIZED'.
- IN AREAS WHERE A UTILITY POLE OR SIMILAR OBJECT IS LOCATED WITHIN 4 FEET BEHIND GUARDRAIL, A REDUCED POST SPACING SHALL BE USED. THE REDUCED SPACING IS DETAILED ON PROJECT TYPICAL SHEET 2.
- A QUANTITY FOR ITEM 604.412, 'REHABING DI, CB OR MH CLASS I' HAS BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER. ALL D.I.'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.I3, 'AGGREGATE SHOULDERS, RAP'.
- ITEM 616.47, 'BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS' WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS OR IN OTHER LOCATIONS AS DIRECTED BY THE RESIDENT ENGINEER. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVE AND SIDEROAD APPROACHES AND AROUND DRAINAGE AND UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, 'SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34)'.
- ESTIMATED QUANTITIES OF ITEM 608.25, 'ALL PURPOSE EXCAVATOR RENTAL, TYPE I', 608.37, 'TRUCK RENTAL', AND 608.40, 'LOADER RENTAL, TYPE I' HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30, 'EARTH BORROW' HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTIONS. 25 CY OF ITEM 203.30, 'EARTH BORROW' HAS BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION. GUARDRAIL END SECTIONS SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF ITEM 402.I3, 'AGGREGATE SHOULDERS, RAP' UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF ITEM 402.I3, 'AGGREGATE SHOULDERS, RAP' FOR EACH NEW GUARDRAIL END SECTION. ITEM 653.20, 'TEMPORARY EROSION MATTING' SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL END SECTIONS. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, 'TEMPORARY EROSION MATTING' FOR EACH NEW GUARDRAIL END SECTION. PRIOR TO THE PLACEMENT OF TEMPORARY EROSION MATTING, THE AREA SHALL BE TOPSOILED, SEED, AND MULCHED USING ITEM 651.35, 'TOPSOIL', ITEM 651.I5, 'SEED', AND ITEM 651.25, 'HAY MULCH'.
- YIELDING MARKER POSTS ARE TO BE USED TO REPLACE NON-YIELDING MARKER POSTS AT PIPE INLETS AND OUTLETS ONLY.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
- SEE SHEET 7 OF 32 FOR THINNING AND TRIMMING FOR SIGNS DETAIL AND LOCATIONS WHERE IT IS NEEDED.

**SEEDING FORMULA
 RURAL AREAS**

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFLOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

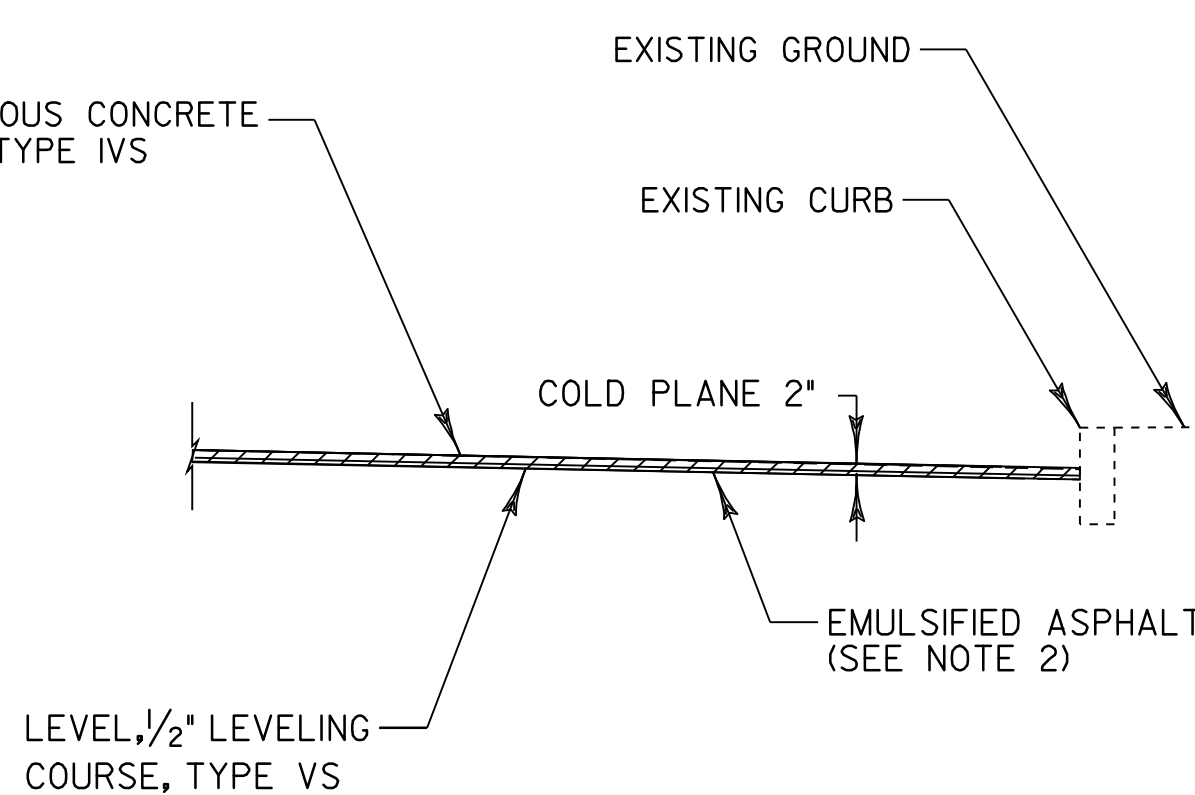
GENERAL NOTES

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.
- FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.



TRANSITION AREA FOR SIDE ROADS

SEE LAYOUT SHEETS FOR LOCATIONS
 OF ALL SIDE ROADS



CURB TYPICAL SECTION

**PROJECT
 TYPICAL
 SHEET 1**

PROJECT NAME: WILLIAMSTOWN-BARRE TOWN
 PROJECT NUMBER: STP 2210 (I)S
 FILE NAME: p99ci72.dgn
 PROJECT LEADER: EPD
 DESIGNED BY: CDL
 PLOT FILE: p99ci72+pl.i
 PLOT DATE: 29-APR-2009 13:3
 DRAWN BY: RHB
 CHECKED BY: EPD
 SHEET 3 OF 32

DETAILS ARE NOT TO SCALE