

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (2" THICK)

THIS ITEM SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 848 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

REVISIONS TO 858.15: AT THE OPTION OF THE ENGINEER, THE CONTRACTOR SHALL MAKE ONE OR MORE CUBIC YARD, TRIAL BATCHES OF OVERLAY MATERIAL AT LEAST 30 DAYS BEFORE THE OVERLAY IS TO BE PALCED. DEMONSTRATE THE ABILITY TO MEET 848.26 AND 848.31. DEVELOPE BEAM BREAK MATURITY CURVES.

REVISIONS TO 848.21: THE FINAL SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY. HAND CHIPPING OF AREAS WHERE THE HYDRODEMOLITION MACHINE DOES NOT HAVE ACCESS IS INCIDENTAL TO THE REMOVAL.

REVISIONS TO 848.24: PRIOR TO THE OVERLAY PLACEMENT, HOLD A PRE-PLACEMENT MEETING. ITEMS TO BE DISCUSSED INCLUDE:

- TIME OF STARTING PLACEMENT
- ANTICIPATED WEATHER CONDITIONS AND EMERGENCY COVERING MATERIALS IN CASE OF INCLEMENRT WEATHER.
- RATE OF DELIVERY OF THE CONCRETE TO ENSURE COMPLETION.
- AN ADEQUATE NUMBER OF DELIVERY VEHICLES AVAILABLE EXCLUSIVELY FOR THE PLACEMENT.
- METHOD OF PLACEMENT.
- CONSOLIDATION AND FINISHING OF THE CONCRETE.
- NUMBER OF FINISHERS AND THEIR DUTIES.
- APPLICATION OF THE SURFACE TEXTURE.
- TIMING OF FOGGING AND PLACENT OF WET CURE.
- REMOVAL OF WET CURE.
- APPLICATION OF SPRAY CURE.
- SAWING OF LONGITUDINAL GROOVES.
- ANY OTHER APPROPRIATE SUBJECTS.

REVISIONS TO 848.26: LONGITUDINAL GROOVES SHALL BE SAWED IN THE CONCRETE SURFACE OF THE TRAVELLED LANES PER 511.20, AFTER THE WET CURE IS COMPLETE. AFTER TEXTURING THE CONCRETE SURFACE, CLEAN THE SURFACE AND SPRAY AND UNIFORM APPLICATION OF CURING MATERIAL 705.07, TYPE 1 OR 1D, AS PER CMS 511.17 METHOD B OF MEMBRANE CURING. THE DECK SURFACE MUST BE DRY PRIOR TO PLACEMENT OF THE CURING MATERIAL. IF THE SAWING OF THE LONGITUDINAL GROOVES CAN NOT BE DONE WITHIN THE SAME SHORT-TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, AND SHALL HAVE 24 HOURS FROM REMOVAL OF THE WET CURE TO SAW THE LONGITUDINAL GROOVES AND REAPPLY THE MEMBRANE-CURING COMPOUND.

REVISIONS TO 848.27 AND 848.29: THE CONTRACTOR SHALL CONTINUE THE WET CURE FOR THE MAXIMUM NUMBER OF HOURS POSSIBLE DURING THE PERMITTED LANE CLOSURE. THE CLOCK STARTS FOR THE WET CURE WHEN THE OVERLAY PLACEMENT IS COMPLETE.

IF THE CONTRACTOR FAILS TO OPEN LANES TO TRAFFIC AT THE TIMES REQUIRED IN THE MAINTENANCE OF TRAFFIC GENERAL NOTES, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE AS SHOWN ON THE LANE VALUE CONTRACT TABLE.

TRAFFIC WILL NOT BE PERMITTED ON THE FINISHED OVERLAY SURFACE UNTIL A MINIMUM WET CURE OF 12 HOURS, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 650 PSI.

FOR EACH POUR, THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 12 HOURS, 24 HOURS, 36 HOURS AND 48 HOURS.

PERFORM THE BEAM BREAK TESTS AND DOCUMENT THE TIME OF THE POUR, THE TIME OF THE BEAM BREAK TESTS AND THE MODULUS OF RUPTURE OF EACH BEAM.

REVISIONS TO 848.30: THE REMOVAL OPERATIONS SHALL NOT BEGIN IF SUSTAINED RAINS (5 HOURS OR MORE WITH BREAKS BETWEEN SHOWERS LESS THAN 1/2 HOURS) ARE PREDICTED WITHIN 48 HOURS OF COMMENCEMENT.

MEET THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS UNLESS A FOGGING SYSTEM AS DESCRIBED BELOW IS UTILIZED.

A WATER FOG SHALL BE CONTINUOUSLY APPLIED OVER THE SURFACE OF THE FRESHLY PLACED CONCRETE IN SUCH A MANNER THAT THE ENTIRE SURFACE IS KEPT AT A RELATIVE HUMIDITY OF 90% OR GREATER. THE AREA TO BE FOGGED SHALL BE THE ENTIRE AREA OF THE FRESHLY PLACED CONCRETE. WHICH HAS NOT HAD A FINAL FINISH APPLIED. THIS FOG SHALL BE DELIVERED THROUGH A NETWORK OF NOZZLES, WHICH ARE PROPERLY SPACED TO PROVIDE A UNIFORM FOG AT THE SURFACE OF THE CONCRETE. THE NOZZLES USED SHALL BE OF THE TYPE, WHICH ATOMIZES THE WATER SO THAT THERE ARE NO VISUALLY DISCERNIBLE DROPLETS OF WATER. THE FOGGING EQUIPMENT SHALL BE CAPABLE OF APPLYING WATER IN A MIST, NOT A SPRAY, TOO FINE TO DAMAGE THE CONCRETE SURFACE. THE AREA OF COVERAGE FROM EACH NOZZLE SHALL OVERLAP ALL ADJACENT COVERAGES BY ATLEAST 12 INCHES. IT SHALL BE DEMONSTRATED PRIOR TO THE PLACEMENT OF THE CONCRETE THAT THE INTENDED SYSTEM IS CAPABLE OF DELIVERING THE REQUIRED FOGGING ENVIRONMENT FOR AT LEAST TWICE THE ANTICIPATED REQUIRED TIME. THE INTENDED SYSTEM MUST BE PROPERLY FIELD TESTED. CARE SHALL BE EXERCISED DURING FINISHING TO PREVENT FOGGED WATER FROM BECOMING PART OF THE CONCRETE AND TO PREVENT INCREASING THE WATER CONTENT IN THE CONCRETE BY THE WATER USED DURING THE CURING PROCESS.

FOGGING SHALL CONTINUE UNTIL THE SURFACE IS COVERED WITH WET BURLAP. THE WET BURLAP SHALL NOT BE APPLIED UNTIL THE DECK CAN RECEIVE THE WET BURLAP AND ANY PLACEMENT LOADS WITHOUT DEFORMATION.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE SQUARE YARD CONTRACT PRICE FOR ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (2" THICK).

ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (VARIABLE THICKNESS), MATERIAL ONLY

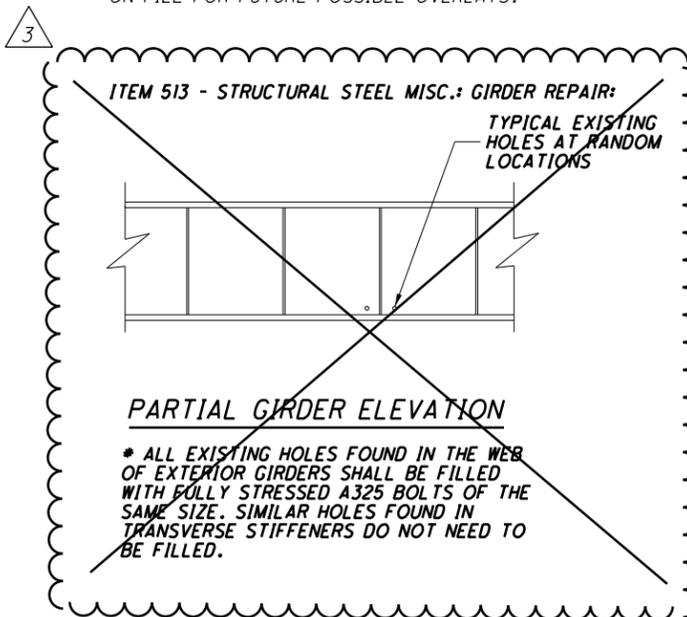
ALL REVISIONS LISTED IN ITEM 848 - SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (2" THICK) NOTE SHALL APPLY TO THIS ITEM AS WELL.

DOCUMENTATION OF VARIABLE DEPTH:

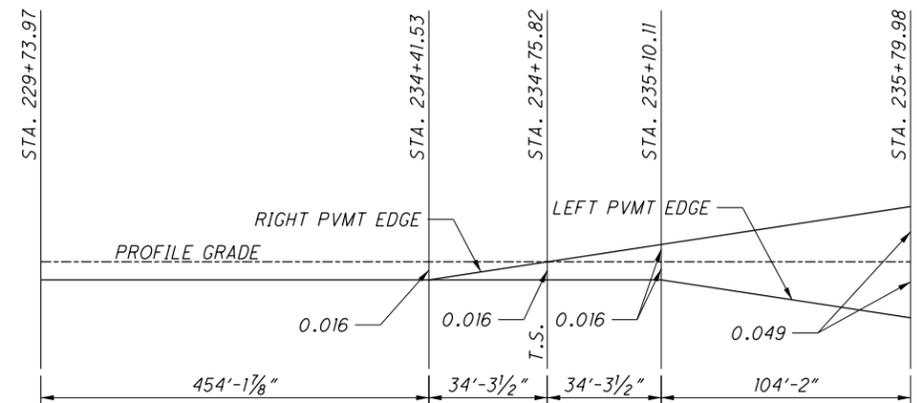
PRIOR TO POURING PROPOSED SDC OVERLAYS, THE PROJECT ENGINEER MUST DOCUMENT THE APPROXIMATE VARIABLE DEPTH LOCATIONS ON THE DECK AND TAKE PICTURES OF THESE LOCATIONS AND OTHER SIGNIFICANT FINDINGS. ADDITIONALLY, DOCUMENT THE AS BUILT OVERLAY THICKNESS AND TOTAL AMOUNT OF VARIABLE DEPTH USED. PROVIDE THIS DOCUMENTATION TO THE ODOT BRIDGE ENGINEER TO BE KEPT ON FILE FOR FUTURE POSSIBLE OVERLAYS.

ABBREVIATIONS:

- ABUT. - ABUTMENT
- A.S. - APPROACH SLAB
- BRG. - BEARING
- C/C - CENTER TO CENTER
- C.J. - CONSTRUCTION JOINT
- C.I.P. - CAST-IN-PLACE
- CONC. - CONCRETE
- CONST. - CONSTRUCTION
- DIA. - DIAMETER
- EL. - ELEVATION
- EX. - EXISTING
- EXP. - EXPANSION
- F.A. - FORWARD ABUTMENT
- F/F - FACE TO FACE
- FWD. - FORWARD
- IN. - INCH
- L.F. - LEFT FORWARD
- LT. - LEFT
- MID. - MIDDLE
- MIN. - MINIMUM
- NB - NORTHBOUND
- PROP. - PROPOSED
- R.A. - REAR ABUTMENT
- RT. - RIGHT
- SB - SOUTHBOUND
- SDC - SUPERPLASTICIZED DENSE CONCRETE
- SPA. - SPACES
- STA. - STATION
- SUPER. - SUPERSTRUCTURE
- T/T - TOE TO TOE
- TYP. - TYPICAL
- VERT. - VERTICAL
- W/ - WITH



DATE	DESCRIPTION
2/6/23	NOTE REMOVED



PAVEMENT TRANSITION DETAIL
(NOT TO SCALE)

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