

# STRUCTURE GENERAL NOTES

ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRO-DEMOLITION (1 3/4"), AS PER PLAN

ITEM 848 - SURFACE PREPARATION USING HYDRO-DEMOLITION, AS PER PLAN

ITEM 848 - MICRO-SILICA MODIFIED CONCRETE OVERLAY USING (VARIABLE THICKNESS) MATERIAL ONLY, AS PER PLAN

ITEM 848 - FULL DEPTH REPAIR, AS PER PLAN

ITEM 848- EXISTING CONCRETE OVERLAY REMOVED (1/4" LATEX SCRUB), AS PER PLAN

THESE ITEMS SHALL BE PERFORMED AS PER SUPPLEMENTAL SPECIFICATION 848 "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRO-DEMOLITION" WITH THE FOLLOWING REVISIONS.

(SEE 848.18) THE REMOVAL OPERATIONS SHALL NOT BEGIN IF SUSTAINED RAINS (5 HOURS OR MORE WITH BREAKS BETWEEN SHOWERS LESS THAN 1 1/2 HOURS) ARE PREDICTED WITHIN 48 HOURS OF COMMENCEMENT.

(SEE 848.21) THE FINAL SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY. THE HAND CHIPPING ITEM, IF INCLUDED IN THE PLANS, IS FOR THE PURPOSE OF CHIPPING AREAS WHERE THE HYDRO-DEMOLITION MACHINE DOES NOT HAVE ACCESS. IF THE DESIRED DEPTH IS ACHIEVED BY HYDRO-DEMOLITION, NO FURTHER REMOVAL IS NECESSARY.

(SEE 848.23) FULL DEPTH REPAIR IS REQUIRED IF LESS THAN ONE HALF OF THE ORIGINAL DECK CONCRETE THICKNESS IS SOUND. CONCRETE DECK AND ABUTMENT REPAIR ADJACENT TO THE EXPANSION JOINTS SHALL BE INCLUDED WITH THE FULL DEPTH REPAIR ITEM.

(SEE 848.29) THE WET CURE TIME IS REDUCED FROM 72 HOURS TO 24 HOURS OR UNTIL A BEAM BREAK OF 600 PSI IS ACHIEVED, WHICHEVER IS GREATER. AFTER THE 24 HOUR WET CURE, THE FINISHED OVERLAY SURFACE SHALL BE CURED BY SPRAYING A UNIFORM APPLICATION OF CURING MATERIAL 705.07, TYPE 1 OR ID, AS PER CMS 511.14 METHOD (B) MEMBRANE CURING. IF THE CURING COMPOUND CAN NOT BE PLACED WITHIN THE SAME SHORT TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, AND SHALL, AT THE NEXT AVAILABLE SHORT TERM CLOSURE PERIOD, APPLY THE MEMBRANE CURING COMPOUND.

(SEE 848.29) TRAFFIC WILL NOT BE PERMITTED ON THE FINISHED OVERLAY SURFACE UNTIL AFTER THE COMPLETION OF THE 24 HOUR WET CURE, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 600 PSI.

(SEE 848.30) THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. THEY ARE NOT IN EFFECT FROM 11:00 PM TO 9:30 AM.

(SEE 848.30) OVERLAYS MAY BE PLACED AFTER OCTOBER 15, BUT NO OVERLAY SHALL BE PLACED AFTER NOVEMBER 13.

(SEE 848.31) FOR EACH PHASE, THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 12 HOURS, 24 HOURS, 36 HOURS, AND 48 HOURS. THE DEPARTMENT WILL PERFORM THE BEAM BREAK TESTS AND THE DOCUMENT THE TIME OF THE POUR, THE TIME OF THE BEAM BREAK TESTS, AND THE MODULUS OF RUPTURE FOR EACH BEAM UNTIL THE MODULUS OF RUPTURE OF TWO TESTS IS NOT LESS THAN 650 PSI. (TRAFFIC IS ALLOWED ON THE OVERLAY AT 600 PSI).

ALL OTHER REQUIREMENTS OF SS 848 REMAIN IN EFFECT.

ITEM 516 - VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN

THIS ITEM SHALL CONSIST OF ALL LABOR MATERIAL, FABRICATION, AND EQUIPMENT NECESSARY FOR THE STRUCTURAL EXPANSION JOINT AS DETAILED IN THE PLANS AND IN ACCORDANCE WITH EXJ-4-87. THIS INCLUDES THE LOW PROFILE STEEL RETAINERS, ELASTOMERIC STRIP SEALS, STEEL PLATES OR BARS AND POURED POLYURETHANE JOINT SEALER. THE EXPANSION JOINT RETAINER SHALL HAVE A HEIGHT OF 1 1/2". SPLICES IN THE STRUCTURAL STEEL EXPANSION JOINT SHALL BE FIELD WELDED. THE STRIP SEAL OR NEOPRENE GLAND SHALL BE CONTINUOUS ACROSS THE BRIDGE DECK. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID PER LINEAR FOOT OF JOINT FOR ITEM 516 - VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN.

## ESTIMATED QUANTITIES

| ITEM    | ITEM EXTENSION | SB BRIDGE | NB BRIDGE | NHS  | STP | TOTAL | UNIT   | DESCRIPTION   | AS PER PLAN SHEET NO. |
|---------|----------------|-----------|-----------|------|-----|-------|--------|---|-----------------------|
| 516     | 11801          | 80        | 80        | 160  |     | 160   | LIN FT | VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN                           | 3 OF 4                |
| SPECIAL | 5300/1300      | 274       | 274       | 548  |     | 548   | LIN FT | STRUCTURE MISC.: SEALING OF CONCRETE WEARING SURFACE CONSTRUCTION JOINTS WITH HMWM      | 2 OF 4                |
| 848     | 10001          | 1125      | 1125      | 2250 |     | 2250  | SQ YD  | MICRO-SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (1 3/4"), AS PER PLAN      | 3 OF 4                |
| 848     | 20001          | 1125      | 1125      | 2250 |     | 2250  | SQ YD  | SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN                                  | 3 OF 4                |
| 848     | 30001          | 55        | 55        | 110  |     | 110   | CU YD  | MICRO-SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN | 3 OF 4                |
| 848     | 50000          | 5         | 5         | 10   |     | 10    | SQ YD  | HAND CHIPPING *   |                       |
| 848     | 50100          | LUMP      | LUMP      | LUMP |     | LUMP  |        | TEST SLAB   |                       |
| 848     | 50201          | 10        | 10        | 20   |     | 20    | CU YD  | FULL-DEPTH REPAIR, AS PER PLAN *  | 3 OF 4                |
| 848     | 50321          | 985       | 985       | 1970 |     | 1970  | SQ YD  | EXISTING CONCRETE OVERLAY REMOVED (1/4" LATEX SCRUB), AS PER PLAN                       | 3 OF 4                |

\* ALL OR A PORTION OF THIS QUANTITY IS SUBJECT TO NON-PERFORMANCE WITHOUT PENALTY TO THE STATE OF OHIO.

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DESIGN AGENCY: DISTRICT TWELVE  
 PRODUCTION DEPARTMENT  
 DATE: 02-23-01  
 REVISED: M/J M/J  
 STRUCTURE FILE NUMBER: 430273L/430276/R  
 DRAWN: M/J  
 CHECKED: BOS  
 DESIGNED: M/J  
 REVISIONS: M/J  
 STRUCTURE GENERAL NOTES - 2  
 BRIDGE NO. LAK-44-056 / L/R  
 S.R. 44 OVER CSXT  
 LAK-2-13.05/  
 LAK-44-4.14  
 3 / 4  
 88  
 93