(1) \$\$DATE\$\$
DGN-SPEC
MMO REV: MMO

DETAIL OF PRECAST CONCRETE BOX CULVERT M259

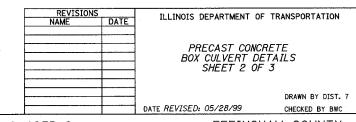
(WITH EQUAL TO OR GREATER THAN 2 FEET OF COVER)

AASHO DESIGNATION M259 (ASTM DESIGNATION C-789) DESIGN LOADING = HS20-44

EFFINGHAM 273 110 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

* 107WRS-1, 107BY, 107BY-1 & 107B-2 CONTRACT NO. 94827

| | CULVERT SIZE | DIMENSIONS | | | |
|--|-----------------|------------|----------------|--------------|----------|
| | SPANXRISE | Т | Α | В | С |
| | (FOOT) | (INCHES) | FT-IN | FT-IN | (INCHES) |
| | 2x2 3x2 | 4 | 2-8 3-8 | 2-8 2-8 | 4 4 |
| | 3x3 | 4 4 | 3-8 | 3-8 | 4 |
| | 4x2 | 5 | 4-10 | 2-10 | 5 |
| | 4 x 3 4 x 4 | 5 5 | 4-10 4-10 | 3-10 4-10 | 5 5 |
| | 5x2 | 6 | 6-0 | 3-0 | 6 |
| | 5x3 5x4 | 6 6 | 6-0 6-0 | 4-0 5-0 | 6 6 |
| | 5x5 | 6 | 6-0 | 6-0 | 6 |
| | 6x2 6x3 | 7 7 | 7-2 7-2 | 3-2 4-2 | 7 7 |
| | 6x4 | 7 | 7-2 | 5-2 | 7 |
| | 6x5 6x6 | -7 7 | 7-2 7-2 | 6-2 7-2 | 7 7 |
| | 7x4 | 8 | 8-4 | 5-4 | 8 |
| | 7x5 7x6 | 8 8 | 8-4 8-4 | 6-4 7-4 | 8 8 |
| | 7 <i>x</i> 7 | 8 | 8-4 | 8-4 | 8 |
| | 8x4 8x5 | <i>8</i> | 9-4 9-4 | 5-4 6-4 | 8 8 |
| | 8x6 | - 8 | 9-4 | 7-4 | 8 |
| | 8x7 8x8 | 8 8 | 9 - 4 9 - 4 | 8-4 9-4 | 8 8 |
| | 9x5 | 9 | 10-6 | 6-6 7-6 | 9 |
| | 9x6 9x7 | 9 | 10-6 10-6 | 8-6 | 9 |
| | 9x8 9x9 | 9 9 | 10-6 10-6 | 9-6 10-6 | 9 9 |
| | 10x5 | 10 | 11-8 | 6-8 | 10 |
| | 10×6 10×7 | 10 10 | 11-8 11-8 | 7-8 8-8 | 10 10 |
| | 10x8 | 10 | 11-8 | 9-8 | 10 |
| | 10x9 10x10 | 10 10 | 11-8 11-8 | 10-8 11-8 | 10 10 |
| | 11x4 | 11 | 12-10 | 5-10 | 11 |
| | 11x6 11x8 | 11 11 | 12-10 12-10 | 7-10 9-10 | 11 11 |
| | 11x10 | 11 | 12-10 | 11-10 | 11 |
| | 11x11 | 11 | 12-10 | 12-10 | 11 |
| | 12x4 12x6 | 12 12 | 14-0 14-0 | 6-0 8-0 | 12 12 |
| | 12x8 12x10 | 12 12 | 14-0 14-0 | 10-0 12-0 | 12 12 |
| | 12x12 | 12 | 14-0 | 14-0 | 12 |
| | <u>.</u> | I | ! | L | 1 |



GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD

THE TERMS As . As . AND AS DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASSHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASSHTO M55.

MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

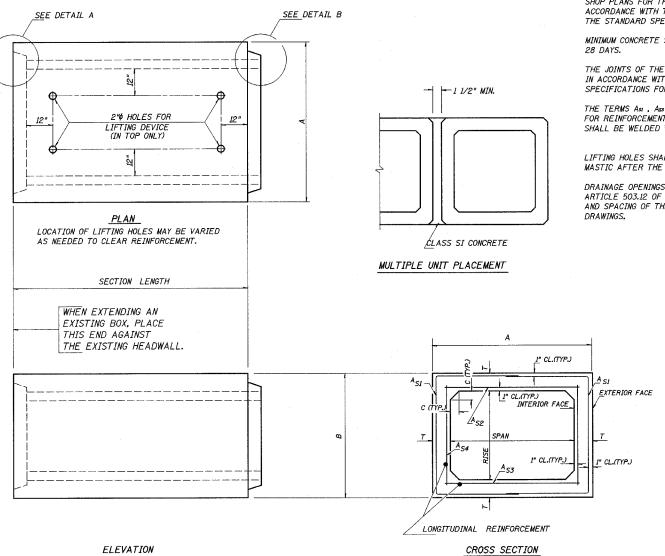
ARTICLE 503.12 OF THE STANDARD SPECIFICATIONS, LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP

ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04(a) OF THE STANDARD SPECIFICATIONS.

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH



/ 1" R

DETAIL B

(TYP. OUTLET END)

BLANK, WESSELINK, COOK & ASSOCIATES

DETAIL A

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.

(TYP. INLET END)

* THE D DIMENSION SHALL CONFORM TO THE

MANUFACTURER'S STANDARDS.

ENGINEERS - CONSULTANTS DECATUR, ILLINOIS F.A.P. 774 (IL RTE 32/33) SEC 107WRS-1, 107BY, 107BY-1 & 107B-2

EFFINGHAM COUNTY