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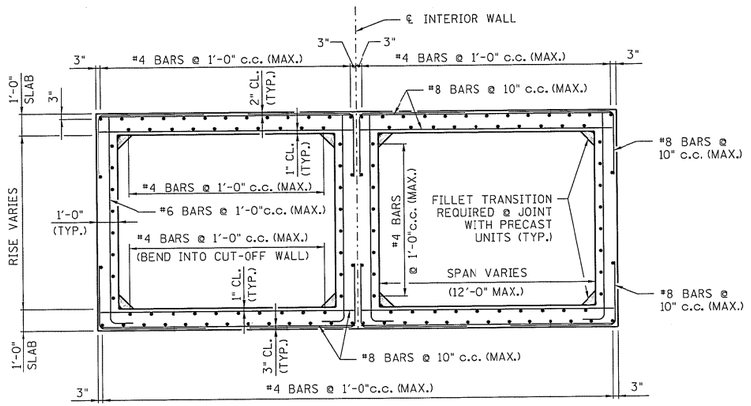
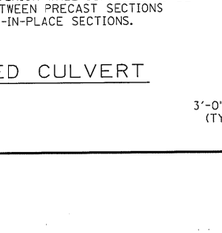


SECTION A - A

(SHOWING RECOMMENDED INSTALLATION OF MULTI-CELL LOCATIONS
SINGLE CELL INSTALLATION TO BE SIMILAR.)

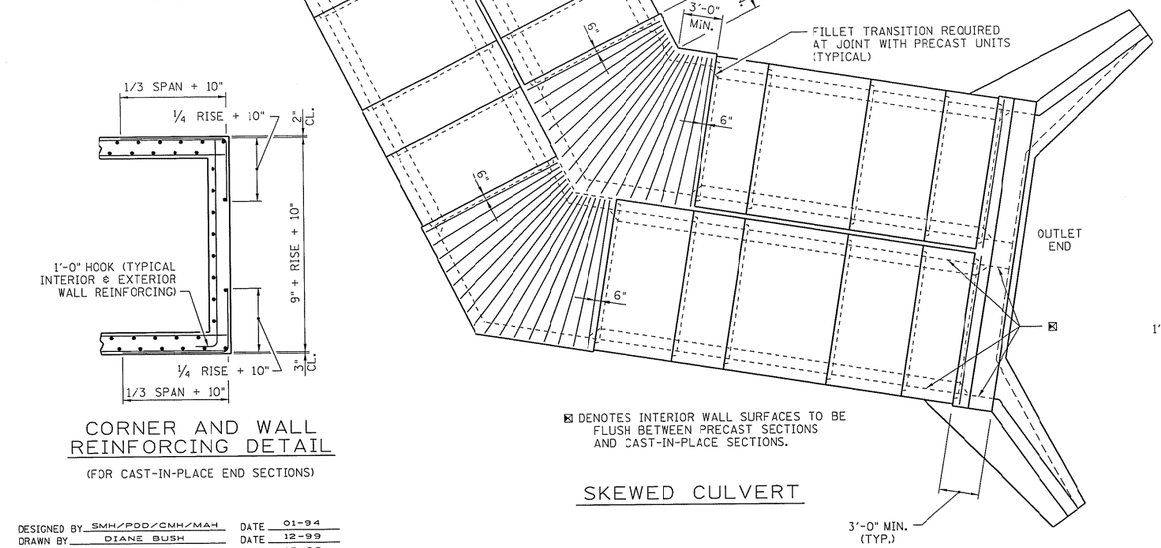


BUTYL RUBBER BASE (AASHTO M-189-TYPE B) OR APPROVED BITUMINOUS PLASTIC OR CEMENT MORTAR. (SUBSECTION 607.07 OF THE STANDARD SPECIFICATIONS)

TYPICAL JOINT DETAIL

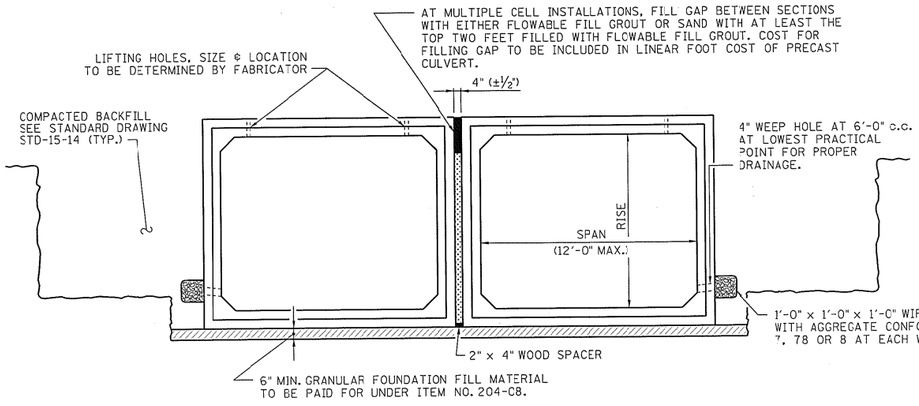
CORNER AND WALL REINFORCING DETAIL

(FOR CAST-IN-PLACE END SECTIONS)



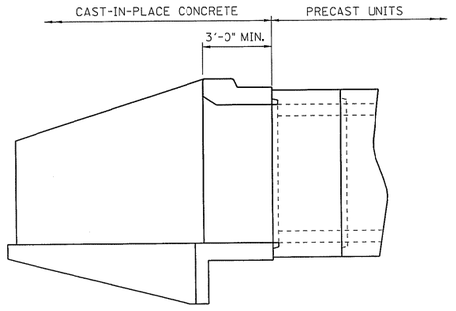
⊠ DENOTES INTERIOR WALL SURFACES TO BE FLUSH BETWEEN PRECAST SECTIONS AND CAST-IN-PLACE SECTIONS.

SKEWED CULVERT

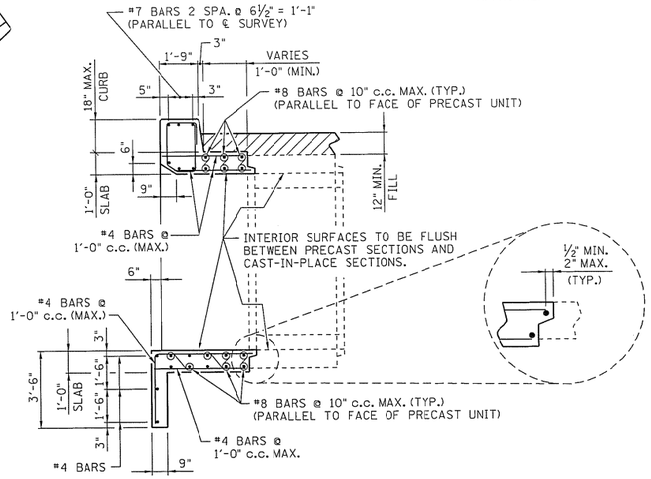


TYPICAL SECTION

(SHOWING RECOMMENDED INSTALLATION OF MULTI-CELL LOCATIONS.
SINGLE CELL INSTALLATION TO BE SIMILAR.)
FOR ADDITIONAL BOX CULVERT BACKFILL DETAILS SEE STANDARD DRAWINGS STD-15-14 ℄ 15.



SECTION B - B



CAST-IN-PLACE END SECTION

(INLET SHOWN, OUTLET SIMILAR)

GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (CURRENT EDITION)
LOADING: HS20-44
DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1996 EDITION WITH ADDENDA.
PRECAST UNITS SHALL BE LAID AND JOINED AS SPECIFIED IN SECTION 607.08 AND 607.07 OF THE TENNESSEE SPECIFICATIONS.
END SECTIONS FOR PRECAST UNITS SHALL BE CAST-IN-PLACE IN ACCORDANCE WITH PLANS DETAILS AND THE TENNESSEE STANDARD ROAD AND BRIDGE SPECIFICATIONS. COST TO BE INCLUDED IN LINEAR FOOT COST OF PRECAST CULVERT.
ALL PRECAST REINFORCED CONCRETE BOX CULVERTS SHALL CONFORM TO THE LATEST EDITION OF AASHTO M-259 OR M-259M FOR CULVERTS WITH FILL HEIGHTS 2 FEET OR GREATER OR AASHTO M-273 OR M-273M FOR CULVERTS WITH FILL HEIGHTS BETWEEN 1 FOOT AND 2 FEET. DETAILS NOT CONFORMING TO THESE STANDARDS SHALL BE SUBMITTED FOR APPROVAL ALONG WITH DESIGN CALCULATIONS USING "BOXCAR" OR OTHER APPROVED DESIGN PROGRAM. THE DESIGNS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN TENNESSEE.
JOINTS FOR PRECAST SECTIONS SHALL BE TONGUE AND GROOVE TYPE AND SHALL BE SEALED WITH MASTIC OR SAND/CEMENT GROUT.
LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.
WINGWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS. CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING NO. D-CE-3. FOR FILL HEIGHTS GREATER THAN 18 INCHES, USE THE 1'-9" CURB WIDTH SHOWN ABOVE.
A REINFORCING STEEL SCHEDULE AND PLAN OF PRECAST SECTION LOCATIONS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2000	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRECAST BOX CULVERT DETAILS

STANDARD REINFORCED CONCRETE BRIDGE BOX TYPE

2000

DESIGNED BY	SMH/PDD/CMH/MAH	DATE	01-94
DRAWN BY	DIANE BUSH	DATE	12-99
SUPERVISED BY	RLH/CMH/MAH	DATE	12-99
CHECKED BY		DATE	

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-25

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