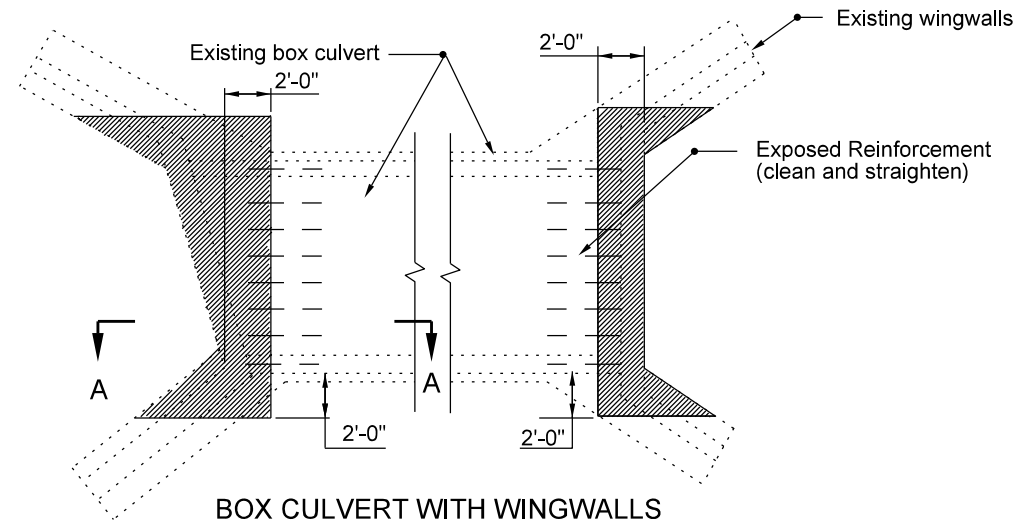
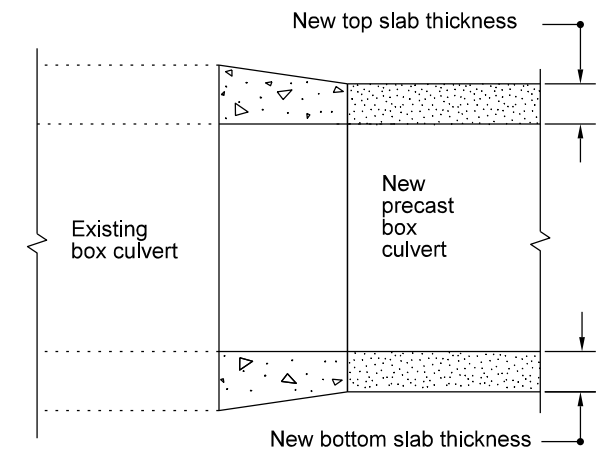


SECTION A-A CONNECTION VIEW


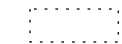



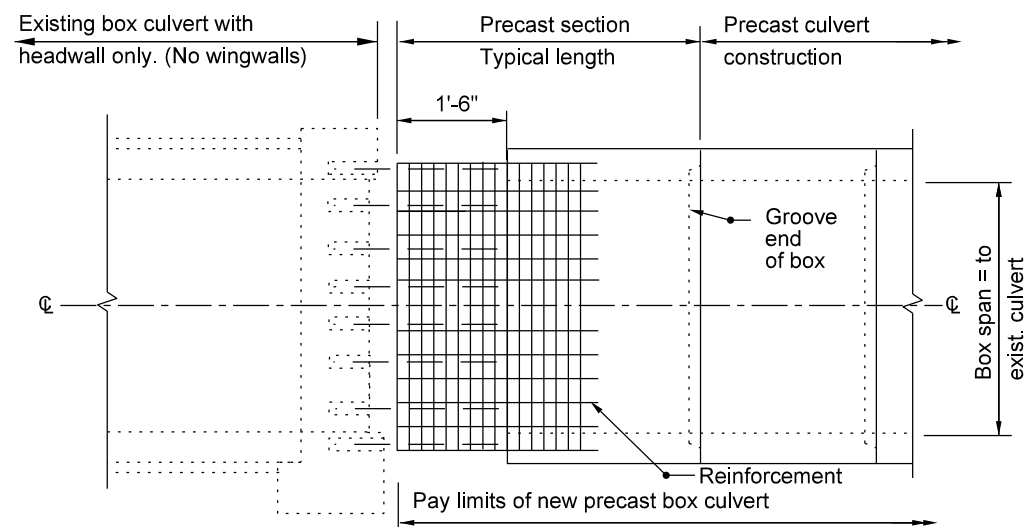
BOX CULVERT WITH WINGWALLS
EXTENSION PREPARATION



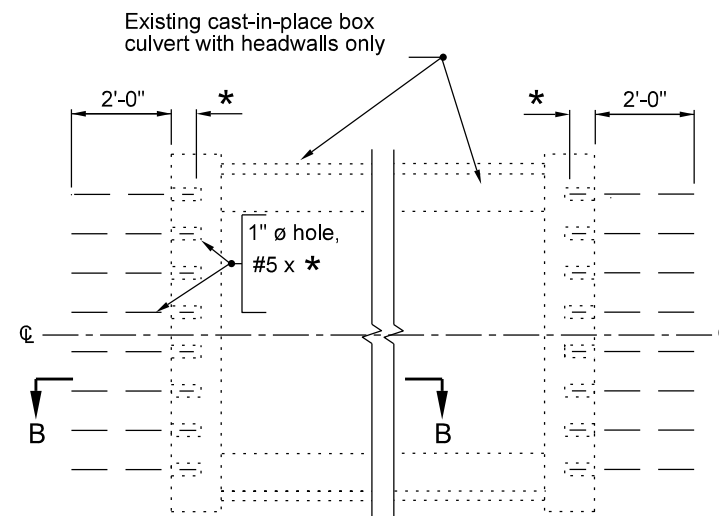
SECTION A-A AND B-B
(Showing cast-in-place section)

LEGEND :

-  Removal
-  Existing structure
-  New element or structure



SECTION B-B CONNECTION VIEW



BOX CULVERT WITH HEADWALLS ONLY
EXTENSION PREPARATION

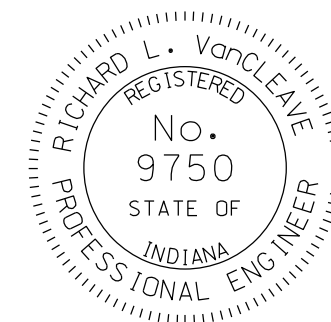
* length determined by manufacturer of chemical anchor system

INDIANA DEPARTMENT OF TRANSPORTATION

PRECAST BOX-CULVERT EXTENSION

SEPTEMBER 2010

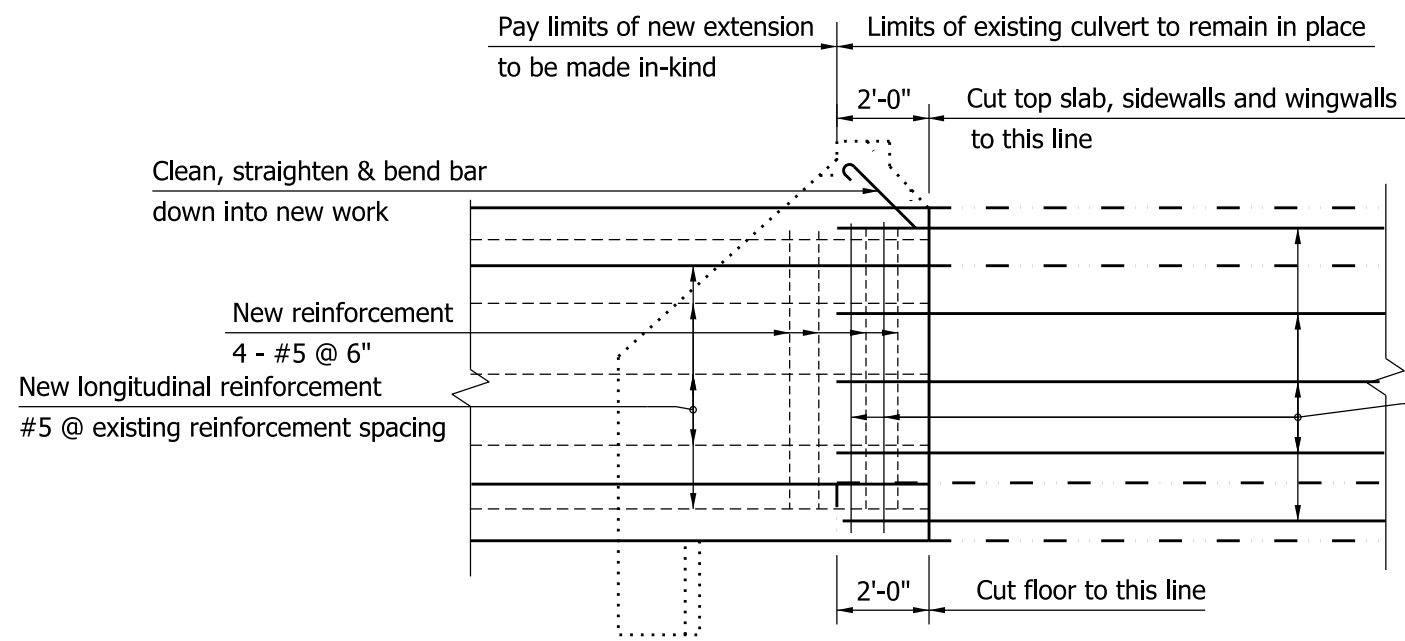
STANDARD DRAWING NO. E 714-BCEX-01



DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 09/01/10
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 09/01/10
CHIEF HIGHWAY ENGINEER DATE



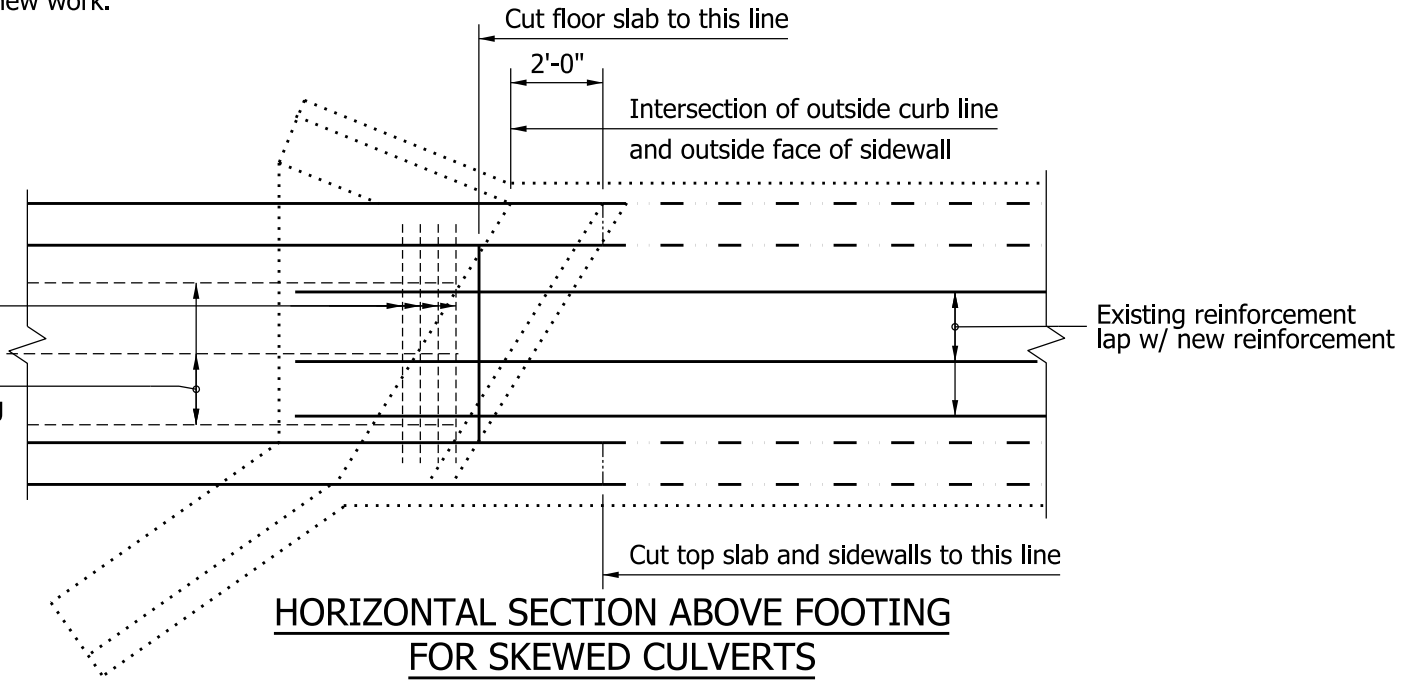
**LONGITUDINAL SECTION
FOR ALL CULVERTS**

All existing exposed longitudinal reinforcing and wall reinforcement shall remain in place and project into new work.

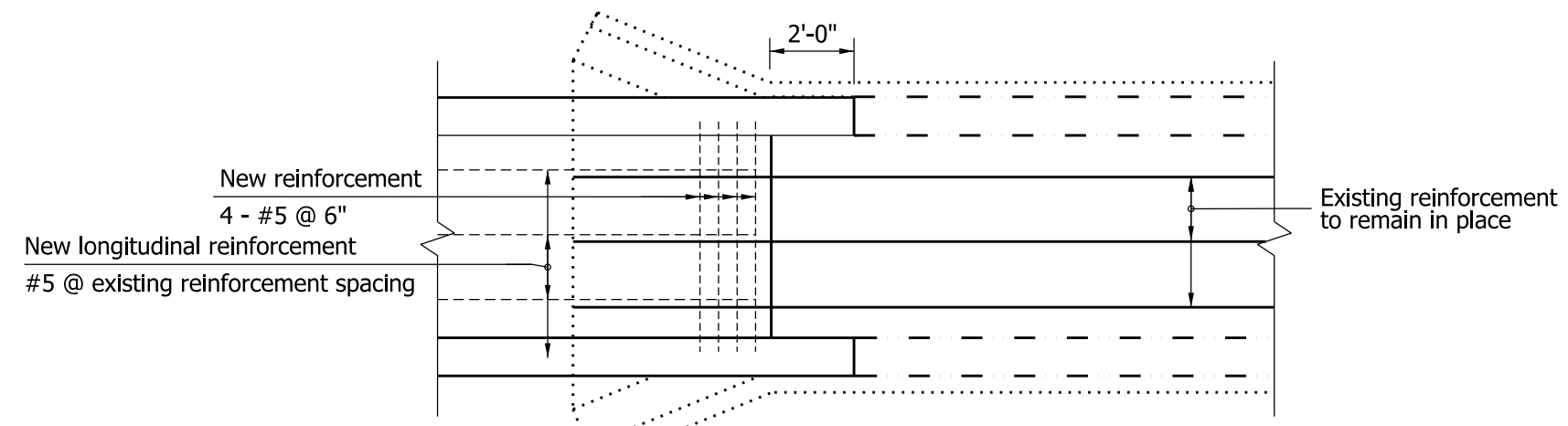
New reinforcement
4 - #5 @ 6"
New longitudinal reinforcement
#5 @ existing reinforcement spacing

NOTES:


1. Before removing existing concrete, saw around the perimeter of the removal areas on the interior and exterior of the culvert to a depth of 1".
2. New horizontal reinforcement shall be anchored into the culvert walls with bar hooks.



**HORIZONTAL SECTION ABOVE FOOTING
FOR SKEWED CULVERTS**



**HORIZONTAL SECTION ABOVE FOOTING
FOR SQUARE CULVERTS**

INDIANA DEPARTMENT OF TRANSPORTATION	
CAST-IN-PLACE BOX-CULVERT EXTENSION	
SEPTEMBER 2010	
STANDARD DRAWING NO.	E 714-BCEX-02
	<p><i>/s/ Richard L. VanCleave</i> 09/01/10 DESIGN STANDARDS ENGINEER DATE</p> <p><i>/s/ Mark A. Miller</i> 09/01/10 CHIEF HIGHWAY ENGINEER DATE</p>
DESIGN STANDARDS ENGINEER	