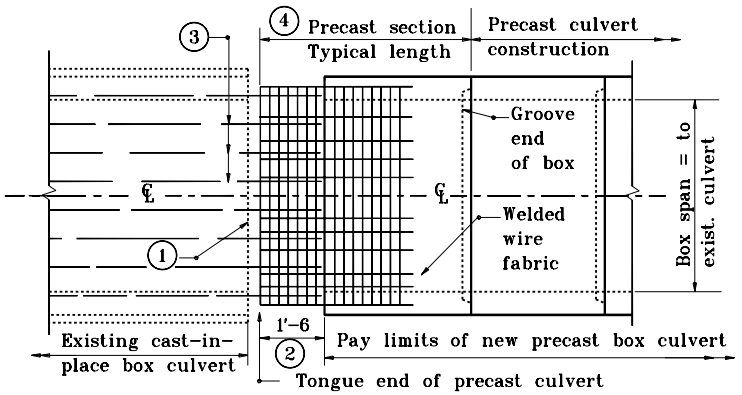
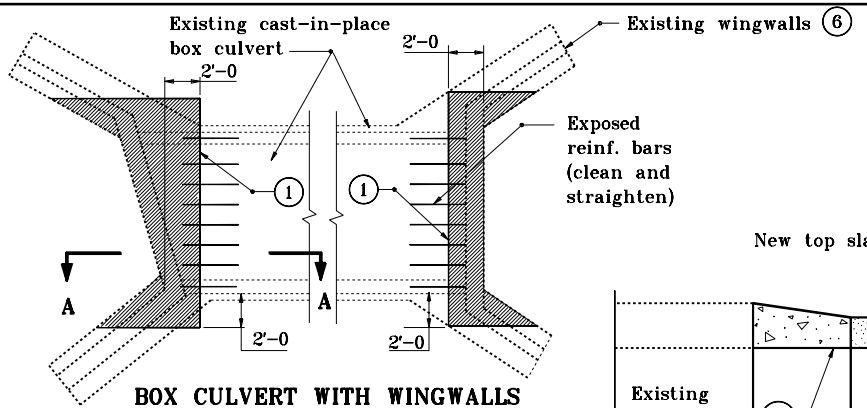
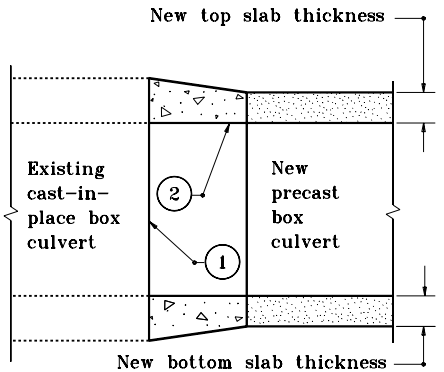


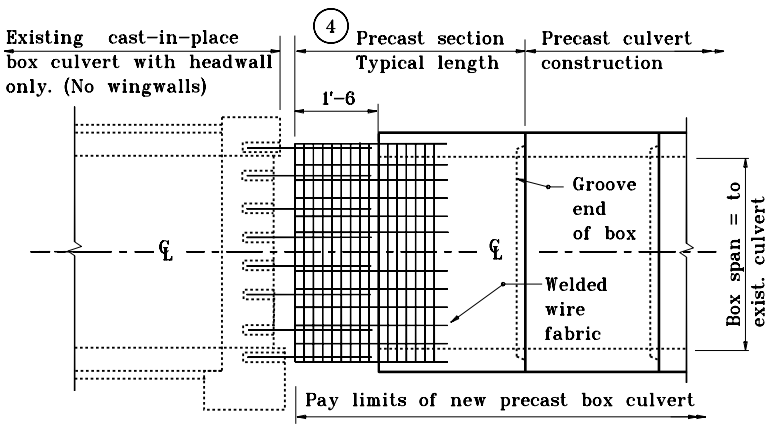

## SECTION A-A CONNECTION VIEW



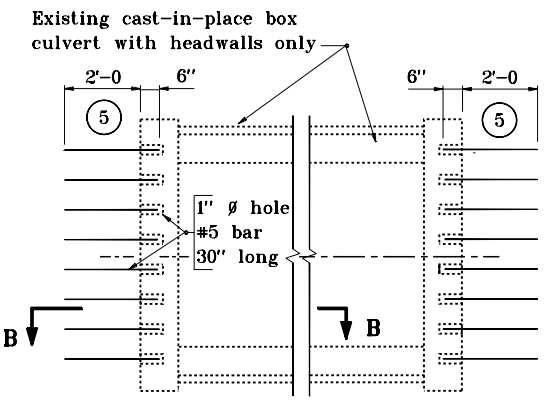

## BOX CULVERT WITH WINGWALLS EXTENSION PREPARATION




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




## SECTION B-B CONNECTION VIEW




## BOX CULVERT WITH HEADWALLS ONLY EXTENSION PREPARATION

## LEGEND :

- Removals
- Existing structures
- New elements or structures

## NOTES:

1. Before removing existing concrete, saw around the perimeter of the removal area on the interior and exterior of the culvert barrel a depth of 1".
2. Exposed longitudinal steel in existing culvert shall be lapped 1'-6 with exposed mesh in precast box culvert.
3. Clean and straighten old bars in sidewalls, top and bottom slabs. Cut existing bars off 1" from face of precast element.
4. Reinforcing mesh in the precast box culvert shall be exposed on the tongue end of box. Box culvert with exposed welded wire fabric for 1'-6 length shall be special order.
5. The holes for dowels shall be drilled along the perimeter of existing headwall a minimum of 6" into old concrete and the dowels firmly set in an approved chemical anchor system.
6. Remove existing wings as necessary.

INDIANA DEPARTMENT OF TRANSPORTATION

# PRECAST BOX CULVERT EXTENSION

JANUARY 1998

STANDARD DRAWING NO. E 714-BCEX-01

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

| | |
|---|---|
| DETAILS PLACED IN THIS FORMAT | 11-15-99 |
| /s/ Anthony L. Uremovich<br>DESIGN STANDARDS ENGINEER | 11-15-99<br>DATE |
| /s/ Firooz Zandi<br>CHIEF HIGHWAY ENGINEER | 11-15-99<br>DATE |
| ORIGINALLY APPROVED | 1-02-98 |