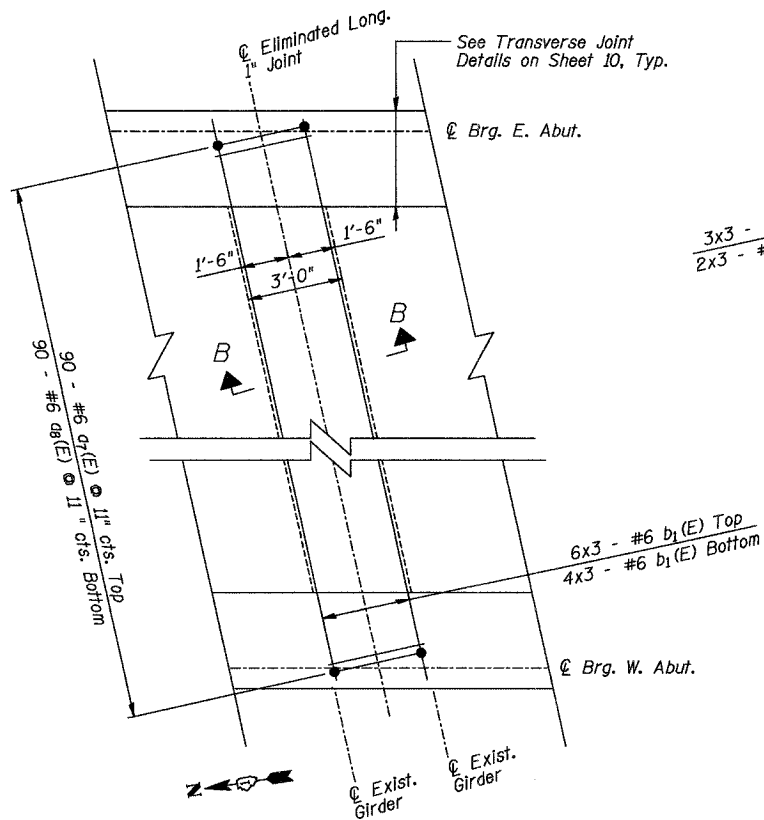
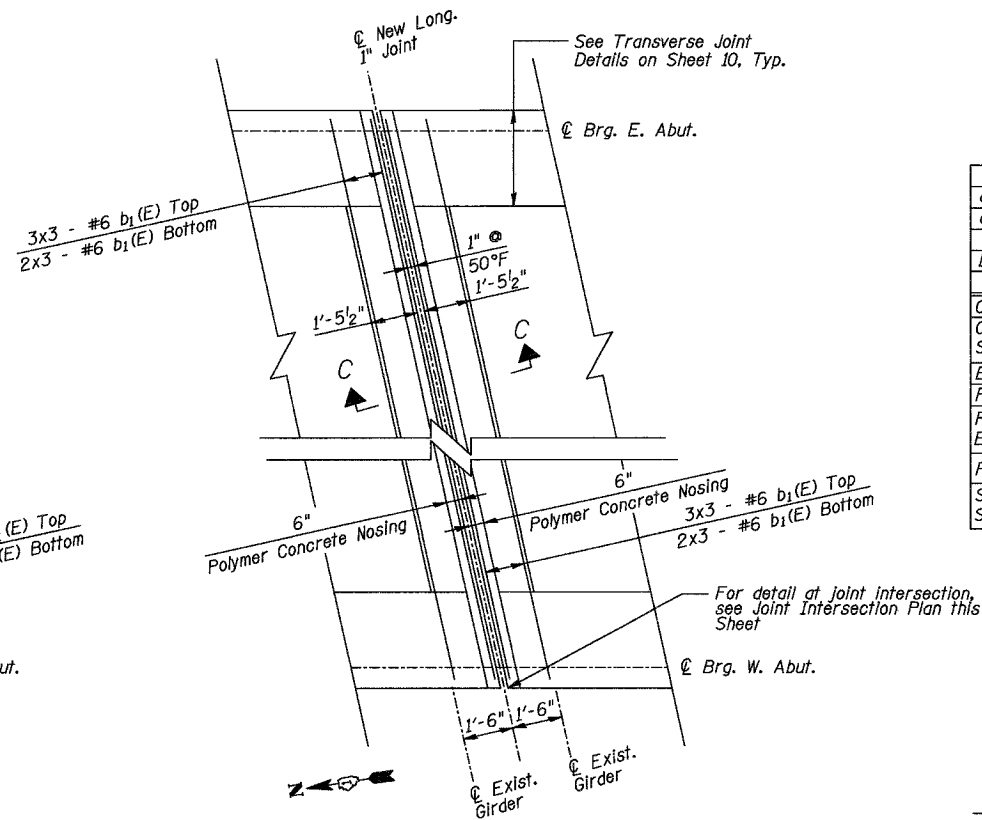


CONCRETE REMOVAL @ EXIST. LONG. JOINT PLAN
(Applicable at North & South Longitudinal Joints)
(Existing)



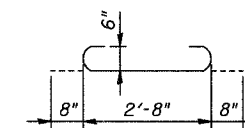
LONGITUDINAL JOINT ELIMINATION PLAN
(Applicable at North Longitudinal Joint)



LONGITUDINAL JOINT REPLACEMENT PLAN
(Applicable at South Longitudinal Joint)

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a ₇ (E) | 90 | #6 | 2'-8" | — |
| a ₈ (E) | 90 | #6 | 4'-0" | ⊔ |
| b ₁ (E) | 60 | #6 | 29'-0" | — |
| Concrete Removal | | | Cu. Yd. | 12.0 |
| Concrete Superstructure | | | Cu. Yd. | 10.5 |
| Bridge Deck Grooving | | | Sq. Yd. | 45 |
| Protective Coat | | | Sq. Yd. | 49 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 3,520 |
| Polymer Concrete | | | Cu. Ft. | 14 |
| Silicone Joint Sealer, 1" | | | Foot | 83 |



BAR a₈(E)

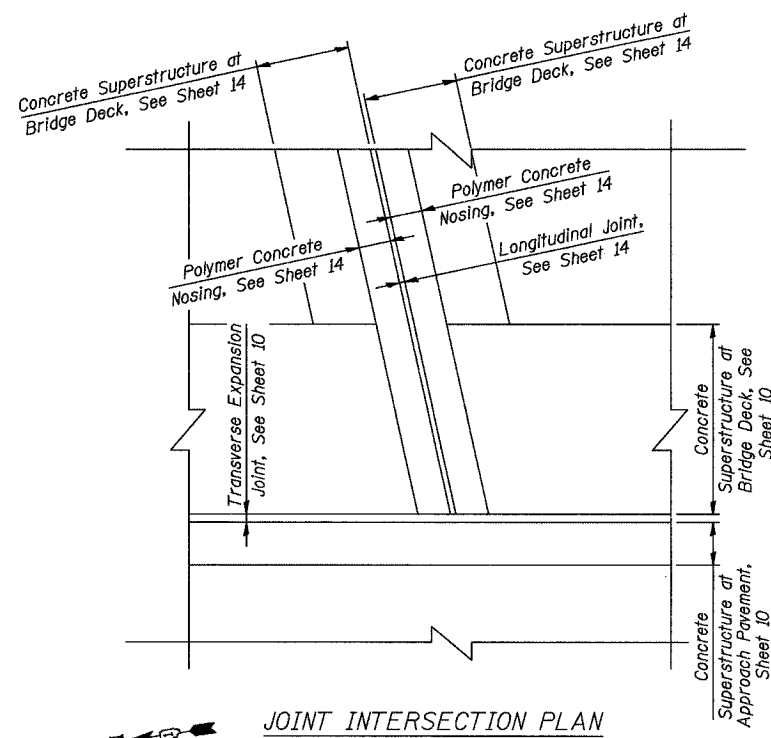
NOTES:

- Exist. reinforcement bars & shear studs extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Any shear studs that are damaged during concrete removal shall be replaced with approved equal. Cost included with Concrete Removal.
- For Sections A-A, B-B, & C-C, see Sheet 14.
- Bars indicated thus 6x3 - #6 etc. indicates 6 lines of bars with 3 lengths per line.
- Minimum lap lengths:

| Bar Size | Lap |
|----------|-------|
| #6 | 2'-7" |

LEGEND

⊔ - Concrete Removal



JOINT INTERSECTION PLAN
(West Abut. shown. East Abut. similar)

| | |
|----------|--------|
| DESIGNED | S.D.H. |
| CHECKED | J.A.Z. |
| DRAWN | M.S.M. |
| CHECKED | S.D.H. |

LONGITUDINAL JOINT DETAILS I
FAP 541 (GRAND AVE.) OVER
IL RTE. 137 (AMSTUTZ EXPY.)
SECTION 9 HB-I-1
LAKE COUNTY
STATION 6+46.04
S.N. 049-0118
DATE: 03-27-08
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
CHICAGO ILLINOIS