INTEGRAL ABUTMENT CONSTRUCTION PROCEDURE

ADJACENT PRESTRESSED CONCRETE SUPERSTRUCTURE:

1. For wide bearings over 150 ft, the prestressed half to a depth of 6 ft, extend the seat at the maximum specified in the foundation notes.
2. Drive piles and cut off piles at elevations shown.
3. Backfill holes with sand meeting the requirements of NYS Material Specification R1-900.5. Sand shall be placed to a depth of full form, check form under the prestressed units, and sand placed to a depth of full form under the prestressed units. High range water reducers (super plasticizer) may be added only for the remainder of the abutment pour, up to the top of the bridge seat.

BEARING PAD:

1. Place top of integral abutment concrete.
2. Provide reinforcement between prestressed tendons.
3. Place prestressed units on bearings.
4. Place class of concrete above bridge seat elevation for the full extent of the abutment.
5. Place bearing pads as shown.
6. Place bond breaker as shown.
7. Place stop or slope protection.
8. Place prestressed units on bearings.
9. Place prestressed units on bearings.
10. Place bearing pads as shown.
11. Place bond breaker as shown.
12. Place prestressed units on bearings.
13. Place bond breaker as shown.

ADJACENT BEAMS:

1. Fabricate and place reinforcement for the full extent of the abutment.
2. Place prestressed units on bearings.
3. Place bond breaker as shown.
4. Place prestressed units on bearings.
5. Place bond breaker as shown.
6. Place prestressed units on bearings.
7. Place bond breaker as shown.
8. Place prestressed units on bearings.
9. Place bond breaker as shown.
10. Place prestressed units on bearings.
11. Place bond breaker as shown.
12. Place prestressed units on bearings.
13. Place bond breaker as shown.

NOTES:

- B5 denotes epoxy-coated bars.
- BEARING PAD: To meet the requirements of NYS Material Specification R1-900.5.
- PRESTRESSED STRANDS: The strands shall be placed as shown.
- FORMING JOINTS: Use standard forming joint materials.
- EXTRICATION: Use standard extrication materials.
- EPOXY-COATED (E) BARS: Shown as E5 bars.

REMARKS:

- FOR USEFUL DETAIL SEE BD-ID7E.
- FOR ALL REQUIREMENTS SEE BD-ID8E.
- FOR JOINT RECESS DETAIL SEE BD-ID6E.
- FOR ATTACHMENT DETAIL SEE BD-ID5E.
- FOR WORKMANSHIP DETAIL SEE BD-ID4E.
- FOR REINFORCEMENT DETAIL SEE BD-ID3E.
- FOR MATERIAL SPECIFICATIONS SEE BD-ID2E.
- FOR FOUNDATION DETAIL SEE BD-ID1E.
- FOR BRIDGE SEAT DETAIL SEE BD-MS3.
- FOR EARTHWORK DETAILS SEE BD-ID3E.
- FOR JOINT DETAIL SEE BD-ID6E.
- FOR REINFORCEMENT DETAIL SEE BD-ID5E.
- FOR WORKMANSHIP DETAIL SEE BD-ID4E.
- FOR MATERIAL SPECIFICATIONS SEE BD-ID2E.
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