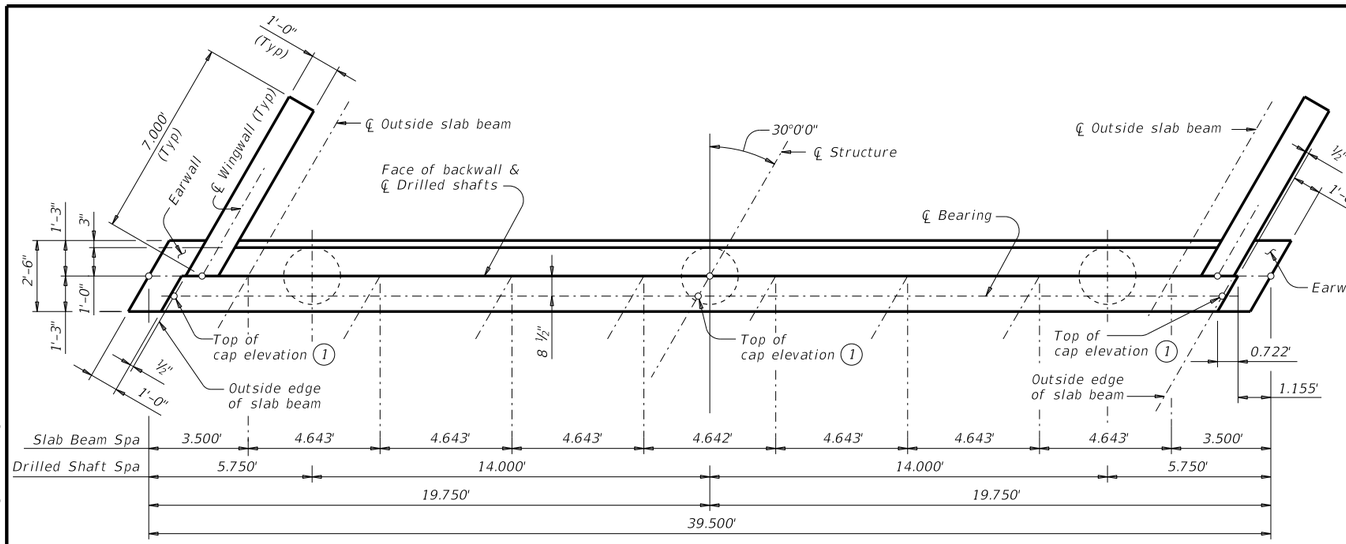
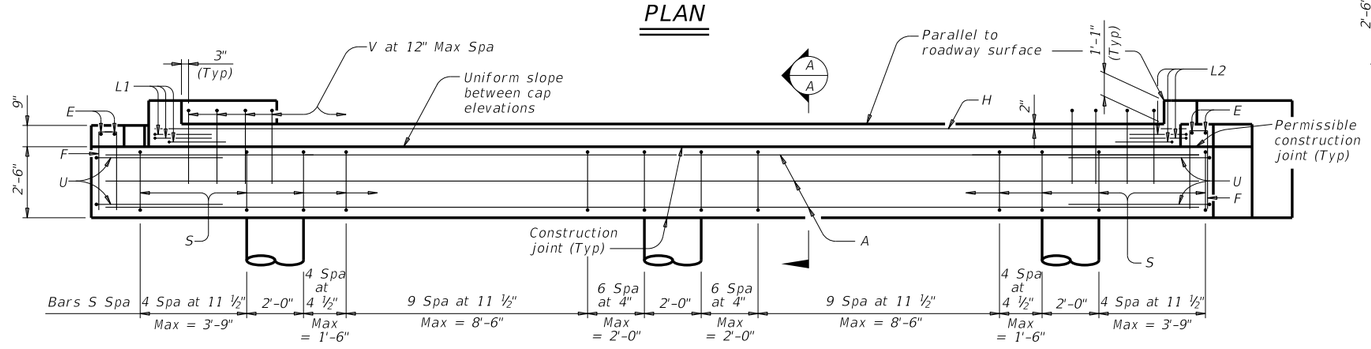
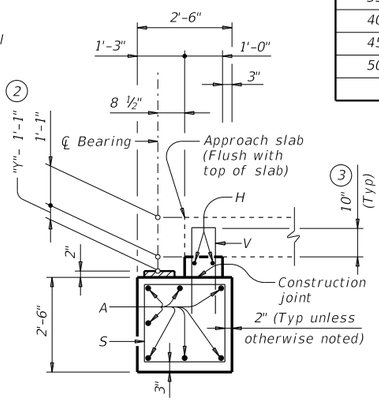
DATE:
FILE:




## PLAN

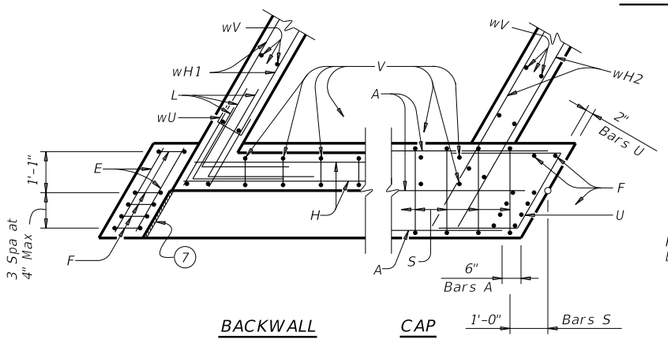



## ELEVATION



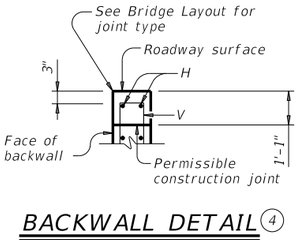

## SECTION A-A (4)

(With approach slab)
Note: At Contractor's option, backwall may be cast with approach slab.



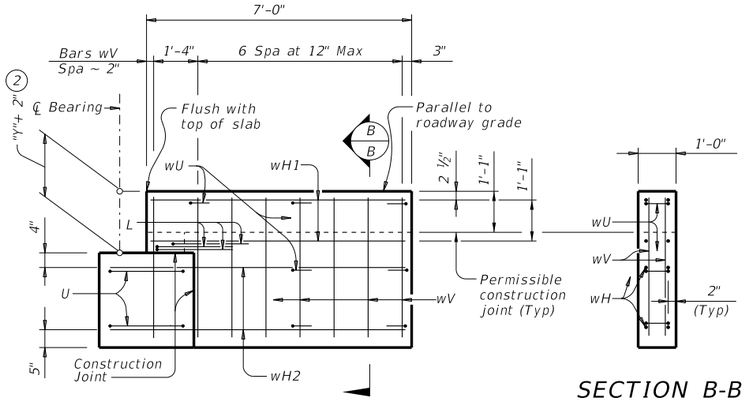

BACKWALL CAP

## CORNER DETAILS




## BACKWALL DETAIL (4)

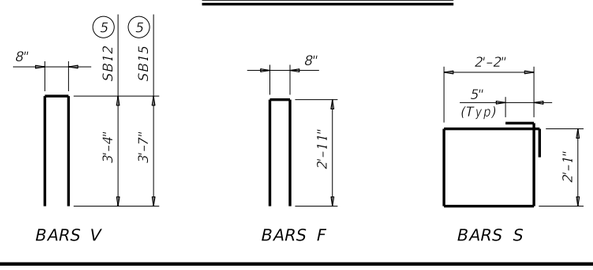
(Without approach slab)
Note: At Contractor's option, backwall may be cast in one lift to roadway surface.




## WINGWALL ELEVATION

(Earwall not shown for clarity.)

## SECTION B-B




## FOUNDATION LOADS

| Span Length | Drilled Shaft Loads | |
|---|---|---|
| Ft | Tons/DS | |
| | 4SB12 | 4SB15 |
| 25 | 44 | 47 |
| 30 | 49 | 53 |
| 35 | 54 | 58 |
| 40 | 59 | 63 |
| 45 | | 68 |
| 50 | | 73 |

## TABLE OF ESTIMATED QUANTITIES (6)

| Bar | No. | Size | Length (5) | | Weight (5) | |
|---|---|---|---|---|---|---|
| | | | 4SB12 | 4SB15 | 4SB12 | 4SB15 |
| A | 7 | #11 | 38'-6" | 38'-6" | 1,432 | 1,432 |
| E | 4 | #4 | 2'-6" | 2'-6" | 7 | 7 |
| F | 10 | #4 | 6'-6" | 6'-6" | 44 | 44 |
| H | 2 | #5 | 36'-9" | 36'-9" | 77 | 77 |
| L1 | 3 | #6 | 4'-0" | 4'-0" | 18 | 18 |
| L2 | 3 | #6 | 4'-0" | 4'-0" | 18 | 18 |
| S | 50 | #4 | 9'-4" | 9'-4" | 312 | 312 |
| U | 4 | #6 | 7'-5" | 7'-5" | 45 | 45 |
| V | 36 | #5 | 7'-4" | 7'-10" | 275 | 294 |
| wH1 | 8 | #6 | 6'-8" | 6'-8" | 80 | 80 |
| wH2 | 8 | #6 | 7'-11" | 7'-11" | 95 | 95 |
| wU | 14 | #4 | 1'-8" | 1'-8" | 16 | 16 |
| wV | 32 | #5 | 3'-10" | 4'-1" | 128 | 136 |
| | | | | | | |
| Reinforcing Steel | | | | Lb | 2,547 | 2,574 |
| Cl "C" Conc (Abut) | | | | CY | 12.1 | 12.6 |

(1) Top of cap elevations are based on section depths shown on Span Details.

(2) See Span Details for "Y".

(3) Increase as required to maintain 3" from finished grade.

(4) See Bridge Layout to determine if approach slab is present.

(5) See Bridge Layout for beam type used in the superstructure.

(6) Quantities shown are for one abutment only (with approach slab). Without approach slab, add 1.4 CY Class "C" concrete and 77 Lb reinforcing steel for 2 additional Bars H.

(7) ½" preformed bituminous fiber material between slab beam and earwall. Bond to earwall with an approved adhesive. Cast inside face of earwall perpendicular to cap. (Typ)

### GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.

Designed for a normal embankment header slope of 3:1 and a maximum span length of 50 feet.

See Bridge Layout for header slope and foundation type, size, and length.

See Common Foundation Details (FD) standard sheet for all foundation details and notes.

See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheet for riprap attachment details, if applicable.

See applicable rail details for rail anchorage in wingwalls.

Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.

These abutment details may be used with standard SPSB-30-30 only.

Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.

### MATERIAL NOTES:

Provide Class C concrete (f'c = 3,600 psi).

Provide Class C (HPC) concrete if shown elsewhere in the plans.

Provide Grade 60 reinforcing steel.

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

# ABUTMENTS

## PRESTR CONCRETE SLAB BEAM (DRILLED SHAFTS)

## 30' ROADWAY 30° SKEW

# APSBD-30-30

| FILE: psbste19-17.dgn | DN: TxDOT | CK: TxDOT | DW: TxDOT | CK: TxDOT |
|---|---|---|---|---|
| ©TxDOT January 2017 | CONT | SECT | JOB | HIGHWAY |
| REVISIONS | | | | |
| | DIST | COUNTY | | SHEET NO. |