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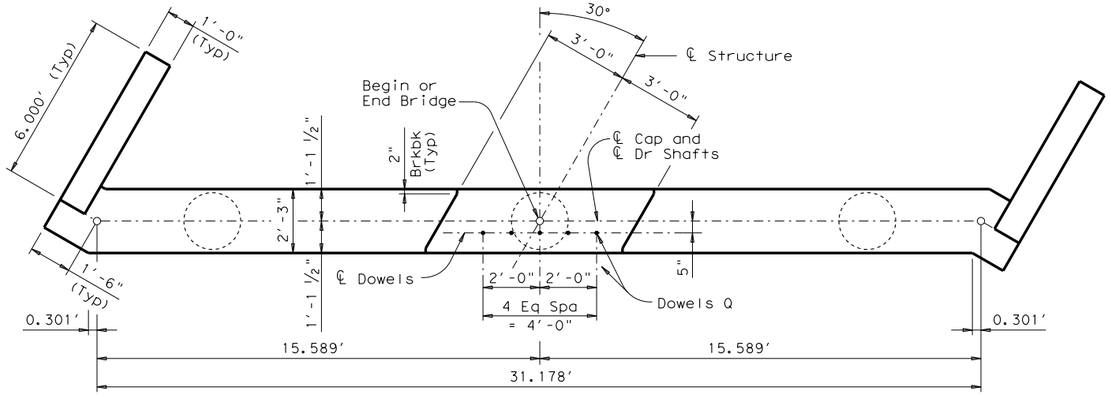
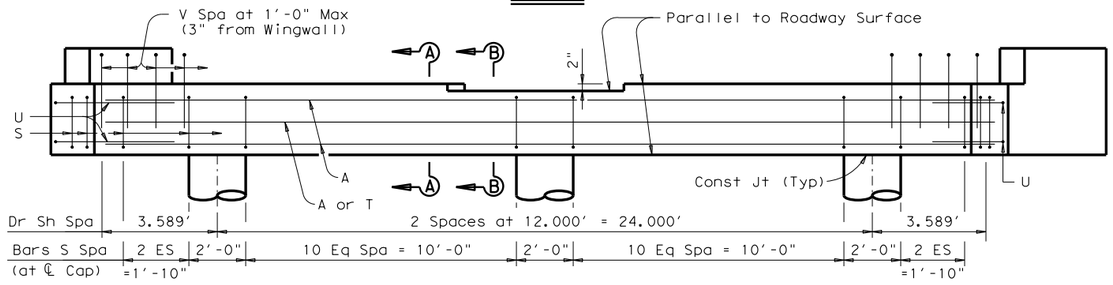
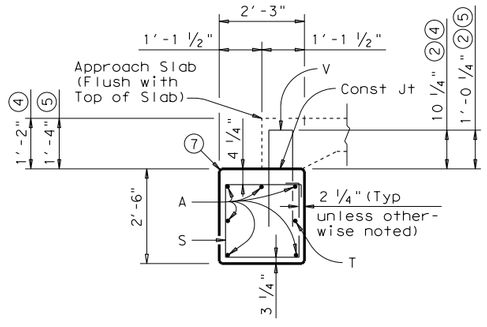
DATE:
FILE:




## PLAN

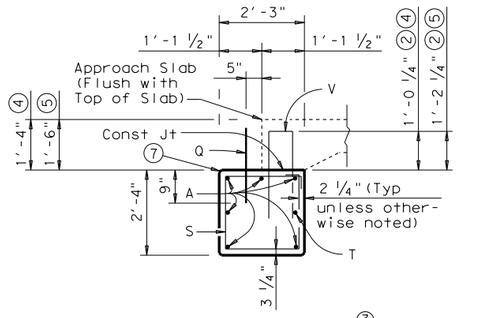



## ELEVATION ~ DRILLED SHAFT ABUTMENT




## SECTION A-A ③

(With Approach Slab)




## SECTION B-B ③

(With Approach Slab)

| TABLE OF ESTIMATED QUANTITIES ① | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14" SLAB | | | | | | 16" SLAB | | | | |
| Bar | No. | Size | Length | Weight | | Bar | No. | Size | Length | Weight |
| A | 6 | #11 | 31'- 2" | 994 | | A | 6 | #11 | 31'- 2" | 994 |
| Q | 5 | # 6 | 1'- 6" | 11 | | Q | 5 | # 6 | 1'- 6" | 11 |
| S | 32 | # 4 | 8'- 4" | 178 | | S | 32 | # 4 | 8'- 4" | 178 |
| T | 1 | # 5 | 31'- 2" | 33 | | T | 1 | # 5 | 31'- 2" | 33 |
| U | 4 | # 6 | 9'- 4" | 56 | | U | 4 | # 6 | 9'- 4" | 56 |
| V | 33 | # 5 | 5'- 4" | 184 | | V | 33 | # 5 | 5'- 8" | 195 |
| $wH_1$ | 8 | # 6 | 5'- 8" | 68 | | $wH_1$ | 8 | # 6 | 5'- 8" | 68 |
| $wH_2$ | 12 | # 6 | 6'-10" | 123 | | $wH_2$ | 12 | # 6 | 6'-10" | 123 |
| wU | 14 | # 4 | 1'- 7" | 15 | | wU | 14 | # 4 | 1'- 7" | 15 |
| wV | 28 | # 5 | 3'- 4" | 97 | | wV | 28 | # 5 | 3'- 6" | 102 |
| Reinforcing Steel | | | | Lb | 1,759 | Reinforcing Steel | | | | Lb | 1,775 |
| Class "C" Concrete | | | | CY | 8.4 | Class "C" Concrete | | | | CY | 8.5 |

① Quantities shown are for one Abutment only (with Approach Slab). With no Approach Slab, add 79 Lbs Total Reinforcing Steel for the following:
2 ~ #5 Bars H (31'-2")
2 ~ #5 Bars $M_1$ (3'-2")
2 ~ #5 Bars $M_2$ (3'-6")
Add the following amounts for concrete:
14" slab thickness add 1.6 CY Class "C" Concrete.
16" slab thickness add 1.8 CY Class "C" Concrete.

② Increase as required to maintain 3 3/4 " from Finished Grade.

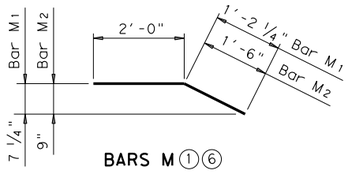
③ See Layout to determine if Approach Slab is present.

④ Use with 14" slab thickness.

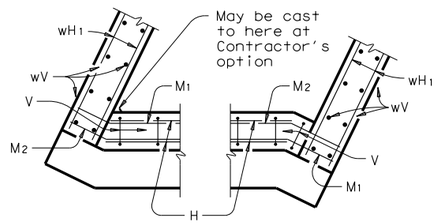
⑤ Use with 16" slab thickness.

⑥ Omit Bars H and M if Approach Slab is present.

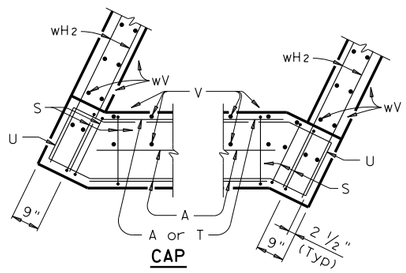
⑦ See standard CS-MD for Preformed Bituminous Fiber Material.




BARS M ① ⑥

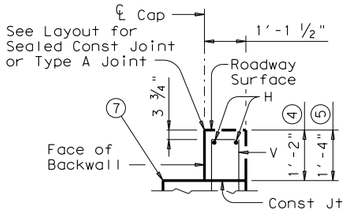



BACKWALL ③ ⑥



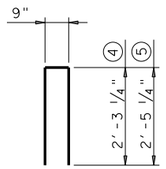

CAP

## CORNER DETAILS

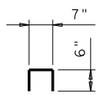



## BACKWALL DETAIL ③

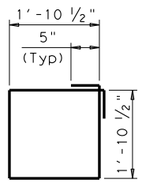
(Without Approach Slab)



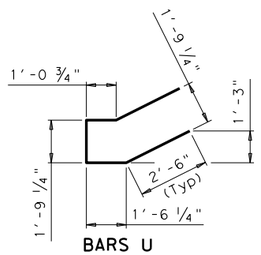

BARS V



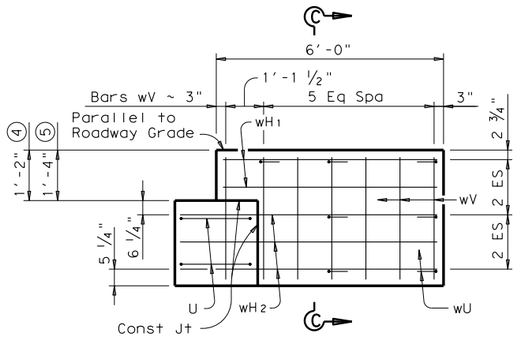

BARS wU



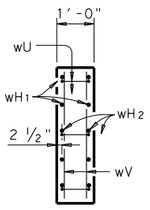

BARS S




BARS U




WINGWALL ELEVATION




SECTION C-C

GENERAL NOTES:
Designed according to AASHTO LRFD Specifications.
Details shown are for right forward skew. See layout for actual skew direction.
All cap and wall reinforcing shall be Grade 60.
Concrete strength f'c = 3,600 psi.
Designed for normal embankment header slope of 3:1.
See Layout for foundation size and length.
See standard FD for foundation details and notes.
See standard CS-MD for joint details and details not shown.
Calculated Foundation Loads: 40 Tons/Drilled Shaft.
These abutment details may be used with standards CS-25-28, CS-50-28-30, CS-75-28-30 and CS-80-28-30 only.

*HL93 LOADING*

Texas Department of Transportation

**Bridge Division Standard**

# ABUTMENTS FOR C-I-P CONC SLAB SPANS (DRILLED SHAFTS)

## 28 FT ROADWAY 30° SKEW

## ACSD-28-30

| FILE: acs07ste.dgn | DN: TxDOT | CK: TxDOT | DW: TxDOT | CK: TxDOT |
|---|---|---|---|---|
| ©TxDOT March 2009 | CONT | SECT | JOB | HIGHWAY |
| REVISIONS | DIST | COUNTY | | SHEET NO. |