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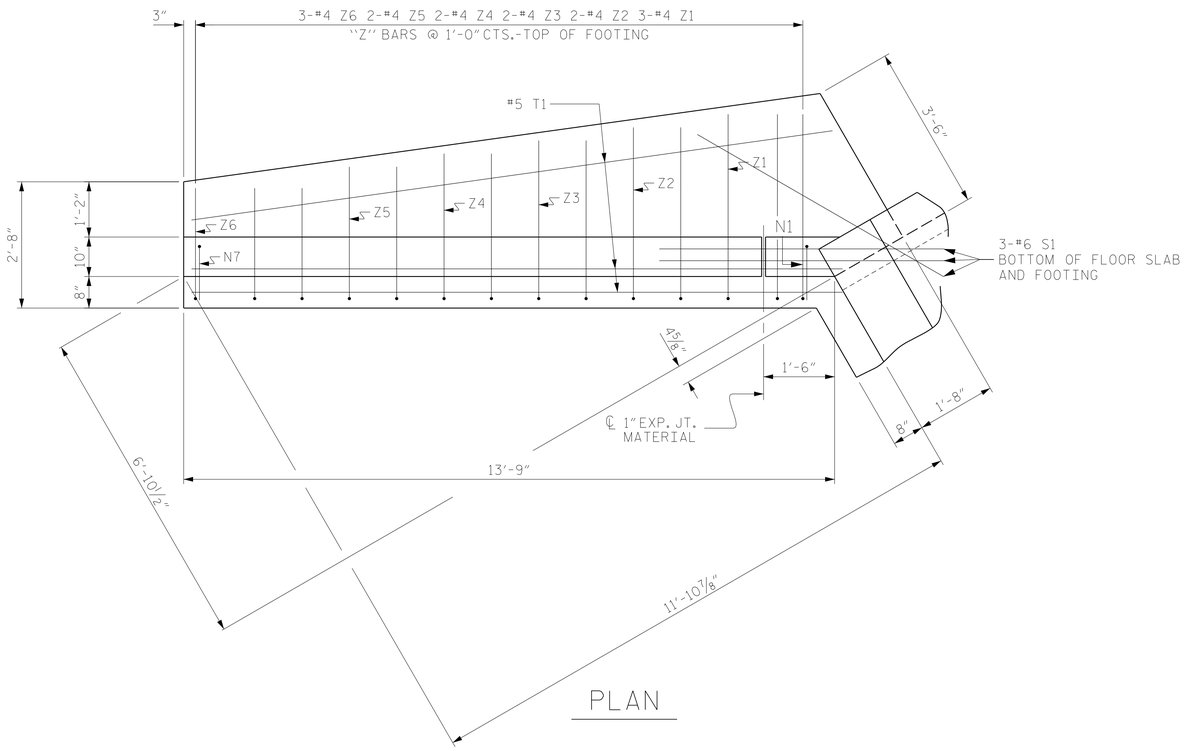
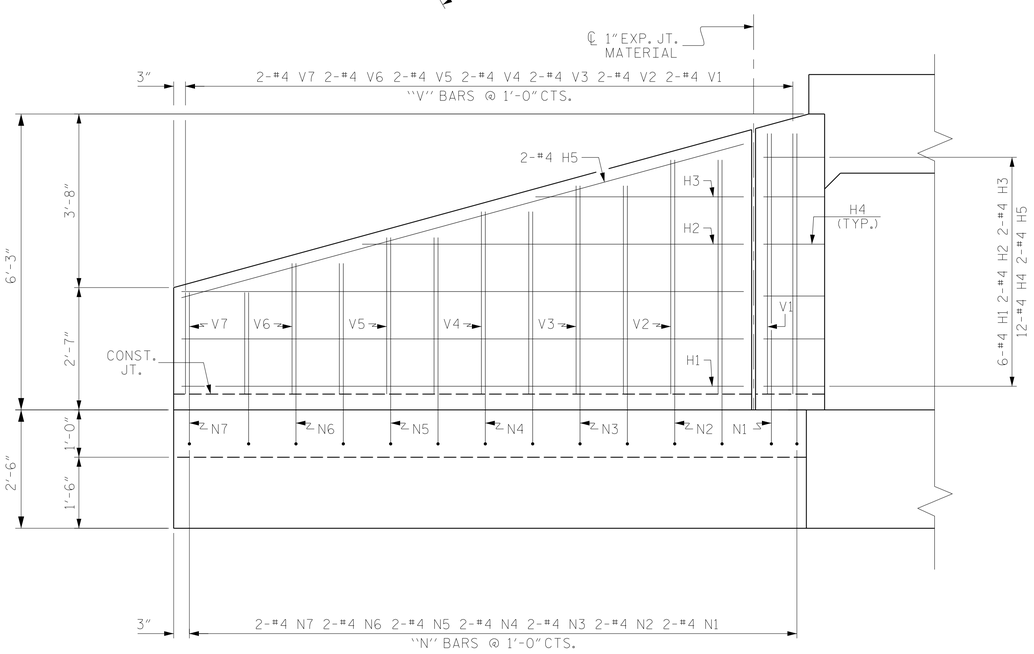
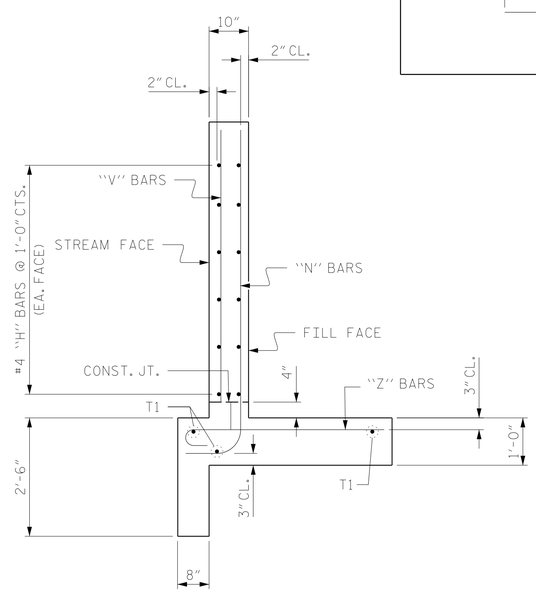



PLAN



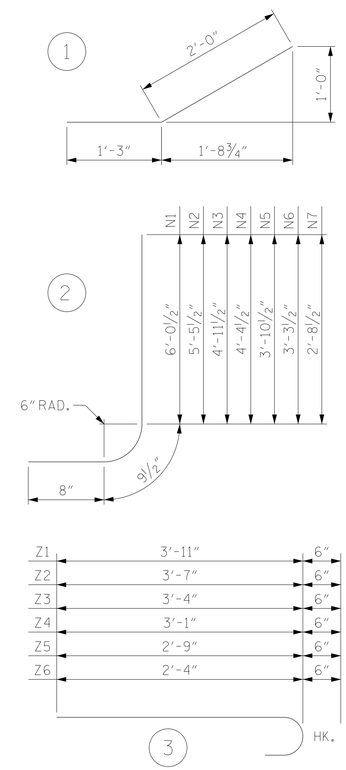

ELEVATION




TYPICAL WING SECTION

## BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.




## BILL OF MATERIAL

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| H1 | 24 | #4 | STR | 11'-10" | 190 |
| H2 | 8 | #4 | STR | 8'-0" | 43 |
| H3 | 8 | #4 | STR | 4'-4" | 23 |
| H4 | 48 | #4 | 1 | 3'-3" | 104 |
| H5 | 8 | #4 | STR | 12'-3" | 65 |
| | | | | | |
| N1 | 8 | #4 | 2 | 7'-6" | 40 |
| N2 | 8 | #4 | 2 | 6'-11" | 37 |
| N3 | 8 | #4 | 2 | 6'-5" | 34 |
| N4 | 8 | #4 | 2 | 5'-10" | 31 |
| N5 | 8 | #4 | 2 | 5'-4" | 29 |
| N6 | 8 | #4 | 2 | 4'-9" | 25 |
| N7 | 8 | #4 | 2 | 4'-2" | 22 |
| | | | | | |
| S1 | 12 | #6 | STR | 6'-0" | 108 |
| | | | | | |
| T1 | 12 | #5 | STR | 13'-9" | 172 |
| | | | | | |
| V1 | 8 | #4 | STR | 5'-6" | 29 |
| V2 | 8 | #4 | STR | 4'-11" | 26 |
| V3 | 8 | #4 | STR | 4'-4" | 23 |
| V4 | 8 | #4 | STR | 3'-10" | 20 |
| V5 | 8 | #4 | STR | 3'-3" | 17 |
| V6 | 8 | #4 | STR | 2'-9" | 15 |
| V7 | 8 | #4 | STR | 2'-1" | 11 |
| | | | | | |
| Z1 | 12 | #4 | 3 | 4'-5" | 35 |
| Z2 | 8 | #4 | 3 | 4'-1" | 22 |
| Z3 | 8 | #4 | 3 | 3'-10" | 20 |
| Z4 | 8 | #4 | 3 | 3'-7" | 19 |
| Z5 | 8 | #4 | 3 | 3'-3" | 17 |
| Z6 | 12 | #4 | 3 | 2'-10" | 23 |

REINFORCING STEEL
FOR 4 WINGS 1200 LBS

CLASS A CONCRETE
4 WINGS 17.1 CY
2 HEADWALLS 1.5 CY
END CURTAIN WALLS 1.8 CY
TOTAL 20.4 CY

PROJECT NO. R-4705
MARTIN COUNTY
STATION: 53+70.00 -L-

SHEET 5 OF 5

ENGINEER OF RECORD
4/30/2019
NORTH CAROLINA PROFESSIONAL SEAL 22072 ENGINEER JOHN ARTHUR DILWORTH

Docusigned by:
John Arthur Dilworth
B2180E2B...

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# WINGS FOR CONCRETE BOX CULVERT

H = 5'-0" SLOPE = 3:1
90° SKEW

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | C5 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 5 |

DRAWN BY : A.J. KLINK DATE : 11/18
CHECKED BY : J.A. DILWORTH DATE : 11/18

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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