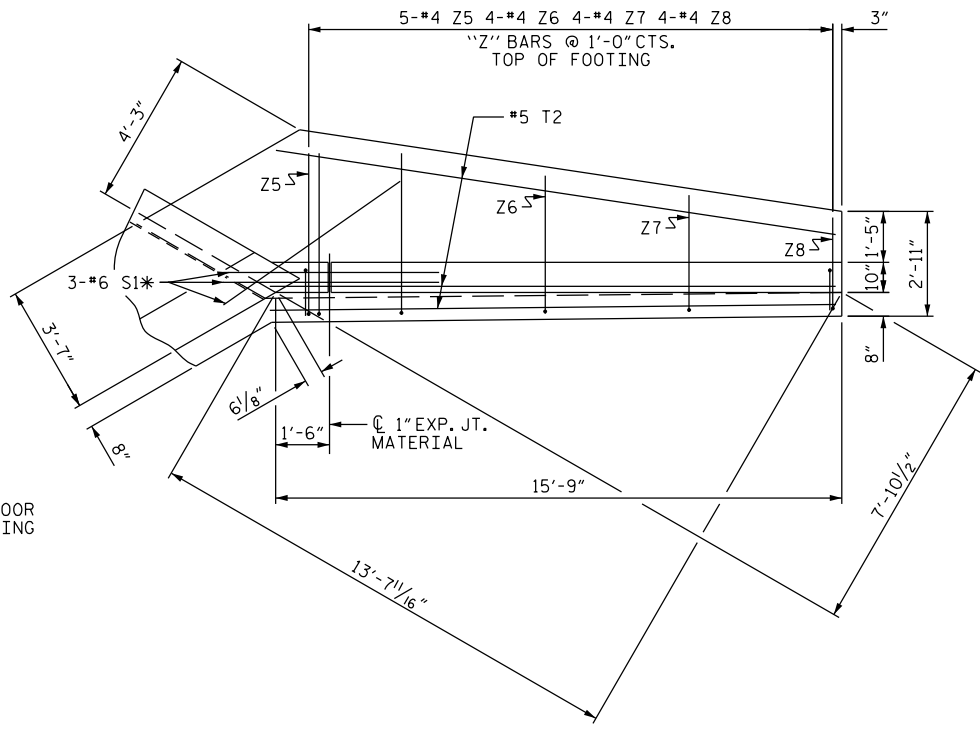
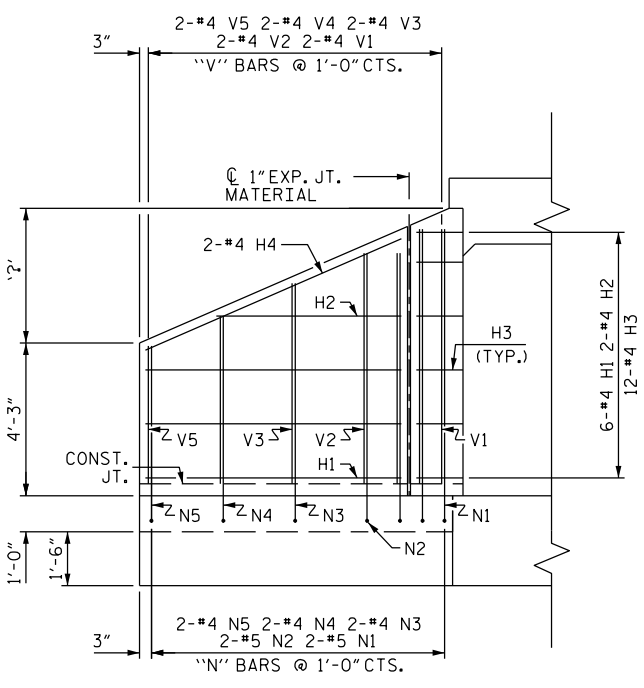


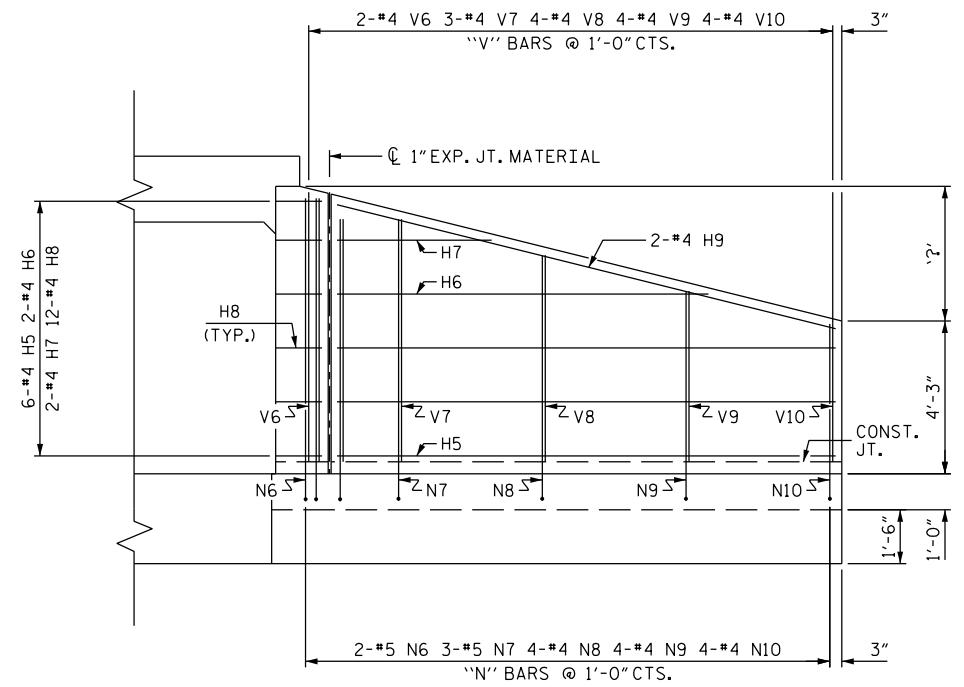
PLAN W2



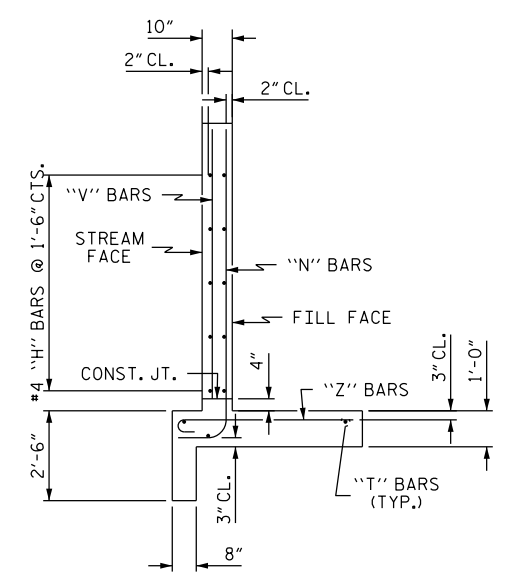
PLAN W1



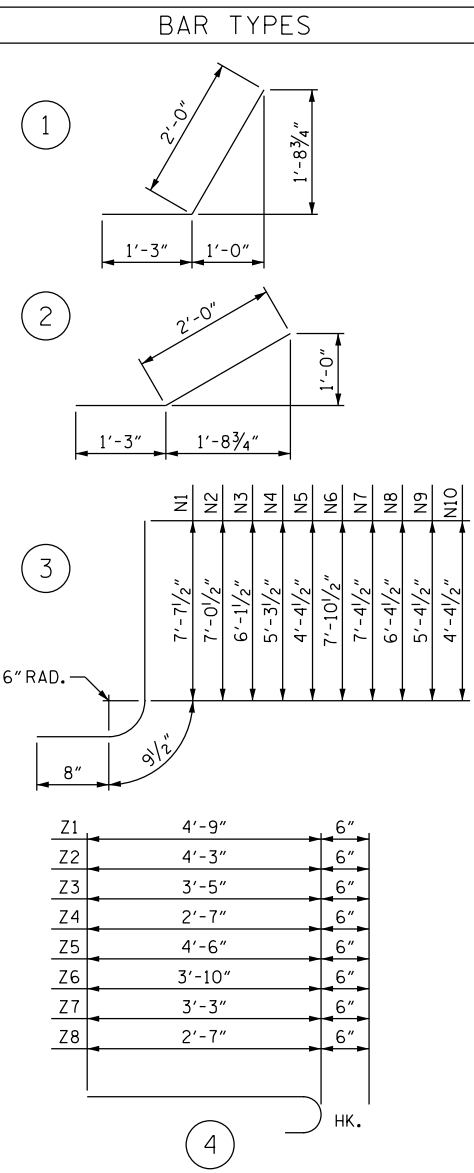
ELEVATION W2



ELEVATION W1



TYPICAL WING SECTION



ALL BAR DIMENSIONS ARE OUT TO OUT.

| BILL OF MATERIAL              |     |      |      |         |        |
|-------------------------------|-----|------|------|---------|--------|
| BAR                           | NO. | SIZE | TYPE | LENGTH  | WEIGHT |
| H1                            | 12  | #4   | STR  | 7'-1"   | 57     |
| H2                            | 4   | #4   | STR  | 5'-2"   | 14     |
| H3                            | 24  | #4   | 1    | 3'-3"   | 52     |
| H4                            | 4   | #4   | STR  | 7'-9"   | 21     |
| H5                            | 12  | #4   | STR  | 13'-10" | 111    |
| H6                            | 4   | #4   | STR  | 10'-4"  | 28     |
| H7                            | 4   | #4   | STR  | 4'-3"   | 11     |
| H8                            | 24  | #4   | 2    | 3'-3"   | 52     |
| H9                            | 4   | #4   | STR  | 14'-3"  | 38     |
| N1                            | 4   | #5   | 3    | 9'-1"   | 38     |
| N2                            | 4   | #5   | 3    | 8'-6"   | 35     |
| N3                            | 4   | #4   | 3    | 7'-7"   | 20     |
| N4                            | 4   | #4   | 3    | 6'-9"   | 18     |
| N5                            | 4   | #4   | 3    | 5'-10"  | 16     |
| N6                            | 4   | #5   | 3    | 9'-4"   | 39     |
| N7                            | 6   | #5   | 3    | 8'-10"  | 55     |
| N8                            | 8   | #4   | 3    | 7'-10"  | 42     |
| N9                            | 8   | #4   | 3    | 6'-10"  | 37     |
| N10                           | 8   | #4   | 3    | 5'-10"  | 31     |
| S1                            | 12  | #6   | STR  | 6'-0"   | 108    |
| T1                            | 6   | #5   | STR  | 9'-0"   | 56     |
| T2                            | 6   | #5   | STR  | 15'-9"  | 99     |
| V1                            | 4   | #4   | STR  | 7'-1"   | 19     |
| V2                            | 4   | #4   | STR  | 6'-5"   | 17     |
| V3                            | 4   | #4   | STR  | 5'-7"   | 15     |
| V4                            | 4   | #4   | STR  | 4'-8"   | 12     |
| V5                            | 4   | #4   | STR  | 3'-10"  | 10     |
| V6                            | 4   | #4   | STR  | 7'-4"   | 20     |
| V7                            | 6   | #4   | STR  | 6'-9"   | 27     |
| V8                            | 8   | #4   | STR  | 5'-9"   | 31     |
| V9                            | 8   | #4   | STR  | 4'-9"   | 25     |
| V10                           | 8   | #4   | STR  | 3'-10"  | 20     |
| Z1                            | 4   | #4   | 4    | 5'-3"   | 14     |
| Z2                            | 4   | #4   | 4    | 4'-9"   | 13     |
| Z3                            | 6   | #4   | 4    | 3'-11"  | 16     |
| Z4                            | 6   | #4   | 4    | 3'-1"   | 12     |
| Z5                            | 10  | #4   | 4    | 5'-0"   | 33     |
| Z6                            | 8   | #4   | 4    | 4'-4"   | 23     |
| Z7                            | 8   | #4   | 4    | 3'-9"   | 20     |
| Z8                            | 8   | #4   | 4    | 3'-1"   | 16     |
| REINFORCING STEEL FOR 4 WINGS |     |      |      | 1321    | LBS    |
| CLASS A CONCRETE              |     |      |      |         |        |
| 4 WINGS                       |     |      |      | 19.8    | CY     |
| 2 HEADWALLS                   |     |      |      |         | CY     |
| 2 END CURTAIN WALLS           |     |      |      |         | CY     |
| TOTAL                         |     |      |      |         | CY     |

PROJECT NO. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATION: \_\_\_\_\_

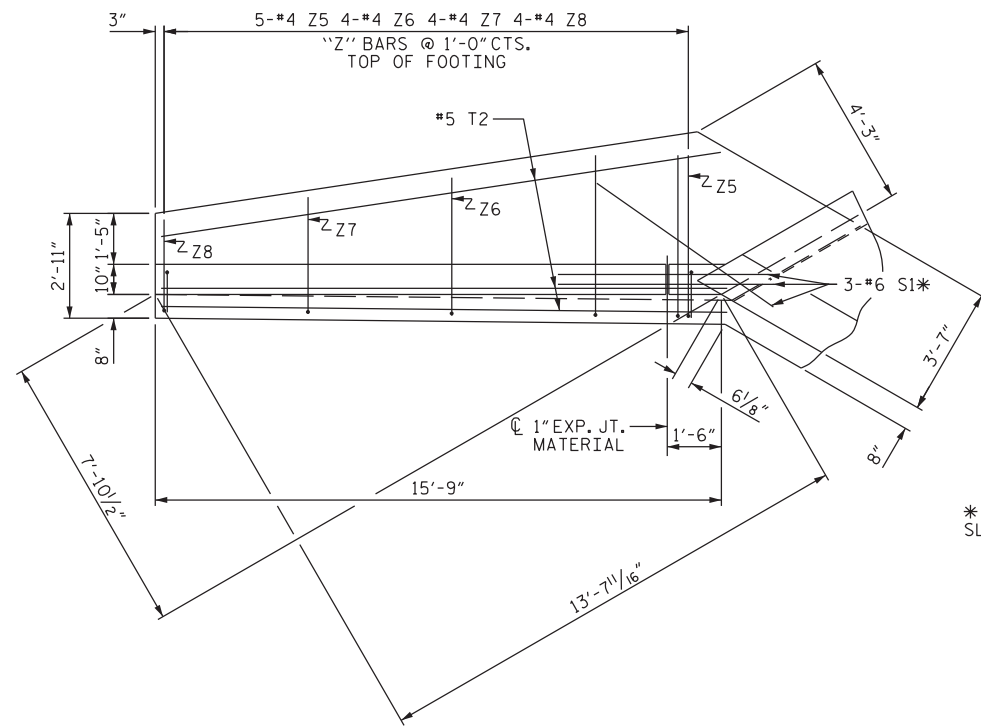
SHEET \_\_\_\_\_ OF \_\_\_\_\_

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD WINGS  
FOR  
CONCRETE BOX CULVERT  
H = 7'-0" SLOPE = 2:1  
60° SKEW

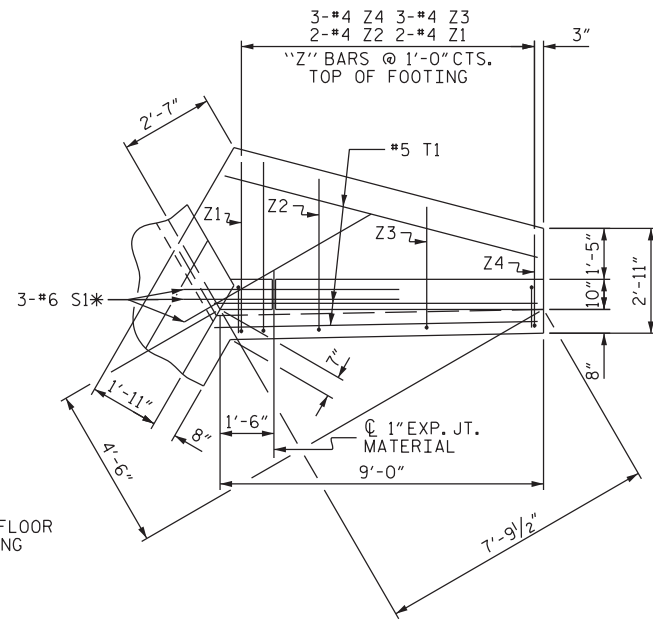
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| 2         |     |       | 4   |     |       |              |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

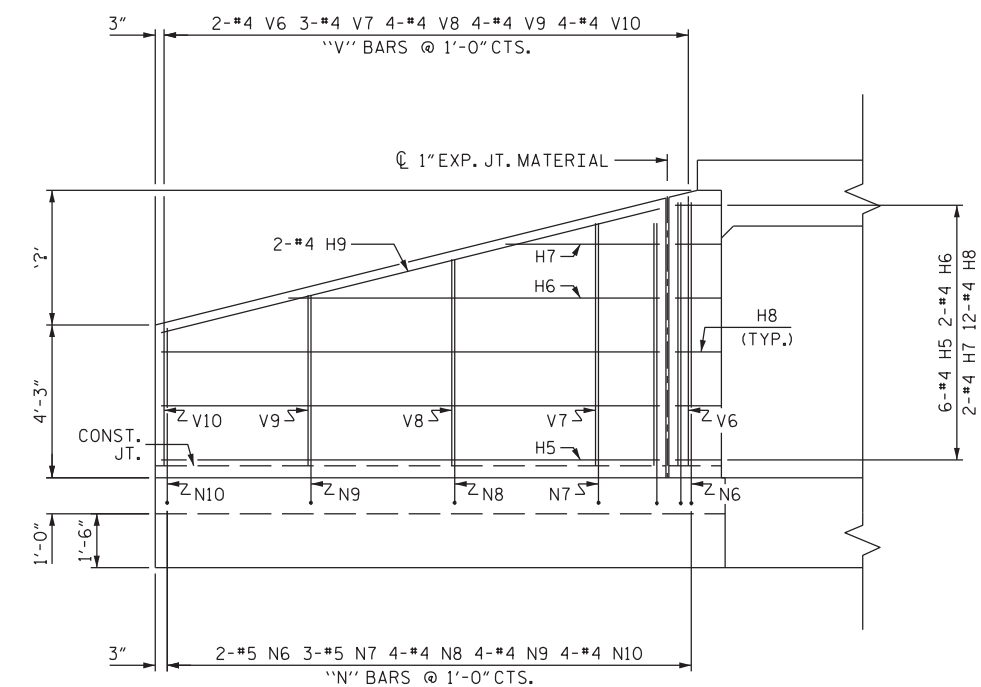
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| CHECKED BY : -         | DATE : -          |
| DRAWN BY : CCJ 11/99   | REV. 6/19 MAA/THC |
| CHECKED BY : RWW 03/00 |                   |



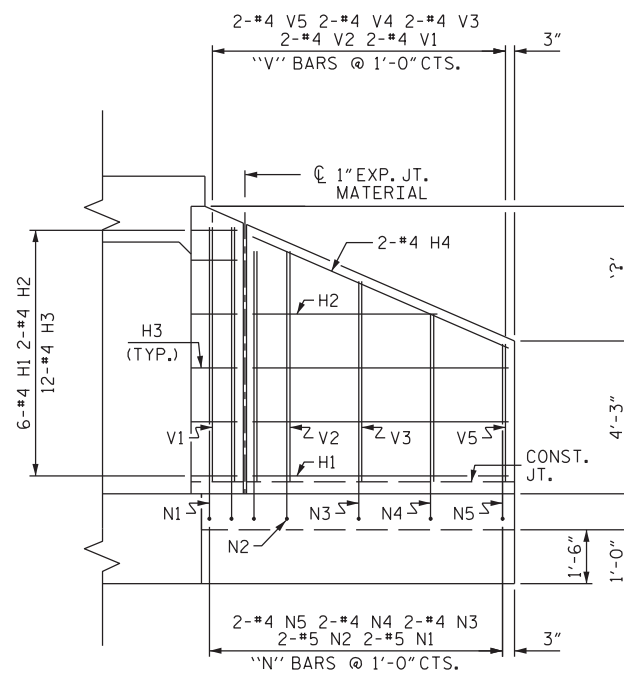
PLAN W1



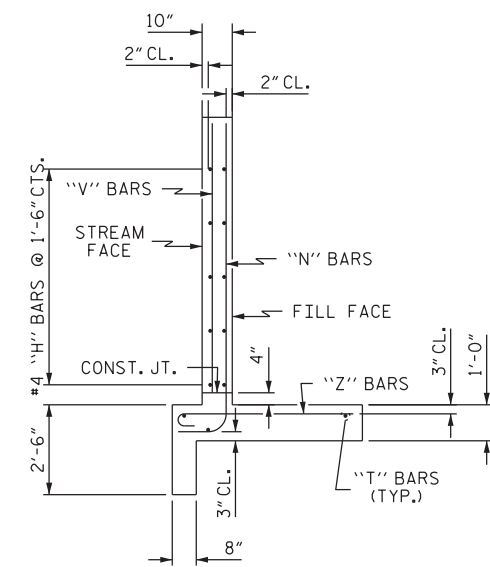
PLAN W2



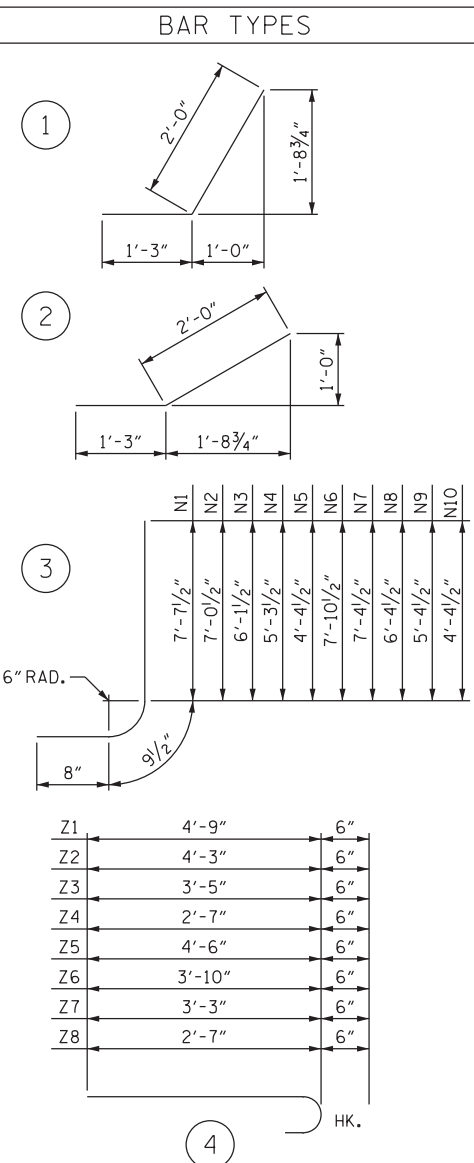
ELEVATION W1



ELEVATION W2



TYPICAL WING SECTION



BAR TYPES

| BILL OF MATERIAL    |     |      |      |         |          |
|---------------------|-----|------|------|---------|----------|
| BAR                 | NO. | SIZE | TYPE | LENGTH  | WEIGHT   |
| H1                  | 12  | #4   | STR  | 7'-1"   | 57       |
| H2                  | 4   | #4   | STR  | 5'-2"   | 14       |
| H3                  | 24  | #4   | 1    | 3'-3"   | 52       |
| H4                  | 4   | #4   | STR  | 7'-9"   | 21       |
| H5                  | 12  | #4   | STR  | 13'-10" | 111      |
| H6                  | 4   | #4   | STR  | 10'-4"  | 28       |
| H7                  | 4   | #4   | STR  | 4'-3"   | 11       |
| H8                  | 24  | #4   | 2    | 3'-3"   | 52       |
| H9                  | 4   | #4   | STR  | 14'-3"  | 38       |
| N1                  | 4   | #5   | 3    | 9'-1"   | 38       |
| N2                  | 4   | #5   | 3    | 8'-6"   | 35       |
| N3                  | 4   | #4   | 3    | 7'-7"   | 20       |
| N4                  | 4   | #4   | 3    | 6'-9"   | 18       |
| N5                  | 4   | #4   | 3    | 5'-10"  | 16       |
| N6                  | 4   | #5   | 3    | 9'-4"   | 39       |
| N7                  | 6   | #5   | 3    | 8'-10"  | 55       |
| N8                  | 8   | #4   | 3    | 7'-10"  | 42       |
| N9                  | 8   | #4   | 3    | 6'-10"  | 37       |
| N10                 | 8   | #4   | 3    | 5'-10"  | 31       |
| S1                  | 12  | #6   | STR  | 6'-0"   | 108      |
| T1                  | 6   | #5   | STR  | 9'-0"   | 56       |
| T2                  | 6   | #5   | STR  | 15'-9"  | 99       |
| V1                  | 4   | #4   | STR  | 7'-1"   | 19       |
| V2                  | 4   | #4   | STR  | 6'-5"   | 17       |
| V3                  | 4   | #4   | STR  | 5'-7"   | 15       |
| V4                  | 4   | #4   | STR  | 4'-8"   | 12       |
| V5                  | 4   | #4   | STR  | 3'-10"  | 10       |
| V6                  | 4   | #4   | STR  | 7'-4"   | 20       |
| V7                  | 6   | #4   | STR  | 6'-9"   | 27       |
| V8                  | 8   | #4   | STR  | 5'-9"   | 31       |
| V9                  | 8   | #4   | STR  | 4'-9"   | 25       |
| V10                 | 8   | #4   | STR  | 3'-10"  | 20       |
| Z1                  | 4   | #4   | 4    | 5'-3"   | 14       |
| Z2                  | 4   | #4   | 4    | 4'-9"   | 13       |
| Z3                  | 6   | #4   | 4    | 3'-11"  | 16       |
| Z4                  | 6   | #4   | 4    | 3'-1"   | 12       |
| Z5                  | 10  | #4   | 4    | 5'-0"   | 33       |
| Z6                  | 8   | #4   | 4    | 4'-4"   | 23       |
| Z7                  | 8   | #4   | 4    | 3'-9"   | 20       |
| Z8                  | 8   | #4   | 4    | 3'-1"   | 16       |
| REINFORCING STEEL   |     |      |      |         | 1321 LBS |
| FOR 4 WINGS         |     |      |      |         |          |
| CLASS A CONCRETE    |     |      |      |         |          |
| 4 WINGS             |     |      |      |         | 19.8 CY  |
| 2 HEADWALLS         |     |      |      |         | CY       |
| 2 END CURTAIN WALLS |     |      |      |         | CY       |
| TOTAL               |     |      |      |         | CY       |

ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATION: \_\_\_\_\_

SHEET \_\_\_\_\_ OF \_\_\_\_\_

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD WINGS  
FOR  
CONCRETE BOX CULVERT  
H = 7'-0" SLOPE = 2:1  
120° SKEW

|                        |                   |
|------------------------|-------------------|
| ASSEMBLED BY : -       | DATE : -          |
| CHECKED BY : -         | DATE : -          |
| DRAWN BY : CCJ 11/99   | REV. 6/19 MAA/THC |
| CHECKED BY : RWW 03/00 |                   |

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED

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