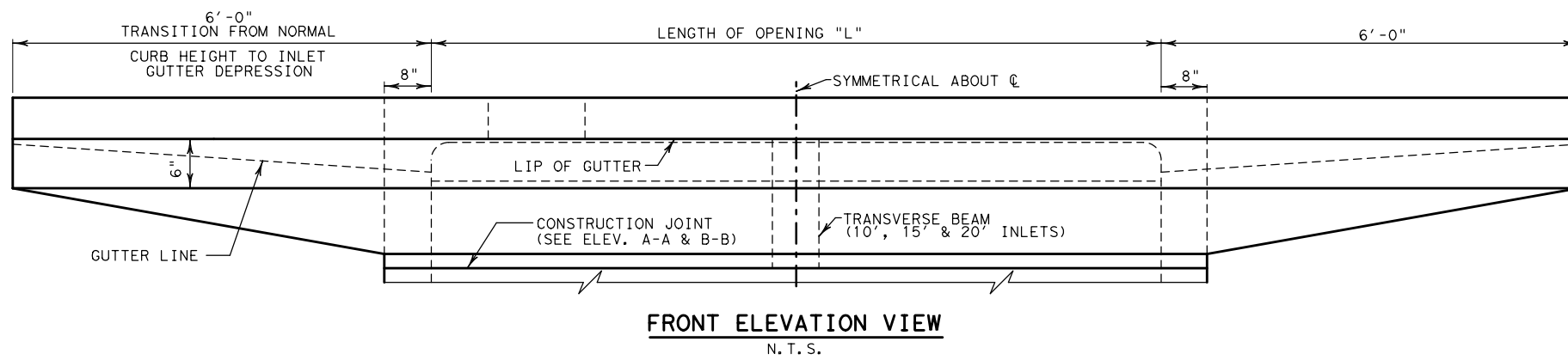


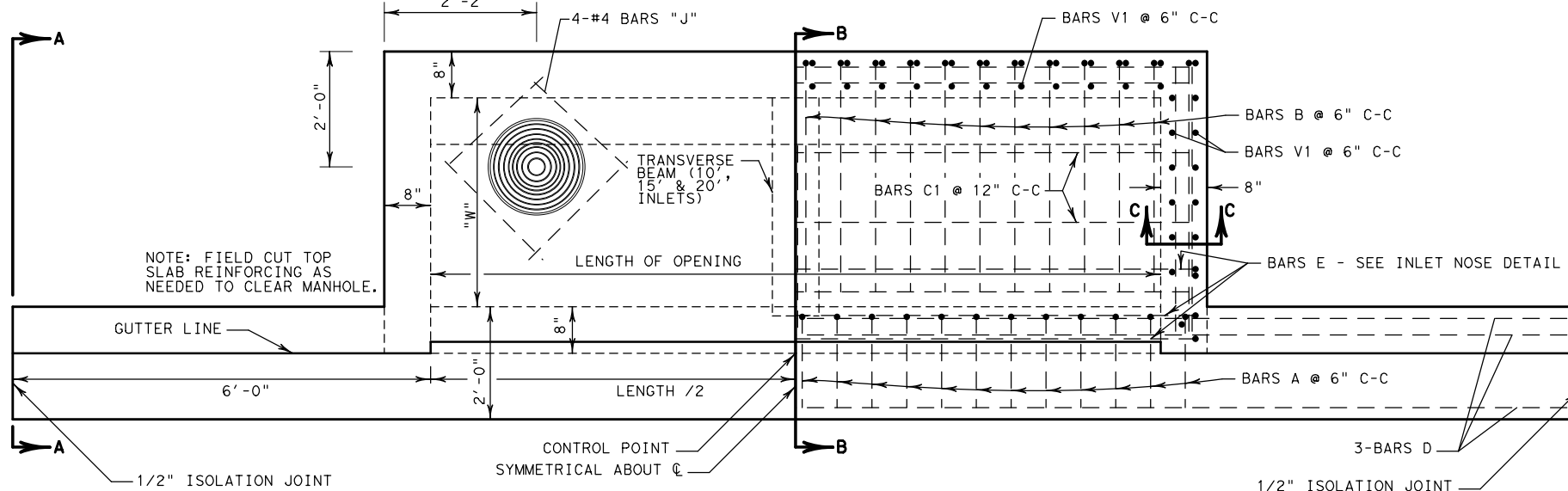
DISCLAIMER: THE USE OF THIS STANDARD IS COVERED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TXDOT FOR ANY PURPOSE WHATSOEVER. TXDOT ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

http://www.dot.state.tx.us/ftw/specinfo/standard.htm
 11/6/2020 10:57:23 AM
 P:\PROJECTS\TXDOT\16121\5 FTW Standards Revision\CADD\Modifications in Progress\lco-ftw.dgn

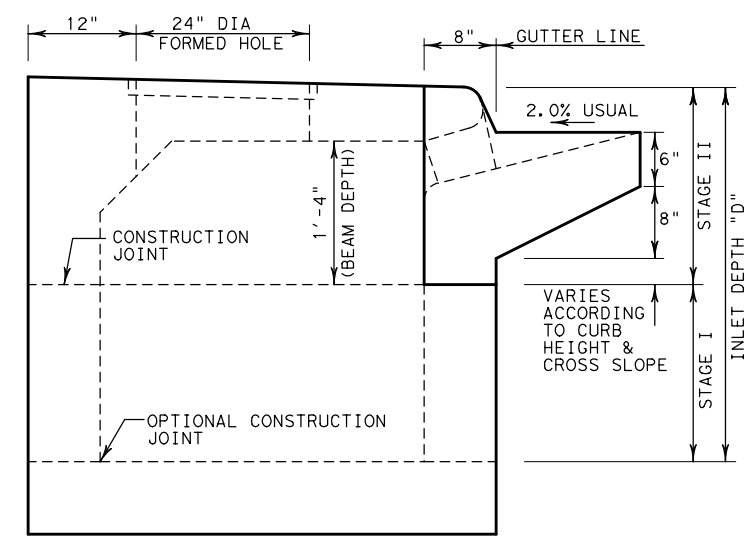


FRONT ELEVATION VIEW
N. T. S.

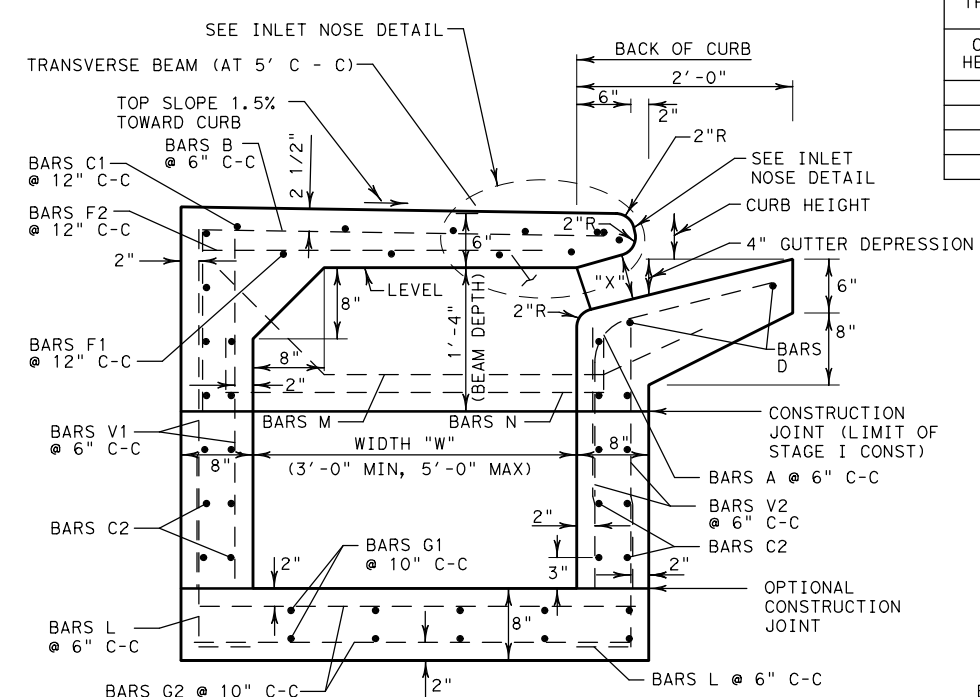
NOTE: LOCATION OF RING AND COVER TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE ENGINEER



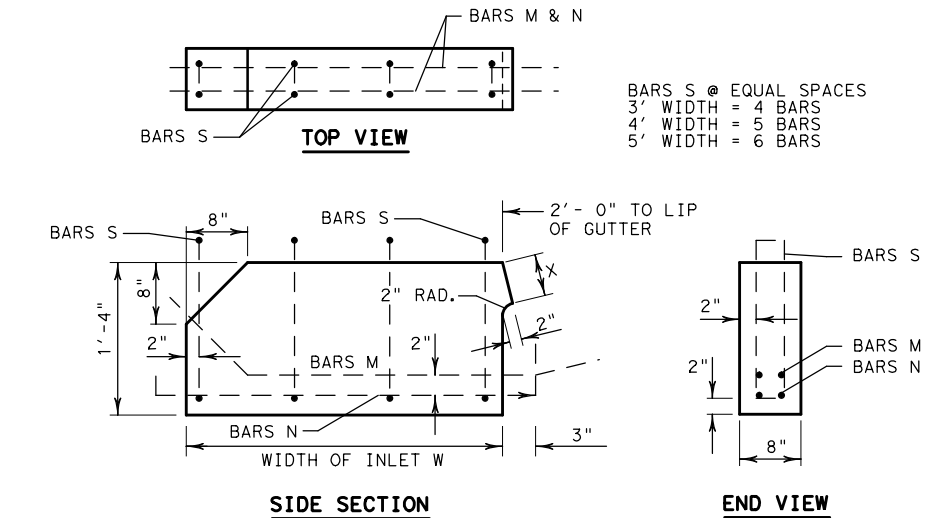
PLAN VIEW
(ONLY TOP LAYER OF SLAB REINFORCING SHOWN, FOR CLARITY)
N. T. S.



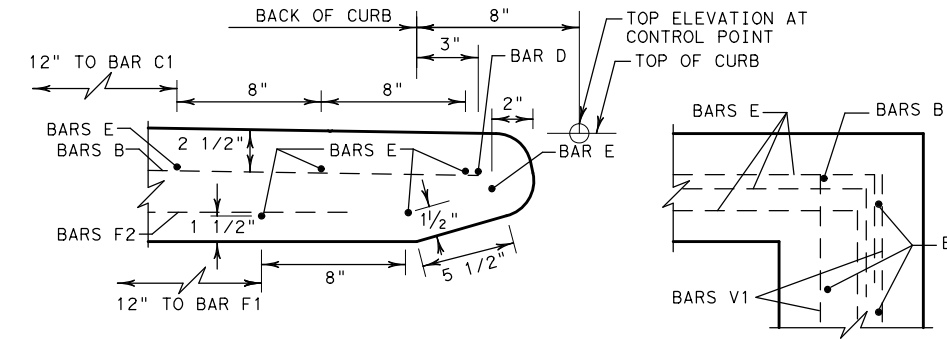
SIDE ELEVATION "A-A"
N. T. S.



SECTION "B-B"
N. T. S.

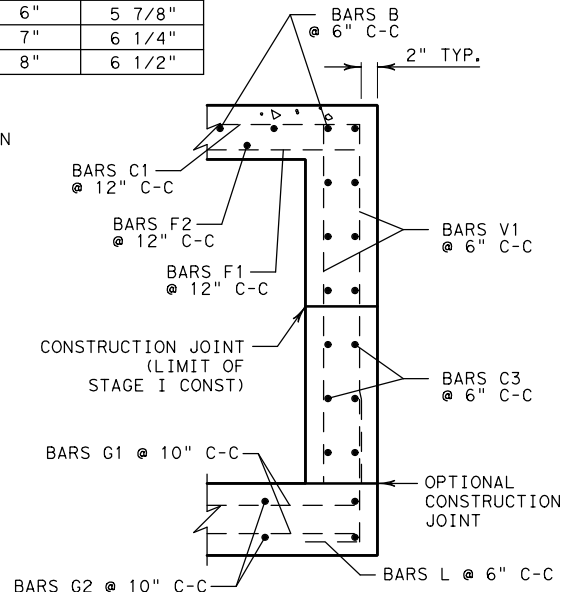


TRANSVERSE BEAM DETAIL
BEAMS AT 5' C - C (10', 15' & 20' INLETS)
N. T. S.



INLET NOSE DETAIL
N. T. S.

| THROAT DIMENSION | |
|------------------|--------|
| CURB HEIGHT | "X" |
| 5" | 5" |
| 6" | 5 7/8" |
| 7" | 6 1/4" |
| 8" | 6 1/2" |



SECTION "C-C"
N. T. S.

SEE SHEET 2 OF 2 FOR DETAILS OF REINFORCING, BILL OF REINFORCING STEEL, SUMMARY OF QUANTITIES, TABLE OF MAXIMUM CONDUIT SIZES AND GENERAL NOTES.

SHEET 1 OF 2 SHEETS

| | | | |
|---|----------------------------|-------------------------------------|-----------------------|
| | | Fort Worth District Standard | |
| CURB INLET OUTSIDE PAVEMENT FOR USE WITH TYPE II CURB I-CO (FTW) | | | |
| ORIGINAL DRAWING: 05/2019 | lco-ftw.dgn | FED. RD. DIV. NO. 6 | PROJECT NO. |
| DATE | REVISIONS | STATE | COUNTY |
| 05/2019 | NEW STANDARD | TEXAS | FTW |
| 04/2020 | ADD MAX CONDUIT SIZE TABLE | | |
| 11/2020 | REVISED JOINT NOMENCLATURE | | |
| | | CONT. | SECT. JOB HIGHWAY NO. |

DISCLAIMER: THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TXDOT FOR ANY PURPOSE WHATSOEVER. TXDOT ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

http://www.dot.state.tx.us/ftw/specinfo/standard.htm
 1/7/2021 8:37:39 AM
 P:\PROJECTS\TXDOT\16121\5 FTW Standards Revision\CADD\Modifications in Progress\lco-ftw.dgn

BILL OF REINFORCING STEEL FOR "D" = 4'

| Width "W" | Length | Bars A | | Bars B | | Bars C1 | | Bars C2 | | Bars C3 | | Bars D | | Bars E | | Bars F1 | | Bars F2 | | Bars G1 | | Bars G2 | | Bars J | | | |
|-----------|--------|--------|-----------|--------|-----------|---------|------------|---------|-----------|---------|-----------|--------|----|--------|-----|---------|------------|---------|------------|---------|------------|---------|------------|--------|----|----|----|
| | | #4 | at 6' Spa | #4 | at 6' Spa | #5 | at 12' Spa | #5 | at 6' Spa | #5 | at 6' Spa | #4 | Wt | #5 | Wt | #4 | at 12' Spa | #4 | at 12' Spa | #5 | at 10' Spa | #5 | at 10' Spa | #4 | Wt | #4 | Wt |
| [ft] | [ft] | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt |
| 3.0 | 5.0 | 13 | 37 | 10 | 5.417 | 2 | 13 | 29 | 181 | 27 | 113 | 3 | 33 | 6 | 48 | 1 | 4 | 7 | 12 | 10 | 63 | 14 | 58 | 4 | 8 | 4 | 8 |
| 4.0 | 5.0 | 13 | 37 | 10 | 6.417 | 3 | 19 | 29 | 181 | 27 | 141 | 3 | 33 | 6 | 48 | 2 | 8 | 7 | 16 | 12 | 75 | 14 | 73 | 4 | 8 | 4 | 8 |
| 5.0 | 5.0 | 13 | 37 | 10 | 7.417 | 4 | 25 | 29 | 181 | 27 | 169 | 3 | 33 | 6 | 48 | 3 | 12 | 7 | 21 | 14 | 88 | 14 | 88 | 4 | 8 | 4 | 8 |
| 3.0 | 10.0 | 23 | 65 | 20 | 5.417 | 2 | 23 | 29 | 333 | 27 | 113 | 3 | 43 | 6 | 80 | 1 | 7 | 12 | 20 | 10 | 115 | 26 | 108 | 4 | 8 | 4 | 8 |
| 4.0 | 10.0 | 23 | 65 | 20 | 6.417 | 3 | 34 | 29 | 333 | 27 | 141 | 3 | 43 | 6 | 80 | 2 | 15 | 12 | 28 | 12 | 138 | 26 | 136 | 4 | 8 | 4 | 8 |
| 5.0 | 10.0 | 23 | 65 | 20 | 7.417 | 4 | 46 | 29 | 333 | 27 | 169 | 3 | 43 | 6 | 80 | 3 | 22 | 12 | 36 | 14 | 161 | 26 | 163 | 4 | 8 | 4 | 8 |
| 3.0 | 15.0 | 33 | 94 | 30 | 5.417 | 2 | 33 | 29 | 484 | 27 | 113 | 3 | 53 | 6 | 111 | 1 | 11 | 17 | 28 | 10 | 167 | 38 | 159 | 4 | 8 | 4 | 8 |
| 4.0 | 15.0 | 33 | 94 | 30 | 6.417 | 3 | 50 | 29 | 484 | 27 | 141 | 3 | 53 | 6 | 111 | 2 | 21 | 17 | 40 | 12 | 200 | 38 | 198 | 4 | 8 | 4 | 8 |
| 5.0 | 15.0 | 33 | 94 | 30 | 7.417 | 4 | 67 | 29 | 484 | 27 | 169 | 3 | 53 | 6 | 111 | 3 | 32 | 17 | 51 | 14 | 234 | 38 | 238 | 4 | 8 | 4 | 8 |
| 3.0 | 20.0 | 43 | 122 | 40 | 5.417 | 2 | 44 | 29 | 635 | 27 | 113 | 3 | 63 | 6 | 142 | 1 | 14 | 22 | 37 | 10 | 219 | 50 | 209 | 4 | 8 | 4 | 8 |
| 4.0 | 20.0 | 43 | 122 | 40 | 6.417 | 3 | 66 | 29 | 635 | 27 | 141 | 3 | 63 | 6 | 142 | 2 | 28 | 22 | 51 | 12 | 263 | 50 | 261 | 4 | 8 | 4 | 8 |
| 5.0 | 20.0 | 43 | 122 | 40 | 7.417 | 4 | 88 | 29 | 635 | 27 | 169 | 3 | 63 | 6 | 142 | 3 | 42 | 22 | 66 | 14 | 307 | 50 | 313 | 4 | 8 | 4 | 8 |

BILL OF REINFORCING STEEL FOR "D" = 4' (CONTINUED)

| Width "W" | Length | Bars L | | Bars M | | Bars N | | Bars S | | Bars V1 | | Bars V2 | |
|-----------|--------|--------|-----------|--------|----|--------|----|--------|------------|---------|-----------|---------|-----------|
| | | #5 | at 6' Spa | #4 | Wt | #5 | Wt | #4 | at 12' Spa | #5 | at 6' Spa | #5 | at 6' Spa |
| [ft] | [ft] | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt | No | Wt |
| 3.0 | 5.0 | 36 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 232 | 26 | 77 |
| 4.0 | 5.0 | 40 | 139 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 264 | 26 | 77 |
| 5.0 | 5.0 | 44 | 153 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 296 | 26 | 77 |
| 3.0 | 10.0 | 56 | 195 | 2 | 7 | 2 | 11 | 4 | 11 | 78 | 312 | 46 | 136 |
| 4.0 | 10.0 | 60 | 209 | 2 | 8 | 2 | 13 | 5 | 14 | 86 | 344 | 46 | 136 |
| 5.0 | 10.0 | 64 | 223 | 2 | 9 | 2 | 15 | 6 | 17 | 94 | 376 | 46 | 136 |
| 3.0 | 15.0 | 76 | 264 | 4 | 13 | 4 | 22 | 8 | 22 | 98 | 392 | 66 | 195 |
| 4.0 | 15.0 | 80 | 278 | 4 | 16 | 4 | 26 | 10 | 28 | 106 | 424 | 66 | 195 |
| 5.0 | 15.0 | 84 | 292 | 4 | 19 | 4 | 30 | 12 | 33 | 114 | 456 | 66 | 195 |
| 3.0 | 20.0 | 96 | 334 | 6 | 20 | 6 | 32 | 12 | 33 | 118 | 472 | 86 | 254 |
| 4.0 | 20.0 | 100 | 348 | 6 | 24 | 6 | 39 | 15 | 42 | 126 | 504 | 86 | 254 |
| 5.0 | 20.0 | 104 | 362 | 6 | 28 | 6 | 45 | 18 | 50 | 134 | 536 | 86 | 254 |

| SUMMARY OF QUANTITIES | | | |
|-----------------------|-------------------|-------------------------|---------------------------|
| Total Reinf | Steel Qty Adjust. | Class "C" Concrete | Concrete Qty Adjust. |
| Weight [Lb] | PLF. [Lb] | Class "C" Concrete [CY] | Concrete Qty Adjust. [CY] |
| 1,040 | 171.1 | 3.8 | 0.46 |
| 1,163 | 187.7 | 4.3 | 0.51 |
| 1,286 | 204.4 | 4.8 | 0.56 |
| 1,659 | 254.5 | 5.9 | 0.71 |
| 1,829 | 271.2 | 6.6 | 0.76 |
| 2,000 | 287.9 | 7.3 | 0.81 |
| 2,278 | 337.9 | 7.9 | 0.95 |
| 2,496 | 354.6 | 8.9 | 1.00 |
| 2,714 | 371.3 | 9.8 | 1.05 |
| 2,896 | 421.4 | 9.9 | 1.20 |
| 3,162 | 438.1 | 11.2 | 1.25 |
| 3,428 | 454.7 | 12.4 | 1.30 |

| MAXIMUM PARALLEL CONDUIT SIZE | | |
|-------------------------------|--------------------|---------------|
| INLET WIDTH | PIPE DIAMETER (IN) | BOX SPAN (FT) |
| 3' | 24 | - |
| 4' | 36 | 3 |
| 5' | 48 | 4 |

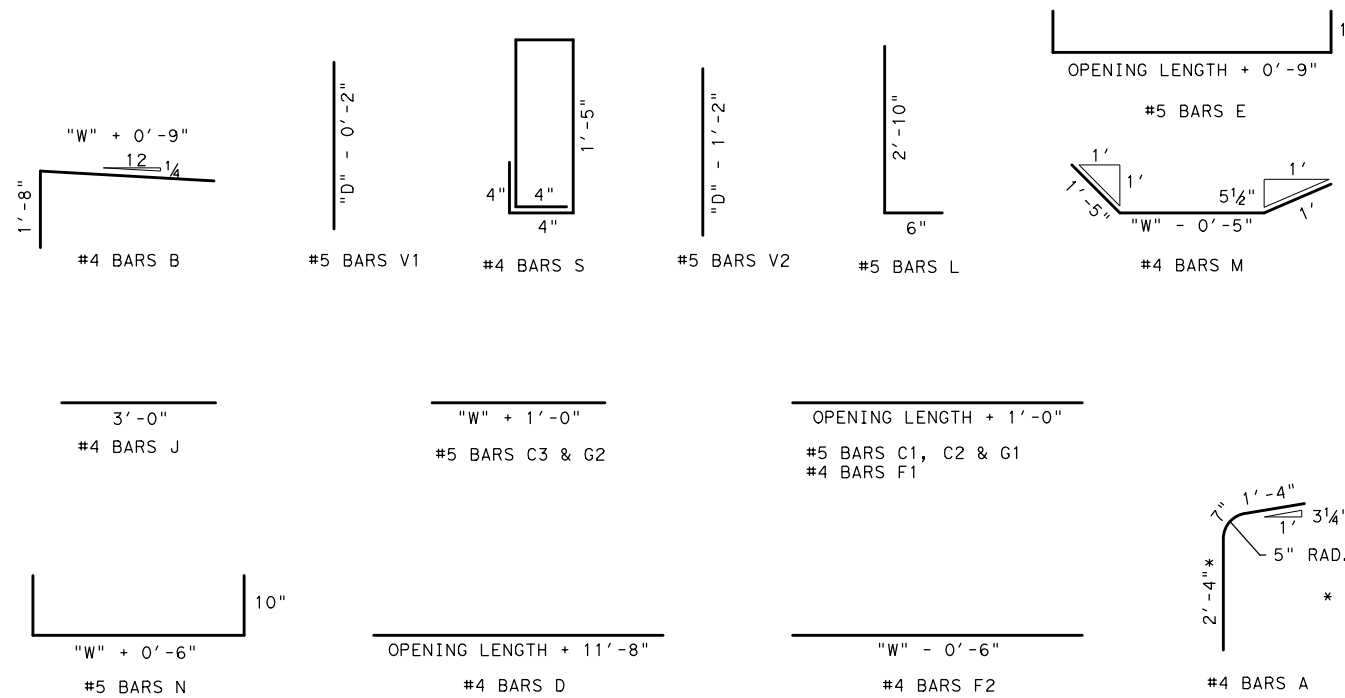
* PARALLEL TO ROADWAY

GENERAL NOTES

- DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS FOR PEDESTRIAN LOADING AND HL-93 LOADING UNDER "EXTREME EVENT II" LOAD COMBINATION.
- ALL CONCRETE FOR CAST-IN-PLACE STRUCTURES SHALL BE CLASS "C"; ALL CONCRETE FOR PRECAST STRUCTURES SHALL BE CLASS "H" (MINIMUM 5000 PSI DESIGN STRENGTH).
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- STAGE I MAY BE EITHER CAST-IN-PLACE OR PRECAST. FABRICATE PRECAST STRUCTURES USING REBAR AS DETAILED HEREON, WITH BARS A, V1, AND V2 TO BE INCLUDED WITH STAGE I. SPLICING OF BARS WILL NOT BE PERMITTED, EXCEPT AS NOTED.
- STAGE II SHALL BE CAST-IN-PLACE.
- CHAMFER ALL EXPOSED CORNERS 3/4", EXCEPT WHERE NOTED OTHERWISE.
- DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTERS OF BARS.
- FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
- FOR PIPE AND BOX CONNECTIONS TO PRECAST INLETS, SEE STANDARD SHEET PPGC.
- INSTALL RING AND COVER AT OUTFALL END OF INLET, UNLESS OTHERWISE DIRECTED. CAST IRON RING AND COVER SHALL CONFORM TO ITEM 471. SEE STANDARD MDD (FTW) FOR RING AND COVER DETAILS.
- DEPTHS OTHER THAN THOSE SHOWN MAY BE USED WHENEVER NECESSARY, UP TO A MAXIMUM DEPTH OF 15'. QUANTITIES FOR OTHER DEPTHS MAY BE DETERMINED BY INTERPOLATION.
- DO NOT COMMENCE WITH STAGE II CONSTRUCTION UNTIL CONCRETE PAVEMENT AND CURB, OR CONCRETE CURB AND GUTTER CONSTRUCTION IS COMPLETED AT THE INLET SITE.
- INSTALL A TEMPORARY WOOD COVER AFTER STAGE I IS COMPLETED, TO REMAIN IN PLACE UNTIL STAGE II CONSTRUCTION BEGINS.
- THE LOCATION OF INLET AS SHOWN IN THE PLAN REFERS TO THE CONTROL POINT AT THE FACE OF CURB AND MID-POINT OF THE INLET.
- PLACE A SEALED 1/2" ISOLATION JOINT ALONG ALL VERTICAL FACES ABUTTING CONCRETE PAVEMENT, CURB, CURB AND GUTTER, OR SIDEWALK. USE CLASS 5 OR 8 JOINT SEALANT TO SEAL THE JOINT. SEE STANDARD JS (FTW) FOR ADDITIONAL INFORMATION.

NOTE:
 AT CONTRACTOR'S OPTION, BARS L MAY BE FABRICATED TO BE CONTINUOUS WITH BARS V1 AND/OR V2.

AT CONTRACTOR'S OPTION, BARS A MAY BE FABRICATED TO BE CONTINUOUS WITH BARS V2.



* NOTE:
 DIMENSION SHOWN FOR 5" CURB.
 INCREASE LENGTH BY 1" FOR EACH
 ADDITIONAL 1" OF CURB HEIGHT.

| | | | |
|---|----------------------------|-------------------------------------|-------------|
| | | Fort Worth District Standard | |
| <h2>CURB INLET OUTSIDE PAVEMENT FOR USE WITH TYPE II CURB I-CO (FTW)</h2> | | | |
| ORIGINAL DRAWING: 05/2019 | lco-ftw.dgn | FED. RD. DIV. NO. 6 | PROJECT NO. |
| DATE | REVISIONS | STATE | COUNTY |
| 05/2019 | NEW STANDARD | TEXAS | FTW |
| 04/2020 | ADD MAX CONDUIT SIZE TABLE | CONT. | SECT. |
| 11/2020 | REVISED JOINT NOMENCLATURE | JOB | HIGHWAY NO. |