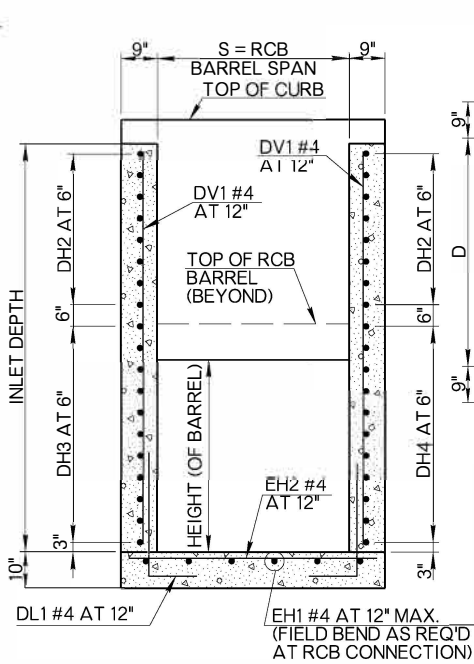
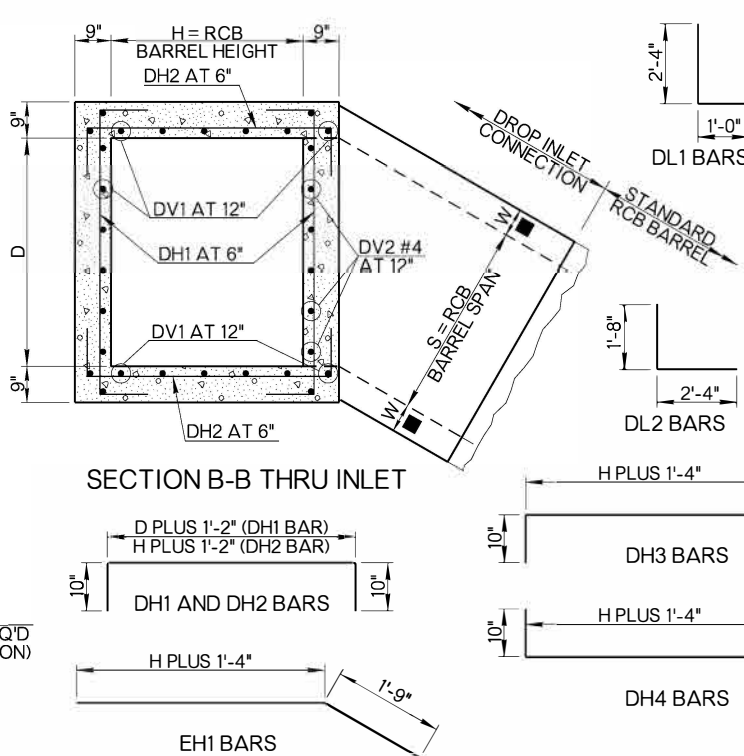


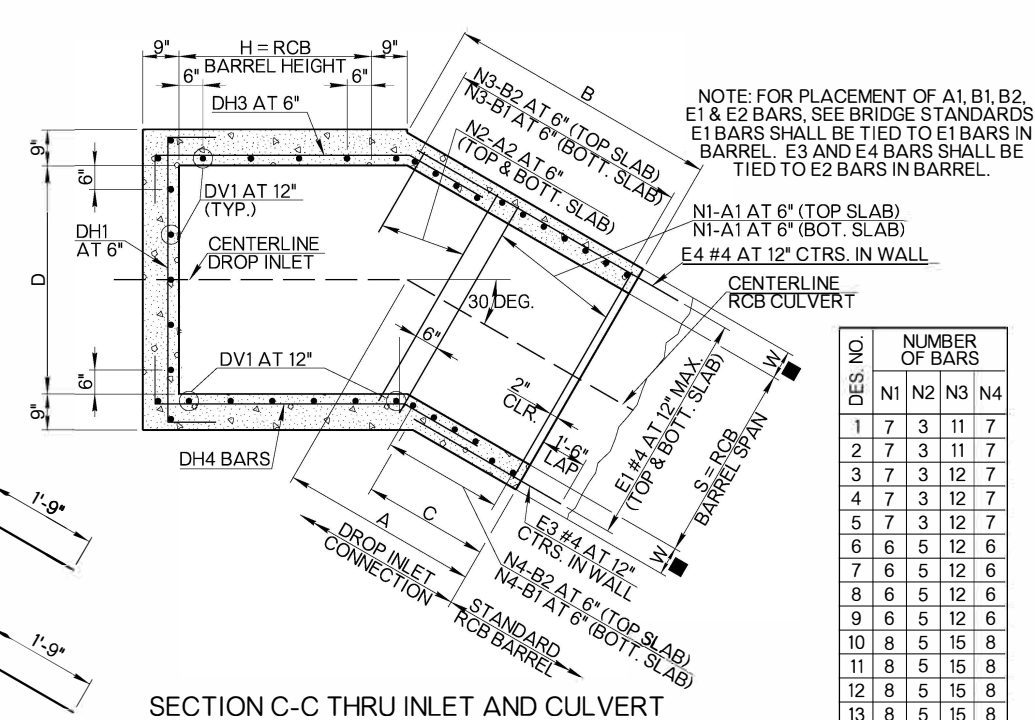
SECTION THRU CENTERLINE RCB CULVERT AND INLET



SECTION A - A THRU INLET



SECTION B-B THRU INLET



SECTION C-C THRU INLET AND CULVERT

| DES. NO. | NUMBER OF BARS |    |    |    |
|----------|----------------|----|----|----|
|          | N1             | N2 | N3 | N4 |
| 1        | 7              | 3  | 11 | 7  |
| 2        | 7              | 3  | 11 | 7  |
| 3        | 7              | 3  | 12 | 7  |
| 4        | 7              | 3  | 12 | 7  |
| 5        | 7              | 3  | 12 | 7  |
| 6        | 6              | 5  | 12 | 6  |
| 7        | 6              | 5  | 12 | 6  |
| 8        | 6              | 5  | 12 | 6  |
| 9        | 6              | 5  | 12 | 6  |
| 10       | 8              | 5  | 15 | 8  |
| 11       | 8              | 5  | 15 | 8  |
| 12       | 8              | 5  | 15 | 8  |
| 13       | 8              | 5  | 15 | 8  |

BAR LIST

| DESIGN NO. | DH1 BARS (BENT) |     | DH2 BARS (BENT) |     | DH3 BARS (BENT) |        | DH4 BARS (BENT) |     | DL1 #4 BARS (BENT) |        | DL2 #4 BARS (BENT) |        | DV1 #4 BARS |        | DV2 #4 BARS |        | DC #4 BARS |        | EH1 #4 BARS (BENT) |        | EH2 #4 BARS |        | A1 BARS |        | A2 BARS |        | B1 BARS (BENT) |        | B2 BARS (BENT) |        | E1 #4 BARS |        | E3 #4 BARS |        | E4 #4 BARS                   |        |    |       |    |    |       |    |                                 |   |        |   |        |
|------------|-----------------|-----|-----------------|-----|-----------------|--------|-----------------|-----|--------------------|--------|--------------------|--------|-------------|--------|-------------|--------|------------|--------|--------------------|--------|-------------|--------|---------|--------|---------|--------|----------------|--------|----------------|--------|------------|--------|------------|--------|------------------------------|--------|----|-------|----|----|-------|----|---------------------------------|---|--------|---|--------|
|            | SIZE            | NO. | SIZE            | NO. | SIZE            | NO.    | SIZE            | NO. | NO.                | LENGTH | NO.                | LENGTH | NO.         | LENGTH | NO.         | LENGTH | NO.        | LENGTH | NO.                | LENGTH | NO.         | LENGTH | NO.     | LENGTH | NO.     | LENGTH | NO.            | LENGTH | NO.            | LENGTH | NO.        | LENGTH | NO.        | LENGTH | NO.                          | LENGTH |    |       |    |    |       |    |                                 |   |        |   |        |
| 1          | #4              | 12  | 6'-6"           | #4  | 4               | 4'-10" | #4              | 6   | 5'-11"             | #4     | 6                  | 5'-11" | #4          | 6      | 5'-11"      | 16     | 3'-4"      | 6      | 4'-0"              | 16     | 3'-4"       | 6      |         | 2      | 4'-2"   | 5      | 5'-1"          | 4      | 4'-2"          | #5     | 14         | 3'-8"  | #5         | 6      | 2'-6" AVG. (1'-7" TO 3'-5")  | #4     | 18 | 2'-5" | #4 | 18 | 3'-1" | 18 | 4'-7 1/2" AVG. (3'-8" TO 5'-7") | 2 | 4'-5"  | 2 | 6'-10" |
| 2          | #4              | 14  | 6'-6"           | #4  | 4               | 5'-10" | #4              | 8   | 6'-11"             | #4     | 8                  | 6'-11" | #4          | 8      | 6'-11"      | 18     | 3'-4"      | 6      | 4'-0"              | 18     | 3'-4"       | 6      |         | 2      | 4'-2"   | 5      | 6'-1"          | 5      | 4'-2"          | #5     | 14         | 3'-10" | #5         | 6      | 2'-8" AVG. (1'-9" TO 3'-7")  | #4     | 18 | 2'-5" | #4 | 18 | 4'-1" | 18 | 4'-7 1/2" AVG. (3'-8" TO 5'-7") | 3 | 4'-6"  | 3 | 6'-10" |
| 3          | #5              | 12  | 7'-5"           | #5  | 4               | 4'-10" | #5              | 6   | 5'-11"             | #5     | 6                  | 5'-11" | #5          | 6      | 5'-11"      | 17     | 3'-4"      | 7      | 4'-0"              | 17     | 3'-4"       | 7      |         | 2      | 5'-2"   | 6      | 5'-1"          | 4      | 5'-2"          | #5     | 14         | 4'-10" | #5         | 6      | 3'-8" AVG. (2'-9" TO 4'-7")  | #4     | 19 | 2'-7" | #4 | 19 | 3'-3" | 20 | 4'-8" AVG. (3'-5" TO 5'-11")    | 2 | 4'-2"  | 2 | 7'-2"  |
| 4          | #5              | 14  | 7'-5"           | #5  | 4               | 5'-10" | #5              | 8   | 6'-11"             | #5     | 8                  | 6'-11" | #5          | 8      | 6'-11"      | 19     | 3'-4"      | 7      | 4'-0"              | 19     | 4'-4"       | 7      |         | 2      | 5'-2"   | 6      | 6'-1"          | 5      | 5'-2"          | #5     | 14         | 4'-10" | #5         | 6      | 3'-8" AVG. (2'-9" TO 4'-7")  | #4     | 19 | 2'-7" | #4 | 19 | 4'-3" | 20 | 4'-8" AVG. (3'-5" TO 5'-11")    | 3 | 4'-2"  | 3 | 7'-2"  |
| 5          | #5              | 16  | 7'-5"           | #5  | 4               | 6'-10" | #5              | 10  | 7'-11"             | #5     | 10                 | 7'-11" | #5          | 10     | 7'-11"      | 21     | 3'-4"      | 7      | 4'-0"              | 21     | 5'-4"       | 7      |         | 2      | 5'-2"   | 6      | 7'-1"          | 6      | 5'-2"          | #5     | 14         | 5'-0"  | #5         | 6      | 3'-9" AVG. (2'-11" TO 4'-9") | #4     | 19 | 3'-1" | #5 | 19 | 5'-5" | 20 | 4'-8" AVG. (3'-5" TO 5'-11")    | 4 | 4'-3"  | 4 | 7'-2"  |
| 6          | #5              | 12  | 8'-7"           | #5  | 4               | 4'-10" | #5              | 6   | 5'-11"             | #5     | 6                  | 5'-11" | #5          | 6      | 5'-11"      | 18     | 3'-4"      | 8      | 4'-0"              | 18     | 3'-4"       | 8      |         | 2      | 6'-2"   | 7      | 5'-1"          | 4      | 6'-2"          | #6     | 12         | 5'-8"  | #6         | 10     | 3'-8" AVG. (1'-11" TO 5'-5") | #4     | 18 | 2'-7" | #4 | 18 | 3'-3" | 22 | 4'-7 1/2" AVG. (3'-1" TO 6'-2") | 2 | 3'-10" | 2 | 7'-5"  |
| 7          | #5              | 14  | 8'-7"           | #5  | 4               | 5'-10" | #5              | 8   | 6'-11"             | #5     | 8                  | 6'-11" | #5          | 8      | 6'-11"      | 20     | 3'-4"      | 8      | 4'-0"              | 20     | 4'-4"       | 8      |         | 2      | 6'-2"   | 7      | 6'-1"          | 5      | 6'-2"          | #6     | 12         | 5'-8"  | #6         | 10     | 3'-8" AVG. (1'-11" TO 5'-5") | #5     | 18 | 3'-1" | #5 | 18 | 4'-5" | 22 | 4'-7 1/2" AVG. (3'-1" TO 6'-2") | 3 | 3'-10" | 3 | 7'-5"  |
| 8          | #5              | 16  | 8'-7"           | #5  | 4               | 6'-10" | #5              | 10  | 7'-11"             | #5     | 10                 | 7'-11" | #5          | 10     | 7'-11"      | 22     | 3'-4"      | 8      | 4'-0"              | 22     | 5'-4"       | 8      |         | 2      | 6'-2"   | 7      | 7'-1"          | 6      | 6'-2"          | #6     | 12         | 5'-10" | #6         | 10     | 3'-10" AVG. (2'-1" TO 5'-7") | #5     | 18 | 3'-1" | #5 | 18 | 5'-5" | 22 | 4'-7 1/2" AVG. (3'-1" TO 6'-2") | 4 | 3'-11" | 4 | 7'-5"  |
| 9          | #5              | 18  | 8'-7"           | #5  | 4               | 7'-10" | #5              | 12  | 8'-11"             | #5     | 12                 | 8'-11" | #5          | 12     | 8'-11"      | 24     | 3'-4"      | 8      | 4'-0"              | 24     | 6'-4"       | 8      |         | 2      | 6'-2"   | 7      | 8'-1"          | 7      | 6'-2"          | #6     | 12         | 6'-0"  | #6         | 10     | 4'-0" AVG. (2'-3" TO 5'-9")  | #5     | 18 | 3'-1" | #5 | 18 | 6'-5" | 22 | 4'-7 1/2" AVG. (3'-1" TO 6'-2") | 5 | 3'-11" | 5 | 7'-5"  |
| 10         | #5              | 14  | 9'-9"           | #5  | 4               | 5'-10" | #5              | 8   | 6'-11"             | #5     | 8                  | 6'-11" | #5          | 8      | 6'-11"      | 22     | 3'-4"      | 10     | 4'-0"              | 22     | 4'-4"       | 10     |         | 2      | 7'-2"   | 8      | 6'-1"          | 5      | 7'-2"          | #6     | 16         | 7'-0"  | #6         | 10     | 5'-0" AVG. (3'-3" TO 6'-9")  | #4     | 23 | 2'-7" | #4 | 23 | 4'-3" | 24 | 5'-8" AVG. (3'-10" TO 7'-6")    | 3 | 4'-8"  | 3 | 8'-8"  |
| 11         | #5              | 16  | 9'-9"           | #5  | 4               | 6'-10" | #5              | 10  | 7'-11"             | #5     | 10                 | 7'-11" | #5          | 10     | 7'-11"      | 24     | 3'-4"      | 10     | 4'-0"              | 24     | 5'-4"       | 10     |         | 2      | 7'-2"   | 8      | 7'-1"          | 6      | 7'-2"          | #6     | 16         | 7'-0"  | #6         | 10     | 5'-0" AVG. (3'-3" TO 6'-9")  | #4     | 23 | 2'-7" | #4 | 23 | 5'-3" | 24 | 5'-8" AVG. (3'-10" TO 7'-6")    | 4 | 4'-8"  | 4 | 8'-8"  |
| 12         | #5              | 18  | 9'-9"           | #5  | 4               | 7'-10" | #5              | 12  | 8'-11"             | #5     | 12                 | 8'-11" | #5          | 12     | 8'-11"      | 26     | 3'-4"      | 10     | 4'-0"              | 26     | 6'-4"       | 10     |         | 2      | 7'-2"   | 8      | 8'-1"          | 7      | 7'-2"          | #6     | 16         | 7'-2"  | #6         | 10     | 5'-2" AVG. (3'-5" TO 6'-11") | #4     | 23 | 2'-7" | #4 | 23 | 6'-3" | 24 | 5'-8" AVG. (3'-10" TO 7'-6")    | 5 | 4'-9"  | 5 | 8'-8"  |
| 13         | #5              | 20  | 9'-9"           | #5  | 4               | 8'-10" | #5              | 14  | 9'-11"             | #5     | 14                 | 9'-11" | #5          | 14     | 9'-11"      | 28     | 3'-4"      | 10     | 4'-0"              | 28     | 7'-4"       | 10     |         | 2      | 7'-2"   | 8      | 9'-1"          | 8      | 7'-2"          | #6     | 16         | 7'-2"  | #6         | 10     | 5'-2" AVG. (3'-5" TO 6'-11") | #4     | 23 | 2'-8" | #4 | 23 | 7'-4" | 24 | 5'-9" AVG. (3'-11" TO 7'-7")    | 6 | 4'-9"  | 6 | 8'-8"  |

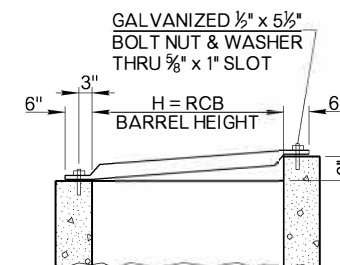
FOR INLETS WITH ADDITIONAL DEPTH ONLY. SEE REINFORCING FOR ADDITIONAL DEPTH NOTE.

| DESIGN NO. | S = BARREL SPAN | H = BARREL HEIGHT | STANDARD DEPTH | INLET DIMENSIONS |            |            |            |
|------------|-----------------|-------------------|----------------|------------------|------------|------------|------------|
|            |                 |                   |                | A                | B          | C          | D          |
| 1          | 3'              | 2'                | 3'-6"          | 4'-0"            | 5'-3 3/8"  | 2'-8 7/16" | 3'-5 9/16" |
| 2          | 3'              | 3'                | 4'-6"          | 4'-0"            | 5'-3 3/8"  | 2'-8 7/16" | 3'-5 9/16" |
| 3          | 4'              | 2'                | 3'-6"          | 4'-0"            | 5'-7 1/8"  | 2'-4 5/8"  | 4'-7 7/16" |
| 4          | 4'              | 3'                | 4'-6"          | 4'-0"            | 5'-7 1/8"  | 2'-4 5/8"  | 4'-7 7/16" |
| 5          | 4'              | 4'                | 5'-6"          | 4'-0"            | 5'-7 1/8"  | 2'-4 5/8"  | 4'-7 7/16" |
| 6          | 5'              | 2'                | 3'-6"          | 4'-0"            | 5'-10 1/2" | 2'-1 1/2"  | 5'-9 5/8"  |
| 7          | 5'              | 3'                | 4'-6"          | 4'-0"            | 5'-10 1/2" | 2'-1 1/2"  | 5'-9 5/8"  |
| 8          | 5'              | 4'                | 5'-6"          | 4'-0"            | 5'-10 1/2" | 2'-1 1/2"  | 5'-9 5/8"  |
| 9          | 5'              | 5'                | 6'-6"          | 4'-0"            | 5'-10 1/2" | 2'-1 1/2"  | 5'-9 5/8"  |
| 10         | 6'              | 3'                | 4'-6"          | 5'-0"            | 7'-2"      | 2'-10"     | 6'-11 1/8" |
| 11         | 6'              | 4'                | 5'-6"          | 5'-0"            | 7'-2"      | 2'-10"     | 6'-11 1/8" |
| 12         | 6'              | 5'                | 6'-6"          | 5'-0"            | 7'-2"      | 2'-10"     | 6'-11 1/8" |
| 13         | 6'              | 6'                | 7'-6"          | 5'-0"            | 7'-2"      | 2'-10"     | 6'-11 1/8" |

| DESIGN NO. | CLASS AA CONCRETE    |                            | REINFORCING STEEL    |                                   | PIPE GRATES    |                  |
|------------|----------------------|----------------------------|----------------------|-----------------------------------|----------------|------------------|
|            | STANDARD DEPTH INLET | PER ADDITIONAL FT OF DEPTH | STANDARD DEPTH INLET | ADDITIONAL FOR EXTRA DEPTH INLETS | LENGTH OF PIPE | NUMBER OF GRATES |
| 1          | 2.8 CY               | 0.39 CY                    | 440 LBS              | 7 LBS+46 LBS/FT                   | 3'-0 3/4"      | 3                |
| 2          | 3.7 CY               | 0.45 CY                    | 530 LBS              | 7 LBS+50 LBS/FT                   | 4'-0 1/2"      | 3                |
| 3          | 3.5 CY               | 0.46 CY                    | 570 LBS              | 8 LBS+68 LBS/FT                   | 3'-0 3/4"      | 4                |
| 4          | 4.4 CY               | 0.51 CY                    | 680 LBS              | 8 LBS+73 LBS/FT                   | 4'-0 1/2"      | 4                |
| 5          | 5.6 CY               | 0.57 CY                    | 880 LBS              | 8 LBS+79 LBS/FT                   | 5'-0 3/8"      | 4                |
| 6          | 4.0 CY               | 0.52 CY                    | 670 LBS              | 9 LBS+74 LBS/FT                   | 3'-0 3/4"      | 5                |
| 7          | 4.9 CY               | 0.58 CY                    | 840 LBS              | 9 LBS+79 LBS/FT                   | 4'-0 1/2"      | 5                |
| 8          | 6.1 CY               | 0.63 CY                    | 980 LBS              | 9 LBS+85 LBS/FT                   | 5'-0 3/8"      | 5                |
| 9          | 7.4 CY               | 0.69 CY                    | 1130 LBS             | 9 LBS+90 LBS/FT                   | 6'-0 1/2"      | 5                |
| 10         | 6.5 CY               | 0.64 CY                    | 960 LBS              | 12 LBS+87 LBS/FT                  | 4'-0 1/2"      | 6                |
| 11         | 7.7 CY               | 0.7 CY                     | 1090 LBS             | 12 LBS+92 LBS/FT                  | 5'-0 3/8"      | 6                |
| 12         | 9.2 CY               | 0.75 CY                    | 1250 LBS             | 12 LBS+98 LBS/FT                  | 6'-0 1/2"      | 6                |
| 13         | 10.7 CY              | 0.81 CY                    | 1410 LBS             | 12 LBS+103 LBS/FT                 | 7'-0 1/4"      | 6                |

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
- MAXIMUM DEPTH OF DROP INLETS SHALL BE THE HEIGHT OF THE RCB CULVERT PLUS 15'-0".
- ALL REINFORCING STEEL SHALL HAVE A 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.
- INLET TOP OPENING SHALL HAVE 3' x 7.58 LBS/FT STD. WEIGHT STEEL, GALVANIZED, SCHEDULE 40, PIPE SAFETY GRATES INSTALLED PERPENDICULAR TO THE DIRECTION OF TRAFFIC AT 12" MAX. CENTERS. COST OF PIPE SAFETY GRATES AND ALL HARDWARE NEEDED FOR INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR THE INLET.
- PIPE GRATE ENDS SHALL BE HELD DOWN WITH 1/2" x 5/8" GALVANIZED BOLT, WASHER & NUT MEETING THE REQUIREMENTS OF ASTM F3125. BOLT THREADS, 1/4", SHALL REMAIN EXPOSED FOR INSTALLING GRATE.
- FOR 'T', 'U' AND 'W' DIMENSIONS, SEE BRIDGE STANDARD DRAWINGS.



TYPICAL GRATE DETAIL

▲ REINFORCING FOR ADDITIONAL DEPTH  
 FOR INLET DEPTHS GREATER THAN STANDARD DEPTH:  
 - 2 ADDITIONAL DH1 BARS WILL BE REQUIRED FOR EVERY 6" ADDITIONAL DEPTH.  
 - 2 ADDITIONAL DH2 BARS WILL BE REQUIRED FOR EVERY 6" ADDITIONAL DEPTH.  
 - DV1 BARS WILL HAVE TO BE EXTENDED BY LENGTH EQUAL TO ADDITIONAL DEPTH OF INLET.  
 - DV2 BARS WILL HAVE TO BE ADDED, WITH A LENGTH EQUAL TO ADDL. DEPTH PLUS 1'-8".

| BASIS OF PAYMENT |   |      |
|------------------|---|------|
| ITEM NO.         | ITEM                                      | UNIT |
| 611(G)           | INLET CDI 30SK RCB DES. ●                 | EA   |
| 611(H)           | ADD'L. DEPTH IN INLET CDI 30SK RCB DES. ● | VF   |

● DESIGN NUMBER SHALL BE SPECIFIED.

APPROVED BY ROADWAY ENGINEER: *[Signature]* DATE: 6/30/22  
 ROADWAY DESIGN DIVISION STANDARD

CAST-IN-PLACE CONCRETE DROP INLETS FOR 30 DEG. SKEW R.C. BOXES (3' x 2' TO 6' x 6')



2019 SPECIFICATIONS