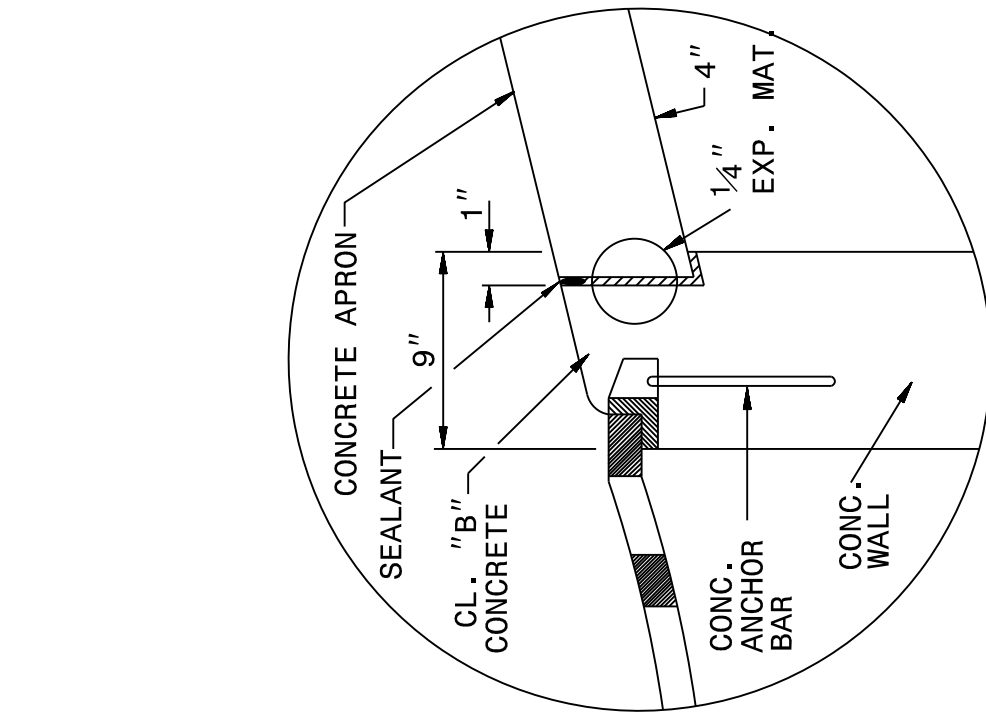
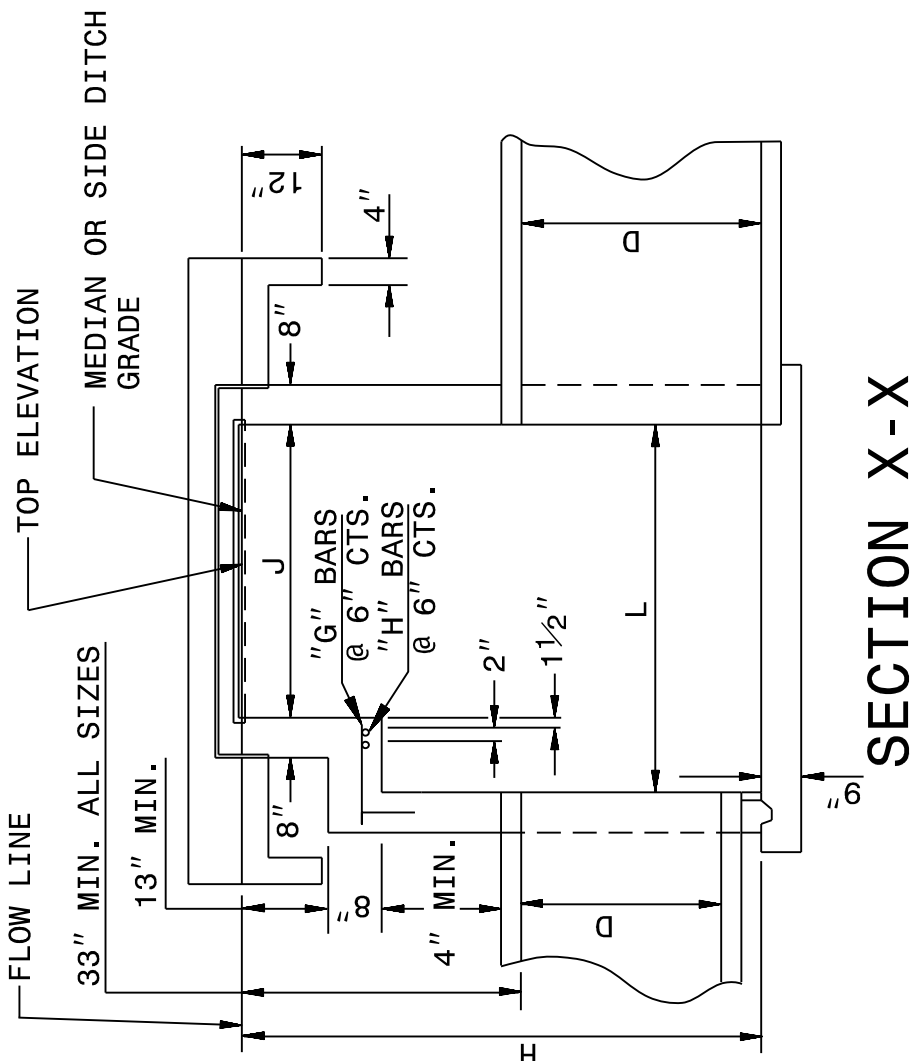
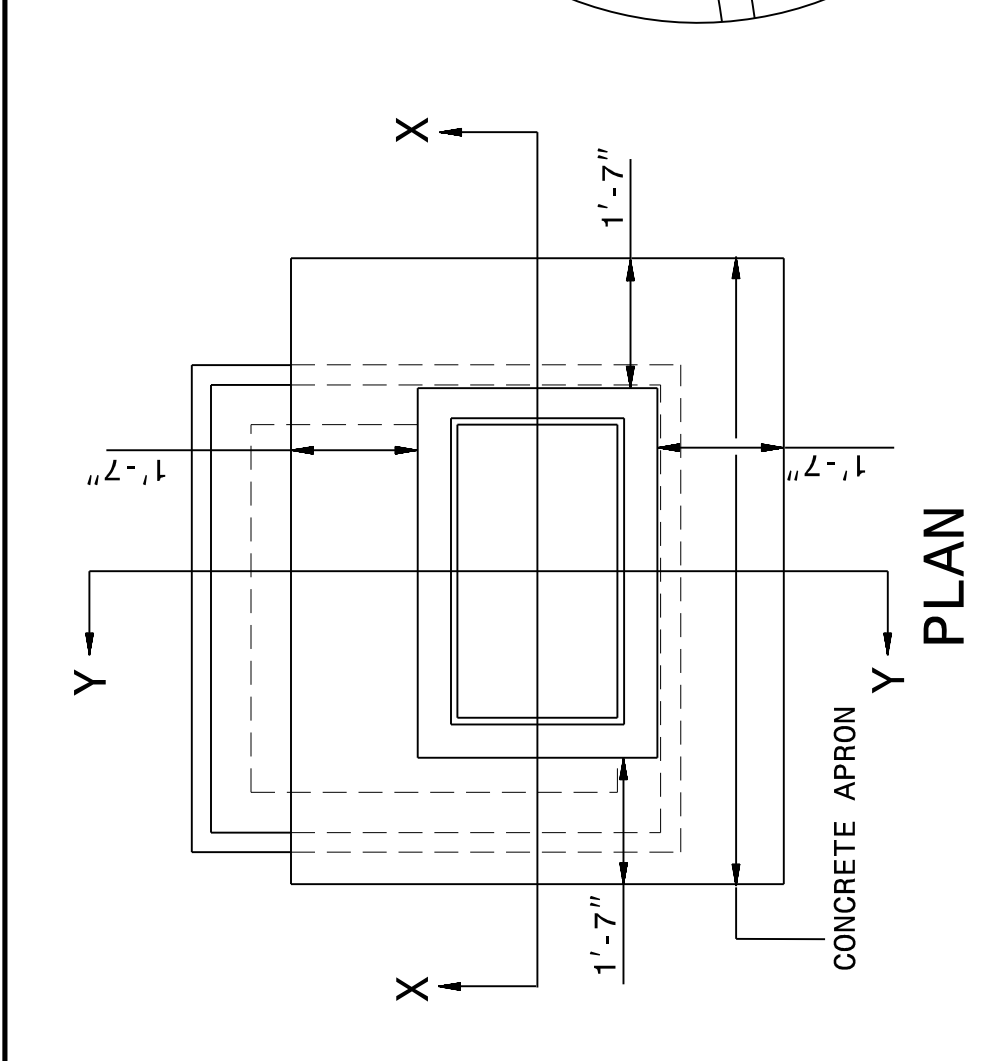


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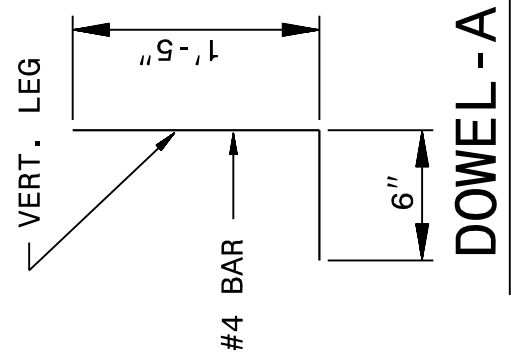
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DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
CONCRETE MEDIAN DROP INLET TYPE 'A'  
EXTRA DEPTH OVER 12' TO 25'  
12" THRU 72" PIPE

SHEET 1 OF 2  
840D17

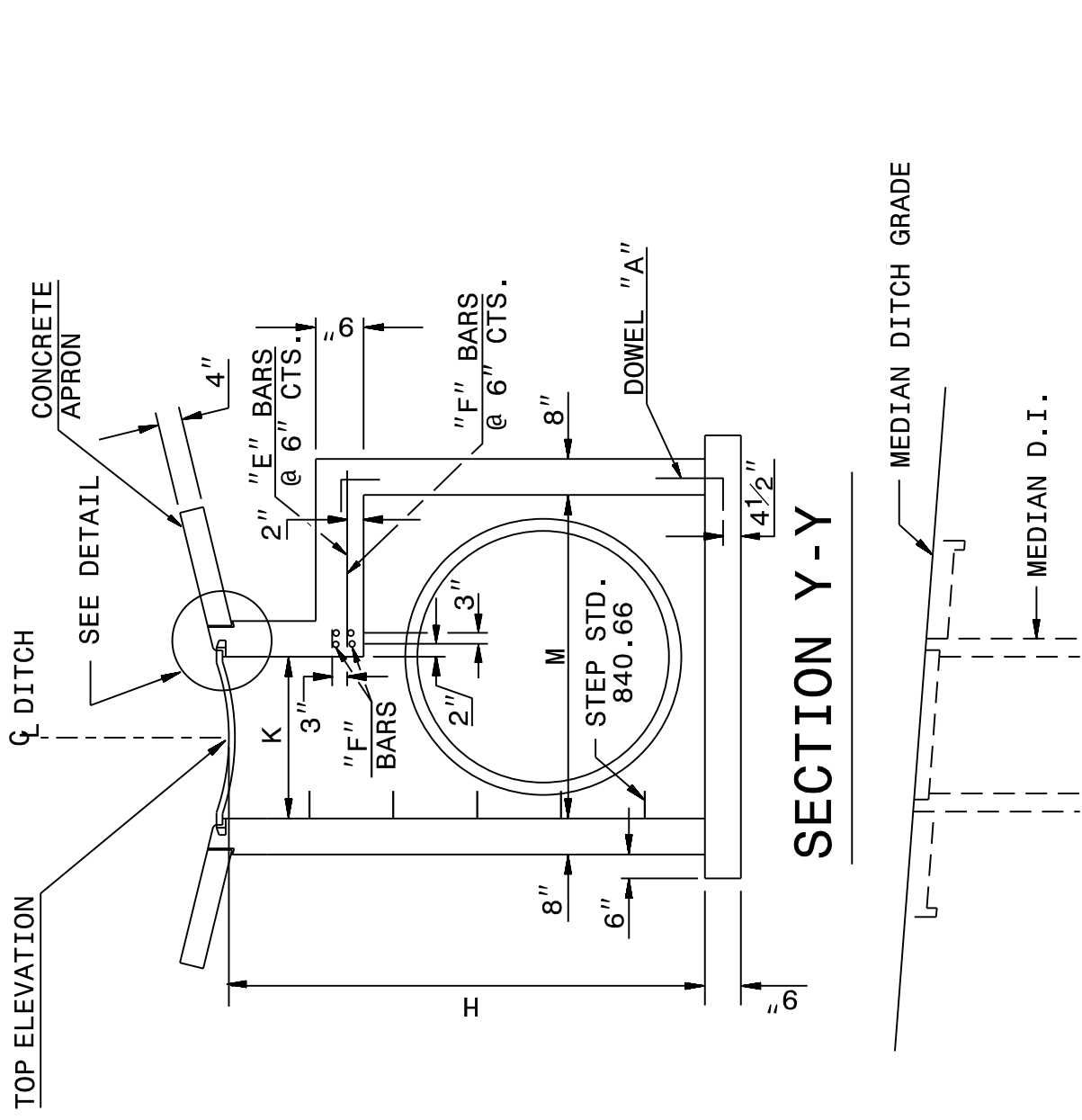


DETAIL  
(APRON SUPPORT NOTCH)



SECTION X-X

SECTION Y-Y



GENERAL NOTES:

- USE CLASS "B" CONCRETE THROUGHOUT.
- PROVIDE DROP INLETS WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
- OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
- USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
- IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
- WHEN PAYMENT FOR THE DROP INLET IS MADE ON A PER EACH BASIS, THE CONCRETE APRON WILL BE CONSIDERED PART OF THE DROP INLET.
- CONSTRUCT WITH PIPE CROWNS MATCHING.
- USE STANDARD FRAMES AND GRATES 840.22 (SHOWN), 840.24 (SHOWN), 840.20, 840.29, AND 840.33.
- SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
- CHAMFER ALL EXPOSED CORNERS 1".
- DRAWING NOT TO SCALE.
- MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 25 FEET.

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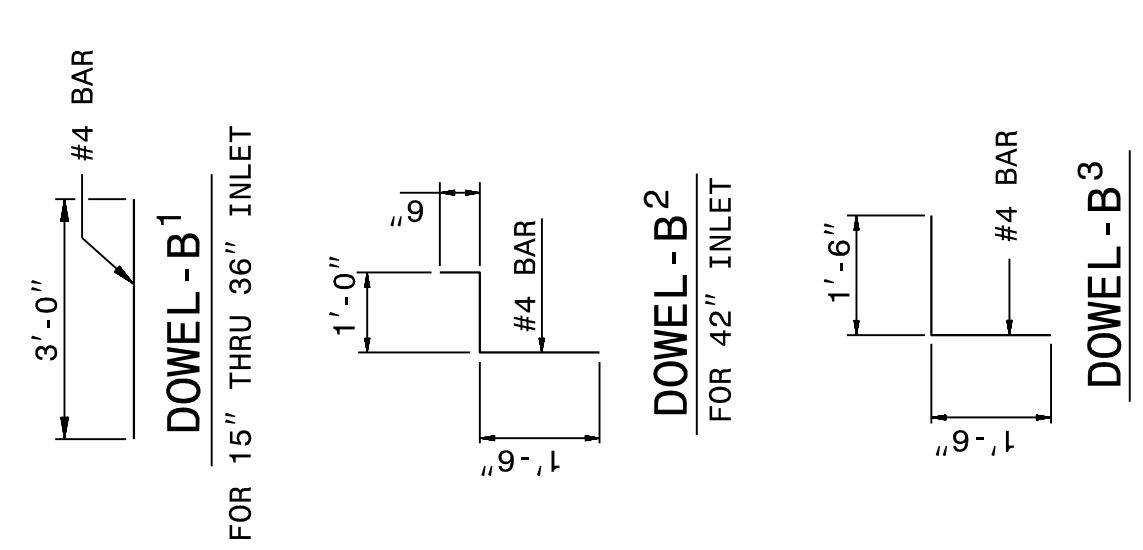
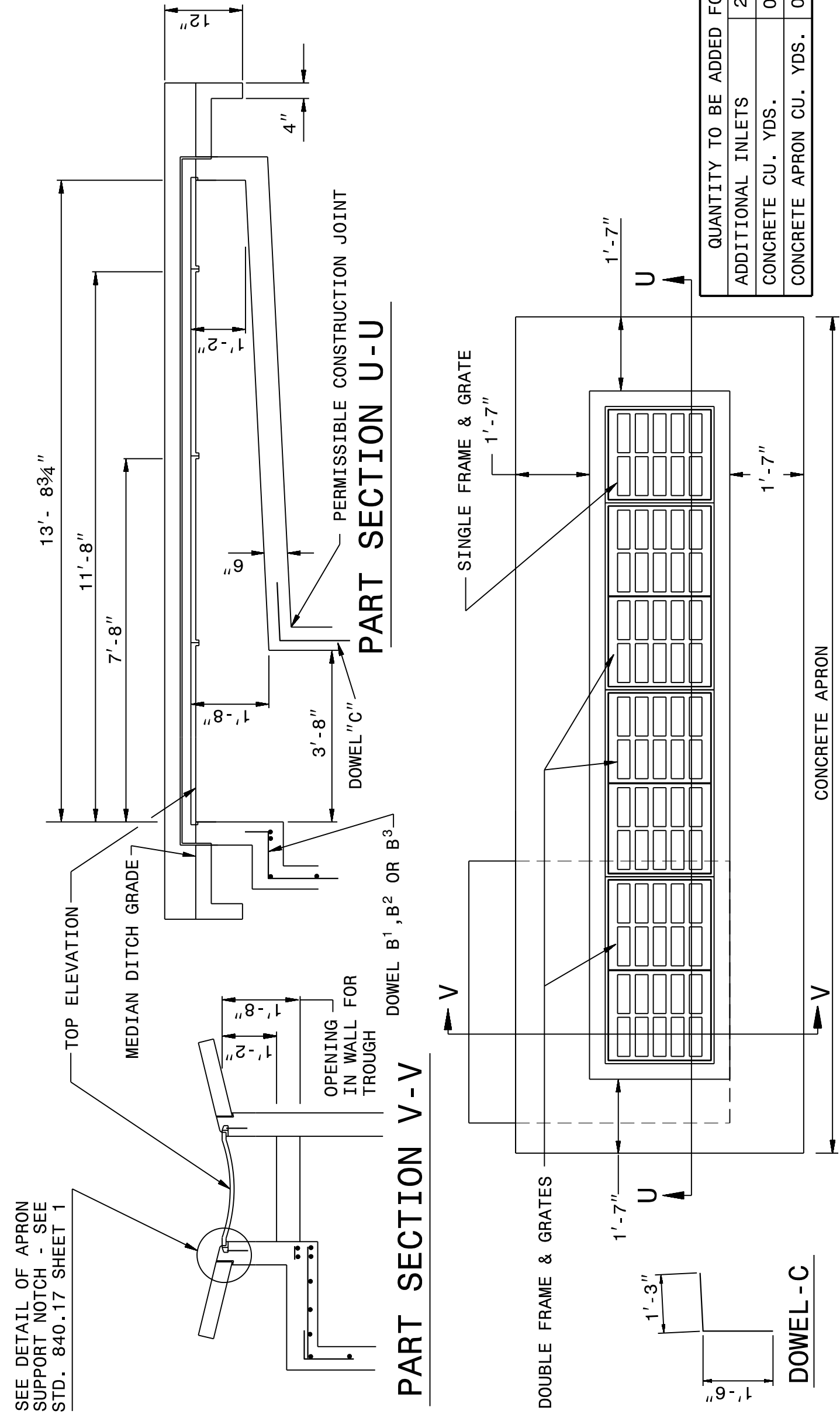
ENGLISH DETAIL DRAWING FOR  
CONCRETE MEDIAN DROP INLET TYPE 'A'  
EXTRA DEPTH OVER 12' TO 25'  
12" THRU 72" PIPE

SHEET 1 OF 2  
840D17

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ENGLISH DETAIL DRAWING FOR  
CONCRETE MEDIAN DROP INLET TYPE 'A'  
EXTRA DEPTH OVER 12' TO 25'  
12" THRU 72" PIPE

SHEET 2 OF 2  
840D17



| QUANTITY TO BE ADDED FOR EACH 2' INCREMENT INLET OPENING |       |       |       |       |               |
|----------------------------------------------------------|-------|-------|-------|-------|---------------|
| ADDITIONAL INLETS                                        | 2'-0" | 4'-0" | 6'-0" | 8'-0" | 10'-0" 12'-0" |
| CONCRETE CU. YDS.                                        | 0.191 | 0.417 | 0.665 | 0.897 | 1.145 1.380   |
| CONCRETE APRON CU. YDS.                                  | 0.074 | 0.148 | 0.222 | 0.296 | 0.370 0.444   |

| MIN. DIMENSIONS AND QUANTITIES FOR CONCRETE GRATED DROP INLET (BASED ON MIN. HEIGHT, H) |       |       |       |       |                                |        |        |        |        |
|-----------------------------------------------------------------------------------------|-------|-------|-------|-------|--------------------------------|--------|--------|--------|--------|
| DIMENSIONS OF BOX AND PIPE                                                              |       |       |       |       | REINFORCING STEEL - NO. 4 BARS |        |        |        |        |
| PIPE                                                                                    | SPAN  | WIDTH | SPAN  | WIDTH | HEIGHT                         | BARS E | BARS F | BARS G | BARS H |
| D                                                                                       | J     | K     | L     | M     | H                              | NO.    | LENGTH | NO.    | LENGTH |
| 12"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 3'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 15"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 4'-0"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 18"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 4'-3"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 24"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 4'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 30"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 5'-3"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 36"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 5'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 42"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 6'-3"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 48"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 6'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 54"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 7'-3"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 60"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 7'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 66"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 8'-3"                          | 8      | 4'-9"  | 8      | 4'-11" |
| 72"                                                                                     | 3'-8" | 2'-0" | 3'-8" | 2'-0" | 8'-9"                          | 8      | 4'-9"  | 8      | 4'-11" |

CONTRACT STANDARDS  
AND DEVELOPMENT UNIT  
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD.840.17 DATE: 07-06-09  
MODIFIED BY: K.A. KEMPF DATE: 07-06-09  
CHECKED BY: DATE: 07-06-09  
FILE SPEC.: /stand/840d17 Extra Depth 2G1.dgn



10/13/2025

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UNLESS ALL SIGNATURES COMPLETED