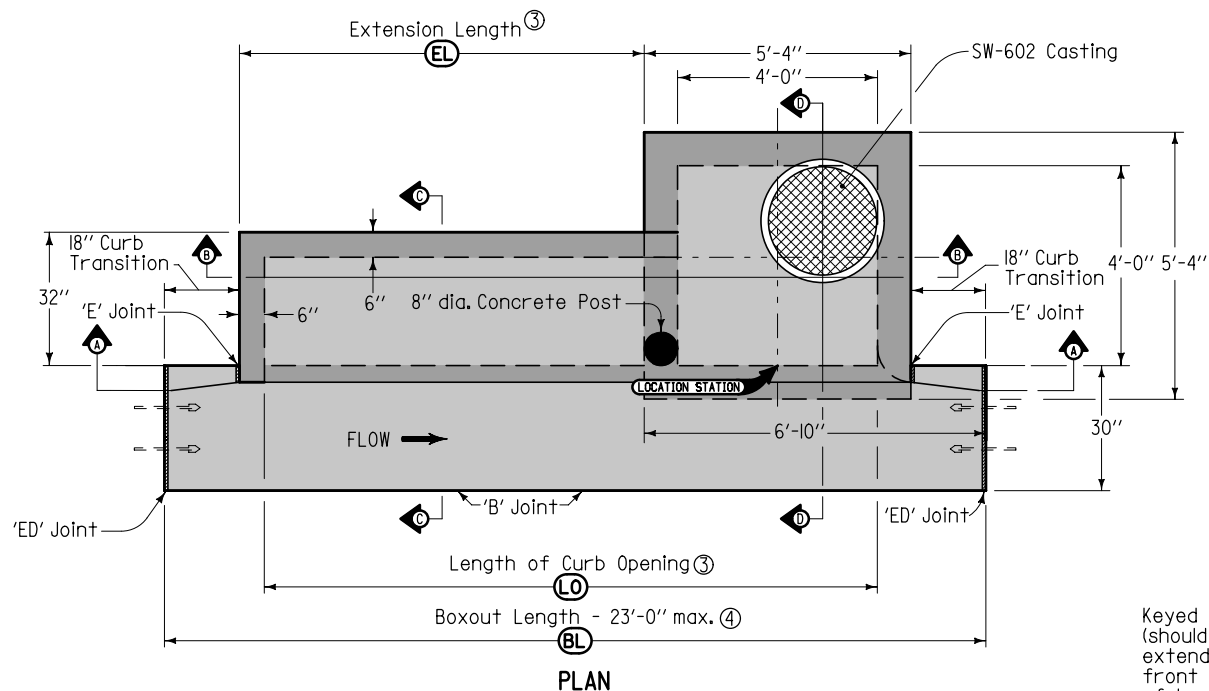
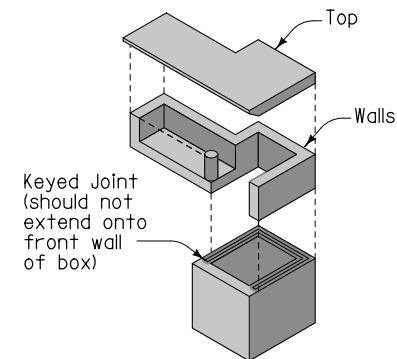


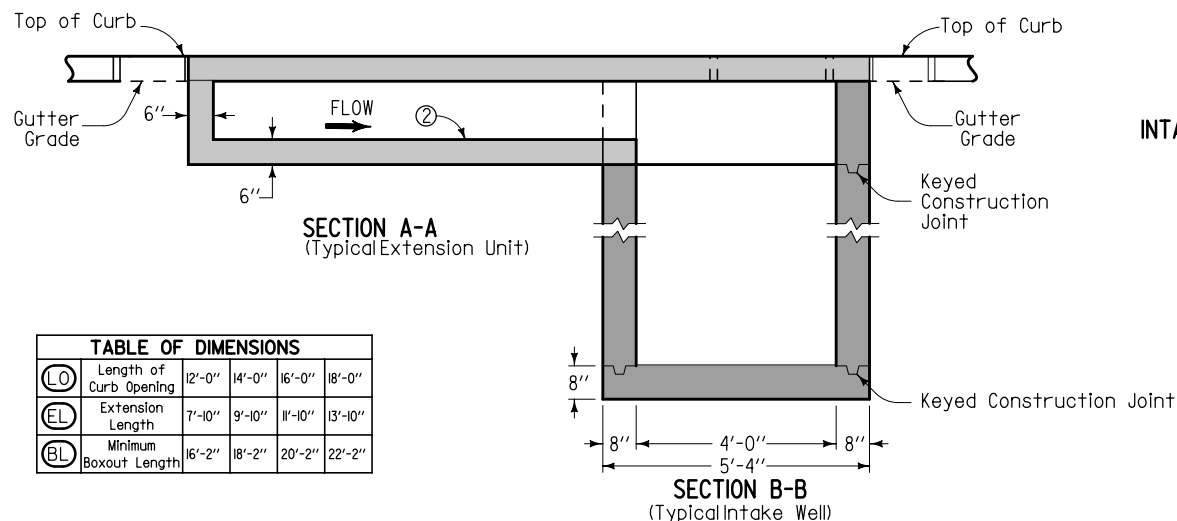


Extension unit may be used on either or both sides of intake. Details are similar when extension unit is on the opposite side. For joint details, refer to PV-1.

- ② Match gutter slope. Drain to well.
- ③ Other lengths of opening may be constructed by varying the length of the extension and the rebar.
- ④ Includes 2 inches for 'ED' Joints.



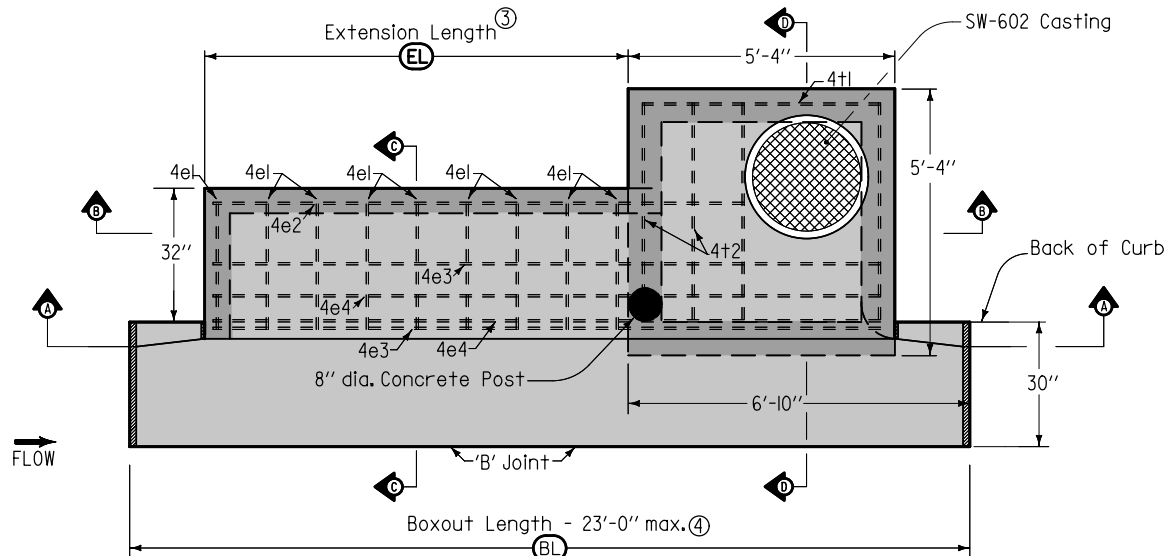
ISOMETRIC  
INTAKE WELL, WALLS AND TOP



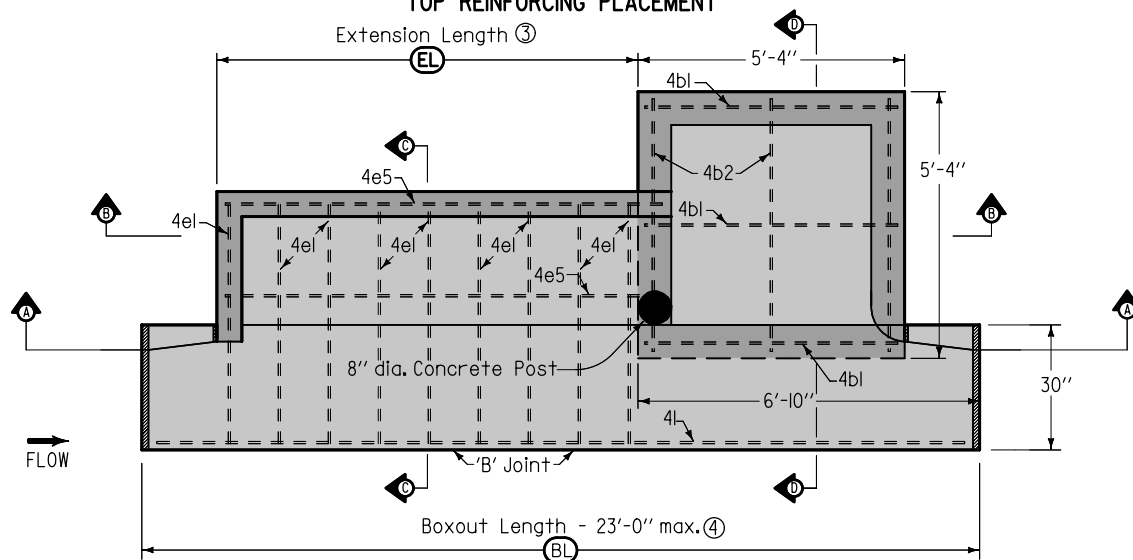
Possible Contract Item:

Intake, SW-545

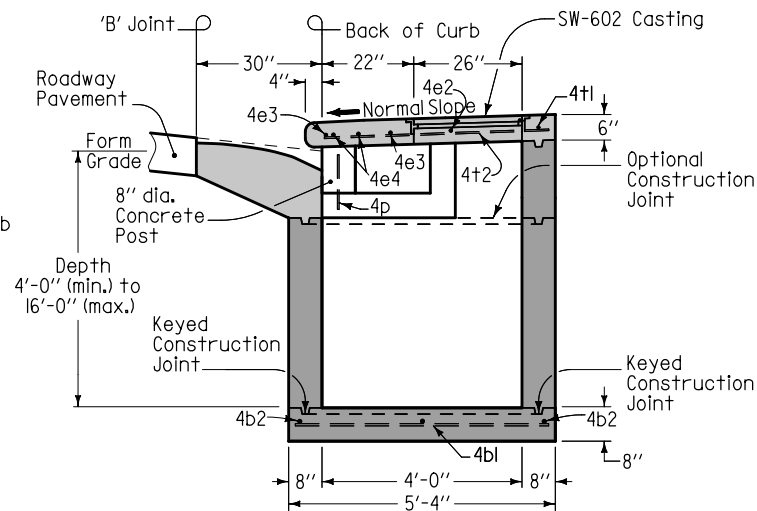
|                                                                     |          |               |
|---------------------------------------------------------------------|----------|---------------|
|                                                                     | REVISION |               |
|                                                                     | 1        | 04-20-10      |
| <b>STANDARD ROAD PLAN</b>                                           |          | <b>SW-545</b> |
| REVISIONS: Updated references to renamed standards.                 |          | SHEET 1 of 3  |
| APPROVED BY DESIGN METHODS ENGINEER<br><i>Deanna Mifflin</i>        |          |               |
| <b>SINGLE OPEN-THROAT<br/>CURB INTAKE WITH<br/>EXTENDED OPENING</b> |          |               |



PLAN  
TOP REINFORCING PLACEMENT



PLAN  
BOTTOM REINFORCING PLACEMENT



SECTION D-D

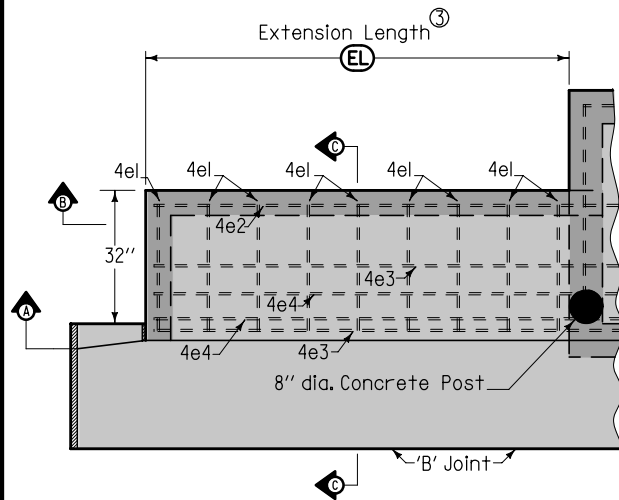
REINFORCING BAR LIST  
Intake Well

| MARK  | LOCATION | NO. | LENGTH | WEIGHT  | SPACING    |
|-------|----------|-----|--------|---------|------------|
| 4b1   | Base     | 3   | 5'-0"  | 10.0    | 2'-4"      |
| 4b2   | Base     | 3   | 5'-0"  | 10.0    | 2'-4"      |
| 4t1   | Top      | 1   | 5'-0"  | 3.3     | 12"        |
| 4t2   | Top      | 4   | 4'-6"  | 12.0    | See Detail |
| 4p    | Post     | 1   | 13"    | 0.7     |            |
| Total |          |     |        | 36 lbs. |            |

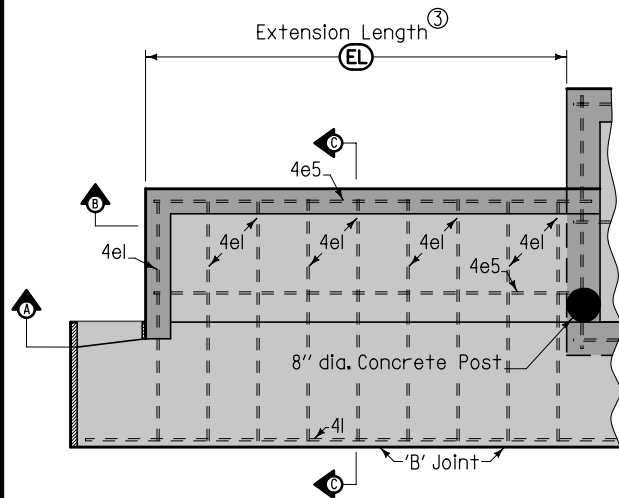
③ Other lengths of opening may be constructed by varying the length of the extension and the rebars.

④ Includes 2 inches for 'ED' Joints.

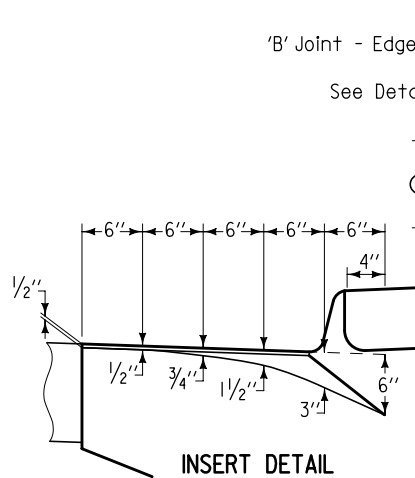
|                                                                                                                                                               |                                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| <br><b>STANDARD ROAD PLAN</b><br><small>REVISIONS: Updated references to renamed standards.</small><br><br><small>APPROVED BY DESIGN METHODS ENGINEER</small> | <small>REVISION</small><br>1 04-20-10                       |  |
|                                                                                                                                                               | <b>SW-545</b>                                               |  |
|                                                                                                                                                               | <small>SHEET 2 of 3</small>                                 |  |
|                                                                                                                                                               | <b>SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING</b> |  |



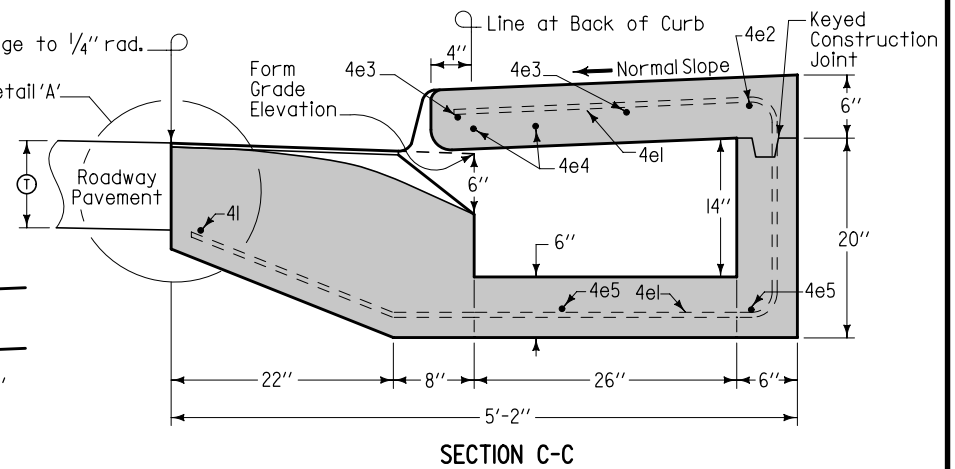
PLAN  
TOP OF EXTENSION REINFORCING PLACEMENT



PLAN  
BOTTOM OF EXTENSION REINFORCING PLACEMENT



INSERT DETAIL

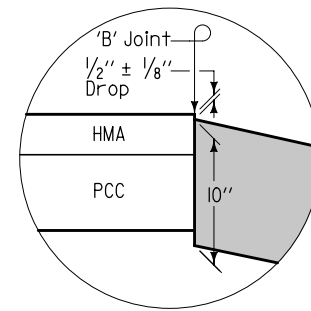


SECTION C-C

| REINFORCING BAR LIST (LO) = 12'-0" |      |          |     |           |            |         |
|------------------------------------|------|----------|-----|-----------|------------|---------|
| MARK                               | SIZE | LOCATION | NO. | LENGTH    | MASS       | SPACING |
| 4e1                                | 4    | Top/Base | 9   | 9'-5 1/2" | 56.9       | 12"     |
| 4e2                                | 4    | Top      | 1   | 10'-0"    | 6.7        |         |
| 4e3                                | 4    | Top      | 2   | 12'-9"    | 17.0       | 15 1/2" |
| 4e4                                | 4    | Top      | 2   | 12'-9"    | 17.0       | 6"      |
| 4e5                                | 4    | Base     | 2   | 8'-2"     | 10.9       | 22"     |
| 4I *                               | 4    | Insert   | 1   | 15'-10"   | 10.6       |         |
| • With 16'-6" Boxout.              |      |          |     | Total     | 119.1 lbs. |         |

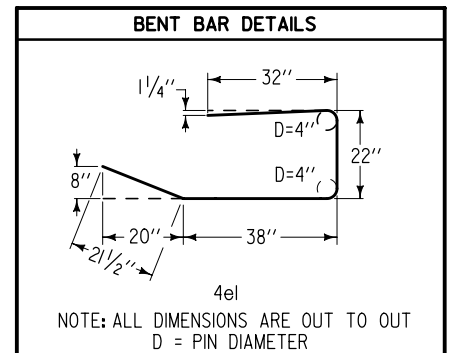
| REINFORCING BAR LIST (LO) = 14'-0" |      |          |     |           |            |         |
|------------------------------------|------|----------|-----|-----------|------------|---------|
| MARK                               | SIZE | LOCATION | NO. | LENGTH    | MASS       | SPACING |
| 4e1                                | 4    | Top/Base | 11  | 9'-5 1/2" | 69.5       | 12"     |
| 4e2                                | 4    | Top      | 1   | 12'-0"    | 8.0        |         |
| 4e3                                | 4    | Top      | 2   | 14'-9"    | 19.7       | 15 1/2" |
| 4e4                                | 4    | Top      | 2   | 14'-9"    | 19.7       | 6"      |
| 4e5                                | 4    | Base     | 2   | 10'-2"    | 13.6       | 22"     |
| 4I *                               | 4    | Insert   | 1   | 17'-10"   | 11.9       |         |
| • With 18'-6" Boxout.              |      |          |     | Total     | 142.4 lbs. |         |

| REINFORCING BAR LIST (LO) = 16'-0" |      |          |     |           |            |         |
|------------------------------------|------|----------|-----|-----------|------------|---------|
| MARK                               | SIZE | LOCATION | NO. | LENGTH    | MASS       | SPACING |
| 4e1                                | 4    | Top/Base | 13  | 9'-5 1/2" | 82.1       | 12"     |
| 4e2                                | 4    | Top      | 1   | 14'-0"    | 9.3        |         |
| 4e3                                | 4    | Top      | 2   | 16'-9"    | 22.4       | 15 1/2" |
| 4e4                                | 4    | Top      | 2   | 16'-9"    | 22.4       | 6"      |
| 4e5                                | 4    | Base     | 2   | 12'-2"    | 16.2       | 22"     |
| 4I *                               | 4    | Insert   | 1   | 19'-10"   | 13.2       |         |
| • With 20'-6" Boxout.              |      |          |     | Total     | 165.6 lbs. |         |



DETAIL 'A'

Use when adjacent pavement is HMA or composite.



NOTE: ALL DIMENSIONS ARE OUT TO OUT  
D = PIN DIAMETER

③ Other lengths of opening may be constructed by varying the length of the extension and the rebars.

|                                                             |                                                     |  |
|-------------------------------------------------------------|-----------------------------------------------------|--|
| <br><b>STANDARD ROAD PLAN</b>                               | REVISION<br>1 04-20-10                              |  |
|                                                             | <b>SW-545</b>                                       |  |
|                                                             | SHEET 3 of 3                                        |  |
|                                                             | REVISIONS: Updated references to renamed standards. |  |
| Deanna Mailfield<br>APPROVED BY DESIGN METHODS ENGINEER     |                                                     |  |
| <b>SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING</b> |                                                     |  |