

WITH BAFFLES

ENDWALLS FOR 1:2 SLOPES

30"

4.9/

5'-9" 2'-10<u>1</u>" 4'-10"

WITHOUT BAFFLES

1.88

64



GENERAL NOTES

I. Baffles to be constructed only when called for in plans.

2. When steel grating is required on endwall see Sheet 3 of 3 for details.

3. All reinforcing No. 4 bars with 2" clearance except as noted.

4. All angles, channels and bars shall be ASTM A242/A242M, A572/A572M or A588/A588M Grade 50 steel. When designated Alternate G in the plans galvanize in accordance with Section 962 and 425-3.2 of the Standard Specifications.

5. Channel section C 3 x 6 may be substituted for C 4 x 5.4 channel.

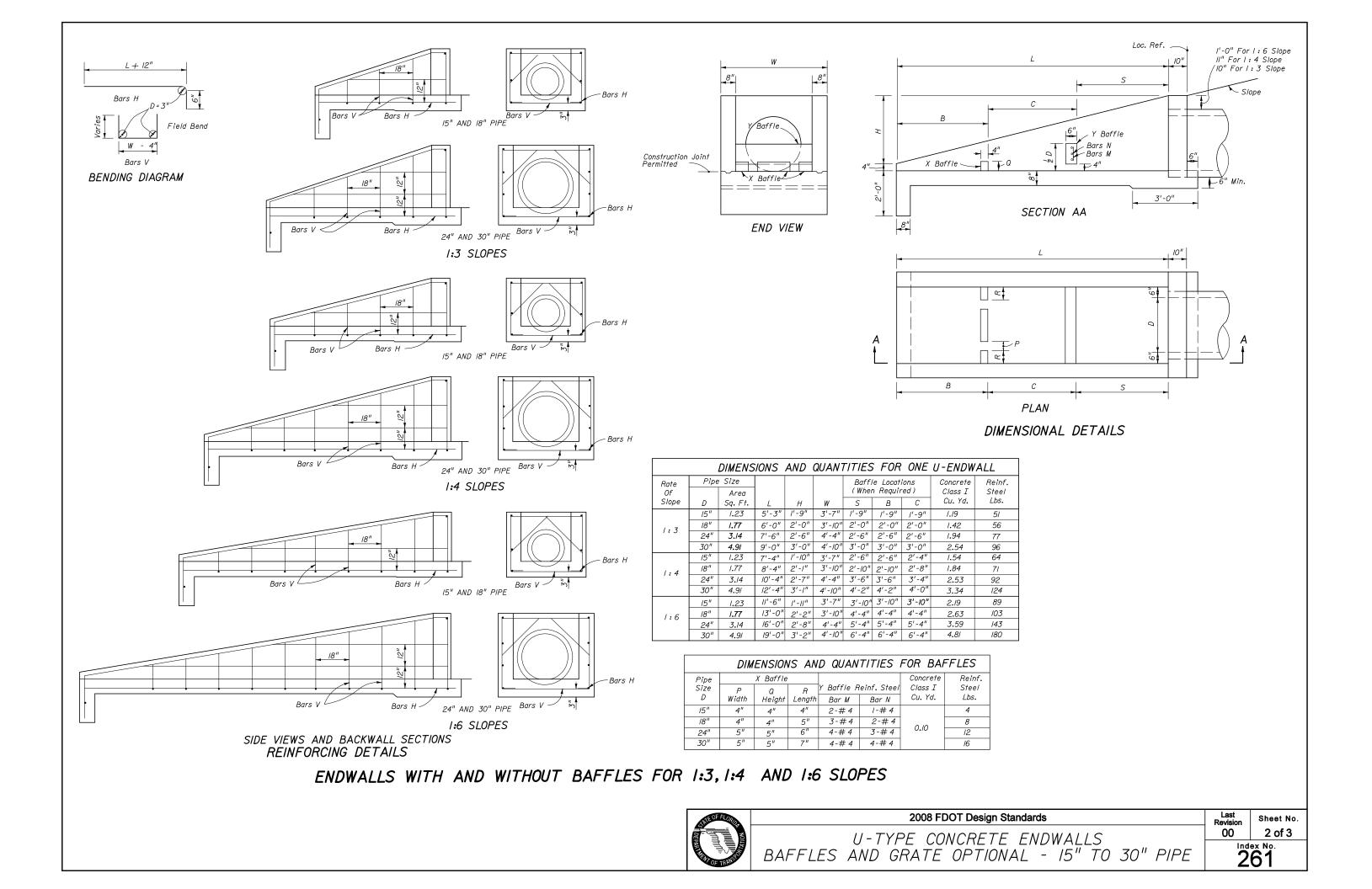
6. Precasting of this endwall will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer. Use Index No. 20I for opening and grouting details.

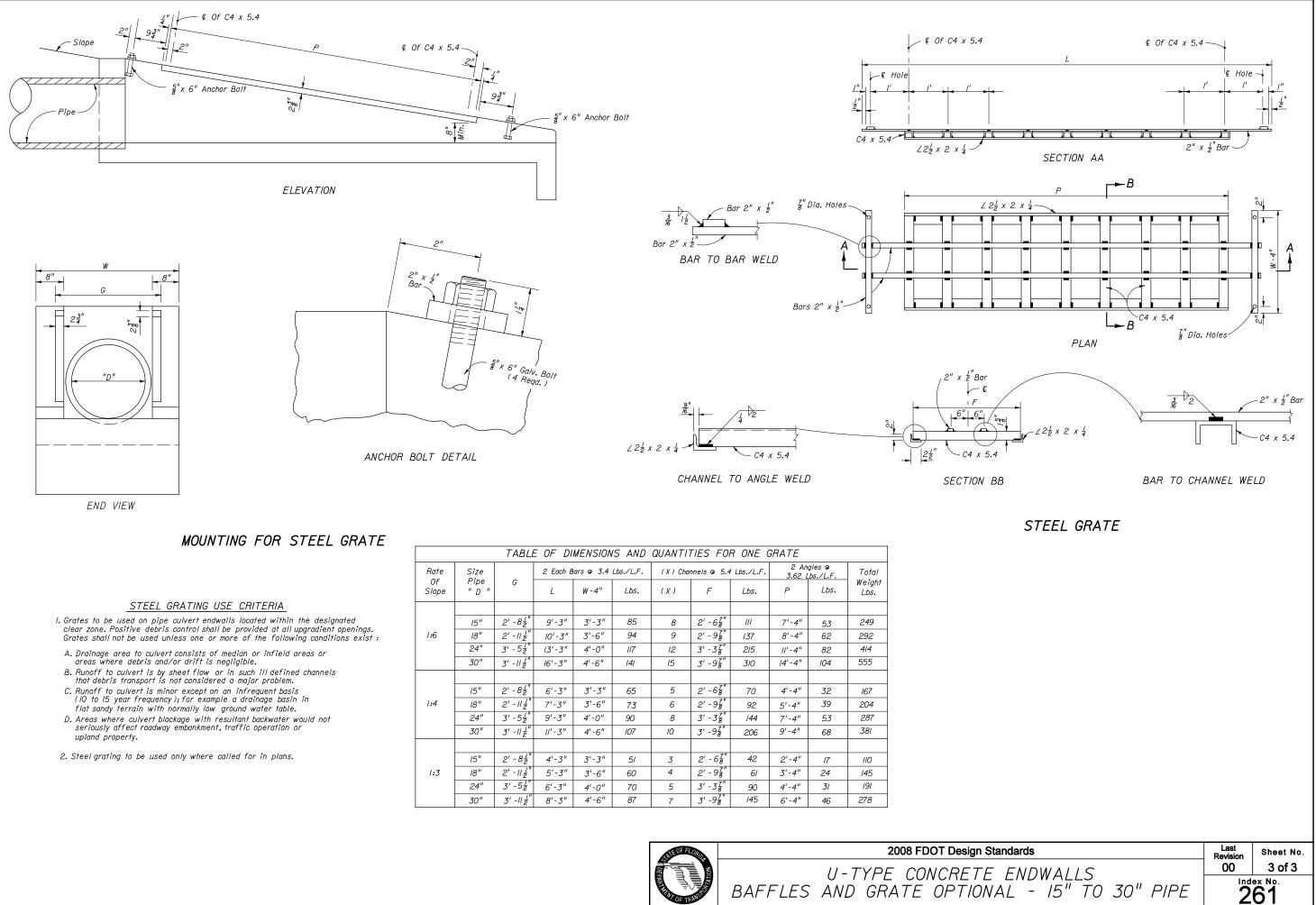
7. Concrete meeting the requirements of ASTM C-478 (4000 psi) may be used in lieu of Class I concrete in precast units manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.

8. Sodding shall be in accordance with Index No. 281, and paid for under the contract unit price for Performance Turf, SY.

9. Endwall to be paid for under the contract unit price for U-Endwall, Each. Payment shall include cost of concrete, reinforcing steel, and when called for in the plans, steel grating, baffles and accessories. Quantities shown are for estimating purposes only.

| 2008 FDOT Design Standards | Last Revision | Sheet No. |
|--|------------------|-----------------|
| U-TYPE CONCRETE ENDWALLS | 07/01/07 | 1 of 3 |
| BAFFLES AND GRATE OPTIONAL - 15" TO 30" PIPE | 2 | [™] 61 |





| TABLE OF DIMENSIONS AND QUANTITIES FOR ONE GRATE | | | | | | | | | | | |
|--|-------------|--------------------|-----------------------------|-------|------|------------------------------|-----------------------|------|------------------------------|------|----------------|
| Rate | Size | | 2 Each Bars @ 3.4 Lbs./L.F. | | | (X) Channels @ 5.4 Lbs./L.F. | | | 2 Angles @ 3.62 Lbs./L.F. | | Total |
| Of Slope | Pipe "D" | | L | W-4″ | Lbs. | (X) | F | Lbs. | Ρ | Lbs. | Weight Lbs. |
| /:6 | | | | | | | | | | | |
| | 15" | 2' -8 <u>1</u> " | 9'-3" | 3'-3" | 85 | 8 | 2' - 6 <u>7</u> " | /// | 7'-4" | 53 | 249 |
| | 18" | 2' -// <u>/</u> " | 10'-3" | 3'-6" | 94 | 9 | 2' - 9 <u>7</u> " | 137 | 8'-4" | 62 | 292 |
| | 24" | 3' - 5 <u>1</u> " | /3'-3" | 4'-0" | 117 | 12 | 3' - 3 <u>7</u> " | 2/5 | //'-4" | 82 | 414 |
| | 30" | 3' -// <u>/</u> " | 16'-3" | 4'-6" | 4 | /5 | 3' -9 <u>7</u> " | 3/0 | /4'-4" | 104 | 555 |
| 1:4 | | | | | | | | | | | |
| | /5″ | 2' - 8 <u>1</u> " | 6'-3" | 3'-3" | 65 | 5 | 2' - 6 <u>7</u> " | 70 | 4'-4" | 32 | 167 |
| | 18" | 2' - // <u>1</u> " | 7'-3" | 3'-6" | 73 | 6 | 2' - 9 <u>7</u> " | 92 | 5'-4" | 39 | 204 |
| | 24" | 3' -5 <u>/</u> " | 9'-3" | 4'-0" | 90 | 8 | 3' - 3 7 " | 44 | 7'-4" | 53 | 287 |
| | 30" | 3' -// <u>/</u> " | //'-3" | 4'-6" | 107 | 10 | 3' -9 <u>7</u> " | 206 | 9'-4" | 68 | 38/ |
| /:3 | | | | | | | | | | | |
| | /5″ | 2' - 8 <u>1</u> " | 4'-3" | 3'-3" | 5/ | 3 | 2' - 6 <u>7</u> " | 42 | 2'-4" | 17 | 110 |
| | 18" | 2' - // <u>/</u> " | 5'-3" | 3'-6" | 60 | 4 | 2' - 9 <u>7</u> " | 6/ | 3'-4" | 24 | 145 |
| | 24" | 3' -5 <u></u> | 6'-3" | 4'-0" | 70 | 5 | 3' -3 <u>7</u> " | 90 | 4'-4" | 31 | 191 |
| | 30" | 3' -// <u>/</u> " | 8'-3" | 4'-6" | 87 | 7 | 3' -9 <u>7</u> " | /45 | 6'-4" | 46 | 278 |

