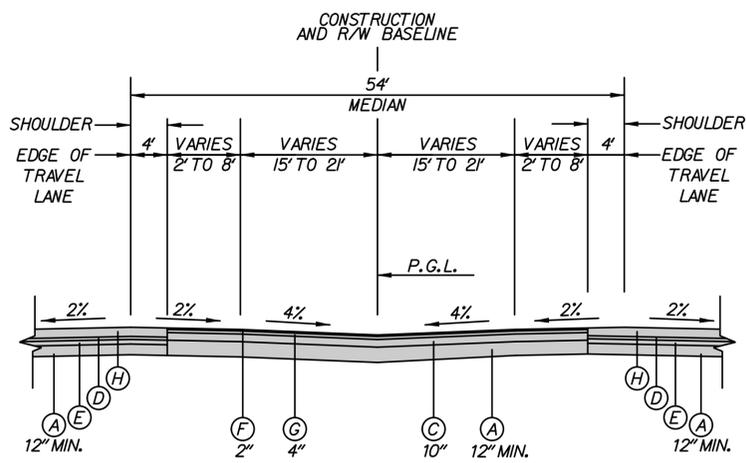


LEGEND

- (A) ITEM 209001 - BORROW, TYPE A
- (B) ITEM 209006 - BORROW, TYPE F
- (C) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (D) ITEM 304501 - PERMEABLE TREATED BASE, 4"
- (E) ITEM 304502 - SOIL CEMENT BASE COURSE, 6"
- (F) ITEM 401801 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (G) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (H) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (I) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (J) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31
- (K) ITEM 727000 - RIGHT OF WAY FENCE
- (L) ITEM 733002 - TOPSOILING, 6"
- ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (M) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5
- (N) ITEM 701016 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4
- (O) ITEM 760017 - RUMBLE STRIPS, CONCRETE

NOTES:

1. THE MAXIMUM ALGEBRAIC DIFFERENCE BETWEEN THE TRAVELED WAY SLOPE AND THE SHOULDER SLOPE SHALL NOT EXCEED 8%
2. SHOULDER SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVELED WAY SLOPE WHEN SUPERELEVATION IS GREATER THAN 4%
3. SEE GRADES AND GEOMETRICS SHEETS FOR CROSS SLOPE TRANSITION
4. PGA - POINT OF GRADE APPLICATION
PDGA - POINT OF DITCH GRADE APPLICATION
POR - POINT OF ROTATION
PGL - PROFILE GRADE LINE
5. THE MAXIMUM LIFTS FOR THE INDIVIDUAL PAVING MATERIALS ARE AS FOLLOWS:
SUPERPAVE, TYPE C HOT-MIX - 2"
SUPERPAVE, TYPE B HOT-MIX - 3"
SUPERPAVE BIT. CONC. BASE COURSE - 4"
GRADED AGGREGATE BASE COURSE - 8"
6. SEE SHEET DT-02 FOR RUMBLE STRIP LOCATIONS

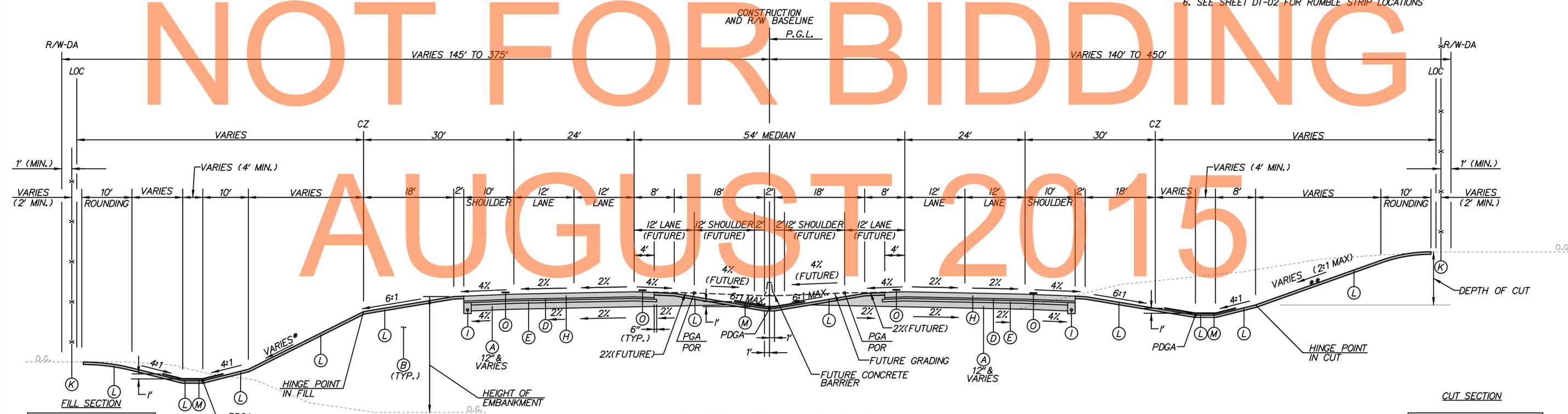


DRAFT

**EMERGENCY CROSSOVER DETAIL
STA. 622+50.00 TO STA. 630+62.00**

NOT FOR BIDDING

AUGUST 2015



US 301 NORMAL SECTION

**STATION 594+37.17 TO STATION 644+86.31
STATION 674+61.46 TO STATION 682+00.00**

***FILL SLOPE RATIO CHART**

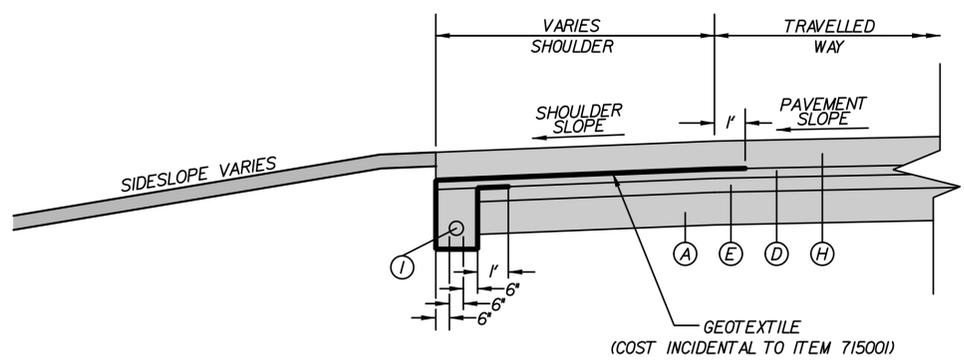
| HEIGHT OF EMBANKMENT | SLOPE RATIO |
|----------------------|--------------------|
| 0'-5' | 6:1 |
| >5'-10' | 4:1 |
| >10'-15' | 3:1 |
| >15' | 2:1 WITH GUARDRAIL |

****CUT SLOPE RATIO CHART**

| DEPTH OF CUT | SLOPE RATIO |
|--------------|-------------|
| 0'-5' | 4:1 |
| >5'-10' | 3:1 |
| >10' | 2:1 |

LEGEND

- (A) ITEM 209001 - BORROW, TYPE A
- (B) ITEM 209006 - BORROW, TYPE F
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- (F) ITEM 401801 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (G) ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (H) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
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- (J) ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31
- (K) ITEM 727000 - RIGHT OF WAY FENCE
- (L) ITEM 733002 - TOPSOILING, 6"
- ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
- (M) ITEM 735535 - SOIL RETENTION BLANKET MULCH, TYPE 5
- (N) ITEM 701016 - INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4
- (O) ITEM 760017 - RUMBLE STRIPS, CONCRETE



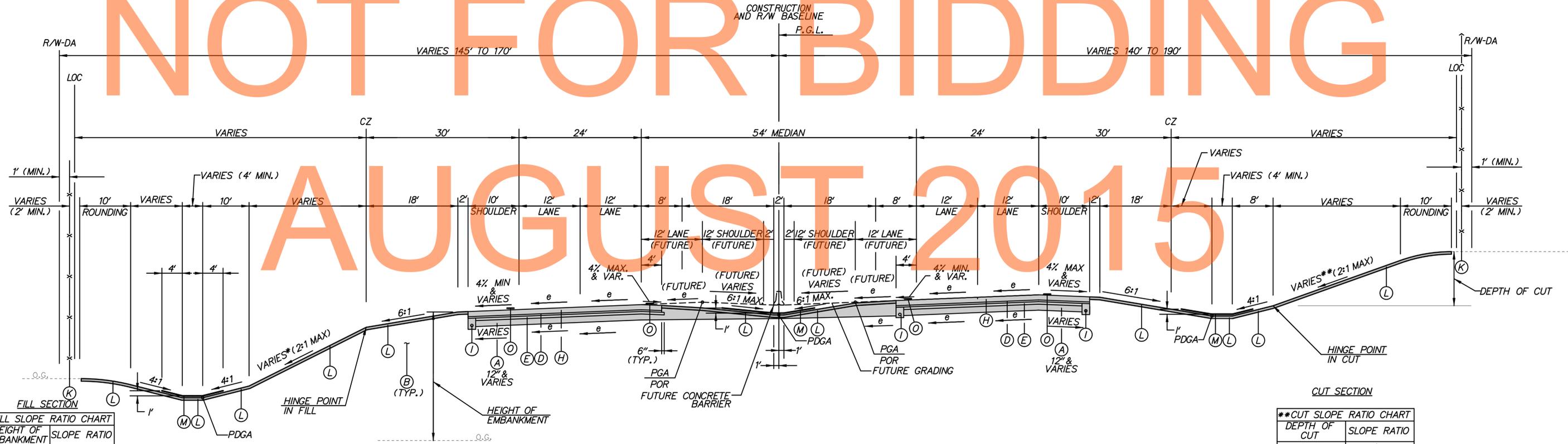
US 301 MAINLINE UNDERDRAIN DETAIL
(WHERE SHOWN ON PLANS)

- NOTES:**
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 GRADED AGGREGATE BASE COURSE - 8"
 6. SEE SHEET DT-02 FOR RUMBLE STRIP LOCATIONS

DRAFT

NOT FOR BIDDING

AUGUST 2015



***FILL SLOPE RATIO CHART**

| HEIGHT OF EMBANKMENT | SLOPE RATIO |
|----------------------|--------------------|
| 0'-5' | 6:1 |
| >5'-10' | 4:1 |
| >10'-15' | 3:1 |
| >15' | 2:1 WITH GUARDRAIL |

US 301 SUPERELEVATED SECTION
STATION 644+86.31 TO STATION 674+61.46 (e max.=5.4%)

****CUT SLOPE RATIO CHART**

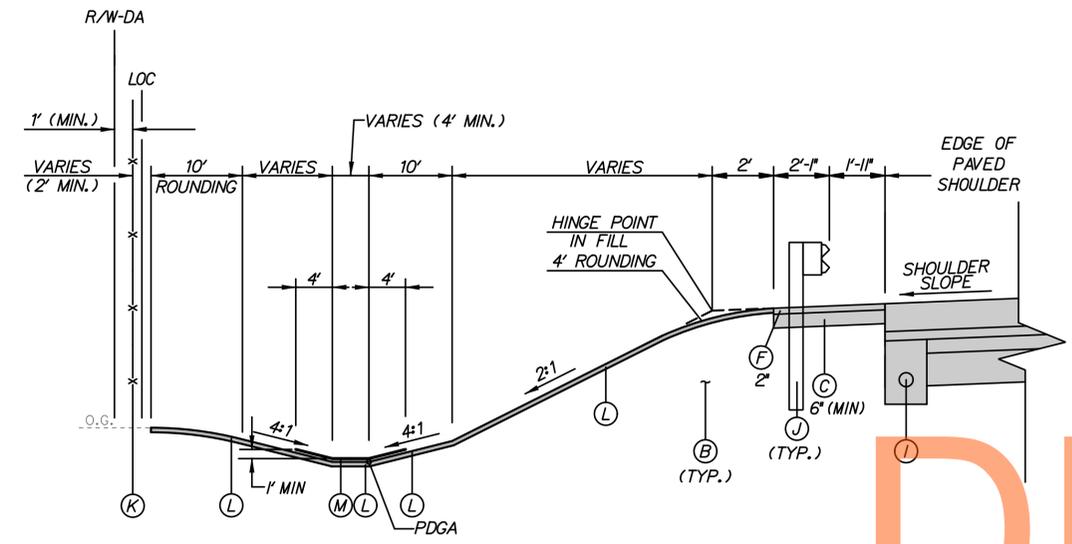
| DEPTH OF CUT | SLOPE RATIO |
|--------------|-------------|
| 0'-5' | 4:1 |
| >5'-10' | 3:1 |
| >10' | 2:1 |

LEGEND

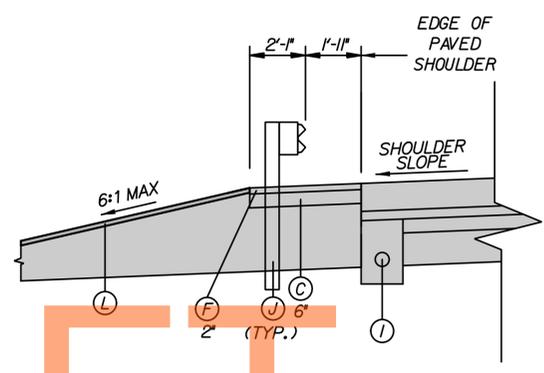
- (A) ITEM 209001 - BORROW, TYPE A
- (B) ITEM 209006 - BORROW, TYPE F
- (C) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (D) ITEM 304501 - PERMEABLE TREATED BASE, 4"
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- (O) ITEM 760017 - RUMBLE STRIPS, CONCRETE

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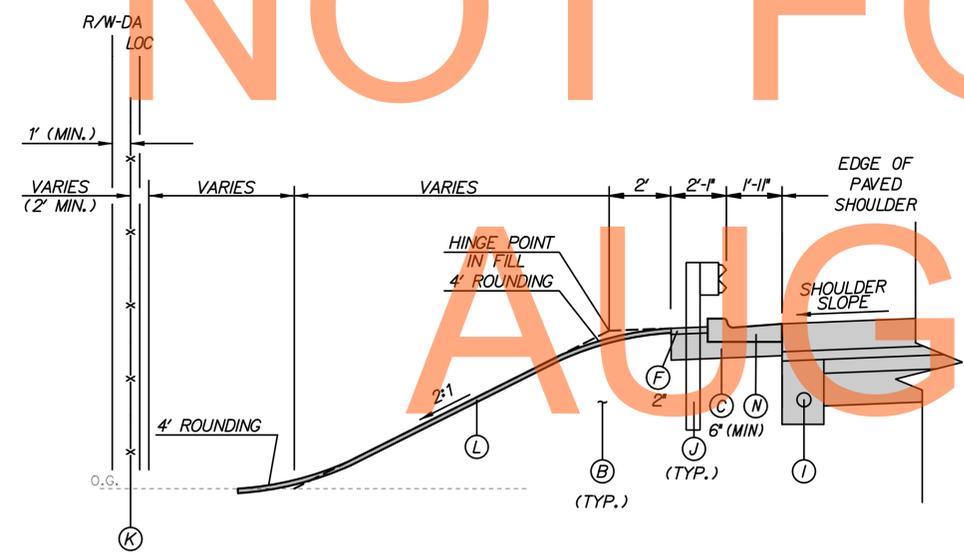


**GUARDRAIL DETAIL
WITHOUT CURB &
WITH DRAINAGE DITCH**
(WHERE SHOWN ON PLANS)

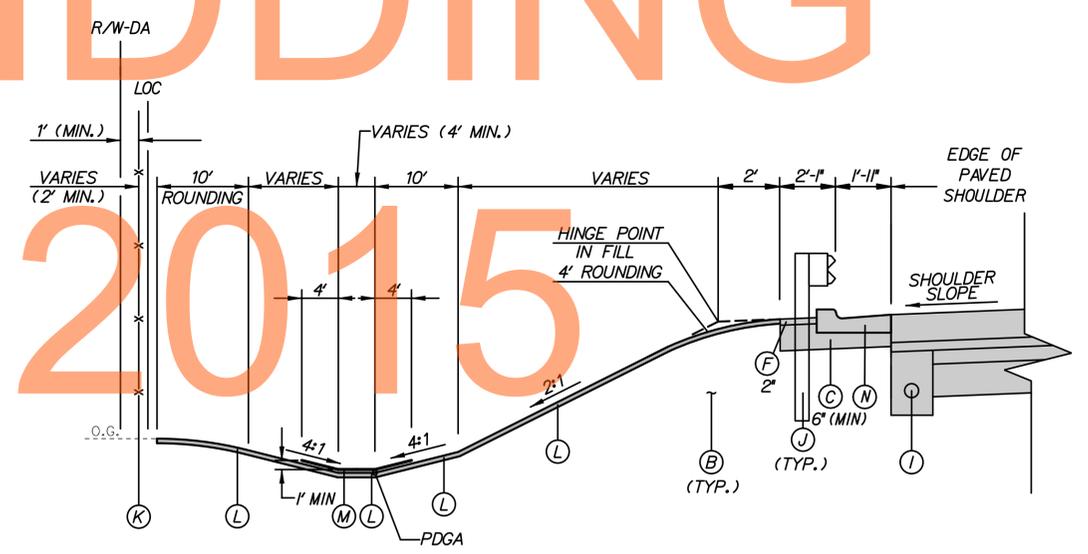


MEDIAN GUARDRAIL DETAIL
(WHERE SHOWN ON PLANS)

DRAFT
NOT FOR BIDDING
AUGUST 2015



**GUARDRAIL DETAIL
WITH CURB & WITHOUT DRAINAGE DITCH**
(WHERE SHOWN ON PLANS)



**GUARDRAIL DETAIL
WITH CURB & DRAINAGE DITCH**
(WHERE SHOWN ON PLANS)

\$FILES \$DATES

| ADDENDUMS / REVISIONS | |
|-----------------------|--|
| | |
| | |

NOT TO SCALE

**US 301,
NORFOLK SOUTHERN RR TO SR 896**

| | | |
|------------------------|---------------------|--------------------|
| CONTRACT T200911301 | BRIDGE NO. | |
| COUNTY NEW CASTLE | DESIGNED BY: WJD | CHECKED BY: MAA |

TYPICAL SECTION

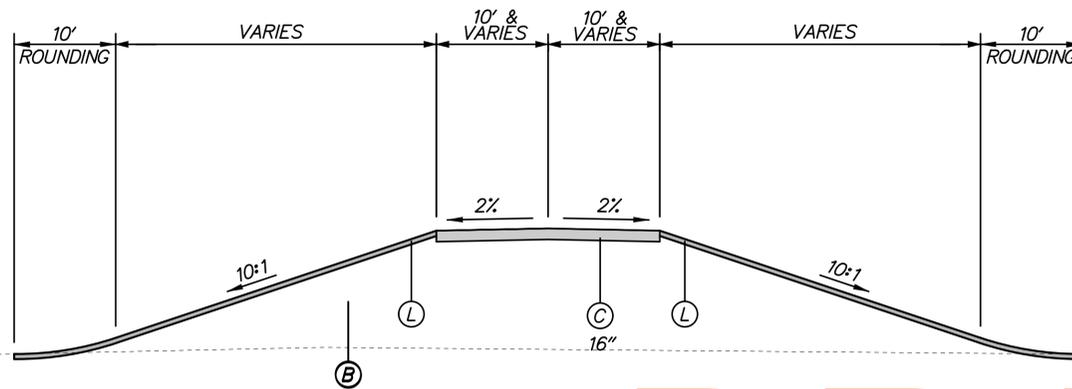
| |
|--------------------|
| TS-03 |
| SHEET NO. 12 |
| TOTAL SHTS. 240 |

LEGEND

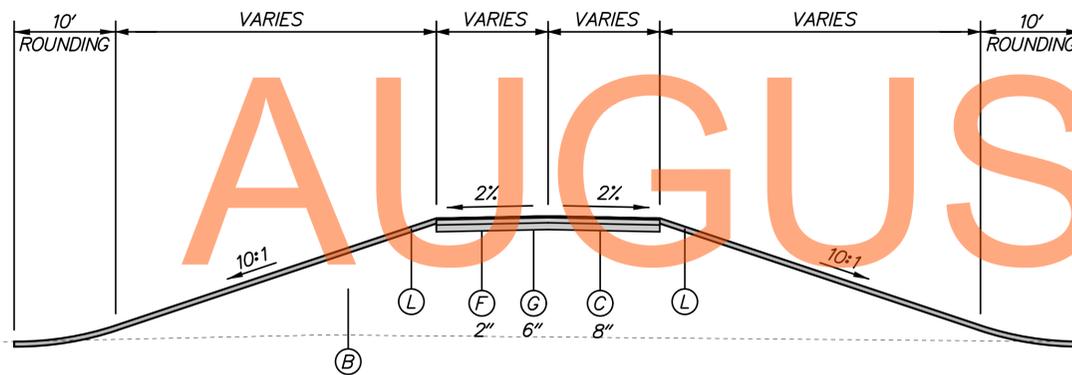
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6. SEE SHEET DT-02 FOR RUMBLE STRIP LOCATIONS



SR 896/BOYD'S CORNER ROAD AGRICULTURAL ACCESS
UNPAVED SECTION



SR 896/BOYD'S CORNER ROAD AGRICULTURAL ACCESS
PAVED SECTION

DRAFT

NOT FOR BIDDING

AUGUST 2015

\$DATES

\$FILES



ADDENDUMS / REVISIONS

NOT TO SCALE

US 301,
NORFOLK SOUTHERN RR TO SR 896

| | | |
|------------|--------------|-----|
| CONTRACT | BRIDGE NO. | |
| T200911301 | DESIGNED BY: | WJD |
| COUNTY | CHECKED BY: | MAA |
| NEW CASTLE | | |

TYPICAL SECTION

TS-05

SHEET NO.

14

TOTAL SHTS.

240