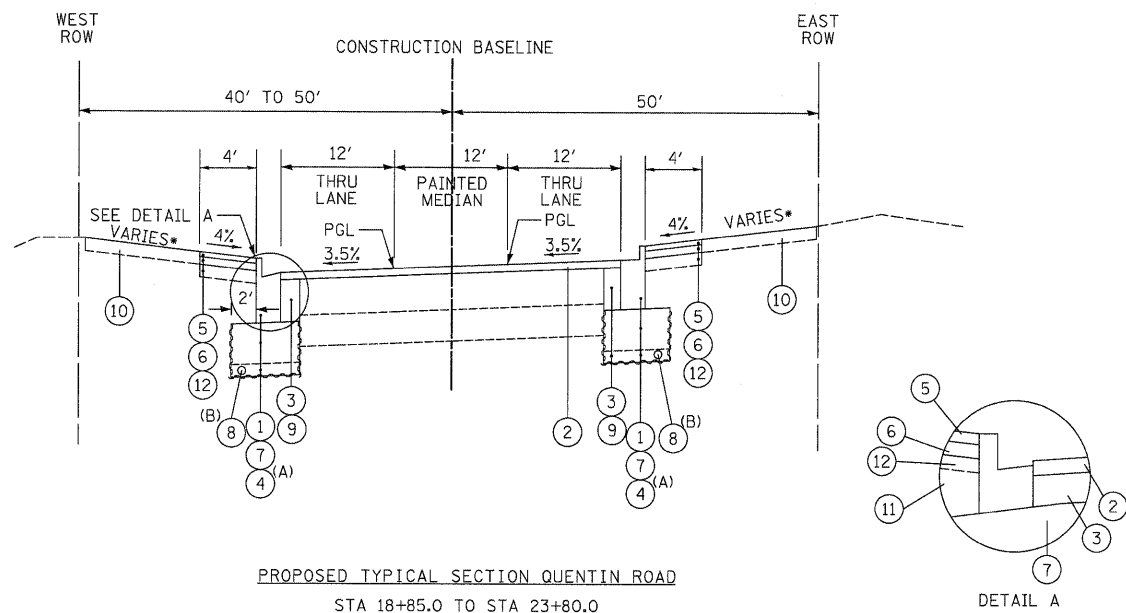
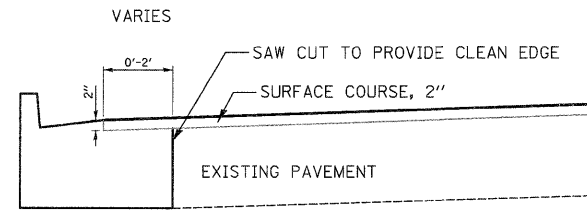


| | |
|---------------|--|
| DATE | |
| BY | |
| FINAL SURVEY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



PROPOSED TYPICAL SECTION QUENTIN ROAD
STA 18+85.0 TO STA 23+80.0
(SUPERELEVATED LEFT)

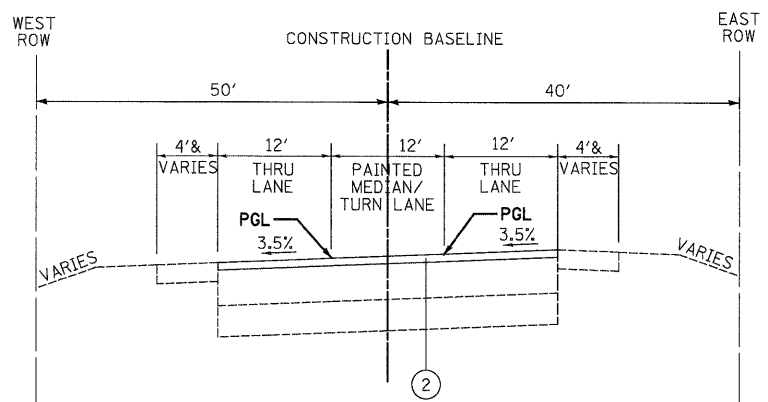
(A) SEE SOIL NOTE AND CROSS SECTION SHEETS FOR LOCATIONS AND DEPTH OF UNDERCUTTING
(B) UNDER DRAINS AT THE OUTSIDE EDGE OF THE PAVEMENT DRAIN THE AGGREGATE SUBGRADE WITH TRANSVERSE UNDERDRAINS INSTALLED APPROXIMATELY EVERY 300 FT TO 500 FT, AT THE LOW POINTS OF THE PROFILE, AND AT ANY UNDERCUTS DETERMINED IN THE FIELD.



COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 MODIFIED/B-6.24 MODIFIED/ MEDIAN SB-6.12 MODIFIED
AT LOCATIONS WHERE WIDENING IS 2' OR LESS

- *NOTE:
- AT LOCATIONS WHERE WIDENING IS 2' OR LESS - POURED MONOLITHIC WITH CURB.
 - AT LOCATIONS WHERE WIDENING IS 2' TO 4' THERE SHALL BE A NON-MONOLITHIC PCC BASE COURSE.
 - AT LOCATIONS WHERE WIDENING IS GREATER THAN 4', HMA PAVEMENT WILL BE CONSTRUCTED.

| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



PROPOSED TYPICAL SECTION QUENTIN ROAD
STA 23+80.0 TO STA 24+50.0
(SUPERELEVATED LEFT)

- PROPOSED LEGEND
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
 - PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
 - PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8-1/2"
 - PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND PROPOSED P.G.E., SUBGRADE
 - PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
 - PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/2"
 - PROPOSED AGGREGATE SUBGRADE, 12"
 - PROPOSED PIPE UNDERDRAINS, 4" (MODIFIED)
 - PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - PROPOSED FURNISH AND PLACE TOPSOIL, 4" (SEE LANDSCAPING SHEETS FOR LIMITS)
 - PROPOSED FURNISHED EXCAVATION
 - PROPOSED AGGREGATE BASE COURSE, TYPE A, 4"

* SLOPE AWAY FROM ROAD IN FILL SECTIONS SLOPE TOWARD ROAD IN CUT SECTIONS

| Superelevation Variables | |
|---|--------------|
| Radius of curve* | 1910.100 ft. |
| Max speed = | 45.000 mph |
| Width of lane = | 18.000 ft. |
| e (BLRS Fig. 29-3C) = | 0.035 %f |
| Max Grade = | 0.539 % |
| Normal Slope = | 0.020 %f |
| PC = | 21+09.65 |
| PT = | 27+76.83 |
| e _{max} | 4.0 % |
| K = | 0.0148 |
| RS (BLRS Fig. 29-3D) = | 185.00 |
| L ₁ = L _{min} (BLRS Fig. 29-3C) = | 71.00 ft |
| TR (BLRS Fig. 29-3C) = | 31.00 ft |

| Superelevation Stationing and Elevations | | | | | | | | |
|--|----------|-----|----------|------------|------------|----------|-----------|------------|
| Transition Point | NB PGL | | Station | Super Rate | SB Lft EOP | SB PGL | NB RT EOP | Super Rate |
| Normal | 802.80 | A = | 20+33.15 | -0.020 | 802.56 | 802.80 | 802.56 | -0.020 |
| | 802.25 | | 20+50.00 | -0.020 | 801.96 | 802.20 | 802.12 | -0.011 |
| Zero | 801.76 | B = | 20+64.15 | -0.020 | 801.40 | 801.64 | 801.76 | 0.000 |
| | 800.41 | | 21+00.00 | -0.020 | 799.93 | 800.17 | 800.64 | 0.019 |
| Edge Breakpoint | 800.12 | C = | 21+07.33 | -0.020 | 799.64 | 799.88 | 800.36 | 0.020 |
| | 800.02 | D = | 21+09.65 | -0.021 | 799.51 | 799.76 | 800.28 | 0.021 |
| Full Super | 806.26 | E = | 21+35.15 | -0.035 | 805.42 | 805.84 | 806.68 | 0.035 |
| Full Super | 798.27 | | 21+50.00 | -0.035 | 797.43 | 797.85 | 798.69 | 0.035 |
| Full Super | 795.86 | | 22+00.00 | -0.035 | 795.02 | 795.44 | 796.28 | 0.035 |
| Full Super | 793.42 | | 22+50.00 | -0.035 | 792.58 | 793.00 | 793.84 | 0.035 |
| Full Super | 790.97 | | 23+00.00 | -0.035 | 790.13 | 790.55 | 791.39 | 0.035 |
| Full Super | 788.66 | | 23+50.00 | -0.035 | 787.79 | 788.24 | 789.08 | 0.035 |
| Full Super | (787.35) | | 23+80.00 | -0.035 | 786.45 | 786.93 | 787.77 | 0.035 |
| Full Super | (786.61) | | 24+00.00 | -0.035 | 785.69 | 786.19 | 787.03 | 0.035 |
| Full Super | (784.85) | | 24+50.00 | -(0.030) | (784.03) | (784.48) | (785.26) | (0.031) |

* Use of Parentheses Indicates the Value Matches Existing Conditions

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www.civiltechinc.com

| | |
|-------------------|-----------|
| DESIGNED - JRR | REVISED - |
| DRAWN - JRR | REVISED - |
| CHECKED - RTM | REVISED - |
| DATE - 10/24/2011 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO SCALE

PROPOSED TYPICAL SECTIONS

SHEET NO. 6 OF 8 SHEETS

| | | | | |
|---|----------------|--------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 364 | 02-00051-08-WR | LAKE | 188 | 13 |
| CONTRACT NO. 63649 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |