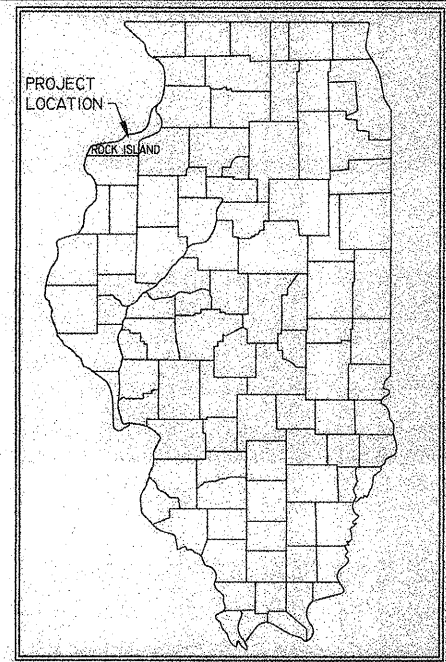


| F.A.U. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------|----------------|-------------|--------------|-----------|
| MS1015 | 08-00239-00-RP | ROCK ISLAND | 34 | 1 |



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR
PROPOSED LOCAL AGENCY IMPROVEMENT
URBAN PROJECT

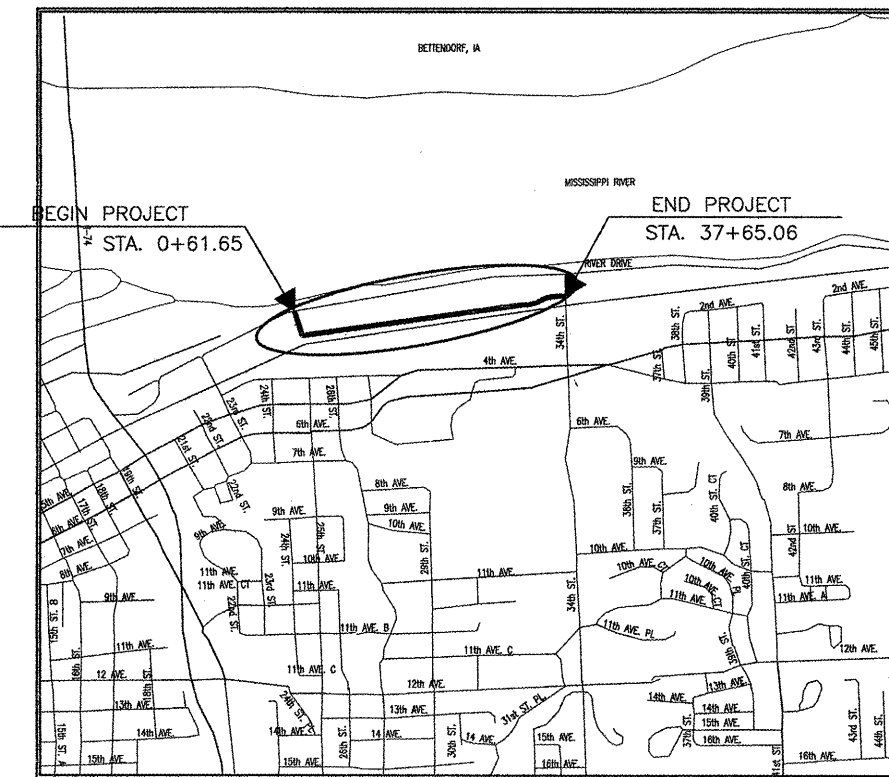
MS ROUTE 1015
SECTION 08-00239-00 RP
ROCK ISLAND COUNTY
PROJECT NO HD-5074 (088)

CITY OF MOLINE
JOB NO. C-92-152-10
CONTRACT #85554

| | |
|---------|------------------------|
| 1. | COVER SHEET |
| 2. | TYPICAL SECTIONS |
| 3. | SUMMARY OF QUANTITIES |
| 4-5. | SCHEDULE OF QUANTITIES |
| 6-8. | PLAN & PROFILE |
| 9. | SIDEWALK DETAIL |
| 10.-12. | UTILITY PLANS |
| 13. | GEOMETRICS |
| 14. | PAINT MARKING PLAN |
| 15. | FENCE PLAN |
| 16.-22. | ELECTRICAL PLAN |
| 23. | ELECTRICAL DETAILS |
| 24.-30. | CROSS SECTIONS |
| 31.-34. | DETAILS |

| | |
|-----------|---|
| 280001-06 | TEMPORARY EROSION CONTROL SYSTEMS |
| 424001-06 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 604001-03 | FRAME AND LIDS, TYPE 1 |
| 640001-01 | SIGHT SCREEN - CHAIN LINK FENCE |
| 664001-02 | CHAIN LINK FENCE |
| 701006-03 | OFF-RD OPERATIONS, 2L, 2W, 12' TO 24" FROM PAVEMENT EDGE |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701801-05 | LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-02 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-03 | SIGN PANEL ERECTION DETAILS |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 729001-01 | APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS) |
| 780001-03 | TYPICAL PAVEMENT MARKINGS |
| BLR 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |

| SHEET | C.O.M. STANDARD # | DESCRIPTION |
|-------|-------------------|--|
| 31 | 2 | INTEGRAL CURB |
| 31 | 3 | MANHOLE BOX OUT |
| 31 | 4 | JOINT TYPE & LAYOUT |
| 31 | 5 | CONSTRUCTION JOINT & EXPANSION JOINT |
| 31 | 6 | LONGITUDINAL JOINT & TRANSVERSE JOINT |
| 32 | 8 | RESIDENTIAL/COMMERCIAL DRIVEWAY & SIDEWALK |
| 32 | 10 | TYPICAL BOULEVARD |
| 32 | 13 | TYPICAL ADJUSTMENT |
| 33 | 14 | TYPICAL MANHOLE |
| 33 | 19 | BEDDING AND TRENCH BACKFILL |
| 33 | 20 | CATCH BASIN SINGLE/DOUBLE/TRIPLE |
| 34 | 21 | CATCH BASIN SPECIAL NO. 1, 2, OR 3 |
| 34 | 22 | PIPE UNDERDRAIN DETAIL |
| 34 | 23 | PIPE UNDERDRAIN DETAIL |



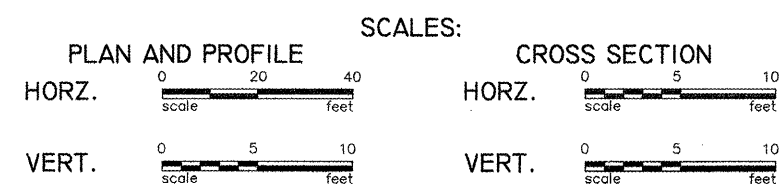
CALL J.U.L.I.E. BEFORE YOU DIG
1-800-892-0123

UTILITIES

The following utility companies may have utilities located on this project.

| | |
|---|---|
| Midamerican Energy 716 17th Street Moline, IL 61265 Elec. PH (309) 793-3833 Gas PH (309) 793-3707 | AT&T 635 18th Street Rock Island, IL 61201 PH (309) 793-4465 |
| Mediacom 3900 26th Avenue Moline, IL 61265 PH (309) 743-4750 Alt. (309) 743-4735 | Qwest 3565 Utica Ridge Road Bettendorf, IA 52722 PH (563) 353-6402 |
| City of Moline Sanitary Sewer | (309) 524-2340 |
| City of Moline Storm Sewer | (309) 524-2350 |
| City of Moline Water Mains | (309) 524-2300 |

Contractor shall call J.U.L.I.E. to contact all utility companies which may have facilities in the area of construction, and obtain the exact location of these facilities.



LENGTH OF PROJECT: 3703 FEET OR .70 MILES

FUNCTIONAL CLASSIFICATION:
LOCAL ROAD
CURRENT ADT = NONE (2011), TRUCKS = 0%
DESIGN ADT = 1200 (2029), TRUCKS = 1%
INTEGRAL CURB & GUTTER, TIED EDGE SUPPORT CONDITIONS
DESIGN SPEED = 30 MPH



SIGNATURE _____
DATE 4/10/12
EXP. DATE 11/30/13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Approved 4/10/12 _____
City of Moline, City Engineer

Passed 4/30/12 _____
District #2 Engineer of Local Roads & Streets

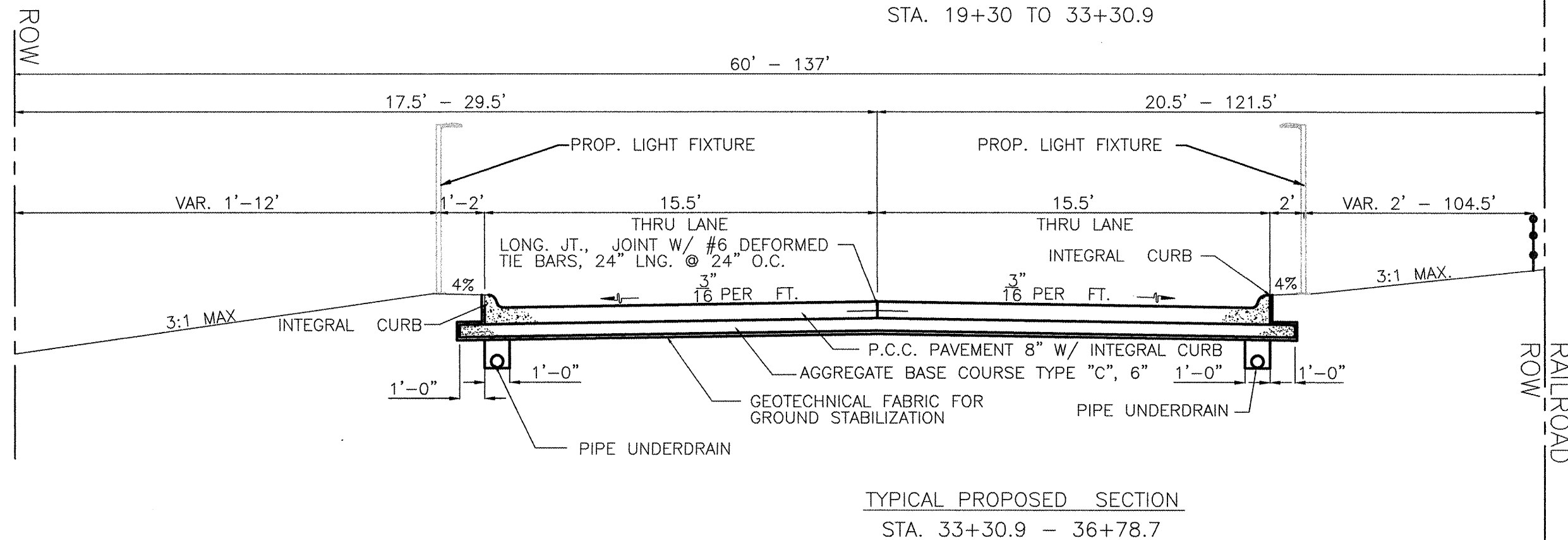
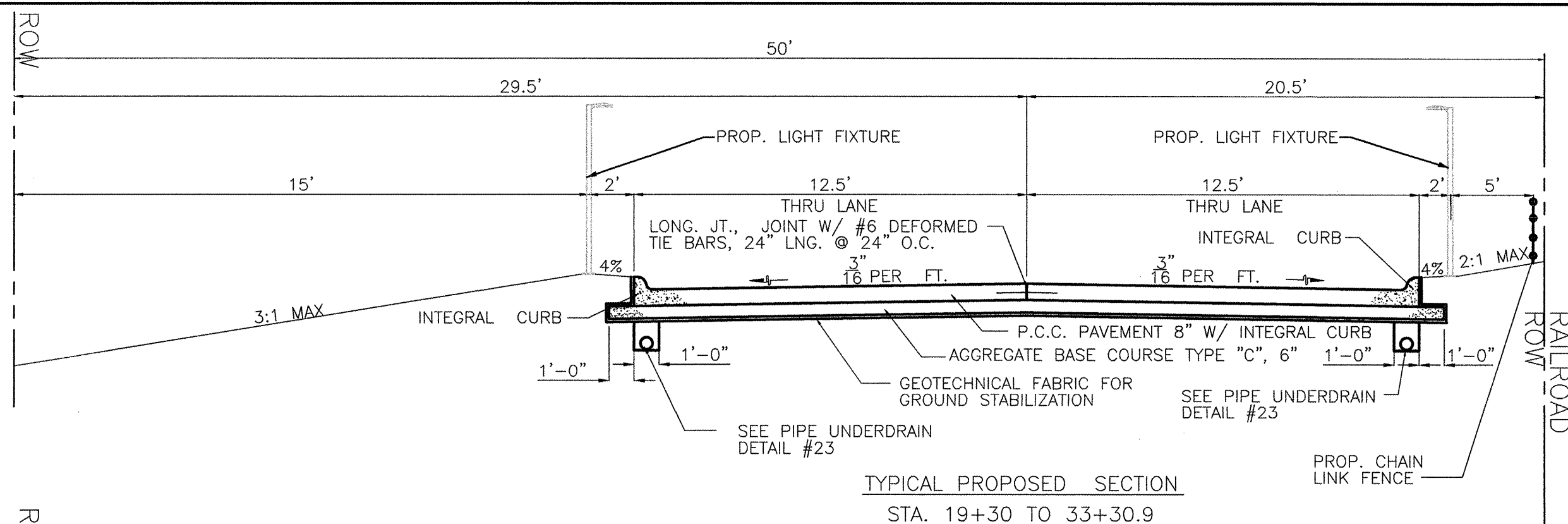
Releasing for Bid 4/30/12 _____
Based on Limited Review
Deputy Director of Highways, Region #2 Engineer

CITY OF MOLINE ILLINOIS

Prepared By
City of Moline, Illinois
DEPARTMENT OF PUBLIC WORKS
Engineering Division

APPROVED 4/10/12 _____
SCOTT R. HINTON P.E. 62646
CITY ENGINEER EXP. 11-13

MFT 08-00239-00 RP - RIVERTECH BOULEVARD



NOTES:

ALL HONEYCOMBING & OR POROUS AREAS IN BACK OF CURB WILL BE CORRECTED AS DIRECTED BY THE ENGINEER.

SLUMP NOT TO EXCEED 3". REQUIRED AIR, 5% - 8%. NO WATER MAY BE ADDED AT JOBSITE TO EXCEED THE DESIGN SLUMP.

ALL TIE BARS, DOWEL BARS AND REINFORCING STEEL SHALL BE EPOXY COATED.


EARTH EXCAVATION FOR BASE COURSE, TOPSOIL PLACEMENT, SIDEWALKS, DRIVEWAYS, PCC CURB AND GUTTER, RETAINING WALLS, AND PATCHES WILL BE INCIDENTAL TO THOSE ITEMS. EXCAVATION FOR THESE ITEMS SHALL CONSIST OF THE REMOVAL AND SATISFACTORY DISPOSAL OF ALL SUITABLE EARTH EXCAVATION AS DEFINED ON THE PLANS. THIS ITEM INCLUDES THE REMOVAL OF EXISTING VEGETATION AND ORGANIC TOPSOIL; EXISTING, IDENTIFIED, CONCRETE STRUCTURES NOT COVERED ELSEWHERE; SEALCOAT OR BITUMINOUS SURFACING ON AGGREGATE BASE, AGGREGATE BASE, SEAL COAT OR BITUMINOUS BASE AND EARTH MATERIALS, AND ROCK. IF THE CONTRACTOR ENCOUNTERS CONDITIONS DIFFERING MATERIALLY FROM THOSE INDICATED IN THE CONTRACT, HE / SHE / SHALL NOTIFY THE ENGINEER BEFORE THEY ARE DISTURBED, AS PER 104.03.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REQUIRED SAW CUTTING FOR SAID REMOVAL OR FOR THE DISPOSAL OF ANY SURPLUS MATERIALS FROM THE JOB SITE.

ANY IMPROVEMENTS OR EXISTING APPURTENANCES DAMAGED DUE TO EMBANKMENT PLACEMENT SHALL BE REPAIRED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, WITH ALL SUCH REPAIRS BEING PAID FOR BY THE CONTRACTOR WITH NO ADDITIONAL COSTS TO THE CONTRACT.

BACKFILLING AT BACKS OF CURBS, SIDEWALKS, DRIVEWAYS, SEGMENTAL CONCRETE BLOCK WALL, AND PRECAST MODULAR RETAINING WALL SHALL NOT BE PAID. ALL COSTS ASSOCIATED WITH SAID BACKFILLING SHALL BE INCIDENTAL TO PCC PAVEMENT, PCC SIDEWALK, AND PCC DRIVEWAY PAVEMENT

EARTH EXCAVATION MATERIAL INTENDED FOR USE AS EMBANKMENT BUT FOUND TO BE UNSUITABLE SHALL BE REMOVED AND REPLACED WITH MATERIAL FROM OTHER EARTH EXCAVATION FROM WITHIN THE PROJECT LIMITS. IF ENOUGH ACCEPTABLE MATERIAL CANNOT BE OBTAINED WITHIN THE PROJECT LIMITS TO COMPLETE THE FILL SECTIONS, THE COST OF REMOVING THE UNSUITABLE MATERIAL AND FURNISHING APPROVED MATERIAL FROM A BORROW SITE SHALL BE PAID FOR AS PER ARTICLE 109.04 (FORCE ACCOUNT) OR PER AGREED TO UNIT PRICES APPROVED BY THE CITY OF MOLINE AND ILLINOIS DEPARTMENT OF TRANSPORTATION.



CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
TYPICAL SECTIONS

| | |
|---------|---------------|
| | |
| | |
| 3-31-12 | IDOT COMMENTS |
| Date | Revision |

| | | | |
|----------|----------|-----------|---------|
| Date | 12-13-11 | Sheet | 2 |
| Scale | NTS | of | 34 |
| Designer | JC,MF | Project # | MFT 239 |

PAVEMENT DESIGN CALCULATIONS

GIVEN ASSUMPTIONS:

- 1) Reconstruct with jointed, P.C.C Concrete
- 2) ADT = 1200 (Design Year Traffic) PV = 1056, SU = 108, MU = 36
- 3) Subgrade Support Rating (SSR) = Poor
- 4) Class III, Two Lane Urban Collector
- 5) Non-reinforced Integral Curb & Gutter with 15 ft. transverse joint spacing
- 6) Stabilized subbase required for Class I roadway

SOLUTION:

- 1) Determine traffic factor using equation 37-2C allowing an 80,000 lb. Load limit.

$$TF = DP \left[\frac{(.073 \times PV) + (67.89 \times SU) + (283.605 \times MU)}{1 \times 10^6} \right]$$

Where DP = Design Period = 20 Years

$$TF = 20 \left[\frac{(.073 \times 1056) + (67.890 \times 108) + (283.605 \times 36)}{10^6} \right]$$

$$TF = 20 (.0176) = 0.3524$$

- 2) Determine rigid pavement thickness from figure 37-2E using:

- a. SSR = Fair
- b. TF = 0.3524
- c. Joint spacing = 15 feet

THICKNESS = 7.00" Thickness for 0.5 TF with 15' joint spacing fair subgrade
 ADJUSTMENTS : -0.00 Integral curb and gutter are not reinforced (section 37-2.03c)
 -0.00" Subgrade adjustment (Figure 37-2K)
 +0.50" Overload adjustment (Figure 37-2L)
garbage trucks, buses, commercial vehicles
 7.50" Jointed P.C.C Pavement

- 3) Since reinforcing will be used at expansion joints only, and the subgrade rating is poor, the designer has decided to use 8" P.C.C pavement over 6" drainable sub-base.

SYMBOL LEGEND

| EXISTING | SYMBOL NAME | PROPOSED | EXISTING | SYMBOL NAME | PROPOSED |
|----------|----------------------------|----------|----------|--------------------|----------|
| | HAND HOLE | | | VALVE VAULT | |
| | CONTROLLER | | | WATER SERVICE | |
| | TRAFFIC LIGHT | | | FLARED END SECTION | |
| | PEDESTRIAN PUSH BUTTON | | | TREE | |
| | MAST ARM | | | TREE REMOVAL | |
| | POWER OR TELEPHONE POLE | | | EVERGREEN TREE | |
| | GUY WIRE | | | STUMP | |
| | EXISTING LUMINAIRE | | | BUSH | |
| | EXISTING ELECTRIC MANHOLE | | | BENCH MARK | |
| | DECORATIVE LIGHT | | | ROW MARKER | |
| | STREET LIGHT | | | PROPERTY PIN | |
| | ELECTRICAL JUNCTION BOX | | | RANDOM POINT | |
| | TELEPHONE JUNCTION BOX | | | STREET SIGN | |
| | INLET SPECIAL TY "A" | | | MAIL BOX | |
| | INLET SPECIAL NO. 1 | | | GAS VENT PIPE | |
| | STORM AND SANITARY MANHOLE | | | GAS MARKER | |
| | CATCHBASIN SINGLE | | | GAS VALVE | |
| | CATCHBASIN DOUBLE | | | STREET SIGN | |
| | EXISTING SANITARY CLEANOUT | | | | |
| | WATER VALVE | | | | |
| | EXISTING HYDRANT | | | | |
| | GASLINE | | | STORM SEWER | |
| | TELEPHONE | | | SANITARY SEWER | |
| | UNDERGROUND ELECTRIC | | | WATER MAIN | |
| | WATER SERVICE LINE | | | UNDERDRAIN | |
| | | | | SIGHT SCREEN | |

| CODE | SUMMARY OF QUANTITIES (CONSTRUCTION TYPE CODE: 0001) | TOTAL |
|------------|--|------------|
| 20200100 | EARTH EXCAVATION | CU YD 2810 |
| 20200200 | ROCK EXCAVATION | CU YD 100 |
| 20400800 | FURNISHED EXCAVATION | CU YD 168 |
| 20800150 | TRENCH BACKFILL | CU YD 459 |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD 6025 |
| 25000100 | SEEDING CLASS 1 | ACRE 0.92 |
| 28000500 | INLET AND PIPE PROTECTION | EA 9 |
| 31102300 | SUBBASE GRANULAR MATERIAL TYPE C, 6" | SQ YD 6025 |
| 42300300 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7 INCH | SQ YD 377 |
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH | SQ FT 1036 |
| 42400800 | DETECTABLE WARNINGS | SQ FT 55 |
| 44000100 | PAVEMENT REMOVAL | SQ YD 328 |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD 358 |
| 550B2320 | STORM SEWER, RUBBER GASKET, CLASS B, TYPE 1, 12" | FOOT 246 |
| 55106025 | STORM SEWER INSTALLATION 12" | FOOT 751 |
| 55106045 | STORM SEWER INSTALLATION 18" | FOOT 293 |
| 60107600 | PIPE UNDERDRAINS 4" | FOOT 2123 |
| 60218300 | MANHOLES, TYPE A, 4' - DIAMETER, TYPE 1 FRAME, OPEN LID | EA 4 |
| 60234200 | INLET TYPE A, TYPE 1 FRAME, OPEN LID | EA 3 |
| 60266600 | VALVE BOXES TO BE ADJUSTED | EA 1 |
| 64000110 | SIGHT SCREEN (CHAIN LINK FENCE) 6' | FOOT 3358 |
| 67100100 | MOBILIZATION | L SUM 1 |
| Δ 78001100 | PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT 26.2 |
| Δ 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT 573 |
| Δ 78001130 | PAINT PAVEMENT MARKING - LINE 6" | FOOT 150 |
| Δ 78001150 | PAINT PAVEMENT MARKING - LINE 12" | FOOT 71 |
| Δ 78001160 | PAINT PAVEMENT MARKING - LINE 16" | FOOT 86 |
| Δ 78001180 | PAINT PAVEMENT MARKING - LINE 24" | FOOT 54 |
| LR420129 | PORTLAND CEMENT CONCRETE PAVEMENT, 8" (SPECIAL) WITH INTEGRAL CURB | SQ YD 5616 |
| X0322916 | PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER | EA 2 |
| X0322917 | PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE | EA 1 |
| X7010216 | TRAFFIC CONTROL AND PROTECTION SPECIAL | L SUM 1 |
| X6024242 | INLET SPECIALS NO. 1 | EA 6 |
| Δ XX002063 | LIGHTING SYSTEM COMPLETE | L SUM 1 |

Δ SPECIALTY ITEMS

CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 SUMMARY OF QUANTITIES


| | |
|---------|---------------|
| 3-31-12 | IDOT COMMENTS |
| 1-3-11 | IDOT COMMENTS |
| Date | Revision |

| | | | |
|----------|----------|-----------|--------|
| Date | 12-13-11 | Sheet | 3 |
| Scale | N.T.S. | of | 34 |
| Designer | JC | Project # | MFT239 |

| | |
|---|------------|
| EARTH EXCAVATION | |
| ENTIRE PROJECT | 2810 CU YD |
| ROCK EXCAVATION | |
| ENTIRE PROJECT | 100 CU YD |
| FURNISHED EXCAVATION | |
| ENTIRE PROJECT | 168 CU YD |
| TRENCH BACKFILL | |
| 23+27.00 / 12' LT - 20+77.38 / 17' LT | 98 CU YD |
| 23+27.05 / 12' RT - 23+27.00 / 12' LT | 10 CU YD |
| 28+26.90 / 12' LT - 28+26.90 / 12' RT | 10 CU YD |
| 28+26.90 / 12' RT - 33+26.81 / 12' RT | 200 CU YD |
| 33+26.81 / 12' LT - 33+26.81 / 12' RT | 10 CU YD |
| 33+27.00 / 12' RT - 34+74.70 / 19' RT | 61 CU YD |
| 37+29.97 / 19' LT - 37+34.07 / 11' LT | 4 CU YD |
| 37+34.07 / 11' LT - 36+20.62 / 15' RT | 46 CU YD |
| 37+52.00 / 55' LT - 37+34.07 / 11' LT | 20 CU YD |
| TOTAL | 459 CU YD |
| GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | |
| STA. 19+30 TO 37+65.06 | 6025 SQ YD |
| INLET AND PIPE PROTECTION | |
| STA. 23+27.00 / 11.92' LT | 1 EA |
| STA. 23+27.05 / 11.92' RT | 1 EA |
| STA. 28+26.90 / 11.91' LT | 1 EA |
| STA. 28+26.90 / 11.92' RT | 1 EA |
| STA. 33+26.81 / 11.90' RT | 1 EA |
| STA. 33+26.81 / 11.94' LT | 1 EA |
| STA. 36+20.62 / 14.92' RT | 1 EA |
| STA. 37+29.97 / 19.06' LT | 1 EA |
| STA. 37+52.00 / 55.37' LT | 1 EA |
| TOTAL | 9 EA |

| | |
|---|------------|
| SEEDING CLASS 1 | |
| ENTIRE PROJECT | 0.92 ACRE |
| TOTAL | 0.92 ACRE |
| SUBBASE GRANULAR MATERIAL TYPE C, 6" | |
| STA. 19+30 TO 37+65.06 | 6025 SQ YD |
| TOTAL | 6025 SQ YD |
| PORTLAND CEMENT CONCRETE DRIVEWAY 7 INCH | |
| STA. 32+87.3 / LT | 89 SQ YD |
| STA. 35+84.3 / LT | 288 SQ YD |
| TOTAL | 377 SQ YD |
| PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH | |
| STA. 37+40 / RT | 768 SQ FT |
| STA. 37+40 / LT | 268 SQ FT |
| TOTAL | 1036 SQ FT |
| DETECTABLE WARNINGS | |
| STA. 37+45 / LT | 17 SQ FT |
| STA. 37+45 / RT | 38 SQ FT |
| TOTAL | 55 SQ FT |
| PAVEMENT REMOVAL | |
| STA. 37+44.5 TO 37+65.0 / LT & RT | 328 SQ YD |
| TOTAL | 328 SQ YD |
| DRIVEWAY PAVEMENT REMOVAL | |
| STA. 32+87.3 / LT | 120 SQ YD |
| STA. 35+84.3 / LT | 192 SQ YD |
| STA. 37+41 / LT | 25 SQ YD |
| STA. 37+41 / RT | 21 SQ YD |
| TOTAL | 358 SQ YD |

| | |
|---|-----------|
| STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 1 12" | |
| 23+27.05 / 12' RT - 23+27.00 / 12' LT | 24 FOOT |
| 28+26.90 / 12' LT - 28+26.90 / 12' RT | 24 FOOT |
| 33+26.81 / 12' LT - 33+26.81 / 12' RT | 24 FOOT |
| 37+29.97 / 19' LT - 37+34.07 / 11' LT | 10 FOOT |
| 37+34.07 / 11' LT - 36+20.19 / 19' RT | 115 FOOT |
| 37+52.00 / 55' LT - 37+34.07 / 11' LT | 49 FOOT |
| TOTAL | 246 FOOT |
| STORM SEWERS INSTALLATION 12 | |
| 23+27.00 / 12' L - 20+77.98 / 15' L | 250 FOOT |
| 30+82.08 / 17' R - 33+26.81 / 12' R | 245 FOOT |
| 28+26.90 / 12' R - 30+82.08 / 17' R | 256 FOOT |
| TOTAL | 751 FOOT |
| STORM SEWER INSTALLATION 18 | |
| 33+26.81 / 12' R - 34+75.19 / 19' R | 153 FOOT |
| 36+20.19 / 19' R - 35+20.76 / 36' R | 103 FOOT |
| 35+20.76 / 36' R - 34+90.81 / 23' R | 37 FOOT |
| TOTAL | 293 FOOT |
| PIPE UNDERDRAINS 4" | |
| STA. 19+30 TO 23+27 / LT & RT | 448 FOOT |
| STA. 23+27 TO 28+26.9 / LT & RT | 488 FOOT |
| STA. 28+26.9 TO 33+26.8 / LT & RT | 504 FOOT |
| STA. 33+26.8 TO 34+64.2 / LT & RT | 260 FOOT |
| STA. 34+64.2 TO 36+20.6 / RT | 161 FOOT |
| STA. 34+64.2 TO 37+30 / LT | 262 FOOT |
| TOTAL | 2123 FOOT |
| MANHOLE TYPE A 4' - DIAMETER W/ TYPE 1 FRAME, OPEN LID | |
| STA. 30+82.08 / 16.66' RT | 1 EA |
| STA. 35+20.76 / 36.23' RT | 1 EA |
| STA. 36+20.19 / 19.20' RT | 1 EA |
| STA. 37+34.07 / 10.86' LT | 1 EA |
| TOTAL | 4 EA |



CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
SCHEDULE OF QUANTITIES

| | |
|---------|---------------|
| | |
| | |
| | |
| 3-31-12 | IDOT COMMENTS |
| Date | Revision |

| | | | |
|----------|----------|-----------|--------|
| Date | 12-13-11 | Sheet | 4 |
| Scale | N.T.S. | OF | 34 |
| Designer | JC,MF | Project # | MFT239 |

| | | |
|--------------------------------------|---|----|
| INLET TYPE A, TYPE 1 FRAME, OPEN LID | | |
| STA. 36+20.62 / 14.92' RT | 1 | EA |
| STA. 37+29.97 / 19.06' LT | 1 | EA |
| STA. 37+52.00 / 55.37' LT | 1 | EA |
| TOTAL | 3 | EA |

| | | |
|--------------------------|---|----|
| VALVE BOX TO BE ADJUSTED | | |
| STA. 37+43.00 / 7.53' RT | 1 | EA |
| TOTAL | 1 | EA |

| | | |
|---|------|------|
| SIGHT SCREEN (CHAIN LINK FENCE) 6' | | |
| STA. 3+76.4 / 139.6' RT - 9+50 / 19.5' RT | 574 | FOOT |
| STA. 9+50 - 15+50 / 19.5' RT | 600 | FOOT |
| STA. 15+50 - 19+30 / 19.5' RT | 380 | FOOT |
| STA. 19+30 - 25+40.5 / 19.5' RT | 611 | FOOT |
| STA. 25+40.5 - 31+50 / 19.5' RT | 610 | FOOT |
| STA. 31+50 / 19.5' RT - 37+33 / 114' RT | 583 | FOOT |
| TOTAL | 3358 | FOOT |

| | | |
|----------------|---|-------|
| MOBILIZATION | | |
| ENTIRE PROJECT | 1 | L SUM |
| TOTAL | 1 | L SUM |

| | | |
|--|------|-------|
| PAINT PAVEMENT MARKING - LETTERS & SYMBOLS | | |
| ENTIRE PROJECT | 26.2 | SQ FT |
| TOTAL | 26.2 | SQ FT |

| | | |
|----------------------------------|-----|------|
| PAINT PAVEMENT MARKING - LINE 4" | | |
| ENTIRE PROJECT | 573 | FOOT |
| TOTAL | 573 | FOOT |

| | | |
|----------------------------------|-----|------|
| PAINT PAVEMENT MARKING - LINE 6" | | |
| ENTIRE PROJECT | 150 | FOOT |
| TOTAL | 150 | FOOT |

| | | |
|-----------------------------------|----|------|
| PAINT PAVEMENT MARKING - LINE 12" | | |
| ENTIRE PROJECT | 71 | FOOT |
| TOTAL | 71 | FOOT |

| | | |
|-----------------------------------|----|------|
| PAINT PAVEMENT MARKING - LINE 16" | | |
| ENTIRE PROJECT | 86 | FOOT |
| TOTAL | 86 | FOOT |

| | | |
|-----------------------------------|----|------|
| PAINT PAVEMENT MARKING - LINE 24" | | |
| ENTIRE PROJECT | 54 | FOOT |
| TOTAL | 54 | FOOT |

| | | |
|--|------|-------|
| PORTLAND CEMENT CONCRETE PAVEMENT, 8" (SPECIAL) W/ INT. CURB | | |
| ENTIRE PROJECT | 5616 | SQ YD |
| TOTAL | 5616 | SQ YD |


| | | |
|---|---|-----|
| PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER | | |
| STA. 34+74.29 / 20.25' RT | 1 | EA. |
| STA. 34+85.38 / 21.86' RT | 1 | EA. |
| TOTAL | 2 | EA. |

| | | |
|---|---|-----|
| PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE | | |
| STA. 20+79.9 | 1 | EA. |
| TOTAL | 1 | EA. |

| | | |
|--|---|-------|
| TRAFFIC CONTROL AND PROTECTION SPECIAL | | |
| ENTIRE PROJECT | 1 | L SUM |

| | | |
|---------------------------|---|-----|
| INLET SPECIAL NO. 1 | | |
| STA. 23+27.00 / 11.92' LT | 1 | EA. |
| STA. 23+27.05 / 11.92' RT | 1 | EA. |
| STA. 28+26.90 / 11.91' LT | 1 | EA. |
| STA. 28+26.90 / 11.92' RT | 1 | EA. |
| STA. 33+26.81 / 11.90' RT | 1 | EA. |
| STA. 33+26.81 / 11.94' LT | 1 | EA. |
| TOTAL | 6 | EA. |

| | | |
|--------------------------|---|-------|
| LIGHTING SYSTEM COMPLETE | | |
| ENTIRE PROJECT | 1 | L SUM |



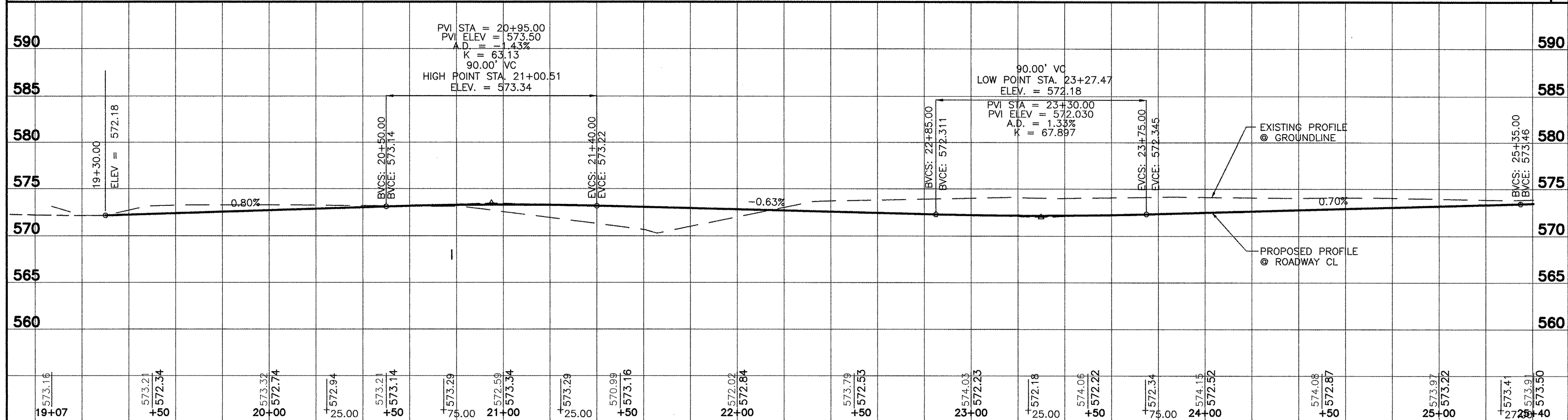
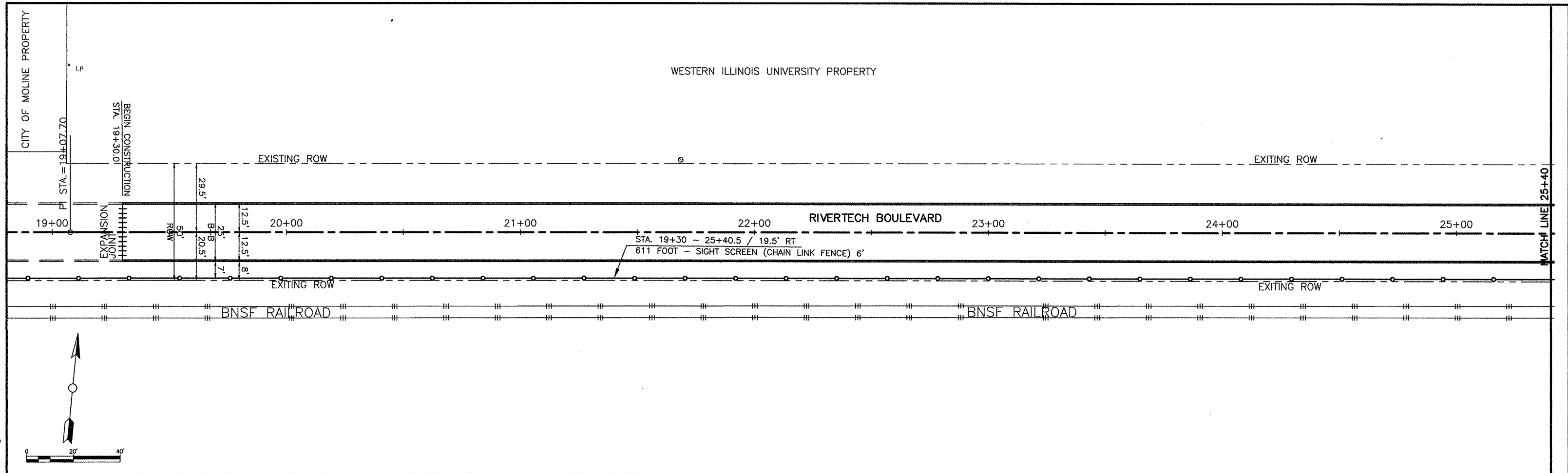
CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
SCHEDULE OF QUANTITIES

| | |
|---------|---------------|
| | |
| | |
| 3-31-12 | IDOT COMMENTS |
| Date | Revision |

| | | | |
|----------|----------|-----------|--------|
| Date | 12-13-11 | Sheet | 5 |
| Scale | N.T.S. | | of 34 |
| Designer | JC,MF | Project # | MFT239 |

FINAL PLANS_NO CABLE_12-12-2011.dwg



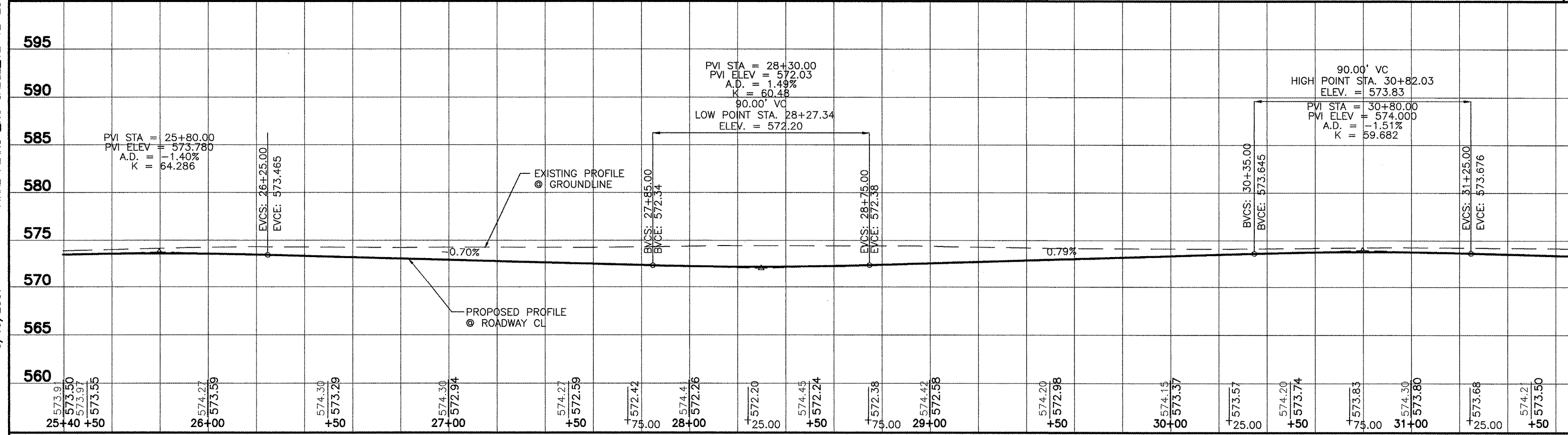
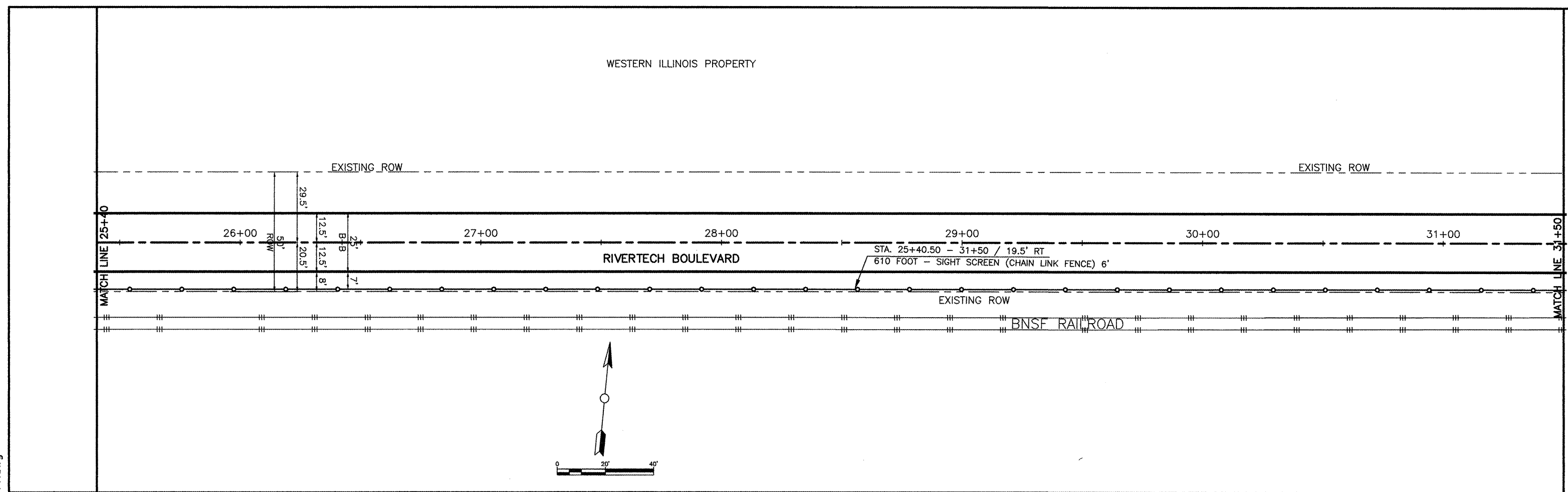
CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 PLAN & PROFILE

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 6 |
| Scale | 1:20 | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

3/19/2007 FINAL PLANS_NO CABLE_12-12-2011.dwg

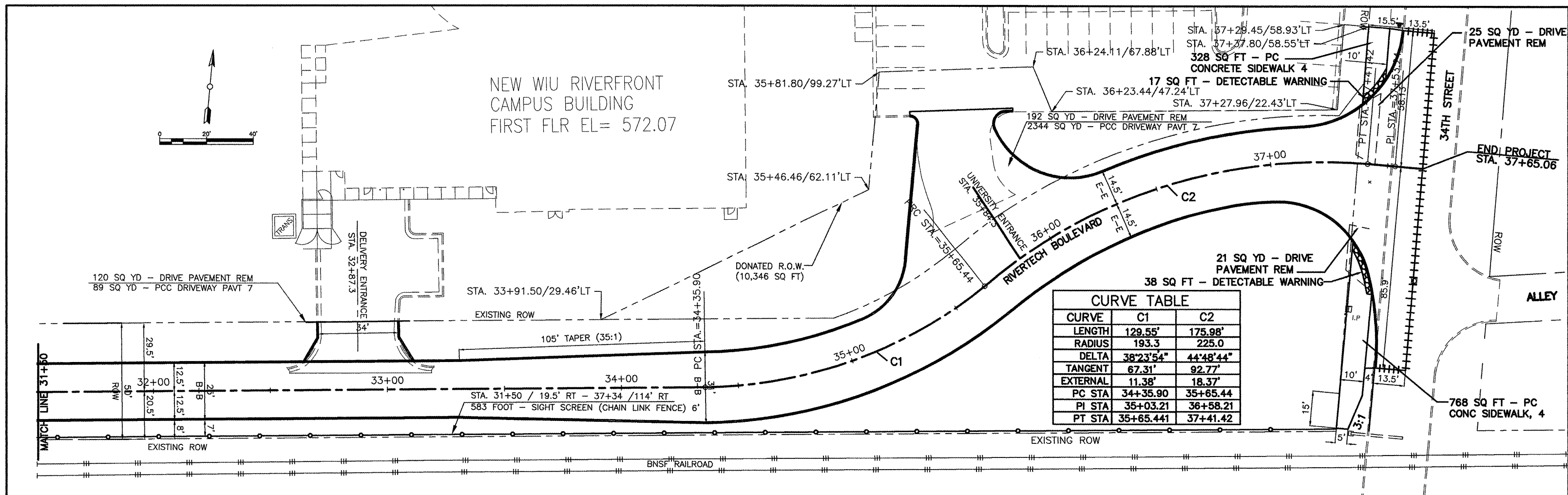


CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

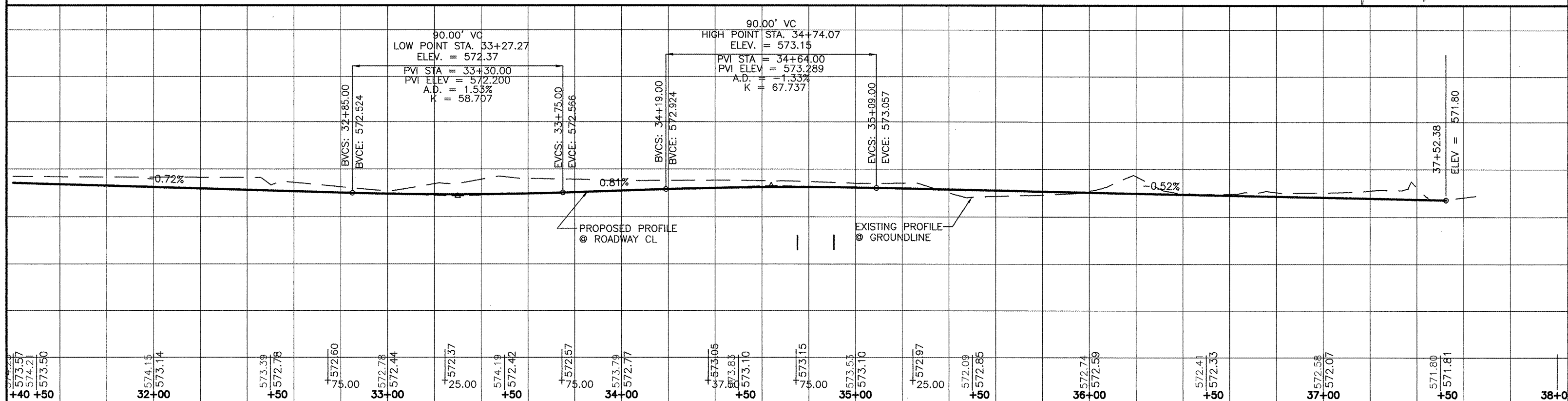
RIVERTech BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 PLAN & PROFILE


| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 7 |
| Scale | 1:20 | OF | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |



| CURVE TABLE | | |
|-------------|-----------|-----------|
| CURVE | C1 | C2 |
| LENGTH | 129.55' | 175.98' |
| RADIUS | 193.3 | 225.0 |
| DELTA | 38°23'54" | 44°48'44" |
| TANGENT | 67.31' | 92.77' |
| EXTERNAL | 11.38' | 18.37' |
| PC STA | 34+35.90 | 35+65.44 |
| PI STA | 35+03.21 | 36+58.21 |
| PT STA | 35+65.441 | 37+41.42 |




CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

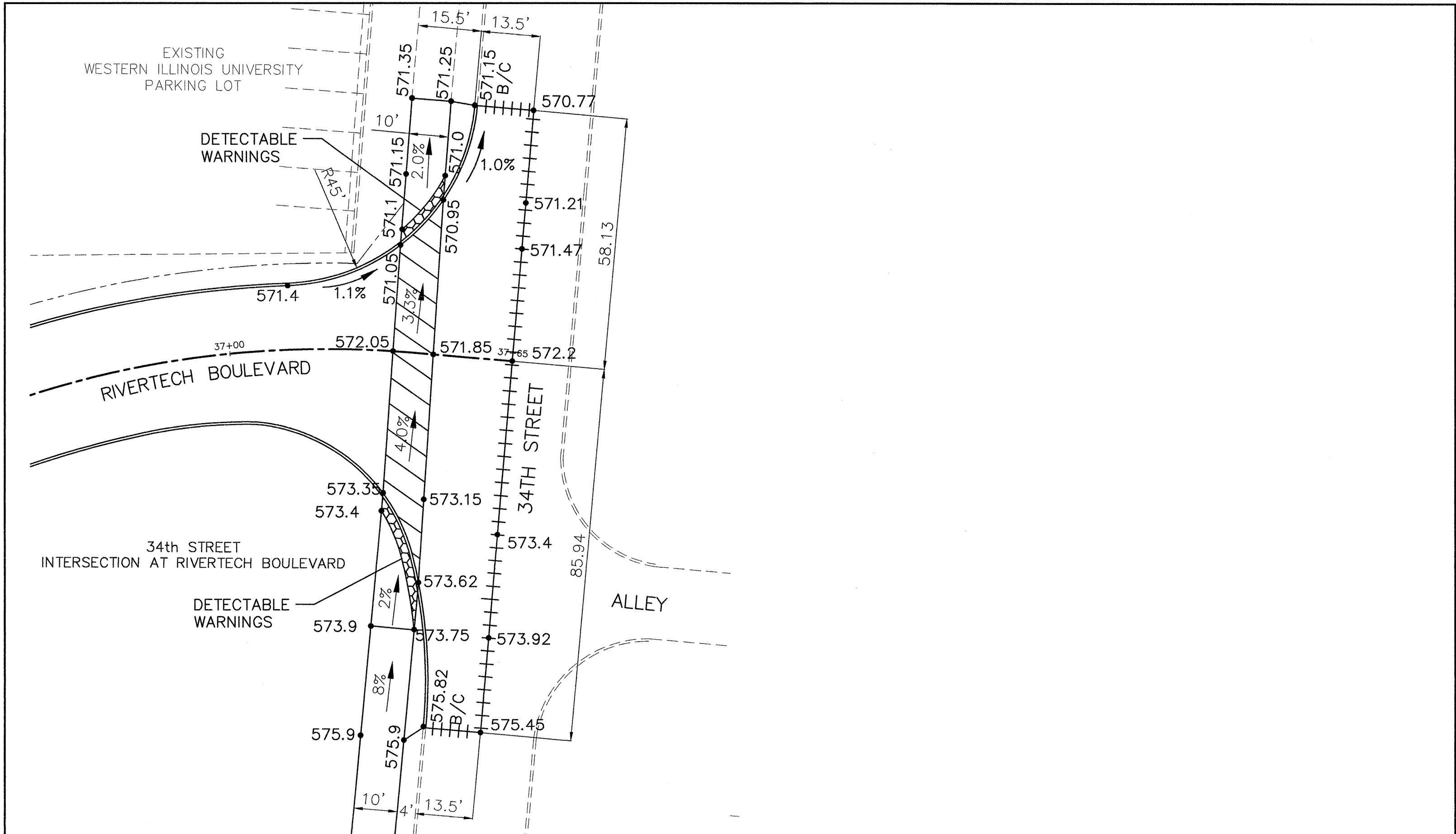
RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 PLAN & PROFILE

| Date | Revision |
|--------|---------------|
| 4-4-12 | IDOT COMMENTS |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 8 |
| Scale | 1"=20' | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

SIDEWALK DETAIL.dwg

3/19/2007



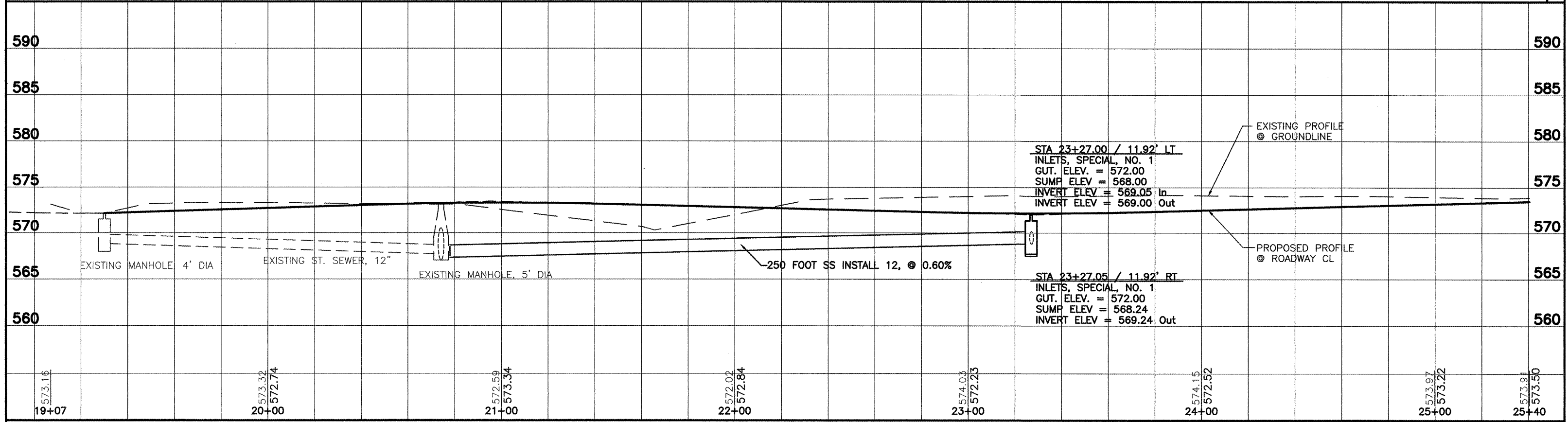
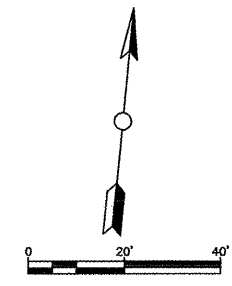
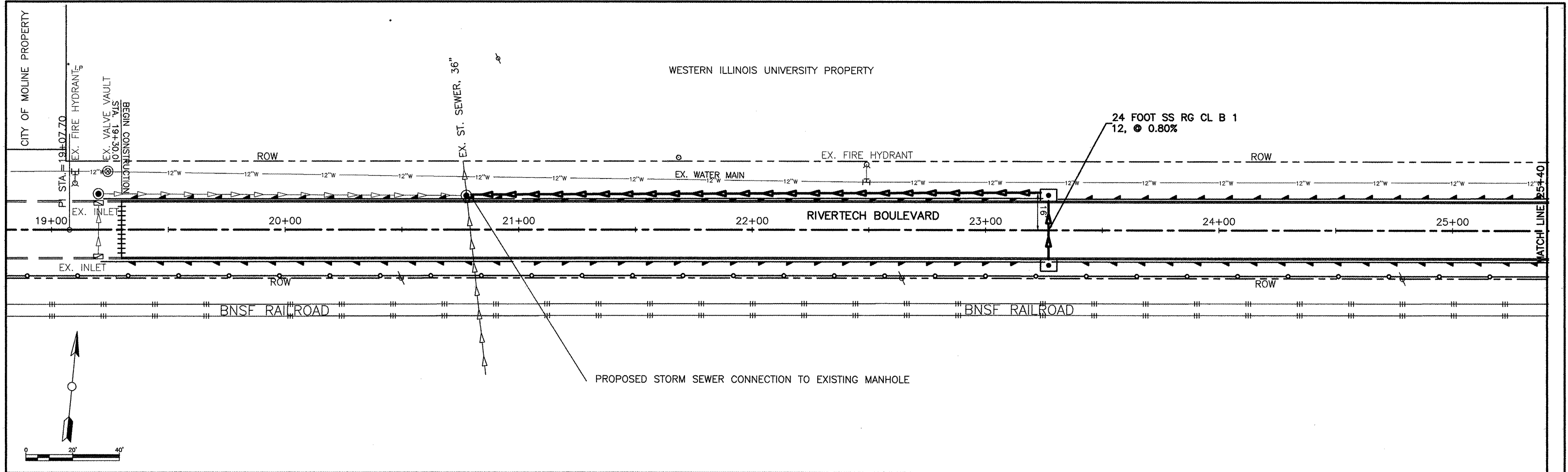
CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 SIDEWALK DETAIL

| Date | Revision |
|------|----------|
| | |
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 9 |
| Scale | 1"=10' | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

FINAL PLANS_NO CABLE_12-12-2011.dwg



STA 23+27.00 / 11.92' LT
 INLETS, SPECIAL, NO. 1
 GUT. ELEV. = 572.00
 SUMP ELEV = 568.00
 INVERT ELEV = 569.05 In
 INVERT ELEV = 569.00 Out

STA 23+27.05 / 11.92' RT
 INLETS, SPECIAL, NO. 1
 GUT. ELEV. = 572.00
 SUMP ELEV = 568.24
 INVERT ELEV = 569.24 Out

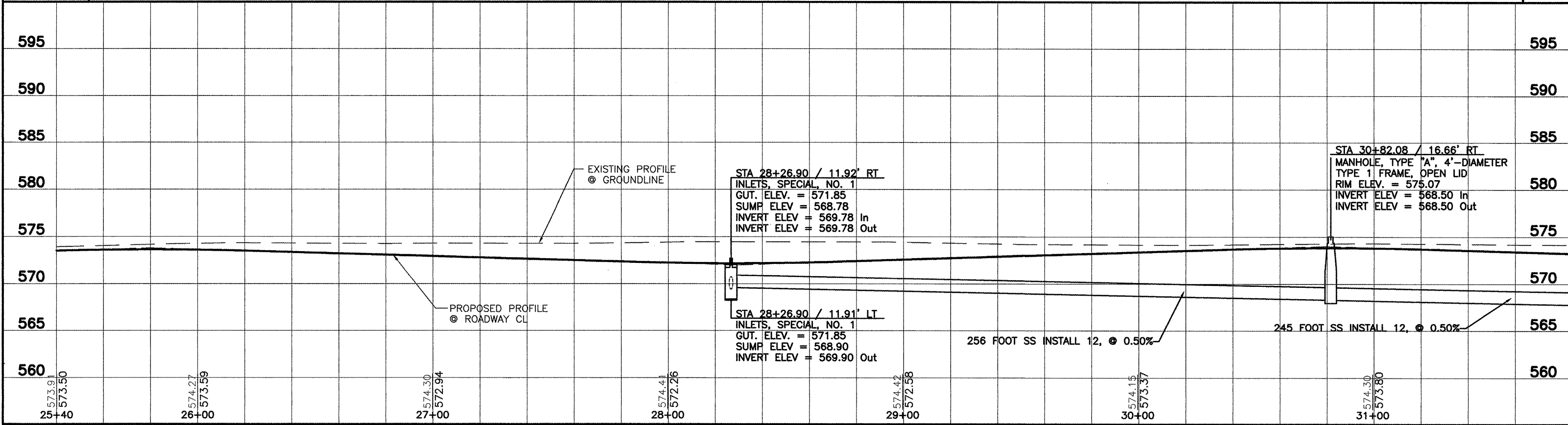
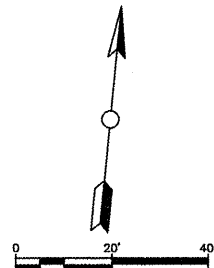
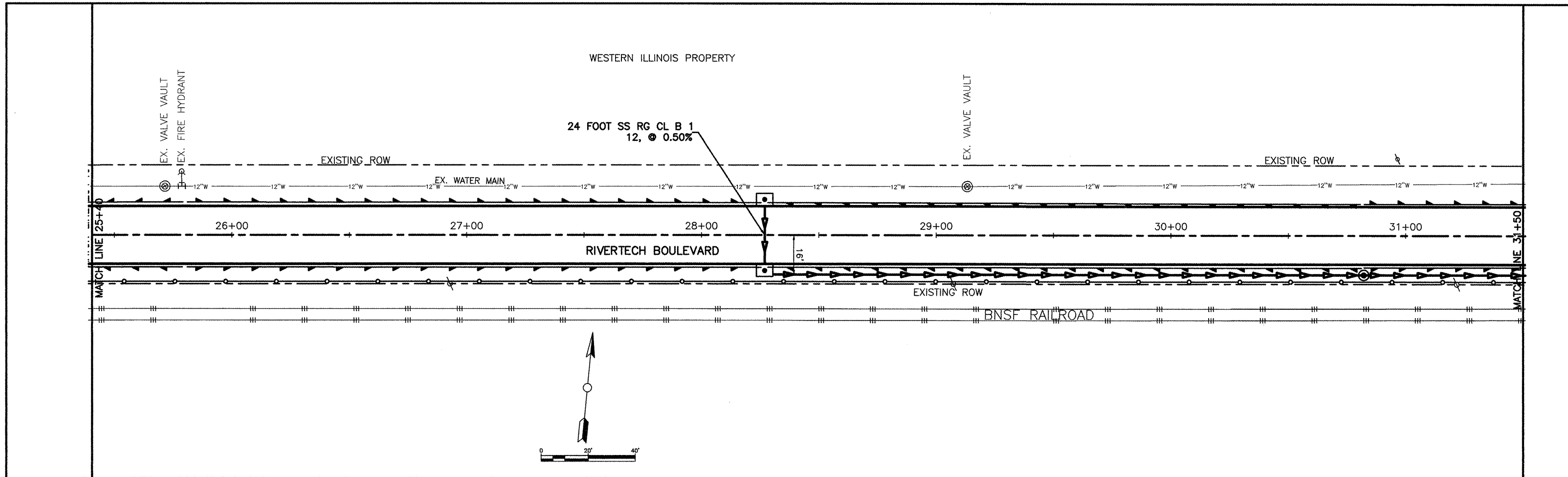


CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 UTILITY PLAN

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 10 |
| Scale | 1:20 | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |



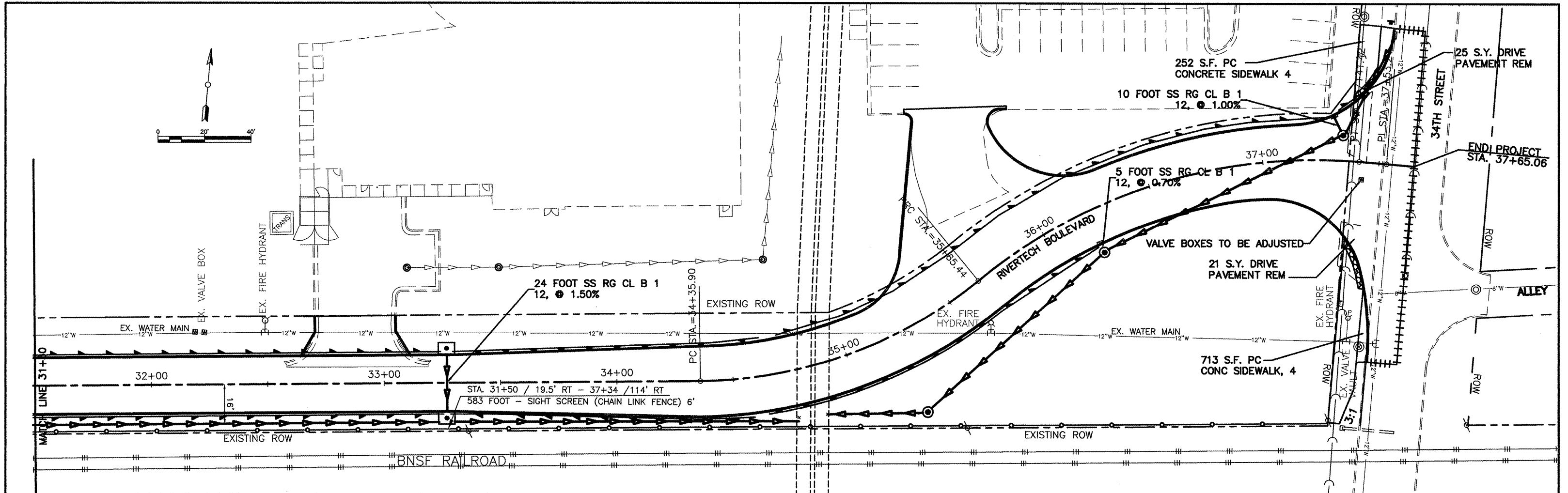
CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 UTILITY PLAN

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 11 |
| Scale | 1:20 | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

FINAL PLANS_NO CABLE_12-12-2011.dwg
3/19/2007



| | | | | | | | | | | | | |
|-------|--------|--|--|--|--|--|--|--|--|--|--|-----|
| 595 | | | | | | | | | STA 36+20.19 / 19.20' RT MANHOLE, TYPE "A", 4'-DIAMETER TYPE 1 FRAME, OPEN LID RIM ELEV. = 573.23 INVERT ELEV = 567.73 Out INVERT ELEV = 567.83 In INVERT ELEV = 567.83 In | STA 37+52.00 / LT INLET TYPE A, TYPE 1 FRAME, OPEN LID GUT. ELEV. = 571.36 SUMP ELEV = 567.69 INVERT ELEV = 568.69 Out | 595 | |
| 590 | | | | | | | | | | | 590 | |
| 585 | | | | | | | | | STA 35+20.76 / 36.23' RT MANHOLE, TYPE "A", 4'-DIAMETER TYPE 1 FRAME, OPEN LID RIM ELEV. = 573.84 INVERT ELEV = 567.00 In INVERT ELEV = 566.90 Out | STA 37+29.97 / LT INLET TYPE A, TYPE 1 FRAME, OPEN LID GUT. ELEV. = 571.87 SUMP ELEV = 568.20 INVERT ELEV = 569.20 Out | 585 | |
| 580 | | | | | | | | | 115 FOOT SS RG CL B 1 12, @ 0.50% | 49 FOOT SS RG CL B 1 12, @ 0.60% | 580 | |
| 575 | | | | | | | | | 153 FOOT SS INSTALL 18, @ 0.50% | | 575 | |
| 570 | | | | | | | | | EXISTING TWIN 72" STORM SEWERS | 103 FOOT SS INSTALL 18, @ 0.71% | 570 | |
| 565 | | | | | | | | | PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER | STA 36+20.62 / RT INLET TYPE A, TYPE 1 FRAME, OPEN LID GUT. ELEV. = 572.36 SUMP ELEV = 566.86 INVERT ELEV = 567.86 Out | STA 37+34.07 / 10.86' LT MANHOLE, TYPE "A", 4'-DIAMETER TYPE 1 FRAME, OPEN LID RIM ELEV. = 571.63 INVERT ELEV = 568.40 In INVERT ELEV = 568.45 Out INVERT ELEV = 569.11 In INVERT ELEV = 568.40 Out | 565 |
| 560 | | | | | | | | | | 37 FOOT SS INSTALL 18, @ 0.90% | 560 | |
| +40 | 573.57 | | | | | | | | | | | |
| 32+00 | 574.15 | | | | | | | | | | | |
| 33+00 | 573.14 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 34+00 | 572.78 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 35+00 | 572.44 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 36+00 | 573.79 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 37+00 | 572.77 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 38+00 | 573.53 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |



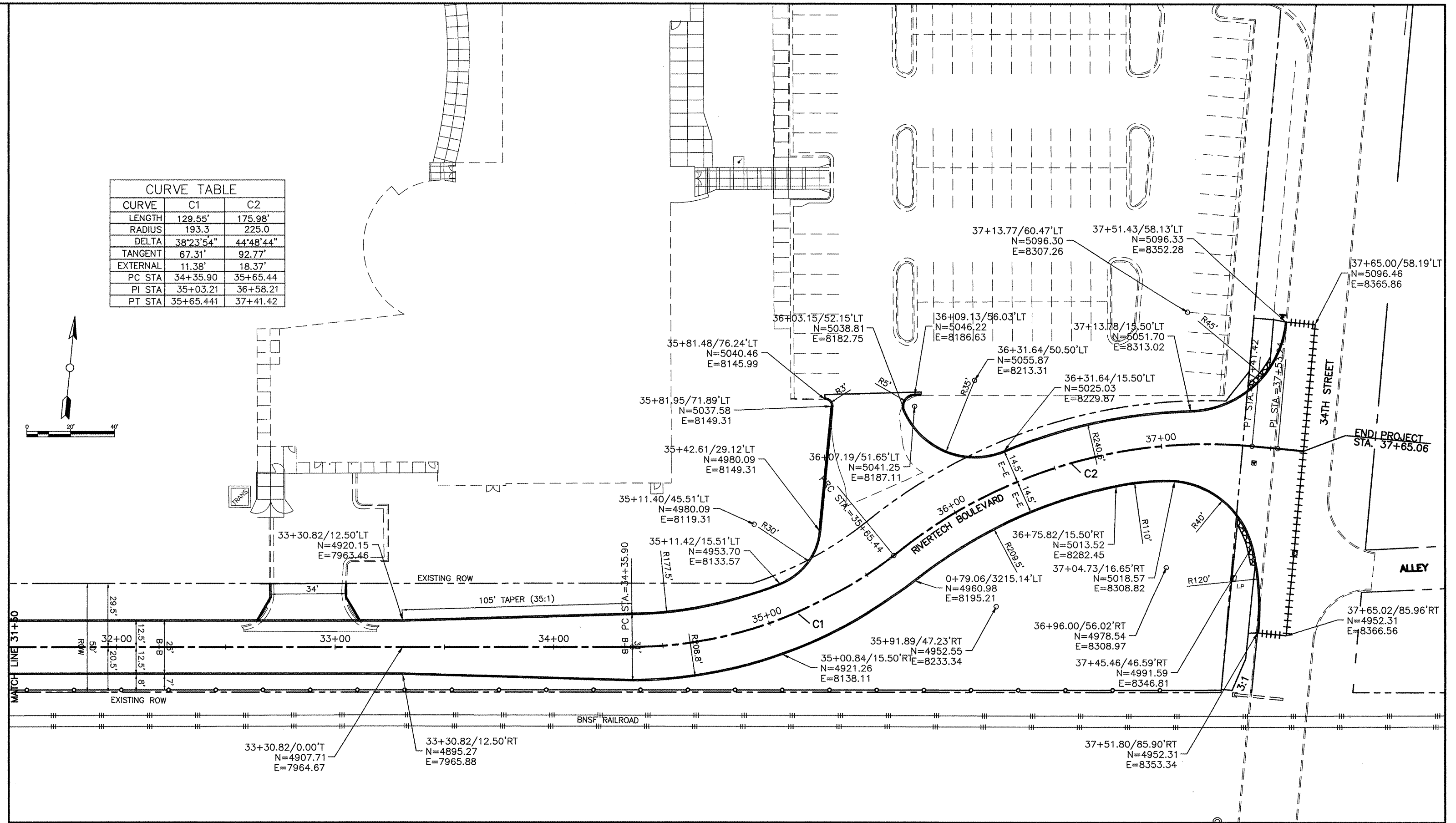
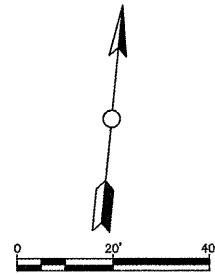
CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.


RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
UTILITY PLAN

| Date | Revision |
|---------|---------------|
| 3-31-12 | IDOT COMMENTS |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 12 |
| Scale | 1"=20' | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

| CURVE TABLE | | |
|-------------|-----------|-----------|
| CURVE | C1 | C2 |
| LENGTH | 129.55' | 175.98' |
| RADIUS | 193.3 | 225.0 |
| DELTA | 38°23'54" | 44°48'44" |
| TANGENT | 67.31' | 92.77' |
| EXTERNAL | 11.38' | 18.37' |
| PC STA | 34+35.90 | 35+65.44 |
| PI STA | 35+03.21 | 36+58.21 |
| PT STA | 35+65.441 | 37+41.42 |




CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

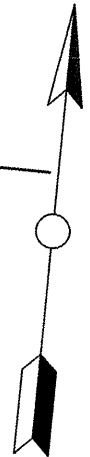
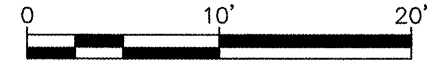
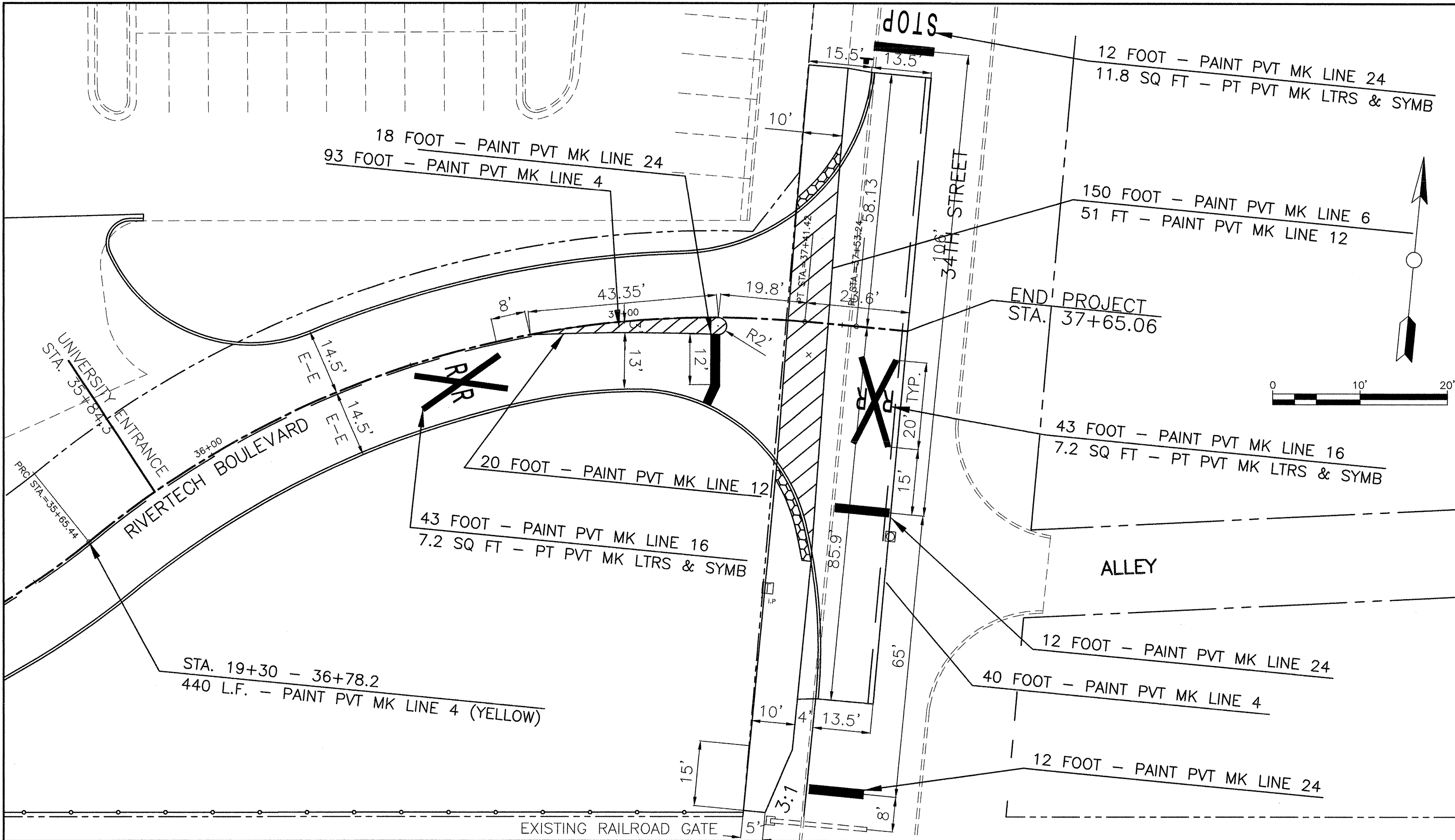
RIVERTech BOULEVARD
 34TH STREET NORTH OF RIVER DRIVE
 GEOMETRIC SHEET

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12-13-11 | Sheet | 13 |
| Scale | 1:20 | of | 34 |
| Design Engineer | JC,MF | Project | MFT 239 |

FINAL PLANS_NO CABLE_12-12-2011.dwg

3/19/2007

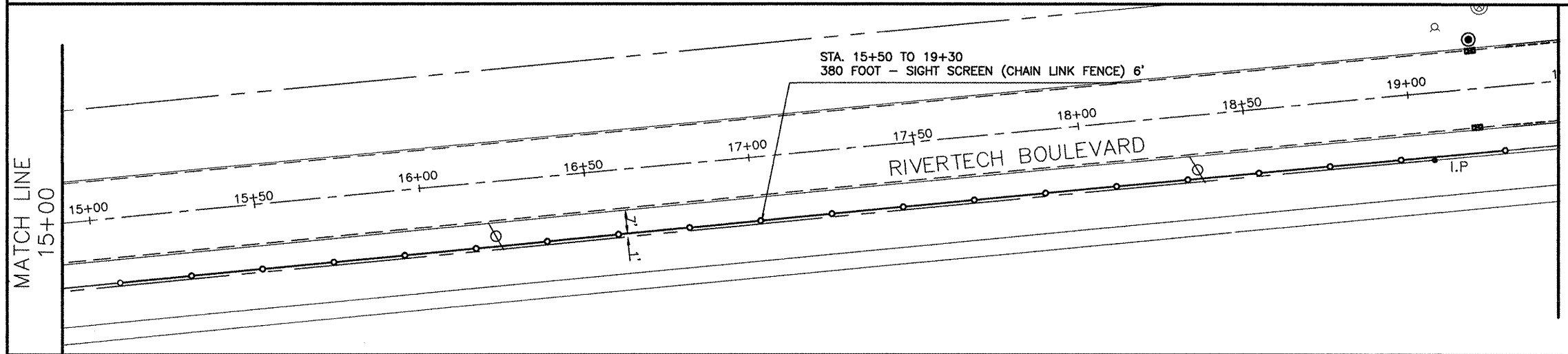
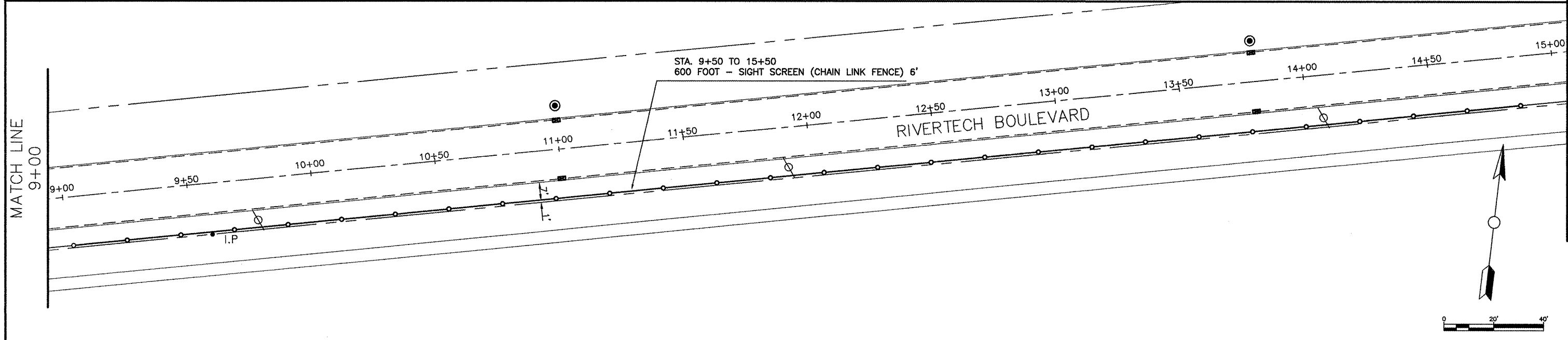
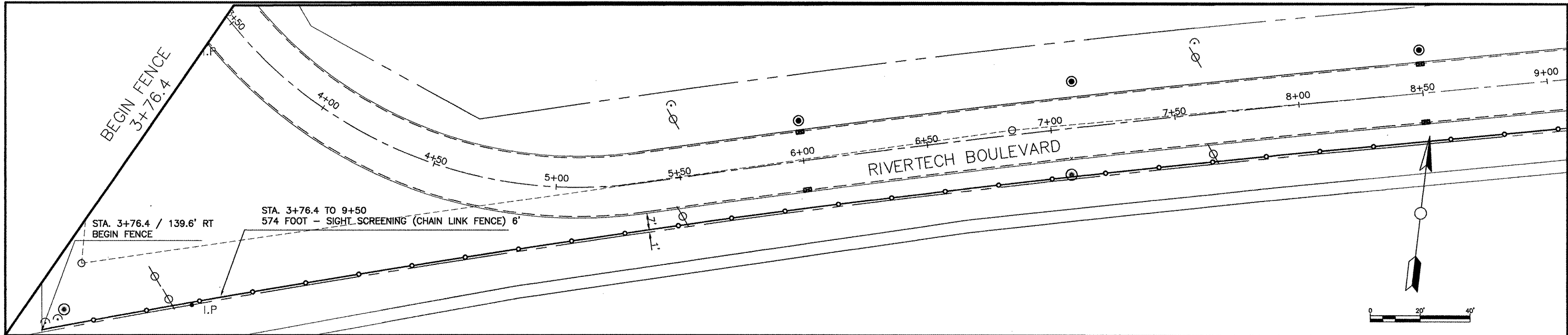


CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET NORTH OF RIVER DRIVE
 PAINT MARKING PLAN

| | |
|-----------------|----------|
| Date | 12-13-11 |
| Scale | 1:10 |
| Design Engineer | JC,MF |
| Date | |
| Revision | |

| | |
|---------|---------|
| Sheet | 14 |
| of | 34 |
| Project | MFT 239 |



SEE SHEETS 9-11 FOR CONTINUATION
OF FENCE FROM STA. 19+30
TO END OF PROJECT



CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

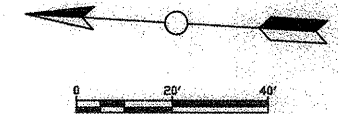
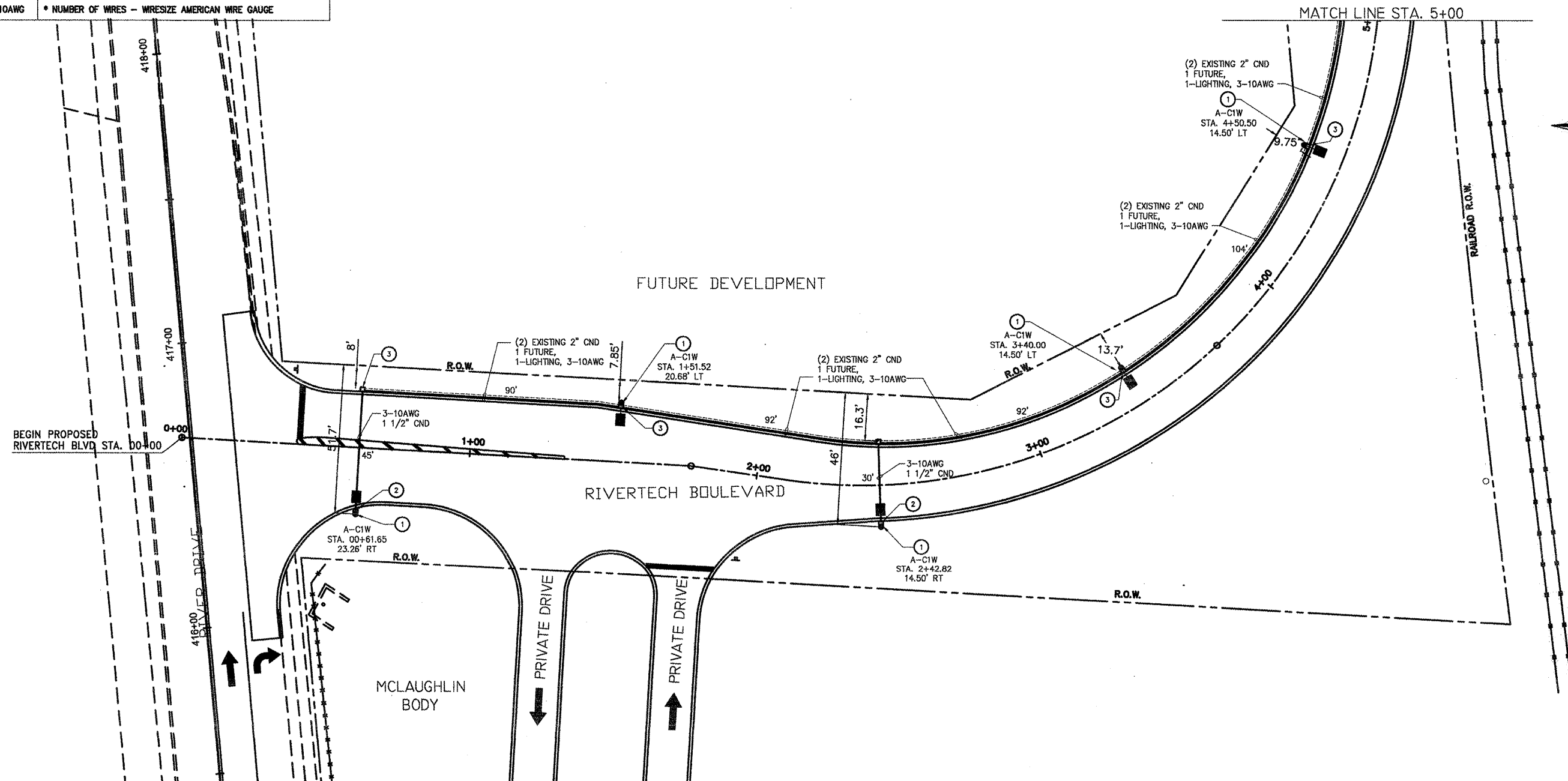
RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
FENCE PLAN

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | |
|-----------------------|-----------------|
| Date 12-13-11 | Sheet 15 of 34 |
| Scale 1:20 | Project MFT 239 |
| Design Engineer JC,MF | |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| ● | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| □ | PULL BOX |
| ② | INSTALL WITH NEW CND |
| ③ | INSTALL IN EXISTING CONDUIT, EXTEND CND INTO BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminaire | Luminaire | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |



Signature *Mark A. Valenti*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

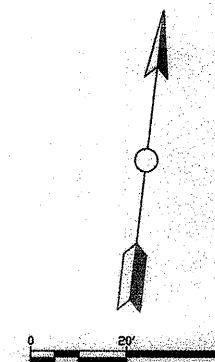
RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 00+00 TO 5+00

| Date | Revision |
|------|----------|
| | |
| | |
| | |

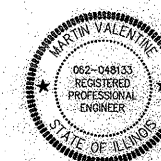
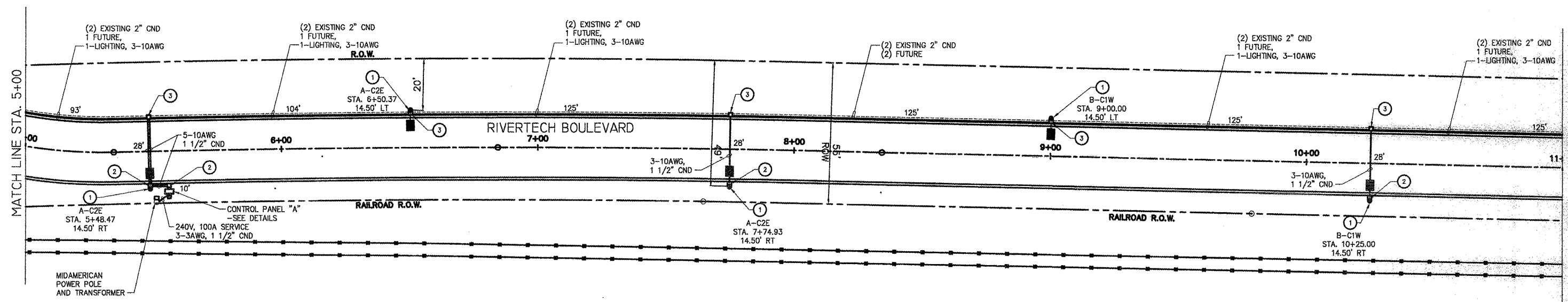
| | | | |
|-----------------|---------------|---------|---------|
| Date | 2-13-12 | Sheet | 16 |
| Scale | 1"=20' | of | 34 |
| Design Engineer | SHIVE-HATTERY | Project | MFT 239 |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| ●-■ | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| ②, ③ | PULL BOX |
| ② | INSTALL WITH NEW CND |
| ③ | INSTALL IN EXISTING CONDUIT, EXTEND CND INTO BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | Calc Type | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminance | Luminance | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |



FUTURE DEVELOPMENT



Signature *M. Valentin*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

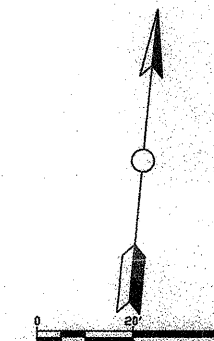
RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 5+00 TO 11+00

| Date | Revision |
|------|----------|
| | |
| | |
| | |

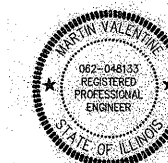
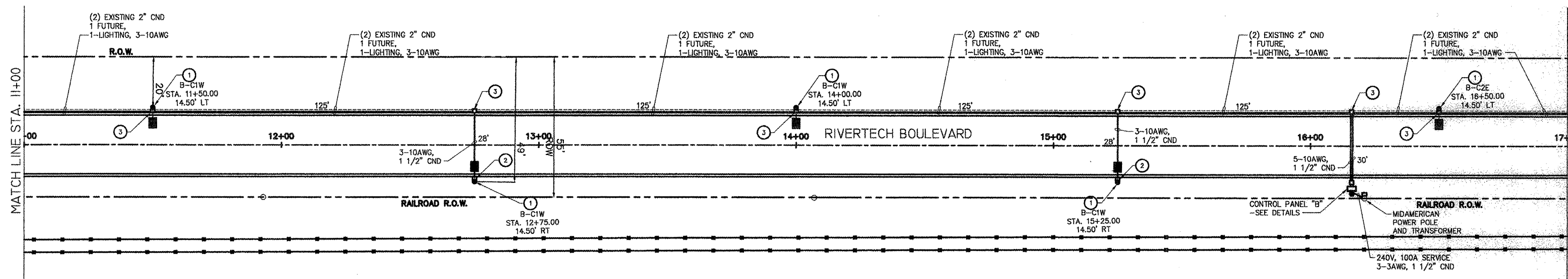
| | | | |
|-----------------|---------------|---------|---------|
| Date | 2-13-12 | Sheet | 17 |
| Scale | 1"=20' | Total | 34 |
| Design Engineer | SHIVE-HATTERY | Project | MFT 239 |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| ●-■ | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| □ | PULL BOX |
| ②, ③ | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminance | Luminance | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |



FUTURE DEVELOPMENT



Signature *Martin Valentin*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 11+00 TO 17+00

| Date | Revision |
|------|----------|
| | |
| | |
| | |

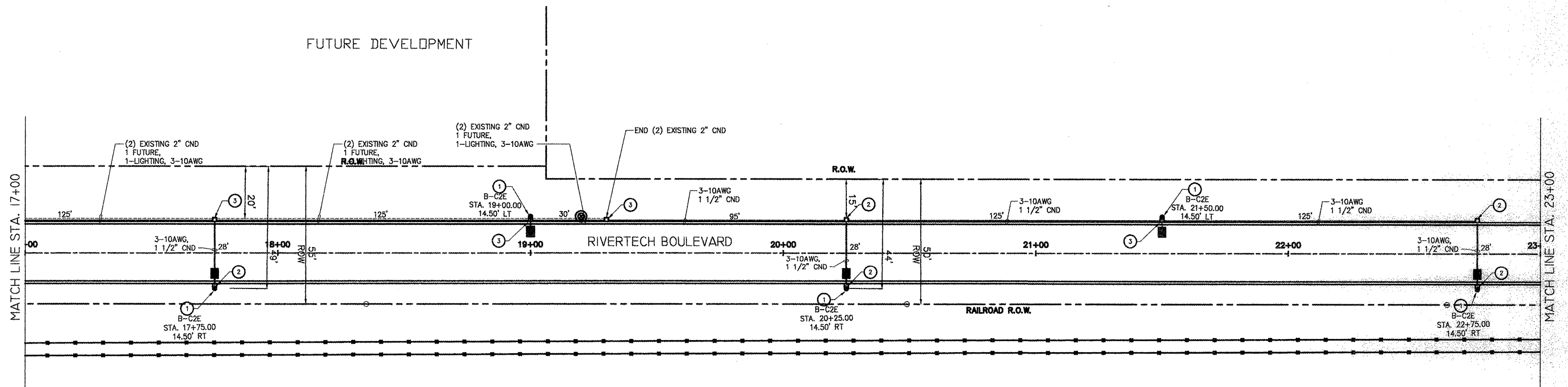
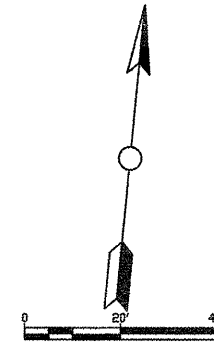
| | |
|---|---------------------------|
| Date <u>2-13-12</u> | Sheet <u>18</u> |
| Scale <u>1"=20'</u> | of <u>34</u> |
| Design Engineer SHIVE-HATTERY | Project HFT 239 |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| ●-■ | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| □ | PULL BOX |
| ② | INSTALL WITH NEW CND |
| ③ | INSTALL IN EXISTING CONDUIT, EXTEND CND INTO BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | Calc Type | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminance | Luminance | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING

1701 River Drive, Suite 200 | Moline, Illinois 61265
309.764.7650 | fax: 319.362.2883 | shive-hattery.com
Iowa | Illinois | Missouri Illinois Firm Number: 184-000214



Signature *Martin Valente*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 17+00 TO 23+00

| Date | Revision |
|------|----------|
| | |
| | |
| | |

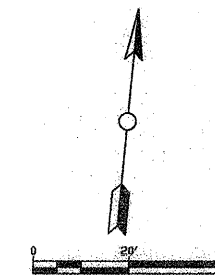
| | |
|---|---------------------------|
| Date <u>2-13-12</u> | Sheet <u>19</u> |
| Scale <u>1"=20'</u> | of <u>34</u> |
| Design Engineer SHIVE-HATTERY | Project MFT 239 |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| PLAN MARK | DESCRIPTION |
| ●-■ | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| □ | PULL BOX |
| ② | PULL BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

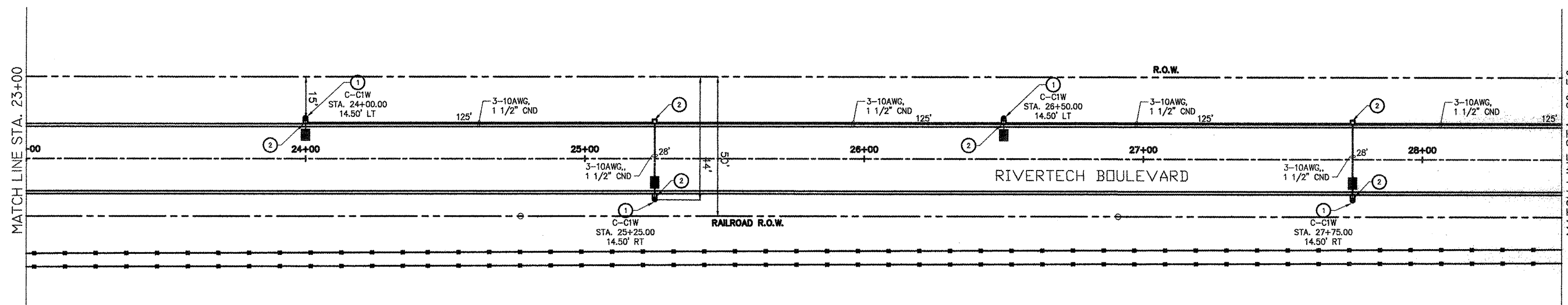
| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminance | Luminance | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING

1701 River Drive, Suite 200 | Moline, Illinois 61265
309.784.7850 | fax: 319.362.2883 | shive-hattery.com
Iowa | Illinois | Missouri | Illinois Firm Number: 184-000214



WESTERN ILLINOIS UNIVERSITY
QUAD CITY RIVERFRONT CAMPUS



Signature *M. Valente*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTech BOULEVARD
STREET LIGHTING PLAN
STA. 23+00 TO 28+50

| Date | Revision |
|------|----------|
| | |
| | |
| | |
| | |

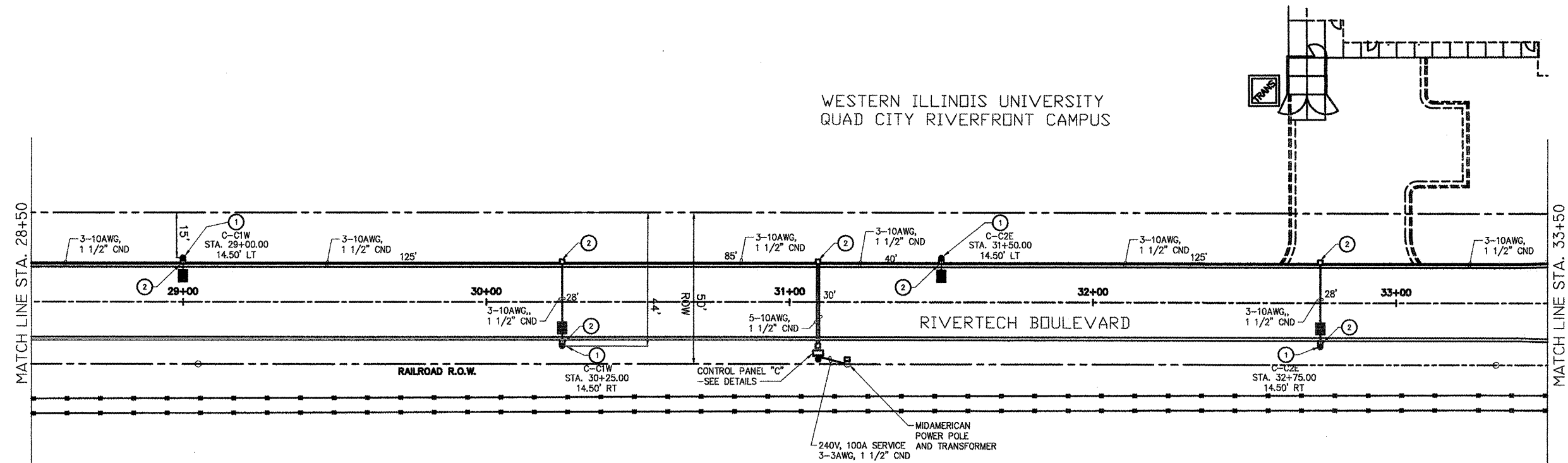
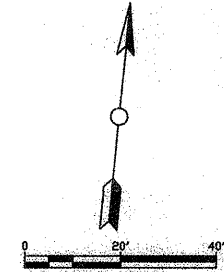
| | |
|--------------------------------------|------------------------|
| Date <u>2-13-12</u> | Sheet <u>20</u> |
| Scale <u>1"=20'</u> | of <u>34</u> |
| Design Engineer <u>SHIVE-HATTERY</u> | Project <u>NFT 239</u> |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| PLAN MARK | DESCRIPTION |
| ⬤ | STREET LIGHT AND POLE |
| ⊙ | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| ⊠ | PULL BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminance | Luminance | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |

SHIVE-HATTERY
ARCHITECTURE+ENGINEERING

1701 River Drive, Suite 200 | Moline, Illinois 61265
309.764.7850 | fax: 319.362.2883 | shive-hattery.com
Iowa | Illinois | Missouri | Illinois Firm Number: 184-000214



Signature *Martin Valentin*
Date 3/20/12
Exp. Date 11/30/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 28+50 TO 33+50

| Date | Revision |
|------|----------|
| | |
| | |
| | |

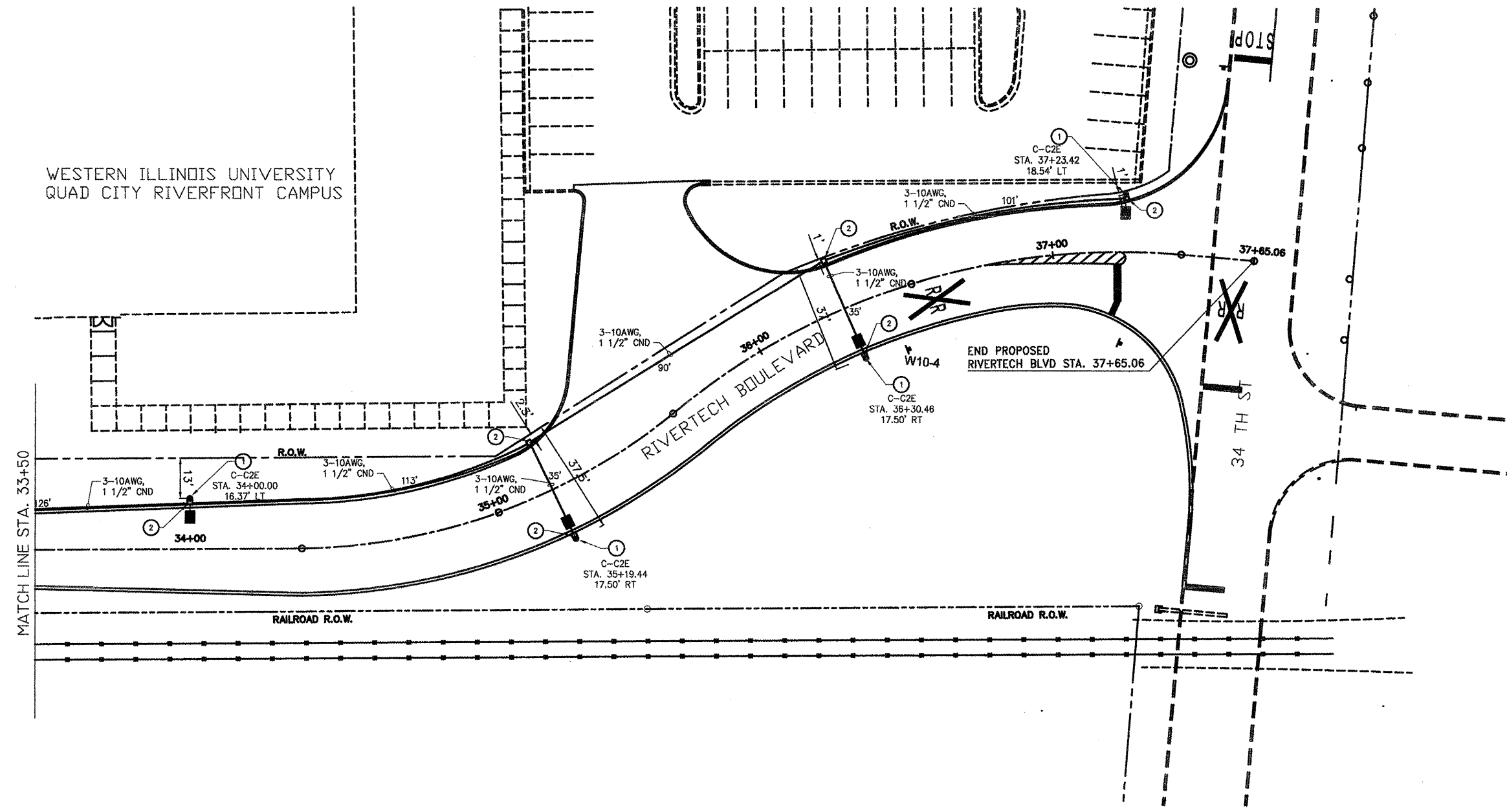
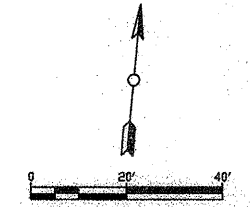
| | | | |
|-----------------|---------------|---------|---------|
| Date | 2-13-12 | Sheet | 21 |
| Scale | 1"=20' | of | 34 |
| Design Engineer | SHIVE-HATTERY | Project | MFT 239 |

| STREET LIGHTING LEGEND | |
|------------------------|---|
| GENERAL SITE | |
| PLAN MARK | DESCRIPTION |
| ●—■ | STREET LIGHT AND POLE |
| ① | LIGHT FIXTURE |
| A-CIE | CONTROL PANEL AND CIRCUIT NUMBER |
| □ | PULL BOX |
| ② | PULL BOX |
| CND | CONDUIT |
| *-10AWG | * NUMBER OF WIRES - WIRE SIZE AMERICAN WIRE GAUGE |

| Calculation Summary | | | | | | | |
|---------------------|-----------|---------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Road_Luminaire | Luminaire | Cd/Sq.m | 1.06 | 2.0 | 0.3 | 3.53 | 6.67 |

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING

1701 River Drive, Suite 200 | Moline, Illinois 61265
309.764.7650 | fax: 319.362.2883 | shive-hattery.com
Iowa | Illinois | Missouri | Illinois Firm Number: 184-000214



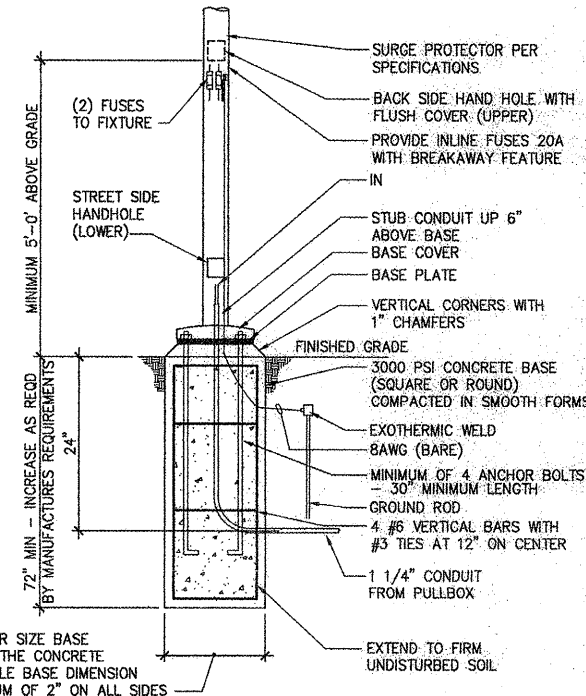
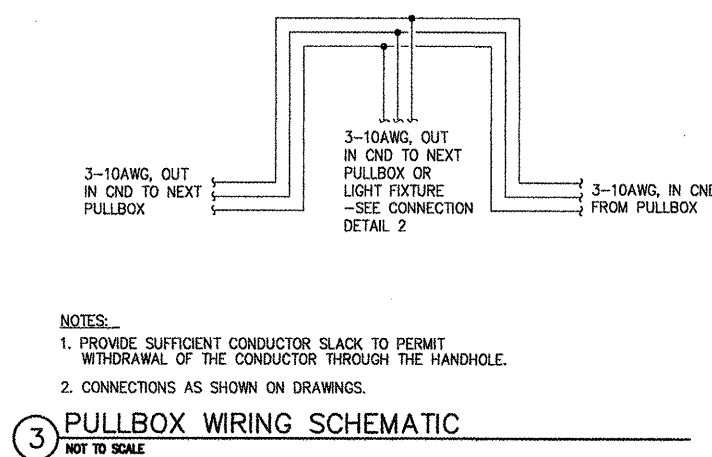
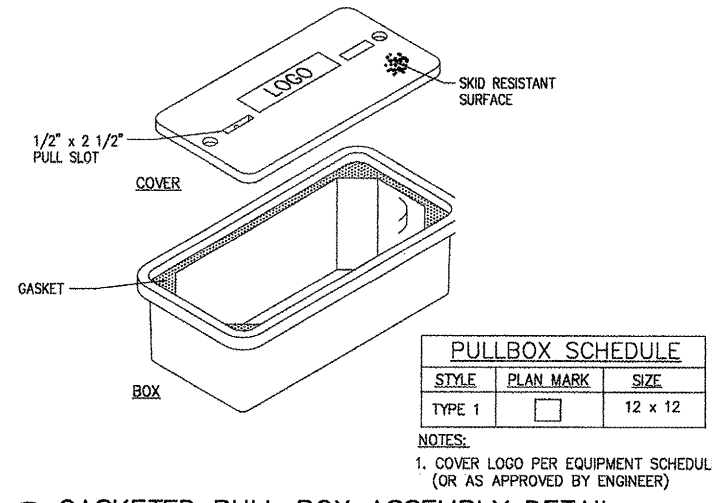
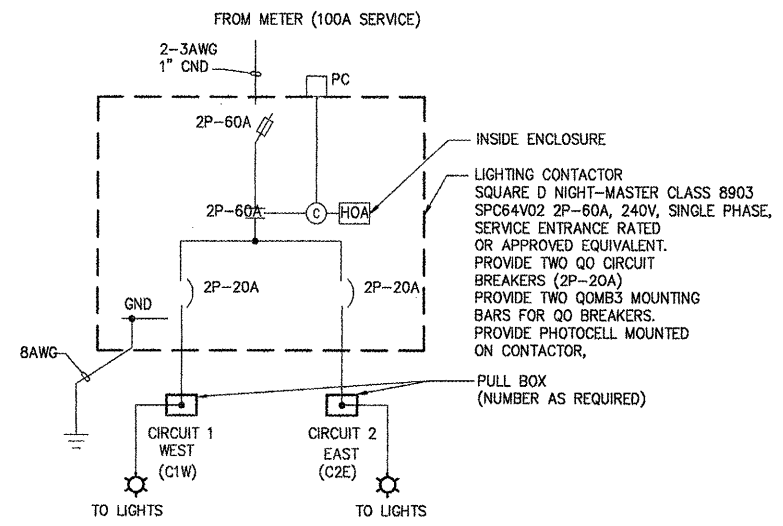
Signature: *Justin Valentin*
Date: 3/20/12
Exp. Date: 11/20/13

CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

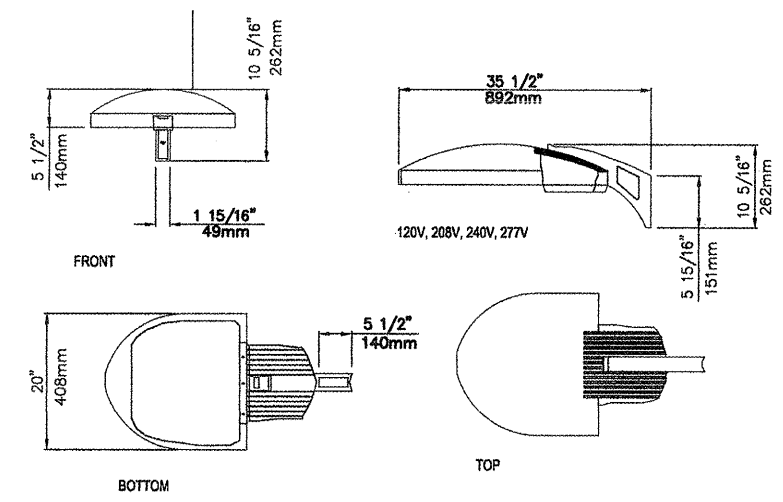
RIVERTECH BOULEVARD
STREET LIGHTING PLAN
STA. 33+50 TO 37+65

| Date | Revision |
|------|----------|
| | |
| | |
| | |

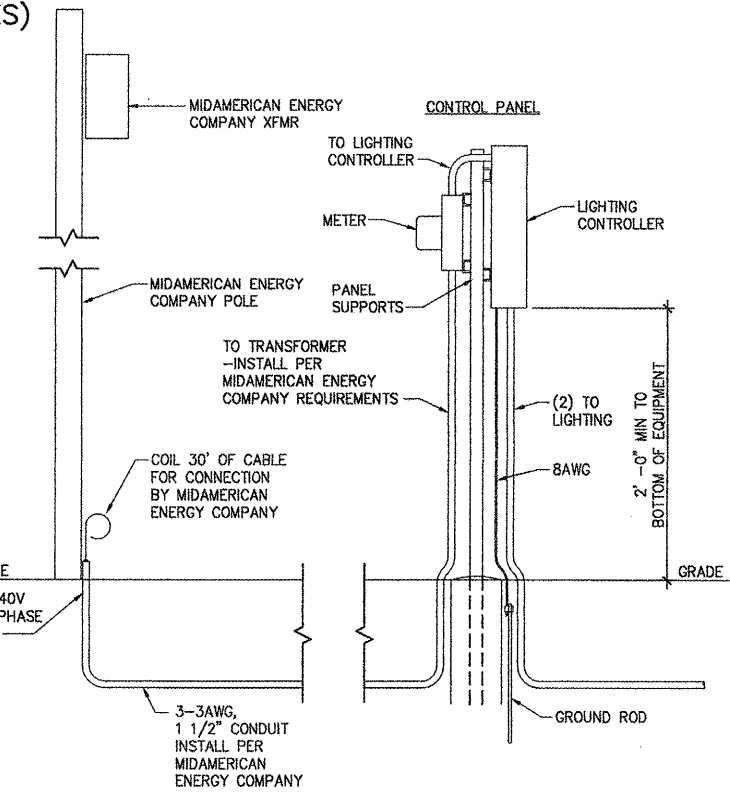
| | |
|--------------------------------|------------------|
| Date: 2-13-12 | Sheet: 22 |
| Scale: 1"=20' | of 34 |
| Design Engineer: SHIVE-HATTERY | Project: MFT 239 |



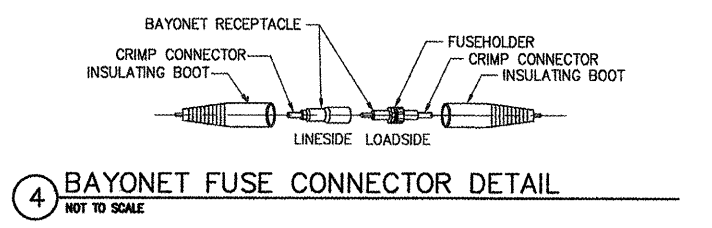
8 240V LIGHTING CONTROL DETAIL (TYPICAL FOR 3 PLACES)
NOT TO SCALE



6 GASKETED PULL BOX ASSEMBLY DETAIL
NOT TO SCALE



3 PULLBOX WIRING SCHEMATIC
NOT TO SCALE



4 BAYONET FUSE CONNECTOR DETAIL
NOT TO SCALE

9 WARP9 LED
N/A

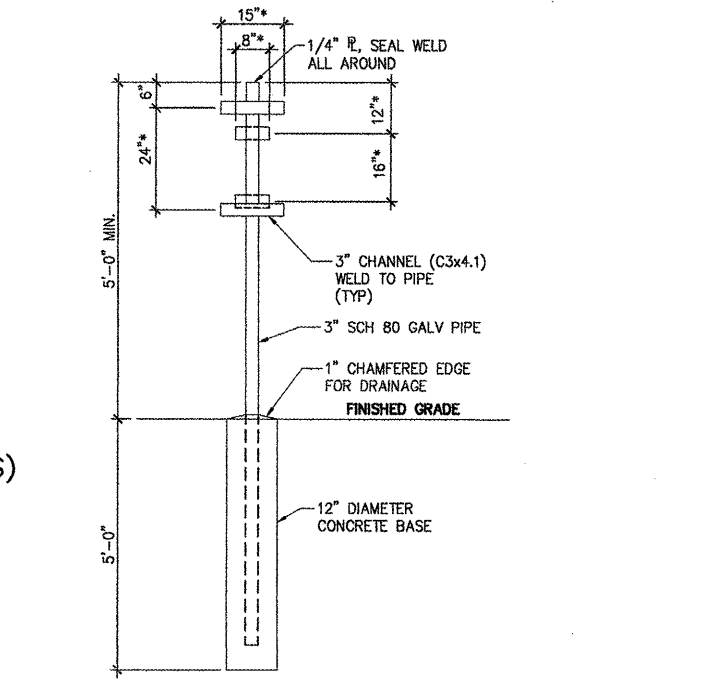
LIGHTING SUMMARY OF QUANTITIES "FOR REFERENCE ONLY"

| QUANTITY | TYPE | DESCRIPTION |
|-----------|----------|--|
| 3 | - | ELECTRIC SERVICE (240V, 100A, SINGLE PHASE) COMPLETE CONTROL PANEL A AND CONTROL PANEL B |
| 3 | - | LIGHTING CONTROL AND METERING ON SUPPORT COMPLETE WITH WIRING, CONDUIT, GROUND ROD, EXCAVATION AND FOUNDATION. CONTROL PANEL A AND CONTROL PANEL B |
| 32 | TYPE A | LUMINAIRE (TYPE III LIGHT DISTRIBUTION) COMPLETE WITH WIRING, SURGE PROTECTION, FUSES AND SPLICES. |
| 32 | ALUMINUM | 16 FOOT LIGHT POLE |
| 32 | - | LIGHT POLE FOUNDATION COMPLETE WITH EXCAVATION, CONDUIT TO PULLBOX, GROUND WIRE AND GROUND ROD. |
| 54 | TYPE 1 | PULLBOX |
| 4,100 FT. | - | 3-10 AWG WIRING |
| 120 FT. | - | 5-10 AWG WIRING |
| 200 FT. | - | 3-3 AWG WIRING |
| 275 FT. | 1 1/2" | CONDUIT (PUSHED) |
| 1,920 FT. | 1 1/2" | CONDUIT (TRENCHED) |

7 240V, 3 WIRE 100A SERVICE DETAIL (TYPICAL FOR 3 PLACES)
NOT TO SCALE

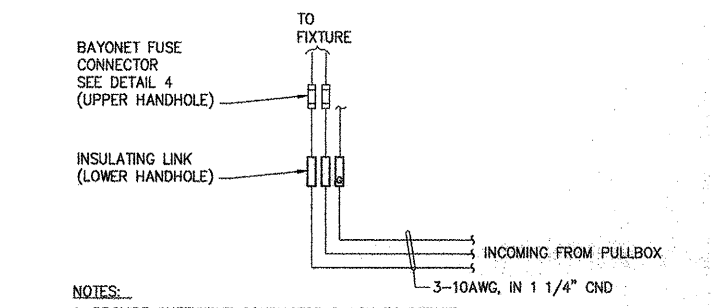
EQUIPMENT SCHEDULE

| ITEM | DESCRIPTION | PART # |
|---------------------------|---|---|
| LIGHT FIXTURE TYPE A ① | 140 WATT LED STREET LIGHT AND 16" ROUND ALUMINUM POLE WITH HANDHOLE AT 5' MIN. (BACK SIDE) AND HANDHOLE AT BASE (STREET SIDE). LIGHT DISTRIBUTION TYPE III. | LAMP: KIM LIGHTING 1SA/WP9LE3/LSK240/SG/DF/TB/VSF-1SA POLE: WJM MFG. RA6000716-GY(KIM STEALTH GRAY)2-BC-VD |
| PULLBOX TYPE 1 ② ③ | PULLBOX W/COVER LOGO 'LIGHTING', | QUAZITE STRONGWELL: 12"x12" PC1212BA12 W/PC1212CA00 COVER OR APPROVED EQUIVALENT |



5 EQUIPMENT MOUNTING FRAME DETAIL (3 REQUIRED)
NOT TO SCALE

1 LIGHT POLE BASE DETAIL
NOT TO SCALE

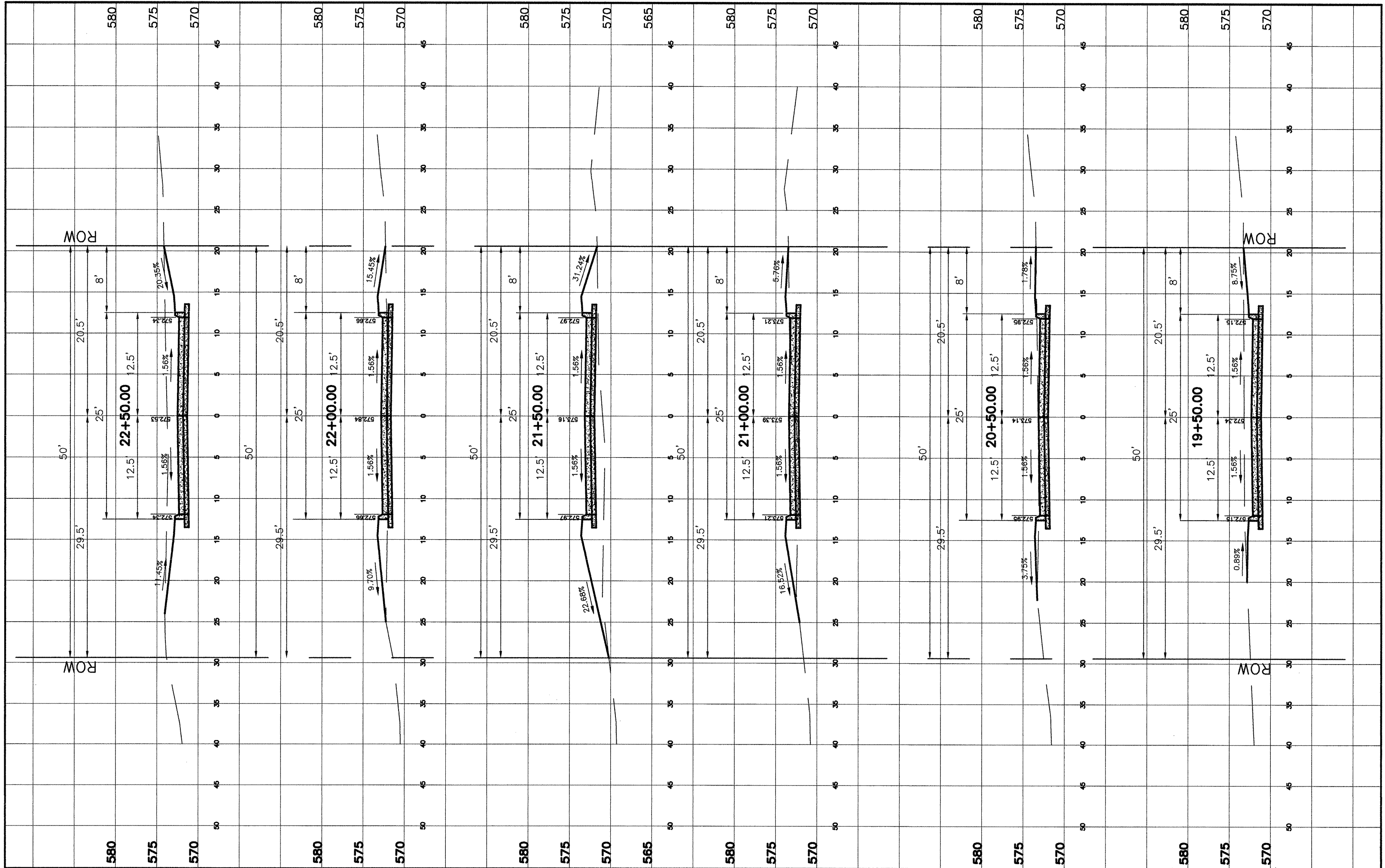


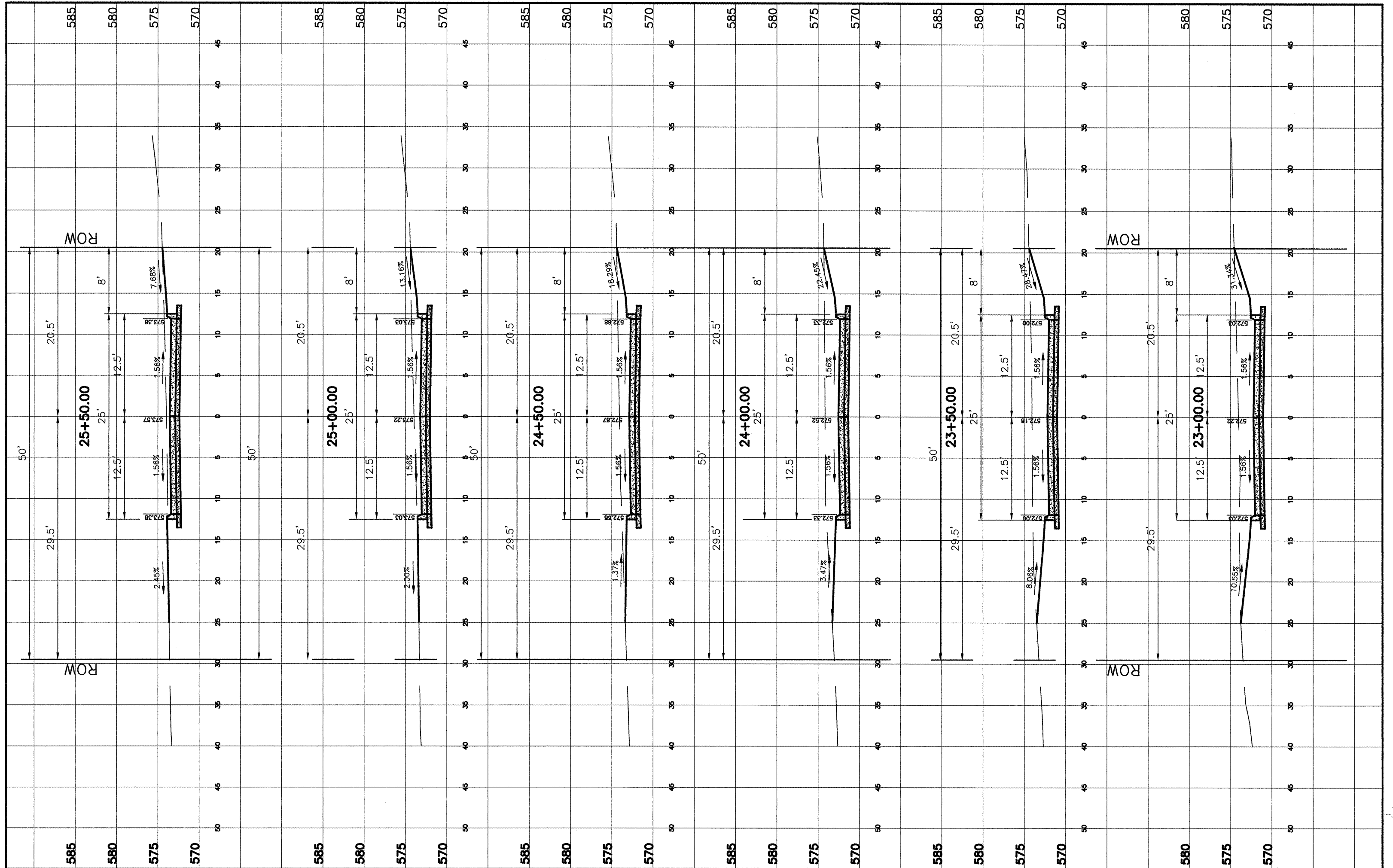
2 CONNECTION DETAIL
NOT TO SCALE

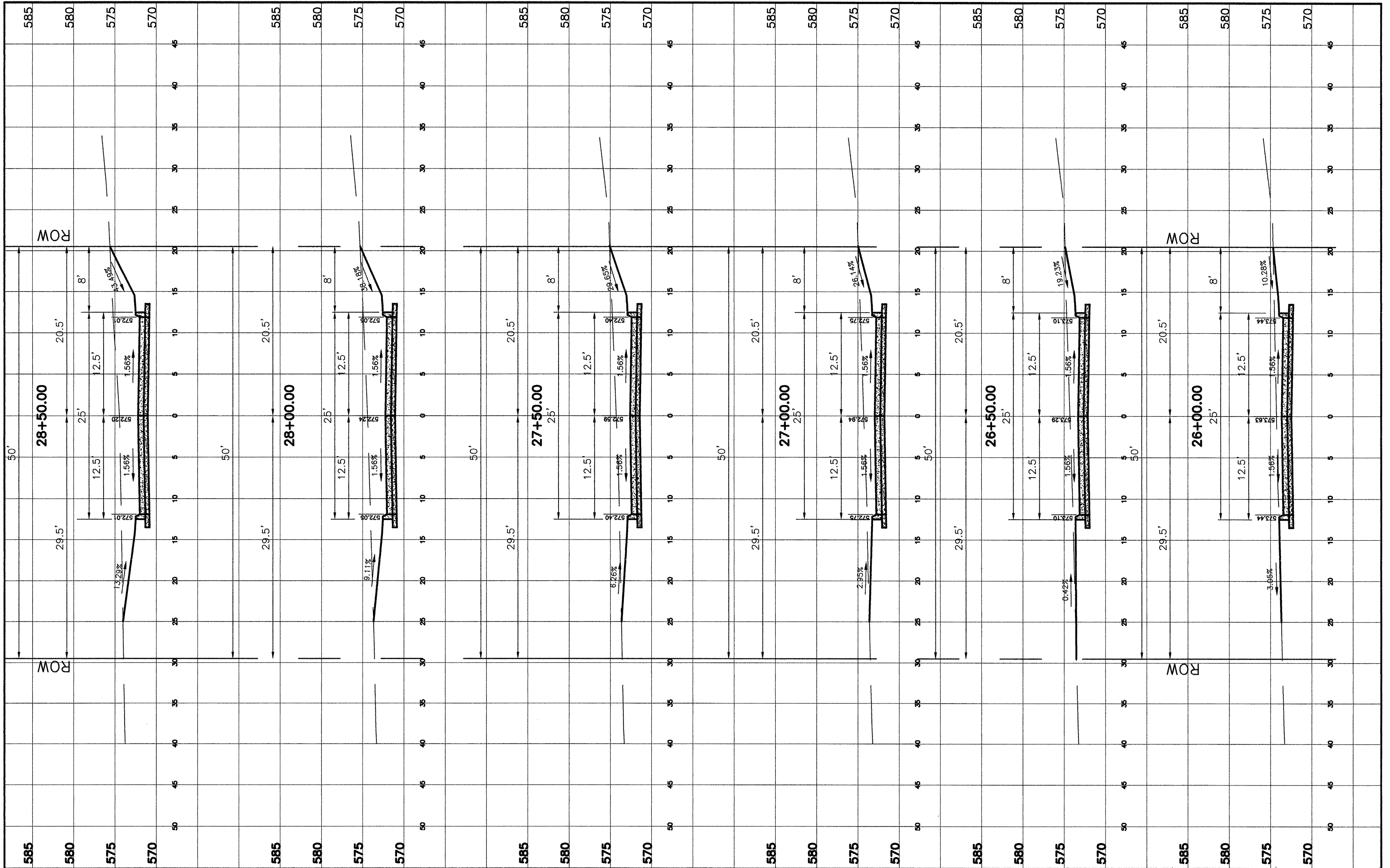
- ELECTRICAL NOTES
- ELECTRICAL WORK SHALL BE INSTALLED PER NATIONAL ELECTRICAL CODE.
 - EACH CONDUIT SHALL INCLUDE A GROUND UNLESS NOTED OTHERWISE.
 - CONDUITS SHALL BE 1 1/2" PVC UNLESS NOTED OTHERWISE.
 - WIRE TYPE - USE. (10AWG UNLESS NOTED OTHERWISE)
 - COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, CONDUIT AND WIRING WITH MIDAMERICAN ENERGY COMPANY, EXISTING SITE CONDITIONS AND CITY OF MOLINE.
 - ELECTRICAL DRAWINGS NOT-TO-SCALE. SEE CIVIL DRAWINGS FOR POLE AND EQUIPMENT LOCATIONS, COORDINATE WITH CITY OF MOLINE.
 - ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ELECTRICAL STANDARDS MANUAL AND THE STREET LIGHTING PLANS. THIS WORK WILL BE MEASURED AS A LUMP SUM ITEM AND PAYMENT WILL BE MADE FOR "ELECTRICAL SYSTEM COMPLETE".

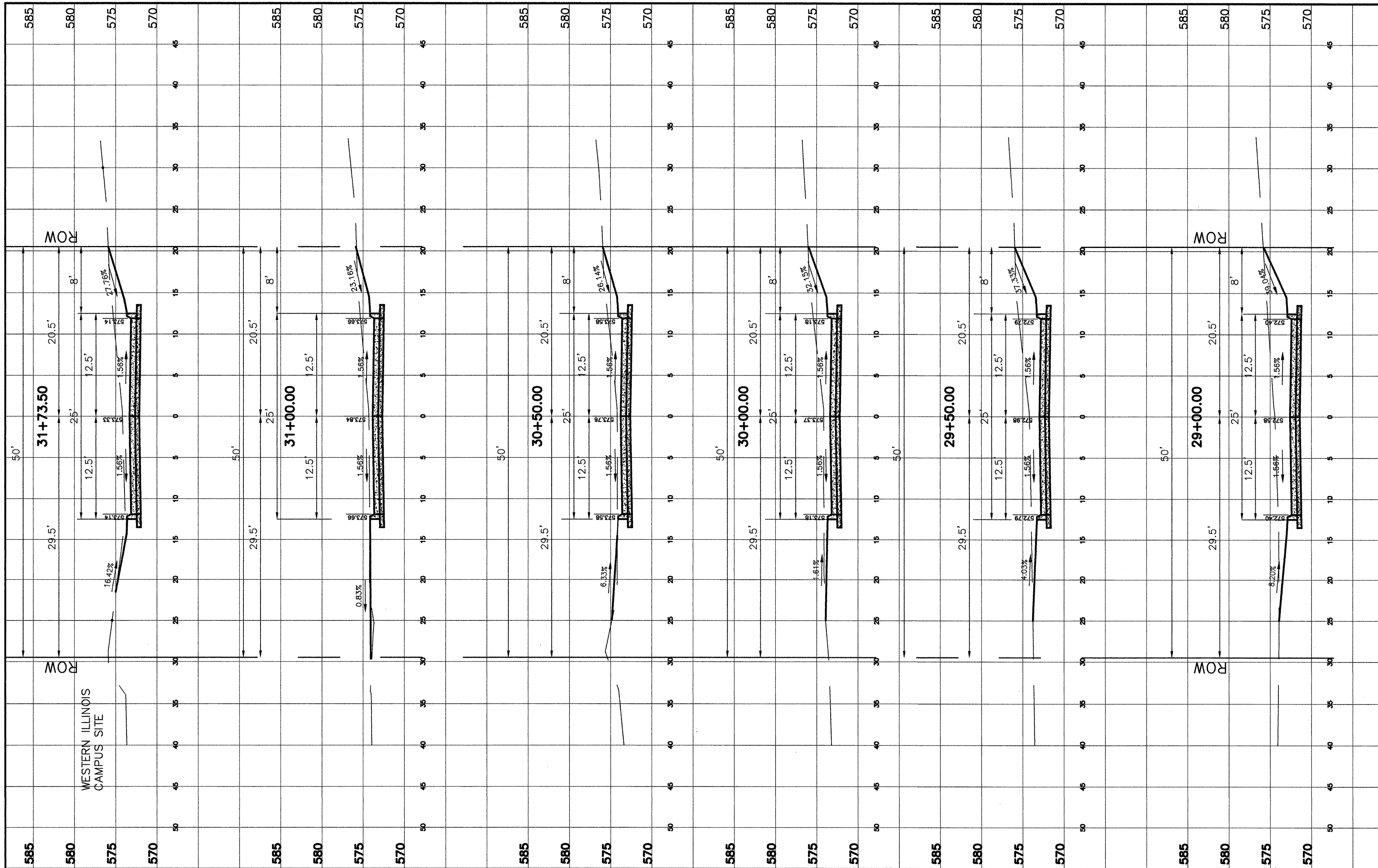


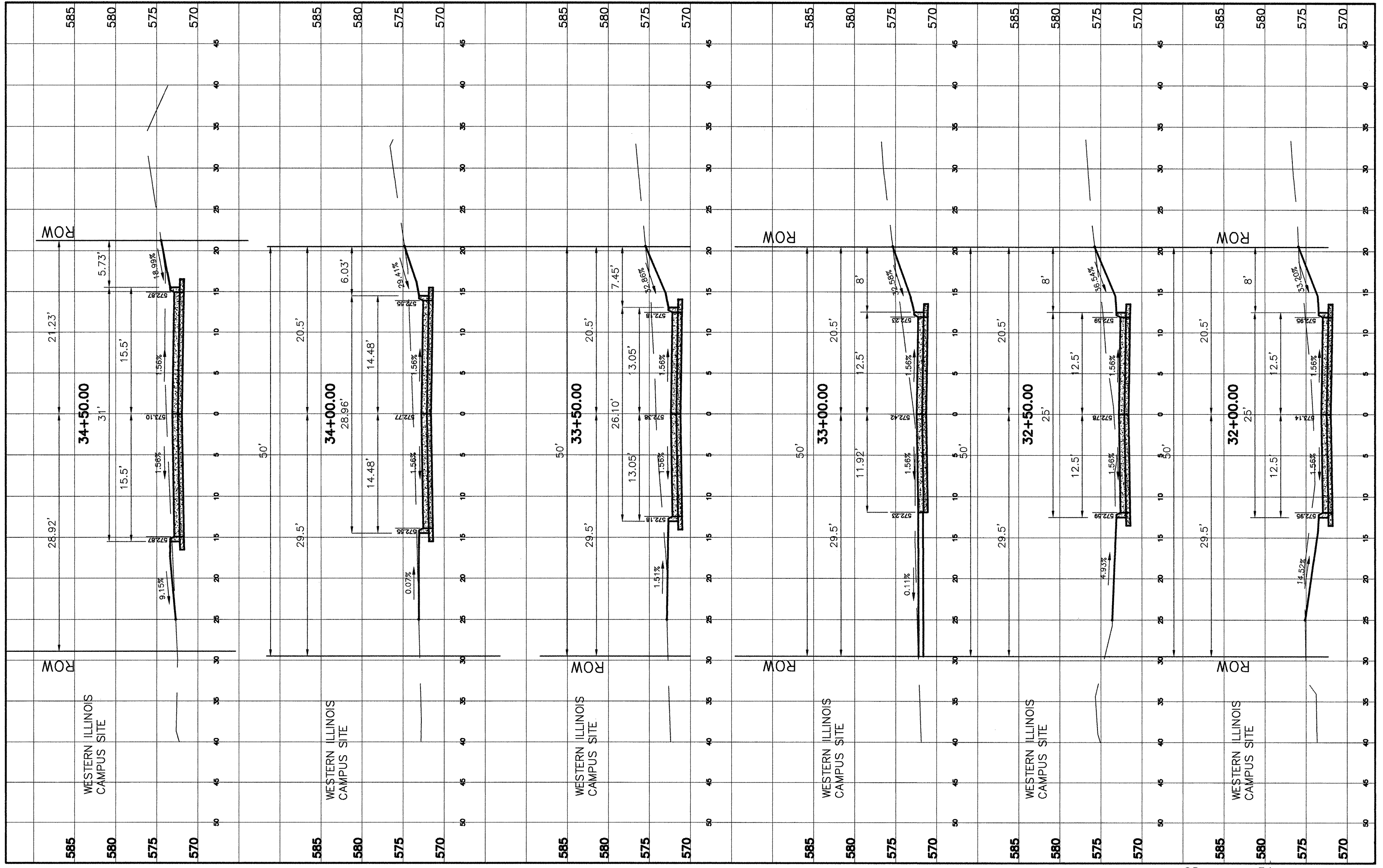
Signature: Justin Valentine
Date: 7/22/12
Exp. Date: 11/30/13

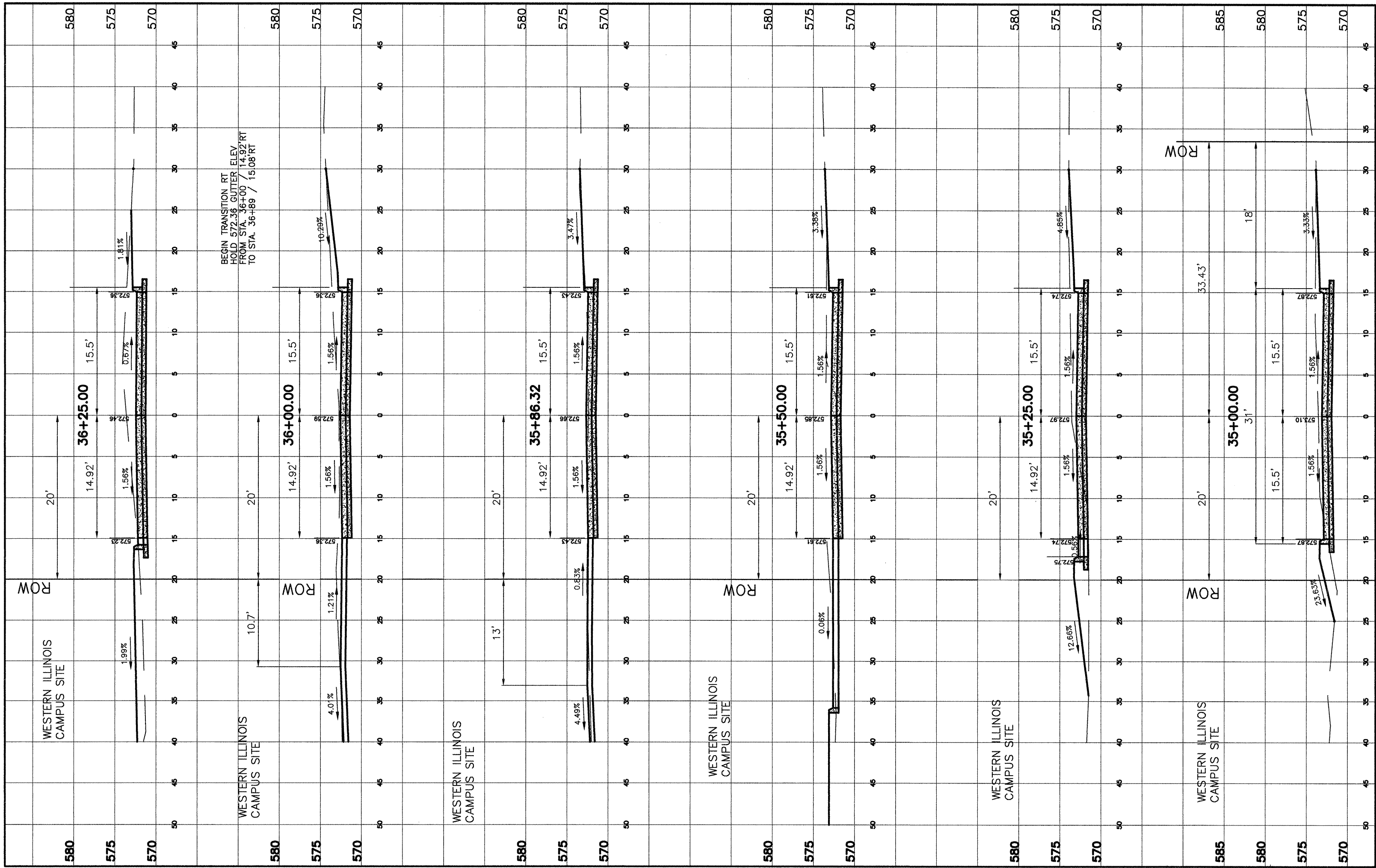


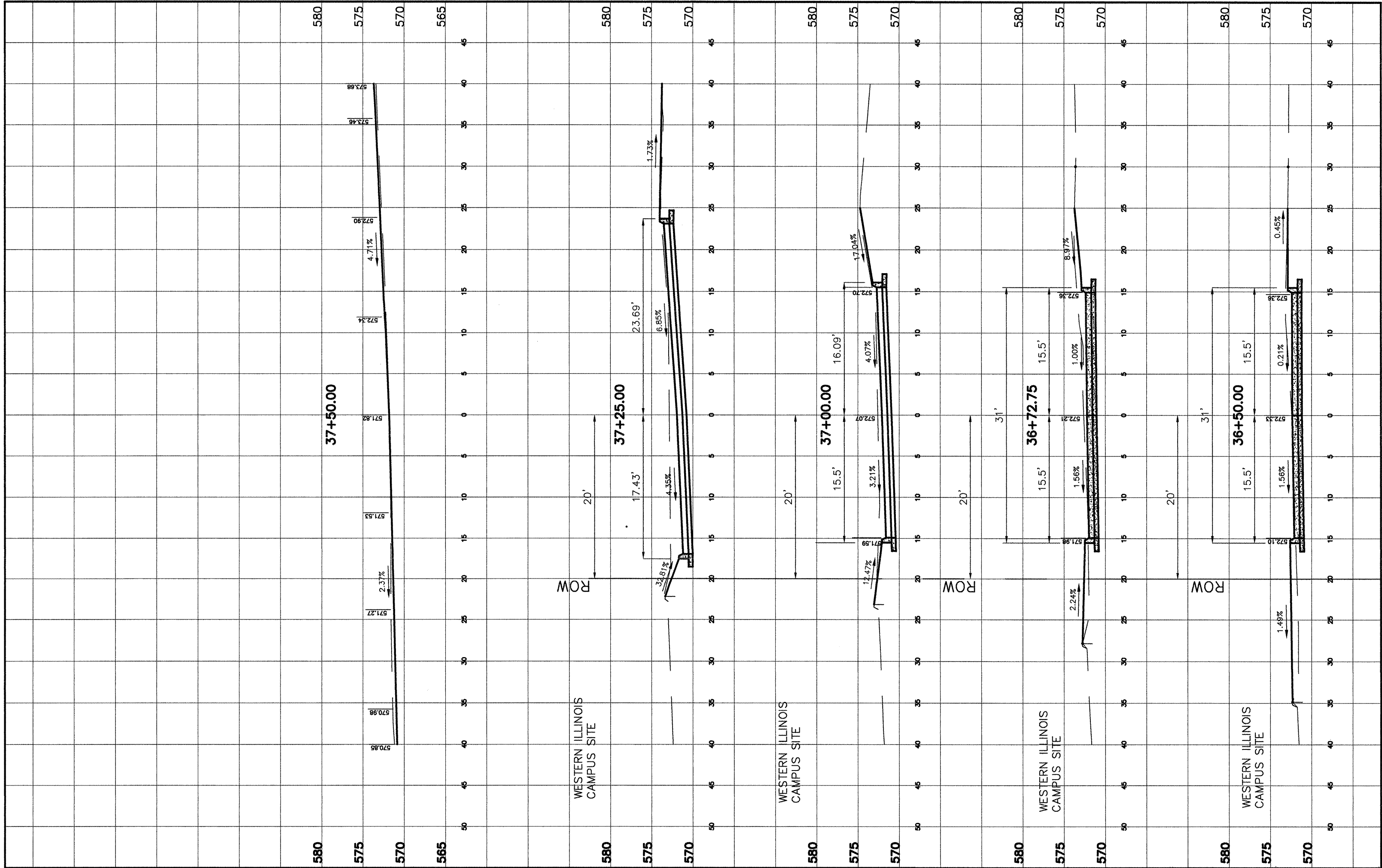


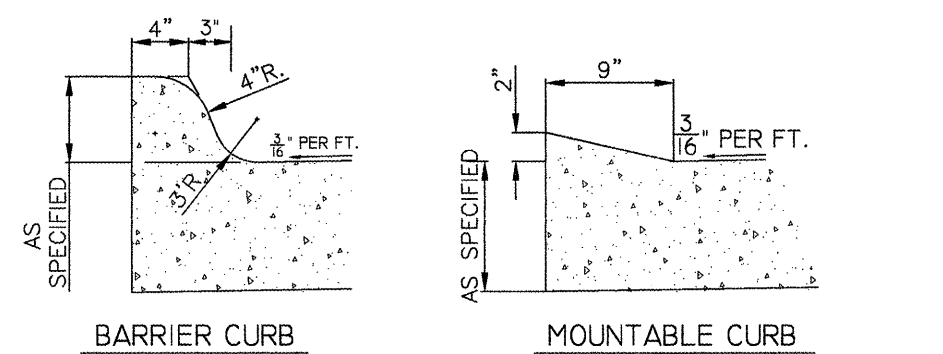




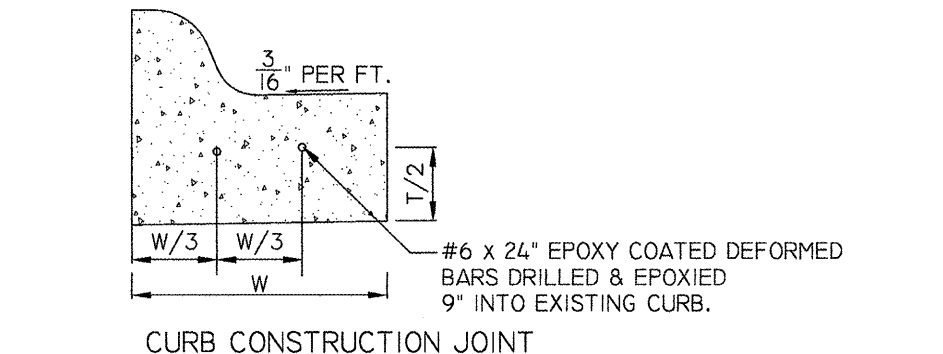




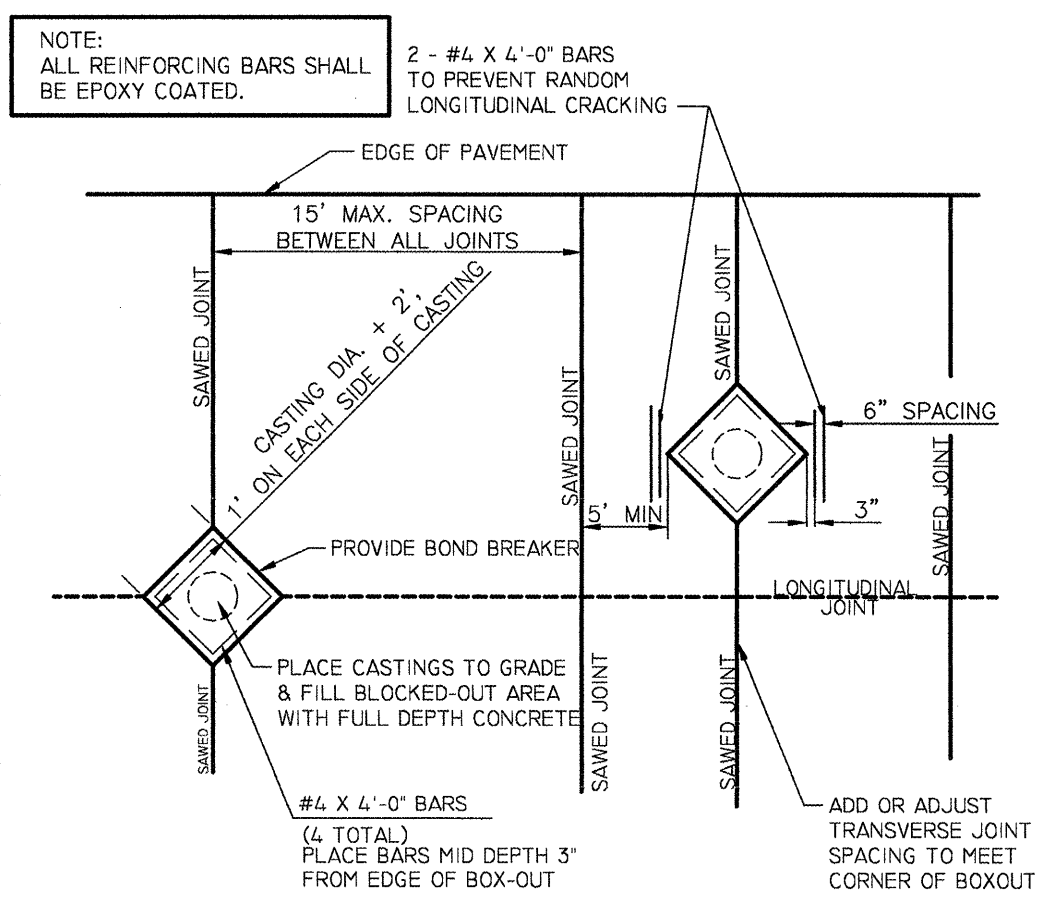




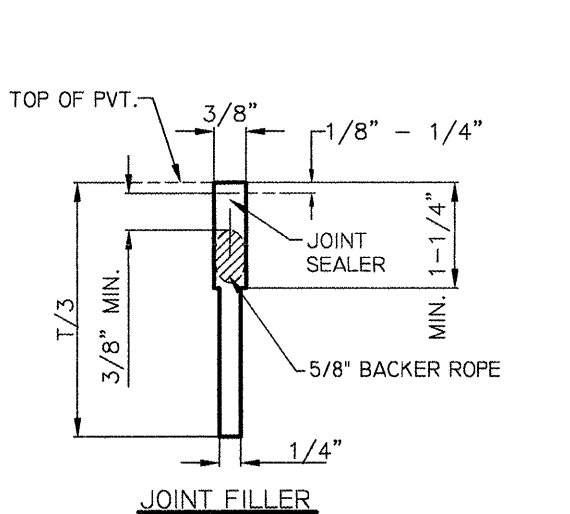
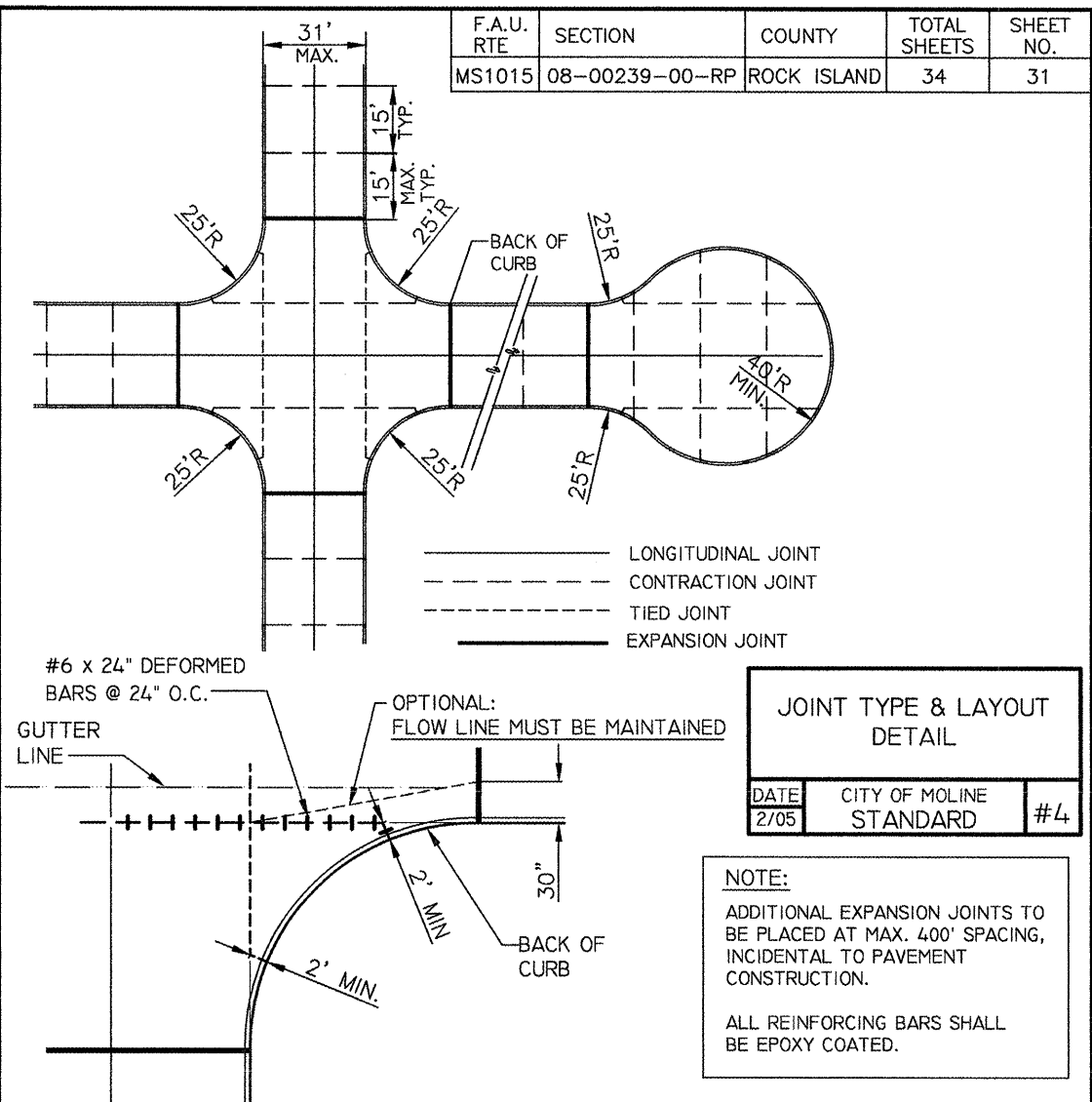
NOTE:
ALL HONEYCOMBED AND OR POROUS AREAS IN BACK OF CURB WILL BE CORRECTED AS DIRECTED BY THE ENGINEER.



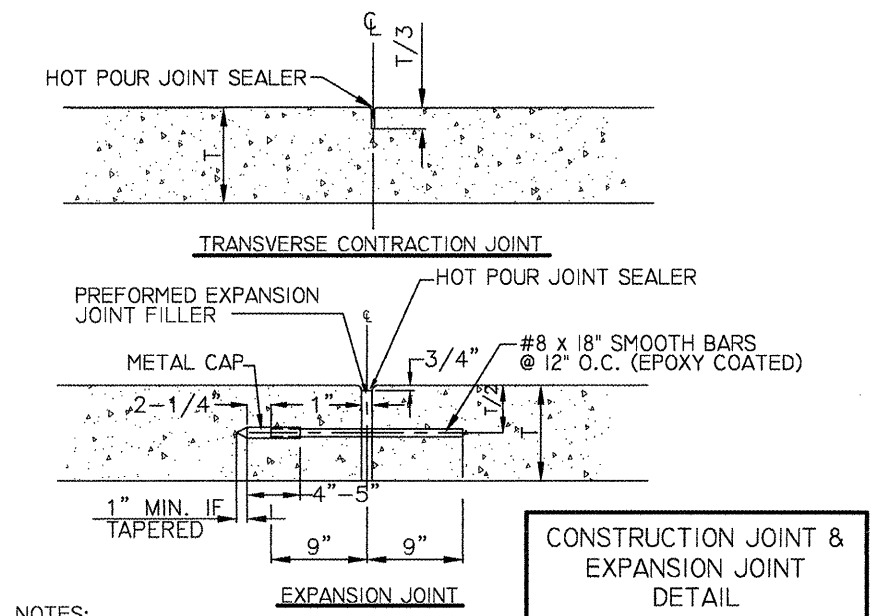
| | | |
|--|----------------------|----------------------------|
| | INTEGRAL CURB DETAIL | |
| | DATE 12/05 | CITY OF MOLINE STANDARD #2 |



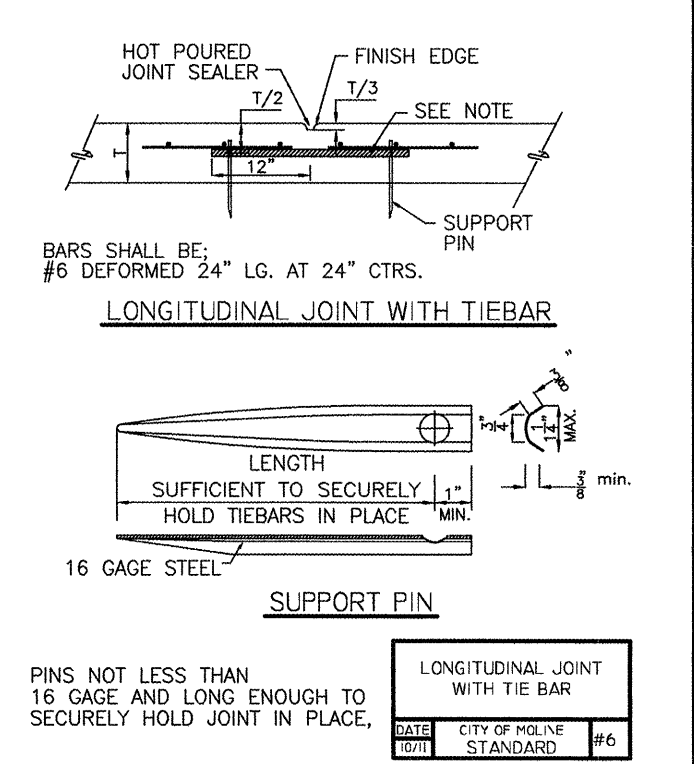
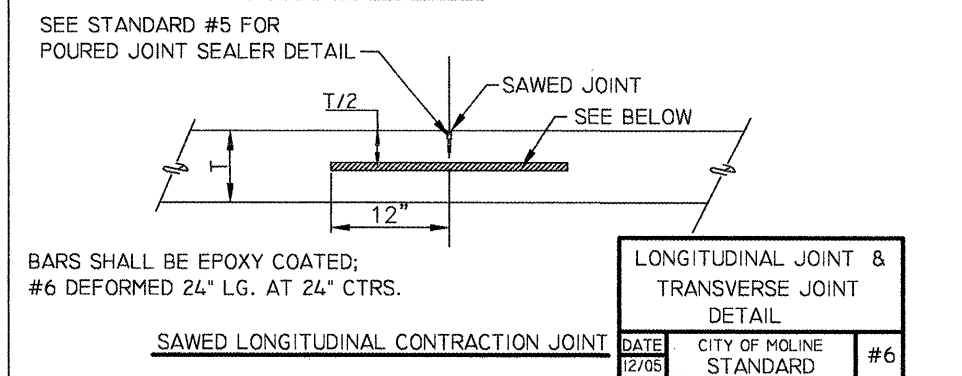
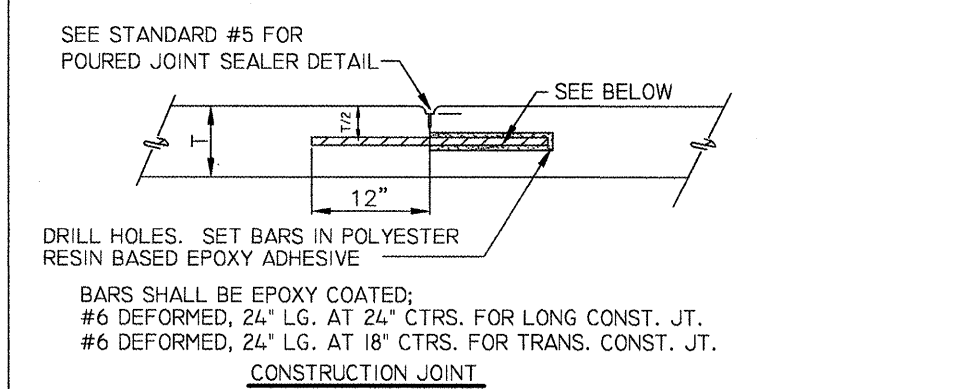
| | |
|------------------------|----------------------------|
| MANHOLE BOX OUT DETAIL | |
| DATE 1/07 | CITY OF MOLINE STANDARD #3 |



- AFTER SAWING, FLUSH JOINT WITH WATER OR AIR.
- CLEAN BY SAND BLASTING UNTIL SURFACES ARE FREE OF SAWCUTTING FINES
- JUST PRIOR TO INSTALLATION OF BACKER ROPE, BLOW WITH OIL AND WATER FREE COMPRESSED AIR TO ELIMINATE SAND AND WATER.



NOTES:
HOLES SHALL BE DRILLED IN PREFORMED EXPANSION JOINT FILLER.
NO SLOTS OR GAPS WILL BE ALLOWED.
DOWEL BARS SHALL BE GREASED TO THE SATISFACTION OF THE ENGINEER.

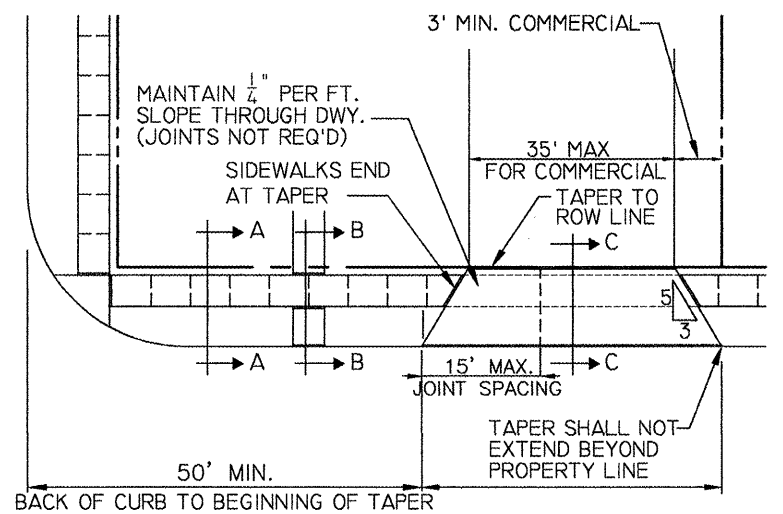


| | |
|------------------------------------|---|
| | CITY OF MOLINE |
| | DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION |
| | 3635 4TH AVENUE, MOLINE, IL 61265 |
| | (309) 524-2350 |
| CITY ENGINEER - SCOTT HINTON, P.E. | |

| | |
|-----------------------------------|----------|
| RIVERTECH BOULEVARD | |
| 34TH STREET, SOUTH OF RIVER DRIVE | |
| DETAILS | |
| Date | Revision |

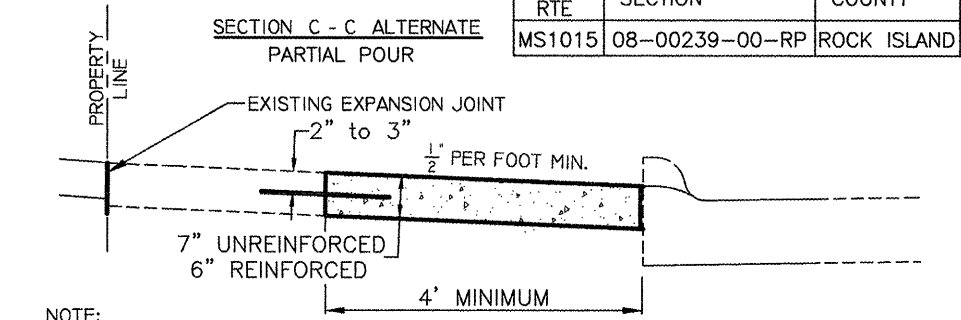
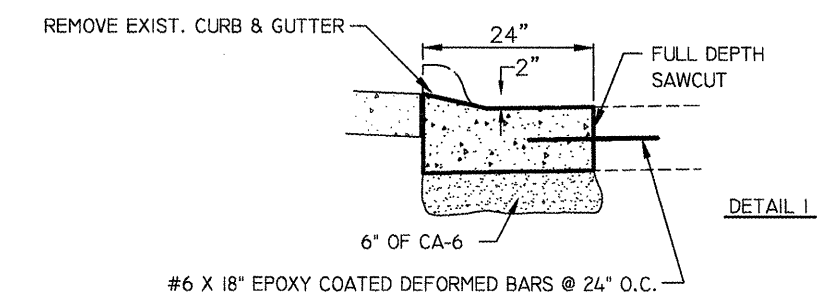
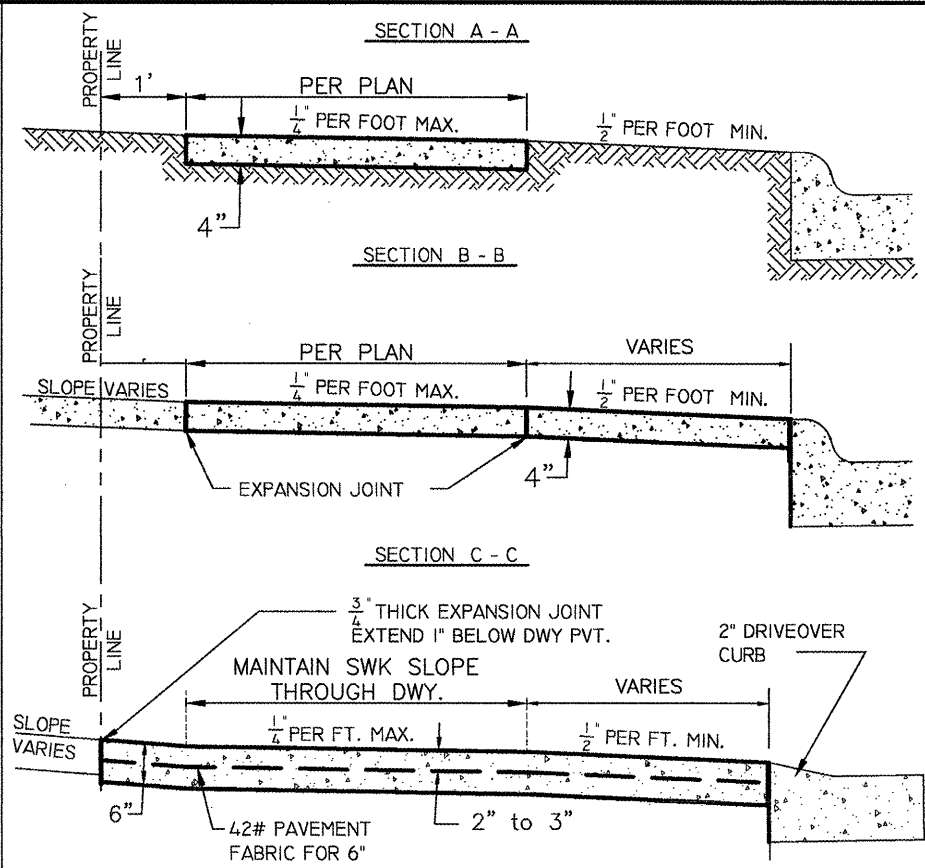
| | |
|--------------------|-----------------|
| Date 12/13/11 | Sheet 31 of 34 |
| Scale N.T.S. | Project MFT 239 |
| Design Engineer JC | |

| | | | | |
|------------|----------------|-------------|--------------|-----------|
| F.A.U. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| MS1015 | 08-00239-00-RP | ROCK ISLAND | 34 | 32 |

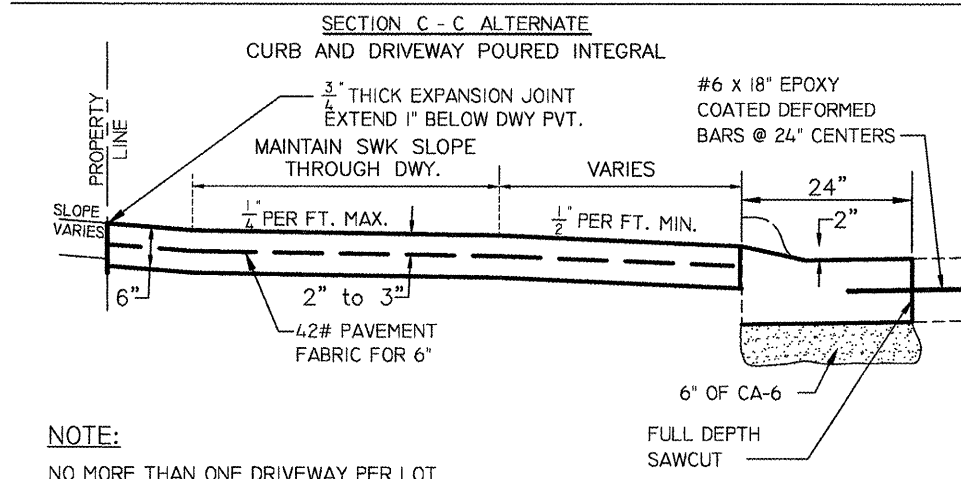


--- CONTRACTION JOINT 5' MAXIMUM SPACING
 --- 3/4" EXPANSION JOINT 100' MAXIMUM SPACING & AT OTHER SIDEWALKS & PROPERTY LINES

| RESIDENTIAL/COMMERCIAL DRIVEWAY & SIDEWALK DETAILS | | |
|--|-------------------------|----|
| DATE | CITY OF MOLINE STANDARD | #8 |
| 10/11 | | |

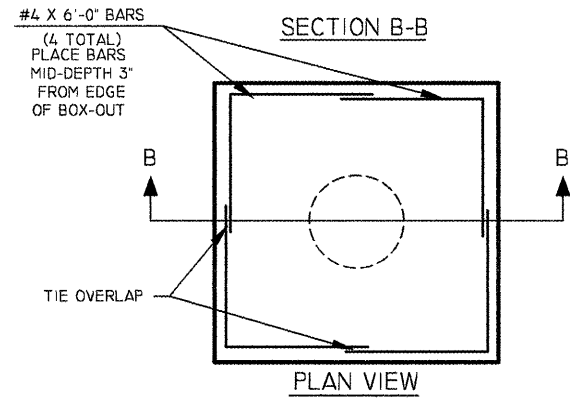
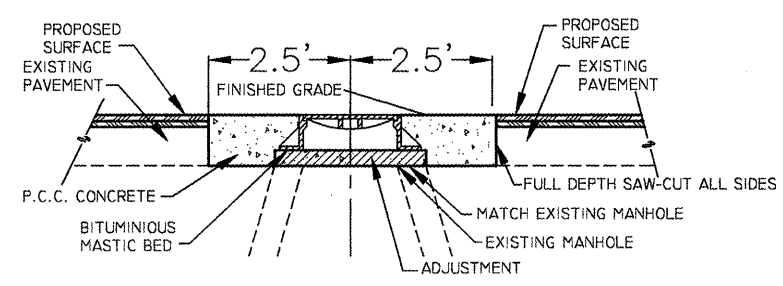


NOTE:
#4 x 18" EPOXY COATED DEFORMED BARS @ 12" CENTERS.
NO EXPANSION JOINT IS REQUIRED.



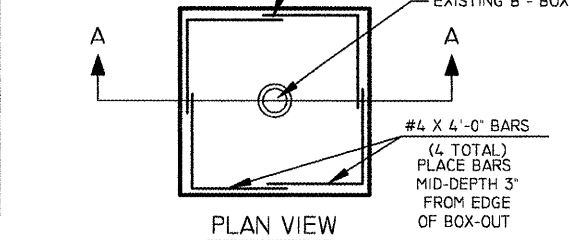
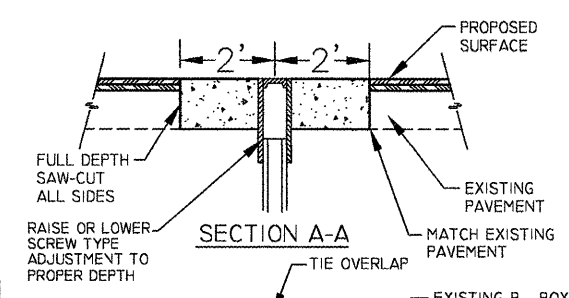
NOTE:
NO MORE THAN ONE DRIVEWAY PER LOT
ALL JOINTS AT BACK OF CURB SHALL BE SEALED WITH APPROVED POURED JOINT SEALER.
DRIVEWAY PAVEMENT SHALL BE 6" REINFORCED OR 7" PLAIN CEMENT CONCRETE.
WHERE THE STREET PAVEMENT HAS 6" CURB, THE CURB SHALL BE REMOVED & REPLACED AS SHOWN IN DETAIL I OR C-C ALT. CURB MAY BE CUT OFF WITH A SAW DESIGNED FOR THIS APPLICATION.
REINFORCING SHALL BE MESH WEIGHING 42 LBS. PER 100 SQUARE FEET.

| TYPICAL BOULEVARD SECTIONS DETAIL | | |
|-----------------------------------|-------------------------|-----|
| DATE | CITY OF MOLINE STANDARD | #10 |
| 1/11 | | |



MANHOLE ADJUSTMENT DETAIL

NOTE:
When required, a cast in place concrete collar shall be used. Adjustments shall be made using cast in place concrete or HI-SPEC grout TYPE 'S' or approved equal. Drilled bars shall be used when extending walls to the proper elevation. Bars shall be #4, drilled 4" into existing walls at 12" centers. All reinforcement bars shall be epoxy coated. Any bricks and/or adjustment rings shall be removed and replaced with this method of adjustment.
The casting shall be sealed to the concrete with a mastic type material approved by the engineer.
Existing and un-used castings shall remain the property of the City and shall be delivered to a storage location determined by the City.



B - BOX ADJUSTMENT DETAIL

| TYPICAL ADJUSTMENT DETAIL | | |
|---------------------------|-------------------------|-----|
| DATE | CITY OF MOLINE STANDARD | #13 |
| 1/11 | | |



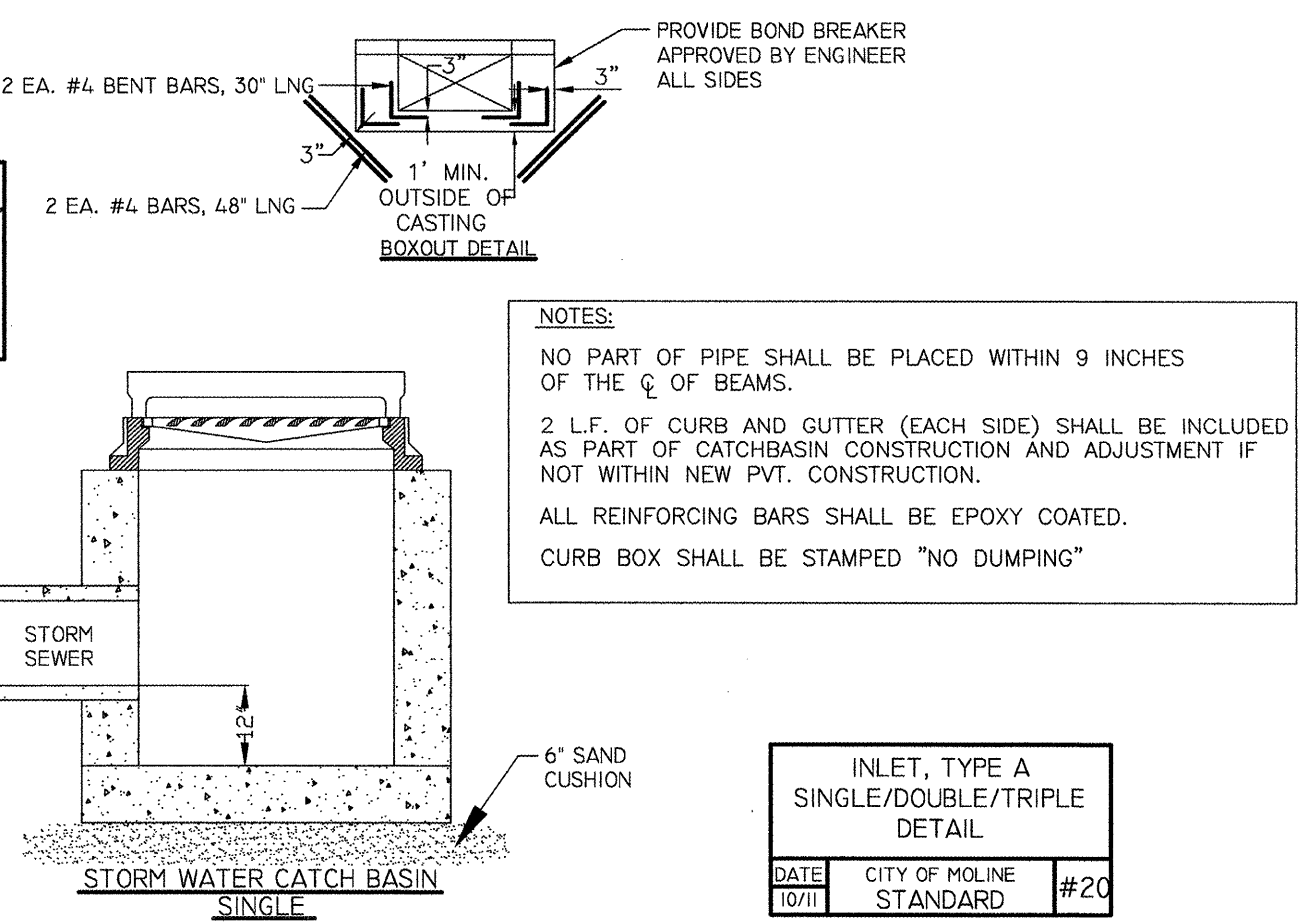
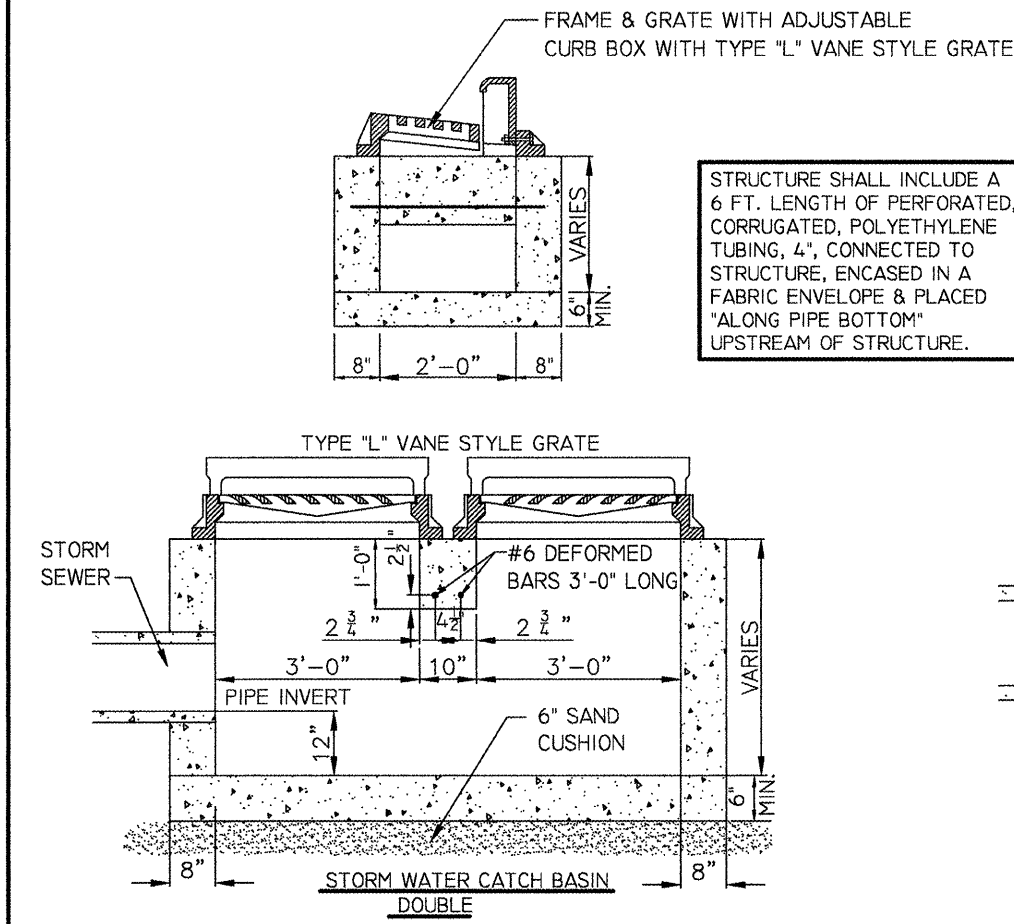
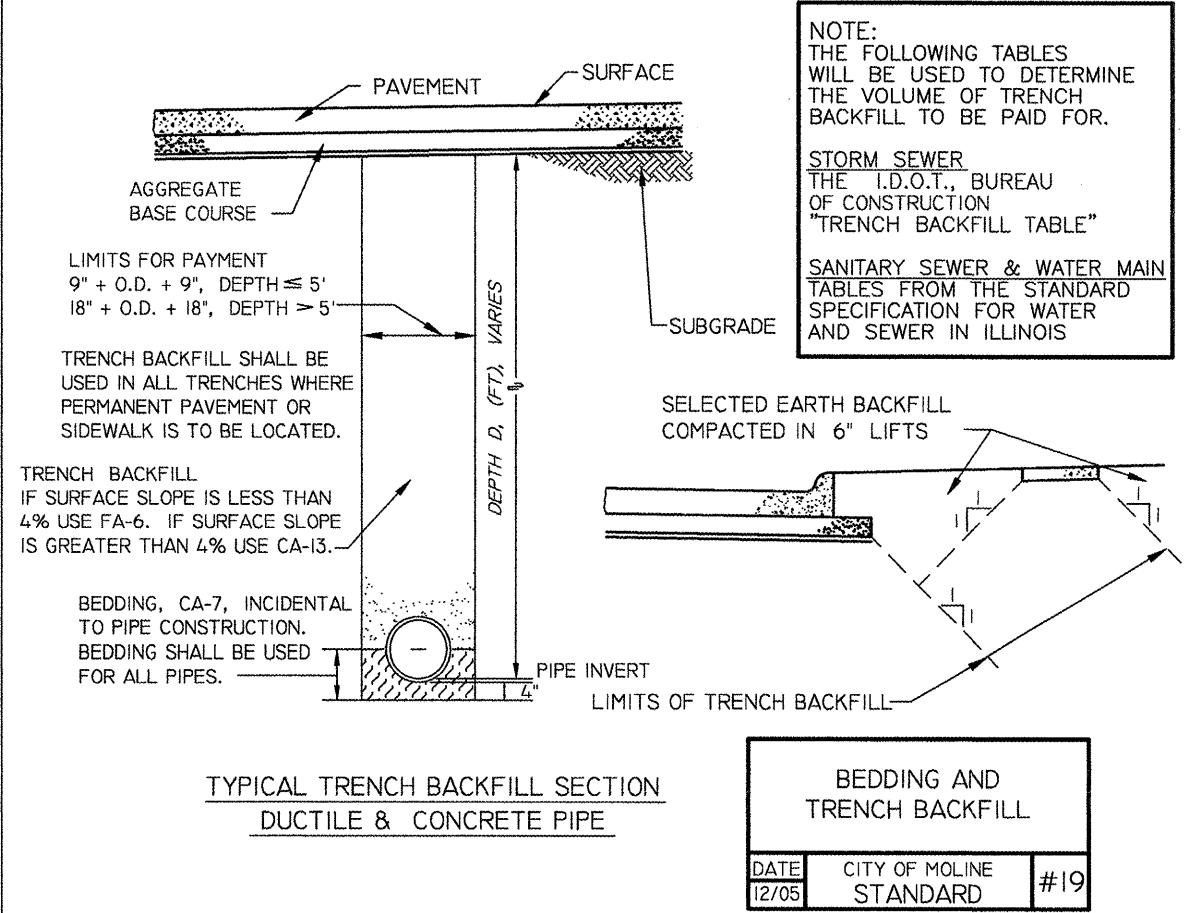
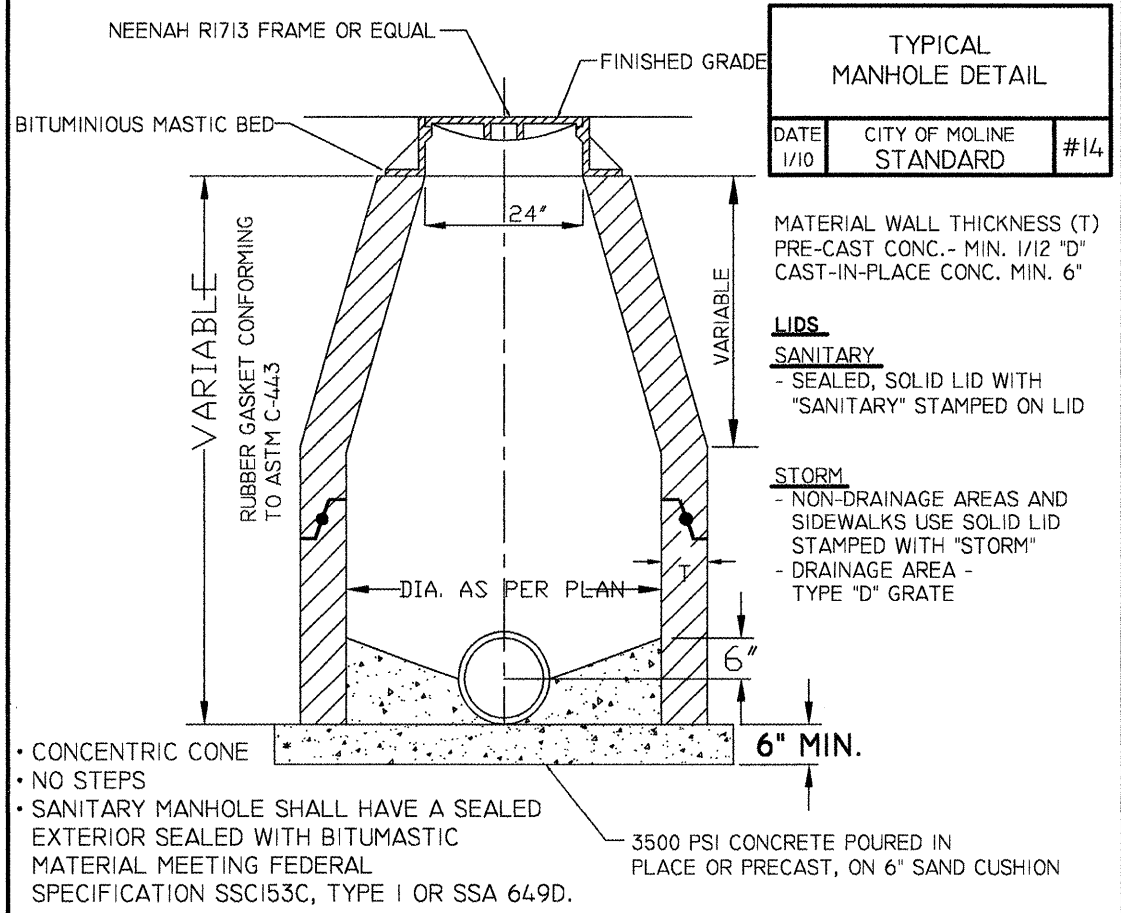
CITY OF MOLINE
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
3635 4TH AVENUE, MOLINE, IL 61265
(309) 524-2350
CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
34TH STREET, SOUTH OF RIVER DRIVE
DETAILS

| Date | Revision |
|------|----------|
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12/13/11 | Sheet | 32 |
| Scale | N.T.S. | of | 34 |
| Design Engineer | JC | Project | MFT 239 |

| | | | | |
|------------|----------------|-------------|--------------|-----------|
| F.A.U. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| MS1015 | 08-00239-00-RP | ROCK ISLAND | 34 | 33 |



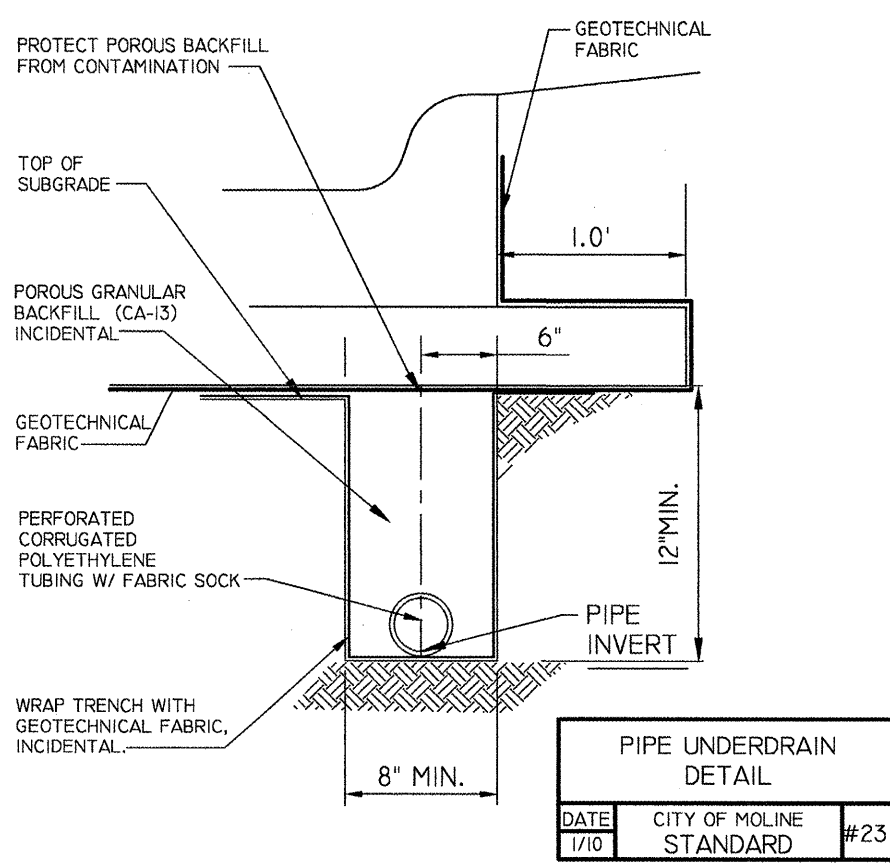
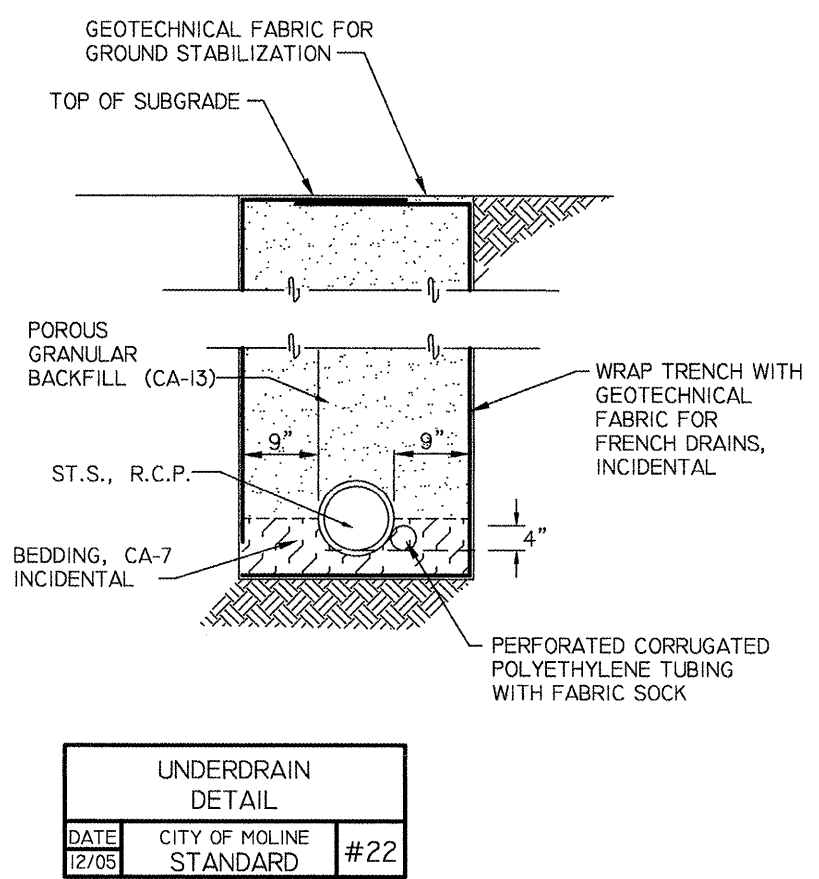
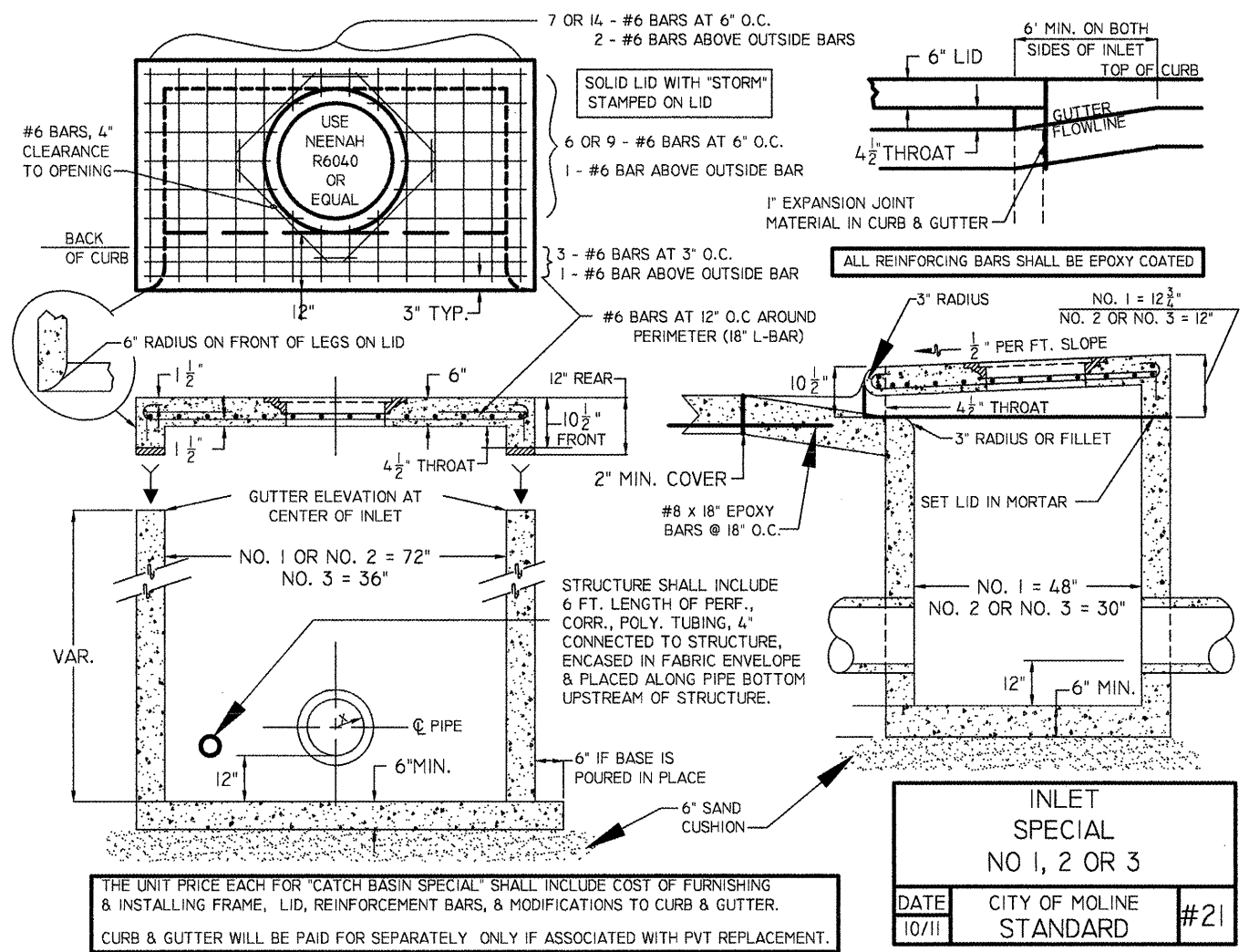
CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 DETAILS

| | |
|------|----------|
| Date | Revision |
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12/13/11 | Sheet | 33 |
| Scale | N.T.S. | of | 34 |
| Design Engineer | JC | Project | MFT 239 |

| | | | | |
|------------|----------------|-------------|--------------|-----------|
| F.A.U. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| MS1015 | 08-00239-00-RP | ROCK ISLAND | 34 | 34 |



CITY OF MOLINE
 DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION
 3635 4TH AVENUE, MOLINE, IL 61265
 (309) 524-2350
 CITY ENGINEER - SCOTT HINTON, P.E.

RIVERTECH BOULEVARD
 34TH STREET, SOUTH OF RIVER DRIVE
 DETAILS

| | |
|------|----------|
| Date | Revision |
| | |
| | |
| | |

| | | | |
|-----------------|----------|---------|---------|
| Date | 12/13/11 | Sheet | 34 |
| Scale | N.T.S. | of | 34 |
| Design Engineer | JC | Project | MFT 239 |