



wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG B-1

WEI Job No.: 790-40-01

Client **TranSystems Corporation**
Project **Ohio Street over the BNSF and Indian Creek**
Location **Aurora, Kane County, Illinois**

Datum: NAV88
Elevation: 705.07 ft
North: 1857877.72 ft
East: 995717.09 ft
Station: 109+27.22
Offset: 4.91 RT

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|----------------------|-------------|-----------------------|----------|----------------------|---------|----------------|---|------------|----------------------|---------------|-----------------------|----------|----------------------|
| | 704.3 | 9-inch thick ASPHALT --PAVEMENT-- | | | | | | | | 684.6 | Loose, brown SILTY LOAM --BURIED TOPSOIL-- | | | | | | |
| | | Loose to medium dense, brown, fine SAND --FILL-- | 1 | X | 3 6 7 | NP | 4 | | | 682.1 | Stiff, black and brown CLAY LOAM --FILL-- | 9 | X | 3 3 4 | NP | 16 | |
| | | | 2 | X | 3 4 5 | NP | 4 | | | 679.6 | Medium dense, brown SILT with gravel | 25 | X | 2 3 5 | 1.50 P | 22 | |
| | 699.6 | Soft, dark brown CLAY LOAM --FILL-- | 3 | X | 2 5 2 | 0.25 P | 19 | | | 677.1 | Medium stiff, brown SILTY CLAY | 30 | X | 3 7 15 | 0.98 B | 14 | |
| | 697.1 | Stiff to hard, brown SILTY CLAY LOAM --FILL-- --L _c = 33%, P _L = 16%-- --% Gravel = 4.3%-- --% Sand = 9.8%-- --% Silt = 59.1%-- --% Clay = 26.8%-- | 4 | X | 3 2 3 | 1.64 B | 21 | | | 673.3 | Very stiff, gray CLAY | 35 | X | 11 9 9 | 3.69 B | 12 | |
| | | | 5 | X | 3 2 3 | 1.72 B | 18 | | | 665.1 | | 40 | X | 7 12 12 | 3.50 P | 11 | |
| | | | 6 | X | 2 4 6 | 3.36 B | 18 | | | | | | | | | | |
| | | | 7 | X | 2 4 5 | 4.84 B | 17 | | | | | | | | | | |
| | | | 8 | X | 4 4 7 | 4.02 B | 18 | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|-----------------------|---|-----------------|---------------------------|----|----------|--|
| Begin Drilling | 08-31-2009 | Complete Drilling | 08-31-2009 | While Drilling | ▽ | 44.00 ft | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Time After Drilling | NA | | |
| Checked by | E. Datz | Depth to Water | ▽ | NA | | | |
| Drilling Method | 4.25-inch IDA HSA | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | |



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Datum: NAV88
Elevation: 705.07 ft
North: 1857877.72 ft
East: 995717.09 ft
Station: 109+27.22
Offset: 4.91 RT

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|----------------------------------|------------|----------------------|--------------|-----------------------|----------|----------------------|---------|----------------|---|------------|----------------------|----------------|-----------------------|----------|----------------------|
| | | Medium dense, brown SANDY GRAVEL | | | | | | | | 643.3 | Medium dense to very dense, gray, fine to medium SAND | | | | | | |
| | | | 15 | X | 3 4 6 | NP | 11 | | | 655.3 | Very stiff, gray CLAY | 65 | X | 3 4 13 | NP | 22 | |
| | | | 16 | X | 3 7 11 | NP | 13 | | | 650.3 | | 70 | X | 5 3 9 | NP | 13 | |
| | | | 17 | X | 3 2 3 | 2.54 B | 18 | | | 648.3 | Medium dense, gray SILT | 75 | X | 16 25 23 | NP | 18 | |
| | | | 18 | X | 8 6 5 | NP | 10 | | | 628.5 | Boring terminated at 78.58 ft | 80 | | | 50/1" | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|-----------------------|---|-----------------|---------------------------|----|----------|--|
| Begin Drilling | 08-31-2009 | Complete Drilling | 08-31-2009 | While Drilling | ▽ | 44.00 ft | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Time After Drilling | NA | | |
| Checked by | E. Datz | Depth to Water | ▽ | NA | | | |
| Drilling Method | 4.25-inch IDA HSA | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | |

5/12/2014 4:49:55 PM - G:\CHN\030\Bridg\CA00\Sheets\0459942-63855-030-BL001.dgn



| | | |
|---------------------------------|----------------|-----------|
| USER NAME = rlschultz | DESIGNED - JRM | REVISED - |
| PLOT SCALE = 1:8.0000 '1' / in. | CHECKED - MDS | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - SFW | REVISED - |
| | CHECKED - DL | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 045-9942
SHEET NO. 30 OF 34 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 4087 | 08-00278-00-BR | KANE | 136 | 101 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
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BORING LOG B-2
 WEI Job No.: 790-40-01

Datum: NAV88
 Elevation: 673.34 ft
 North: 1858084.48 ft
 East: 995749.14 ft
 Station: 111+33.45
 Offset: 39.11 RT

Client: **TranSystems Corporation**
 Project: **Ohio Street over the BNSF and Indian Creek**
 Location: **Aurora, Kane County, Illinois**

Page 1 of 2

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|------------|-----------------------|-----------|----------------------|---------|----------------|--|------------|------------|-----------------------|----------|----------------------|
| | | Stiff to very stiff, brown SILTY CLAY --FILL-- | | 1 | 2 6 6 | 2.25 P | 15 | | 652.8 | Medium dense, gray SILTY LOAM with some to little gravel | | 9 | 6 6 9 | NP | 9 |
| | 670.3 | Loose, brown SILTY LOAM --FILL-- --% Gravel = 3.9%-- --% Sand = 31.3%-- --% Silt = 53.1%-- --% Clay = 11.7%-- | | 2 | 2 3 3 | NP | 21 | | | | 25 | 10 | 6 7 7 | NP | 9 |
| | 666.8 | Medium dense, brown GRAVELLY SAND --FILL-- | | 3 | 3 6 10 | NP | 6 | | | | | 11 | 11 12 11 | NP | 8 |
| | 664.3 | Loose, brown and gray, fine to medium SAND with little gravel | | 4 | 4 4 5 | NP | 12 | | 645.3 | Medium dense, brown GRAVELLY SAND | | 12 | 8 9 10 | NP | 11 |
| | | | | 5 | 2 3 4 | NP | 18 | | 641.6 | Loose to medium dense, gray, fine SANDY LOAM | | 13 | 3 11 16 | NP | 13 |
| | | | | 6 | 2 2 2 | NP | 19 | | | | 15 | 14 | 1 2 2 | NP | 18 |
| | | | | 7 | 3 2 3 | NP | 15 | | | | | | | | |
| | | | | 8 | 2 2 3 | NP | 10 | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|---------------------------|-------------------|------------|---------------------------|---------|----------|--|
| Begin Drilling | 11-02-2009 | Complete Drilling | 11-02-2009 | While Drilling | ▽ | 11.00 ft | |
| Drilling Contractor | Groff Testing Corporation | Drill Rig | CME | At Completion of Drilling | ▽ | WASHED | |
| Driller | T&K | Logger | B. Wilson | Checked by | E. Datz | NA | |
| Drilling Method | 3.25-inch | | | Time After Drilling | | NA | |
| | | | | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |

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 WEI Job No.: 790-40-01

Datum: NAV88
 Elevation: 673.34 ft
 North: 1858084.48 ft
 East: 995749.14 ft
 Station: 111+33.45
 Offset: 39.11 RT

Client: **TranSystems Corporation**
 Project: **Ohio Street over the BNSF and Indian Creek**
 Location: **Aurora, Kane County, Illinois**

Page 1 of 2

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|------------|-----------------------|-----------|----------------------|---------|----------------|--|------------|------------|-----------------------|----------|----------------------|
| | | Stiff to very stiff, brown SILTY CLAY --FILL-- | | 1 | 2 6 6 | 2.25 P | 15 | | 652.8 | Medium dense, gray SILTY LOAM with some to little gravel | | 9 | 6 6 9 | NP | 9 |
| | 670.3 | Loose, brown SILTY LOAM --FILL-- --% Gravel = 3.9%-- --% Sand = 31.3%-- --% Silt = 53.1%-- --% Clay = 11.7%-- | | 2 | 2 3 3 | NP | 21 | | | | 25 | 10 | 6 7 7 | NP | 9 |
| | 666.8 | Medium dense, brown GRAVELLY SAND --FILL-- | | 3 | 3 6 10 | NP | 6 | | | | | 11 | 11 12 11 | NP | 8 |
| | 664.3 | Loose, brown and gray, fine to medium SAND with little gravel | | 4 | 4 4 5 | NP | 12 | | 645.3 | Medium dense, brown GRAVELLY SAND | | 12 | 8 9 10 | NP | 11 |
| | | | | 5 | 2 3 4 | NP | 18 | | 641.6 | Loose to medium dense, gray, fine SANDY LOAM | | 13 | 3 11 16 | NP | 13 |
| | | | | 6 | 2 2 2 | NP | 19 | | | | 15 | 14 | 1 2 2 | NP | 18 |
| | | | | 7 | 3 2 3 | NP | 15 | | | | | | | | |
| | | | | 8 | 2 2 3 | NP | 10 | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|---------------------------|-------------------|------------|---------------------------|---------|----------|--|
| Begin Drilling | 11-02-2009 | Complete Drilling | 11-02-2009 | While Drilling | ▽ | 11.00 ft | |
| Drilling Contractor | Groff Testing Corporation | Drill Rig | CME | At Completion of Drilling | ▽ | WASHED | |
| Driller | T&K | Logger | B. Wilson | Checked by | E. Datz | NA | |
| Drilling Method | 3.25-inch | | | Time After Drilling | | NA | |
| | | | | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |

4/50/20 PM - C:\CHINA\030\Dr\Edge\CADD\Sheets\0459942-63859-031-BL-DC2.dgn



| | | |
|-------------------------|----------------|-----------|
| USER NAME = rischultz | DESIGNED = JRM | REVISED = |
| CHECKED = MDS | REVISED = | |
| PLOT SCALE = 1/8"=1'-0" | DRAWN = SFW | REVISED = |
| PLOT DATE = 5/12/2014 | CHECKED = DL | REVISED = |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 STRUCTURE NO. 045-9942**

| | | | | |
|--------------------|----------------|--------|--------------|-----------|
| F.A.P. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 102 |
| CONTRACT NO. 63859 | | | | |

SHEET NO. 31 OF 34 SHEETS

[ILLINOIS] FED. AID PROJECT

Wang Engineering
 wangeng@wangeng.com
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 Lombard, IL 60148
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BORING LOG B-4
 WEI Job No.: 790-40-01

Datum: NAV88
 Elevation: 680.91 ft
 North: 1857955.12 ft
 East: 995740.44 ft
 Station: 110+04.24
 Offset: 29.07 RT

Client: **TranSystems Corporation**
 Project: **Ohio Street over the BNSF and Indian Creek**
 Location: **Aurora, Kane County, Illinois**

Page 1 of 2

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | |
|---------|----------------|--|------------|----------------------|------------|-----------------------|----------|----------------------|---------|----------------|---|------------|----------------------|------------|-----------------------|----------|----------------------|---|
| | 678.9 | Loose, brown, gravelly LOAM --FILL-- | | | 1 | 5 2 2 | 1.25 | 26 | | 655.4 | | | | | 9 | 7 5 | NP | 9 |
| | | Stiff, brown SILTY CLAY to SILTY CLAY LOAM --FILL-- | | | 2 | 2 3 4 | 1.50 | 22 | | | | | | 10 | 4 5 5 | NP | 12 | |
| | 675.4 | Loose, brown LOAM with little gravel --FILL-- | | | 3 | 1 1 3 | NP | 21 | | | Loose to medium dense, gray SILTY LOAM with some gravel | | | 11 | 1 2 5 | NP | 12 | |
| | 671.4 | Stiff, brown CLAY LOAM with some gravel | | | 4 | 1 1 3 | 1.25 | 31 | | | | | | 12 | 3 12 15 | NP | 10 | |
| | 670.4 | Very stiff to hard, brown and gray CLAY with little gravel --FILL-- | | | 5 | 3 4 6 | 2.79 | 15 | | | | | | 13 | 9 9 12 | NP | 9 | |
| | 665.4 | Loose to medium dense, brown and gray, fine to coarse SAND with some gravel. | | | 7 | 7 5 4 | NP | 7 | | 643.9 | Loose to dense, gray, fine to coarse SAND and SANDY LOAM with some gravel | | | 14 | 11 14 20 | NP | 16 | |
| | | | | | 8 | 2 2 4 | NP | 23 | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|---------------------------|-------------------|------------|---------------------------|---|---------------------|----|
| Begin Drilling | 11-03-2009 | Complete Drilling | 11-03-2009 | While Drilling | ▽ | 18.50 ft | |
| Drilling Contractor | Groff Testing Corporation | Drill Rig | CME | At Completion of Drilling | ▽ | WASHED | |
| Driller | T&K | Logger | B. Wilson | Checked by | R. Gorlagunta | Time After Drilling | NA |
| Drilling Method | 3.25-inch | Depth to Water | ▽ | NA | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | |

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BORING LOG B-4
 WEI Job No.: 790-40-01

Datum: NAV88
 Elevation: 680.91 ft
 North: 1857955.12 ft
 East: 995740.44 ft
 Station: 110+04.24
 Offset: 29.07 RT

Client: **TranSystems Corporation**
 Project: **Ohio Street over the BNSF and Indian Creek**
 Location: **Aurora, Kane County, Illinois**

Page 2 of 2

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|----------------------|------------|-----------------------|----------|----------------------|---------|----------------|-------------------------------|------------|----------------------|------------|-----------------------|----------|----------------------|
| | 615.9 | | | | 18 | | | | | 615.9 | Boring terminated at 65.00 ft | | | | | | |
| | | | | | 15 | 2 3 6 | NP | 13 | | | | | | 16 | 14 18 22 | NP | 7 |
| | 627.4 | Weathered dolostone bedrock --AUGER REFUSAL @ 55.0'-- | | | 17 | | 60/2" | | | | | | | 17 | | NP | 9 |
| | 625.9 | Strong, fair quality, light gray DOLOSTONE with SHALE interbeds RUN#1 55.0' to 65.0' RECOVERY=100% RQD=58% | | | | | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|---------------------------|-------------------|------------|---------------------------|---|---------------------|----|
| Begin Drilling | 11-03-2009 | Complete Drilling | 11-03-2009 | While Drilling | ▽ | 18.50 ft | |
| Drilling Contractor | Groff Testing Corporation | Drill Rig | CME | At Completion of Drilling | ▽ | WASHED | |
| Driller | T&K | Logger | B. Wilson | Checked by | R. Gorlagunta | Time After Drilling | NA |
| Drilling Method | 3.25-inch | Depth to Water | ▽ | NA | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | |

4:50:04 PM - G:\CHILL\0310\Bridges\CADD\Sheets\04599\02-63859-033-BL-004.dgn



| | | | | | |
|------------|---------------------|----------|-------|---------|---|
| USER NAME | * rlschultz | DESIGNED | - JRM | REVISED | - |
| PLOT SCALE | = 1:8,000 1" = 100' | CHECKED | - MDS | REVISED | - |
| PLOT DATE | = 5/12/2014 | DRAWN | - SFW | REVISED | - |
| | | CHECKED | - DL | REVISED | - |

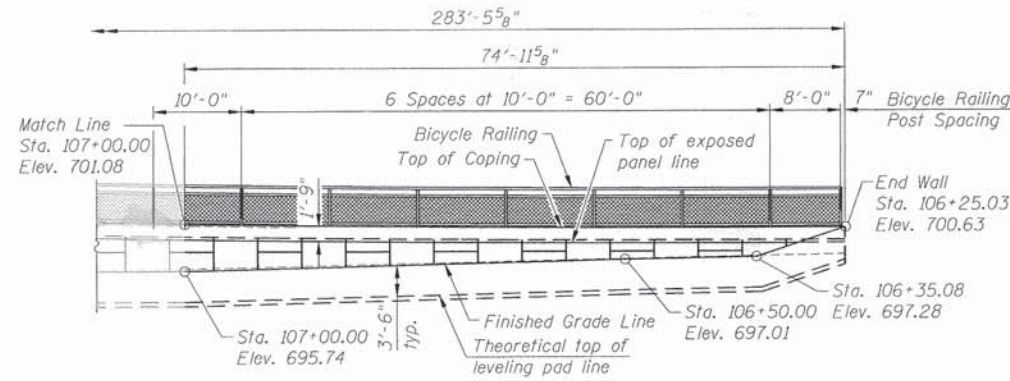
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
 STRUCTURE NO. 045-9942**

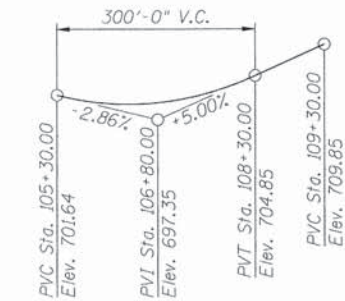
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|--------------------|----------------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 104 |
| CONTRACT NO. 63859 | | | ILLINOIS FED. AID PROJECT | |

SHEET NO. 33 OF 34 SHEETS

Bench Mark: 5/8" rebar with yellow cap west of Ohio Street bridge El. 673.30



WEST ELEVATION
(Looking at front face of Wall)



PROFILE GRADE
Along Ohio Street

DESIGN SPECIFICATIONS

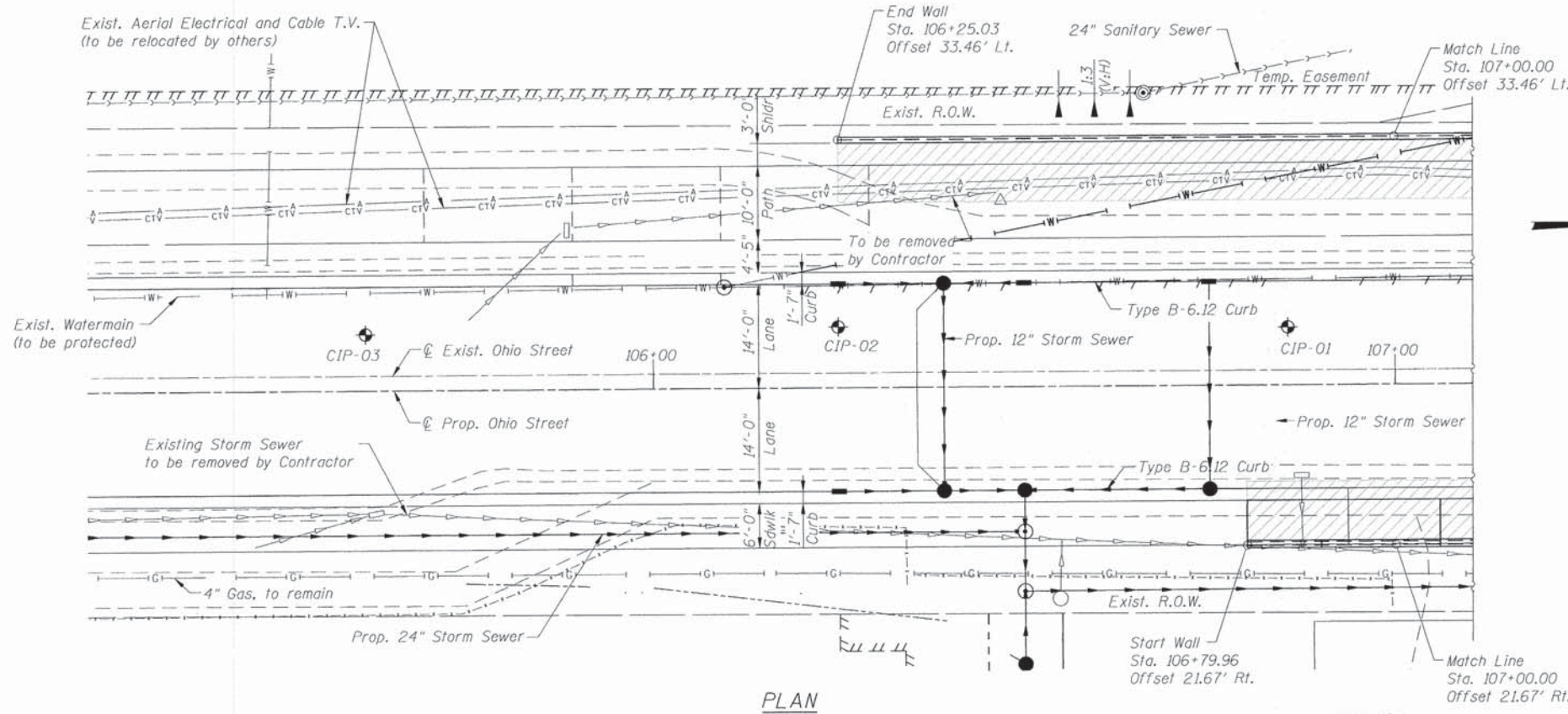
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims Revisions

DESIGN STRESSES

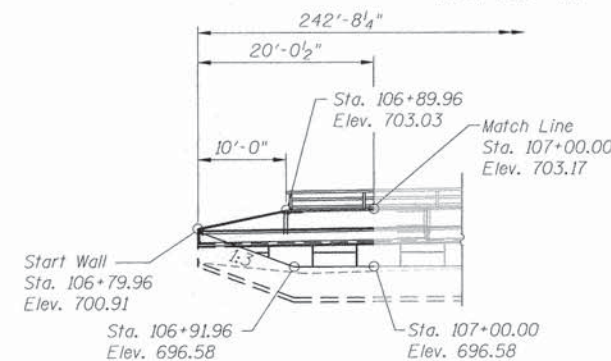
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
PRECAST
 $f'_c = 4,500$ psi

LEGEND:

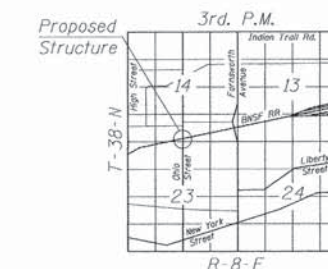
- Approximate Limits of Reinforced Soil Mass
- Soil Boring



PLAN



EAST ELEVATION
(Looking at front face of Wall)



LOCATION SKETCH



Matthew D. Santeford 05/12/2014
 MATTHEW D. SANTEFORD, P.E., S.E.
 NO. 081-007244
 EXP. DATE 11/30/2014

"I certify that to the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO LRFD Bridge Design Specifications'."

Note:
Stations and offsets are along the front face of the MSE wall.

5/12/2014 4:39:32 PM - GA:CH10:30:BR:10ge\CADD\Sheets\A\0459942-63859-035-SWALL.dgn



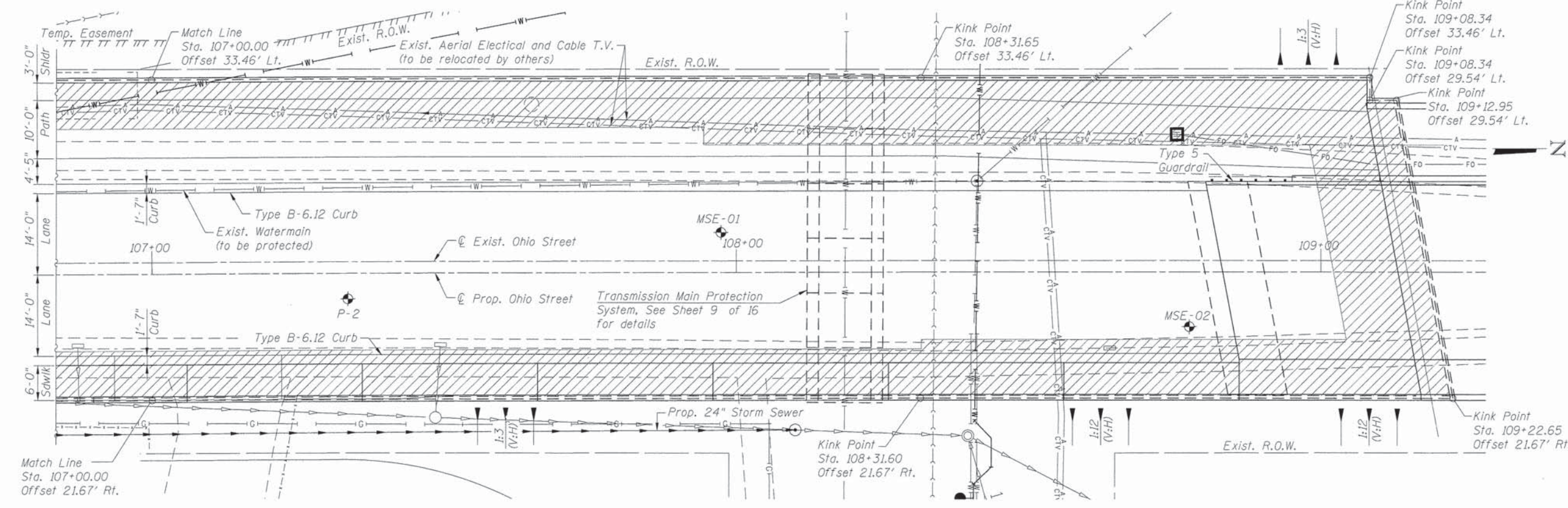
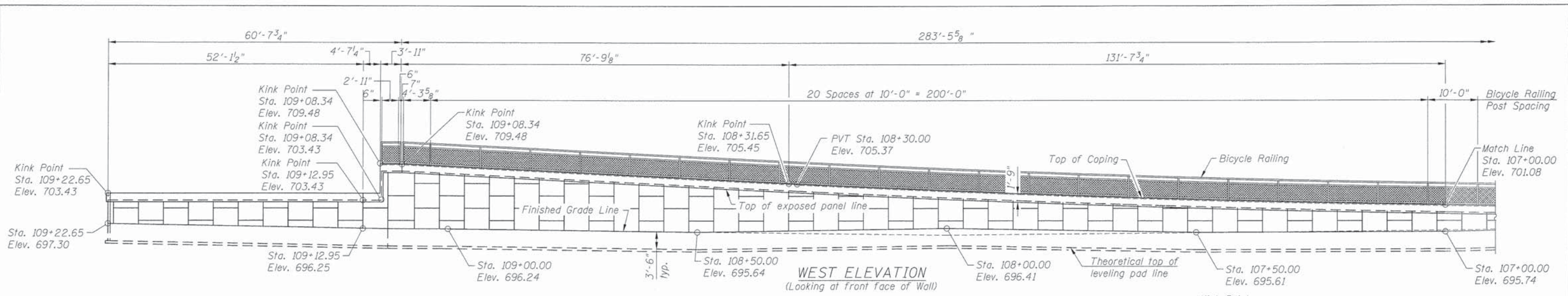
| | | |
|-------------------------------------|-------------------|-----------|
| USER NAME = jmschow | DESIGNED = WJC | REVISED = |
| PLDT SCALE = 10:0.0000 1/4" = 1'-0" | CHECKED = JRM/KAH | REVISED = |
| PLDT DATE = 5/12/2014 | DRAWN = WJC | REVISED = |
| | CHECKED = MDS | REVISED = |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
SOUTH RETAINING WALLS

SHEET NO. 1 OF 16 SHEETS

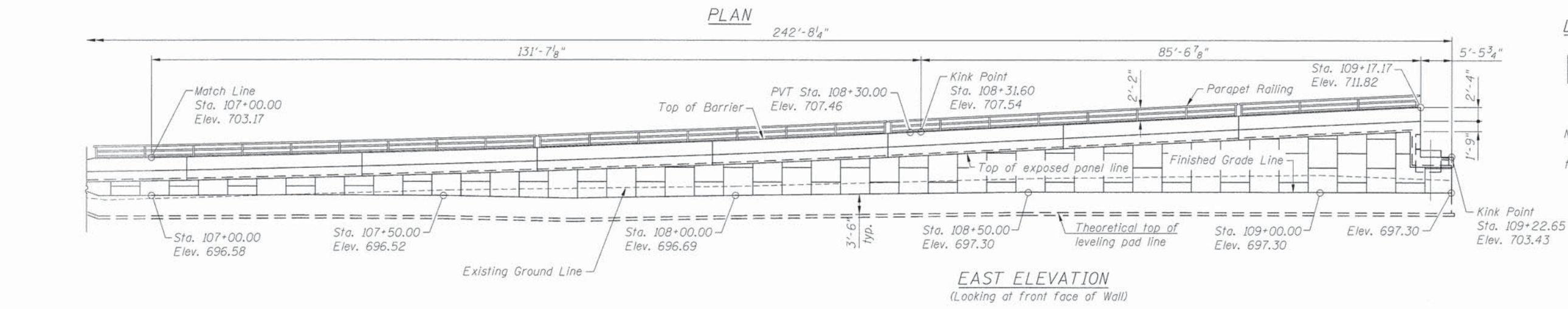
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|--------------------|----------------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 106 |
| CONTRACT NO. 63859 | | | ILLINOIS FED. AID PROJECT | |



LEGEND:

Approximate Limits of Reinforced Soil Mass

Note:
Stations and offsets are along the front face of the MSE wall.



5/12/2014 5:35:46 PM - G:\CHINA\030\Bridges\CADD\Sheets\0459942-63859-036-SWALL2.dgn



| | | |
|---------------------------|----------------|-----------|
| USER NAME = jrmckow | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 1/8" = 1'-0" | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

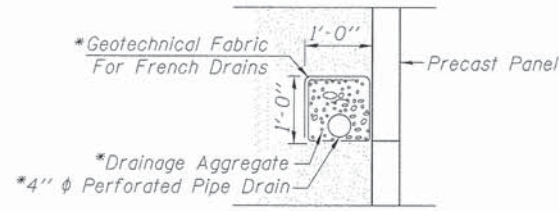
**GENERAL PLAN AND ELEVATION
SOUTH RETAINING WALLS**

SHEET NO. 2 OF 16 SHEETS

| | | | | |
|---------------------------|------------------------|-------------|------------------|---------------|
| F.A.P. RTE. 4087 | SECTION 08-00278-00-BR | COUNTY KANE | TOTAL SHEETS 136 | SHEET NO. 107 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



PIPE UNDERDRAIN DETAIL

*Included in the cost of Pipe Underdrains for Structures 4".

Note:

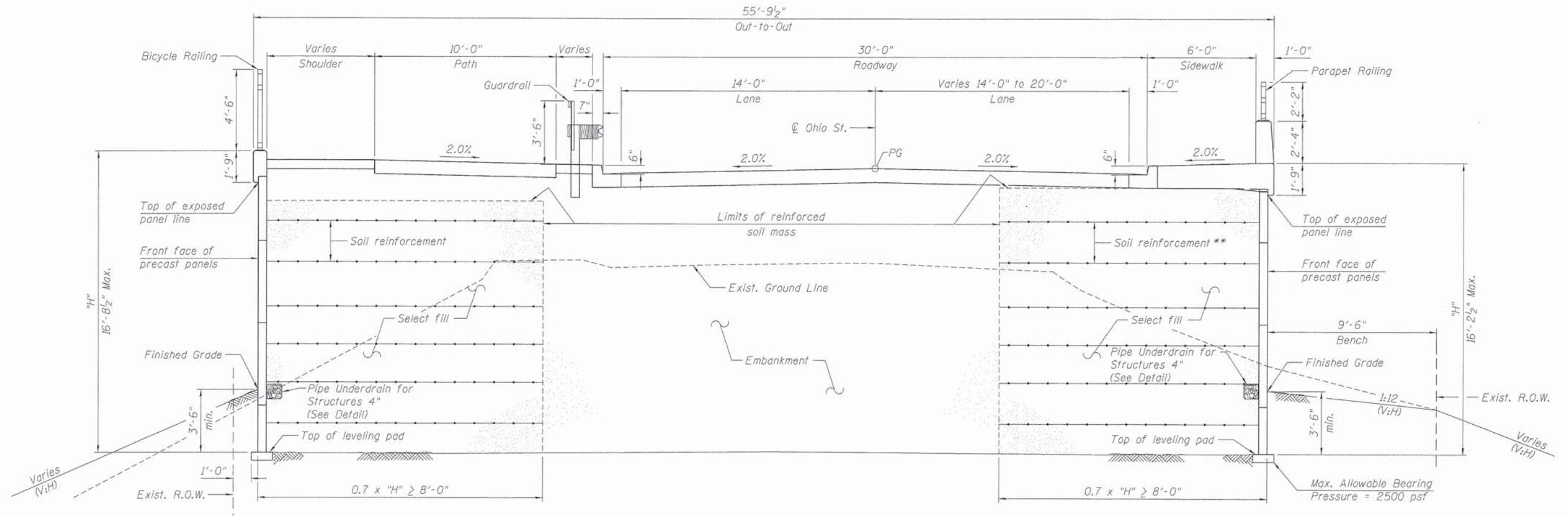
All drainage system components shall extend to 2'-0" from the end of each MSE wall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

INDEX OF SHEETS

- 1 - 2 General Plan and Elevation - South Retaining Walls
- 3 General Plan and Elevation - North Retaining Walls
- 4 General Data
- 5 Moment Slab Plan and Elevation - Southeast Retaining Wall 1
- 6 Moment Slab Plan and Elevation - Southeast Retaining Wall 2
- 7 Moment Slab Plan and Elevation - Northeast Retaining Wall
- 8 Retaining Wall
- 9 Transmission Main Protection System
- 10 Transmission Main Protection System Details
- 11 Bicycle Railing Details
- 12-16 Boring Logs

TOTAL BILL OF MATERIAL

| Item | Unit | Total |
|---|---------|--------|
| Earth Excavation | Cu. Yd. | 570 |
| Structure Excavation | Cu. Yd. | 2473 |
| Concrete Structures | Cu. Yd. | 16.8 |
| Concrete Superstructure | Cu. Yd. | 129.8 |
| Form Liner Textured Surface | Sq. Ft. | 6476 |
| Protective Coat | Sq. Yd. | 308 |
| Reinforcement Bars, Epoxy Coated | Pound | 20,720 |
| Bicycle Railing | Foot | 430 |
| Parapet Railing | Foot | 303 |
| Micro-Piles | Each | 20 |
| Micropile Proof Load Test | Each | 1 |
| Furnishing and Erecting Precast Concrete Panels | Each | 6 |
| Construction Vibration Monitoring | L Sum | 0.5 |
| Mechanically Stabilized Earth Retaining Wall | Sq. Ft. | 8,890 |
| Pipe Underdrains for Structures 4" | Foot | 937 |



CROSS SECTION THROUGH MSE WALLS

(Looking North)

** The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft of wall.

5/2/2014 5:35:47 PM - G:\CH\0300\Bridges\CADD\Sheets\0455942-63859-038-WD01A.dgn



| | | |
|-------------------------|----------------|-----------|
| USER NAME = jrmickaw | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 3/8"=1'-0" | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

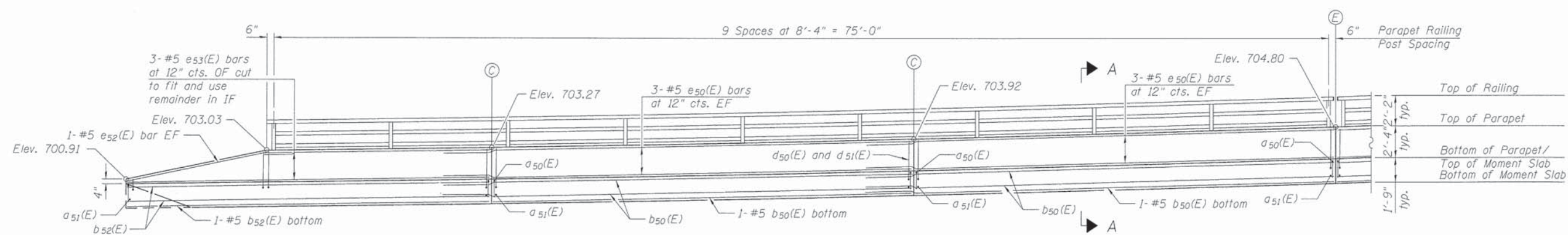
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
RETAINING WALLS**

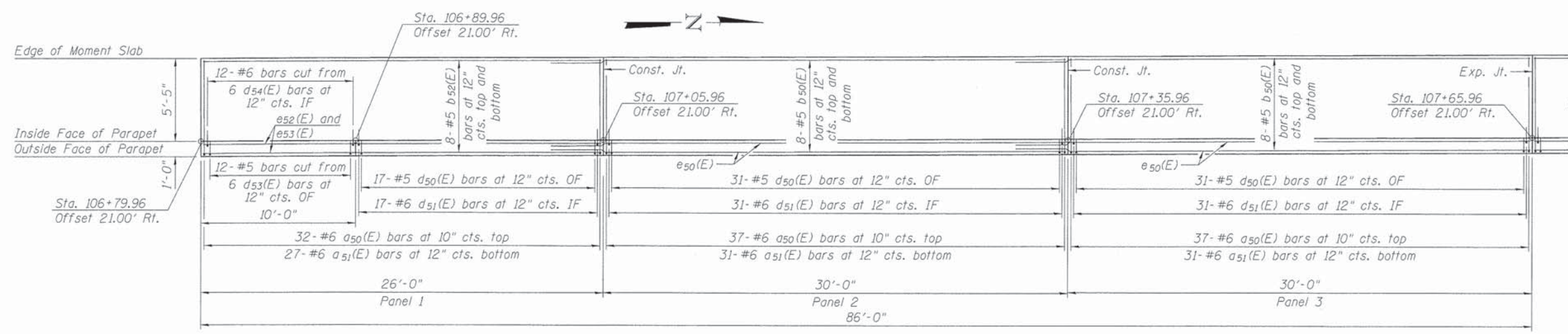
SHEET NO. 4 OF 16 SHEETS

| | | | | |
|--------------------|------------------------|-------------|------------------|---------------|
| F.A.P. RTE. 4087 | SECTION 08-00278-00-BR | COUNTY KANE | TOTAL SHEETS 136 | SHEET NO. 109 |
| CONTRACT NO. 63859 | | | | |

ILLINOIS FED. AID PROJECT



ELEVATION



PLAN

Note:
 For Section A-A, see sheet 6 of 16.
 For Bar Diagrams and Bill of Material, see sheet 8 of 16.

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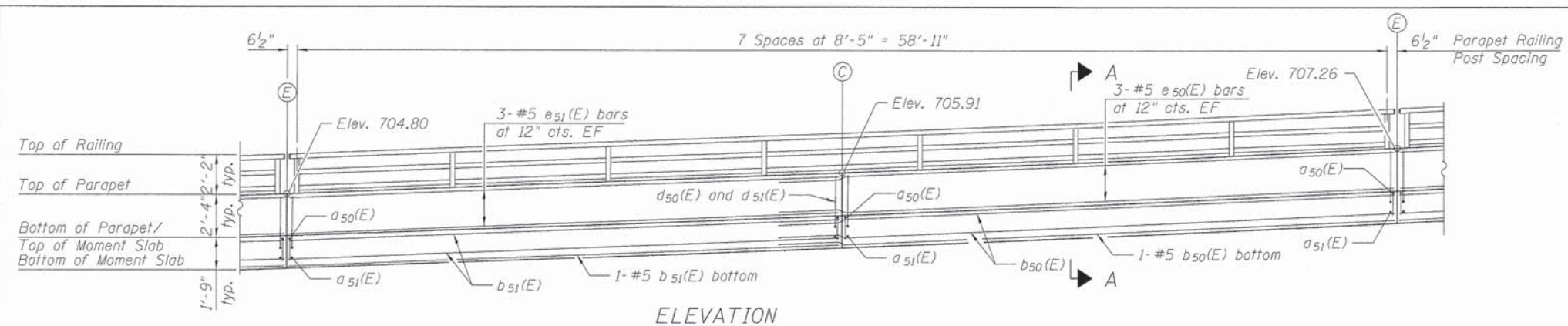
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|---------------------------------|----------------|-----------|
| USER NAME = jrmckow | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 4x8.0000 '1' / 16" | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

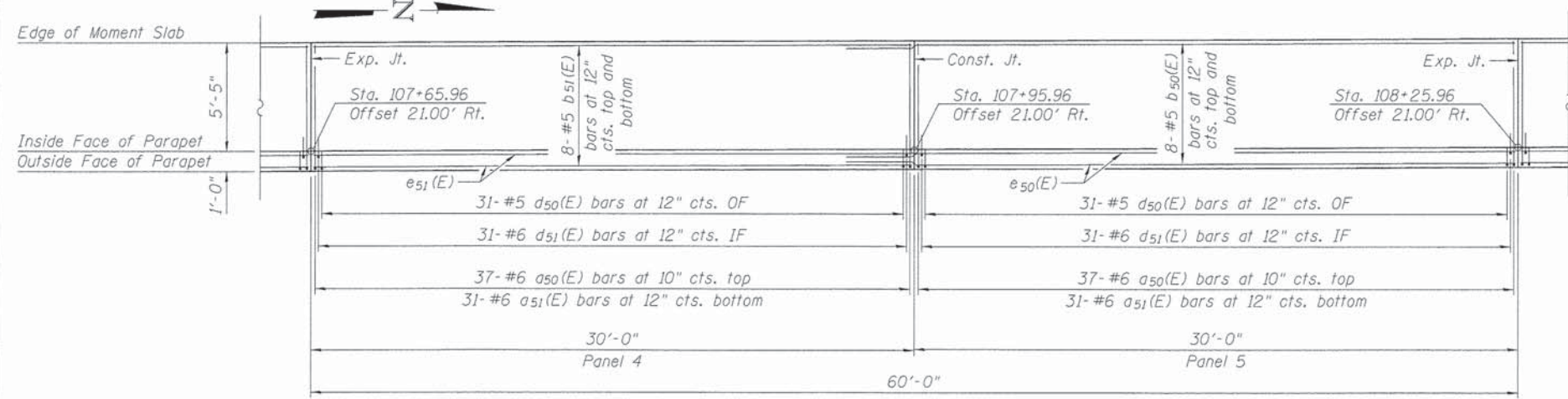
**MOMENT SLAB PLAN AND ELEVATION
 SOUTHEAST RETAINING WALL 1**

SHEET NO. 5 OF 16 SHEETS

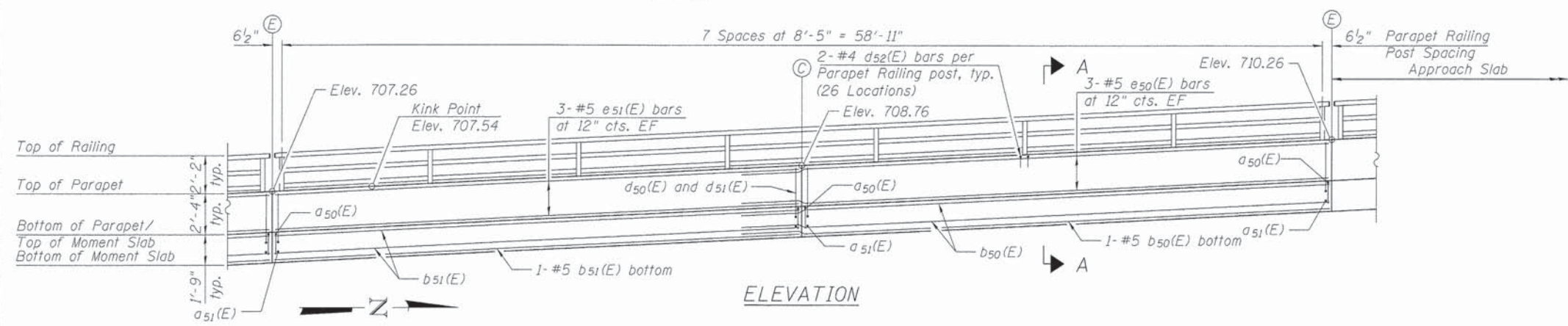
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|--------------------|
| 4087 | 08-00278-00-BR | KANE | 136 | 109A |
| | | | | CONTRACT NO. 63859 |
| ILLINOIS FED. AID PROJECT | | | | |



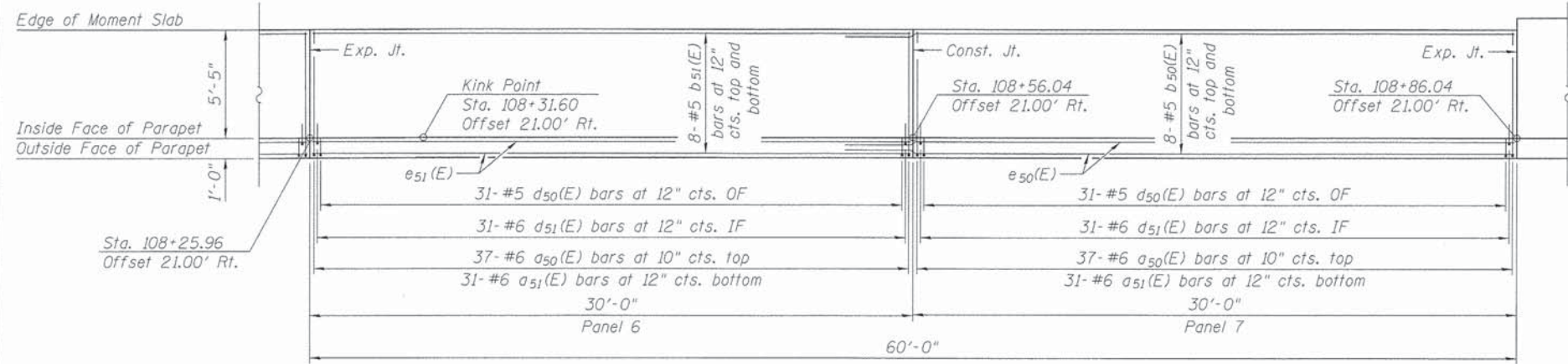
ELEVATION



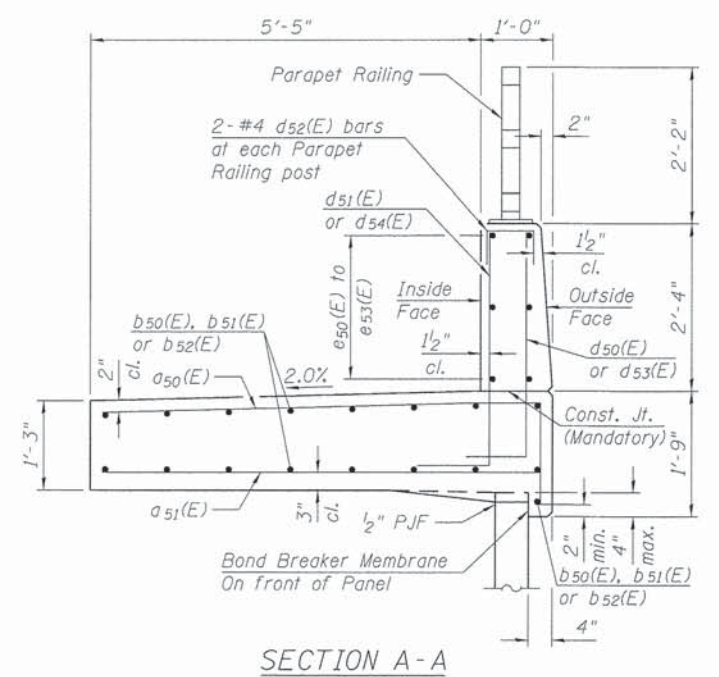
PLAN



ELEVATION



PLAN



SECTION A-A

Note:
For Bar Diagrams and Bill of Material,
see sheet 8 of 16.

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| | | |
|----------------------------------|----------------|-----------|
| USER NAME = jrmckow | DESIGNED - WJC | REVISED - |
| PLLOT SCALE = 4:0.0000 1' = 1/4" | CHECKED - JRM | REVISED - |
| PLLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

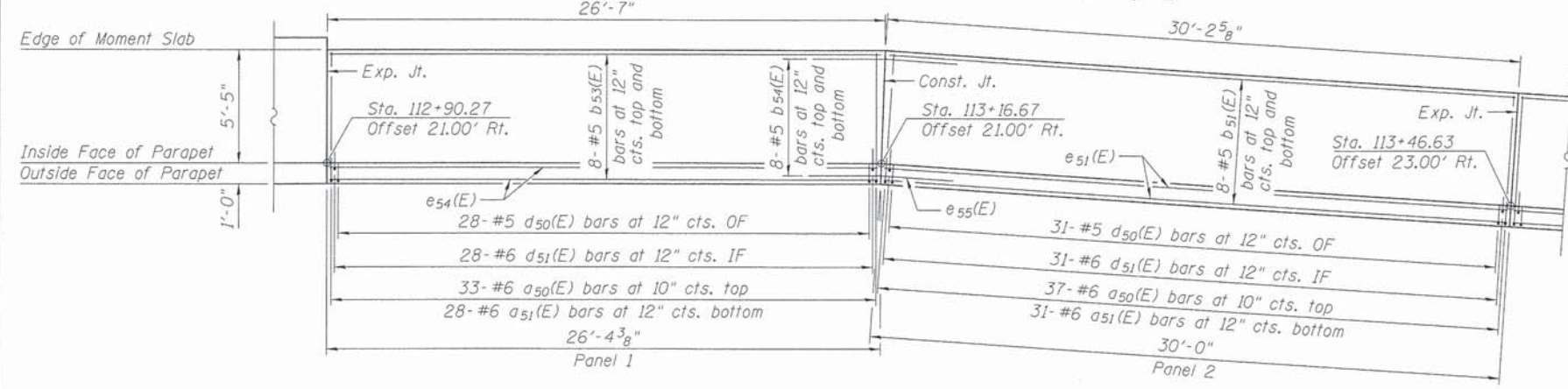
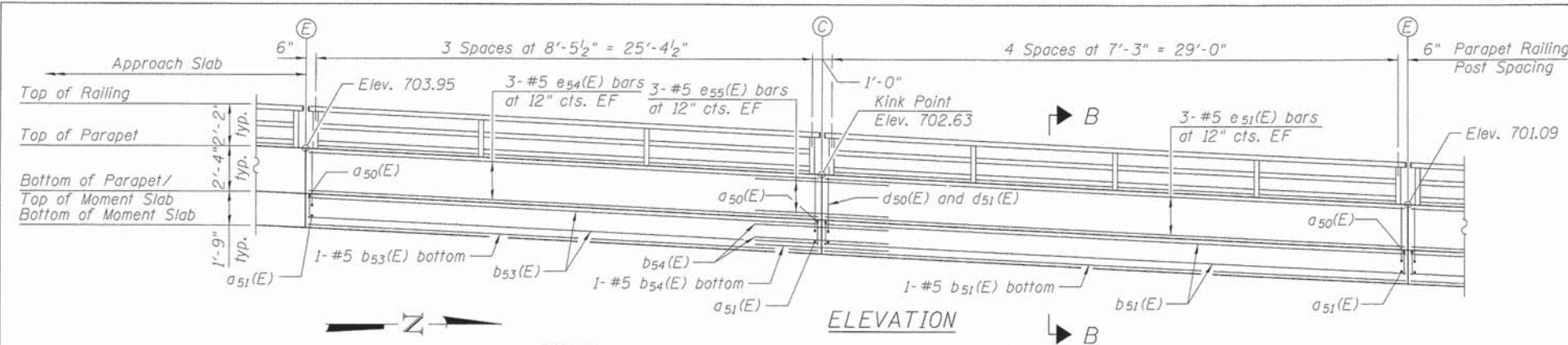
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOMENT SLAB PLAN AND ELEVATION
SOUTHEAST RETAINING WALL 2

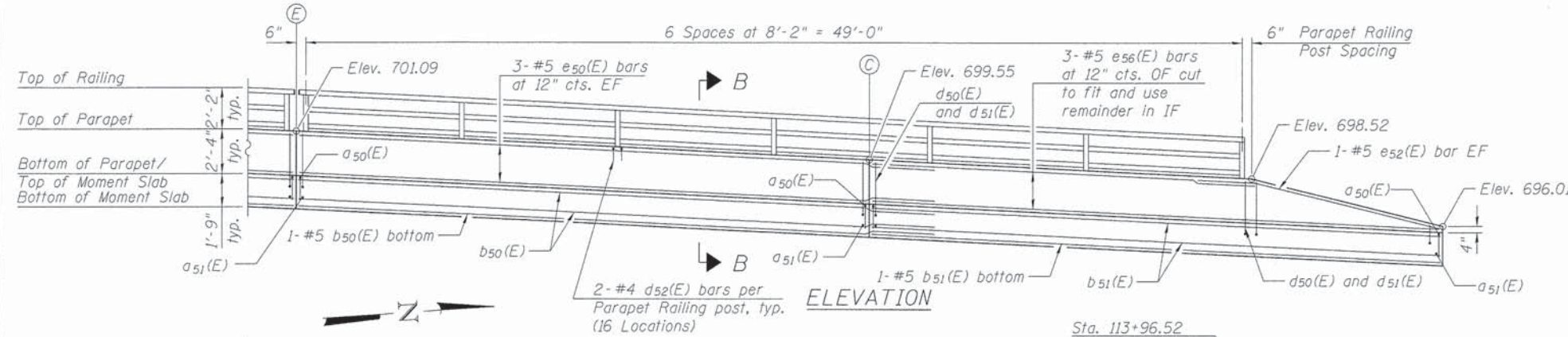
SHEET NO. 6 OF 16 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|--------|--------------------|-----------|
| 4087 | 08-00278-00-BR | KANE | 136 | 110 |
| | | | CONTRACT NO. 63859 | |

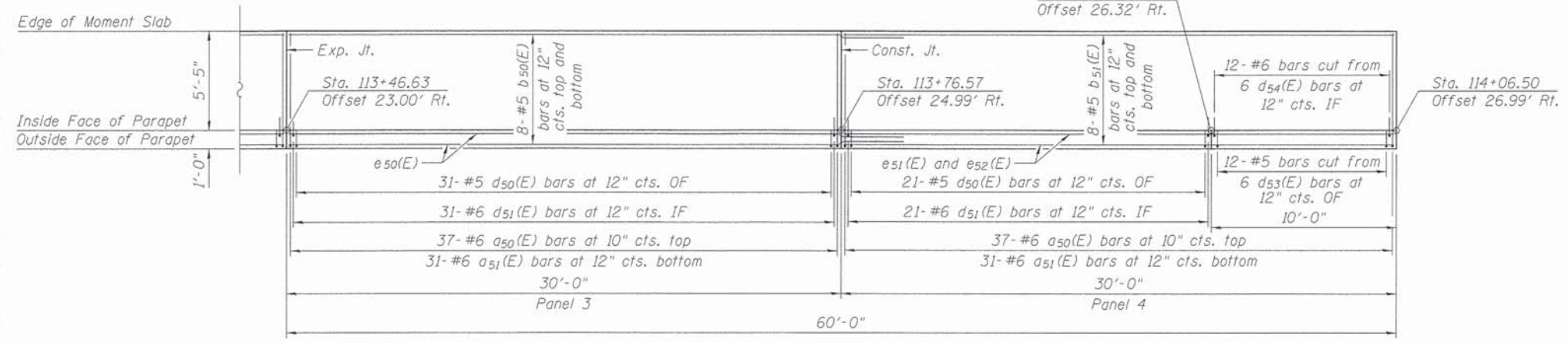
ILLINOIS FED. AID PROJECT



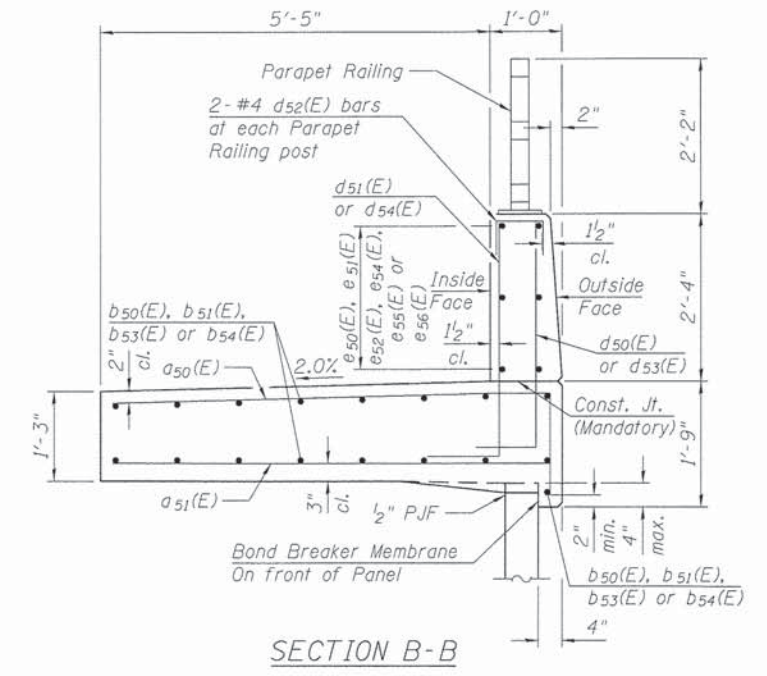
PLAN



ELEVATION



PLAN



SECTION B-B

Note:
For Bar Diagrams and Bill of Material,
see sheet 8 of 16.

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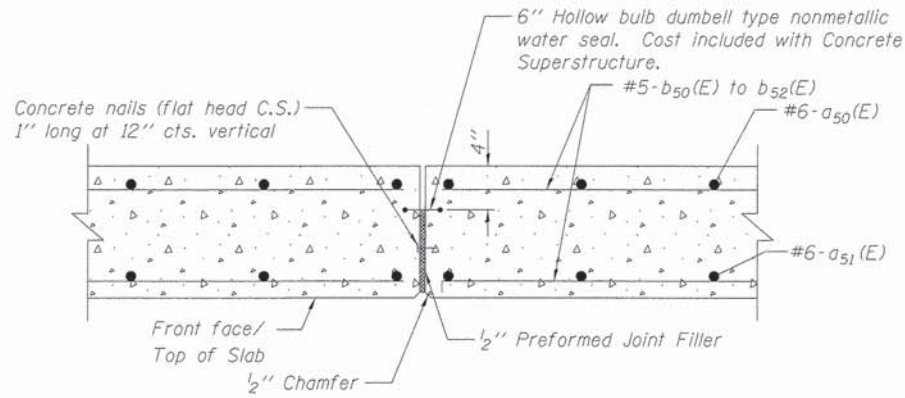
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|----------------------------------|----------------|-----------|
| USER NAME = jrmskow | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 4:0.0000 '1' = 1/4" | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - KAH | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

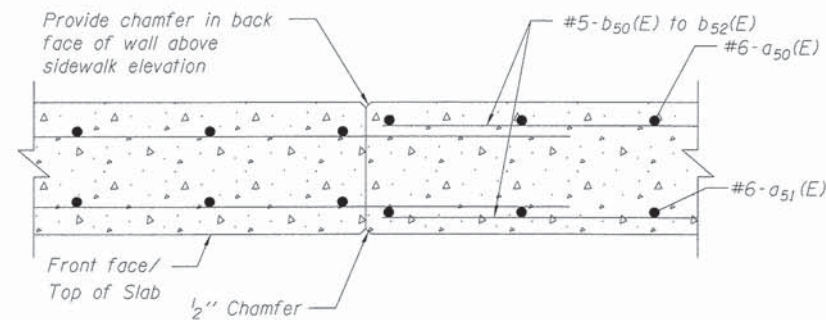
MOMENT SLAB PLAN AND ELEVATION
NORTHEAST RETAINING WALL

SHEET NO. 7 OF 16 SHEETS

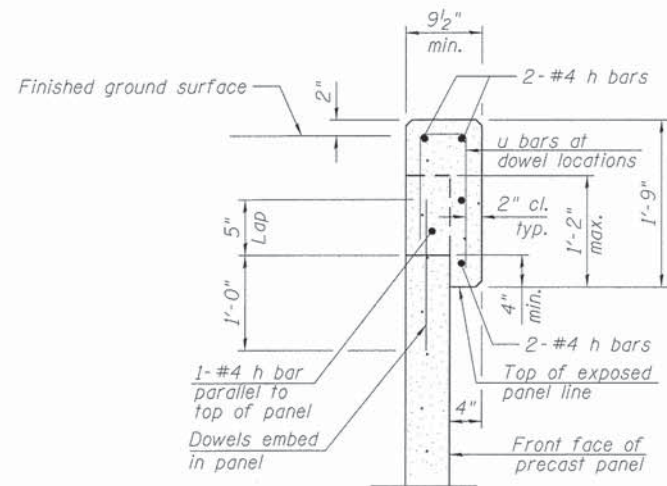
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------------|-----------|
| 4087 | 08-00278-00-BR | KANE | 136 | 111 |
| | | | CONTRACT NO. 63859 | |
| ILLINOIS FED. AID PROJECT | | | | |



MOMENT SLAB AND PARAPET EXPANSION JOINT DETAIL

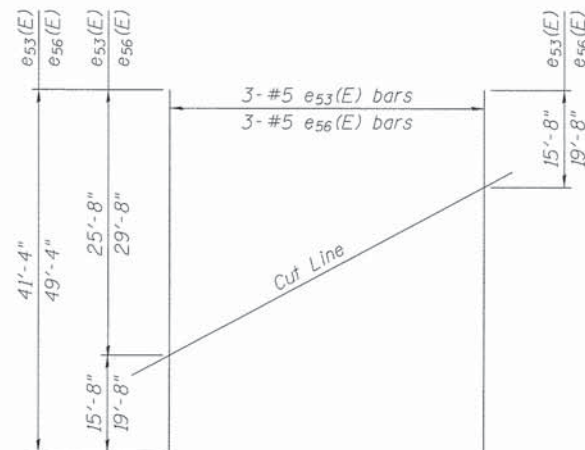


MOMENT SLAB AND PARAPET CONSTRUCTION JOINT DETAIL



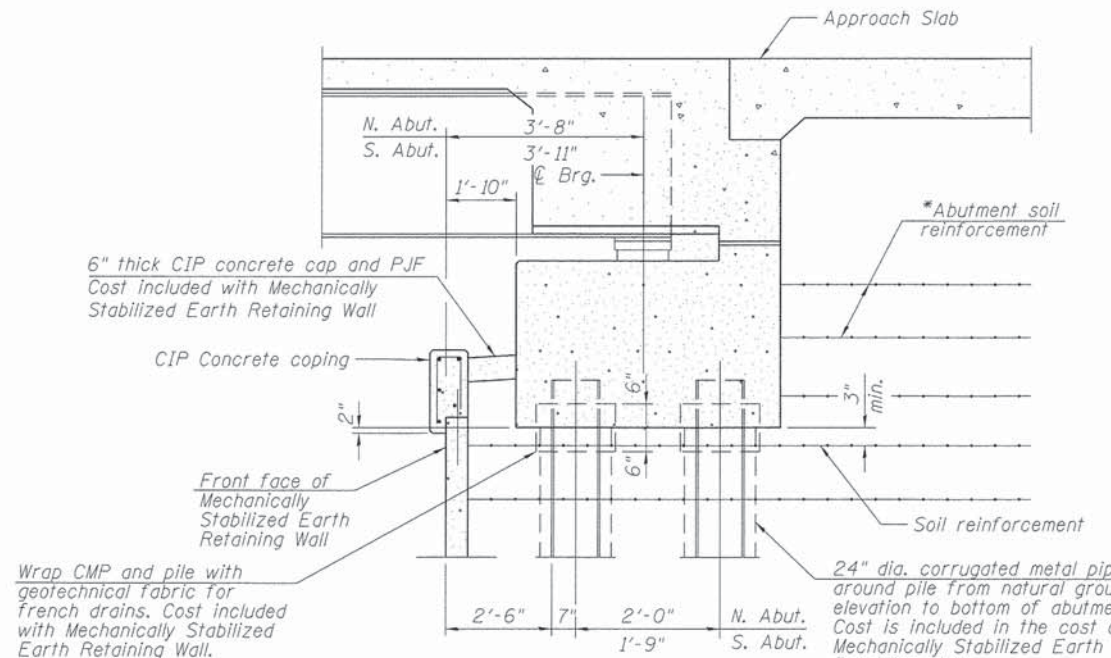
CAST-IN-PLACE COPING DETAIL

Top panel and coping are to be designed to support the bicycle railing.



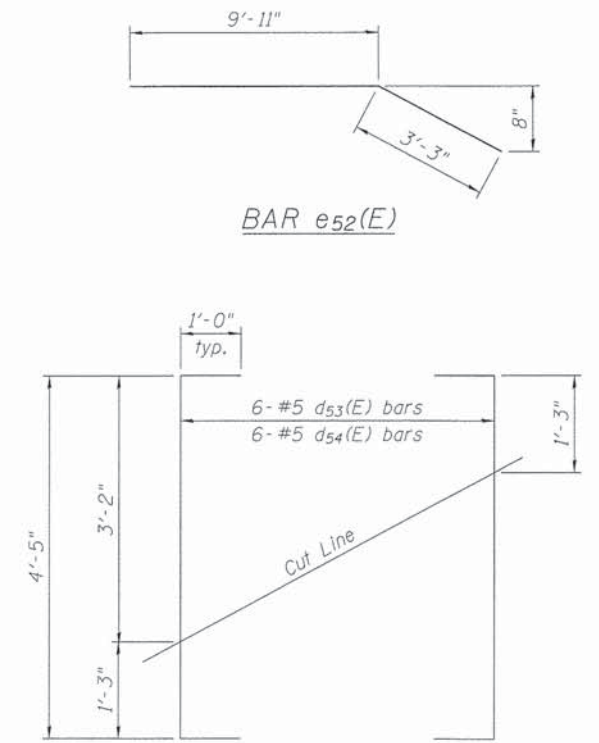
FIELD CUTTING DIAGRAM

Order e53(E) and e56(E) full length



SECTION AT ABUTMENT

* The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 1.57 kips/ft. of abutment (S. Abut.) 1.41 kips/ft. of abutment (N. Abut.).



FIELD CUTTING DIAGRAM

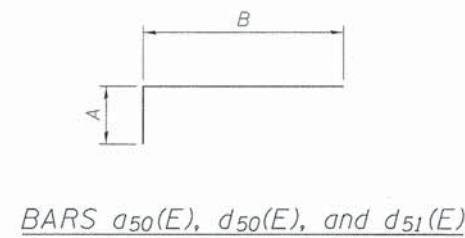
Order d53(E) and d54(E) full length

BILL OF MATERIAL

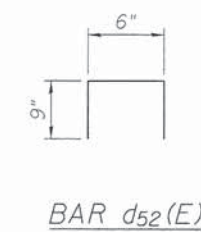
| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|----------|--------|-------|
| a50(E) | 398 | #6 | 7'-6" | ┌ |
| a51(E) | 334 | #6 | 6'-1" | ┌ |
| b50(E) | 85 | #5 | 33'-3" | ▬ |
| b51(E) | 68 | #5 | 29'-8" | ▬ |
| b52(E) | 17 | #5 | 25'-8" | ▬ |
| b53(E) | 17 | #5 | 26'-0" | ▬ |
| b54(E) | 17 | #5 | 7'-4" | ▬ |
| d50(E) | 314 | #5 | 4'-3" | ┌ |
| d51(E) | 314 | #6 | 4'-3" | ┌ |
| d52(E) | 84 | #4 | 2'-0" | ┌ |
| d53(E) | 12 | #5 | 6'-5" | ┌ |
| d54(E) | 12 | #6 | 6'-5" | ┌ |
| e50(E) | 30 | #5 | 33'-3" | ▬ |
| e51(E) | 18 | #5 | 29'-8" | ▬ |
| e52(E) | 4 | #5 | 13'-2" | ▬ |
| e53(E) | 3 | #5 | 41'-4" | ▬ |
| e54(E) | 6 | #5 | 26'-0" | ▬ |
| e55(E) | 6 | #5 | 7'-4" | ▬ |
| e56(E) | 3 | #5 | 49'-4" | ▬ |
| Concrete Superstructure | | Cu. Yds. | 129.8 | |
| Protective Coat | | Sq. Yd. | 308 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 19,490 | |
| Structure Excavation | | Cu. Yd. | 2,339 | |

Note:

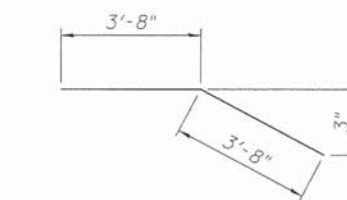
Protective Coat shall be applied to the entire top surface of the slab and the top and vertical face of the parapet.



BARS a50(E), d50(E), and d51(E)



BAR d52(E)

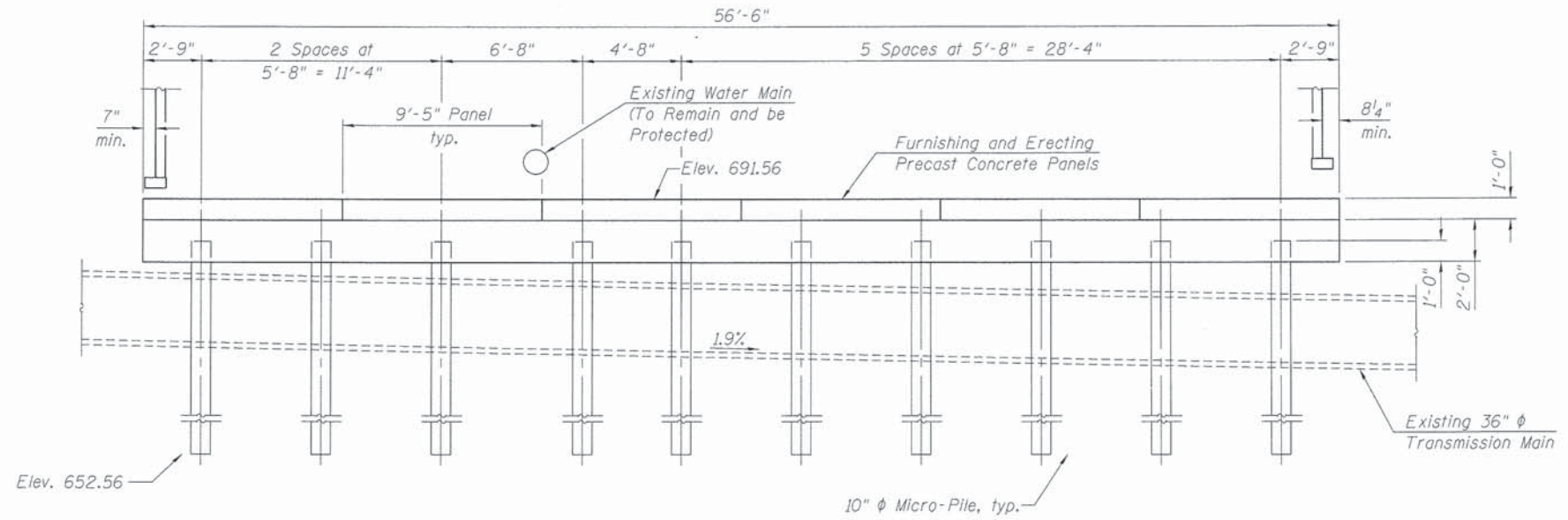


BARS b54(E) and e55(E)

MIN BAR LAP

#5 Bar = 3'-3"
#6 Bar = 3'-10"

Notes:
 For Section A-A, Precast Panel Details, and Bill of Material, see sheet 10 of 16.
 The Contractor shall field verify the location of the existing transmission main prior to construction or ordering of materials. The Contractor shall make necessary adjustments to the transmission main protection system location, as approved by the Engineer. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Welding per AWS D1-5 Bridge Welding Code. Contractor shall submit welding procedure to Engineer for approval.
 Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.

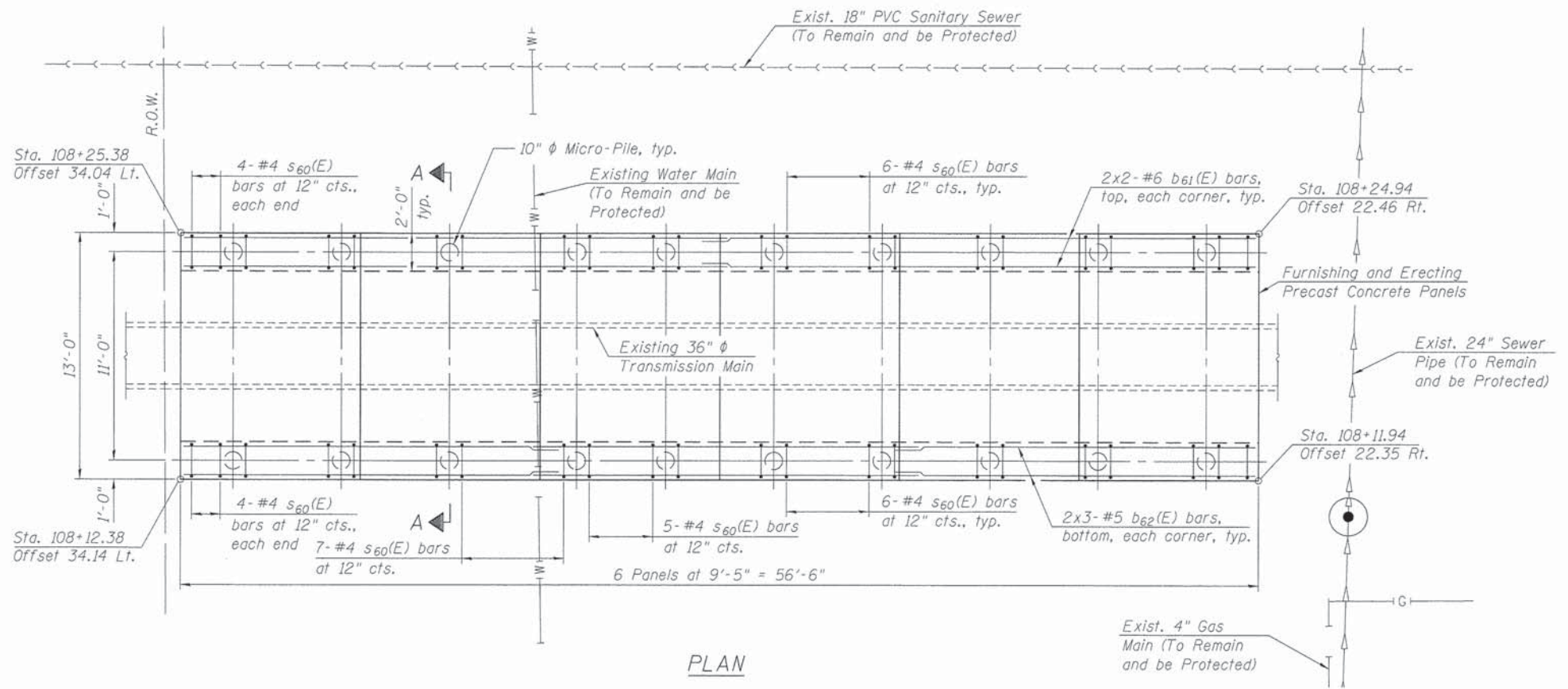


ELEVATION
(Looking North)

MICRO-PILE SCHEDULE
 No. Production Piles: 20 each
 Factored Compressive Load: 90 kips
 Factored Tensile Load: N/A
 Estimated Tip Elevation of Steel Casing: 652.56
 Min. Length of Steel Casing: 37 ft
 Estimated Bond Length: 0 ft
 Estimated Total Length of Micro-Piles: 37 ft

MICRO-PILE DESIGN STRESSES
 $f_y = 80,000$ psi (Casing)
 $f_y = 60,000$ psi (Reinforcement)
 $f'_c = 5,000$ psi (Grout)

LEGEND
 () Denotes 10" φ Micro-Pile



PLAN

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

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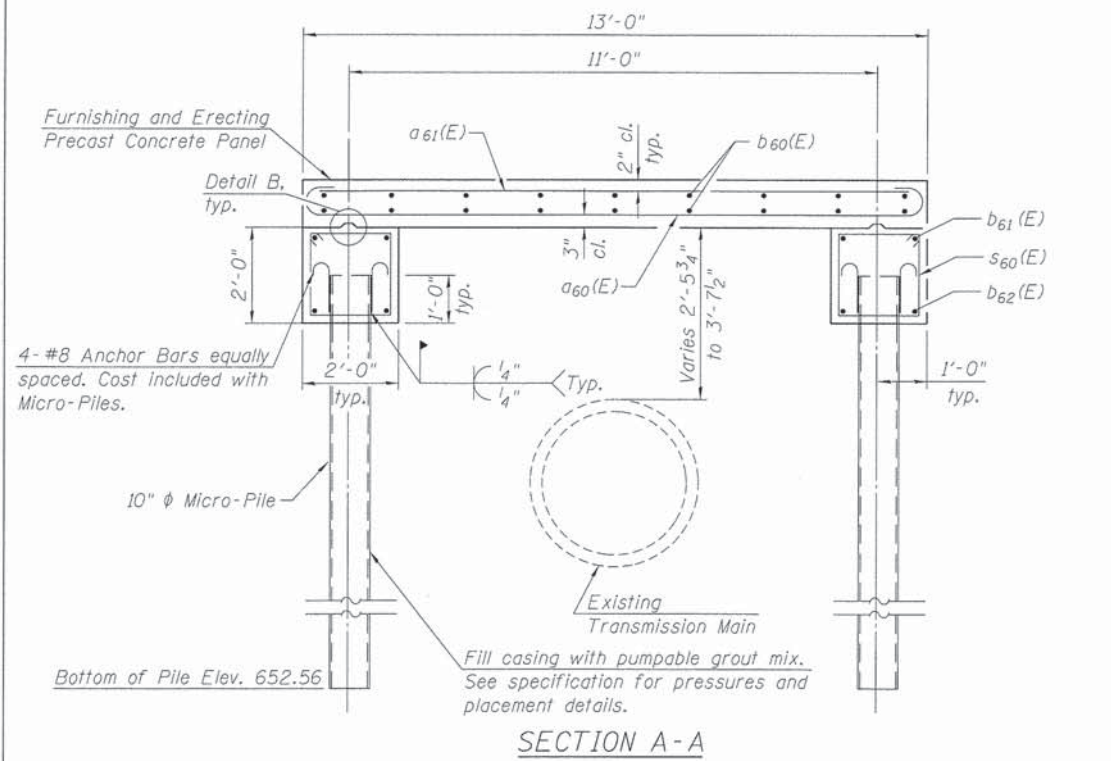
| | | |
|--------------------------------|----------------|-----------|
| USER NAME = jrmckow | DESIGNED - RVV | REVISED - |
| PLDT SCALE = 4/8,0000 1" / 16' | CHECKED - WJC | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - RVV | REVISED - |
| | CHECKED - WJC | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRANSMISSION MAIN PROTECTION SYSTEM
SHEET NO. 9 OF 16 SHEETS

| | | | | |
|---------------------------|------------------------|-------------|------------------|---------------|
| F.A.P. RTE. 4087 | SECTION 08-00278-00-BR | COUNTY KANE | TOTAL SHEETS 136 | SHEET NO. 113 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

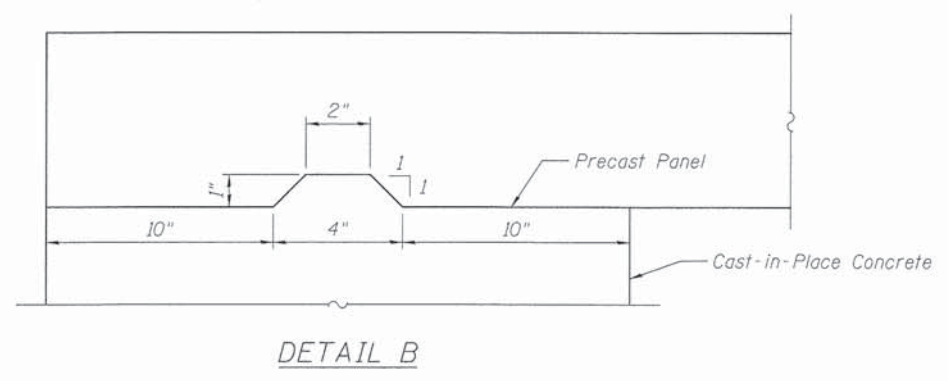
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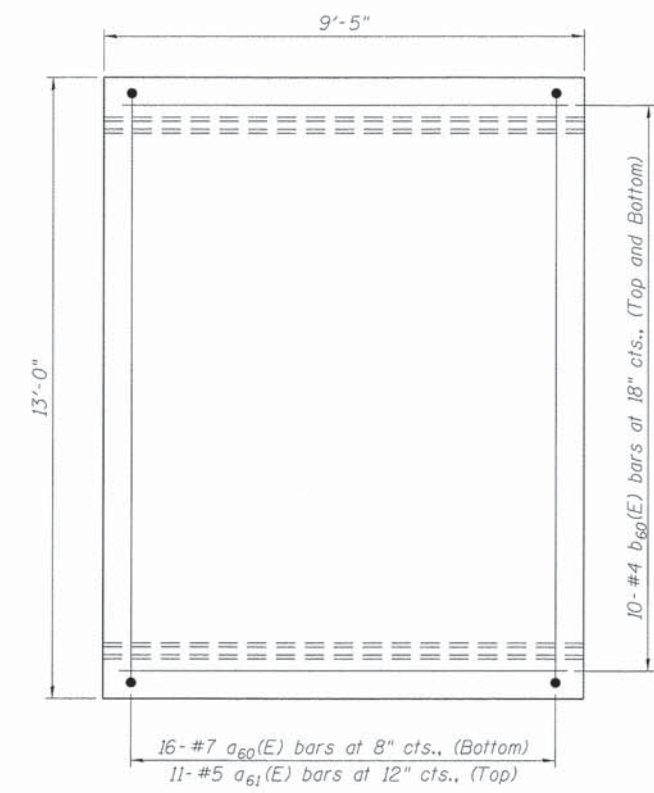
4-#8 Anchor Bars equally spaced. Cost included with Micro-Piles.

Fill casing with pumpable grout mix. See specification for pressures and placement details.

Bottom of Pile Elev. 652.56



Furnishing and Erecting Precast Concrete Panel Notes:
 Contractor shall field verify all dimensions and horizontal locations prior to ordering materials to verify fit-up of precast panels.
 The panel layout and dimensions provided are suggested. Final panel layout and dimensions shall be shown on the panel shop drawings.
 Contractor shall be responsible for exercising care in lifting, handling, storing, and transportation of the precast panels to prevent cracking or damage. Panels shall be lifted by devices as designed by the Contractor and approved by the Engineer.



*** BILL OF MATERIAL
 FURNISHING AND ERECTING
 PRECAST CONCRETE PANELS**

| Bar | No. | Size | Length | Shape | |
|------------------------------------|-----|------|--------|---------|-------|
| a60(E) | 96 | #7 | 14'-4" | | |
| a61(E) | 66 | #5 | 12'-8" | | |
| b60(E) | 120 | #4 | 9'-1" | | |
| * Concrete Structures | | | | Cu. Yd. | 27.2 |
| * Reinforcement Bars, Epoxy Coated | | | | Pound | 4,420 |
| * For information only | | | | | |

MIN BAR LAP
 #5 Bar = 3'-3"
 #6 Bar = 3'-10"

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|-----|------|---------|-------|
| b61(E) | 8 | #6 | 30'-0" | |
| b62(E) | 12 | #5 | 20'-11" | |
| s60(E) | 124 | #4 | 7'-3" | |
| Earth Excavation | | | Cu. Yd. | 570 |
| Structure Excavation | | | Cu. Yd. | 134 |
| Concrete Structures | | | Cu. Yd. | 16.8 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1,230 |
| Micro-Piles | | | Each | 20 |
| Micropile Proof Load Test | | | Each | 1 |
| Furnishing and Erecting Precast Concrete Panels | | | Each | 6 |
| Construction Vibration Monitoring | | | L. Sum | 0.5 |

Notes:
 Cost of anchor bars and grout shall be included with the cost of Micro-Piles.

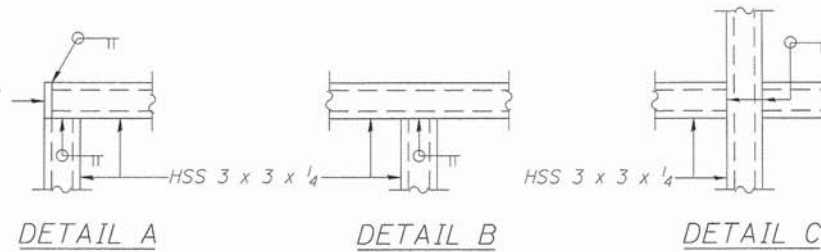
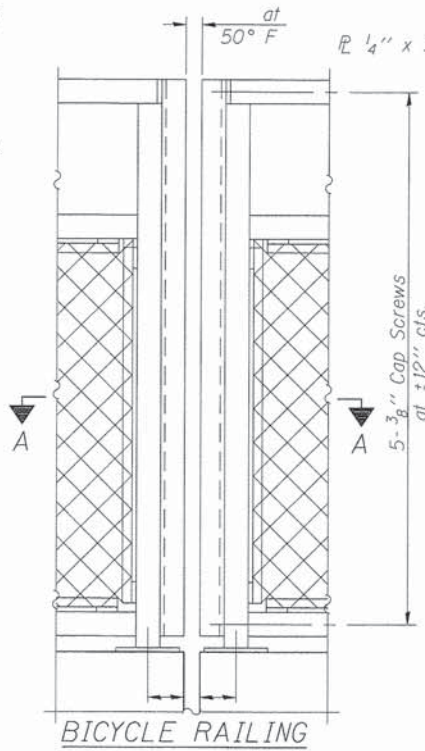
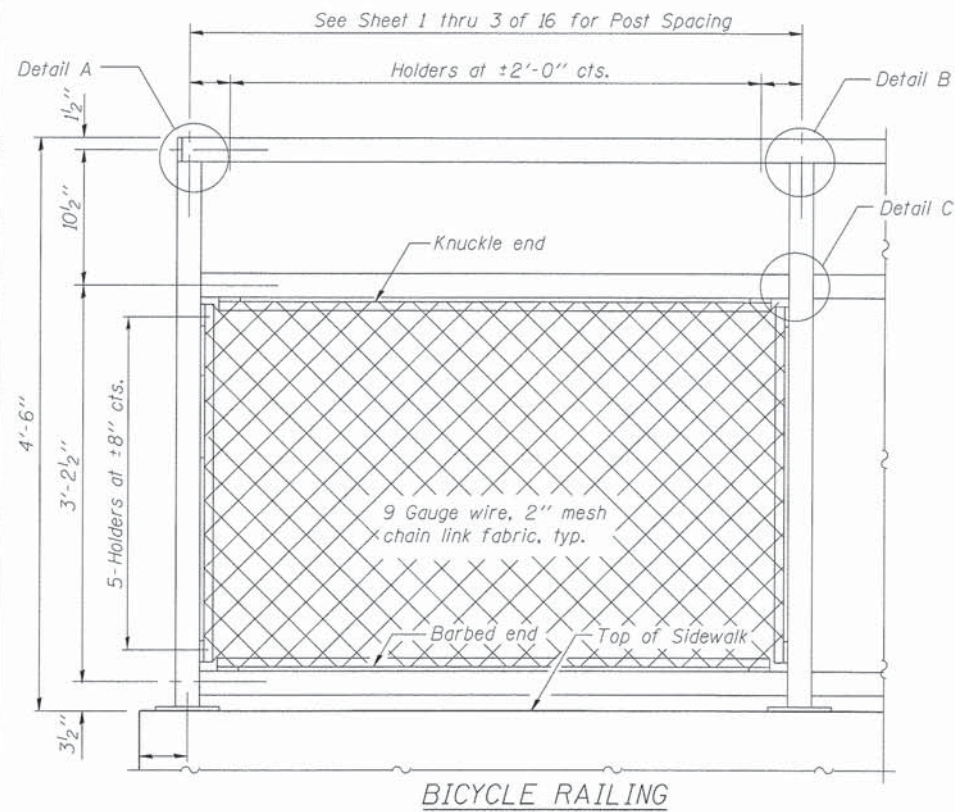


| | | |
|-------------------------------|----------------|-----------|
| USER NAME = jrmuskaw | DESIGNED - RVV | REVISED - |
| PLOT SCALE = 40.0000 1' / in. | CHECKED - WJC | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - RVV | REVISED - |
| | CHECKED - WJC | REVISED - |

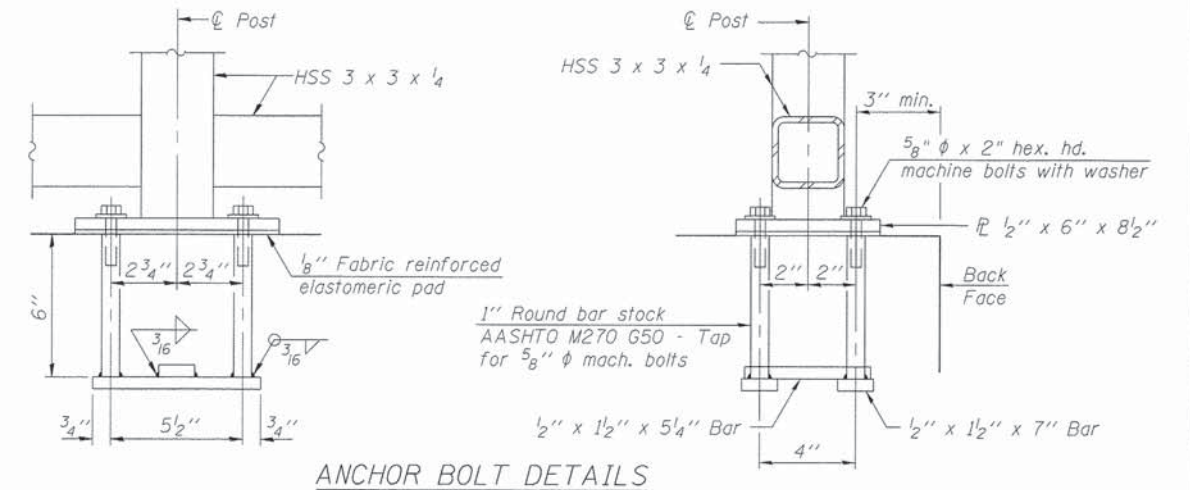
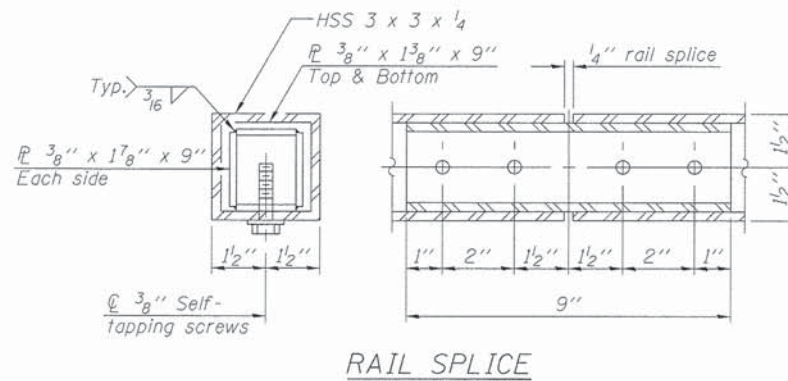
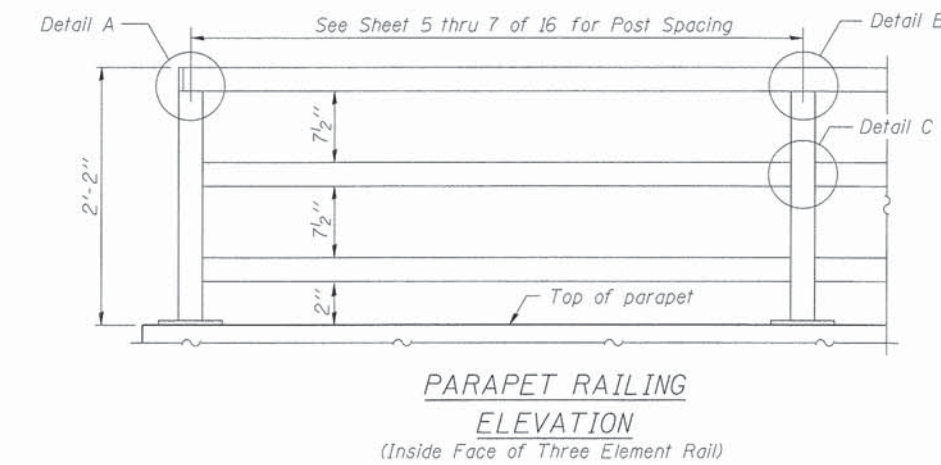
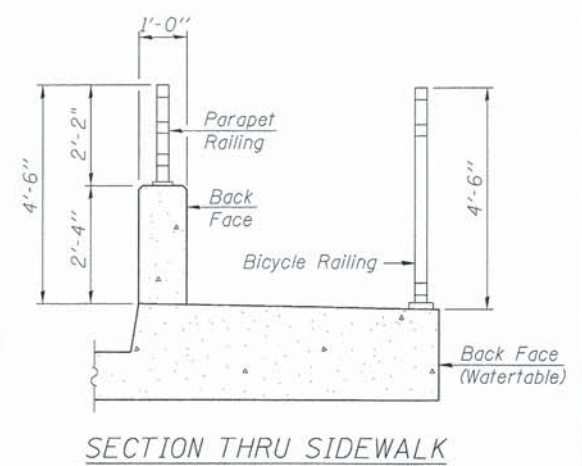
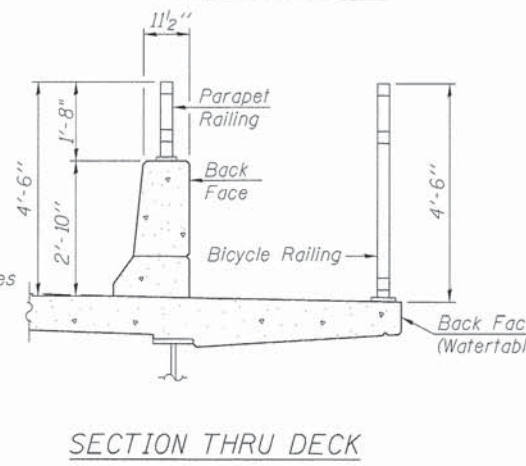
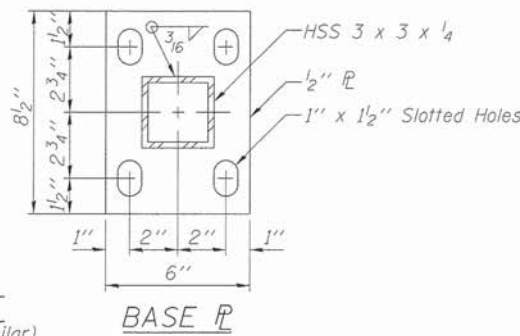
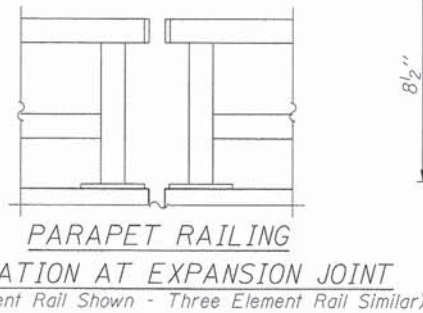
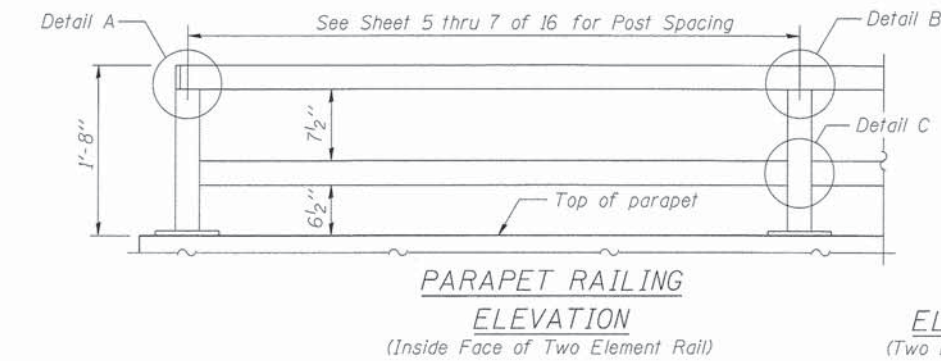
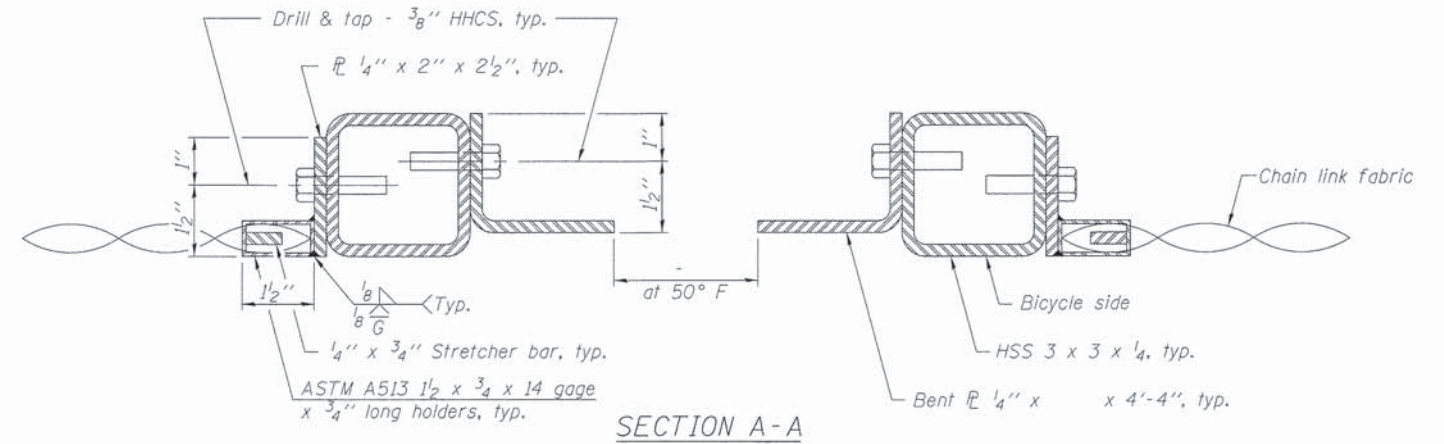
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRANSMISSION MAIN
 PROTECTION SYSTEM DETAILS**
 SHEET NO. 10 OF 16 SHEETS

| | | | | |
|---------------------------|------------------------|-------------|--------------------|---------------|
| F.A.P. RTE. 4087 | SECTION 08-00278-00-BR | COUNTY KANE | TOTAL SHEETS 136 | SHEET NO. 114 |
| | | | CONTRACT NO. 63859 | |
| ILLINOIS FED. AID PROJECT | | | | |



All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

| Item | Unit | Quantity |
|-----------------|------|----------|
| Bicycle Railing | Foot | 430 |
| Parapet Railing | Foot | 303 |

5/12/2014 5:35:52 PM - G:\CHIN\030\Bridges\CADD\Sheets\0459942-63859-045-RAIL.DET.dgn

R-29

11-1-06 (10'-0" Maximum Post Spacing)



| | | |
|------------------------------|----------------|-----------|
| USER NAME = jrmikow | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 1:8.0000 ' = 1" | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING

SHEET NO. 11 OF 16 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|--------------------|
| 4087 | 08-00278-00-BR | KANE | 136 | 115 |
| | | | | CONTRACT NO. 63859 |
| ILLINOIS FED. AID PROJECT | | | | |



wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG P-1

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 700.58 ft
North: 1857794.59 ft
East: 995701.32 ft
Station: 108+44.35
Offset: 11.72 LT

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|------------|-----------------------|----------|----------------------|---------|----------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| | 700.24 | 2.5-inch thick ASPHALT --PAVEMENT-- | | | | | | | | | | | | | |
| | 699.6 | 7-inch thick, GRAVELLY SAND --BASE COURSE-- | | | | | | | | | | | | | |
| | 697.8 | Very stiff, brown, black and gray, mottled CLAY LOAM with gravel --FILL-- | 1 | 1 | 5 | 2.19 | 19 | | | | | | | | |
| | 695.8 | Loose, black and brown SAND with clay --FILL-- | 2 | 2 | 2 | NP | 21 | | | | | | | | |
| | 695.8 | Medium stiff, black and brown CLAY LOAM --FILL-- | 3 | 3 | 2 | 0.82 | 19 | | | | | | | | |
| | 693.3 | Medium stiff, black SILTY CLAY --BURIED TOPSOIL-- --L _c = 49%, P _c = 20%-- --% Gravel = 0.9%-- --% Sand = 7.8%-- --% Silt = 60.3%-- --% Clay = 31.0%-- | 4 | 4 | 2 | 0.90 | 29 | | | | | | | | |
| | 690.1 | Medium stiff, brown and black SILTY CLAY, laminated | 5 | 5 | 2 | 0.66 | 34 | | | | | | | | |
| | 685.1 | Stiff, brown and gray SILTY CLAY | 6 | 6 | 2 | 0.57 | 28 | | | | | | | | |
| | 680.6 | Boring terminated at 20.00 ft | 7 | 7 | 2 | 0.82 | 31 | | | | | | | | |
| | | | 8 | 8 | 2 | 1.80 | 17 | | | | | | | | |
| | | | 9 | 9 | 3 | NP | 16 | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|-----------------|---------------------------|---------|-----|--|
| Begin Drilling | 09-01-2009 | Complete Drilling | 09-01-2009 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Checked by | E. Datz | | |
| Drilling Method | 4.25-inch IDA HSA | | | Time After Drilling | NA | | |
| | | | | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |



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BORING LOG P-2

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 697.21 ft
North: 1857684.04 ft
East: 995718.54 ft
Station: 107+33.54
Offset: 4.35 RT

| Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile | Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|---------|----------------|--|------------|------------|-----------------------|----------|----------------------|---------|----------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| | 696.7 | 6-inch thick ASPHALT --PAVEMENT-- | | | | | | | | | | | | | |
| | 693.5 | Medium dense, black and brown GRAVELLY SAND --FILL-- | 1 | 1 | 10 | NP | 4 | | | | | | | | |
| | 690.2 | Medium stiff to very stiff, brown and gray CLAY LOAM with gravel --FILL-- | 2 | 2 | 3 | 0.90 | 19 | | | | | | | | |
| | 689.7 | Black SILTY CLAY --BURIED TOPSOIL-- | 3 | 3 | 2 | 2.46 | 25 | | | | | | | | |
| | 689.7 | Very stiff to hard, brown and gray SILTY CLAY LOAM | 4 | 4 | 2 | 3.20 | 24 | | | | | | | | |
| | 681.7 | Loose to medium dense, brown SILT with gravel | 5 | 5 | 2 | 6.97 | 14 | | | | | | | | |
| | 677.2 | Boring terminated at 20.00 ft | 6 | 6 | 4 | 3.61 | 17 | | | | | | | | |
| | | | 7 | 7 | 4 | 5.82 | 15 | | | | | | | | |
| | | | 8 | 8 | 8 | NP | 19 | | | | | | | | |
| | | | 9 | 9 | 2 | NP | 11 | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|-----------------|---------------------------|---------|----------|--|
| Begin Drilling | 09-01-2009 | Complete Drilling | 09-01-2009 | While Drilling | ▽ | 16.00 ft | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Checked by | E. Datz | | |
| Drilling Method | 4.25-inch IDA HSA | | | Time After Drilling | NA | | |
| | | | | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |

5/12/2014 4:56:46 PM - G:\CH\10130\Bridges\CADD\Sheet\0459942-63859-046-WBL01.dgn



| | | |
|-------------------------------|----------------|-----------|
| USER NAME = rlschultz | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 1:8,000 1" = 80' | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
RETAINING WALLS

SHEET NO. 12 OF 16 SHEETS

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 116 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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BORING LOG P-3

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 693.14 ft
North: 1858300.75 ft
East: 995698.71 ft
Station: 113+50.49
Offset: 9.07 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|----------------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|----------------------|------------|-----------------------|----------|----------------------|
| 692.5 | 5-inch thick ASPHALT in two layers separated by 3-inches of gravel --PAVEMENT-- | | | | | | | | | | | | | | |
| 690.4 | Medium dense, brown SANDY LOAM --FILL-- | 1 | | 10 | 8 | NP | 11 | | | | | | | | |
| 688.4 | Loose, gray SANDY GRAVEL with clay --FILL-- | 2 | | 4 | 4 | NP | 11 | | | | | | | | |
| | Very soft to medium stiff, brown GRAVELLY SILTY LOAM --FILL-- | 3 | | 2 | 2 | 0.25 | 17 | | | | | | | | |
| | | 4 | | 1 | 2 | 0.82 | 16 | | | | | | | | |
| | | 5 | | 3 | 2 | 0.33 | 17 | | | | | | | | |
| 682.6 | Stiff, brown CLAY --FILL-- | 6 | | 1 | 2 | 1.64 | 20 | | | | | | | | |
| 680.1 | Loose, brown GRAVELLY SAND | 7 | | 4 | 4 | NP | 18 | | | | | | | | |
| 675.1 | Medium dense, brown SILT with gravel | 9 | | 2 | 5 | NP | 14 | | | | | | | | |
| 673.1 | Boring terminated at 20.00 ft | | | | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|-------------------|---------------------------|---|----------|--|
| Begin Drilling | 09-01-2009 | Complete Drilling | 09-01-2009 | While Drilling | ▽ | 16.00 ft | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Time After Drilling | | NA | |
| Checked by | E. Datz | Drilling Method | 4.25-inch IDA HSA | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |



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BORING LOG P-4

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 695.69 ft
North: 1858256.79 ft
East: 995716.43 ft
Station: 113+06.25
Offset: 8.20 RT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type recovery | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|----------------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|----------------------|------------|-----------------------|----------|----------------------|
| 695.4 | 3-inch thick ASPHALT --PAVEMENT-- | | | | | | | | | | | | | | |
| 693.9 | Brown GRAVELLY SAND --FILL-- | 1 | | 5 | 5 | NP | 8 | | | | | | | | |
| | Loose, brown SILTY LOAM --FILL-- | 2 | | 2 | 5 | NP | 9 | | | | | | | | |
| | Soft to stiff, brown GRAVELLY SILTY LOAM --FILL-- | 3 | | 2 | 2 | 0.82 | 17 | | | | | | | | |
| | | 4 | | 4 | 4 | 1.50 | 18 | | | | | | | | |
| | | 5 | | 2 | 2 | 0.75 | 21 | | | | | | | | |
| | | 6 | | 2 | 2 | 0.75 | 17 | | | | | | | | |
| | | 7 | | 4 | 5 | 0.25 | 22 | | | | | | | | |
| 680.2 | Medium dense, brown and gray GRAVELLY SAND | 8 | | 8 | 5 | NP | 13 | | | | | | | | |
| 677.7 | Medium dense, brown and gray SILTY LOAM with gravel | 9 | | 4 | 5 | NP | 12 | | | | | | | | |
| 675.7 | Boring terminated at 20.00 ft | | | | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|-------------------|---------------------------|---|-----|--|
| Begin Drilling | 09-01-2009 | Complete Drilling | 09-01-2009 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | Mobile B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | J&J | Logger | A. Kurnia | Time After Drilling | | NA | |
| Checked by | E. Datz | Drilling Method | 4.25-inch IDA HSA | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |

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| | | |
|----------------------------------|----------------|-----------|
| USER NAME = rlschultz | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 1:8,000 @ 1/4" = 1' | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
RETAINING WALLS

SHEET NO. 13 OF 16 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|--------------------|
| 4087 | 08-00278-00-BR | KANE | 136 | 117 |
| | | | | CONTRACT NO. 63859 |
| ILLINOIS FED. AID PROJECT | | | | |



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BORING LOG MSE-01

WEI Job No.: 790-63-01

Client: **Transystems Corporation**
Project: **Ohio Street over BNSF Rail Road, Phase 2**
Location: **Aurora, IL**

Datum: NAVD88
Elevation: 698.80 ft
North: 1857744.00 ft
East: 995704.00 ft
Station: 107+97.39
Offset: 6.86 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|-------------|-----------------------|----------|----------------------|------------------------|---|------------|------------------|-----------------------|----------|----------------------|
| 698.54 | 98.54-inch thick ASPHALT --PAVEMENT-- Stiff to very stiff, brown SILTY CLAY LOAM | | | | | | 678.3 | Medium dense, brown SILT to SILTY LOAM | | | | | |
| | --FILL-- | 1 | 8 4 5 | 3.00 P | 15 | | | | 9 | 6 8 9 | NP | 20 | |
| | | 2 | 2 3 3 | 1.00 P | 21 | | | | 10 | 4 6 14 | 1.07 B | 12 | |
| | | 3 | 3 3 6 | 2.50 P | 23 | | 673.3 | Hard, gray SILTY CLAY, gravel and cobbles | | | | | |
| | | 4 | 2 3 5 | 2.54 B | 23 | | | | 11 | 11 13 14 | 4.00 P | 10 | |
| | | 5 | 3 4 5 | 1.97 B | 20 | | | | 12 | 20 26 50/3 | NP | 9 | |
| 688.3 | Stiff to very stiff, brown SILTY CLAY, trace gravel | | | | | | 668.8 | Boring terminated at 30.00 ft | | | | | |
| | | 6 | 2 4 5 | 1.48 B | 30 | | | | | | | | |
| | | 7 | 3 3 5 | 1.23 B | 28 | | | | | | | | |
| | | 8 | 3 2 6 | 3.26 S | 17 | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|---|---------------------------|----|-----|--|
| Begin Drilling | 03-01-2013 | Complete Drilling | 03-01-2013 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | D-50 | At Completion of Drilling | ▽ | DRY | |
| Driller | R&N | Logger | A. Muhammed | Time After Drilling | NA | | |
| Checked by | M. Snider | Drilling Method | 4.0" DIA SFA; Boring backfilled upon completion | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |



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BORING LOG MSE-02

WEI Job No.: 790-63-01

Client: **Transystems Corporation**
Project: **Ohio Street over BNSF Rail Road, Phase 2**
Location: **Aurora, IL**

Datum: NAVD88
Elevation: 701.48 ft
North: 1857824.32 ft
East: 995719.51 ft
Station: 108+77.50
Offset: 9.41 RT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|---|------------|-------------|-----------------------|----------|----------------------|------------------------|--|------------|----------------|-----------------------|----------|----------------------|
| 701.24 | 21.24-inch thick ASPHALT --PAVEMENT-- Very stiff, brown SILTY CLAY to SILTY CLAY LOAM, gravel and cobbles | | | | | | 681.0 | Stiff to hard, brown and gray SILTY CLAY, gravel and cobbles | | | | | |
| | --FILL-- | 1 | 4 5 5 | 2.00 P | 12 | | | | 9 | 3 5 16 | 2.30 B | 13 | |
| | | 2 | 4 3 4 | 3.00 P | 15 | | | | 10 | 5 7 13 | 1.31 B | 13 | |
| | | 3 | 5 6 6 | NR | | | | | 11 | 8 12 14 | 4.50 P | 11 | |
| | | 4 | 3 4 6 | 2.71 B | 24 | | | | 12 | 15 12 13 | 4.00 P | 12 | |
| | | 5 | 4 6 5 | NR | | | 671.5 | Boring terminated at 30.00 ft | | | | | |
| | | 6 | 3 5 6 | 2.30 B | 24 | | | | | | | | |
| | | 7 | 3 4 7 | 1.39 B | 30 | | | | | | | | |
| | | 8 | 2 3 4 | 1.56 B | 24 | | | | | | | | |
| 686.0 | Stiff, brown SILTY CLAY LOAM, trace gravel | | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---|-----------------------|-------------------|---|---------------------------|----|-----|--|
| Begin Drilling | 03-01-2013 | Complete Drilling | 03-01-2013 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | D-50 | At Completion of Drilling | ▽ | DRY | |
| Driller | R&N | Logger | A. Muhammed | Time After Drilling | NA | | |
| Checked by | M. Snider | Drilling Method | 4.0" DIA SFA; Boring backfilled upon completion | Depth to Water | ▽ | NA | |
| The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | | | | | |

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| | | |
|--------------------------------|----------------|-----------|
| USER NAME = rlschultz | DESIGNED - WJC | REVISED - |
| PLOT SCALE = 1:8,000 1" = 100' | CHECKED - JRM | REVISED - |
| PLOT DATE = 5/12/2014 | DRAWN - WJC | REVISED - |
| | CHECKED - MDS | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
RETAINING WALLS**

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 4087 | 08-00278-00-BR | KANE | 136 | 118 |
| CONTRACT NO. 63859 | | | ILLINOIS FED. AID PROJECT | |



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BORING LOG CIP-01

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 696.76 ft
North: 1857632.18 ft
East: 995704.13 ft
Station: 106+85.58
Offset: 7.76 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|--------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 696.35 | 3.5-inch thick ASPHALT --PAVEMENT-- Very stiff, brown SILTY CLAY --FILL-- | 1 | 7 6 7 | 3.00 | 16 | | | | | | | | |
| 693.8 | Stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel | 2 | 4 5 5 | 2.50 | 20 | | | | | | | | |
| | | 3 | 2 1 3 | 1.25 | 27 | | | | | | | | |
| | | 4 | 5 8 11 | 6.72 | 17 | | | | | | | | |
| | | 5 | 4 8 10 | 7.54 | 17 | | | | | | | | |
| | | 6 | 7 9 12 | 8.20 | 18 | | | | | | | | |
| 681.8 | Boring terminated at 15.00 ft | 15 | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|---|-------------------|-------------|---|----|-----|--|
| Begin Drilling | 03-01-2013 | Complete Drilling | 03-01-2013 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | D-50 | At Completion of Drilling | ▽ | DRY | |
| Driller | R&N | Logger | A. Muhammed | Time After Drilling | NA | | |
| Checked by | M. Snider | Depth to Water | ▽ | NA | | | |
| Drilling Method | 4.0" DIA SFA; Boring backfilled upon completion | | | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | |



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Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG CIP-02

WEI Job No.: 790-63-01

Client **Transystems Corporation**
Project **Ohio Street over BNSF Rail Road, Phase 2**
Location **Aurora, IL**

Datum: NAVD88
Elevation: 697.22 ft
North: 1857571.53 ft
East: 995704.25 ft
Station: 106+24.93
Offset: 8.20 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|---|------------|-------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 696.94 | 3.5-inch thick ASPHALT --PAVEMENT-- Stiff to very stiff, brown SILTY CLAY LOAM to CLAY LOAM --FILL-- | 1 | 9 8 8 | 2.25 | 17 | | | | | | | | |
| | | 2 | 1 2 1 | 1.25 | 25 | | | | | | | | |
| 691.7 | Soft, brown and gray CLAY LOAM | 3 | 1 2 1 | 0.25 | 31 | | | | | | | | |
| 689.2 | Hard, brown SILTY CLAY, trace gravel | 4 | 2 5 6 | 4.02 | 23 | | | | | | | | |
| | | 5 | 4 5 8 | 4.92 | 18 | | | | | | | | |
| | | 6 | 4 6 9 | 5.99 | 15 | | | | | | | | |
| 682.2 | Boring terminated at 15.00 ft | 15 | | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|---|-------------------|-------------|---|----|-----|--|
| Begin Drilling | 03-01-2013 | Complete Drilling | 03-01-2013 | While Drilling | ▽ | DRY | |
| Drilling Contractor | Wang Testing Services | Drill Rig | D-50 | At Completion of Drilling | ▽ | DRY | |
| Driller | R&N | Logger | A. Muhammed | Time After Drilling | NA | | |
| Checked by | M. Snider | Depth to Water | ▽ | NA | | | |
| Drilling Method | 4.0" DIA SFA; Boring backfilled upon completion | | | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | |

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WANGENGINC 7906301.GPJ WANGENG.GDT 4/8/13

WANGENGINC 7906301.GPJ WANGENG.GDT 4/8/13



| | | |
|--------------------------------|----------------|-----------|
| USER NAME = rlschultz | DESIGNED = WJC | REVISED = |
| PLOT SCALE = 1:8,000 1" = 100' | CHECKED = JRM | REVISED = |
| PLOT DATE = 5/12/2014 | DRAWN = WJC | REVISED = |
| | CHECKED = MDS | REVISED = |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
RETAINING WALLS
SHEET NO. 15 OF 16 SHEETS

| | | | | |
|-----------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 119 |
| CONTRACT NO. 63859 | | | | |
| [ILLINOIS] FED. AID PROJECT | | | | |



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BORING LOG CIP-03

WEI Job No.: 790-63-01

Client **Transystems Corporation**
 Project **Ohio Street over BNSF Rail Road, Phase 2**
 Location **Aurora, IL**

Datum: NAVD88
 Elevation: 698.34 ft
 North: 1857507.77 ft
 East: 995706.52 ft
 Station: 105+61.15
 Offset: 7.59 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample Type | Sample No. | SPT Values (blw/6 in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|-------------|------------|-----------------------|-----------|----------------------|------------------------|---------------------------|------------|-------------|------------|-----------------------|----------|----------------------|
| 697.9 | 5-inch thick ASPHALT --PAVEMENT-- | | | | | | | | | | | | | | |
| | Medium stiff to very stiff, brown and gray SILTY CLAY LOAM --FILL-- | 1 | | 1 | 13 9 5 | 2.25 P | 21 | | | | | | | | |
| | | 2 | | 2 | 2 1 2 | 0.75 P | 25 | | | | | | | | |
| 692.1 | Very stiff to hard, brown SILTY CLAY, trace gravel | 3 | | 3 | 3 3 5 | 2.54 S | 27 | | | | | | | | |
| | | 4 | | 4 | 4 7 11 | 7.05 B | 17 | | | | | | | | |
| | | 5 | | 5 | 3 8 12 | 8.28 B | 17 | | | | | | | | |
| 683.3 | Boring terminated at 15.00 ft | 6 | | 6 | 3 5 8 | 3.12 B | 17 | | | | | | | | |

GENERAL NOTES

Begin Drilling **03-01-2013** Complete Drilling **03-01-2013**
 Drilling Contractor **Wang Testing Services** Drill Rig **D-50**
 Driller **R&N** Logger **A. Muhammed** Checked by **M. Snider**
 Drilling Method **4.0" DIA SFA; Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **DRY**
 At Completion of Drilling **DRY**
 Time After Drilling **NA**
 Depth to Water **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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WANGENG\CIP-03\WANGENG.GDT 4/8/13



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| | CHECKED - JRM | REVISED - |
| PLOT SCALE = 1:0.0000 '1' / in. | DRAWN - WJC | REVISED - |
| PLOT DATE = 5/12/2014 | CHECKED - MDS | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

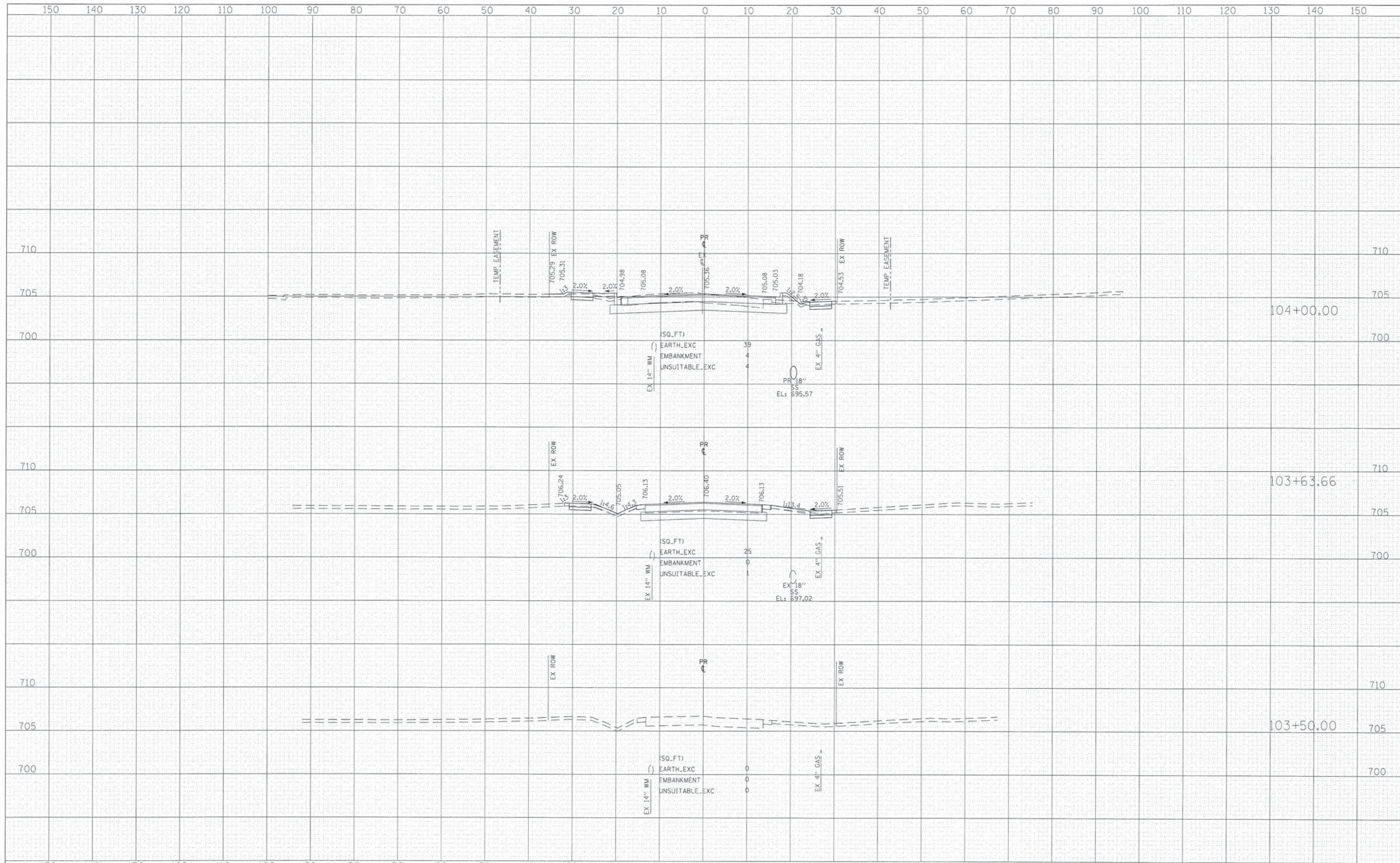
BORING LOGS RETAINING WALLS

SHEET NO. 16 OF 16 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|--------------------|
| 4087 | 08-00278-00-BR | KANE | 136 | 120 |
| | | | | CONTRACT NO. 63859 |
| ILLINOIS FED. AID PROJECT | | | | |

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| | DATE - 5/12/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

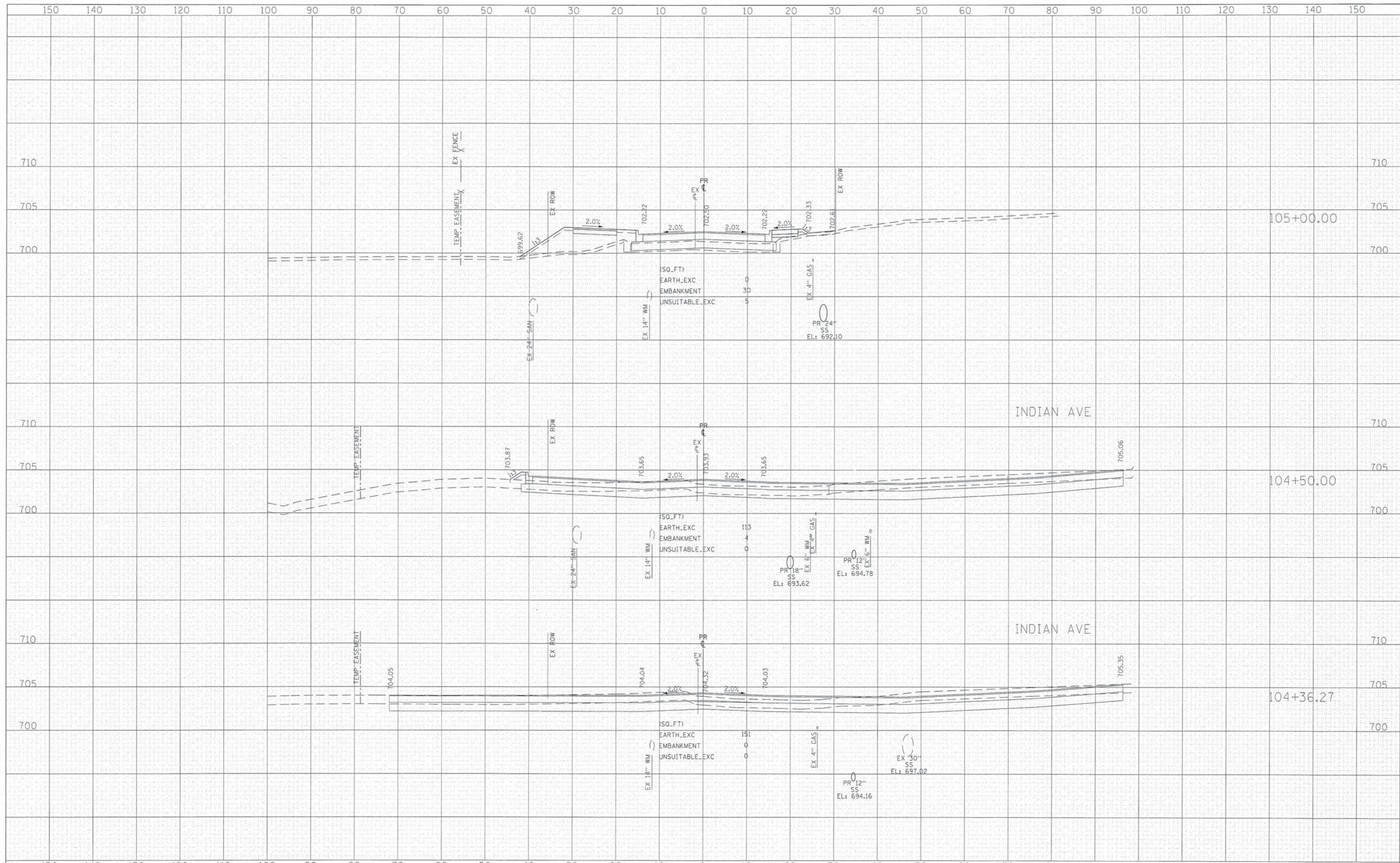
CROSS SECTIONS

SCALE: 10H 5:V SHEET NO. 121 OF 136 SHEETS STA. 103+50.00 TO STA. 104+00.00

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| F.A.P. RTE. 4087 | SECTION 08-00278-00-BR | COUNTY KANE | TOTAL SHEETS 136 | SHEET NO. 121 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

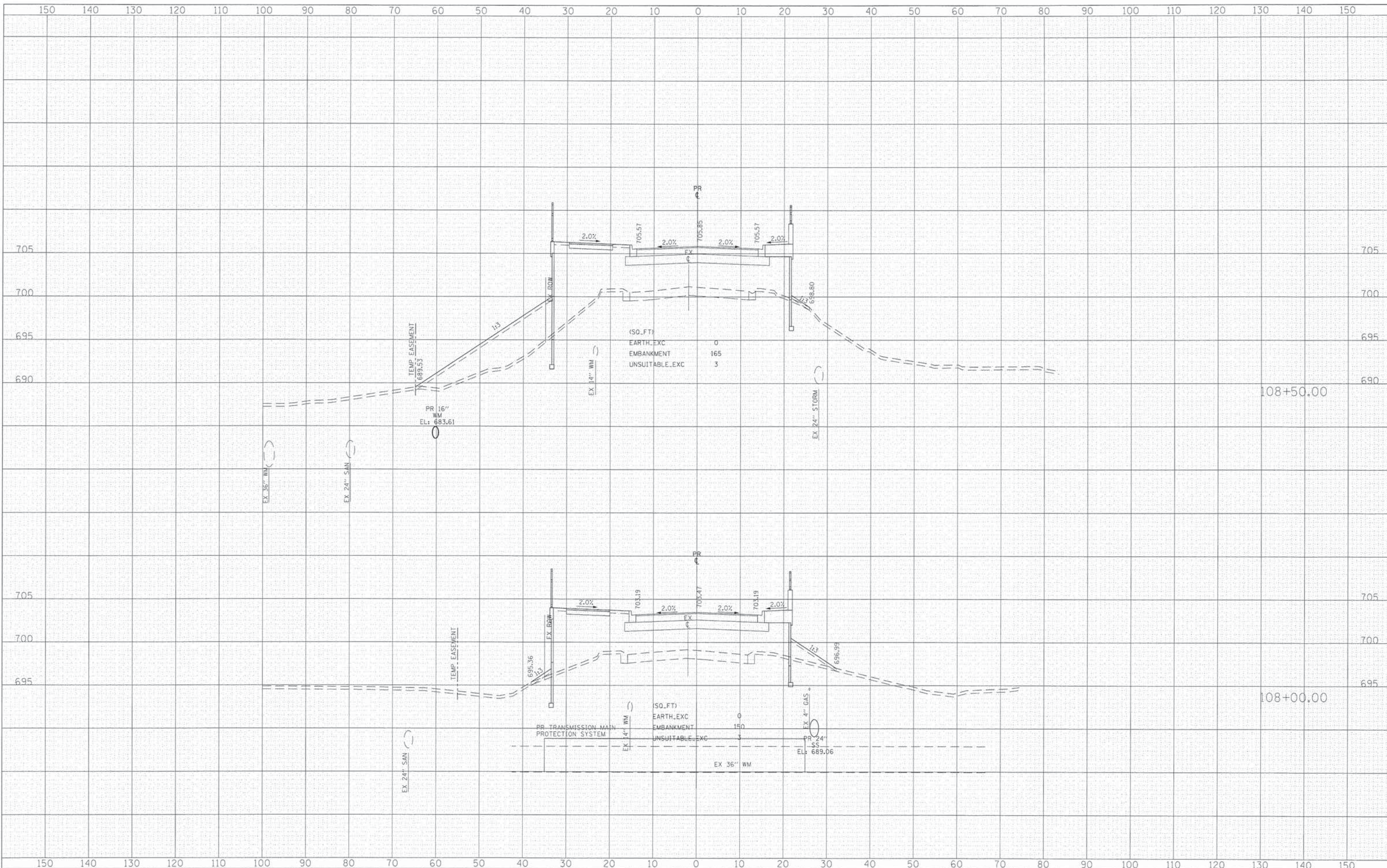
CROSS SECTIONS

SCALE: 10H 5V SHEET NO. 122 OF 136 SHEETS STA. 104+36.27 TO STA. 105+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 4087 | 08-00278-00-BR | KANE | 136 | 122 |
| CONTRACT NO. 63859 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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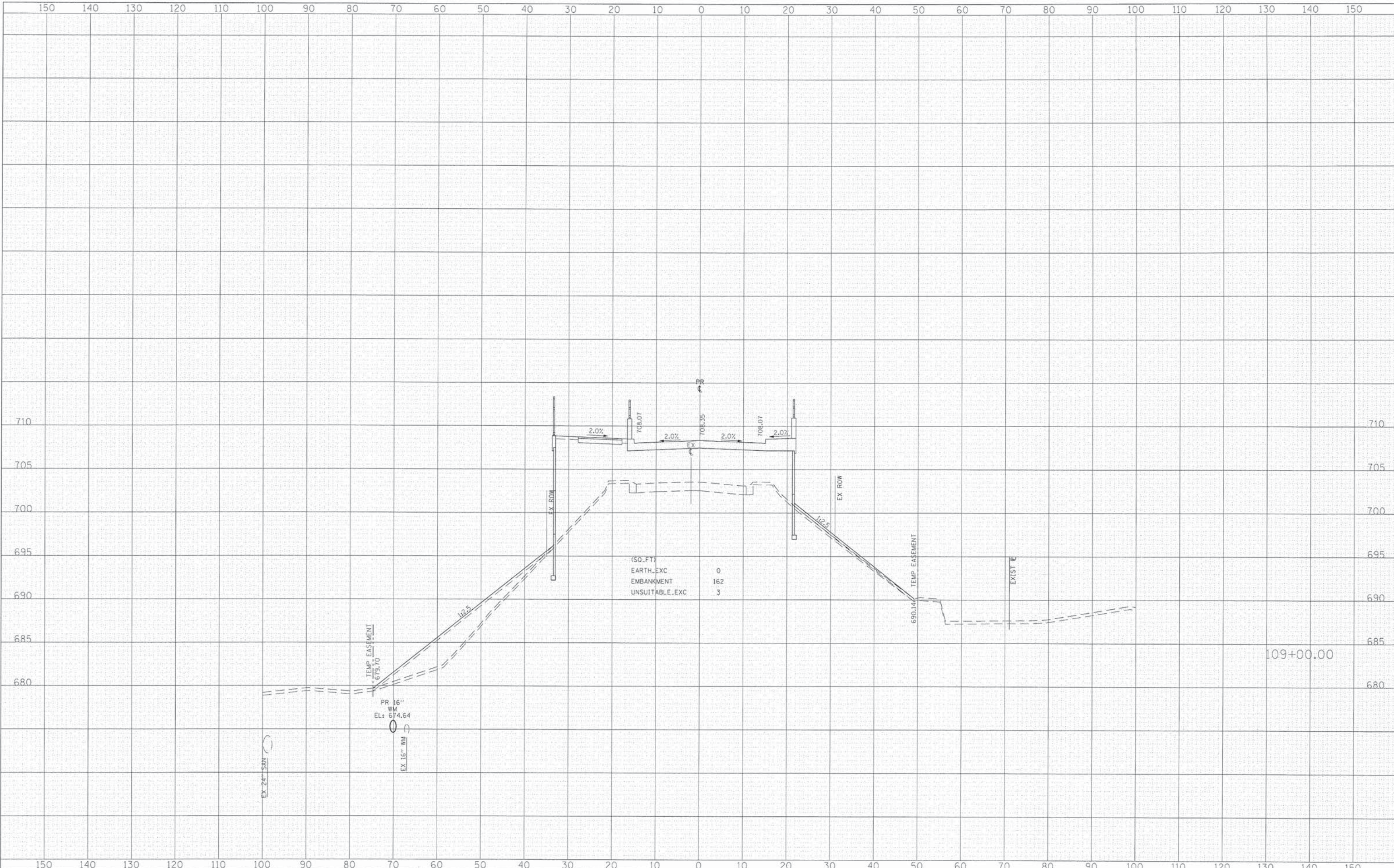
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| MODELNAME = | PLOT SCALE = 10.0000' / 1" = | CHECKED - YSK | REVISED - | | SCALE: 10'H 5:V | SHEET NO. 125 OF 136 SHEETS | STA. 108+00.00 TO STA. 108+50.00 | CONTRACT NO. 63859 | | | | | |
| | PLOT DATE = 5/12/2014 | DATE - 5/12/14 | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | | |
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 PLOT DATE = 5/12/2014

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| DATE - | 5/12/14 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

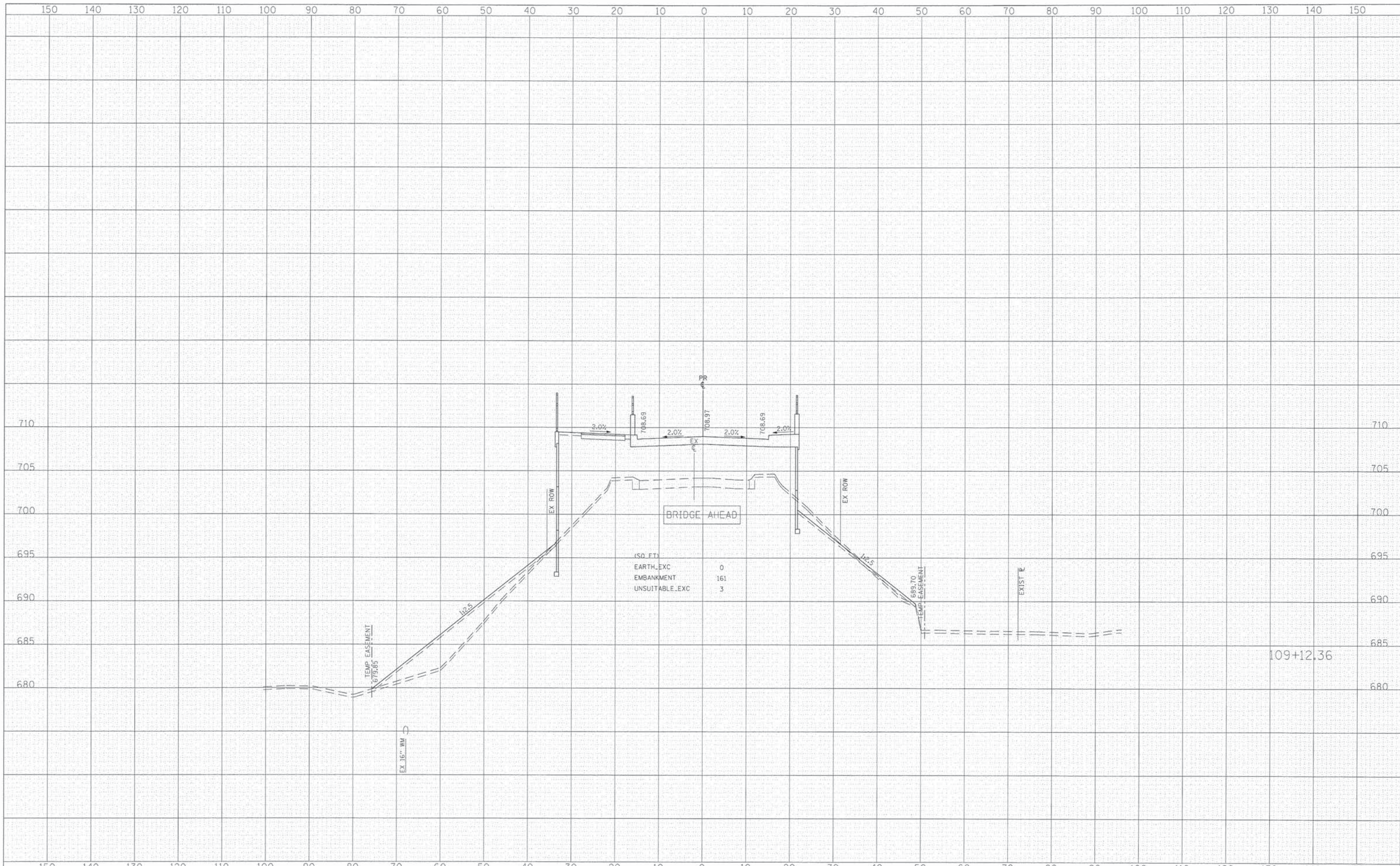
CROSS SECTIONS

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 126 |
| | | | | CONTRACT NO. 63859 |
| [ILLINOIS] FED. AID PROJECT | | | | |

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

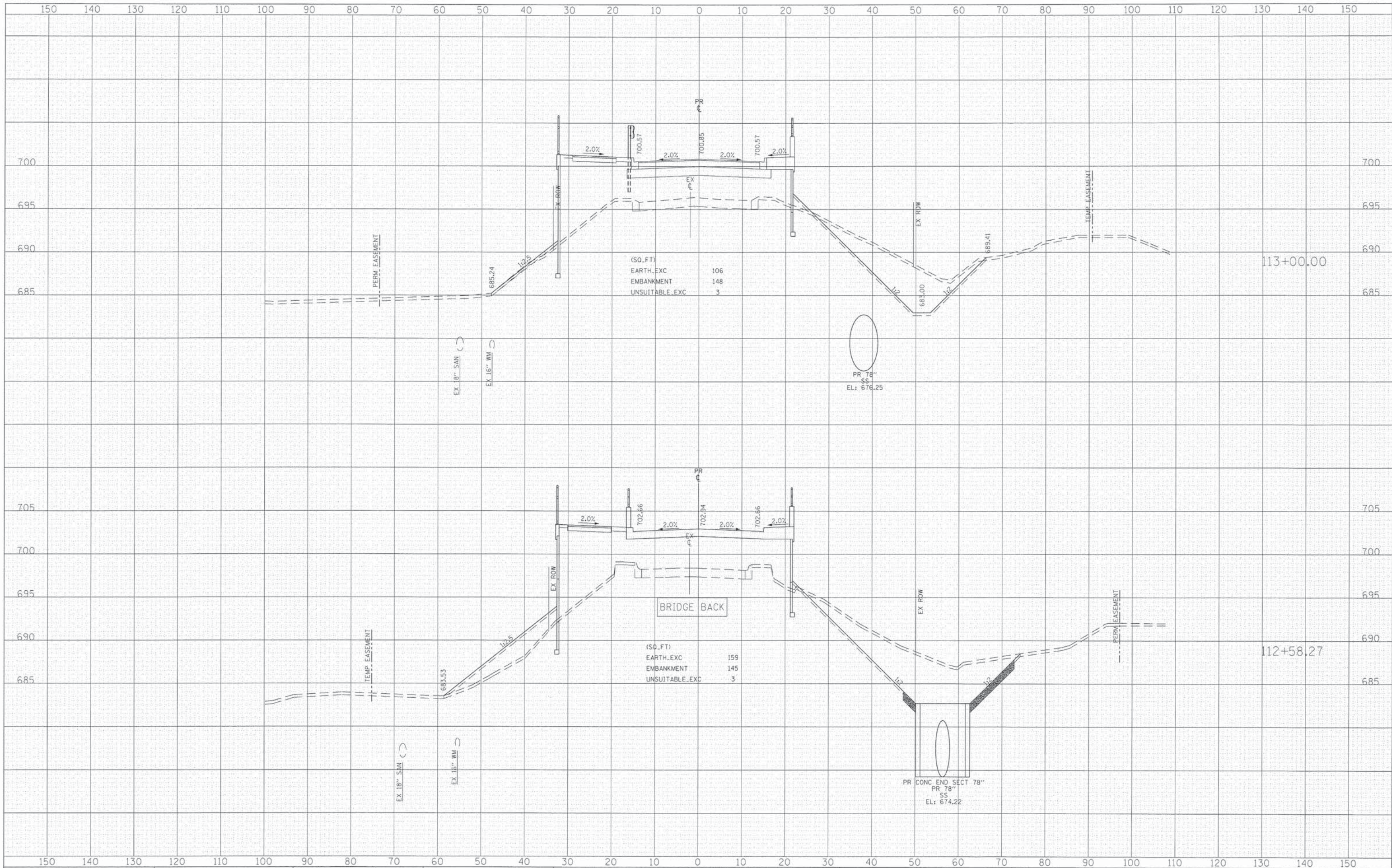
CROSS SECTIONS

SCALE: 10'H 5"V SHEET NO. 127 OF 136 SHEETS STA. 109+12.36 TO STA. 109+12.36

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 4087 | 08-00278-00-BR | KANE | 136 | 127 |
| | | | CONTRACT NO. 63859 | |
| [ILLINOIS] FED. AID PROJECT | | | | |

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DRAWN - MLB

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REVISION -
CHECKED - YSK
DATE - 5/12/14

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

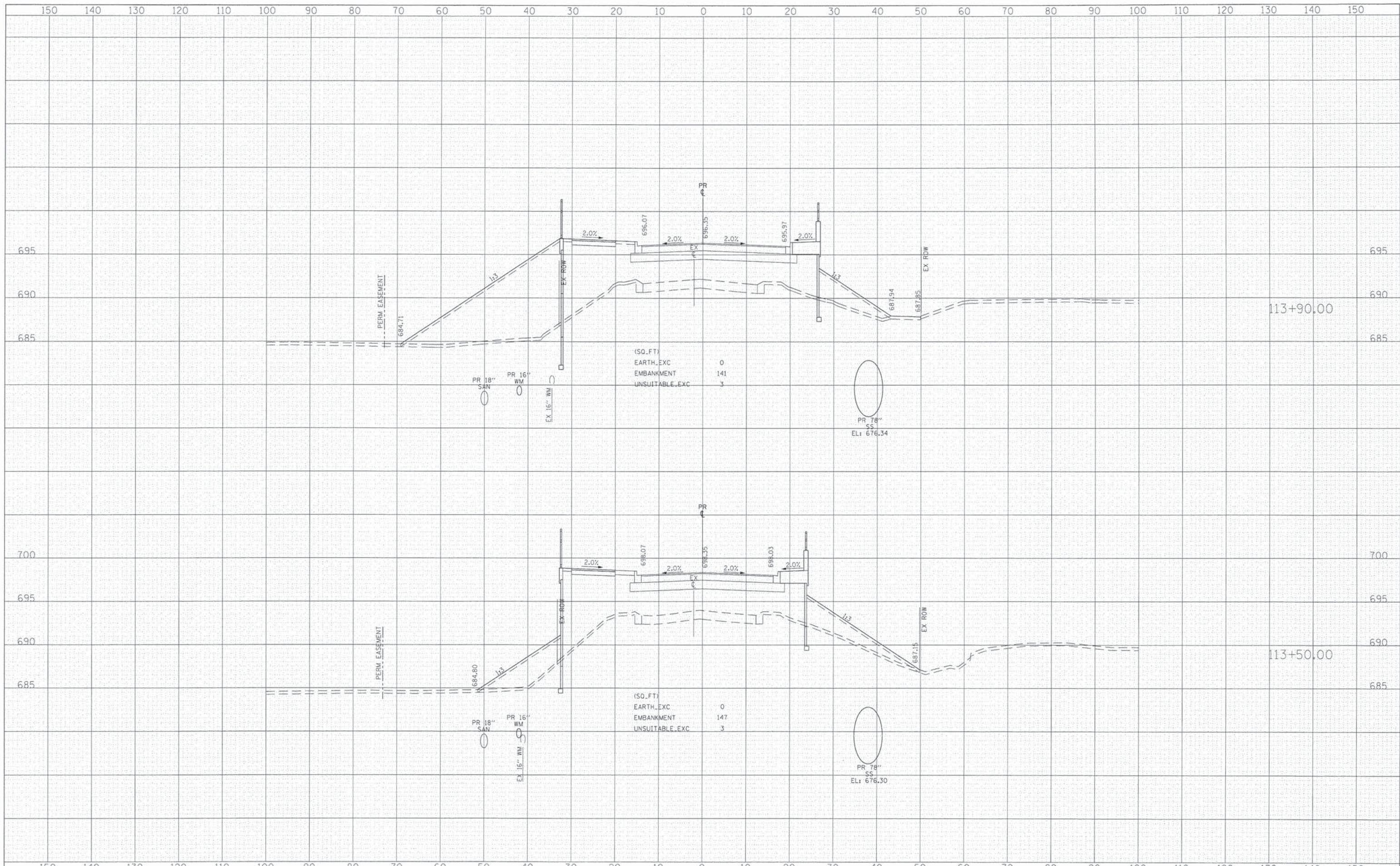
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| F.A.P. RITE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 128 |
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 DEPARTMENT OF TRANSPORTATION**

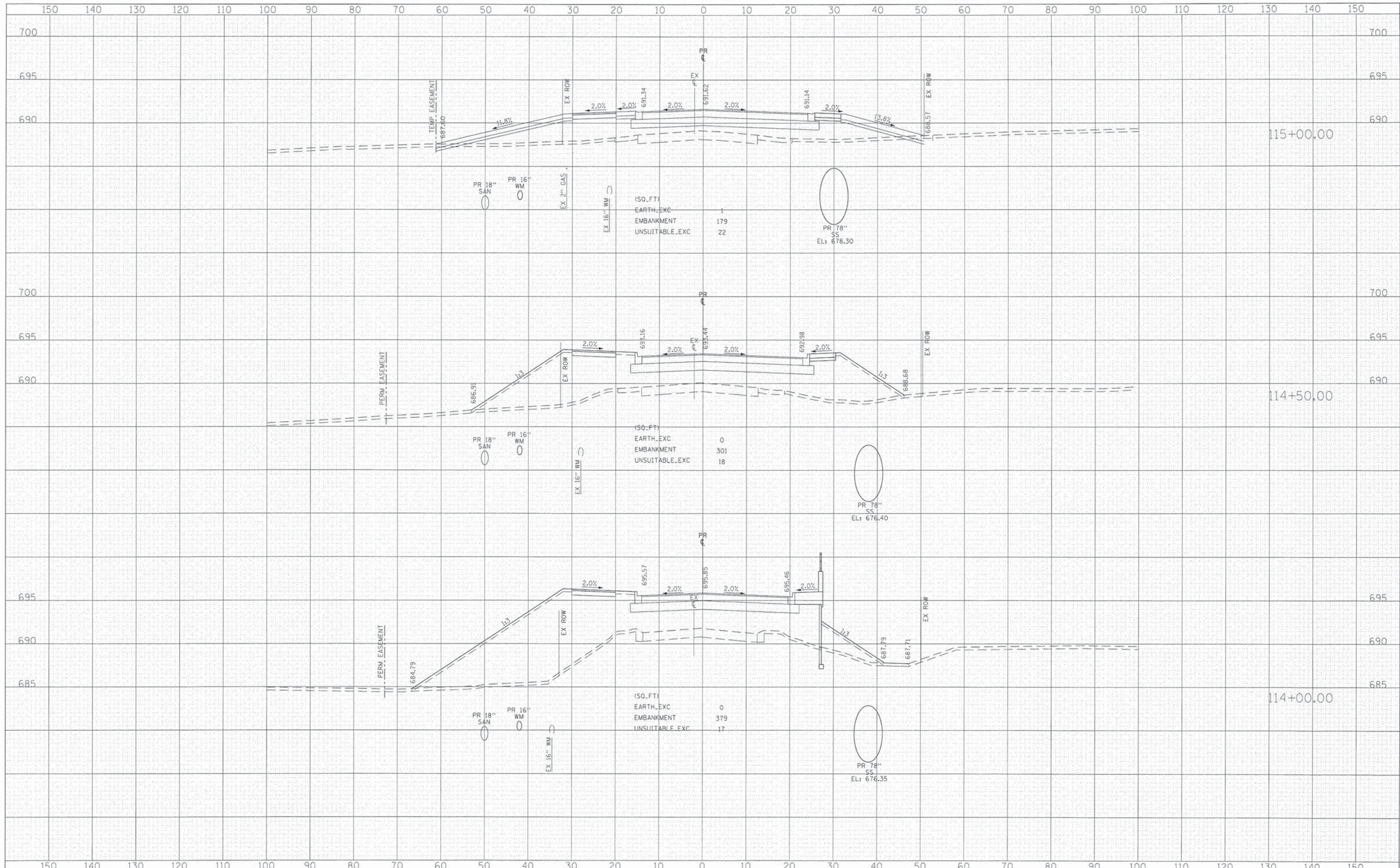
CROSS SECTIONS

SCALE: 10H 5V SHEET NO. 129 OF 136 SHEETS STA. 113+50.00 TO STA. 113+90.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 4087 | 08-00278-00-BR | KANE | 136 | 129 |
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

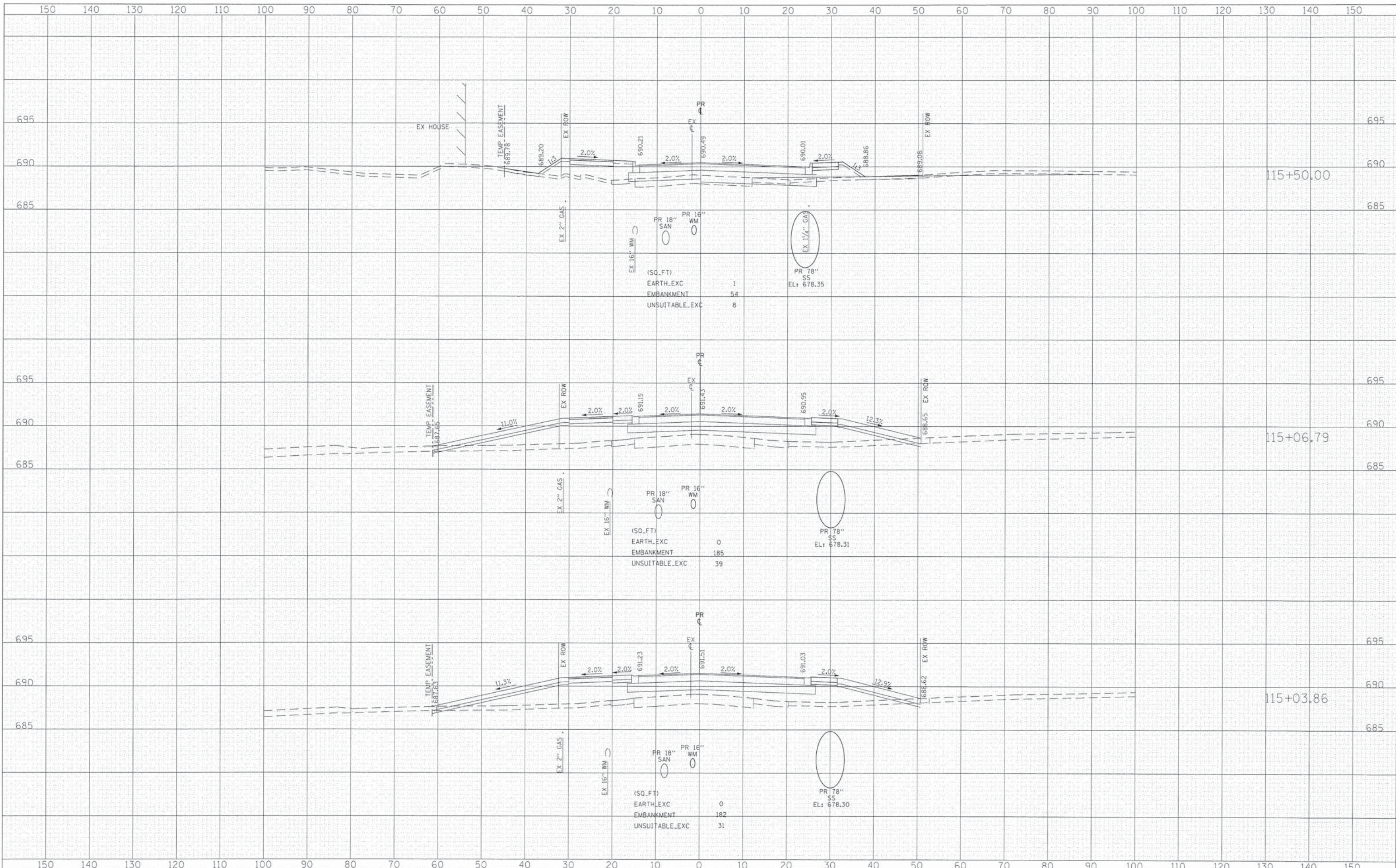
CROSS SECTIONS

SCALE: 10H 5V SHEET NO. 130 OF 136 SHEETS STA. 114+00.00 TO STA. 115+00.00

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 130 |
| | | | CONTRACT NO. 63859 | |
| [ILLINOIS] FED. AID PROJECT | | | | |

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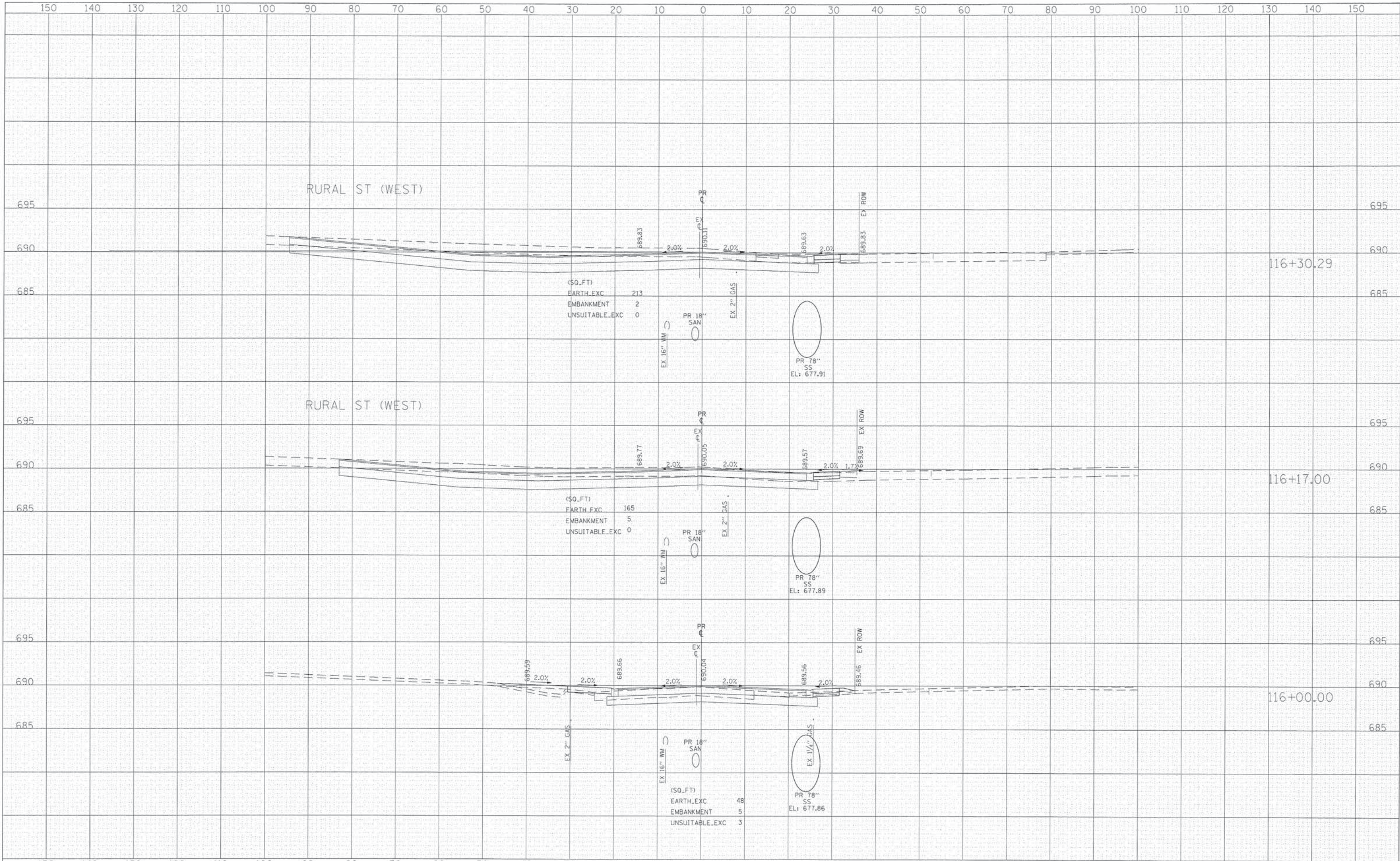
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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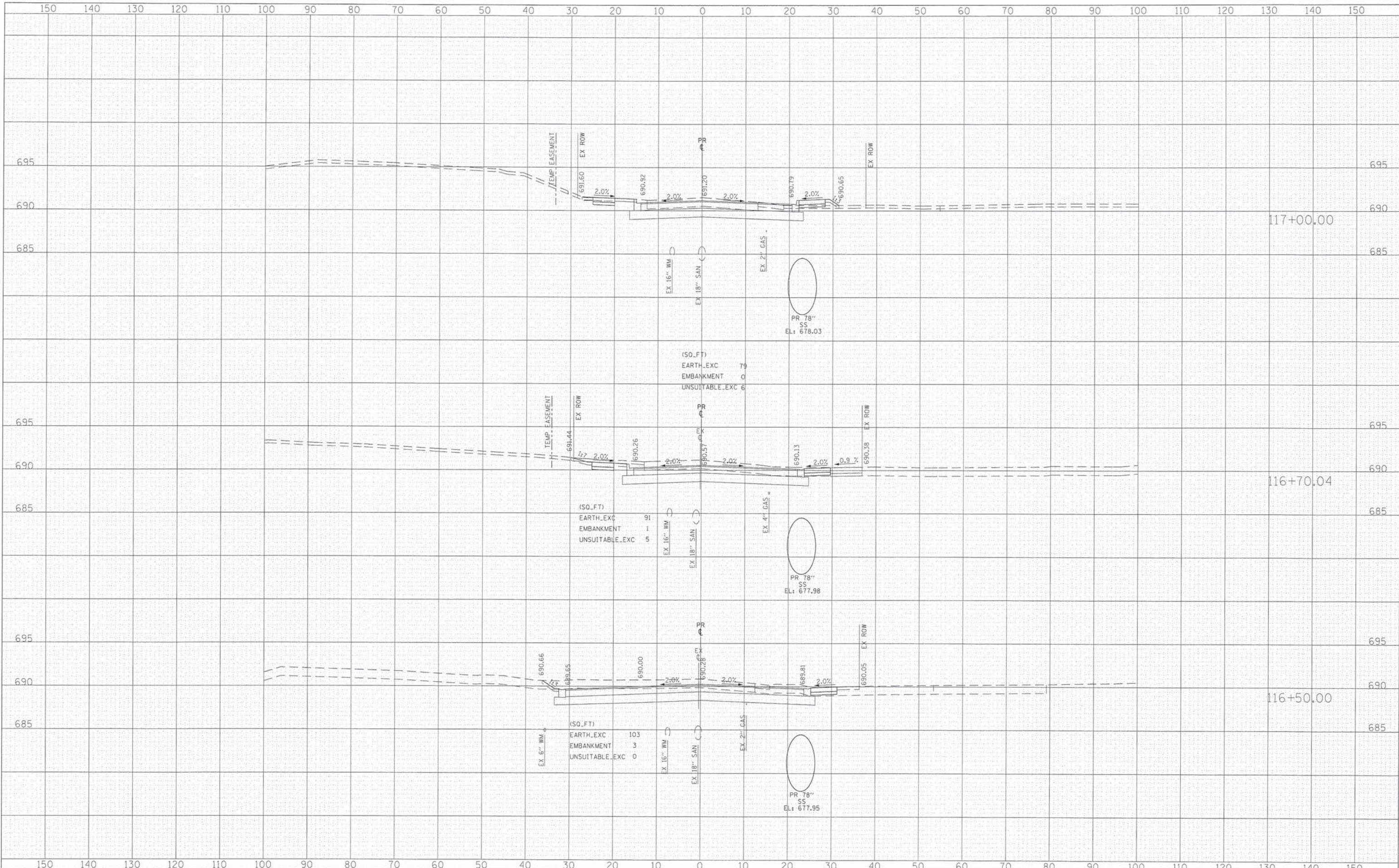
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

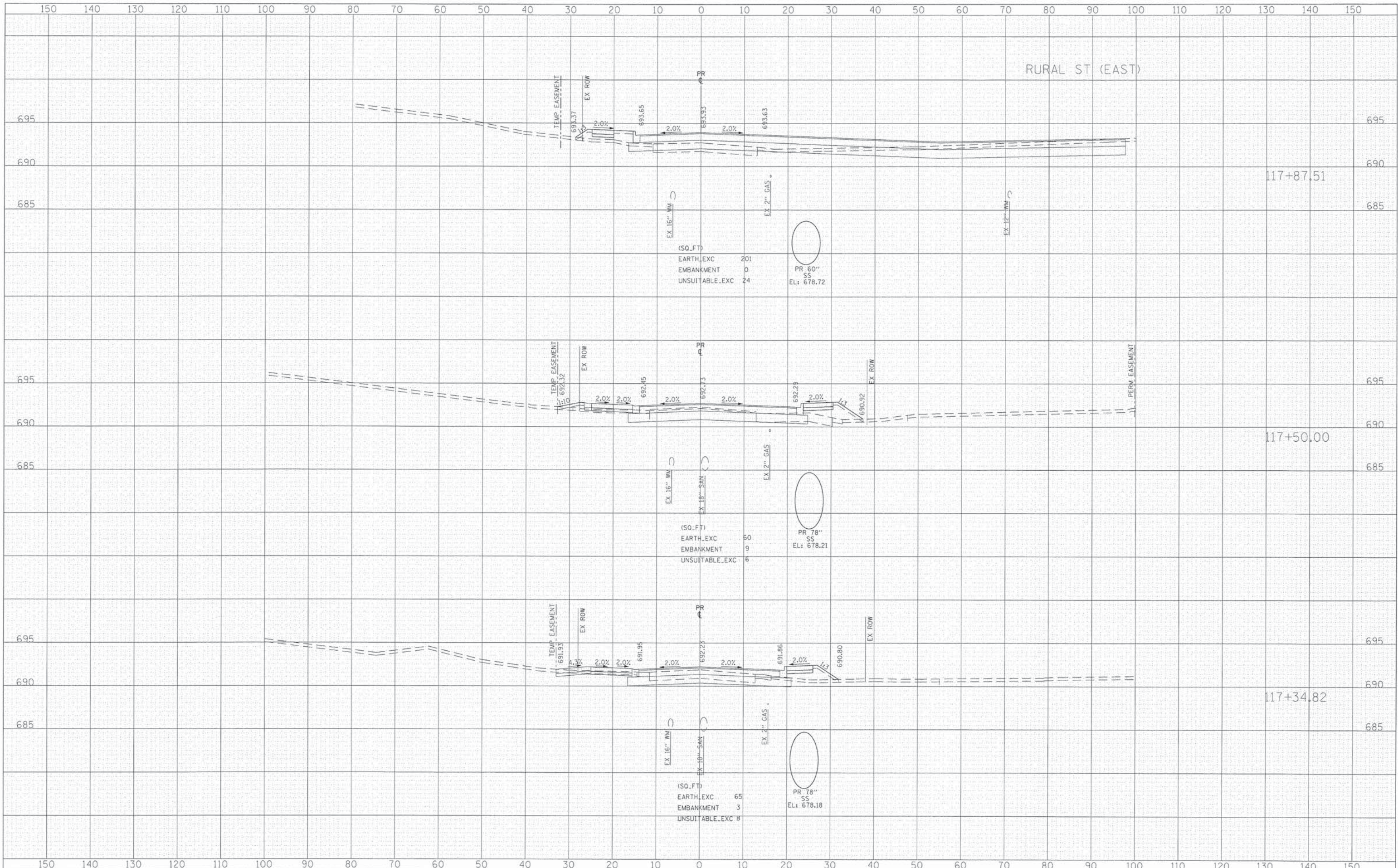
CROSS SECTIONS

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 4087 | 08-00278-00-BR | KANE | 136 | 133 |
| CONTRACT NO. 63859 | | | ILLINOIS FED. AID PROJECT | |

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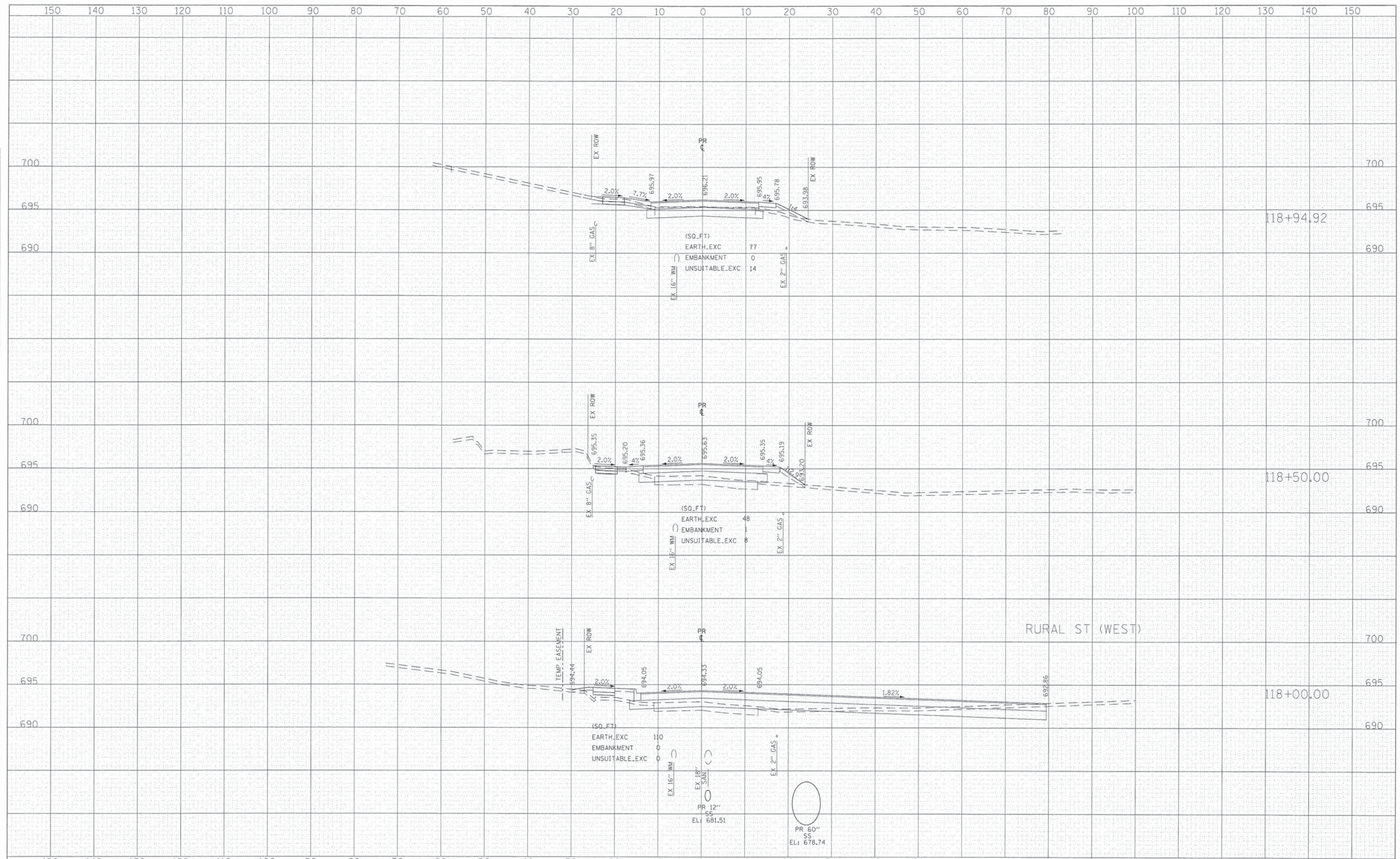
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
SCALE: 10:H 5:V
SHEET NO. 134 OF 136 SHEETS
STA. 117+34.82 TO STA. 117+87.51

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| ILLINOIS FED. AID PROJECT | | | | |

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 10'H 5'V SHEET NO. 135 OF 136 SHEETS STA. 118+00.00 TO STA. 118+94.92

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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