

**EMERGENCY PULL OUT
ROADWAY PLAN
STAGE 1**

EMERGENCY PULL OUT SITE
FOR MOTORISTS CALL 847-705-4228
IL DEPT OF TRANSPORTATION
EMERGENCY CALL 911 OR *999

STAY WITH YOUR DISABLED VEHICLE

EMERGENCY PULL OUT SITE
↑

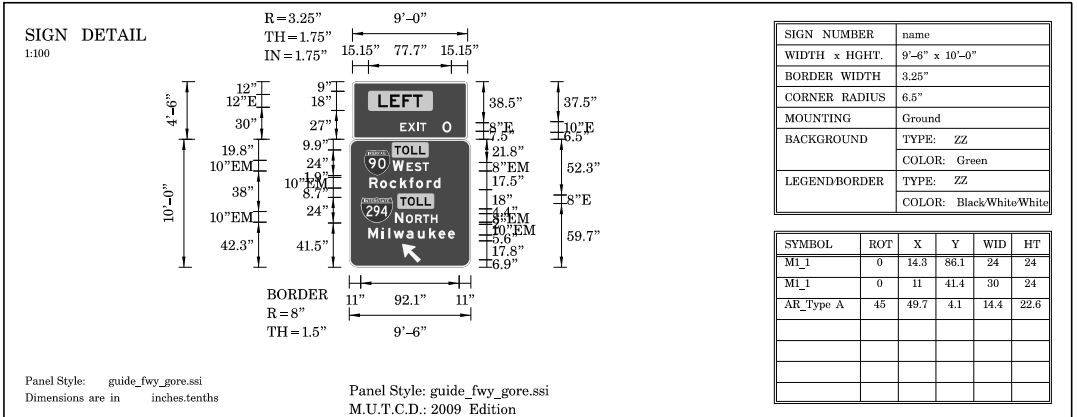
EMERGENCY PULL OUT SITE
1/2 MILE

TEMP INFO SIGN

TEMP INFO SIGN INSTALLED HALF MILE AHEAD

NOTES:

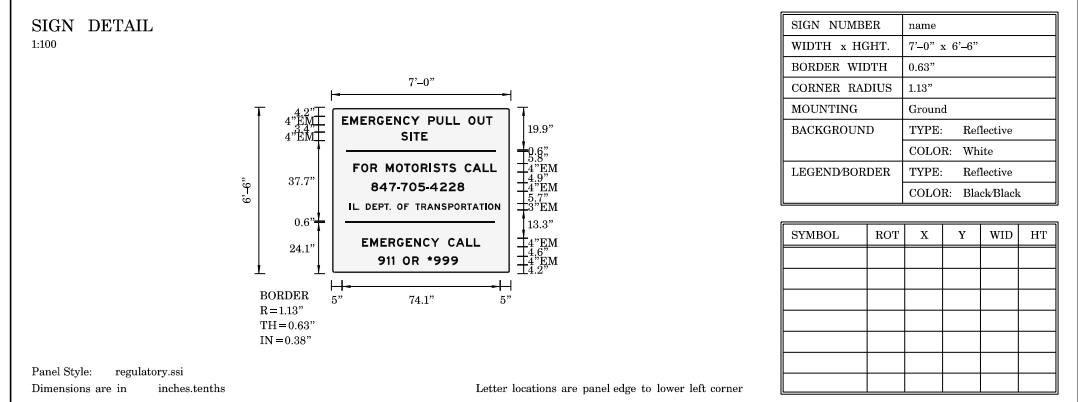
- 1) EMERGENCY PULL OUTS INSTALLED DURING STAGE 1 CONSTRUCTION SHALL BE LOCATED AS SHOWN ON THE PLANS AND SHALL BE APPROVED BY THE ENGINEER.
- 2) EMERGENCY PULL OUT SHALL BE RELOCATED TO AN ADJACENT LOCATION, APPROVED BY THE ENGINEER TO COMPLETE STAGE 1 WORK. RELOCATION OF THE TEMPORARY CONCRETE BARRIER WILL BE PAID AT THE CONTRACT UNIT PRICE FOR "RELOCATE TEMPORARY CONCRETE BARRIER"
- 3) ALL EMERGENCY PULL OUT SIGNS WILL BE PAID AT THE CONTRACT UNIT PRICE FOR "TEMPORARY INFORMATION SIGNS"
- 4) THE COST OF TRAFFIC CONTROL REQUIRED FOR THE INSTALLATION AND RELOCATION OF EMERGENCY PULL OUTS AND WILL NOT BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)"



| | |
|----------------|--------------------------------------|
| SIGN NUMBER | name |
| WIDTH x HIGHT. | 9'-6" x 10'-0" |
| BORDER WIDTH | 3.25" |
| CORNER RADIUS | 6.5" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black/White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|------|------|------|------|
| MI_1 | 0 | 14.3 | 86.1 | 24 | 24 |
| MI_1 | 0 | 11 | 41.4 | 30 | 24 |
| AK_Type A | 45 | 49.7 | 4.1 | 14.4 | 22.6 |

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|------|------|------|------|------|------|--|--|--------|------------|
| L | E | F | T | | | | | | | | | E 2000 |
| 24.4 | 35.5 | 46.9 | 56.8 | | | | | | | | | 41.4 12 |
| E | X | I | T | 0 | | | | | | | | E 2000 |
| 45 | 52.1 | 60.7 | 63.5 | 84.5 | | | | | | | | 47.9 8,10 |
| T | O | L | L | | | | | | | | | E 2000 |
| 42.5 | 49.6 | 58.2 | 65.6 | | | | | | | | | 29 8 |
| W | E | S | T | | | | | | | | | EM 2000 |
| 40.7 | 53.9 | 61.3 | 69 | | | | | | | | | 34.2 10,8 |
| R | o | c | k | f | o | r | d | | | | | EM 2000 |
| 18.9 | 28.8 | 37.8 | 47.5 | 56.2 | 62.6 | 72.5 | 79 | | | | | 66.7 107.5 |
| T | O | L | L | | | | | | | | | E 2000 |
| 47.8 | 54.9 | 63.5 | 70.9 | | | | | | | | | 29 8 |
| N | O | R | T | H | | | | | | | | EM 2000 |
| 42.8 | 53.1 | 61.8 | 69.1 | 76.5 | | | | | | | | 40.1 10,8 |
| M | i | w | a | k | e | | | | | | | EM 2000 |
| 17.9 | 30.6 | 36.6 | 41.5 | 53.7 | 64.3 | 74.9 | 83.7 | 92.5 | | | | 81.2 107.5 |



| | |
|----------------|--|
| SIGN NUMBER | name |
| WIDTH x HIGHT. | 7'-0" x 6'-6" |
| BORDER WIDTH | 0.63" |
| CORNER RADIUS | 1.13" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: Reflective COLOR: White |
| LEGEND/BORDER | TYPE: Reflective COLOR: Black/Black |

| SYMBOL | ROT | X | Y | WID | HT |
|--------|-----|---|---|-----|----|
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| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|--------|-----------|------|------|------|------|------|------|------|------|------|------|---------------------|---------|
| E | M | E | R | G | E | N | C | Y | P | U | L | L | O | U | T | | | | | | | | EM 2000 | |
| 5 | 8.8 | 13.6 | 17.4 | 21.3 | 25.5 | 29.3 | 33.5 | 37.2 | 41.3 | 45.3 | 49.2 | 53.6 | 55.2 | 58.4 | 62.4 | 66.1 | 70.9 | 74.5 | | | | | | 70.4 4 |
| S | I | T | E | | | | | | | | | | | | | | | | | | | | | EM 2000 |
| 32.6 | 36.9 | 38.4 | 42.1 | | | | | | | | | | | | | | | | | | | | | 12.4 4 |
| F | O | R | M | O | T | O | R | I | S | T | S | | C | A | L | L | | | | | | | EM 2000 | |
| 10.2 | 13.9 | 18.2 | 21.4 | 25.4 | 30.1 | 34 | 37.6 | 41.9 | 46 | 47.8 | 51.6 | 55.2 | 58.4 | 62.4 | 66.1 | 70.9 | 74.5 | | | | | | 67.2 4 | |
| 8 | 4 | 7 | - | 7 | 0 | 5 | - | 4 | 2 | 2 | 8 | | | | | | | | | | | | EM 2000 | |
| 18.6 | 22.4 | 26.9 | 30.7 | 32.4 | 36.5 | 40.7 | 44.5 | 46.1 | 50.8 | 54.9 | 59 | | | | | | | | | | | | 43.6 4 | |
| I | L | . | | D | E | P | T | . | O | F | | T | R | A | N | S | P | O | R | T | | | EM 2000 I O N | |
| 8.6 | 10.1 | 12.5 | 13.1 | 16.1 | 19.2 | 22.1 | 24.7 | 27.2 | 27.8 | 30.8 | 34 | 36.3 | 39.3 | 42 | 44.8 | 48.4 | 51.5 | 54.7 | 57.6 | 60.8 | 63.6 | 66.4 | 69.3 72.1 73.4 76.6 | |
| E | M | E | R | G | E | N | C | Y | | C | A | L | L | | | | | | | | | | EM 2000 | |
| 14.3 | 18.1 | 22.9 | 26.7 | 30.7 | 34.9 | 38.7 | 42.9 | 46.6 | 50.6 | 54.6 | 58.3 | 63.1 | 66.7 | | | | | | | | | | 55.4 4 | |
| 9 | 1 | 1 | | O | R | * | 9 | 9 | 9 | | | | | | | | | | | | | | EM 2000 | |
| 21.9 | 26 | 28.2 | 29.4 | 33.4 | 37.8 | 41 | 45 | 48 | 52 | 56 | | | | | | | | | | | | | 37.4 4 | |

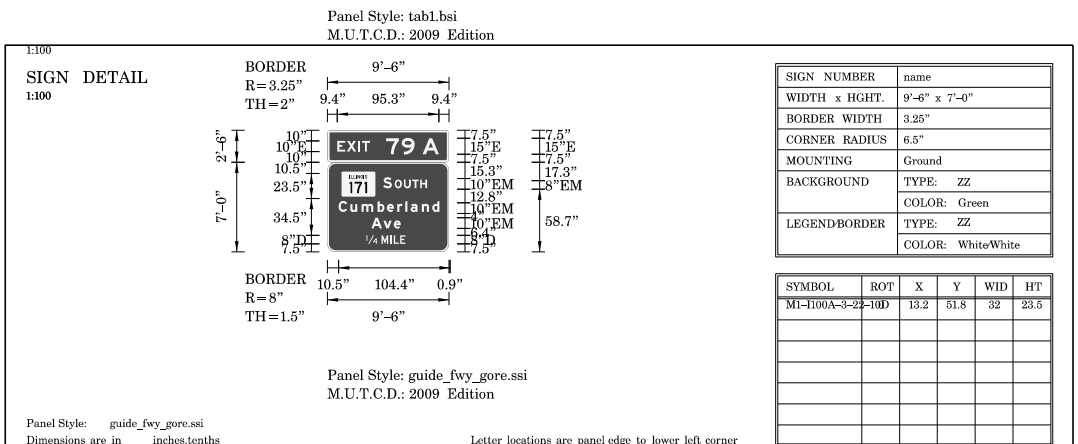
| | | | |
|---|-----------------------|-----------------|-------------|
| exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY | USER NAME = #USER* | DESIGNED MM | REVISED - - |
| | PLOT SCALE = #SCALE* | DRAWN MM | REVISED - |
| | PLOT DATE = 1-16-2018 | CHECKED KA | REVISED - |
| | | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

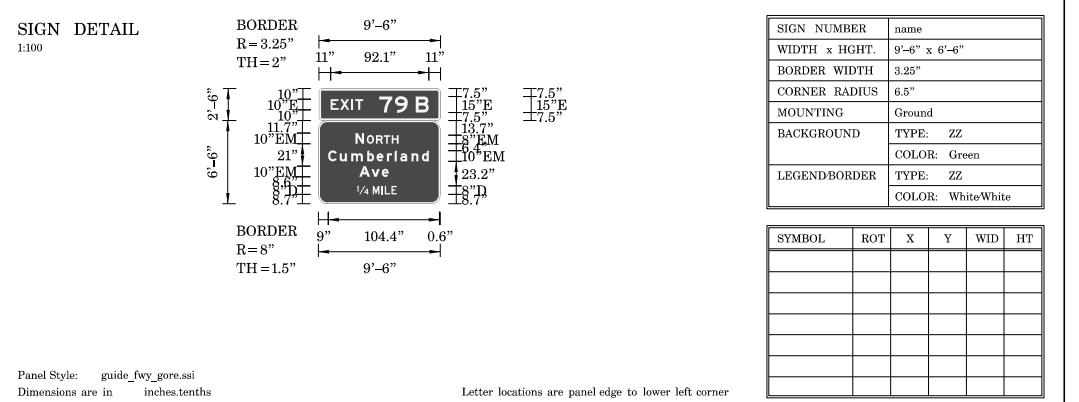
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
SUGGESTED STAGING AND TRAFFIC CONTROL
TEMPORARY INFORMATION SIGN**

SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

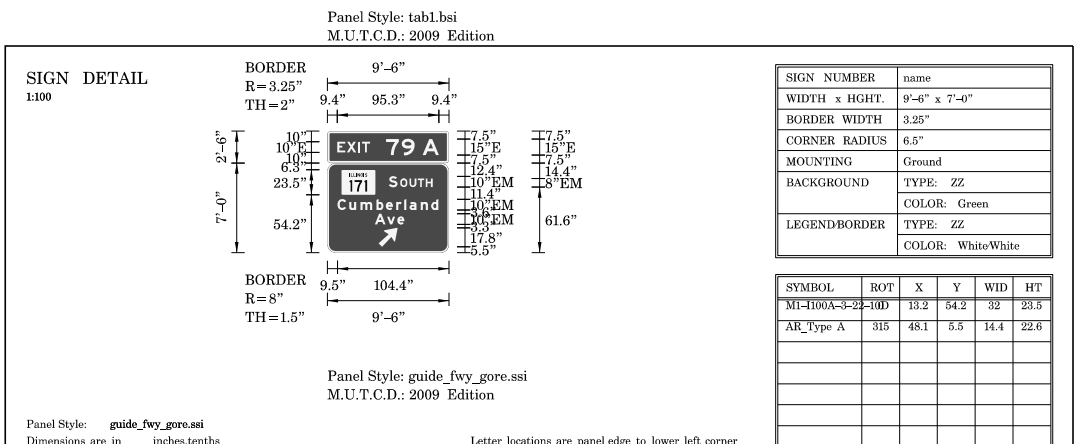
| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 202 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



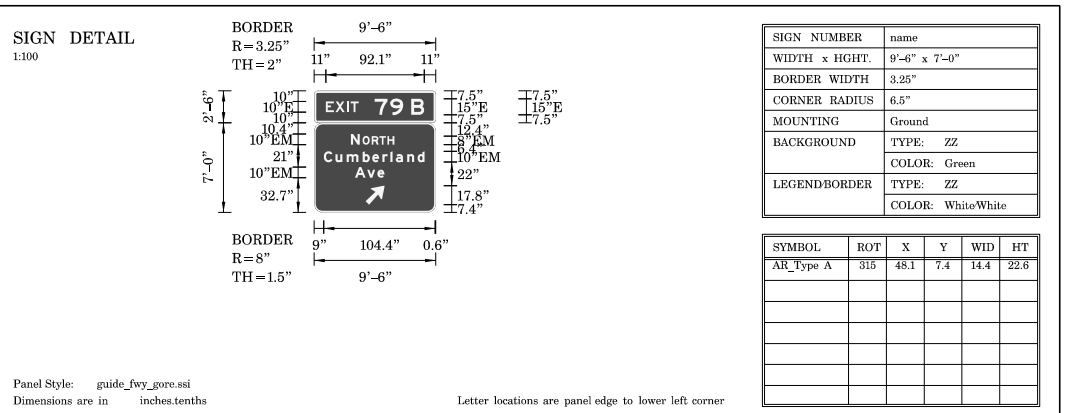
| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|------|------|------|------|----|------|------|--------|-----------|
| E | X | I | T | 7 | 9 | A | | | | | E 2000 |
| 9.4 | 18.3 | 29 | 32.5 | 55 | 69.7 | 89.3 | | | | 95.3 | 10.15 |
| S | O | U | T | H | | | | | | | EM 2000 |
| 52.4 | 63.1 | 71.7 | 79.7 | 87 | | | | | | 41.1 | 10.8 |
| C | u | m | b | e | r | l | a | n | d | | EM 2000 |
| 10.5 | 21.4 | 32 | 47 | 55.8 | 65.5 | 72.9 | 78 | 88.6 | 98.3 | 104.9 | 10.7.5 |
| A | v | e | | | | | | | | | EM 2000 |
| 41.2 | 52.6 | 62.3 | | | | | | | | | 10.7.5 |
| M | I | L | E | | | | | | | | D 2000 |
| 36.2 | 50.8 | 59 | 62.2 | 68.3 | | | | | | | 8 |



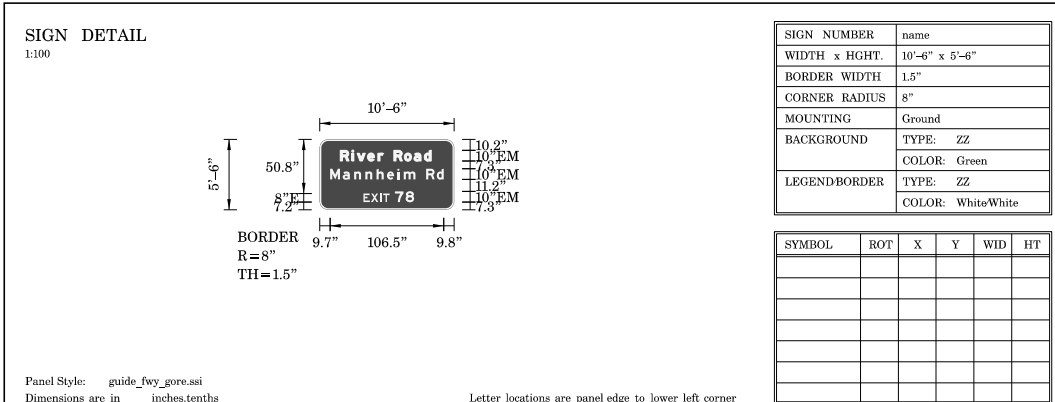
| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|------|------|------|------|------|------|------|--------|-----------|
| E | X | I | T | 7 | 9 | B | | | | | E 2000 |
| 11 | 19.9 | 30.6 | 34.1 | 56.6 | 71.3 | 90.9 | | | | 92.1 | 10.15 |
| N | O | R | T | H | | | | | | | EM 2000 |
| 34.5 | 45.2 | 53.9 | 61.2 | 68.6 | | | | | | 40.6 | 10.8 |
| C | u | m | b | e | r | l | a | n | d | | EM 2000 |
| 9 | 19.9 | 30.5 | 45.5 | 54.3 | 64 | 71.4 | 76.5 | 87.1 | 96.8 | 103.4 | 10.7.5 |
| A | v | e | | | | | | | | | EM 2000 |
| 38.2 | 49.6 | 59.3 | | | | | | | | | 10.7.5 |
| M | I | L | E | | | | | | | | D 2000 |
| 36.3 | 50.8 | 59 | 62.2 | 68.3 | | | | | | | 8 |



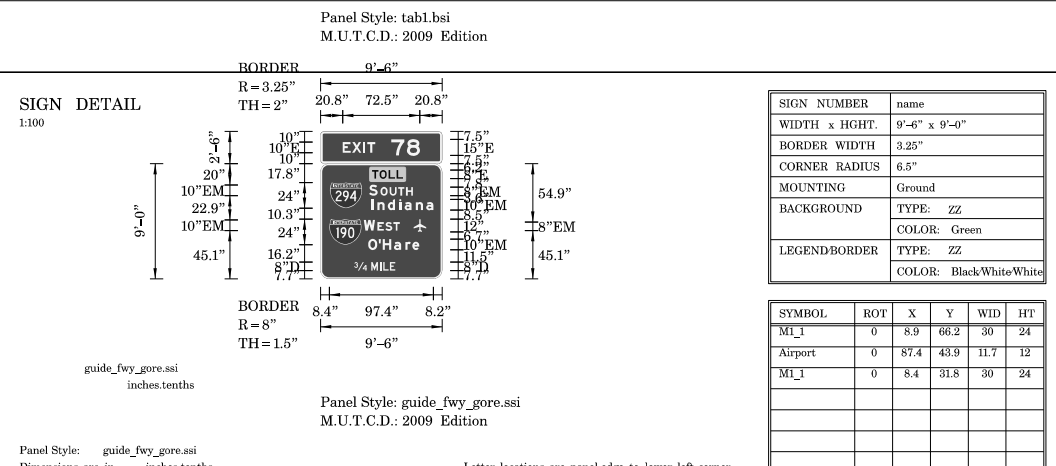
| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|------|------|------|------|----|------|------|--------|-----------|
| E | X | I | T | 7 | 9 | A | | | | | E 2000 |
| 9.4 | 18.3 | 29 | 32.5 | 55 | 69.7 | 89.3 | | | | 95.3 | 10.15 |
| S | O | U | T | H | | | | | | | EM 2000 |
| 57.6 | 68.3 | 76.9 | 84.9 | 92.2 | | | | | | 41.1 | 10.8 |
| C | u | m | b | e | r | l | a | n | d | | EM 2000 |
| 9.5 | 20.4 | 31 | 46 | 54.8 | 64.5 | 71.9 | 77 | 87.6 | 97.3 | 103.9 | 10.7.5 |
| A | v | e | | | | | | | | | EM 2000 |
| 44.5 | 55.9 | 65.6 | | | | | | | | | 10.7.5 |



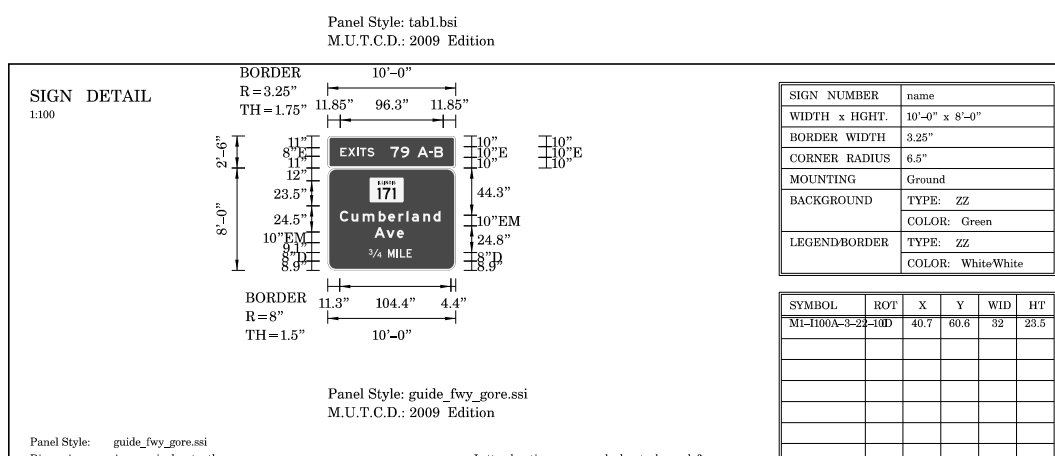
| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|------|------|------|------|------|------|------|--------|-----------|
| E | X | I | T | 7 | 9 | B | | | | | E 2000 |
| 11 | 19.9 | 30.6 | 34.1 | 56.6 | 71.3 | 90.9 | | | | 92.1 | 10.15 |
| N | O | R | T | H | | | | | | | EM 2000 |
| 34.5 | 45.2 | 53.9 | 61.2 | 68.6 | | | | | | 40.5 | 10.8 |
| C | u | m | b | e | r | l | a | n | d | | EM 2000 |
| 9 | 19.9 | 30.5 | 45.5 | 54.3 | 64 | 71.4 | 76.5 | 87.1 | 96.8 | 103.4 | 10.7.5 |
| A | v | e | | | | | | | | | EM 2000 |
| 38.2 | 49.6 | 59.3 | | | | | | | | | 10.7.5 |



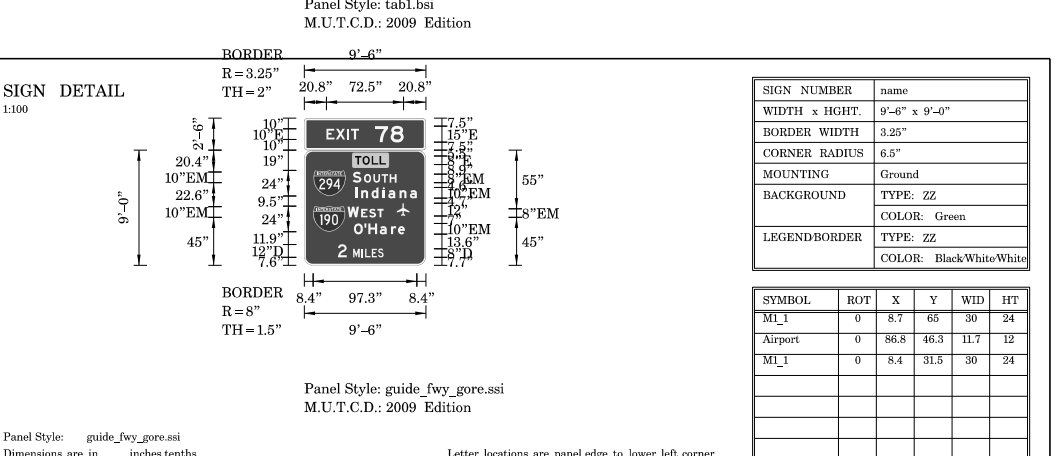
| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | |
|----------------------|------|------|------|------|------|------|------|------|------|-------|--------|----------------|-------|
| R | i | v | e | r | R | o | a | d | | | | EM 2000 | |
| 19.3 | 30.1 | 35 | 44.7 | 54.4 | 59.4 | 69.4 | 79.3 | 88.3 | 98 | | | 85.3 | 107.5 |
| M | a | n | n | h | e | i | m | R | d | | | EM 2000 | |
| 9.7 | 21.5 | 32.1 | 42.7 | 53.3 | 63 | 72.7 | 78.7 | 89.7 | 99.7 | 109.6 | | 106.5 | 107.5 |
| E | X | I | T | 7 | S | | | | | | | E 2000,EM 2000 | |
| 40.9 | 48 | 56.6 | 59.4 | 70.4 | 80.5 | | | | | | | 47.7 | 8,10 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | |
|----------------------|------|------|------|------|------|------|--|--|--|--|--------|------------|-------|
| E | X | I | T | 7 | S | | | | | | | E 2000 | |
| 20.8 | 29.7 | 40.4 | 43.9 | 66.4 | 81.1 | | | | | | | 72.5 | 10,15 |
| T | O | L | L | | | | | | | | | E 2000 | |
| 48.3 | 55.4 | 64 | 71.3 | | | | | | | | | 29 | 8 |
| S | O | U | T | H | | | | | | | | EM 2000 | |
| 45.5 | 56.2 | 64.9 | 72.8 | 80.2 | | | | | | | | 41.1 | 10,8 |
| I | n | d | i | a | n | a | | | | | | EM 2000 | |
| 48.1 | 53.5 | 63.2 | 73.8 | 78.9 | 89.5 | 99.2 | | | | | | 57.7 | 107.5 |
| W | E | S | T | | | | | | | | | EM 2000 | |
| 40.6 | 53.4 | 60.8 | 68.5 | | | | | | | | | 33.8 | 10,8 |
| O | H | a | r | e | | | | | | | | EM 2000 | |
| 44.8 | 54.6 | 58.4 | 69 | 79.6 | 86.1 | | | | | | | 47.9 | 107.5 |
| 34 | M | I | L | E | | | | | | | | D 2000 | |
| 31.6 | 47.6 | 55.7 | 58.9 | 65.1 | | | | | | | | 38.5 | 8 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

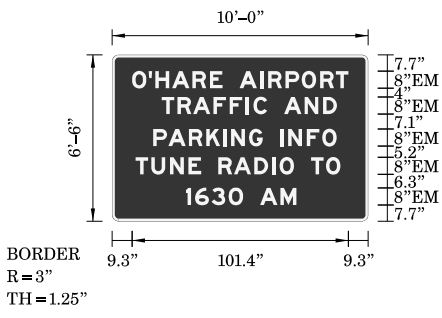


| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | |
|----------------------|------|------|------|------|------|------|------|------|-------|-------|--------|------------|-------|
| E | X | I | T | S | 7 | 9 | A | - | B | | | E 2000 | |
| 11.8 | 19 | 27.5 | 30.3 | 37.2 | 58.7 | 68.5 | 84.1 | 95 | 100.1 | | | 96.3 | 8,10 |
| C | u | m | b | e | r | l | a | n | d | | | EM 2000 | |
| 11.3 | 22.2 | 32.8 | 47.8 | 56.6 | 66.3 | 73.7 | 78.8 | 89.4 | 99.1 | 105.7 | | 104.4 | 107.5 |
| A | v | e | | | | | | | | | | EM 2000 | |
| 43.7 | 55.1 | 64.8 | | | | | | | | | | 27.7 | 107.5 |
| 34 | M | I | L | E | | | | | | | | D 2000 | |
| 38.4 | 56.4 | 64.6 | 67.8 | 74 | | | | | | | | 40.5 | 8 |
| | | | | | | | | | | | | | |
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| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | |
|----------------------|------|------|------|------|------|----|--|--|--|--|--------|------------|-------|
| E | X | I | T | 7 | S | | | | | | | E 2000 | |
| 20.8 | 29.7 | 40.4 | 43.9 | 66.4 | 81.1 | | | | | | | 72.5 | 10,15 |
| T | O | L | L | | | | | | | | | E 2000 | |
| 47.6 | 54.7 | 63.3 | 70.6 | | | | | | | | | 29 | 8 |
| S | O | U | T | H | | | | | | | | EM 2000 | |
| 45.4 | 56.1 | 64.7 | 72.7 | 80 | | | | | | | | 41.1 | 10,8 |
| I | n | d | i | a | n | a | | | | | | EM 2000 | |
| 47.9 | 53.3 | 63 | 73.6 | 78.7 | 89.3 | 99 | | | | | | 57.7 | 107.5 |
| W | E | S | T | | | | | | | | | EM 2000 | |
| 40.6 | 53.4 | 60.8 | 68.5 | | | | | | | | | 33.8 | 10,8 |
| O | H | a | r | e | | | | | | | | EM 2000 | |
| 46.6 | 56.4 | 60.2 | 70.8 | 81.4 | 87.9 | | | | | | | 47.9 | 107.5 |
| 2 | M | I | L | E | S | | | | | | | D 2000 | |
| 31.6 | 45.7 | 53.9 | 57.1 | 63.3 | 69 | | | | | | | 42.9 | 12,8 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

SIGN DETAIL
1:100



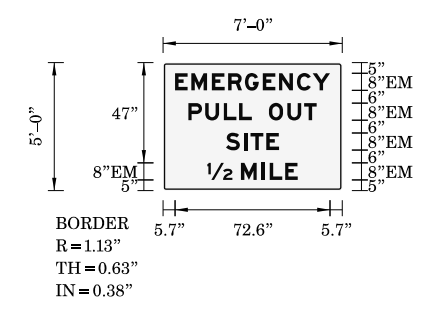
| | |
|---------------|--------------------|
| SIGN NUMBER | name |
| WIDTH x HGHT. | 10'-0" x 6'-6" |
| BORDER WIDTH | 1.25" |
| CORNER RADIUS | 3" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: Reflective |
| | COLOR: Blue |
| LEGEND/BORDER | TYPE: Reflective |
| | COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|--------|-----|---|---|-----|----|
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Panel Style: guide_con_general_services.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

| LETTER POSITIONS (X) | | | | | | | | | | | | | LENGTH | SERIESIZE | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|-------|---|
| O | 9.3 | 17.1 | 20.2 | 28.1 | 37.6 | 45.8 | 51.7 | 59.7 | 69.2 | 73 | 81.2 | 88.8 | 97.4 | 104.8 | 101.4 | 8 |
| T | 23.2 | 30.6 | 37.9 | 47.4 | 55 | 62.6 | 66.2 | 72.6 | 80.6 | 90.2 | 98.9 | | | | 82.2 | 8 |
| P | 19.3 | 26.4 | 35.9 | 44.1 | 51.9 | 55.7 | 64.1 | 70.6 | 78.6 | 82.5 | 91.2 | 98.5 | | | 85.9 | 8 |
| T | 11 | 18.3 | 27 | 35.8 | 41.7 | 49.7 | 57 | 66.6 | 75 | 78.5 | 85.2 | 93.2 | 100.2 | | 96 | 8 |
| 1 | 34.5 | 38.8 | 46.5 | 54.6 | 61.3 | 69.3 | 78.8 | | | | | | | | 51.8 | 8 |

SIGN DETAIL
1:100



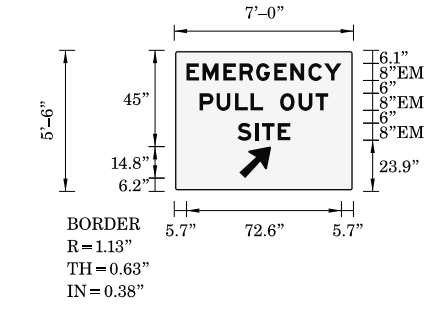
| | |
|---------------|--------------------|
| SIGN NUMBER | name |
| WIDTH x HGHT. | 7'-0" x 5'-0" |
| BORDER WIDTH | 0.63" |
| CORNER RADIUS | 1.13" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: Reflective |
| | COLOR: White |
| LEGEND/BORDER | TYPE: Reflective |
| | COLOR: Black/Black |

| SYMBOL | ROT | X | Y | WID | HT |
|--------|-----|---|---|-----|----|
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Panel Style: regulatory.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

| LETTER POSITIONS (X) | | | | | | | | | | | | | LENGTH | SERIESIZE | | |
|----------------------|------|------|------|------|------|------|------|------|------|--|--|--|--------|-----------|------|---|
| E | 5.7 | 13.3 | 23 | 30.6 | 38.4 | 46.8 | 54.4 | 62.8 | 70.2 | | | | | | 72.6 | 8 |
| P | 11.9 | 19.8 | 28.5 | 35.7 | 41.6 | 49.6 | 58.3 | 66.2 | | | | | | | 60.2 | 8 |
| S | 29.6 | 38.1 | 41.1 | 48.5 | | | | | | | | | | | 24.8 | 8 |
| 1 | 20.8 | 36.5 | 46.2 | 50.1 | 57.3 | | | | | | | | | | 42.4 | 8 |

SIGN DETAIL
1:100



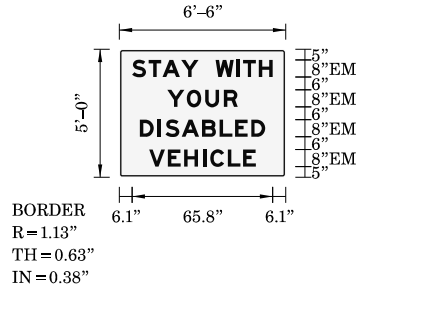
| | |
|---------------|--------------------|
| SIGN NUMBER | name |
| WIDTH x HGHT. | 7'-0" x 5'-6" |
| BORDER WIDTH | 0.63" |
| CORNER RADIUS | 1.13" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: Reflective |
| | COLOR: White |
| LEGEND/BORDER | TYPE: Reflective |
| | COLOR: Black/Black |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|------|-----|-----|------|
| AR_Type A | 315 | 30.5 | 6.1 | 12 | 18.8 |
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Panel Style: regulatory.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

| LETTER POSITIONS (X) | | | | | | | | | | | | | LENGTH | SERIESIZE | | |
|----------------------|------|------|------|------|------|------|------|------|------|--|--|--|--------|-----------|------|---|
| E | 5.7 | 13.3 | 23 | 30.6 | 38.4 | 46.8 | 54.4 | 62.8 | 70.2 | | | | | | 72.6 | 8 |
| P | 11.9 | 19.8 | 28.5 | 35.7 | 41.6 | 49.6 | 58.3 | 66.2 | | | | | | | 60.2 | 8 |
| S | 29.6 | 38.1 | 41.1 | 48.5 | | | | | | | | | | | 24.8 | 8 |

SIGN DETAIL
1:100



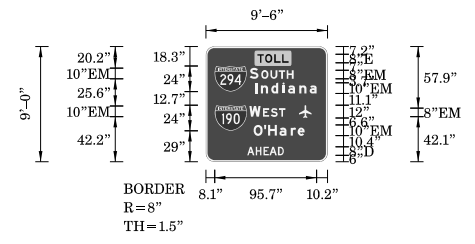
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|---------------|--------------------|
| SIGN NUMBER | name |
| WIDTH x HGHT. | 6'-6" x 5'-0" |
| BORDER WIDTH | 0.63" |
| CORNER RADIUS | 1.13" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: Reflective |
| | COLOR: White |
| LEGEND/BORDER | TYPE: Reflective |
| | COLOR: Black/Black |

| SYMBOL | ROT | X | Y | WID | HT |
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Panel Style: regulatory.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

| LETTER POSITIONS (X) | | | | | | | | | | | | | LENGTH | SERIESIZE | | |
|----------------------|------|------|------|------|------|------|------|------|------|--|--|--|--------|-----------|------|---|
| S | 6.1 | 13.8 | 20.3 | 29 | 37.1 | 45.1 | 55 | 58.1 | 65.4 | | | | | | 65.8 | 8 |
| Y | 22.5 | 31.7 | 40.3 | 49 | | | | | | | | | | | 33 | 8 |
| D | 9.6 | 18 | 21.6 | 29.3 | 38.8 | 47.1 | 54.3 | 61.9 | | | | | | | 58.7 | 8 |
| V | 14 | 22.8 | 30.4 | 39.1 | 42.6 | 50.9 | 58.1 | | | | | | | | 50 | 8 |

SIGN DETAIL
1:100



Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_gore.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

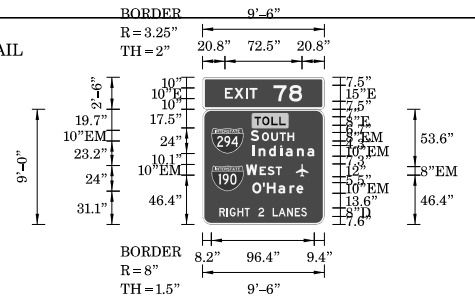
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|----------------|--------------------------------------|
| SIGN NUMBER | name |
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| BORDER WIDTH | 1.5" |
| CORNER RADIUS | 8" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black/White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|---------|-----|------|------|------|----|
| MI_1 | 0 | 8.1 | 65.7 | 30 | 24 |
| Airport | 0 | 87.4 | 41 | 11.7 | 12 |
| MI_1 | 0 | 8.4 | 28.9 | 30 | 24 |

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | |
|----------------------|------|------|------|------|------|------|--|--|--|--|--------|------------|---------|
| T | O | L | L | | | | | | | | | E 2000 | |
| 48.4 | 55.5 | 64 | 71.4 | | | | | | | | | 29 | 8 |
| S | O | U | T | H | | | | | | | | | EM 2000 |
| 41.1 | 51.8 | 60.5 | 68.4 | 75.7 | | | | | | | | 41.1 | 10.8 |
| I | n | d | i | a | n | a | | | | | | | EM 2000 |
| 46.2 | 51.6 | 61.3 | 71.9 | 77 | 87.6 | 97.3 | | | | | | 57.7 | 107.5 |
| W | E | S | T | | | | | | | | | | EM 2000 |
| 40.6 | 53.4 | 60.8 | 68.5 | | | | | | | | | 33.8 | 10.8 |
| O | ' | H | a | r | e | | | | | | | | EM 2000 |
| 44.7 | 54.5 | 58.3 | 68.9 | 79.5 | 86 | | | | | | | 47.9 | 107.5 |
| A | H | E | A | D | | | | | | | | | D 2000 |
| 38.7 | 46.7 | 54 | 59.6 | 67.6 | | | | | | | | 34.4 | 8 |

Panel Style: tabLbsi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100



Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_gore.ssi
Dimensions are in inches.tenths

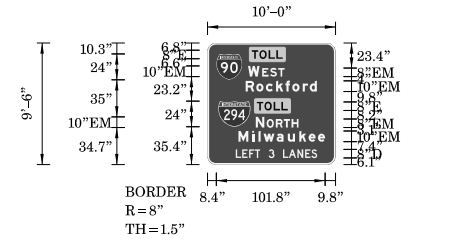
Letter locations are panel edge to lower left corner

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|----------------|--------------------------------------|
| SIGN NUMBER | name |
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| CORNER RADIUS | 6.5" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black/White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|---------|-----|------|------|------|----|
| MI_1 | 0 | 8.2 | 66.5 | 30 | 24 |
| Airport | 0 | 87.4 | 44.7 | 11.7 | 12 |
| MI_1 | 0 | 8.4 | 31.1 | 30 | 24 |

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|--------|------------|--------|---------|
| E | X | I | T | 7 | S | | | | | | | | E 2000 | |
| 20.8 | 29.7 | 40.4 | 43.9 | 66.4 | 81.1 | | | | | | | | 72.5 | 10,15 |
| T | O | L | L | | | | | | | | | | | E 2000 |
| 48.7 | 55.9 | 64.4 | 71.8 | | | | | | | | | | 29 | 8 |
| S | O | U | T | H | | | | | | | | | | EM 2000 |
| 44.8 | 55.5 | 64.2 | 72.1 | 79.5 | | | | | | | | | 41.1 | 10,8 |
| I | n | d | i | a | n | a | | | | | | | | EM 2000 |
| 46.9 | 52.3 | 62 | 72.6 | 77.7 | 88.3 | 98 | | | | | | | 57.7 | 107.5 |
| W | E | S | T | | | | | | | | | | | EM 2000 |
| 40.6 | 53.4 | 60.8 | 68.5 | | | | | | | | | | 33.8 | 10,8 |
| O | ' | H | a | r | e | | | | | | | | | EM 2000 |
| 46.6 | 56.4 | 60.2 | 70.8 | 81.4 | 87.9 | | | | | | | | 47.9 | 107.5 |
| R | I | G | H | T | 2 | L | A | N | E | S | | | | D 2000 |
| 15.6 | 22.4 | 25.4 | 32.6 | 39.3 | 44.2 | 52.2 | 57.7 | 65.7 | 71.1 | 79.1 | 86.5 | 92.2 | 82.1 | 8 |

SIGN DETAIL
1:100



Panel Style: guide_fwy_gore.ssi
M.U.T.C.D.: 2009 Edition

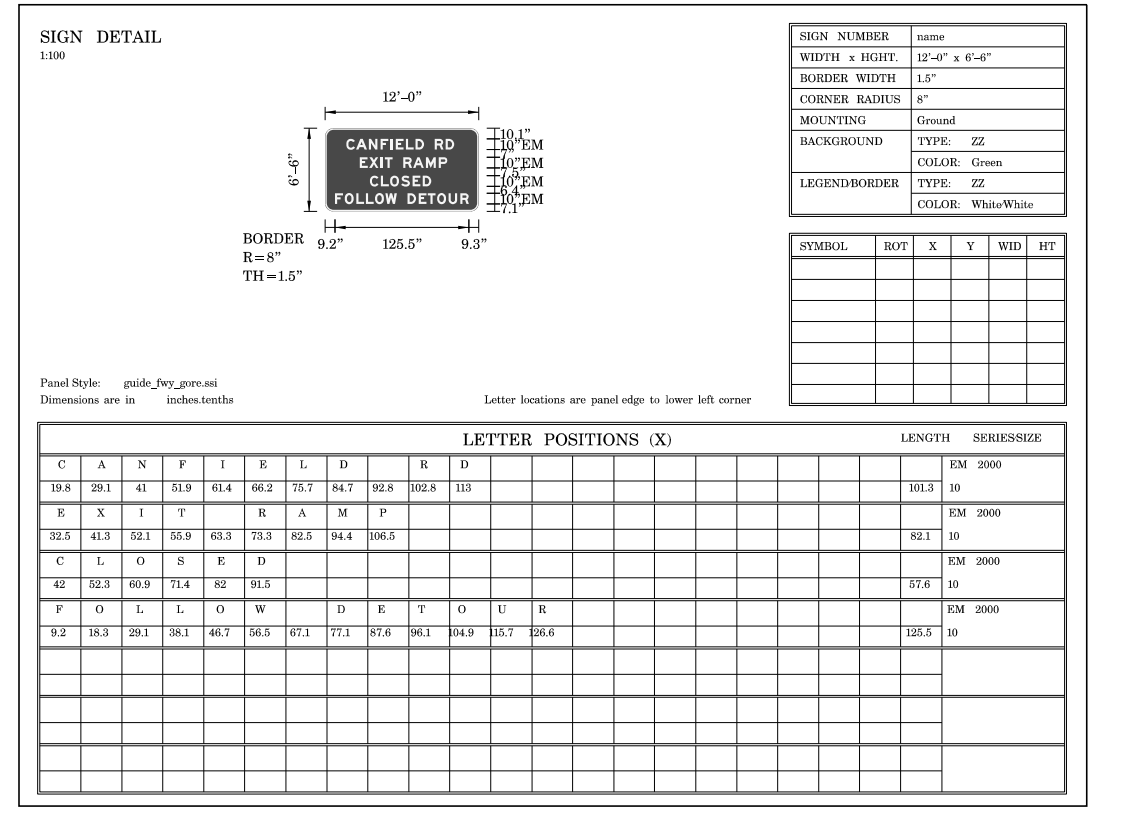
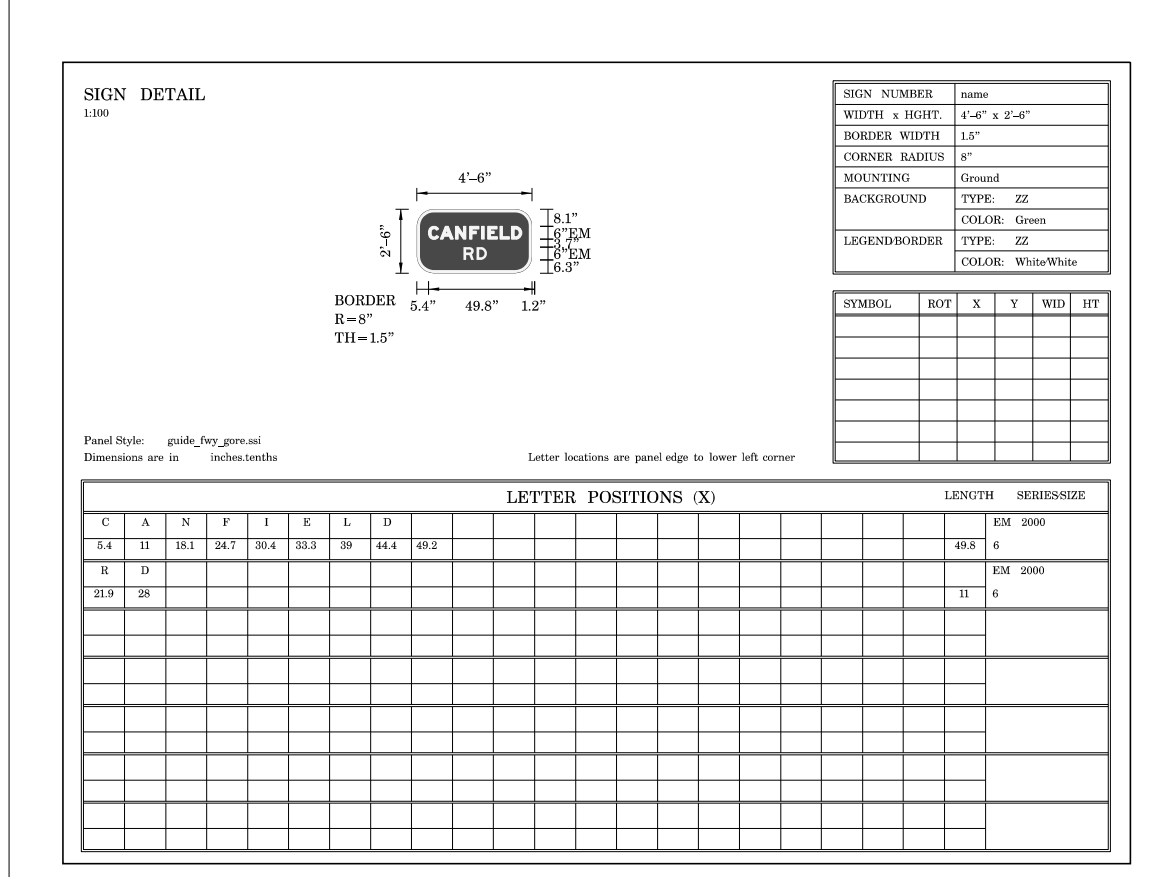
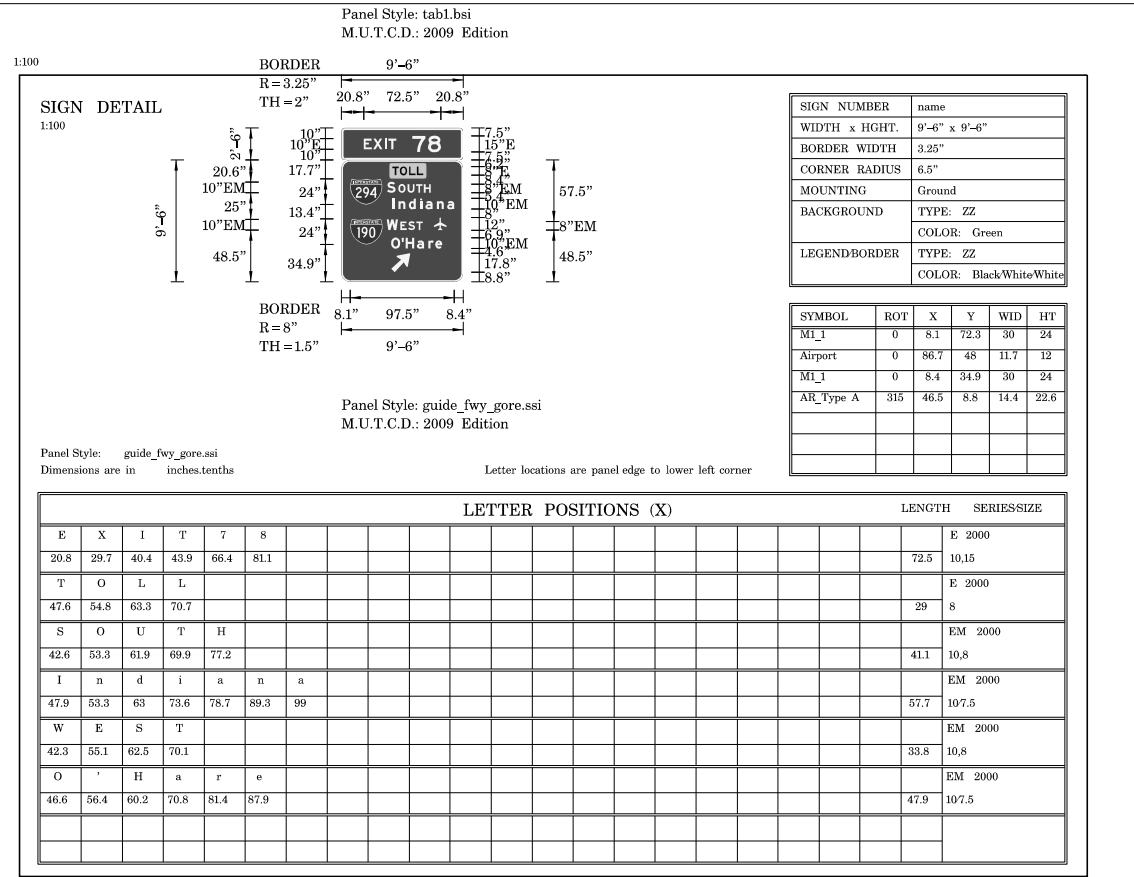
Panel Style: guide_fwy_gore.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

| | |
|----------------|--------------------------------------|
| SIGN NUMBER | name |
| WIDTH x HIGHT. | 10'-0" x 9'-6" |
| BORDER WIDTH | 1.5" |
| CORNER RADIUS | 8" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black/White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|--------|-----|------|------|-----|----|
| MI_1 | 0 | 8.4 | 79.7 | 24 | 24 |
| MI_1 | 0 | 10.2 | 35.4 | 30 | 24 |

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | |
|----------------------|------|------|------|------|------|------|------|-------|------|------|--------|------------|--------|---------|
| T | O | L | L | | | | | | | | | | E 2000 | |
| 41.6 | 48.7 | 57.3 | 64.6 | | | | | | | | | | 29 | 8 |
| W | E | S | T | | | | | | | | | | | EM 2000 |
| 38.1 | 51.3 | 58.7 | 66.4 | | | | | | | | | | 34.2 | 10,8 |
| R | o | c | k | f | o | r | d | | | | | | | EM 2000 |
| 35.8 | 45.7 | 54.7 | 64.4 | 73.1 | 79.5 | 89.4 | 95.9 | | | | | | 66.7 | 107.5 |
| T | O | L | L | | | | | | | | | | | E 2000 |
| 46.3 | 53.5 | 62 | 69.4 | | | | | | | | | | 29 | 8 |
| N | O | R | T | H | | | | | | | | | | EM 2000 |
| 45.2 | 55.5 | 64.1 | 71.5 | 78.9 | | | | | | | | | 40.1 | 10,8 |
| M | i | l | w | a | u | k | e | e | | | | | | EM 2000 |
| 29 | 41.7 | 47.7 | 52.6 | 64.8 | 75.4 | 86 | 94.8 | 103.6 | | | | | 81.2 | 107.5 |
| L | E | F | T | 3 | L | A | N | E | S | | | | | D 2000 |
| 26.5 | 32.6 | 39 | 44.4 | 49.4 | 57.4 | 62.8 | 70.8 | 76.2 | 84.2 | 91.6 | 97.4 | | 76.3 | 8 |



EROSION CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN SILT FENCE AS INDICATED IN THE PLAN PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE EROSION CONDITIONS. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COST WILL BE PAID TO THE CONTRACT FOR CHANGED CONSTRUCTION LIMITS.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO THE CONSTRUCTION LIMITS AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. THE RESIDENT ENGINEER SHALL MAKE THE FINAL DETERMINATION ON THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER. IN ADDITION TO THE LOCATIONS INDICATED ON THE PLAN, SILT FENCE SHALL BE PLACED AROUND THE PERIMETER OF THE EARTH STOCKPILES.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE. ALL CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE NOTED ON THE SITE PLAN.
4. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF THE YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
5. EXISTING CULVERTS WITHIN THE DISTURBED LIMIT SHALL BE PROTECTED PRIOR TO ANY CONSTRUCTION ACTIVITIES COMMENCING UPSTREAM.
6. INLETS EXPOSED TO TRAFFIC, AND ALONG SHOULDER BARRIER WALL OR CURB & GUTTER WITHIN 4' OF STAGED TRAFFIC, WITH INLET FILTER PROTECTION SHALL HAVE FILTER BASKETS WITH OVERFLOW TO ALLOW FOR THE POSITIVE DRAINAGE OF WATER OFF THE ROADWAY. THESE INLET FILTERS SHALL BE INSPECTED AND CLEANED UTILIZING OFF-PEAK LANE CLOSURES AS APPROVED BY THE ENGINEER. THE COST OF TRAFFIC CONTROL FOR INSPECTION AND MAINTENANCE OF EROSION CONTROL SYSTEMS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)".
7. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
8. THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES, BUT NOT LIMITED TO, WILL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL (0.5 INCHES OR GREATER IN A 24-HOUR PERIOD):
 - A. SEEDING - ALL ERODIBLE BARE EARTH AREAS WILL BE TEMPORARILY SEEDED ON A WEEKLY BASIS.
 - B. PERIMETER EROSION BARRIER - SEDIMENT WILL BE REMOVED WHEN IT EXCEEDS HALF THE HEIGHT OF THE FENCE AND FENCE THAT COLLAPSES WILL BE REPLACED IMMEDIATELY.
 - C. EROSION CONTROL - ANY AREAS WHICH FAIL WILL BE REPAIRED IMMEDIATELY.
 - D. IN CONCENTRATED FLOW SUCH AS DITCH BOTTOMS, EROSION CONTROL BLANKET, TEMPORARY DITCH CHECKS AND OTHER EROSION CONTROLS WILL BE INSPECTED AFTER EVERY RUNOFF EVENT AND MAINTAINED AS NEEDED.
 - E. INLET FILTERS WILL BE INSPECTED AFTER EVERY RUNOFF EVENT AND MAINTAINED AS NEEDED.
 ALL MAINTENANCE OF EROSION CONTROL SYSTEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL LOCATIONS WHERE VEHICLES ENTER OR EXIT THE CONSTRUCTION SITE AND ALL OTHER AREAS SUBJECT TO EROSION SHOULD ALSO BE INSPECTED PERIODICALLY.
 ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES -MAINTENANCE GUIDE: (<http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control>).
9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. AS APPROVED BY THE ENGINEER.
10. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE SHALL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) CALENDAR DAYS PRIOR TO THE INITIATION OF IMPROVEMENTS.
11. IN AREAS WHERE WORK IS COMPLETED, PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN SECTION 11.B.
12. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES. STOCKPILES OR SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN UNDISTURBED FOR MORE THAN 14 DAYS WILL RECEIVE TEMPORARY SEEDING WITHIN 7 CALENDAR DAYS.
13. IF DEWATERING SERVICES ARE USED. ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, SILT FILTER BAG (SPECIAL) OR OTHER APPROPRIATE MEASURE.
14. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED. AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
15. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
16. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

17. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NPDES I PERMIT REQUIREMENT SET FORTH BY THE ILLINOIS EPA.

18. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATION, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THAT THE FOLLOWING CONDITIONS ARE MET:

IAI ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER

IBI THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION STRAW MULCH

ICI ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED

19. SEEDING USAGE:

CLASS 2A SALT TOLERANT ROADSIDE MIX TO BE USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES, INTENDED TO BE MOWED BY IDOT.

SODDING SALT TOLERANT TO BE USED IN AREAS ADJACENT TO OTHER AREAS REQUIRING A HIGH ORDER OR APPEARANCE INTENDED TO BE MOWED BY SOMEONE OTHER THAN IDOT.

TEMPORARY EROSION CONTROL SEEDING TO BE USED FOR SHORT TERM TEMPORARY SEEDING.

20. TOP SOIL PLACEMENT:

TOPSOIL SHALL NOT BE PLACED AT AREAS COMPLETED WHERE FURTHER CONSTRUCTION SHALL BE DONE AS PART OF THIS CONTRACT.

21. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD SHEET 2800011). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE IN PLACE OF SILT FENCE.

22. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.

23. THE TOTAL AREA OF THE PROJECT IS 34.94 ACRES. APPROXIMATELY 9.48 ACRES ARE ANTICIPATED TO BE DISTURBED AS PART OF THE PROJECT.

23A. THE CONTRACTOR SHOULD PROVIDE TO THE ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

23B. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

23C. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

LANDSCAPING:

24. THE SEEDING DATES FOR BARE EARTH SEEDING MIXTURE CLASS 4 (MODIFIED) SHALL BE FROM NOVEMBER 1 TO MAY 31. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.

25. THE ENGINEER WILL CONTACT MELISSA DEL ROSARIO OF THE ROADSIDE DEVELOPMENT UNIT (847) 705-4391, AT LEAST 7 DAYS PRIOR TO PLANTING FOR LAYOUT OF THE SEEDING, TREES, SHRUBS.

26. ALL PERMANENT SEEDING RESTORATION SHALL ALSO TAKE PLACE IN AREAS WHERE LIGHTING AND CABLE WORK IS PROPOSED.

27. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.

28. THE FINAL LOCATIONS OF THE LANDSCAPE ITEMS WILL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY THE ROADSIDE DEVELOPMENT UNIT, MELISSA DEL ROSARIO, AT (847) 705-4391, (2) WEEKS PRIOR TO STARTING INSTALLATION.

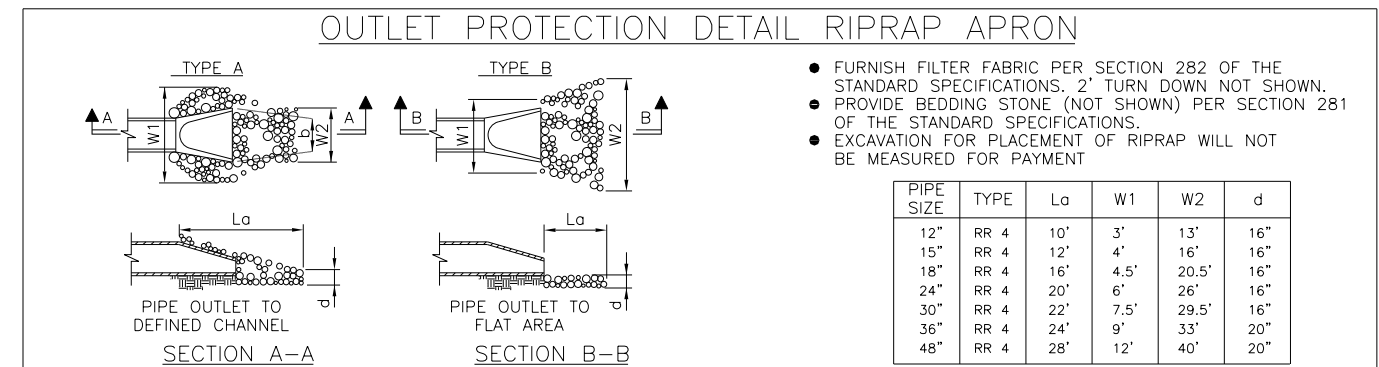
29. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A TREE PROTECTION ZONE BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE TREE PROTECTION ZONE. THE TEMPORARY FENCE SHALL REMAIN ERECT AND BE MAINTAINED DURING CONSTRUCTION. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

30. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

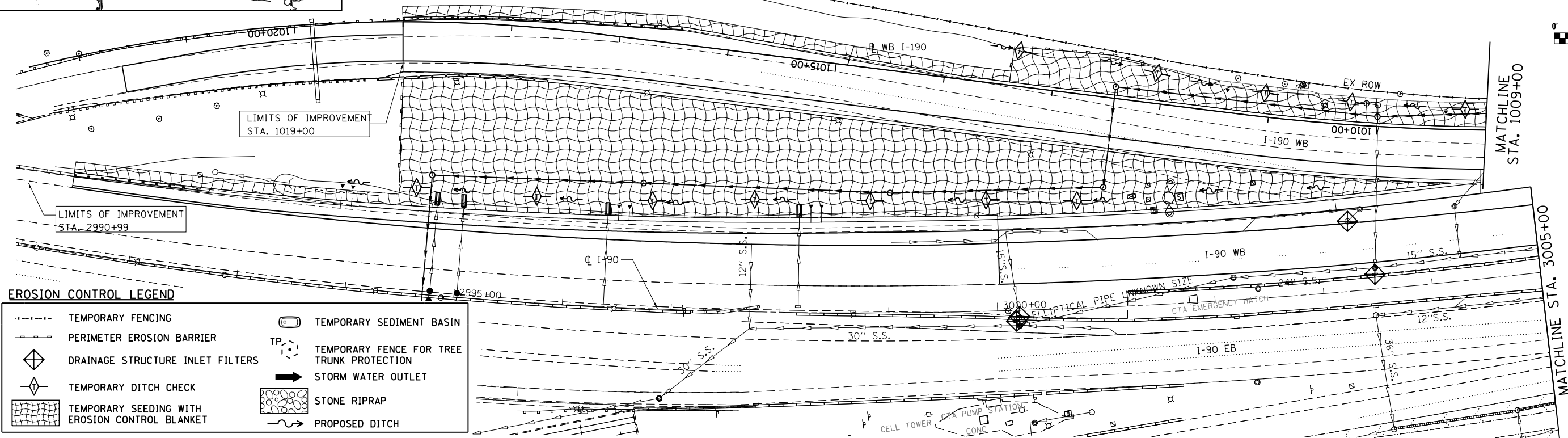
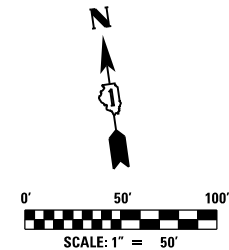
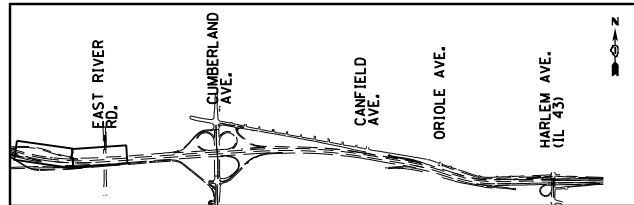
31. TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.

32. THE CONTRACTOR SHALL NOTIFY THE ROADSIDE DEVELOPMENT UNIT, MELISSA DEL ROSARIO, AT 847-705-4391 (72) HOURS PRIOR TO TREE REMOVAL OPERATIONS.

33. GATEWAY GREEN SIGNS ARE LOCATED WITHIN THE PROJECT LIMITS. IF THEY ARE TO BE REMOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH IDOT ROADSIDE DEVELOPMENT UNIT, MELISSA DEL ROSARIO, AT 847-705-4391 (72) HOURS PRIOR TO REMOVAL. THE CONTRACTOR SHALL REINSTALL THE GATEWAY GREEN SIGNS WITHIN THE PROJECT LIMITS DESIGNATED BY THE RESIDENT ENGINEER. THIS COST OF WORK SHALL BE CONSIDERED INCLUDED IN THE COST FOR THE LANDSCAPE WORK.



| | | | | | | | | | | | | | |
|--------------------|--|-----------------------------|-----------------|-------------|---|---|-------------------|------|--------------------|---------|--------|-----------------|--------------|
| AEG Ltd. | 3100 Dundee Road, Suite 502, Northbrook, IL 60062 847.753.8020 office 847.753.8023 fax | USER NAME = ssekulich | DESIGNED GS | REVISED - - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE EROSION AND SEDIMENT CONTROL GENERAL NOTES | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | PLOT SCALE = 24.0000' / ft. | CHECKED YO | REVISED - | | 90 | (1517 & 1415) R-2 | COOK | 734 | 208 | | | |
| | | PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - | | SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA. | | | CONTRACT NO. 60Y39 | | | | |



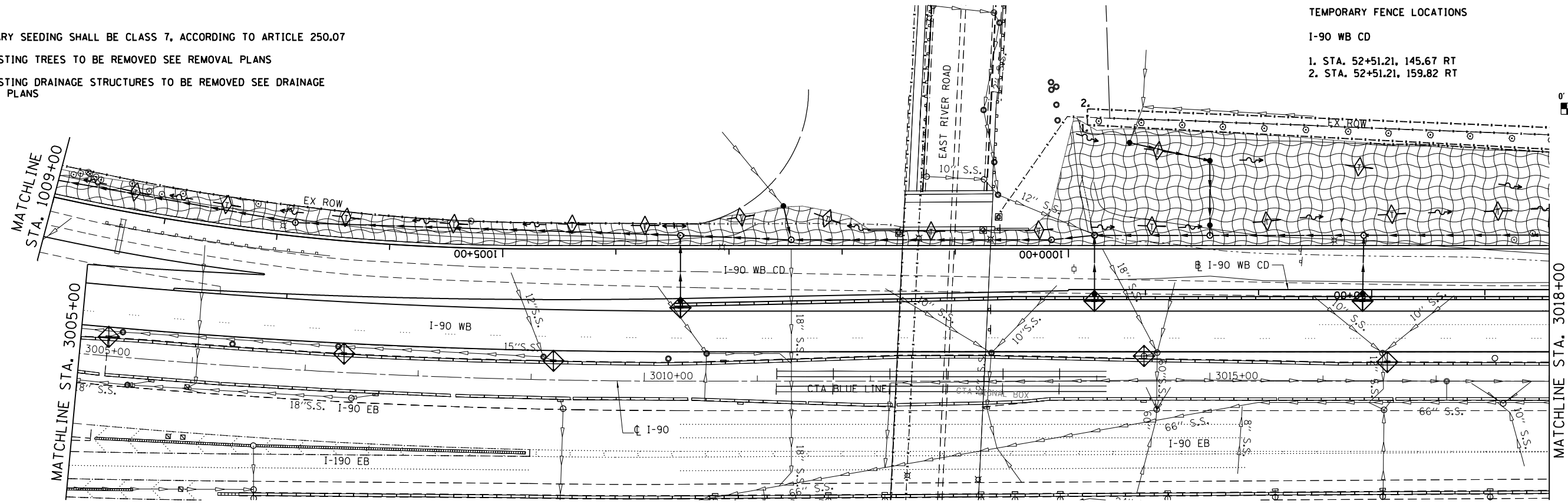
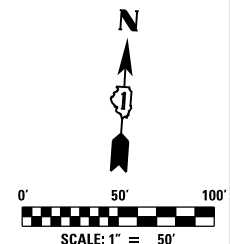
EROSION CONTROL LEGEND

| | | | |
|--|--|--|---|
| | TEMPORARY FENCING | | TEMPORARY SEDIMENT BASIN |
| | PERIMETER EROSION BARRIER | | TEMPORARY FENCE FOR TREE TRUNK PROTECTION |
| | DRAINAGE STRUCTURE INLET FILTERS | | STORM WATER OUTLET |
| | TEMPORARY DITCH CHECK | | STONE RIPRAP |
| | TEMPORARY SEEDING WITH EROSION CONTROL BLANKET | | PROPOSED DITCH |

NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS

- TEMPORARY FENCE LOCATIONS**
- I-90 WB CD
1. STA. 52+51.21, 145.67 RT
 2. STA. 52+51.21, 159.82 RT



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847.753.8020 office
847.753.8023 fax

| | | |
|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

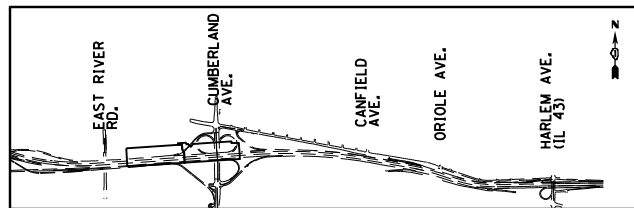
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
EROSION CONTROL PLAN**

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 209 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

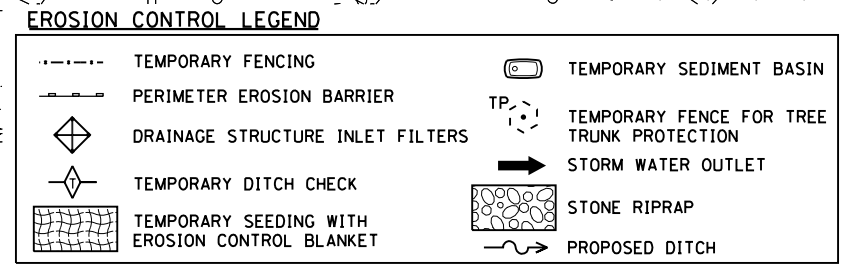
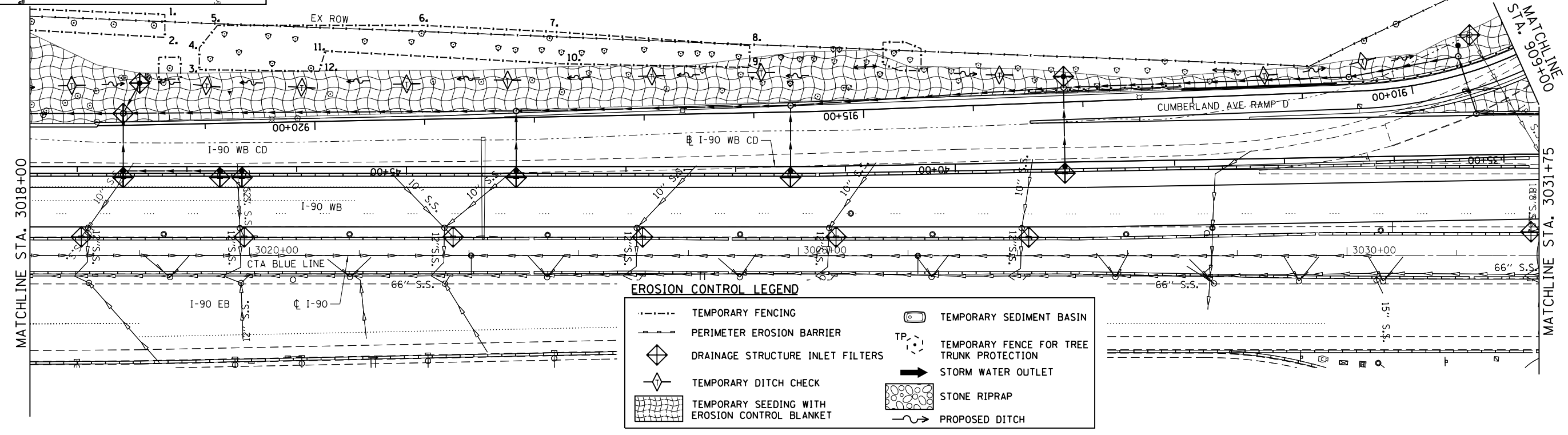
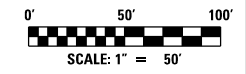
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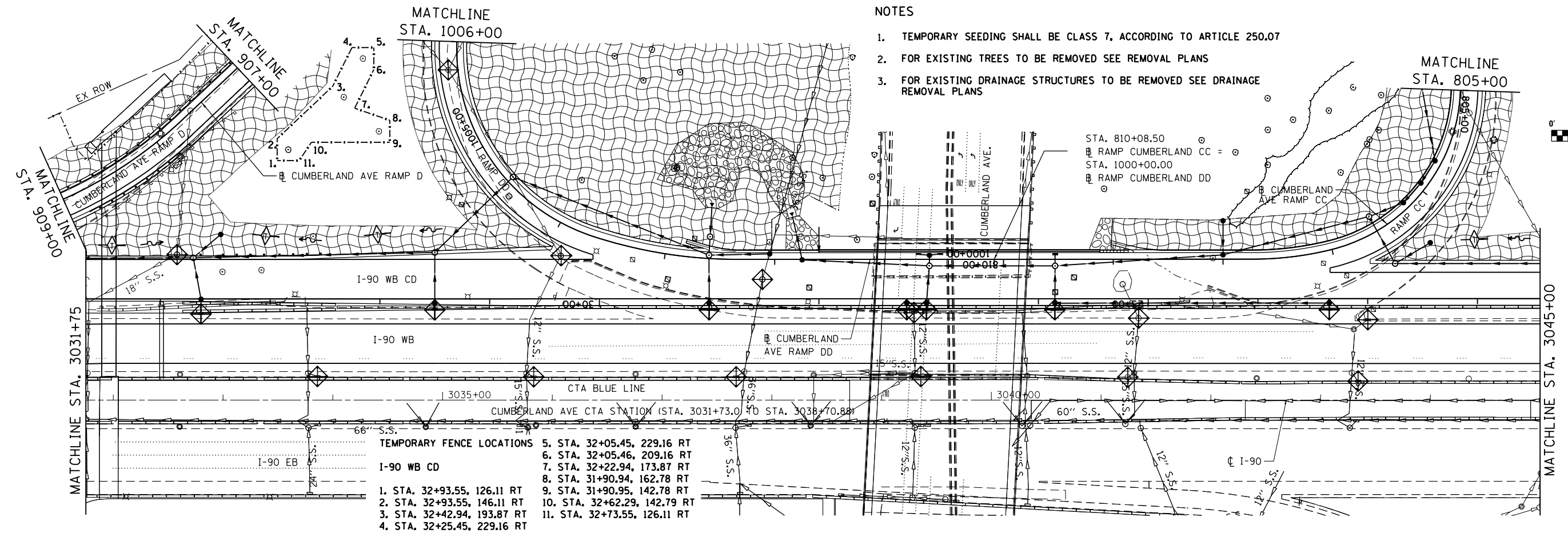
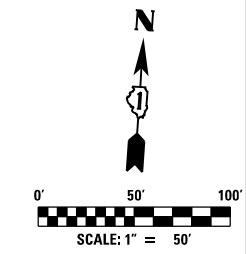
TEMPORARY FENCE LOCATIONS

I-90 WB CD

| | |
|-----------------------------|------------------------------|
| 1. STA. 52+51.21, 145.67 RT | 5. STA. 46+72.13, 128.56 RT |
| 2. STA. 52+51.21, 159.82 RT | 6. STA. 44+86.72, 128.67 RT |
| 3. STA. 46+88.73, 88.21 RT | 7. STA. 43+69.18, 122.95 RT |
| 4. STA. 46+88.73, 108.21 RT | 8. STA. 41+87.32, 110.21 RT |
| | 9. STA. 41+87.32, 90.21 RT |
| | 10. STA. 43+58.91, 93.65 RT |
| | 11. STA. 45+73.89, 105.28 RT |
| | 12. STA. 45+79.53, 86.7 RT |



- NOTES**
1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
 2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
 3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS



TEMPORARY FENCE LOCATIONS

I-90 WB CD

| | |
|-----------------------------|------------------------------|
| 1. STA. 32+93.55, 126.11 RT | 5. STA. 32+05.45, 229.16 RT |
| 2. STA. 32+93.55, 146.11 RT | 6. STA. 32+05.46, 209.16 RT |
| 3. STA. 32+42.94, 193.87 RT | 7. STA. 32+22.94, 173.87 RT |
| 4. STA. 32+25.45, 229.16 RT | 8. STA. 31+90.94, 162.78 RT |
| | 9. STA. 31+90.95, 142.78 RT |
| | 10. STA. 32+62.29, 142.79 RT |
| | 11. STA. 32+73.55, 126.11 RT |

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 847.753.8020 office
 847.753.8023 fax

| | | |
|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

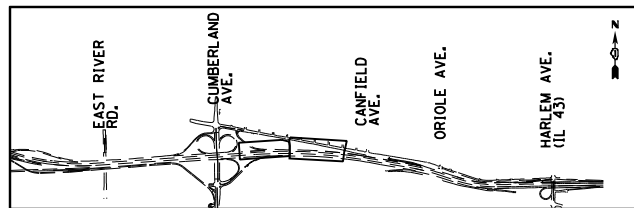
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
EROSION CONTROL PLAN

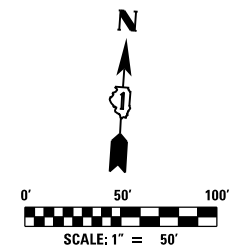
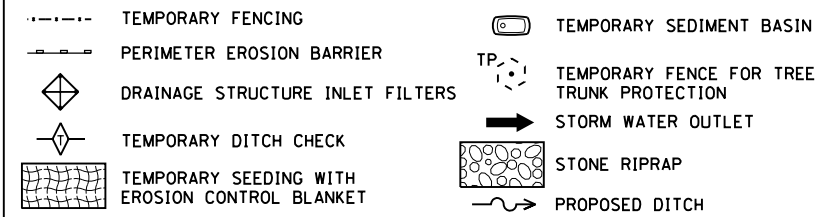
SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 210 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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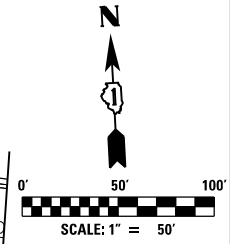
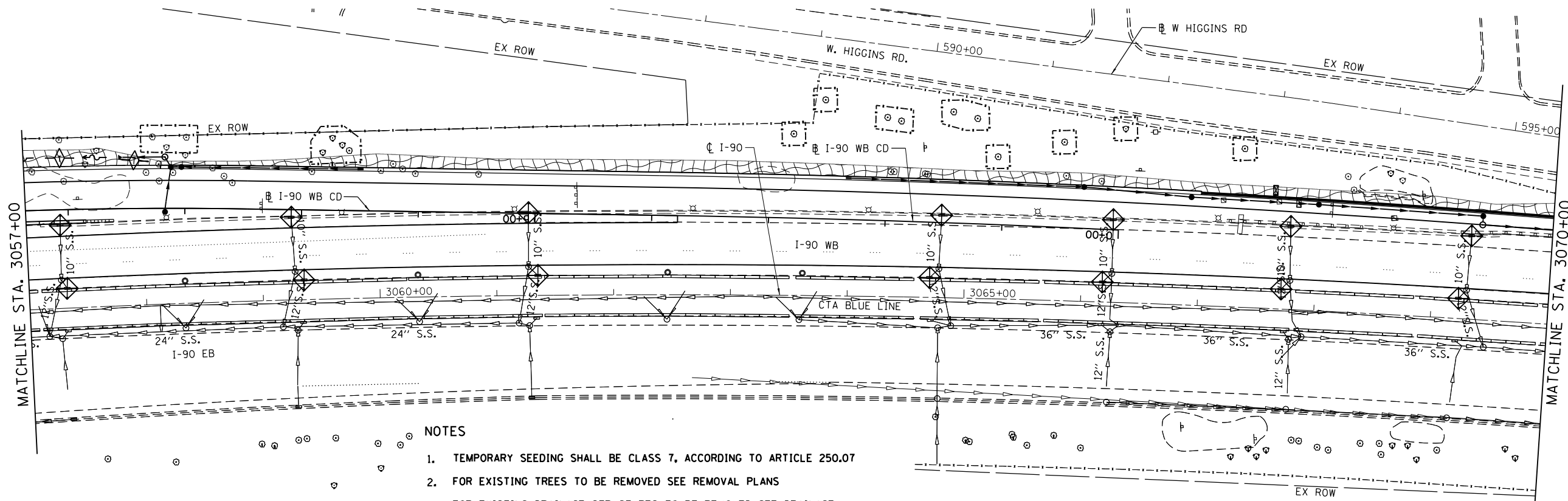
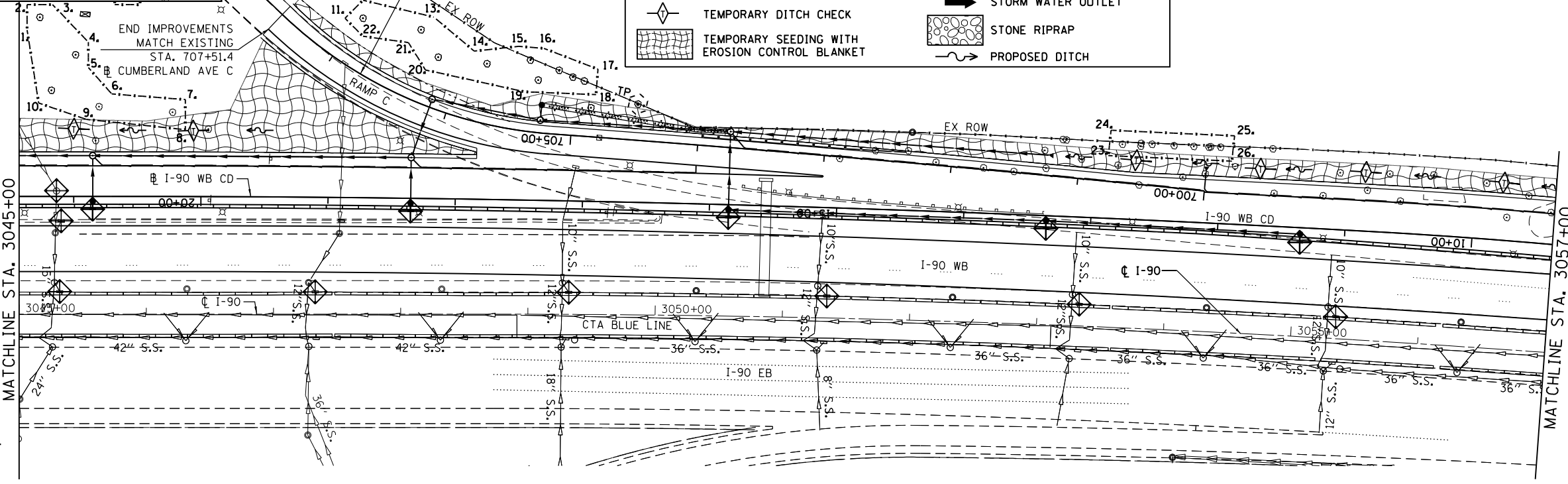


EROSION CONTROL LEGEND



TEMPORARY FENCE LOCATIONS

- I-90 WB CD**
- 1. STA. 21+36.60, 130.69 RT
 - 2. STA. 21+36.60, 150.69 RT
 - 3. STA. 21+16.60, 150.68 RT
 - 4. STA. 20+88.48, 121.25 RT
 - 5. STA. 20+88.48, 101.25 RT
 - 6. STA. 20+70.06, 80.49 RT
 - 7. STA. 20+12.47, 76.13 RT
 - 8. STA. 20+12.40, 52.52 RT
 - 9. STA. 20+90.06, 60.49 RT
 - 10. STA. 21+27.48, 73.35 RT
- RAMP C**
- 11. STA. 707+10.09, 29.67 RT
 - 12. STA. 707+06.77, 49.45 RT
 - 13. STA. 706+40.86, 66.6 RT
 - 14. STA. 705+93.08, 53.13 RT
 - 15. STA. 705+53.08, 65.04 RT
 - 16. STA. 705+28.34, 66.39 RT
 - 17. STA. 704+82.54, 53.34 RT
 - 18. STA. 704+82.59, 33.34 RT
 - 19. STA. 705+41.01, 30.61 RT
 - 20. STA. 706+28.09, 26.04 RT
 - 21. STA. 706+51.72, 39.84 RT
 - 22. STA. 706+88.62, 26.21 RT



- NOTES**
1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
 2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
 3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS

AEG
 Ltd.
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 IL 60062
 847.753.8020 office
 847.753.8023 fax

| | | |
|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

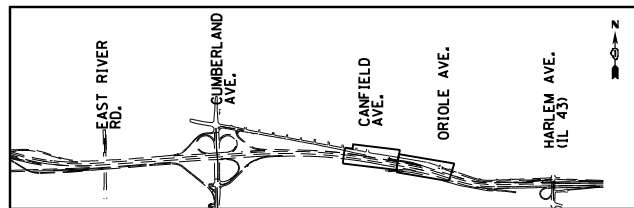
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 EROSION CONTROL PLAN**

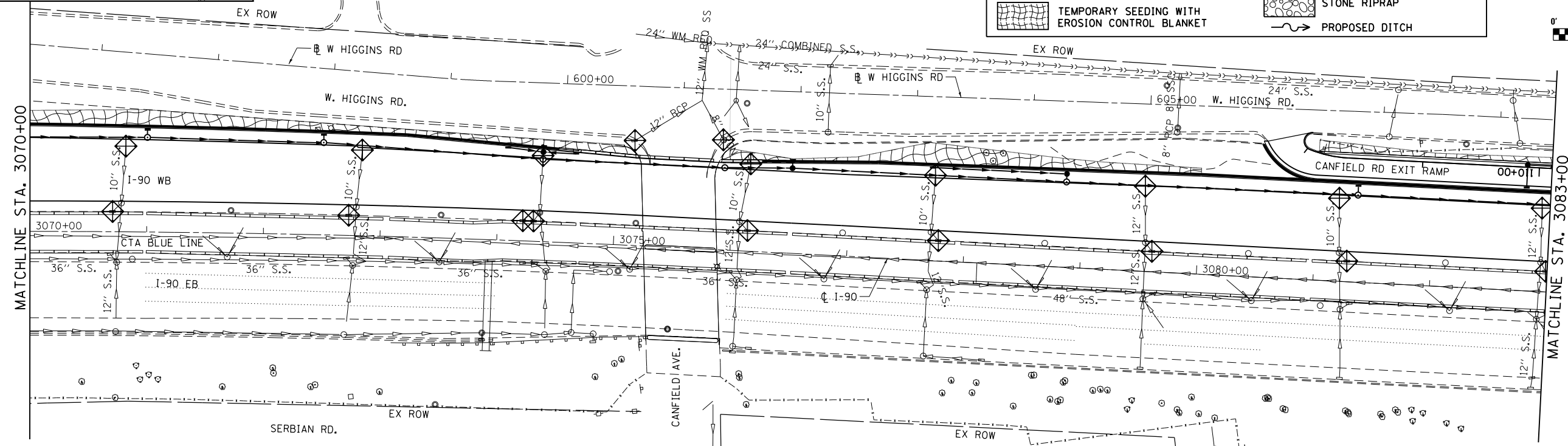
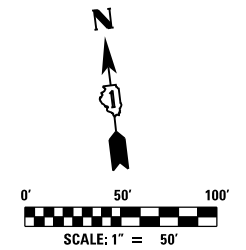
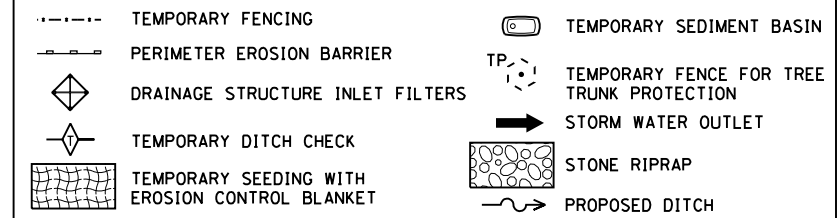
SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 211 |
| ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 60Y39 |

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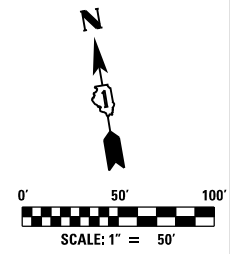
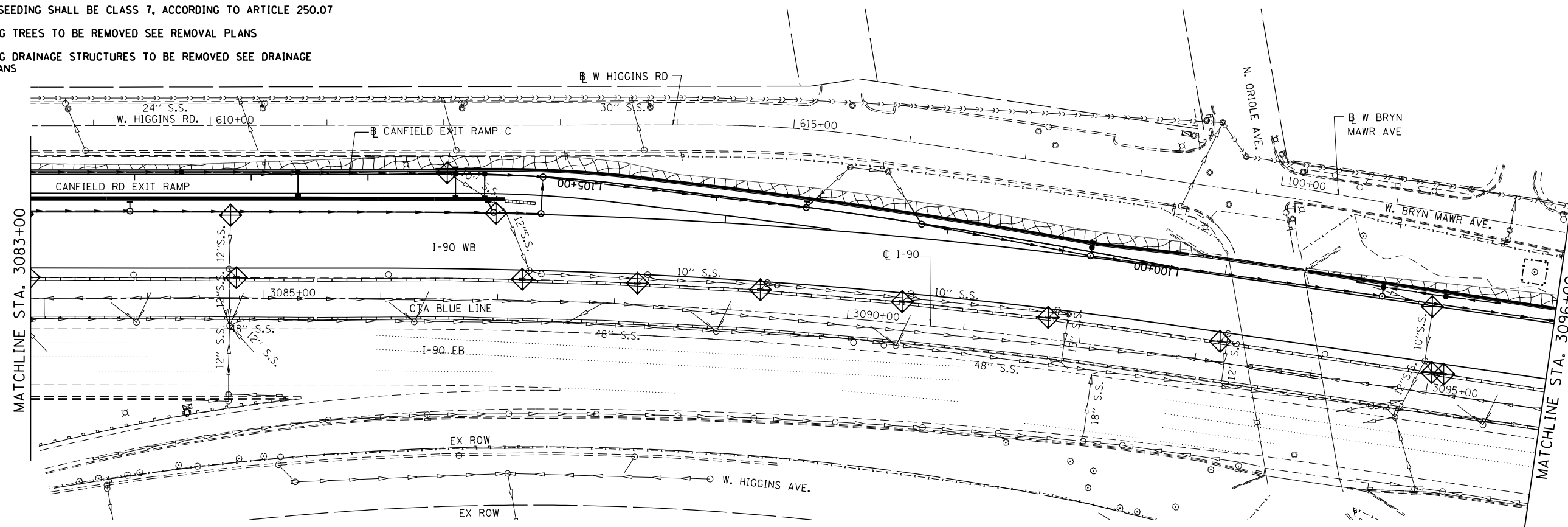


EROSION CONTROL LEGEND



NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS



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 847.753.8023 fax

| | | |
|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

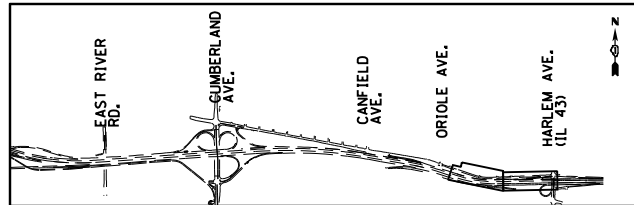
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

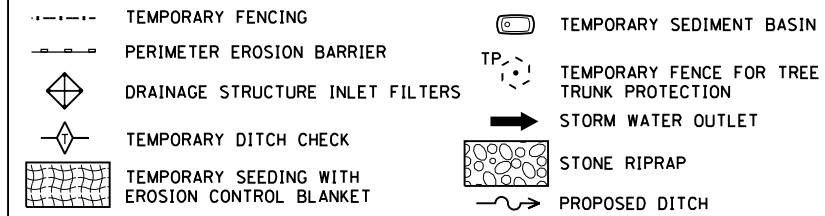
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|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 212 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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ECS-05

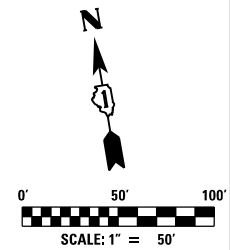
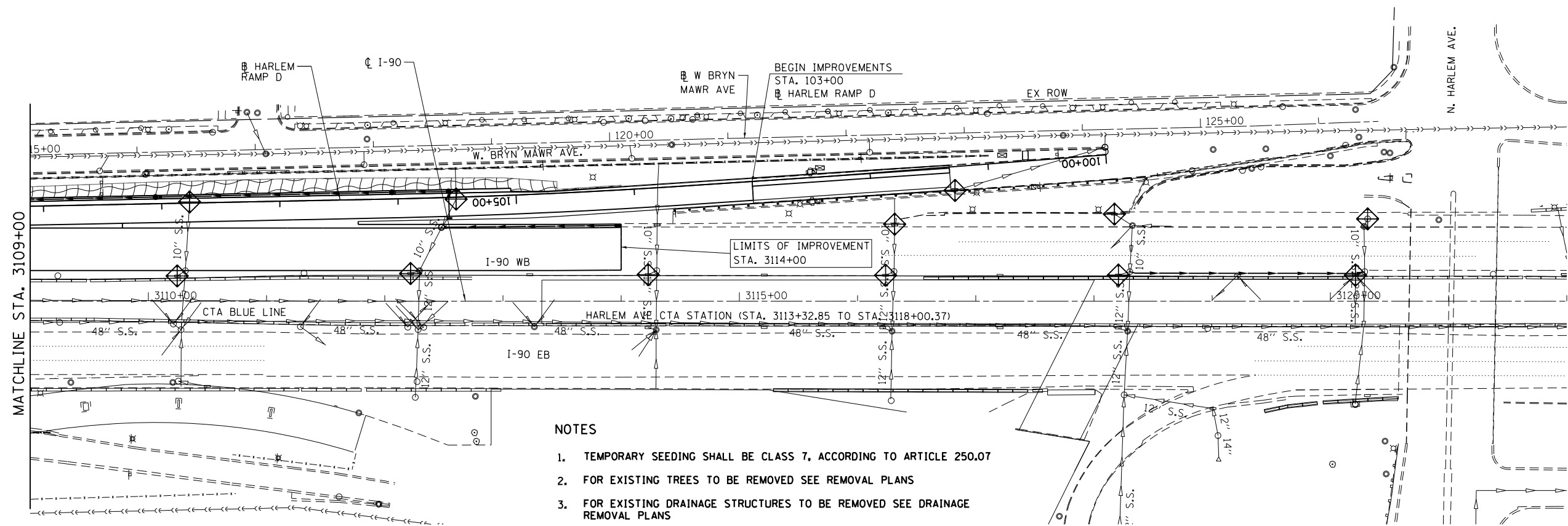
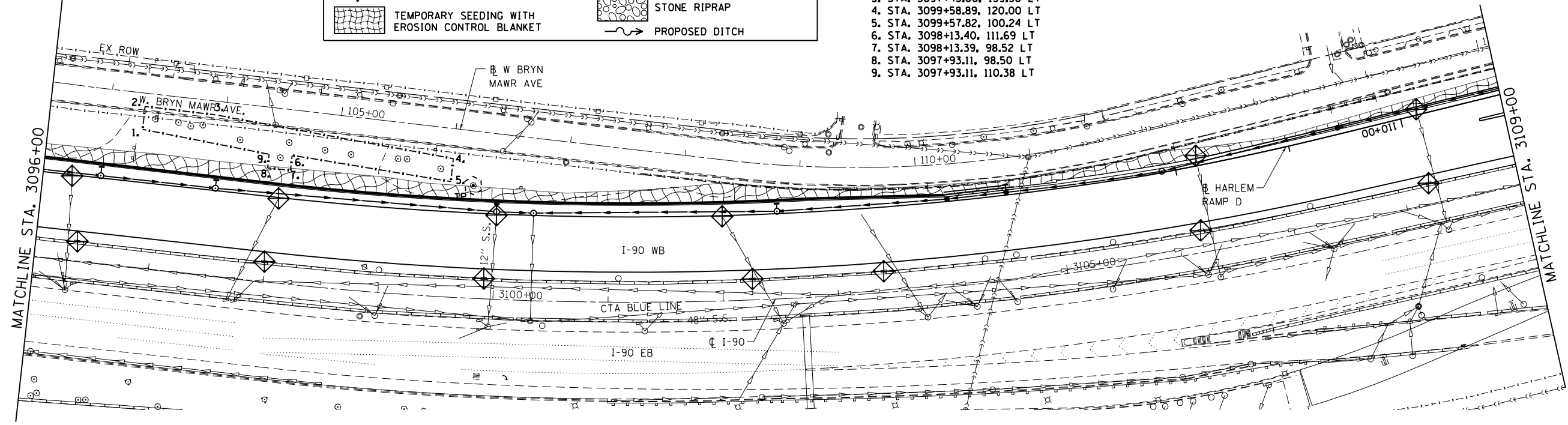
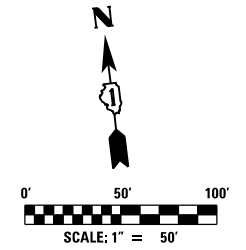


EROSION CONTROL LEGEND



TEMPORARY FENCE LOCATIONS

- I-90 WB**
1. STA. 3096+81.64, 119.89 LT
 2. STA. 3096+81.26, 139.29 LT
 3. STA. 3097+43.06, 139.30 LT
 4. STA. 3099+58.89, 120.00 LT
 5. STA. 3099+57.82, 100.24 LT
 6. STA. 3098+13.40, 111.69 LT
 7. STA. 3098+13.39, 98.52 LT
 8. STA. 3097+93.11, 98.50 LT
 9. STA. 3097+93.11, 110.38 LT



NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. FOR EXISTING TREES TO BE REMOVED SEE REMOVAL PLANS
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AEG
 Ltd.
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 847.753.8023 fax

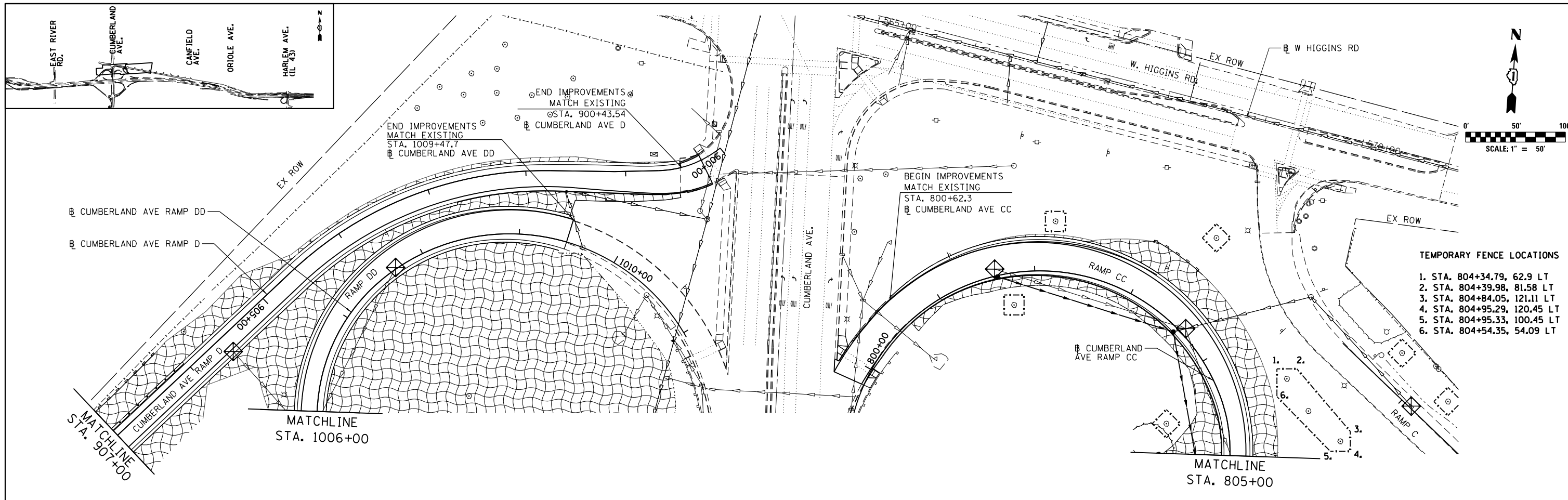
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|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 EROSION CONTROL PLAN**

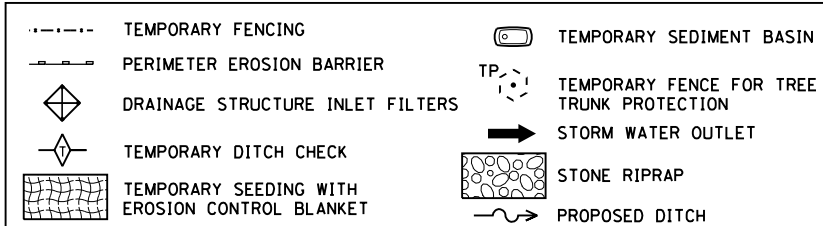
SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------------|-------------|------------------|---------------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 213 |
| CONTRACT NO. 60Y39 | | | | ILLINOIS FED. AID PROJECT |



- TEMPORARY FENCE LOCATIONS**
1. STA. 804+34.79, 62.9 LT
 2. STA. 804+39.98, 81.58 LT
 3. STA. 804+84.05, 121.11 LT
 4. STA. 804+95.29, 120.45 LT
 5. STA. 804+95.33, 100.45 LT
 6. STA. 804+54.35, 54.09 LT

EROSION CONTROL LEGEND



NOTES

1. TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07
2. THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL
3. FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED SEE DRAINAGE REMOVAL PLANS
4. TEMPORARY EROSION CONTROL SHALL BE COORDINATED WITH THE MAINTENANCE OF TRAFFIC SEE MOT SHEETS FOR DETAILS.
5. ALL DISTURBED AREA SHALL BE STABILIZED WITH TEMPORARY SEEDING. TEMPORARY DITCH CHECKS SHALL BE INSTALLED ON ALL DISTURBED DITCH LINES. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPEATED AS NEEDED.
6. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

AEG
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 IL 60062
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 847.753.8023 fax

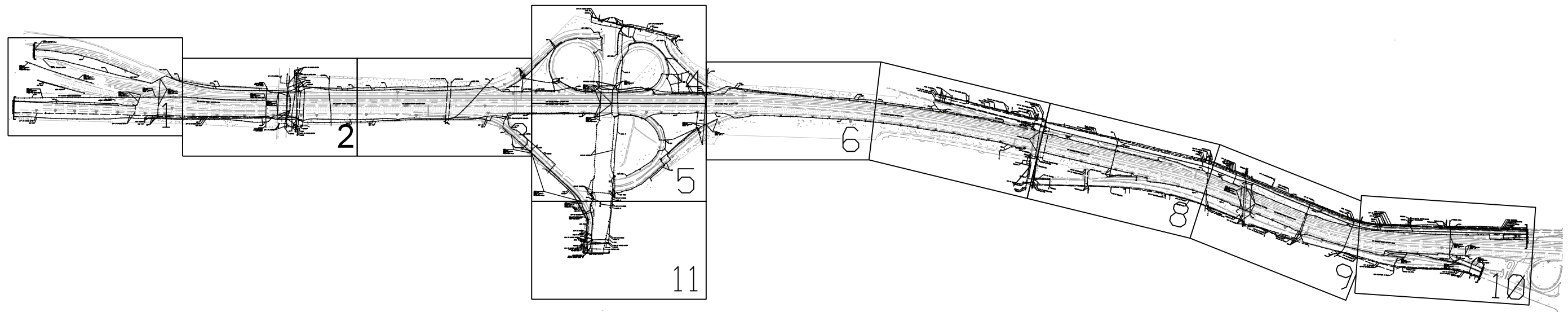
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|---------------------------|-----------------|-----------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - |
| PLOT SCALE = 24.00' / Ft. | DRAWN ML | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 EROSION CONTROL PLAN**

SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 214 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



| | | |
|-------|---------|-------------------------|
| —A— | A | AERIAL |
| ---- | UNKNOWN | |
| —O— | OIL | |
| —CTV— | CTV | CABLE TV |
| —T— | T | TELEPHONE |
| —G— | G | GAS |
| —E— | E | ELECTRIC |
| — — | | TRAFFIC SIGNAL/LIGHTING |
| —W— | W | WATER |
| —FM— | FM | FORCE MAIN |
| —FO— | FO | FIBER OPTIC |
| ⊕ | | TBE TEST HOLE |
| EOI | | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO | - WATER |
| CITY OF PARK RIDGE | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 4/27/15 through 7/17/15. Changes to utilities after 7/17/15 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: Cover

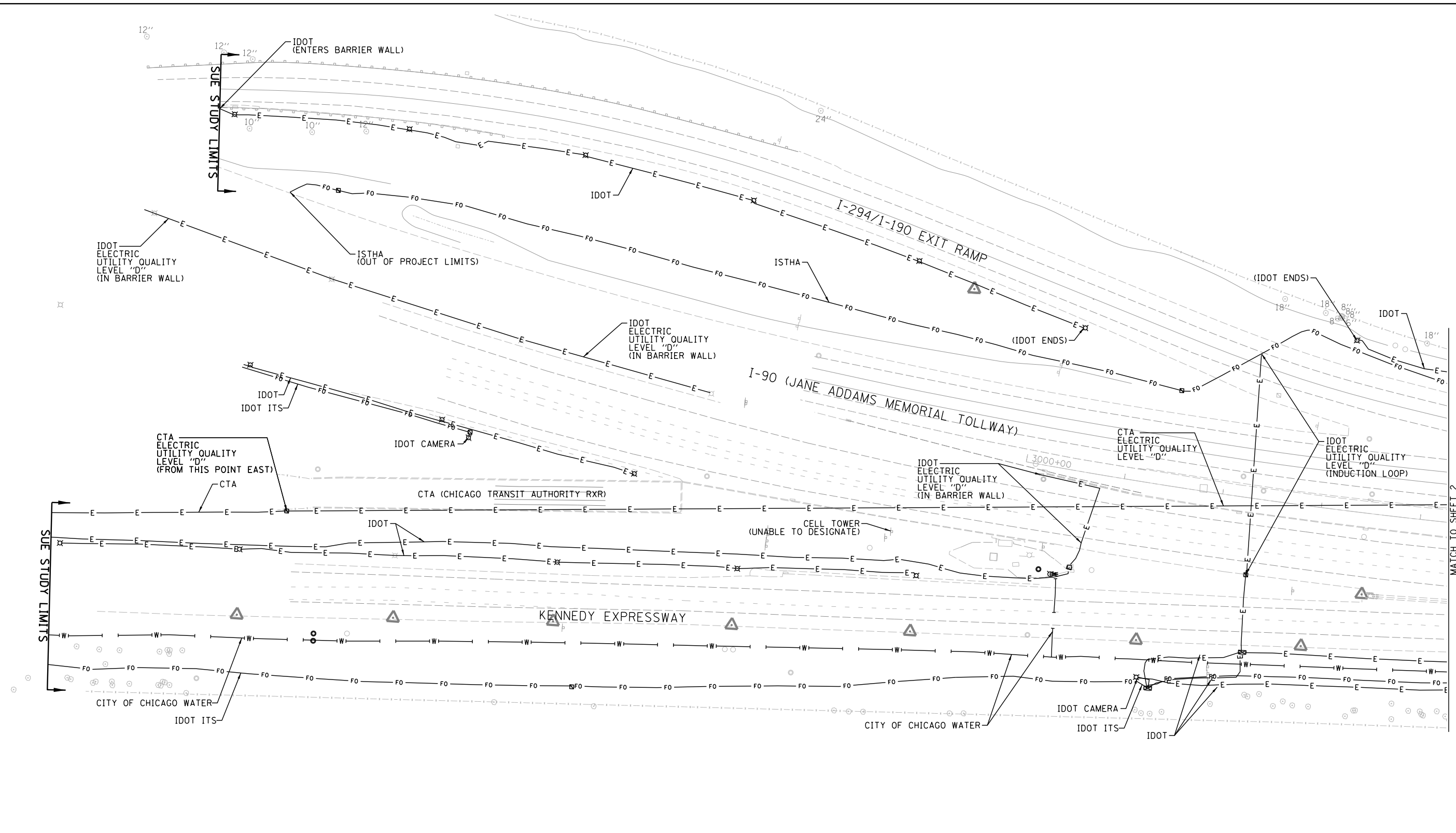
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | | |
|----------|---------|---------|
| DESIGNED | LP | REVISED |
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|----------------------------|-----------|
| | N/A | Cook | 734 | 215 |
| FED. ROAD DIST. NO. | | ILLINOIS | IDOT Project No. | |
| | | | Contract No. 60Y38 & 60Y39 | |

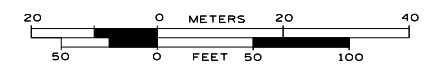


| | |
|---------------|-------------------------|
| — A — A — | AERIAL |
| - - - - - | UNKNOWN |
| — 0 — 0 — | OIL |
| — CTV — CTV — | CABLE TV |
| — T — T — | TELEPHONE |
| — G — G — | GAS |
| — E — E — | ELECTRIC |
| — W — W — | TRAFFIC SIGNAL/LIGHTING |
| — W — W — | WATER |
| — FM — FM — | FORCE MAIN |
| — FO — FO — | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO | - WATER |
| CITY OF PARK RIDGE | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 1 of 11

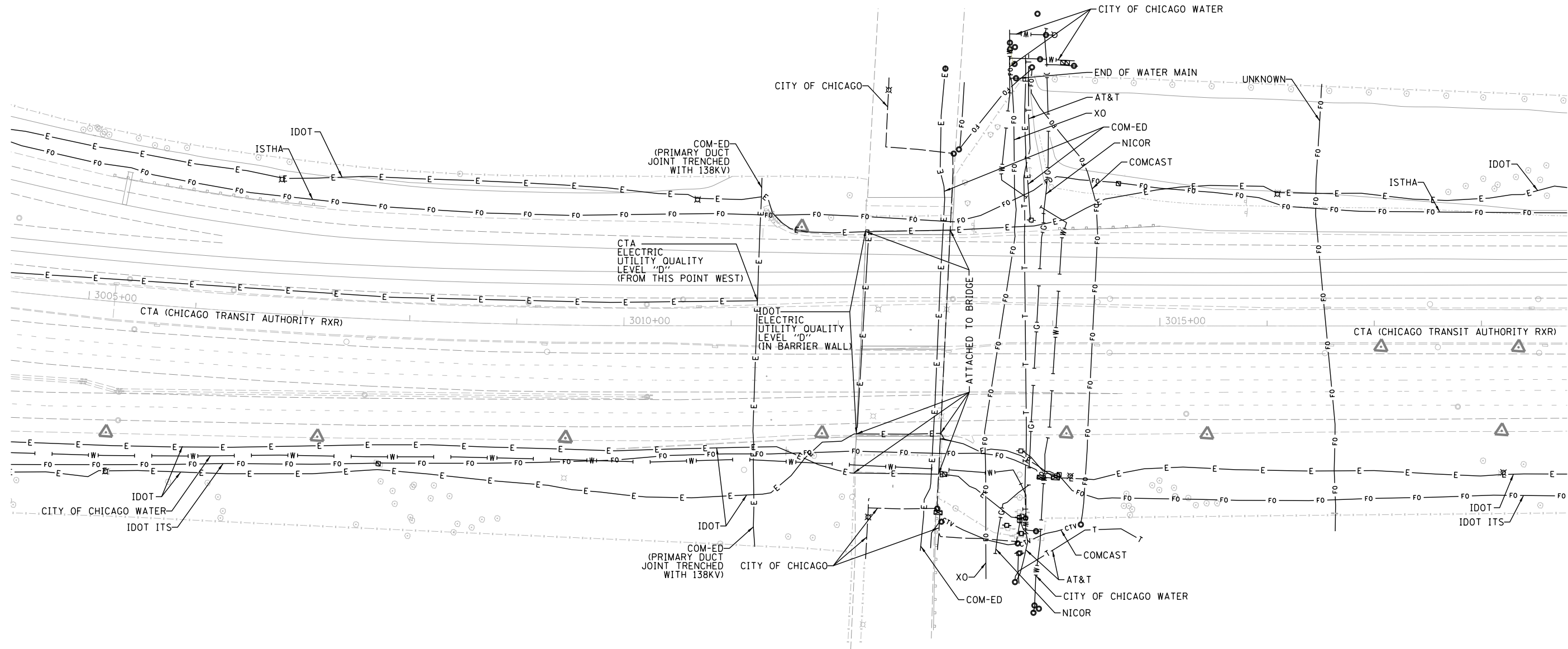
Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

| | | |
|----------|---------|---------|
| DESIGNED | LP | REVISED |
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 216 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |

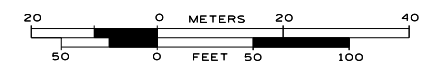


| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| - - - - | UNKNOWN |
| —O—O— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —FM—FM— | FORCE MAIN |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO WATER | - WATER |
| CITY OF PARK RIDGE WATER | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: of 11

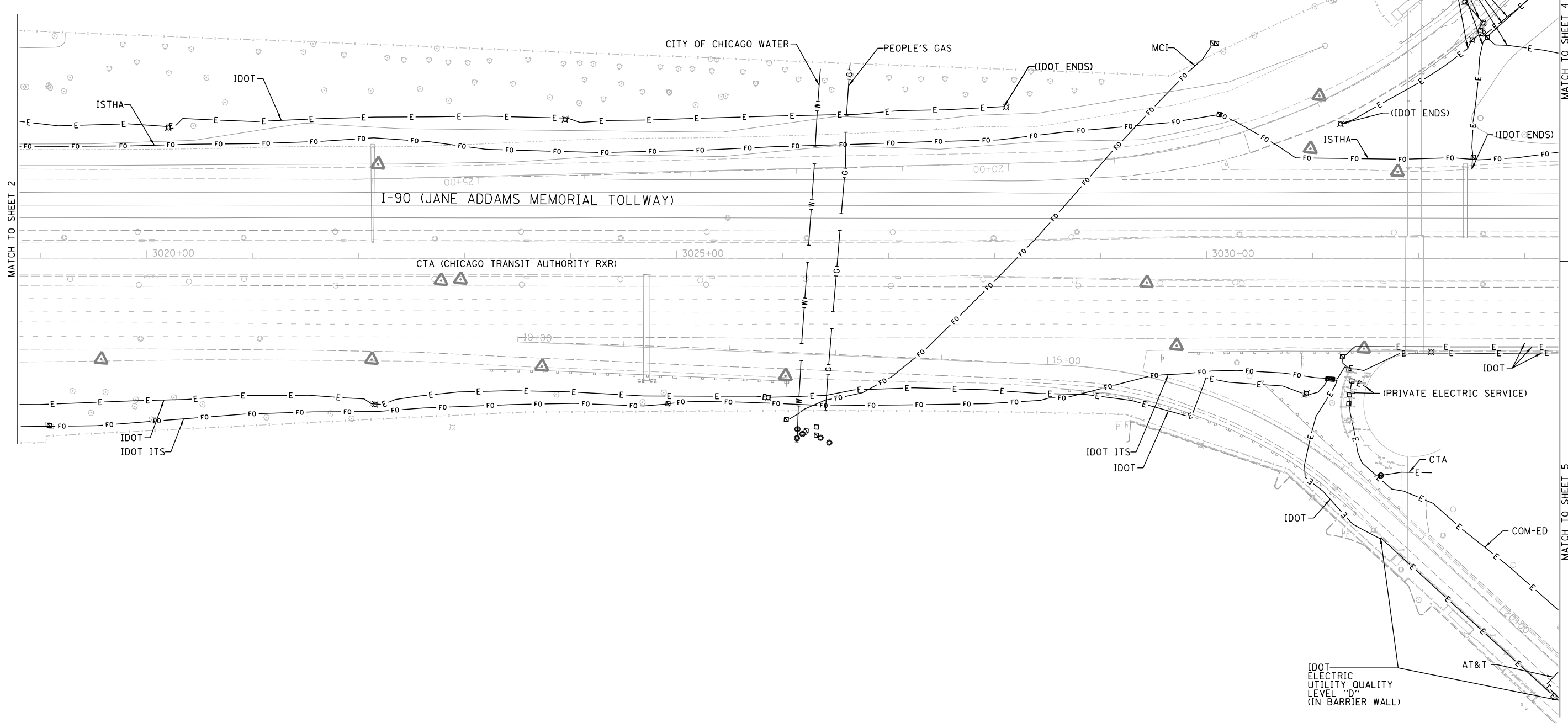
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | |
|--------------|---------|
| DESIGNED LP | REVISED |
| DRAWN SRK | REVISED |
| CHECKED MGR | REVISED |
| DATE 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 217 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |



MATCH TO SHEET 2

MATCH TO SHEET 4

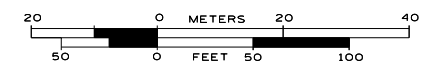
MATCH TO SHEET 5

| | |
|---------------|-------------------------|
| — A — A — | AERIAL |
| - - - - - | UNKNOWN |
| — O — O — | OIL |
| — CTV — CTV — | CABLE TV |
| — T — T — | TELEPHONE |
| — G — G — | GAS |
| — E — E — | ELECTRIC |
| — W — W — | TRAFFIC SIGNAL/LIGHTING |
| — W — W — | WATER |
| — FM — FM — | FORCE MAIN |
| — FO — FO — | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|----------------------------------|--|
| AT&T - FIBER OPTIC/TELEPHONE | |
| CITY OF CHICAGO - ELECTRIC | |
| CITY OF CHICAGO WATER - WATER | |
| CITY OF PARK RIDGE WATER - WATER | |
| CTA - ELECTRIC | |
| COM-ED - ELECTRIC | |
| COMCAST - CABLE TV/FIBER OPTIC | |
| IDOT - ELECTRIC/FIBER OPTIC | |
| IDOT ITS - FIBER OPTIC | |
| ISTHA - FIBER OPTIC | |
| LEVEL 3 - FIBER OPTIC | |
| MCI - FIBER OPTIC | |
| NICOR - GAS | |
| PEOPLE'S GAS - GAS | |
| UNKNOWN - FIBER OPTIC/UNKNOWN | |
| VERIZON - FIBER OPTIC | |
| XO - FIBER OPTIC | |

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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 3 of 11

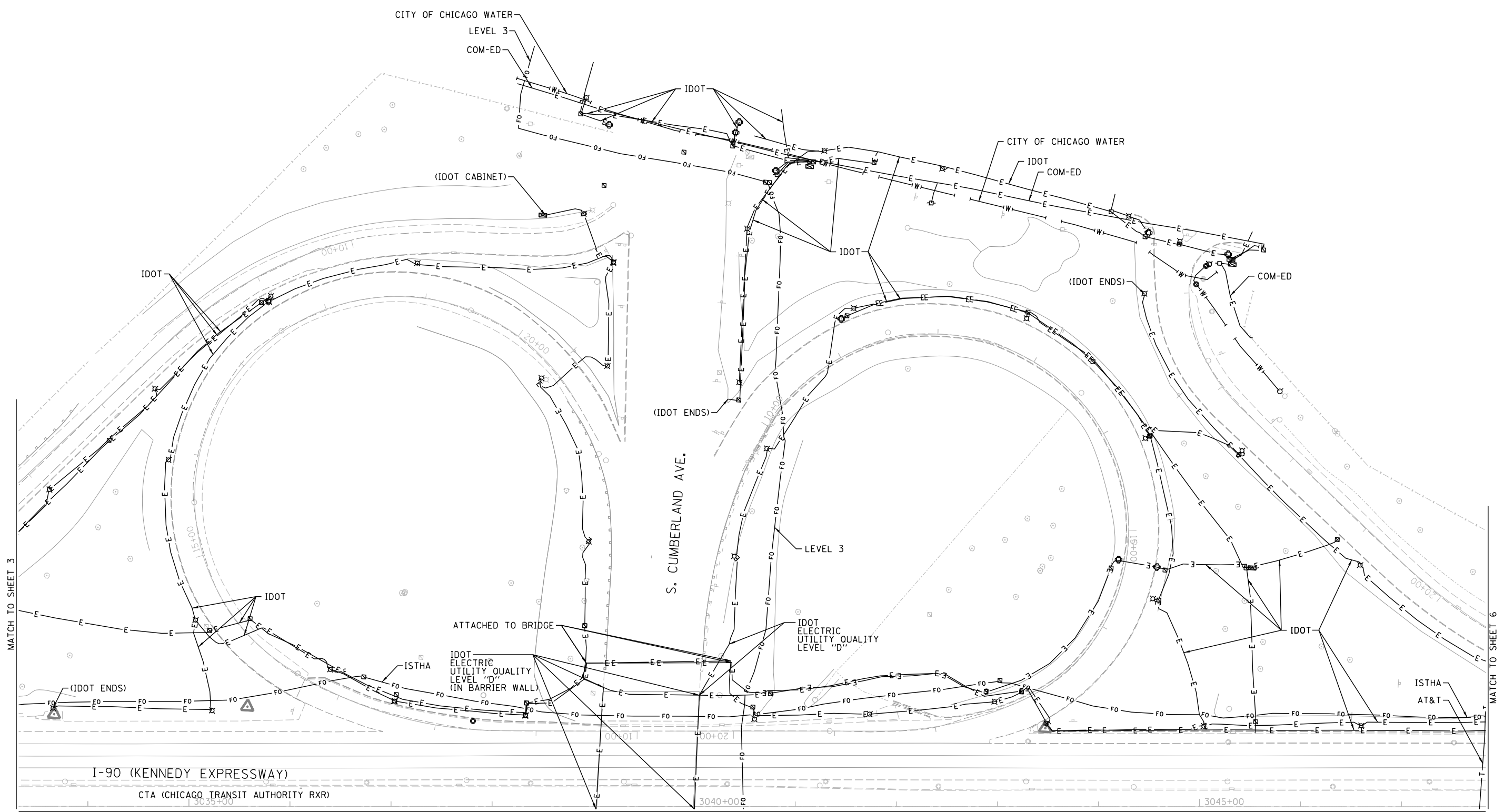
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | |
|--------------|---------|
| DESIGNED LP | REVISED |
| DRAWN SRK | REVISED |
| CHECKED MGR | REVISED |
| DATE 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 218 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |

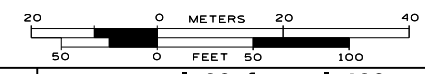


| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| —O—O— | UNKNOWN |
| —W—W— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —FM—FM— | FORCE MAIN |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO | - WATER |
| CITY OF PARK RIDGE | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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TBE Job No. IL09510651
SUE Plan Page: 4 of 11

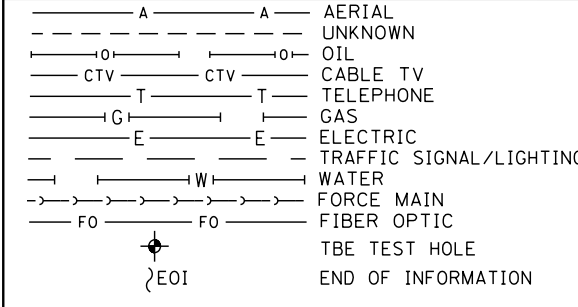
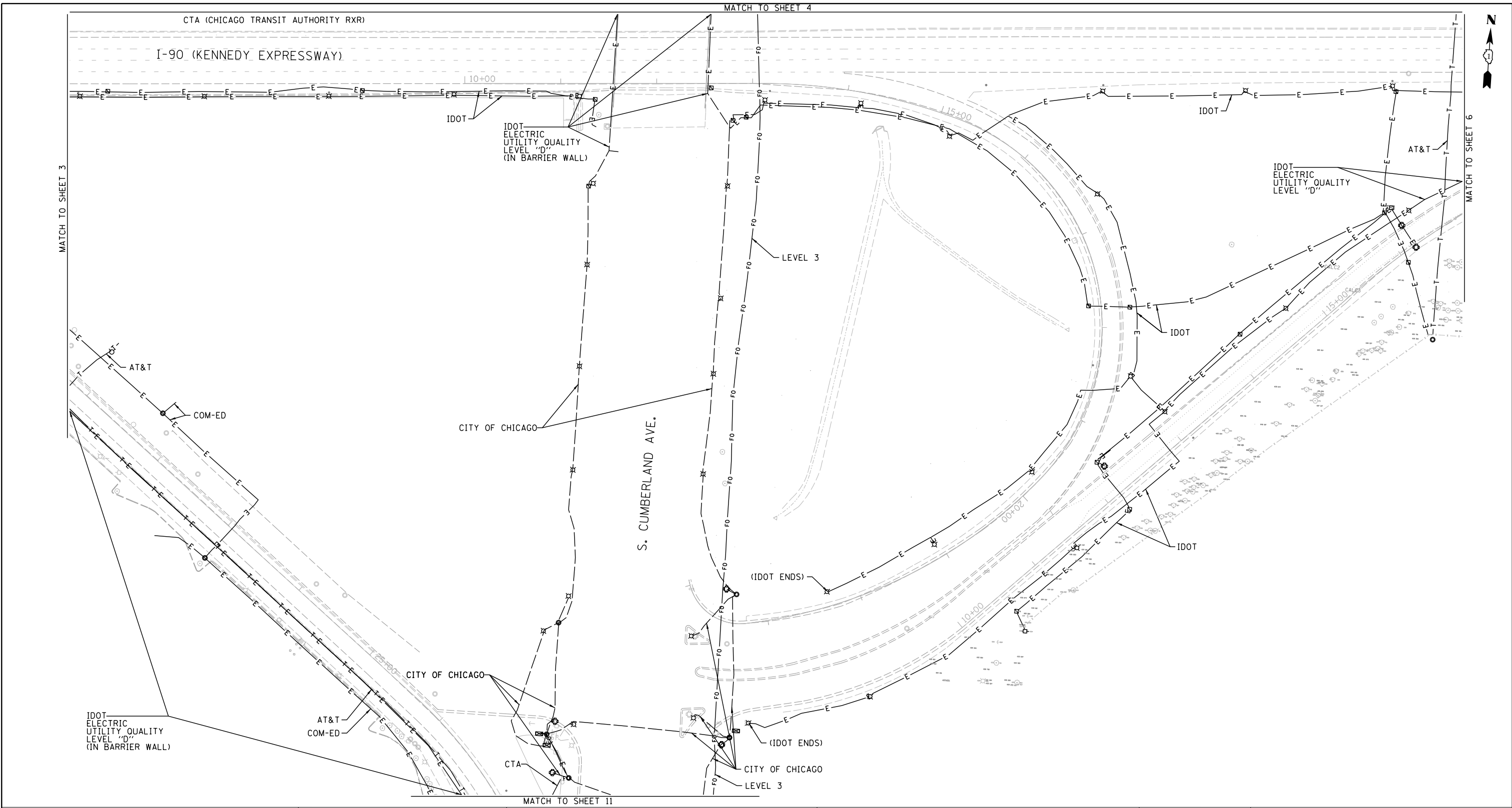
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | | |
|----------|---------|---------|
| DESIGNED | LP | REVISED |
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

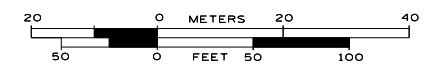
| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 219 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |



| UTILITY OWNERS | |
|----------------------------------|--|
| AT&T - FIBER OPTIC/TELEPHONE | |
| CITY OF CHICAGO - ELECTRIC | |
| CITY OF CHICAGO WATER - WATER | |
| CITY OF PARK RIDGE WATER - WATER | |
| CTA - ELECTRIC | |
| COM-ED - ELECTRIC | |
| COMCAST - CABLE TV/FIBER OPTIC | |
| IDOT - ELECTRIC/FIBER OPTIC | |
| IDOT ITS - FIBER OPTIC | |
| ISTHA - FIBER OPTIC | |
| LEVEL 3 - FIBER OPTIC | |
| MCI - FIBER OPTIC | |
| NICOR - GAS | |
| PEOPLE'S GAS - GAS | |
| UNKNOWN - FIBER OPTIC/UNKNOWN | |
| VERIZON - FIBER OPTIC | |
| XO - FIBER OPTIC | |

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TBE Job No. IL09510651
SUE Plan Page: 5 of 11

Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

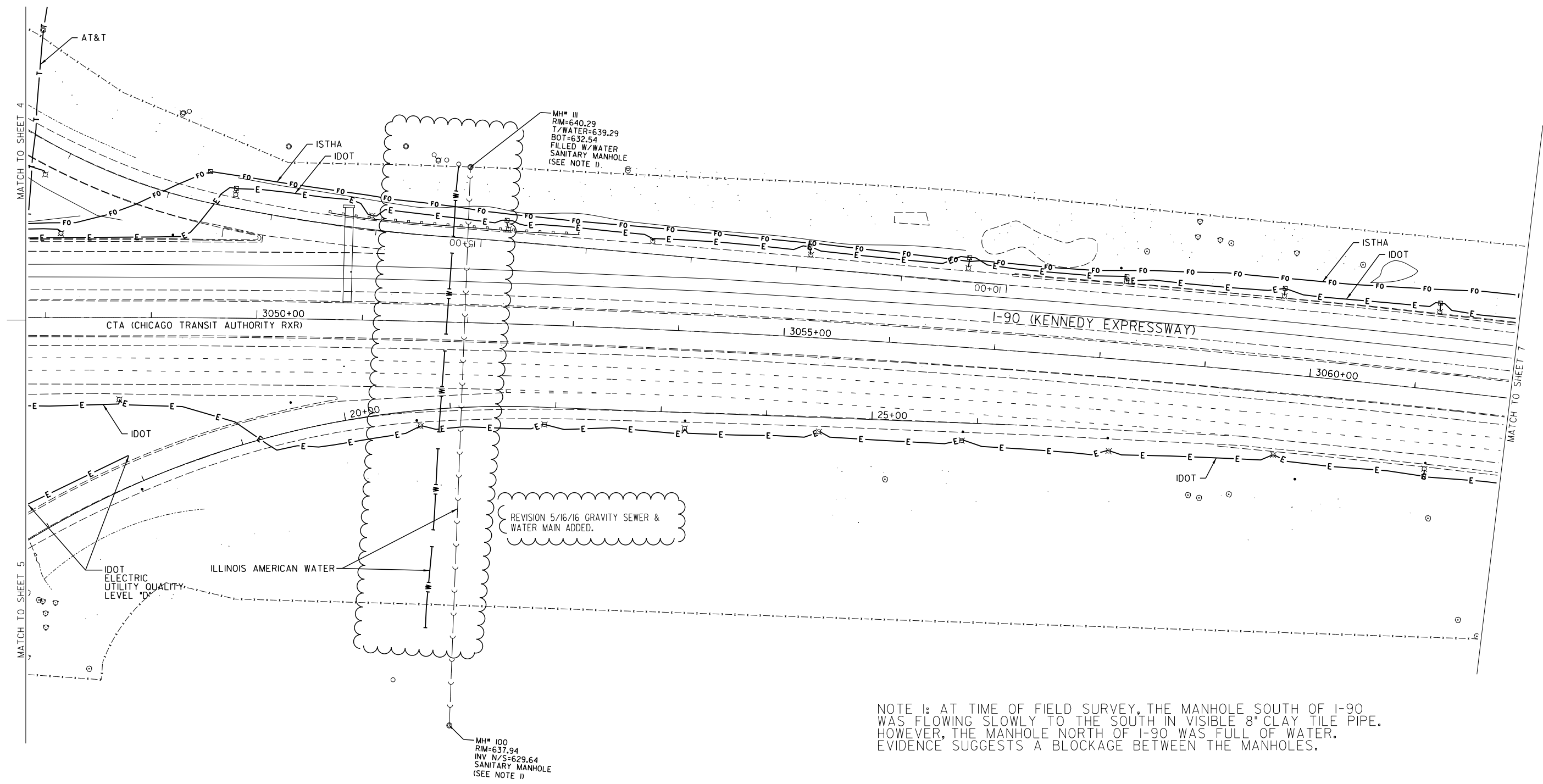
| DESIGNED | LP | REVISED |
|----------|---------|---------|
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|---------|--------|--------------|-----------|
| | N/A | Cook | 734 | 220 |

Contract No. 60Y38 & 60Y39
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.



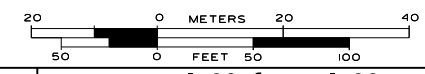
NOTE 1: AT TIME OF FIELD SURVEY, THE MANHOLE SOUTH OF I-90 WAS FLOWING SLOWLY TO THE SOUTH IN VISIBLE 8" CLAY TILE PIPE. HOWEVER, THE MANHOLE NORTH OF I-90 WAS FULL OF WATER. EVIDENCE SUGGESTS A BLOCKAGE BETWEEN THE MANHOLES.

| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| - - - - - | UNKNOWN |
| —O—O— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —S—S— | SANITARY SEWER |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|---------------------------------------|--|
| AT&T - FIBER OPTIC/TELEPHONE | |
| CITY OF CHICAGO - ELECTRIC | |
| ILLINOIS AMERICAN WATER - WATER/SEWER | |
| CITY OF PARK RIDGE WATER - WATER | |
| CTA - ELECTRIC | |
| COM-ED - ELECTRIC | |
| COMCAST - CABLE TV/FIBER OPTIC | |
| IDOT - ELECTRIC/FIBER OPTIC | |
| IDOT ITS - FIBER OPTIC | |
| ISTHA - FIBER OPTIC | |
| LEVEL 3 - FIBER OPTIC | |
| MCI - FIBER OPTIC | |
| NICOR - GAS | |
| PEOPLE'S GAS - GAS | |
| UNKNOWN - FIBER OPTIC/UNKNOWN | |
| VERIZON - FIBER OPTIC | |
| XO - FIBER OPTIC | |

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
 121 AIRPORT DRIVE, UNIT L, JOLIET, ILLINOIS 60431
 (815) 744-3720 clausenwhite@cwasurevey.com

TBE Job No. IL09510651
 SUE Plan Page: 6 of 11

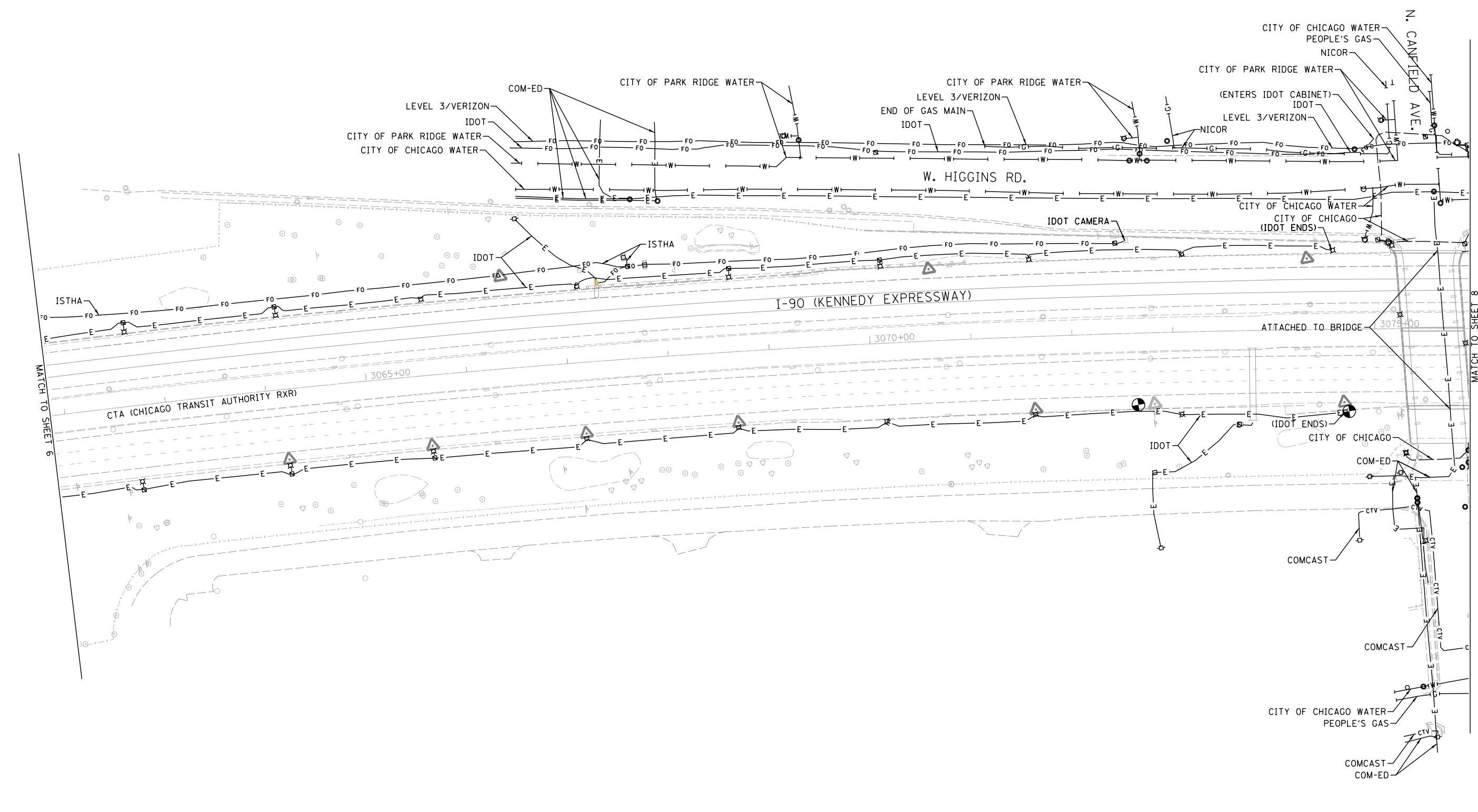
Utility Quality Level "A": Visually Verified Test Hole
 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

| DESIGNED | LP | REV: LP | REVISED | ADDED UTILITIES |
|----------|---------|----------|---------|-----------------|
| DRAWN | SRK | REV: KLC | REVISED | |
| CHECKED | MGR | REV: MGR | REVISED | |
| DATE | 7/22/15 | 5/16/16 | REVISED | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-90 to Harlem Avenue
Chicago, Illinois

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------|----------------------------|-----------|
| | N/A | Cook | 734 | 221 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |

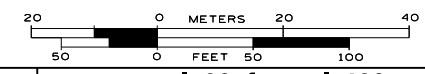


| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| --- | UNKNOWN |
| —O—O— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —FM—FM— | FORCE MAIN |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO WATER | - WATER |
| CITY OF PARK RIDGE WATER | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 7 of 11

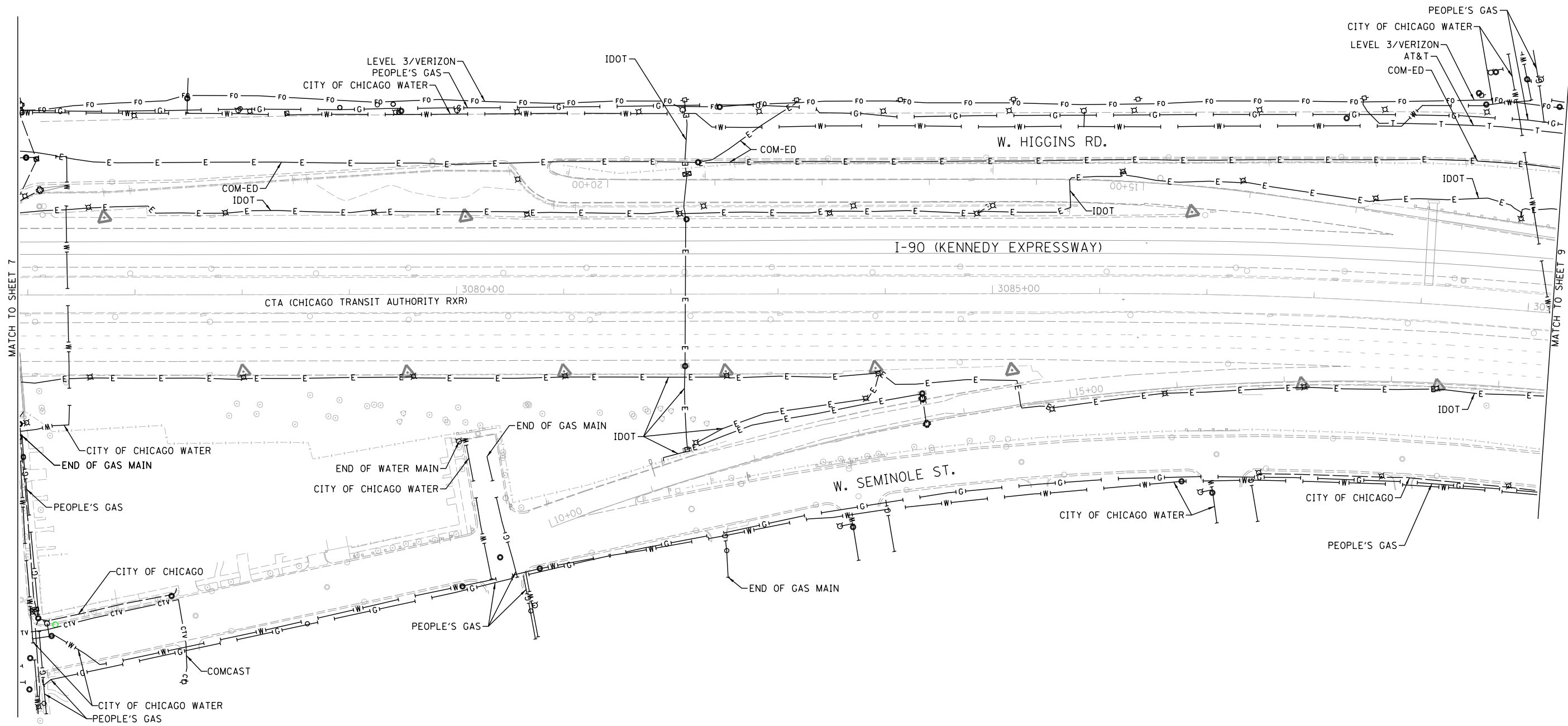
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | | |
|----------|---------|---------|
| DESIGNED | LP | REVISED |
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 222 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |

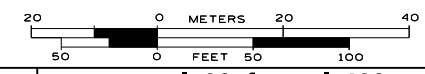


| | | |
|-------|-----|-------------------------|
| —A— | A | AERIAL |
| --- | --- | UNKNOWN |
| —O— | O | OIL |
| —CTV— | CTV | CABLE TV |
| —T— | T | TELEPHONE |
| —G— | G | GAS |
| —E— | E | ELECTRIC |
| —W— | W | TRAFFIC SIGNAL/LIGHTING |
| —W— | W | WATER |
| —FM— | FM | FORCE MAIN |
| —FO— | FO | FIBER OPTIC |
| ⊕ | | TBE TEST HOLE |
| EOI | | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO WATER | - WATER |
| CITY OF PARK RIDGE WATER | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 8 of 11

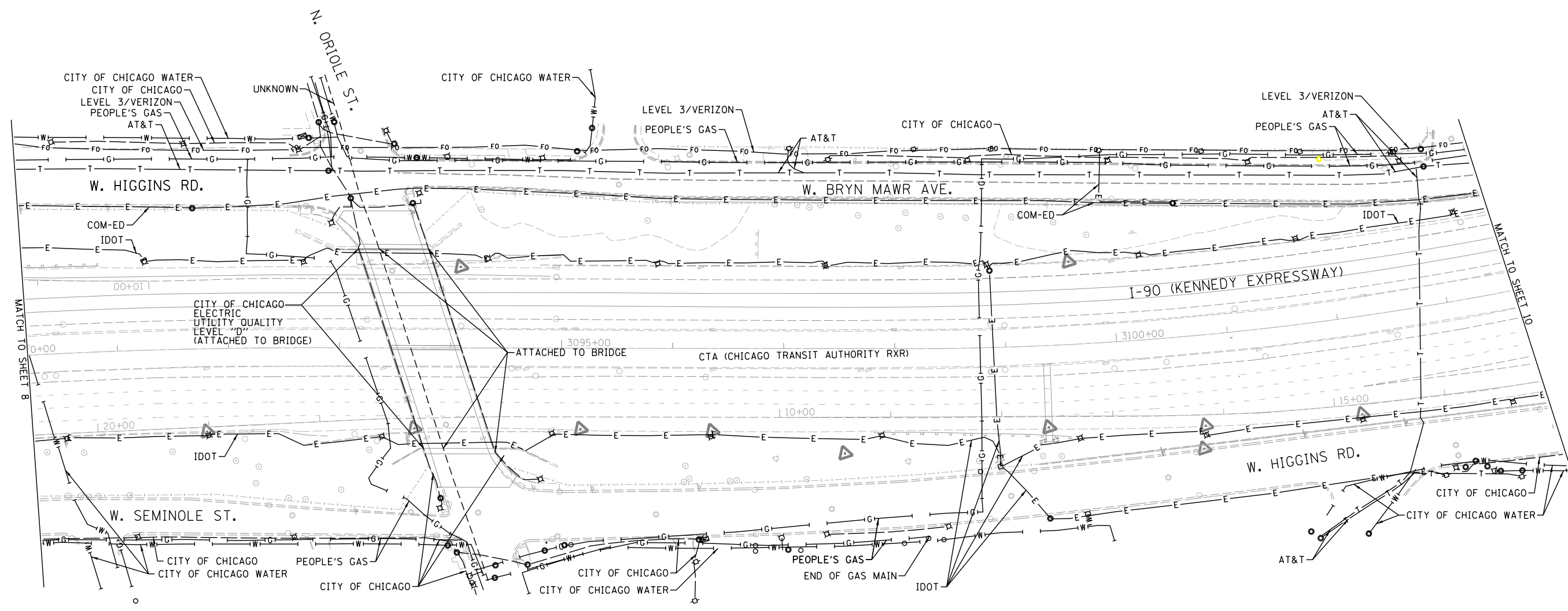
Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

| | | |
|----------|---------|---------|
| DESIGNED | LP | REVISED |
| DRAWN | SRK | REVISED |
| CHECKED | MGR | REVISED |
| DATE | 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 223 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |

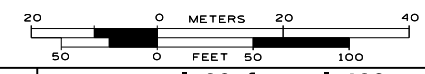


| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| - - - - | UNKNOWN |
| —O—O— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —G—G— | FORCE MAIN |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|--------------------------|-------------------------|
| AT&T | - FIBER OPTIC/TELEPHONE |
| CITY OF CHICAGO | - ELECTRIC |
| CITY OF CHICAGO WATER | - WATER |
| CITY OF PARK RIDGE WATER | - WATER |
| CTA | - ELECTRIC |
| COM-ED | - ELECTRIC |
| COMCAST | - CABLE TV/FIBER OPTIC |
| IDOT | - ELECTRIC/FIBER OPTIC |
| IDOT ITS | - FIBER OPTIC |
| ISTHA | - FIBER OPTIC |
| LEVEL 3 | - FIBER OPTIC |
| MCI | - FIBER OPTIC |
| NICOR | - GAS |
| PEOPLE'S GAS | - GAS |
| UNKNOWN | - FIBER OPTIC/UNKNOWN |
| VERIZON | - FIBER OPTIC |
| XO | - FIBER OPTIC |

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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 9 of 11

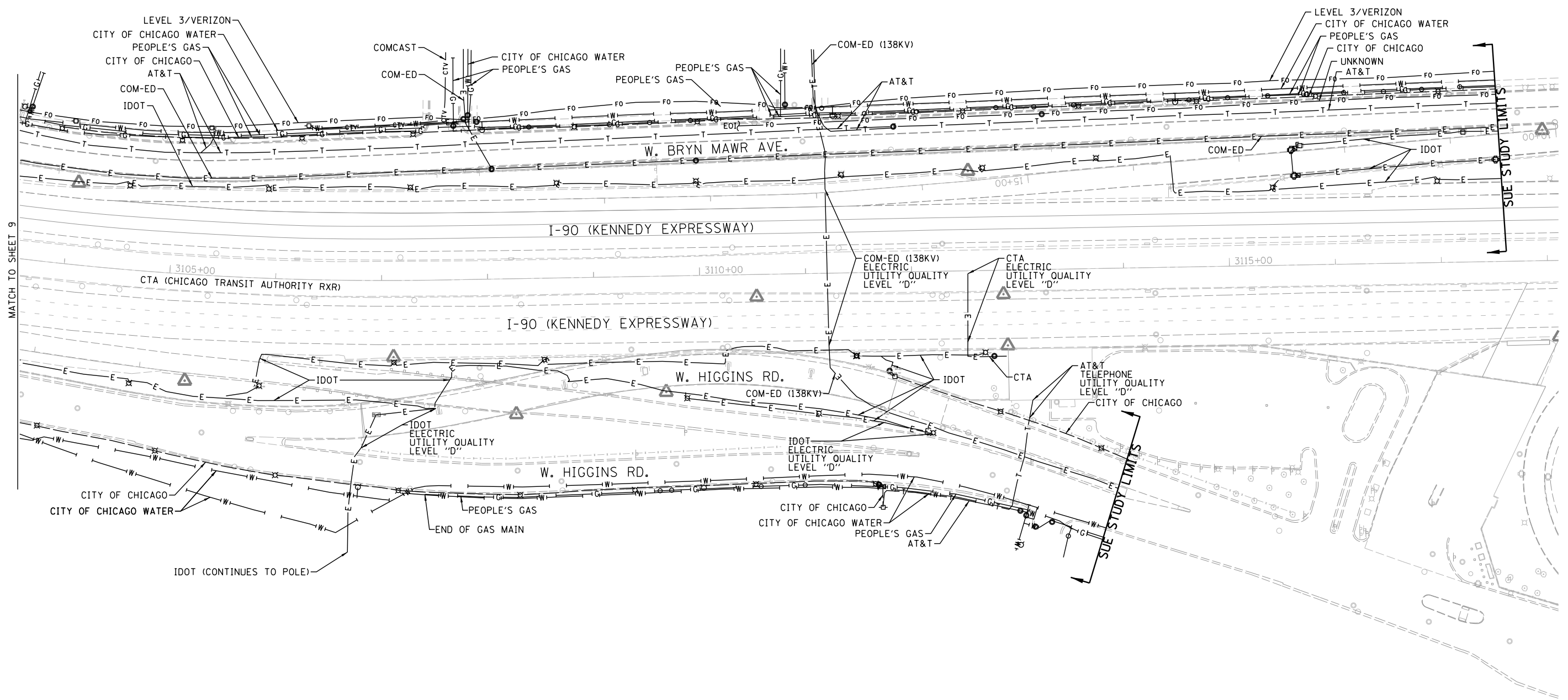
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | |
|--------------|---------|
| DESIGNED LP | REVISED |
| DRAWN SRK | REVISED |
| CHECKED MGR | REVISED |
| DATE 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|----------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 224 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT | IDOT Project No. | |

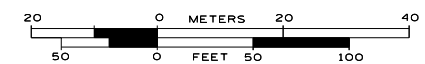


| | |
|-----------|-------------------------|
| —A—A— | AERIAL |
| - - - - | UNKNOWN |
| —O—O— | OIL |
| —CTV—CTV— | CABLE TV |
| —T—T— | TELEPHONE |
| —G—G— | GAS |
| —E—E— | ELECTRIC |
| —W—W— | TRAFFIC SIGNAL/LIGHTING |
| —W—W— | WATER |
| —FO—FO— | FORCE MAIN |
| —FO—FO— | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|----------------------------------|--|
| AT&T - FIBER OPTIC/TELEPHONE | |
| CITY OF CHICAGO - ELECTRIC | |
| CITY OF CHICAGO WATER - WATER | |
| CITY OF PARK RIDGE WATER - WATER | |
| CTA - ELECTRIC | |
| COM-ED - ELECTRIC | |
| COMCAST - CABLE TV/FIBER OPTIC | |
| IDOT - ELECTRIC/FIBER OPTIC | |
| IDOT ITS - FIBER OPTIC | |
| ISTHA - FIBER OPTIC | |
| LEVEL 3 - FIBER OPTIC | |
| MCI - FIBER OPTIC | |
| NICOR - GAS | |
| PEOPLE'S GAS - GAS | |
| UNKNOWN - FIBER OPTIC/UNKNOWN | |
| VERIZON - FIBER OPTIC | |
| XO - FIBER OPTIC | |

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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 10 of 11

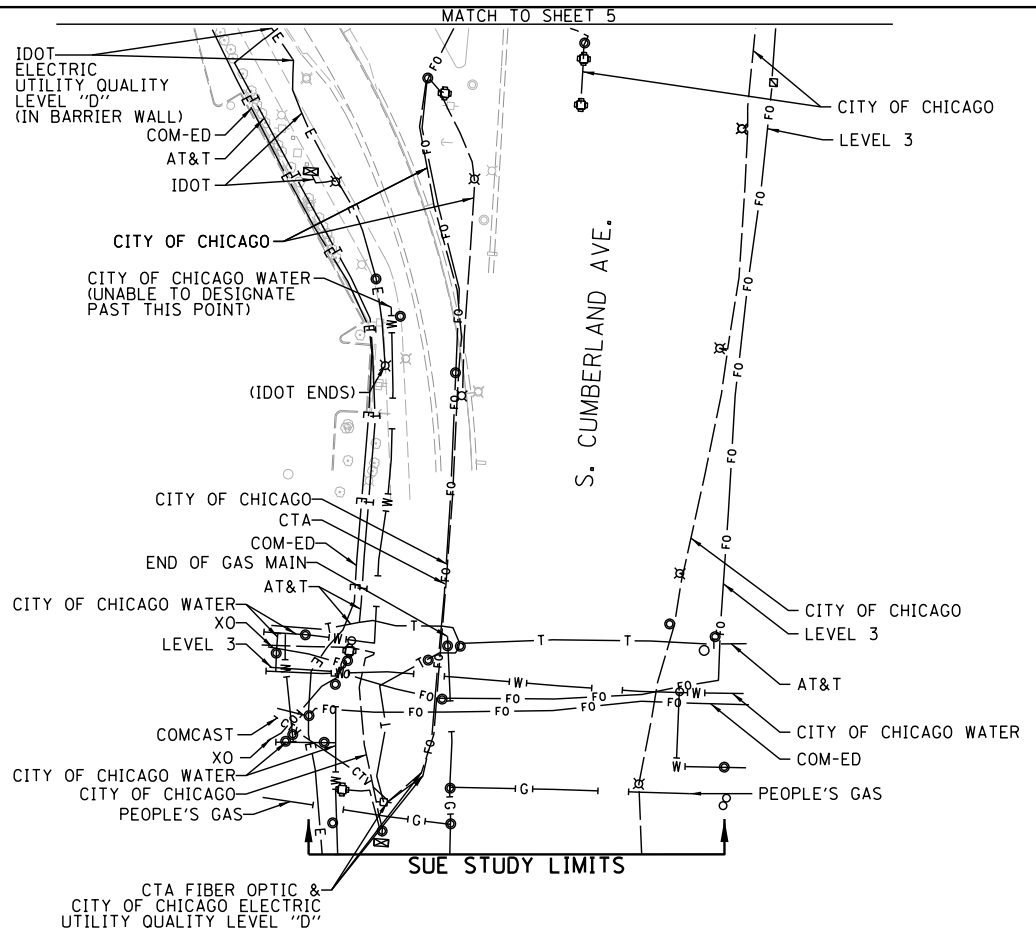
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | |
|--------------|---------|
| DESIGNED LP | REVISED |
| DRAWN SRK | REVISED |
| CHECKED MGR | REVISED |
| DATE 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 225 |
| FED. ROAD DIST. NO. | | ILLINOIS | IDOT Project No. | |

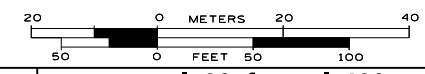


| | |
|---------------|-------------------------|
| — A — A — | AERIAL |
| - - - - - | UNKNOWN |
| — 0 — 0 — | OIL |
| — CTV — CTV — | CABLE TV |
| — T — T — | TELEPHONE |
| — G — G — | GAS |
| — E — E — | ELECTRIC |
| — — — | TRAFFIC SIGNAL/LIGHTING |
| — W — W — | WATER |
| — FM — FM — | FORCE MAIN |
| — FO — FO — | FIBER OPTIC |
| ⊕ | TBE TEST HOLE |
| EOI | END OF INFORMATION |

| UTILITY OWNERS | |
|----------------------------------|--|
| AT&T - FIBER OPTIC/TELEPHONE | |
| CITY OF CHICAGO - ELECTRIC | |
| CITY OF CHICAGO WATER - WATER | |
| CITY OF PARK RIDGE WATER - WATER | |
| CTA - ELECTRIC | |
| COM-ED - ELECTRIC | |
| COMCAST - CABLE TV/FIBER OPTIC | |
| IDOT - ELECTRIC/FIBER OPTIC | |
| IDOT ITS - FIBER OPTIC | |
| ISTHA - FIBER OPTIC | |
| LEVEL 3 - FIBER OPTIC | |
| MCI - FIBER OPTIC | |
| NICOR - GAS | |
| PEOPLE'S GAS - GAS | |
| UNKNOWN - FIBER OPTIC/UNKNOWN | |
| VERIZON - FIBER OPTIC | |
| XO - FIBER OPTIC | |

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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510651
SUE Plan Page: 11 of 11

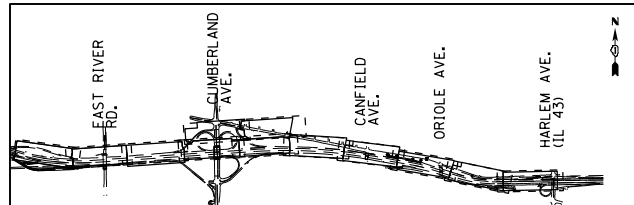
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

| | |
|--------------|---------|
| DESIGNED LP | REVISED |
| DRAWN SRK | REVISED |
| CHECKED MGR | REVISED |
| DATE 7/22/15 | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

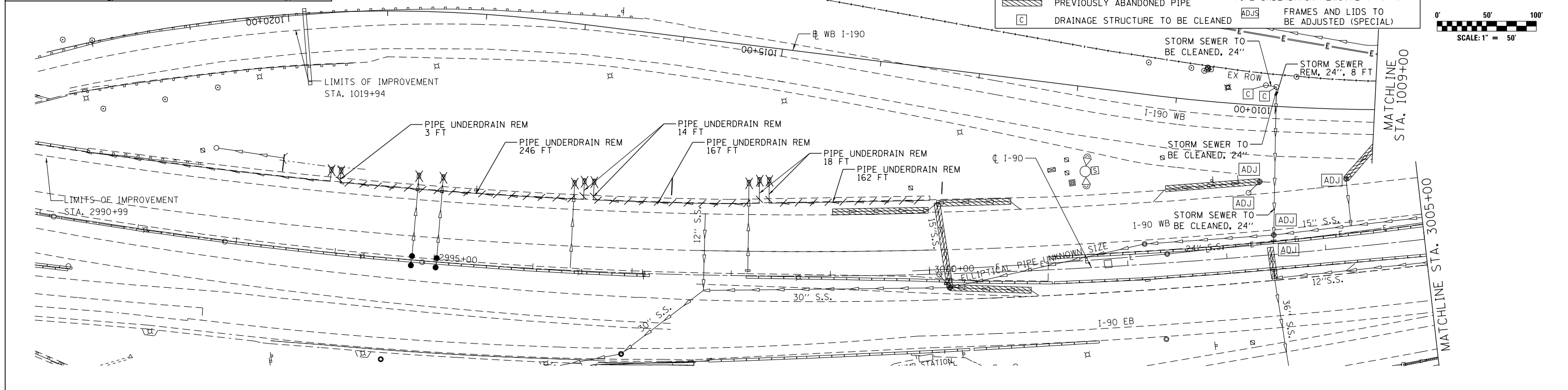
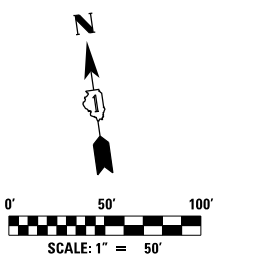
I-90 from I-190 to Harlem Avenue
Chicago, Illinois

| | | | | |
|---------------------|---------|------------------|----------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | N/A | Cook | 734 | 226 |
| FED. ROAD DIST. NO. | | ILLINOIS | Contract No. 60Y38 & 60Y39 | |
| | | IDOT Project No. | | |



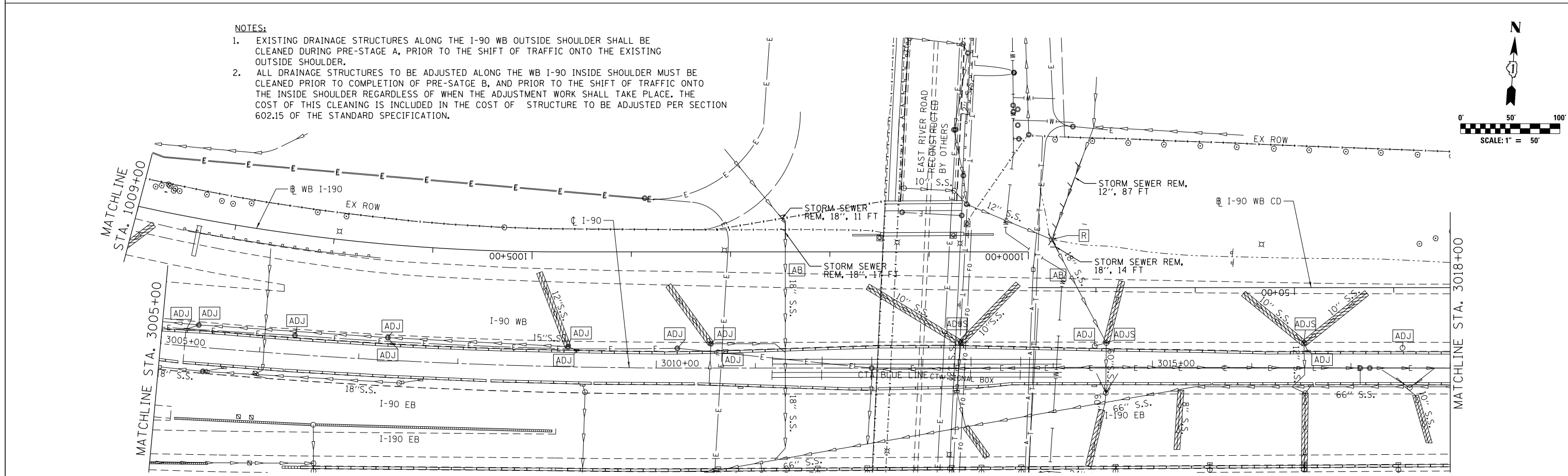
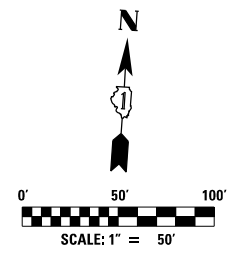
EXISTING DRAINAGE REMOVAL LEGEND

| | | | |
|-----------|----------------------------------|--------|--|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | [X] | INLET REMOVAL |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | [X] | CATCH BASIN REMOVAL |
| [AB] | FILLING EXISTING STORM SEWERS | [X] | MANHOLE REMOVAL |
| [Hatched] | PREVIOUSLY ABANDONED PIPE | [X] | END SECTION REMOVAL |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | [X] | STORM SEWER REMOVAL |
| | | [X] | PIPE UNDERDRAIN REMOVAL |
| | | [ADJS] | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) |



NOTES:

- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
- ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.



exp U.S. Services Inc.
Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|--------------------|--------------|-----------|
| USER NAME = *USER* | DESIGNED HDU | REVISED - |
| DRAWN HDU | REVISED - | |
| CHECKED SH | REVISED - | |
| DATE 01/19/2018 | REVISED - | |

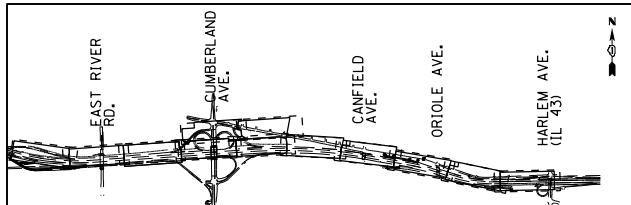
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
EXISTING DRAINAGE REMOVAL PLAN**

SCALE: 1"=50' SHEET NO. 1 OF 7 SHEETS STA. 3005+00 TO STA. 3018+00

| | | | | |
|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 227 |
| | | | | CONTRACT NO. 60Y39 |
| ILLINOIS FED. AID PROJECT | | | | |

DRN-REM-01

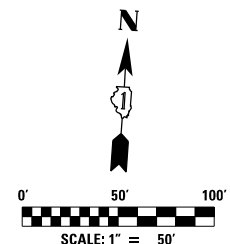
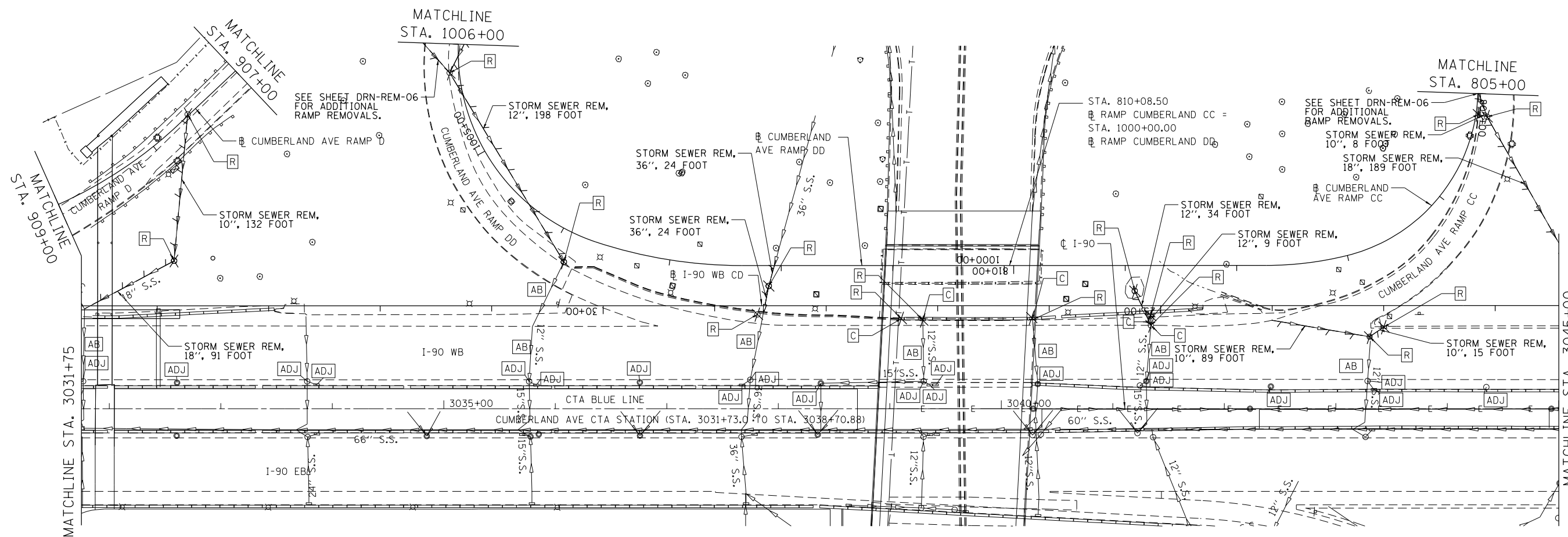
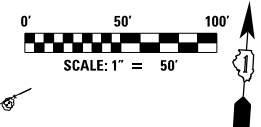
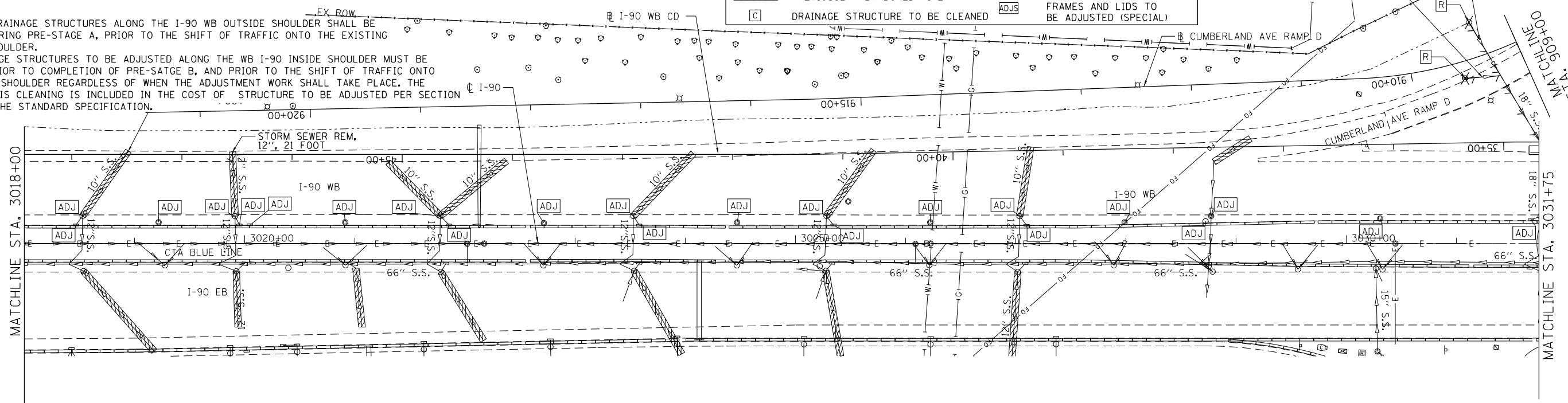


EXISTING DRAINAGE REMOVAL LEGEND

| | | | |
|-------|----------------------------------|--|-------|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | INLET REMOVAL | * |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | CATCH BASIN REMOVAL | ⊗ |
| [AB] | FILLING EXISTING STORM SEWERS | MANHOLE REMOVAL | ⊗ |
| [C] | PREVIOUSLY ABANDONED PIPE | END SECTION REMOVAL | X |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | STORM SEWER REMOVAL | — |
| | | PIPE UNDERDRAIN REMOVAL | — |
| | | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | [ADJ] |

NOTE:

- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
- ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.



DRN-REM-02

exp U.S. Services Inc.
Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED HDU | REVISED - |
| DRAWN HDU | REVISED - | |
| PLOT SCALE = #SCALE# | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

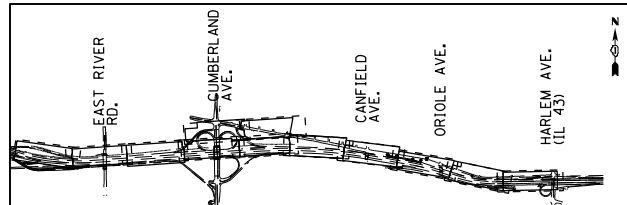
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
EXISTING DRAINAGE REMOVAL PLAN**

SCALE: 1"=50' SHEET NO. 2 OF 7 SHEETS STA. 3018+00 TO STA. 3045+00

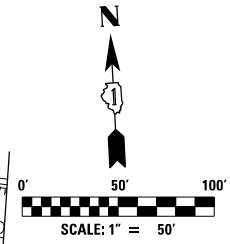
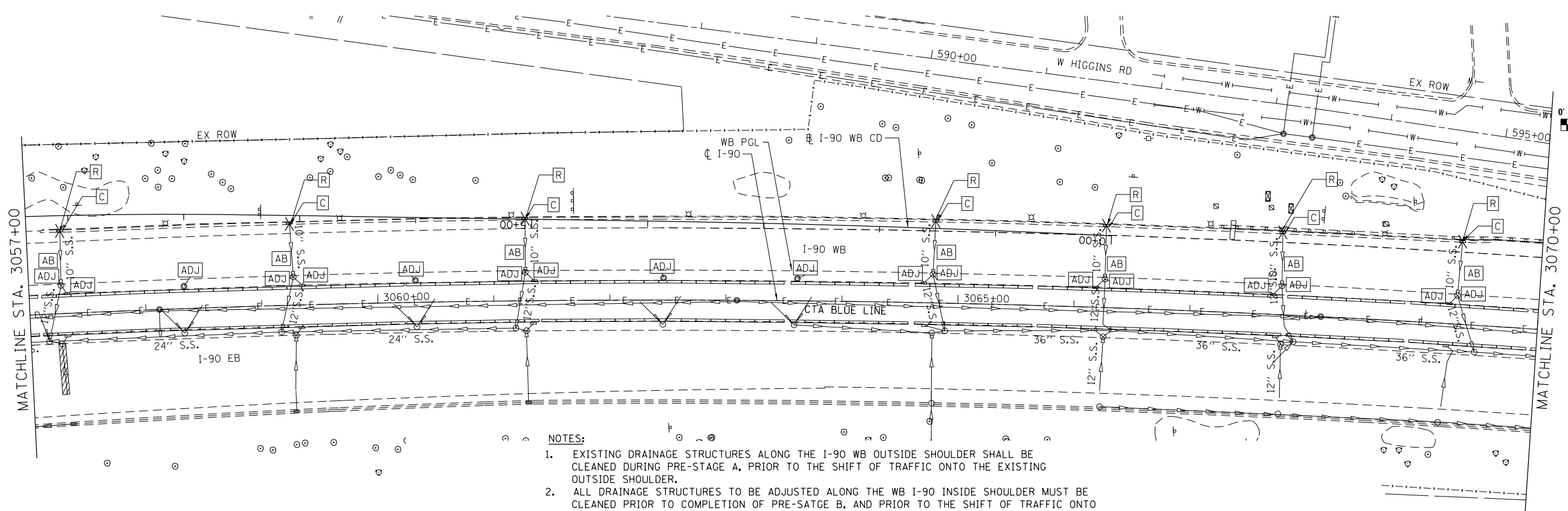
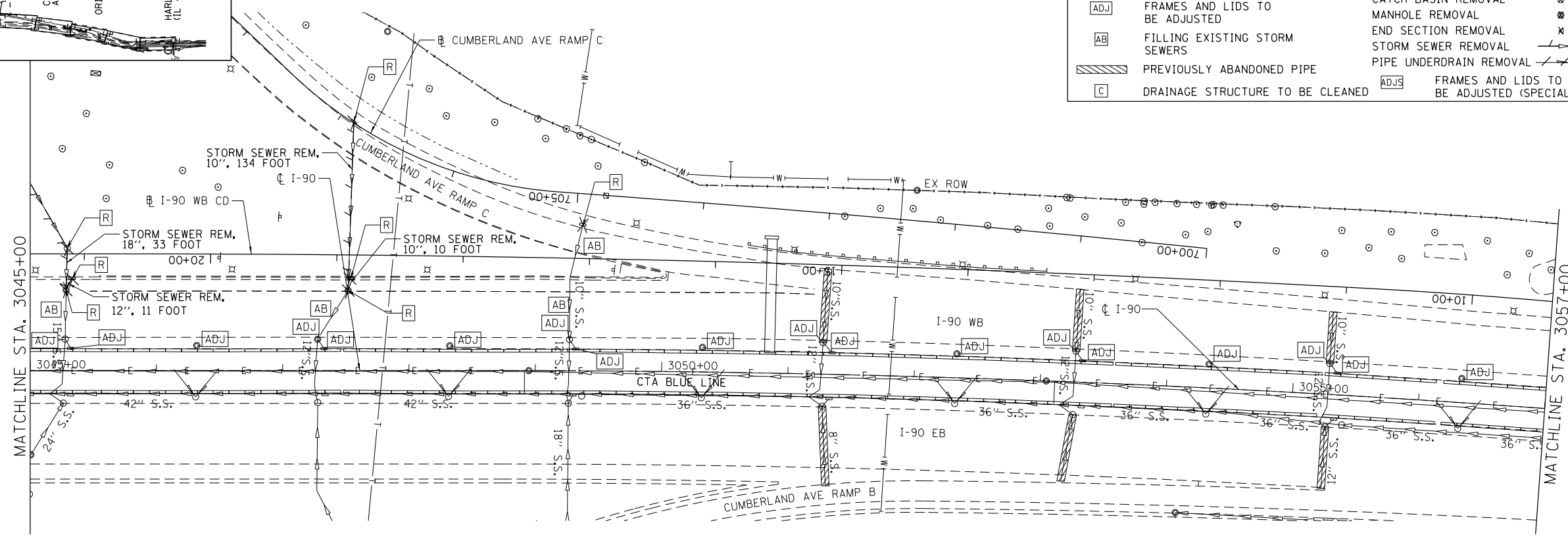
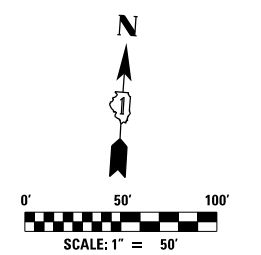
| | | | | |
|---------------------------|-------------------|--------|--------------|--------------------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 228 |
| | | | | CONTRACT NO. 60Y39 |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME = #FILE#



EXISTING DRAINAGE REMOVAL LEGEND

| | | | |
|-------|----------------------------------|--------|--|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | [*] | INLET REMOVAL |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | [⊗] | CATCH BASIN REMOVAL |
| [AB] | FILLING EXISTING STORM SEWERS | [⊗] | MANHOLE REMOVAL |
| [//] | PREVIOUSLY ABANDONED PIPE | [*] | END SECTION REMOVAL |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | [//] | STORM SEWER REMOVAL |
| | | [//] | PIPE UNDERDRAIN REMOVAL |
| | | [ADJ*] | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) |

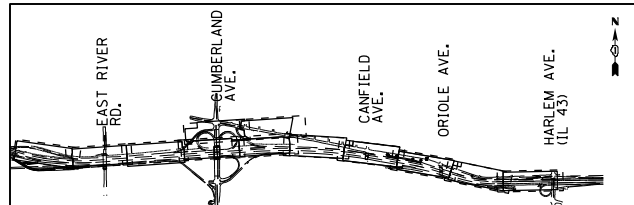


- NOTES:**
- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
 - ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.

DRN-REM-03

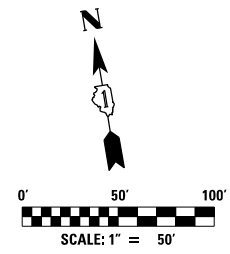
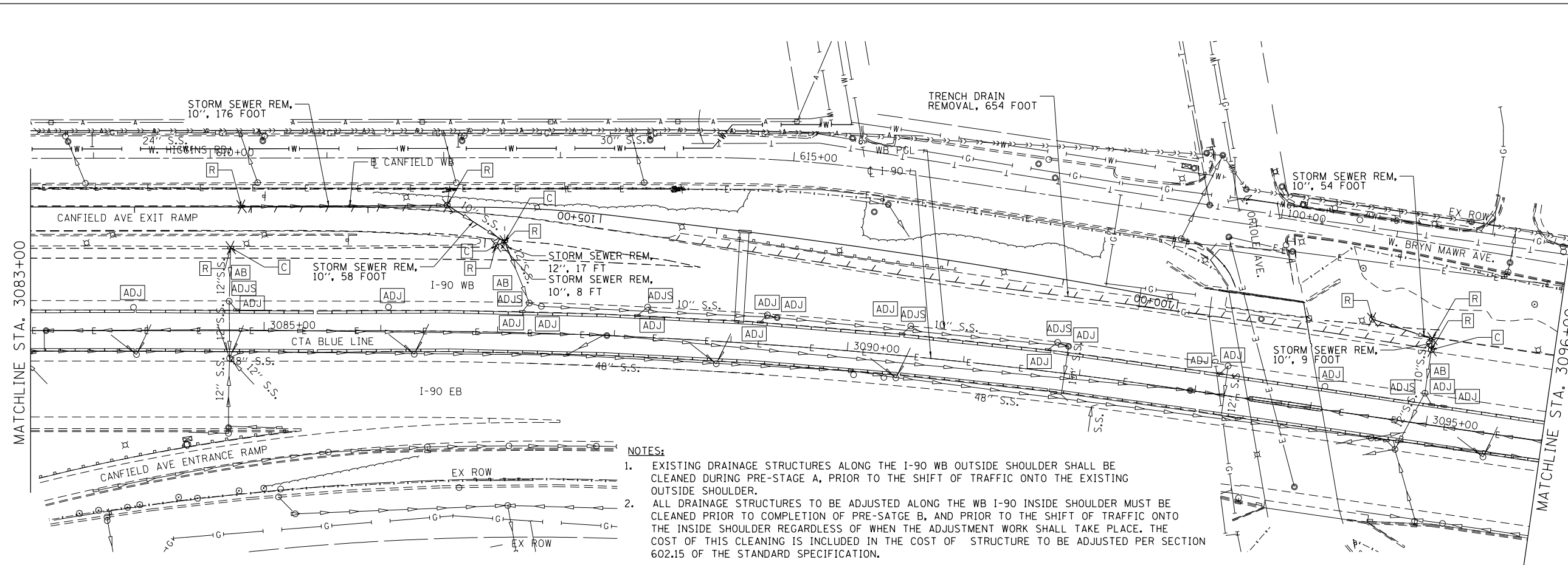
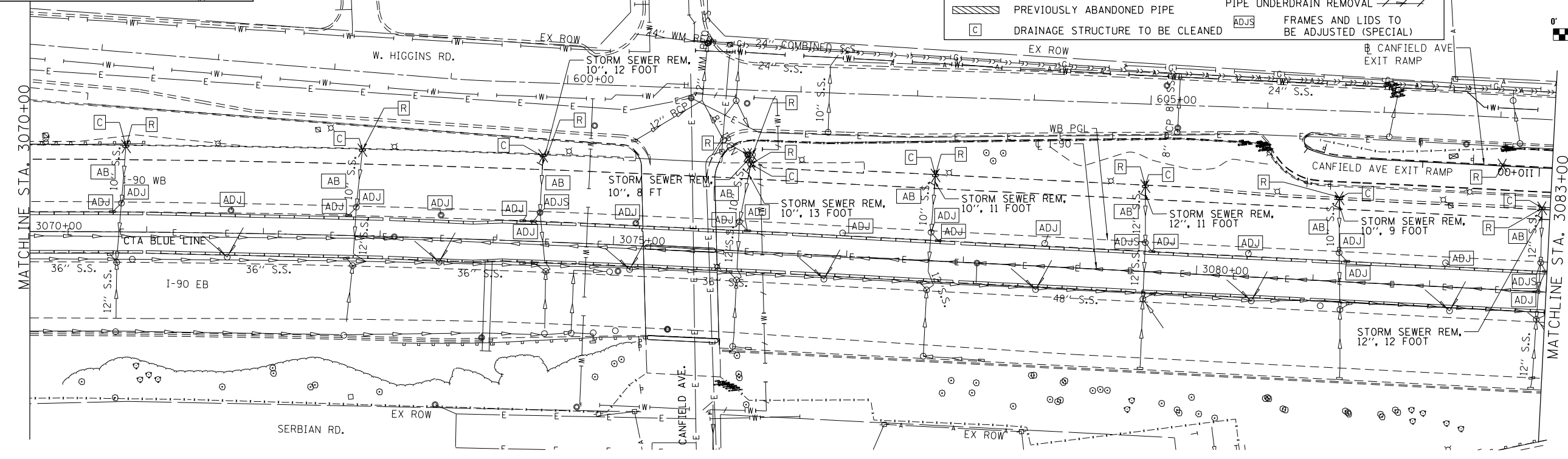
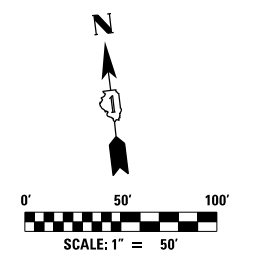
| | | | | | | | | | | | |
|---|-----------------------|-----------------|-----------|---|---|---------------------------|---------------------------|------------------------------|--------------------|---------------|--|
| exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE EXISTING DRAINAGE REMOVAL PLAN | F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 229 | |
| | PLOT SCALE = *SCALE* | CHECKED SH | REVISED - | | | SCALE: 1"=50' | SHEET NO. 3 OF 7 SHEETS | STA. 3045+00 TO STA. 3070+00 | CONTRACT NO. 60Y39 | | |
| | PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

FILE NAME = #FILE#



EXISTING DRAINAGE REMOVAL LEGEND

| | | | |
|-----------|----------------------------------|----------|--|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | [*] | EXISTING REMOVAL |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | [X] | INLET REMOVAL |
| [AB] | FILLING EXISTING STORM SEWERS | [O] | CATCH BASIN REMOVAL |
| [Hatched] | PREVIOUSLY ABANDONED PIPE | [M] | MANHOLE REMOVAL |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | [X] | END SECTION REMOVAL |
| | | [S] | STORM SEWER REMOVAL |
| | | [Dashed] | PIPE UNDERDRAIN REMOVAL |
| | | [ADJS] | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) |



- NOTES:**
- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
 - ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.

exp U.S. Services Inc.
Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = *USER* | DESIGNED HDU | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN HDU | REVISED - |
| PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - |
| | DATE 01/19/2018 | REVISED - |

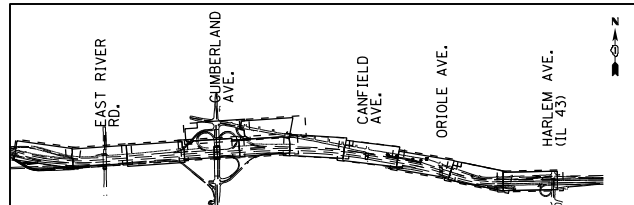
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
EXISTING DRAINAGE REMOVAL PLAN**

SCALE: SHEET NO. 4 OF 7 SHEETS STA. 3070+00 TO STA. 3096+00

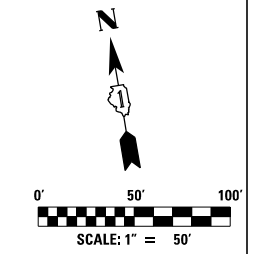
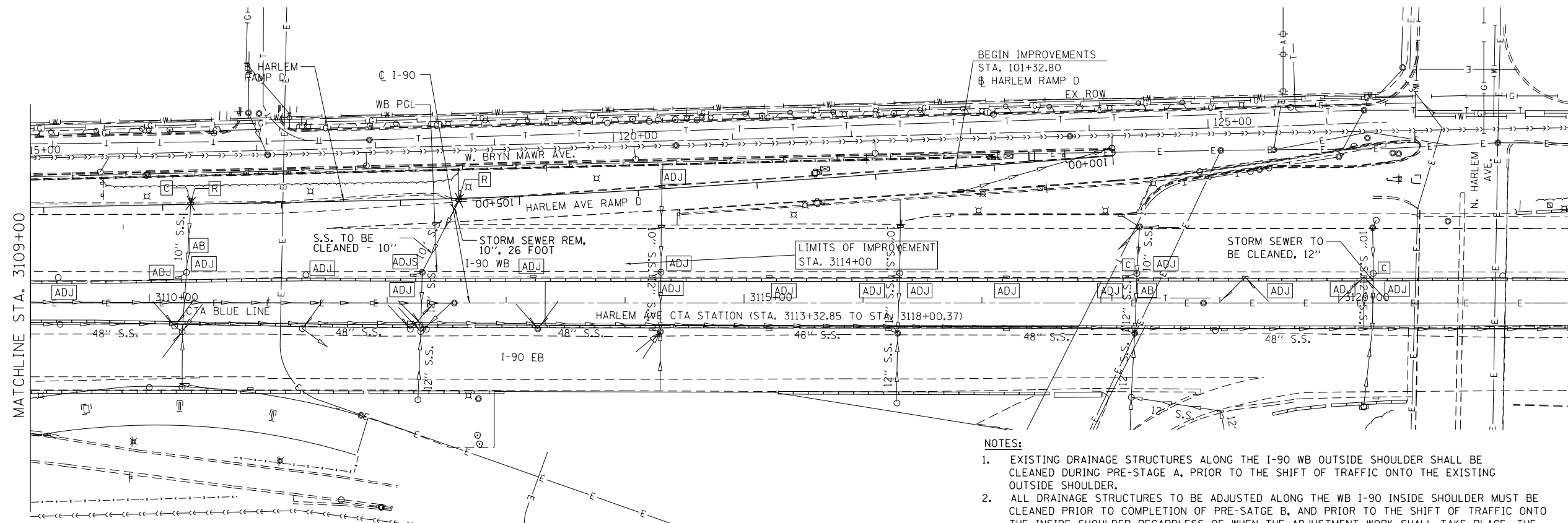
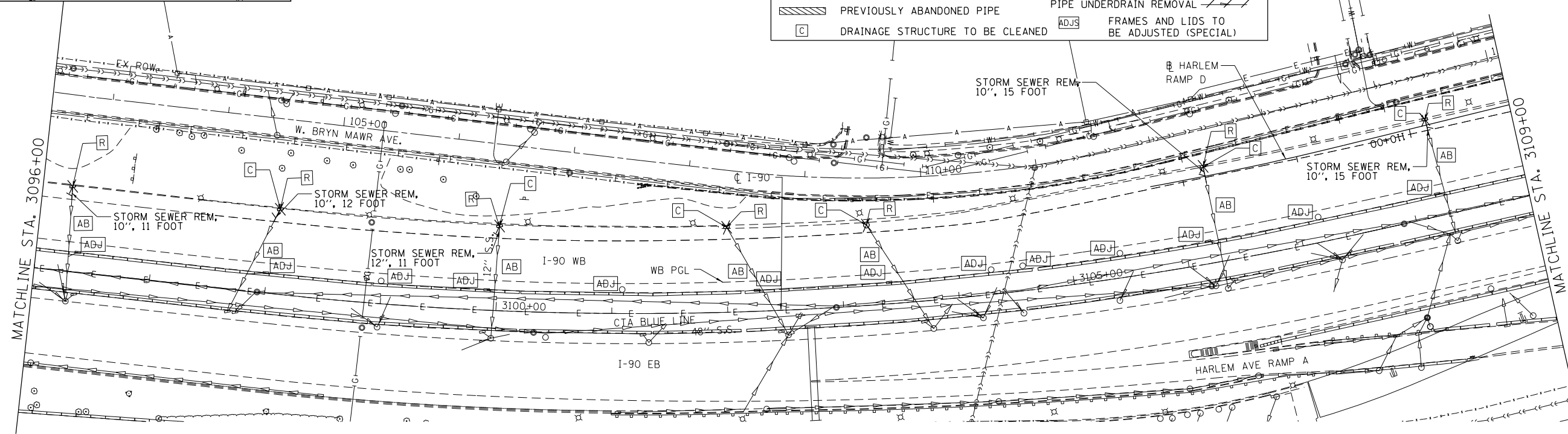
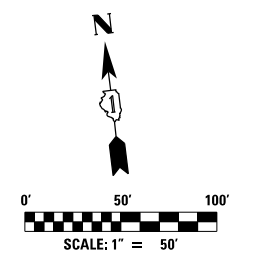
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|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 230 |
| | | | | CONTRACT NO. 60Y39 |
| ILLINOIS FED. AID PROJECT | | | | |

DRN-REM-04



EXISTING DRAINAGE REMOVAL LEGEND

| | | | |
|-----------|----------------------------------|--------|--|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | [X] | INLET REMOVAL |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | [O] | CATCH BASIN REMOVAL |
| [AB] | FILLING EXISTING STORM SEWERS | [M] | MANHOLE REMOVAL |
| [Hatched] | PREVIOUSLY ABANDONED PIPE | [X] | END SECTION REMOVAL |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | [S] | STORM SEWER REMOVAL |
| | | [U] | PIPE UNDERDRAIN REMOVAL |
| | | [ADJS] | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) |



- NOTES:**
- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
 - ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.

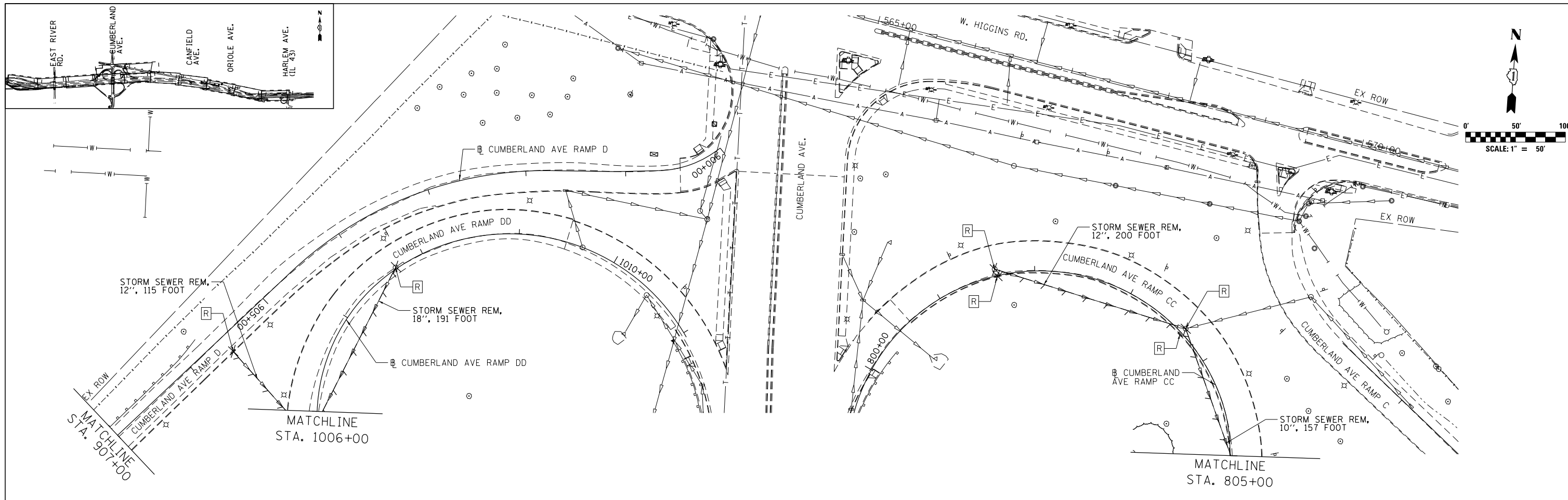
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|---|-----------------------|-----------------|-----------|
| exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - |
| | PLOT SCALE = *SCALE* | DRAWN HDU | REVISED - |
| | PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - |
| | | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-------------------------|------------------------------|--|
| I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE | | | |
| EXISTING DRAINAGE REMOVAL PLAN | | | |
| SCALE: 1"=50' | SHEET NO. 5 OF 7 SHEETS | STA. 3096+00 TO STA. 3114+00 | |

| | | | | |
|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 231 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

DRN-REM-05



EXISTING DRAINAGE REMOVAL LEGEND

| | | EXISTING REMOVAL | |
|-----------|----------------------------------|-------------------------|--|
| [R] | DRAINAGE STRUCTURE TO BE REMOVED | INLET REMOVAL | ⊗ |
| [ADJ] | FRAMES AND LIDS TO BE ADJUSTED | CATCH BASIN REMOVAL | ⊗ |
| [AB] | FILLING EXISTING STORM SEWERS | MANHOLE REMOVAL | ⊗ |
| [Hatched] | PREVIOUSLY ABANDONED PIPE | END SECTION REMOVAL | ⊗ |
| [C] | DRAINAGE STRUCTURE TO BE CLEANED | STORM SEWER REMOVAL | —/—/— |
| | | PIPE UNDERDRAIN REMOVAL | —/—/— |
| | | [ADJ] | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) |

NOTES:

- EXISTING DRAINAGE STRUCTURES ALONG THE I-90 WB OUTSIDE SHOULDER SHALL BE CLEANED DURING PRE-STAGE A, PRIOR TO THE SHIFT OF TRAFFIC ONTO THE EXISTING OUTSIDE SHOULDER.
- ALL DRAINAGE STRUCTURES TO BE ADJUSTED ALONG THE WB I-90 INSIDE SHOULDER MUST BE CLEANED PRIOR TO COMPLETION OF PRE-STAGE B, AND PRIOR TO THE SHIFT OF TRAFFIC ONTO THE INSIDE SHOULDER REGARDLESS OF WHEN THE ADJUSTMENT WORK SHALL TAKE PLACE. THE COST OF THIS CLEANING IS INCLUDED IN THE COST OF STRUCTURE TO BE ADJUSTED PER SECTION 602.15 OF THE STANDARD SPECIFICATION.

STORM SEWER REMOVAL 10" (55100400)

| SHEET | STATION FROM | STATION TO | LENGTH (FT) |
|------------|--------------|------------|-------------|
| DRN-REM-02 | 3018+94.48 | 3018+79.01 | 27 |
| DRN-REM-02 | 3031+07.84 | 3031+40.27 | 33 |
| DRN-REM-02 | 3032+70.26 | 3032+58.05 | 132 |
| DRN-REM-02 | 3042+42.42 | 3043+30.28 | 89 |
| DRN-REM-02 | 3043+42.99 | 3043+30.30 | 15 |
| DRN-REM-02 | 3044+27.80 | 3044+35.62 | 8 |
| DRN-REM-03 | 3047+56.33 | 3047+51.82 | 134 |
| DRN-REM-03 | 3047+53.45 | 3047+51.82 | 10 |
| DRN-REM-04 | 3074+36.86 | 3074+36.67 | 12 |
| DRN-REM-04 | 3076+11.09 | 3076+14.04 | 8 |
| DRN-REM-04 | 3076+14.04 | 3076+12.22 | 13 |
| DRN-REM-04 | 3077+72.56 | 3077+72.27 | 11 |
| DRN-REM-04 | 3081+19.16 | 3081+19.58 | 9 |
| DRN-REM-04 | 3084+80.64 | 3086+55.48 | 176 |
| DRN-REM-04 | 3086+55.48 | 3087+04.23 | 58 |
| DRN-REM-04 | 3086+96.99 | 3087+04.23 | 8 |
| DRN-REM-04 | 3094+41.51 | 3094+95.01 | 54 |
| DRN-REM-04 | 3094+95.01 | 3094+95.35 | 9 |
| DRN-REM-05 | 3096+25.37 | 3096+25.84 | 11 |
| DRN-REM-05 | 3098+05.50 | 3098+01.19 | 12 |
| DRN-REM-05 | 3100+00.10 | 3099+99.71 | 11 |
| DRN-REM-05 | 3106+27.11 | 3106+27.52 | 15 |
| DRN-REM-05 | 3108+26.26 | 3108+26.95 | 15 |
| DRN-REM-05 | 3112+60.35 | 3112+48.42 | 26 |
| DRN-REM-06 | 3043+83.07 | 3044+35.62 | 157 |
| TOTAL: | | | 1055 |

STORM SEWER REMOVAL 12" (55100500)

| SHEET | STATION FROM | STATION TO | LENGTH (FT) |
|------------|--------------|------------|-------------|
| DRN-REM-01 | 3014+28.92 | 3013+98.50 | 87 |
| DRN-REM-02 | 3019+88.96 | 3019+89.80 | 21 |
| DRN-REM-02 | 3035+05.23 | 3036+07.65 | 198 |
| DRN-REM-02 | 3041+19.72 | 3041+34.19 | 34 |
| DRN-REM-02 | 3041+33.80 | 3041+34.19 | 9 |
| DRN-REM-03 | 3045+33.43 | 3045+28.46 | 11 |
| DRN-REM-04 | 3079+52.58 | 3079+52.15 | 11 |
| DRN-REM-04 | 3082+93.03 | 3082+93.31 | 11 |
| DRN-REM-04 | 3087+04.29 | 3087+10.77 | 17 |
| DRN-REM-06 | 3034+28.54 | 3035+05.23 | 115 |
| DRN-REM-06 | 3041+91.96 | 3043+83.07 | 200 |
| TOTAL: | | | 715 |

STORM SEWER REMOVAL 18" (55100900)

| SHEET | STATION FROM | STATION TO | LENGTH (FT) |
|------------|--------------|------------|-------------|
| DRN-REM-01 | 3011+22.98 | 3011+30.07 | 11 |
| DRN-REM-01 | 3011+30.07 | 3011+30.07 | 17 |
| DRN-REM-01 | 3014+01.35 | 3014+05.07 | 14 |
| DRN-REM-02 | 3031+11.50 | 3031+77.75 | 130 |
| DRN-REM-02 | 3032+58.05 | 3031+77.75 | 91 |
| DRN-REM-02 | 3044+35.62 | 3045+29.38 | 189 |
| DRN-REM-03 | 3045+29.38 | 3045+28.46 | 33 |
| DRN-REM-06 | 3035+91.76 | 3035+05.23 | 191 |
| TOTAL: | | | 677 |

STORM SEWER REMOVAL 24" (55101200)

| SHEET | STATION FROM | STATION TO | LENGTH (FT) |
|------------|--------------|------------|-------------|
| DRN-REM-01 | 3003+64.50 | 303+63.57 | 8 |
| TOTAL: | | | 8 |

STORM SEWER REMOVAL 36" (55101600)

| SHEET | STATION FROM | STATION TO | LENGTH (FT) |
|------------|--------------|------------|-------------|
| DRN-REM-02 | 3037+97.78 | 3037+91.38 | 24 |
| DRN-REM-02 | 3037+91.38 | 3037+86.79 | 24 |
| TOTAL: | | | 48 |

NOTE: SEE SHEET DRN-REM-07 FOR ADDITIONAL REMOVAL SCHEDULES.

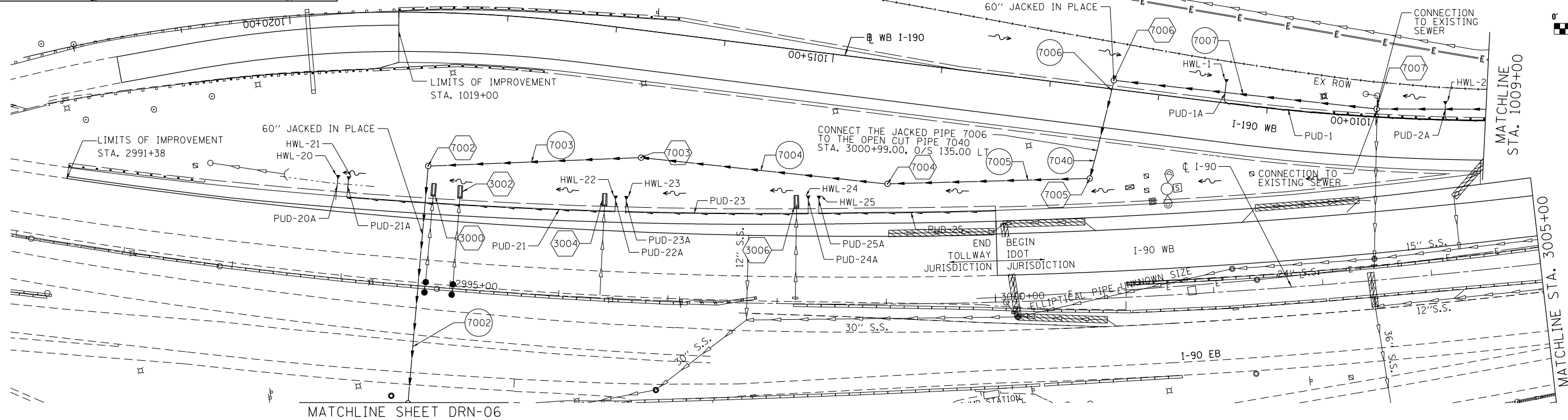
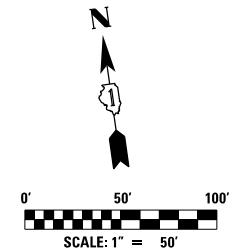
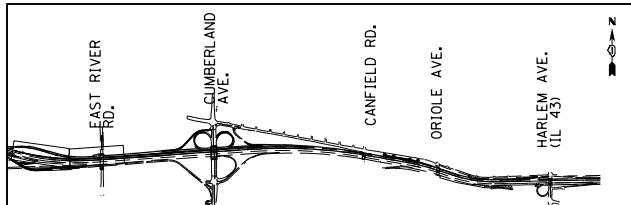
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| exp U.S. Services Inc. Chicago, IL BUILDINGS EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY | USER NAME = #USER* | DESIGNED HDU | REVISED - |
| | PLOT SCALE = #SCALE* | DRAWN HDU | REVISED - |
| | PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - |
| | | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-------------------------|--------------|--|
| I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE | | | |
| EXISTING DRAINAGE REMOVAL PLAN | | | |
| SCALE: 1"=50' | SHEET NO. 6 OF 7 SHEETS | STA. TO STA. | |

| | | | | |
|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 232 |
| ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 60Y39 |

DRN-REM-06



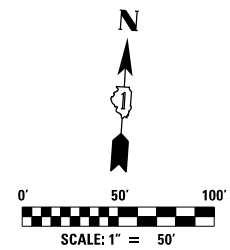
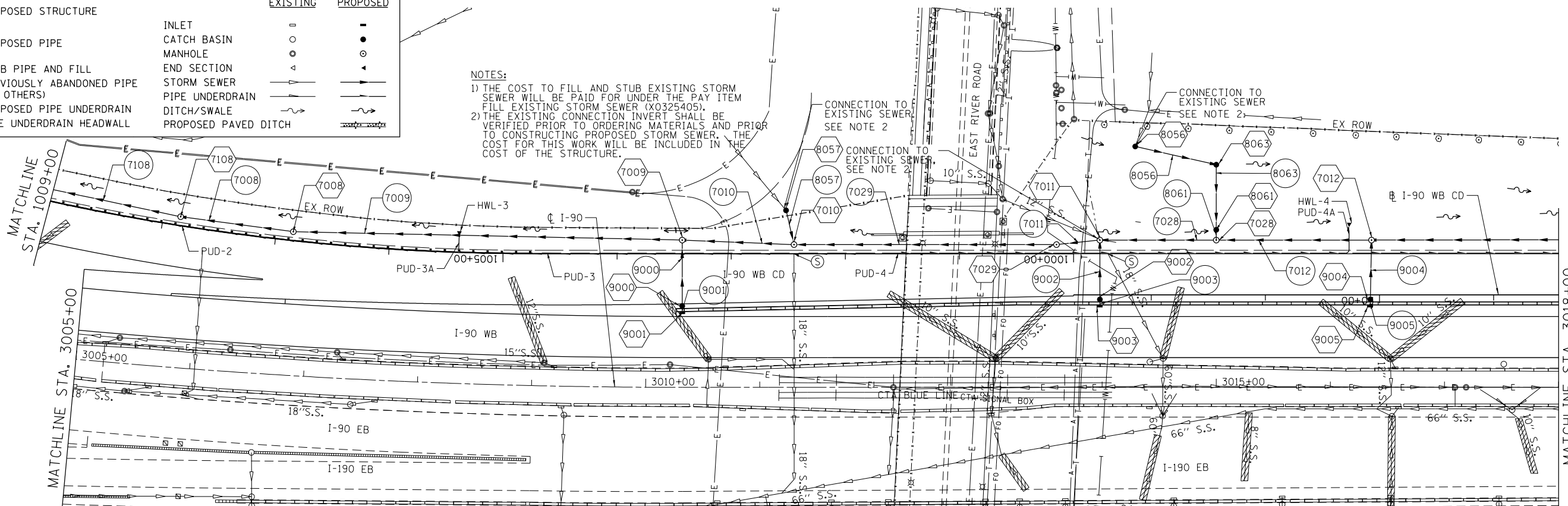
MATCHLINE SHEET DRN-06

PROPOSED DRAINAGE LEGEND

| | EXISTING | PROPOSED |
|--------|----------------------|---------------------------------------|
| XXXX | | PROPOSED STRUCTURE |
| XXXX | | PROPOSED PIPE |
| ⊙ | | STUB PIPE AND FILL |
| ▨ | | PREVIOUSLY ABANDONED PIPE (BY OTHERS) |
| PUD-XX | | PROPOSED PIPE UNDERDRAIN |
| HWL-XX | | PIPE UNDERDRAIN HEADWALL |
| | INLET | INLET |
| | CATCH BASIN | CATCH BASIN |
| | MANHOLE | MANHOLE |
| | END SECTION | END SECTION |
| | STORM SEWER | STORM SEWER |
| | PIPE UNDERDRAIN | PIPE UNDERDRAIN |
| | DITCH/SWALE | DITCH/SWALE |
| | PROPOSED PAVED DITCH | PROPOSED PAVED DITCH |

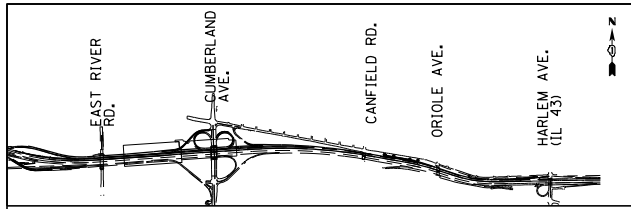
NOTES:

- 1) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).
- 2) THE EXISTING CONNECTION INVERT SHALL BE VERIFIED PRIOR TO ORDERING MATERIALS AND PRIOR TO CONSTRUCTING PROPOSED STORM SEWER. THE COST FOR THIS WORK WILL BE INCLUDED IN THE COST OF THE STRUCTURE.



DRN-01

| | | | | | | | | | | | | | |
|--|-----------------------|-----------------|-----------|---|--|--------------------------|------------------------------|---------------------------|-------------|------------------|---------------|--|--|
| exp U.S. Services Inc. Chicago, IL BUILDINGS, EARTH & ENVIRONMENT ENERGY INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE PROPOSED DRAINAGE PLAN | | F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 234 | | |
| | PLOT SCALE = *SCALE* | CHECKED SH | REVISED - | | SCALE: 1"=50' | SHEET NO. 1 OF 20 SHEETS | STA. 3005+00 TO STA. 3018+00 | CONTRACT NO. 60Y39 | | | | | |
| | PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | | |
| | FILE NAME = #FILE# | | | | | | | | | | | | |

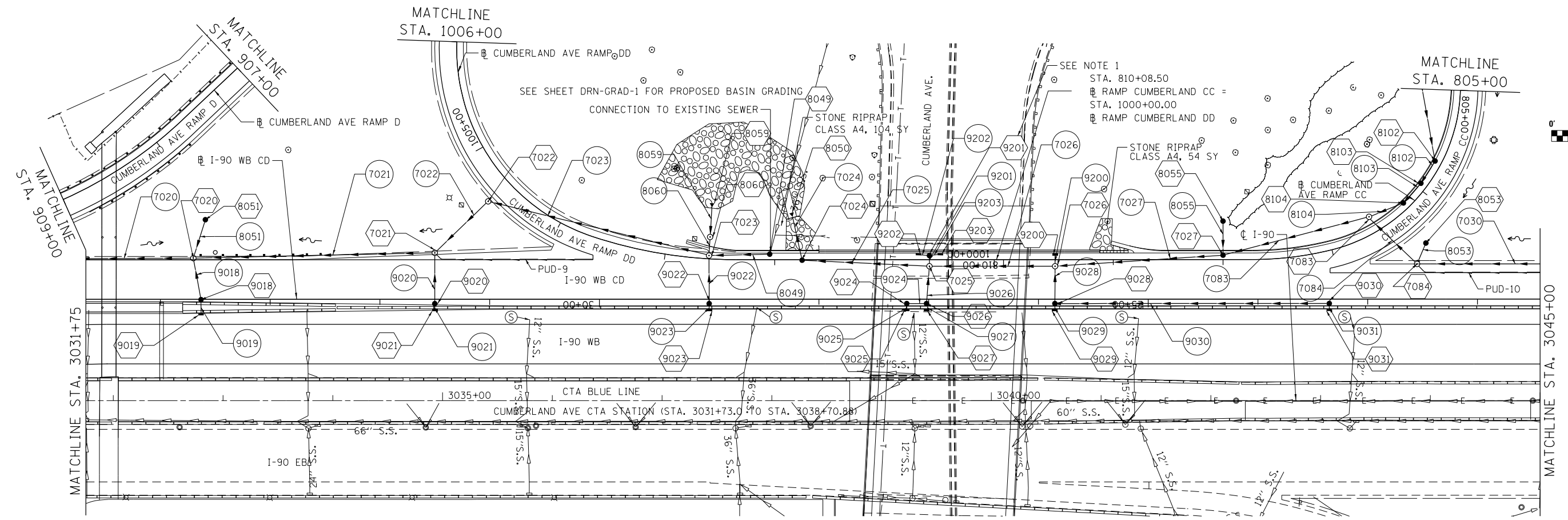
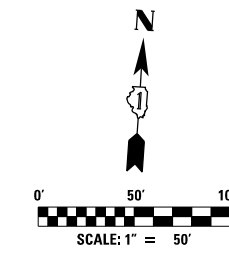
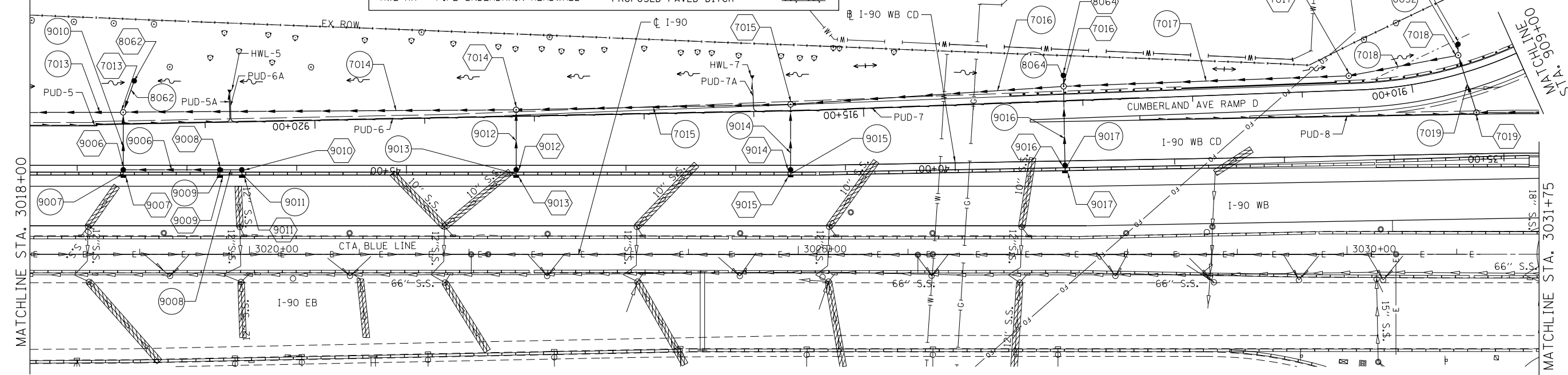
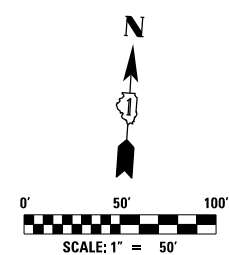


PROPOSED DRAINAGE LEGEND

| | EXISTING | PROPOSED |
|--------|----------|---------------------------------------|
| XXXX | | PROPOSED STRUCTURE |
| XXXX | | PROPOSED PIPE |
| Ⓢ | | STUB PIPE AND FILL |
| ▨ | | PREVIOUSLY ABANDONED PIPE (BY OTHERS) |
| PUD-XX | | PROPOSED PIPE UNDERDRAIN |
| HWL-XX | | PIPE UNDERDRAIN HEADWALL |
| | — | INLET |
| | ○ | CATCH BASIN |
| | ○ | MANHOLE |
| | △ | END SECTION |
| | — | STORM SEWER |
| | — | PIPE UNDERDRAIN |
| | — | DITCH/SWALE |
| | — | PROPOSED PAVED DITCH |

NOTES:

- 1) CONNECT RETAINING WALL PIPE UNDERDRAIN INTO PROPOSED DRAINAGE STRUCTURE 9201. REFER TO WALL 6 STRUCTURAL PLANS.
- 2) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).



exp. U.S. Services Inc.
Chicago, IL
BUILDINGS, EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED HDU | REVISED - |
| | DRAWN HDU | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

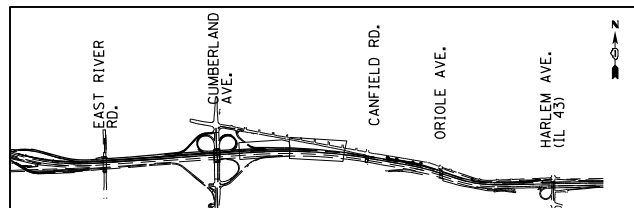
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED DRAINAGE PLAN**

SCALE: 1"=50' SHEET NO. 2 OF 20 SHEETS STA. 3018+00 TO STA. 3045+00

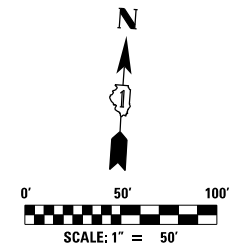
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|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. R.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 235 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

DRN-02

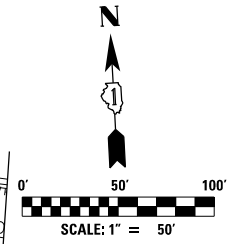
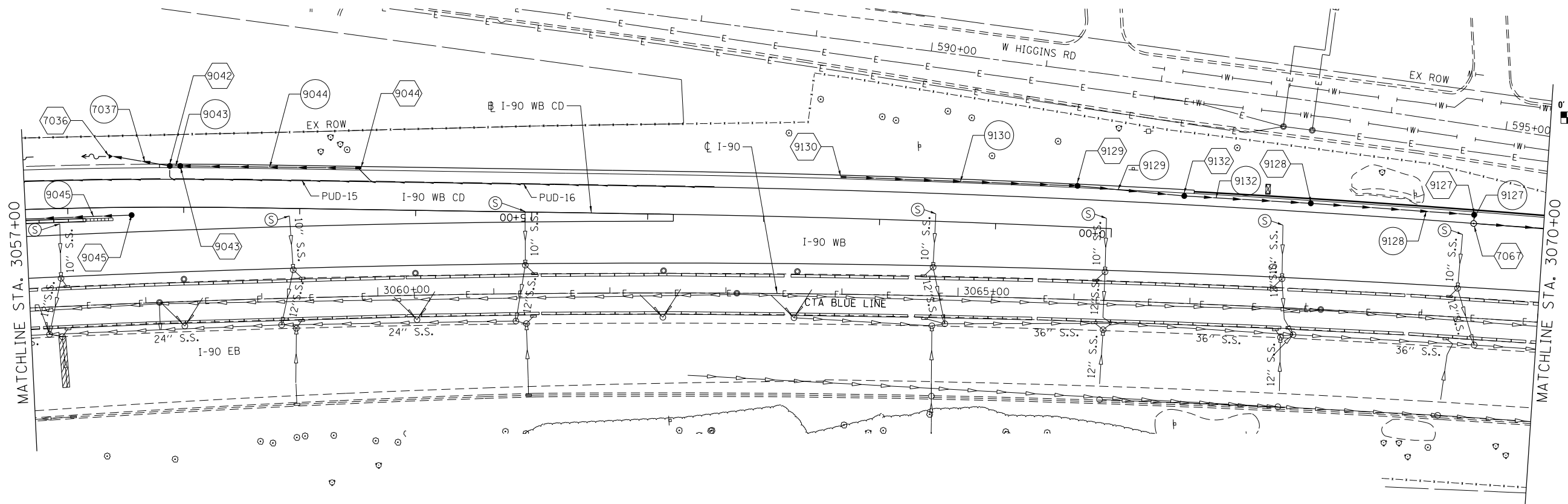
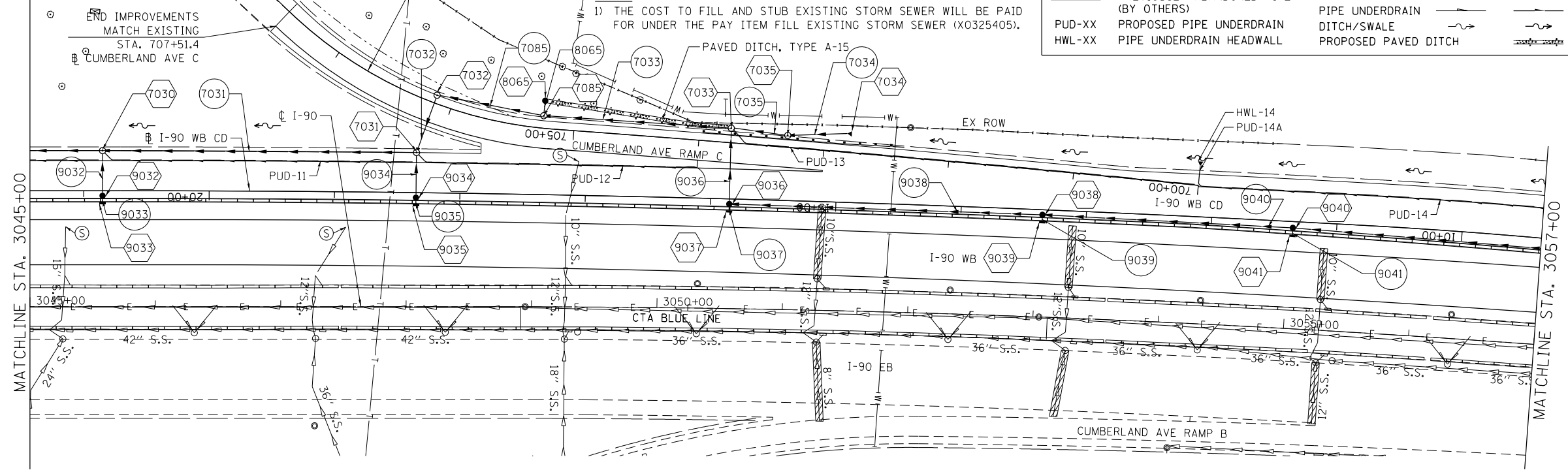


PROPOSED DRAINAGE LEGEND

| | EXISTING | PROPOSED |
|--------|----------------------|---------------------------------------|
| XXXX | | PROPOSED STRUCTURE |
| XXXX | | PROPOSED PIPE |
| (S) | | STUB PIPE AND FILL |
| XXXX | | PREVIOUSLY ABANDONED PIPE (BY OTHERS) |
| PUD-XX | | PROPOSED PIPE UNDERDRAIN |
| HWL-XX | | PIPE UNDERDRAIN HEADWALL |
| | INLET | |
| | CATCH BASIN | |
| | MANHOLE | |
| | END SECTION | |
| | STORM SEWER | |
| | PIPE UNDERDRAIN | |
| | DITCH/SWALE | |
| | PROPOSED PAVED DITCH | |



NOTES:
 1) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).



DRN-03

exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS, EARTH & ENVIRONMENT ENERGY
 INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = *USER* | DESIGNED HDU | REVISED - |
| | DRAWN HDU | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

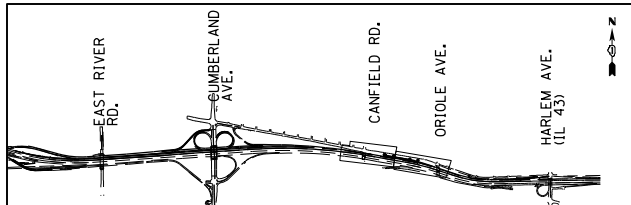
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 PROPOSED DRAINAGE PLAN**

SCALE: 1"=50' SHEET NO. 3 OF 20 SHEETS STA. 3045+00 TO STA. 3070+00

| | | | | |
|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. R.E. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 236 |
| | | | | CONTRACT NO. 60Y39 |
| ILLINOIS FED. AID PROJECT | | | | |

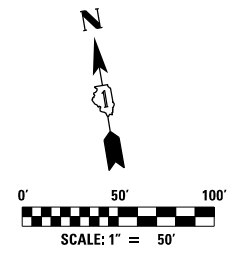
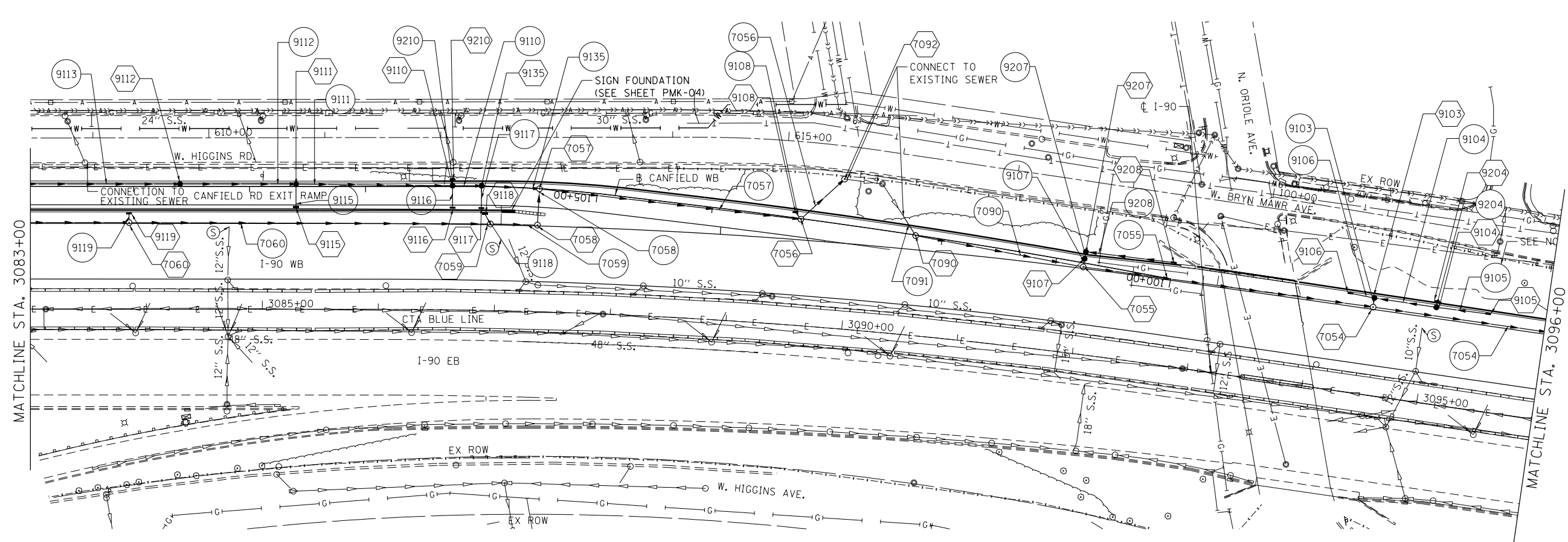
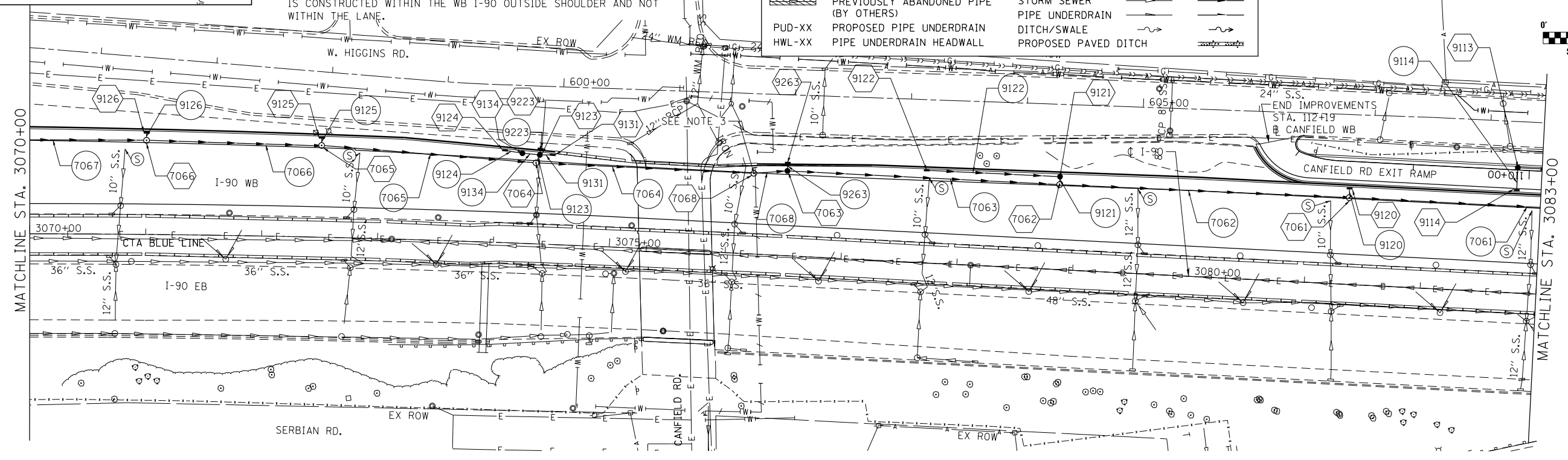
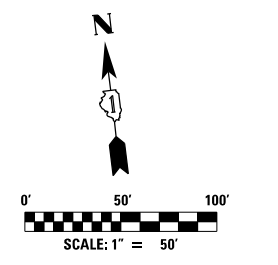
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NOTES:
 1) CONNECT RETAINING WALL PIPE UNDERDRAIN INTO PROPOSED DRAINAGE STRUCTURE 9105. REFER TO WALL 5 STRUCTURAL PLANS.
 2) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).
 3) MANHOLE LID ON STR. 7068 SHALL BE ROTATED SO THAT THE LID IS CONSTRUCTED WITHIN THE WB I-90 OUTSIDE SHOULDER AND NOT WITHIN THE LANE.

PROPOSED DRAINAGE LEGEND

| | EXISTING | PROPOSED |
|----------------------|----------|---------------------------------------|
| XXXX | | PROPOSED STRUCTURE |
| XXXX | | PROPOSED PIPE |
| (S) | | STUB PIPE AND FILL |
| XXXX | | PREVIOUSLY ABANDONED PIPE (BY OTHERS) |
| PUD-XX | | PROPOSED PIPE UNDERDRAIN |
| HWL-XX | | PIPE UNDERDRAIN HEADWALL |
| INLET | □ | ■ |
| CATCH BASIN | ○ | ● |
| MANHOLE | ○ | ● |
| END SECTION | △ | ▲ |
| STORM SEWER | — | — |
| PIPE UNDERDRAIN | — | — |
| DITCH/SWALE | ~ | ~ |
| PROPOSED PAVED DITCH | ~ | ~ |



exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS, EARTH & ENVIRONMENT ENERGY
 INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = *USER* | DESIGNED HDU | REVISED - |
| | DRAWN HDU | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

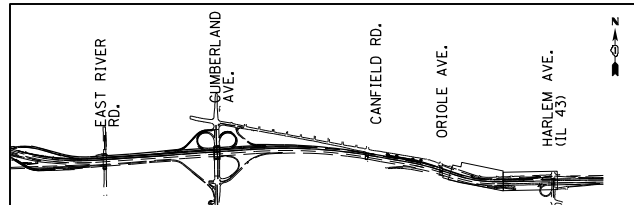
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 PROPOSED DRAINAGE PLAN**

SCALE: 1"=50' SHEET NO. 4 OF 20 SHEETS STA. 3070+00 TO STA. 3096+00

| | | | | |
|---------------------------|---------------------------|-------------|------------------|--------------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 237 |
| | | | | CONTRACT NO. 60Y39 |
| ILLINOIS FED. AID PROJECT | | | | |

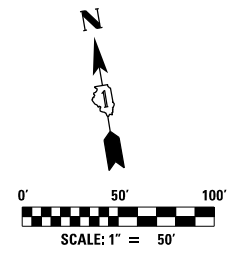
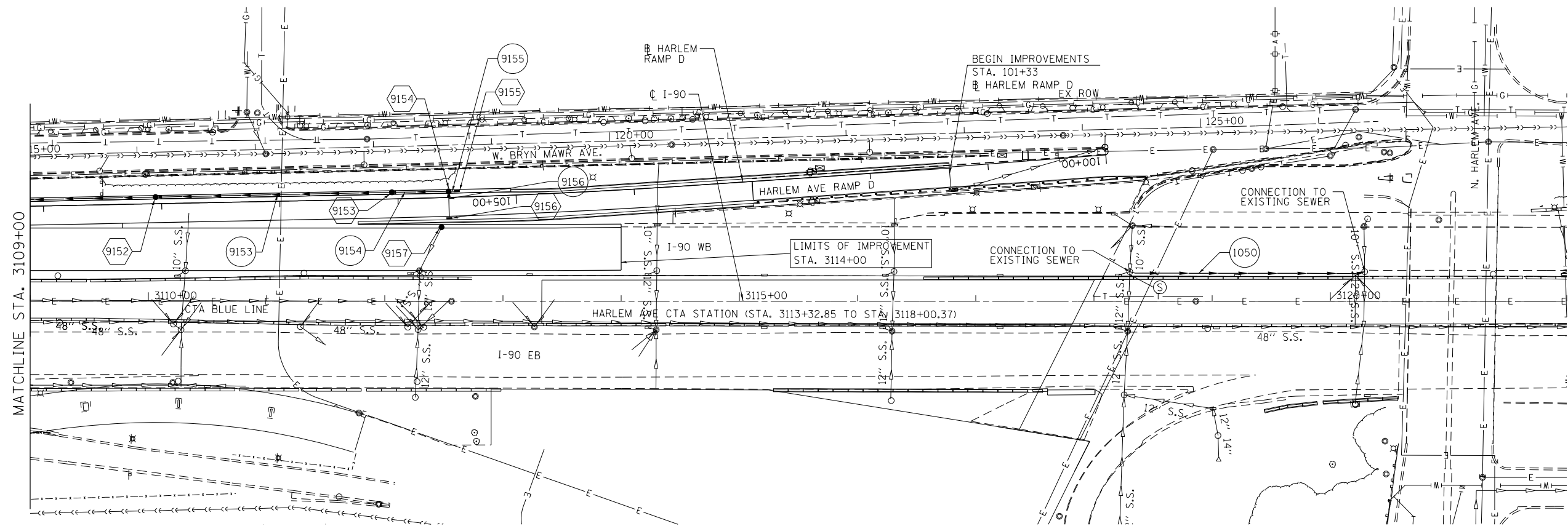
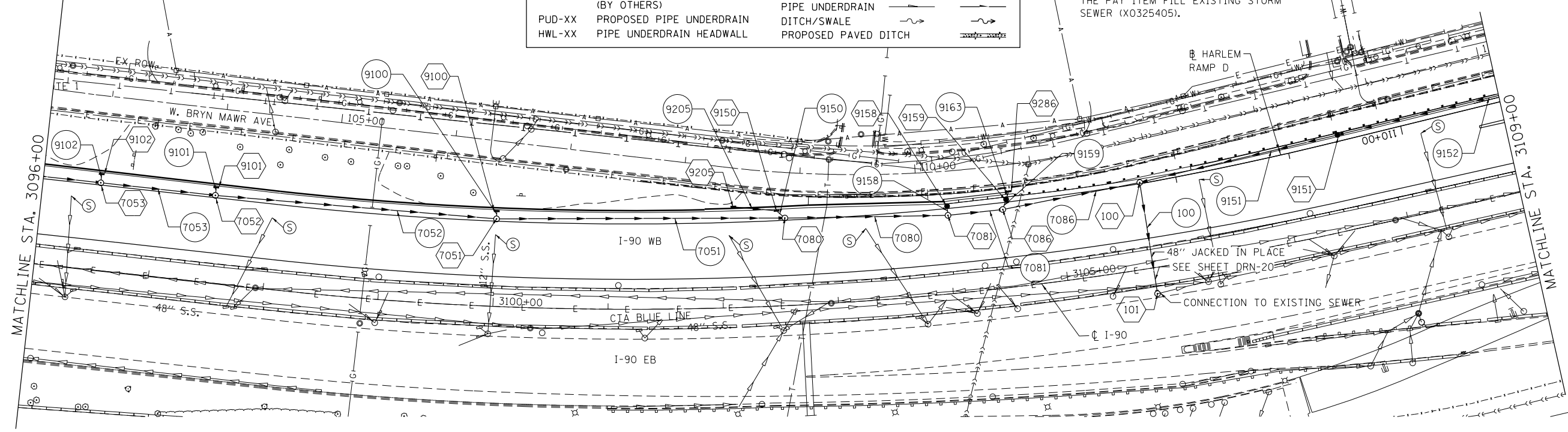
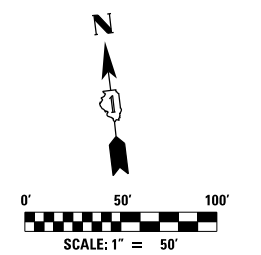
DRN-04



PROPOSED DRAINAGE LEGEND

| | | EXISTING | PROPOSED |
|-----------|---------------------------------------|----------|----------|
| (XXXX) | PROPOSED STRUCTURE | | |
| (XXXX) | PROPOSED PIPE | | |
| (S) | STUB PIPE AND FILL | | |
| (Hatched) | PREVIOUSLY ABANDONED PIPE (BY OTHERS) | | |
| PUD-XX | PROPOSED PIPE UNDERDRAIN | | |
| HWL-XX | PIPE UNDERDRAIN HEADWALL | | |
| | INLET | | |
| | CATCH BASIN | | |
| | MANHOLE | | |
| | END SECTION | | |
| | STORM SEWER | | |
| | PIPE UNDERDRAIN | | |
| | DITCH/SWALE | | |
| | PROPOSED PAVED DITCH | | |

NOTES:
 1) THE COST TO FILL AND STUB EXISTING STORM SEWER WILL BE PAID FOR UNDER THE PAY ITEM FILL EXISTING STORM SEWER (X0325405).



DRN-05

exp U.S. Services Inc.
 Chicago, IL
 BUILDINGS, EARTH & ENVIRONMENT ENERGY
 INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = *USER* | DESIGNED HDU | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN HDU | REVISED - |
| PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

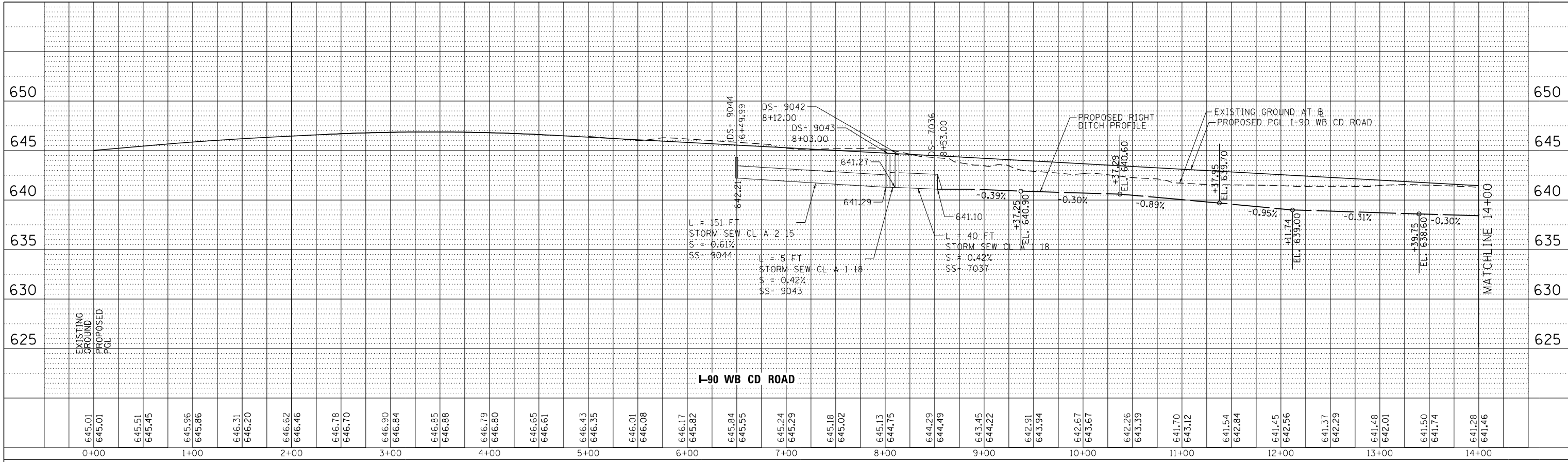
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 PROPOSED DRAINAGE PLAN**

SCALE: 1"=50' SHEET NO. 5 OF 20 SHEETS STA. 3096+00 TO STA. 3114+00

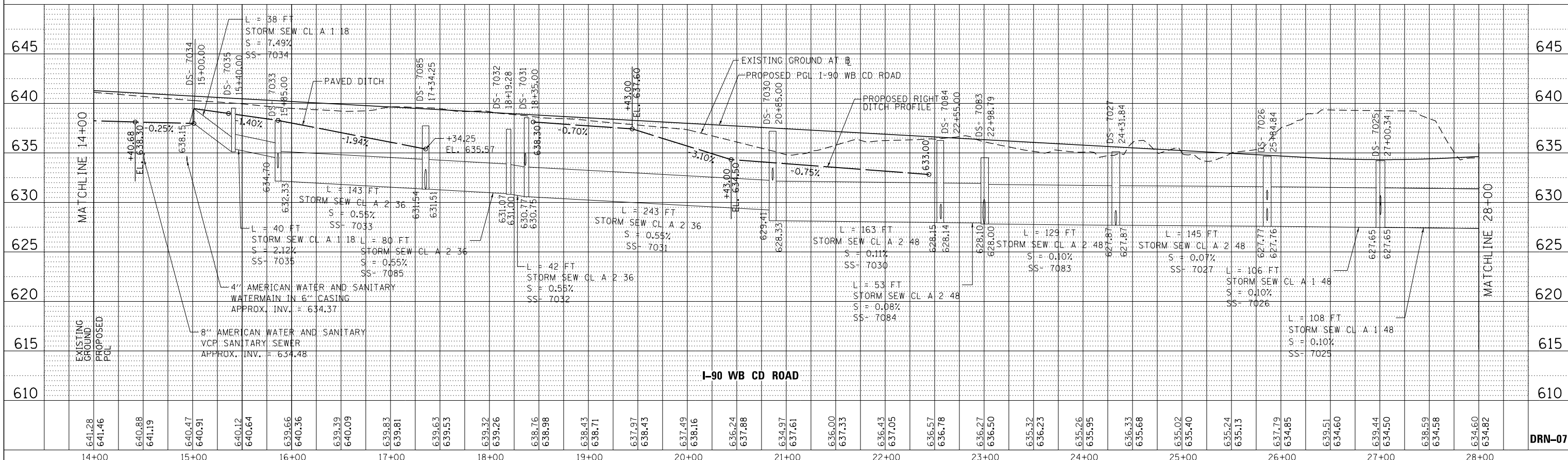
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| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 238 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME = #FILE#

| | | | |
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| PLAN | SURVEYED | BY | DATE |
| NOTE BOOK NO. | PLOTTED | | |
| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS OK'D | | |
| | CHECKED | | |
| | AT TOWN | | |
| | FILE NAME | | |



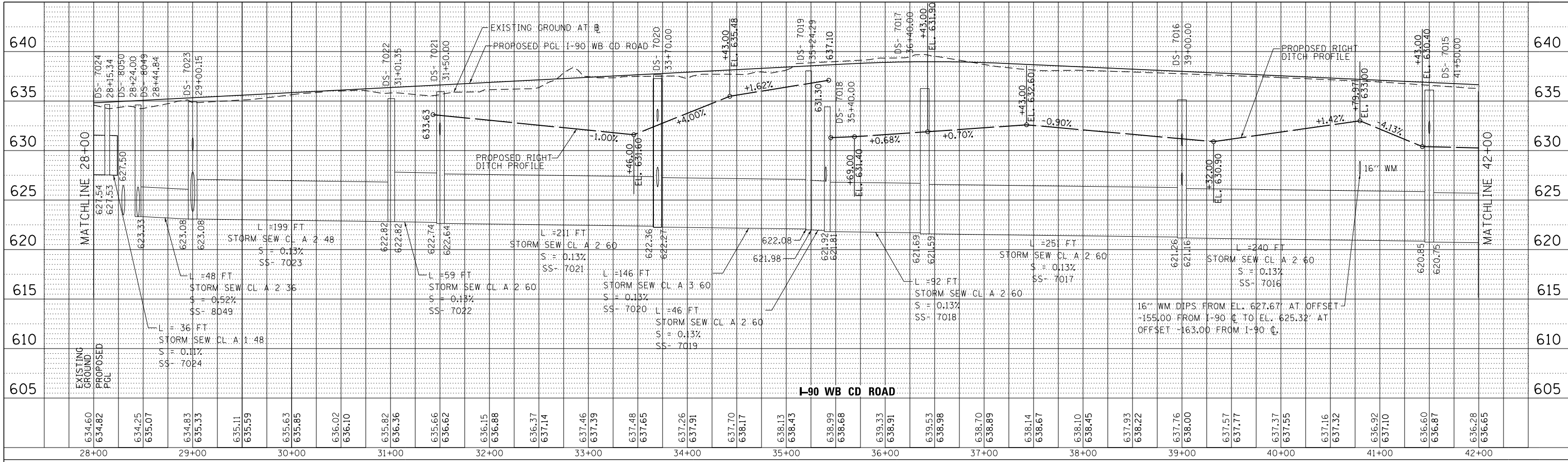
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| | STRUCTURE NOTATIONS OK'D | | |



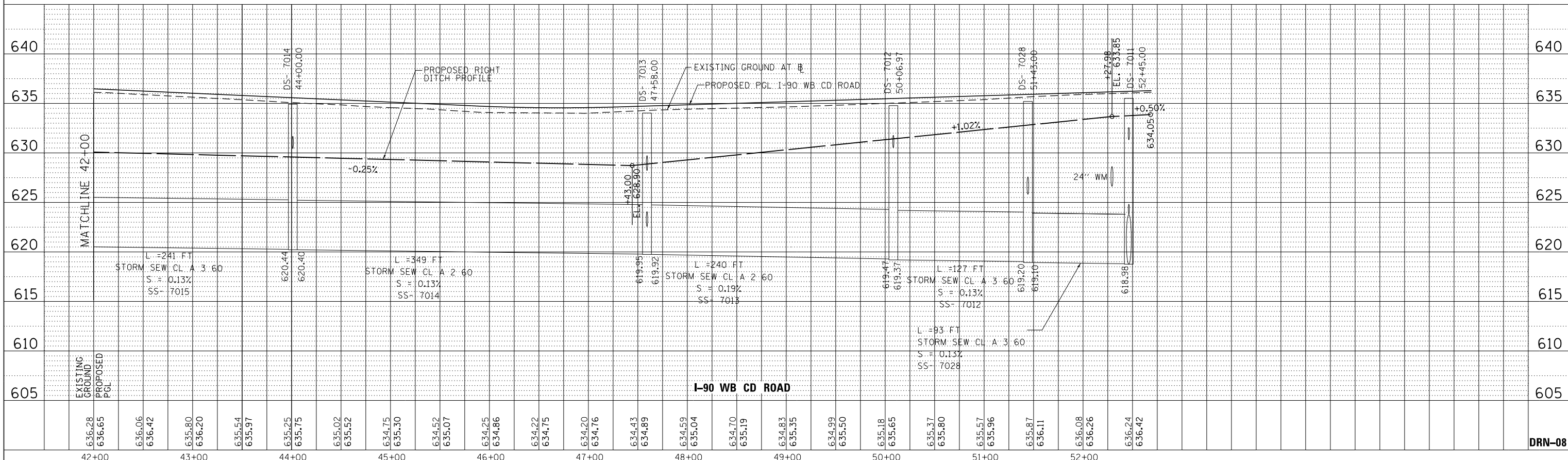
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| USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS | | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE | | F.A.I. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = *SCALE* | DRAWN HDU | REVISED - | DEPARTMENT OF TRANSPORTATION | | PROPOSED DRAINAGE PROFILES | | 90 | (1517 & 1415) R-3 | COOK | 734 | 240 |
| PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - | | | SCALE: 1"=50' | | SHEET NO. 7 OF 20 SHEETS | | CONTRACT NO. 60Y39 | | |
| | DATE 01/19/2018 | REVISED - | | | STA. TO STA. | | ILLINOIS FED. AID PROJECT | | | | |

FILE NAME #FILE#

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| PLAN | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS CHKD | | |
| | NOTE BOOK NO. | | |
| | CHECKED AT | | |
| | FILE NAME | | |



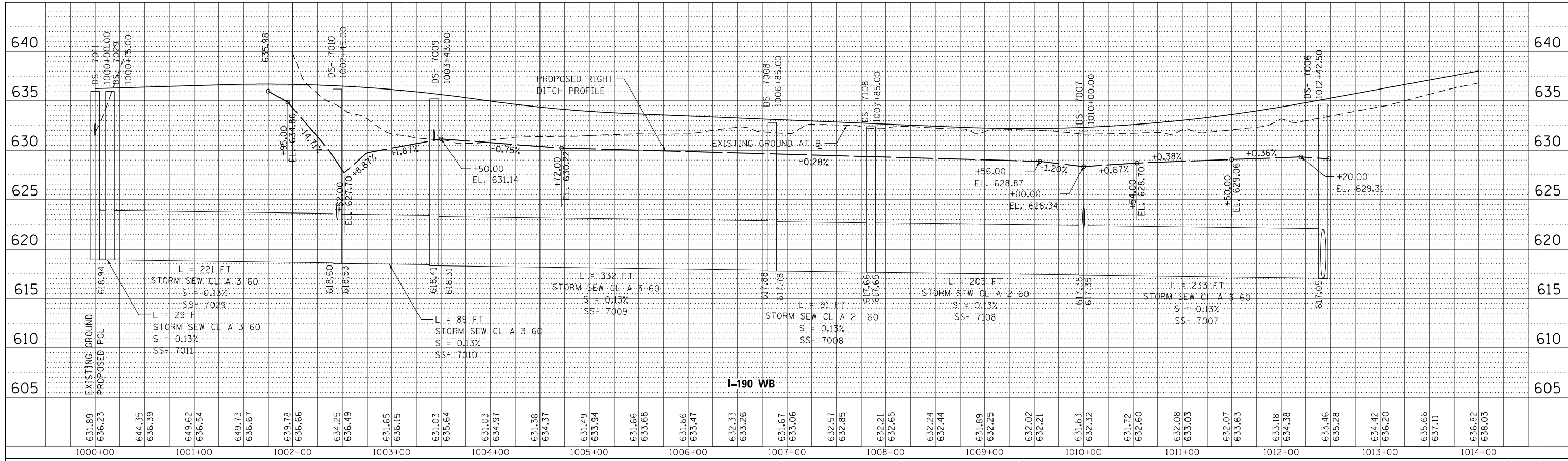
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| PROFILE | SURVEYED | BY | DATE |
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| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS CHKD | | |
| | NOTE BOOK NO. | | |
| | CHECKED AT | | |
| | FILE NAME | | |



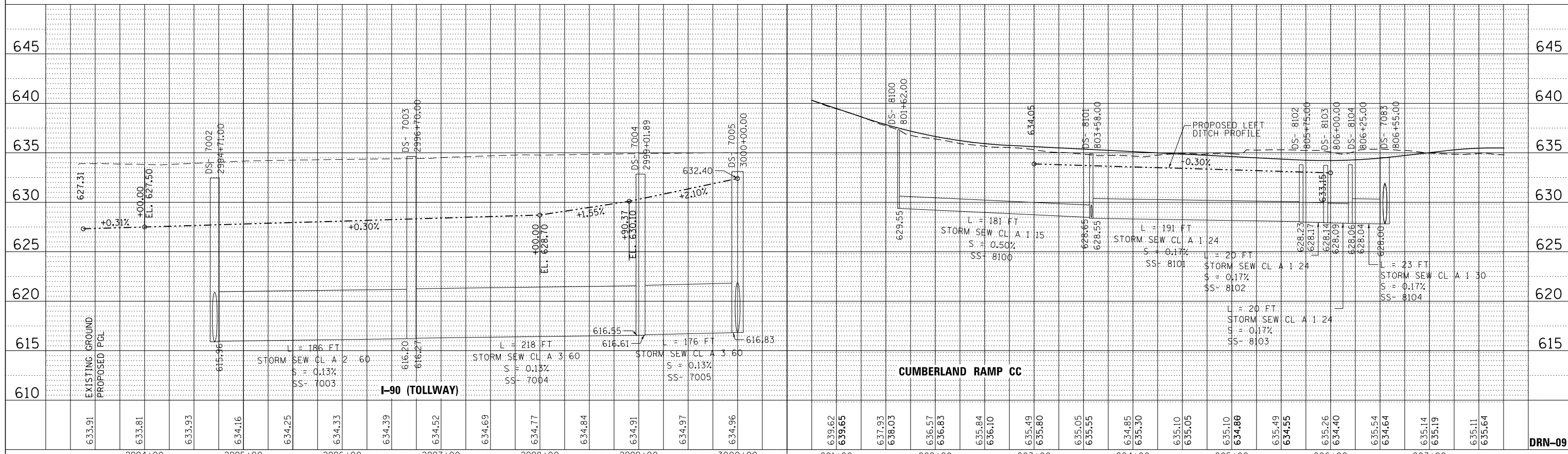
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| exp U.S. Services Inc. CHICAGO, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PROPOSED DRAINAGE PROFILE | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = *SCALE* | DRAWN HDU | REVISED - | | 90 | (1517 & 1415) R-3 | COOK | 734 | 241 | | | |
| | PLOT DATE = 1-16-2018 | CHECKED SH | REVISED - | | CONTRACT NO. 60Y39 | | | | | | | |
| | | DATE 01/19/2018 | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |
| FILE NAME #FILE# | | | | | SCALE: 1"=50' | SHEET NO. 8 OF 20 SHEETS | STA. | TO STA. | | | | |

DRN-08

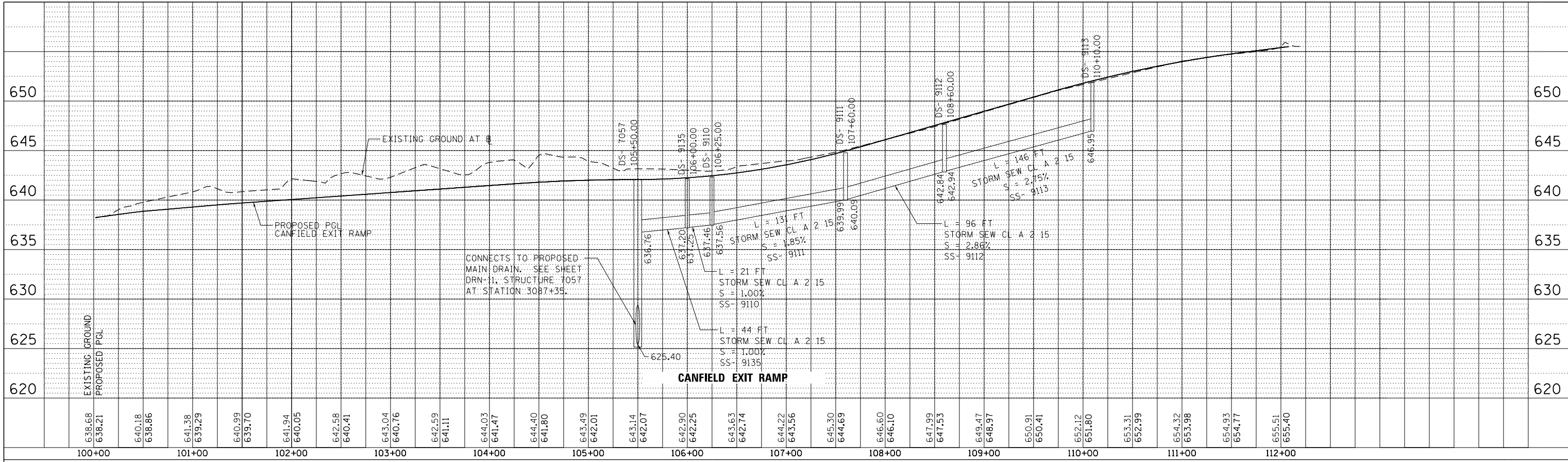
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| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS OK'D | | |
| NOTE BOOK NO. | PROJECT FILE NAME | | |



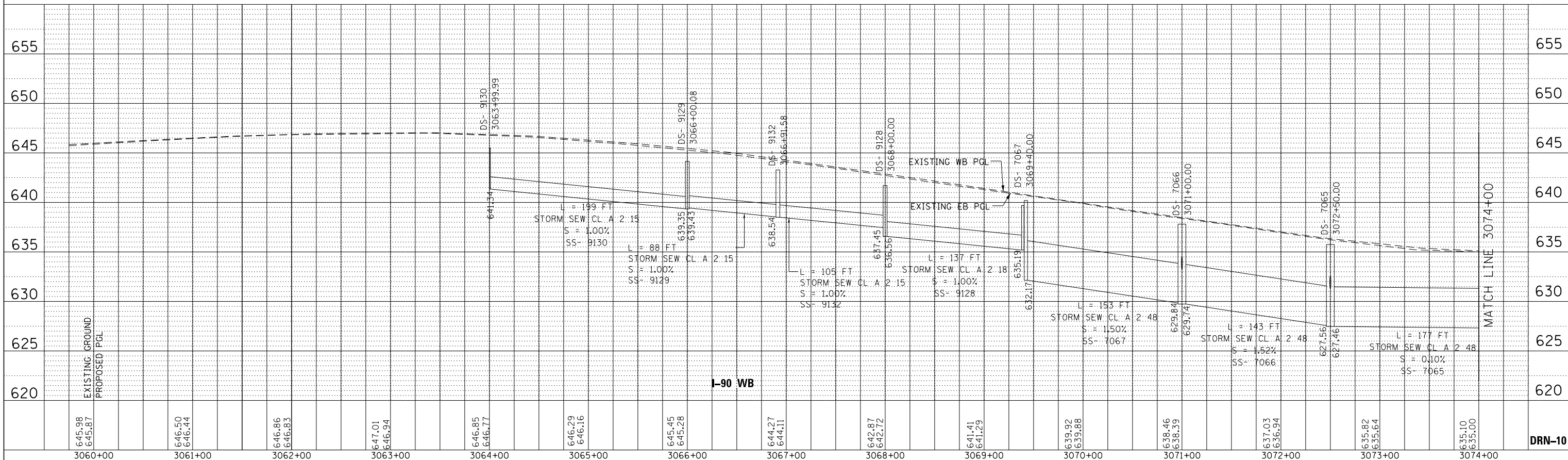
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| | PLOTTED | | |
| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS OK'D | | |
| NOTE BOOK NO. | PROJECT FILE NAME | | |



| | | |
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| PLAN | SURVEYED | DATE |
| NO. | BY | |
| | CHECKED | |
| | AT | |
| | FILE NAME | |

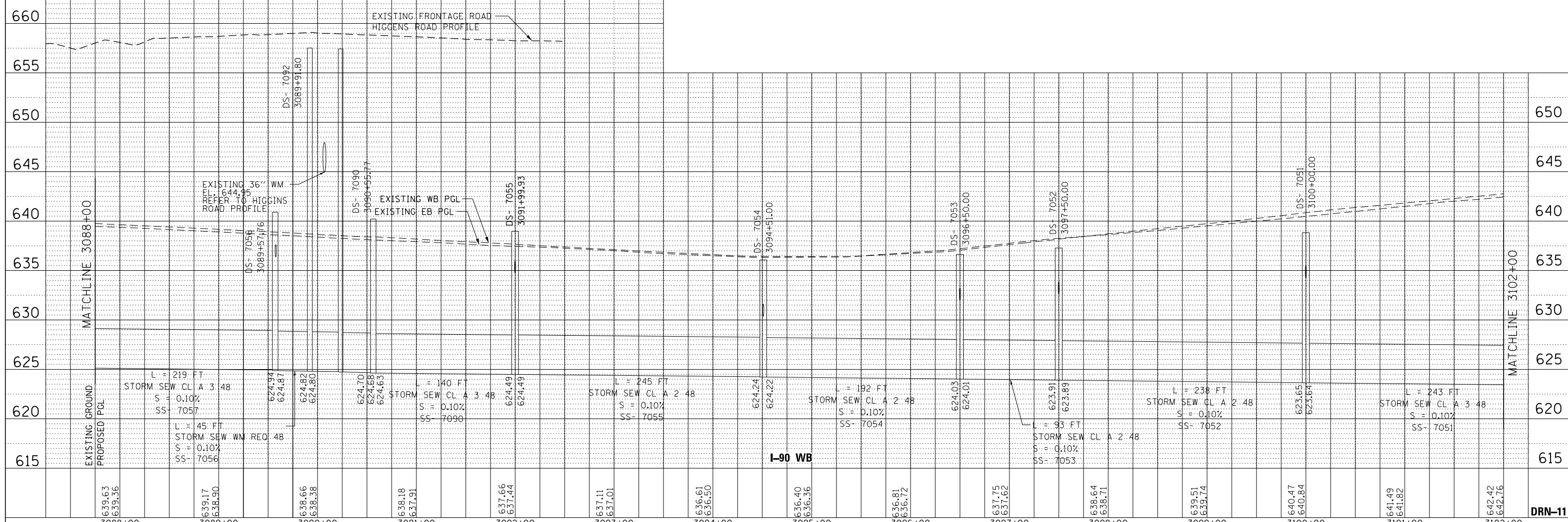
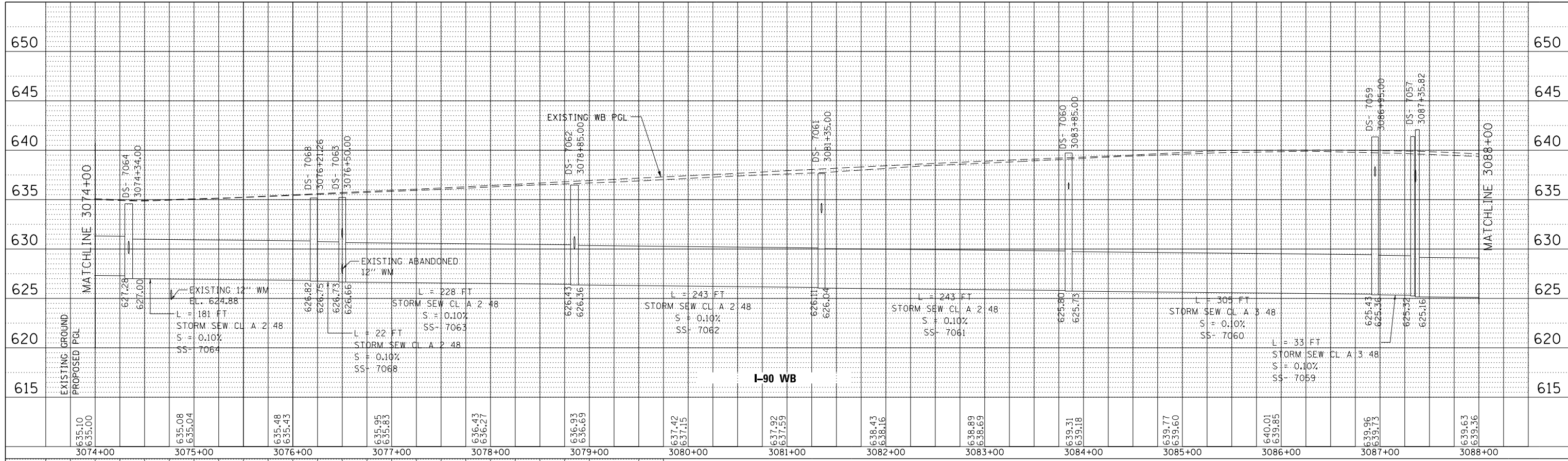


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| PROFILE | SURVEYED | DATE |
| NO. | BY | |
| | CHECKED | |
| | AT | |
| | FILE NAME | |



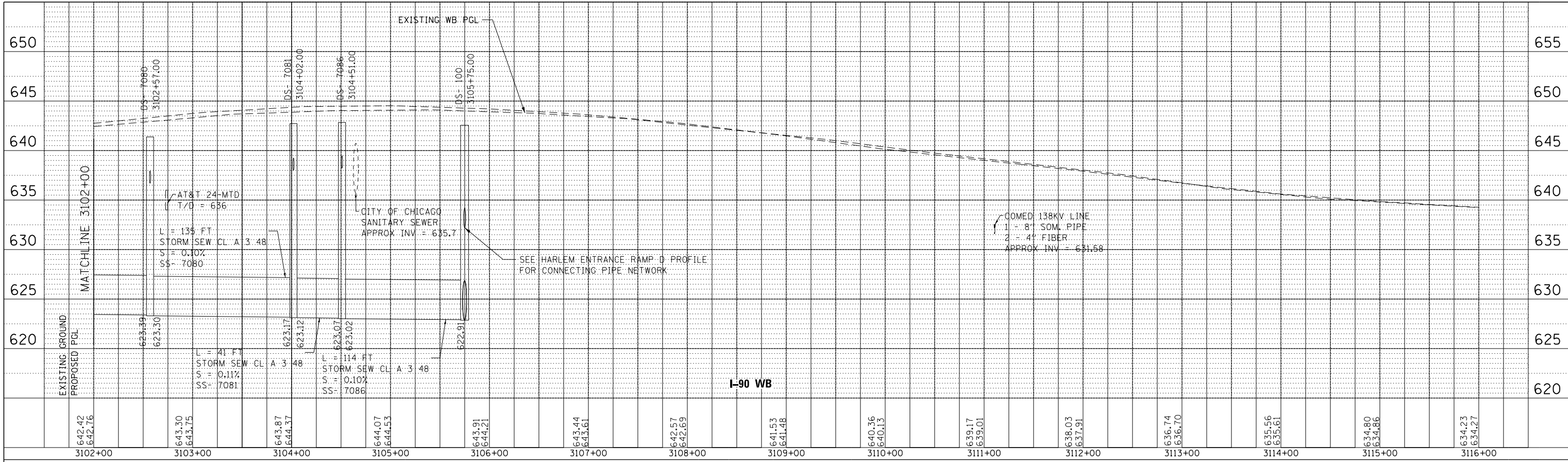
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| PLAN | SURVEYED | BY | DATE |
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| PROFILE | SURVEYED | BY | DATE |
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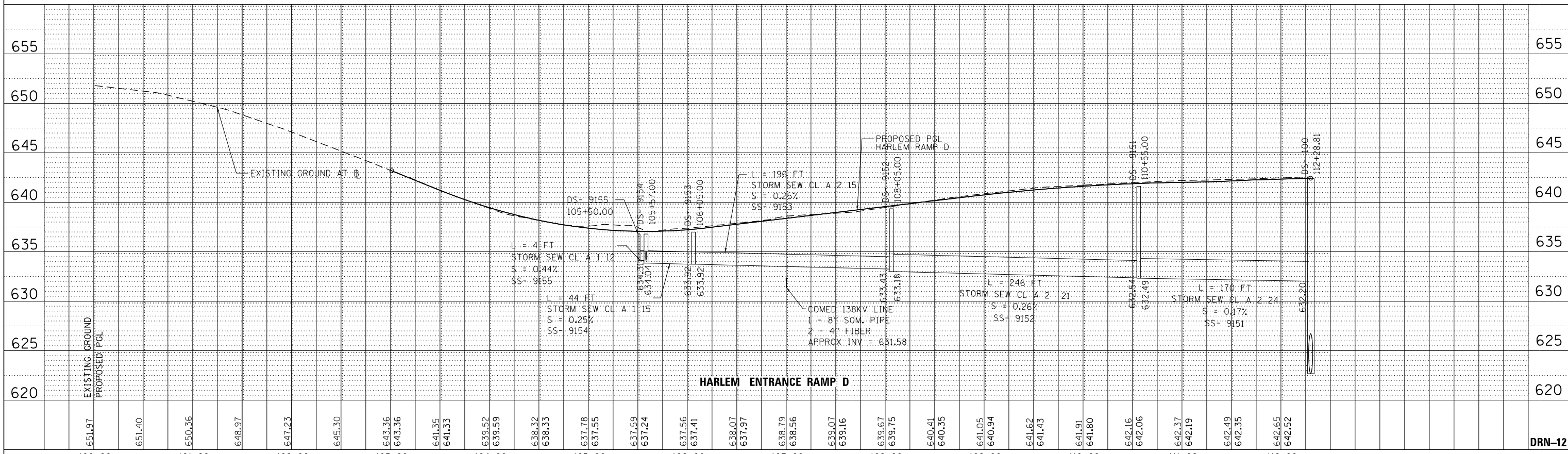


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|--|---------------------------|-----------------|-----------|---|--------------------|-------------------|--------|--------------|-----------|--|
| exp U.S. Services Inc. BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PROPOSED DRAINAGE PROFILE | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE = *SCALE* | CHECKED SH | REVISED - | | 90 | (1517 & 1415) R-3 | COOK | 734 | 244 | |
| | PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - | | CONTRACT NO. 60Y39 | | | | | |
| | ILLINOIS FED. AID PROJECT | | | | | | | | | |

| | | | |
|---------------|--------------------------|----|------|
| PLAN | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS CHKD | | |
| NOTE BOOK NO. | CHECKED AT | | |
| | FILE NAME | | |



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| PROFILE | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | GRADES CHECKED | | |
| | STRUCTURE NOTATIONS CHKD | | |
| NOTE BOOK NO. | CHECKED AT | | |
| | FILE NAME | | |



| | | | | | | | | | | | |
|---|-----------------------|-----------------|-----------|---|--|---------------------------|----------------|---------------------------|---------------------------|------------------|---------------|
| exp U.S. Services Inc. CHICAGO, IL BUILDINGS-EARTH & ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY | USER NAME = *USER* | DESIGNED HDU | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PROPOSED DRAINAGE PROFILE | | F.A.I. RTE. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 245 |
| | PLOT SCALE = *SCALE* | CHECKED SH | REVISED - | | SCALE: 1"=50' | SHEET NO. 12 OF 20 SHEETS | STA. TO STA. | CONTRACT NO. 60Y39 | | | |
| | PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | | |
| | DRN-12 | | | | | | | | | | |

DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE NO. | STRUCTURE DESCRIPTION | CENTERLINE | | | | PROPOSED RIM ELEVATION | INVERTS | | | | PIPE CONNECTIONS (Pipe No. - Pipe Size) | | | | SHEET NO. | STRUCTURE TOP | |
|---------------|----------------------------------|--------------------|-----------|--------|------|------------------------|---------|--------|--------|--------|---|----------------|----------------|----------------|----------------|---------------|---------|
| | | ALIGNMENT | STATION | OFFSET | DIR. | | NORTH | SOUTH | EAST | WEST | NORTH | SOUTH | EAST | WEST | | | |
| 100 | MAN TA 8 DIA T1F CL | CL I-90 | 3105+75.0 | 75.0 | LT | 642.56 | -- | 622.86 | 632.20 | 622.91 | -- | 100 - DIA 48" | 100 - DIA 48" | 9151 - DIA 24" | 7086 - DIA 48" | DRN-5 | TAPERED |
| 101 | MAN TA 8 DIA T1F CL | CL I-90 | 3105+75.0 | 22.8 | RT | 642.52 | 622.77 | -- | 622.72 | -- | 100 - DIA 48" | -- | EP - DIA 48" | -- | -- | DRN-5 | TAPERED |
| 3000 | SLOPED HEADWALL TYPE III 15" 1:4 | CL I-90 | 2994+78.0 | 83.8 | LT | -- | -- | 628.18 | -- | -- | -- | EP - DIA 15" | -- | -- | -- | DRN-1 | -- |
| 3002 | SLOPED HEADWALL TYPE III 15" 1:4 | CL I-90 | 2995+03.0 | 83.9 | LT | -- | -- | 628.26 | -- | -- | -- | EP - DIA 15" | -- | -- | -- | DRN-1 | -- |
| 3004 | SLOPED HEADWALL TYPE III 15" 1:4 | CL I-90 | 2996+37.9 | 85.0 | LT | -- | -- | 628.66 | -- | -- | -- | EP - DIA 15" | -- | -- | -- | DRN-1 | -- |
| 3006 | SLOPED HEADWALL TYPE III 15" 1:4 | CL I-90 | 2998+16.8 | 88.6 | LT | -- | -- | 629.22 | -- | -- | -- | EP - DIA 15" | -- | -- | -- | DRN-1 | -- |
| 7000 | MAN TA 9 DIA T1F CL | EB I-190 | 105+57.0 | 110.0 | LT | 626.08 | -- | 613.83 | 614.99 | -- | -- | 7000 - DIA 60" | 7001 - DIA 60" | -- | -- | DRN-4 | TAPERED |
| 7001 | MAN TA 9 DIA T1F CL | EB I-190 | 107+47.0 | 137.0 | LT | 634.42 | 615.27 | -- | -- | 615.23 | 7002 - DIA 60" | -- | -- | 7001 - DIA 60" | -- | DRN-4 | TAPERED |
| 7002 | MAN TA 9 DIA T1F CL | CL I-90 | 2994+71.0 | 110.0 | LT | 632.45 | -- | 615.90 | 615.96 | -- | -- | 7002 - DIA 60" | -- | 7003 - DIA 60" | -- | DRN-6 | TAPERED |
| 7003 | MAN TA 9 DIA T1F CL | CL I-90 | 2996+70.0 | 130.0 | LT | 634.64 | -- | -- | 616.27 | 616.20 | -- | -- | 7004 - DIA 60" | 7003 - DIA 60" | -- | DRN-1 | TAPERED |
| 7004 | MAN TA 9 DIA T1F CL | CL I-90 | 2999+01.9 | 110.0 | LT | 632.84 | -- | -- | 616.61 | 616.55 | -- | -- | 7005 - DIA 60" | 7004 - DIA 60" | -- | DRN-1 | TAPERED |
| 7005 | MAN TA 9 DIA T1F CL | CL I-90 | 3000+91.0 | 110.2 | LT | 633.11 | 616.89 | -- | -- | 616.84 | 7040 - DIA 60" | -- | -- | 7005 - DIA 60" | -- | DRN-1 | TAPERED |
| 7006 | MAN TA 9 DIA T1F CL | WB I-190 | 1012+42.5 | 8.0 | RT | 634.66 | -- | 617.00 | 617.05 | -- | -- | 7006 - DIA 60" | 7007 - DIA 60" | -- | -- | DRN-1 | TAPERED |
| 7007 | MAN TA 9 DIA T1F CL | WB I-190 | 1010+00.0 | 7.5 | RT | 631.87 | 622.29 | 622.10 | 617.38 | 617.35 | EP - DIA 24" | EP - DIA 24" | 7108 - DIA 60" | 7007 - DIA 60" | -- | DRN-1 | TAPERED |
| 7008 | MAN TA 9 DIA T1F CL | WB I-190 | 1006+85.0 | 8.0 | RT | 632.80 | -- | -- | 617.88 | 617.78 | -- | -- | 7009 - DIA 60" | 7008 - DIA 60" | -- | DRN-1 | TAPERED |
| 7009 | MAN TA 9 DIA T1F CL | WB I-190 | 1003+43.0 | 12.0 | RT | 635.21 | -- | 630.91 | 618.41 | 618.31 | -- | 9000 - DIA 15" | 7010 - DIA 60" | 7009 - DIA 60" | -- | DRN-2 | TAPERED |
| 7010 | MAN TA 9 DIA T1F CL | WB I-190 | 1002+45.0 | 8.0 | RT | 636.19 | 622.99 | -- | 618.60 | 618.53 | 8057 - DIA 21" | -- | 7029 - DIA 60" | 7010 - DIA 60" | -- | DRN-2 | TAPERED |
| 7011 | MAN TA 9 DIA T1F CL | WB CD | 52+45.0 | 48.0 | RT | 635.68 | -- | 631.49 | 618.98 | 624.00 | -- | 9002 - DIA 15" | 7028 - DIA 60" | EP - DIA 12" | -- | DRN-1 | TAPERED |
| 7012 | MAN TA 9 DIA T1F CL | WB CD | 50+07.0 | 48.0 | RT | 634.96 | -- | 630.70 | 619.47 | 619.37 | -- | 9004 - DIA 15" | 7013 - DIA 60" | 7012 - DIA 60" | -- | DRN-1 | TAPERED |
| 7013 | MAN TA 9 DIA T1F CL | WB CD | 47+58.0 | 48.5 | RT | 634.21 | 622.74 | 628.40 | 619.95 | 619.92 | 8062 - DIA 18" | 9010 - DIA 18" | 7014 - DIA 60" | 7013 - DIA 60" | -- | DRN-2 | TAPERED |
| 7014 | MAN TA 9 DIA T1F CL | WB CD | 44+00.0 | 50.6 | RT | 635.10 | -- | 630.60 | 620.43 | 620.40 | -- | 9012 - DIA 15" | 7015 - DIA 60" | 7014 - DIA 60" | -- | DRN-2 | TAPERED |
| 7015 | MAN TA 9 DIA T1F CL | WB CD | 41+50.0 | 55.6 | RT | 636.12 | -- | 631.70 | 620.85 | 620.75 | -- | 9014 - DIA 15" | 7016 - DIA 60" | 7015 - DIA 60" | -- | DRN-2 | TAPERED |
| 7016 | MAN TA 9 DIA T1F CL | WB CD | 39+00.0 | 68.0 | RT | 635.12 | 626.51 | 630.47 | 621.26 | 621.16 | 8064 - DIA 15" | 9016 - DIA 15" | 7017 - DIA 60" | 7016 - DIA 60" | -- | DRN-2 | TAPERED |
| 7017 | MAN TA 9 DIA T1F CL | WB CD | 36+40.0 | 73.0 | RT | 636.27 | -- | -- | 621.69 | 621.59 | -- | -- | 7018 - DIA 60" | 7017 - DIA 60" | -- | DRN-2 | TAPERED |
| 7018 | MAN TA 9 DIA T1F CL | WB CD | 35+40 | 90.0 | RT | 634.42 | 626.86 | 621.92 | -- | 621.81 | 8052 - DIA 18" | 7019 - DIA 60" | -- | 7018 - DIA 60" | -- | DRN-2 | TAPERED |
| 7019 | MAN TA 9 DIA T1F CL | WB CD | 35+24 | 37.5 | RT | 638.06 | 621.98 | -- | 622.08 | -- | 7019 - DIA 60" | -- | 7020 - DIA 60" | -- | -- | DRN-2 | TAPERED |
| 7020 | MAN TA 9 DIA T1F CL | WB CD | 33+70 | 37.5 | RT | 637.27 | 626.33 | 632.95 | 622.36 | 622.27 | 8051 - DIA 24" | 9018 - DIA 15" | 7021 - DIA 60" | 7020 - DIA 60" | -- | DRN-2 | TAPERED |
| 7021 | MAN TA 9 DIA T1F CL | WB CD | 31+50 | 42.3 | RT | 635.94 | 622.74 | 631.57 | -- | 622.64 | 7022 - DIA 60" | 9020 - DIA 15" | -- | 7021 - DIA 60" | -- | DRN-2 | TAPERED |
| 7022 | MAN TA 8 DIA T1F CL | CUMBERLAND RAMP DD | 1004+60.0 | 25.5 | LT | 635.25 | -- | 622.82 | 622.82 | -- | -- | 7022 - DIA 60" | 7023 - DIA 48" | -- | -- | DRN-2 | TAPERED |
| 7023 | MAN TA 9 DIA T1F CL | CUMBERLAND RAMP DD | 1002+60.0 | 3.0 | RT | 634.92 | 623.85 | 630.03 | 623.08 | 623.08 | 8060 - DIA 48" | 9022 - DIA 15" | 8049 - DIA 36" | 7023 - DIA 48" | -- | DRN-2 | TAPERED |
| 7024 | MAN TA 8 DIA T1F CL | CUMBERLAND RAMP DD | 1001+75.0 | 0.5 | LT | 634.66 | 627.54 | -- | 627.54 | -- | 7024 - DIA 48" | -- | 7025 - DIA 48" | -- | -- | DRN-2 | TAPERED |
| 7025 | MAN TA 9 DIA T1F CL | CUMBERLAND RAMP DD | 1000+59.0 | 6.0 | LT | 634.38 | 629.88 | 628.94 | 627.65 | 627.65 | 9201 - DIA 12" | 9026 - DIA 15" | 7026 - DIA 48" | 7025 - DIA 48" | -- | DRN-2 | TAPERED |
| 7026 | MAN TA 8 DIA T1F CL | CUMBERLAND RAMP CC | 809+53.0 | 6.0 | LT | 634.82 | 630.43 | 628.33 | 627.77 | 627.76 | 9200 - DIA 12" | 9028 - DIA 15" | 7027 - DIA 48" | 7026 - DIA 48" | -- | DRN-2 | TAPERED |
| 7027 | MAN TA 8 DIA T1F CL | CUMBERLAND RAMP CC | 808+00.0 | 4.0 | RT | 635.30 | 627.88 | -- | 627.87 | 627.87 | 8055 - DIA 18" | -- | 7083 - DIA 48" | 7027 - DIA 48" | -- | DRN-2 | TAPERED |
| 7028 | MAN TA 9 DIA T1F CL | WB CD | 51+43.0 | 48.0 | RT | 635.37 | 626.00 | -- | 619.20 | 619.10 | 8061 - DIA 21" | -- | 7012 - DIA 60" | 7028 - DIA 60" | -- | DRN-1 | TAPERED |
| 7029 | MAN TA 9 DIA T1F CL | CUMBERLAND RAMP DD | 1000+15.0 | 8.0 | RT | 635.96 | -- | -- | 618.90 | 618.89 | -- | -- | 7011 - DIA 60" | 7029 - DIA 60" | -- | DRN-2 | TAPERED |
| 7030 | MAN TA 7 DIA T1F CL | WB CD | 20+85.0 | 32.0 | RT | 637.37 | -- | 632.41 | 629.41 | 628.33 | -- | 9032 - DIA 15" | 7031 - DIA 36" | 7030 - DIA 48" | -- | DRN-3 | TAPERED |
| 7031 | MAN TA 7 DIA T1F CL | WB CD | 18+35.0 | 32.0 | RT | 638.75 | 630.77 | 633.90 | -- | 630.75 | 7032 - DIA 36" | 9034 - DIA 15" | -- | 7031 - DIA 36" | -- | DRN-3 | TAPERED |
| 7032 | MAN TA 7 DIA T1F CL | CUMBERLAND RAMP C | 706+14.0 | 6.5 | RT | 637.57 | -- | 631.00 | 631.07 | -- | -- | 7032 - DIA 36" | 7085 - DIA 36" | -- | -- | DRN-3 | TAPERED |
| 7033 | MAN TA 6 DIA T1F CL | WB CD | 15+85.0 | 56.5 | RT | 638.46 | -- | 633.65 | 634.70 | 632.33 | -- | 9036 - DIA 18" | 7035 - DIA 18" | 7033 - DIA 36" | -- | DRN-3 | FLAT |
| 7034 | CONC ES 542001 18 1:4 | WB CD | 15+00.0 | 55.0 | RT | -- | -- | -- | -- | 638.15 | -- | -- | -- | 7034 - DIA 18" | -- | DRN-3 | -- |
| 7035 | CB TA 4 DIA T8G | WB CD | 15+40.0 | 52.0 | RT | 639.70 | -- | -- | 635.29 | 635.56 | -- | -- | 7034 - DIA 18" | 7035 - DIA 18" | -- | DRN-3 | FLAT |
| 7036 | CONC ES 542001 18 1:4 | WB CD | 08+53.0 | 44.0 | RT | -- | -- | -- | 641.10 | -- | -- | -- | 7037 - DIA 18" | -- | -- | DRN-3 | -- |
| 7038 | MANHOLE SPECIAL | CL I-90 | 2993+62.8 | 395.8 | RT | 629.76 | 613.55 | -- | 613.68 | 613.58 | 7041 - DIA 60" | -- | EP - DIA 66" | EP - DIA 66" | -- | DRN-6 | TAPERED |
| 7051 | MAN TA 7 DIA T1F CL | CL I-90 | 3100+00.0 | 76.0 | LT | 638.83 | 634.23 | -- | 623.64 | 623.66 | 9100 - DIA 15" | -- | 7051 - DIA 48" | 7052 - DIA 48" | -- | DRN-5 | TAPERED |
| 7052 | MAN TA 7 DIA T1F CL | CL I-90 | 3097+50.0 | 76.0 | LT | 637.28 | 632.61 | -- | 623.89 | 623.91 | 9101 - DIA 15" | -- | 7052 - DIA 48" | 7053 - DIA 48" | -- | DRN-5 | TAPERED |
| 7053 | MAN TA 7 DIA T1F CL | CL I-90 | 3096+50.0 | 76.0 | LT | 636.63 | 631.99 | -- | 624.01 | 624.03 | 9102 - DIA 15" | -- | 7053 - DIA 48" | 7054 - DIA 48" | -- | DRN-5 | TAPERED |
| 7054 | MAN TA 7 DIA T1F CL | CL I-90 | 3094+51.0 | 76.0 | LT | 636.07 | 630.36 | -- | 624.22 | 624.24 | 9103 - DIA 15" | -- | 7054 - DIA 48" | 7055 - DIA 48" | -- | DRN-4 | TAPERED |
| 7055 | MAN TA 7 DIA T1F CL | CANFIELD EXIT RAMP | 100+76.0 | 3.5 | LT | 638.98 | 634.73 | -- | 624.49 | 624.49 | 9107 - DIA 15" | -- | 7055 - DIA 48" | 7090 - DIA 48" | -- | DRN-4 | TAPERED |
| 7056 | MAN TA 7 DIA T1F CL | CANFIELD EXIT RAMP | 103+23.0 | 0.5 | LT | 640.90 | 636.37 | -- | 624.87 | 624.94 | 9108 - DIA 15" | -- | 7056 - DIA 48" | 7057 - DIA 48" | -- | DRN-4 | TAPERED |
| 7057 | MAN TA 8 DIA T1F CL | CANFIELD EXIT RAMP | 105+50.0 | 0.2 | LT | 642.09 | -- | 625.23 | 625.16 | 636.76 | -- | 7058 - DIA 48" | 7057 - DIA 48" | -- | DRN-4 | TAPERED | |
| 7058 | MAN TA 8 DIA T1F CL | CL I-90 | 3087+35.0 | 74.8 | LT | 641.37 | 625.25 | -- | -- | 625.32 | 7058 - DIA 48" | -- | -- | 7059 - DIA 48" | -- | DRN-4 | TAPERED |
| 7059 | MAN TA 7 DIA T1F CL | CL I-90 | 3086+95.0 | 74.8 | LT | 641.35 | 637.35 | -- | 625.36 | 625.42 | 9118 - DIA 12" | -- | 7059 - DIA 48" | 7060 - DIA 48" | -- | DRN-4 | TAPERED |
| 7060 | MAN TA 7 DIA T1F CL | CL I-90 | 3083+85.0 | 74.8 | LT | 639.72 | 636.06 | -- | 625.73 | 625.80 | 9119 - DIA 8" | -- | 7060 - DIA 48" | 7061 - DIA 48" | -- | DRN-4 | TAPERED |
| 7061 | MAN TA 7 DIA T1F CL | CL I-90 | 3081+35.0 | 74.8 | LT | 637.64 | 633.64 | -- | 626.04 | 626.12 | 9120 - DIA 12" | -- | 7061 - DIA 48" | 7062 - DIA 48" | -- | DRN-4 | TAPERED |
| 7062 | MAN TA 8 DIA T1F CL | CL I-90 | 3078+85.0 | 71.5 | LT | 636.47 | 630.01 | -- | 626.36 | 626.43 | 9121 - DIA 15" | -- | 7062 - DIA 48" | 7063 - DIA 48" | -- | DRN-4 | TAPERED |
| 7063 | MAN TA 7 DIA T20F&G | CL I-90 | 3076+50.0 | 73.4 | LT | 635.22 | 631.13 | -- | 626.66 | 626.73 | 9162 - DIA 12" | -- | 7063 - DIA 48" | 7068 - DIA 48" | -- | DRN-4 | TAPERED |
| 7064 | MAN TA 8 DIA T1F CL | CL I-90 | 3074+34.0 | 69.8 | LT | 634.58 | 629.54 | -- | 627.00 | 627.28 | 9123 - DIA 15" | -- | 7064 - DIA 48" | 7065 - DIA 48" | -- | DRN-4 | TAPERED |
| 7065 | MAN TA 8 DIA T1F CL | CL I-90 | 3072+50.0 | 78.1 | LT | 635.75 | 631.29 | -- | 627.46 | 627.56 | 9125 - DIA 15" | -- | 7065 - DIA 48" | 7066 - DIA 48" | -- | DRN-4 | TAPERED |
| 7066 | MAN TA 8 DIA T1F CL | CL I-90 | 3071+00.0 | 80.1 | LT | 637.81 | 633.24 | -- | 629.74 | 629.84 | 9126 - DIA 15" | -- | 7066 - DIA 48" | 7067 - DIA 48" | -- | DRN-4 | TAPERED |
| 7067 | MAN TA 6 DIA T1F CL | CL I-90 | 3069+41.0 | 81.4 | LT | 640.20 | 635.15 | -- | 632.14 | -- | 9127 - DIA 18" | -- | 7067 - DIA 48" | -- | -- | DRN-3 | FLAT |
| 7068 | MAN TA 7 DIA T1F OL | CL I-90 | 3076+21.3 | 69.5 | LT | 635.17 | -- | -- | 626.75 | 626.82 | -- | -- | | | | | |

DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE NO. | STRUCTURE DESCRIPTION | CENTERLINE | | | | PROPOSED RIM ELEVATION | INVERTS | | | | PIPE CONNECTIONS (Pipe No. - Pipe Size) | | | | SHEET NO. | STRUCTURE TOP | |
|---------------|-----------------------|--------------------|-----------|--------|------|------------------------|---------|--------|--------|--------|---|----------------|----------------|----------------|----------------|---------------|------|
| | | ALIGNMENT | STATION | OFFSET | DIR. | | NORTH | SOUTH | EAST | WEST | NORTH | SOUTH | EAST | WEST | | | |
| 7108 | MAN TA 9 DIA T1F CL | CUMBERLAND RAMP DD | 1007+85.0 | 8.0 | RT | 632.39 | -- | -- | 617.66 | 617.65 | -- | -- | 7008 - DIA 60" | 7108 - DIA 60" | DRN-1 | TAPERED | |
| 8049 | MAN TA 6 DIA T1F CL | CUMBERLAND RAMP DD | 1002+04.5 | 5.0 | RT | 634.61 | 623.33 | -- | -- | 623.33 | EP - DIA 36" | -- | -- | 8049 - DIA 36" | DRN-2 | TAPERED | |
| 8050 | CONC ES 542001 48 1:4 | WB CD | 28+24.0 | 75.0 | RT | -- | -- | 627.50 | -- | -- | -- | 7024 - DIA 48" | -- | -- | DRN-2 | -- | |
| 8051 | CB TA 4 DIA T8G | WB CD | 33+59.0 | 72.5 | RT | 631.60 | -- | 626.60 | -- | -- | -- | 8051 - DIA 24" | -- | -- | DRN-2 | FLAT | |
| 8052 | CB TA 4 DIA T8G | WB CD | 35+40.0 | 100.0 | RT | 631.40 | -- | 626.90 | -- | -- | -- | 8052 - DIA 18" | -- | -- | DRN-2 | FLAT | |
| 8053 | CB TA 4 DIA T8G | WB CD | 22+47.0 | 51.0 | RT | 633.00 | -- | 629.00 | -- | -- | -- | 8053 - DIA 18" | -- | -- | DRN-2 | FLAT | |
| 8055 | CB TA 4 DIA T8G | CUMBERLAND RAMP CC | 808+00.0 | 35.0 | RT | 632.00 | -- | 628.00 | -- | -- | -- | 8055 - DIA 18" | -- | -- | DRN-2 | FLAT | |
| 8056 | CB TA 4 DIA T8G | WB CD | 52+14.0 | 130.0 | RT | 631.82 | 627.50 | -- | 627.14 | -- | EP - DIA 12" | -- | 8056 - DIA 21" | -- | DRN-1 | FLAT | |
| 8057 | CB TA 4 DIA T8G | CUMBERLAND RAMP DD | 1002+52.0 | 38.0 | RT | 627.70 | 623.30 | 623.20 | -- | -- | EP - DIA 18" | 8057 - DIA 21" | -- | -- | DRN-2 | FLAT | |
| 8059 | CONC ES 542001 48 1:4 | CUMBERLAND RAMP DD | 1002+60.0 | 47.0 | RT | -- | -- | 624.00 | -- | -- | -- | 8059 - DIA 48" | -- | -- | DRN-2 | -- | |
| 8060 | MH TA 8D W/2 T1FCL RP | CUMBERLAND RAMP DD | 1002+60.0 | 20.0 | RT | 634.56 | 623.96 | 623.86 | -- | -- | 8059 - DIA 48" | 8060 - DIA 48" | -- | -- | DRN-2 | TAPERED | |
| 8061 | CB TA 4 DIA T8G | WB CD | 51+43.0 | 57.0 | RT | 633.30 | 626.50 | 626.02 | -- | -- | 8063 - DIA 21" | 8061 - DIA 21" | -- | -- | DRN-1 | TAPERED | |
| 8062 | CB TA 4 DIA T8G | WB CD | 47+48.0 | 77.0 | RT | 628.30 | -- | 623.50 | -- | -- | -- | 8062 - DIA 18" | -- | -- | DRN-2 | FLAT | |
| 8063 | CB TA 4 DIA T8G | WB CD | 51+43.0 | 114.0 | RT | 631.51 | -- | 626.76 | -- | 626.80 | -- | 8063 - DIA 21" | -- | 8056 - DIA 21" | DRN-1 | FLAT | |
| 8064 | CB TA 4 DIA T8G | WB CD | 39+00.0 | 78.0 | RT | 630.80 | -- | 626.55 | -- | -- | -- | 8064 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 8065 | CB TA 4 DIA T8G | CUMBERLAND RAMP C | 705+25.0 | 22.0 | RT | 635.57 | -- | 631.58 | -- | -- | -- | 8065 - DIA 24" | -- | -- | DRN-3 | FLAT | |
| 8100 | CB TA 4 DIA T23F&G | CUMBERLAND RAMP CC | 801+62.0 | 1.2 | RT | 637.51 | -- | -- | 629.55 | -- | -- | -- | 8100 - DIA 15" | -- | DRN-6 | TAPERED | |
| 8101 | CB TA 4 DIA T23F&G | CUMBERLAND RAMP CC | 803+58.0 | 5.1 | RT | 635.08 | -- | 628.55 | 628.65 | 628.65 | -- | 8101 - DIA 24" | 8200 - DIA 15" | 8100 - DIA 15" | DRN-6 | TAPERED | |
| 8102 | CB TA 4 DIA T20F&G | CUMBERLAND RAMP CC | 805+70.0 | 6.0 | RT | 633.97 | 628.22 | 628.17 | -- | -- | 8101 - DIA 24" | 8102 - DIA 24" | -- | -- | DRN-2 | FLAT | |
| 8103 | CB TA 4 DIA T20F&G | CUMBERLAND RAMP CC | 805+95.0 | 6.0 | RT | 633.91 | 628.14 | 628.09 | -- | -- | 8102 - DIA 24" | 8103 - DIA 24" | -- | -- | DRN-2 | FLAT | |
| 8104 | CB TA 4 DIA T20F&G | CUMBERLAND RAMP CC | 806+20.0 | 6.0 | RT | 633.96 | 628.06 | -- | -- | 628.04 | 8103 - DIA 24" | -- | -- | 8104 - DIA 30" | DRN-2 | FLAT | |
| 9000 | CB TA 4 DIA T20F&G | CUMBERLAND RAMP DD | 1003+43.0 | 45.8 | LT | 636.73 | 631.43 | 631.53 | -- | -- | 9000 - DIA 15" | 9001 - DIA 15" | -- | -- | DRN-2 | TAPERED | |
| 9001 | INLETS TA T20F&G | CUMBERLAND RAMP DD | 1003+43.0 | 52.0 | LT | 636.50 | 631.56 | -- | -- | -- | 9001 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9002 | CB TA 4 DIA T20F&G | WB CD | 52+45.0 | 4.0 | LT | 636.16 | 631.96 | 632.06 | -- | -- | 9002 - DIA 15" | 9003 - DIA 15" | -- | -- | DRN-1 | FLAT | |
| 9003 | INLETS TA T20F&G | WB CD | 52+45 | 10.0 | LT | 636.23 | 632.09 | -- | -- | -- | 9003 - DIA 15" | -- | -- | -- | DRN-1 | -- | |
| 9004 | CB TA 4 DIA T20F&G | WB CD | 50+08 | 4.0 | LT | 635.44 | 631.16 | 631.26 | -- | -- | 9004 - DIA 15" | 9005 - DIA 15" | -- | -- | DRN-1 | FLAT | |
| 9005 | INLETS TA T20F&G | WB CD | 50+08 | 10.0 | LT | 635.44 | 631.29 | -- | -- | -- | 9005 - DIA 15" | -- | -- | -- | DRN-1 | -- | |
| 9006 | CB TA 4 DIA T20F&G | WB CD | 47+58 | 4.0 | LT | 634.67 | 628.87 | 630.42 | 629.48 | -- | 9010 - DIA 18" | 9007 - DIA 15" | 9006 - DIA 15" | -- | DRN-2 | FLAT | |
| 9007 | INLETS TA T20F&G | WB CD | 47+58 | 10.0 | LT | 634.70 | 630.45 | -- | -- | -- | 9007 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9008 | CB TA 4 DIA T20F&G | WB CD | 46+70 | 4.0 | LT | 634.50 | -- | 630.29 | 629.22 | 630.32 | -- | -- | 9009 - DIA 15" | 9008 - DIA 15" | 9006 - DIA 15" | DRN-2 | FLAT |
| 9009 | INLETS TA T20F&G | WB CD | 46+70 | 10.0 | LT | 634.57 | 630.32 | -- | -- | -- | 9009 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9010 | CB TA 4 DIA T20F&G | WB CD | 46+50 | 4.0 | LT | 634.51 | -- | 630.33 | -- | 629.38 | -- | 9011 - DIA 15" | 9011 - DIA 15" | -- | 9008 - DIA 15" | DRN-2 | FLAT |
| 9011 | INLETS TA T20F&G | WB CD | 46+50 | 10.0 | LT | 634.61 | 630.36 | -- | -- | -- | 9011 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9012 | CB TA 4 DIA T20F&G | WB CD | 44+00 | 4.0 | LT | 635.51 | 631.09 | 631.19 | -- | -- | 9012 - DIA 15" | 9013 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 9013 | INLETS TA T20F&G | WB CD | 44+00 | 10.0 | LT | 635.47 | 631.22 | -- | -- | -- | 9013 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9014 | CB TA 4 DIA T20F&G | WB CD | 41+50 | 4.0 | LT | 636.63 | 632.24 | 632.34 | -- | -- | 9014 - DIA 15" | 9015 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 9015 | INLETS TA T20F&G | WB CD | 41+50 | 10.0 | LT | 636.62 | 632.37 | -- | -- | -- | 9015 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9016 | CB TA 4 DIA T20F&G | WB CD | 39+00 | 4.0 | LT | 637.76 | 631.13 | 631.23 | -- | -- | 9016 - DIA 15" | 9017 - DIA 15" | -- | -- | DRN-2 | TAPERED | |
| 9017 | INLETS TA T20F&G | WB CD | 39+00 | 10.0 | LT | 637.83 | 631.26 | -- | -- | -- | 9017 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9018 | CB TA 4 DIA T20F&G | WB CD | 33+63 | 0.3 | LT | 637.63 | 633.30 | 633.40 | -- | -- | 9018 - DIA 15" | 9019 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 9019 | INLETS TA T20F&G | WB CD | 33+63 | 13.7 | LT | 637.68 | 633.43 | -- | -- | -- | 9019 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9020 | CB TA 4 DIA T20F&G | WB CD | 31+50 | 4.0 | LT | 636.38 | 631.97 | 632.07 | -- | -- | 9020 - DIA 15" | 9021 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 9021 | INLETS TA T20F&G | WB CD | 31+50 | 10.0 | LT | 636.35 | 632.10 | -- | -- | -- | 9021 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9022 | CB TA 4 DIA T20F&G | WB CD | 29+00 | 4.0 | LT | 635.09 | 630.41 | 630.51 | -- | -- | 9022 - DIA 15" | 9023 - DIA 15" | -- | -- | DRN-2 | FLAT | |
| 9023 | INLETS TA T20F&G | WB CD | 29+00 | 10.0 | LT | 634.79 | 630.54 | -- | -- | -- | 9023 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9024 | CB TA 4 DIA T20F&G | WB CD | 27+20 | 4.0 | LT | 634.27 | -- | 629.67 | 629.57 | -- | -- | 9025 - DIA 15" | 9024 - DIA 15" | -- | DRN-2 | FLAT | |
| 9025 | INLETS TA T20F&G | WB CD | 27+20 | 10.0 | LT | 633.95 | 629.70 | -- | -- | -- | 9025 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9026 | CB TA 4 DIA T20F&G | WB CD | 27+02 | 4.0 | LT | 634.26 | 629.32 | 629.66 | -- | 629.42 | 9026 - DIA 15" | 9027 - DIA 15" | -- | 9024 - DIA 15" | DRN-2 | FLAT | |
| 9027 | INLETS TA T20F&G | WB CD | 27+02 | 10.0 | LT | 633.94 | 629.69 | -- | -- | -- | 9027 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9028 | CB TA 4 DIA T20F&G | WB CD | 25+85 | 4.0 | LT | 634.69 | 628.71 | 630.04 | 628.81 | -- | 9028 - DIA 15" | 9029 - DIA 15" | 9030 - DIA 15" | -- | DRN-2 | FLAT | |
| 9029 | INLETS TA T20F&G | WB CD | 25+85 | 10.0 | LT | 634.32 | 630.07 | -- | -- | -- | 9029 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9030 | CB TA 4 DIA T20F&G | WB CD | 23+35 | 4.0 | LT | 636.07 | -- | 631.37 | -- | 631.27 | -- | 9031 - DIA 15" | -- | 9030 - DIA 15" | DRN-2 | FLAT | |
| 9031 | INLETS TA T20F&G | WB CD | 23+35 | 10.0 | LT | 635.65 | 631.40 | -- | -- | -- | 9031 - DIA 15" | -- | -- | -- | DRN-2 | -- | |
| 9032 | CB TA 4 DIA T20F&G | WB CD | 20+85 | 4.0 | LT | 637.45 | 632.73 | 632.83 | -- | -- | 9032 - DIA 15" | 9033 - DIA 15" | -- | -- | DRN-3 | FLAT | |
| 9033 | INLETS TA T20F&G | WB CD | 20+85 | 10.0 | LT | 637.11 | 632.86 | -- | -- | -- | 9033 - DIA 15" | -- | -- | -- | DRN-3 | -- | |
| 9034 | CB TA 4 DIA T20F&G | WB CD | 18+35 | 4.0 | LT | 638.83 | 634.22 | 634.32 | -- | -- | 9034 - DIA 15" | 9035 - DIA 15" | -- | -- | DRN-3 | FLAT | |
| 9035 | INLETS TA T20F&G | WB CD | 18+35 | 10.0 | LT | 638.60 | 634.35 | -- | -- | -- | 9035 - DIA 15" | -- | -- | -- | DRN-3 | -- | |
| 9036 | CB TA 4 DIA T20F&G | WB CD | 15+85 | 4.0 | LT | 640.20 | 634.90 | 635.88 | 634.93 | -- | 9036 - DIA 18" | 9037 - DIA 15" | 9038 - DIA 18" | -- | DRN-3 | FLAT | |
| 9037 | INLETS TA T20F&G | WB CD | 15+85 | 10.0 | LT | 640.15 | 635.90 | -- | -- | -- | 9037 - DIA 15" | -- | -- | -- | DRN-3 | -- | |
| 9038 | CB TA 4 DIA T20F&G | WB CD | 13+35 | 4.0 | LT | 641.58 | -- | 637.40 | 637.41 | 637.39 | -- | 9039 - DIA 15" | 9040 - DIA 18" | 9038 - DIA 18" | DRN-3 | FLAT | |
| 9039 | INLETS TA T20F&G | WB CD | 13+35 | 10.0 | LT | 641.56 | 637.42 | -- | -- | -- | 9039 - DIA 15" | -- | -- | -- | DRN-3 | -- | |
| 9040 | CB TA 4 DIA T20F&G | WB CD | 11+35 | 5.0 | LT | 642.64 | -- | 638.50 | 638.50 | 638.49 | -- | 9041 - DIA 15" | 9045 - DIA 15" | 9040 - DIA 18" | DRN-3 | FLAT | |
| 9041 | INLETS TA T20F&G | WB CD | 11+35 | 11.5 | LT | 642.70 | 638.52 | -- | -- | -- | 9041 - DIA 15" | -- | -- | -- | DRN-3 | -- | |
| 9042 | CB TA 4 DIA T9F&G | WB CD | 8+12 | 35.5 | RT | 644.61 | -- | -- | 641.27 | 641.27 | -- | -- | 9043 - DIA 18" | 7037 - DIA 18" | DRN-3 | FLAT | |
| 9043 | CB TA 4 DIA T9F&G | WB CD | 8+03 | 35.5 | RT | 644.56 | -- | -- | 641.29 | 641.29 | -- | -- | 9044 - DIA 15" | 9043 - DIA 18" | DRN-3 | FLAT | |
| 9044 | INLETS TA T9F&G | WB CD | 6+50 | 35.5 | RT | 644.34 | -- | -- | -- | 642.21 | -- | -- | -- | 9044 - DIA 15" | DRN-3 | -- | |
| 9045 | INLETS TA T1F OL | WB CD | 8+45 | 6.7 | LT | 644.15 | -- | -- | -- | 639.42 | -- | -- | -- | 9045 - DIA 15" | DRN-3 | -- | |
| 9100 | INLETS TA T20F&G | Ø I-90 | 3100+00 | 82.8 | LT | 638.51 | -- | 634.26 | -- | -- | -- | 9100 - DIA 15" | -- | -- | DRN-5 | -- | |
| 9101 | INLETS TA T20F&G | Ø I-90 | 3097+50 | 83.1 | LT | 636.90 | -- | 632.64 | -- | -- | -- | 9101 - DIA 15" | -- | -- | DRN-5 | -- | |
| 9102 | INLETS TA T20F&G | Ø I-90 | 3096+50 | 83.7 | LT | 636.28 | -- | 632.02 | -- | -- | -- | 9102 - DIA 15" | -- | -- | DRN-5</ | | |

DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE NO. | STRUCTURE DESCRIPTION | CENTERLINE | | | | PROPOSED RIM ELEVATION | INVERTS | | | | PIPE CONNECTIONS (Pipe No. - Pipe Size) | | | | SHEET NO. | STRUCTURE TOP |
|---------------|-----------------------|--------------------|---------|--------|------|------------------------|---------|--------|--------|--------|---|----------------|----------------|----------------|-----------|---------------|
| | | ALIGNMENT | STATION | OFFSET | DIR. | | NORTH | SOUTH | EAST | WEST | NORTH | SOUTH | EAST | WEST | | |
| 9103 | CB TA 4 DIA T20F&G | ☐ I-90 | 3094+51 | 83.9 | LT | 635.65 | -- | 630.39 | 630.49 | 631.66 | -- | 9103 - DIA 15" | 9104 - DIA 15" | 9106 - DIA 15" | DRN-4 | FLAT |
| 9104 | CB TA 4 DIA T20F&G | ☐ I-90 | 3095+05 | 83.6 | LT | 635.59 | 631.50 | -- | 631.05 | 630.95 | 9204 - DIA 12" | -- | 9105 - DIA 15" | -- | DRN-4 | FLAT |
| 9105 | INLETS TA T20F&G | ☐ I-90 | 3095+50 | 84.4 | LT | 635.64 | -- | -- | -- | 631.52 | -- | -- | -- | 9105 - DIA 15" | DRN-4 | -- |
| 9106 | INLETS TA T20F&G | ☐ I-90 | 3094+30 | 85.1 | LT | 636.09 | -- | -- | 631.84 | -- | -- | -- | 9106 - DIA 15" | -- | DRN-4 | -- |
| 9107 | CB TA 4 DIA T20F&G | CANFIELD EXIT RAMP | 100+76 | 3.7 | RT | 638.84 | 634.84 | 634.75 | -- | -- | 9207 - DIA 12" | 9107 - DIA 15" | -- | -- | DRN-4 | FLAT |
| 9108 | INLETS TA T20F&G | CANFIELD EXIT RAMP | 103+29 | 4.8 | RT | 640.72 | -- | -- | 636.40 | -- | -- | 9108 - DIA 15" | -- | -- | DRN-4 | -- |
| 9110 | CB TA 4 DIA T20F&G | CANFIELD EXIT RAMP | 106+25 | 0.7 | RT | 642.34 | 638.46 | 637.71 | 637.46 | 637.56 | 9160 - DIA 12" | 9116 - DIA 12" | 9110 - DIA 15" | 9111 - DIA 15" | DRN-4 | FLAT |
| 9111 | CB TA 4 DIA T23F&G | CANFIELD EXIT RAMP | 107+60 | 2.0 | RT | 644.78 | -- | 640.71 | 639.99 | 640.09 | -- | 9115 - DIA 12" | 9111 - DIA 15" | 9112 - DIA 15" | DRN-4 | FLAT |
| 9112 | CB TA 4 DIA T23F&G | CANFIELD EXIT RAMP | 108+60 | 2.0 | RT | 647.64 | -- | -- | 642.84 | 642.94 | -- | -- | 9112 - DIA 15" | 9113 - DIA 15" | DRN-4 | FLAT |
| 9113 | CB TA 4 DIA T23F&G | CANFIELD EXIT RAMP | 110+10 | 2.0 | RT | 651.87 | -- | 647.74 | 646.96 | -- | -- | 9114 - DIA 12" | 9113 - DIA 15" | -- | DRN-5 | FLAT |
| 9114 | INLETS TA T20F&G | CANFIELD EXIT RAMP | 110+10 | 17.5 | LT | 652.25 | 647.91 | -- | -- | -- | 9114 - DIA 12" | -- | -- | -- | DRN-5 | -- |
| 9115 | INLETS TA T20F&G | CANFIELD EXIT RAMP | 107+60 | 17.5 | LT | 645.28 | 640.88 | -- | -- | -- | 9115 - DIA 12" | -- | -- | -- | DRN-4 | -- |
| 9116 | INLETS TA T20F&G | CANFIELD EXIT RAMP | 106+25 | 18.2 | LT | 641.93 | 637.86 | -- | -- | -- | 9116 - DIA 12" | -- | -- | -- | DRN-4 | -- |
| 9117 | INLETS TA T20F&G | CANFIELD EXIT RAMP | 106+00 | 18.6 | LT | 641.52 | 638.08 | -- | -- | -- | 9117 - DIA 12" | -- | -- | -- | DRN-4 | -- |
| 9118 | INLETS TA T20F&G | ☐ I-90 | 3086+90 | 83.7 | LT | 641.17 | -- | 639.00 | -- | -- | -- | 9118 - DIA 12" | -- | -- | DRN-4 | -- |
| 9119 | INLETS TA T20F&G | ☐ I-90 | 3083+85 | 82.8 | LT | 638.47 | -- | 636.80 | -- | -- | -- | 9119 - DIA 8" | -- | -- | DRN-4 | -- |
| 9120 | INLETS TA T20F&G | ☐ I-90 | 3081+35 | 82.8 | LT | 637.26 | -- | 635.50 | -- | -- | -- | 9120 - DIA 12" | -- | -- | DRN-4 | -- |
| 9121 | CB TA 4 DIA T20F&G | ☐ I-90 | 3078+85 | 80.1 | LT | 636.04 | -- | 630.03 | -- | 630.14 | -- | 9121 - DIA 15" | -- | 9122 - DIA 15" | DRN-4 | TAPERED |
| 9122 | INLETS TA T20F&G | ☐ I-90 | 3077+70 | 79.7 | LT | 635.51 | -- | -- | 631.26 | -- | -- | -- | 9122 - DIA 15" | -- | DRN-4 | -- |
| 9123 | CB TA 4 DIA T20F&G | ☐ I-90 | 3074+37 | 76.8 | LT | 634.21 | 630.36 | 629.60 | 629.77 | 629.82 | 9161 - DIA 12" | 9123 - DIA 15" | 9131 - DIA 12" | 9134 - DIA 15" | DRN-4 | FLAT |
| 9124 | INLETS TA T20F&G | ☐ I-90 | 3074+07 | 79.5 | LT | 634.33 | -- | -- | 630.08 | -- | -- | -- | 9124 - DIA 15" | -- | DRN-4 | -- |
| 9125 | INLETS TA T20F&G | ☐ I-90 | 3072+50 | 85.8 | LT | 635.39 | -- | 631.32 | -- | -- | -- | 9125 - DIA 15" | -- | -- | DRN-4 | -- |
| 9126 | INLETS TA T20F&G | ☐ I-90 | 3071+00 | 87.9 | LT | 637.44 | -- | 633.26 | -- | -- | -- | 9126 - DIA 15" | -- | -- | DRN-4 | -- |
| 9127 | CB TA 4 DIA T20F&G | ☐ I-90 | 3069+40 | 88.9 | LT | 639.69 | -- | 635.19 | -- | 635.19 | -- | 9127 - DIA 18" | -- | 9128 - DIA 18" | DRN-3 | FLAT |
| 9128 | CB TA 4 DIA T20F&G | ☐ I-90 | 3068+00 | 91.0 | LT | 641.71 | -- | -- | 636.56 | 637.45 | -- | -- | 9128 - DIA 18" | 9132 - DIA 15" | DRN-3 | FLAT |
| 9129 | CB TA 4 DIA T9F&G | WB CD | 0+31 | 35.5 | RT | 644.16 | -- | -- | 639.43 | 639.35 | -- | -- | 9129 - DIA 15" | 9130 - DIA 15" | DRN-3 | FLAT |
| 9130 | INLETS TA T9F&G | WB CD | 2+32 | 35.5 | RT | 645.49 | -- | -- | 641.34 | -- | -- | -- | 9130 - DIA 15" | -- | DRN-3 | -- |
| 9131 | INLETS TA T20F&G | ☐ I-90 | 3074+48 | 77.2 | LT | 634.21 | -- | -- | -- | 630.04 | -- | -- | -- | 9131 - DIA 12" | DRN-4 | -- |
| 9132 | CB TA 4 DIA T20F&G | ☐ I-90 | 3066+92 | 92.5 | LT | 643.27 | -- | -- | 638.50 | 638.54 | -- | -- | 9132 - DIA 15" | 9129 - DIA 15" | DRN-3 | FLAT |
| 9134 | CB TA 4 DIA T20F&G | ☐ I-90 | 3074+22 | 77.6 | LT | 634.27 | -- | -- | 629.94 | 629.95 | -- | -- | 9134 - DIA 15" | 9124 - DIA 15" | DRN-4 | FLAT |
| 9135 | CB TA 4 DIA T20F&G | HARLEM RAMP D | 106+00 | 0.7 | RT | 642.15 | -- | 637.86 | 637.20 | 637.25 | -- | 9117 - DIA 12" | 9135 - DIA 15" | 9110 - DIA 15" | DRN-4 | FLAT |
| 9150 | CB TA 4 DIA T20F&G | ☐ I-90 | 3102+50 | 81.7 | LT | 640.98 | -- | 636.72 | -- | 636.98 | -- | 9150 - DIA 15" | -- | 9205 - DIA 12" | DRN-5 | FLAT |
| 9151 | CB TA 4 DIA T9F&G | HARLEM RAMP D | 110+55 | 5.6 | RT | 641.79 | -- | -- | 632.54 | 632.49 | -- | -- | 9152 - DIA 21" | 9151 - DIA 24" | DRN-5 | TAPERED |
| 9152 | CB TA 4 DIA T9F&G | HARLEM RAMP D | 108+05 | 5.6 | RT | 639.53 | -- | -- | 633.43 | 633.18 | -- | -- | 9153 - DIA 15" | 9152 - DIA 21" | DRN-4 | TAPERED |
| 9153 | CB TA 4 DIA T9F&G | HARLEM RAMP D | 106+05 | 5.6 | RT | 637.17 | -- | -- | 633.92 | 633.92 | -- | -- | 9154 - DIA 15" | 9153 - DIA 15" | DRN-4 | FLAT |
| 9154 | CB TA 4 DIA T9F&G | HARLEM RAMP D | 105+57 | 5.2 | RT | 636.97 | -- | 634.29 | 634.29 | 634.03 | -- | 9156 - DIA 12" | 9155 - DIA 12" | DRN-4 | FLAT | |
| 9155 | INLETS TA T9F&G | HARLEM RAMP D | 105+50 | 5.2 | RT | 636.97 | -- | -- | -- | 634.31 | -- | -- | -- | 9155 - DIA 12" | DRN-4 | -- |
| 9156 | INLETS TA T9F&G | HARLEM RAMP D | 105+57 | 17.6 | LT | 637.85 | 634.38 | -- | -- | -- | 9156 - DIA 12" | -- | -- | -- | DRN-4 | -- |
| 9157 | CB TA 4 DIA T1F OL | ☐ I-90 | 3112+48 | 62.7 | LT | 637.53 | -- | 632.57 | -- | -- | -- | EP - DIA 10" | -- | -- | DRN-5 | TAPERED |
| 9158 | INLETS TA T20F&G | ☐ I-90 | 3104+02 | 77.0 | LT | 642.31 | -- | 638.05 | -- | -- | -- | 9158 - DIA 15" | -- | -- | DRN-5 | -- |
| 9159 | CB TA 4 DIA T20F&G | ☐ I-90 | 3104+55 | 76.4 | LT | 642.41 | 638.37 | 638.27 | -- | -- | 9163 - DIA 12" | 9159 - DIA 15" | -- | -- | DRN-5 | FLAT |
| 9200 | INLETS TA T20F&G | CUMBERLAND RAMP CC | 809+53 | 4.8 | RT | 634.46 | -- | 630.46 | -- | -- | -- | 9200 - DIA 12" | -- | -- | DRN-2 | -- |
| 9201 | CB TA 4 DIA T20F&G | CUMBERLAND RAMP DD | 1000+59 | 3.7 | RT | 634.02 | -- | 629.90 | 629.99 | 629.99 | -- | 9201 - DIA 12" | 9203 - DIA 12" | 9202 - DIA 12" | DRN-2 | FLAT |
| 9202 | INLETS TA T20F&G | CUMBERLAND RAMP DD | 1000+69 | 4.8 | RT | 634.02 | -- | -- | 630.02 | -- | -- | -- | 9202 - DIA 12" | -- | DRN-2 | -- |
| 9203 | INLETS TA T20F&G | CUMBERLAND RAMP DD | 1000+49 | 4.8 | RT | 634.02 | -- | -- | -- | 630.02 | -- | -- | -- | 9203 - DIA 12" | DRN-2 | -- |
| 9204 | INLETS TA T10F&G | ☐ I-90 | 3095+05 | 88.8 | LT | 640.32 | -- | 631.52 | -- | -- | -- | 9204 - DIA 12" | -- | -- | DRN-4 | -- |
| 9205 | INLETS TA T10F&G | ☐ I-90 | 3102+11 | 87.5 | LT | 643.84 | -- | -- | 637.33 | -- | -- | -- | 9205 - DIA 12" | -- | DRN-5 | -- |
| 9207 | CB TA 4 DIA T10F&G | HARLEM RAMP D | 100+76 | 10.0 | RT | 643.55 | -- | 634.89 | 636.27 | -- | -- | 9207 - DIA 12" | 9208 - DIA 12" | -- | DRN-4 | TAPERED |
| 9208 | INLETS TA T10F&G | HARLEM RAMP D | 100+00 | 14.5 | RT | 641.00 | -- | -- | -- | 637.00 | -- | -- | -- | 9208 - DIA 12" | DRN-4 | -- |
| 9210 | INLETS TA T10F&G | ☐ I-90 | 3086+62 | 112.6 | LT | 643.61 | -- | 638.49 | -- | -- | -- | 9160 - DIA 12" | -- | -- | DRN-4 | -- |
| 9223 | INLETS TA T10F&G | ☐ I-90 | 3074+37 | 82.0 | LT | 637.93 | -- | 630.38 | -- | -- | -- | 9161 - DIA 12" | -- | -- | DRN-4 | -- |
| 9263 | INLETS TA T10F&G | ☐ I-90 | 3076+50 | 80.1 | LT | 638.41 | -- | 631.16 | -- | -- | -- | 9162 - DIA 12" | -- | -- | DRN-4 | -- |
| 9286 | INLETS TA T1F OL | ☐ I-90 | 3104+58 | 83.0 | LT | 642.41 | -- | 638.41 | -- | -- | -- | 9163 - DIA 12" | -- | -- | DRN-5 | -- |

ES = EXISTING STRUCTURE
EP = EXISTING PIPE

| PIPE NO. | DRAWING NO. | ALIGNMENT | STATION | OFFSET | INVERT (FT) | QUANTITY (EACH) |
|----------|-------------|-----------|---------|--------|-------------|-----------------|
| HWL-1 | DRN-01 | WB 190 | 1011+40 | 18.12 | 629.50 | 1 |
| HWL-2 | DRN-01 | WB 190 | 1009+37 | 13.69 | 629.50 | 1 |
| HWL-3 | DRN-01 | WB 190 | 1005+39 | 14.85 | 630.50 | 1 |
| HWL-4 | DRN-01 | WB CD | 50+27 | 59.41 | 632.00 | 1 |
| HWL-5 | DRN-02 | WB CD | 46+61 | 65.19 | 629.00 | 1 |
| HWL-7 | DRN-02 | RAMP D | 916+01 | 29.32 | 630.50 | 1 |
| HWL-14 | DRN-03 | WB CD | 12+11 | 40.48 | 639.00 | 1 |
| TOTAL | | | | | | 7 |

| PIPE NO. | DRAWING NO. | ALIGNMENT | STATION | OFFSET | INVERT (FT) | QUANTITY (EACH) |
|----------|-------------|-----------|---------|--------|-------------|-----------------|
| HWL-20 | DRN-01 | WB 190 | 2993+88 | -90.25 | 627.50 | 1 |
| HWL-21 | DRN-01 | WB 190 | 2993+98 | -90.03 | 627.50 | 1 |
| HWL-22 | DRN-01 | WB 190 | 2996+48 | -89.82 | 628.00 | 1 |
| HWL-23 | DRN-01 | WB 190 | 2996+58 | -89.81 | 628.00 | 1 |
| HWL-24 | DRN-01 | WB 190 | 2998+28 | -94.66 | 629.00 | 1 |
| HWL-25 | DRN-01 | WB 190 | 2998+38 | -95.40 | 629.00 | 1 |
| TOTAL | | | | | | 6 |

DRN-15

exp
U.S. Services Inc.
Chicago, IL
BUILDINGS EARTH & ENVIRONMENT ENERGY
INDUSTRIAL INFRASTRUCTURE SUSTAINABILITY

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED HDU | REVISED - |
| | DRAWN HDU | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED DRAINAGE SCHEDULE**

SCALE: SHEET NO. 15 OF 20 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------|--------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 248 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60Y39 | |

FILE NAME = #FILE#

| STORM SEWER SCHEDULE | | | | | | | | | |
|----------------------|---------------------|-----------|-------------|-----------|------------------------|-----------|----------------|--------------|--|
| PIPE NO. | PIPE DESCRIPTION | PIPE SIZE | LENGTH (FT) | SLOPE (%) | TRENCH BACKFILL (CUYD) | SHEET NO. | FROM STRUCTURE | TO STRUCTURE | |
| 100 | STORM SEWERS JKD 48 | DIA 48" | 90 | 0.10 | 0.0 | DRN-5 | 100 | 101 | |
| 1050 | STORM SEW CL A 1 12 | DIA 12" | 197 | 0.26 | 78.9 | DRN-5 | ES | ES | |
| 7000 | STORM SEWERS JKD 60 | DIA 60" | 159 | 0.13 | 0.0 | DRN-4 | 7000 | P | |
| 7001 | STORM SEW CL A 3 60 | DIA 60" | 183 | 0.13 | 0.0 | DRN-4 | 7001 | 7000 | |
| 7002 | STORM SEWERS JKD 60 | DIA 60" | 209 | 0.30 | 0.0 | DRN-6 | 7002 | 7001 | |
| 7003 | STORM SEW CL A 2 60 | DIA 60" | 186 | 0.13 | 0.0 | DRN-1 | 7003 | 7002 | |
| 7004 | STORM SEW CL A 3 60 | DIA 60" | 218 | 0.13 | 0.0 | DRN-1 | 7004 | 7003 | |
| 7005 | STORM SEW CL A 3 60 | DIA 60" | 176 | 0.13 | 0.0 | DRN-1 | 7005 | 7004 | |
| 7006 | STORM SEWERS JKD 60 | DIA 60" | 62 | 0.13 | 0.0 | DRN-1 | 7006 | P | |
| 7007 | STORM SEW CL A 3 60 | DIA 60" | 233 | 0.13 | 0.0 | DRN-1 | 7007 | 7006 | |
| 7008 | STORM SEW CL A 2 60 | DIA 60" | 91 | 0.13 | 0.0 | DRN-1 | 7008 | 7108 | |
| 7009 | STORM SEW CL A 3 60 | DIA 60" | 332 | 0.13 | 0.0 | DRN-2 | 7009 | 7008 | |
| 7010 | STORM SEW CL A 3 60 | DIA 60" | 89 | 0.13 | 0.0 | DRN-2 | 7010 | 7009 | |
| 7011 | STORM SEW CL A 3 60 | DIA 60" | 29 | 0.13 | 0.0 | DRN-1 | 7011 | 7029 | |
| 7012 | STORM SEW CL A 3 60 | DIA 60" | 127 | 0.13 | 0.0 | DRN-1 | 7012 | 7028 | |
| 7013 | STORM SEW CL A 2 60 | DIA 60" | 240 | 0.19 | 0.0 | DRN-2 | 7013 | 7012 | |
| 7014 | STORM SEW CL A 2 60 | DIA 60" | 349 | 0.13 | 0.0 | DRN-2 | 7014 | 7013 | |
| 7015 | STORM SEW CL A 3 60 | DIA 60" | 241 | 0.13 | 799.1 | DRN-2 | 7015 | 7014 | |
| 7016 | STORM SEW CL A 2 60 | DIA 60" | 240 | 0.13 | 764.6 | DRN-2 | 7016 | 7015 | |
| 7017 | STORM SEW CL A 2 60 | DIA 60" | 251 | 0.13 | 0.0 | DRN-2 | 7017 | 7016 | |
| 7018 | STORM SEW CL A 2 60 | DIA 60" | 92 | 0.13 | 0.0 | DRN-2 | 7018 | 7017 | |
| 7019 | STORM SEW CL A 2 60 | DIA 60" | 46 | 0.13 | 140.7 | DRN-2 | 7019 | 7018 | |
| 7020 | STORM SEW CL A 3 60 | DIA 60" | 146 | 0.13 | 507.0 | DRN-2 | 7020 | 7019 | |
| 7021 | STORM SEW CL A 2 60 | DIA 60" | 211 | 0.13 | 635.5 | DRN-2 | 7021 | 7020 | |
| 7022 | STORM SEW CL A 2 60 | DIA 60" | 59 | 0.13 | 152.4 | DRN-2 | 7022 | 7021 | |
| 7023 | STORM SEW CL A 2 48 | DIA 48" | 199 | 0.13 | 458.9 | DRN-2 | 7023 | 7022 | |
| 7024 | STORM SEW CL A 1 48 | DIA 48" | 36 | 0.11 | 9.5 | DRN-2 | 7024 | 8050 | |
| 7025 | STORM SEW CL A 1 48 | DIA 48" | 108 | 0.10 | 86.0 | DRN-2 | 7025 | 7024 | |
| 7026 | STORM SEW CL A 1 48 | DIA 48" | 106 | 0.10 | 83.8 | DRN-2 | 7026 | 7025 | |
| 7027 | STORM SEW CL A 2 48 | DIA 48" | 145 | 0.07 | 129.4 | DRN-2 | 7027 | 7026 | |
| 7028 | STORM SEW CL A 3 60 | DIA 60" | 93 | 0.13 | 0.0 | DRN-1 | 7028 | 7011 | |
| 7029 | STORM SEW CL A 3 60 | DIA 60" | 221 | 0.13 | 0.0 | DRN-2 | 7029 | 7010 | |
| 7030 | STORM SEW CL A 2 48 | DIA 48" | 163 | 0.11 | 211.6 | DRN-3 | 7030 | 7084 | |
| 7031 | STORM SEW CL A 2 36 | DIA 36" | 243 | 0.55 | 281.5 | DRN-3 | 7031 | 7030 | |
| 7032 | STORM SEW CL A 2 36 | DIA 36" | 42 | 0.55 | 40.8 | DRN-3 | 7032 | 7031 | |
| 7033 | STORM SEW CL A 2 36 | DIA 36" | 143 | 0.55 | 104.6 | DRN-3 | 7033 | 7085 | |
| 7034 | STORM SEW CL A 1 18 | DIA 18" | 38 | 7.49 | 0.0 | DRN-3 | 7034 | 7035 | |
| 7035 | STORM SEW CL A 1 18 | DIA 18" | 40 | 2.13 | 0.0 | DRN-3 | 7035 | 7033 | |
| 7037 | STORM SEW CL A 1 18 | DIA 18" | 40 | 0.42 | 0.0 | DRN-3 | 9042 | 7036 | |
| 7040 | STORM SEW CL A 3 60 | DIA 60" | 21 | 0.12 | 0.0 | DRN-1 | P | 7005 | |
| 7041 | STORM SEW CL A 3 60 | DIA 60" | 52 | 0.13 | 0.0 | DRN-6 | P | 7038 | |
| 7051 | STORM SEW CL A 3 48 | DIA 48" | 243 | 0.10 | 875.7 | DRN-5 | 7051 | 7080 | |
| 7052 | STORM SEW CL A 2 48 | DIA 48" | 238 | 0.10 | 697.3 | DRN-5 | 7052 | 7051 | |
| 7053 | STORM SEW CL A 2 48 | DIA 48" | 93 | 0.10 | 238.0 | DRN-5 | 7053 | 7052 | |
| 7054 | STORM SEW CL A 2 48 | DIA 48" | 192 | 0.10 | 448.7 | DRN-4 | 7054 | 7053 | |
| 7055 | STORM SEW CL A 2 48 | DIA 48" | 245 | 0.10 | 639.7 | DRN-4 | 7055 | 7054 | |
| 7056 | STORM SEW WM REQ 48 | DIA 48" | 45 | 0.10 | 0.0 | DRN-4 | 7056 | 7092 | |
| 7057 | STORM SEW CL A 3 48 | DIA 48" | 219 | 0.10 | 781.6 | DRN-4 | 7057 | 7056 | |
| 7058 | STORM SEW CL A 3 48 | DIA 48" | 23 | 0.10 | 83.6 | DRN-4 | 7058 | 7057 | |
| 7059 | STORM SEW CL A 3 48 | DIA 48" | 33 | 0.10 | 113.9 | DRN-4 | 7059 | 7058 | |
| 7060 | STORM SEW CL A 3 48 | DIA 48" | 305 | 0.10 | 953.3 | DRN-4 | 7060 | 7059 | |
| 7061 | STORM SEW CL A 2 48 | DIA 48" | 243 | 0.10 | 605.3 | DRN-4 | 7061 | 7060 | |
| 7062 | STORM SEW CL A 2 48 | DIA 48" | 243 | 0.10 | 467.5 | DRN-4 | 7062 | 7061 | |
| 7063 | STORM SEW CL A 2 48 | DIA 48" | 228 | 0.10 | 338.6 | DRN-4 | 7063 | 7062 | |
| 7064 | STORM SEW CL A 2 48 | DIA 48" | 181 | 0.10 | 198.6 | DRN-4 | 7064 | 7068 | |
| 7065 | STORM SEW CL A 2 48 | DIA 48" | 177 | 0.10 | 186.3 | DRN-4 | 7065 | 7064 | |
| 7066 | STORM SEW CL A 2 48 | DIA 48" | 143 | 1.52 | 164.3 | DRN-4 | 7066 | 7065 | |
| 7067 | STORM SEW CL A 2 48 | DIA 48" | 153 | 1.50 | 170.7 | DRN-3 | 7067 | 7066 | |
| 7068 | STORM SEW CL A 2 48 | DIA 48" | 22 | 0.10 | 27.3 | DRN-4 | 7068 | 7063 | |
| 7080 | STORM SEW CL A 3 48 | DIA 48" | 135 | 0.10 | 571.5 | DRN-5 | 7080 | 7081 | |
| 7081 | STORM SEW CL A 3 48 | DIA 48" | 41 | 0.11 | 183.8 | DRN-5 | 7081 | 7086 | |
| 7083 | STORM SEW CL A 2 48 | DIA 48" | 129 | 0.10 | 0.0 | DRN-2 | 7083 | 7027 | |
| 7084 | STORM SEW CL A 2 48 | DIA 48" | 53 | 0.08 | 50.1 | DRN-2 | 7084 | 7083 | |
| 7085 | STORM SEW CL A 2 36 | DIA 36" | 80 | 0.55 | 62.1 | DRN-3 | 7085 | 7032 | |
| 7086 | STORM SEW CL A 3 48 | DIA 48" | 114 | 0.10 | 513.1 | DRN-5 | 7086 | 100 | |
| 7090 | STORM SEW CL A 3 48 | DIA 48" | 140 | 0.10 | 441.2 | DRN-4 | 7090 | 7055 | |
| 7091 | STORM SEW CL A 3 48 | DIA 48" | 16 | 0.10 | 68.7 | DRN-4 | 7094 | 7090 | |
| 7108 | STORM SEW CL A 2 60 | DIA 60" | 205 | 0.13 | 0.0 | DRN-1 | 7108 | 7007 | |
| 8049 | STORM SEW CL A 2 36 | DIA 36" | 48 | 0.52 | 97.7 | DRN-2 | 8049 | 7023 | |
| 8051 | STORM SEW CL A 2 24 | DIA 24" | 30 | 0.89 | 0.0 | DRN-2 | 8051 | 7020 | |

| STORM SEWER SCHEDULE | | | | | | | | | |
|----------------------|---------------------|-----------|-------------|-----------|------------------------|-----------|----------------|--------------|--|
| PIPE NO. | PIPE DESCRIPTION | PIPE SIZE | LENGTH (FT) | SLOPE (%) | TRENCH BACKFILL (CUYD) | SHEET NO. | FROM STRUCTURE | TO STRUCTURE | |
| 8052 | STORM SEW CL A 2 18 | DIA 18" | 4 | 1.14 | 0.0 | DRN-2 | 8052 | 7018 | |
| 8053 | STORM SEW CL A 2 18 | DIA 18" | 15 | 3.39 | 0.0 | DRN-2 | 8053 | 7084 | |
| 8055 | STORM SEW CL A 2 18 | DIA 18" | 25 | 0.50 | 0.0 | DRN-2 | 8055 | 7027 | |
| 8056 | STORM SEW CL A 1 21 | DIA 21" | 69 | 0.50 | 0.0 | DRN-1 | 8056 | 8063 | |
| 8057 | STORM SEW CL A 2 21 | DIA 21" | 24 | 0.86 | 0.0 | DRN-2 | 8057 | 7010 | |
| 8059 | STORM SEW CL A 2 48 | DIA 48" | 23 | 0.15 | 0.0 | DRN-2 | 8059 | 8060 | |
| 8060 | STORM SEW CL A 2 48 | DIA 48" | 9 | 0.15 | 16.6 | DRN-2 | 8060 | 7023 | |
| 8061 | STORM SEW CL A 1 21 | DIA 21" | 3 | 0.60 | 0.0 | DRN-1 | 8061 | 7028 | |
| 8062 | STORM SEW CL A 1 18 | DIA 18" | 24 | 3.21 | 0.0 | DRN-2 | 8062 | 7013 | |
| 8063 | STORM SEW CL A 1 21 | DIA 21" | 53 | 0.50 | 0.0 | DRN-1 | 8063 | 8061 | |
| 8064 | STORM SEW CL A 1 15 | DIA 15" | 4 | 1.14 | 0.0 | DRN-2 | 8064 | 7016 | |
| 8065 | STORM SEW CL A 2 24 | DIA 24" | 7 | 0.75 | 0.0 | DRN-3 | 8065 | 7085 | |
| 8100 | STORM SEW CL A 2 15 | DIA 15" | 181 | 0.50 | 0.0 | DRN-6 | 8100 | 8101 | |
| 8101 | STORM SEW CL A 2 24 | DIA 24" | 187 | 0.17 | 0.0 | DRN-6 | 8101 | 8102 | |
| 8102 | STORM SEW CL A 2 24 | DIA 24" | 20 | 0.17 | 9.4 | DRN-2 | 8102 | 8103 | |
| 8103 | STORM SEW CL A 2 24 | DIA 24" | 20 | 0.17 | 9.6 | DRN-2 | 8103 | 8104 | |
| 8104 | STORM SEW CL A 2 30 | DIA 30" | 27 | 0.15 | 21.1 | DRN-2 | 8104 | 7083 | |
| 8200 | STORM SEW CL A 2 15 | DIA 15" | 11 | 1.68 | 8.9 | DRN-6 | 8200 | 8101 | |
| 9000 | STORM SEW CL A 2 15 | DIA 15" | 51 | 1.01 | 16.9 | DRN-2 | 9000 | 7009 | |
| 9001 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 1.2 | DRN-2 | 9001 | 9000 | |
| 9002 | STORM SEW CL A 1 15 | DIA 15" | 46 | 1.02 | 11.8 | DRN-1 | 9002 | 7011 | |
| 9003 | STORM SEW CL A 1 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-1 | 9003 | 9002 | |
| 9004 | STORM SEW CL A 2 15 | DIA 15" | 46 | 1.01 | 12.1 | DRN-1 | 9004 | 7012 | |
| 9005 | STORM SEW CL A 1 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-1 | 9005 | 9004 | |
| 9006 | STORM SEW CL A 2 15 | DIA 15" | 84 | 1.00 | 26.5 | DRN-2 | 9006 | 9006 | |
| 9007 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9007 | 9006 | |
| 9008 | STORM SEW CL A 2 15 | DIA 15" | 16 | 1.00 | 6.0 | DRN-2 | 9008 | 9008 | |
| 9009 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9009 | 9008 | |
| 9010 | STORM SEW CL A 2 18 | DIA 18" | 46 | 1.02 | 21.1 | DRN-2 | 9010 | 7013 | |
| 9011 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9011 | 9010 | |
| 9012 | STORM SEW CL A 2 15 | DIA 15" | 48 | 1.01 | 13.9 | DRN-2 | 9012 | 7014 | |
| 9013 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9013 | 9012 | |
| 9014 | STORM SEW CL A 2 15 | DIA 15" | 53 | 1.01 | 15.0 | DRN-2 | 9014 | 7015 | |
| 9015 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9015 | 9014 | |
| 9016 | STORM SEW CL A 2 15 | DIA 15" | 66 | 1.01 | 27.9 | DRN-2 | 9016 | 7016 | |
| 9017 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 2.4 | DRN-2 | 9017 | 9016 | |
| 9018 | STORM SEW CL A 2 15 | DIA 15" | 32 | 1.11 | 8.7 | DRN-2 | 9018 | 7020 | |
| 9019 | STORM SEW CL A 2 15 | DIA 15" | 10 | 0.29 | 2.8 | DRN-2 | 9019 | 9018 | |
| 9020 | STORM SEW CL A 2 15 | DIA 15" | 40 | 1.01 | 11.2 | DRN-2 | 9020 | 7021 | |
| 9021 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-2 | 9021 | 9020 | |
| 9022 | STORM SEW CL A 2 15 | DIA 15" | 37 | 1.01 | 12.2 | DRN-2 | 9022 | 7023 | |
| 9023 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-2 | 9023 | 9022 | |
| 9024 | STORM SEW CL A 2 15 | DIA 15" | 14 | 1.07 | 4.6 | DRN-2 | 9024 | 9026 | |
| 9025 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-2 | 9025 | 9024 | |
| 9026 | STORM SEW CL A 2 15 | DIA 15" | 28 | 1.38 | 10.3 | DRN-2 | 9026 | 7025 | |
| 9027 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-2 | 9027 | 9026 | |
| 9028 | STORM SEW CL A 2 15 | DIA 15" | 28 | 1.36 | 21.1 | DRN-2 | 9028 | 7026 | |
| 9029 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-2 | 9029 | 9028 | |
| 9030 | STORM SEW CL A 2 15 | DIA 15" | 246 | 1.00 | 96.4 | DRN-2 | 9030 | 9028 | |
| 9031 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-2 | 9031 | 9030 | |
| 9032 | STORM SEW CL A 2 15 | DIA 15" | 31 | 1.05 | 10.2 | DRN-3 | 9032 | 7030 | |
| 9033 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-3 | 9033 | 9032 | |
| 9034 | STORM SEW CL A 2 15 | DIA 15" | 31 | 1.05 | 9.8 | DRN-3 | 9034 | 7031 | |
| 9035 | STORM SEW CL A 2 15 | DIA 15" | 3 | 1.00 | 0.8 | DRN-3 | 9035 | 9034 | |
| 9036 | STORM SEW CL A 1 18 | DIA 18" | 56 | 2.25 | 20.2 | DRN-3 | 9036 | 7033 | |
| 9037 | STORM SEW CL A 1 15 | DIA 15" | 3 | 0.50 | 0.8 | DRN-3 | 9037 | 9036 | |
| 9038 | STORM SEW CL A 1 18 | DIA 18" | 246 | 1.00 | 79.8 | DRN-3 | 9038 | 9036 | |
| 9039 | STORM SEW CL A 2 15 | DIA | | | | | | | |

| STORM SEWER SCHEDULE | | | | | | | | |
|----------------------|---------------------|-----------|-------------|-----------|------------------------|-----------|----------------|--------------|
| PIPE NO. | PIPE DESCRIPTION | PIPE SIZE | LENGTH (FT) | SLOPE (%) | TRENCH BACKFILL (CUYD) | SHEET NO. | FROM STRUCTURE | TO STRUCTURE |
| 9103 | STORM SEW CL A 2 15 | DIA 15" | 2 | 1.21 | 1.0 | DRN-4 | 9103 | 7054 |
| 9104 | STORM SEW CL A 2 15 | DIA 15" | 50 | 0.92 | 17.0 | DRN-4 | 9104 | 9103 |
| 9105 | STORM SEW CL A 2 15 | DIA 15" | 42 | 1.10 | 11.5 | DRN-4 | 9105 | 9104 |
| 9106 | STORM SEW CL A 2 15 | DIA 15" | 18 | 1.00 | 4.5 | DRN-4 | 9106 | 9103 |
| 9107 | STORM SEW CL A 1 15 | DIA 15" | 2 | 1.30 | 0.4 | DRN-4 | 9107 | 7055 |
| 9108 | STORM SEW CL A 1 15 | DIA 15" | 3 | 1.00 | 0.9 | DRN-4 | 9108 | 7056 |
| 9110 | STORM SEW CL A 2 15 | DIA 15" | 21 | 1.00 | 7.1 | DRN-4 | 9110 | 9135 |
| 9111 | STORM SEW CL A 2 15 | DIA 15" | 131 | 1.85 | 42.9 | DRN-4 | 9111 | 9110 |
| 9112 | STORM SEW CL A 2 15 | DIA 15" | 96 | 2.86 | 31.0 | DRN-4 | 9112 | 9111 |
| 9113 | STORM SEW CL A 2 15 | DIA 15" | 146 | 2.75 | 48.2 | DRN-5 | 9113 | 9112 |
| 9114 | STORM SEW CL A 2 12 | DIA 12" | 17 | 1.00 | 4.3 | DRN-5 | 9114 | 9113 |
| 9115 | STORM SEW CL A 1 12 | DIA 12" | 17 | 1.00 | 4.3 | DRN-4 | 9115 | 9111 |
| 9116 | STORM SEW CL A 2 12 | DIA 12" | 16 | 0.94 | 4.3 | DRN-4 | 9116 | 9110 |
| 9117 | STORM SEW CL A 1 12 | DIA 12" | 16 | 1.35 | 3.6 | DRN-4 | 9117 | 9135 |
| 9118 | STORM SEW CL A 1 12 | DIA 12" | 6 | 28.54 | 0.8 | DRN-4 | 9118 | 7059 |
| 9119 | STORM SEWER SPEC 8 | DIA 8" | 4 | 21.23 | 0.4 | DRN-4 | 9119 | 7060 |
| 9120 | STORM SEW CL A 1 12 | DIA 12" | 4 | 53.23 | 0.4 | DRN-4 | 9120 | 7061 |
| 9121 | STORM SEW CL A 2 15 | DIA 15" | 3 | 0.83 | 2.0 | DRN-4 | 9121 | 7062 |
| 9122 | STORM SEW CL A 2 15 | DIA 15" | 112 | 1.00 | 40.4 | DRN-4 | 9122 | 9121 |
| 9123 | STORM SEW CL A 2 15 | DIA 15" | 2 | 3.49 | 0.5 | DRN-4 | 9123 | 7064 |
| 9124 | STORM SEW CL A 2 15 | DIA 15" | 12 | 1.07 | 3.3 | DRN-4 | 9124 | 9134 |
| 9125 | STORM SEW CL A 2 15 | DIA 15" | 3 | 0.76 | 0.7 | DRN-4 | 9125 | 7065 |
| 9126 | STORM SEW CL A 2 15 | DIA 15" | 3 | 0.84 | 0.8 | DRN-4 | 9126 | 7066 |
| 9127 | STORM SEW CL A 2 18 | DIA 18" | 3 | 1.76 | 0.8 | DRN-3 | 9127 | 7067 |
| 9128 | STORM SEW CL A 2 18 | DIA 18" | 137 | 1.00 | 46.0 | DRN-3 | 9128 | 9127 |
| 9129 | STORM SEW CL A 2 15 | DIA 15" | 88 | 1.00 | 28.4 | DRN-3 | 9129 | 9132 |
| 9130 | STORM SEW CL A 2 15 | DIA 15" | 199 | 1.00 | 58.1 | DRN-3 | 9130 | 9129 |
| 9131 | STORM SEW CL A 2 12 | DIA 12" | 8 | 3.37 | 2.2 | DRN-4 | 9131 | 9123 |
| 9132 | STORM SEW CL A 2 15 | DIA 15" | 105 | 1.00 | 31.2 | DRN-3 | 9132 | 9128 |
| 9134 | STORM SEW CL A 2 15 | DIA 15" | 11 | 1.10 | 3.1 | DRN-4 | 9134 | 9123 |
| 9135 | STORM SEW CL A 2 15 | DIA 15" | 44 | 1.00 | 16.2 | DRN-4 | 9135 | 7057 |
| 9150 | STORM SEW CL A 2 15 | DIA 15" | 3 | 0.82 | 1.0 | DRN-5 | 9150 | 7080 |
| 9151 | STORM SEW CL A 2 24 | DIA 24" | 170 | 0.17 | 256.3 | DRN-5 | 9151 | 100 |
| 9152 | STORM SEW CL A 2 21 | DIA 21" | 246 | 0.26 | 262.1 | DRN-4 | 9152 | 9151 |
| 9153 | STORM SEW CL A 2 15 | DIA 15" | 196 | 0.25 | 61.7 | DRN-4 | 9153 | 9152 |
| 9154 | STORM SEW CL A 1 15 | DIA 15" | 44 | 0.25 | 5.8 | DRN-4 | 9154 | 9153 |
| 9155 | STORM SEW CL A 1 12 | DIA 12" | 4 | 0.44 | 0.4 | DRN-4 | 9155 | 9154 |
| 9156 | STORM SEW CL A 1 12 | DIA 12" | 20 | 0.44 | 2.8 | DRN-4 | 9156 | 9154 |
| 9158 | STORM SEW CL A 1 15 | DIA 15" | 5 | 1.11 | 1.3 | DRN-5 | 9158 | 7081 |
| 9159 | STORM SEW CL A 1 15 | DIA 15" | 4 | 1.13 | 1.1 | DRN-5 | 9159 | 7086 |
| 9160 | STORM SEW CL A 1 12 | DIA 12" | 2 | 1.00 | 0.7 | DRN-4 | 9210 | 9110 |
| 9161 | STORM SEW CL A 1 12 | DIA 12" | 2 | 1.00 | 0.9 | DRN-4 | 9223 | 9123 |
| 9162 | STORM SEW CL A 1 12 | DIA 12" | 2 | 1.39 | 0.9 | DRN-4 | 9263 | 7063 |
| 9163 | STORM SEW CL A 1 12 | DIA 12" | 4 | 1.00 | 1.0 | DRN-5 | 9286 | 9159 |
| 9200 | STORM SEW CL A 2 12 | DIA 12" | 6 | 0.52 | 1.5 | DRN-2 | 9200 | 7026 |
| 9201 | STORM SEW CL A 2 12 | DIA 12" | 3 | 0.65 | 0.8 | DRN-2 | 9201 | 7025 |
| 9202 | STORM SEW CL A 2 12 | DIA 12" | 7 | 0.44 | 1.7 | DRN-2 | 9202 | 9201 |
| 9203 | STORM SEW CL A 2 12 | DIA 12" | 7 | 0.44 | 1.7 | DRN-2 | 9203 | 9201 |
| 9204 | STORM SEW CL A 1 12 | DIA 12" | 2 | 1.00 | 1.7 | DRN-4 | 9204 | 9104 |
| 9205 | STORM SEW CL A 1 12 | DIA 12" | 35 | 1.00 | 12.9 | DRN-5 | 9205 | 9150 |
| 9207 | STORM SEW CL A 1 12 | DIA 12" | 2 | 2.00 | 1.8 | DRN-4 | 9207 | 9107 |
| 9208 | STORM SEW CL A 1 12 | DIA 12" | 73 | 1.00 | 30.0 | DRN-4 | 9208 | 9207 |

ES = EXISTING STRUCTURE
EP = EXISTING PIPE

TEMPORARY DRAINAGE STRUCTURE SCHEDULES - SEE SHEET MOT-PA-5 AND MOT-PA-11 FOR PLAN

| PIPE UNDERDRAINS, TYPE 2, 4" | | | | | | | | | | |
|------------------------------|-------------|---------------|-----------|-------------|-----------|---------|-----------|---------|-------------|------|
| PIPE NO. | DRAWING NO. | ALIGNMENT | FROM STA. | FROM OFFSET | FROM STR. | TO STA. | TO OFFSET | TO STR. | LENGTH (FT) | |
| PUD-1 | DRN-01 | WB 190 | 1009+42 | 0.50 | - | 1011+37 | 0.50 | - | 195 | |
| PUD-2 | DRN-01 | WB 190 | 1005+41 | 0.50 | - | 1009+34 | 0.50 | - | 392 | |
| PUD-3 | DRN-01 | WB 190 | 1001+74 | 0.50 | - | 1005+36 | 0.50 | - | 362 | |
| PUD-4 | DRN-01 | WB 190 / WBCD | 1001+68 | 0.50 | - | 50+30 | 36.50 | - | 406 | |
| PUD-5 | DRN-02 | WB CD | 50+24 | 36.50 | - | 46+64 | 39.86 | - | 361 | |
| PUD-6 | DRN-02 | RAMP D | 916+03 | 0.50 | - | 920+74 | 0.50 | - | 471 | |
| PUD-7 | DRN-02 | RAMP D | 912+48 | 0.50 | - | 915+97 | 0.50 | - | 349 | |
| PUD-8 | DRN-02 | WB CD | 38+31 | 36.50 | - | 35+27 | 36.50 | 7019 | 304 | |
| PUD-9 | DRN-02 | WB CD | 30+06 | 36.50 | - | 31+48 | 40.50 | 7021 | 142 | |
| PUD-10 | DRN-02 | WB CD | 20+88 | 24.50 | - | 22+73 | 30.23 | 7084 | 185 | |
| PUD-11 | DRN-03 | WB CD | 18+38 | 24.50 | - | 20+83 | 30.23 | 7030 | 245 | |
| PUD-12 | DRN-03 | WB CD | 16+11 | 24.50 | - | 18+33 | 30.23 | 7031 | 222 | |
| PUD-13 | DRN-03 | RAMP C | 700+03 | 0.50 | - | 703+73 | 10.80 | 7033 | 372 | |
| PUD-14 | DRN-03 | WB CD | 8+20 | 24.50 | - | 12+09 | 24.50 | - | 391 | |
| PUD-15 | DRN-03 | WB CD | 6+41 | 24.50 | - | 8+12 | 32.00 | 9042 | 173 | |
| PUD-16 | DRN-03 | WB CD | 3+43 | 24.50 | - | 6+49 | 34.67 | 9044 | 308 | |
| | | | | | | | | | TOTAL | 4878 |

| PIPE UNDERDRAINS, FABRIC LINED TRENCH 6" | | | | | | | | | | |
|--|-------------|-----------|-----------|-------------|-----------|---------|-----------|---------|-------------|-----|
| PIPE NO. | DRAWING NO. | ALIGNMENT | FROM STA. | FROM OFFSET | FROM STR. | TO STA. | TO OFFSET | TO STR. | LENGTH (FT) | |
| PUD-21 | DRN-01 | WB 190 | 2996+48 | -79.45 | - | 2993+98 | -74.13 | - | 246 | |
| PUD-23 | DRN-01 | WB 190 | 2998+28 | -82.52 | - | 2996+58 | -79.64 | - | 167 | |
| PUD-25 | DRN-01 | WB 190 | 3002+02 | -83.50 | - | 2998+38 | -82.68 | - | 162 | |
| | | | | | | | | | TOTAL | 575 |

| PIPE UNDERDRAINS 4" (SPECIAL) | | | | | | | | | | |
|-------------------------------|-------------|-----------|-----------|-------------|-----------|---------|-----------|---------|-------------|-----|
| PIPE NO. | DRAWING NO. | ALIGNMENT | FROM STA. | FROM OFFSET | FROM STR. | TO STA. | TO OFFSET | TO STR. | LENGTH (FT) | |
| PUD-1A | DRN-01 | WB 190 | 1011+40 | 3.47 | - | 1011+40 | 18.12 | HWL-1 | 15 | |
| PUD-2A | DRN-01 | WB 190 | 1009+37 | 3.52 | - | 1009+37 | 13.69 | HWL-2 | 14 | |
| PUD-3A | DRN-01 | WB 190 | 1005+39 | 3.53 | - | 1005+39 | 14.85 | HWL-3 | 15 | |
| PUD-4A | DRN-01 | WB CD | 50+27 | 39.48 | - | 50+27 | 59.41 | HWL-4 | 22 | |
| PUD-5A | DRN-02 | WB CD | 46+61 | 42.92 | - | 46+61 | 65.19 | HWL-5 | 25 | |
| PUD-6A | DRN-02 | WB CD | 46+60 | 42.93 | - | 46+60 | 65.19 | HWL-5 | 25 | |
| PUD-7A | DRN-02 | RAMP D | 916+00 | 3.42 | - | 916+01 | 29.32 | HWL-7 | 29 | |
| PUD-14A | DRN-03 | WB CD | 12+12 | 27.65 | - | 12+11 | 40.48 | HWL-14 | 15 | |
| | | | | | | | | | TOTAL | 160 |

FOR CONCRETE HEADWALL FOR PIPE DRAINS SCHEDULE, SEE SHEET DRN-15

| TEMPORARY STORM SEWER SCHEDULE | | | | | | | | | |
|--------------------------------|---------------------------|-----------|-------------|-----------|------------------------|-----------|----------------|--------------|--|
| PIPE NO. | PIPE DESCRIPTION | PIPE SIZE | LENGTH (FT) | SLOPE (%) | TRENCH BACKFILL (CUYD) | SHEET NO. | FROM STRUCTURE | TO STRUCTURE | |
| TP1 | TEMPORARY STORM SEWER 12" | DIA 12" | 40 | 0.5 | 0 | MOT-PA-5 | TS1 | TS1H | |
| TP2 | TEMPORARY STORM SEWER 12" | DIA 12" | 95 | 0.5 | 0 | MOT-PA-5 | TS2 | TS3 | |
| TP3 | TEMPORARY STORM SEWER 12" | DIA 12" | 95 | 0.5 | 0 | MOT-PA-5 | TS3 | TS5 | |
| TP4 | TEMPORARY STORM SEWER 12" | DIA 12" | 95 | 0.5 | 0 | MOT-PA-5 | TS4 | TS5 | |
| TP5 | TEMPORARY STORM SEWER 15" | DIA 15" | 130 | 0.5 | 0 | MOT-PA-5 | TS5 | TS5H | |
| TP6 | TEMPORARY STORM SEWER 12" | DIA 12" | 39 | 0.5 | 0 | MOT-PA-5 | TS6 | TS2 | |
| TP7 | TEMPORARY STORM SEWER 12" | DIA 12" | 9 | 0.5 | 0 | MOT-PA-11 | TS7 | ** | |
| TP8 | TEMPORARY STORM SEWER 12" | DIA 12" | 13 | 0.5 | 0 | MOT-PA-11 | TS8 | ** | |
| TP9 | TEMPORARY STORM SEWER 12" | DIA 12" | 12 | 0.5 | 0 | MOT-PA-11 | TS9 | ** | |
| TP10 | TEMPORARY STORM SEWER 12" | DIA 12" | 8 | 0.5 | 0 | MOT-PA-11 | TS10 | ** | |

| TEMPORARY DRAINAGE STRUCTURE SCHEDULE | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------|-------------------|---------|--------|------|------------------------|---------|--------|--------|--------|---|------------|-----------|-----------|-----------|-------------------------|-------------------------|-----------------|
| STRUCTURE NO. | STRUCTURE DESCRIPTION | CENTERLINE | | | | PROPOSED RIM ELEVATION | INVERTS | | | | PIPE CONNECTIONS (Pipe No. - Pipe Size) | | | | SHEET NO. | STRUCTURE TOP | DESCRIPTION | |
| | | ALIGNMENT | STATION | OFFSET | DIR. | | NORTH | SOUTH | EAST | WEST | NORTH | SOUTH | EAST | WEST | | | | |
| TS1 | TEMPORARY INLET | TEMPORARY RAMP CC | 4+50 | 8.00 | RT | 638.06 | 636.45 | -- | -- | -- | TP1 - 12" | -- | -- | MOT-PA-5 | -- | TYPE 20 FRAME AND GRATE | | |
| TS2 | TEMPORARY CATCH BASIN | TEMPORARY RAMP CC | 6+50 | 11.60 | RT | 634.62 | 632.75 | -- | 632.72 | -- | TP6 - 12" | -- | TP2 - 12" | MOT-PA-5 | FLAT | TYPE 8 GRATE | | |
| TS3 | TEMPORARY CATCH BASIN | TEMPORARY RAMP CC | 7+50 | 12.00 | RT | 634.88 | -- | -- | 632.23 | 632.25 | -- | -- | TP3 - 12" | MOT-PA-5 | FLAT | TYPE 8 GRATE | | |
| TS4 | TEMPORARY INLET | TEMPORARY RAMP CC | 9+50 | 9.84 | RT | 635.74 | 633.23 | -- | -- | -- | TP4 - 12" | -- | -- | MOT-PA-5 | -- | TYPE 8 GRATE | | |
| TS5 | TEMPORARY CATCH BASIN | TEMPORARY RAMP CC | 8+50 | 11.63 | RT | 635.31 | 631.75 | 632.75 | -- | 631.75 | TP3 - 12" | TP4 - 12" | -- | TP5 - 15" | MOT-PA-5 | FLAT | TYPE 8 GRATE | |
| TS6 | TEMPORARY INLET | TEMPORARY RAMP CC | 6+50 | 27.00 | LT | 636.42 | -- | 632.95 | -- | -- | -- | TP6 - 12" | -- | -- | MOT-PA-5 | -- | TYPE 8 GRATE | |
| TS1H | TEMPORARY END SECTION | TEMPORARY RAMP CC | 4+50 | 32.00 | LT | -- | -- | 636.25 | -- | -- | -- | TP1 - 12" | -- | -- | MOT-PA-5 | -- | 12" END SECTION | |
| TS5H | TEMPORARY END SECTION | TEMPORARY RAMP CC | 8+50 | 132.72 | RT | -- | -- | -- | 631.5 | -- | -- | -- | TP5 - 15" | -- | -- | MOT-PA-5 | -- | 15" END SECTION |
| TS7 | TEMPORARY CATCH BASIN | HARLEM RAMP D | 103+79 | 11.91 | RT | 639.99 | * | 635.58 | -- | -- | * | TP7 - 12" | -- | -- | MOT-PA-11 | FLAT | TYPE 23 FRAME AND GRATE | |
| TS8 | TEMPORARY CATCH BASIN | HARLEM RAMP D | 105+51 | 11.52 | RT | 636.67 | * | 633.28 | -- | -- | * | TP8 - 12" | -- | -- | MOT-PA-11 | FLAT | TYPE 23 FRAME AND GRATE | |
| TS9 | TEMPORARY INLET | HARLEM RAMP D | 107+75 | 13.48 | RT | 638.85 | -- | 634.65 | -- | -- | -- | TP9 - 12" | -- | -- | MOT-PA-11 | -- | TYPE 23 FRAME AND GRATE | |
| TS10 | TEMPORARY INLET | HARLEM RAMP D | 109+85 | 13.75 | RT | 641.26 | -- | 637.67 | -- | -- | -- | TP10 - 12" | -- | -- | MOT-PA-11 | -- | TYPE 23 FRAME AND GRATE | |

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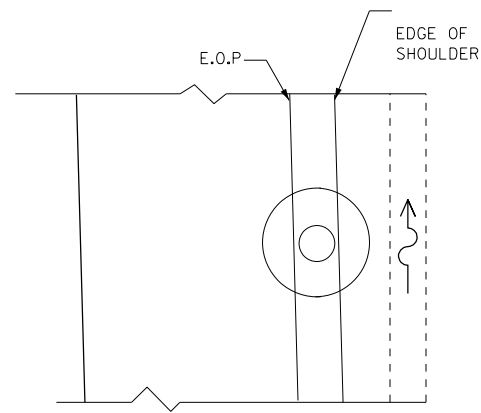
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|-----------------------|-----------------|-----------|
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| | DRAWN HDU | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

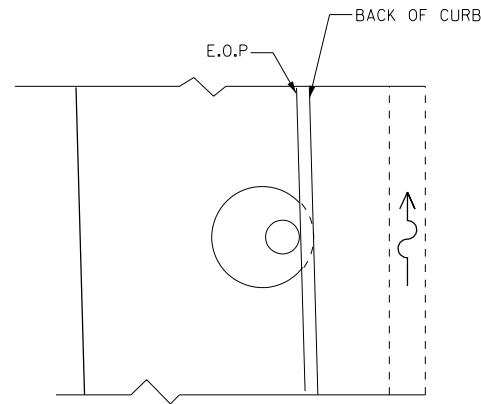
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PROPOSED DRAINAGE SCHEDULE

SCALE: SHEET NO. 17 OF 20 SHEETS STA. TO STA.

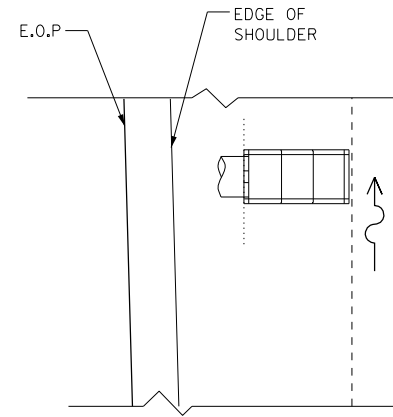
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|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. R.E. | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 250 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



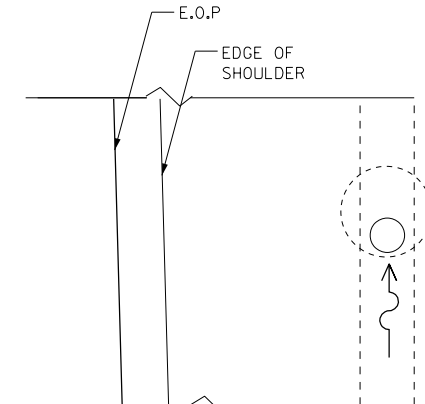
PLAN VIEW
MANHOLE IN THE SHOULDER



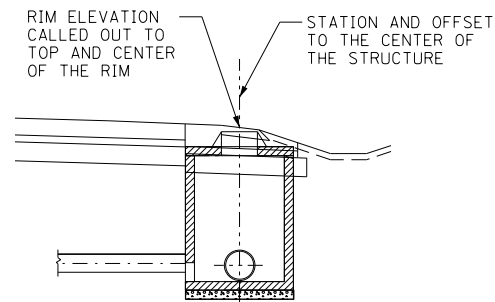
PLAN VIEW
INLET WITH CURB AND GUTTER



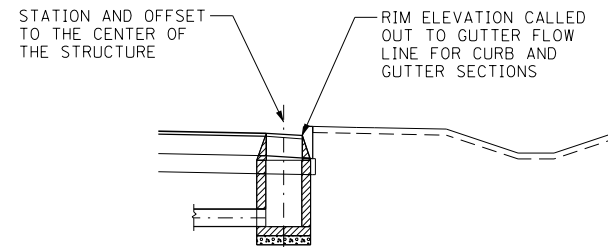
PLAN VIEW
CONCRETE END SECTION



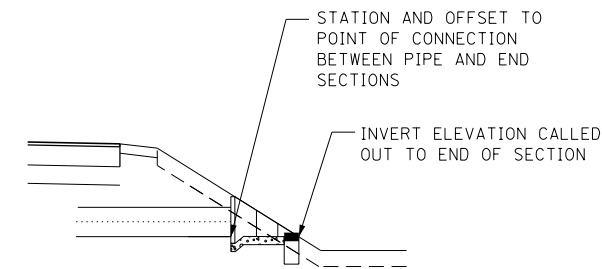
PLAN VIEW
INLET IN DITCH



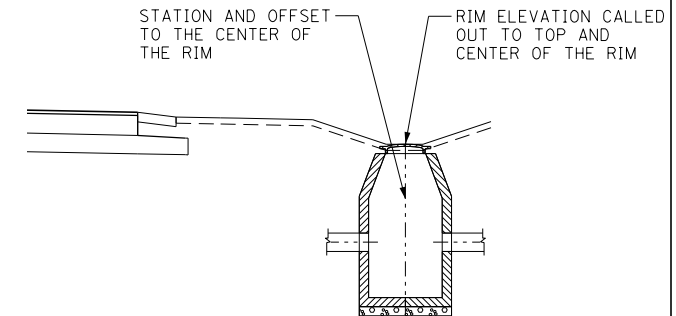
SECTION
MANHOLE IN SHOULDER OR DITCH
(CONE AND FLAT SLAB TOP SECTIONS)



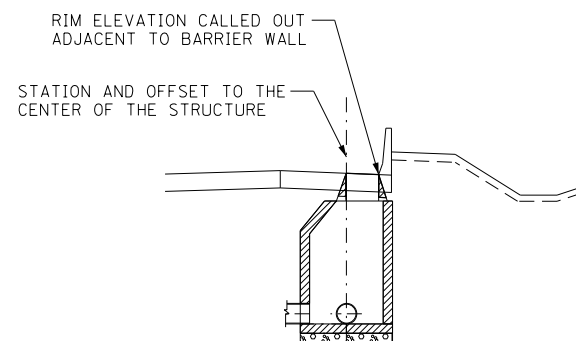
ELEVATION
INLET OR CATCH BASIN WITH CURB AND GUTTER



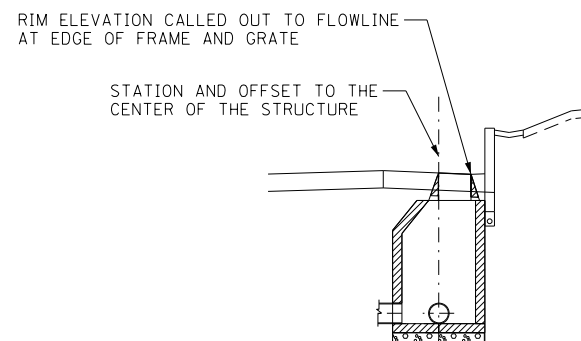
ELEVATION
CONCRETE END SECTION



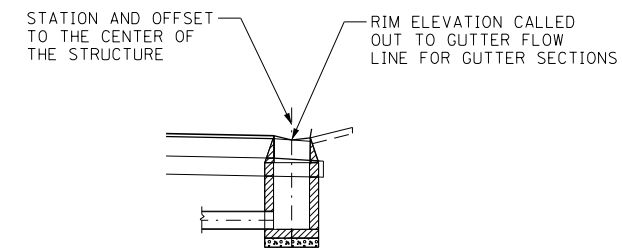
ELEVATION
INLET IN DITCH OR SWALE



SECTION
INLET OR CATCH BASIN IN SHOULDER WITH CONCRETE BARRIER WALL



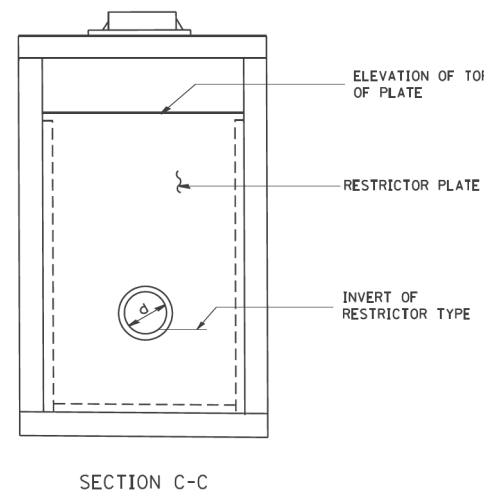
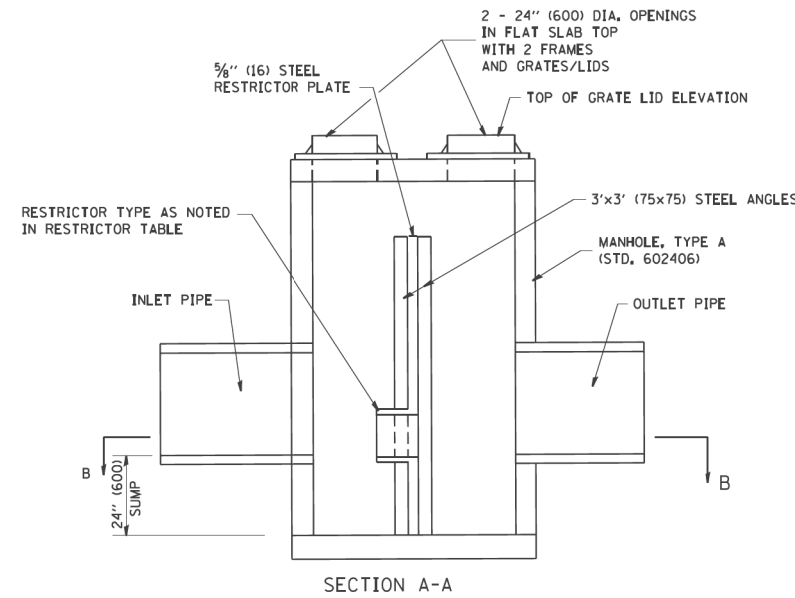
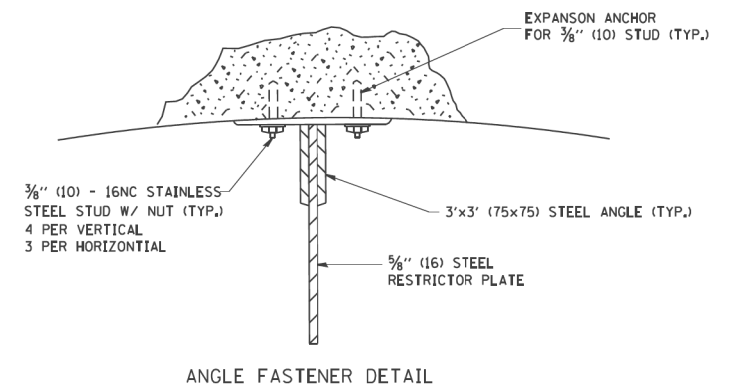
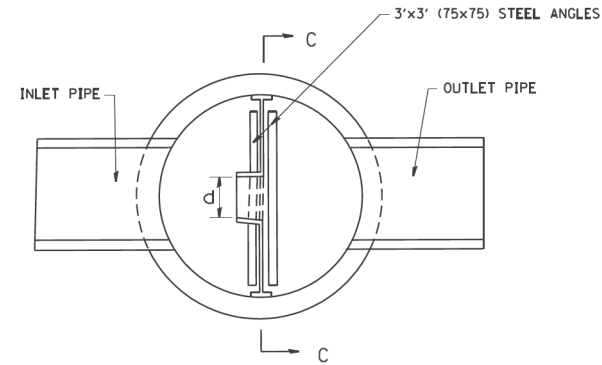
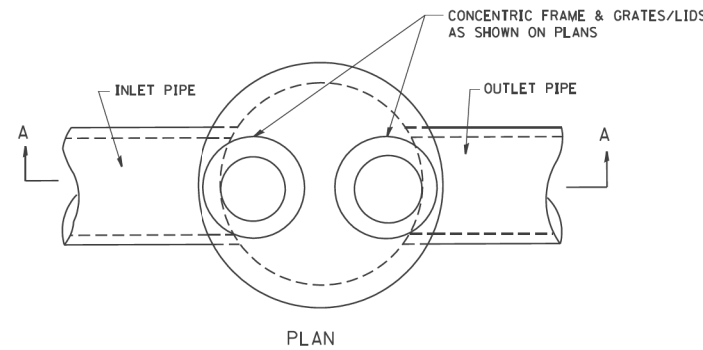
SECTION
INLET OR CATCH BASIN IN SHOULDER WITH SOLDIER PILE WALL



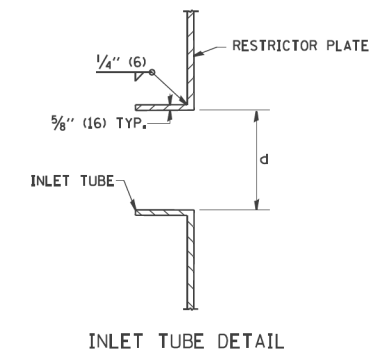
ELEVATION
INLET OR CATCH BASIN WITH GUTTER

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED HDU | REVISED - |
| | DRAWN HDU | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

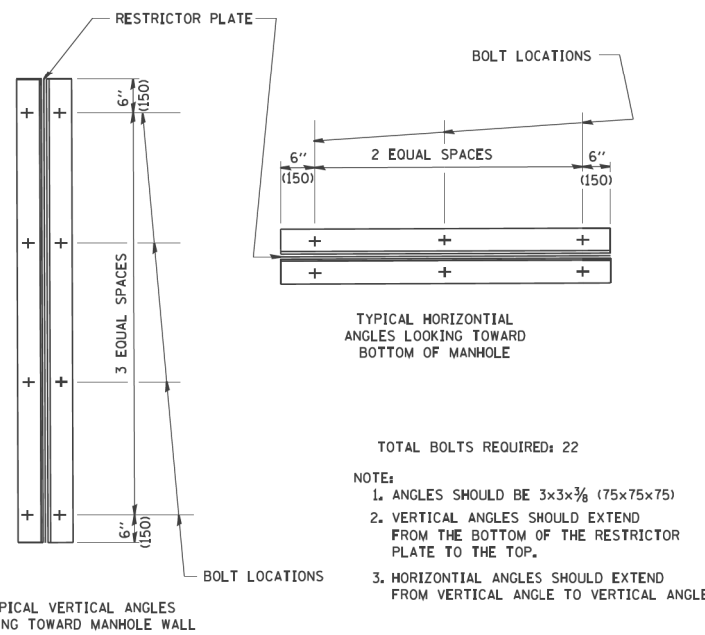
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 251 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 - ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 - BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



| STATION | MANHOLE DIAMETER | FRAME AND GRATE | RESTRICTOR TYPE | INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d) | INVERT OF RESTRICTOR TYPE | ELEVATION OF TOP OF PLATE OVERFLOW | STR |
|---------|------------------|-----------------|-----------------|--|---------------------------|------------------------------------|------|
| 1002+60 | 8 FT | 2 TY 1 CL | 2 | 24.0" | 624.50 | 631.00 | 8060 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

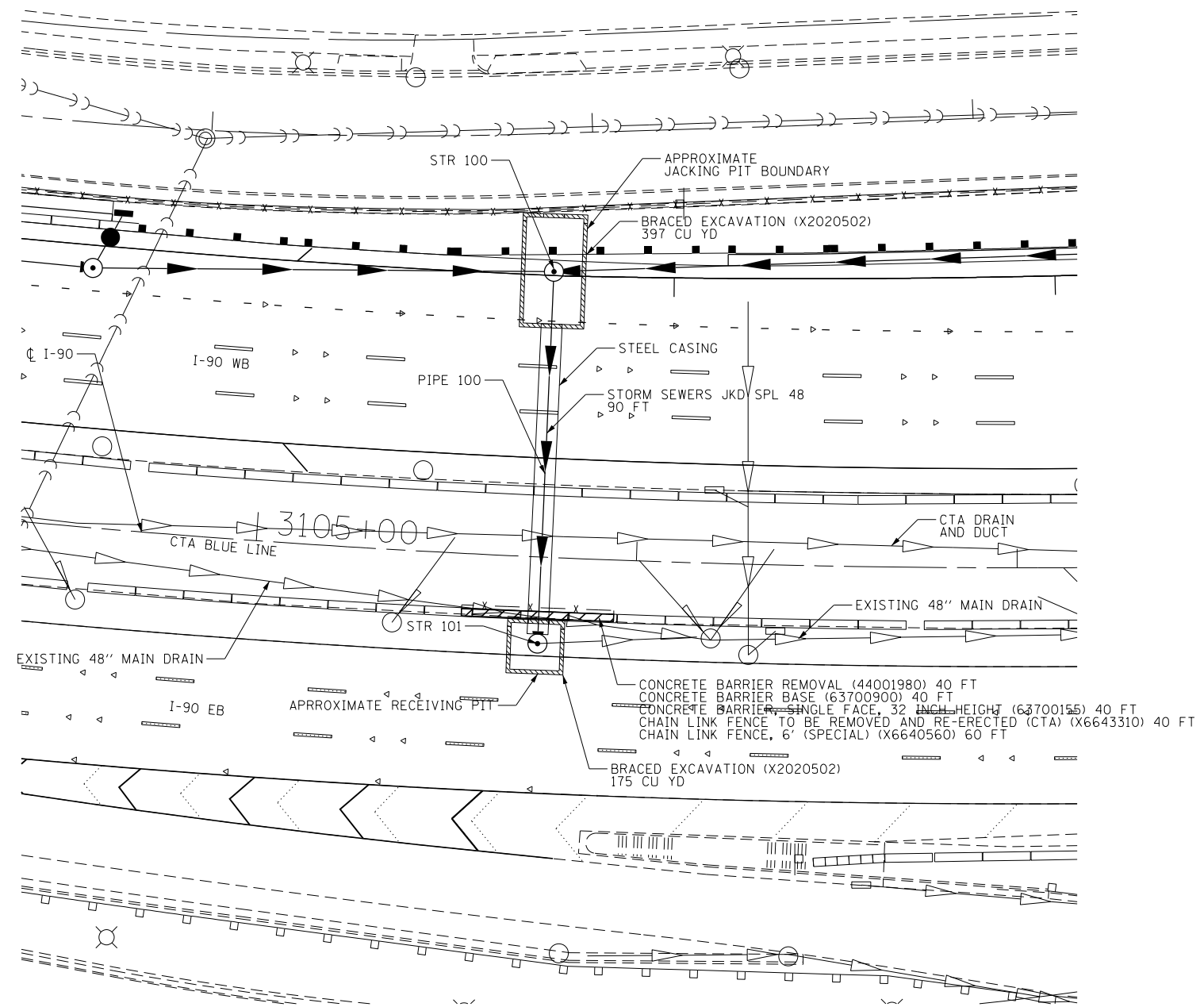


| RESTRICTOR TYPE | | | | | |
|-----------------------|-------------|---------------------|--------------------|--------------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| RE-ENTRANT TUBE | SHARP EDGED | SQUARE EDGED | RE-ENTRANT TUBE | SQUARE EDGED | ROUNDED |
| | | | | | |
| LENGTH: 1/2 TO 1 DIA. | | STREAM CLEARS SIDES | LENGTH: 2-1/2 DIA. | LENGTH: 2-1/2 DIA. | |
| C=.52 | C=.61 | C=.61 | C=.73 | C=.82 | C=.98 |

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

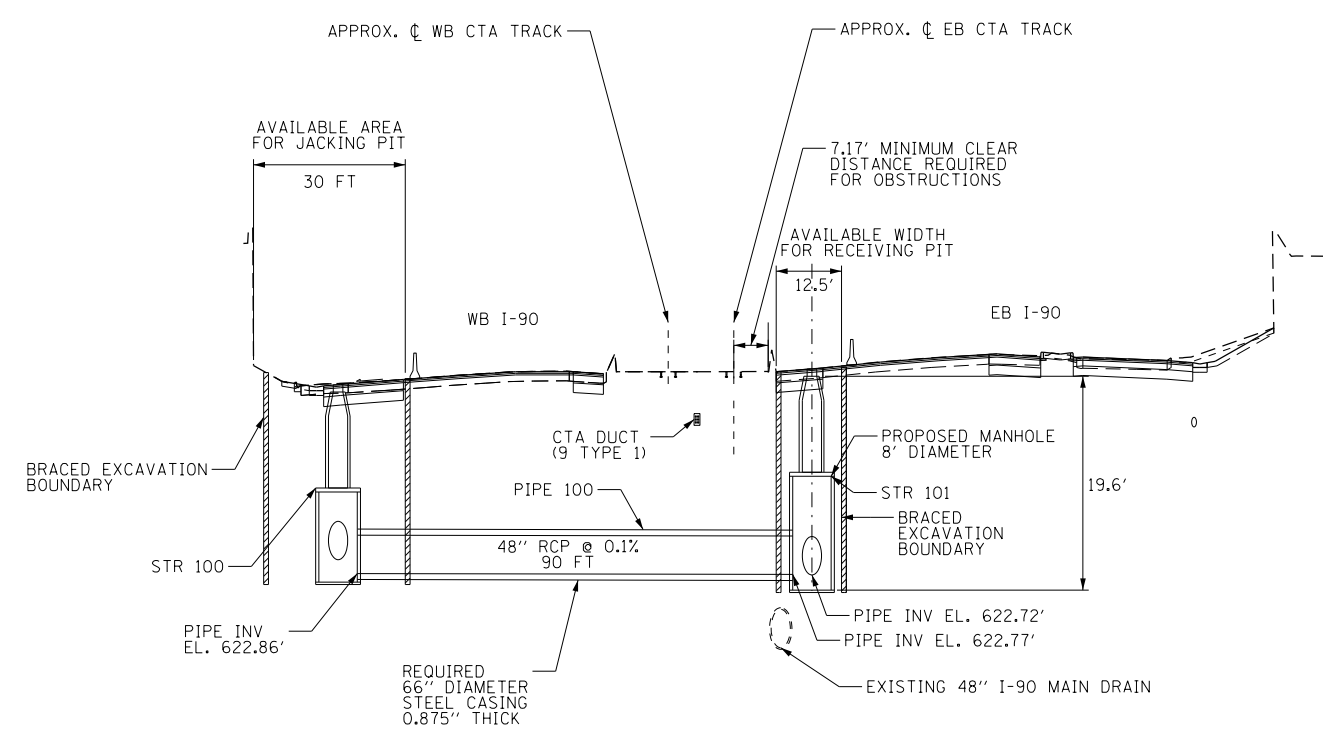
DRN-19



PLAN

PLAN NOTES:

- CHAIN LINK FENCE, 6" (SPECIAL) SHALL BE UTILIZED TO MAINTAIN ACCESS CONTROL TO THE CTA OPERATING AREA WHILE CTA BARRIER IS REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR CTA FLAGGING AND COORDINATION.



PIPE JACKING DETAIL
NOT TO SCALE

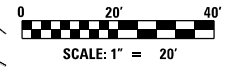
DETAIL NOTES:

- SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR WORK IN AND AROUND THE CTA OPERATING AREA.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DIMENSIONS AND ADJUST JACKING PIT AND BRACED EXCAVATION AS NECESSARY.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF BRACED EXCAVATION WITH CTA, INCLUDING TEMPORARY TRACK CLOSURES DURING EXCAVATION. BRACED EXCAVATION SHALL BE IN PLACE, AND ALL ABOVE GROUND OBSTRUCTIONS SHALL BE REMOVED, PRIOR TO RE-OPENING OF THE CTA TRACK FOR SERVICE. NO WORK WITHIN THE BRACED EXCAVATION WILL BE ALLOWED WHILE EB CTA (SOUTH) TRACK IS IN SERVICE.

| | | |
|-----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED HDU | REVISED - |
| DRAWN HDU | REVISED - | |
| PLOT SCALE = #SCALE# | CHECKED SH | REVISED - |
| PLOT DATE = 1-16-2018 | DATE 01/19/2018 | REVISED - |

INFIELD PROPOSED ELEVATIONS

| POINT | N | E | ELEVATION |
|-------|------------|------------|-----------|
| 1 | 1937482.54 | 1119146.80 | 627.01 |
| 2 | 1937496.35 | 1119132.77 | 626.52 |
| 3 | 1937499.52 | 1119113.34 | 626.03 |
| 4 | 1937490.90 | 1119095.64 | 625.53 |
| 5 | 1937473.64 | 1119086.17 | 625.04 |
| 6 | 1937453.69 | 1119085.67 | 624.55 |
| 7 | 1937451.49 | 1119085.68 | 628.50 |
| 8 | 1937463.51 | 1119153.17 | 631.50 |
| 9 | 1937466.34 | 1118991.06 | 628.88 |
| 10 | 1937521.96 | 1119003.39 | 629.24 |
| 11 | 1937568.57 | 1119041.33 | 629.62 |
| 12 | 1937592.93 | 1119099.00 | 630.02 |
| 13 | 1937583.66 | 1119169.10 | 630.47 |
| 14 | 1937482.10 | 1119166.88 | 631.16 |

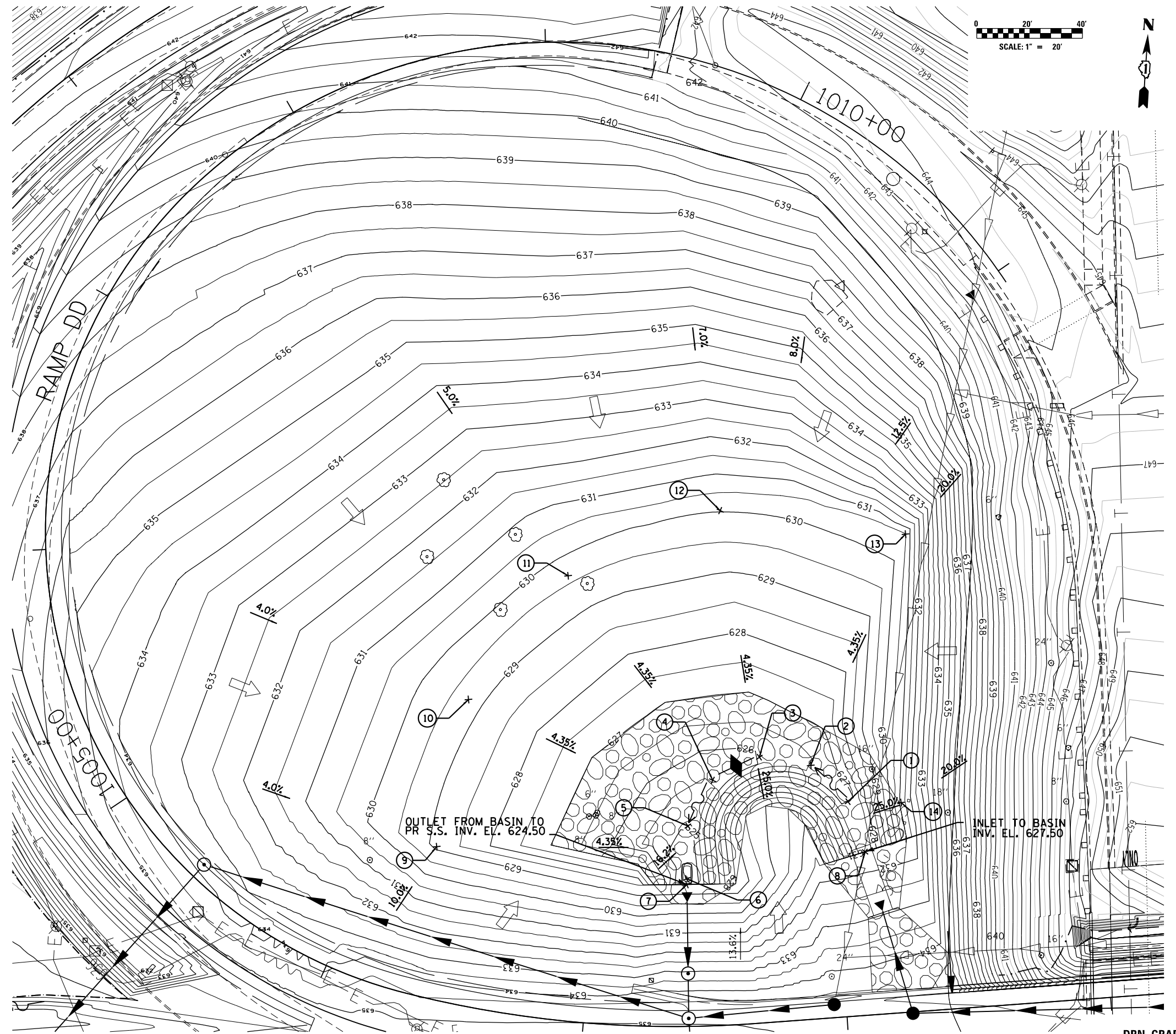


INFIELD GRADING PLAN LEGEND

- DIRECTION OF FLOW ARROW 1
- DIRECTION OF FLOW ARROW 2
- SEDIMENT BASIN
- PROPOSED DITCH CHECK
- PROPOSED DITCH FLOW
- EXISTING DITCH FLOW

NOTES:

1. SEE SHEET DRN- FOR DRAINAGE STRUCTURE TABLES.
2. BASIN TO BE PAID FOR AS EARTH EXCAVATION; TOPSOIL FURNISH AND PLACE, 6"; SEEDING, CLASS 4.



AEG Ltd.
3100 Dundee Road,
Suite 502, Northbrook,
IL 60062
847.753.8020 office
847.753.8023 fax

| | | |
|-----------------------------|-----------------|-------------|
| USER NAME = ssekulich | DESIGNED GS | REVISED - - |
| PLOT SCALE = 24.0000' / ft. | DRAWN GS | REVISED - |
| PLOT DATE = 1/16/2018 | CHECKED YO | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
RAMP DD INFIELD GRADING PLAN
BBB**

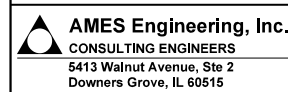
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------|--------|--------------|--------------------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 253 |
| ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 60Y39 |

| SIGNING REMOVAL-SCHEDULE OF QUANTITIES | | | | | | | | 72400200 | 72400310 | 72400320 | 72400330 | 73700100 | 73700200 |
|--|---------|--------|------------------------|--|-----------|--------|------------|-----------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|---|
| SIGN DESIGNATION | STATION | OFFSET | LOCATION | PANEL LEGEND DESCRIPTION | SIGN SIZE | | PANEL AREA | REMOVE SIGN PANEL ASSEMBLY TYPE B | REMOVE SIGN PANEL-TYPE 1 | REMOVE SIGN PANEL-TYPE 2 | REMOVE SIGN PANEL-TYPE 3 | REMOVE GROUND MOUNTED SIGN SUPPORT | REMOVE CONCRETE FOUNDATION GROUND MOUNT |
| | | | | | WIDTH | HEIGHT | | EACH | SO FT | SO FT | SO FT | EACH | EACH |
| WB-190-BS-01A(REM) | 2993+36 | LT | I 90 WB | HELP SERVICE PATROL STATE FARM | 10 | 6 | 60 | | | | 60 | 2 | 2 |
| WB-190-BS-01C(REM) | 2995+36 | LT | I 90 WB | WEST 90 TRAIL BLAZER | 2.5 | 2.5 | 15.25 | 1 | | | | 1 | |
| WB-190-BS-01E(REM) | 2997+36 | LT | I 90 WB | USE CAR PHONE TO REPORT ROAD INCIDENTS | 17 | 7 | 119 | | | | 119 | 2 | 2 |
| WB-190-BS-01G(REM) | 2999+86 | LT | I 90 WB | WELCOME TO ILLINOIS TOLLWAY | 14 | 10 | 140 | | | | 140 | 2 | 2 |
| WB-190-WP-02 (REM) | 3002+86 | LT | I 90 WB | EXIT 78 | 6.5 | 5 | 32.5 | | | | 32.5 | 1 | 1 |
| WB-190-TR-04(REM) | 1008+35 | RT | I 90 WB CD | EXIT 78 SOUTH WEST | 27 | 15.6 | 421.2 | | | | 421.2 | | |
| WB-190-BR-05(REM) | 3013+00 | | I 90 WB EB | ROCKFORD MILWAUKEE | 27 | 13 | 351 | | | | 351 | | |
| WB-190-BR-06(REM) | 3013+00 | | I 90 WB EB | INDIANA O'HARE | 27 | 15.5 | 418.5 | | | | 418.5 | | |
| WB-CD-BS-10 (REM) | 1000+61 | RT | I 90 WB CD | EAST RIVER RD | 12.5 | 3.5 | 43.75 | | | | 43.75 | | 2 |
| WB-CD-BS-11 (REM) | 50+65 | RT | I 90 WB CD | RIVER RD EXIT | 17 | 9 | 153 | | | | 153 | 2 | 2 |
| WB-190-TR-16 (REM) | 3022+13 | LT | I 90 WB | WEST NORTH | 27 | 13 | 351 | | | | 351 | | |
| WB-190-TR-17 (REM) | 3022+13 | LT | I 90 WB | SOUTHWEST EXIT | 27 | 15.5 | 418.5 | | | | 418.5 | | |
| WB-CD-TS-18 (REM) | 36+24 | RT | I 90 WB | MERGE | 4 | 4 | 16 | | | 16 | | 1 | |
| WB-190-TR-19 (REM) | 3032+44 | | I 90 WB | ROCKFORD MILWAUKEE | 27 | 13 | 351 | | | | 351 | | |
| WB-190-TR-20 (REM) | 3032+44 | | I 90 WB | INDIANA O'HARE | 27 | 15.5 | 418.5 | | | | 418.5 | | |
| WB-CRD-TS-21 (REM) | 907+90 | RT | CUMBERLAND AVE RAMP | STOP HERE ON RED | 2.0 | 2.5 | 5 | | 5 | | | 1 | |
| WB-CRD-TS-22 (REM) | 907+90 | LT | CUMBERLAND AVE RAMP | STOP HERE ON RED | 2 | 2.5 | 5 | | 5 | | | 1 | |
| WB-CD-WP-25 (REM) | 30+40 | RT | I 90 WB CD | EXIT 79 A | 9 | 5 | 45 | | | | 45 | 1 | 1 |
| WB-CRCC-BS-26 (REM) | 800+55 | LT | RAMP CC | WEST ROCKFORD | 16.5 | 8.5 | 140.25 | | | | 140.25 | | 2 |
| WB-CD-LP-27 (REM) | 29+39 | RT | I 90 WB CD | RAMP 25 | 3 | 4 | 12 | | | 12 | | | |
| WB-CD-BR-28 (REM) | 26+09 | | I 90 WB CD | CUMBERLAND AVE | 24.5 | 9.5 | 232.75 | | | | 232.75 | | |
| WB-CRD-WP-30 (REM) | 900+13 | | CUMBERLAND AVE RAMP | WEST O'HARE ROCKFORD | 18.5 | 13 | 240.5 | | | | 240.5 | | |
| WB-CRCC-WP-32 (REM) | 801+29 | LT | RAMP CC | RAMP METER AHEAD | 4 | 4 | 16 | | | 16 | | | |
| WB-CRCC-WP-33 (REM) | 805+37 | RT | RAMP CC | STOP HERE ON RED | 2 | 2.5 | 5 | | 5 | | | | |
| WB-CRCC-WP-34 (REM) | 805+40 | LT | RAMP CC | STOP HERE ON RED | 2 | 2.5 | 5 | | 5 | | | | |
| WB-CD-LP-WP-35 (REM) | 21+40 | RT | I 90 WB CD | ADDED LANE | 4 | 4 | 16 | | | 16 | | | |
| WB-CD-WP-36 (REM) | 19+45 | RT | I 90 WB CD | CHICAGO GATEWAY | | | | | | | | | |
| WB-CD-TS-38 (REM) | 16+80 | LT | I 90 WB CD | EXIT 79 B | 9 | 5 | 45 | | | | 45 | 1 | |
| WB-CRC-LP-39 (REM) | 704+51 | RT | RAMP C | RAMP 25 | 3 | 4 | 12 | | | 12 | | | |
| WB-190-TR-42 (REM) | 3050+85 | RT | I 90 WB | INDIANA O'HARE | 27 | 15.5 | 418.5 | | | | 418.5 | | |
| WB-CD-TR-43 (REM) | 3050+85 | RT | I 90 WB CD | S CUMBERLAND AVE | 25 | 11.2 | 280 | | | | 280 | | |
| WB-CD-TR-44 (REM) | 3050+85 | RT | I 90 WB CD | N CUMBERLAND AVE | 24.5 | 9.5 | 232.75 | | | | 232.75 | | |
| WB-CD-WP-45 (REM) | 8+90 | RT | I 90 WB CD | SPONSOR RIGGER | | | | | | | | | |
| WB-CD-WP-46 (REM) | 8+90 | RT | I 90 WB CD | CHICAGO GATEWAY | | | | | | | | | |
| WB-CD-B5-47 (REM) | 4+65 | RT | I 90 WB CD | EXIT 79B CUMBERLAND | 24.5 | 9.2 | 225.4 | | | | 225.4 | | 2 |
| WB-190-BS-48 (REM) | 3068+10 | LT | I 90 WB | O'HARE AIRPORT | 21.5 | 8.5 | 182.75 | | | | 182.75 | | |
| WB-190-WP-053 (REM) | 3059+00 | LT | I 90 WB | EXIT 79 A | 12 | 11 | 132 | | | | 132 | 2 | 2 |
| WB-CAR-LP-054 (REM) | 112+15 | LT | CANFIELD AVE EXIT RAMP | DO NOT ENTER | 3 | 3 | 9 | | 9 | | | | |
| WB-CAR-LP-055 (REM) | 112+08 | LT | CANFIELD AVE EXIT RAMP | STOP | 3 | 3 | 9 | | 9 | | | | |
| WB-CAR-LP-056 (REM) | 112+15 | LT | CANFIELD AVE EXIT RAMP | CROSS TRAFFIC | 3 | 1.5 | 4.5 | | 4.5 | | | | |
| WB-CAR-TS-057 (REM) | 111+87 | RT | CANFIELD AVE EXIT RAMP | DO NOT ENTER | 3 | 3 | 9 | | 9 | | | 1 | |
| WB-CAR-TS-058 (REM) | 112+10 | RT | CANFIELD AVE EXIT RAMP | STOP | 3 | 3 | 9 | | 9 | | | 1 | |
| WB-CAR-TS-059 (REM) | 111+85 | RT | CANFIELD AVE EXIT RAMP | CROSS TRAFFIC | 3 | 1.5 | 4.5 | | 4.5 | | | | |
| WB-CAR-TS-060 (REM) | 110+58 | RT | CANFIELD AVE EXIT RAMP | WRONG WAY | 3 | 2 | 6 | | 6 | | | 1 | |
| WB-CAR-TS-061 (REM) | 110+58 | LT | CANFIELD AVE EXIT RAMP | WRONG WAY | 3 | 2 | 6 | | 6 | | | 1 | |
| WB-CAR-LP-062 (REM) | 107+88 | RT | CANFIELD AVE EXIT RAMP | ADVANCED TRAFFIC CONTROL | 4 | 4 | 16 | | | 16 | | LP | |
| WB-CAR-TS-063 (REM) | 107+88 | LT | CANFIELD AVE EXIT RAMP | ADVANCED TRAFFIC CONTROL | 4 | 4 | 16 | | | 16 | | 1 | |

SIGNING PAY ITEM NOTES

- OVERHEAD SIGN STRUCTURE REMOVALS; BRIDGE MOUNTED, DMS, SPAN, CANTILEVER AND CONCRETE OVERHEAD FOUNDATIONS ARE SHOWN IN THE CIVIL REMOVAL PLANS



| | | |
|----------------------|-----------------|-----------|
| USER NAME = #USER* | DESIGNED AS | REVISED - |
| PLOT SCALE = #SCALE* | CHECKED AS | REVISED - |
| PLOT DATE = #DATE* | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM CUMBERLAND AVE TO HARLEM AVE
SIGNING SCHEDULES

SCALE: NTS SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 254 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SGN SCH-01

| SIGNING REMOVAL-SCHEDULE OF QUANTITIES | | | | | | | 72400200 | 72400310 | 72400320 | 72400330 | 73700100 | 73700200 | |
|--|---------|--------|------------------------|--------------------------|-----------|-------|------------|-----------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|---|
| SIGN DESIGNATION | STATION | OFFSET | LOCATION | PANEL LEGEND DESCRIPTION | SIGN SIZE | | PANEL AREA | REMOVE SIGN PANEL ASSEMBLY TYPE B | REMOVE SIGN PANEL-TYPE 1 | REMOVE SIGN PANEL-TYPE 2 | REMOVE SIGN PANEL-TYPE 3 | REMOVE GROUND MOUNTED SIGN SUPPORT | REMOVE CONCRETE FOUNDATION GROUND MOUNT |
| | | | | | EACH | SQ FT | | SQ FT | SQ FT | EACH | EACH | | |
| WB-CAR-LP-064 (REM) | 105+52 | RT | CANFIELD AVE EXIT RAMP | RAMP 30 | 3 | 4 | 12 | | | 12 | | LP | |
| WB-190-TR-065 (REM) | 3089+06 | LT | I 90 WB | EXIT 79A-B | 24.5 | 9.2 | 225.4 | | | | 225.4 | | |
| WB-CAR-WP-066 (REM) | 3085+70 | RT | CANFIELD AVE EXIT RAMP | EXIT 80 | 6.5 | 5 | 32.5 | | | | 32.5 | 1 | 1 |
| WB-190-BR-067 (REM) | 3094+00 | LT | I 90 WB | EXIT 80 CANFIELD RD | 15 | 8.5 | 127.5 | | | | 127.5 | | |
| WB-190-LP-069 (REM) | 3094+26 | LT | I 90 WB | SPEED LIMIT 55 | 3 | 4 | 12 | | | 12 | | LP | |
| WB-190-BS-070 (REM) | 3096+76 | LT | I 90 WB | INDIANA O'HARE | 27 | 15.5 | 418.5 | | | | 418.5 | 3 | 3 |
| WB-190-LP-071 (REM) | 3100+28 | LT | I 90 WB | WEST | 2 | 1 | 2 | | 2 | | | LP | |
| WB-190-LP-072 (REM) | 3100+28 | LT | I 90 WB | 90 | 2 | 2 | 4 | | 4 | | | | |
| WB-190-TS-073 (REM) | 3103+20 | LT | I 90 WB | TRUCKS USE 2 RIGHT | 3 | 4 | 12 | | | 12 | | 1 | |
| WB-190-BS-075 (REM) | 3109+60 | LT | I 90 WB | EXIT 80 CANFIELD RD | 16 | 9.2 | 147.2 | | | | 147.2 | 2 | 2 |
| WB-HRD-TS-076 (REM) | 103+67 | LT | HARLEM RAMP D | MERGE | 4 | 4 | 16 | | | 16 | | 1 | |
| WB-HRD-TS-078 (REM) | 102+48 | LT | HARLEM RAMP D | STOP HERE ON RED | 2 | 2.5 | 5 | | 5 | | | 1 | |
| WB-HRD-TS-079 (REM) | 102+48 | RT | HARLEM RAMP D | STOP HERE ON RED | 2 | 2.5 | 5 | | 5 | | | 1 | |
| WB-HRD-TS-080 (REM) | 100+60 | LT | HARLEM RAMP D | RAMP | 4 | 4 | 16 | | | 16 | | 1 | |
| | | | | TOTAL | | | | 1 | 93 | 172 | 6,404 | 33 | 24 |

SGN SCH-02



| | | |
|----------------------|-----------------|-----------|
| USER NAME = *USER* | DESIGNED AS | REVISED - |
| | DRAWN RV | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED AS | REVISED - |
| PLOT DATE = *DATE* | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM CUMBERLAND AVE TO HARLEM AVE
SIGNING SCHEDULES

SCALE: NTS SHEET NO. 2 OF 4 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 255 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| SIGNING PROPOSED-SCHEDULE OF QUANTITIES | | | | | | | 72000100 | 72000200 | 72000300 | 72400730 | 72800100 | 73000100 | 72700100 | | | | 73400100 | 50800205 | |
|---|-----------|--------|------------------------|--|-----------|-------------|------------|--------------------|--------------------|--------------------|----------------------------|--------------------------------|-------------------|---|-------|-------|----------|----------------------|----------------------------------|
| SIGN DESIGNATION | STATION | OFFSET | LOCATION | DESCRIPTION | SIGN SIZE | | PANEL AREA | SIGN PANEL, TYPE 1 | SIGN PANEL, TYPE 2 | SIGN PANEL, TYPE 3 | RELOCATE SIGN PANEL TYPE 3 | TELESCOPING STEEL SIGN SUPPORT | WOOD SIGN SUPPORT | STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY | | | | CONCRETE FOUNDATIONS | REINFORCEMENT BARS, EPOXY COATED |
| | | | | | W | H | | | | | | | | SO FT | SO FT | SO FT | SO FT | | |
| WB-190-BS-01B(REL) | 2993+36 | LT | I 90 WB | HELP SERVICE PATROL STATE FARM | 10 | 6 | 60 | | | | 60 | | | W6X15 | 1 | 1 | 466.05 | 1.4 | 156 |
| WB-190-WP-01D(REL) | 2995+36 | LT | I 90 WB | WEST 90 TRAIL BLAZER | 2.5,2.5,3 | 1.25,1.25,3 | 15.25 | 3.125; 3.125; 9 | | | | | 18 | | | | | | |
| WB-190-BS-01F(REL) | 2997+36 | LT | I 90 WB | USE CAR PHONE TO REPORT ROAD INCIDENTS | 17 | 7 | 119 | | | | 119 | | | W6X15 | 1 | 1 | 485 | 1.4 | 156 |
| WB-190-BS-01H(REL) | 2999+86 | LT | I 90 WB | WELCOME TO ILLINOIS TOLLWAY | 14 | 10 | 140 | | | | 140 | | | W8X18 | 1 | 1 | 703 | 1.4 | 156 |
| WB-CD-WP-03 (NEW) | 1010+20 | LT | I 90 WB | EXIT 0 | 6.5 | 5 | 32.5 | | | 32.5 | | 34 | | | | | | | |
| WB-CD-BR-08 (NEW) | 1000+68 | | I 90 WB CD | ROCKFORD MILWAUKEE | 14 | 20.5 | 287 | | | 287 | | | | | | | | | |
| WB-CD-BR-09 (NEW) | 1000+68 | | I 90 WB CD | INDIANA O'HARE | 17 | 14 | 238 | | | 238 | | | | | | | | | |
| WB-CD-WP-10A(NEW) | 1000+15 | | I 90 WB CD | EAST RIVER RD | 8.5 | 1.5 | 12.75 | | 12.75 | | | 28 | | | | | | | |
| WB-CD-BS-12 (NEW) | 50+43 | RT | I 90 WB CD | RIVER ROAD | 19 | 5 | 95 | | | 95 | | | | W6X15 | 1 | 1 | 511 | 1.4 | 156 |
| WB-CD-TR-14 (NEW) | 46+25 | LT | I 90 WB | ROCKFORD MILWAUKEE | 15.5 | 20.5 | 317.75 | | | 317.75 | | | | | | | | | |
| WB-CD-LP-15 (NEW) | 1005+00 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | LP | | | | | | | |
| WB-CD-TS-15A (NEW) | 1005+80 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-15B (NEW) | 1006+60 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-15C (NEW) | 1007+40 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-15D (NEW) | 1008+20 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-15E (NEW) | 1009+00 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-15F (NEW) | 1009+80 | LT | CUMBERLAND RAMP DD | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | 14.5 | | | | | | | |
| WB-CD-TS-18A (NEW) | 35+28 | | I 90 WB | MERGE | 4 | 4 | 16 | | 16 | | | 16 | | | | | | | |
| WB-CRD-TS-21 A(NEW) | 908+13 | RT | CUMBERLAND AVE RAMP | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | 14.5 | | | | | | | |
| WB-CRD-TS-22A (NEW) | 908+13 | LT | CUMBERLAND AVE RAMP | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | 14.5 | | | | | | | |
| WB-CD-CA-23 (NEW) | 33+50 | | I 90 WB CD | ROCKFORD MILWAUKEE | 14 | 19.5 | 273 | | | 273 | | | | | | | | | |
| WB-CD-WP-25A (NEW) | 30+70 | RT | I 90 WB CD | EXIT 79 A | 9 | 5 | 45 | | | 45 | | 34 | | | | | | | |
| WB-CRCC-BS-26A (NEW) | 800+55 | LT | RAMP CC | WEST O' HARE WEST | 18.5 | 11.5 | 212.75 | | | 212.75 | | | | W14X38 | 1 | 1 | 1782.58 | 4.18 | 244 |
| WB-CD-TS-27A (NEW) | 25+72 | RT | I 90 WB CD | RAMP | 3 | 4 | 12 | | 12 | | | 16 | | | | | | | |
| WB-CD-BR-28A (NEW) | 26+09 | | I 90 WB CD | CUMBERLAND AVE | 23.5 | 10 | 235 | | | 235 | | | | | | | | | |
| WB-190-TS-029 (NEW) | 3103+20 | | I 90 WB CD | TRUCKS USE 2 RIGHT | 4 | 5 | 20 | | 20 | | | 17 | | | | | | | |
| WB-CRD-BS-31 (NEW) | 900+21 | LT | CUMBERLAND AVE RAMP D | WEST O' HARE WEST | 18.5 | 11.5 | 212.75 | | | 212.75 | | | | W14X38 | 1 | 1 | 1792.46 | 4.18 | 244 |
| WB-CRCC-TS-32A(NEW) | 801+25.00 | LT | | RAMP METER AHEAD | 4 | 4 | 16 | | 16 | | | 16 | | | | | | | |
| WB-CRCC-TS-33A(NEW) | 805+33.00 | RT | RAMP CC | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-34A(NEW) | 805+33.00 | LT | RAMP CC | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | 14.5 | | | | | | | |
| WB-CD-WP-35A (NEW) | 22+68 | RT | I 90 WB CD | MERGE | 4 | 4 | 16 | | 16 | | | 16 | | | | | | | |
| WB-CD-WP-38A (NEW) | 18+35 | LT | I 90 WB CD | EXIT 79 B | 9 | 5 | 45 | | | 45 | | 34 | | | | | | | |
| WB-CRC-TS-39A (NEW) | 704+32 | RT | RAMP C | RAMP 25 | 3 | 4 | 12 | | 12 | | | 16 | | | | | | | |
| WB-CD-TR-43B (NEW) | 15+50 | RT | I 90 WB CD | S CUMBERLAND AVE | 20 | 12 | 240 | | | 240 | | | | | | | | | |
| WB-CD-TR-44B (NEW) | 15+50 | RT | I 90 WB CD | N CUMBERLAND AVE | 23.5 | 8 | 188 | | | 188 | | | | | | | | | |
| WB-190-BS-48A (NEW) | 3066+00 | LT | I 90 WB | O'HARE AIRPORT | 18 | 6.5 | 117 | | | 117 | | | | W6X15 | 1 | 1 | 484.2 | 1.4 | 156 |
| WB-190-BR-050 (NEW) | 3075+85 | | I 90 WB | ROCKFORD MILWAUKEE | 44 | 16 | 704 | | | 704 | | | | | | | | | |
| WB-190-BR-050A (NEW) | 3075+85 | | I 90 WB | ROCKFORD MILWAUKEE | 10.5 | 2.5 | 26.25 | | | 26.25 | | | | | | | | | |
| WB-190-TR-051 (NEW) | 3087+00 | LT | I 90 WB | ROCKFORD MILWAUKEE | 44 | 16 | 704 | | | 704 | | | | | | | | | |
| WB-190-TR-051a (NEW) | 3087+00 | LT | I 90 WB | ROCKFORD MILWAUKEE | 10.5 | 2.5 | 26.25 | | | 26.25 | | | | | | | | | |
| WB-190-TR-052 (NEW) | 3107+50 | LT | I 90 WB | ROCKFORD MILWAUKEE | 44 | 16 | 704 | | | 704 | | | | | | | | | |
| WB-190-TR-052A (NEW) | 3107+50 | LT | I 90 WB | ROCKFORD MILWAUKEE | 10.5 | 2.5 | 26.25 | | | 26.25 | | | | | | | | | |
| WB-190-BS-53A (NEW) | 3079+00 | LT | I 90 WB | PARK & RIDE | 12 | 11 | 132 | | | 132 | | | | W8X18 | 1 | 1 | 709.92 | 1.4 | 156 |
| WB-CAR-LP-054A (NEW) | 112+15 | LT | CANFIELD AVE EXIT RAMP | DO NOT ENTER | 3 | 3 | 9 | 9 | | | | | | | | | | | |

SGN SCH-03

| | | | | | | | | | | |
|---|----------------------|-----------------|-----------|---|---|--------------------|-------------------------|--------------|---------------------------|-----------|
| AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515 | USER NAME = *USER* | DESIGNED AS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM CUMBERLAND AVE TO HARLEM AVE SIGNING SCHEDULES | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN RV | REVISED - | 90 | | | (1517 & 1415) R-2 | COOK | 737 | 256 | |
| | PLOT SCALE = *SCALE* | CHECKED AS | REVISED - | | | CONTRACT NO. 60Y39 | | | | |
| | PLOT DATE = *DATE* | DATE 01/19/2018 | REVISED - | | | SCALE: NTS | SHEET NO. 3 OF 4 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | |

FILE NAME = *FILEL*

| SIGNING PROPOSED-SCHEDULE OF QUANTITIES | | | | | | | 72000100 | 72000200 | 72000300 | 72400730 | 72800100 | 73000100 | 72700100 | | | | 73400100 | 50800205 | | |
|---|---------------|--------|------------------------|--------------------------|-----------|------|------------|--------------------|--------------------|--------------------|----------------------------|--------------------------------|-------------------|---|-------|-------|----------|----------------------|----------------------------------|------|
| SIGN DESIGNATION | STATION | OFFSET | LOCATION | DESCRIPTION | SIGN SIZE | | PANEL AREA | SIGN PANEL, TYPE 1 | SIGN PANEL, TYPE 2 | SIGN PANEL, TYPE 3 | RELOCATE SIGN PANEL TYPE 3 | TELESCOPING STEEL SIGN SUPPORT | WOOD SIGN SUPPORT | STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY | | | | CONCRETE FOUNDATIONS | REINFORCEMENT BARS, EPOXY COATED | |
| | | | | | W | H | | | | | | | | SO FT | SO FT | SO FT | SO FT | | | FOOT |
| WB-CAR-TS-57A (NEW) | 111+87 | RT | CANFIELD AVE EXIT RAMP | DO NOT ENTER | 3 | 3 | 9 | 9 | | | | | | | | | | | | |
| WB-CAR-TS-58A (NEW) | 112+10 | RT | CANFIELD AVE EXIT RAMP | STOP | 3 | 3 | 9 | 9 | | | | | | | | | | | | |
| WB-CAR-TS-060 A(NEW) | 110+58 | RT | CANFIELD AVE EXIT RAMP | WRONG WAY | 3 | 2 | 6 | 6 | | | | | | | | | | | | |
| WB-CAR-TS-061 A(NEW) | 110+58 | LT | CANFIELD AVE EXIT RAMP | WRONG WAY | 3 | 2 | 6 | 6 | | | | | | | | | | | | |
| WB-CAR-TS-62A (NEW) | 107+88 | RT | CANFIELD AVE EXIT RAMP | ADVANCED TRAFFIC CONTROL | 4 | 4 | 16 | | 16 | | | | | | | | | | | |
| WB-CAR-TS-63 A(NEW) | 107+88 | LT | CANFIELD AVE EXIT RAMP | ADVANCED TRAFFIC CONTROL | 4 | 4 | 16 | | 16 | | | | | | | | | | | |
| WB-CAR-LP-64 A(NEW) | 103+17 | RT | CANFIELD AVE EXIT RAMP | RAMP 30 | 3 | 4 | 12 | | 12 | | | | LP | | | | | | | |
| WB-CAR-TS-66A (NEW) | 3087+10 | RT | I 90 WB | EXIT 80 | 5.5 | 7.5 | 41.25 | | | 41.25 | | | | 34 | | | | | | |
| WB-190-BR-67A (NEW) | 3094+00 | LT | I 90 WB | EXIT 80 CANFIELD RD | 15 | 8.5 | 127.5 | | | 127.5 | | | | | | | | | | |
| WB-190-BR-068 (NEW) | 3094+00 | LT | I 90 WB | O'HARE/CUMBERLAND | 27 | 17.5 | 472.5 | | | 472.5 | | | | | | | | | | |
| WB-190-LP-69A (NEW) | 3094+26 | LT | I 90 WB | SPEED LIMIT 55 | 4 | 6 | 24 | | 24 | | | | LP | | | | | | | |
| WB-190-LP-71 A(NEW) | 3100+28 | LT | I 90 WB | WEST | 3 | 1.5 | 4.5 | 4.5 | | | | | LP | | | | | | | |
| WB-190-LP-72A (NEW) | 3100+28 | LT | I 90 WB | 90 | 3 | 3 | 9 | 9 | | | | | | | | | | | | |
| WB-HRD-BM-077 (NEW) | 103+67 | LT | HARLEM RAMP D | ADDED LANE | 4 | 4 | 16 | | 16 | | | | 16 | | | | | | | |
| WB-HRD-TS-78A(NEW) | 102+48 | LT | HARLEM RAMP D | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | | 14.5 | | | | | | | |
| WB-HRD-TS-79A(NEW) | 102+48 | RT | HARLEM RAMP D | STOP HERE ON RED | 2.0 | 2.5 | 5 | 5 | | | | | 14.5 | | | | | | | |
| WB-HRD-TS-80A(NEW) | 100+60 | LT | HARLEM RAMP D | RAMP METER AHEAD | 4 | 4 | 16 | | 16 | | | | 16 | | | | | | | |
| WB-190-BR-081 (NEW) | 3121+00 | | I 90 WB | O'HARE CUMBERLAND | 27 | 17.5 | 472.5 | | | 472.5 | | | | | | | | | | |
| WB-190-BR-082 (NEW) | 3121+00 | | I 90 WB | CANFIELD RD | 15 | 8 | 120 | | | 120 | | | | | | | | | | |
| WB-190-BR-83 (NEW) | AT NAGLE BRDG | | I 90 WB | CUMBERLAND AVE | 27 | 17.5 | 472.5 | | | 472.5 | | | | | | | | | | |
| WB-CRCC-TS-.84(NEW) | 801+00 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-.84A(NEW) | 801+80 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-.84B(NEW) | 802+60 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-.84C(NEW) | 803+40 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-.84D(NEW) | 804+20 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-CRCC-TS-.84E(NEW) | 805+00 | LT | CUMBERLAND RAMP CC | W1-8 | 3 | 2.5 | 7.5 | 7.5 | | | | | 14.5 | | | | | | | |
| WB-190-TR-85(NEW) | 3128+86.85 | | I 90 WB | DMS | | | | | | | | | | | | | | | | |
| WB-CD-BS-86(NEW) | 12+00 | LT | I 90 WB | PARK & RIDE | 12 | 11 | 132 | | | 132 | | | | | | | | | | |
| | | | | TOTAL | | | | 195 | 205 | 6,700 | 319 | 464 | 198 | | | | | | | |

SIGNING LEGEND

- ↑ PROPOSED SIGN GROUND MOUNTED
- ↑ EXISTING SIGN GROUND MOUNTED
- PROPOSED OVERHEAD SIGN STRUCTURE, SPAN TYPE
- PROPOSED OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE
- PROPOSED SIGN PANEL
- REMOVE SIGN PANEL

SIGN LEGEND

- WB-190-TS-01.(NEW)
- DIRECTION OF TRAFFIC
WB-WESTBOUND
- ROADWAY
I90 - I-90
CD - I-90 WB CD ROAD
CRD - CUMBERLAND AVE RAMP D
CAR - CANFIELD RAMP
CRCC - CUMBERLAND RAMP CC
CRC - CUMBERLAND RAMP C
- ACTION
NEW - NEW PROPOSED
REM - REMOVED
- SIGN PANEL NUMBER
- MOUNTING TYPE
WP -WOOD POST
TS - TELESCOPING STEEL
LP - LIGHT POLE
BR - BRIDGE MOUNTED
TR - TRUSS
BS - BREAKAWAY STEEL
CA - CANTILEVER
BM - BARRIER MOUNTED

SGN SCH-04

AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

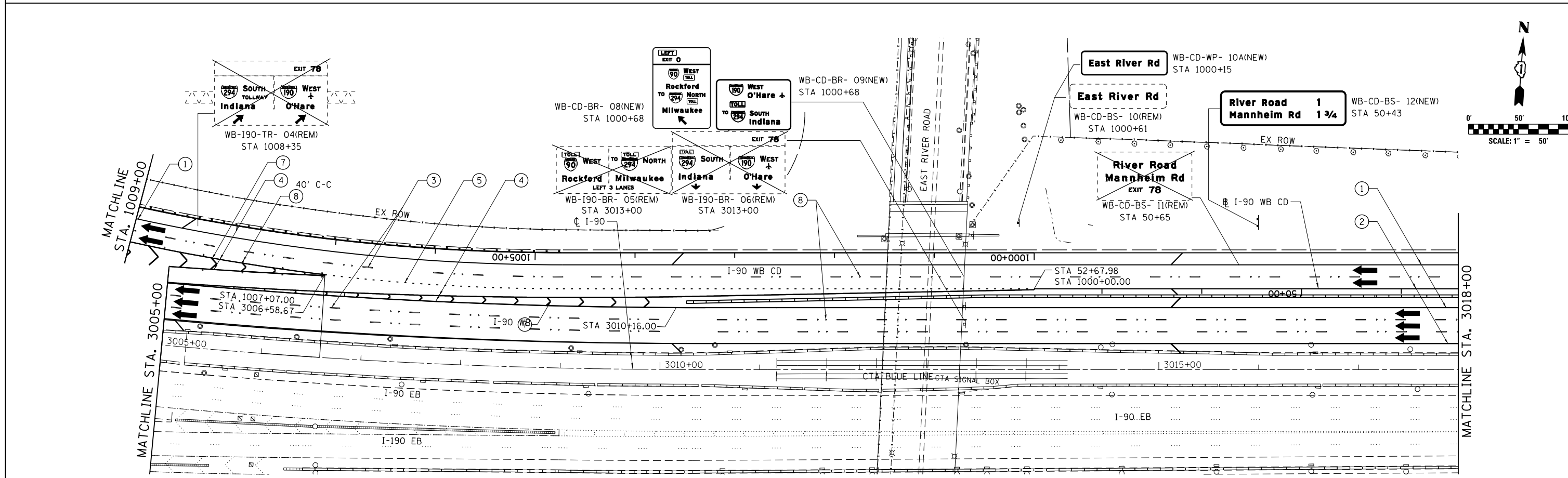
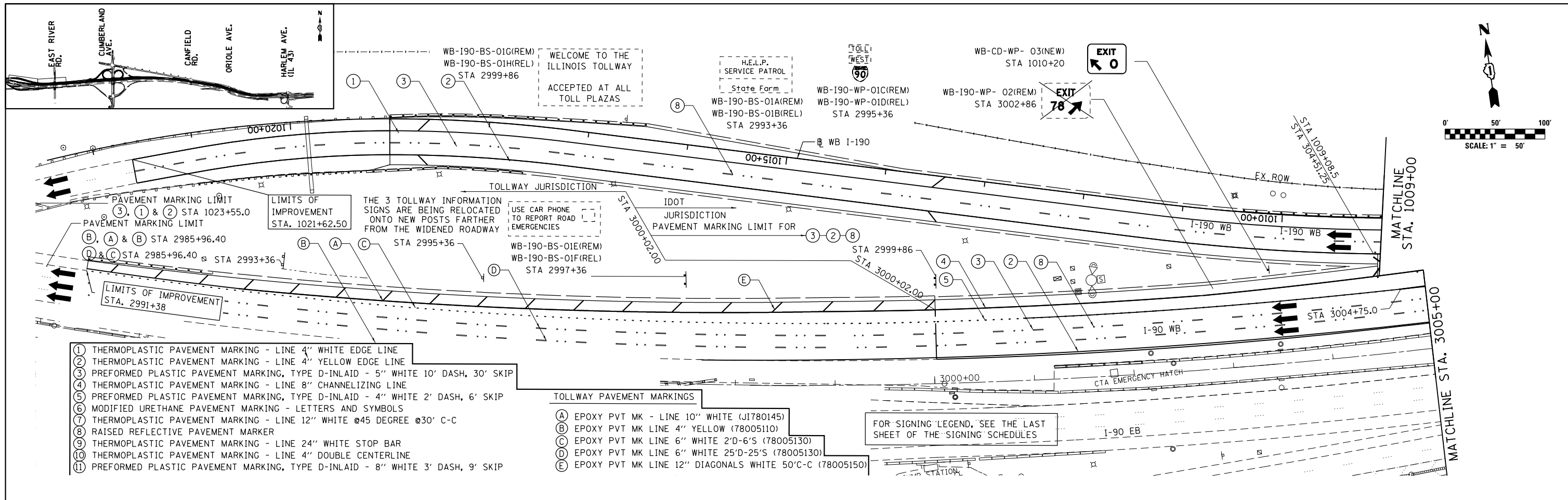
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|----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED AS | REVISED - |
| | DRAWN RV | REVISED - |
| PLOT SCALE = #SCALE# | CHECKED AS | REVISED - |
| PLOT DATE = #DATE# | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

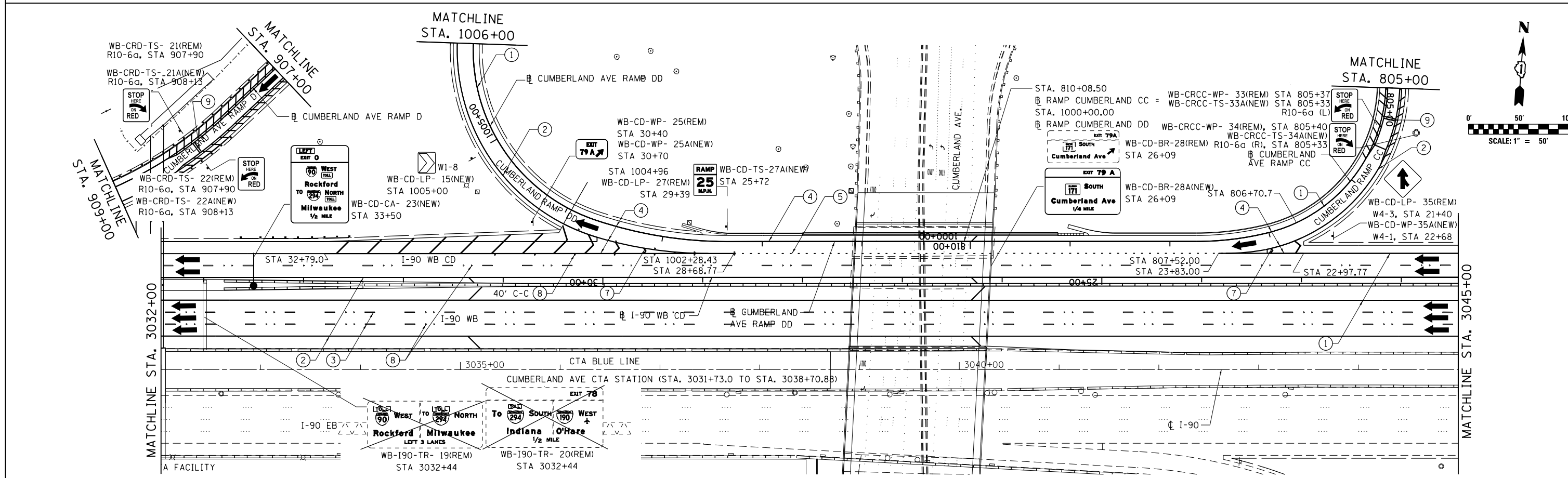
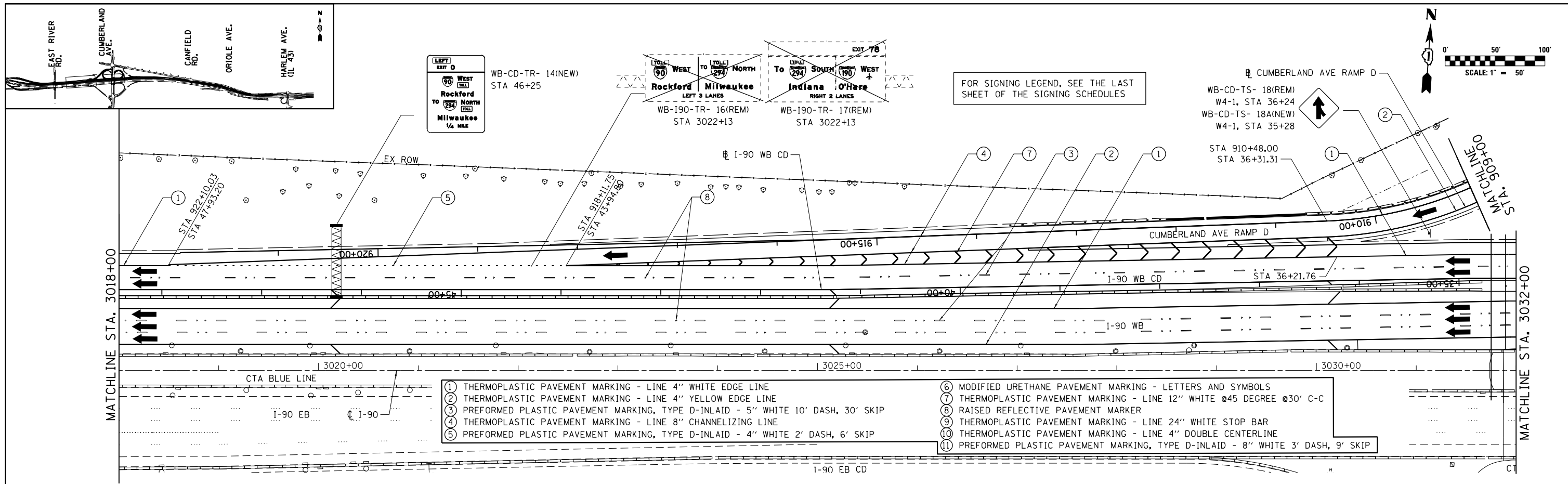
I-90 WESTBOUND FROM CUMBERLAND AVE TO HARLEM AVE
SIGNING SCHEDULES

SCALE: NTS SHEET NO. 4 OF 4 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 257 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

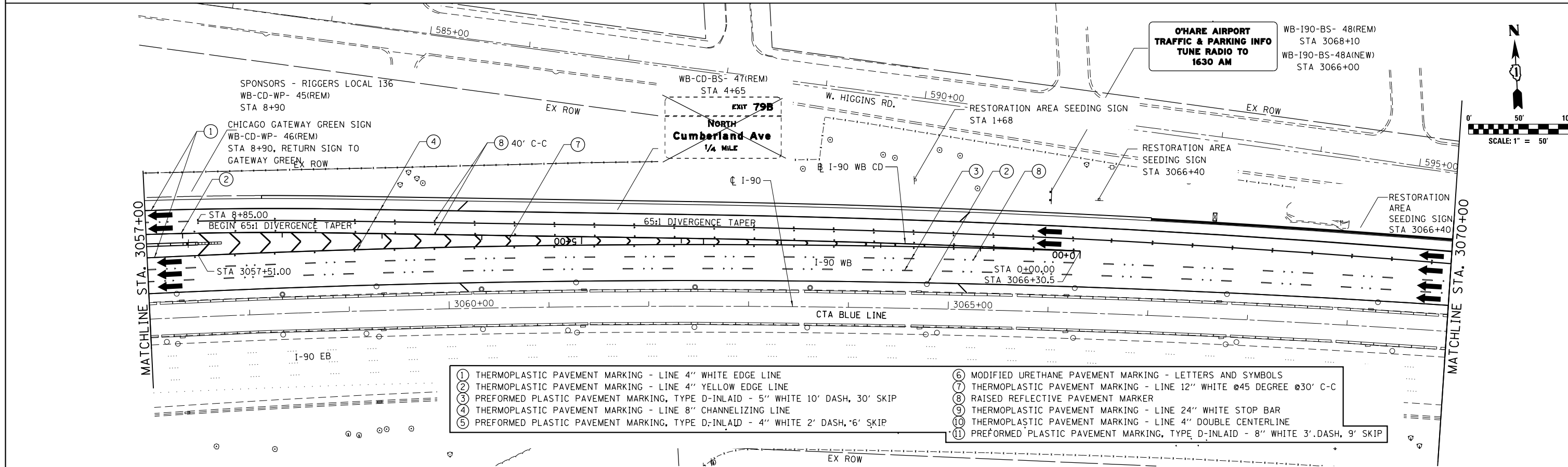
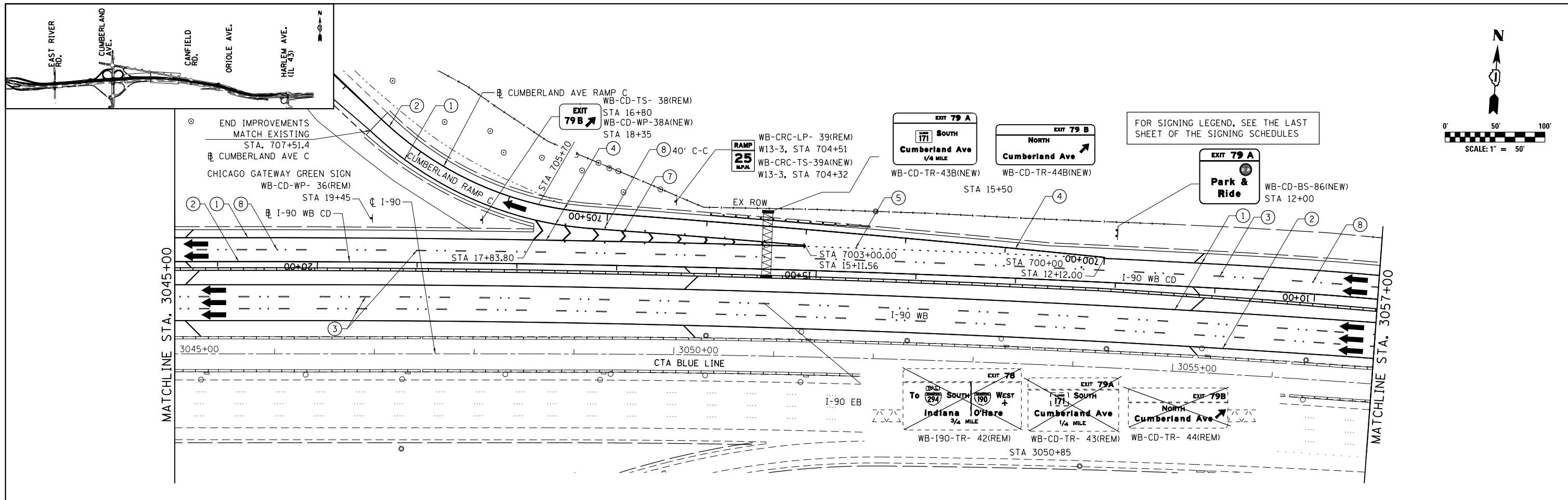


| | | | | | | | | | | | |
|---|----------------------|-----------------|-----------|---|--|---------------------------|---------------------------|--------------|--------------------|---------------|--|
| AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515 FILE NAME = #FILE# | USER NAME = #USER# | DESIGNED AS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE PAVEMENT MARKING AND SIGNING PLAN | F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 258 | |
| | PLOT SCALE = #SCALE# | CHECKED AS | REVISED - | | | SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. TO STA. | CONTRACT NO. 60Y39 | | |
| | PLOT DATE = #DATE# | DATE 01/19/2018 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |



| | | | | | | | | | | | | |
|---|----------------------|-----------------|-----------|---|---|---------------------------|---------------------------|-------------|------------------|--------------------|--|--|
| AMES Engineering, Inc. CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515 | USER NAME = #USER* | DESIGNED AS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE PAVEMENT MARKING AND SIGNING PLAN | F.A.I. R.T.E. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 259 | | |
| | PLOT SCALE = #SCALE* | CHECKED AS | REVISED - | | | SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA. | CONTRACT NO. 60Y39 | | |
| | PLOT DATE = #DATE* | DATE 01/19/2018 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | | |

FILE NAME = #FILE#



- | | |
|---|---|
| <ul style="list-style-type: none"> ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 5" WHITE 10' DASH, 30' SKIP ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" CHANNELIZING LINE ⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 4" WHITE 2' DASH, 6' SKIP | <ul style="list-style-type: none"> ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C ⑧ RAISED REFLECTIVE PAVEMENT MARKER ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE CENTERLINE ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 8" WHITE 3' DASH, 9' SKIP |
|---|---|

AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

| | | |
|----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED AS | REVISED - |
| PLOT SCALE = #SCALE# | DRAWN RV | REVISED - |
| PLOT DATE = #DATE# | CHECKED AS | REVISED - |
| | DATE 01/19/2018 | REVISED - |

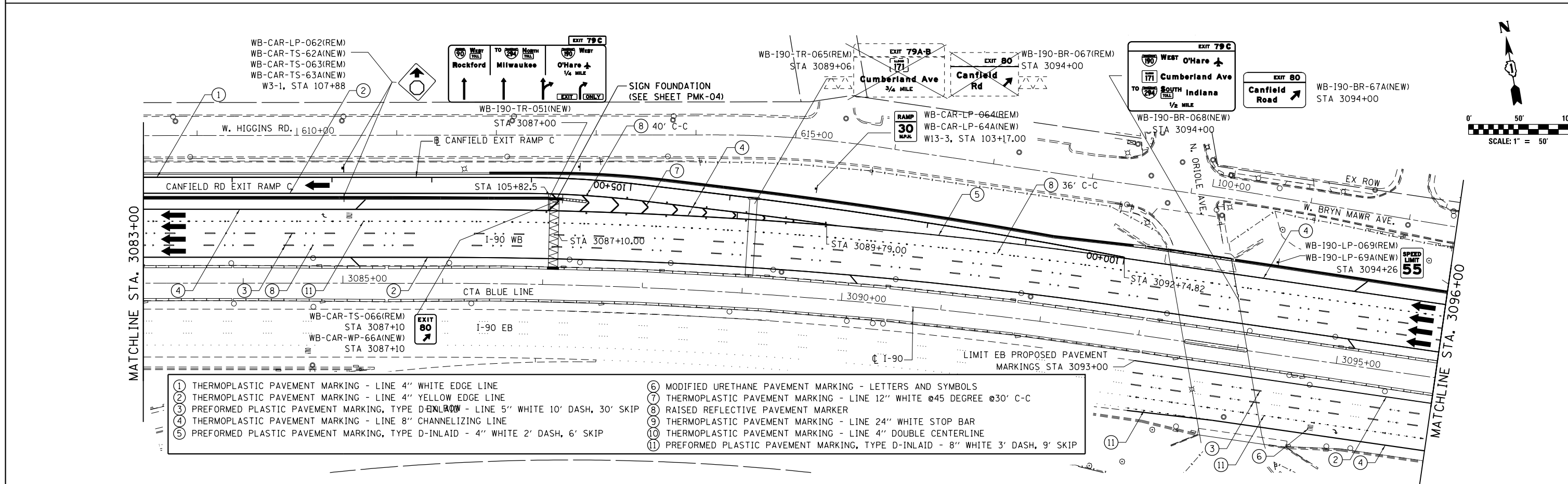
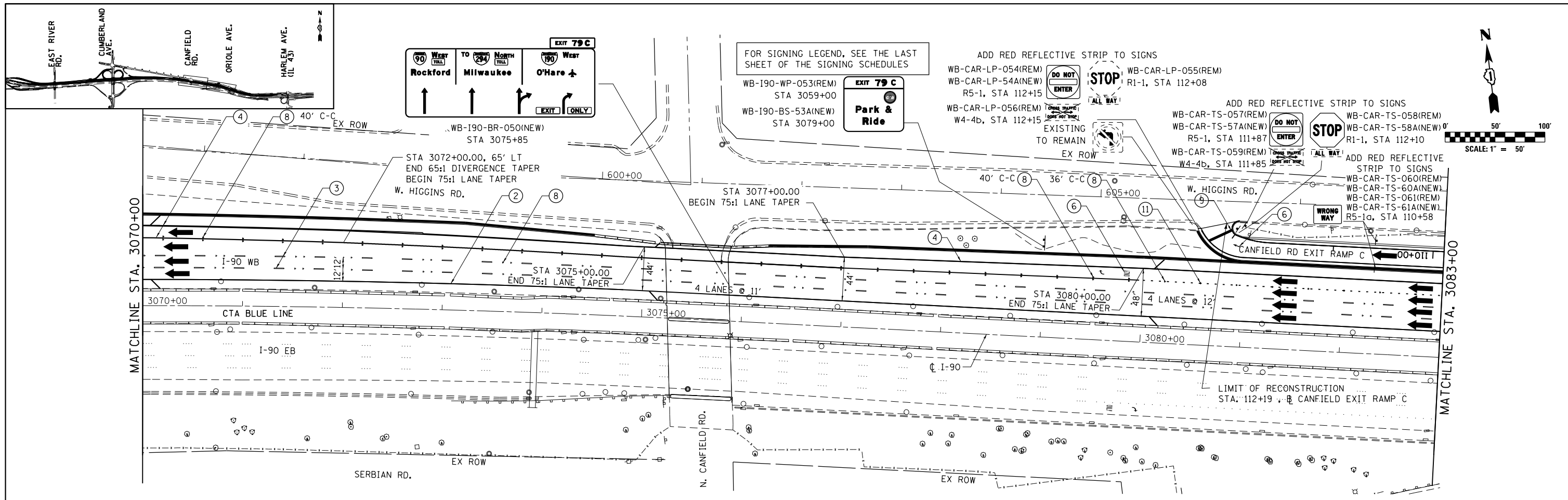
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PAVEMENT MARKING AND SIGNING PLAN**

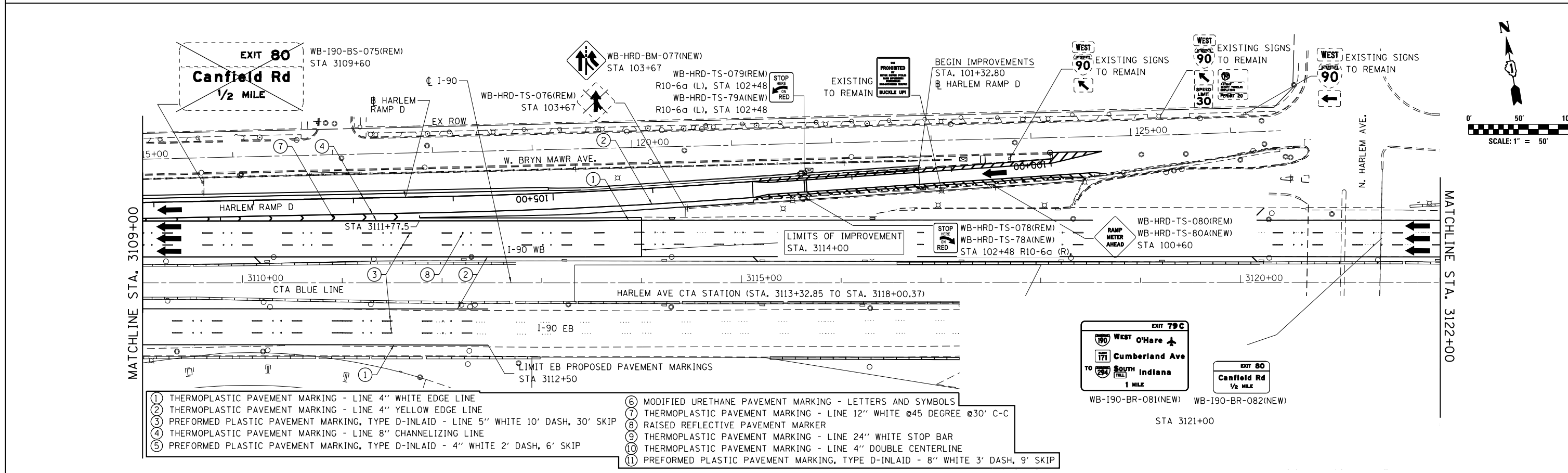
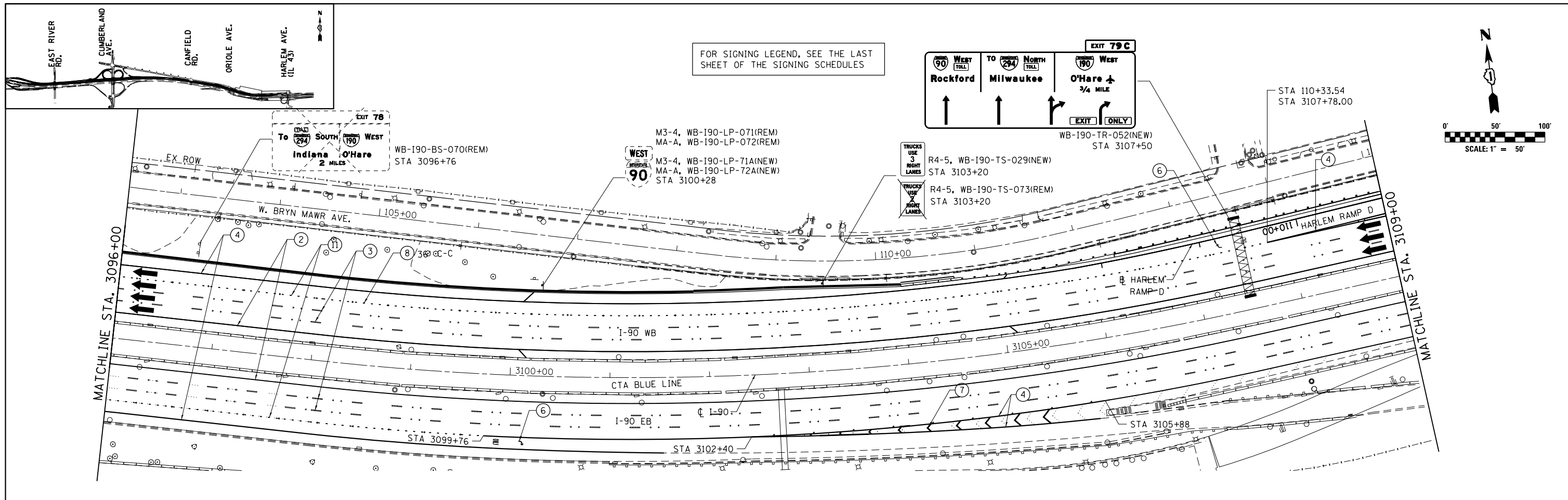
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|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 260 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

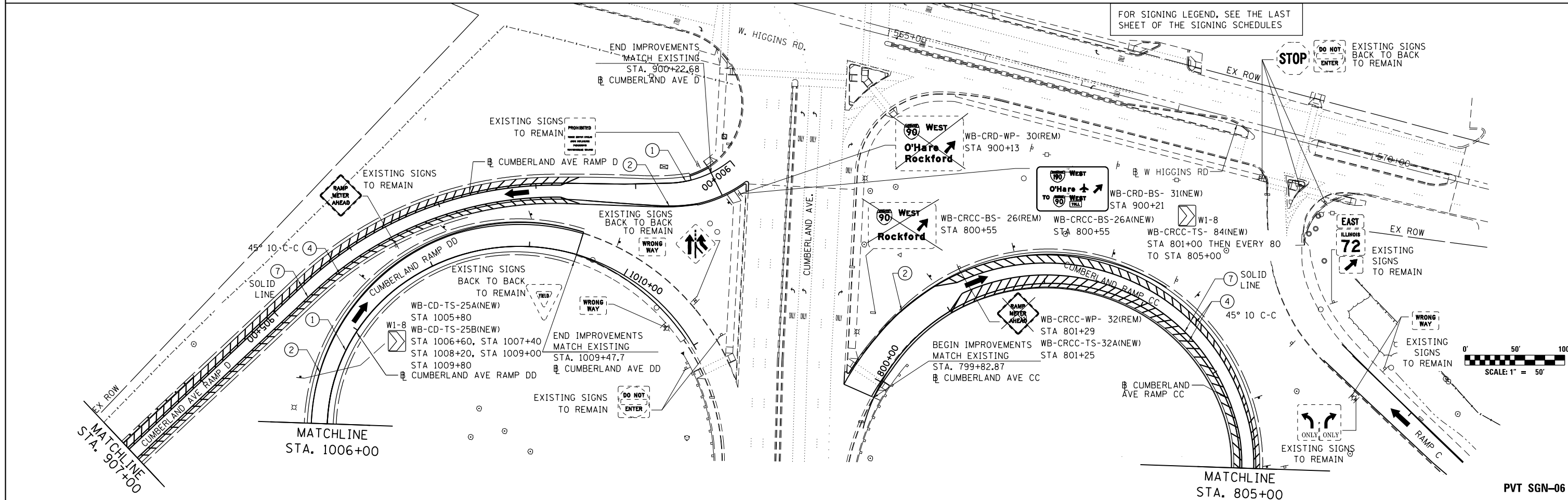
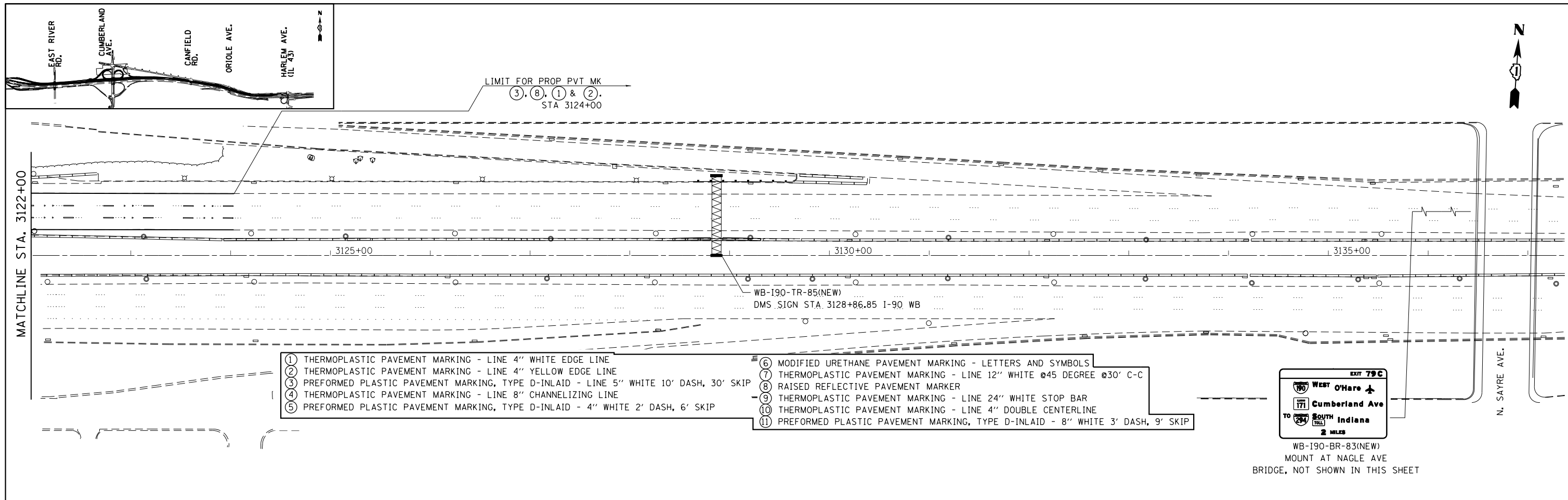
FILE NAME = #FILE#

PVT SGN-03



- | | |
|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE | ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW EDGE LINE | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE @45 DEGREE @30' C-C |
| ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - LINE 5" WHITE 10' DASH, 30' SKIP | ⑧ RAISED REFLECTIVE PAVEMENT MARKER |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" CHANNELIZING LINE | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR |
| ⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 4" WHITE 2' DASH, 6' SKIP | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE CENTERLINE |
| | ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D-INLAID - 8" WHITE 3' DASH, 9' SKIP |





AMES Engineering, Inc.
CONSULTING ENGINEERS
5413 Walnut Avenue, Ste 2
Downers Grove, IL 60515

| | | |
|----------------------|-----------------|-----------|
| USER NAME = #USER# | DESIGNED AS | REVISED - |
| PLOT SCALE = #SCALE# | DRAWN RV | REVISED - |
| PLOT DATE = #DATE# | CHECKED AS | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

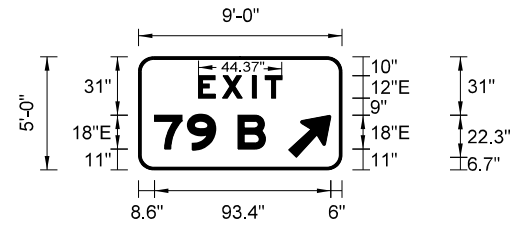
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
PAVEMENT MARKING AND SIGNING PLAN

| | | | | |
|---------------------------|---------------------------|-------------|------------------|---------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-2 | COUNTY COOK | TOTAL SHEETS 734 | SHEET NO. 263 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME = #FILE#

SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

PVT SGN-06

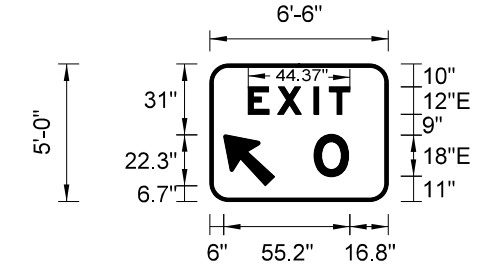


| | |
|---------------|--------------------------------|
| SIGN NUMBER | WB-CD-WP-38A(NEW) |
| WIDTH x HGHT. | 9'-0" x 5'-0" |
| BORDER WIDTH | 1.5" |
| CORNER RADIUS | 8" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|------|-----|-----|------|
| AR_Type A | 315 | 79.7 | 6.6 | 18 | 28.4 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|-----|------|------|--|--|--|--|--------|-----------|
| | E | X | I | T | | | | | | | E 2000 |
| 31.8 | 12.8 | 15.8 | 6.8 | 9 | 31.8 | | | | | 44.4 | 12 |
| | 7 | 9 | | B | | | | | | | E 2000 |
| 8.6 | 17.6 | 14.6 | 12 | 14.6 | 40.7 | | | | | 58.8 | 18 |

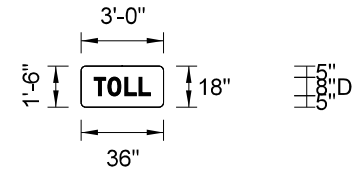


| | |
|---------------|--------------------------------|
| SIGN NUMBER | WB-CD-WP-03(NEW) |
| WIDTH x HGHT. | 6'-6" x 5'-0" |
| BORDER WIDTH | 1.5" |
| CORNER RADIUS | 8" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|---|-----|-----|------|
| AR_Type A | 225 | 6 | 6.8 | 18 | 28.4 |

Letter spacings are to start of next letter

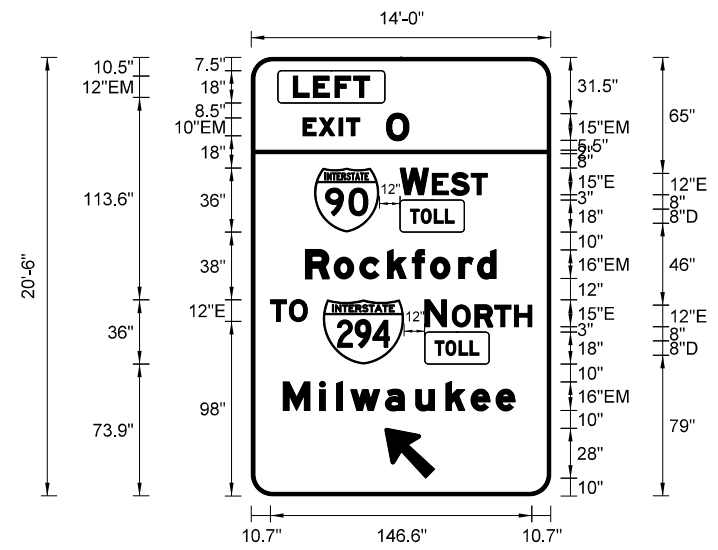
| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|-----|---|------|--|--|--|--|--------|-----------|
| | E | X | I | T | | | | | | | E 2000 |
| 16.8 | 12.8 | 15.8 | 6.8 | 9 | 16.8 | | | | | 44.4 | 12 |
| | 0 | | | | | | | | | | E 2000 |
| 45.6 | 15.1 | 17.3 | | | | | | | | 15.1 | 18 |



| | |
|---------------|--------------------------------------|
| BACKGROUND | TYPE: ZZ COLOR: Yellow |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black/Black/White |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|---|---|---|---|---|--|--|--|--|--------|-----------|
| | T | O | L | L | | | | | | | D 2000 |
| 6 | 6 | 7 | 6 | 5 | 6 | | | | | 25 | 8 |

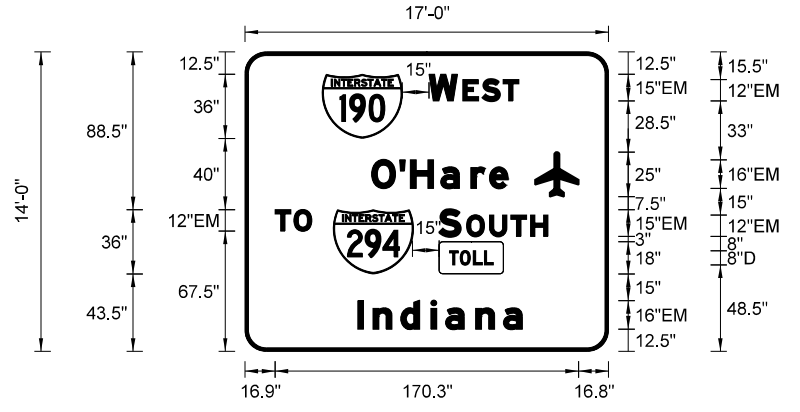


| | |
|---------------|---------------------------------------|
| SIGN NUMBER | WB-CD-BR-08(NEW) |
| WIDTH x HGHT. | 14'-0" x 20'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White /Black/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|------|-------|------|------|
| MI_1 | 0 | 35.5 | 147.9 | 36 | 36 |
| MI_1 | 0 | 40.4 | 73.9 | 45 | 36 |
| AR_Type A | 225 | 74.9 | 9.9 | 22.6 | 35.6 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE | |
|----------------------|------|------|-------|------|-------|------|------|------|------|--------|-----------|-------|
| | L | E | F | T | | | | | | | EM 2000 | |
| 23.6 | 11.3 | 12 | 10.5 | 8.9 | 101.7 | | | | | 42.7 | 12 | |
| | E | X | I | T | 0 | | | | | | EM 2000 | |
| 29 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 12.6 | 79.6 | | | 59.5 | 10,15 | |
| | W | E | S | T | | | | | | | E 2000 | |
| 83.5 | 15.9 | 2.2 | 10.7 | 11 | 9 | 35.7 | | | | 48.8 | 15,12 | |
| | T | O | L | L | | | | | | | D 2000 | |
| 89.2 | 6 | 7.4 | 6.2 | 5 | 54.2 | | | | | 24.6 | 8 | |
| | R | o | c | k | f | o | r | d | | | EM 2000 | |
| 30.6 | 15.8 | 14.4 | 15.5 | 13.9 | 10.2 | 15.8 | 10.4 | 10.6 | 30.6 | 106.7 | 16,12 | |
| | T | O | | | | | | | | | E 2000 | |
| 10.7 | 10.7 | 10.1 | 136.5 | | | | | | | 20.8 | 12 | |
| | N | O | R | T | H | | | | | | E 2000 | |
| 97.4 | 12.2 | 3.2 | 12.8 | 11 | 11 | 9.7 | 10.6 | | | 60 | 15,12 | |
| | T | O | L | L | | | | | | | D 2000 | |
| 103.1 | 6 | 7.4 | 6.2 | 5 | 40.3 | | | | | 24.6 | 8 | |
| | M | i | l | w | a | u | k | e | e | | EM 2000 | |
| 18 | 20.3 | 9.6 | 7.8 | 19.5 | 17 | 17 | 14.1 | 14.1 | 10.6 | 20.1 | 129.9 | 16,12 |

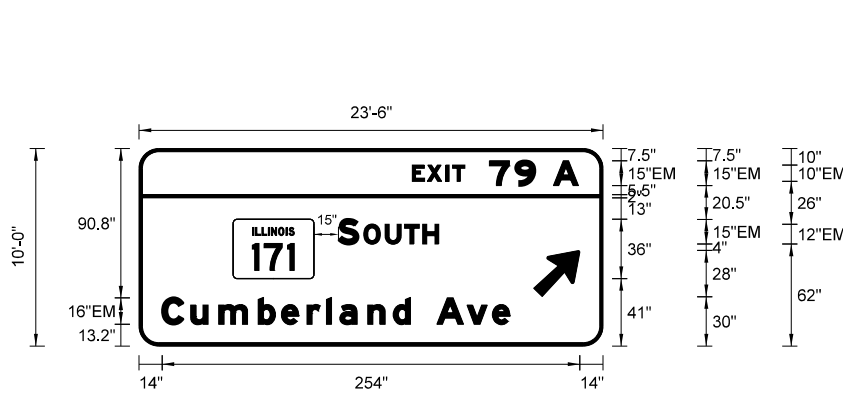


| | |
|---------------|---------------------------------------|
| SIGN NUMBER | WB-CD-BR-09(NEW) |
| WIDTH x HGHT. | 17'-0" x 14'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White /Black/White |

| SYMBOL | ROT | X | Y | WID | HT |
|---------|-----|-------|-------|------|----|
| MI_1 | 0 | 88.3 | 141.8 | 15.7 | 24 |
| MI_1 | 0 | 43.3 | 119.5 | 45 | 36 |
| Airport | 0 | 162.7 | 87 | 24.5 | 25 |
| MI_1 | 0 | 49.5 | 43.5 | 45 | 36 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | LENGTH | SERIESIZE |
|----------------------|------|------|-------|------|------|------|------|------|--|--------|-----------|
| | W | E | S | T | | | | | | | EM 2000 |
| 103.3 | 15.9 | 3 | 11 | 11.5 | 8.9 | 50.3 | | | | 50.3 | 15,12 |
| | O | ' | H | a | r | e | | | | | EM 2000 |
| 71.1 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 56.3 | | | 76.7 | 16,12 |
| | T | O | | | | | | | | | EM 2000 |
| 16.9 | 10.6 | 10.1 | 166.5 | | | | | | | 20.6 | 12 |
| | S | O | U | T | H | | | | | | EM 2000 |
| 109 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 34.1 | | | 61 | 15,12 |
| | T | O | L | L | | | | | | | D 2000 |
| 114.7 | 6 | 7.4 | 6.2 | 5 | 64.7 | | | | | 24.6 | 8 |
| | I | n | d | i | a | n | a | | | | EM 2000 |
| 63.3 | 8.6 | 15.5 | 17 | 8.2 | 17 | 15.5 | 10.6 | 48.4 | | 92.3 | 16,12 |

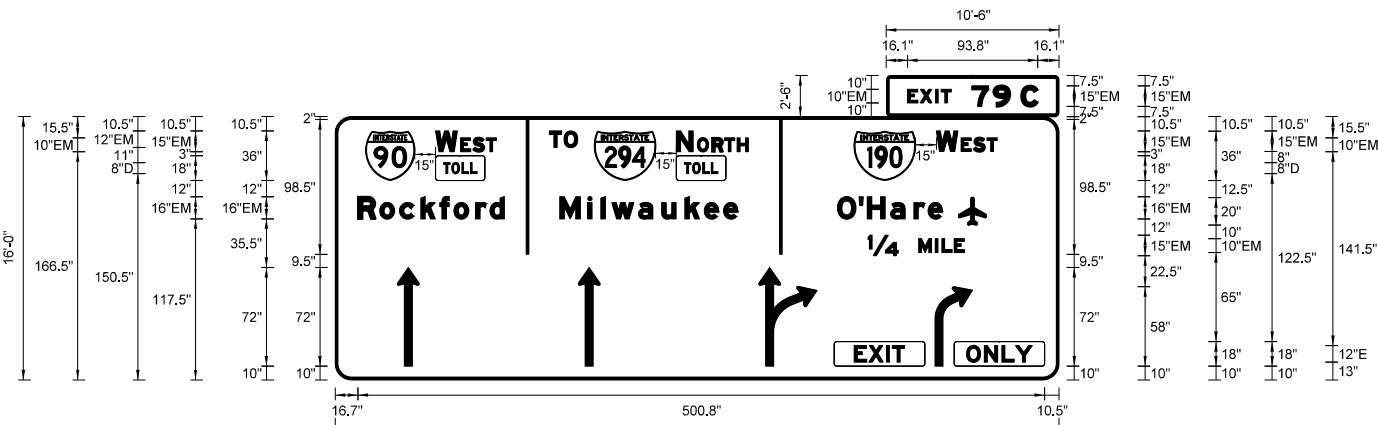


| | |
|----------------|--------------------|
| SIGN NUMBER | WB-CD-BR-28A(NEW) |
| WIDTH x HIGHT. | 23'-6" x 10'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ |
| | COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ |
| | COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|------------------|-----|-------|----|------|------|
| MI-100A-3-22-100 | 0 | 57.1 | 41 | 49.1 | 36 |
| AR_Type A | 315 | 239.9 | 30 | 22.6 | 35.6 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | | |
|----------------------|------|------|-----|------|------|------|------|----|------|------|--------|-----------|---------|------|------|-------|------|
| E | X | I | T | | 7 | 9 | | A | | | | EM 2000 | | | | | |
| 166.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 11 | 15.2 | 15 | | 100.9 | 10,15 | | | | |
| S | O | U | T | H | | | | | | | | EM 2000 | | | | | |
| 121.2 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 99.8 | | | | | 61 | 15,12 | | | | |
| C | u | m | b | e | r | l | a | n | d | A | v | e | EM 2000 | | | | |
| 14 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 56.7 | 211.4 | 1612 |

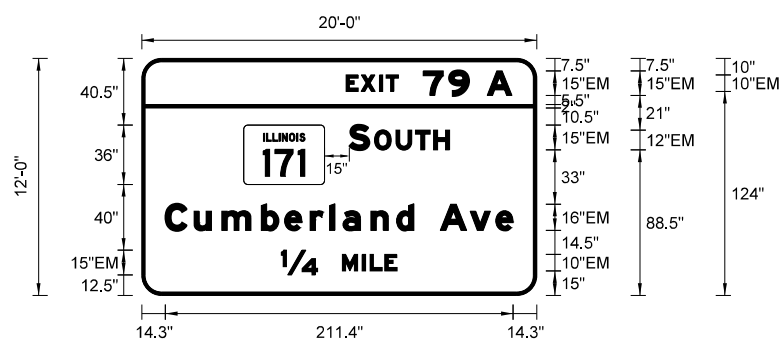


Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | |
|----------------------|------|------|-------|------|-------|-------|-------|------|-------|-------|--------|-----------|-------|
| E | X | I | T | | 7 | 9 | | C | | | | EM 2000 | |
| 16.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.2 | 12.2 | 7.5 | 12.2 | 16.1 | | 94 | 10,15 |
| T | O | | | | | | | | | | | EM 2000 | |
| 156.3 | 10.6 | 10.1 | 351.1 | | | | | | | | | 20.6 | 12 |
| W | E | S | T | | | | | | | | | EM 2000 | |
| 73.3 | 15.9 | 2.2 | 9.2 | 9.6 | 7.4 | 410.4 | | | | | | 44.4 | 15,10 |
| N | O | R | T | H | | | | | | | | EM 2000 | |
| 248.9 | 12.2 | 3 | 10.8 | 9.2 | 9.2 | 8.1 | 226.7 | | | | | 52.5 | 15,10 |
| W | E | S | T | | | | | | | | | EM 2000 | |
| 438.4 | 15.9 | 2.2 | 9.2 | 9.6 | 7.4 | 45.3 | | | | | | 44.4 | 15,10 |
| T | O | L | L | | | | | | | | | D 2000 | |
| 79 | 6 | 7.4 | 6.2 | 5 | 424.5 | | | | | | | 24.6 | 8 |
| T | O | L | L | | | | | | | | | D 2000 | |
| 254.6 | 6 | 7.4 | 6.2 | 5 | 248.8 | | | | | | | 24.6 | 8 |
| R | o | c | k | f | o | r | d | | | | | EM 2000 | |
| 16.7 | 15.8 | 14.4 | 15.5 | 13.9 | 10.2 | 15.8 | 10.4 | 10.6 | 404.7 | | | 106.7 | 1612 |
| M | i | l | w | a | u | k | e | e | | | | EM 2000 | |
| 163.9 | 20.3 | 9.6 | 7.8 | 19.5 | 17 | 17 | 14.1 | 14.1 | 0.6 | 234.2 | | 129.9 | 1612 |
| O | ' | H | a | r | e | | | | | | | EM 2000 | |
| 366.4 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 85 | | | | | 76.7 | 1612 |
| M | I | L | E | | | | | | | | | EM 2000 | |
| 388.7 | 22 | 15 | 12.1 | 4.8 | 9 | 7.4 | 69.1 | | | | | 70.3 | 15,10 |
| E | X | I | T | | | | | | | | | E 2000 | |
| 378.7 | 10.7 | 12.8 | 4.2 | 9 | 112.6 | | | | | | | 36.7 | 12 |
| O | N | L | Y | | | | | | | | | E 2000 | |
| 460.6 | 12.8 | 12.8 | 10 | 12.2 | 19.6 | | | | | | | 47.9 | 12 |

| | |
|----------------|---|
| SIGN NUMBER | WB-190-TR-051(NEW) WB-190-TR-051A(NEW) |
| WIDTH x HIGHT. | 44'-0" x 16'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | TRUSS MOUNTED |
| BACKGROUND | TYPE: ZZ |
| | COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ |
| | COLOR: White /Black/White |

| SYMBOL | ROT | X | Y | WID | HT |
|---------------|-----|-------|-------|------|----|
| MI_1 | 0 | 22.2 | 145.5 | 36 | 36 |
| MI_1 | 0 | 188.9 | 145.5 | 45 | 36 |
| MI_1 | 0 | 378.4 | 145.5 | 45 | 36 |
| Airport | 0 | 455 | 113 | 19.6 | 20 |
| AR_THRU | 0 | 45.4 | 10 | 15.9 | 72 |
| AR_THRU | 0 | 177.3 | 10 | 15.9 | 72 |
| AR_THRU_RIGHT | 0 | 309 | 10 | 42.5 | 72 |
| AR_RIGHT_ONLY | 0 | 437.4 | 10 | 27.5 | 58 |

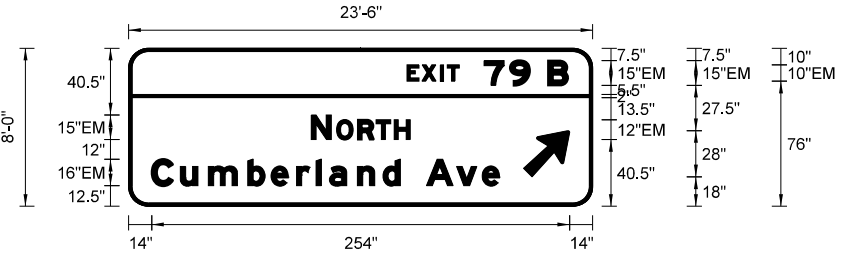


| | |
|----------------|--------------------|
| SIGN NUMBER | WB-CD-TR-43B(NEW) |
| WIDTH x HIGHT. | 20'-0" x 12'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | TRUSS MOUNTED |
| BACKGROUND | TYPE: ZZ |
| | COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ |
| | COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|------------------|-----|----|------|------|----|
| MI-100A-3-22-100 | 0 | 62 | 67.5 | 49.1 | 36 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | | |
|----------------------|------|------|------|------|------|------|------|----|------|------|--------|-----------|---------|------|------|-------|------|
| E | X | I | T | | 7 | 9 | | A | | | | EM 2000 | | | | | |
| 124.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 11 | 15.2 | 15 | | 100.9 | 10,15 | | | | |
| S | O | U | T | H | | | | | | | | EM 2000 | | | | | |
| 126.1 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 52.9 | | | | | 61 | 15,12 | | | | |
| C | u | m | b | e | r | l | a | n | d | A | v | e | EM 2000 | | | | |
| 14.3 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 14.3 | 211.4 | 1612 |
| M | I | L | E | | | | | | | | | EM 2000 | | | | | |
| 84.9 | 22 | 15 | 12.1 | 4.8 | 9 | 7.4 | 84.9 | | | | | 70.3 | 15,10 | | | | |

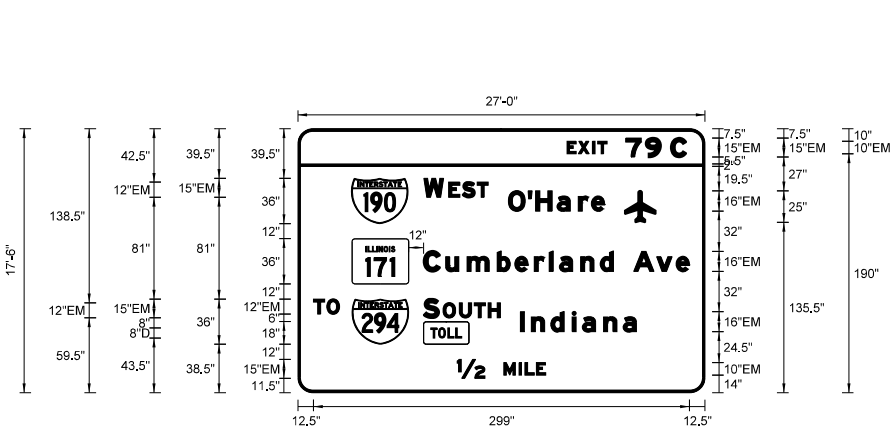


| | |
|----------------|--------------------|
| SIGN NUMBER | WB-CD-TR-44B(NEW) |
| WIDTH x HIGHT. | 23'-6" x 8'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | TRUSS MOUNTED |
| BACKGROUND | TYPE: ZZ |
| | COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ |
| | COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|-----|------|------|------|
| AR_Type A | 315 | 240 | 17.9 | 22.6 | 35.6 |

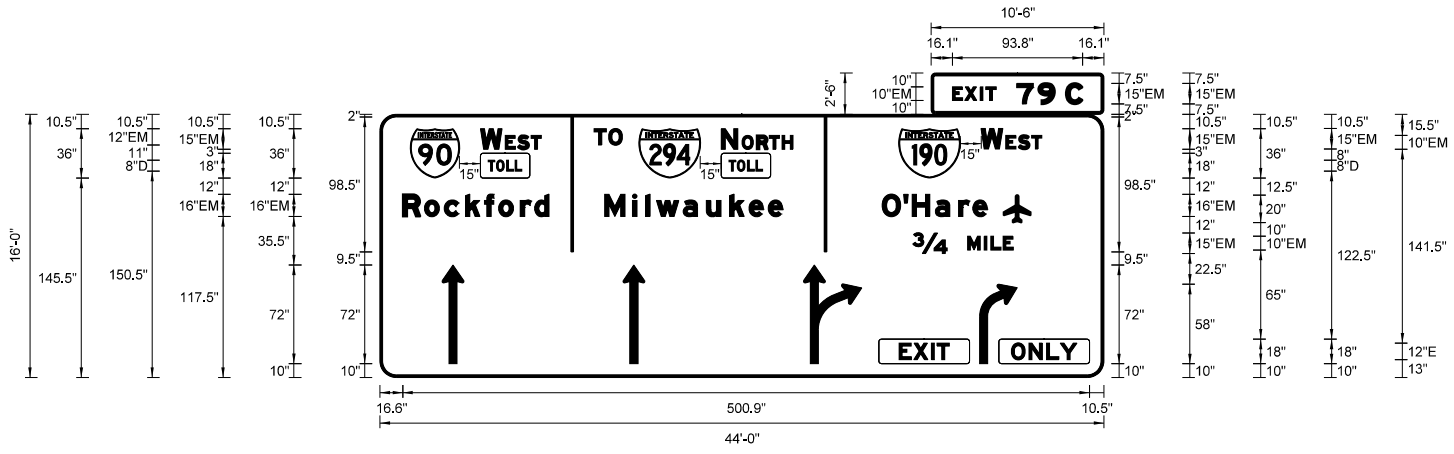
Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | | |
|----------------------|------|------|-----|------|------|------|-------|----|------|------|--------|-----------|---------|------|------|-------|------|
| E | X | I | T | | 7 | 9 | | B | | | | EM 2000 | | | | | |
| 169.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 11 | 12.1 | 15 | | 97.9 | 10,15 | | | | |
| N | O | R | T | H | | | | | | | | EM 2000 | | | | | |
| 111 | 12.2 | 3.2 | 13 | 11 | 11 | 9.7 | 110.9 | | | | | 60.1 | 15,12 | | | | |
| C | u | m | b | e | r | l | a | n | d | A | v | e | EM 2000 | | | | |
| 14 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 66.7 | 211.4 | 1612 |



| | |
|---------------|--------------------------|
| SIGN NUMBER | WB-190-BR-068(NEW) |
| WIDTH x HGHT. | 27'-0" x 17'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ |
| LEGENDBORDER | COLOR: Green |
| | TYPE: ZZ |
| | COLOR: White /BlackWhite |

| SYMBOL | ROT | X | Y | WID | HT |
|------------------|-----|-------|-------|------|----|
| Airport | 0 | 260.1 | 135.5 | 24.5 | 25 |
| MI_1 | 0 | 43.1 | 134.5 | 45 | 36 |
| MI-100A-9-22-10D | 0 | 43.2 | 86.5 | 45 | 36 |
| MI_1 | 0 | 43.1 | 38.5 | 45 | 36 |



| | |
|---------------|---|
| SIGN NUMBER | WB-190-TR-052A(NEW) WB-190-TR-052(NEW) |
| WIDTH x HGHT. | 44'-0" x 16'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | TRUSS MOUNTED |
| BACKGROUND | TYPE: ZZ |
| LEGENDBORDER | COLOR: Green |
| | TYPE: ZZ |
| | COLOR: White /BlackWhite |

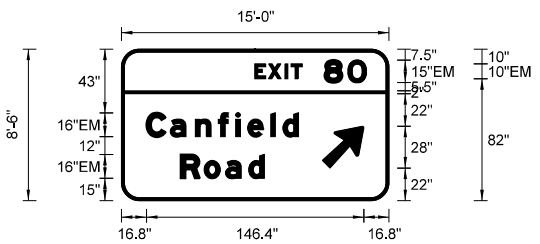
| SYMBOL | ROT | X | Y | WID | HT |
|---------------|-----|-------|-------|------|----|
| MI_1 | 0 | 22.1 | 145.5 | 36 | 36 |
| MI_1 | 0 | 188.9 | 145.5 | 45 | 36 |
| MI_1 | 0 | 378.4 | 145.5 | 45 | 36 |
| Airport | 0 | 455 | 113 | 19.6 | 20 |
| AR_THRU | 0 | 45.3 | 10 | 15.9 | 72 |
| AR_THRU | 0 | 177.3 | 10 | 15.9 | 72 |
| AR_THRU_RIGHT | 0 | 308.9 | 10 | 42.5 | 72 |
| AR_RIGHT_ONLY | 0 | 437.4 | 10 | 27.5 | 58 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | | |
|----------------------|------|------|-------|------|-------|-------|-------|------|------|------|--------|-----------|------|------|---------|---------|------|
| E | X | I | T | 7 | 9 | C | | | | | | | | | EM 2000 | | |
| 214.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 8 | 12.1 | 15 | | | | | 94.9 | 10,15 | |
| | W | E | S | T | | | | | | | | | | | | EM 2000 | |
| 100.2 | 15.9 | 4 | 11 | 11.5 | 8.9 | 172.5 | | | | | | | | | 51.3 | 15,12 | |
| | O | H | a | r | e | | | | | | | | | | | EM 2000 | |
| 167.5 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 79.9 | | | | | | | | 76.6 | 1612 | |
| | C | u | m | b | e | r | l | a | n | d | A | v | e | | | EM 2000 | |
| 100.1 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 12.5 | 211.4 | 1612 |
| | T | O | | | | | | | | | | | | | | EM 2000 | |
| 12.5 | 10.6 | 10.1 | 290.9 | | | | | | | | | | | | 20.6 | 12 | |
| | S | O | U | T | H | | | | | | | | | | | EM 2000 | |
| 100.1 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 162.9 | | | | | | | | 61 | 15,12 | |
| | I | n | d | i | a | n | a | | | | | | | | | EM 2000 | |
| 177.1 | 8.6 | 15.5 | 17 | 8.2 | 17 | 15.5 | 10.6 | 54.6 | | | | | | | 92.3 | 1612 | |
| | T | O | L | L | | | | | | | | | | | | D 2000 | |
| 105.8 | 6 | 7.4 | 6.2 | 5 | 193.6 | | | | | | | | | | 24.6 | 8 | |
| | l | M | I | L | E | | | | | | | | | | | EM 2000 | |
| 126.9 | 22 | 15 | 12.1 | 4.8 | 9 | 7.4 | 126.9 | | | | | | | | 70.3 | 15,10 | |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | |
|----------------------|------|------|-------|------|-------|-------|-------|------|-------|-------|--------|-----------|--|--|-------|---------|
| | E | X | I | T | 7 | 9 | C | | | | | | | | | EM 2000 |
| 16.1 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.2 | 12.2 | 7.5 | 12.2 | 16.1 | | | | | 94 | 10,15 |
| | T | O | | | | | | | | | | | | | | EM 2000 |
| 156.3 | 10.6 | 10.1 | 351.1 | | | | | | | | | | | | 20.6 | 12 |
| | W | E | S | T | | | | | | | | | | | | EM 2000 |
| 73.2 | 15.9 | 2.2 | 9.2 | 9.6 | 7.4 | 410.4 | | | | | | | | | 44.4 | 15,10 |
| | N | O | R | T | H | | | | | | | | | | | EM 2000 |
| 248.9 | 12.2 | 3 | 10.8 | 9.2 | 9.2 | 8.1 | 226.7 | | | | | | | | 52.5 | 15,10 |
| | W | E | S | T | | | | | | | | | | | | EM 2000 |
| 438.4 | 15.9 | 2.2 | 9.2 | 9.6 | 7.4 | 45.3 | | | | | | | | | 44.4 | 15,10 |
| | T | O | L | L | | | | | | | | | | | | D 2000 |
| 79 | 6 | 7.4 | 6.2 | 5 | 424.5 | | | | | | | | | | 24.6 | 8 |
| | T | O | L | L | | | | | | | | | | | | D 2000 |
| 254.6 | 6 | 7.4 | 6.2 | 5 | 248.8 | | | | | | | | | | 24.6 | 8 |
| | R | o | c | k | f | o | r | d | | | | | | | | EM 2000 |
| 16.6 | 15.8 | 14.4 | 15.5 | 13.9 | 10.2 | 15.8 | 10.4 | 10.6 | 404.7 | | | | | | 106.7 | 1612 |
| | M | i | l | w | a | u | k | e | e | | | | | | | EM 2000 |
| 163.9 | 20.3 | 9.6 | 7.8 | 19.5 | 17 | 17 | 14.1 | 14.1 | 10.6 | 234.2 | | | | | 129.9 | 1612 |
| | O | H | a | r | e | | | | | | | | | | | EM 2000 |
| 366.4 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 85 | | | | | | | | 76.6 | 1612 |
| | 34 | M | I | L | E | | | | | | | | | | | EM 2000 |
| 388.6 | 25 | 15 | 12.1 | 4.8 | 9 | 7.4 | 66.1 | | | | | | | | 73.3 | 15,10 |
| | E | X | I | T | | | | | | | | | | | | E 2000 |
| 378.6 | 10.7 | 12.8 | 4.2 | 9 | 112.6 | | | | | | | | | | 36.7 | 12 |
| | O | N | L | Y | | | | | | | | | | | | E 2000 |
| 460.6 | 12.8 | 12.8 | 10 | 2.2 | 19.6 | | | | | | | | | | 47.9 | 12 |

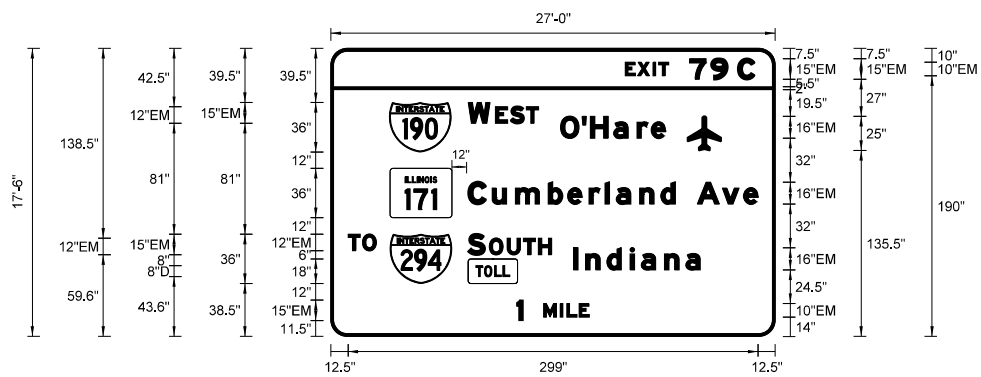


| | |
|---------------|--------------------|
| SIGN NUMBER | WB-190-BR-67A(NEW) |
| WIDTH x HGHT. | 15'-0" x 8'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ |
| LEGENDBORDER | COLOR: Green |
| | TYPE: ZZ |
| | COLOR: White/White |

| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|-------|----|------|------|
| AR_Type A | 315 | 135.2 | 22 | 22.6 | 35.6 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESIZE | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|--|--------|-----------|--|--|-------|---------|
| | E | X | I | T | s | o | | | | | | | | | | EM 2000 |
| 89.8 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.7 | 12.6 | 15 | | | | | | | 75.2 | 10,15 |
| | C | a | n | f | i | e | l | d | | | | | | | | EM 2000 |
| 16.8 | 16 | 17 | 15.4 | 11.7 | 8.2 | 15.5 | 8.2 | 10.6 | 60.8 | | | | | | 102.4 | 1612 |
| | R | o | a | d | | | | | | | | | | | | EM 2000 |
| 39.8 | 15.8 | 14.4 | 15.5 | 10.6 | 83.9 | | | | | | | | | | 56.3 | 1612 |

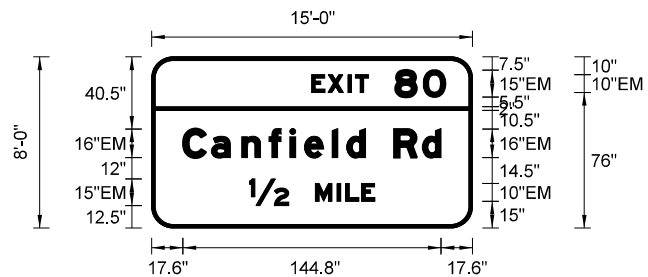


| | |
|---------------|---------------------------------------|
| SIGN NUMBER | WB-190-BR-81(NEW) |
| WIDTH x HGT. | 27'-0" x 17'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White /Black/White |

| SYMBOL | ROT | X | Y | WID | HT |
|------------------|-----|-------|-------|------|----|
| Airport | 0 | 260.2 | 135.6 | 24.4 | 25 |
| MI_1 | 0 | 43.2 | 134.5 | 45 | 36 |
| MI-100A-3-22-10D | 0 | 43.2 | 86.5 | 45 | 36 |
| MI_1 | 0 | 43.2 | 38.5 | 45 | 36 |

Letter spacings are to start of next letter

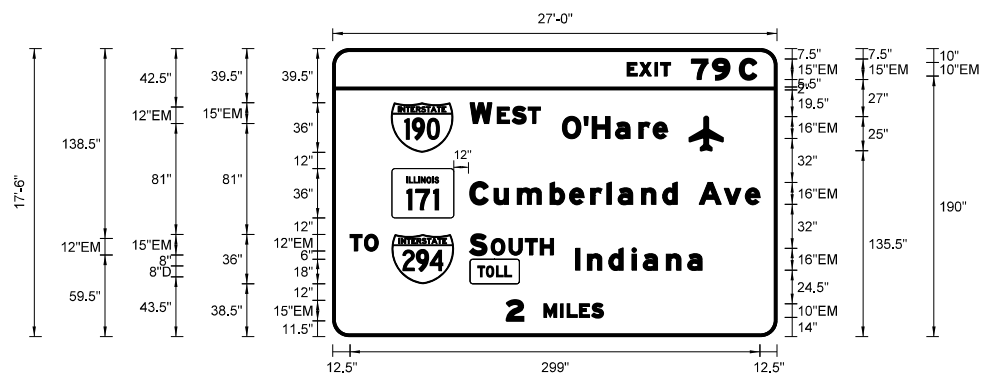
| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | | | | | |
|----------------------|------|------|-------|------|-------|-------|-------|------|------|------|--------|------------|---------|------|------|-------|---------|-------|
| E | X | I | T | 7 | 9 | C | | | | | | EM 2000 | | | | | | |
| 214.6 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 7.5 | 12.2 | 15 | | 94.4 | 10,15 | | | | | |
| W | E | S | T | | | | | | | | | | EM 2000 | | | | | |
| 100.2 | 15.9 | 4 | 11 | 11.5 | 8.9 | 172.5 | | | | | | 51.3 | 15,12 | | | | | |
| O | H | a | r | e | | | | | | | | | EM 2000 | | | | | |
| 167.5 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 79.9 | | | | | 76.6 | 1612 | | | | | |
| C | u | m | b | e | r | l | a | n | d | A | v | e | EM 2000 | | | | | |
| 100.2 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 12.5 | 211.4 | 1612 | |
| T | O | | | | | | | | | | | | | | | | EM 2000 | |
| 12.5 | 10.6 | 10.1 | 290.9 | | | | | | | | | | | | | | 20.6 | 12 |
| S | O | U | T | H | | | | | | | | | | | | | EM 2000 | |
| 100.1 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 162.9 | | | | | | | | | | 61 | 15,12 |
| I | n | d | i | a | n | a | | | | | | | | | | | EM 2000 | |
| 177.1 | 8.6 | 15.5 | 17 | 8.2 | 17 | 15.5 | 10.6 | 54.6 | | | | | | | | | 92.3 | 1612 |
| T | O | L | L | | | | | | | | | | | | | | D 2000 | |
| 105.9 | 6 | 7.4 | 6.2 | 5 | 193.6 | | | | | | | | | | | | 24.6 | 8 |
| 1 | M | I | L | E | | | | | | | | | | | | | EM 2000 | |
| 135.6 | 4.5 | 15 | 12.1 | 4.8 | 9 | 7.4 | 135.6 | | | | | | | | | | 52.8 | 15,10 |



| | |
|---------------|--------------------------------|
| SIGN NUMBER | WB-190-BR-82(NEW) |
| WIDTH x HGT. | 15'-0" x 8'-0" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White/White |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | | | | | |
|----------------------|-----|------|------|------|-----|------|------|------|----|------|--------|------------|---------|-------|--|--|---------|-------|
| E | X | I | T | 8 | 0 | | | | | | | | EM 2000 | | | | | |
| 89.8 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.7 | 12.6 | 15 | | | | | 75.2 | 10,15 | | | | |
| C | a | n | f | i | e | l | d | R | d | | | | | | | | EM 2000 | |
| 17.6 | 16 | 17 | 15.4 | 11.7 | 8.2 | 15.5 | 8.2 | 10.6 | 16 | 15.8 | 10.6 | 17.6 | | | | | 144.8 | 1612 |
| 12 | | | M | I | L | E | | | | | | | | | | | EM 2000 | |
| 55 | 22 | 15 | 12.1 | 4.8 | 9 | 7.4 | 64.8 | | | | | | | | | | 70.3 | 15,10 |

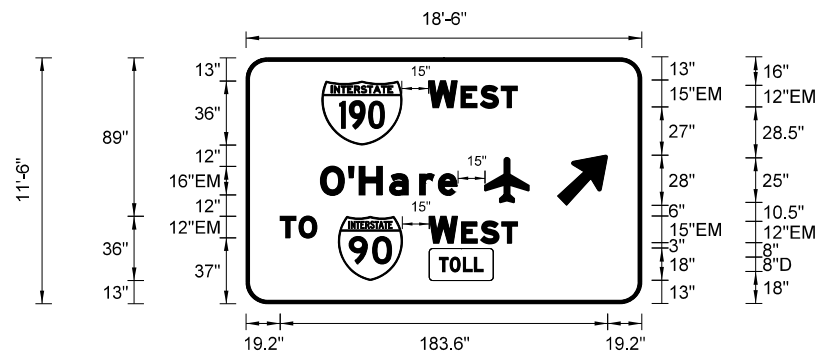


| | |
|---------------|---------------------------------------|
| SIGN NUMBER | WB-190-BR-83(NEW) |
| WIDTH x HGT. | 27'-0" x 17'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | BRIDGE MOUNTED |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: White /Black/White |

| SYMBOL | ROT | X | Y | WID | HT |
|------------------|-----|-------|-------|------|----|
| Airport | 0 | 260.2 | 135.5 | 24.4 | 25 |
| MI_1 | 0 | 43.2 | 134.5 | 45 | 36 |
| MI-100A-3-22-10D | 0 | 43.2 | 86.5 | 45 | 36 |
| MI_1 | 0 | 43.2 | 38.5 | 45 | 36 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | | | | | |
|----------------------|------|------|-------|------|-------|-------|-------|------|------|------|--------|------------|---------|-------|------|-------|---------|-------|
| E | X | I | T | 7 | 9 | C | | | | | | | EM 2000 | | | | | |
| 214.6 | 9.1 | 11.2 | 4.2 | 7.4 | 15 | 15.8 | 12.2 | 7.5 | 12.1 | 15 | | | 94.4 | 10,15 | | | | |
| W | E | S | T | | | | | | | | | | EM 2000 | | | | | |
| 100.2 | 15.9 | 4 | 11 | 11.5 | 8.9 | 172.5 | | | | | | | 51.3 | 15,12 | | | | |
| O | H | a | r | e | | | | | | | | | EM 2000 | | | | | |
| 167.5 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 79.9 | | | | | | 76.7 | 1612 | | | | |
| C | u | m | b | e | r | l | a | n | d | A | v | e | EM 2000 | | | | | |
| 100.2 | 17.4 | 17 | 24 | 14.1 | 15.5 | 11.8 | 8.2 | 17 | 15.5 | 10.6 | 16 | 18.2 | 15.5 | 10.6 | 12.5 | 211.4 | 1612 | |
| T | O | | | | | | | | | | | | | | | | EM 2000 | |
| 12.5 | 10.6 | 10.1 | 290.9 | | | | | | | | | | | | | | 20.6 | 12 |
| S | O | U | T | H | | | | | | | | | | | | | EM 2000 | |
| 100.1 | 12.2 | 3.2 | 13 | 11.9 | 11 | 9.7 | 162.9 | | | | | | | | | | 61 | 15,12 |
| I | n | d | i | a | n | a | | | | | | | | | | | EM 2000 | |
| 177.1 | 8.6 | 15.5 | 17 | 8.2 | 17 | 15.5 | 10.6 | 54.6 | | | | | | | | | 92.3 | 1612 |
| T | O | L | L | | | | | | | | | | | | | | D 2000 | |
| 105.9 | 6 | 7.4 | 6.2 | 5 | 193.6 | | | | | | | | | | | | 24.6 | 8 |
| 2 | M | I | L | E | S | | | | | | | | | | | | EM 2000 | |
| 126.8 | 12.2 | 15 | 12.1 | 4.8 | 9 | 9.2 | 8.1 | 26.8 | | | | | | | | | 70.4 | 15,10 |

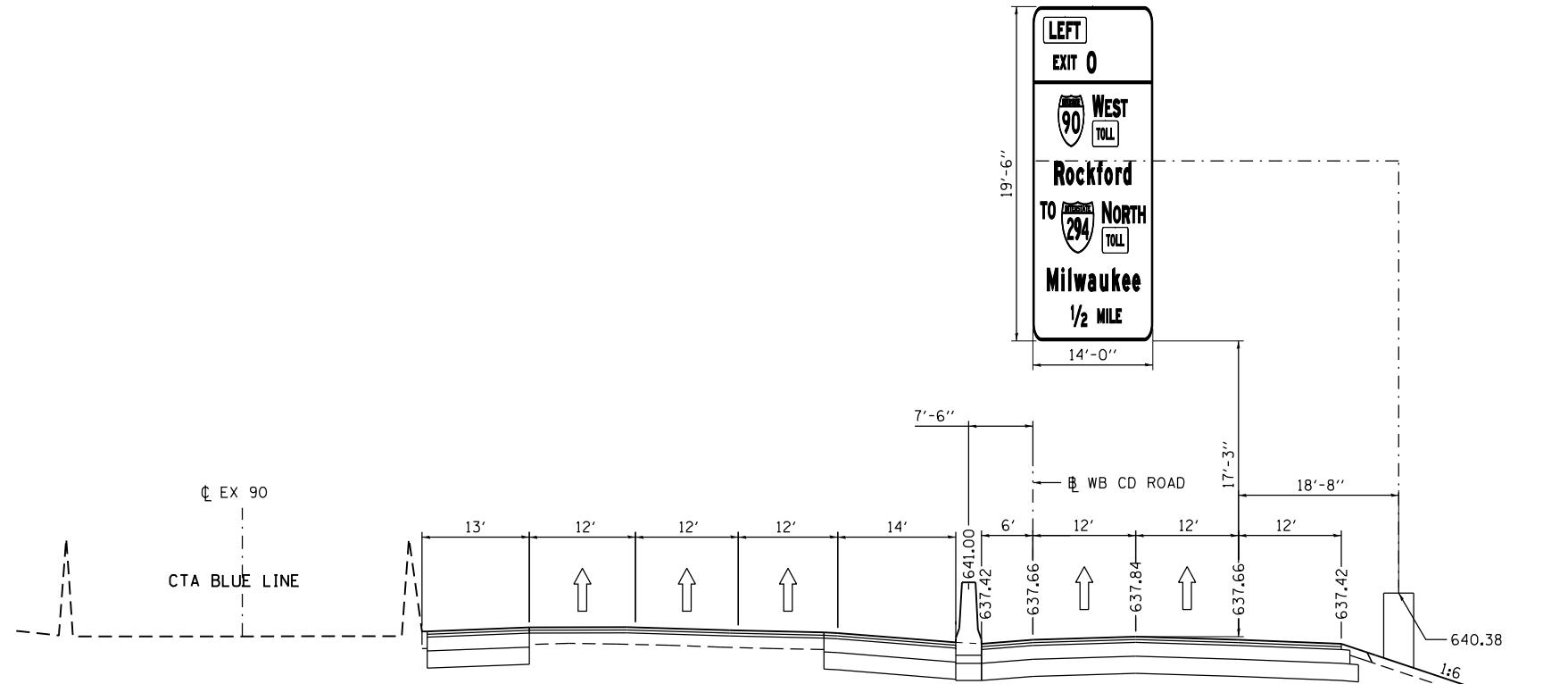


| | |
|---------------|---------------------------------------|
| SIGN NUMBER | WB-CRD-BS-31(NEW) |
| WIDTH x HGT. | 18'-6" x 11'-6" |
| BORDER WIDTH | 2" |
| CORNER RADIUS | 12" |
| MOUNTING | Ground |
| BACKGROUND | TYPE: ZZ COLOR: Green |
| LEGEND/BORDER | TYPE: ZZ COLOR: Black /White/White |

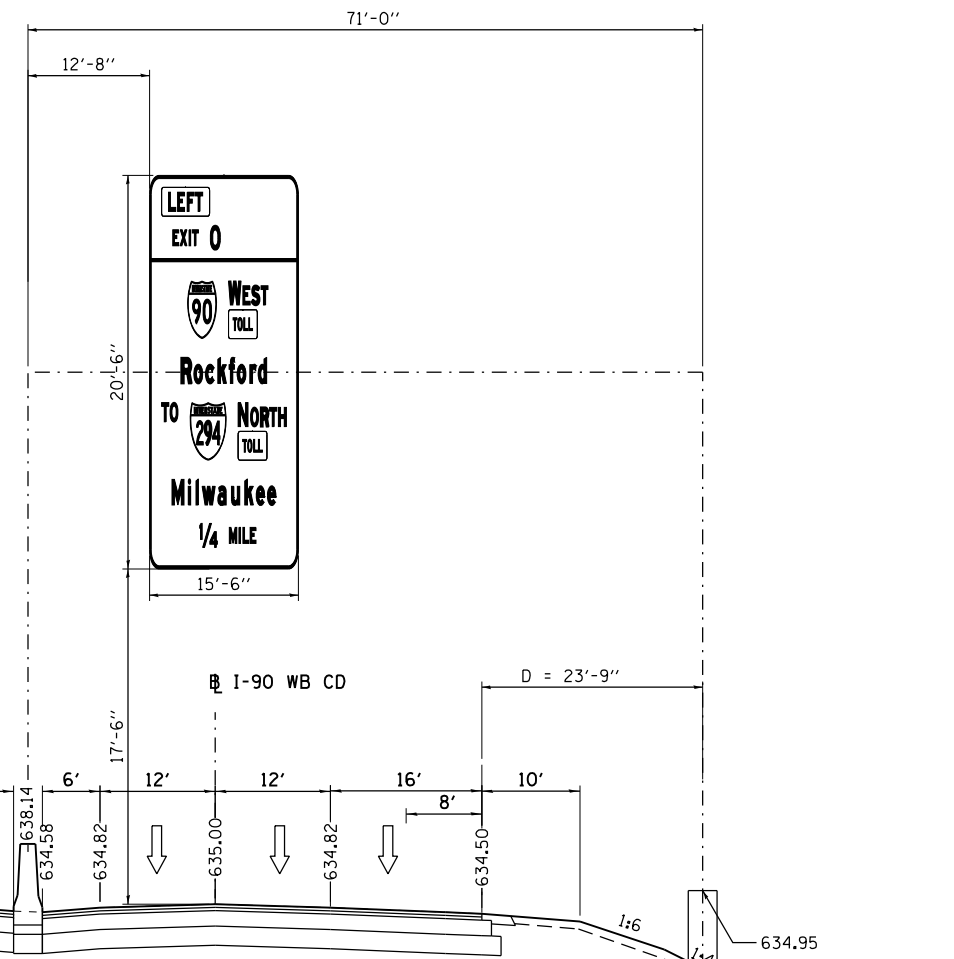
| SYMBOL | ROT | X | Y | WID | HT |
|-----------|-----|-------|------|------|------|
| MI_1 | 0 | 42.6 | 89 | 45 | 36 |
| Airport | 0 | 134.4 | 56.5 | 24.4 | 25 |
| AR_Type A | 315 | 174.9 | 55 | 22.6 | 35.6 |
| MI_1 | 0 | 61.8 | 13 | 36 | 36 |

Letter spacings are to start of next letter

| LETTER POSITIONS (X) | | | | | | | | | | | LENGTH | SERIESSIZE | | |
|----------------------|------|------|-------|------|------|------|-------|--|--|--|--------|------------|---------|-------|
| W | E | S | T | | | | | | | | | | EM 2000 | |
| 102.6 | 15.9 | 2.2 | 11 | 11.5 | 8.9 | 69.9 | | | | | | | 49.5 | 15,12 |
| O | H | a | r | e | | | | | | | | | EM 2000 | |
| 41.8 | 15.7 | 6.1 | 17 | 17 | 10.4 | 10.6 | 103.6 | | | | | | 76.6 | 1612 |
| T | O | | | | | | | | | | | | EM 2000 | |
| 19.2 | 10.6 | 10.1 | 182.2 | | | | | | | | | | 20.6 | 12 |
| W | E | S | T | | | | | | | | | | EM 2000 | |
| 102.8 | 15.9 | 2.2 | 11 | 11.5 | 8.9 | 69.7 | | | | | | | 49.5 | 15,12 |
| T | O | L | L | | | | | | | | | | D 2000 | |
| 108.5 | 6 | 7.4 | 6.2 | 5 | 88.9 | | | | | | | | 24.6 | 8 |



STRUCTURE NO. WB-CD-CA-24(NEW)
 STRUCTURE NO. WB-CD-CA-23(NEW)
 PROPOSED SIGN STRUCTURE - CANTILEVER
 WB I-90 STA. 3032+92
 I-90 WB CD STA. 33+50
 (LOOKING WEST)



STRUCTURE NO. WB-CD-TR-13(NEW)
 STRUCTURE NO. WB-CD-TR-14(NEW)
 STRUCTURE NO. WB-CD-TR-15(NEW)
 PROPOSED SIGN STRUCTURE - TRUSS
 WB I-90 STA. 3020+18
 WB CD STA. 46+25
 (LOOKING WEST)



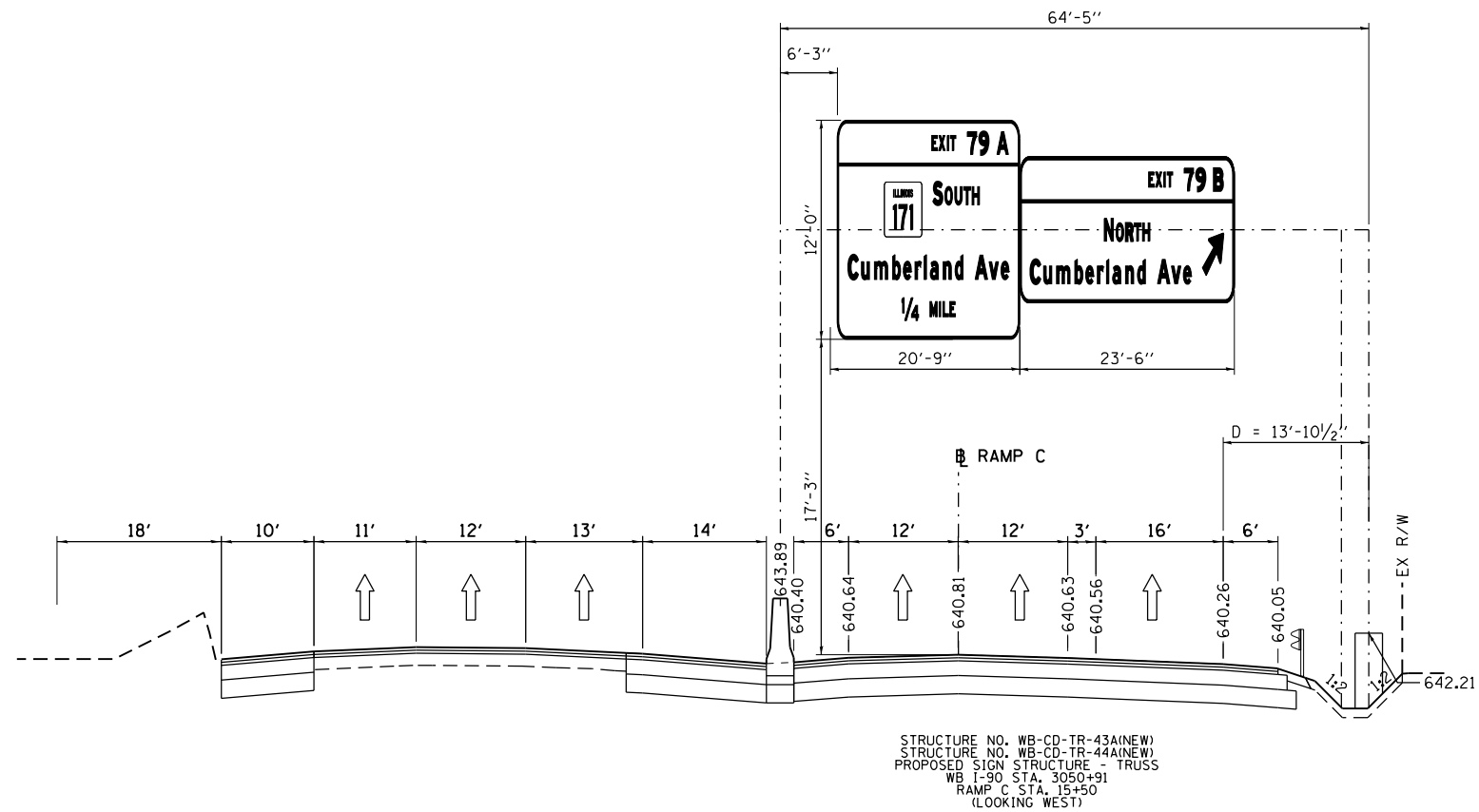
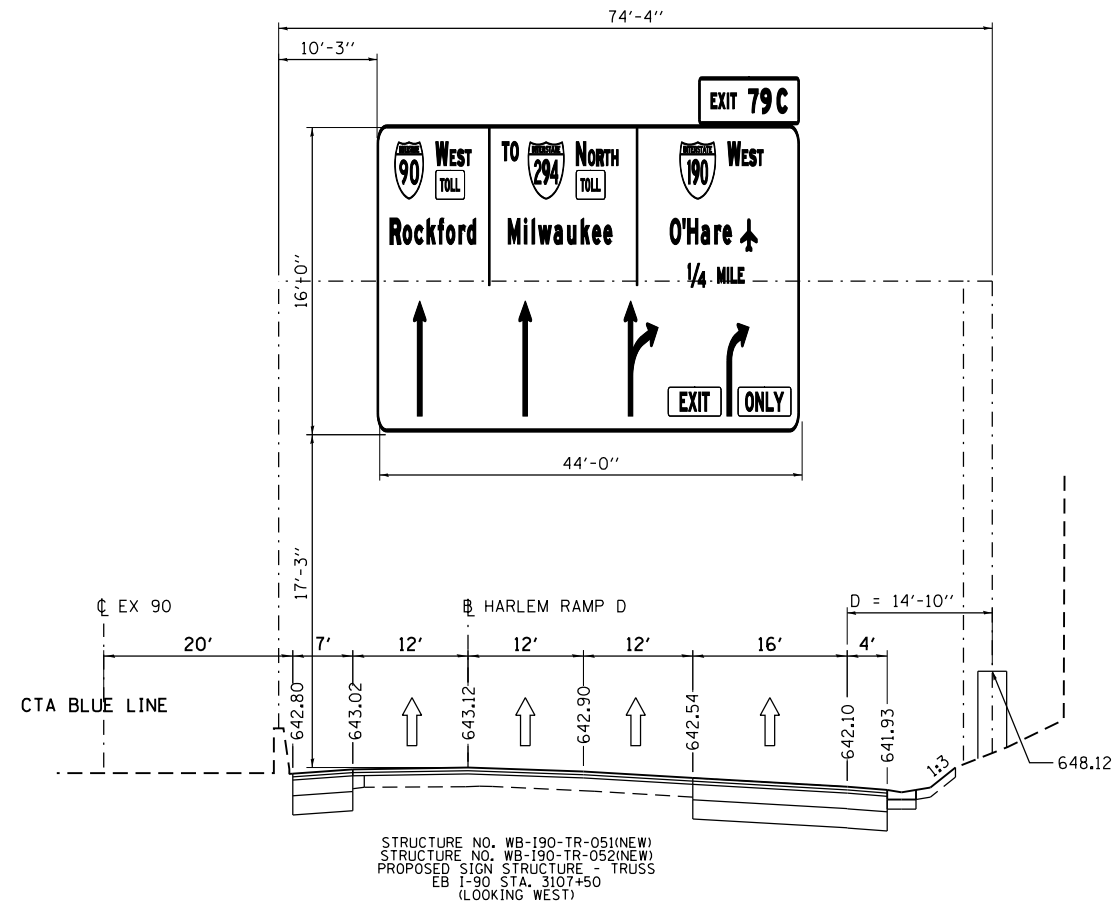
| | | |
|----------------------|-----------------|-------------|
| USER NAME = *USER* | DESIGNED MMK | REVISED - - |
| | DRAWN MMK | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED MM | REVISED - |
| PLOT DATE = *DATE* | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 OVERHEAD SIGN STRUCTURES
 SIGN LAYOUT

| | | | | |
|---------------------------|-------------------|--------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 270 |
| | | | CONTRACT NO. 60Y39 | |
| ILLINOIS FED. AID PROJECT | | | | |

SGN-DET-01



| | | |
|-----------------------|-----------------|-------------|
| USER NAME = \$USER* | DESIGNED MMK | REVISED - - |
| | DRAWN MMK | REVISED - |
| PLOT SCALE = \$SCALE* | CHECKED MM | REVISED - |
| PLOT DATE = \$DATE* | DATE 01/19/2018 | REVISED - |

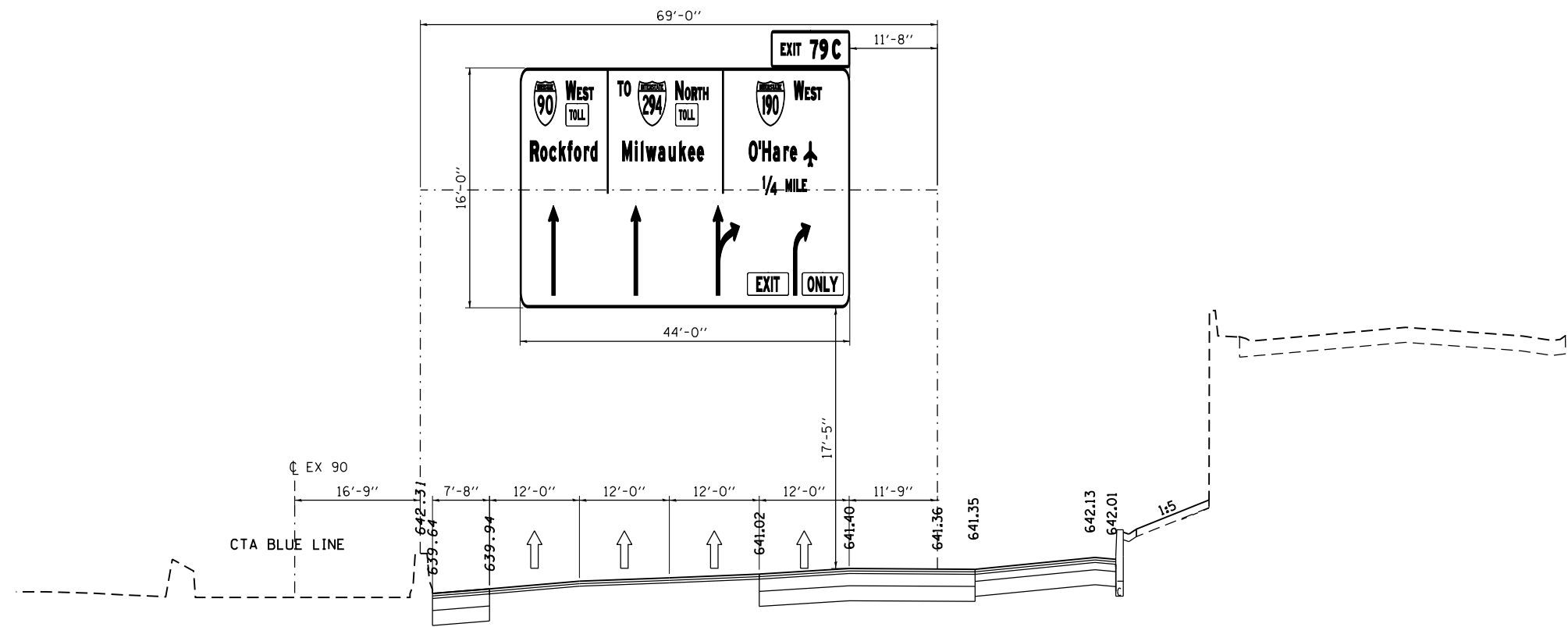
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 OVERHEAD SIGN STRUCTURES
 SIGN LAYOUT

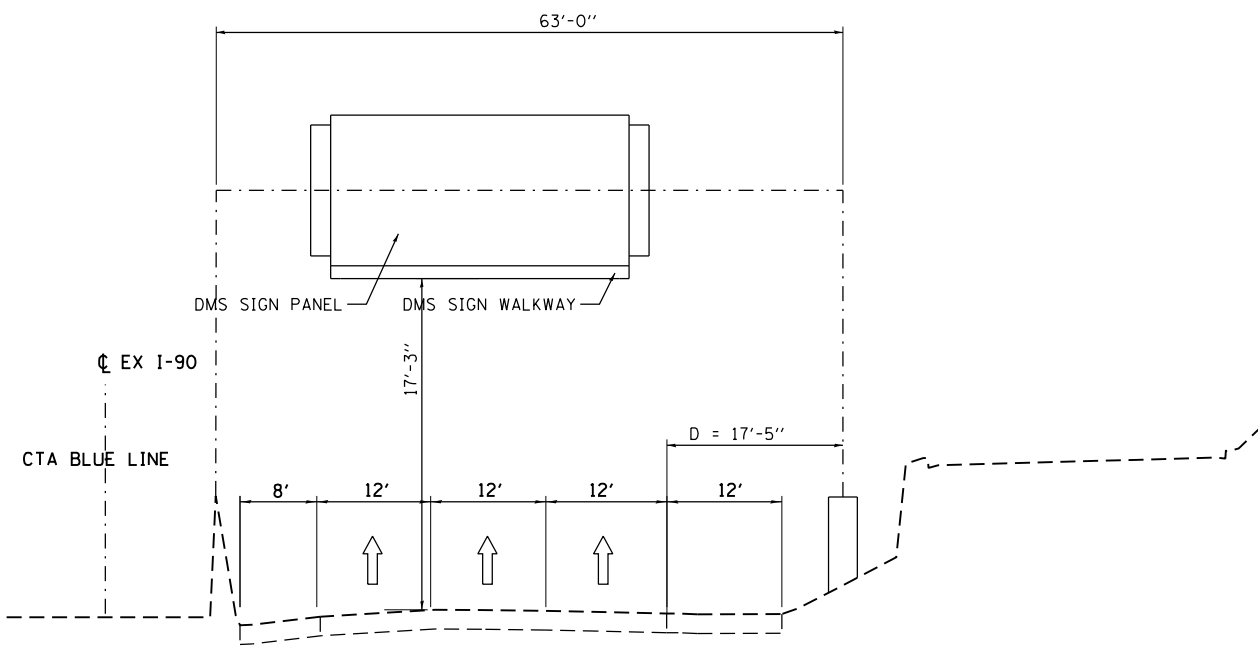
SCALE: N.T.S. SHEET NO. 2 OF 3 SHEETS STA. NA TO STA. NA

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 271 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SGN-DET-02



STRUCTURE NO. WB-190-TR-051(NEW)
 PROPOSED SIGN STRUCTURE - TRUSS
 EB I-90 STA. 3087+10
 (LOOKING WEST)



STRUCTURE NO. IS0161090L091.4
 PROPOSED SIGN STRUCTURE - TRUSS
 WB I-90 STA. 3128+87
 (LOOKING WEST)



| | | |
|----------------------|-----------------|-------------|
| USER NAME = *USER* | DESIGNED MMK | REVISED - - |
| | DRAWN MMK | REVISED - |
| PLOT SCALE = *SCALE* | CHECKED MM | REVISED - |
| PLOT DATE = *DATE* | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE
 OVERHEAD SIGN STRUCTURES
 SIGN LAYOUT

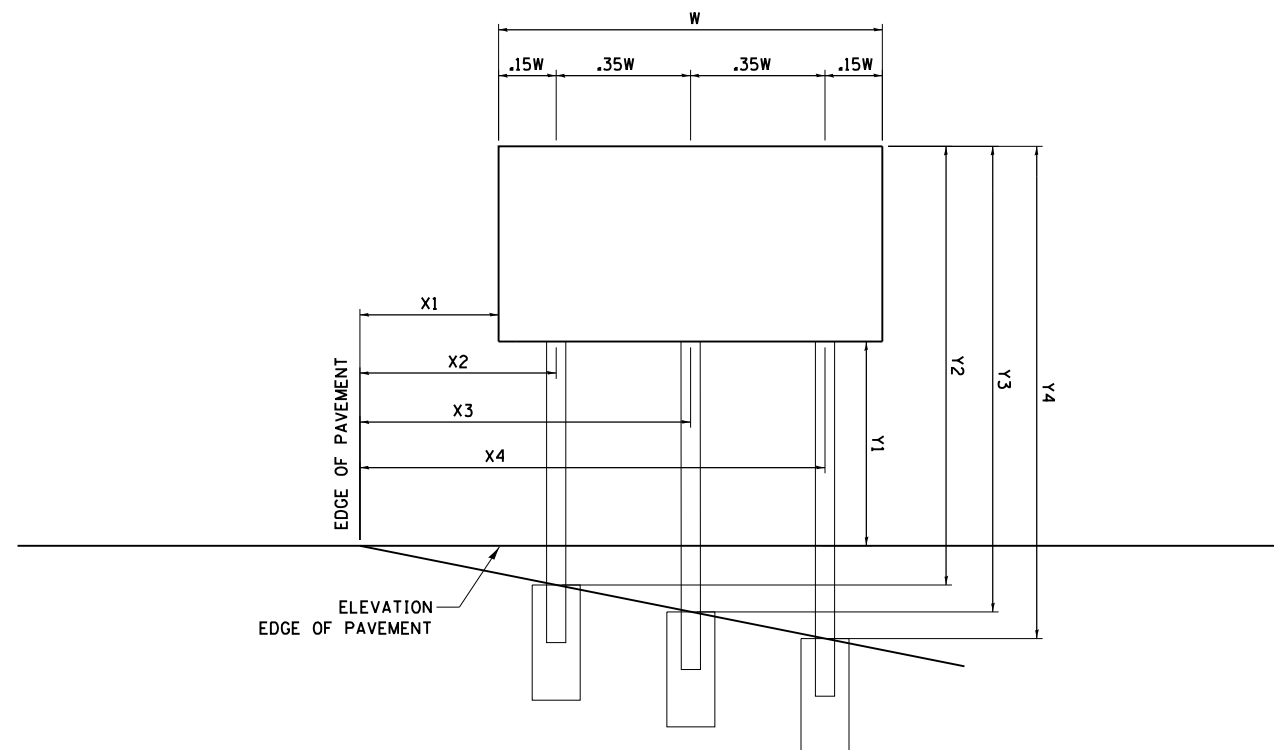
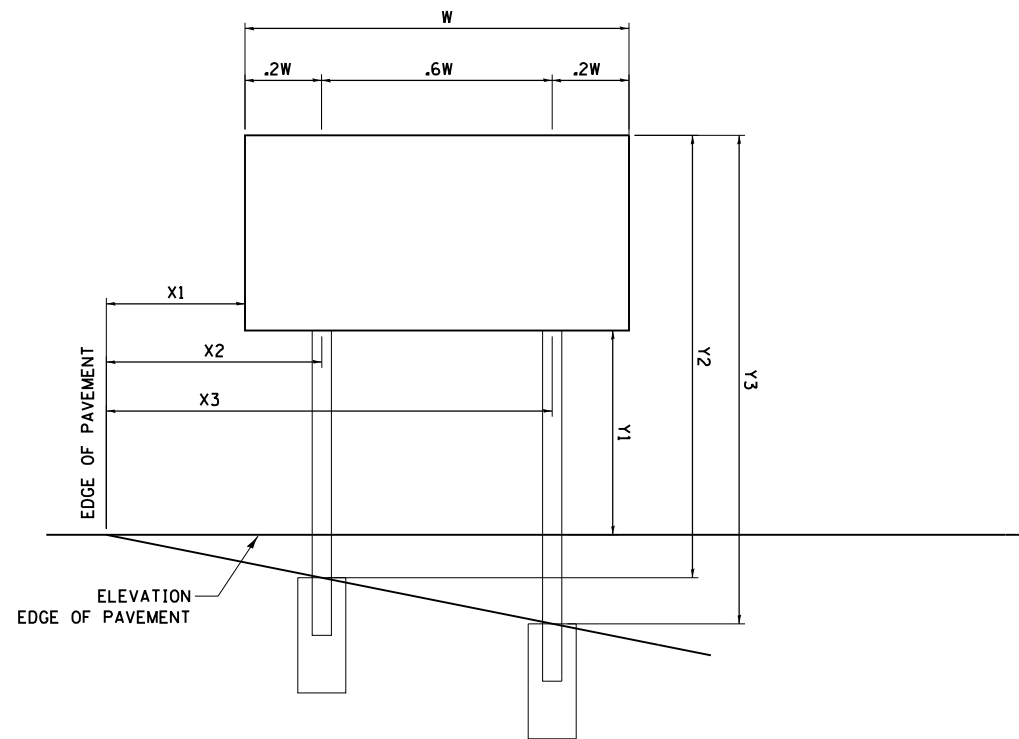
SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA. NA TO STA. NA

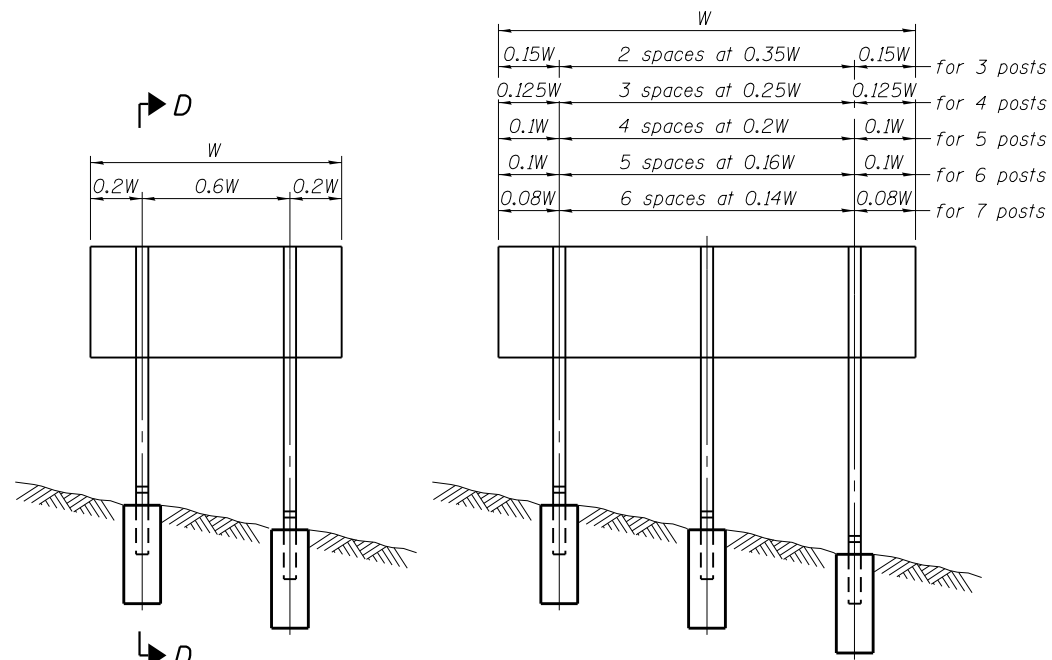
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 272 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SGN-DET-03

SIGN INSTALLATION SCHEDULE

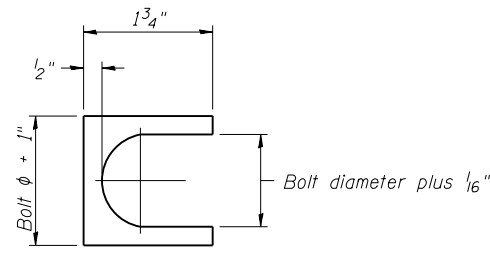
| PROPOSED LOCATION | SIGN NUMBER | SIZE | | SIGN PANEL | | | SUPPORT | | | | | | | | | | | | | FOUNDATION | |
|-------------------|---------------------|-----------|------------|------------|-----------|-----------|---------|-------|-------|----|-------|-------|-------|----|-----|--------|------------|-----------|---------------|-------------|--|
| | | WIDTH FT. | HEIGHT FT. | TYPE-1 SF | TYPE-2 SF | TYPE-3 SF | X1 | X2 | X3 | X4 | Y1 | Y2 | Y3 | Y4 | NO. | POST | LENGTH FT. | WEIGHT LB | MIN. DEPTH FT | CONCRETE CY | |
| 2993+36.00 | WB-I90-BS-01B(REL) | 10 | 6 | | | 60 | 37 | 39 | 45 | | 7 | 13.32 | 12.75 | | 2 | W6X15 | 31.07 | 466.05 | 2.5 | 1.4 | |
| 2995+36.00 | WB-I90-WP-01D(REL) | | | | | | | | | | | | | | | | | | | | |
| 2997+36.00 | WB-I90-BS-01F(REL) | 17 | 7 | | | 119 | 39 | 42.4 | 52.6 | | 7 | 14.22 | 13.08 | | 2 | W6X15 | 32.3 | 484.5 | 2.5 | 1.4 | |
| 2999+86.00 | WB-I90-BS-01H(REL) | 14 | 10 | | | 140 | 38 | 40.8 | 49.2 | | 7 | 17.31 | 16.72 | | 2 | W8X18 | 39.03 | 702.54 | 2.5 | 1.4 | |
| 1010+20.00 | WB-CD-WP-.03(NEW) | 6.5 | 5 | | | 32.5 | 16.85 | 18.15 | 22.05 | | 7 | 12.73 | 12.88 | | 2 | | | | | | |
| 1000+15.00 | WB-CD-WP-.10A(NEW) | 8.5 | 1.5 | | 12.75 | | 30 | 31.7 | 36.8 | | 7 | 9.75 | 8.91 | | 2 | | | | | | |
| 50+43.00 | WB-CD-BS-.12(NEW) | 19 | 5 | | | 95 | 20.2 | 24 | 35.4 | | 7 | 14.69 | 14.35 | | 2 | W6X15 | 34.04 | 510.6 | 2.5 | 1.4 | |
| 30+70.00 | WB-CD-WP-.25A(NEW) | 9 | 5 | | | 45 | 11 | 12.8 | 18.2 | | 7 | 13.81 | 14.41 | | 2 | | | | | | |
| 18+35.00 | WB-CD-WP-.38A(NEW) | 9 | 5 | | | 45 | 14 | 15.8 | 21.2 | | 7 | 12.54 | 12.7 | | 2 | | | | | | |
| 3066+00.00 | WB-I90-BS-48A(NEW) | 18 | 6.5 | | | 117 | 21 | 24.6 | 35.4 | | 10.64 | 13.78 | 13.5 | | 2 | W6X15 | 32.28 | 484.2 | 2.5 | 1.4 | |
| 3079+00.00 | WB-I90-BS-53A(NEW) | 12 | 11 | | | 132 | 14.33 | 16.73 | 23.93 | | 14.21 | 18.44 | 16 | | 2 | W8X18 | 39.44 | 709.92 | 2.5 | 1.4 | |
| 900+21 | WB-CRD-BS-.31(NEW) | 18.5 | 11.5 | | | 212.75 | 7.53 | 11.23 | 22.33 | | 7 | 19.47 | 20.7 | | 2 | W14X38 | 47.17 | 1792.46 | 3.5 | 4.18 | |
| 800+55 | WB-CRCC-BS-26A(NEW) | 18.5 | 11.5 | | | 212.75 | 8 | 11.7 | 22.8 | | 7 | 19.47 | 20.44 | | 2 | W14X38 | 46.91 | 1782.58 | 3.5 | 4.18 | |
| 12+00.00 | WB-CD-BS-86(NEW) | 12 | 11 | | | 132 | 22.82 | 25.22 | 32.42 | | 7 | 20.82 | 20.03 | | 2 | W10X22 | 46.85 | 1030.7 | 3 | 2.36 | |





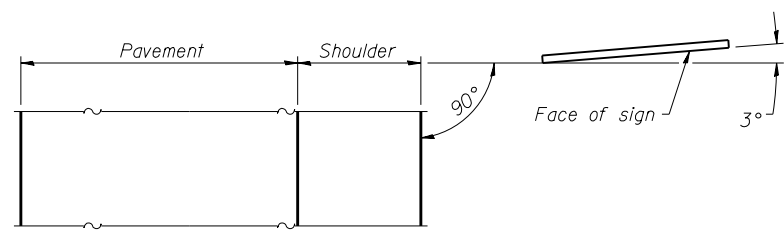
ELEVATION

| | | | |
|--------|-------------------|--------|-------------|
| 0.15W | 2 spaces at 0.35W | 0.15W | for 3 posts |
| 0.125W | 3 spaces at 0.25W | 0.125W | for 4 posts |
| 0.1W | 4 spaces at 0.2W | 0.1W | for 5 posts |
| 0.1W | 5 spaces at 0.16W | 0.1W | for 6 posts |
| 0.08W | 6 spaces at 0.14W | 0.08W | for 7 posts |

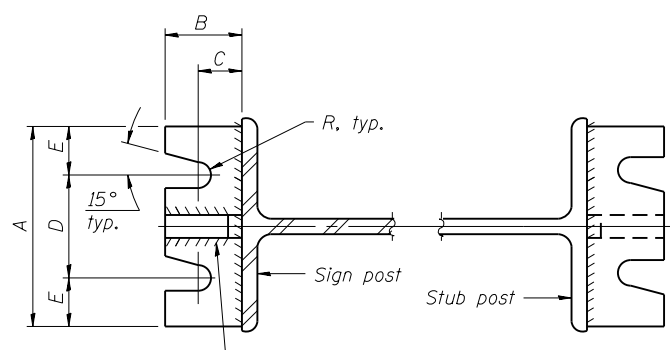


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

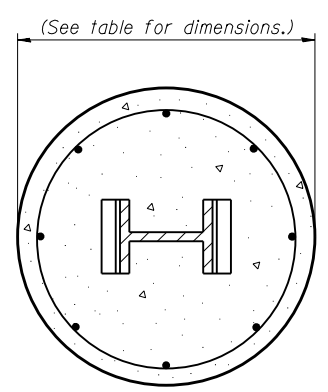


LOCATION SKETCH

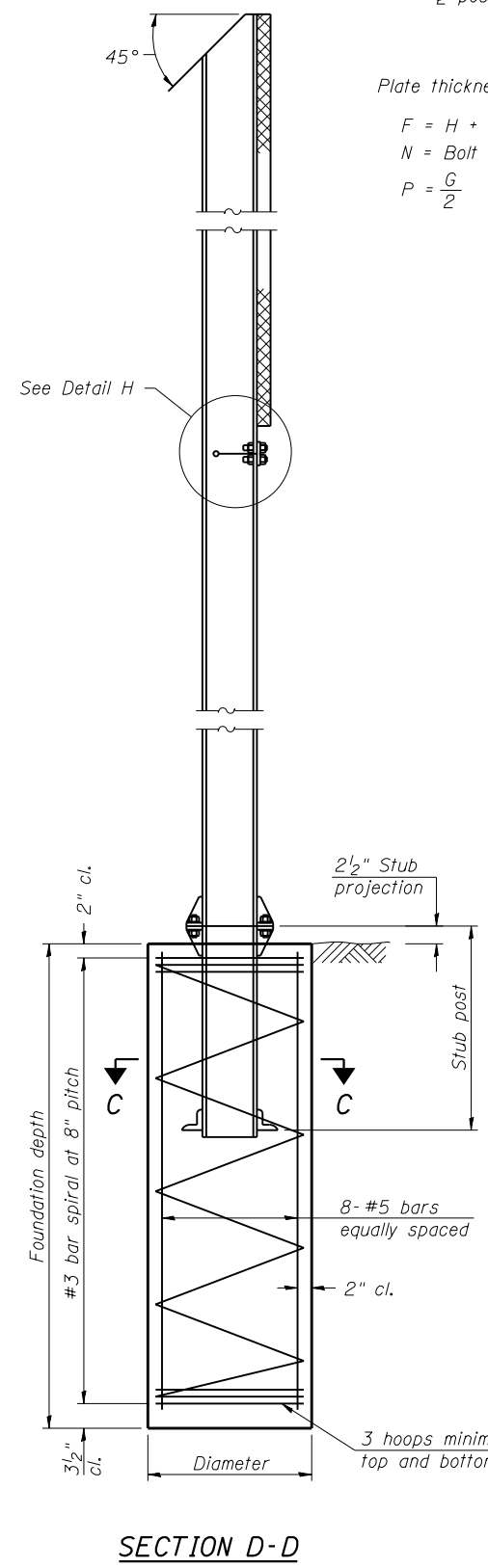


SECTION A-A

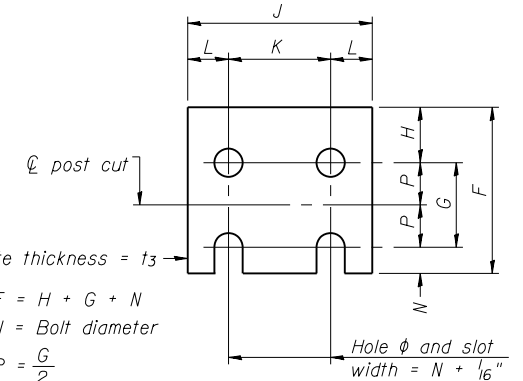
SECTION B-B



SECTION C-C

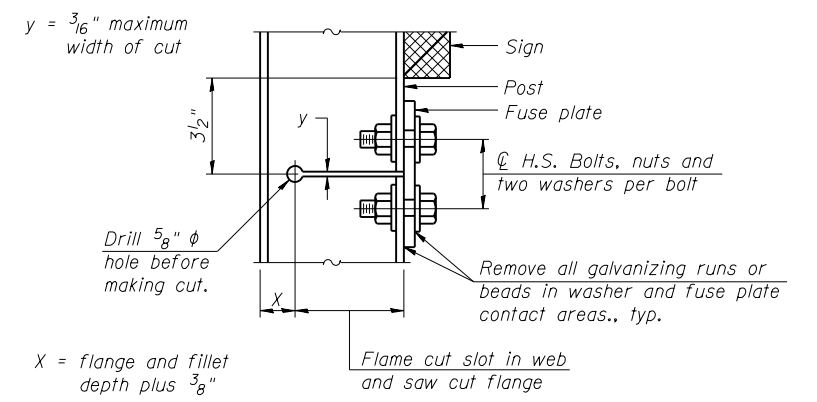


SECTION D-D

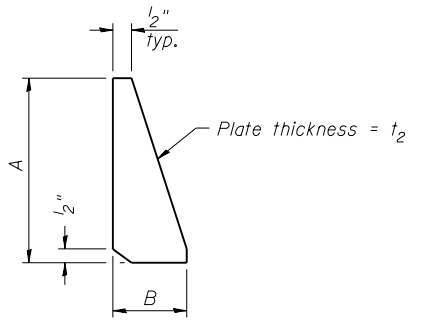


FUSE PLATE DETAIL
(Install with notches down.)

| N = Bolt Diameter | G | H |
|-------------------|--------|--------|
| 1/2" | 2" | 1 1/8" |
| 5/8" | 2 1/4" | 1 1/4" |
| 3/4" | 2 1/2" | 1 3/8" |
| 7/8" | 2 3/4" | 1 1/2" |
| 1" | 3" | 1 5/8" |
| 1 1/8" | 3 1/4" | 1 3/4" |
| 1 1/4" | 3 1/2" | 1 7/8" |



DETAIL H



STIFFENER PLATE DETAIL
Diameter

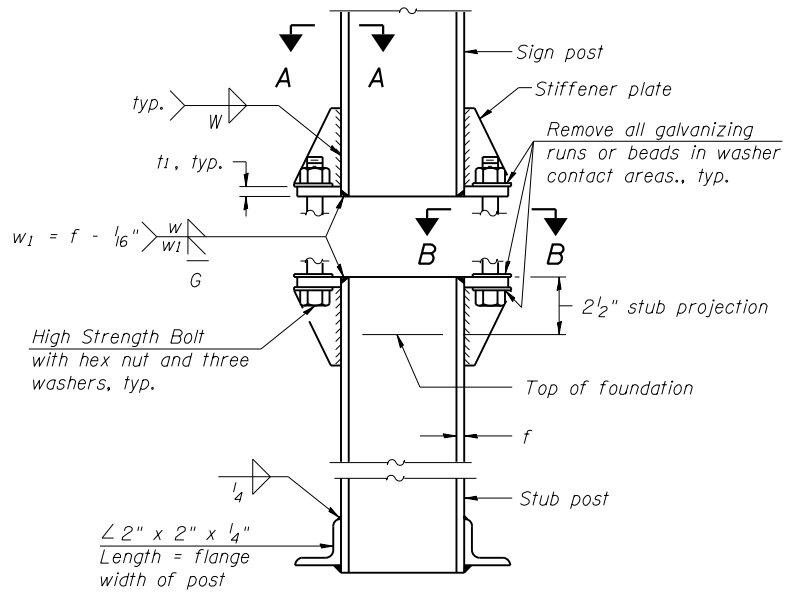
GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.



ELEVATION SIGN POST & STUB POST

BAW-A-1

6-1-12

(Sheet 1 of 2)



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED MMK | REVISED - |
| PLOT SCALE = 0.25" = 1'-0" | CHECKED MAM | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN MMK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - BREAK-AWAY
WIDE FLANGE STEEL SIGN POST DETAILS

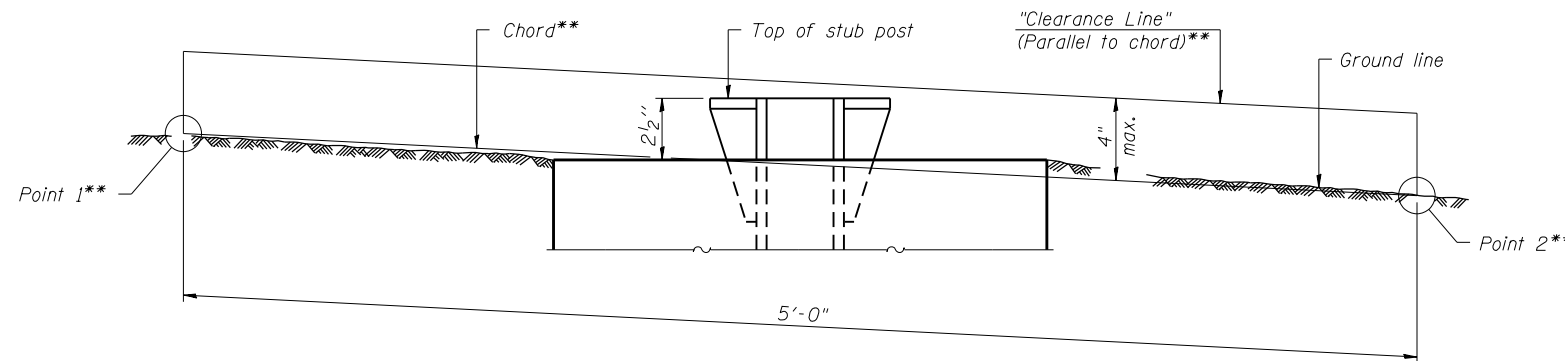
SHEET NO. 1 OF 2 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 274 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| POST | CONCRETE FOUNDATION TABLE | | | | | | | POST TO STUB POST CONNECTION DATA | | | | | | | | | | FUSE PLATE DATA | | | | |
|--------|---------------------------|-----------------|------------------------|----------------------|----------------------|---------|------------------|-----------------------------------|---------------|--------|--------|--------|--------|----------------|----------------|------|--------|-----------------|--------|--------|----------------|----------|
| | Foundation | | | Reinforcement | | | Stub Post Length | Bolt Size | A | B | C | D | E | t ₁ | t ₂ | R | W | J | K | L | t ₃ | |
| | Diameter | * Minimum Depth | Concrete (1) cu. yds.) | Vertical Bars Length | Bar Spirals Diameter | Length | | | | | | | | | | | | | | | | lbs. (2) |
| W6x9 | 2'-0" | 6'-0" | 0.70 | 5'-9" | 1'-8 1/2" | 79'-0" | 78 | 2'-3" | 5/8" x 3/4" | 6" | 2 1/4" | 1 1/4" | 3 1/2" | 1 1/4" | 3/4" | 1/2" | 11/32" | 1/4" | 4" | 2 1/4" | 7/8" | 1/4" |
| W6x15 | 2'-0" | 6'-0" | 0.70 | 5'-9" | 1'-8 1/2" | 79'-0" | 78 | 2'-6" | 5/8" x 3/4" | 6" | 2 1/4" | 1 1/4" | 3 1/2" | 1 1/4" | 3/4" | 1/2" | 11/32" | 1/4" | 6" | 3 1/2" | 1 1/4" | 3/8" |
| W8x18 | 2'-0" | 6'-0" | 0.70 | 5'-9" | 1'-8 1/2" | 79'-0" | 78 | 2'-6" | 3/4" x 3 3/4" | 6" | 2 1/2" | 1 3/8" | 3 1/4" | 1 3/8" | 1" | 1/2" | 13/32" | 5/16" | 5 1/4" | 2 3/4" | 1 1/4" | 3/8" |
| W10x22 | 2'-6" | 6'-6" | 1.18 | 6'-3" | 2'-2 1/2" | 105'-0" | 92 | 3'-0" | 3/4" x 3 3/4" | 6" | 2 1/2" | 1 3/8" | 3 1/4" | 1 3/8" | 1" | 1/2" | 13/32" | 5/16" | 5 3/4" | 2 3/4" | 1 1/2" | 1/2" |
| W10x26 | 2'-6" | 7'-0" | 1.27 | 6'-9" | 2'-2 1/2" | 112'-0" | 98 | 3'-0" | 7/8" x 4" | 7" | 2 3/4" | 1 1/2" | 4" | 1 1/2" | 1" | 3/4" | 15/32" | 3/8" | 5 3/4" | 2 3/4" | 1 1/2" | 5/8" |
| W12x26 | 2'-6" | 7'-9" | 1.41 | 7'-6" | 2'-2 1/2" | 119'-0" | 107 | 3'-0" | 7/8" x 4" | 7" | 2 3/4" | 1 1/2" | 4" | 1 1/2" | 1" | 3/4" | 15/32" | 3/8" | 6 1/2" | 3 1/2" | 1 1/2" | 5/8" |
| W14x30 | 3'-0" | 7'-3" | 1.90 | 7'-0" | 2'-8 1/2" | 145'-0" | 113 | 3'-0" | 7/8" x 4" | 7" | 2 3/4" | 1 1/2" | 4" | 1 1/2" | 1" | 3/4" | 15/32" | 3/8" | 6 3/4" | 3 1/2" | 1 5/8" | 1/2" |
| W14x38 | 3'-0" | 8'-0" | 2.09 | 7'-9" | 2'-8 1/2" | 153'-0" | 122 | 3'-6" | 1" x 4 1/2" | 7 1/2" | 3" | 1 3/4" | 4" | 1 3/4" | 1 1/4" | 3/4" | 17/32" | 3/8" | 6 3/4" | 3 1/2" | 1 5/8" | 1/2" |
| W16x45 | 3'-0" | 8'-6" | 2.23 | 8'-3" | 2'-8 1/2" | 162'-0" | 130 | 3'-6" | 1" x 4 1/2" | 7 1/2" | 3" | 1 3/4" | 4" | 1 3/4" | 1 1/4" | 3/4" | 17/32" | 3/8" | 7" | 3 1/2" | 1 3/4" | 1/2" |

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

| POST | FUSE PLATE BOLT SIZE | | | | | | | | | | | | | | | | | | | | | |
|--------|----------------------|---------------|---------------|---------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|-------------|
| | Sign Height | | | | | | | | | | | | | | | | | | | | | |
| | 4'-0" | 5'-0" | 6'-0" | 7'-0" | 8'-0" | 9'-0" | 10'-0" | 11'-0" | 12'-0" | 13'-0" | 14'-0" | 15'-0" | 16'-0" | 17'-0" | 18'-0" | 19'-0" | 20'-0" | 21'-0" | 22'-0" | 23'-0" | 24'-0" | |
| W6x9 | 1/2" x 1 1/2" | 1/2" x 1 1/2" | 1/2" x 1 1/2" | 1/2" x 1 1/2" | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| W6x15 | 1/2" x 1 3/4" | 1/2" x 1 3/4" | 1/2" x 1 3/4" | 5/8" x 2" | 5/8" x 2" | 3/4" x 2" | 3/4" x 2" | 3/4" x 2" | 3/4" x 2" | 3/4" x 2" | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| W8x18 | 1/2" x 1 3/4" | 1/2" x 1 3/4" | 1/2" x 1 3/4" | 1/2" x 1 3/4" | 5/8" x 2" | 5/8" x 2" | 3/4" x 2" | 3/4" x 2" | 3/4" x 2" | 3/4" x 2" | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| W10x22 | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2" | 5/8" x 2" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | --- | --- | --- | --- | --- | --- | --- | |
| W10x26 | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2 1/4" | 5/8" x 2 1/4" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | --- | --- | --- | --- | --- | --- | --- | |
| W12x26 | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2 1/4" | 5/8" x 2 1/4" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | --- | --- | --- | --- | --- | --- | |
| W14x30 | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2" | 5/8" x 2" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | 3/4" x 2 1/4" | --- | --- | --- | |
| W14x38 | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2 1/4" | 5/8" x 2 1/4" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 7/8" x 2 1/2" | 7/8" x 2 1/2" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" |
| W16x45 | --- | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 1/2" x 2" | 5/8" x 2 1/4" | 5/8" x 2 1/4" | 5/8" x 2 1/4" | 3/4" x 2 1/2" | 3/4" x 2 1/2" | 7/8" x 2 1/2" | 7/8" x 2 1/2" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" | 1" x 2 3/4" |



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

6-1-12

(Sheet 2 of 2)

HNTB

| | | |
|-----------------------------|-----------------|-----------|
| USER NAME = ikelite | DESIGNED MMK | REVISED - |
| | CHECKED MAM | REVISED - |
| PLOT SCALE = 0.2" = 1' - 0" | DRAWN MMK | REVISED - |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - BREAK-AWAY
WIDE FLANGE STEEL SIGN POST DETAILS

SHEET NO. 2 OF 2 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 275 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
F_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

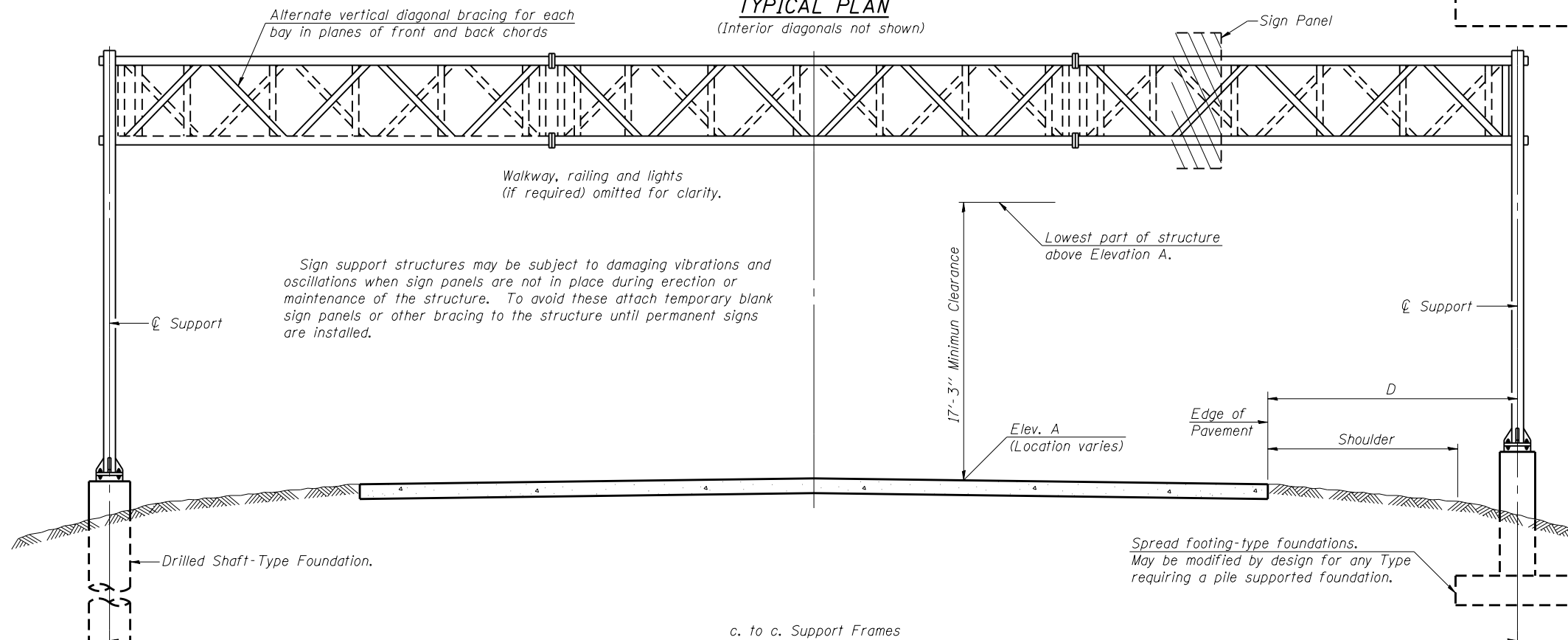
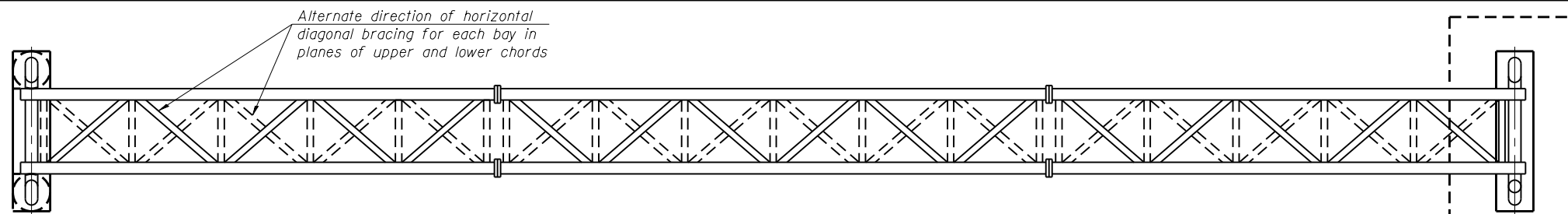
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|---|----------|-------|
| OVERHEAD SIGN STRUCTURE SPAN TYPE I-A | Foot | 65 |
| OVERHEAD SIGN STRUCTURE SPAN TYPE III-A | Foot | 278 |
| OVERHEAD SIGN STRUCTURE WALKWAY TYPE A | Foot | 8 |
| CONCRETE FOUNDATIONS | Cu. Yds. | 32.2 |
| DRILLED SHAFT CONCRETE FOUNDATIONS | Cu. Yds. | 90.9 |



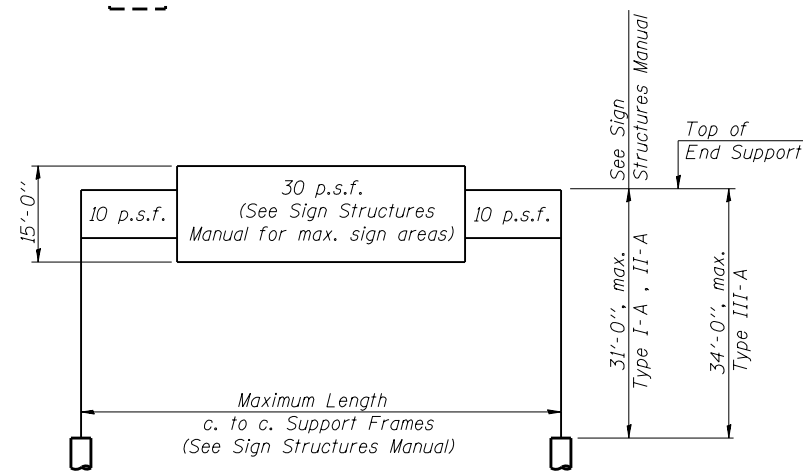
TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

| Structure Number | Station | Design Truss Type | c. to c. Supports | Elev. A | Dim. D | Height of Tallest Sign | Total Sign Area |
|------------------|---------|-------------------|-------------------|---------|-------------|------------------------|-----------------|
| ISO161090L079.9 | 15+50 | I-A | 64'-5" | 640.81 | 13'-10 1/2" | 12'-0" | 501 Sq Ft |
| ISO161090L078.7 | 3020+18 | III-A | 71'-0" | 635.00 | 23'-9" | 20'-6" | 344 Sq Ft |
| ISO161090R080.5 | 3087+10 | III-A | 69'-0" | 641.40 | 11'-9" | 16'-0" | 833 Sq Ft |
| ISO161090L081.0 | 3107+50 | III-A | 74'-4" | 643.12 | 14'-10" | 16'-0" | 731 Sq Ft |
| ISO161090L081.4 | 3128+87 | III-A | 63'-0" | 628.30 | 17'-5" | 7'-10 1/8" | 229 Sq Ft |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

OS-A-1

8-21-13



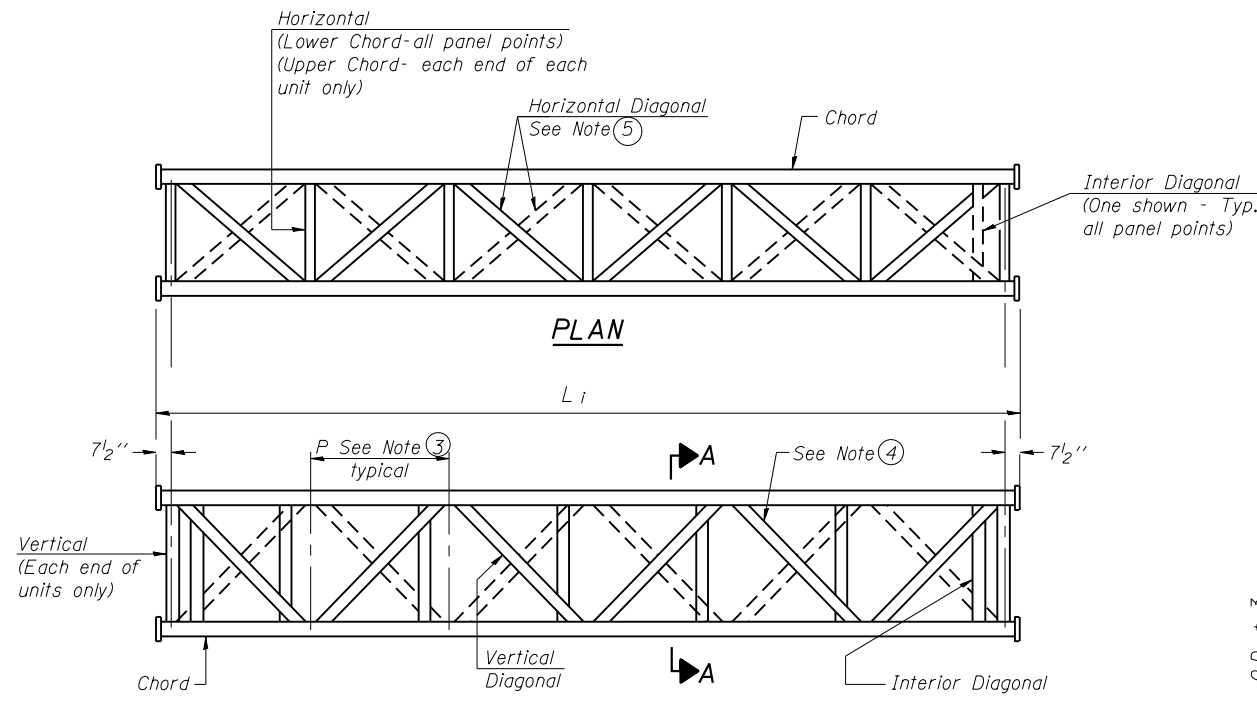
| | | |
|------------------------------|-----------------|-----------|
| USER NAME = icolletti | DESIGNED ITC | REVISED - |
| | CHECKED APC | REVISED - |
| PLOT SCALE = 3/8" = 1' / in. | DRAWN LK | REVISED - |
| PLOT DATE = 1/19/2018 | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

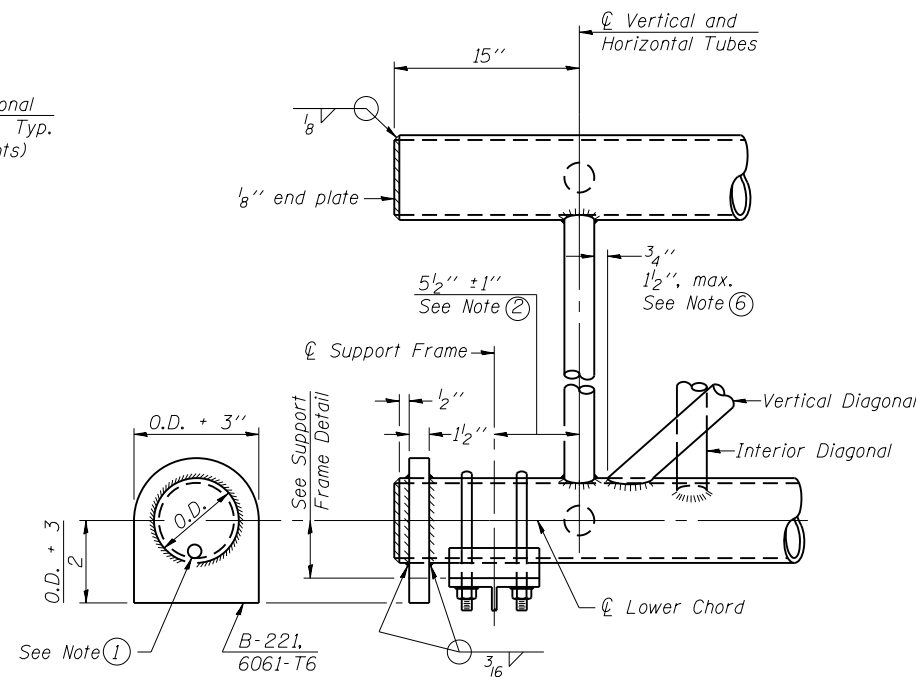
OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

SHEET NO. 1 OF 16 SHEETS

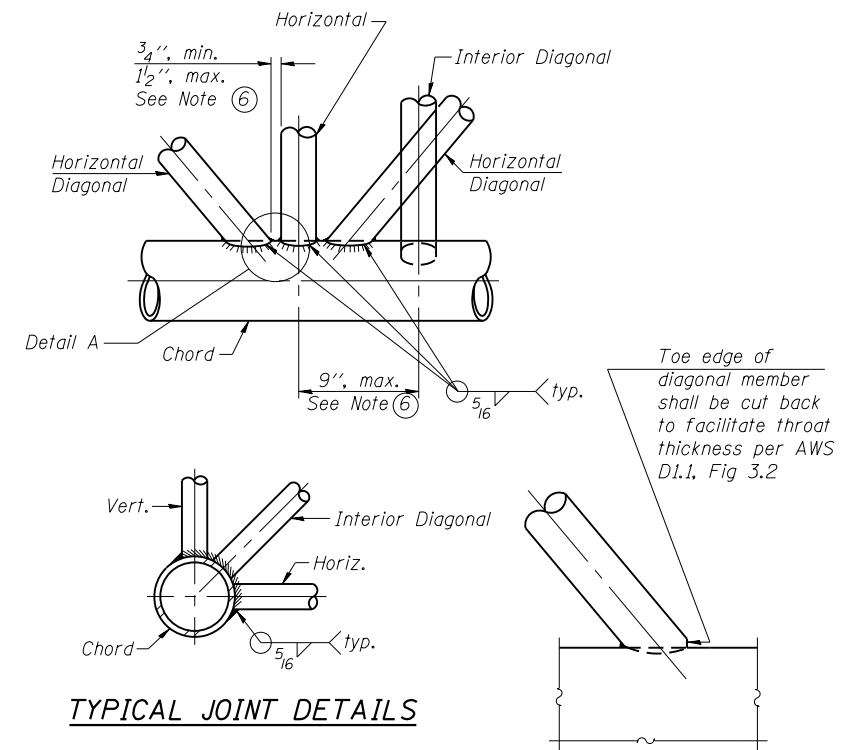
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 276 |
| | | | CONTRACT NO. 60Y39 | |
| ILLINOIS FED. AID PROJECT | | | | |



**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.

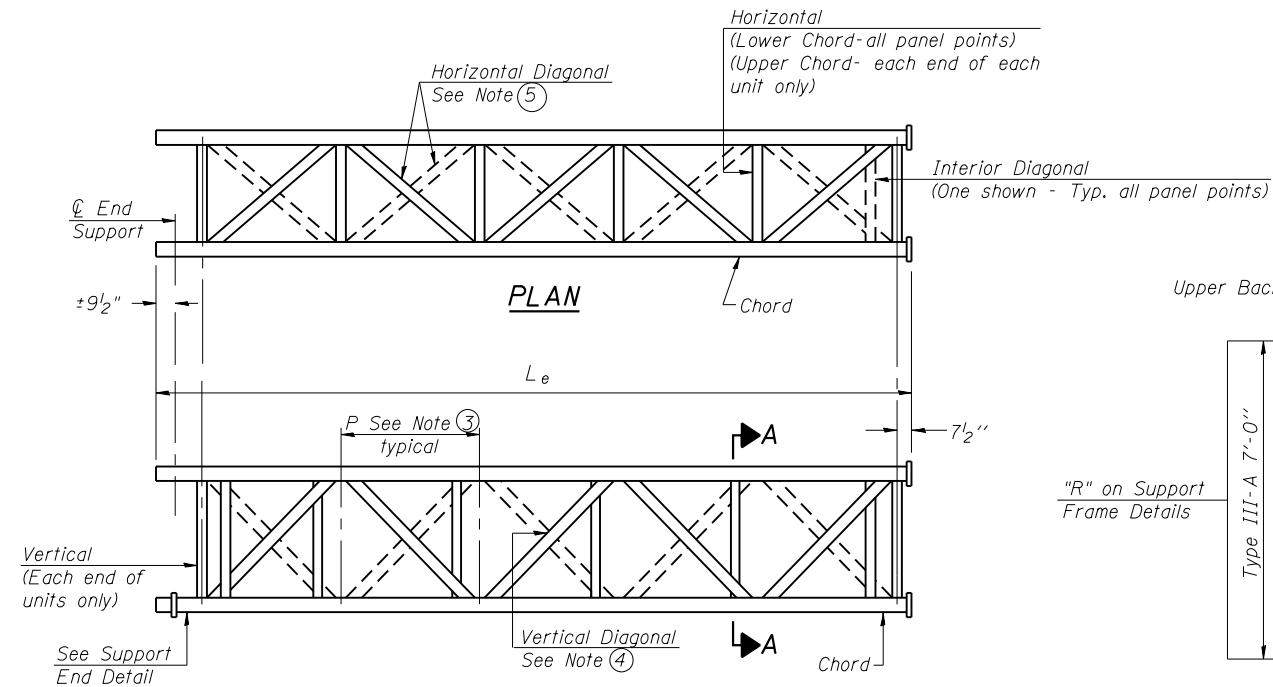


SUPPORT END DETAIL FOR EXTERIOR UNIT

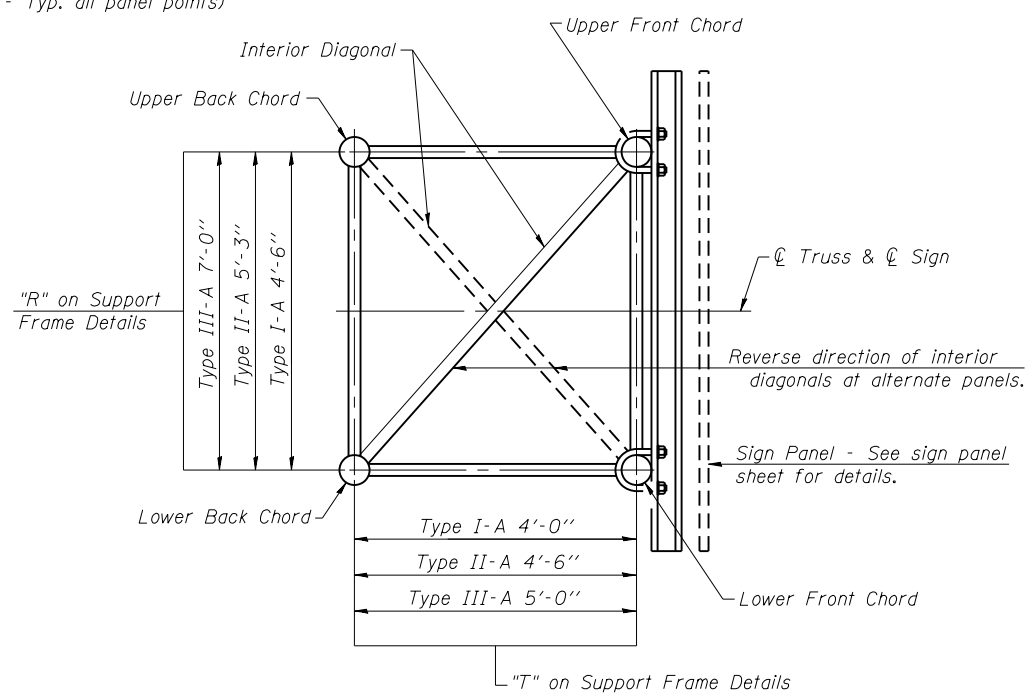


TYPICAL JOINT DETAILS

DETAIL A



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.2' = 1" / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

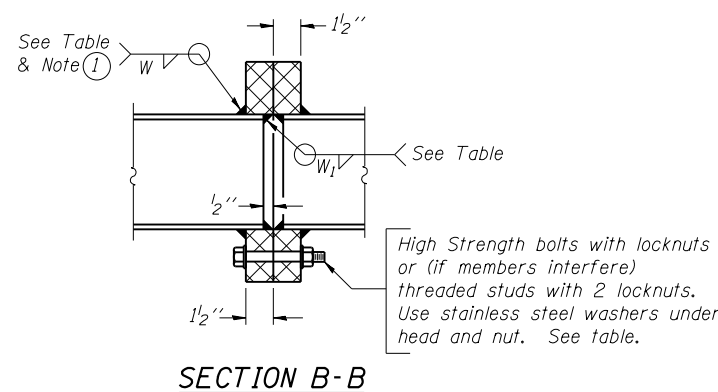
SHEET NO. 2 OF 16 SHEETS

| | | | | |
|--------------------|-------------------|--------|-----------------|--------------|
| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 277 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT

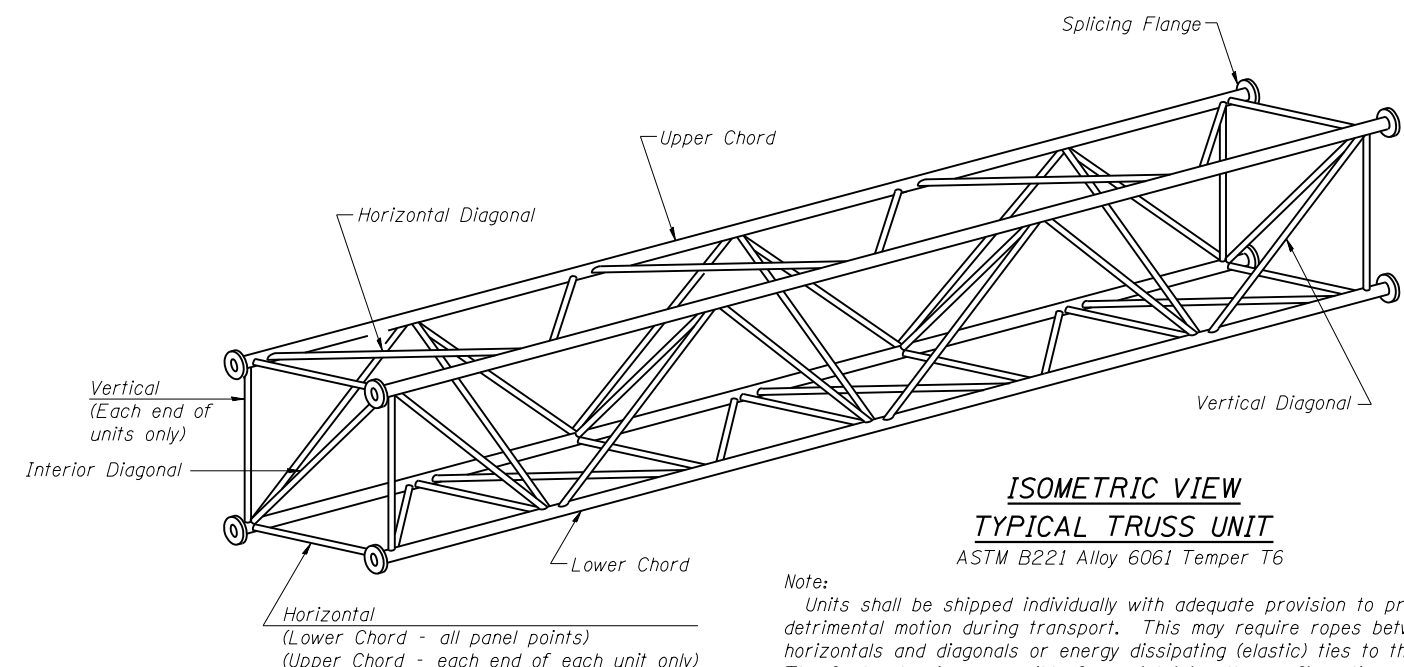
TRUSS UNIT TABLE

| Structure Number | Station | Design Truss Type | Exterior Units (2) | | | Interior Unit | | | | Upper & Lower Chord | | Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals | | Camber at Midspan | Splicing Flange | | | | | |
|------------------|---------|-------------------|---------------------|-----------------------------|----------------|---------------|---------------------|-----------------------------|----------------|---------------------|-------|--|-------|-------------------|-----------------|------|------------|----------------|---------|---------|
| | | | No. Panels per Unit | Unit Lgth.(L _e) | Panel Lgth.(P) | No. Req'd. | No. Panels per Unit | Unit Lgth.(L _i) | Panel Lgth.(P) | O.D. | Wall | O.D. | Wall | | Bolts | | Weld Sizes | | A | B |
| | | | | | | | | | | | | | | | No./Splice | Dia. | W | W ₁ | | |
| ISO161090L079.9 | 15+50 | I-A | 7 | 32'-11 1/4" | 4'-5 1/4" | 0 | --- | --- | --- | 5" | 1/4" | 2 1/2" | 1/4" | 1 1/2" | 6 | 7/8" | 5/16 | 1/4 | 8 3/4" | 11 3/4" |
| ISO161090L078.7 | 3020+18 | III-A | 7 | 36'-3 1/2" | 4'-11" | 0 | --- | --- | --- | 7" | 5/16" | 3 1/4" | 5/16" | 7/8" | 6 | 1" | 7/16 | 5/16 | 11 1/2" | 15" |
| ISO161090L080.5 | 3087+10 | III-A | 7 | 35'-3 1/4" | 4'-9 1/4" | 0 | --- | --- | --- | 7" | 5/16" | 3 1/4" | 5/16" | 7/8" | 6 | 1" | 7/16 | 5/16 | 11 1/2" | 15" |
| ISO161090L081.0 | 3107+50 | III-A | 7 | 37'-11 5/8" | 5'-1 7/8" | 0 | --- | --- | --- | 7" | 5/16" | 3 1/4" | 5/16" | 7/8" | 6 | 1" | 7/16 | 5/16 | 11 1/2" | 15" |
| ISO161090L081.4 | 3128+87 | III-A | 7 | 32'-2 1/2" | 4'-4" | 0 | --- | --- | --- | 7" | 5/16" | 3 1/4" | 5/16" | 7/8" | 6 | 1" | 7/16 | 5/16 | 11 1/2" | 15" |

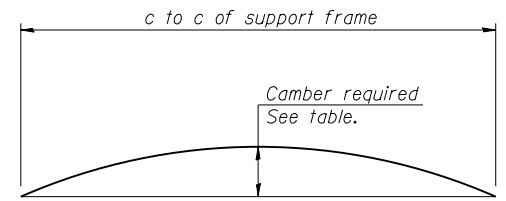


SECTION B-B

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



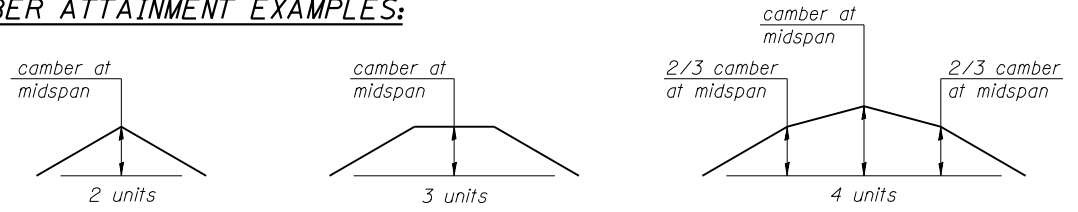
ISOMETRIC VIEW TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6



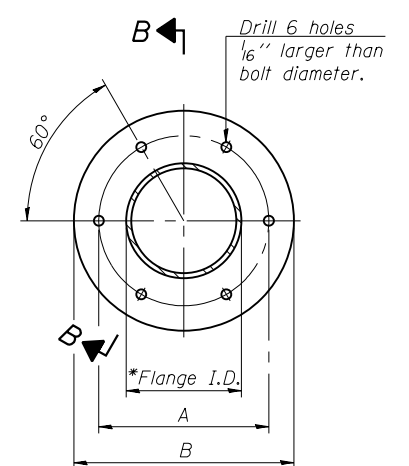
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

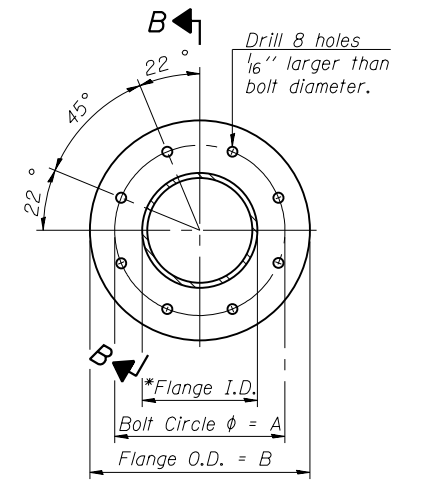
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A
SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12



| | | |
|------------------------|-----------------|---------|
| USER NAME = ikolite | DESIGNED ITC | REVISED |
| | CHECKED APC | REVISED |
| PLOT SCALE = 0.2' / 1" | DRAWN LK | REVISED |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED |

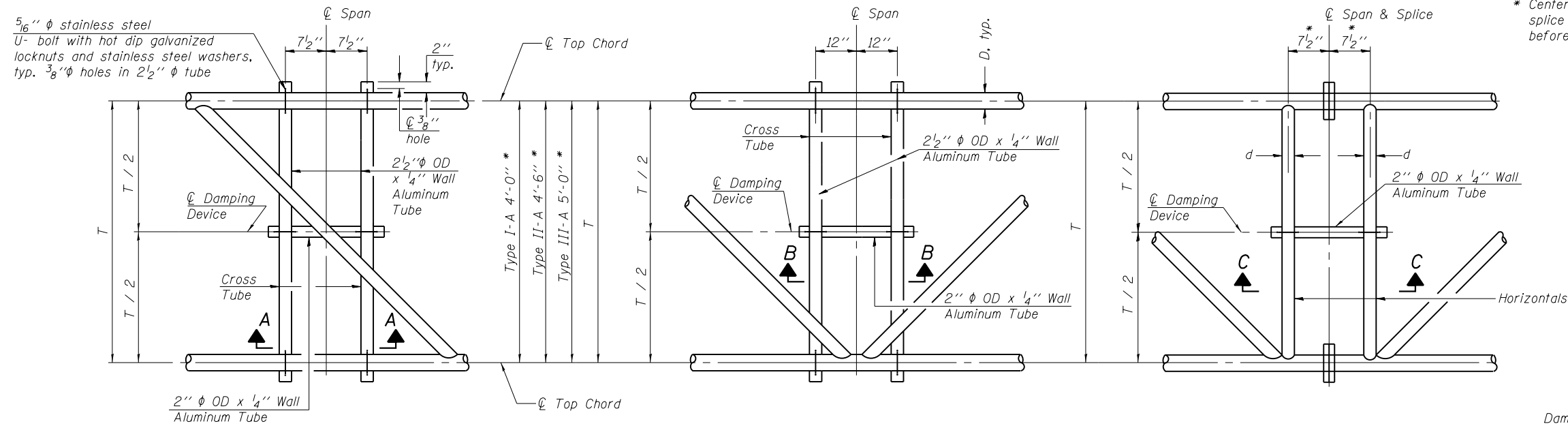
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. 3 OF 16 SHEETS

| | | | | |
|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 278 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT



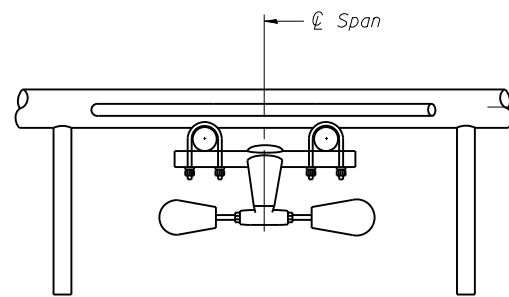
PLAN DETAIL "A"
 ☐ Span between Panel Points

PLAN DETAIL "B"
 ☐ Span at Panel Point

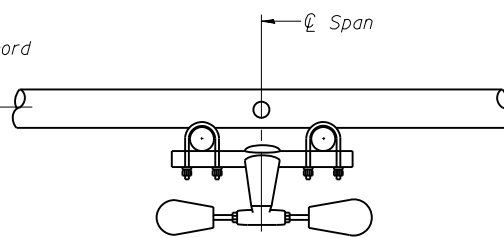
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

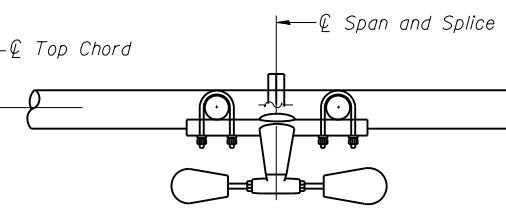
- NOTES**
- Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 - Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



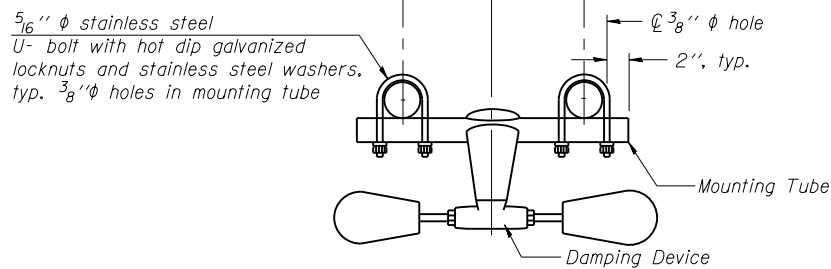
SECTION A-A



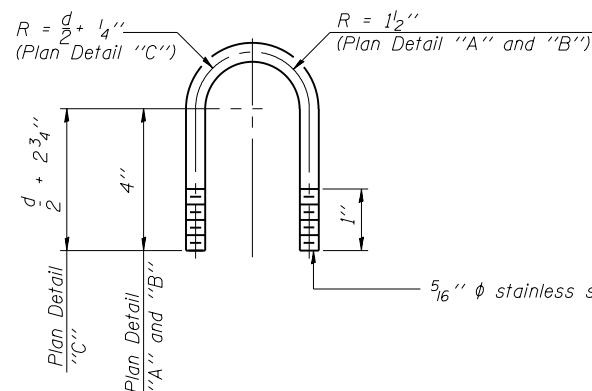
SECTION B-B



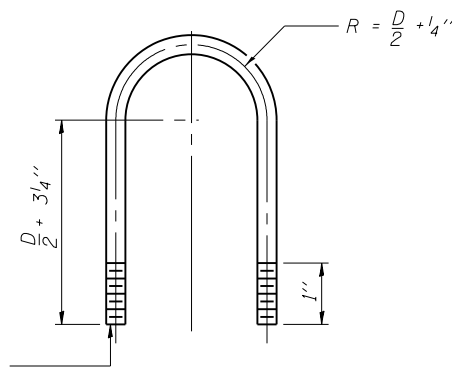
SECTION C-C



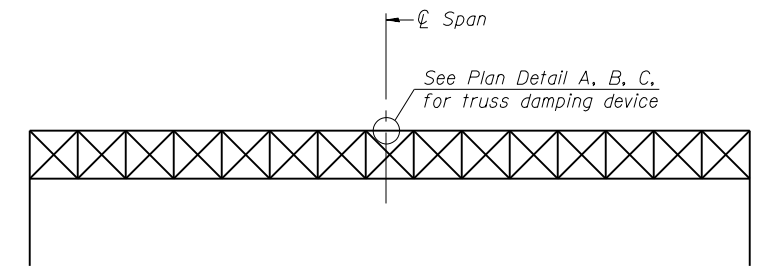
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

6-1-12

HNTB

| | | |
|--------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0:2' = 1" = 1/16" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

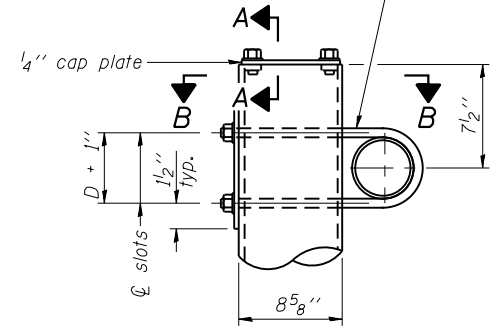
OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE

SHEET NO. 4 OF 16 SHEETS

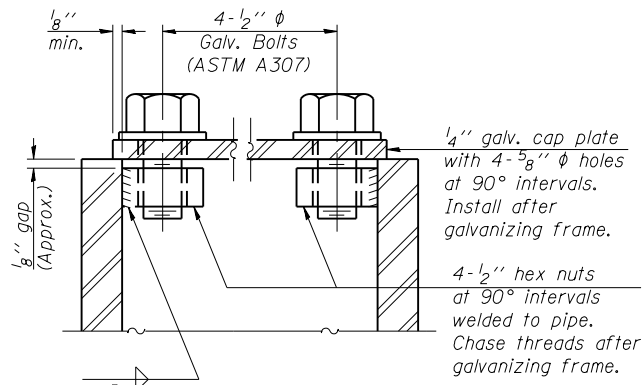
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 279 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 8" φ pipe.
(4 slots required per pipe)

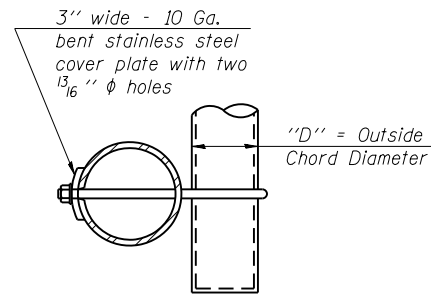


DETAIL A

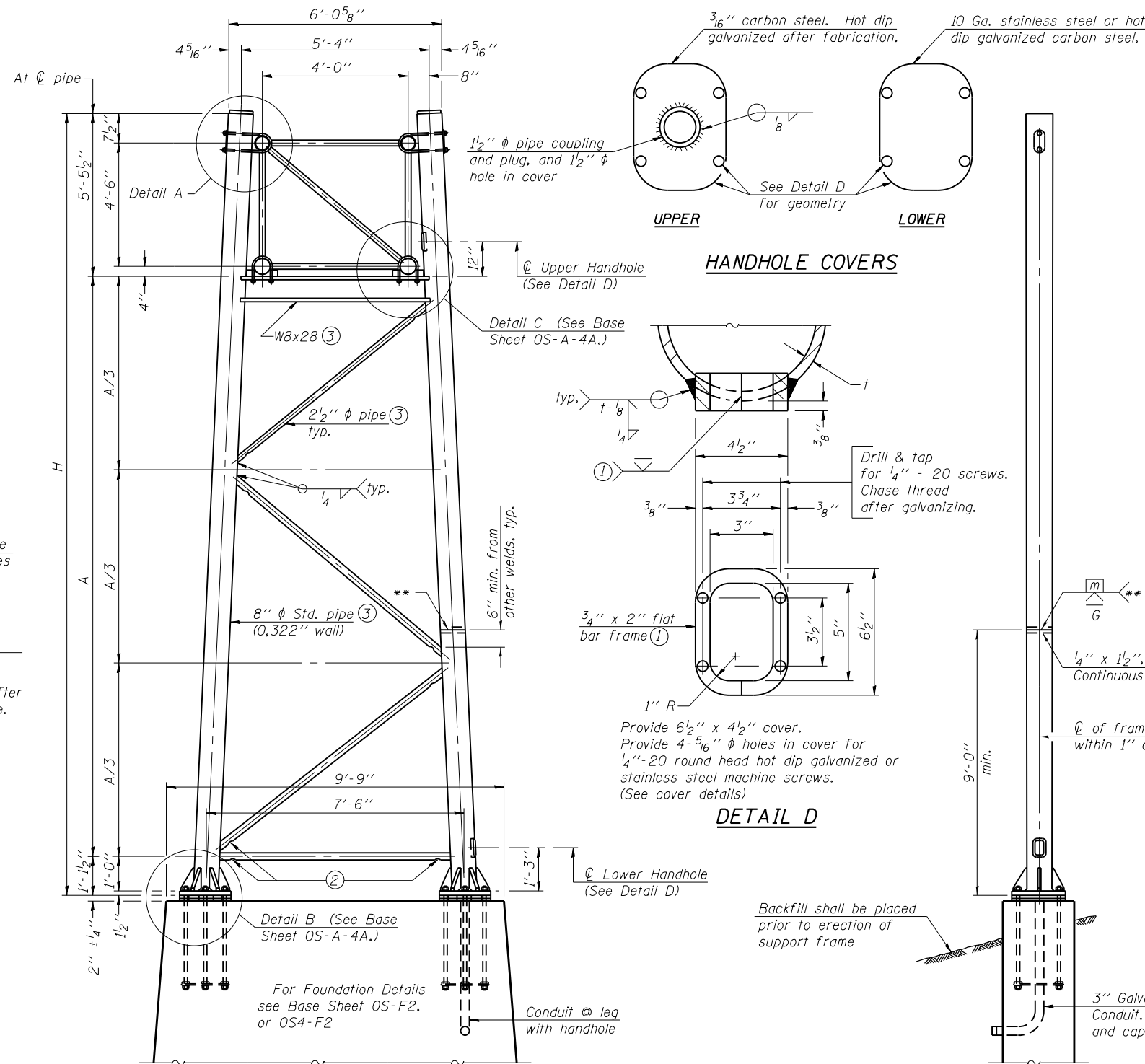


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

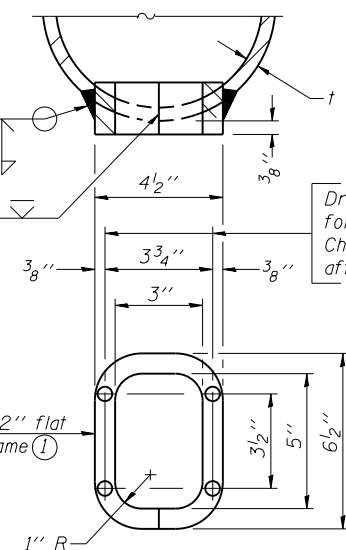


SECTION B-B



SIDE ELEVATION

HANDHOLE COVERS



DETAIL D

END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

8" φ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

OS-A-4

6-1-12



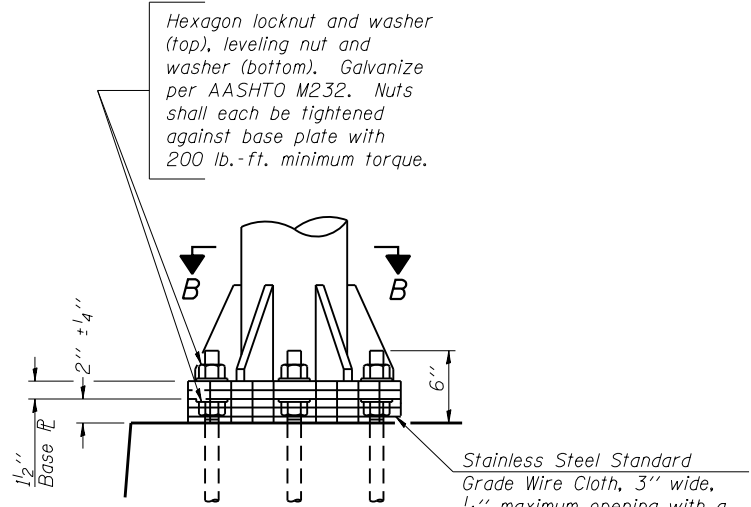
| | | |
|-------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.2' / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS - 1

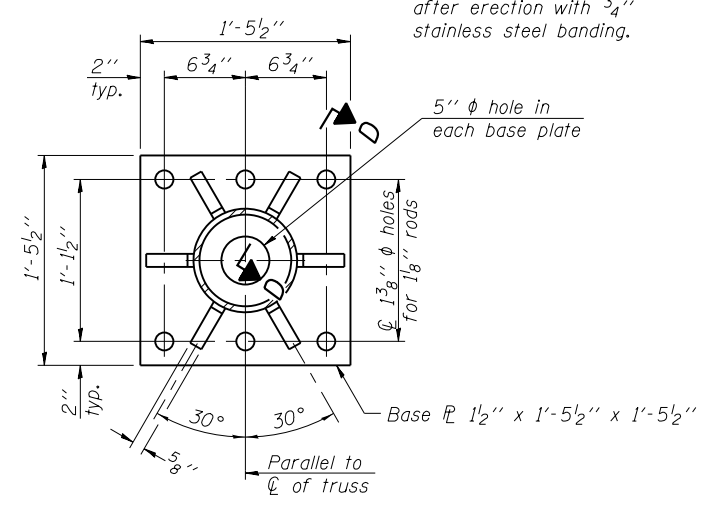
SHEET NO. 5 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 280 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

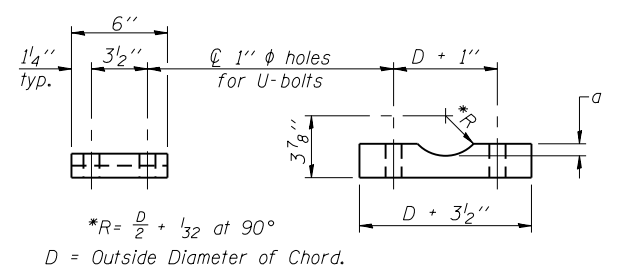
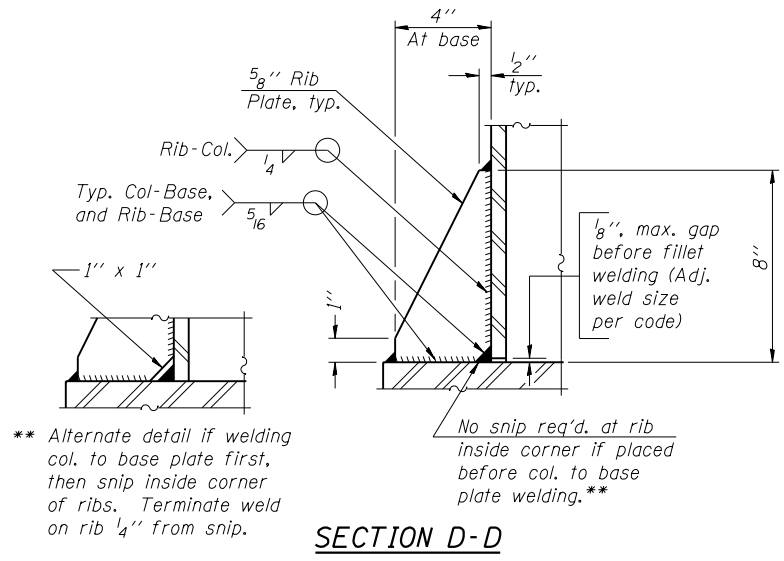


DETAIL B

Ribs shall be cut to fit slope of pipe.

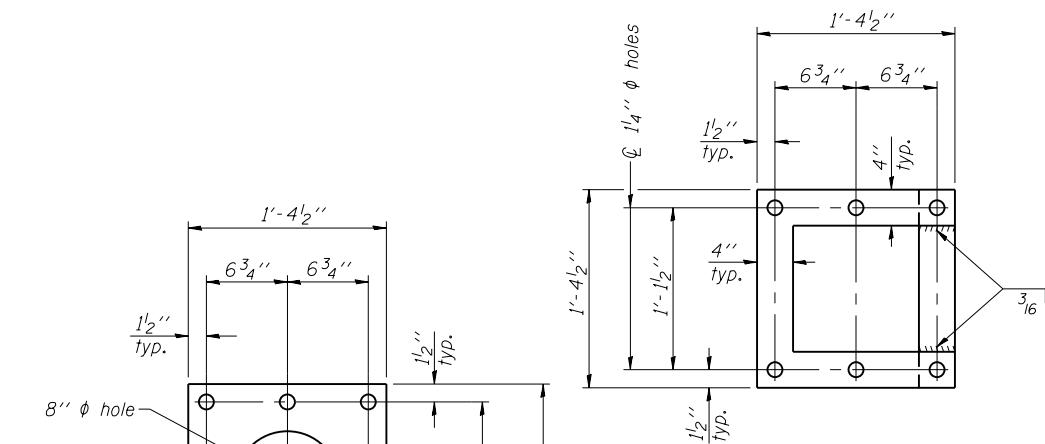
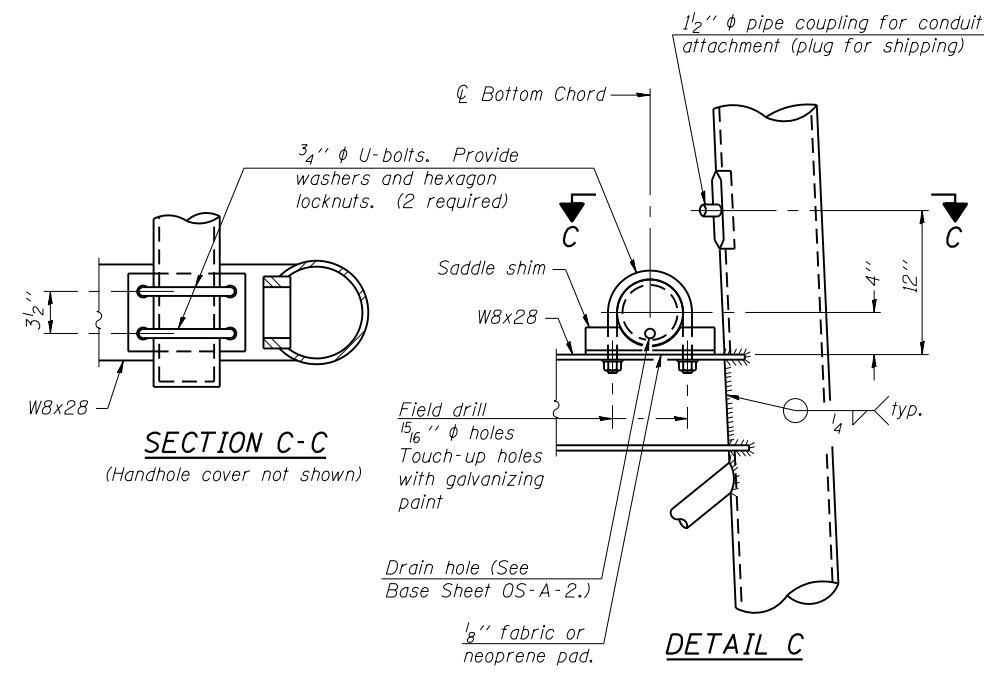


SECTION B-B

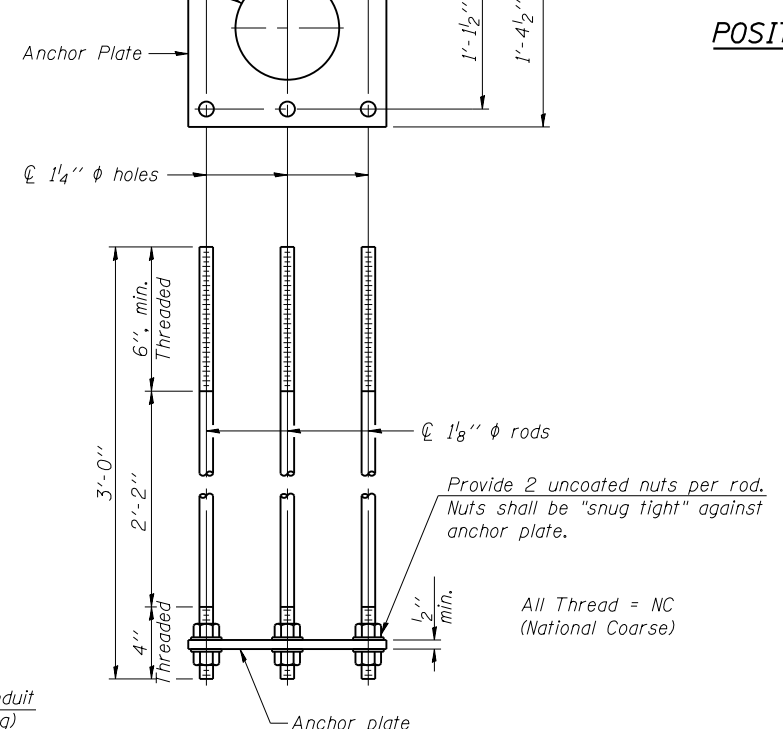


SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

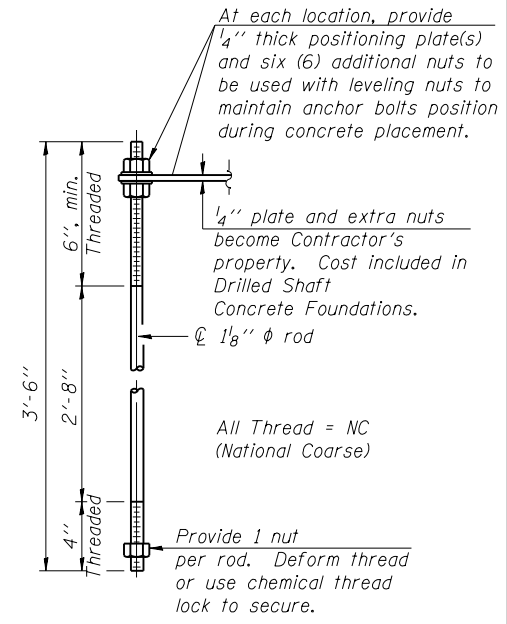
| Truss Chord Nominal Dia. | a |
|--------------------------|--------|
| 5" | 3/4" |
| 5 1/2" | 13/16" |
| 6" | 7/8" |
| 6 1/2" | 15/16" |



Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



ANCHOR ROD DETAIL
Spread Footing Foundation



ANCHOR ROD DETAIL
Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE I-A TRUSS
8" ϕ PIPE SUPPORT FRAME DETAILS



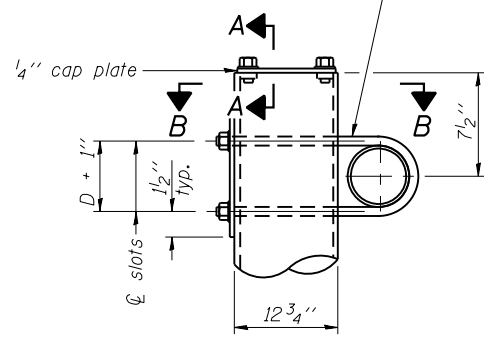
| USER NAME = | DESIGNED | REVISION |
|-------------|----------|----------|
| Ikelite | ITC | - |
| | APC | - |
| | LK | - |
| | | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

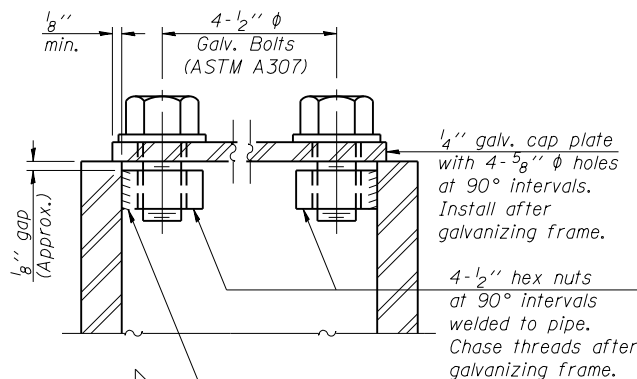
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS - 2

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 281 |

$\frac{3}{4}$ " ϕ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
 $\frac{13}{16}$ " x 2" slots on ϕ 12" ϕ pipe.
(4 slots required per pipe)

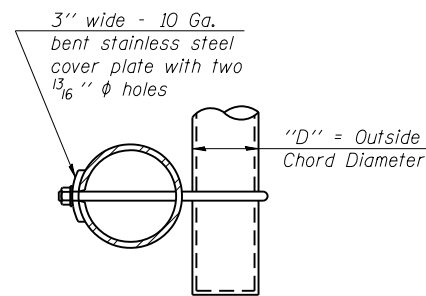


DETAIL A

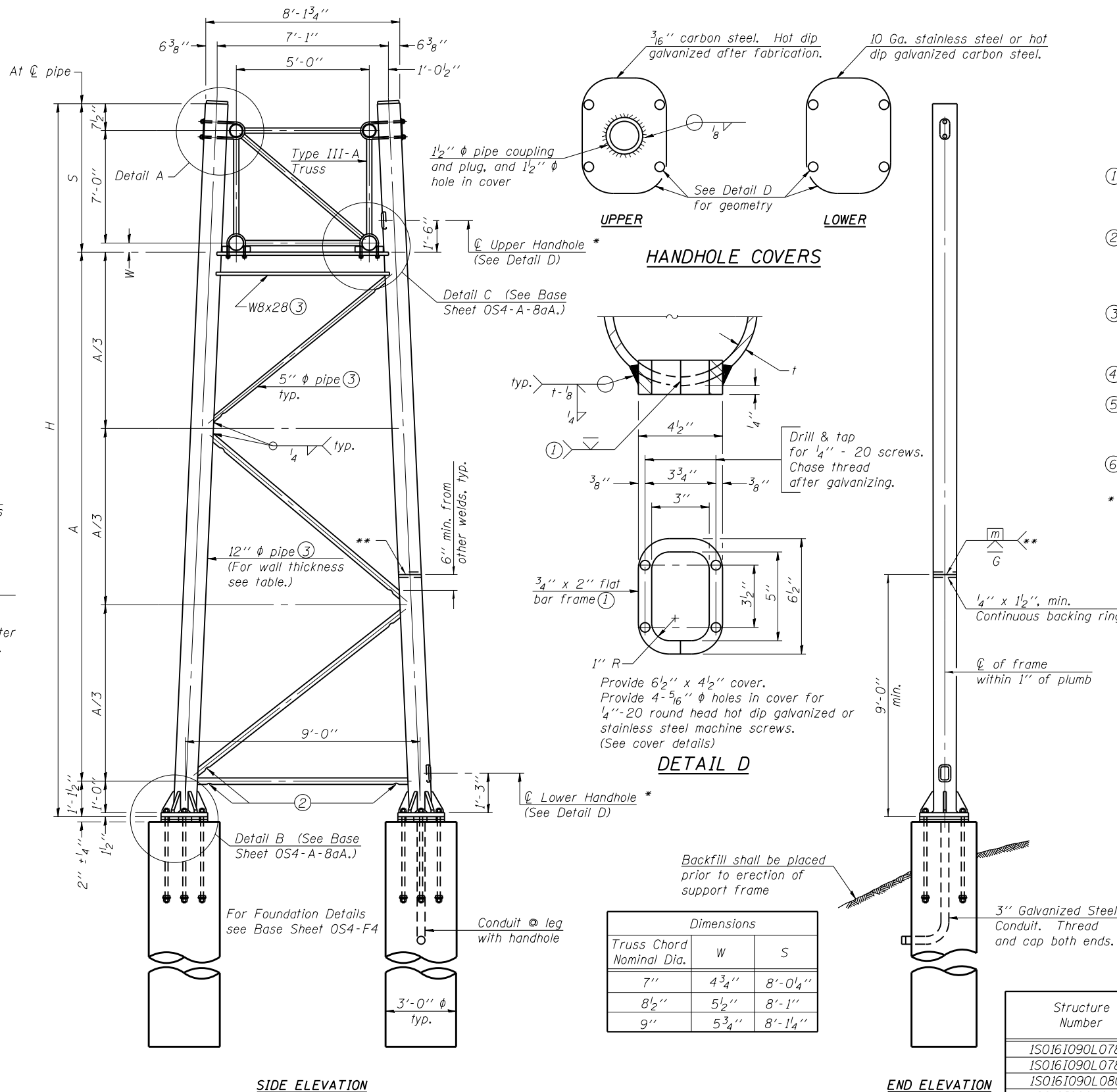


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



| Dimensions | | |
|--------------------------|-------------------|----------------------|
| Truss Chord Nominal Dia. | W | S |
| 7" | 4 $\frac{3}{4}$ " | 8'-0 $\frac{1}{4}$ " |
| 8 $\frac{1}{2}$ " | 5 $\frac{1}{2}$ " | 8'-1" |
| 9" | 5 $\frac{3}{4}$ " | 8'-1 $\frac{1}{4}$ " |

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μ m or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

| Structure Number | Station | Support | | Pipe Wall Thickness | H (6) | A |
|------------------|---------|---------|-------|---------------------|------------------------|------------------------|
| | | Left | Right | | | |
| ISO161090L078.7 | 3020+18 | | | 0.33 | 32'-0 $\frac{1}{8}$ " | 22'-10 $\frac{3}{8}$ " |
| ISO161090L078.7 | 3020+18 | | | 0.33 | 28'-9 $\frac{3}{16}$ " | 19'-8 $\frac{1}{16}$ " |
| ISO161090L080.5 | 3087+10 | | | 0.33 | 27'-1" | 17'-11 $\frac{1}{4}$ " |
| ISO161090L080.5 | 3087+10 | | | 0.33 | 28'-9 $\frac{9}{16}$ " | 19'-7 $\frac{3}{16}$ " |
| ISO161090L081.0 | 3107+50 | | | 0.33 | 26'-3 $\frac{1}{2}$ " | 17'-1 $\frac{3}{4}$ " |
| ISO161090L081.0 | 3107+50 | | | 0.33 | 29'-3 $\frac{7}{8}$ " | 20'-2 $\frac{1}{8}$ " |
| ISO161090L081.4 | 3128+87 | | | 0.33 | 27'-2 $\frac{1}{8}$ " | 18'-0 $\frac{3}{8}$ " |
| ISO161090L081.4 | 3128+87 | | | 0.33 | 27'-2 $\frac{3}{8}$ " | 18'-0 $\frac{5}{8}$ " |

OS4-A-8a

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.25" = 1' - 0" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

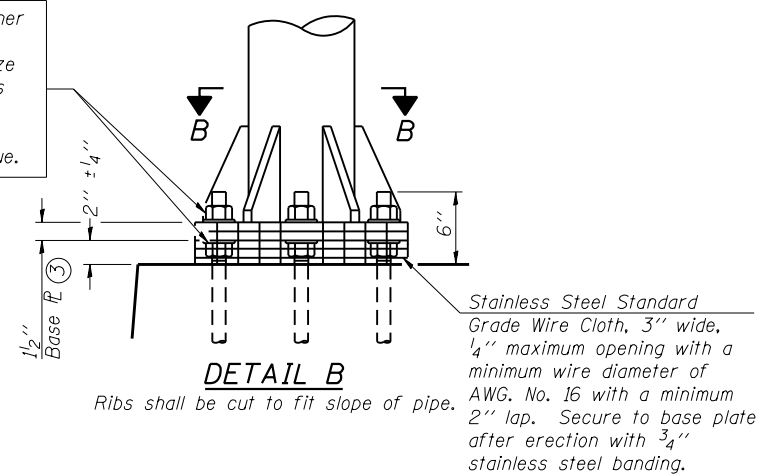
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS - 1

| | | | | |
|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 282 |
| CONTRACT NO. 60Y39 | | | | |

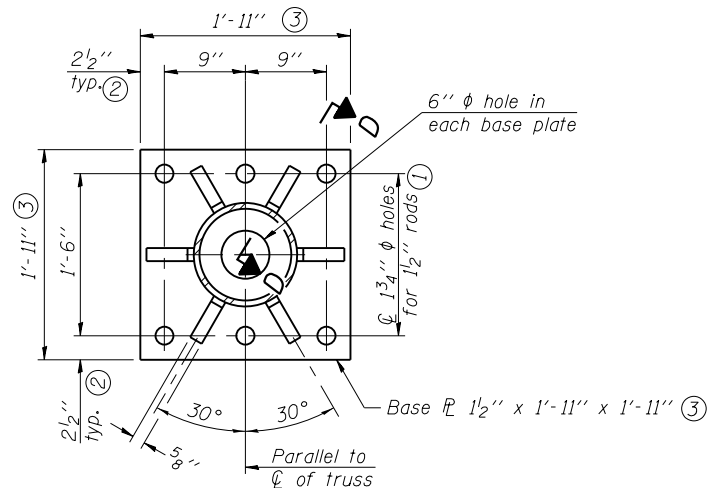
SHEET NO. 7 OF 16 SHEETS

ILLINOIS FED. AID PROJECT

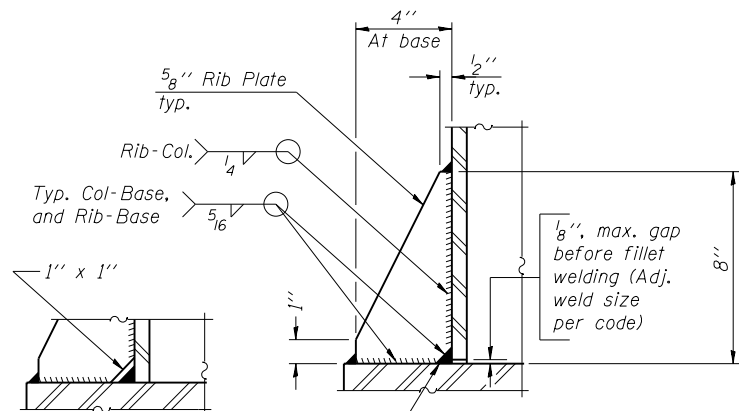
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



DETAIL B
Ribs shall be cut to fit slope of pipe.

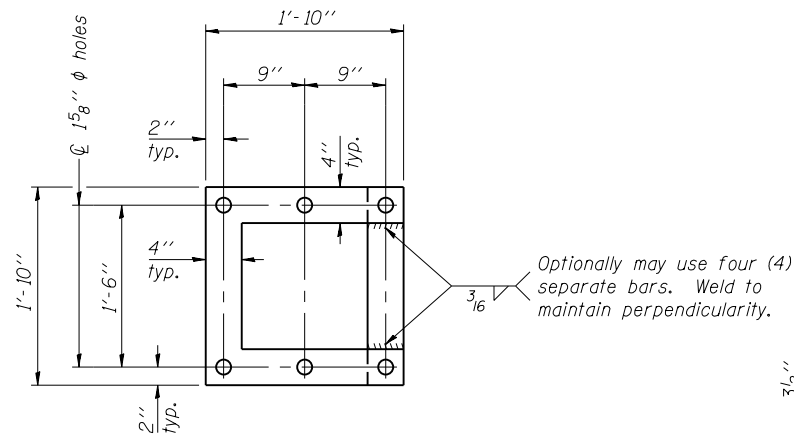


SECTION B-B

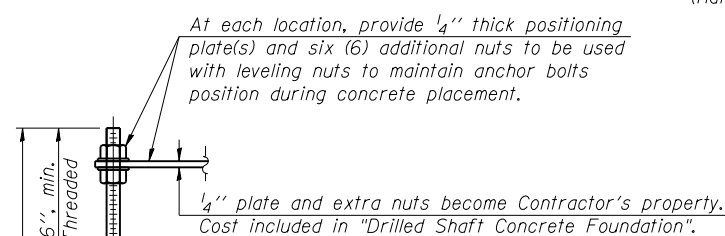


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4 inch from snip.

SECTION D-D



POSITIONING PLATE(S)



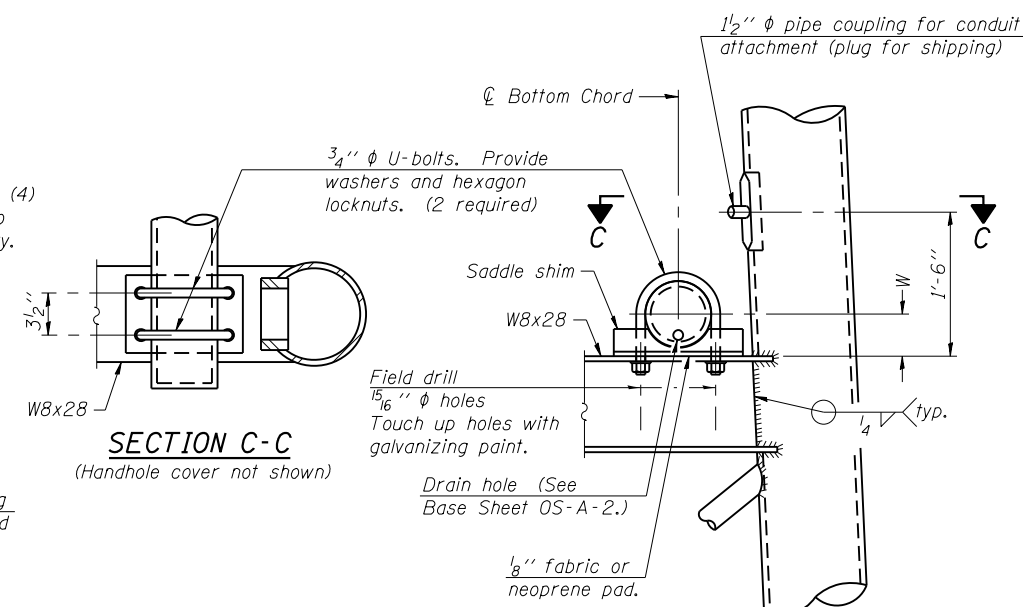
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12 inch minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
12" φ PIPE SUPPORT FRAME DETAILS**

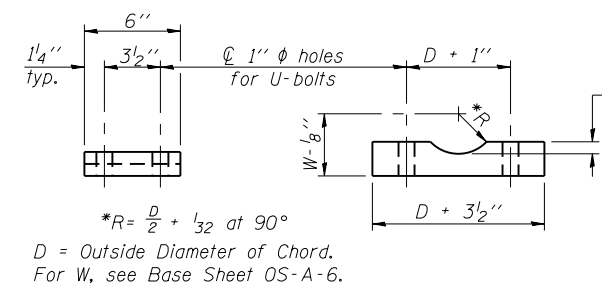
Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" φ rod, 2" φ holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



SECTION C-C
(Handhole cover not shown)

DETAIL C



SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

| Truss Chord Nominal Dia. | a |
|--------------------------|--------|
| 7" | 1" |
| 8 1/2" | 1 1/4" |
| 9" | 1 3/8" |

OS4-A-8aA

6-1-12

HNTB

| | | |
|------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.2" = 1' / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

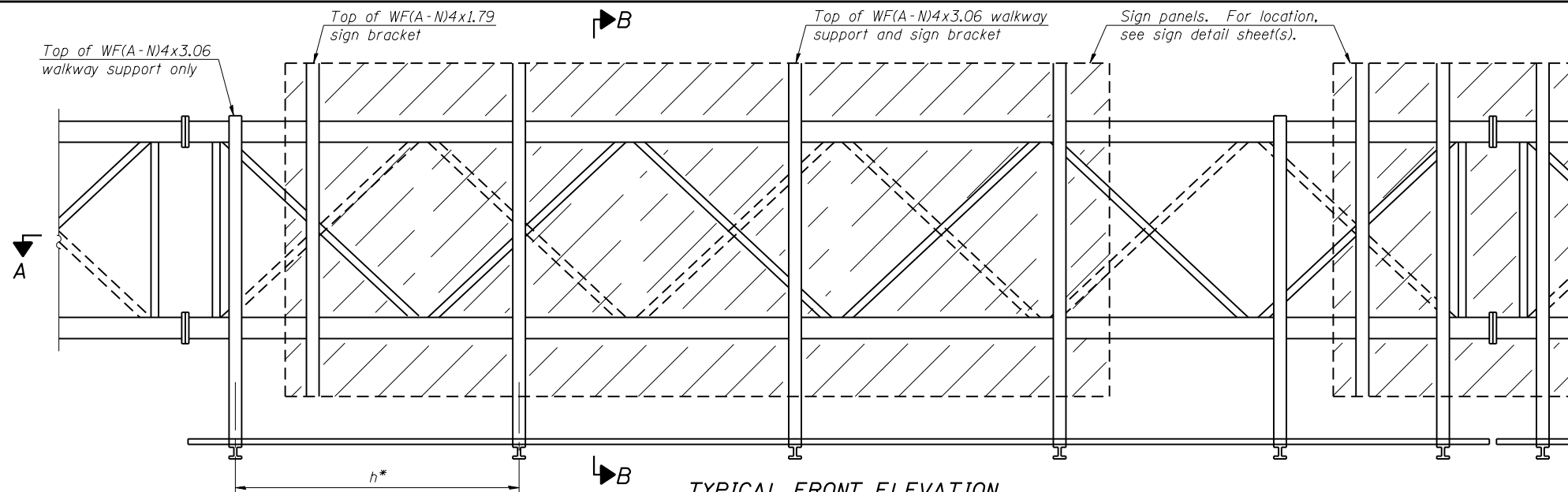
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS - 2

SHEET NO. 8 OF 16 SHEETS

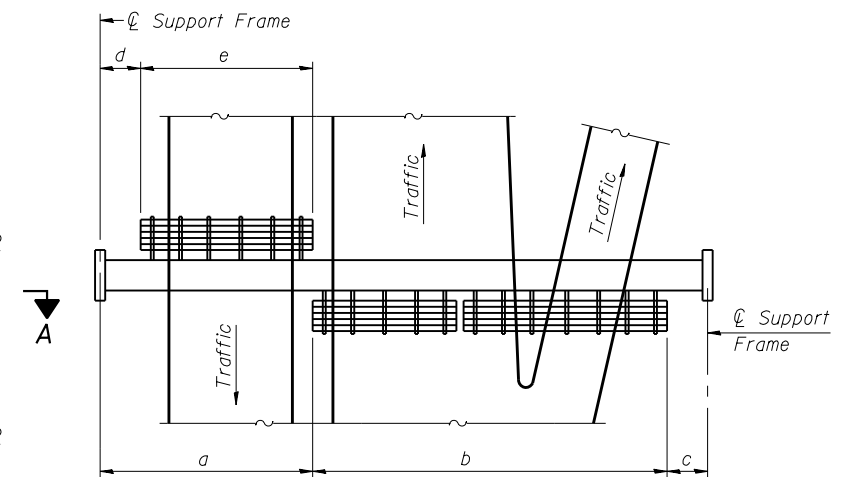
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------|--------|--------------|--------------------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 283 |
| | | | | CONTRACT NO. 60Y39 |

ILLINOIS FED. AID PROJECT



TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

| WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6 | | |
|--|--------------------------|--------------------------------|
| Sign Width | | Number Brackets Required |
| Greater Than | Less Than or Equal To | |
| | 8'-0" | 2 |
| 8'-0" | 14'-0" | 3 |
| 14'-0" | 20'-0" | 4 |
| 20'-0" | 26'-0" | 5 |
| 26'-0" | 32'-0" | 6 |

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ϕ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ϕ of nearest support bracket)

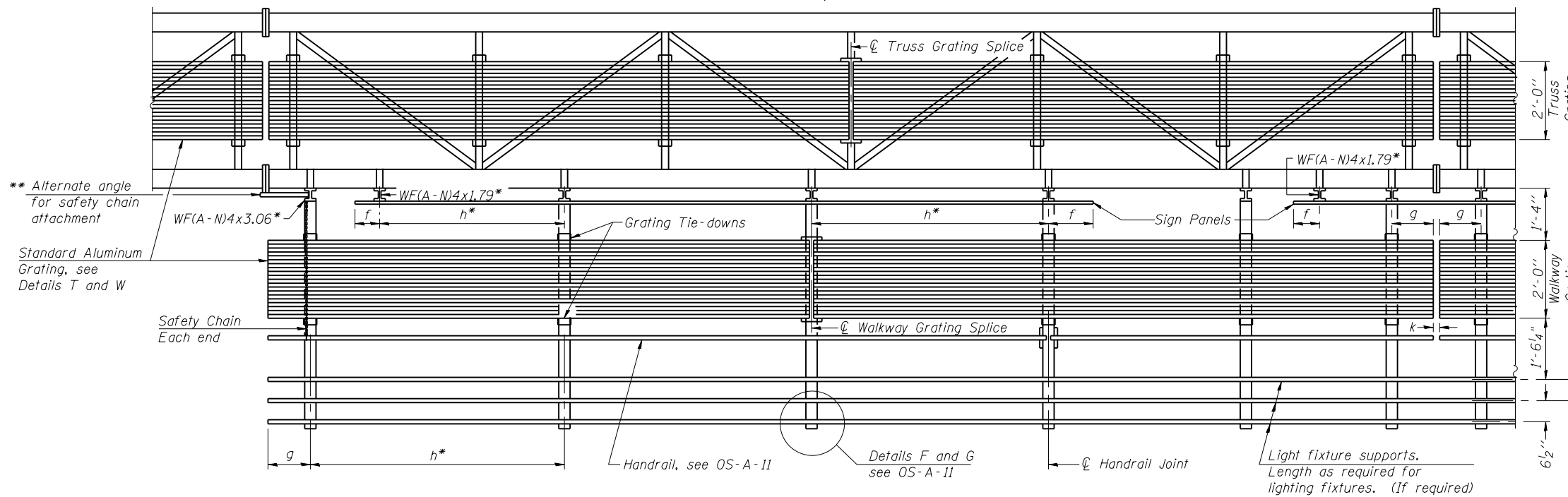
h = 6'-0" maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

| Structure Number | Station | a | b | c | d | e | Walkway Grating and Handrail Lengths |
|------------------|---------|---|---|---|---|---|--------------------------------------|
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Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

OS-A-9

6-1-12



| | | |
|----------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISIONS |
| PLOT SCALE = 0.25" = 1'-0" | CHECKED APC | REVISIONS |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISIONS |
| | DATE 01/19/2018 | REVISIONS |

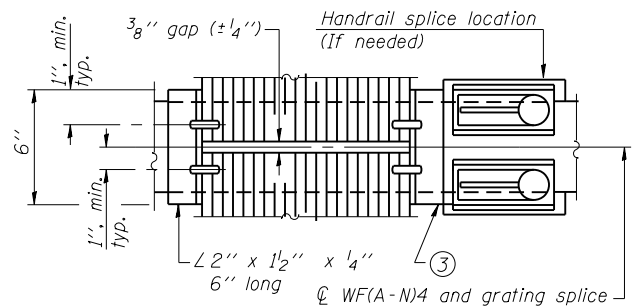
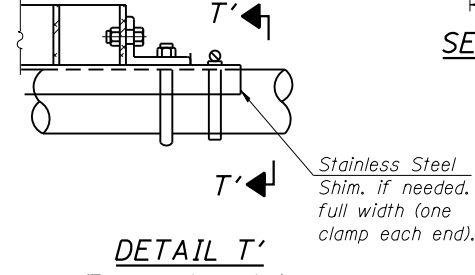
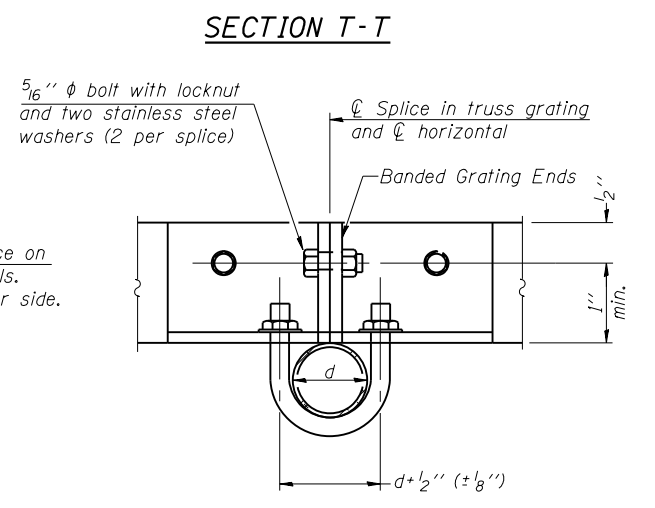
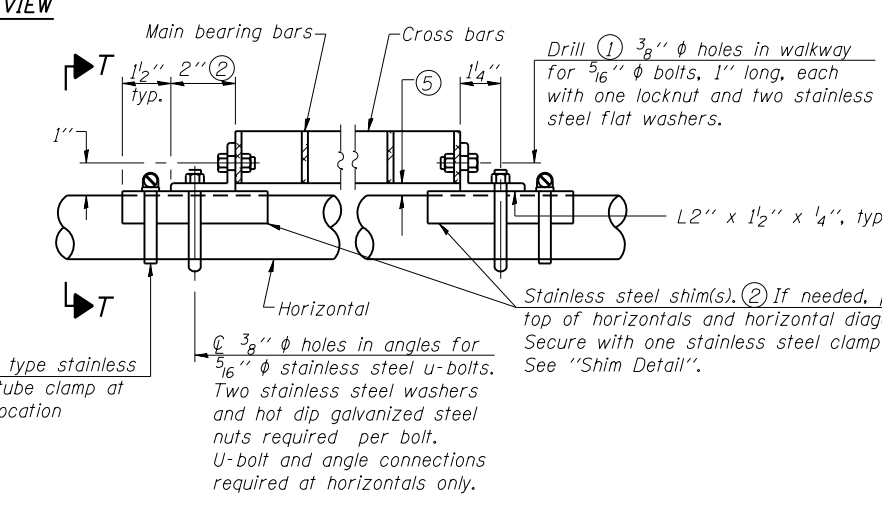
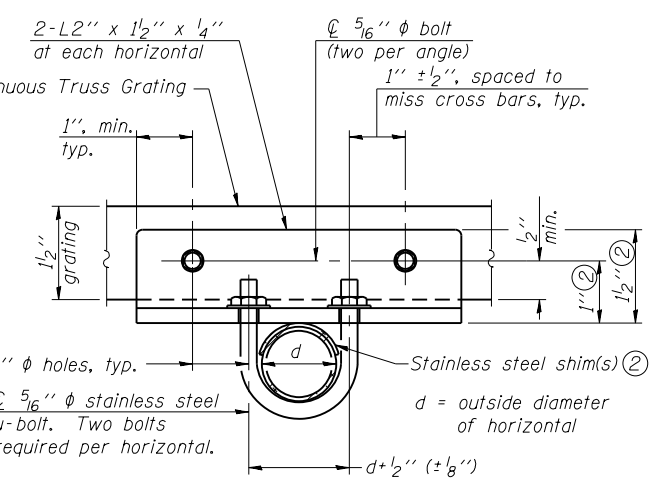
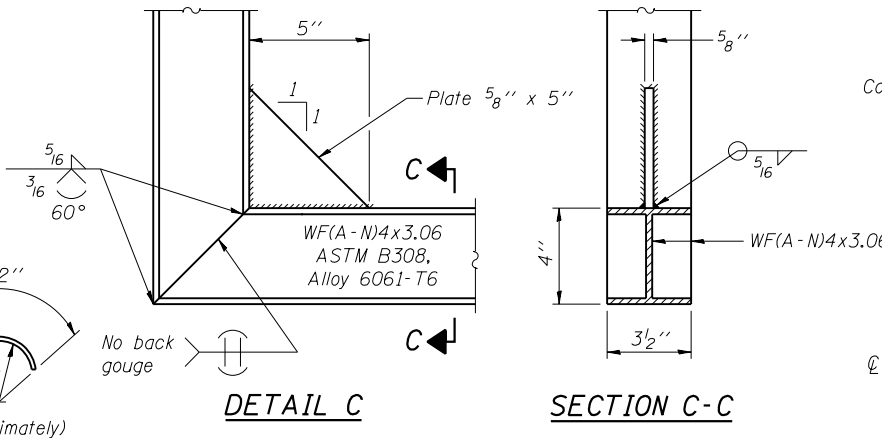
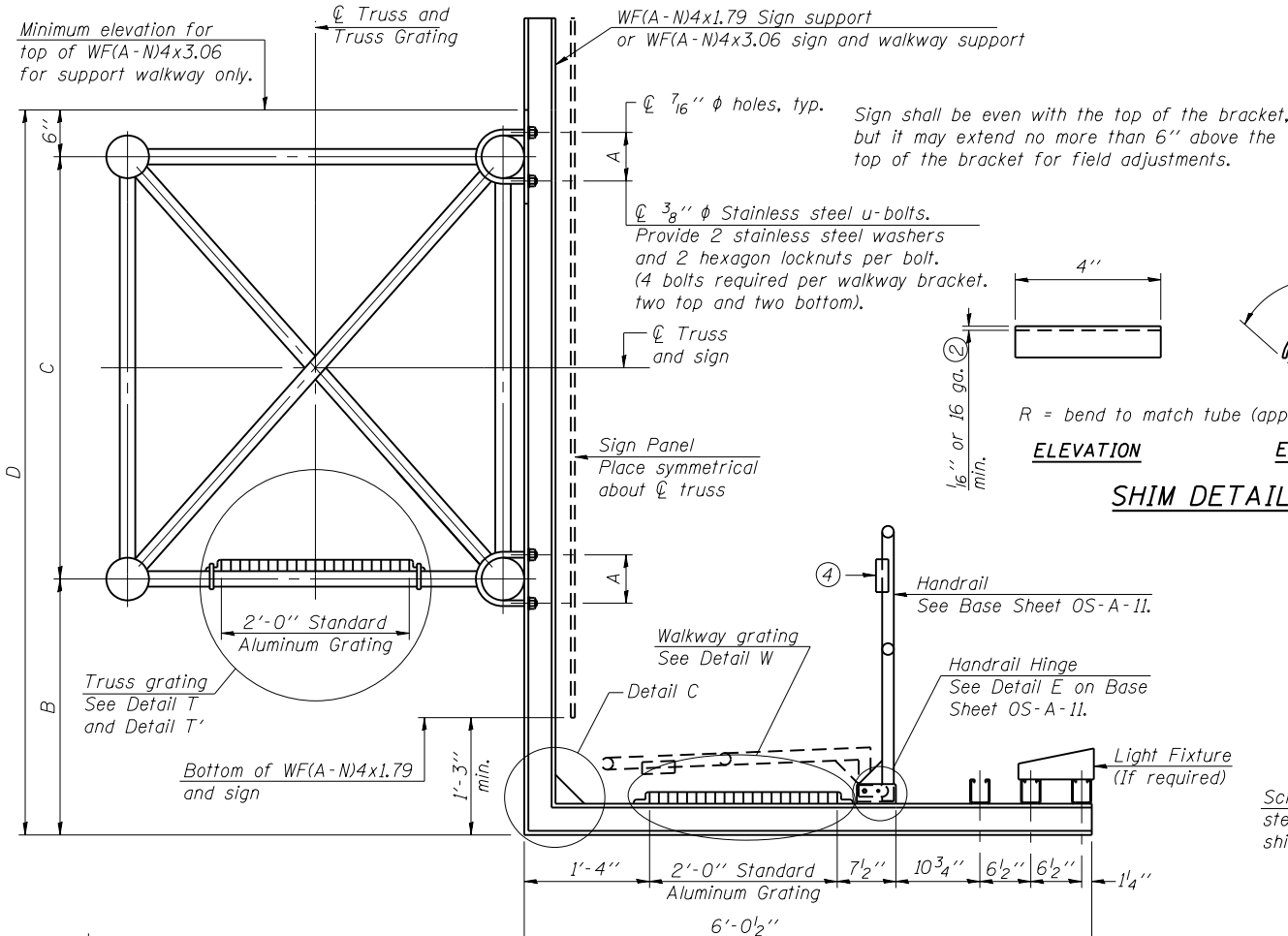
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

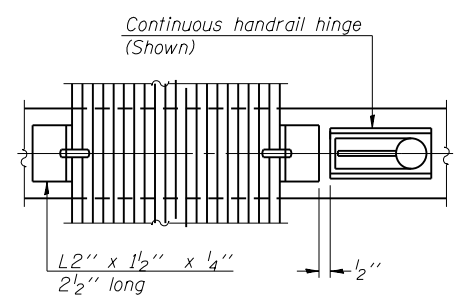
SHEET NO. 9 OF 16 SHEETS

| | | | | |
|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 284 |
| CONTRACT NO. 60Y39 | | | | |

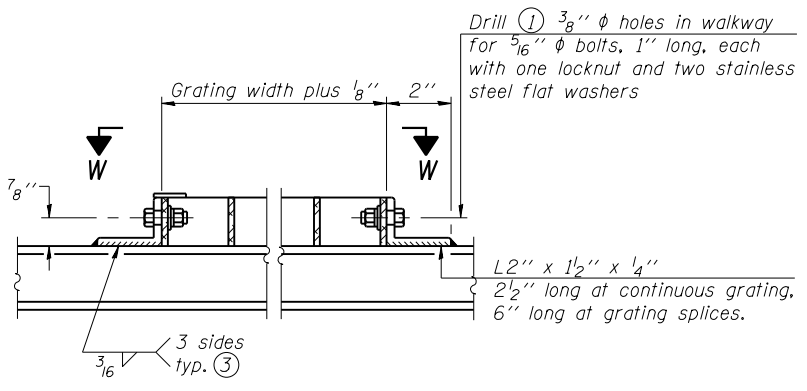
ILLINOIS FED. AID PROJECT



(AT WALKWAY GRATING SPLICE)



(CONTINUOUS WALKWAY GRATING)



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

| Structure Number | Station | A | ⑥ B | C | ⑥ D |
|------------------|---------|--------|-------|-------|--------|
| ISO161090L078.7 | 3020+18 | 7 3/8" | 7'-3" | 7'-0" | 14'-9" |
| ISO161090R080.5 | 3087+10 | 7 3/8" | 5'-0" | 7'-0" | 12'-5" |
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- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-II.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10

6-1-12



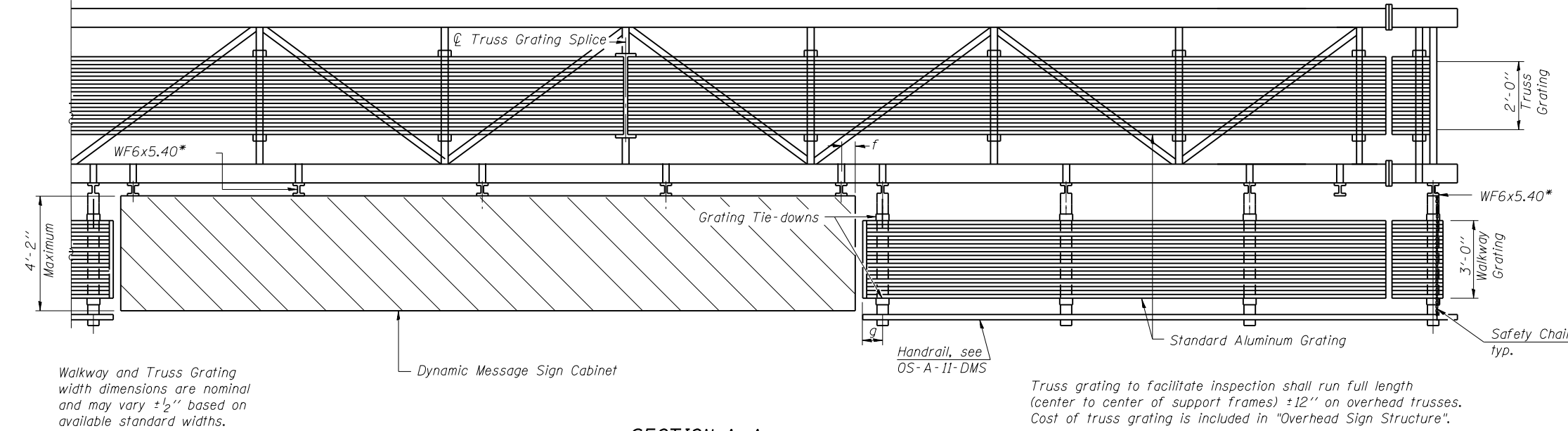
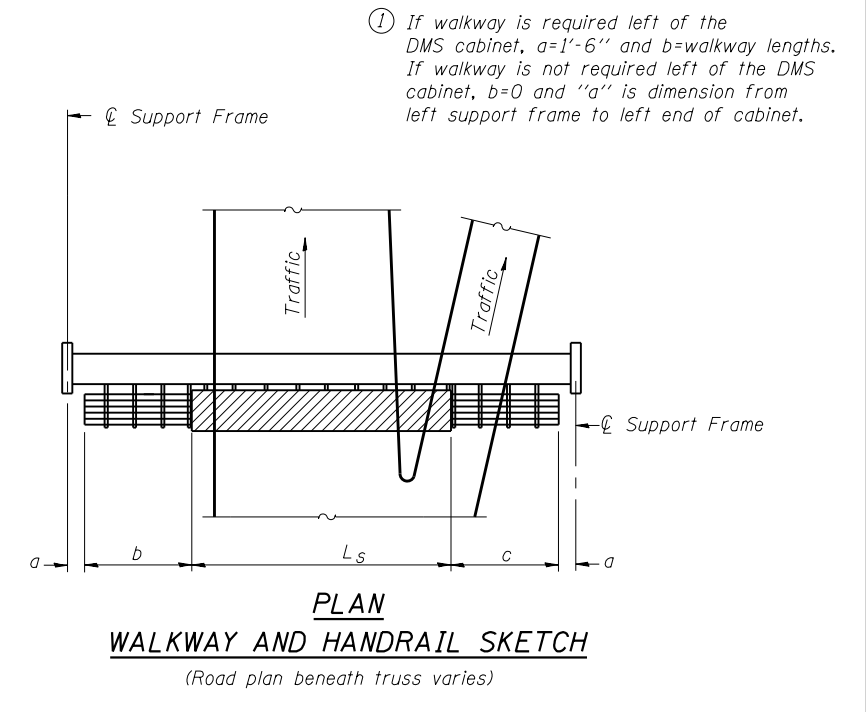
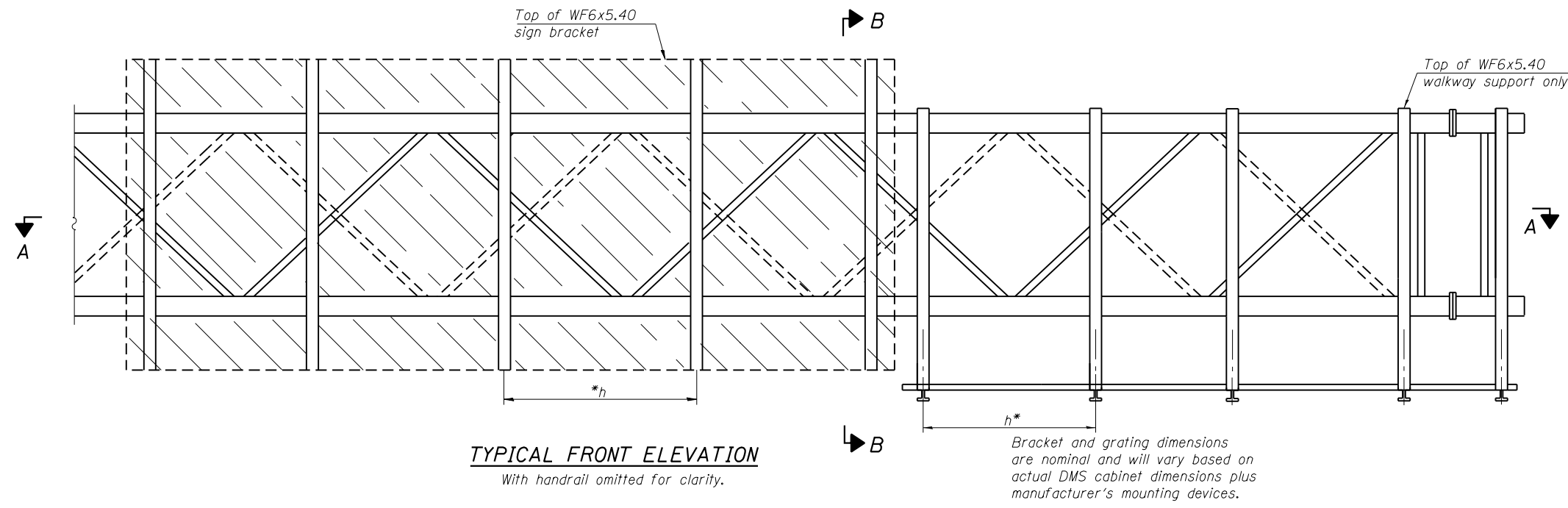
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|-------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 3/32" = 1' / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SHEET NO. 10 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 285 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



BRACKET TABLE

| WF6x5.40 ASTM B308, Alloy 6061-T6 | | |
|--------------------------------------|-----------------------|--------------------------|
| Sign Width | | Number Brackets Required |
| Greater Than | Less Than or Equal To | |
| | 8'-0" | 2 |
| 8'-0" | 14'-0" | 3 |
| 14'-0" | 20'-0" | 4 |
| 20'-0" | 26'-0" | 5 |
| 26'-0" | 32'-0" | 6 |

SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Notes:

- * Space walkway brackets WF6x5.40 for efficiency and within limits shown:
- $f = 12''$ maximum, 4'' minimum (End of sign to \O of nearest bracket)
- $g = 12''$ maximum, 4'' minimum (End of walkway grating to \O of nearest support bracket)
- $h = 6'-0''$ maximum (\O to \O sign and/or walkway support brackets, WF6x5.40)

Maximum DMS weight = 5000 lbs. 4'-2'' maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

| Structure Number | Station | a | b | c | L_s | Walkway Grating and Handrail Lengths |
|------------------|---------|-----------------------|-------|-------|--------|--------------------------------------|
| IS0161090L081.4 | 3128+87 | 12'-8 $\frac{3}{8}$ " | 0'-0" | 8'-0" | 29'-2" | 8'-0" |
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OS-A-9-DMS 6-1-12



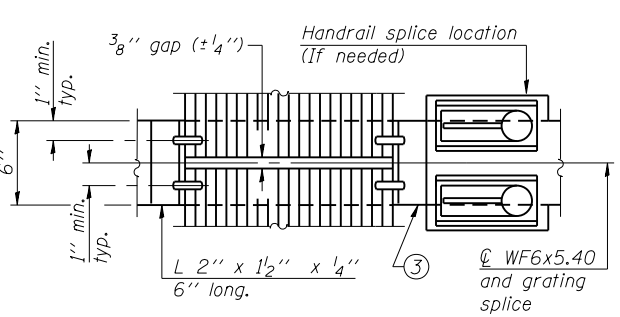
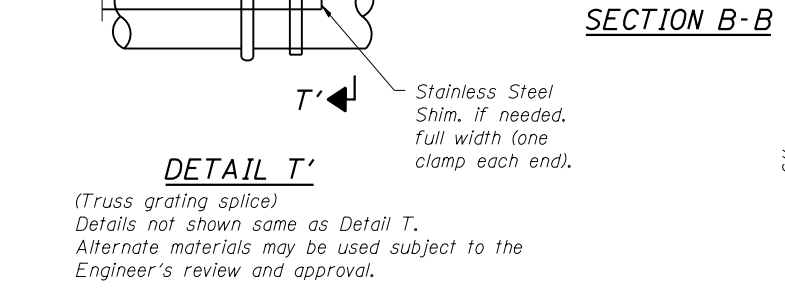
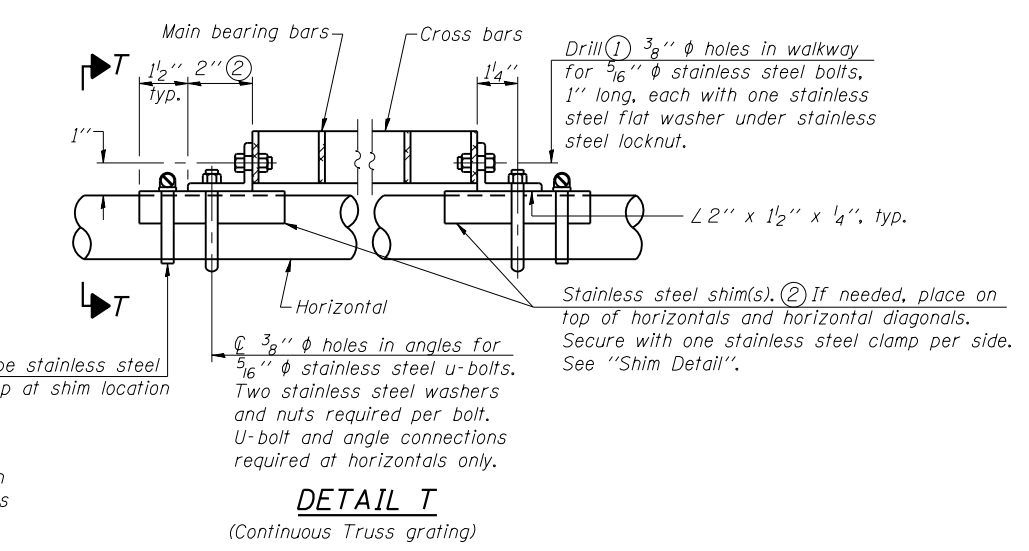
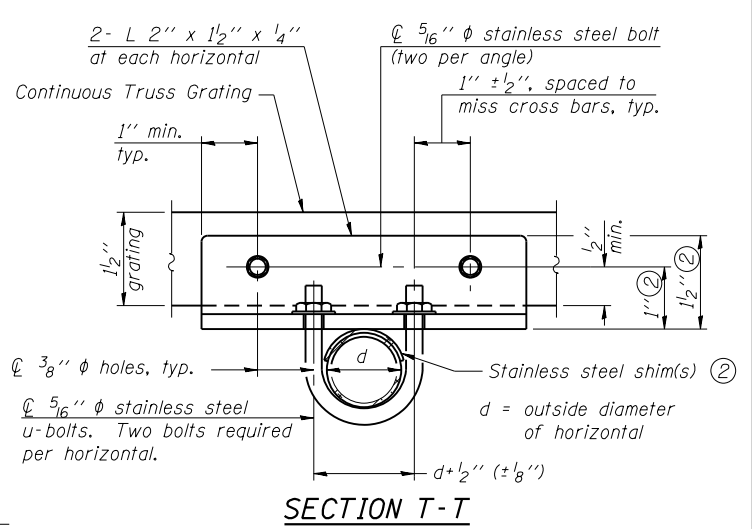
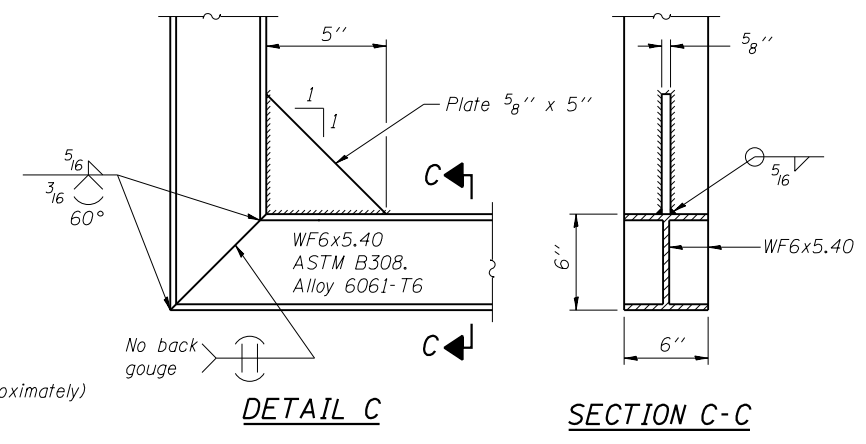
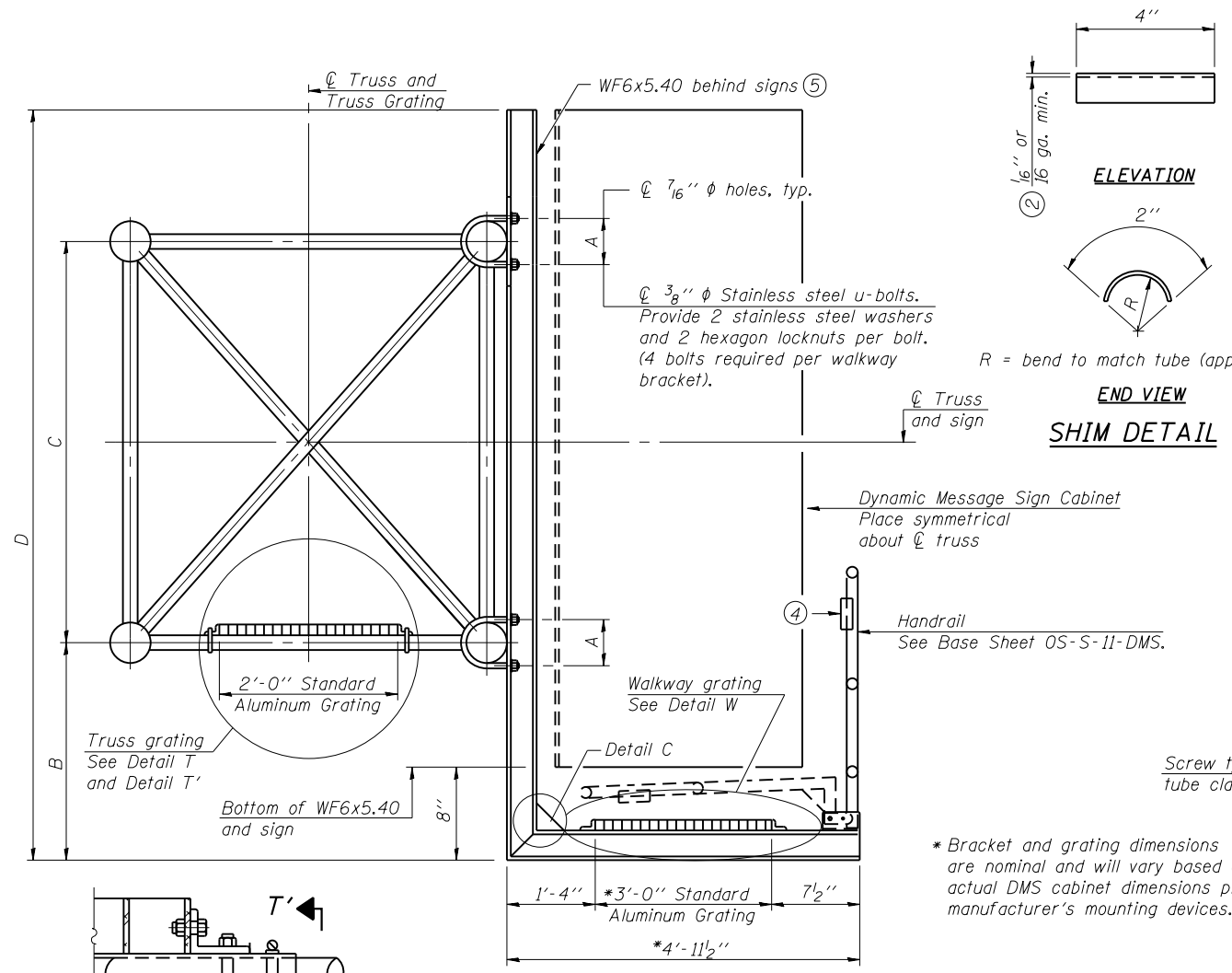
| | | |
|----------------------------|-----------------|-----------|
| USER NAME = ikelite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.2' = 1" in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SHEET NO. 11 OF 16 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 286 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in. per bar, a depth of 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

| Structure Number | Station | A | ⑥ B | C | ⑥ D |
|------------------|---------|---------|-------|-------|-------|
| ISO161090L081.4 | 3128+87 | 7'-3/8" | 1'-1" | 7'-0" | 8'-7" |
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- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10-DMS 6-1-12



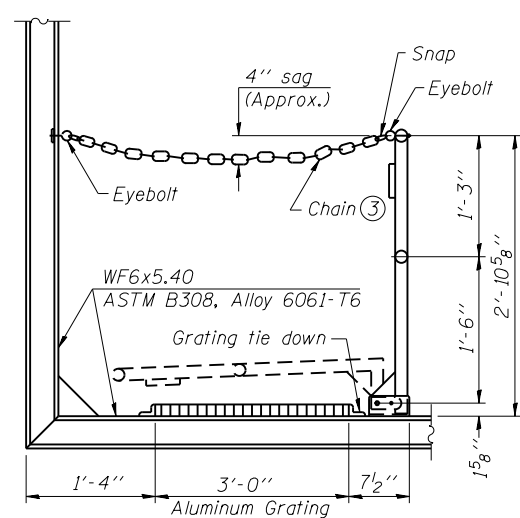
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|---------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = @2' = 1" in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

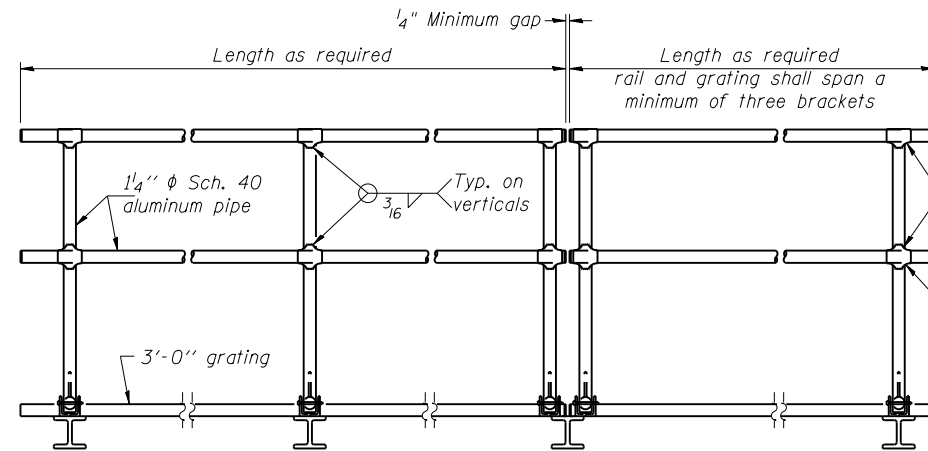
OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SHEET NO. 12 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 287 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

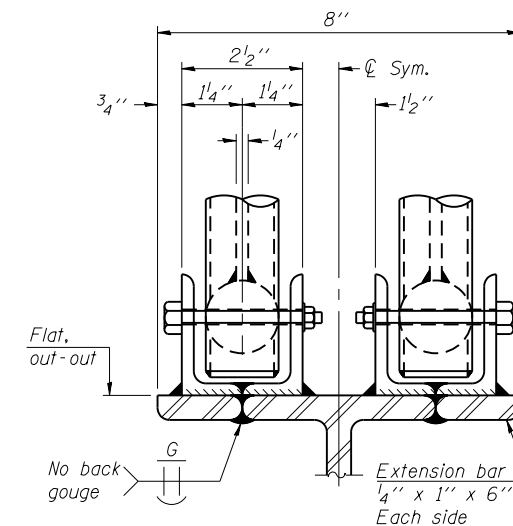


SIDE ELEVATION
(Showing safety chain w/o sign)



FRONT ELEVATION

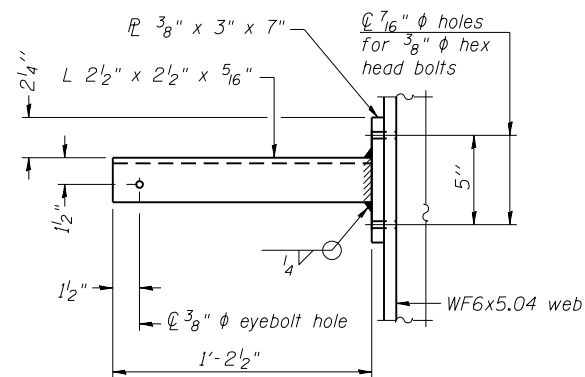
① Install standard force-fit end caps or weld $\frac{1}{8}$ " end plates with $\frac{1}{8}$ " c.f.w. and grind smooth. (All rail ends)
Fittings-ASTM B26, Alloy 356-T7 or $\frac{1}{2}$ " ϕ aluminum pipe



ELEVATION AT HANDRAIL JOINT ④

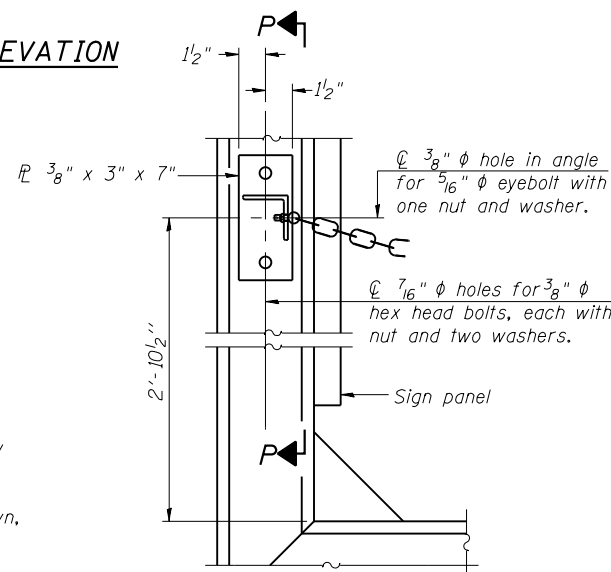
HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



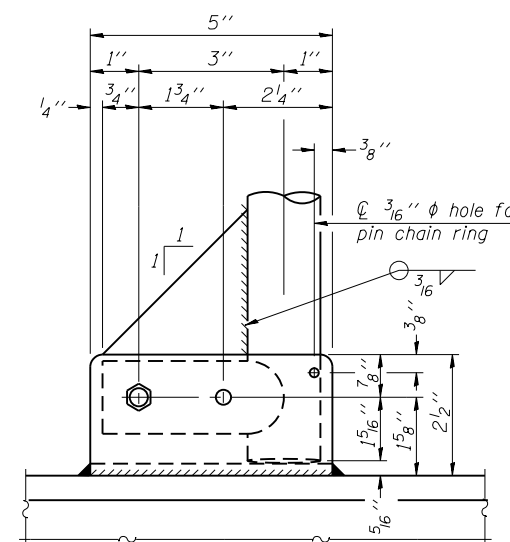
SECTION P-P

- ② Horizontal handrail member shall be continuous thru fitting. Provide $\frac{7}{16}$ " ϕ hole in fitting for $\frac{3}{8}$ " ϕ bolt. Field drill $\frac{7}{16}$ " ϕ hole in horizontal rail member. Provide washer and locknut for bolt. (Use $\frac{5}{16}$ " eyebolts in $\frac{7}{16}$ " ϕ holes on top rail at ends only.)
- ③ $\frac{3}{16}$ " type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

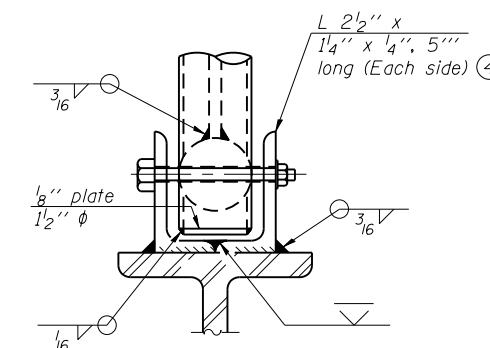


ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"

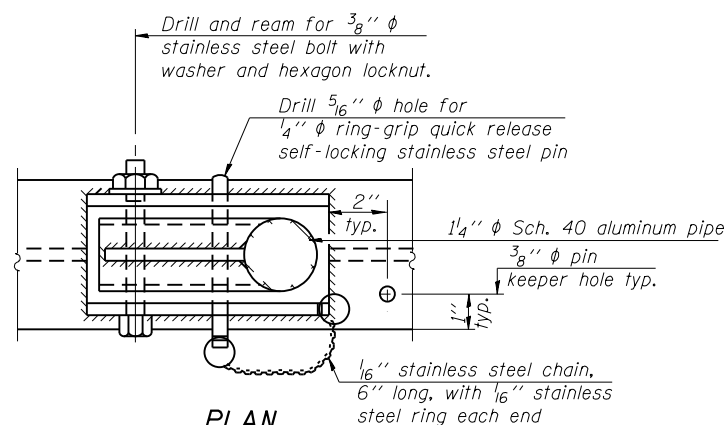


SIDE ELEVATION

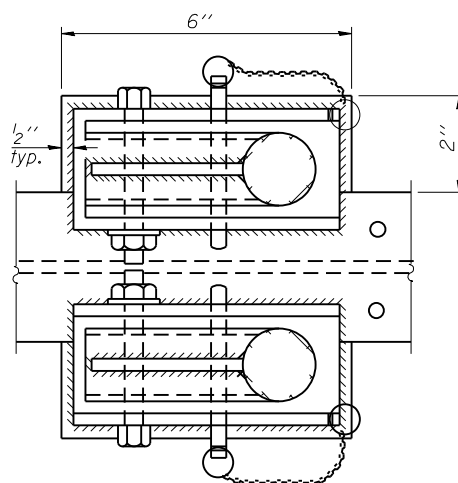


FRONT ELEVATION

See "ELEVATION" at right for dimensions.

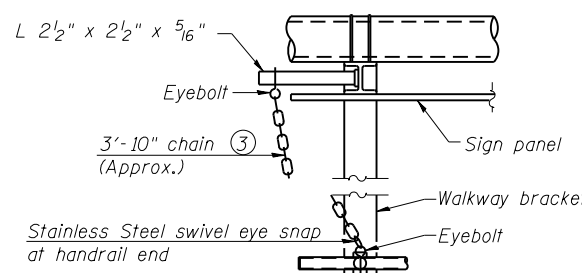


PLAN
DETAIL E HANDRAIL HINGE



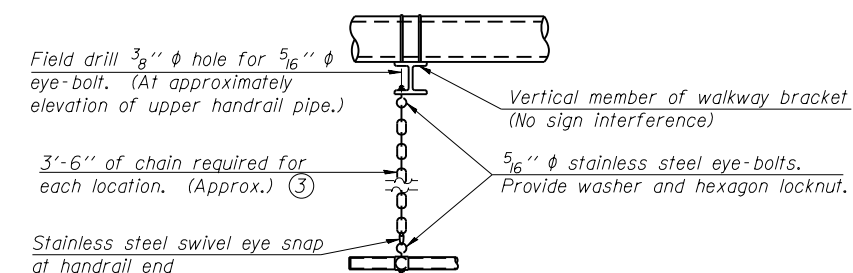
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

OS-A-11-DMS

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.25" = 1' - 0" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

SHEET NO. 13 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 288 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

BAR LIST - EACH FOUNDATION

| Bar | Number | Size | Length | Shape |
|--|--------|------|-----------|-------|
| v4(E) | 16 | #9 | F less 5" | — |
| #4 bar spiral (E) - see Side Elevation | | | | |

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

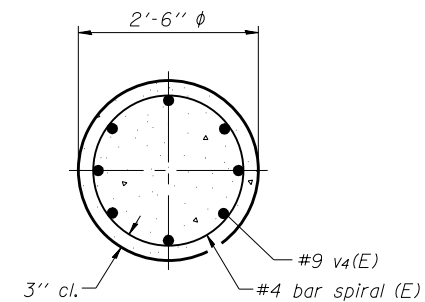
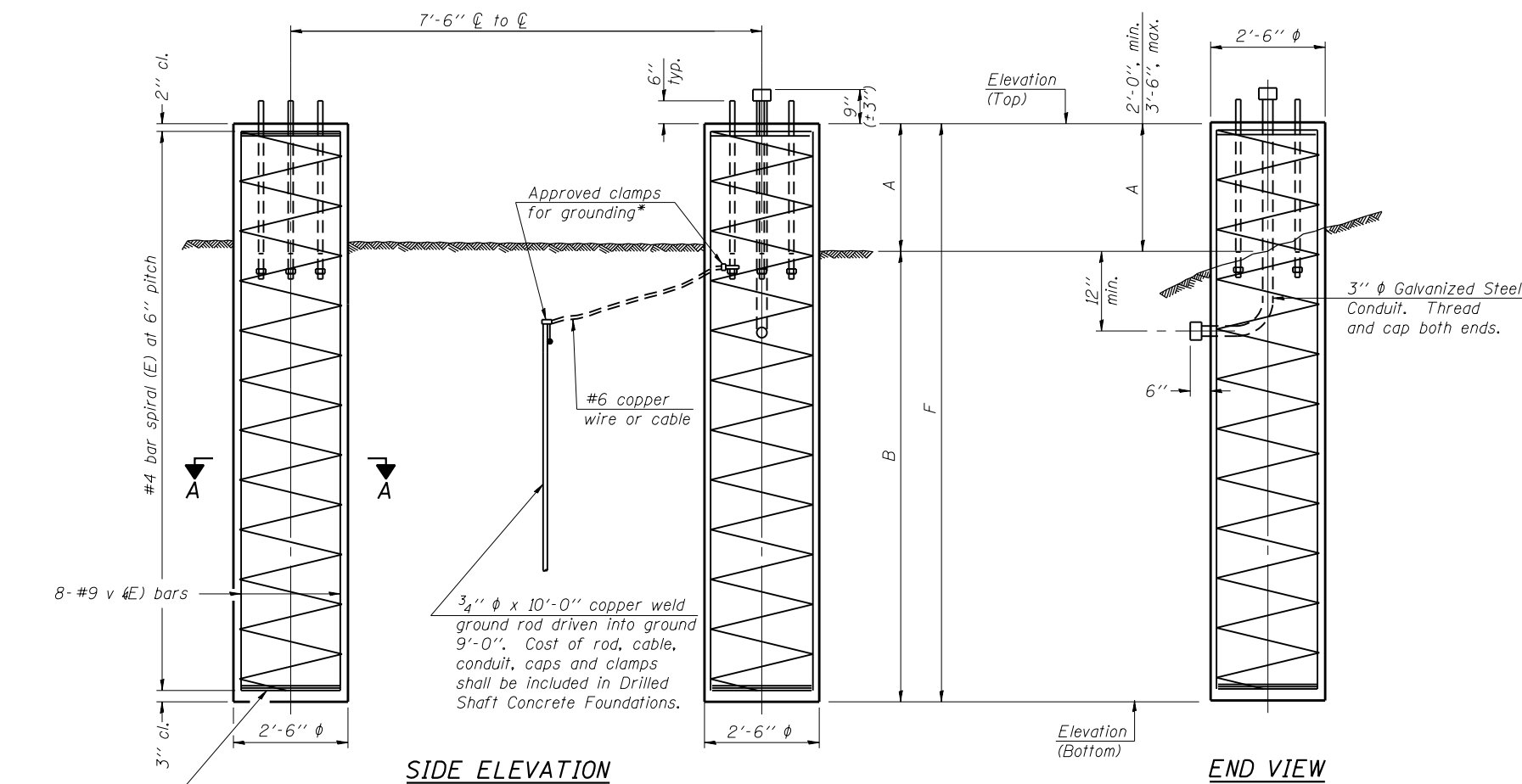
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

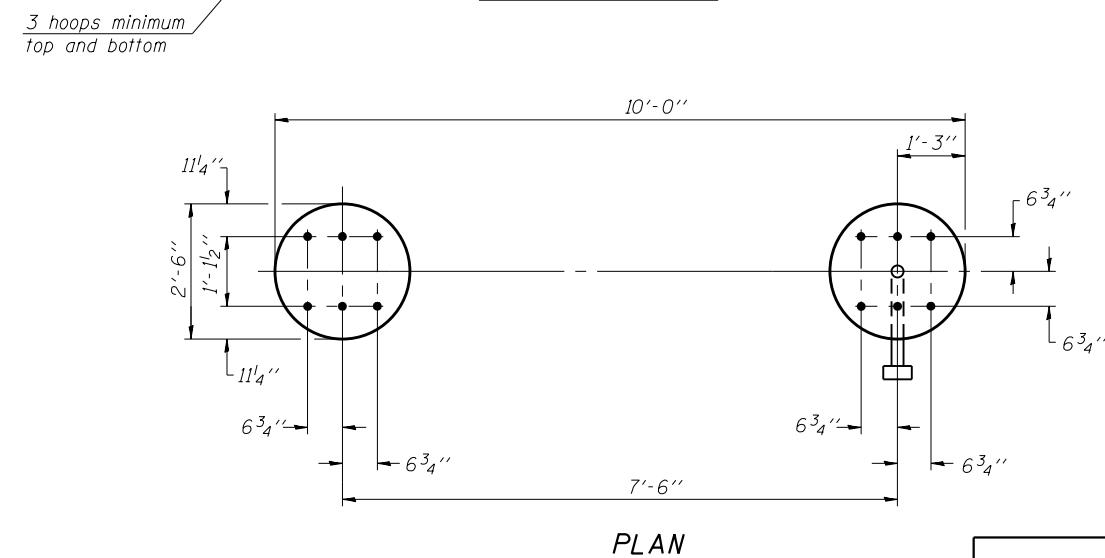
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 8" Ø SUPPORT FRAME
TYPE I-A TRUSS**

| Structure Number | Station | Left Foundation | | | Right Foundation | | | Class DS Concrete (Cu. Yds.) | | | | |
|------------------|---------|-----------------|------------------|---|------------------|---|---------------|------------------------------|------------------|--------|--------|-----|
| | | Elevation Top | Elevation Bottom | A | B | F | Elevation Top | | Elevation Bottom | A | B | F |
| ISO161090L079.9 | 15+50 | | | | | | 642.12 | 625.12 | 3'-6" | 13'-6" | 17'-0" | 6.2 |
| | | | | | | | | | | | | |
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OS4-F2

8-21-13



| | | |
|---------------------------|-----------------|-----------|
| USER NAME = kkalite | DESIGNED ITC | REVISED - |
| | CHECKED APC | REVISED - |
| PLOT SCALE = 1/2" = 1'-0" | DRAWN LK | REVISED - |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
TYPE I-A DRILLED SHAFT DETAILS**

SHEET NO. 14 OF 16 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 289 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

BAR LIST - EACH FOUNDATION

| Bar | Number | Size | Length | Shape |
|--|--------|------|-----------|-------|
| v4(E) | 24 | #9 | F less 5" | — |
| #4 bar spiral (E) - see Side Elevation | | | | |

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

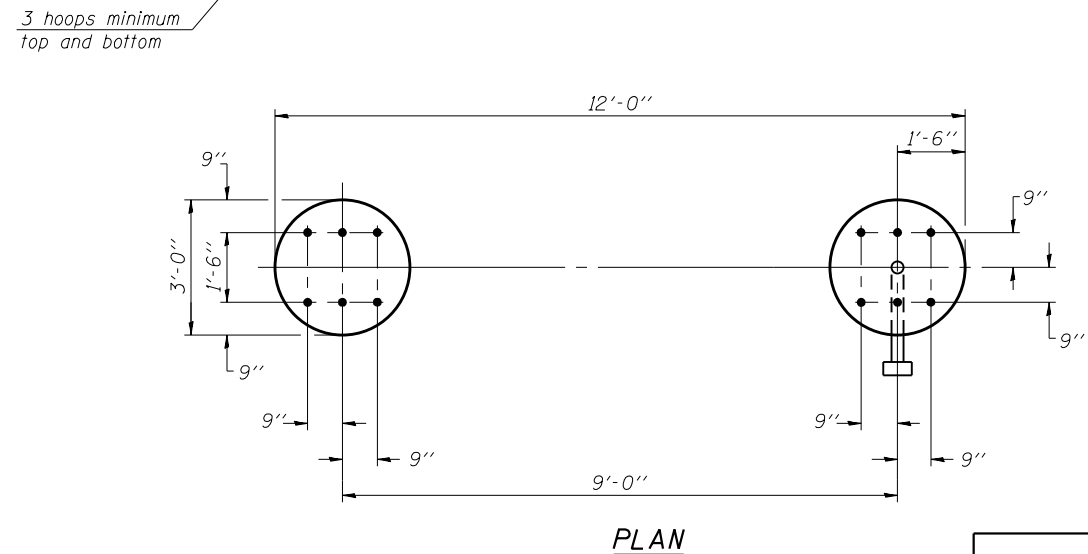
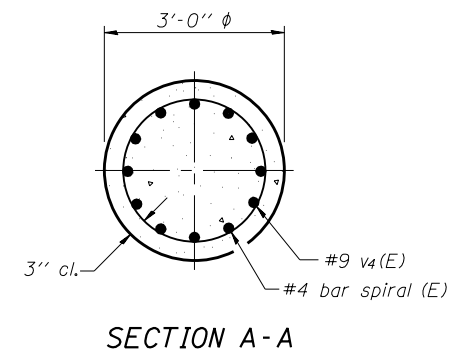
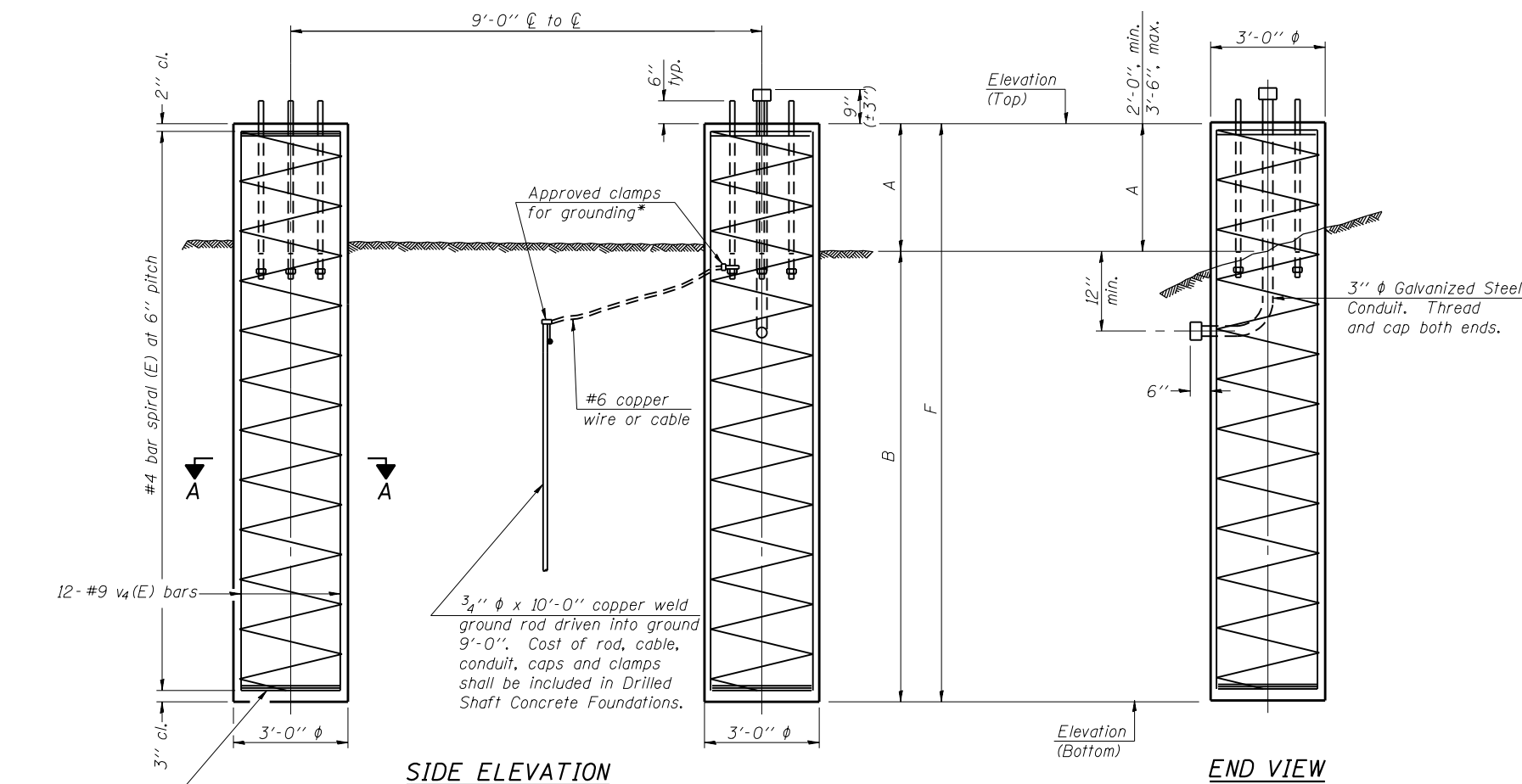
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 12" Ø SUPPORT FRAME
TYPE III-A TRUSS**

| Structure Number | Station | Left Foundation | | | Right Foundation | | | Class DS Concrete (Cu. Yds.) | | |
|------------------|---------|-----------------|------------------|---|------------------|------------------|-------|------------------------------|--------|------|
| | | Elevation Top | Elevation Bottom | F | Elevation Top | Elevation Bottom | F | | | |
| ISO161090L078.7 | 3020+18 | | | | 634.95 | 613.45 | 3'-6" | 18'-0" | 21'-6" | 11.2 |
| ISO161090L081.0 | 3107+50 | | | | 648.12 | 626.62 | 3'-6" | 18'-0" | 21'-6" | 11.2 |
| ISO161090L081.4 | 3128+87 | | | | 630.50 | 610.50 | 2'-0" | 18'-0" | 20'-0" | 10.4 |
| | | | | | | | | | | |
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OS4-F4

8-21-13



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikelste | DESIGNED ITC | REVISED - |
| | CHECKED APC | REVISED - |
| PLOT SCALE = 0.2" = 1' / in. | DRAWN LK | REVISED - |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
TYPE III-A DRILLED SHAFT DETAILS**

SHEET NO. 15 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 290 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

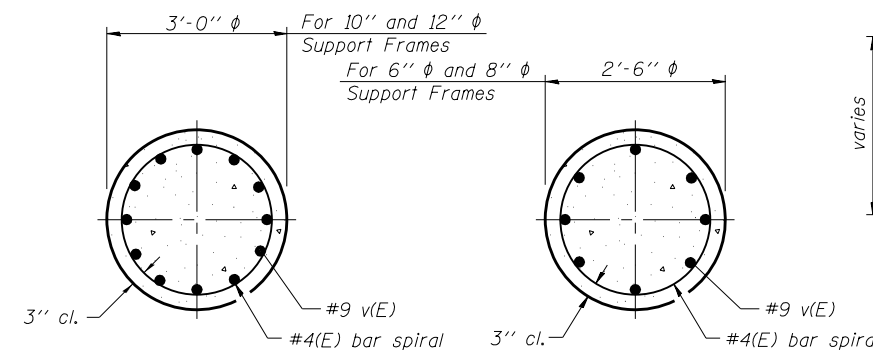
BAR LIST - EACH FOUNDATION

| Bar | Number | Size | Length | Shape |
|---------------------------------------|--------|------|--------------|-------|
| h(E) | 10 | #5 | M less 4" | — |
| s(E) | Varies | #5 | Varies | □ |
| v(E) | 16 | #9 | F less 0'-5" | — |
| v(E) | 24 | #9 | F less 0'-5" | — |
| #4(E) bar spiral - see Side Elevation | | | | |

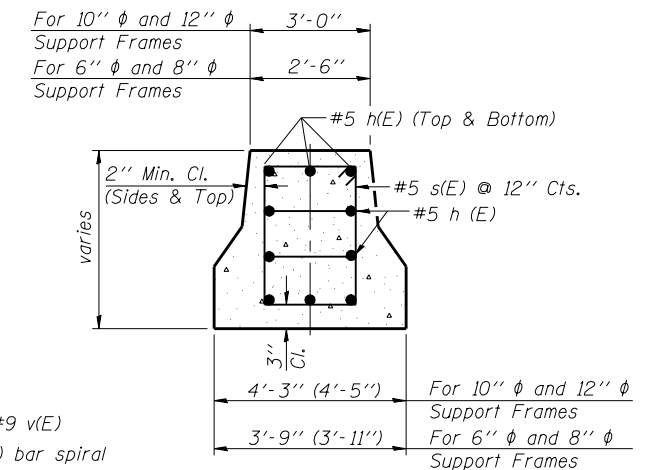
6" φ and 8" φ Support Frame
10" φ and 12" φ Support Frame

| Pipe Support Frames | cc | M | a | a/2 |
|---------------------|-------|--------|-----------|--------|
| 6" φ | 7'-0" | 9'-6" | 0'-11" | 5 1/2" |
| 8" φ | 7'-6" | 10'-0" | 1'-1 1/2" | 6 3/4" |
| 10" φ | 8'-3" | 11'-3" | 1'-3" | 7 1/2" |
| 12" φ | 9'-0" | 12'-0" | 1'-6" | 9" |

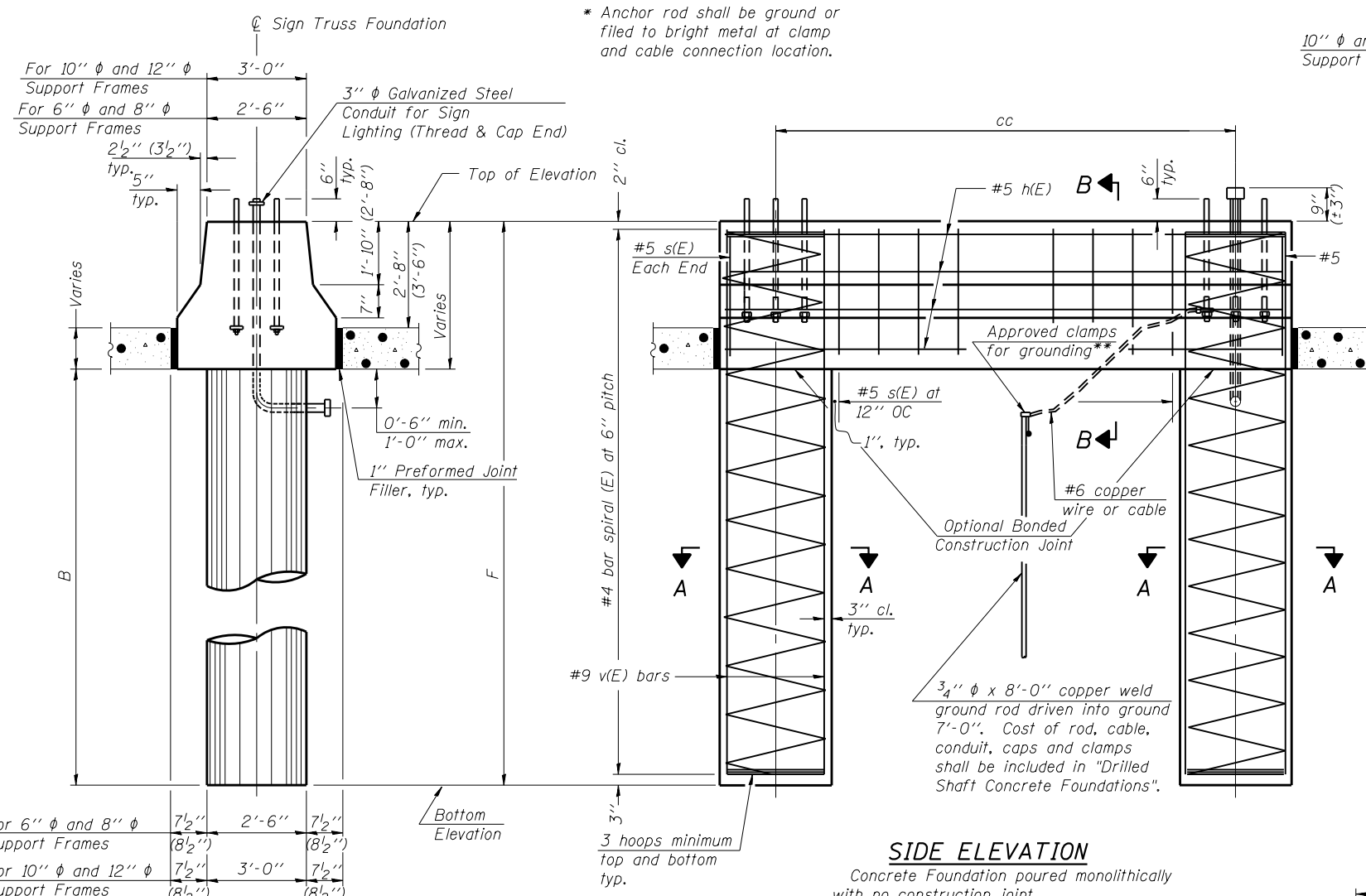
All dimensions in parenthesis are for 42" high barrier.



SECTION A-A

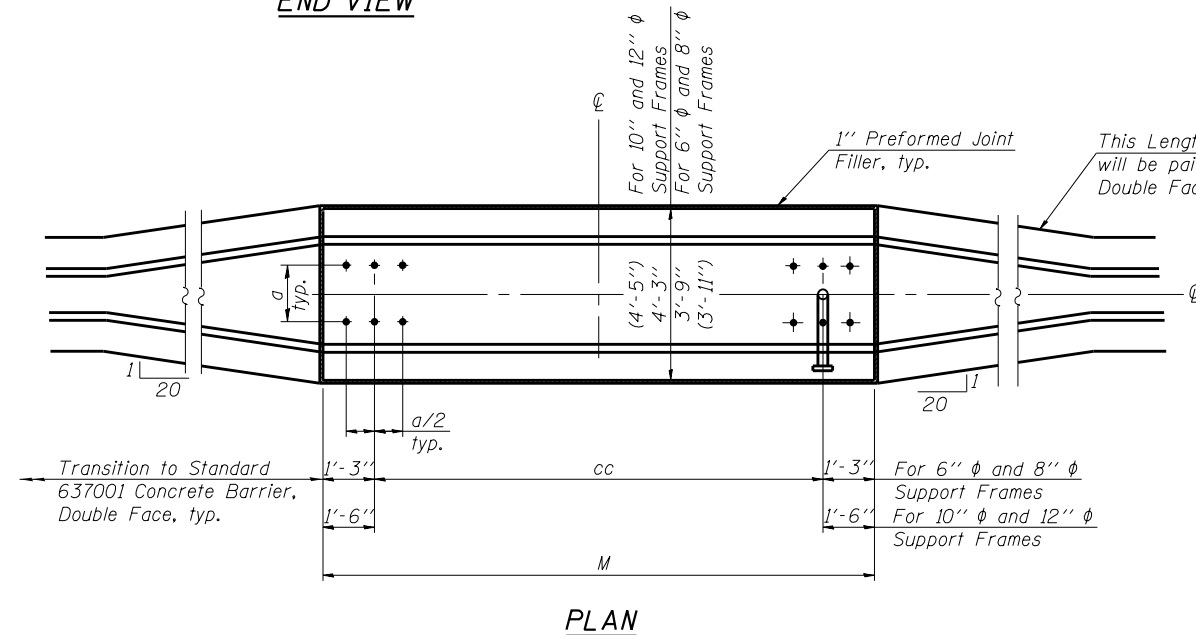


SECTION B-B

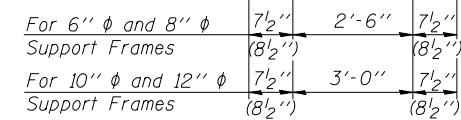


SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



PLAN



END VIEW

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

For 10" φ and 12" φ Support Frames 3'-0"
For 6" φ and 8" φ Support Frames 2'-6"
3" φ Galvanized Steel Conduit for Sign Lighting (Thread & Cap End)
2 1/2" (3 1/2") typ.
5" typ.
6" typ.
1'-10" (2'-8")
7" typ.
2'-8" (3'-6")
Varies
Top of Elevation
2" cl.
0'-6" min. 1'-0" max.
1" Preformed Joint Filler, typ.

cc

#5 s(E) Each End

#5 s(E) at 12" OC

#9 v(E) bars

3 hoops minimum Top and bottom

3"

1" Preformed Joint Filler, typ.

For 10" and 12" φ Support Frames (4'-5")
For 6" φ and 8" φ Support Frames (3'-9") (3'-11")

1" Preformed Joint Filler, typ.

a/2 typ.

cc

M

For 6" φ and 8" φ Support Frames 1'-3"
For 10" φ and 12" φ Support Frames 1'-6"

20

20

OS4-MED

8-21-13



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.25" = 1' - 0" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

SHEET NO. 16 OF 16 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 291 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

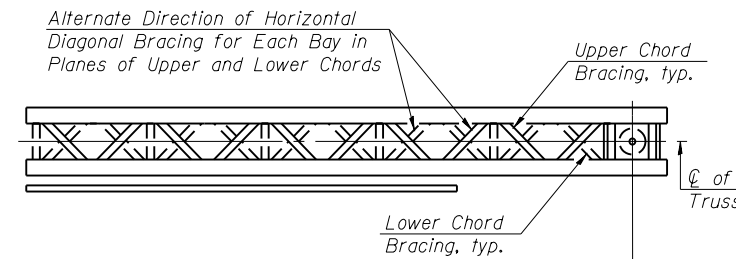
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

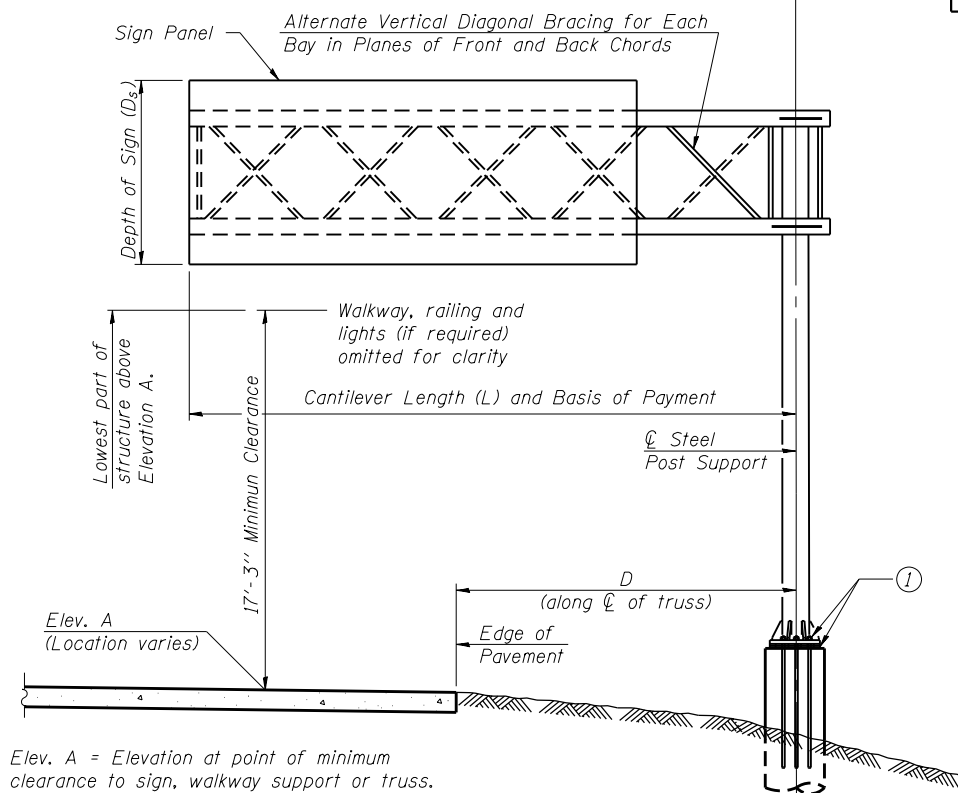
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

| Structure Number | Station | Design Truss Type | Cantilever Length (L) | Elev. A | Dim. D | D _s | Total Sign Area |
|------------------|---------|-------------------|-----------------------|---------|--------|----------------|-----------------|
| 1C016190R79.7 | 3032+92 | III-C-A | 40'-0" | 637.84 | 18'-8" | 19'-6" | 273 |
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| Truss Type | Maximum Sign Area | Maximum Length |
|------------|-------------------|----------------|
| I-C-A | 170 Sq. Ft. | 25 Ft. |
| II-C-A | 340 Sq. Ft. | 30 Ft. |
| III-C-A | 400 Sq. Ft. | 40 Ft. |

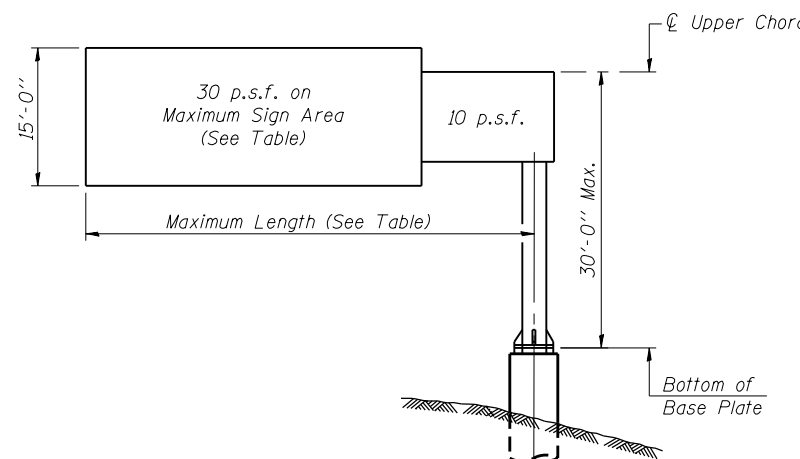


TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|---|----------|-------|
| OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A | Foot | |
| OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A | Foot | |
| OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A | Foot | 40 |
| OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A | Foot | |
| | | |
| DRILLED SHAFT CONCRETE FOUNDATIONS | Cu. Yds. | 12.7 |

OSC-A-1

8-21-13



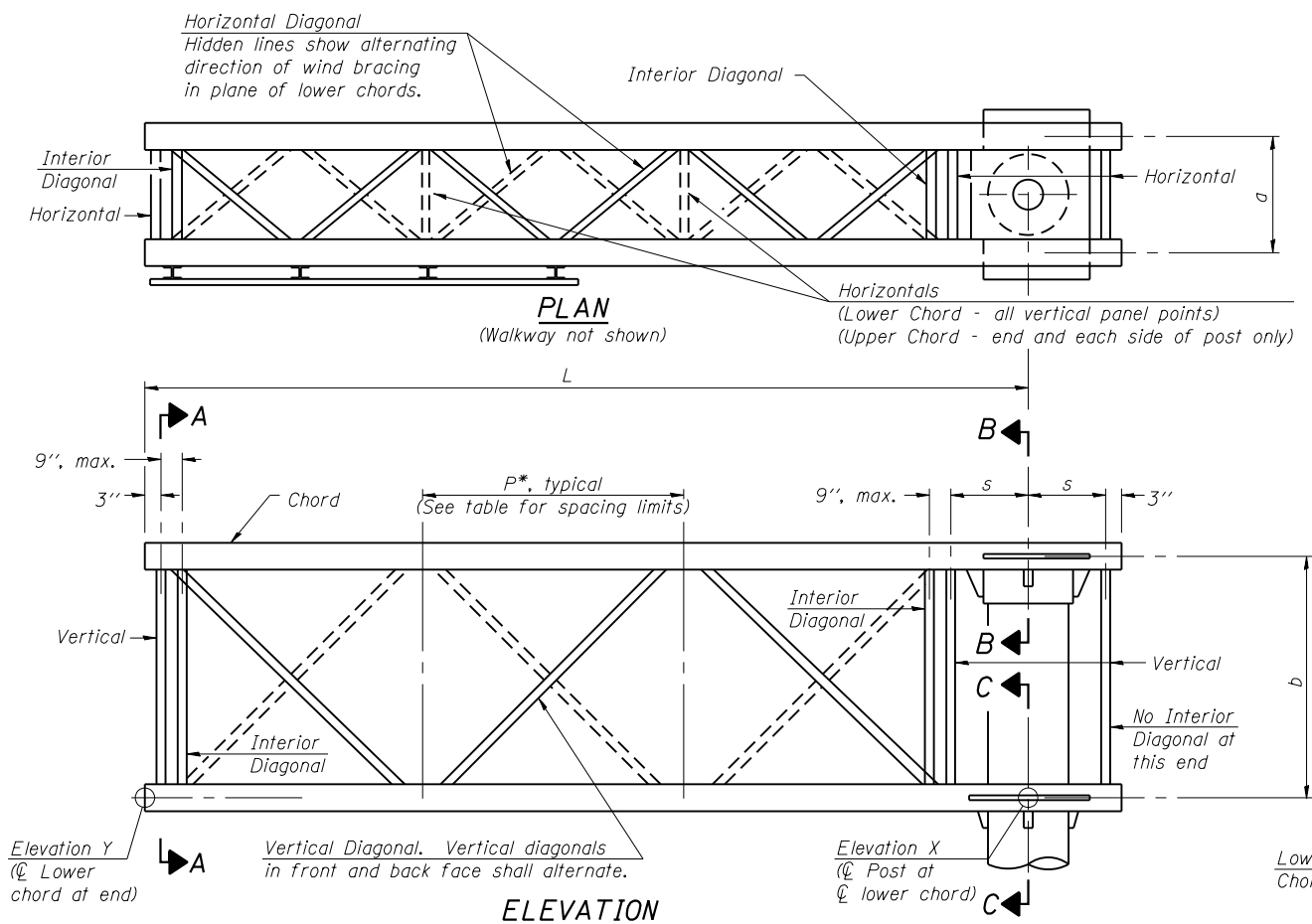
| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| | CHECKED APC | REVISED - |
| PLOT SCALE = 0.2' = 1" / in. | DRAWN LK | REVISED - |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SHEET NO. 1 OF 8 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 292 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

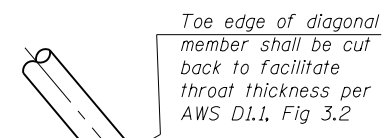
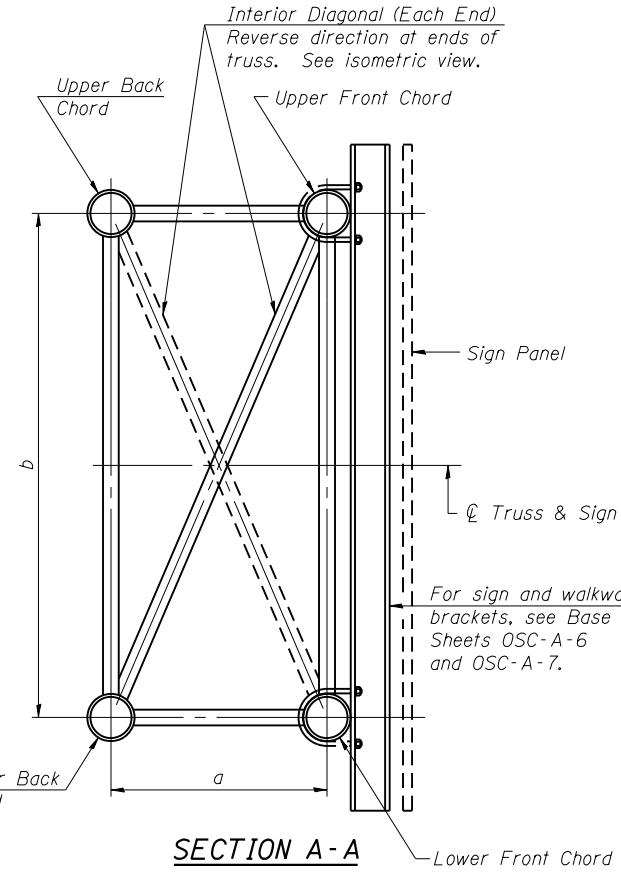
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

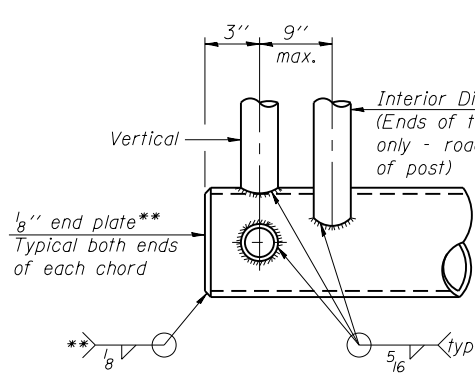
| Truss Type | Dimension "a" | Dimension "b" | Dimension "s" | Limits for Panel Spacing (P)* | Up. & Low. Chord | | Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals | |
|-----------------------|---------------|---------------|---------------|-------------------------------|------------------|-------|--|-------|
| | | | | | O.D. | Wall | O.D. | Wall |
| I-C-A | 24" | 54" | 16" | 36" min. to 48" max. | 5" | 5/16" | 2 1/2" | 5/16" |
| II-C-A | 36" | 66" | 21" | 42" min. to 54" max. | 6 1/2" | 5/16" | 3 1/4" | 5/16" |
| III-C-A (35' Max.) | 36" | 84" | 21" | 48" min. to 66" max. | 7" | 3/8" | 3 1/2" | 3/8" |
| III-C-A (>35' to 40') | 36" | 84" | 21" | 48" min. to 66" max. | 8" | 3/8" | 3 1/2" | 3/8" |

*P = $\frac{L - s - 3''}{\# \text{ Panels}}$

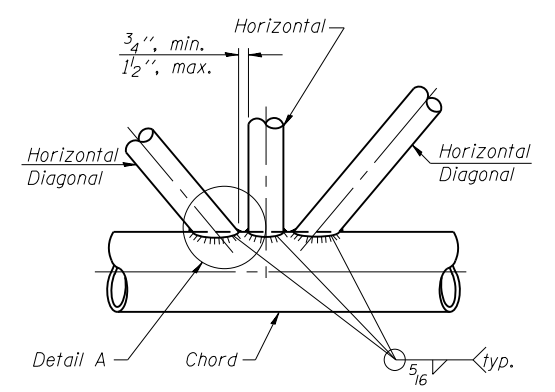
| Structure Number | Station | Truss Type | Design Length (L) | Number of Panels Per Unit | Panel Length (P)* |
|------------------|---------|----------------|-------------------|---------------------------|-------------------|
| 1C016190R79.7 | 3032+92 | III-C-A (>35') | 40' | 7 | 5'-5 5/8" |
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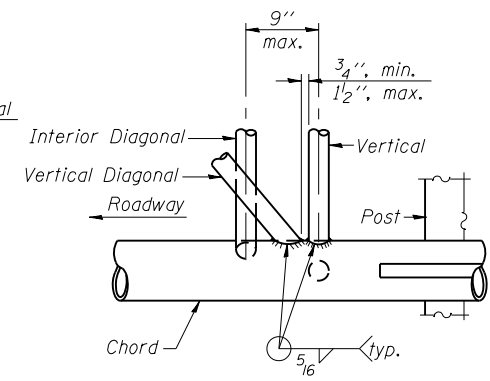
DETAIL A



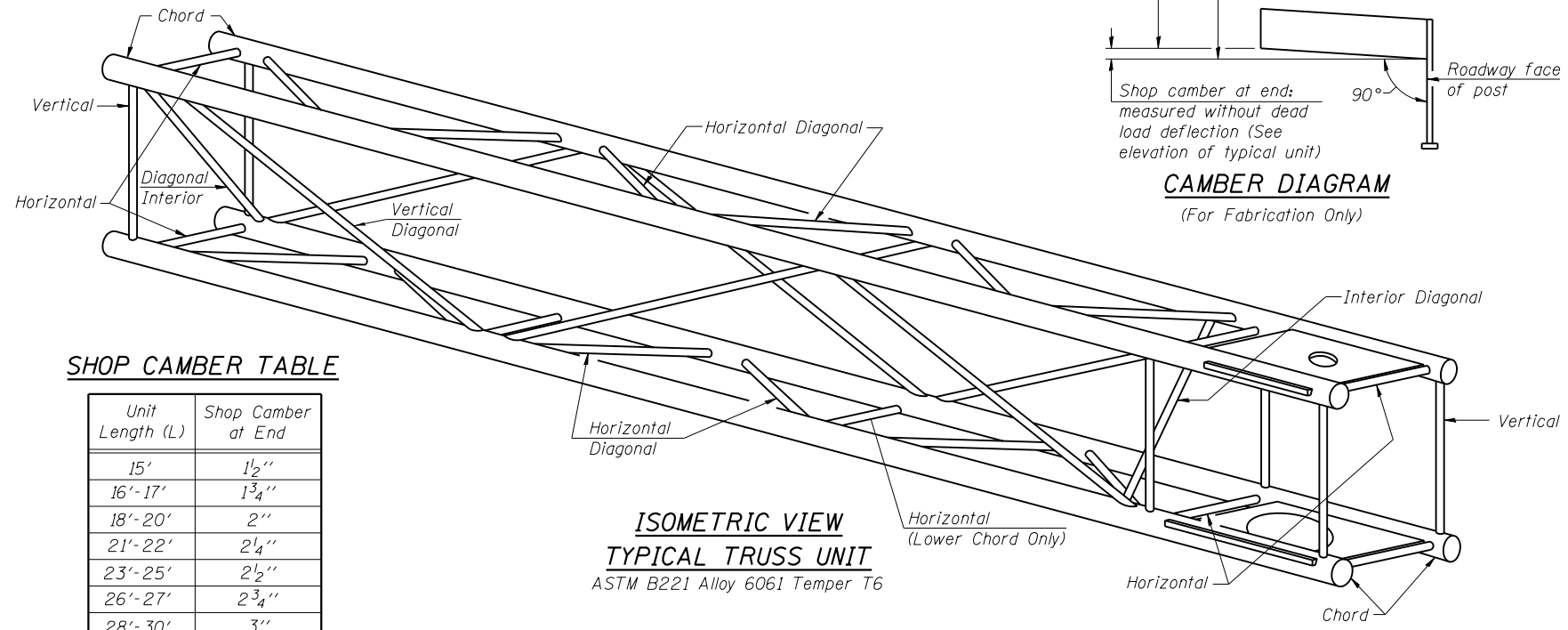
CANTILEVER END JOINT DETAIL



TRUSS INTERIOR JOINT DETAIL

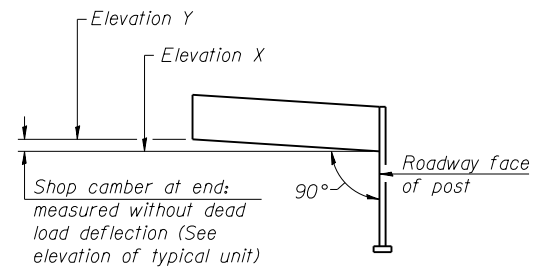


POST END JOINT DETAIL



SHOP CAMBER TABLE

| Unit Length (L) | Shop Camber at End |
|-----------------|--------------------|
| 15' | 1 1/2" |
| 16'-17' | 1 3/4" |
| 18'-20' | 2" |
| 21'-22' | 2 1/4" |
| 23'-25' | 2 1/2" |
| 26'-27' | 2 3/4" |
| 28'-30' | 3" |
| 31'-32' | 3 1/4" |
| 33'-35' | 3 1/2" |
| 36'-37' | 4" |
| 38'-40' | 4 1/2" |



OSC-A-2

6-1-12



| | | |
|-----------------------------|-----------------|-----------|
| USER NAME = ikelste | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.2" = 1' - 0" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

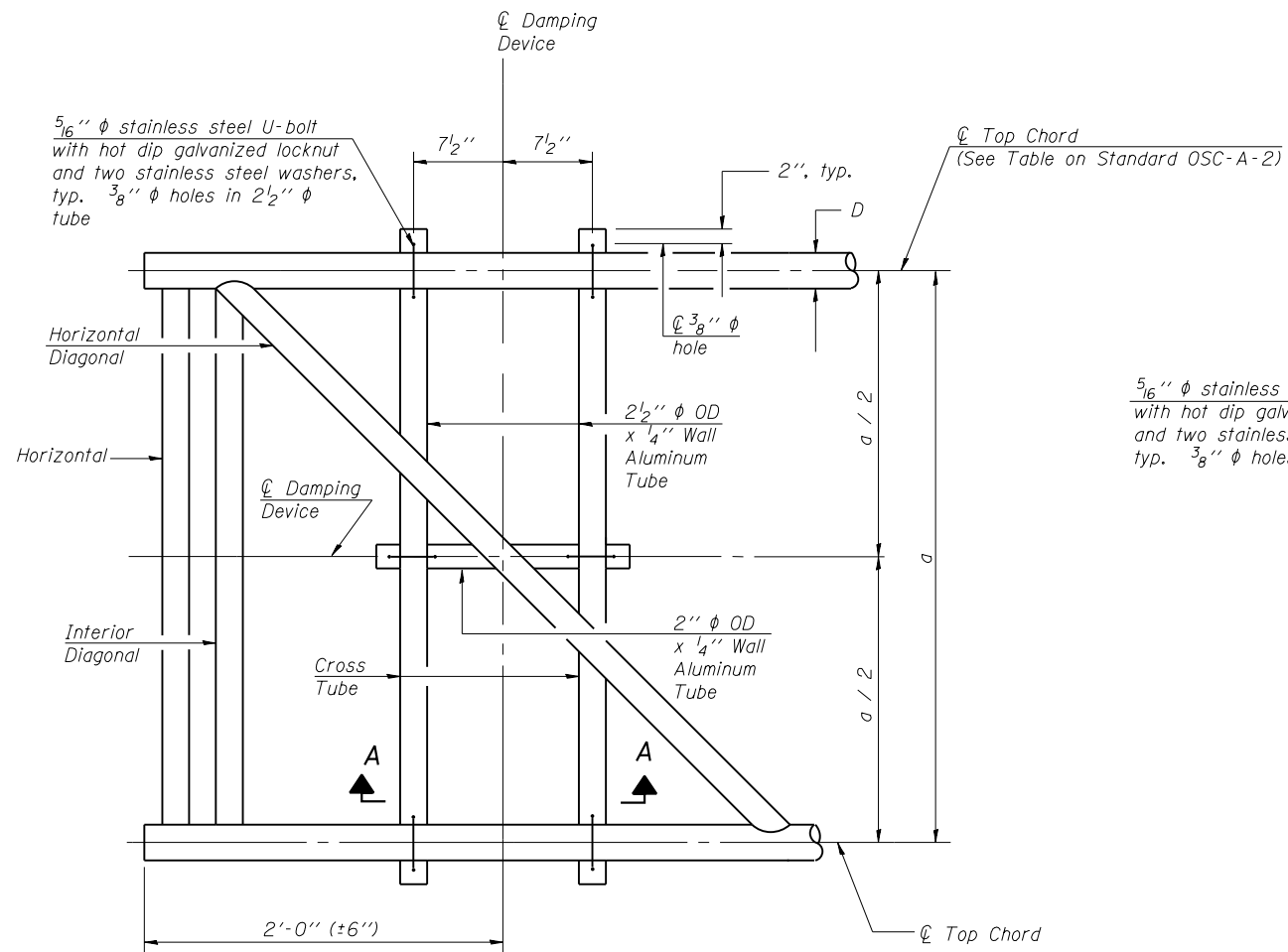
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

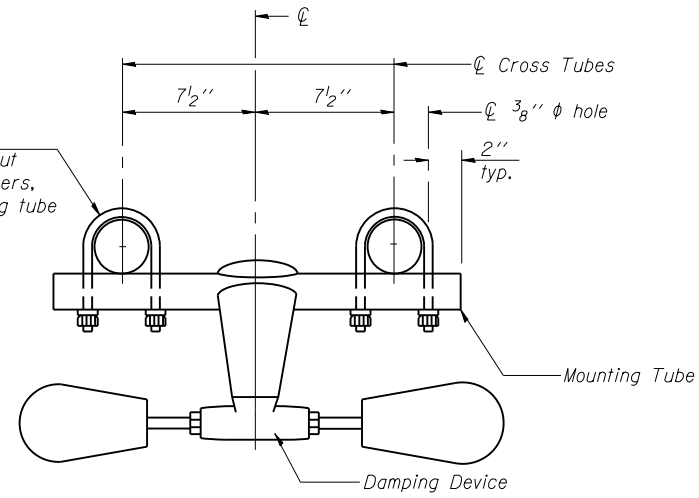
SHEET NO. 2 OF 8 SHEETS

| | | | | |
|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 293 |
| CONTRACT NO. 60Y39 | | | | |

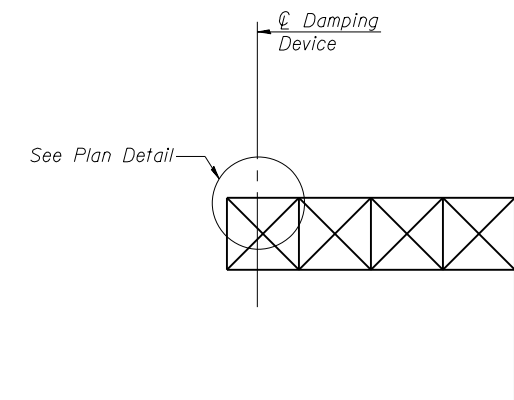
ILLINOIS FED. AID PROJECT



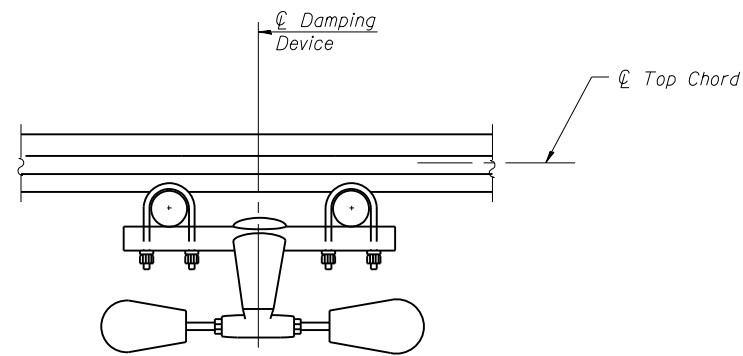
PLAN DETAIL



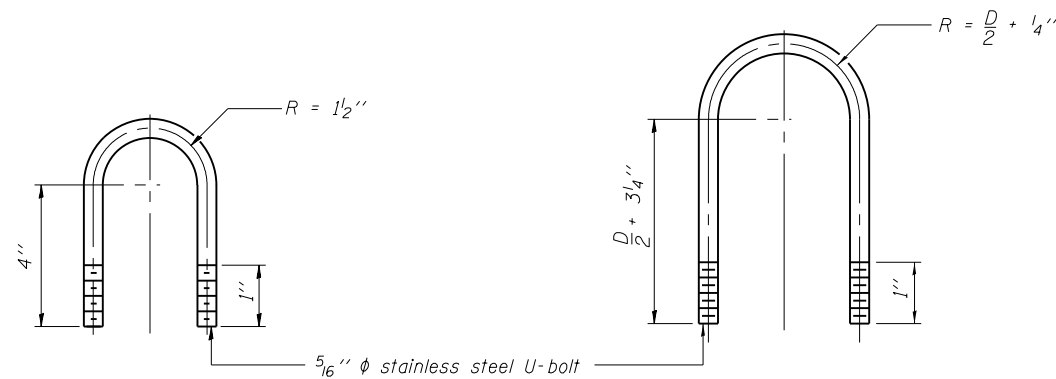
TRUSS DAMPING DEVICE CONNECTION DETAIL



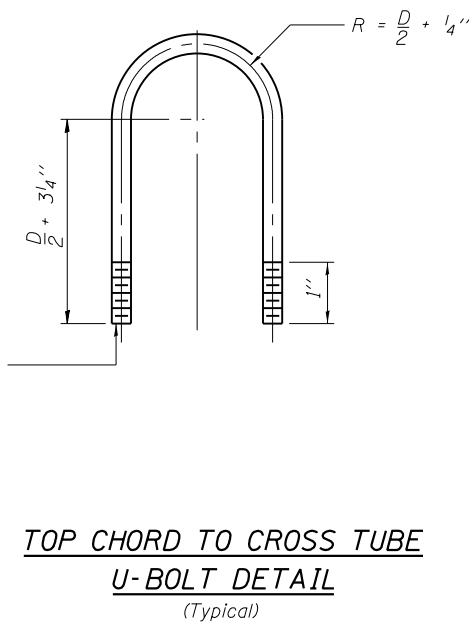
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

GENERAL NOTES

- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

OSC-A-D

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0:2' = 1" / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

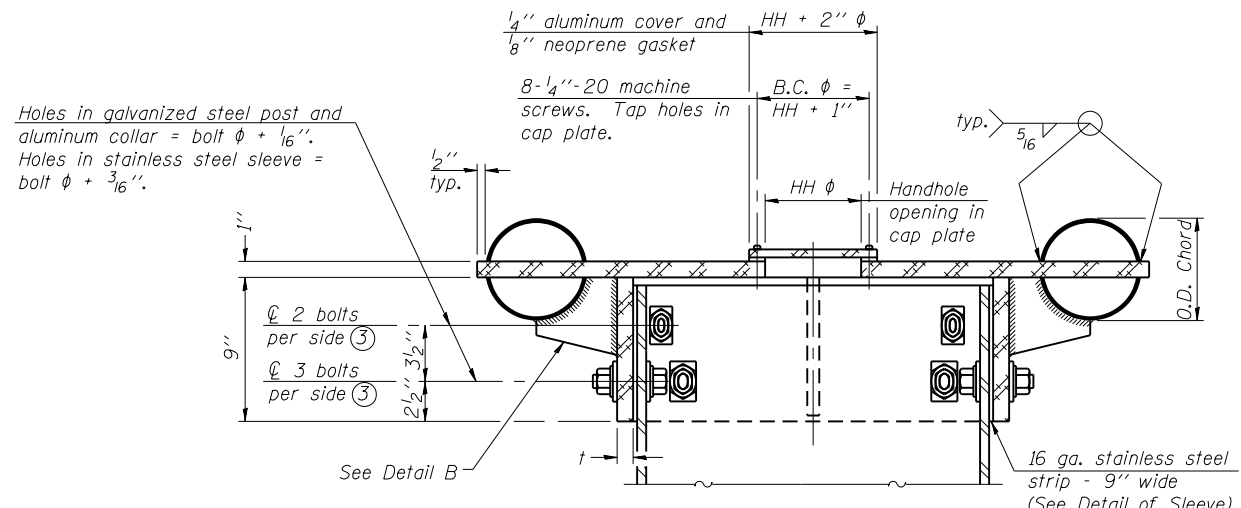
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

SHEET NO. 3 OF 8 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------------|--------|--------------|-----------|
| 90 | (1517 & 1415) R-2 | COOK | 734 | 294 |
| CONTRACT NO. 60Y39 | | | | |

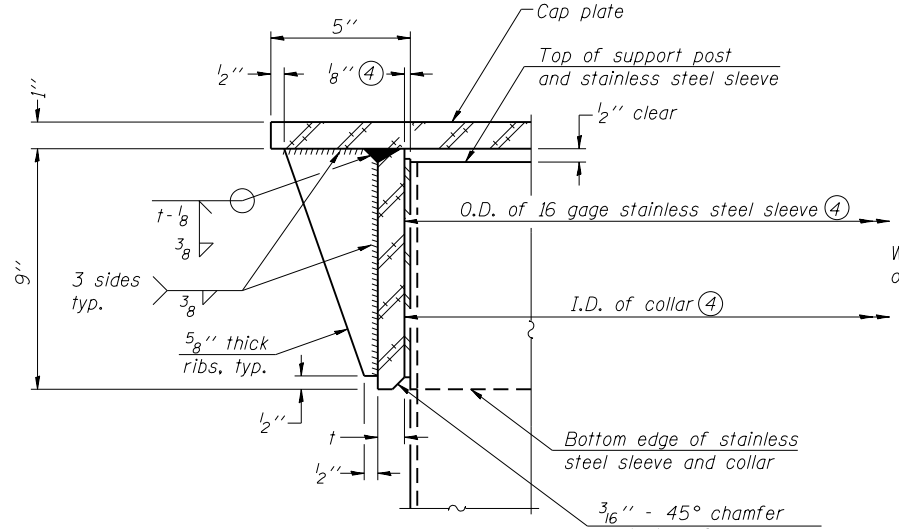
ILLINOIS FED. AID PROJECT



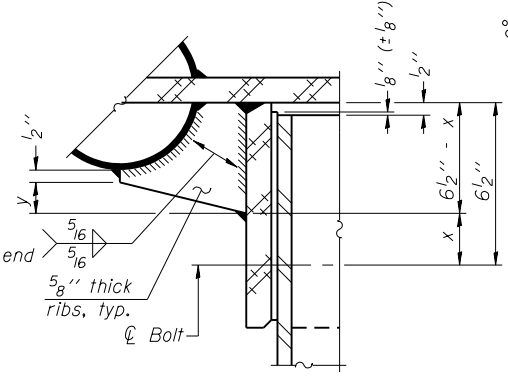
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

SECTION B-B

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

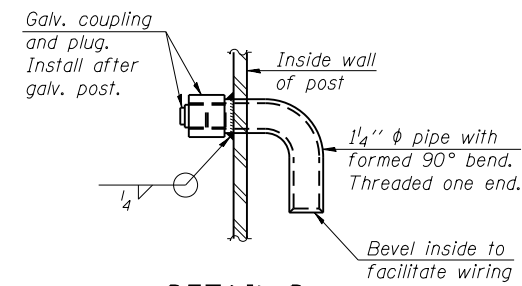


DETAIL A
(Two locations)

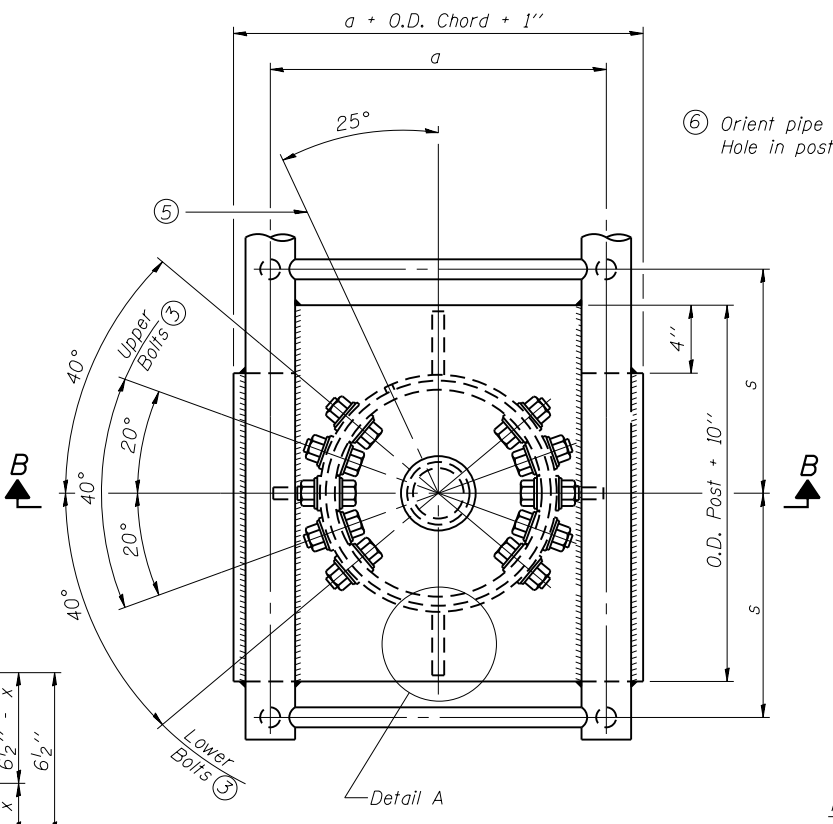


DETAIL B

Two locations (For details not shown, see Detail C)

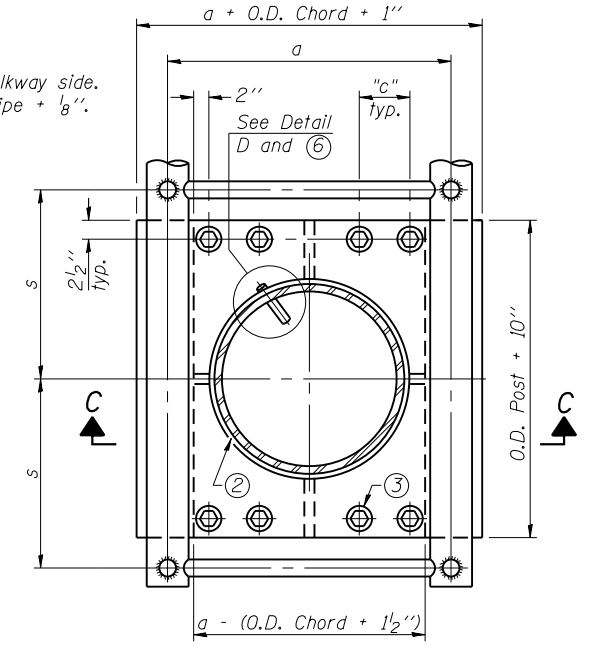


DETAIL D



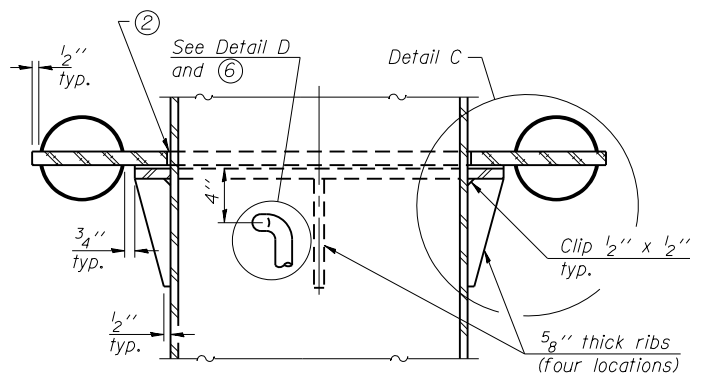
PLAN VIEW - TOP OF COLUMN

⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

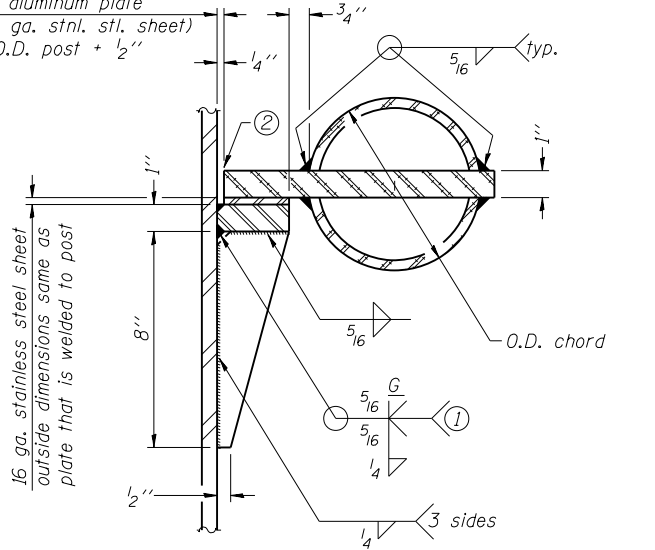


SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



SECTION C-C



DETAIL C

CONTOURED WASHERS

| Bolt Size | Contoured Washers | |
|-----------|-------------------|--------|
| | Hole Dia. | B |
| 7/8" | 1" | 2 1/2" |
| 1" | 1 1/8" | 3" |
| 1 1/4" | 1 3/8" | 3 1/4" |

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

| Truss Type | Post Size | Upper & Lower Connection Bolt Diameter ③ | Lower Juncture Bolt Spacing Dimension "c" ③ | Opening in Cap Plate "HH" | Collar Thickness (t) | Side Ribs | |
|-----------------------|------------------|--|---|---------------------------|----------------------|-----------|--------|
| | | | | | | x | y |
| I-C-A | 16" phi (83#/') | 7/8" | 3 1/4" | 8" | 5/8" | 1 3/4" | 2 1/4" |
| II-C-A | 24" phi (125#/') | 1" | 3 1/2" | 12" | 7/8" | 2" | 1 1/4" |
| III-C-A (35' max.) | 24" phi (125#/') | 1 1/4" | 3 1/2" | 12" | 7/8" | 2" | 1" |
| III-C-A (>35' to 40') | 24" phi (171#/') | 1 1/4" | 3 1/2" | 12" | 7/8" | 2" | 1" |

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12



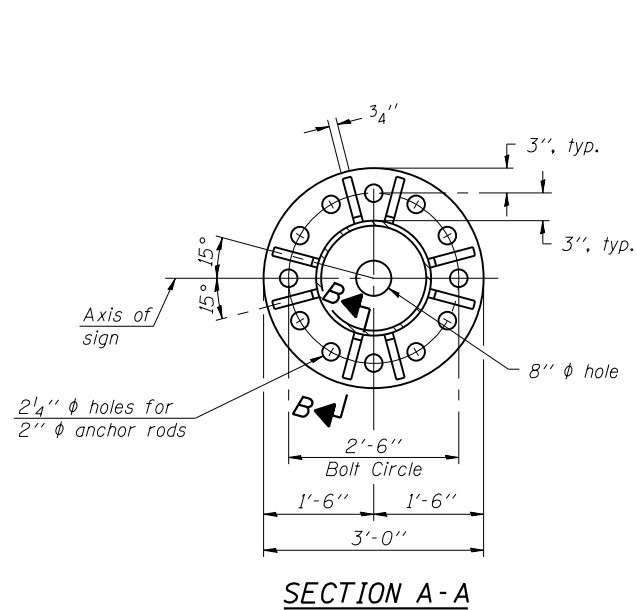
| | | |
|---------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = @2' = 1" in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

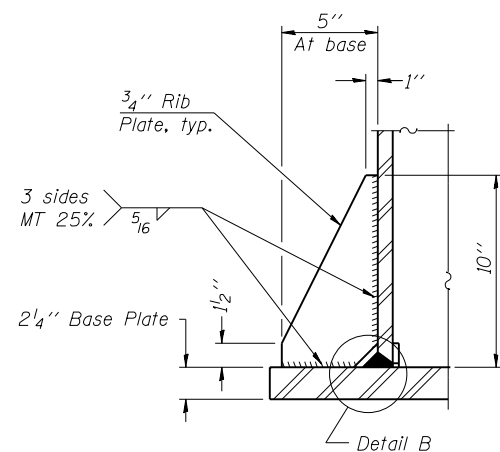
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 4 OF 8 SHEETS

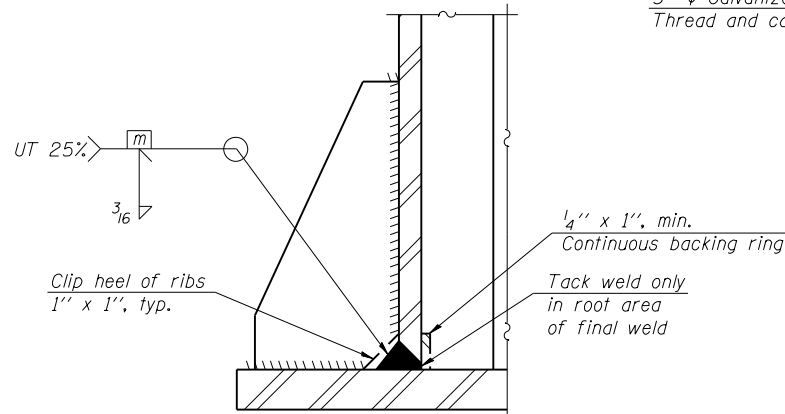
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|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 295 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



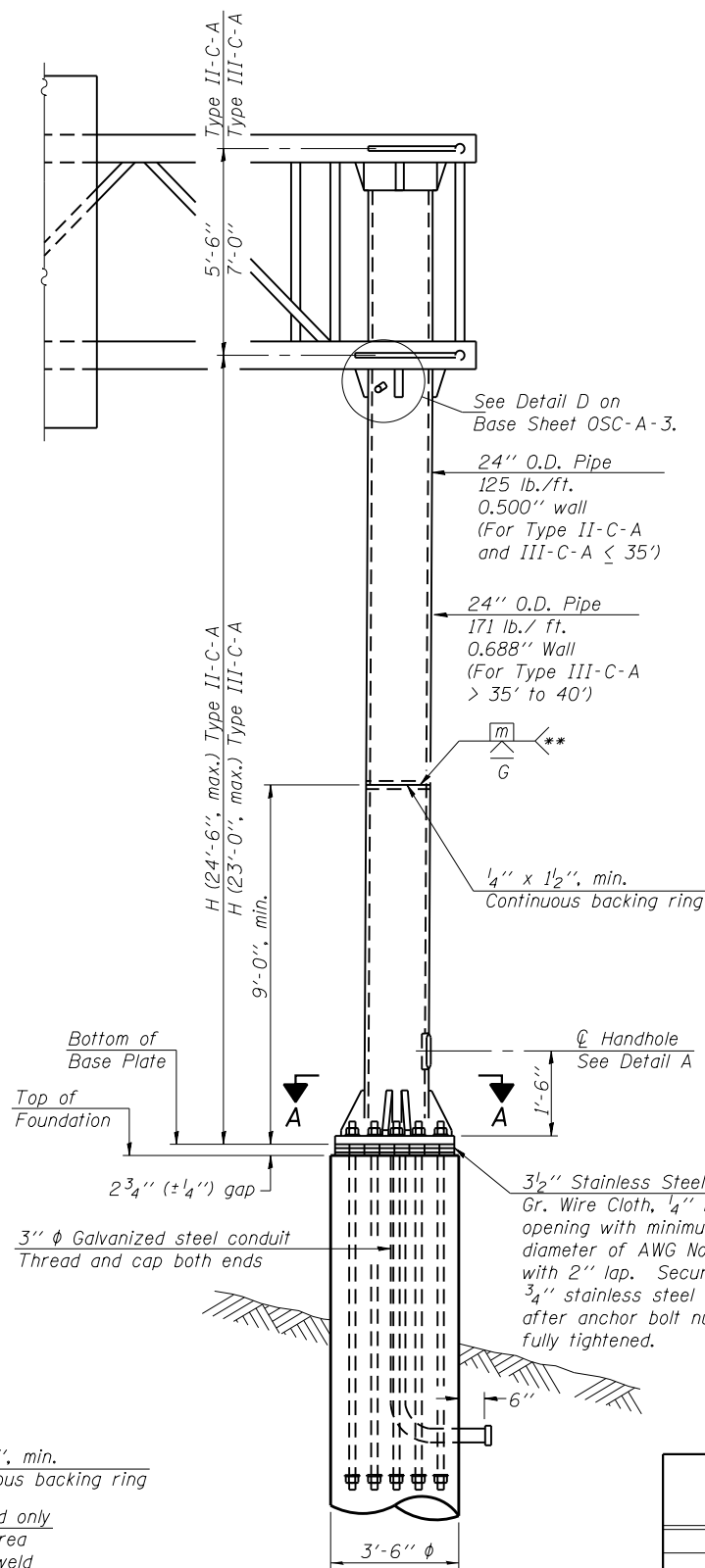
SECTION A-A



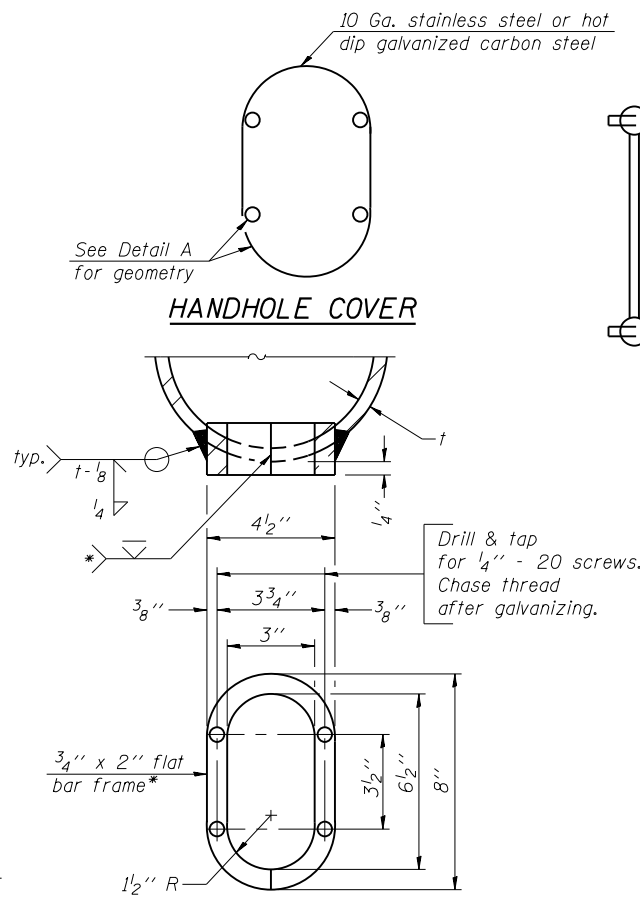
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details see Base Sheet OSC-A-9.

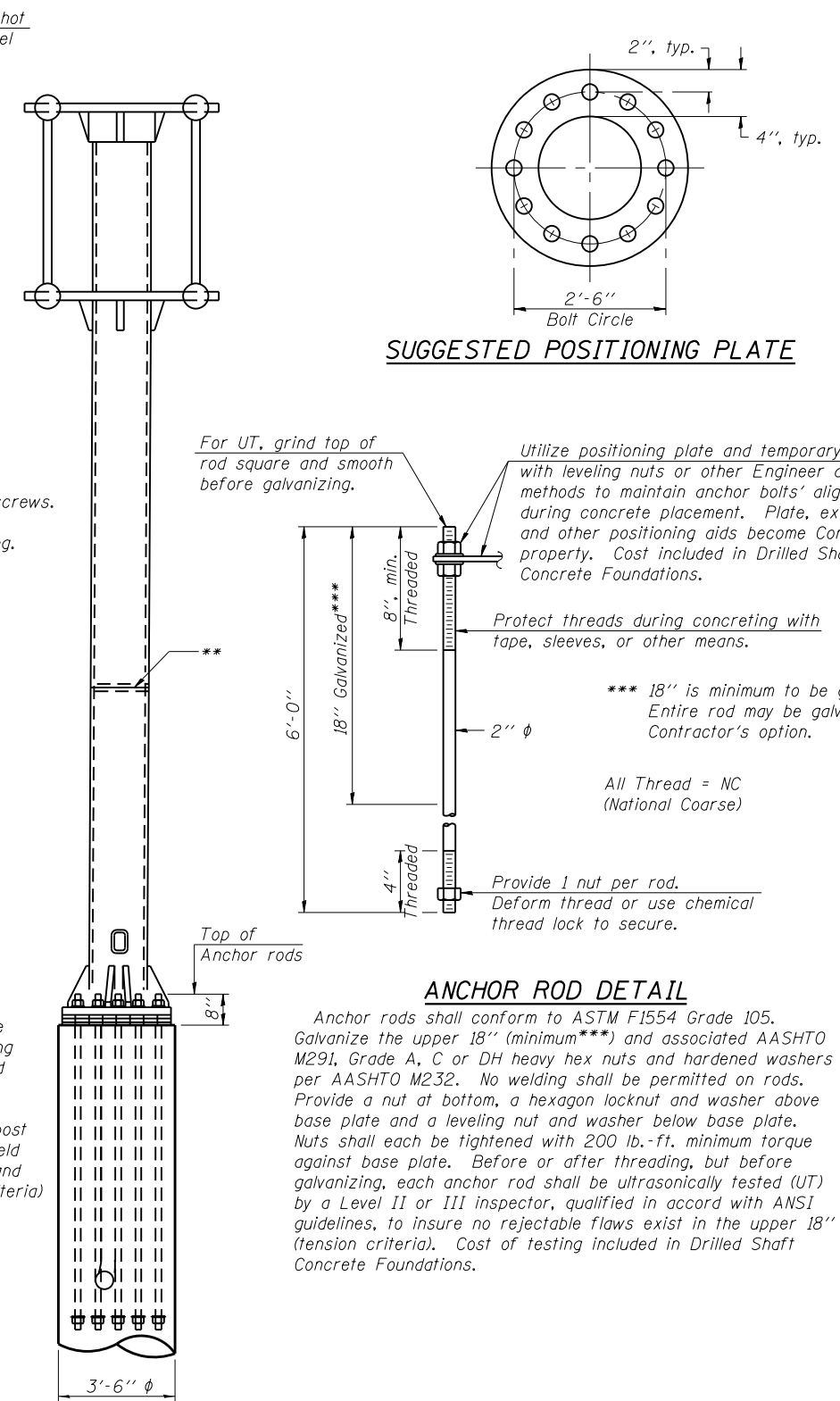


DETAIL A

- * Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

| Structure Number | Station | H |
|------------------|---------|------------|
| 1C016190R79.7 | 3032+92 | 21'-3 3/4" |
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Note: "H" based on 15'-0" or actual sign height, whichever is greater.



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

OSC-A-5

6-1-12



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = Ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 0.25" = 1' / in. | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

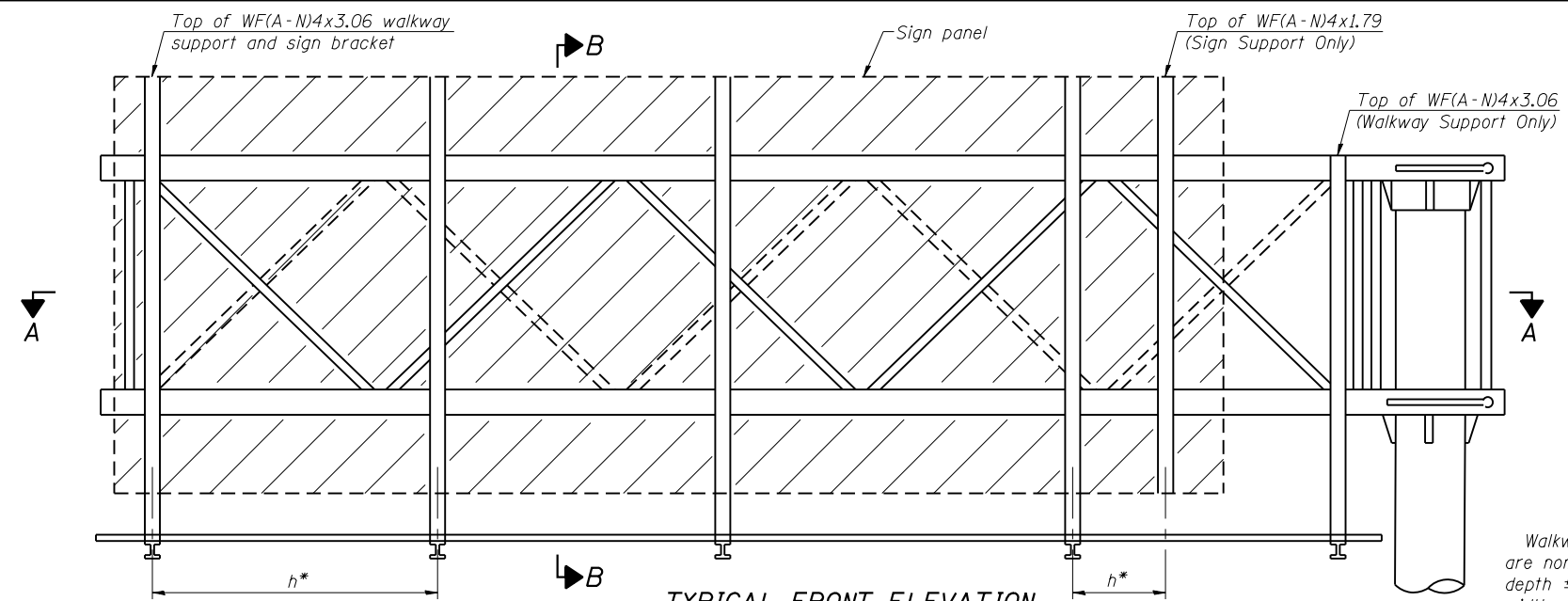
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

SHEET NO. 5 OF 8 SHEETS

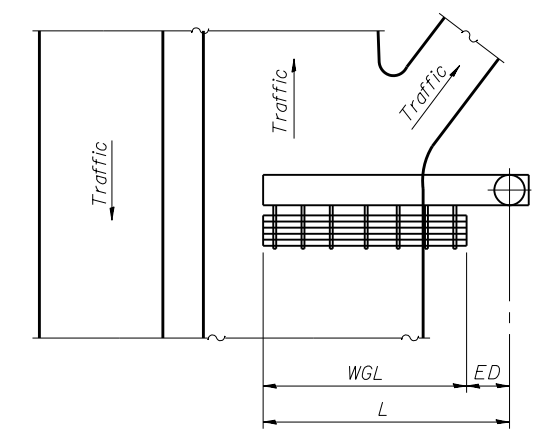
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|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 296 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT

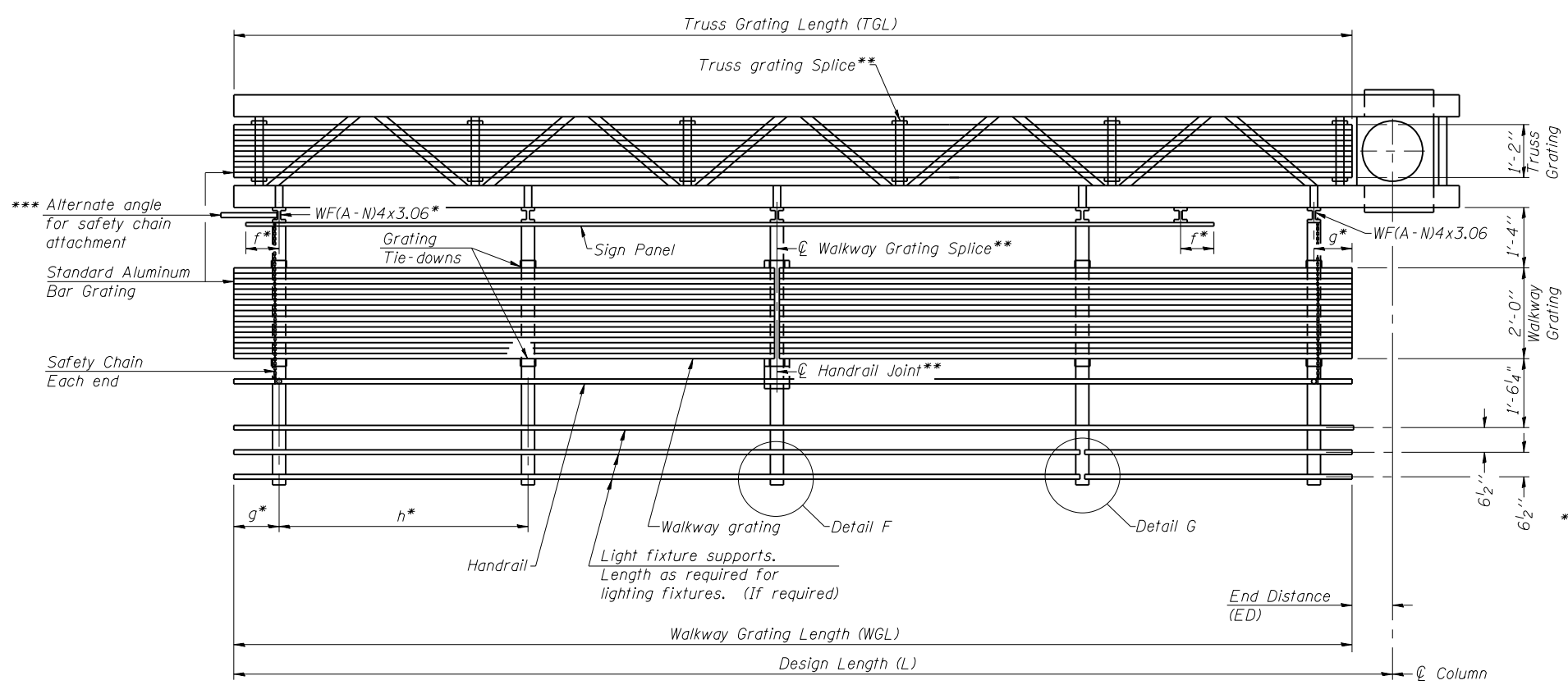


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ± 1/2", depth ± 1/2") based on available standard widths.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

| Structure Number | Station | WGL | ED | TGL |
|------------------|---------|-----|----|--------|
| 1C016190R79.7 | 3032+92 | | | 38'-6" |
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Notes:
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 $f = 12''$ maximum, $4''$ minimum (End of sign to ϕ of nearest bracket)
 $g = 12''$ maximum, $4''$ minimum (End of walkway to ϕ of nearest bracket)
 $h = 6'-0''$ maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

| Sign Width | | Number Brackets Required |
|--------------|-----------------------|--------------------------|
| Greater Than | Less Than or Equal To | |
| | 8'-0" | 2 |
| 8'-0" | 14'-0" | 3 |
| 14'-0" | 20'-0" | 4 |
| 20'-0" | 26'-0" | 5 |
| 26'-0" | 32'-0" | 6 |

OSC-A-6

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| | CHECKED ACF | REVISED - |
| PLOT SCALE = 1/2" = 1' / in. | DRAWN LK | REVISED - |
| PLOT DATE = 1/16/2018 | DATE 01/19/2018 | REVISED - |

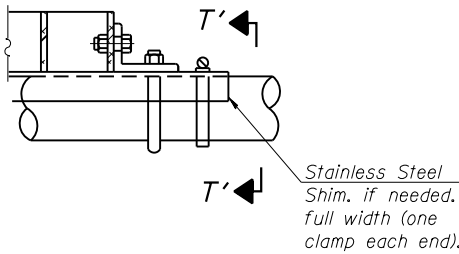
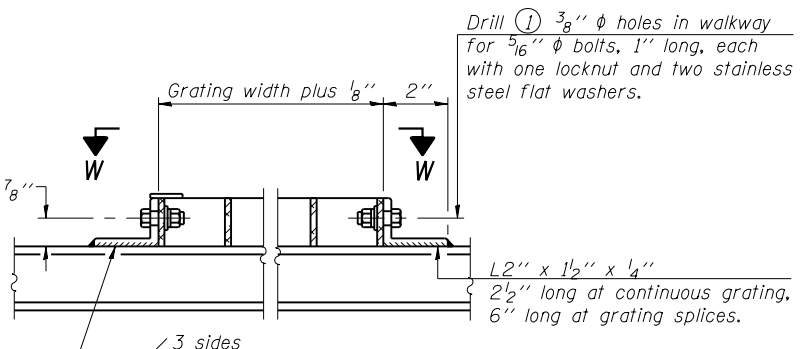
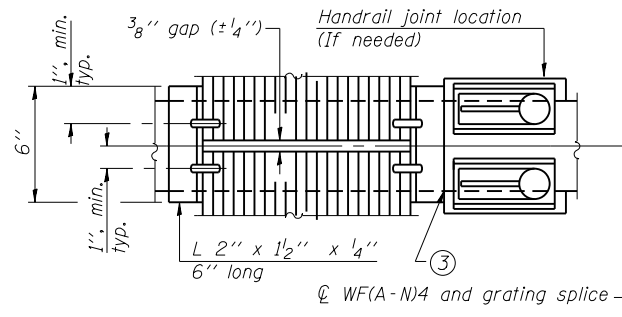
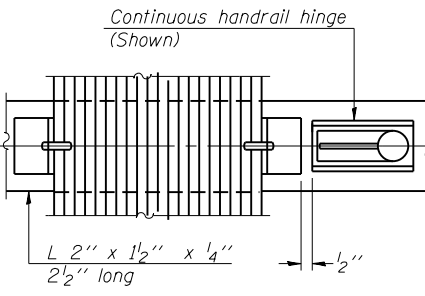
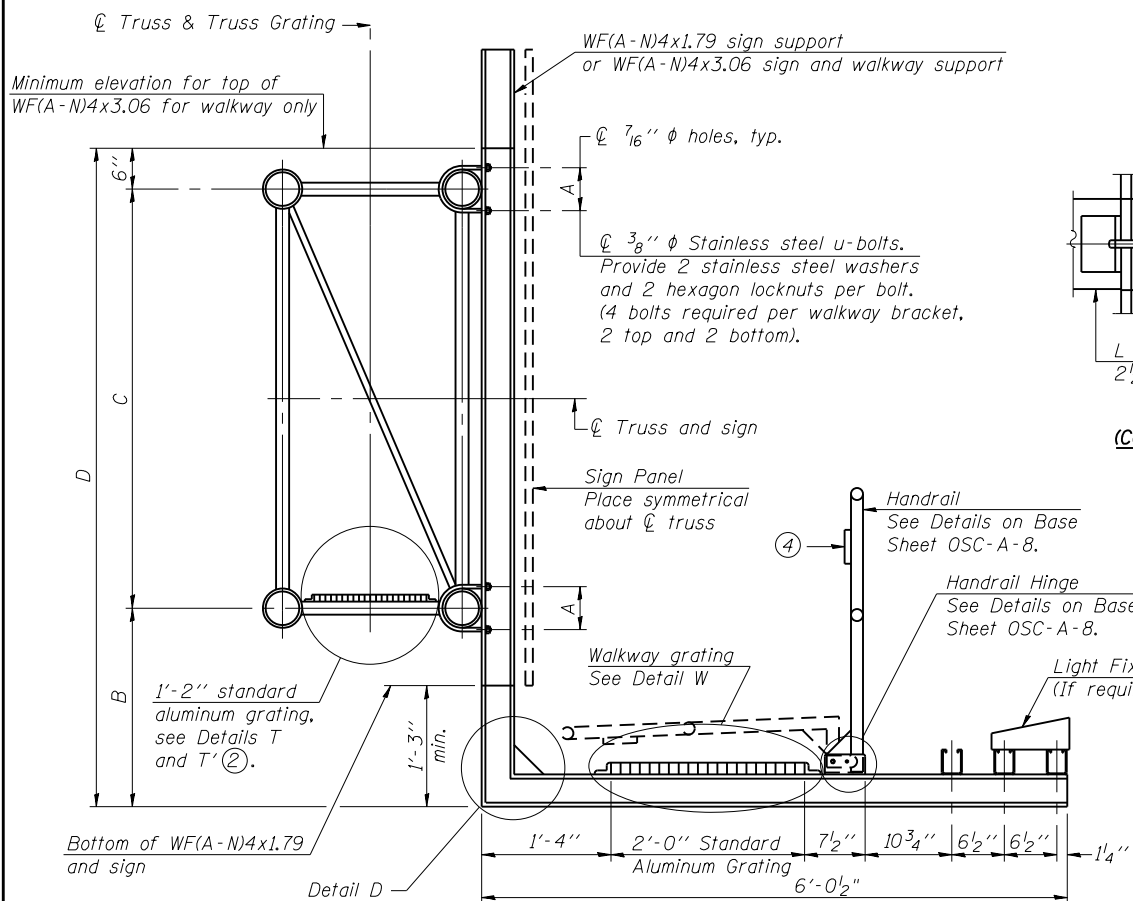
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

SHEET NO. 6 OF 8 SHEETS

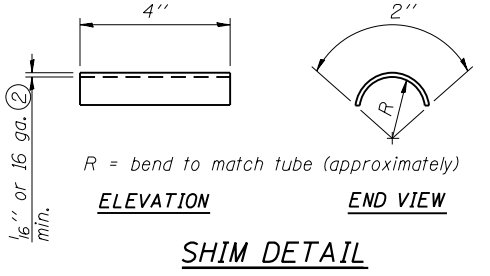
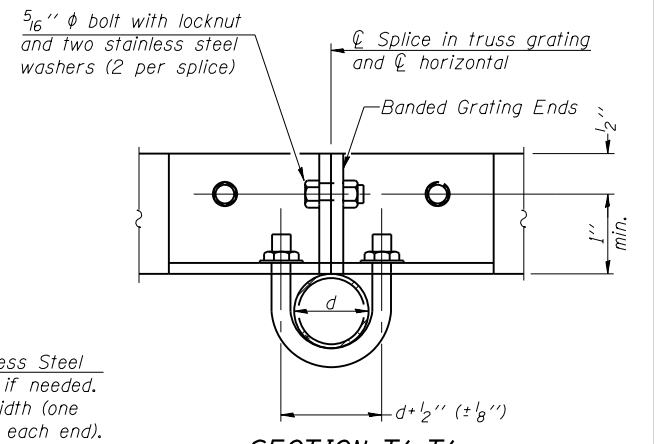
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|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 297 |
| CONTRACT NO. 60Y39 | | | | |

ILLINOIS FED. AID PROJECT

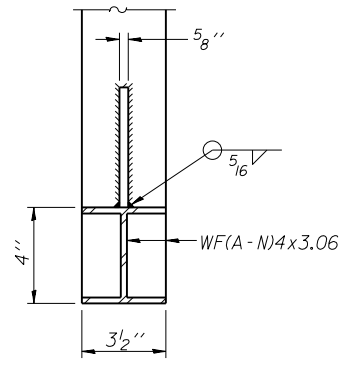
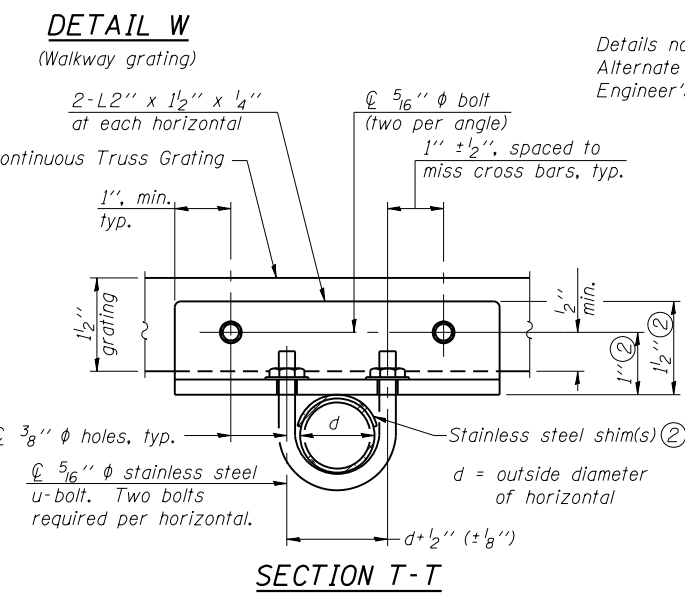
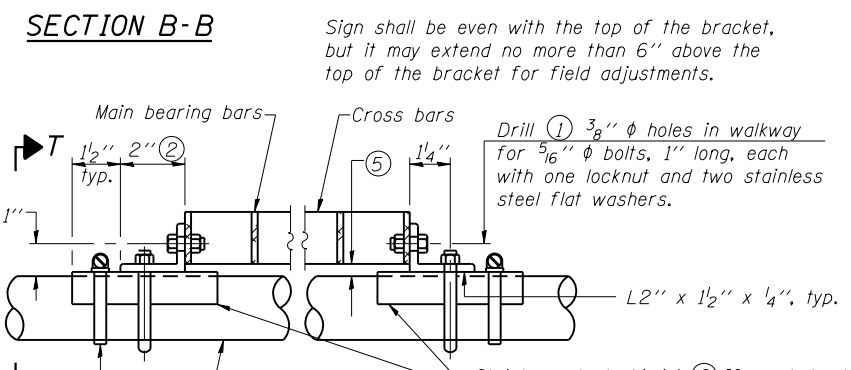


SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

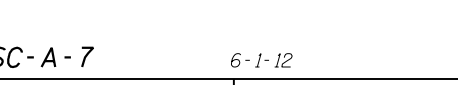
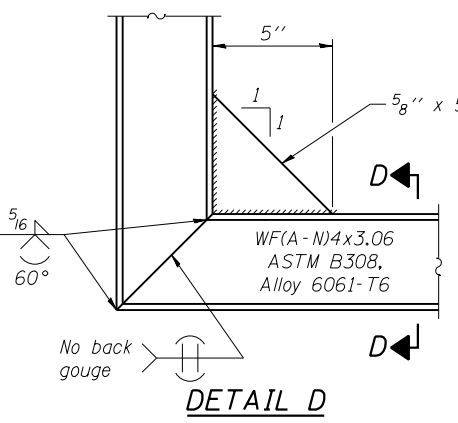
OR
 Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height, D_s, given on OSC-A-1.



Screw type stainless steel tube clamp at shim location



| Structure Number | Station | A | (6) B | C | (6) D |
|------------------|---------|--------|-------|-------|--------|
| 1C016190R79.7 | 3032+92 | 8 3/8" | 6'-3" | 7'-0" | 13'-3" |
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OSC-A-7

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikalite | DESIGNED ITC | REVISED - |
| PLOT SCALE = 3/8" = 1' / in. | CHECKED ACF | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

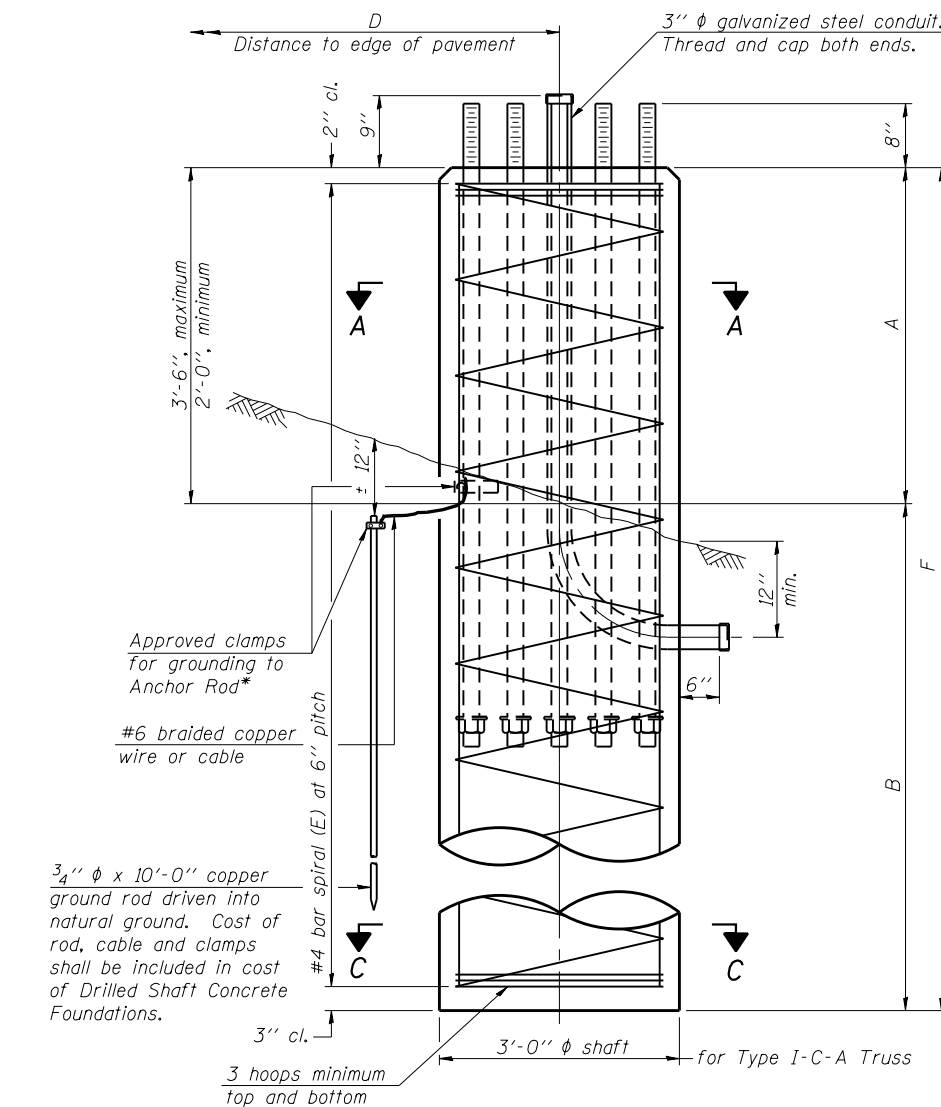
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
 ALUMINUM TRUSS & STEEL POST

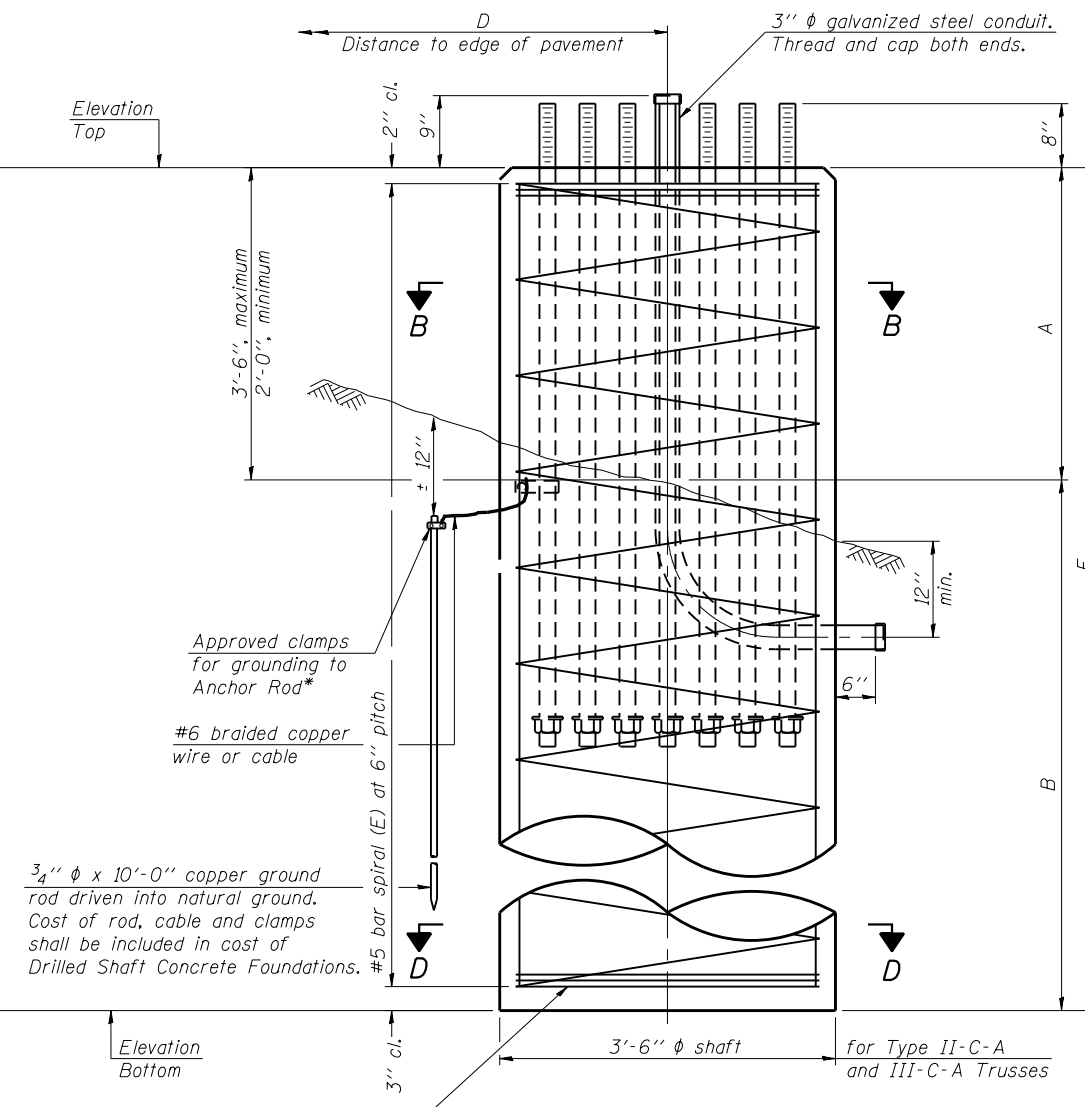
SHEET NO. 7 OF 8 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 298 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

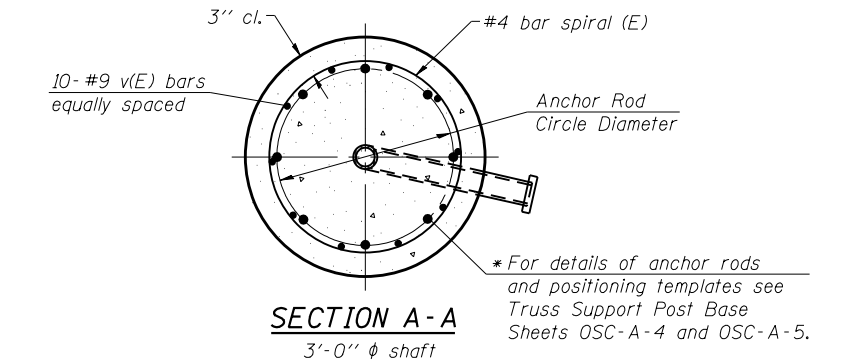
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



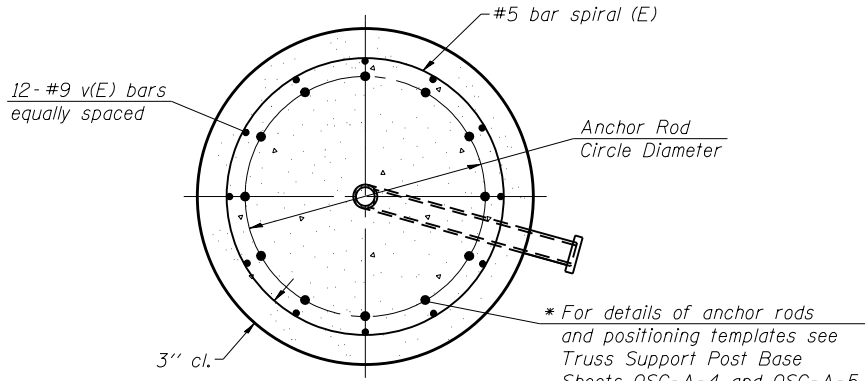
ELEVATION



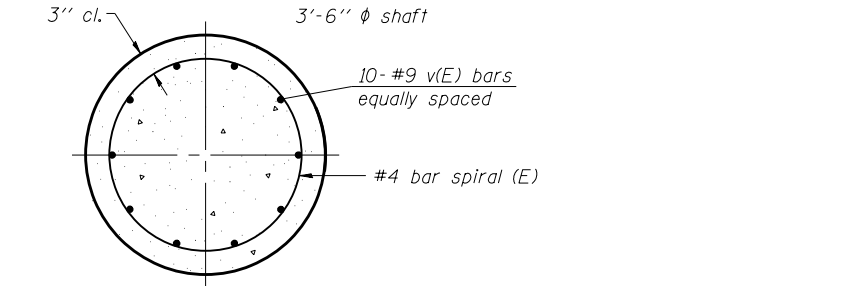
ELEVATION



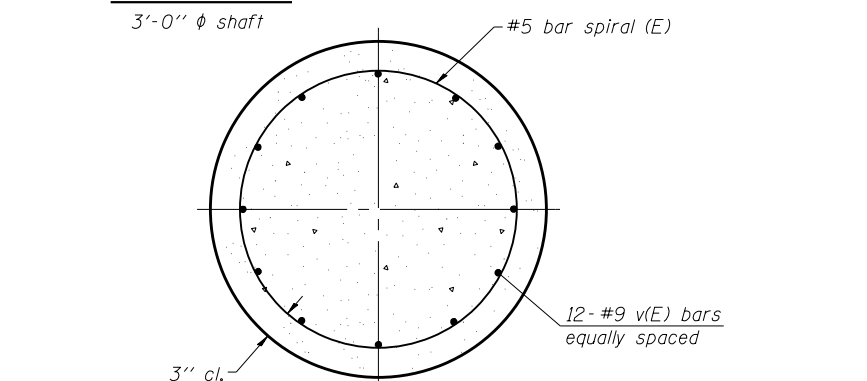
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

| Truss Type | Post Base Sheet | Maximum Cantilever Length (ft) | Maximum Total Sign Area (sq ft) | Shaft Diameter (in) | "B" Depth (ft) | Anchor Rods | | Anchor Rod Circle Diameter (in) |
|------------|-----------------|--------------------------------|---------------------------------|---------------------|----------------|-------------|---------------|---------------------------------|
| | | | | | | No. | Diameter (in) | |
| I-C-A | OSC-A-4 | 25 | 170 | 3.0 | 16.0 | 8 | 2 | 22 |
| II-C-A | OSC-A-5 | 30 | 170 | 3.5 | 17.0 | 12 | 2 | 30 |
| II-C-A | OSC-A-5 | 30 | 340 | 3.5 | 21.5 | 12 | 2 | 30 |
| III-C-A | OSC-A-5 | 35 | 170 | 3.5 | 19.0 | 12 | 2 | 30 |
| III-C-A | OSC-A-5 | 35 | 250 | 3.5 | 22.5 | 12 | 2 | 30 |
| III-C-A | OSC-A-5 | 35 | 400 | 3.5 | 26.5 | 12 | 2 | 30 |
| III-C-A | OSC-A-5 | 40 | 400 | 3.5 | 32.0 | 12 | 2 | 30 |

| Structure Number | Station | Truss Type | Shaft Diameter | Elevation Top | Elevation Bottom | Q_u | A | B | F | Class DS Concrete Cubic Yards |
|------------------|---------|------------|----------------|---------------|------------------|-------|-------|--------|--------|-------------------------------|
| IC016190R79.7 | 3032+92 | III-C-A | 3'-6" | 639.80 | 604.30 | 1.74 | 3'-6" | 32'-0" | 35'-6" | 12.7 |
| | | | | | | | | | | |
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| | | | | | | | | | | |

OSC-A-9

8-21-13



| | | |
|-----------------------------|-----------------|-----------|
| USER NAME = ksklste | DESIGNED ITC | REVISED - |
| PLOT SCALE = 1/8" = 1' - 0" | CHECKED APC | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
 ALUMINUM TRUSS & STEEL POST

SHEET NO. 8 OF 8 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 299 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") ②

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

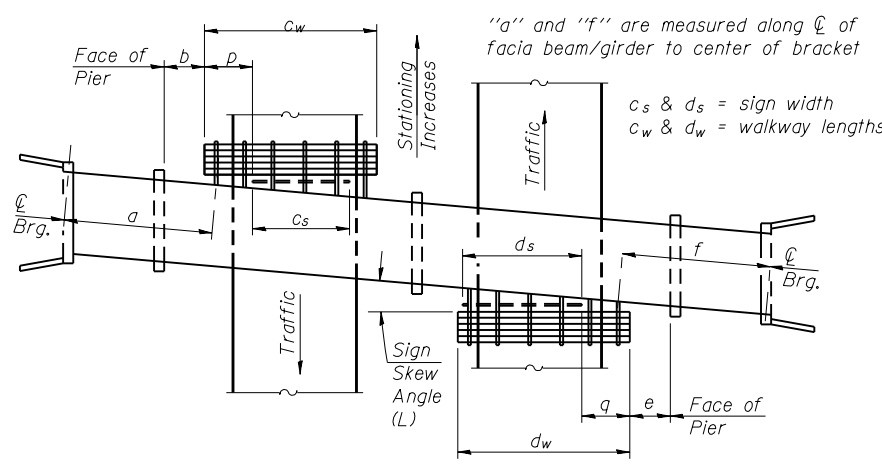
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

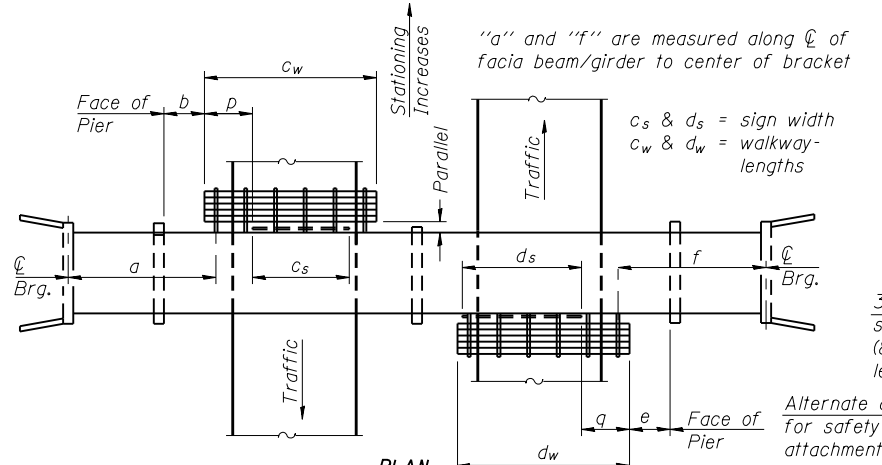
- ① Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (c_w , d_w) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

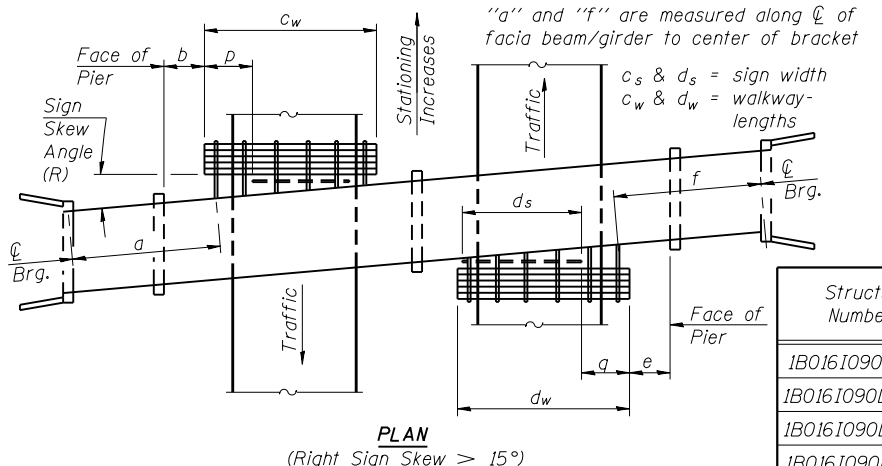
| | | |
|--|------|----|
| ③ OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED | Foot | 72 |
|--|------|----|



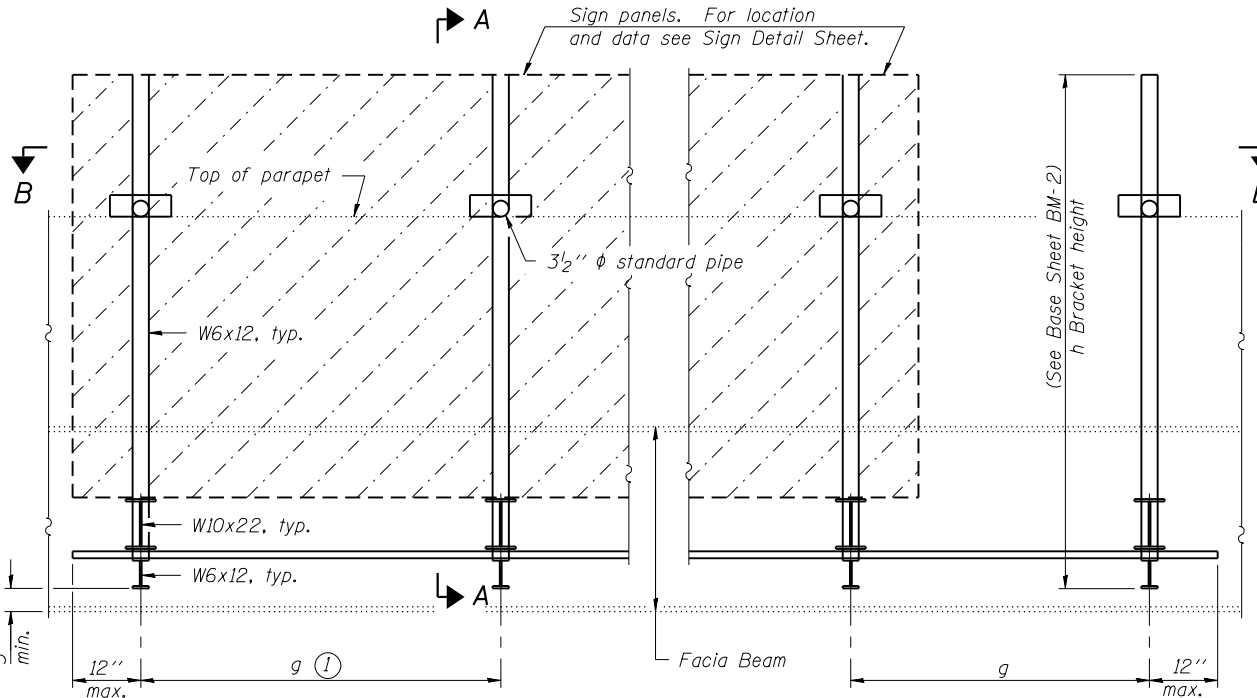
PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



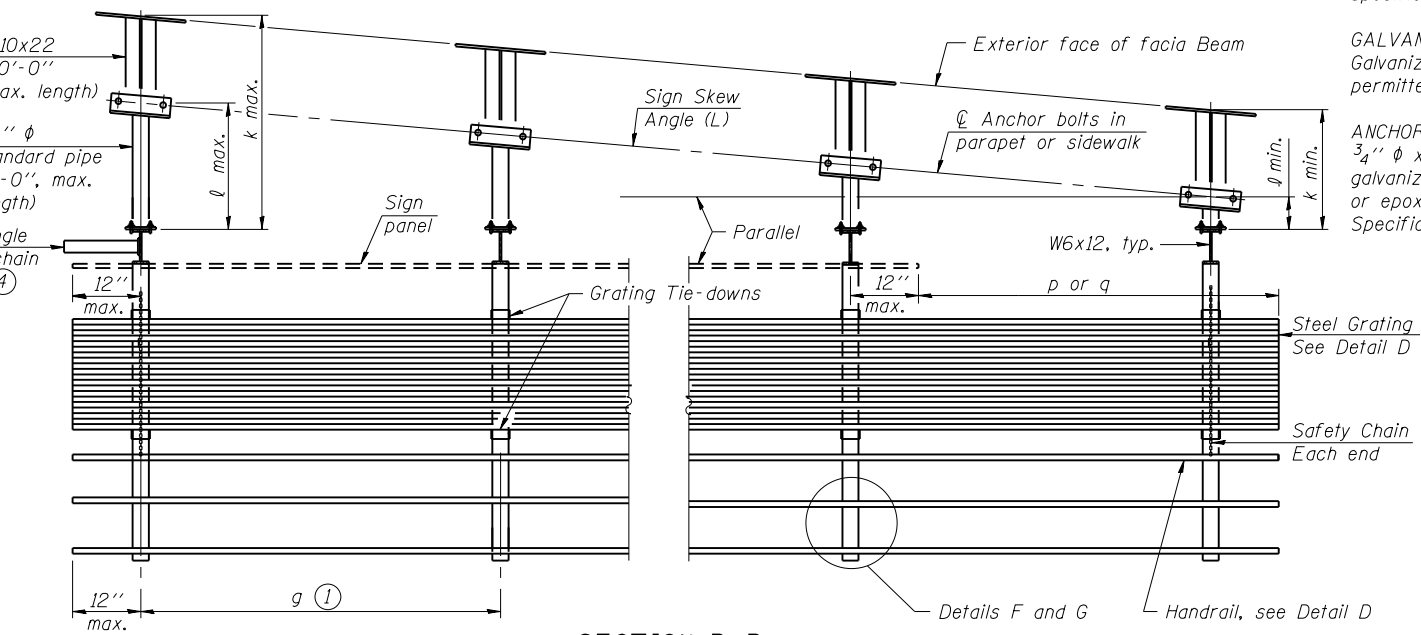
PLAN
(For Sign Skew $\leq 15^\circ$, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



PLAN
(Right Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

| Structure Number | Sign Skew Angle (L) or (R) | Bridge Station | Bridge Structure Number | Contract Route Designation | a | b | c _s | c _w | d _s | d _w | e | f | g | No. of Brackets (Total) | p | q | Total Grating/Hndrl. Lengths (c _w + d _w) |
|------------------|----------------------------|----------------|-------------------------|----------------------------|---------|---|----------------|----------------|----------------|----------------|---|---|-------|-------------------------|---|---|---|
| 1B0161090L079.7 | 3° 00' 00" | 26+09 | 016-1250 | 90 | 16'-11" | - | 23'-6" | - | - | - | - | - | 5'-9" | 5 | - | - | - |
| 1B0161090L079.2A | 3° 04' 59" | 1000+68 | 016-2280 | 90 | 24'-9" | - | 17'-0" | - | - | - | - | - | 5'-4" | 4 | - | - | - |
| 1B0161090L080.7A | 17° 56' 00" | 3094+00 | 016-1101 | 90 | 20'-11" | - | 15'-0" | - | - | - | - | - | 4'-4" | 4 | - | - | - |
| 1B0161090L081.3A | 1° 09' 00" | 3121+00 | 016-0309 | 90 | 50'-0" | - | 15'-0" | - | - | - | - | - | 4'-9" | 4 | - | - | - |

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.
When $c_w < c_s$ and/or $d_w < d_s$, use alternate brackets without walkway supports where applicable, see ③.

BM-1

6-1-12



| | | |
|------------------------------|-----------------|-----------|
| USER NAME = ikolite | DESIGNED APC | REVISED - |
| PLOT SCALE = 3/8" = 1' / in. | CHECKED JFA | REVISED - |
| PLOT DATE = 1/16/2018 | DRAWN LK | REVISED - |
| | DATE 01/19/2018 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

SHEET NO. 1 OF 3 SHEETS

| | | | | |
|---------------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-2 | COOK | 734 | 300 |
| CONTRACT NO. 60Y39 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |