

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | | | | | |
|----------|--|-------|----------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|---|
| | | | | A | B | C | D | E | F | G | H | | |
| | | | | 0003 URBAN | 0021 URBAN | 0021 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0043 URBAN | | |
| 44004250 | PAVED SHOULDER REMOVAL | SO YD | 19,237 | 19,237 | | | | | | | | | |
| 44201777 | CLASS D PATCHES, TYPE II, 11 INCH | SO YD | 15 | 15 | | | | | | | | | |
| 44201827 | CLASS D PATCHES, TYPE II, 15 INCH | SO YD | 31 | 31 | | | | | | | | | |
| 44201833 | CLASS D PATCHES, TYPE IV, 15 INCH | SO YD | 279 | | | | | | | | | 279 | |
| 44300200 | STRIP REFLECTIVE CRACK CONTROL TREATMENT | FOOT | 28,564 | 28,564 | | | | | | | | | |
| 48101600 | AGGREGATE SHOULDERS, TYPE B 8" | SO YD | 2,386 | 2,386 | | | | | | | | | |
| 48203036 | HOT-MIX ASPHALT SHOULDERS, 9 3/4" | SO YD | 148 | 148 | | | | | | | | | |
| 48203038 | HOT-MIX ASPHALT SHOULDERS, 10 1/4" | SO YD | 1,432 | 1,432 | | | | | | | | | |
| 48203042 | HOT-MIX ASPHALT SHOULDERS, 11 1/4" | SO YD | 207 | 207 | | | | | | | | | |
| 48203052 | HOT-MIX ASPHALT SHOULDERS, 13 3/4" | SO YD | 8,051 | 8,051 | | | | | | | | | |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 | | | | | | | | | | 1 |
| 50102400 | CONCRETE REMOVAL | CU YD | 110 | | | | 110 | | | | | | |
| 50104000 | BRIDGE RAIL REMOVAL | FOOT | 195 | | | | 195 | | | | | | |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 9,015 | | 20 | | 528 | 739 | 1,090 | 529 | | 6,109 | |

• SPECIALITY ITEM

A ROADWAY AND DRAINAGE
 B LIGHTING
 C ITS AND SIGNING
 D EXISTING RETAINING WALL REPAIR, BARRIER SUPPORT, MOMENT SLAB, AND NOISE WALL: SN 016-2296 & 016-2519

E RETAINING WALL PREB-1: SN 016-Z033
 F RETAINING WALL PREB-2: SN 016-Z034
 G RETAINING WALL PREB-3: SN 016-Z035
 H WATER MAIN RELOCATIONS

Rev. 7-20-16

S00-05



| | | |
|----------------------------|---------------|-----------|
| USER NAME = oross | DESIGNED APR | REVISED - |
| | DRAWN APR | REVISED - |
| PLOT SCALE = 1/8" = 1' in. | CHECKED MAM | REVISED - |
| PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 5 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------|--------|-----------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-3 | COOK | 557 | 10 |
| CONTRACT NO. 60Y38 | | | [ILLINOIS] FED. AID PROJECT | |

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | A | B | C | D | E | F | G | H |
|-----------------|---|--------------|----------------|--------|-------|-------|---------|--------|--------|--------|-------------|
| | | | | 0003 | 0021 | 0021 | 0044 | 0044 | 0044 | 0044 | 0043 |
| | | | | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN |
| 50300225 | CONCRETE STRUCTURES | CU YD | 2,412 | | 16 | | 1,041 | 231 | 349 | 151 | 624 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 142 | | | | 142 | | | | |
| 50300300 | PROTECTIVE COAT | SQ YD | 2,547 | | | | 656 | 590 | 918 | 383 | |
| 50500405 | STRUCTURAL STEEL | POUND | 3181 | | | | | | | | 3181 |
| 50500505 | STUD SHEAR CONNECTORS | EACH | 2,484 | | | | | 631 | 1,390 | 405 | 58 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 535,088 | 92,828 | 8,520 | | 245,600 | 34,580 | 50,070 | 22,110 | 81,380 |
| 51500100 | NAME PLATES | EACH | 6 | | | | 6 | | | | |
| 51603000 | DRILLED SHAFT IN SOIL | CU YD | 152 | | 20 | | 132 | | | | |
| 52200020 | TEMPORARY SOIL RETENTION SYSTEM | SQ FT | 20,041 | | | | | | | | 20,041 |
| 52200100 | FURNISHING SOLDIER PILES (HP SECTION) | FOOT | 9,272 | | | | | 2,618 | 4,943 | 1,711 | |
| 52200105 | FURNISHING SOLDIER PILES (W SECTION) | FOOT | 48 | | | | | | 48 | | |
| 52200150 | DRIVING SOLDIER PILES | FOOT | 9,272 | | | | | 2,618 | 4,943 | 1,711 | |
| 52200200 | DRILLING AND SETTING SOLDIER PILES (IN SOIL) | CU FT | 339 | | | | | | 339 | | |
| 52200250 | UNTREATED TIMBER LAGGING | SQ FT | 13,710 | | | | | 4,251 | 6,733 | 2,726 | |
| 54213669 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" | EACH | 1 | 1 | | | | | | | |

Rev 7-20-16

* SPECIALITY ITEM

- A ROADWAY AND DRAINAGE
- B LIGHTING
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- E RETAINING WALL PREB-1: SN 016-Z033
- F RETAINING WALL PREB-2: SN 016-Z034
- G RETAINING WALL PREB-3: SN 016-Z035
- H WATER MAIN RELOCATIONS

| | | | |
|-------------|----------------------------|---------------|-----------|
| HNTB | USER NAME = aroass | DESIGNED APR | REVISED - |
| | | DRAWN APR | REVISED - |
| | PLOT SCALE = 1/8" = 1' in. | CHECKED MAM | REVISED - |
| | PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 6 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------------|-------------|---------------------------|--------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 11 |
| CONTRACT NO. 60Y38 | | | ILLINOIS FED. AID PROJECT | |

SOQ-06

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | A | B | C | D | E | F | G | H |
|----------|---|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 0003 | 0021 | 0021 | 0044 | 0044 | 0044 | 0044 | 0043 |
| | | | | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN |
| 550A0450 | STORM SEWERS, CLASS A, TYPE 2 36" | FOOT | 89 | 89 | | | | | | | |
| 550A5510 | STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 48" | FOOT | 725 | 725 | | | | | | | |
| 55100400 | STORM SEWER REMOVAL 10" | FOOT | 306 | 306 | | | | | | | |
| 55100500 | STORM SEWER REMOVAL 12" | FOOT | 669 | 669 | | | | | | | |
| 55100700 | STORM SEWER REMOVAL 15" | FOOT | 100 | 100 | | | | | | | |
| 55100900 | STORM SEWER REMOVAL 18" | FOOT | 633 | 633 | | | | | | | |
| 55101200 | STORM SEWER REMOVAL 24" | FOOT | 268 | 268 | | | | | | | |
| 55101600 | STORM SEWER REMOVAL 36" | FOOT | 158 | 158 | | | | | | | |
| 55201300 | STORM SEWERS JACKED IN PLACE, 36" | FOOT | 47 | 47 | | | | | | | |
| 56103300 | DUCTILE IRON WATER MAIN 12" | FOOT | 103 | | | | | | | | 103 |
| 56103100 | DUCTILE IRON WATER MAIN 8" | FOOT | 12 | | | | | | | | 12 |
| 56105200 | WATER VALVES 12" | EACH | 2 | | | | | | | | 2 |
| 56105000 | WATER VALVES 8" | EACH | 1 | | | | | | | | 1 |
| 59000200 | EPOXY CRACK INJECTION | FOOT | 190 | | | | 190 | | | | |
| 59100100 | GEOCOMPOSITE WALL DRAIN | SQ YD | 1,044 | | | | | 346 | 437 | 261 | |
| 60100060 | CONCRETE HEADWALLS FOR PIPE DRAINS | EACH | 3 | 3 | | | | | | | |

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• SPECIALITY ITEM

A ROADWAY AND DRAINAGE
 B LIGHTING
 C ITS AND SIGNING
 D EXISTING RETAINING WALL REPAIR, BARRIER SUPPORT, MOMENT SLAB, AND NOISE WALL: SN 016-2296 & 016-2519

E RETAINING WALL PREB-1: SN 016-2033
 F RETAINING WALL PREB-2: SN 016-2034
 G RETAINING WALL PREB-3: SN 016-2035
 H WATER MAIN RELOCATIONS

Rev. 7-20-16



| | | |
|----------------------------|---------------|-----------|
| USER NAME = orness | DESIGNED APR | REVISED - |
| | DRAWN APR | REVISED - |
| PLOT SCALE = 1/8" = 1' in. | CHECKED MAM | REVISED - |
| PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 8 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------------|-------------|---------------------------|--------------|
| F.A.I. R.I.E. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 13 |
| CONTRACT NO. 60Y38 | | | ILLINOIS FED. AID PROJECT | |

S00-08

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | | | | | |
|----------|---|------|----------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|---|
| | | | | A | B | C | D | E | F | G | H | | |
| | | | | 0003 URBAN | 0021 URBAN | 0021 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0043 URBAN | | |
| 60236600 | INLETS, TYPE A, TYPE 9 FRAME AND GRATE | EACH | 5 | 5 | | | | | | | | | |
| 60236700 | INLETS, TYPE A, TYPE 10 FRAME AND GRATE | EACH | 7 | 7 | | | | | | | | | |
| 60237420 | INLETS, TYPE A, TYPE 20 FRAME AND GRATE | EACH | 18 | 18 | | | | | | | | | |
| 60237460 | INLETS, TYPE A, TYPE 23 FRAME AND GRATE | EACH | 1 | 1 | | | | | | | | | |
| 60248900 | VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 2 | | | | | | | | | | 2 |
| 60249010 | VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 3 | | | | | | | | | | 3 |
| 60255500 | MANHOLES TO BE ADJUSTED | EACH | 1 | 1 | | | | | | | | | |
| 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 158 | 158 | | | | | | | | | |
| 60500040 | REMOVING MANHOLES | EACH | 4 | 4 | | | | | | | | | |
| 60500050 | REMOVING CATCH BASINS | EACH | 7 | 7 | | | | | | | | | |
| 60500060 | REMOVING INLETS | EACH | 25 | 25 | | | | | | | | | |
| 60500080 | REMOVING CATCH BASINS TO MAINTAIN FLOW | EACH | 1 | 1 | | | | | | | | | |
| 60500090 | REMOVING INLETS TO MAINTAIN FLOW | EACH | 13 | 13 | | | | | | | | | |
| 60600605 | CONCRETE CURB, TYPE B | FOOT | 33 | 33 | | | | | | | | | |

• SPECIALITY ITEM

A ROADWAY AND DRAINAGE
 B LIGHTING
 C ITS AND SIGNING
 D EXISTING RETAINING WALL REPAIR, MOMENT SLAB, AND NOISE WALL: SN 016-2296

E RETAINING WALL PREB-1: SN 016-Z033
 F RETAINING WALL PREB-2: SN 016-Z034
 G RETAINING WALL PREB-3: SN 016-Z035
 H WATER MAIN RELOCATIONS

Rev. 7-20-16



| | | |
|----------------------------|---------------|-----------|
| USER NAME : oroads | DESIGNED APR | REVISED - |
| | DRAWN APR | REVISED - |
| PLOT SCALE = 1/8" = 1' in. | CHECKED MAM | REVISED - |
| PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 10 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------------|-------------|---------------------------|--------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 15 |
| CONTRACT NO. 60Y38 | | | ILLINOIS FED. AID PROJECT | |

S00-10

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | | | | | |
|---------------------|--|------------------|------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|----|
| | | | | A | B | C | D | E | F | G | H | | |
| | | | | 0003 URBAN | 0021 URBAN | 0021 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0044 URBAN | 0043 URBAN | | |
| Z0007120 | WELDED WIRE FABRIC 6X6 | SQ YD | 89 | 89 | | | | | | | | | |
| Z0007510 | ENGINEERED BARRIER | SQ YD | 1,000 | 1,000 | | | | | | | | | |
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT | 5 | | | | 5 | | | | | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | | | | | | | | | |
| Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED | EACH | 21 | 21 | | | | | | | | | |
| Z0019600 | DUST CONTROL WATERING | UNIT | 50 | 50 | | | | | | | | | |
| Z0022800 | FENCE REMOVAL | FOOT | 1,281 | 638 | | | 505 | | | | | | 78 |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 1,260 | 1,260 | | | | | | | | | |
| Z0033020 | LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 80 | | 80 | | | | | | | | |
| Z0033028 | MAINTENANCE OF LIGHTING SYSTEM | CAL MD | 24 | | 24 | | | | | | | | |
| Z0033052 | COMMUNICATIONS VAULT | EACH | 15 | | | 15 | | | | | | | |
| Z0034105 | MATERIAL TRANSFER DEVICE | TON | 11,514 | 11,514 | | | | | | | | | |
| Z0046304 | PIPE UNDERDRAINS FOR STRUCTURES 4" | FOOT | 2,788 | | | | 947 | 1,194 | 647 | | | | |
| Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | L SUM | 1 | 1 | | | | | | | | | |

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2

3

4

5

14

• SPECIALITY ITEM

□ NON-PART.

A ROADWAY AND DRAINAGE
 B LIGHTING
 C ITS AND SIGNING
 D EXISTING RETAINING WALL REPAIR, BARRIER SUPPORT, MOMENT SLAB, AND NOISE WALL: SN 016-2296 & 016-2519

E RETAINING WALL PREB-1: SN 016-Z033
 F RETAINING WALL PREB-2: SN 016-Z034
 G RETAINING WALL PREB-3: SN 016-Z035
 H WATER MAIN RELOCATIONS

Rev. 7-20-16



| | | |
|-------------------------------|---------------|-----------|
| USER NAME = nrcoss | DESIGNED APR | REVISED - |
| | DRAWN APR | REVISED - |
| PLOT SCALE = 1/80" = 1" / in. | CHECKED MAM | REVISED - |
| PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

| | | | | |
|--------------------|---------------------------|-------------|---------------------------|--------------|
| F.A.I. RTE. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 25 |
| CONTRACT NO. 60Y38 | | | ILLINOIS FED. AID PROJECT | |

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | A | B | C | D | E | F | G | H |
|----------|---|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 0003 | 0021 | 0021 | 0044 | 0044 | 0044 | 0044 | 0043 |
| | | | | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN |
| X8710036 | FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE | FOOT | 2,530 | | | 2,530 | | | | | |
| X8710054 | FIBER OPTIC TERMINATION PANEL, 12F OR 24F | EACH | 6 | | | 6 | | | | | |
| X8730312 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED | FOOT | 2,273 | | | 2,273 | | | | | |
| X8772115 | TEMPORARY MAST ARM, ALUMINUM, 15FT | EACH | 30 | | 30 | | | | | | |
| X8780105 | CONCRETE FOUNDATIONS (SPECIAL) | EACH | 3 | | | 3 | | | | | |
| X8807670 | SIGNAL HEAD, LED, RETROFIT | EACH | 4 | | | 4 | | | | | |
| X8850102 | INDUCTION LOOP | FOOT | 682 | | | | | | | | |
| X8950300 | REMOVE EXISTING SIGNAL HEAD AND POST | EACH | 4 | | | | | | | | |
| X8950510 | REMOVE FIBER OPTIC CABLE FROM CONDUIT | FOOT | 630 | | | | | | | | |
| X8950700 | REMOVE TEMPORARY INTERCONNECT | L SUM | 1 | | | 1 | | | | | |
| X1200078 | DUCTILE IRON WATER MAIN 12", RESTRAINED JOINT PIPE | FOOT | 327 | | | | | | | | 327 |
| X1200079 | DUCTILE IRON WATER MAIN 36", RESTRAINED JOINT PIPE | FOOT | 403 | | | | | | | | 403 |
| X1200084 | DUCTILE IRON WATER MAIN 48", RESTRAINED JOINT PIPE | FOOT | 49 | | | | | | | | 49 |
| X1200077 | DUCTILE IRON WATER MAIN 48" | FOOT | 10 | | | | | | | | 10 |
| X1400180 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 19 6 PAIR | FOOT | 4,686 | | | 4,686 | | | | | |

SPECIALITY ITEM

A ROADWAY AND DRAINAGE
 B LIGHTING
 C ITS AND SIGNING
 D EXISTING RETAINING WALL REPAIR, MOMENT SLAB, AND NOISE WALL: SN 016-2296

E RETAINING WALL PREB-1: SN 016-2033
 F RETAINING WALL PREB-2: SN 016-2034
 G RETAINING WALL PREB-3: SN 016-2035
 H WATER MAIN RELOCATIONS

Rev. 7-20-14

S00-29



| | | |
|----------------------------|---------------|-----------|
| USER NAME = dross | DESIGNED APR | REVISED - |
| | DRAWN APR | REVISED - |
| PLOT SCALE = 1/8" = 1' in. | CHECKED MAM | REVISED - |
| PLT DATE = 5/9/2016 | DATE 5/6/2016 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 29 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|--------------------------|-------------|---------------------------|--------------|
| F.A.I. RTE. 90 | SECTION (S17 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 34 |
| CONTRACT NO. 60Y38 | | | ILLINOIS FED. AID PROJECT | |

80% FED
20% STATE

CONSTRUCTION CODE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | A | B | C | D | E | F | G | H |
|----------|--|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 0003 | 0021 | 0021 | 0044 | 0044 | 0044 | 0044 | 0043 |
| | | | | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN | URBAN |
| X2600019 | LED FLASHING BEACON AND FLASHER CONTROLLER | EACH | 2 | | | 2 | | | | | |
| X1400181 | LUMINAIRE, UNDERPASS, LED, TYPE B | EACH | 29 | | 29 | | | | | | |
| X1200080 | STORM SEWERS JACKED IN PLACE, 48" (SPECIAL) | FOOT | 96 | 96 | | | | | | | |
| X0327984 | STEEL CASING PIPE BORED AND JACKED, 54" | FOOT | 242 | | | | | | | | 242 |
| X1200081 | WATER VALVES 48" | EACH | 2 | | | | | | | | 2 |
| X0900030 | WEEP HOLES CLEANED AND EXTENDED | L SUM | 1 | | | | 1 | | | | |
| X1200085 | HYDROSTATIC TESTING AND DISINFECTING WATER MAINS | FOOT | 801 | | | | | | | | 801 |

* SPECIALITY ITEM

- A ROADWAY AND DRAINAGE
- B LIGHTING
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- G RETAINING WALL PREB-3: SN 016-Z035
- H WATER MAIN RELOCATIONS

Rev. 7-20-16



| | | |
|------------------------|---------------|-----------|
| USER NAME = aross | DESIGNED APR | REVISIONS |
| | DRAWN APR | REVISIONS |
| PLOT SCALE = 1/8" = 1' | CHECKED MAM | REVISIONS |
| PLOT DATE = 6/9/2016 | DATE 5/6/2016 | REVISIONS |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-90 FROM CUMBERLAND AVE TO HARLEM AVE
SUMMARY OF QUANTITIES

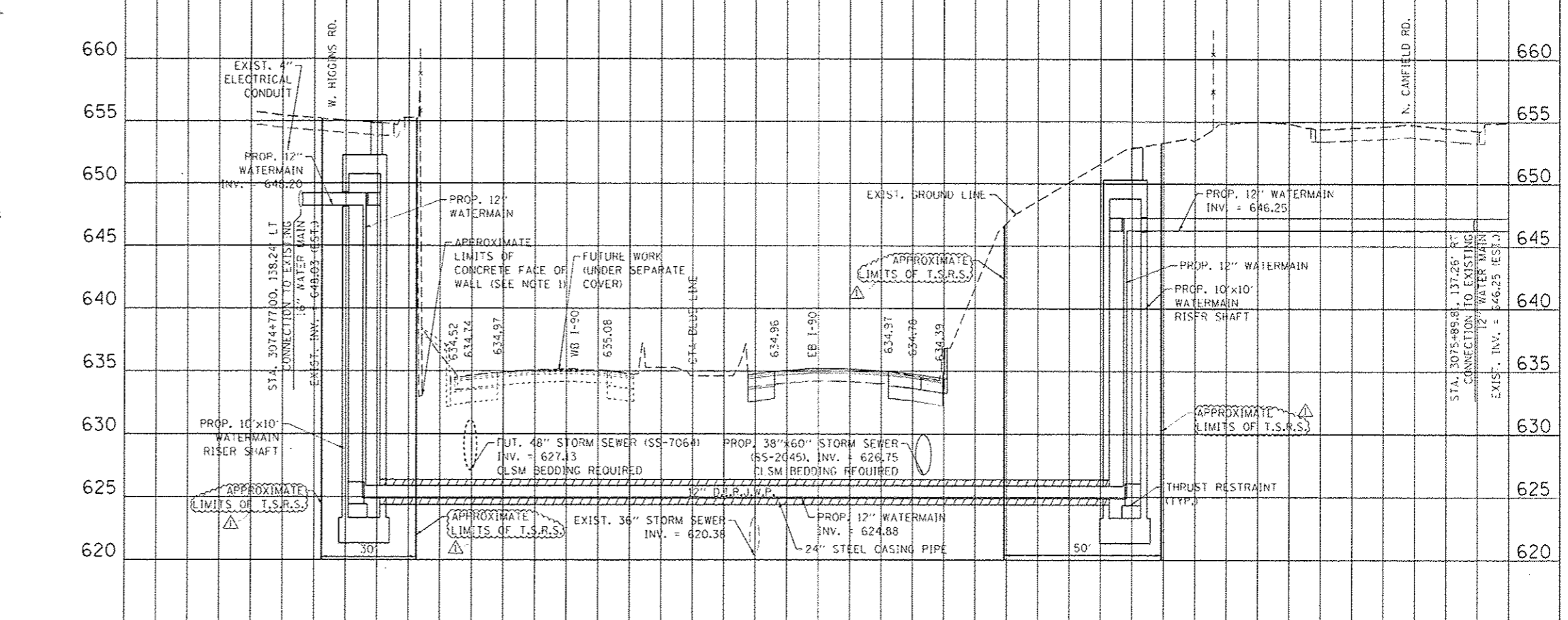
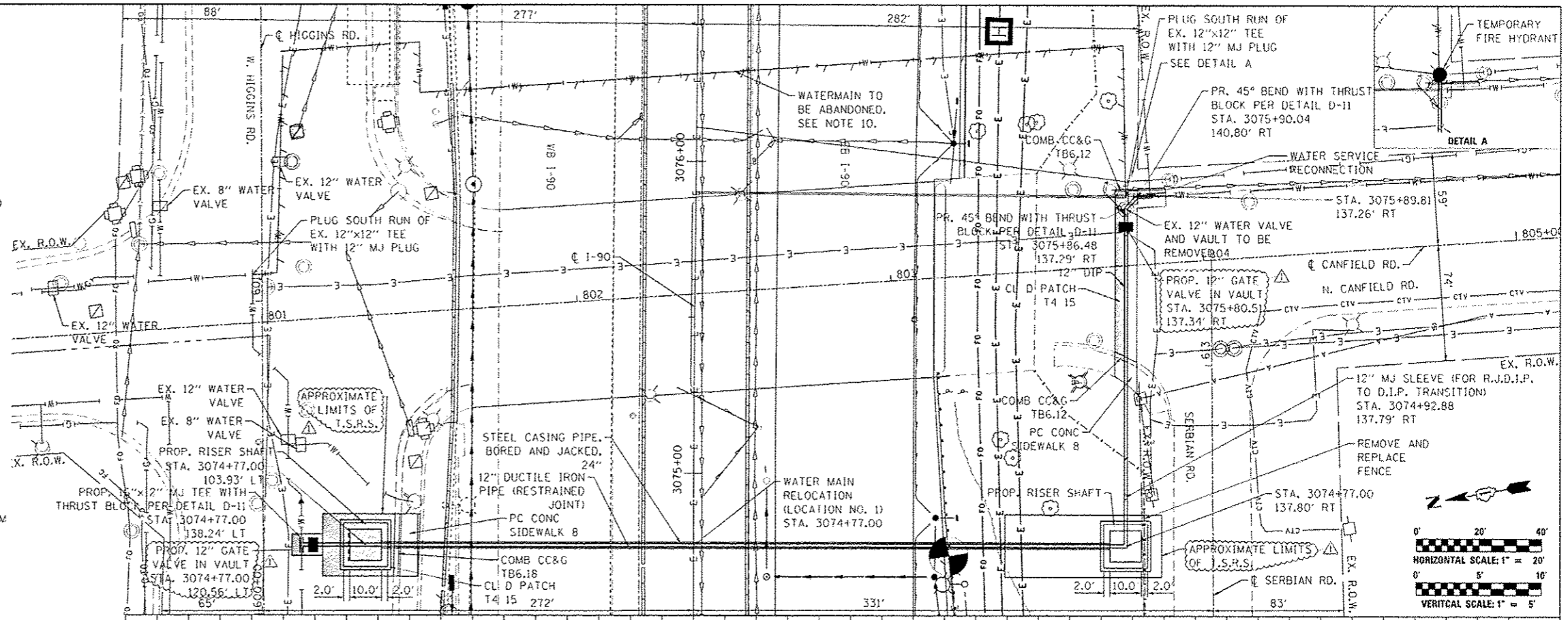
SCALE: NTS SHEET NO. 30 OF 30 SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | (1517 & 1415) R-3 | COOK | 557 | 35 |
| CONTRACT NO. 60Y38 | | | S00-30 | |

CONSTRUCTION SEQUENCING NOTES:

NOTE: ALL OF THE FOLLOWING WATER MAIN CONSTRUCTION MUST BE COORDINATED AND SEQUENCED WITH THE BRACED EXCAVATION SUPPORT SYSTEM FOR THE JACKING AND RECEIVING PITS AND ANY OTHER EXCAVATIONS REQUIRING BRACING, DEMOLITION OF THE EXISTING RISER SHAFT, AND CONSTRUCTION OF THE NEW RISER SHAFT. REFERENCE RISER SHAFT PLANS FOR MORE DETAILED CONSTRUCTION SEQUENCING OF THESE ITEMS.

1. INSTALL JACKING AND RECEIVING PITS. THE CONTRACTOR SHALL LOCATE THE PILES OF THE EXISTING SOLDIER PILE WALL ON THE NORTH SIDE OF I-90 BY ACCESSING FROM THE RECEIVING PIT / EARTH RETAINING SYSTEM OR OTHER MEANS IN ORDER TO CENTER THE PROPOSED WATER MAIN BETWEEN SUCH SOLDIER PILES.
2. INSTALL 24" CASING PIPE AND 12" CARRIER PIPE BETWEEN THE PROPOSED RISER SHAFT LOCATIONS.
3. CONSTRUCT RISER SHAFTS. AFTER CONSTRUCTION OF THE NEW RISER SHAFTS, SET PIPE, FITTINGS, AND APPURTENANCES AS SHOWN IN THE RISER SHAFT DETAILS.
4. SET PIPE, FITTINGS, VALVE, VALVE BASIN, AND APPURTENANCES AS SHOWN FROM THE NORTH RISER SHAFT TO THE POINT OF CONNECTION TO THE EXISTING 16" WATER MAIN IN HIGGINS. COORDINATE THE LOCATION OF THE TEE WITH THE LOCATION OF THE THRUST RESTRAINT BLOCK.
5. SET PIPE, FITTINGS, VALVE, VALVE BASIN, AND APPURTENANCES AS SHOWN FROM THE SOUTH RISER SHAFT TO THE TEMPORARY FIRE HYDRANT AS SHOWN. COORDINATE THE LOCATION OF BENDS WITH THE LOCATION OF THE THRUST RESTRAINER PILES.
6. CONNECT NEW WATER MAIN TO EXISTING 16" PIPE. COMPLETE WATER MAIN CONNECTION TO EXISTING MAINS USING SHORT TERM LANE CLOSURES ON WEEKENDS USING APPLICABLE IDOT STANDARDS AS DIRECTED BY THE ENGINEER.
7. DISINFECT, FLUSH, AND PRESSURE TEST PER GENERAL NOTES.
8. REMOVE TEMPORARY FIRE HYDRANT AND CONNECT NEW WATER MAIN TO EXISTING 12" PIPE WITH SLEEVE COUPLING. INSTALL THRUST RESTRAINT BLOCKS BEHIND 45° BENDS PER CDWM DETAIL D-11.
9. CONTACT CDWM FOR SHUTDOWN OF EXISTING WATER MAIN. (312-744-5070)
10. CUT, CAP, AND ABANDON EXISTING 12" WATER MAIN TO THE NORTH IN HIGGINS ROAD AND TO THE SOUTH IN CANFIELD ROAD. EXACT LOCATIONS AND DEPTH OF EXISTING WATER MAINS TO BE VERIFIED IN FIELD BY CONTRACTOR.
11. BEFORE THE WATER MAIN CAN BE FILLED AND FLUSHED, THE BRACED EXCAVATION AREA MUST BE BACKFILLED AND THRUST RESTRAINT SYSTEMS IN PLACE.
12. CONTACT CDWM TO OPERATE VALVES FOR FILLING AND FLUSHING WATER MAIN.
13. RESTORE ALL WATER MAIN TRENCHES AS SHOWN.



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| USER NAME = mkrby | DESIGNED MJK | REVISED 7/14/2016 MJK |
| PLOT SCALE = 1/8" = 1'-0" | DRAWN MJK | REVISION - |
| PLOT DATE = 7/15/2016 | CHECKED MAM | REVISION - |
| | DATE 5/6/2016 | REVISION - |

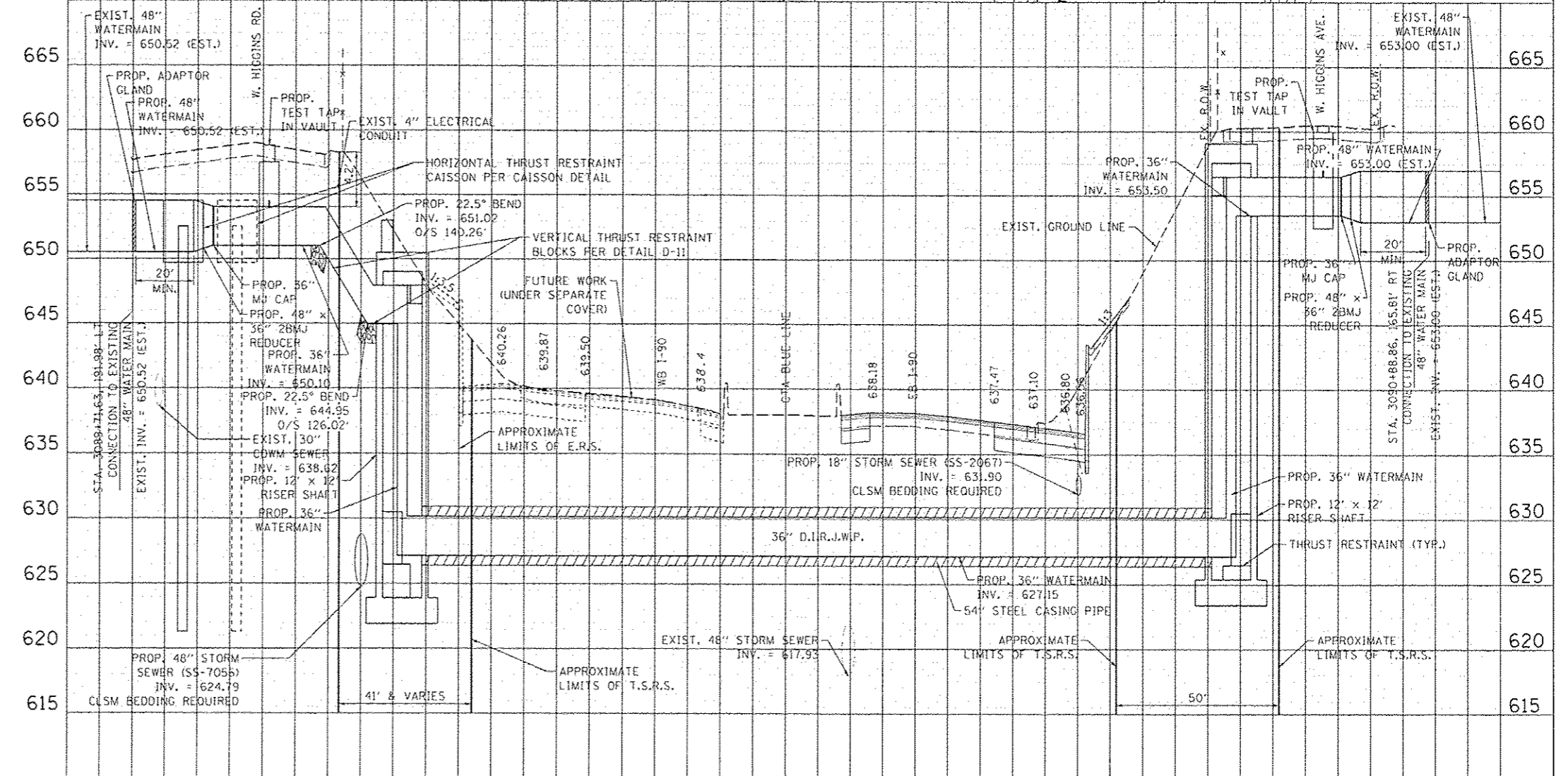
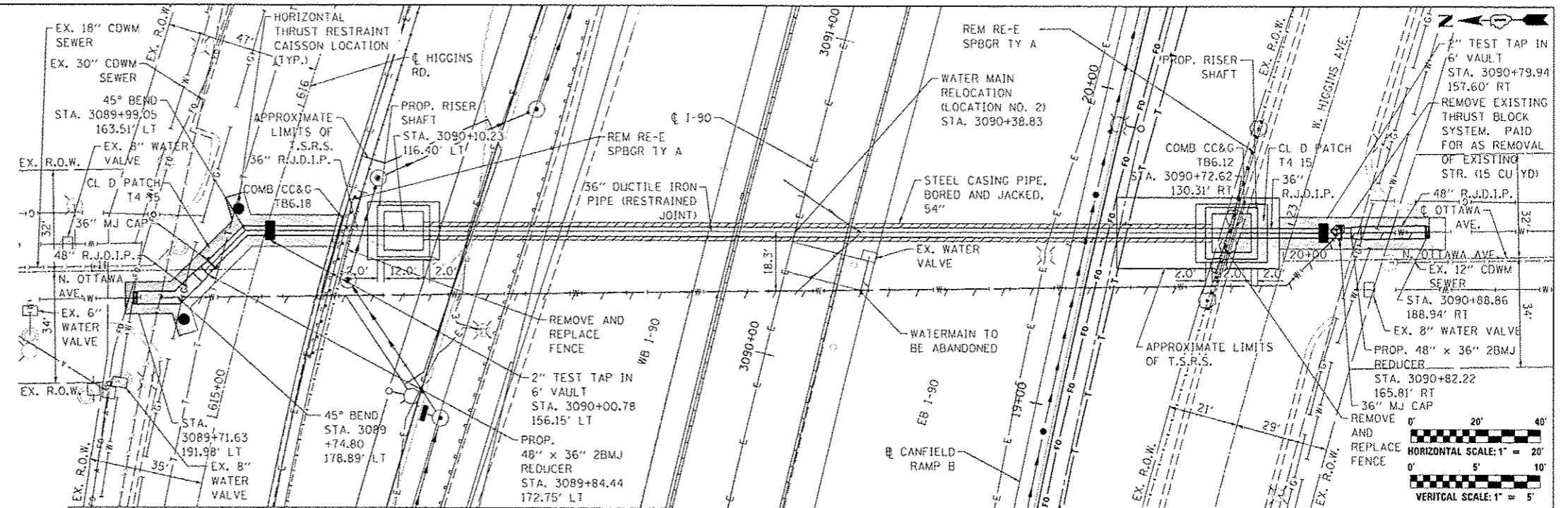
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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| WATER MAIN RELOCATION LOCATION NO. 1 | | F.A.J. RTE. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS 557 | SHEET NO. 181 |
| SCALE: 1:20 | SHEET NO. 1 OF 16 SHEETS | STA. | TO STA. | | CONTRACT NO. 60Y38 | |
| ILLINOIS FED. AID PROJECT | | | | | | |

CONSTRUCTION SEQUENCING NOTES:

NOTE: ALL OF THE FOLLOWING WATER MAIN CONSTRUCTION MUST BE COORDINATED AND SEQUENCED WITH THE BRACED EXCAVATION SUPPORT SYSTEM FOR THE JACKING AND RECEIVING PITS AND ANY OTHER EXCAVATIONS REQUIRING BRACING, DEMOLITION OF THE EXISTING RISER SHAFT, AND CONSTRUCTION OF THE NEW RISER SHAFT. REFERENCE RISER SHAFT PLANS FOR MORE DETAILED CONSTRUCTION SEQUENCING OF THESE ITEMS.

1. INSTALL JACKING AND RECEIVING PITS. INSTALL APPROXIMATELY 240 FEET OF 54-INCH STEEL WATER MAIN CASING PIPE.
2. INSTALL NEW WATER MAIN WITH:
 APPROXIMATELY 390' OF 36-INCH DIRJWP
 4 - 36" x 1/4" 2B MJ VERTICAL OFFSETS
 2 - 36" x 1/8" 2B MJ VERTICAL OFFSETS
 1 - 36" x 1/8" 2B MJ HORIZONTAL BEND
 2 - 2-INCH TEST TAPS AND ASSOCIATED 6-FOOT BASIN (TAPS MUST BE LOCATED AT THE HIGHEST ELEVATION ALONG THE NEWLY INSTALLED WATER MAIN AT EACH END)
 TEMPORARILY CAP AND BRACE THE ENDS OF THE NEW WATER MAIN WITH 2-36" MJ PLUGS.
3. INSTALL ALL CONCRETE VERTICAL THRUST RESTRAINTS AT EACH END AND ONE (1) CAISSON THRUST RESTRAINT AT NORTH END.
4. INSTALL PERMANENT FIRE HYDRANT ON THE WESTERN FRONTCAGE OF N OTTAWA AVENUE APPROXIMATELY 42' SSL OF W ROSEDALE AVENUE FOR FLUSHING WITH:
 APPROXIMATELY 12' OF 8-INCH DUCTILE IRON PIPE
 APPROXIMATELY 10' OF 48-INCH DUCTILE IRON PIPE
 1 - STANDARD CHICAGO HYDRANT 4 1/2"
 1 - 8" x 48" MJ 2B TEE
 1 - 8" x 48" MJ B&PE OFFSET
 2 - 48" PCCP TO DI ADAPTORS
 1 - 8" CONTROL VALVE
 1 - 6' DIAMETER VALVE BASIN
5. DISINFECT, FLUSH, AND PRESSURE TEST PER THE GENERAL NOTES.
6. ONCE THE NEW WATER MAIN IS APPROVED BY CDWM, REMOVE THE NEW 36-INCH TEMPORARY PLUGS AT BOTH THE NORTH AND SOUTH END FROM STEP 2 AND MAKE THE FINAL CONNECTIONS TO EXISTING 48-INCH CONCRETE WATER MAIN AT EACH END WITH:
 APPROXIMATELY 30' OF 48-INCH DIRJWP
 2 - 48" x 36" MJ REDUCERS
 1 - 48" x 1/8" 2B MJ HORIZONTAL BEND (MUST INSTALL PROPOSED CAISSON AT NORTH END BEFORE CONNECTING MAIN)
 2 - 48" PCCP TO DI ADAPTORS (FOR PLUGGING EXISTING 48-INCH CONCRETE MAIN)
7. FLUSH AND SAMPLE SOUTH TO NORTH THROUGH THE FIRE HYDRANT INSTALLED IN STEP 4.
8. BEFORE THE WATER MAIN CAN BE FILLED AND FLUSHED, THE BRACED EXCAVATION AREA MUST BE BACKFILLED AND THRUST RESTRAINT SYSTEMS IN PLACE.
9. RESTORE ALL WATER MAIN TRENCHES AS SHOWN.



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| USER NAME: mcoller | DESIGNED: MJK | REVISED: 7/14/2016 MJK |
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| | DATE: 5/6/2016 | REVISED: - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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| WATER MAIN RELOCATION | | | |
| LOCATION NO. 2 | | | |
| SCALE: 1:20 | SHEET NO. 2 OF 16 SHEETS | STA. TO STA. | |

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| F.A.I. R.T.E. 90 | SECTION (1517 & 1415) R-3 | COUNTY COOK | TOTAL SHEETS NO. 557 | SHEET NO. 182 |
| ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 60Y38 |

WATERMAIN RELOCATION GENERAL NOTES:

1. EXISTING WATER MAINS TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
2. SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDWM AND IEPA.
3. CASING PIPE DESIGNED TO EXTEND 10' BEYOND FUTURE I-90 WB WIDENING.
4. GRADE PROP. DITCH TO PROVIDE MIN. 5' COVER.
5. THRUST BLOCKING SHALL BE USED AT ALL BENDS AS PER DETAILS SHOWN IN PLANS.
6. THE 12" AND 48" WATER MAINS MAY NOT BE SHUT DOWN AT THE SAME TIME.
7. THE EXISTING 48" WATER MAIN MUST NOT BE SHUT DOWN DURING PEAK SUMMER MONTHS BETWEEN MAY 15 AND SEPTEMBER 15.
8. THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING WATERMAINS IS OBTAINED FROM EXISTING PLANS AND IS APPROXIMATE. THE CONTRACTOR MUST VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING MAINS PRIOR TO THE START OF CONSTRUCTION.
9. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND TO DETERMINE THE EXACT AMOUNT OF MATERIALS.
10. THE CONTRACTOR MUST VERIFY THE OUTER DIAMETER OF THE EXISTING MAINS TO ENSURE PROPER SPECIFICATIONS, ADAPTERS, AND TYPES OF JOINTS FOR WATER MAIN CONNECTIONS.
11. LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.
12. IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH AND MUST REMAIN IN PLACE, THE CONTRACTOR MUST PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES.
13. TEST PITS MUST BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION.
14. WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM IS CONSIDERED INCIDENTAL TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
15. WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE ENGINEER DUE TO FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
16. THE OPERATION OF ALL VALVES REQUIRED FOR SHUTDOWN MUST BE PERFORMED BY CDWM FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT. ANY VALVE FOUND NOT OPERABLE WILL BE REPAIRED OR REPLACED BY CDWM.
17. REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING ANY EXCAVATION INCLUDING LEAKAGE FROM EXISTING WATER MAINS. ALL EXCAVATIONS ASSOCIATED WITH THE WATER MAIN WORK MUST BE KEPT DRY.
18. ALL VALVE BASINS MUST BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
19. IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.
20. USE FILLER PIECES OF PIPE TO FILL THE AREA BETWEEN PIPE ENDS WHEN INSTALLING SLEEVE FITTINGS.
21. ON CONNECTIONS TO EXISTING CAST IRON PIPES, USE CAUTION WHEN INSTALLING MJ SLEEVES. SET SCREW TYPE RESTRAINT GLANDS (E.G. RETAINER GLANDS) ARE NOT ACCEPTABLE. CONSULT THE SPECIFICATIONS FOR JOINT RESTRAINT REQUIREMENTS.
22. SWAB ALL PIPE AND FITTINGS WITH CHLORINE SOLUTION DURING INSTALLATION AND USE EXTRA PRECAUTION TO ENSURE ABSOLUTELY NO SOIL AND DEBRIS ENTERS THE PIPE. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE OPERATING PRESSURE IN LIEU OF PRESSURE TEST TO VISUALLY INSPECT FOR LEAKS. WHEN FEASIBLE, PERFORM INSPECTION PRIOR TO BACKFILLING. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE CDWM BUREAU OF WATER QUALITY. (312) 744-8190
23. PRESSURE TEST AND CHLORINATE ALL PROPOSED WATER MAINS PER THE SPECIFICATIONS AND AS DIRECTED BY CDWM-WATER QUALITY SECTION.
24. CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS ONLY WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO PRIVATE PROPERTY AND SHALL REPAIR SAID DAMAGE AT OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
25. ALL CASING PIPES MUST BE SMOOTH WELDED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A139, GRADE B. THE EXTERIOR OF THE CASING PIPE MUST HAVE COAL-TAR ENAMEL IN ACCORDANCE WITH AWWA C203.
26. PRIOR TO INSERTION IN THE CASING, EACH LENGTH OF PIPE MUST BE SUPPORTED ON CASING SPACERS IN SUCH A MANNER THAT AT NO TIME WILL THE WEIGHT OF THE PIPE BEAR ON THE BELL OR ANY PART OF THE PIPE TOUCH THE CASING.
27. ALL PIPES MUST BE JOINTED PRIOR TO BEING PUSHED OR PULLED THROUGH THE CASING PIPE. AFTER PLACEMENT OF THE CARRIER PIPE THROUGH THE CASING, THE ENDS OF THE CASING ARE TO BE SEALED WITH BRICK AND MORTAR OR RUBBER END SEAL OR OTHER APPROVED METHOD AND MUST BE COMPLETELY LEAK-TIGHT.
28. THE CONTRACTOR IS TO PERFORM ALL PIPEWORK FOR THE WATER MAIN RELOCATIONS INCLUDING THE FINAL CONNECTIONS THE EXISTING MAINS.
29. ALL STATIONS AND OFFSETS REFER TO C 1-90 UNLESS OTHERWISE NOTED.

WATERMAIN RISER SHAFT STRUCTURAL NOTES:

1. POSITIVE STEPS MUST BE TAKEN TO PREVENT ANY DEBRIS ENTERING THE RISER SHAFTS DURING CONSTRUCTION. ANY DEBRIS ENTERING THE RISER SHAFTS MUST BE REMOVED IMMEDIATELY. ANY STEPS THAT ARE DAMAGED MUST BE REPLACED.
2. MATERIAL DEVIATIONS IN DIMENSIONS AND ELEVATIONS WILL BE REPORTED TO THE COMMISSIONER AND REQUIRED ADJUSTMENTS WILL BE MADE.
3. EXTERIOR STEEL RIBS, IF ANY ON EXTERIOR OF WATER MAIN MAY REMAIN EXCEPT AT OPENING.
4. EXISTING WOOD LAGGING, IF ANY, ON EXTERIOR OF WATER MAIN MUST BE REMOVED.
5. CAST-IN-PLACE CONCRETE MUST BE CLASS SI CONCRETE WITH A MINIMUM 14 DAY COMPRESSIVE STRENGTH OF 3,500 PSI IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.
6. REINFORCEMENT BARS MUST BE GRADE 60 CONFORMING TO THE REQUIREMENTS OF SECTION 508 OF THE STANDARD SPECIFICATIONS.
7. REINFORCEMENT BARS DESIGNATED "E1" WILL BE EPOXY-COATED.
8. STRUCTURAL STEEL W SHAPES AND PLATES MUST CONFORM TO THE REQUIREMENTS OF AASHTO M 270 (ASTM A709) GRADE 36 AND SECTION 505 OF THE STANDARD SPECIFICATIONS.
9. ALL BOLTS MUST BE HIGH STRENGTH STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M164 (ASTM A325). HOLES MUST BE 1/16" LARGER THAN FASTENER DIAMETER.
10. ALL BOLTS INCLUDING NUTS AND WASHERS MUST BE GALVANIZED ACCORDING TO AASHTO M232.
11. ALL WATER MAIN PIPE, SLEEVES AND BASE BENDS WILL BE DUCTILE IRON WITH MECHANICALLY RESTRAINED JOINTS.
12. THE EXTERIOR SURFACES OF THE RISER SHAFT WALLS MUST BE WATERPROOFED ACCORDING TO ARTICLE 503.18 OF THE STANDARD SPECIFICATIONS.
13. ANY CHANGES IN DESIGN FROM THAT PRESENTED ON THE DRAWINGS SHALL BE AT THE CONTRACTOR'S RESPONSIBILITY AND EXPENSE, AND MUST BE SUBMITTED TO THE COMMISSIONER FOR REVIEW.
14. CLEAR COVERAGE FOR REINFORCING BARS SHALL BE AS FOLLOWS: 3" WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST GROUND, 2" WHERE CONCRETE IS EXPOSED TO GROUND BUT DEPOSITED AGAINST FORMS OR SLABS ON GRADE AND 1-1/2" TO INSIDE WALL BARS.
15. DO NOT SCALE DRAWINGS.
16. THE LOCATION OF MANHOLE IN THE TOP SLAB AND THE ORIENTATION OF THE WATER MAIN INLET AND OUTLET, WILL BE PER THE CIVIL DRAWINGS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS SHALL BE MODIFIED TO SUIT.
17. AFTER FABRICATION, ALL STRUCTURAL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND PRIMED.
18. B.C. DENOTES BOLD CIRCLE
E.W. DENOTES EACH WAY
E.F. DENOTES EACH FACE
C.T.S. DENOTES CENTER-TO-CENTER
I.F. DENOTES INSIDE FACE
O.F. DENOTES OUTSIDE FACE
2B.M.J. DENOTES TWO BELL MECHANICAL JOINT
R.J.D.I.P. DENOTES RESTRAINED JOINT DUCTILE IRON PIPE
19. THE RISER SHAFT SHALL BE BACKFILLED WITH CA-G MATERIAL IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS UNIFORMLY AROUND THE SHAFT SO AS NOT TO INDUCE UNBALANCED LATERAL LOAD INTO THE SHAFT AS A WHOLE.
20. THE CONTRACTOR CAN ADD CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION AND SHALL UTILIZE IDOT CLASS C SPLICE LENGTHS FOR SPLICES.
21. CAST-IN DOWEL BAR SUBSTITUTES CAN BE USED IN LIEU OF DRILLED AND GROUTED REINFORCING WHERE INDICATED.



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| USER NAME: mh12by | DESIGNED: MJK | REVISED: 7/14/2016 MJK |
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| PLOT SCALE: 1:80' = 1" / 80' | CHECKED: MAM | REVISED: - |
| PLOT DATE: 7/15/2016 | DATE: 5/6/2016 | REVISED: - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
GENERAL NOTES

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------|--------|--------------|--------------------|
| 90 | (1517 & 1415) R-3 | COOK | 557 | 183 |
| | | | | CONTRACT NO. 60Y38 |
| ILLINOIS FED. AID PROJECT | | | | |

SCALE: N.T.S. SHEET NO. 3 OF 16 SHEETS STA. TO STA.