

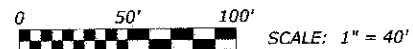
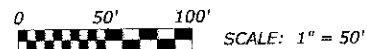
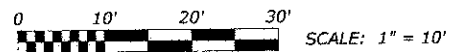
04-26-13 LETTING ITEM 128

FOR INDEX OF SHEETS SEE SHEET NO. 2

**TRAFFIC DATA**

2048 ADT = 3,000  
 POSTED SPEED LIMIT: 20 MPH  
 DESIGN SPEED LIMIT: 30 MPH  
 MINOR ARTERIAL

PROJECT LOCATED IN  
 THE VILLAGE OF RIVER GROVE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E.  
 SCHAUMBURG, ILLINOIS  
 PHONE: (847) 705-4406  
 CONSULTANT: EDWIN HANCOCK ENGINEERING COMPANY  
 9933 ROOSEVELT ROAD PHONE: (708) 865-0300  
 WESTCHESTER, ILLINOIS 60154



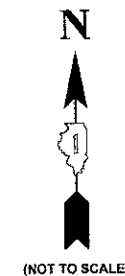
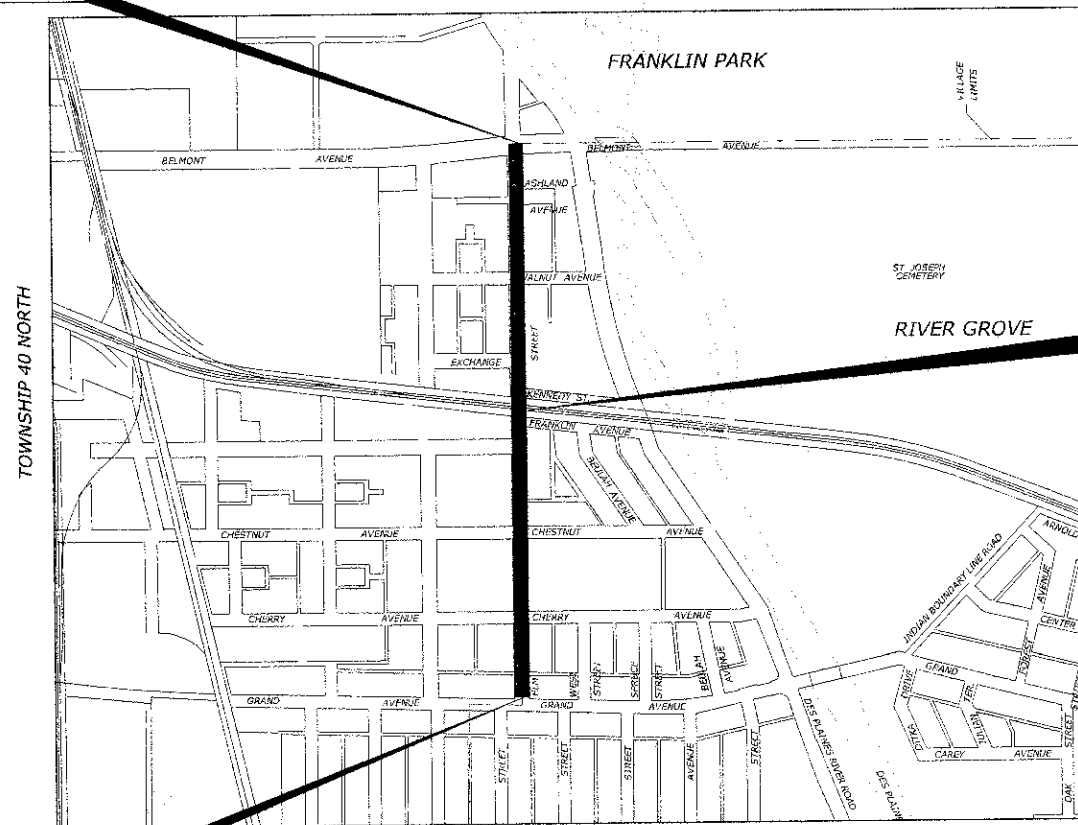
CONTRACT NO. 63771

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID HIGHWAY**  
**FAU 1260 (ELM STREET)**  
**GRAND AVENUE TO BELMONT AVENUE**  
**ROADWAY WIDENING AND RECONSTRUCTION**  
**PROJECT M-4003(030)**  
**SECTION 12-00097-00-PV**  
**VILLAGE OF RIVER GROVE**  
**COOK COUNTY**  
**C-91-443-12**

PROJECT ENDS  
 STATION 30+50  
 ELM STREET

**LOCATION MAP**

RANGE 12 EAST PRINCIPAL MERIDIAN

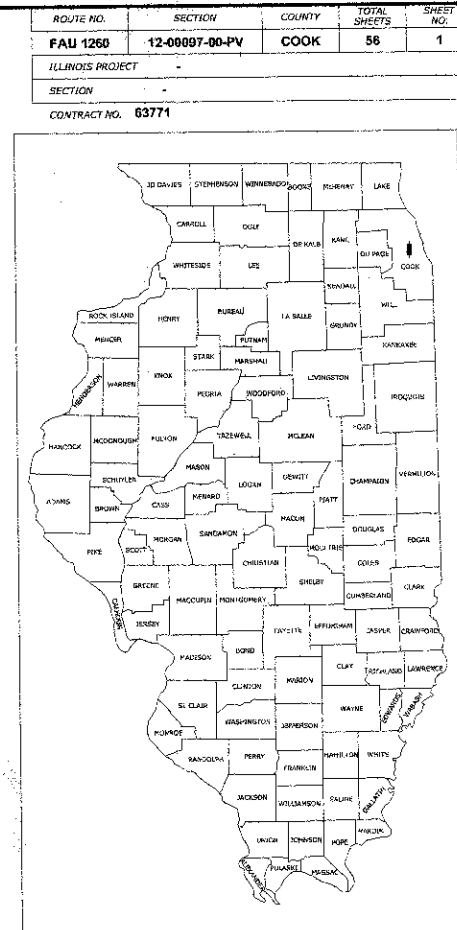


(NOT TO SCALE)

ELM ST. OMISSION  
 ELM STREET  
 STA. 16+98 TO STA. 17+41

PROJECT BEGINS  
 STATION 1+88  
 ELM STREET

MAP SCALE : NONE  
**LEYDEN TOWNSHIP**  
 - AREA OF IMPROVEMENT  
 GROSS LENGTH OF PROJECT = 2862 FT. = 0.542 MI.  
 NET LENGTH OF PROJECT = 2819 FT. = 0.534 MI.



LOCATION OF SECTION INDICATED THUS:

**STATE OF ILLINOIS**  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

APPROVED 12-12 20 12  
  
 VILLAGE OF RIVER GROVE, PRESIDENT

PASSED December 31 20 12  
  
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
 BASED ON LIMITED  
 REVIEW JANUARY 2 20 13  
  
 DEPUTY DIRECTOR OF HIGHWAYS,  
 REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED: 12-12-12  
 LICENSE EXPIRES: 11-30-13

EDWIN HANCOCK ENGINEERING COMPANY  
 9933 ROOSEVELT ROAD PHONE: (708) 865-0300  
 WESTCHESTER, ILLINOIS 60154

E.H.E. NO. 760-12-05201

**INDEX OF SHEETS**

| SHEET NO. | DESCRIPTION   |
|-----------|---|
| 1         | TITLE SHEET, LOCATION MAP   |
| 2         | INDEX OF SHEETS, LEGEND, HIGHWAY STANDARDS & BENCHMARKS                             |
| 3         | GENERAL NOTES   |
| 4-5       | SUMMARY OF QUANTITIES   |
| 6-7       | TYPICAL SECTIONS  |
| 8         | ALIGNMENT AND TIES  |
| 9-15      | PAVING PLAN AND PROFILE   |
| 16-17     | ROADWAY DETAILS   |
| 18-21     | MAINTENANCE OF TRAFFIC PLAN, DETOUR SIGNING PLAN                                    |
| 22-27     | MAINTENANCE OF TRAFFIC PLAN, STAGE CONSTRUCTION PLAN                                |
| 28-29     | EROSION CONTROL PLAN  |
| 30-36     | UTILITIES PLAN AND PROFILE  |
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| 40        | SIGNING PLAN LEGEND AND NOTES   |
| 41-42     | PAVEMENT MARKING AND SIGNING PLAN   |
| 43-44     | ASPHALT AND LANDSCAPING PLAN  |
| 45        | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) |
| 46        | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)                                      |
| 47        | DETOUR SIGNING FOR CLOSING STAGE HIGHWAYS (TC-21)                                   |
| 48        | ARTERIAL ROAD INFORMATION SIGN (TC-22)  |
| 49        | BUTT JOINTS AND HMA TAPER DETAILS (BD-32)   |
| 50-56     | STATION CROSS SECTIONS - ELM STREET   |

**LEGEND OF SYMBOLS**

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-05)

| EXISTING | PROPOSED | DESCRIPTION                                 | EXISTING | PROPOSED | DESCRIPTION  |
|----------|----------|---|----------|----------|--|
|          |          | MAILBOX TO BE RELOCATED                     |          |          | STORM SEWER PIPE   |
|          |          | POWER POLE                                  |          |          | COMBINATION SEWER PIPE   |
|          |          | GAS VALVE                                   |          |          | SANITARY SEWER PIPE  |
|          |          | STREET LIGHT ON COMED POLE                  |          |          | ELECTRIC LINE  |
|          |          | WATER MAIN BUFFALO BOX                      |          |          | GAS LINE   |
|          |          | WATER MAIN VALVE BOX                        |          |          | TELEPHONE LINE   |
|          |          | SPRINKLER                                   |          |          | WATER MAIN PIPE  |
|          |          | WATER MAIN VALVE VAULT                      |          |          | CURB AND GUTTER  |
|          |          | STORM SEWER MANHOLE                         |          |          | DIRECTION OF FLOW  |
|          |          | STORM CATCH BASIN                           |          |          | DRAINAGE SUMMIT  |
|          |          | STORM INLET                                 |          |          | WATER MAIN VALVE VAULT RIM AND TOP OF PIPE ELEVATION               |
|          |          | FIRE HYDRANT                                |          |          | COMBINATION MANHOLE RIM AND INVERT ELEVATION                       |
|          |          | EXISTING STRUCTURE TO BE REMOVED            |          |          | STORM SEWER MANHOLE/CATCHBASIN RIM AND INVERT ELEVATION            |
|          |          | TREE TO BE REMOVED                          |          |          | STRUCTURE TO BE ADJUSTED   |
|          |          | BUSH  |          |          | TYPE 1 FRAME & CLOSED LID  |
|          |          | TREE  |          |          | TYPE 1 FRAME & OPEN LID  |
|          |          | EXISTING CURB AND GUTTER TO BE REMOVED      |          |          | RECONSTRUCT EXISTING STRUCTURE                                     |
|          |          | EARTH EXCAVATION                            |          |          | GROUND ELEVATIONS  |
|          |          | EXISTING CONCRETE AREA TO BE REMOVED        |          |          | CATCH BASINS, TYPE A, 4' DIAMETER, TYPE I FRAME, OPEN LID, SPECIAL |
|          |          | HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT |          |          | CATCH BASINS, TYPE A, 4' DIAMETER, TYPE I FRAME, OPEN LID          |
|          |          | COMBINATION SEWER PIPE TO BE REMOVED        |          |          | INLETS, TYPE A, TYPE I FRAME, OPEN LID                             |
|          |          | STORM SEWER PIPE TO BE REMOVED              |          |          | MANHOLES, TYPE A, 5' DIAMETER, TYPE I FRAME, CLOSED LID            |
|          |          | SANITARY SEWER PIPE TO BE ABANDONED         |          |          |  |
|          |          | WATER MAIN TO BE REMOVED                    |          |          |  |
|          |          | RAIL ROAD GATE                              |          |          |  |

**I.D.O.T. STANDARD DRAWINGS**

| STANDARD NO. | TITLE OR DESCRIPTION   |
|--------------|--|
| 000001-06    | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                         |
| 280001-07    | TEMPORARY EROSION CONTROL SYSTEMS                                    |
| 420001-07    | PAVEMENT JOINTS  |
| 420111-03    | PCC PAVEMENT ROUNDOUTS   |
| 420501-04    | PCC PAVEMENT AND PCC BASE COURSE ADJACENT TO RAILROAD GRADE CROSSING |
| 424001-07    | PERPENDICULAR CURB RAMPS FOR SIDEWALKS                               |
| 602601-02    | PRECAST REINFORCED CONCRETE FLAT SLAB TOP                            |
| 701501-06    | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED                                |
| 701701-08    | URBAN LANE CLOSURE, MULTILANE INTERSECTION                           |
| 701801-05    | SIDEWALK, CORNER OF CROSSWALK CLOSURE                                |
| 701901-02    | TRAFFIC CONTROL DEVICES  |
| 720001-01    | SIGN PANEL MOUNTING DETAILS  |
| 720006-03    | SIGN PANEL ERECTION DETAILS  |
| 720011-01    | METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS                       |
| 729001-01    | APPLICATIONS OF TYPES A&B METAL POSTS                                |
| 780001-03    | TYPICAL PAVEMENT MARKINGS  |
| B,I,R, 14-10 | PORTLAND CEMENT CONCRETE PAVEMENT (NONREINFORCED)                    |

Drawing File: W:\Projects\7637052 - ELM STREET RECONSTRUCTION PHASE 1\02L\Index.dwg Dec 07, 2012 - 2:23pm



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911  
 9933 Roosevelt Road  
 Westchester, Illinois 60154-2700  
 Phone: 708/685-0300  
 Fax: 708/685-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LEGEND OF SYMBOLS**

|        |           |    |        |      |         |
|--------|-----------|----|--------|------|---------|
| SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. |
|--------|-----------|----|--------|------|---------|

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.I. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 2         |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

**ACCESS**

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN INGRESS AND EGRESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING THE CONSTRUCTION PERIOD. DURING CONSTRUCTION, GARBAGE TRUCKS MUST BE PERMITTED ACCESS TO THE WORK ZONE IN ORDER TO PICK UP RESIDENTIAL AND COMMERCIAL GARBAGE FOR THOSE PROPERTIES FRONTING THE WORK ZONE. IF GARBAGE TRUCK ACCESS IS NOT PROVIDED, THE CONTRACTOR WILL BE REQUIRED TO MOVE TRASH CONTAINERS TO AN ACCESSIBLE LOCATION WHICH WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

**UNDERGROUND UTILITIES**

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THE DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGES OF RIVER GROVE AND FRANKLIN PARK, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED IN ACCORDANCE WITH ARTICLE LR 105.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR, BUT WILL BE COORDINATED BY GENERAL CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY EXPLOSIVE, FLAMMABLE, AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS.

**STORM SEWER**

THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 41-1.02A THROUGH 41-1.02D OF THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".

**FRAMES AND GRATES**

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE'S PUBLIC WORKS YARD.

**FORMS FOR CONCRETE SIDEWALKS, DRIVEWAYS, PAVEMENT, AND GUTTER FLAGS**

A 2" X 6" BOARD WILL BE USED AS A FORM FOR ALL SIDEWALKS TO BE INSTALLED FIVE INCHES (5") IN THICKNESS. A 2" X 8" BOARD WILL BE USED AS A FORM FOR ALL DRIVEWAYS TO BE INSTALLED SEVEN INCHES (7") IN THICKNESS. A 2" X 10" BOARD WILL BE USED AS THE FORM FOR ALL PAVEMENTS TO BE INSTALLED EIGHT INCHES (8") IN THICKNESS. A 2" X 12" BOARD WILL BE USED AS THE FORM FOR THE FACE OF THE GUTTER FLAGS TO BE INSTALLED TEN INCHES (10") IN THICKNESS. ALL FORMS MUST BE OF A MINIMUM HEIGHT OF THE PROPOSED THICKNESS OF THE RESPECTIVE CONCRETE ITEMS TO BE INSTALLED.

**OPEN EXCAVATION**

LEAVING OF ANY EXCAVATION NECESSARY FOR STORM SEWERS OPEN OVERNIGHT WILL NOT BE ALLOWED ON THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETELY BACKFILLING OR PLATING OVER OF ALL EXCAVATIONS AT THE END OF EACH DAY. IF THE EXCAVATIONS ARE BACKFILLED THEY SHALL BE FILLED WITH AN AGGREGATE MEETING THE GRADATION OF CA-6. THE MATERIAL WILL BE COMPACTED SUFFICIENTLY TO PREVENT RUTTING OR SETTLEMENT OF MATERIAL UNDER TRAFFIC LOADS. IF PLATES ARE USED THEY SHALL BE OF SUFFICIENT THICKNESS TO SUPPORT VEHICULAR LOADS. ADDITIONALLY THEY SHALL EXTEND A MINIMUM OF NINE INCHES (9") BEYOND THE LIMITS OF THE EXCAVATION ON ALL SIDES. IF THE PLATES ARE TO BE LEFT OVER THE WEEKEND, THE EDGES OF THE PLATES SHALL BE CUSHIONED WITH A BITUMINOUS MIXTURE IN AREAS WHERE VEHICULAR TRAFFIC WILL CROSS THE PLATES.

THE COSTS FOR PROVIDING THE AGGREGATE, PLATES AND BITUMINOUS MIXTURE WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE VARIOUS CONTRACT ITEMS.

**MAINTENANCE OF SEWER FLOWS**

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM AND COMBINED SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. THE COST OF ALL THE PREVIOUSLY MENTIONED WORK SHALL BE INCLUDED IN THE RESPECTIVE SEWER PAY ITEMS. ALL ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS AS WELL AS MATERIAL EXISTING BEFORE CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

**EXISTING STRUCTURE MODIFICATIONS**

ALL KNOWN EXISTING STRUCTURES IN THE PAVEMENT OR ADJACENT AREAS WHICH ARE INVOLVED IN THE CONSTRUCTION HAVE BEEN SHOWN ON THE PLANS AND NOTED AS TO BE REMOVED, FILLED, RECONSTRUCTED, OR ADJUSTED BY THE CONTRACTOR EXCEPT THOSE OF AMERITECH, COMED, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE. WHERE EXISTING STRUCTURES ARE TO BE REMOVED OR FILLED, OR THE EXISTING CASTING REPLACED, THE CASTINGS REMOVED FROM THE STRUCTURE ARE TO REMAIN THE PROPERTY OF THE VILLAGE AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE'S PUBLIC WORKS YARD.

**SHEETING OR SHORING**

IT SHOULD BE NOTED THAT ANY SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS, SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

**MAINTENANCE OF EXISTING DRAINAGE STRUCTURES**

WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS OR DRAINAGE STRUCTURE SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE RESPECTIVE SEWER PAY ITEMS.

**SAW CUTTING**

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND CONCRETE PAVEMENT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PRICE OF SAW CUTTING, AS NOTED ABOVE, SHALL BE INCLUDED IN THE PARTICULAR PAY ITEMS. THE ONLY SAW-CUTTING THAT WILL BE PAID FOR SEPARATELY IS THE SAW-CUT NEEDED LONGITUDINALLY ALONG ELM STREET AS DESCRIBED IN SPECIAL PROVISIONS.

**PROPOSED STRUCTURES**

THE CONTRACTOR SHALL NOT ORDER PROPOSED STRUCTURES UNTIL A JULIE REQUEST HAS BEEN EXECUTED AND THE ENGINEER HAS BEEN NOTIFIED BY THE CONTRACTOR OF ANY CONFLICTS.

**ITEMS TO BE SALVAGED**

WHERE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING SEWER FRAMES AND LIDS, VALVE BOXES, DOMESTIC WATER SERVICE BOXES, FIRE HYDRANTS AND OTHER CASTINGS ARE TO BE REMOVED BY THE CONTRACTOR. ADDITIONALLY, ALL EXISTING SIGNAGE SCHEDULED FOR REMOVAL WILL ALSO BE APPROPRIATED BY THE CONTRACTOR. THESE ITEMS WILL REMAIN THE PROPERTY OF THE VILLAGE, AND SHALL BE DELIVERED TO THE OWNER AT ITS PUBLIC WORKS FACILITY AT 8300 CENTER ST., RIVER GROVE, IL 60171.

**NOTIFICATION OF RESIDENTS**

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING WRITTEN NOTICE TO ALL RESIDENCES AND/OR PLACES OF BUSINESS IN THE WORK ZONE AT LEAST ONE (1) WORKING DAY PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY THAT WILL ELIMINATE ACCESS TO THEIR PROPERTY. THE WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER AND COORDINATED WITH THE VILLAGE PRIOR TO THE BEGINNING OF CONSTRUCTION.

**TRAFFIC PROTECTION**

CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS OF THE CONTRACT WHICH ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL PROJECT COMPLETION. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS. ALL UNBALLASTED TYPE I & TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ONE ACROSS EACH BOTTOM RAIL.

**SOILS REPORT**

A SOILS REPORT HAS BEEN PREPARED CONTAINING CERTAIN INFORMATION RELATING TO GENERAL SOIL CONDITIONS TO BE ENCOUNTERED ALONG THE ROUTE OF THE WORK. THE CONTRACTOR WILL BE PERMITTED TO EXAMINE THIS INFORMATION AND DETERMINE ITS VALUE. ANY ADDITIONAL BORINGS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE MADE AT HIS OWN EXPENSE. THE REPORT CAN BE REVIEWED AT THE OFFICE OF HANCOCK ENGINEERING AT 9933 ROOSEVELT ROAD, WESTCHESTER, IL 60154.

**PLUGGING EXISTING SEWERS AND DRAINS**

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG NON-SHRINK/MORTAR PLUG. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

**UNDERCUT AND AGGREGATE SUBGRADE IMPROVEMENT**

A QUANTITY OF AGGREGATE SUBGRADE IMPROVEMENT AND SUBGRADE REMOVAL HAVE BEEN PROVIDED FOR USE IF THE EXISTING SOILS ARE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH IMPROVED SUBGRADE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED AS DETERMINED BY THE ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY OF AGGREGATE SUBGRADE IMPROVEMENT WILL REMAIN UNUSED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE 3-INCH CAPPING AGGREGATE (CA-6 GRADATION) WILL NOT BE REQUIRED SINCE GRANULAR SUBBASE WILL BE PLACED ON TOP OF THE AGGREGATE SUBGRADE IMPROVEMENT.

**STORM SEWER STRUCTURES**

PRE-CAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH ASTM C-478 WILL BE USED ON ALL STRUCTURES AND RECONSTRUCTED STRUCTURES. FINAL ADJUSTMENT SHALL BE MADE USING PRE-CAST ADJUSTING RINGS. A MAXIMUM OF 8" OF ADJUSTING RINGS WILL BE PERMITTED. THE WORK DESCRIBED WITHIN THE SPECIAL PROVISION FOR FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) SHALL BE PERFORMED WHEN INSTALLING A NEW STORM SEWER STRUCTURE. THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS PROPOSED STORM SEWER STRUCTURES IN THE CONTRACT.

**MANHOLE OR VALVE VAULT COVERS**

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.

**BACKFILLING SEWERS UNDER ROADWAY**

FOR SEWERS UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE (JETTING) AS DESCRIBED IN ARTICLE 550.07 WILL NOT BE ALLOWED.

**RAILROAD FLAGGERS**

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE METRA RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE METRA RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

**NOTE**

THE CONTRACTOR SHALL NOTIFY THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.



◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

9933 Roosevelt Road  
Westchester, Illinois 60154-2789  
Phone: 708/965-0300  
Fax: 708/965-0311

|            |              |           |
|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56           | 3         |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

### SUMMARY OF QUANTITIES

| PIN        | PAY ITEM DESCRIPTION                               | UNIT   | TOTAL QUANTITY | CONS. TYPE CODE<br>RECONSTRUCTION 0004<br>80% FEDERAL 20% LOCAL |
|------------|--|--------|----------------|---|
| * 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER)              | UNIT   | 150            | 150   |
| * 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER)              | UNIT   | 500            | 500   |
| * 20101100 | TREE TRUNK PROTECTION                              | EACH   | 45             | 45  |
| * 20101200 | TREE ROOT PRUNING                                  | EACH   | 45             | 45  |
| * 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL        | CU YD  | 1,125          | 1,125   |
| * 25000400 | NITROGEN FERTILIZER NUTRIENT                       | POUND  | 200            | 200   |
| * 25000500 | PHOSPHORUS FERTILIZER NUTRIENT                     | POUND  | 200            | 200   |
| * 25000600 | POTASSIUM FERTILIZER NUTRIENT                      | POUND  | 200            | 200   |
| * 25200100 | SODDING  | SQ YD  | 7,250          | 7,250   |
| * 25200200 | SUPPLEMENTAL WATERING                              | UNIT   | 100            | 100   |
| ~ 28000510 | INLET FILTERS                                      | EACH   | 30             | 30  |
| ~ 30300001 | AGGREGATE SUBGRADE IMPROVEMENT                     | CU YD  | 1,125          | 1,125   |
| 35101800   | AGGREGATE BASE COURSE, TYPE B 6"                   | SQ YD  | 12,600         | 12,600  |
| 35102100   | AGGREGATE BASE COURSE, TYPE B 9"                   | SQ YD  | 625            | 625   |
| 35300300   | PORTLAND CEMENT CONCRETE BASE COURSE 8"            | SQ YD  | 150            | 150   |
| 40201000   | AGGREGATE FOR TEMPORARY ACCESS                     | TON    | 500            | 500   |
| 40600100   | BITUMINOUS MATERIALS (PRIME COAT)                  | GALLON | 100            | 100   |
| 40600300   | AGGREGATE (PRIME COAT)                             | TON    | 10             | 10  |
| ~ 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT       | SQ YD  | 400            | 400   |
| ~ 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING               | TON    | 170            | 170   |
| 42000301   | PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)     | SQ YD  | 12,600         | 12,600  |
| ~ 42001300 | PROTECTIVE COAT                                    | SQ YD  | 17,000         | 17,000  |
| ~ 42300300 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH | SQ YD  | 750            | 750   |
| ~ 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | SQ YD  | 600            | 600   |
| ~ 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH           | SQ FT  | 15,000         | 15,000  |
| ~ 42400800 | DETECTABLE WARNINGS                                | SQ FT  | 525            | 525   |

| PIN          | PAY ITEM DESCRIPTION                                      | UNIT  | TOTAL QUANTITY | CONS. TYPE CODE<br>RECONSTRUCTION 0004<br>80% FEDERAL 20% LOCAL |
|--------------|---|-------|----------------|---|
| 44000100     | PAVEMENT REMOVAL  | SQ YD | 125            | 125   |
| ~ 44000200   | DRIVEWAY PAVEMENT REMOVAL                                 | SQ YD | 1,500          | 1,500   |
| ~ 44000500   | COMBINATION CURB AND GUTTER REMOVAL                       | FOOT  | 6,100          | 6,100   |
| ~ 44000600   | SIDEWALK REMOVAL  | SQ FT | 15,500         | 15,500  |
| ~ 550A2580   | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30"          | FOOT  | 1,843          | 1,843   |
| ~ 550A2600   | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"          | FOOT  | 461            | 461   |
| ~ 550B2320   | STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 1 12"          | FOOT  | 794            | 794   |
| ~ 550B2330   | STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 1 15"          | FOOT  | 100            | 100   |
| ~ * 56106300 | ADJUSTING WATER MAIN 6"                                   | FOOT  | 40             | 40  |
| ~ * 56300100 | ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS        | FOOT  | 295            | 295   |
| ~ * 56400500 | FIRE HYDANTS TO BE REMOVED                                | EACH  | 1              | 1   |
| ~ * 56400820 | FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX           | EACH  | 1              | 1   |
| ~ * 56500600 | DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED               | EACH  | 45             | 45  |
| ~ * 56500800 | DOMESTIC WATER SERVICE BOXES                              | EACH  | 10             | 10  |
| ~ 60200105   | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID | EACH  | 15             | 15  |
| ~ 60221100   | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID   | EACH  | 13             | 13  |
| ~ 60234200   | INLETS, TYPE A, TYPE 1 FRAME, OPEN LID                    | EACH  | 8              | 8   |
| ~ 60250200   | CATCH BASINS TO BE ADJUSTED                               | EACH  | 2              | 2   |
| ~ 60252800   | CATCH BASINS TO BE RECONSTRUCTED                          | EACH  | 1              | 1   |
| ~ 60255500   | MANHOLES TO BE ADJUSTED                                   | EACH  | 2              | 2   |
| ~ 60257900   | MANHOLES TO BE RECONSTRUCTED                              | EACH  | 22             | 22  |
| ~ 60265700   | VALVE VAULTS TO BE ADJUSTED                               | EACH  | 8              | 8   |
| ~ 60266100   | VALVE VAULTS TO BE RECONSTRUCTED                          | EACH  | 5              | 5   |
| ~ 60406000   | FRAMES AND LIDS, TYPE 1, OPEN LID                         | EACH  | 1              | 1   |
| ~ 60406100   | FRAMES AND LIDS, TYPE 1, CLOSED LID                       | EACH  | 40             | 40  |
| * 66900200   | NON-SPECIAL WASTE DISPOSAL                                | CU YD | 2250           | 2,250   |

~ DENOTES SPECIAL PROVISION HAS BEEN PROVIDED  
\* DENOTES SPECIALTY ITEM

Drawing file: W:\Projects\76012052 - CU SHIELD RECONSTRUCTION PHASE II\04-05\_C00.dwg Date: 07/27/2012 10:26am

**HANCOCK ENGINEERING**

◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

9913 Zionsville Road  
Westchester, Illinois 60154-2700  
Phone: 708/865-0300  
Fax: 708/865-1212

|                      |           |
|----------------------|-----------|
| DESIGNED - CB/SBC    | REVISED - |
| DRAWN - ECW, MK, DMM | REVISED - |
| CHECKED - MDL        | REVISED - |
| DATE - 12-7-12       | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

| F.A.U. RTE.                                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 1260  | 12-00097-00-PV | COOK               | 56           | 4         |
| FIELD BOOK NO.: X                                 |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS   FED. AID PROJECT |                |                    |              |           |

**SUMMARY OF QUANTITIES**

| PIN        | PAY ITEM DESCRIPTION   | UNIT    | TOTAL QUANTITY | CONS. TYPE CODE<br>RECONSTRUCTION 0004<br>80% FEDERAL 20% LOCAL |
|------------|--|---------|----------------|---|
| * 66900530 | SOIL DISPOSAL ANALYSIS   | EACH    | 1              | 1   |
| 67100100   | MOBILIZATION   | L SUM   | 1              | 1   |
| 70106800   | CHANGEABLE MESSAGE SIGN  | CAL. MO | 12             | 12  |
| 70300100   | SHORT TERM PAVEMENT MARKING  | FOOT    | 400            | 400   |
| 70301000   | WORK ZONE PAVEMENT MARKING REMOVAL   | SQ FT   | 800            | 800   |
| * 72000100 | SIGN PANEL - TYPE 1  | SQ FT   | 275            | 275   |
| * 72900100 | METAL POST - TYPE A  | FOOT    | 750            | 750   |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6"   | FOOT    | 250            | 250   |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24"  | FOOT    | 205            | 205   |
| * 78008200 | POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS   | SQ FT   | 40             | 40  |
| * 78008210 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4"   | FOOT    | 5000           | 5,000   |
| * 78008230 | POLYUREA PAVEMENT MARKING TYPE I - LINE 6"   | FOOT    | 850            | 850   |
| * 78008250 | POLYUREA PAVEMENT MARKING TYPE I - LINE 12"  | FOOT    | 500            | 500   |
| * 78008270 | POLYUREA PAVEMENT MARKING TYPE I - LINE 24"  | FOOT    | 200            | 200   |
| * A2000724 | TREE, ACER PLATANOIDES COLUMNARE, (COLUMNAR NORWAY MAPLE), 3" CALIPER BALLED AND BURLAPPED                           | EACH    | 3              | 3   |
| * A2004568 | TREE, GINKGO BILOBA MAGYAR ARISTOCRAT (MAGYAR ARISTOCRAT GINKO), TREE FORM, 3" CALIPER BALLED AND BURLAPPED          | EACH    | 9              | 9   |
| * A2004621 | TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS IMPERIAL (IMPERIAL THORNLESS HONEYLOCUST), 3" CALIPER, BALLED AND BURLAPPED | EACH    | 3              | 3   |
| * A2006420 | TREE, QUERCUS ALBA (WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED   | EACH    | 2              | 2   |
| * A2008124 | TREE, TILIA CORDATA GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 3" CALIPER, BALLED AND BURLAPPED                     | EACH    | 2              | 2   |
| * A2008748 | TREE, ULMUS X FRONTIER (FRONTIER ELM), 3" CALIPER, BALLED AND BURLAPPED, MATCHING HEADS                              | EACH    | 12             | 12  |
| * B2003224 | TREE, MALUS DAVID (DAVID CRABAPPLE), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED                                     | EACH    | 6              | 6   |
| * B2006322 | TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 3" CALIPER, BALLED AND BURLAPPED               | EACH    | 6              | 6   |
| * K1003680 | MULCH  | CU YD   | 30             | 30  |
| ~ X0322719 | TEMPORARY DRAINAGE CONNECTION  | EACH    | 1              | 1   |
| ~ X0322916 | PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER  | EACH    | 1              | 1   |
| ~ X0322917 | PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE  | EACH    | 1              | 1   |

| PIN          | PAY ITEM DESCRIPTION   | UNIT  | TOTAL QUANTITY | CONS. TYPE CODE<br>RECONSTRUCTION 0004<br>80% FEDERAL 20% LOCAL |
|--------------|--|-------|----------------|---|
| ~ X0323389   | STORM SEWER CONNECTION   | EACH  | 1              | 1   |
| ~ X0325366   | STORM SEWER REPAIR   | FOOT  | 16             | 16  |
| ~ X0325607   | GROUND STABILIZATION GEOSYNTHETIC                                  | SQ YD | 12600          | 12,600  |
| ~ * X0326713 | SANITARY SEWER CONNECTION  | EACH  | 7              | 7   |
| ~ X0327301   | RELOCATE EXISTING MAILBOX  | EACH  | 15             | 15  |
| ~ * X0426200 | DEWATERING   | L SUM | 1              | 1   |
| ~ X2020410   | EARTH EXCAVATION (SPECIAL)   | CU YD | 4125           | 4,125   |
| ~ X2080250   | TRENCH BACKFILL, SPECIAL   | CU YD | 5050           | 5,050   |
| ~ * X2110104 | TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)                            | SQ YD | 7250           | 7,250   |
| ~ X2130010   | EXPLORATION TRENCH, SPECIAL  | FOOT  | 250            | 250   |
| ~ X4021000   | TEMPORARY ACCESS (PRIVATE ENTRANCE)                                | EACH  | 30             | 30  |
| ~ X5504200   | DUCTILE IRON STORM SEWER, 12 INCH                                  | FOOT  | 85             | 85  |
| ~ * X5620110 | WATER SERVICE LINE RELOCATED                                       | FOOT  | 150            | 150   |
| ~ X6022805   | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL | EACH  | 3              | 3   |
| ~ X6064200   | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)        | FOOT  | 6100           | 6,100   |
| ~ X7010216   | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)                          | L SUM | 1              | 1   |
| ~ X7240600   | REMOVE AND RE-ERECT EXISTING SIGN                                  | EACH  | 30             | 30  |
| ~ LR430010   | PAVING BRICK PAVEMENT FOR LIGHT TRAFFIC                            | SQ YD | 10             | 10  |
| ~ Z0018700   | DRAINAGE STRUCTURE TO BE REMOVED                                   | EACH  | 25             | 25  |
| ~ Z0019600   | DUST CONTROL WATERING  | UNIT  | 100            | 100   |
| ~ Z0030850   | TEMPORARY INFORMATION SIGNING                                      | SQ FT | 52             | 52  |
| ~ Z0048665   | RAILROAD PROTECTION LIABILITY INSURANCE                            | L SUM | 1              | 1   |
| ~ Z0062000   | SAW CUTTING  | FOOT  | 3000           | 3,000   |
| ~ Z0062456   | TEMPORARY PAVEMENT   | SQ YD | 250            | 250   |
| ~ Z0076600   | TRAINEES   | HOURL | 1000           | 1000  |
| ~ Z0076604   | TRAINEES TRAINING PROGRAM GRADUATE                                 | HOURL | 1000           | 1000  |

~ DENOTES SPECIAL PROVISION HAS BEEN PROVIDED    Δ 0042  
\* DENOTES SPECIALTY ITEM

Drawing file: W:\Projects\17501202 - 514 STREET RECONSTRUCTION PHASE II\04-05\_000.dwg    Dec 12, 2012 - 2:18pm

**HANCOCK ENGINEERING** ♦ Civil Engineers    ♦ Municipal Consultants    ♦ Established 1911  
 9933 Shawnee Road    Woodstock, Illinois 60154-1789    Phone: 708/965-9300    Fax: 708/965-1312

|                      |            |
|----------------------|------------|
| DESIGNED - CB/SBC    | REVISIED - |
| DRAWN - ECW, MK, DMM | REVISIED - |
| CHECKED - MDL        | REVISIED - |
| DATE - 12-7-12       | REVISIED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|                              |         |
|------------------------------|---------|
| <b>SUMMARY OF QUANTITIES</b> |         |
| SCALE: NONE                  | TO STA. |
| SHEET NO. 1 OF 1 SHEETS      | STA.    |

|   |                        |                    |                 |             |
|---|------------------------|--------------------|-----------------|-------------|
| F.A.U. RTE. 1260                                | SECTION 12-00097-00-PV | COUNTY COOK        | TOTAL SHEETS 56 | SHEET NO. 5 |
| FIELD BOOK NO.: X                               |                        | CONTRACT NO. 63771 |                 |             |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                        |                    |                 |             |

**TYPICAL CROSS SECTION LEGEND**

**EXISTING**

- 1 PORTLAND CEMENT CONCRETE SIDEWALK
- 2 COMBINATION CURB AND GUTTER REMOVAL (TYPE B-6.12)
- 3 HOT-MIX ASPHALT BINDER & SURFACE COURSE, 2" -13 1/2"
- 4 EARTH EXCAVATION (SPECIAL)
- 5 GRASS PARKWAY
- 6 POZZOLANIC BASE COURSE, 8"-14"
- 7 CRUSHED STONE BASE COURSE, 8" - 9"
- 8 VARIOUS CLAY SOILS
- 9 NON-SPECIAL WASTE DISPOSAL
- 10 GEOTEXTILE FABRIC

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

| MIXTURE TYPE   | AIR VOIDS @ Ndes |
|--|------------------|
| <b>INCIDENTAL HOT-MIX ASPHALT SURFACING - BUTT JOINT</b>       |                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"               | 4% @ 50 Gyr.     |
| <b>INCIDENTAL HOT-MIX ASPHALT SURFACING - HMA PARKWAYS</b>     |                  |
| HOT-MIX ASPHALT SURFACE COURSE, IL 19.8, N50, 3" (2 LIFTS)     | 4% @ 50 Gyr.     |
| <b>TEMPORARY PAVEMENT</b>                                      |                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 1.5" | 4% @ 50 Gyr.     |

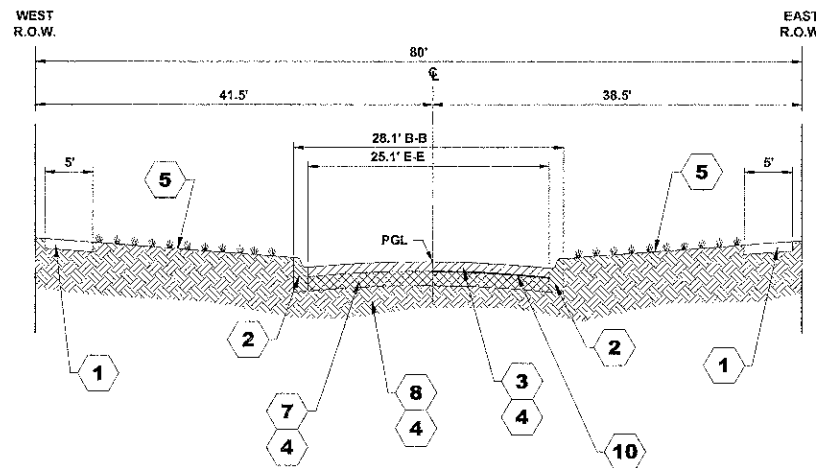
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 78-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

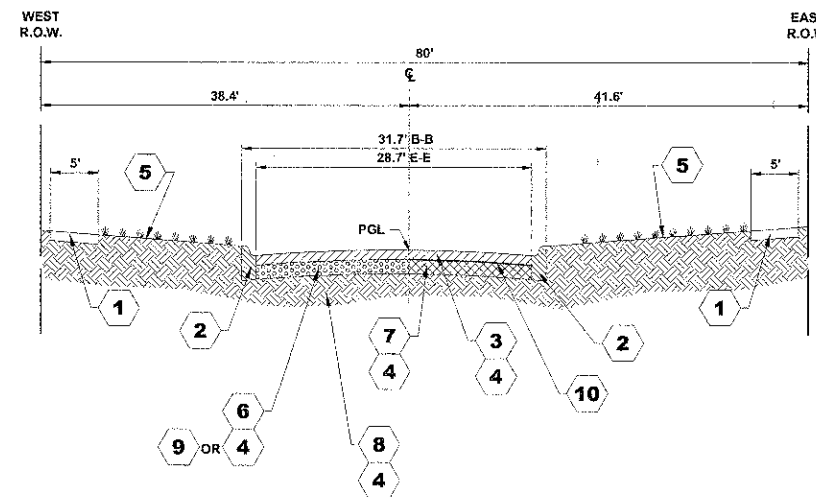
**NOTES:**

ACCORDING TO SOIL BORINGS TAKEN IN JULY OF 2012, IT IS ANTICIPATED THAT THE WEST HALF OF THIS EXISTING ROADWAY IS CONSTRUCTED OF A POZZOLANIC BASE MATERIAL. FURTHER TESTING SUGGESTS THAT THIS BASE MATERIAL MAY POSSESS A PH VALUE THAT COULD TRIGGER REJECTION FROM CCDD FACILITIES IF THE MATERIAL GRANULIZES DURING THE EXCAVATION PROCESS. AS A RESULT OF THIS INFORMATION, THE EXCAVATION OF THE EXISTING ROADWAY AREA, WEST OF THE ROADWAY CENTER-LINE, IS NOT INCLUDED IN THE QUANTITY FOR EARTH EXCAVATION (SPECIAL), BUT IS INCLUDED IN THE PAY ITEM, NON-SPECIAL WASTE DISPOSAL. DUE TO THE PROBABLE MIXING OF MATERIAL, ANY EARTH EXCAVATION BELOW THE POZZOLANIC BASE WILL ALSO BE INCLUDED IN THE PLAN CALCULATIONS FOR NON-SPECIAL WASTE DISPOSAL. IF DURING CONSTRUCTION IT IS FOUND THAT THE EXISTING BASE IS NOT COMPRISED OF POZZOLANIC BASE, OR THAT THE CONTRACTOR'S SELECTED CCDD FACILITY IS ACCEPTING THE EXCAVATED MATERIAL, NEW CALCULATIONS WILL BE COMPUTED TO ILLUSTRATE THE CHANGE IN EXPECTED CONDITIONS.

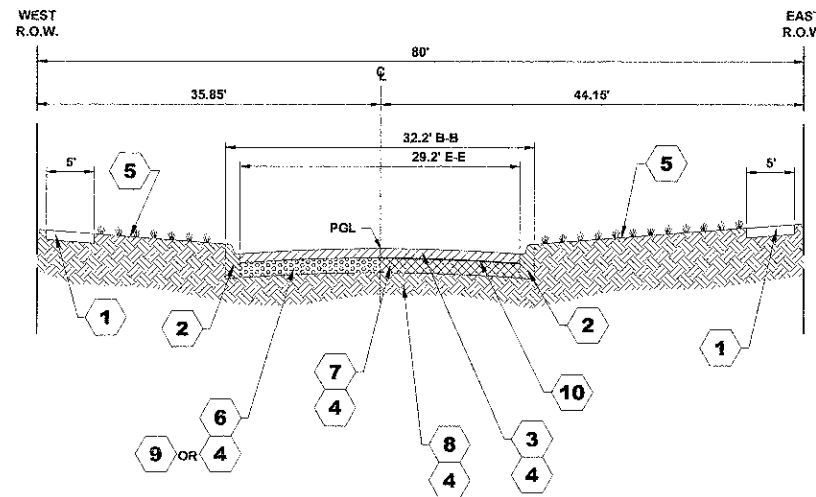
NO COST ADJUSTMENTS TO UNIT PRICES WILL BE MADE FOR VARIATIONS IN MATERIAL TYPE OR THICKNESS THAT MAY BE ENCOUNTERED.



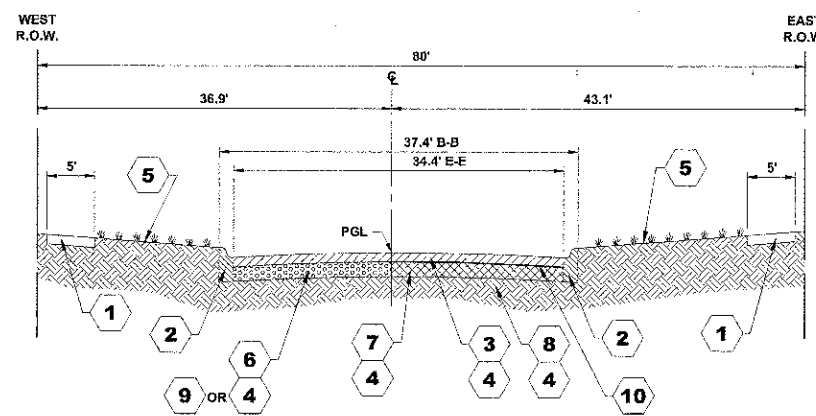
**EXISTING TYPICAL CROSS SECTION**  
ELM STREET  
(STA. 1+88 TO STA. 10+60)



**EXISTING TYPICAL CROSS SECTION**  
ELM STREET  
(STA. 10+60 TO STA. 15+10)



**EXISTING TYPICAL CROSS SECTION**  
ELM STREET  
(STA. 15+10 TO STA. 17+00)



**EXISTING TYPICAL CROSS SECTION**  
ELM STREET  
(STA. 17+40 TO STA. 30+50)

**PAVEMENT CORE SUMMARY**

| BORE | STREET | STATION       | LANE            | BITUMINOUS | POZZOLANIC | STONE BASE | WATER DEPTH |
|------|--------|---------------|-----------------|------------|------------|------------|-------------|
| C-1  | ELM    | 3+00, 8' RT   | NORTHBOUND LANE | 3 1/2"     | 0"         | 8"         | 5.0'        |
| C-2  | ELM    | 6+00, 8' LT   | SOUTHBOUND LANE | 3"         | 0"         | 9"         | 5.0'        |
| C-3  | ELM    | 9+00, 9' RT   | NORTHBOUND LANE | 3 1/2"     | 0"         | 8"         | 5.5'        |
| C-4  | ELM    | 12+00, 11' LT | SOUTHBOUND LANE | 2"         | 10"        | 0"         | DRY         |
| C-5  | ELM    | 15+00, 11' RT | NORTHBOUND LANE | 13 1/2"    | 0"         | 4"         | DRY         |
| C-6  | ELM    | 18+00, 10' LT | SOUTHBOUND LANE | 3"         | 10"        | 0"         | 13.0'       |
| C-7  | ELM    | 21+00, 16' RT | NORTHBOUND LANE | 4 1/2"     | 0"         | 11"        | 13.0'       |
| C-8  | ELM    | 23+90, 10' LT | SOUTHBOUND LANE | 4 1/2"     | 13 1/2"    | 0"         | DRY         |
| C-9  | ELM    | 27+00, 8' RT  | NORTHBOUND LANE | 4 1/2"     | 0"         | 10"        | 13.0'       |
| C-10 | ELM    | 30+00, 10' LT | SOUTHBOUND LANE | 4"         | 8"         | 0"         | 0.9'        |

**NOTES:**

THESE CORES REFLECT ONLY THE INFORMATION FOUND AT LOCATION LISTED. THEY DO NOT REFLECT ANY VARIATIONS WHICH MAY OCCUR BETWEEN THESE BORINGS.

Drawing file: W:\Projects\16012052 - ELM STREET RECONSTRUCTION PHASE II\06-07-Typical.dwg Date: 07/30/12 2:27pm



Civil Engineers  
Municipal Consultants  
Established 1911

9535 Roswell Road  
Waukegan, Illinois 60154-2790  
Phone: 708/965-0389  
Fax: 708/965-1312

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

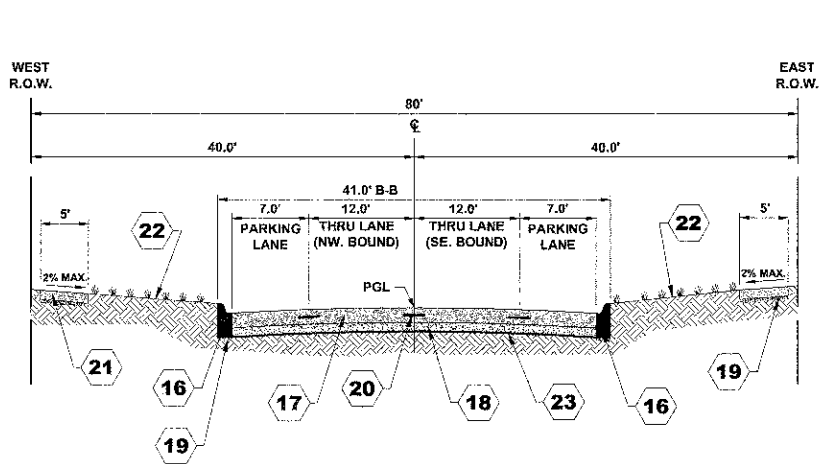
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

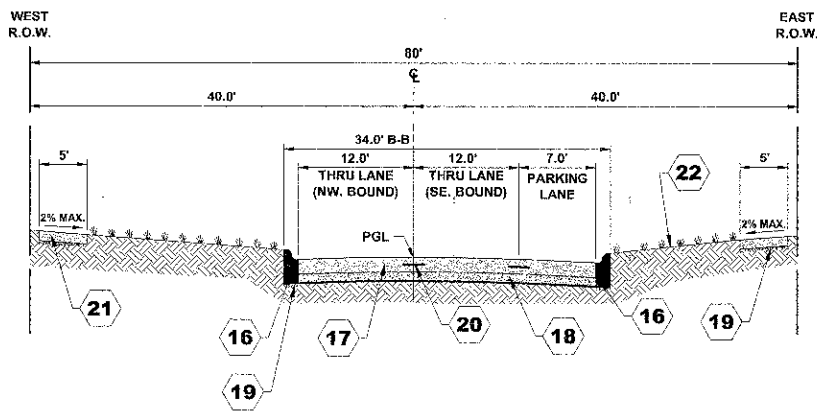
SCALE: NOT TO SCALE SHEET NO. 1 OF 2 SHEETS STA. - TO STA. -

|                                |                |                    |              |           |
|--------------------------------|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                    | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260                           | 12-00097-00-PV | COOK               | 56           | 6         |
| FIELD BOOK NO. : X             |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS |                | FED. AID PROJECT   |              |           |





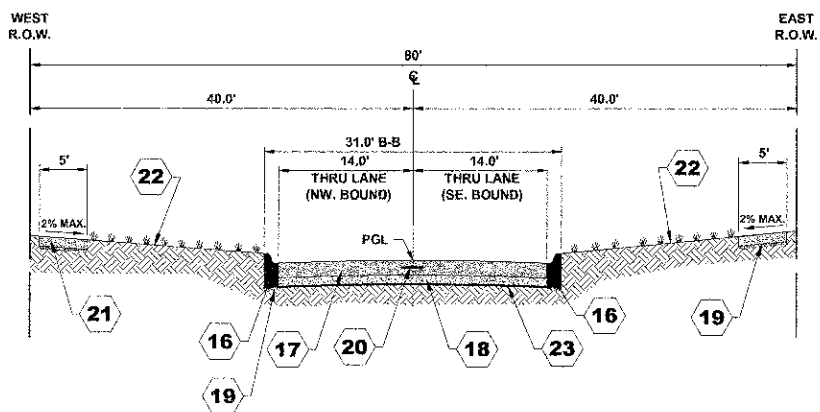
**PROPOSED TYPICAL CROSS SECTION**  
**ELM STREET**  
 (STA. 1+88 TO STA. 6+20)  
 (STA. 8+33 TO STA. 15+10)  
 (STA. 19+65 TO STA. 30+50)



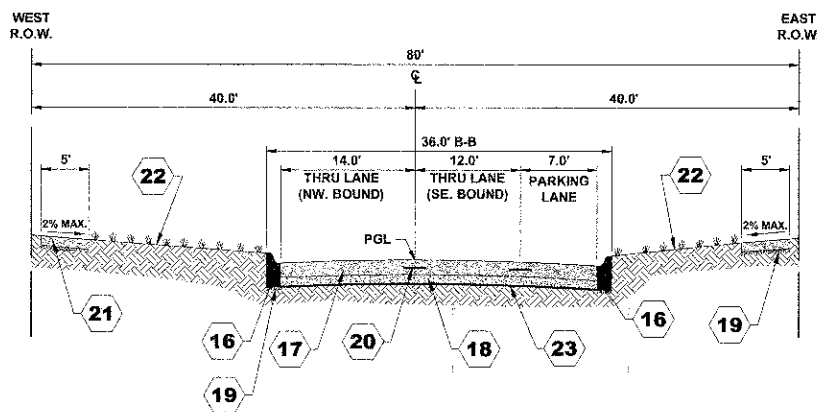
**PROPOSED TYPICAL CROSS SECTION**  
**ELM STREET**  
 (STA. 6+20 TO STA. 8+33)

**TYPICAL CROSS SECTION LEGEND**

- PROPOSED**
- 16 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
  - 17 PORTLAND CEMENT CONCRETE PAVEMENT, 8" (JOINTED)
  - 18 AGGREGATE BASE COURSE, TYPE B 6"
  - 19 SUBBASE GRANULAR MATERIAL, TYPE B 2"  
(INCLUDED IN THE COST OF ITEM)
  - 20 TIE BARS 3/4"  
(EPOXY COATED, 18" LONG DEFORMED TIE BARS @ 24" O.C.)  
(INCLUDED IN COST OF PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED))
  - 21 PORTLAND CEMENT CONCRETE SIDEWALK, 5"  
(INTERMITTENT REMOVAL)
  - 22 TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)  
SODDING
  - 23 GROUND STABILIZATION GEOSYNTHETIC



**PROPOSED TYPICAL CROSS SECTION**  
**ELM STREET**  
 (STA. 16+48 TO STA. 17+94)



**PROPOSED TYPICAL CROSS SECTION**  
**ELM STREET**  
 (STA. 15+10 TO STA. 16+48)  
 (STA. 17+94 TO STA. 19+65)

**LOCATIONS OF PROBABLE AGGREGATE SUBGRADE IMPROVEMENT**  
 (LOCATIONS PER SOIL REPORT)

| LOCATION                 |       |       |                 |
|--------------------------|-------|-------|-----------------|
|                          | WIDTH | DEPTH | VOLUME          |
| STA. 10+50 TO STA. 13+50 | 38.0' | 0.5'  | 211.0 CY        |
| STA. 16+50 TO STA. 17+00 | 28.0' | 2.0'  | 103.7 CY        |
| STA. 17+50 TO STA. 19+50 | 33.0' | 2.0'  | 488.9 CY        |
|                          |       |       | <b>803.6 CY</b> |

**NOTE:**

"AGGREGATE SUBGRADE IMPROVEMENT LOCATIONS HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT OF SUBGRADE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH AGGREGATE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

Drawing file: W:\Projects\7012052 - Elm Street Reconstruction Phase II\08-07-Typical.dwg Date: 07/20/12 2:27pm



Civil Engineers  
 Municipal Consultants  
 Established 1911

9933 Roosevelt Road  
 Westchester, Illinois 60154-2750  
 Phone: 708/965-4500  
 Fax: 708/965-1121

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

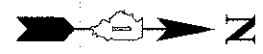
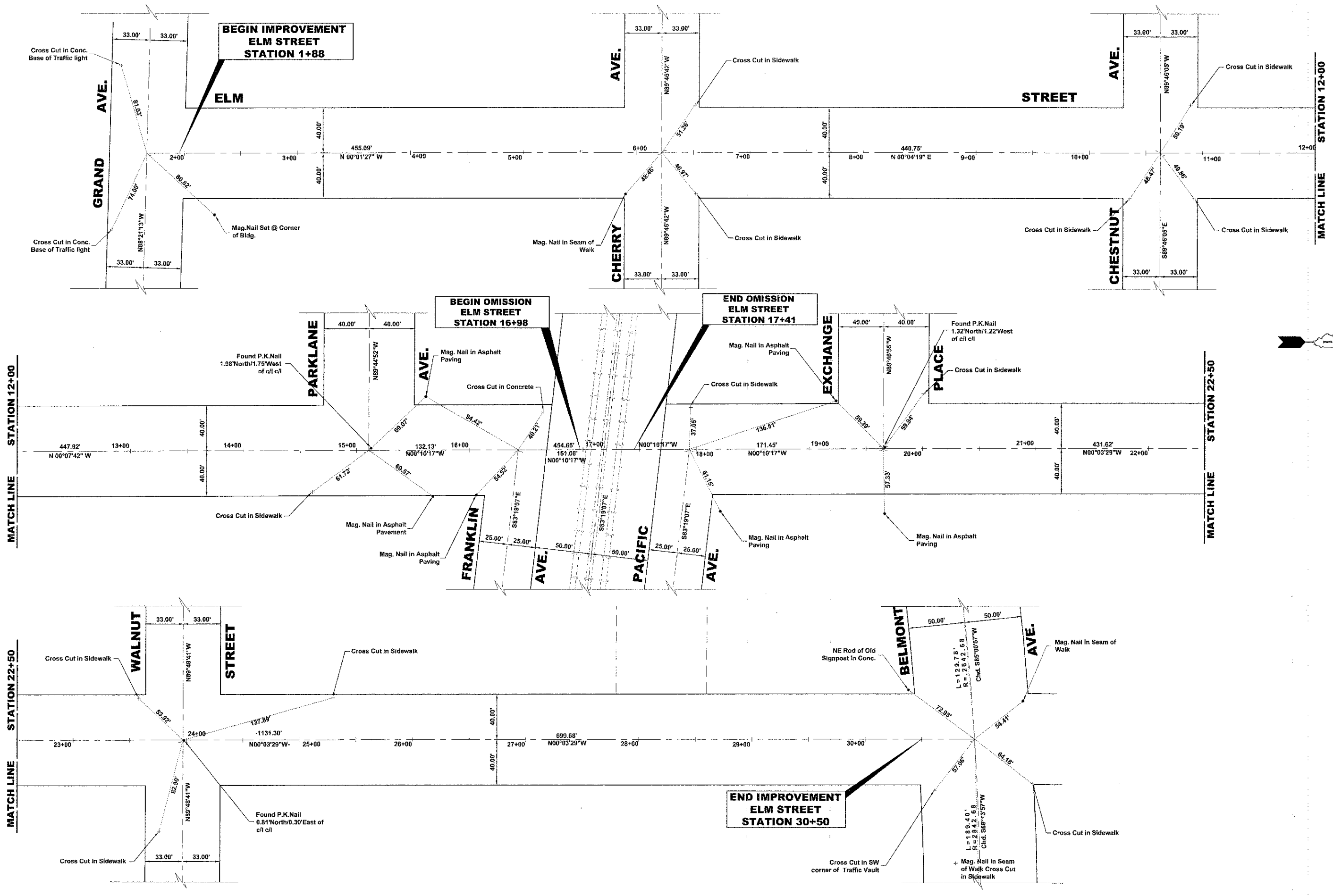
**TYPICAL SECTIONS**

SCALE: NOT TO SCALE SHEET NO. 2 OF 2 SHEETS STA. - TO STA. -

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.I. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56           | 7         |
| FIELD BOOK NO.: X                               |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

E.H.E. PROJECT NO. 760-12-05201

Drawing file: W:\Projects\76012032 - ELM STREET RECONSTRUCTION - HASC N\C8\_alignments.dwg Dec 07, 2012 - 2:28pm



**HANCOCK ENGINEERING**

- Civil Engineers
- Municipal Consultants
- Established 1911

5933 Roosevelt Road  
 Wheeling, Illinois 60154-3786  
 Phone: 708/965-0349  
 Fax: 708/965-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ELM STREET  
 ALIGNMENT AND TIES**

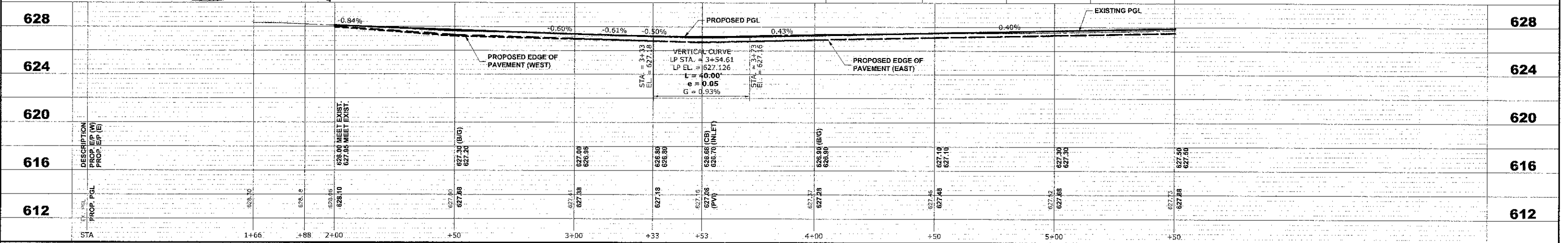
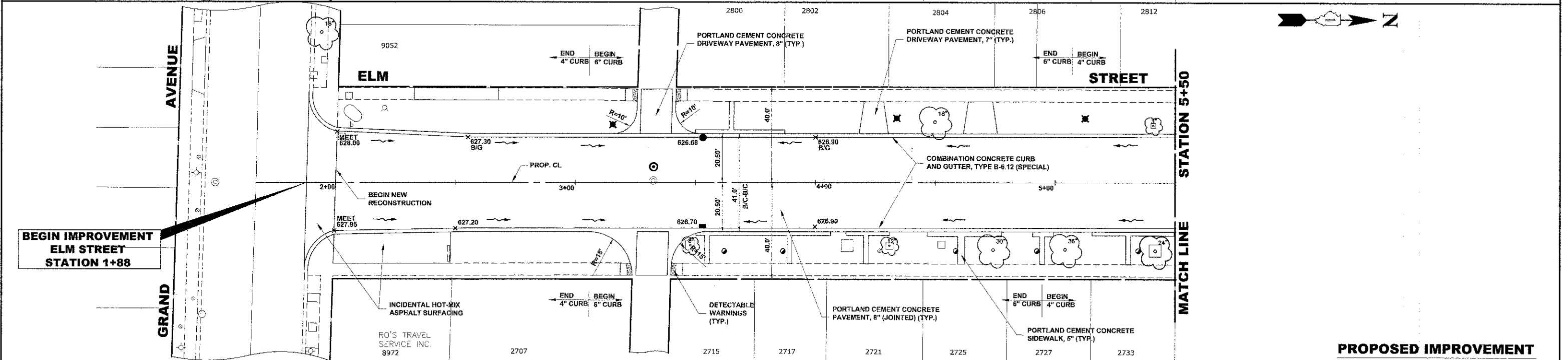
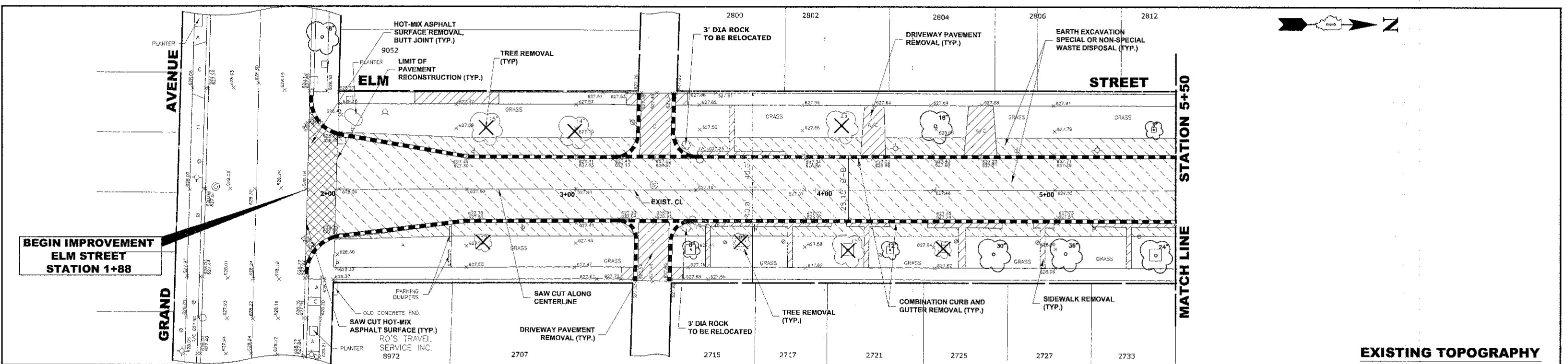
SCALE: 1"=60'

SHEET NO. 1 OF 1 SHEETS    STA. -    TO STA. -

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|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56           | 8         |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |



Drawing File: W:\Projects\76012002 - ELM STREET RECONSTRUCTION PHASE II\TOP\CLM STREET -000.dwg Dec 07, 2012 2:30pm



**HANCOCK ENGINEERING**

- Civil Engineers
- Municipal Consultants
- Established 1911

3933 Roosevelt Road  
Waukegan, Illinois 60084-3780  
Phone: 708/845-2500  
Fax: 708/845-1213

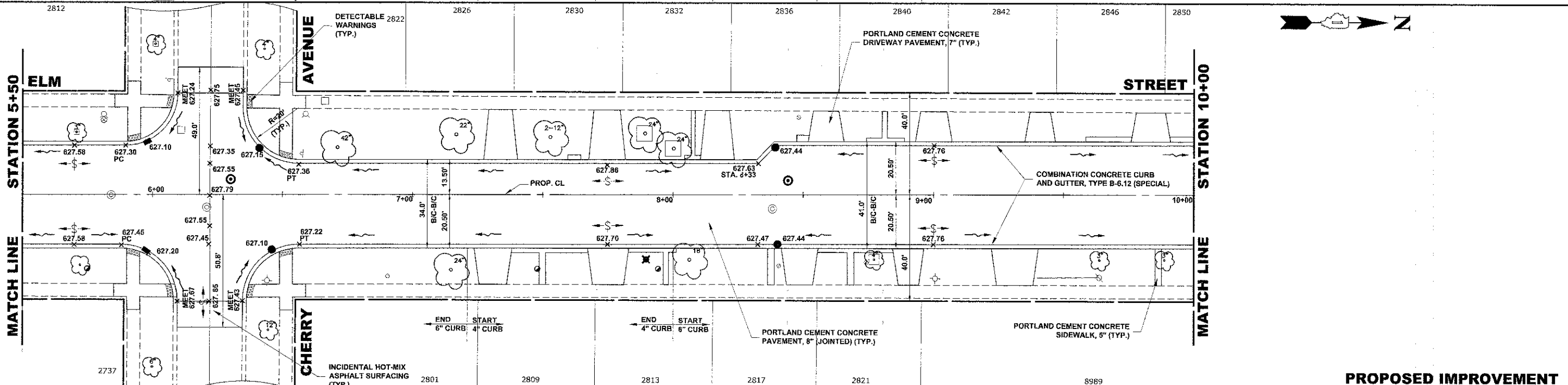
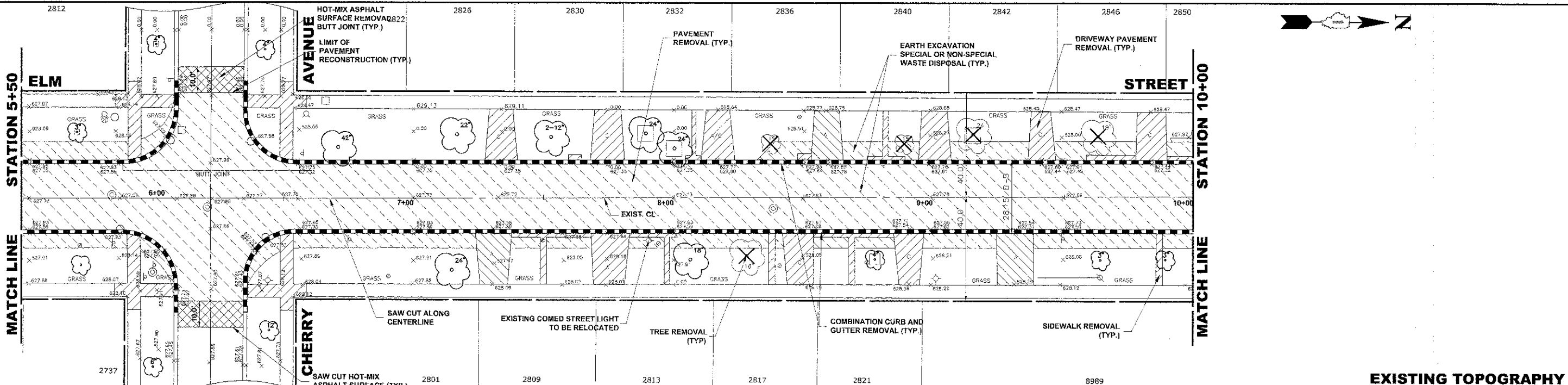
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| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELM STREET  
PAVING PLAN AND PROFILE**

SCALE: 1"=20' H, 4"V    SHEET NO. 1 OF 7 SHEETS    STA. 1+88    TO STA. 5+50

|                       |                |                    |                  |           |
|-----------------------|----------------|--------------------|------------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK               | 56               | 9         |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           | FED. AID PROJECT |           |



| STA  | PROPOSED PGL | PROPOSED EDGE OF PAVEMENT (EAST) | EXISTING PGL | PROPOSED EDGE OF PAVEMENT (WEST) | STA   |
|------|--------------|----------------------------------|--------------|----------------------------------|-------|
| 5+50 | 627.58       | 627.58                           | 627.58       | 627.58                           | 6+00  |
| 6+00 | 627.30       | 627.30                           | 627.30       | 627.30                           | 6+50  |
| 6+50 | 627.10       | 627.10                           | 627.10       | 627.10                           | 7+00  |
| 7+00 | 627.35       | 627.35                           | 627.35       | 627.35                           | 7+50  |
| 7+50 | 627.15       | 627.15                           | 627.15       | 627.15                           | 8+00  |
| 8+00 | 627.36       | 627.36                           | 627.36       | 627.36                           | 8+50  |
| 8+50 | 627.86       | 627.86                           | 627.86       | 627.86                           | 9+00  |
| 9+00 | 627.44       | 627.44                           | 627.44       | 627.44                           | 9+50  |
| 9+50 | 627.76       | 627.76                           | 627.76       | 627.76                           | 10+00 |

**HANCOCK ENGINEERING**  
Civil Engineers  
Municipal Consultants  
Established 1911

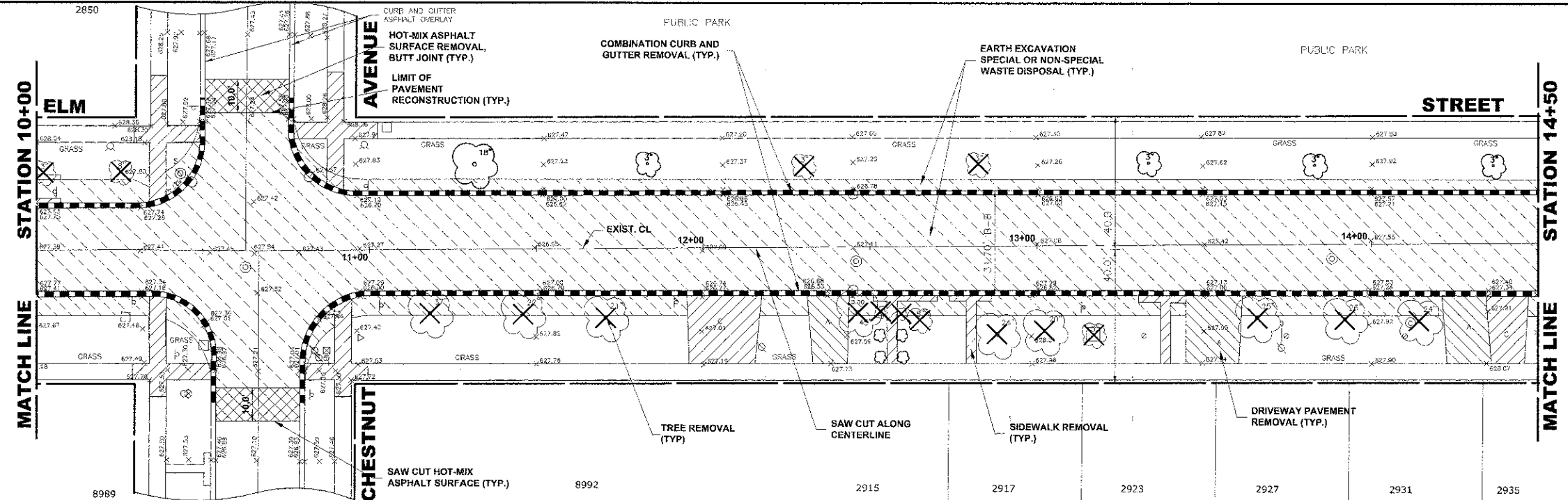
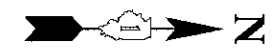
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ELM STREET**  
**PAVING PLAN AND PROFILE**

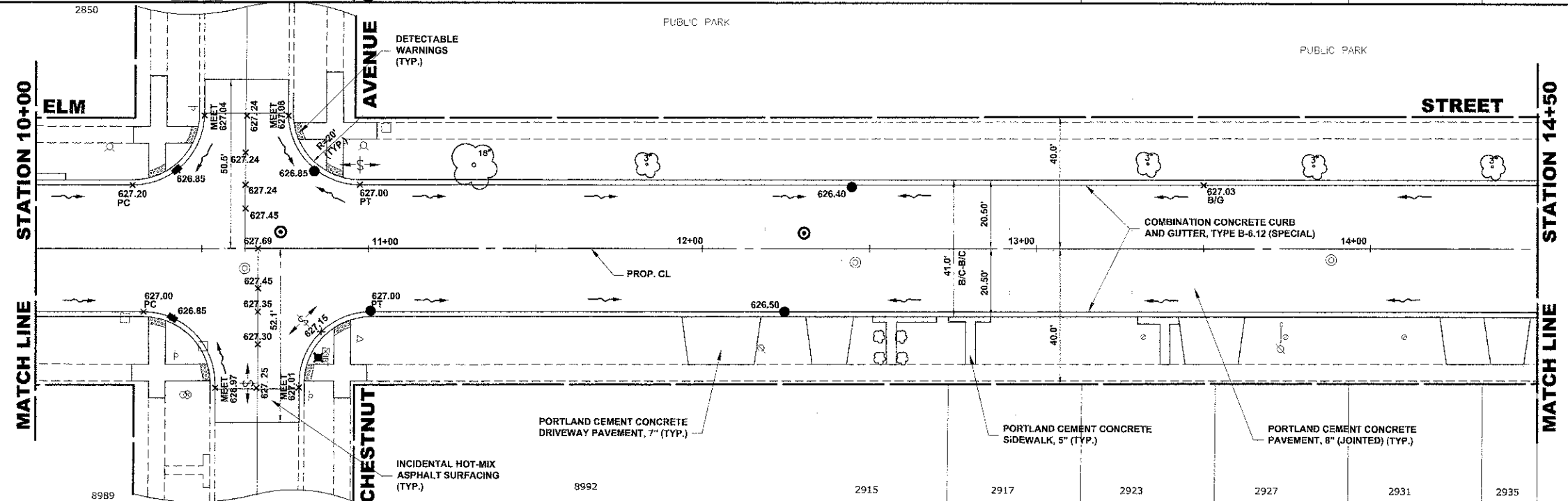
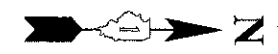
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SECTION 12-00097-00-PV  
COUNTY COOK  
TOTAL SHEETS 56  
SHEET NO. 10  
FIELD BOOK NO. X  
CONTRACT NO. 63771  
FED. ROAD DIST. NO. 1 ILLINOIS  
FED. AID PROJECT

SCALE: 1"=20' H./4'V SHEET NO. 2 OF 7 SHEETS STA. TO STA.

Drawing file: W:\Projects\76012012 - ELM STREET RECONSTRUCTION - PLAN - ILLINOIS\ELM STREET 7090.dwg Date: 07/12/2012 2:30pm



**EXISTING TOPOGRAPHY**



**PROPOSED IMPROVEMENT**

| STATION | PROPOSED PGL | EXISTING PGL | PROPOSED EDGE OF PAVEMENT (EAST) | PROPOSED EDGE OF PAVEMENT (WEST) |
|---------|--------------|--------------|----------------------------------|----------------------------------|
| 10+00   | 627.35       | 627.35       | 627.35                           | 627.35                           |
| 10+32   | 627.60       | 627.60       | 627.60                           | 627.60                           |
| 10+63   | 627.54       | 627.54       | 627.54                           | 627.54                           |
| 10+87   | 627.27       | 627.27       | 627.27                           | 627.27                           |
| 10+97   | 627.35       | 627.35       | 627.35                           | 627.35                           |
| 11+50   | 626.80       | 626.80       | 626.80                           | 626.80                           |
| 12+00   | 626.60       | 626.60       | 626.60                           | 626.60                           |
| 12+25   | 626.50       | 626.50       | 626.50                           | 626.50                           |
| 12+45   | 626.40       | 626.40       | 626.40                           | 626.40                           |
| 13+00   | 626.73       | 626.73       | 626.73                           | 626.73                           |
| 13+50   | 627.03       | 627.03       | 627.03                           | 627.03                           |
| 14+00   | 627.24       | 627.24       | 627.24                           | 627.24                           |
| 14+50   | 627.45       | 627.45       | 627.45                           | 627.45                           |

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 5933 Riverwood Road  
 Westchester, Illinois 60154-2780  
 Phone: 708/665-0390  
 Fax: 708/665-1213

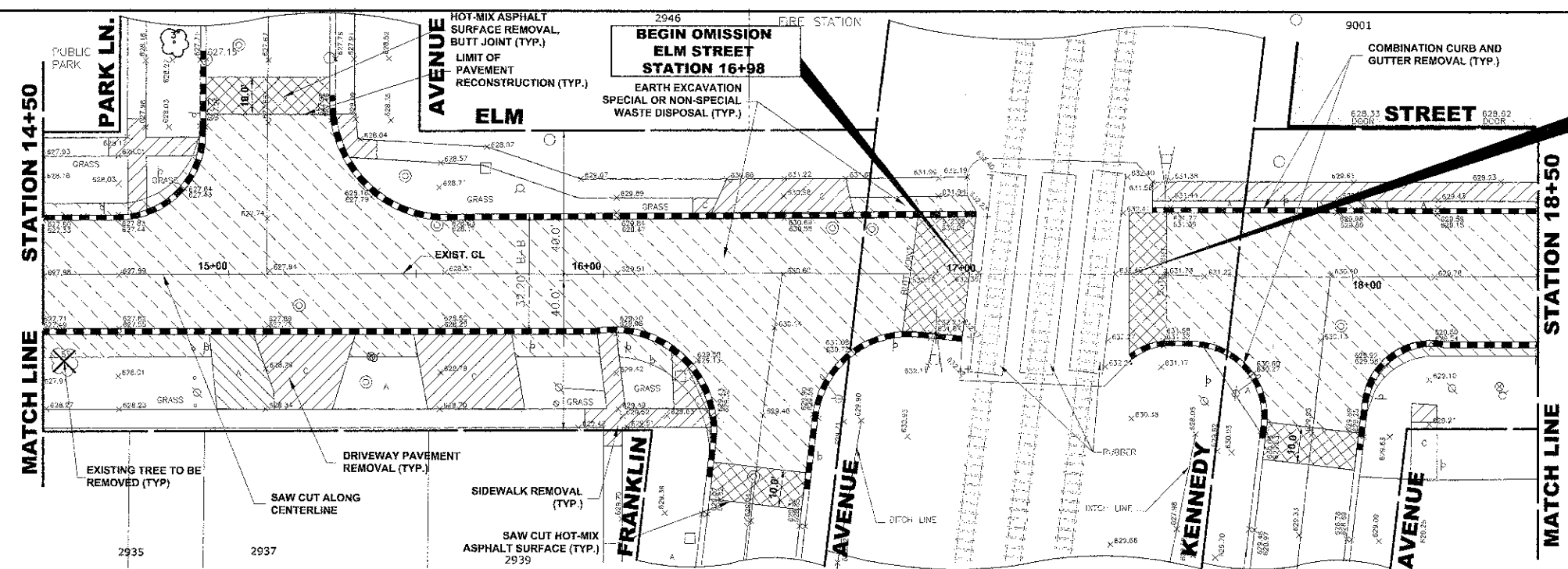
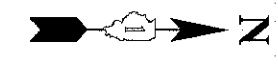
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| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

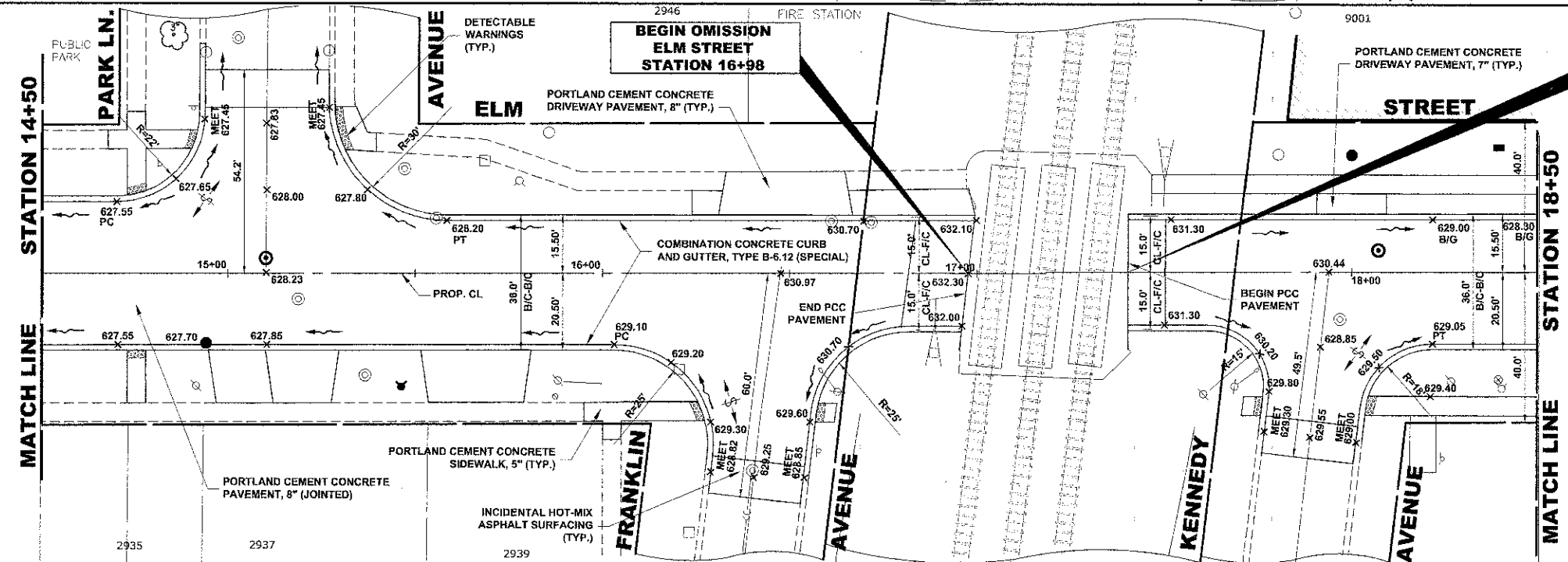
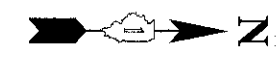
**ELM STREET**  
**PAVING PLAN AND PROFILE**  
 SCALE: 1"=20' H, 4"V  
 SHEET NO. 3 OF 7 SHEETS  
 STA. - TO STA. -

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1250  | 12-00097-00-PV | COOK               | 58           | 11        |
| FIELD BOOK NO. : X                                |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT |                |                    |              |           |

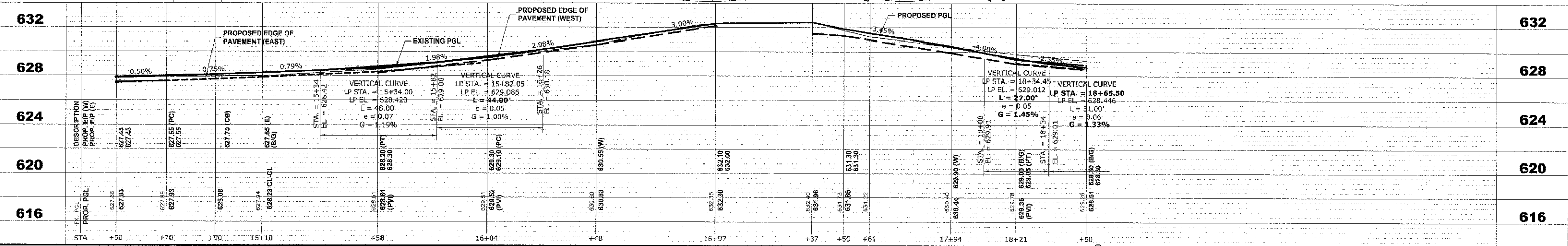
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**EXISTING TOPOGRAPHY**



**PROPOSED IMPROVEMENT**



**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911

9933 Roosevelt Road  
 Waukegan, Illinois 60087-3786  
 Phone: 708/865-8300  
 Fax: 708/865-1312

|            |              |           |
|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ELM STREET  
 PAVING PLAN AND PROFILE**

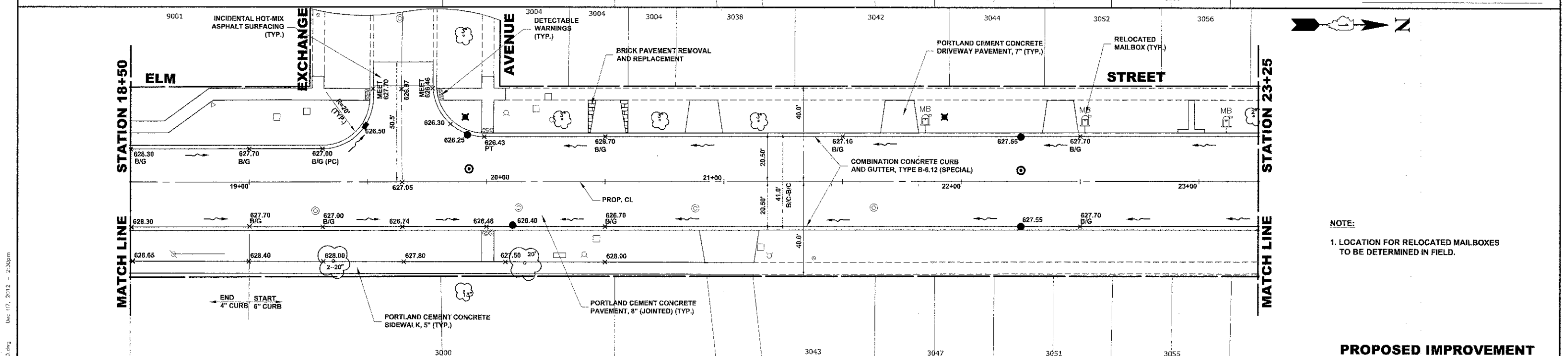
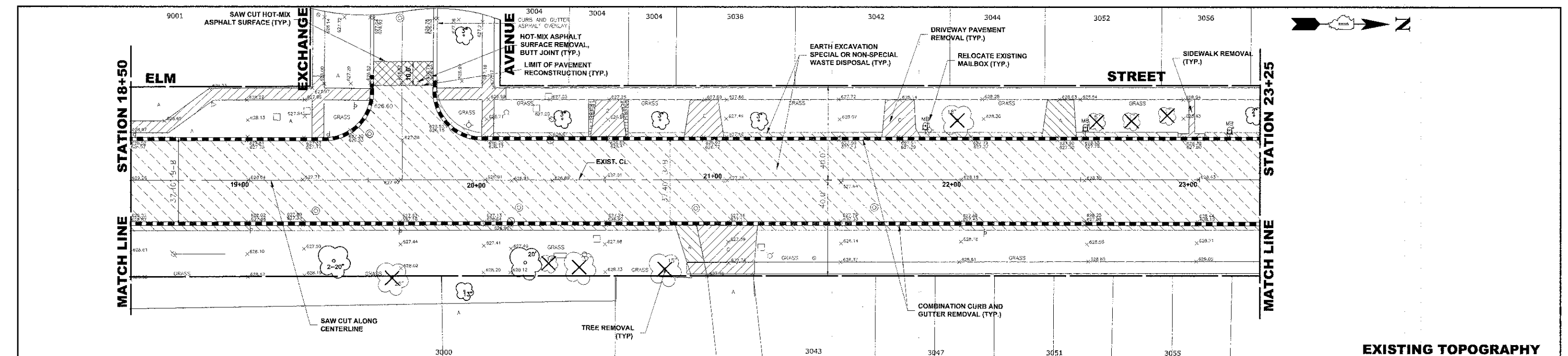
SCALE: 1"=20' H./4'V

SHEET NO. 4 OF 7 SHEETS

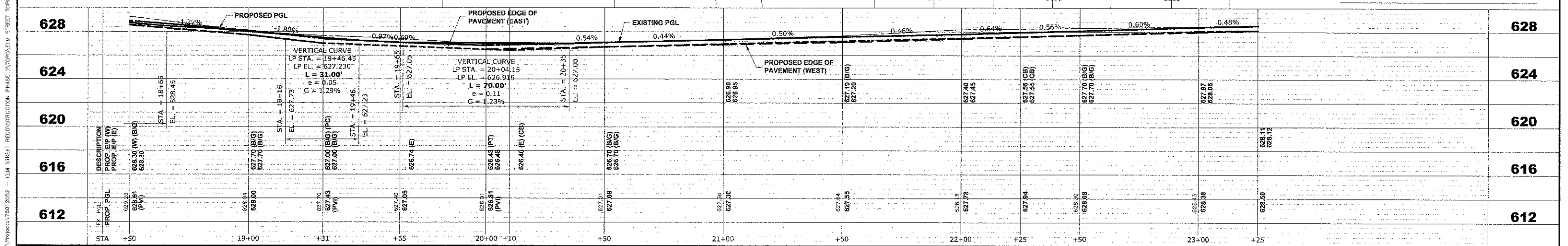
STA. - TO STA. -

|                       |                |                    |              |           |
|-----------------------|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK               | 56           | 12        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           |              |           |
|                       |                | FED. AID PROJECT   |              |           |

Drawings file: W:\Projects\76012053 - ELM STREET RECONSTRUCTION PHASE (AVENUE) (ELM STREET) (0909.dwg) Dec 07, 2012 2:30pm



NOTE:  
1. LOCATION FOR RELOCATED MAILBOXES TO BE DETERMINED IN FIELD.



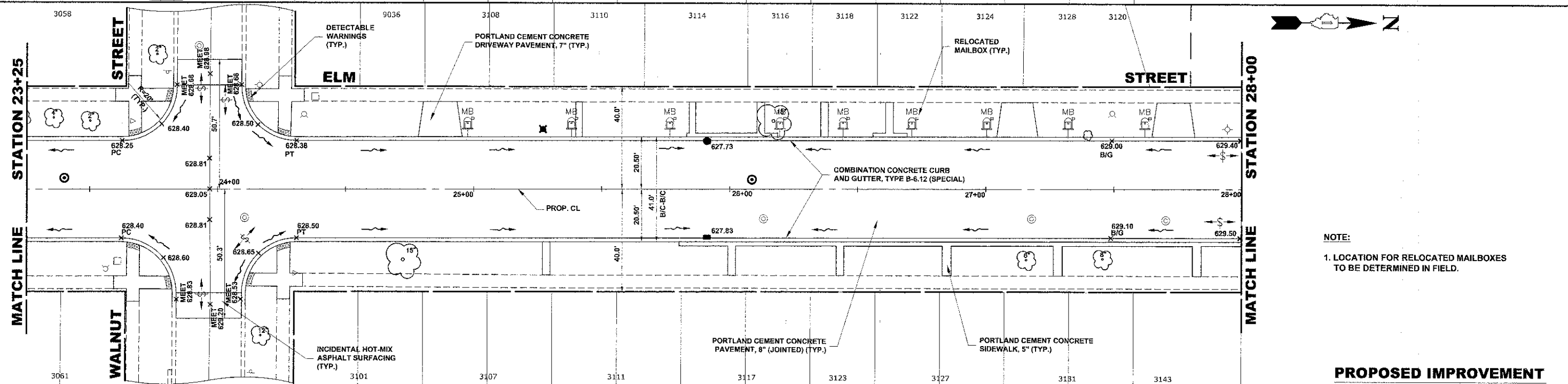
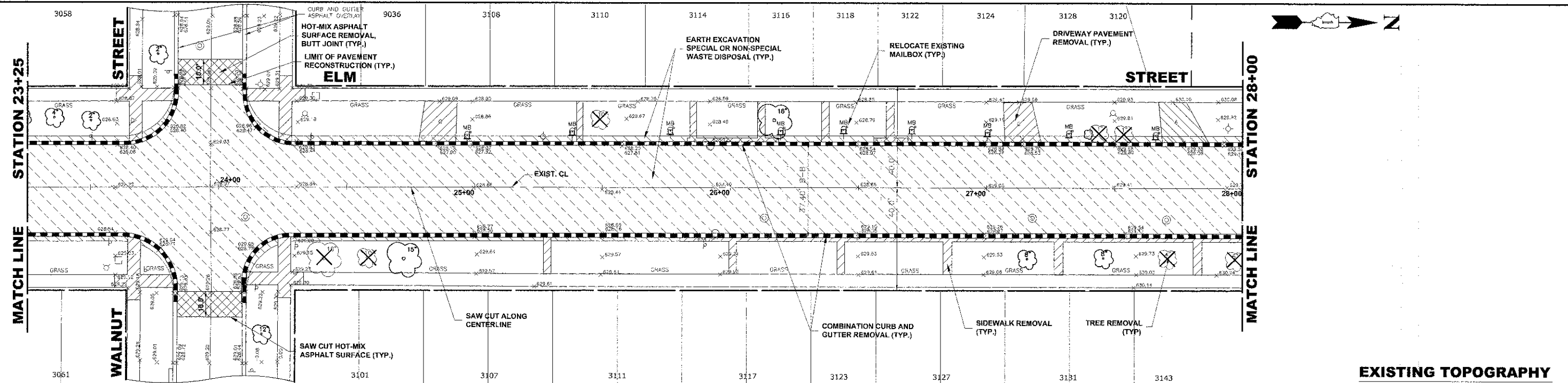
|   |                      |           |   |   |                         |                  |                        |                    |                    |   |  |
|---|----------------------|-----------|---|---|-------------------------|------------------|------------------------|--------------------|--------------------|---|--|
| <p>Civil Engineers<br/>Municipal Consultants<br/>Established 1911</p> <p>9013 Roosevelt Road<br/>Westchester, Illinois 60154-2780<br/>Phone: 708/965-0300<br/>Fax: 708/965-1212</p> | DESIGNED - CB/SBC    | REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>ELM STREET</b><br><b>PAVING PLAN AND PROFILE</b> |                         | F.A.I. RTE. 1260 | SECTION 12-00097-00-PV | COUNTY COOK        | TOTAL SHEETS 56    | SHEET NO. 13                                    |  |
|   | DRAWN - ECW, MK, DMM | REVISED - |   | SCALE: 1"=20' H, 4"V                                | SHEET NO. 5 OF 7 SHEETS | STA. -           | TO STA. -              | FIELD BOOK NO. : X | CONTRACT NO. 63771 | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |  |
|   | CHECKED - MDL        | REVISED - |   |   |                         |                  |                        |                    |                    |   |  |
|   | DATE - 12-7-12       | REVISED - |   |   |                         |                  |                        |                    |                    |   |  |

Drawing file: W:\Projects\76012052 - ILM STREET RECONSTRUCTION PHASE 1\TOP\ELM STREET TPO.DWG Dec 07, 2012 - 2:30pm

E.H.E. PROJECT NO. 760-12-05201



Drawing file: \\Projects\17012022 - ELM STREET RECONSTRUCTION PHASE 1\TOP\ELM STREET TOP.dwg Date: 01/20/2022 - 2:30pm



| STATION | PROPOSED PGL  | EXISTING PGL               | PROPOSED EDGE OF PAVEMENT (WEST)  | PROPOSED EDGE OF PAVEMENT (EAST) |
|---------|---|----------------------------|---|----------------------------------|
| 628     | 0.55%   | 1.00%                      | -0.71%  | 0.37%                            |
| 624     | VERTICAL CURVE<br>HP STA. = 24+02.85<br>LP STA. = 23+63<br>HP EL. = 628.91<br>LP EL. = 628.71<br>L = 68.00'<br>e = 0.14<br>G = -1.71% |                            | VERTICAL CURVE<br>LP STA. = 25+79.50<br>HP STA. = 26+30<br>LP EL. = 628.270<br>HP EL. = 628.47<br>L = 75.00'<br>e = 0.11<br>G = 1.20% |                                  |
| 620     | 628.11<br>628.12  | 628.23 (PC)<br>628.41 (PC) | 628.33 (PT)<br>628.50 (PT)  | 628.30<br>628.40                 |
| 616     | 628.12<br>628.17  | 628.17<br>628.71           | 628.10<br>628.20  | 628.10<br>628.20                 |
| 612     | 628.20<br>628.24  | 628.17<br>628.71           | 628.10<br>628.20  | 628.10<br>628.20                 |

NOTE:  
1. LOCATION FOR RELOCATED MAILBOXES TO BE DETERMINED IN FIELD.

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Roosevelt Road  
 Worcester, Illinois 6154-2780  
 Phone: 708/665-6300  
 Fax: 708/665-1312

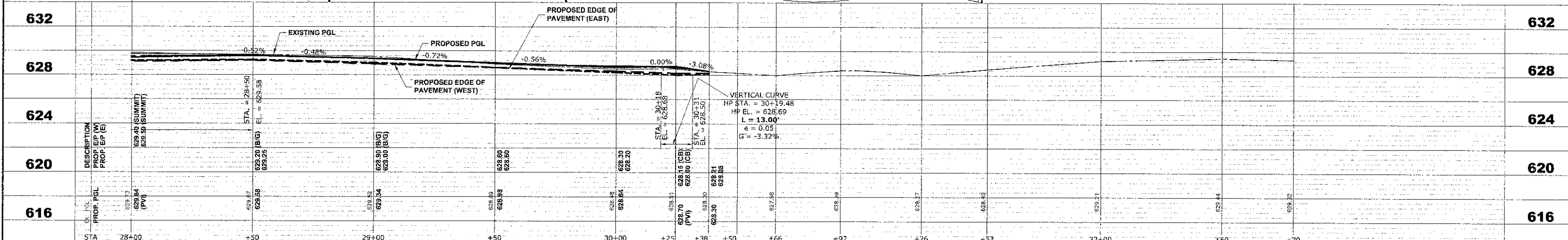
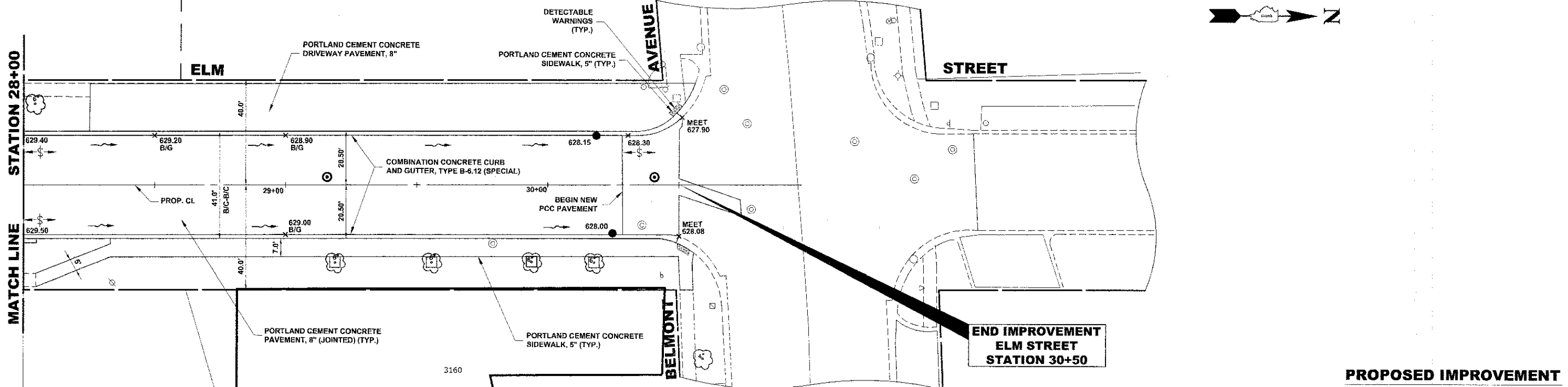
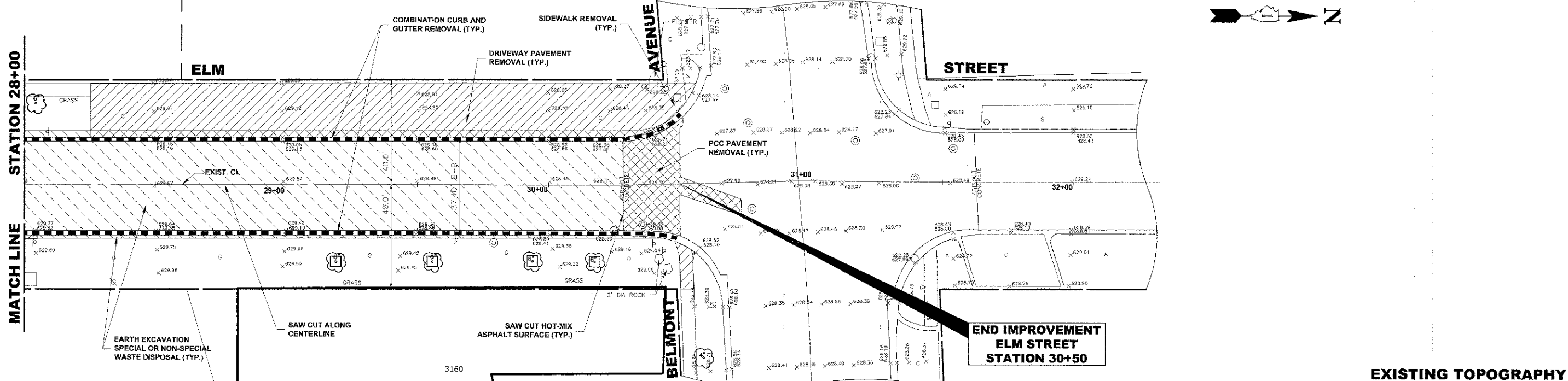
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| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELM STREET  
PAVING PLAN AND PROFILE**

SCALE: 1"=20' H, 4'V | SHEET NO. 6 OF 7 SHEETS | STA. - TO STA. -

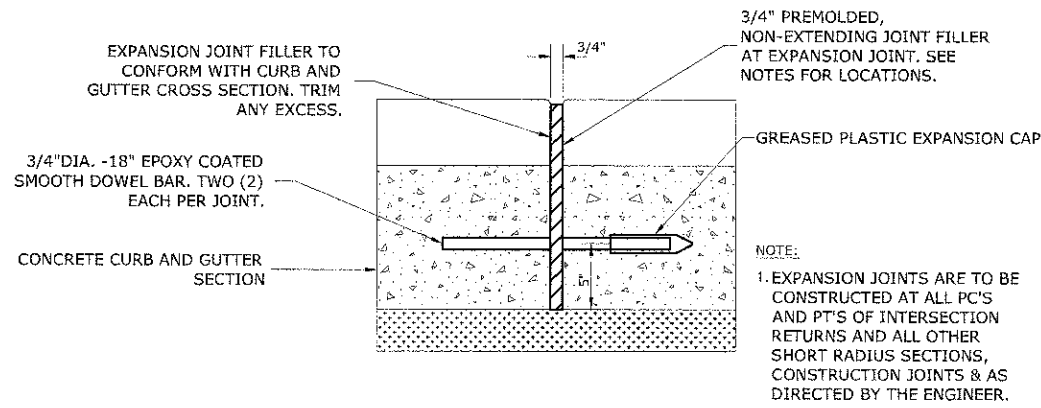
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| F.A.U. RTE.   | SECTION        | COUNTY             | TOTAL SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56 14           |
| FIELD BOOK NO. : X                                  |                | CONTRACT NO. 63771 |                 |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |                    |                 |



|  |   |   |  |  |   |   |  |
|--|---|---|--|--|---|---|--|
|  | Civil Engineers<br>Municipal Consultants<br>Established 1911    | 9933 Roswell Road<br>Westchester, Illinois 60154-3780<br>Phone: 708/965-0386<br>Fax: 708/965-1212 | DESIGNED - CB/SBC<br>DRAWN - ECW, MK, DMM<br>CHECKED - MDL<br>DATE - 12-7-12 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED -   | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>ELM STREET</b><br><b>PAVING PLAN AND PROFILE</b> | F.A.U. RTE. 1280<br>SECTION 12-00097-00-PV<br>COUNTY COOK<br>TOTAL SHEET NO. 58<br>SHEETS 15 |
|  | SCALE: 1"=20' H./4'V<br>SHEET NO. 7 OF 7 SHEETS<br>STA. TO STA. |   |  | FIELD BOOK NO. : X<br>CONTRACT NO. 63771<br>FED. ROAD DIST. NO. 1, ILLINOIS FED. AID PROJECT |   |   |  |

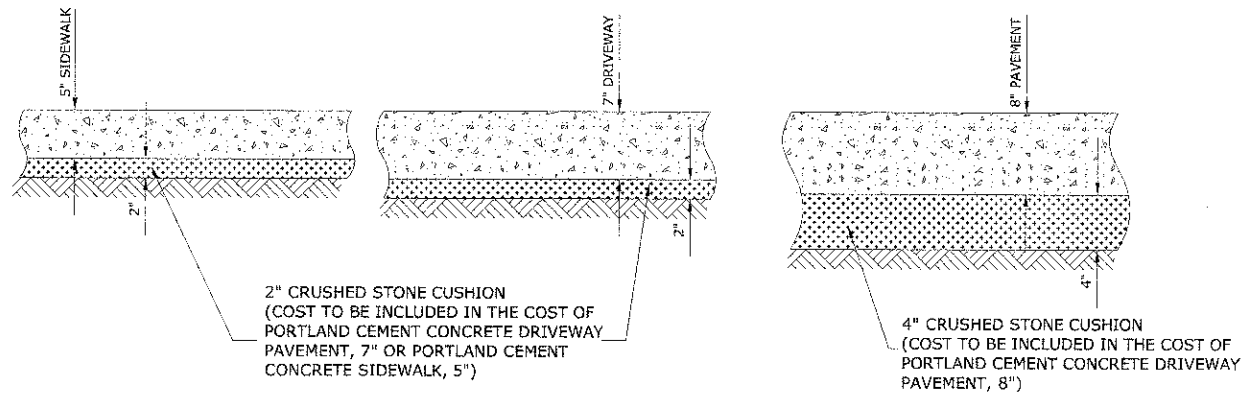
Drawing file: W:\Projects\76012062 - ELM STREET RECONSTRUCTION PHASE 1\TOPO\ELM STREET TOPO.dwg  
 Dec 07, 2012 - 2:30pm



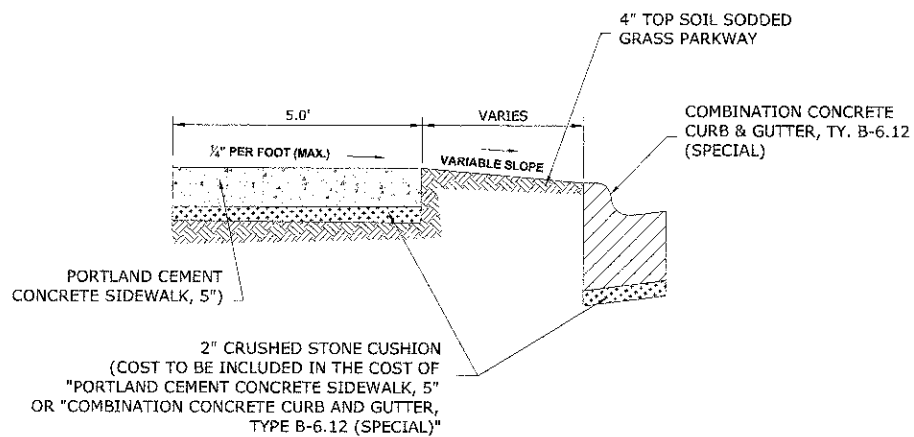


**TYPICAL CURB AND GUTTER EXPANSION JOINT**

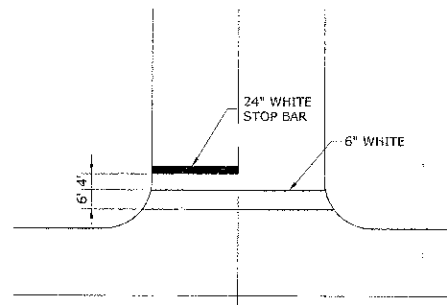
NOTE:  
1. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL PC'S AND PT'S OF INTERSECTION RETURNS AND ALL OTHER SHORT RADIUS SECTIONS, CONSTRUCTION JOINTS & AS DIRECTED BY THE ENGINEER.



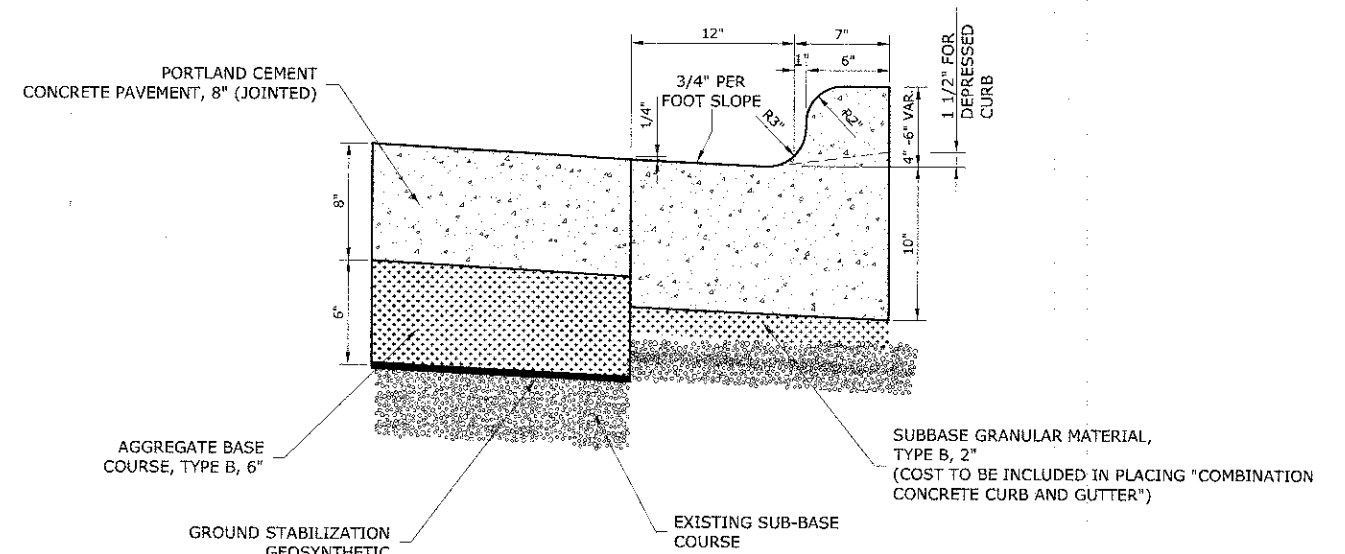
**TYPICAL P.C.C. SIDEWALK, DRIVEWAY & ALLEY DETAIL**



**PROPOSED P.C.C. SIDEWALK AND GRASS PARKWAY DETAIL**



**TYPICAL CROSSWALK & STOP BAR DETAIL**



**COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12**

**GENERAL NOTES**

**DEPRESSED CURBS** - THE TOP OF CURBS SHALL BE DEPRESSED WHERE THE CURB AND GUTTER IS CONSTRUCTED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS AT ALLEY RETURNS AND STREET INTERSECTIONS, AND FOR PRIVATE AND COMMERCIAL DRIVES AND AS DIRECTED BY THE ENGINEER

**DRAINAGE OPENINGS** - AT ALL LOCATIONS WHERE CASTINGS ARE TO BE INCORPORATED IN THE CURB AND GUTTER, A 3/4\"/>

**DETECTABLE WARNINGS** - DETECTABLE WARNINGS SHALL BE INSTALLED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS, AT ALLEY RETURNS, AND STREET INTERSECTIONS. THESE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE IDOT STANDARDS.

**SLIPFORM CONSTRUCTION** - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4\"/>

**DEPRESSED CURB HEIGHT** - THE HEIGHT OF THE DEPRESSED CURB SHALL BE 1-1/2\"/>

**BITUMINOUS EXPANSION JOINTS** - THREE QUARTER INCH (3/4\"/>

ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4\"/>

THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.

THE EDWIN HANCOCK ENGINEERING COMPANY AND THE VILLAGE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.

Drawing file: \\N:\Project\76012032 - ELLI STREET RECONSTRUCTION PHASE A\16-17\_Roadway-Details.dwg Dec 07, 2017 2:27pm



◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

9933 Woodville Road  
Westchester, Illinois 60154-2786  
Phone: 708/965-6369  
Fax: 708/965-1312

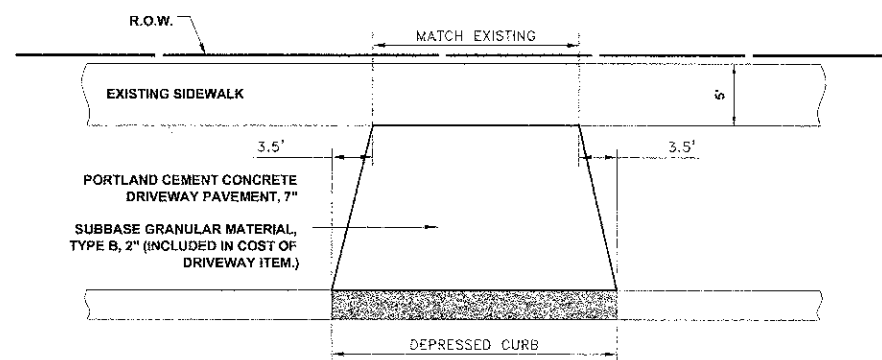
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|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

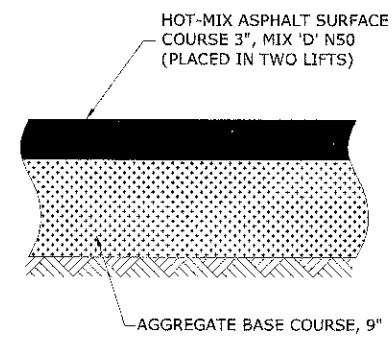
**ROADWAY DETAILS**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

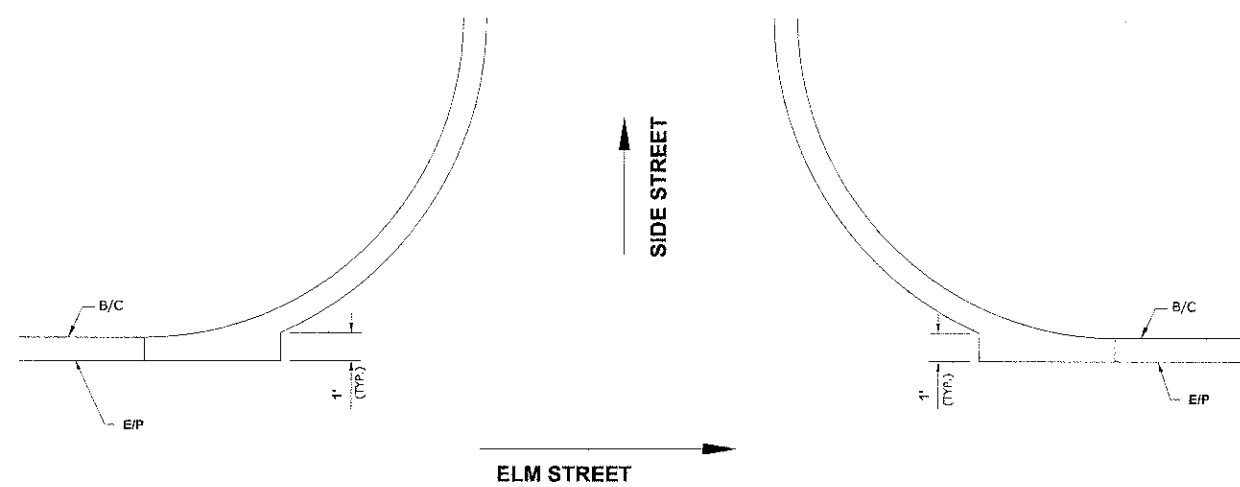
|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1280  | 12-00097-00-PV | COOK               | 56           | 16        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |



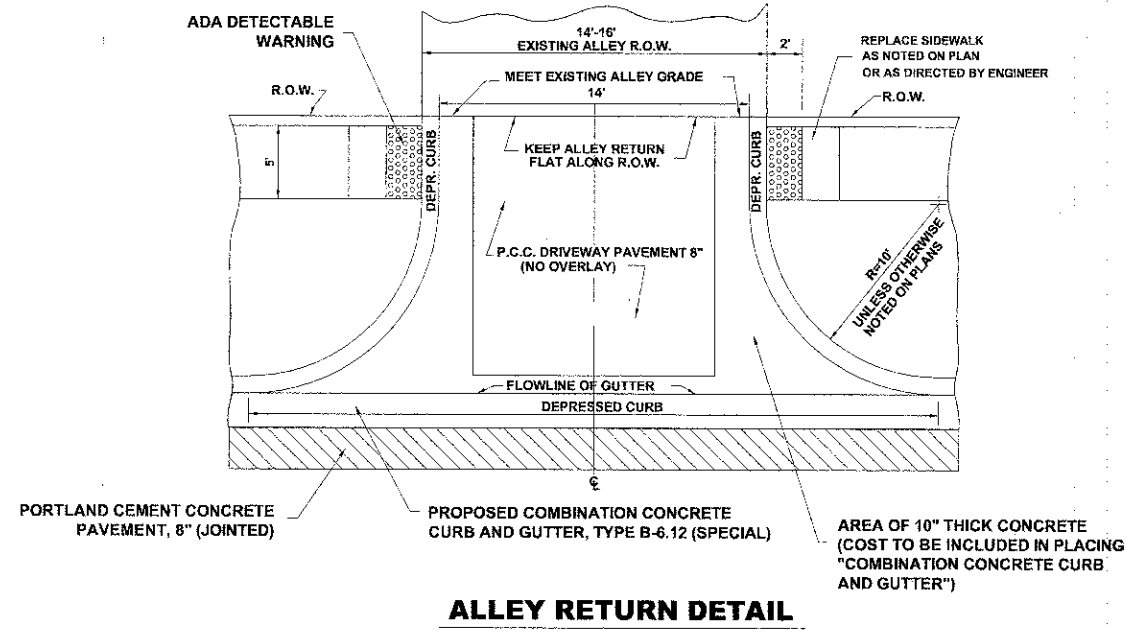
**DRIVEWAY DETAIL**



**INCIDENTAL HOT-MIX ASPHALT SURFACING  
(TYPICAL ASPHALT PARKING)**



**TYPICAL 1' STRAIGHT EXTENSION  
AT INTERSECTIONS**



**ALLEY RETURN DETAIL**

Drawing file: w:\Projects\76012032 - ELM STREET RECONSTRUCTION, PHASE 1A\16-17\_Roadway-Details.dwg Dec 07, 2012 2:37:05



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911  
 9913 Roosevelt Road  
 Waukegan, Illinois 60154-2700  
 Phone: 708/865-8340  
 Fax: 708/865-1111

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS**

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56           | 17        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

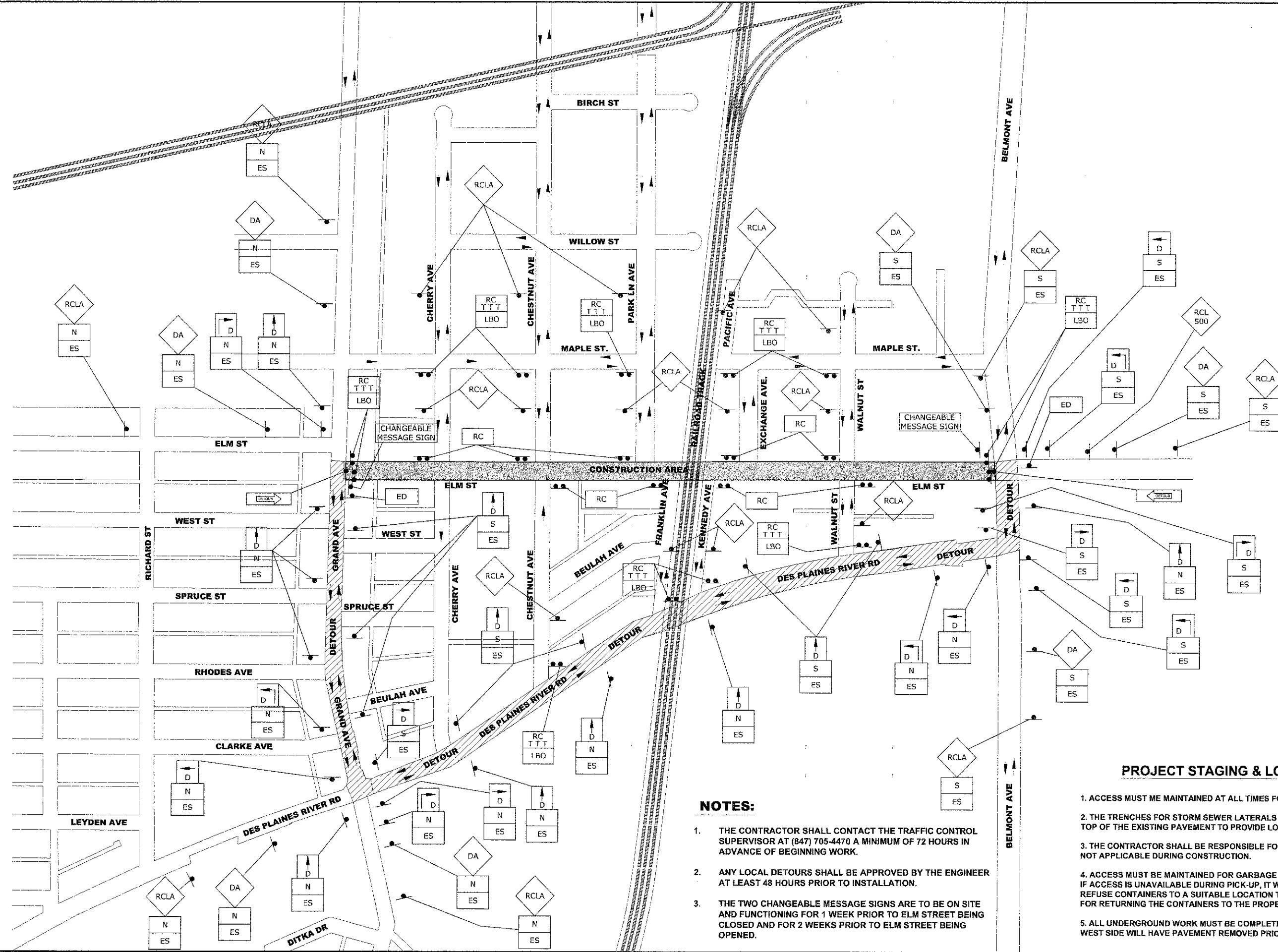
E.H.E. PROJECT NO. 760-12-06201

Drawing File: W:\Projects\26612452 - E.P. STREET RECONSTRUCTION PHASE II\18-71\_Maintenance of Traffic.dwg Hdr: 06, 2013 - 10:39am

| LEGEND OF SYMBOLS |             |                   |        |             |   |
|-------------------|-------------|-------------------|--------|-------------|---|
| SYMBOL            | DESCRIPTION | CODE & SIZE       | SYMBOL | DESCRIPTION | CODE & SIZE   |
|                   |             | W20-3<br>48"x48"  |        |             | M4-8a<br>24"x18"  |
|                   |             | W20-2<br>48"x48"  |        |             | CUSTOM<br>36"x24"<br>5" WHITE LETTERS<br>ON BLUE BACKGROUND |
|                   |             | W20-3<br>48"x48"  |        |             | M4-9<br>30"x24"   |
|                   | *           | R11-2<br>48"x30"  |        |             | M4-9<br>30"x24"   |
|                   | *           | R11-4<br>60"x30"  |        |             | M4-9<br>30"x24"   |
|                   |             | M3-1<br>24"x12"   |        |             | M4-9R<br>24"x30"  |
|                   |             | M3-3<br>24"x12"   |        |             | M4-9L<br>24"x30"  |
|                   | *           | M4-10L<br>48"x18" |        |             |   |
|                   | *           | M4-10R<br>48"x18" |        |             |   |
|                   |             | CUSTOM<br>24"x12" |        |             |   |

**NOTE:**  
\* MOUNTED ABOVE TYPE III BARRICADE.

**NOTE:**  
CONTRACTOR MUST NOTIFY IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (842)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.



**NOTES:**

1. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
2. ANY LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
3. THE TWO CHANGEABLE MESSAGE SIGNS ARE TO BE ON SITE AND FUNCTIONING FOR 1 WEEK PRIOR TO ELM STREET BEING CLOSED AND FOR 2 WEEKS PRIOR TO ELM STREET BEING OPENED.

**PROJECT STAGING & LOCAL ACCESS**

1. ACCESS MUST BE MAINTAINED AT ALL TIMES FOR EMERGENCY VEHICLES.
2. THE TRENCHES FOR STORM SEWER LATERALS ON EAST HALF OF ROAD SHALL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE LOCAL ACCESS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BAGGING ALL REGULATORY SIGNS THAT ARE NOT APPLICABLE DURING CONSTRUCTION.
4. ACCESS MUST BE MAINTAINED FOR GARBAGE COLLECTION FOR THE DURATION OF THIS PROJECT. IF ACCESS IS UNAVAILABLE DURING PICK-UP, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE REFUSE CONTAINERS TO A SUITABLE LOCATION TO BE PICKED UP. THE CONTRACTOR WILL BE RESPONSIBLE FOR RETURNING THE CONTAINERS TO THE PROPER LOCATION AFTER COLLECTION.
5. ALL UNDERGROUND WORK MUST BE COMPLETED PRIOR TO REMOVING PAVEMENT ON EAST SIDE. THE WEST SIDE WILL HAVE PAVEMENT REMOVED PRIOR TO INSTALLATION OF STORM SEWERS.

Drawing file: W:\Projects\70072007 - ELM ST(RED) RECONSTRUCTION P-AGE (A18-21)\_Maintenance of Traffic.dwg Dec 07, 2012 - 2:42pm



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

9923 Rosemead Blvd  
 Westchester, Illinois 60154-2780  
 Phone: 708/965-4060  
 Fax: 708/965-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC**  
**DETOUR FOR THROUGH TRAFFIC SIGNING PLAN**

SCALE: NOT TO SCALE    SHEET NO. 2 OF 4 SHEETS    STA. -    TO STA. -

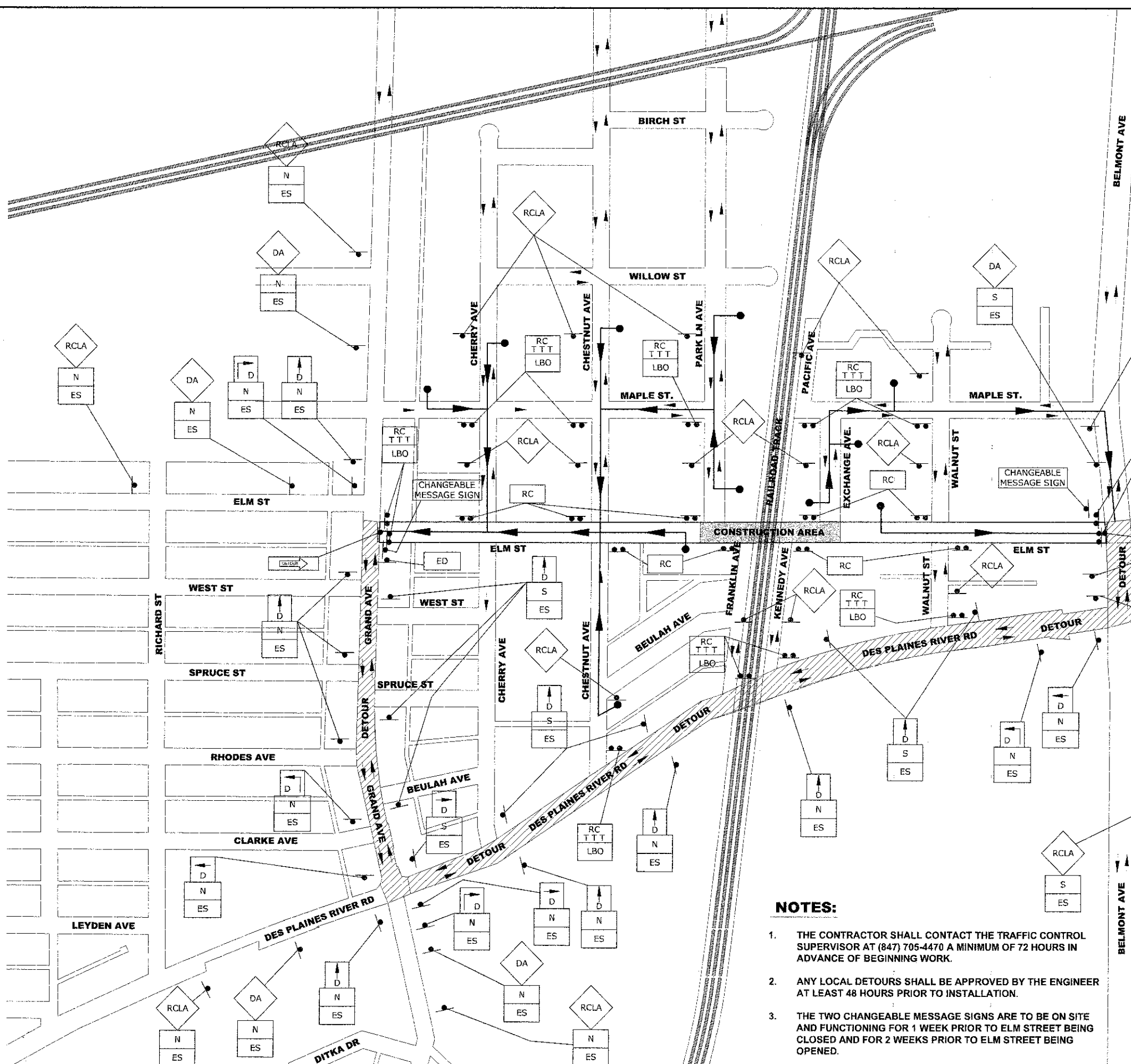
|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.   | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1280  | 12-00097-00-PV | COOK               | 56           | 19        |
| FIELD BOOK NO. : X                                  |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |                    |              |           |

**STAGE I CONSTRUCTION**

(STA. 14+70 TO STA. 20+15)

THIS STAGE WILL CONSIST OF THE FOLLOWING:

1. PROPOSED STORM SEWER CONNECTION TO EXISTING 120" STORM SEWER AT FRANKLIN AVE.
2. COMPLETION OF ALL OTHER DRAINAGE AND UTILITY WORK WITHIN THIS AREA, INCLUDING THE TEMPORARY TIE IN OF THE SEWER AT EXCHANGE, WHICH SHALL BE PAID FOR AS TEMPORARY DRAINAGE CONNECTION
3. ROADWAY RECONSTRUCTION.
4. COMPLETION OF ANY IMPROVEMENTS PLANNED BY RAILROAD.



**PROJECT STAGING & LOCAL ACCESS**

1. ACCESS MUST BE MAINTAINED AT ALL TIMES FOR EMERGENCY VEHICLES.
2. THE TRENCHES FOR STORM SEWER LATERALS ON EAST HALF OF ROAD SHALL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE LOCAL ACCESS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BAGGING ALL REGULATORY SIGNS THAT ARE NOT APPLICABLE DURING CONSTRUCTION.
4. ACCESS MUST BE MAINTAINED FOR GARBAGE COLLECTION FOR THE DURATION OF THIS PROJECT. IF ACCESS IS UNAVAILABLE DURING PICK-UP, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE REFUSE CONTAINERS TO A SUITABLE LOCATION TO BE PICKED UP. THE CONTRACTOR WILL BE RESPONSIBLE FOR RETURNING THE CONTAINERS TO THE PROPER LOCATION AFTER COLLECTION.
5. ALL UNDERGROUND WORK MUST BE COMPLETED PRIOR TO REMOVING PAVEMENT ON EAST SIDE. THE WEST SIDE WILL HAVE PAVEMENT REMOVED PRIOR TO INSTALLATION OF STORM SEWERS.

**NOTES:**

1. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
2. ANY LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
3. THE TWO CHANGEABLE MESSAGE SIGNS ARE TO BE ON SITE AND FUNCTIONING FOR 1 WEEK PRIOR TO ELM STREET BEING CLOSED AND FOR 2 WEEKS PRIOR TO ELM STREET BEING OPENED.

Drawing file: W:\Projects\76012052\... ELM STREET RECONSTRUCTION PHASE II\18\_21\_Maintenance of Traffic.dwg Dec 07, 2012 - 2:42pm

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 3913 Roosevelt Road  
 Wheeling, Illinois 60154-4780  
 Phone: 708/965-0390  
 Fax: 708/965-4212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC DETOUR FOR THROUGH  
 TRAFFIC SIGNING PLAN  
 STAGE I**

SCALE: NOT TO SCALE SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 20        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63774        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

### STAGE II CONSTRUCTION

(STA. 1+88 TO STA. 14+70 AND  
STA. 20+15 TO STA. 30+50)

STAGE II WILL CONSIST OF THE FOLLOWING:

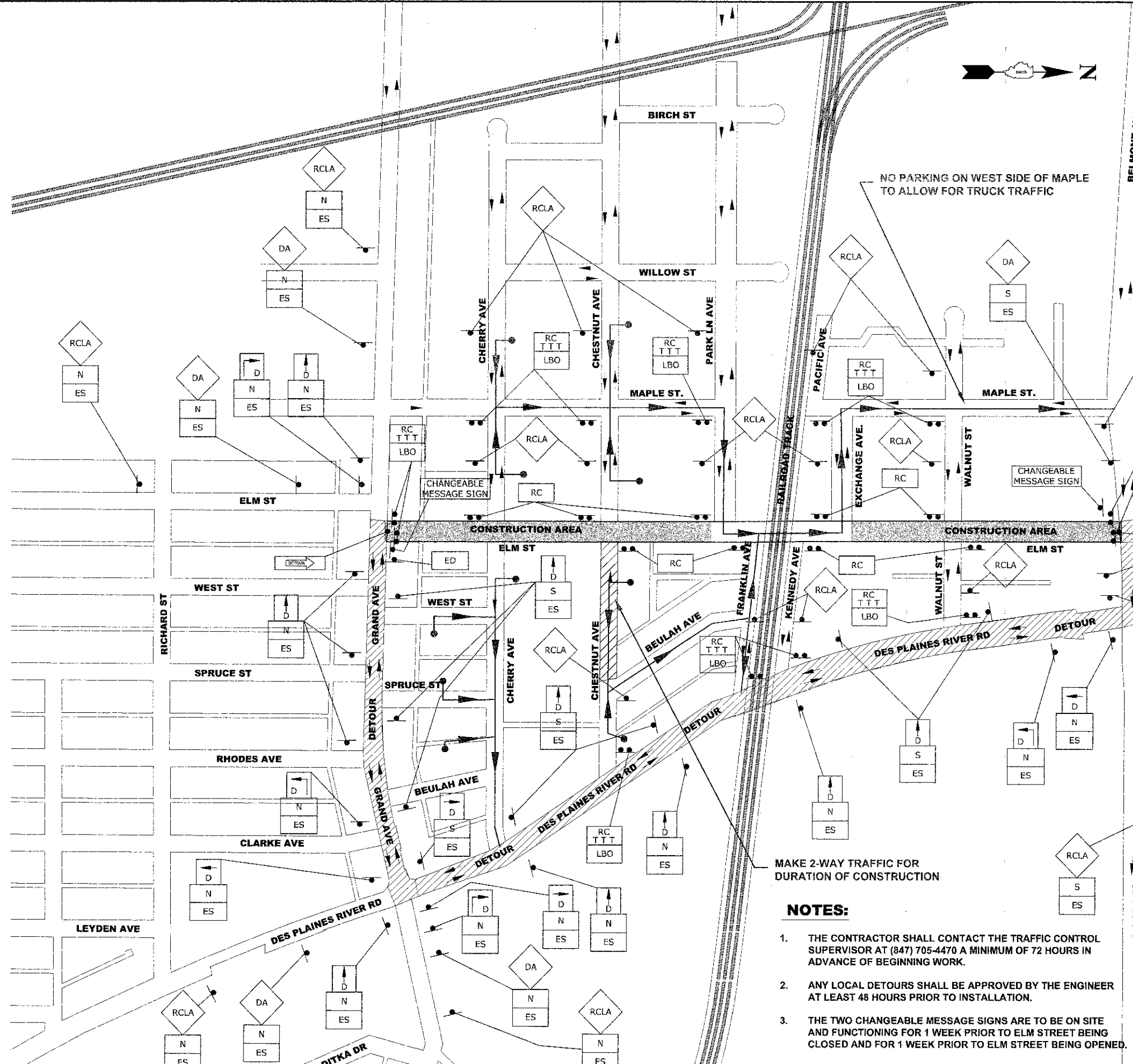
1. PROPOSED STORM SEWER CONNECTION TO EXISTING CHAMBER OF 144" DIAMETER SEWER UNDER BELMONT AVENUE.
2. COMPLETION OF ALL REMAINING DRAINAGE AND UTILITY WORK.
3. RECONSTRUCTION OF ROADWAY:

ACCESS TO ONE SIDE OF STREET IS TO BE MAINTAINED DURING CONSTRUCTION, AND AS SUCH, THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND RECONSTRUCT THE WEST PORTION OF THE STREET PRIOR TO REMOVING ANY PAVEMENT ON EAST SIDE. THE ROADWAY WILL BE SAW-CUT AND ONE HALF WILL BE EXCAVATED WHILE THE OTHER HALF REMAINS TO ALLOW TRAFFIC IN ONE DIRECTION.

WHILE THE EAST SIDE OF THE STREET IS UNDER CONSTRUCTION, VEHICLES WILL BE RESTRICTED TO ONE-WAY TRAVEL TO THE SOUTH ON THE EXISTING WEST HALF OF THE ROADWAY. DURING CONSTRUCTION OF WEST SIDE, TRAFFIC WILL BE ONE-WAY TO THE NORTH.

CONSTRUCTION VEHICLE TRAFFIC WILL BE KEPT TO A MINIMUM IN EXCAVATED PORTION OF ROADWAY.

LOCAL ACCESS WILL BE PROVIDED TO INTERSECTION AND BUSINESS WHENEVER POSSIBLE.



NO PARKING ON WEST SIDE OF MAPLE TO ALLOW FOR TRUCK TRAFFIC

CHANGEABLE MESSAGE SIGN

CHANGEABLE MESSAGE SIGN

CONSTRUCTION AREA

CONSTRUCTION AREA

MAKE 2-WAY TRAFFIC FOR DURATION OF CONSTRUCTION

#### NOTES:

1. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
2. ANY LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
3. THE TWO CHANGEABLE MESSAGE SIGNS ARE TO BE ON SITE AND FUNCTIONING FOR 1 WEEK PRIOR TO ELM STREET BEING CLOSED AND FOR 1 WEEK PRIOR TO ELM STREET BEING OPENED.

#### PROJECT STAGING & LOCAL ACCESS

1. ACCESS MUST BE MAINTAINED AT ALL TIMES FOR EMERGENCY VEHICLES.
2. THE TRENCHES FOR STORM SEWER LATERALS ON EAST HALF OF ROAD SHALL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE LOCAL ACCESS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BAGGING ALL REGULATORY SIGNS THAT ARE NOT APPLICABLE DURING CONSTRUCTION.
4. ACCESS MUST BE MAINTAINED FOR GARBAGE COLLECTION FOR THE DURATION OF THIS PROJECT. IF ACCESS IS UNAVAILABLE DURING PICK-UP, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE REFUSE CONTAINERS TO A SUITABLE LOCATION TO BE PICKED UP. THE CONTRACTOR WILL BE RESPONSIBLE FOR RETURNING THE CONTAINERS TO THE PROPER LOCATION AFTER COLLECTION.
5. ALL UNDERGROUND WORK MUST BE COMPLETED PRIOR TO REMOVING PAVEMENT ON EAST SIDE. THE WEST SIDE WILL HAVE PAVEMENT REMOVED PRIOR TO INSTALLATION OF STORM SEWERS.

Drawing file: W:\Projects\70012052 - ELM STREET RECONSTRUCTION\Drawings\18-21\_Maintenance of Traffic.dwg Date: 12-13-2012 10:10am



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911  
 9933 Rosemead Road  
 Wheeling, Illinois 60154-2780  
 Phone: 708.365.4380  
 Fax: 708.365.1213

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR FOR THROUGH  
TRAFFIC SIGNING PLAN  
STAGE II

SCALE: NOT TO SCALE SHEET NO. 4 OF 4 SHEETS STA. - TO STA. -

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.   | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 58           | 21        |
| FIELD BOOK NO. : X                                  |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |                    |              |           |

E.H.E. PROJECT NO. 760-12-05201

Drawing File: W:\Projects\76121052 - T14 STREET RECONSTRUCTION PHASE A\27-27\_Signs\_Constr.dwg  
 Mar 06, 2012 4:52pm

### JOB-SITE SIGNING CODES AND SIZES

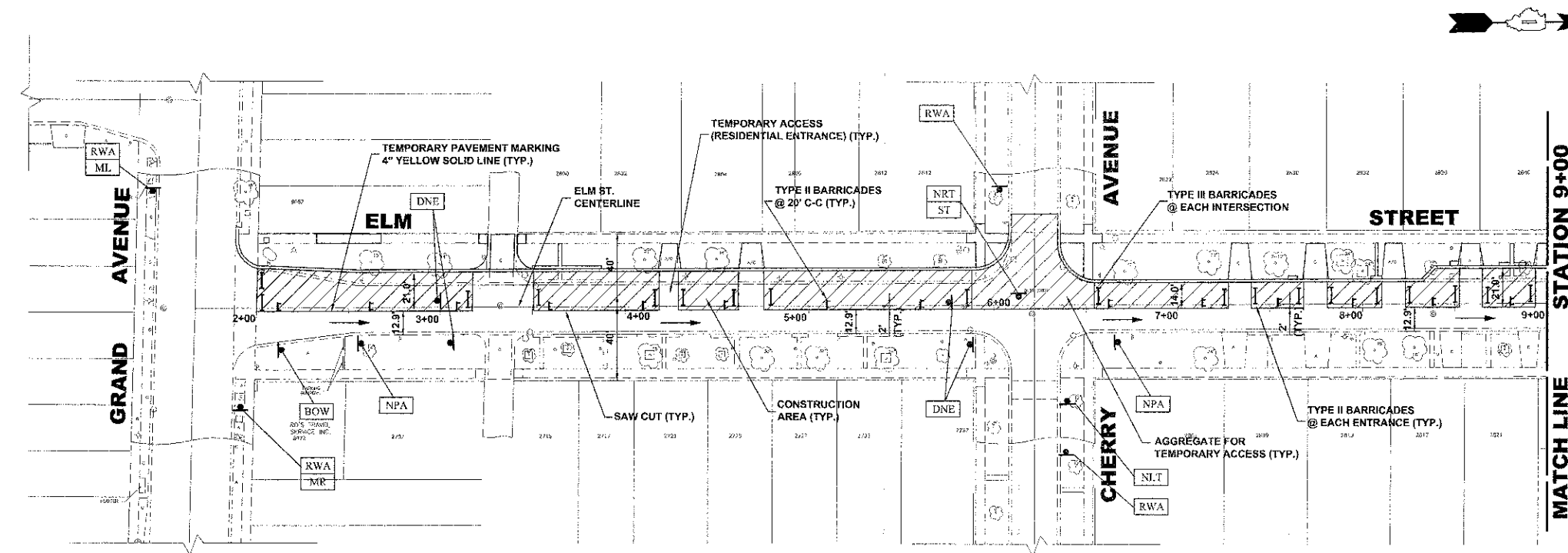
| SYMBOL | SIGN | CODE & SIZE      |
|--------|------|------------------|
| NLT    |      | R3-2<br>30"x30"  |
| NRT    |      | R3-2<br>30"x30"  |
| RTO    |      | R3-5<br>30"x 30" |
| LTO    |      | R3-5<br>30"x 36" |
| DNE    |      | R5-1<br>30"x30"  |
| NPAT   |      | R7-1<br>12"x18"  |
| ELM    |      | M4-8<br>36"x12"  |
| OW     |      | R6-1R<br>36"x12" |
| RWA    |      | W20-1<br>36"x36" |

### JOB-SITE SIGNING CODES AND SIZES

| SYMBOL | SIGN | CODE & SIZE      |
|--------|------|------------------|
| BOW    |      | R6-6<br>18"x24"  |
| EOW    |      | R6-7<br>18"x24"  |
| OW2    |      | R6-1L<br>36"x12" |
| RC     |      | R11-2<br>48"x30" |
| ST     |      | R1-1<br>30"x 30" |
| ML     |      | M6-1<br>21"x15"  |
| MR     |      | M6-1<br>21"x15"  |







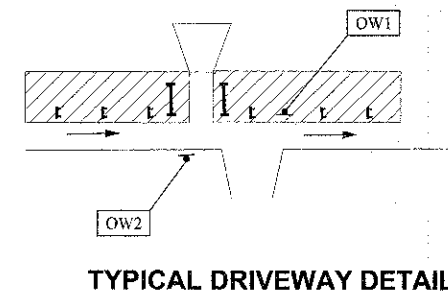
**STAGE 2a CONSTRUCTION**

**LEGEND**

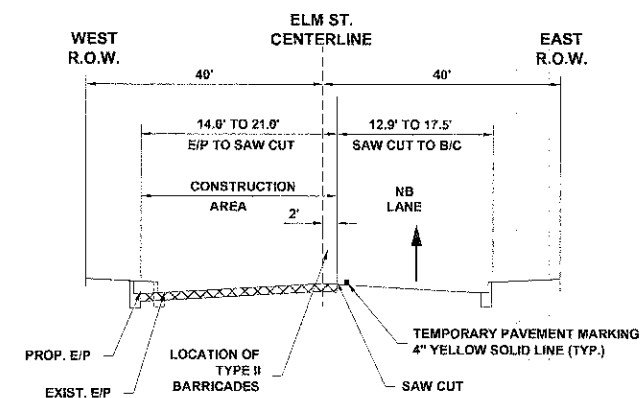
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG WEST SIDE OF ELM ST.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG WEST SIDE OF ELM ST.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS AGGREGATE FOR TEMPORARY ACCESS, EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.

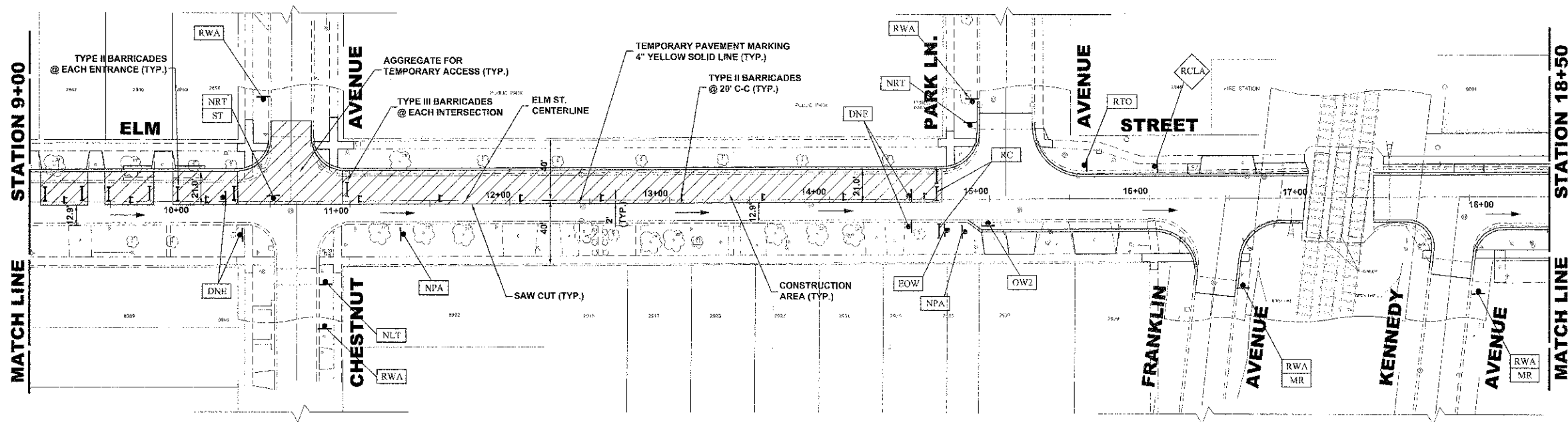
NOTE:  
ONE WAY (R6-1) SIGNS ARE REQUIRED  
IN FRONT OF ALL DRIVEWAYS AS SHOWN



**TYPICAL DRIVEWAY DETAIL**



**STAGE 2a CONSTRUCTION  
TYPICAL SECTION**



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

9953 Reynolds Road  
 Winchester, Illinois 61894-4789  
 Phone: 708.985.4300  
 Fax: 708.985.1212

DESIGNED - CB/SBC  
 DRAWN - ECW, MK, DMM  
 CHECKED - MDL  
 DATE - 12-7-12

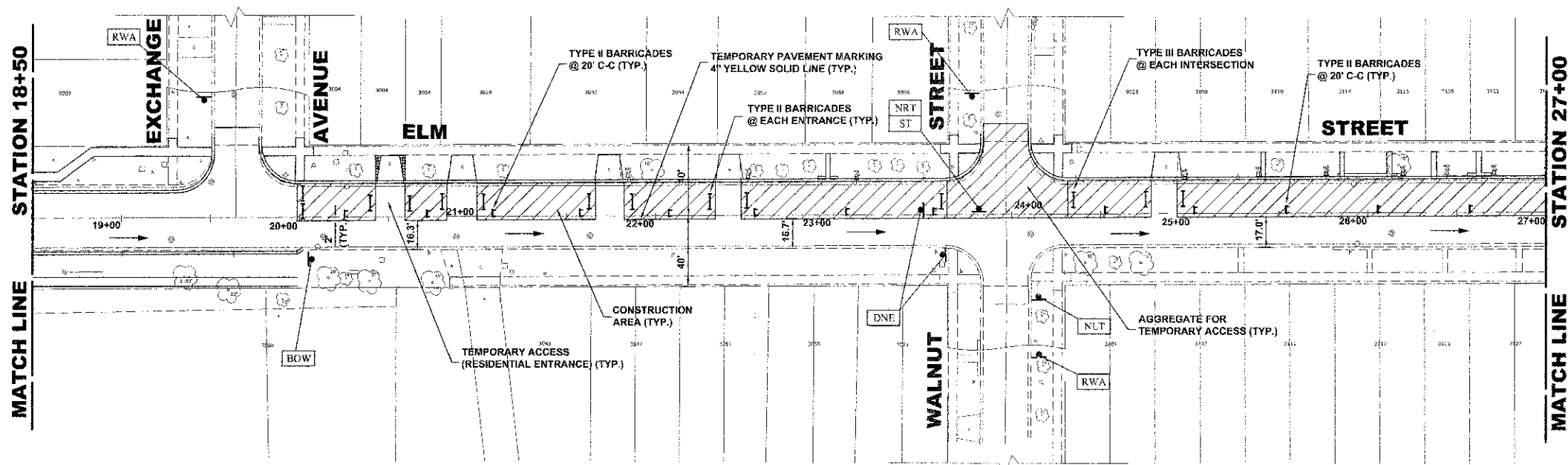
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
 STAGE 2a CONSTRUCTION**

SCALE: 1" = 40'    SHEET NO. 1 OF 2 SHEETS    STA. 1+00    TO STA. 18+50

| F.A.J. RTE.   | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 1260  | 12-09097-00-PV | COOK               | 56           | 24        |
| FIELD BOOK NO. : X                                    |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1    ILLINOIS    FED. AID PROJECT |                |                    |              |           |

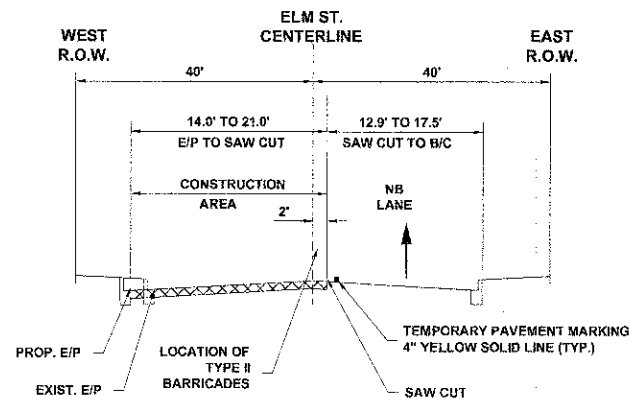
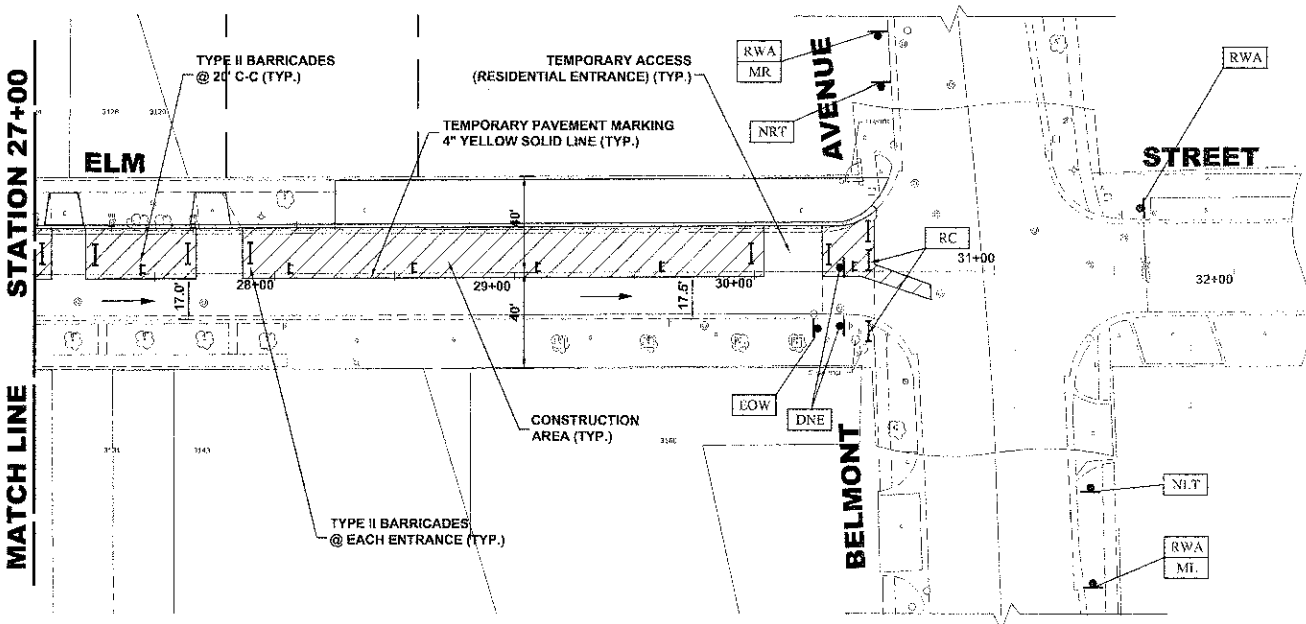


**STAGE 2a CONSTRUCTION**

**LEGEND**

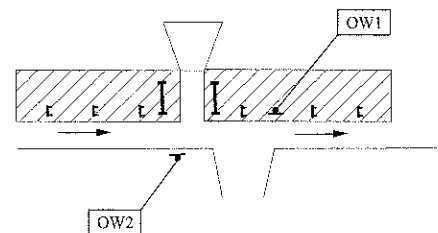
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG WEST SIDE OF ELM ST.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG WEST SIDE OF ELM ST.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS AGGREGATE FOR TEMPORARY ACCESS, EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



**STAGE 2a CONSTRUCTION TYPICAL SECTION**

NOTE:  
ONE WAY (R6-1) SIGNS ARE REQUIRED IN FRONT OF ALL DRIVEWAYS AS SHOWN



**TYPICAL DRIVEWAY DETAIL**



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

DESIGNED - CB/SBC  
 DRAWN - ECW, MK, DMM  
 CHECKED - MDL  
 DATE - 12-7-12

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN**  
**STAGE 2a CONSTRUCTION**

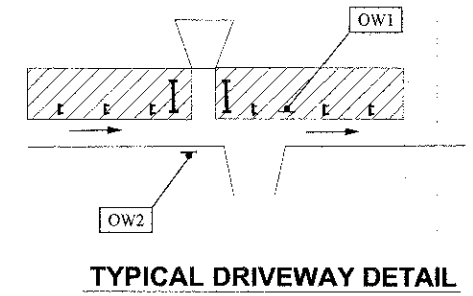
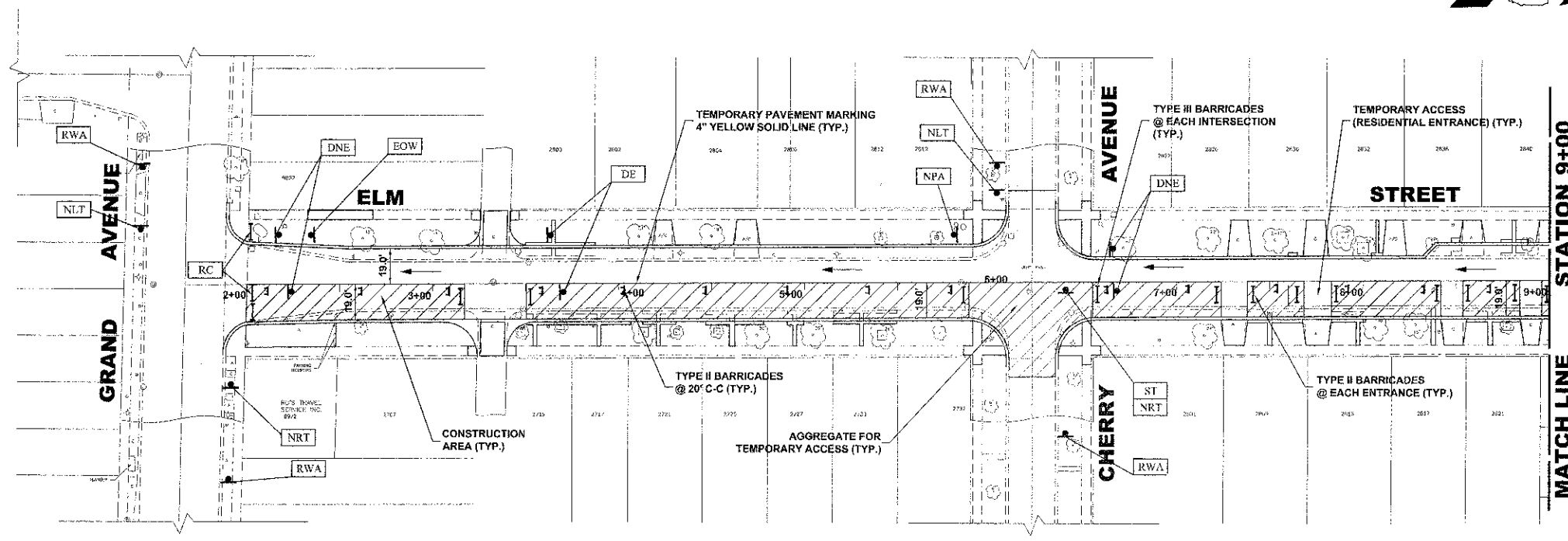
SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA. 18+50 TO STA. 32+00

| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|---------------------------|--------------|-----------|
| 1260                  | 12-00997-00-PV | COOK                      | 56           | 25        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

Drawing File: W:\Projects\76612652 - ELM STREET RECONSTRUCTION PHASE 1\27-27\_Surge\_Construction Mar 05, 2013 4:56pm



NOTE:  
ONE WAY (R6-1) SIGNS ARE REQUIRED  
IN FRONT OF ALL DRIVEWAYS AS SHOWN



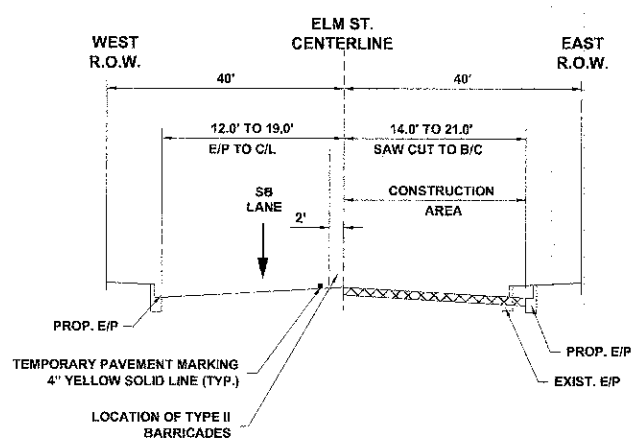
**STAGE 2b CONSTRUCTION**

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG EAST SIDE OF ELM ST.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG EAST SIDE OF ELM ST.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS AGGREGATE FOR TEMPORARY ACCESS, EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.

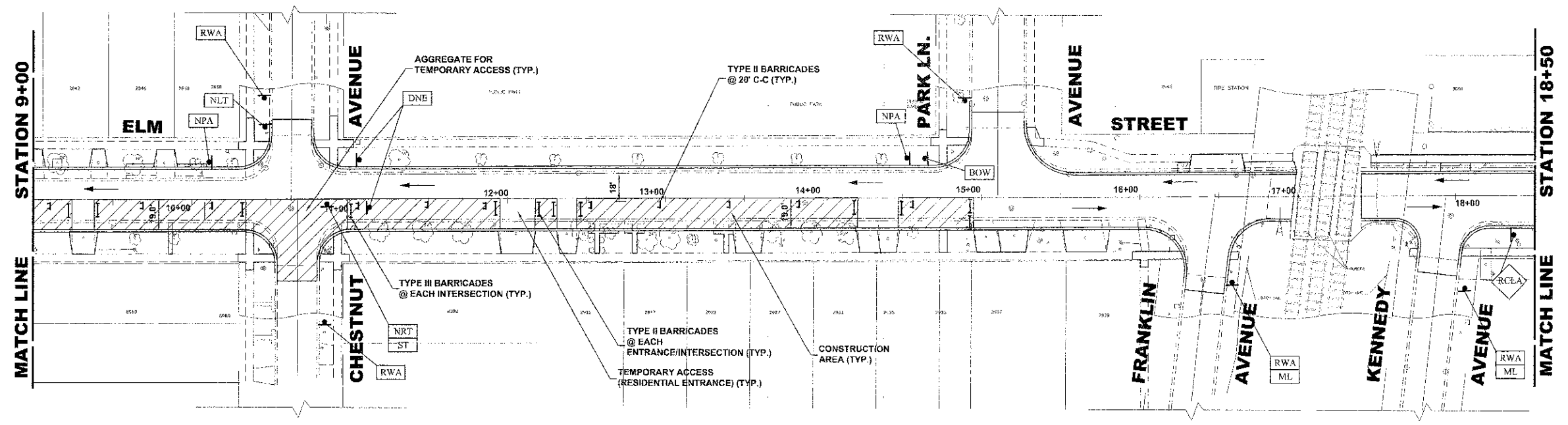
**LEGEND**

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW



**STAGE 2b CONSTRUCTION  
TYPICAL SECTION**



◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

9538 Research Road  
Waukegan, Illinois 60087-4700  
Phone: 708/945-0380  
Fax: 708/945-1211

DESIGNED - CB/SBC  
DRAWN - ECW, MK, DMM  
CHECKED - MDL  
DATE - 12-7-12

REVISED -  
REVISED -  
REVISED -  
REVISED -

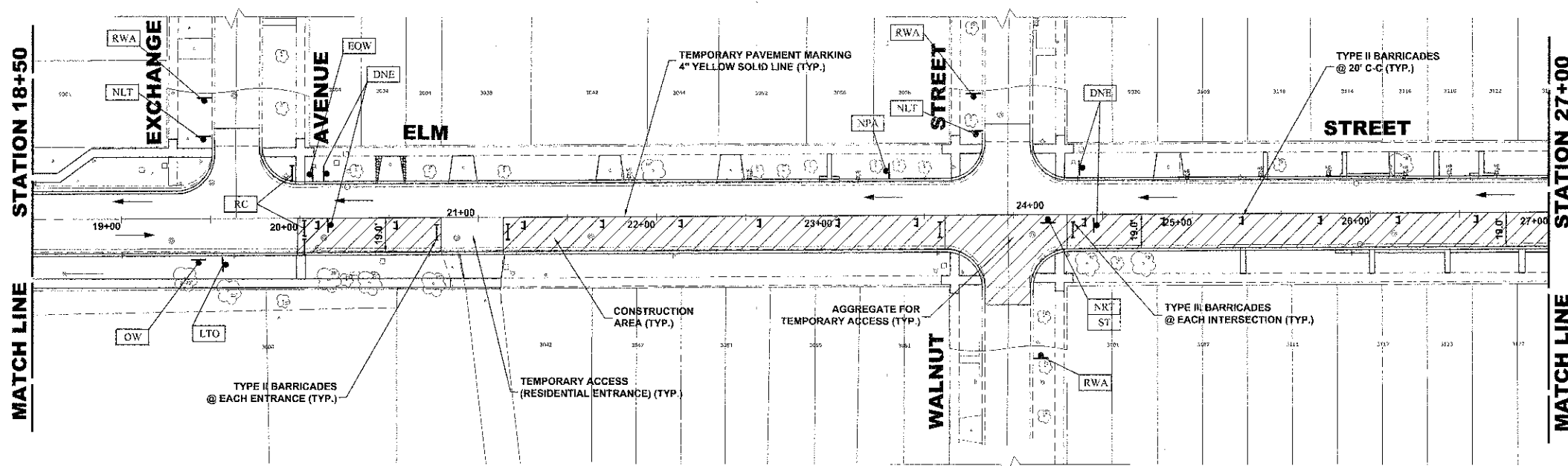
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGE 2b CONSTRUCTION**

SCALE: 1" = 40'    SHEET NO. 1 OF 2 SHEETS    STA. 1+00 TO STA. 18+50

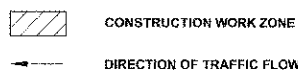
| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 1260  | 12-00097-00-PV | COOK               | 56           | 26        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

Drawing file: W:\Projects\76012052 - ELM STREET RECONSTRUCTION PHASE IV 21-27 Signs-Construction.mxd    Date: 06/20/13    4:58pm

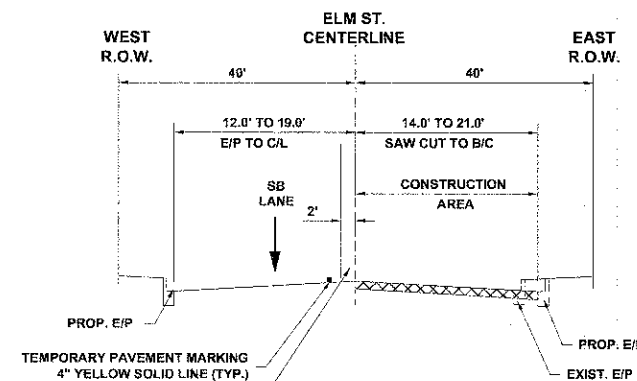
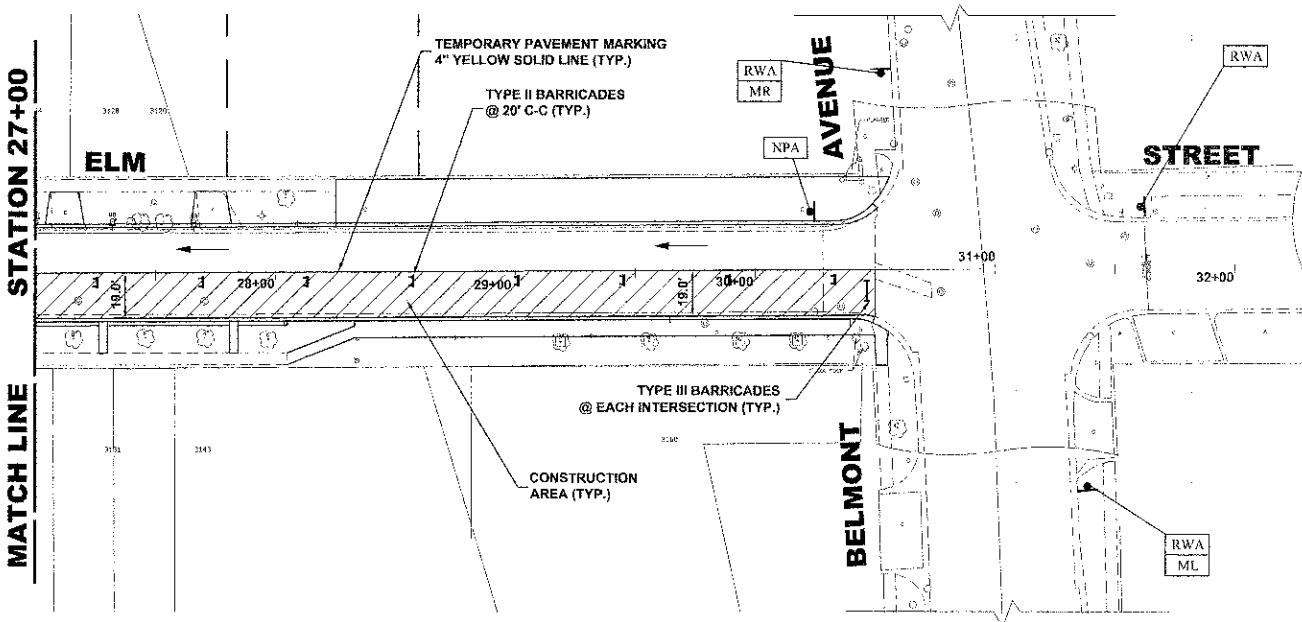


**STAGE 2b CONSTRUCTION**

**LEGEND**

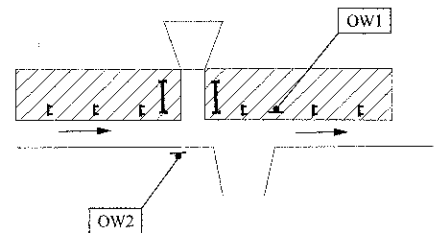


1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG EAST SIDE OF ELM ST.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER AND AS PAID FOR AS TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG EAST SIDE OF ELM ST.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS AGGREGATE FOR TEMPORARY ACCESS, EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



**STAGE 2b CONSTRUCTION  
TYPICAL SECTION**

NOTE:  
ONE WAY (R6-1) SIGNS ARE REQUIRED  
IN FRONT OF ALL DRIVEWAYS AS SHOWN



**TYPICAL DRIVEWAY DETAIL**



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911  
 9933 Roosevelt Road  
 Wheeling, IL 60094-4790  
 Phone: 708/676-8000  
 Fax: 708/676-1313

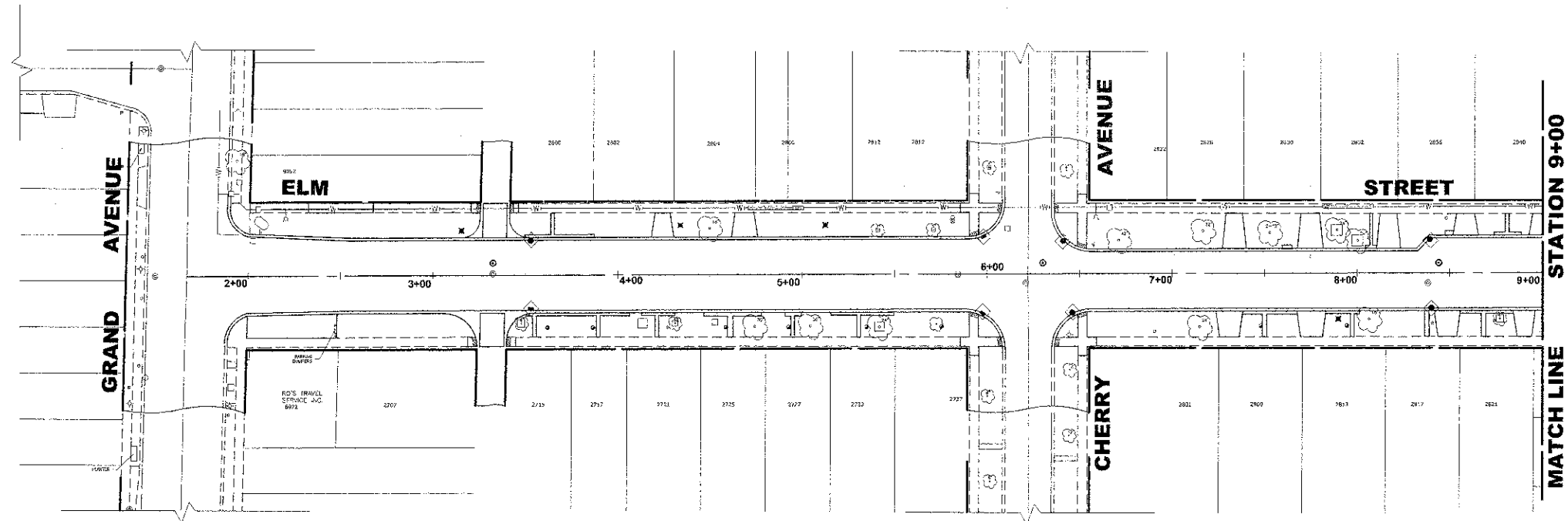
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|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN  
STAGE 2b CONSTRUCTION**

SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA. 18+50 TO STA. 32+00

| F.A.U. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 1260  | 12-00097-00-PV | COOK               | 56           | 27        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

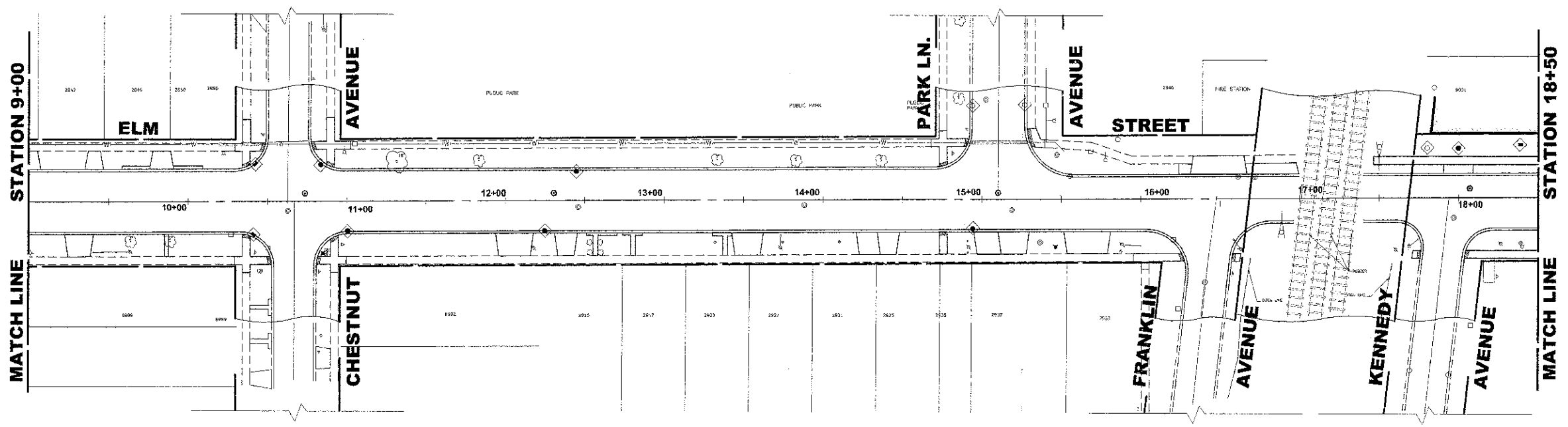
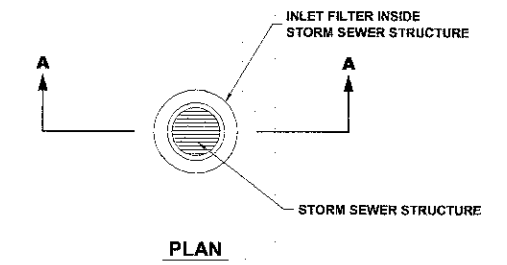
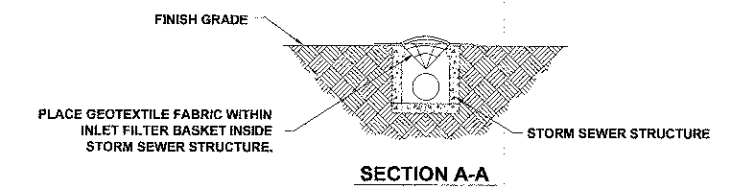


**EROSION CONTROL NOTES**

1. SEE IDOT STANDARD 280001-06 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL UTILIZE A SPECIFIC CONCRETE WASH OUT AREA LOCATED AWAY FROM DRAINAGE STRUCTURES, AT A FREQUENCY OF NO MORE THEN 1 X PER 1000' LOCATION TO BE DETERMINED IN FIELD

**LEGEND**

| SYMBOL | DESCRIPTION                                       |
|--------|---|
|        | INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE |



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

9933 Roosevelt Road  
 Westchester, Illinois 60154-2780  
 Phone: 708/965-4300  
 Fax: 708/966-4312

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

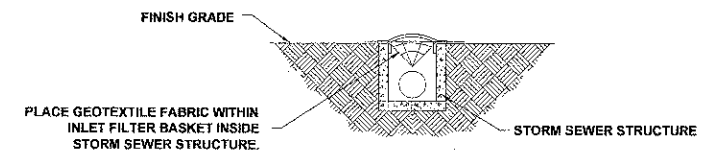
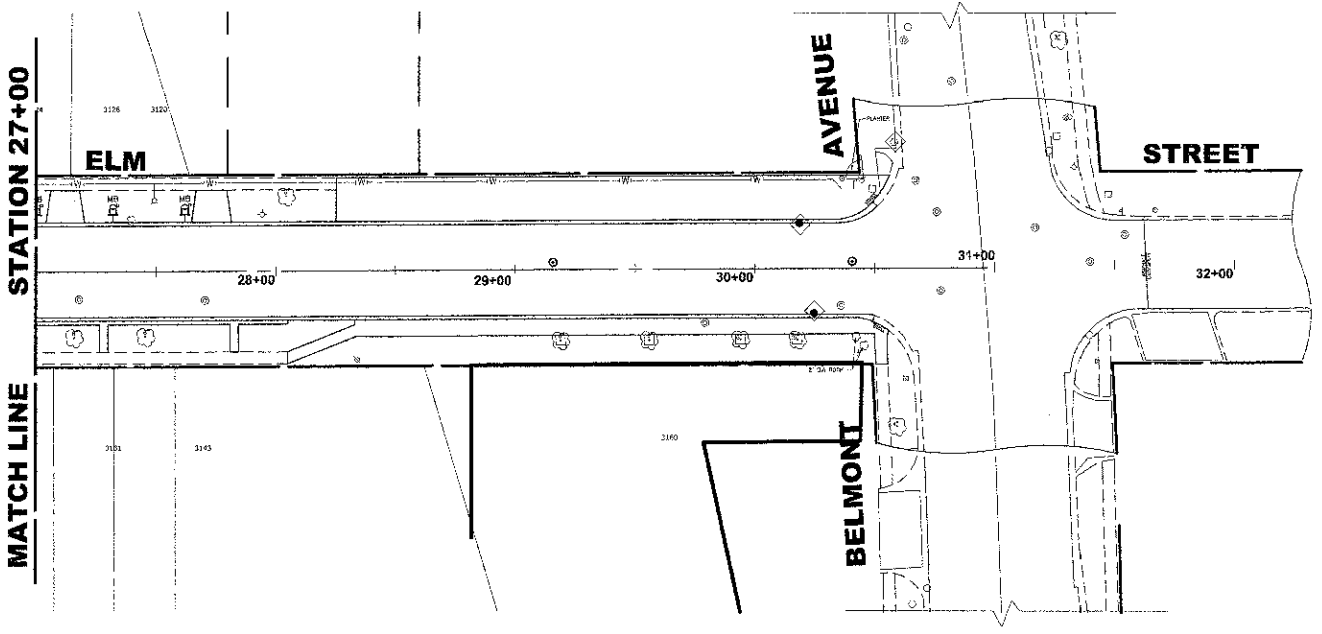
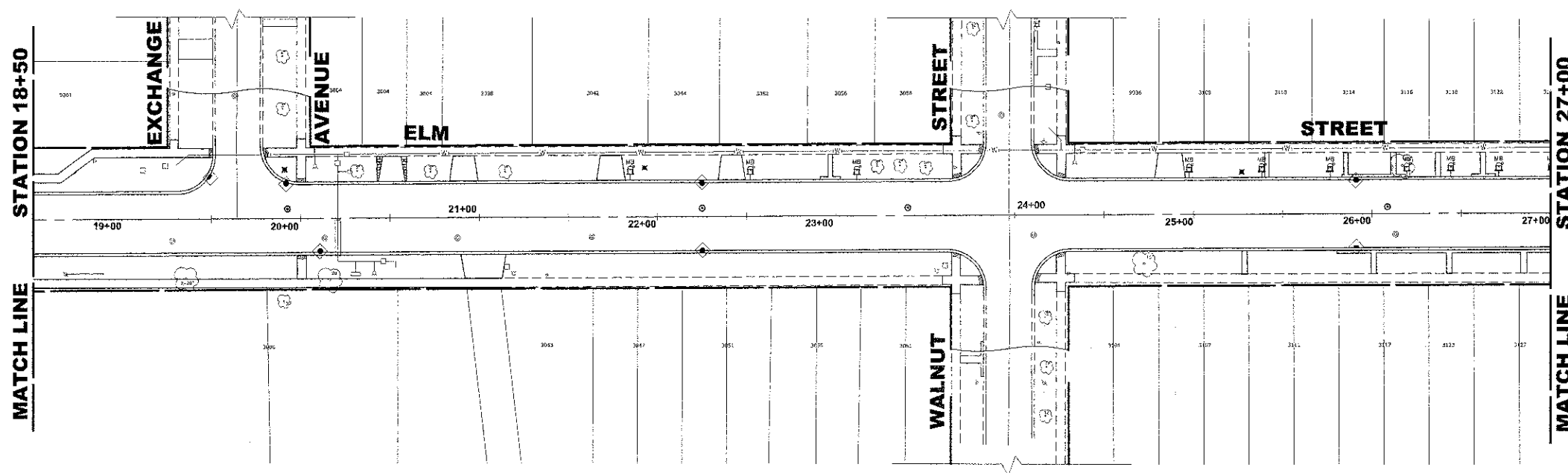
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

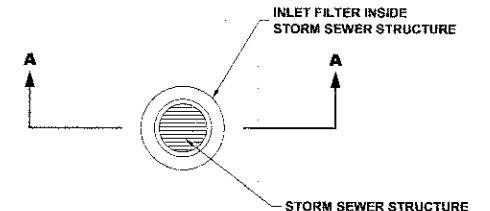
SCALE: 1" = 40'      SHEET NO. 1 OF 2 SHEETS      STA. -      TO STA. -

| F.A.U. RTE.                    | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|--------------------------------|----------------|--------------------|--------------|-----------|
| 1280                           | 12-00097-00-PV | COOK               | 56           | 28        |
| FIELD BOOK NO. : X             |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS |                | FED. AID PROJECT   |              |           |

Drawing file: W:\Projects\78012002 - ELM STREET RECONSTRUCTION PHASE 1\28-44\_ELM\_4thcycle.dwg      Date: 07, 2012 - 2:54pm



SECTION A-A



PLAN

**LEGEND**

| SYMBOL | DESCRIPTION                                       |
|--------|---|
|        | INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE |

**EROSION CONTROL NOTES**

- SEE IDOT STANDARD 280001-06 FOR TEMPORARY EROSION CONTROL SYSTEMS.
- THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
- SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
- WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL UTILIZE A SPECIFIC CONCRETE WASH OUT AREA LOCATED AWAY FROM DRAINAGE STRUCTURES, AT A FREQUENCY OF NO MORE THEN 1 X PER 1000' LOCATION TO BE DETERMINED IN FIELD

Drawing file: W:\Projects\76012002 - ELM STREET RECONSTRUCTION PHASE 1\28-44-ELM\_10bocade.dwg Dec. 07, 2012 - 2:54pm

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Boswell Road  
 Wheeling, Illinois 60154-3780  
 Phone: 708/865-6390  
 Fax: 708/865-1112

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

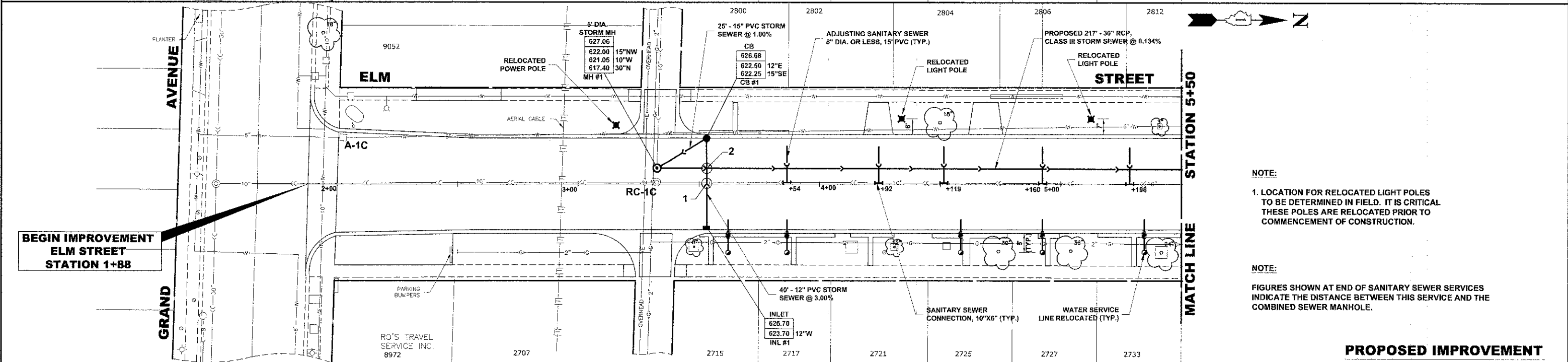
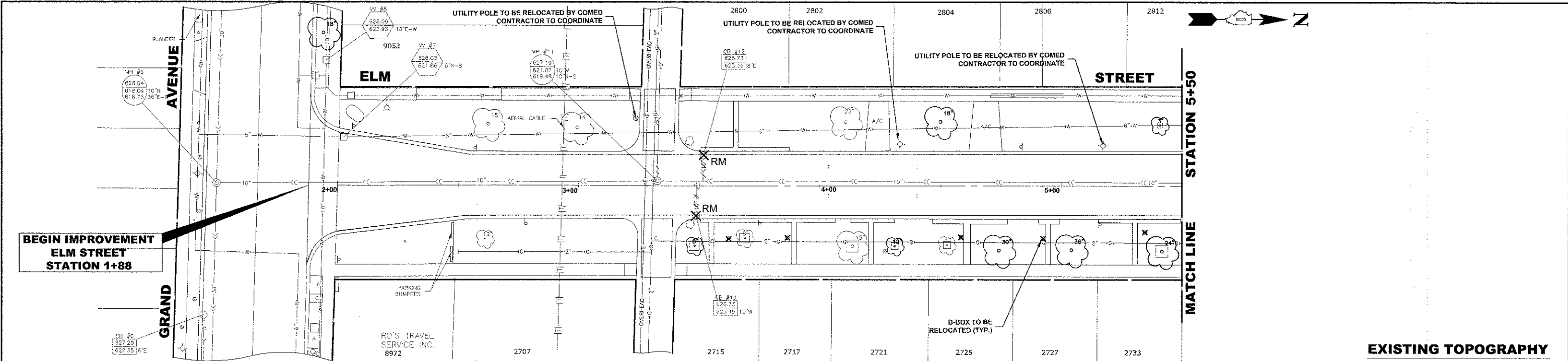
**EROSION CONTROL PLAN**

SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

|                       |                |                    |                  |           |
|-----------------------|----------------|--------------------|------------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK               | 56               | 29        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           | FED. AID PROJECT |           |

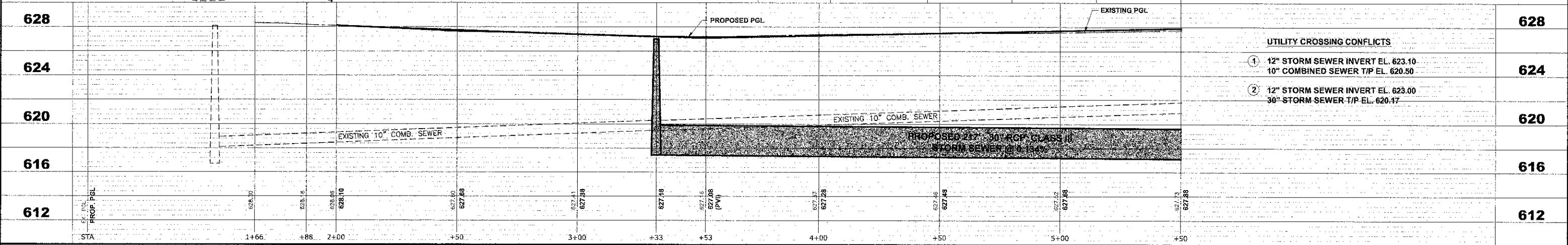


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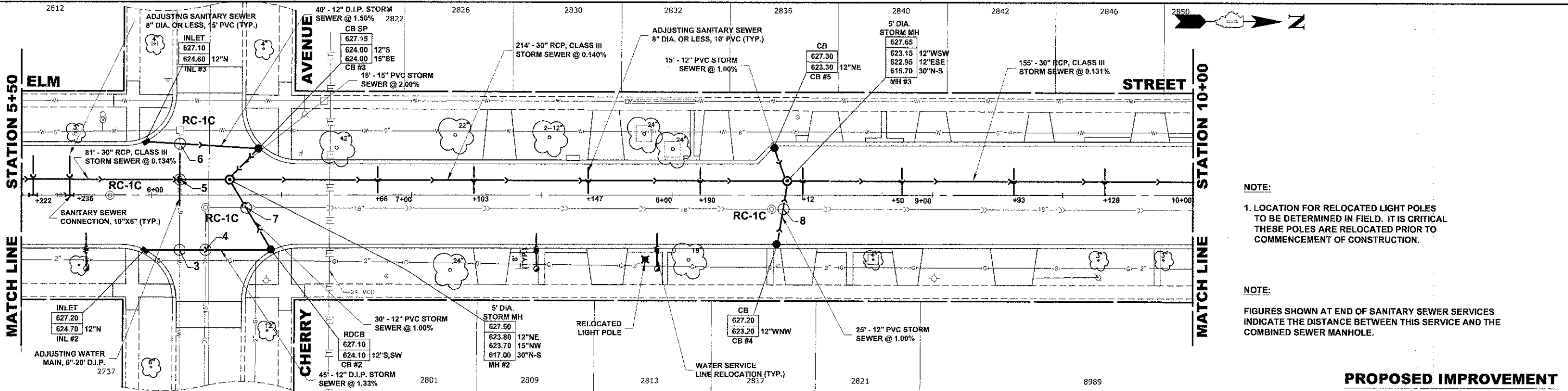
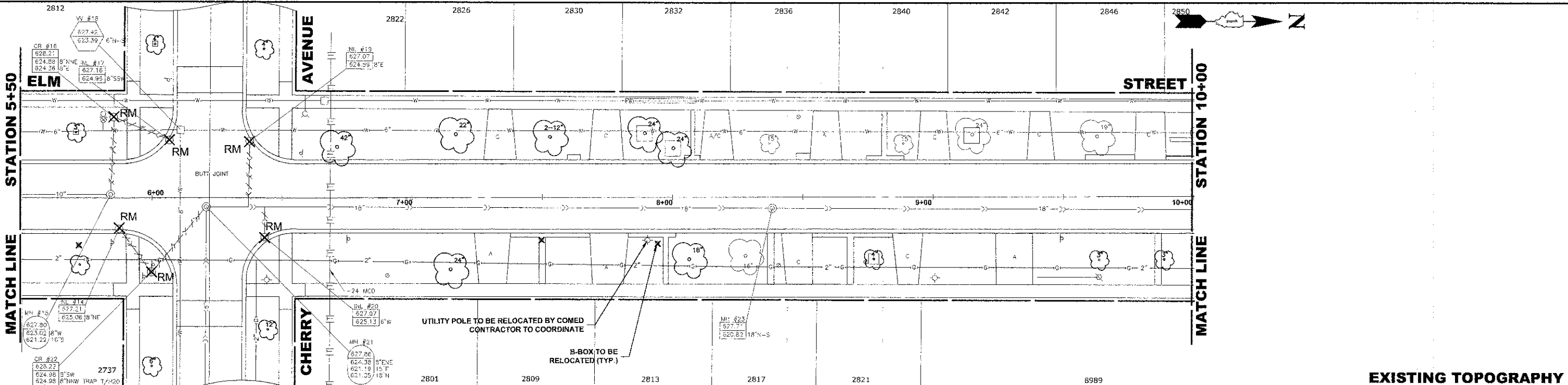


**NOTE:**  
1. LOCATION FOR RELOCATED LIGHT POLES TO BE DETERMINED IN FIELD. IT IS CRITICAL THESE POLES ARE RELOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**NOTE:**  
FIGURES SHOWN AT END OF SANITARY SEWER SERVICES INDICATE THE DISTANCE BETWEEN THIS SERVICE AND THE COMBINED SEWER MANHOLE.

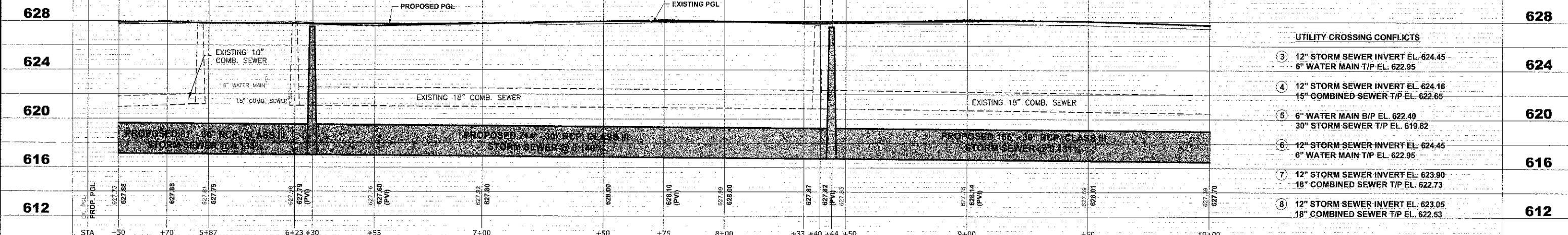


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|--|----------------------|-----------|---|--|-----------------------|------------------------|------------------|-----------------|--------------|
|  | DESIGNED - CB/SBC    | REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>ELM STREET</b><br><b>UTILITY PLAN AND PROFILE</b> | F.A.U. RTE. 1260      | SECTION 12-00097-00-PV | COUNTY COOK      | TOTAL SHEETS 56 | SHEET NO. 30 |
|  | DRAWN - ECW, MK, DMM | REVISED - |   |  | FIELD BOOK NO.: X     | CONTRACT NO. 63771     |                  |                 |              |
|  | CHECKED - MDL        | REVISED - |   |  | FED. ROAD DIST. NO. 1 | ILLINOIS               | FED. AID PROJECT |                 |              |
|  | DATE - 12-7-12       | REVISED - |   |  | SCALE: 1"=20' H, 4"V  |                        |                  |                 |              |



NOTE:  
1. LOCATION FOR RELOCATED LIGHT POLES TO BE DETERMINED IN FIELD. IT IS CRITICAL THESE POLES ARE RELOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

NOTE:  
FIGURES SHOWN AT END OF SANITARY SEWER SERVICES INDICATE THE DISTANCE BETWEEN THIS SERVICE AND THE COMBINED SEWER MANHOLE.



| STATION | UTILITY CROSSING CONFLICTS   | STATION |
|---------|--|---------|
| 628     |  | 628     |
| 624     | ③ 12" STORM SEWER INVERT EL. 624.45<br>6" WATER MAIN T/P EL. 622.95      | 624     |
| 620     | ④ 12" STORM SEWER INVERT EL. 624.16<br>15" COMBINED SEWER T/P EL. 622.65 | 620     |
| 616     | ⑤ 6" WATER MAIN B/P EL. 622.40<br>30" STORM SEWER T/P EL. 619.82         | 616     |
| 612     | ⑥ 12" STORM SEWER INVERT EL. 624.45<br>6" WATER MAIN T/P EL. 622.95      | 612     |
|         | ⑦ 12" STORM SEWER INVERT EL. 623.90<br>18" COMBINED SEWER T/P EL. 622.73 | 616     |
|         | ⑧ 12" STORM SEWER INVERT EL. 623.05<br>18" COMBINED SEWER T/P EL. 622.53 | 612     |

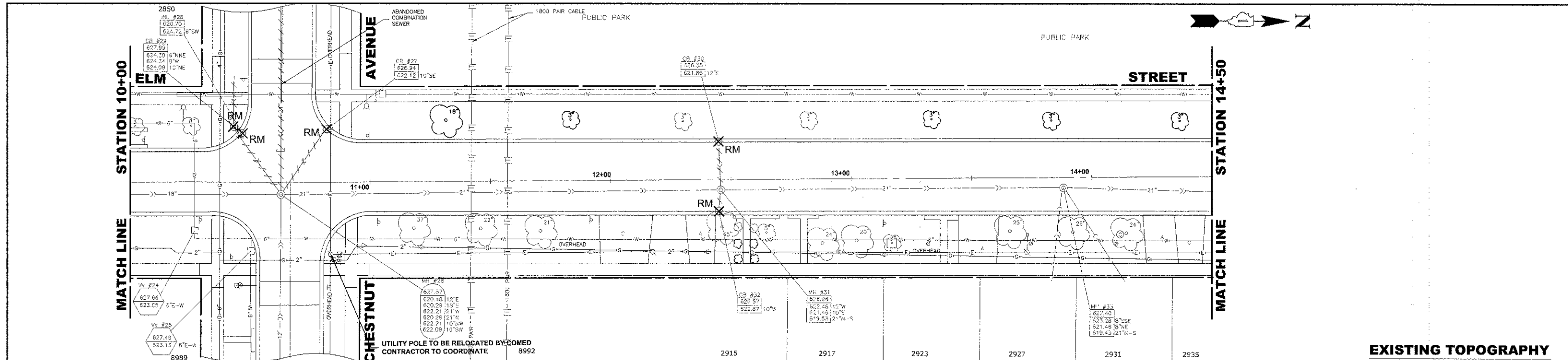
**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Roswell Road  
 Worthen, Illinois 6154-3790  
 Phone: 708/865-0390  
 Fax: 708/865-1112

|            |              |           |
|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

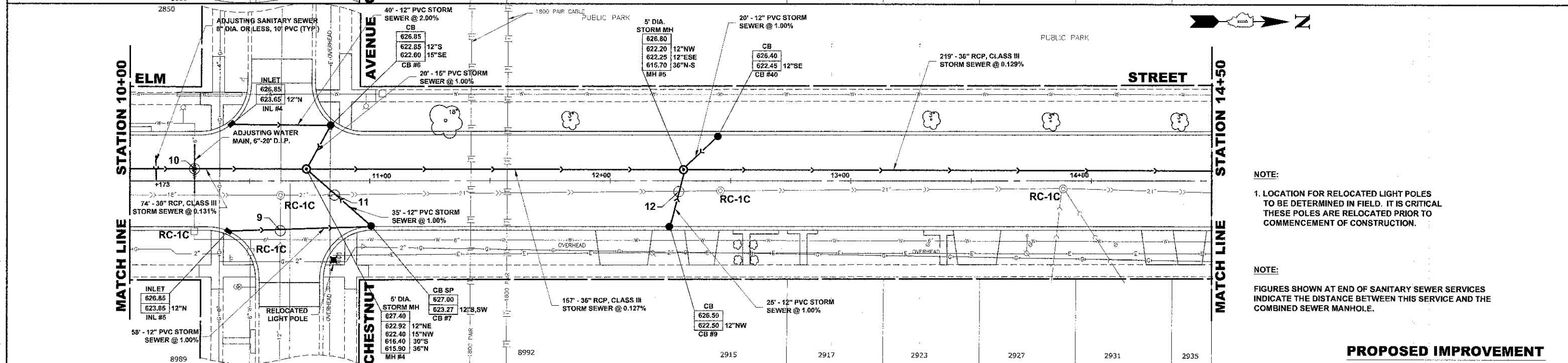
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ELM STREET  
 UTILITY PLAN AND PROFILE  
 SCALE: 1"=20' H./4'V  
 SHEET NO. 2 OF 7 SHEETS  
 STA. - TO STA. -

|                                |                |                    |              |           |
|--------------------------------|----------------|--------------------|--------------|-----------|
| F.A.U. RTE.                    | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260                           | 12-00097-00-PV | COOK               | 56           | 31        |
| FIELD BOOK NO. : X             |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS |                | FED. AID PROJECT   |              |           |



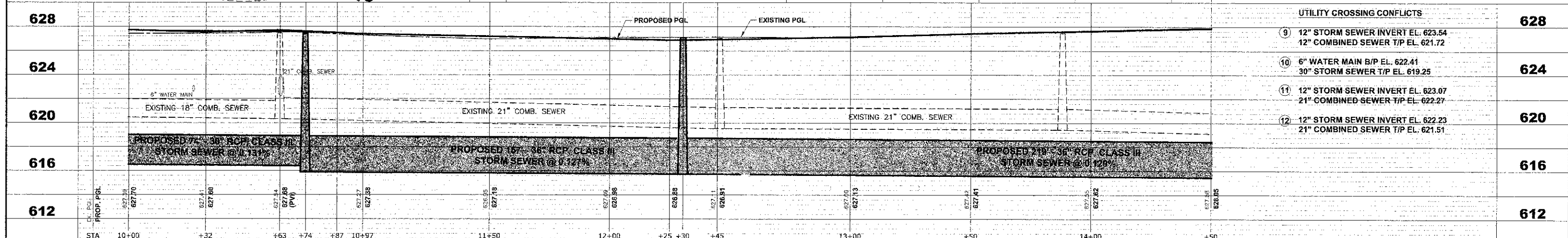
**EXISTING TOPOGRAPHY**



**NOTE:**  
1. LOCATION FOR RELOCATED LIGHT POLES TO BE DETERMINED IN FIELD. IT IS CRITICAL THESE POLES ARE RELOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

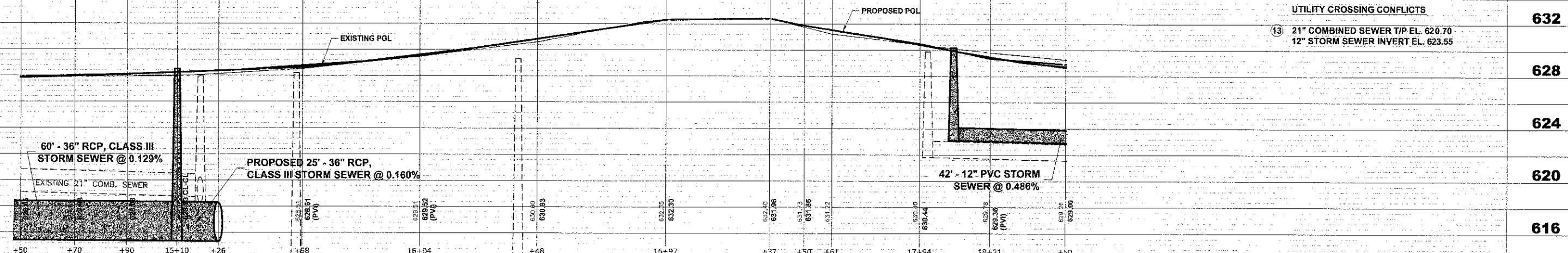
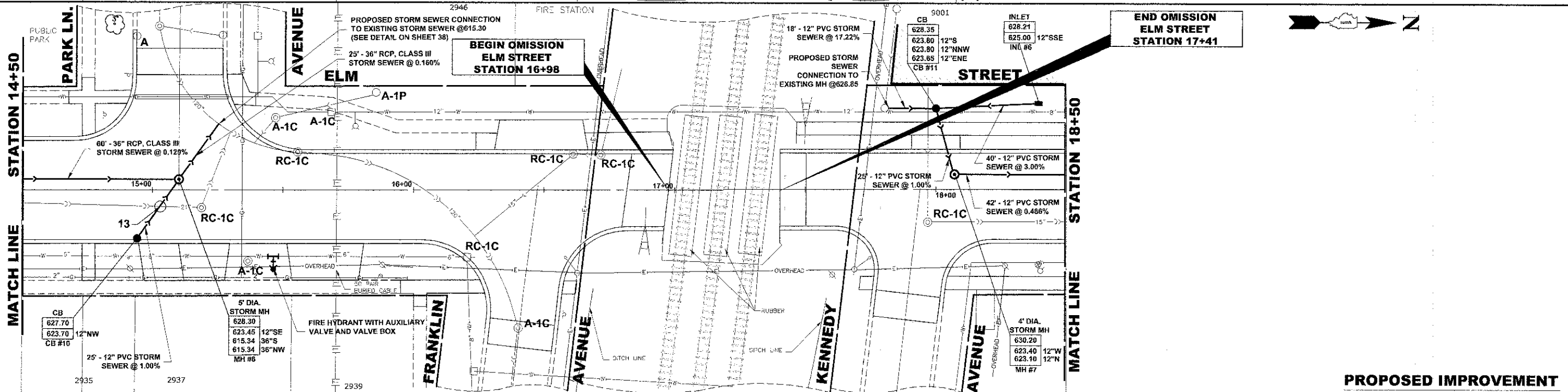
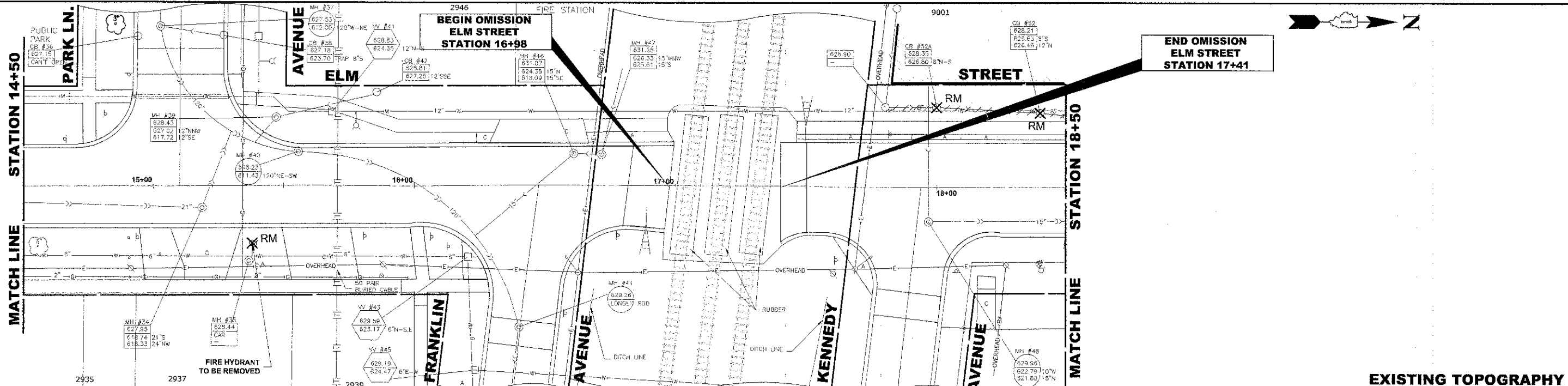
**NOTE:**  
FIGURES SHOWN AT END OF SANITARY SEWER SERVICES INDICATE THE DISTANCE BETWEEN THIS SERVICE AND THE COMBINED SEWER MANHOLE.

**PROPOSED IMPROVEMENT**



| STATION | UTILITY CROSSING CONFLICTS   | ELEVATION |
|---------|--|-----------|
| 9       | 12" STORM SEWER INVERT EL. 623.54<br>12" COMBINED SEWER T/P EL. 621.72 | 628       |
| 10      | 6" WATER MAIN B/P EL. 622.41<br>30" STORM SEWER T/P EL. 619.25         | 624       |
| 11      | 12" STORM SEWER INVERT EL. 623.07<br>21" COMBINED SEWER T/P EL. 622.27 | 620       |
| 12      | 12" STORM SEWER INVERT EL. 622.23<br>21" COMBINED SEWER T/P EL. 621.51 | 620       |

|  |  |  |  |   |  |  |
|--|--|--|--|---|--|--|
| <p><b>HANCOCK ENGINEERING</b><br/>Civil Engineers<br/>Municipal Consultants<br/>Established 1911</p> | 9933 Roseville Road<br>Wheeling, Illinois 60154-7780<br>Phone: 708/865-0390<br>Fax: 708/865-0212 | DESIGNED - CB/SBC<br>DRAWN - ECW, MK, DMM<br>CHECKED - MDL<br>DATE - 12-7-12 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>ELM STREET</b><br><b>UTILITY PLAN AND PROFILE</b> | F.A.U. RTE. 1260<br>SECTION 12-00097-00-PV<br>COUNTY COOK<br>TOTAL SHEETS 56<br>SHEET NO. 32<br>FIELD BOOK NO. : X<br>CONTRACT NO. 63771<br>FED. ROAD DIST. NO. 1 ILLINOIS<br>FED. AID PROJECT |
|  | SCALE: 1"=20' H, 4"V<br>SHEET NO. 3 OF 7 SHEETS<br>STA. TO STA.                                  |  | STA. 10+00 TO 14+50                              |   | E.H.E. PROJECT NO. 760-12-05201                      |  |



Drawing file: W:\Projects\76012029 - ELM STREET RECONSTRUCTION PHASE (TOP)\ELM STREET (TOP).dwg Dec 11, 2013 - 10:22am

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911

9913 Roseville Road  
 Wheeling, Illinois 60454-1780  
 Phone: 708/965-0300  
 Fax: 708/965-1212

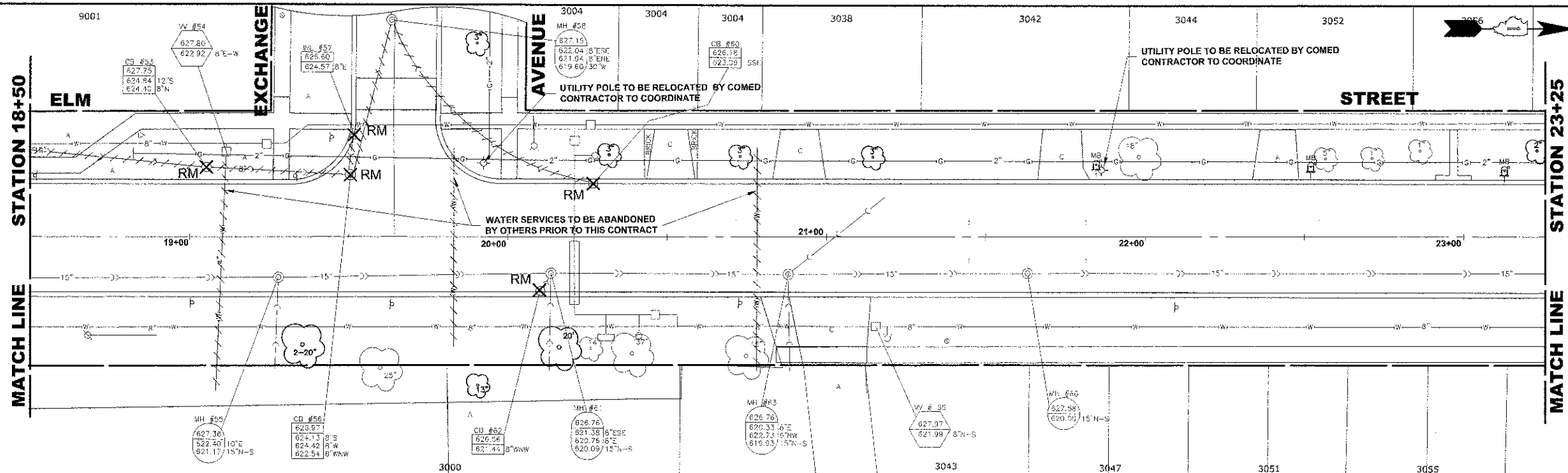
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|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

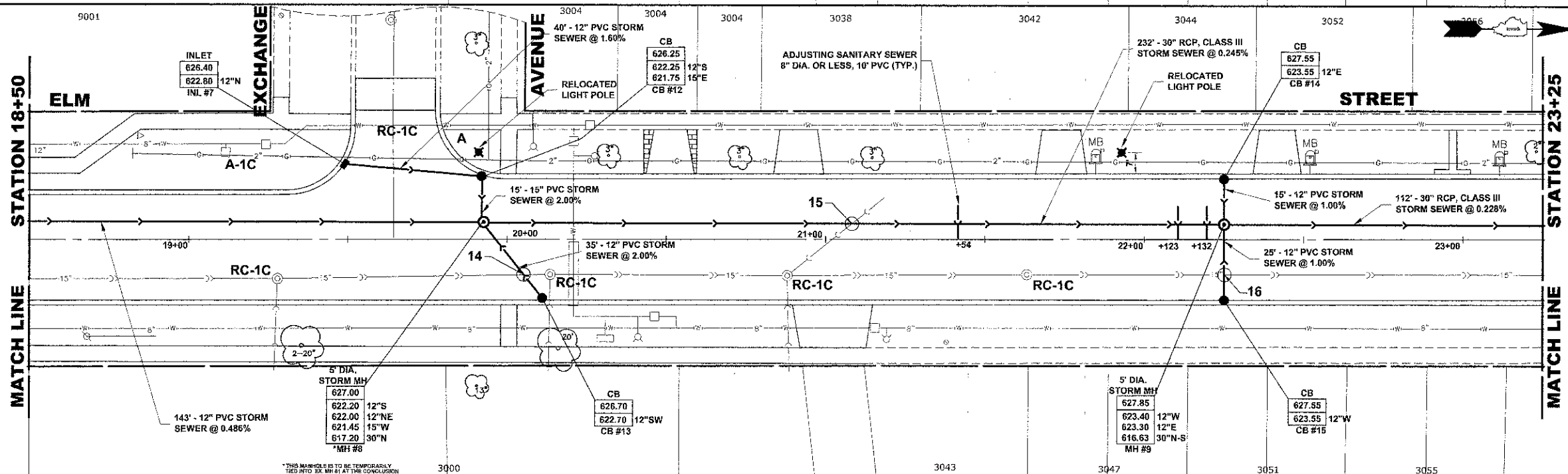
**ELM STREET  
 UTILITY PLAN AND PROFILE**

SCALE: 1"=20' H, 4"V SHEET NO. 4 OF 7 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.U. R.T.E.                                   | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 58           | 33        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |



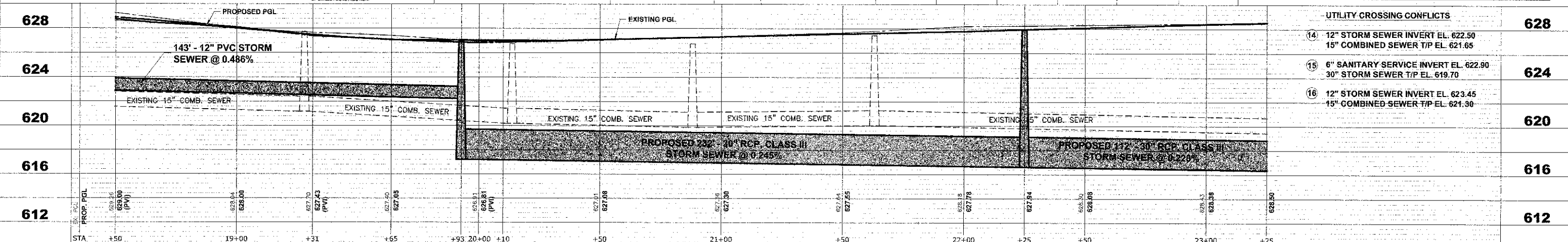
**EXISTING TOPOGRAPHY**



**NOTE:**  
1. LOCATION FOR RELOCATED LIGHT POLES TO BE DETERMINED IN FIELD. IT IS CRITICAL THESE POLES ARE RELOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**NOTE:**  
FIGURES SHOWN AT END OF SANITARY SEWER SERVICES INDICATE THE DISTANCE BETWEEN THIS SERVICE AND THE COMBINED SEWER MANHOLE.

**PROPOSED IMPROVEMENT**



| UTILITY CROSSING CONFLICTS |   |     |
|----------------------------|---|-----|
| 14                         | 12" STORM SEWER INVERT EL. 622.50<br>15" COMBINED SEWER T/P EL. 621.65  | 628 |
| 15                         | 6" SANITARY SERVICE INVERT EL. 622.90<br>30" STORM SEWER T/P EL. 619.70 | 624 |
| 16                         | 12" STORM SEWER INVERT EL. 623.45<br>15" COMBINED SEWER T/P EL. 621.30  | 620 |

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Roosevelt Road  
 Wortham, Illinois 60154-2780  
 Phone: 708-965-4390  
 Fax: 708-965-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

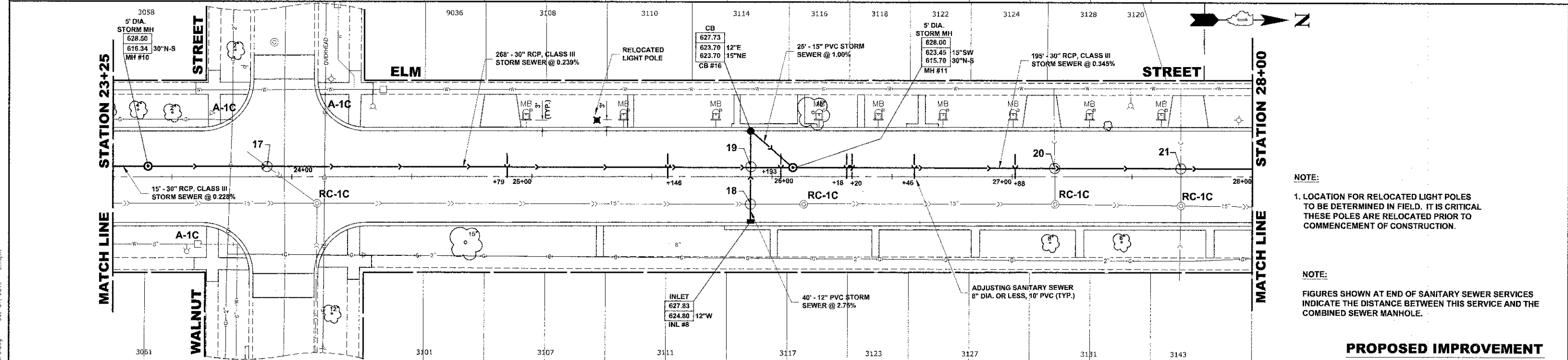
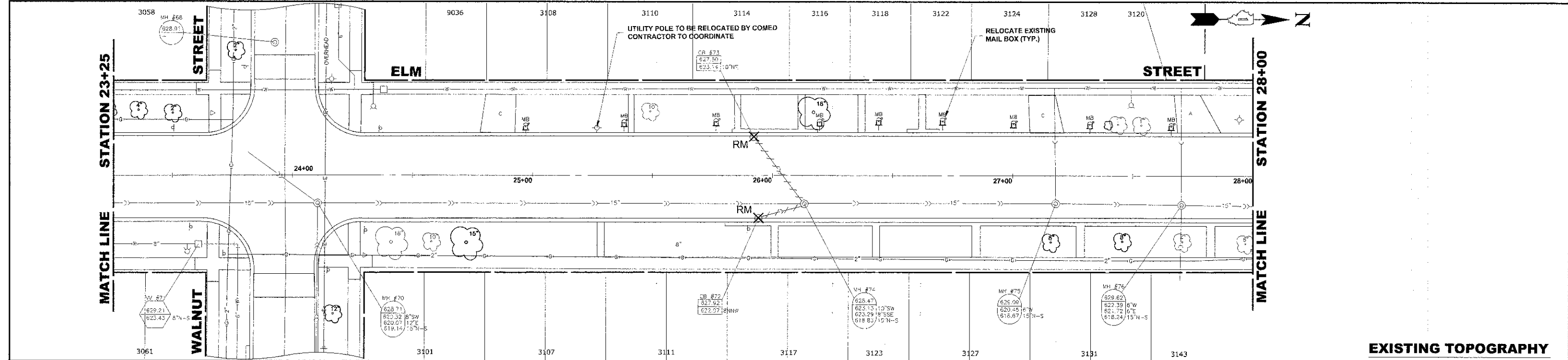
**ELM STREET  
UTILITY PLAN AND PROFILE**

SCALE: 1"=20' H./V' SHEET NO. 5 OF 7 SHEETS STA. - TO STA. -

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 34        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

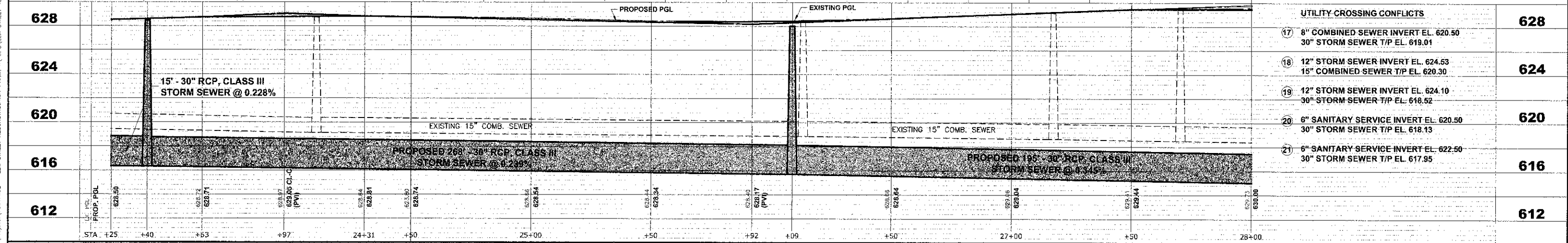
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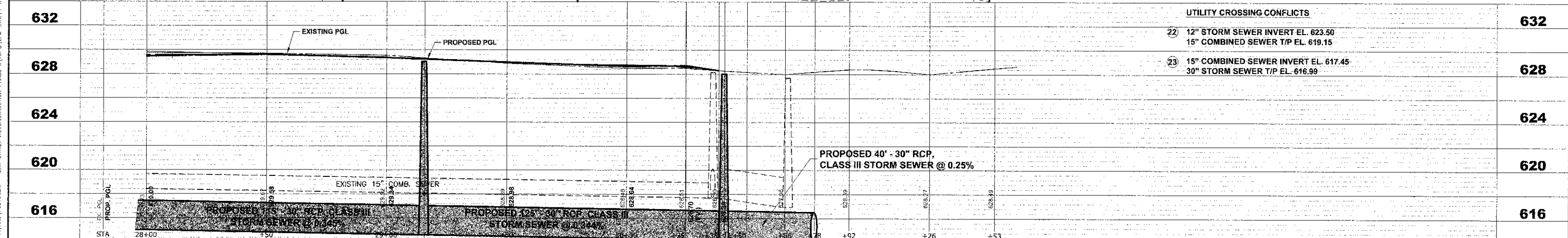
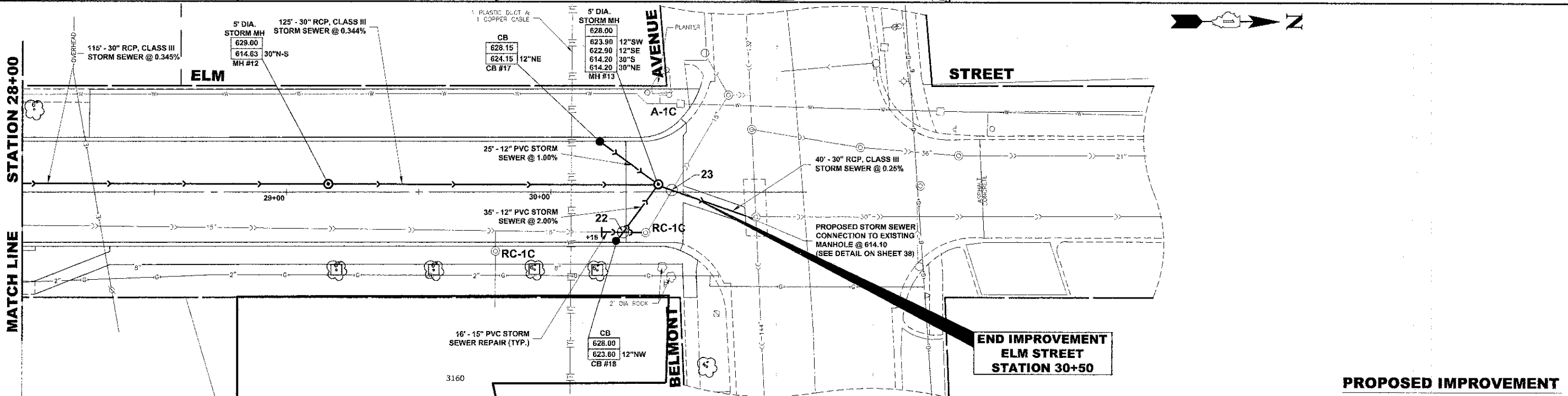
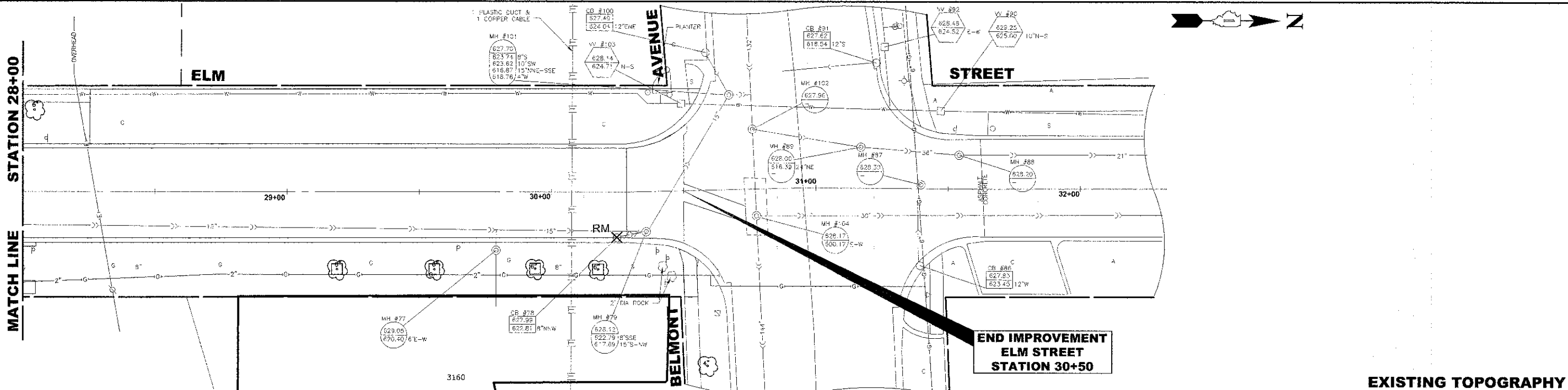


**NOTE:**  
 1. LOCATION FOR RELOCATED LIGHT POLES TO BE DETERMINED IN FIELD. IT IS CRITICAL THESE POLES ARE RELOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**NOTE:**  
 FIGURES SHOWN AT END OF SANITARY SEWER SERVICES INDICATE THE DISTANCE BETWEEN THIS SERVICE AND THE COMBINED SEWER MANHOLE.



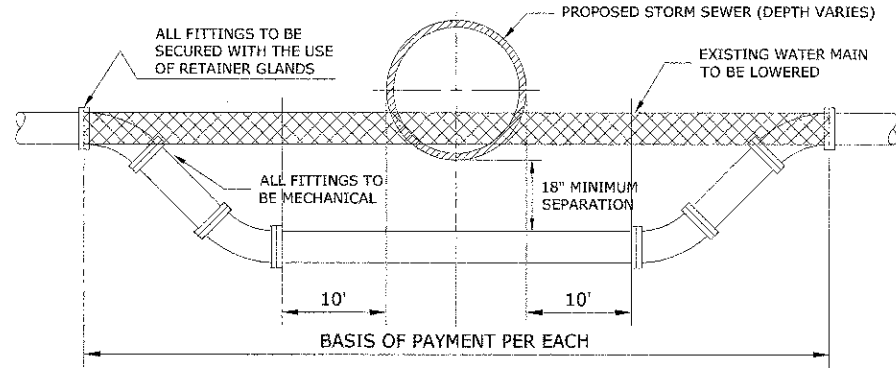
| PROPOSED IMPROVEMENT |  |
|----------------------|--|
| 628                  | UTILITY-CROSSING CONFLICTS   |
| 624                  | (17) 8" COMBINED SEWER INVERT EL. 620.50<br>30" STORM SEWER T/P EL. 619.01   |
| 620                  | (18) 12" STORM SEWER INVERT EL. 624.53<br>15" COMBINED SEWER T/P EL. 620.30  |
| 616                  | (19) 12" STORM SEWER INVERT EL. 624.10<br>30" STORM SEWER T/P EL. 618.52     |
| 612                  | (20) 6" SANITARY SERVICE INVERT EL. 620.50<br>30" STORM SEWER T/P EL. 618.13 |
|                      | (21) 6" SANITARY SERVICE INVERT EL. 622.50<br>30" STORM SEWER T/P EL. 617.95 |



|  |            |              |           |   |  |                       |                    |                  |             |    |
|--|------------|--------------|-----------|---|--|-----------------------|--------------------|------------------|-------------|----|
| <p> <b>HANCOCK ENGINEERING</b><br/>         Civil Engineers<br/>         Municipal Consultants<br/>         Established 1911<br/>         5933 Roosevelt Road<br/>         Wheaton, Illinois 60154-2780<br/>         Phone: 708/965-6300<br/>         Fax: 708/965-1212       </p> | DESIGNED - | CB/SBC       | REVISED - | <p align="center"> <b>STATE OF ILLINOIS</b><br/> <b>DEPARTMENT OF TRANSPORTATION</b> </p> | <p align="center"> <b>ELM STREET</b><br/> <b>UTILITY PLAN AND PROFILE</b> </p> | F.A.U. RTE.           | SECTION            | COUNTY           | TOTAL SHEET |    |
|  | DRAWN -    | ECW, MK, DMM | REVISED - |   |  | 1250                  | 12-00097-00-PV     | COOK             | 56          | 36 |
|  | CHECKED -  | MDL          | REVISED - |   |  | FIELD BOOK NO. : X    | CONTRACT NO. 63771 |                  |             |    |
|  | DATE -     | 12-7-12      | REVISED - |   |  | FED. ROAD DIST. NO. 1 | ILLINOIS           | FED. AID PROJECT |             |    |

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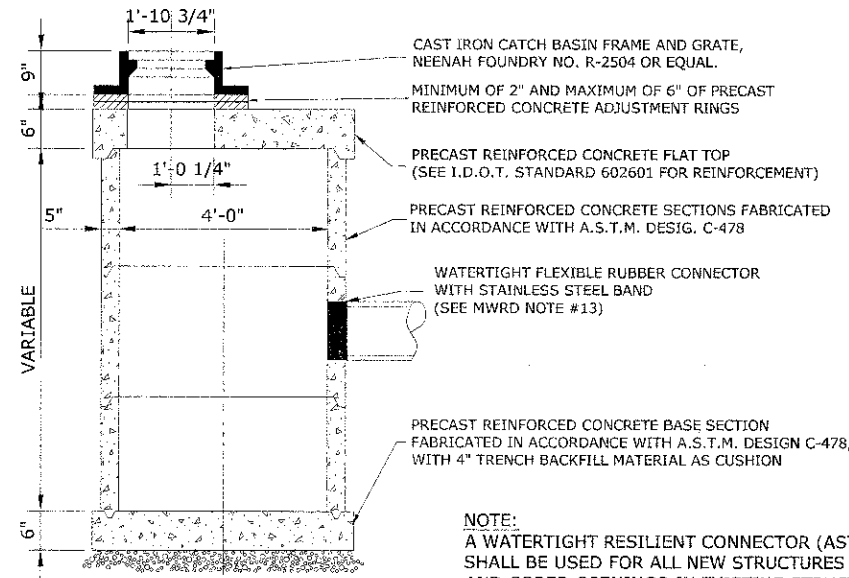


ALL WATER MAIN RELOCATION SHALL BE DONE WITH SHUT DOWN CONNECTIONS

**ADJUSTING WATER MAIN, 6"**

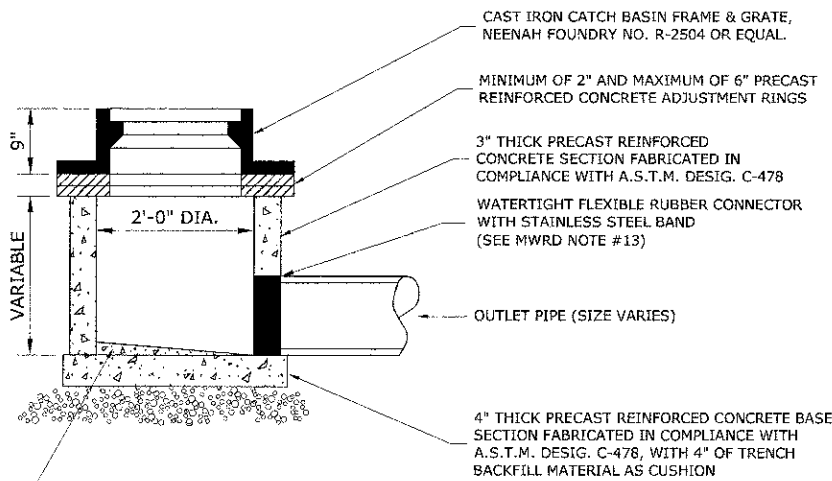
**DUCTILE IRON PIPE SPECIFICATIONS**

1. ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11, WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, MECHANICAL JOINTS AND "LOCK-TYPE" JOINTS SHALL BE USED IN LIEU OF "PUSH-ON" JOINTS.
2. ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 AND ANSI/AWWA C111/A21.11 SPECIFICATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS 150 DUCTILE IRON PIPE. IF CERTAIN FITTINGS ARE NOT MANUFACTURED IN DUCTILE IRON, CAST IRON FITTINGS SHALL BE ACCEPTABLE. MECHANICAL JOINT TYPE FITTINGS SHALL BE USED.
3. ALL PROPOSED DUCTILE IRON PIPE WATER MAIN AND SEWER MAIN WILL BE ENCASED WITHIN FOUR (4) MIL THICK, HIGH-DENSITY POLYETHYLENE TUBING. ALL FITTINGS SHALL BE ENCASED IN A DOUBLE-LAYER OF POLYETHYLENE TUBING. THE POLYETHYLENE MATERIAL SHALL BE MANUFACTURED AND INSTALLED IN COMPLIANCE WITH ANSI/AWWA C105/A21.5. ALL PROPOSED WATER AND SEWER SERVICES SHALL BE ENCASED IN POLYETHYLENE TUBING FOR A MINIMUM DISTANCE OF THREE FEET (3') FROM THE PROPOSED WATER MAIN AND SEWER MAIN.



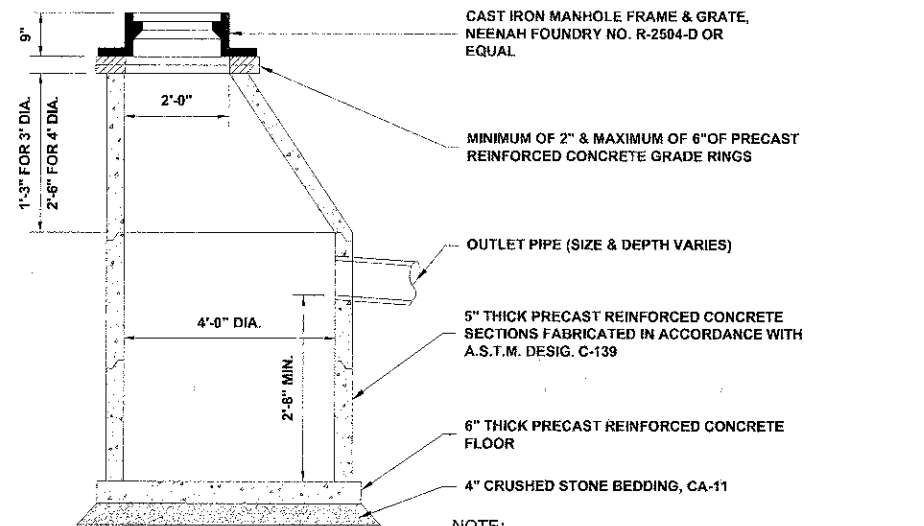
NOTE:  
A WATERTIGHT RESILIENT CONNECTOR (ASTM C-923) SHALL BE USED FOR ALL NEW STRUCTURES AND CORED OPENINGS IN EXISTING STRUCTURES BETWEEN STRUCTURE WALL AND SEWER PIPE.

**CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID (SPECIAL)**



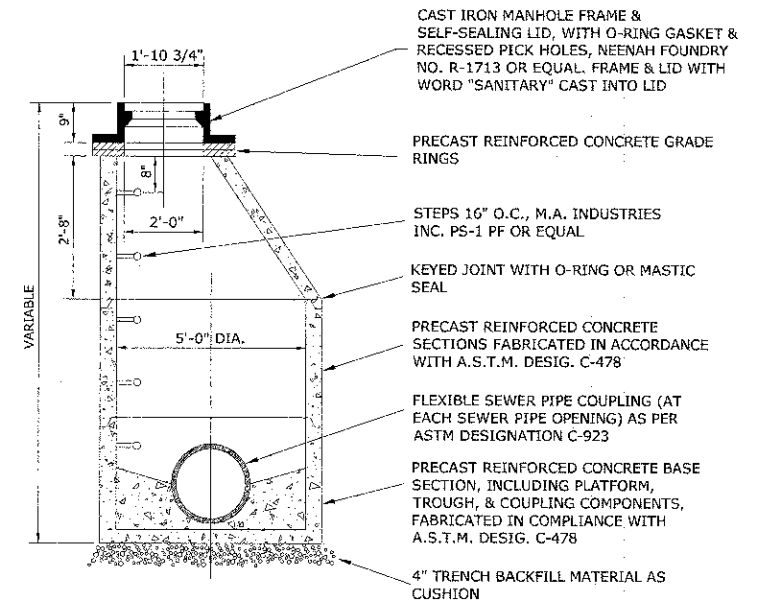
**INLETS, TYPE A, TYPE 1 FRAME, OPEN LID**

NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.



NOTE:  
A WATERTIGHT RESILIENT CONNECTOR (ASTM C-923) SHALL BE USED FOR ALL NEW STRUCTURES AND CORED OPENINGS IN EXISTING STRUCTURES BETWEEN STRUCTURE WALL AND SEWER PIPE.

**CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID**



NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.

**MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID**



Civil Engineers  
Municipal Consultants  
Established 1911

9933 Riverchase Blvd  
Wheaton, Illinois 60154-2780  
Phone: 708-965-4990  
Fax: 708-965-3323

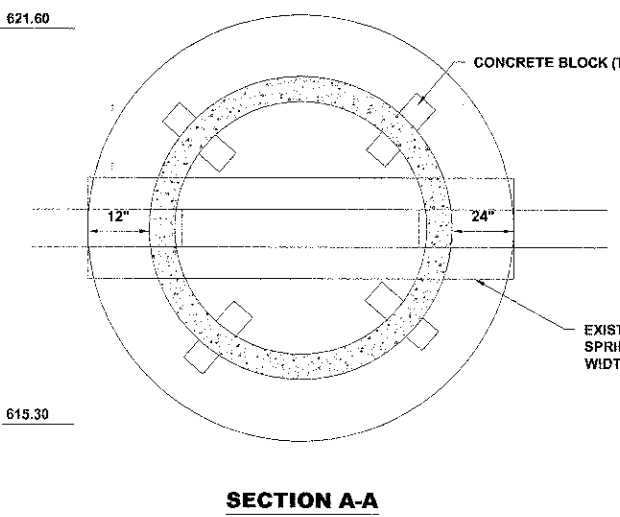
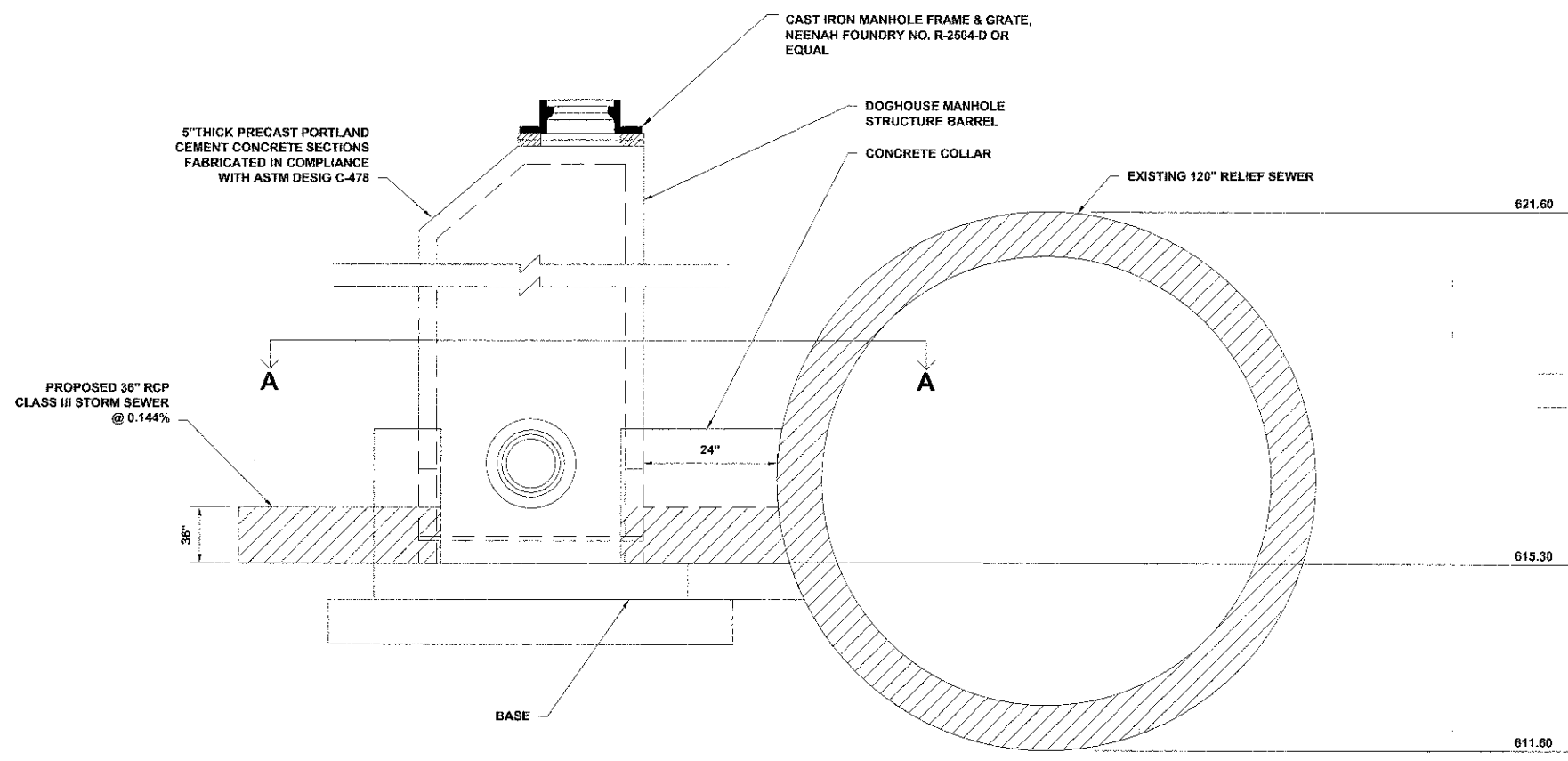
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|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES DETAILS

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.D. RTE.                                     | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV | COOK               | 56           | 37        |
| FIELD BOOK NO. : X                              |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |



- NOTE:**
- 1.) THE BASE AND BENCH OF THE MANHOLE SHALL BE POURED INTEGRALLY. NO PRECAST BASES WILL BE ALLOWED.
  - 2.) ALL POURED IN PLACE CONCRETE MUST BE 4000 PSI NON-SHRINK MIX. THE MINIMUM DIALTER OF MANHOLE IS 60".
  - 3.) CONCRETE BONDING AGENT MUST BE APPLIED TO ALL INTERFACES OF PRECAST CONCRETE SURFACES WITH POURED IN PLACE CONCRETE.
  - 4.) A CURVED INTERNAL ARCH FORM MUST BE USED DURING COLLAR CONCRETE PULL. NO BRICK, MORTAR, OR DEBRIS IS TO BE USED IN PLACE OF CONSOLIDATED CONCRETE.
  - 5.) DEBRIS MUST NOT BE ALLOWED TO ENTER THE SEWER SYSTEM AT ANY TIME DURING CONSTRUCTION. THE STRUCTURE MUST NOT BE BACKFILLED FOR A MINIMUM OF 24 HOURS AFTER CONSTRUCTION.
  - 6.) THE MANHOLE BENCH MUST HAVE 4% SLOPE TO DRAIN TO SPRING-LINE OF EXISTING SEWER.
  - 7.) THE MANHOLE BASE MUST BE POURED ON A MINIMUM OF 8" COMPACTED AGGREGATE.
  - 8.) THE MANHOLE BASE MUST BE 8" BELOW THE INVERT OF THE EXISTING SEWER AND EXTEND AROUND BARREL A MINIMUM OF 12", BUT WILL REACH THE OUTSIDE DIAMETER OF THE EXISTING RELIEF SEWER.
  - 9.) ALL CONSTRUCTION MUST MEET APPROVAL OF MWRD REQUIREMENTS.

**DOGHOUSE MANHOLE PROFILE**

**PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER**

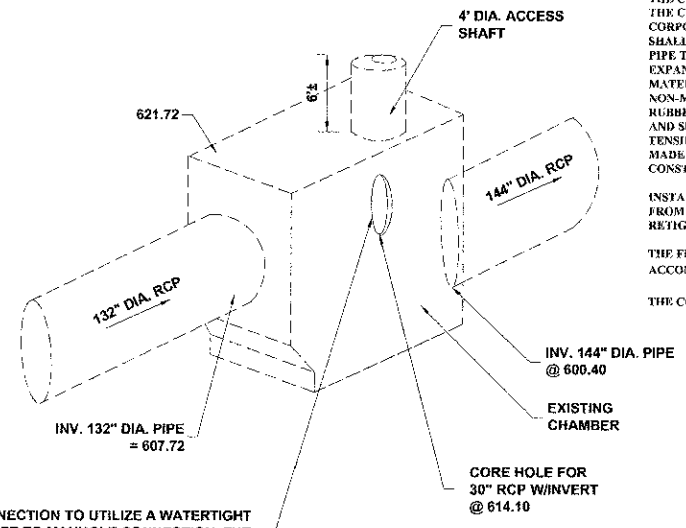
**NOTE:**

THE CONNECTION SHALL UTILIZE A WATERTIGHT FLEXIBLE PIPE-TO-MANHOLE CONNECTOR. THE CONNECTOR SHALL BE PSX-DIRECT DRIVE AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION, FORT WAYNE, INDIANA, OR APPROVED EQUAL. THE CONNECTOR ASSEMBLY SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE. THE CONNECTOR SHALL CONSIST OF A RUBBER GASKET, AN INTERNAL EXPANSION SLEEVE, AND ONE OR MORE EXTERNAL COMPRESSION TAKE-UP CLAMPS. APPROVED MATERIALS FOR THE CONNECTOR SHALL BE NATURAL OR SYNTHETIC RUBBER AND SERIES 300 NON-MAGNETIC STAINLESS STEEL. NO PLASTIC COMPONENTS SHALL BE PERMITTED. THE RUBBER GASKET ELEMENT SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, AND SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1600 PSI. THE INTERNAL EXPANSION SLEEVE COMPONENTS SHALL BE MADE OF SERIES 300 NON-MAGNETIC STAINLESS STEEL AND SHALL UTILIZE NO WELDS IN THEIR CONSTRUCTION.

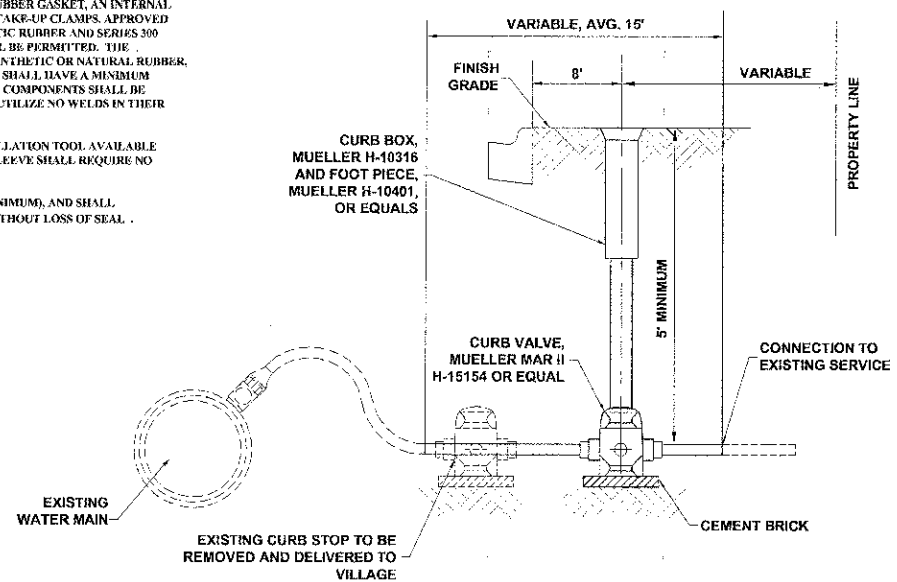
INSTALLATION SHALL BE PERFORMED USING A CALIBRATED INSTALLATION TOOL AVAILABLE FROM THE CONNECTOR MANUFACTURER. INSTALLATION OF THE SLEEVE SHALL REQUIRE NO RETIGHTENING AFTER THE INITIAL INSTALLATION.

THE FINISHED CONNECTION SHALL PROVIDE SEALING TO 13 PSI (MINIMUM), AND SHALL ACCOMMODATE DEFLECTION OF PIPE TO 7 DEGREES (MINIMUM) WITHOUT LOSS OF SEAL.

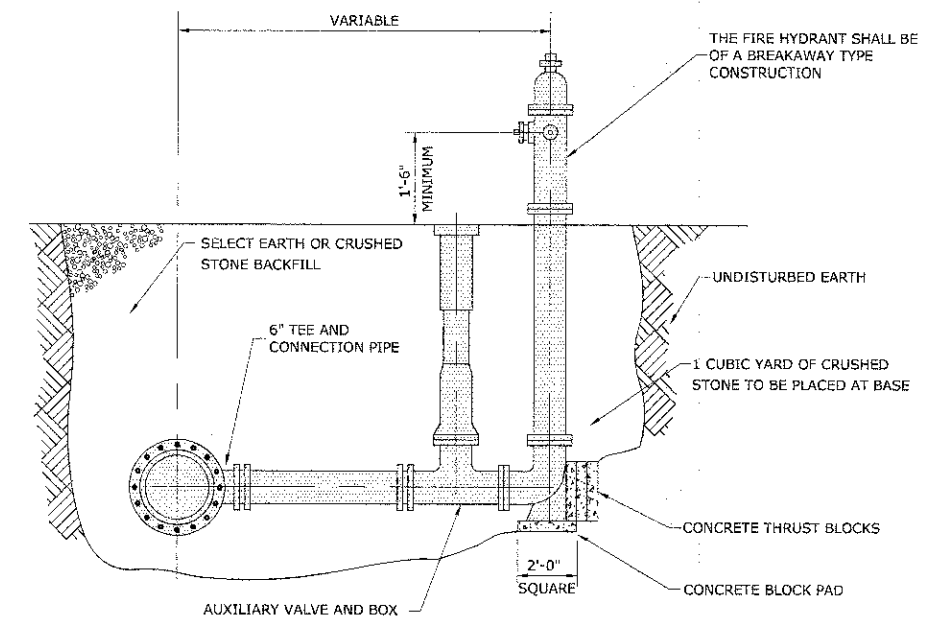
THE CONNECTION MUST SATISFY MWRD REQUIREMENTS.



**PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE**



**WATER SERVICE LINE RELOCATED**



**FIRE HYDRANT DETAIL**

Drawing file: W:\Projects\78017052 - ILM SHIELD RECONSTRUCTION PHASE A\37-39\_Drainage-Details.dwg  
 Date: 12-13-2012 10:00am

**HANCOCK ENGINEERING**

- ◆ Civil Engineers
- ◆ Municipal Consultants
- ◆ Established 1911

913 Roosevelt Road  
 Wheeling, Illinois 60154-2799  
 Phone: 708/965-0300  
 Fax: 708/965-1112

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES DETAILS**

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 38        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

E.H.E. PROJECT NO. 760-12-05201

**M.W.R.D.G.C. GENERAL NOTES**

1. THE MWRD SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK AT (708) 588-4055.
2. ELEVATION DATUM IS U.S.G.S.
3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM.
5. ALL PVC STORM SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3139. ALL PVC SEWER PIPE 12" IN DIAMETER OR LESS SHALL CONFORM TO ASTM D-2241 (WATER QUALITY PIPE). ALL PVC SEWER PIPE SHALL BE SDR 26.
6. ALL D.I.P. STORM, COMBINED AND SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM A-21.11. ALL D.I.P. SEWER PIPE SHALL CONFORM TO ASTM A-21.51. ALL D.I.P. SEWER PIPE SHALL BE CLASS 52.
7. ALL SANITARY, COMBINED, AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/4" TO 1" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES (4") NOR MORE THAN EIGHT INCHES (8"). MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE.
8. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
9. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
  - a) CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER TAP" MACHINE, OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  - b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. AFTER THE WYE OR TEE BRANCH IS INSERTED, CONCRETE SHALL BE PLACED OVER THE BROKEN AREA TO A MINIMUM THICKNESS OF 4" AND TO A DIMENSION OF 8" IN ALL DIRECTIONS.
  - c) USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING. USE "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD FIRMLY IN PLACE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
10. WHEREVER A SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE PRE-CAST REINFORCED CONCRETE.
12. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
13. ALL INLET AND OUTLET PIPES OF SANITARY SEWER MANHOLES AND OTHER UNDERGROUND STRUCTURES (AND IN COMBINED SEWER AREAS, ALSO ALL COMBINED/STORM SEWER MANHOLES, CATCH BASINS, INLETS, AND UNDERGROUND DETENTION STORAGE STRUCTURES) SHALL BE JOINED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTORS CONFORMING TO A.S.T.M. C-443 & C-923 WITH STAINLESS STEEL BANDS.
14. THE MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION IS 100 GAL/DAY/MILE/INCH DIA OF THE SEWER PIPE.

**DRAINAGE AND UTILITIES NOTES**

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED WITHIN THE CONSTRUCTION AREAS SHALL BE SUBJECT TO DISCUSSION AND CLARIFICATION AT A PRECONSTRUCTION MEETING.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

ALL COSTS INVOLVED IN CONNECTING OF PROPOSED STORM SEWERS AND STORM STRUCTURES TO EXISTING STORM SEWERS OR PROPOSED STORM SEWERS SHALL BE CONSIDERED INCLUDED IN THE COST OF PROPOSED ITEMS BEING CONSTRUCTED.

ALL PROPOSED WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION, DATED 1996, AND ALL REVISIONS THERETO.

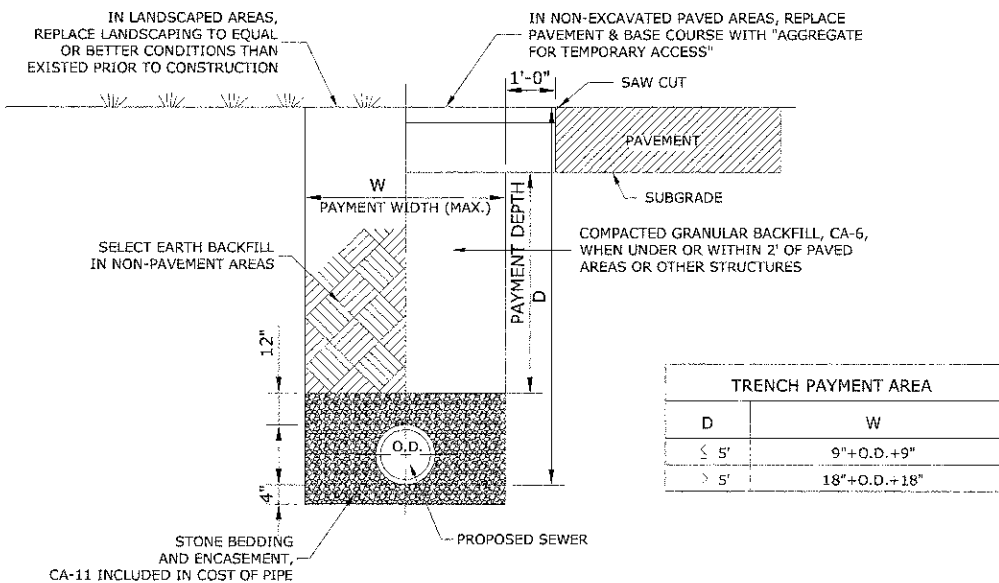
THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL.

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF MAYWOOD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF MAYWOOD PUBLIC WORKS YARD LOCATED AT 40 MADISON STREET.

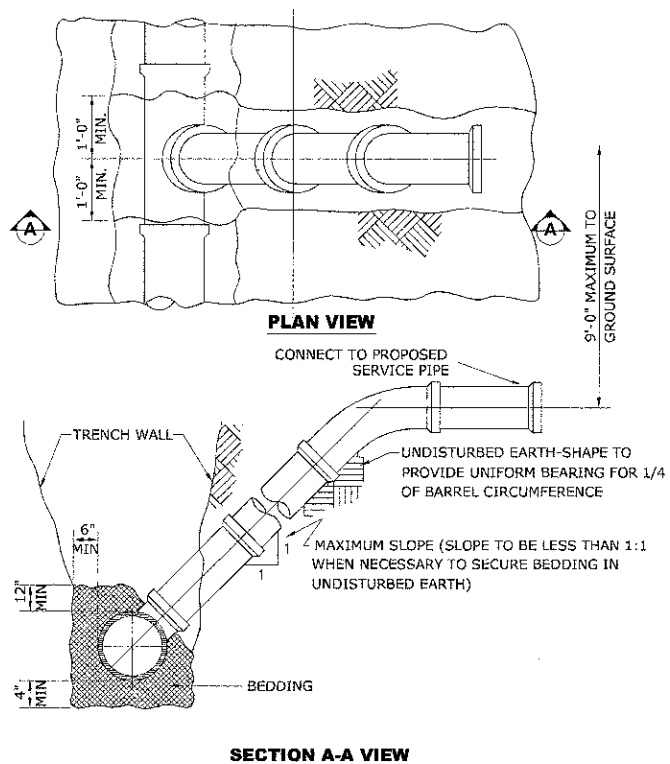
ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

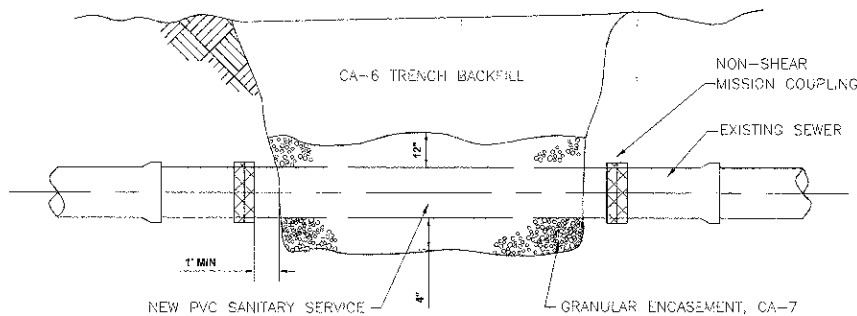


| TRENCH PAYMENT AREA |              |
|---------------------|--------------|
| D                   | W            |
| ≤ 5'                | 9"+O.D.+9"   |
| > 5'                | 18"+O.D.+18" |

**TYPICAL SEWER TRENCH DETAIL**



**TYPICAL RISER FOR SERVICE LATERAL**



**ADJUSTING SANITARY SEWERS, 8 INCH DIAMETER OR LESS**



◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

9933 Research Road  
Waukegan, Illinois 60054-2780  
Phone: 708/945-4200  
Fax: 708/945-4233

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES DETAILS**

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

|                       |                |                    |                  |           |
|-----------------------|----------------|--------------------|------------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK               | 66               | 39        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           | FED. AID PROJECT |           |

| JOB-SITE SIGNING CODES AND SIZES |      |                   | JOB-SITE SIGNING CODES AND SIZES |      |             | JOB-SITE SIGNING CODES AND SIZES |      |  |
|----------------------------------|------|-------------------|----------------------------------|------|-------------|----------------------------------|------|--|
| SYMBOL                           | SIGN | CODE & SIZE       | SYMBOL                           | SIGN | CODE & SIZE | SYMBOL                           | SIGN | CODE & SIZE  |
|                                  |      | R1-1<br>30"x30"   |                                  |      | 24"x24"     |                                  |      | 24"x24"  |
|                                  |      | R1-3<br>12"x6"    |                                  |      | 30"x30"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R2-1<br>24"x30"   |                                  |      | 24"x12"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R5-1<br>30"x30"   |                                  |      | 12"x24"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R6-2<br>24"x30"   |                                  |      | 18"x12"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R7-1<br>12"x18"   |                                  |      | 18"x12"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R1-3<br>12"x6"    |                                  |      | 18"x12"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | W11-8<br>30"x30"  |                                  |      | 24"x18"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | W10-1<br>18" Dia. |                                  |      | 24"x18"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      | R12-1<br>12"x18"  |                                  |      | 36"x12"     |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      |                   |                                  |      |             |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      |                   |                                  |      |             |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |
|                                  |      |                   |                                  |      |             |                                  |      | TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR |

**SIGNING NOTES:**

- DESIGN:** AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1975.
- CONSTRUCTION:** CURRENTS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AND APPLICABLE SPECIAL PROVISIONS.
- LOADING:** FOR 80 MPH WIND VELOCITY WITH 30% GUST FACTOR, NORMAL TO SIGN.
- SOIL PRESSURE:** MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF.
- MATERIALS:** POSTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.29, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS.
- HARDWARE FOR ATTACHING SIGN PANELS TO POSTS SHALL BE CADMIUM OR ZINC COATED STEEL, STAINLESS STEEL, OR ALUMINUM, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: CADMIUM OR ZINC COATED STEEL: BOLTS, NUTS, AND WASHERS: ASTM A165, TYPE NS. ZINC COATED IN ACCORDANCE WITH AASHTO M-232 OR ASTM A164, TYPE GS.**
- STAINLESS STEEL:** BOLTS: ASTM A193, CLASS I, GRADE B8, NUTS: ASTM A194, GRADE 8 OR 8F, WASHERS: ASTM A240, TYPE 302 OR 304.
- ALUMINUM:** BOLTS: ASTM B211 ALLOY 6061-T6 OR 2024-T4, NUTS: ASTM B211 ALLOY 6061-T6 OR 6262-T9, WASHERS: ASTM B209 ALCLAD 2024-T4.

**LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION         |
|--------|---------------------|
|        | METAL POST - TYPE A |

**NOTE:**

CONTRACTOR TO VERIFY VERBIAGE AND COLOR OF PROPOSED SIGNAGE WITH ENGINEER PRIOR TO ORDERING.

Drawing file: W:\Projects\1002082 - ELM STREET RECONSTRUCTION PHASE II\28-44.ELM\_Adecelo.dwg Date: 07/20/12 3:02pm



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

9933 Roosevelt Road  
 Westchester, Illinois 60154-1750  
 Phone: 708-965-0550  
 Fax: 708-965-1812

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

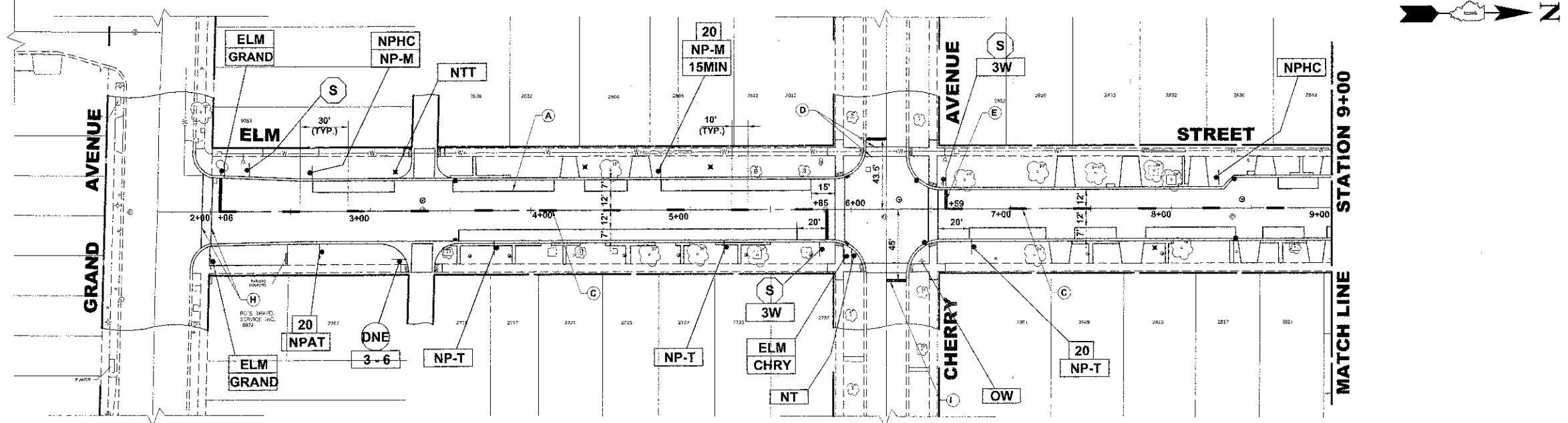
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING LEGENDS AND NOTES**

SCALE: NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. - TO STA. -

| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|---------------------------|--------------|-----------|
| 1260                  | 12-00087-00-PV | COOK                      | 56           | 40        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

E.H.E. PROJECT NO. 760-12-05201

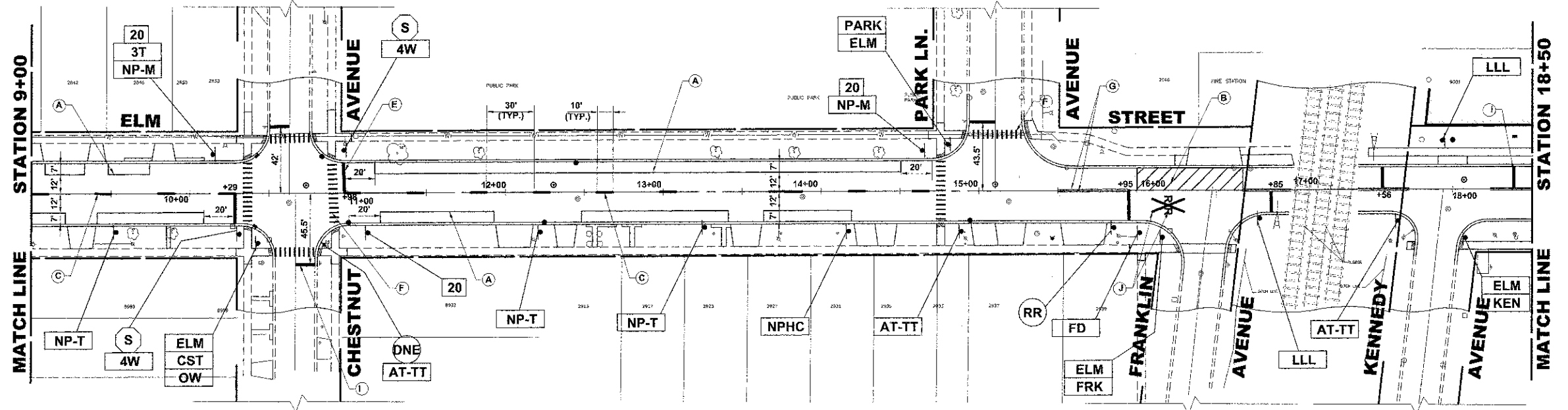


**PAVEMENT MARKINGS LEGENDS**

| ITEM DESCRIPTION  | SYMBOL |
|---|--------|
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PARKING LANE, WHITE                   | A      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", NO PARKING AREA, WHITE                | B      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", CROSS WALK, WHITE                     | D      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24", STOP BAR, WHITE                      | E      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12", SCHOOL CROSSWALK, WHITE              | F      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PAVEMENT CENTERLINE, DOUBLE, YELLOW   | G      |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSSWALK ON HMA, WHITE                 | H      |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR ON HMA, WHITE                 | I      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS & SYMBOLS, WHITE                       | J      |

**NOTE:**

- VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. AS DESIGNATED BY ENGINEER, THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN " OR "SIGN PANEL - TYPE 1" AND "METAL POST - TYPE 1" PAY ITEM)
- STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL SIGNAGE.



Drawing file: W:\Projects\1012092 - ELM STREET RECONSTRUCTION PHASE 1\20-44\_ELM\_40scale.dwg Dec. 07, 2012 - 3:02pm

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Roosevelt Road  
 Wheeling, Illinois 60154-2700  
 Phone: 708/865-0500  
 Fax: 708/865-1212

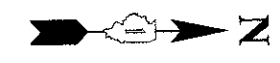
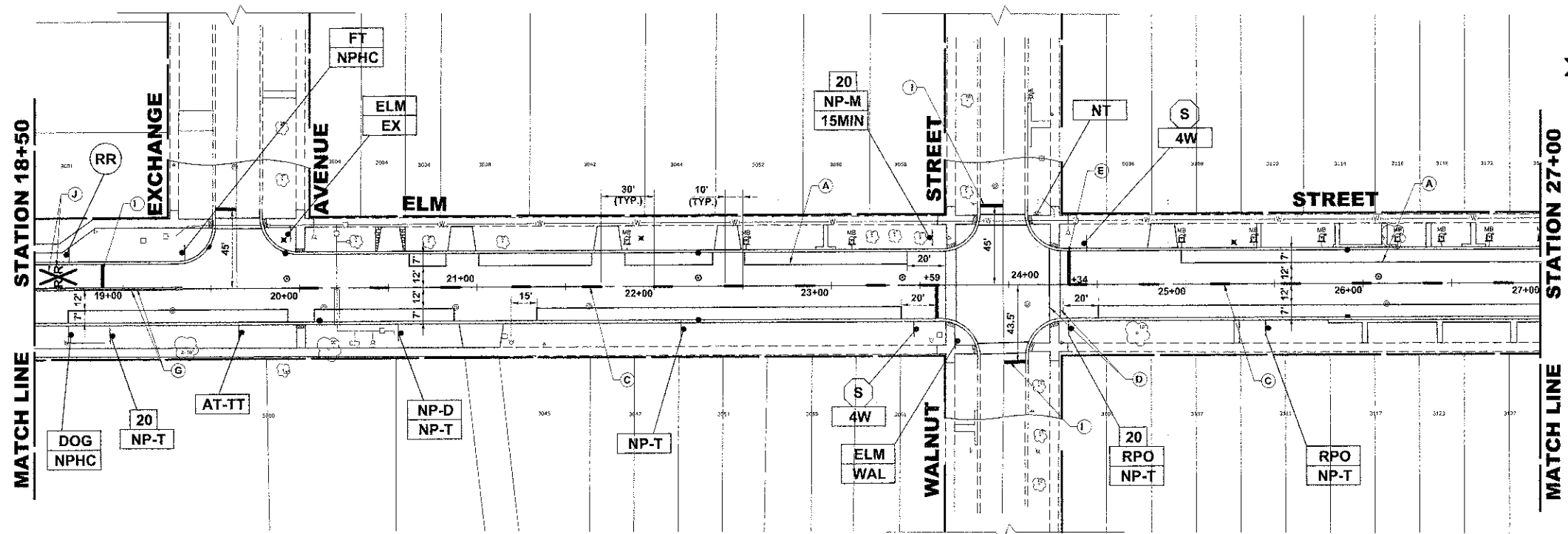
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|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN**  
 SCALE: 1" = 40'  
 SHEET NO. 1 OF 2 SHEETS  
 STA. TO STA.

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 41        |
| FIELD BOOK NO.: X     |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

E.H.E. PROJECT NO. 760-12-06201

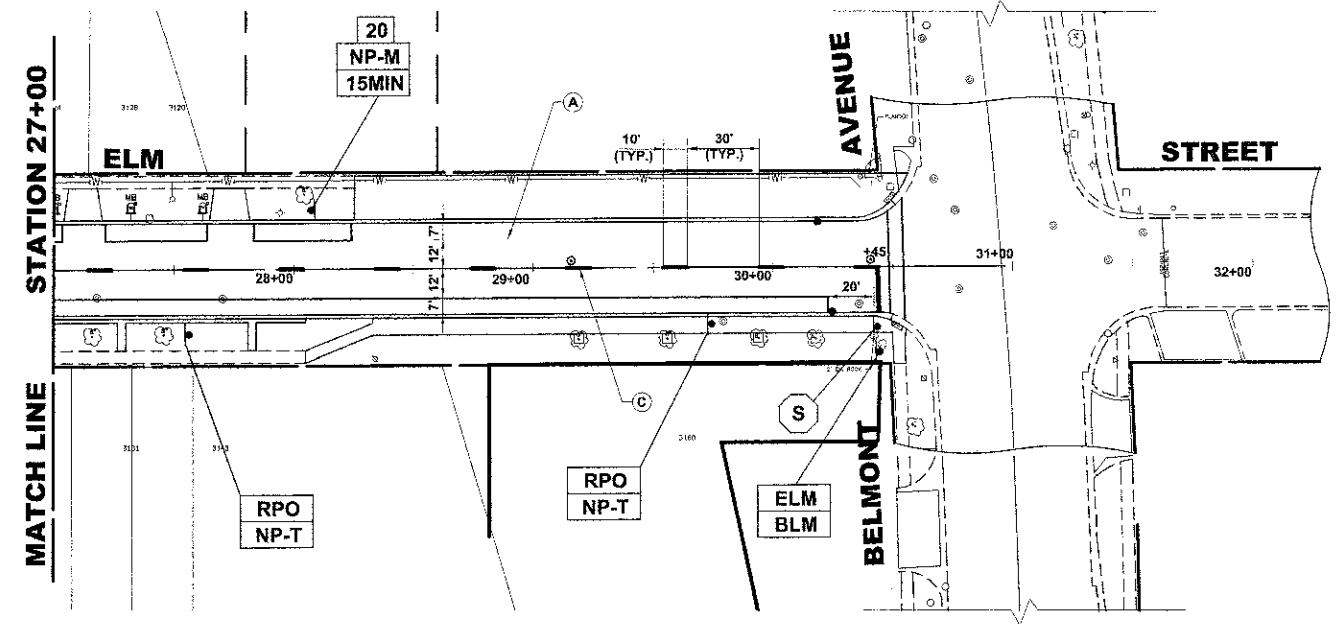


**NOTE:**

- VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. AS DESIGNATED BY ENGINEER, THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN " OR "SIGN PANEL - TYPE 1" AND "METAL POST - TYPE 1" PAY ITEM)
- STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL SIGNAGE.

**PAVEMENT MARKINGS LEGENDS**

| ITEM DESCRIPTION  | SYMBOL |
|---|--------|
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PARKING LANE, WHITE                   | A      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", NO PARKING AREA, WHITE                | B      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6", CROSS WALK, WHITE                     | D      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24", STOP BAR, WHITE                      | E      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12", SCHOOL CROSSWALK, WHITE              | F      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4", PAVEMENT CENTERLINE, DOUBLE, YELLOW   | G      |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSSWALK ON HMA, WHITE                 | H      |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR ON HMA, WHITE                 | I      |
| POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS & SYMBOLS, WHITE                       | J      |



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♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911  
5903 Riverwood Road  
 Westchester, Illinois 60154-2780  
 Phone: 708/665-0390  
 Fax: 708/665-1312

|            |              |           |
|------------|--------------|-----------|
| DESIGNED - | CB/SBC       | REVISED - |
| DRAWN -    | ECW, MK, DMM | REVISED - |
| CHECKED -  | MDL          | REVISED - |
| DATE -     | 12-7-12      | REVISED - |

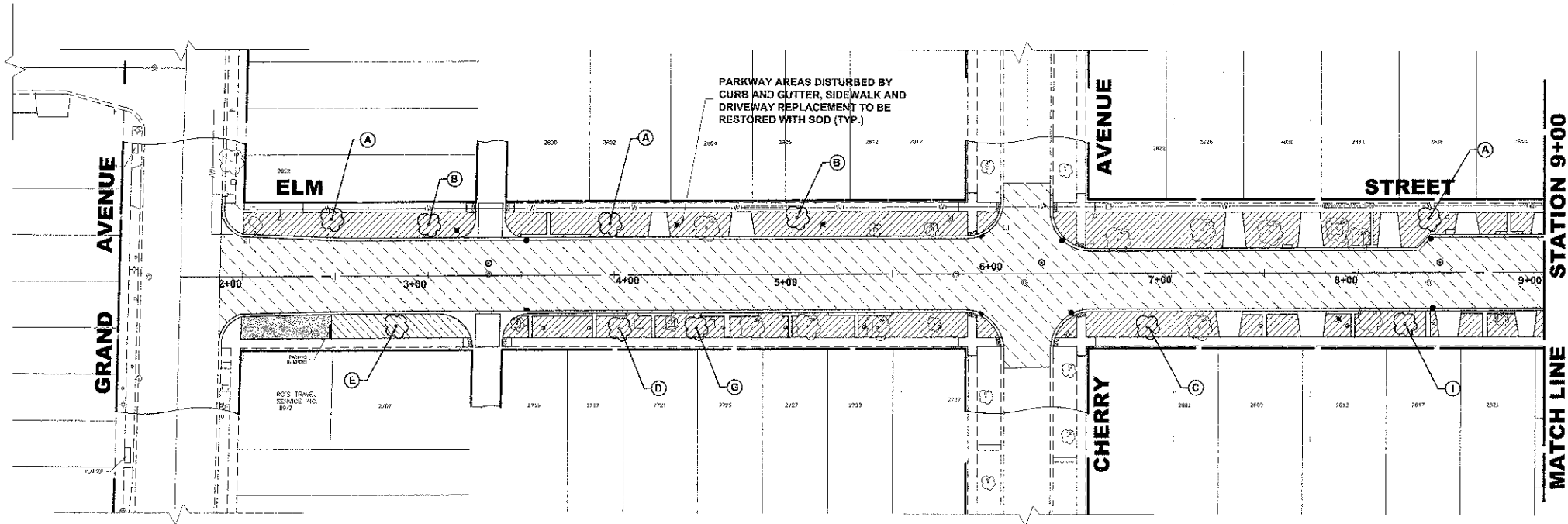
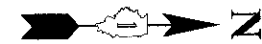
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING**  
**AND SIGNING PLAN**

SCALE: 1" = 40'      SHEET NO. 2 OF 2 SHEETS      STA. -      TO STA. -

|                       |               |                    |                  |           |
|-----------------------|---------------|--------------------|------------------|-----------|
| F.A.U. RTE.           | SECTION       | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 1260                  | 12-0097-00-PV | COOK               | 56               | 42        |
| FIELD BOOK NO. : X    |               | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |               | ILLINOIS           | FED. AID PROJECT |           |

E.H.E. PROJECT NO. 760-12-05201



**LANDSCAPING NOTES**

**SODDING:**

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS\*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDING AREAS).

**FERTILIZER NUTRIENTS\* FOR SODDING:**

USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:  
 60 LBS. NITROGEN FERTILIZER NUTRIENT  
 60 LBS. PHOSPHORUS FERTILIZER NUTRIENT  
 60 LBS. POTASSIUM FERTILIZER NUTRIENT  
 TOTAL: 180 LBS. PER ACRE

**4" TOP SOIL LAYER:**

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.

**MULCH:**

MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.

**PROPOSED TREES:**

ALL PROPOSED TREES SHALL FOLLOW THE FOLLOWING MINIMUM DISTANCES:

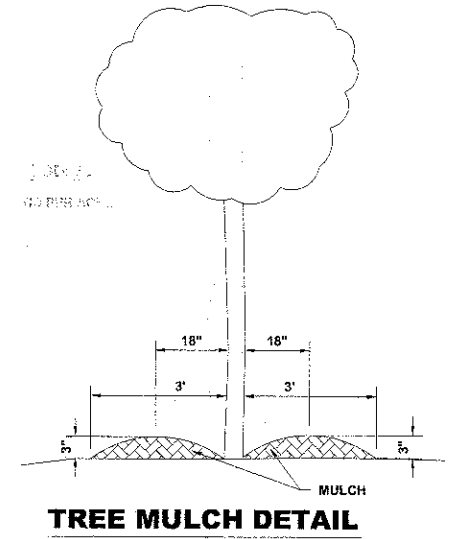
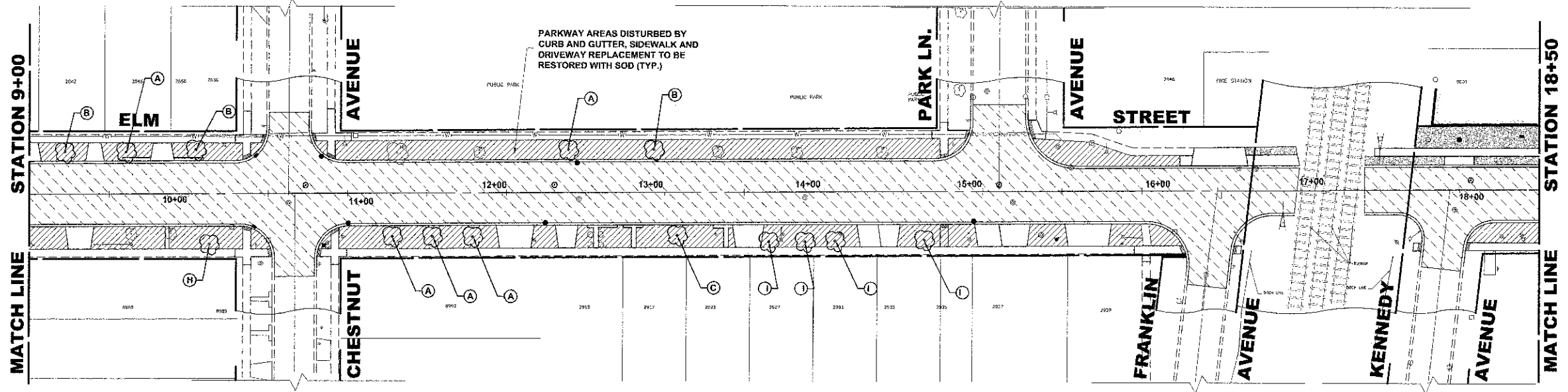
- \*THREE FEET (3') FROM NEAREST MAINLINE WALK
- \*THREE FEET (3') FROM NEAREST CARRIAGE WALK
- \*FOUR FEET (4') FROM NEAREST FACE OF CURB

**TREE REPLACEMENT**

| SYMBOL | COMMON NAME                    | SCIENTIFIC NAME                             | SIZE           | QUANTITY |
|--------|--------------------------------|---|----------------|----------|
| A      | FRONTIER ELM                   | ULMUS X FRONTIER                            | 3" CALIPER     | 12       |
| B      | MAGYAR ARISTOCRAT GINKO        | GINKGO BILOBA MAGYAR ARISTOCRAT             | 3" CALIPER     | 9        |
| C      | IMPERIAL THORNLESS HONEYLOCUST | GLEDITSIA TRIACANTHOS VAR. INERMIS IMPERIAL | 3" CALIPER     | 3        |
| D      | GREENSPIRE LITTLE LEAF LINDEN  | TILIA CORDATA                               | 3" CALIPER     | 2        |
| E      | COLUMNAR NORWAY MAPLE          | ACER PLATANOIDES COLUMNARE                  | 3" CALIPER     | 3        |
| G      | DAVID CRABAPPLE                | MALUS DAVID                                 | 3" CALIPER     | 6        |
| H      | WHITE OAK                      | QUERCUS ALBA                                | 2-1/2" CALIPER | 2        |
| I      | IVORY SILK JAPANESE TREE LILAC | SYRINGA RETICULATA IVORY SILK               | 3" CALIPER     | 6        |

**LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION                     |
|--------|---------------------------------|
|        | PROPOSED CONCRETE PAVEMENT AREA |
|        | PROPOSED CONCRETE AREA          |
|        | PROPOSED SODDED PARKWAY         |
|        | PROPOSED HOT-MIX ASPHALT AREA   |



Drawing file: W:\Projects\76012052 - ELM STREET RECONSTRUCTION PHASE II\DR-44\_CMA 40629a.dwg Dec 07, 2012 2:59pm



**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911  
 9933 Roosevelt Road  
 Westchester, Illinois 60154-2750  
 Phone: 708/665-4300  
 Fax: 708/665-1212

|                      |           |
|----------------------|-----------|
| DESIGNED - CB/SBC    | REVISED - |
| DRAWN - ECW, MK, DMM | REVISED - |
| CHECKED - MDL        | REVISED - |
| DATE - 12-7-12       | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

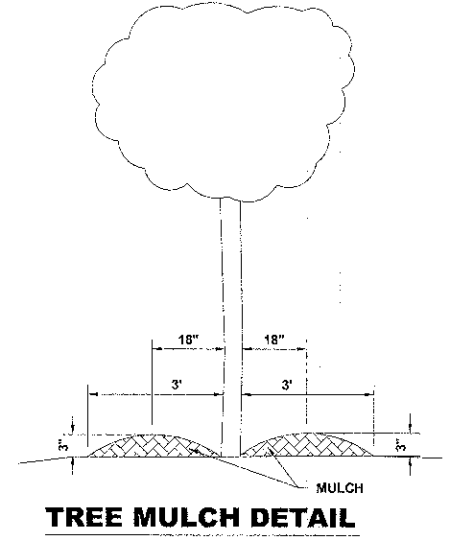
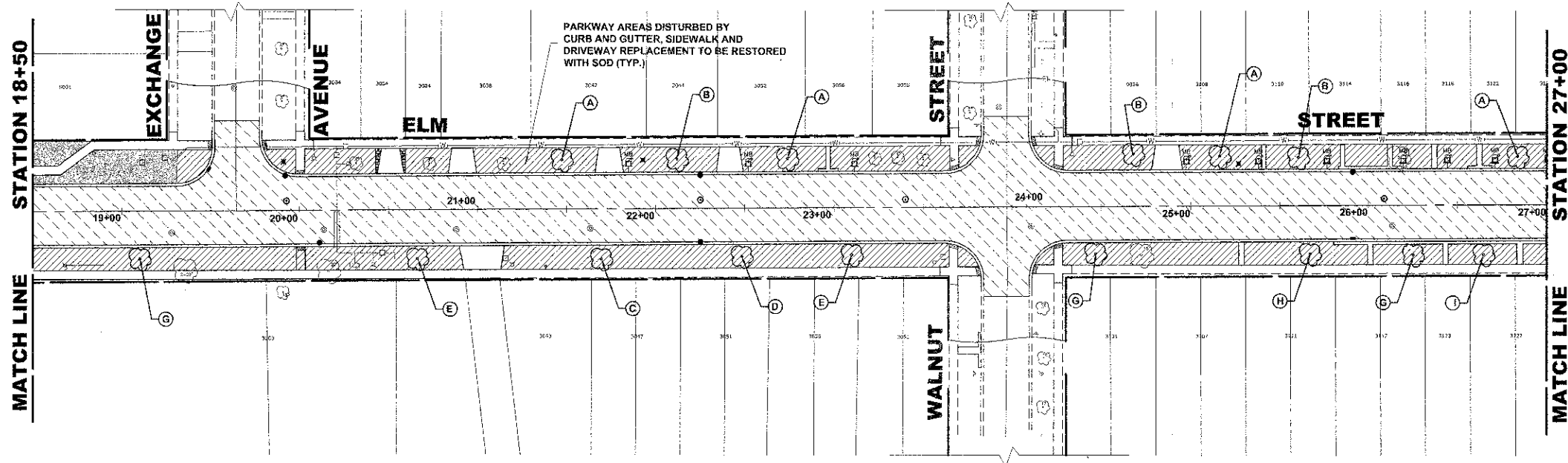
**ASPHALT & LANDSCAPING PLAN**

SCALE: 1" = 40' SHEET NO. 1 OF 2 SHEETS STA. - TO STA. -

|                                |                        |                    |                 |              |
|--------------------------------|------------------------|--------------------|-----------------|--------------|
| F.A.U. RTE. 1260               | SECTION 12-00097-00-PV | COUNTY COOK        | TOTAL SHEETS 56 | SHEET NO. 43 |
| FIELD BOOK NO. : X             |                        | CONTRACT NO. 63771 |                 |              |
| FED. ROAD DIST. NO. 1 ILLINOIS |                        | FED. AID PROJECT   |                 |              |

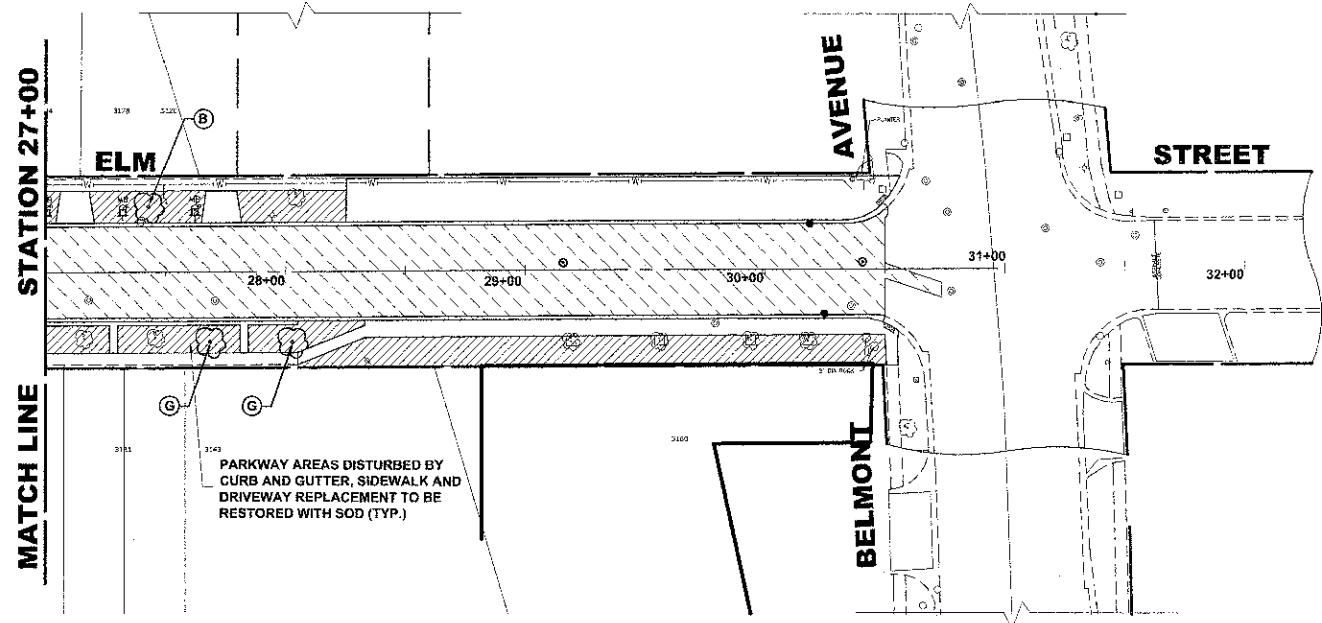
E.H.E. PROJECT NO. 760-12-05201





**LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION                     |
|--------|---------------------------------|
|        | PROPOSED CONCRETE PAVEMENT AREA |
|        | PROPOSED CONCRETE AREA          |
|        | PROPOSED SODDED PARKWAY         |
|        | PROPOSED HOT-MIX ASPHALT AREA   |



**LANDSCAPING NOTES**

**SODDING:**

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS\*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDING AREAS).

**4" TOP SOIL LAYER:**

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.

**MULCH:**

MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.

**FERTILIZER NUTRIENTS\* FOR SODDING:**

USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:

- 60 LBS. NITROGEN FERTILIZER NUTRIENT
- 60 LBS. PHOSPHORUS FERTILIZER NUTRIENT
- 60 LBS. POTASSIUM FERTILIZER NUTRIENT

TOTAL: 180 LBS. PER ACRE

**PROPOSED TREES:**

ALL PROPOSED TREES SHALL FOLLOW THE FOLLOWING MINIMUM DISTANCES:

- \*THREE FEET (3') FROM NEAREST MAINLINE WALK
- \*THREE FEET (3') FROM NEAREST CARRIAGE WALK
- \*FOUR FEET (4') FROM NEAREST FACE OF CURB

**TREE REPLACEMENT**

| SYMBOL | COMMON NAME                    | SCIENTIFIC NAME                             | SIZE           | QUANTITY |
|--------|--------------------------------|---|----------------|----------|
| A      | FRONTIER ELM                   | ULMUS X FRONTIER                            | 3" CALIPER     | 12       |
| B      | MAGYAR ARISTOCRAT GINKGO       | GINKGO BILOBA MAGYAR ARISTOCRAT             | 3" CALIPER     | 9        |
| C      | IMPERIAL THORNLESS HONEYLOCUST | GLEDITSIA TRIACANTHOS VAR. INERMIS IMPERIAL | 3" CALIPER     | 3        |
| D      | GREENSPIRE LITTLE LEAF LINDEN  | TILIA CORDATA                               | 3" CALIPER     | 2        |
| E      | COLUMNAR NORWAY MAPLE          | ACER PLATANOIDES COLUMNARE                  | 3" CALIPER     | 3        |
| G      | DAVID CRABAPPLE                | MALUS DAVID                                 | 3" CALIPER     | 6        |
| H      | WHITE OAK                      | QUERCUS ALBA                                | 2-1/2" CALIPER | 2        |
| I      | IVORY SILK JAPANESE TREE LILAC | SYRINGA RETICULATA IVORY SILK               | 3" CALIPER     | 6        |

Drawing file: W:\Projects\78012022 - ELM STREET RECONSTRUCTION PHASE II\28-14-ELM 4b.cad.dwg Date: 07/2012 2:59pm



♦ Civil Engineers  
 ♦ Municipal Consultants  
 ♦ Established 1911

8933 Eisenhower Blvd  
 Westchester, Illinois 60154-2780  
 Phone: 708.965.4300  
 Fax: 708.965.4323

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

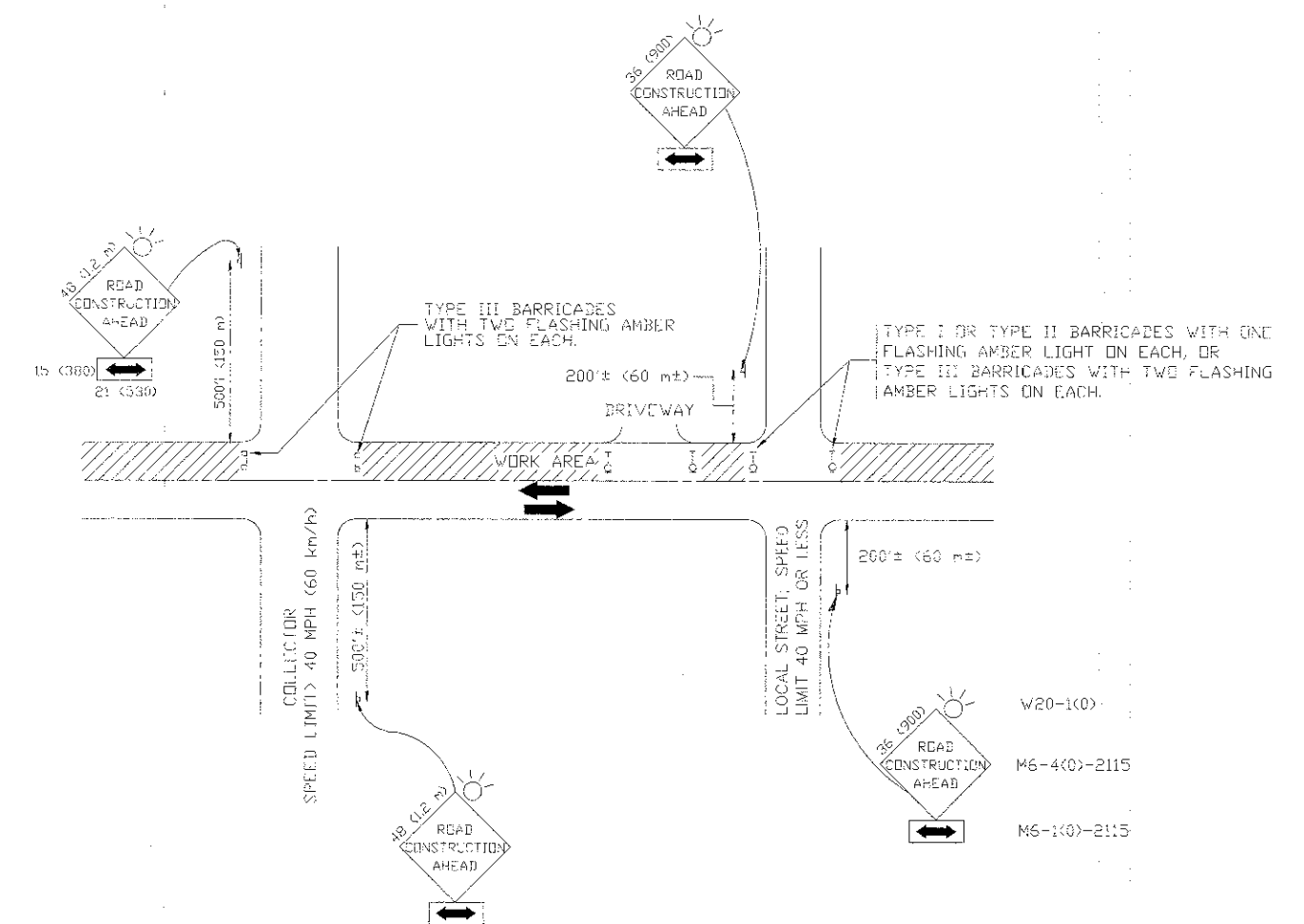
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ASPHALT & LANDSCAPING PLAN**

SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

|                       |                    |                  |              |           |
|-----------------------|--------------------|------------------|--------------|-----------|
| F.A.I. RTE.           | SECTION            | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV     | COOK             | 56           | 44        |
| FIELD BOOK NO. : X    | CONTRACT NO. 63771 |                  |              |           |
| FED. ROAD DIST. NO. 1 | ILLINOIS           | FED. AID PROJECT |              |           |

E.H.E. PROJECT NO. 760-12-05201



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- D. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- B. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

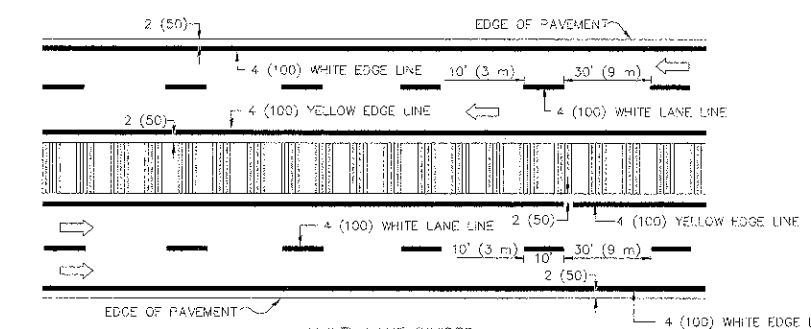
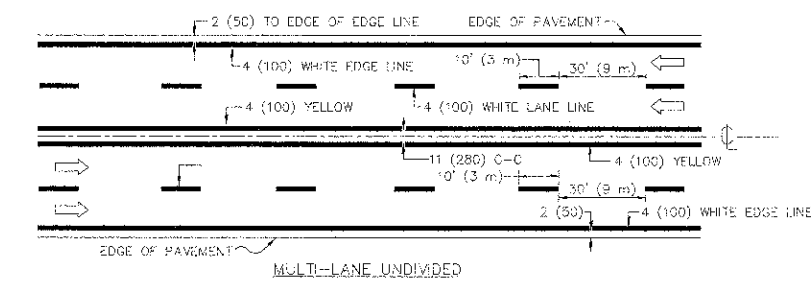
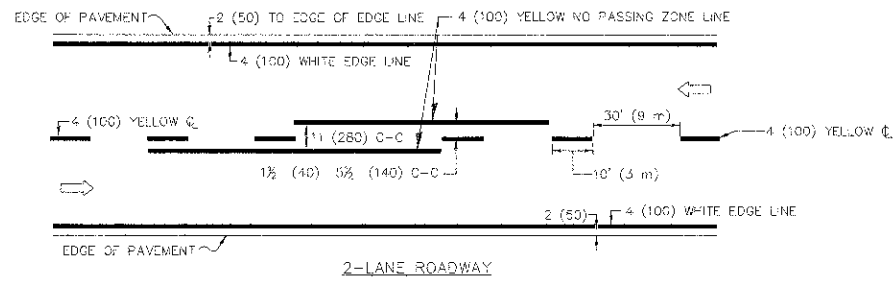
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|              |                 |                                  |
|--------------|-----------------|----------------------------------|
| USER NAME =  | DESIGNED -- LHA | REVISED -- J. OBERLE 10-18-95    |
|              | DRAWN --        | REVISED -- A. HOUSEH 03-06-96    |
| PLOT SCALE = | CHECKED --      | REVISED -- A. HOUSEH 10-15-96    |
| PLOT DATE =  | DATE -- 05-89   | REVISED -- T. RAMMACHER 01-06-00 |

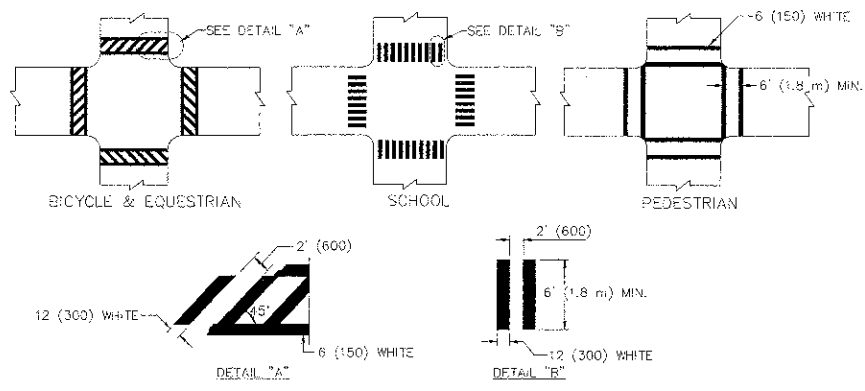
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

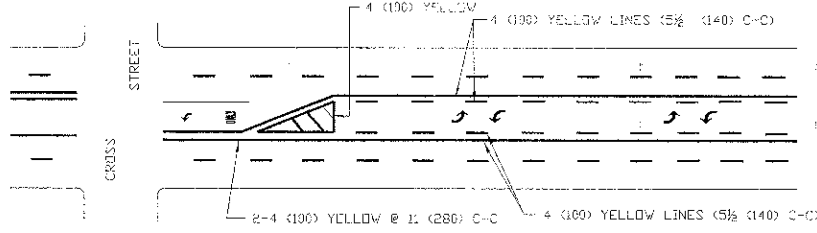
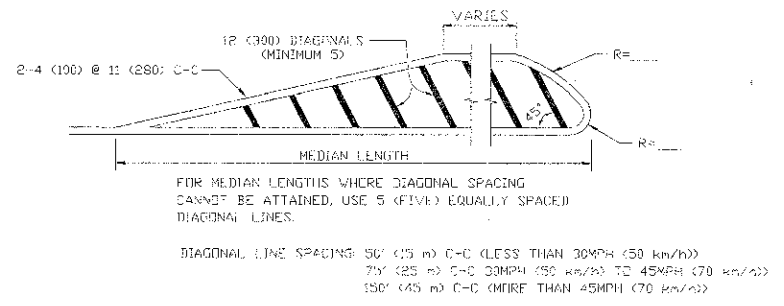
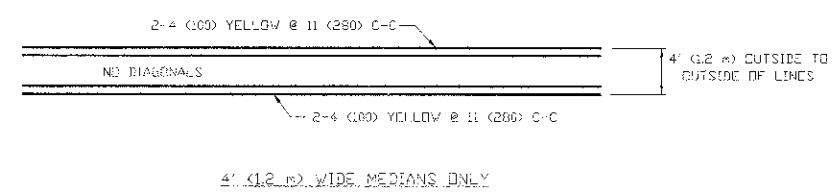
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| SCALE: NONE                                     | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | F.A.J. RTE. 12-00097-00-PV | SECTION | COUNTY COOK        | TOTAL SHEETS 56 | SHEET NO. 45 |
|   |                         |              | TC-10                      |         | CONTRACT NO. 63771 |                 |              |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                         |              |                            |         |                    |                 |              |



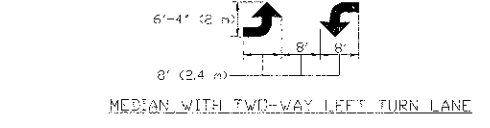
TYPICAL LANE AND EDGE LINE MARKING



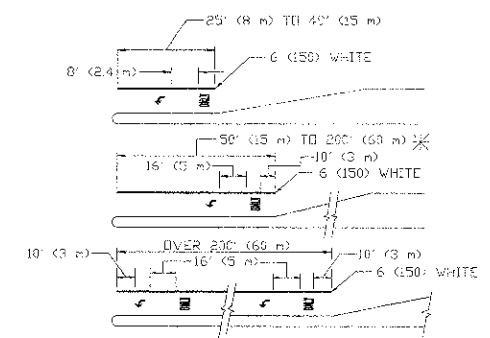
TYPICAL CROSSWALK MARKING



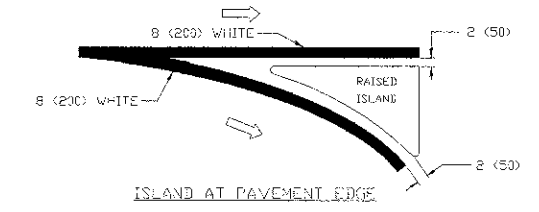
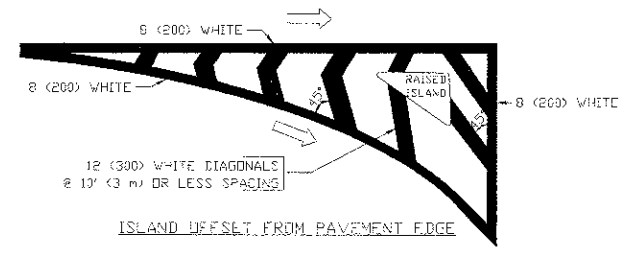
TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING   | WIDTH OF LINE  | PATTERN             | COLOR   | SPACING / REMARKS   |
|---|--|---------------------|---|---|
| CENTERLINE ON 2 LANE PAVEMENT                                   | 4 (100)  | SKIP-DASH           | YELLOW  | 10' (3 m) LINE WITH 30' (9 m) SPACE   |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT                     | 2 @ 4 (100)  | SOLID               | YELLOW  | 11 (280) C-C  |
| NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS     | 4 (100)  | SOLID               | YELLOW  | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE<br>11 (280) C-C<br>OMIT SKIP-DASH CENTERLINE BETWEEN  |
| LANE LINES  | 5 (125) ON FREEWAYS  | SKIP-DASH           | WHITE   | 10' (3 m) LINE WITH 30' (9 m) SPACE   |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED  | SKIP-DASH           | SAME AS LINE BEING EXTENDED                       | 2' (600) LINE WITH 6' (1.8 m) SPACE   |
| EDGE LINES  | 4 (100)  | SOLID               | YELLOW-LEFT<br>WHITE-RIGHT                        | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB   |
| TURN LANE MARKINGS  | 6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))                        | SOLID               | WHITE   | SEE TYPICAL TURN LANE MARKING DETAIL.   |
| TWO WAY LEFT TURN MARKING                                       | 8 @ 4 (100) EACH DIRECTION   | SKIP-DASH AND SOLID | YELLOW  | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE  |
|   | 8' (2.4m) LEFT ARROW   | IN PAIRS            | WHITE   | SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL.   |
| CROSSWALK LINES (PEDESTRIAN)                                    | 2 @ 6 (150)  | SOLID               | WHITE   | NOT LESS THAN 6' (1.8 m) APART  |
| A. DIAGONALS (BIKE & EQUESTRIAN)                                | 12 (300) @ 45°   | SOLID               | WHITE   | 2' (600) APART  |
| B. LONGITUDINAL BARS (SCHOOL)                                   | 12 (300) @ 90°   | SOLID               | WHITE   | SEE TYPICAL CROSSWALK MARKING DETAILS.  |
| STOP LINES  | 24 (600)   | SOLID               | WHITE   | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE. |
| PAINTED MEDIANS   | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°                                    | SOLID               | YELLOW; TWO WAY TRAFFIC<br>WHITE; ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING.   |
| CORE MARKING AND CHANNELIZING LINES                             | 9 (200) WITH 12 (300) DIAGONALS @ 45°  | SOLID               | WHITE   | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))<br>30' (9 m) C-C (OVER 45MPH (70 km/h))             |
| RAILROAD CROSSING   | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID               | WHITE   | SEE STATE STANDARD 780001<br>AREA 2 FT.<br>"X"=2.5 SQ. FT. (0.23 m²) EACH<br>"X"=54.0 SQ. FT. (5.0 m²)  |
| SHOULDER DIAGONALS  | 12 (300) @ 45°   | SOLID               | WHITE - RIGHT<br>YELLOW - LEFT                    | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>150' (45 m) C-C (OVER 45MPH (70 km/h))                      |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

Drawing file: W:\Projects\78012002 - ELM STREET RECONSTRUCTION PHASE II\6-7013.dwg Dec 07, 2012 3:15pm

Drawing file: W:\Projects\10012062 - F.M. STREET RECONSTRUCTION PHASE IV-7-TC-21\_2013.dwg Date: 10/20/12 4:13pm

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

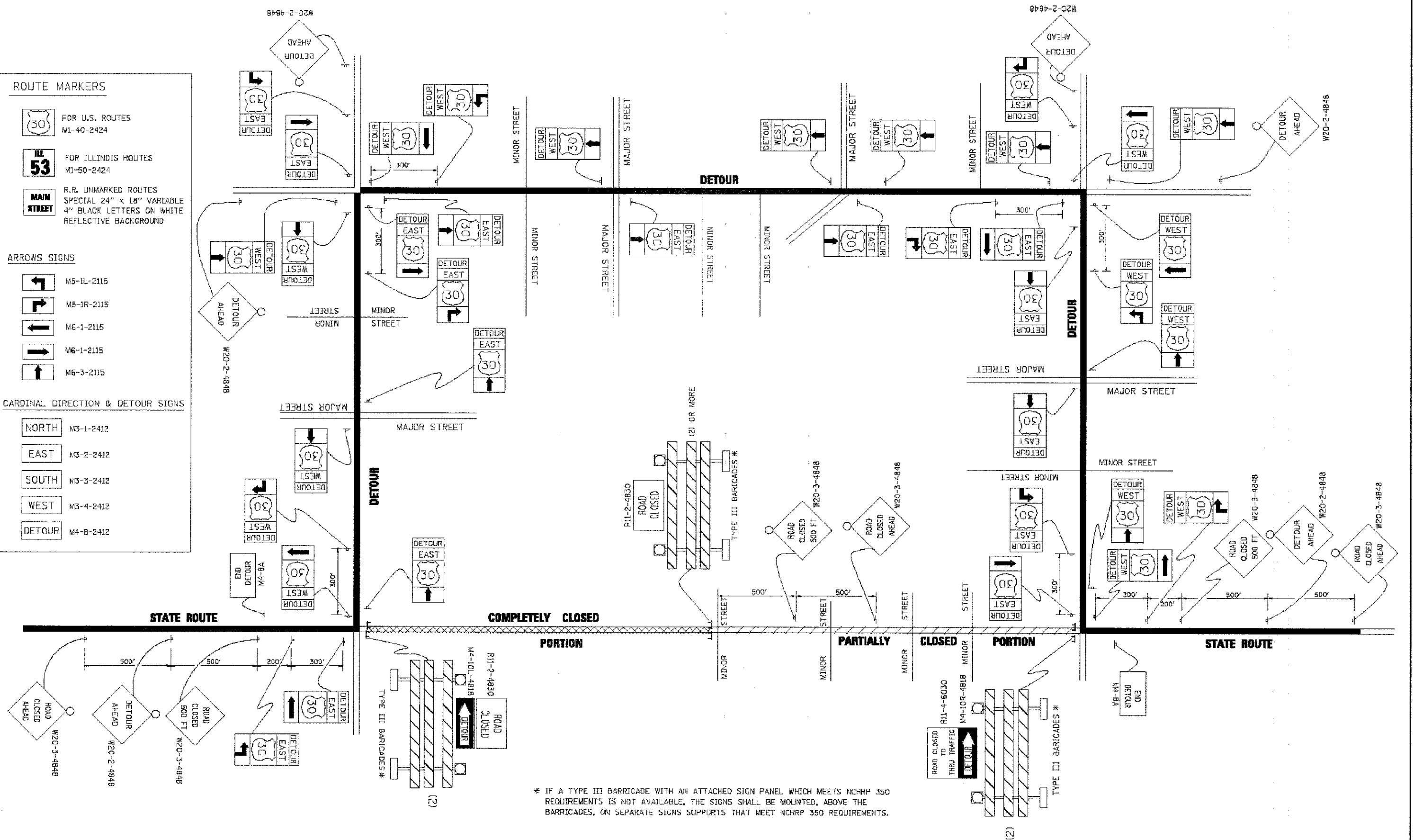
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-B-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

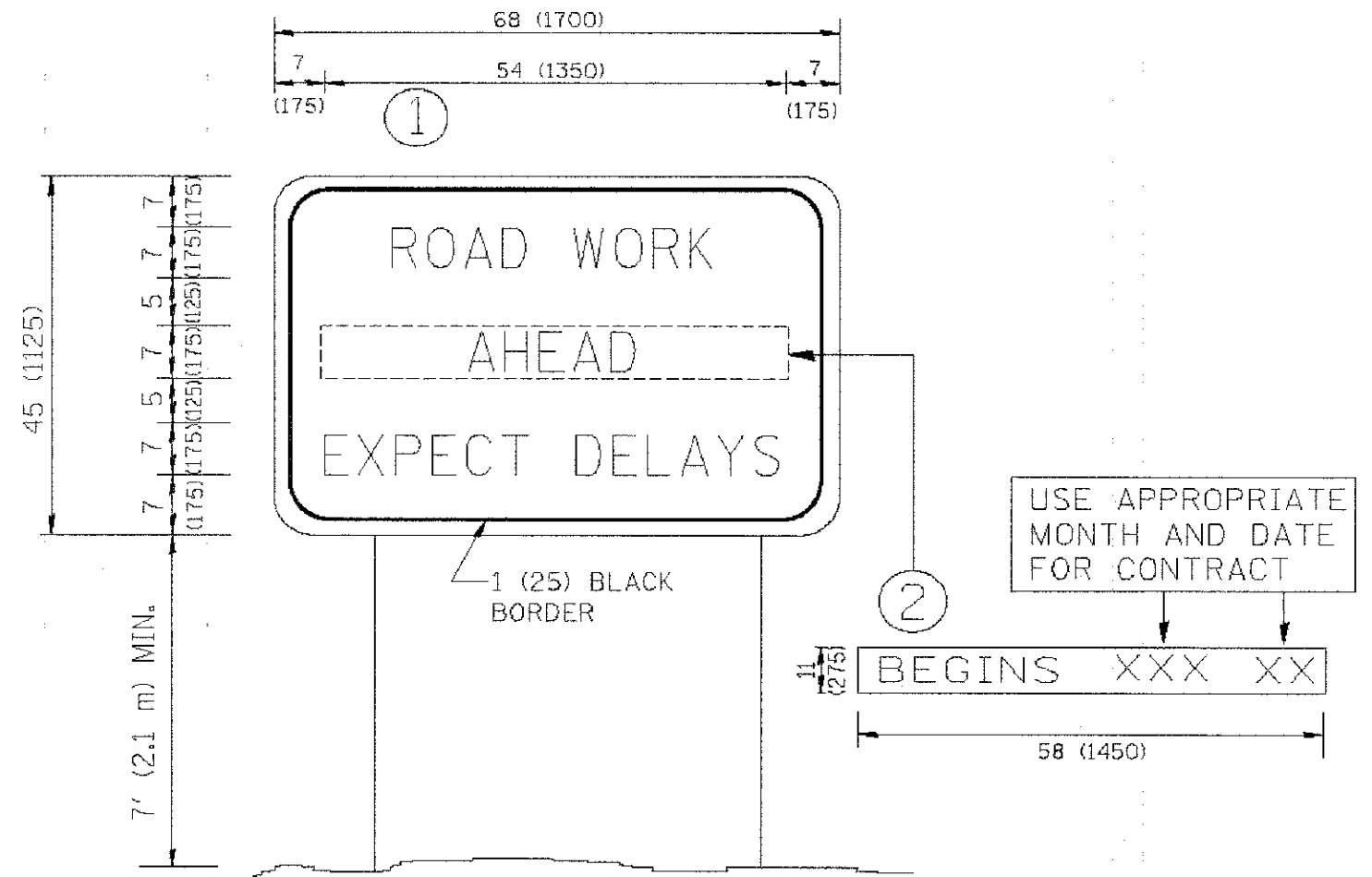
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|             |                    | DRAWN -    | REVISED - R. BORO 09-14-09 |
|             |                    | CHECKED -  | REVISED -                  |
|             |                    | DATE -     | REVISED -                  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A. RTE.                                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 1200  | 12-00097-00-PV | COOK               | 56           | 47        |
| TC-21   |                | CONTRACT NO. 63771 |              |           |
| REG. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

|                                       |                       |            |                                 |
|---------------------------------------|-----------------------|------------|---------------------------------|
| FILE NAME =<br>W:\data\22c34\to22.dgn | USER NAME = gnglsmrbt | DESIGNED - | REVISED - R. MIRS 09-16-97      |
|                                       |                       | DRAWN -    | REVISED - R. MIRS 12-11-97      |
|                                       |                       | CHECKED -  | REVISED - T. RAMMAGHER 02-02-99 |
|                                       |                       | DATE -     | REVISED - C. JUCIUS 01-31-07    |
| PLOT SCALE = 88.888 1/8 IN.           |                       |            |                                 |
| PLOT DATE = 1/4/2008                  |                       |            |                                 |

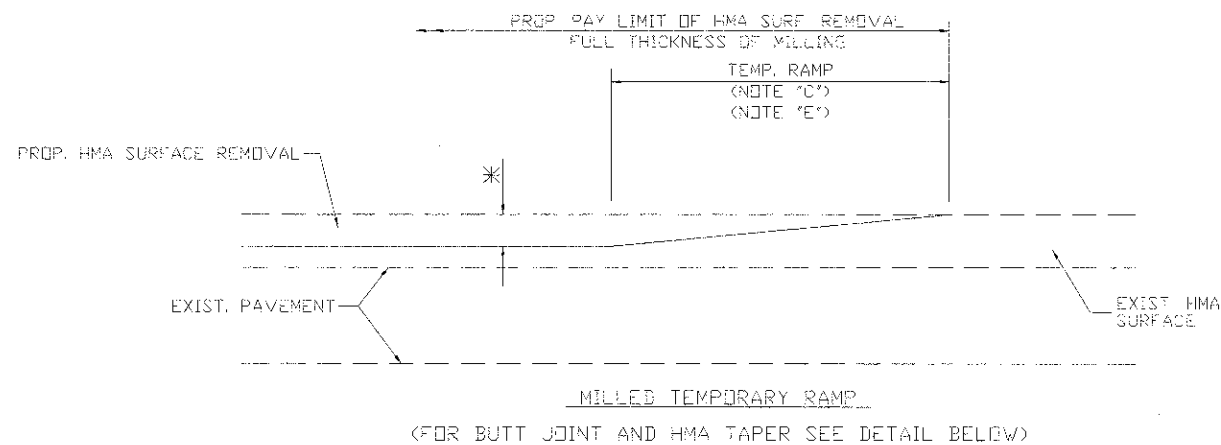
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

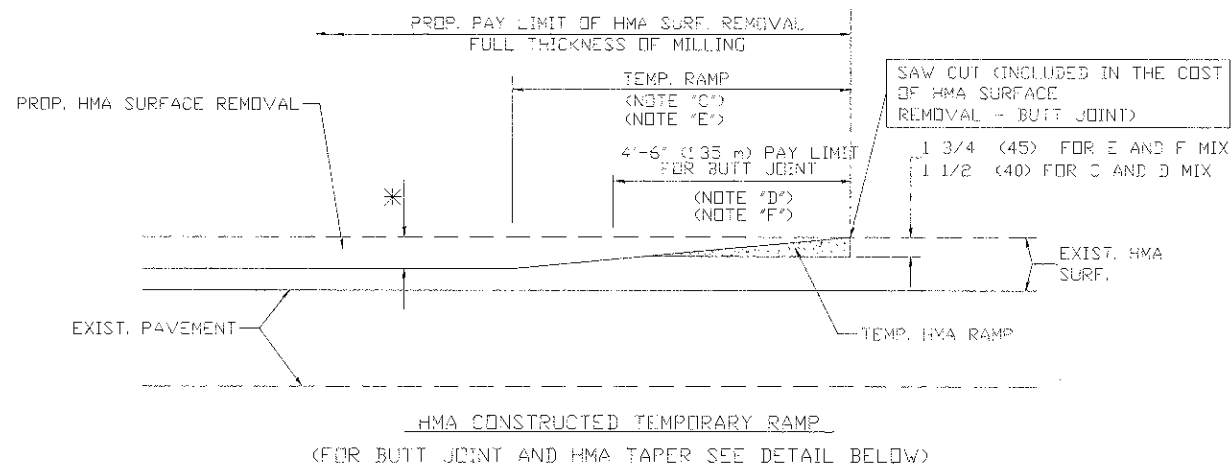
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |                |        |                    |           |
|---|----------------|--------|--------------------|-----------|
| F.A. RTE.                                       | SECTION        | COUNTY | TOTAL SHEETS       | SHEET NO. |
| ---   | 12-00097-00-PV | COOK   | 56                 | 48        |
| TC-22   |                |        | CONTRACT NO. 63771 |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |        |                    |           |

Drawing file: W:\Projects\76012082 - ELM STREET RECONSTRUCTION PHASE II-9-1032.dwg  
 Dec 07, 2012 - 3:41pm

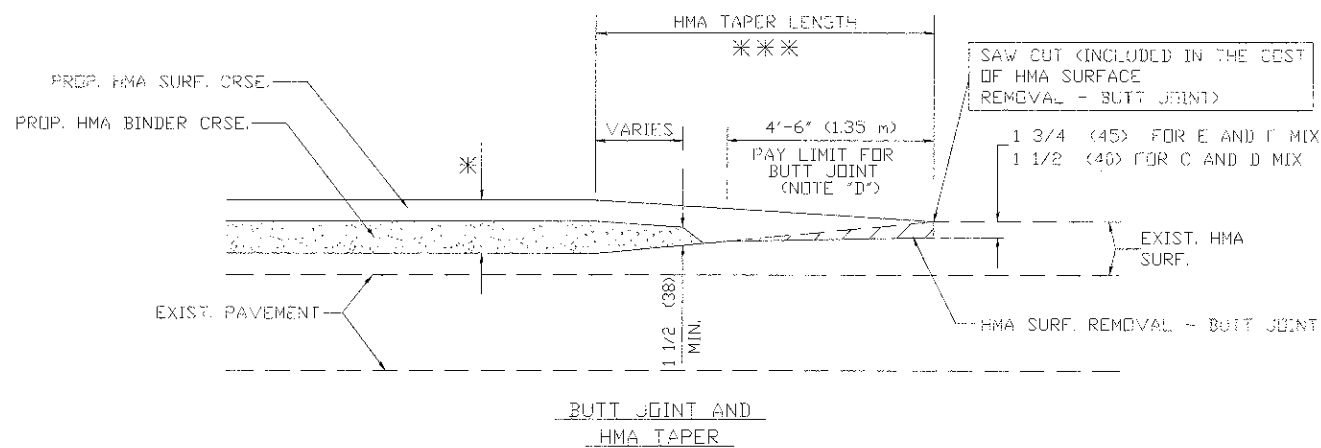


**OPTION 1**

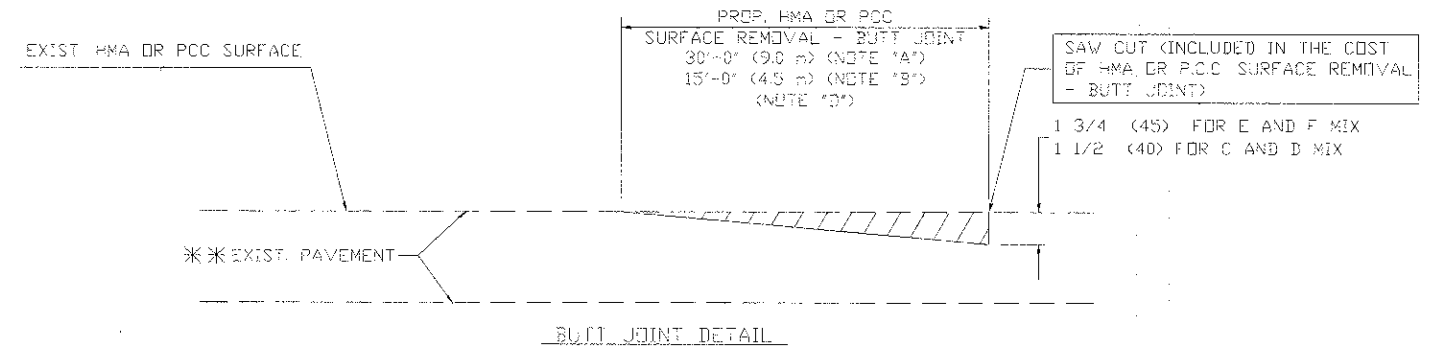


**OPTION 2**

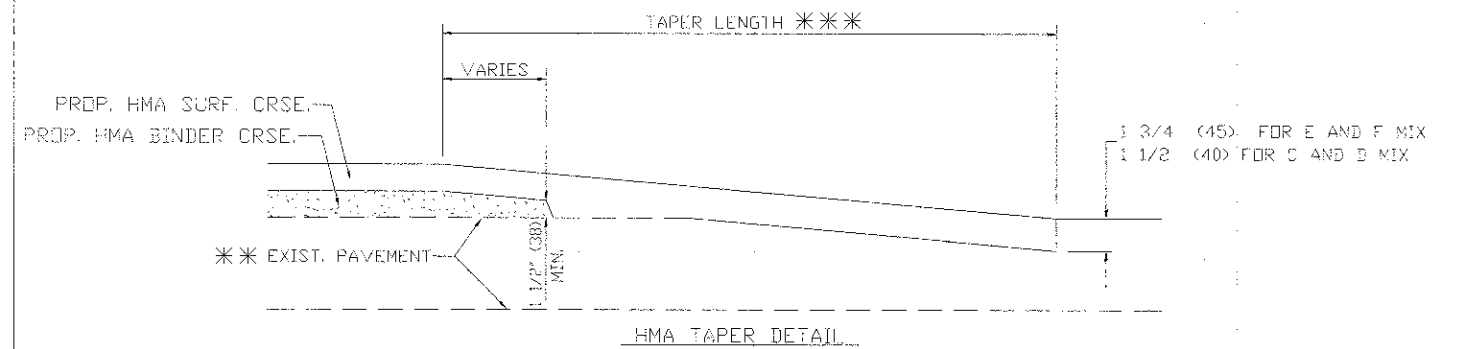
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

|              |                       |                             |
|--------------|-----------------------|-----------------------------|
| USER NAME =  | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94  |
| PLOT SCALE = | DRAWN -               | REVISED - A. ABBAS 03-21-97 |
| PLOT DATE =  | CHECKED -             | REVISED - M. GOMEZ 04-06-01 |
|              | DATE - 06-13-90       | REVISED - R. BORO 01-01-07  |

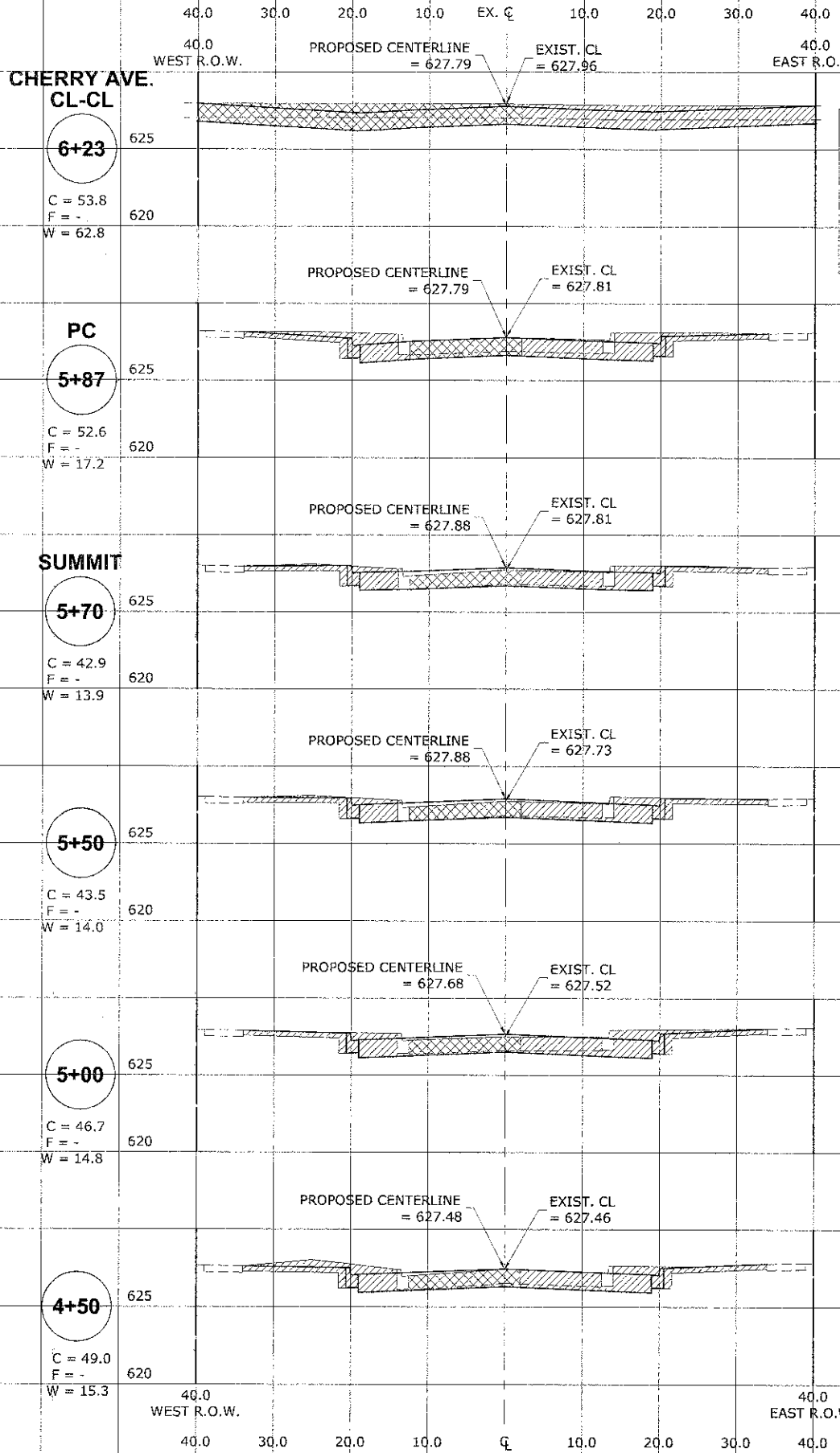
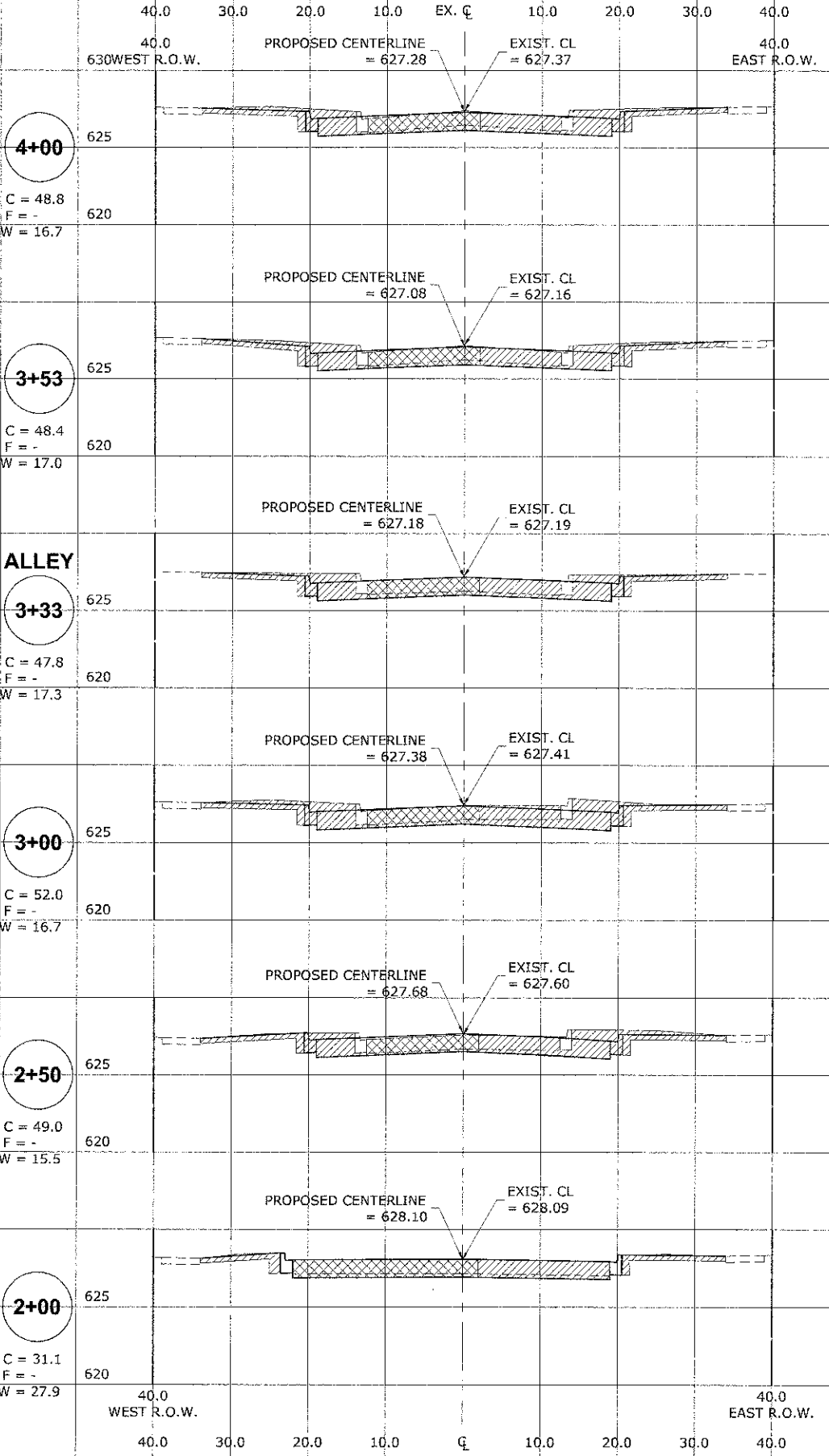
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
 HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|   |                |                    |              |           |
|---|----------------|--------------------|--------------|-----------|
| F.A.L. R.T.C.                                   | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|   | 12-00097-00-PV | COOK               | 56           | 49        |
| <b>BD400-05 (BD-32)</b>                         |                | CONTRACT NO. 63771 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |                    |              |           |

Drawing: \\s:\Projects\76012002 - ELM STREET - MICROCONSTRUCTION - PHASE 4\Drawings\ELM\Sheet\_1.dwg Date: 07/2012 - 3:47pm



**CROSS SECTION LEGEND**

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

W = WASTE (SQ. FT.)

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911

9933 Roosevelt Road  
 Waukegan, Illinois 60154-3780  
 Phone: 708/945-0180  
 Fax: 708/945-1312

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

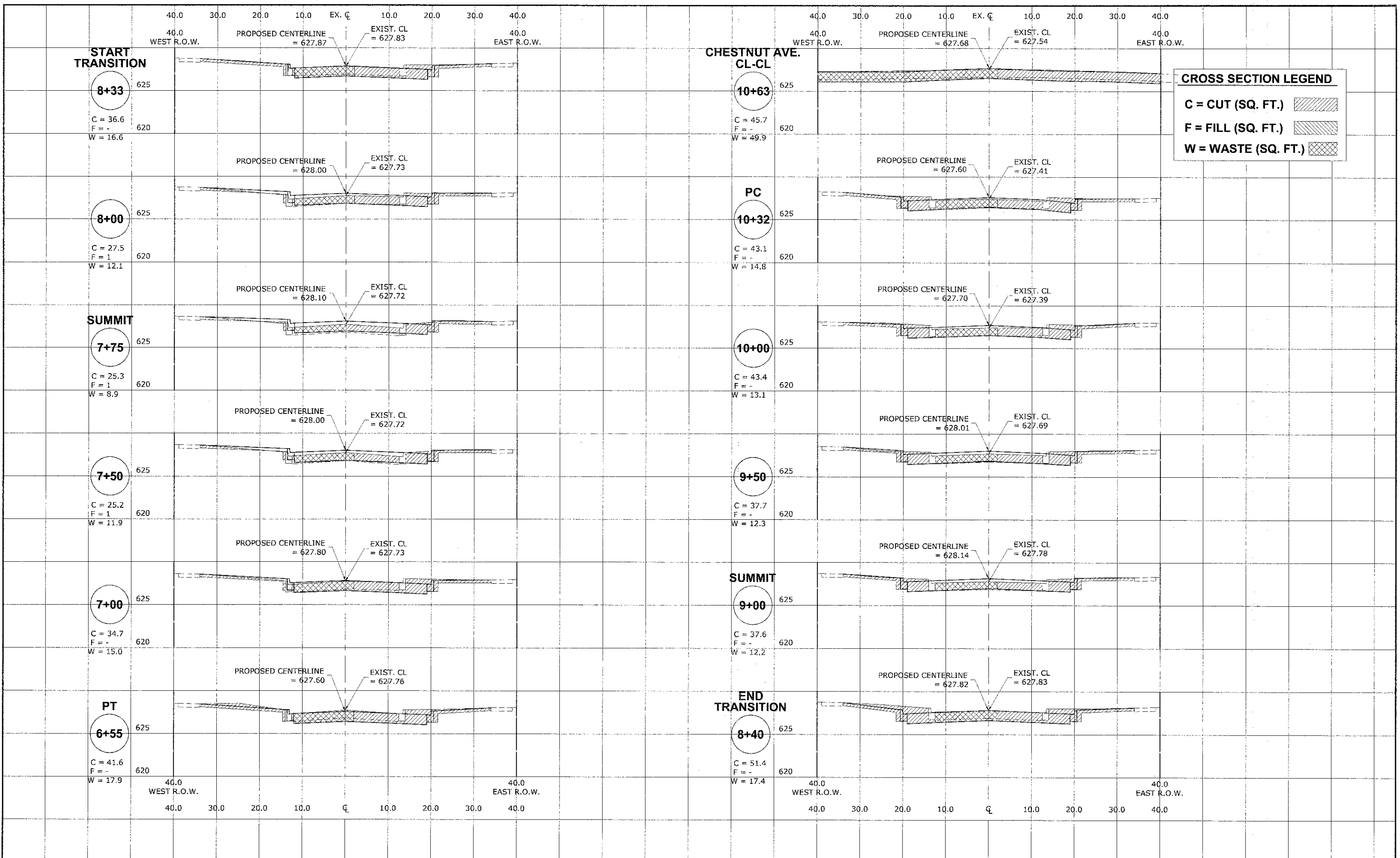
**STATION CROSS SECTIONS  
 ELM STREET**

SCALE: 1"=10'H 1"=5'V SHEET NO. 1 OF 7 SHEETS STA. - TO STA. -

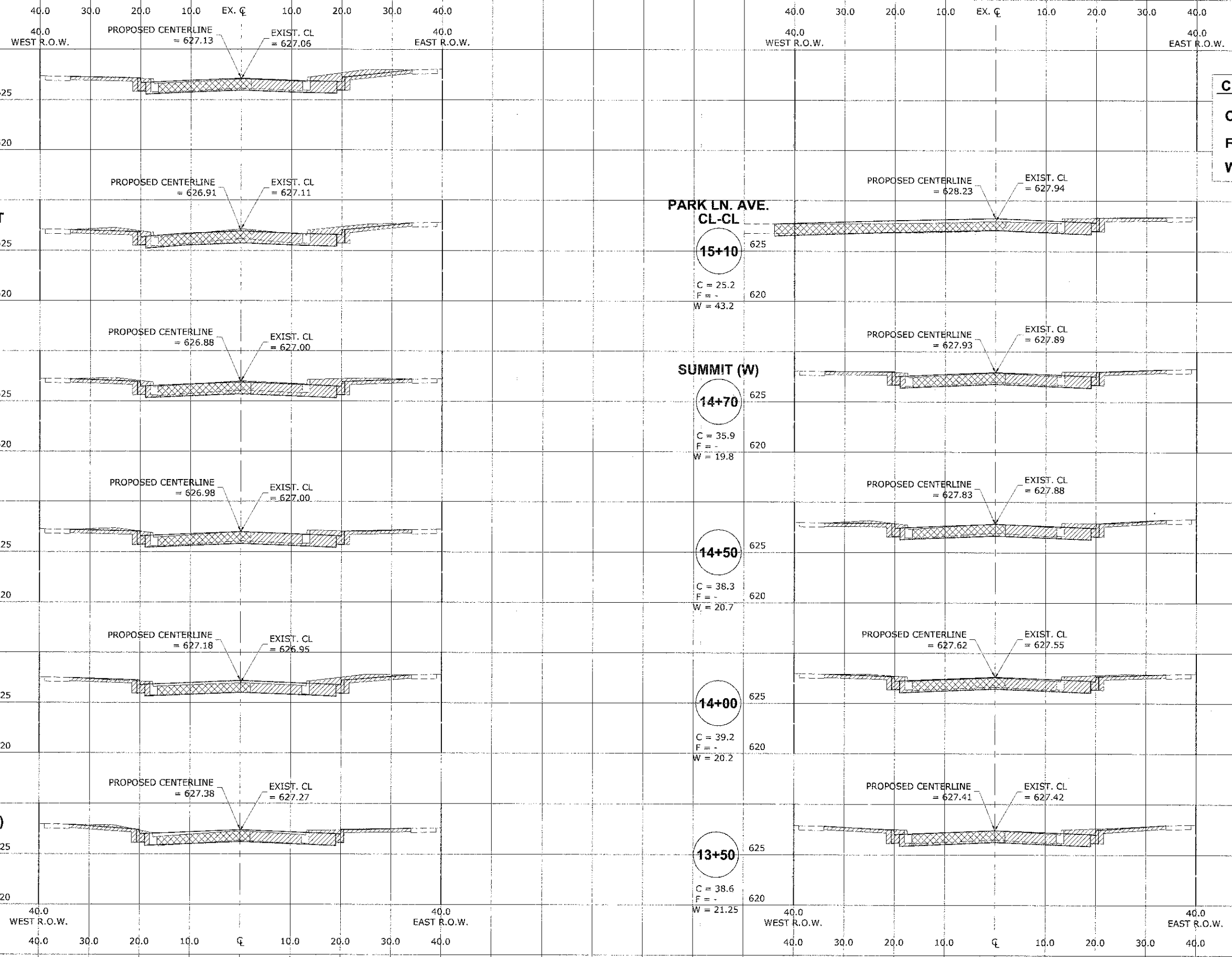
|                       |                |                    |                  |           |
|-----------------------|----------------|--------------------|------------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK               | 56               | 50        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           | FED. AID PROJECT |           |



Drawn by: W:\Projects\78012002 - ELM STREET RECONSTRUCTION PHASE II\Drawings\ELM\Sheet\_L14.dwg Date: 07/20/12 - 3:47pm



Drawing No. W:\Projects\76012092 - ELM STREET RECONSTRUCTION PHASE 1\Assets\ELM\Sheet\_ELM.dwg Enc 07, 2012 - 3:47pm



**CROSS SECTION LEGEND**

**C = CUT (SQ. FT.)**

**F = FILL (SQ. FT.)**

**W = WASTE (SQ. FT.)**

**HANCOCK ENGINEERING**

◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

5933 Roosevelt Road  
Waukegan, Illinois 60154-2780  
Phone: 766/865-8390  
Fax: 766/865-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS  
ELM STREET**

SCALE: 1"=10'H 1"=5' V

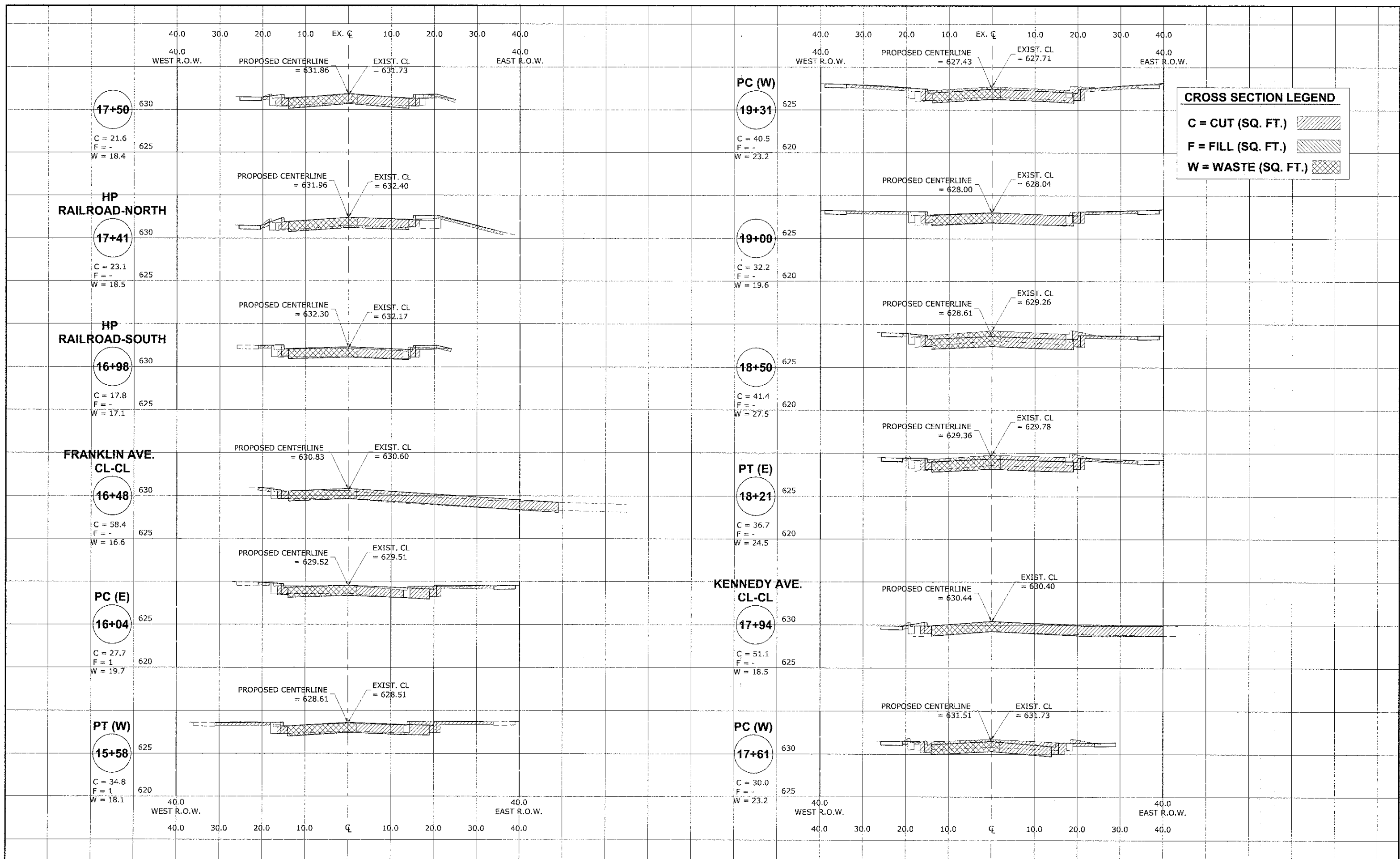
SHEET NO. 3 OF 7 SHEETS

STA. - TO STA. -

|                       |                |                    |              |                  |
|-----------------------|----------------|--------------------|--------------|------------------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO.        |
| 1280                  | 12-00097-00-PV | COOK               | 56           | 52               |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |              |                  |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           |              | FED. AID PROJECT |

E.H.E. PROJECT NO. 760-12-05201

Drawing file: W:\Projects\760-2002 - ELM STREET RECONSTRUCTION.Plot\Views\ELM\Xsect\_ELM.dwg Date: 07/2012 - 3:47pm



**CROSS SECTION LEGEND**

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

W = WASTE (SQ. FT.)

**HANCOCK ENGINEERING**

- Civil Engineers
- Municipal Consultants
- Established 1911

9933 Riverfront Plaza  
Westchester, Illinois 60154-2780  
Phone: 708/965-8500  
Fax: 708/965-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

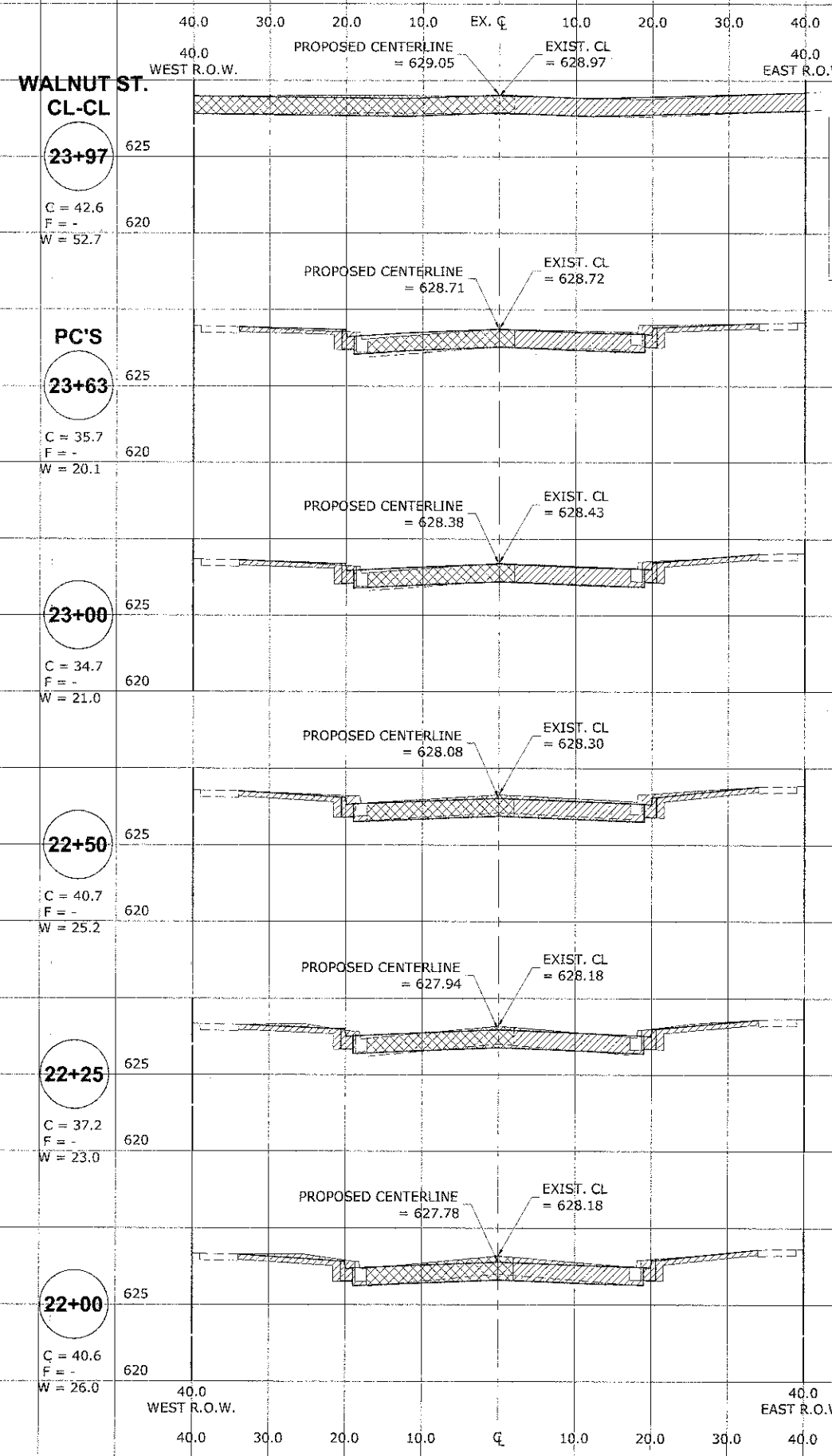
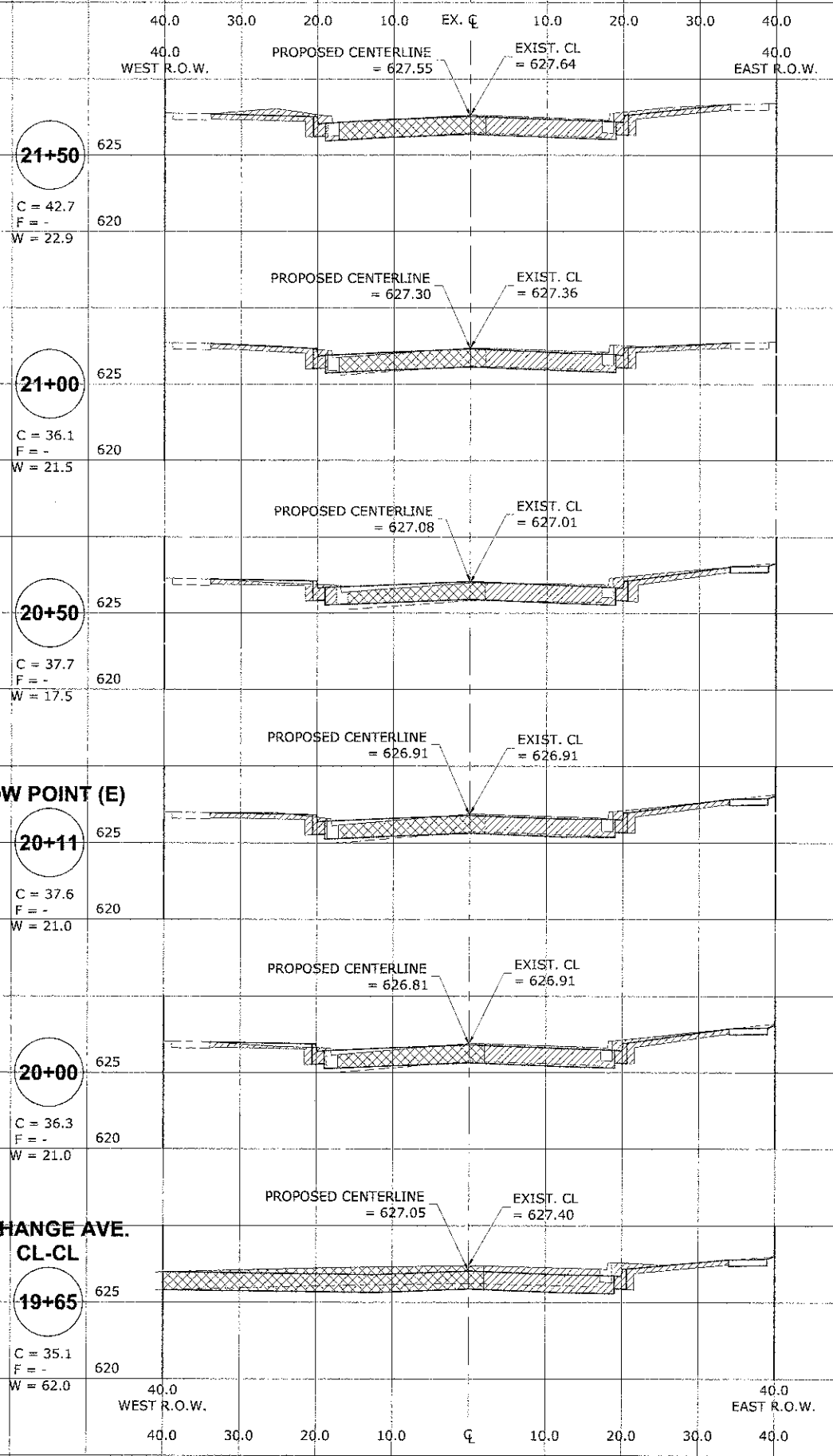
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS  
ELM STREET**

SCALE: 1"=10'H 1"=5'V    SHEET NO. 4 OF 7 SHEETS    STA. -    TO STA. -

|   |                    |        |              |           |
|---|--------------------|--------|--------------|-----------|
| F.A.D. RTE.                                     | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1260  | 12-00097-00-PV     | COOK   | 56           | 53        |
| FIELD BOOK NO. : X                              | CONTRACT NO. 63771 |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                    |        |              |           |

Drawing file: W:\Projects\76012012 - ELM STREET RECONSTRUCTION PHASE II\Ssects.dwg Date: 07/2012 - 3:47pm



**CROSS SECTION LEGEND**

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

W = WASTE (SQ. FT.)

**HANCOCK ENGINEERING**

- Civil Engineers
- Municipal Consultants
- Established 1911

9933 Rowlett Road  
Wheaton, Illinois 60154-1780  
Phone: 708/965-0500  
Fax: 708/965-1112

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS  
ELM STREET**

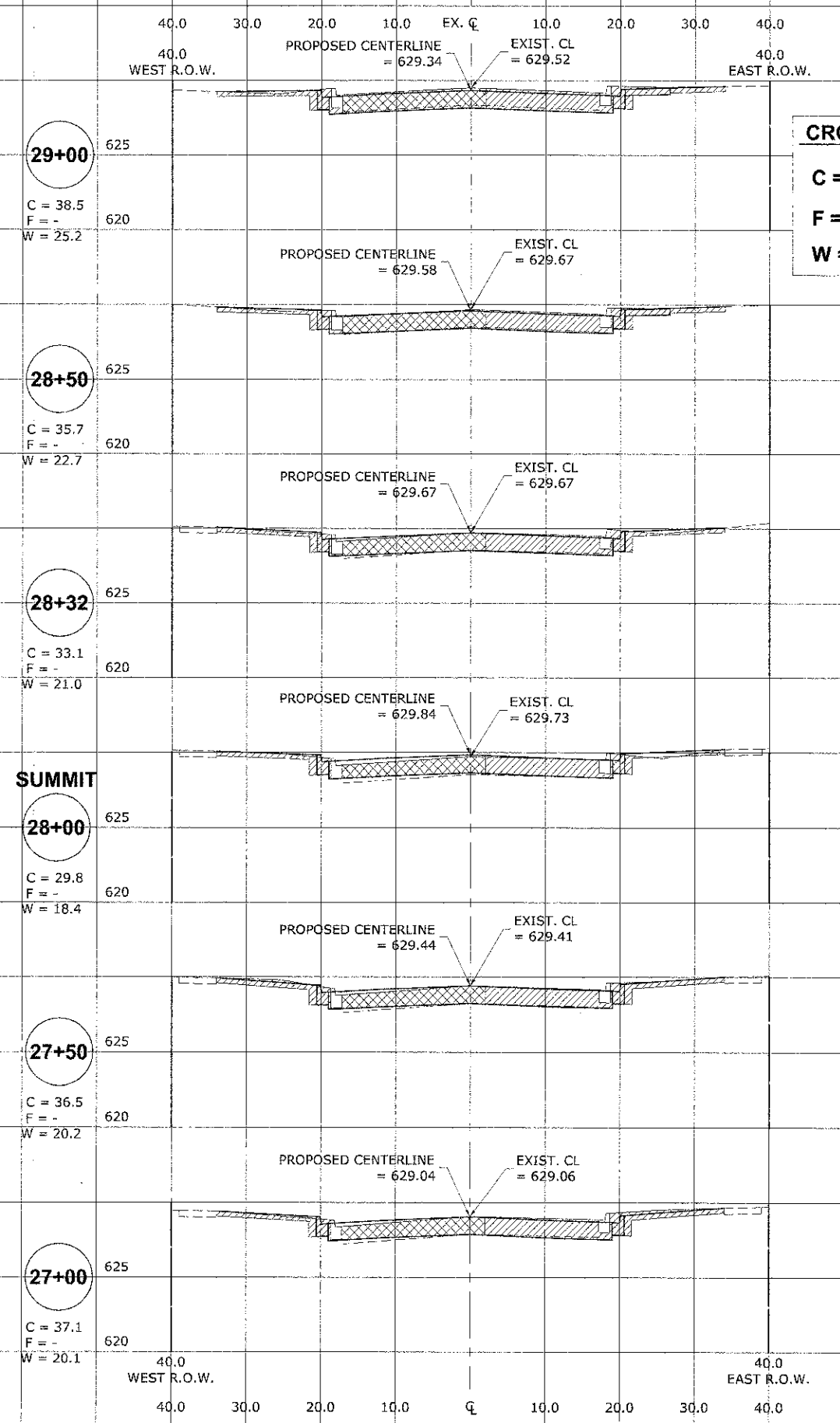
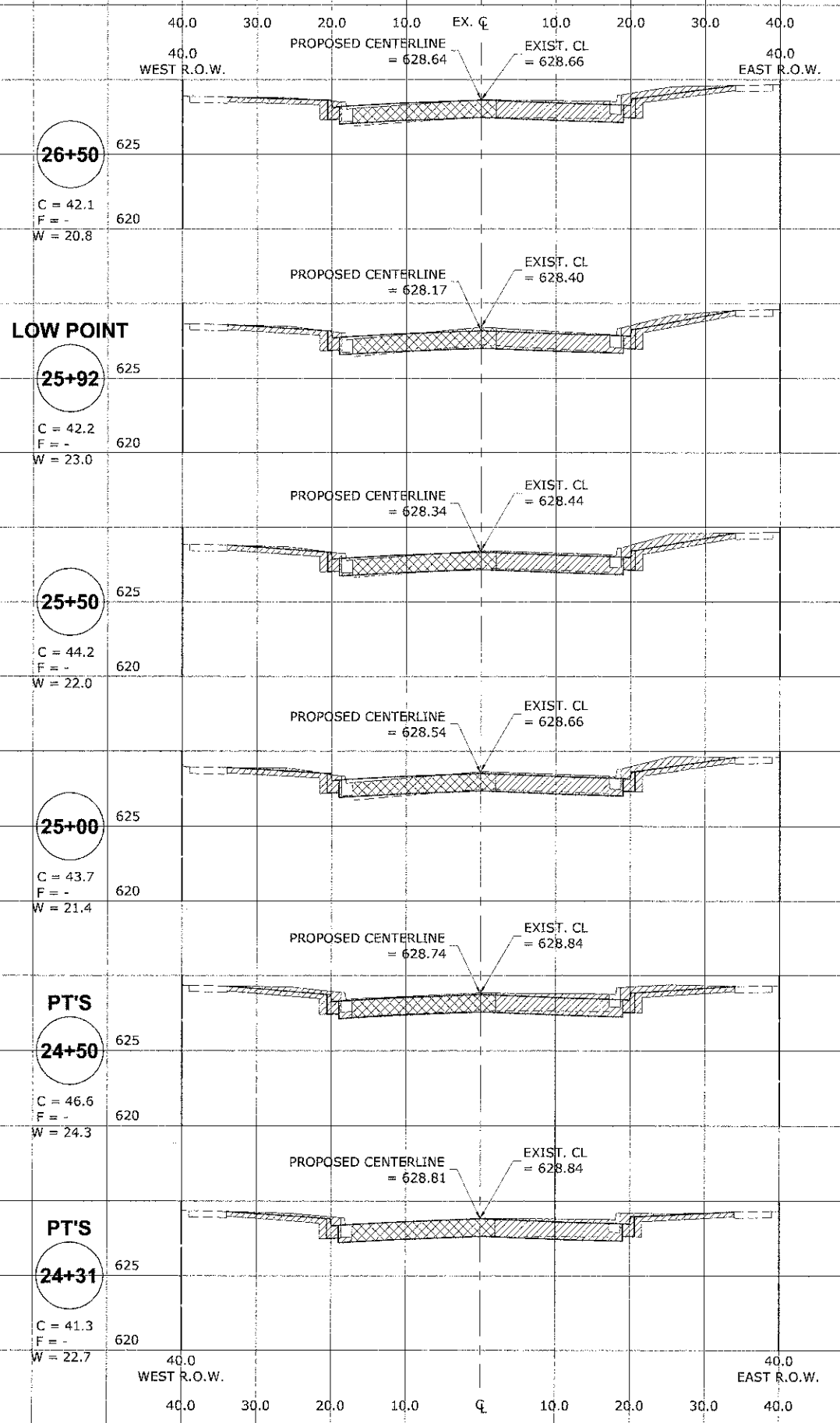
SCALE: 1"=10'H 1"=5' V

SHEET NO. 5 OF 7 SHEETS

STA. - TO STA. -

|                       |                |                           |              |           |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.           | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 1260                  | 12-00097-00-PV | COOK                      | 56           | 54        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771        |              |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS FED. AID PROJECT |              |           |

Drawing file: W:\Projects\76012052 - ELM STREET RECONSTRUCTION.Plotter: J:\Users\ELM\Xsheet\_ELM.dwg Date: 07/20/12 3:47pm



**CROSS SECTION LEGEND**

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

W = WASTE (SQ. FT.)

**HANCOCK ENGINEERING**  
 Civil Engineers  
 Municipal Consultants  
 Established 1911

9933 Koonerott Road  
 Westchester, Illinois 60154-2780  
 Phone: 708/665-0300  
 Fax: 708/665-1212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

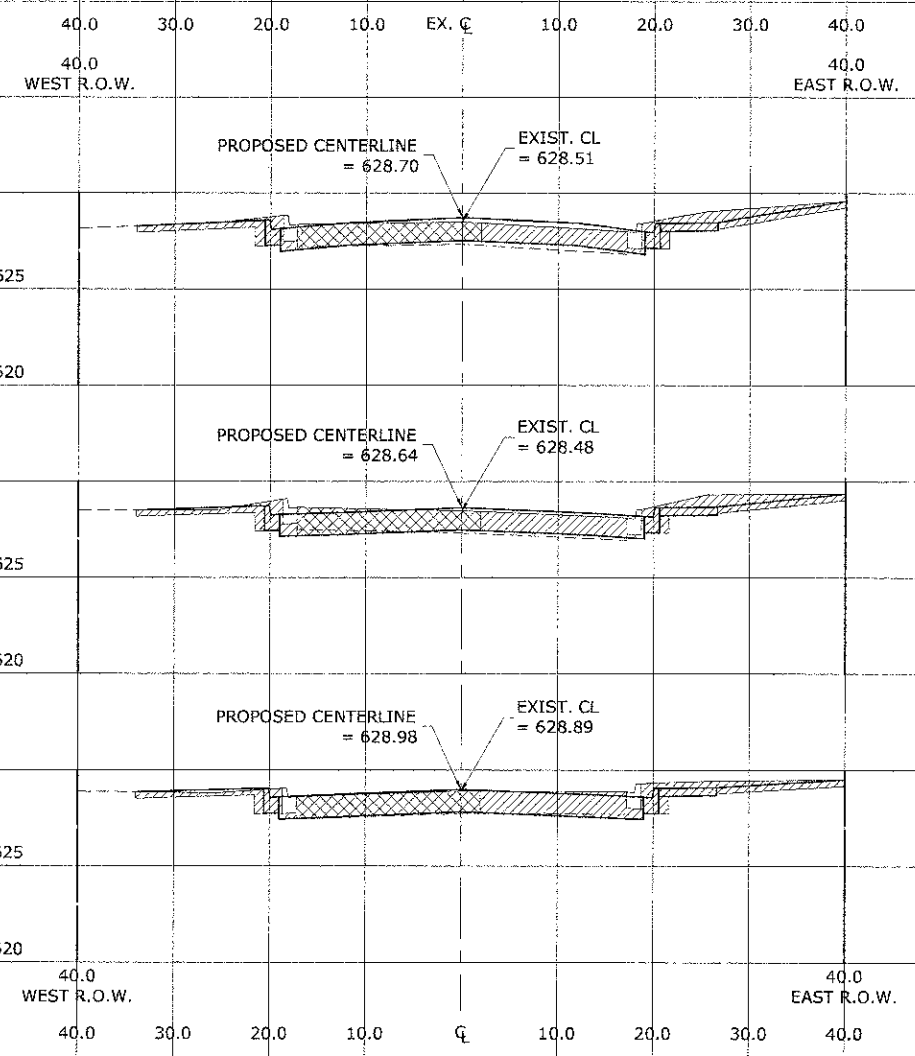
**STATION CROSS SECTIONS  
 ELM STREET**

SCALE: 1"=10' H 1"=5' V SHEET NO. 6 OF 7 SHEETS STA. - TO STA. -

|                       |                |                    |              |                  |
|-----------------------|----------------|--------------------|--------------|------------------|
| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO.        |
| 1260                  | 12-00097-00-PV | COOK               | 56           | 55               |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 83771 |              |                  |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           |              | FED. AID PROJECT |

E.H.E. PROJECT NO. 760-12-05201

| CROSS SECTION LEGEND |  |
|----------------------|--|
| C = CUT (SQ. FT.)    |  |
| F = FILL (SQ. FT.)   |  |
| W = WASTE (SQ. FT.)  |  |



**30+28**

C = 40.6  
F = -  
W = 20.9

**30+00**

C = 41.8  
F = -  
W = 23.7

**29+50**

C = 42.0  
F = -  
W = 21.2

Drawing file: W:\Projects\7601202 - ELM STREET RECONSTRUCTION P&SE (I:\Users\ELM\MyDoc\ELM.dwg) Dec 07, 2012 3:47pm



◆ Civil Engineers  
◆ Municipal Consultants  
◆ Established 1911

5953 Roosevelt Road  
Waukegan, Illinois 60154-5788  
Phone: 708/945-0500  
Fax: 708/945-2212

|            |              |           |  |
|------------|--------------|-----------|--|
| DESIGNED - | CB/SBC       | REVISED - |  |
| DRAWN -    | ECW, MK, DMM | REVISED - |  |
| CHECKED -  | MDL          | REVISED - |  |
| DATE -     | 12-7-12      | REVISED - |  |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS  
ELM STREET**

SCALE: 1"=10'H 1"=5' V SHEET NO. 7 OF 7 SHEETS STA. TO STA.

| F.A.U. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS     | SHEET NO. |
|-----------------------|----------------|--------------------|------------------|-----------|
| 1260                  | 12-00097-00-PV | COOK               | 56               | 56        |
| FIELD BOOK NO. : X    |                | CONTRACT NO. 63771 |                  |           |
| FED. ROAD DIST. NO. 1 |                | ILLINOIS           | FED. AID PROJECT |           |

E.H.E. PROJECT NO. 760-12-05201