

1-20-2012 LETTING ITEM 147
FOR INDEX OF SHEETS SEE SHEET NO. 2

TRAFFIC DATA

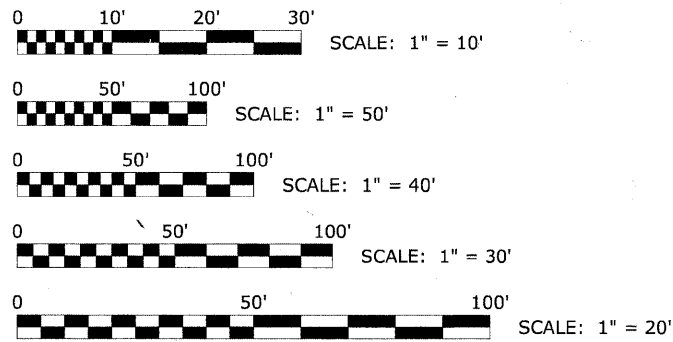
2030 ADT = 6,000
POSTED SPEED LIMIT: 25 MPH
DESIGN SPEED LIMIT: 30 MPH

PROJECT LOCATED IN
THE VILLAGE OF BROOKFIELD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU ROUTE 1694 (GRAND BOULEVARD)
VETERANS CIRCLE TO 31ST STREET
RESURFACING AND RECONSTRUCTION
SECTION NO. 07-00122-01-PV
PROJECT M-9003(875)
VILLAGE OF BROOKFIELD
COOK COUNTY
JOB NO. C-91-114-12**

**PROJECT ENDS
STATION 66+50
GRAND BOULEVARD**

LOCATION MAP



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.



PROVISO TOWNSHIP

- AREA OF IMPROVEMENT

GROSS AND NET LENGTH OF PROJECT = 6,164 FT. = 1.168 MI.

**PROJECT ENDS
STATION 28+44
MONROE AVENUE**

**PROJECT BEGINS
STATION 2+75
MONROE AVENUE**

**PROJECT BEGINS
STATION 30+55
GRAND BOULEVARD**

| | | | | |
|--------------------|----------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 + 3 | 1 |
| ILLINOIS PROJECT | | | M-9003(875) | (89) |
| VILLAGE SECTION | | | | |
| CONTRACT NO. 63651 | | | | |



LOCATION OF SECTION INDICATED THUS:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: 10/20 20 11
Maryanne P...
VILLAGE OF BROOKFIELD, PRESIDENT

PASSED: NOVEMBER 16 20 11
CHUCK CHAMBERS
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

BASED ON LIMITED REVIEW: NOVEMBER 16, 20 11
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)



SIGNED: Derek S. Treichel
DATE: 10-26-2011 LICENSE EXPIRES: 11-30-11

CONTRACT NO. 63651



Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Cover.dwg Oct 20, 2011 - 14:0pm

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E.
SCHALMUR, ILLINOIS
PHONE: (847)705-4406

CONSULTANT: EDWIN HANCOCK ENGINEERING COMPANY
9933 ROOSEVELT ROAD
WESTCHESTER, ILLINOIS 60154

E.H.E. NO. 125-09-23201

INDEX OF SHEETS

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I.D.O.T. STANDARD DRAWINGS

| STANDARD NO. | TITLE OR DESCRIPTION |
|--------------|----------------------------------------------------------------|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 280001-06 | TEMPORARY EROSION CONTROL SYSTEMS |
| 353001-04 | PCC BASE COURSE WITH HOT-MIX ASPHALT BINDER AND SURFACE COURSE |
| 424001-06 | PERPENDICULAR CURB RAMPS FOR SIDEWALKS |
| 424026 | ENTRY/ALLEY PEDESTRIAN CROSSINGS |
| 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 OR CROSSWALK CLOSURE |
| 701901-02 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-03 | SIGN PANEL ERECTION DETAILS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-06)

| SYMBOL | DESCRIPTION |
|--------|----------------------------------------------------------|
| | EXISTING POWER POLE |
| | EXISTING GAS VALVE |
| | EXISTING STREET LIGHT |
| | EXISTING WATER MAIN BUFFALO BOX |
| | EXISTING FIRE HYDRANT |
| | EXISTING WATER MAIN VALVE VAULT |
| | EXISTING MANHOLE |
| | EXISTING INLET |
| | EXISTING CATCH BASIN |
| | EXISTING TREE |
| | EXISTING HOT-MIX ASPHALT AREA |
| | EXISTING CONCRETE AREA |
| | EXISTING GRASS AREA |
| | EXISTING STONE OR GRAVEL AREA |
| | EXISTING STORM SEWER |
| | EXISTING SANITARY SEWER |
| | EXISTING ELECTRIC LINE |
| | EXISTING GAS LINE |
| | EXISTING TELEPHONE LINE |
| | EXISTING WATER MAIN |
| | EXISTING CURB AND GUTTER |
| | EXISTING RIGHT OF WAY |
| | EXISTING STRUCTURE TO BE REMOVED |
| | EXISTING STRUCTURE TO BE FILLED |
| | EXISTING CURB AND GUTTER TO BE REMOVED |
| | EXISTING HOT-MIX ASPHALT SURFACE TO BE REMOVED |
| | EXISTING HOT-MIX ASPHALT AREA TO BE REMOVED |
| | EXISTING CONCRETE AREA TO BE REMOVED |
| | EXISTING SEWER TO BE ABANDONED |
| | PROPOSED SANITARY SEWER |
| | PROPOSED COMBINATION SEWER |
| | PROPOSED STORM SEWER |
| | PROPOSED WATER MAIN |
| | PROPOSED MANHOLE |
| | PROPOSED INLET |
| | PROPOSED CATCH BASIN |
| | STRUCTURE TO BE ADJUSTED |
| | TYPE 1 FRAME & CLOSED LID |
| | TYPE 1 FRAME & OPEN LID |
| | RECONSTRUCT EXISTING STRUCTURE |
| | PROPOSED DIRECTION OF FLOW |
| | PROPOSED SUMMIT |
| | PROPOSED HOT-MIX ASPHALT AREA |
| | PROPOSED CONCRETE AREA |
| | PROPOSED GRASS AREA |
| | PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 |

BENCHMARKS

(NGVD 29)

| NO. | DESCRIPTION | ELEVATION |
|-------|--------------------------------------------------------------------------------------------------------------|-----------|
| TBM-5 | EAST-NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF CLEVELAND AVENUE AND GRAND BOULEVARD | 624.29 |
| BM-20 | CHISELED SQUARE IN SOUTHWEST CORNER OF CONTROL BOX BASE AT NORTHWEST CORNER OF 31ST STREET AND KEMMAN AVENUE | 624.14 |
| TBM-6 | EAST-NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT 3427 GRAND BOULEVARD | 622.80 |
| TBM-7 | EAST-NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT MADISON STREET AND GRAND BOULEVARD | 623.05 |
| TBM-8 | EAST-NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT 3325 GRAND BOULEVARD | 623.28 |
| TBM-9 | EAST-NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT HARRISON AVENUE AND GRAND BOULEVARD | 623.23 |

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 Municipal Consultants
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 Phone: 708.965.0300
 Fax: 708.965.1212

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LEGEND OF SYMBOLS,
BENCHMARKS, & I.D.O.T. STANDARD DRAWINGS**

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

| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 2 |
| FIELD BOOK NO. | AERIALS/ILL | CONTRACT NO. | 63651 | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | M-9003(875) | |

ACCESS

THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS FOR EMERGENCY VEHICLES INGRESS AND EGRESS ONTO PRIVATE & COMMERCIAL PROPERTY 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.

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 VILLAGE OF BROOKFIELD, 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 EXACT 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 AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS 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. UNDER NO CIRCUMSTANCE SHALL THE UTILITY COMPANIES BE HELD LIABLE FOR ANY DAMAGE AND/OR INJURY ONCE THEIR MAINS HAVE BEEN RELOCATED AND THE EXISTING ABANDONED.

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 OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

OPEN EXCAVATION

LEAVING OF ANY EXCAVATION NECESSARY FOR PAVEMENT PATCHES OR STRUCTURE ADJUSTMENTS 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 SANITARY 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 CONTRACT. 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 OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

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 CONTRACT.

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.

ELEVATION DATUM

THE EXISTING AND PROPOSED ELEVATIONS FOUND ON THE PLANS REPRESENT NGVD 29. A CONVERSION FACTOR OF +0.30' SHALL BE USED TO CONVERT THE DATUM TO NAVD 88.

CONCRETE BREAKERS

WHEN REMOVING PAVEMENT, CURB AND GUTTER, SHOULDER, AND/OR ANY OTHER STRUCTURES, THE USE OF ANY TYPE OF CONCRETE BREAKERS SUCH AS DROP HAMMERS, WHICH MIGHT DAMAGE UNDERGROUND PUBLIC OR PRIVATE UTILITIES, WILL NOT BE PERMITTED. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL BE PERMITTED.

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.

EXISTING ROADWAY SIGNS

ALL EXISTING ROADWAY SIGNS, MARKERS, ETC., LOCATED WITHIN THE ROADWAY RIGHT-OF-WAY WHICH ARE INVOLVED IN THIS CONSTRUCTION SHALL BE REMOVED AND DELIVERED TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE. ALL WORK ASSOCIATED WITH THIS ITEM SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

SOILS REPORT

A SOILS REPORT HAS BEEN PREPARED CONTAINING INFORMATION RELATING TO GENERAL SOIL CONDITIONS TO BE ENCOUNTERED ALONG THE ROUTE OF THE WORK. THE SOILS REPORT FOUND THE PROBABLE DEPTH OF THE LONG TERM GROUNDWATER LEVEL TO BE THAT OF APPROXIMATELY 8 TO 10 FEET BELOW THE SURFACE, AS WELL AS INDICATIONS OF MOISTURE AT VARIOUS LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEWATERING MEASURES AND INSTALLATION OF AN APPROPRIATE GROUNDWATER CONTROL METHOD, IF NECESSARY.

THE SOILS REPORT IS AVAILABLE FOR REVIEW AT THE OFFICE OF THE ENGINEER (708-865-0300). THE BIDDER 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.

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.

SUGGESTED SEQUENCE OF WORK OPERATIONS

IT IS ANTICIPATED THAT THE FIRST MAJOR ITEM OF WORK WILL BE THE INSTALLATION OF THE STORM SEWER BEGINNING ON MONROE AVENUE AT PRAIRIE AVENUE AND EXTENDING WEST DOWN MONROE AVENUE. THEN THE STORM SEWER WILL BE INSTALLED ON GRAND BOULEVARD EXTENDING NORTH AND SOUTH OF MONROE AVENUE.

GRAND BOULEVARD WILL REMAIN OPEN TO TRAFFIC FOR AS LONG A PERIOD AS POSSIBLE WHILE THE STORM SEWER IS BEING INSTALLED ON MONROE AVENUE. ONCE THE CONTRACTOR ESTIMATES THAT HE/SHE HAS APPROXIMATELY ONE WEEK OF WORK REMAINING BEFORE HE/SHE REACHES GRAND BOULEVARD WITH THE STORM SEWER, HE/SHE MAY CLOSE GRAND BOULEVARD TO THROUGH TRAFFIC. DURING THIS ONE WEEK PERIOD, ALL OF THE PAVEMENT ABOVE THE PROPOSED STORM SEWER ON GRAND BOULEVARD WILL BE REMOVED AND THE CONTRACTOR WILL PERFORM THE EXPLORATORY EXCAVATION NECESSARY TO DETERMINE THE ELEVATION OF THE EXISTING SEWER SERVICES ON THE WEST SIDE OF GRAND BOULEVARD. ONCE THE ELEVATION OF ALL OF THE SEWER SERVICES HAS BEEN DETERMINED, THE ENGINEER CAN CONFIRM OR MODIFY THE ELEVATIONS OF THE PROPOSED STORM SEWER AND THEN THE CONTRACTOR MAY ORDER THE STORM SEWER STRUCTURES FOR GRAND BOULEVARD.

PAVING OPERATIONS

THE PLACEMENT OF ALL HOT-MIX ASPHALT LAYERS SHALL BE PLACED IN NO MORE THAN TWO (2) PASSES OF THE PAVING EQUIPMENT. THE CENTERLINE JOINTS OF EACH HOT-MIX ASPHALT LAYER SHALL BE OFFSET FROM THE PREVIOUS LAYER, BY A MINIMUM OF THREE INCHES (3"). THE CONTRACTOR WILL BE REQUIRED TO SCHEDULE THEIR OPERATIONS SO THAT NO SECTIONS OF PAVEMENT ALONG THE CENTERLINE WILL HAVE A COLD JOINT OVERNIGHT. ALL INTERSECTION RETURNS SHALL BE PAVED AT THE SAME TIME AS THE MAINLINE PAVEMENT.

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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

| | | | | |
|-----------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 3 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

SUMMARY OF QUANTITIES

| | CODE | PAY ITEM DESCRIPTION | UNIT | TOTAL QUANTITY | CONSTRUCTION TYPE CODE | |
|---|----------|-----------------------------------------------------------|-------|----------------|------------------------|------------------|
| | | | | | RECONSTRUCT 0004 | RECONSTRUCT 0004 |
| | | | | | 75% FEDERAL 25% LOCAL | 100% LOCAL |
| | 20101000 | TEMPORARY FENCE | FOOT | 3,200 | 3,200 | 0 |
| * | 20101200 | TREE ROOT PRUNING | EACH | 120 | 120 | 0 |
| | 20200100 | EARTH EXCAVATION | CUYD | 4,200 | 3,400 | 800 |
| ~ | 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CUYD | 2,380 | 1,650 | 730 |
| ~ | 20800150 | TRENCH BACKFILL | CUYD | 9,250 | 9,250 | 0 |
| ~ | 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQYD | 19,600 | 15,075 | 4,525 |
| * | 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQYD | 9,000 | 6,770 | 2,230 |
| * | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 115 | 85 | 30 |
| * | 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 115 | 85 | 30 |
| * | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 115 | 85 | 30 |
| * | 25200100 | SODDING | SQYD | 9,000 | 6,770 | 2,230 |
| | 25200200 | SUPPLEMENTAL WATERING | UNIT | 150 | 100 | 50 |
| ~ | 28000510 | INLET FILTERS | EACH | 68 | 68 | 0 |
| ~ | 31101180 | SUBBASE GRANULAR MATERIAL, TYPE B 2" | SQYD | 7,150 | 4,950 | 2,200 |
| ~ | 31101200 | SUBBASE GRANULAR MATERIAL, TYPE B 4" | SQYD | 5,675 | 5,410 | 265 |
| | 35101800 | AGGREGATE BASE COURSE, TYPE B 6" | SQYD | 9,000 | 4,575 | 4,425 |
| ~ | 40603000 | PORTLAND CEMENT CONCRETE BASE COURSE 4" | SQYD | 490 | 490 | 0 |
| ~ | 35300300 | PORTLAND CEMENT CONCRETE BASE COURSE 8" | SQYD | 5,450 | 5,270 | 180 |
| | 35300700 | PORTLAND CEMENT CONCRETE BASE COURSE 12" | SQYD | 135 | 125 | 10 |
| ~ | 40201000 | AGGREGATE FOR TEMPORARY ACCESS | TON | 1,600 | 1,600 | 0 |
| | 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GAL | 3,600 | 2,975 | 625 |
| | 40600300 | AGGREGATE (PRIME COAT) | TON | 100 | 84 | 16 |
| | 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 5 | 0 | 5 |
| | 40600625 | LEVELING BINDER (MACHINE METHOD), N50 | TON | 550 | 446 | 104 |
| | 40600825 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50 | TON | 625 | 625 | 0 |
| | 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQYD | 400 | 280 | 120 |
| | 40600985 | PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT | SQYD | 60 | 60 | 0 |
| | 40603335 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON | 1,960 | 1,810 | 150 |
| | 40701801 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6" | SQYD | 9,000 | 4,575 | 4,425 |
| | 40701861 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9" | SQYD | 5,500 | 5,500 | 0 |
| | 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING | TON | 20 | 20 | 0 |
| | 42101300 | PROTECTIVE COAT | SQYD | 6,850 | 4,590 | 2,260 |
| | 42300300 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH | SQYD | 1,000 | 635 | 365 |
| | 42300400 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH | SQYD | 190 | 130 | 60 |
| | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH | SQFT | 27,300 | 18,620 | 8,680 |
| ~ | 42400800 | DETECTABLE WARNINGS | SQFT | 1,000 | 720 | 280 |
| | 44000100 | PAVEMENT REMOVAL | SQYD | 20,000 | 15,310 | 4,690 |
| ~ | 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQYD | 1,055 | 690 | 365 |
| | 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 11,740 | 7,900 | 3,840 |
| ~ | 44000600 | SIDEWALK REMOVAL | SQFT | 28,050 | 19,265 | 8,785 |
| ~ | 44213204 | TIE BARS 3/4" | EACH | 2,200 | 2,080 | 120 |
| | 550A2540 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18" | FOOT | 608 | 608 | 0 |
| | 550A2550 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 21" | FOOT | 463 | 463 | 0 |
| | 550A2560 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24" | FOOT | 370 | 370 | 0 |
| | 550A2580 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30" | FOOT | 330 | 330 | 0 |
| | 550A2600 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36" | FOOT | 619 | 619 | 0 |
| | 550A2610 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 42" | FOOT | 917 | 917 | 0 |
| | 550A2620 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 48" | FOOT | 1,878 | 1,878 | 0 |
| | 550A2820 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 3 48" | FOOT | 42 | 42 | 0 |
| | 550A5510 | STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 48" | FOOT | 721 | 721 | 0 |
| ~ | 550B0330 | STORM SEWERS, CLASS B, TYPE 2 10" | FOOT | 1,180 | 1,180 | 0 |
| ~ | 550B0340 | STORM SEWERS, CLASS B, TYPE 2 12" | FOOT | 548 | 548 | 0 |
| ~ | 56400510 | FIRE HYDRANTS TO BE REMOVED AND REPLACED | EACH | 3 | 0 | 3 |
| ~ | 60200105 | CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID | EACH | 51 | 51 | 0 |
| ~ | 60218400 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 1 | 1 | 0 |
| ~ | 60221100 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 14 | 14 | 0 |
| ~ | 60223800 | MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 11 | 11 | 0 |
| ~ | 60224446 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 4 | 4 | 0 |
| ~ | 60234200 | INLETS, TYPE A, TYPE 1 FRAME, OPEN LID | EACH | 6 | 6 | 0 |
| ~ | 60257900 | MANHOLES TO BE RECONSTRUCTED | EACH | 16 | 16 | 0 |

* DENOTES SPECIALTY ITEM
 ~ DENOTES THAT A SPECIAL PROVISION HAS BEEN PROVIDED

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Sum_Quantities.dwg Nov. 22, 2011 10:39am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

| | | | | |
|-----------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. - | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 4 |
| FIELD BOOK NO. - | AERIALS/LL | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT M-9003(875) | | |

SUMMARY OF QUANTITIES

| | CODE | PAY ITEM DESCRIPTION | UNIT | TOTAL QUANTITY | CONSTRUCTION TYPE CODE | | |
|---|----------|----------------------------------------------------------------------------------------------------------|--------|----------------|------------------------|------------|------------------|
| | | | | | RECONSTRUCT 0004 | | RECONSTRUCT 0004 |
| | | | | | 75% FEDERAL | 100% LOCAL | 100% LOCAL |
| ~ | 60300305 | FRAMES AND LIDS TO BE ADJUSTED | EACH | 49 | 49 | 0 | 0 |
| ~ | 60406000 | FRAMES AND LIDS, TYPE 1, OPEN LID | EACH | 5 | 5 | 0 | 0 |
| ~ | 60406100 | FRAMES AND LIDS, TYPE 1, CLOSED LID | EACH | 48 | 48 | 0 | 0 |
| | 60500040 | REMOVING MANHOLES | EACH | 5 | 5 | 0 | 0 |
| | 60500050 | REMOVING CATCH BASINS | EACH | 35 | 35 | 0 | 0 |
| | 60500060 | REMOVING INLETS | EACH | 12 | 12 | 0 | 0 |
| | 60500105 | FILLING MANHOLES | EACH | 1 | 1 | 0 | 0 |
| ~ | 60604100 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) | FOOT | 11,500 | 7,810 | 3,690 | 0 |
| ~ | 60604700 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (MODIFIED) | FOOT | 190 | 95 | 95 | 0 |
| ~ | 61141000 | STORM SEWERS (SPECIAL), 27" | FOOT | 15 | 15 | 0 | 0 |
| * | 66900200 | NON-SPECIAL WASTE DISPOSAL | CUYD | 200 | 200 | 0 | 0 |
| * | 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | 1 | 1 | 0 | 0 |
| * | 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 1 | 1 | 0 | 0 |
| | 67100100 | MOBILIZATION | L SUM | 1 | 1 | 0 | 0 |
| | 70106800 | CHANGEABLE MESSAGE SIGN | CAL-MO | 1 | 1 | 0 | 0 |
| | 72000100 | SIGN PANEL - TYPE 1 | SQFT | 360 | 360 | 0 | 0 |
| | 72800100 | TELESCOPING STEEL SIGN SUPPORT | FOOT | 680 | 680 | 0 | 0 |
| * | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQFT | 65 | 65 | 0 | 0 |
| * | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 7,200 | 7,200 | 0 | 0 |
| * | 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 2,655 | 2,655 | 0 | 0 |
| * | 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 590 | 590 | 0 | 0 |
| * | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 465 | 465 | 0 | 0 |
| * | 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 260 | 260 | 0 | 0 |
| ~ | Z0001050 | AGGREGATE SUBGRADE 12" | SQYD | 5,500 | 5,500 | 0 | 0 |
| ~ | Z0019600 | DUST CONTROL WATERING | UNIT | 100 | 100 | 0 | 0 |
| ~ | Z0042002 | POROUS GRANULAR EMBANKMENT, SUBGRADE | CUYD | 2,380 | 1,650 | 730 | 0 |
| ~ | Z0076600 | TRAINEES | HOOR | 500 | 500 | 0 | 0 |
| * | B2005524 | TREE, PYRUS CALLERYANA ARISTOCRAT (ARISTOCRAT CALLERY PEAR), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED | EACH | 3 | 3 | 0 | 0 |
| ~ | K1003679 | MULCH | CUYD | 70 | 70 | 0 | 0 |
| ~ | X0324636 | WATER VALVE BOXES TO BE ABANDONED | EACH | 3 | 3 | 0 | 0 |
| ~ | X0325207 | TELEVISION INSPECTION OF SEWER | FOOT | 6,015 | 6,015 | 0 | 0 |
| ~ | Z0062450 | TEMPORARY PAVEMENT (VARIABLE DEPTH) | TON | 30 | 30 | 0 | 0 |
| ~ | X0539800 | TREE GRATES | EACH | 3 | 3 | 0 | 0 |
| ~ | X4400100 | PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH) | SQYD | 700 | 125 | 575 | 0 |
| ~ | X4401198 | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | SQYD | 10,400 | 9,800 | 600 | 0 |
| ~ | X5620096 | WATER SERVICE LINE 1", (BORED) | EACH | 20 | 0 | 20 | 0 |
| ~ | X5620128 | ADJUSTING WATER SERVICE LINES | EACH | 65 | 65 | 0 | 0 |
| ~ | X6026624 | VALVE BOXES TO BE ADJUSTED (SPECIAL) | EACH | 20 | 20 | 0 | 0 |
| ~ | X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 1 | 0 | 0 |
| ~ | XX000541 | EXPLORATORY EXCAVATION | CUYD | 350 | 350 | 0 | 0 |
| ~ | XX000679 | CUT AND CAP EXISTING WATER MAIN | EACH | 3 | 0 | 3 | 0 |
| ~ | XX000717 | STORM SEWER CONNECTION, SPECIAL | EACH | 1 | 1 | 0 | 0 |
| ~ | XX001464 | SANITARY SEWERS, PVC, 6" | FOOT | 995 | 995 | 0 | 0 |
| ~ | XX003059 | DECORATIVE BRICK SIDEWALK | SQFT | 4,425 | 4,425 | 0 | 0 |
| ~ | XX005195 | COMBINED SEWER MANHOLE, 4'-DIAMETER TYPE 1 FRAME, CLOSED LID | EACH | 6 | 6 | 0 | 0 |
| ~ | XX005636 | PIPE UNDERDRAINS, PERFORATED POLYVINYL CHLORIDE PIPE, 6" | FOOT | 408 | 408 | 0 | 0 |
| ~ | XX006281 | STORM SEWERS, DUCTILE IRON, TYPE 1 10" | FOOT | 69 | 69 | 0 | 0 |
| ~ | XX006282 | STORM SEWERS, DUCTILE IRON, TYPE 1 12" | FOOT | 110 | 110 | 0 | 0 |
| ~ | XX006448 | 10" PVC COMBINED SEWER PIPE REPLACEMENT | FOOT | 7 | 7 | 0 | 0 |
| ~ | XX006449 | 12" PVC COMBINED SEWER PIPE REPLACEMENT | FOOT | 131 | 131 | 0 | 0 |
| ~ | XX006450 | 15" PVC COMBINED SEWER PIPE REPLACEMENT | FOOT | 272 | 272 | 0 | 0 |
| ~ | XX006452 | 15"x 6" PVC SEWER SERVICE CONNECTIONS | EACH | 3 | 3 | 0 | 0 |
| ~ | XX007001 | ROOT BARRIER | EACH | 3 | 3 | 0 | 0 |
| ~ | XX007558 | GATE VALVE 6" WITH VAULT, 4' DIAMETER | EACH | 3 | 0 | 3 | 0 |
| ~ | XX008599 | PVC COMBINED SEWER PIPE REPLACEMENT 18" | FOOT | 15 | 15 | 0 | 0 |
| ~ | XX104100 | CONNECTION TO EXISTING MANHOLE | EACH | 7 | 7 | 0 | 0 |
| * | XY008109 | BIOSWALE | L SUM | 1 | 1 | 0 | 0 |
| ~ | XY008109 | TRENCH DEWATERING | EACH | 6 | 6 | 0 | 0 |

* DENOTES SPECIALTY ITEM
 ~ DENOTES THAT A SPECIAL PROVISION HAS BEEN PROVIDED

△ 0042

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Sum_Quantities.dwg Nov. 22, 2011 - 10:37am

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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

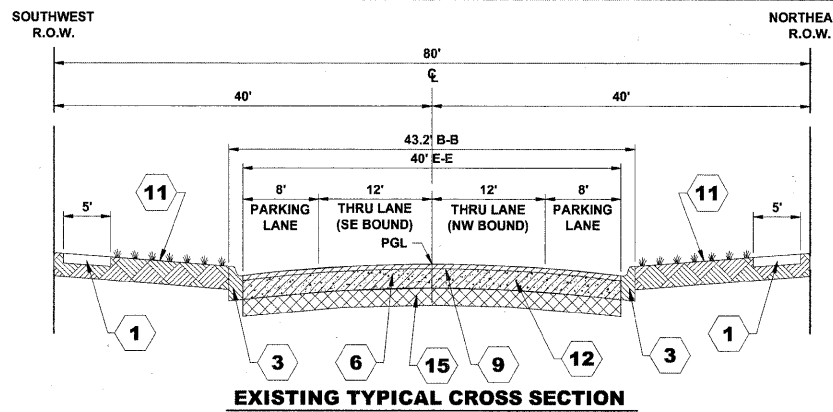
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

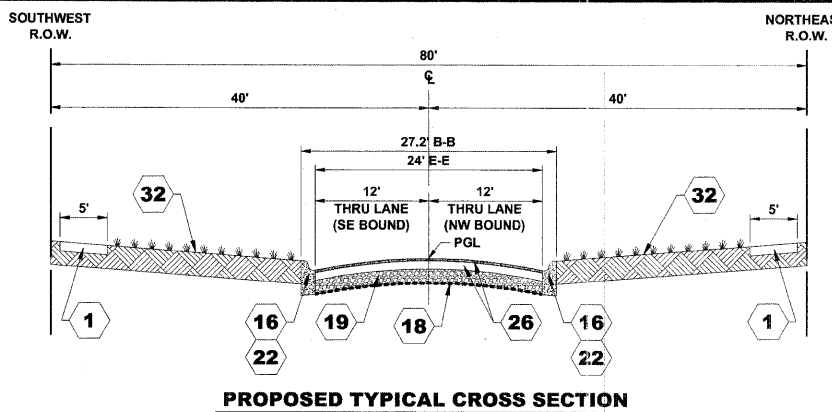
SCALE: NOT TO SCALE SHEET NO. 1 OF 2 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 5 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

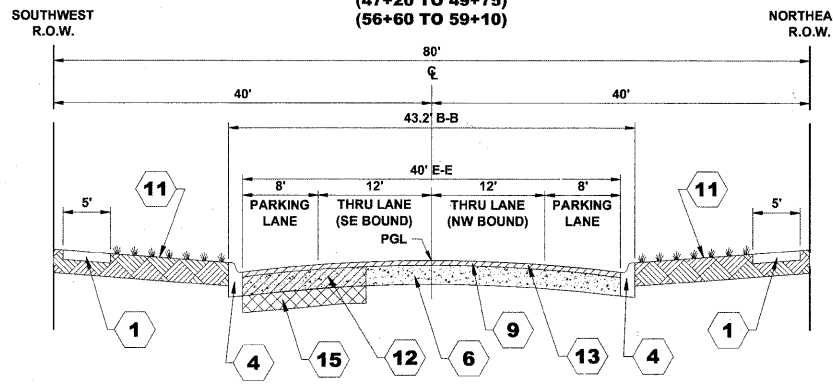
E.H.E. PROJECT NO. 125-09-23201



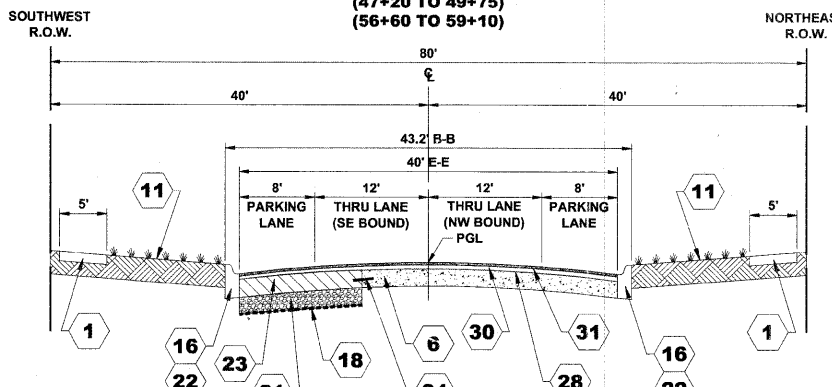
EXISTING TYPICAL CROSS SECTION
GRAND BOULEVARD
 (37+80 TO 40+26)
 (47+20 TO 49+75)
 (56+60 TO 59+10)



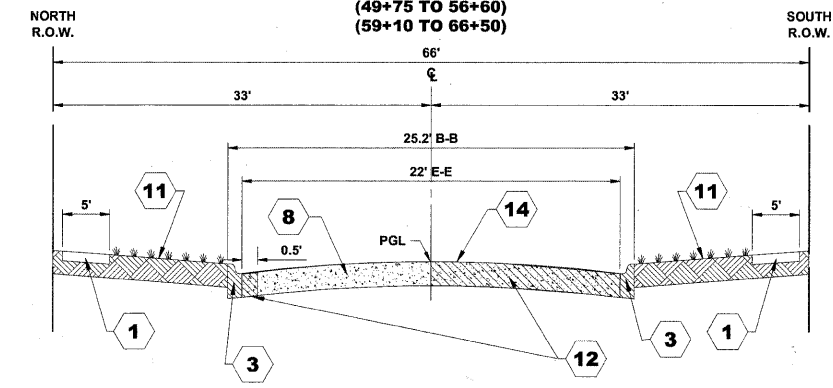
PROPOSED TYPICAL CROSS SECTION
GRAND BOULEVARD
 (37+80 TO 40+26)
 (47+20 TO 49+75)
 (56+60 TO 59+10)



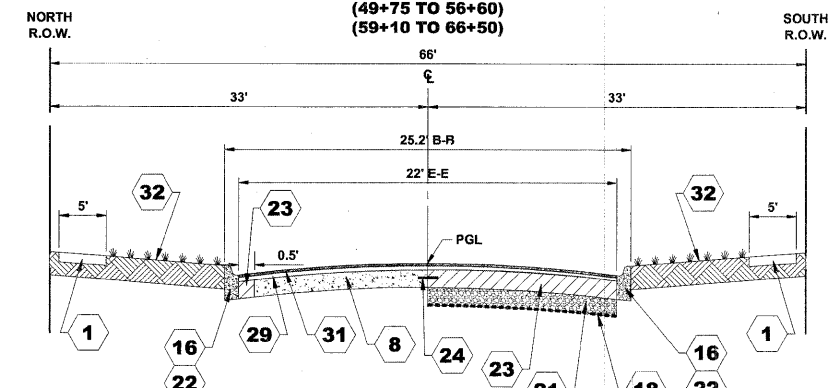
EXISTING TYPICAL CROSS SECTION
GRAND BOULEVARD
 (30+55 TO 37+80)
 (40+26 TO 47+20)
 (49+75 TO 56+60)
 (59+10 TO 66+50)



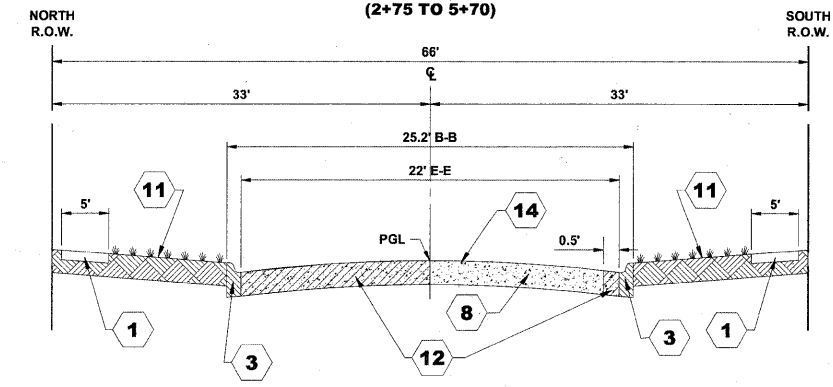
PROPOSED TYPICAL CROSS SECTION
GRAND BOULEVARD
 (30+55 TO 37+80)
 (40+26 TO 47+20)
 (49+75 TO 56+60)
 (59+10 TO 66+50)



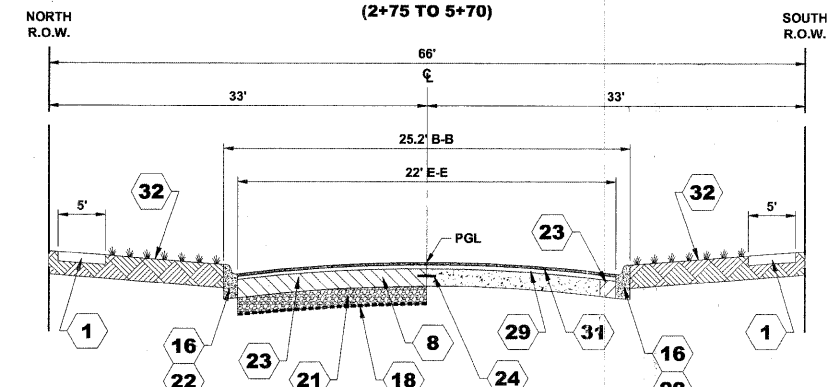
EXISTING TYPICAL CROSS SECTION
MONROE AVENUE
 (2+75 TO 5+70)



PROPOSED TYPICAL CROSS SECTION
MONROE AVENUE
 (2+75 TO 5+70)



EXISTING TYPICAL CROSS SECTION
MONROE AVENUE
 (5+70 TO 9+15)



PROPOSED TYPICAL CROSS SECTION
MONROE AVENUE
 (5+70 TO 9+15)

TYPICAL CROSS SECTION LEGEND

- | EXISTING | | PROPOSED | |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PORTLAND CEMENT CONCRETE SIDEWALK | 16 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) |
| 2 | SIDEWALK REMOVAL | 17 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) (REVERSE PITCH) |
| 3 | COMBINATION CURB AND GUTTER REMOVAL (TYPE B-6.12) | 18 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION |
| 4 | COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (ONLY CERTAIN DETERIORATED SECTIONS OF COMBINATION CONCRETE CURB AND GUTTER WILL BE REPLACED) | 19 | AGGREGATE SUBGRADE 12" |
| 5 | COMBINATION CURB & GUTTER REMOVAL (TYPE B-6.18) | 20 | AGGREGATE BASE COURSE, TYPE B 6" |
| 6 | PORTLAND CEMENT CONCRETE BASE COURSE, 8" - 9" | 21 | SUBBASE GRANULAR MATERIAL, TYPE B 4" |
| 7 | PORTLAND CEMENT CONCRETE BASE COURSE, 7" - 8" | 22 | SUBBASE GRANULAR MATERIAL, TYPE B 2" |
| 8 | PORTLAND CEMENT CONCRETE PAVEMENT, 6" - 7" | 23 | PORTLAND CEMENT CONCRETE BASE COURSE, 8" |
| 9 | HOT-MIX ASPHALT BINDER & SURFACE COURSE, 4" - 7" | 24 | TIE BARS 3/4" (EPOXY COATED, 1/2" DIA., 18" LONG DEFORMED TIE BARS @ 24" O.C.) |
| 10 | HOT-MIX ASPHALT BINDER & SURFACE COURSE, 2" - 4" | 25 | PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH |
| 11 | GRASS PARKWAY | 26 | HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9" -HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" -HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7" (INSTALLED IN 2 LIFTS) |
| 12 | PAVEMENT REMOVAL | 27 | HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6" -HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" -HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" |
| 13 | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | 28 | LEVELING BINDER (MACHINE METHOD), N50 (AS NECESSARY TO ESTABLISH PAVEMENT CROWN) |
| 14 | CONCRETE SURFACE REMOVAL, VARIABLE DEPTH | 29 | LEVELING BINDER (MACHINE METHOD), N50, 1" |
| 15 | EARTH EXCAVATION | 30 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, 3/4" |
| | | 31 | HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" |
| | | 32 | TOPSOIL FURNISH AND PLACE, 4" SODDING |
| | | 33 | TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS EROSION CONTROL BLANKET |

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE TYPE | AIR VOIDS @ Ndes |
|--------------------------------------------------------------------|------------------|
| GRAND BOULEVARD - HMA PAVEMENT (FULL DEPTH), 9" | |
| HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 7" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2" | 4% @ 50 Gyr. |
| MONROE AVENUE - HMA PAVEMENT (FULL DEPTH), 6" | |
| HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 4" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2" | 4% @ 50 Gyr. |
| GRAND BOULEVARD - RESURFACING | |
| LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5mm), (AS NECESSARY) | 4% @ 50 Gyr. |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL - 4.75, N50, 3/4" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2" | 4% @ 50 Gyr. |
| MONROE AVENUE - RESURFACING | |
| LEVELING BINDER (MACHINE METHOD), N50, (IL 9.5mm), 1" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm), 2" | 4% @ 50 Gyr. |
| INCIDENTAL HOT-MIX ASPHALT SURFACING | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL 9.5mm) | 4% @ 50 Gyr. |
| TEMPORARY PAVEMENT | |
| HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2" | 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 70-22" 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.

HMA BINDER COURSE, IL 19.0 IS TO BE PLACED IN LIFTS NOT TO EXCEED 4" THICKNESS.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Typicals.dwg Nov 21, 2011 - 10:11am

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 Municipal Consultants
 Established 1911

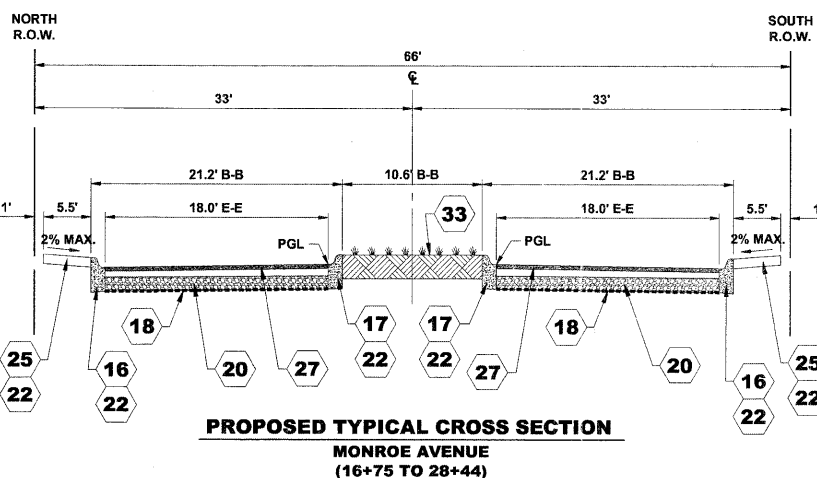
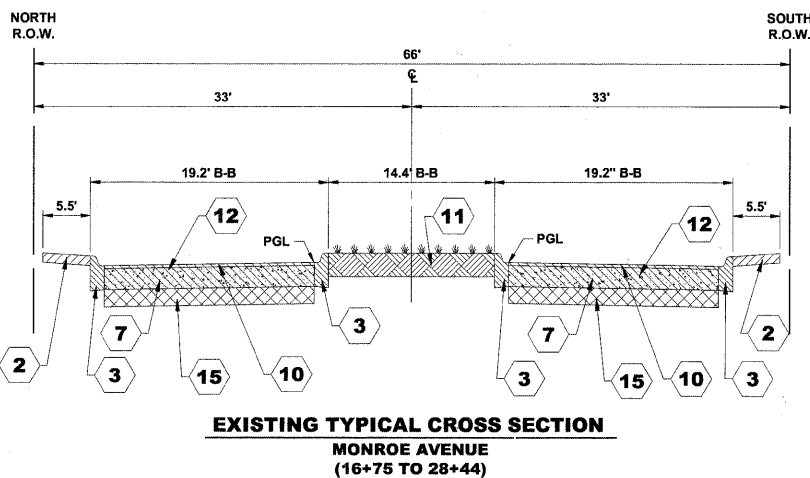
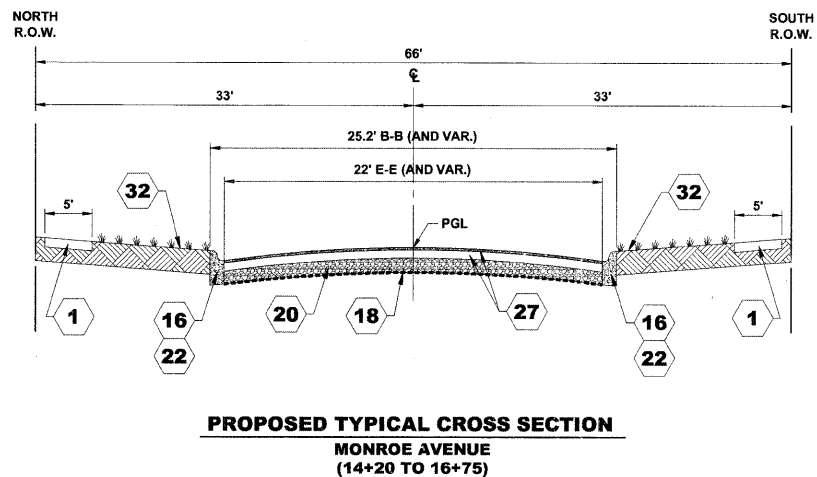
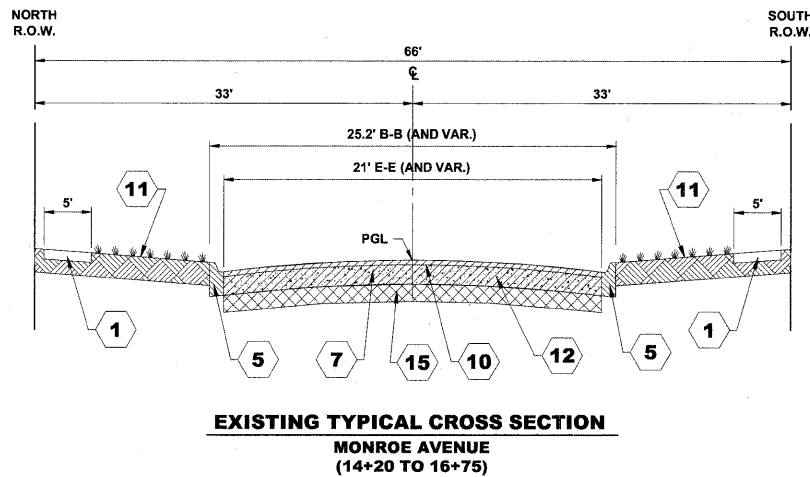
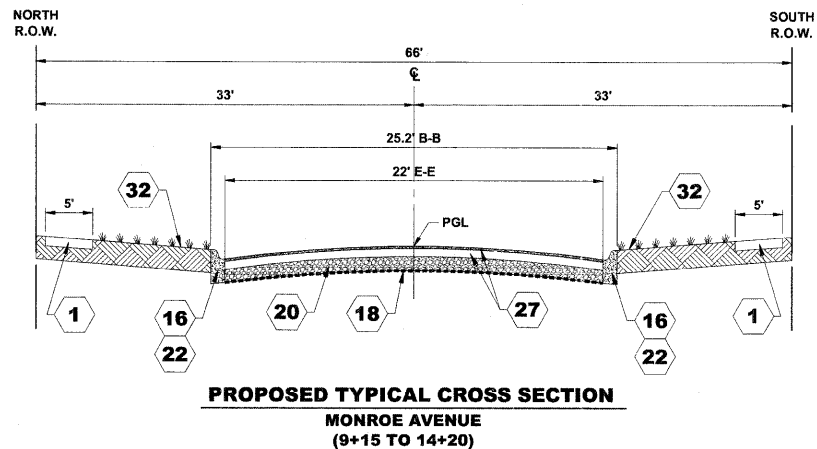
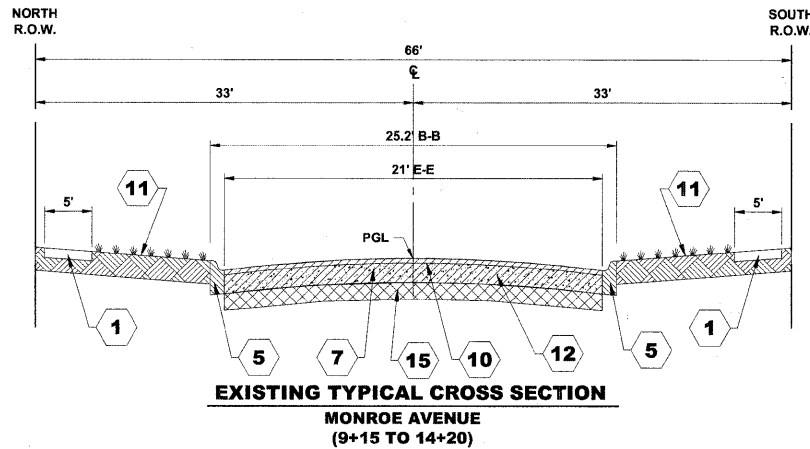
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MIK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

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

| | | | | |
|--------------------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 6 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |



TYPICAL CROSS SECTION LEGEND

EXISTING

PROPOSED

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> 1 PORTLAND CEMENT CONCRETE SIDEWALK 2 SIDEWALK REMOVAL 3 COMBINATION CURB AND GUTTER REMOVAL (TYPE B-6.12) 4 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (ONLY CERTAIN DETERIORATED SECTIONS OF COMBINATION CONCRETE CURB AND GUTTER WILL BE REPLACED) 5 COMBINATION CURB & GUTTER REMOVAL (TYPE B-6.18) 6 PORTLAND CEMENT CONCRETE BASE COURSE, 8" - 9" 7 PORTLAND CEMENT CONCRETE BASE COURSE, 7" - 8" 8 PORTLAND CEMENT CONCRETE PAVEMENT, 6" - 7" 9 HOT-MIX ASPHALT BINDER & SURFACE COURSE, 4" - 7" 10 HOT-MIX ASPHALT BINDER & SURFACE COURSE, 2" - 4" 11 GRASS PARKWAY 12 PAVEMENT REMOVAL 13 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH 14 CONCRETE SURFACE REMOVAL, VARIABLE DEPTH 15 EARTH EXCAVATION | <ul style="list-style-type: none"> 16 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) 17 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) (REVERSE PITCH) 18 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION 19 AGGREGATE SUBGRADE 12" 20 AGGREGATE BASE COURSE, TYPE B 6" 21 SUBBASE GRANULAR MATERIAL, TYPE B 4" 22 SUBBASE GRANULAR MATERIAL, TYPE B 2" 23 PORTLAND CEMENT CONCRETE BASE COURSE, 8" 24 TIE BARS 3/8" (EPOXY COATED, 3/8" DIA., 18" LONG DEFORMED TIE BARS @ 24" O.C.) 25 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH 26 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9" -HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" -HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 7" (INSTALLED IN 2 LIFTS) 27 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 6" -HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" -HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" 28 LEVELING BINDER (MACHINE METHOD), N50 (AS NECESSARY TO ESTABLISH PAVEMENT CROWN) 29 LEVELING BINDER (MACHINE METHOD), N50, 1" 30 POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, 3/4" 31 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" 32 TOPSOIL FURNISH AND PLACE, 4" SODDING 33 TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS I EROSION CONTROL BLANKET |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Typicals.dwg Nov 21, 2011 - 10:11am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

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

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------------------------------------|----------------|--------|--------------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 7 |
| FIELD BOOK NO. -AERIALS/ILL | | | CONTRACT NO. 63651 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Maintenance of Traffic.dwg Oct. 24, 2011 - 4:02pm

| LEGEND OF SYMBOLS | | | | | |
|-------------------|-------------|------------------|--------|-------------|------------------------------------|
| SYMBOL | DESCRIPTION | CODE & SIZE | SYMBOL | DESCRIPTION | CODE & SIZE |
| | | W20-3 48"x48" | | | M4-8 24"x18" |
| | | W20-2 48"x48" | | | M4-8 36"x24" |
| | | W1-2 24"x24" | | | M4-9 30"x24" |
| | | W1-2 24"x24" | | | M4-9 30"x24" |
| | | W1-2 24"x24" | | | M4-9 30"x24" |
| | | R8-3 24"x24" | | | M4-9R 24"x30" |
| | | R11-4 60"x30" | | | M4-9L 24"x30" |
| | | R11-4 60"x30" | | | M4-10 48"x18" |
| | | M3-1 24"x12" | | | M4-10 48"x18" |
| | | M3-1 24"x12" | | | R8-3 12"x18" R8-3a 12"x6" |
| | | M4-8 36"x12" | | | R8-3 12"x18" R8-3a 12"x6" |

NOTE:
CONTRACTOR TO NOTIFY IDOT HEAD OF TRAFFIC MAINTENANCE (842)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

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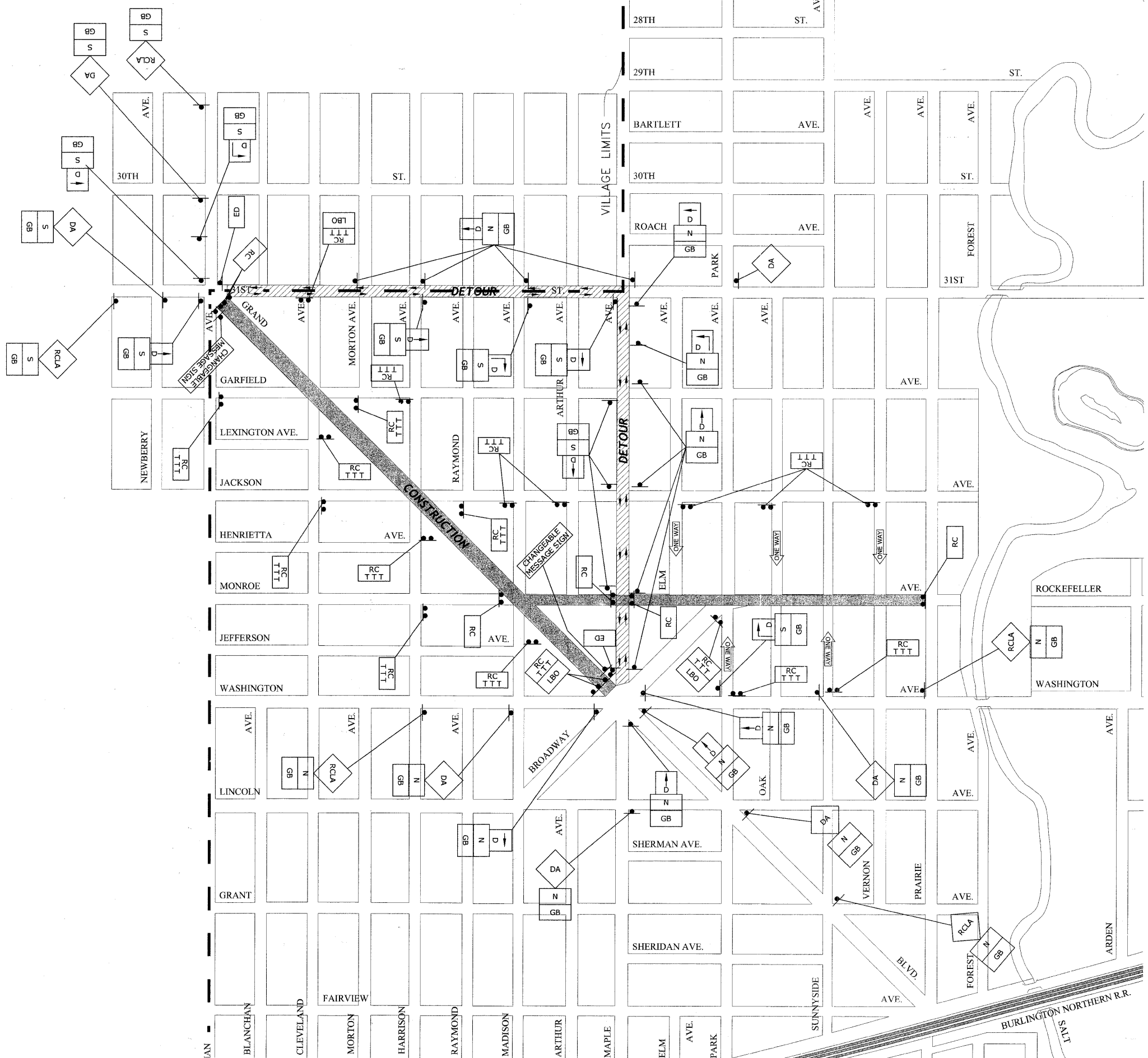
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
LEGEND OF SYMBOLS**

SCALE: NOT TO SCALE SHEET NO. 1 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 8 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |



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 GRAND BLVD. BEING CLOSED AND FOR 1 WEEK PRIOR TO GRAND BLVD. BEING OPENED.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Maintenance of Traffic.dwg Nov 22, 2011 - 10:46am

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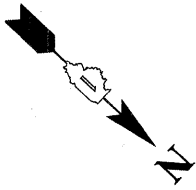
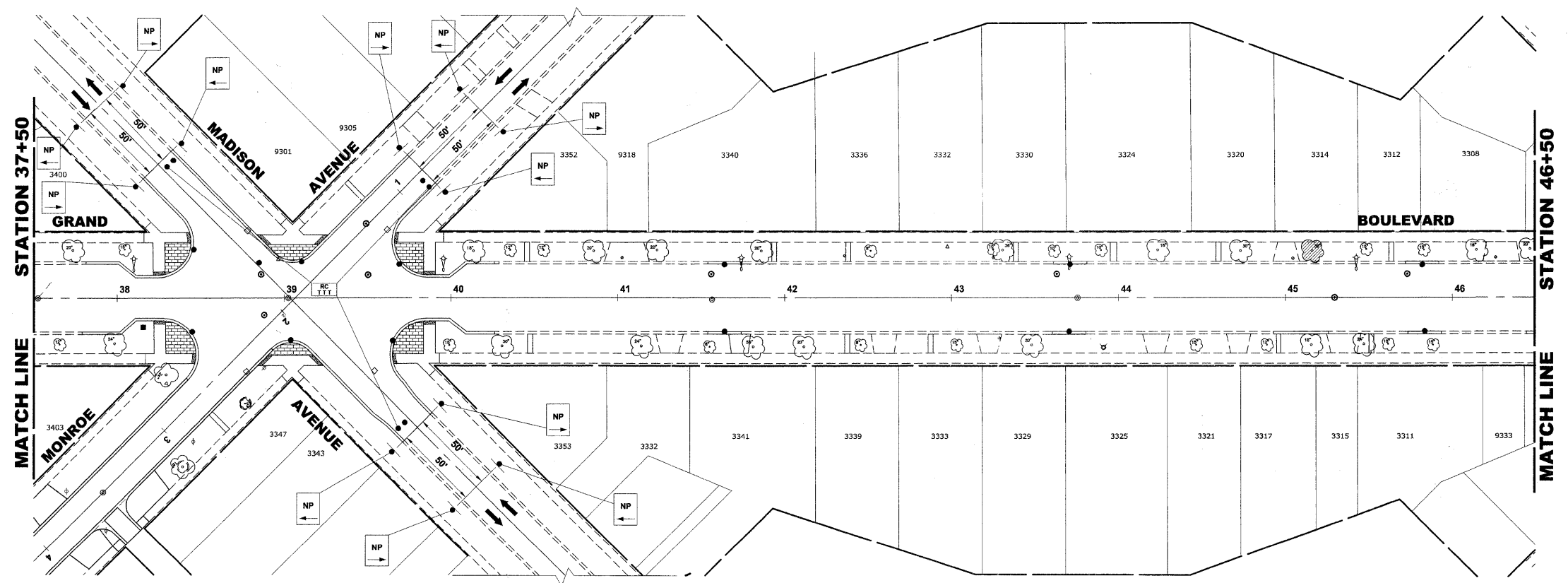
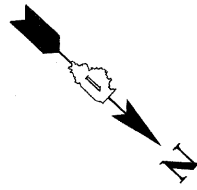
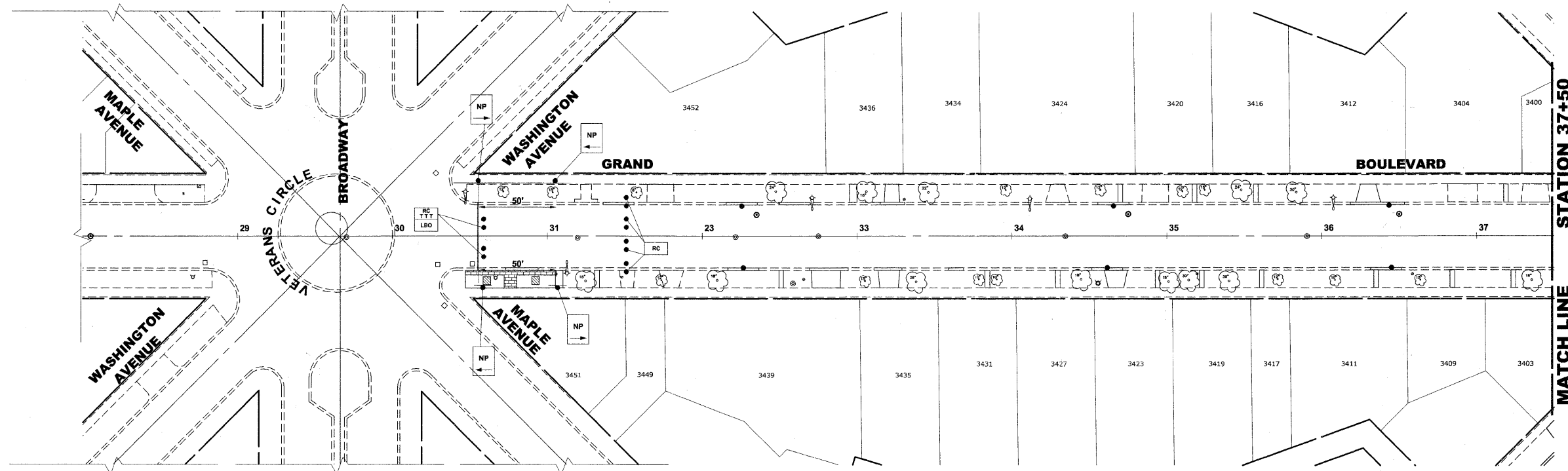
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: NOT TO SCALE SHEET NO. 2 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 9 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |



Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd 40_Schedule.dwg Oct 26, 2011 10:18am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9313 Rosewood Road
 Washington, Illinois 60154-1799
 Phone: 708.945.4100
 Fax: 708.945.1212

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

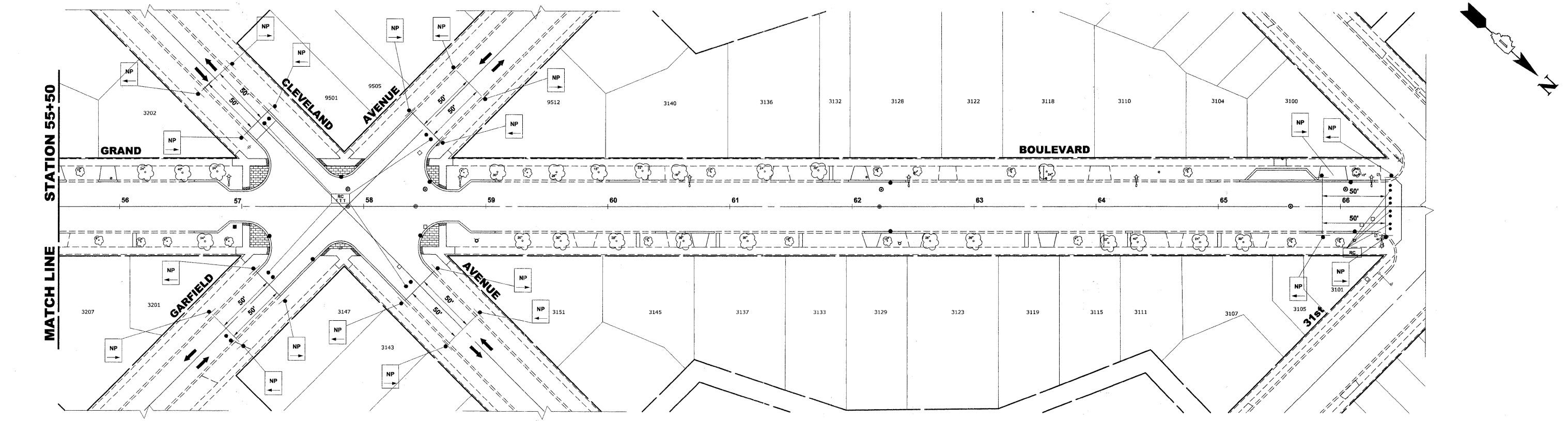
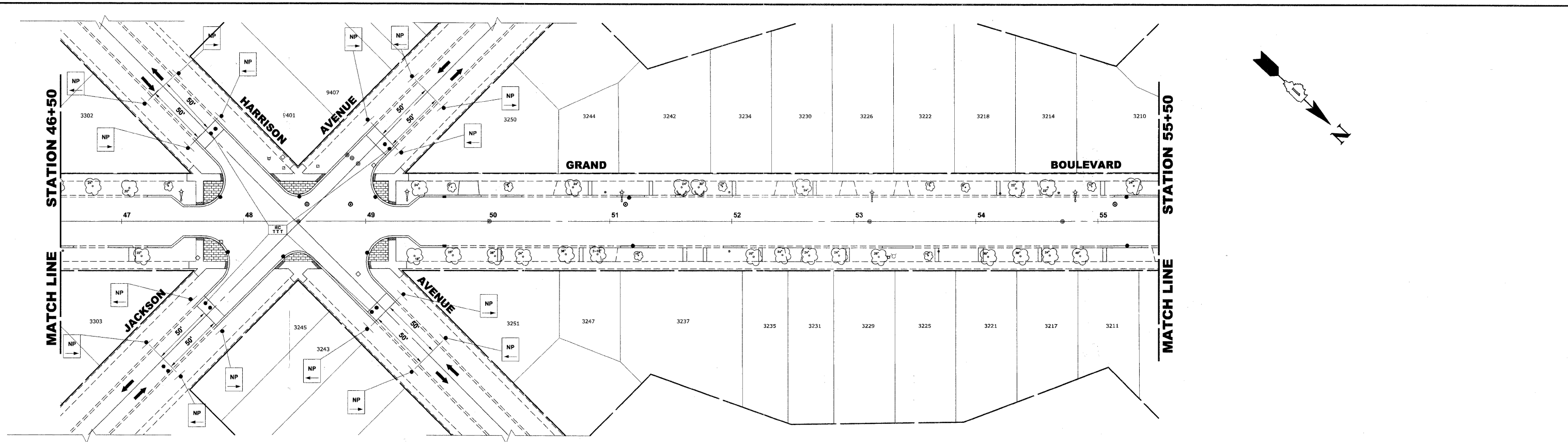
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 LOCAL ACCESS SIGNING PLAN**

SCALE: 1" = 40'
 SHEET NO. 3 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 10 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd 40 - Streets.dwg Oct. 24, 2011 1:57pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9513 Ravenswood Blvd.
 Westchester, Illinois 60153-1298
 Phone: 708.945.6700
 Fax: 708.945.6712

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

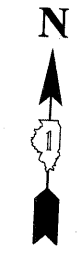
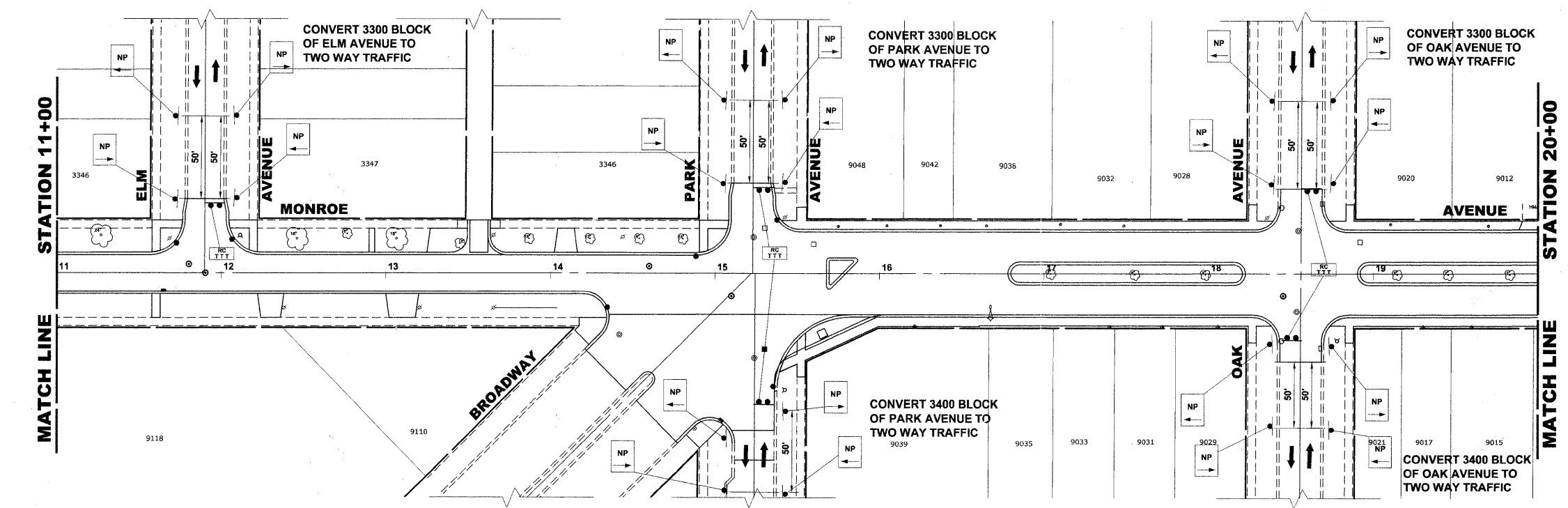
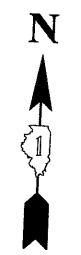
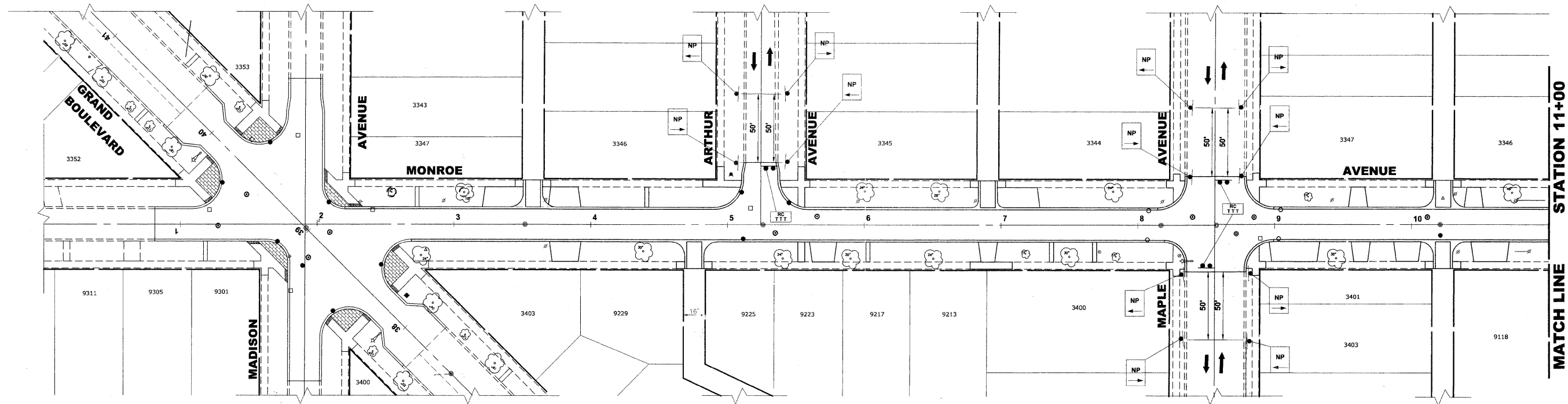
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 LOCAL ACCESS SIGNING PLAN**

SCALE: 1" = 40'
 SHEET NO. 4 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 11 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\2509232 - Grand Blvd. Design Engineer\Grand Blvd 40 - Section.dwg Oct. 24, 2011 - 1:56pm



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

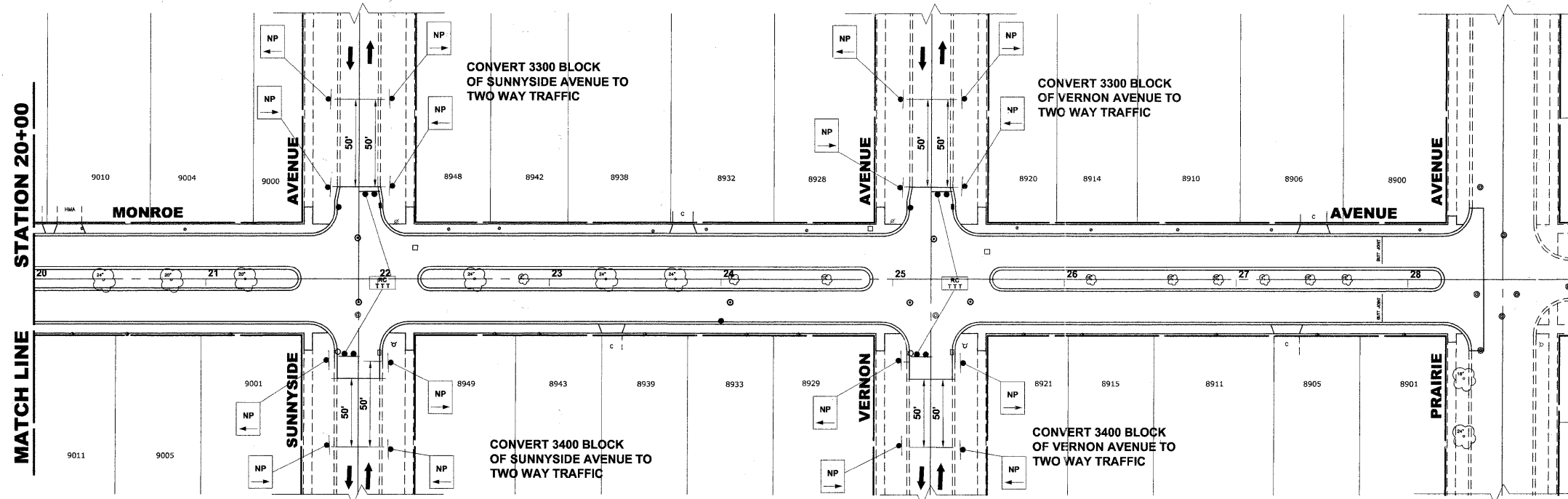
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 LOCAL ACCESS SIGNING PLAN**

SCALE: 1" = 40'
 SHEET NO. 5 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 12 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



PROJECT STAGING AND LOCAL ACCESS

1. ONCE WORK HAS BEGUN ON THE STORM SEWER ON MONROE AVENUE, MONROE AVENUE WILL BE CLOSED TO THROUGH TRAFFIC FROM PRAIRIE AVENUE TO GRAND BOULEVARD.
2. ONCE WORK HAS BEGUN ON THE STORM SEWER ON GRAND BOULEVARD, GRAND BOULEVARD WILL BE CLOSED TO THROUGH TRAFFIC FROM VETERAN'S CIRCLE TO 31ST STREET.
3. THE ONLY PAVEMENT TO BE REMOVED DURING SEWER OPERATIONS SHALL BE THE PAVEMENT NECESSARY TO INSTALL THE SEWER. ALL OTHER PAVEMENT WILL BE REMOVED DURING ROADWORK OPERATIONS. THE PAVEMENT WILL BE SAW-CUT AND NEATLY REMOVED, AND THE TRENCHES SHALL BE BACKFILLED TO THE TOP OF THE EXISTING PAVEMENT TO PROVIDE LOCAL ACCESS.
4. DURING THE INSTALLATION OF THE CURB AND GUTTER, THE EXISTING PAVEMENT SHALL REMAIN IN PLACE. THE PAVEMENT SHALL BE SAW-CUT 6" FROM THE EDGE OF PAVEMENT TO ALLOW FOR THE NEAT REMOVAL OF THE EXISTING CURB AND GUTTER.
5. THE EXCAVATION FOR THE PROPOSED PAVEMENT ON MONROE AVENUE SHALL BEGIN AFTER THE INSTALLATION OF THE PROPOSED CONCRETE CURB AND GUTTER, SIDEWALK, AND DRIVEWAY APRONS.
6. WHILE THE STORM SEWER AND CONCRETE WORK IS BEING PERFORMED, ON-STREET PARKING WILL BE ALLOWED ON THE EAST SIDE OF GRAND BOULEVARD AND 2 THROUGH LANES WILL BE MAINTAINED TO PERMIT LOCAL ACCESS DURING NON-WORKING HOURS.
7. THE TRENCH BACKFILL FOR THE PROPOSED STORM SEWER ON THE WEST SIDE OF GRAND BOULEVARD WILL EXTEND TO THE TOP OF THE EXISTING SUBGRADE. TEMPORARY STONE RAMPS SHALL BE PROVIDED TO ALL DRIVEWAYS ON THE WEST SIDE OF GRAND BOULEVARD.
8. THE 3300 BLOCK OF ARTHUR, 3300 BLOCK OF ELM, 3300 BLOCK OF PARK, 3300 & 3400 BLOCKS OF OAK, 3300 & 3400 BLOCKS OF SUNNYSIDE, AND THE 3300 & 3400 BLOCKS OF VERNON ARE TO BE CONVERTED TO TWO-WAY TRAFFIC.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design_Engineer\Grand Blvd_40_Scote.dwg Oct. 28, 2011 9:25am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

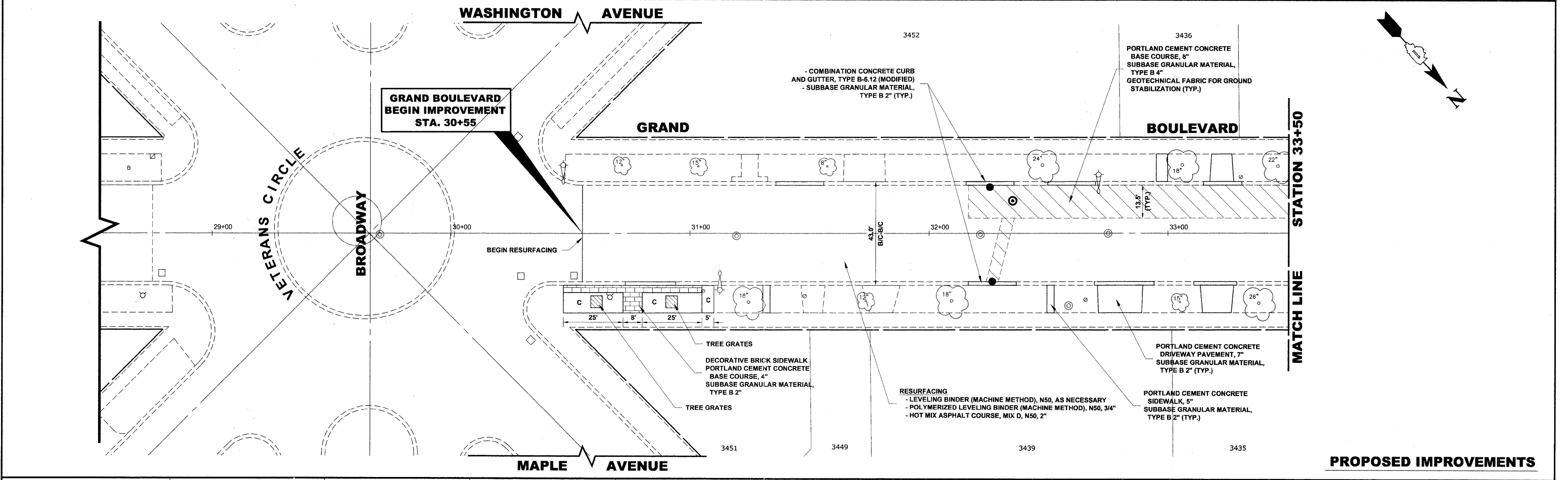
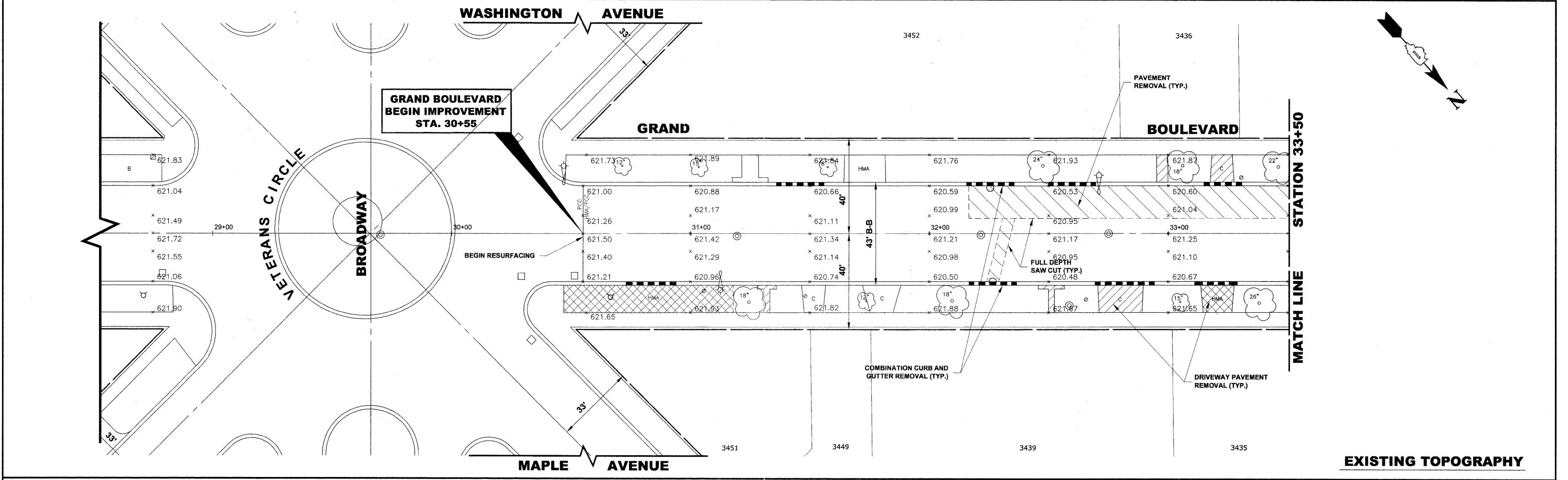
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 LOCAL ACCESS SIGNING PLAN**

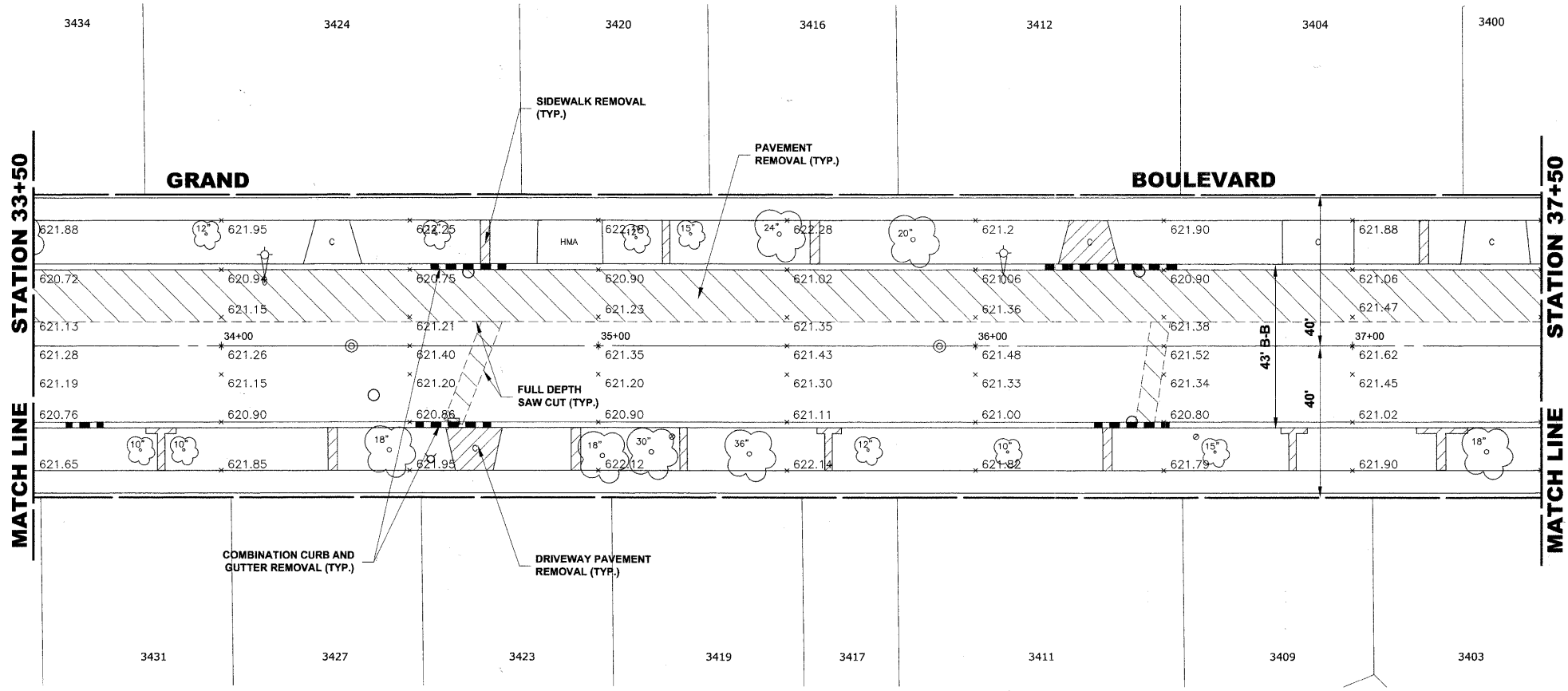
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 SHEET NO. 6 OF 6 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 13 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

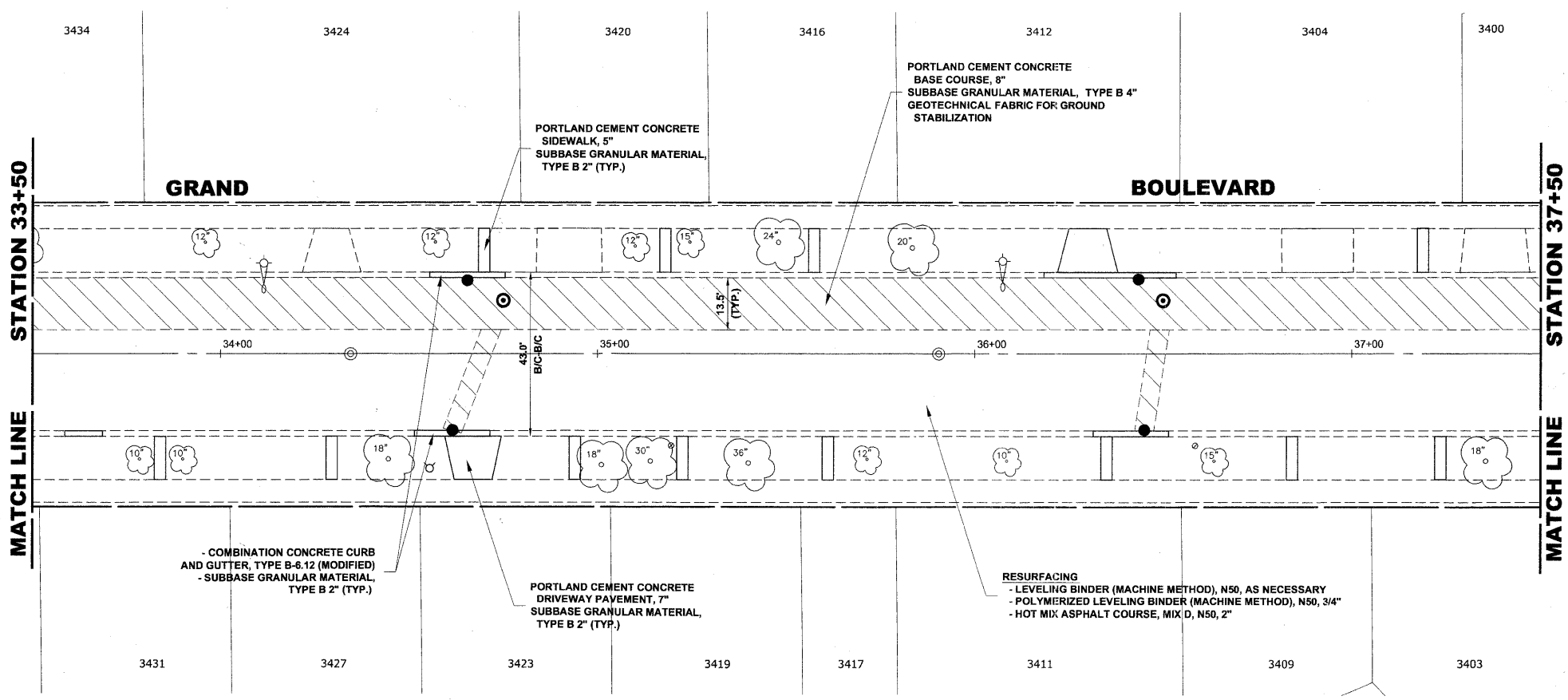


| | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------|--------------|--------------------|-----------|-----------------------------------------------------------------|----------------------------------------------|----------------------------|--------------------|------------------------------|---------------------------------|-----------|--|
| <p> Civil Engineers Municipal Consultants Established 1911 </p> | USER NAME - | DESIGNED - WOP, JG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD PAVING PLAN | ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1694 | 07-00122-01-PV | COOK | 86 | 14 | |
| | PLOT DATE - | CHECKED - WOP, JG | REVISED - | | | FIELD BOOK NO. -AERIALS/LL | CONTRACT NO. 63651 | | | | |
| | | DATE - 10-24-11 | REVISED - | | | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT M-9003(875) | E.H.E. PROJECT NO. 125-09-23201 | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:24am



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:25am

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 Civil Engineers
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 Established 1911

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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

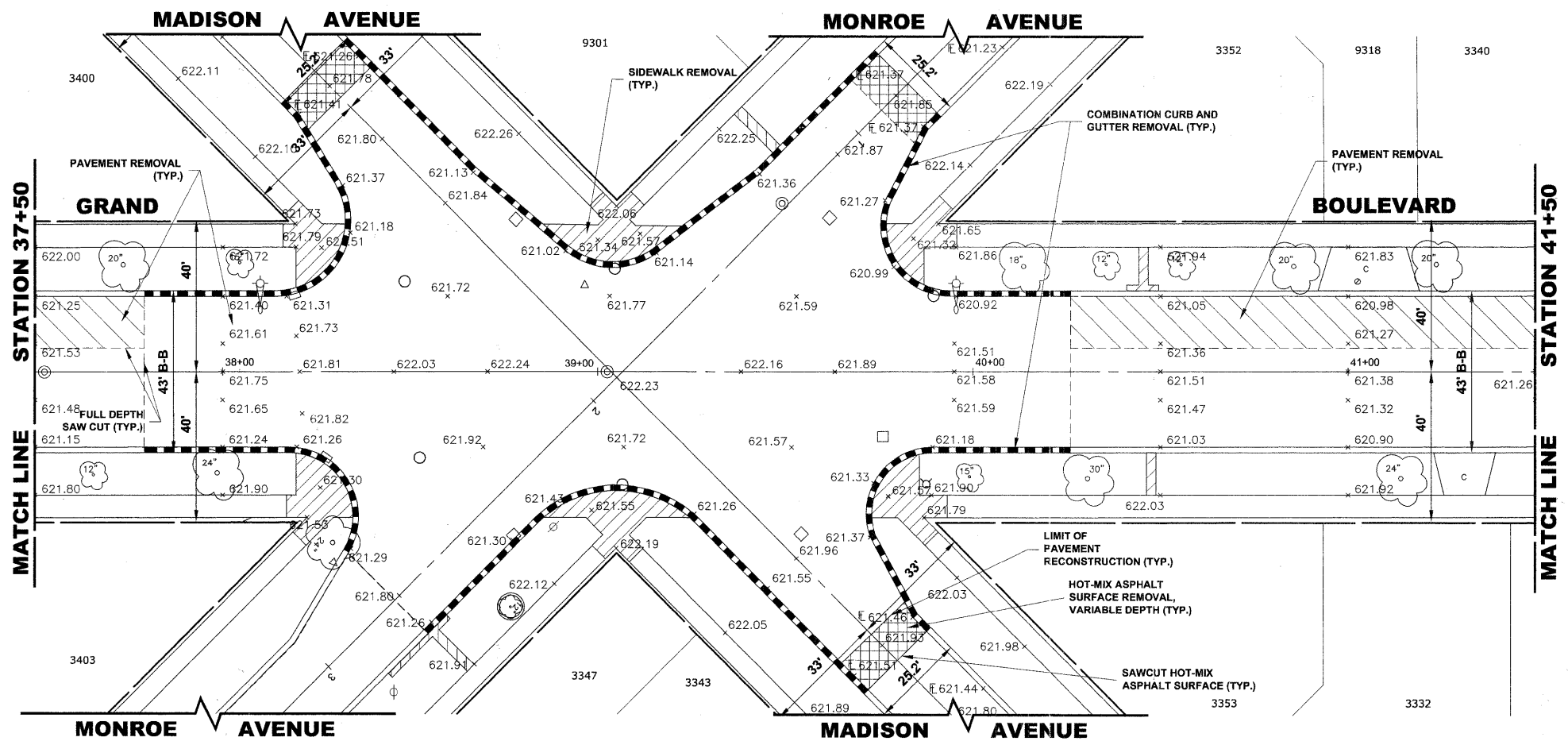
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

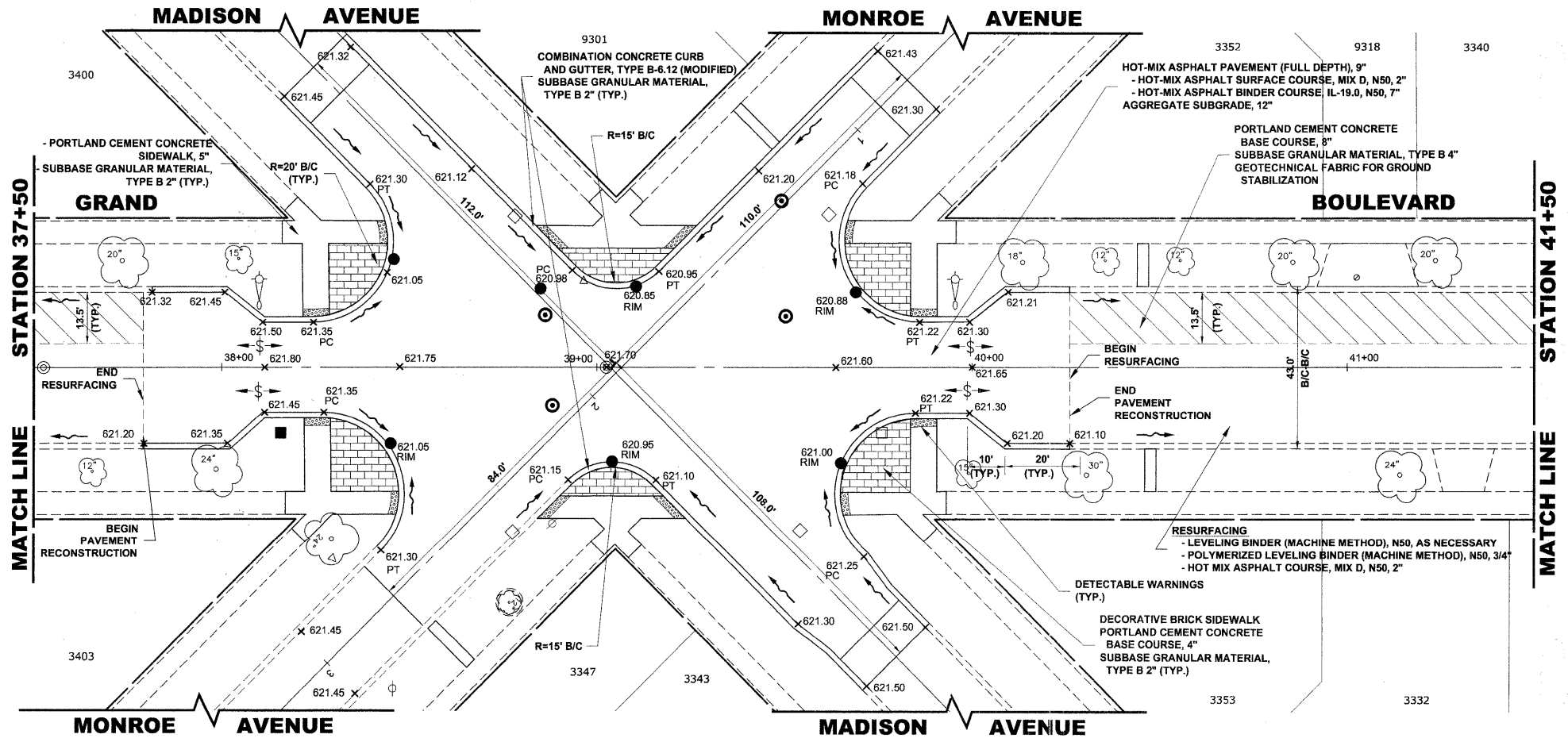
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| | | | | |
|--------------------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 15 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:27am



1983 Research Road
Waukegan, Illinois 60087-1798
Phone: 815-496-5088
Fax: 815-496-1233

USER NAME -
PLOT SCALE -
PLOT DATE -

DESIGNED - WOP, JG
DRAWN - MK, DMM
CHECKED - WOP, JG
DATE - 10-24-11

REVISED -
REVISED -
REVISED -
REVISED -

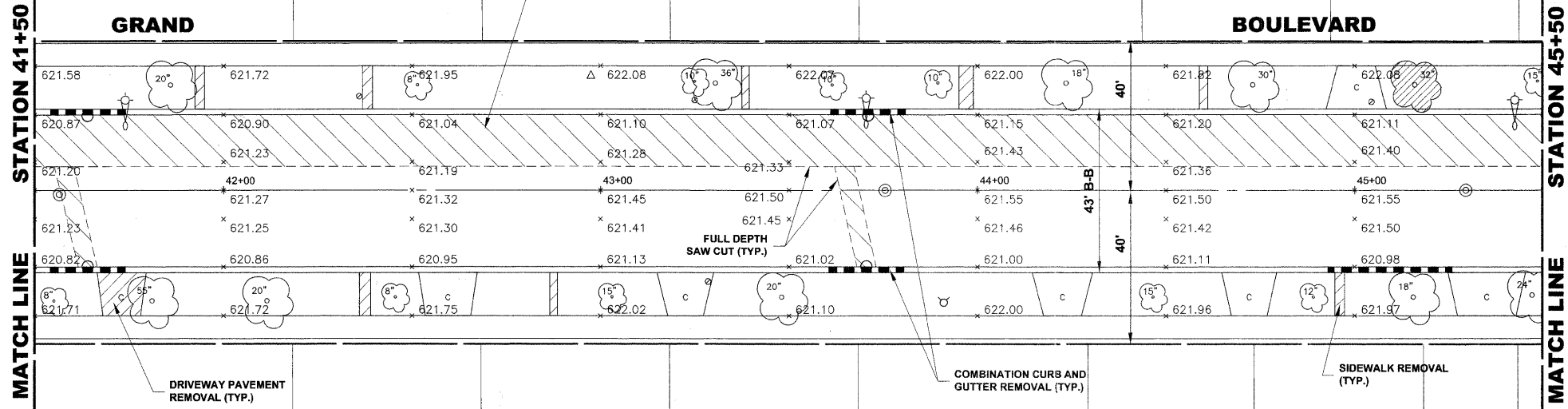
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
PAVING PLAN**

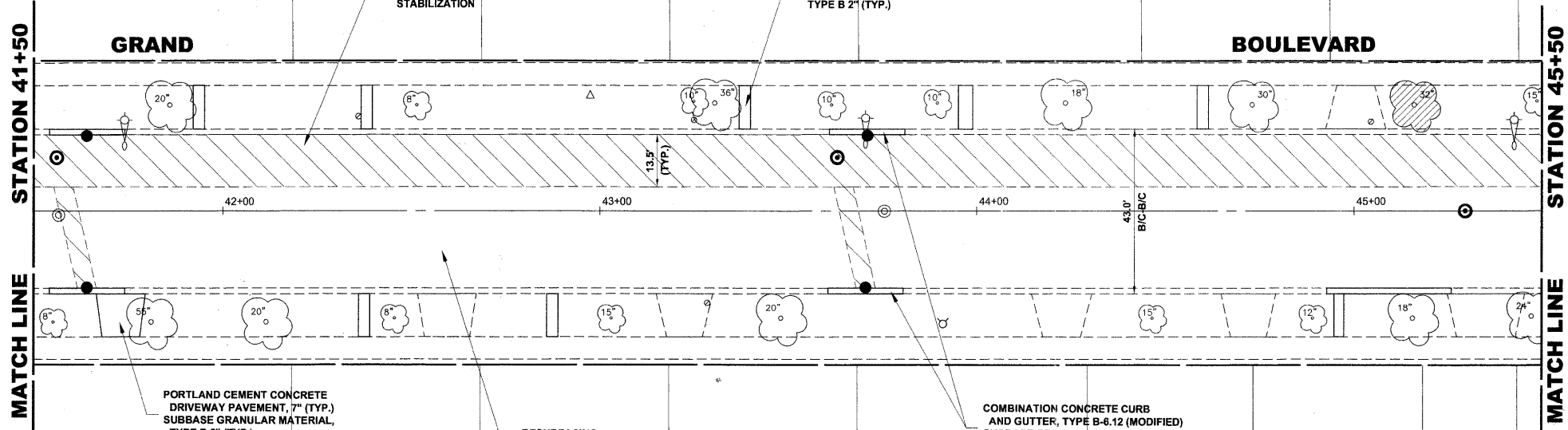
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| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|----------------|--------|------------------------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 16 |
| FIELD BOOK NO. -JAERIALS/LL | | | CONTRACT NO. 63651 | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | | FED. AID PROJECT M-9003(875) | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:28am

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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

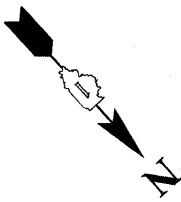
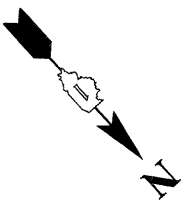
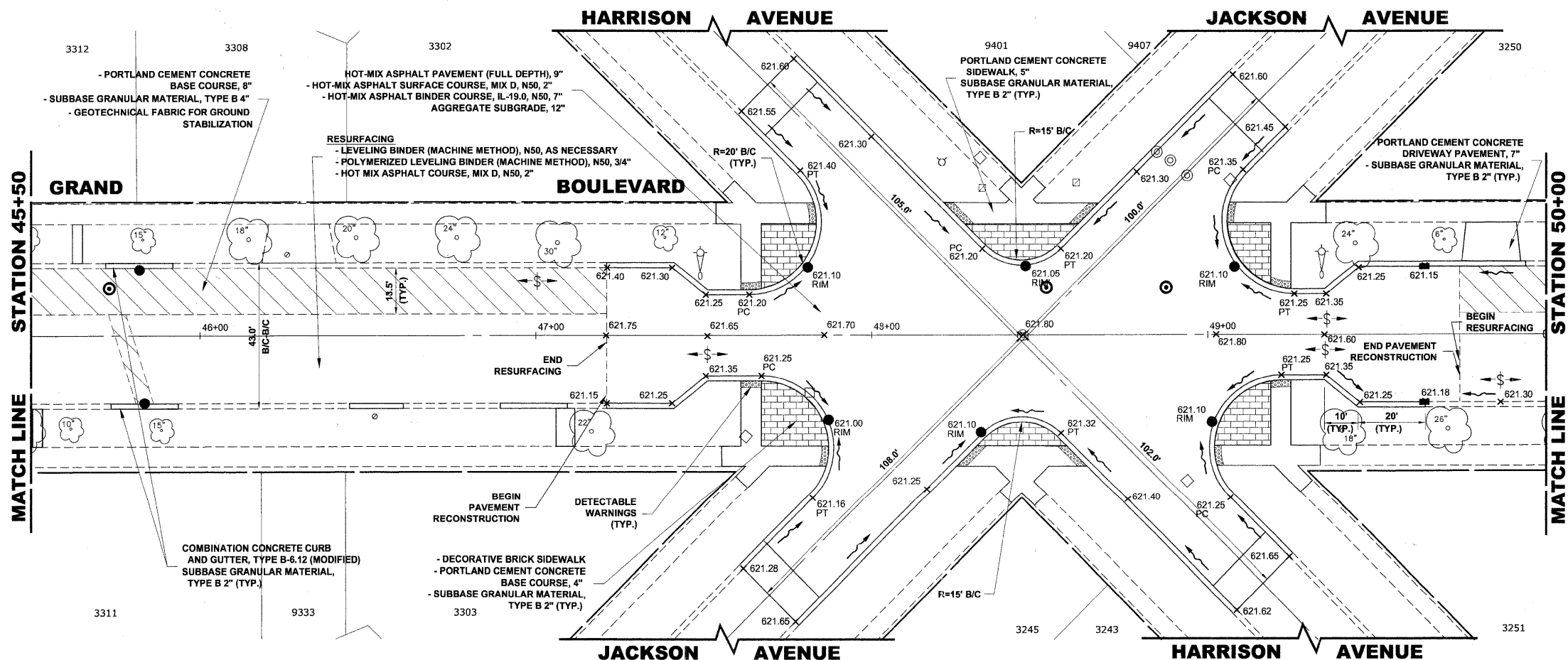
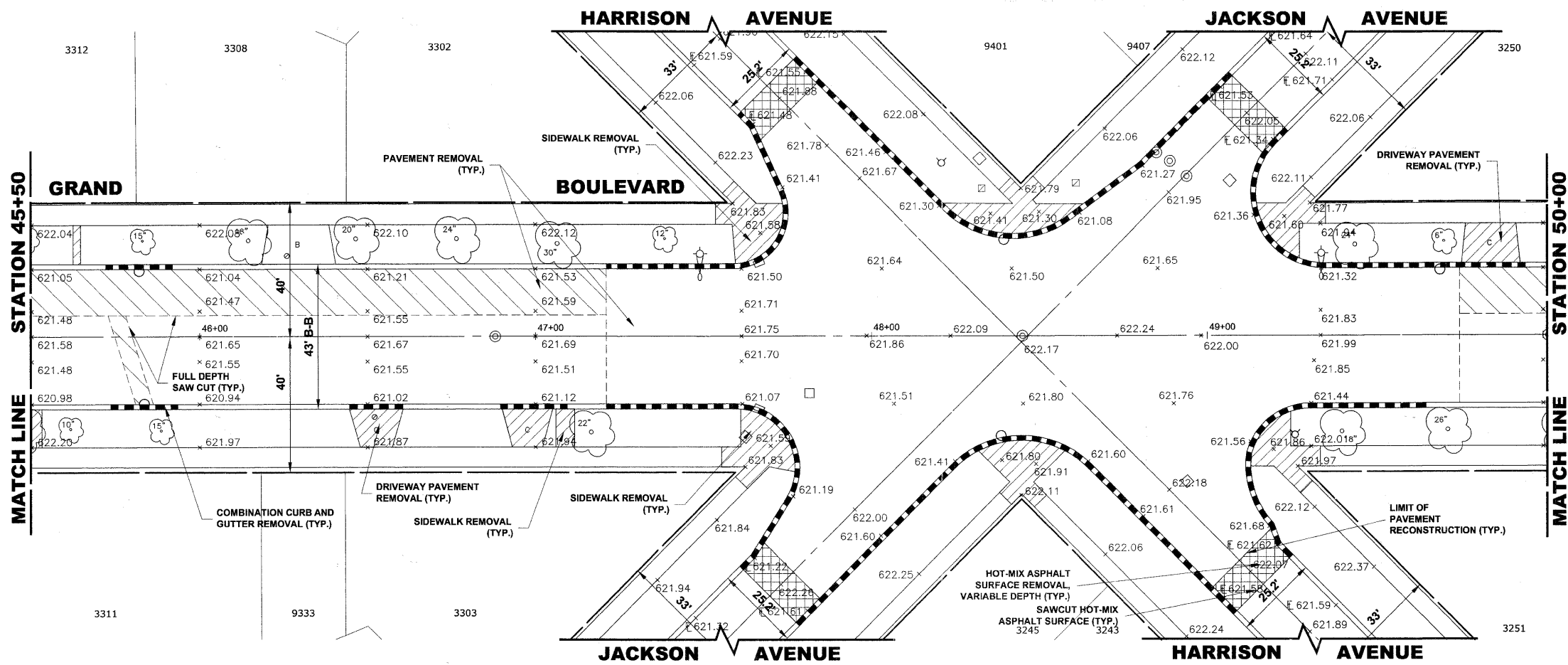
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

SCALE: 1"=20'
 SHEET NO. 4 OF 10 SHEETS STA. 41+50 TO STA. 45+50

| | | | | |
|-------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 17 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct 26, 2011 - 10:31am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

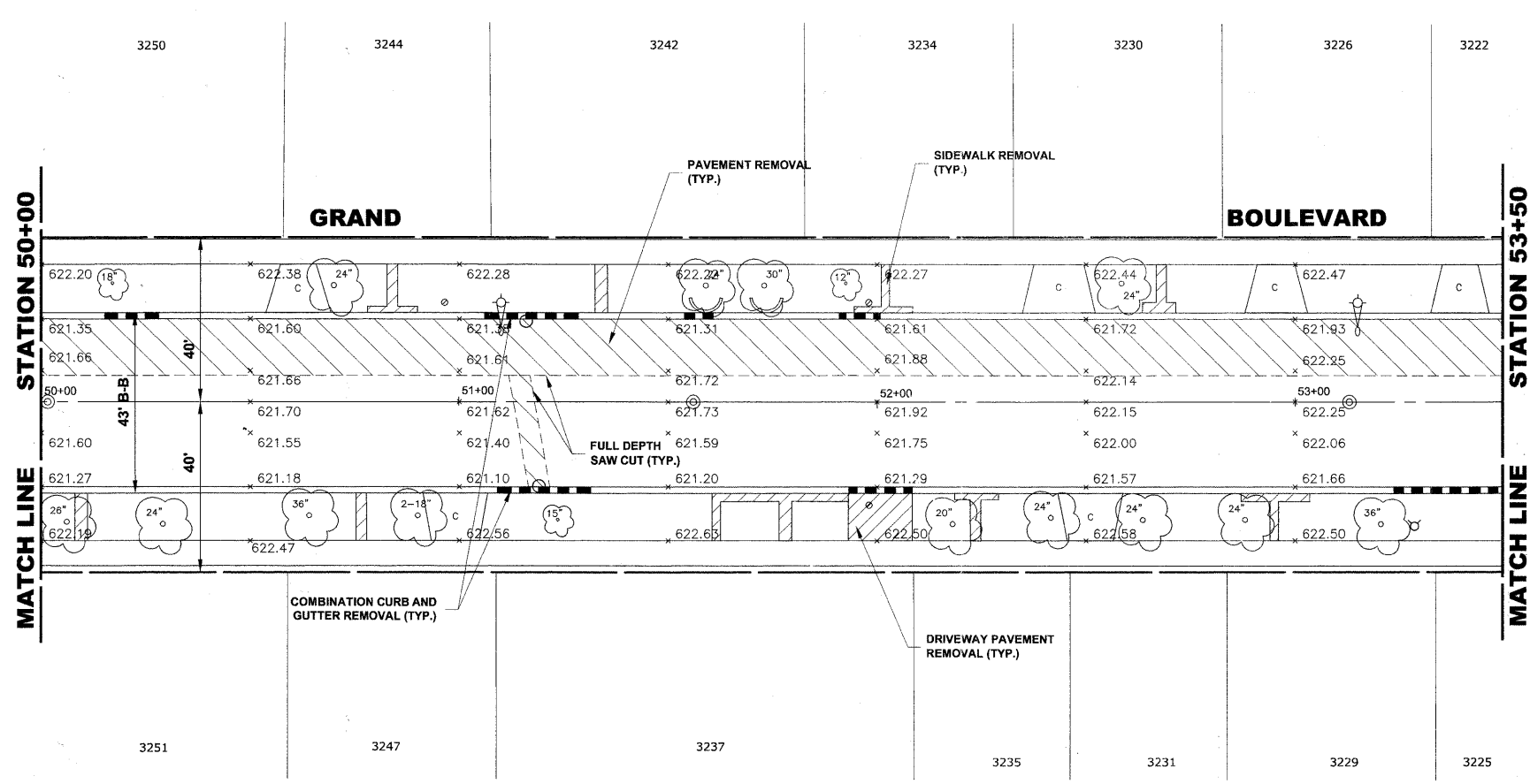
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

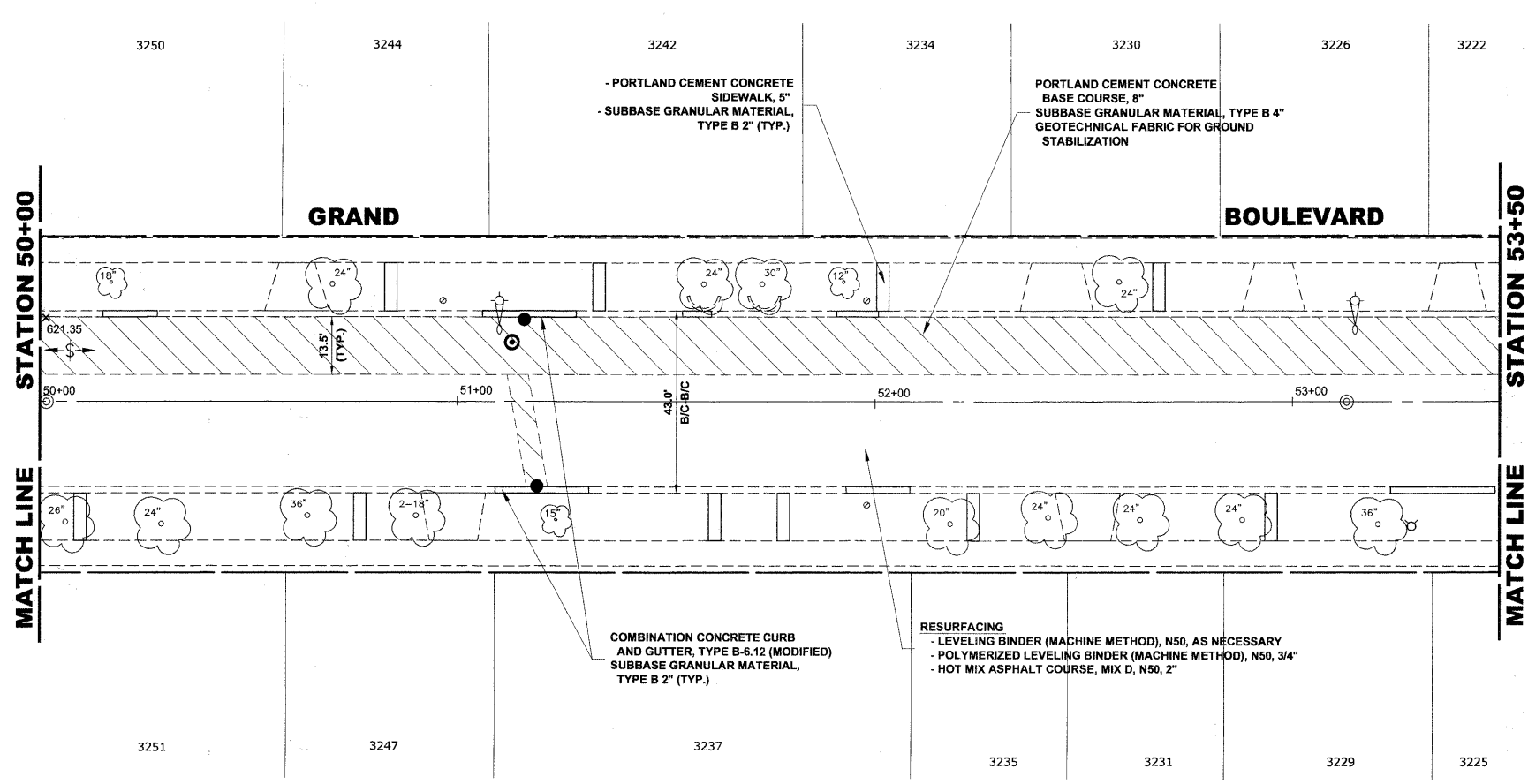
SCALE: 1"=20'
 SHEET NO. 5 OF 10 SHEETS STA. 45+50 TO STA. 50+00

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 18 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:32am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

| | |
|--------------------|-----------|
| DESIGNED - WOP, JG | REVISED - |
| DRAWN - MK, DMM | REVISED - |
| CHECKED - WOP, JG | REVISED - |
| DATE - 10-24-11 | REVISED - |

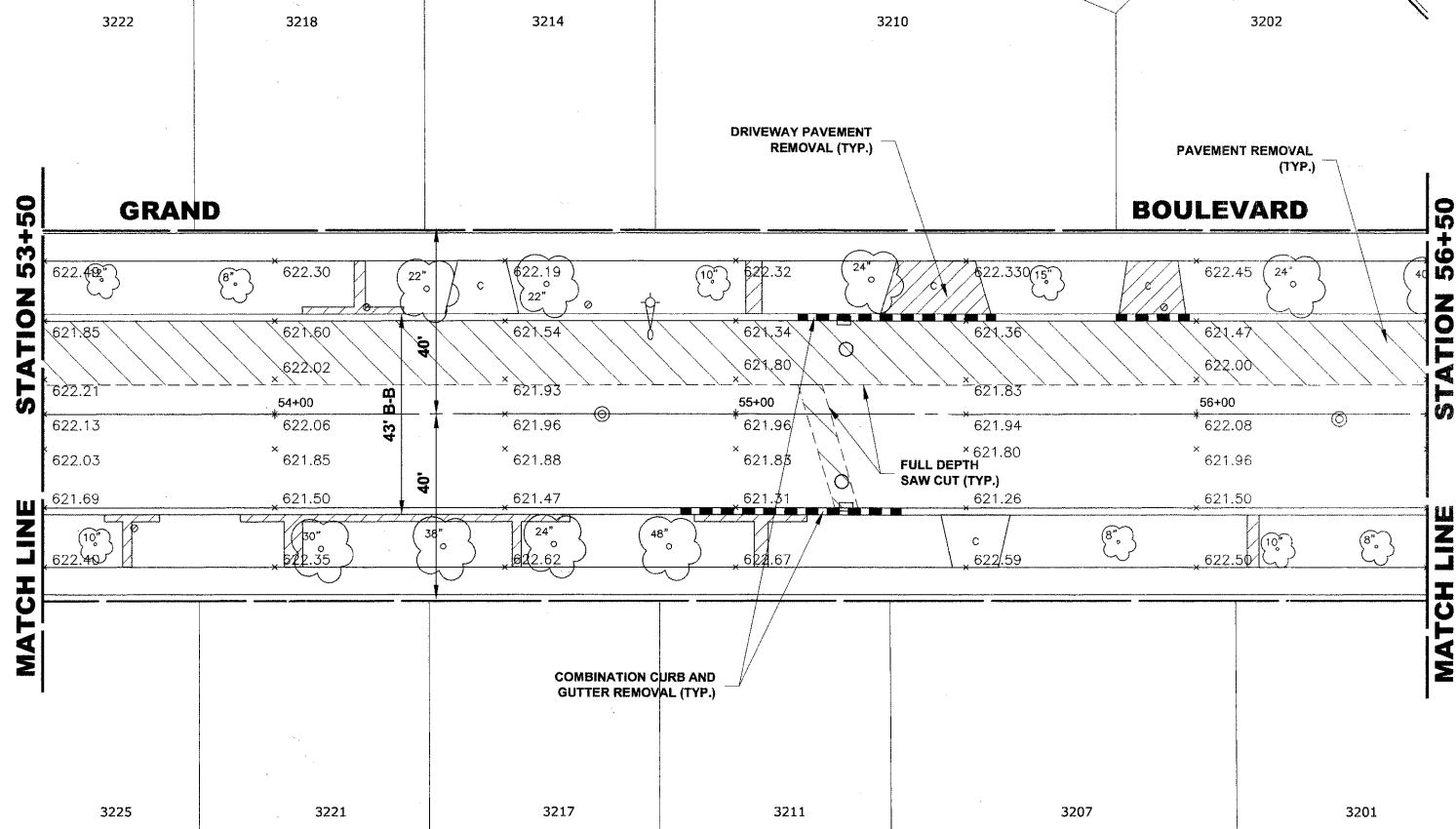
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

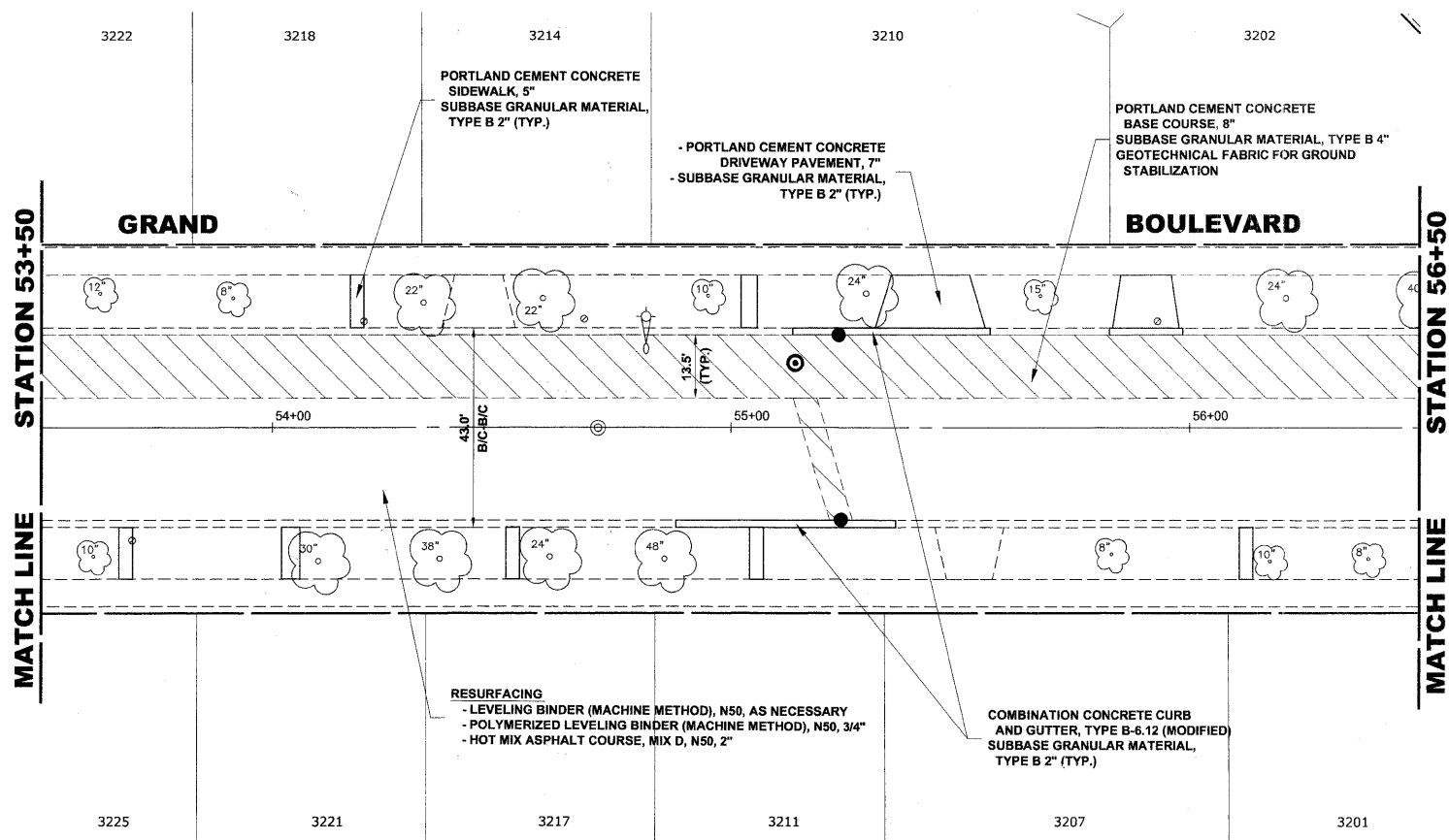
SCALE: 1"=20'
 SHEET NO. 6 OF 10 SHEETS STA. 50+00 TO STA. 53+50

| | | | | |
|--------------------------------|------------------------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1684 | 07-00122-01-PV | COOK | 86 | 19 |
| FIELD BOOK NO. | CONTRACT NO. | | | |
| -AERIALS/LL | 63651 | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | FED. AID PROJECT M-9003(875) | | | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:34am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

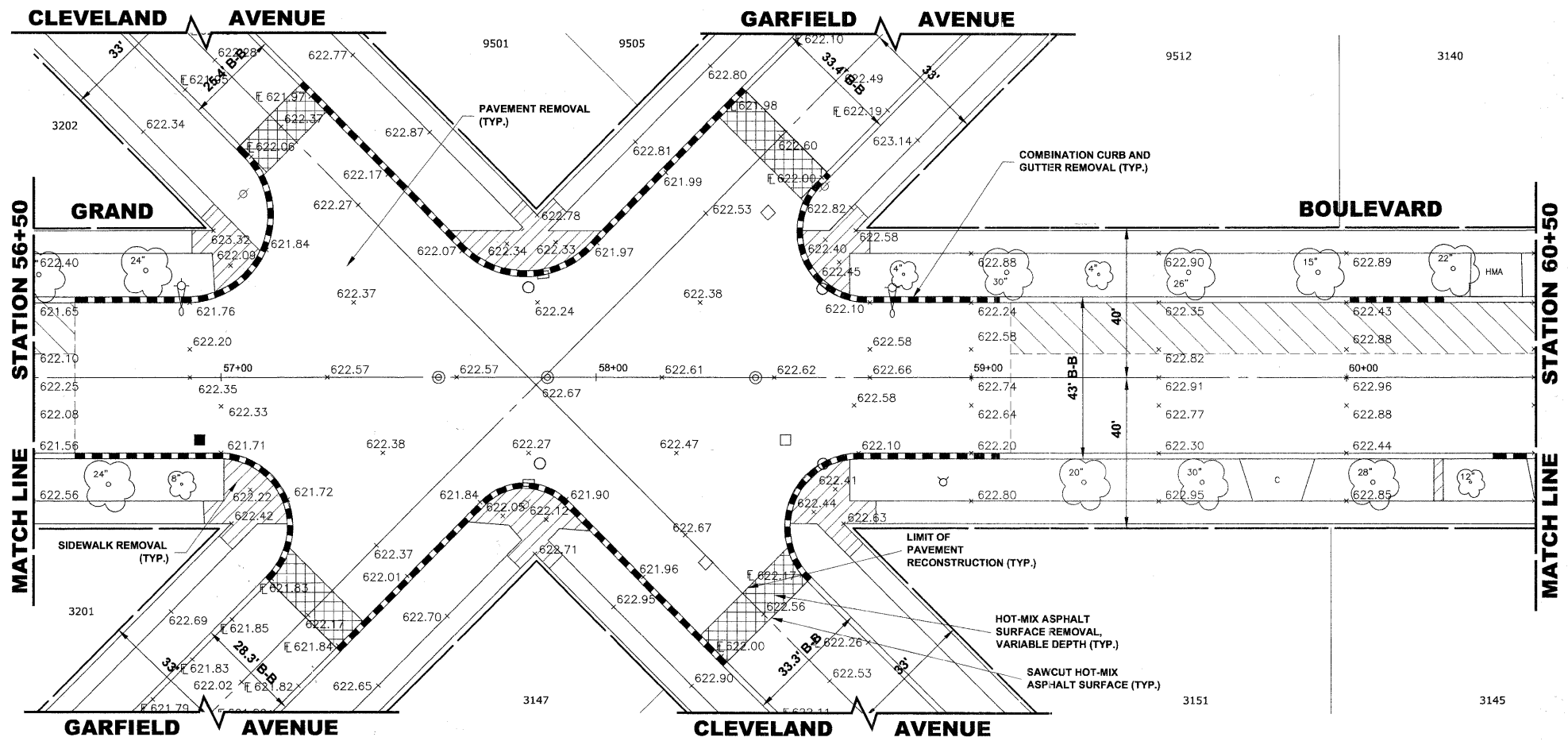
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

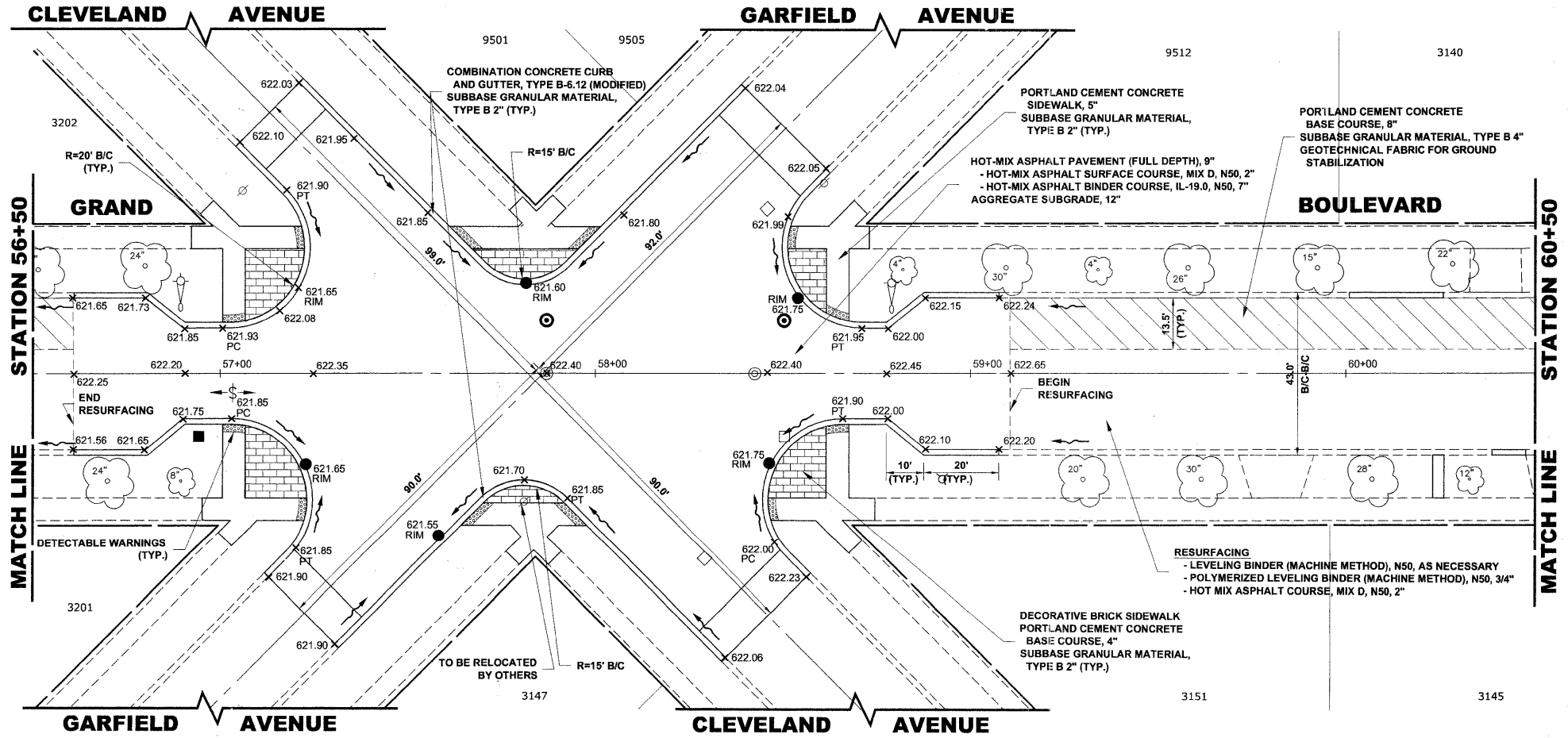
SCALE: 1"=20H. SHEET NO. 7 OF 10 SHEETS STA. 53+50 TO STA. 56+50

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------------------|----------------|---------------------------------------|--------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 20 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:37am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -
 PLOT SCALE -
 PLOT DATE -

DESIGNED - WOP, JG
 DRAWN - MK, DMM
 CHECKED - WOP, JG
 DATE - 10-24-11

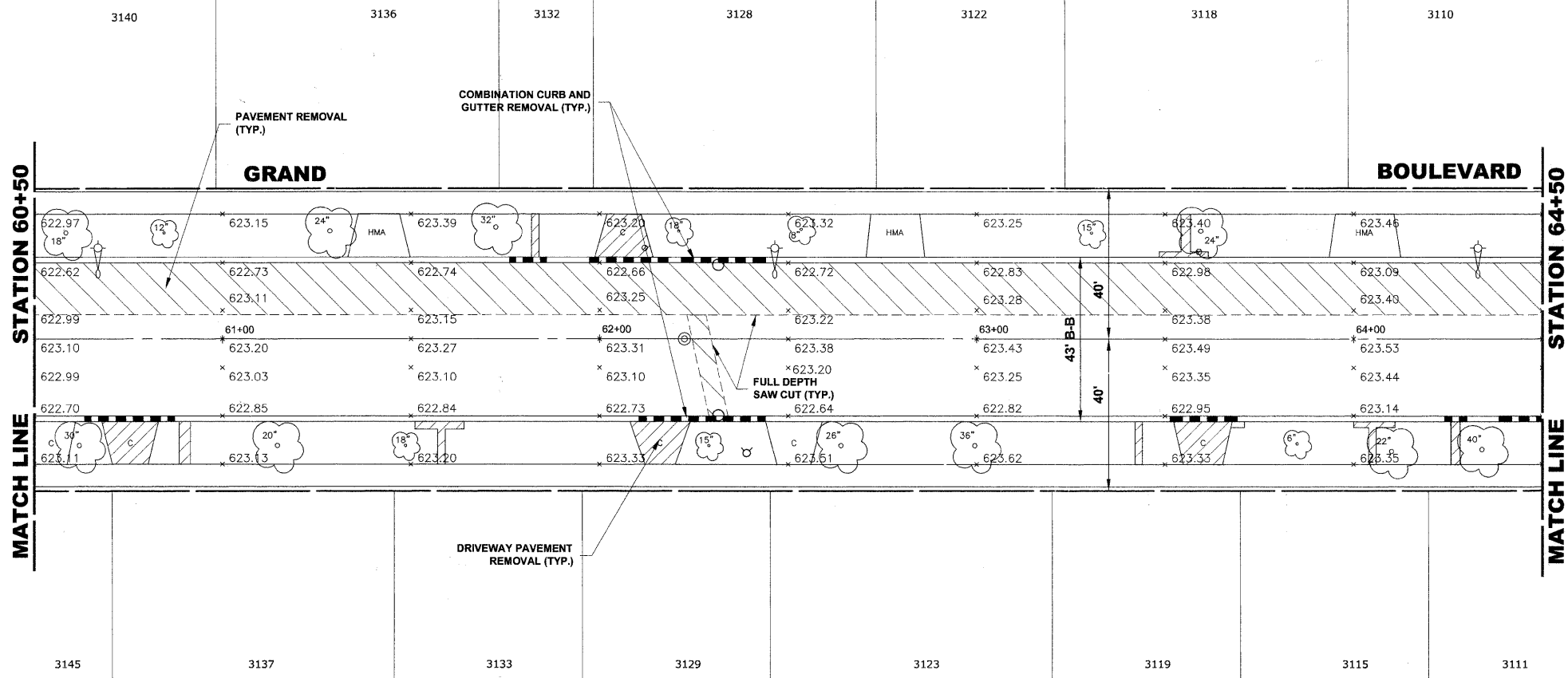
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

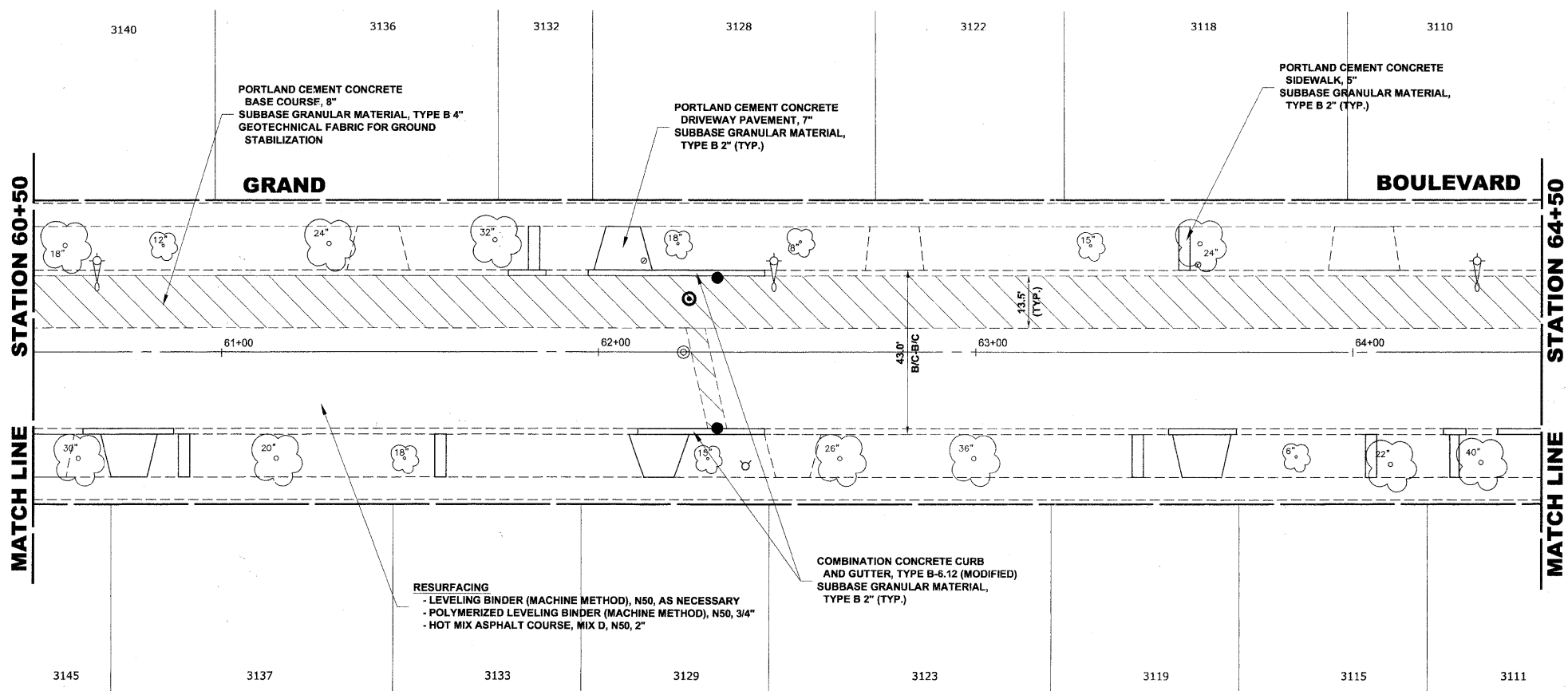
**GRAND BOULEVARD
 PAVING PLAN**
 SCALE: 1"=20'
 SHEET NO. 8 OF 10 SHEETS STA. 56+50 TO STA. 60+50

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|----------------|---------------------------------------|--------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 96 | 21 |
| FIELD BOOK NO. -JAERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineering\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:39am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -
 PLOT SCALE -
 PLOT DATE -

DESIGNED - WOP, JG
 DRAWN - MK, DMM
 CHECKED - WOP, JG
 DATE - 10-24-11

REVISED -
 REVISED -
 REVISED -
 REVISED -

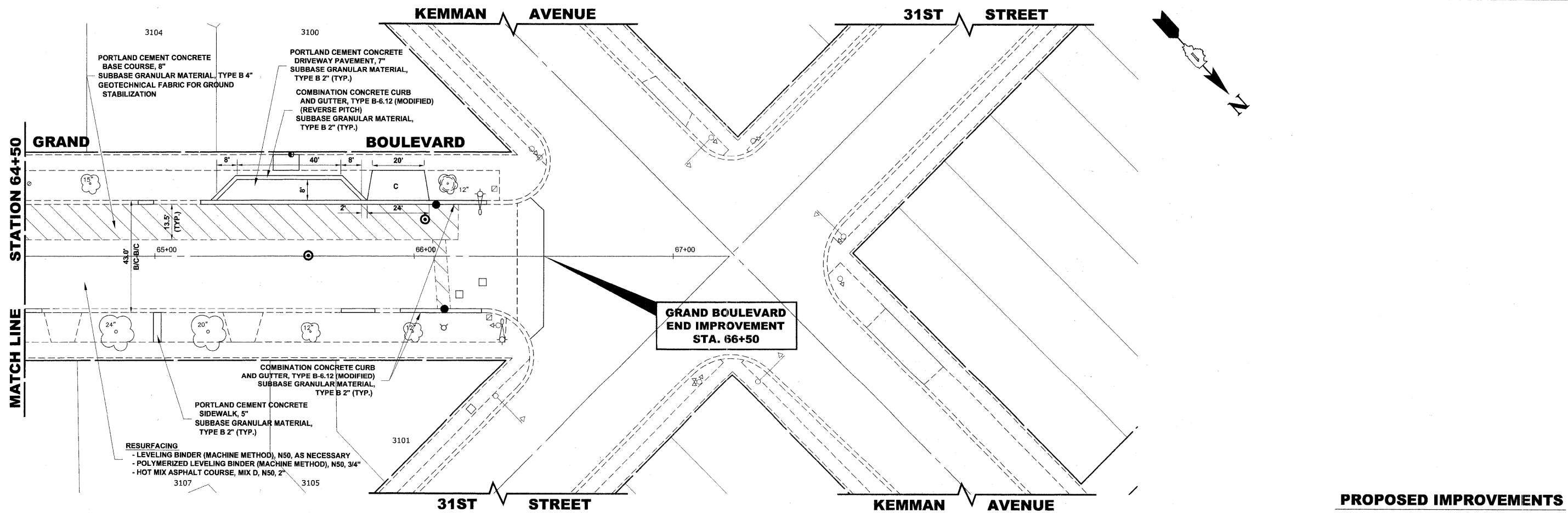
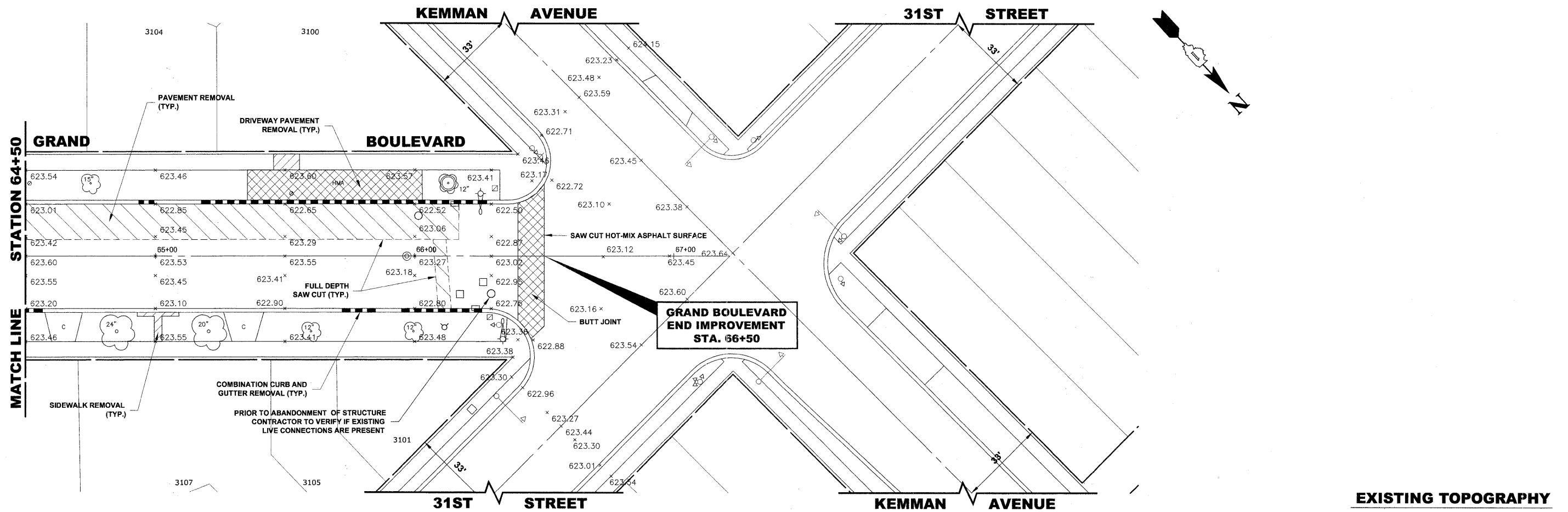
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
 PAVING PLAN**

SCALE: 1"=20'H. SHEET NO. 9 OF 10 SHEETS STA. 60+50 TO STA. 64+50

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|----------------|------------------------------|--------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 22 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg
 Oct. 26, 2011 - 10:42am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

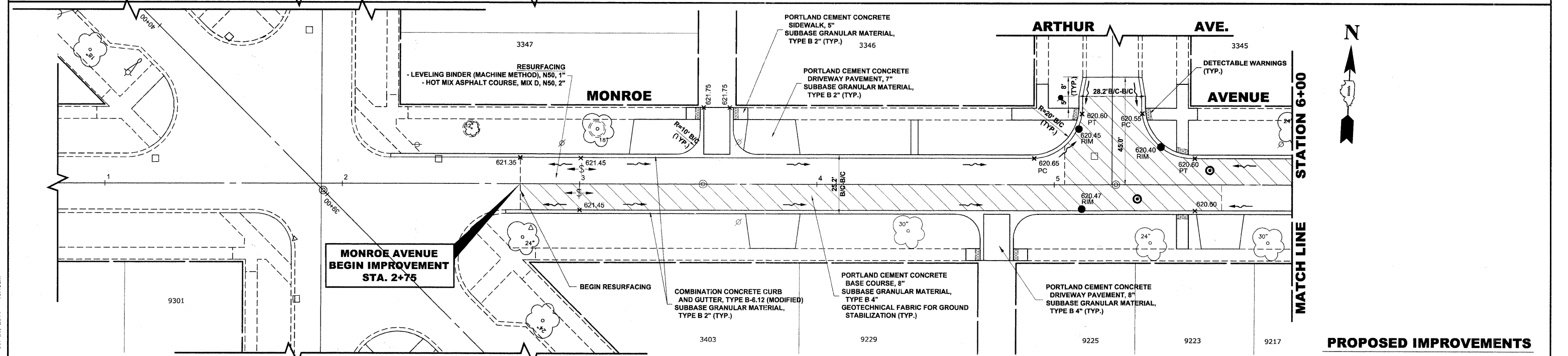
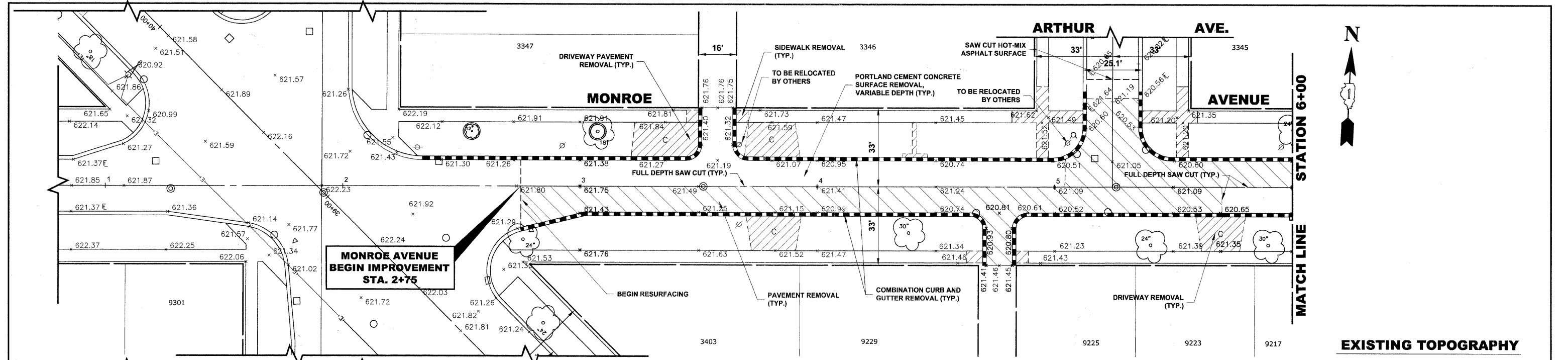
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVING PLAN
 SCALE: 1"=20'H. SHEET NO. 10 OF 10 SHEETS STA. 64+50 TO STA. 66+37

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 23 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



| STA | PROPOSED EDGE OF PAVEMENT (N,S) | PROPOSED PGL | EXISTING PGL | PROPOSED EDGE OF PAVEMENT (S) | PROPOSED EDGE OF PAVEMENT (N,S) |
|-----|---------------------------------|--------------|--------------|-------------------------------|---------------------------------|
| 622 | | | | | 622 |
| 618 | | | | | 618 |
| 614 | 621.35 (N,S) | 621.45 (N,S) | 621.25 (N,S) | 620.65 (N) | 614 |
| 610 | 621.75 | 621.85 | 621.45 | 621.05 | 610 |
| 606 | 621.40 | 621.65 | 621.45 | 621.05 | 606 |

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

DESIGNED - WOP, JG
DRAWN - MK, DMM
CHECKED - WOP, JG
DATE - 10-24-11

REVISED -
REVISED -
REVISED -
REVISED -

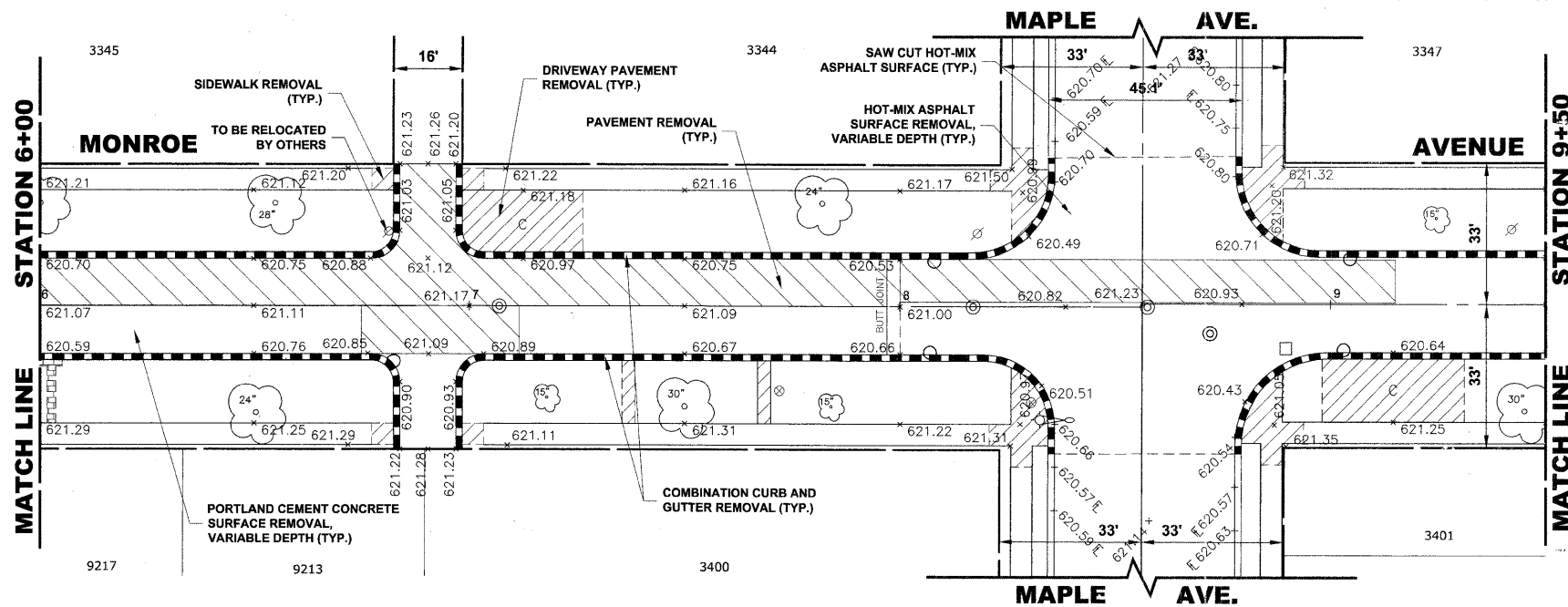
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MONROE AVENUE
PAVING PLAN AND PROFILE

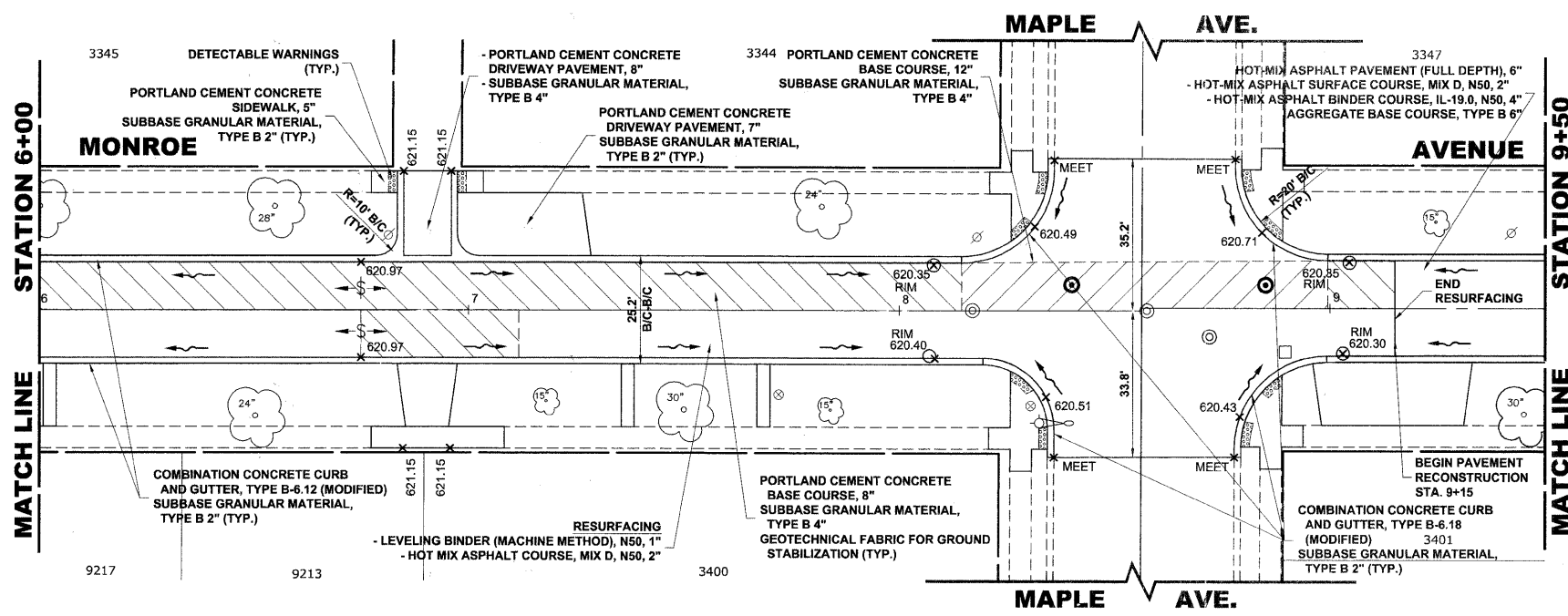
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 1 OF 8 SHEETS STA. 2+75 TO STA. 6+00

ROUTE NO. FAU 1694
SECTION 07-00122-01-PV
COUNTY COOK
TOTAL SHEETS 86
SHEET NO. 24
FIELD BOOK NO. -AERIALS/ILL
CONTRACT NO. 63651
FED. ROAD DIST. NO. 1 ILLINOIS
FED. AID PROJECT M-9003(875)
E.H.E. PROJECT NO. 125-09-23201

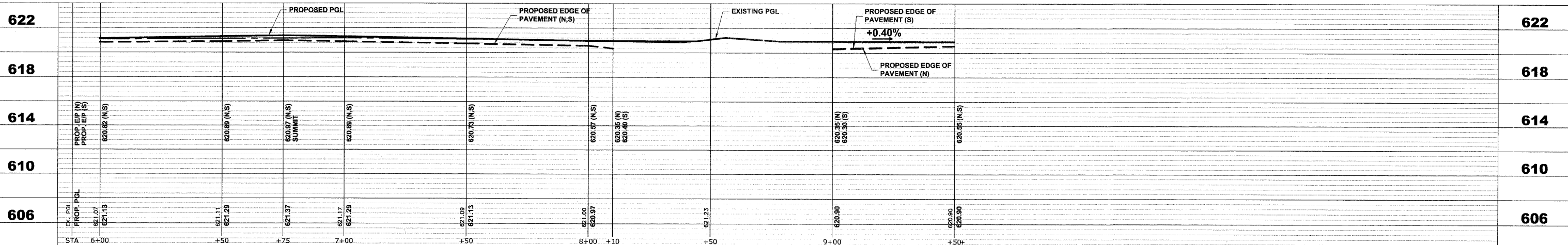
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EXISTING TOPOGRAPHY

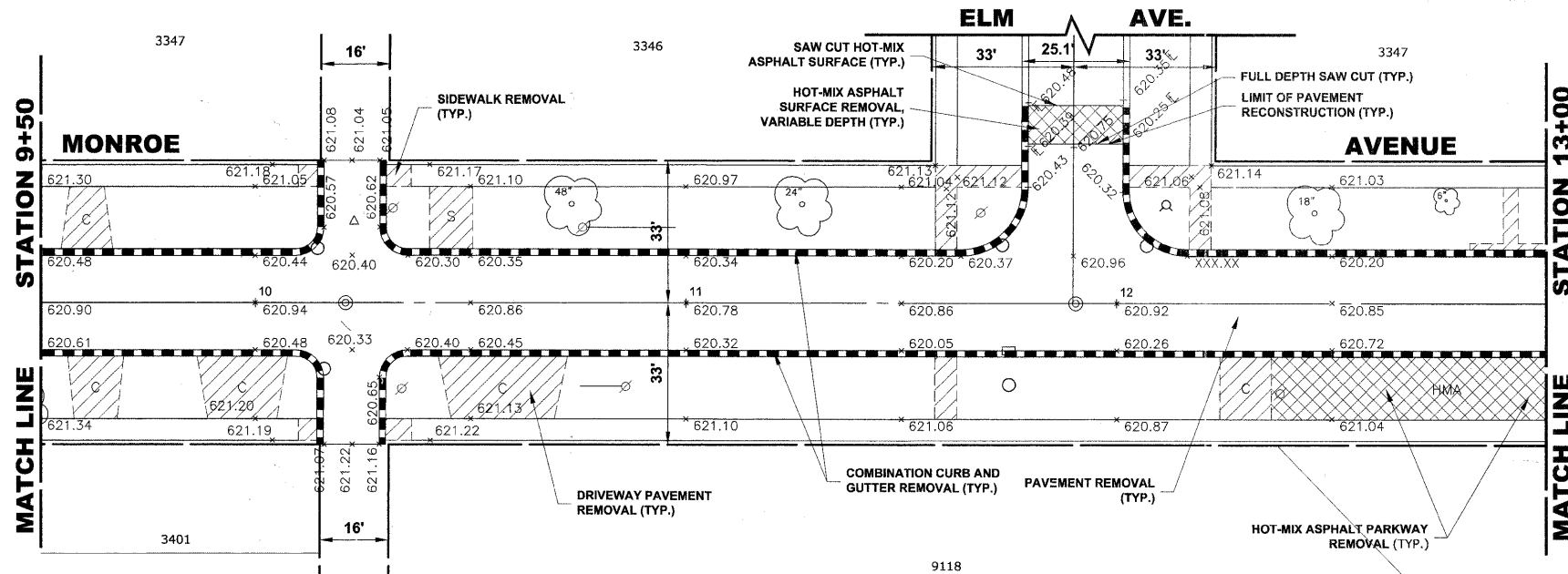


PROPOSED IMPROVEMENTS

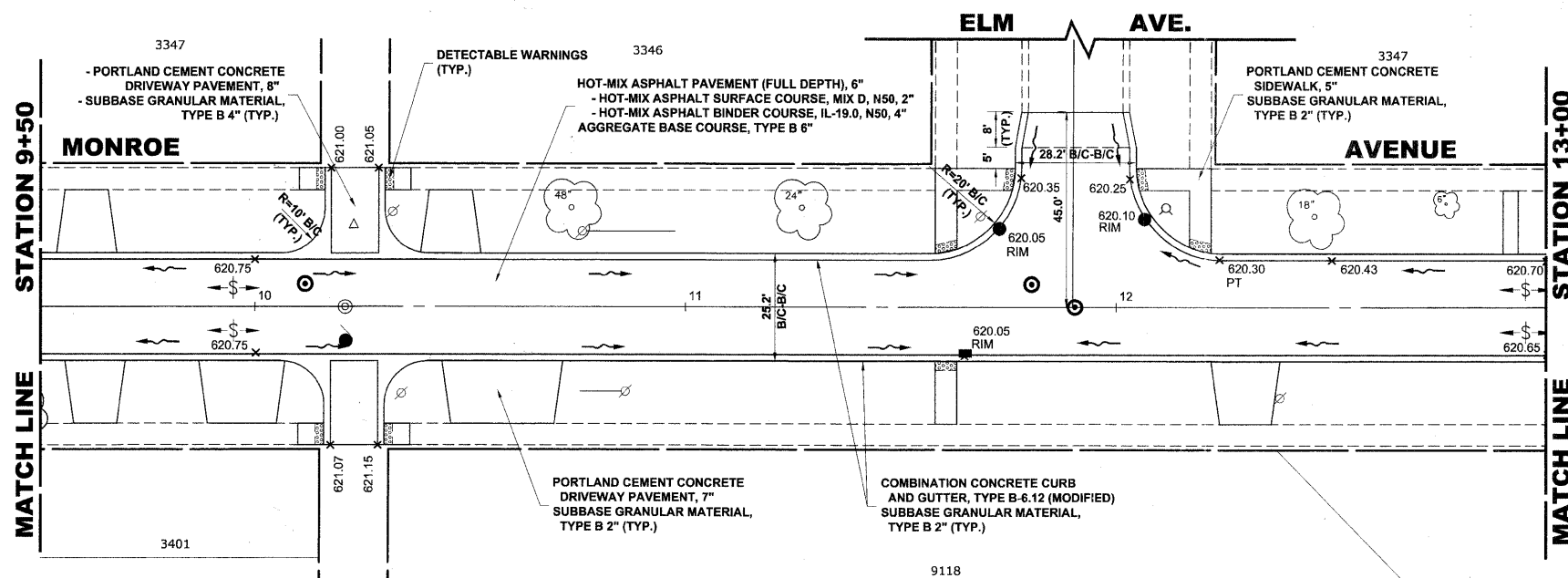


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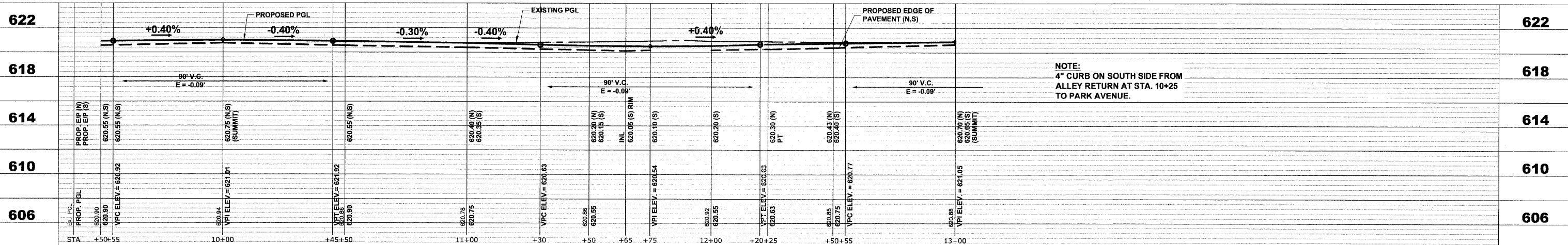
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|------------------------------------------------------------------------------------------------------|-------------------|--------------------|-----------|-------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------|----------------|------------------------------|--------------|-----------------------------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - | DESIGNED - WOP, JG | REVISED - | <p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> | <p>MONROE AVENUE PAVING PLAN AND PROFILE</p> | ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1694 | 07-00122-01-PV | COOK | 86 | 25 |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - | REVISED - | SCALE: 1"=20'H, 1"=4'V. | | SHEET NO. 2 OF 8 SHEETS | | STA. 6+00 TO STA. 9+50 | | FIELD BOOK NO. -JAERIALS/LL |
| | DATE - 10-24-11 | REVISED - | REVISED - | | | FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | CONTRACT NO. 63651 |
| E.H.E. PROJECT NO. 125-09-23201 | | | | | | | | | | |



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS



NOTE:
4" CURB ON SOUTH SIDE FROM
ALLEY RETURN AT STA. 10+25
TO PARK AVENUE.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct 26, 2011 - 10:47am

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

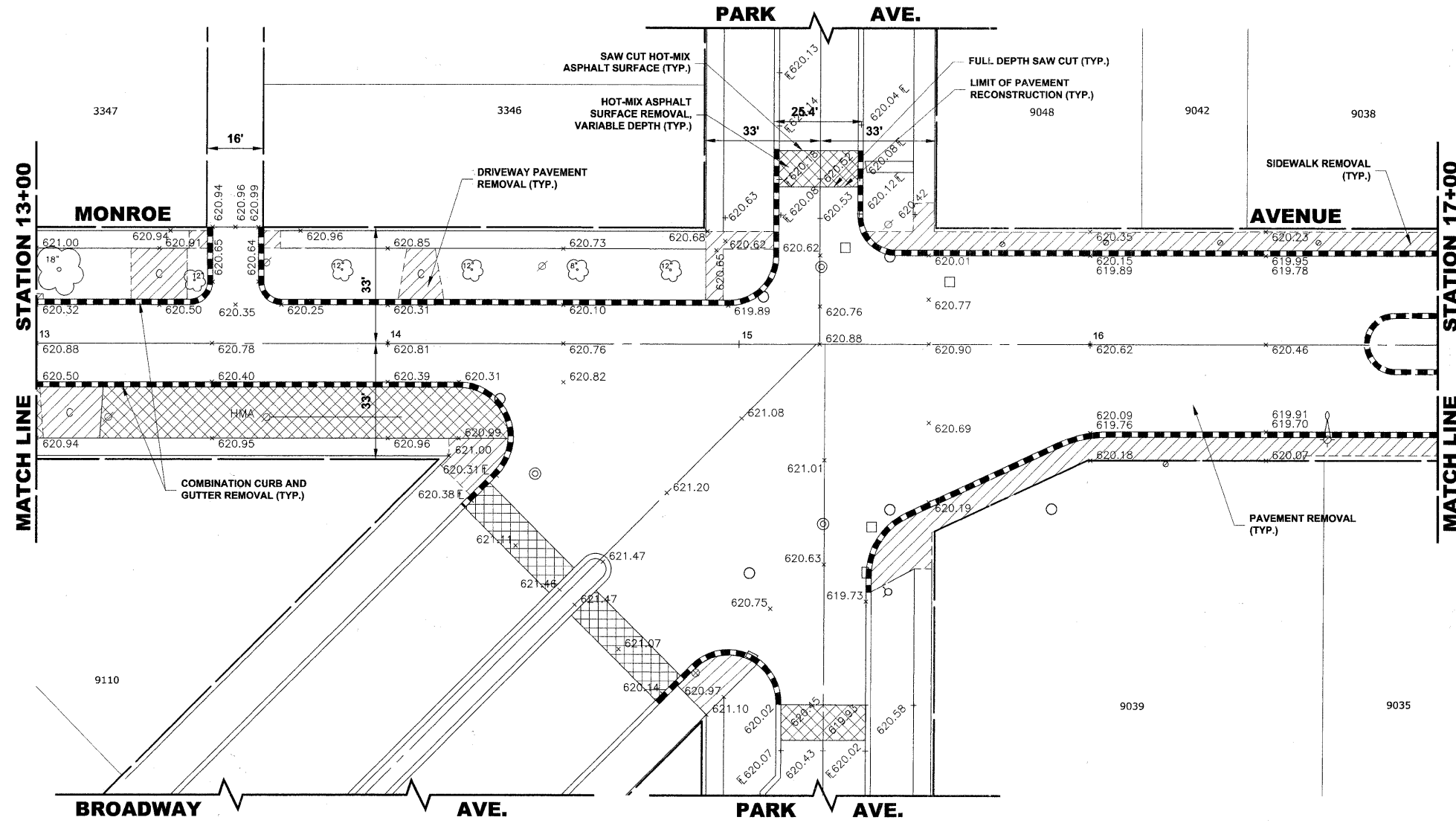
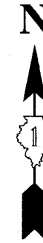
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
PAVING PLAN AND PROFILE**

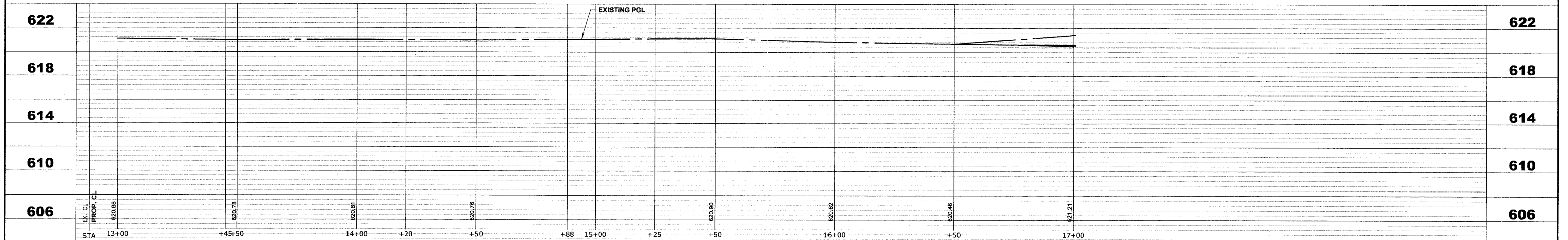
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 3 OF 8 SHEETS STA. 9+50 TO STA. 13+00

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|-----------------------|----------------|------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 26 |
| FIELD BOOK NO. | -AERIALS/LL | CONTRACT NO. | 63651 | |
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | M-9003(875) | |

E.H.E. PROJECT NO. 125-09-23201



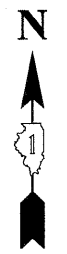
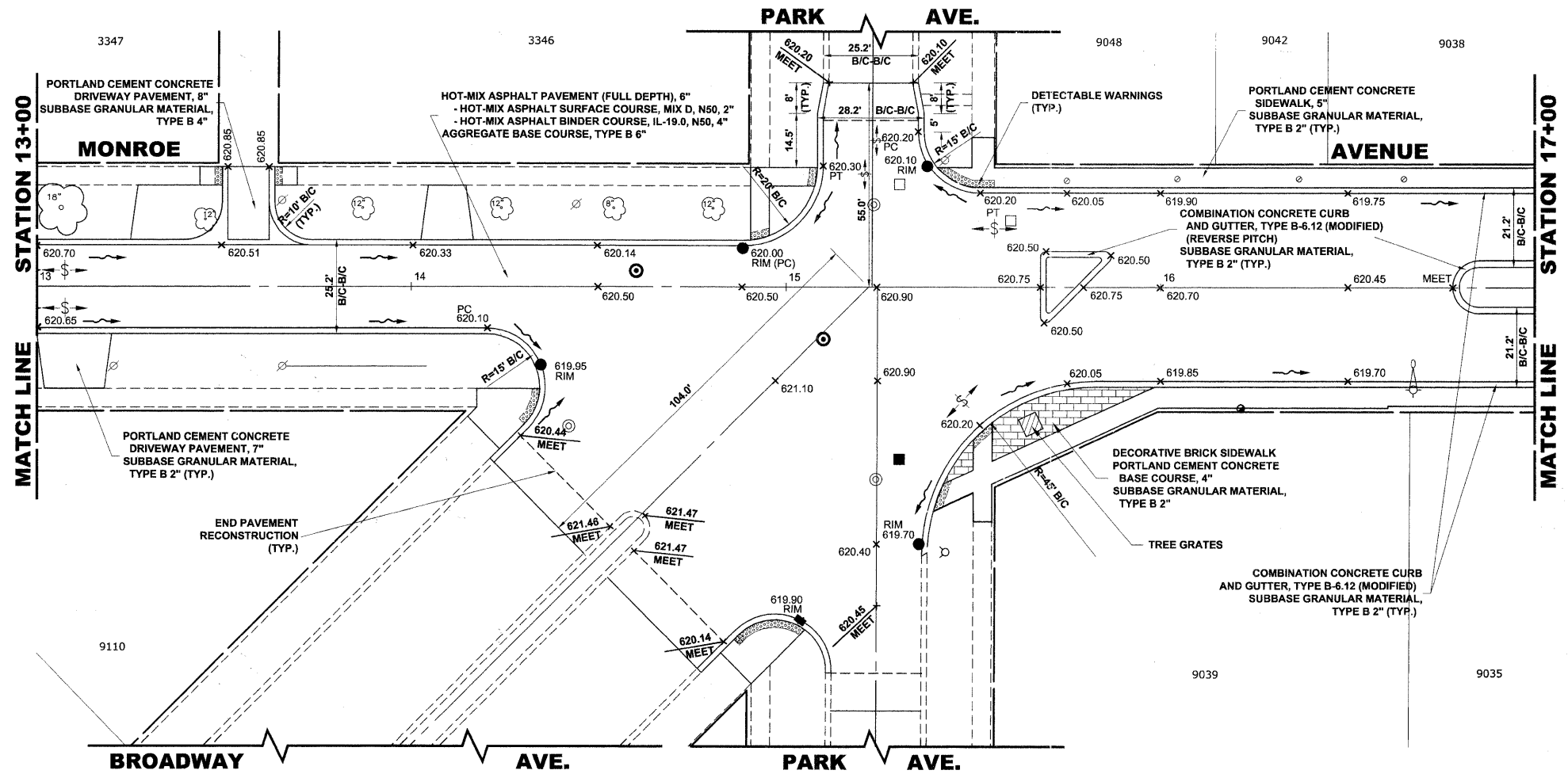
EXISTING TOPOGRAPHY



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|------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - PLOT SCALE - PLOT DATE - | DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE PAVING PLAN AND PROFILE | ROUTE NO. FAU 1684 SECTION 07-00122-01-PV COUNTY COOK FIELD BOOK NO. -AERIALS/ILL FED. ROAD DIST. NO. 1 ILLINOIS | TOTAL SHEETS 86 SHEET NO. 27 CONTRACT NO. 63651 FED. AID PROJECT M-9003(875) | SCALE: 1"=20'H. 1"=4'V. SHEET NO. 4 OF 8 SHEETS STA. 13+00 TO STA. 17+00 | E.H.E. PROJECT NO. 125-09-23201 |
|------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|

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 Oct. 24, 2011 - 4:35pm

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineers\Grand Blvd\Grand Blvd.dwg Oct 26, 2011 - 10:51am



PROPOSED IMPROVEMENTS

| STA | PROF. CL | PROPOSED EDGE OF PAVEMENT (N) | PROPOSED EDGE OF PAVEMENT (S) | PROPOSED PGL | PROPOSED EDGE OF PAVEMENT (N) | PROPOSED EDGE OF PAVEMENT (S) | 622 |
|-------|----------|-------------------------------|-------------------------------|--------------|-------------------------------|-------------------------------|-----|
| 13+00 | 620.68 | -0.40% | | | | | 622 |
| 14+50 | 620.77 | | | | | | 618 |
| 14+00 | 620.81 | | | | | | 614 |
| 15+00 | 620.76 | | | | | | 610 |
| 15+88 | 620.50 | | | | | | 606 |
| 16+00 | 620.62 | | | | | | 606 |
| 17+00 | 620.45 | | | | | | 606 |

NOTE:
4" CURB ON SOUTH SIDE FROM
ALLEY RETURN AT STA. 10+25
TO PARK AVENUE.

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

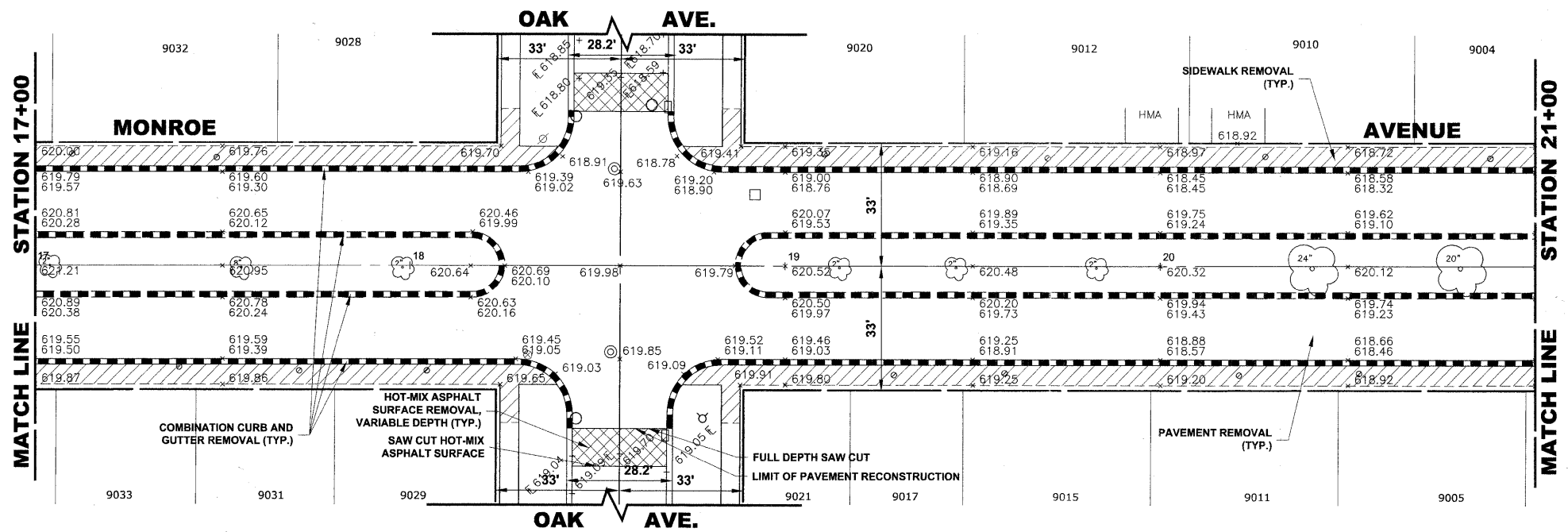
USER NAME -
DESIGNED - WOP, JG
DRAWN - MK, DMM
CHECKED - WOP, JG
DATE - 10-24-11

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REVISÉ -
REVISÉ -

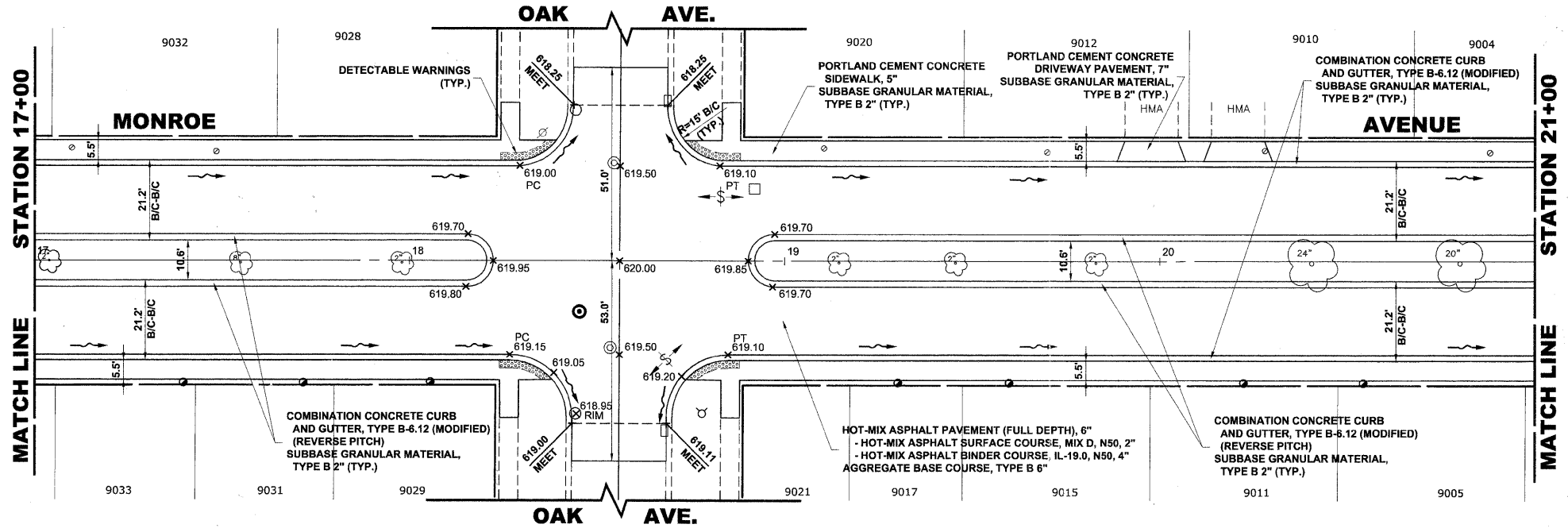
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
PAVING PLAN AND PROFILE**
SCALE: 1"=20'H. 1"=4'V.
SHEET NO. 5 OF 8 SHEETS
STA. 13+00 TO STA. 17+00

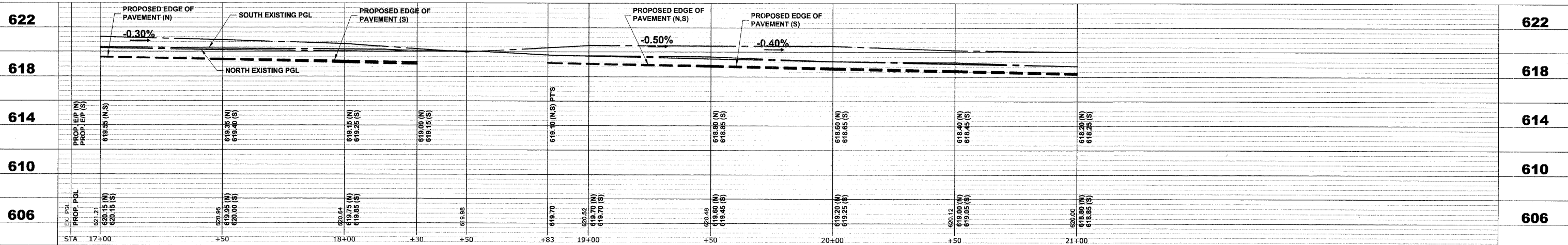
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|--------------------------------|---------------------------|------------------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 28 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS



Drawing file: W:\Projects\2509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:52am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

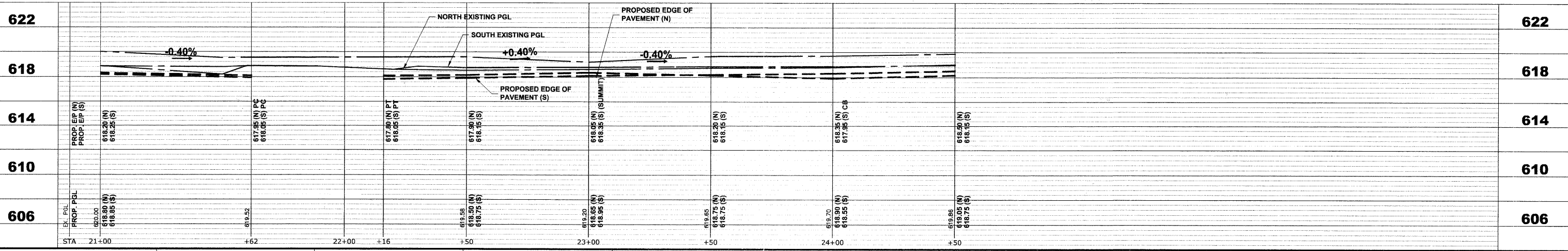
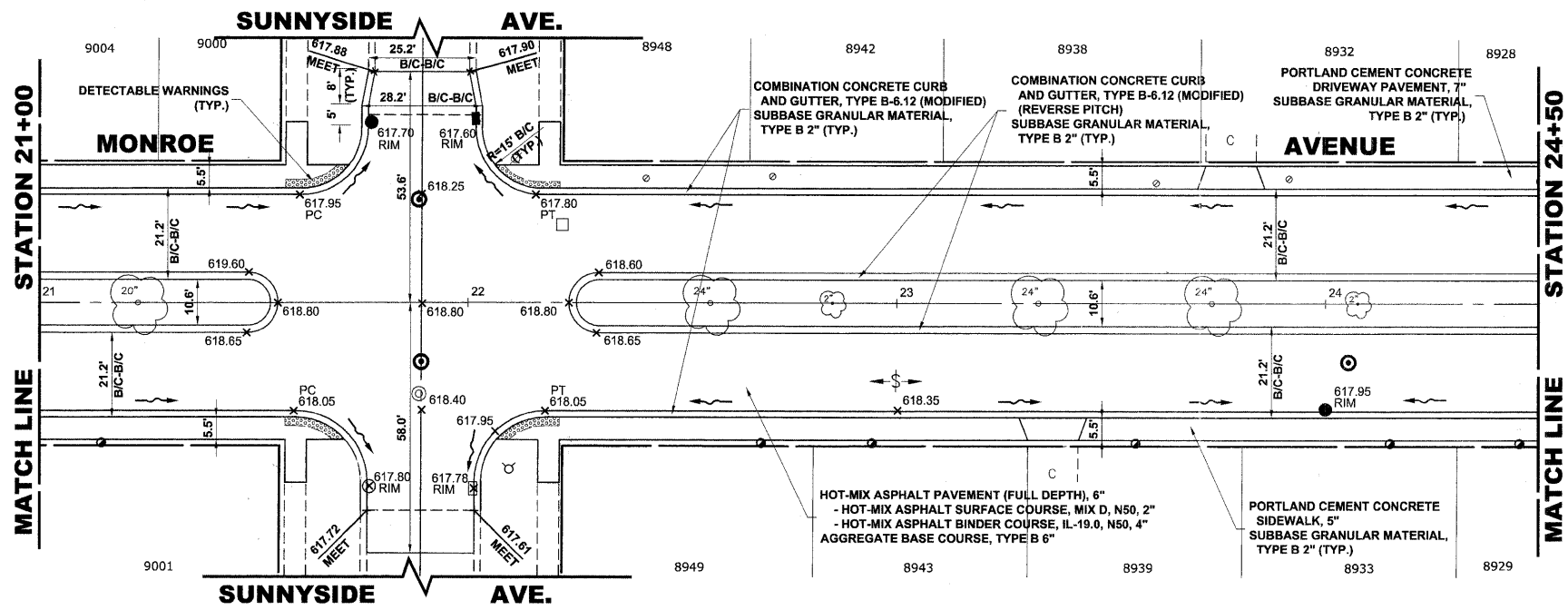
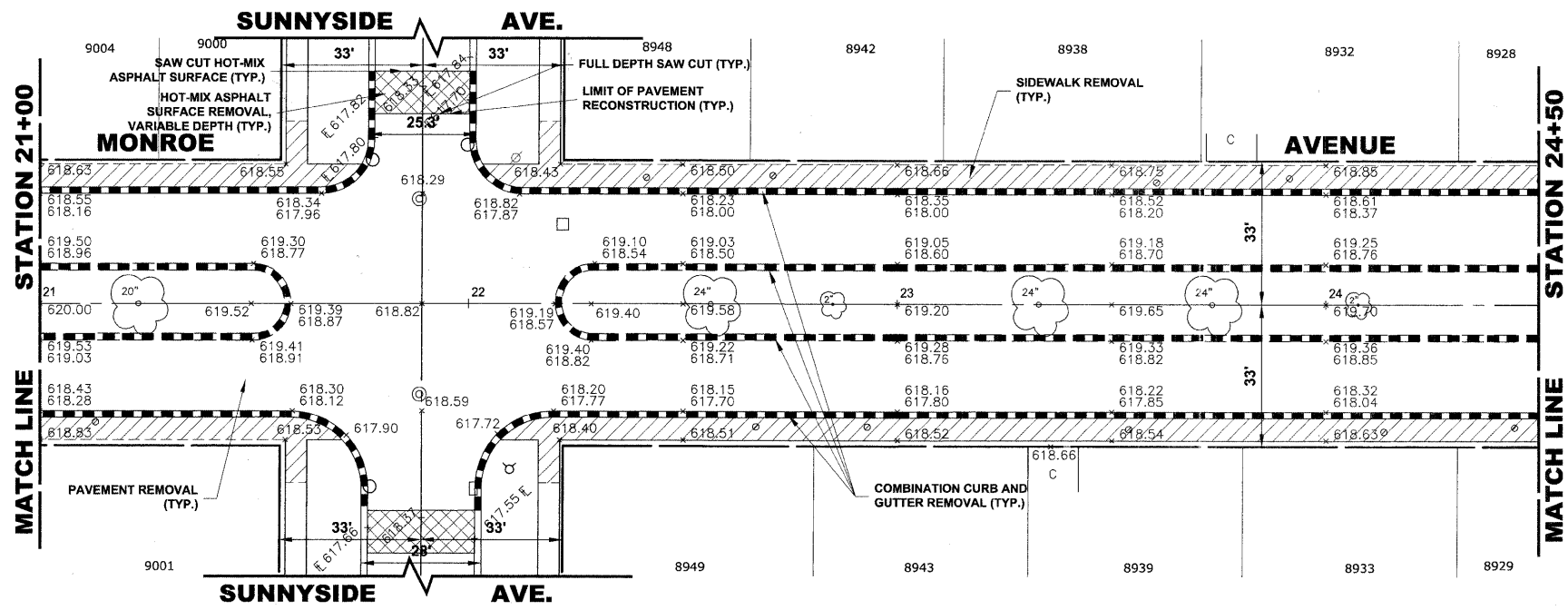
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
 PAVING PLAN AND PROFILE**

SCALE: 1"=20'H. 1"=4'V. SHEET NO. 6 OF 8 SHEETS STA. 17+00 TO STA. 21+00

| | | | | |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 29 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |



Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 10:53am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

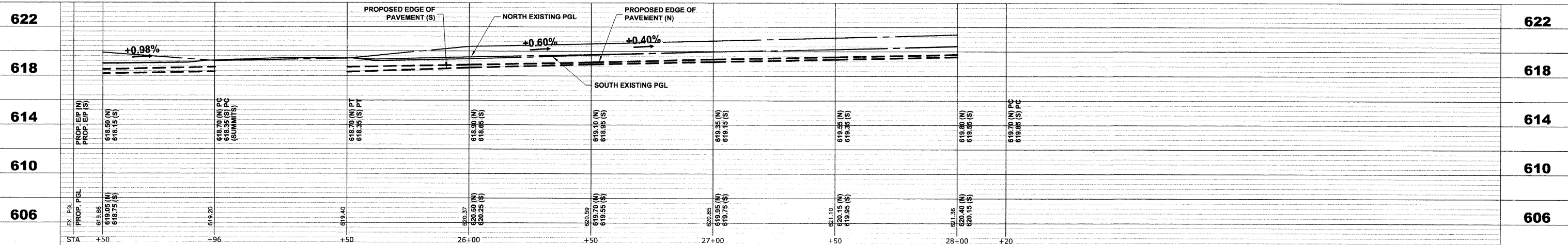
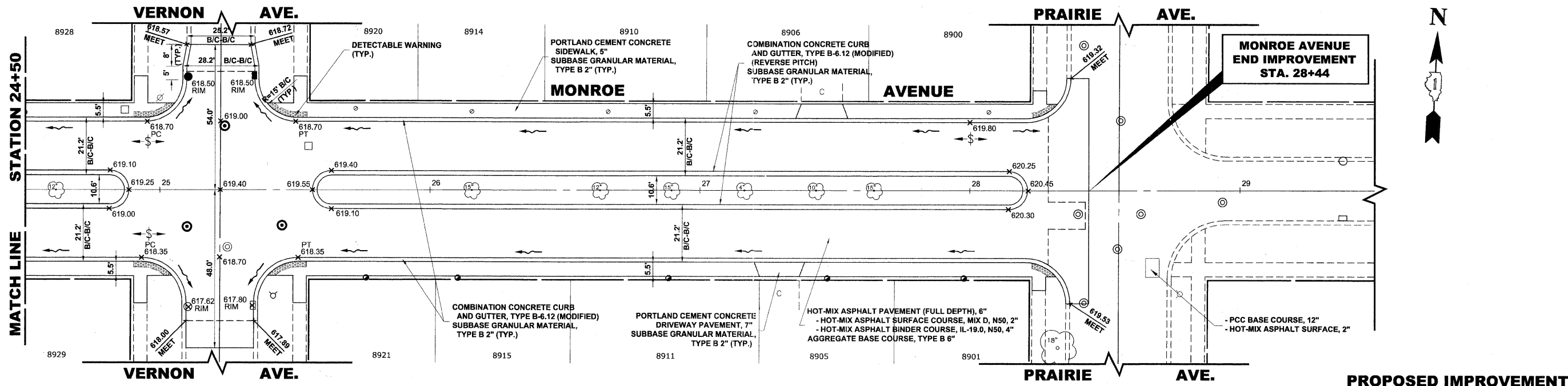
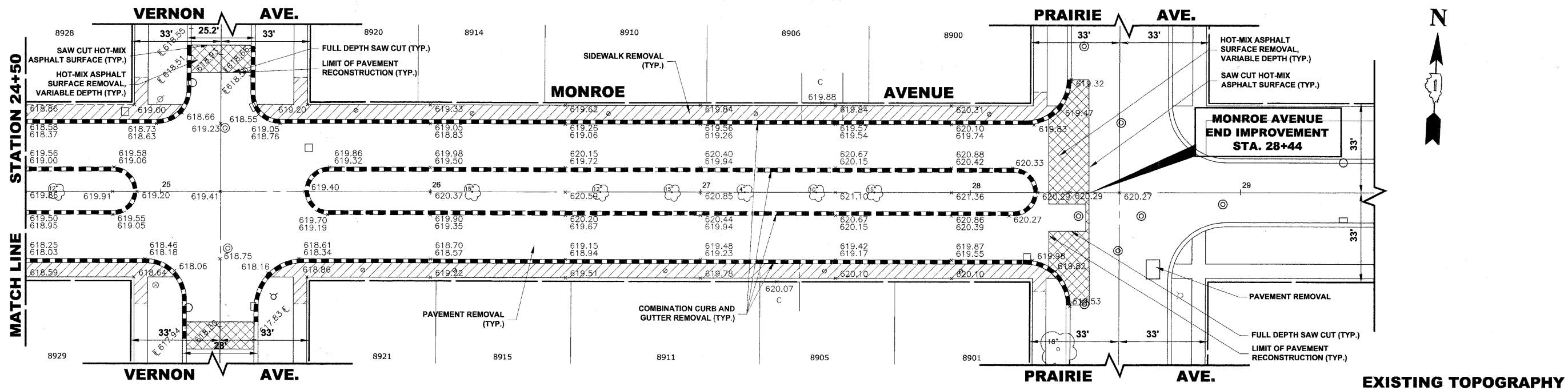
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
PAVING PLAN AND PROFILE**

SCALE: 1"=20'H, 1"=4'V. SHEET NO. 7 OF 8 SHEETS STA. 21+00 TO STA. 24+50

| | | | | |
|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 30 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

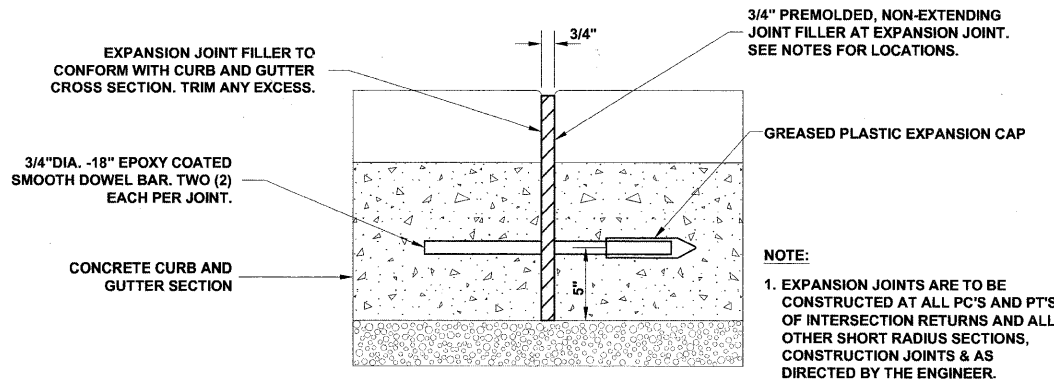
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
 PAVING PLAN AND PROFILE**

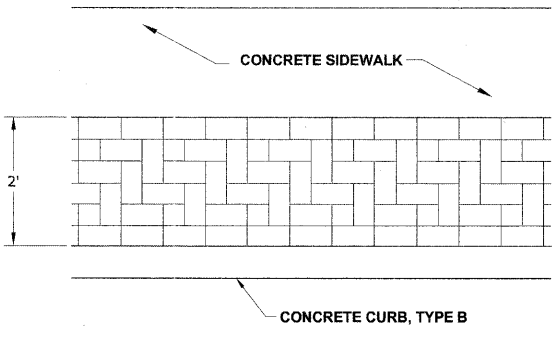
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 8 OF 8 SHEETS STA. 24+50 TO STA. 28+37

| | | | | |
|-----------------------------|---------------------------------------|---------------------------------|------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS NO. | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 31 |
| FIELD BOOK NO. -AERIALS/ILL | CONTRACT NO. 63651 | | | |
| FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT M-9003(875) | E.H.E. PROJECT NO. 125-09-23201 | | |

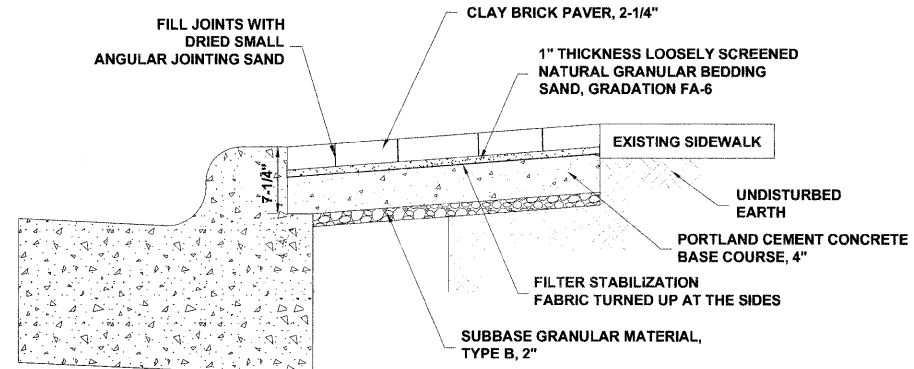
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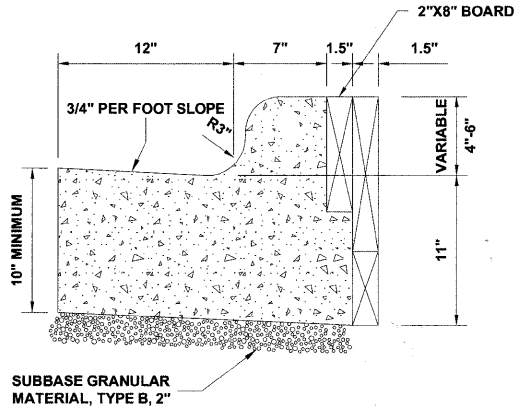
TYPICAL CURB AND GUTTER EXPANSION JOINT



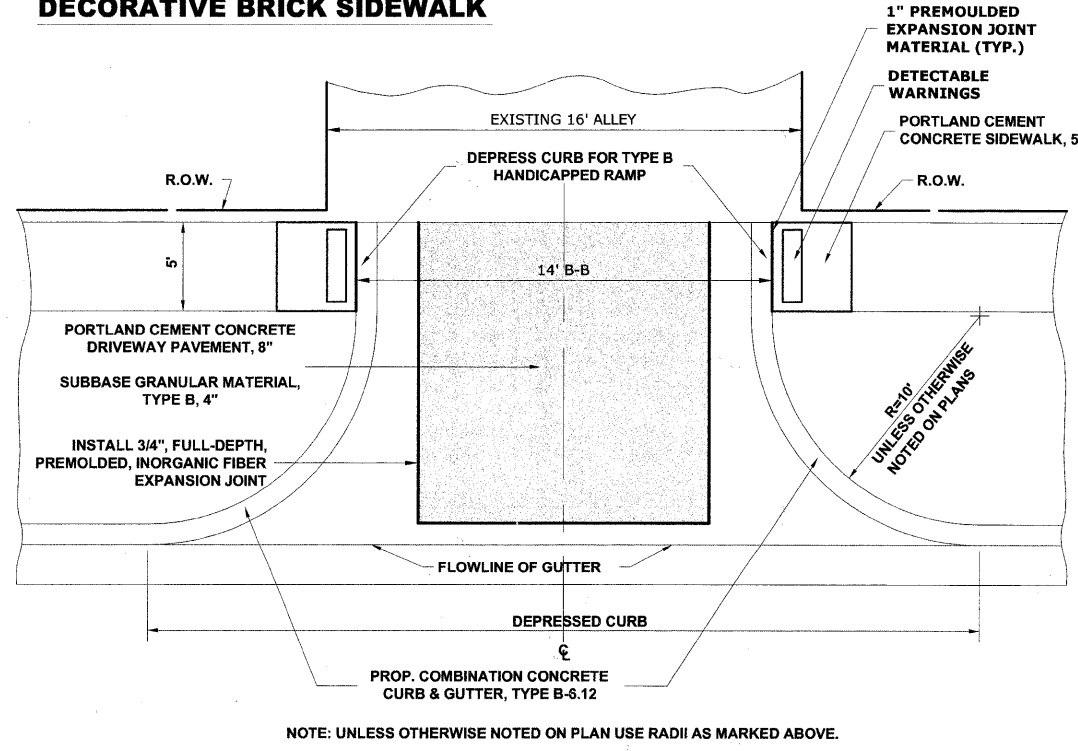
DECORATIVE BRICK SIDEWALK PATTERN DETAIL



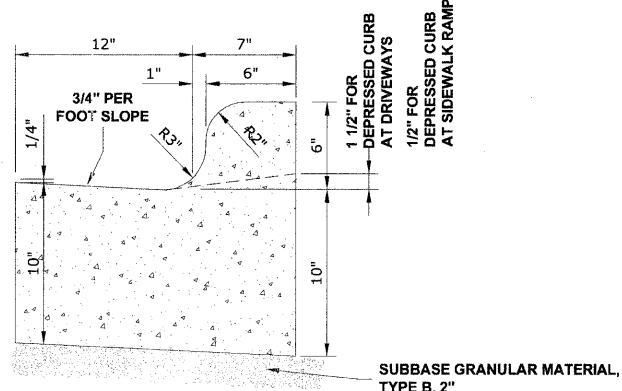
DECORATIVE BRICK SIDEWALK DETAIL



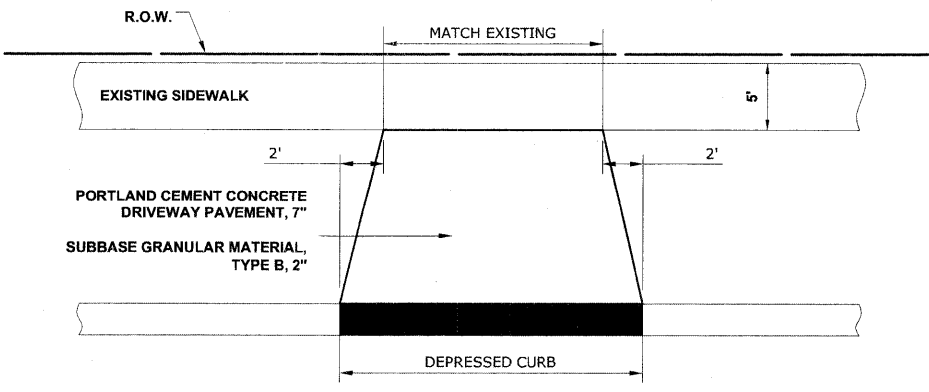
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED) ADJACENT TO SIDEWALK AND DECORATIVE BRICK SIDEWALK



CONCRETE ALLEY RETURN DETAIL



COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MODIFIED)



DRIVEWAY DETAIL

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 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" EXPANSION JOINT SHALL BE INSTALLED IN THE CURB AND GUTTER A DISTANCE OF 5 FT. FROM EACH SIDE OF THE CASTING. 2-NO. 4 RE-BARS, 9' IN LENGTH, SHALL BE INCORPORATED IN THE CONTINUOUS PORTION OF CONCRETE CURB BEHIND THE CASTING.

SLIPFORM CONSTRUCTION - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4" PER FOOT OF HEIGHT TO AID IN SLIPFORM OPERATIONS.

BITUMINOUS EXPANSION JOINTS - THREE QUARTER INCH (3/4") BITUMINOUS PREMOLDED INORGANIC FIBER EXPANSION JOINTS SHALL BE INSTALLED WHERE NEW SIDEWALK OR CURB AND GUTTER OR DRIVEWAY PAVEMENT ABUTS AN EXISTING CONCRETE WALK, DRIVE, OR CURB WHICH IS TO REMAIN IN PLACE, AND AT NOT LESS THAN NINETY FOOT (90') INTERVALS AT LOCATIONS WHERE CURB REPLACEMENT IS IN EXCESS OF NINETY FEET (90'); AT RADIUS POINTS, AT BOTH SIDES OF FRAMES AND GRATES WHICH FALL IN THE CURB; AND AS DIRECTED BY THE ENGINEER.

ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4") DIAMETER, SMOOTH, ROUND, EPOXY COATED DOWEL BARS, EIGHTEEN INCHES (18") IN LENGTH, WITH GREASED PLASTIC END CAPS INSERTED TO ALLOW THE CURB AND GUTTER TO EXPAND AND CONTRACT LATERALLY. CONTRACTION JOINTS SHALL BE TOOLED INTO THE CURB AND GUTTER AT INTERVALS NOT TO EXCEED FIFTEEN FEET (15'). THESE CONTRACTION JOINTS SHALL BE SAW CUT TO A DEPTH OF TWO INCHES (2") WITHIN TWENTY-FOUR (24) HOURS OF CONCRETE PLACEMENT. THE COST OF THE ABOVE WORK SHALL BE INCLUDED IN THE RESPECTIVE ITEMS FOR CONCRETE INSTALLATION.

CURB AND GUTTER REMOVAL

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.

UNDERCUT AND POROUS GRANULAR EMBANKMENT (PGE)

A QUANTITY OF POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES), HAS BEEN PROVIDED FOR USE IF THE EXISTING SOILS ARE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES 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 WITH PGES AS DETERMINED BY THE ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY OF PGES 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 PGE.

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Roadway-Details.dwg Oct 24, 2011 - 4:18pm



| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

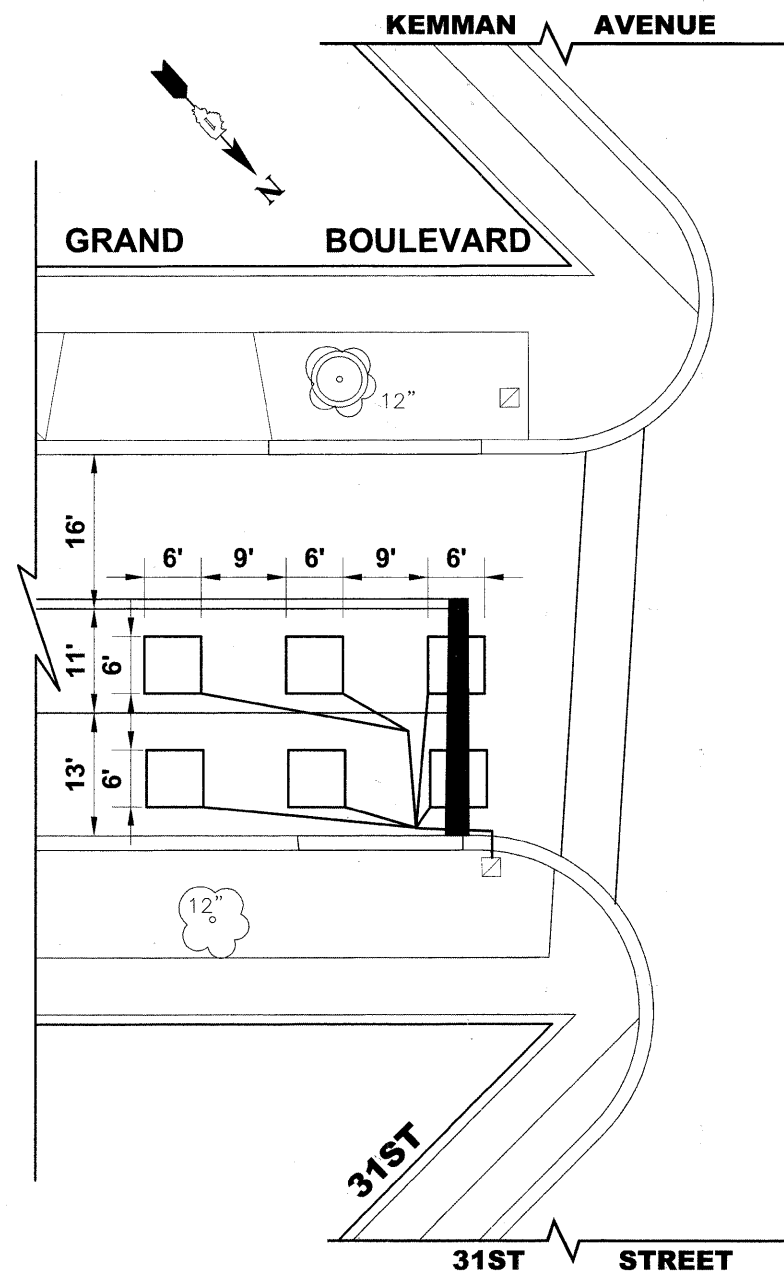
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

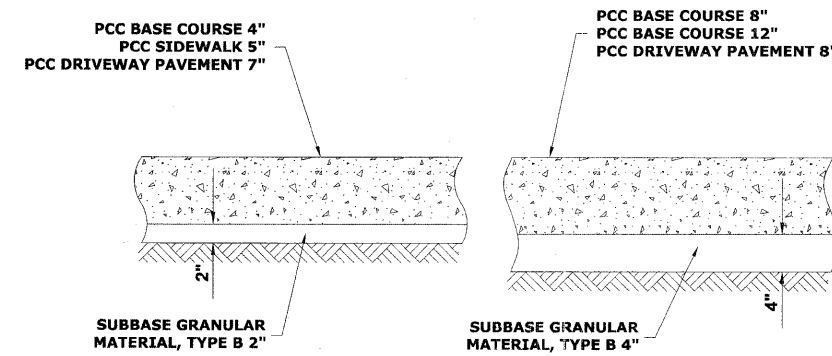
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| | | | | |
|----------------------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 32 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



DETECTOR LOOP DETAIL



TYPICAL P.C.C. SIDEWALK, DRIVEWAY, PAVEMENT, & BASE DETAIL

PAVEMENT CORE SUMMARY

| BORE | STREET | STATION | LANE | BITUMINOUS | CONC. BASE | TOTAL |
|-------|--------|---------|-----------------------|------------|------------|-------|
| PC-1 | GRAND | 65+40 | SOUTHEAST BOUND INNER | 4" | 0" | 4" |
| PC-2 | GRAND | 65+40 | NORTHWEST BOUND INNER | 5½" | 0" | 5½" |
| PC-3 | GRAND | 65+40 | NORTHWEST BOUND OUTER | 4½" | 0" | 4½" |
| SB-1 | GRAND | 65+40 | SOUTHEAST BOUND OUTER | 6" | 0" | 6" |
| PC-4 | GRAND | 60+75 | SOUTHEAST BOUND INNER | 4½" | 0" | 4½" |
| PC-5 | GRAND | 60+75 | NORTHWEST BOUND INNER | 4½" | 0" | 4½" |
| PC-6 | GRAND | 60+75 | NORTHWEST BOUND OUTER | 4½" | 0" | 4½" |
| SB-2 | GRAND | 60+75 | SOUTHEAST BOUND OUTER | 4" | 0" | 4" |
| PC-7 | GRAND | 56+25 | SOUTHEAST BOUND INNER | 3" | 8½" | 11½" |
| PC-8 | GRAND | 56+25 | NORTHWEST BOUND INNER | 2½" | 9" | 11½" |
| PC-9 | GRAND | 56+25 | NORTHWEST BOUND OUTER | 3¼" | 0" | 3¼" |
| SB-3 | GRAND | 56+25 | SOUTHEAST BOUND OUTER | 4" | 0" | 4" |
| PC-10 | GRAND | 51+70 | SOUTHEAST BOUND INNER | 3" | 9" | 12" |
| PC-11 | GRAND | 51+70 | NORTHWEST BOUND INNER | 3½" | 9" | 12½" |
| PC-12 | GRAND | 51+70 | NORTHWEST BOUND OUTER | 3" | 0" | 3" |
| SB-4 | GRAND | 51+70 | SOUTHEAST BOUND OUTER | 4" | 0" | 4" |
| PC-13 | GRAND | 46+05 | SOUTHEAST BOUND INNER | 2½" | 9" | 11½" |
| PC-14 | GRAND | 46+05 | NORTHWEST BOUND INNER | 3½" | 8½" | 11½" |
| PC-15 | GRAND | 46+05 | NORTHWEST BOUND OUTER | 3" | 10" | 13" |
| SB-5 | GRAND | 46+05 | SOUTHEAST BOUND OUTER | 3" | 8" | 11" |
| PC-16 | GRAND | 41+40 | SOUTHEAST BOUND INNER | 3" | 13½" | 16½" |
| PC-17 | GRAND | 41+40 | NORTHWEST BOUND INNER | 4" | 8" | 12" |
| PC-18 | GRAND | 41+40 | NORTHWEST BOUND OUTER | 4½" | 0" | 4½" |
| SB-6 | GRAND | 41+40 | SOUTHEAST BOUND OUTER | 3" | 6" | 9" |
| PC-19 | GRAND | 37+25 | SOUTHEAST BOUND INNER | 2" | 9½" | 11½" |
| PC-20 | GRAND | 37+25 | NORTHWEST BOUND INNER | 3" | 8½" | 11½" |
| PC-21 | GRAND | 37+25 | NORTHWEST BOUND OUTER | 3½" | 0" | 3½" |
| SB-7 | GRAND | 37+25 | SOUTHEAST BOUND OUTER | 4" | 6" | 10" |
| PC-22 | GRAND | 32+20 | SOUTHEAST BOUND INNER | 3" | 9" | 12" |
| PC-23 | GRAND | 32+20 | NORTHWEST BOUND INNER | 2½" | 8½" | 11" |
| PC-24 | GRAND | 32+20 | NORTHWEST BOUND OUTER | 3" | 0" | 3" |
| SB-8 | GRAND | 32+20 | SOUTHEAST BOUND OUTER | 2" | 6" | 8" |
| SB-13 | MONROE | 5+80 | WEST BOUND | 0" | 6" | 6" |
| SB-14 | MONROE | 10+00 | WEST BOUND | 2" | 0" | 2" |
| SB-15 | MONROE | 13+80 | WEST BOUND | 6" | 0" | 6" |
| PC-37 | MONROE | 17+25 | WEST BOUND | 4" | 4" | 8" |
| SB-16 | MONROE | 17+25 | EAST BOUND | 3" | 4½" | 7½" |
| PC-38 | MONROE | 20+05 | WEST BOUND | 4" | 4" | 8" |
| PC-39 | MONROE | 20+00 | EAST BOUND | 2½" | 6½" | 9½" |
| PC-40 | MONROE | 23+10 | WEST BOUND | 2½" | 7½" | 9½" |
| SB-17 | MONROE | 23+10 | EAST BOUND | 4" | 4" | 8" |
| PC-41 | MONROE | 27+05 | WEST BOUND | 3½" | 8" | 11½" |
| PC-42 | MONROE | 26+90 | EAST BOUND | 2½" | 8½" | 10½" |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design - Engineer\Roadway-Details.dwg Oct. 26, 2011 11:10am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911
 9513 Riverwood Road
 Westchester, Illinois 60591-7190
 Phone: 708-945-0300
 Fax: 708-945-0322

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

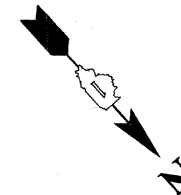
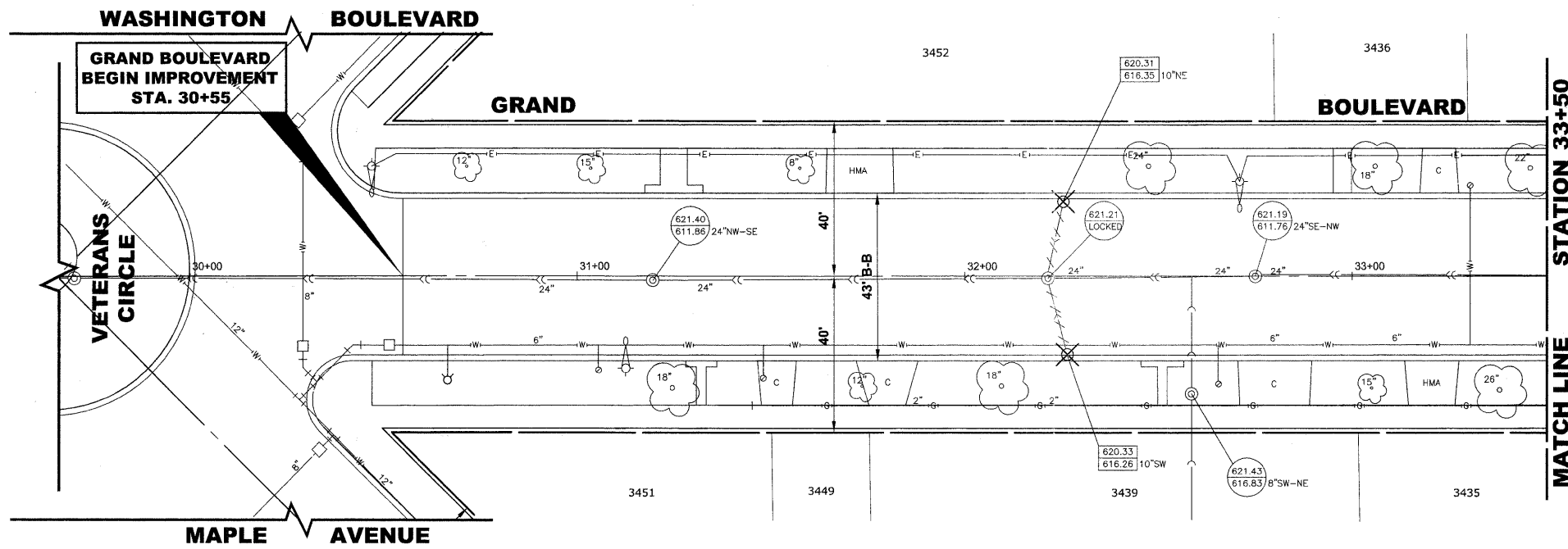
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS

SCALE: 1"=20'H. SHEET NO. 10 OF 10 SHEETS STA. 64+50 TO STA. 66+37

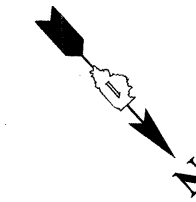
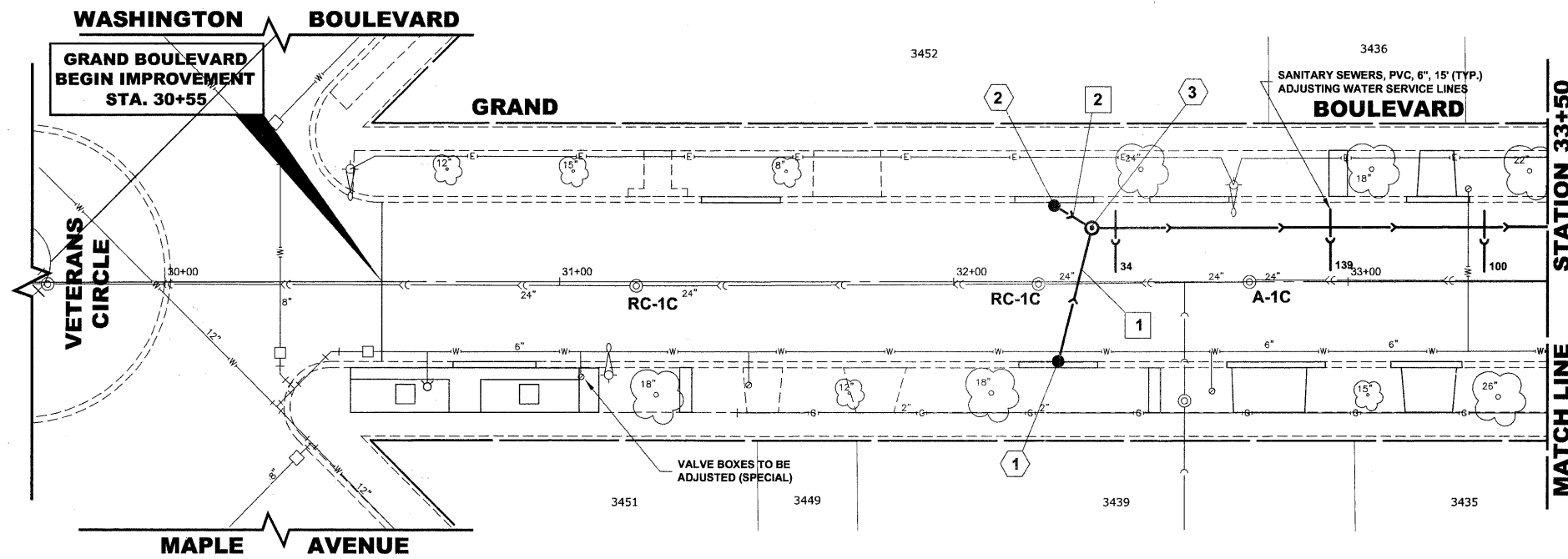
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| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 33 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-08-23201



| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM E. | INVERT ELEVATION |
|---------------|---------|--------|------------------------------------------------------|--------|------------------------------------------------------|
| 1 | 32+25 | 20' RT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 620.35 | 616.60 (10' SW) |
| 2 | 32+25 | 20' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 620.30 | 616.55 (10' N) |
| 3 | 32+35 | 14' LT | MANHOLES, TYPE A, 5' DIA, TYPE 1 FRAME, CLOSED LID | 620.80 | 614.41 (18' NW) 616.25 (10' NE) 616.45 (10' S) |

EXISTING TOPOGRAPHY



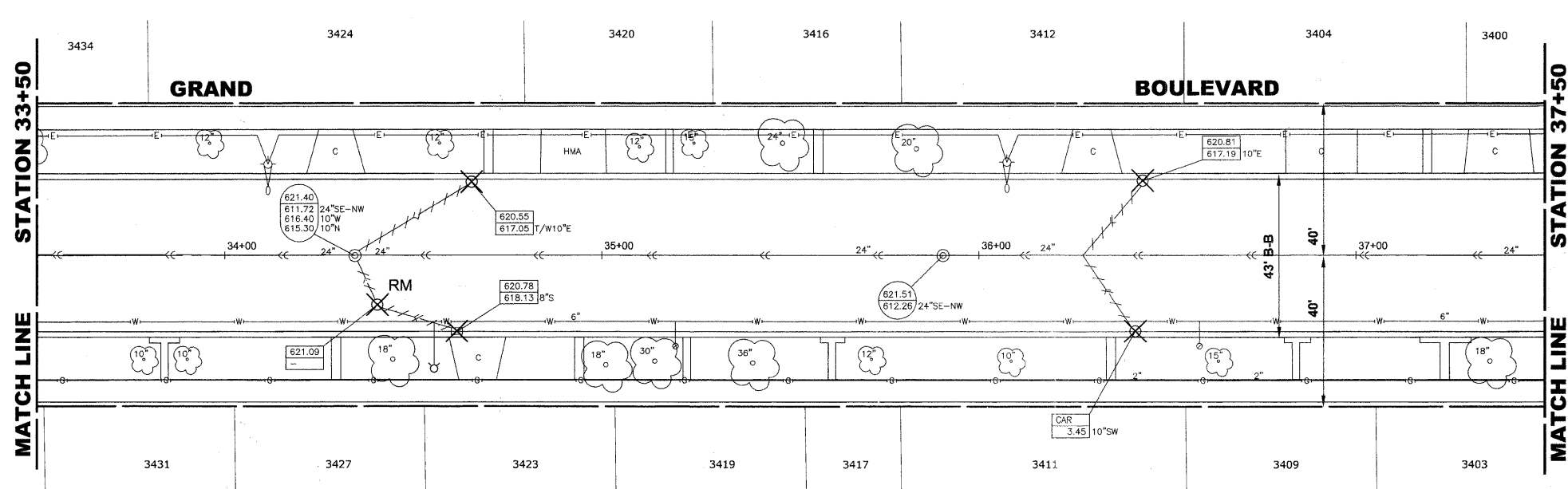
| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|---------------------|-------|----------|
| 1 | 35' | STORM SEW CL B 2 10 | 1.00% | 13.8 |
| 2 | 10' | STORM SEW CL B 2 10 | 1.00% | 2.1 |

NOTE:
FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS

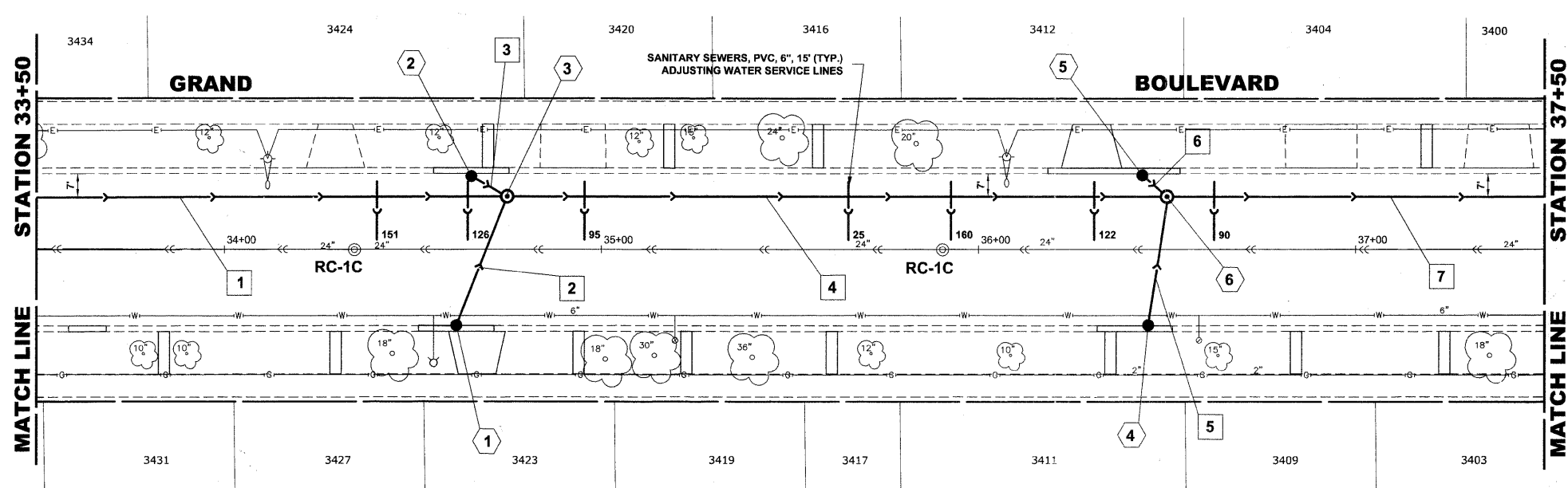
| STATION | 30+56.5 | 31+00 | +50 | 32+00 | +50 | 33+00 | +50 |
|---------|---------|-------|-----|-------|-----|-------|-----|
| 622 | | | | | | | |
| 618 | | | | | | | |
| 614 | | | | | | | |
| 610 | | | | | | | |
| 606 | | | | | | | |

| | | | | | |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. - SECTION - COUNTY - TOTAL SHEETS - SHEET NO. - |
| | PLOT SCALE - PLOT DATE - | SCALE: 1"=20'H, 1"=4'V. SHEET NO. 1 OF 10 SHEETS STA. 30+55 TO STA. 33+50 | | | FAU 1694 07-00122-01-PV COOK FIELD BOOK NO. -JAERIALS/ILL CONTRACT NO. 63651 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) |



| STRUCTURE NO. | STATION | OFFSET | TYPE | RM EL. | INVERT ELEVATION |
|---------------|---------|--------|-----------------------------------------------------|--------|-------------------------------------------------------------------------|
| 1 | 34+63 | 20' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.75 | 617.00 (10' SW) |
| 2 | 34+65 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.60 | 616.85 (10' N) |
| 3 | 34+75 | 14' LT | MANHOLES, TYPE A 5' DIA TYPE 1 FRAME, CLOSED LID | 620.95 | 613.55 (21' NW) 613.80 (18' SE) 616.65 (10' NE) 616.75 (10' S) |
| 4 | 36+45 | 20' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.75 | 617.00 (10' SW) |
| 5 | 36+45 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.80 | 617.05 (10' N) |
| 6 | 36+50 | 14' LT | MANHOLES, TYPE A 5' DIA TYPE 1 FRAME, CLOSED LID | 621.20 | 613.16 (21' NW) 613.16 (21' SE) 616.65 (10' NE) 616.95 (10' S) |

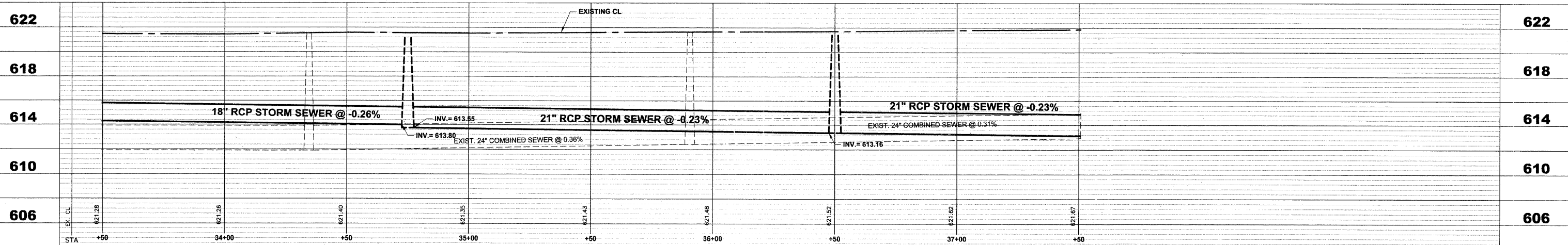
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|---------------------|-------|----------|
| 1 | 236' | SS RG CL A 2 18 | 0.26% | 118.0 |
| 2 | 35' | STORM SEW CL B 2 10 | 1.00% | 2.8 |
| 3 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 4 | 171' | SS RG CL A 2 21 | 0.23% | 110.1 |
| 5 | 35' | STORM SEW CL B 2 10 | 1.00% | 3.3 |
| 6 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 7 | 232' | SS RG CL A 2 21 | 0.23% | 163.9 |

NOTE :
FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd\Grand Blvd.dwg Oct 24, 2011 - 4:44pm

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

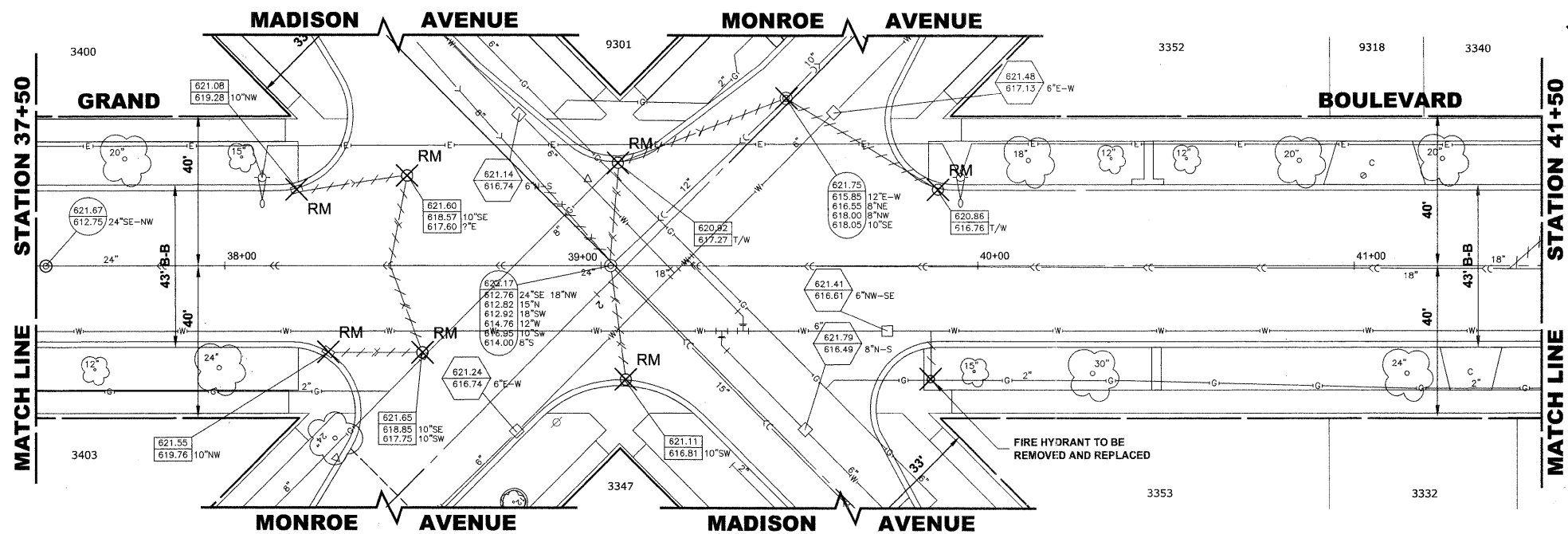
USER NAME -
DESIGNED - WOP, JG
DRAWN - MK, DMM
CHECKED - WOP, JG
DATE - 10-24-11

REVISIONS
REVISED -
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REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

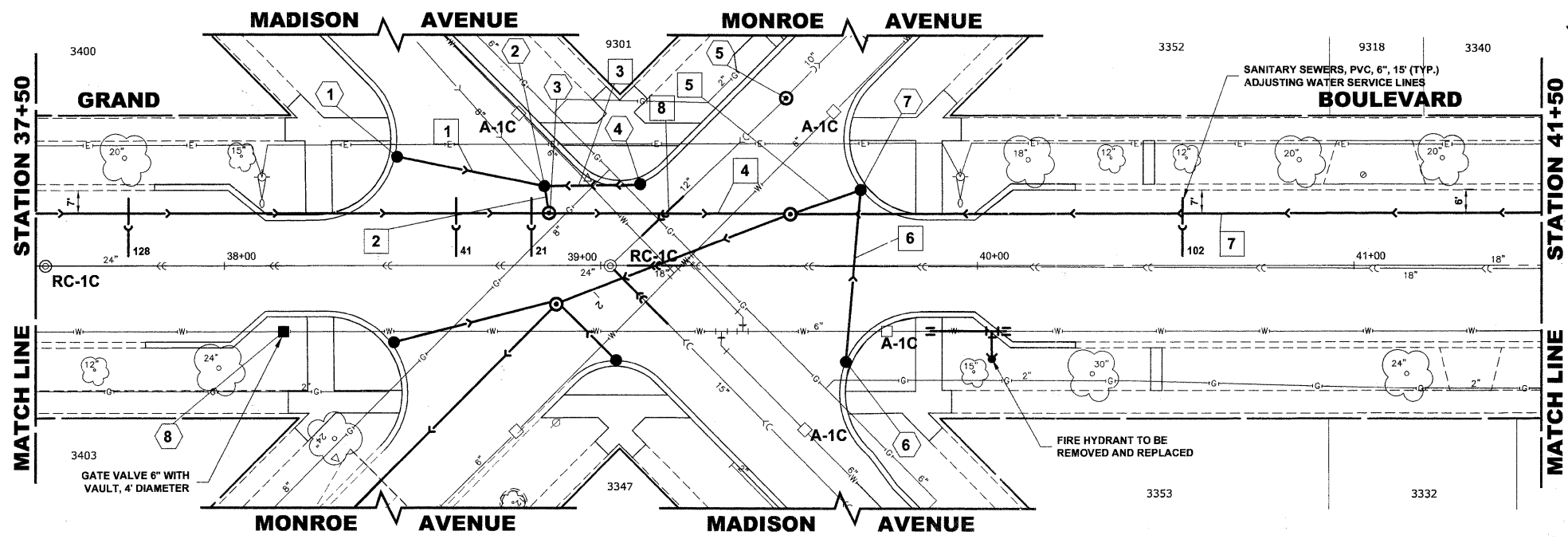
**GRAND BOULEVARD
UTILITY PLAN AND PROFILE**
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 2 OF 10 SHEETS STA. 33+50 TO STA. 37+50

| | | | | |
|---------------------------------|------------------------|---------------------------------------|-----------------|--------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 35 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |



| STRUCTURE NO. | STATION | OFFSET | TYPE | FIN. EL. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------|----------|--------------------------------------------------------|
| 1 | 38+45 | 29' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 621.05 | 617.30 (10' NNW) |
| 2 | 38+85 | 21' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 621.10 | 616.85 (12' NE) 616.85 (10' NW) 616.90 (10' SSE) |
| 3 | 38+86 | 14' LT | MANHOLES, TYPE A, 5' DIA TYPE 1 FRAME, CLOSED LID | 621.40 | 612.63 (21' SE) 612.63 (21' NW) 616.78 (12' SW) |
| 4 | 39+10 | 21' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 620.85 | 617.10 (10' SE) |
| 5 | 39+49 | 44' LT | COMBINED SEWER MANHOLE, 4' DIA TYPE 1 FRAME, CLOSED LID | 621.75 | 615.85 (12' E-W) 618.00 (8' NW) |
| 6 | 39+65 | 25' RT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 621.00 | 617.25 (10' SW) |
| 7 | 39+69 | 20' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 620.88 | 615.50 (12' E) 616.80 (10' NE) |
| 8 | 38+15 | 17' RT | VALVE VAULTS, TYPE A, 4' DIA, TYPE 1 FRAME, CLOSED LID | 622.00 | 617.00 (T/P) |

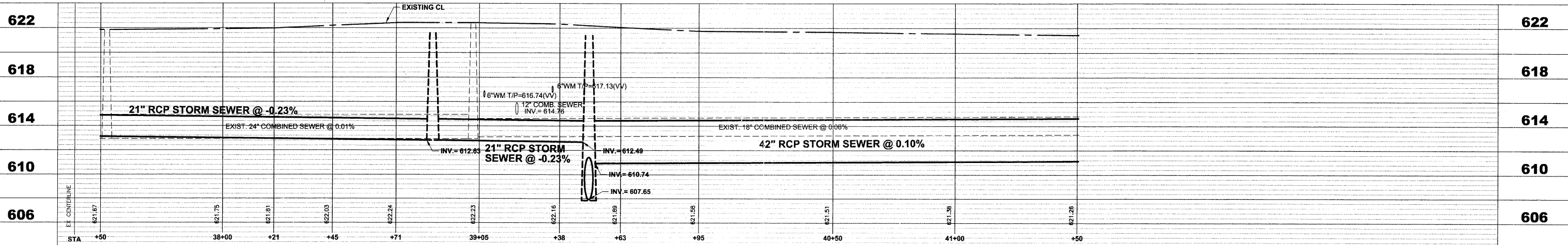
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 40' | STORM SEW CL B 2 10 | 1.00% | 1.1 |
| 2 | 7' | STORM SEW CL B 2 12 | 1.00% | 0.4 |
| 3 | 25' | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 4 | 60' | SS RG CL A 2 21 | 0.23% | 44.2 |
| 5 | 18' | STORM SEW CL B 2 12 | 1.00% | 5.0 |
| 6 | 45' | STORM SEW CL B 2 10 | 1.00% | 3.7 |
| 7 | 202' | SS RG CL A 2 42 | 0.10% | 300.0 |
| 8 | 15' | 12" PVC CS PIPE REPL | 0.194% | 6.5 |

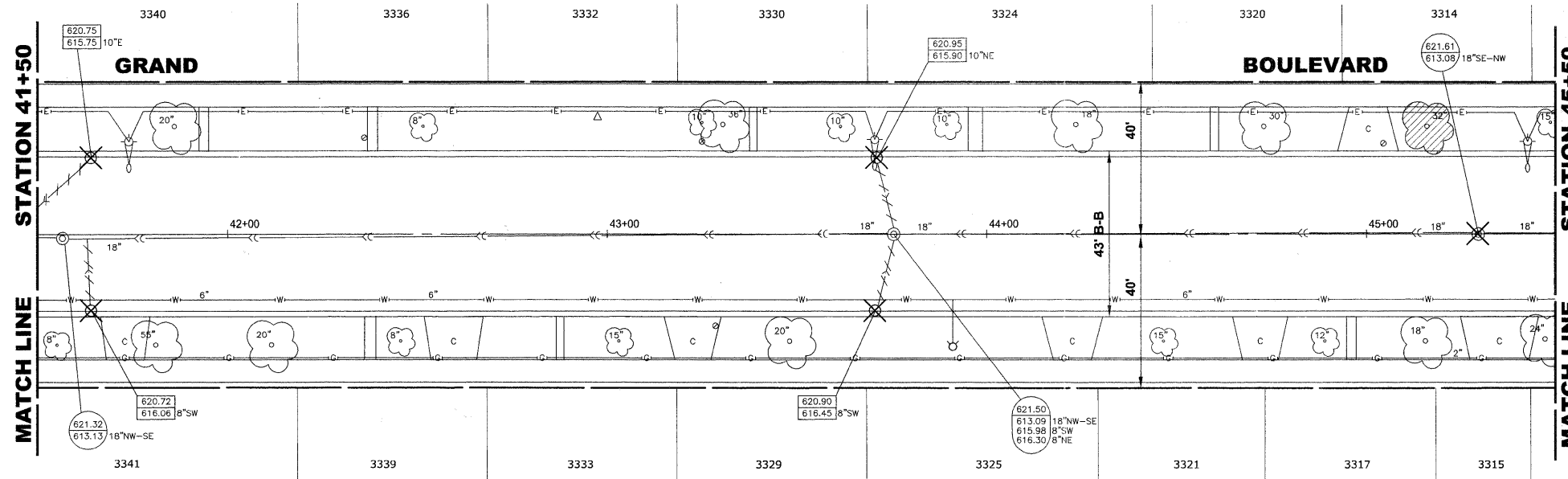
NOTE :
 FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



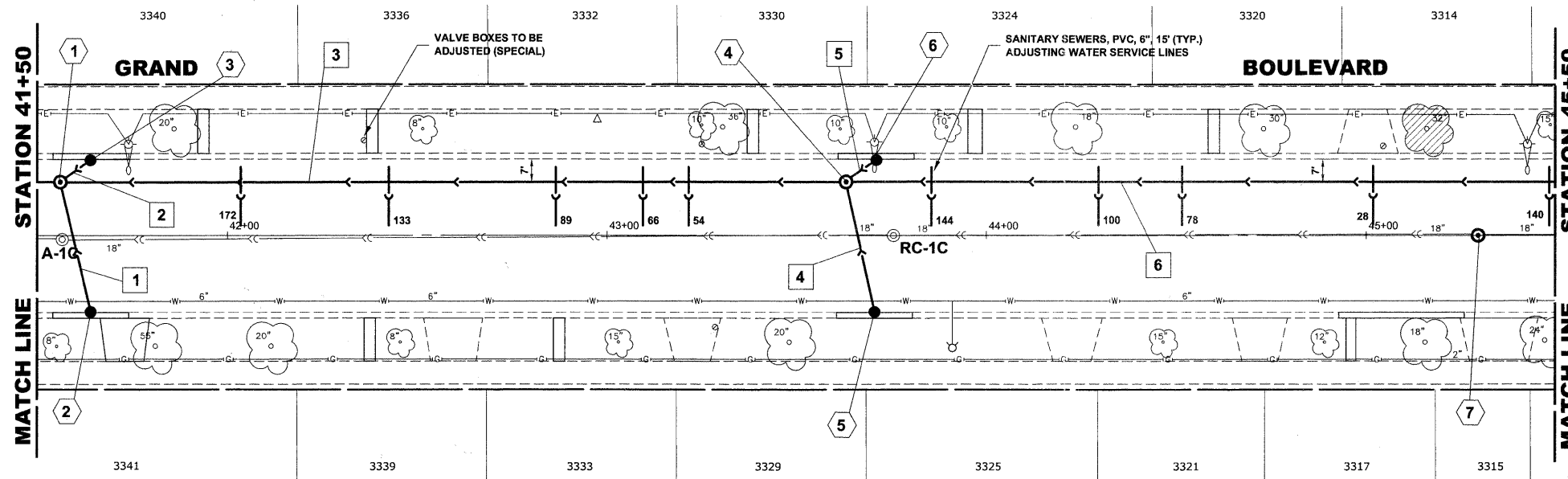
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 Oct 24, 2011 - 4:44pm
 User: mk

| | | | | | | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 | USER NAME - PLOT SCALE - PLOT DATE - | DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. - SECTION - COUNTY - TOTAL SHEETS - SHEET NO. - |
| | 9317 Riverwood Road Woodbury, Illinois 61890-1798 Phone: 708-945-6800 Fax: 708-945-1312 | FAU 1694 FIELD BOOK NO. -JAERIALS/ILL FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | COOK CONTRACT NO. 63651 | SHEET NO. 3 OF 10 SHEETS STA. 37+50 TO STA. 41+50 | SCALE: 1"=20'H, 1"=4'V. SHEET NO. 3 OF 10 SHEETS STA. 37+50 TO STA. 41+50 | E.H.E. PROJECT NO. 125-09-23201 |



| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|----------------------------------------------------------|---------|---------------------------------------------------------|
| 1 | 41+56 | 14' LT | MANHOLES, TYPE A, 5' DIA. TYPE 1 FRAME, CLOSED LID | 621.05 | 610.94 (42' SE-NW) 616.60 (10' NE) 616.90 (10' W) |
| 2 | 41+65 | 20' RT | CATCH BASINS, TYPE A, 4' DIA. TYPE 1 FRAME, OPEN LID | 620.70 | 616.95 (10' SW) |
| 3 | 41+65 | 20' LT | CATCH BASINS, TYPE A, 4' DIA. TYPE 1 FRAME, OPEN LID | 620.75 | 617.00 (10' E) |
| 4 | 43+63 | 14' LT | MANHOLES, TYPE A, 5' DIA. TYPE 1 FRAME, CLOSED LID | 621.20 | 611.12 (42' SE-NW) 616.80 (10' NE) 617.10 (10' W) |
| 5 | 43+70 | 20' RT | CATCH BASINS, TYPE A, 4' DIA. TYPE 1 FRAME, OPEN LID | 620.90 | 617.15 (10' SW) |
| 6 | 43+71 | 20' LT | CATCH BASINS, TYPE A, 4' DIA. TYPE 1 FRAME, OPEN LID | 620.95 | 617.20 (10' E) |
| 7 | 45+30 | 0' LT | COMBINED SEWER MANHOLE, 4' DIA. TYPE 1 FRAME, CLOSED LID | 621.61 | 613.08 (18' SE-NW) |

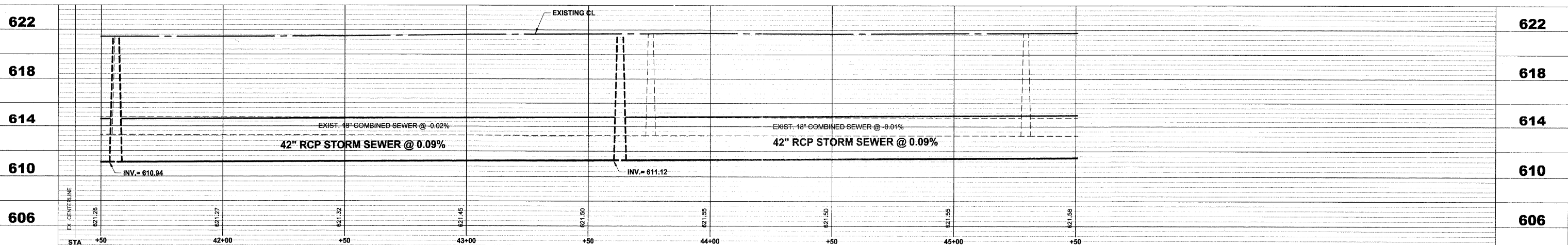
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|---------------------|-------|----------|
| 1 | 35' | STORM SEW/CL B 2 10 | 1.00% | 3.1 |
| 2 | 10' | STORM SEW/CL B 2 10 | 1.00% | 0.7 |
| 3 | 203' | SS RG CL A 2 42 | 0.09% | 295.0 |
| 4 | 35' | STORM SEW/CL B 2 10 | 1.00% | 2.5 |
| 5 | 10' | STORM SEW/CL B 2 10 | 1.00% | 0.7 |
| 6 | 206' | SS RG CL A 2 42 | 0.23% | 295.6 |

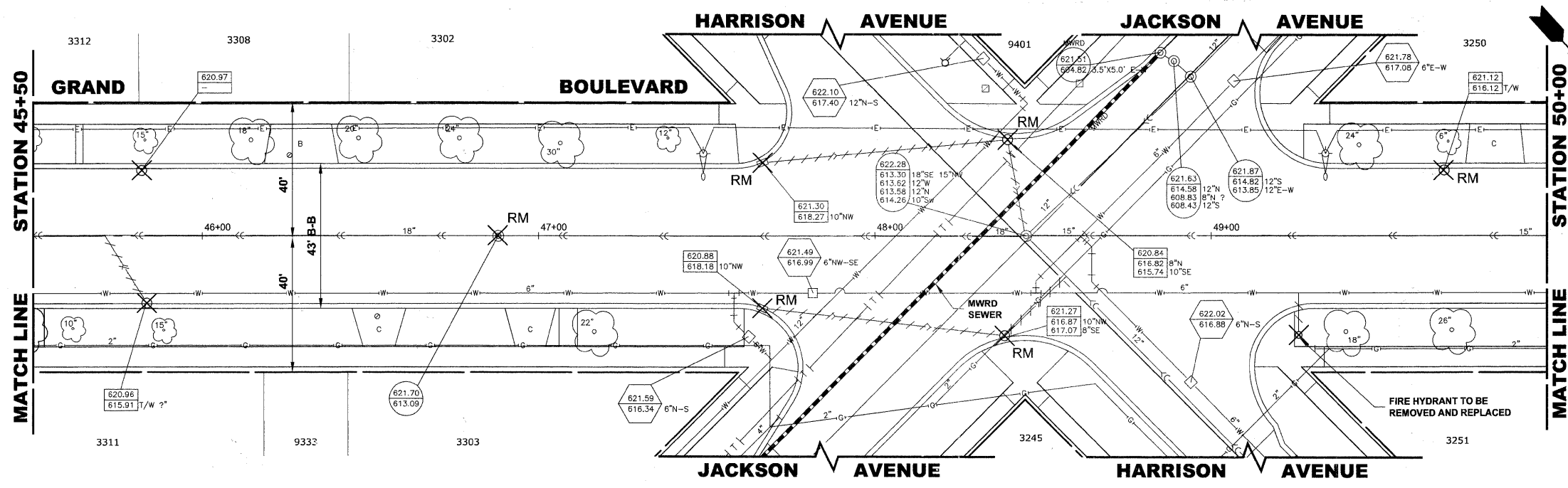
NOTE :
 FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



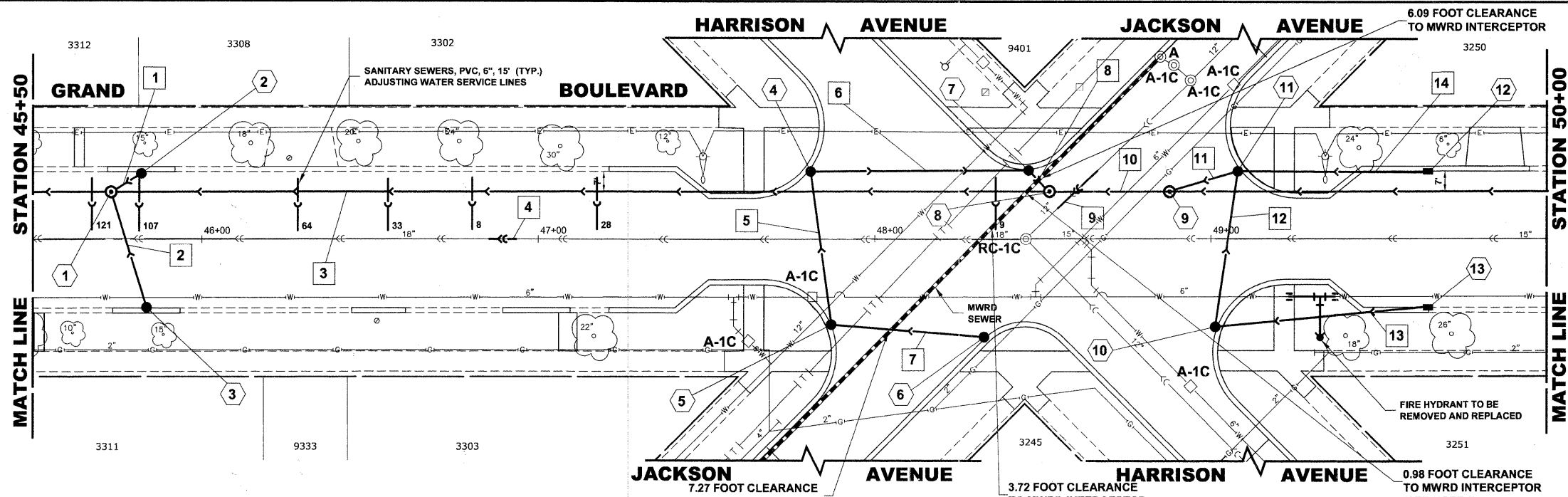
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 Oct. 26, 2011 - 11:14am

| | | | | | | |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 | USER NAME - PLOT SCALE - PLOT DATE - | DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. FAU 1694 SECTION 07-00122-01-PV COUNTY COOK TOTAL SHEETS 86 SHEET NO. 37 |
| | SCALE: 1"=20'H. 1"=4'V. SHEET NO. 4 OF 10 SHEETS STA. 41+50 TO STA. 45+50 | | | | FIELD BOOK NO. -AERIALS/ILL CONTRACT NO. 63651 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) E.H.E. PROJECT NO. 125-09-23201 | |



| STRUCTURE NO. | STATION | OFFSET | TYPE | R/W EL. | INVERT ELEVATION |
|---------------|---------|--------|----------------------------------------------------|---------|----------------------------------------------------------|
| 1 | 45+73 | 14 LT | MANHOLES, TYPE A 9" DIA. TYPE 1 FRAME, CLOSED LID | 621.20 | 611.31 (42" SE-NW) 616.85 (10' NE) 617.15 (10' SW) |
| 2 | 45+82 | 20 LT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.00 | 617.25 (10' E) |
| 3 | 45+83 | 20 RT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 620.95 | 617.20 (10' SW) |
| 4 | 47+81 | 20 LT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.10 | 617.65 (12' NE) 617.65 (12' NW) |
| 5 | 47+87 | 25 RT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.00 | 617.85 (10' NW) 617.85 (12' SW) |
| 6 | 48+34 | 25 RT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.10 | 618.10 (10' SE) |
| 7 | 48+46 | 20 LT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.05 | 617.36 (12' SW) 617.36 (12' N) |
| 8 | 48+52 | 14 LT | MANHOLES, TYPE A 9" DIA. TYPE 1 FRAME, CLOSED LID | 621.30 | 608.45 (42' NW) 611.56 (42' SE) 617.32 (12' S) |
| 9 | 48+57 | 14 LT | MANHOLES, TYPE A 9" DIA. TYPE 1 FRAME, CLOSED LID | 621.40 | 608.76 (42' SE) 612.06 (35' NW) 616.87 (12' W-NW) |
| 10 | 49+01 | 25 RT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.10 | 617.01 (10' NW) 617.01 (12' SW) |
| 11 | 49+08 | 20 LT | CATCH BASIN, TYPE A 4' DIA. TYPE 1 FRAME, OPEN LID | 621.10 | 616.55 (12' NE) 616.55 (12' SE) 617.08 (10' NW) |
| 12 | 49+55 | 20 LT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 621.15 | 617.65 (10' SE) |
| 13 | 49+55 | 20 RT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 621.15 | 617.65 (10' SE) |

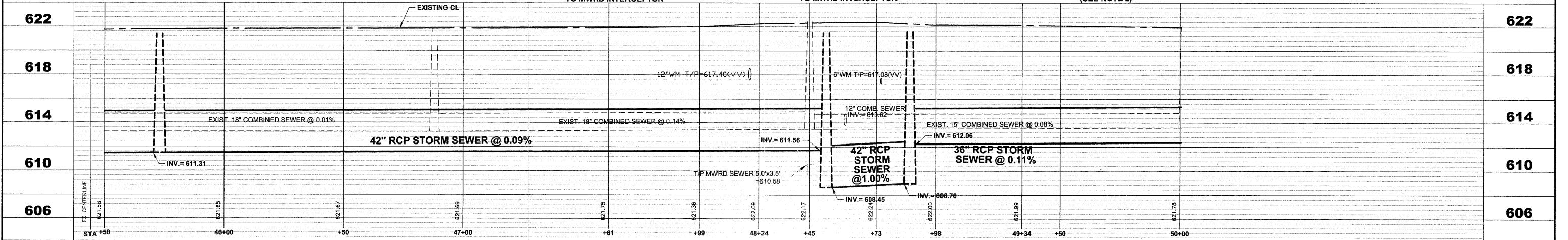
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.7 |
| 2 | 35' | STORM SEW CL B 2 10 | 1.00% | 2.9 |
| 3 | 275' | SS RG CL A 2 42 | 0.09% | 348.9 |
| 4 | 8' | 15" PVC CS PIPE REPL | 0.114% | 2.2 |
| 5 | 45' | SS DI T1 12 | 0.44% | 0.0 |
| 6 | 65' | SS DI T1 12 | 0.44% | 0.0 |
| 7 | 45' | SS DI T1 10 | 0.56% | 0.0 |
| 8 | 10' | STORM SEW CL B 2 12 | 0.44% | 0.0 |
| 9 | 15' | 12" PVC CS PIPE REPL | 0.194% | 3.8 |
| 10 | 31' | SS RG CL A 2 42 | 1.00% | 58.7 |
| 11 | 21' | STORM SEW CL B 2 12 | 1.00% | 1.7 |
| 12 | 46' | STORM SEW CL B 2 12 | 1.00% | 2.2 |
| 13 | 64' | STORM SEW CL B 2 10 | 1.00% | 0.6 |
| 14 | 57' | STORM SEW CL B 2 10 | 1.00% | 0.5 |

- NOTES :**
- FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.
 - SEE SHEET NO. 54 FOR MWRD SEWER CROSSING NOTES.

PROPOSED IMPROVEMENTS



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

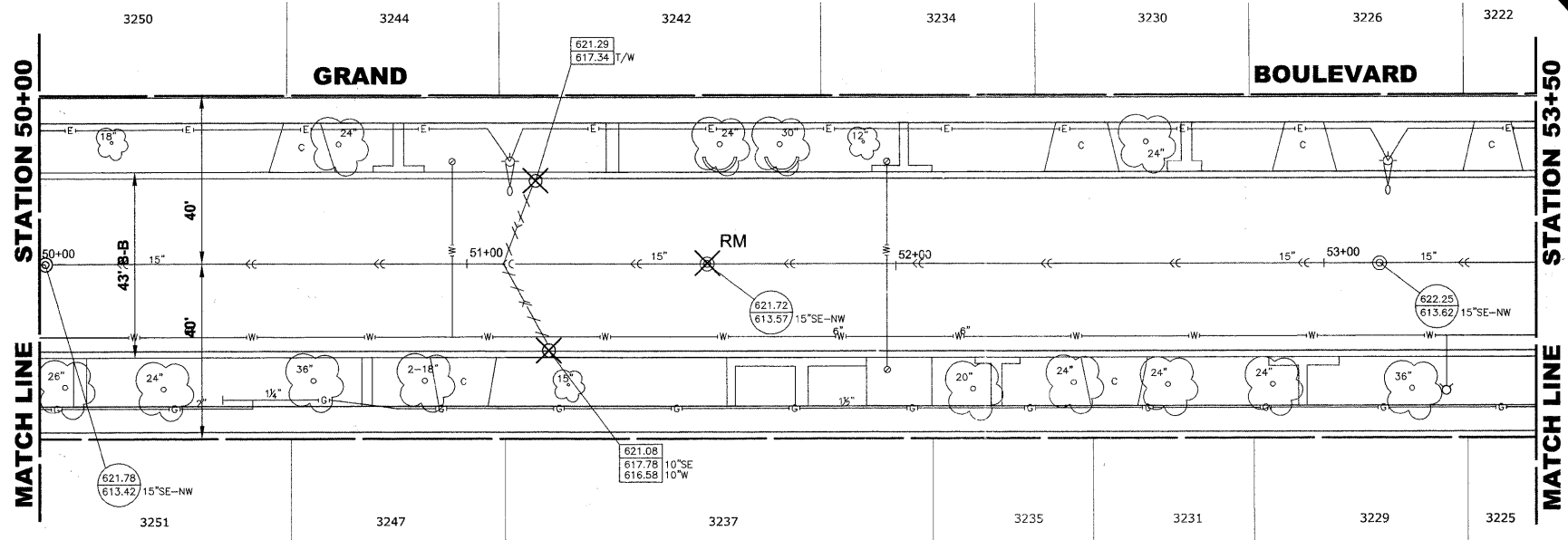
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| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRAND BOULEVARD
UTILITY PLAN AND PROFILE
 SCALE: 1"=20'H, 1"=4'V. SHEET NO. 5 OF 10 SHEETS STA. 45+50 TO STA. 50+00

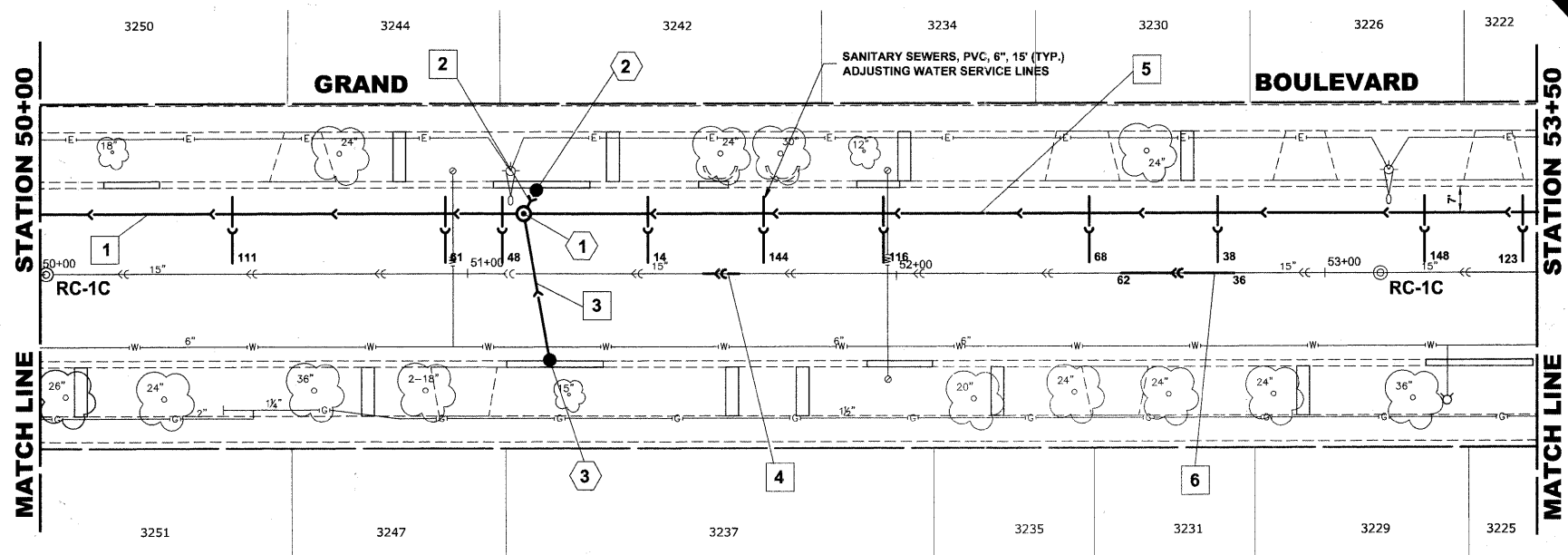
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|-----------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 38 |
| FIELD BOOK NO. | -AERIALS/ILL | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

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| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|--------------------------------------------------------|---------|---------------------------------------------------------|
| 1 | 51+13 | 14' LT | MANHOLES, TYPE A 5' DIA TYPE 1 FRAME, CLOSED LID | 621.45 | 612.30 (36' SE-NW) 616.95 (10' NE) 617.45 (10' W) |
| 2 | 51+16 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.30 | 617.55 (10' E) |
| 3 | 51+19 | 20' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.05 | 617.30 (10' SW) |

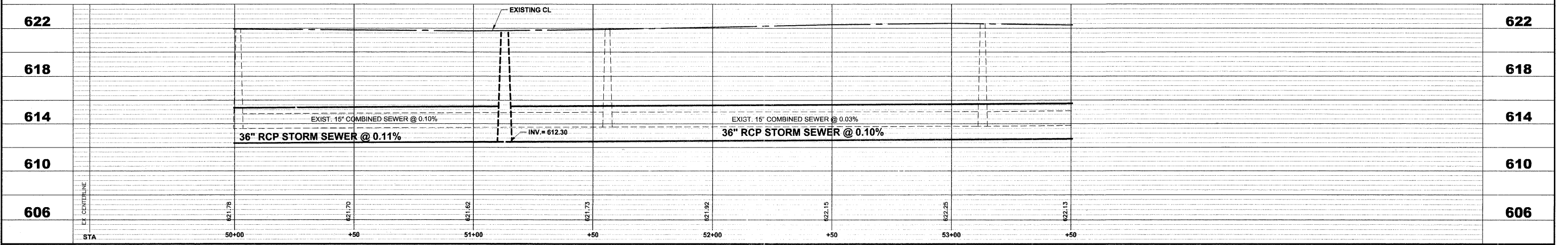
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 222' | SS RG CL A 2 36 | 0.11% | 260.0 |
| 2 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.7 |
| 3 | 35' | STORM SEW CL B 2 10 | 1.00% | 3.2 |
| 4 | 8' | 15" PVC CS PIPE REPL | 0.145% | 2.3 |
| 5 | 397' | SS RG CL A 2 36 | 0.10% | 449.7 |
| 6 | 26' | 15" PVC CS PIPE REPL | 0.145% | 8.0 |

NOTE :
FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

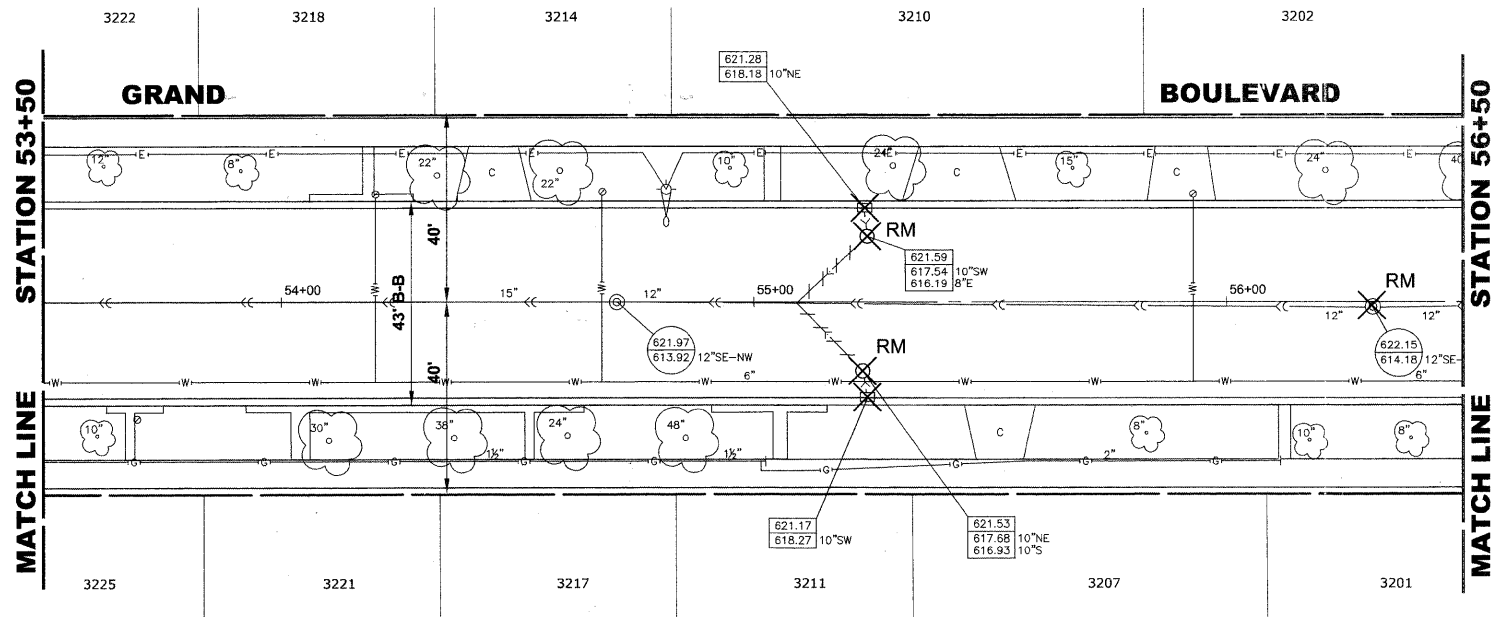
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| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRAND BOULEVARD
UTILITY PLAN AND PROFILE**
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 6 OF 10 SHEETS STA. 50+00 TO STA. 53+50

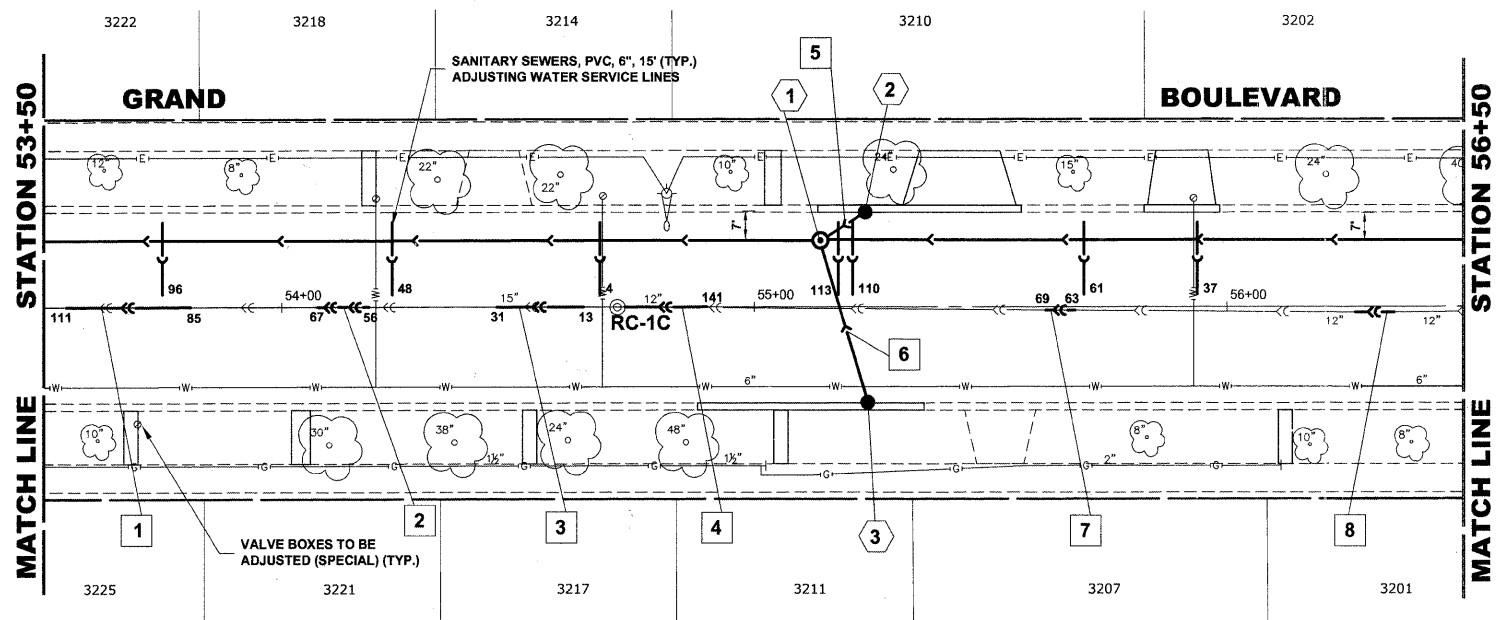
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|-----------------------------|------------------------|---------------------------------------|-----------------|--------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 39 |
| FIELD BOOK NO. -JAERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

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| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|--------------------------------------------------------|---------|-------------------------------------------------------------------------|
| 1 | 55+14 | 14' LT | MANHOLES, TYPE A, 5' DIA TYPE 1 FRAME, CLOSED LID | 621.50 | 612.70 (36' SE) 613.20 (30' NW) 617.05 (10' NE) 617.40 (10' W) |
| 2 | 55+23 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.25 | 617.50 (10' E) |
| 3 | 55+24 | 20' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.15 | 617.40 (10' SW) |

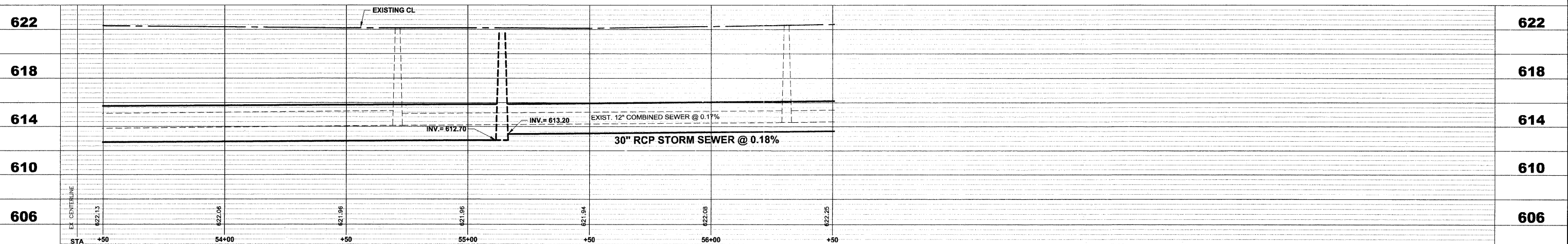
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 26' | 15" PVC CS PIPE REPL | 0.145% | 7.7 |
| 2 | 11' | 15" PVC CS PIPE REPL | 0.145% | 3.1 |
| 3 | 18' | 15" PVC CS PIPE REPL | 0.145% | 5.0 |
| 4 | 16' | 12" PVC CS PIPE REPL | 0.194% | 4.0 |
| 5 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.7 |
| 6 | 35' | STORM SEW CL B 2 10 | 1.00% | 3.1 |
| 7 | 6' | 12" PVC CS PIPE REPL | 0.194% | 1.5 |
| 8 | 8' | 12" PVC CS PIPE REPL | 0.194% | 2.0 |

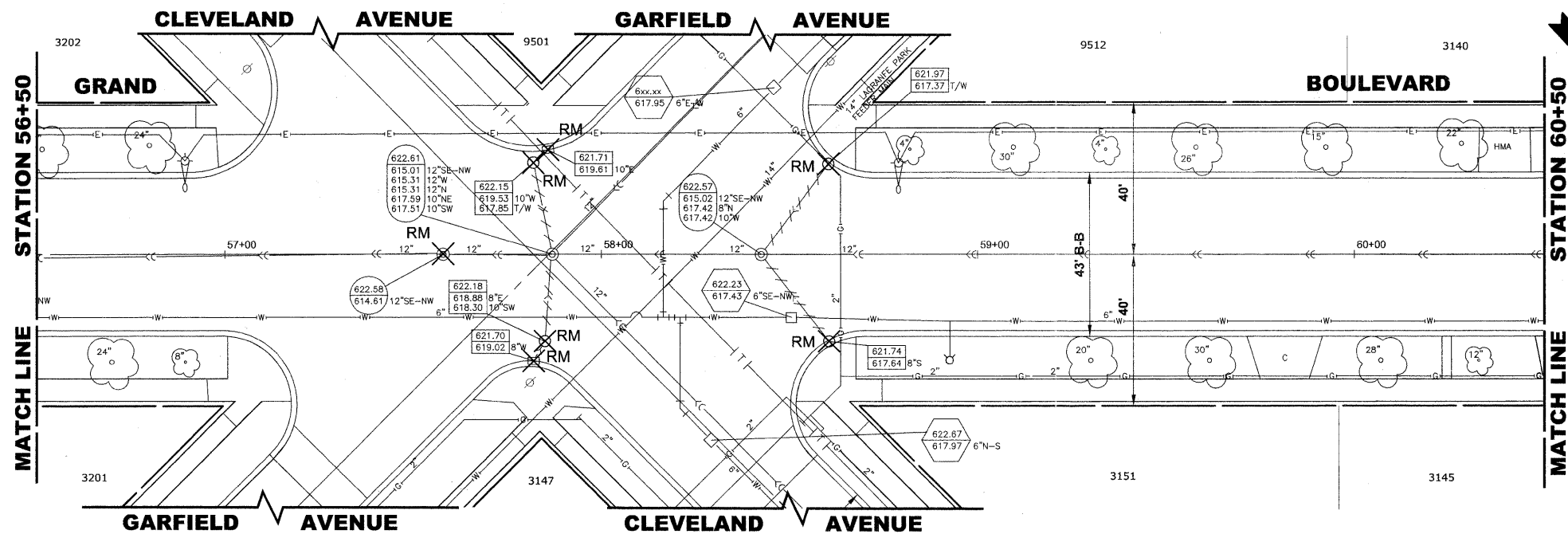
NOTE :
FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



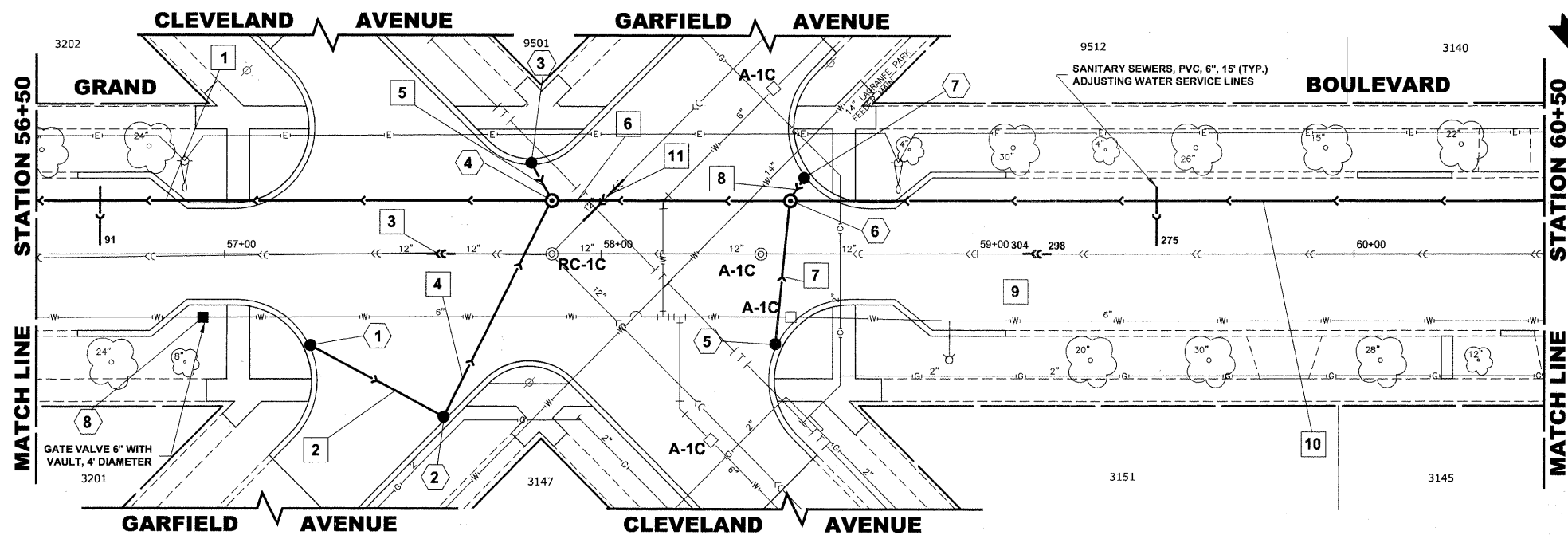
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|--------------------------------------------------------------------------------------------|-------------------------|-------------------------|--------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|-------------------------------|----------------|--------------------|-----------------|
| HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 | USER NAME - WOP, JG | DESIGNED - WOP, JG | REVISED - (Blank) | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 40 |
| | PLOT SCALE - (Blank) | DRAWN - MK, DMM | REVISED - (Blank) | | | FIELD BOOK NO. -AERIALS/LL | CONTRACT NO. 63651 | | | |
| | CHECKED - WOP, JG | DATE - 10-24-11 | REVISED - (Blank) | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | H.E. PROJECT NO. 125-09-23201 | | | |
| | PLOT DATE - (Blank) | SCALE: 1"=20'H, 1"=4'V. | SHEET NO. 7 OF 10 SHEETS | | | STA. 53+50 TO STA. 56+50 | | | | |

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| STRUCTURE NO. | STATION | OFFSET | TYPE | RM EL. | INVERT ELEVATION |
|---------------|---------|--------|------------------------------------------------------|--------|-------------------------------------------------------------------------|
| 1 | 57+25 | 24' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.65 | 618.15 (10' N) |
| 2 | 57+60 | 43' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.55 | 617.91 (12' W) 617.91 (10' S) |
| 3 | 57+82 | 23' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.60 | 617.85 (10' N) |
| 4 | 57+87 | 14' LT | MANHOLES, TYPE A 5' DIA TYPE 1 FRAME, CLOSED LID | 621.85 | 611.22 (30' NW) 613.88 (30' SE) 617.62 (12' E) 617.75 (10' S) |
| 5 | 58+47 | 24' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.75 | 618.00 (10' SW) |
| 6 | 58+50 | 14' LT | MANHOLES, TYPE A 5' DIA TYPE 1 FRAME, CLOSED LID | 622.00 | 611.80 (30' SE) 614.18 (24' NW) 617.63 (10' NE) 617.93 (10' W) |
| 7 | 58+54 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 621.75 | 618.00 (10' E) |
| 8 | 56+95 | 18' RT | VALVE VAULTS, TYPE A4' DIA, TYPE 1 FRAME, CLOSED LID | 622.00 | 617.00 (T/P) |

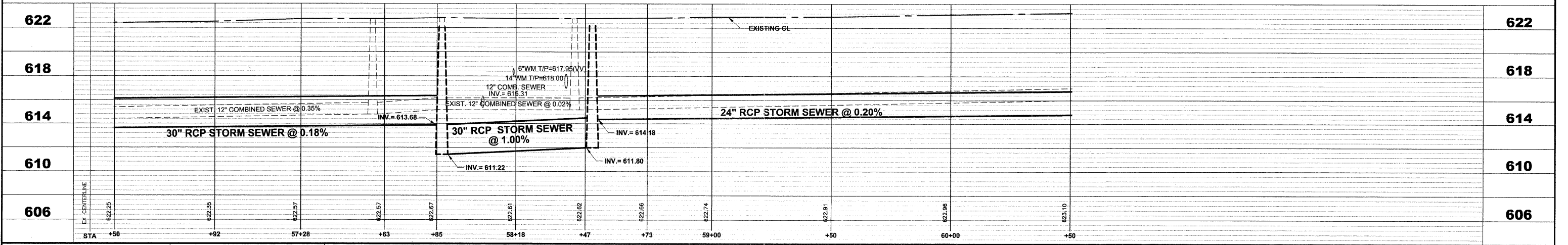
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 272' | SS RG CL A 2 30 | 0.18% | 222.3 |
| 2 | 40' | STORM SEW CL B 2 10 | 0.60% | 0.0 |
| 3 | 8' | 12" PVC CS PIPE REPL | 0.194% | 1.7 |
| 4 | 65' | STORM SEW CL B 2 12 | 0.45% | 0.7 |
| 5 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.2 |
| 6 | 58' | SS RG CL A 2 30 | 1.00% | 67.7 |
| 7 | 37' | STORM SEW CL B 2 10 | 1.00% | 1.3 |
| 8 | 7' | STORM SEW CL B 2 10 | 1.00% | 0.2 |
| 9 | 6' | 12" PVC CS PIPE REPL | 0.194% | 1.2 |
| 10 | 370' | SS RG CL A 2 24 | 0.20% | 281.2 |
| 11 | 15' | 12" PVC CS PIPE REPL | 0.194% | 2.7 |

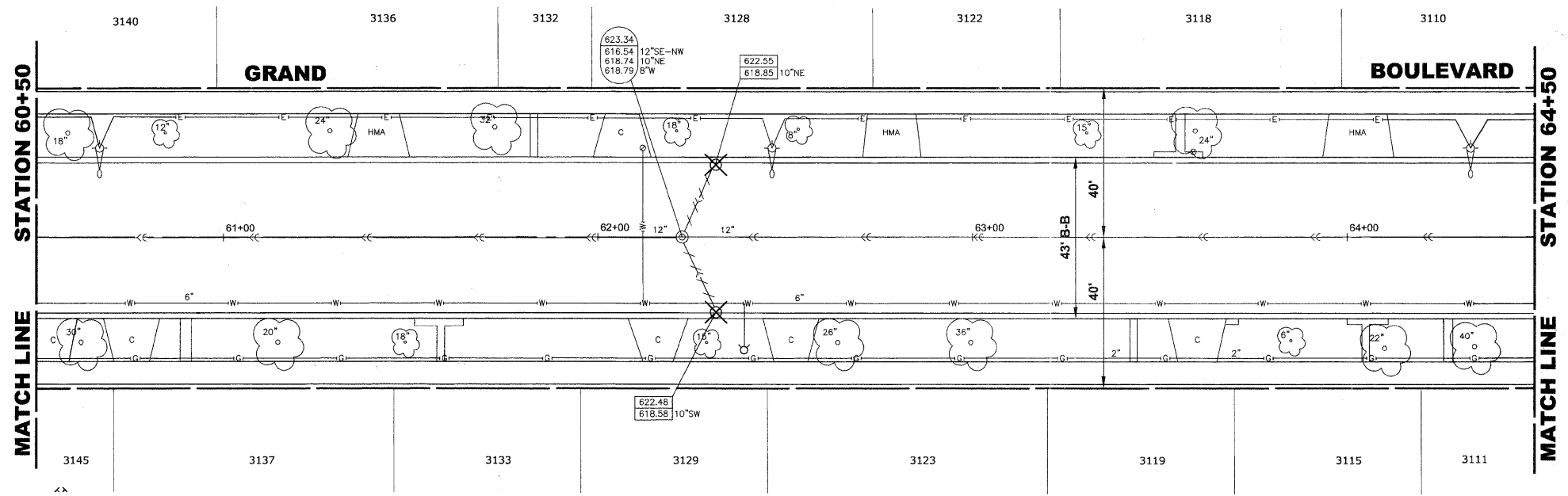
NOTE:
 FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



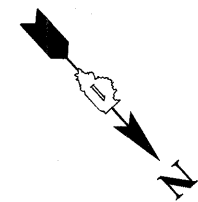
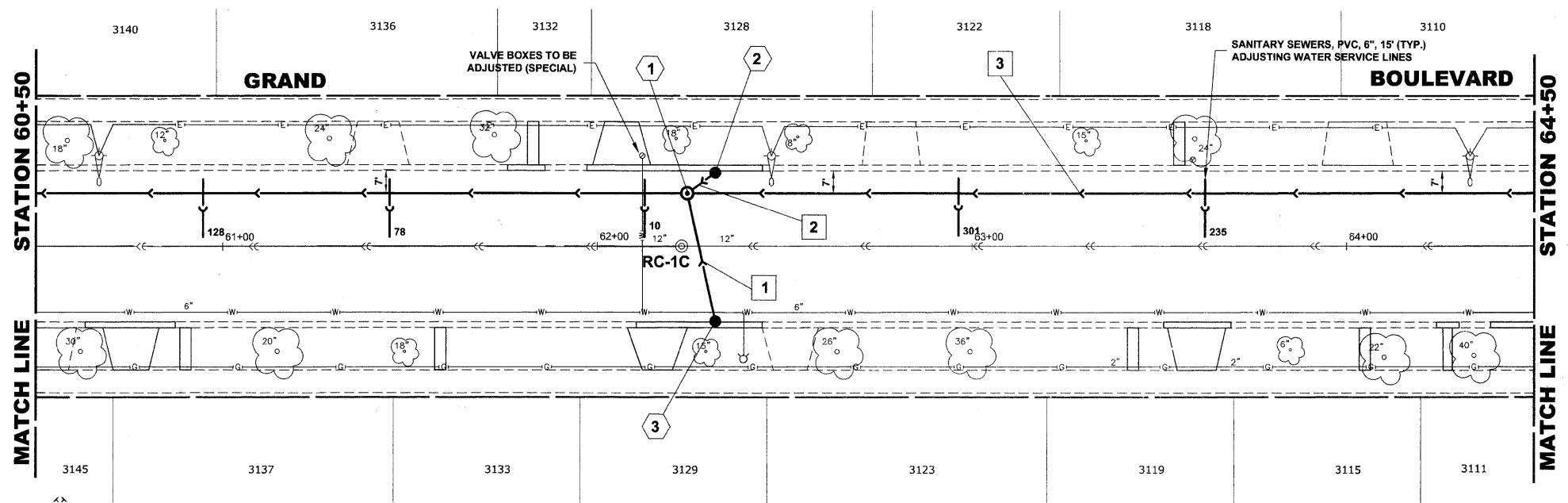
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| HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 | USER NAME - DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. - SECTION - COUNTY - TOTAL SHEETS - SHEET NO. - |
| | PLOT SCALE - PLOT DATE - | SCALE: 1"=20'H, 1"=4'V. | | | SHEET NO. 8 OF 10 SHEETS STA. 56+50 TO STA. 60+50 |

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 Oct. 26, 2011 - 11:18am



| STRUCTURE NO. | STATION | OFFSET | TYPE | RM EL. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------|--------|-------------------------------------------------------------------------|
| 1 | 62+24 | 14' LT | MANHOLES, TYPE A, 5' DIA TYPE 1 FRAME, CLOSED LID | 622.88 | 614.92 (24' SE) 615.42 (18' NW) 618.40 (10' NE) 618.70 (10' W) |
| 2 | 62+32 | 20' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 622.55 | 618.80 (10' E) |
| 3 | 62+32 | 20' RT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 622.50 | 618.75 (10' SW) |

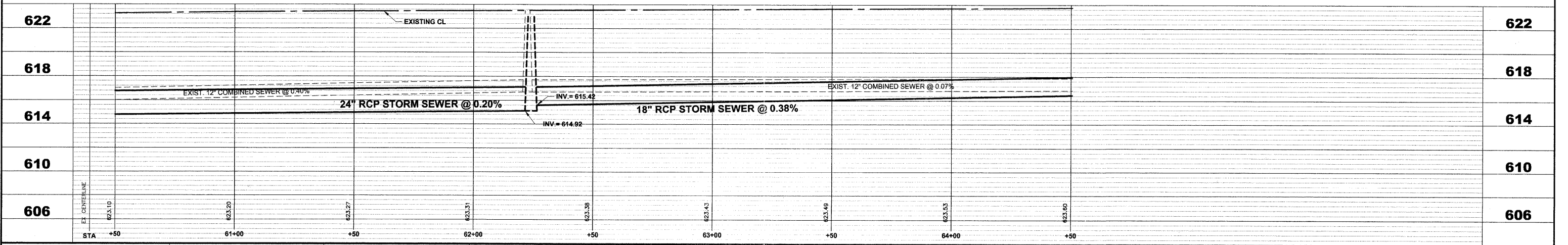
EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|---------------------|-------|----------|
| 1 | 35' | STORM SEW CL B 2 10 | 1.00% | 3.1 |
| 2 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 3 | 372' | SS RG CL A 2 18 | 0.38% | 183.5 |

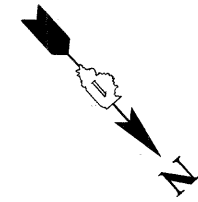
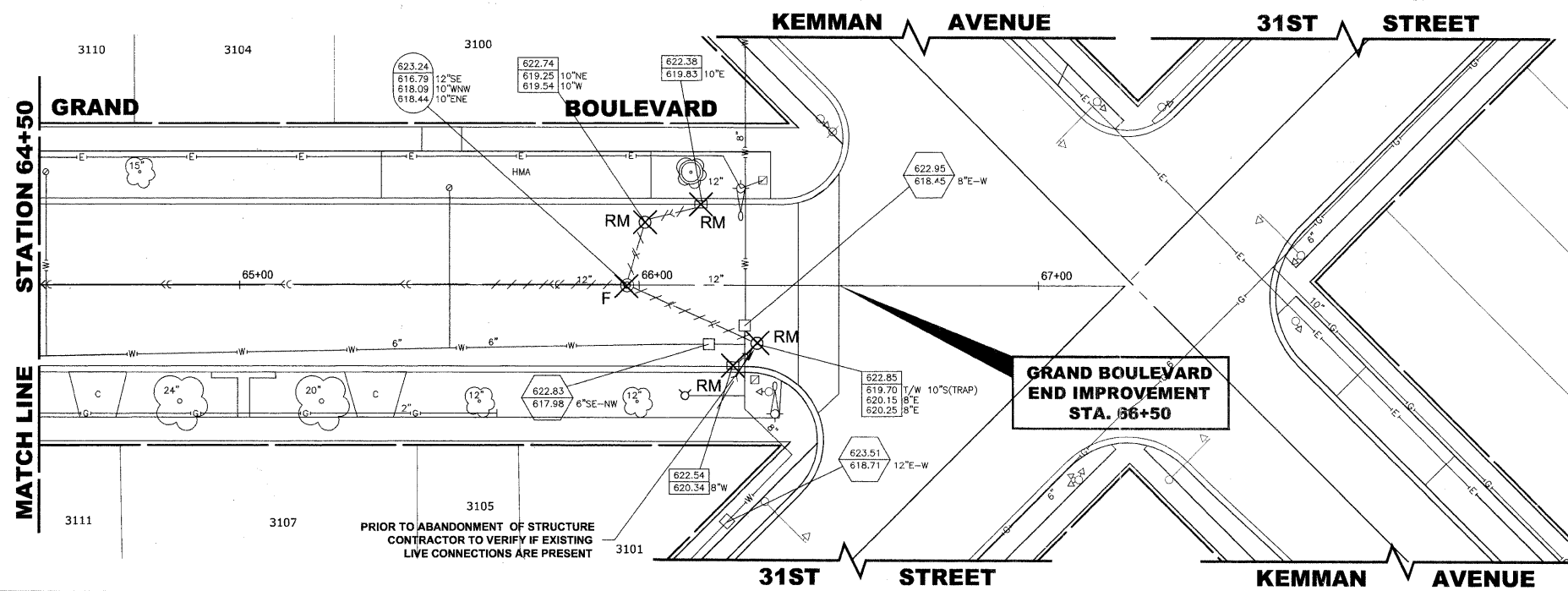
NOTE :
FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS



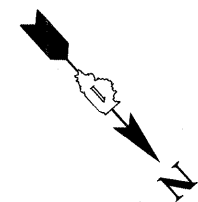
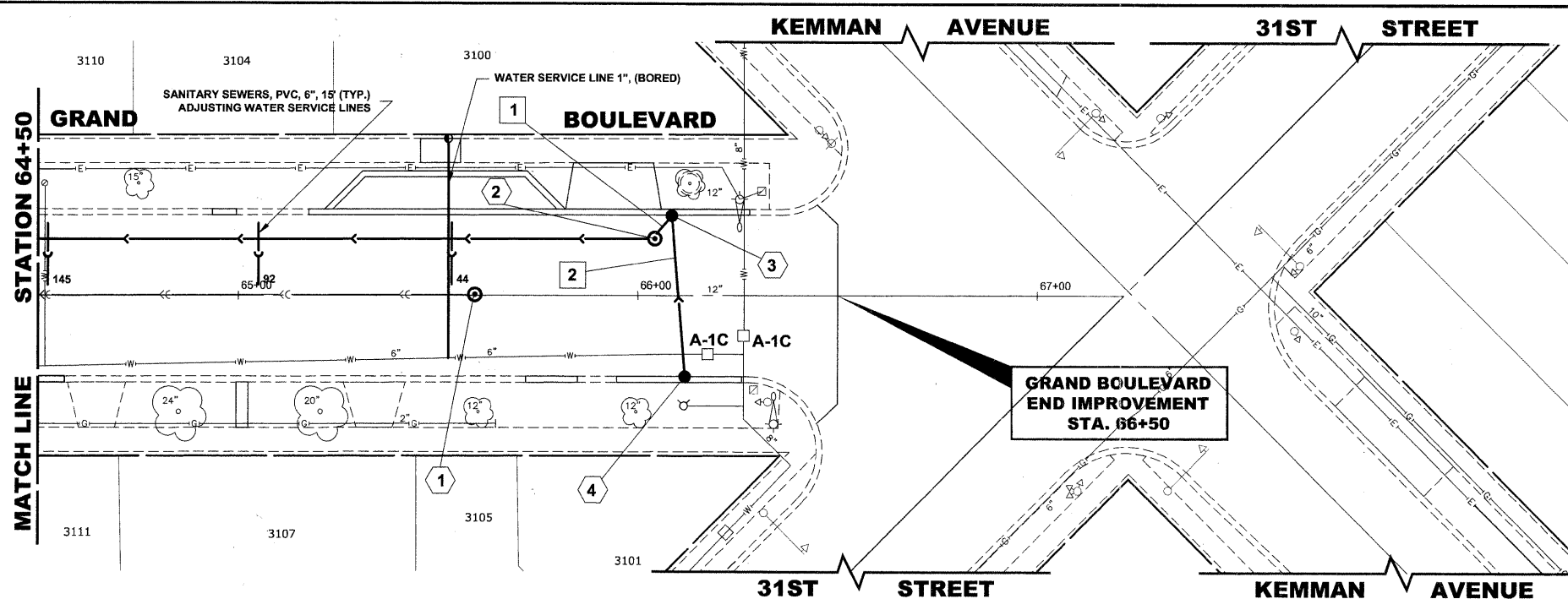
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|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <p> HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 </p> | USER NAME - PLOT SCALE - PLOT DATE - | DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GRAND BOULEVARD UTILITY PLAN AND PROFILE | ROUTE NO. FAU 1694 SECTION 07-00122-01-PV COUNTY COOK TOTAL SHEETS 86 SHEET NO. 42 |
| | SCALE: 1"=20'H, 1"=4'V. SHEET NO. 9 OF 10 SHEETS STA. 60+50 TO STA. 64+50 | | | | FIELD BOOK NO. -AERIAL/SILL CONTRACT NO. 63651 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) E.H.E. PROJECT NO. 125-09-23201 | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 11:20am



| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------|---------|------------------------------------------------------|
| 1 | 65+59 | 0' LT | COMBINED SEWER MANHOLE, 4' DIA TYPE 1 FRAME, CLOSED LID | 623.55 | 616.80 (12" SE) |
| 2 | 66+00 | 14' LT | MANHOLES, TYPE A, 4' DIA TYPE 1 FRAME, CLOSED LID | 622.75 | 616.83 (18" SE) 618.57 (10" W) 618.58 (10" NE) |
| 3 | 66+08 | 20' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 622.42 | 618.67 (10" E) |
| 4 | 66+11 | 20' RT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 622.68 | 618.93 (10" S) |

EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|---------------------|-------|----------|
| 1 | 10' | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 2 | 35' | STORM SEW CL B 2 10 | 1.00% | 2.0 |

NOTE :
 FIGURES SHOWN AT THE END OF THE 6" SANITARY SEWER SERVICES INDICATE THE DISTANCE THE SERVICE IS FROM THE COMBINED SEWER MANHOLE.

PROPOSED IMPROVEMENTS

| STA | 65+00 | +50 | 66+00 | +30 | +73 | |
|-----|-------|-----|-------|-----|-----|-----|
| 622 | | | | | | 622 |
| 618 | | | | | | 618 |
| 614 | | | | | | 614 |
| 610 | | | | | | 610 |
| 606 | | | | | | 606 |

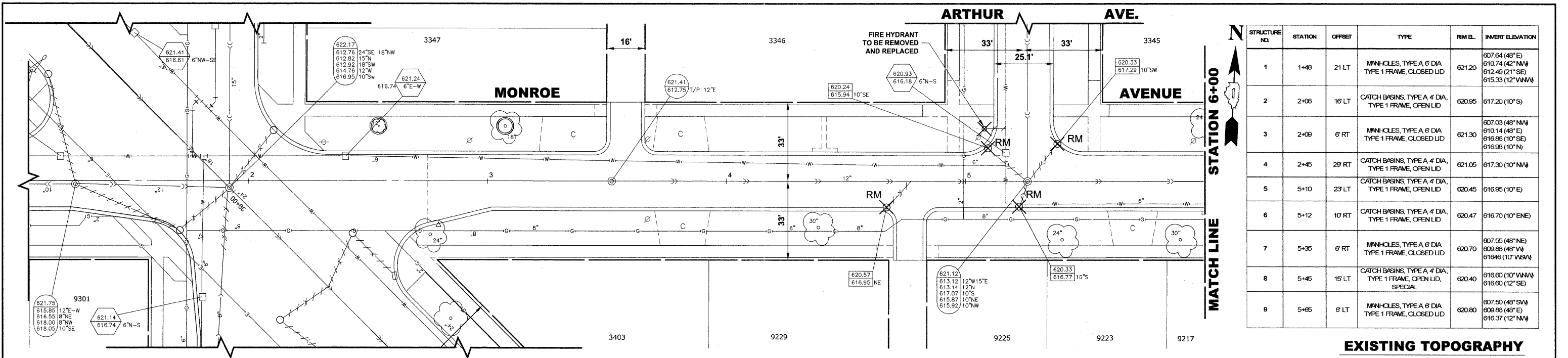
HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

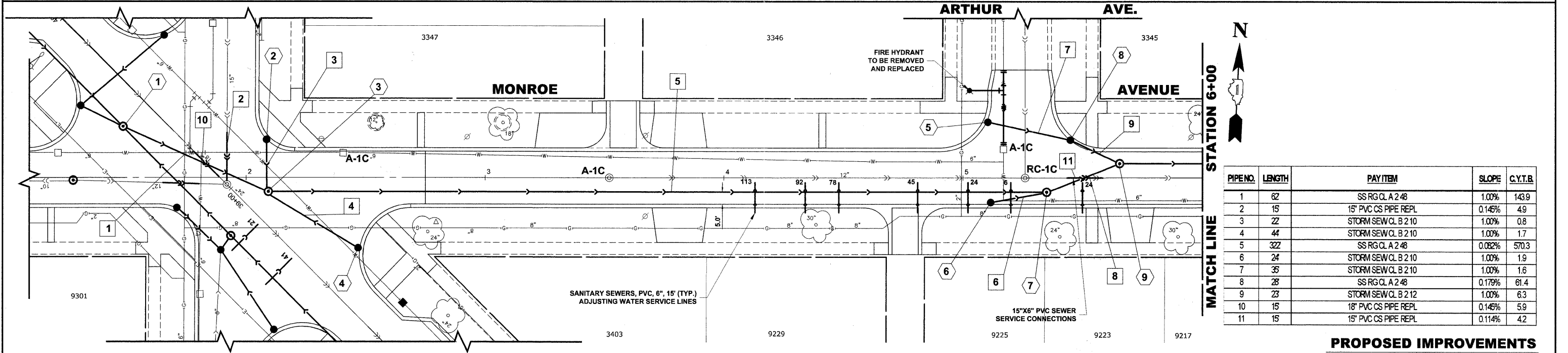
**GRAND BOULEVARD
 UTILITY PLAN AND PROFILE**
 SCALE: 1"=20'H, 1"=4'V. SHEET NO. 10 OF 10 SHEETS STA. 64+50 TO STA. 66+37

| | | | | |
|-------------------------------------------------------------|----------------|--------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 43 |
| FIELD BOOK NO. | -AERIALS/ILL | CONTRACT NO. | 63651 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |



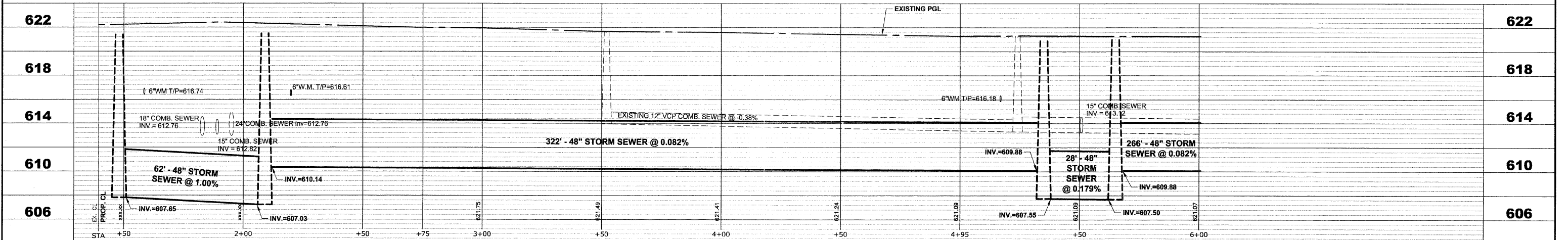
| STRUCTURE NO. | STATION | OFFSET | TYPE | RM EL. | INVERT ELEVATION |
|---------------|---------|--------|-------------------------------------------------------------|--------|--------------------------------------------------------------------------|
| 1 | 1+48 | 21 LT | MANHOLES, TYPE A 6 DIA TYPE 1 FRAME, CLOSED LID | 621.20 | 607.64 (48" E) 610.74 (42" NW) 612.48 (21" SE) 615.33 (12" WNW) |
| 2 | 2+06 | 16 LT | CATCH BASINS, TYPE A 4 DIA, TYPE 1 FRAME, OPEN LID | 620.95 | 617.20 (10" S) |
| 3 | 2+06 | 6 RT | MANHOLES, TYPE A 6 DIA TYPE 1 FRAME, CLOSED LID | 621.30 | 607.03 (48" NW) 610.14 (48" E) 616.66 (10" SE) 616.98 (10" N) |
| 4 | 2+45 | 29 RT | CATCH BASINS, TYPE A 4 DIA, TYPE 1 FRAME, OPEN LID | 621.05 | 617.30 (10" NW) |
| 5 | 5+10 | 23 LT | CATCH BASINS, TYPE A 4 DIA, TYPE 1 FRAME, OPEN LID | 620.45 | 616.55 (10" E) |
| 6 | 5+12 | 10 RT | CATCH BASINS, TYPE A 4 DIA, TYPE 1 FRAME, OPEN LID | 620.47 | 616.70 (10" ENE) |
| 7 | 5+35 | 6 RT | MANHOLES, TYPE A 6 DIA TYPE 1 FRAME, CLOSED LID | 620.70 | 607.55 (48" NE) 609.68 (48" W) 616.45 (10" WSW) |
| 8 | 5+45 | 15 LT | CATCH BASINS, TYPE A 4 DIA, TYPE 1 FRAME, OPEN LID, SPECIAL | 620.40 | 616.60 (10" WNW) 616.60 (12" SE) |
| 9 | 5+65 | 6 LT | MANHOLES, TYPE A 6 DIA TYPE 1 FRAME, CLOSED LID | 620.80 | 607.50 (48" SW) 609.68 (48" E) 616.37 (12" NW) |

EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 62 | SS RG CL A 2 48 | 1.00% | 143.9 |
| 2 | 15 | 15" PVC CS PIPE REPL | 0.145% | 4.9 |
| 3 | 22 | STORM SEW CL B 2 10 | 1.00% | 0.8 |
| 4 | 44 | STORM SEW CL B 2 10 | 1.00% | 1.7 |
| 5 | 322 | SS RG CL A 2 48 | 0.082% | 570.3 |
| 6 | 24 | STORM SEW CL B 2 10 | 1.00% | 1.9 |
| 7 | 35 | STORM SEW CL B 2 10 | 1.00% | 1.6 |
| 8 | 28 | SS RG CL A 2 48 | 0.179% | 61.4 |
| 9 | 23 | STORM SEW CL B 2 12 | 1.00% | 6.3 |
| 10 | 15 | 18" PVC CS PIPE REPL | 0.145% | 5.9 |
| 11 | 15 | 15" PVC CS PIPE REPL | 0.114% | 4.2 |

PROPOSED IMPROVEMENTS

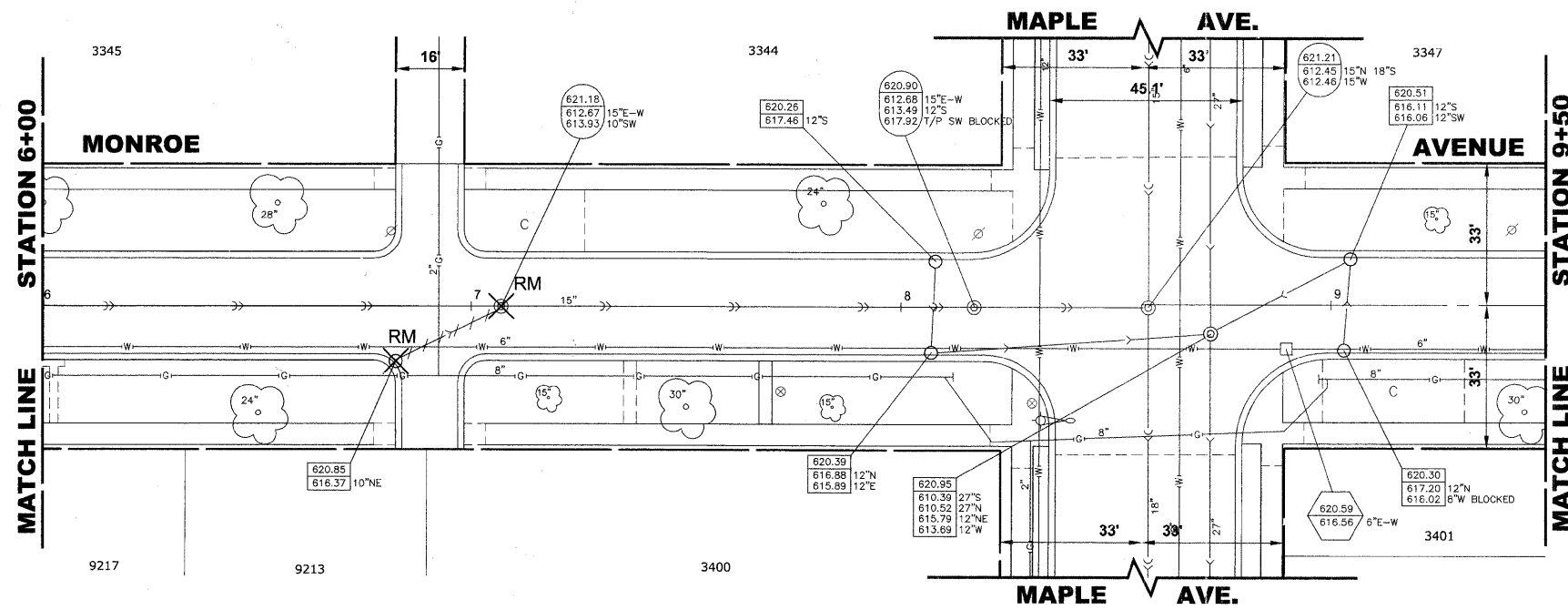


| | | | | | | | | | | | |
|-----------------------------------------------------------------------|--------------|--------------------|-----------|-----------------------------------------------------------------|---------------------------------------------------------|-----------------------|----------------|------------------|----------------|-------------|--|
| <p>Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - | DESIGNED - WOP, JG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. - | SECTION - | COUNTY - | TOTAL SHEETS - | SHEET NO. - | |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1694 | 07-00122-01-PV | COOK | 86 | 44 | |
| | PLOT DATE - | CHECKED - WOP, JG | REVISED - | | | FIELD BOOK NO. - | JAERIALS/LL | CONTRACT NO. - | 63651 | | |
| | | DATE - 10-24-11 | REVISED - | | | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT | M-9003(875) | | |

SCALE: 1"=20'H. 1"=4'V. SHEET NO. 1 OF 8 SHEETS STA. - TO STA. 6+00

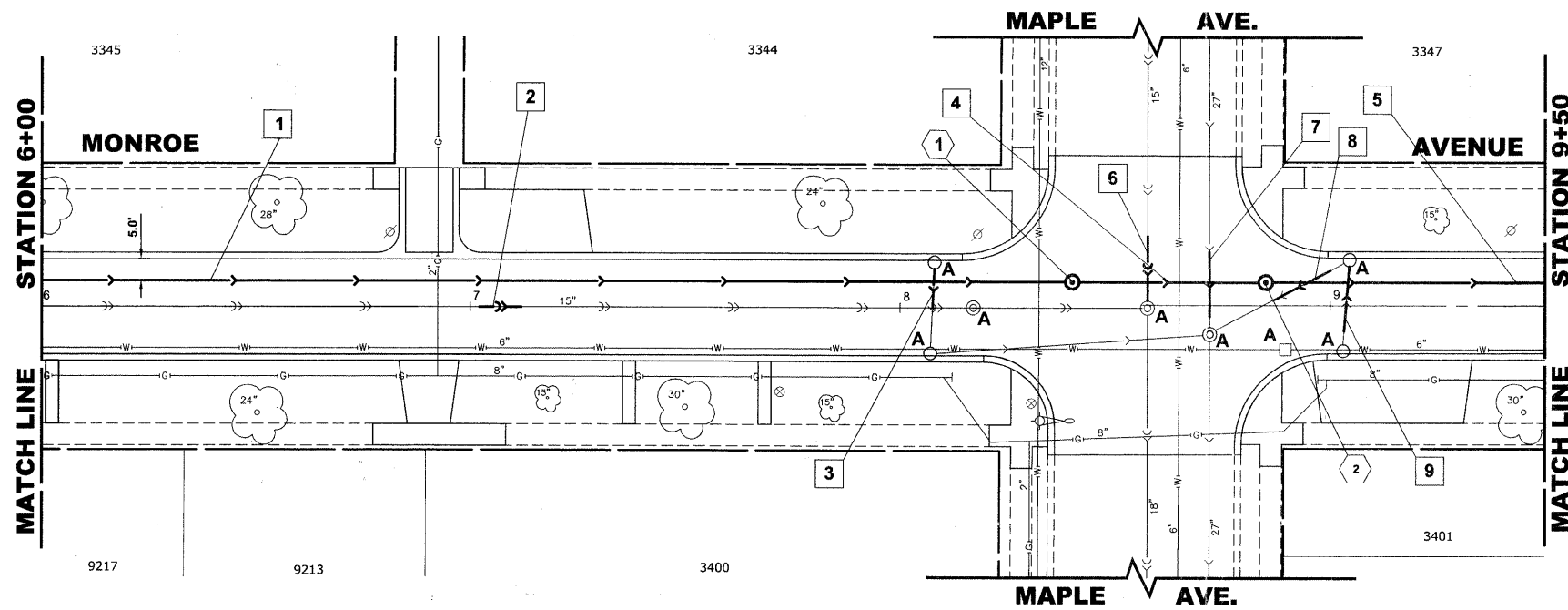
E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 24, 2011 - 4:52pm



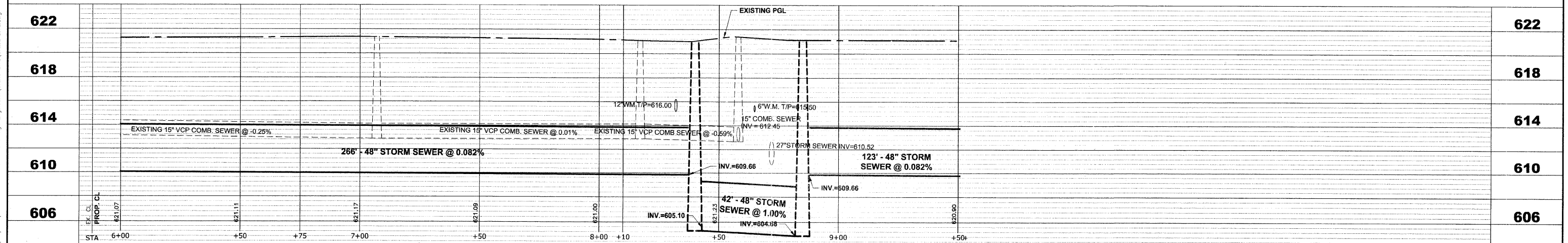
| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|-----------------------------------------------------|---------|----------------------------------|
| 1 | 8+40 | 6' LT | MANHOLES, TYPE A 6' DIA TYPE 1 FRAME, CLOSED LID | 620.70 | 605.10 (48" E) 609.66 (48" W) |
| 2 | 8+85 | 6' LT | MANHOLES, TYPE A 6' DIA TYPE 1 FRAME, CLOSED LID | 620.80 | 604.68 (48" W) 609.66 (48" E) |

EXISTING TOPOGRAPHY



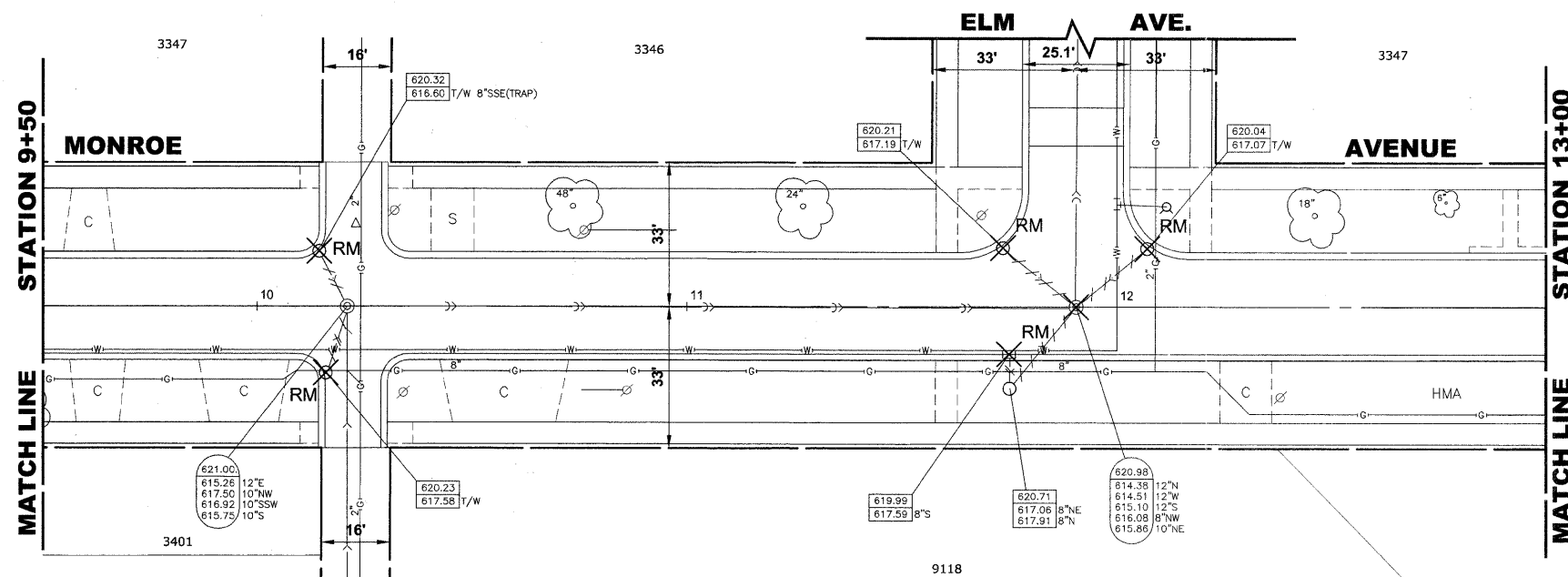
| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 266' | SS RG CL A 2 48 | 0.082% | 470.6 |
| 2 | 8' | 15" PVC CS PIPE REPL | 0.194% | 2.4 |
| 3 | 9' | STORM SEW CL B 2 10 | 1.00% | 0.2 |
| 4 | 42' | SS RG CL A 3 48 | 1.00% | 112.9 |
| 5 | 123' | SS RG CL A 2 48 | 0.082% | 223.7 |
| 6 | 15' | 15" PVC CS PIPE REPL | 0.194% | 4.7 |
| 7 | 15' | STORM SEWER SPEC 27 | 0.148% | 16.1 |
| 8 | 15' | STROM SEW CL B 2 12 | 1.00% | 2.0 |
| 9 | 15' | STROM SEW CL B 2 12 | 1.00% | 0.9 |

PROPOSED IMPROVEMENTS



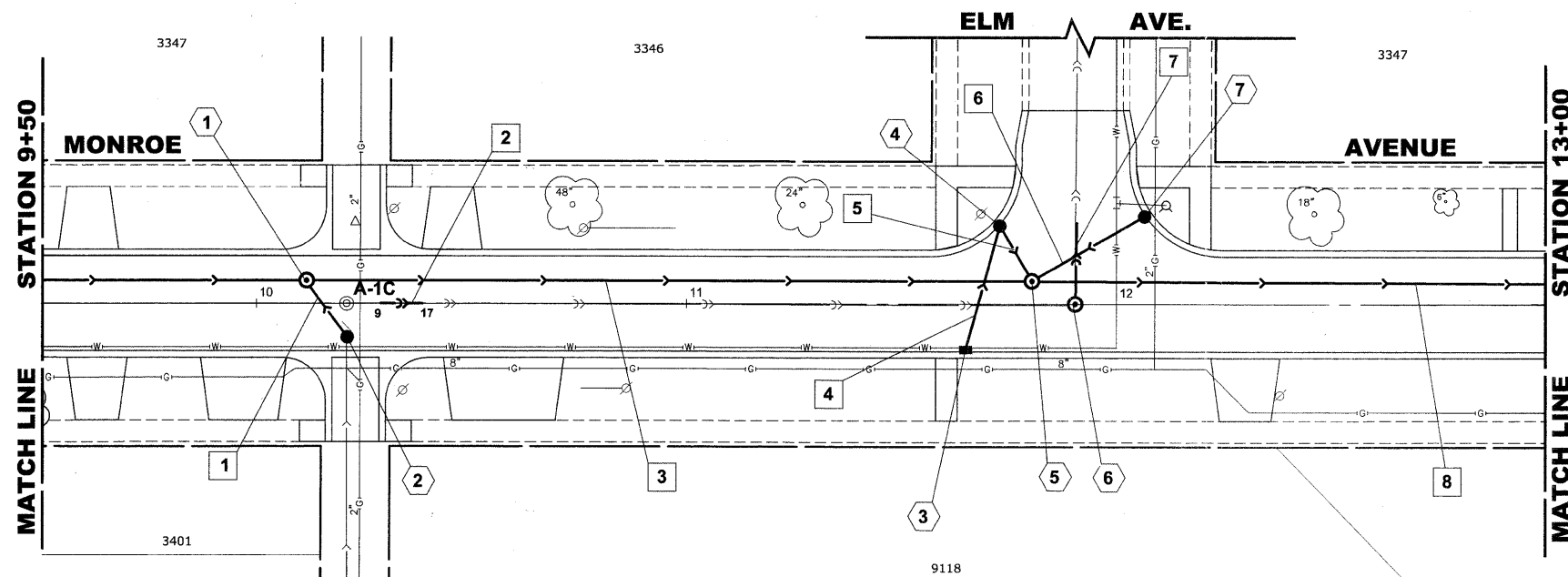
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|---------------------------------------------------------------------------------------------------|---------------------------------|-----------------------|----------------------|-----------------------------------------------------------------|---------------------------------------------------------|-----------------------|-----------------------------|--------------------|-----------------------|-----------------|
| <p>1911 Raymond Road Woodstock, Illinois 60098-1708 Phone: 384-9400 Fax: 384-9401</p> | USER NAME - WOP, JG | DESIGNED - WOP, JG | REVISED - (None) | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. FAU 1684 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 45 |
| | PLOT SCALE - 1"=20'H, 1"=4V. | DRAWN - MK, DMM | CHECKED - WOP, JG | | | REVISED - (None) | FIELD BOOK NO. -AERIALS/ILL | CONTRACT NO. 63651 | FED. ROAD DIST. NO. 1 | ILLINOIS |

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 Oct 24, 2011 - 4:52pm



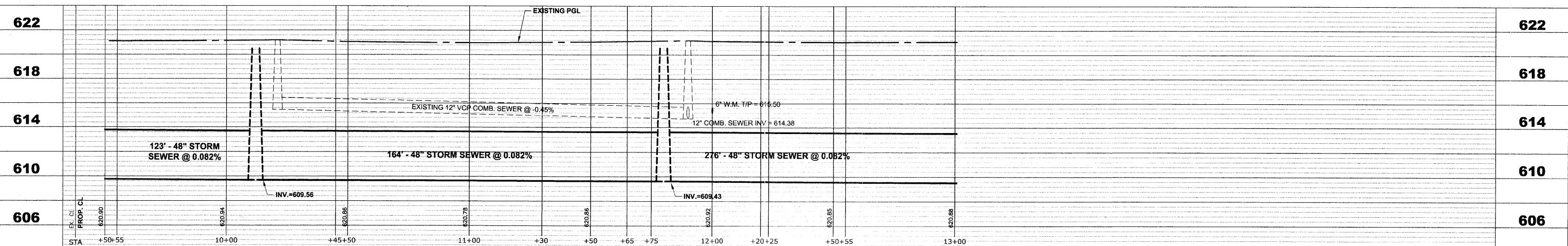
| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------------|---------|--------------------------------------------------------|
| 1 | 10+12 | 5' LT | MANHOLES, TYPE A 6" DIA TYPE 1 FRAME, CLOSED LID | 620.90 | 609.50 (48" E-W) 615.70 (10" SE) |
| 2 | 10+21 | 7' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.85 | 615.85 (10" S) 615.85 (10" NW) |
| 3 | 11+72 | 11' RT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 620.10 | 616.60 (10" N) |
| 4 | 11+72 | 18' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.05 | 615.00 (12" SE) 616.32 (10" S) |
| 5 | 11+80 | 5' LT | MANHOLES, TYPE A 6" DIA TYPE 1 FRAME, CLOSED LID | 620.35 | 609.43 (48" E-W) 614.85 (12" NW) 616.05 (12" NE) |
| 6 | 11+90 | 0 | COMBINED SEWER MANHOLE, 4' DIA TYPE 1 FRAME, CLOSED LID | 620.98 | 614.38 (12" N) 614.51 (12" W) 615.10 (12" S) |
| 7 | 12+07 | 20' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.10 | 616.35 (10" SW) |

EXISTING TOPOGRAPHY



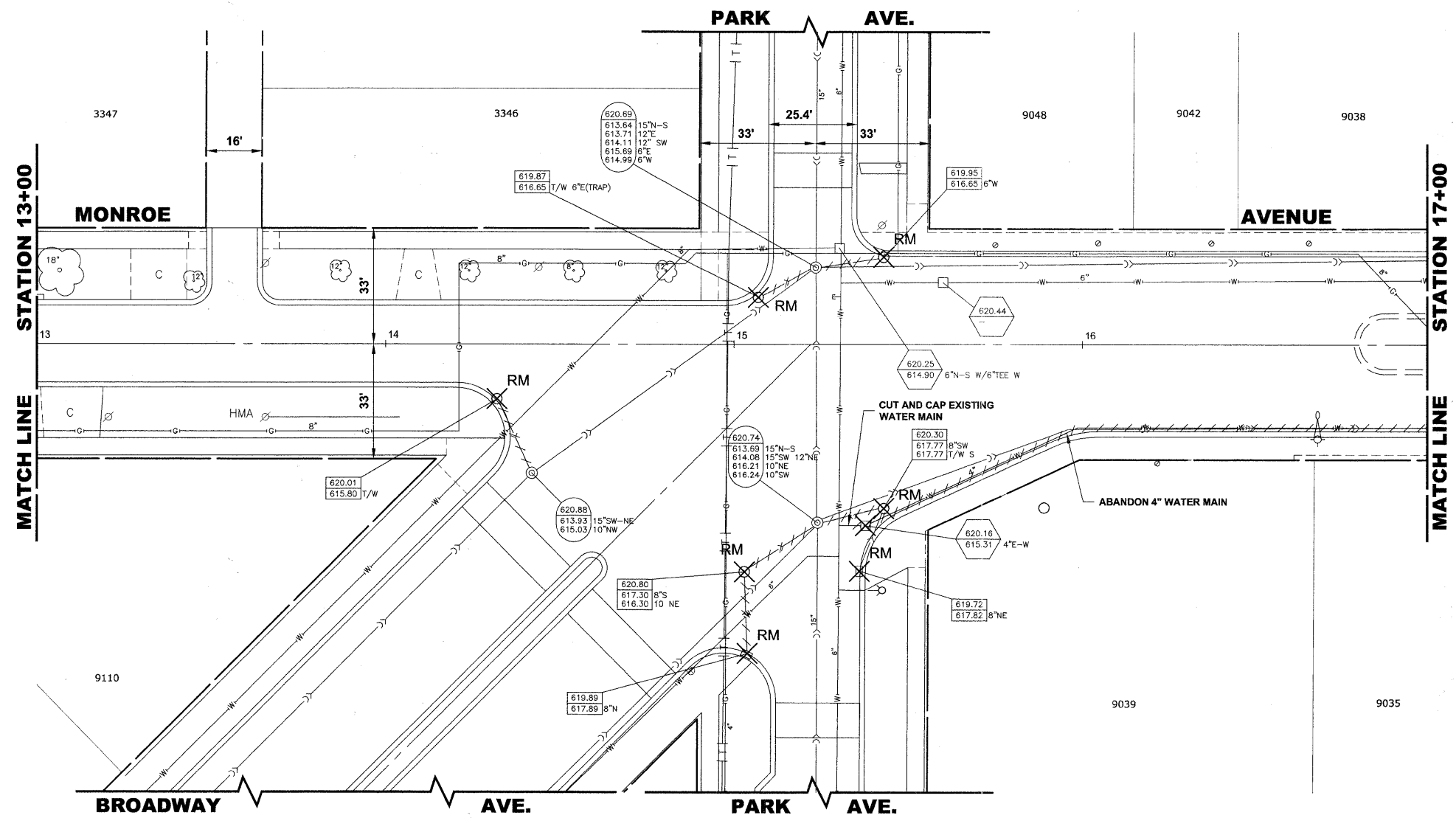
| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 15 | STORM SEW CL B 2 10 | 1.00% | 1.0 |
| 2 | 8 | 12' PVC CS PIPE REPL | 0.194% | 0.8 |
| 3 | 164' | SS RG CL A 2 48 | 0.082% | 295.7 |
| 4 | 28 | STORM SEW CL B 2 10 | 1.00% | 0.0 |
| 5 | 15 | STORM SEW CL B 2 12 | 1.00% | 1.1 |
| 6 | 30 | STORM SEW CL B 2 10 | 1.00% | 1.0 |
| 7 | 17 | 12' PVC CS PIPE REPL | 0.194% | 2.4 |
| 8 | 276 | SS RG CL A 2 48 | 0.082% | 491.1 |

PROPOSED IMPROVEMENTS

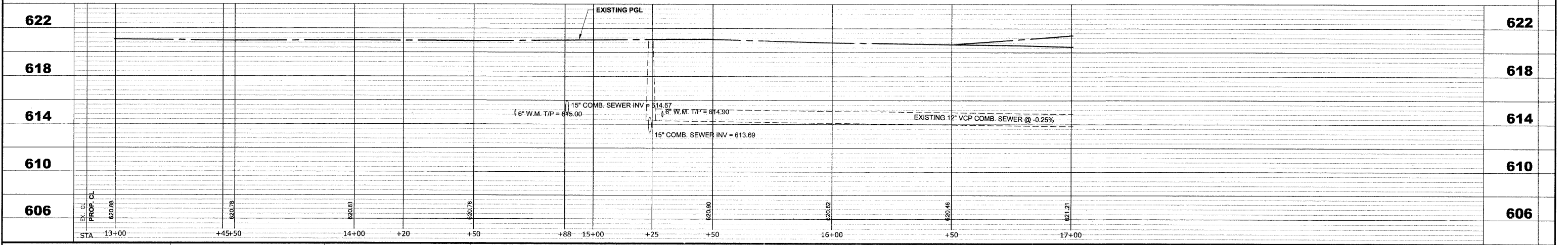


| | | | | | | |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. - SECTION - COUNTY - TOTAL SHEETS - SHEET NO. - | |
| | PLOT SCALE - PLOT DATE - | SCALE: 1"=20'H, 1"=4'V. | | | SHEET NO. 3 OF 8 SHEETS STA. 9+50 TO STA. 13+00 | FAU 1694 FIELD BOOK NO. - FED. ROAD DIST. NO. 1 ILLINOIS |
| | 9913 Rosemead Blvd Westchester, Illinois 60591-3798 Phone: 708.945-0200 Fax: 708.945-0222 | CONTRACT NO. 63651 M-9003(875) | | | E.H.E. PROJECT NO. 125-09-23201 | |
| | STA. +50+55 10+00 +45+50 11+00 +30 +50 +65 +75 12+00 +20+25 +50+55 13+00 | EXISTING PGL EXISTING 12" VCP COMB. SEWER @ -0.45% 6" W.M. T/P = 615.50 12" COMB. SEWER INV = 614.38 123' - 48" STORM SEWER @ 0.082% 164' - 48" STORM SEWER @ 0.082% 276' - 48" STORM SEWER @ 0.082% INV.=609.56 INV.=608.43 | | | 622 618 614 610 606 | |

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 Oct. 24, 2011 - 4:52pm



EXISTING TOPOGRAPHY

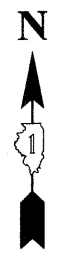
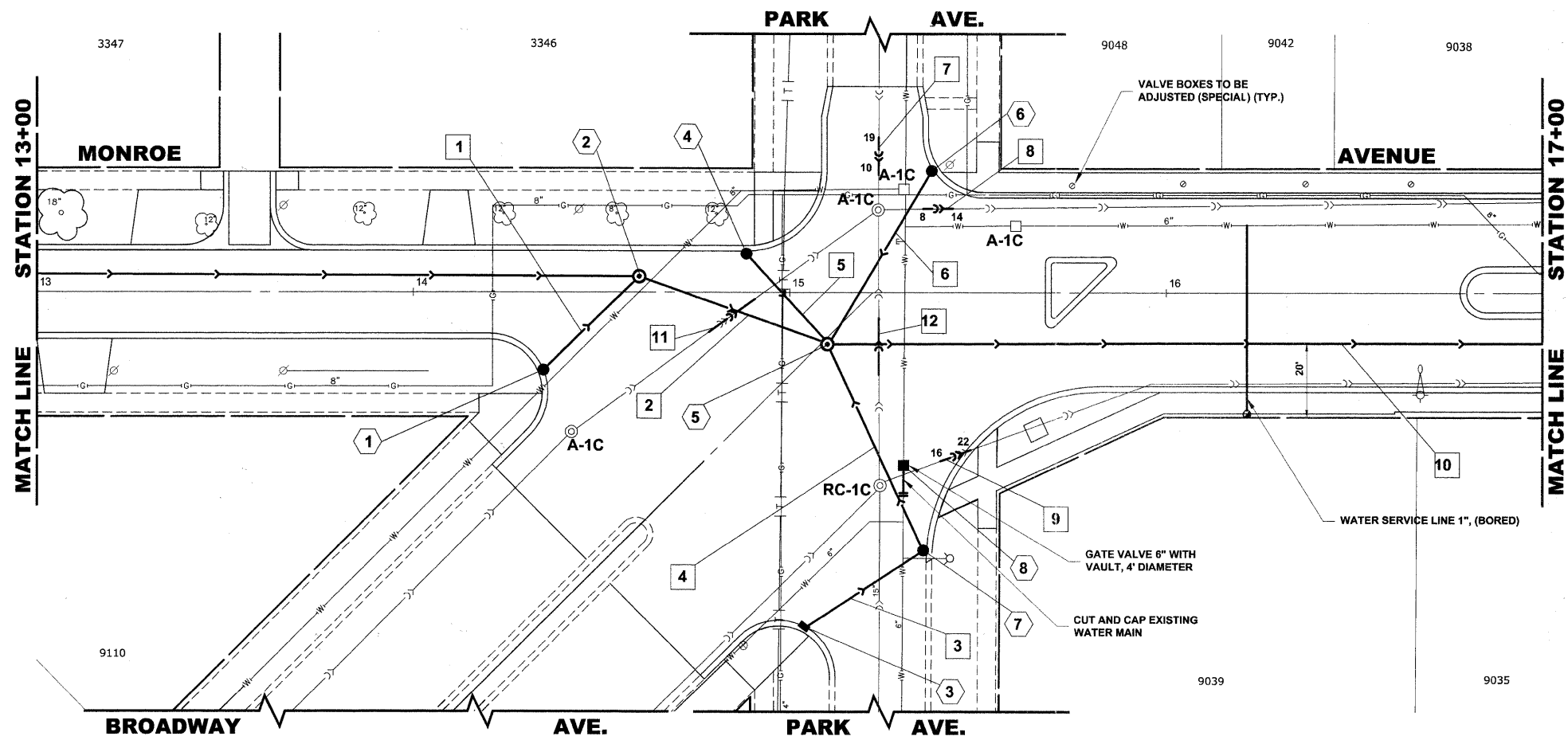


| | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------|-----------------|--------------------|-----------|-----------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|----------------|--------|--------------|-----------|--|
| HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911 | USER NAME - | DESIGNED - WOP, JG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1694 | 07-00122-01-PV | COOK | 86 | 47 | |
| | DATE - 10-24-11 | CHECKED - WOP, JG | REVISED - | | | FIELD BOOK NO. -/AERIALS/LL CONTRACT NO. 63651 | | | | | |
| | | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | | |

SCALE: 1"=20'H. 1"=4'V. SHEET NO. 4 OF 8 SHEETS STA. 13+00 TO STA. 17+00

E.H.E. PROJECT NO. 125-09-23201

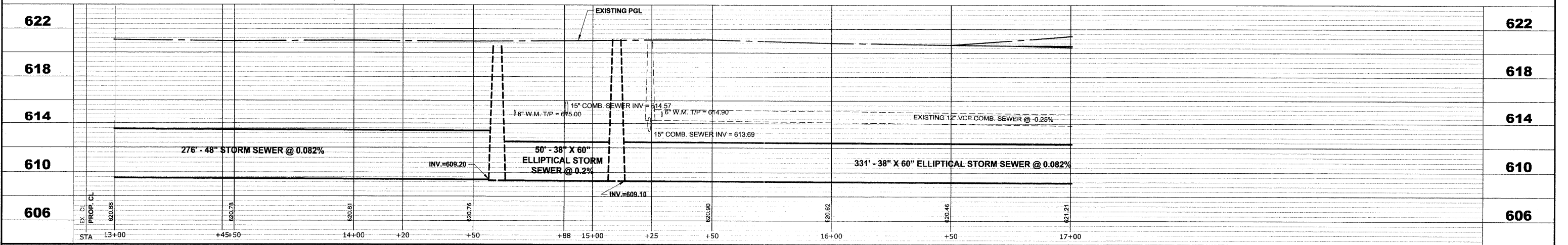
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| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|------------------------------------------------------|---------|----------------------------------------------------------------------------------|
| 1 | 14+35 | 21' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 619.95 | 616.20 (10' NE) |
| 2 | 14+60 | 5' LT | MANHOLES, TYPE A 7' DIA TYPE 1 FRAME, CLOSED LID | 620.35 | 609.14 (38'X60' ESE) 609.20 (48' W) 615.85 (10' SW) |
| 3 | 15+04 | 87' RT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 619.90 | 616.50 (10' E) |
| 4 | 14+89 | 11' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.00 | 616.10 (10' SE) |
| 5 | 15+10 | 13' RT | MANHOLES, TYPE A 7' DIA TYPE 1 FRAME, CLOSED LID | 620.90 | 609.10 (38'X60' E) 609.10 (38'X60' WNW) 615.65 (10' NE) 615.75 (10' NW) |
| 6 | 15+38 | 33' LT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 620.10 | 616.20 (10' SW) |
| 7 | 15+35 | 68' RT | CATCH BASINS, TYPE A 4' DIA, TYPE 1 FRAME, OPEN LID | 619.70 | 616.20 (12' NNW) 616.20 (10' WSW) |
| 8 | 15+30 | 45' RT | VALVE VAULTS, TYPE A4' DIA, TYPE 1 FRAME, CLOSED LID | 621.00 | 616.00 (T/P) |

| PIPE NO. | LENGTH | PAY ITEM | SLOPE | CY.T.B. |
|----------|--------|----------------------|--------|---------|
| 1 | 35' | STORM SEW CL B 2 10 | 1.00% | 1.5 |
| 2 | 50' | SS CL A 2 EQRS 48 | 0.20% | 97.1 |
| 3 | 37' | STORM SEW CL B 2 10 | 1.00% | 0.0 |
| 4 | 60' | STORM SEW CL B 2 12 | 1.00% | 3.4 |
| 5 | 35' | STORM SEW CL B 2 10 | 1.00% | 2.4 |
| 6 | 55' | STORM SEW CL B 2 10 | 1.00% | 4.6 |
| 7 | 9' | 15' PVC CS PIPE REPL | 0.145% | 1.7 |
| 8 | 6' | 12' PVC CS PIPE REPL | 0.194% | 2.8 |
| 9 | 6' | 12' PVC CS PIPE REPL | 0.194% | 0.2 |
| 10 | 331' | SS CL A 2 EQRS 48 | 0.082% | 622.6 |
| 11 | 15' | 15' PVC CS PIPE REPL | 0.145% | 2.5 |
| 12 | 15' | 15' PVC CS PIPE REPL | 0.145% | 2.9 |

PROPOSED IMPROVEMENTS



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

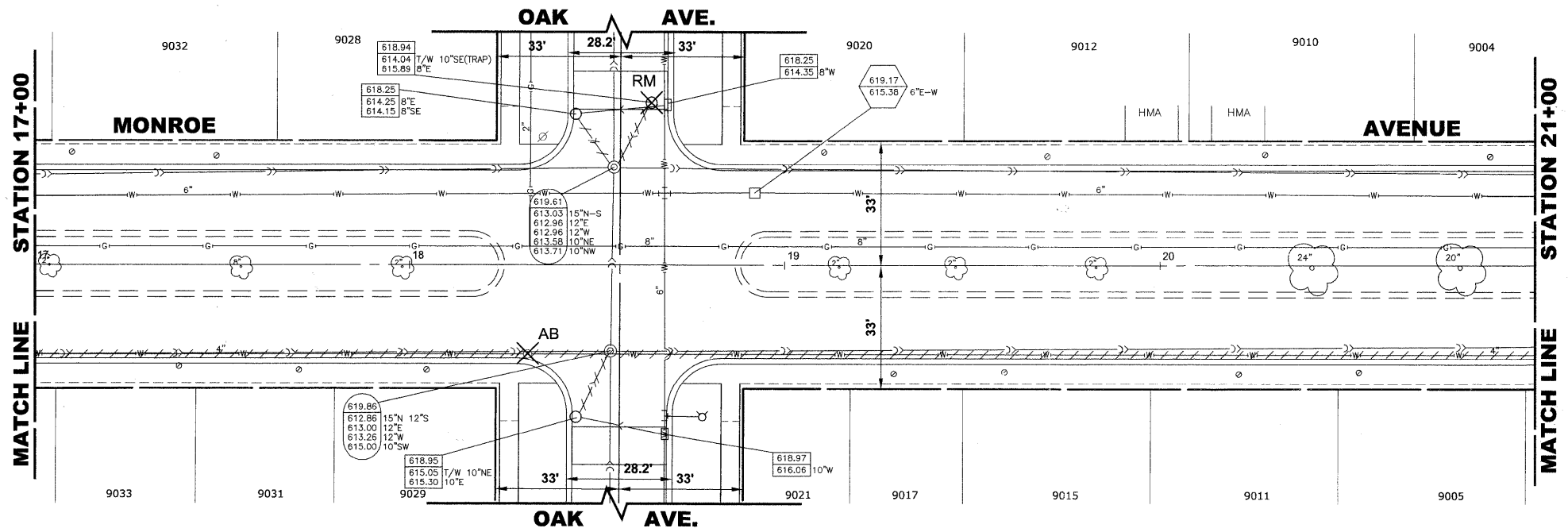
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
 UTILITY PLAN AND PROFILE**

SCALE: 1"=20'H, 1"=4'V. SHEET NO. 5 OF 8 SHEETS STA. 13+00 TO STA. 17+00

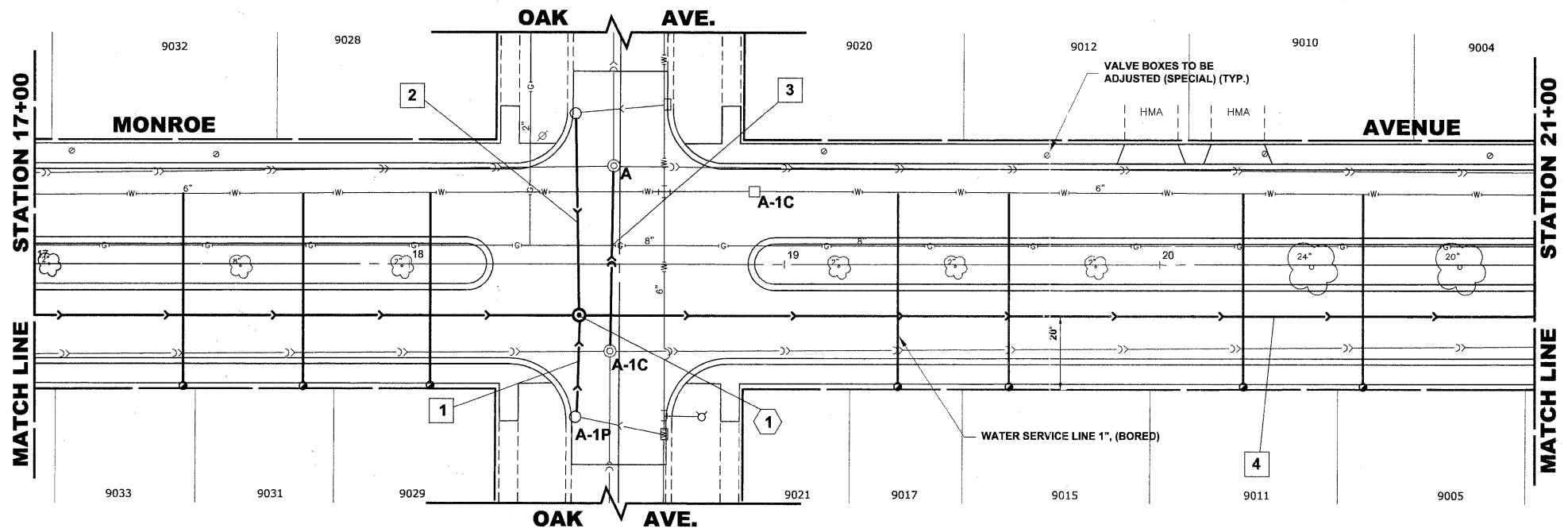
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|-------------------------------------------------------------|----------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 48 |
| FIELD BOOK NO. | CONTRACT NO. | | | |
| -AERIALS/ILL | 63651 | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd\Grand Blvd.dwg Oct. 26, 2011 - 11:31am



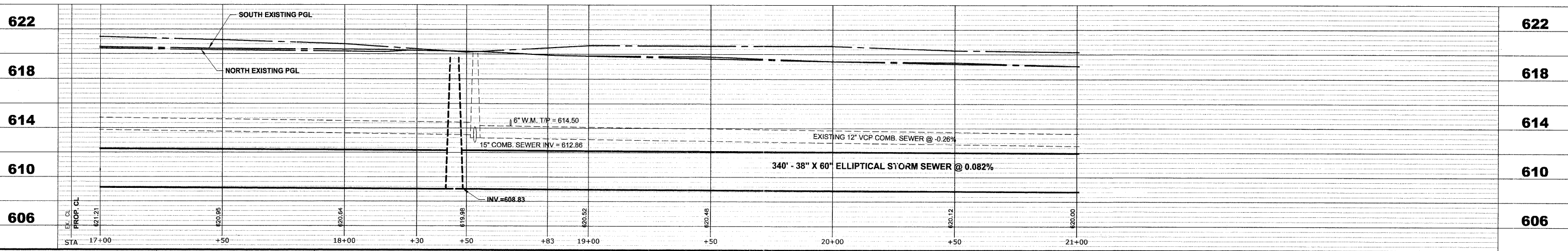
| STRUCTURE NO. | STATION | OFFSET | TYPE | RM EL. | INVERT ELEVATION |
|---------------|---------|--------|------------------------------------------------------|--------|------------------------------------------------------------|
| 1 | 18+45 | 13' RT | MANHOLES, TYPE A, 7" DIA TYPE 1 FRAME, CLOSED LID | 619.50 | 608.83 (38" X 60" E-W) 614.78 (12" S) 613.62 (12" N) |

EXISTING TOPOGRAPHY



| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 27' | STORM SEW CL B 2 12 | 1.00% | 1.3 |
| 2 | 53' | STORM SEW CL B 2 12 | 0.45% | 3.2 |
| 3 | 45' | 15" PVC CS PIPE REPL | 0.145% | 7.5 |
| 4 | 340' | SS CL A 2 EQRS 48 | 0.082% | 559.9 |

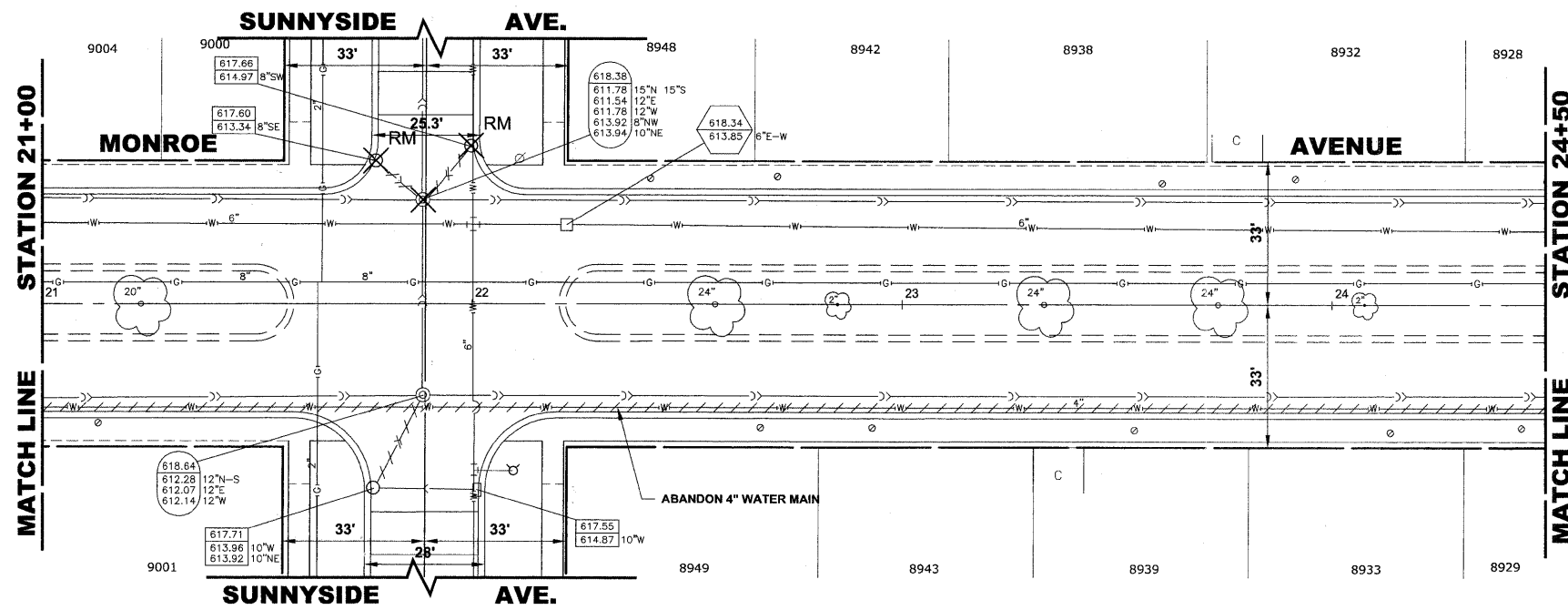
PROPOSED IMPROVEMENTS



| | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------|--------------|--------------------|-----------|-----------------------------------------------------------------|---------------------------------------------------------|-----------------------|----------------|------------------------------|---------------------------------|-----------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - | DESIGNED - WOP, JG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1694 | 07-00122-01-PV | COOK | 86 | 49 |
| | PLOT DATE - | CHECKED - WOP, JG | REVISED - | | | FIELD BOOK NO. - | JAERIALS/LL | CONTRACT NO. 63651 | | |
| | | DATE - 10-24-11 | REVISED - | | | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT M-9003(875) | E.H.E. PROJECT NO. 125-09-23201 | |

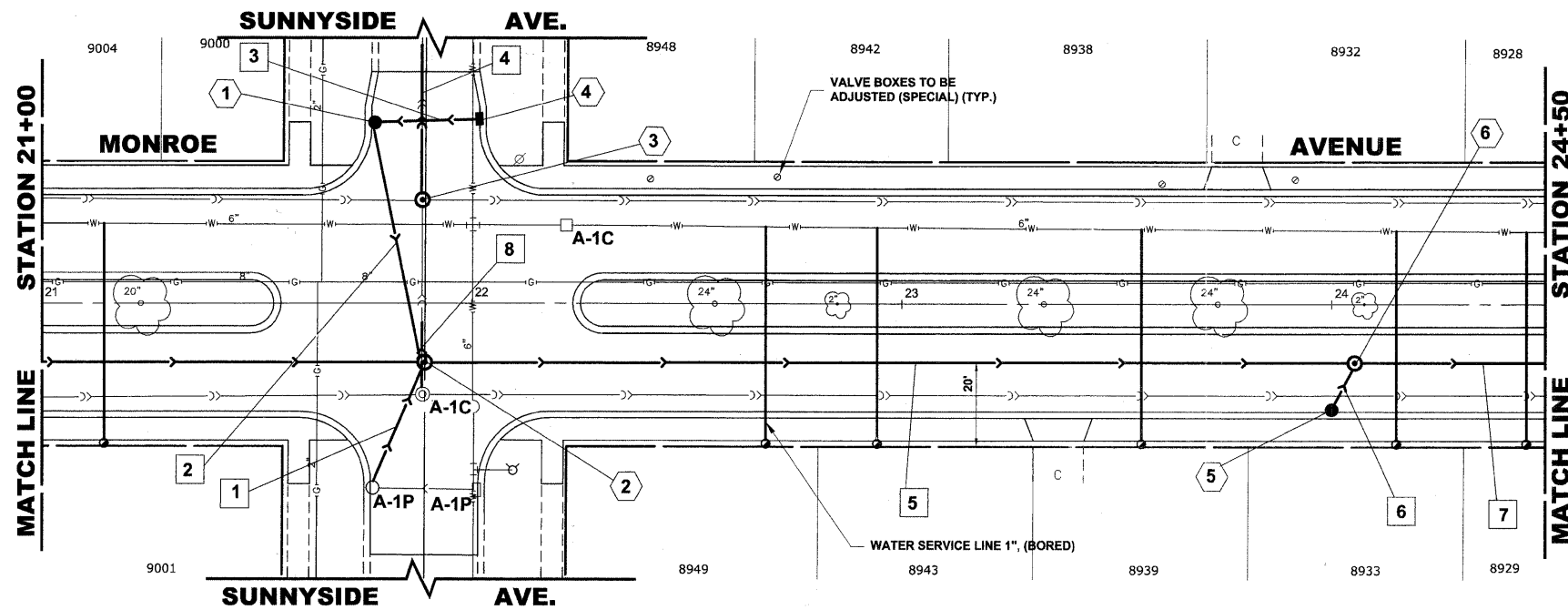
SCALE: 1"=20'H, 1"=4'V. SHEET NO. 6 OF 8 SHEETS STA. 17+00 TO STA. 21+00

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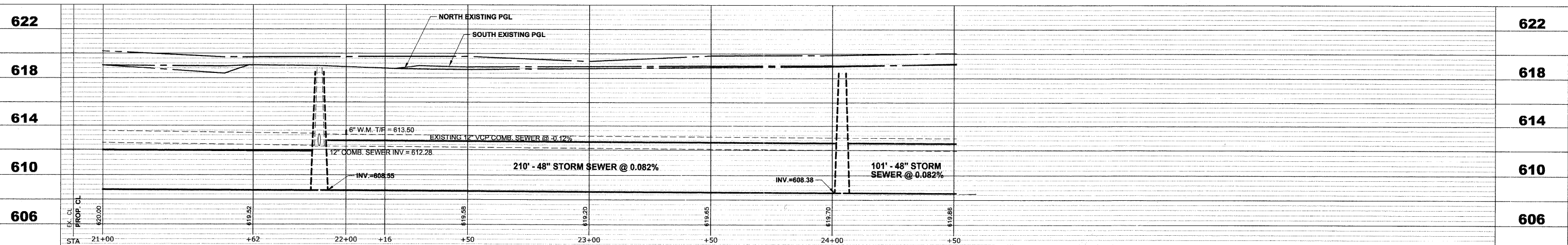
| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM E.L. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------|----------|------------------------------------------------------------------------------|
| 1 | 21+78 | 42' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 617.70 | 614.36 (10' E) 614.36 (12' SSE) |
| 2 | 21+89 | 13' RT | MANHOLES, TYPE A, 7' DIA TYPE 1 FRAME, CLOSED LID | 618.30 | 608.55 (38"X60" VV) 608.55 (48" E) 613.60 (12" SW) 614.11 (12" NNW) |
| 3 | 21+89 | 24' LT | COMBINED SEWER MANHOLE, 4' DIA TYPE 1 FRAME, CLOSED LID | 618.38 | 611.78 (15" N) 611.78 (12" S) 611.54 (12" E) 611.78 (12" W) |
| 4 | 22+02 | 42' LT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 617.60 | 614.50 (10' W) |
| 5 | 24+00 | 24' RT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 617.95 | 614.00 (10' NE) |
| 6 | 24+04 | 13' RT | MANHOLES, TYPE A, 6' DIA TYPE 1 FRAME, CLOSED LID | 618.25 | 608.38 (48" E-W) 613.88 (10' SW) |

EXISTING TOPOGRAPHY



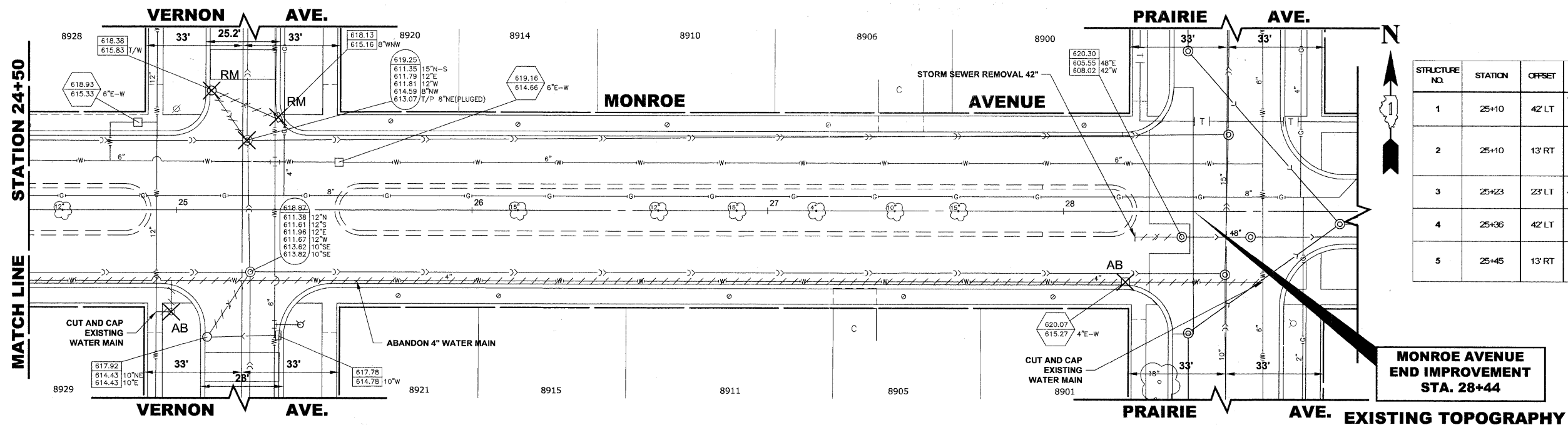
| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B. |
|----------|--------|----------------------|--------|----------|
| 1 | 32' | STORM SEW CL B 2 12 | 1.00% | 1.3 |
| 2 | 56' | STORM SEW CL B 2 12 | 0.45% | 0.0 |
| 3 | 24' | SS DI T1 10 | 0.60% | 0.0 |
| 4 | 35' | 15" PVC CS PIPE REPL | 0.145% | 5.7 |
| 5 | 210' | SS RG CL A 2 48 | 0.082% | 325.3 |
| 6 | 12' | STORM SEW CL B 2 10 | 1.00% | 0.5 |
| 7 | 101' | SS RG CL A 2 48 | 0.082% | 163.6 |
| 8 | 15' | 12" PVC CS PIPE REPL | 0.194% | 2.0 |

PROPOSED IMPROVEMENTS



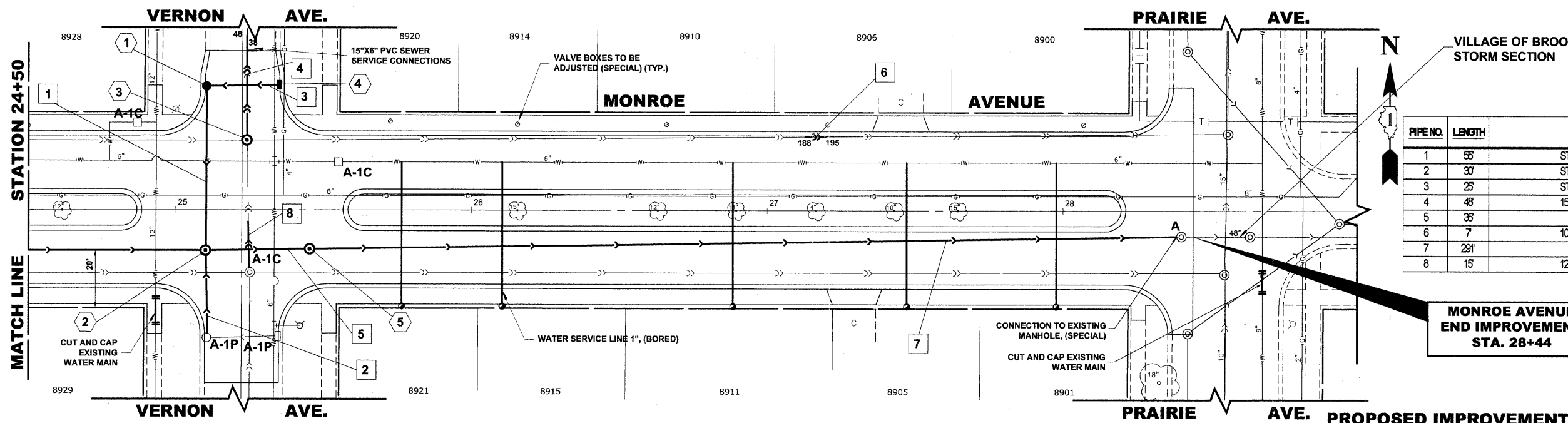
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|------------------------------------------------------------------------------------------------------|-------------------|--------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|------------------------------|----------------|--------|--------------|-----------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - | DESIGNED - WOP, JG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE - | DRAWN - MK, DMM | REVISED - | | | FAU 1684 | 07-00122-01-PV | COOK | 86 | 50 |
| | CHECKED - WOP, JG | REVISED - | FIELD BOOK NO. -JAERIALS/ILL | | | CONTRACT NO. 63651 | | | | |
| | DATE - 10-24-11 | REVISED - | FED. ROAD DIST. NO. 1 ILLINOIS | | | FED. AID PROJECT M-9003(875) | | | | |
| <p>SCALE: 1"=20'H. 1"=4'V. SHEET NO. 7 OF 8 SHEETS STA. 21+00 TO STA. 24+50</p> | | | | | <p>E.H.E. PROJECT NO. 125-09-23201</p> | | | | | |

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| STRUCTURE NO. | STATION | OFFSET | TYPE | RIM EL. | INVERT ELEVATION |
|---------------|---------|--------|---------------------------------------------------------|---------|----------------------------------------------------------------------|
| 1 | 25+10 | 42' LT | CATCH BASINS, TYPE A, 4' DIA, TYPE 1 FRAME, OPEN LID | 618.50 | 614.75 (10' E) 613.00 (12' S) |
| 2 | 25+10 | 13' RT | MANHOLES, TYPE A 6' DIA TYPE 1 FRAME, CLOSED LID | 618.80 | 605.95 (48' E) 608.30 (48' W) 612.45 (12' S) 614.13 (12' N) |
| 3 | 25+23 | 23' LT | COMBINED SEWER MANHOLE, 4' DIA TYPE 1 FRAME, CLOSED LID | 619.25 | 611.35 (15' N-S) 611.79 (12' E) 611.81 (12' W) |
| 4 | 25+36 | 42' LT | INLETS, TYPE A TYPE 1 FRAME, OPEN LID | 618.50 | 615.00 (10' W) |
| 5 | 25+45 | 13' RT | MANHOLES, TYPE A 6' DIA TYPE 1 FRAME, CLOSED LID | 618.75 | 608.30 (48' E) 605.60 (48' W) |

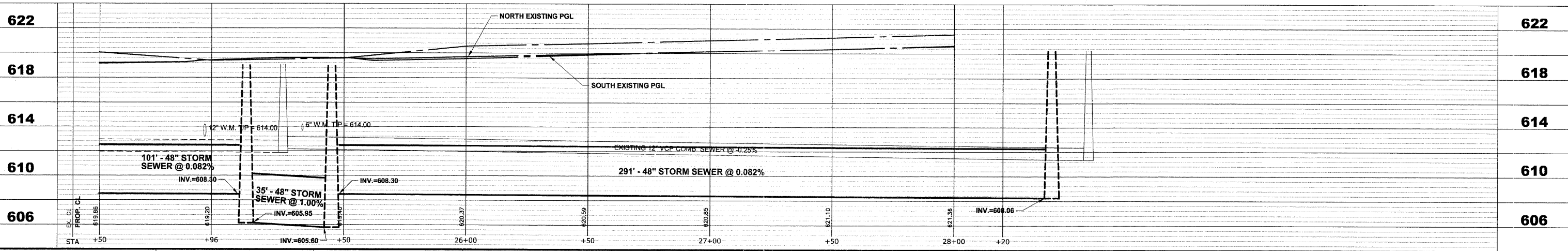
**MONROE AVENUE
END IMPROVEMENT
STA. 28+44**



VILLAGE OF BROOKFIELD
STORM SECTION

| PIPE NO. | LENGTH | PAY ITEM | SLOPE | C.Y.T.B |
|----------|--------|----------------------|--------|---------|
| 1 | 55' | STORM SEW CL B 2 12 | 1.00% | 3.6 |
| 2 | 30' | STORM SEW CL B 2 12 | 1.00% | 1.7 |
| 3 | 25' | STORM SEW CL B 2 10 | 1.00% | 0.0 |
| 4 | 48' | 15" PVC CS PIPE REPL | 0.145% | 11.6 |
| 5 | 35' | SS RG CL A 2 48 | 1.00% | 75.2 |
| 6 | 7' | 10" PVC CS PIPE REPL | 0.194% | 1.3 |
| 7 | 291' | SS RG CL A 2 48 | 0.082% | 534.8 |
| 8 | 15' | 12" PVC CS PIPE REPL | 0.194% | 3.0 |

**MONROE AVENUE
END IMPROVEMENT
STA. 28+44**



| | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|-------------------------------|-----------------------------|--------------------|----------------------|-------------------|
| <p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p> | USER NAME - WOP, JG | DESIGNED - WOP, JG DRAWN - MK, DMM CHECKED - WOP, JG DATE - 10-24-11 | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MONROE AVENUE UTILITY PLAN AND PROFILE | ROUTE NO. - FAU 1694 | SECTION - 07-00122-01-PV | COUNTY - COOK | TOTAL SHEETS - 86 | SHEET NO. - 51 |
| | PLOT SCALE - 1"=20'H, 1"=4V | SCALE: 1"=20'H, 1"=4V | SHEET NO. 8 OF 8 SHEETS | | | STA. 24+50 TO STA. 28+37 | FIELD BOOK NO. -AERIALS/ILL | CONTRACT NO. 63651 | | |
| | PLOT DATE - | FED. ROAD DIST. NO. 1 ILLINOIS | FED. AID PROJECT M-9003(875) | | | H.E. PROJECT NO. 125-09-23201 | | | | |
| | | | | | | | | | | |

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

1. THE MWRDGC LOCAL 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. (NO FLOOR DRAINS AFFECTED BY THIS PROJECT)
4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM. (NO FOOTING DRAINS OR DOWNSPOUTS DRAINS AFFECTED BY THIS PROJECT)
5. ALL PVC STORM, COMBINED, AND SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3139, AND THE PIPE SHALL CONFORM TO ASTM D-2241. ALL PVC SEWER PIPE SHALL BE SDR 26. ALL RCCP SEWER TO MEET ASTM C-76 AND JOINTS SHALL CONFORM TO ASTM C-443.
ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANS/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANS/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.
6. ALL SANITARY SEWER CONSTRUCTION, AND ALSO STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/2" 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 WHEN USING PVC PIPE.
7. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
8. 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:
 - 1) CIRCULAR SAW-CUT OF SEWER MAIN BY MECHANICAL CORING MACHINE, AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 2) 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.
 - 3) 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 IT FIRMLY IN PLACE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
9. WHEREVER A SANITARY/COMBINED 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 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.
10. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
12. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
13. ALL INLET AND OUTLET PIPES OF SANITARY SEWER MANHOLES AND OTHER UNDERGROUND STRUCTURES (IN COMBINED SEWER AREAS, ALSO INCLUDED ARE ALL COMBINED/STORM SEWER MANHOLES, CATCH BASINS, INLETS, AND UNDERGROUND DETENTION STORAGE STRUCTURES) SHALL BE JOINED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTORS CONFORMING TO ASTM C-443 AND C-923 WITH STAINLESS STEEL BAND.
14. ALL PIPE CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE BY CORE-DRILLING THE WALL OF THE EXISTING STRUCTURE AND INSERTING AN EXPANDABLE, FLEXIBLE RUBBER CONNECTOR INTO THE WALL OF THE EXISTING STRUCTURE. THE CONNECTOR SHALL BE A PSX DIRECT DRIVE CONNECTOR AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR A PRIOR APPROVED EQUAL.
15. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

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 INCLUDED IN THE COST OF 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 INCLUDED IN THE COST OF THE CONTRACT.

ALL COSTS INVOLVED IN CONNECTING OF PROPOSED STORM SEWERS AND STORM STRUCTURES TO EXISTING STORM SEWERS OR PROPOSED STORM SEWERS SHALL BE INCLUDED IN THE 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 BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS YARD LOCATED AT 4545 EBERLY AVENUE.

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 AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG, NON-SHRINK CONCRETE/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.

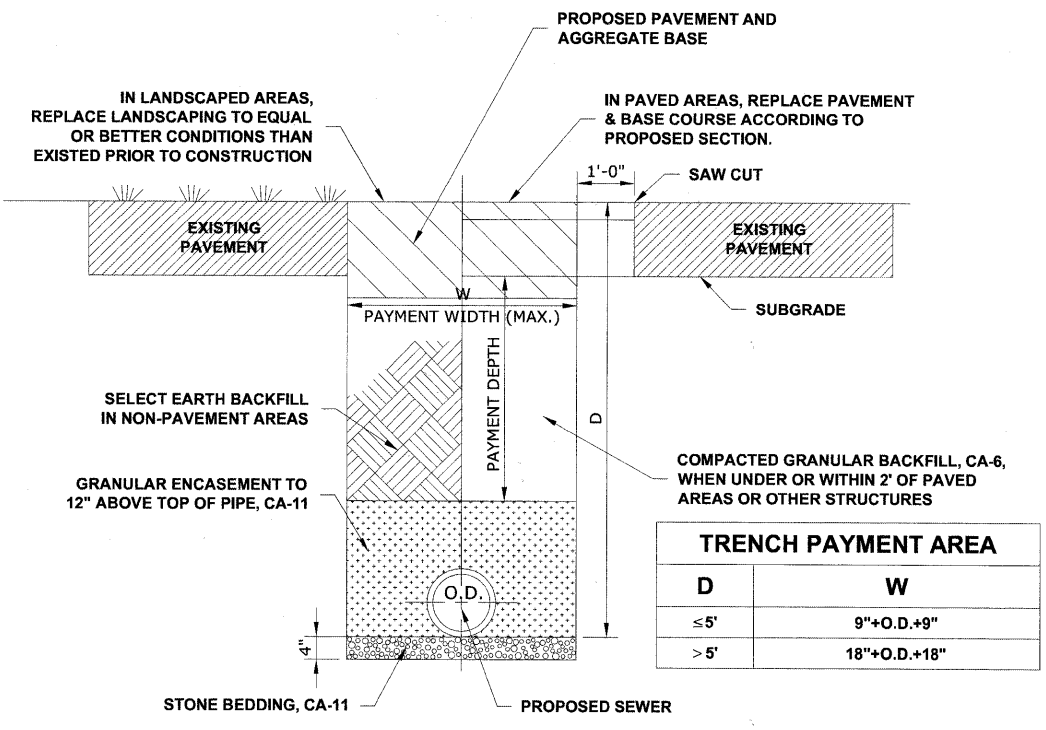
SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

| TYPE OF PIPE | MATERIAL STANDARD | JOINT STANDARD |
|---------------------------------|----------------------|----------------------|
| REINFORCED CONCRETE PIPE | ASTM C-76 | ASTM C-361 |
| POLYVINYLCHLORIDE PIPE (6"-12") | ASTM D-2241 | ASTM D-3139 |
| POLYVINYLCHLORIDE PIPE (15"+) | ASTM D-3034 | ASTM D-3212 |
| DUCTILE IRON PIPE | CLASS 52 ANS-A 21.51 | ANS/AWWA C111/A21.11 |

FINAL ADJUSTMENT OF ALL STRUCTURES IN THE PAVEMENT, INCLUDING THOSE IN THE PROPOSED BASE COURSE, SHALL NOT BE COMPLETED UNTIL AFTER THE PLACEMENT OF THE HOT-MIX ASPHALT CONCRETE BINDER COURSE.

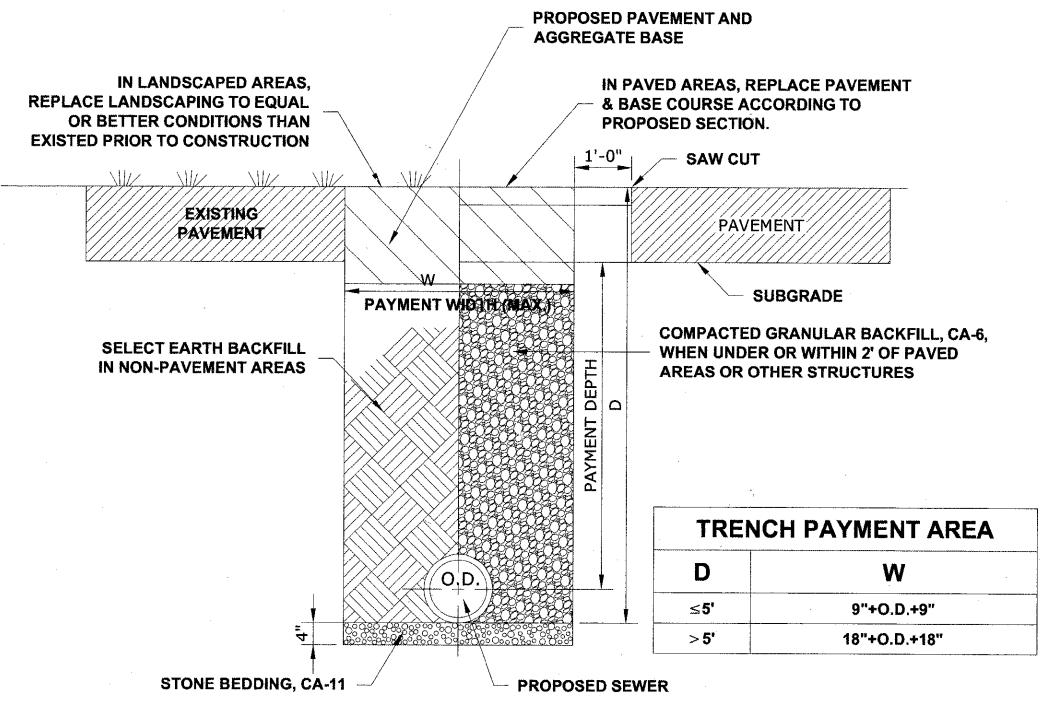
THE AREA WITHIN THE ROUNDOUT SHALL BE FILLED WITH CRUSHED STONE AND A MINIMUM OF 1 1/2" THICK BITUMINOUS MATERIAL APPROVED BY THE ENGINEER. COST IS TO BE INCLUDED IN THE RESPECTIVE PAY ITEM FOR THE NEW, ADJUSTED OR RECONSTRUCTED STRUCTURE.

A 3 FOOT PIECE OF PIPE UNDERDRAIN SHALL BE INSTALLED IN EACH DIRECTION PARALLEL TO THE CURB AND GUTTER AT EACH DRAINAGE STRUCTURE. THE TOTAL LENGTH OF 6" PVC UNDERDRAINS TO BE INSTALLED IS 408 FT.



TYPICAL PVC AND DIP SEWER TRENCH DETAIL

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



TYPICAL RCCP SEWER TRENCH DETAIL

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

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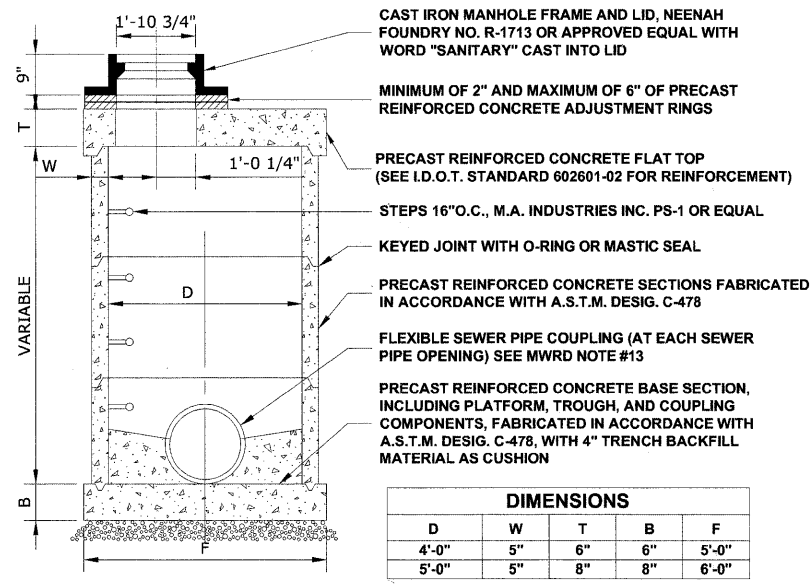
HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES DETAILS
 SCALE: NOT TO SCALE SHEET NO. 1 OF 3 SHEETS STA. - TO STA. -

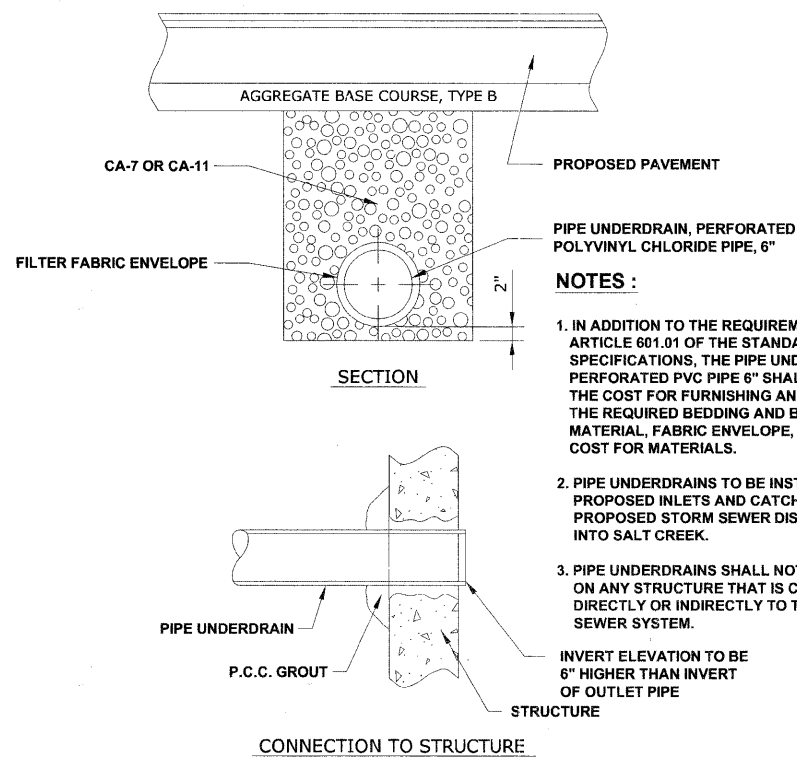
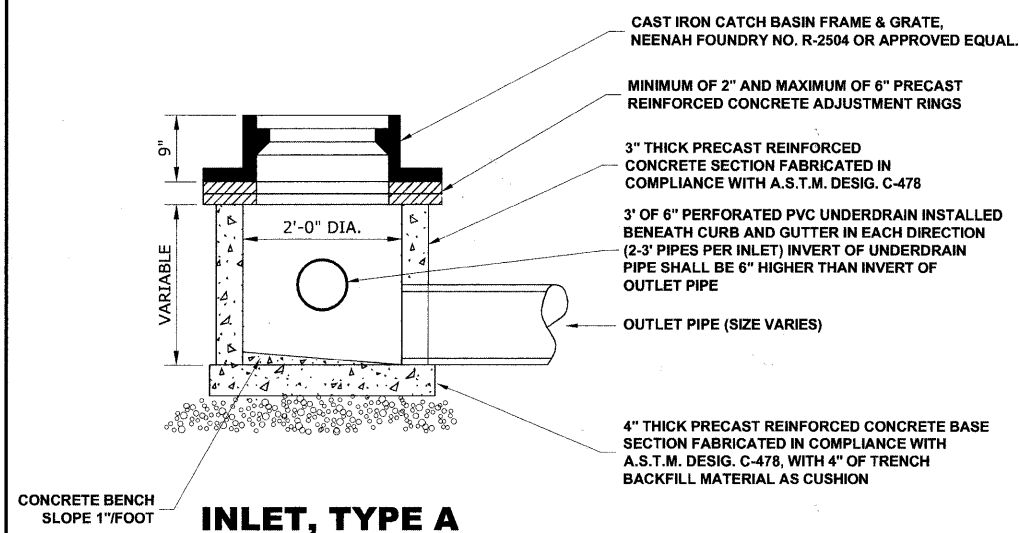
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|-------------------------------------------------------------|----------------|--------|--------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 52 |
| FIELD BOOK NO. | -AERIALS/ILL | | CONTRACT NO. 63651 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |



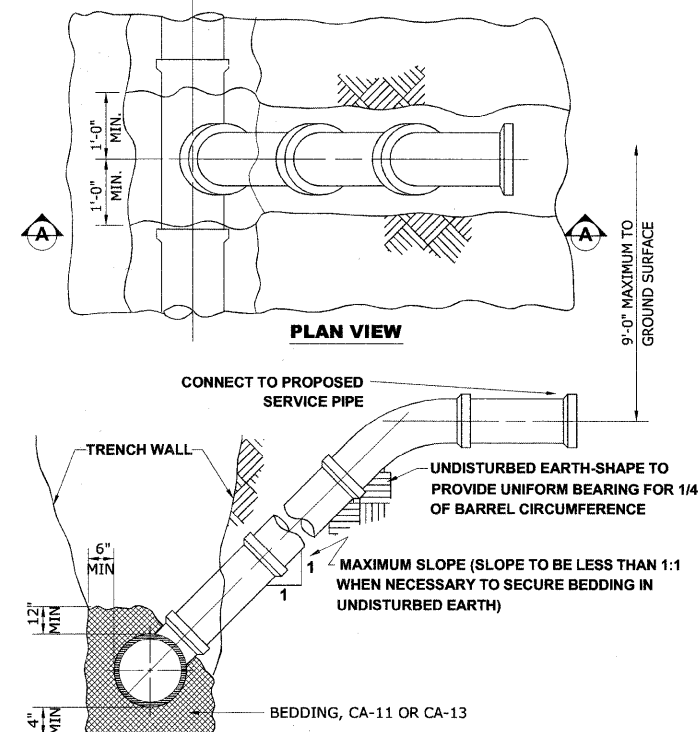
RESTRICTED DEPTH COMBINED SEWER MANHOLE

DUCTILE IRON PIPE SPECIFICATIONS

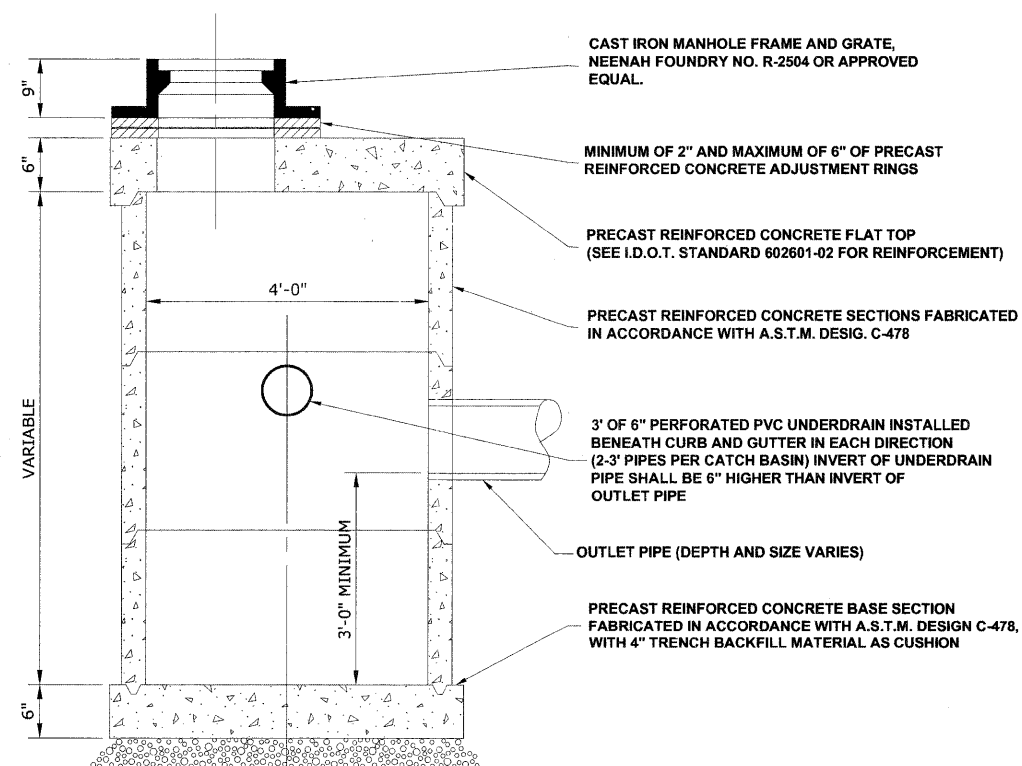
1. ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11. WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, 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 EIGHT (8) 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.



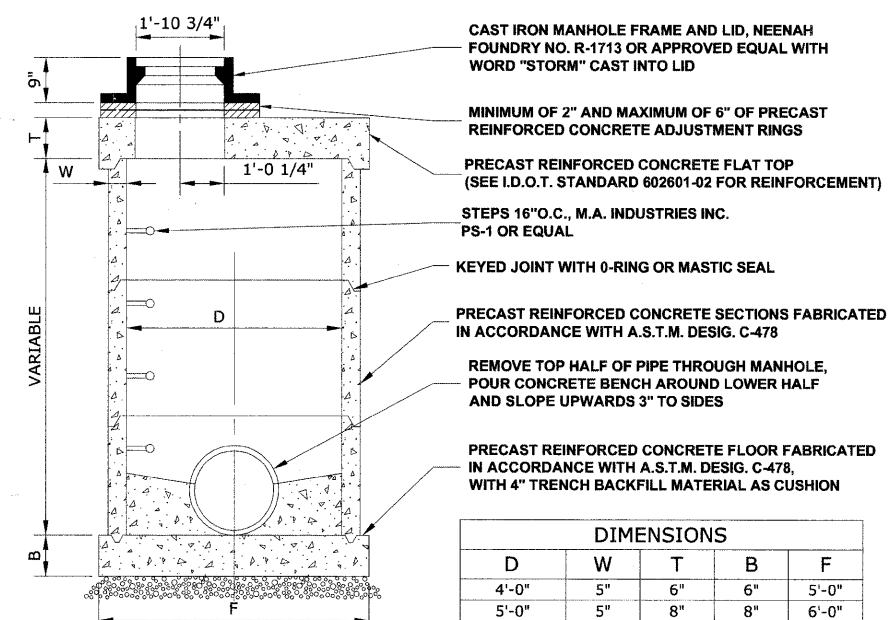
PIPE UNDERDRAIN DETAIL



TYPICAL RISER FOR SERVICE LATERAL



RESTRICTED DEPTH CATCH BASIN



RESTRICTED DEPTH STORM MANHOLE

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HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

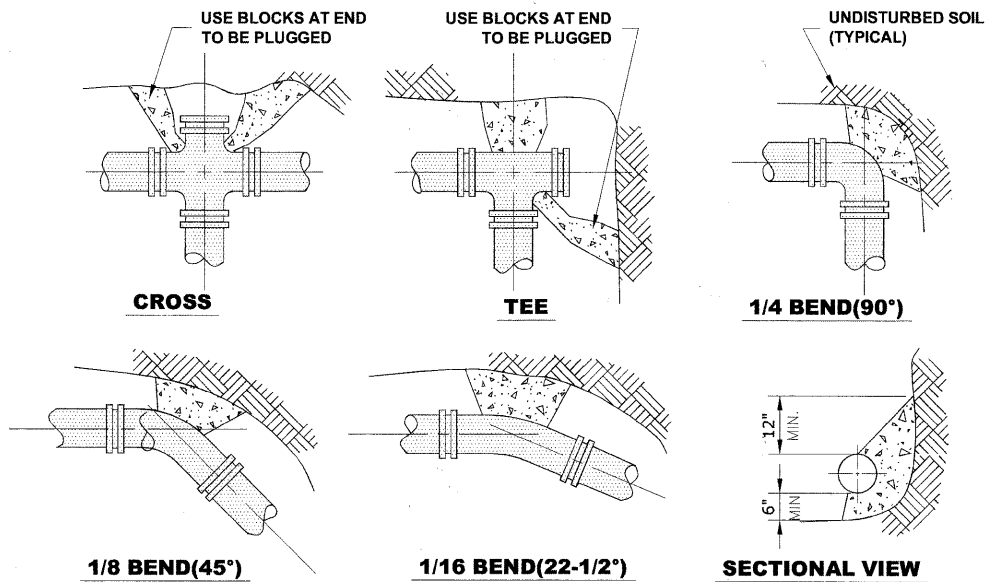
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES
 DETAILS**

SCALE: NOT TO SCALE SHEET NO. 2 OF 3 SHEETS STA. - TO STA. -

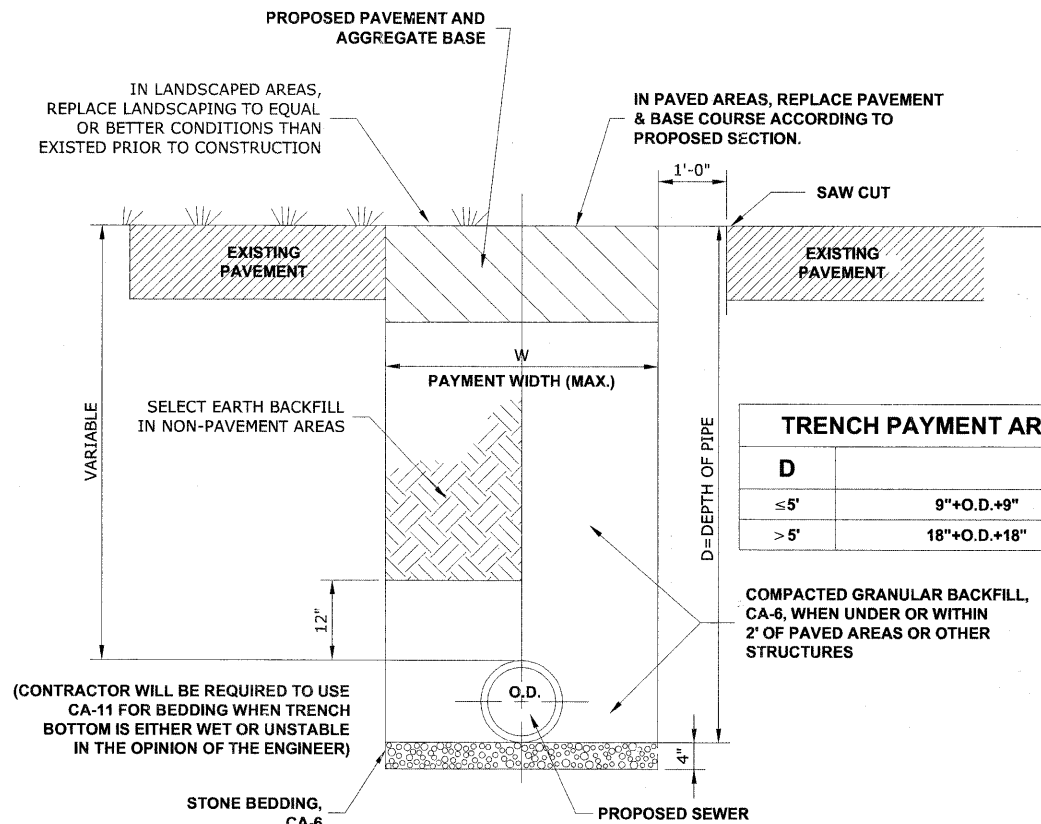
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|-----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 53 |
| FIELD BOOK NO. -/AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

H.E. PROJECT NO. 125-09-23201



- NOTE:**
1. THRUST BLOCKS TO BE USED AT 1/16(22-1/2°) OR GREATER BENDS & AT ALL ENDS TO BE PLUGGED.
 2. PRECAST CONCRETE THRUST BLOCKS TO BE PLACED AGAINST FIRM, UNDISTURBED SOIL.

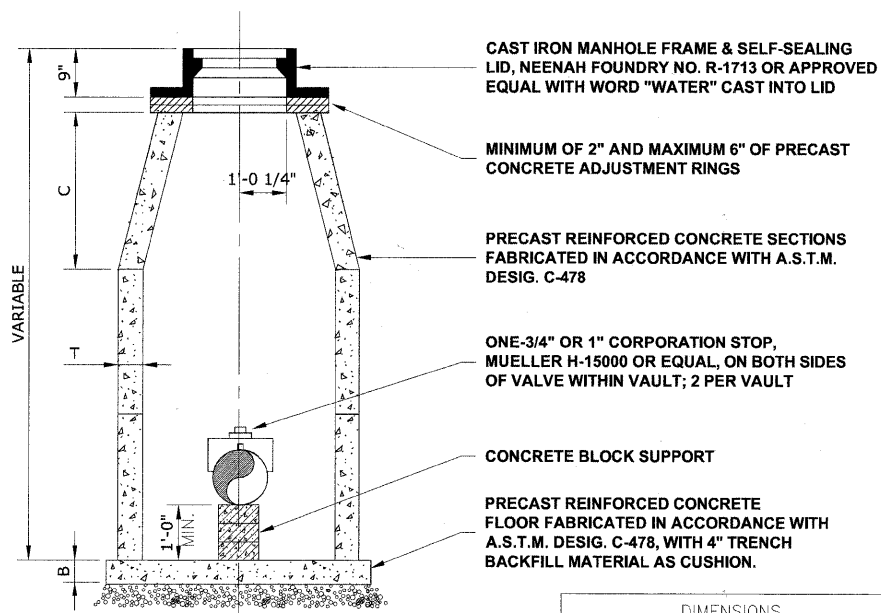
THRUST BLOCK DETAIL



(CONTRACTOR WILL BE REQUIRED TO USE CA-11 FOR BEDDING WHEN TRENCH BOTTOM IS EITHER WET OR UNSTABLE IN THE OPINION OF THE ENGINEER)

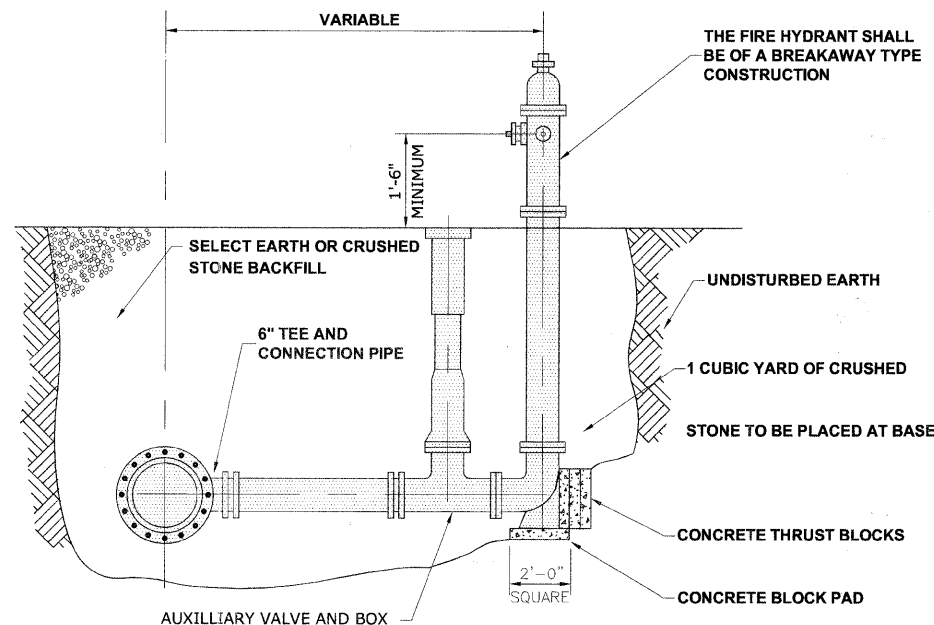
| TRENCH PAYMENT AREA | |
|---------------------|--------------|
| D | W |
| ≤ 5' | 9"+O.D.+9" |
| > 5' | 18"+O.D.+18" |

TYPICAL WATER MAIN TRENCH DETAIL



| DIMENSIONS | | | |
|------------|-------|---------|----|
| D | C | T(MIN.) | B |
| 4'-0" | 2'-6" | 4" | 6" |
| 5'-0" | 3'-9" | 5" | 8" |

STANDARD VALVE VAULT DETAIL



FIRE HYDRANT DETAIL

M.W.R.D. SEWER CROSSING NOTES:

1. AN MWRD INSPECTOR MUST BE PRESENT DURING CONSTRUCTION OF THE PROPOSED SEWER IN CLOSE PROXIMITY TO THE MWRD SEWER.
2. IN THE EVENT THE MWRD STRUCTURES/MANHOLES/FACILITIES NEED TO BE ENTERED, THE RESPONSIBLE PARTY MUST SUBMIT A COMPLETED AND NOTARIZED RELEASE AND INDEMNITY FORM FOR CONFINED SPACE ENTRY.
3. THE MWRD SEWER SHALL BE LOCATED PRIOR TO PROCEEDING WITH ANY CONSTRUCTION WORK TO MAKE SURE THAT THERE IS ENOUGH VERTICAL CLEARANCE BETWEEN THE PROPOSED SEWER AND THE MWRD SEWER.
4. SHOULD A CONFLICT BE DISCOVERED BETWEEN THE SEWER AND THE MWRD INTERCEPTOR DURING EXCAVATION, THE SEWER WORK MUST STOP AND THE DESIGN ENGINEER AND THE MWRD MUST BE CONTACTED IMMEDIATELY. APPROVAL MUST BE PROVIDED BY THE MWRD PRIOR TO COMPLETION OF ANY NECESSARY CONFLICT SEWER WORK.
5. ALL MWRD MANHOLES AND SEWERS ARE TO BE PROTECTED BY THE CONTRACTOR AT ALL TIMES.
6. THE CONTRACTOR SHALL VACUUM/HAND EXCAVATE WITHIN 2 FEET OF THE MWRD SEWER.
7. THE MWRD SEWER NEAR THE PROPOSED SEWER CROSSINGS SHALL BE TELEVIEWED BEFORE EXCAVATION AND AFTER CONSTRUCTION TO IDENTIFY ANY POTENTIAL DAMAGE THAT MAY OCCUR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE MWRD SEWER TO THE SATISFACTION OF THE MWRD.

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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

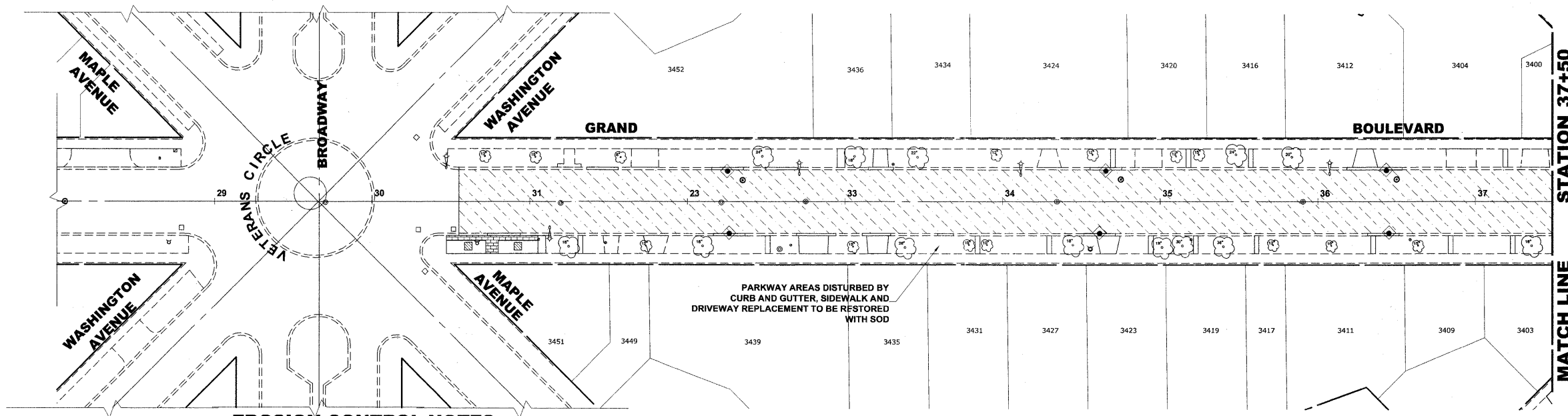
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES
DETAILS**

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

| | | | | |
|--------------------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 54 |
| FIELD BOOK NO. -/AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201

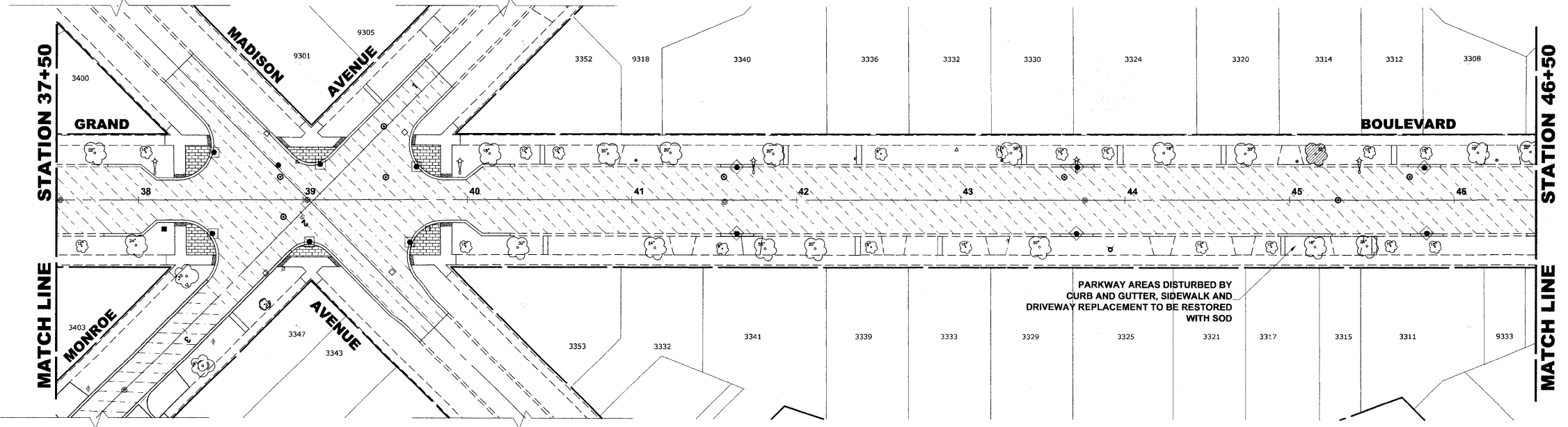
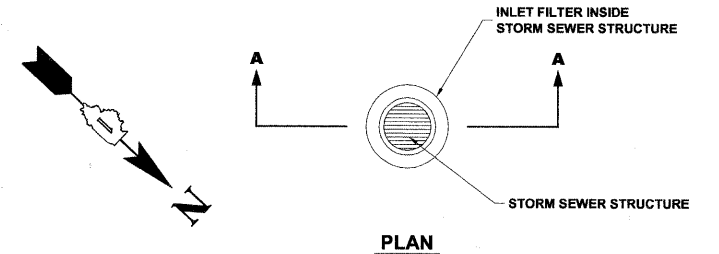
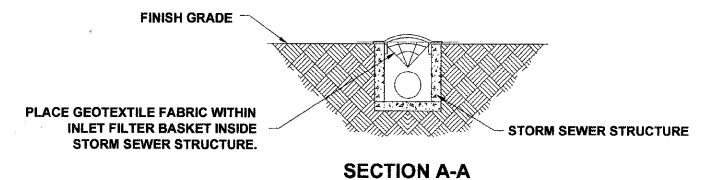


EROSION CONTROL NOTES

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 |



Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd 40_Schedule.dwg Oct 24, 2011 1:53pm



1911 Research Road
 Waukegan, Illinois 60087-2124
 Phone: 815.965.0900
 Fax: 815.965.1022

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

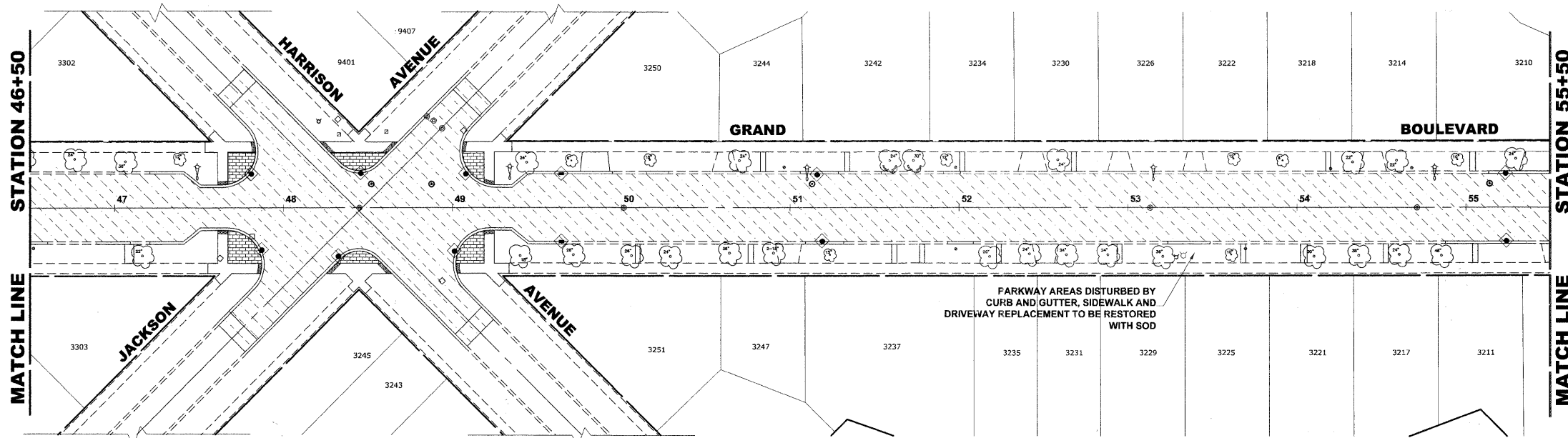
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 1 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 55 |
| FIELD BOOK NO. | CONTRACT NO. | | | |
| -AERIALS/ILL | 63651 | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

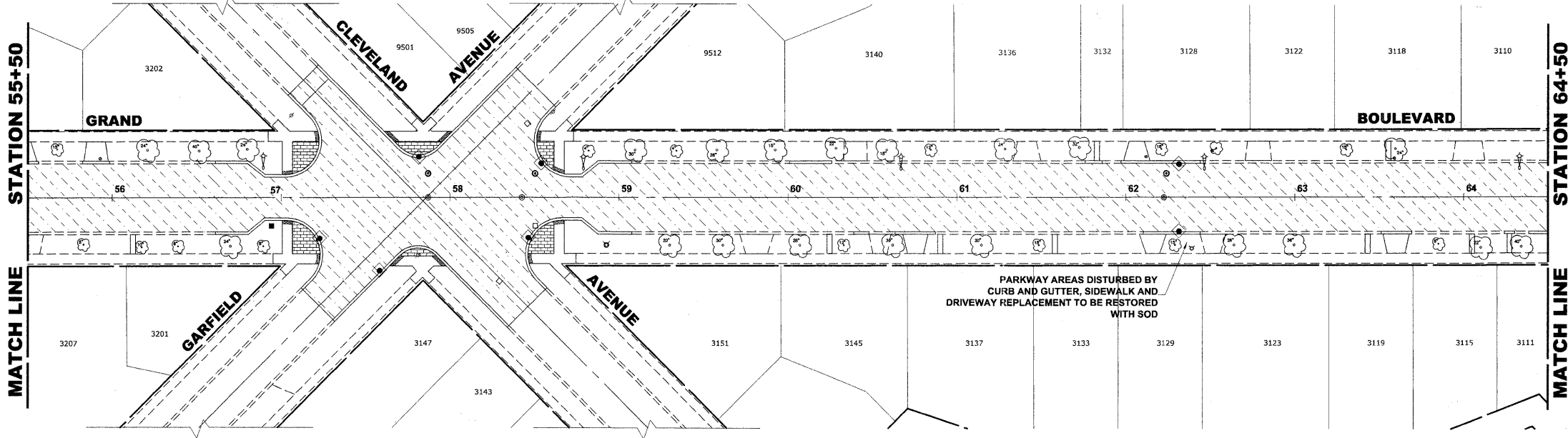
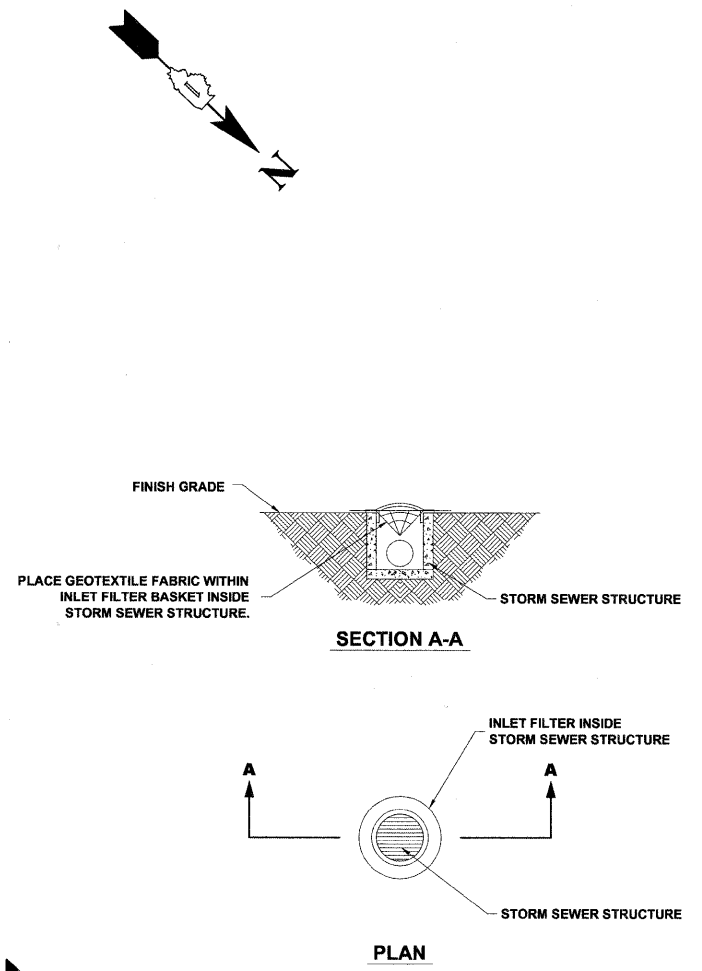


EROSION CONTROL NOTES

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 |



Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineering\Grand Blvd 40_Schedule.dwg Oct 24, 2011 1:53pm



| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

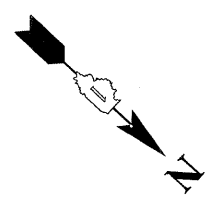
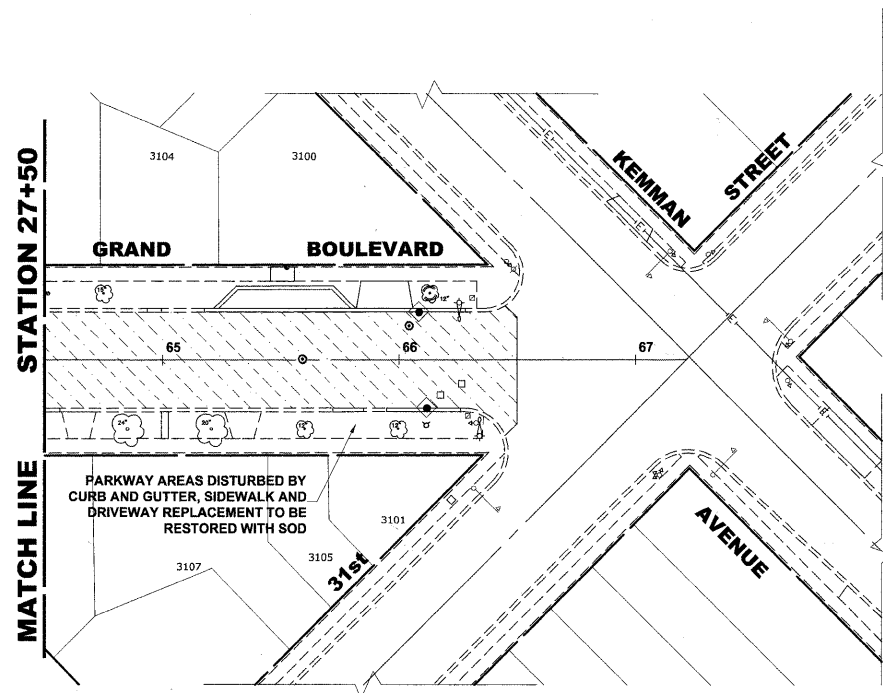
EROSION CONTROL PLAN

SCALE: 1" = 40'

SHEET NO. 2 OF 4 SHEETS STA. - TO STA. -

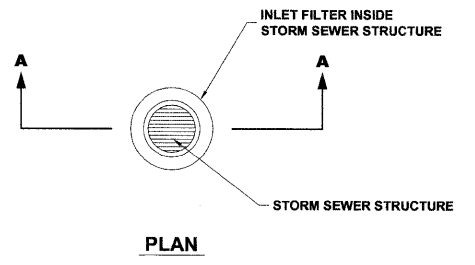
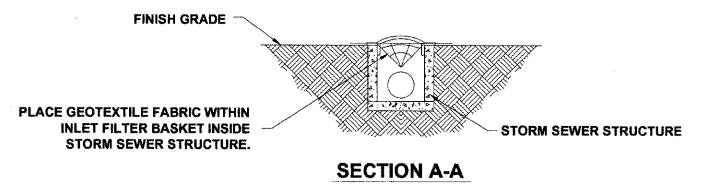
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|----------------------------|---------------------------|---------------------------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 56 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201



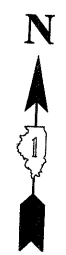
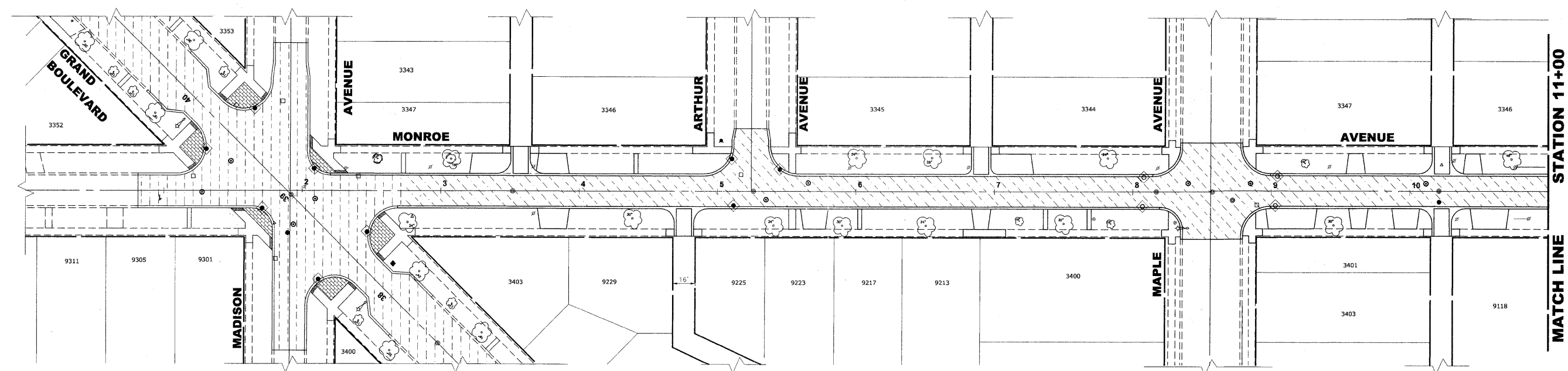
LEGEND

| 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\12509232 - Grand Blvd. Design\Engineering\Grand Blvd 40_Schedule.dwg Oct 24, 2011 1:53pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

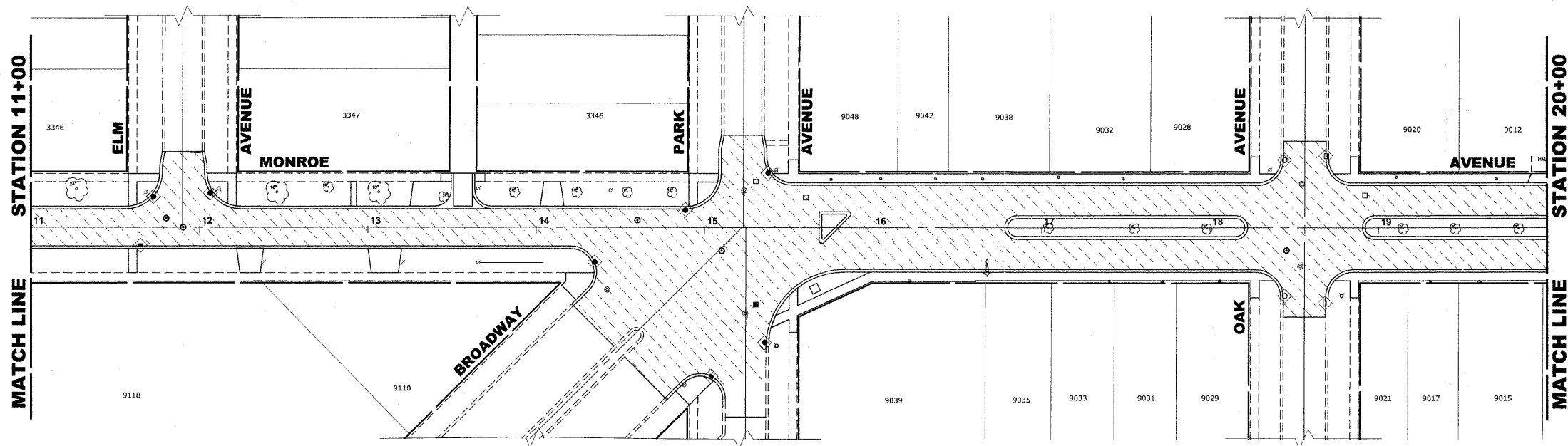
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 57 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

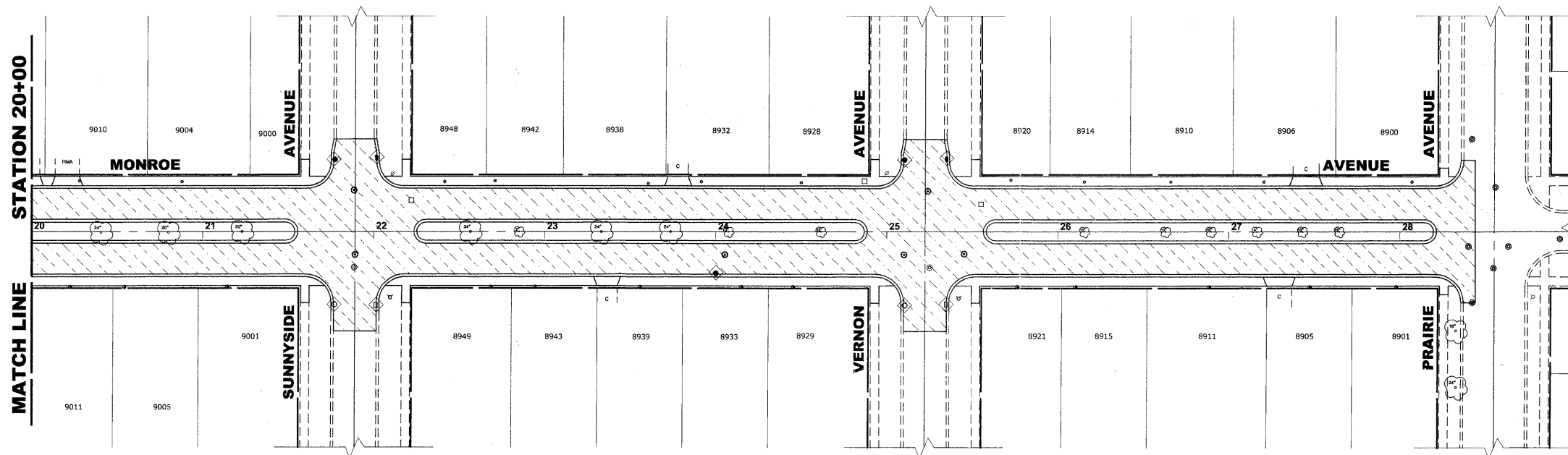
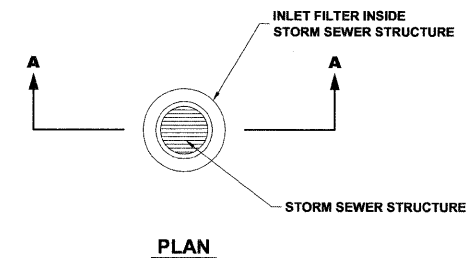
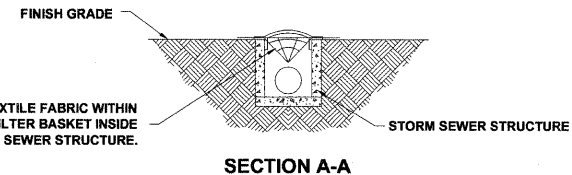


EROSION CONTROL NOTES

1. SEE IDOT STANDARD 280001-05 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 |



Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd 40 - Scafile.dwg Oct 24, 2011 1:53pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 4 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1684 | 07-00122-01-PV | COOK | 86 | 58 |
| FIELD BOOK NO. - JAERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Signing Legend.dwg Oct 24, 2011 - 9:44am

| SYMBOL | SIGN | CODE & SIZE | SYMBOL | SIGN | CODE & SIZE | SYMBOL | SIGN | CODE & SIZE |
|--------|------|------------------|--------|------|------------------|--------|------|-------------|
| | | R1-1 30"x30" | | | R7-1a 24"x30" | | | |
| | | R1-3 12"x6" | | | R4-7a 24"x30" | | | |
| | | R2-1 24"x30" | | | R3-1 24"x24" | | | |
| | | R5-1 30"x30" | | | R3-2 24"x24" | | | |
| | | R6-2 18"x24" | | | | | | |
| | | R6-2 18"x24" | | | | | | |
| | | W16-7p 18"x6" | | | | | | |
| | | S1-1 36"x36" | | | | | | |
| | | R3-SR 24"x30" | | | | | | |
| | | W2-6 30"x30" | | | | | | |
| | | R7-1 24"x30" | | | | | | |

LEGEND OF SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|-------------------------------------------------------------|
| | PROPOSED TRAFFIC SIGN (TELESCOPING STEEL SIGN SUPPORT) |
| | PROPOSED TRAFFIC SIGN (2 TELESCOPING STEEL SIGN SUPPORT) |

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 Civil Engineers
 Municipal Consultants
 Established 1911

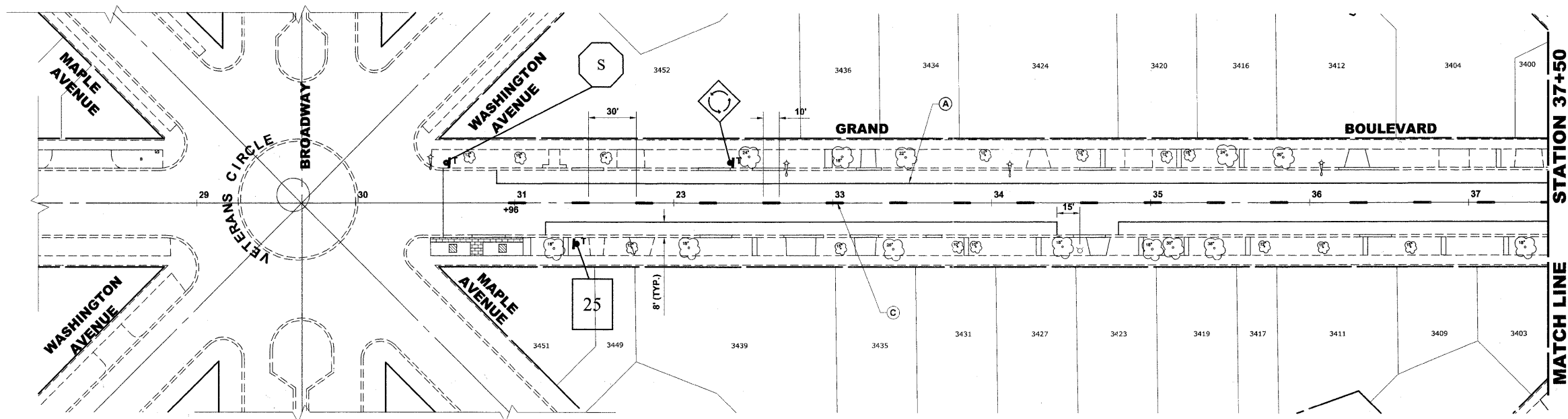
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING LEGEND AND NOTES

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

| | | | | |
|---------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 59 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |



**SIGNING PLAN
LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION |
|--------|-----------------------------------------------------------|
| T | PROPOSED TRAFFIC SIGN (TELESCOPING STEEL SIGN SUPPORT) |

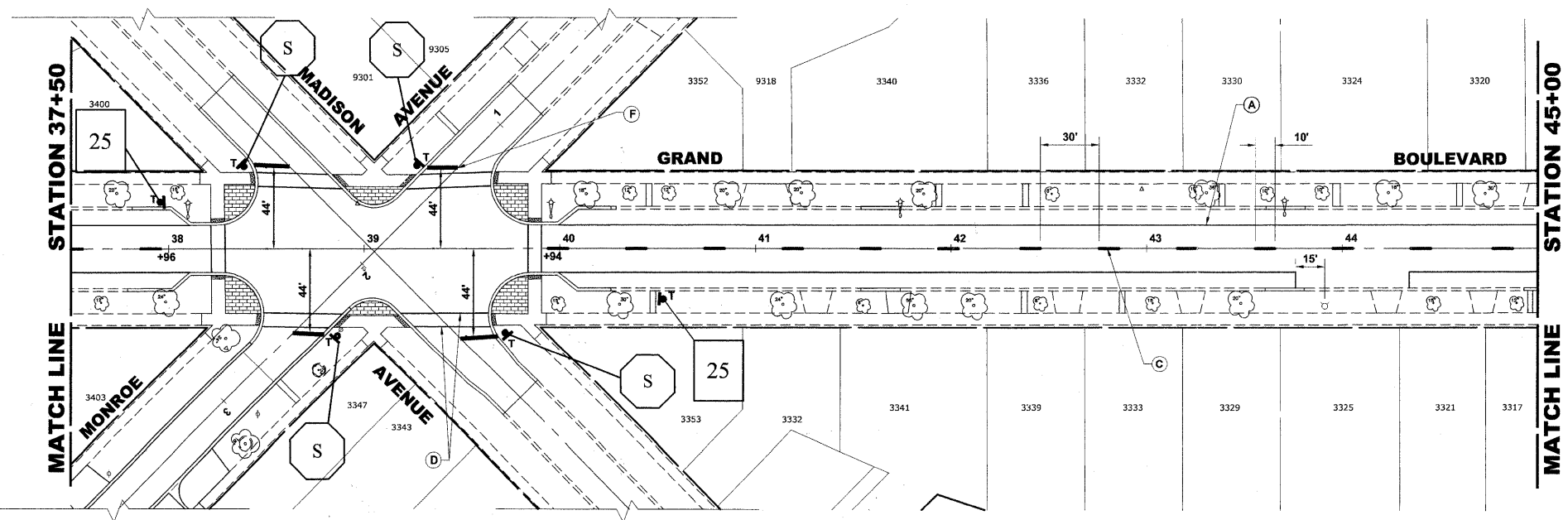
NOTE: "2T" SHALL DENOTE TWO (2) TELESCOPING STEEL SIGN SUPPORTS, RESPECTIVELY.

PAVEMENT MARKINGS LEGENDS

| ITEM DESCRIPTION | SYMBOL |
|----------------------------------------------------------------------------------------|--------|
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PARKING LANE LINE, WHITE | A |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", NO PARKING AREA, YELLOW | B |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSS WALK, WHITE | D |
| THERMOPLASTIC PAVEMENT MARKING - LINE 12", SCHOOL CROSSWALK, WHITE | E |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR, WHITE | F |
| THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS, WHITE | G |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE | H |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE | I |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW | J |

SIGNING NOTES

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 TRAFFIC CONTROL AND PROTECTION, SPECIAL)



Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd 40 - Scale.dwg Oct 25, 2011 1:35pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911
 9813 Rosemead Road
 Wheeling, Illinois 60094-2706
 Phone: 708.940.4000
 Fax: 708.940.5212

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

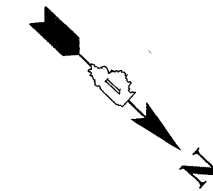
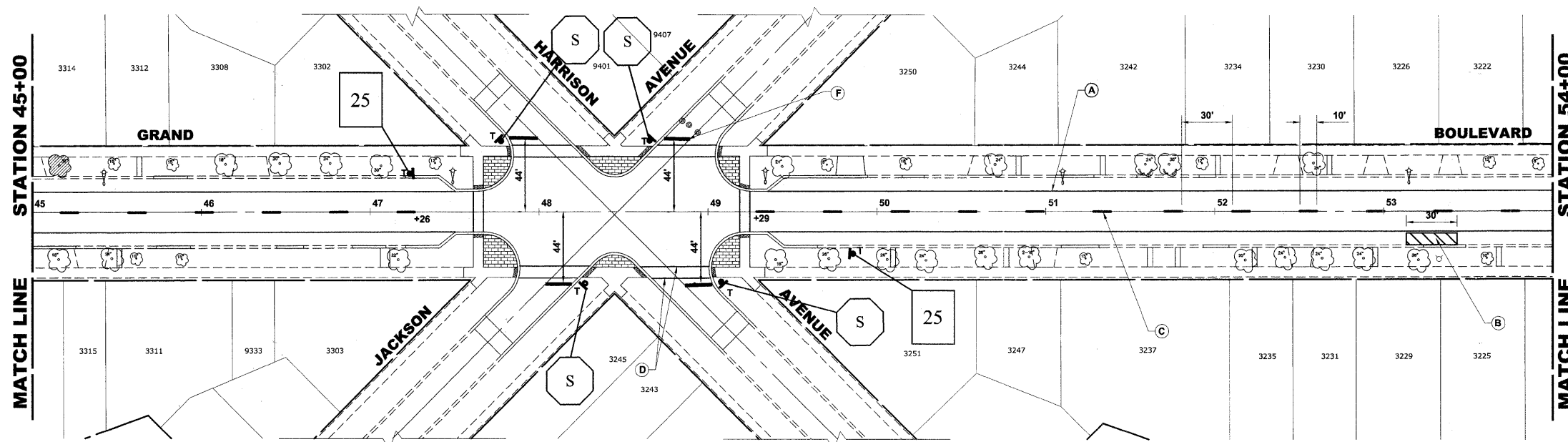
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLAN**

SCALE: 1" = 40'

SHEET NO. 1 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 60 |
| FIELD BOOK NO. | CONTRACT NO. | | | |
| -AERIALS/ILL | 63651 | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |



**SIGNING PLAN
LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION |
|--------|-----------------------------------------------------------|
| T | PROPOSED TRAFFIC SIGN (TELESCOPING STEEL SIGN SUPPORT) |

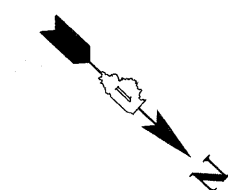
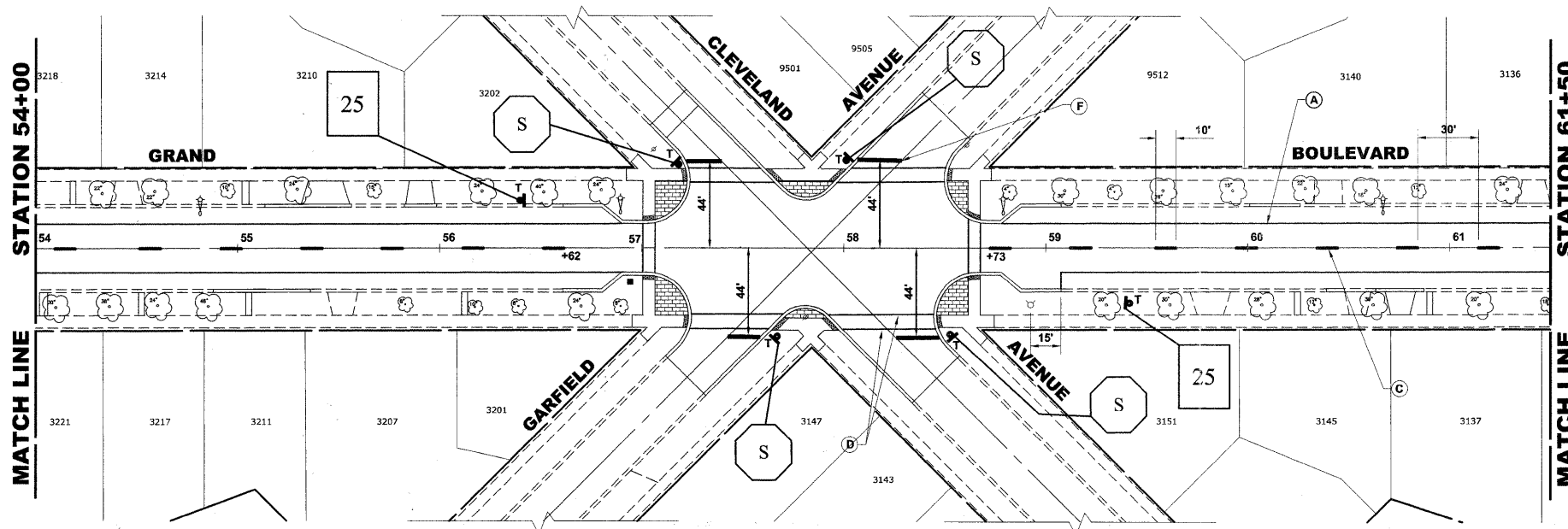
NOTE: "2T" SHALL DENOTE TWO (2) TELESCOPING STEEL SIGN SUPPORTS, RESPECTIVELY.

PAVEMENT MARKINGS LEGENDS

| ITEM DESCRIPTION | SYMBOL |
|----------------------------------------------------------------------------------------|--------|
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PARKING LANE LINE, WHITE | A |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", NO PARKING AREA, YELLOW | B |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSS WALK, WHITE | D |
| THERMOPLASTIC PAVEMENT MARKING - LINE 12", SCHOOL CROSSWALK, WHITE | E |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR, WHITE | F |
| THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS, WHITE | G |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE | H |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE | I |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW | J |

SIGNING NOTES

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 TRAFFIC CONTROL AND PROTECTION, SPECIAL)



Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineering\Grand Blvd 40 - Streets.dwg Oct 24, 2011 1:45pm

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

| | |
|--------------|--------------------|
| USER NAME - | DESIGNED - WOP, JG |
| PLOT SCALE - | DRAWN - MK, DMM |
| PLOT DATE - | CHECKED - WOP, JG |
| | DATE - 10-24-11 |

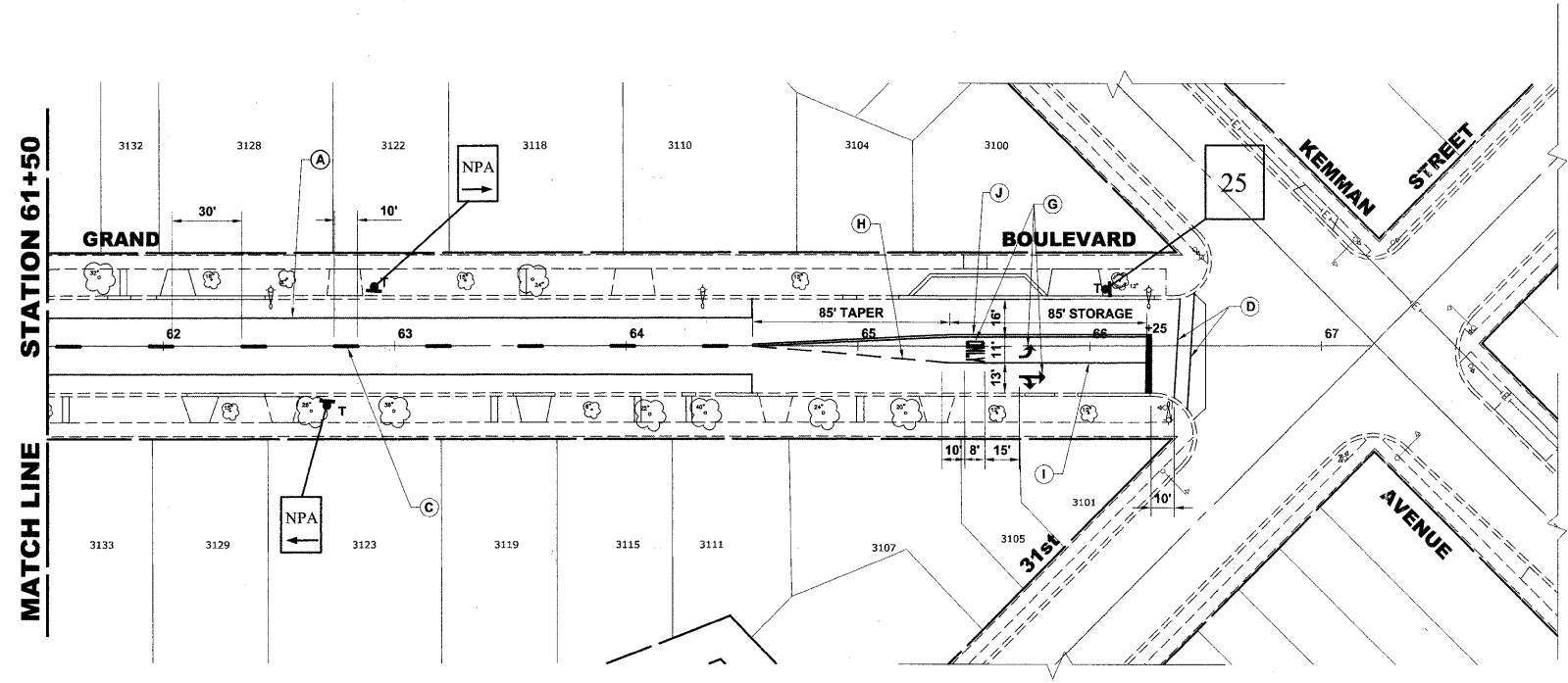
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

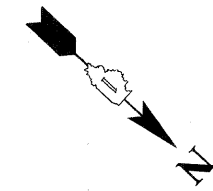
**PAVEMENT MARKING AND
SIGNING PLAN**
SCALE: 1" = 40'
SHEET NO. 2 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------------------------------------------|--------------------|--------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 61 |
| FIELD BOOK NO. -JAERIALS/LL | CONTRACT NO. 63651 | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



STATION 61+50
MATCH LINE



PAVEMENT MARKINGS LEGENDS

| ITEM DESCRIPTION | SYMBOL |
|----------------------------------------------------------------------------------------|--------|
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PARKING LANE LINE, WHITE | A |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", NO PARKING AREA, YELLOW | B |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSS WALK, WHITE | D |
| THERMOPLASTIC PAVEMENT MARKING - LINE 12", SCHOOL CROSSWALK, WHITE | E |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR, WHITE | F |
| THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS, WHITE | G |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE | H |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE | I |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW | J |

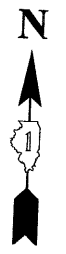
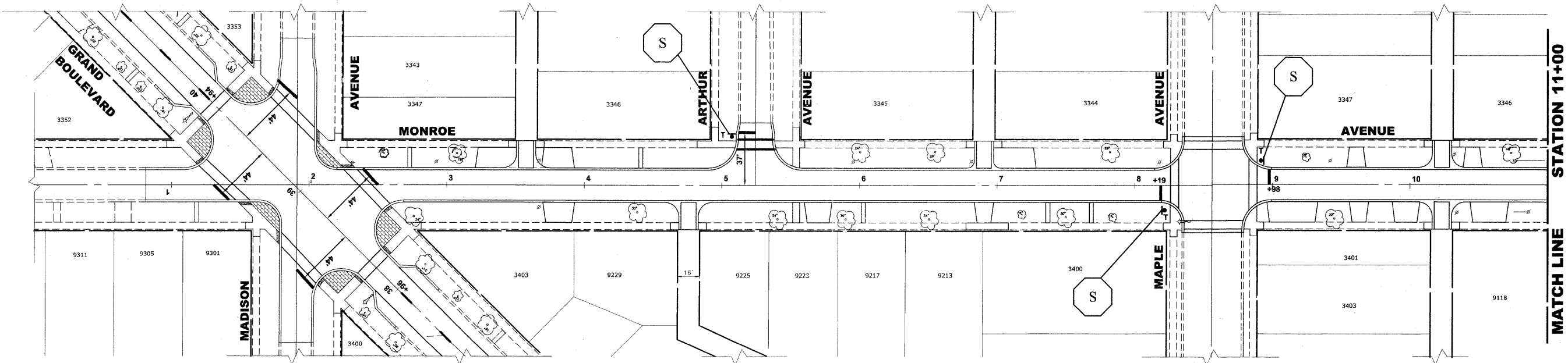
SIGNING NOTES

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 TRAFFIC CONTROL AND PROTECTION, SPECIAL)

**SIGNING PLAN
LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION |
|--------|-----------------------------------------------------------|
| T | PROPOSED TRAFFIC SIGN (TELESCOPING STEEL SIGN SUPPORT) |

NOTE: "2T" SHALL DENOTE TWO (2) TELESCOPING STEEL SIGN SUPPORTS, RESPECTIVELY.



Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\Grand Blvd 40_Signing.dwg Oct 25, 2011 1:50pm



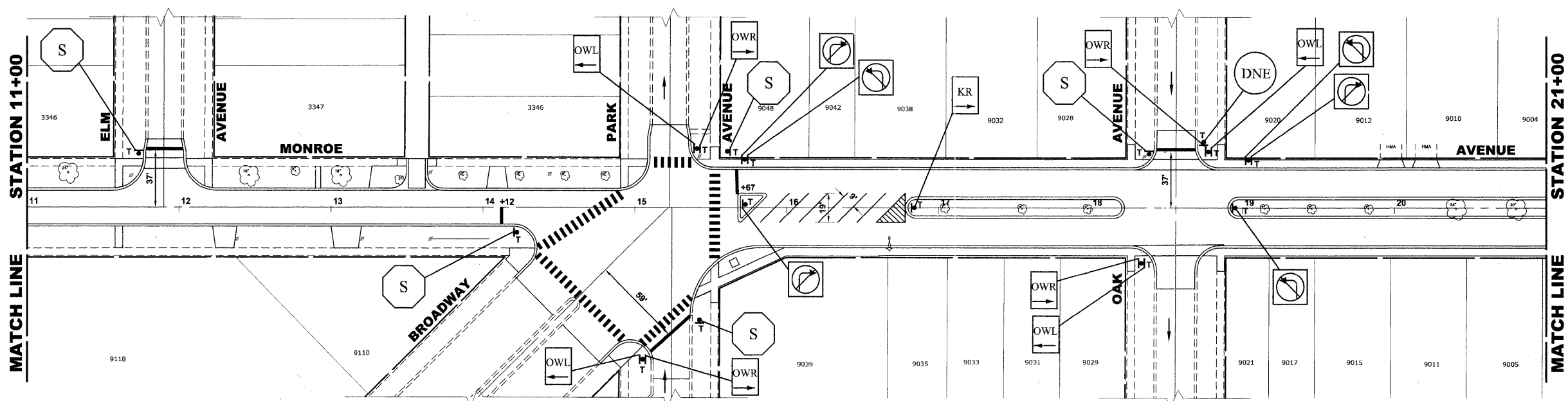
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| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLAN**

SCALE: 1" = 40'
SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 62 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

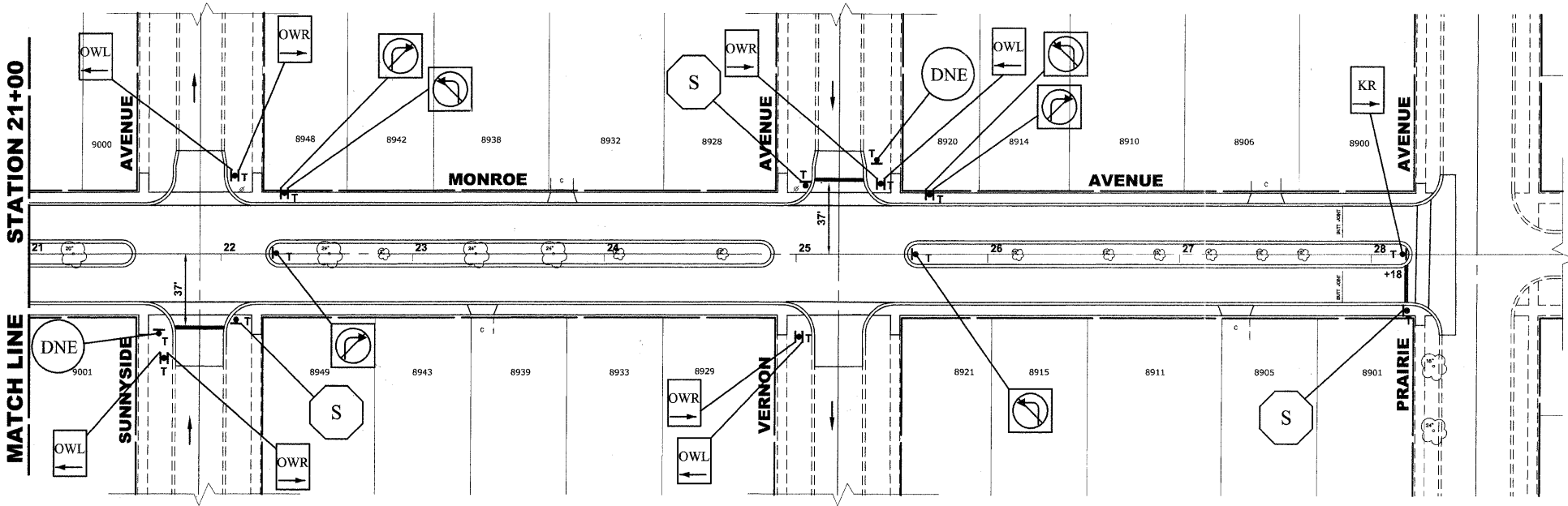


SIGNING NOTES

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 TRAFFIC CONTROL AND PROTECTION, SPECIAL)

**SIGNING PLAN
LEGEND OF SYMBOLS**

| SYMBOL | DESCRIPTION |
|--------|--------------------------------------------------------------------------------|
| T | PROPOSED TRAFFIC SIGN (TELESCOPING STEEL SIGN SUPPORT) |
| 2T | NOTE: "2T" SHALL DENOTE TWO (2) TELESCOPING STEEL SIGN SUPPORTS, RESPECTIVELY. |



PAVEMENT MARKINGS LEGENDS

| ITEM DESCRIPTION | SYMBOL |
|----------------------------------------------------------------------------------------|--------|
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PARKING LANE LINE, WHITE | A |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", NO PARKING AREA, YELLOW | B |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE SKIP DASH, YELLOW | C |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSS WALK, WHITE | D |
| THERMOPLASTIC PAVEMENT MARKING - LINE 12", SCHOOL CROSSWALK, WHITE | E |
| THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR, WHITE | F |
| THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS, WHITE | G |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE | H |
| THERMOPLASTIC PAVEMENT MARKING - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE | I |
| THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW | J |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design_Engineering\Grand Blvd 40_Schedule.dwg Oct 26, 2011 11:40am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

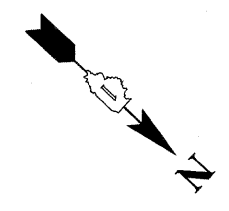
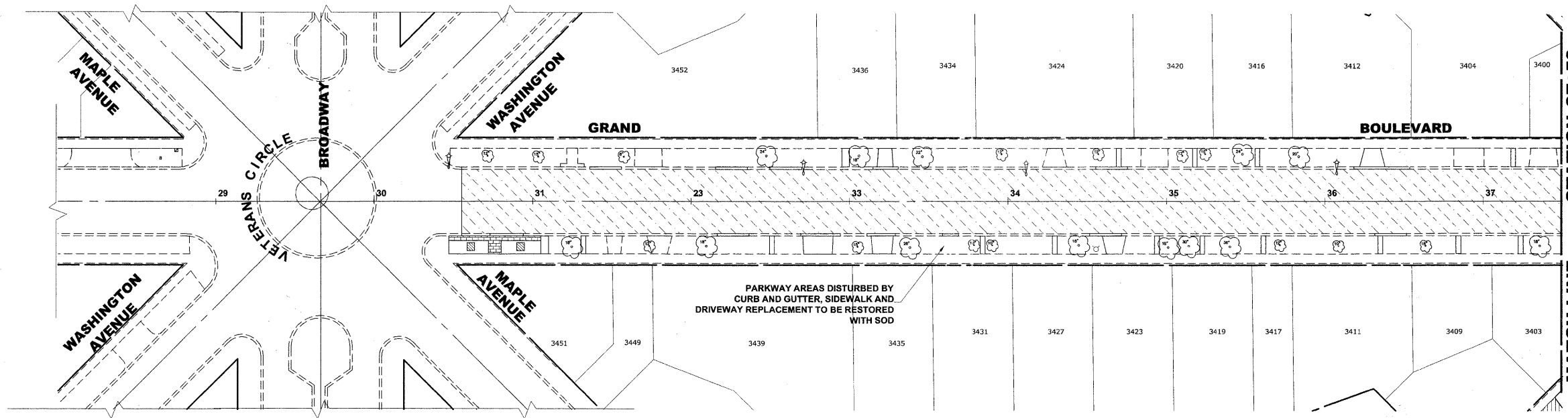
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLAN**

SCALE: 1" = 40'
 SHEET NO. 4 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|--------------------------------|------------------------|------------------------------|-----------------|--------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 63 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |



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.

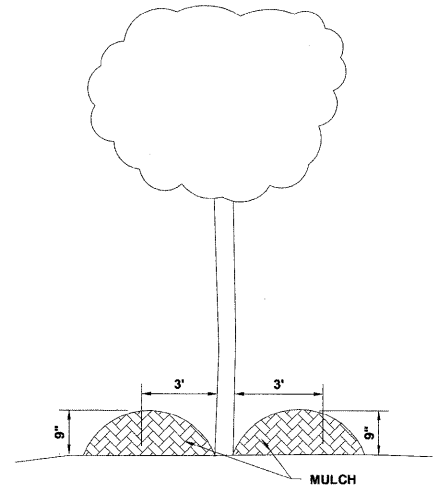
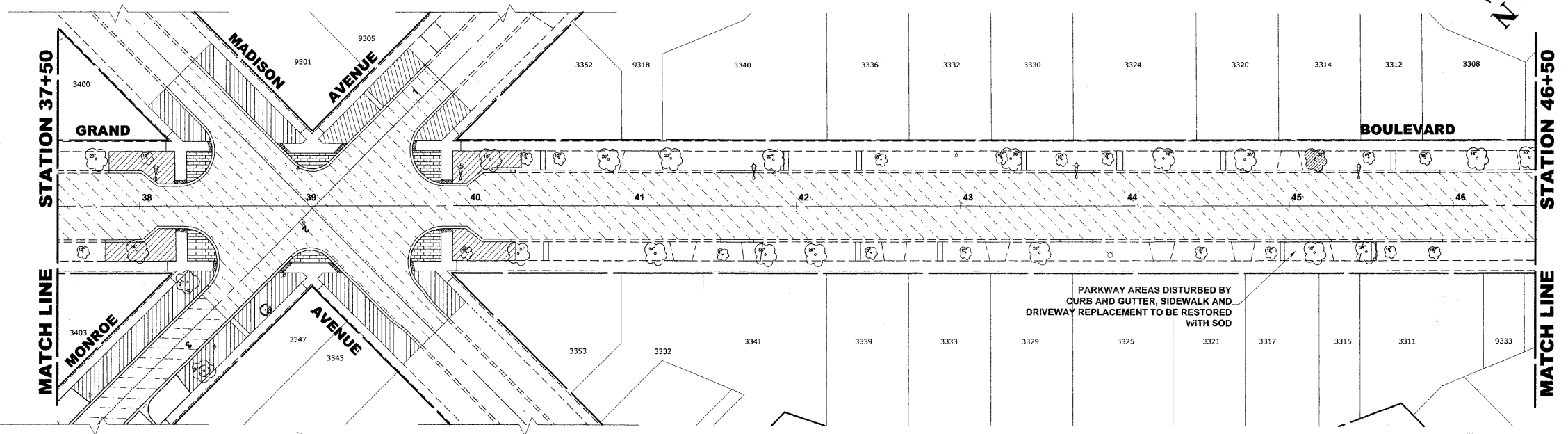
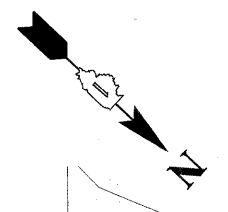
MULCH:
 MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.

LEGEND OF SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| | PROPOSED HOT-MIX ASPHALT AREA |
| | PROPOSED CONCRETE AREA |
| | PROPOSED SODDED PARKWAY |
| | PROPOSED DECORATIVE BRICK SIDEWALK |
| | PROPOSED BIOSWALE |

| TREE REPLACEMENT | | | |
|-------------------------|-----------------------------|------------|----------|
| COMMON NAME | SCIENTIFIC NAME | SIZE | QUANTITY |
| ARISTOCRAT CALLERY PEAR | PYRUS CALLERYANA ARISTOCRAT | 3" CALIPER | 3 |

NOTE: ALL TREES BALLED AND BURLAPPED



TREE MULCH DETAIL

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd 40_Schedule.dwg Oct. 24, 2011 1:48pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9033 Riverwood Road
 Westchester, Illinois 60154-1700
 Phone: 708/965-6100
 Fax: 708/965-1212

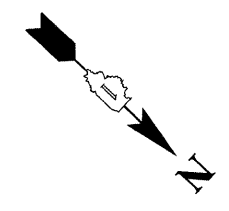
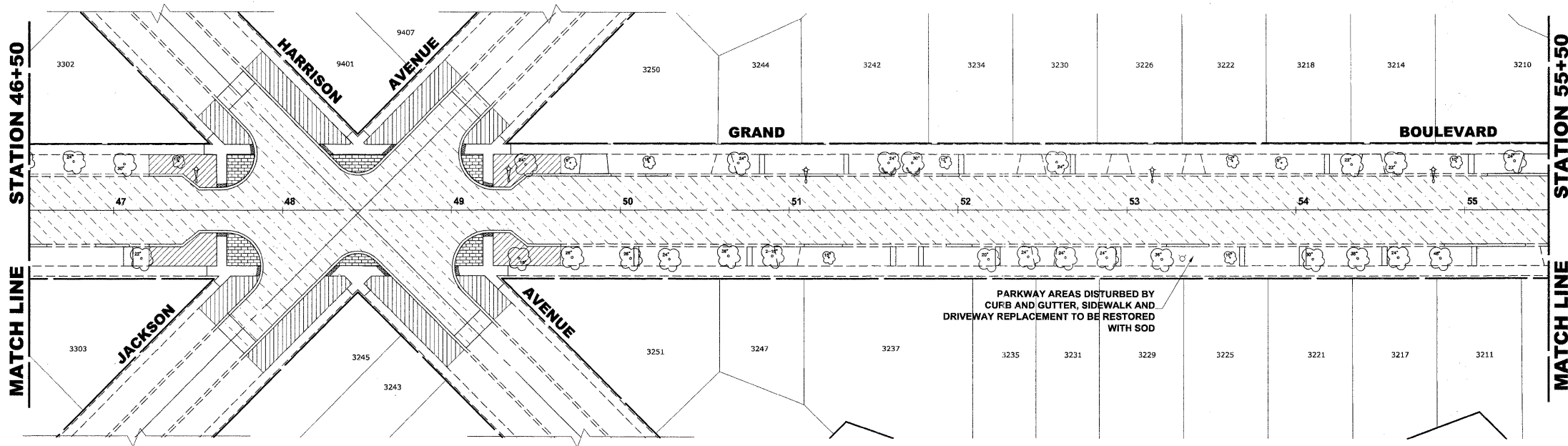
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|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT & LANDSCAPING PLAN

SCALE: 1" = 40'
 SHEET NO. 1 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 64 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |



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.

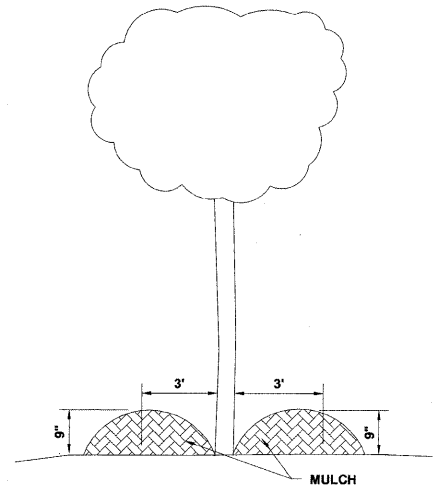
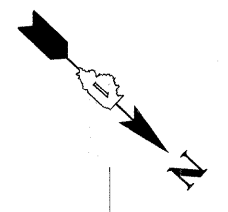
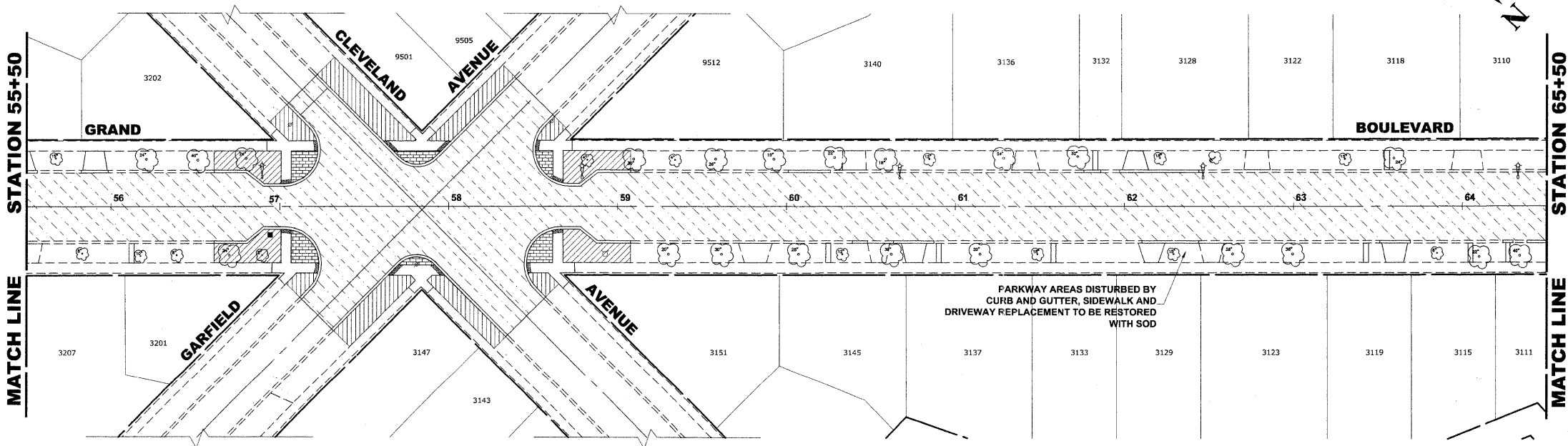
MULCH:
 MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.

LEGEND OF SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| | PROPOSED HOT-MIX ASPHALT AREA |
| | PROPOSED CONCRETE AREA |
| | PROPOSED SODDED PARKWAY |
| | PROPOSED DECORATIVE BRICK SIDEWALK |
| | PROPOSED BIOSWALE |

| TREE REPLACEMENT | | | |
|-------------------------|-----------------------------|------------|----------|
| COMMON NAME | SCIENTIFIC NAME | SIZE | QUANTITY |
| ARISTOCRAT CALLERY PEAR | PYRUS CALLERYANA ARISTOCRAT | 3" CALIPER | 3 |

NOTE: ALL TREES BALLED AND BURLAPPED



Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd 40 - Scales.dwg Oct 24, 2011 1:48pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9573 Riverwood Road
 Wheeling, Illinois 60094-1700
 Phone: 708-965-0300
 Fax: 708-965-1212

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

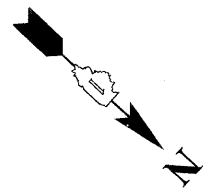
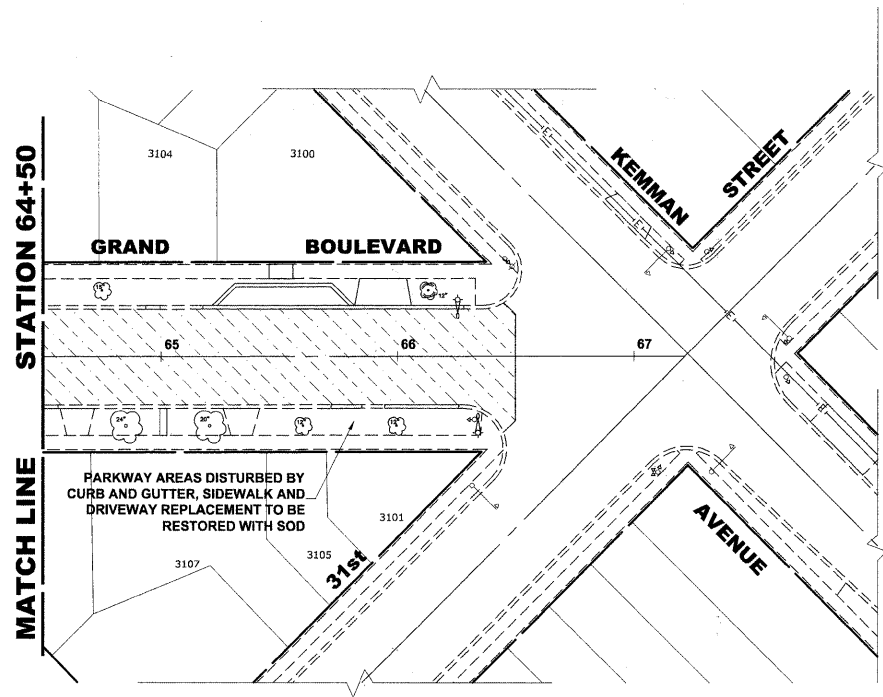
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT & LANDSCAPING PLAN

SCALE: 1" = 40'
 SHEET NO. 2 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 65 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



LEGEND OF SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| | PROPOSED HOT-MIX ASPHALT AREA |
| | PROPOSED CONCRETE AREA |
| | PROPOSED SODDED PARKWAY |
| | PROPOSED DECORATIVE BRICK SIDEWALK |
| | PROPOSED BIOSWALE |

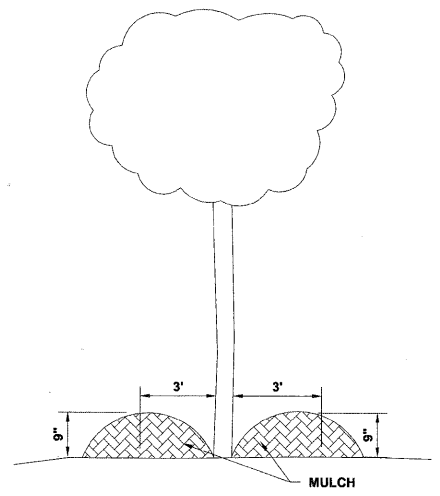
LANDSCAPING NOTES

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 SEEDED 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.

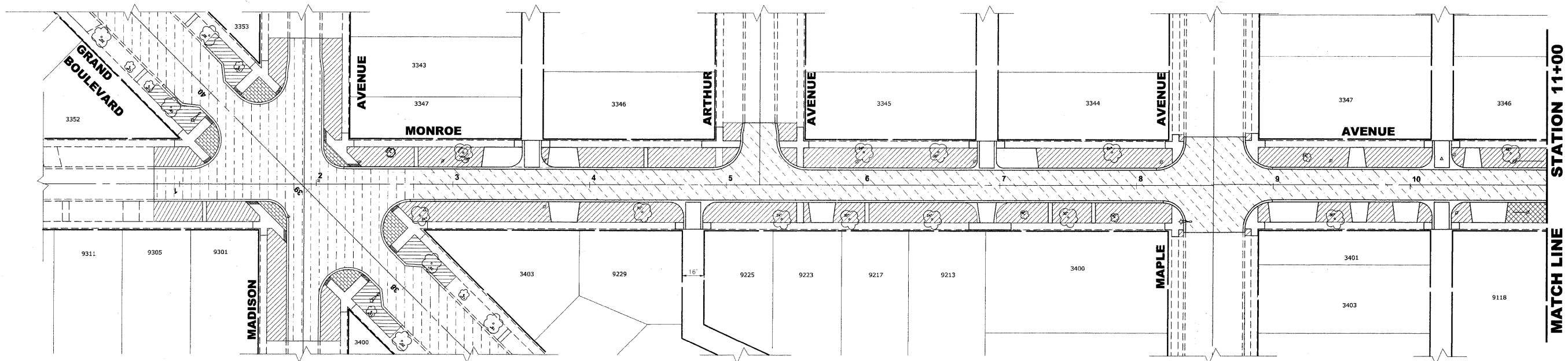
MULCH:
 MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.



TREE MULCH DETAIL

| TREE REPLACEMENT | | | |
|-------------------------|-----------------------------|------------|----------|
| COMMON NAME | SCIENTIFIC NAME | SIZE | QUANTITY |
| ARISTOCRAT CALLERY PEAR | PYRUS CALLERYANA ARISTOCRAT | 3" CALIPER | 3 |

NOTE: ALL TREES BALLED AND BURLAPPED



Drawing file: W:\Projects\12509232 - Grand Blvd. Design_Engineer\Grand Blvd 40_Scotta.dwg Oct. 24, 2011 1:48pm



| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

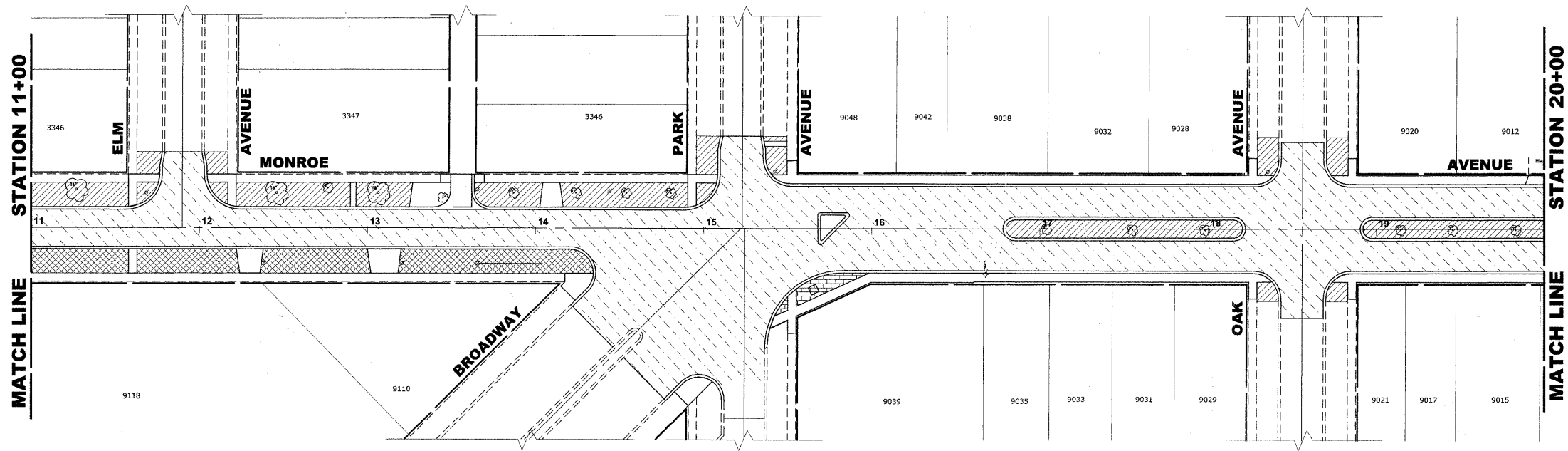
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT AND LANDSCAPING PLAN

SCALE: 1" = 40' SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 66 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



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.

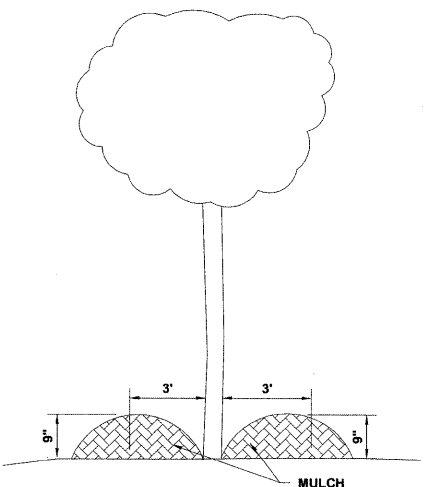
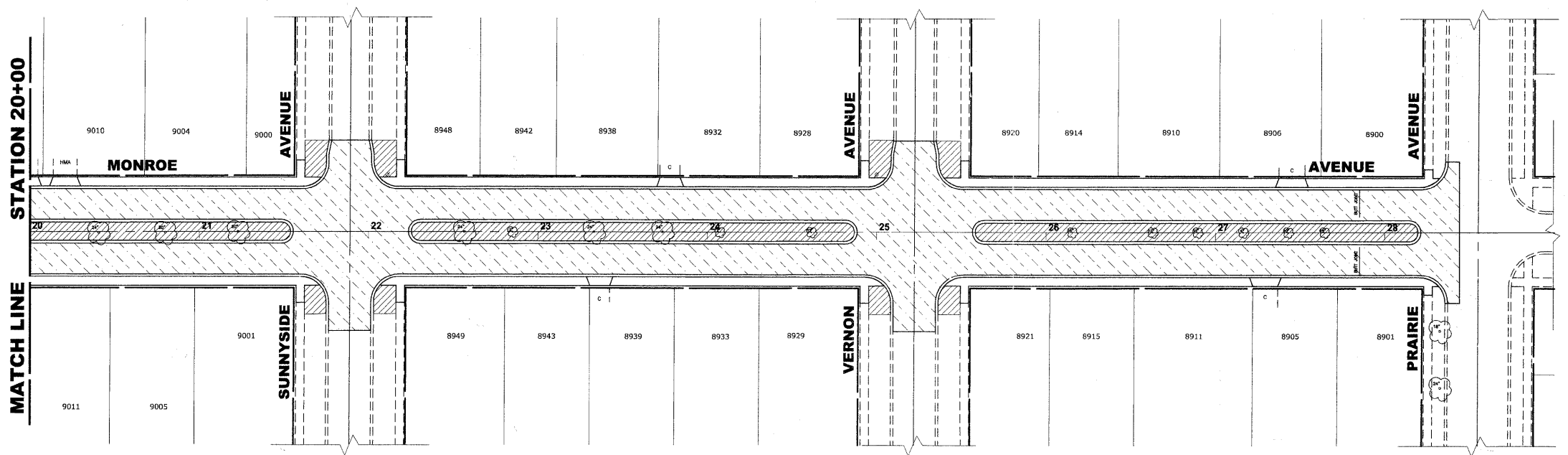
MULCH:
 MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED.

| TREE REPLACEMENT | | | |
|-------------------------|-----------------------------|------------|----------|
| COMMON NAME | SCIENTIFIC NAME | SIZE | QUANTITY |
| ARISTOCRAT CALLERY PEAR | PYRUS CALLERYANA ARISTOCRAT | 3" CALIPER | 3 |

NOTE: ALL TREES BALLED AND BURLAPPED

LEGEND OF SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| | PROPOSED HOT-MIX ASPHALT AREA |
| | PROPOSED CONCRETE AREA |
| | PROPOSED SODDED PARKWAY |
| | PROPOSED DECORATIVE BRICK SIDEWALK |
| | PROPOSED BIOSWALE |



TREE MULCH DETAIL

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd 40 - Streets.dwg Oct. 24, 2011 1:48pm



9513 Research Blvd
 Waukegan, Illinois 60087-3786
 Phone: 708.945.4300
 Fax: 708.945.5202

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT AND LANDSCAPING PLAN

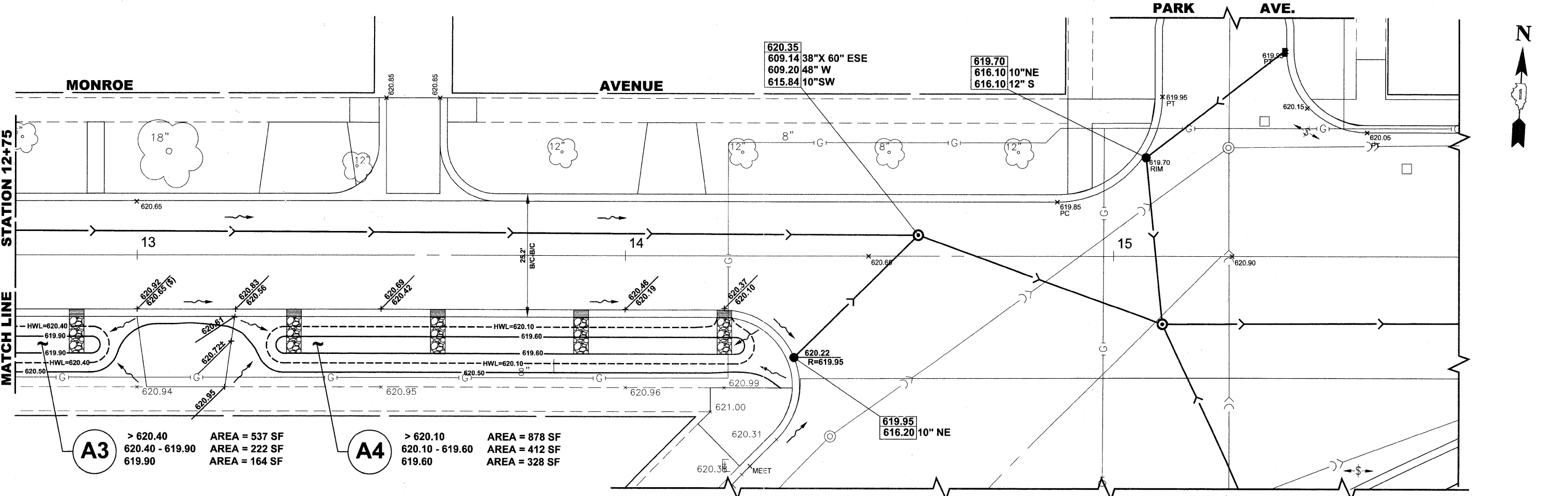
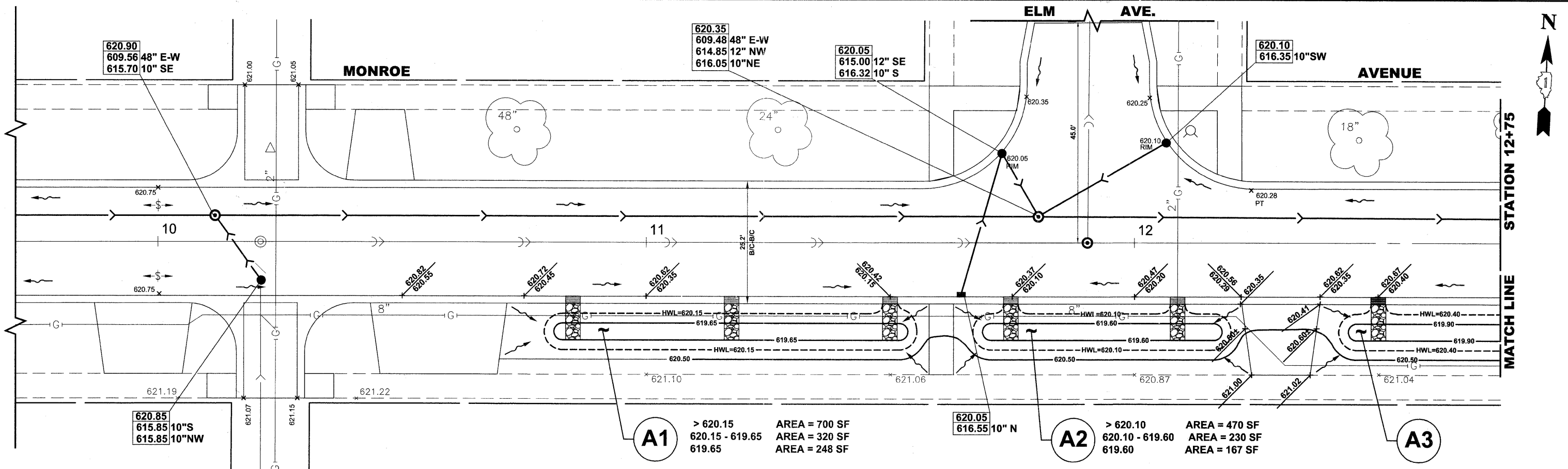
SCALE: 1" = 40'

SHEET NO. 4 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|------------------------------|------------------------|---------------------------------------|-----------------|--------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 67 |
| FIELD BOOK NO. -/AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\Grand Blvd\green.dwg Oct. 24, 2011 - 2:31pm



HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

Living Waters CONSULTANTS

| | | | |
|------------|----------|-----------|--|
| DESIGNED - | WOP, JG | REVISED - | |
| DRAWN - | MK, DMM | REVISED - | |
| CHECKED - | WOP, JG | REVISED - | |
| DATE - | 10-24-11 | REVISED - | |

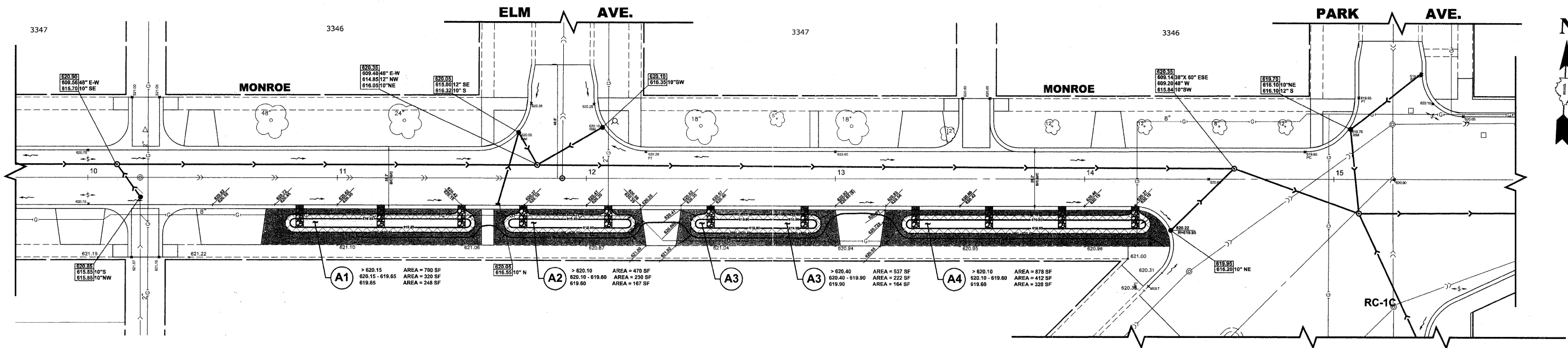
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
BIOSWALE PLACEMENT PLAN**

SCALE: 1"=10'
SHEET NO. 1 OF 3 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 68 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201



NATIVE PLANT PLUG SPECIES LISTS



A



B



C

A. BIOSWALE - BOTTOM NATIVE PLANT PLUGS LIST

(INSTALLED FROM THE BOTTOM OF THE BIOSWALE (0.00 FT) TO MAX. 0.20 FT VERTICAL ABOVE THE BOTTOM ELEVATION)

| SCIENTIFIC NAME | COMMON NAME | NUMBER |
|------------------------|-------------------------|--------|
| ACORUS CALAMUS | SWEET FLAG | 45 |
| ASCLEPIAS INCARNATA | MARSH MILKWEED | 91 |
| CAREX EMORYII | RIVERBANK TUSsock SEDGE | 45 |
| CAREX STIPATA | COMMON FOX SEDGE | 45 |
| CAREX VULPINODEA | FOX SEDGE | 91 |
| ELYMUS CANADENSIS | PRAIRIE WILD RYE | 45 |
| ELYMUS VIRGINICUS | VIRGINIA WILD RYE | 136 |
| IRIS VIRGINICA SHREVEI | BLUE FLAG IRIS | 136 |
| JUNCUS TORREYI | TORREY'S RUSH | 45 |
| PANICUM VIRGATUM | SWITCH GRASS | 91 |
| SPARTINA PECTINATA | PRAIRIE CORD GRASS | 91 |
| VERBENA HASTATA | BLUE VERVAIN | 45 |
| | | 906 |

B. BIOSWALE - SIDE SLOPE NATIVE PLANT PLUGS LIST

(INSTALLED BETWEEN 0.10 FT VERTICAL ABOVE THE BOTTOM OF THE BIOSWALE EXTENDING TO THE TOP OF THE BIOSWALE SIDE SLOPE APPROX. 0.5 FT VERTICAL).

| SCIENTIFIC NAME | COMMON NAME | NUMBER |
|------------------------|----------------------|--------|
| ASCLEPIAS INCARNATA | MARSH MILKWEED | 42 |
| CAREX VULPINODEA | FOX SEDGE | 42 |
| ECHINACEA PURPUREA | PURPLE CONEFLOWER | 28 |
| ELYMUS CANADENSIS | PRAIRIE WILD RYE | 14 |
| ELYMUS VIRGINICUS | VIRGINIA WILD RYE | 14 |
| LIATRIS PYCNOSTACHYA | PRAIRIE BLAZING STAR | 14 |
| LIATRIS SPICATA | DENSE BLAZING STAR | 14 |
| MONARDA FISTULOSA | WILD BERGAMONT | 14 |
| PANICUM VIRGATUM | SWITCH GRASS | 14 |
| PHYSOSTEGIA VIRGINIANA | OBEDIENT PLANT | 28 |
| RATIBIDA PINNATA | YELLOW CONEFLOWER | 14 |
| SOLIDAGO RIGIDA | STIFF GOLDENROD | 14 |
| SOLIDAGO SPECIOSA | SHOWY GOLDENROD | 14 |
| TRADESCANTIA OHIENSIS | SPIDERWORT | 14 |
| | | 280 |

C. BIOSWALE - UPPER BANK NATIVE PLANT PLUG LIST

(INSTALLED BETWEEN THE TOP OF THE BIOSWALE [APPROX. 0.5 FT VERTICAL ABOVE THE BOTTOM] AND THE OUTSIDE [UPGRADIENT] EDGE OF THE BIOSWALE PLANTING AREA)

| SCIENTIFIC NAME | COMMON NAME | NUMBER |
|-------------------------|--------------------|--------|
| ANDROPOGON SCOPARIUS | LITTLE BLUESTEM | 140 |
| AQUILEGIA CANADENSIS | COLUMBINE | 140 |
| ASCLEPIAS TUBEROSA | BUTTERFLY MILKWEED | 70 |
| ASTER NOVAE-ANGLIAE | NEW ENGLAND ASTER | 140 |
| ECHINACEA PURPUREA | PURPLE CONEFLOWER | 140 |
| ELYMUS CANADENSIS | PRAIRIE WILD RYE | 70 |
| MONARDA FISTULOSA | WILD BERGAMONT | 140 |
| PANICUM VIRGATUM | SWITCH GRASS | 70 |
| RATIBIDA PINNATA | YELLOW CONEFLOWER | 140 |
| SOLIDAGO RIGIDA | STIFF GOLDENROD | 70 |
| SPOROBOLUS HETEROLEPSIS | PRAIRIE DROPSEED | 70 |
| TRADESCANTIA OHIENSIS | SPIDERWORT | 140 |
| ZIZIA AUREA | GOLDEN ALEXANDER | 70 |
| | | 1400 |

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| | |
|--------------------|-----------|
| DESIGNED - WOP, JG | REVISED - |
| DRAWN - MK, DMM | REVISED - |
| CHECKED - WOP, JG | REVISED - |
| DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
BIOSWALE PLACEMENT PLAN**

SCALE: 1"=20'
SHEET NO. 2 OF 3 SHEETS STA. - TO STA. -

| | | | | |
|-----------------------------|---------------------------|---------------------------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 89 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201

BIOSWALE SPECIFICATIONS

1. EROSION BLANKET:

A. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S 75 BN, OR EQUAL. REVIEW INSTALLATION LOCATIONS W/ OWNER'S REPRESENTATIVE. THE BLANKET SHALL BE A MACHINE-PRODUCED 100% BIODEGRADABLE MAT WITH A 100% STRAW FIBER MATRIX WITH A FUNCTIONAL LONGEVITY OF APPROXIMATELY 12 MONTHS. (NOTE: FUNCTIONAL LONGEVITY MAY VARY DEPENDING UPON CLIMATIC CONDITIONS, SOIL, GEOGRAPHIC LOCATION, AND ELEVATION). THE BLANKET SHALL BE OF CONSISTENT THICKNESS WITH THE STRAW EVENLY DISTRIBUTED OVER THE ENTIRE AREA OF THE MAT. THE BLANKET SHALL BE COVERED ON THE TOP SIDE WITH A 100% BIODEGRADABLE WOVEN NATURAL ORGANIC FIBER NETTING. THE NETTING SHALL CONSIST OF MACHINE DIRECTIONAL STRANDS FORMED FROM TWO INTERTWINED YARNS WITH CROSS DIRECTIONAL STRANDS INTERWOVEN THROUGH THE TWISTED MACHINE STRANDS (COMMONLY REFERRED TO AS A LENO WEAVE) TO FORM AN APPROXIMATE 0.50 X 1.00 INCH (1.27 X 2.54 CM) MESH. THE BLANKET SHALL BE SEWN TOGETHER WITH BIODEGRADABLE THREAD ON 1.50 INCH (3.81 CM) CENTERS.

MATERIAL CONTENT

MATRIX 100% STRAW FIBER (0.50 LBS/YD2)
 NETTING ONE SIDE ONLY, LENO WOVEN 100% BIODEGRADABLE NATURAL ORGANIC FIBER (9.30 LBS/1,000 FT2 APPROXIMATE WEIGHT) THREAD BIODEGRADABLE

PHYSICAL SPECIFICATIONS (PER ROLL)

WIDTH 6.67 FT ± 5%
 LENGTH 108.00 FT ± 5%
 WEIGHT 46.40 LBS ± 10%
 AREA 80 YD2 66.89 M2
 STITCH SPACING 1.50 INCHES

B. INSTALL BLANKET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

2. TOLERANCE FOR FINISHED ELEVATIONS

A. THE ENGINEER RESERVES THE RIGHT TO REVIEW CONTRACTOR'S RESULTS OF CONTRACTOR'S SURVEY INCLUDING VERIFICATION OF COMPLETION OF THE FOLLOWING

STAGES: SUBGRADE COMPLETION, INSTALLATION OF FILTER FABRIC WRAP AROUND COARSE AGGREGATE, AMENDED TOPSOIL GRADE COMPLETION, SPOT ELEVATIONS, OR OTHER ITEMS UPON THE REQUEST OF THE OWNER. CONTRACTOR VERIFICATION OF GRADES SHALL AT A MINIMUM OCCUR AFTER COMPLETION OF MASS GRADING AND AFTER INSTALLATION OF TOPSOIL.

B. ALL SPOT ELEVATIONS FOR BIOSWALES SHALL BE CONSTRUCTED TO WITHIN +/- 0.07 FT OF THE ELEVATION INDICATED ON THE PLANS

3. TOLERANCE FOR RUTS AND DIRT CLUMPS

A. BIOSWALES SHALL BE CONSTRUCTED TO BE FREE FROM RUTS THAT ARE 0.1 FT OR LARGER, AND SHALL CONTAIN LESS THAN 10% DIRT CLUMPS THAT ARE 2-INCH OR LARGER.

4. BIOSWALE NATIVE PLANT PLUGS

A. DESCRIPTION:

NATIVE PLANT PLUGS SHALL BE USED TO ESTABLISH GROUND COVER VEGETATION IN THE RESTORATION AREAS. NATIVE PLANT PLUGS SHALL CONSIST OF 2-INCH POTTED PLANTS, UNLESS STATED OTHERWISE.

B. MATERIALS:

1. CONTAINER MATERIALS SHALL BE HEALTHY (SPECIES SPECIFIED BELOW) WITH AN IDOT APPROVED ORIGIN AS CLOSE AS POSSIBLE TO PROJECT SITE. PLANT MATERIALS FROM BEYOND A 150-MILE RADIUS OF THE PROJECT SITE SHALL BE APPROVED IN WRITING PRIOR TO USE BY THE OWNER.
2. SUBSTITUTIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF OWNER.

C. QUALITY CONTROL:

1. WATERING SHALL OCCUR AS NECESSARY TO MAINTAIN VIGOR DURING ON-SITE STORAGE, DURING INSTALLATION, AND AFTER INSTALLATION. MATERIALS SHALL BE STORED IN A SHADED AREA IF AMBIENT TEMPERATURES EXCEED 80 DEGREES F.
2. DELIVERY: ACCEPT DELIVERY AFTER PREPARATIONS FOR PLANTINGS HAVE BEEN COMPLETED AND PLANT IMMEDIATELY.
3. TEMPORARY STORAGE: IF PLANTING IS DELAYED MORE THAN 4 HOURS AFTER DELIVERY, MAKE PROVISIONS FOR PROTECTING PLANTS FROM WEATHER, AND WATERING AS NEEDED.
4. ALL PLANT MATERIAL, INCLUDING COLLECTED STOCK, MUST SHOW

WITH THE STATE AND FEDERAL LAWS WITH RESPECT TO INSPECTION FOR PLANT DISEASES AND INSECT INFESTATIONS.

5. EACH SPECIES SHALL BE HANDLED AND PACKED IN THE MANNER APPROVED FOR THAT PLANT, HAVING REGARD FOR THE SOIL AND CLIMATE CONDITIONS AT THE TIME AND PLACE OF DIGGING OR CUTTING AND DELIVERY, AND TO THE TIME THAT WILL BE CONSUMED WHILE IN TRANSIT OR DELIVERY. ALL PRECAUTIONS THAT ARE CUSTOMARY IN GOOD TRADE PRACTICES SHALL BE TAKEN TO INSURE THE ARRIVAL OF PLANTS IN GOOD CONDITION. INSPECTION SHALL OCCUR FOR PLANT DISEASES AND INSECT INFESTATIONS.

5. INSTALLATIONS

- A. BIOSWALE - BOTTOM NATIVE PLANT PLUGS SHALL BE INSTALLED FROM THE BOTTOM OF THE BIOSWALE (0.00 FT) TO MAX. 0.20 FT VERTICAL ABOVE THE BOTTOM ELEVATION
- B. BIOSWALE - SIDE SLOPE NATIVE PLANT PLUGS SHALL BE INSTALLED BETWEEN 0.10 FT VERTICAL ABOVE THE BOTTOM OF THE BIOSWALE EXTENDING TO THE TOP OF THE BIOSWALE SIDE SLOPE APPROX. 0.5 FT VERTICAL.
- C. BIOSWALE - UPPER BANK NATIVE PLANT PLUGS SHALL BE INSTALLED BETWEEN THE TOP OF THE BIOSWALE (APPROX. 0.5 FT VERTICAL ABOVE THE BOTTOM) AND THE OUTSIDE (UPGRADIENT) EDGE OF THE BIOSWALE PLANTING AREA.
- D. PLANTING DATES FOR NATIVE PLANT PLUGS: MAY 1 THROUGH JULY 15, UNLESS APPROVED OTHERWISE BY OWNER. NOTE: IN YEAR 1, WATERING WILL BE REQUIRED BY THE CONTRACTOR TO ENSURE SURVIVAL AND VIABILITY OF THE NATIVE PLANT PLUGS.
- E. INSTALLATION: INSTALL NATIVE PLANT PLUGS IN LOCATIONS SPECIFIED BY ENGINEER AND PER DETAILS THROUGH EROSION BLANKET BY INSERTING PLANTING BAR (2 IN. DIA.) INTO SLOPES. THE HOLES WILL BE OF SUFFICIENT SIZE TO PERMIT PLACING THE PLANT WITHOUT BENDING THE SHOOTS. PLACE THE PLANTS IN THE HOLE FLUSH WITH THE GROUND SURFACE. HOLES SHALL BE FILLED WITH SOIL AND PRESSED FIRM UP TO THE GROUND SURFACE. ALL SPACES WITHIN ONE FOOT RADIUS OF THE PLANTING WILL BE FILLED WITH SOIL AND COMPACTED.

6. 3-YEAR VEGETATIVE PERFORMANCE STANDARDS FOR NATIVE PLANT PLUGS

- A. WITHIN 24 HOURS AFTER GRADING IS COMPLETED, BIOSWALE SLOPES SHALL BE STABILIZED BY EROSION BLANKET AS INDICATED ON DETAILS AND SPECIFICATIONS.
- B. WITHIN AT LEAST THREE (3) MONTHS OF PLANTING (WITHIN THE GROWING SEASON OF APRIL THROUGH OCTOBER), AT LEAST 90% OF THE PLANTED AREA SOIL SURFACE WILL BE VEGETATED AND NO AREA WILL HAVE MORE THAN ONE (1) YARD SQUARE DEVOID OF VEGETATIVE COVER.
- C. INVASIVE PLANT SPECIES SHALL NOT EXCEED 10% OF THE VEGETATIVE COVERAGE AT ANY TIME [SPECIES INCLUDE BUT NOT LIMITED TO GARLIC MUSTARD (ALLIARIA OFFICINALIS), REED CANARYGRASS (PHALARIS ARUNDINACEA), PURPLE LOOSESTRIFE (LYTHRUM SALICARIA), CANADA THISTLE (CIRSIMUM ARVENSE), GIANT RAGWEED (AMBROSIA TRIFIDA), COMMON RAGWEED (AMBROSIA ARTEMISIIFOLIA), ANNUAL FLEABANE (ERIGERON ANNUUS), HONEYSUCKLE (LONICERA TATARICA), COMMON BUCKTHORN (RHAMNUS CATHARTICA), YELLOW CLOVER, PURPLE CLOVER, WHITE CLOVER, (MELILOTUS SPP.).
- D. PLANT PLUG (SURVIVORSHIP SHALL REMAIN AT 80% OR HIGHER THROUGHOUT THE PROJECT SITE THROUGH THE END OF THE VEGETATIVE PERFORMANCE TIME PERIOD. CONTRACTOR AND ENGINEER SHALL REVIEW PLANT SURVIVORSHIP BETWEEN MAY 15 AND SEPTEMBER 15. CONTRACTOR SHALL INSTALL ADDITIONAL PLANTS TO ENSURE A MINIMUM 80% SURVIVORSHIP AT NO ADDITIONAL COST. ANY IRRIGATION OR OTHER MAINTENANCE ACTIVITIES PERFORMED TO MEET SURVIVORSHIP SHALL BE PERFORMED AT A COST INCLUDED IN THE INSTALLATION OF NATIVE PLANT PLUGS.

7. NATIVE PLANT SPECIES MAINTENANCE

A. CONTRACTOR RETAIN QUALIFIED NATIVE PLANT IDENTIFICATION & MAINTENANCE PERSONNEL WITH STATE OF ILLINOIS DEPARTMENT OF AGRICULTURE PESTICIDE APPLICATOR OR OPERATOR LICENSURE TO PERFORM NATIVE PLANT MAINTENANCE FOR DURATION DESCRIBED IN CONTRACT FOLLOWING INSTALLATION OF ALL NATIVE PLANT MATERIALS. AREAS TO BE MAINTAINED INCLUDE BIOSWALES, OR OTHER AREAS CONTAINING NATIVE PLANTS OR INVASIVE SPECIES AT THE PROJECT SITE.

A MINIMUM SEVEN (7) ANNUAL WEED CONTROL APPLICATIONS SHALL OCCUR OVER ONE YEAR AFTER THE INSTALLATION OF NATIVE PLANT MATERIALS PER THE FOLLOWING GENERAL SCHEDULE:

- I. APPLICATION # 1 (MAY 20 TO MAY 27).
- II. APPLICATION # 2 (JUNE 7 TO JUNE 14)
- III. APPLICATION # 3 (JUNE 20 TO JUNE 25)
- IV. APPLICATION # 4 (JULY 6 TO JULY 15)
- V. APPLICATION # 5 (JULY 28 TO AUG. 5)
- VI. APPLICATION # 6 (AUG. 20 TO AUG. 30)
- VII. APPLICATION # 7 (SEPT. 5 TO SEPT. 15)

ADDITIONAL MAINTENANCE MAY BE NEEDED TO MEET THE MINIMUM PERFORMANCE REQUIREMENTS AND SHALL OCCUR AT CONTRACTOR'S DISCRETION.

B. CONTRACTOR SHALL CONDUCT SITE INSPECTIONS WITH ENGINEER TO REVIEW WEED CONTROL LOCATIONS. SITE INSPECTIONS SHALL OCCUR BOTH BEFORE AND AFTER WEED CONTROL APPLICATIONS FOR SATISFACTORY PERFORMANCE.

C. EXAMPLE MAINTENANCE PRACTICES MAY INCLUDE WATERING, SPOT-HERBICIDING, HAND REMOVAL, MOWING, OR OTHER NATIVE PLANT MANAGEMENT TECHNIQUES. CONTRACTOR SHALL MAINTAIN NATIVE PLANT MATERIAL AS NECESSARY TO MEET THE MINIMUM PERFORMANCE REQUIREMENTS.

D. WATERING SHALL OCCUR WEEKLY TO MAINTAIN GROWTH AND VIGOR OF LIVE PLANT MATERIALS.

E. THE COST OF NATIVE PLANT MAINTENANCE SHALL BE ITEMIZED FOR 3-YEAR NATIVE PLANT MAINTENANCE.

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HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911
 9511 Riverside Road
 Wheeling, Illinois 60094-1796
 Phone: 708/945-6100
 Fax: 708/945-1272

Living Waters CONSULTANTS

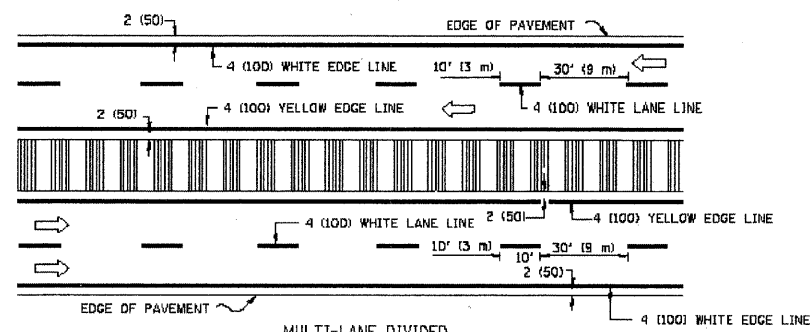
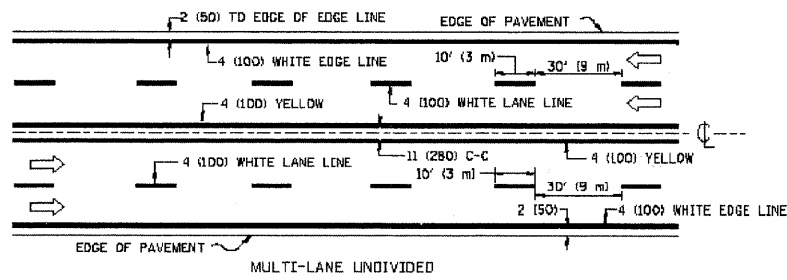
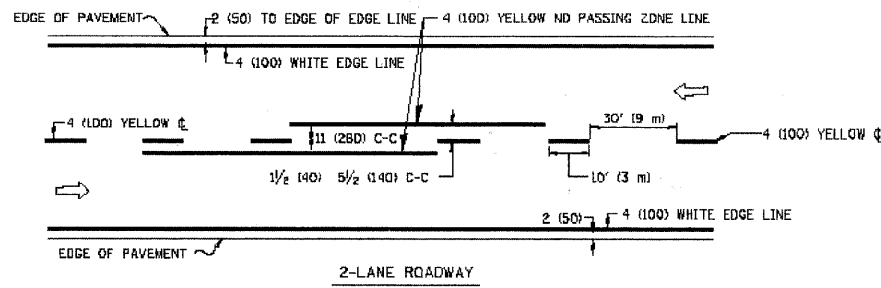
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| DESIGNED - | WOP, JG | REVISED - | |
| DRAWN - | MK, DMM | REVISED - | |
| CHECKED - | WOP, JG | REVISED - | |
| DATE - | 10-24-11 | REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MONROE AVENUE
 BIOSWALE PLACEMENT PLAN**

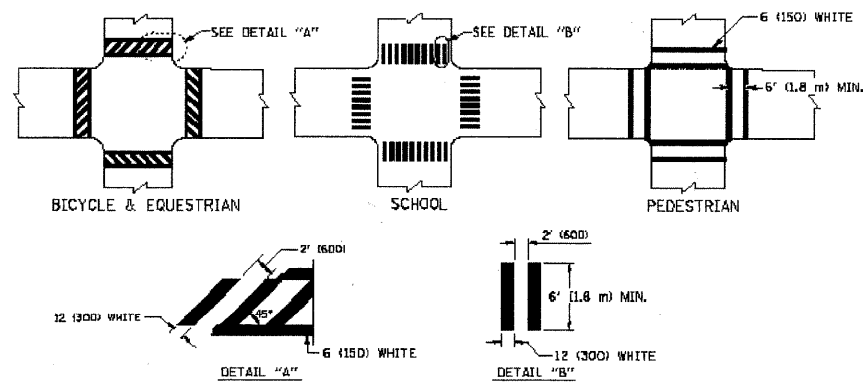
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| | | | | |
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| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1684 | 07-00122-01-PV | COOK | 86 | 70 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

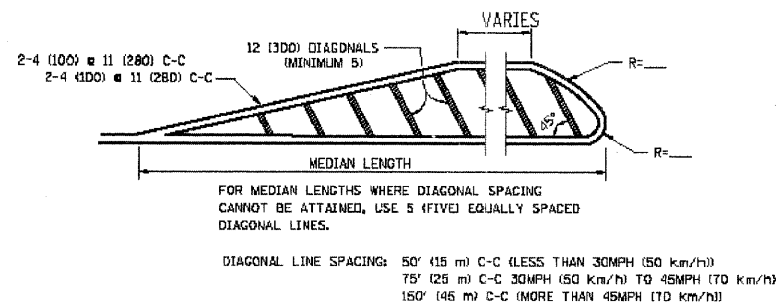
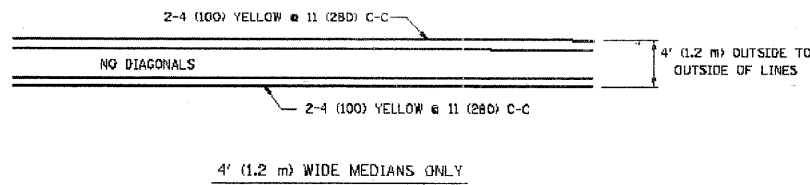


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

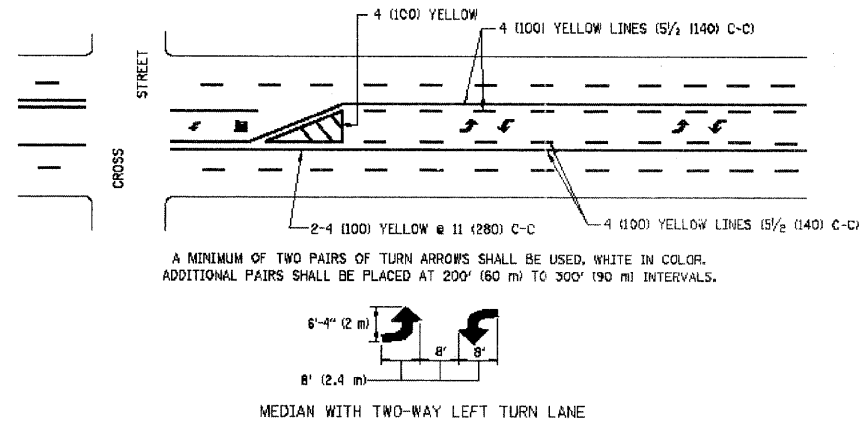
TYPICAL LANE AND EDGE LINE MARKING



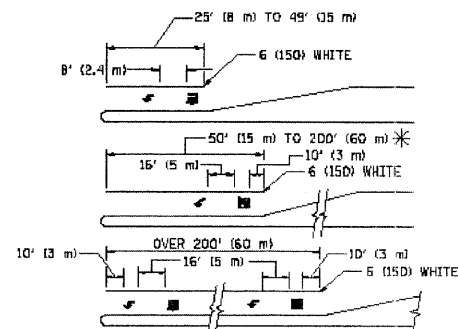
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

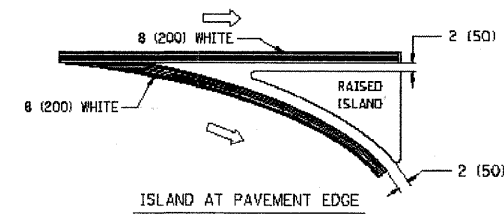
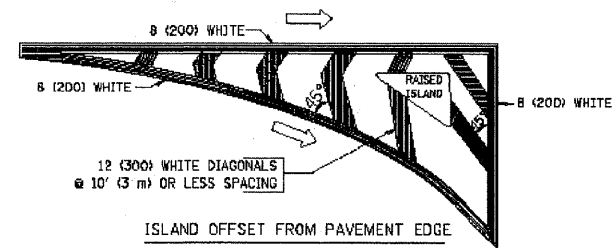


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) □ AREA = 20.6 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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 | 30' (9 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) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 6 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE 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 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 | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 6 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 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° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| CORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES "RR" IS 5' (1.5 m) LETTERS: 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (23 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 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\12509232 - Grand Blvd. Design Engineer\DOT MARKINGS.dwg Oct 25, 2011 - 9:11 am

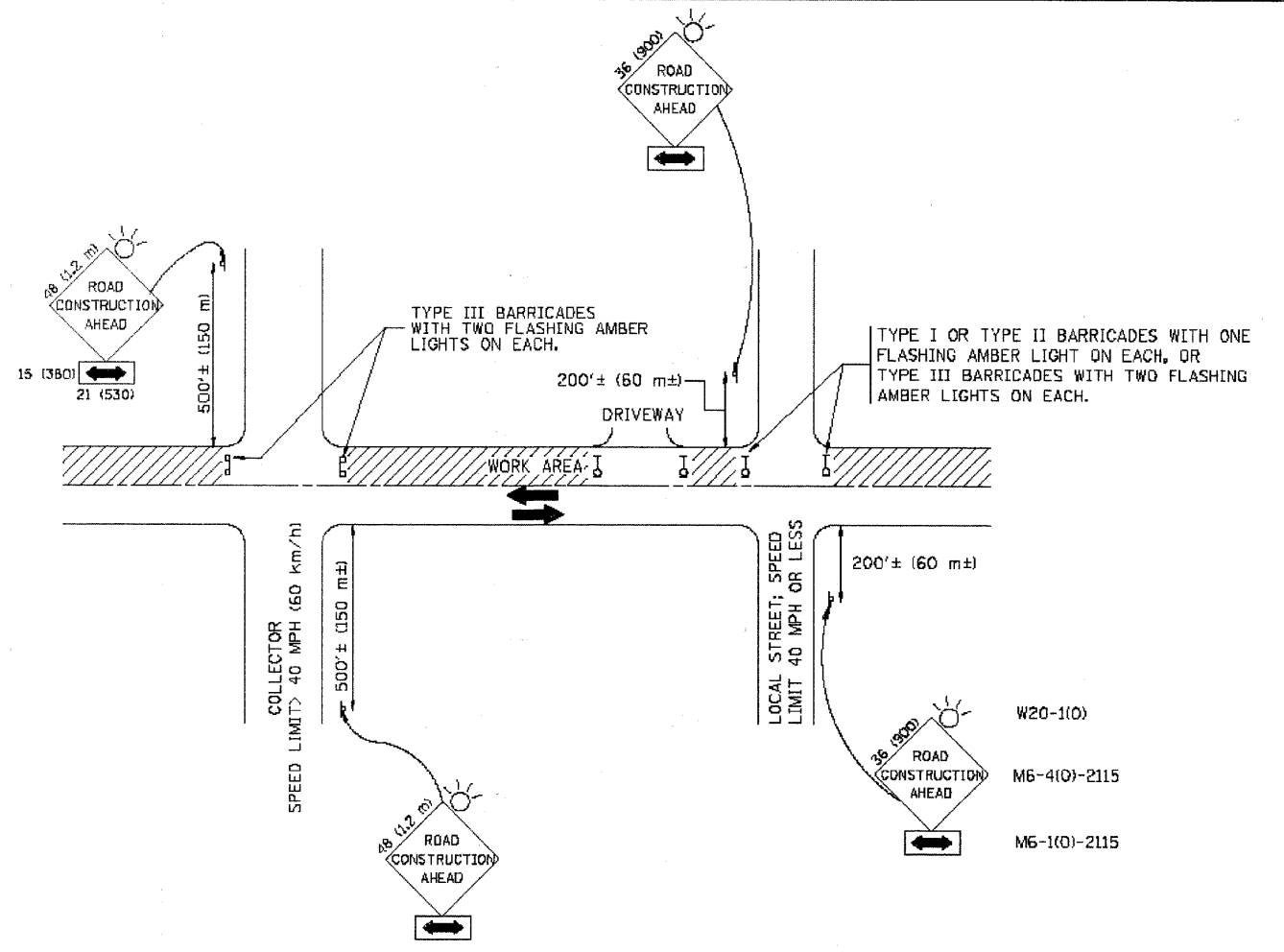
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| or:\pwork\pavdot\drivak.cagn\0108015\to3.dgn | | DRAWN - | REVISED -C. JUCCIUS 09-09-09 |
| PLOT SCALE = 50,000 1" = 100' | | CHECKED - | REVISED - |
| PLOT DATE = 9/9/2009 | | DATE - 03-19-90 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|---------------------------|-------------------------|--------------|--|
| DISTRICT ONE | | | |
| TYPICAL PAVEMENT MARKINGS | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | |

| | | | | |
|-------------------------------------------------------------|----------------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1894 | 07-00122-01-PV | COOK | 86 | 71 |
| TC-13 | | CONTRACT NO. | 63851 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

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 Oct 25, 2011 - 9:10am



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

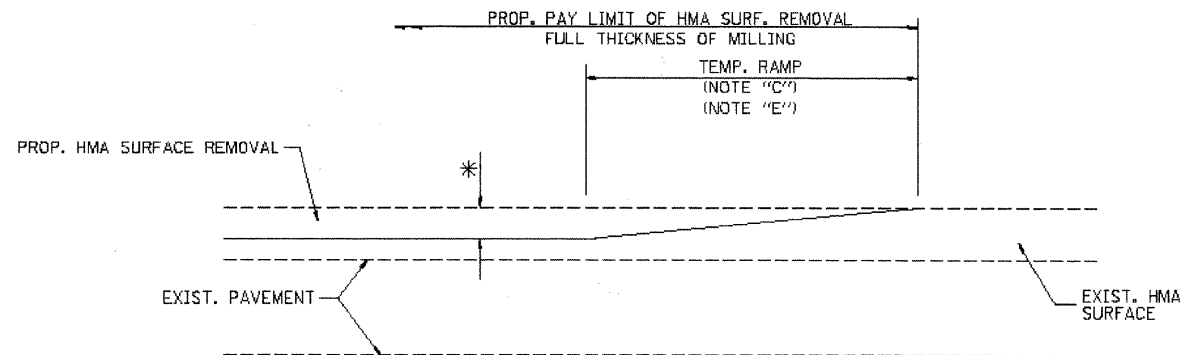
NOTES:

- 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701605 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.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

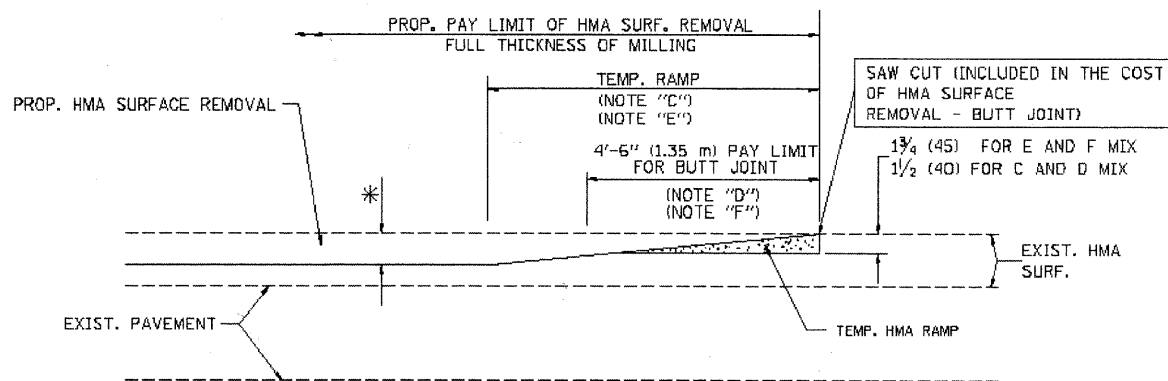
All dimensions are in millimeters (inches) unless otherwise shown.

| | | | | | | | | | | | | |
|----------------------------------------------|------------------------|---------------------------------|------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------|----------|---------------------|---------------------------|----------------|---------------------------------|-----------------|
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| PLOT SCALE = 58,880 ' / IN. | DRAWN - | CHECKED - | REVISED - A. HOUSEH 03-06-96 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | TC-10 | | CONTRACT NO. 63651 | |
| PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 | | | FED. ROAD DIST. NO. 1 | | ILLINOIS | FED. AID PROJECT | M-9003(875) | | E.H.E. PROJECT NO. 125-09-23201 | |



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

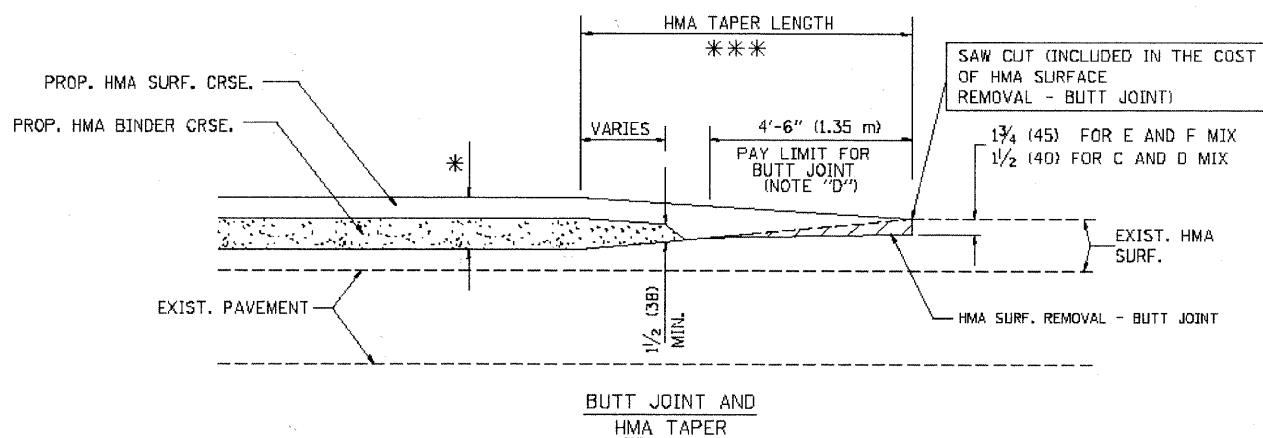
OPTION 1



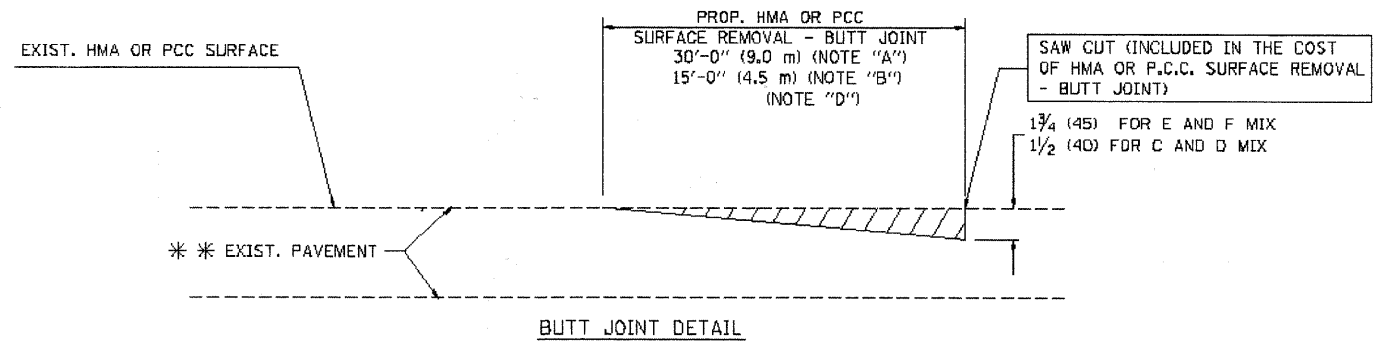
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

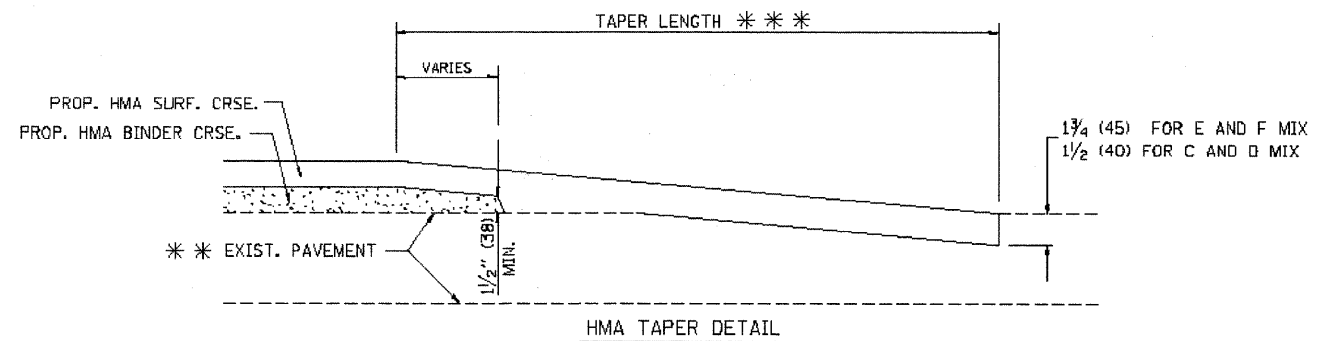
TYPICAL TEMPORARY RAMP



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.

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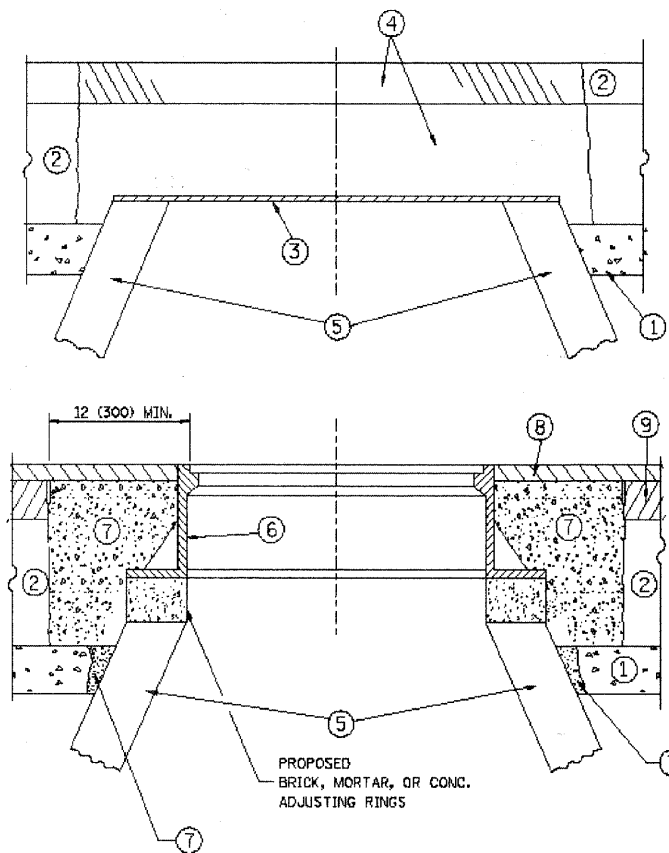
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| USER NAME = geglendot | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94 |
| PLOT SCALE = 50.0000' / IN. | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| PLOT DATE = 1/4/2008 | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | DATE - 06-13-90 | REVISED - R. BORO 01-01-07 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

| | | | | |
|------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-----------------|--------------|
| F.A. RTE. 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 73 |
| SCALE: NONE | | SHEET NO. 1 OF 1 SHEETS | | STA. TO STA. |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-9003(875) CONTRACT NO. 63651 E.H.E. PROJECT NO. 125-09-23201 | | | | |

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CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1% CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1% CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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| | | DRAWN - | REVISED - R. WIEDEMAN 05-14-04 |
| | PLOT SCALE = 1/8" = 1' IN | CHECKED - | REVISED - R. BORO 01-01-07 |
| | PLOT DATE = 3/18/2011 | DATE - 10-25-94 | REVISED - R. BORO 03-09-11 |

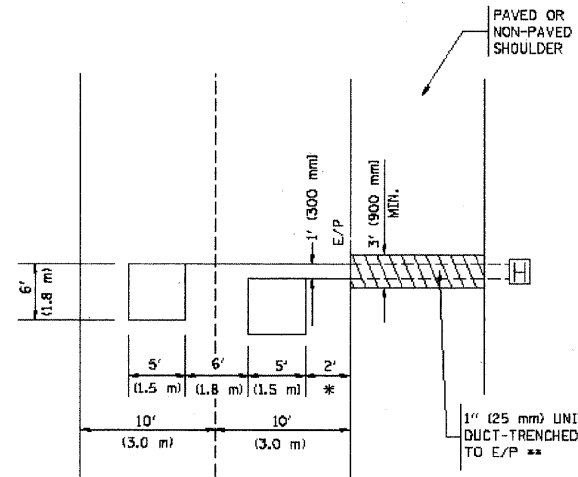
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|----------------------------------------------------------------|-------------------------|
| DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS |

| | | | | |
|---------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1694 | 07-00122-01-PV | COOK | 86 | 74 |
| BD00-03 (BD-8) | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

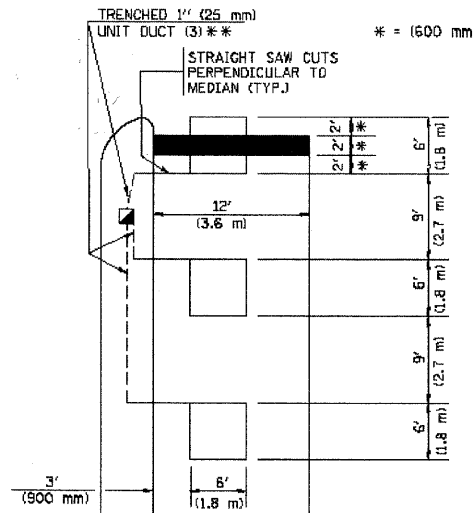


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

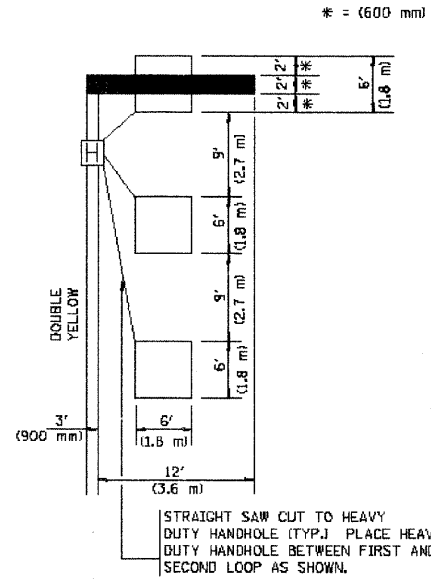
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B1400L TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

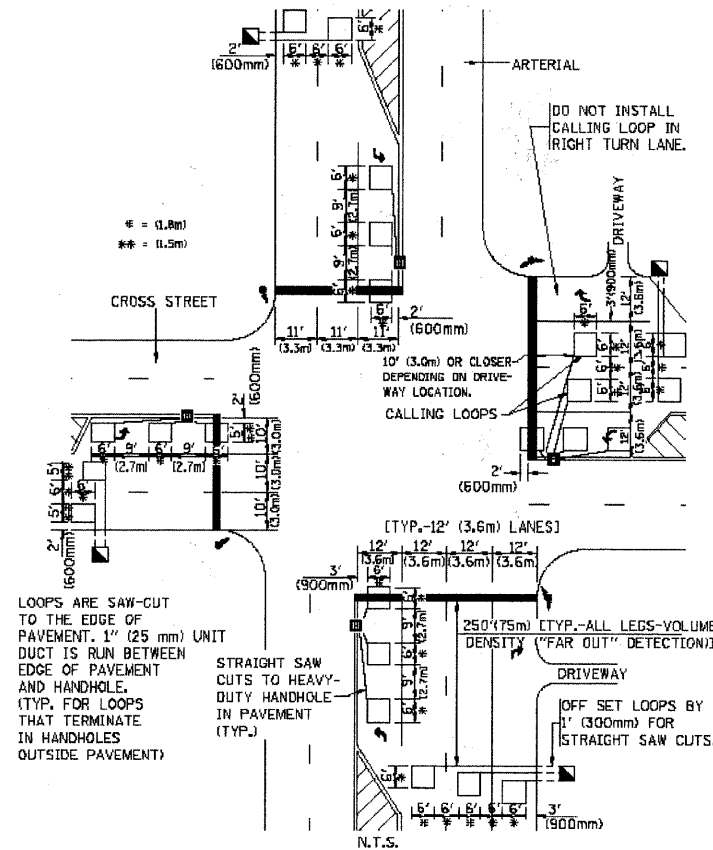
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



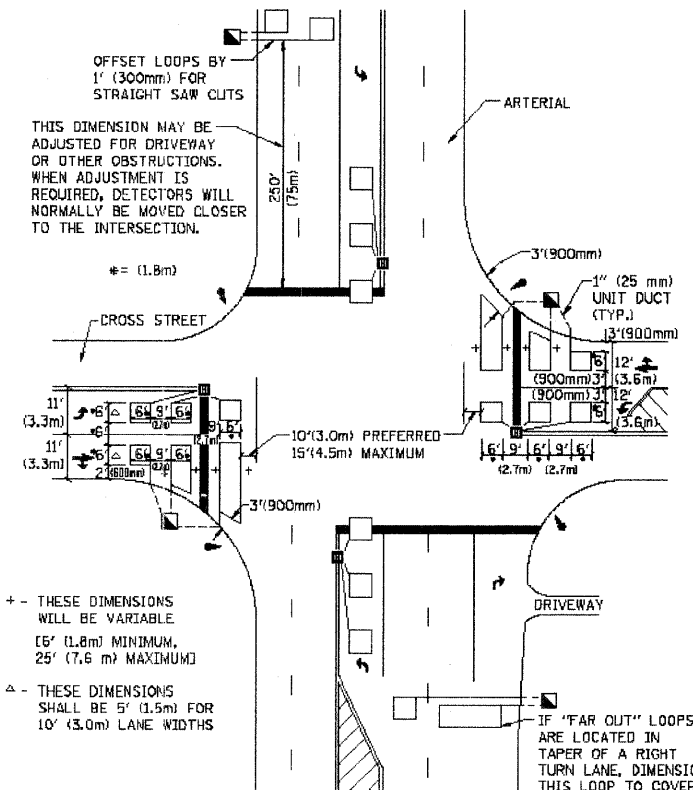
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

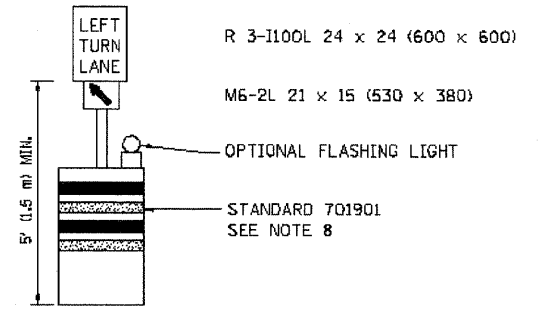
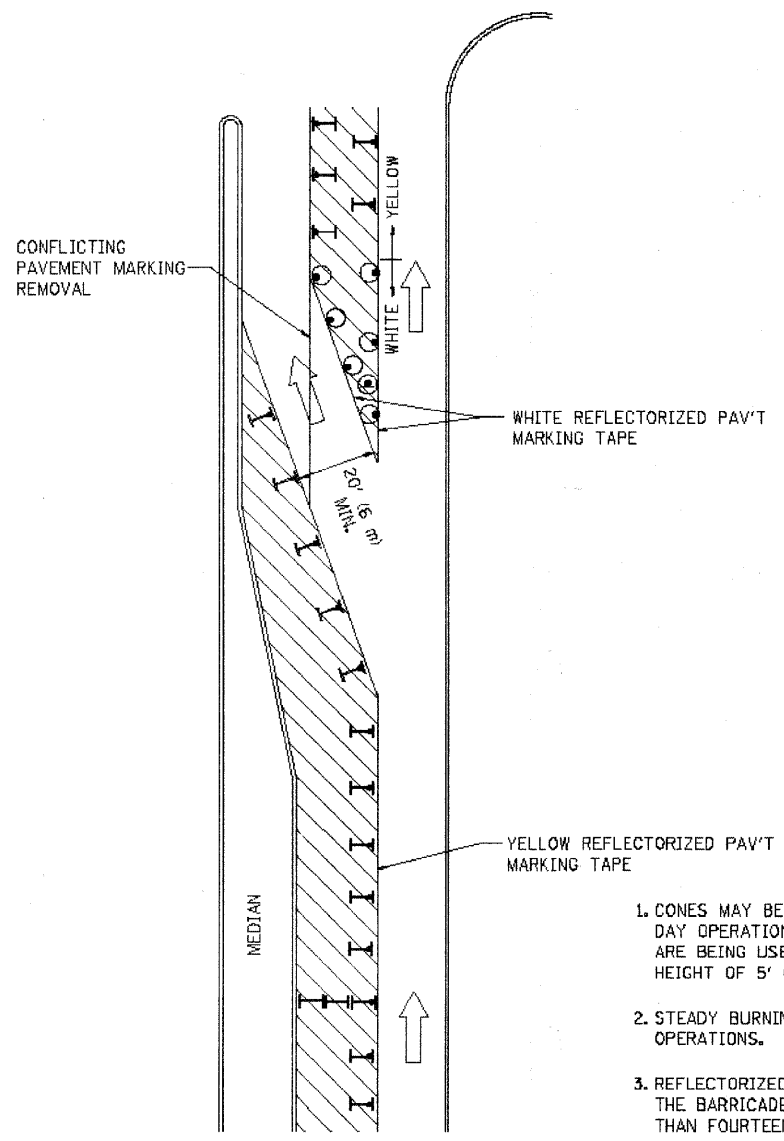
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

| | | | | |
|---------------------------------|----------------|-------------------------|--------------|------------------------------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1694 | 07-00122-01-PV | COOK | 86 | 75 |
| SCALE: NONE | | SHEET NO. 1 OF 1 SHEETS | | STA. TO STA. |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | | FED. AID PROJECT M-9003(875) |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

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GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II 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.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

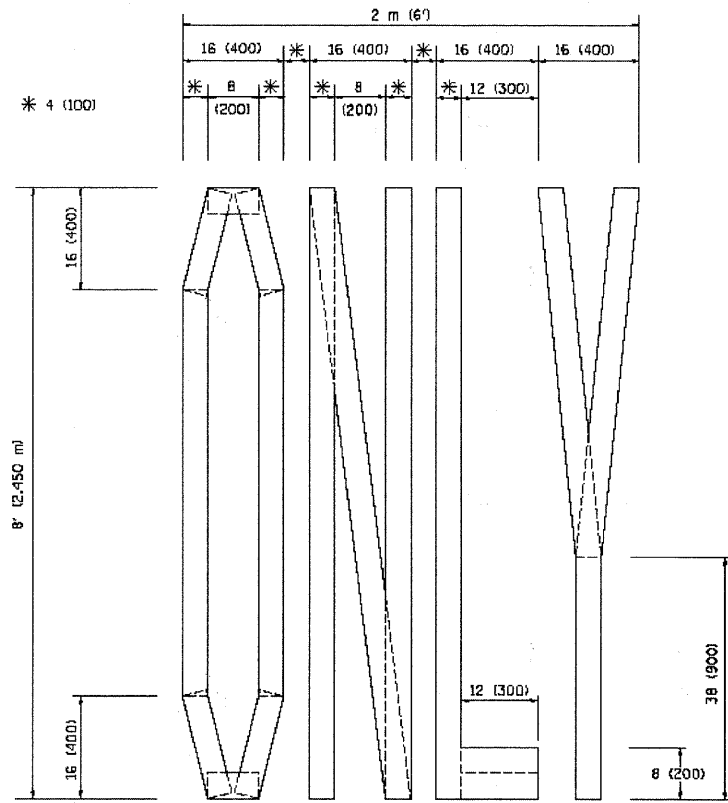
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| or\p\work\PW100\DRIVAKODGN\02100315\14.dgn | | REVISED - A. HOUSEH 11-07-95 | REVISED - |
| PLOT SCALE = 49.9999 / IN | | REVISED - A. HOUSEH 10-12-96 | REVISED - |
| PLOT DATE = 9/14/2009 | | REVISED -T. RAMMACHER 01-06-00 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

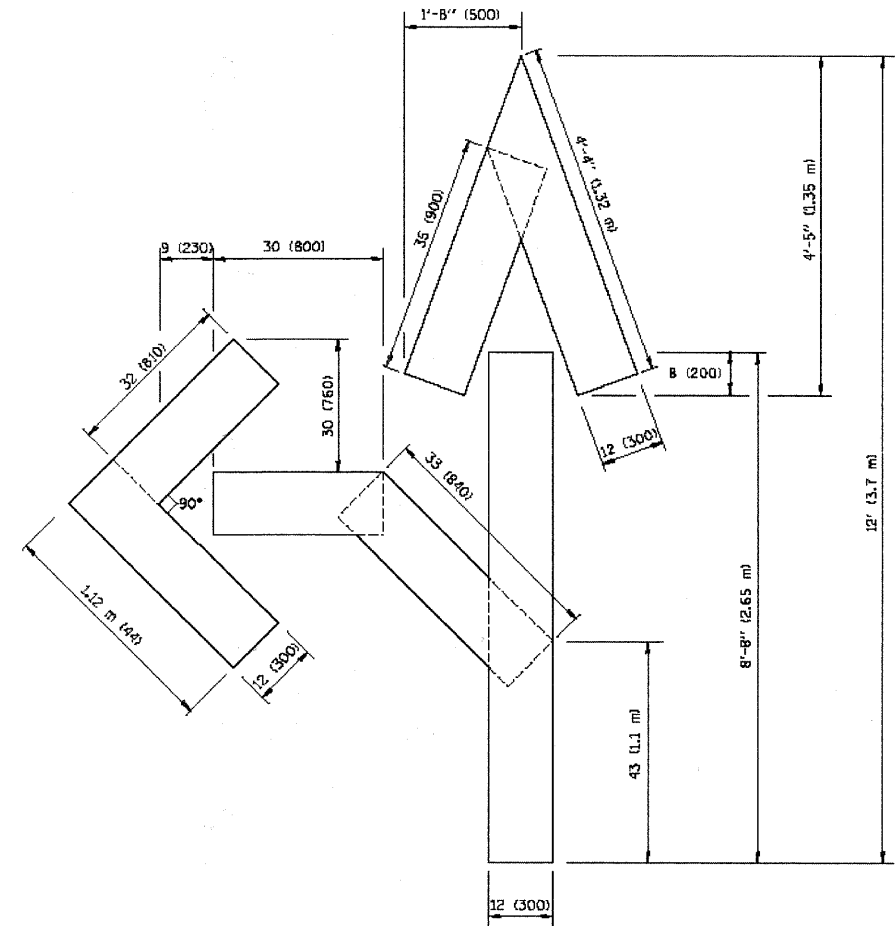
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

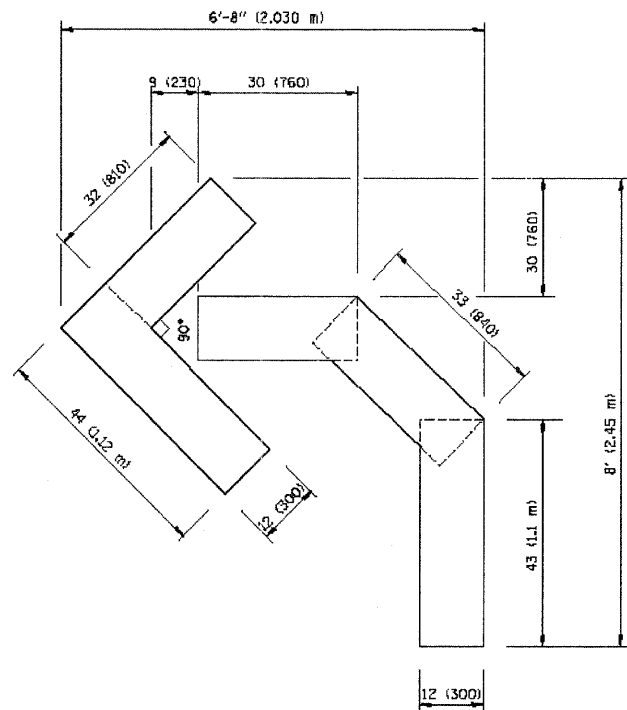
| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| F.A. RTE. * | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1694 | 07-00122-01-PV | COOK | 86 | 75A |
| TC-14 | | CONTRACT NO. 63851 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\DOT MARKINGS.dwg Nov 21, 2011 - 4:08pm

FILE NAME =
 W:\data\tdf\22c34\1a15.dgn

| | | |
|---------------------------|-----------------|--------------------------------|
| USER NAME = gglianoet | DESIGNED - | REVISED -T. RAMMACHER 06-05-96 |
| | DRAWN - | REVISED -T. RAMMACHER 11-04-97 |
| PLOT SCALE = 50.0000 / IN | CHECKED - | REVISED -T. RAMMACHER 03-02-98 |
| PLOT DATE = 1/4/2008 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

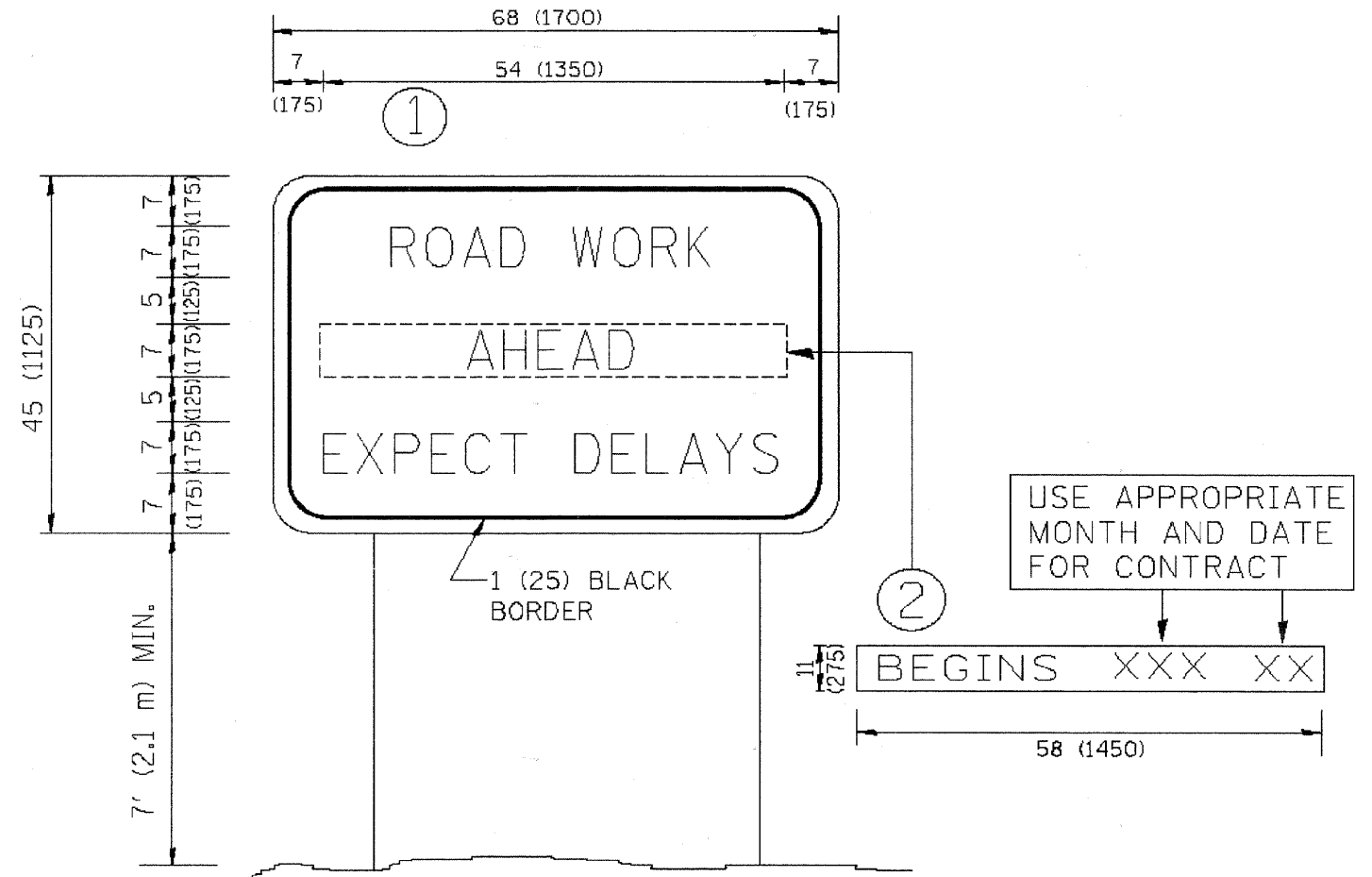
**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

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

| | | | | |
|-----------------------|------------------------|---------------------------------------|-----------------|---------------|
| F.A. RTE. 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 75B |
| TC-16 | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\DOT MARKINGS.dwg Nov 21, 2011 11:24am



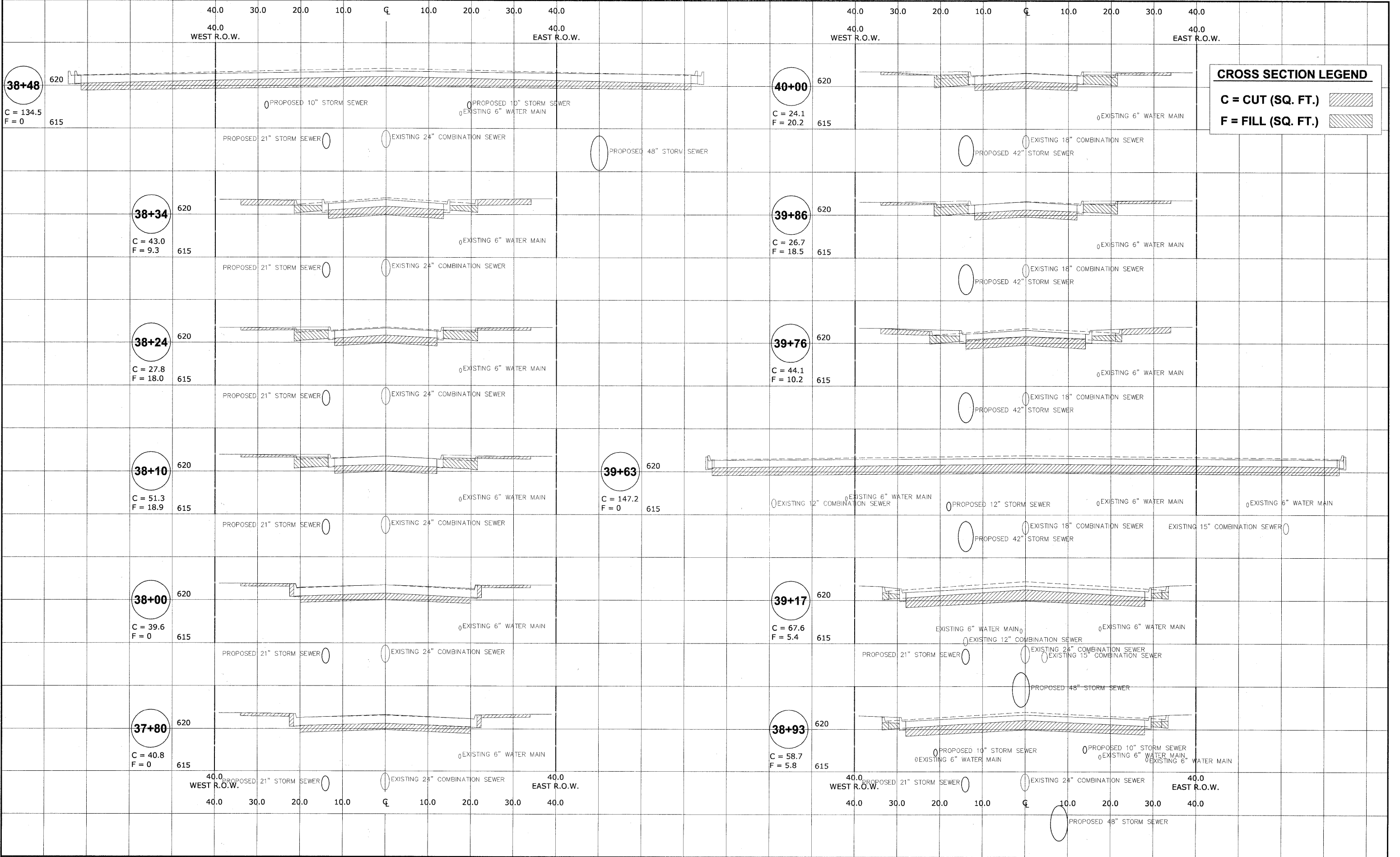
NOTES:

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 = W:\data\12509232\12509232.dwg | USER NAME = geglent | DESIGNED - DRAWN - | REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD INFORMATION SIGN | F.A. RTE. = 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 75C |
| PLOT SCALE = 88.000 1/2 IN. | CHECKED - | REVISED - T. RANMACHER 02-02-99 | TC-22 | | | CONTRACT NO. 63651 | | | | |
| PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | | | | |
| SCALE: NONE | | | | | SHEET NO. 1 OF 1 SHEETS | | STA. TO STA. | | E.H.E. PROJECT NO. 125-09-23201 | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineer\X-sections\Xsect GRAND.dwg Oct. 25, 2011 - 10:08am



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

933 Kennell Road
 Wheeling, Illinois 60094-2700
 Phone: 708.962.0100
 Fax: 708.962.0125

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

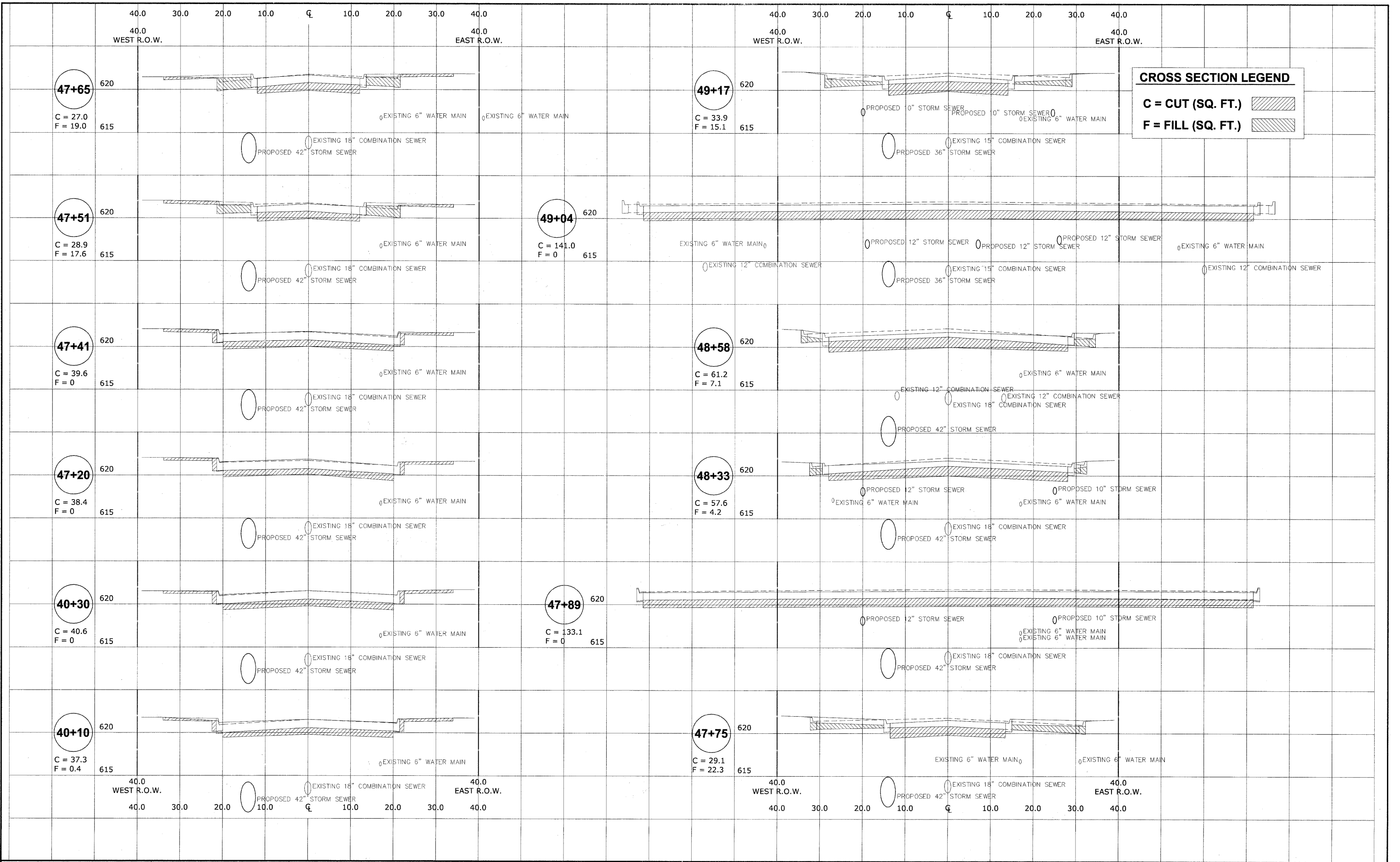
**CROSS SECTIONS
 GRAND BOULEVARD**

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

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 76 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design_Engineer\X-SECTIONS\Xsect GRAND.dwg Oct 24, 2011 - 3:09pm



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9533 Riverchase Road
 Westchester, Illinois 60591-7700
 Phone: 708.945.0300
 Fax: 708.945.3322

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

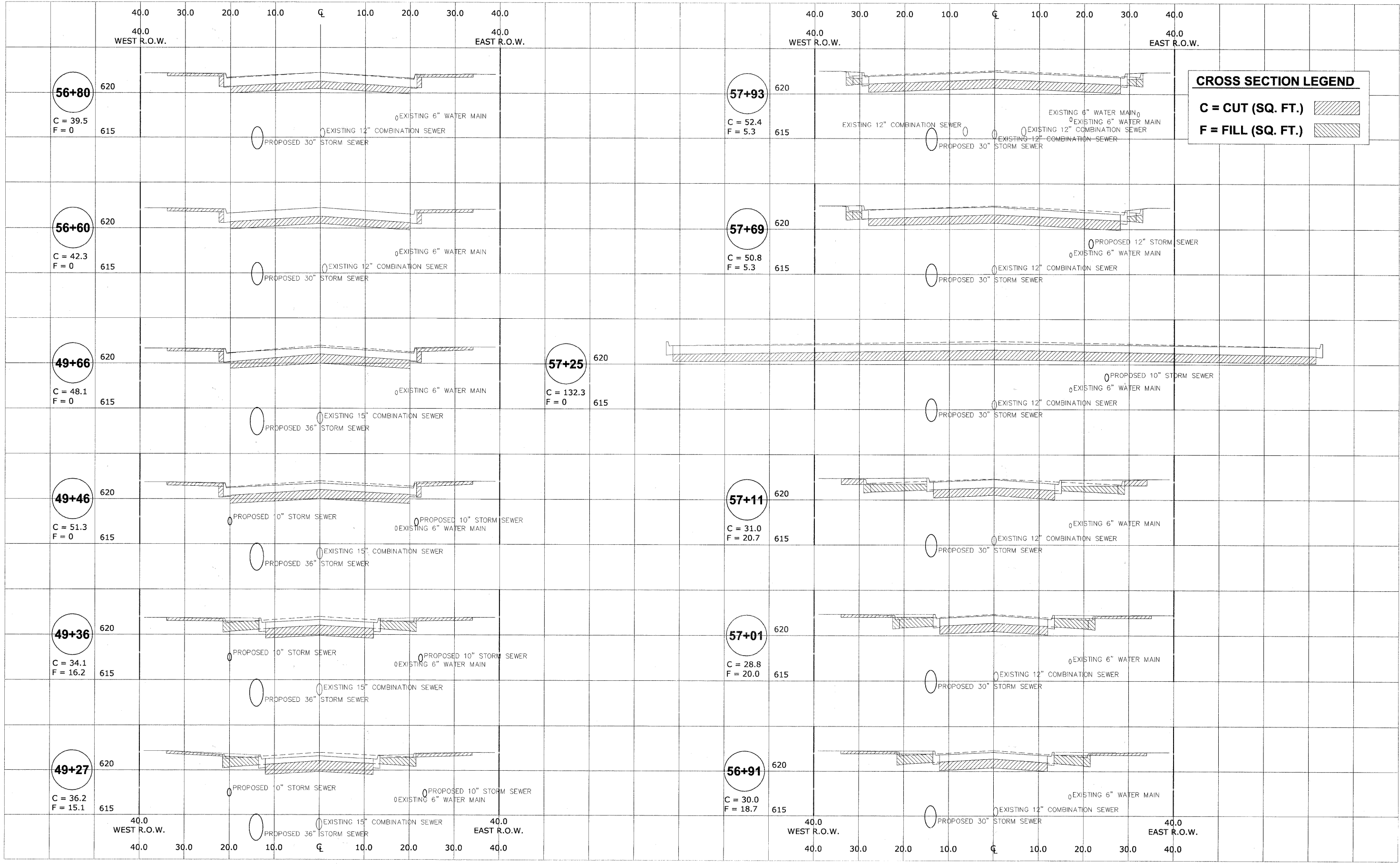
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 GRAND BOULEVARD**

SCALE: 1"=10'H 1"=5'V SHEET NO. 2 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 77 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineering\X-SECTIONS\Xsec GRAND.dwg Oct 25, 2011 - 2:39pm



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| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

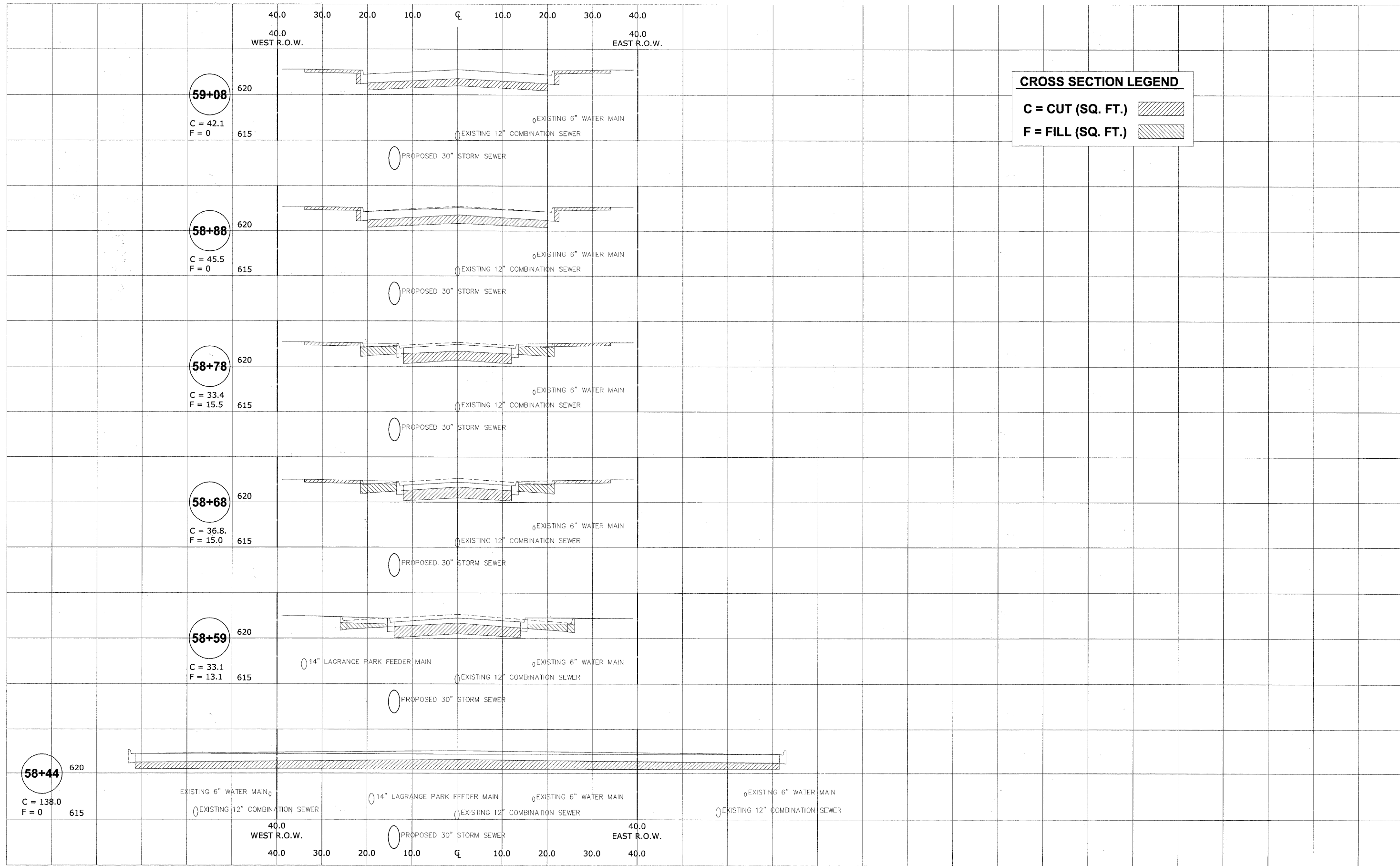
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 GRAND BOULEVARD**

SCALE: 1"=10'H 1"=5'V SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

| | | | | |
|----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 78 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\X-SECTIONS\sect GRAND.dwg Oct. 24, 2011 - 3:06pm



CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

HANCOCK ENGINEERING
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9932 Roswell Road
 Woodbury, Illinois 60591-2786
 Phone: 815-962-0100
 Fax: 815-962-1222

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

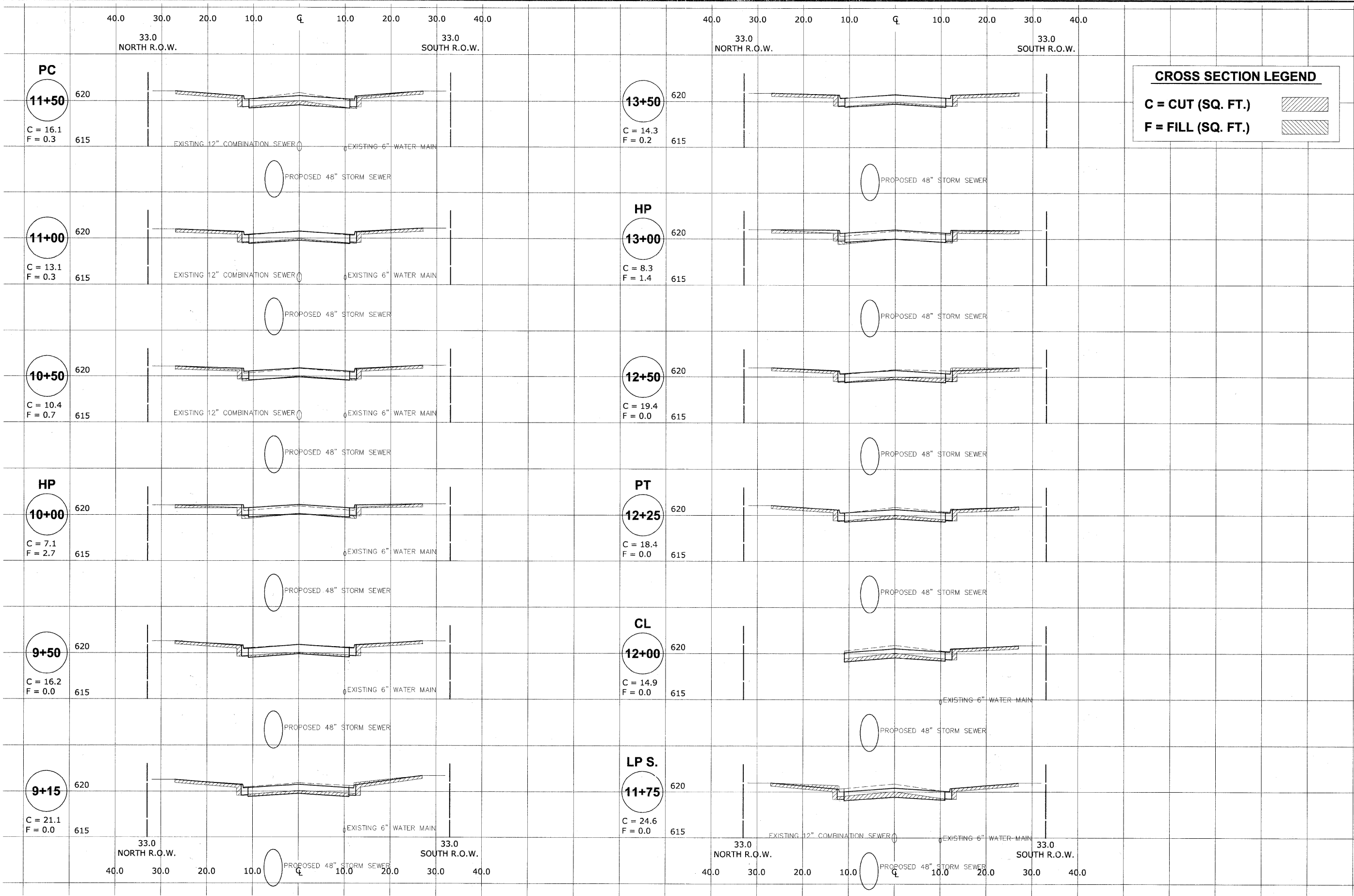
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 GRAND BOULEVARD**

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

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 79 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineer\X-sections\Xsect_MONROE.dwg Oct 24, 2011 - 3:11pm



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9813 Broadway Road
 Westborough, MA 01581-2796
 Phone: 508-862-6300
 Fax: 508-862-5322

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

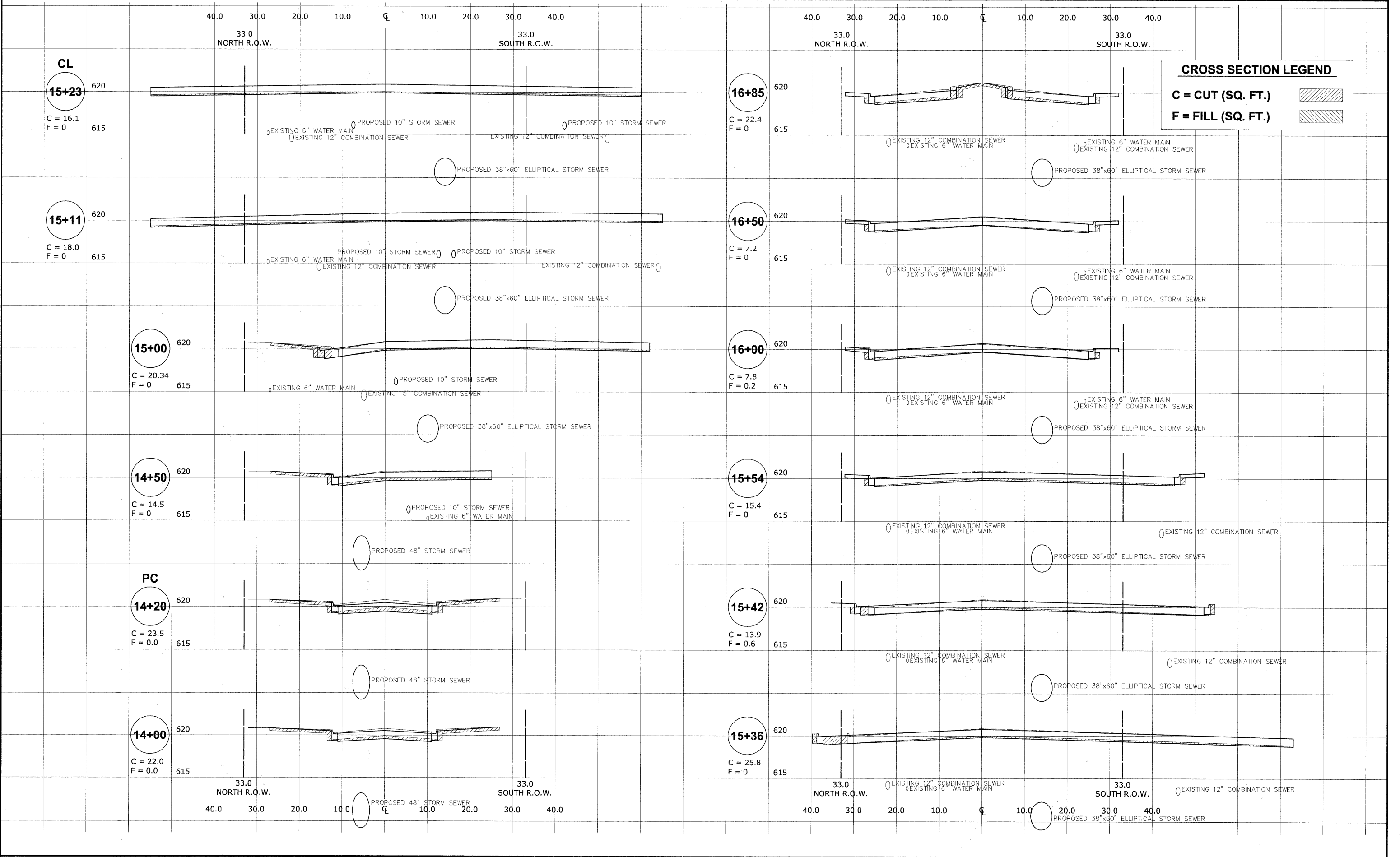
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MONROE AVENUE**

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

| | | | | |
|-------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 80 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineering\SECTIONS\Xsect_MONROE.dwg Oct 24, 2011 - 3:11pm



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9511 Riverhill Road
 Westborough, Illinois 61591-2708
 Phone: 781-962-6386
 Fax: 781-962-1332

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MONROE AVENUE**

SCALE: 1"=10'H 1"=5' V SHEET NO. 2 OF 7 SHEETS STA. - TO STA. -

| | | | | |
|-------------------------------------------------------------|----------------|--------|--------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 81 |
| FIELD BOOK NO. | -AERIALS/ILL | | CONTRACT NO. 63651 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |
| E.H.E. PROJECT NO. 125-09-23201 | | | | |

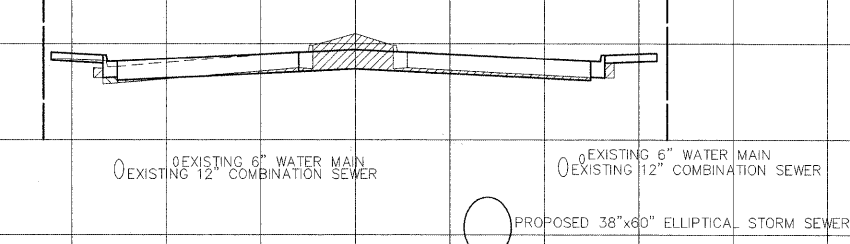
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 33.0 WEST R.O.W. 33.0 EAST R.O.W.
 40.0 30.0 20.0 10.0 CL 10.0 20.0 30.0 40.0
 33.0 WEST R.O.W. 33.0 EAST R.O.W.

CROSS SECTION LEGEND

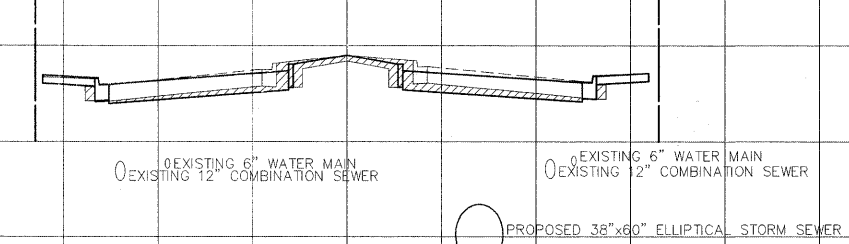
C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

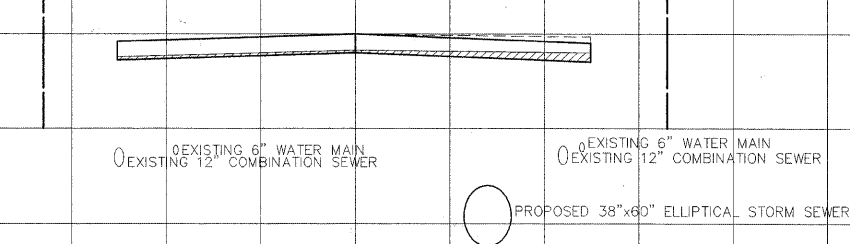
18+89
 C = 19.3
 F = 1.0



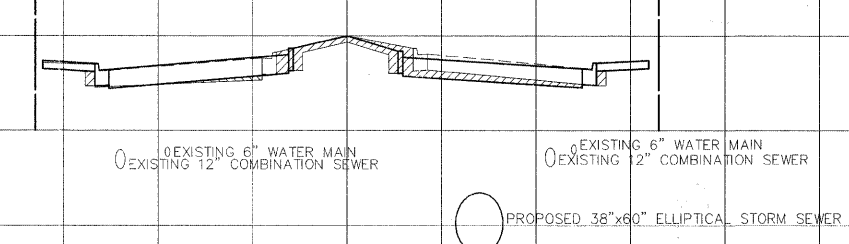
21+50
 C = 22.9
 F = 0



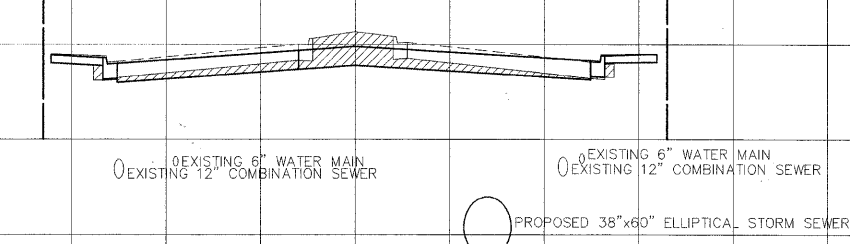
18+55
 C = 11.8
 F = 0



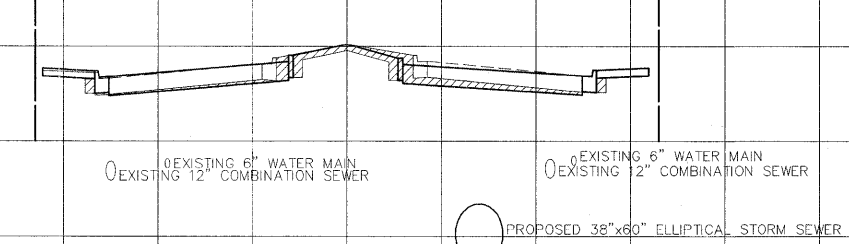
21+00
 C = 18.1
 F = 1.3



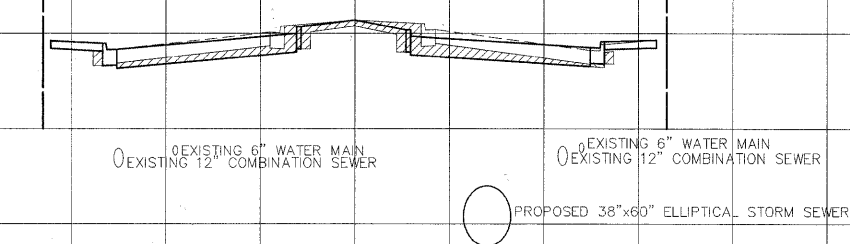
18+23
 C = 30.5
 F = 0



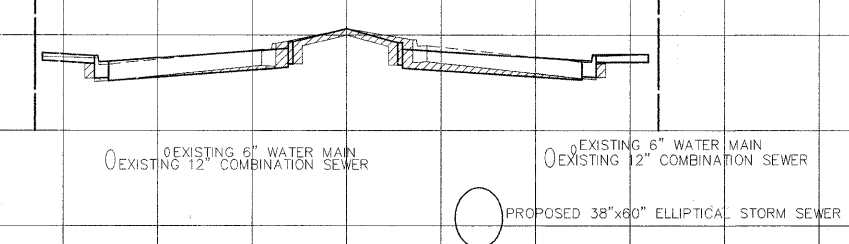
20+50
 C = 20.1
 F = 0.2



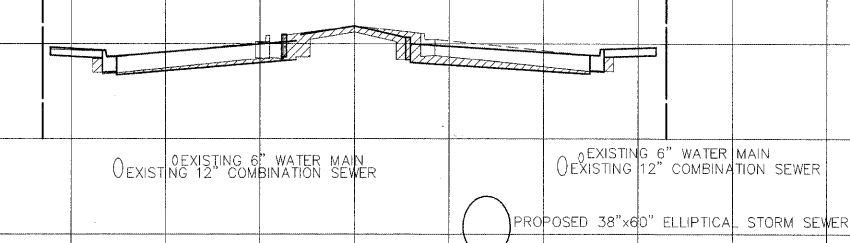
18+00
 C = 27.0
 F = 0.3



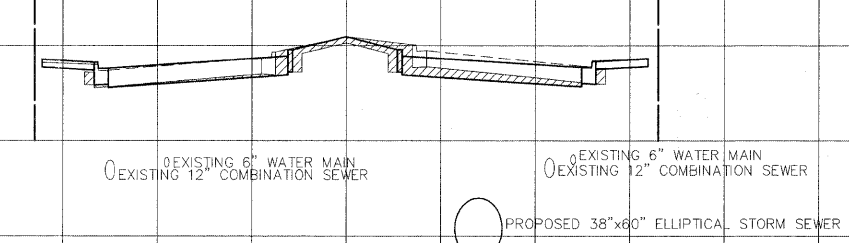
20+00
 C = 19.1
 F = 0.5



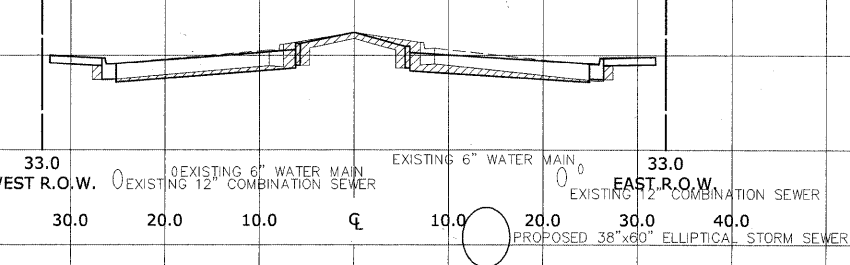
17+50
 C = 21.7
 F = 0



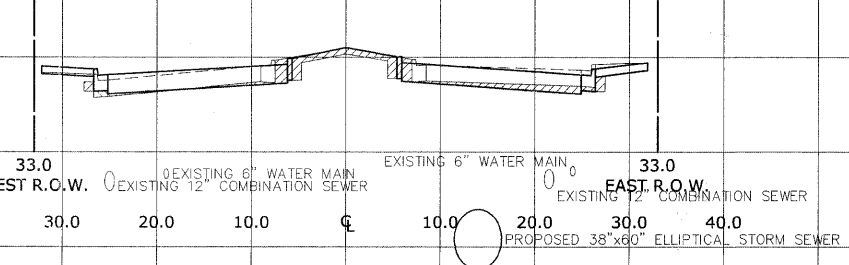
19+50
 C = 21.3
 F = 0.2



17+00
 C = 22.0
 F = 0



19+00
 C = 16.6
 F = 1.0



33.0 WEST R.O.W. 33.0 EAST R.O.W.
 40.0 30.0 20.0 10.0 CL 10.0 20.0 30.0 40.0
 33.0 WEST R.O.W. 33.0 EAST R.O.W.
 40.0 30.0 20.0 10.0 CL 10.0 20.0 30.0 40.0

Drawing file: W:\Projects\12509232 - Grand Blvd. Design_Engneerm\X-SECTIONS\Xsec_MONROE.dwg Oct 24, 2011 - 3:11pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

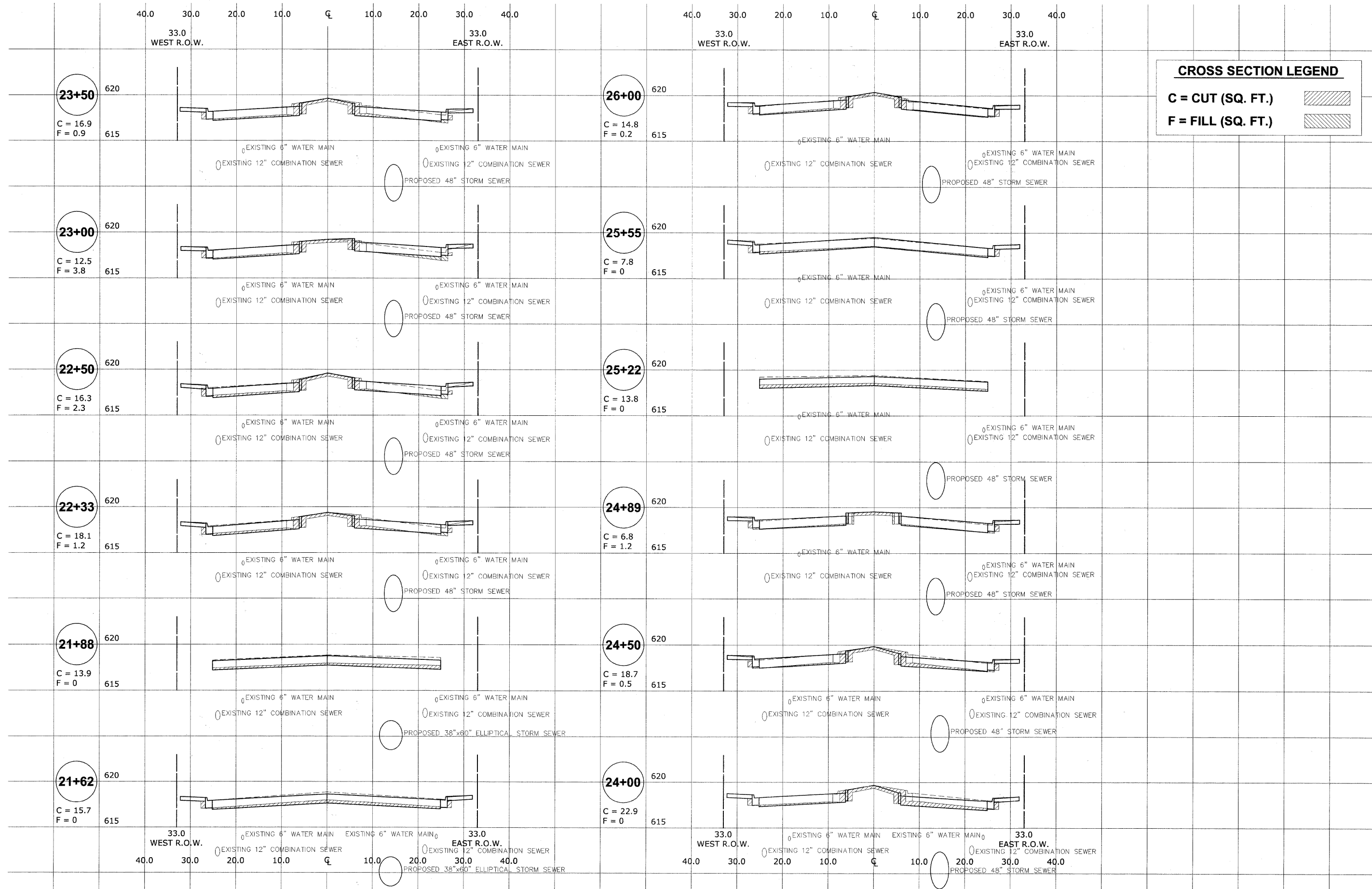
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MONROE AVENUE**

SCALE: 1"=10'H 1"=5' V SHEET NO. 3 OF 7 SHEETS STA. TO STA.

| | | | | |
|----------------------------|----------------|---------------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 82 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT M-9003(875) | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineering\X-sections\Xsect_MONROE.dwg Oct 24, 2011 - 3:11pm



CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



9933 Riverwood Road
Waukegan, Illinois 60087-2786
Phone: 815-494-4100
Fax: 815-494-4112

USER NAME -
PLOT SCALE -
PLOT DATE -

DESIGNED - WOP, JG
DRAWN - MK, DMM
CHECKED - WOP, JG
DATE - 10-24-11

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

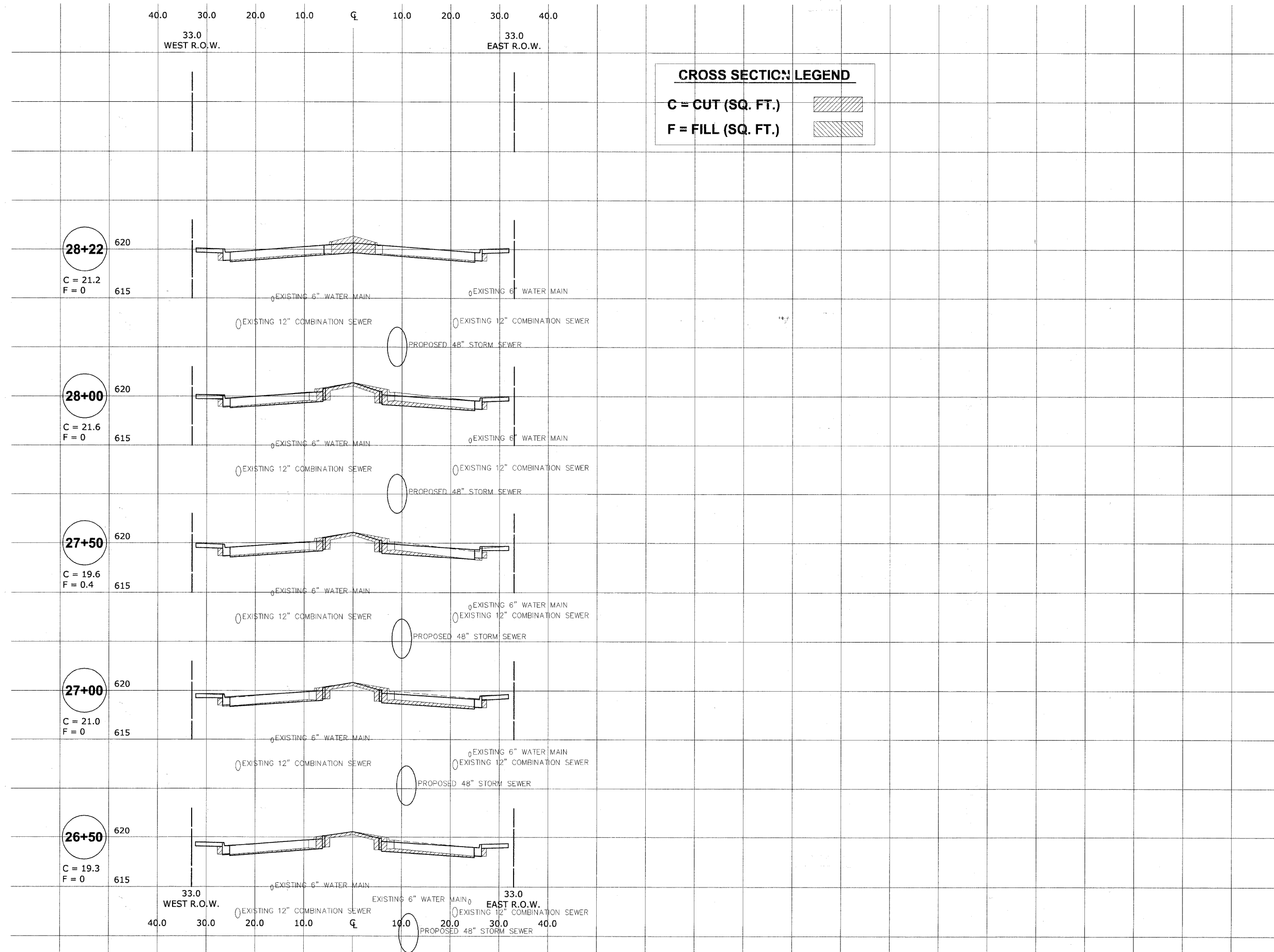
**CROSS SECTIONS
MONROE AVENUE**

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

| | | | | |
|-------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1684 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 83 |
| FIELD BOOK NO. -AERIALS/ILL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

E.H.E. PROJECT NO. 125-09-23201

Drawing file: W:\Projects\12509232 - Grand Blvd. Design Engineering\X-SECTIONS\Xsec_MONROE.dwg Oct. 24, 2011 - 3:11pm



CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

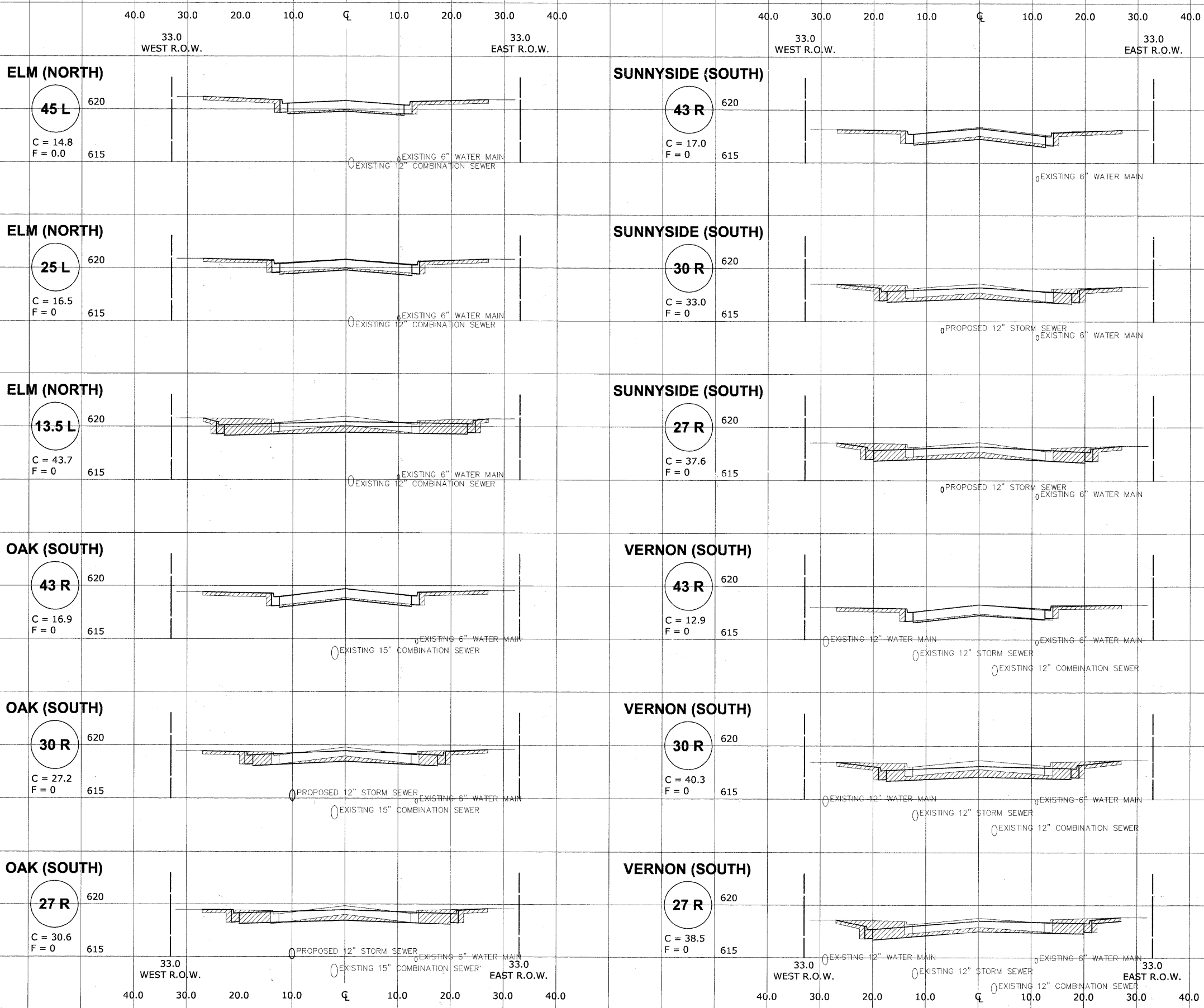
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MONROE AVENUE**

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

| | | | | |
|--------------------------------|----------------|------------------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 84 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(875) | | |

Drawing file: W:\Projects\2509232 - Grand Blvd. Design Engineering\X-SECTIONS\Xsec_MONROE.dwg Oct. 24, 2011 - 3:11pm



CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

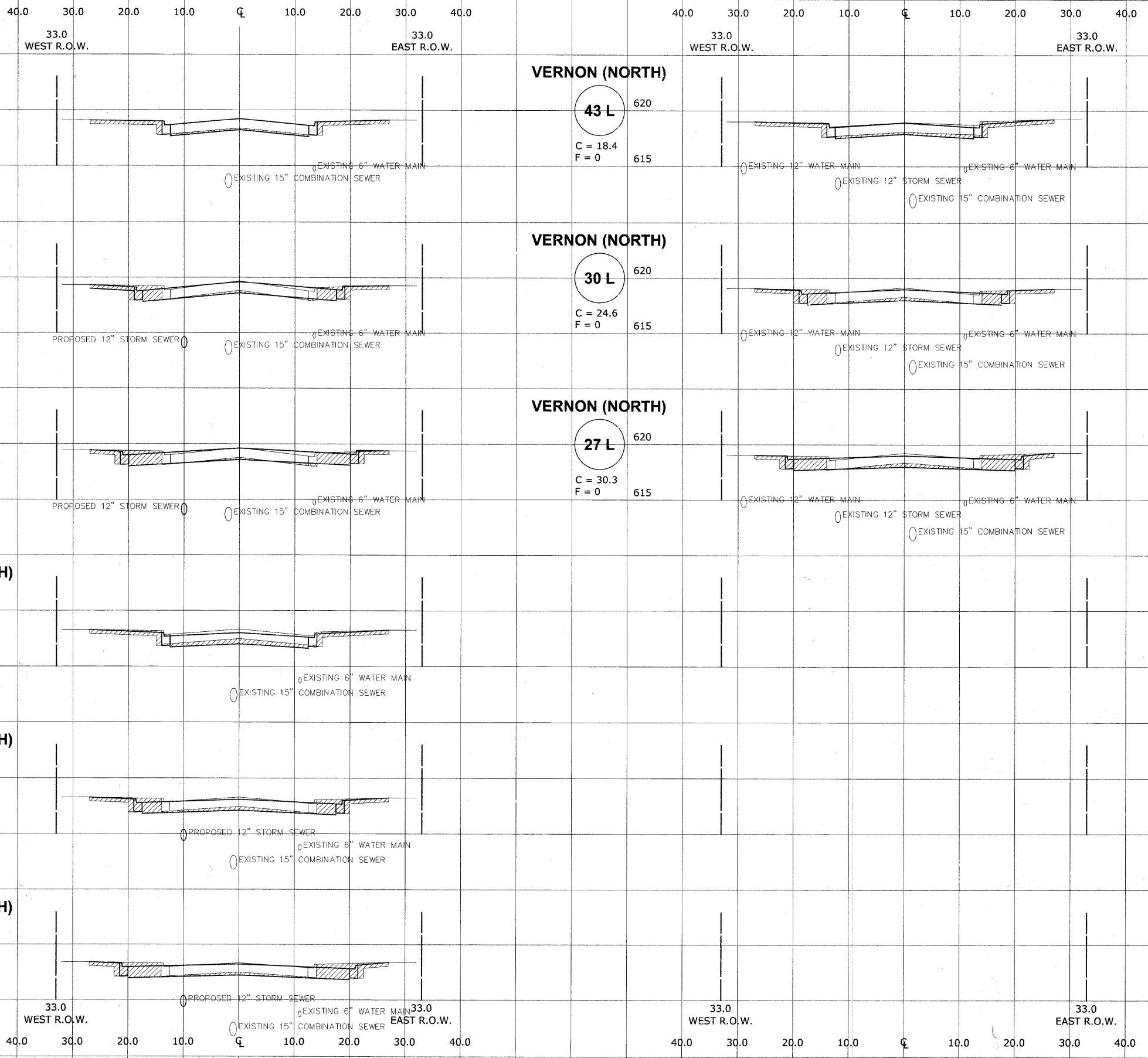
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 MONROE AVENUE**

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

| | | | | |
|-------------------------------------------------------------|----------------|--------------------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 1694 | 07-00122-01-PV | COOK | 86 | 85 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |

Drawing file: W:\Projects\12509232 - Grand Blvd. Design\Engineering\X-SECTIONS\Xsect_MONROE.dwg Oct 24, 2011 - 3:11pm



CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



| | | |
|--------------|--------------------|-----------|
| USER NAME - | DESIGNED - WOP, JG | REVISED - |
| PLOT SCALE - | DRAWN - MK, DMM | REVISED - |
| PLOT DATE - | CHECKED - WOP, JG | REVISED - |
| | DATE - 10-24-11 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
MONROE AVENUE**

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

| | | | | |
|-------------------------------------------------------------|---------------------------|--------------------|--------------------|-----------------|
| ROUTE NO. FAU 1694 | SECTION 07-00122-01-PV | COUNTY COOK | TOTAL SHEETS 86 | SHEET NO. 86 |
| FIELD BOOK NO. -AERIALS/LL | | CONTRACT NO. 63651 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(875) | | | | |