

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63094		

1/69+2 17/70+1

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**DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
FEDERAL HIGHWAY**

**FAU 3513 (ILLINOIS ROUTE 21 – MILWAUKEE AVENUE)
WEST ALBION AVENUE TO NEVA AVENUE
WIDENING AND RESURFACING
AND
HARTS ROAD TO MONROE STREET
STREETScape IMPROVEMENTS
SECTION NO.: 08-00107-01-PV
PROJECT NO.: TE-M-9003(126)
VILLAGE OF NILES
COOK COUNTY
C-91-148-09**

TRAFFIC DATA

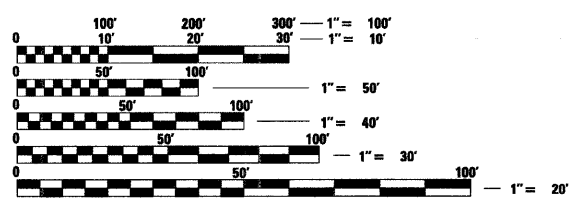
ADT:
MILWAUKEE AVE.. 36,400 VPD (2007) 38,000 VPD (2030)

POSTED SPEED DESIGN SPEED

35 MPH (EXISTING) 40 MPH (PROPOSED)
35 MPH (PROPOSED)




LOCATION OF SECTION INDICATED THUS: - [black rectangle] -



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811



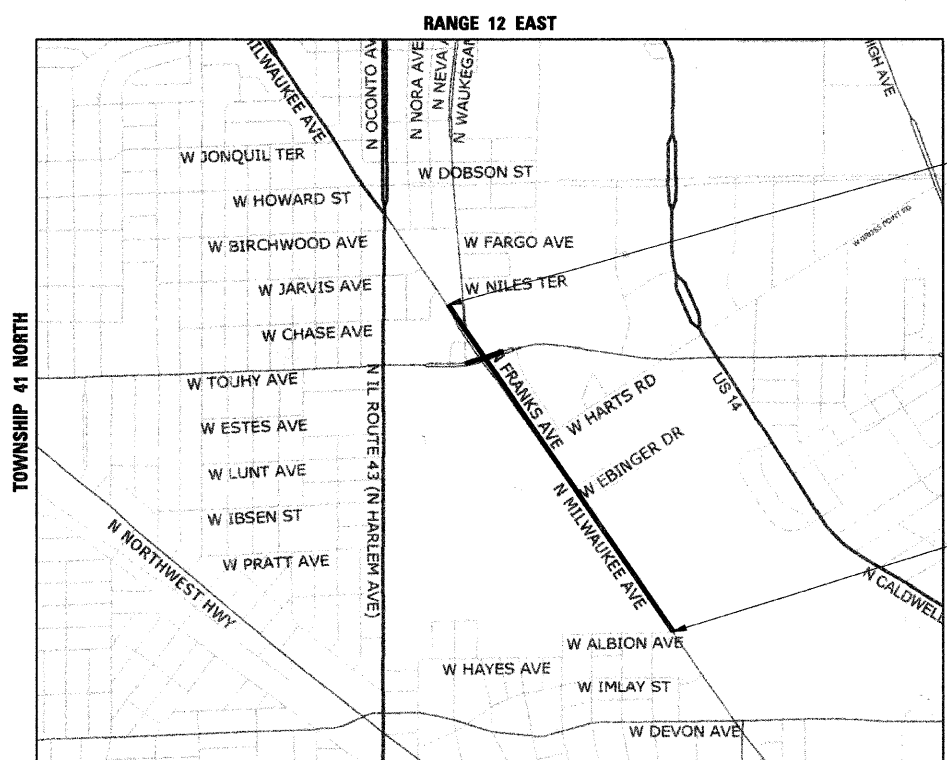
Illinois Professional Design Firm # 184-000108



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**PROJECT ENGINEER: C. HARTKE
PROJECT MANAGER: J. PISHA**

CONTRACT NO. 63094



**PROJECT LOCATION MAP
N.T.S.**

**PROJECT ENDS
WIDENING & RESURFACING
STA. 166 + 00**

**PROJECT BEGINS
WIDENING & RESURFACING
STA. 105 + 25**



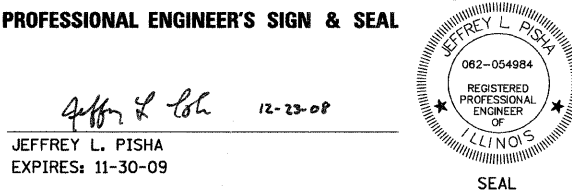
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 12/23 2008
Mano Alaya
VILLAGE OF NILES

PASSED 1-08 2009
Christophe Holt
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW JANUARY 6, 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL



JEFFREY L. PISHA
EXPIRES: 11-30-09
SEAL

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

PROJECT LENGTH
NET LENGTH OF PROJECT (MILWAUKEE AVE.) = 6,075.00 FT (1.151 MI)
GROSS LENGTH OF PROJECT = 6,075.00 FT (1.151 MI)

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: ARAM CHAUDHARY
 PROJECT NO.: 08-00107-01-PV
 DATE PLOTTED: 12/22/2008 11:54:49 AM
 FILE NAME: 060253-cvr.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-frank.tbl
 FEDERAL AID DESIGN ENGINEER: ALEX HOUSEH (847) 705-4410

STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
424001-05	CURB RAMPS FOR SIDEWALK
442101-07	CLASS B PATCHING
442201-03	CLASS C AND D PATCHING
602001-01	CATCH BASIN, TYPE A
602301-02	INLET, TYPE A
602306-02	INLET, TYPE B
602401-02	MANHOLE, TYPE A
602501-01	VALVE VAULT, TYPE A
604001-03	TYPE 1 FRAME AND LIDS
604051-03	TYPE 11 FRAME AND LIDS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606306-03	CORRUGATED CONCRETE MEDIAN
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701601-06	LANE CLOSURE, URBAN, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-04	LANE CLOSURE, URBAN, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-06	LANE CLOSURE, URBAN, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
729001-01	APPLICATIONS FOR TYPE A AND B METAL POSTS
780001-02	PAVEMENT MARKINGS
781001-03	APPLICATION FOR RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES:

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2007.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- A SOILS REPORT IS ON FILE AND AVAILABLE FOR REVIEW AT SEC GROUP, INC. MCHENRY OFFICE UPON REQUEST.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (800) 892-0123 AND THE VILLAGE OF NILES AT (847) 588-7926 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND HMA TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE USGS DATUM.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
- THE ENGINEER SHALL BE RESPONSIBLE FOR AND PROVIDE REQUIRED STAKING INFORMATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO REQUIRED STAKING BEING COMPLETED. CONSTRUCTION STAKES WILL BE INSTALLED ONE TIME, ANY ADDITIONAL RESTAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR PROVIDED AT A COST TO THE CONTRACTOR.
- TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT MR. CORY JUCIUS, AREA TRAFFIC FIELD ENGINEER, (815)485-6475
- THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.0004 TONS / SQ YD.
- SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.
- DRIVEWAY OFFSETS ARE TO BE CONSTRUCTED TO WITHIN ONE (1) FOOT OF THE R.O.W. OR UNLESS OTHERWISE NOTED.
- ALL DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION DRIVEWAY DETAILS INCLUDED IN DETAIL SHEETS.
- ALL PROPOSED COMMERCIAL ENTRANCES ARE COMPRISED OF 8 INCHES P.C.C. AND 4 INCHES OF SUB-BASE GRANULAR MATERIAL, TYPE B.
- REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- USE OF NO. 20 (#6) EPOXY COATED TIE BARS CONFORMING TO ARTICLE 1006.10 (b) (2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINTS AS SHOWN ON STATE STANDARD 420001-01 WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.
- THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/50-YD.



USER NAME = charthe	DESIGNED - JPA	REVISED
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED
	DATE - 12/16/08	REVISED

VILLAGE OF NILES

LIST OF HIGHWAY STANDARDS AND GENERAL NOTES			
SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-08-PV	COOK	169	2
CONTRACT NO. 08-00107-08-PV			ILLINOIS FED. AID PROJECT M-8003(723)	

GENERAL NOTES (CONT.)

STORM SEWERS, WATER MAINS, AND UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
2. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
4. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
6. UNLESS OTHERWISE NOTED OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT AND OFFSETS FOR DRAINAGE STRUCTURES NOT LOCATED IN CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.
7. STORM SEWER LENGTHS ARE MEASURED FROM INSIDE EDGE OF STRUCTURE TO THE INSIDE EDGE OF STRUCTURE, THEN ADDING 0.5' TO EACH END OF PIPE. SLOPE OF PIPE IS CALCULATED BY DIVIDING THE DIFFERENCE IN ELEVATION BY THE PIPE LENGTH.
8. THE PAY ITEM FOR STORM SEWER REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY WITH THE QUANTITY SHOWN ON THE PLANS.
9. ANY STORM SEWERS CROSSING WATER MAINS SHALL BE OF WATERMAIN QUALITY PIPE (RUBBER GASKET) IN ACCORDANCE WITH THE SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT BE INCLUDED IN THE COST OF THE STORM SEWER BEING INSTALLED.
10. THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
11. ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
12. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
13. THE COST OF INTERCONNECTIONS BETWEEN THE PROPOSED AND EXISTING SEWER SYSTEMS AND PROPOSED AND EXISTING WATER MAIN SYSTEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE PROPOSED SYSTEM. THE COST OF CONNECTING PROPOSED STORM SEWER PIPE TO EXISTING STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT BID PRICES OF THE PROPOSED SYSTEM.
14. ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE STATE OR VILLAGE, AS APPLICABLE.
15. ANY ITEMS DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR DELIVERY TO THE STATE OR VILLAGE MAINTENANCE YARD SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, VALVE VAULT OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM." ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURES SHALL BEAR THE WORD "WATER," ALL LIDS TO BE USED ON SANITARY SYSTEM STRUCTURES SHALL BEAR THE WORD "SANITARY." ANY ADDITIONAL COST FOR THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE FRAMES AND CLOSED LIDS PROVIDED.
17. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
18. CONCRETE PAVEMENT RESTORATION ADJACENT TO EXISTING STRUCTURES REQUIRING NEW FRAME AND GRATES OR LIDS SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE UNIT COST FOR COMBINATION CURB AND GUTTER, TYPEB-6.12 (SPECIAL).
19. THE CONTRACTOR SHALL CONTACT THE VILLAGE OF NILES PUBLIC WORKS A MINIMUM OF 48 HOURS PRIOR TO ANY DISRUPTION IN WATER SERVICE.
20. WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF 5.50 FEET OF COVER BELOW EXISTING ELEVATION OR PROPOSED FUTURE ELEVATION WHICHEVER IS GREATER UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.
21. LOCATE PRESSURE CONNECTIONS A MINIMUM OF 2 FEET FROM ANY EXISTING REPAIR SLEEVES. CONDUCT EXPLORATORY EXCAVATIONS AS REQUIRED. COST FOR EXPLORATION SHALL BE INCLUDED IN THE COST OF EXPLORATION TRENCH, SPECIAL.
22. CONTRACTOR IS REQUIRED TO MEET PRESSURE TESTING REQUIREMENTS FOR ALL NEW WATER MAINS REGARDLESS OF CONDITION OF EXISTING VALVES. PROVIDE TEMPORARY PLUGS, PROVISIONS FOR FLUSHING AND BLOCKING AT CONNECTION POINTS IF NECESSARY TO MEET TESTING REQUIREMENTS AT NO ADDITIONAL COST TO THE CONTRACT.

24. ABANDON EXISTING WATER MAIN AFTER NEW SERVICES ARE CONNECTED TO THE NEW WATER MAIN.
25. USE MECHANICAL JOINT FITTINGS TO PLUG/CAP EXISTING WATER MAINS TO BE ABANDONED.
26. SIZE AND LOCATION OF EXISTING WATER MAINS INDICATED ARE BASED ON AVAILABLE RECORDS AND LOCATING EFFORTS AND ARE NOT ALWAYS ACCURATE. THE CONTRACTOR SHALL LOCATE, UNCOVER, AND VERIFY SIZE OF ALL EXISTING MAINS IN ADVANCE OF CONNECTING TO OR ABANDONMENT OF THE MAIN AND HAVE APPROPRIATE FITTINGS OR VALVES REQUIRED AT THE TIME OF CONNECTION OR ABANDONMENT. COST OF LOCATING AND VERIFICATION OF EXISTING MAINS IS INCLUDED IN THE COST OF WATER MAIN.
27. THE CONTRACTOR SHALL LAY THE REPLACEMENT MAIN UP TO PROPOSED CONNECTION POINT WITH EXISTING MAIN OR EXISTING SERVICE AND TEMPORARY PLUG. CONNECT TO EXISTING WATER MAIN OR EXISTING SERVICE ONCE THE NEW MAIN HAS BEEN SUCCESSFULLY TESTED AND DISINFECTED (NON-PRESSURE CONNECTIONS). PLUG ENDS OF PIPE TO BE ABANDONED.
28. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE TO THE VILLAGE OF NILES, (847) 588-7926 WHEN CONNECTIONS TO THE EXISTING MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING MAINS WITH THE VILLAGE'S WATER SUPERINTENDENT. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO THE ENGINEER AND VILLAGE WATER DEPARTMENT 48 HOURS IN ADVANCE.
29. PRESSURE TEST: 150 PSI FOR TWO (2) HOURS.
30. ONLY VILLAGE STAFF SHALL OPERATE EXISTING WATER VALVES.

BACKFILL

1. STORM SEWER, WATER MAIN, AND SANITARY SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER.
2. PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.
3. COST OF ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED, INCLUDING BEDDING MATERIAL, SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID.

SIGNING AND STRIPING

1. SEE IDOT STANDARD DETAIL 780001, DISTRICT ONE DETAIL AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
2. ALL EXISTING SIGNS LOCATED ON UTILITY/LIGHT POLES TO REMAIN THAT DO NOT CONFLICT WITH THE IMPROVEMENTS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.
3. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
4. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
5. ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE PAID FOR USING THE APPROPRIATE PAY ITEMS.
6. ALL REMOVED SIGNS SHALL BE RETURNED TO THE STATE OR VILLAGE AS APPLICABLE.
7. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.

EROSION CONTROL PLANS

1. SEE EROSION CONTROL PLANS FOR GENERAL NOTES CONCERNING EROSION CONTROL.

TRAFFIC CONTROL

1. SEE TRAFFIC CONTROL PLANS FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.

EARTHWORK

1. PRIOR TO ANY EMBANKMENT PLACEMENT ALL VEGETATION AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL.
2. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.

VILLAGE OF NILES

LIST OF HIGHWAY STANDARDS AND GENERAL NOTES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-08-PV	COOK	169	3
CONTRACT NO. 08-00107-08-PV				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M - 8003(723)				

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



USER NAME = char-ke	DESIGNED - JPA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU	ITEP	STU						
					70% FED 30% STATE	80% FED 20% VILLAGE	100% VILLAGE	HARTS	TOUHY	WAUKEGAN	ECT		
					1000-2A	Y003	Y060	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F		
	20100110	TREE REMOVAL (6 TO 15 UNITES DIAMETER)	UNIT	120	120								
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,690	3,690								
	20400800	FURNISHED EXCAVATION	CU YD	750	750								
	20800150	TRENCH BACKFILL	CU YD	6,200	6,200								
★	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,500	2,500								
	21300010	EXPLORATION TRENCH, SPECIAL	FOOT	500	500								
★	25200100	SODDING	SQ YD	2,000	2,000								
★	25200200	SUPPLEMENTAL WATERING	UNIT	5	5								
	28000510	INLET FILTERS	EACH	107	107								
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B, 4"	SQ YD	8,300	8,300								
	31101400	SUB-BASE GRANULAR MATERIAL, TYPE B, 6"	SQ YD	7,225	7,225								
	31101500	SUB-BASE GRANULAR MATERIAL, TYPE B, 7"	SQ YD	840	840								
	35300400	PORTLAND CEMENT CONCRETE BASE COURSE, 9"	SQ YD	1,620	1,620								
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	2,320	2,320								
	40600300	AGGREGATE (PRIME COAT)	TON	50	50								
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT	SQ YD	300	300								
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	1,010	95			915					
	40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	3,000	3,000								
	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	2,335	2,335								
	42001300	PROTECTIVE COAT	SQ YD	12,555	12,555								
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	2,950	2,950								
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	75,000	75,000								
	42400800	DETECTABLE WARNINGS	SQ FT	330	330								
	44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	21,600	21,600								
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	3,660	3,660								
	44000500	COMBINATION CURB AND CUTTER REMOVAL	FOOT	13,900	13,900								
	44000600	SIDEWALK REMOVAL	SQ FT	86,000	86,000								
	44003100	MEDIAN REMOVAL	SQ FT	3,800	3,800								
	44200948	CLASS B PATCHES, TYPE I, 9"	SQ YD	100	100								
	44200956	CLASS B PATCHES, TYPE II, 9"	SQ YD	115	115								
	44200962	CLASS B PATCHES, TYPE III, 9"	SQ YD	100	100								
	44200964	CLASS B PATCHES, TYPE IV, 9"	SQ YD	560	560								
	44201337	CLASS C PATCHES, TYPE I, 9"	SQ YD	50	50								
	44201341	CLASS C PATCHES, TYPE II, 9"	SQ YD	225	225								
	44201345	CLASS C PATCHES, TYPE III, 9"	SQ YD	125	125								
	44201347	CLASS C PATCHES, TYPE IV, 9"	SQ YD	1,940	840			1,100					
	55100400	STORM SEWER REMOVAL, 10"	FOOT	120	120								
	55100500	STORM SEWER REMOVAL, 12"	FOOT	375	375								
	55100700	STORM SEWER REMOVAL, 15"	FOOT	100	100								
★	56100600	WATER MAIN, 6"	FOOT	550				550					
★	56100700	WATER MAIN, 8"	FOOT	400				400					
★	56100800	WATER MAIN, 10"	FOOT	30				30					
★	56100900	WATER MAIN, 12"	FOOT	5,453				5,453					
★	56103000	DUCTILE IRON WATER MAIN, 6"	FOOT	300				300					
★	56300300	ADJUSTING WATER SERVICES LINES	FOOT	125				125					
★	56400500	FIRE HYDRANT TO BE REMOVED	EACH	18				18					
★	56400600	FIRE HYDRANT	EACH	18				18					
	60201005	CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 10 F&G	EACH	5	5								
	60201105	CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 11 F&G	EACH	30	30								
	60221100	MANHOLE, TYPE A, 5' DIAMETER, TYPE 1 CLOSED LID	EACH	1	1								
	60236800	INLET, TYPE A, TYPE 11 F&G	EACH	35	35								
	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	12				12					
	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	18				18					
	60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	8				8					



USER NAME = char_uke	DESIGNED - JPA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 4
FED. ROAD DIST. NO. [ILLINOIS]		FED. AID PROJECT M - 8003(723)		CONTRACT NO.

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU	ITEP	STU				
					70% FED 30% STATE	80% FED 20% VILLAGE	100% VILLAGE	HARTS	TOUHY	WAUKEGAN	ECT
					I000-2A	Y003	Y060	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F
	60266500	VALVE VAULTS TO BE REMOVED	EACH	2			2				
	60404700	FRAMES AND GRATES, TYPE 10	EACH	4	4						
	60404800	FRAMES AND GRATES, TYPE 11	EACH	20	20						
	60405740	FRAME AND GRATE TO BE REMOVED	EACH	20	20						
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	8	8						
	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	49	49						
	60604200	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	14,300	14,300						
	60624600	CORRUGATED MEDIAN	SQ FT	3,600	3,600						
★	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	730	730						
★	66900400	SPECIAL WASTE GROUND WATER DISPOSAL	GAL	20,000	20,000						
★	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1						
★	66900530	SOIL DISPOSAL ANALYSIS	EACH	7	7						
★	66901000	BACKFILL PLUGS	CU YD	140	140						
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13						
	67100100	MOBILIZATION	L SUM	1	1						
	70101800	TRAFFIC CONTROL & PROTECTION, (SPECIAL)	L SUM	1	1						
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24	24						
	70300210	TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS	SQ FT	729	729						
	70300220	TEMPORARY PAVEMENT MARKING, LINE 4"	FOOT	30,434	30,434						
	70300240	TEMPORARY PAVEMENT MARKING, LINE 6"	FOOT	156	156						
	70300260	TEMPORARY PAVEMENT MARKING, LINE 12"	FOOT	231	231						
	70300510	PAVEMENT MARKING TAPE, TYPE III, LETTERS & SYMBOLS	SQ FT	328	328						
	70300520	PAVEMENT MARKING TAPE, TYPE III, LINE 4"	FOOT	6,440	6,440						
	70300540	PAVEMENT MARKING TAPE, TYPE III, LINE 6"	FOOT	1,474	1,474						
	70300570	PAVEMENT MARKING TAPE, TYPE III, LINE 24"	FOOT	1,474	1,474						
	72400710	RELOCATE SIGN PANEL, TYPE I	SQ FT	73	73						
	72900100	METAL POST, TYPE A	FOOT	154	154						
★	78000100	THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS	SQ FT	37	37						
★	78000200	THERMOPLASTIC PAVEMENT MARKING, LINE 4"	FOOT	17,243	17,243						
★	78000400	THERMOPLASTIC PAVEMENT MARKING, LINE 6"	FOOT	697	697						
★	78000600	THERMOPLASTIC PAVEMENT MARKING, LINE 12"	FOOT	150	150						
★	78000650	THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	128	128						
★	78008200	POLYUREA PAVEMENT MARKING, TYPE I, LETTERS & SYMBOLS	SQ FT	255	255						
★	78008210	POLYUREA PAVEMENT MARKING, TYPE I, LINE 4"	FOOT	5,947	5,947						
★	78008230	POLYUREA PAVEMENT MARKING, TYPE I, LINE 6"	FOOT	1,718	1,718						
★	78008270	POLYUREA PAVEMENT MARKING, TYPE I, LINE 24"	FOOT	323	323						
★	78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	330	330						
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	29,996	29,996						
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	330	330						
★	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1					
★	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1					
★	81000600	CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	1,624				522			1,102
★	81000700	CONDUIT IN TRENCH, 2.5" DIA, GALVANIZED STEEL	FOOT	93				66		27	
★	81000800	CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	FOOT	147		120		27			
★	81018500	CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	FOOT	27				27			
★	81018600	CONDUIT PUSHED, 2.5" DIA, GALVANIZED STEEL	FOOT	143				143			
★	81018900	CONDUIT PUSHED, 4" DIA, GALVANIZED STEEL	FOOT	321		264		57			
★	81400100	HANDHOLE	EACH	5				4			1
★	81400200	HEAVY-DUTY HANDHOLE	EACH	1				1			
★	81400300	DOUBLE HANDHOLE	EACH	2				2			
★	81702460	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	300		300					
★	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2,248		500		631		23	1,094
★	82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	8		8					
★	82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1		1					



USER NAME = charlke	DESIGNED - JPA	REVISED -
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PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

SUMMARY OF QUANTITIES

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

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M -8003(723)	CONTRACT NO.	

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU		STU					
					70% FED 30% STATE	80% FED 20% VILLAGE	100% VILLAGE	HARTS	TOUHY	WAIKEGAN	ECT	
								70% FED 30% STATE	70% FED 30% STATE	70% FED 30% STATE	70% FED 30% STATE	
					1000-2A	Y003	Y060	Y031-1F	Y031-1F	Y031-1F	Y031-1F	
★	83006500	LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	4		4						
★	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	234		234						
★	83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	50		50						
★	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3					1	1	1	
★	85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2					1	1	1	
★	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1					1			
★	86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1					1			
★	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2/C	FOOT	1,372					533		839	
★	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3/C	FOOT	2,505					1,280		1,225	
★	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5/C	FOOT	1,655					1,655			
★	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,247					1,247			
★	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT	EACH	1							1	
★	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2					2			
★	87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	2					2			
★	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1					1			
★	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12					8		4	
★	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4					4			
★	87800400	CONCRETE FOUNDATION, TYPE E, 30" DIA	FOOT	34					34			
★	87900200	DRILL EXISTING HANDHOLE	EACH	2							1	1
★	88030020	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST ARM MOUNTED	EACH	6					6			
★	88030050	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED	EACH	3					3			
★	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	5					5			
★	88600100	DETECTOR LOOP, TYPE 1	FOOT	327					327			
★	88700200	LIGHT DETECTOR	EACH	3					3			
★	88800100	PEDESTRIAN PUSH BUTTON	EACH	11					4	4	3	
★	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1					1			
★	89502200	MODIFY EXISTING CONTROLLER	EACH	1							1	
★	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,675					1,675			
★	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2					1	1		
★	89502380	REMOVE EXISTING HANDHOLE	EACH	6					6			
★	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6					6			
	550A0040	STORM SEWER, CLASS A, TYPE 1, 10"	FOOT	15	15							
	550A0050	STORM SEWER, CLASS A, TYPE 1, 12"	FOOT	2,035	2,035							
	550A0070	STORM SEWER, CLASS A, TYPE 1, 15"	FOOT	35	35							
	550A0330	STORM SEWER, CLASS A, TYPE 2, 10"	FOOT	17	17							
	550A0340	STORM SEWER, CLASS A, TYPE 2, 12"	FOOT	59	59							
	550A0360	STORM SEWER, CLASS A, TYPE 2, 15"	FOOT	28	28							
★	K0030411	PERENNIAL, ECHINACEA PURPUREA 'MAGNUS', (MAGNUS PURPLE CONEFLOWER), 1 GALLON	EACH	14		14						
★	K0030428	PERENNIAL PLANTS, SPOROBOLUS HETEROLEPIS, (PRAIRIE DROPSEED), 1 GALLON	EACH	65		65						
★	X0300635	PLANTERS	EACH	6		6						
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	50	50							
★	X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	FOOT	1,214								1,214
	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	107	107							
★	X0323553	ORNAMENTAL FENCE, WROUGHT IRON	FOOT	189		189						
★	X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1								1
★	X0325737	TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1					1			
★	X0444100	BENCHES	EACH	2		2						
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	51			51					
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	8			8					
★	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F SM12F	FOOT	1,214								1,214
	X8950200	REBUILD EXISTING HANDHOLE	EACH	3						3		
	XX000959	TRASH RECEPTACLE	EACH	3		3						
●	XX001490	GATE VALVES, 8"	EACH	6			6					
★	XX002982	GATE VALVES, 6"	EACH	6			6					



USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

SUMMARY OF QUANTITIES

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

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M -80031723	CONTRACT NO.	

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU	ITEP		STU				
					70% FED 30% STATE	80% FED 20% VILLAGE	100% VILLAGE	HARTS	TOUHY	WAUKEGAN	ECT	
					I000-2A	Y003	Y060	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	70% FED 30% STATE Y031-1F	
★	XX003032	GATE VALVES, 12"	EACH	17			17					
	XX003949	CONSTRUCTION STAKING	L SUM	1	1							
★	XX004810	VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2			2					
	XX005283	BRICK PAVER CROSSWALK	SQ FT	4,850		4,850						
	XX005565	REMOVE AND RESET BRICK PAVERS	SQ FT	2,200		2,200						
★	XX005660	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/C, TWISTED SHIELDED	FOOT	492				492				
★	XX005709	PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	3				3				
★	XX005710	PAINT NEW TRAFFIC SIGNAL POST	EACH	3				2		1		
★	XX005770	STRUCTURE TO BE ABANDONED	EACH	20	20							
★	XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	32		32						
★	XX007015	PERENNIAL PLANTS, PENNISETUM ALOPECUROIDES (FOUNTAIN GRASS), 1 GALLON	EACH	23		23						
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	61	61							
	Z0017700	DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	10	10							
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10	10							
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	49	49							
▲	Z0076600	TRAINEES	HOUR	2,000	2,000							
★	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	1,044				956		88		
★	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED COUNTDOWN TIMER	EACH	4				2		2		
★	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED COUNTDOWN TIMER	EACH	7				2	4	1		
★	XX005401	STEEL CASING PIPE 24" (BORED AND SACKED)	FOOT	120			120					
★	XX007816	GATE VALVES, 2"	EACH	1			1					
★	XX007817	BUFFALO BOX REMOVAL AND REPLACEMENT	EACH	10			10					
★	XX007818	PRESSURE CONNECTION, 16"x16"x12"	EACH	1			1					
★	XX007819	WATER SERVICE LINE, 1"	EACH	7			7					
★	XX007820	WATER SERVICE LINE, 1 1/2"	EACH	8			8					
★	XX007821	WATER SERVICE LINE, 2"	EACH	8			8					
★	XX007822	WATER SERVICE RECONNECTION (2" IN DIAMETER OR LESS)	EACH	5			5					
★	XX007823	WATER SERVICE RECONNECTION (4" IN DIAMETER OR GREATER)	EACH	4			4					
★	XX007824	BRICK PAVER ACCENT STRIP	SQ FT	9,500		9,500						
★	XX007825	ORNAMENTAL FENCE, WROUGHT IRON, SPECIAL	FOOT	151		151						
★	84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	2		2						
★	XX007826	POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE, 600V (XLP-TYPE USE), 3-1/C, NO. 6 AND 1/C, NO. 6 GROUND	FOOT	2,756		2,756						
★	XX007827	ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16-FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 50 WATT HPS	EACH	11		11						
★	XX007828	ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16-FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 150 WATT HPS	EACH	17		17						
★	XX007579	PAINT EXISTING LIGHTING UNIT	EACH	159		159						
★	X0323706	TRASH RECEPTACLE RELOCATION	EACH	2		2						
★	XX001186	PLANTER REMOVAL	EACH	3		3						
★	XX005186	HEMEROCALLIS 'STELLA D' ORO' (PERENNIAL DAYLILY), 1 GALLON	EACH	106		106						
★	K0030404	RUDBECKIA FULGIDA 'GOLDSTRUM' (PERENNIAL BLACK EYED SUSAN), 1 GALLON	EACH	64		64						
★	XX007829	GRASSES, PENNISETUM ALOPECUROIDES 'HAMELN' (HAMELN DWARF FOUNTAIN GRASS), 1 GALLON	EACH	81		81						
★	XX006102	LIA TRIS SPICATA (BLAZING STAR) 1 GALLON 'KOBOLD'	EACH	115		115						
★	XX007830	CLEAN AND PAINT EXISTING BENCHES	EACH	5		5						
	42400500	PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL	SQ FT	1,500	1,500							

▲ Y080



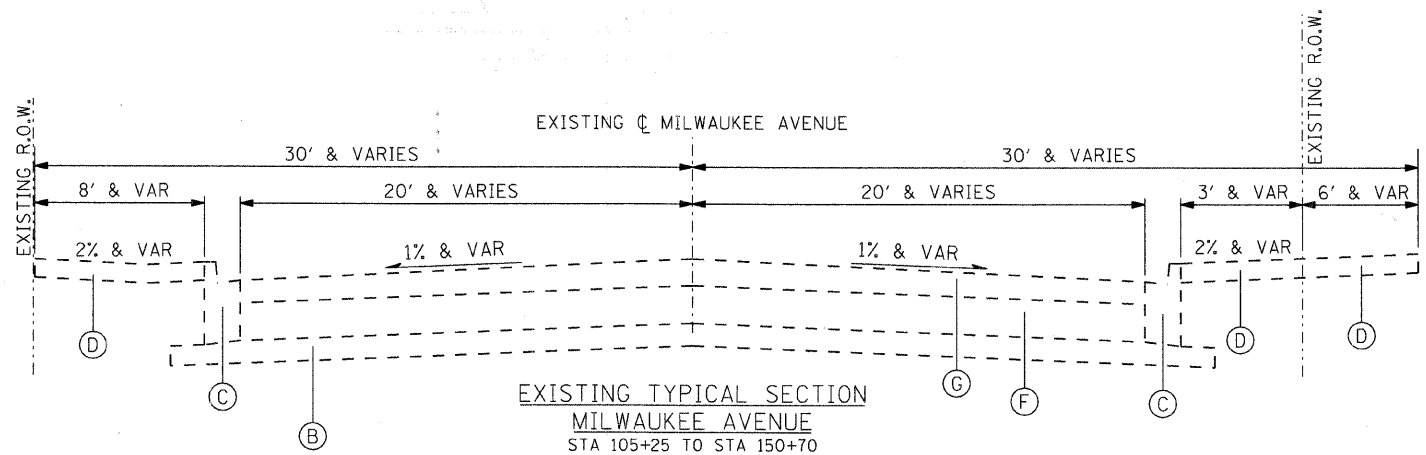
USER NAME = char tkc	DESIGNED - JPA	REVISED -
PLDT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLDT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

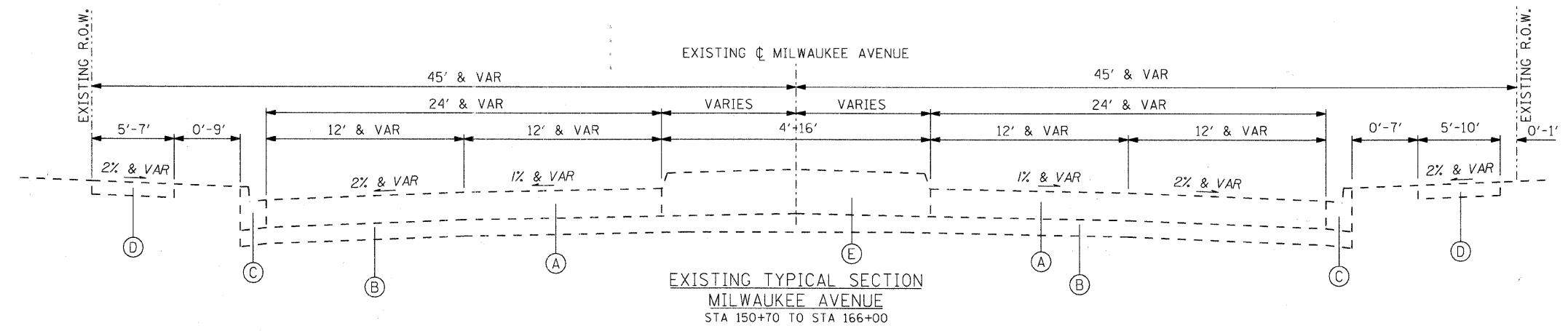
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 7
FED. ROAD DIST. NO. ILLINDIS		FED. AID PROJECT M -8003(723)		CONTRACT NO.



- EXISTING LEGEND**
- (A) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
 - (B) SUB-BASE GRANULAR MATERIAL
 - (C) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MOD) (VARIABLE HEIGHT)
 - (D) PORTLAND CEMENT CONCRETE SIDEWALK
 - (E) CONCRETE MEDIAN (VARIABLE HEIGHT)
 - (F) PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"
 - (G) ASPHALT OVERLAYS, VARIES 3" TO 6"



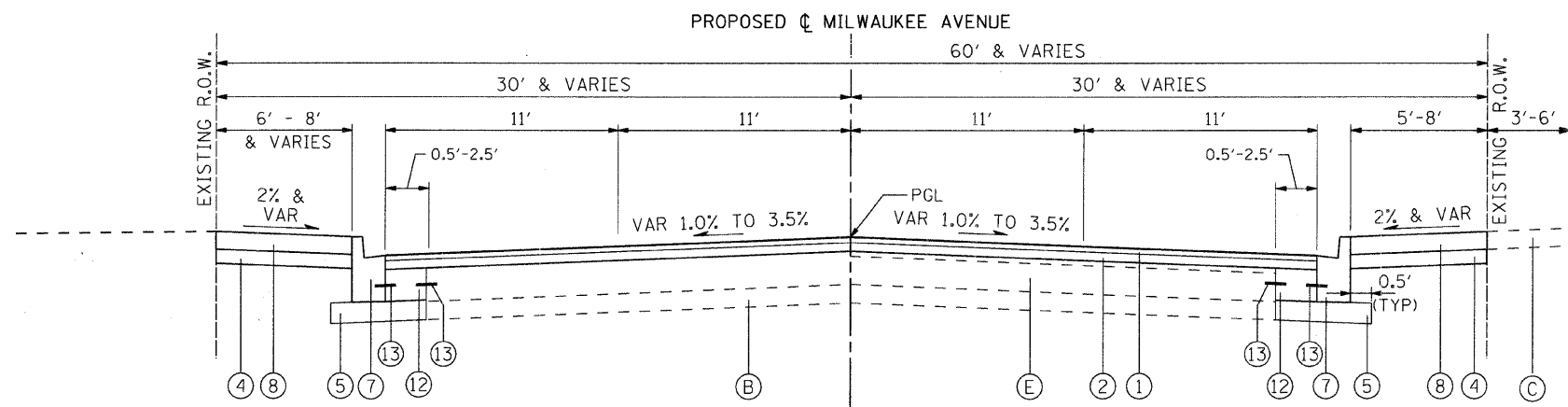
USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF MILES

EXISTING TYPICAL SECTIONS MILWAUKEE AVENUE			
SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA. _____	TO STA. _____

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 8
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M-80031723	CONTRACT NO. 08-00107-00-PV	

MILWAUKEE AVENUE IMPROVEMENTS
08/2008
080251-1yp-01.dgn



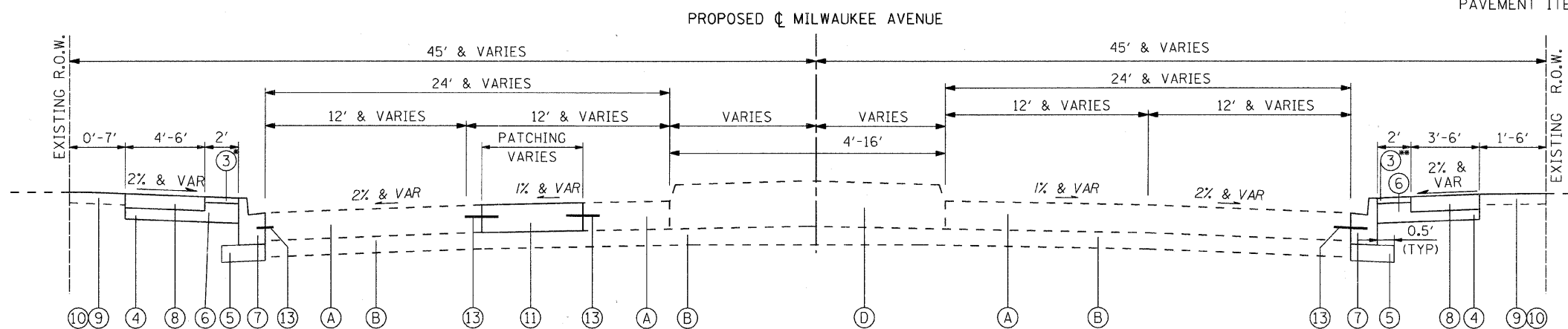
PROPOSED TYPICAL SECTION
MILWAUKEE AVENUE
STA 105+25 TO STA 150+70

EXISTING LEGEND

- (A) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (B) SUB-BASE GRANULAR MATERIAL
- (C) PORTLAND CEMENT CONC SIDEWALK
- (D) CONCRETE MEDIAN (VARIABLE HEIGHT)
- (E) PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"

PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
- (3) BRICK PAVER ACCENT STRIP (SEE LANDSCAPE PLANS FOR DETAILS)
- (4) SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- (5) SUBBASE GRANULAR MATERIAL, TYPE B, 6"
- (6) SUBBASE GRANULAR MATERIAL, TYPE B, 7"
- (7) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12, SPECIAL (VARIABLE HEIGHT)
- (8) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (9) TOPSOIL FURNISH AND PLACE, 4"
- (10) SODDING
- (11) CLASS B PATCHES, 9"
- (12) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (13) TIE BAR PER STATE STANDARDS (INCLUDED IN THE COST OF PAVEMENT ITEM BEING CONSTRUCTED)



PROPOSED TYPICAL SECTION
MILWAUKEE AVENUE
STA 150+70 TO STA 166+00

- * BRICK PAVER ACCENT STRIP STA 150+71.31 TO STA 159+48.00
- ** BRICK PAVER ACCENT STRIP STA 150+73.57 TO STA 159+00.00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AC TYPE	AIR VOIDS
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	SBS/SBR PG 70-22	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", IL-9.5MM N90	SBS/SBR PG 76-22	4% @ 90 GYR.

- NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE HMA SURFACE MIXTURE IS 112 LB/SY PER INCH THICKNESS.
 2. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIXTURE SHALL BE PG58-22



USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PROPOSED TYPICAL SECTIONS MILWAUKEE AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT M-8003(723)	

STATION	STAGE 1			STAGE 2		
	REM & DISP MATL UNS	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	REM & DISP MATL UNS	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
105+00.00	0.0	0.0		0.0	0.0	
105+25.00	3.3	1.0	2.4	5.4	1.3	4.0
105+50.00	7.3	1.9	5.4	8.7	2.3	6.4
105+53.51	0.6	0.1	0.4	1.0	0.3	0.8
105+85.00	1.7	0.9	0.8	5.0	1.2	3.8
106+00.00	2.9	1.0	2.0	0.8	0.4	0.4
106+28.13	8.6	1.9	6.7	5.5	1.8	3.7
106+50.00	6.4	1.3	5.1	6.7	1.5	5.2
106+98.12	11.8	2.5	9.3	14.1	2.9	11.2
107+00.00	0.6	0.1	0.5	0.5	0.1	0.4
107+28.00	11.4	2.2	9.2	9.0	1.9	7.2
107+50.00	7.0	1.4	5.5	9.0	1.8	7.2
107+88.19	11.6	2.7	8.9	12.1	2.5	9.6
108+00.00	4.7	1.0	3.7	3.6	0.8	2.8
108+30.93	9.7	2.1	7.7	12.2	2.6	9.6
108+47.86	3.7	0.9	2.8	5.3	1.1	4.2
108+50.00	0.5	0.1	0.4	0.5	0.1	0.4
108+68.74	4.8	1.4	3.4	4.4	1.2	3.2
109+00.00	8.2	3.0	5.2	8.0	2.3	5.7
109+50.00	13.2	4.9	8.3	13.1	4.8	8.2
110+00.00	14.5	4.0	10.6	13.2	4.9	8.3
110+38.87	12.7	3.4	9.3	11.3	3.1	8.2
110+50.00	3.8	1.1	2.7	3.6	1.0	2.7
110+96.10	15.9	4.9	11.0	15.6	4.4	11.2
111+00.00	1.2	0.4	0.9	1.3	0.4	0.9
111+50.00	14.4	4.3	10.1	15.9	4.8	11.1
112+00.00	13.6	3.9	9.9	14.4	4.3	10.1
112+50.00	14.1	3.7	10.4	13.8	3.9	9.9
113+00.00	15.2	4.4	10.7	14.1	3.7	10.4
113+50.00	15.9	4.8	11.1	15.2	4.4	10.7
114+00.00	15.9	4.4	11.5	15.9	4.8	11.1
114+14.83	4.9	1.5	3.5	4.7	1.3	3.4
114+50.00	12.1	4.0	8.1	11.7	3.5	8.3
115+00.00	16.9	5.7	11.1	17.2	5.6	11.6
115+50.00	16.7	5.6	11.0	16.9	5.7	11.1
115+56.86	2.0	0.7	1.4	2.3	0.8	1.5
116+00.00	11.0	3.5	7.5	12.7	4.2	8.5
116+21.21	5.6	1.7	3.8	5.4	1.7	3.7
116+50.00	8.1	2.5	5.5	7.6	2.3	5.2
116+77.72	8.2	2.7	5.5	7.6	2.4	5.3
117+00.00	6.3	2.0	4.2	6.6	2.1	4.4
117+50.00	13.6	4.4	9.3	14.1	4.5	9.5
118+00.00	13.5	4.4	9.2	13.6	4.4	9.3
118+50.00	13.1	4.2	8.9	13.5	4.4	9.2
119+00.00	12.1	3.8	8.3	13.1	4.2	8.9
119+50.00	11.1	3.7	7.4	12.1	3.8	8.3
120+00.00	10.9	3.8	7.1	11.1	3.7	7.4
120+39.88	8.6	2.8	5.8	8.7	3.0	5.7
120+50.00	2.2	0.7	1.5	2.2	0.7	1.5
121+00.00	11.4	3.6	7.8	11.1	3.6	7.5
121+50.00	12.1	3.9	8.2	11.4	3.6	7.8
122+00.00	12.0	3.8	8.2	12.1	3.9	8.2
122+35.27	8.3	2.5	5.7	8.5	2.7	5.8
122+50.00	3.7	1.2	2.5	3.8	1.1	2.4
123+00.00	12.5	3.8	8.7	12.7	4.1	8.6
123+50.00	12.0	3.5	8.5	12.5	3.8	8.7
124+00.00	12.9	3.9	9.0	12.0	3.5	8.5
124+50.00	14.4	3.3	11.0	12.9	3.9	9.0
125+00.00	15.2	2.7	12.5	14.1	3.3	11.0
125+19.99	6.2	1.1	5.1	6.1	1.1	5.0
125+50.00	7.9	1.9	6.1	9.3	1.7	7.6
126+00.00	11.6	3.8	7.8	13.2	3.1	10.1
126+32.76	8.3	2.7	5.5	7.6	2.5	5.1
126+50.00	4.3	1.4	2.9	4.3	1.4	2.9
127+00.00	11.3	3.7	7.6	12.4	4.1	8.3
127+43.57	9.4	3.1	6.3	9.8	3.2	6.6
127+50.00	1.4	0.5	0.9	1.4	0.5	0.9
128+00.00	11.3	4.3	7.0	11.1	3.9	7.2
128+15.50	3.5	1.3	2.2	3.5	1.3	2.2
128+50.00	7.6	2.6	5.0	7.8	2.8	5.0
128+90.31	8.6	2.8	5.8	8.9	3.0	5.9
129+00.00	2.0	0.6	1.4	2.1	0.7	1.4
129+50.00	11.0	3.7	7.3	10.5	3.2	7.2
130+00.00	11.6	4.3	7.3	11.0	3.7	7.3
130+50.00	11.0	4.1	6.9	11.0	4.3	7.3
131+00.00	10.6	3.8	6.9	11.0	4.1	6.9
131+25.00	5.5	1.9	3.6	5.3	1.9	3.4
131+50.00	5.7	2.0	3.7	5.8	1.9	3.6
131+67.00	3.9	1.4	2.6	3.9	1.4	2.5
131+95.18	6.6	2.2	4.3	6.8	2.3	4.2
132+00.00	1.1	0.4	0.7	1.1	0.4	0.7
132+30.00	7.0	2.3	4.7	6.9	2.2	4.7

STATION	STAGE 1			STAGE 2		
	REM & DISP MATL UNS	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	REM & DISP MATL UNS	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
132+50.00	5.0	1.7	3.3	4.7	1.5	3.1
132+54.76	1.2	0.4	0.8	1.2	0.4	0.8
133+00.00	10.0	3.6	6.4	11.1	3.8	7.3
133+50.00	10.9	4.0	6.9	11.0	4.0	7.0
133+64.50	3.7	1.2	2.4	3.2	1.2	2.0
134+00.00	9.9	3.1	6.8	9.0	3.0	6.0
134+12.54	3.6	1.0	2.5	3.5	1.1	2.4
134+50.00	11.2	3.1	8.2	10.6	3.1	7.5
134+68.20	6.2	1.4	4.8	5.5	1.5	4.0
135+00.00	11.6	2.5	9.1	10.9	2.5	8.4
135+42.02	14.1	3.5	10.6	15.3	3.3	12.0
135+50.00	2.1	0.6	1.5	2.7	0.7	2.0
136+00.00	11.3	3.7	7.6	13.4	4.0	9.4
136+50.00	11.6	3.8	7.8	11.3	3.7	7.6
136+66.03	3.8	1.2	2.6	3.7	1.2	2.5
137+00.00	8.5	2.6	5.9	8.1	2.6	5.5
137+26.00	6.7	2.0	4.7	6.5	2.0	4.5
137+50.00	6.1	1.9	4.3	6.2	1.9	4.4
138+00.00	12.8	3.9	8.9	12.8	3.9	8.9
138+50.00	12.3	3.8	8.5	12.8	3.9	8.9
139+00.00	11.9	4.1	7.8	12.3	3.8	8.5
139+50.00	11.7	4.1	7.6	11.9	4.1	7.8
139+75.00	5.1	1.9	3.3	5.8	2.0	3.8
140+00.00	5.5	1.8	3.7	5.1	1.9	3.3
140+50.00	13.0	3.4	9.5	10.9	3.5	7.4
141+00.00	13.9	3.6	10.3	13.0	3.4	9.5
141+50.00	14.3	3.7	10.6	13.9	3.6	10.3
141+55.90	1.8	0.5	1.3	1.7	0.4	1.2
142+00.00	14.7	3.7	11.0	13.6	3.6	10.0
142+31.69	10.3	2.6	7.7	10.6	2.6	7.9
142+50.00	5.7	1.5	4.2	5.9	1.5	4.4
142+88.93	12.0	3.1	8.9	12.2	3.2	8.9
143+00.00	3.2	0.7	2.4	3.4	0.9	2.5
143+50.00	13.6	2.8	10.8	14.4	3.3	11.0
143+54.80	1.6	0.3	1.3	1.3	0.3	1.0
143+86.09	12.3	2.4	9.9	10.5	2.0	8.5
144+00.00	5.1	1.1	4.0	5.5	1.1	4.4
144+50.00	15.4	3.1	12.2	18.2	3.8	14.4
144+87.74	10.2	2.0	8.2	11.6	2.4	9.2
145+00.00	3.5	0.8	2.7	3.3	0.6	2.7
145+50.00	7.6	2.1	5.5	14.3	3.4	10.8
146+00.00	0.0	0.0	0.0	7.6	2.1	5.5
146+19.49	3.7	0.9	2.9	0.0	0.0	0.0
146+50.00	12.1	2.8	9.3	5.8	1.4	4.5
147+00.00	20.0	5.0	15.0	19.9	4.6	15.3
147+50.00	18.0	5.4	12.6	20.0	5.0	15.0
148+00.00	16.6	5.6	11.0	18.0	5.4	12.6
148+04.22	1.3	0.4	0.9	1.4	0.5	0.9
148+50.00	11.5	3.4	8.1	13.8	4.5	9.3
148+74.40	5.0	1.9	3.1	8.1	1.8	4.3
149+00.00	4.4	2.6	1.8	5.3	2.0	3.3
149+50.00	7.6	6.3	1.3	8.5	5.1	3.4
149+85.88	5.6	4.7	0.9	5.4	4.5	0.9
150+00.00	2.7	1.6	1.1	2.2	1.9	0.3
150+50.00	10.7	4.9	5.8	9.5	5.6	4.0
150+58.34	0.7	0.3	0.4	0.7	0.3	0.4
150+70.75	2.9	0.8	2.1	3.8	1.6	2.2
151+00.00	3.8	0.1	3.7	4.9	1.4	3.5
151+50.00	6.9	0.2	6.8	6.5	0.2	6.3
152+00.00	7.0	0.2	6.9	6.9	0.2	6.8
152+50.00	7.4	0.2	7.2	7.0	0.2	6.9
152+67.02	2.7	0.1	2.6	2.5	0.1	2.5
153+00.00	5.9	0.1	5.8	5.3	0.1	5.1
153+50.00	13.1	0.2	12.9	9.0	0.2	8.8
154+00.00	8.3	0.1	8.2	13.1	0.2	12.9
154+50.00	21.9	0.1	21.9	8.3	0.1	8.2
155+00.00	27.8	0.2	27.6	21.9	0.1	21.9
155+50.00	10.4	0.2	10.2	27.8	0.2	27.6
156+00.00	7.6	0.2	7.4	10.4	0.2	10.2
156+50.00	7.4	0.2	7.2	7.6	0.2	7.4
156+78.97	4.6	0.1	4.5	4.3	0.1	4.2
157+00.00	3.8	0.1	3.7	3.3	0.1	3.3
157+41.14	8.8	0.2	8.6	7.4	0.2	7.2
157+50.00	1.8	0.0	1.8	1.9	0.0	1.9
158+00.00	8.8	0.1	8.7	10.2	0.2	10.0
158+21.29	3.7	0.0	3.6	3.7	0.0	3.7
158+50.00	6.1	0.1	6.0	4.9	0.1	4.9
159+00.00	8.8	0.1	8.7	10.6	0.2	10.4
159+50.00	6.7	0.0	6.7	8.8	0.1	8.7
159+67.14	2.7	0.2	2.6	2.3	0.0	2.3
160+00.00	5.2	0.6	4.6	6.2	0.3	4.9
160+50.00	6.1	0.9	5.2	7.9	0.9	6.9



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USER NAME = charlke	DESIGNED - JPA	REVISED
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED
	DATE - 12/16/08	REVISED

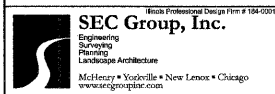
VILLAGE OF NILES

EARTHWORK TABLE

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 10
CONTRACT NO. 08-00107-00-01				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M	8003723

STATION	STAGE 1			STAGE 2		
	REM & DISP UNS MATL	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	REM & DISP UNS MATL	FURNISHED EXC	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
160+65.46	2.0	0.3	1.6	1.9	0.3	1.6
160+84.66	3.2	0.5	2.7	2.5	0.4	2.0
161+00.00	3.5	0.2	3.3	2.6	0.4	2.2
161+47.78	14.9	0.0	14.9	10.8	0.6	10.2
161+50.00	0.7	0.0	0.7	0.7	0.0	0.7
162+00.00	15.3	0.0	15.3	16.3	0.0	16.3
162+03.56	1.0	0.0	1.0	1.1	0.0	1.1
162+50.00	14.9	0.0	14.9	13.5	0.0	13.5
162+79.74	11.1	0.0	11.1	9.5	0.0	9.5
162+95.99	6.1	0.0	6.1	6.0	0.0	6.0
163+00.00	1.4	0.0	1.4	1.5	0.0	1.5
163+50.00	14.0	0.0	14.0	17.0	0.0	17.0
164+00.00	11.7	0.6	11.0	14.0	0.0	14.0
164+03.68	0.8	0.0	0.7	0.9	0.0	0.8
164+32.20	5.8	0.0	5.8	5.9	0.4	5.5
164+50.00	3.6	0.0	3.6	3.6	0.0	3.6
164+85.02	6.7	0.0	6.7	7.0	0.0	7.0
165+00.00	3.0	0.0	3.0	2.9	0.0	2.9
165+50.00	9.4	0.0	9.4	9.9	0.0	9.9
165+61.36	0.9	0.0	0.9	2.1	0.0	2.1
166+00.00	0.0	0.0	0.0	3.1	0.0	3.1
TOTALS	1518.8	366.1	1152.7	1547.7	371.5	1176.2
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)

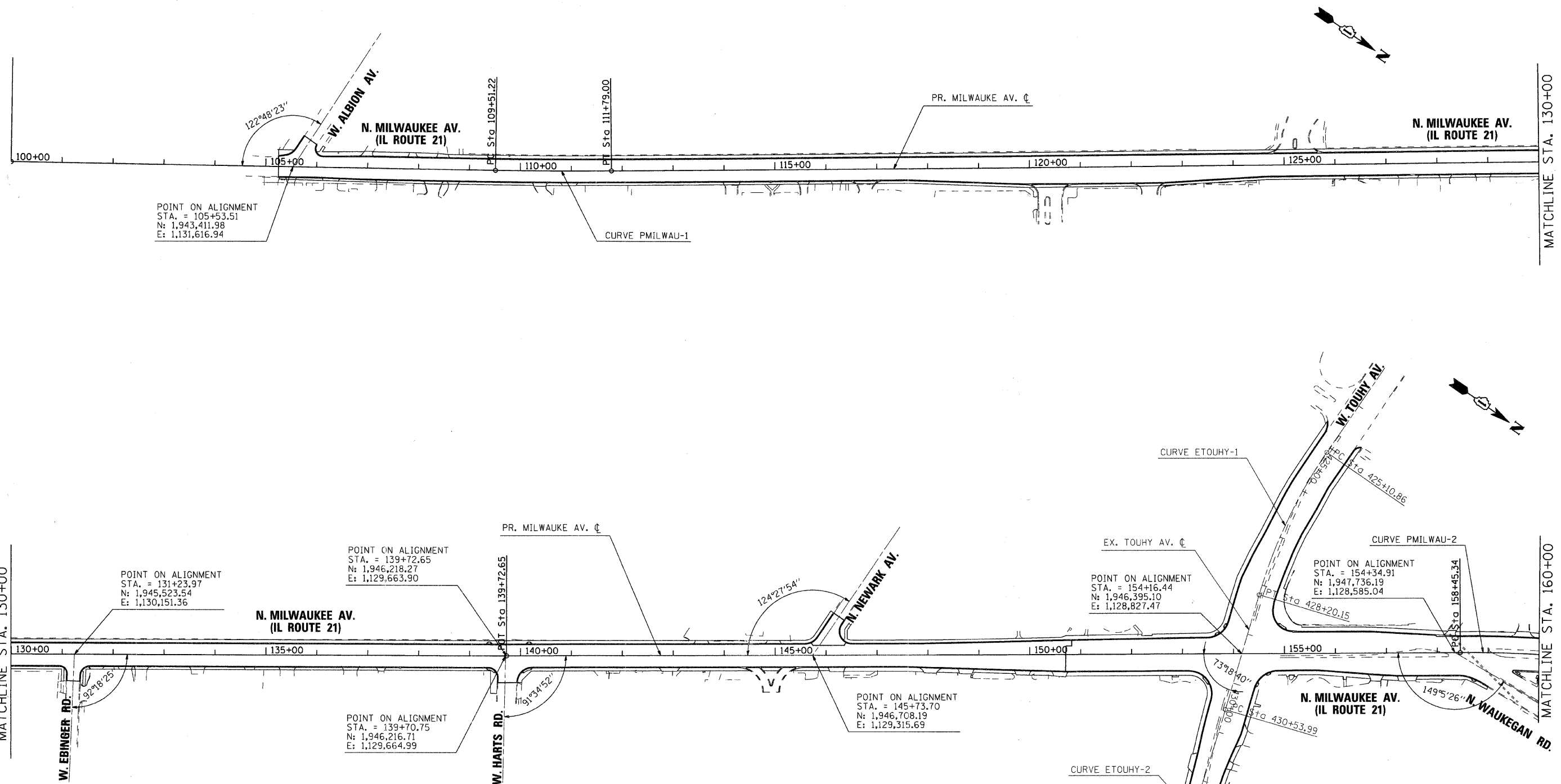


USER NAME = charlke	DESIGNED - JPA	REVISED
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED
	DATE - 12/16/08	REVISED

VILLAGE OF NILES

EARTHWORK TABLE			
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	11
CONTRACT NO. 0809				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M - 8003(723)				



CURVE	PMILWAU-1	PMILWAU-2	ETOUHY-1	ETOUHY-2
Δ	1° 25' 07" (LT)	4° 33' 40" (RT)	18° 06' 06" (LT)	3° 31' 48" (RT)
D	0° 37' 22"	2° 17' 30"	5° 51' 09"	1° 20' 13"
R	9,200.00'	2,500.30'	979.40'	4,285.71'
T	113.90'	99.57'	156.01'	132.06'
L	227.78'	199.04'	309.29'	264.04'
E	0.70'	1.98'	12.35'	2.03'
e	N/A	N/A	N/A	N/A
T.R.	N/A	N/A	N/A	N/A
S.E. RUN	N/A	N/A	N/A	N/A
P.C. STA.	109+51.22	158+45.34	425+10.86	430+53.99
N	1,943,743.35	1,947,744.69	1,947,304.93	1,947,431.69
E	1,131,397.00	1,128,579.00	1,128,410.23	1,128,935.48
PI STA.	110+65.12	159+44.91	428+20.15	431+86.05
N	1,943,838.17	1,947,825.85	1,947,306.60	1,947,474.06
E	1,131,333.91	1,128,521.31	1,128,566.24	1,129,060.56
P.T. STA.	111+79.00	160+44.38	426+66.87	433+18.03
N	1,943,931.41	1,947,911.34	1,947,356.66	1,947,508.65
E	1,131,268.49	1,128,470.26	1,128,714.00	1,129,188.01

- BENCHMARKS**
- BM #1: VILLAGE OF NILES MONUMENT NO. 1 - SURVEY MONUMENT LOCATED APPROXIMATELY 137 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 17 FEET NORTH/NORTHWEST OF THE CENTERLINE OF EBINGER STREET. ELEVATION = 619.93
 - BM #2: CUT CROSS IN CONCRETE SIDEWALK APPROXIMATELY 24 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 51 FEET NORTH OF THE CENTERLINE OF WEST ALBIAN AVENUE. ELEVATION = 622.53
 - BM #3: CUT CROSS IN CONCRETE SIDEWALK APPROXIMATELY 27 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 52 FEET SOUTH OF THE CENTERLINE OF BIRCHWOOD AVENUE. ELEVATION = 641.62

USER NAME = chartke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 100'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

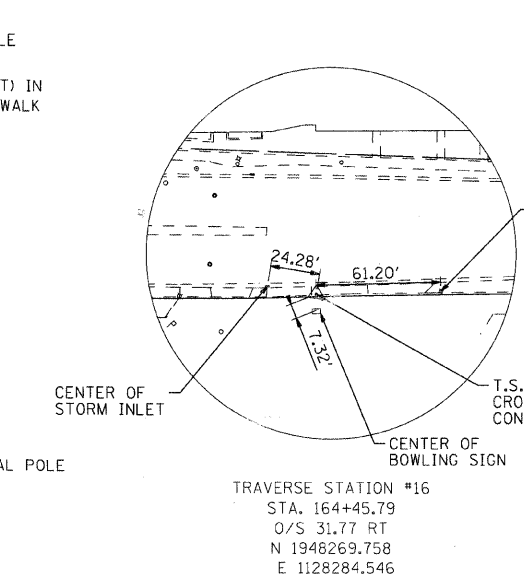
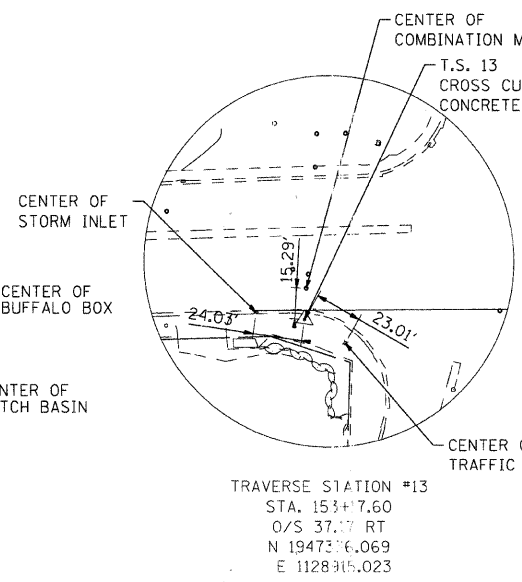
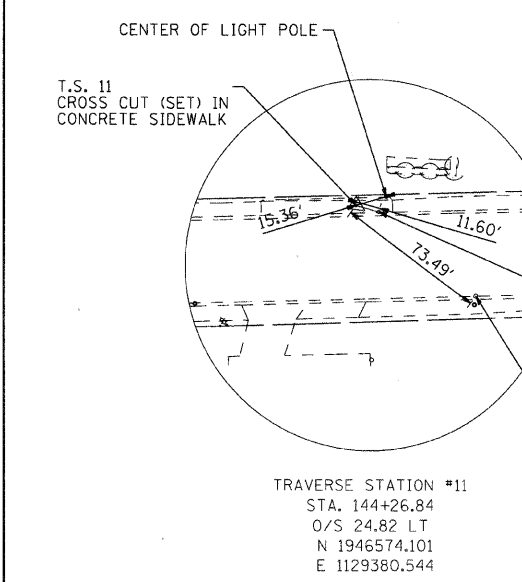
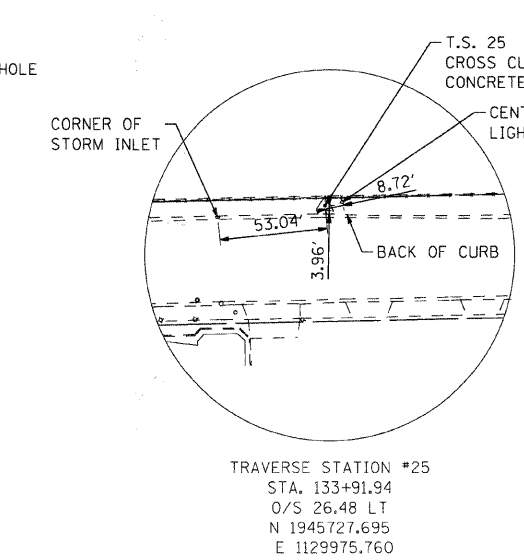
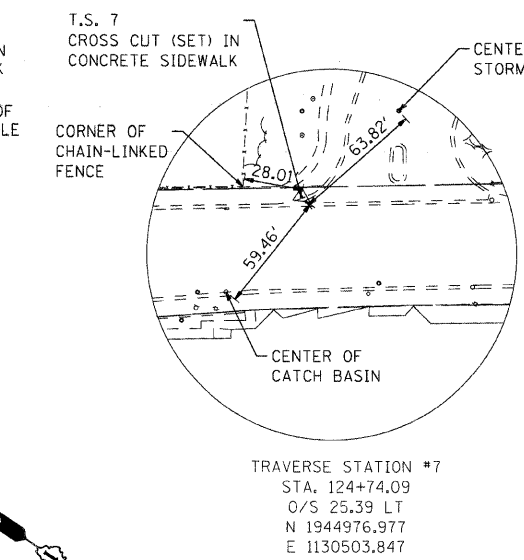
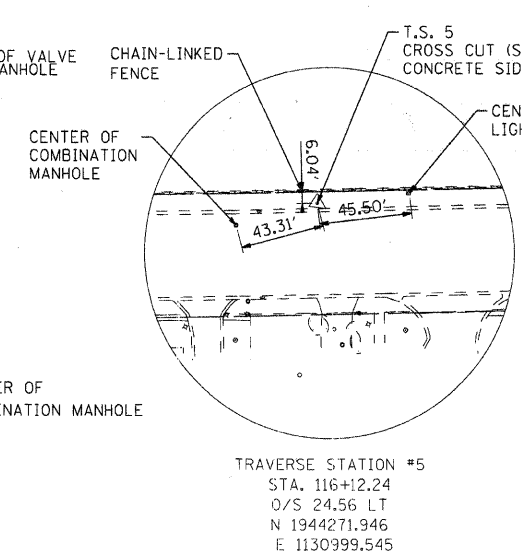
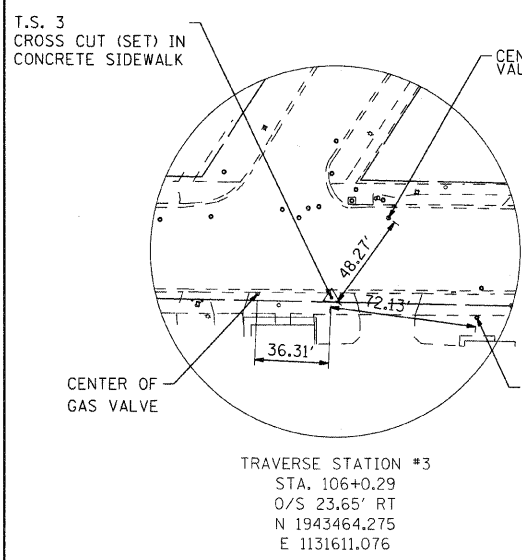
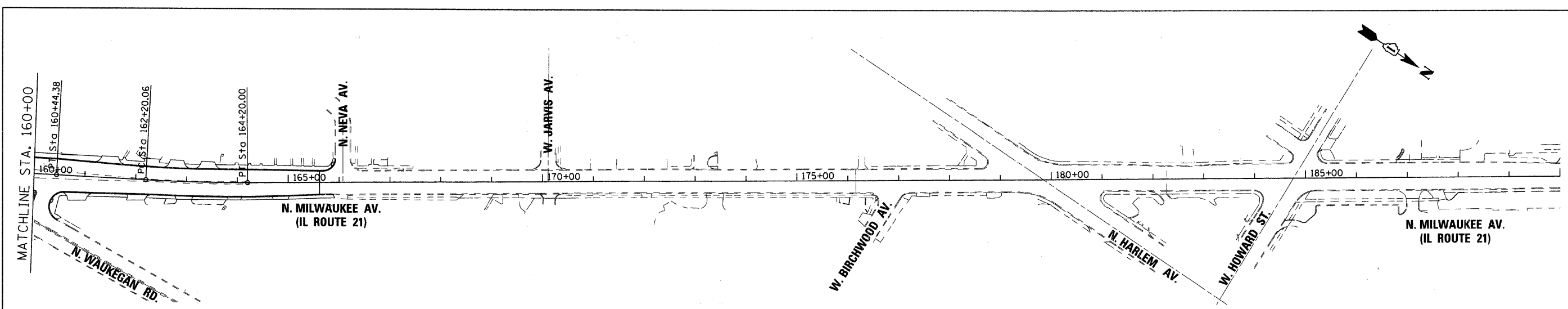
VILLAGE OF NILES

ALIGNMENT, TIE & BENCHMARKS MILWAUKEE AVENUE

SCALE: 1" = 100' SHEET NO. 1 OF 2 SHEETS STA. BEGIN TO STA. 160+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-RV	COOK	169	12
CONTRACT NO. 08031723				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M - 80031723				

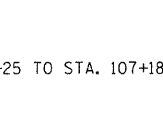
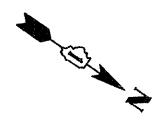
MILWAUKEE AVENUE IMPROVEMENTS
06/23/03
06/23/03-Hr-01.dgn



CURVE PMILWAU-2	CURVE PMILWAU-3
$\Delta = 4^\circ 33' 40''$ (RT)	$\Delta = 3^\circ 23' 00''$ (LT)
$D = 2^\circ 17' 30''$	$D = 1^\circ 41' 32''$
$R = 2,500.30'$	$R = 3,385.79'$
$T = 99.57'$	$T = 100.00'$
$L = 199.04'$	$L = 199.93'$
$E = 1.98'$	$E = 1.48'$
$\theta = N/A$	$\theta = N/A$
$T.R. = N/A$	$T.R. = N/A$
$S.E. RUN = N/A$	$S.E. RUN = N/A$
$P.C. STA = 158+45.34$	$P.C. STA = 162+20.06$
$N = 1,947,744.69$	$N = 1,948,062.18$
$E = 1,128,579.00$	$E = 1,128,380.19$
$PI STA = 159+44.91$	$PI STA = 163+00.06$
$N = 1,947,825.85$	$N = 1,948,148.04$
$E = 1,128,521.31$	$E = 1,128,328.93$
$P.T. STA = 160+44.38$	$P.T. STA = 164+20.00$
$N = 1,947,911.34$	$N = 1,948,230.72$
$E = 1,128,470.26$	$E = 1,128,272.69$

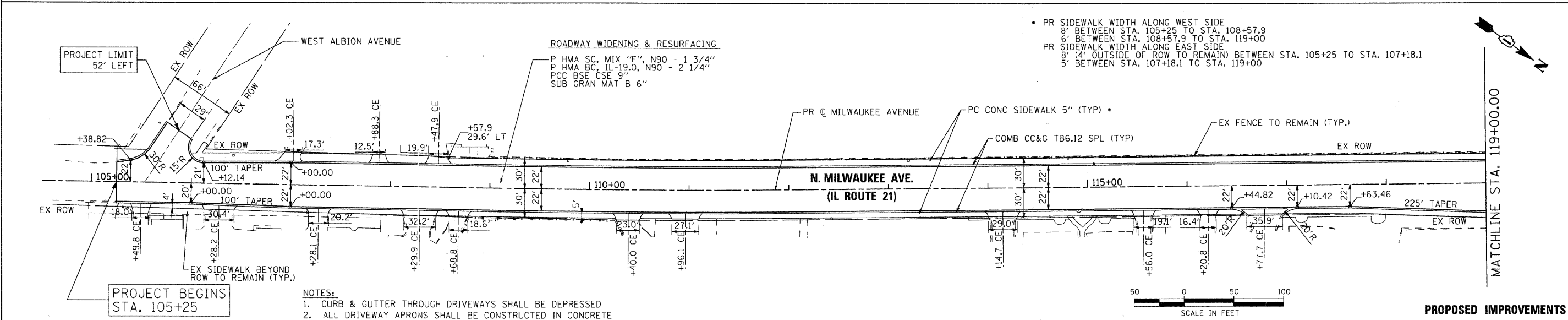
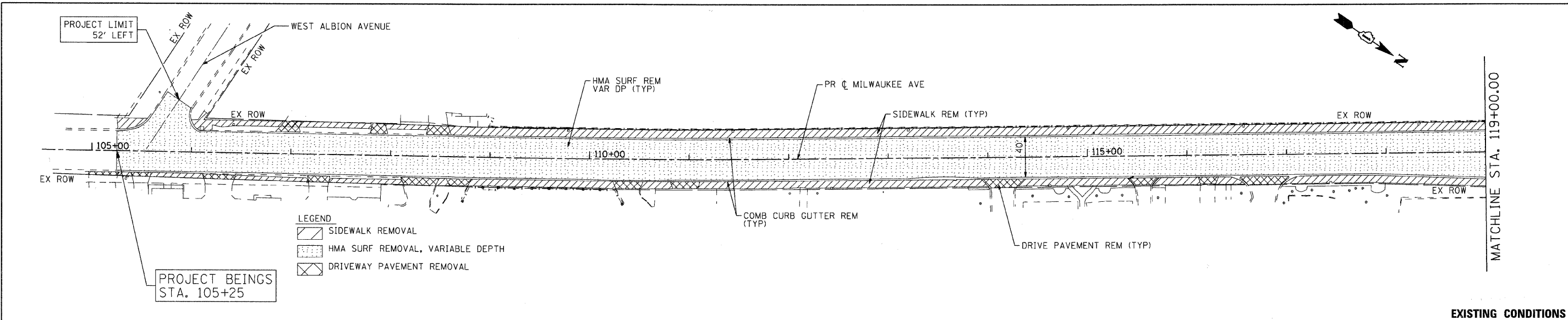
USER NAME = charlke PLOT SCALE = 1" = 100' PLOT DATE = 12/22/2008	DESIGNED - JPA DRAWN - JPA CHECKED - JLP DATE - 12/16/08	REVISED - REVISED - REVISED - REVISED -	VILLAGE OF NILES ALIGNMENT, TIE & BENCHMARKS MILWAUKEE AVENUE	F.A.U. RTE. 3513 SECTION 08-00107-00-PV COUNTY COOK TOTAL SHEETS 169 SHEET NO. 13 CONTRACT NO. 63054
	SCALE: 1" = 100' SHEET NO. 1 OF 2 SHEETS STA. 160+00 TO STA. END			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)

MILWAUKEE AVENUE IMPROVEMENTS
 06/25/11-11-02.dgn



DATE	BY	BY	DATE

DATE	BY	DATE	BY



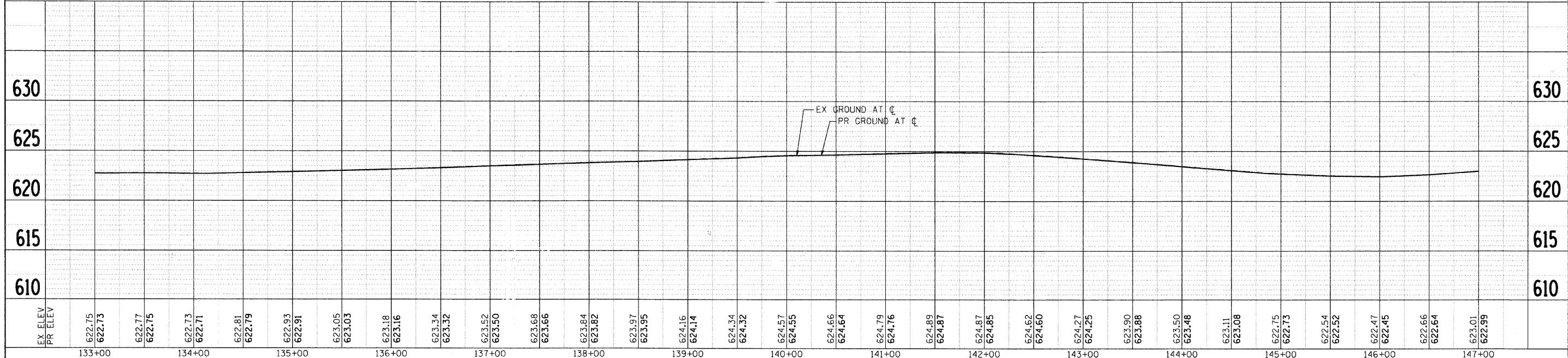
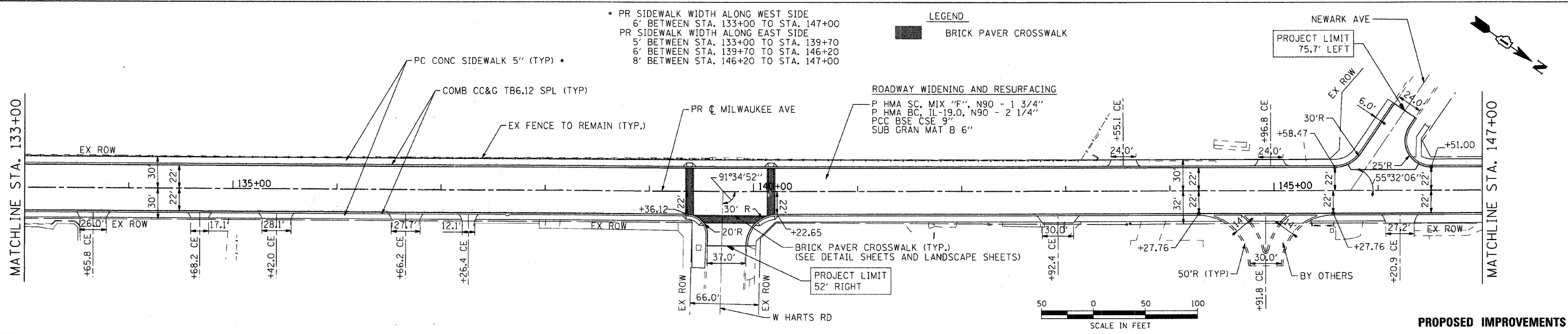
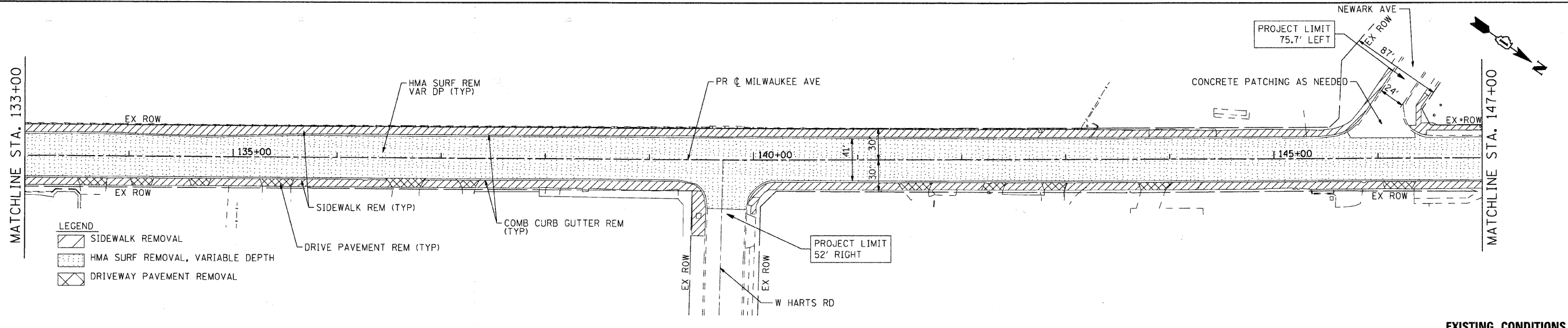
- NOTES:
 1. CURB & GUTTER THROUGH DRIVEWAYS SHALL BE DEPRESSED
 2. ALL DRIVEWAY APRONS SHALL BE CONSTRUCTED IN CONCRETE

EX ELEV	622.38		622.61		622.59		622.82		622.80		622.85		622.83		622.87		622.85		622.84		622.82		622.74		622.72		622.66		622.64		622.60		622.58		622.59		622.57		622.62		622.60		622.51		622.49		622.48		622.46		622.60		622.58		622.76		622.74		622.92		622.90		622.86		622.84		622.85		622.83		622.85		622.83		622.81		622.79		622.77		622.76		622.74		622.71		622.69		622.72		622.70		622.68		622.66		622.64		622.62		622.63		622.61		622.56		622.54		622.58		622.55																																							
	PR ELEV	622.38		622.61		622.59		622.82		622.80		622.85		622.83		622.87		622.85		622.84		622.82		622.74		622.72		622.66		622.64		622.60		622.58		622.59		622.57		622.62		622.60		622.51		622.49		622.48		622.46		622.60		622.58		622.76		622.74		622.92		622.90		622.86		622.84		622.85		622.83		622.85		622.83		622.81		622.79		622.77		622.76		622.74		622.71		622.69		622.72		622.70		622.68		622.66		622.64		622.62		622.63		622.61		622.56		622.54		622.58		622.55																																						
STATION	105+00	105+10	105+20	105+30	105+40	105+50	105+60	105+70	105+80	105+90	106+00	106+10	106+20	106+30	106+40	106+50	106+60	106+70	106+80	106+90	107+00	107+10	107+20	107+30	107+40	107+50	107+60	107+70	107+80	107+90	108+00	108+10	108+20	108+30	108+40	108+50	108+60	108+70	108+80	108+90	109+00	109+10	109+20	109+30	109+40	109+50	109+60	109+70	109+80	109+90	110+00	110+10	110+20	110+30	110+40	110+50	110+60	110+70	110+80	110+90	111+00	111+10	111+20	111+30	111+40	111+50	111+60	111+70	111+80	111+90	112+00	112+10	112+20	112+30	112+40	112+50	112+60	112+70	112+80	112+90	113+00	113+10	113+20	113+30	113+40	113+50	113+60	113+70	113+80	113+90	114+00	114+10	114+20	114+30	114+40	114+50	114+60	114+70	114+80	114+90	115+00	115+10	115+20	115+30	115+40	115+50	115+60	115+70	115+80	115+90	116+00	116+10	116+20	116+30	116+40	116+50	116+60	116+70	116+80	116+90	117+00	117+10	117+20	117+30	117+40	117+50	117+60	117+70	117+80	117+90	118+00	118+10	118+20	118+30	118+40	118+50	118+60	118+70	118+80	118+90	119+00	119+10	119+20	119+30	119+40	119+50	119+60	119+70	119+80	119+90

SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroup.com	USER NAME = charlke	DESIGNED - JPA	REVISED	VILLAGE OF NILES ROADWAY PLAN AND PROFILE N. MILWAUKEE AVE (IL ROUTE 21) SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. BEGIN TO STA. 119+00	F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 14
	PLOT SCALE = 1" = 50'	CHECKED - JLP	REVISED		CONTRACT NO. 3513-08-00107-00-PV				
	PLOT DATE = 12/22/2008	DATE = 12/16/08	REVISED		FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT M-80031723				

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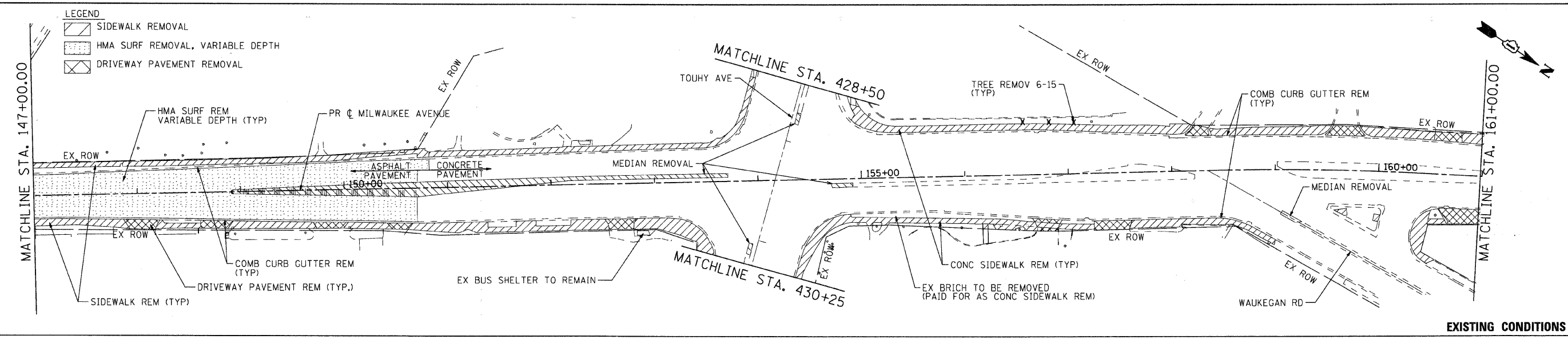
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SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com	USER NAME = chertke	DESIGNED - JPA	REVISED -	VILLAGE OF NILES ROADWAY PLAN AND PROFILE N. MILWAUKEE AVE (IL ROUTE 21)	F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 16	
	PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -		SCALE: 1" = 50'	SHEET NO. 3 OF 6 SHEETS	STA. 133+00 TO STA. 147+00	CONTRACT NO. 030000		
	PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -		DATE - 12/16/08	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				

MILWAUKEE AVENUE IMPROVEMENTS
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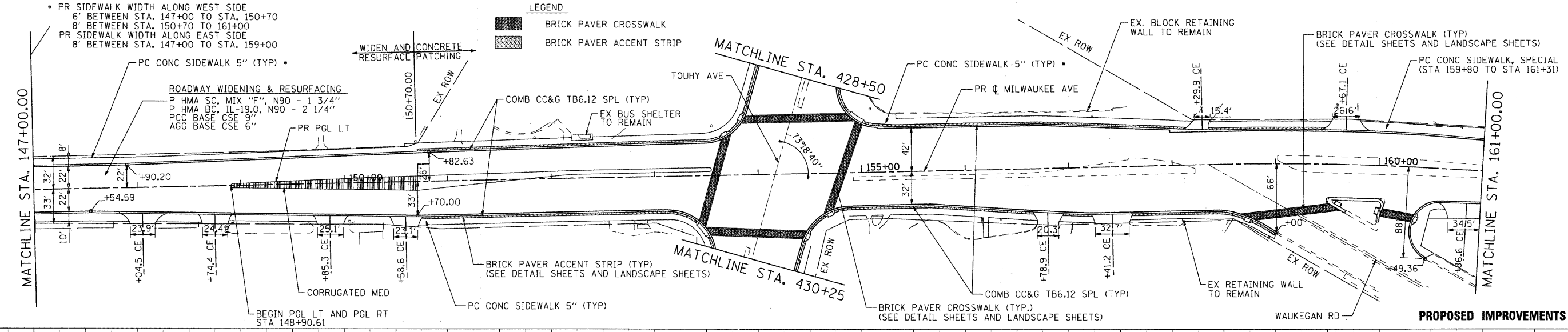
LEGEND
 [Hatched Box] SIDEWALK REMOVAL
 [Dotted Box] HMA SURF REMOVAL, VARIABLE DEPTH
 [Cross-hatched Box] DRIVEWAY PAVEMENT REMOVAL



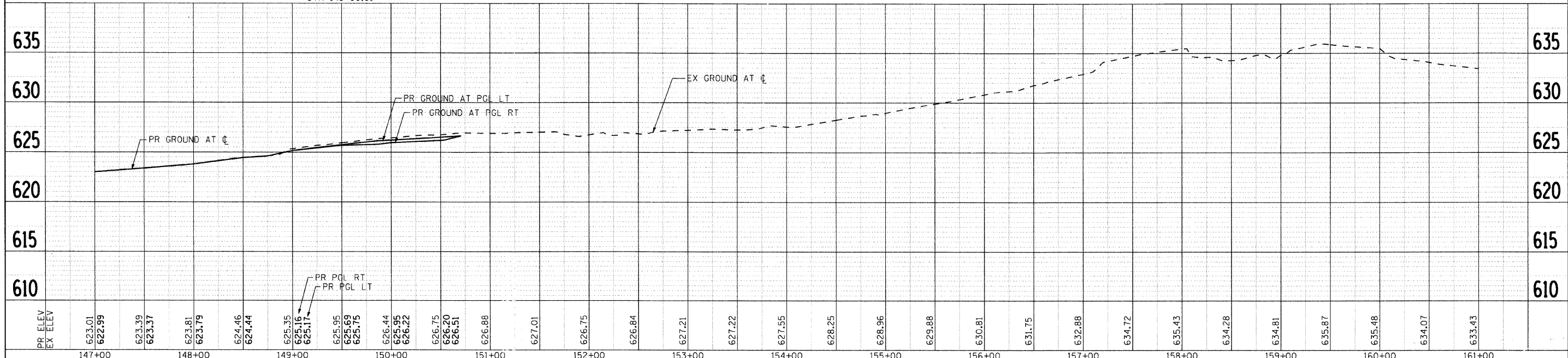
EXISTING CONDITIONS

• PR SIDEWALK WIDTH ALONG WEST SIDE
 6' BETWEEN STA. 147+00 TO STA. 150+70
 8' BETWEEN STA. 150+70 TO 161+00
 PR SIDEWALK WIDTH ALONG EAST SIDE
 8' BETWEEN STA. 147+00 TO STA. 159+00

LEGEND
 [Solid Box] BRICK PAVER CROSSWALK
 [Dotted Box] BRICK PAVER ACCENT STRIP



PROPOSED IMPROVEMENTS

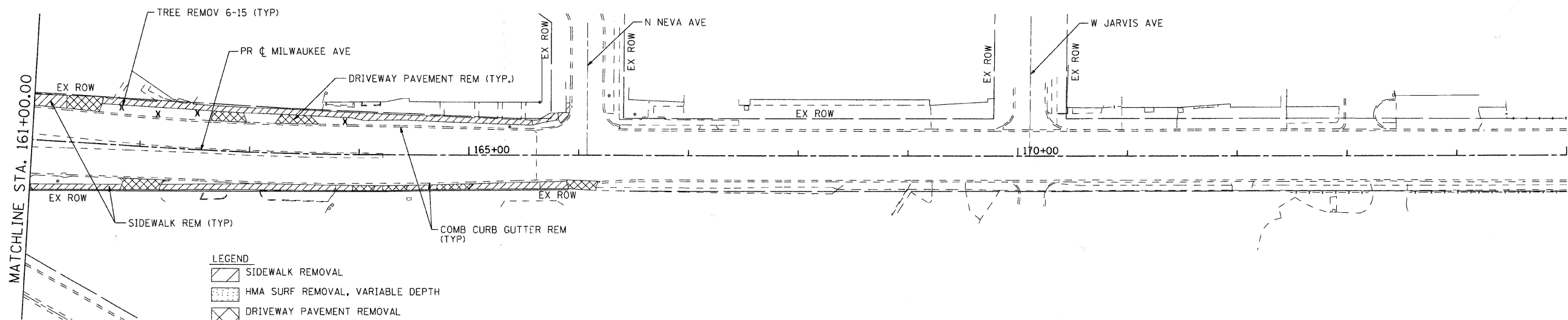


PLAN
 SURVEYED BY: _____
 CHECKED BY: _____
 DATE: _____

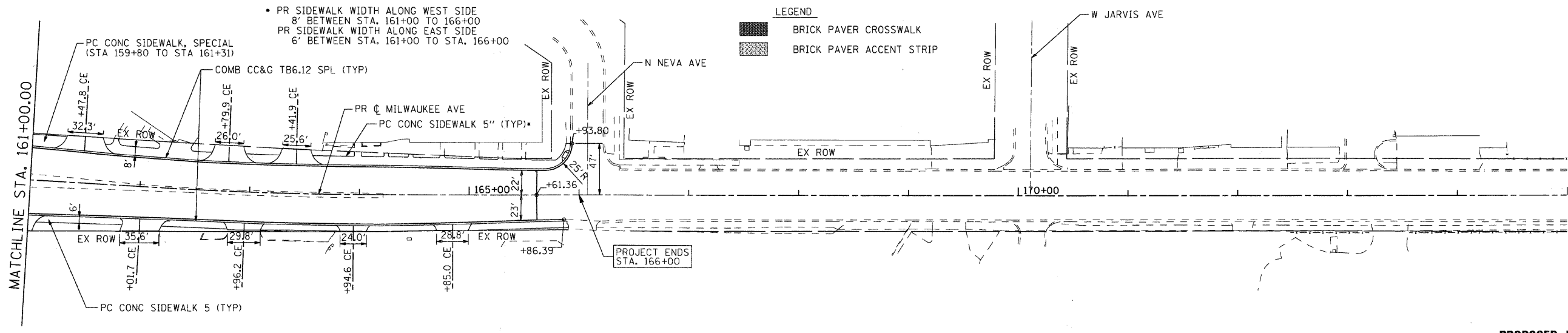
PROFILE
 SURVEYED BY: _____
 CHECKED BY: _____
 DATE: _____

<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = char-ke DESIGNED - JPA DRAWN - JPA CHECKED - JLP DATE - 12/16/08	REVISED - REVISED - REVISED - REVISED -	<p align="center">VILLAGE OF NILES</p> <p align="center">ROADWAY PLAN AND PROFILE N. MILWAUKEE AVE (IL ROUTE 21)</p>	F.A.U. 3513 SECTION 08-00107-00-PV COUNTY COOK TOTAL SHEETS 169 SHEET NO. 17 CONTRACT NO. 08097
	PLOT SCALE = 1" = 50' PLOT DATE = 12/22/2008	SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 147+00 TO STA. 161+00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)	

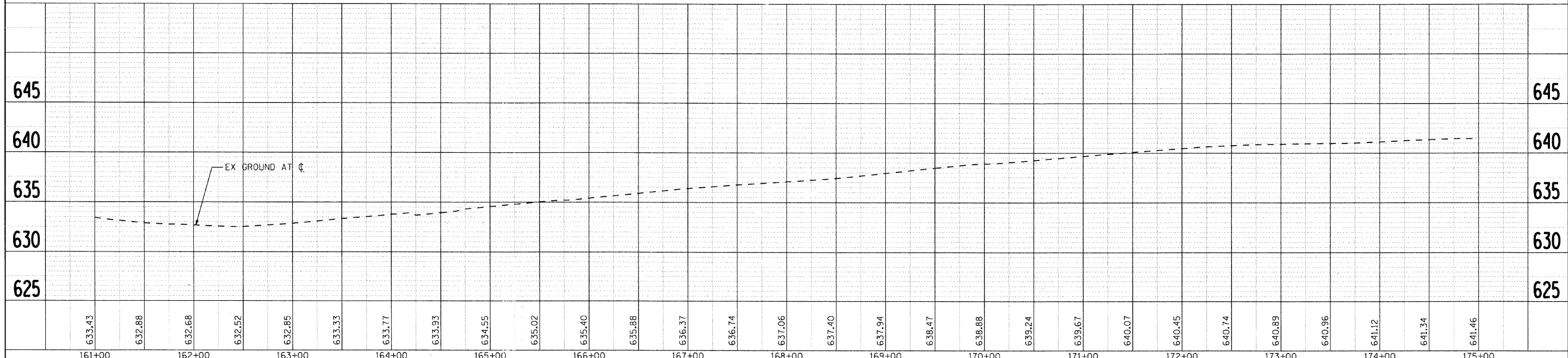
MILWAUKEE AVENUE IMPROVEMENTS
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EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



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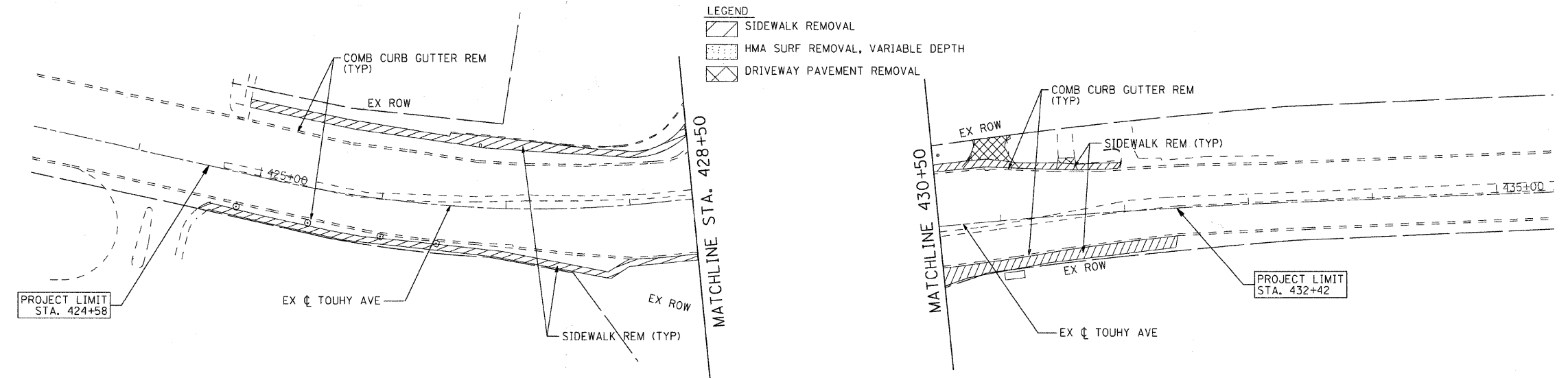
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<p>SEC Group, Inc. Engineering Planning Landscape Architecture McHenry • Yorkville • New Tenc • Chicago www.secgroupinc.com</p>	USER NAME = charlke PLOT SCALE = 1" = 50' PLOT DATE = 12/22/2008	DESIGNED - JPA DRAWN - JPA CHECKED - JLP DATE - 12/16/08	REVISED REVISED REVISED REVISED	VILLAGE OF NILES		ROADWAY PLAN AND PROFILE N. MILWAUKEE AVE (IL ROUTE 21)		F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 18	CONTRACT NO.
	SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 161+00 TO STA. END				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003723								

MILWAUKEE AVENUE IMPROVEMENTS
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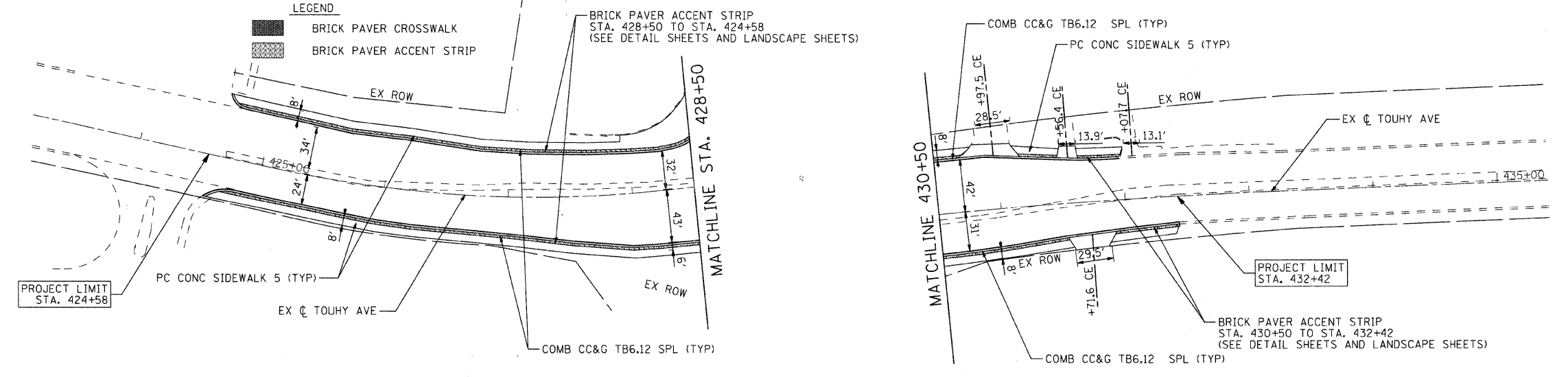


- LEGEND**
- SIDEWALK REMOVAL
 - HMA SURF REMOVAL, VARIABLE DEPTH
 - DRIVEWAY PAVEMENT REMOVAL

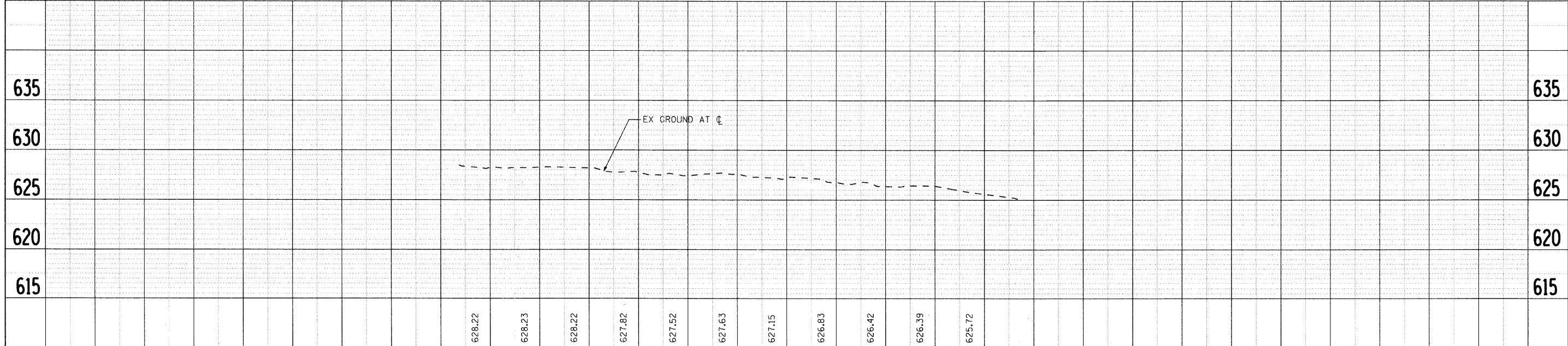


EXISTING CONDITIONS

- LEGEND**
- BRICK PAVER CROSSWALK
 - BRICK PAVER ACCENT STRIP



PROPOSED IMPROVEMENTS



PLAN

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<p>SEC Group, Inc. Engineering Surveying Planning Architecture</p> <p>Milwaukee • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = charlke PLOT SCALE = 1" = 50' PLOT DATE = 12/22/2008	DESIGNED - JPA DRAWN - JPA CHECKED - JLP DATE - 12/16/08	REVISED REVISED REVISED REVISED	427+00 428+00 429+00 430+00 431+00 432+00	VILLAGE OF NILES ROADWAY PLAN AND PROFILE TOUHY AVE	SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. BEGIN TO STA. END	F.A.U. RTE. 3513 SECTION 08-00107-00-PV COUNTY COOK TOTAL SHEETS 169 SHEET NO. 19 CONTRACT NO. 63001	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M -8003(723)
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MILWAUKEE AVENUE IMPROVEMENTS
06253
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MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL SIGNS, BARRICADES, FLAGGERS, PAVEMENT STRIPING AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PURPOSE OF REGULATING, WARNING OR GUIDING TRAFFIC. PROPER PLACEMENT AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE IN ACCORDANCE WITH THE APPLICABLE PARTS OF SECTION 701 OF THE STANDARD SPECIFICATIONS, THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE HIGHWAY STANDARDS. TRAFFIC CONTROL DEPICTED ON THE CONSTRUCTION STAGING PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. ALLOWABLE HOURS FOR LANE CLOSURES ARE 9:00 AM TO 3:00 PM.
3. THE CONTRACTOR SHALL USE PAVEMENT MARKING TAPE TYPE III FOR TEMPORARY LANE MARKINGS ON ALL PERMANENT PAVEMENT. PAINT PAVEMENT MARKINGS MAY BE USED ON ALL SURFACES TO BE REMOVED.
4. 4" SOLID LANES SHALL BE USED TO DEFINE OUTSIDE LANE LINES DURING MAINTENANCE OF TRAFFIC.
5. ACCESS TO ABUTTING PROPERTIES AND SIDE STREETS SHALL BE PROVIDED AND MAINTAINED DURING CONSTRUCTION AND SHALL BE PAID FOR AS "TEMPORARY ACCESS" OF THE TYPE SPECIFIED PER EACH.
6. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED BY MEANS APPROVED BY THE ENGINEER. THIS WORK WILL BE PAID FOR PER SQUARE FOOT OF "PAVEMENT MARKING REMOVAL".
7. TYPE I OR II BARRICADES EQUIPPED WITH ONE-WAY FLASHING LIGHTS WILL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER TRENCHES, AND AT ANY OTHER LOCATIONS DESIGNATED BY THE ENGINEER.
8. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST TWO WORKING DAYS IN ADVANCE OF THE CHANGE.
9. EXISTING TRAFFIC CONTROL DEVICES ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
10. THE REMOVAL OF TEMPORARY PAVEMENT MARKINGS, WHEN DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE ITEM FOR "TEMPORARY PAVEMENT MARKING".
11. THIS PROJECT MAY REQUIRE UP TO 6 PORTABLE CHANGEABLE MESSAGE SIGNS.
12. THE CONTRACTOR WILL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH BARRICADE USED. (TYPE I OR TYPE II (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
13. THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS, AND PEDESTRIAN ACCESS TO EACH ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY ACCESS CLOSURES SHALL ONLY TAKE PLACE BETWEEN THE HOURS OF 10:00 A.M. AND 3:00 P.M. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.
14. TEMPORARY PAVEMENT SHALL BE PLACED, AS REQUIRED, TO PROVIDE A SMOOTH VERTICAL OR HORIZONTAL TRANSITION FOR VEHICLES TRAVELING WITHIN THE PROJECT LIMITS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)". SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.

SUGGESTED CONSTRUCTION STAGING

- STAGE IA - TRAFFIC
- PLACE TEMPORARY CONSTRUCTION SIGNAGE AND BARRICADES FOR STAGE IA CONSTRUCTION BETWEEN STATIONS 102+52 AND 127+00 AND FOR STAGE I CONSTRUCTION BETWEEN STATIONS 127+00 TO NORTHERN PROJECT LIMITS.
 - REMOVE CONFLICTING PAVEMENT MARKINGS.
 - SHIFT TRAFFIC AS INDICATED.
- STAGE IA - CONSTRUCTION
- REMOVE EXISTING PAVEMENT, CURB AND GUTTER AND PAVEMENT AS INDICATED.
 - CONSTRUCT WATER MAIN BETWEEN STATION 102+52 TO 127+00.
- STAGE I - TRAFFIC
- PLACE TEMPORARY CONSTRUCTION SIGNAGE AND BARRICADES NECESSARY FOR STAGE I CONSTRUCTION.
 - REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - SHIFT TRAFFIC AS INDICATED.
- STAGE I - CONSTRUCTION
- REMOVE EXISTING PAVEMENT, CURB AND GUTTER AND PAVEMENT AS INDICATED.
 - CONSTRUCT ALL WATER MAIN.
 - CONSTRUCT STORM SEWER, CURB AND GUTTER, PAVEMENT WIDENING BASE, SIDEWALK AND DRIVEWAYS.
- STAGE II - TRAFFIC
- PLACE/ADJUST TEMPORARY CONSTRUCTION SIGNAGE AND BARRICADES NECESSARY FOR STAGE II CONSTRUCTION.
 - REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - SHIFT TRAFFIC AS INDICATED.
- STAGE II - CONSTRUCTION
- REMOVE EXISTING PAVEMENT, CURB AND GUTTER AND PAVEMENT AS INDICATED.
 - CONSTRUCT STORM SEWER, CURB AND GUTTER, PAVEMENT WIDENING BASE, SIDEWALK AND DRIVEWAYS.
- STAGE III - TRAFFIC
- UTILIZE DAILY LANE CLOSURES TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
- STAGE III - CONSTRUCTION
- MILL EXISTING PAVEMENT.
 - CONSTRUCT CONCRETE BAND AND BASE FOR BRICK PAVER CROSSWALKS.
 - RESURFACE PAVEMENT WITH BINDER AND SURFACE COURSES.
 - INSTALL BRICK PAVERS WITHIN ALL BRICK PAVER CROSSWALKS.
 - PLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS.
 - REMOVE TEMPORARY CONSTRUCTION SIGNS AND BARRICADES.



DRIVEWAY ENTRANCE SIGNS SHALL BE PLACED AT ALL ENTRANCES AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.



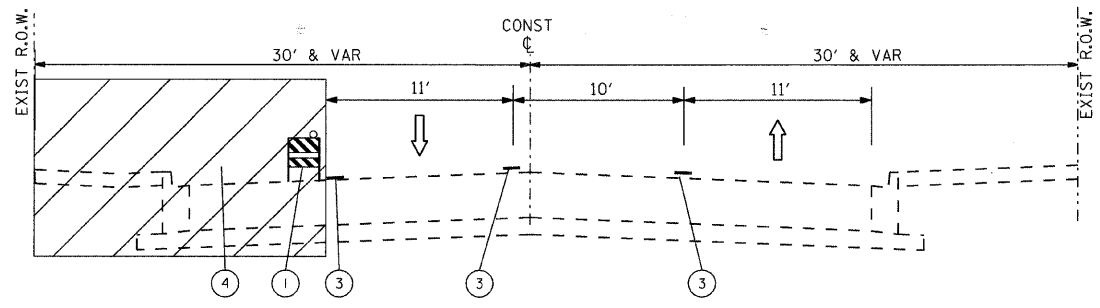
USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

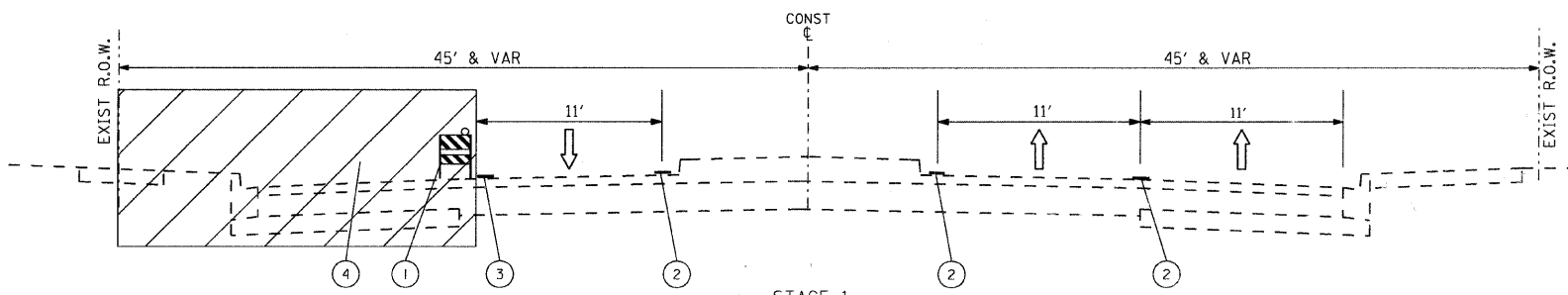
CONSTRUCTION STAGING NOTES AND MAINTENANCE OF TRAFFIC DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 8 SHEETS STA. TO STA.

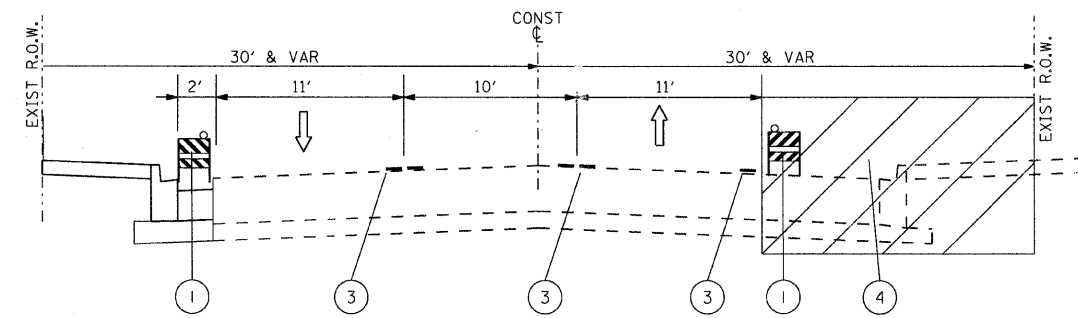
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M -B003(723)				



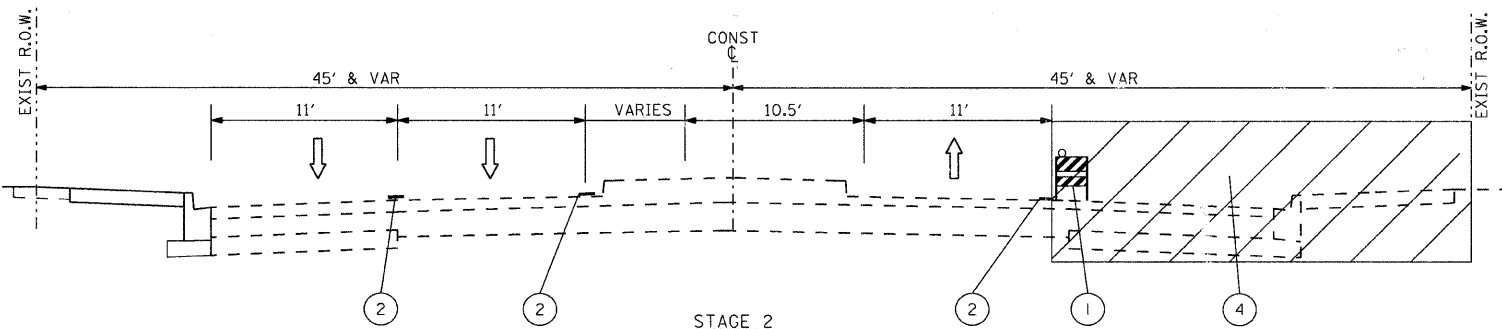
STAGE 1
MILWAUKEE AVENUE
STA 105+25 TO STA 148+49



STAGE 1
MILWAUKEE AVENUE
STA 148+49 TO STA 166+00

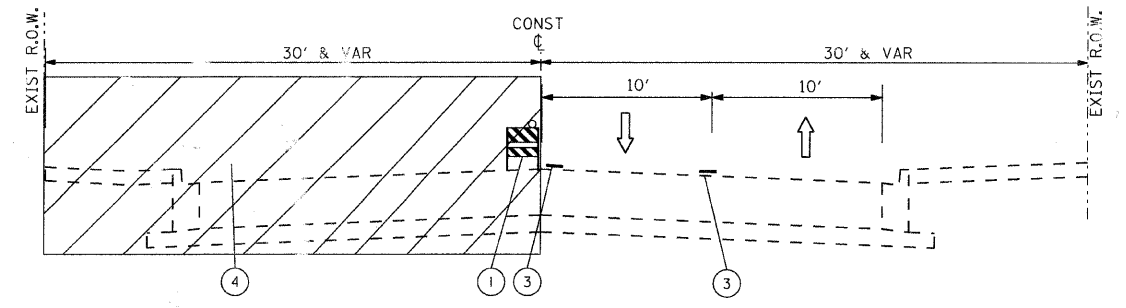


STAGE 2
MILWAUKEE AVENUE
STA 105+25 TO STA 151+50



STAGE 2
MILWAUKEE AVENUE
STA 151+50 TO STA 166+00

- TYPICAL SECTION LEGEND**
- ① TYPE II BARRICADES SPACED PER IDOT HIGHWAY STANDARDS WITH STEADY BURNING LIGHTS.
 - ② EXISTING PAVEMENT MARKING TO REMAIN DURING STAGE CONSTRUCTION
 - ③ TEMPORARY PAVEMENT MARKING
 - ④ WORK ZONE
 - ⇨ TRAFFIC DIRECTION



STAGE 1A
MILWAUKEE AVENUE
STA 105+25 TO STA 127+00



USER NAME = char-uke	DESIGNED - JRM	REVISED -
PLOT SCALE = N.T.S.	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF MILES

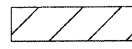






SUGGESTED MAINTENANCE OF TRAFFIC PLAN - TYPICAL SECTIONS

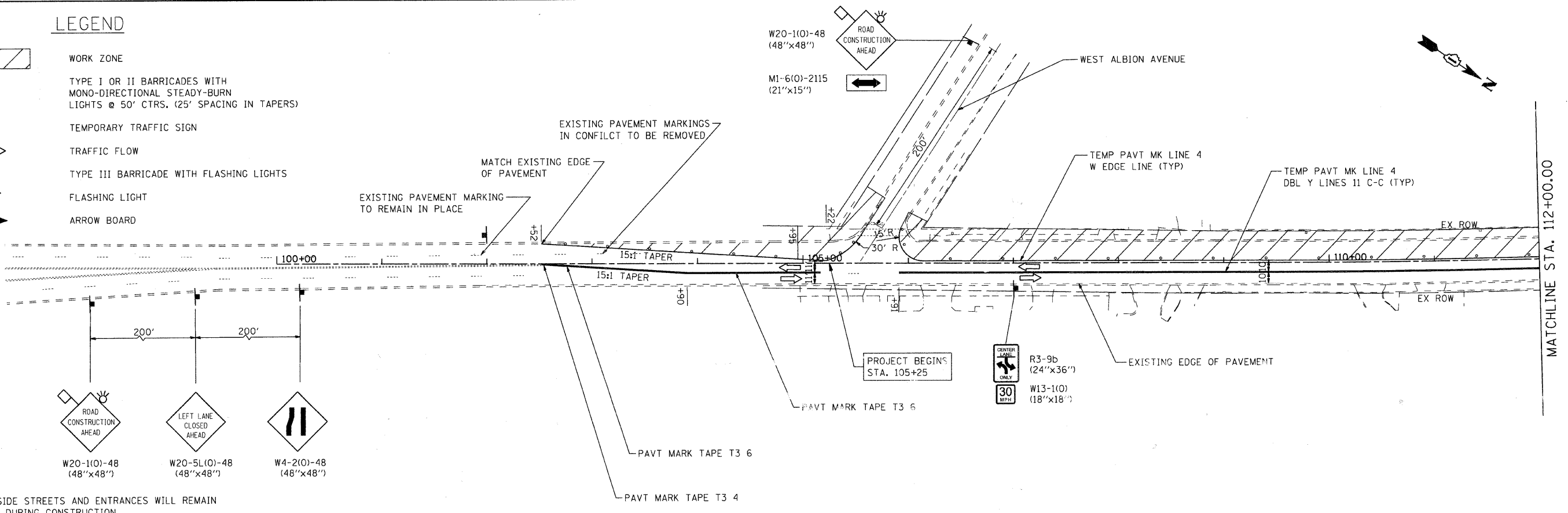
SCALE: N.T.S. SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	21
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				

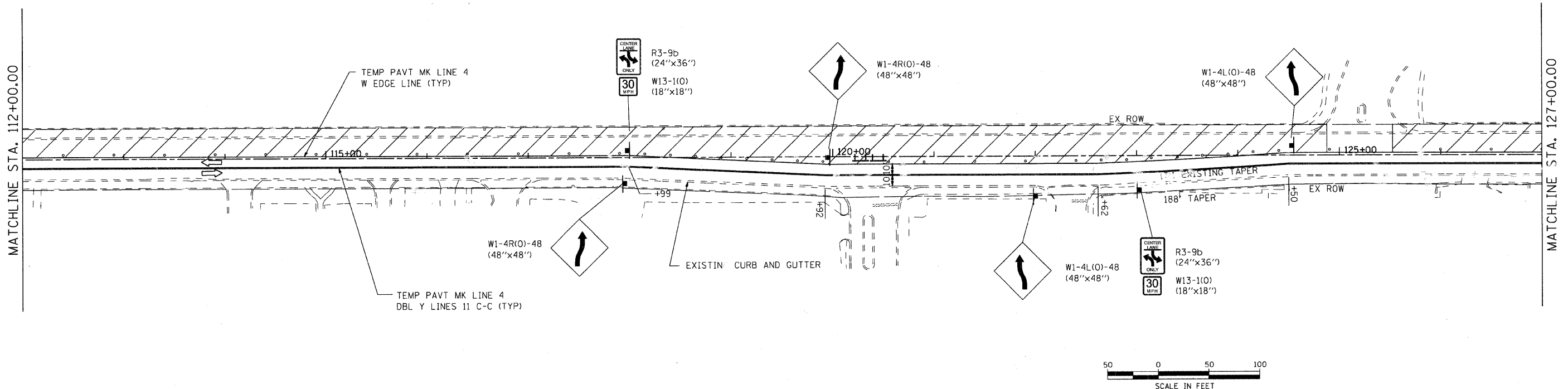
MILWAUKEE AVENUE IMPROVEMENTS
06/02/08
06/02/08-wat-17p-02.dgn

LEGEND

-  WORK ZONE
-  TYPE I OR II BARRICADES WITH MONO-DIRECTIONAL STEADY-BURN LIGHTS @ 50' CTRS. (25' SPACING IN TAPERS)
-  TEMPORARY TRAFFIC SIGN
-  TRAFFIC FLOW
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  FLASHING LIGHT
-  ARROW BOARD



NOTE: ALL SIDE STREETS AND ENTRANCES WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = char tke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

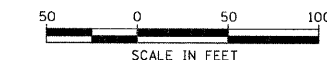
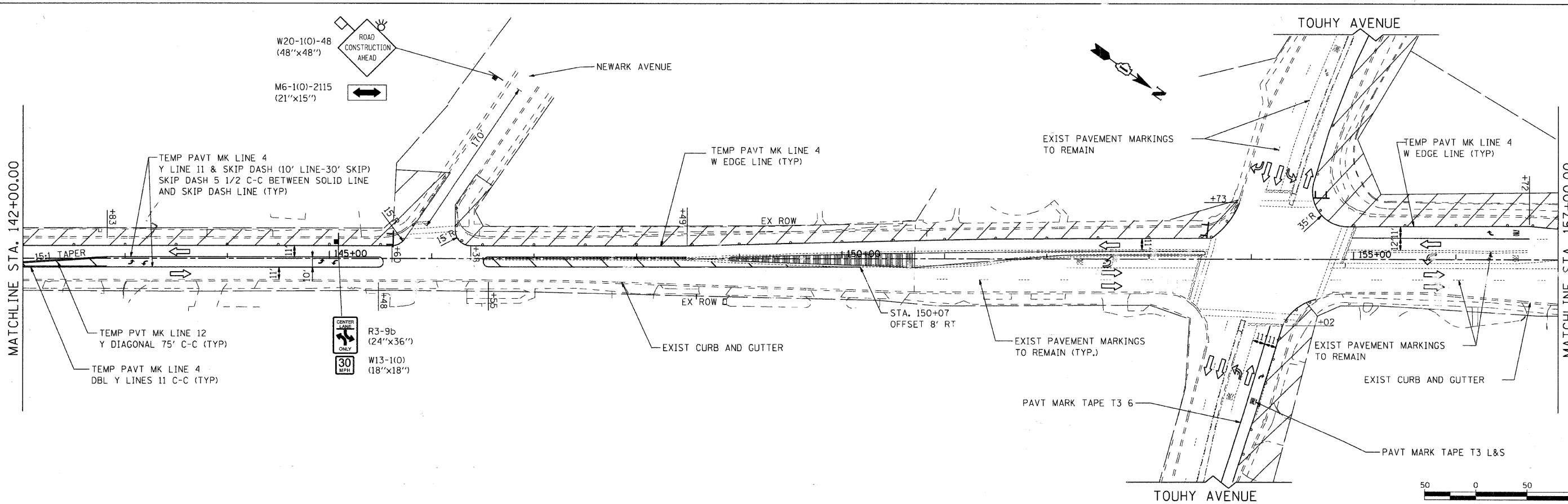
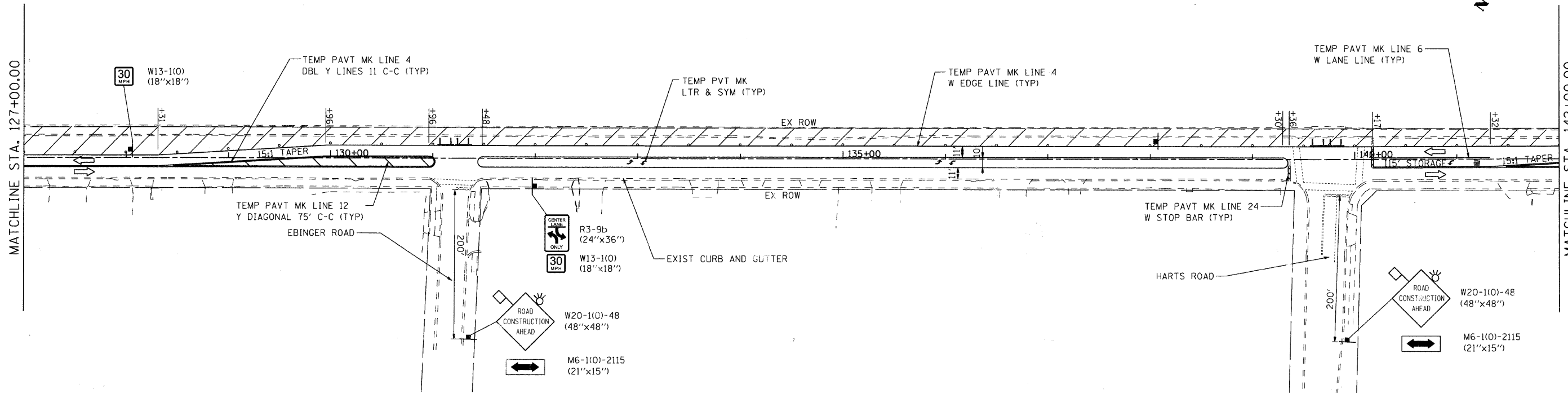
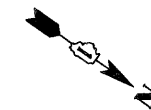
VILLAGE OF NILES

SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A

SCALE: 1" = 50' SHEET NO. 2A OF 8 SHEETS STA. BEGIN TO STA. 127+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	21A
CONTRACT NO. M-8003(723)				

NOTE: ALL SIDE STREETS AND ENTRANCES WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = char-ke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

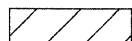






VILLAGE OF NILES

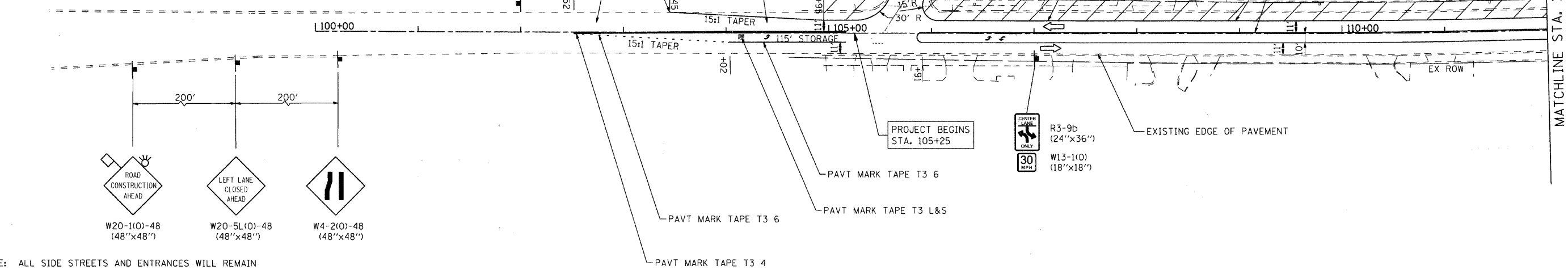
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A

SCALE: 1" = 50' SHEET NO. 2B OF 8 SHEETS STA. 127+00.00 TO STA. 157+00.00

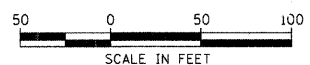
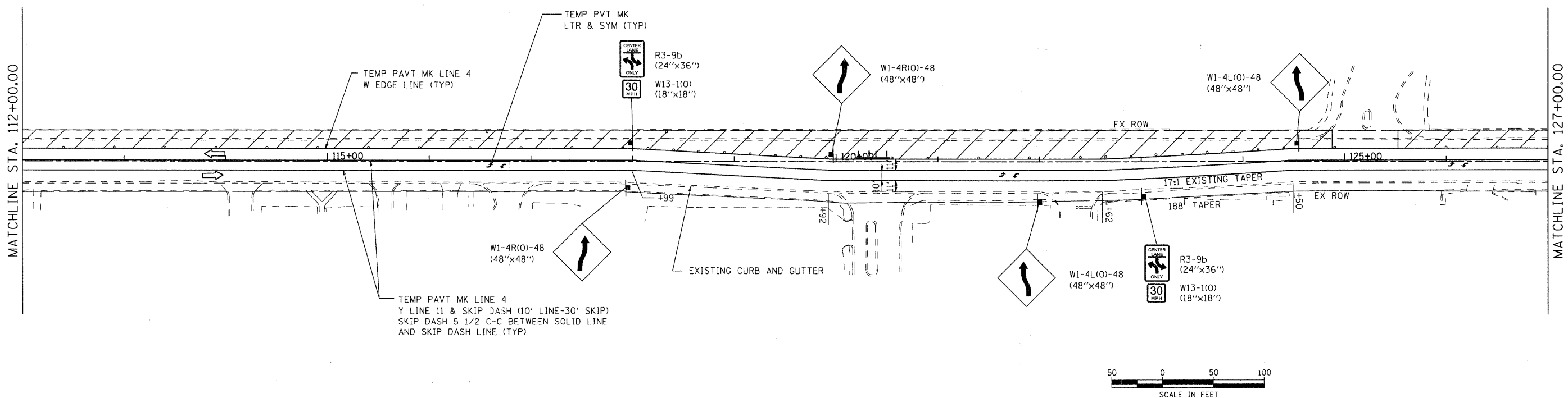
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	21B
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M-8003(723)				

LEGEND

-  WORK ZONE
-  TYPE I OR II BARRICADES WITH MONO-DIRECTIONAL STEADY-BURN LIGHTS @ 50' CTRS. (25' SPACING IN TAPERS)
-  TEMPORARY TRAFFIC SIGN
-  TRAFFIC FLOW
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  FLASHING LIGHT
-  ARROW BOARD



NOTE: ALL SIDE STREETS AND ENTRANCES WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

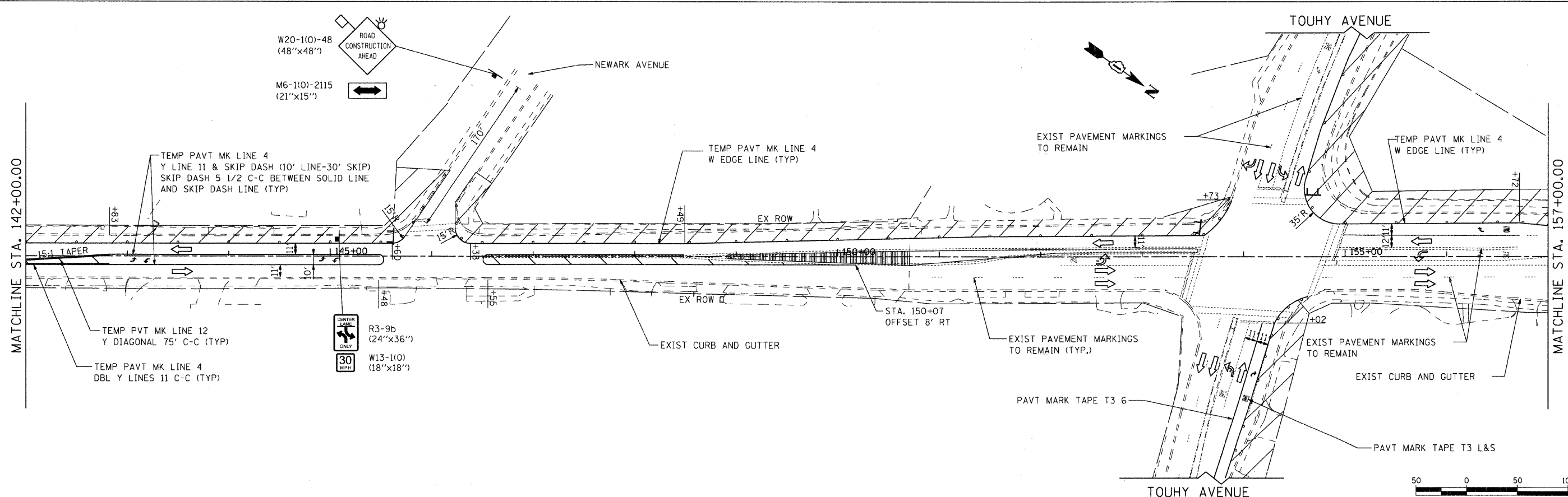
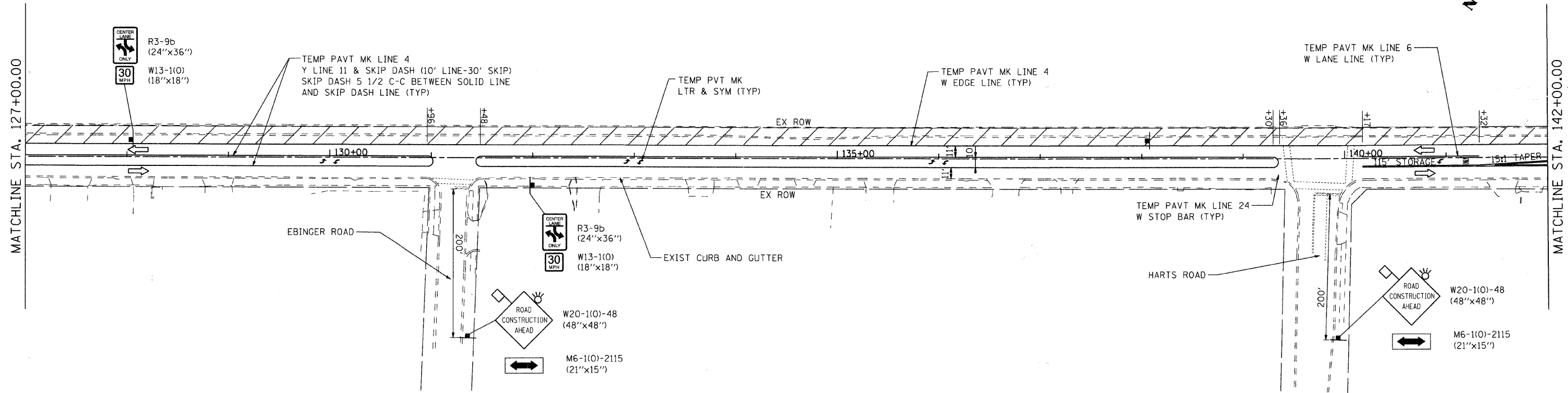
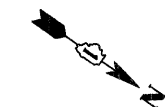
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1

SCALE: 1" = 50' SHEET NO. 3 OF 8 SHEETS STA. BEGIN TO STA. 127+00.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 22
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M-8003(723)	CONTRACT NO. 08-00107-00-PV	

MILWAUKEE AVENUE IMPROVEMENTS
06/20/11
06/20/11-01.dgn

NOTE: ALL SIDE STREETS AND ENTRANCES WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

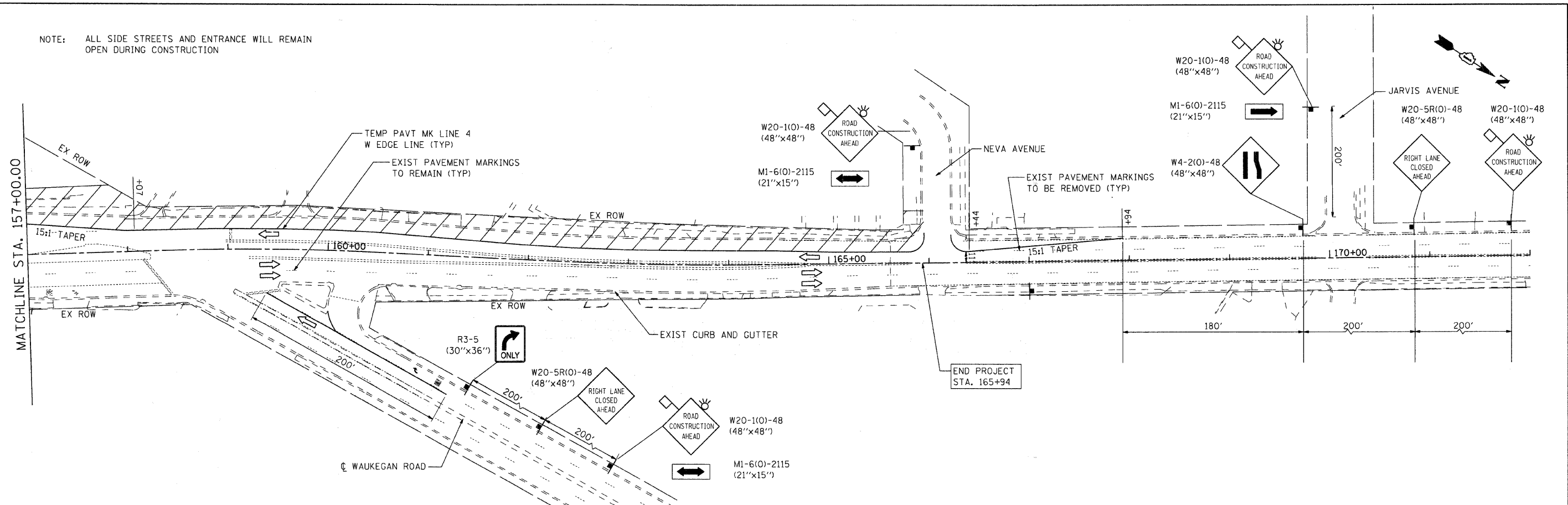
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1

SCALE: 1" = 50' SHEET NO. 4 OF 8 SHEETS STA. 127+00.00 TO STA. 157+00.00

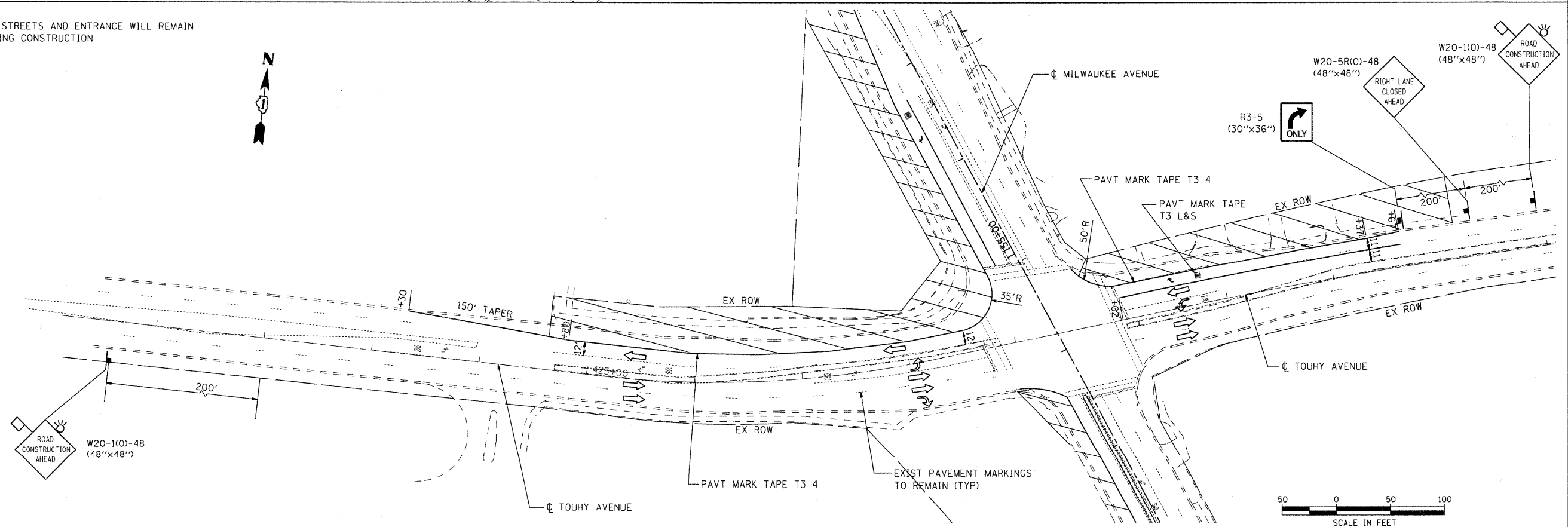
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	23
CONTRACT NO. 08-00107-00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-80031723				

VILWAIRKE AVENUE IMPROVEMENTS
060253
060253-ma11-02.dgn

NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

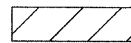






SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1

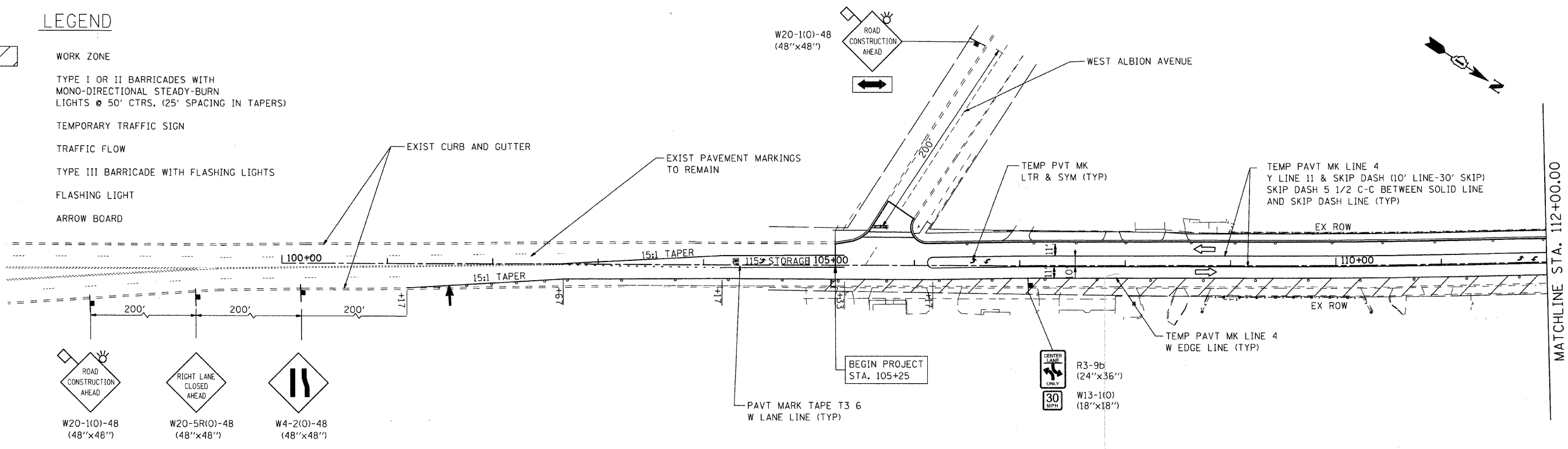
SCALE: 1" = 50' SHEET NO. 5 OF 8 SHEETS STA. 157+00.00 TO STA. END

F.A.U. R.T.E. 3513	SECTION 08-00107-Q0-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M. 80034723			CONTRACT NO. 08-00107-Q0-PV	

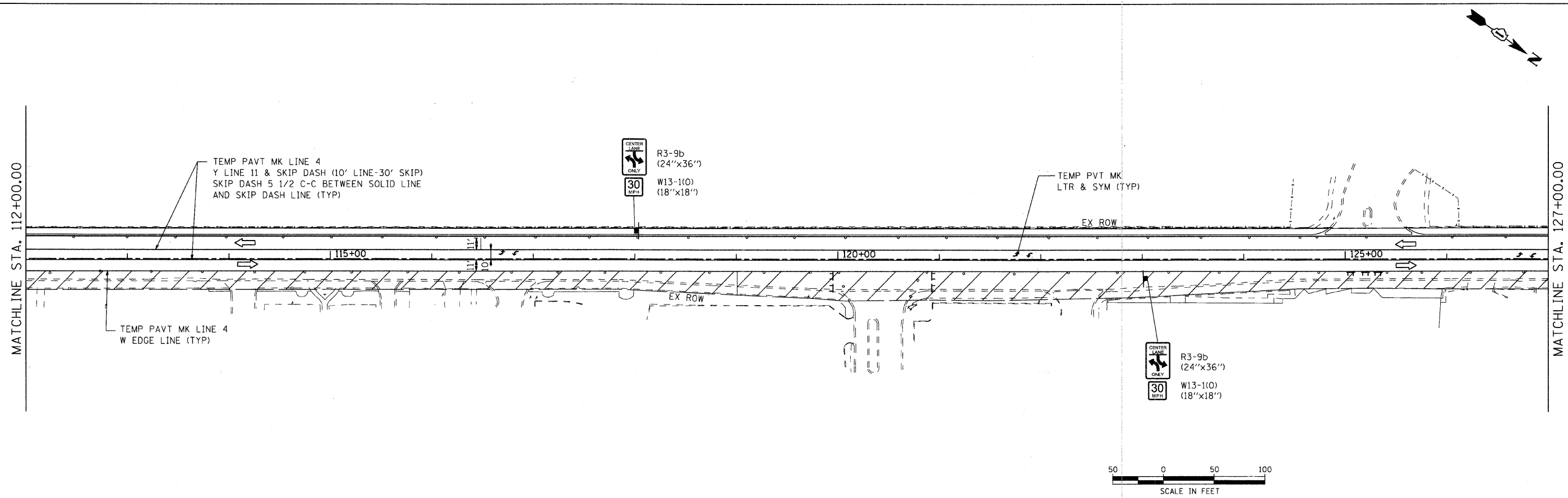
MILWAUKEE AVENUE IMPROVEMENTS
 080353.m011-03.dgn

LEGEND

-  WORK ZONE
-  TYPE I OR II BARRICADES WITH MONO-DIRECTIONAL STEADY-BURN LIGHTS @ 50' CTRS. (25' SPACING IN TAPERS)
-  TEMPORARY TRAFFIC SIGN
-  TRAFFIC FLOW
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  FLASHING LIGHT
-  ARROW BOARD



NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

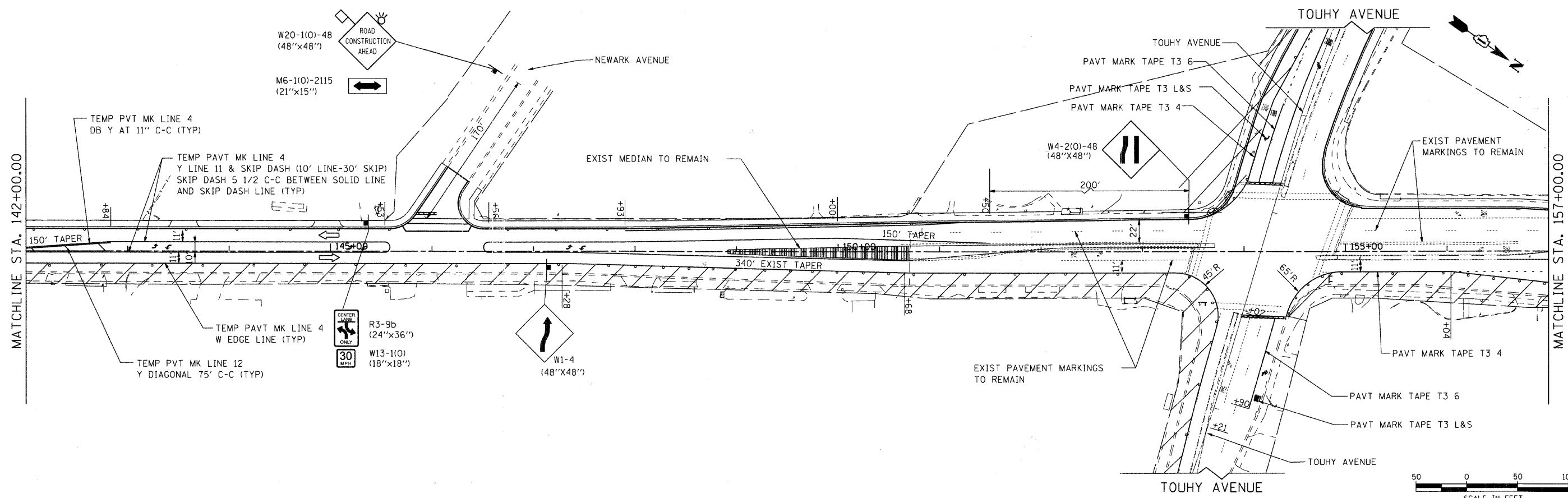
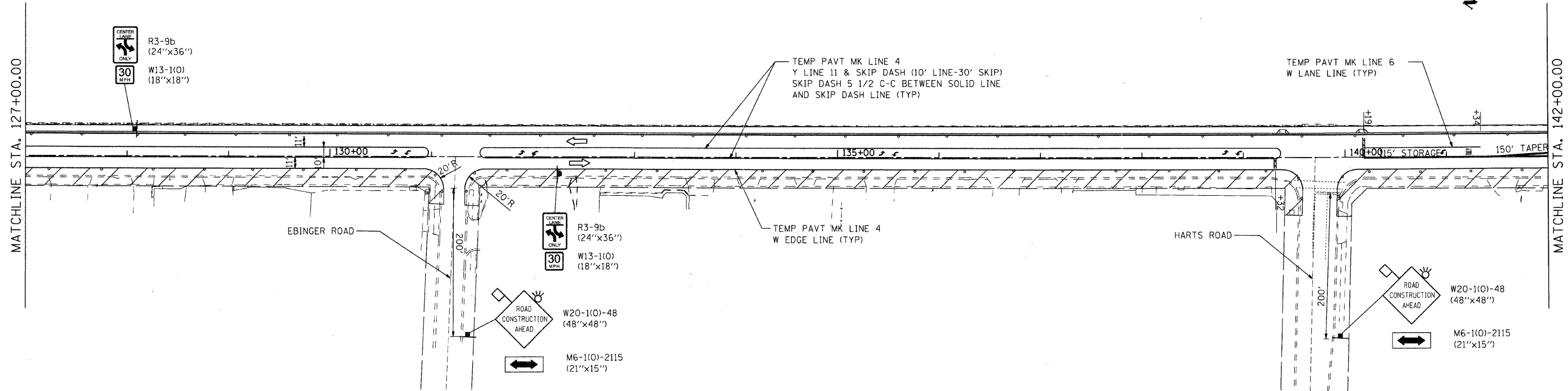
VILLAGE OF NILES

SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2

SCALE: 1" = 50' SHEET NO. 6 OF 8 SHEETS STA. BEGIN TO STA. 127+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	25
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. M-8003(723)	

NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

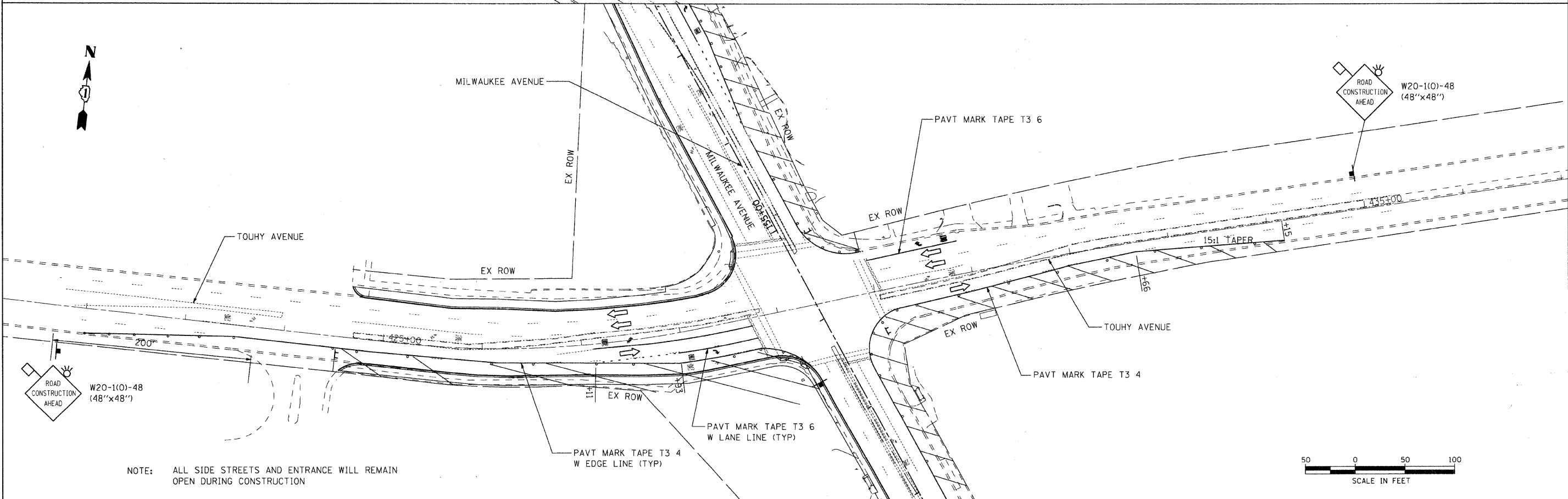
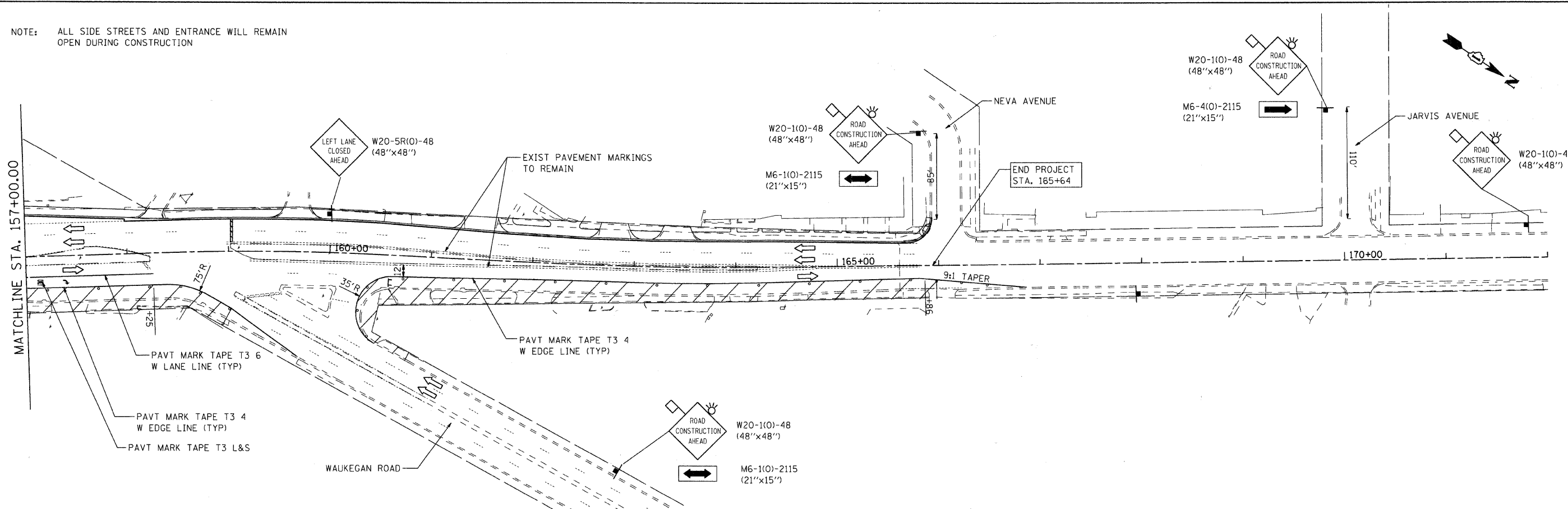
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2

SCALE: 1" = 50' SHEET NO. 7 OF 8 SHEETS STA. 127+00.00 TO STA. 157+00.00

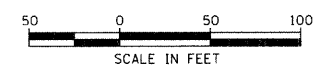
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-06-PV	COOK	169	26
CONTRACT NO. 08-00107-06-PV				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M - 8003(723)				

MILWAUKEE AVENUE IMPROVEMENTS
062253-0012-02.dgn

NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



NOTE: ALL SIDE STREETS AND ENTRANCE WILL REMAIN OPEN DURING CONSTRUCTION



USER NAME = charlke	DESIGNED - JRM	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2

SCALE: 1" = 50' SHEET NO. 8 OF 8 SHEETS STA. 157+00.00 TO STA. END

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 27
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M-8003(723)		

MILWAUKEE AVENUE IMPROVEMENTS
06/25/11
06/25/11-mat2-03.dgn

SEDIMENTATION AND EROSION CONTROL

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION.
2. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY AND PERMANENT MEASURES.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF THE ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE IN ACCORDANCE WITH SECTIONS 250 AND 280 OF THE STANDARD SPECIFICATIONS.
5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
6. EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ANY STORM HAVING A RAINFALL EQUAL TO ONE-HALF INCH OR GREATER. ANY REQUIRED REPAIRS TO THE EROSION CONTROL SYSTEMS SHALL BE MADE IMMEDIATELY. ANY SILTATION OF CULVERTS, STRUCTURES, OR DITCHES SHALL BE CLEANED AND MAINTAINED BY THE CONTRACTOR UNTIL SEEDING HAS TAKEN HOLD. ALL WASHOUTS, GULLIES, ETC. WILL BE REGRADED AND RESEDED BY THE CONTRACTOR. THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
7. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
8. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT OR AS DIRECTED BY THE ENGINEER AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
9. IF DE-WATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
10. THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
11. THE CONTRACTOR IS ADVISED THAT MUD AND DEBRIS MUST NOT BE DEPOSITED ON THE ADJACENT ROADWAYS. ANY DIRT AND DEBRIS ACCUMULATED ON THE PAVEMENT SHALL BE CLEANED BY THE CONTRACTOR WITHIN FOUR (4) HOURS OF THE INCIDENT. THIS WORK SHALL BE INCLUDED IN THE COST OF INLET FILTER.

SUGGESTED SOIL EROSION AND SEDIMENTATION CONTROL PLAN AND SEQUENCE

PRE-STAGE

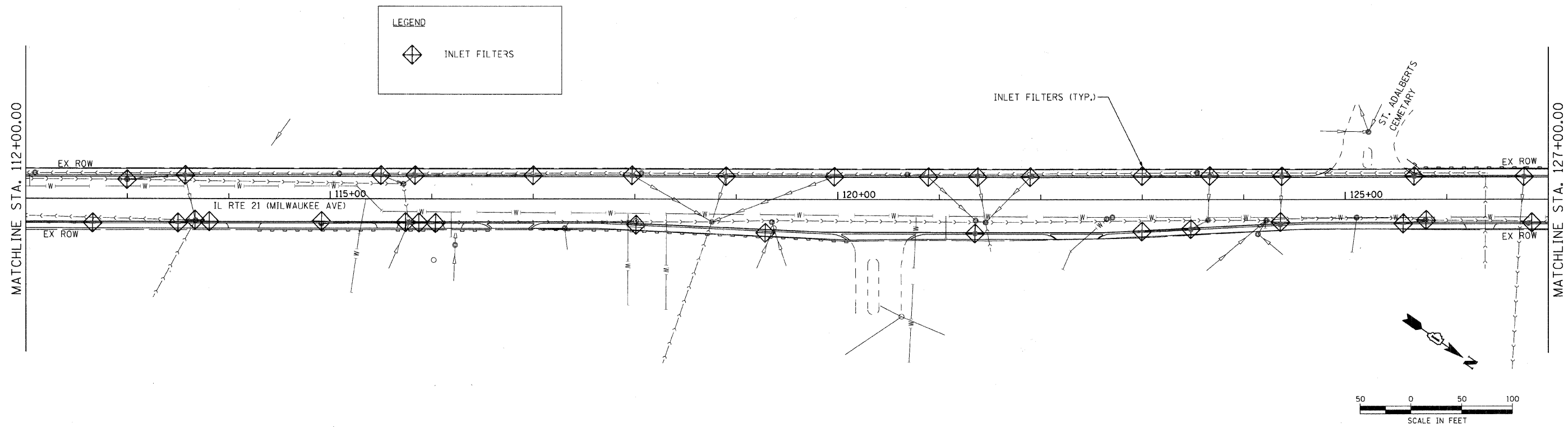
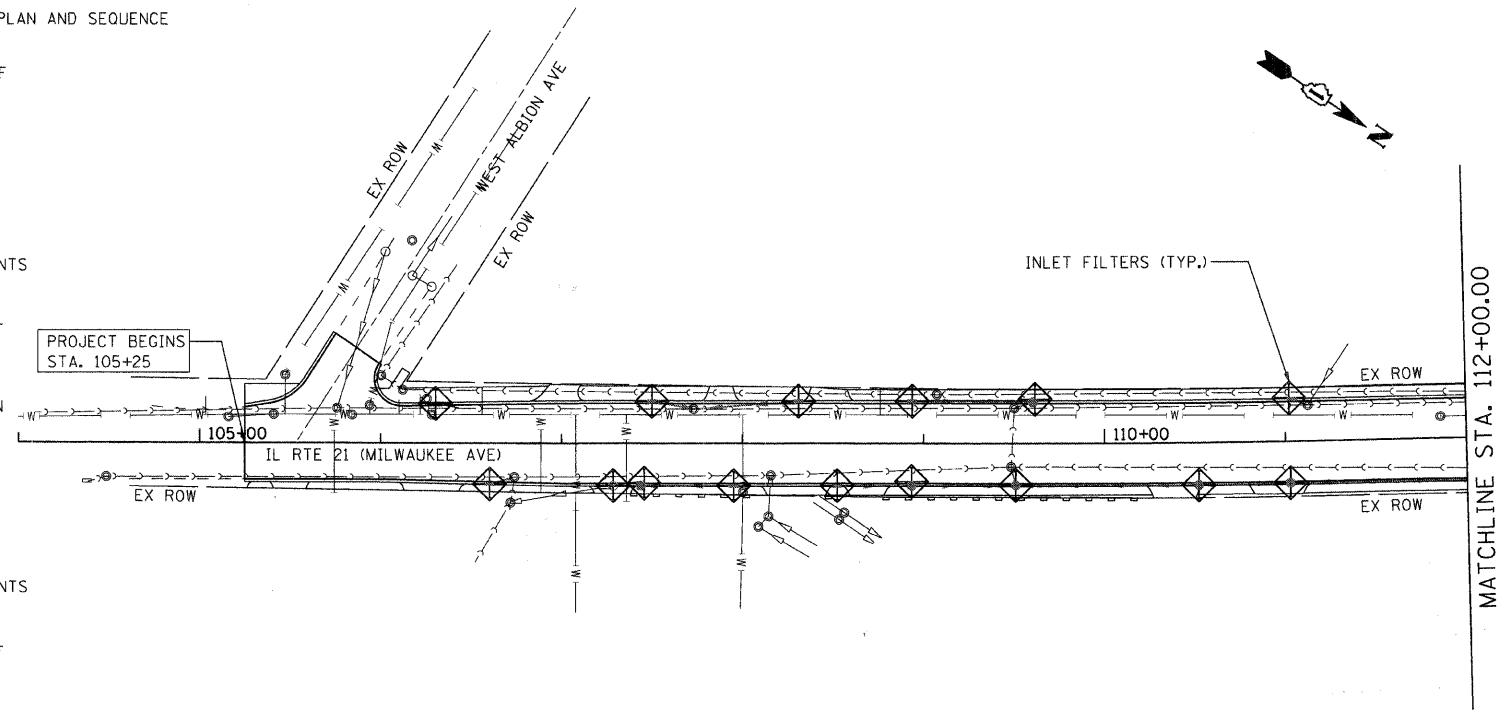
1. BEGIN REMOVAL OPERATIONS AFTER INSTALLATION OF PERIMETER EROSION BARRIER.

STAGE 1

1. REMOVE EXISTING STORM SEWER AND STRUCTURES ALONG SOUTHBOUND MILWAUKEE AVENUE.
2. INSTALL INLET FILTERS IN STRUCTURES ALONG THE NORTHBOUND PAVEMENT AS SHOWN ON THE PLANS.
3. INSTALL WATER MAIN AND STORM SEWER IMPROVEMENTS ALONG SOUTHBOUND MILWAUKEE AVENUE.
4. PROVIDE INLET FILTER CLEANING AFTER SIGNIFICANT RAIN EVENTS AND AS DIRECTED BY THE ENGINEER.
5. AFTER PERMANENT IMPROVEMENTS AND LANDSCAPING HAVE BEEN COMPLETED, REMOVE TEMPORARY EROSION CONTROL ITEMS.

STAGE 2

1. REMOVE EXISTING STORM SEWER AND STRUCTURES ALONG NORTHBOUND MILWAUKEE AVENUE.
2. INSTALL INLET FILTERS IN STRUCTURES ALONG THE SOUTHBOUND PAVEMENT AS SHOWN ON THE PLANS.
3. INSTALL WATER MAIN AND STORM SEWER IMPROVEMENTS ALONG NORTHBOUND MILWAUKEE AVENUE.
4. PROVIDE INLET FILTER CLEANING AFTER SIGNIFICANT RAIN EVENTS AND AS DIRECTED BY THE ENGINEER.
5. AFTER PERMANENT IMPROVEMENTS AND LANDSCAPING HAVE BEEN COMPLETED, REMOVE TEMPORARY EROSION CONTROL ITEMS.



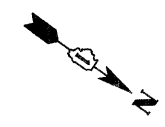
USER NAME = charlke	DESIGNED - JJS	REVISED
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED
	DATE - 12/16/08	REVISED

VILLAGE OF NILES

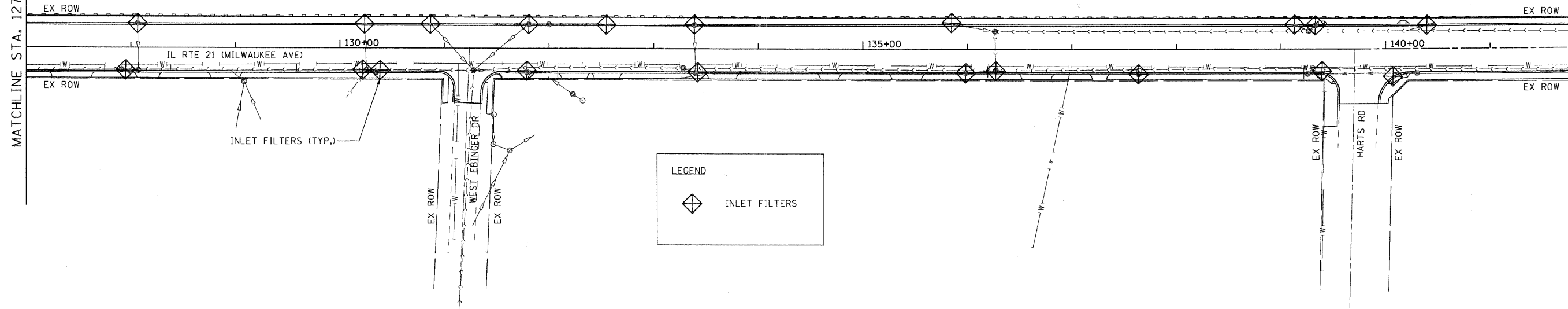
EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. BEGIN TO STA. 127+00.00

F.A.U. RTE. 3513	SECTION 08-00107-06-RV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 28
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	M-8003(723)	

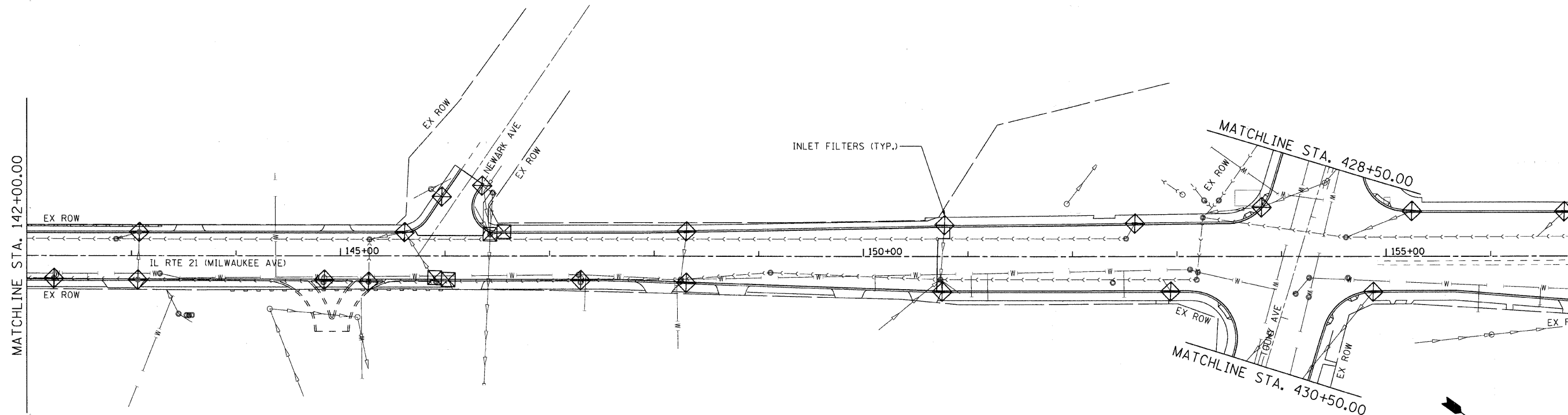


MATCHLINE STA. 127+00.00

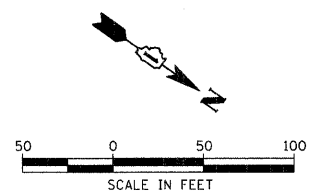


MATCHLINE STA. 142+00.00

MATCHLINE STA. 142+00.00



MATCHLINE STA. 157+00.00



USER NAME = charlke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

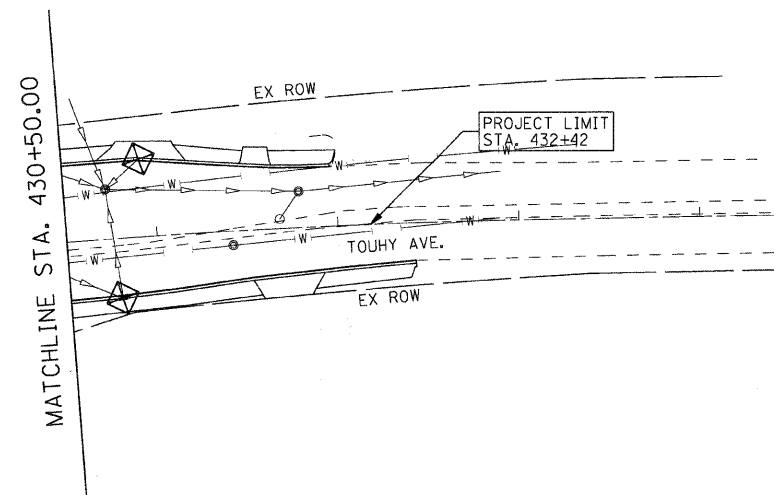
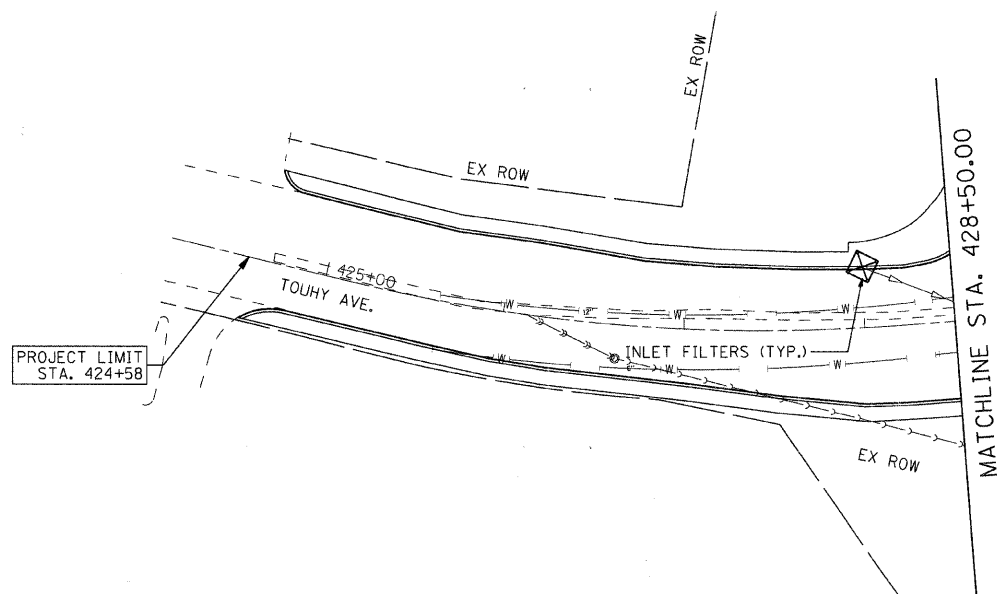
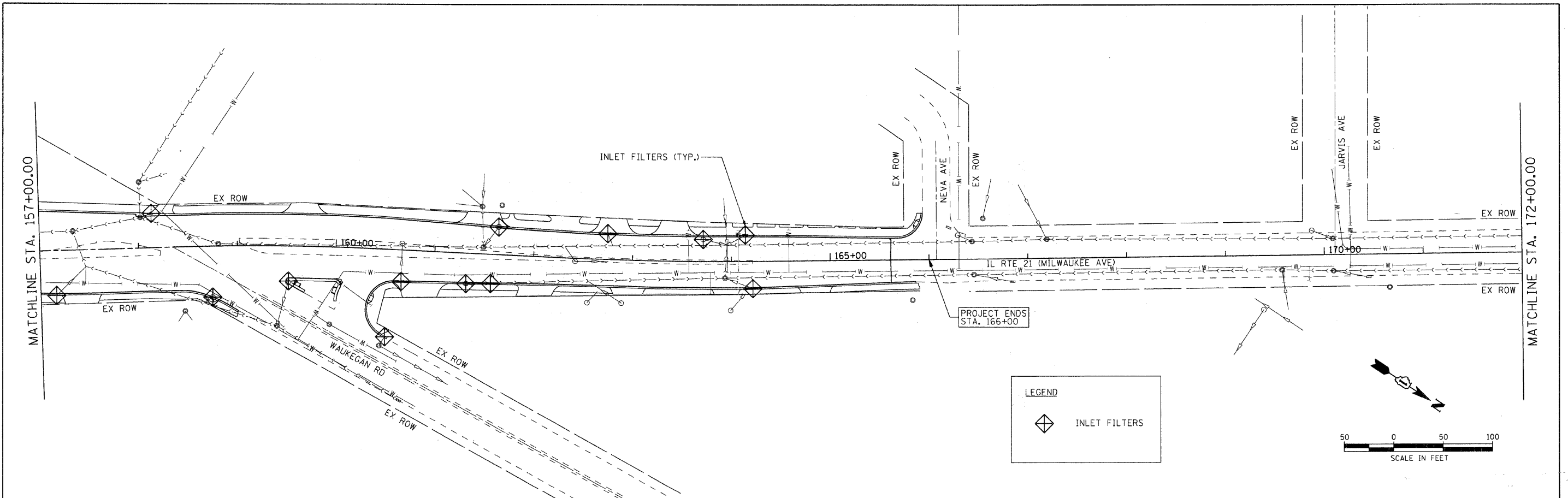
VILLAGE OF NILES

EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 127+00.00 TO STA. 157+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
3513	08-00107-06-PV	COOK	169	29
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	M-8003(723)	
		CONTRACT NO. 169		

MILWAUKEE AVENUE IMPROVEMENTS
060293-ar-02.dgn



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USER NAME = cha-tke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

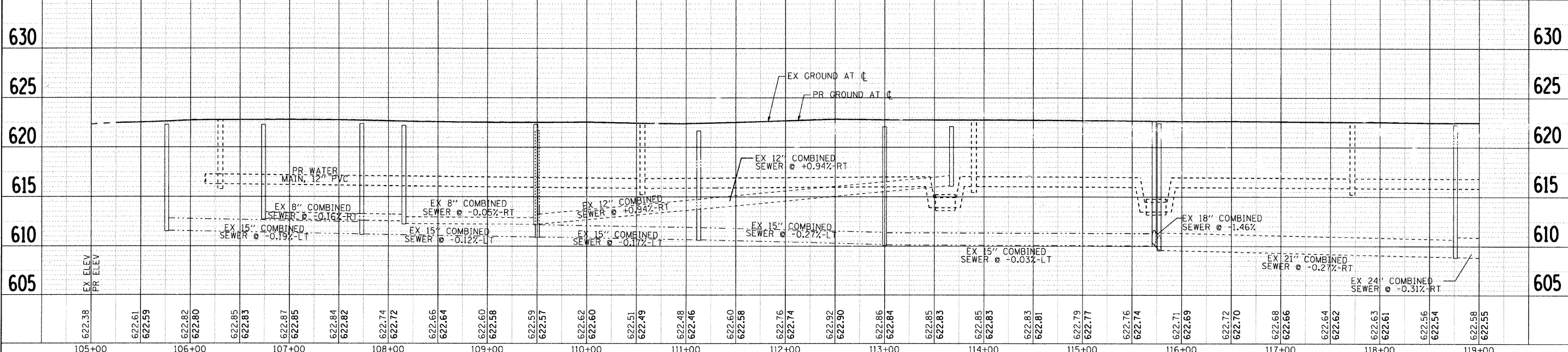
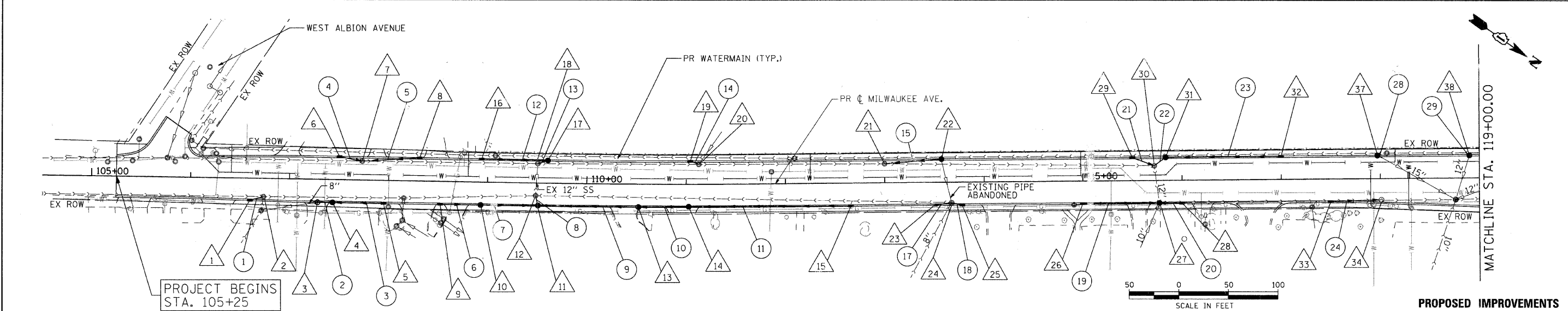
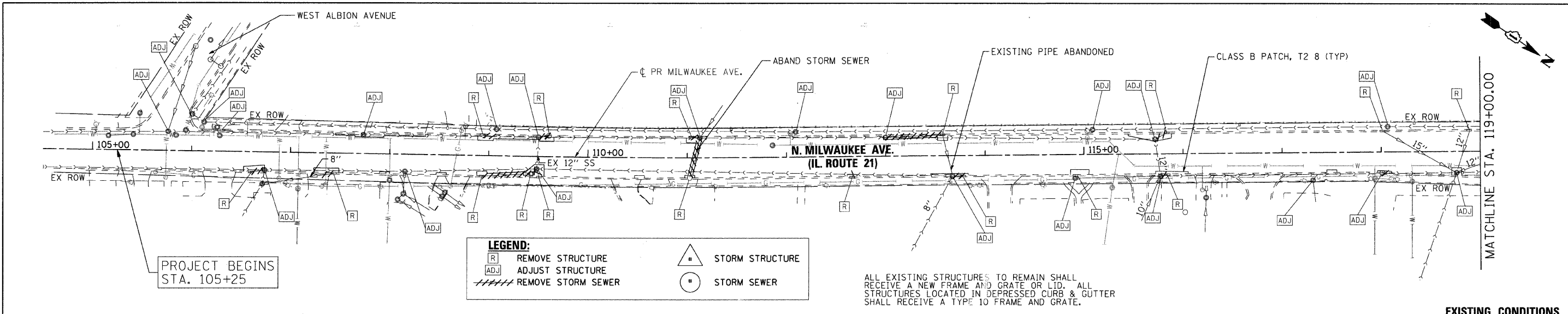
EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. 157+00.00 TO STA. 172+00.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 30
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		M-8003(723)

DATE	BY
REVISIONS	NO.
NOTED	DATE
ALIGNED	CHECKED
CADD	FILE NAME
PLAN	NO.

DATE	BY
REVISIONS	NO.
NOTED	DATE
ALIGNED	CHECKED
CADD	FILE NAME
PROFILE	NO.



105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00
622.38	622.61	622.59	622.82	622.80	622.85	622.83	622.87	622.85	622.84	622.82	622.74	622.72	622.66	622.64
622.51	622.49	622.48	622.46	622.60	622.58	622.57	622.62	622.60	622.51	622.49	622.48	622.46	622.60	622.58
622.59	622.57	622.57	622.62	622.60	622.51	622.49	622.48	622.46	622.60	622.58	622.57	622.62	622.60	622.51
622.85	622.83	622.87	622.85	622.84	622.82	622.74	622.72	622.66	622.64	622.62	622.63	622.61	622.56	622.54
622.61	622.59	622.58	622.56	622.54	622.53	622.51	622.49	622.48	622.46	622.45	622.43	622.41	622.39	622.37
622.64	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62	622.62

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USER NAME = char tke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JJS	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

DRAINAGE AND UTILITY PLAN AND PROFILE

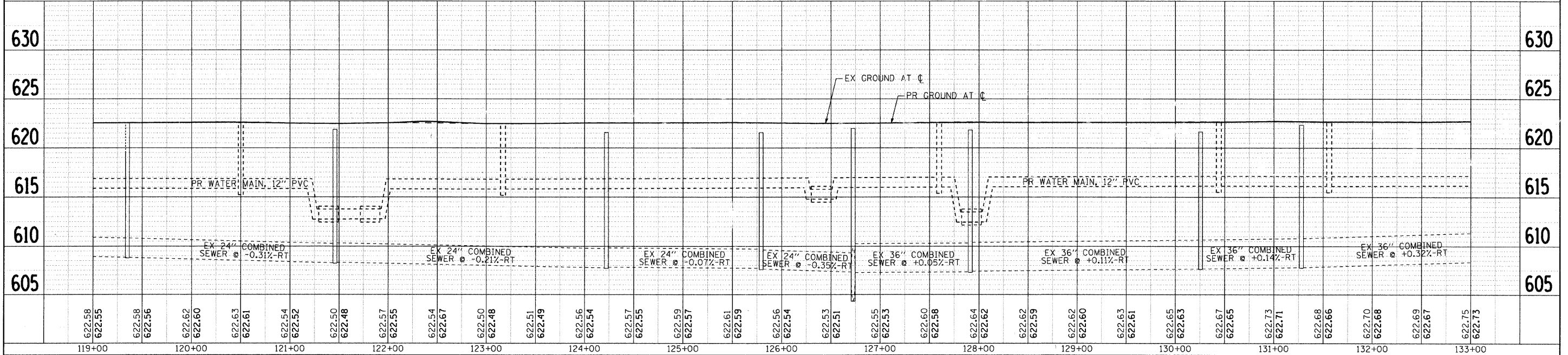
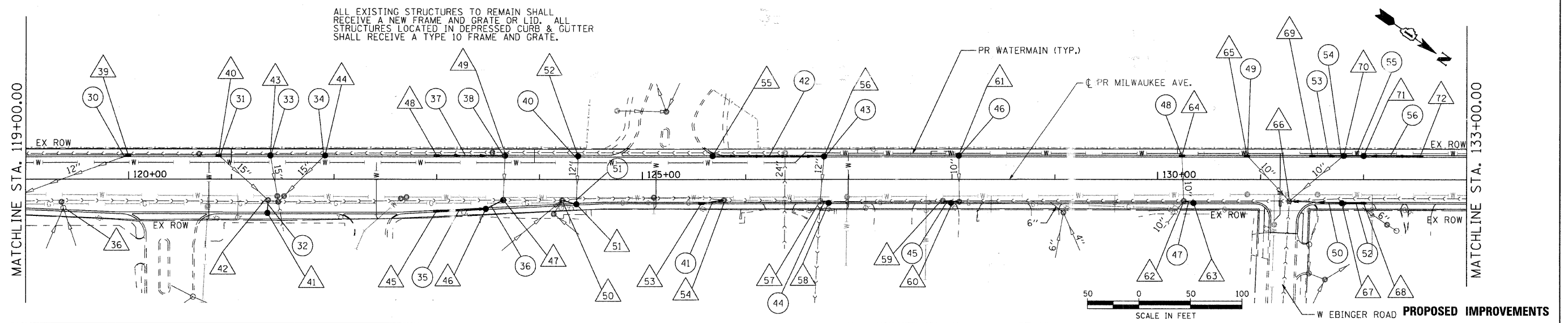
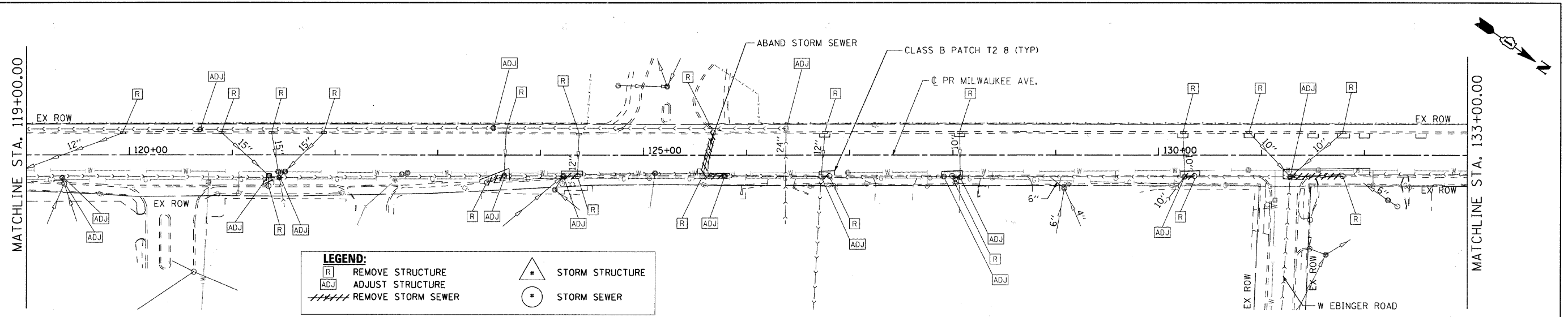
SCALE: 1" = 50' SHEET NO. 2 OF 7 SHEETS STA. BEGIN TO STA. 119+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	32
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M -8003(723)				

MILWAUKEE AVENUE IMPROVEMENTS
 06023
 06023-cpp-01.dgn

DATE	BY	REVISION
PLANNING	DESIGNED	DATE
NOTE BOOK	CHECKED	
NO.	BY	

DATE	BY	REVISION
PROFILE	DESIGNED	DATE
NOTE BOOK	CHECKED	
NO.	BY	



119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00	128+00	129+00	130+00	131+00	132+00	133+00
622.58	622.55	622.58	622.56	622.62	622.60	622.63	622.61	622.54	622.52	622.57	622.55	622.54	622.67	622.65
622.55	622.56	622.62	622.60	622.63	622.61	622.54	622.52	622.57	622.55	622.54	622.67	622.65	622.67	622.75
622.63	622.61	622.54	622.52	622.50	622.48	622.51	622.49	622.56	622.54	622.53	622.51	622.55	622.53	622.60
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622.63	622.61	622.54	622.52	622.50	622.48	622.51	622.49	622.56	622.54	622.53	622.51	622.55	622.53	622.60
622.60	622.63	622.61	622.54	622.52	622.50	622.51	622.49	622.56	622.54	622.53	622.51	622.55	622.53	622.60

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USER NAME = charlie	DESIGNED - JJS	REVISED -
PLANNING	DRAWN - JJS	REVISED -
NOTE BOOK	CHECKED - JLP	REVISED -
NO.	DATE - 12/16/08	REVISED -

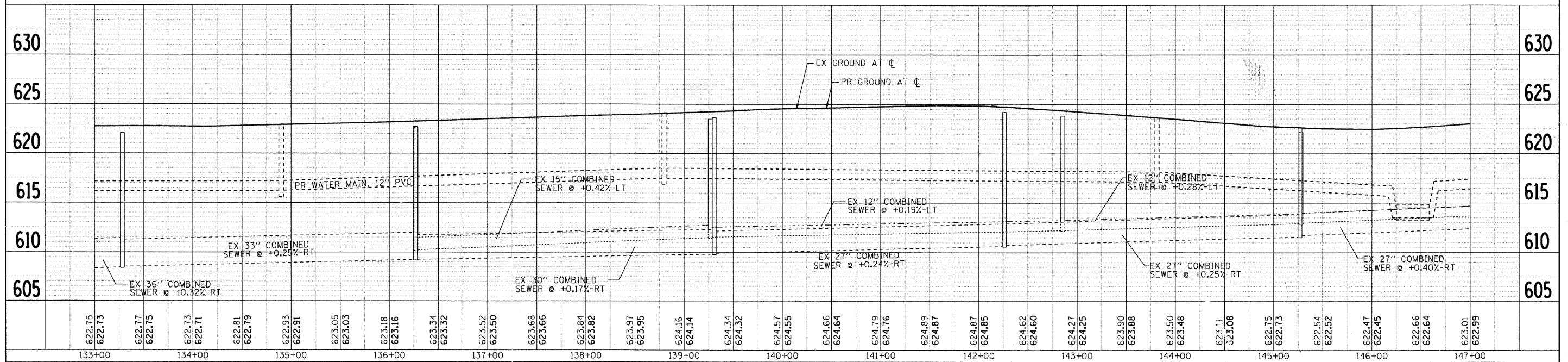
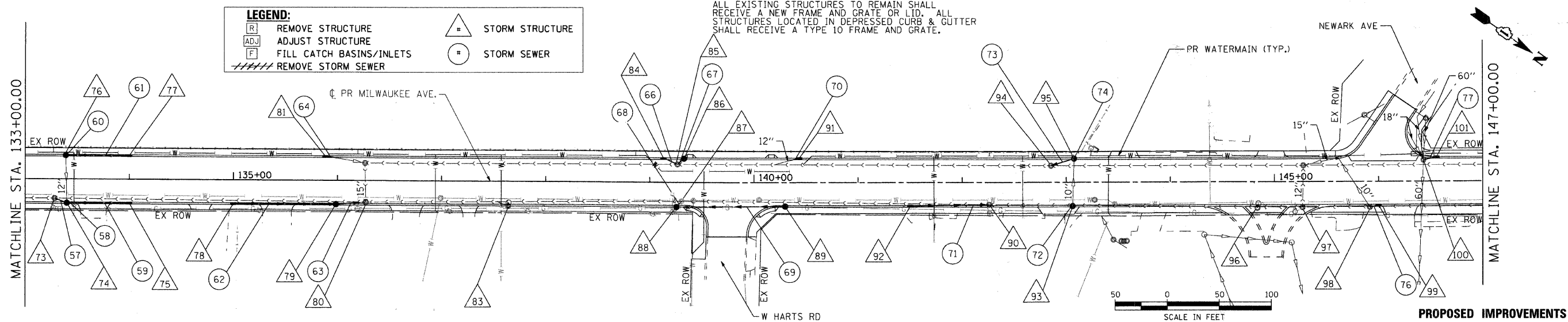
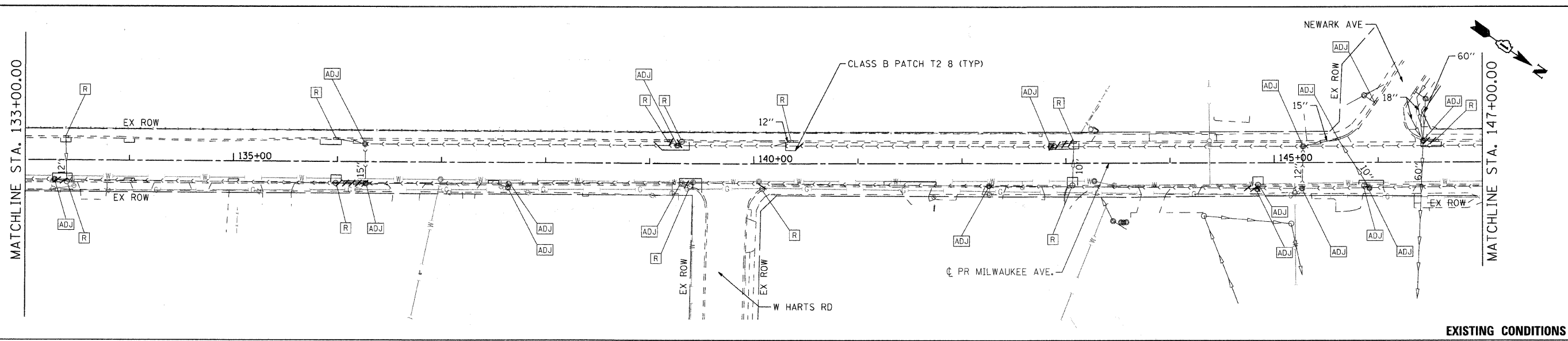
VILLAGE OF NILES

DRAINAGE AND UTILITY PLAN AND PROFILE			
SCALE: 1" = 50'	SHEET NO. 3 OF 7 SHEETS	STA. 119+00 TO STA. 133+00	F.A.U. RTE. 3513
SECTION 08-00107-01-PV		COUNTY COOK	TOTAL SHEETS 169
CONTRACT NO. M-8003(723)		FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT	SHEET NO. 33

MILWAUKEE AVENUE IMPROVEMENTS
 06023
 06023-dp-02.dgn

DATE	
BY	
SURVEYED	
PLAN	
NOTE BOOK	
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NO. OF PAGES CHECKED	
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DATE	
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NO. OF PAGES NOTED	



622.75	622.73	622.77	622.75	622.73	622.71	622.61	622.79	622.93	622.91	623.05	623.03	623.18	623.16	623.34	623.32	623.52	623.50	623.68	623.66	623.84	623.82	623.97	623.95	624.16	624.14	624.34	624.32	624.57	624.55	624.66	624.64	624.79	624.76	624.89	624.87	624.87	624.85	624.62	624.60	624.27	624.25	623.90	623.88	623.50	623.48	623.11	623.08	622.75	622.73	622.54	622.52	622.47	622.45	622.66	622.64	623.01	622.99
133+00		134+00		135+00		136+00		137+00		138+00		139+00		140+00		141+00		142+00		143+00		144+00		145+00		146+00		147+00																													

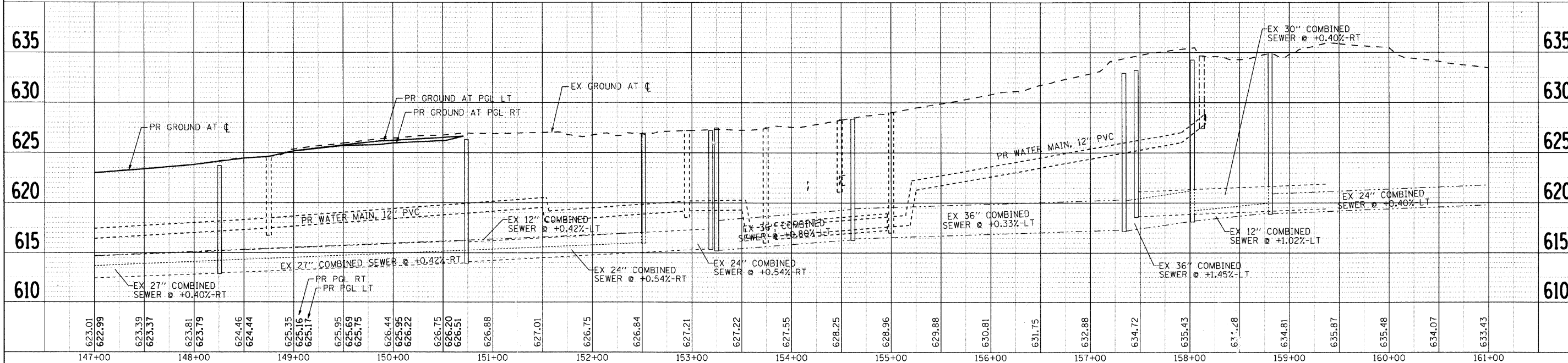
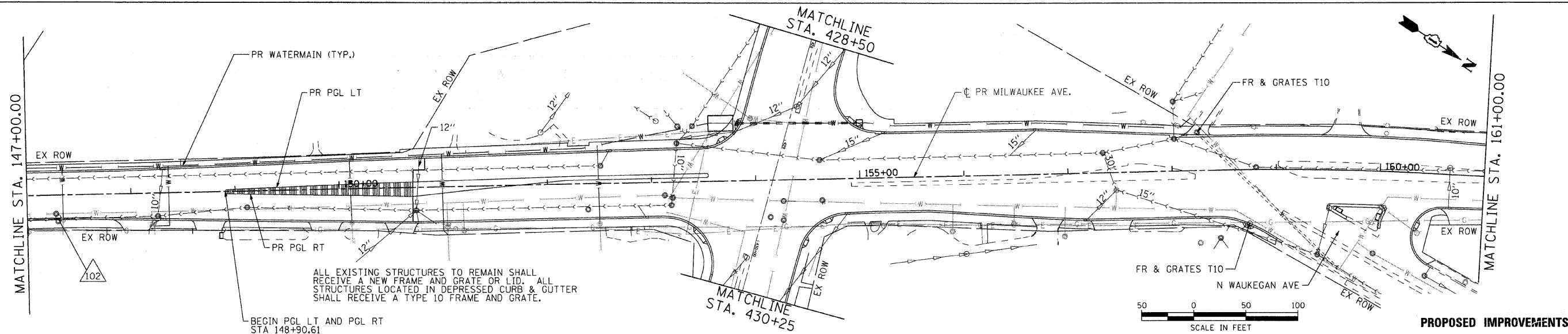
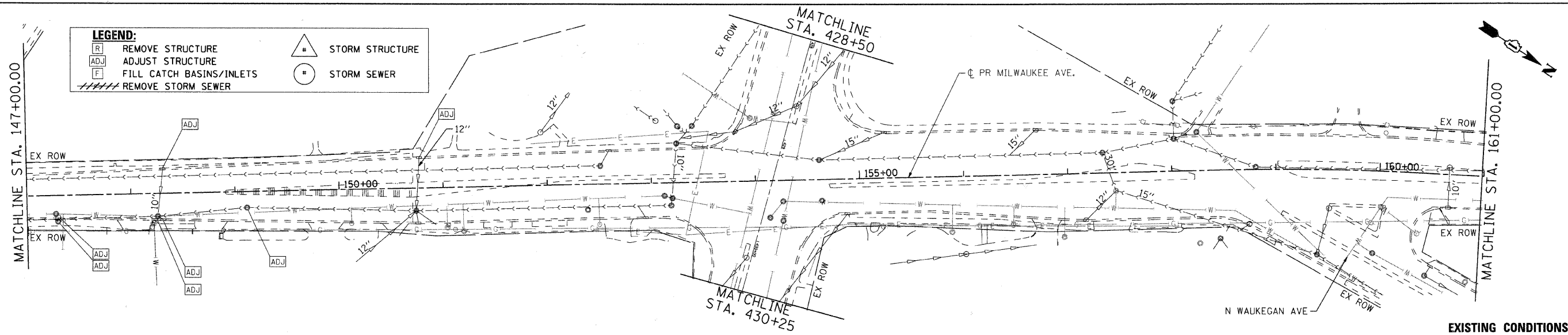
<p>Engineering Surveying Planning Landscape Architecture</p> <p>McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = charlke	DESIGNED - JJS	REVISED -	<p align="center">VILLAGE OF NILES</p> <p align="center">DRAINAGE AND UTILITY PLAN AND PROFILE</p>	F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 34
	PLOT SCALE = 1" = 50'	CHECKED - JLP	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT M-8003(723)			
	PLOT DATE = 12/22/2008	DATE - 12/16/08	REVISED -		SCALE: 1" = 50'	SHEET NO. 4 OF 7 SHEETS	STA. 133+00 TO STA. 147+00	CONTRACT NO.	

MILWAUKEE AVENUE IMPROVEMENTS
08/23/08
08/23-08-03.dgn

DATE	
BY	
REVIEWED	
APPROVED	
NO. OF WAY CHECKED	
FILE NAME	
NO.	

DATE	
BY	
REVIEWED	
APPROVED	
NO. OF WAY CHECKED	
FILE NAME	
NO.	

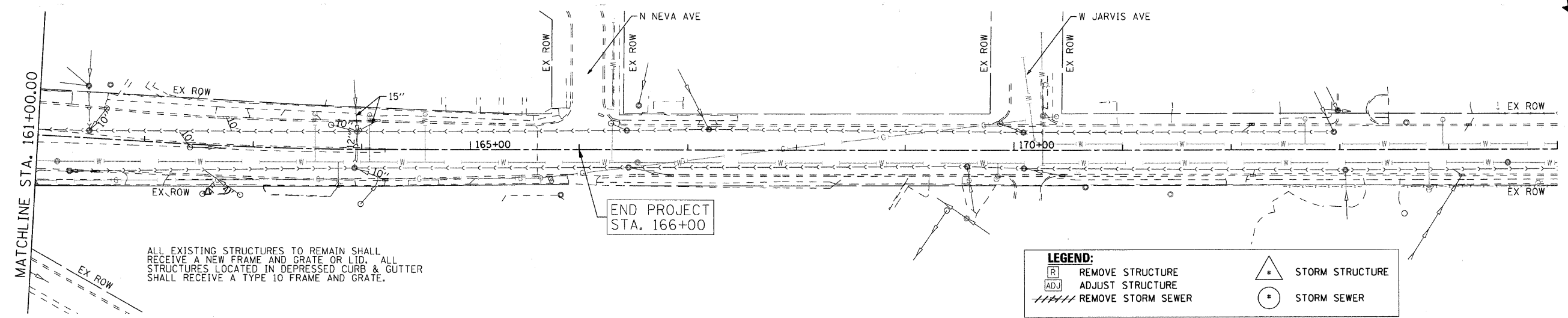
LEGEND:	
[R]	REMOVE STRUCTURE
[ADJ]	ADJUST STRUCTURE
[F]	FILL CATCH BASINS/INLETS
	REMOVE STORM SEWER
[#]	STORM STRUCTURE
[O]	STORM SEWER



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	PLOT SCALE = 1" = 50'	DRAWN - JJS	REVISED -		3513 08-00107-00-PV COOK 169 35			
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -			CONTRACT NO.			
	DATE - 12/16/08	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M-8003(723)			

DATE	
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SURVEYED	
PLAN	
NOTE BOOK	
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PT. OF WAY CHECKED	
PAID FILE NAME	

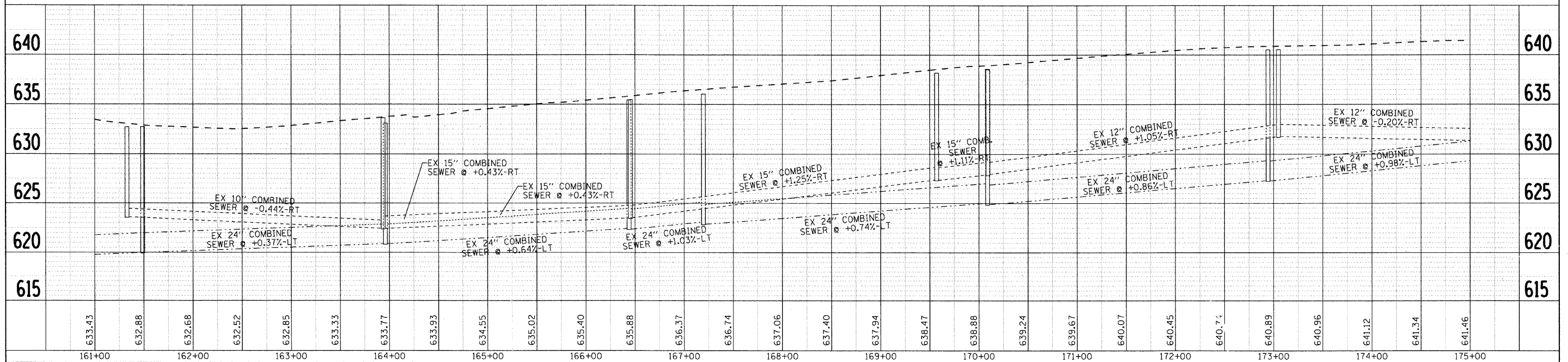
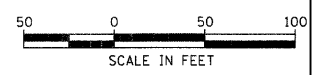
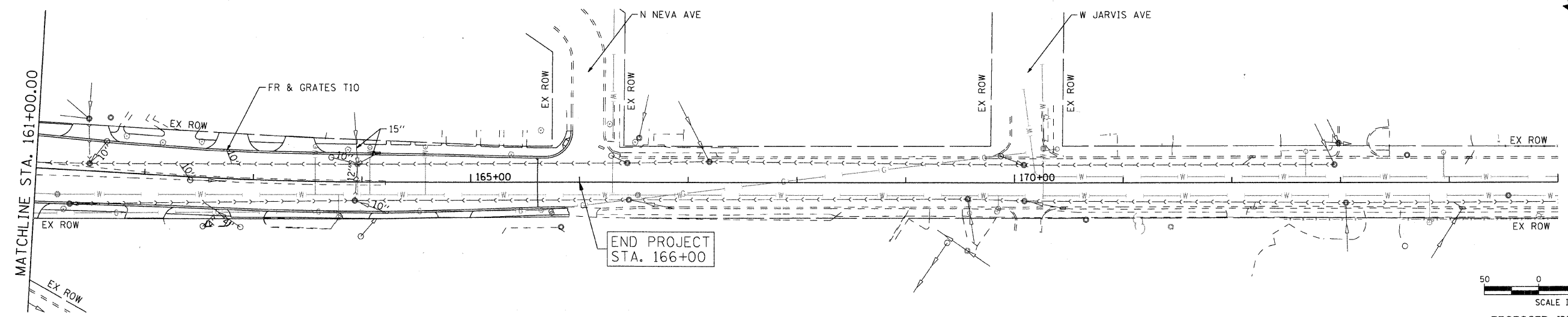
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BY	
SURVEYED	
PROFILE	
NOTE BOOK	
NO.	
PT. OF WAY CHECKED	
PAID FILE NAME	



ALL EXISTING STRUCTURES TO REMAIN SHALL RECEIVE A NEW FRAME AND GRATE OR LID. ALL STRUCTURES LOCATED IN DEPRESSED CURB & GUTTER SHALL RECEIVE A TYPE 10 FRAME AND GRATE.

LEGEND:

- R REMOVE STRUCTURE
- ADJ ADJUST STRUCTURE
- //// REMOVE STORM SEWER
- △ STORM STRUCTURE
- STORM SEWER

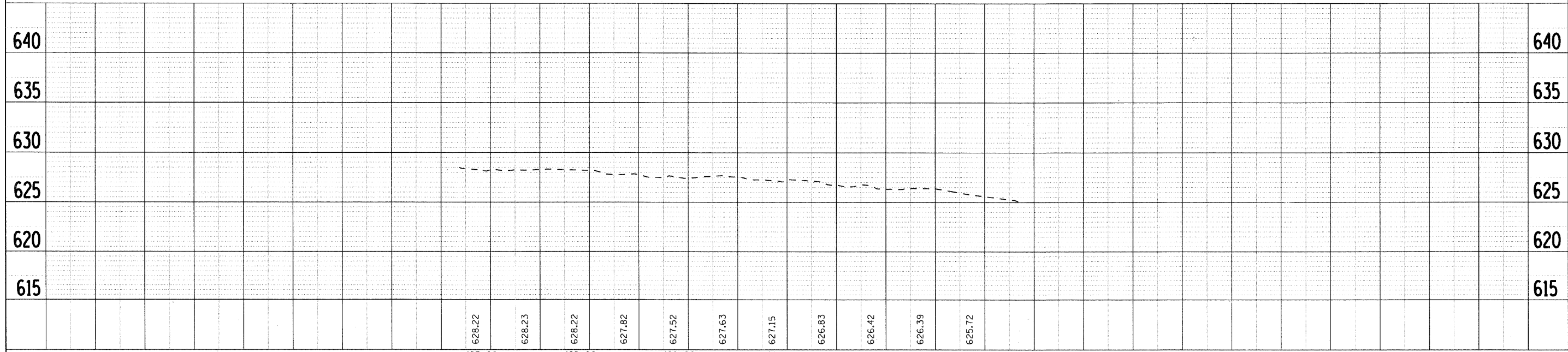
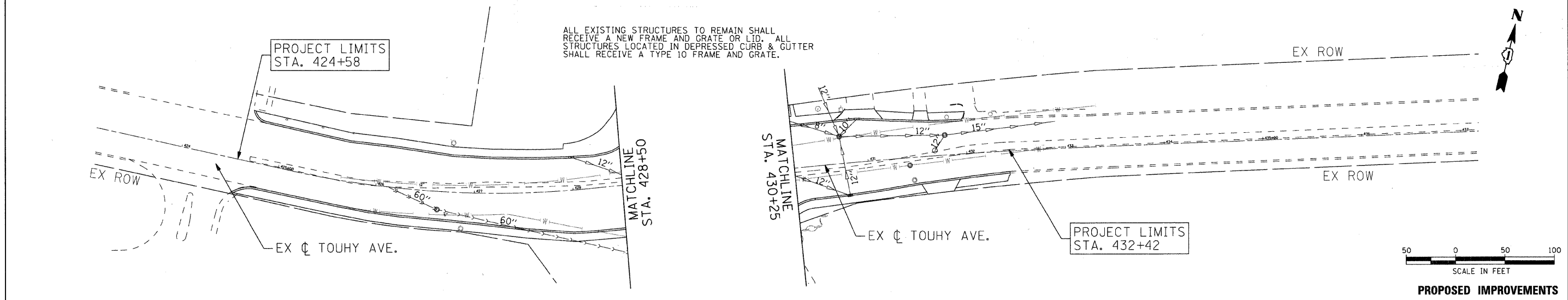
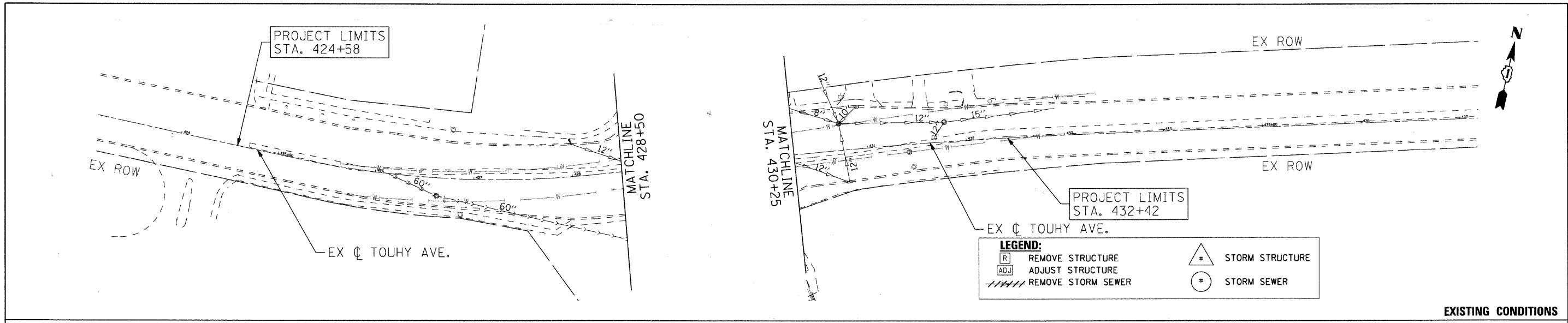


<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = char-cke	DESIGNED - JJS	REVISED -	<p>VILLAGE OF NILES</p> <p>DRAINAGE AND UTILITY PLAN AND PROFILE</p>	F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 36
	PLOT SCALE = 1" = 50' PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -		SCALE: 1" = 50' SHEET NO. 6 OF 7 SHEETS STA. 161+00 TO STA. END	CONTRACT NO. M-8003(723)			

MILWAUKEE AVENUE IMPROVEMENTS
06/23/03
06/23/03-dpp-05.dgn

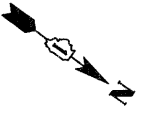
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NOTE BOOK	
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PLANNED	
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NOTE BOOK	
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NOTE BOOK	
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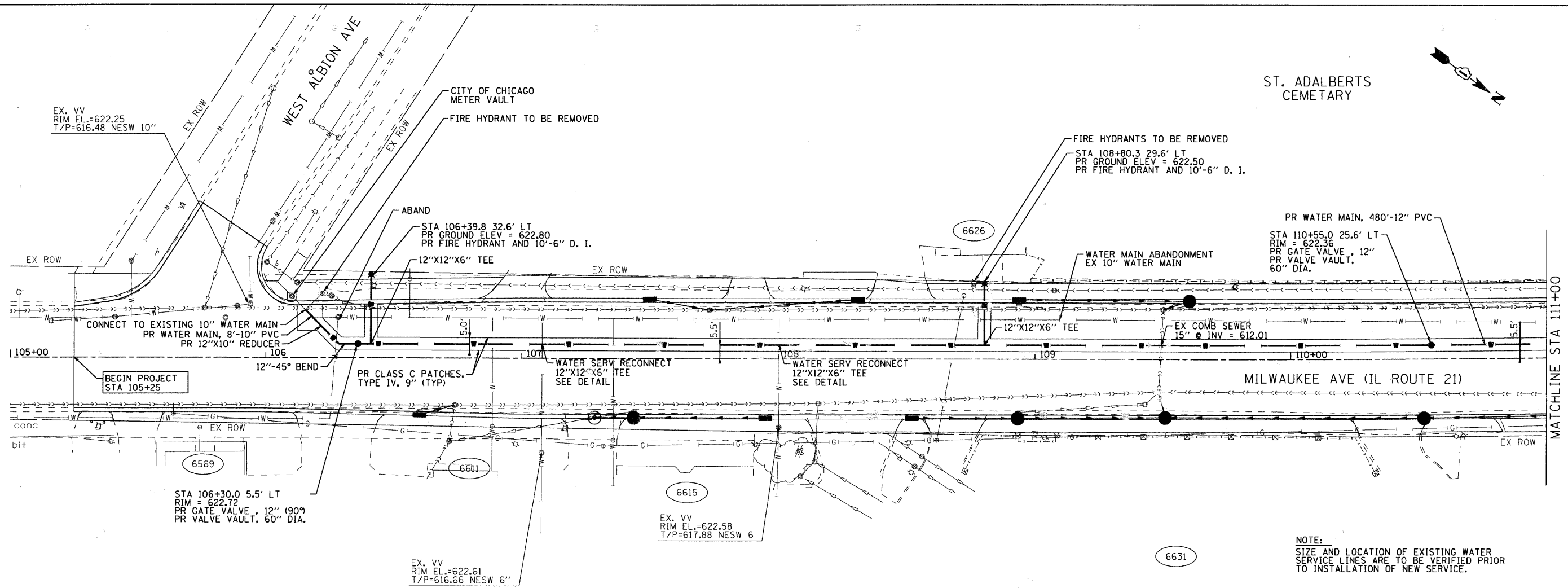
<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = che-tke	DESIGNED - JJS	REVISED -	VILLAGE OF NILES	DRAINAGE AND UTILITY PLAN AND PROFILE			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 50'	DRAWN - JJS	REVISED -		3513	08-00107-00-PV	COOK	169	37			
	PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -		CONTRACT NO. 08031723							
		DATE - 12/16/08	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M-80031723							

ST. ADALBERTS CEMETARY

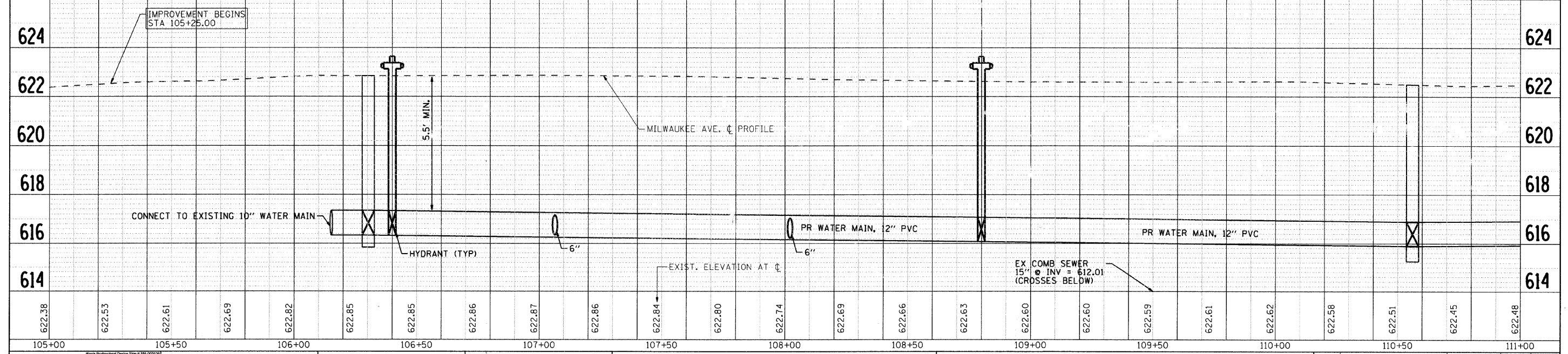
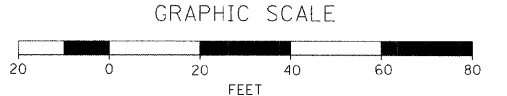


DATE	BY

DATE	BY



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.



622.38	622.53	622.61	622.69	622.82	622.85	622.85	622.86	622.87	622.86	622.84	622.80	622.74	622.69	622.66	622.63	622.60	622.60	622.59	622.61	622.62	622.58	622.51	622.45	622.48
105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00												

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USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE = 12/16/08	REVISED -

VILLAGE OF NILES

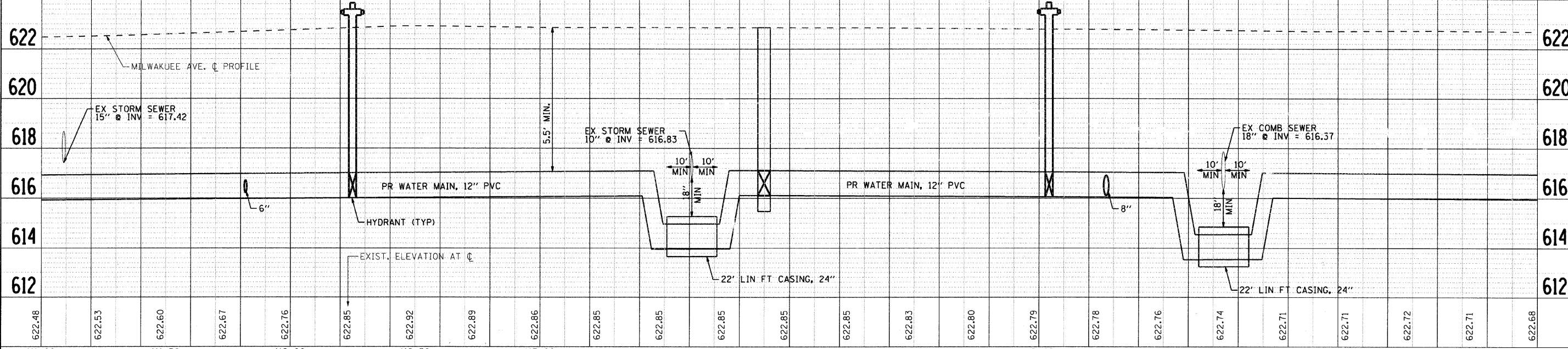
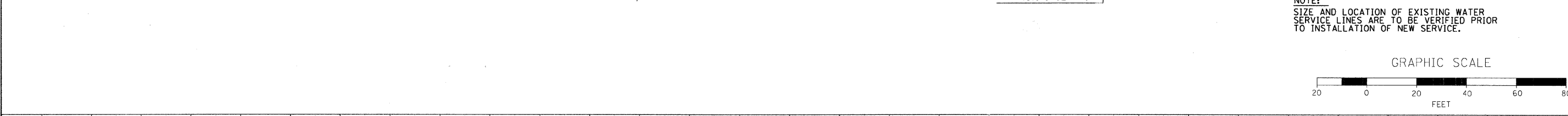
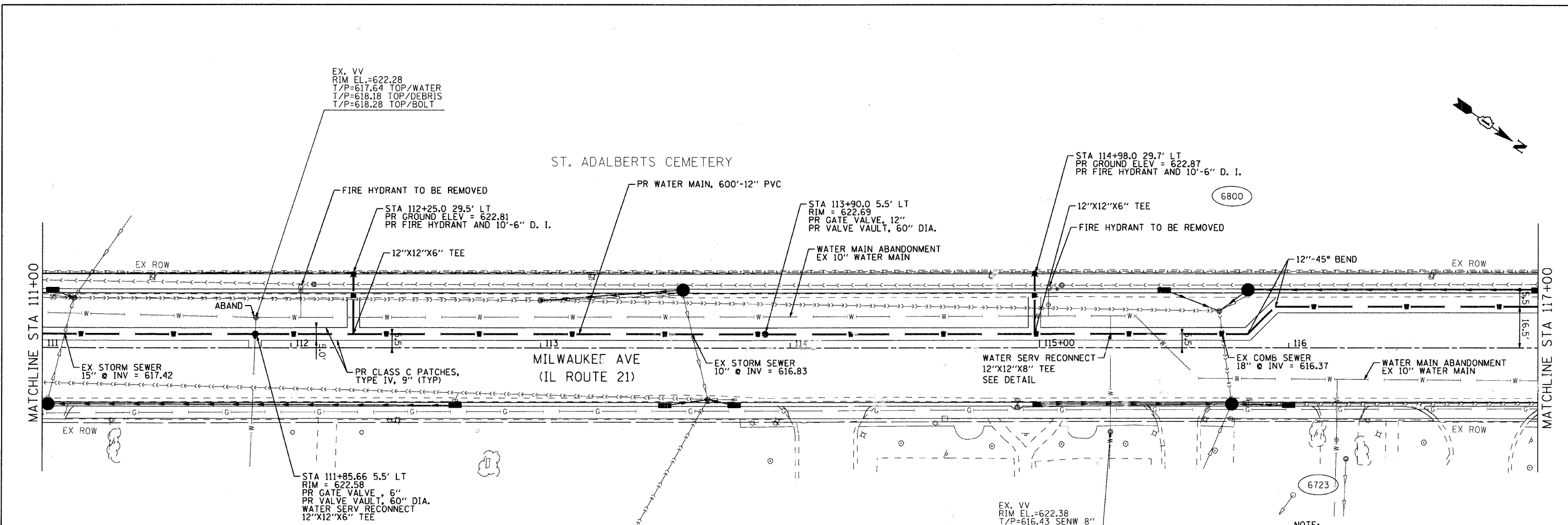
PROPOSED WATER MAIN PLAN AND PROFILE

SCALE: 1" = 20' SHEET NO. 1 OF 10 SHEETS STA. BEGIN TO STA. 111+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	38
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		M - 8003(723)

DATE	BY

DATE	BY



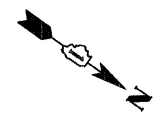
622.48	622.53	622.60	622.67	622.76	622.85	622.92	622.89	622.86	622.85	622.85	622.85	622.85	622.85	622.88	622.80	622.79	622.78	622.76	622.74	622.71	622.71	622.72	622.71	622.68
111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00												

DESIGNED - JPA	REVISED -
DRAWN - CMH	REVISED -
CHECKED - JLP	REVISED -
DATE - 12/16/08	REVISED -

USER NAME = char-tke
PLOT SCALE = 1" = 20'
PLOT DATE = 1/16/2009

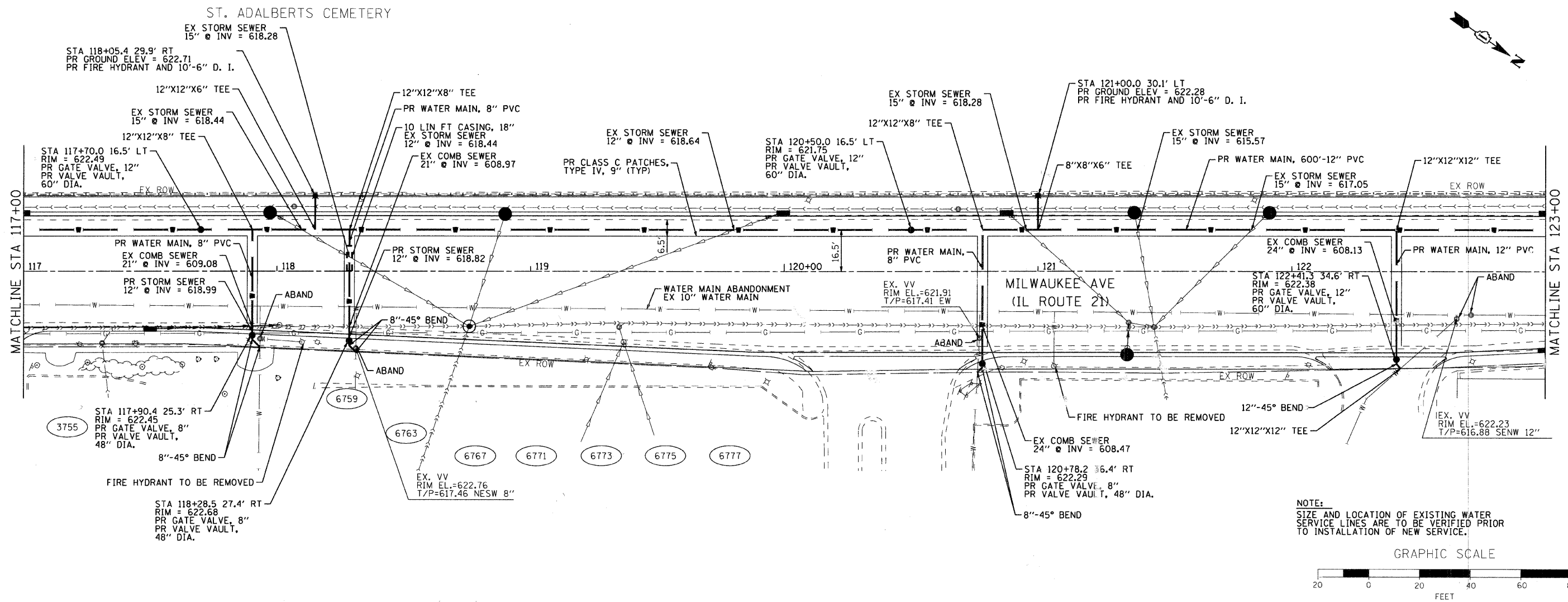
VILLAGE OF NILES	PROPOSED WATER MAIN PLAN AND PROFILE
SCALE: 1" = 20'	SHEET NO. 2 OF 10 SHEETS
STA. 111+00.00	TO STA. 117+00.00

F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 39
CONTRACT NO. M-80031723				

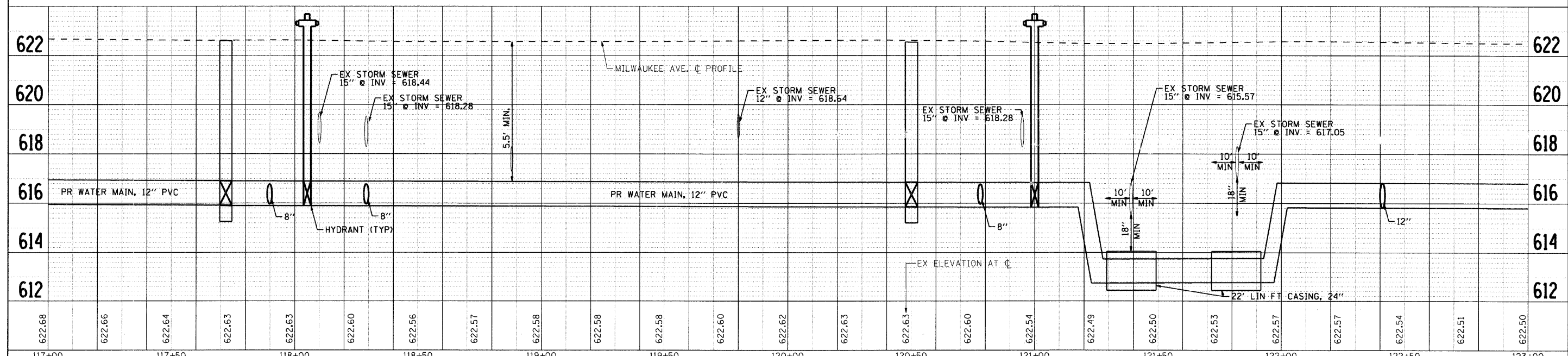


DATE	
BY	
REVISION	
NO. DATE	
PLAN	
DATE	
BY	
REVISION	
NO. DATE	
PROFILE	
DATE	
BY	
REVISION	
NO. DATE	

DATE	
BY	
REVISION	
NO. DATE	
PLAN	
DATE	
BY	
REVISION	
NO. DATE	
PROFILE	
DATE	
BY	
REVISION	
NO. DATE	



NOTE:
 SIZE AND LOCATION OF EXISTING WATER
 SERVICE LINES ARE TO BE VERIFIED PRIOR
 TO INSTALLATION OF NEW SERVICE.



622.68	622.66	622.64	622.63	622.63	622.60	622.56	622.57	622.58	622.58	622.58	622.60	622.62	622.63	622.63	622.60	622.54	622.49	622.50	622.53	622.57	622.57	622.54	622.51	622.50
117+00	117+50	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00												

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USER NAME = char tke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

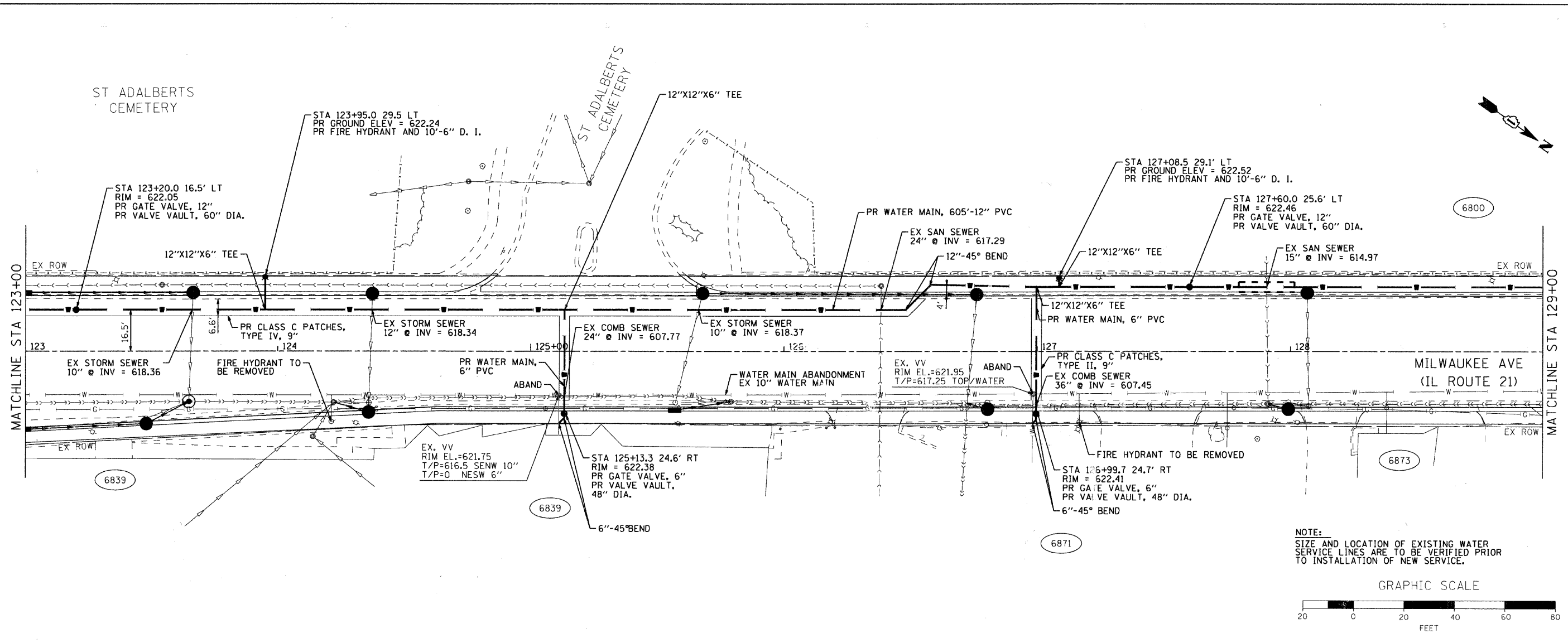
PROPOSED WATER MAIN PLAN AND PROFILE

SCALE: 1" = 20' SHEET NO. 3 OF 10 SHEETS STA. 117+00.00 TO STA. 123+00.00

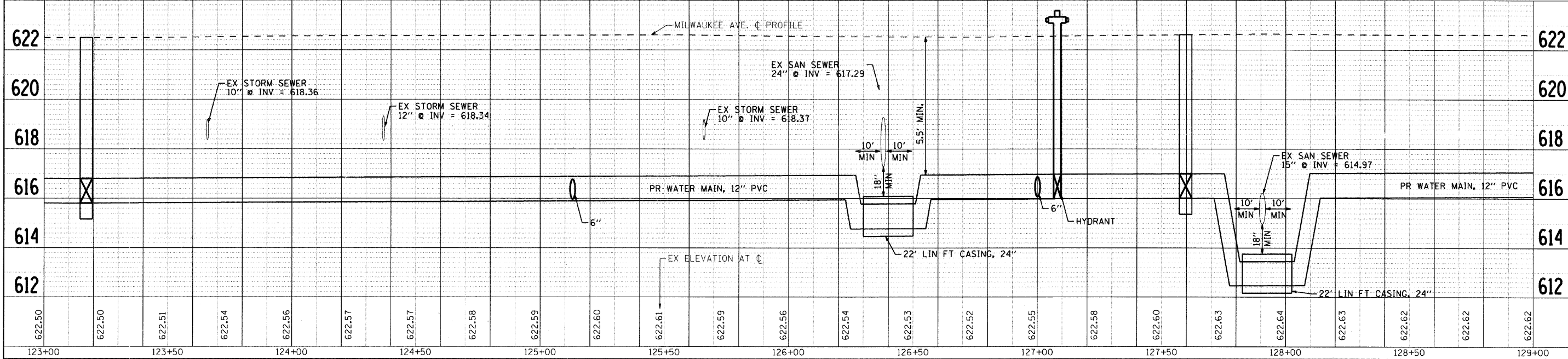
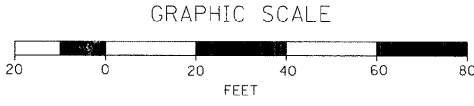
F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 40
CONTRACT NO.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)		

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
NO.	



NOTE:
 SIZE AND LOCATION OF EXISTING WATER
 SERVICE LINES ARE TO BE VERIFIED PRIOR
 TO INSTALLATION OF NEW SERVICE.



123+00	123+50	124+00	124+50	125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00
622.50	622.50	622.51	622.54	622.55	622.57	622.57	622.58	622.59	622.60	622.61	622.61	622.62

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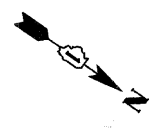
USER NAME = char tke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PROPOSED WATER MAIN PLAN AND PROFILE

SCALE: 1" = 20' SHEET NO. 4 OF 10 SHEETS STA. 123+00.00 TO STA. 129+00.00

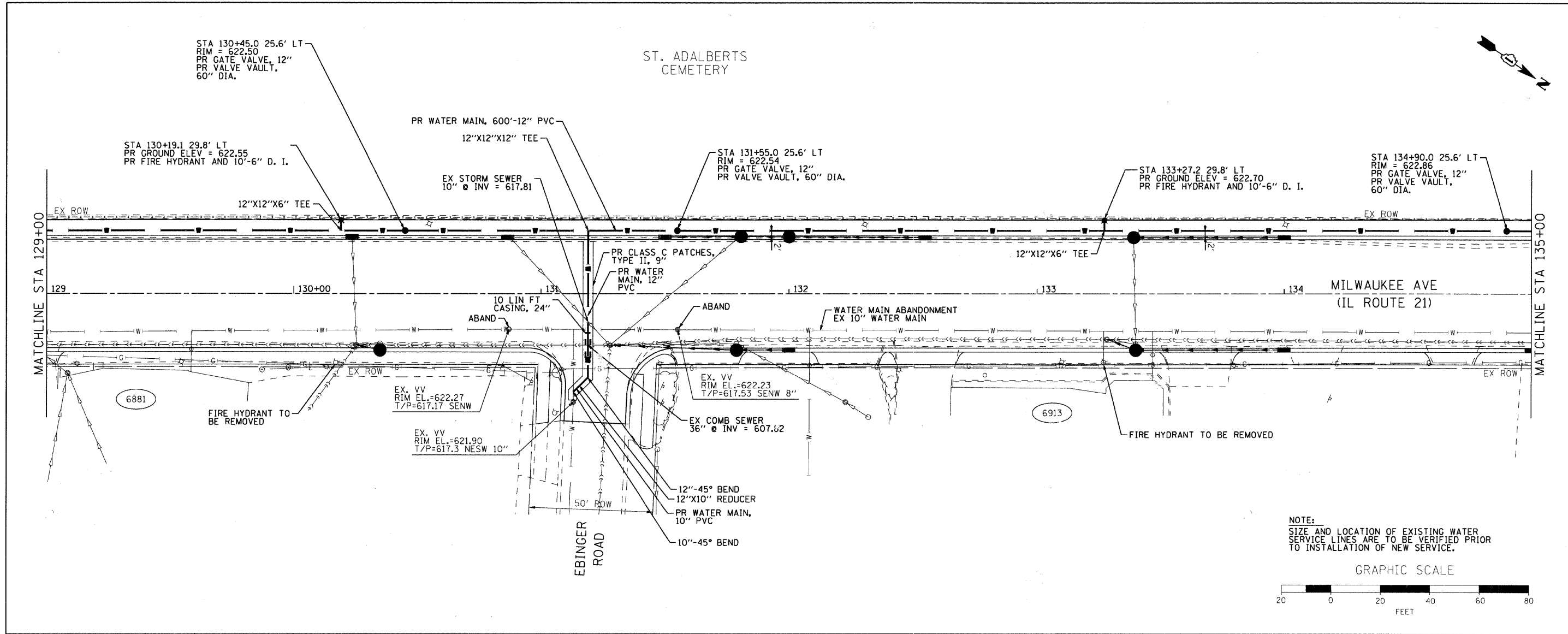
F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 41
CONTRACT NO.		ILLINOIS FED. AID PROJECT M-8003(723)		



ST. ADALBERTS CEMETERY

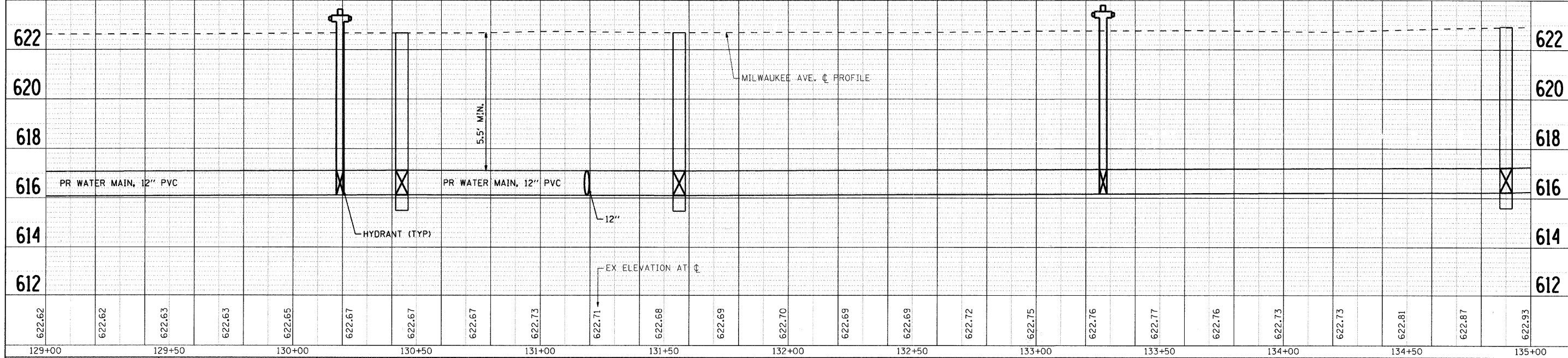
DATE	BY

DATE	BY



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.

GRAPHIC SCALE



622.62	622.62	622.63	622.63	622.65	622.67	622.67	622.67	622.73	622.71	622.68	622.69	622.70	622.69	622.69	622.72	622.75	622.76	622.77	622.76	622.73	622.73	622.81	622.87	622.93
129+00	129+50	130+00	130+50	131+00	131+50	132+00	132+50	133+00	133+50	134+00	134+50	135+00												

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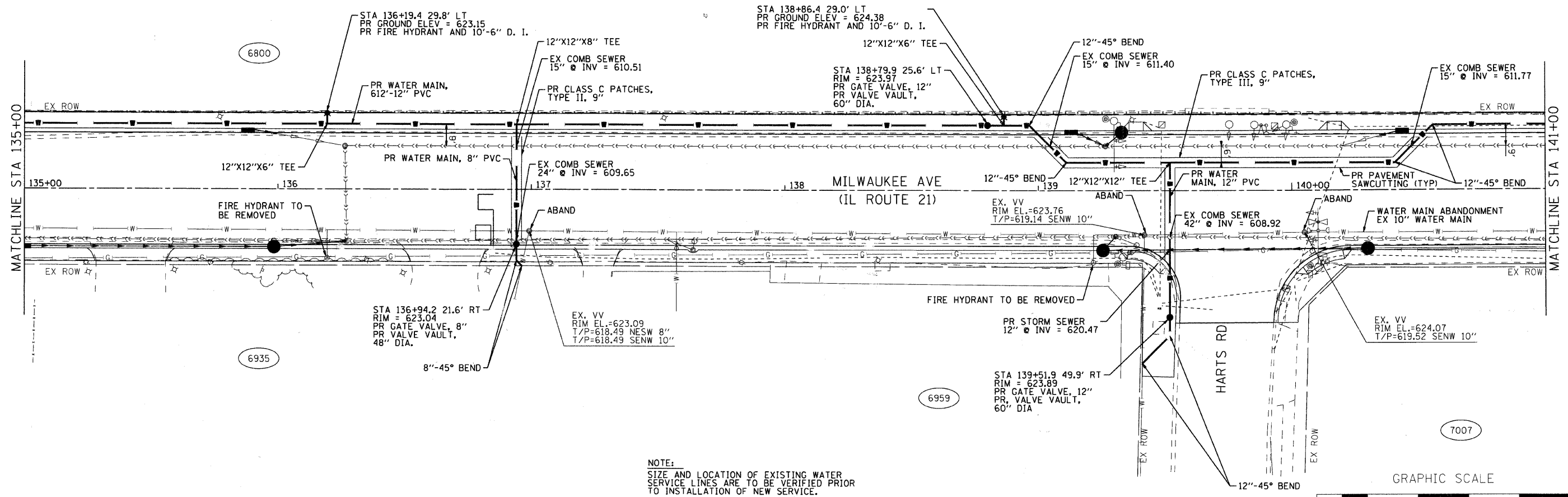
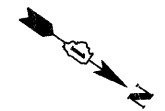
USER NAME = charlie	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

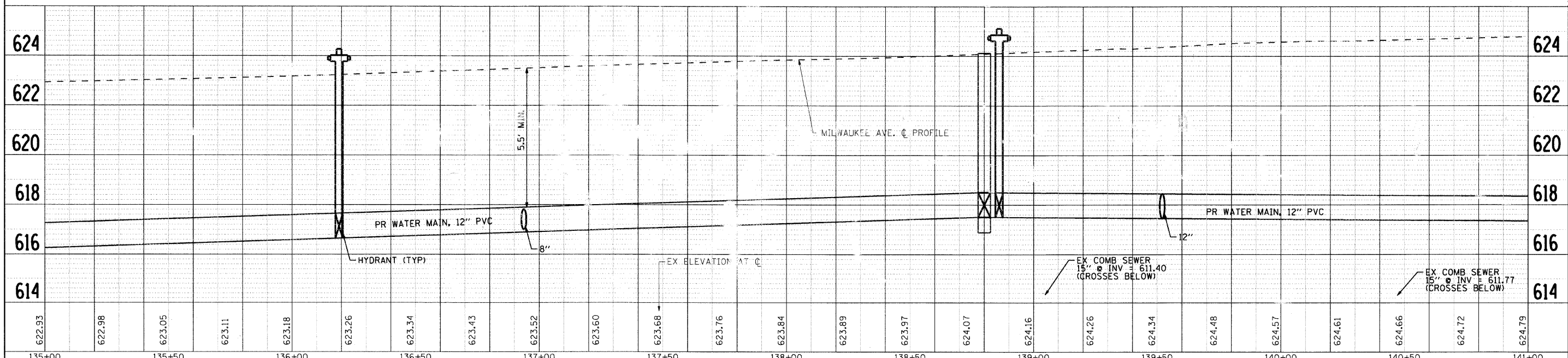
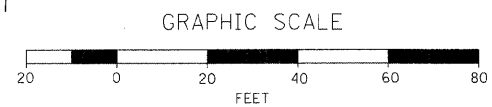
PROPOSED WATER MAIN PLAN AND PROFILE
 SCALE: 1" = 20' SHEET NO. 5 OF 10 SHEETS STA. 129+00.00 TO STA. 135+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	42
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M-8003(723)				

ST. ADALBERTS CEMETERY



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.



DATE	
BY	
SURVEYED	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PROFILE	
NOTE BOOK	
NO.	

622.93	622.98	623.05	623.11	623.18	623.26	623.34	623.43	623.52	623.60	623.68	623.76	623.84	623.89	623.97	624.07	624.16	624.26	624.34	624.48	624.57	624.61	624.66	624.72	624.79
135+00		135+50		136+00		136+50		137+00		137+50		138+00		138+50		139+00		139+50		140+00		140+50		141+00

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USER NAME = charlke	DESIGNED - JPA	REVISED -
	DRAWN - CMH	REVISED -
PLOT SCALE = 1" = 20'	CHECKED - JLP	REVISED -
PLOT DATE = 1/16/2009	DATE - 12/16/08	REVISED -

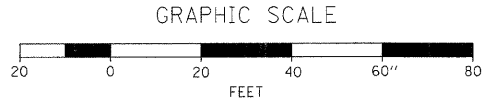
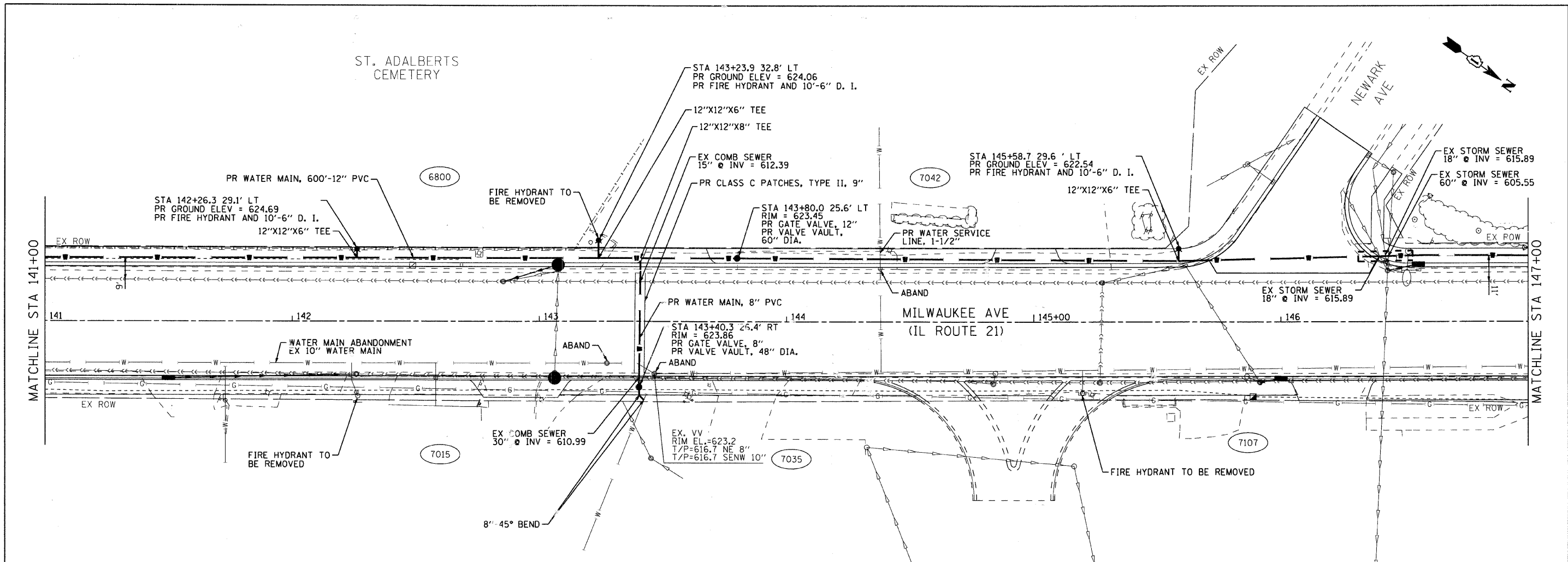
VILLAGE OF NILES	
-------------------------	--

PROPOSED WATER MAIN PLAN AND PROFILE			
SCALE: 1" = 20'	SHEET NO. 6 OF 10 SHEETS	STA. 135+00.00 TO STA. 141+00.00	

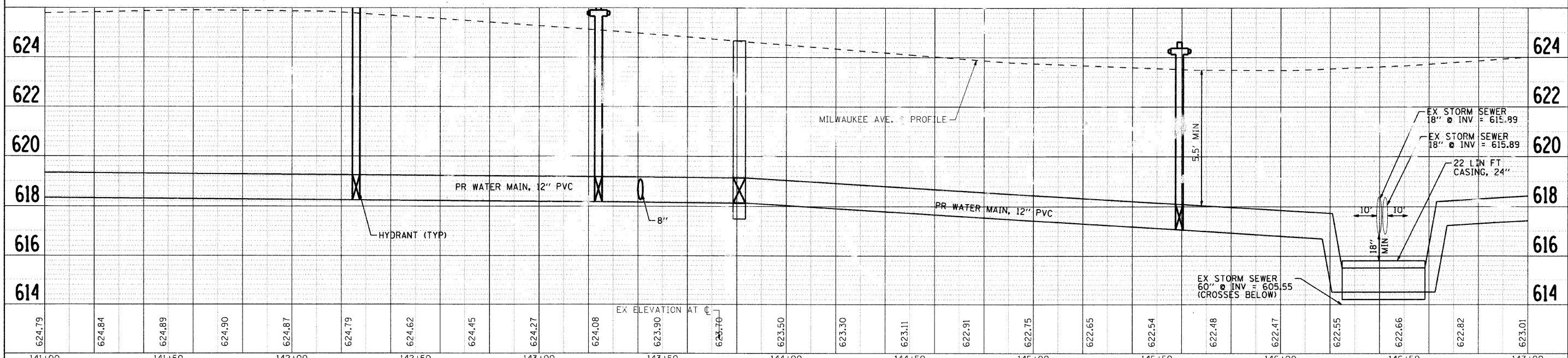
F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 43
CONTRACT NO. M-80031723				

DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO. OF WAYS CHECKED	
NO.	
FILE NAME	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS	
GRID	



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.



624.79	624.84	624.89	624.90	624.87	624.79	624.62	624.45	624.27	624.08	623.90	623.70	623.50	623.30	623.11	622.91	622.75	622.65	622.54	622.48	622.47	622.55	622.66	622.82	623.01	
141+00	141+50	142+00	142+50	143+00	143+50	144+00	144+50	145+00	145+50	146+00	146+50	147+00													

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USER NAME = charlke	DESIGNED - JPA	REVISED -
PLLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

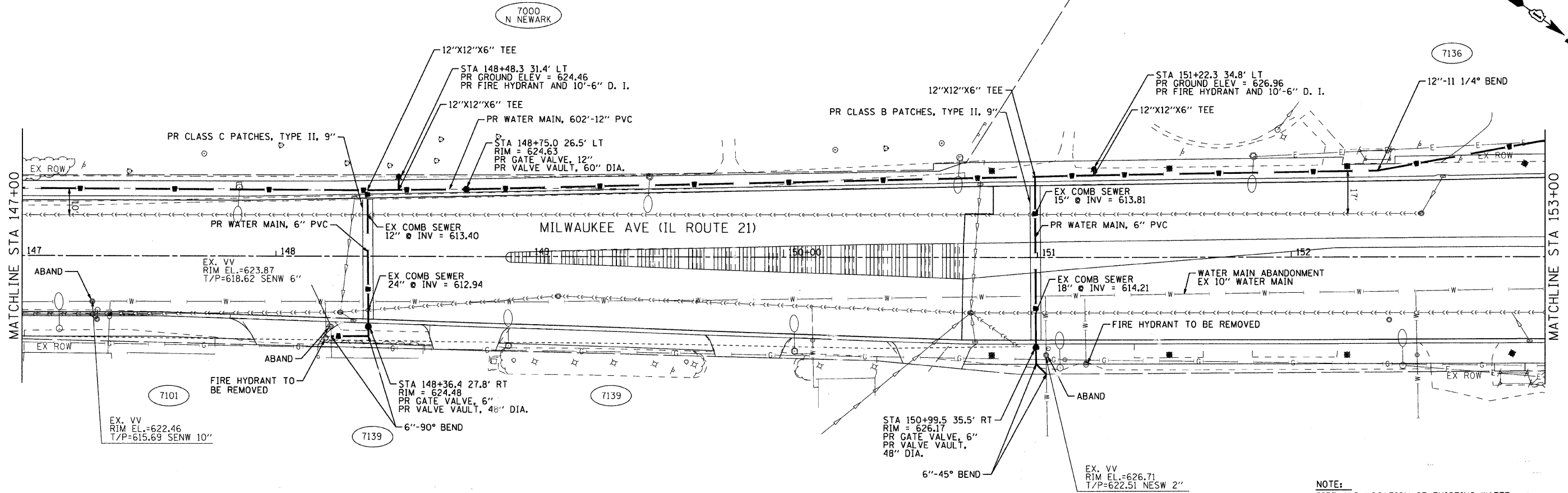
PROPOSED WATER MAIN PLAN AND PROFILE

SCALE: 1" = 20' SHEET NO. 7 OF 10 SHEETS STA. 141+00.00 TO STA. 147+00.00

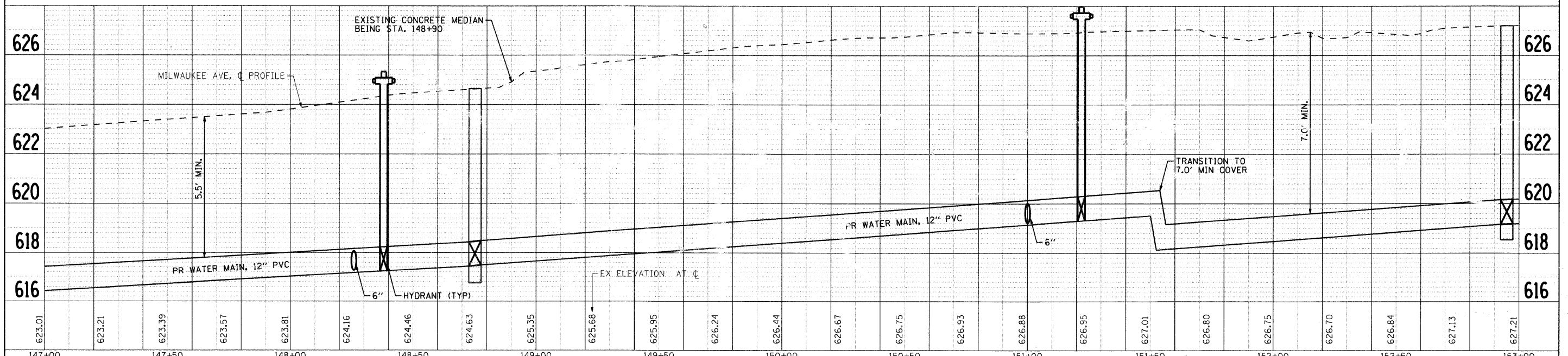
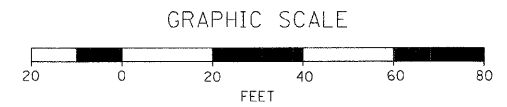
F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 44
CONTRACT NO. ILLINOIS FED. AID PROJECT M-8003(723)				

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROF. FILE	
NO.	

DATE	
BY	
PROF. FILE	
NO.	



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.



623.01	623.21	623.39	623.57	623.81	624.16	624.46	624.63	625.35	625.68	625.95	626.24	626.44	626.67	626.75	626.93	626.88	626.95	627.01	626.80	626.75	626.70	626.84	627.13	627.21	
147+00	147+50	148+00	148+50	149+00	149+50	150+00	150+50	151+00	151+50	152+00	152+50	153+00													

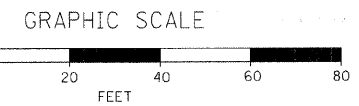
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USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

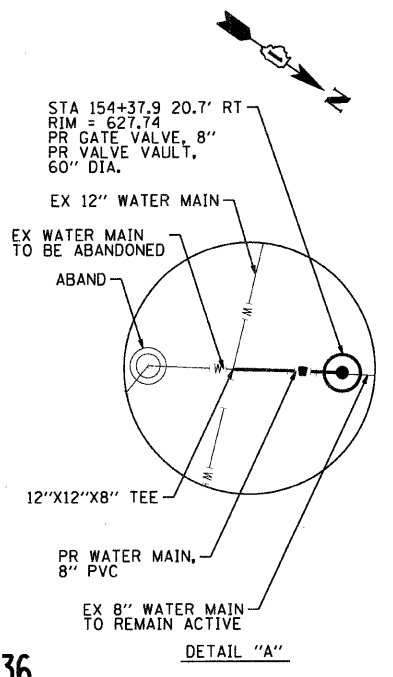
VILLAGE OF NILES

PROPOSED WATER MAIN PLAN AND PROFILE
 SCALE: 1" = 20' SHEET NO. 8 OF 10 SHEETS STA. 147+00.00 TO STA. 153+00.00

F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 45
CONTRACT NO.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)		



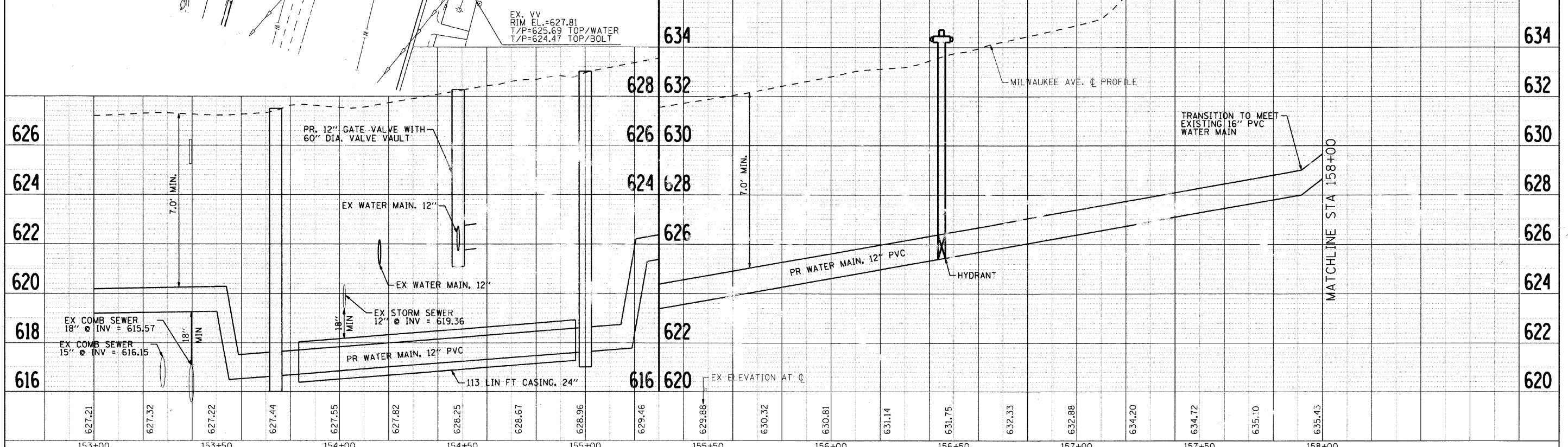
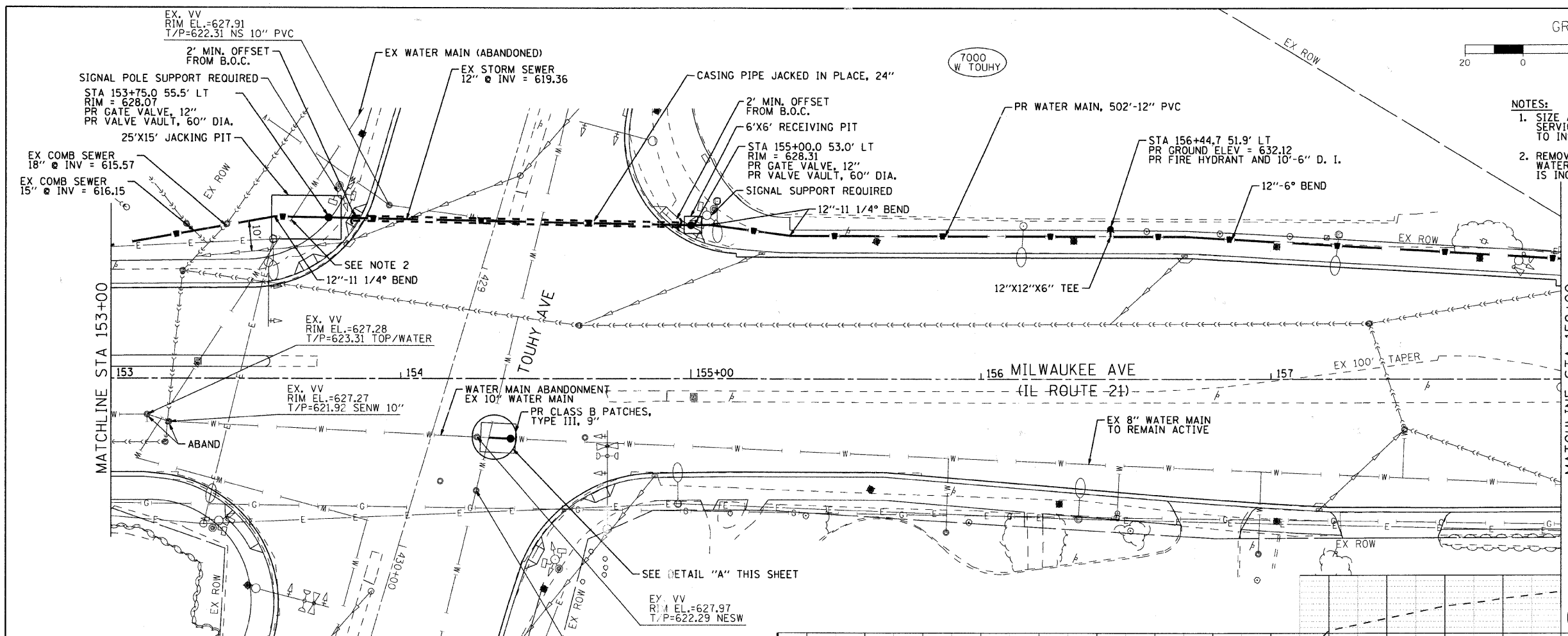
- NOTES:
1. SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.
 2. REMOVE SECTION OF EXISTING ABANDONED WATER MAIN AND CUT AND CAP. THE COST IS INCIDENTAL TO THE CONTRACT.



636

DATE	BY

DATE	BY



626	624	622	620	618	616	634	632	630	628	626	624	622	620	616	620	622	624	626	628	630	632	634
153+00	153+21	153+32	153+44	153+55	153+82	154+25	154+67	155+96	156+46	157+88	159+32	160+81	162+14	163+75	165+33	167+88	170+20	172+72	175+10	178+43	181+00	183+00

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USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

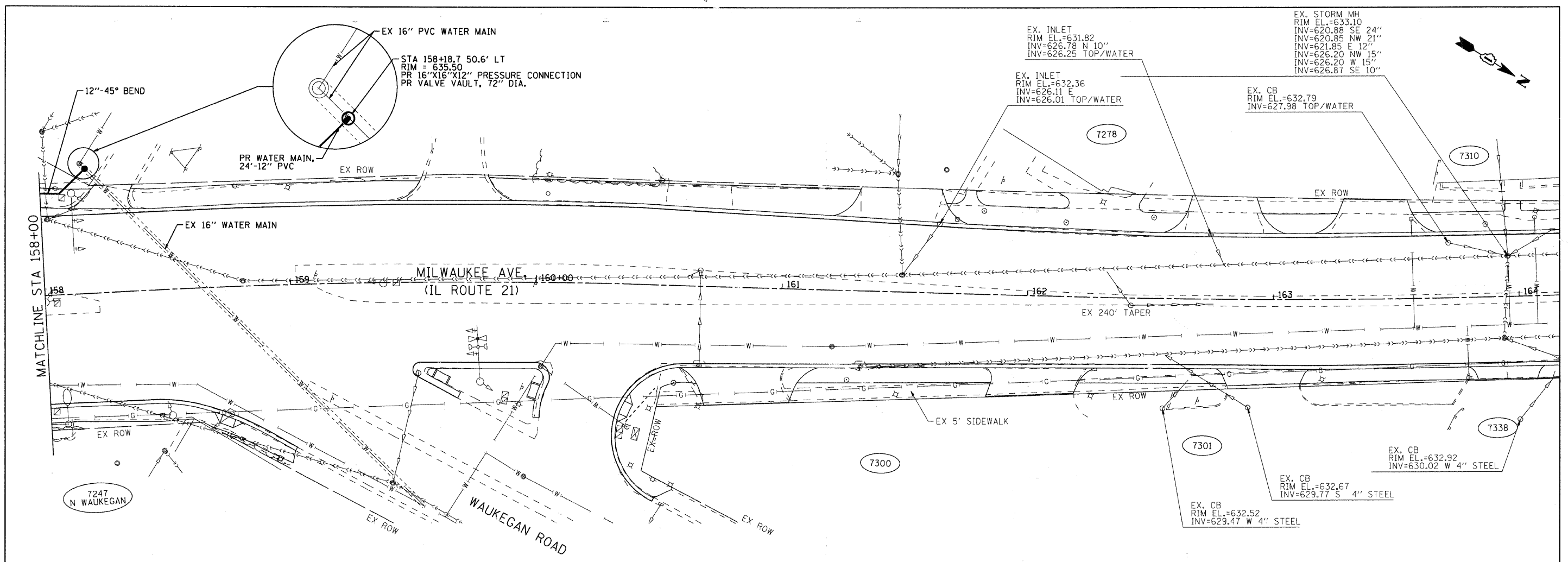
VILLAGE OF NILES

PROPOSED WATER MAIN PLAN AND PROFILE
 SCALE: 1" = 20' SHEET NO. 9 OF 10 SHEETS STA. 153+00.00 TO STA. 158+00.00

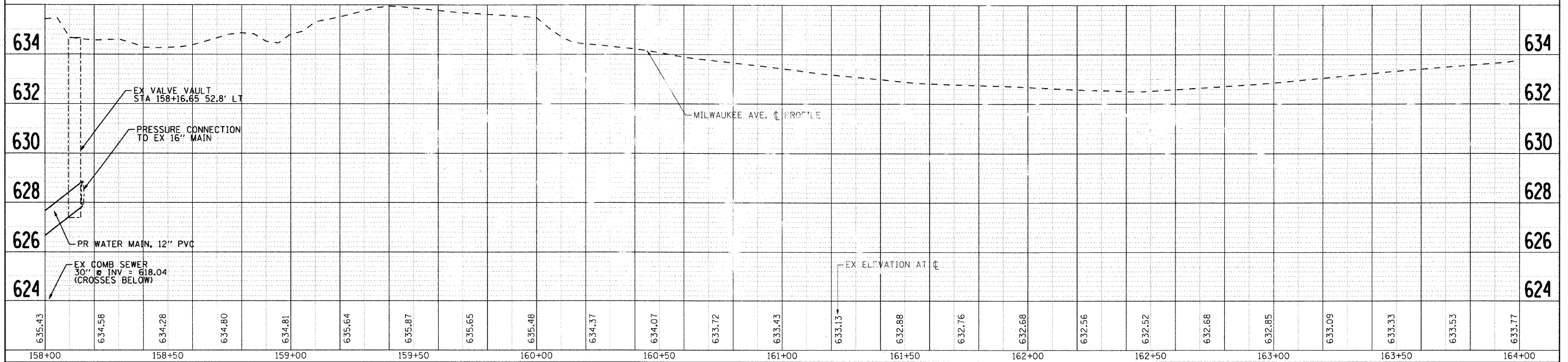
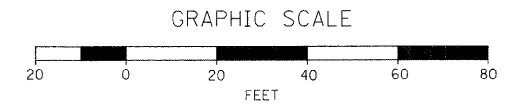
F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 46
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				

DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NO. OF WAY CHECKED	
DATE FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PROPOSED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS	
PROFILE	
NOTE BOOK	
NO.	



NOTE:
 SIZE AND LOCATION OF EXISTING WATER SERVICE LINES ARE TO BE VERIFIED PRIOR TO INSTALLATION OF NEW SERVICE.



635.43	634.58	634.28	634.80	634.81	635.64	635.87	635.65	635.48	634.37	634.07	633.72	633.43	633.13	632.88	632.76	632.68	632.56	632.52	632.68	632.85	633.09	633.33	633.53	633.77
158+00	158+50	159+00	159+50	160+00	160+50	161+00	161+50	162+00	162+50	163+00	163+50	164+00												

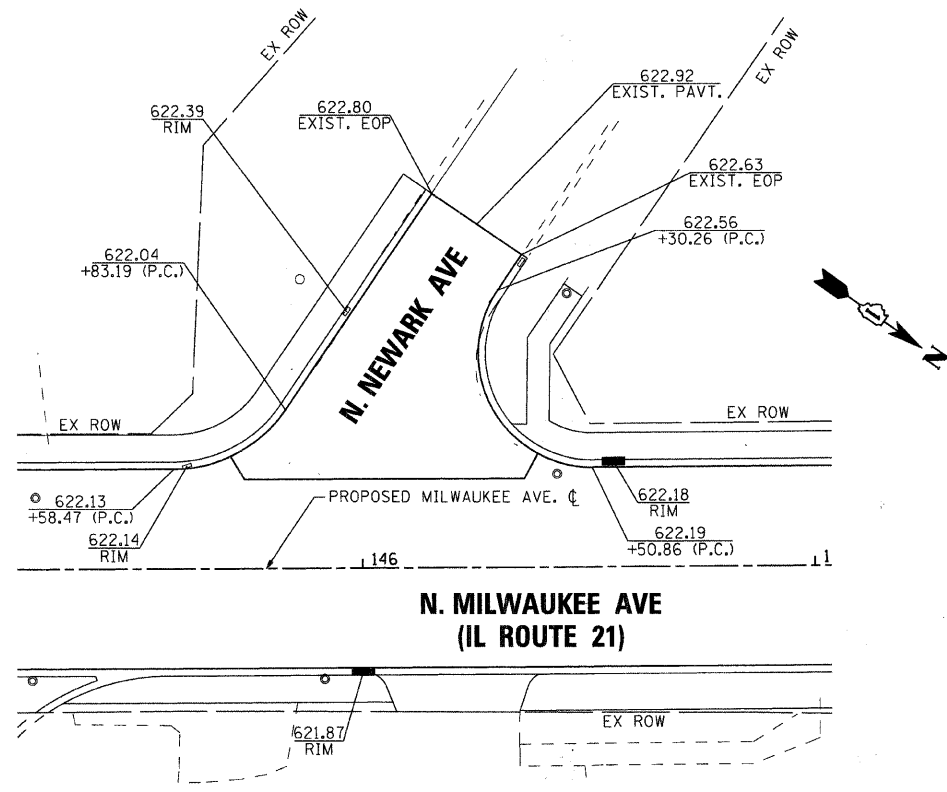
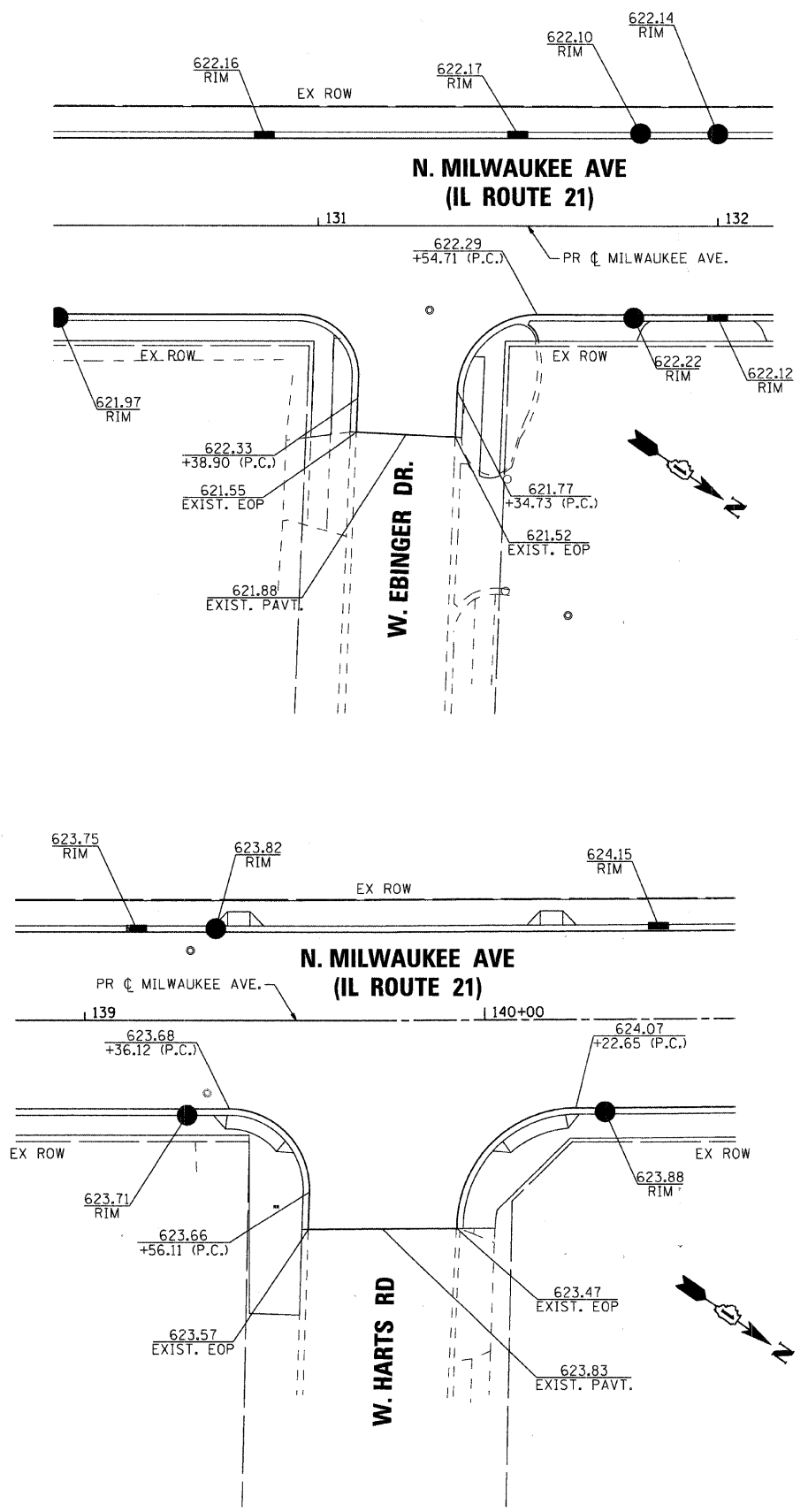
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USER NAME	char-ke	DESIGNED	JPA	REVISED	-
DRAWN	CMH	REVISIONS	-		
CHECKED	JLP	REVISIONS	-		
DATE	12/16/08	REVISIONS	-		

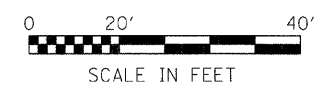
VILLAGE OF NILES

PROPOSED WATER MAIN PLAN AND PROFILE
 SCALE: 1" = 20' SHEET NO. 10 OF 10 SHEETS STA. 158+00.00 TO STA. END

F.A. R.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	47
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				



NOTE:
1. ALL ELEVATIONS AND CALLOUTS SHOWN
ARE AT THE EDGE OF PAVEMENT.



<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = charlke	DESIGNED - JPA	REVISED -	VILLAGE OF NILES	INTERSECTION GRADING PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 20'	DRAWN - JPA	REVISED -					3513	08-00107-00-PV	COOK	169	48
	PLOT DATE = 12/22/08	CHECKED - JLP	REVISED -					CONTRACT NO. 08-00107-00-PV				
	DATE - 12/16/08	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT. M-8003(723)									
				SCALE: 1" = 20'		SHEET NO. 1 OF 2 SHEETS		STA. TO STA.				



01
R1-1
(30 x 30)

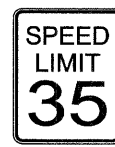
WALBION AVE

N MILWAUKEE AVE

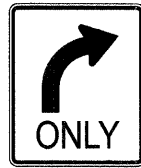
02



03
PACE BUS
STOP



04
R2-2
(24 x 24)



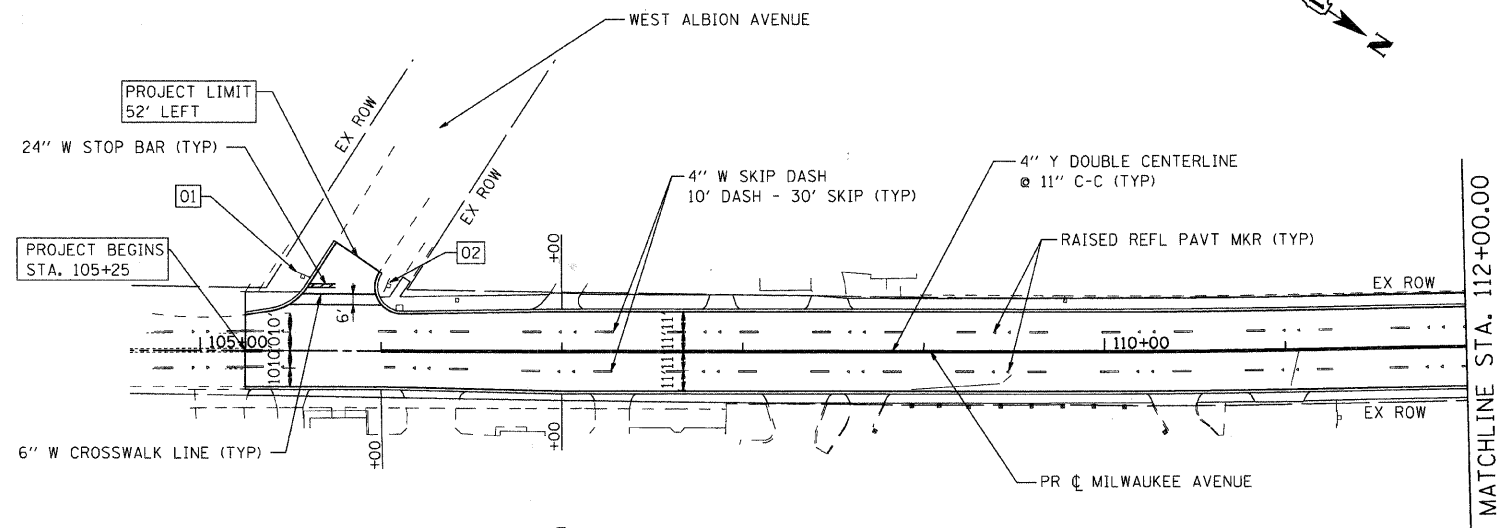
05
R3-1
(24 x 24)



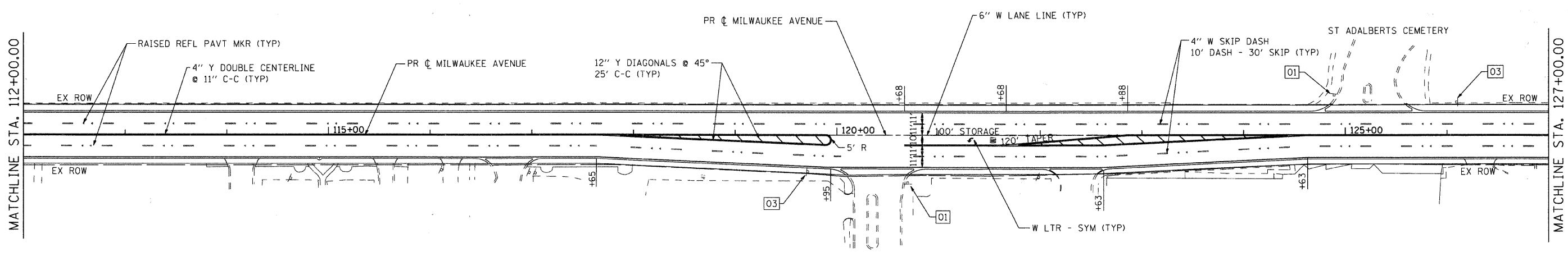
06
R7-1
(12 x 18)



07
R3-8G
(30 x 30)



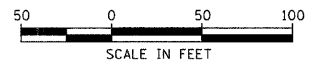
MATCHLINE STA. 112+00.00



MATCHLINE STA. 127+00.00

XX = RELOCATE SIGN PANEL
 (XX) = NEW SIGN PANEL

NOTE: ALL PAVEMENT MARKINGS ON ASPHALT SHALL BE THERMOPLASTIC AND ALL PAVEMENT MARKINGS ON CONCRETE SHALL BE POLYUREA.



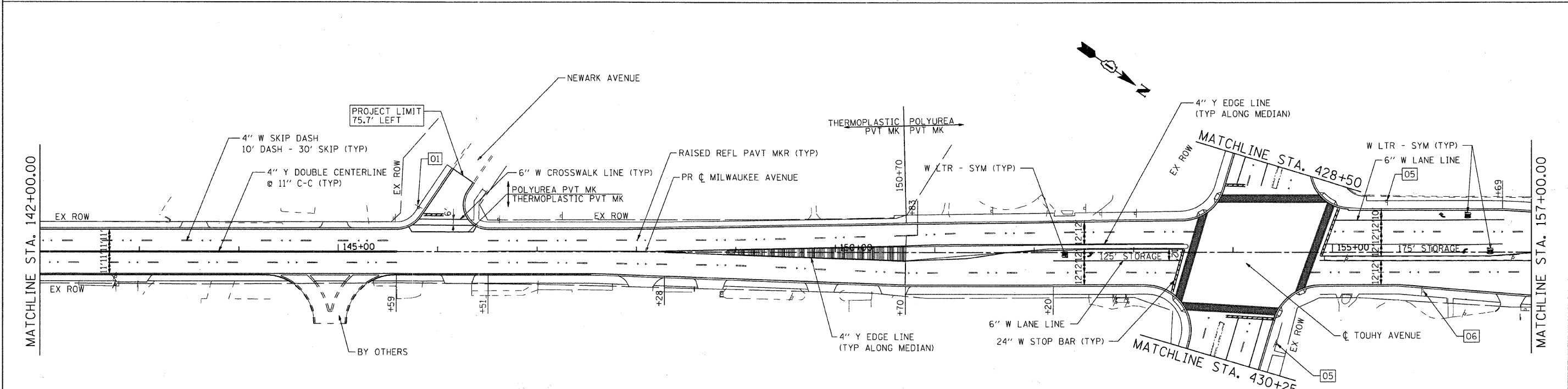
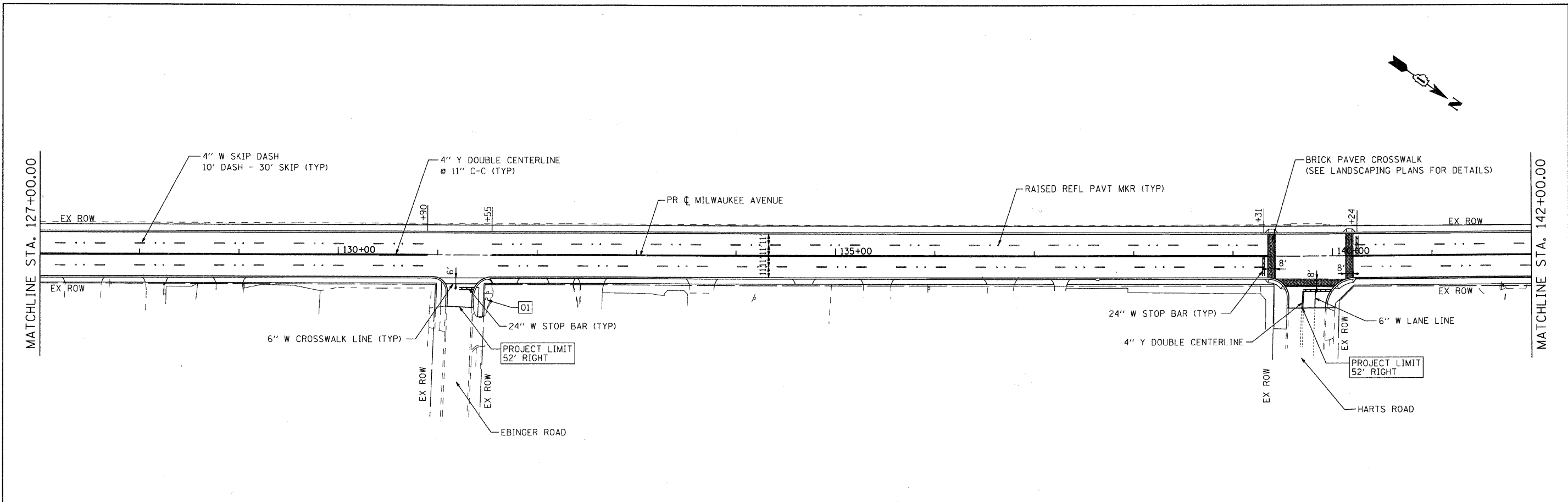
USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 1/6/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PAVEMENT MARKING AND SIGNING PLAN

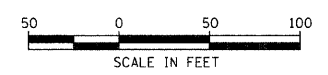
SCALE: 1" = 50' SHEET NO. 1 OF 4 SHEETS STA. BEGIN TO STA. 127+00.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 49
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M-8003(723)		CONTRACT NO.



[XX] = RELOCATE SIGN PANEL
 (XX) = NEW SIGN PANEL

NOTE: ALL PAVEMENT MARKINGS ON ASPHALT SHALL BE THERMOPLASTIC AND ALL PAVEMENT MARKINGS ON CONCRETE SHALL BE POLYUREA.



USER NAME = charlke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 1/6/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

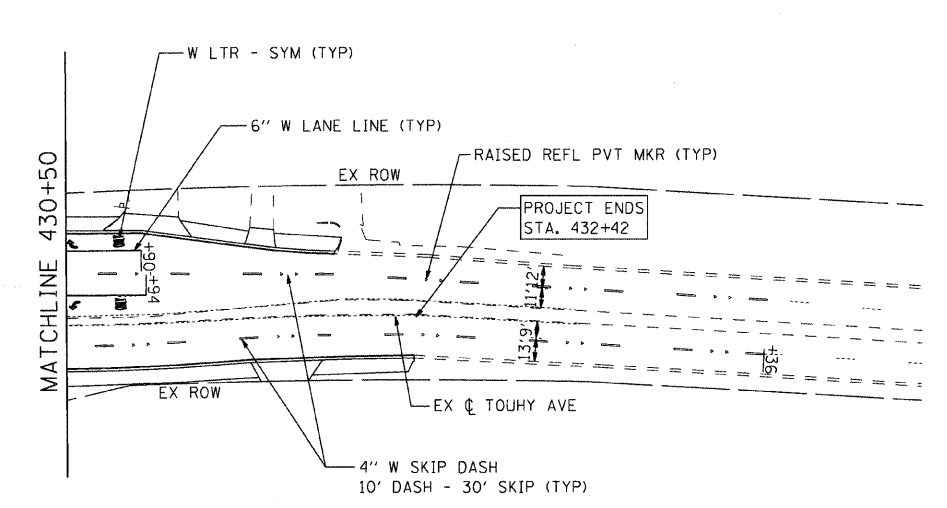
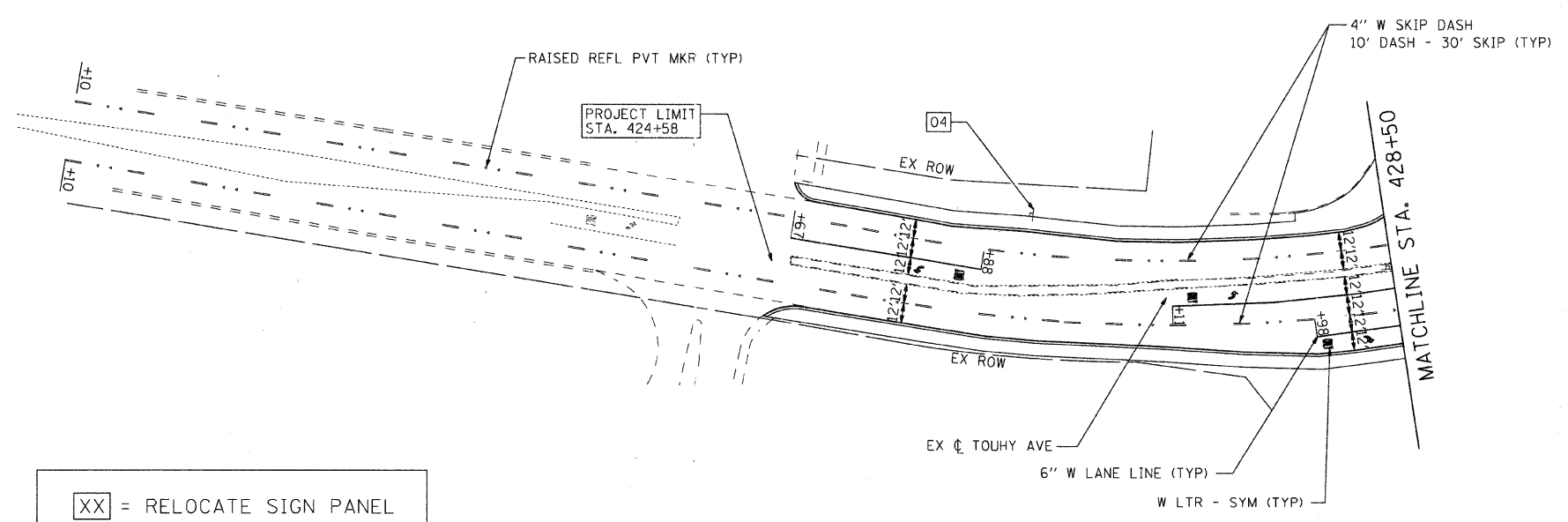
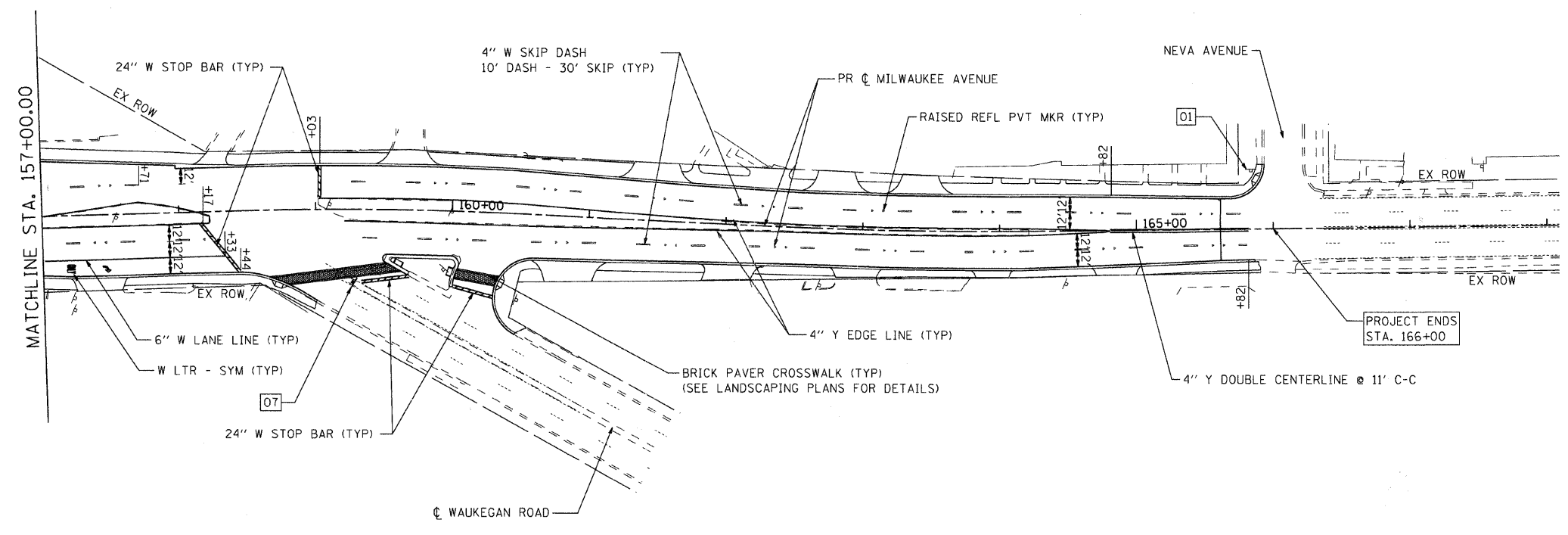
VILLAGE OF NILES

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. 127+00.00 TO STA. 157+00.00

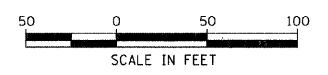
F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 50
FED. ROAD DIST. NO. [ILLINOIS]		FED. AID PROJECT M - 80031723	CONTRACT NO. [REDACTED]	

MILWAUKEE AVENUE IMPROVEMENTS 06/25/03 06/25/03-pm-02.dgn



XX = RELOCATE SIGN PANEL
XX = NEW SIGN PANEL

NOTE: ALL PAVEMENT MARKINGS ON ASPHALT SHALL BE THERMOPLASTIC AND ALL PAVEMENT MARKINGS ON CONCRETE SHALL BE POLYUREA.



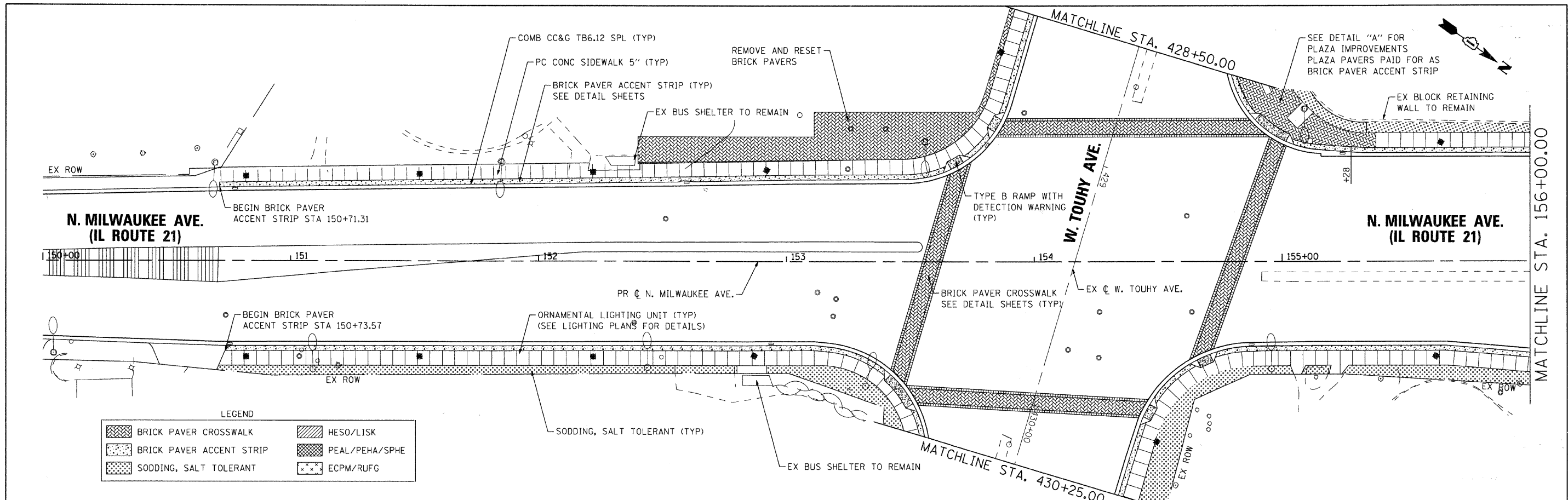
USER NAME = char lke	DESIGNED - JPA	REVISED -
PLOT SCALE = 1" = 50'	DRAWN - JPA	REVISED -
PLOT DATE = 1/6/2009	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PAVEMENT MARKING AND SIGNING PLAN

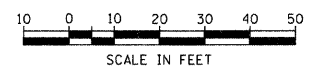
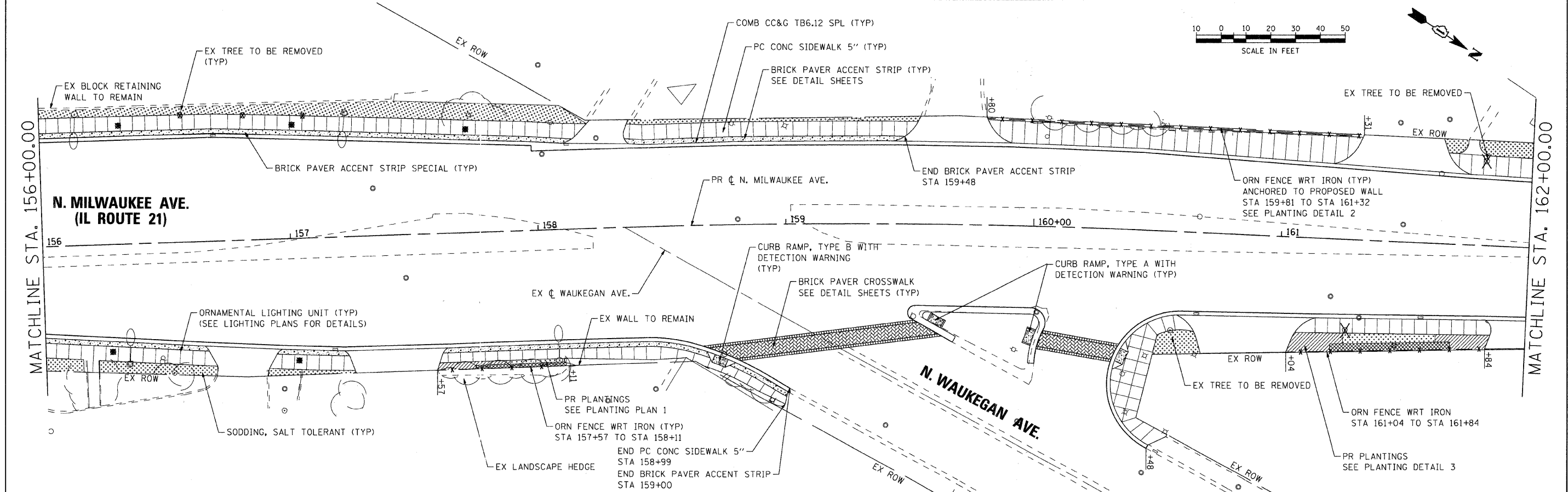
SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. 157+00.00 TO STA. END

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	51
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT M - 8003(723)	
CONTRACT NO. 23				



LEGEND

	BRICK PAVER CROSSWALK		HESO/LISK
	BRICK PAVER ACCENT STRIP		PEAL/PEHA/SPHE
	SODDING, SALT TOLERANT		ECPM/RUG



USER NAME = charlie	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -
	DATE - 12/16/08	REVISED -

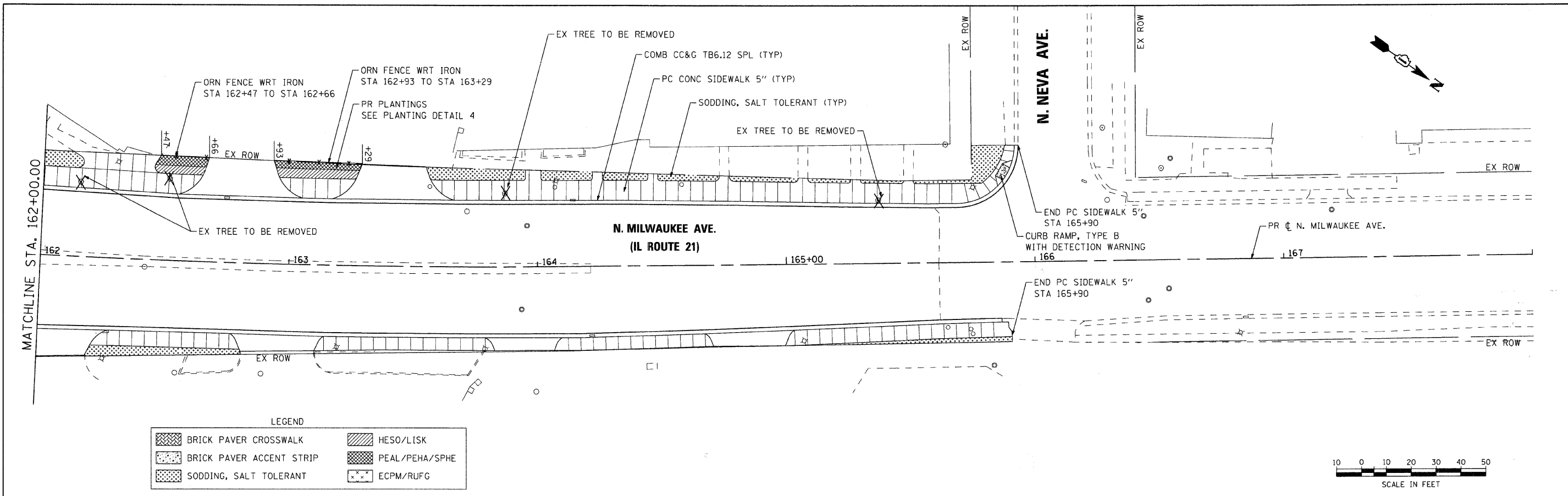
VILLAGE OF NILES

LANDSCAPE PLAN

SCALE: 1" = 20' SHEET NO. 1 OF 7 SHEETS STA. 150+00.00 TO STA. 162+00.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT M - 8003(723)		CONTRACT NO.

MILWAUKEE AVENUE IMPROVEMENTS
 060253
 060253-1a0-01.dgn



LEGEND

	BRICK PAVER CROSSWALK		HESO/LISK
	BRICK PAVER ACCENT STRIP		PEAL/PEHA/SPHE
	SODDING, SALT TOLERANT		ECPM/RUFG



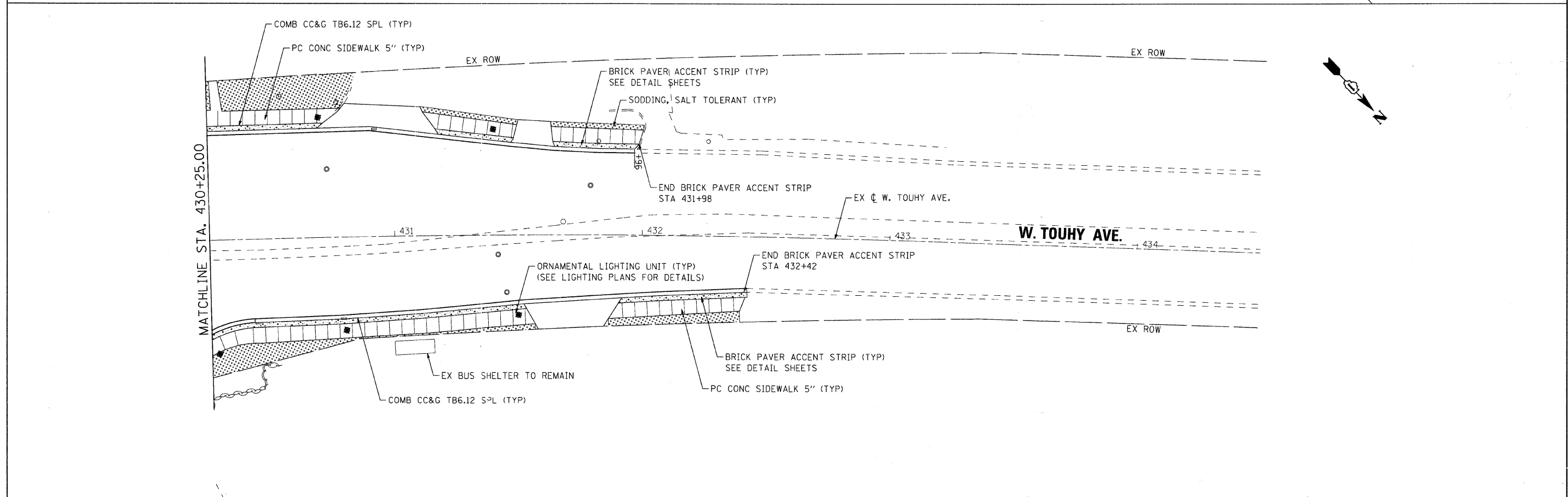
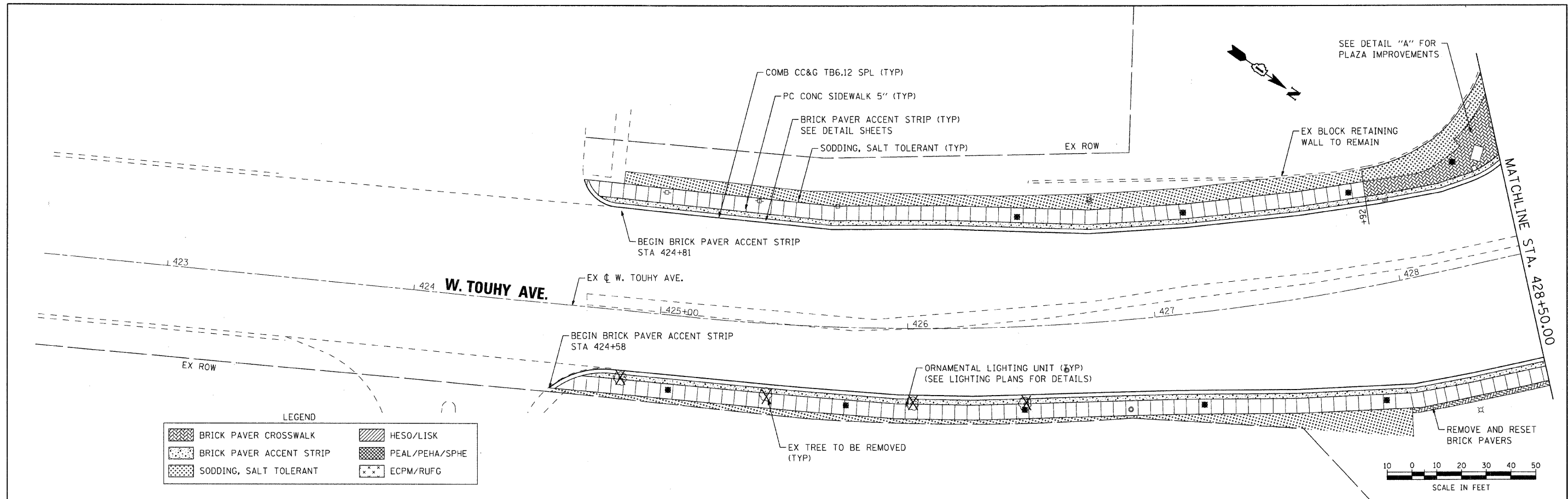
USER NAME = char tke	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

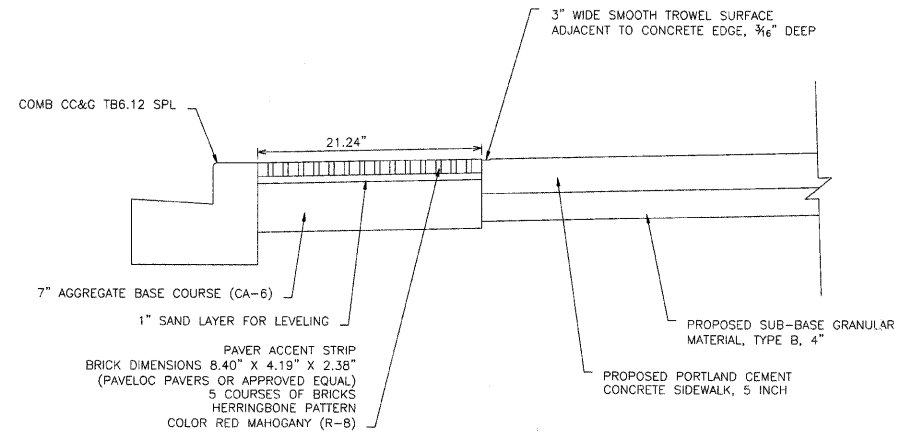
LANDSCAPE PLAN

SCALE: 1" = 20' SHEET NO. 2 OF 7 SHEETS STA. 162+00.00 TO STA. 166+00.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 53
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M -8003(723)		



<p>SEC Group, Inc. Engineering Site Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = char-ble	DESIGNED - MAC	REVISED -	VILLAGE OF NILES	LANDSCAPE PLAN	F.A.U. RTE. 3513	SECTION 08-00107-00-BV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 54
	PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -			SCALE: 1" = 20'	SHEET NO. 3 OF 7 SHEETS	STA. 424+00.00 TO STA. 433+00.00	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT M -8003(723)
	PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -							
		DATE - 12/16/08	REVISED -							



INSTALLATION NOTES

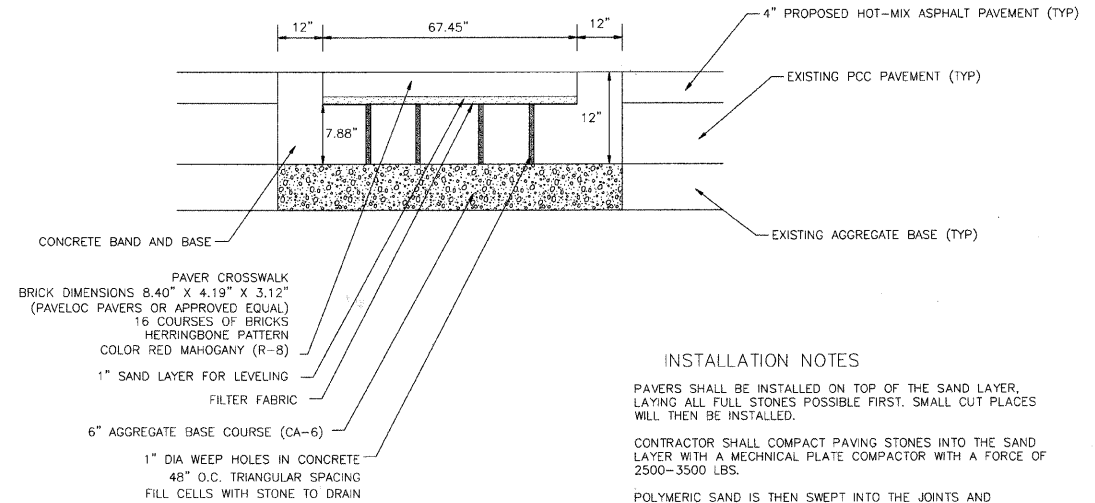
PAVERS SHALL BE INSTALLED ON TOP OF THE SAND LAYER, LAYING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PLACES WILL THEN BE INSTALLED.

CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND LAYER WITH A MECHANICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.

POLYMERIC SAND IS THEN SWEEPED INTO THE JOINTS AND VIBRATED UNTIL THE JOINT ARE FULL.

THE PAVERS SHALL BE PLACED ACCORDING TO MANUFACTURER SPECIFICATIONS AND INTERLOCKING CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.

THE PAVERS SHALL BE ARRANGED IN A HERRINGBONE PATTERN



INSTALLATION NOTES

PAVERS SHALL BE INSTALLED ON TOP OF THE SAND LAYER, LAYING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PLACES WILL THEN BE INSTALLED.

CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND LAYER WITH A MECHANICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.

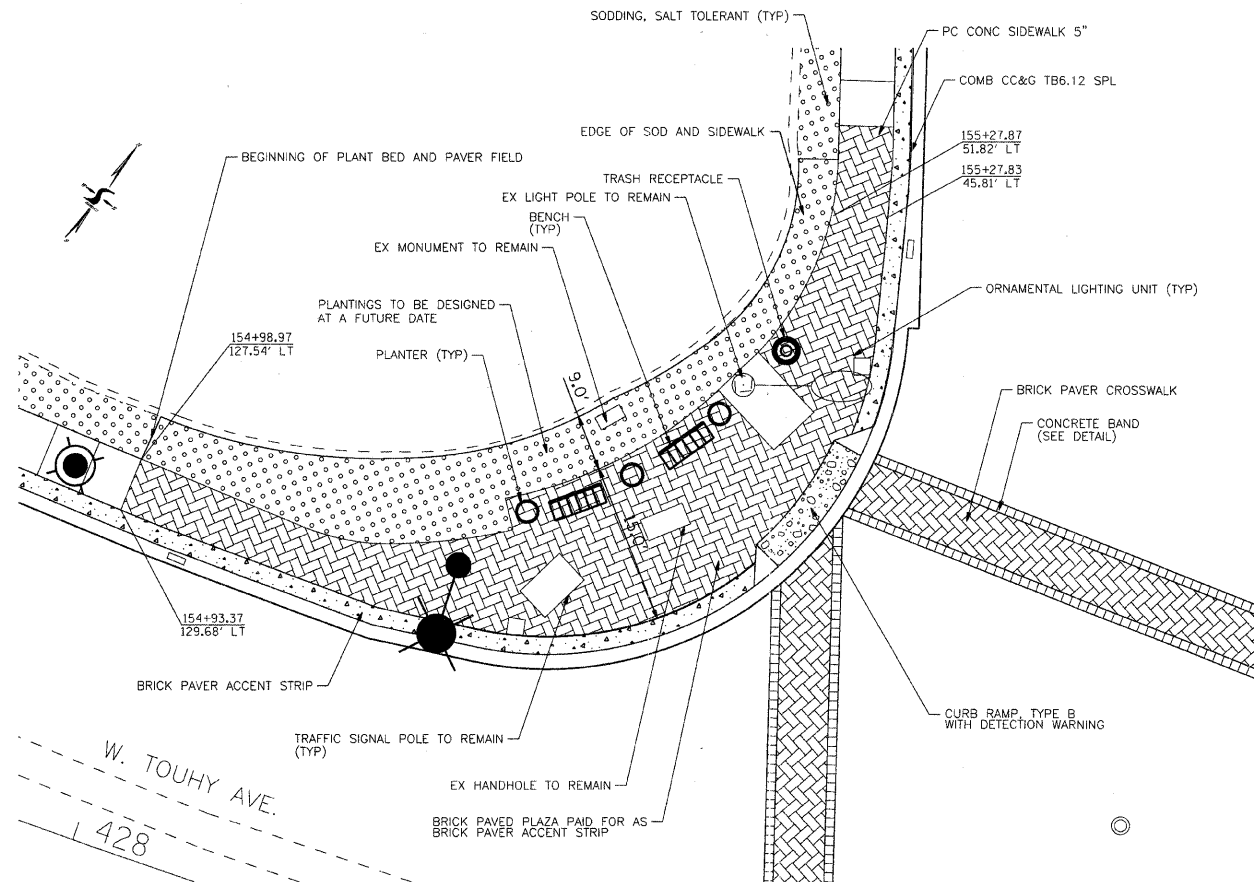
POLYMERIC SAND IS THEN SWEEPED INTO THE JOINTS AND VIBRATED UNTIL THE JOINT ARE FULL.

THE PAVERS SHALL BE PLACED ACCORDING TO MANUFACTURER SPECIFICATIONS AND INTERLOCKING CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.

THE PAVERS SHALL BE ARRANGED IN A HERRINGBONE PATTERN

BRICK PAVER ACCENT STRIP

N.T.S.

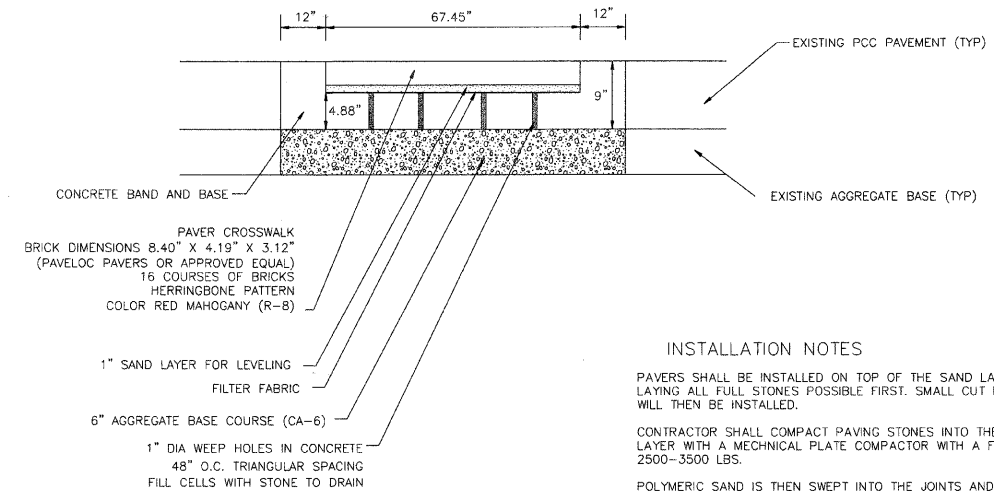


DETAIL "A"

1" = 10'

BRICK PAVER CROSSWALK (HARTS RD.)

N.T.S.



INSTALLATION NOTES

PAVERS SHALL BE INSTALLED ON TOP OF THE SAND LAYER, LAYING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PLACES WILL THEN BE INSTALLED.

CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND LAYER WITH A MECHANICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.

POLYMERIC SAND IS THEN SWEEPED INTO THE JOINTS AND VIBRATED UNTIL THE JOINT ARE FULL.

THE PAVERS SHALL BE PLACED ACCORDING TO THE PAVELOC AND INTERLOCKING CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.

THE PAVERS SHALL BE ARRANGED IN A HERRINGBONE PATTERN

BRICK PAVER CROSSWALK (WAUKEGAN RD. AND TOUHY AVE.)

N.T.S.



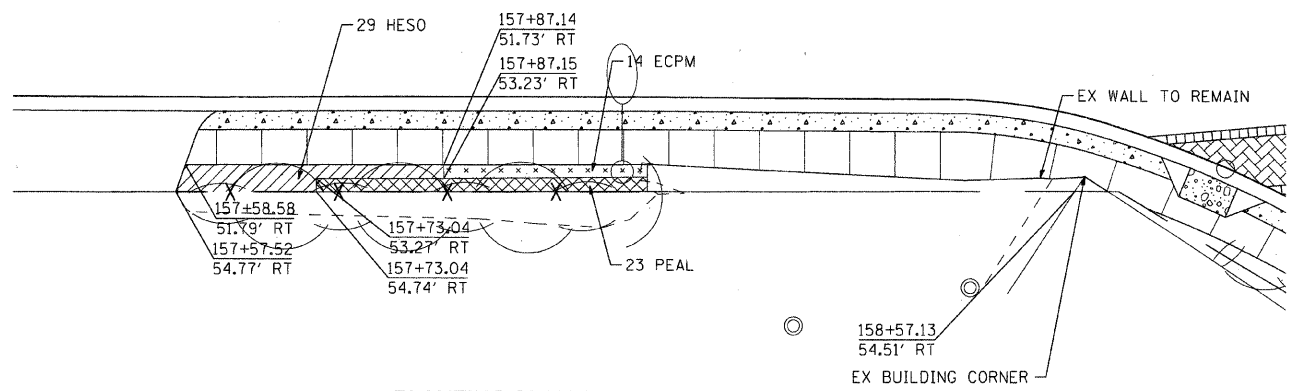
USER NAME = char-ke	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

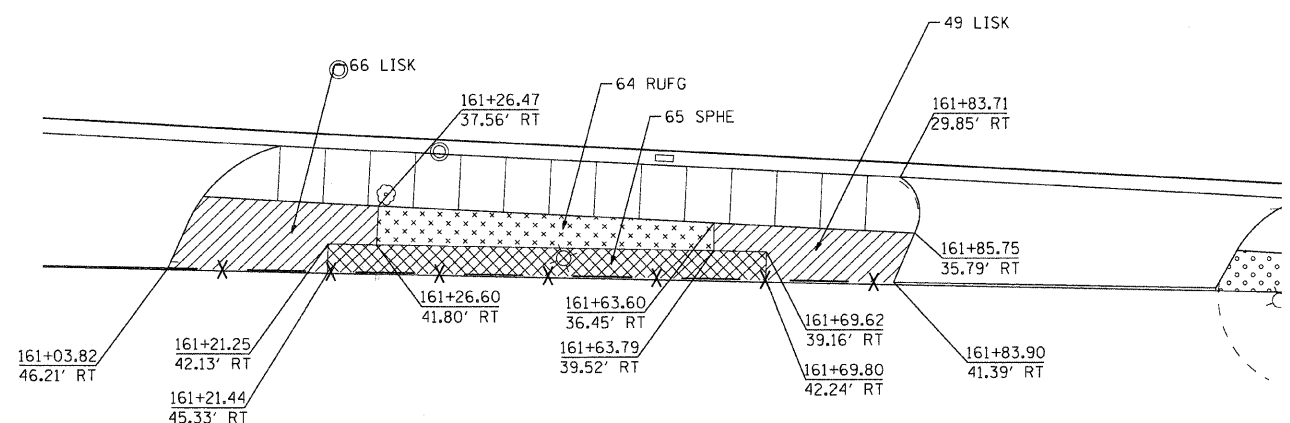
LANDSCAPE PLAN - DETAILS

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

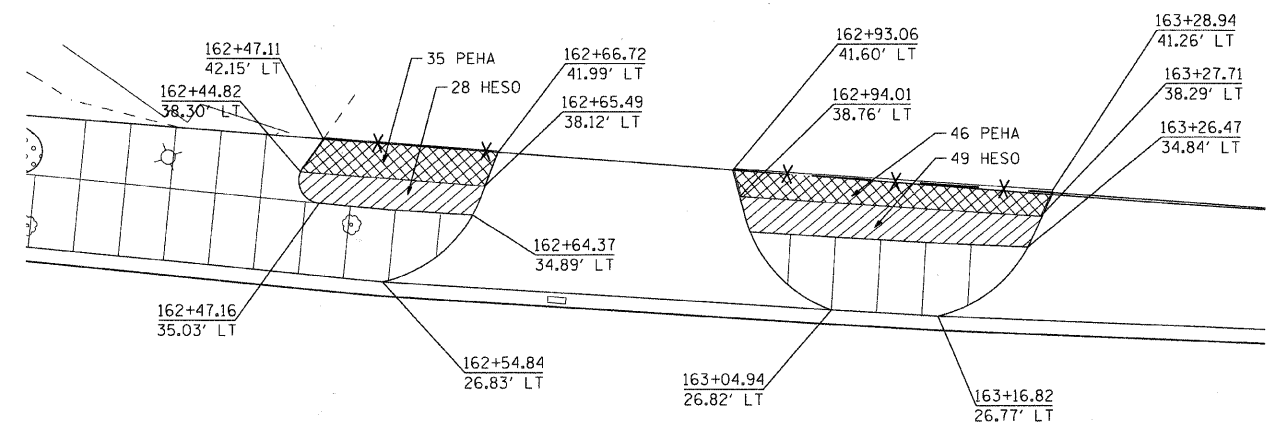
F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 55
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M-8003(723)	CONTRACT NO. 08-00107-00-PV	



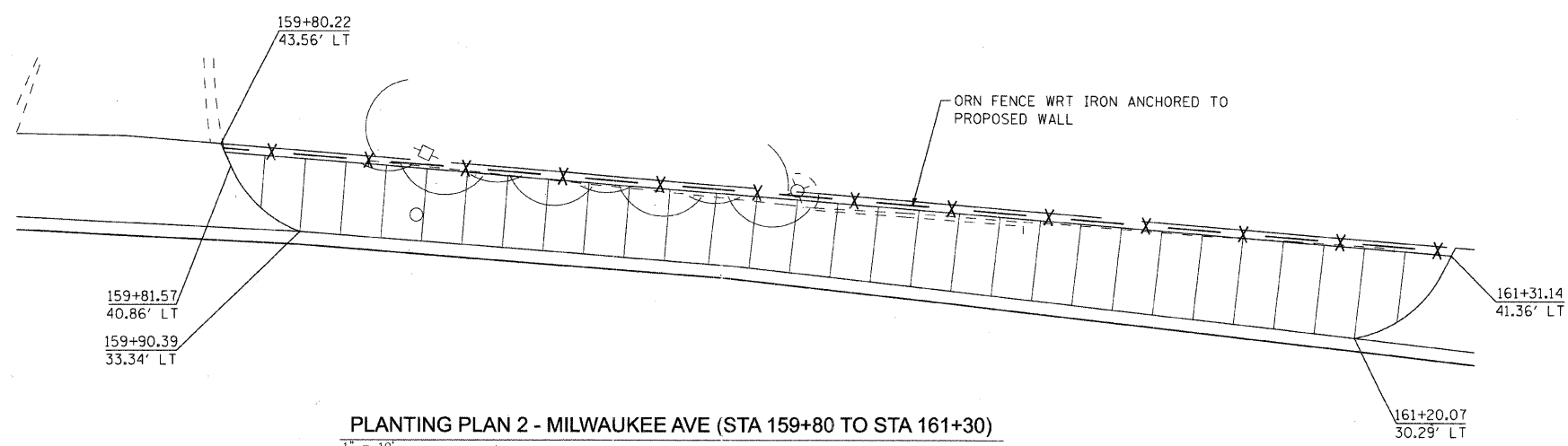
PLANTING PLAN 1 - MILWAUKEE AVE (STA 157+57 TO STA 158+58)
1" = 10'



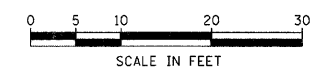
PLANTING PLAN 3 - MILWAUKEE AVE (STA 161+03 TO STA 161+86)
1" = 10'



PLANTING PLAN 4 - MILWAUKEE AVE (STA 162+44 TO STA 163+29)
1" = 10'



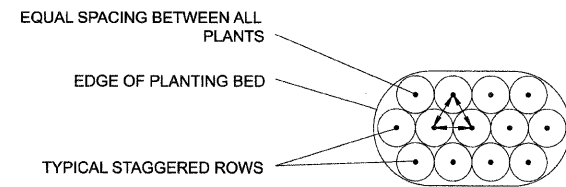
PLANTING PLAN 2 - MILWAUKEE AVE (STA 159+80 TO STA 161+30)
1" = 10'



<p>SEC Group, Inc. Engineering Planning Landscape Architecture Michigan • Northville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = char.tke	DESIGNED - MAC	REVISED -	VILLAGE OF NILES	LANDSCAPE PLAN - DETAILS			F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 56
	PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -					CONTRACT NO. 08-00107-00-PV				
	PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -					SCALE: 1" = 20'	SHEET NO. 5 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT M - 800347231
	DATE = 12/16/08	REVISED -	REVISED -									

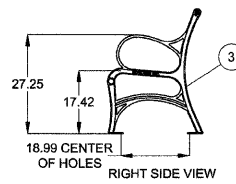
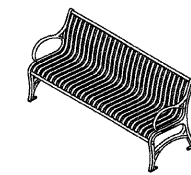
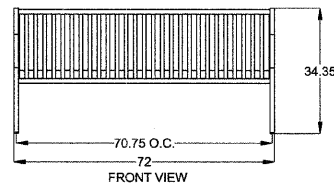
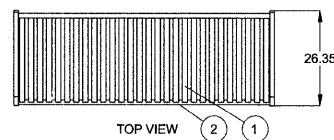
MILWAUKEE AVENUE IMPROVEMENTS
080231
080231_sped1-02.dgn

DETAILS



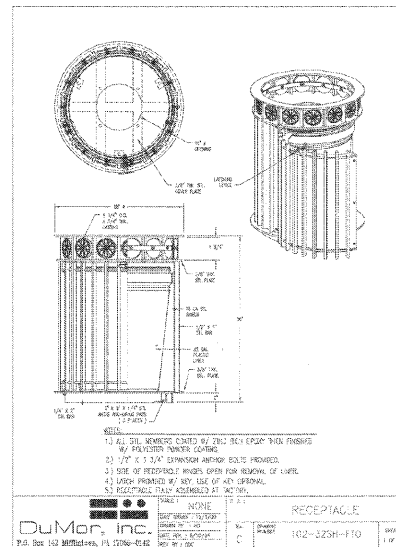
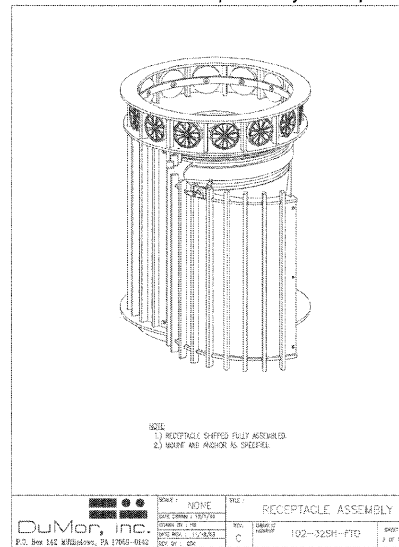
TYPICAL PLANTING BED PLAN

SCALE: N.T.S.



TYPICAL BENCH DETAIL

SCALE: N.T.S. *provided by SiteScapes Inc.



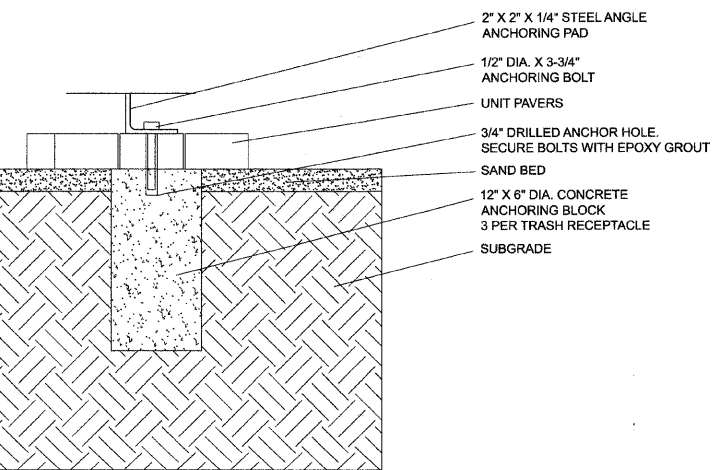
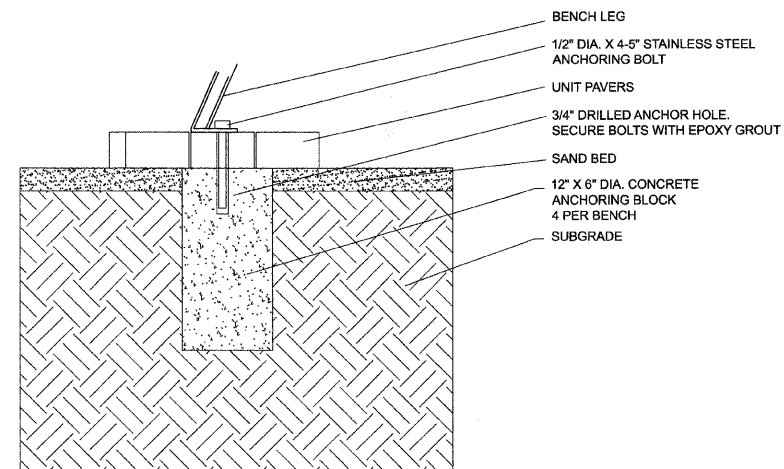
TYPICAL TRASH RECEPTACLE DETAIL

SCALE: N.T.S. *provided by DuMor, Inc.

PLANT LIST

MATERIALS LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
GROUNDCOVER, PERENNIALS AND VINES					
14	ECPM	Echinacea purpurea 'Magnus'	Magnus Coneflower	1 gal.	18" o.c.
106	HESO	Hemerocallis 'Stella de Oro'	Daylily	1 gal.	18" o.c.
115	LISK	Liatris spicata 'Kobold'	Kobold Gayfeather	1 gal.	18" o.c.
64	RUFG	Rudbeckia fulgida 'Goldsturm'	Black Eyed Susan	1 gal.	18" o.c.
ORNAMENTAL GRASSES					
23	PEAL	Pennisetum alopecuroides	Fountain Grass	1 gal.	18" o.c.
81	PEHA	Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	1 gal.	18" o.c.
65	SPHE	Sporobolus heterolepis	Prairie Dropseed	1 gal.	18" o.c.



BENCH ANCHOR DETAIL

SCALE: N.T.S. *provided by DuMor, Inc.

MANUFACTURER: **SiteScapes**

PRODUCT: Cityview Cast End Backed Bench CV1-1010DF

COLOR: Onyx

LENGTH: 6'-0"

FINISH: Duracoat

CONTACT: SiteScapes Inc.
P.O. Box 22326
4910 Countryhill Rd.
Lincoln, NE 68516
888.331.9464
www.sitescapesonline.com

- MATERIAL LIST:
1. Seat straps - 5/16" x 1 1/2" steel flat bar.
 2. Support pipes - Ø 1.315" x .133" steel pipe.
 3. End units - 1 1/4" cast iron with 9/16" mounting holes.
 4. Mounted with four Ø 1/2" x 4-5" stainless steel anchor bolts (customer supplied).

MANUFACTURER: DuMor, Inc.

PRODUCT: Receptacle 102-32SH-F10

COLOR: Black

SIZE: 32 Gallon

FINISH: Powder Coat

CONTACT: DuMor, Inc.
P.O. Box 142
Mifflintown, PA 17059
800.598.4018
http://dumor.com



USER NAME = char-tke	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -
	DATE - 12/16/08	REVISED -

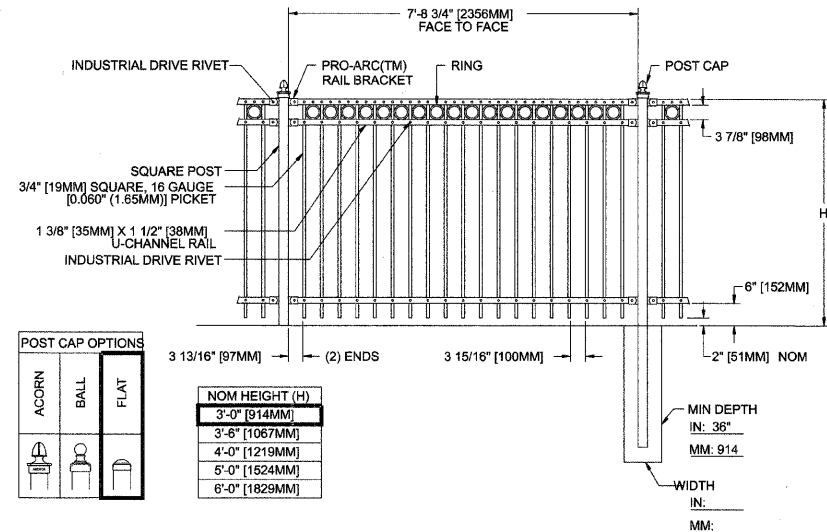
VILLAGE OF NILES

LANDSCAPE PLAN - DETAILS

SCALE: 1" = 20' SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	57
CONTRACT NO.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT M - 8003(723)	

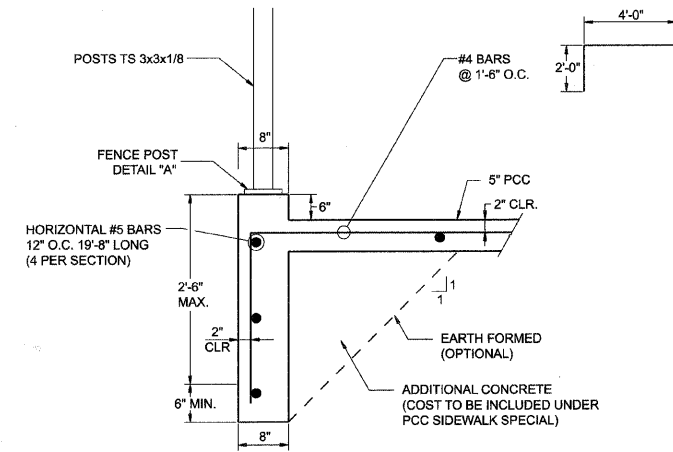
DETAILS



ORNAMENTAL FENCE, WRAUGHT IRON TYPICAL DETAIL

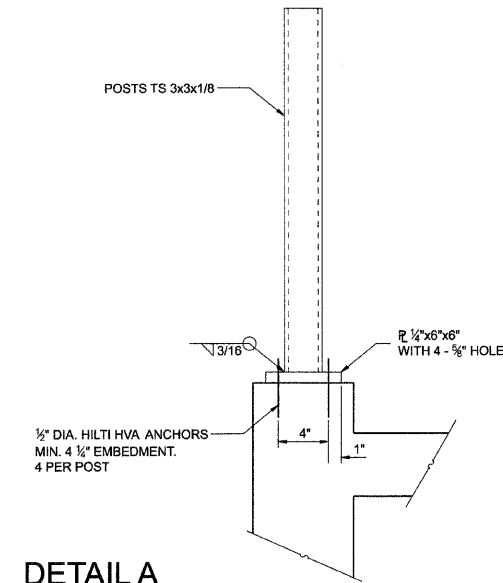
SCALE: N.T.S. *provided by Master Halco

MANUFACTURER: **MASTER HALCO**
 PRODUCT: Imperial Fence - Style D Modified
 Nom 8" Section Length - 3/4" Pickets or approved equal
 COLOR: Black
 HEIGHT: 3'-0"
 POST: Flat
 MATERIAL: Galvanized Steel
 FINISH: Powder Coat
 CONTACT: Monumental Iron Works by Master Halco
 Orange, CA
 800.229.5615
 www.FenceOnline.com
 NOTES: 1. Metric dimensions are nominal equivalents to U.S. dimensions.
 2. Specifications shown can be changed by Master Halco only.
 3. Footing width to be (4)x post width.
 4. See panel & post selection sheet for available post sizes.
 5. For installation on concrete see post detail.



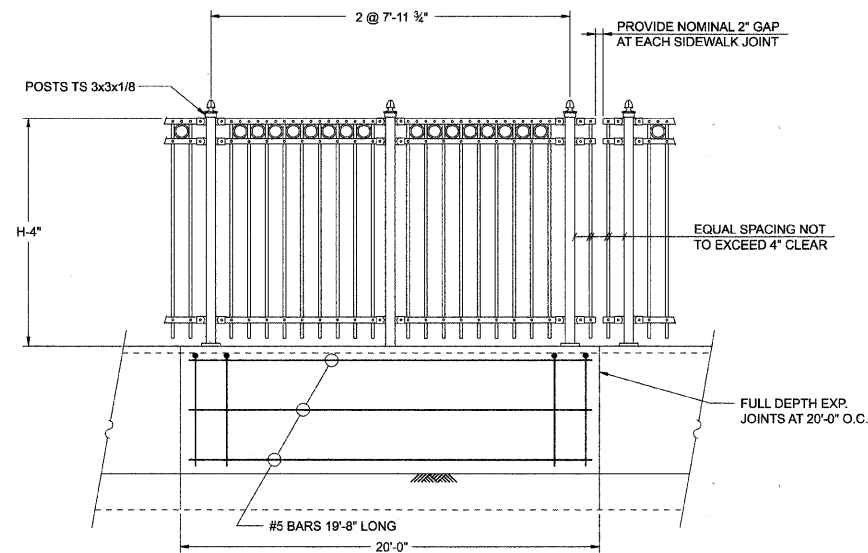
PC CONC SIDEWALK, SPECIAL CROSS SECTION

SCALE: N.T.S.



DETAIL A

SCALE: N.T.S.



ORNAMENTAL FENCE, WRAUGHT IRON, SPECIAL TYPICAL DETAIL (STA 159+80 LT TO STA 161+31 LT)

SCALE: N.T.S.



TYPICAL PLANTER DETAIL

SCALE: N.T.S.

MANUFACTURER: Custom Design Precast
 PRODUCT: CDP3046
 COLOR: Autumn Brown
 SIZE: 36" Dia. x 24" H
 FINISH: NaturaStone
 CONTACT: Custom Design Precast, Inc.
 4607-B Camp Phillips Road
 Weston, WI 54476
 888.355.1387
 www.cdprecast.com



USER NAME = char bke	DESIGNED - MAC	REVISED -
PLOT SCALE = 1" = 20'	DRAWN - CMH	REVISED -
PLOT DATE = 1/6/2009	CHECKED - CMH	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

LANDSCAPE PLAN - DETAILS

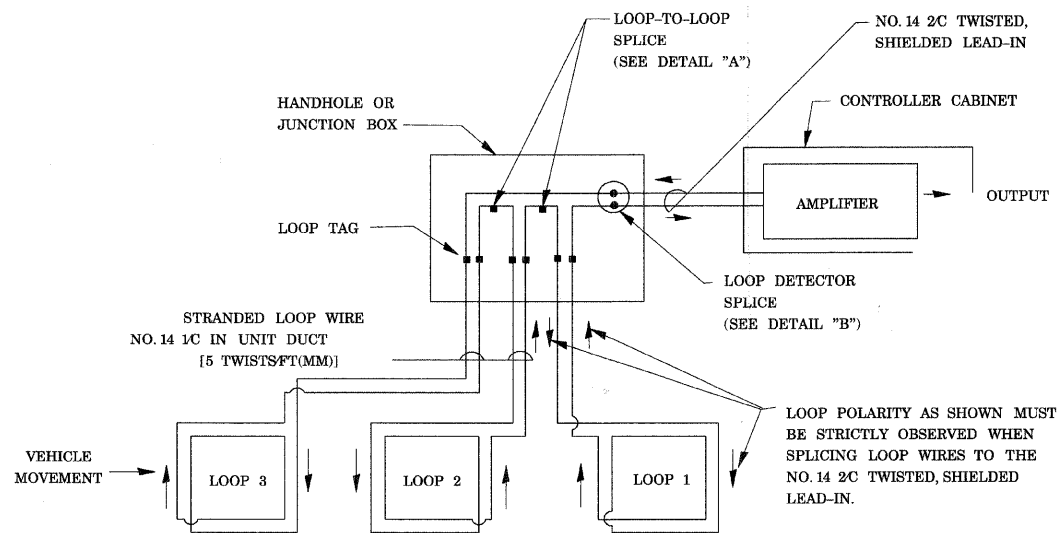
SCALE: 1" = 20' SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 58
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT M -8003(723)	CONTRACT NO. 08-00107-00-PV	

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
M - 8003(723)				

LOOP DETECTOR NOTES

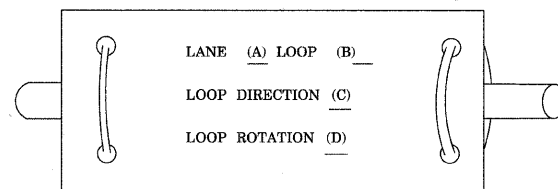
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



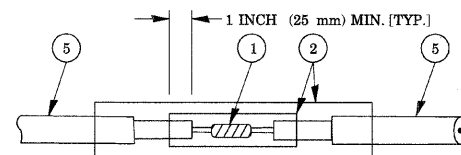
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

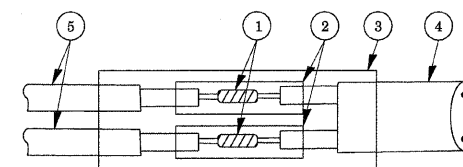
LOOP LEAD-IN CABLE TAG



- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**

SCALE: VERT.
HORIZ. NTS
DATE 12/16/08

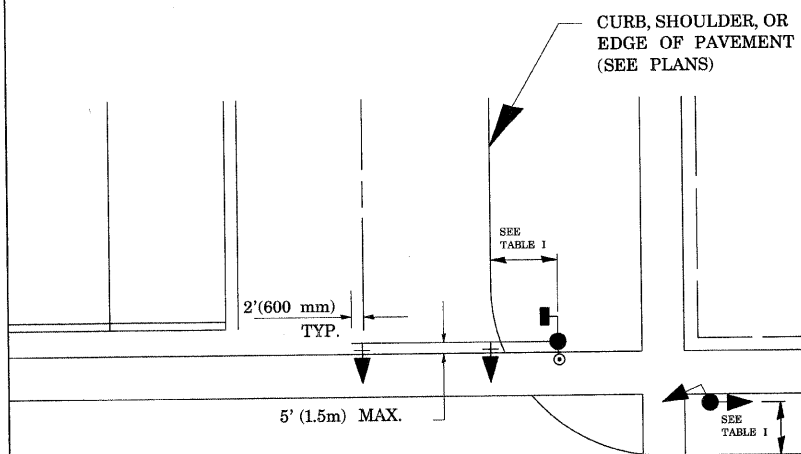
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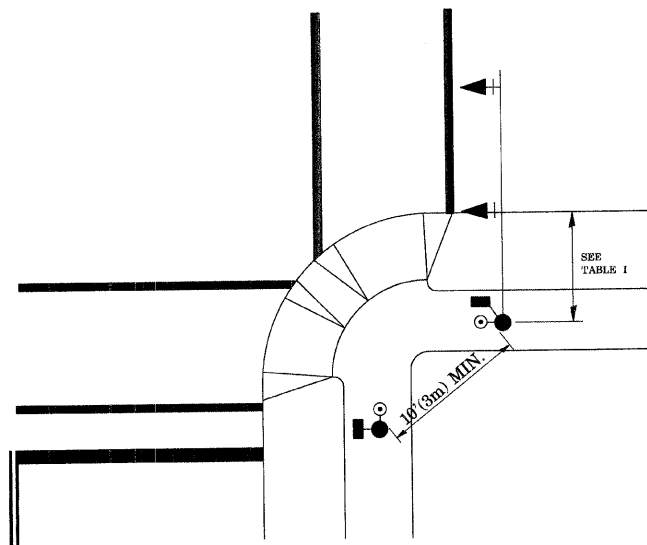
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-04-PV	COOK	169	60
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	M-8003(723)		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

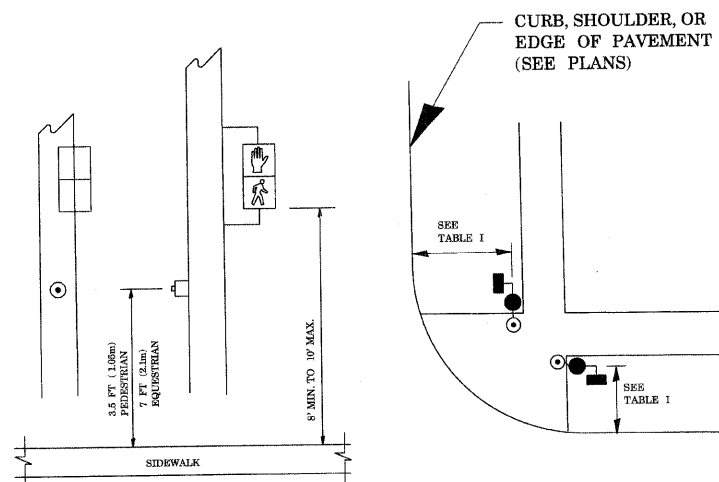


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: VERT. _____
 HORIZ. NTS _____
DATE 12/16/08
DRAWN BY: JJS
CHECKED BY: APS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
3513 08-00107-06-PM		COOK	169 61
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	M - 8003(1723)

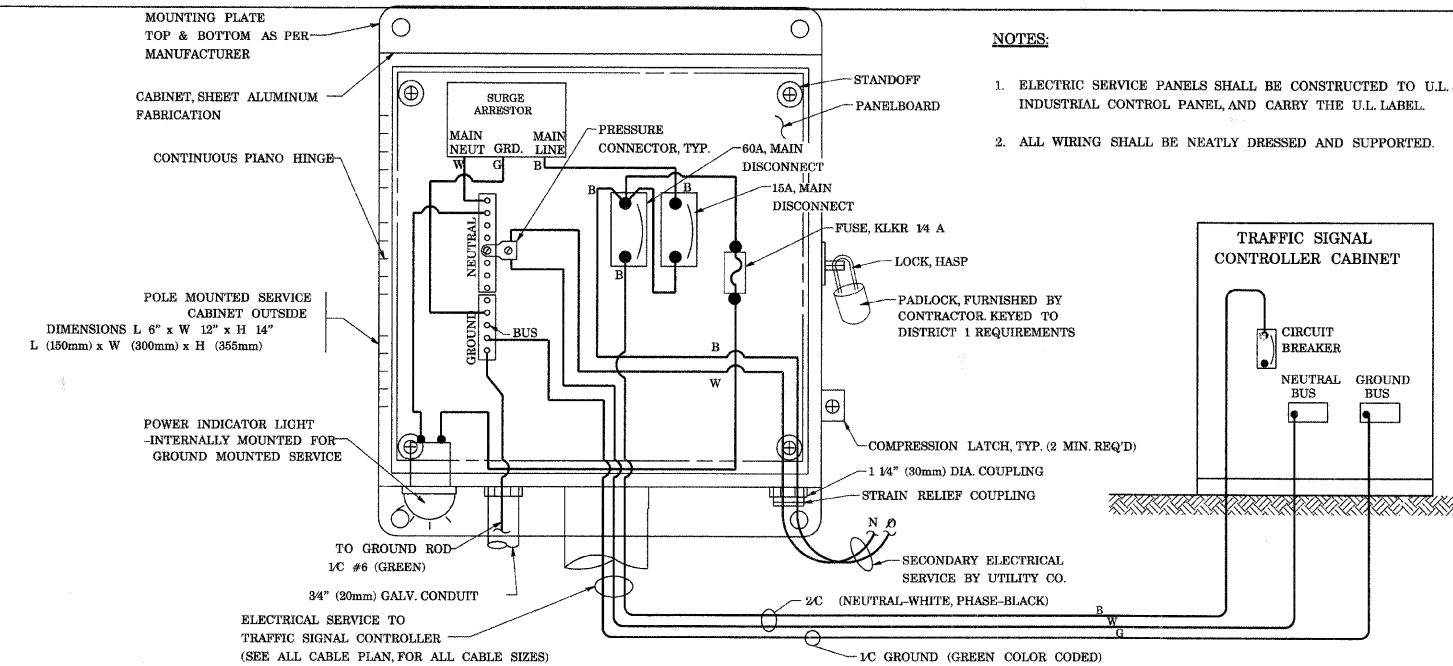
NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G. STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

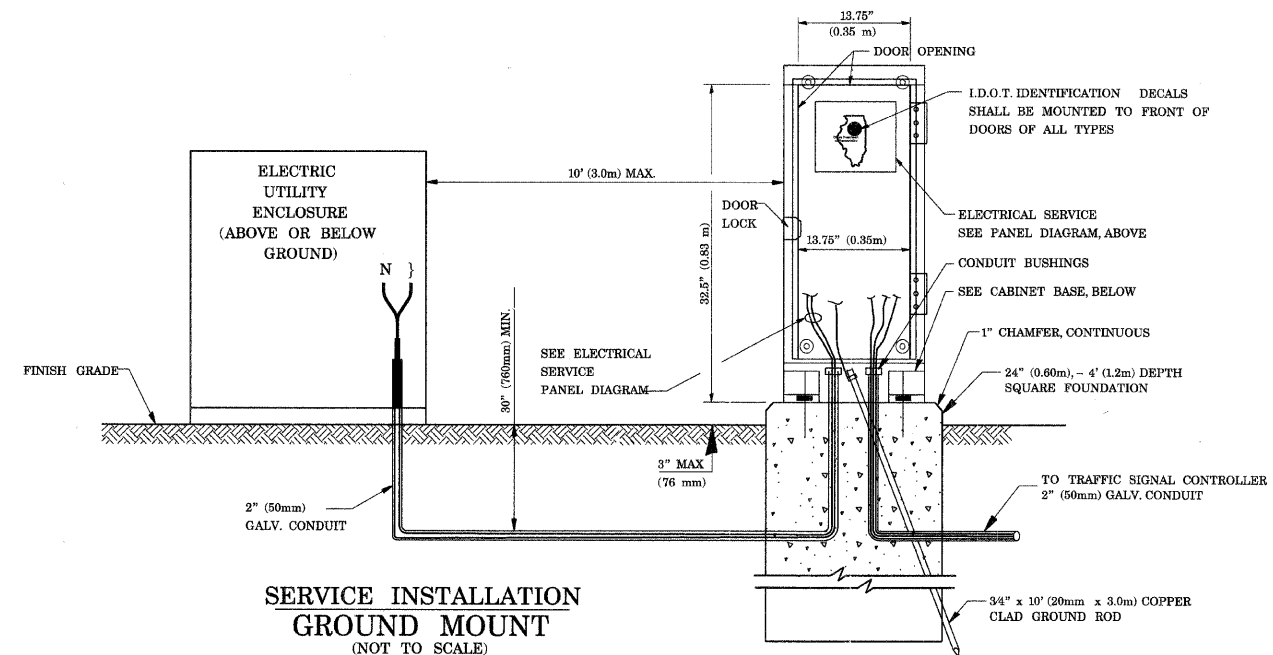
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

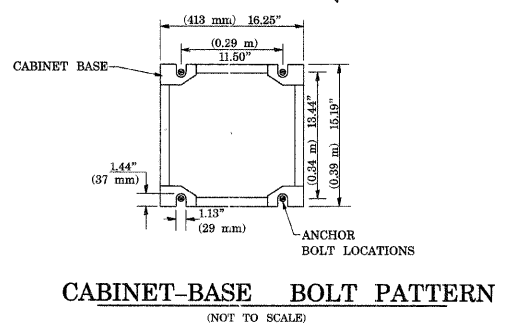


ELECTRICAL SERVICE - PANEL DIAGRAM
(TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

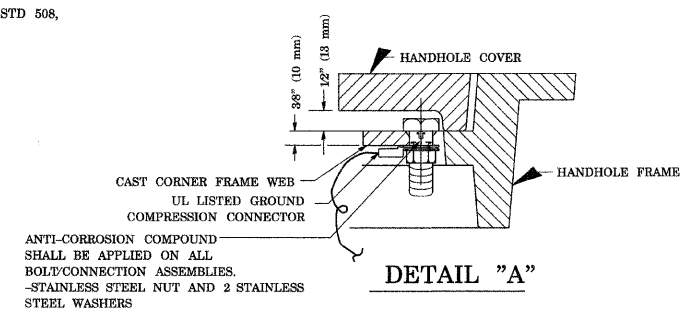
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



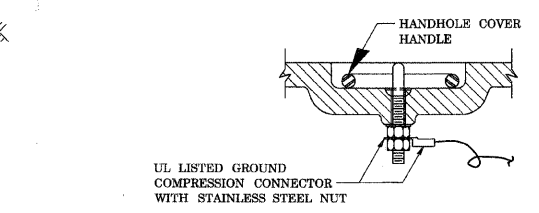
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



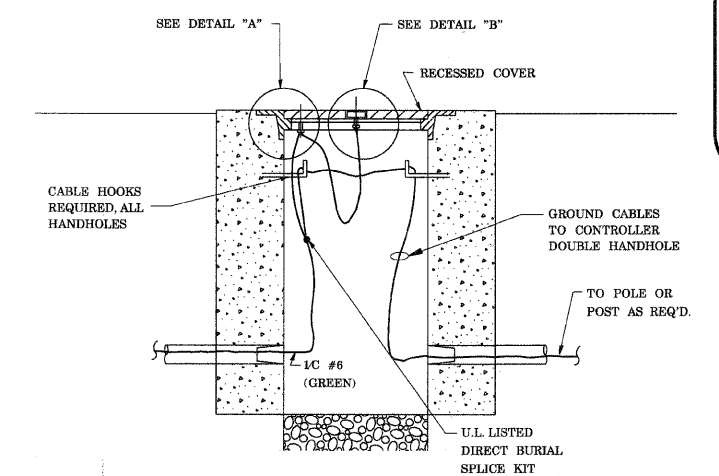
CABINET-BASE BOLT PATTERN
(NOT TO SCALE)



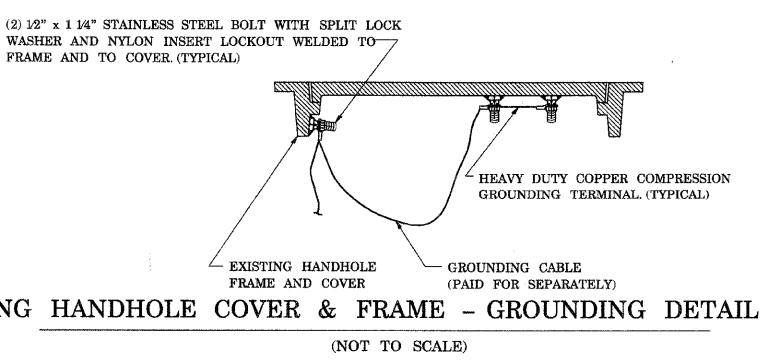
DETAIL "A"



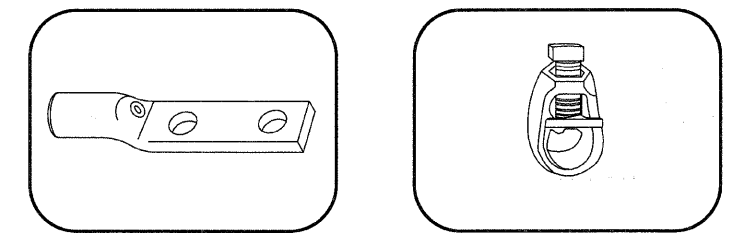
DETAIL "B"



HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



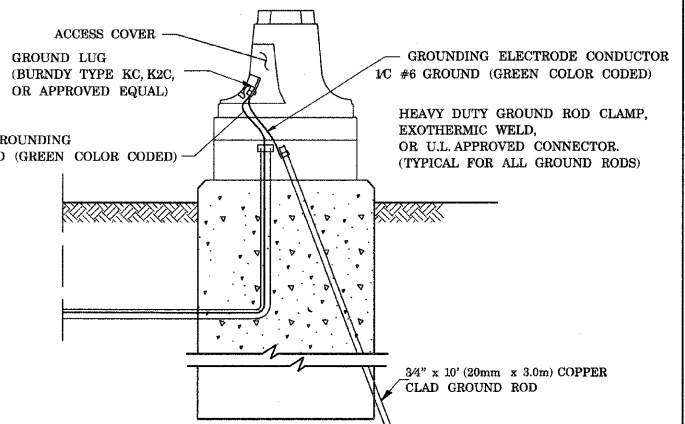
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)
3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

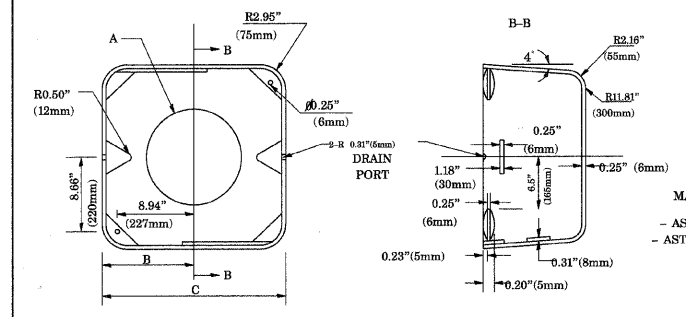
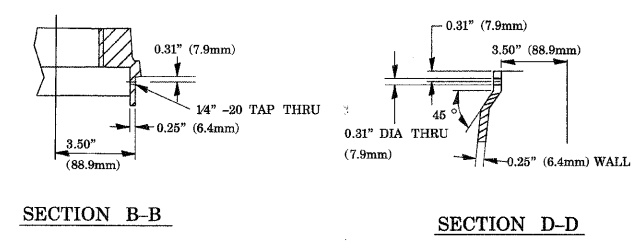
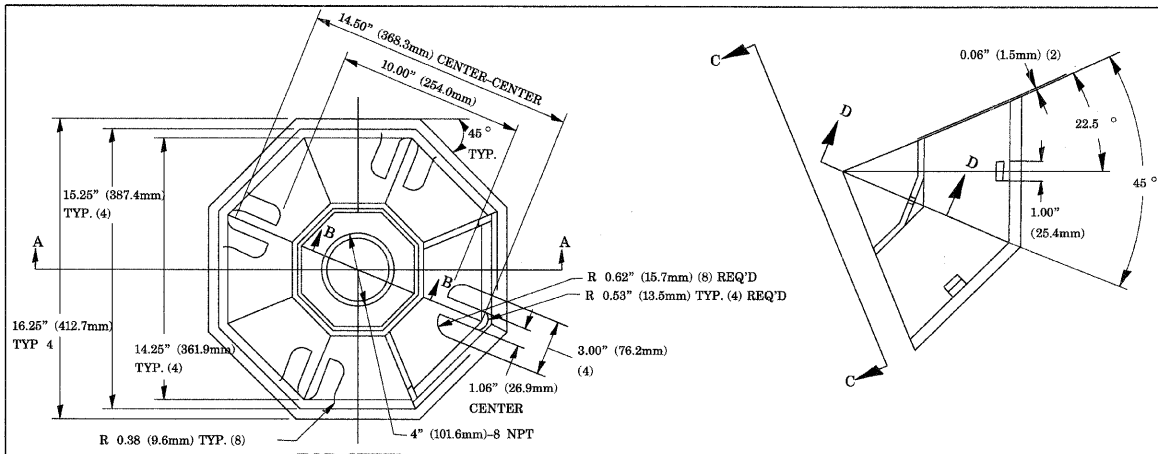


REVISIONS	
NAME	DATE

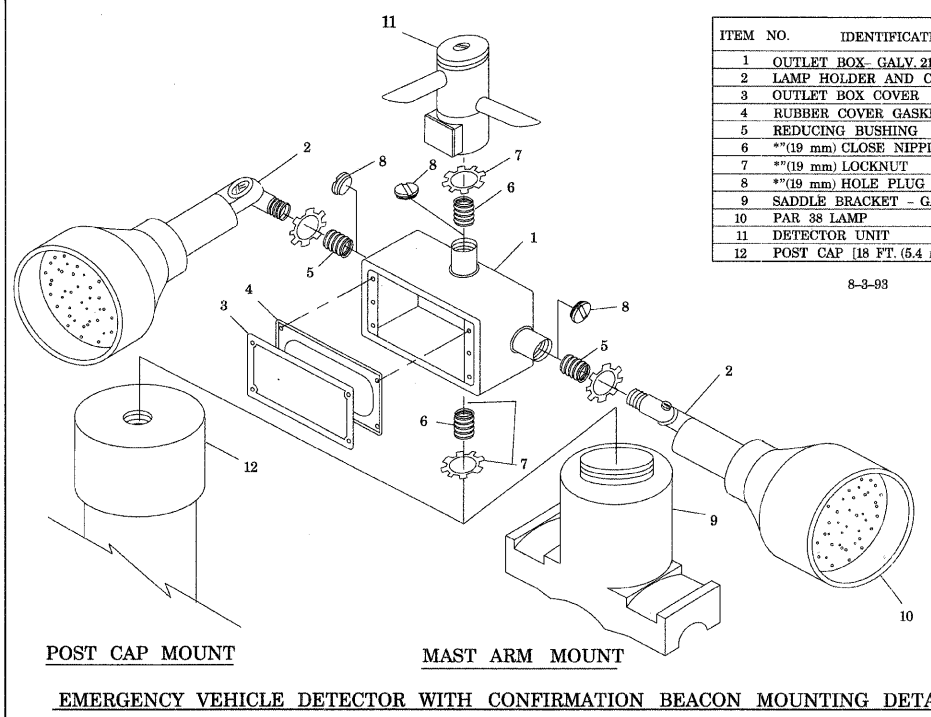
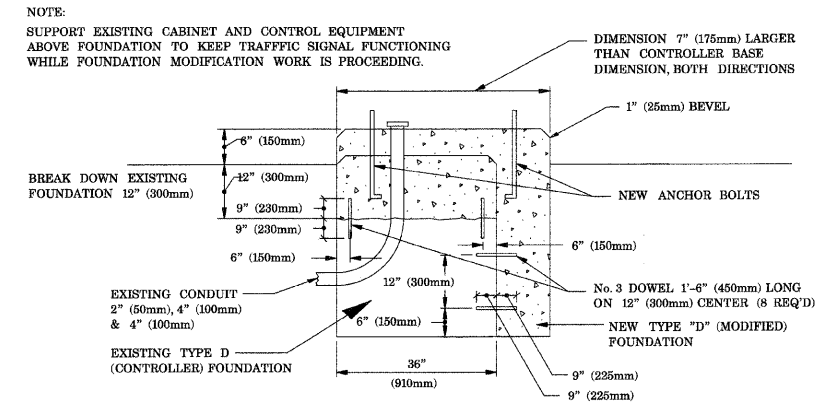
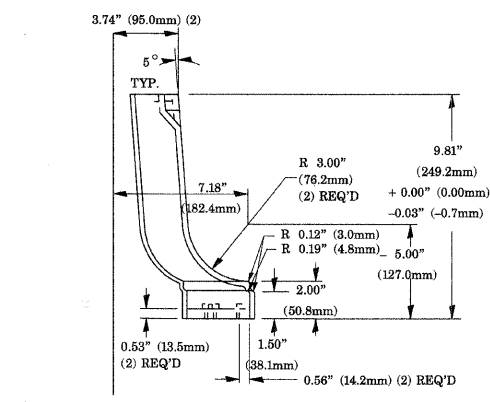
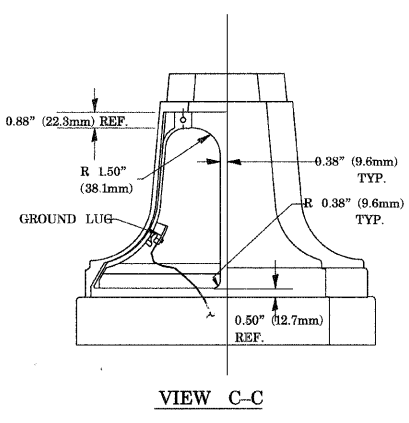
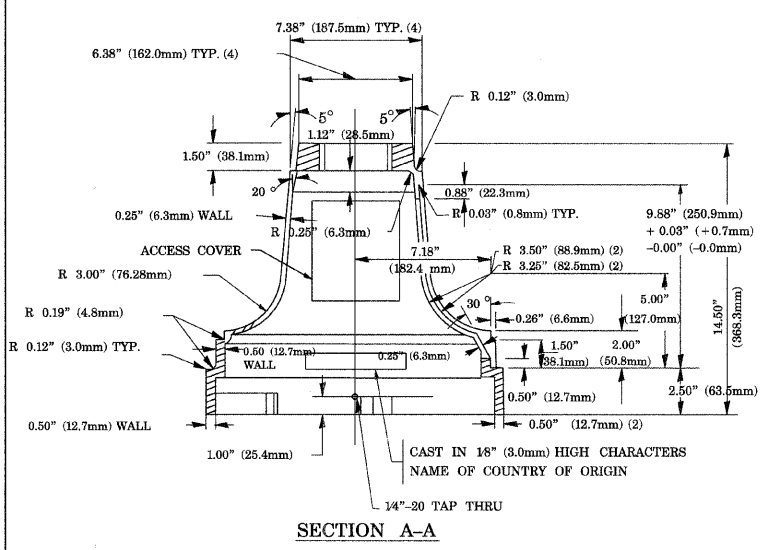
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: VERT. HORIZ. NTS
DATE 12/16/08
DRAWN BY JJS
CHECKED BY APS

PLOT DATE = 12/22/2008
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CONTRACT NO. 08-00107-04-PV			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
3513	08-00107-04-PV	COOK	169
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
M - 8003(723)			

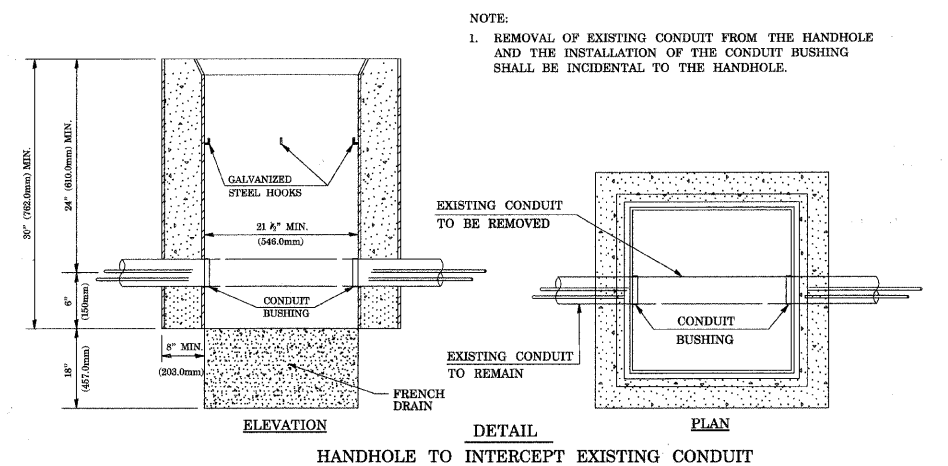
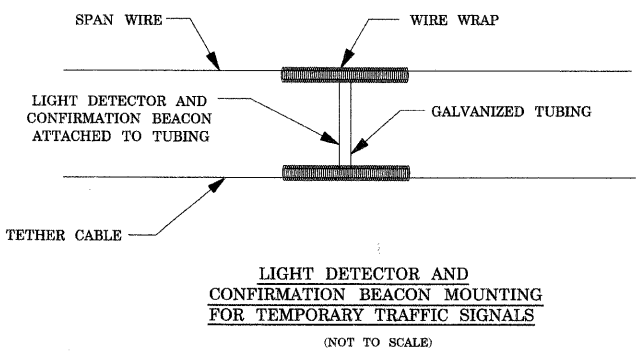


TYPE	A	B	C	HEIGHT	WEIGHT
I	10.125\" (257mm)	9.5\" (241mm)	19\" (483mm)	12\" (300mm)	24kg
II	11.125\" (283mm)	10.75\" (273mm)	21.5\" (546mm)	12\" (300mm)	26kg



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU. M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	** (19 mm) CLOSE NIPPLE
7	** (19 mm) LOCKNUT
8	** (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZGEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 1/2\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS
 SCALE: VERT. DRAWN BY JJS
 HORIZ. NTS CHECKED BY APS
 DATE 12/16/08

PLOT DATE = 12/22/2008
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 USER NAME = charlie

NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- ALL LABOR AND MATERIALS NECESSARY TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- FINAL CAMERA POSITION TO BE DETERMINED BY THE CONTRACTOR'S CAMERA REPRESENTATIVE TO ENSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION.
- EXISTING TRAFFIC SIGNAL CONTROLLER AND FOUNDATION TO BE REMOVED. EXISTING LIGHT DETECTOR AMPLIFIER, INDUCTIVE LOOP DETECTORS AND ALL OTHER CONTROLEQUIPMENT TO BE RE-USED FOR PERMANENT INSTALLATION.

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- ◀ EXISTING SIGNAL HEAD TO BE REMOVED
- "E" ■ EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E" ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" □ EXISTING HANDHOLE TO BE REMOVED
- "E" ⊞ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH BUTTON TO BE REMOVED
- ▷ EXISTING EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- EXISTING CONFIRMATION BEACON TO BE REMOVED

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR OWN EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

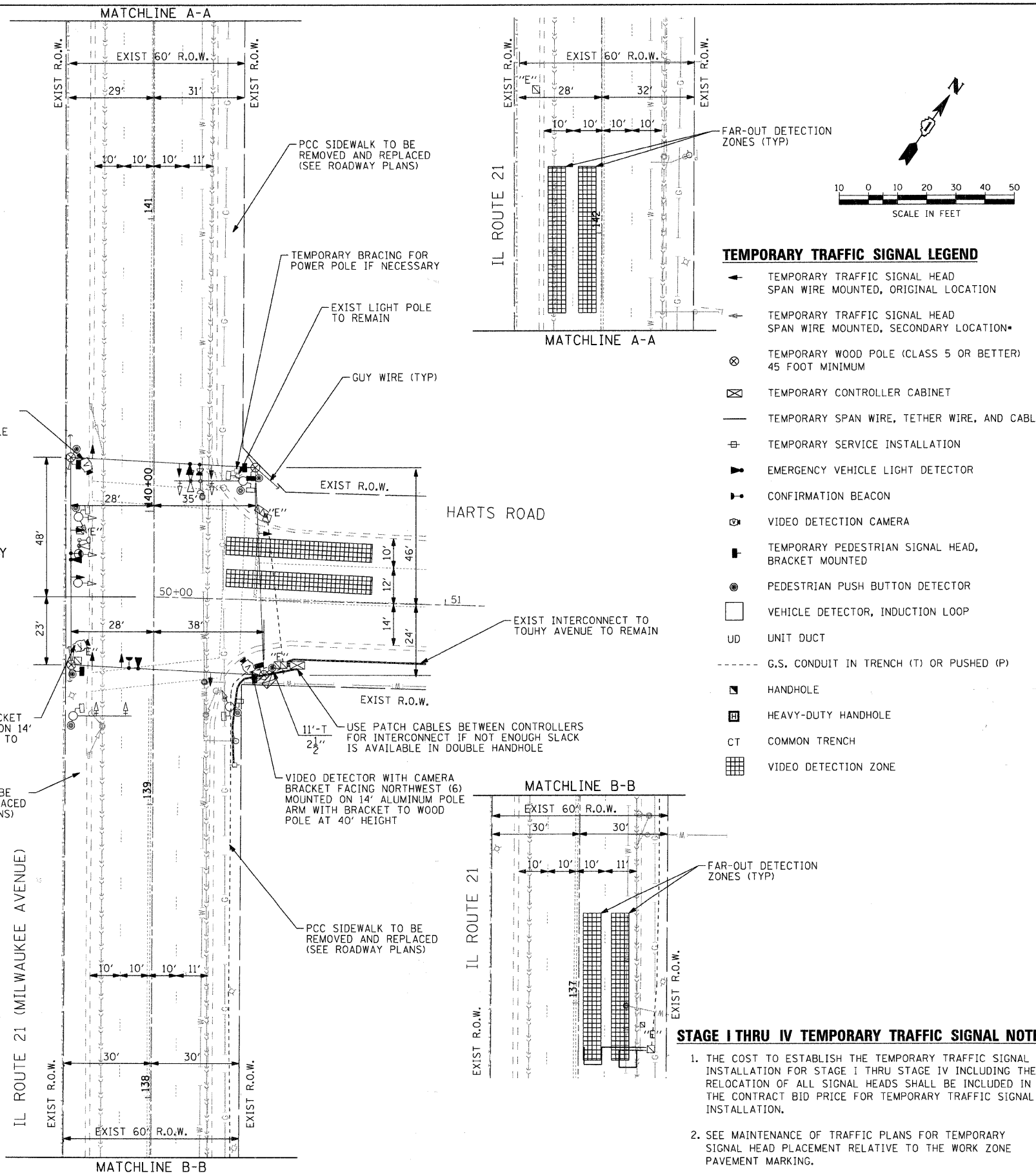
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 7 EACH SIGNAL HEAD, 1-FACE, 3 SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 2-3 SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATES
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSHBUTTON
- 4 EACH SIGNAL POST
- 3 EACH CONFIRMATION BEACON
- 3 EACH EMERGENCY VEHICLE LIGHT DETECTOR
- 1 EACH CONTROLLER AND CABINET

NOTE:

FINAL CAMERA POSITION TO BE DETERMINED BY THE CONTRACTOR'S CAMERA REPRESENTATIVE TO INSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION.

NOTE:

EXISTING TRAFFIC SIGNAL CONTROLLER AND FOUNDATION TO REMAIN. EXISTING LIGHT DETECTOR AMPLIFIER, INDUCTIVE LOOP DETECTORS AND ALL OTHER CONTROL EQUIPMENT TO BE RE-USED FOR PERMANENT INSTALLATION.



TEMPORARY TRAFFIC SIGNAL LEGEND

- ◀ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED, ORIGINAL LOCATION
- ◀ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED, SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊞ TEMPORARY SERVICE INSTALLATION
- ▷ EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VIDEO DETECTION CAMERA
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- PEDESTRIAN PUSH BUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTIVE LOOP
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- ⊞ HEAVY-DUTY HANDHOLE
- CT COMMON TRENCH
- ⊞ VIDEO DETECTION ZONE

STAGE I THRU IV TEMPORARY TRAFFIC SIGNAL NOTES

- THE COST TO ESTABLISH THE TEMPORARY TRAFFIC SIGNAL INSTALLATION FOR STAGE I THRU STAGE IV INCLUDING THE RELOCATION OF ALL SIGNAL HEADS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- SEE MAINTENANCE OF TRAFFIC PLANS FOR TEMPORARY SIGNAL HEAD PLACEMENT RELATIVE TO THE WORK ZONE PAVEMENT MARKING.



USER NAME = csh-rlk	DESIGNED - JJS	REVISED -
PLOT SCALE = 20	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

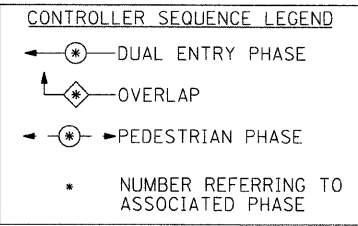
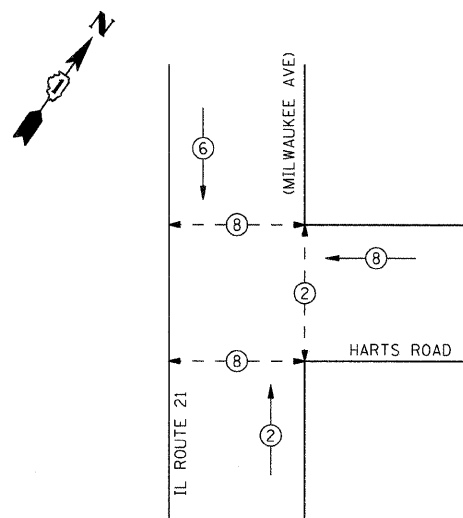
VILLAGE OF NILES

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT STAGES I THRU IV MILWAUKEE AVE AT HARTS RD

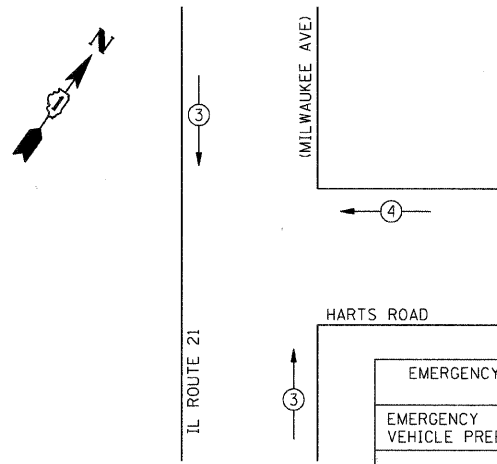
SCALE: 20 SHEET NO. 6 OF 16 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 63
CONTRACT NO. 08-00107-00-PV		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)		

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	←

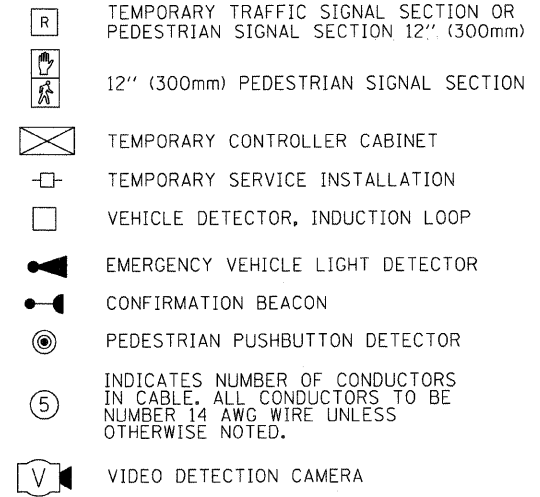
I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW (YELLOW)	0		12	0.10	0
ARROW (GREEN)	0		12	0.10	0
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		15	1.00	15
TOTAL =					431.5

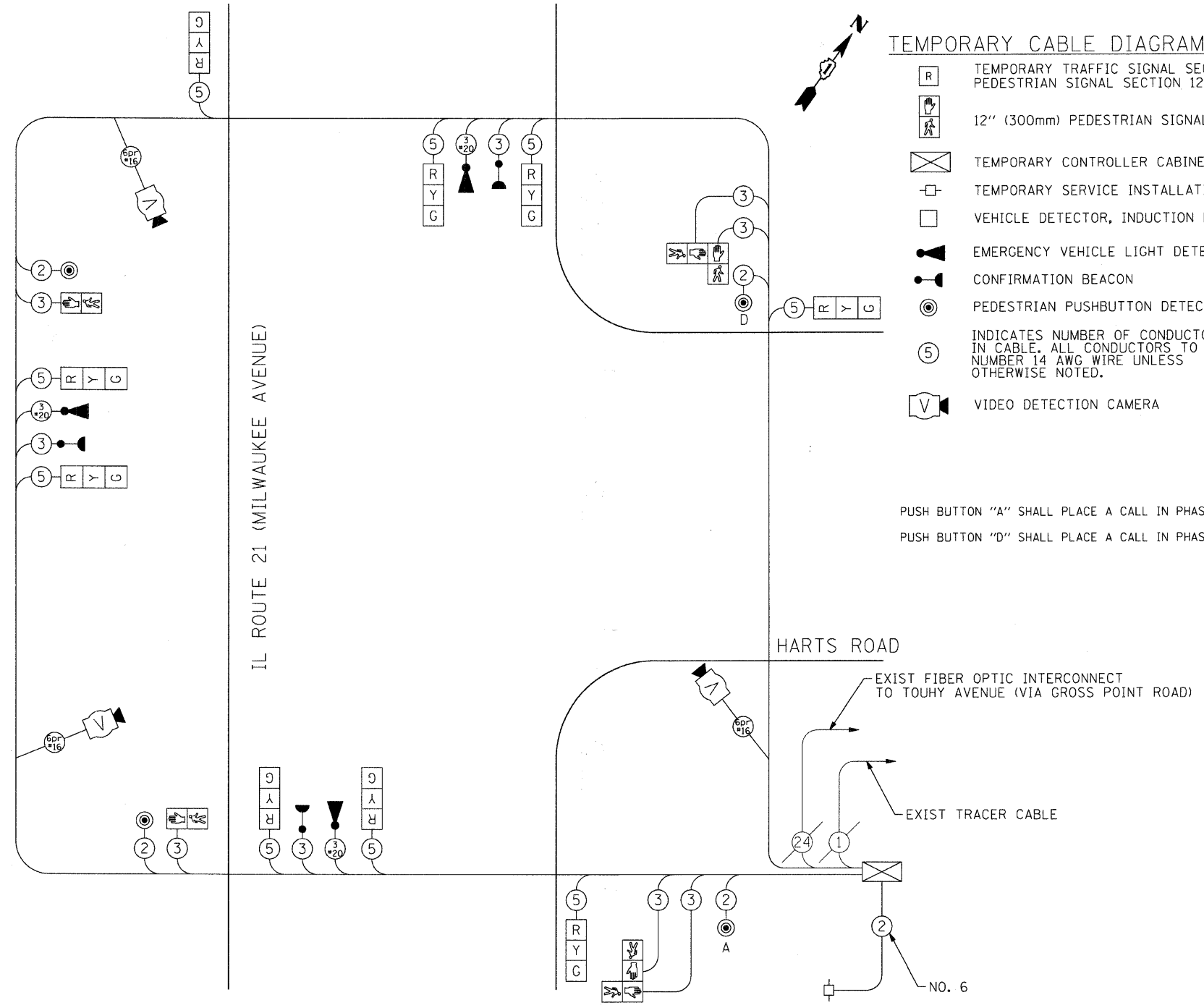
ENERGY COSTS TO: VILLAGE OF NILES
1000 CIVIC CENTER DRIVE
NILES IL 60714-3229

ENERGY SUPPLY CONTACT: MAUREEN RAYE
PHONE: (847) 816-5492
COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE DIAGRAM LEGEND



PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8



TEMPORARY CABLE PLAN
MAINTENANCE OF TRAFFIC STAGE I, II, III AND IV

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

MILWAUKEE AVENUE IMPROVEMENTS
08023
08023-6011mpcab01.dgn

TRAFFIC SIGNALS LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
COMMON TRENCH		
UNIT DUCT		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
VIDEO DETECTION CAMERA		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
UNINTERRUPTABLE POWER SUPPLY		

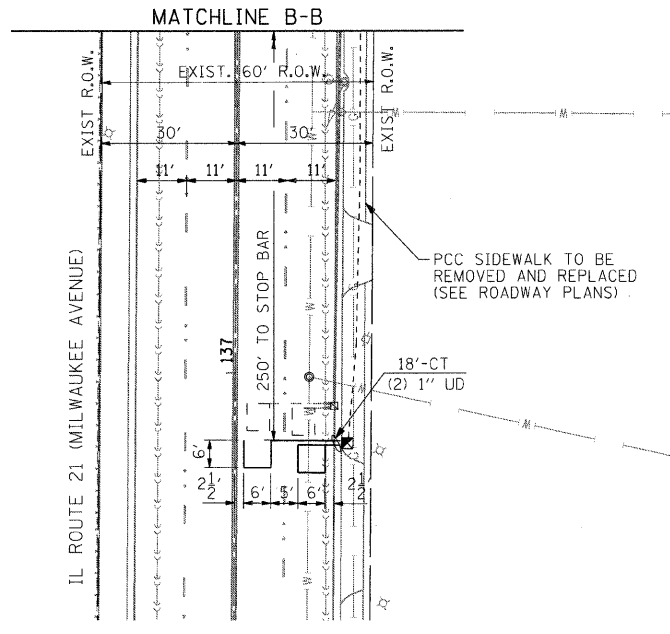
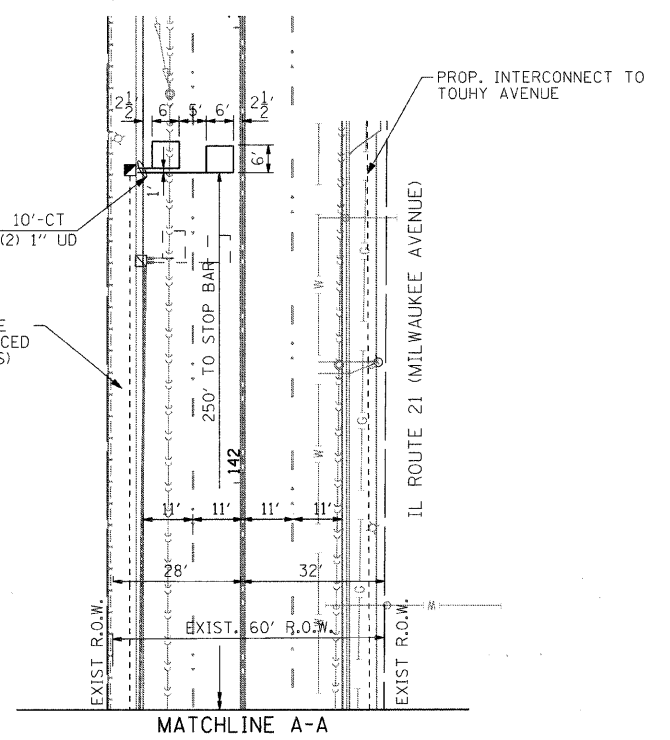
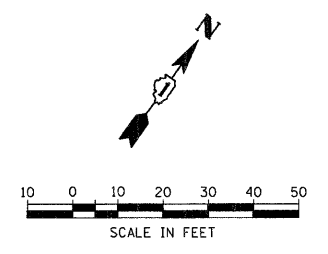
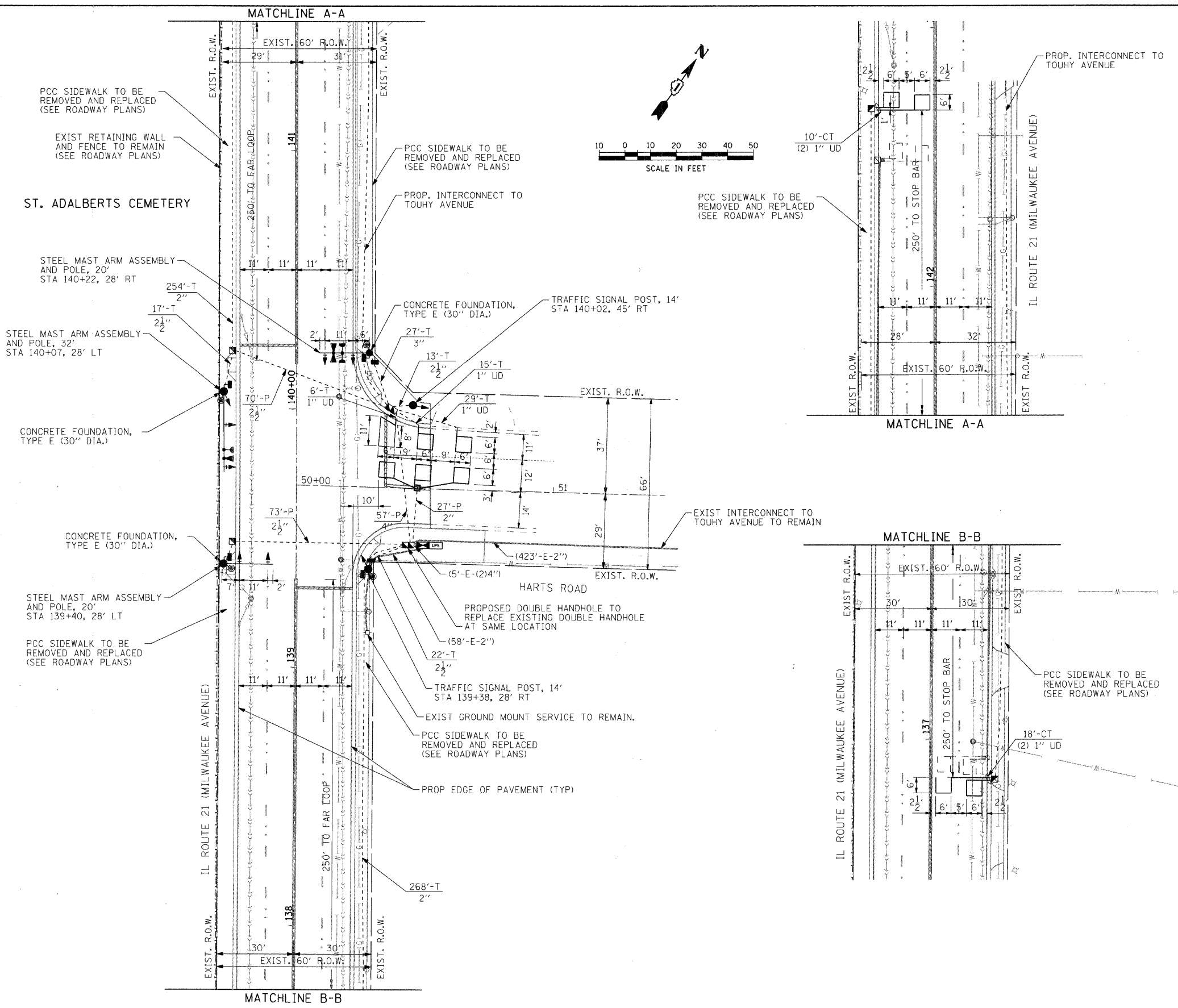
NOTE:
ALL NEW TRAFFIC SIGNAL EQUIPMENT INCLUDING POSTS AND MAST ARMS SHALL ARRIVE AT THE PROJECT SITE WITH ABLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIFICATIONS.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
STOP BARS ARE NOT TO BE PLACED PRIOR TO THE PROPOSED TRAFFIC SIGNALS BEING OPERATIONAL. THEY MUST BE IN PLACE, HOWEVER, AT THE TIME OF TURN-ON.

NOTE:
ALL EXISTING STREET NAME SIGNS ARE TO BE REUSED, IF NECESSARY, THE SIGN WILL BE REPLACED BY THE VILLAGE OF NILES AT A LATER DATE.



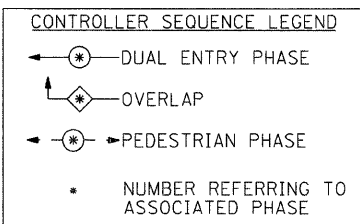
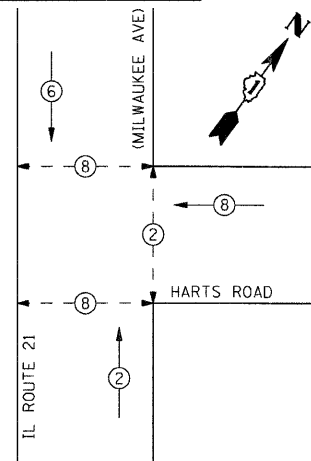
<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = char-uke PLOT SCALE = 20 PLOT DATE = 12/22/2008	DESIGNED - JJS DRAWN - JJS CHECKED - APS DATE - 12/16/08	REVISED - REVISED - REVISED - REVISED -	VILLAGE OF NILES		TRAFFIC SIGNAL INSTALLATION PLAN MILWAUKEE AVENUE AT HARTS ROAD		F.A.U. RTE. 3513 SECTION 08-00107-00-PV COUNTY COOK TOTAL SHEETS 169 SHEET NO. 65 CONTRACT NO. M-8003(723)
	SCALE: 20 SHEET NO. 8 OF 16 SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)			

MILWAUKEE AVENUE IMPROVEMENTS
080233
080233-601perm1q01.dgn

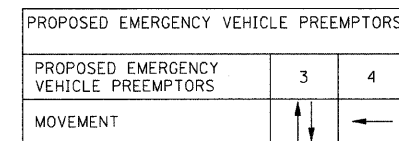
SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	522
CONDUIT IN TRENCH, 2 1/2" DIA, GALVANIZED STEEL	FOOT	66
CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	FOOT	27
CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	FOOT	27
CONDUIT PUSHED, 2 1/2" DIA, GALVANIZED STEEL	FOOT	143
CONDUIT PUSHED, 4" DIA, GALVANIZED STEEL	FOOT	57
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	631
UNINTERRUPTABLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2/C	FOOT	533
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3/C	FOOT	1,280
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5/C	FOOT	1,655
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,247
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	34
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/ COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED W/ COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	327
LIGHT DETECTOR	EACH	3
PEDESTRIAN PUSH BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
REMOVE EXISTING HANDHOLE	EACH	6
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C	FOOT	956
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED SHIELDED	FOOT	492
PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	3
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,675
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1

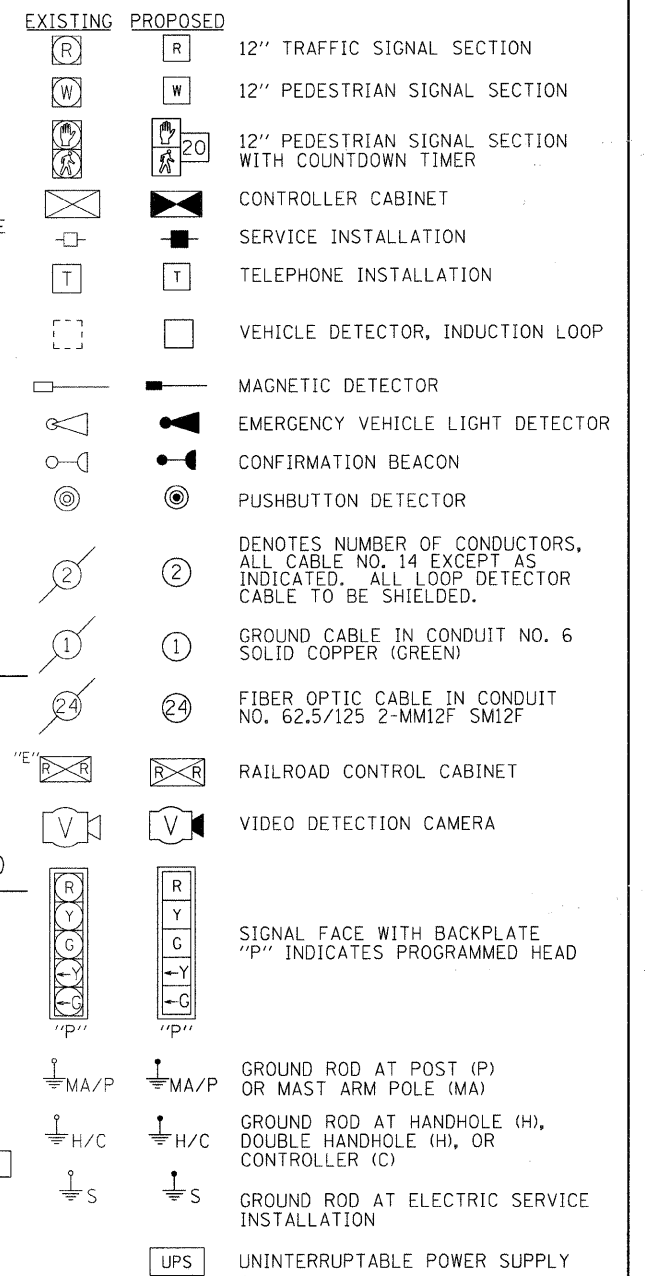
EXISTING AND PROPOSED CONTROLLER SEQUENCE



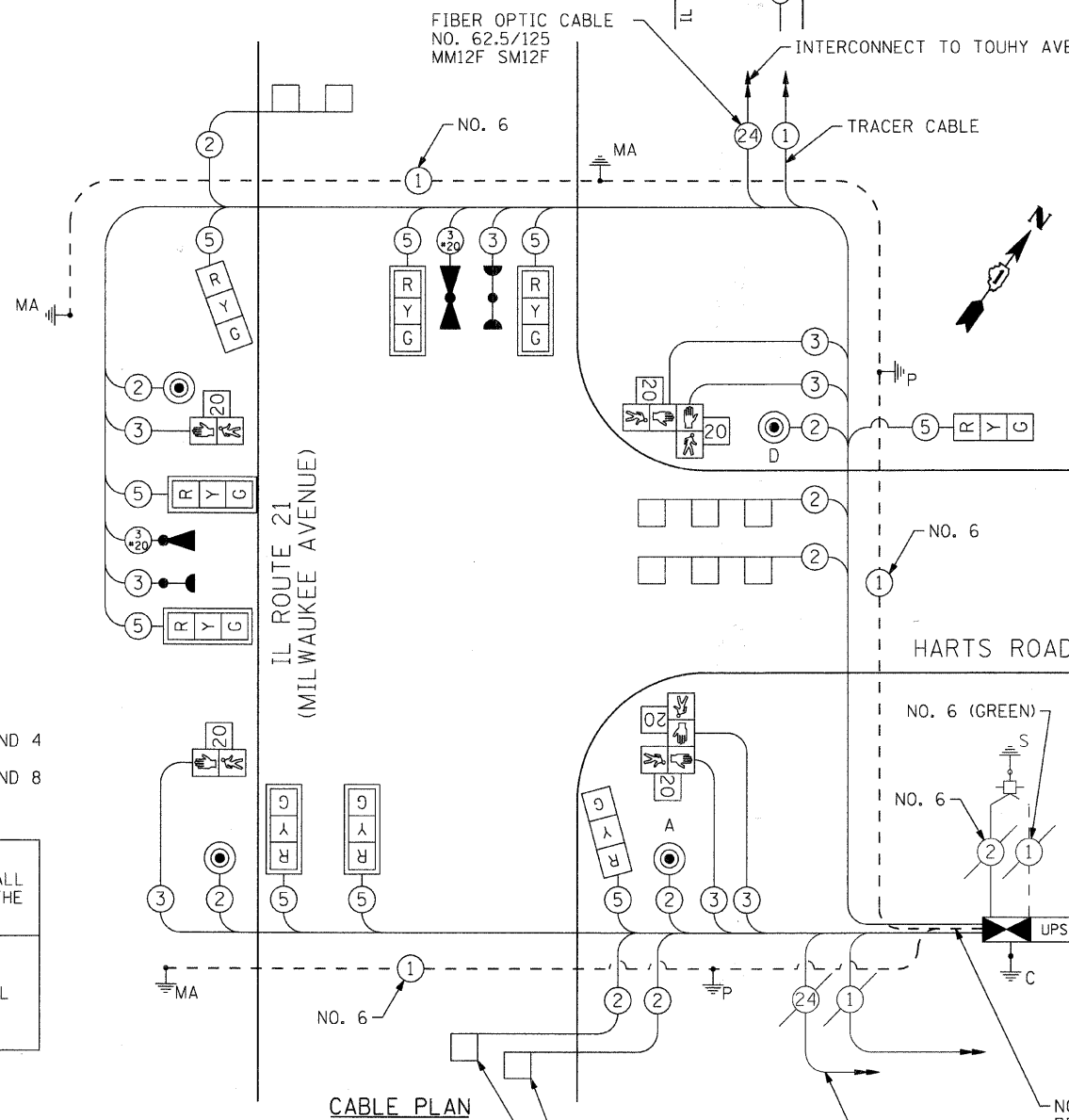
EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN LEGEND



PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8



TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW (YELLOW)	0		12	0.10	0
ARROW (GREEN)	0		12	0.10	0
PEDESTRIAN SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
TOTAL =					441.5

NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
 NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ENERGY COSTS TO: VILLAGE OF NILES
 1000 CIVIC CENTER DRIVE
 NILES IL 60714-3229
 ENERGY SUPPLY CONTACT: MAUREEN RAYE
 PHONE: (847) 816-5492
 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2=
E - M.A. LENGTH		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
<30'	30" (750mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED
<40'	30" (750mm)	13.5 (4.1)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON
<40'	36" (900mm)	11 (3.4)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE
<50'	36" (900mm)	13 (4.0)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND
>50'	36" (900mm)	15 (4.6)			POST MOUNTED

MILWAUKEE AVENUE IMPROVEMENTS
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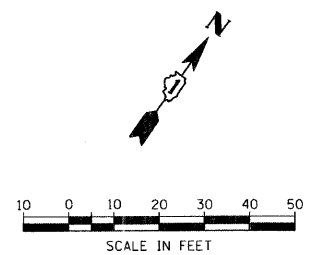
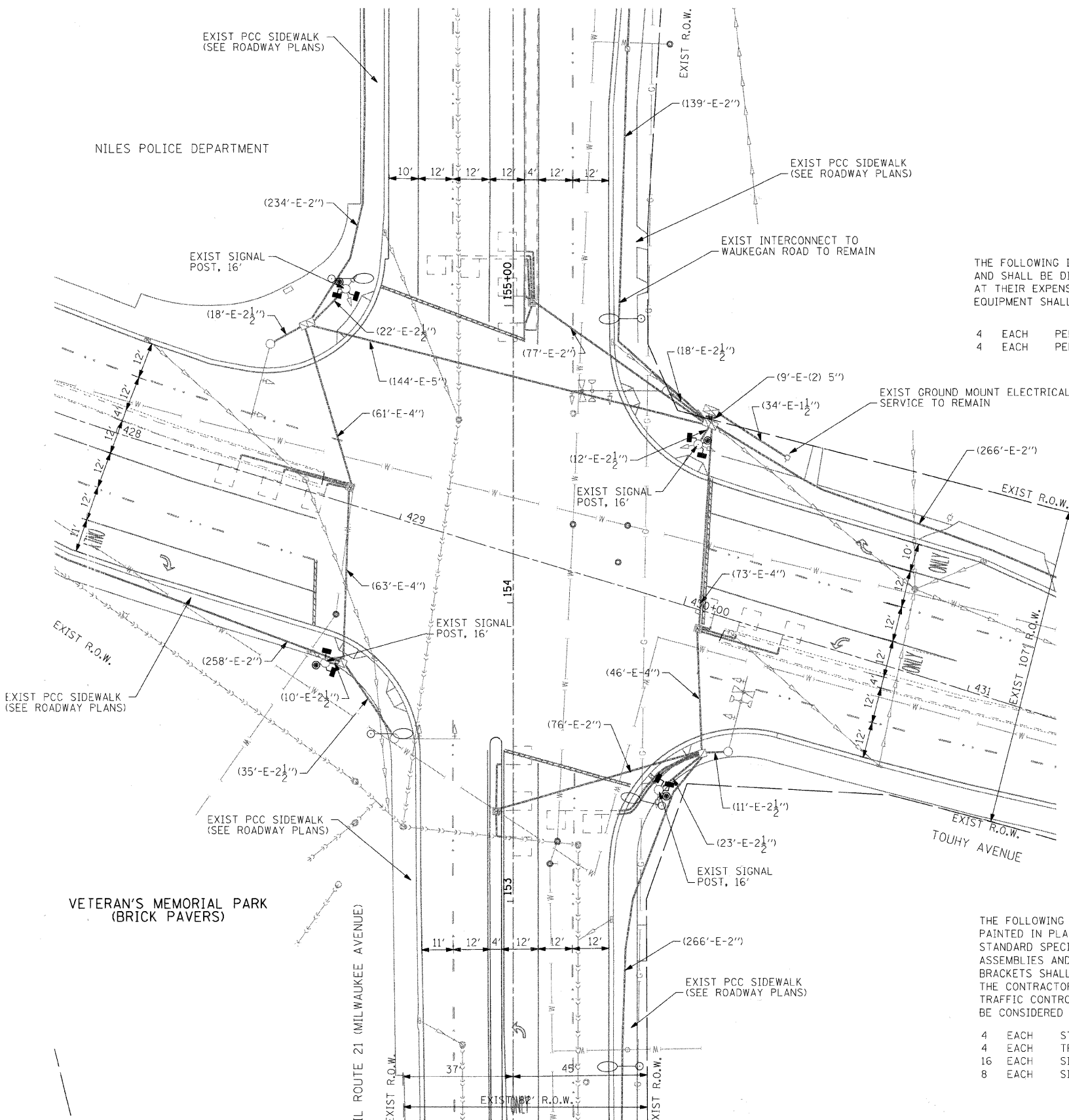
TRAFFIC SIGNALS LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
COMMON TRENCH		
UNIT DUCT		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
VIDEO DETECTION CAMERA		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
UNINTERRUPTABLE POWER SUPPLY		

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE NEW PEDESTRIAN SIGNAL HEADS WITH COUNTDOWN TIMERS AND ANY NEW BRACKETS SHALL BE PAINTED BLACK WHICH SHALL BE INCLUDED WITH THE COST OF THE PEDESTRIAN SIGNAL HEADS.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED IN PLACE IN ACCORDANCE WITH SECTION 851 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STEEL MAST ARM ASSEMBLIES AND POLES, SIGNAL POSTS, SIGNAL HOUSINGS, AND BRACKETS SHALL BE PAINTED WITH TWO COATS OF 'BLACK' PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING PAINTING OPERATIONS, WHICH SHALL BE CONSIDERED AS INCLUDED IN THE RELATED PAINTING PAY ITEM.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE, UNDER 40'
- 4 EACH TRAFFIC SIGNAL POST
- 16 EACH SIGNAL HEADS (DOORS, VISORS, HOUSINGS & BRACKETS)
- 8 EACH SIGNAL BACKPLATES



USER NAME = charlie	DESIGNED - JJS	REVISED -
PLOT SCALE = 20	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

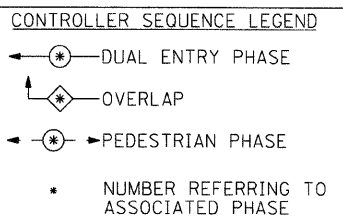
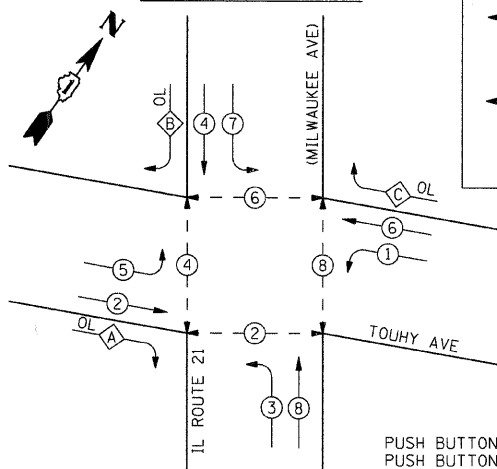
VILLAGE OF NILS

TRAFFIC SIGNAL INSTALLATION PLAN
MILWAUKEE AVENUE AT TOUHY AVENUE

SCALE: 20 SHEET NO. 10 OF 16 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 67
CONTRACT NO. 08-00107-00-PV				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				

EXISTING AND PROPOSED CONTROLLER SEQUENCE

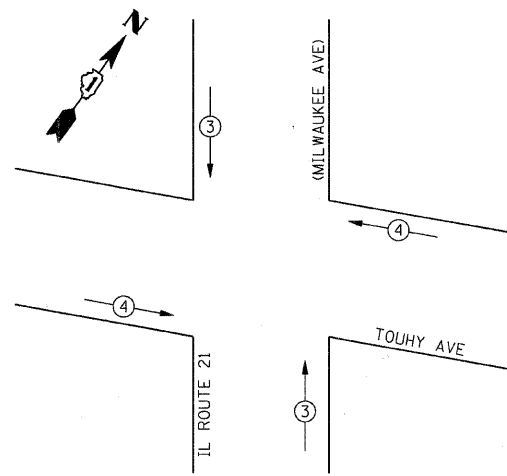


PHASE DESIGNATION DIAGRAM

OVERLAP PHASE	PERMISSIVE PHASE	PROTECTED PHASE
A	=	2
B	=	4
C	=	6
		+
		3
		5
		7

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	→

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	17	0.50	136	
(YELLOW)	16	25	0.25	100	
(GREEN)	16	15	0.25	60	
ARROW (YELLOW)	14	12	0.10	16.8	
ARROW (GREEN)	14	12	0.10	16.8	
PEDESTRIAN SIGNAL	8	25	1.00	200	
CONTROLLER	1	100	1.00	100	
TOTAL =					629.6

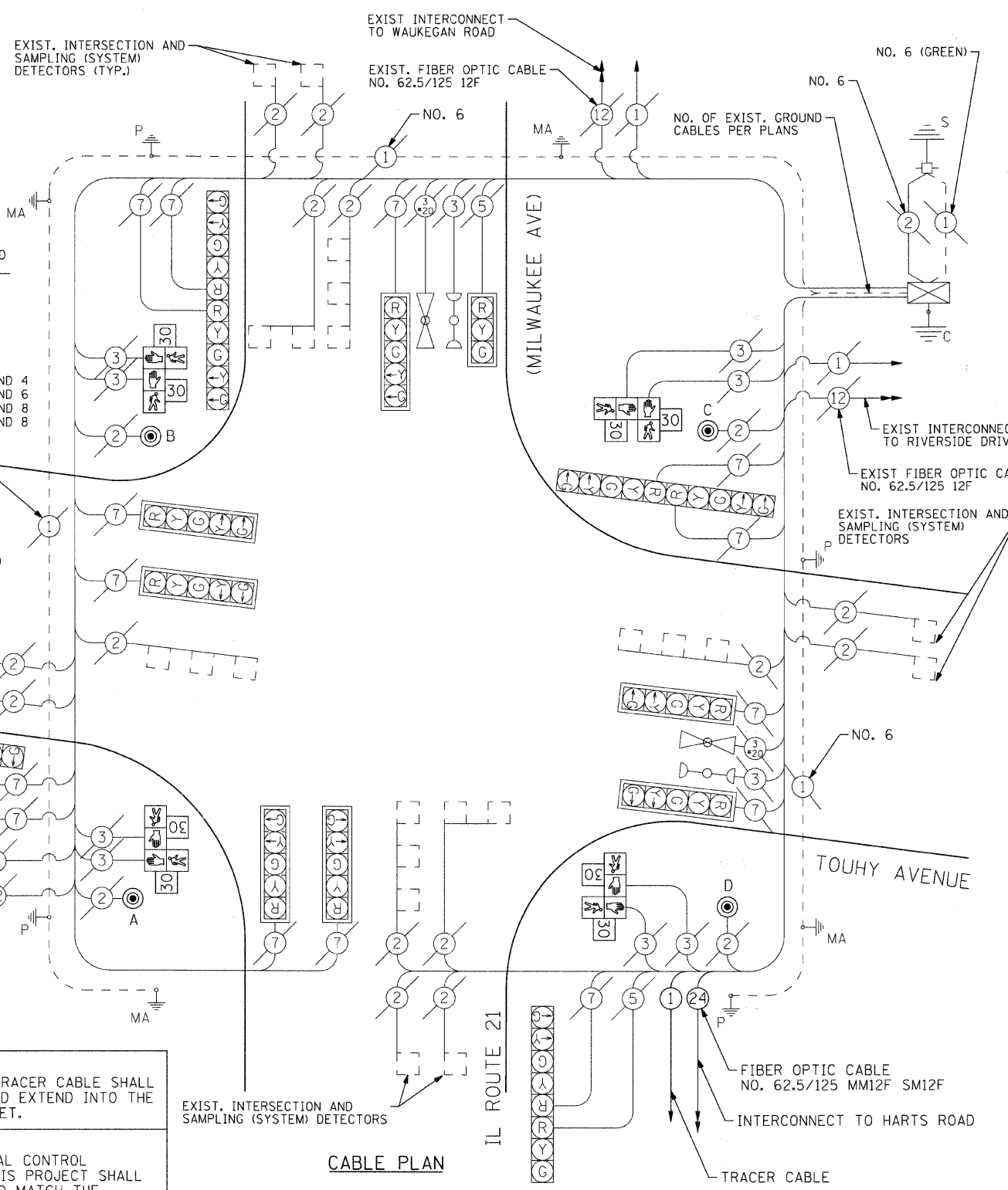
NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FOUNDATION (DEP'H)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2'
E - M.A. LENGTH		SIGNAL POST	2 (1.0)		(6m+L-0.6m)
<40'	30" (762mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED
<50'	36" (914mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON
≥50'	36" (914mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE
			GROUND CABLE	1 (0.5)	SERVICE TO GROUND
					POST MOUNTED
					6 (1.8)

ENERGY COSTS TO: VILLAGE OF NILES
 1000 CIVIC CENTER DRIVE
 NILES IL 60714-3229

ENERGY SUPPLY CONTACT: MAUREEN RAYE
 PHONE: (847) 816-5492
 COMPANY: COMMONWEALTH EDISON



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| | | 12" TRAFFIC SIGNAL SECTION |
| | | 12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | | "E" RAILROAD CONTROL CABINET |
| | | V VIDEO DETECTION CAMERA |
| | | R Y G SIGNAL FACE WITH BACKPLATE |
| | | "P" "P" INDICATES PROGRAMMED HEAD |
| | | MA/P GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | | H/C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | UPS UNINTERRUPTABLE POWER SUPPLY |

CABLE PLAN

SCHEDULE OF QUANTITIES

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1



USER NAME = char-ike	DESIGNED - JJS	REVISED -
PLOT SCALE = NTS	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

CABLE PLAN AND PHASE DESIGNATION DIAGRAM MILWAUKEE AVE AT TOUHY AVE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	68
CONTRACT NO.				M-8003(723)

SCALE: NTS SHEET NO. 11 OF 16 SHEETS STA. TO STA.

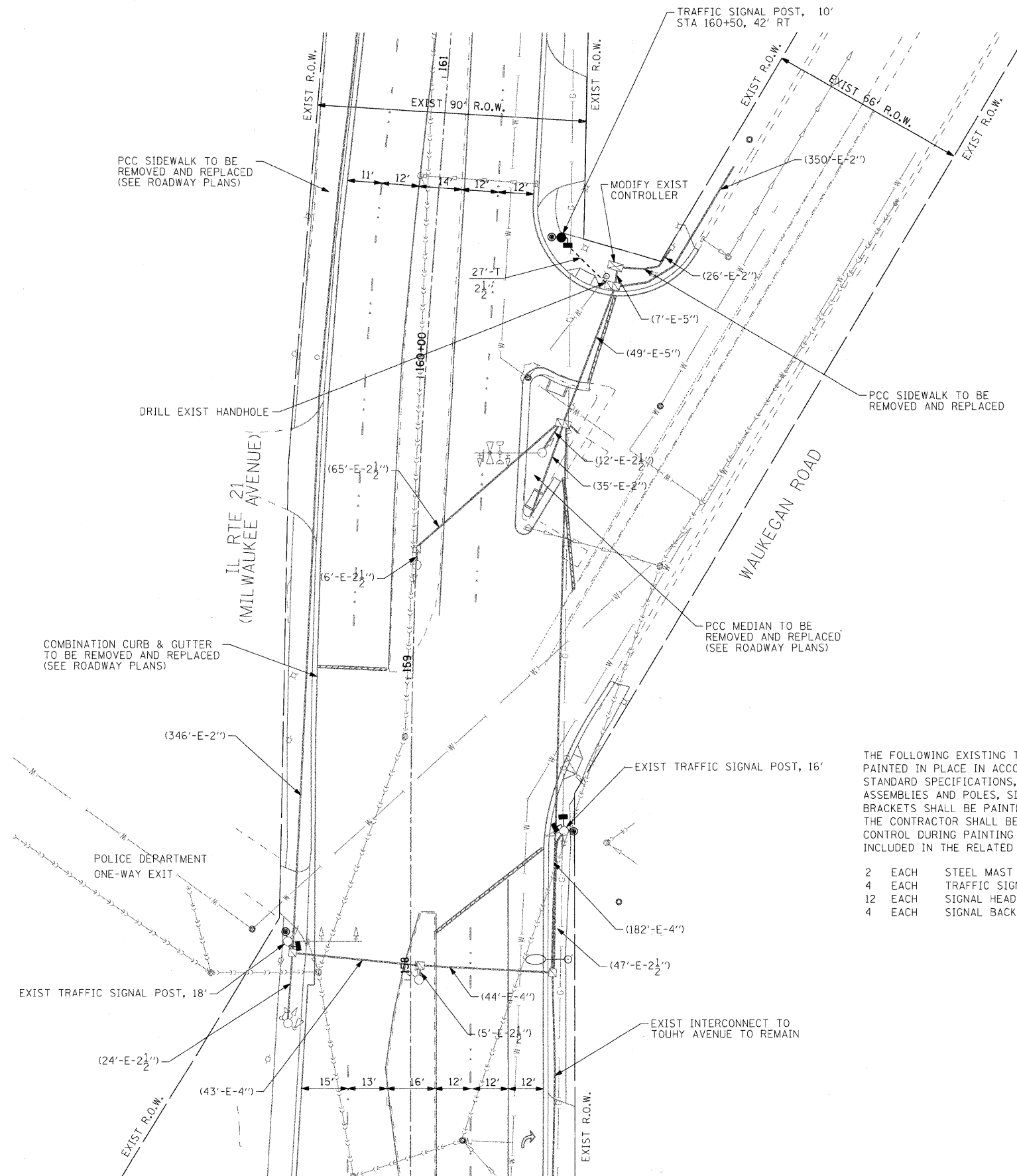
TRAFFIC SIGNALS LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		
COMMON TRENCH		
UNIT DUCT		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
VIDEO DETECTION CAMERA		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
UNINTERRUPTABLE POWER SUPPLY		

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE NEW PEDESTRIAN SIGNAL HEADS WITH COUNTDOWN TIMERS AND ANY NEW BRACKETS SHALL BE PAINTED BLACK WHICH SHALL BE INCLUDED WITH THE COST OF THE PEDESTRIAN SIGNAL HEADS.

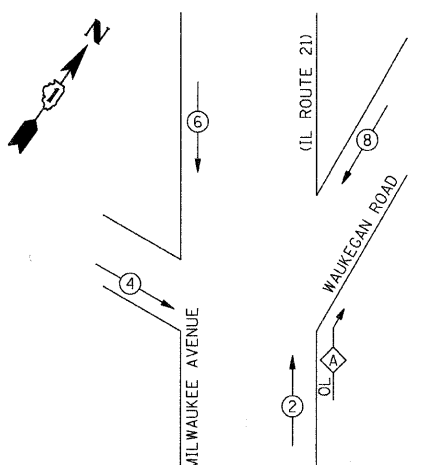


THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED IN PLACE IN ACCORDANCE WITH SECTION 851 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STEEL MAST ARM ASSEMBLIES AND POLES, SIGNAL POSTS, SIGNAL HOUSINGS, AND BRACKETS SHALL BE PAINTED WITH TWO COATS OF 'BLACK' PAINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING PAINTING OPERATIONS, AND SHALL BE CONSIDERED INCLUDED IN THE RELATED PAINTING PAY ITEM.

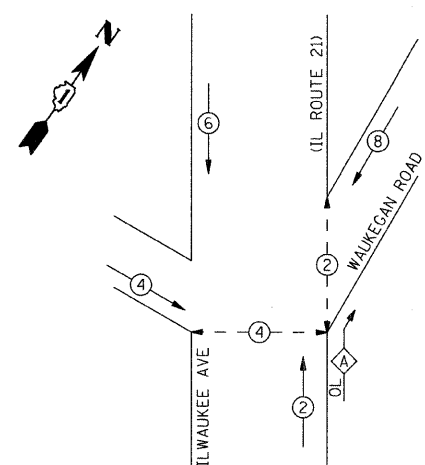
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, UNDER 40'
4	EACH	TRAFFIC SIGNAL POST
12	EACH	SIGNAL HEADS (DOORS, VISORS, HOUSINGS & BRACKETS)
4	EACH	SIGNAL BACKPLATES

MILWAUKEE AVENUE IMPROVEMENTS
08031723
06/25/07permaig03.cgm

EXISTING CONTROLLER SEQUENCE



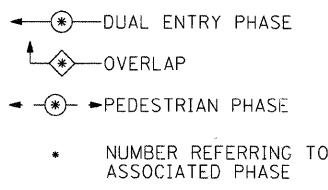
PROPOSED CONTROLLER SEQUENCE



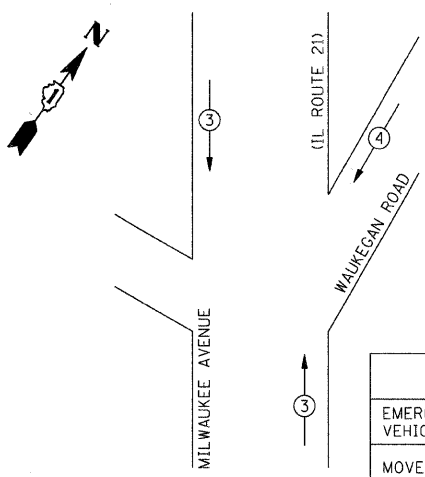
PHASE DESIGNATION DIAGRAM

OVERLAY PHASE	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8

CONTROLLER SEQUENCE LEGEND

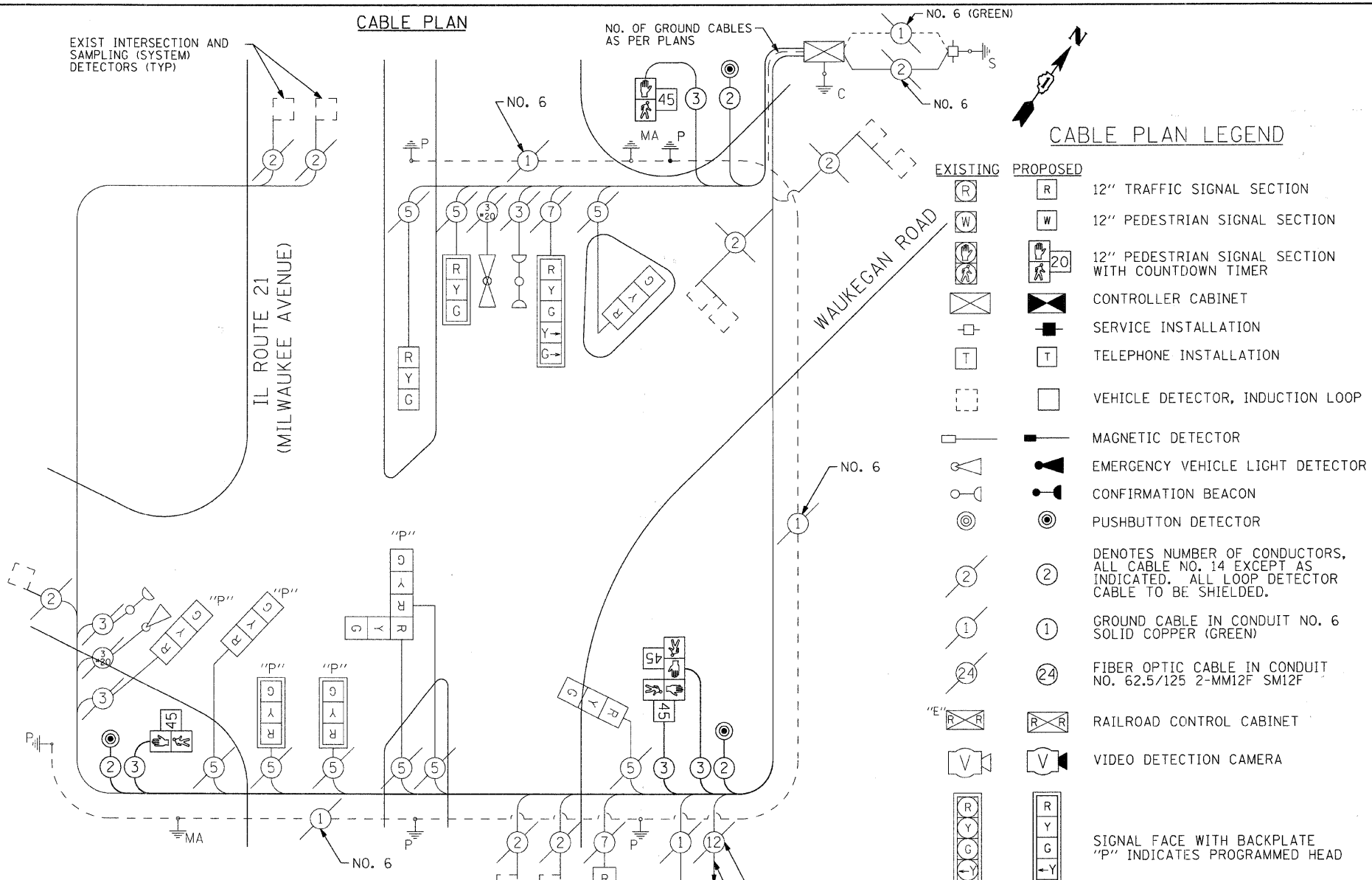


EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	↘

CABLE PLAN



CABLE PLAN LEGEND

- | EXISTING | PROPOSED | |
|----------|----------|---|
| [R] | [R] | 12" TRAFFIC SIGNAL SECTION |
| [W] | [W] | 12" PEDESTRIAN SIGNAL SECTION |
| [P] | [P] | 12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER |
| [C] | [C] | CONTROLLER CABINET |
| [S] | [S] | SERVICE INSTALLATION |
| [T] | [T] | TELEPHONE INSTALLATION |
| [D] | [D] | VEHICLE DETECTOR, INDUCTION LOOP |
| [M] | [M] | MAGNETIC DETECTOR |
| [E] | [E] | EMERGENCY VEHICLE LIGHT DETECTOR |
| [B] | [B] | CONFIRMATION BEACON |
| [P] | [P] | PUSHBUTTON DETECTOR |
| (2) | (2) | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| (1) | (1) | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| (24) | (24) | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| [R] | [R] | RAILROAD CONTROL CABINET |
| [V] | [V] | VIDEO DETECTION CAMERA |
| [R] | [R] | SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD |
| [P] | [P] | GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| [H] | [H] | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| [S] | [S] | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| [UPS] | [UPS] | UNINTERRUPTABLE POWER SUPPLY |

SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2 1/2" DIA, GALVANIZED STEEL	FOOT	27
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	23
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2/C	FOOT	839
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3/C	FOOT	1,225
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN PUSH BUTTON	EACH	3
MODIFY EXISTING CONTROLLER	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6, 1/C	FOOT	88
PAINT NEW TRAFFIC SIGNAL POST	EACH	1

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2= (6m+L-0.6m)
C - M.A. LENGTH		SIGNAL POST	2 (1.0)		
<40'	30" (762mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED
<50'	36" (914mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON
>50'	36" (914mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE
			GROUND CABLE	1 (0.5)	SERVICE TO GROUND
					POST MOUNTED

NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12	17	0.50		102
(YELLOW)	12	25	0.25		75
(GREEN)	12	15	0.25		45
ARROW (YELLOW)	2	12	0.10		2.4
ARROW (GREEN)	2	12	0.10		2.4
PED. SIGNAL	4	25	1.00		100
CONTROLLER	1	100	1.00		100
TOTAL =					426.8

ENERGY COSTS TO: VILLAGE OF NILES
1000 CIVIC CENTER DRIVE
NILES IL 60714-3229

ENERGY SUPPLY CONTACT: MAUREEN RAYE
PHONE: (847) 816-5492
COMPANY: COMMONWEALTH EDISON



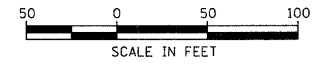
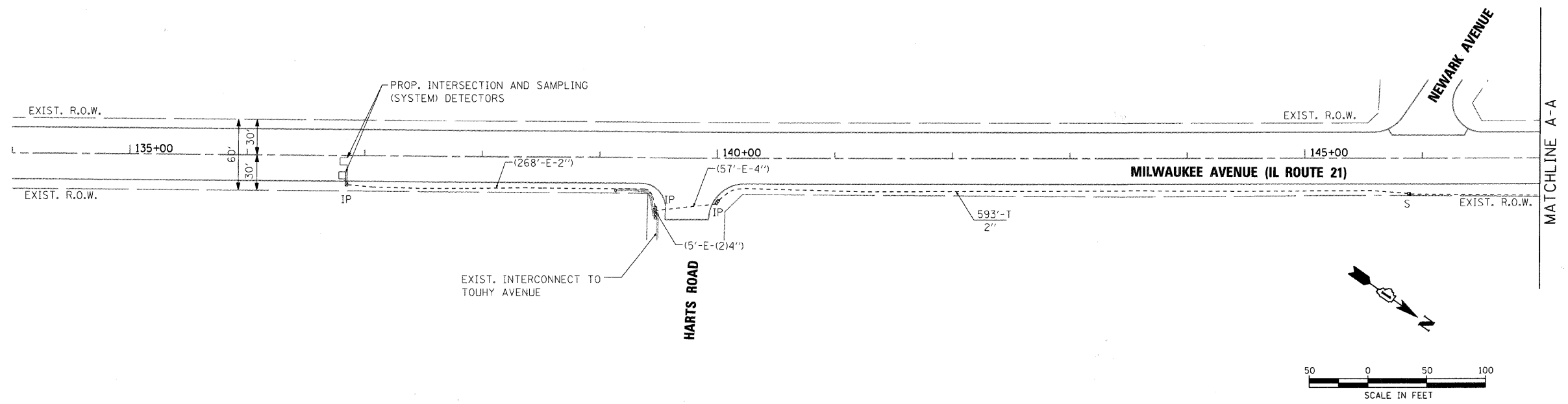
USER NAME = charlie	DESIGNED - JJS	REVISED -
DESIGNED - JJS	DRAWN - JJS	REVISED -
CHECKED - APS	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
MILWAUKEE AVENUE AT WAUKEGAN ROAD

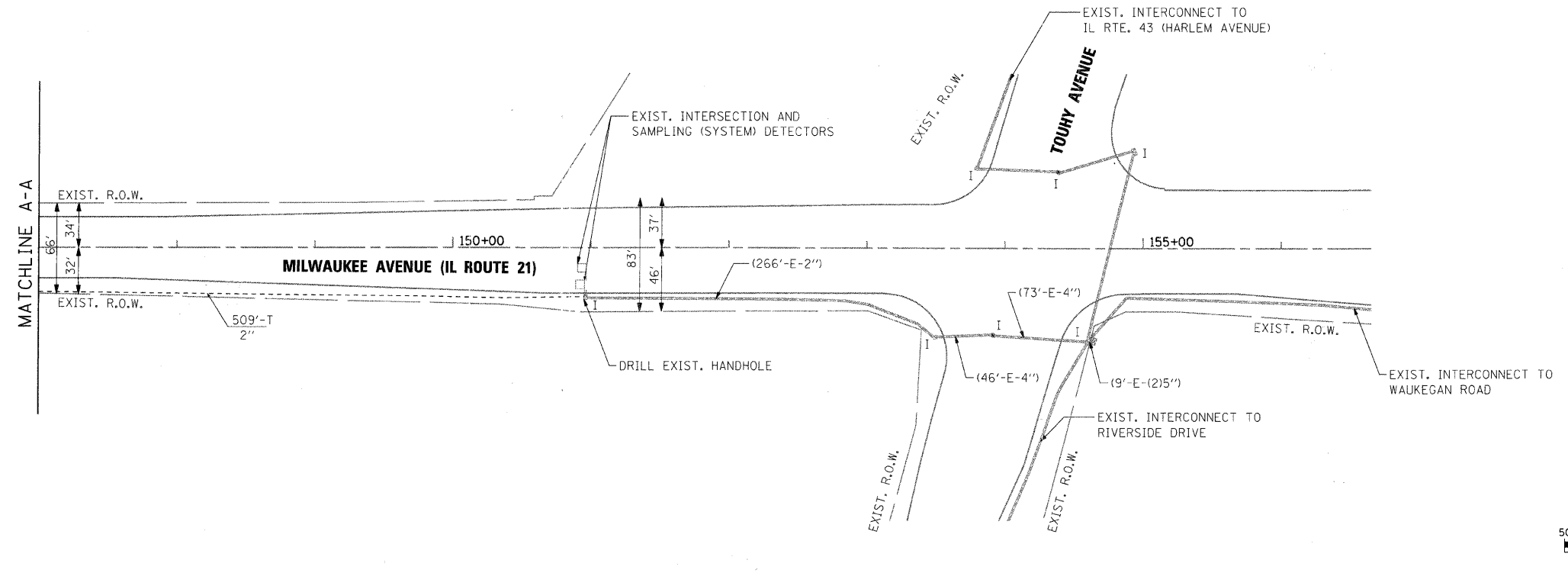
SCALE: NTS SHEET NO. 13 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	70
CONTRACT NO. 08-00107-00-PV				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				



INTERCONNECT SCHEMATIC LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	S
INTERSECTION	IP	I
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM		
SPAN WIRE		



RESTORATION OF WORK AREA
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
 THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.



USER NAME = char-tke	DESIGNED - JJS	REVISED -
PLOT SCALE = 50	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

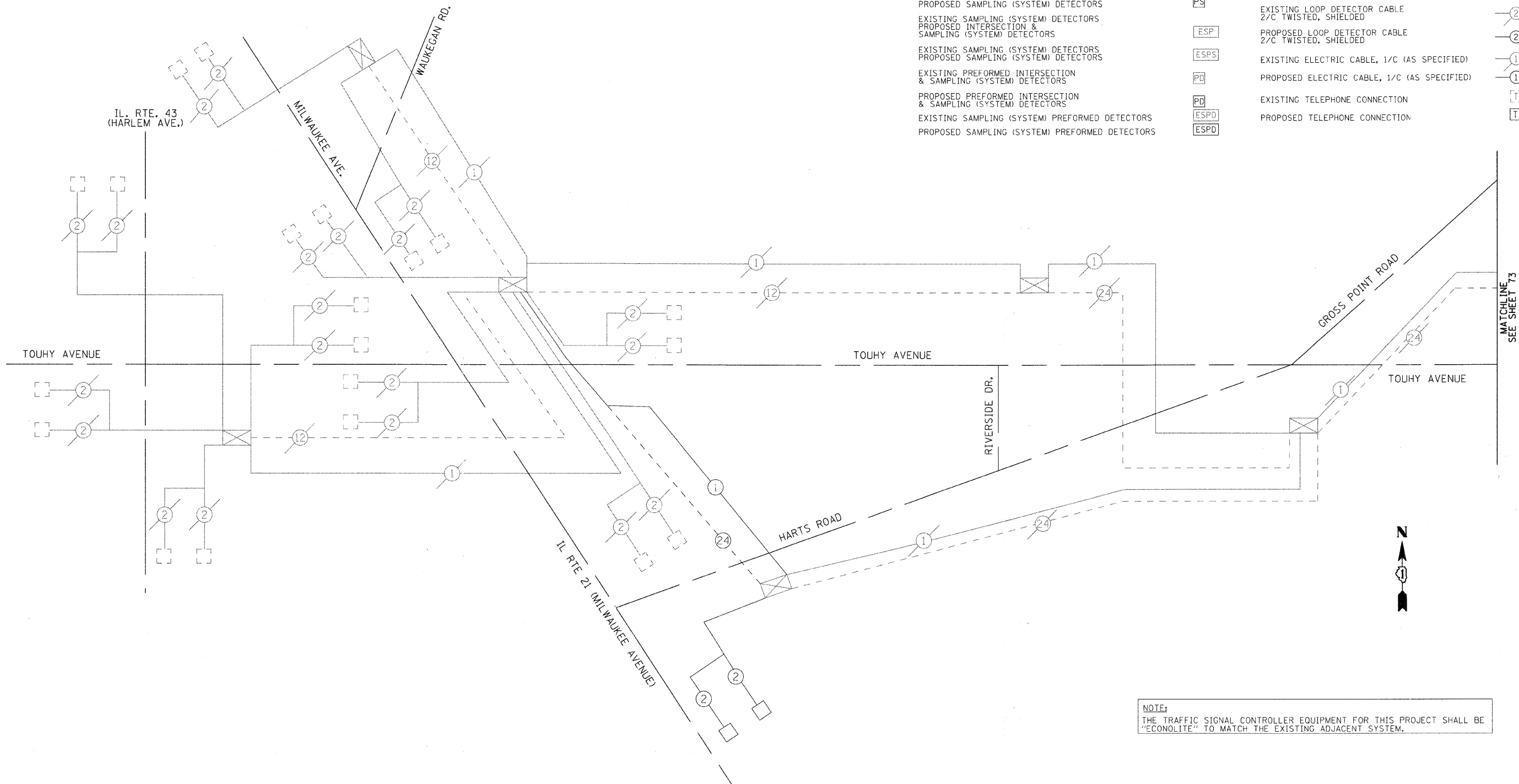
INTERCONNECT PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HARTS ROAD TO TOUHY AVENUE		3513	08-00107-00-PV	COOK	169	71
SCALE: 50	SHEET NO. 14 OF 16 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	M-8003(723)

INTERCONNECT SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	1,102
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,094
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 14 1/C	FOOT	1,214
FIBER OPTIC IN CONDUIT, NO. 62.5/125, MM12F, SM12F	FOOT	1,214
DRILL EXISTING HANDHOLE	EACH	1
TRAFFIC CONTROL AND PROTECTION	LSUM	1
OPTIMIZE TRAFFIC SIGNAL SYSTEM, LEVEL 1	EACH	1

INTERCONNECT SCHEMATIC LEGEND

EXISTING INTERSECTION CONTROLLER		EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	
PROPOSED INTERSECTION CONTROLLER		PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.3/125, MM12F SM12F	
EXISTING MASTER CONTROLLER		EXISTING INTERCONNECT CABLE NO. 62.5/125 12F FIBER OPTIC CABLE	
PROPOSED MASTER CONTROLLER		PROPOSED INTERCONNECT CABLE NO. 62.5/125 12F FIBER OPTIC CABLE	
MASTER MASTER CONTROLLER		EXISTING INTERCONNECT CABLE NO. 18 3 PAIR TWISTED, SHIELDED	
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTOR		PROPOSED INTERCONNECT CABLE NO. 18 3 PAIR TWISTED, SHIELDED	
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTOR		EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
EXISTING INTERSECTION LOOP DETECTORS & PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
EXISTING SAMPLING (SYSTEM) DETECTORS		EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)	
PROPOSED SAMPLING (SYSTEM) DETECTORS		PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	
EXISTING SAMPLING (SYSTEM) DETECTORS & PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS		EXISTING TELEPHONE CONNECTION	
EXISTING SAMPLING (SYSTEM) DETECTORS		PROPOSED TELEPHONE CONNECTION	
EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS			
PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS			
EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS			
PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS			



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



USER NAME = char tke	DESIGNED - JJS	REVISED -
PLOT SCALE = NTS	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

**INTERCONNECT SCHEMATIC
TOUHY AVENUE/HARTS ROAD
FROM IL RTE 43 TO CENTRAL AVENUE**

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 72
SCALE: NTS		SHEET NO. 15 OF 16 SHEETS		STA. TO STA.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT M-8003(723)		

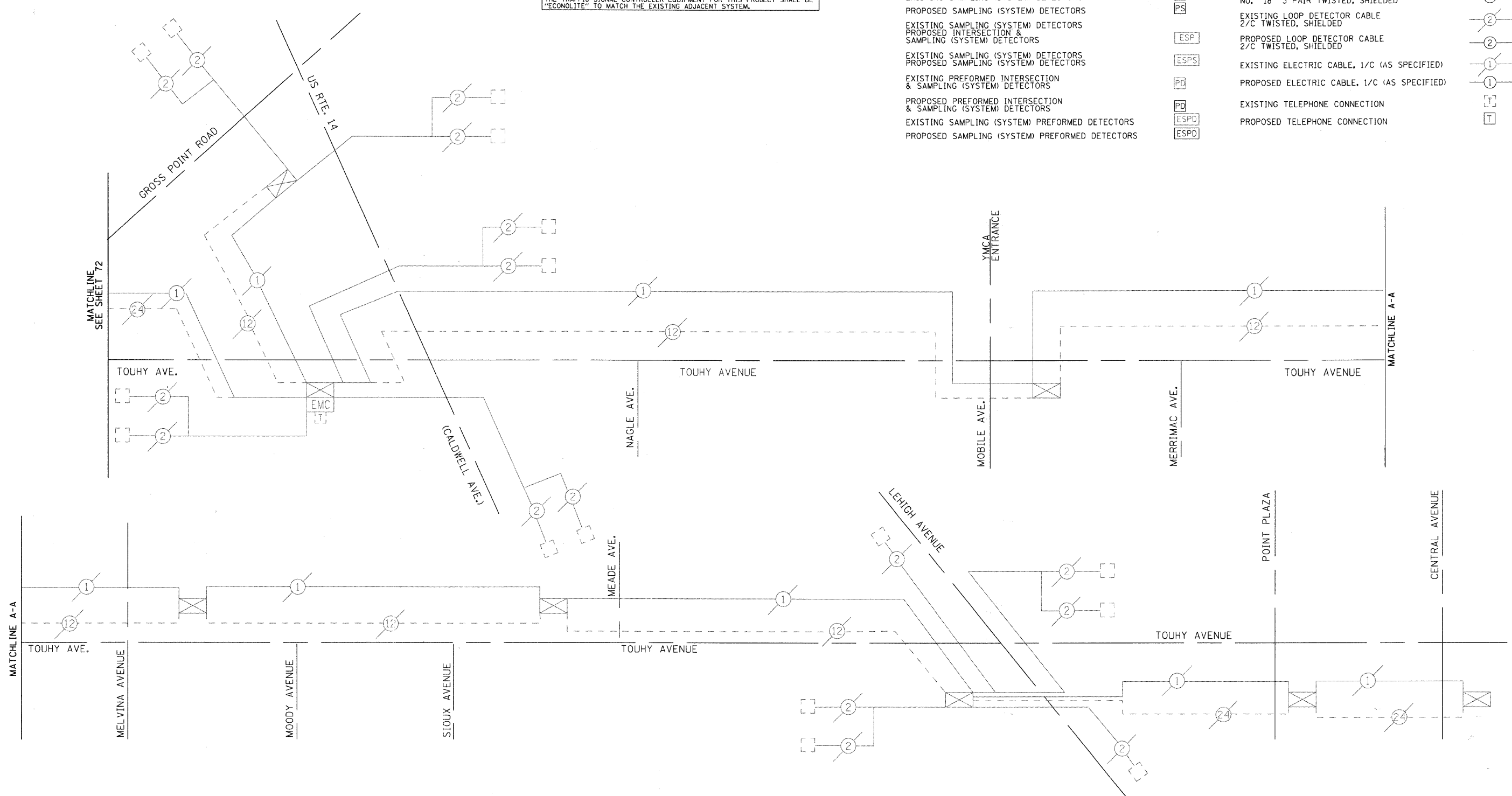
INTERCONNECT SCHEMATIC LEGEND



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER
- PROPOSED MASTER CONTROLLER
- MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTOR
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTOR
- EXISTING INTERSECTION LOOP DETECTORS & PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS & PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS & SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS
- PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS

- EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.3/125, MM12F SM12F
- EXISTING INTERCONNECT CABLE NO. 62.5/125 12F FIBER OPTIC CABLE
- PROPOSED INTERCONNECT CABLE NO. 62.5/125 12F FIBER OPTIC CABLE
- EXISTING INTERCONNECT CABLE NO. 18 3 PAIR TWISTED, SHIELDED
- PROPOSED INTERCONNECT CABLE NO. 18 3 PAIR TWISTED, SHIELDED
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
- PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
- EXISTING TELEPHONE CONNECTION
- PROPOSED TELEPHONE CONNECTION



USER NAME = charlie	DESIGNED - JJS	REVISED -
PLOT SCALE = NTS	DRAWN - JJS	REVISED -
PLOT DATE = 12/22/2008	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

INTERCONNECT SCHEMATIC
TOUHY AVENUE/HARTS ROAD
FROM IL RTE 43 TO CENTRAL AVENUE

SCALE: NTS SHEET NO. 16 OF 16 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-00:PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 73
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT M-8003(723)		




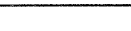
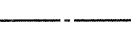





SUMMARY OF QUANTITIES

PAY CODE	ITEM	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
81000800	CONDUIT IN TRENCH, 3" DIA. GALVANIZED STEEL	FOOT	120
81018900	CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL	FOOT	264
81702460	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	150
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	500
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	8
82500505	LIGHTING CONTROLLER SPECIAL	EACH	1
83006500	LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	4
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	234
83600215	LIGHT POLE FOUNDATION, OFFSET	FOOT	50
	POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA. WITH ELECTRIC CABLE 600 V (XLP-TYPE USE), 3-1/C NO. 6 AND 1/C NO.6 GROUND	FOOT	2,756
	ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16 FT HEIGHT, POST, TOP MOUNTED LUMINAIRE, 50 WATT HPS	EACH	11
	ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16 FT HEIGHT, POST, TOP MOUNTED LUMINAIRE, 150 WATT HPS	EACH	17
	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	2
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	32

- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL.
- THE CONTRACTOR SHALL CONSULT WITH RESIDENT ENGINEER IN THE FIELD, AND FINALIZED ALL EXISTING ROADWAY LIGHTING ITEMS.
- THE RESPONSIBILITY FOR COORDINATION FINISHED SIDEWALK ELEVATIONS WITH THE TOP OF THE FOUNDATIONS HEIGHTS SHALL REMAINS WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER REVIEW WITHIN 30 DAYS A DATA AND DETAIL SHOP DRAWINGS TO THE ATTENTIONS VILLAGE OF NILES, COOK COUNTY DEPARTMENT OF PUBLIC WORKS:
 - TRENCH, ELECTRICAL WARNING TAPE
 - FOUNDATION: CONCRETE MIX, RACEWAYS, ANCHOR BOLTS WITH NUTS & WASHERS.
 - CONDUIT: CONDUIT AND CONDUIT FITTINGS, BONDING COMPOUND
 - GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
 - UNIT DUCT/CABLES
 - ELECTRIC CABLES
 - ELECTRIC TAPES, QUICK DISCONNECT, FUSE & LAMP.
 - LIGHT POLES/ARM: DETAILS SHOP DRAWING, WIND LOAD CALCULATIONS (SHALL BE REVIEWED BY CONSULTANT CIVIL ENGINEER)
 - LUMINAIRE: LUMINAIRE WITH BALLAST ASSEMBLY
 - LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS.
- ELECTRIC CABLE INSULATION SHALL BE FULLY PIGMENTED COLOR CODED AS SPECIFIED.
- FINISH PAINT:
THE PAINT COLOR AND FINISH SHALL BE POWDER COATED. FOR THE LIGHT POLE AND LUMINAIRE THE VILLAGE OF NILES SHALL APPROVE THE PAINT COLOR AND FINISH.
- LIGHT POLE FOUNDATION HOLE,
EACH HOLE FOR THE FOUNDATIONS SHALL BE INSPECTED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE FOUNDATIONS.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE, NEAT AND A LDINSPECTION.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF NILES TO LOCATE AND MARK/STAKE ALL VILLAGE OWNED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW, CONSTRUCTION STAGING FOR THE PROPOSED ROADWAY LIGHTING WORK, AND THE CONTRACTOR SHALL OBTAIN PRIOR WRITTEN APPROVAL FROM THE RESIDENT ENGINEER.

- THE LIGHT POLE SETBACK:
3'-0" FROM BACK OF CURB TO THE FACE OF FOUNDATION.
- RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CHISEL ARROWS LOCATING ALL CONDUIT CROSSINGS ACROSS ROADWAYS. THE CHISEL MARKS SHALL BE ON THE CURB.
- THE CONTRACTOR SHALL COMPLY WITH ALL LATEST IDOT, IES, NEC AND LOCAL CODES AND ORDINANCES.
- ALL UNIT DUCT SHALL BE INSTALLED USING THE BORE AND PULL METHOD. ALL BORING S
- ALL STREET CROSSINGS SHALL HAVE GALVANIZED STEEL CONDUIT OF THE SIZE INDICATED PUSHED BENEATH THEM. PAYMENT SHALL BE LIMITED TO THE ACTUAL WIDTH PLUS TWO FEET (BE INCLUDED IN THE UNIT PRICE FOR PUSHING THE GALVANIZED STEEL CONDUIT.
- THE CONTRACTOR SHALL MAINTAIN, THE EXISTING LIGHTING SYSTEM IN OPERATION, DURING THE CONSTRUCTION PHASE OF PROPOSED LIGHTING.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

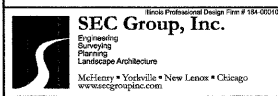
SYMBOLS

-  PROPOSED LIGHTING UNIT, 30FT. MH, 12FT. MA 310W HPS MCIII, 240V LUMINAIRE WITH 18FT. MH 50W HPS LUMINAIRE, MAINTAINED BY THE VILLAGE OF NILES
-  EXISTING LIGHTING UNIT, 30 FT MH, 12 FT MA 250W HPS MCIII, 240V LUMINAIRE, MAINTAINED BY THE VILLAGE OF NILES, REMAIN IN PLACE
-  EXISTING UTILITY SERVICE POLE, COMED #80423 240 VOLT/480 VOLT, 1 PHASE
-  SERVICE CABLE IN CONDUIT, ELECTRIC CABLE IN CONDUIT 600V (XLP-TYPE USE-2), 3-1/C NO. 3/0 3" DIA CONDUIT
-  POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE 600 V (XLP - TYPE USE-2) 3-1/C NO. 6 AND 1/C NO. 6 GROUND
-  GROUND ROD, 5/8" DIA. x 8 FT
-  LIGHTING CONTROLLER, SPECIAL CONSOLE TYPE 200 AMPERE - 240/480 VOLT, 1 PHASE
-  GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P) DIAMETER x LENGTH
-  ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE 16 FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 50 WATT MCIII CLEAR HIGH PRESSURE SODIUM LAMP BALLAST- MULTIVOLT TYPE CWA, 240 VOLT (LINE TO NEUTRAL) LIGHTING UNIT PAINTED IN BLACK COLOR FINISH
-  STA. 156+67 H-1 (B) ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE 16 FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 150 WATT MCIII CLEAR HIGH PRESSURE SODIUM LAMP BALLAST- MULTIVOLT TYPE CWA, 240 VOLT (LINE TO NEUTRAL) LIGHTING UNIT PAINTED IN BLACK COLOR FINISH
PHASE COLOR
CIRCUIT BREAKER WITH POLE NUMBER

ORNAMENTAL LIGHTING UNIT
MANUFACTURED BY STERNBERG LIGHTING

a. POST WITH CAST ALUMINUM BASE LOUISVILLE #5614-TS-BK

b. POST TOP MOUNTED LUMINAIRE
EURO SERIES #E450-SG 150W OR 50W HPS-MULTI 240-BK



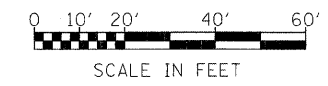
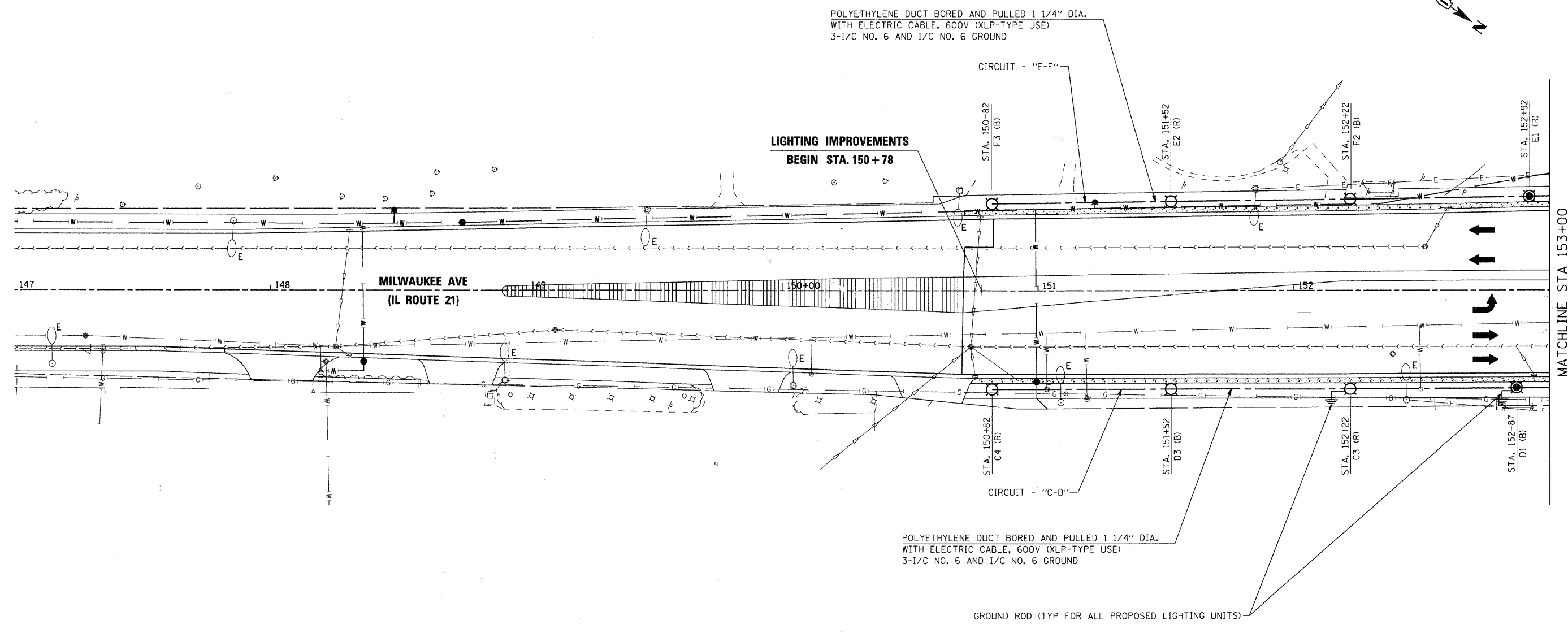
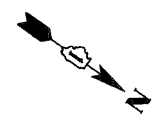
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	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

BILL OF MATERIALS, SYMBOLS, & GENERAL NOTES

SCALE: NTS SHEET NO. 1 OF 13 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 74
CONTRACT NO. M-8003(723)				



USER NAME = chartke	DESIGNED - BDL	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
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	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PROPOSED ORNAMENTAL LIGHTING

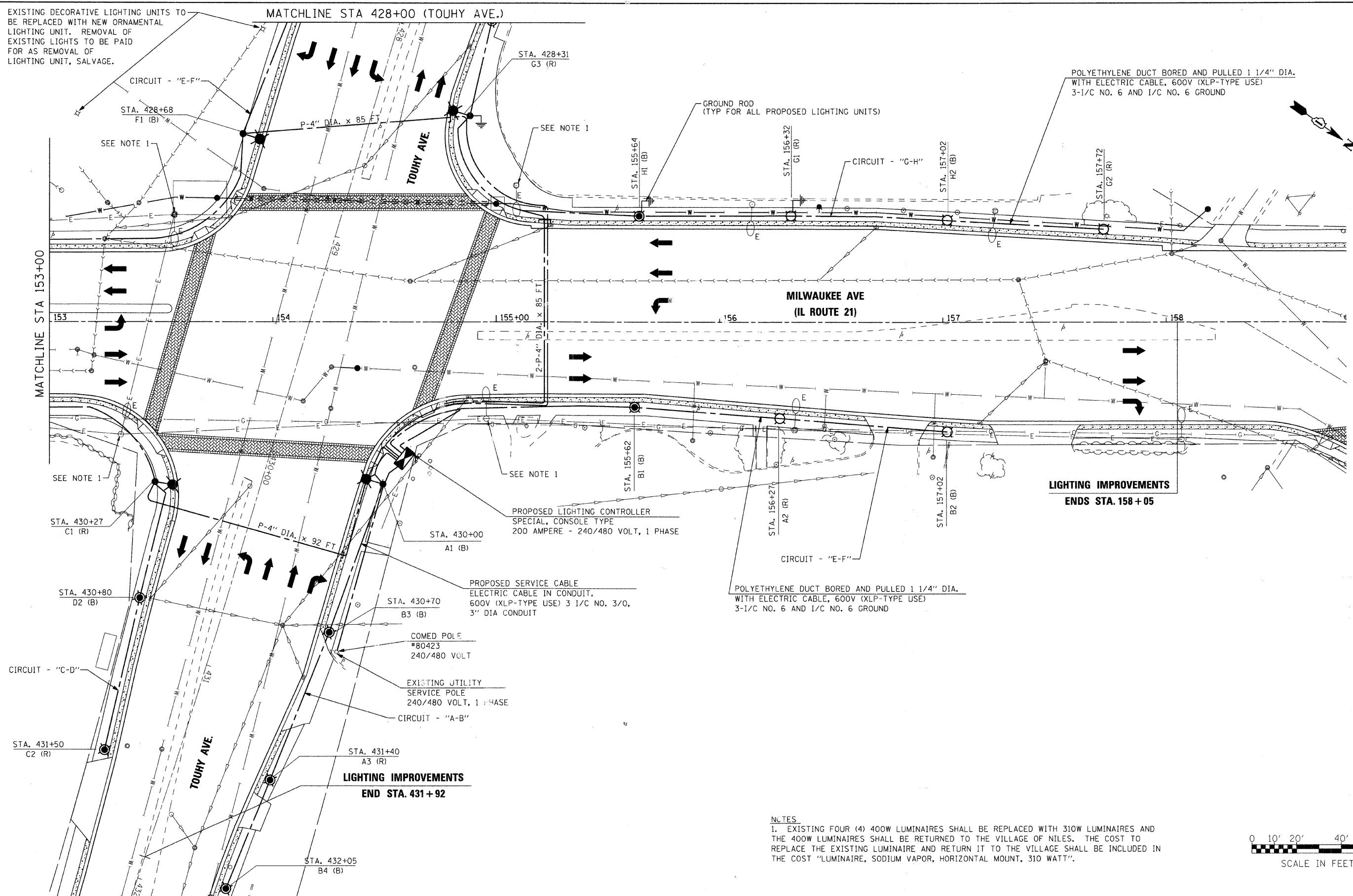
SCALE: 1"=20' SHEET NO. 2 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	75
CONTRACT NO.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT M - 8003(723)	

EXISTING DECORATIVE LIGHTING UNITS TO BE REPLACED WITH NEW ORNAMENTAL LIGHTING UNIT. REMOVAL OF EXISTING LIGHTS TO BE PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE.

MATCHLINE STA 428+00 (TOUHY AVE.)

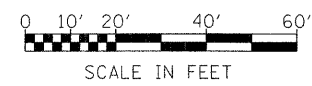
POLYETHYLENE DUCT BORED AND PULLED 1 1/4" DIA. WITH ELECTRIC CABLE, 600V (XLP-TYPE USE) 3-1/C NO. 6 AND 1/C NO. 6 GROUND



**LIGHTING IMPROVEMENTS
ENDS STA. 158 + 05**

**LIGHTING IMPROVEMENTS
END STA. 431 + 92**

NOTES
1. EXISTING FOUR (4) 400W LUMINAIRES SHALL BE REPLACED WITH 310W LUMINAIRES AND THE 400W LUMINAIRES SHALL BE RETURNED TO THE VILLAGE OF NILES. THE COST TO REPLACE THE EXISTING LUMINAIRE AND RETURN IT TO THE VILLAGE SHALL BE INCLUDED IN THE COST "LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT".



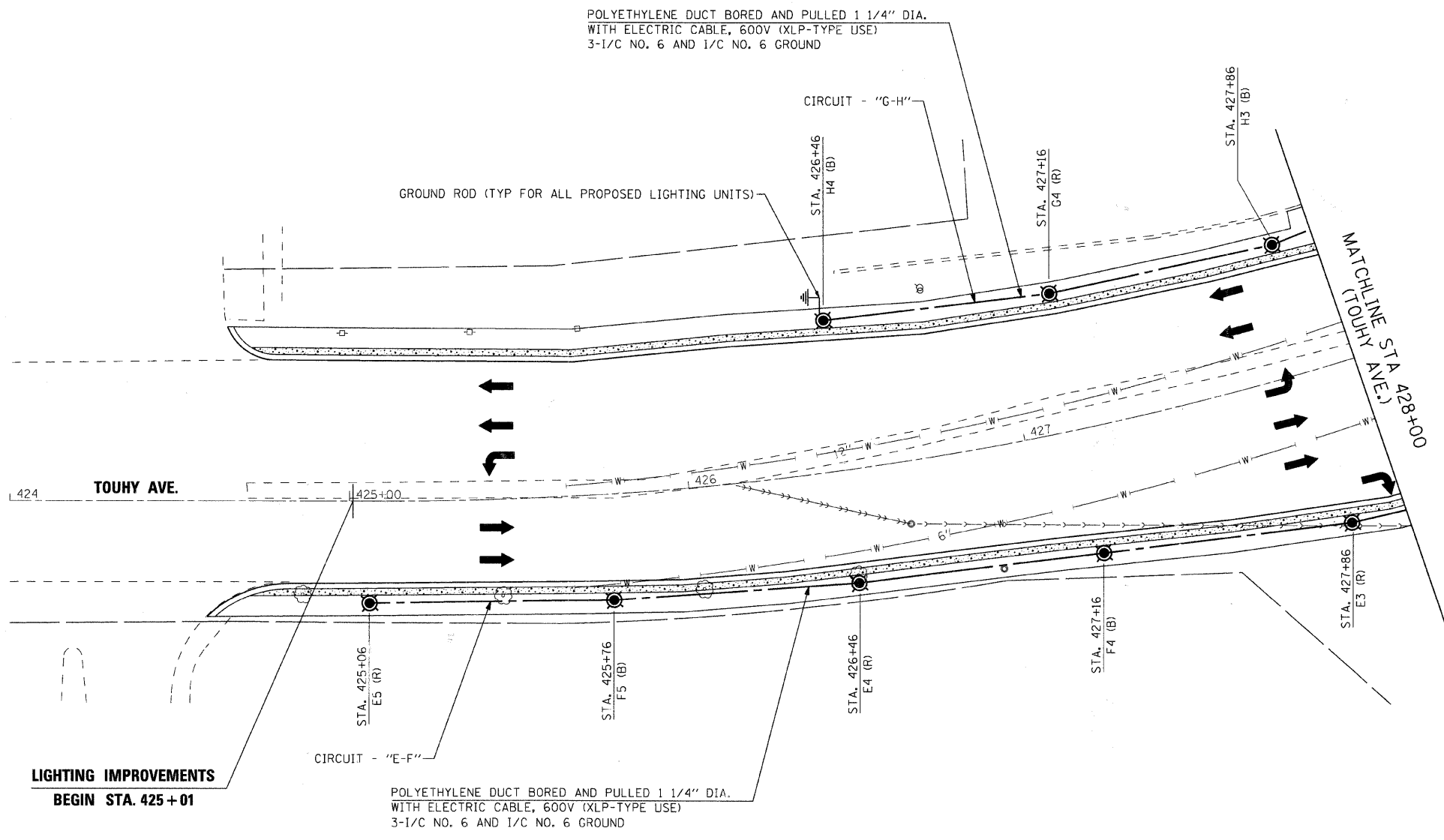
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VILLAGE OF NILES

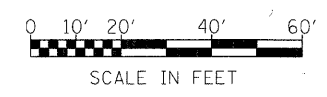
PROPOSED ORNAMENTAL LIGHTING

SCALE: 1"=20' SHEET NO. 3 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	76
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	M - 8003(723)		



**LIGHTING IMPROVEMENTS
BEGIN STA. 425 + 01**



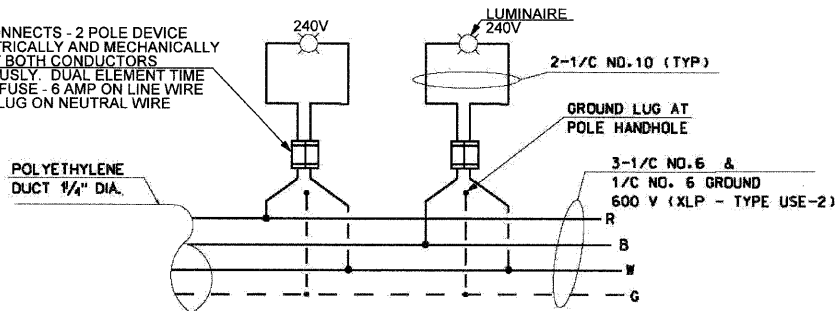
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PLOT DATE = 1/16/2009	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

PROPOSED ORNAMENTAL LIGHTING			
SCALE: 1"=20'	SHEET NO. 4 OF 13 SHEETS	STA.	TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 77
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	M - 8003(723)	

QUICK DISCONNECTS - 2 POLE DEVICE SHALL ELECTRICALLY AND MECHANICALLY DISCONNECT BOTH CONDUCTORS SIMULTANEOUSLY. DUAL ELEMENT TIME DELAY TYPE FUSE - 6 AMP ON LINE WIRE AND SOLID SLUG ON NEUTRAL WIRE

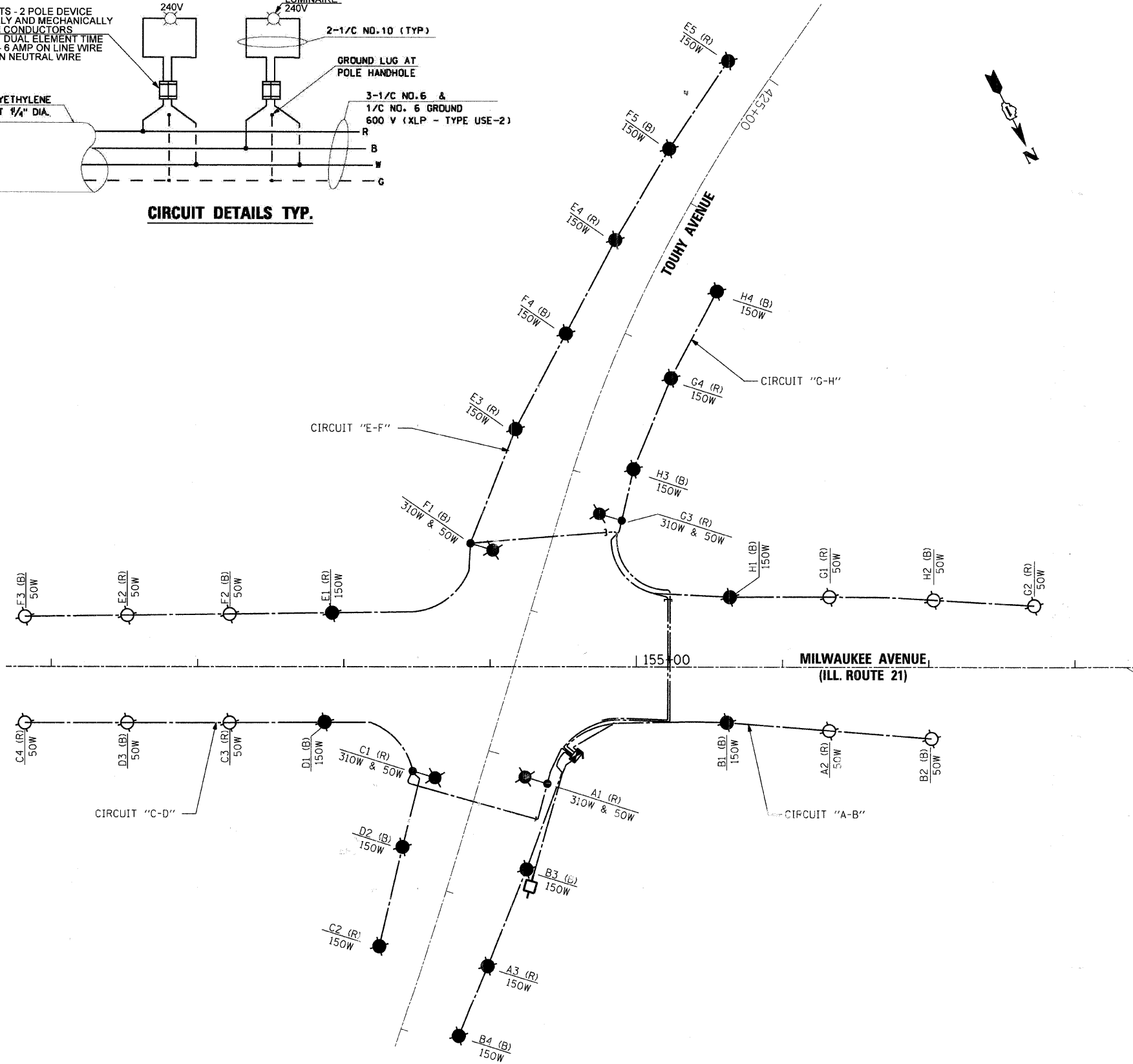


CIRCUIT DETAILS TYP.

CIRCUIT LOAD CONTROLLER 240/480 VOLT PHASE

CIRCUIT	AMPERE @ 240 V	WATTS	CIRCUIT	AMPERE @ 240 V	WATTS
A	3.2	560	B	3.35	500
C	3.2	560	D	2.35	350
E	4.35	650	F	4.2	710
G	3.55	610	H	3.35	500
SPARE			SPARE		
SPARE			SPARE		
TOTAL	14.3	2380	TOTAL	13.25	2060

AMPS @ 240V 1.5 FOR 310W LUMINAIRE
 AMPS @ 240V 1.0 FOR 150W LUMINAIRE
 AMPS @ 240V 0.35 FOR 50W LUMINAIRE



- 310W LUMINAIRE
- 150W LUMINAIRE
- 50W LUMINAIRE
- ⊞ LIGHTING CONTROLLER
200 AMP - 240/480 VOLT. 1 PHASE
- ⊞ FUSE. 6.0 AMPERE / SOLID SLUG
- 3 1/C #6 & 1/C #6 GND
600 V (XLP - TYPE USED-2)
- CONNECTION



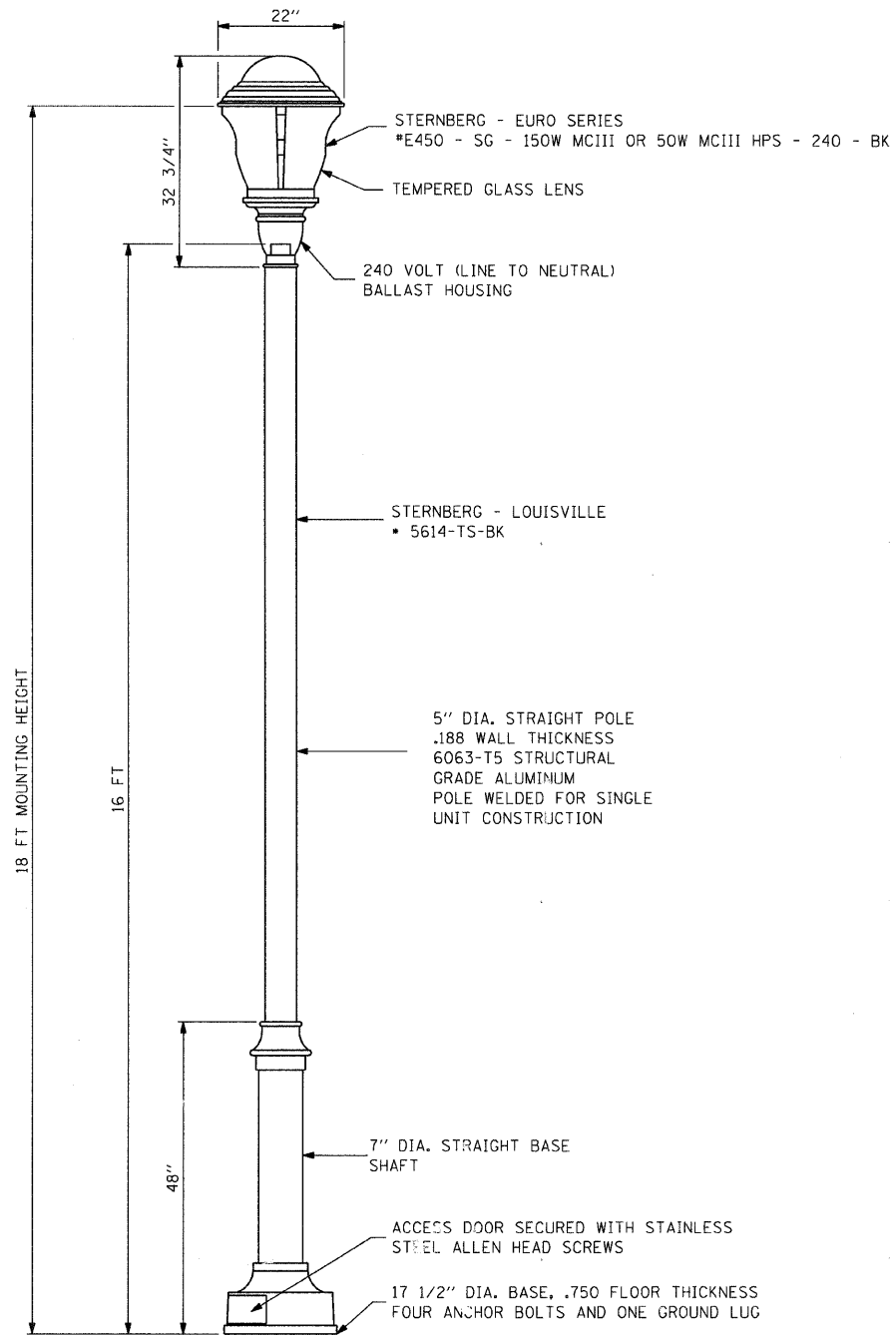
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VILLAGE OF NILES

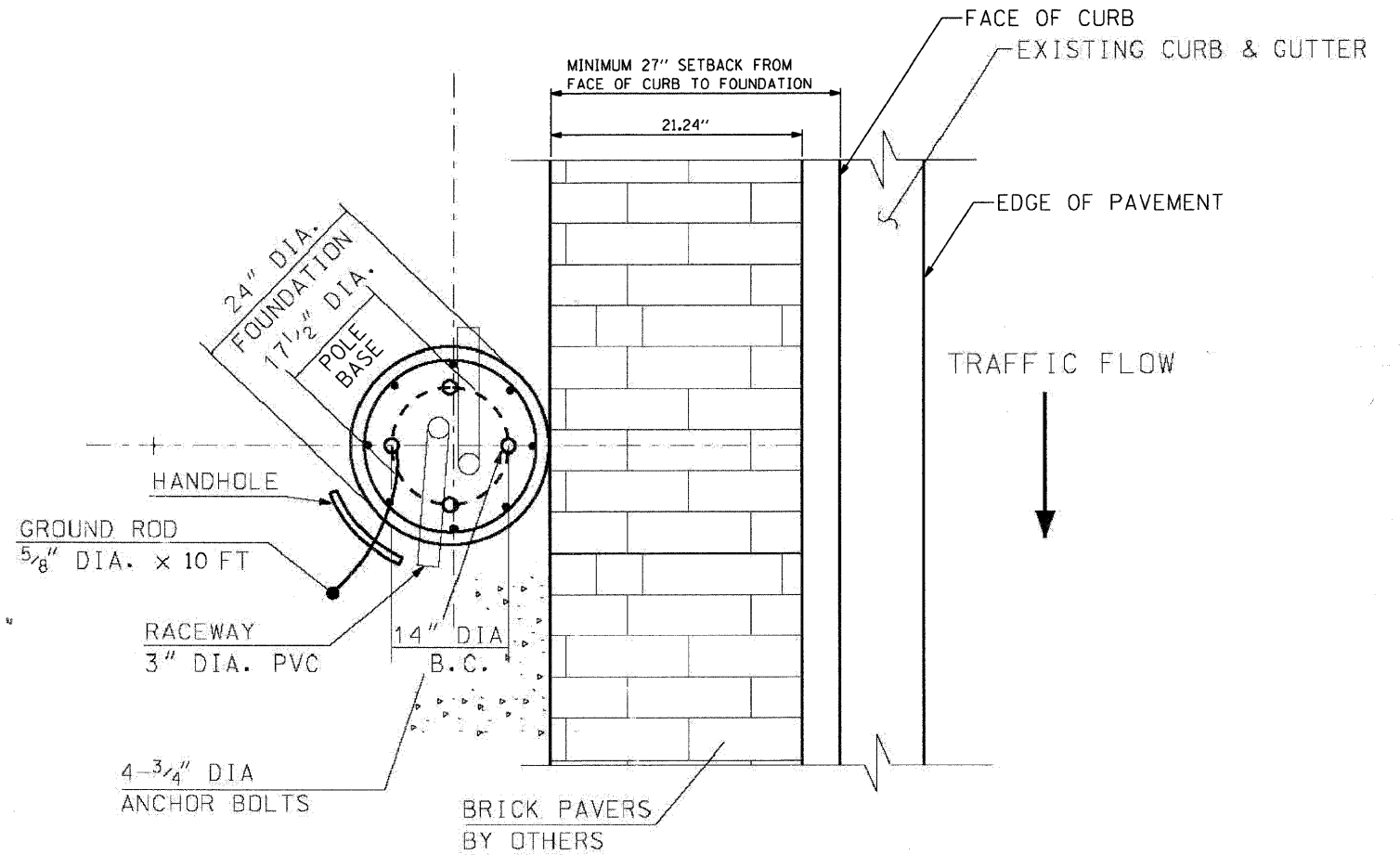
LIGHTING CONTROLLER AT S.W. CORNER OF OHIO STREET

SCALE: NTS SHEET NO. 5 OF 13 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 78
FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT M - 8003(723)		CONTRACT NO.



ORNAMENTAL LIGHTING UNIT DETAILS
ALUMINUM POST WITH CAST ALUMINUM BASE /
POST TOP MOUNTED LUMINAIRE



**ANCHOR BOLTS AND HANDHOLE POSITION
DETAILS**

NOT TO SCALE

NOTES:

1. THE LIGHT POST ASSEMBLY SHALL MEET AASHTO DESIGN CRITERIA.
2. THE BOLT CIRCLE ON THE BASE PLATE SHALL CONFORM WITH THE BOLT CIRCLE ON LIGHT POLE FOUNDATION.
3. THE LIGHT POST SHALL BE ERECTED AND LUMINAIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER 5/32 S RECOMMENDATION.
4. EACH LIGHT POLE SHALL BE GROUNDED IN STRICT CONFORMANCE WITH NEC.
5. THE LIGHT POST ASSEMBLY BASE, POST SHAFT AND LUMINAIRE SHALL BE PAINTED IN POWDER COAT BLACK POLYESTER FINISH.
6. THE POST/LUMINAIRE MANUFACTURER SHALL SUBMIT COLOR SAMPLE TO OWNER. THE COLOR SAMPLE MUST BE APPROVED BY THE OWNER.
7. THE LIGHT POST AND LUMINAIRE SHALL BE SET PLUMB ON FOUNDATION.
8. THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION AND LENGTH WITH ENGINEER.



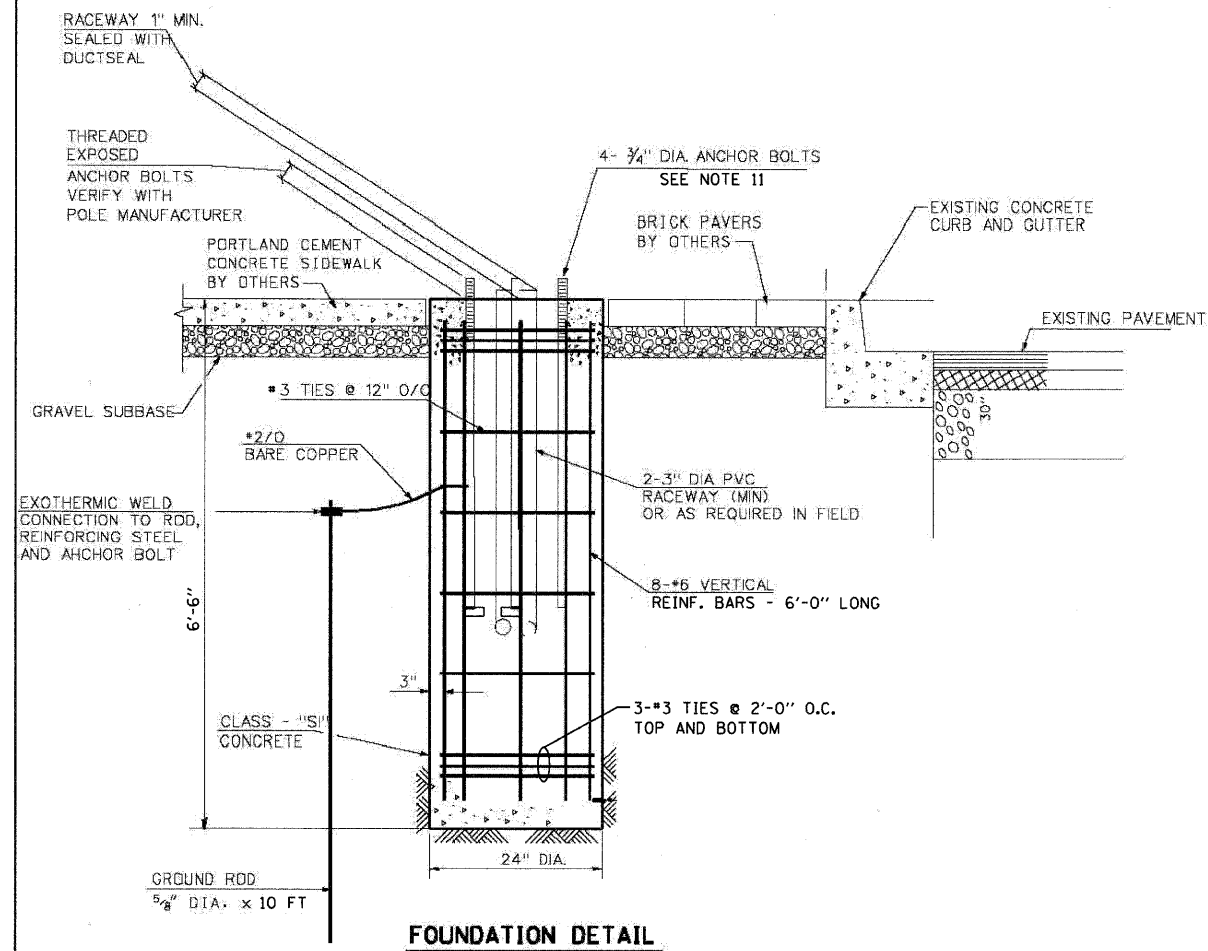
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	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

ORNAMENTAL LIGHTING UNIT

SCALE: NTS SHEET NO. 6 OF 13 SHEETS STA. TO STA.

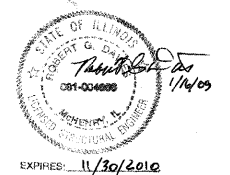
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	79
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M -8003(723)				



NOTE:
 FOUNDATION TOP ELEVATION SHALL CONFORM TO ELEVATION OF PROPOSED SIDEWALK/BRICK PAVER

FOUNDATION NOTES

1. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AND AUGER, 24" IN DIAMETER.
2. THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O.C.
3. THE ANCHOR SHALL BE A TACK WELDED PLATE TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
4. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
5. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 153.
6. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
7. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
8. ANCHOR BOLTS PROJECTION ABOVE THE TOP OF THE FOUNDATION, SHALL BE ACCORDING TO THE MANUFACTURER RECOMENDATIONS.
9. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
10. REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATION.
11. THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION AND LENGTH WITH ENGINEER. MINIMUM ACCEPTABLE EMBEDDMENT LENGTH FOR ANCHOR BOLTS CONFORMING TO NOTE 5 IS 36". ANCHOR ROD SHALL BE A MINIMUM OF 3/4" IN DIAMETER CONFORMING TO ASTM F 1554 (GR. 105).
12. FOUNDATION DEPTH SHOWN ASSUMES MEDIUM CLAY OR SAND. THE ENGINEER SHALL DETERMINE ACCEPTABILITY. IN THE EVENT SOFT MATERIAL OR FILL IS ENCOUNTERED, ENGINEER MAY REQUIRE INCREASED FOUNDATION DEPTH.



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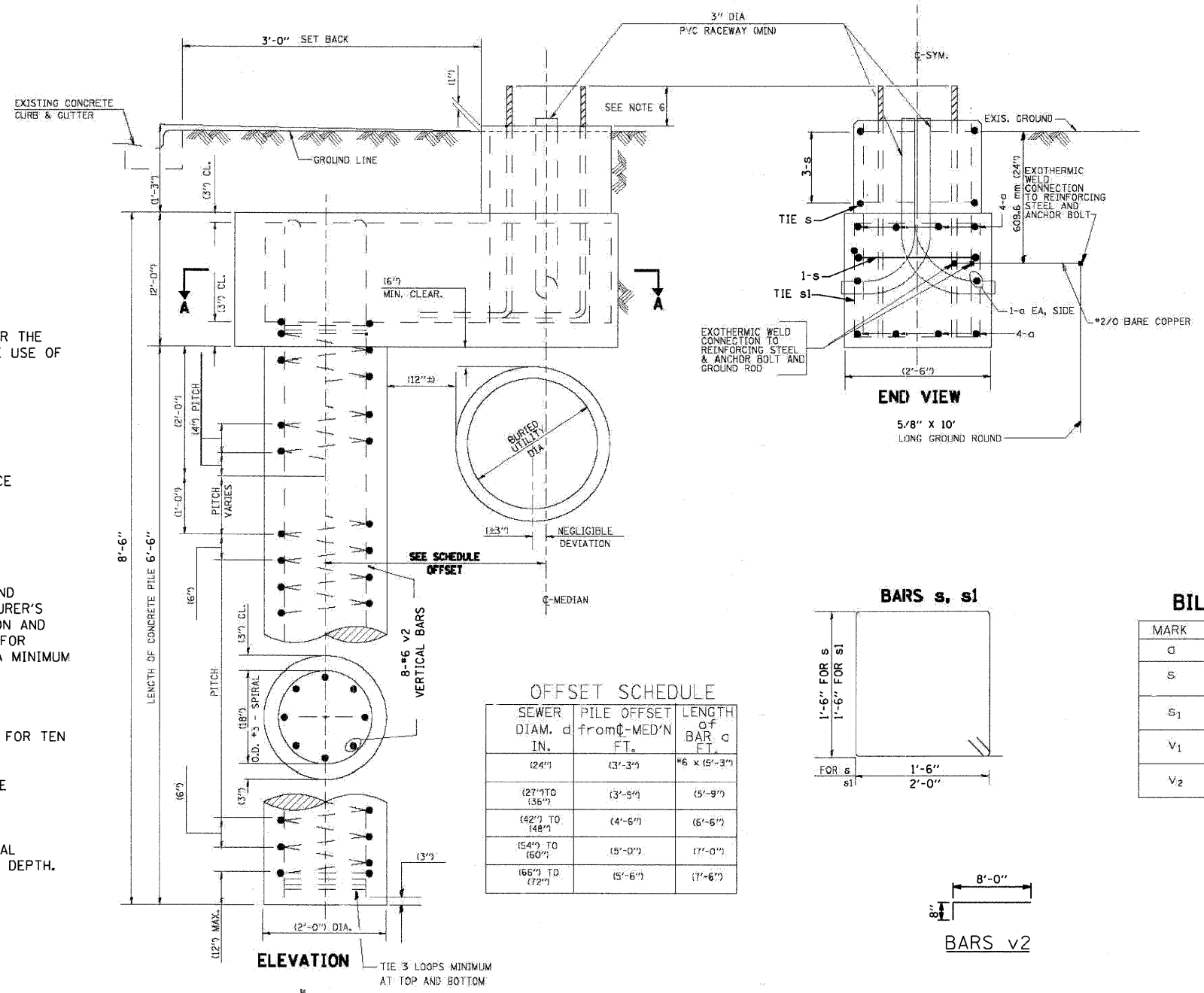
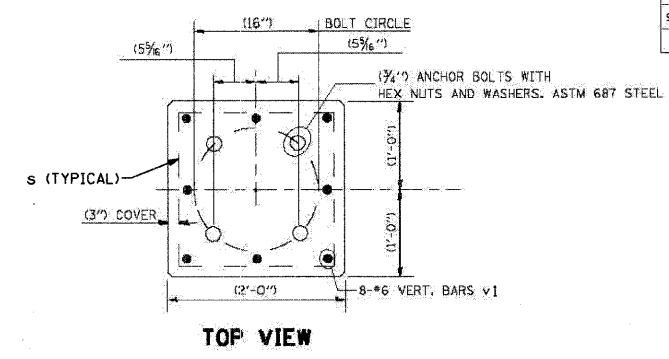
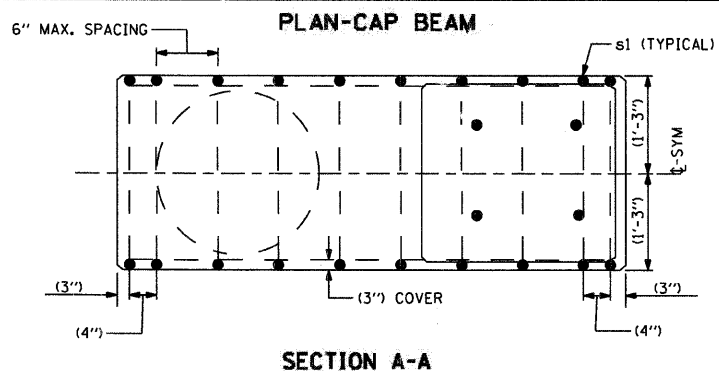
VILLAGE OF NILES

ORNAMENTAL LIGHTING POLE FOUNDATION

SCALE: NTS SHEET NO. 7 OF 13 SHEETS STA. TO STA.

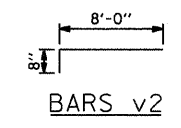
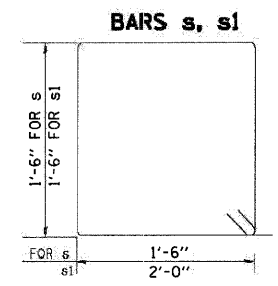
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	80
CONTRACT NO.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	M - 8003(723)		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
34	KANE	21	16
STA.	TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	



OFFSET SCHEDULE

SEWER DIAM. IN.	PILE OFFSET FROM G-MEDIAN FT.	LENGTH OF BAR FT.
(24")	(3'-3")	*6 x (5'-3")
(27") TO (36")	(3'-5")	(5'-9")
(42") TO (48")	(4'-6")	(6'-6")
(54") TO (60")	(5'-0")	(7'-0")
(66") TO (72")	(5'-6")	(7'-6")



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	4	4	(6'-6")	□
s ₁	17	4	(7'-6")	□
v ₁	8	6	(2'-9")	—
v ₂	8	6	(8'-8")	—

NOTES

1. THE CONTRACTOR SHALL IDENTIFY IN FIELD BURIED UTILITY CONFLICT FOR THE INSTALLATION OF CONCRETE FOUNDATION. THE ENGINEER SHALL DETERMINE USE OF OFFSET FOUNDATION DESIGN AND LOCATION FOR PILE INSTALLATION.
2. THE SHAFT FOR PILE SHALL BE MADE WITH AUGER, (24") IN DIAMETER.
3. THE ANCHOR SHALL BE TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
4. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
5. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANAIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
6. THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION AND LENGTH WITH WITH ENGINEER. MINIMUM ACCEPTABLE EMBEDMENT LENTH FOR ANCHOR BOLTS CONFORMING TO NOTE 5 IS 36". ANCHOR ROD SHALL BE A MINIMUM OF 3/4" IN DIAMETER CONFORMING TO ASTM F 1554 (GR. 105).
7. RACEWAYS SHALL PROJECT (1") ABOVE THE TOP OF THE FOUNDATION.
8. CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR TEN (10) DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED.
10. FOUNDATION DEPTH SHOWN ASSUMES MEDIUM CLAY OR SAND. THE ENGINEER SHALL DETERMINE ACCEPTABILITY. IN THE EVENT SOFT MATERIAL OR FILL IS ENCOUNTERED, ENGINEER MAY REQUIRE INCREASED FOUNDATION DEPTH.



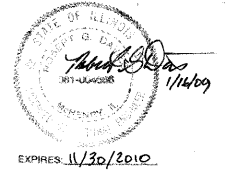
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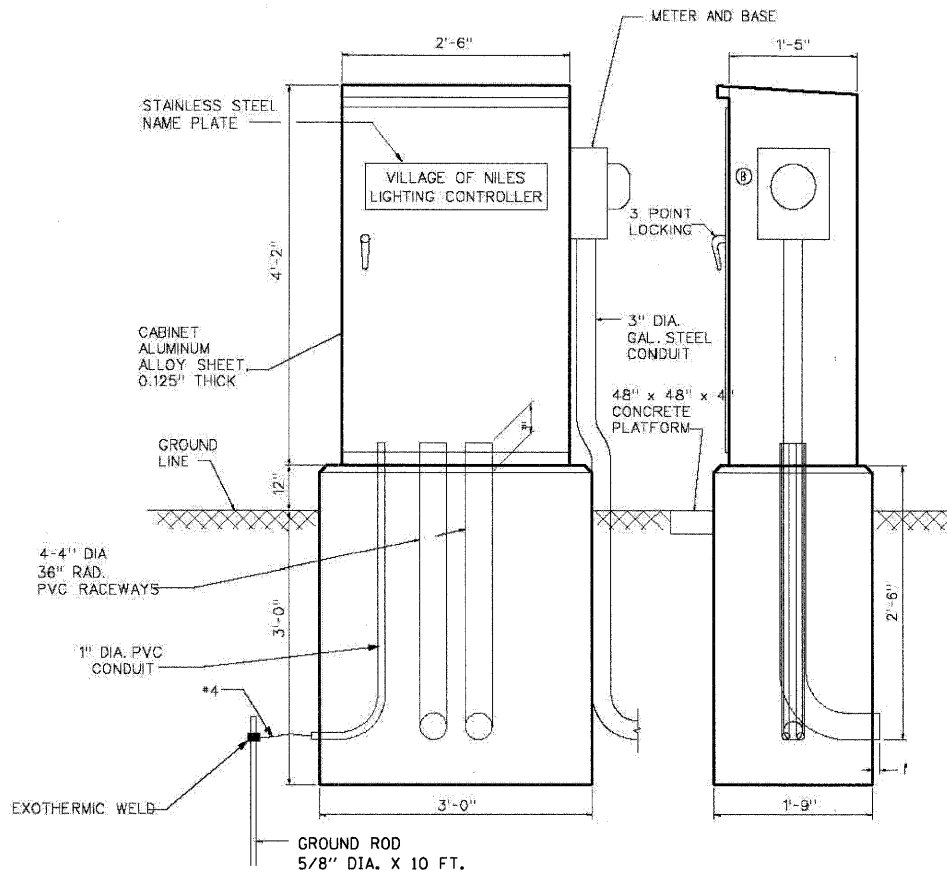
VILLAGE OF NILES

ORNAMENTAL LIGHTING OFFSET FOUNDATION

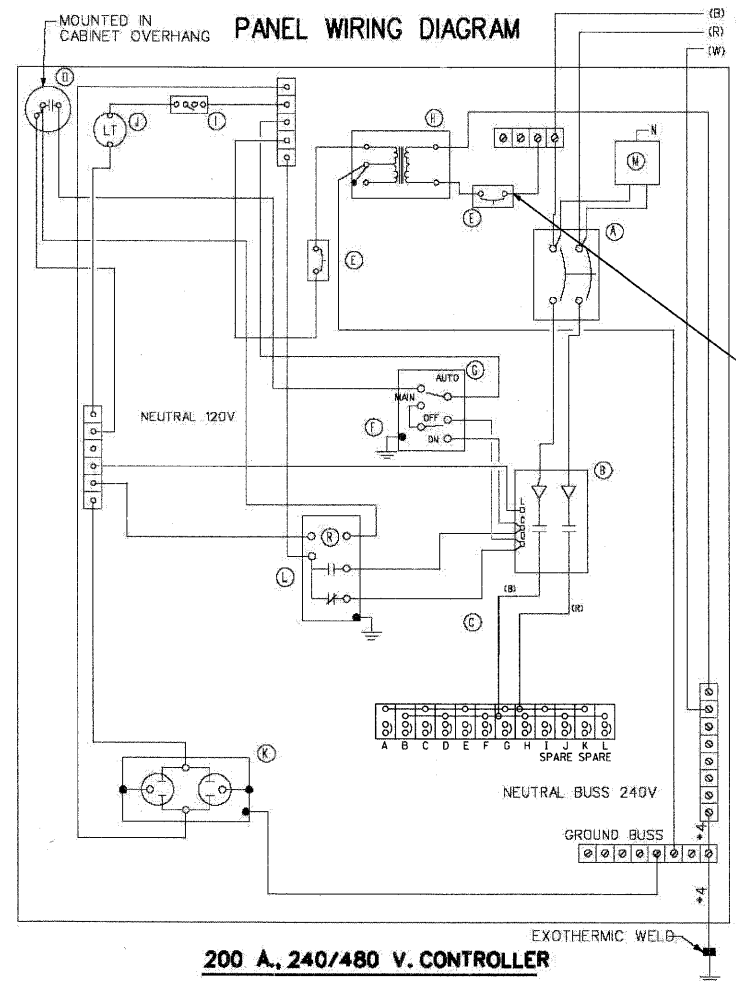
SCALE: NTS SHEET NO. 8 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	81
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT M-8003(723)				





LIGHTING CONTROLLER, SPECIAL CONTROL CABINET DETAILS



200 A., 240/480 V. CONTROLLER

NOTES

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 48"x48"x4" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.

CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "SIS" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.

R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.

ALL 120 VOLT SYSTEM CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES WITHIN THE CONTROL CABINET.

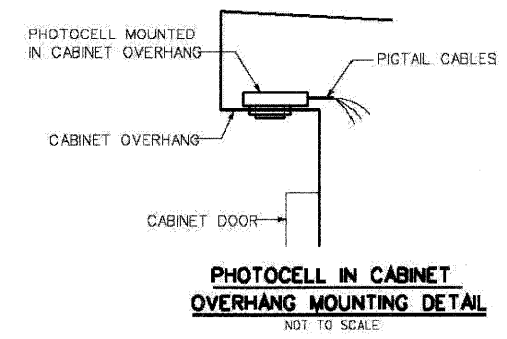
ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH THE APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".

TERMINAL LUGS ARE CONNECTED TOGETHER

DEVICE SCHEDULE		
ITEM	QUNT.	DESCRIPTION
(A)	1	200 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL-MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGABLE TRIP, BOLT ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 600V.
(B)	1	200 A, ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTACTOR, 2-POLE, 600 V, WITH 120 V. COIL
(C)	1	240/480 V, 1 PHASE PANEL BOARD WITH 200 A COPPER MAINS SINGLE POLE, 30 A, 277 V, BOLT ON BRANCH CIRCUIT BREAKERS INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	PHOTO-ELECTRIC CELL, 120V, MOUNT ON CABINET
(E)	2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 A, 277 V, BOLT ON TYPE, INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 A., 240 V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 A., 240 V. SPEC. GRADE
(H)	1	240/120V, STEP-DOWN CONTROL TRANSFORMER 1.5 KVA RATED
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN)
(J)	1	80 WATT LIGHT FIXTURE VAPORTIGHT WITH GLOBE, GUARD AND MOUNTING BOX
(K)	1	120 VOLT, 15A, GFCI RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHER PROOF BOX WITH FLAP-TYPE COVER
(L)	1	POWER RELAY WITH CONTACTS RATED FOR CONTACTOR INRUSH CURRENT - 120 V. COIL
(M)	1	SURGE ARRESTOR, 3 WIRE EDCO #4803 OR EQUAL.



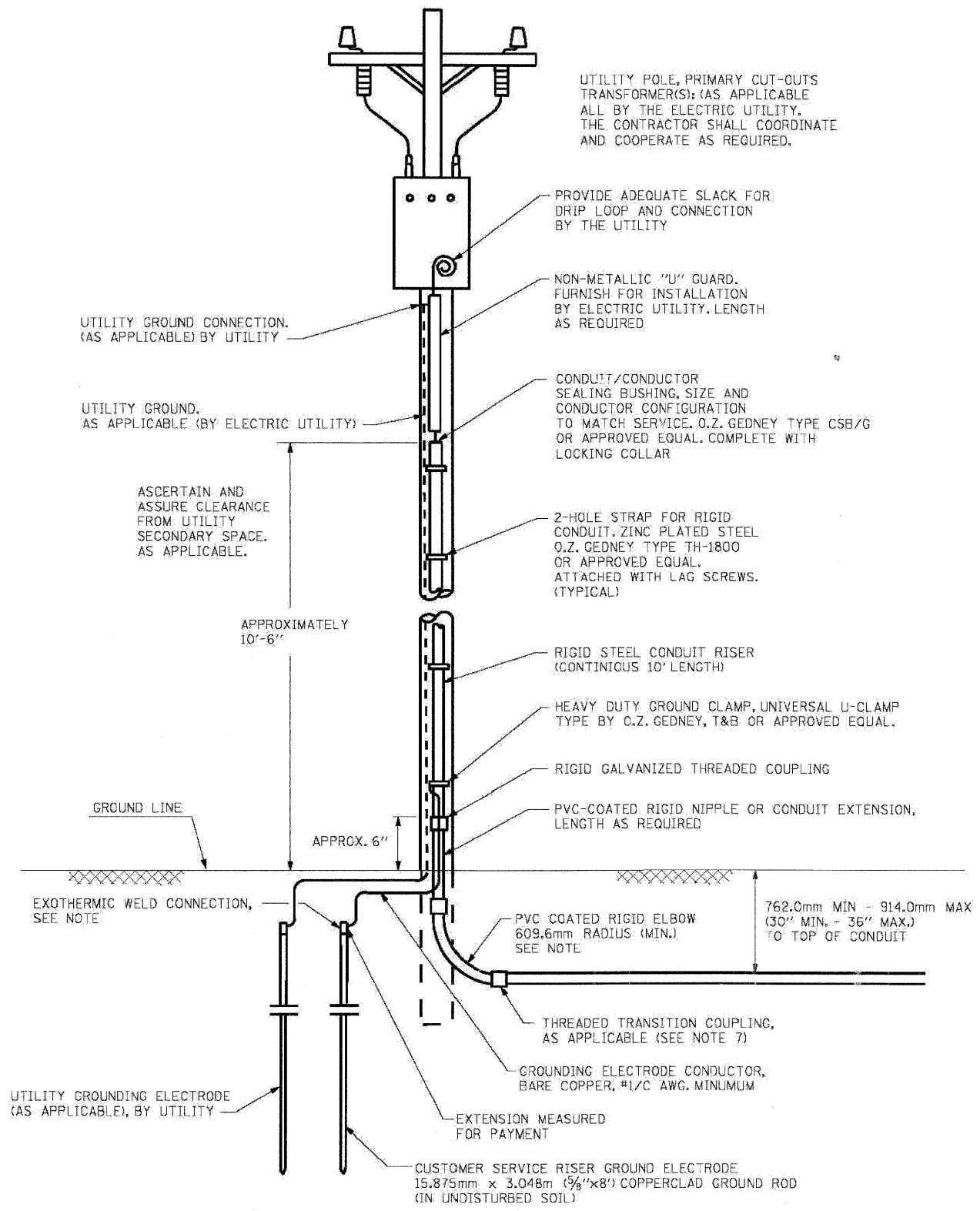
USER NAME = charlke	DESIGNED - BDL	REVISED -
PLOT SCALE = NTS	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

LIGHTING CONTROLLER, SPECIAL, PHOTOCCELL CONTROL, 200 AMPERE - 240/480 VOLT

SCALE: NTS SHEET NO. 9 OF 13 SHEETS STA. TO STA.

F.A.U. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 82
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				



UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S); (AS APPLICABLE) ALL BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AND COOPERATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

CONDUIT/CONDUCTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. O.Z. GEDNEY TYPE CSB/G OR APPROVED EQUAL. COMPLETE WITH LOCKING COLLAR

2-HOLE STRAP FOR RIGID CONDUIT. ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' LENGTH)

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING

PVC-COATED RIGID NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

PVC COATED RIGID ELBOW 609.6mm RADIUS (MIN.) SEE NOTE

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 7)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/C AWG. MINIMUM

EXTENSION MEASURED FOR PAYMENT

CUSTOMER SERVICE RISER GROUND ELECTRODE 15.875mm x 3.048m (5/8"x8") COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL)

UTILITY GROUND CONNECTION. (AS APPLICABLE) BY UTILITY

UTILITY GROUND. AS APPLICABLE (BY ELECTRIC UTILITY)

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE. AS APPLICABLE.

APPROXIMATELY 10'-6"

GROUND LINE

APPROX. 6"

EXOTHERMIC WELD CONNECTION, SEE NOTE

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

**PROPOSED SERVICE INSTALLATION
POLE TOP MOUNTED TRANSFORMER**

NOTES:

1. THE PAY ITEM - "ELECTRIC UTILITY SERVICE CONNECTION" SHALL CONSIST OF PAYMENT FOR WORK PERFORMED BY THE ELECTRIC UTILITY COMPANY IN PROVIDING OR MODIFYING ELECTRIC SERVICE AS INDICATED.
2. THE PAY ITEM- "ELECTRIC SERVICE INSTALLATION" SHALL CONSIST OF ALL MATERIAL AND LABOR REQUIRED TO EXTEND, CONNECT OR MODIFY THE ELECTRIC SERVICE AS INDICATED OR SPECIFIED, WHICH IS OVER AND ABOVE THE WORK PERFORMED BY UTILITY COMPANY. THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE, SHALL BE INCLUDED IN THIS PAY ITEM.
3. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE PROJECT DRAWINGS.
4. ELECTRIC SERVICE SPAN BETWEEN THE CONTROLLER AND UTILITY TRANSFORMER SHALL NOT EXCEED 250 FEET.
5. CONDUIT FOR SERVICE CABLE:
 - 5.1 CONDUIT DIAMETER AND CONDUIT FITTINGS SHALL BE SIZED WITH WIRE GAUGE AND MAXIMUM NUMBER OF CONDUCTORS PERMITTED BY NEC.
 - 5.2 CONDUIT FOR SERVICE CABLE SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
 - 5.3 PVC COATED GALVANIZED STEEL CONDUIT AND CONDUIT FITTINGS OF THE SAME TYPE SHALL BE CAREFULLY INSTALLED WITH MANUFACTURER'S RECOMMENDED TOOLS AND PROCEDURES. DAMAGE TO CONDUIT SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
 - 5.4 THE COUPLING (CONDUIT FITTING) SHALL BE A METALLIC TO NON-METALLIC ADAPTER BETWEEN STEEL CONDUIT AND PVC CONDUIT.
 - 5.5 CONCRETE COVER OVER THE ENCASED RACEWAY RUN SHALL BE A MINIMUM 3 INCH ALL AROUND.
6. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS OF THE UTILITY SERVICE WITHOUT EVERY ACCESSORY AND ATTACHMENT. THE CONTRACTOR IS OBLIGED TO FURNISH ALL MATERIAL AND WORK NOT PROVIDED BY THE UTILITY FOR COMPLETING ELECTRIC SERVICE INSTALLATION.
7. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER AND UTILITY COMPANY BEFORE BACKFILL AND/OR ENCLOSING ELECTRIC SERVICE INSTALLATION.



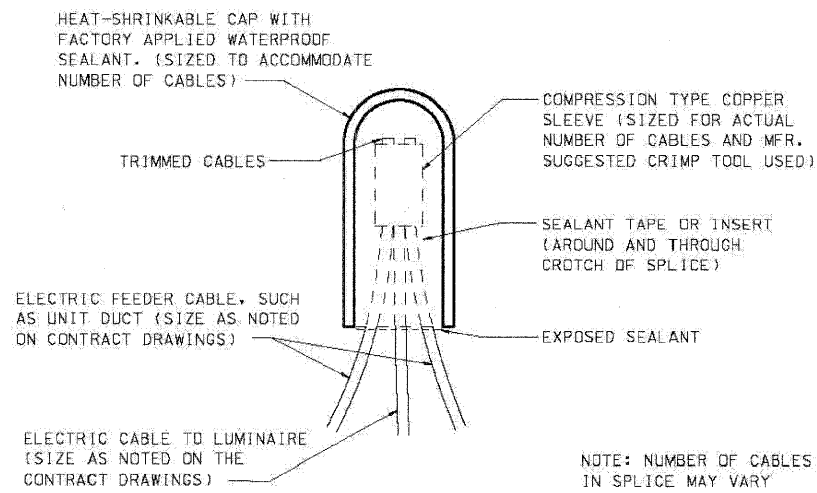
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PLOT DATE = 1/16/2009	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

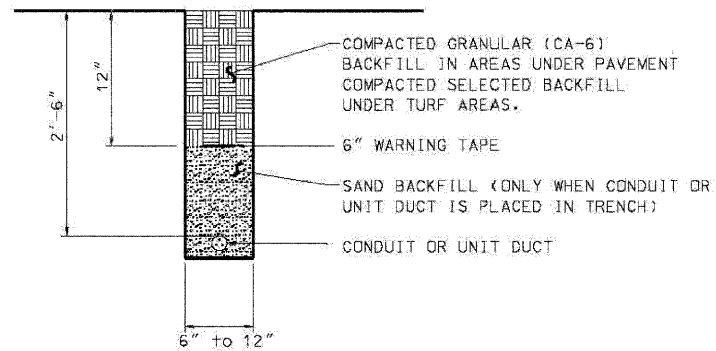
ELECTRICAL SERVICE INSTALLATION ABOVE GROUND

SCALE: NTS SHEET NO. 10 OF 13 SHEETS STA. TO STA.

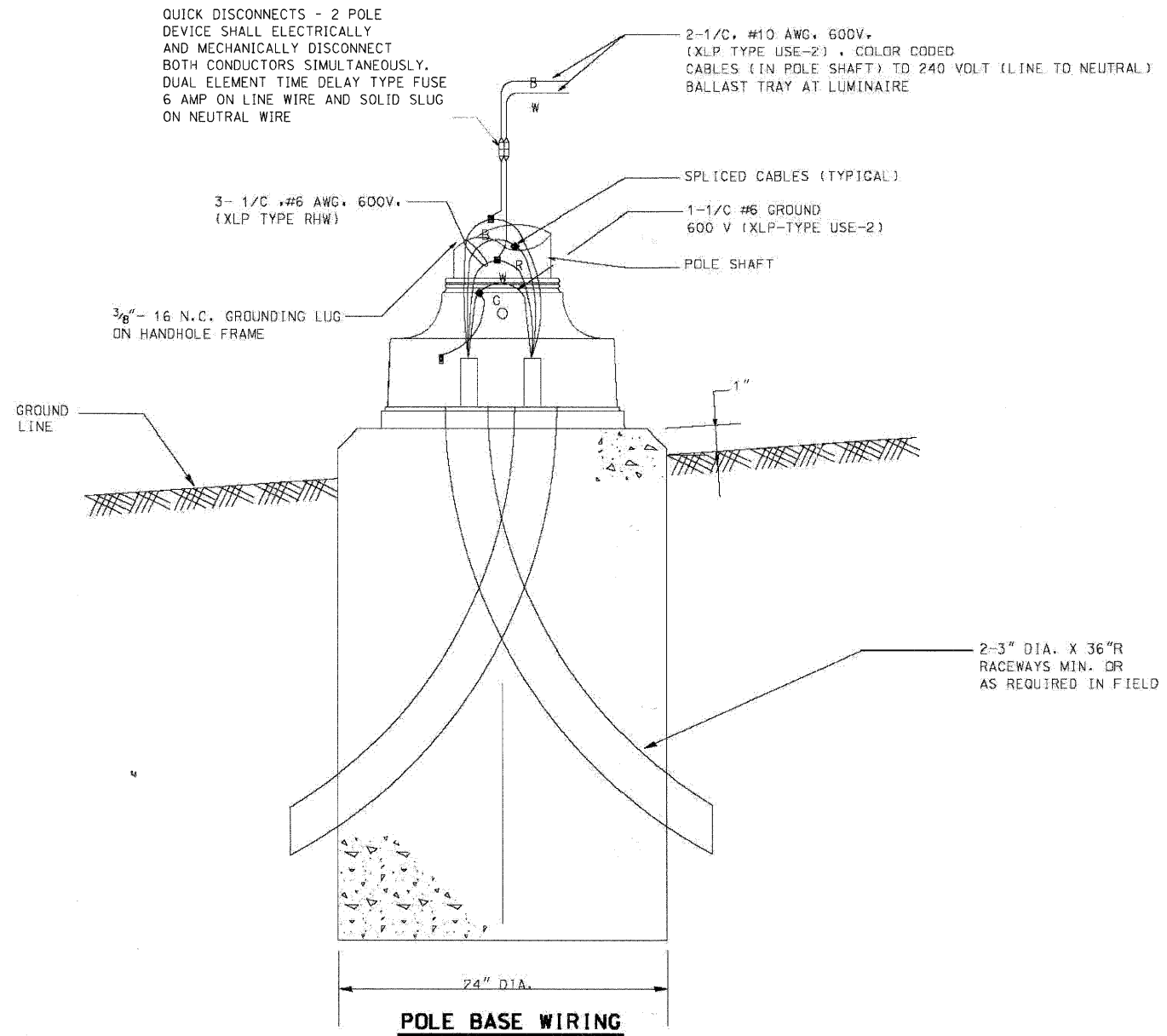
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	83
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M -8003(723)				



SPLICING ELECTRIC CABLE



TRENCH AND BACKFILL



USER NAME = char-cke	DESIGNED - BDL	REVISED -
PLOT SCALE = NTS	DRAWN - CMH	REVISED -
PLOT DATE = 1/16/2009	CHECKED - APS	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

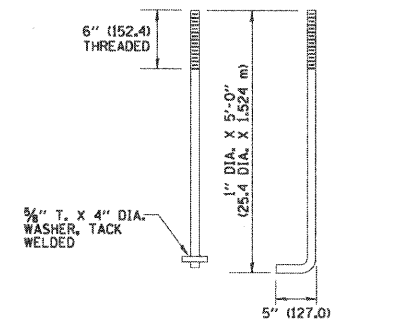
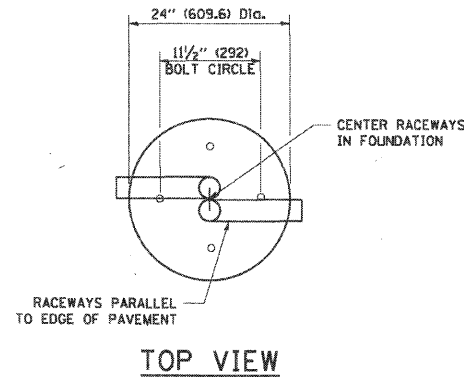
ELECTRICAL DETAILS

SCALE: NTS SHEET NO. 11 OF 13 SHEETS STA. TO STA.

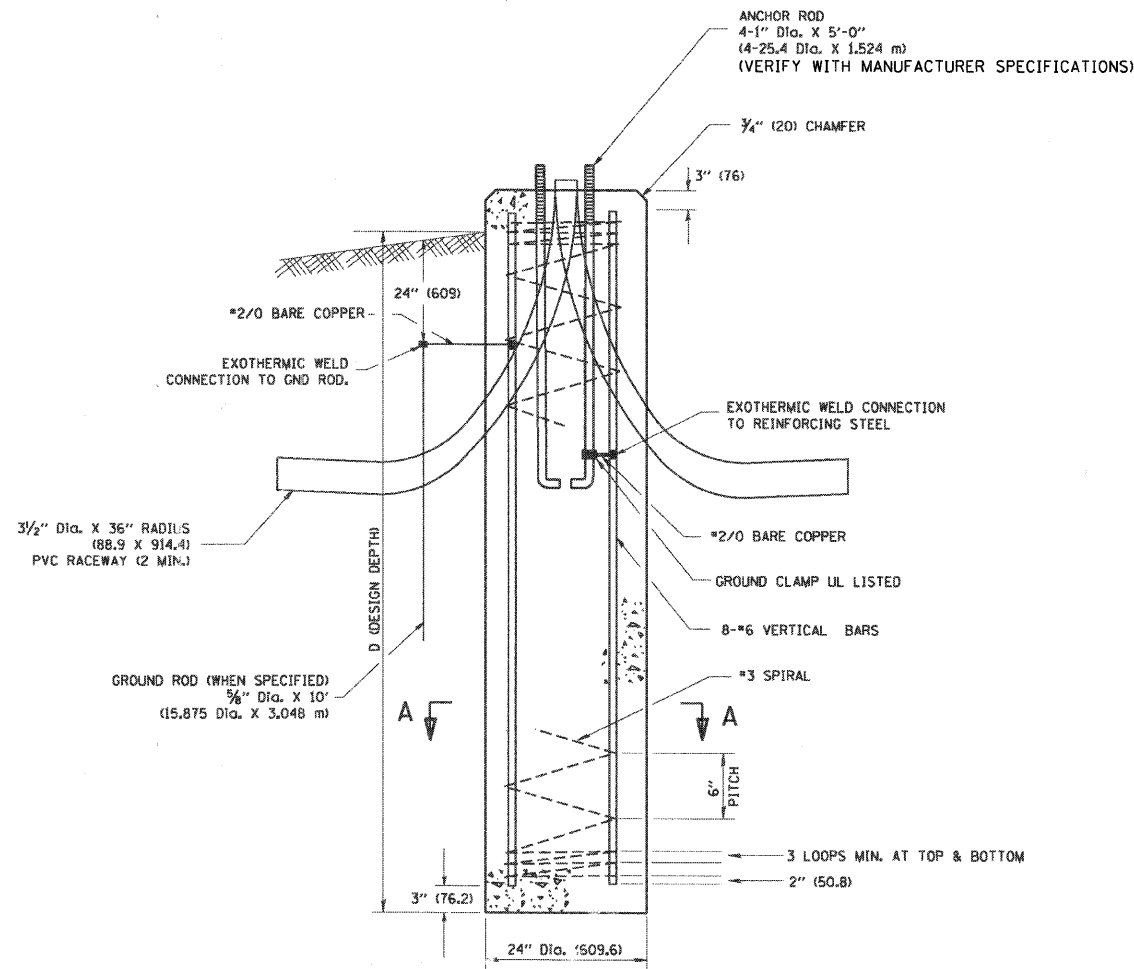
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	84
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. M-8003(723)	

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

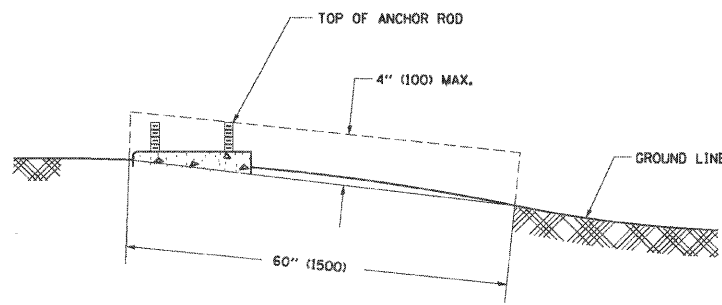
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



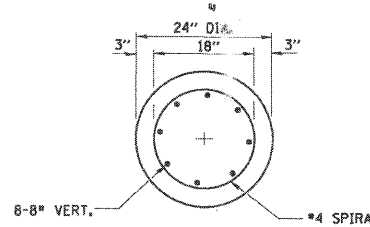
ANCHOR BOLT DETAIL



FOUNDATION DETAIL



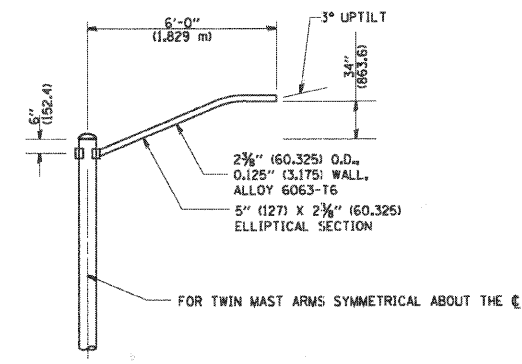
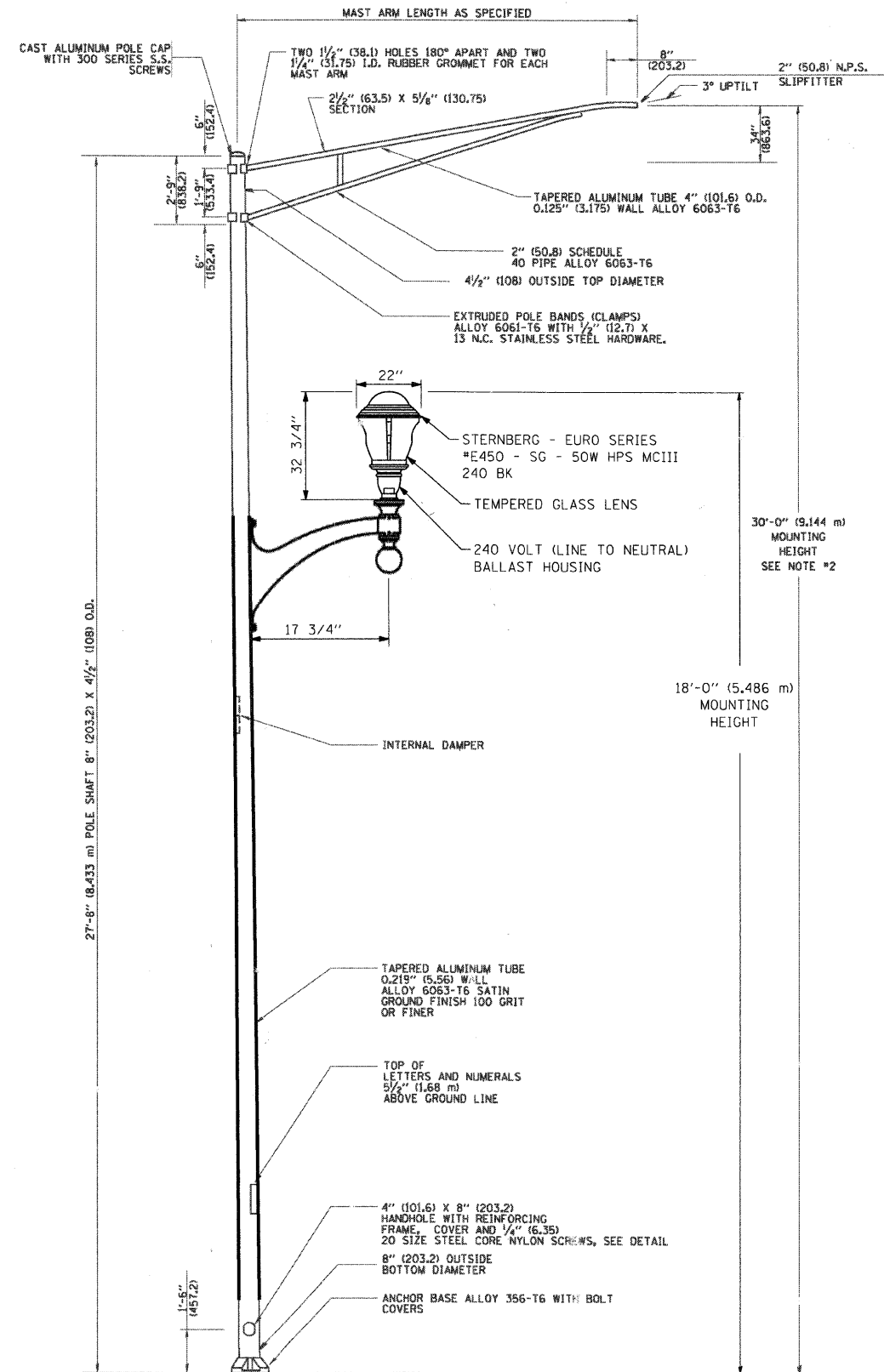
FOUNDATION EXTENSION DETAIL



SECTION A-A

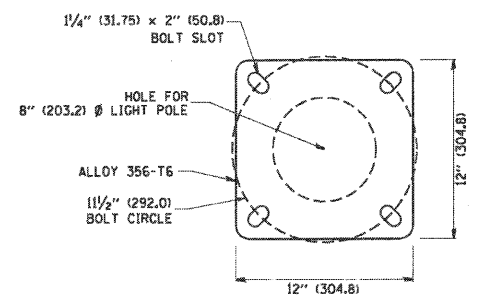
NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SJ. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

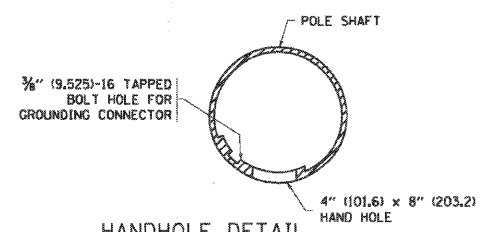


6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.
 8. THE 50W HPS LUMINAIRE SHALL BE ORIENTED PERPENDICULAR TO THE SIDEWALK (SAME AS MAST ARM ABOVE).



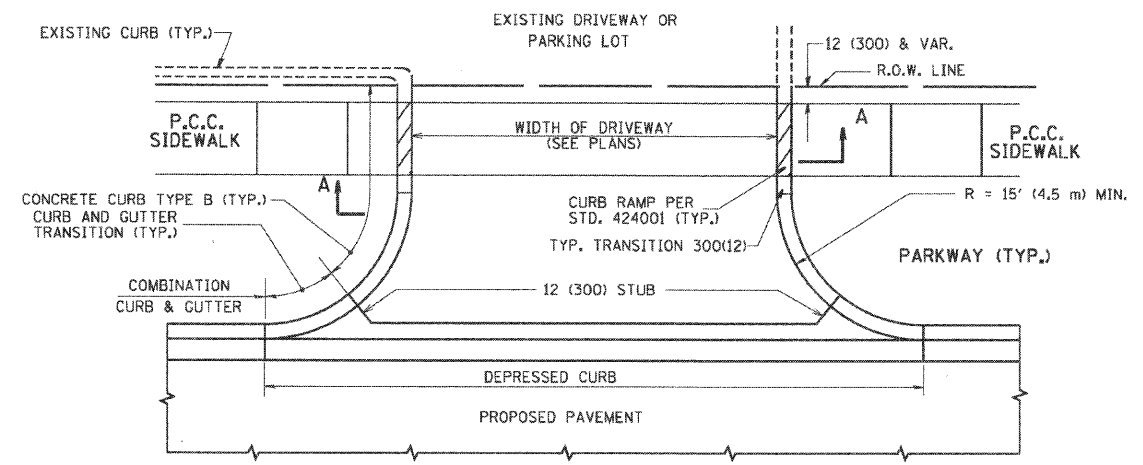
LIGHT POLE BASE PLATE DETAIL
1 1/2" (38.1 mm) BOLT CIRCLE



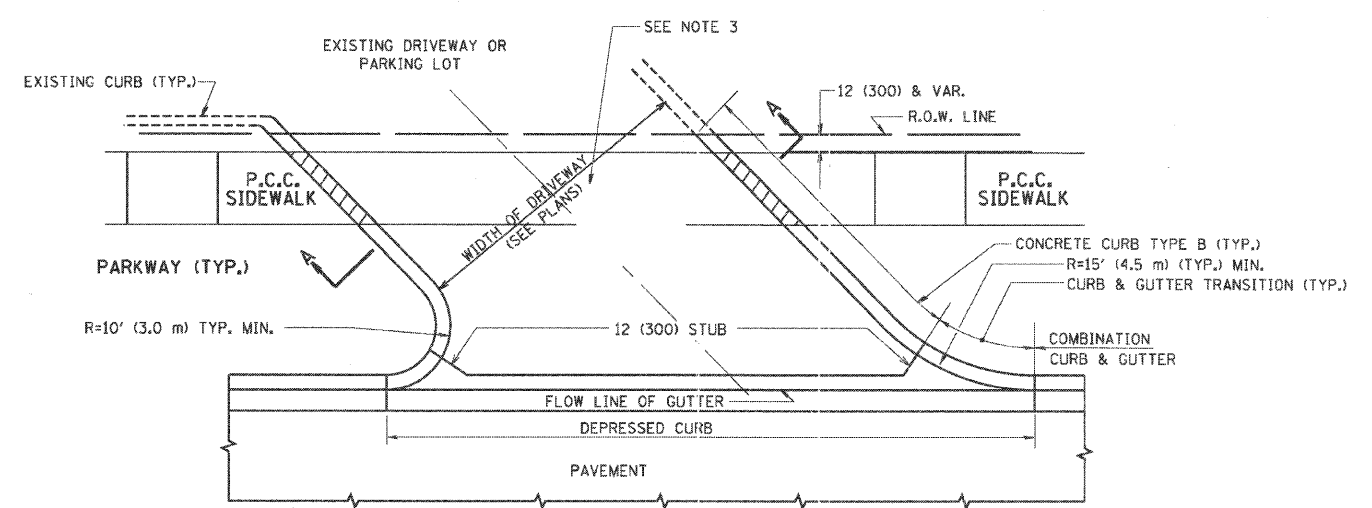
HANDHOLE DETAIL
(N.T.S.)

NOTE:
MINIMUM 10' POLE SETBACK FROM FACE OF CURB

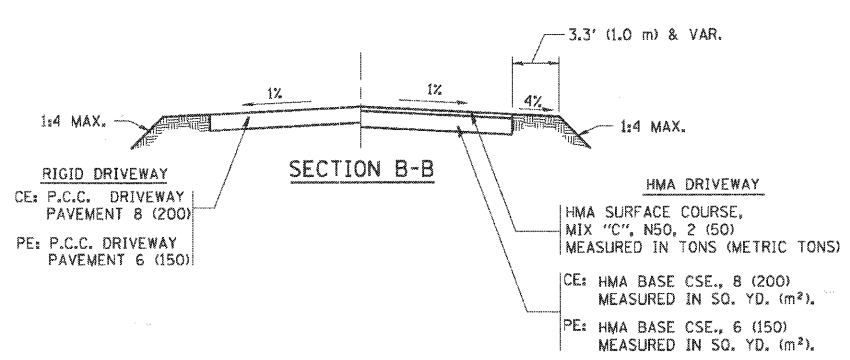
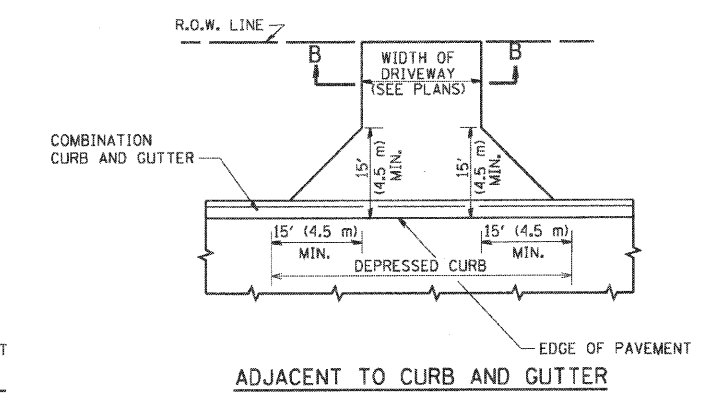
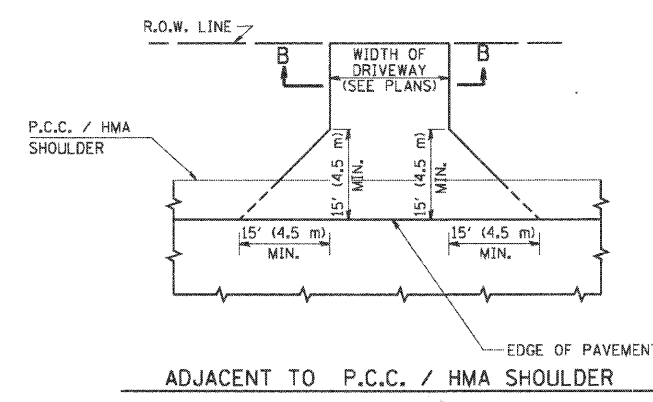
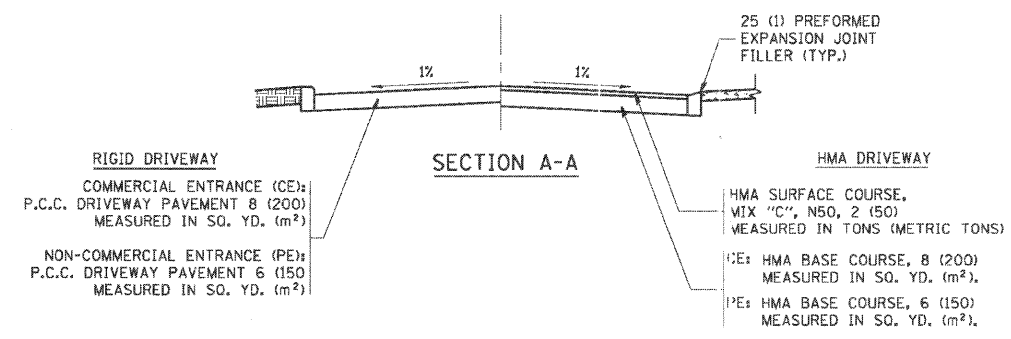
<p>SEC Group, Inc. Engineering Surveying Planning Landscape Architecture McHenry • Yorkville • New Lenox • Chicago www.secgroupinc.com</p>	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-02-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 30'-0" (9,144 m) MOUNTING HEIGHT (MODIFIED)		F.A. RTE. 3513	SECTION 08-00107-01-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 86
	PLOT SCALE = 5/8" = 1' IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BE-403 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M -8003(723)			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -								
		DATE -	REVISED -								



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 'HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS'. FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

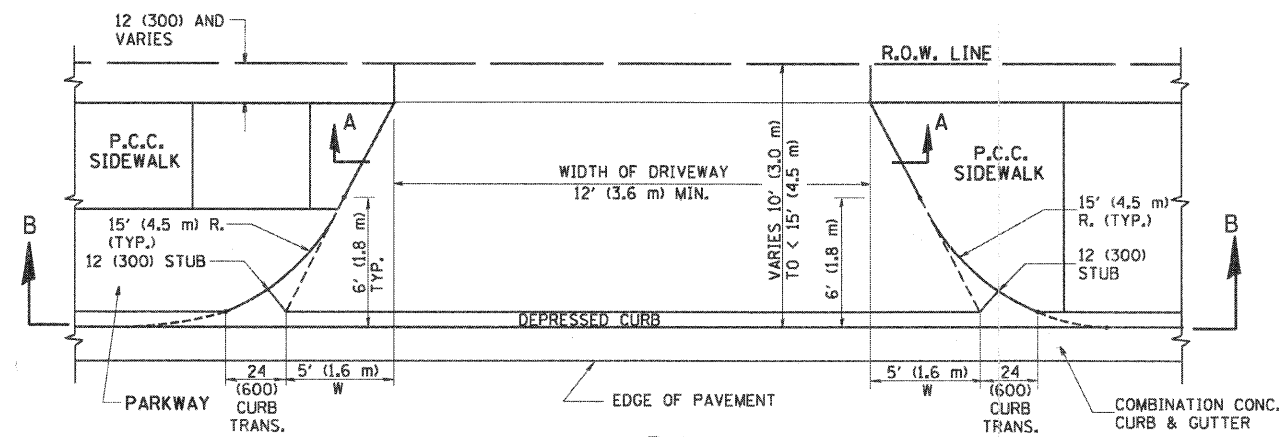
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

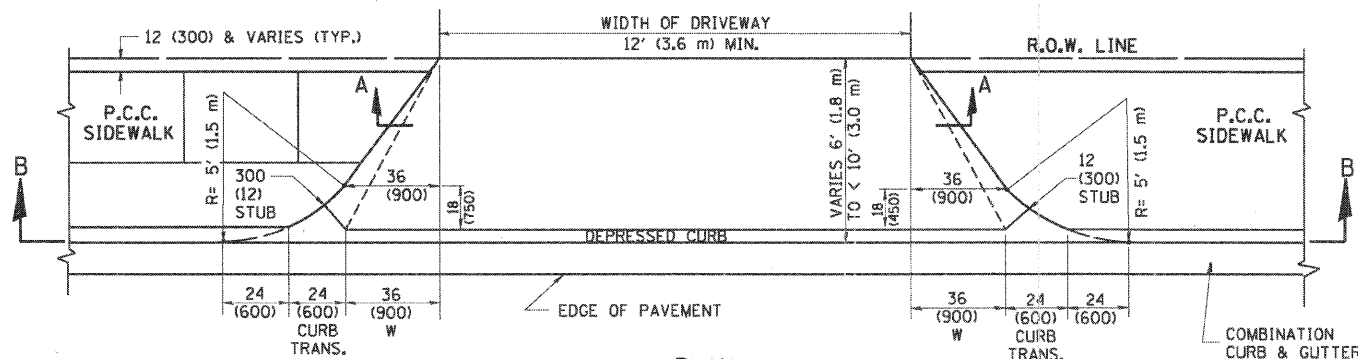
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

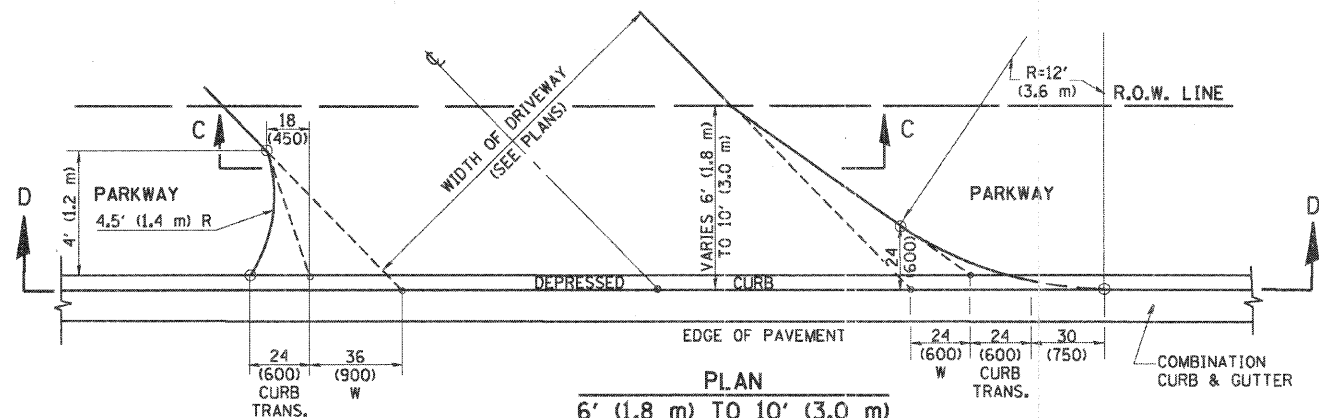
FILE NAME = K:\diststd22x34\bd01.dgn	USER NAME = jayna	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	F.A. RTE. = 3513	SECTION = 08-00107-00-PV	COUNTY = COOK	TOTAL SHEETS = 169	SHEET NO. = 87	
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISOR - P. LAFUER 04-15-03	REVISED - R. BORO 01-01-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. BD0156-07		
PLOT DATE = 6/11/2008	DATE = 11-04-95	REVISED - R. BORO 06-11-08							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M -8003(723)		



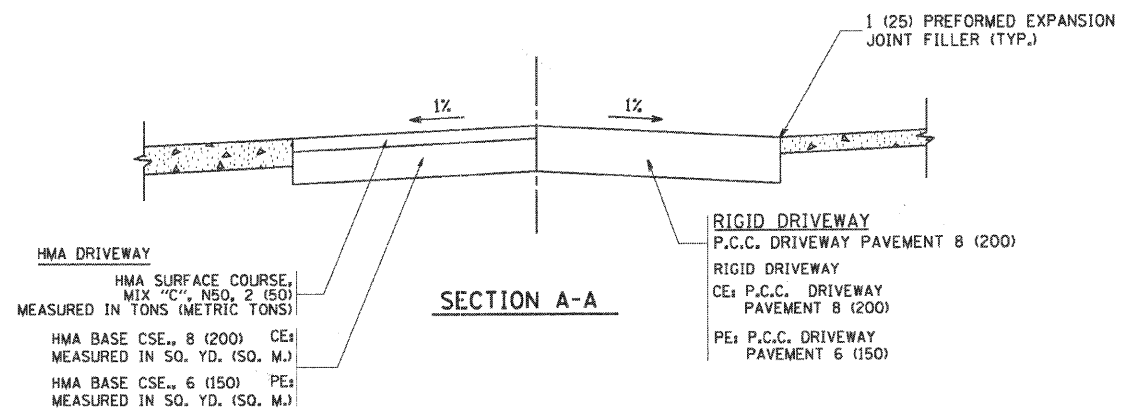
PLAN
10' (3.0 m) TO < 15' (4.5 m)



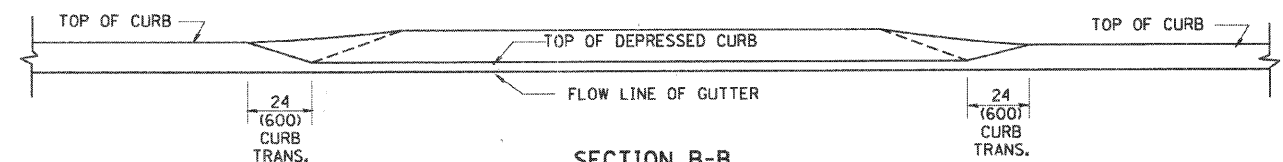
PLAN
6' (1.8 m) TO < 10' (3.0 m)



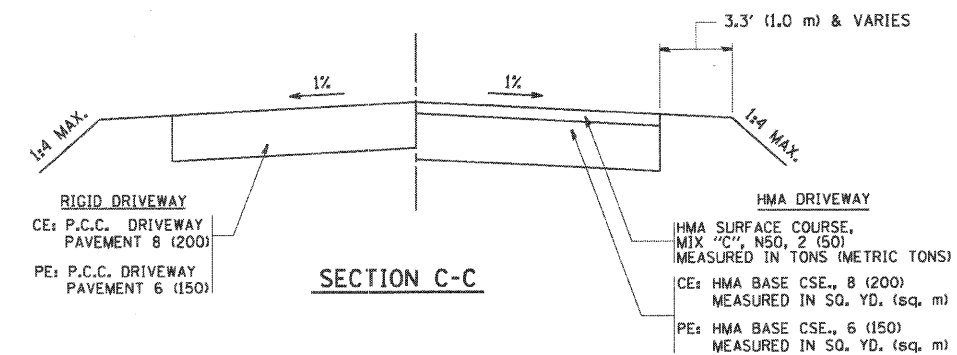
PLAN
6' (1.8 m) TO 10' (3.0 m)



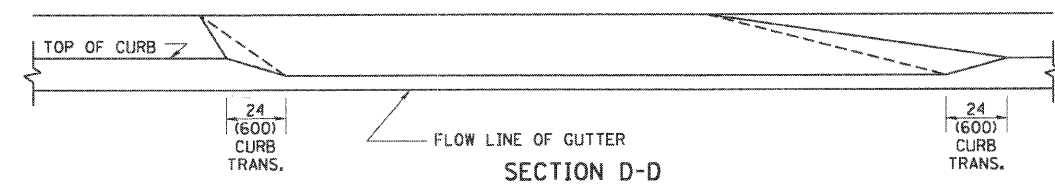
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

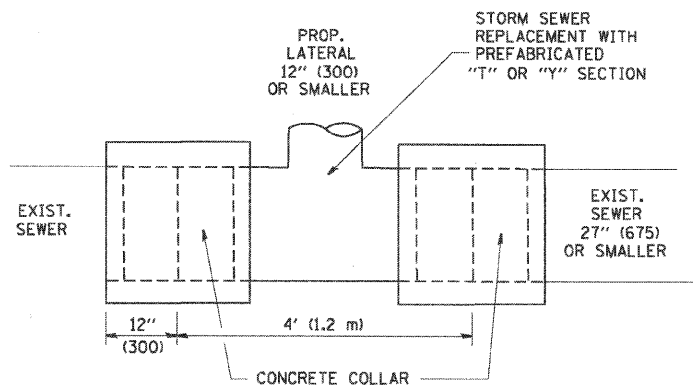
"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

FILE NAME = W:\distof\22x34\bd02.dgn	USER NAME = gagliobt	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97
		DRAWN -	REVISED - M. GOMEZ 04-06-01
		CHECKED -	REVISED - P. LaFLEUR 04-15-03
		DATE - 11-06-95	REVISED - R. BORO 01-01-07

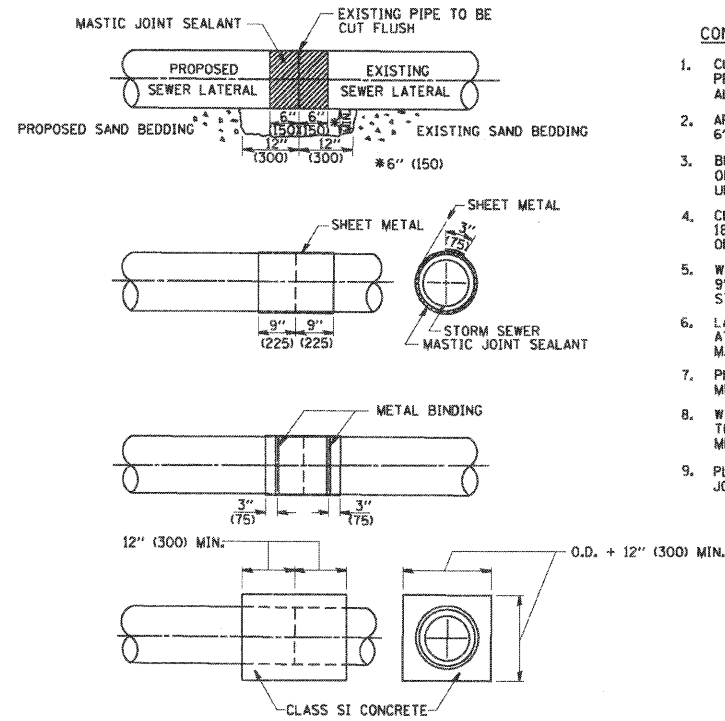
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)		3513	08-00107-00-PV	COOK	169	88
SCALE: NONE		BD400-02 (BD-02)		CONTRACT NO. 030303		
SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(723)		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

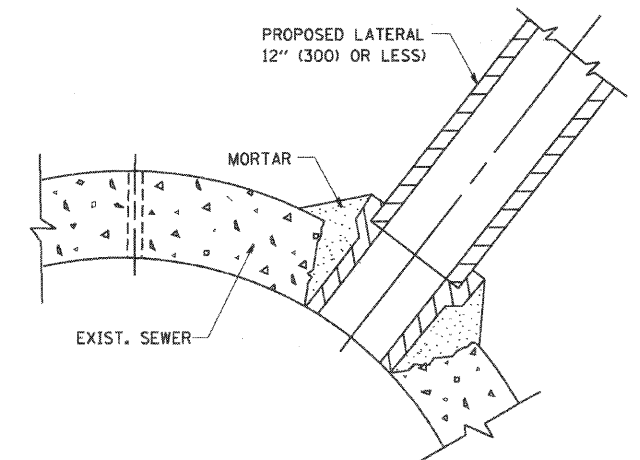


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 L1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

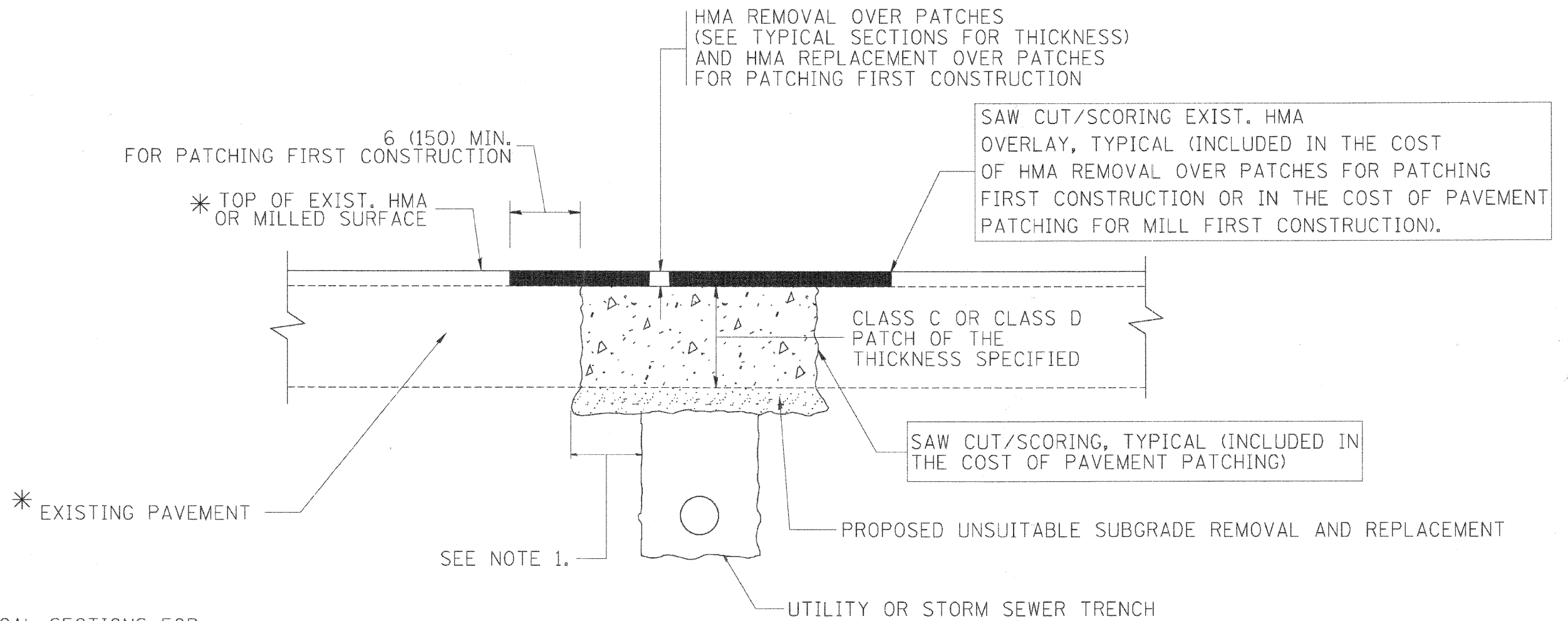
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = gaglianob	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			F.A. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 89
	PLOT SCALE = 50,000' / 1" IN.	CHECKED -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. BD500-01 (BD-7)		
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 10-25-94		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(723)							
			REVISED - R. SHAH 06-12-96									



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\disttd22x34\bd22.dgn	USER NAME = beurd1	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 91
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M -8003(723)		CONTRACT NO. BD400-04	
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07					BD400-04 (BD-22)			
		DATE - 10-25-94	REVISED - K. ENG 10-27-08								



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

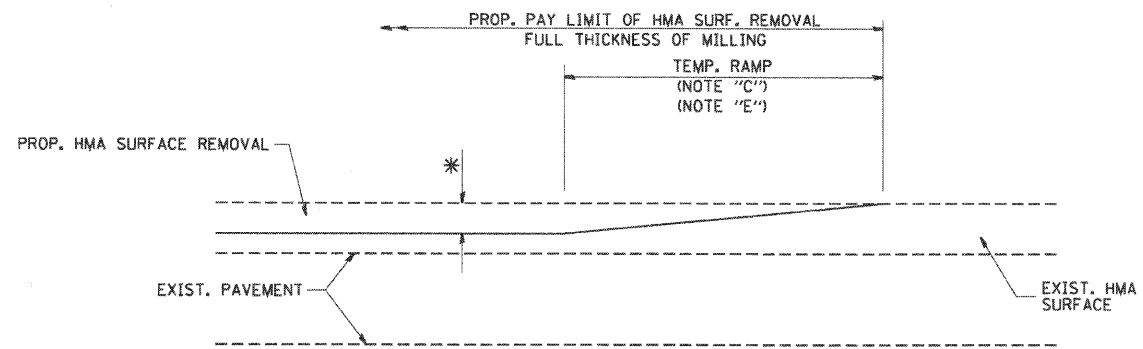
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		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

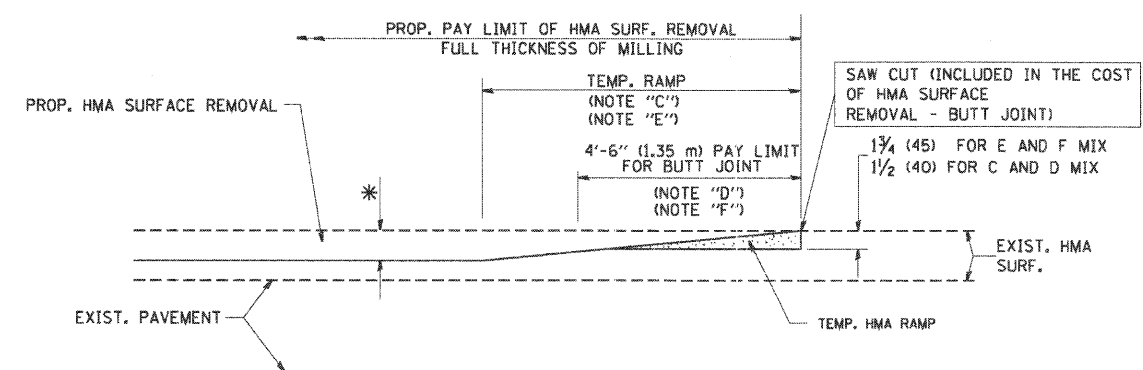
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F.A. RTE. 3513	SECTION 08-00107-00:PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 92
TC-26		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8008(723)				



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

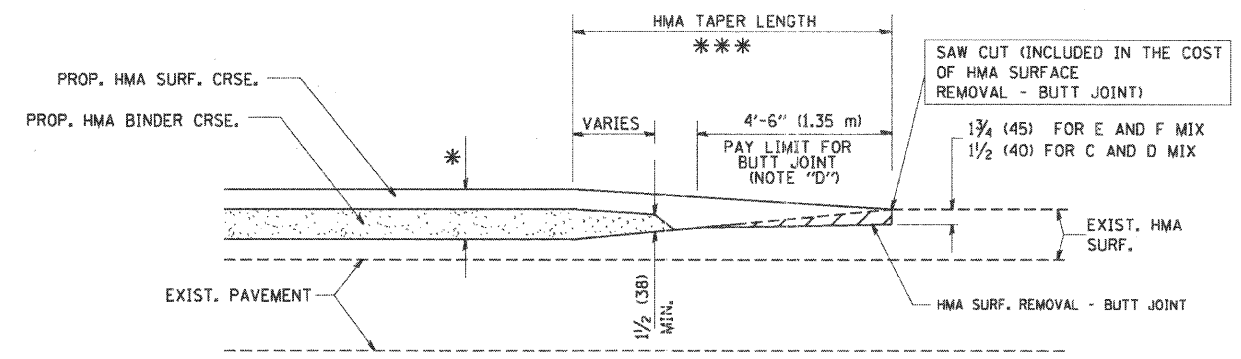
OPTION 1



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

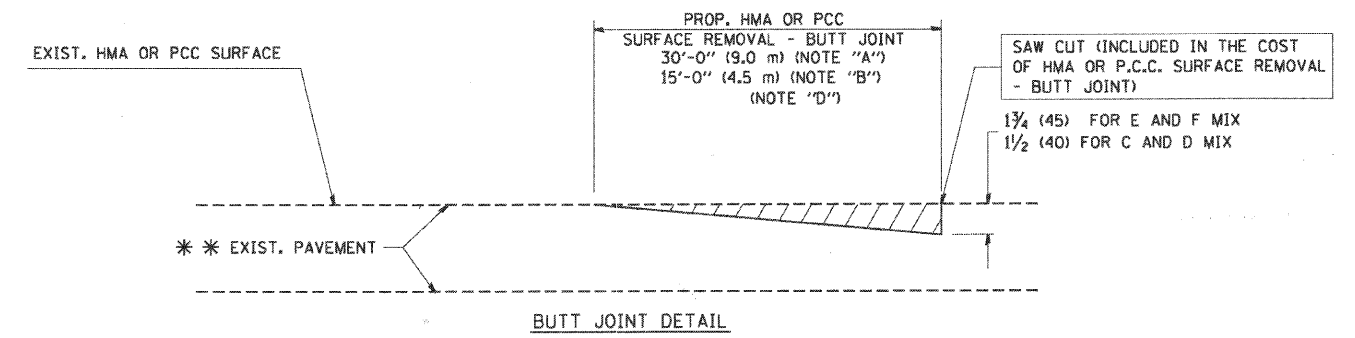
OPTION 2

TYPICAL TEMPORARY RAMP

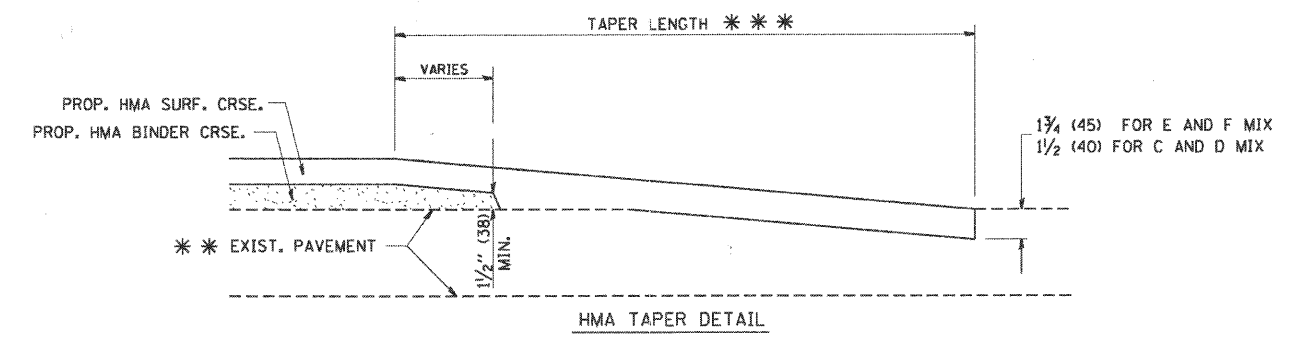


BUTT JOINT AND
HMA TAPER

**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

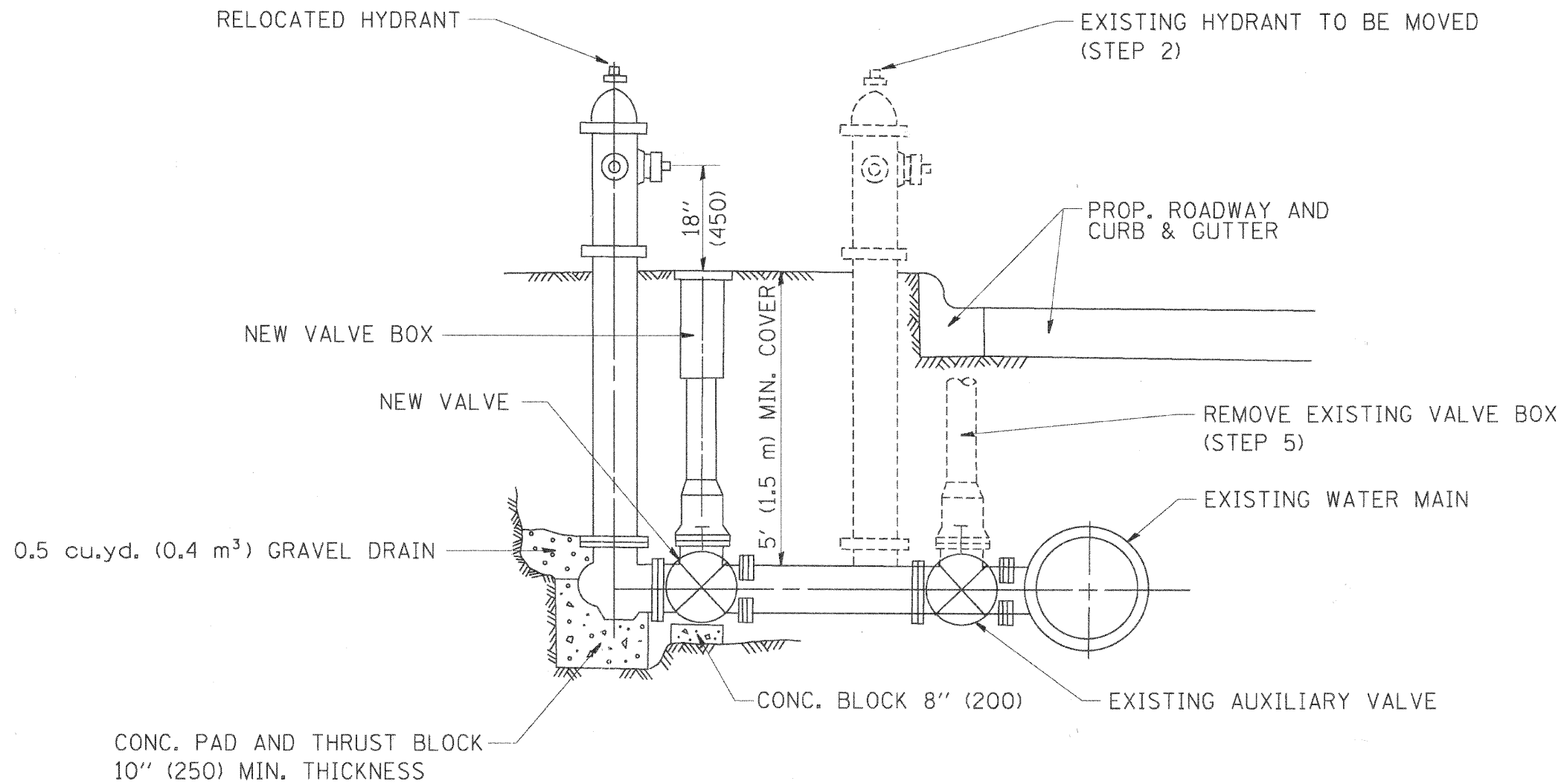
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 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.

FILE NAME = W:\cistatd\22\34\bd32.dgn	USER NAME = gaglienobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS			F.A. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 93
PLOT SCALE = 50.0000' / IN.	CHECKED -	DATE - 06-13-90	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD400-05 BD32 CONTRACT NO. 12345			
PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01	REVISED - R. BORO 01-01-07		FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT M-800317237							



SEQUENCE OF CONSTRUCTION:

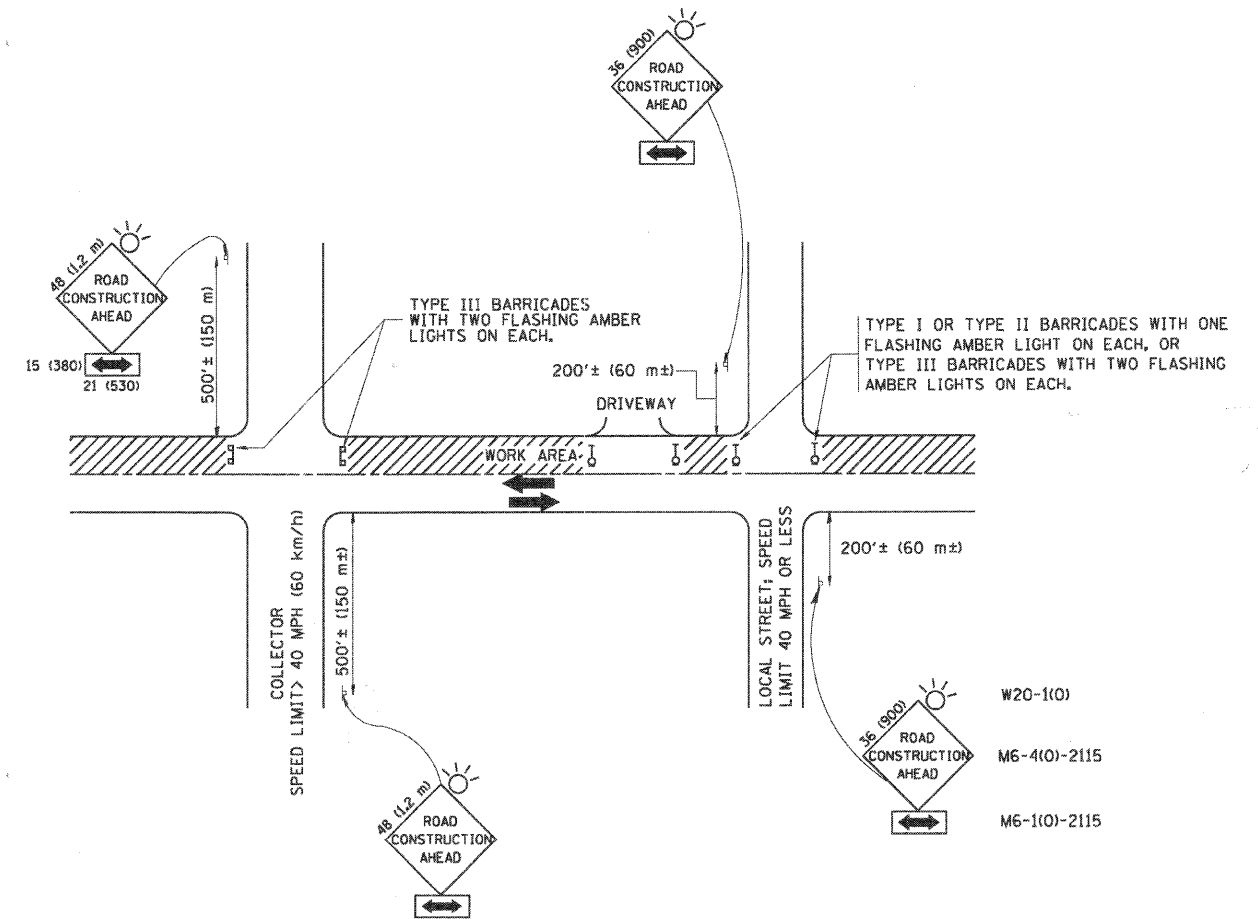
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

FILE NAME = W:\data\22x34\bd36.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -	R. SHAH 09-09-94 R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED		F.A. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 94
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD-36		CONTRACT NO. 21001	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M -8003(723)						



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. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- 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.

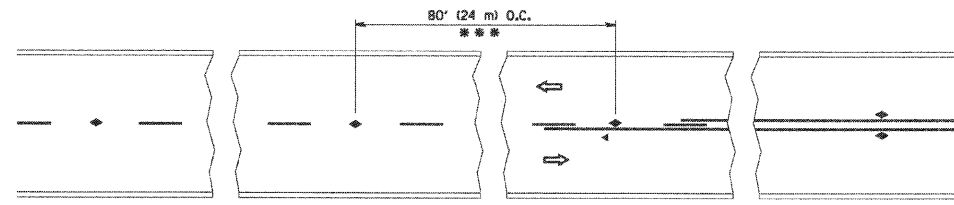
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 58.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2000	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

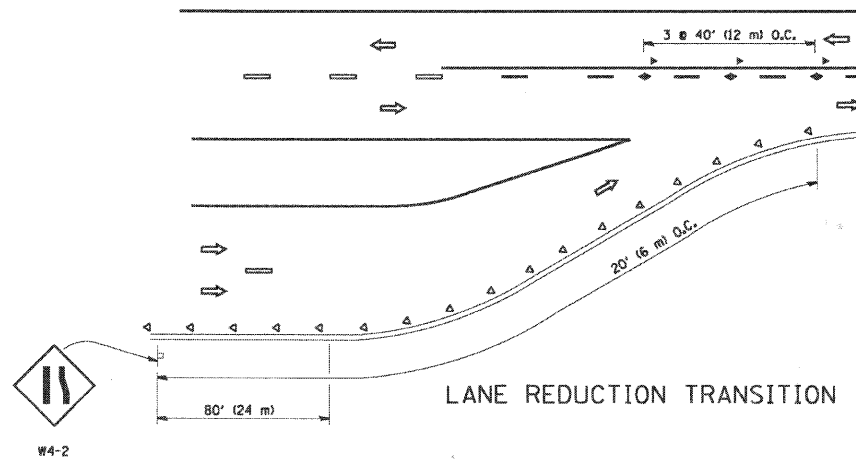
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F.A. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 95
TC-10			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-800367237				

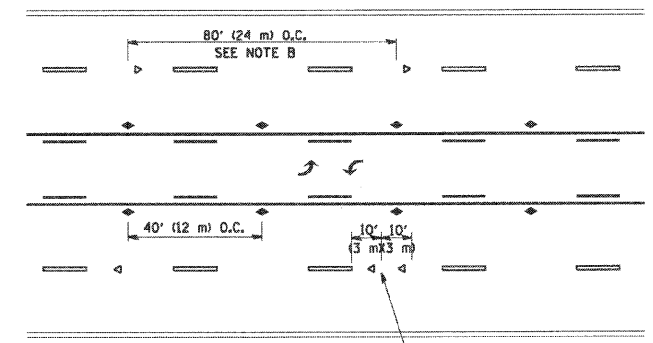


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

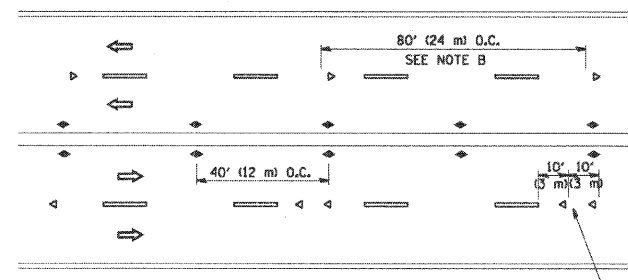
TWO-LANE/TWO-WAY



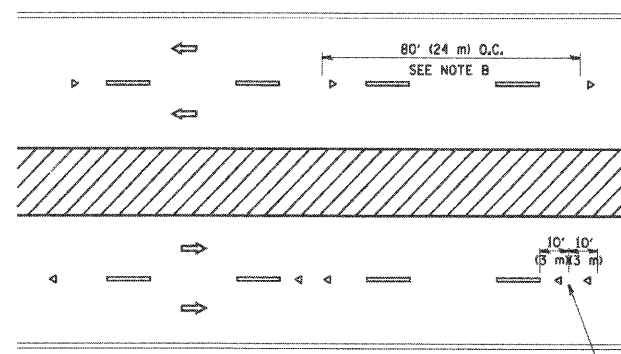
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

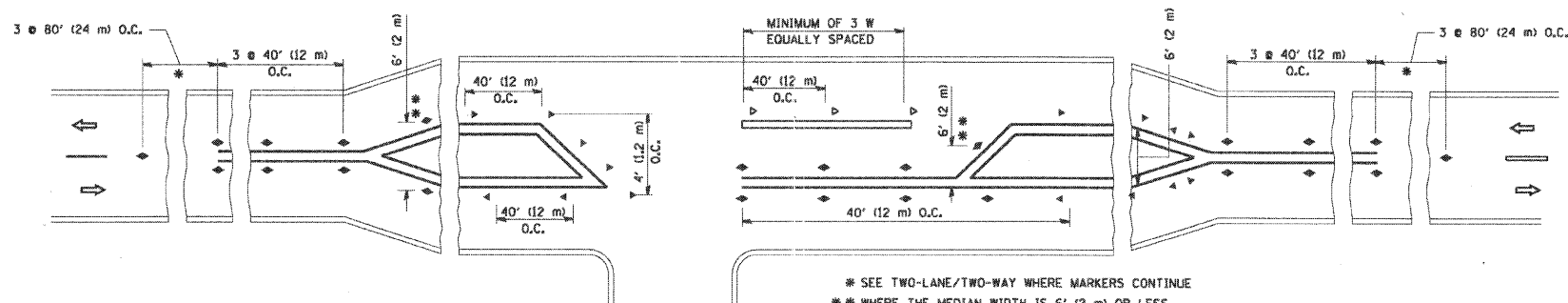
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

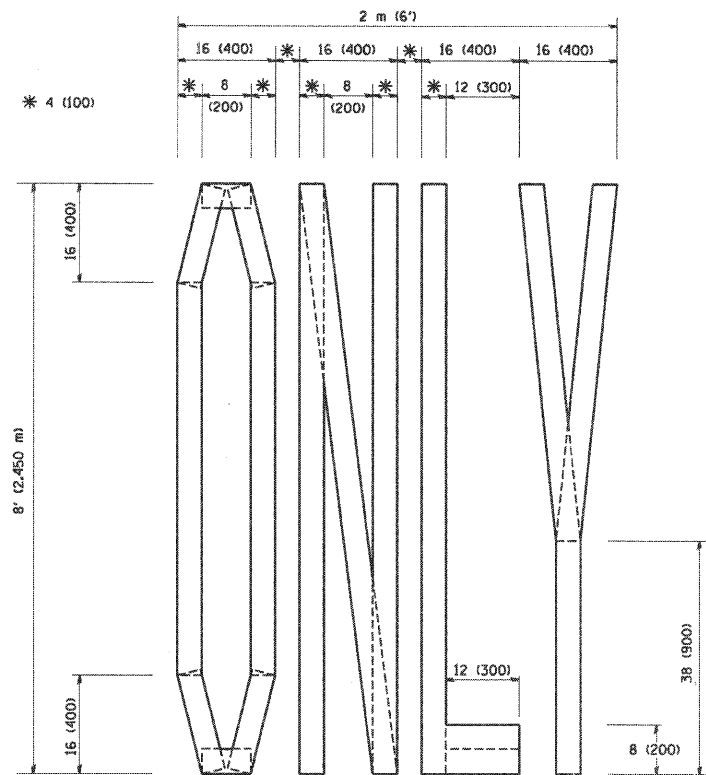
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\diststd\22x34\td11.dgn	USER NAME = gaglienabt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 1/4/2008	DATE -	REVISED -

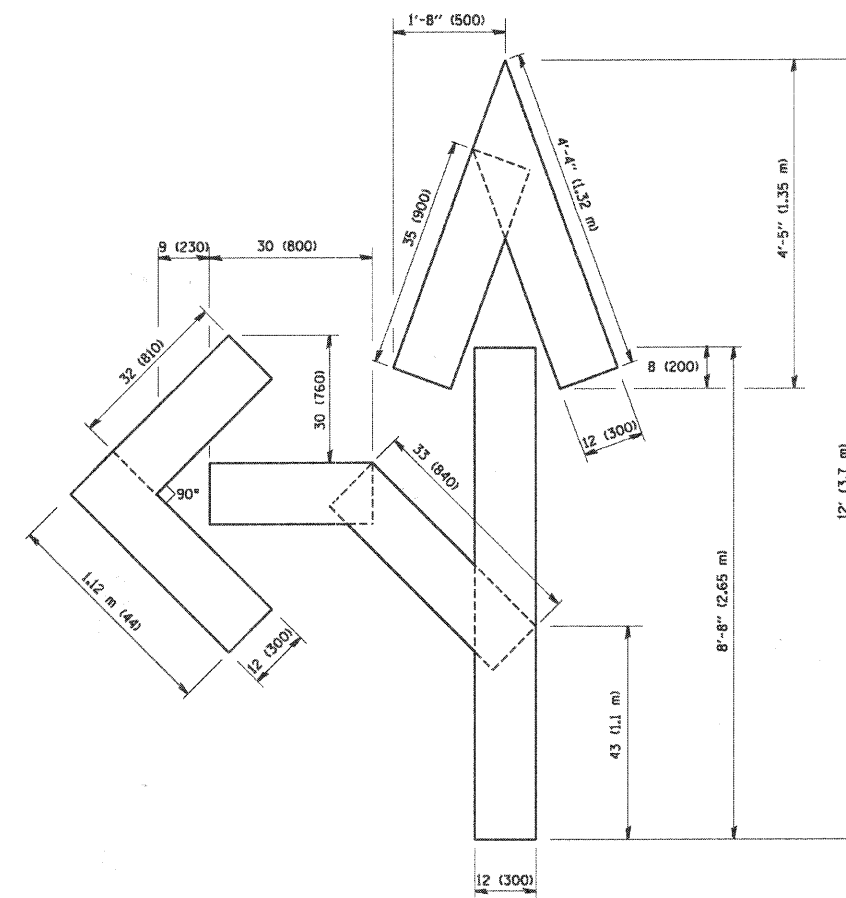
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLow RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

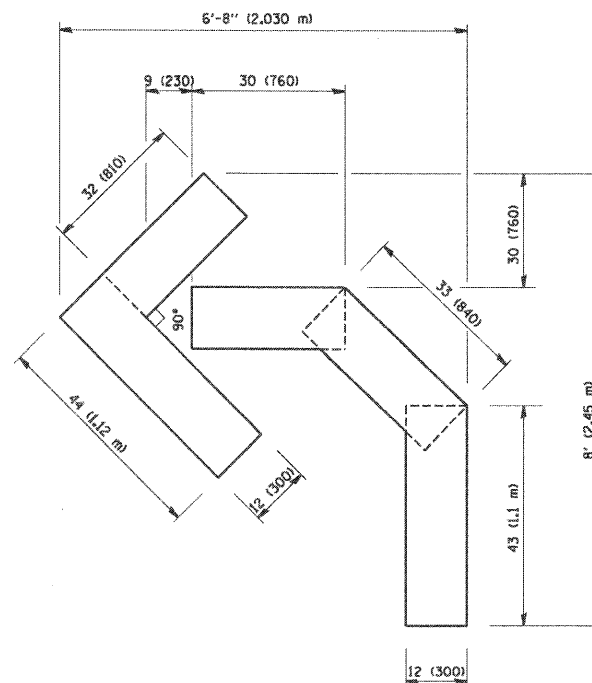
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-00-PV	COOK	169	96
TC-11			CONTRACT NO. 0304	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(723)				



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.

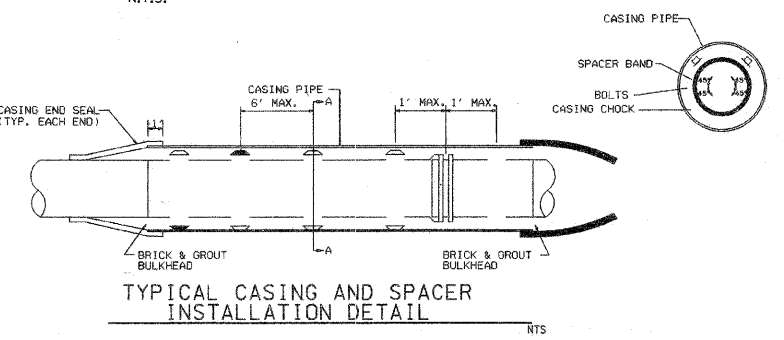
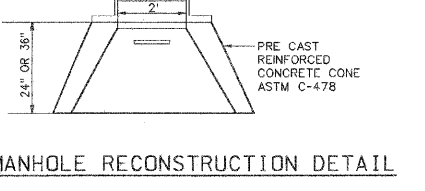
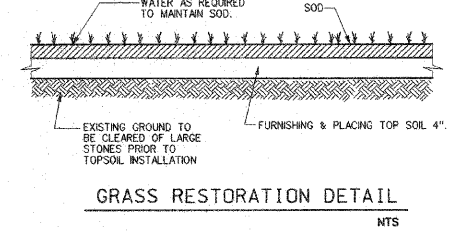
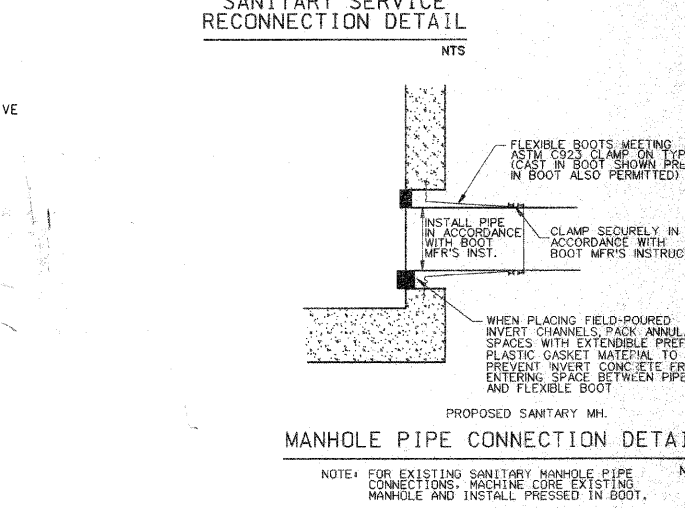
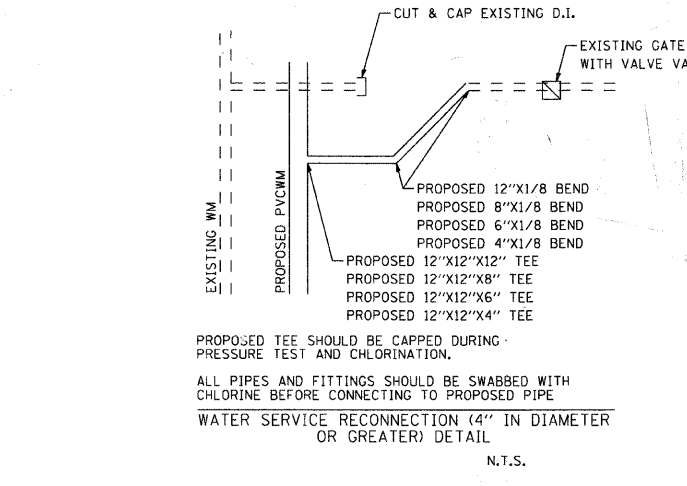
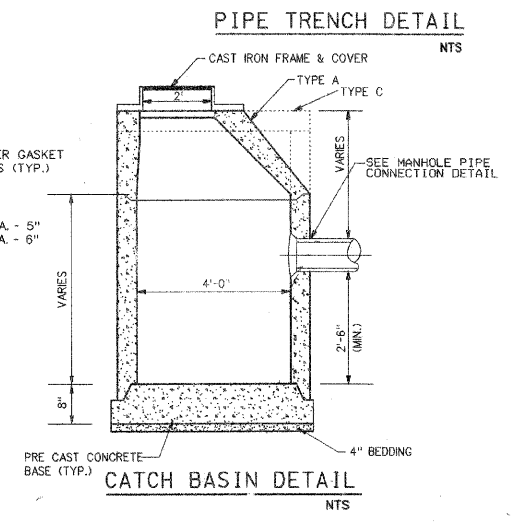
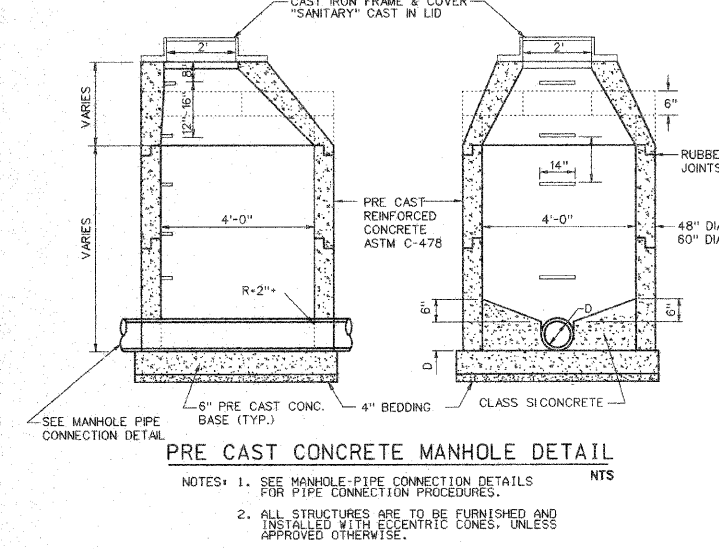
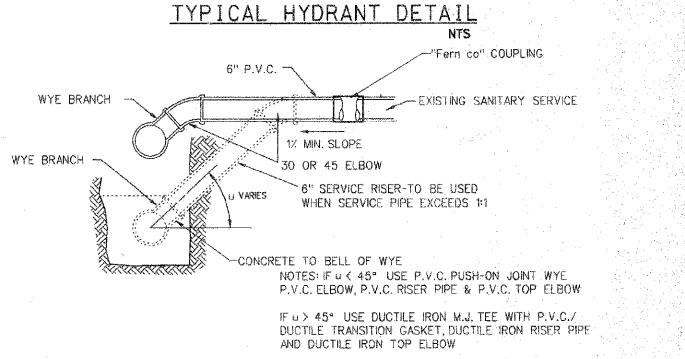
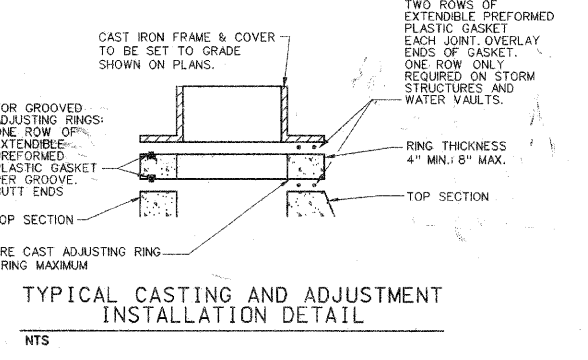
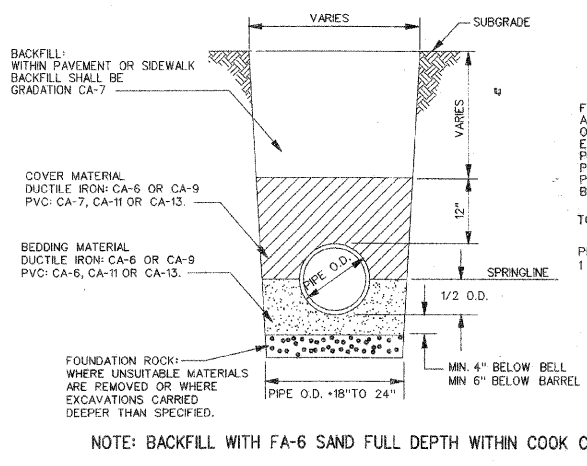
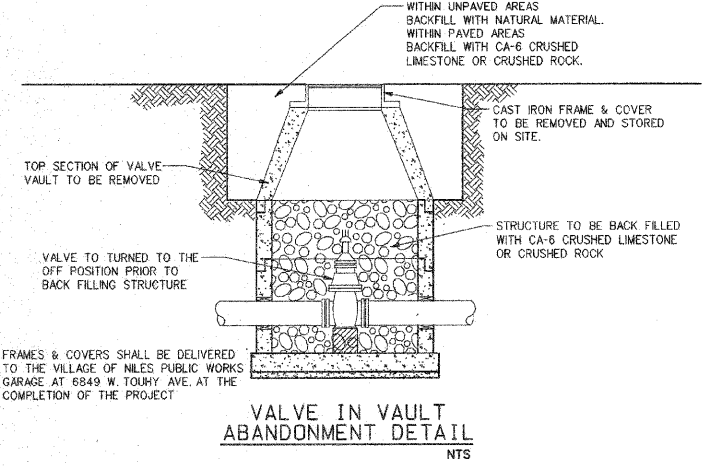
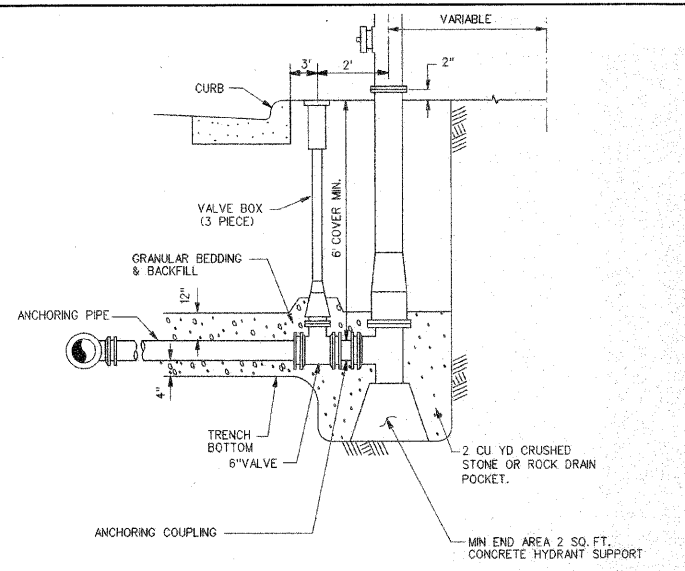
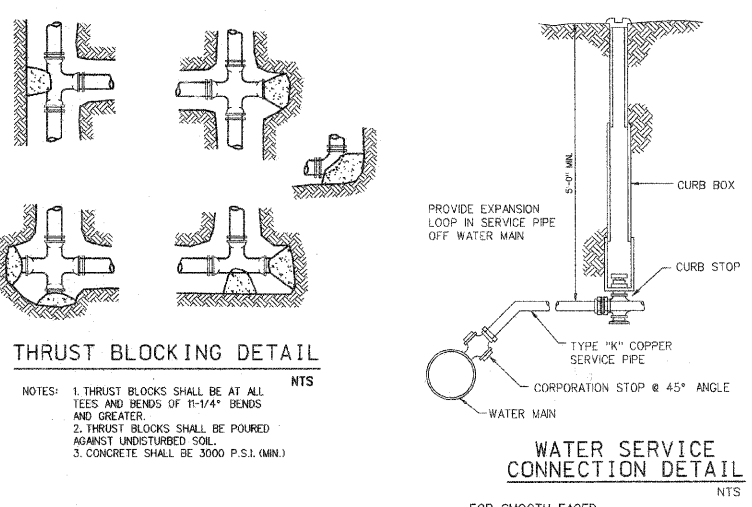
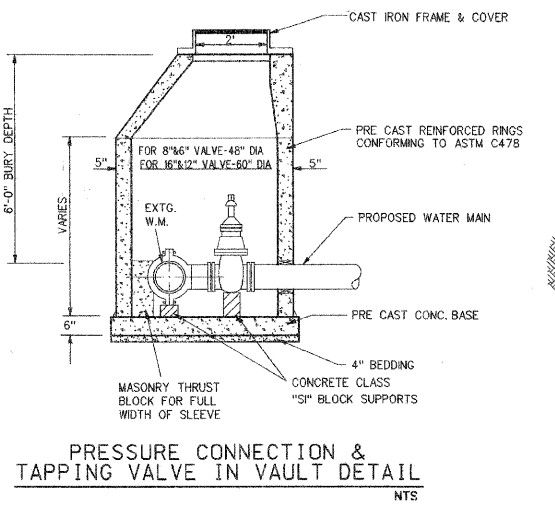
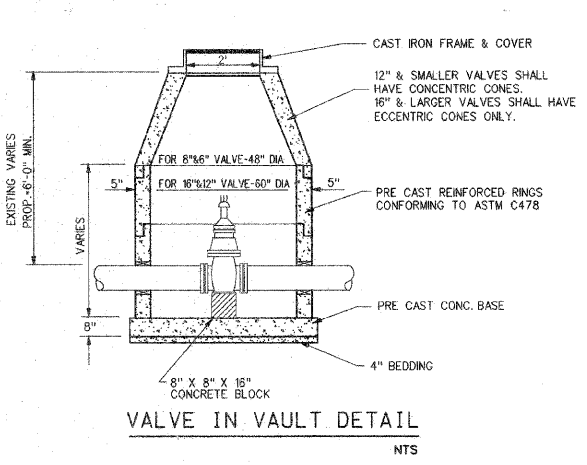
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		DRAWN -	REVISED - T. RAMMACHER 11-04-97
		CHECKED -	REVISED - T. RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

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. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169	SHEET NO. 98
TC-16		CONTRACT NO. 03-0000		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-8003(723)				



USER NAME = charlke	DESIGNED -	REVISIONS -
PLOT SCALE =	DRAWN -	REVISIONS -
PLOT DATE = 1/16/2009	CHECKED -	REVISIONS -
	DATE = 12/16/08	REVISIONS -

VILLAGE OF NILES

VILLAGE OF NILES WATER MAIN DETAILS

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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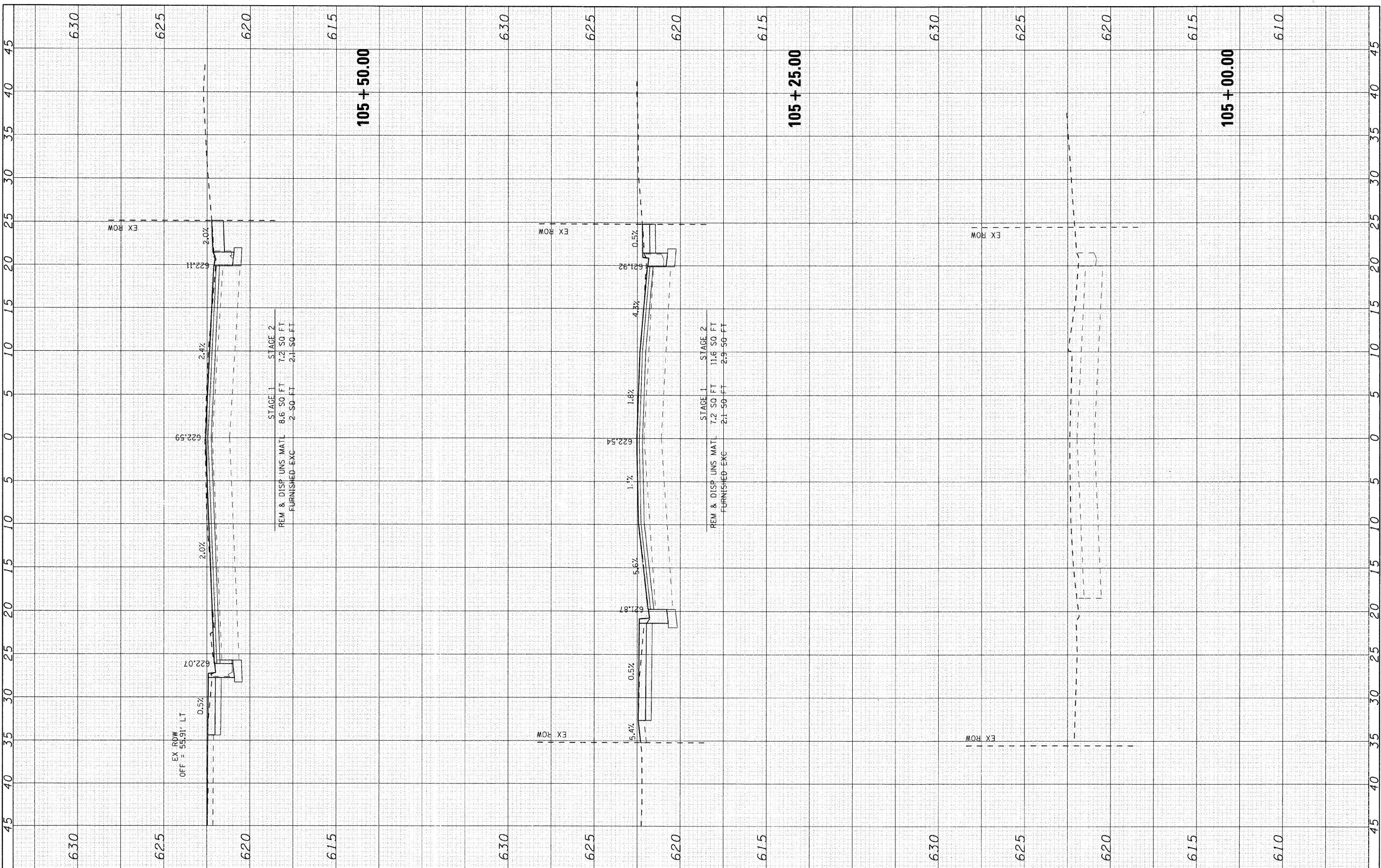
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3513	08-00107-01-PV	COOK	169	99
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(723)				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
TEMPLATE	
AREAS CHECKED	

635

635



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USER NAME = charlke	DESIGNED - CMH	REVISED -
PLOT SCALE = 5	DRAWN - CMH	REVISED -
PLOT DATE = 12/22/2008	CHECKED - JLP	REVISED -
	DATE - 12/16/08	REVISED -

VILLAGE OF NILES

MILWAUKEE AVENUE CROSS SECTIONS

SCALE: 5 SHEET NO. 1 OF 70 SHEETS STA. 105+00.00 TO STA. 105+50.00

F.A.U. RTE. 3513	SECTION 08-00107-00-PV	COUNTY COOK	TOTAL SHEETS 169
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-8003(1723)			SHEET NO. 100
CONTRACT NO. 6309			

MILWAUKEE AVENUE IMPROVEMENTS
 06/25/03
 06/25/03-KSC-Milwaukee.dgn