

FOR INDEX OF SHEETS, SEE SHEET NO. 2 04-26-13 LETTING ITEM 174

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 4087 (PROSPECT STREET),
 FROM FAP 533 (ILLINOIS ROUTE 176) TO FAP 525 (U.S. ROUTE 20)
 RECONSTRUCTION AND TRAFFIC SIGNAL
 SECTION 98-00024-00-WR
 PROJECT M-4003(185)
 McHENRY COUNTY
 C-91-256-13

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63532		

ROADWAY CLASSIFICATION

PROSPECT STREET LOCAL COLLECTOR
 U.S. ROUTE 20 STRATEGIC REGIONAL ARTERIAL
 IL. ROUTE 176 PRINCIPAL ARTERIAL

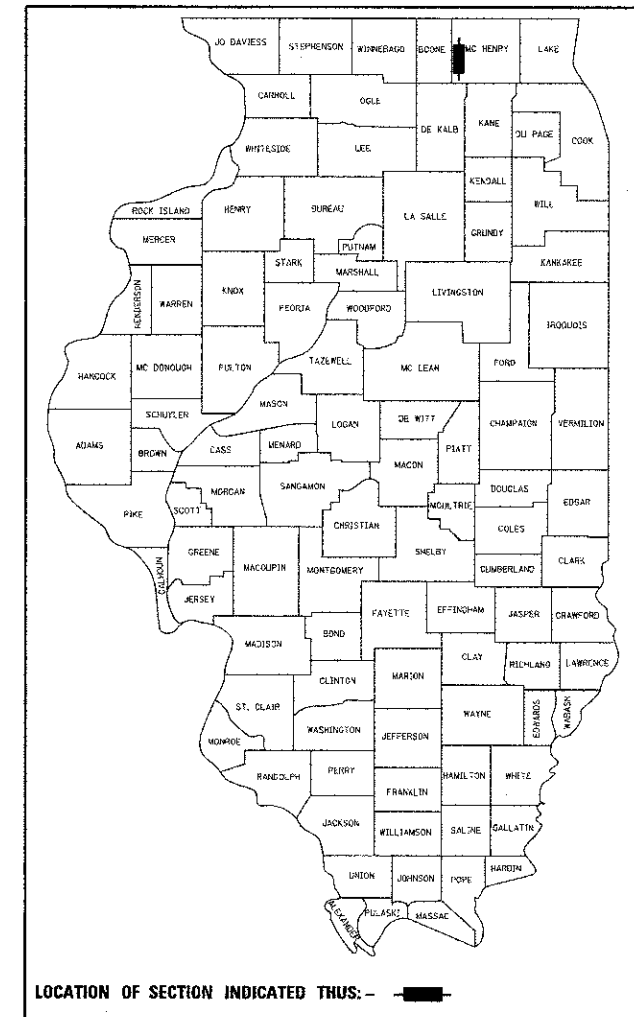
TRAFFIC DATA (2030)

ADT:
 PROSPECT STREET 6,520 VPD
 U.S. ROUTE 20 19,397 VPD
 U.S. ROUTE 176 11,899 VPD

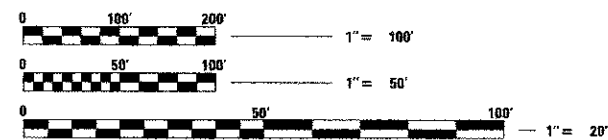
SPEED POSTED

PROSPECT STREET 30
 U.S. ROUTE 20 30
 IL. ROUTE 176 45

PROJECT LOCATED IN THE CITY OF MARENGO



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL.

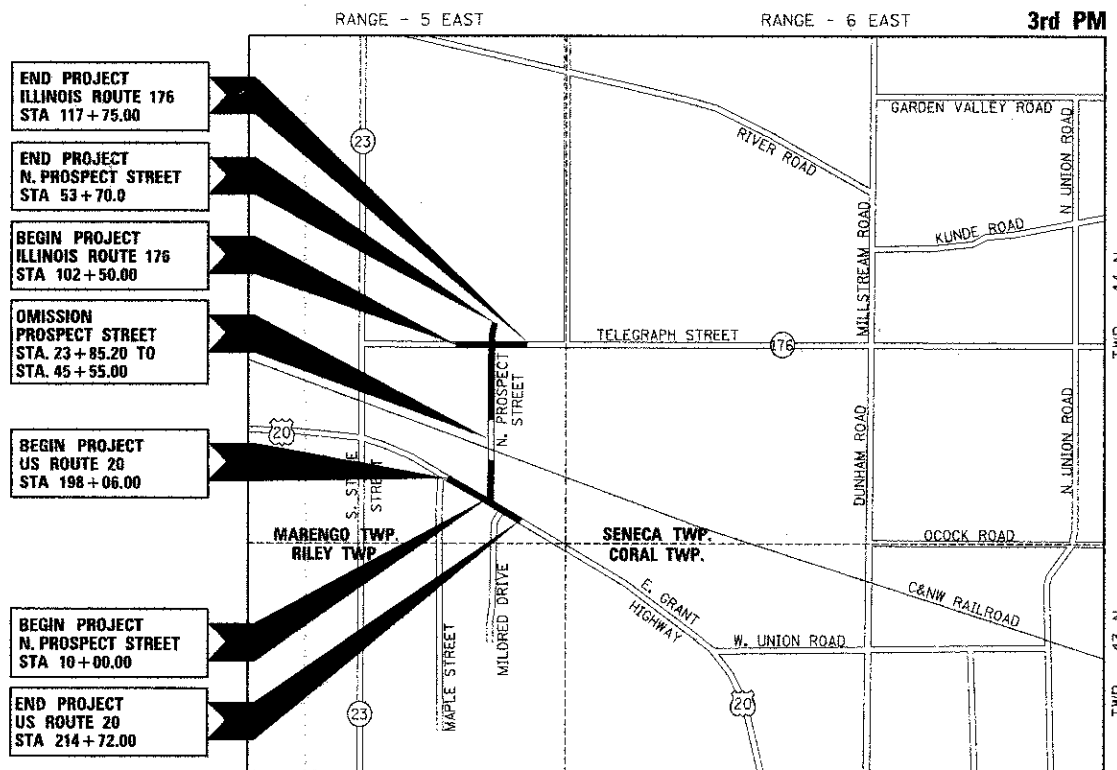


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

420 NORTH FRONT STREET, SUITE 100 | McHENRY, ILLINOIS 60060
 Phone: 815.395.1776 | Toll Free: 800.726.7905 | Fax: 815.395.1774 | HRGreen.com
 ILLINOIS PROFESSIONAL DESIGN FIRM #104-01322

PROJECT MANAGER: TED HAMILTON
 CITY ENGINEER: DAVID C. JOHANSON
 CONTRACT NO. 63532



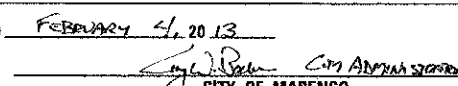
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- END PROJECT N. PROSPECT STREET STA 53+70.0
- BEGIN PROJECT ILLINOIS ROUTE 176 STA 102+50.00
- OMISSION PROSPECT STREET STA. 23+85.20 TO STA. 45+55.00
- BEGIN PROJECT US ROUTE 20 STA 198+06.00
- BEGIN PROJECT N. PROSPECT STREET STA 10+00.00
- END PROJECT US ROUTE 20 STA 214+72.00

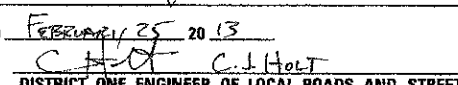
LOCATION MAP (NOT TO SCALE)

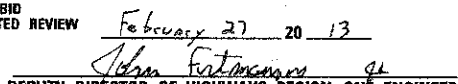
PROJECT GROSS LENGTH: 7586 FT. (1.44 MI)
 PROJECT NET LENGTH: 5391 FT. (1.02 MI)

PROSPECT STREET SOUTH = 1385 FT. (0.26 MI) U.S. ROUTE 20 = 1666 FT. (0.32 MI)
 PROSPECT STREET NORTH = 815 FT. (0.15 MI) U.S. ROUTE 176 = 1525 FT. (0.29 MI)

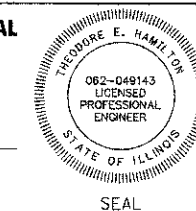
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

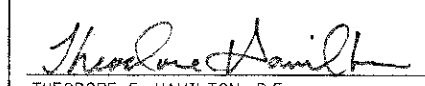
APPROVED February 4, 2013

 CITY OF MARENGO

PASSED February 25, 2013

 DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW February 27, 2013

 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL




 THEODORE E. HAMILTON, P.E.
 EXPIRES: 11-30-13

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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, 2012. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REFERENCES TO 'ENGINEER' SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM 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 8-1-1 (DOT AND THE CITY OF MARENGO AT (815) 363-2190 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 BITUMINOUS TAPER DETAILS SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 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 BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.1 GALLONS / 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 SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.
- DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W. OR UNLESS OTHERWISE NOTED.
- 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.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 741-9857 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKING ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
- 10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL PROVIDE NOTICE TO THE PUBLIC A MINIMUM OF 5 DAYS IN ADVANCE OF ANY WORK THAT REQUIRES THE CLOSURE OF LANE THROUGH THE USE OF A CHANGEABLE MESSAGE SIGN OR TEMPORARY INFORMATION SIGN.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- LOCATIONS OF PAVEMENT PATCHING WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

STORM SEWERS, WATER MAINS, AND UTILITIES

- 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.
- 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.
- 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.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS FOR NAMES AND NUMBERS OF CONTACTS.
- 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 THE CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.

GENERAL NOTES (CONT.)

- 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.
- 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.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- 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.
- ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES ALONG ILLINOIS ROUTE 176 AND U.S. ROUTE 20 SHALL REMAIN THE PROPERTY OF IDOT AND BE DELIVERED TO THE APPROPRIATE IDOT MAINTENANCE YARD AS APPLICABLE. ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES ALONG PROSPECT STREET SHALL REMAIN THE PROPERTY OF THE CITY AND DELIVERED TO 132 EAST PRAIRIE STREET, MARENGO, IL, AS APPLICABLE.
- 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 CITY OF MARENGO OR IDOT, AS APPLICABLE SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 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 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.
- 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.
- THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.
- ALL STORM SEWER SHALL BE REINFORCED CONCRETE PIPE WITH FLEXIBLE GASKET MEETING THE REQUIREMENTS OF ASTM C361. THIS ITEM WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE OF STORM SEWER.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CURB RAMPS SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DRIVEWAYS PER CURRENT IDOT STANDARDS AT LOCATIONS WHERE SIDEWALK IS SHOWN ON THE PLAN.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS OR EXISTING STREAMS, CREEKS, WETLANDS OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.
- ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED. THE RINGS SHALL BE INCLUDED IN THE COST OF WORK BEING PERFORMED.

BACKFILL

- STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
- 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.
- 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

- SEE IDOT STANDARD DETAIL 780001, DISTRICT ONE DETAILS (TC-13) AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 728 OF THE STANDARD SPECIFICATIONS.
- ALL SIGNS SHALL BE INSTALLED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE PAID FOR USING THE APPROPRIATE PAY ITEMS.

EROSION CONTROL PLANS

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SODDING IS PERFORMED.
- PROPERTIES AND CHANNELS ADJOINING THE SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

GENERAL NOTES (CONT.)

- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE CONSTRUCTION SITE, CHANNEL, WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- PERMANENT EROSION CONTROL SHALL INCLUDE TOPSOIL FURNISH AND PLACE, 4' AND SODDING, SALT TOLERANT, TO BE PROVIDED IN ACCORDANCE WITH ARTICLE 252 OF THE STANDARD SPECIFICATIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CREATE A PLAN TO STABILIZE FLOW LINES DURING STORM SEWER CONSTRUCTION WHEN RAIN IS FORECASTED. LACK OF AN APPROVED PLAN FROM THE RESIDENT ENGINEER OR FAILURE TO COMPLY WITH THE STABILIZED FLOW LINE PLAN WILL RESULT IN AN A DEFICIENCY DEDUCTION.

TRAFFIC CONTROL

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

EARTHWORK

- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
- PRIOR TO ANY EMBANKMENT PLACEMENT, ALL VEGETATION AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL.
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

LANDSCAPING

- THE LOCATIONS OF PROPOSED TREES TO BE PLANTED ARE SHOWN ON THE PLANS. THESE LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER AND THE CITY.

DATE	BY	REVISION

DATE	BY	REVISION

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 PROJECT CONTACT: Illinois Professional Design Firm
 CLIENT: HRGreen.com
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PLOT SCALE =	DRAWN SMP	REVISED -
PLOT DATE = 3/22/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES		F.A.P. RTE. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 3
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 63532			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	88	88	
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	710	710	
20101100	TREE TRUNK PROTECTION	EACH	10	10	
20101200	TREE ROOT PRUNING	EACH	10	10	
20200100	EARTH EXCAVATION	CU YD	7,983	7,983	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	816	816	
20400800	FURNISHED EXCAVATION	CU YD	200	200	
20800150	TRENCH BACKFILL	CU YD	423	423	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,080	3,080	
* 21101615	TOPSOIL FURNISH AND PLACE 4"	SQ YD	20,505	20,505	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	255	255	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	255	255	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	255	255	
* 25100630	EROSION CONTROL BLANKET	SQ YD	20,505	20,505	
* 25200110	SODDING, SALT TOLERANT	SQ YD	20,505	20,505	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
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 CLIENT: [Redacted]
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PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 2/13/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
* 25200200	SUPPLEMENTAL WATERING	UNIT	185	185	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	424	424	
28000305	TEMPORARY DITCH CHECKS	FOOT	90	90	
28000400	PERMITER EROSION BARRIER	FOOT	2,170	2,170	
28000510	INLET FILTERS	EACH	49	49	
28100105	STONE RIPRAP, CLASS A3	SQ YD	28	28	
28200200	FILTER FABRIC	SQ YD	39	39	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	784	784	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	11,045	11,045	
31101200	SUB BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4,615	4,615	
31101400	SUB BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	1,720	1,720	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	3,005	3,005	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	915	915	
35501318	HOT-MIX ASPHALT BASE COURSE, 8 1/2"	SQ YD	2,345	2,345	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,139	2,139	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: # 194-001322
 CLIENT: MCHENRY COUNTY
 DATE PLOTTED: 2/13/2013 12:58:27 PM
 PLOT SCALE: 1" = 400'
 PLOT ORIGIN: 0,0
 PEN TABLE: Standard-Trans.plt

HRGreen.com # 194-001322	USER NAME: sparnal	DESIGNED - DCJ	REVISED -
HRGreen	PLOT SCALE: 1" = 400'	DRAWN - SMP	REVISED -
	PLOT DATE: 2/13/2013	CHECKED - TEH	REVISED -
		DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 13 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
40600300	AGGREGATE (PRIME COAT)	TON	88	88	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	8	8	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	105	105	
40600895	CONSTRUCTION TEST STRIP	EACH	4	4	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	90	90	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	96	96	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,779	1,779	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	978	978	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,358	1,358	
40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SQ YD	6,770	6,770	
42001300	PROTECTIVE COAT	SQ YD	4,461	4,461	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	50	50	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	24,349	24,349	
42400800	DETECTABLE WARNINGS	SQ FT	399	399	
44000100	PAVEMENT REMOVAL	SQ YD	6,375	6,375	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #164-001322
 CLIENT: #164-001322
 DATE PLOTTED: 2/13/2013 12:36:37 PM
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 PLOT ORIGIN: 0,0,0
 PLOT SCALE: 1/8"=1'-0"
 PLOT DATE: 2/13/2013



USER NAME = sperral	DESIGNED - DCJ	REVISED -
PLDT SCALE =	DRAWN - SMP	REVISED -
PLDT DATE = 2/13/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF	TOTAL SHEETS
	3	OF	13

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	6
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 63532		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	6,577	6,577	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	3,503	3,503	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,648	2,648	
44000600	SIDEWALK REMOVAL	SQ FT	14,905	14,905	
44004250	PAVED SHOULDER REMOVAL	SQ YD	1,581	1,581	
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	90	90	
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	90	90	
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	235	235	
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	200	200	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	5,010	5,010	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1,031	1,031	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1,135	1,135	
542A5470	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	92	92	
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	138	138	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	162	162	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #184-001322
 CLIENT: #184-001322
 DATE PLOTTED: 2/21/2013 5:17:02 PM
 FILE NAME: 638_sump.dgn
 PLOT DRIVER: pof_yeah
 PEN TABLE: s:\order-trans.tbl



USER NAME = spernal	DESIGNED - DCJ	REVISED -
PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 2/21/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 13 SHEETS STA. TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	62	62	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	10	10	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	5	5	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1	
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	3	3	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	943	943	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	165	165	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	220	220	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	227	227	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	1,227	1,227	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	368	368	
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	110	110	
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	120	120	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #184-001322
 CLIENT: #184-001322
 DATE PLOTTED: 2/21/2013 3:17:56 PM
 FILE NAME: 635_sums.qm
 PLOT DRIVER: pdf_writer
 PEN TABLE: s:\fontdir\frans.tbl



USER NAME = spernal	DESIGNED - DCJ	REVISED -
PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 2/21/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	8
FED. ROAD DIST. NO.			CONTRACT NO. 63532	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
55100500	STORM SEWER REMOVAL 12"	FOOT	1,003	1,003	
55100700	STORM SEWER REMOVAL 15"	FOOT	1,282	1282	
55100900	STORM SEWER REMOVAL 18"	FOOT	372	372	
55101200	STORM SEWER REMOVAL 24"	FOOT	347	347	
* 56106300	ADJUSTING WATER MAIN 6"	FOOT	50	50	
* 56300300	ADJUSTING WATER SERVICE LINES	FOOT	150	150	
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	8	8	
* 56500200	DOMESTIC WATER SERVICE BOXES TO BE MOVED	EACH	2	2	
* 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	5	5	
60201105	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
60201340	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	8	8	
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	5	5	
60218300	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	10	10	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #104-001322
 CLIENT: #104-001322
 DATE PLOTTED: 2/21/2013 3:08:00 PM
 FILE NAME: 635.sum.plt
 PLOT DRIVERS: pdf2400
 PEN TABLE: Standard-Frame.tbl

HRGreen.com #104-001322	USER NAME = sperral	DESIGNED - DCJ	REVISED -
HRGreen	PLOT SCALE =	DRAWN - SMP	REVISED -
	PLOT DATE = 2/21/2013	CHECKED - TEH	REVISED -
		DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET NO. 6 OF 13 SHEETS STA. TO STA.


F.A.J. RTE. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 9
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 63532

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
60219000	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 8 GRATE	EACH	5	5	
60221000	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60222240	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1	
60221102	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1	
60224020	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
60224443	MANHOLES, TYPE A, 7' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	8	8	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	12	12	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	7	7	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	5	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	7	7	
60500040	REMOVING MANHOLES	EACH	9	9	
60500050	REMOVING CATCH BASINS	EACH	8	8	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #184-001322
 CLIENT: 2/21/2013 3:08:04 PM
 DATE PLOTTED: 630_sun.dgn
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 PLOT DRIVER: standard-frames.tbl
 PEN TABLE:

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF	TOTAL SHEETS
	7	OF	13 SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	10
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
60500060	REMOVING INLETS	EACH	9	9	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	7	7	
60600605	CONCRETE CURB, TYPE B	FOOT	406	406	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,570	3,570	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2,605	2,605	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	66	66	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,515	2,515	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	180	180	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18	18	
70300100	SHORT TERM PAVEMENT MARKINGS	FOOT	12,380	12,380	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	200	200	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	36,160	36,160	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	750	750	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	12,800	12,800	

• SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 3/22/2013 10:08 AM
 FILE NAME: 838.dwg
 PLOT SHEET: 115 of 115
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 1/22/2013 10:08 AM
 838.dwg
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HRGreen.com
 Illinois Professional Design Firm
 815-401-1327

USER NAME: * sponnal	DESIGNED - DCJ	REVISED -
PLOT SCALE:	DRAWN - SMP	REVISED -
PLOT DATE: 3/22/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4007	98-00024-00-WR	MCHENRY	115	11
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
72000100	SIGN PANEL - TYPE 1	SO FT	361.5	345.0	16.5
72000200	SIGN PANEL - TYPE 2	SO FT	12.5		12.5
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4	
72900100	METAL POST - TYPE A	FOOT	417	417	
72900200	METAL POST - TYPE B	FOOT	394	394	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	805	805	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	24,910	24,910	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,910	2,910	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,660	1,660	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	430	430	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	200	200	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	156	156	
* 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	741.0		741.0

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: # 104-011322
 DATE PLOTTED: 2/13/2013 12:28:50 PM
 FILE NAME: 636_ssm.dgn
 PLOT DRIVER: pdf, vplot
 PEN TABLE: standard-trans.tbl



USER NAME = spernal	DESIGNED - DCJ	REVISED -
PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 2/13/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185.0		185.0
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	82.0		82.0
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245.0		245.0
81400100	HANDHOLE	EACH	5		5
81400200	HEAVY-DUTY HANDHOLE	EACH	2		2
81400300	DOUBLE HANDHOLE	EACH	1		1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,103.0		2,103.0
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,101.5		1,101.5
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,361.0		1,361.0
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,127.5		1,127.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	125.5		125.5
87301900	ELECTRICAL CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6.1C	FOOT	996.5		996.5
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1		1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2

• SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 3/25/2013 2:47:32 PM
 FILE NAME: 6356.mxd
 PLOT DRIVER: pdfLyr8
 PEN TABLE: penne.standards-trans - Copy.tbl

HRGreen.com
 Whole Professional Design Firm
 #184-001322

USER NAME = spenal	DESIGNED - DCJ	REVISED -
PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 3/25/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 10 OF 13 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
* 87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1		1
* 87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30		30
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3		3
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3		3
* 88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1
* 88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1*FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6		6
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6		6
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	5		5

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

PROSPECT
 638_sun.dgn
 2/13/2013 12:28:56 PM
 DATE PLOTTED
 FILE NAME
 PLOT DRIVER
 PLOT TABLE

HRGreen.com
 Illinois Professional Design Firm
 # 184-091522

USER NAME = sperral	DESIGNED - DCJ	REVISED -
DRAWN - SMP	REVISOR -	
CHECKED - TEH	REVISOR -	
DATE - 2/5/13	REVISOR -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE:	SHEET NO. 11 OF 13 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	14
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003 URBAN	0021 URBAN
* 88600100	DETECTOR LOOP, TYPE I	FOOT	441.5		441.5
* 88700200	LIGHT DETECTOR	EACH	3		3
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	6		6
* A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
* A2005616	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
* A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	6	6	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100	
* X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	397		397
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	25	25	
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	11	11	
X4023000	TEMPORARY ACCESS (ROAD)	EACH	6	6	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	5,365	5,365	
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200	200	

* SPECIALTY ITEMS
 Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/13/2013 12:26:59 PM
 FILE NAME: 63537800.dgn
 PLOT DRIVER: pdf2424f
 PLOT TABLE: 63537800.tbl

HRGreen.com
 1444 Professional Design Firm
 # 144-001322

USER NAME = spenal	DESIGNED - DCJ	REVISED -
PLOT SCALE =	DRAWN - SMP	REVISED -
PLOT DATE = 2/13/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE:	SHEET NO. 12 OF 13 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	15
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO.		63532

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% LOCAL ROADWAY	80% FEDERAL 20% LOCAL SIGNALS
				0003	0021
				URBAN	URBAN
X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	6	6	
X6026057	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7810400	TEMPORARY RAISED PAVEMENT MARKER	EACH	200	200	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0022800	FENCE REMOVAL	FOOT	563	563	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	254.2	254.2	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Δ Z0076600	TRAINEES	HOUR	500	500	
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

• SPECIALTY ITEMS
Δ CONSTRUCTION CODE 0042

COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 5/26/2013 2:17:25 PM
FILE NAME: 635332.dwg
PLOT DRIVER: pldt1001
PEN TABLE: pen.tbl



USER NAME: spenal	DESIGNED: DCJ	REVISED: -
PLOT SCALE: -	DRAWN: SMP	REVISED: -
PLOT DATE: 3/26/2013	CHECKED: TEH	REVISED: -
	DATE: 2/5/13	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

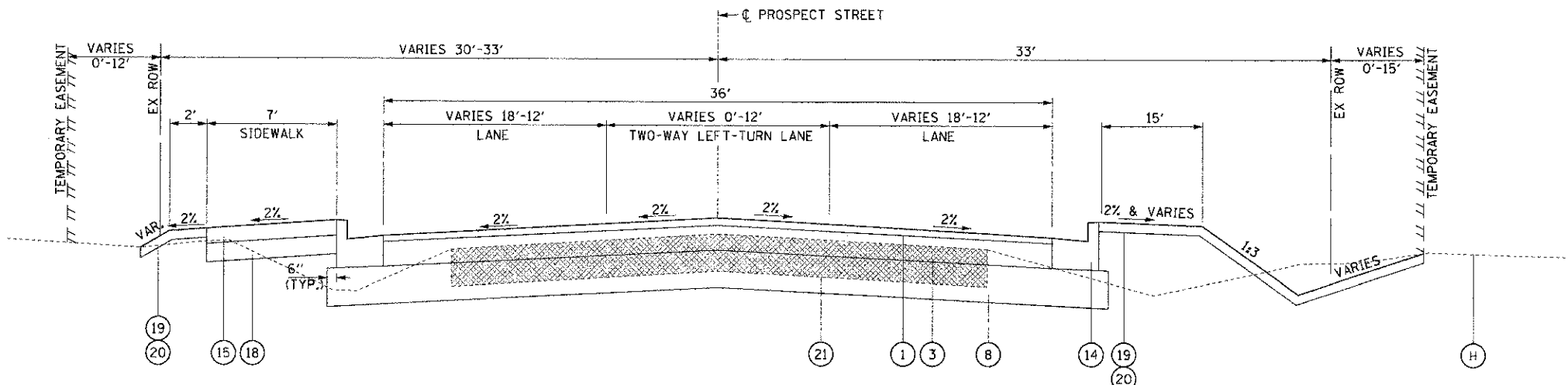
SUMMARY OF QUANTITIES

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

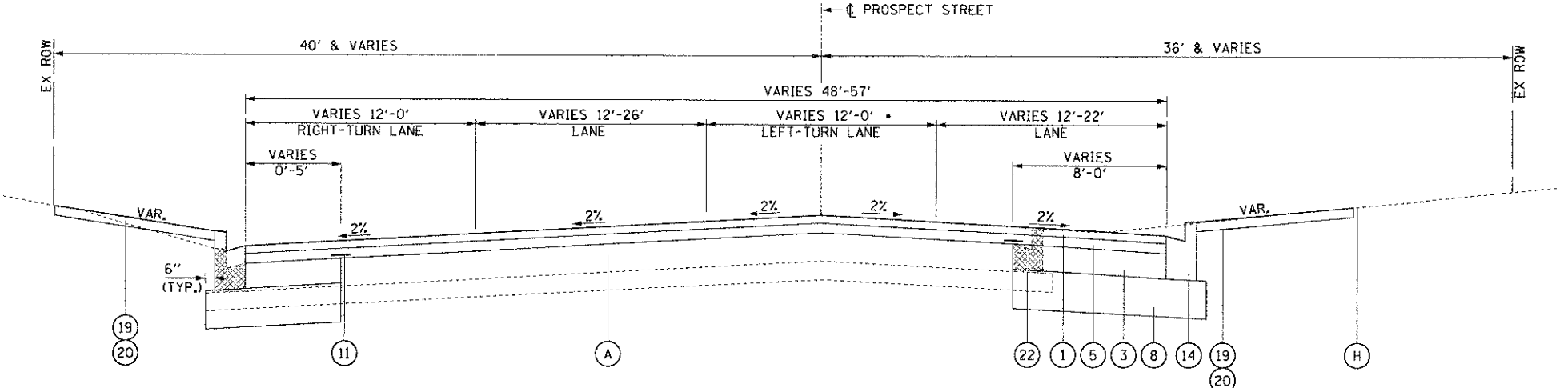
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCMENRY	115	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NOTED	
	STRUCTURE	
	NOTATION	
	CHG	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NOTED	
	STRUCTURE	
	NOTATION	
	CHG	
	NO.	



PROPOSED PROSPECT STREET
STA 45+55.00 TO STA 51+85.00



PROPOSED PROSPECT STREET
STA 51+85.00 TO STA 53+70.00

SEE PLANS FOR CONCRETE CURB & GUTTER MEDIAN
STA 53+14.00 TO STA 53+70.00

EXISTING TYPICAL SECTION LEGEND

- (A) HOT MIX ASPHALT PAVEMENT, (5" TO 8")
- (B) HOT MIX ASPHALT RESURFACING (3" TO 6")
- (C) PCC PAVEMENT (7" TO 10")
- (D) SUB BASE GRANULAR MATERIAL
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) PORTLAND CEMENT CONCRETE SIDEWALK
- (G) AGGREGATE SHOULDER
- (H) EXISTING GROUND

PROPOSED TYPICAL SECTION LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 8"
- (4) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (5) LEVELING BINDER (MACHINE METHOD), N50, VARIES 3/4" - 2 1/4"
- (6) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 4"
- (7) HOT-MIX ASPHALT BASE COURSE, N70, 8 1/2"
- (8) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (9) HOT-MIX ASPHALT SHOULDERS, 8"
- (10) AGGREGATE SHOULDERS, TYPE B 6"
- (11) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (12) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (13) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (14) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (15) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- (16) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (17) SUB BASE GRANULAR MATERIAL, TYPE B 6"
- (18) SUB BASE GRANULAR MATERIAL, TYPE B 4"
- (19) TOPSOIL FURNISH AND PLACE 4"
- (20) SODDING, SALT TOLERANT
- (21) PAVEMENT REMOVAL
- (22) COMBINATION CURB AND GUTTER REMOVAL
- (23) SIDEWALK REMOVAL
- (24) PAVED SHOULDER REMOVAL
- (25) AGGREGATE SUBGRADE IMPROVEMENT, (CU YD)
- (26) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (27) HMA PAVEMENT (FULL DEPTH) 10"

• AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR USE OF AGGREGATE SUBGRADE IMPROVEMENT (CU YD) SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. AFTER EXCAVATION TO ROUGH SUBGRADE ELEVATION, THE ENGINEER OR SOILS INSPECTOR SHOULD OBSERVE THE BEHAVIOR OF THE ENTIRE EXPOSED SUBGRADE UNDER THE TRAFFIC OF HEAVY RUBBER-TIRED CONSTRUCTION EQUIPMENT SUCH AS MOTOR GRADERS OR FULLY LOADED DUMP TRUCKS. ALL POTENTIALLY UNSUITABLE SOIL SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL (SSM). ANY AGGREGATE SUBGRADE IMPROVEMENT (CU YD) OR GEOTECHNICAL FABRIC NOT NEEDED AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT WITH NO ADDITIONAL COMPENSATION DUE TO THE CONTRACTOR.

ROAD	STATION RANGE	UNDERCUT DEPTH	GEOTECHNICAL FABRIC
PROSPECT ST	10+00 TO 13+05	6"	NO
	13+05 TO 15+80	0"	YES
	15+80 TO 18+35	0"	YES
	18+35 TO 20+00	12"	NO
IL 176	108+35 TO 111+35	6"	YES
	111+35 TO 114+50	6"	NO
	114+50 TO 117+75	0"	YES
US 20	205+50 TO 208+50	12"	NO

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: 2/13/2013 8:37:17 AM
 DATE PLOTTED: 6:38:17 PM
 FILE NAME: 6352.dgn
 PLOT DRIVER: pcf.ycpf
 PEN TABLE: 37 under 0-trans.tbl



USER NAME = sperral	DESIGNED DCJ	REVISED -
PLLOT SCALE =	DRAWN SMP	REVISED -
PLLOT DATE = 2/13/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
PROSPECT STREET

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

F.A.D. RTEL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-0024-00-WR	MCHENRY	115	18
CONTRACT NO.			63532	

EARTHWORK SCHEDULE

US ROUTE 20

STATION	REMOVAL AND DISPOSAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE
198+07.18					
198+25.00	0.0	15.7	0.6	0.0	12.0
198+50.00	0.0	23.1	0.8	0.0	17.7
198+79.65	0.0	31.2	0.6	0.0	24.4
198+86.65	0.0	8.7	0.0	0.0	6.9
199+00.00	0.0	14.0	0.2	0.0	11.0
199+06.00	0.0	5.0	0.5	0.0	3.5
199+25.00	0.0	15.3	2.5	0.0	9.8
199+41.00	0.0	17.1	1.9	0.0	11.8
199+44.20	0.0	4.6	0.2	0.0	3.5
199+50.00	0.0	8.7	0.2	0.0	6.8
199+59.64	0.0	14.2	0.3	0.0	11.0
199+63.00	0.0	4.5	0.3	0.0	3.3
199+95.00	0.0	37.8	5.8	0.0	24.4
200+00.00	0.0	6.1	0.7	0.0	4.2
200+14.27	0.0	21.0	0.7	0.0	16.0
200+50.00	0.0	51.7	2.5	0.0	38.9
201+00.00	0.0	59.5	5.6	0.0	42.0
201+35.00	0.0	37.1	4.6	0.0	25.1
201+50.00	0.0	17.0	1.5	0.0	12.1
201+55.05	0.0	6.4	0.3	0.0	4.9
202+00.00	0.0	48.6	3.7	0.0	35.1
202+50.00	0.0	43.4	6.0	0.0	28.7
202+55.01	0.0	4.5	0.4	0.0	3.2
202+74.70	0.0	20.1	1.5	0.0	14.6
202+95.00	0.0	21.2	2.6	0.0	14.4
203+00.00	0.0	5.0	0.5	0.0	3.5
203+18.44	0.0	15.9	0.4	0.0	12.3
203+50.00	0.0	24.4	1.9	0.0	17.6
203+86.51	0.0	35.0	3.0	0.0	25.0
204+00.00	0.0	14.8	0.5	0.0	11.3
204+42.00	0.0	36.9	6.4	0.0	23.1
204+50.00	0.0	6.1	1.4	0.0	3.5
204+76.66	0.0	21.6	1.0	0.0	16.3
205+00.00	0.0	15.3	0.6	0.0	11.6
205+50.00	4.4	30.7	2.2	4.4	22.4
206+00.00	21.9	57.5	40.1	21.9	5.9
206+17.16	14.5	34.1	31.0	14.5	-3.7
206+50.00	26.2	61.1	77.1	26.2	-28.2
206+90.00	24.5	55.0	100.5	24.5	-56.5
207+00.00	6.1	13.9	22.5	6.1	-11.4
207+19.00	11.5	26.6	21.4	11.5	-0.1
207+38.00	11.5	28.6	18.2	11.5	4.7
207+50.00	7.1	19.8	21.0	7.1	-5.2
208+00.00	25.9	74.4	70.5	25.9	-10.9
208+15.45	6.4	20.5	15.7	6.4	0.6
208+50.00	11.6	40.2	18.9	11.6	13.3
208+70.49	3.0	16.1	7.1	3.0	5.8
209+00.00	0.0	17.9	10.4	0.0	3.9
209+12.81	0.0	10.2	2.0	0.0	6.2
209+50.00	0.0	23.4	24.7	0.0	-6.0
209+79.61	0.0	16.1	19.5	0.0	-6.7
210+00.00	0.0	15.3	2.3	0.0	9.9
210+50.00	0.0	30.6	6.9	0.0	17.6
210+64.98	0.0	9.7	1.7	0.0	6.1
210+97.20	0.0	22.0	3.6	0.0	14.0
211+00.00	0.0	1.7	0.4	0.0	0.9
211+50.00	0.0	28.3	7.2	0.0	15.4
211+74.00	0.0	14.7	2.6	0.0	9.2
	174.7	1380.0	587.2	174.7	516.8

PROSPECT STREET

STATION	REMOVAL AND DISPOSAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE
10+50.00					
11+00.00	50.7	118.0	14.4	50.7	80.0
11+50.00	40.5	111.0	6.0	40.5	82.8
12+00.00	37.8	127.7	1.2	37.8	100.9
12+03.24	2.4	9.4	0.0	2.4	7.5
12+50.00	34.4	151.4	0.0	34.4	121.1
13+00.00	37.0	197.4	0.0	37.0	157.9
13+20.65	7.8	86.8	0.0	7.8	69.4
13+50.00	0.0	95.6	0.0	0.0	76.5
14+00.00	0.0	130.5	0.0	0.0	104.4
14+50.00	0.0	136.9	0.0	0.0	109.6
15+00.00	0.0	125.6	0.1	0.0	100.4
15+50.00	0.0	102.1	4.6	0.0	77.1
16+00.00	0.0	106.7	4.6	0.0	80.7
16+50.00	0.0	132.4	0.1	0.0	105.8
16+56.40	0.0	17.6	0.0	0.0	14.1
17+00.00	0.0	137.3	0.0	0.0	109.8
17+33.57	0.0	116.2	0.0	0.0	93.0
17+50.00	0.0	58.1	0.0	0.0	46.5
17+76.56	0.0	78.3	0.0	0.0	62.6
18+00.00	0.0	69.5	0.0	0.0	55.6
18+50.00	37.1	211.7	0.0	37.1	169.3
19+00.00	72.3	196.2	0.0	72.3	157.0
19+50.00	72.7	185.8	0.0	72.7	148.7
20+00.00	74.6	213.6	0.3	74.6	170.6
20+50.00	37.1	116.0	0.3	37.1	92.5
21+00.00	0.0	24.2	0.0	0.0	19.3
21+50.00	0.0	23.8	0.0	0.0	19.0
21+62.38	0.0	4.7	0.0	0.0	3.8
22+00.00	0.0	14.8	0.0	0.0	11.8
22+50.00	0.0	20.0	0.0	0.0	16.0
23+01.00	0.0	19.6	0.0	0.0	15.6
23+50.00	0.0	9.3	0.0	0.0	7.5
	504.5 *	3148.2	31.6	504.5	2487.0

* ADDITIONAL 32 CU YD OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL ALONG SCHOOL PARKING LOT.

PROSPECT STREET

STATION	REMOVAL AND DISPOSAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE
46+00.00					
46+50.00	0.0	70.0	22.8	0.0	33.2
47+00.00	0.0	63.5	24.4	0.0	26.4
47+50.00	0.0	55.8	27.0	0.0	17.6
47+88.31	0.0	49.5	10.4	0.0	29.3
48+00.00	0.0	14.0	0.7	0.0	10.5
48+50.00	0.0	36.3	30.5	0.0	-1.4
48+87.71	0.0	22.9	23.7	0.0	-5.3
49+00.00	0.0	8.3	1.5	0.0	5.1
49+05.97	0.0	4.1	1.0	0.0	2.2
49+27.16	0.0	16.3	10.8	0.0	2.2
49+48.67	0.0	16.5	12.3	0.0	0.8
49+50.00	0.0	1.1	0.5	0.0	0.4
50+50.00	0.0	50.4	16.7	0.0	23.6
50+85.63	0.0	0.0	0.0	0.0	0.0
51+00.00	0.0	0.1	0.0	0.0	0.0
51+50.00	0.0	16.3	2.0	0.0	11.0
52+00.00	0.0	37.4	1.9	0.0	28.0
52+50.00	0.0	46.4	0.0	0.0	37.1
52+73.80	0.0	26.4	0.0	0.0	21.2
53+00.00	0.0	17.5	0.1	0.0	13.8
53+50.00	0.0	2.9	0.3	0.0	2.0
	0.0	555.6	186.7	0.0	257.8

IL ROUTE 176

STATION	REMOVAL AND DISPOSAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE
100+50.00					
101+00.00	0.0	65.1	0.0	0.0	52.1
101+50.00	0.0	65.0	0.0	0.0	52.0
102+00.00	0.0	64.2	0.0	0.0	51.3
102+49.00	0.0	59.2	0.0	0.0	47.3
102+52.00	0.0	4.0	0.0	0.0	3.2
102+94.12	0.0	36.8	0.0	0.0	29.5
103+00.00	0.0	1.2	0.0	0.0	1.0
103+50.00	0.0	55.8	3.3	0.0	41.3
104+00.00	0.0	105.2	8.6	0.0	75.5
104+50.00	0.0	104.4	11.9	0.0	71.5
105+00.00	0.0	102.3	14.4	0.0	67.5
105+50.00	0.0	104.0	15.6	0.0	67.6
106+00.00	0.0	101.6	19.0	0.0	62.3
106+50.00	0.0	92.5	21.2	0.0	52.8
107+00.00	0.0	84.9	19.2	0.0	48.8
107+35.00	0.8	53.5	10.6	0.8	32.2
107+50.00	0.3	20.0	2.0	0.3	14.0
107+70.12	0.0	23.4	0.5	0.0	18.2
108+00.00	0.7	47.9	0.8	0.7	37.5
108+50.00	3.3	109.9	1.9	3.3	86.0
109+00.00	9.0	129.5	15.0	9.0	88.6
109+32.92	7.1	102.3	15.7	7.1	66.2
109+50.00	4.7	71.7	3.6	4.7	53.7
110+00.00	9.7	128.9	0.6	9.7	102.5
110+50.00	12.8	90.0	17.6	12.8	54.4
111+00.00	19.9	161.2	28.5	19.9	100.4
111+50.00	9.3	121.2	20.2	9.3	76.8
111+65.00	1.3	30.2	5.5	1.3	18.7
112+00.00	3.0	58.4	11.4	3.0	35.3
112+16.10	1.4	23.3	2.7	1.4	16.0
112+50.00	2.8	66.9	4.2	2.8	49.3
112+85.00	2.9	76.2	7.6	2.9	53.4
113+00.00	1.3	22.9	2.7	1.3	15.6
113+11.91	1.0	13.6	1.1	1.0	9.8
113+50.00	3.1	54.0	6.4	3.1	36.7
114+00.00	4.1	70.4	13.8	4.1	42.5
114+15.90	1.3	17.7	4.3	1.3	9.8
114+48.00	2.7	50.6	9.0	2.7	31.5
114+50.00	0.2	4.3	0.6	0.2	2.9
115+00.00	2.2	92.1	13.8	2.2	59.9
115+50.00	0.0	60.8	8.4	0.0	40.2
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116+00.00	0.0	32.5	0.0	0.0	26.0
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116+50.00	0.0	18.0	0.0	0.0	14.4
117+00.00	0.0	36.7	0.0	0.0	29.3
117+50.00	0.0	41.2	0.0	0.0	33.0
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 NOTE BOOK NO. DRAWING NO. CAD FILE NAME

PROF. U. E. SURVEYED PLOTTED CHECKED BY DATE
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 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
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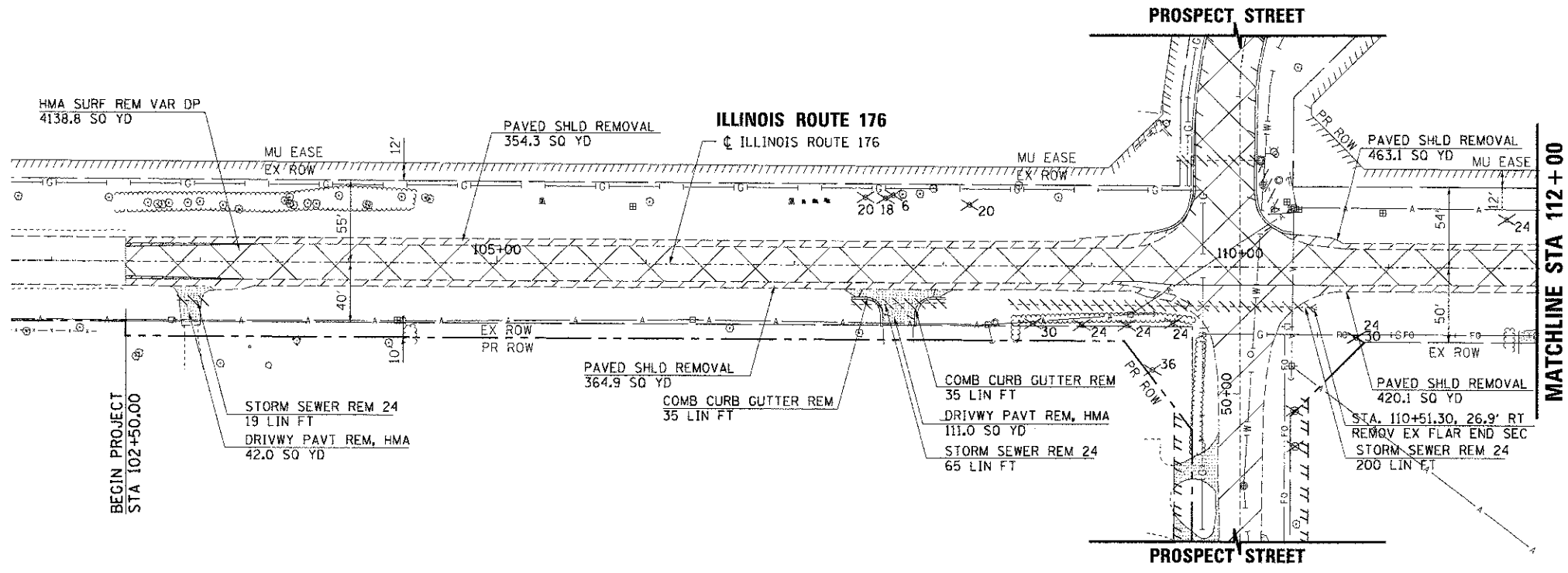
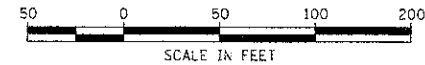
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	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

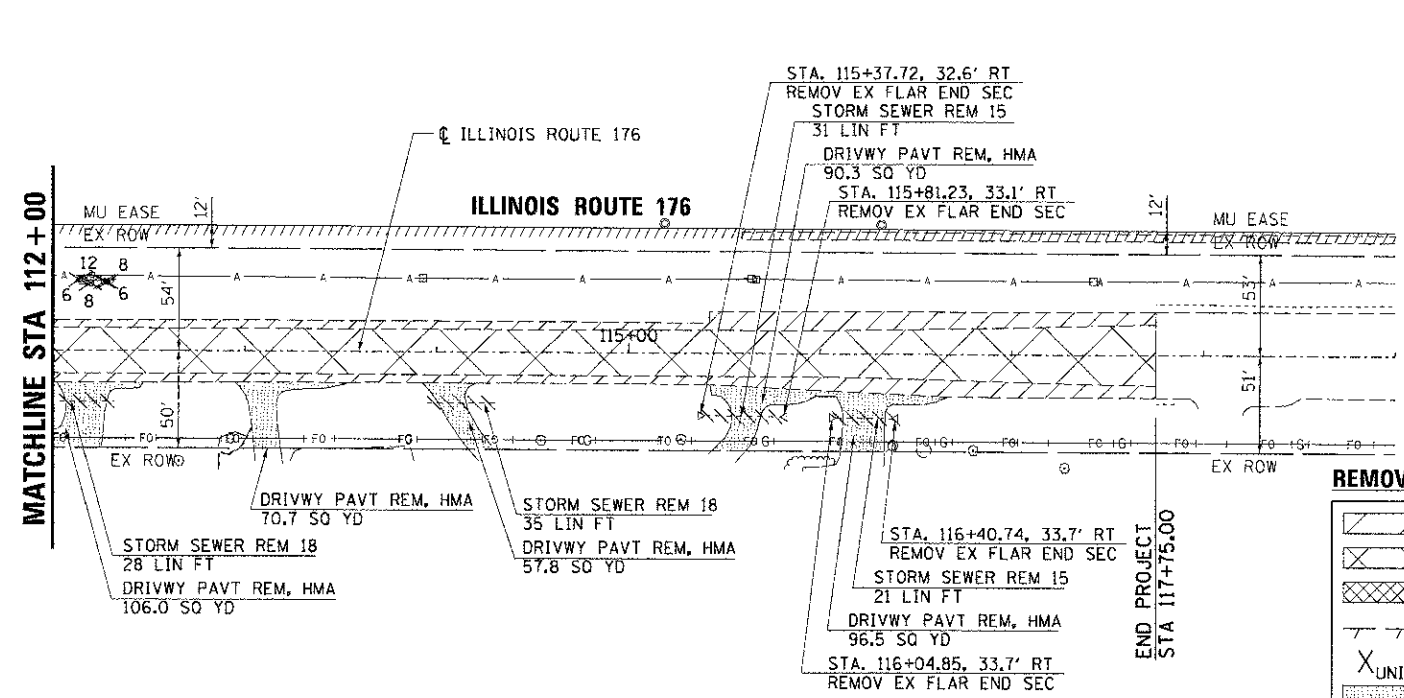
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4087	98-0024-00-WR	MCHENRY	115	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	



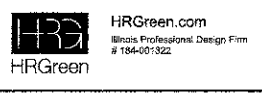
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	NOTED	
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	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS 'CPRO'	



	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL
	SIDEWALK REMOVAL
	CURB & GUTTER REMOVAL
	TREE REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	STORM SEWER/PIPE CULVERT REMOVAL
	PAVED SHOULDER REMOVAL

COMPANY NAME: HRGreen
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DRAWN	SMP
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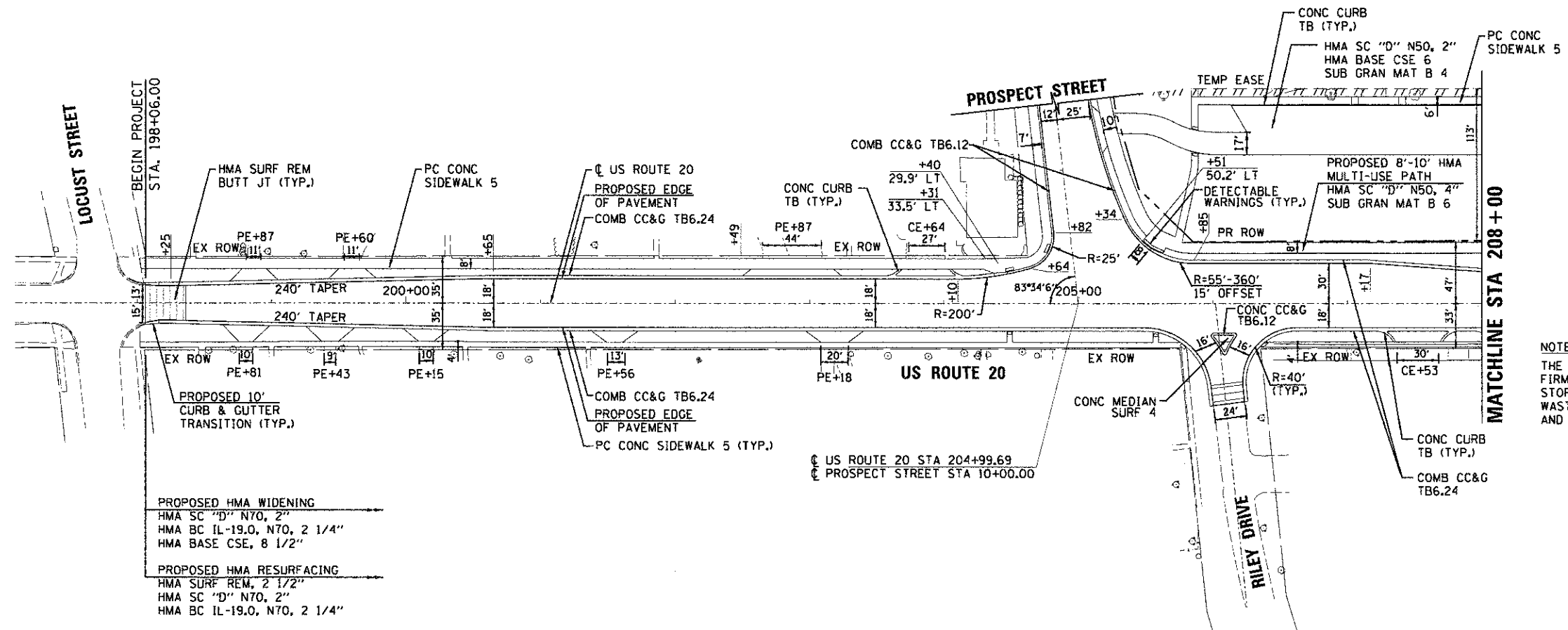
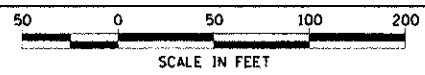
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
ILLINOIS ROUTE 176**

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. 102+50.00 TO STA. 117+75.00

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			63532	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

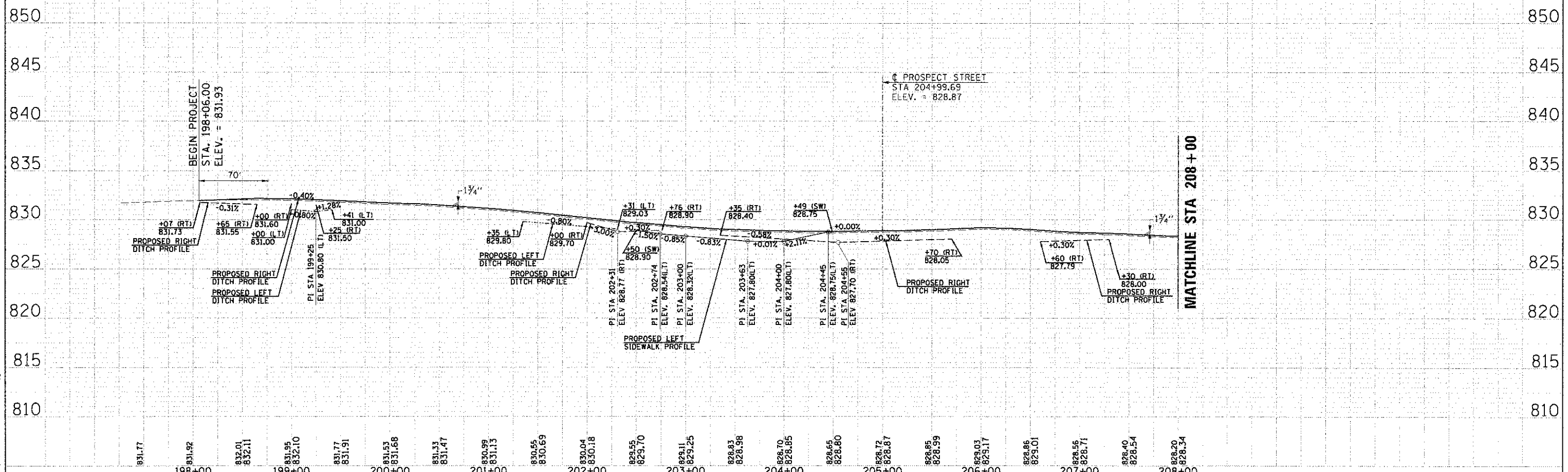


PROPOSED HMA WIDENING
 HMA SC "D" N70, 2"
 HMA BC IL-19.0, N70, 2 1/4"
 HMA BASE CSE, 8 1/2"

PROPOSED HMA RESURFACING
 HMA SURF REM, 2 1/2"
 HMA SC "D" N70, 2"
 HMA BC IL-19.0, N70, 2 1/4"

NOTE:
 THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

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	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT

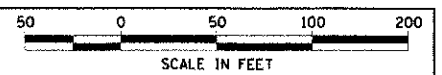


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SAVED	
REVISION	
DATE	
BY	
NO.	

PROFILE	DATE
SAVED	
REVISION	
DATE	
BY	
NO.	

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 CLIENT: [Name]
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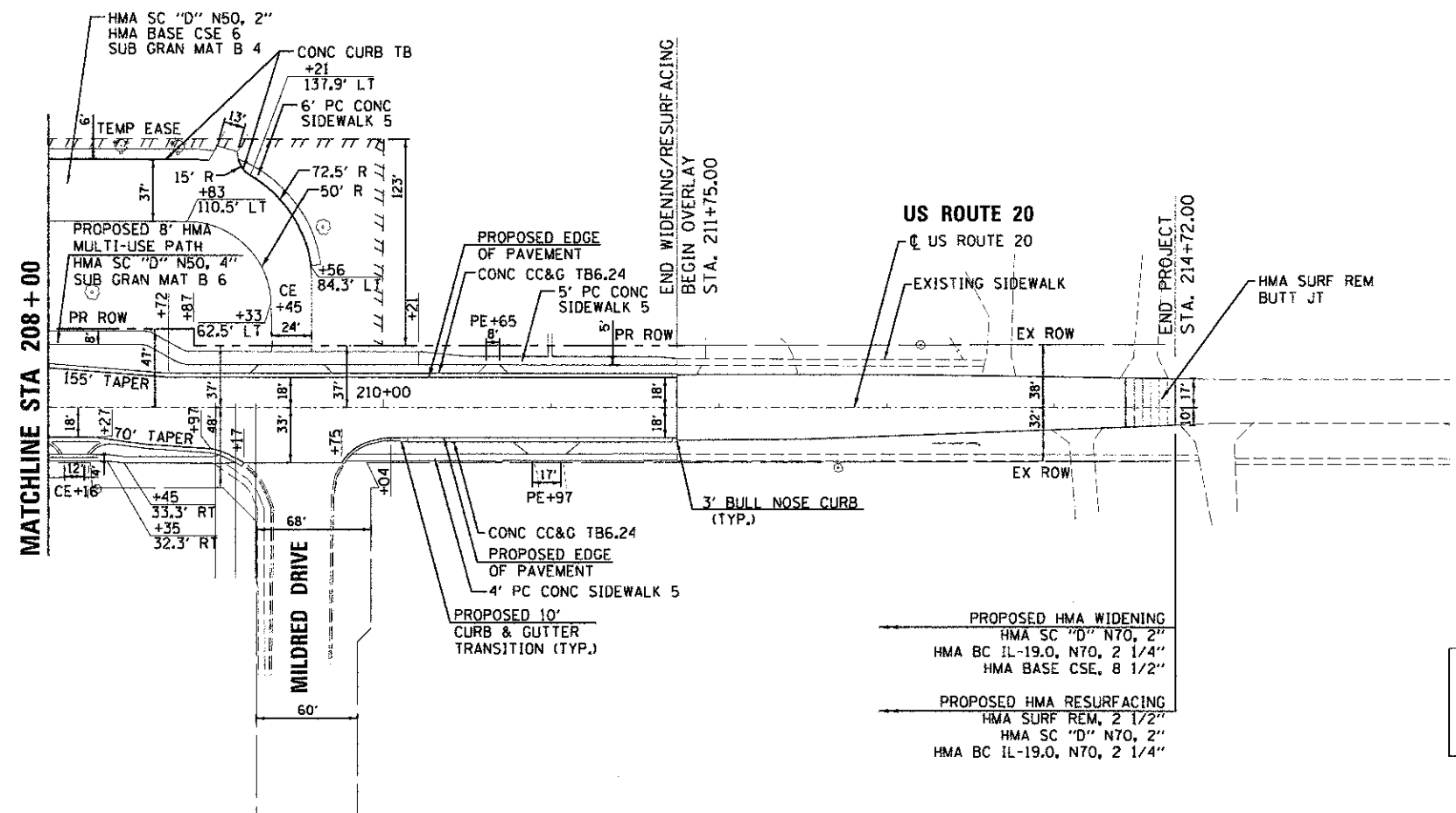
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	PLOT SCALE = 1" = 50' PLOT DATE = 3/22/2013	SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 198+06.00 TO STA. 208+00.00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	

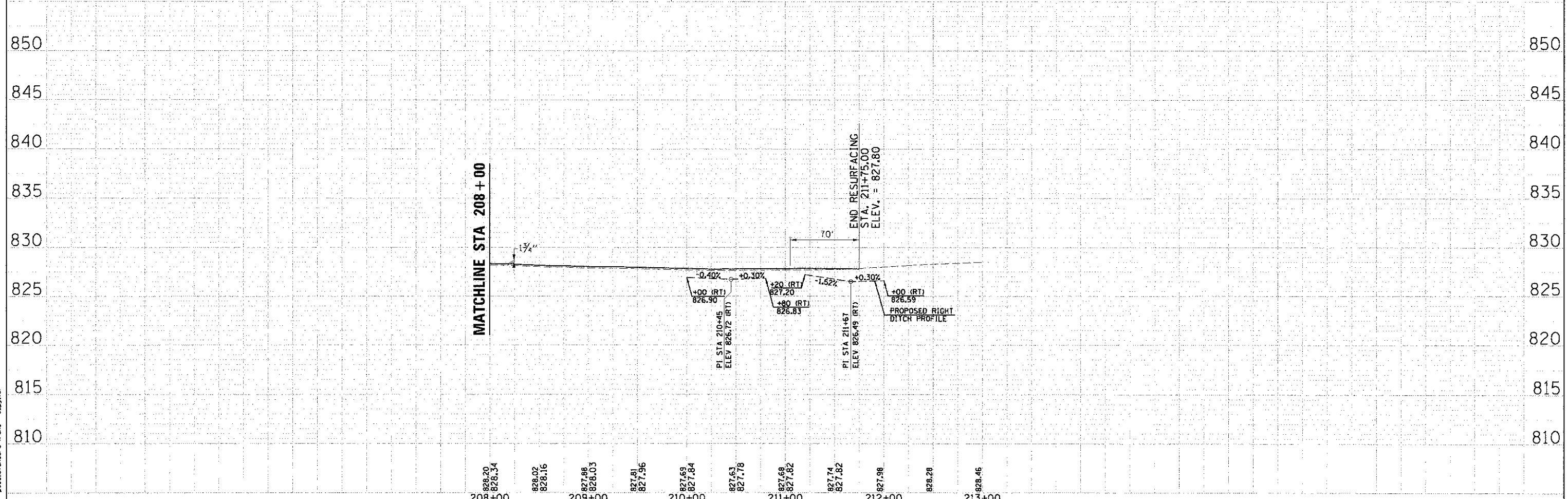
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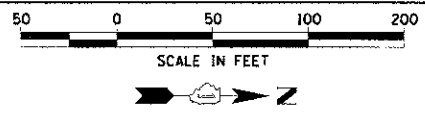


LEGEND	
---	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
- - -	PROPOSED RIGHT-OF-WAY
TT TT TT TT	PROPOSED TEMPORARY EASEMENT

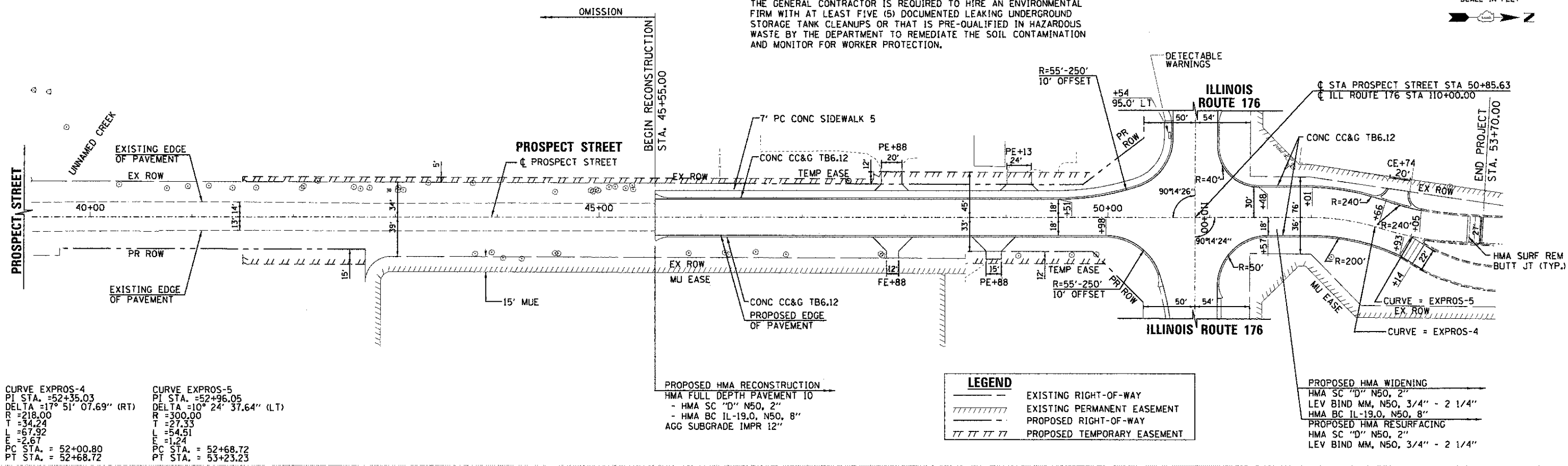
NOTE:
 THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



USER NAME = sparnel PLOT SCALE = 1" = 50' PLOT DATE = 3/22/2013	DESIGNED DCJ DRAWN SMP CHECKED - TEH DATE - 2/5/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE U.S. ROUTE 20	F.A.J. RTE. 4087 SECTION 98-0024-00-WR COUNTY MCHENRY TOTAL SHEETS 115 SHEET NO. 27 CONTRACT NO. 63532
SCALE: 1" = 50'			SHEET NO. 2 OF 6 SHEETS		STA. 208+00.00 TO STA. 211+75.00
			FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT



NOTE:
 THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



CURVE EXPROS-4
 PI STA. = 52+35.03
 DELTA = 17° 51' 07.69" (RT)
 R = 218.00
 T = 34.24
 L = 67.92
 E = 2.67
 PC STA. = 52+00.80
 PT STA. = 52+68.72

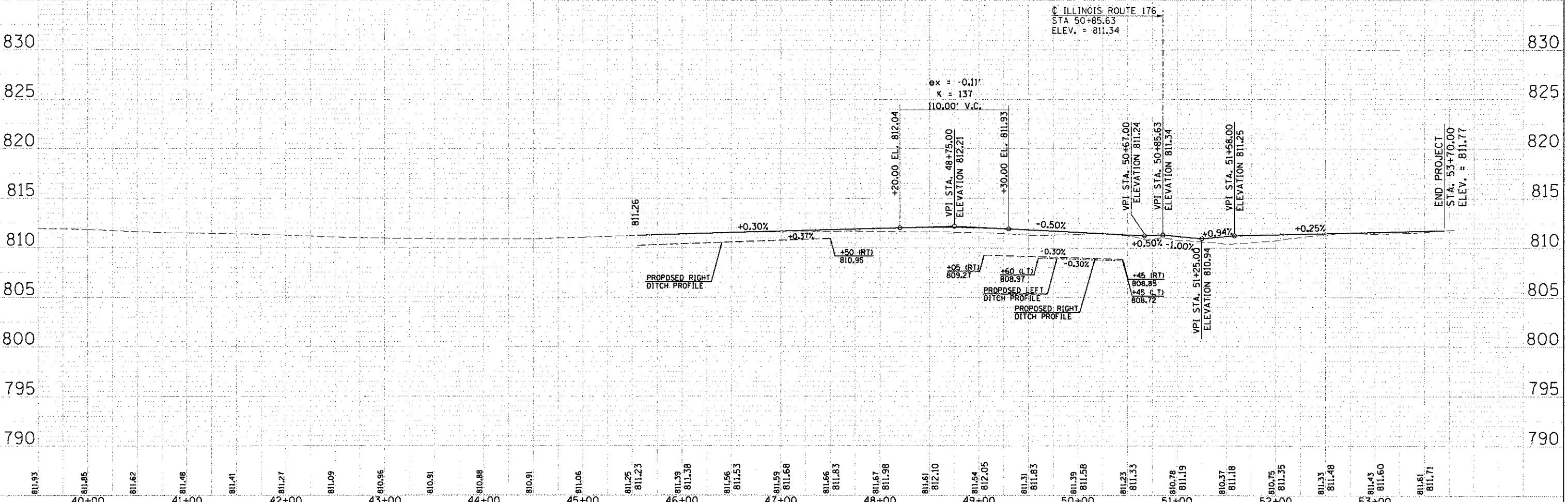
CURVE EXPROS-5
 PI STA. = 52+96.05
 DELTA = 10° 24' 37.64" (LT)
 R = 300.00
 T = 27.33
 L = 54.51
 E = 1.24
 PC STA. = 52+68.72
 PT STA. = 53+23.23

PROPOSED HMA RECONSTRUCTION
 HMA FULL DEPTH PAVEMENT 10"
 - HMA SC "D" N50, 2"
 - HMA BC IL-19.0, N50, 8"
 AGG SUBGRADE IMPR 12"

LEGEND

	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT

PROPOSED HMA WIDENING
 HMA SC "D" N50, 2"
 LEV BIND MM, N50, 3/4" - 2 1/4"
 HMA BC IL-19.0, N50, 8"
 PROPOSED HMA RESURFACING
 HMA SC "D" N50, 2"
 LEV BIND MM, N50, 3/4" - 2 1/4"



PLAN

DATE	
BY	
REVISIONS	
NO.	

DATE: 3/22/2013 10:23:44 AM
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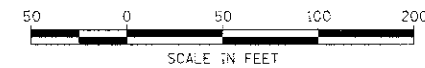
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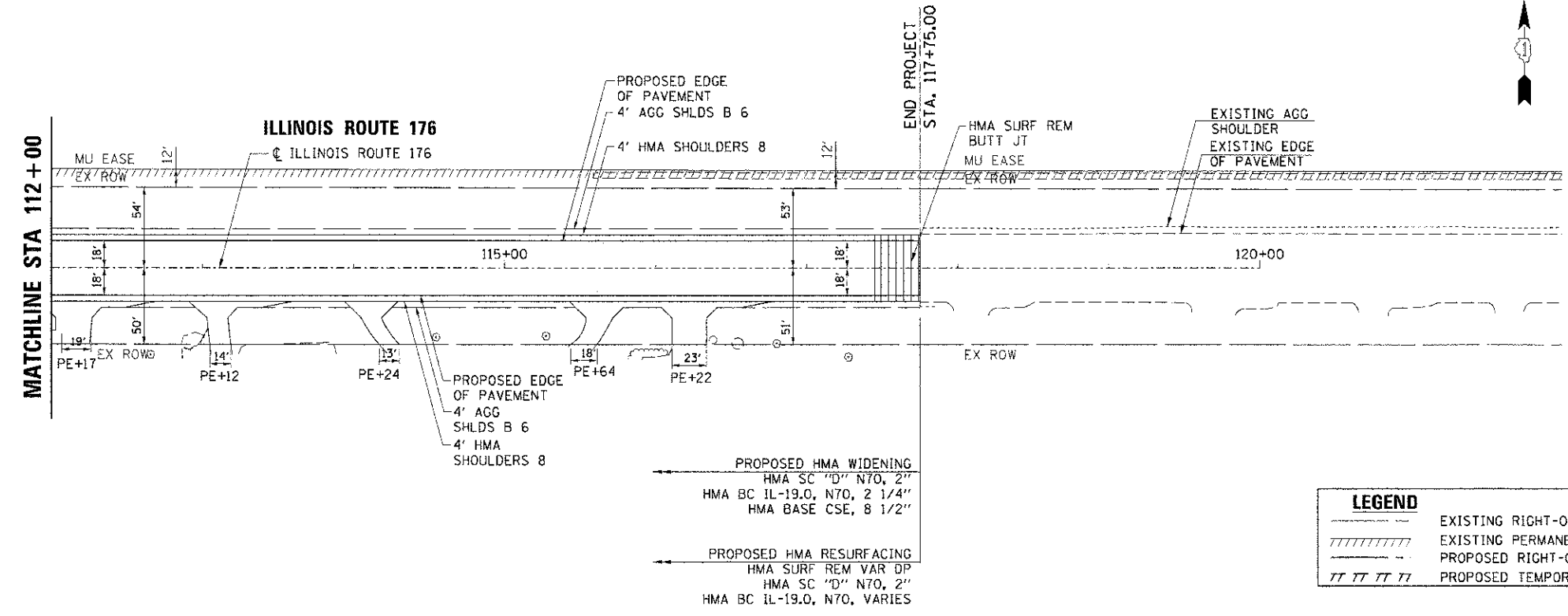
 HRGreen.com Illinois Professional Design Firm # 184-081222	USER NAME = sparnal DESIGNED DCJ DRAWN SMP CHECKED - TEH DATE - 2/5/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE PROSPECT STREET SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 41+60.00 TO STA. 53+70.00	F.A.J.I. RTE. 4087 SECTION 98-0024-00-WR COUNTY MCHENRY TOTAL SHEETS 115 SHEETS NO. 29 CONTRACT NO. 63532 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
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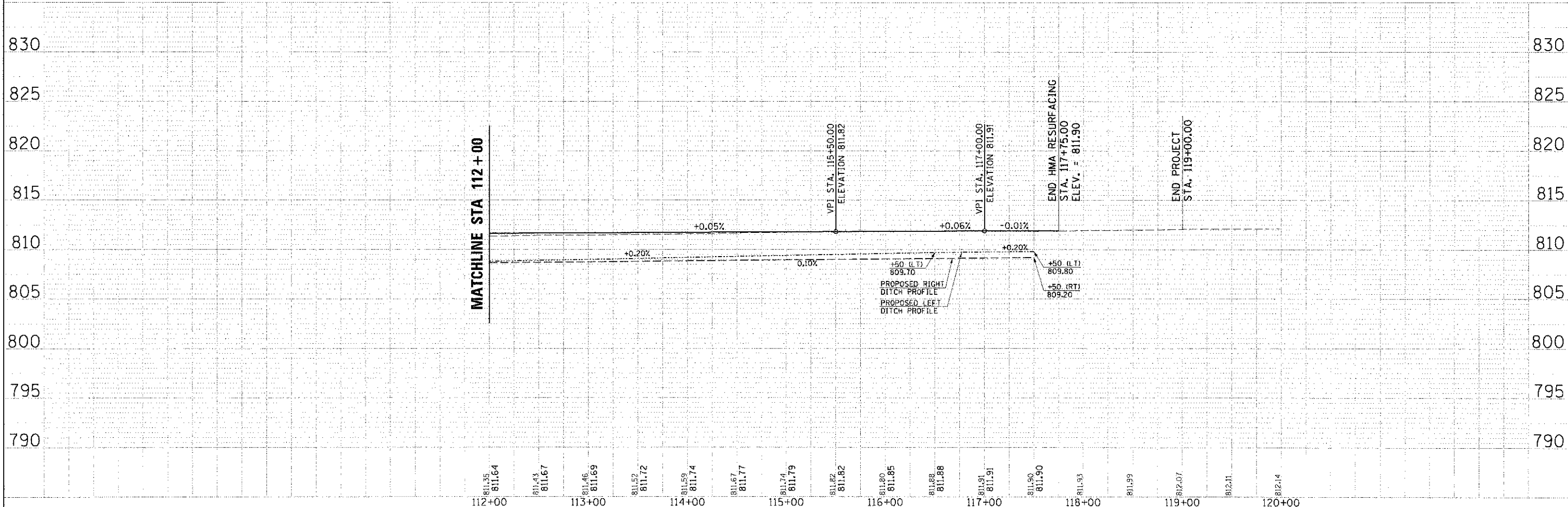
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FILE NAME	

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LEGEND	
	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT



	USER NAME = spenal PLOT SCALE = 1" = 50' PLOT DATE = 2/8/2013	DESIGNED DCJ DRAWN SMP CHECKED TEH DATE 2/5/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN AND PROFILE ILLINOIS ROUTE 176	SCALE: 1" = 50'	SHEET NO. 6 OF 6 SHEETS	STA. 112+00.00 TO STA. 117+75.00	FEDERAL DIST. NO. ILLINOIS FED. AID PROJECT
	HRGreen.com Illinois Professional Design Firm # 184-011322	TOTAL SHEETS 115 SHEET NO. 31	CONTRACT NO. 63532						

STAGE 1

1. INSTALL DETOUR SIGNAGE (SEE DETOUR PLAN) AND CLOSE SOUTHBOUND TRAFFIC ON PROSPECT STREET.
2. SHIFT ILLINOIS ROUTE 176 TRAFFIC NORTH PER STAGE 1 PLAN.
3. SHIFT U.S. ROUTE 20 TRAFFIC NORTH PER STAGE 1 PLAN.
4. SAWCUT AND REMOVE EXISTING HMA SHOULDERS ALONG THE SOUTH SIDE OF ILLINOIS ROUTE 176 WHERE APPLICABLE.
5. CONSTRUCT STORM SEWER, COMBINATION CURB AND GUTTER (OR SHOULDERS), AND HMA WIDENING ALONG THE SOUTH SIDE OF ILLINOIS ROUTE 176.
6. SAWCUT AND REMOVE EXISTING HMA SHOULDERS AND CURB & GUTTER ALONG THE SOUTH SIDE OF U.S. ROUTE 20 WHERE APPLICABLE.
7. CONSTRUCT THE STORM SEWER ALONG THE SOUTH SIDE OF U.S. ROUTE 20 AND THE EAST SIDE OF PROSPECT STREET IN ITS ENTIRETY INCLUDING THE MAINLINE FROM U.S. ROUTE 20 TO THE OUTFALL STRUCTURE ON PROSPECT STREET.
8. CONSTRUCT COMBINATION CURB AND GUTTER (OR SHOULDERS) AND HMA WIDENING ALONG THE SOUTH SIDE OF U.S. ROUTE 20.

STAGE 2

1. SHIFT ILLINOIS ROUTE 176 TRAFFIC SOUTH PER STAGE 2 PLAN.
2. SHIFT U.S. ROUTE 20 TRAFFIC SOUTH PER STAGE 2 PLAN.
3. SHIFT PROSPECT STREET TRAFFIC EAST PER STAGE 2 PLAN.
4. SAWCUT AND REMOVE EXISTING HMA SHOULDERS AND CURB AND GUTTER ALONG THE NORTH SIDE OF ILLINOIS ROUTE 176 AND U.S. ROUTE 20 WHERE APPLICABLE.
5. CONSTRUCT COMBINATION CURB AND GUTTER (OR SHOULDERS) AND HMA WIDENING ALONG THE NORTH SIDE OF U.S. ROUTE 20.
6. RECONSTRUCT THE SCHOOL ENTRANCE IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF PROSPECT STREET AND U.S. ROUTE 20.
7. CONSTRUCT COMBINATION CURB AND GUTTER (OR SHOULDERS) AND HMA WIDENING ALONG THE NORTH SIDE OF ILLINOIS ROUTE 176.
8. REMOVE EXISTING PAVEMENT AND CONSTRUCT WEST HALF OF PROSPECT STREET PER STAGE 2 PLANS.


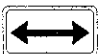

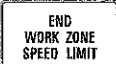

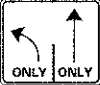









STAGE 3

1. OVERLAY U.S. ROUTE 20 AND ILLINOIS ROUTE 176 WITH PROPOSED HOT-MIX ASPHALT SURFACE COURSE IN ACCORDANCE WITH STANDARD 701306.
2. INSTALL PROPOSED TRAFFIC SIGNALS.
3. INSTALL PERMANENT STRIPING AND SIGNAGE ON ENTIRE PROJECT.
4. PERFORM FINAL GRADING AND LANDSCAPE RESTORATIONS.

SUGGESTED MAINTENANCE OF TRAFFIC – GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH, PLACE, AND MAINTAIN THREE (3) CHANGEABLE MESSAGE SIGNS. EXACT SIGN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER (SEE DETOUR MAP FOR APPROXIMATE LOCATIONS). TWO WEEKS PRIOR TO THE CONTRACTOR BEGINNING ANY WORK THE SIGNS SHALL BE ACTIVATED AND NOTE THE DATE CONSTRUCTION BEGINS AND THAT DELAYS CAN BE EXPECTED. THE SIGN MESSAGES SHALL BE MODIFIED THROUGHOUT THE PROJECT TO ALERT THE TRAVELING PUBLIC WHEN SIGNIFICANT CHANGES OCCUR (LANE CLOSURES, NEW LANE CONFIGURATION, ETC.).
2. A MINIMUM OF ONE THROUGH LANE IN EACH DIRECTION SHALL REMAIN OPEN ON ILLINOIS ROUTE 176 AND U.S. ROUTE 20 AT ALL TIMES, EXCEPT FOR PERIODS OF SHORT DURATION DURING MILLING AND RESURFACING OPERATIONS OR AS DIRECTED BY THE ENGINEER. TEMPORARY TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
3. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR PERIODS OF SHORT DURATION AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS A MINIMUM OF 48 HOURS PRIOR TO ANY ACCESS RESTRICTIONS OR CLOSURES. CONSTRUCTION ADJACENT TO AN ENTRANCE, RESULTING IN A TEMPORARY CLOSURE TO THE ENTRANCE, SHALL BE EXPEDITED AND THE ENTRANCE REOPENED TO TRAFFIC AS SOON AS POSSIBLE. DURING THE TEMPORARY CLOSURE, THE CONTRACTOR SHALL PROVIDE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS AT THE LOCATIONS DESIGNATED BY THE ENGINEER. TEMPORARY CLOSURES AT ENTRANCES WILL NOT BE PERMITTED DURING THE WEEKEND.
4. WORK ZONE PAVEMENT MARKING FOR THE MAINTENANCE OF TRAFFIC SHALL CONSIST OF WET TEMPORARY PAVEMENT MARKING TAPE, TYPE III.
5. EXISTING OR PROPOSED TRAFFIC SIGNS CONFLICTING WITH THE TEMPORARY TRAFFIC CONTROL SHALL BE TEMPORARILY REMOVED OR COVERED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION.
6. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH MOT PLAN SHALL BE REMOVED AND REPLACED IN KIND. THIS WORK SHALL NOT BE FOR SEPARATELY ARE INCLUDED IN THE QUANTITIES OF "SHORT TERM PAVEMENT MARKINGS" AND "THERMOPLASTIC PAVEMENT MARKINGS".
7. RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH TEMPORARY STRIPING SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "RAISED REFLECTIVE PAVEMENT MARKER REMOVAL", EACH.

SUGGESTED MAINTENANCE OF TRAFFIC – SIGN LEGEND:

 W20-1(0)-48	 M6-4(0)-2115	 R1-1-3030	 G20-1103(0)-3660
 W20-3(0)-48	 R3-8L-3030	 R3-8R-3030	 R11-2-4830
	 W2-1-1115(0)-3618	 R3-1-3030	 R4-8a-2430
	 R2-1-3648	 R5-1-3030	
	 R10-19op-3618		
	 R2-1106-3618		

DATE	BY
DATE	BY
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DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY

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 CLIENT: HRGreen.com
 DATE PLOTTED: 2/8/2013 10:06:57 PM
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HRGreen
 HRGreen.com
 #100 Professional Design Firm
 # 634-001322

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
GENERAL NOTES

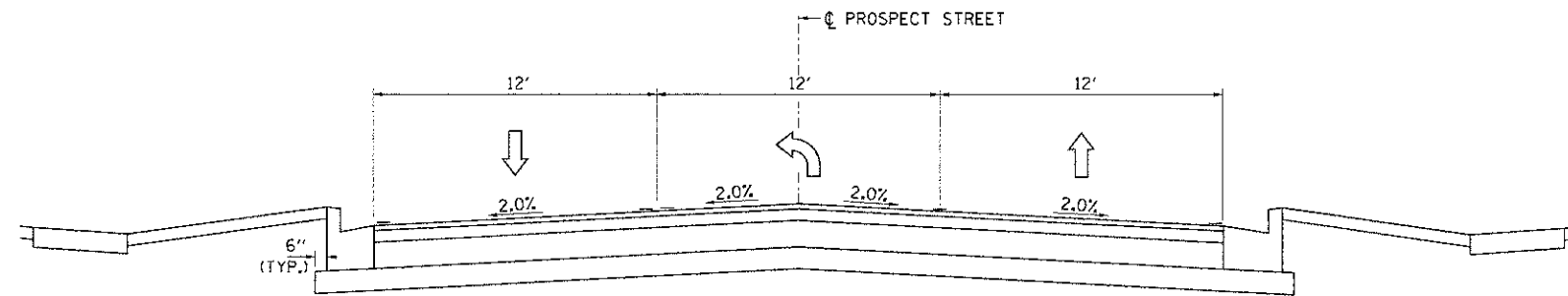
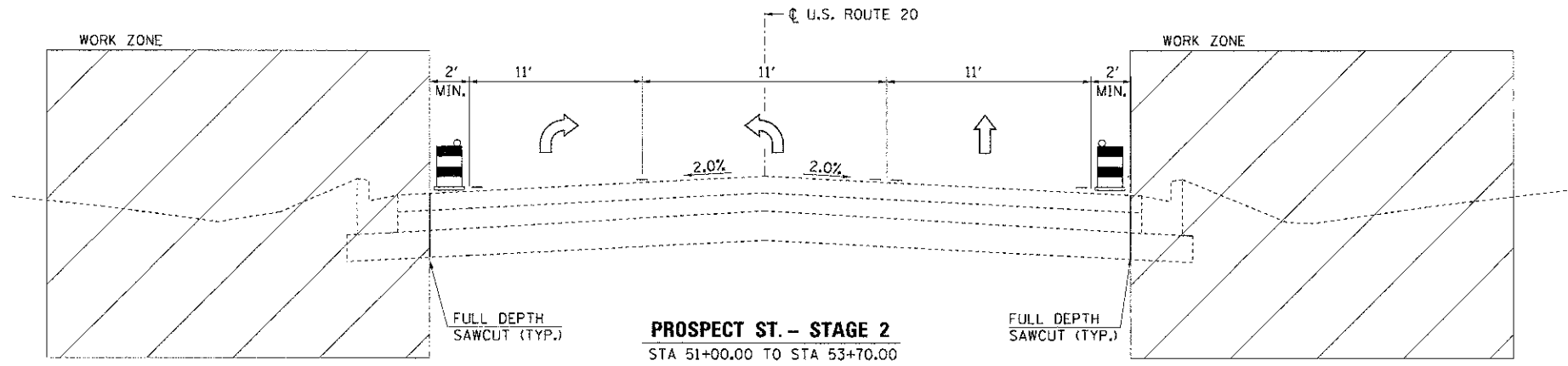
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

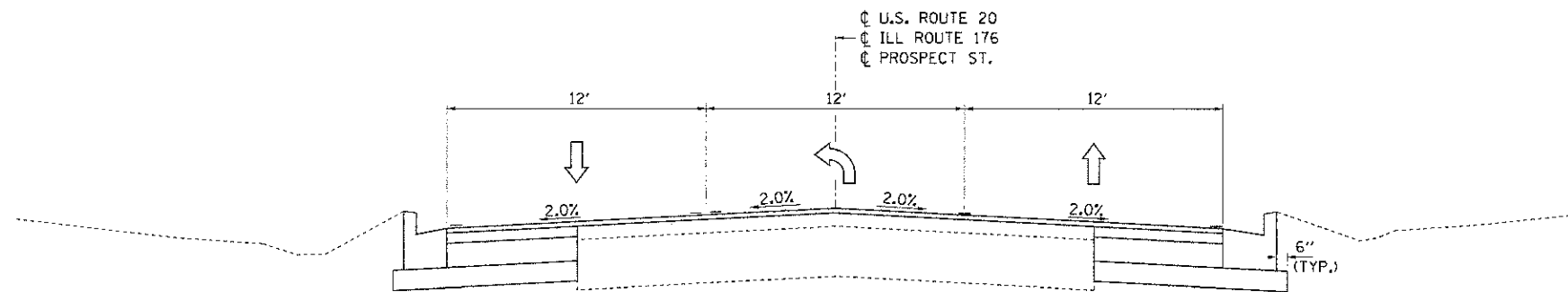
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DATE	
BY	
PROFILE	
NOTE BOOK	
NO.	
REVISIONS	
DESCRIPTION	
DATE	

COMPANY NAME
 PROJECT CONTACT
 CLIENT
 DATE PLOTTED: 2/8/2013 10:01:13 PM
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PROSPECT STREET - STAGE 3
STA 10+00.00 TO STA 53+70.00



U.S. ROUTE 20 - STAGE 3
STA 198+06.00 TO STA 213+00.00
ILL ROUTE 176 - STAGE 3
STA 102+50.00 TO STA 117+75.00
PROSPECT ST. - STAGE 3
STA 51+00.00 TO STA 53+70.00



USER NAME = spernel	DESIGNED DCJ	REVISED -
	DRAWN SMP	REVISED -
PLGT SCALE = N/A	CHECKED - TEH	REVISED -
PLST DATE = 2/8/2013	DATE - 2/5/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 3
TYPICAL SECTIONS**

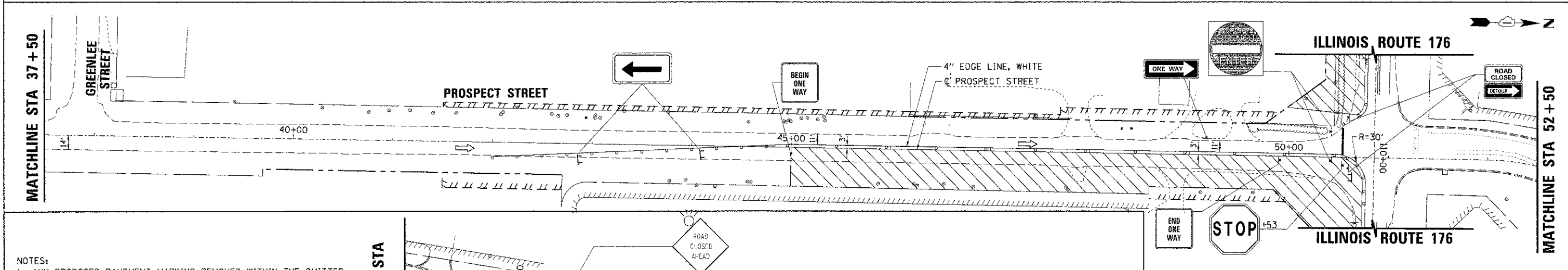
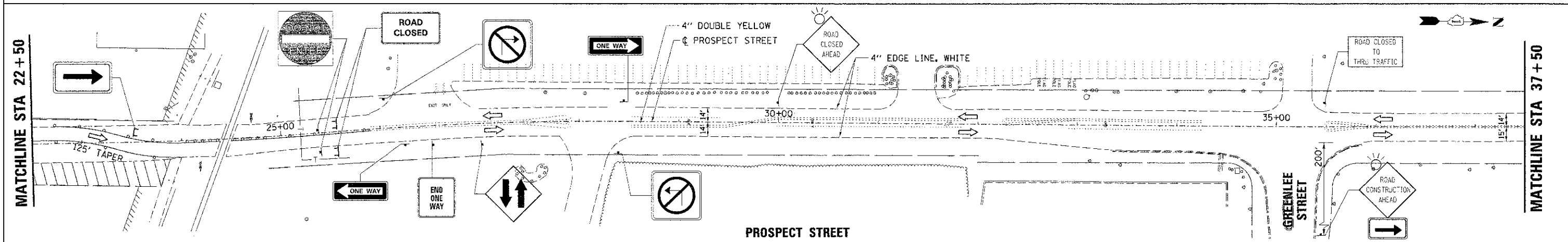
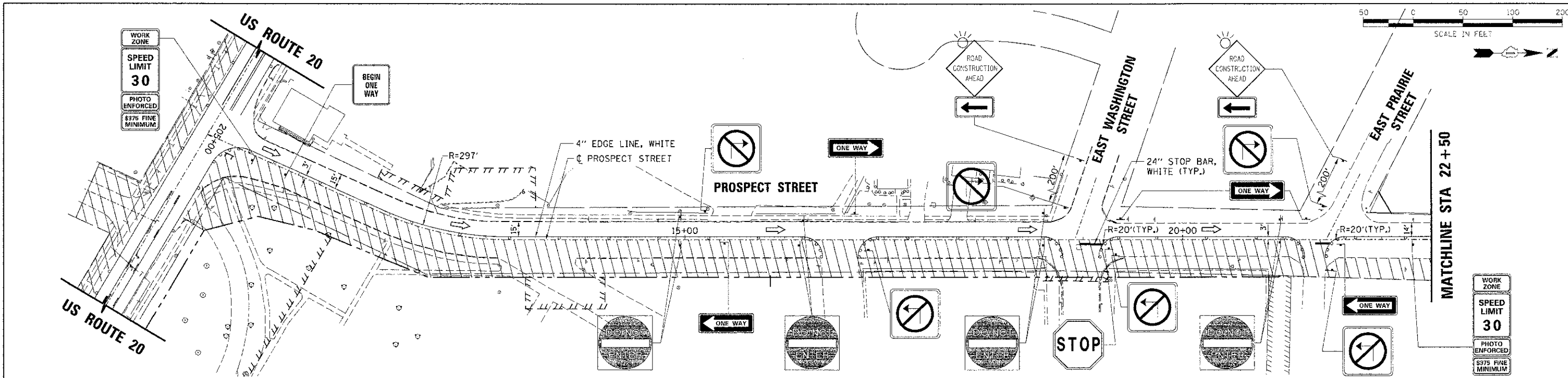
SCALE: N/A SHEET NO. 4 OF 10 SHEETS STA. TO STA.

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#087	98-0024-00-WR	MCHENRY	115	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63532	

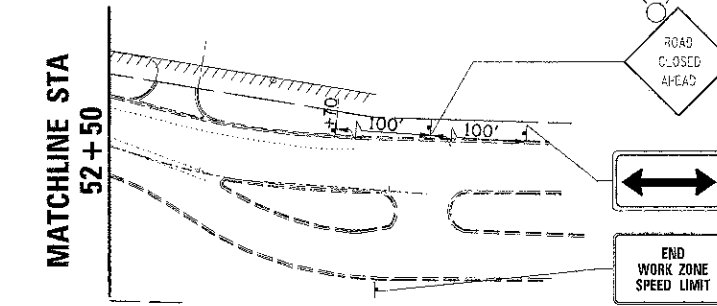
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NOTES:
 1. ANY PROPOSED PAVEMENT MARKING REMOVED WITHIN THE OMITTED AREA OF THE PROJECT (STA 23+85.20 TO STA 45+55.00) SHALL BE REPLACED BY THE CONTRACTOR DURING FINAL PAVEMENT MARKING INSTALLATION.
 2. TWO-WAY TRAFFIC SHALL BE MAINTAINED FOR BUSINESSES ON PROSPECT STREET FROM STA. 26+00 TO STA. 38+00.



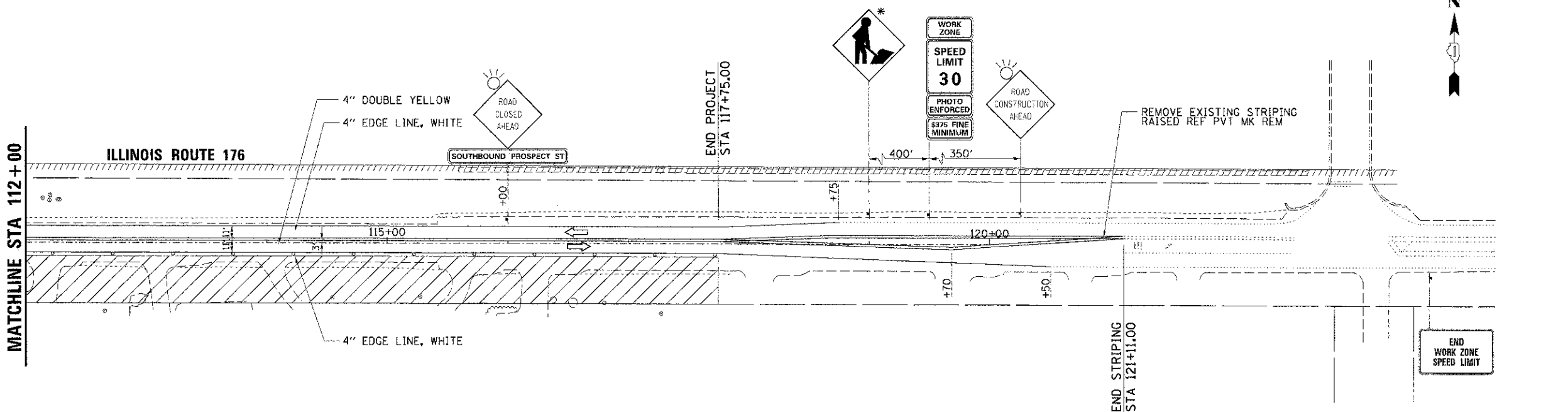
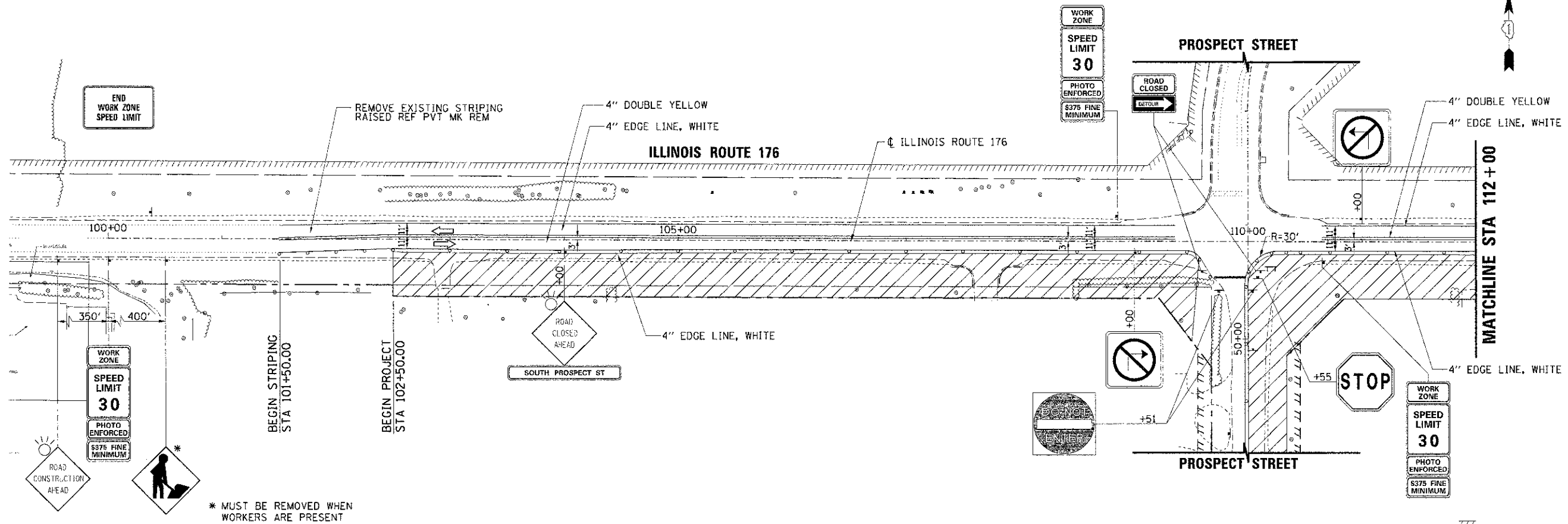
LEGEND

WORK ZONE AREA	PROVIDE 10' GAPS IN CURB & GUTTER FOR DRAINAGE
DRUM OR BARRICADE WITH STEADY BI-DIRECTIONAL LIGHT *	* DRUM OR BARRICADE SPACING: 50' C-C TANGENTS 20' C-C TAPERS OR LANE SHIFTS 25' C-C RADII
SIGN ON PORTABLE OR PERMANENT SUPPORT	
TYPE III BARRICADES WITH TWO (2) FLASHING LIGHTS	

PLAN	DATE
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DESCRIPTION	
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PROFILE	DATE
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COMPANY NAME: HRGreen
 PROJECT CONTACT: [Redacted]
 CLIENT: [Redacted]
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 PLOT NUMBER: pcf_jy.cpl
 PEN TABLE: standard-trans.tbl



LEGEND

	WORK ZONE AREA		PROVIDE 10' GAPS IN CURB & GUTTER FOR DRAINAGE
	DRUM OR BARRICADE WITH STEADY BI-DIRECTIONAL LIGHT *		* DRUM OR BARRICADE SPACING: 50' C-C TANGENTS 20' C-C TAPERS OR LANE SHIFTS 25' C-C RADI!
	SIGN ON PORTABLE OR PERMANENT SUPPORT		
	TYPE III BARRICADES WITH TWO (2) FLASHING LIGHTS		

USER NAME = sperral	DESIGNED DCJ	REVISED -
PLOT SCALE = 1" = 50'	DRAWN SMP	REVISED -
PLOT DATE = 2/5/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 1
ILLINOIS ROUTE 176

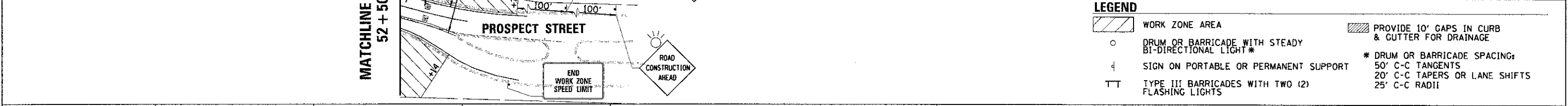
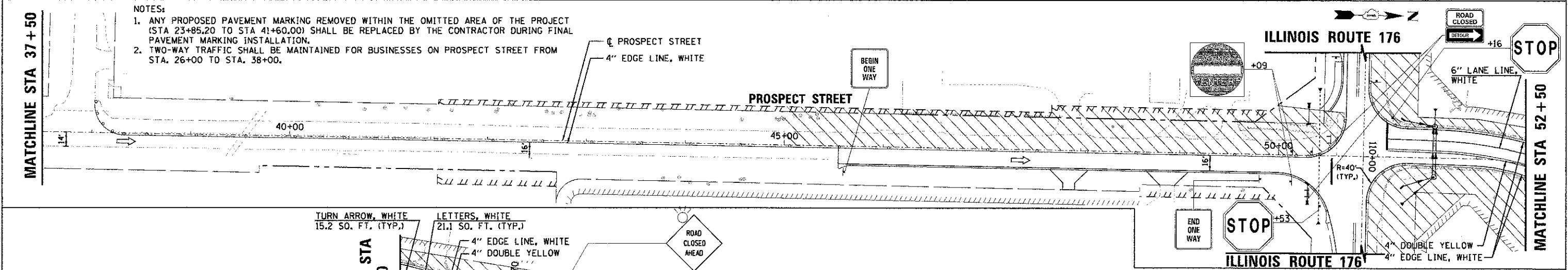
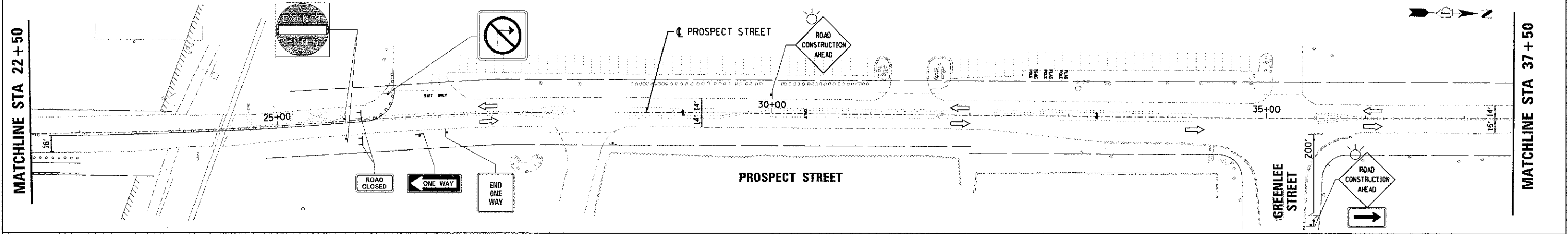
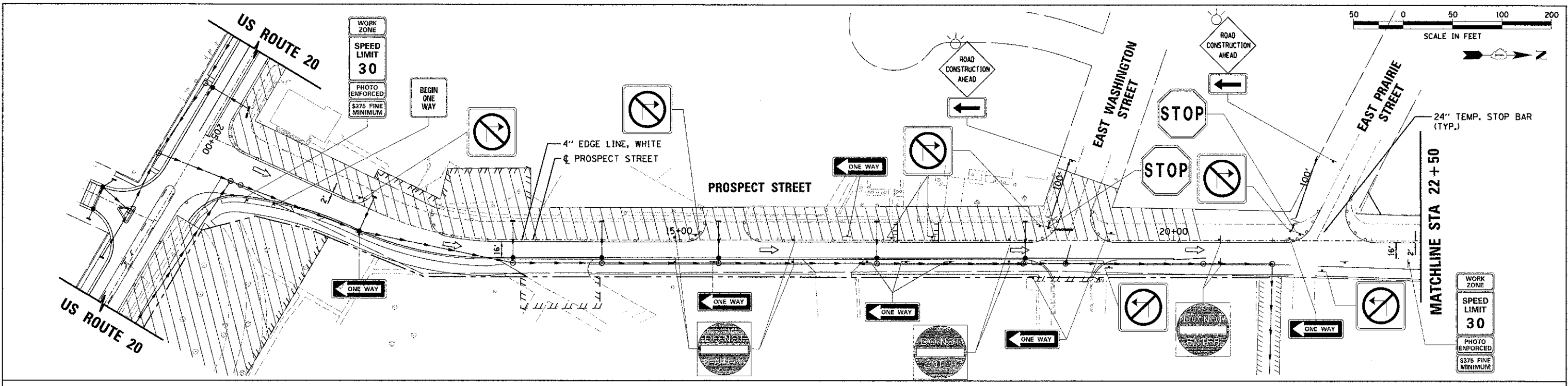
SCALE: 1" = 50' SHEET NO. 7 OF 10 SHEETS STA. 102+50.00 TO STA. 117+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-0024-00-WR	MCHENRY	115 / 38
CONTRACT NO.			63532
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

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COMPANY NAME:
 PROJECT CONTACT:
 CLIENT:
 DATE PLOTTED:
 FILE NAME:
 PLOT DRIVER:
 PEN TABLE:



USER NAME = spornel	DESIGNED DCJ	REVISED -
PLOT SCALE = 1" = 50'	DRAWN SMP	REVISED -
PLOT DATE = 3/22/2013	CHECKED - TEH	REVISED -
	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 2
 PROSPECT STREET

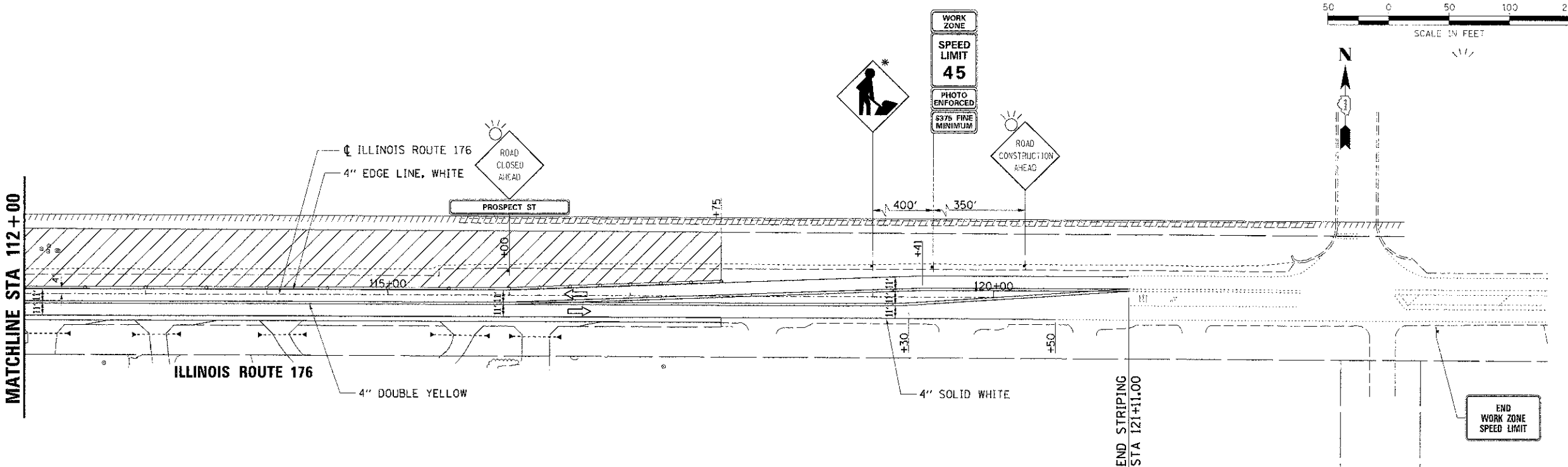
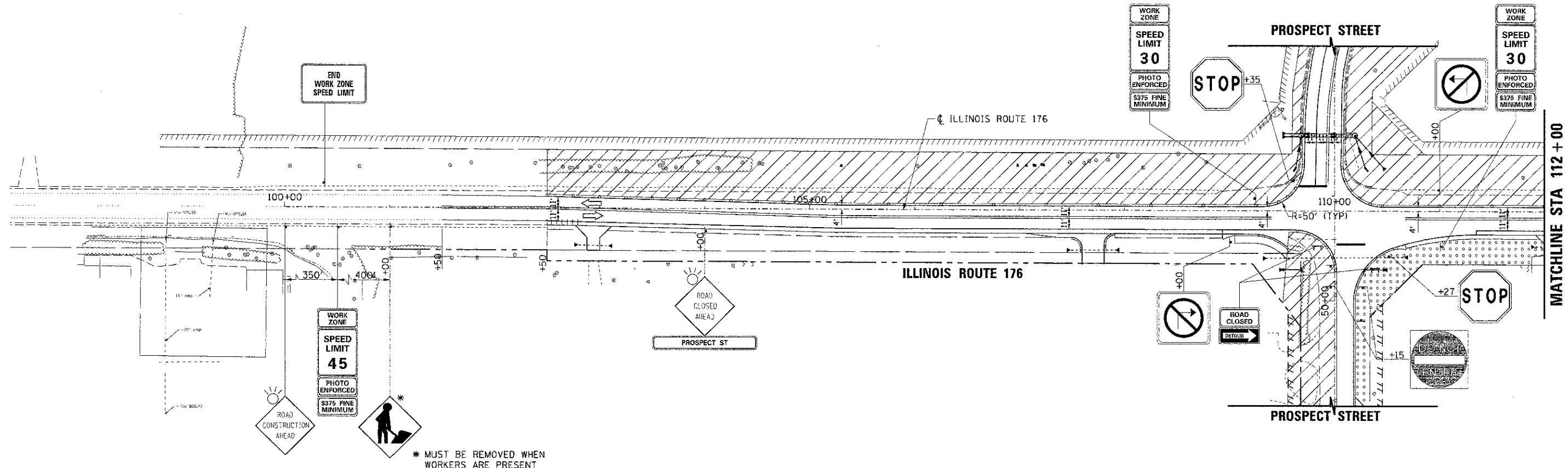
SCALE: 1" = 50' SHEET NO. 9 OF 10 SHEETS STA. 10+00.00 TO STA. 53+70.00

F.A.D. RTE. 4087	SECTION 9B-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

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COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/8/2013 10:02:18 AM
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 PRINT SCALE: 1" = 50'
 PRINT DATE: 2/8/2013



LEGEND

WORK ZONE AREA	PROVIDE 10' GAPS IN CURB & GUTTER FOR DRAINAGE
DRUM OR BARRICADE WITH STEADY BI-DIRECTIONAL LIGHT *	* DRUM OR BARRICADE SPACING: 50' C-C TANGENTS 20' C-C TAPERS OR LANE SHIFTS 25' C-C RADII
SIGN ON PORTABLE OR PERMANENT SUPPORT	
TYPE III BARRICADES WITH TWO (2) FLASHING LIGHTS	

USER NAME = sperral	DESIGNED DCJ	REVISED -
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	CHECKED TEH	REVISED -
	DATE 2/5/13	REVISED -

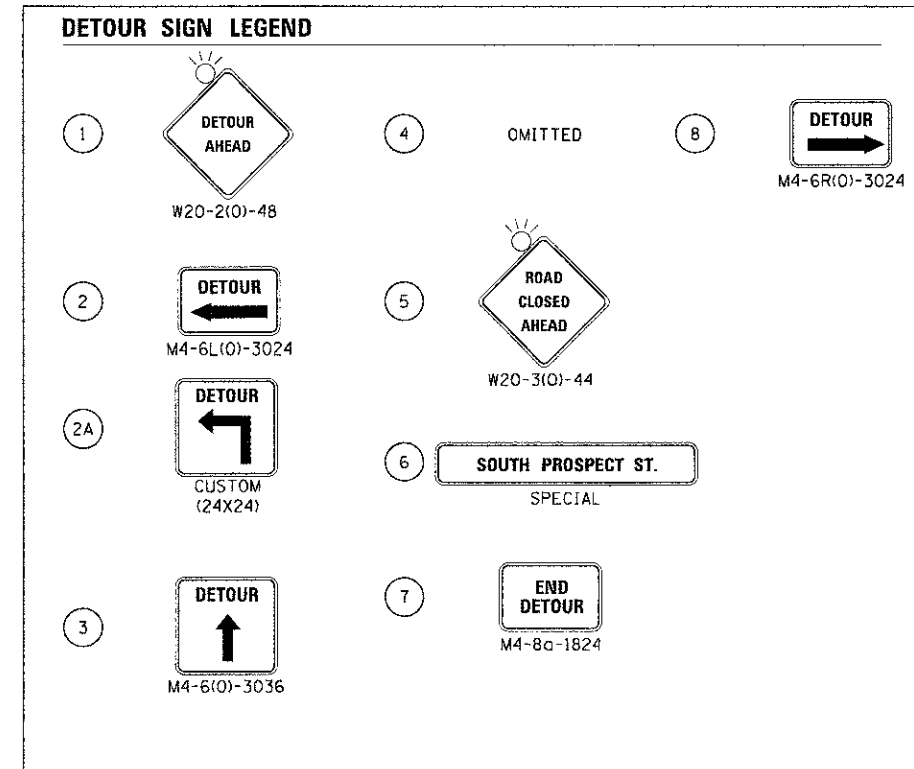
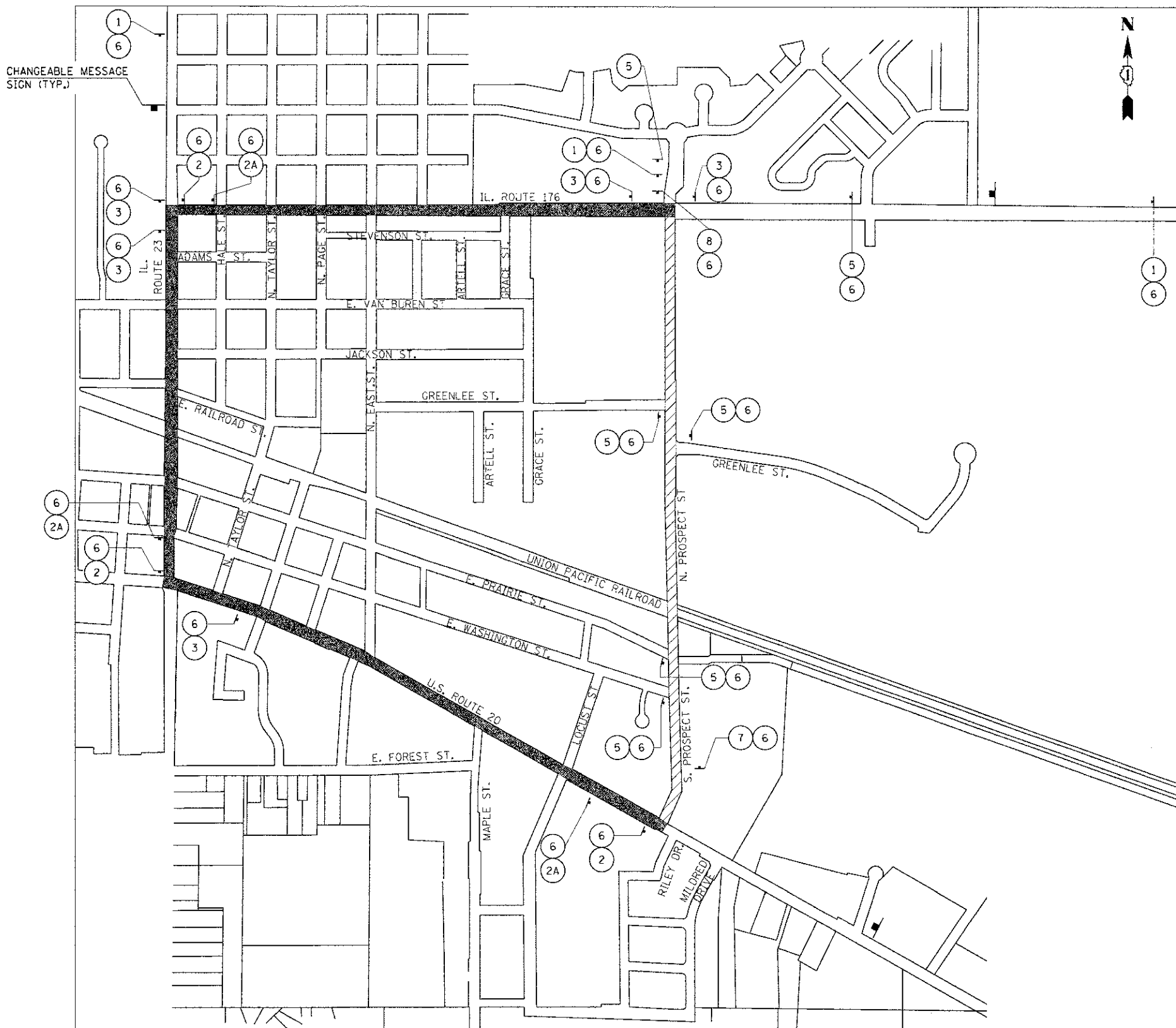
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 2
ILLINOIS ROUTE 176**

SCALE: 1" = 50' SHEET NO. 10 OF 10 SHEETS STA. 102+50.00 TO STA. 117+75.00

F.A.I.L. RTE. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

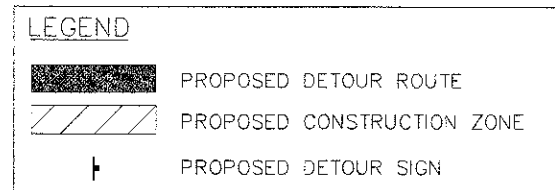
DETOUR MAP



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COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: Illinois Professional Design Firm
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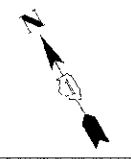
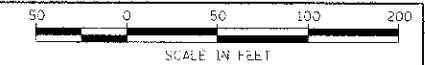
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DATE PLOTTED	2/8/2013	DRAWN	SMP	REVISED	-
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

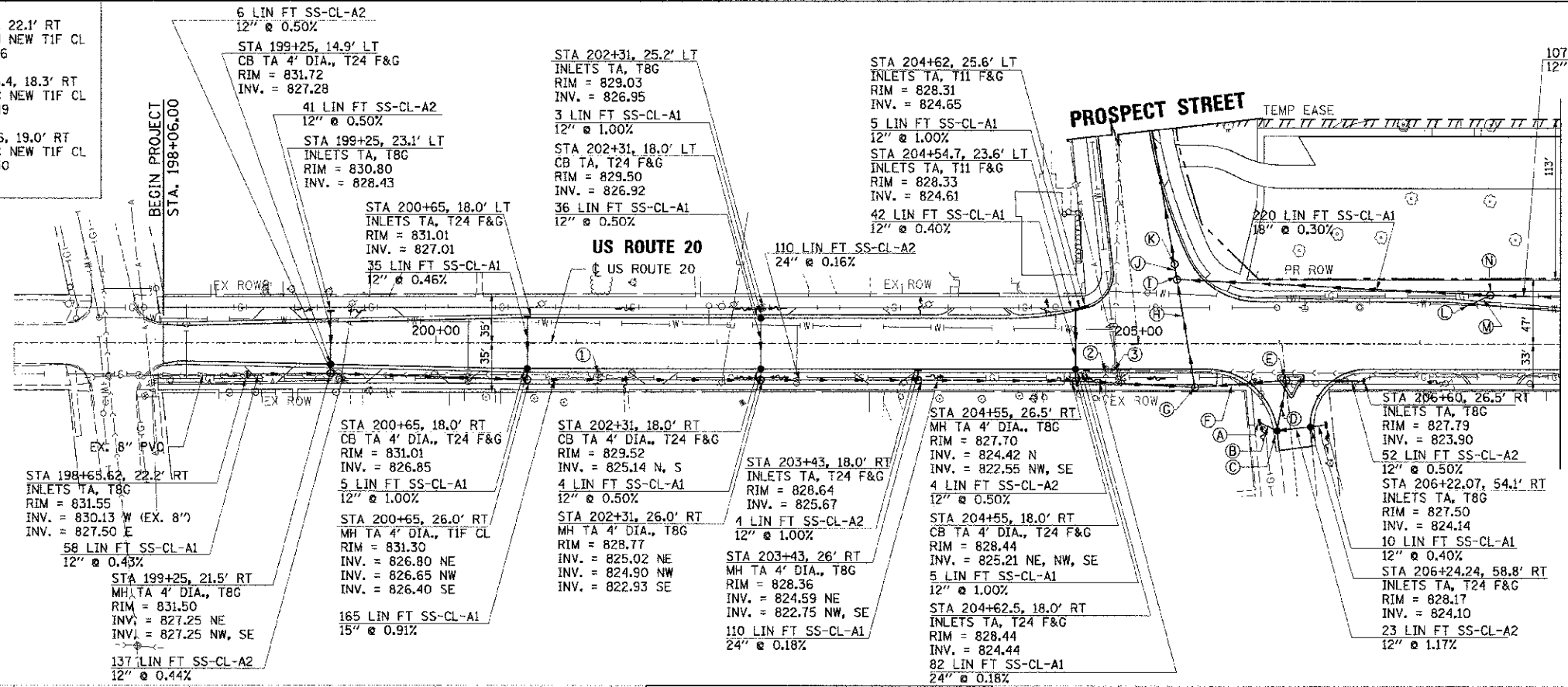
DETOUR PLAN

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-0024-00-WR	MCHENRY	115	42
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63532	

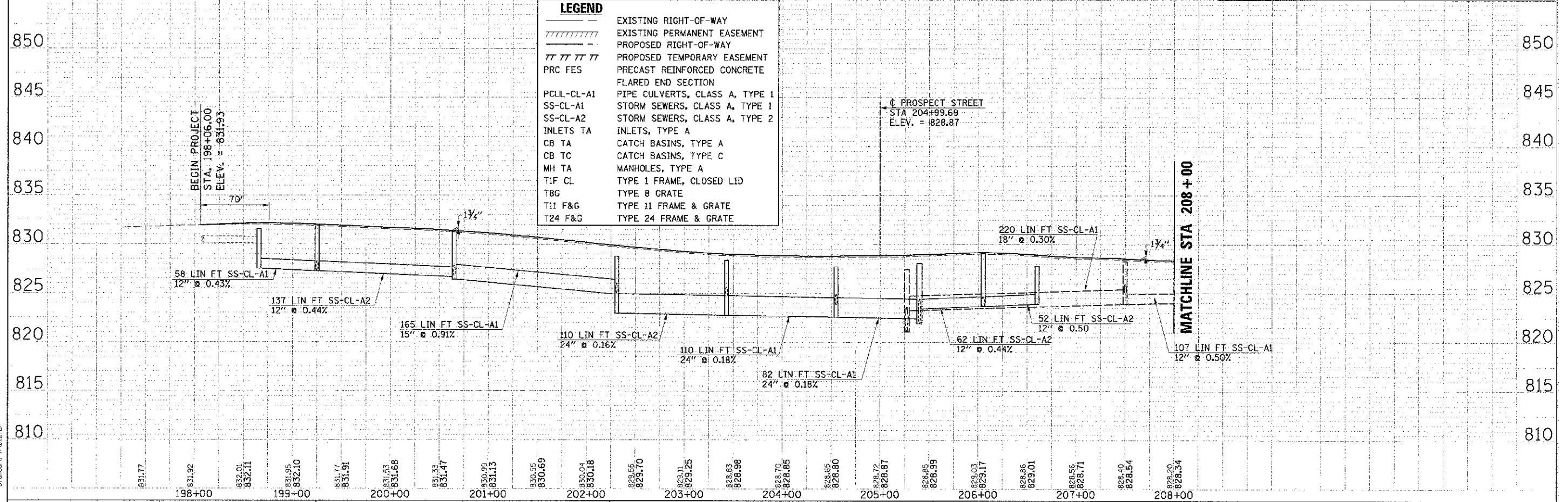


- 1 STA 201+15, 22.1' RT
SAN MH ADJ NEW TIF CL
RIM = 831.06
- 2 STA 204+46.4, 18.3' RT
SAN MH REC NEW TIF CL
RIM = 828.49
- 3 STA 20482.6, 19.0' RT
SAN MH REC NEW TIF CL
RIM = 828.50



- | | |
|---|---|
| A STA 205+86, 56' RT
INLETS TA, T8G
RIM = 827.50
INV. = 823.89 | H 74 LIN FT SS-CL-A2
30" @ 0.20% |
| B 12 LIN FT SS-CL-A1
12" @ 0.50% | I STA 205+27, 45.9' LT
MH TA 5' DIA., TIF CL
RIM = 827.44
INV. = 823.23 SE
INV. = 821.85 S
INV. = 821.07 NE |
| C STA 205+98, 62' RT
CB TA 4' DIA., T24 F&G
RIM = 828.22
INV. = 823.83 NW, E, NE | J 7 LIN FT SS-CL-A2
30" @ 1.00% |
| D 35 LIN FT SS-CL-A2
12" @ 0.46% | K STA 205+25, 56.8' LT
PR RESTRICTOR STRUCTURE
(SEE DETAIL)
RIM = 827.23
INV. = 821.00 SW, NE
12" ORIFICE @ INV. = 821.00
TOP OF PLATE ELEV. = 823.40
REOD. 10-YR STORAGE = 2,260 CU FT
PROV. 10-YR STORAGE = 2,728 CU FT |
| E STA 206+05, 26' RT
MH TA 4' DIA., TIF CL
RIM = 829.10
INV. = 823.67 W, E, SW | L STA 207+37, 36.8' LT
INLETS TA, T24 F&G
RIM = 828.04
INV. = 825.04 |
| F 62 LIN FT SS-CL-A2
12" @ 0.44% | M 13 LIN FT SS-CL-A1
12" @ 1.00% |
| G STA 205+40, 31' RT
MH TA 5' DIA., TIF CL
(TIF CL TO MEET
ADA REQUIREMENTS)
RIM = 826.05
INV. = 822.40 NW
INV. = 823.40 SE
INV. = 822.00 NE | N STA 207+50, 34.8' LT
MH TA 4' DIA., TIF CL
RIM = 828.28
INV. = 824.93 W
INV. = 823.89 SE, NW |

LEGEND	
---	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
- - - -	PROPOSED RIGHT-OF-WAY
///	PROPOSED TEMPORARY EASEMENT
PRC FES	PRECAST REINFORCED CONCRETE FLARED END SECTION
PCUL-CL-A1	PIPE CULVERTS, CLASS A, TYPE 1
SS-CL-A1	STORM SEWERS, CLASS A, TYPE 1
SS-CL-A2	STORM SEWERS, CLASS A, TYPE 2
INLETS TA	INLETS, TYPE A
CB TA	CATCH BASINS, TYPE A
CB TC	CATCH BASINS, TYPE C
MH TA	MANHOLES, TYPE A
TIF CL	TYPE 1 FRAME, CLOSED LID
T8G	TYPE 8 GRATE
T11 F&G	TYPE 11 FRAME & GRATE
T24 F&G	TYPE 24 FRAME & GRATE



DATE	BY	REVISION

DATE	BY	REVISION

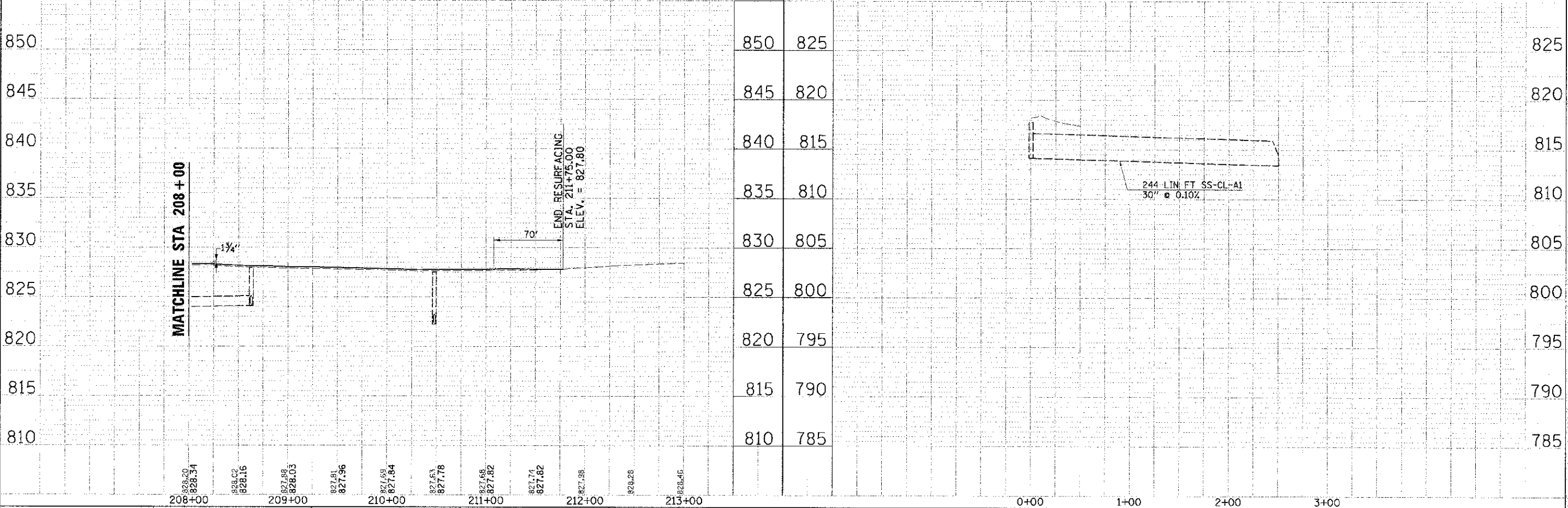
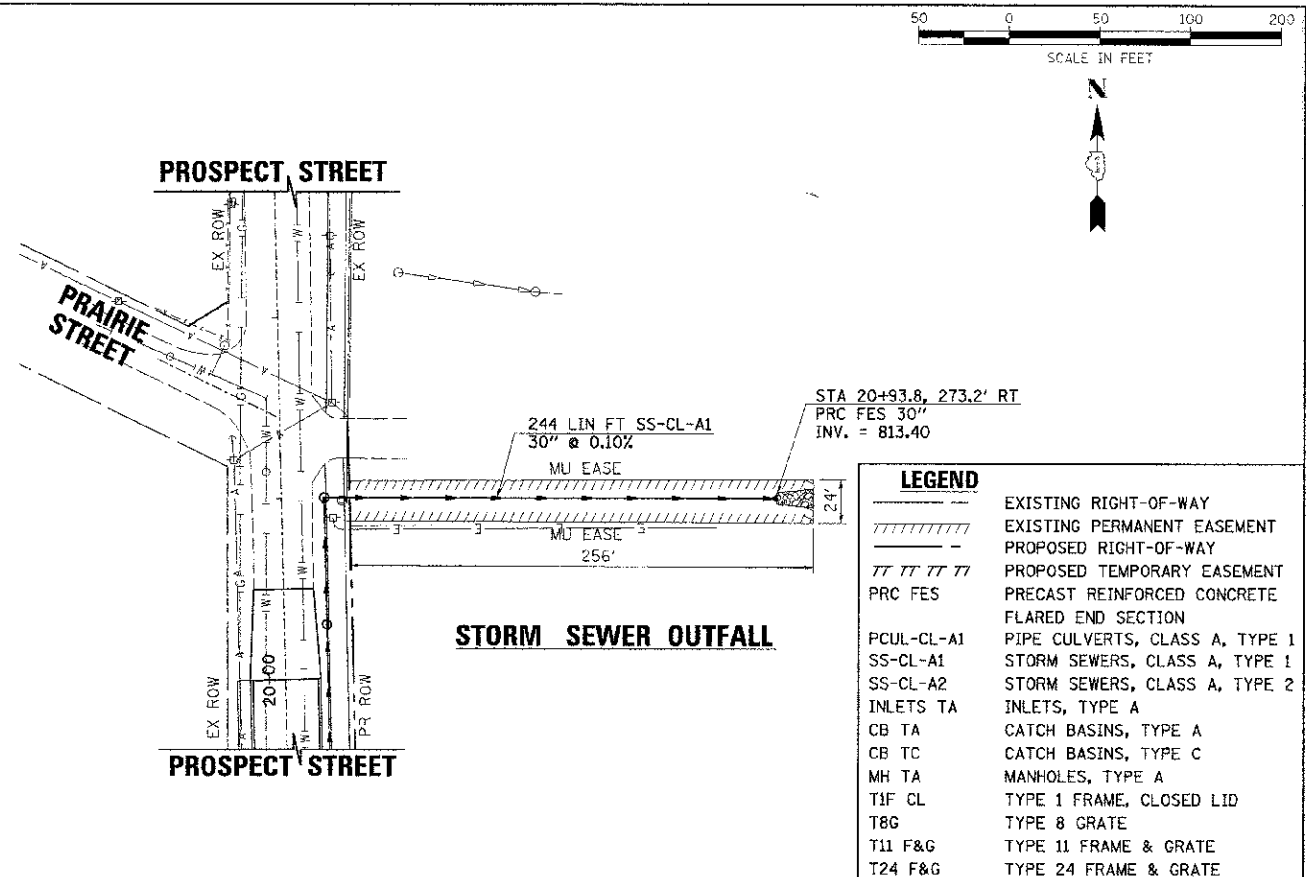
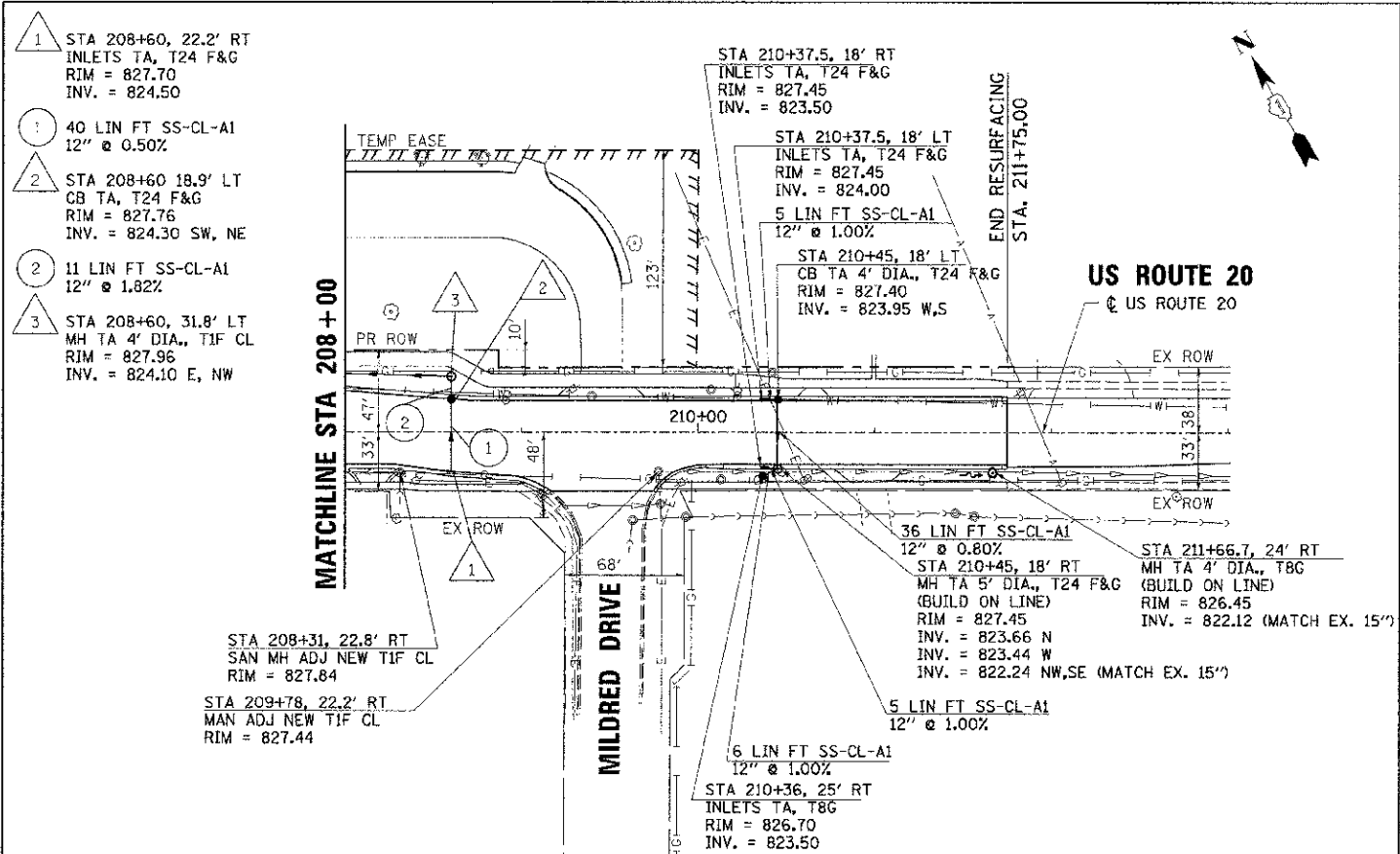
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 PROJECT CONTACT: [Name]
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 PLOT DRIVER: [Name]
 PEN TABLE: [Name]

HRCGreen.com Illinois Professional Design Firm # 184-001252	USER NAME: sparnal DESIGNED: DCJ DRAWN: SMP CHECKED: TEH DATE: 2/5/13	REVISED: - REVISED: - REVISED: - REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE U.S. ROUTE 20	F.A.U. RT# 1 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 43
SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 198+06.00 TO STA. 208+00.00				CONTRACT NO. 63532		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

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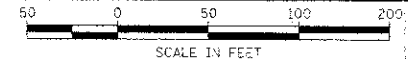
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COMPANY NAME: HRGreen
 PROJECT CONTACT: [Name]
 DATE: [Date]
 FILE NAME: [Name]
 PLOT DRIVER: [Name]
 PLOT DATE: [Date]



LEGEND	
	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PRECAST REINFORCED CONCRETE
	FLARED END SECTION
	PIPE CULVERTS, CLASS A, TYPE 1
	SS-CL-A1 STORM SEWERS, CLASS A, TYPE 1
	SS-CL-A2 STORM SEWERS, CLASS A, TYPE 2
	INLETS TA INLETS, TYPE A
	CB TA CATCH BASINS, TYPE A
	CB TC CATCH BASINS, TYPE C
	MH TA MANHOLES, TYPE A
	T1F CL TYPE 1 FRAME, CLOSED LID
	T8G TYPE 8 GRATE
	T11 F&G TYPE 11 FRAME & GRATE
	T24 F&G TYPE 24 FRAME & GRATE

DESIGNED: DCJ DRAWN: SMP CHECKED: TEH DATE: 2/5/13	REVISIONS: - REVISIONS: - REVISIONS: - REVISIONS: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE U.S. ROUTE 20 STORM SEWER OUTFALL	F.A.U. NO.: 4087 SECTION: 98-0024-00-WR COUNTY: MCHENRY TOTAL SHEETS: 115 SHEET NO.: 44 CONTRACT NO.: 63532
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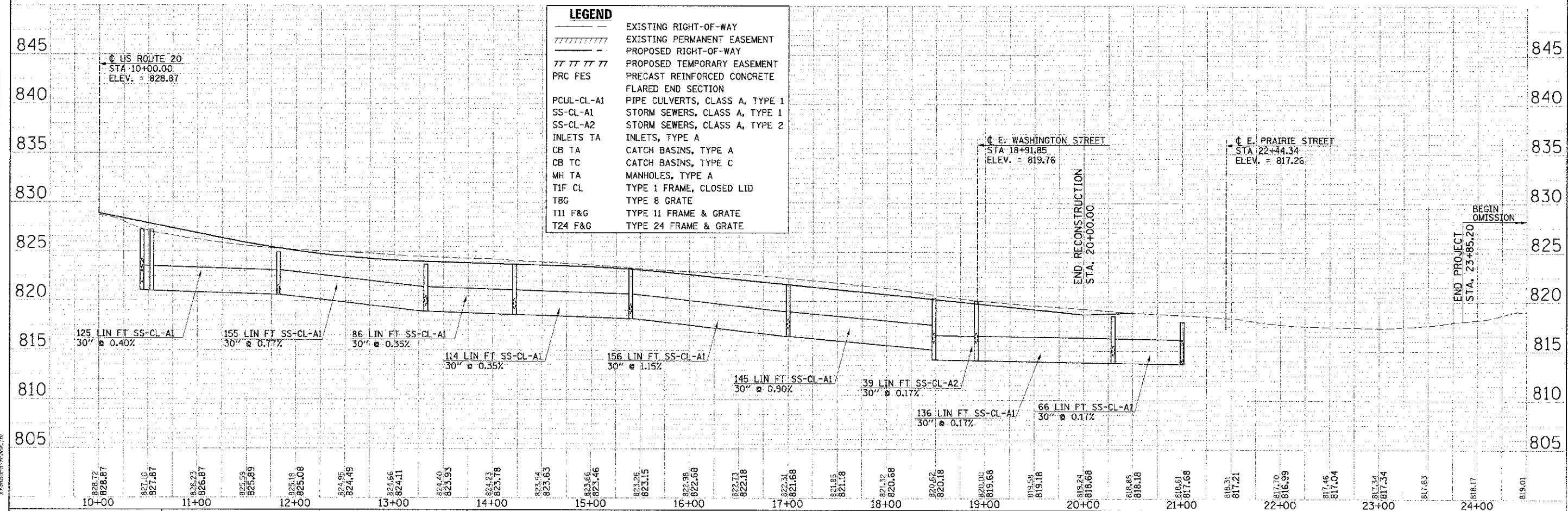
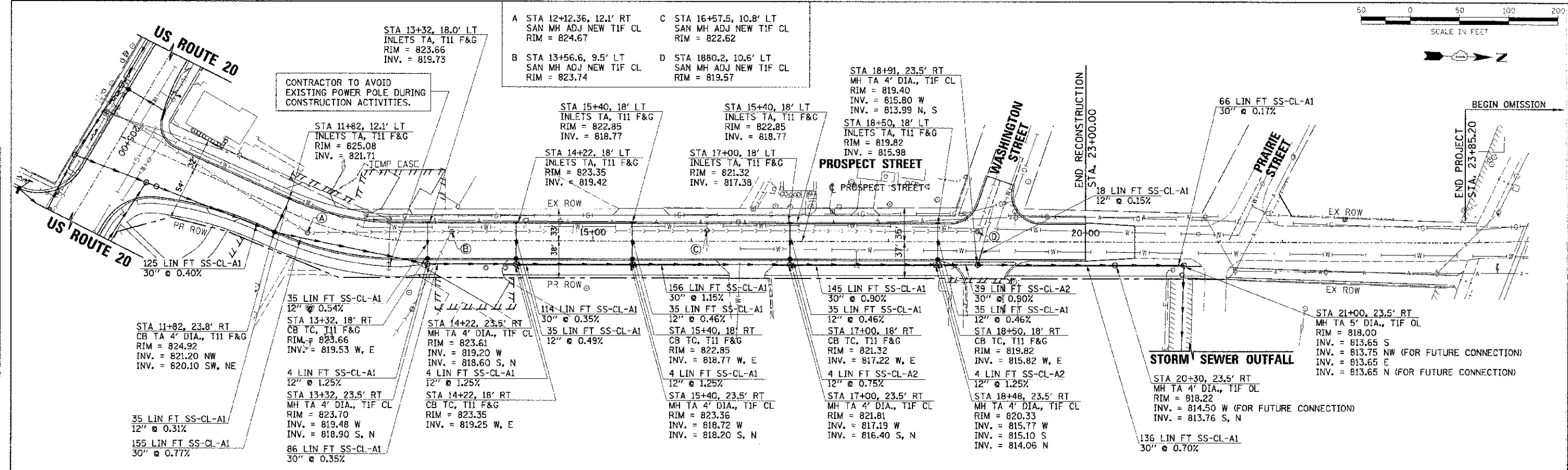
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COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: STATE OF ILLINOIS
 FILE NAME: 98-0024-00-WR
 PLOT DRAWER: MCHENRY
 PEN TABLE: 115 45



LEGEND	
-----	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
- - - - -	PROPOSED RIGHT-OF-WAY
///	PROPOSED TEMPORARY EASEMENT
TTTTTT	PRECAST REINFORCED CONCRETE FLARED END SECTION
PCUL-CL-A1	PIPE CULVERTS, CLASS A, TYPE 1
SS-CL-A1	STORM SEWERS, CLASS A, TYPE 1
SS-CL-A2	STORM SEWERS, CLASS A, TYPE 2
INLETS TA	INLETS, TYPE A
CB TA	CATCH BASINS, TYPE A
CB TC	CATCH BASINS, TYPE C
MH TA	MANHOLES, TYPE A
T1F CL	TYPE 1 FRAME, CLOSED LID
T8G	TYPE 8 GRATE
T11 F&G	TYPE 11 FRAME & GRATE
T24 F&G	TYPE 24 FRAME & GRATE

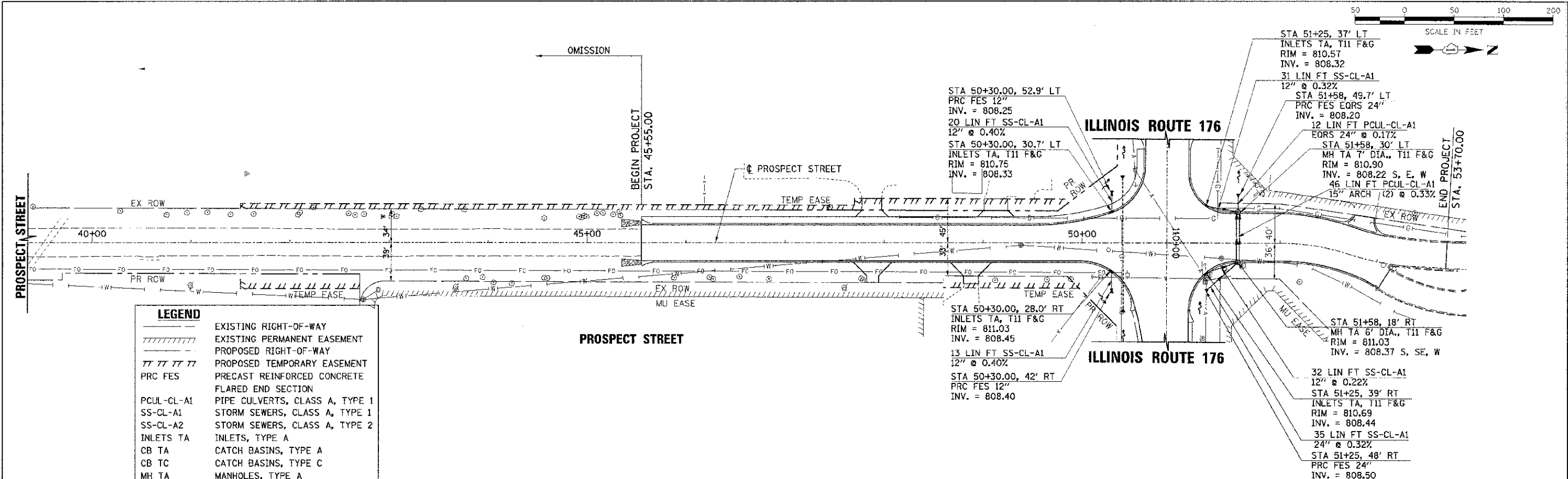
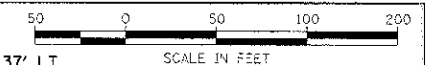
USER NAME	sperral
DESIGNED	DCJ
DRAWN	SMP
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

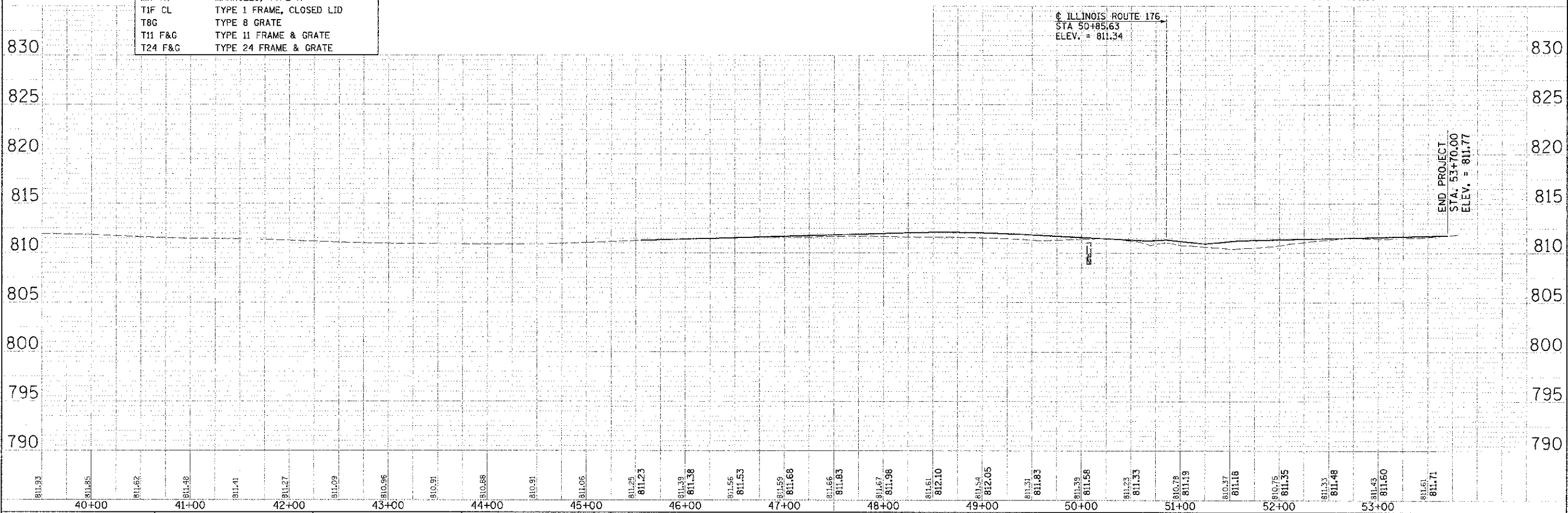
SCALE: 1" = 50'
 SHEET NO. 3 OF 6 SHEETS
 STA. 10+00.00 TO STA. 23+85.20

F.A.U. RTF	SECTION	COUNTY	TOTAL SHEETS
4087	98-0024-00-WR	MCHENRY	115 45
CONTRACT NO.			63532
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



LEGEND

	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PRECAST REINFORCED CONCRETE
	FLARED END SECTION
	PIPE CULVERTS, CLASS A, TYPE 1
	STORM SEWERS, CLASS A, TYPE 1
	STORM SEWERS, CLASS A, TYPE 2
	INLETS, TYPE A
	CATCH BASINS, TYPE A
	CATCH BASINS, TYPE C
	MANHOLES, TYPE A
	TYPE 1 FRAME, CLOSED LID
	TYPE 8 GRATE
	TYPE 11 FRAME & GRATE
	TYPE 24 FRAME & GRATE



PLAN

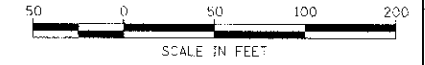
DATE	BY

PROFILE

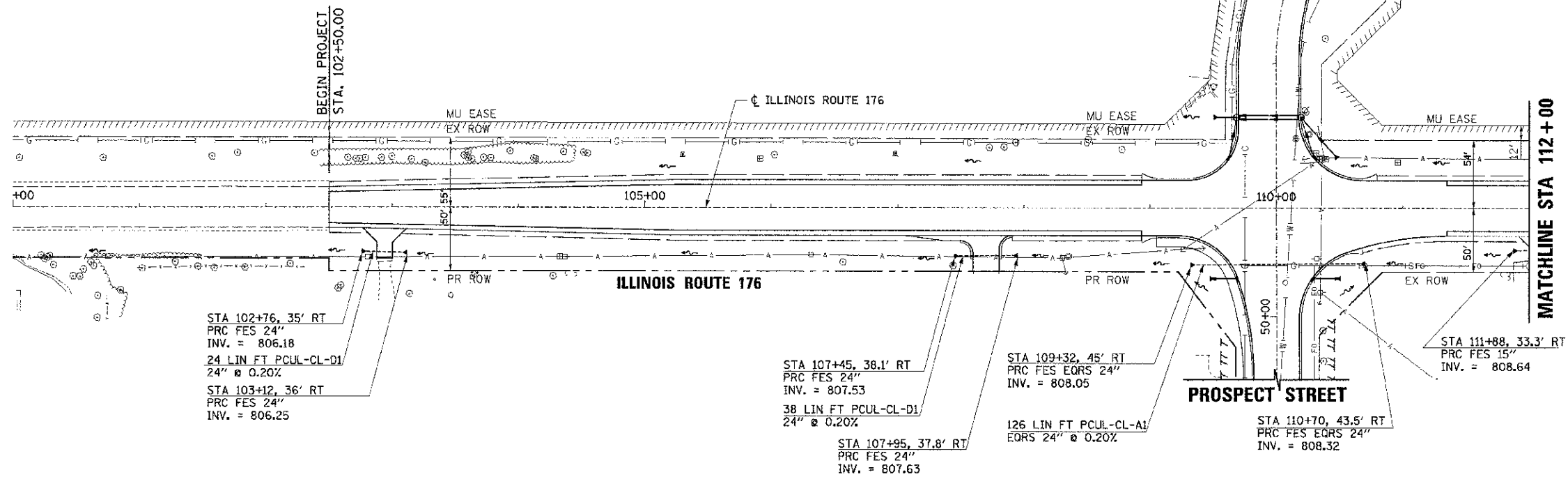
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	USER NAME = spinnal DESIGNED DCJ DRAWN SMP CHECKED TEH DATE 2/5/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE PROSPECT STREET			F.A.I. RT. 408T SECTION 98-0024-00-WR COUNTY MC HENRY TOTAL SHEETS 115 SHEETS 46
	SCALE: 1" = 50' SHEET NO. 4 OF 6 SHEETS STA. 41+50.00 TO STA. 53+70.00			CONTRACT NO. 63532			
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

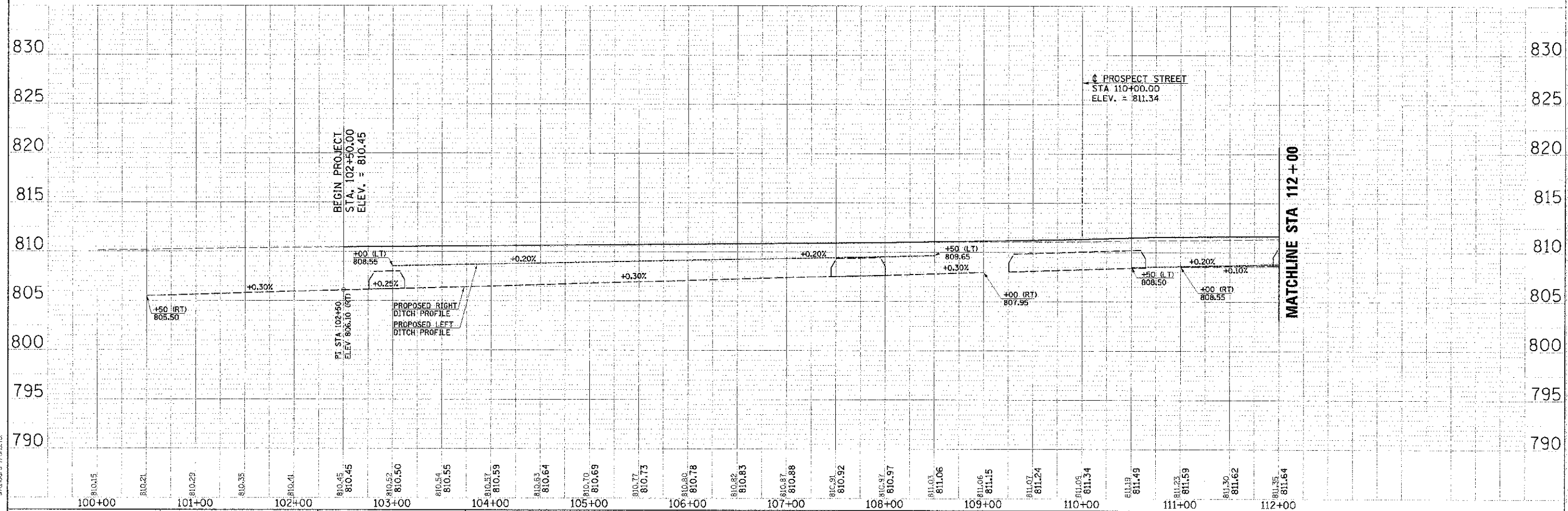


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2. CHECKED	
3. APPROVED	
4. DATE	
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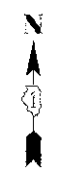
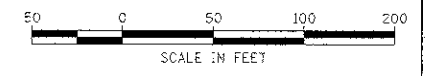
LEGEND	
	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PRECAST REINFORCED CONCRETE FLARED END SECTION
	PCUL-CL-A1 PIPE CULVERTS, CLASS A, TYPE 1
	SS-CL-A1 STORM SEWERS, CLASS A, TYPE 1
	SS-CL-A2 STORM SEWERS, CLASS A, TYPE 2
	INLETS TA INLETS, TYPE A
	CB TA CATCH BASINS, TYPE A
	CB TC CATCH BASINS, TYPE C
	MH TA MANHOLES, TYPE A
	T1F CL TYPE 1 FRAME, CLOSED LID
	T8G TYPE 8 GRATE
	T11 F&G TYPE 11 FRAME & GRATE
	T24 F&G TYPE 24 FRAME & GRATE

DATE	
BY	
REVISIONS	
1. PLOTTED	
2. CHECKED	
3. APPROVED	
4. DATE	
5. FILE NAME	
6. PLOT FILE NAME	



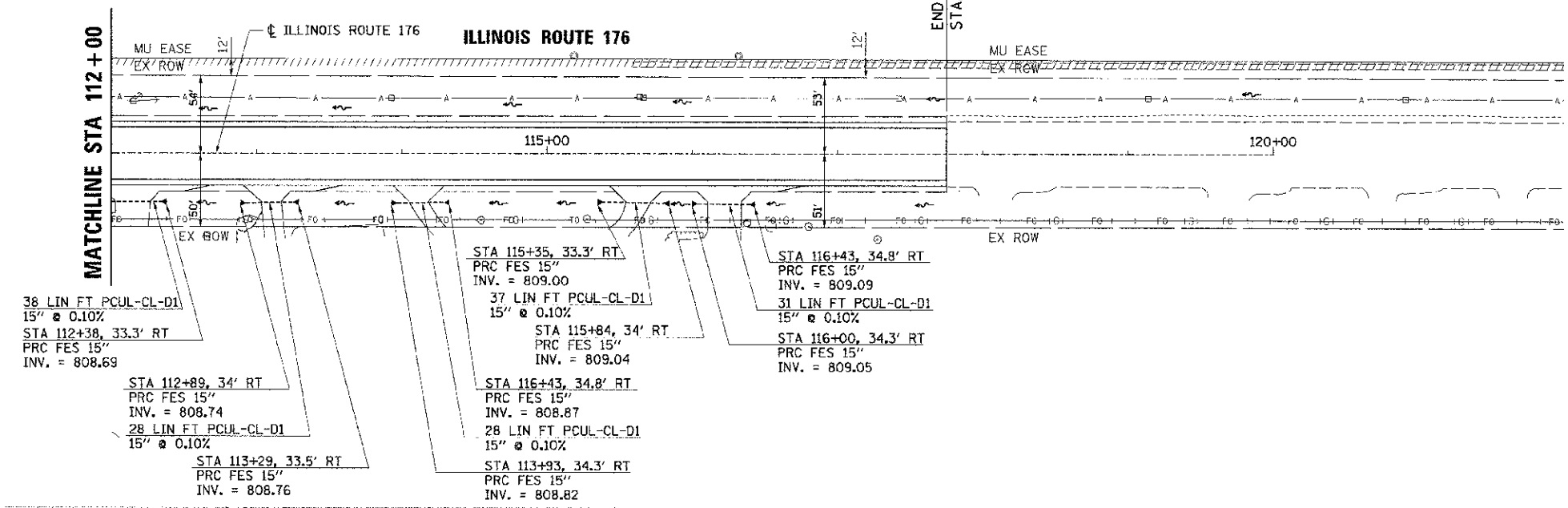
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	DESIGNED DCJ	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 176				F.A.U. 4087	SECTION 98-C024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 15	SHEET NO. 47
	DRAWN SMP	REVISIONS -		SCALE: 1" = 50'	SHEET NO. 5 OF 6 SHEETS	STA. 102+50.00 TO STA. 112+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 63532			
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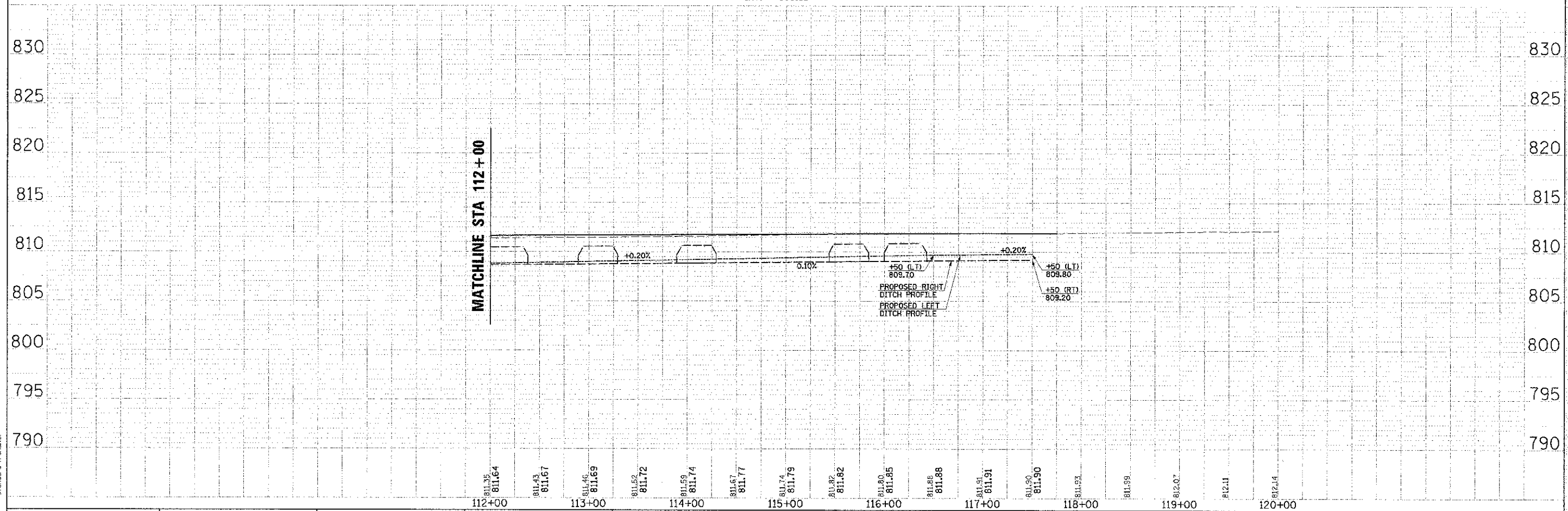


DATE	
BY	
REVISIONS	
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REVISIONS	
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REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
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LEGEND	
---	EXISTING RIGHT-OF-WAY
----	EXISTING PERMANENT EASEMENT
- - - -	PROPOSED RIGHT-OF-WAY
/// ///	PROPOSED TEMPORARY EASEMENT
PRC FES	PRECAST REINFORCED CONCRETE FLARED END SECTION
PCUL-CL-A1	PIPE CULVERTS, CLASS A, TYPE 1
SS-CL-A1	STORM SEWERS, CLASS A, TYPE 1
SS-CL-A2	STORM SEWERS, CLASS A, TYPE 2
INLETS TA	INLETS, TYPE A
CB TA	CATCH BASINS, TYPE A
CB TC	CATCH BASINS, TYPE C
MH TA	MANHOLES, TYPE A
T1F CL	TYPE 1 FRAME, CLOSED LID
T8G	TYPE 8 GRATE
T11 F&G	TYPE 11 FRAME & GRATE
T24 F&G	TYPE 24 FRAME & GRATE



DATE	
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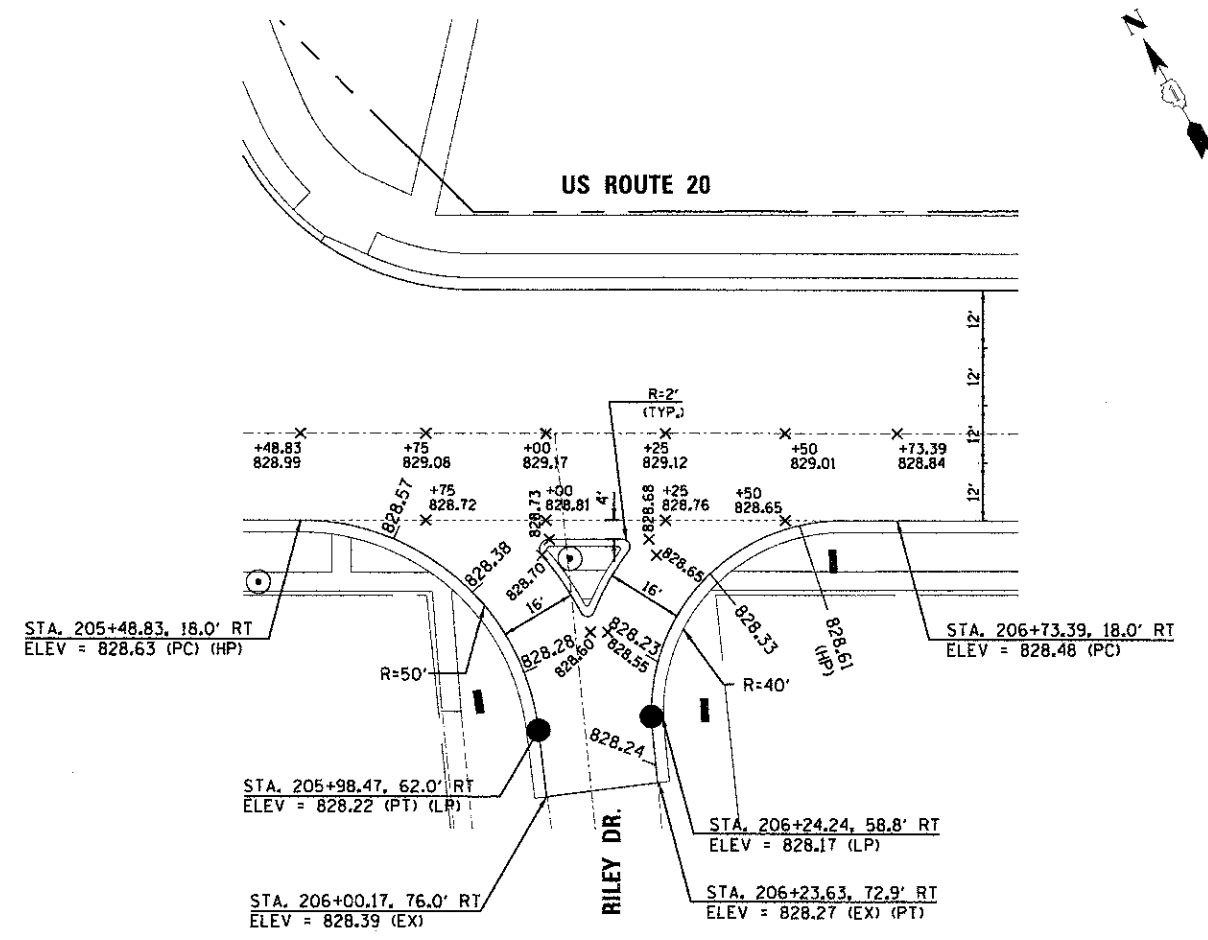
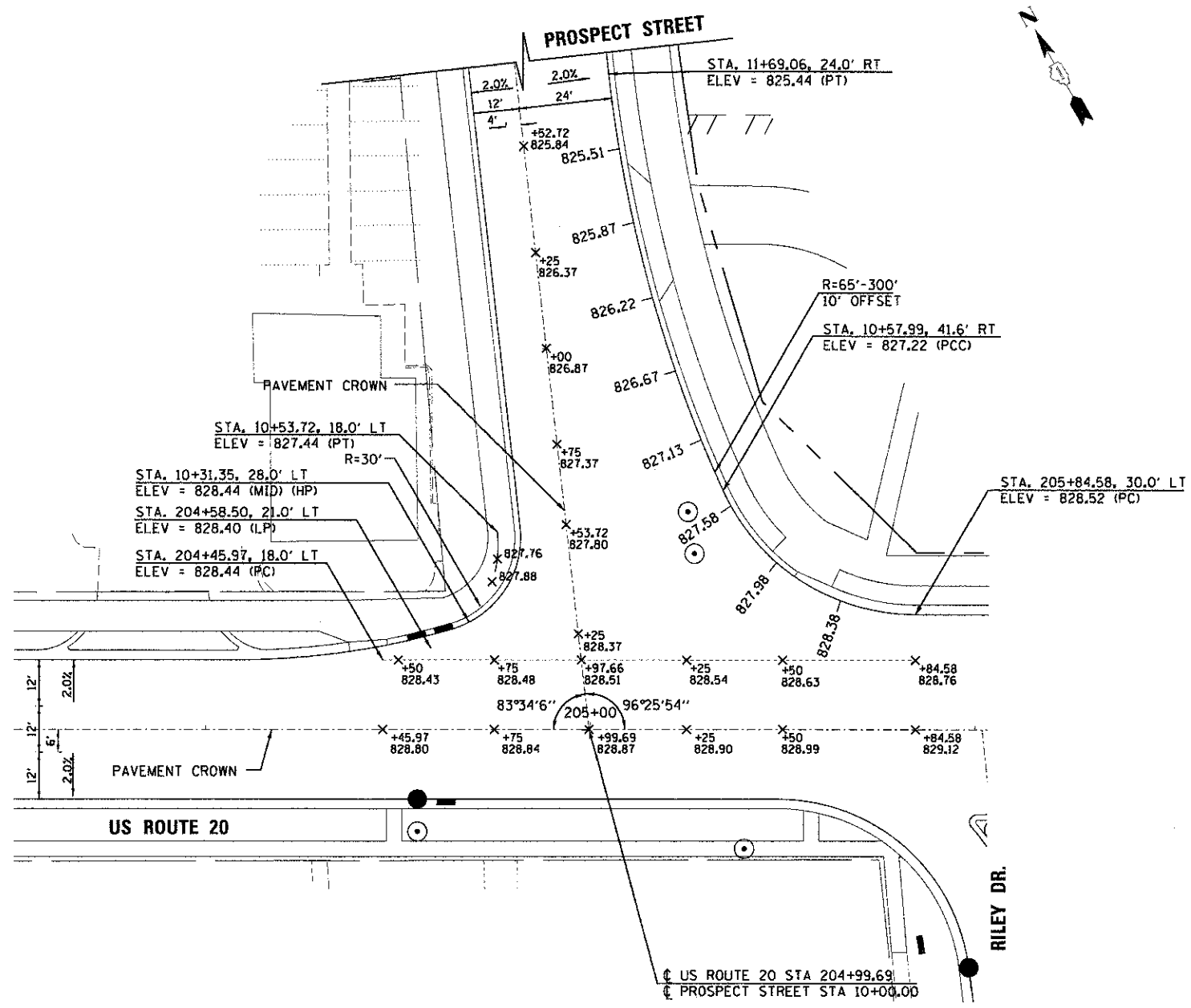
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	DESIGNED DCJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 176		F.A.W. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 48
	DRAWN SMP	REVISED -		SCALE: 1" = 50'	SHEET NO. 6 OF 6 SHEETS	STA. 112+00.00 TO STA. 117+75.00	CONTRACT NO. 63532		ILLINOIS FED. AID PROJECT	
	CHECKED TEH	REVISED -								
	DATE 2/5/13	REVISED -								

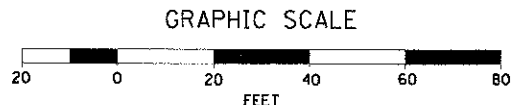
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	ALIGNED	
	CHECKED	
	BY	
	NO. OF	
	FILE	
	NO.	

PROFILE	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	BY	
	NO. OF	
	FILE	
	NO.	

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: 3/22/2013 11:35:06 AM
 DATE PLOTTED: 6:38:10 AM
 FILE NAME: pdf.yjwbp
 PLOT DRIVER: pdf.yjwbp
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NOTES:
 1. ALL STATIONS AND ELEVATION TO EDGE OF PROPOSED PAVEMENT UNLESS OTHERWISE NOTED.
 2. CURB RETURN ELEVATIONS ARE SHOWN AT 20' INCREMENTS BEGINNING AT THE U.S. RT. 20 PC.



USER NAME =	spornol	DESIGNED	DCJ	REVISED	-
		DRAWN	SMP	REVISED	-
PLOT SCALE =	1" = 20'	CHECKED	TEH	REVISED	-
PLOT DATE =	3/22/2013	DATE	2/5/13	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

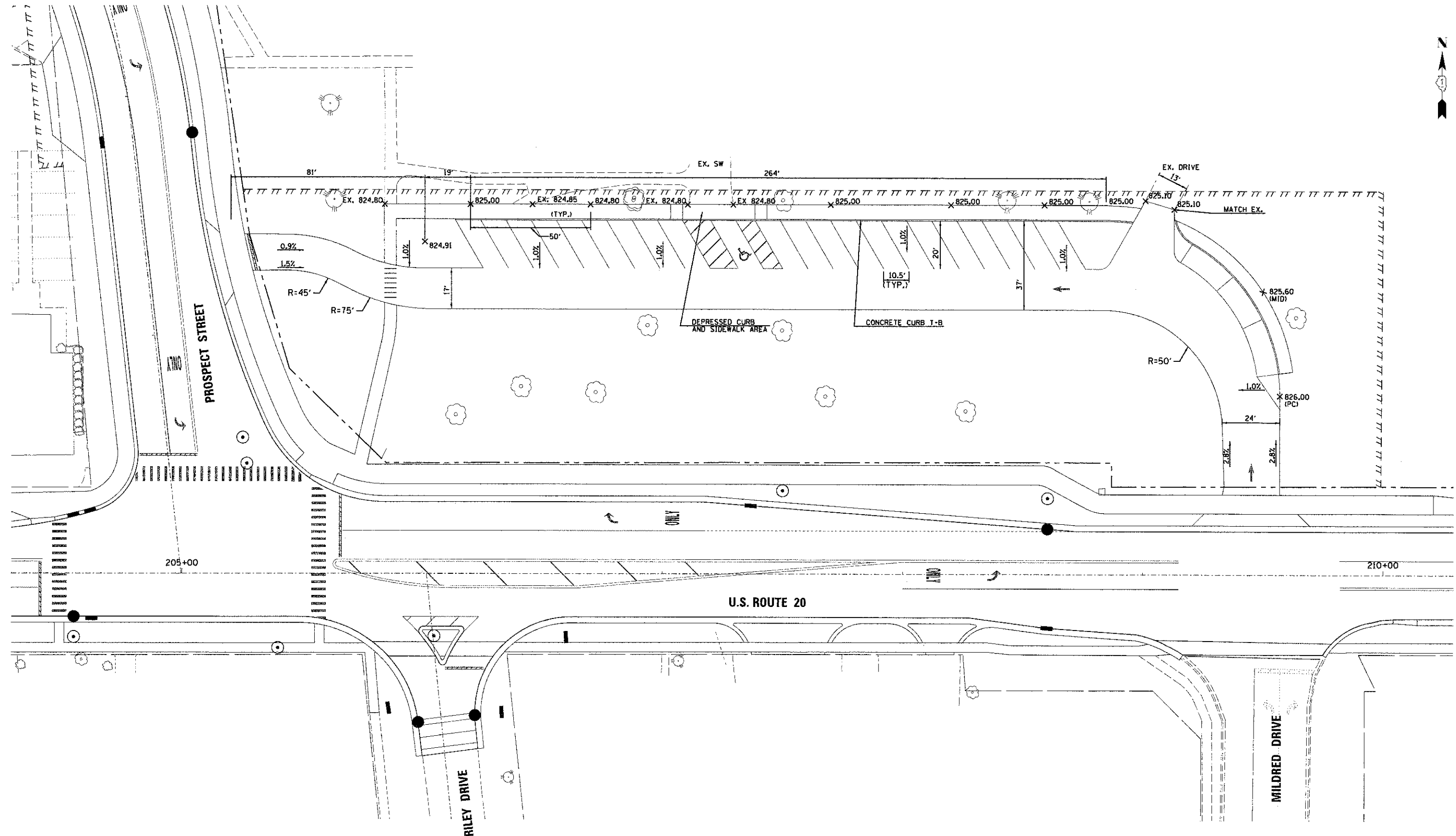
INTERSECTION PAVEMENT ELEVATION PLAN	
U.S. ROUTE 20	
SCALE: 1" = 20'	SHEET NO. 1 OF 4 SHEETS
STA.	TO STA.

F.A.Z. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-0024-00-WR	MCHENRY	115	52
CONTRACT NO.			63532	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

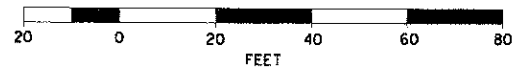
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NOTE BOOK	ALIGNED		
NO.	BY		
	FILE NAME		
	FILE NAME		

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

COMPANY NAME: HRGreen
 PROJECT CONTACT: [Name]
 CLIENTS: [Name]
 DATE PLOTTED: 3/22/2013 11:56:25 AM
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GRAPHIC SCALE



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	DRAWN SMP	REVISED -
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PLOT DATE = 3/22/2013	DATE - 2/5/13	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

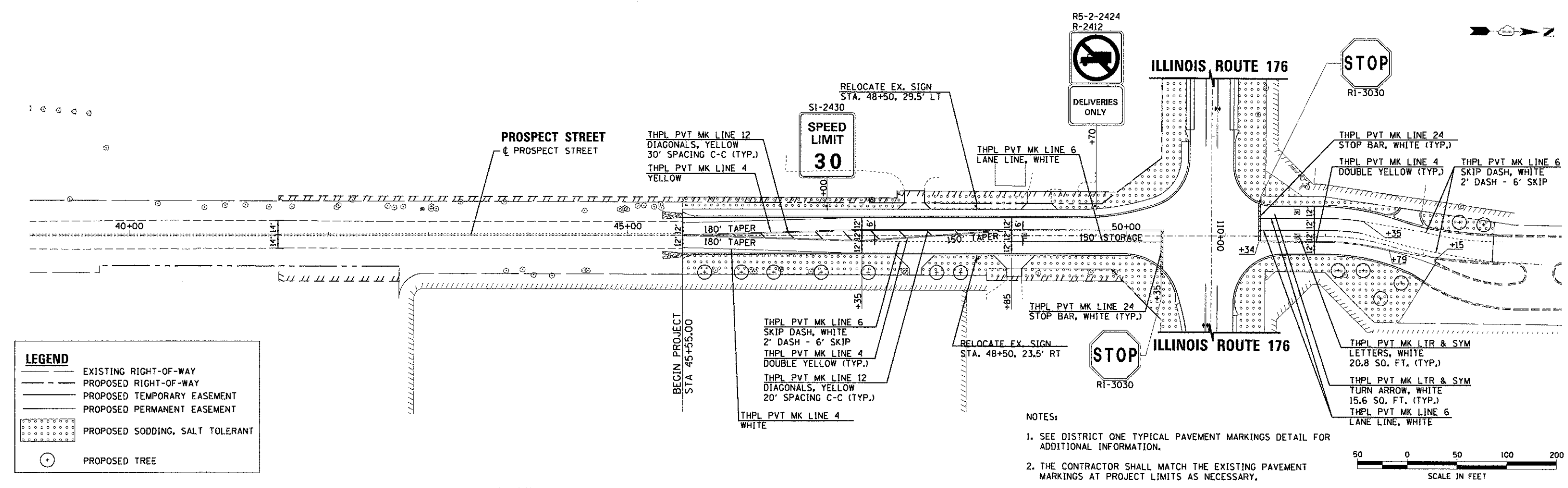
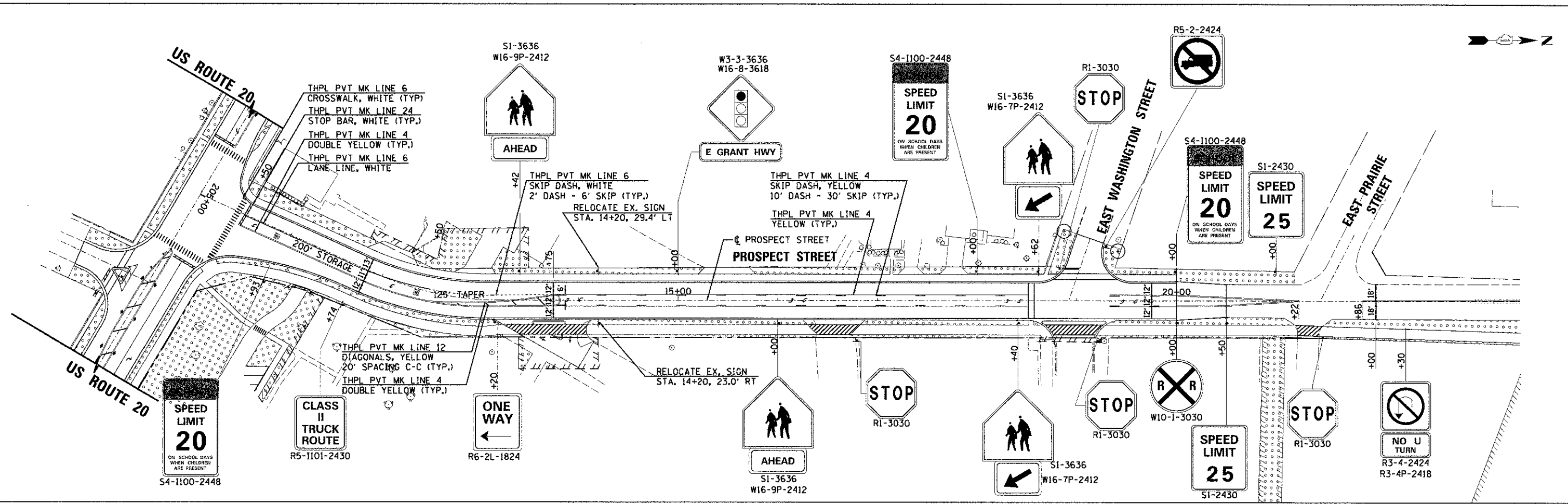
INTERSECTION PAVEMENT ELEVATION PLAN	
MARENGO COMMUNITY MIDDLE SCHOOL ENTRANCE	
SCALE:	SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-0024-00-WR	MCHENRY	115 55
CONTRACT NO.			63532
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			

PLAN	SUPERVISED	DATE
NOTE BOOK	ALIGNED	
RT. OF WAY CHECKED		
NO. CAD FILE NAME		

PROFILE	SUPERVISED	DATE
NOTE BOOK	GRADES CHECKED	
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STRUCTURE	NOTATIONS CHECKED	

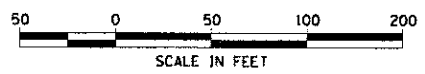
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 pens, standards, forms - Copy 26



LEGEND

	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PROPOSED PERMANENT EASEMENT
	PROPOSED SODDING, SALT TOLERANT
	PROPOSED TREE

- NOTES:
- SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.
 - THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.



COMPANY NAME: HRGreen.com
 CLIENT: Illinois Professional Design Firm
 #184-001322

USER NAME =	epornal
DESIGNED	DCJ
DRAWN	SMP
CHECKED	TEH
DATE	2/5/13
PLOT SCALE =	1" = 50'
PLOT DATE =	3/22/2013

DESIGNED	DCJ	REVISED	-
DRAWN	SMP	REVISED	-
CHECKED	TEH	REVISED	-
DATE	2/5/13	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

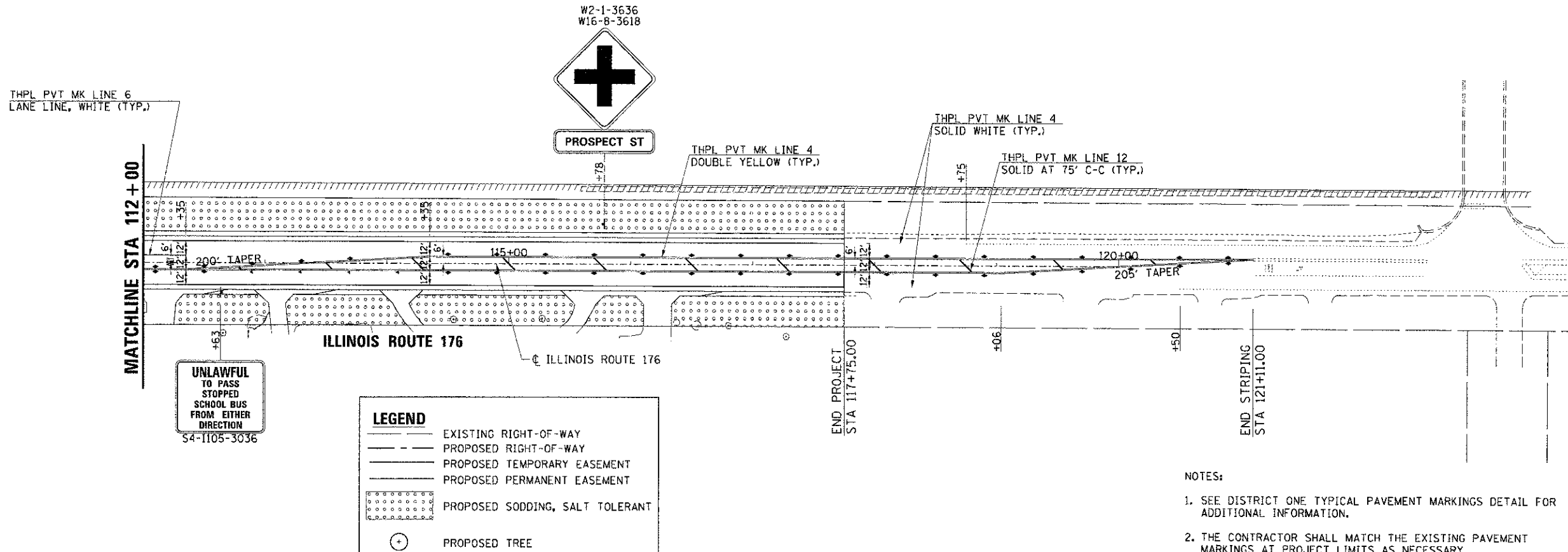
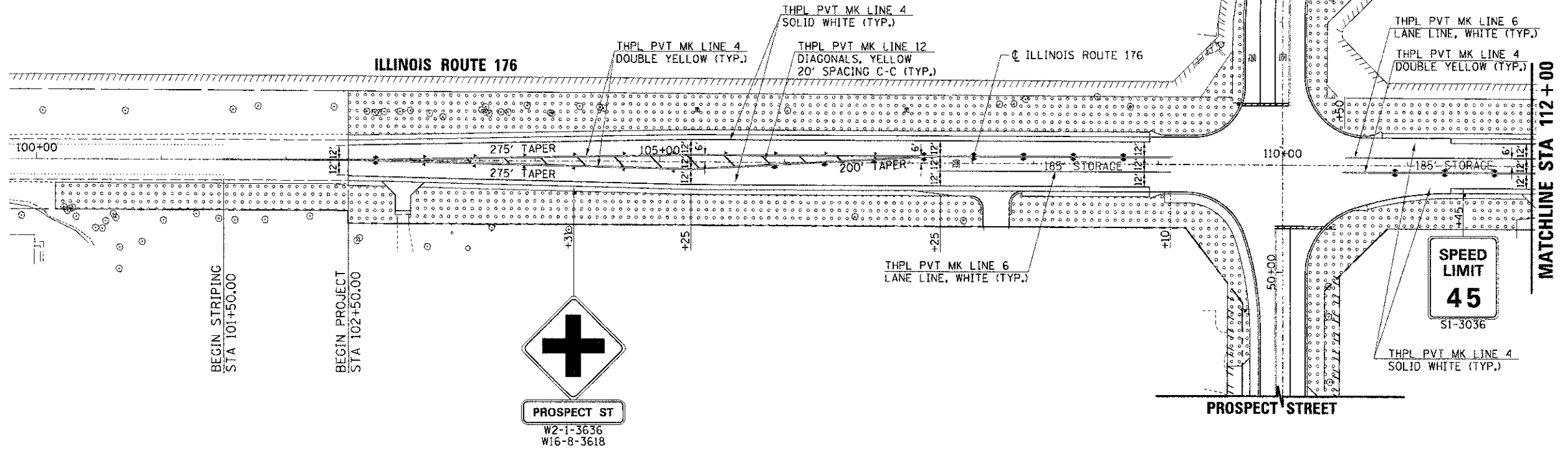
PAVEMENT MARKING, SIGNING, AND RESTORATION PLAN
 PROSPECT STREET
 SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. 10+00.00 TO STA. 53+70.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-0024-00-WR	MCHENRY	115	57
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO.	63532	

PLAN	SURVEYED	BY	DATE
	PLOTTED & CHECKED		
	NOTE BOOK		
	NO. OF WAY CHECKED		
	CADD FILE NAME		
	NO.		

PROF. I.L.C.	SURVEYED	BY	DATE
	PLOTTED & CHECKED		
	NOTE BOOK		
	NO. OF WAY CHECKED		
	STRUCTURE NOTATIONS OTHER		
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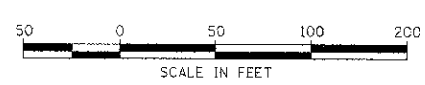
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 CLIENTS: HRGreen.com
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 PEN TABLE: standard-trans.tbl



LEGEND

	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PROPOSED PERMANENT EASEMENT
	PROPOSED SODDING, SALT TOLERANT
	PROPOSED TREE

- NOTES:
- SEE DISTRICT ONE TYPICAL PAVEMENT MARKINGS DETAIL FOR ADDITIONAL INFORMATION.
 - THE CONTRACTOR SHALL MATCH THE EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS AS NECESSARY.

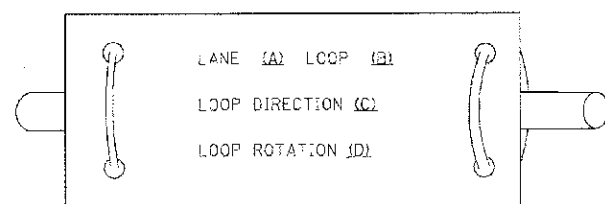


	USER NAME = soernoi PLOT SCALE = 1" = 50' PLOT DATE = 2/13/2013	DESIGNED DCJ DRAWN SMP CHECKED - TEH DATE - 2/5/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, SIGNING, AND RESTORATION PLAN ILLINOIS ROUTE 176	F.A.U. RTE. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 58
	SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. 102+50.00 TO STA. 117+75.00					FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT	CONTRACT NO. 63532		

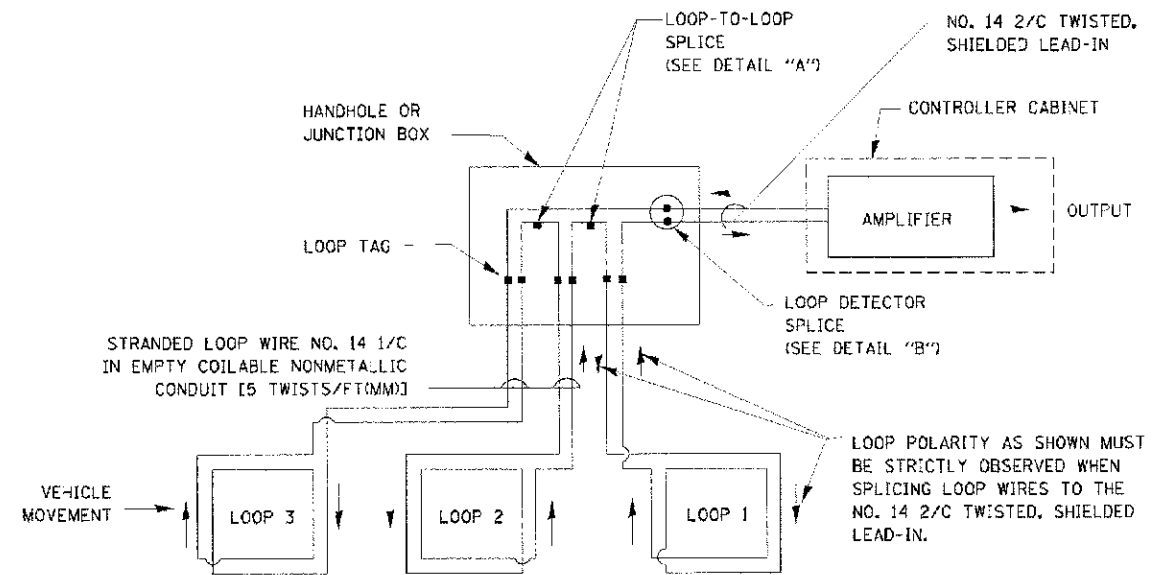
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES 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.
6. 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.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

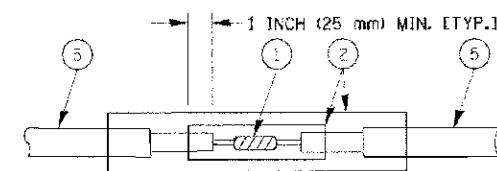


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

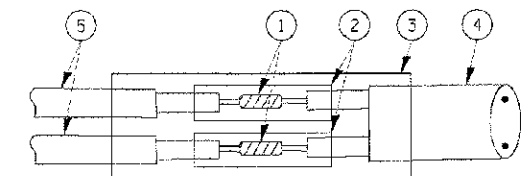


DETECTOR LOOP WIRING SCHEMATIC

- 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.

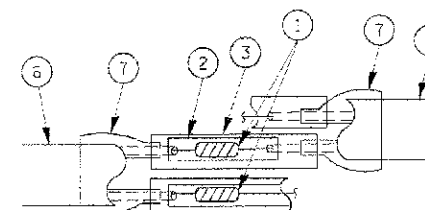


DETAIL "A" LOOP-TO-LOOP SPLICE

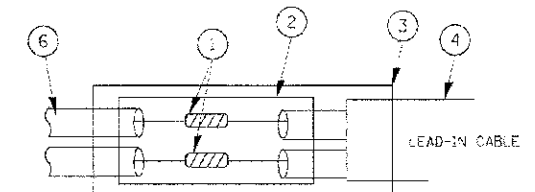


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

* SPECIALTY ITEMS
 Δ CONSTRUCTION TYPE CODE 0042
 + EVP CONSTRUCTION CODE 0021

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: [illegible]
 CLIENT: [illegible]
 DATE PLOTTED: 2/18/2013 12:00:02 AM
 FILE NAME: 638.dwg.ctb
 PLOT DRIVER: pdfplot
 PLOT DATE: 2/18/2013



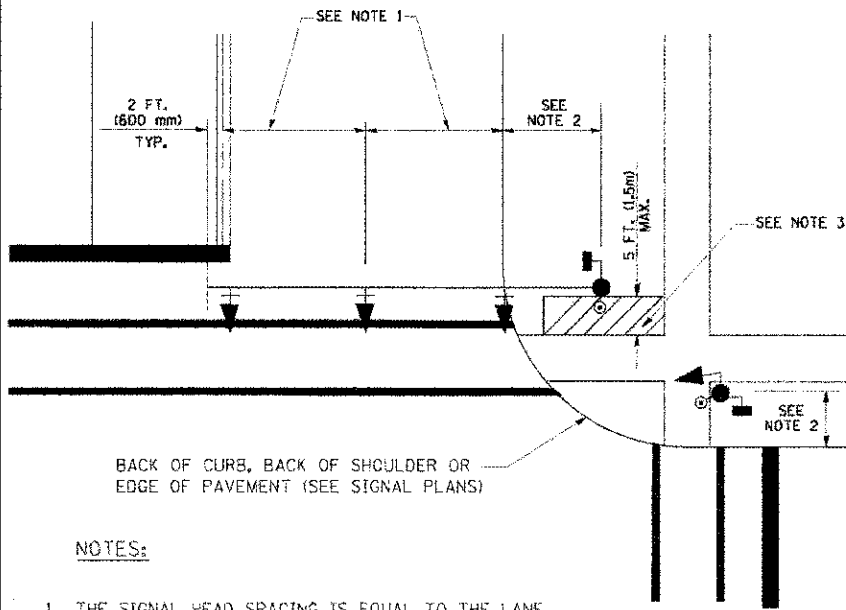
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PLOT DATE = 2/18/2013		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		SECTION		COUNTY		TOTAL SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		98-00024-00-WR		MCHENRY		115 59	
SCALE:	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
				CONTRACT NO. 63532			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

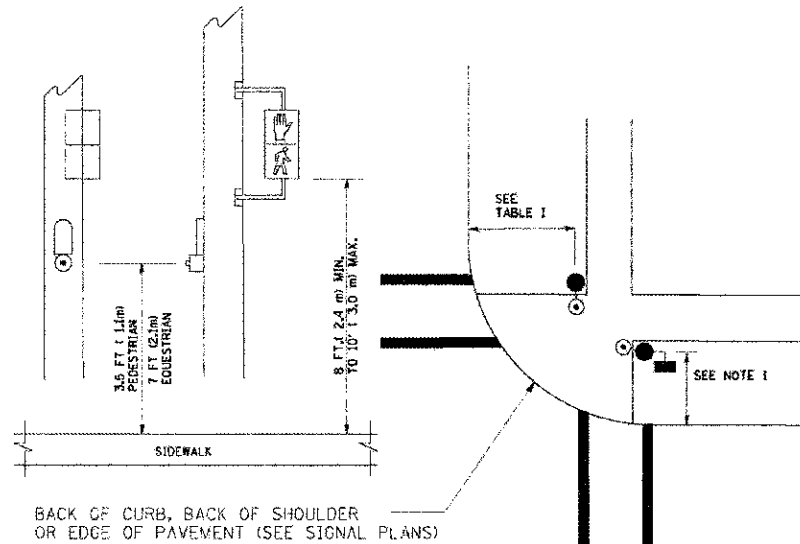
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

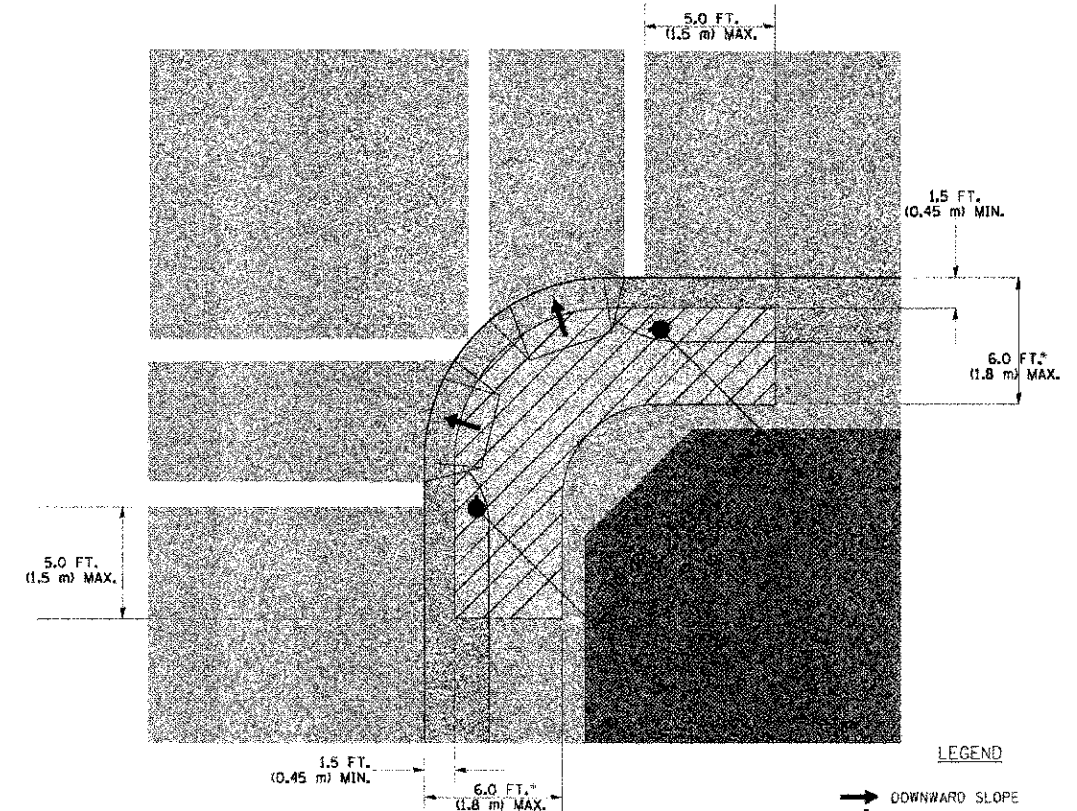
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

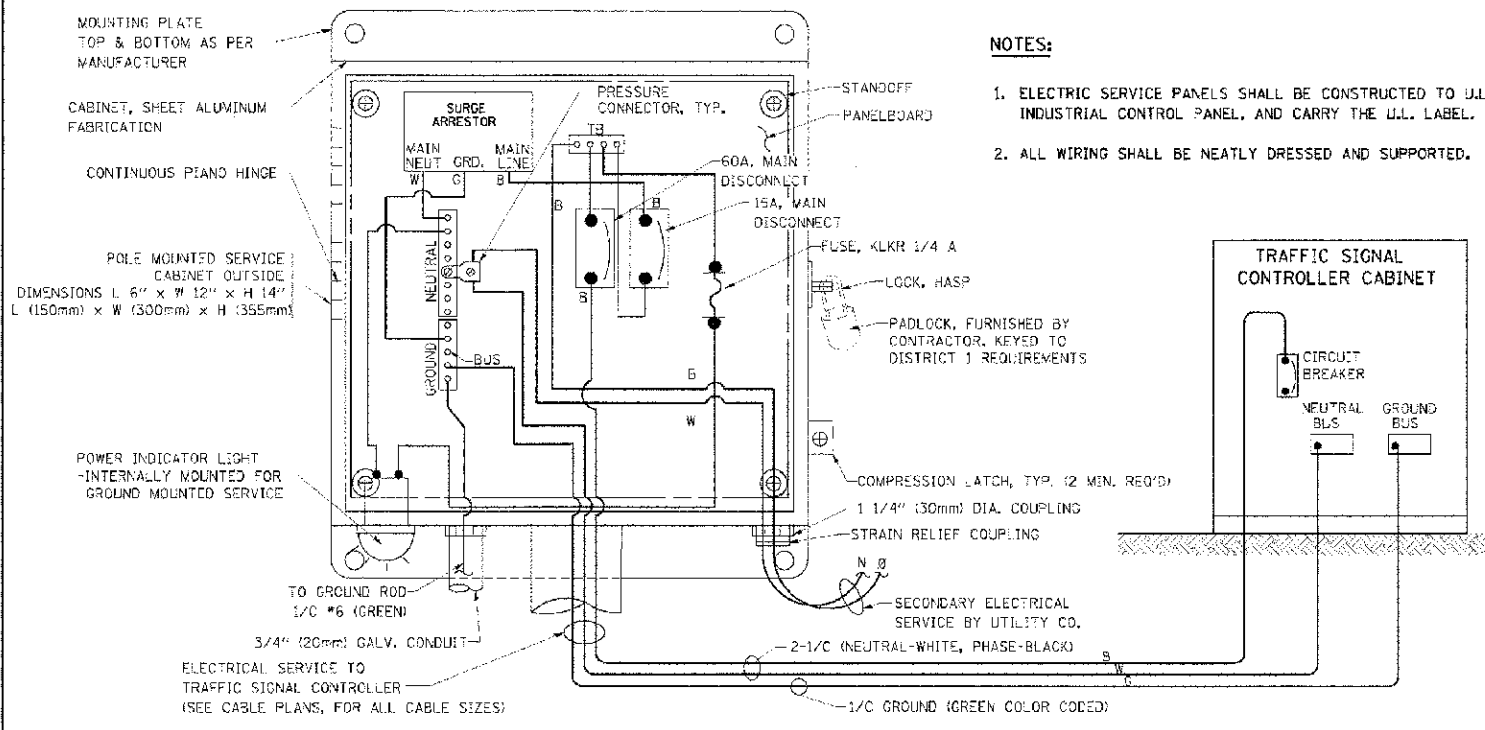
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

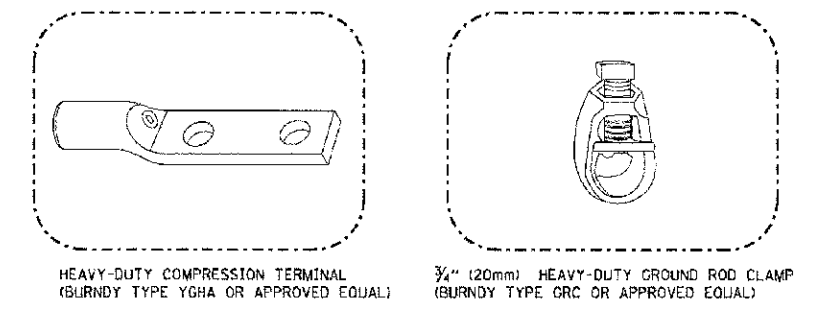
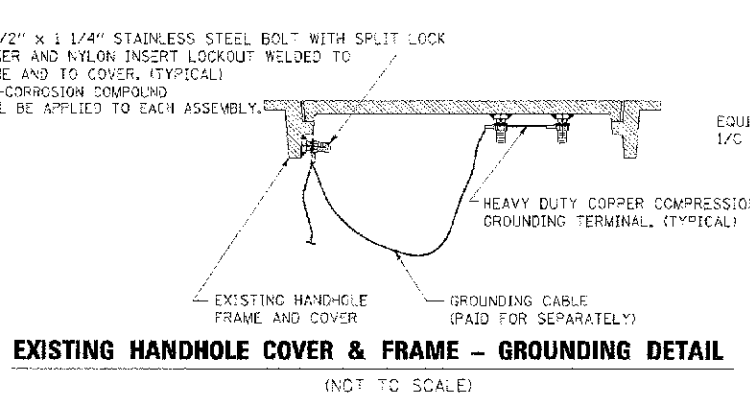
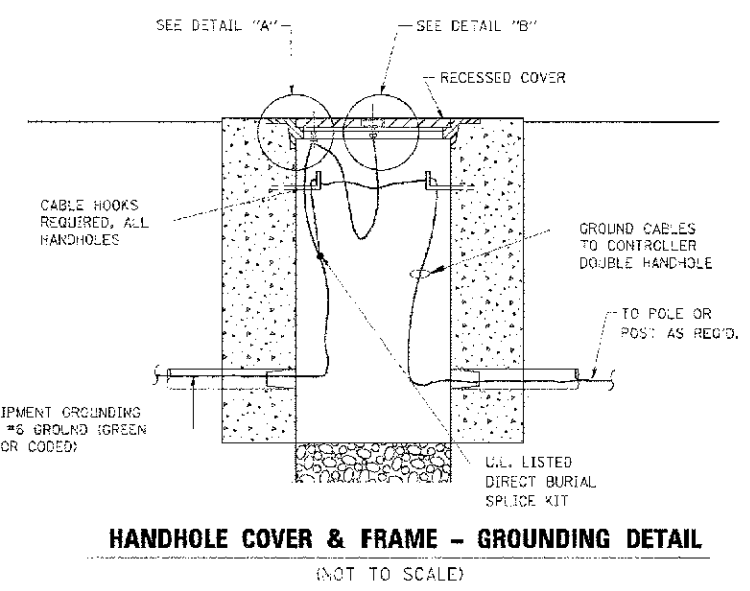
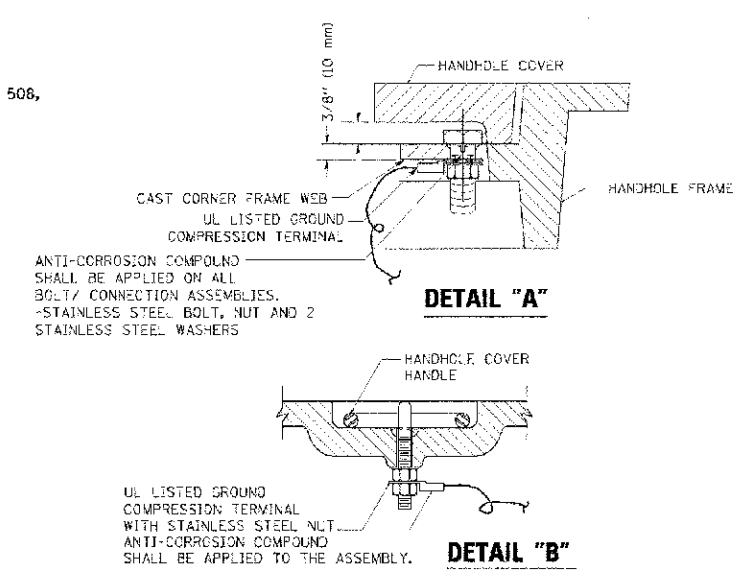
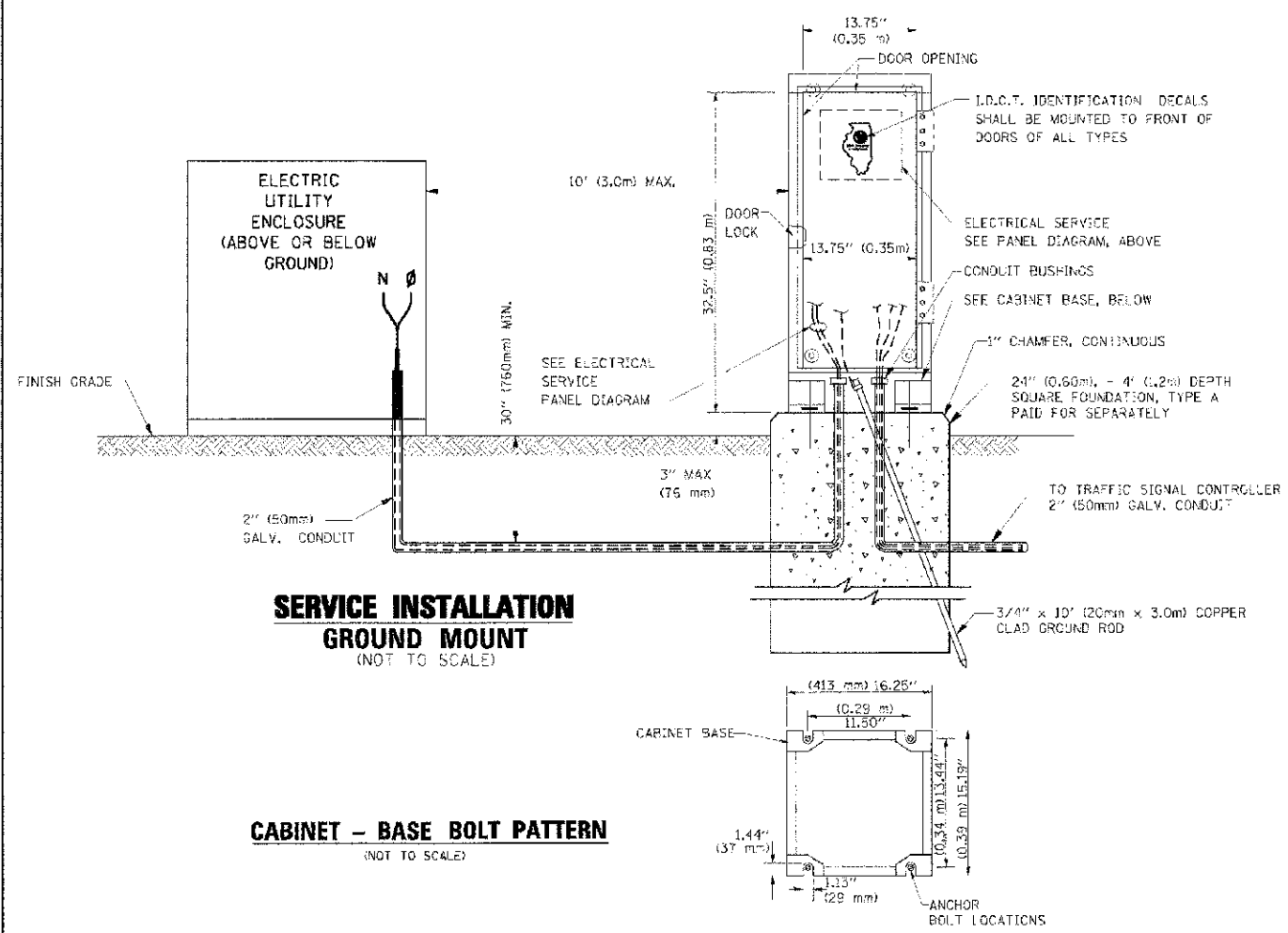
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: STATE OF ILLINOIS
 FILE NAME: 98-00024-00-WR
 PLOT DRIVER: MCHENRY
 PEN TABLE: STANDARD-TRANSD

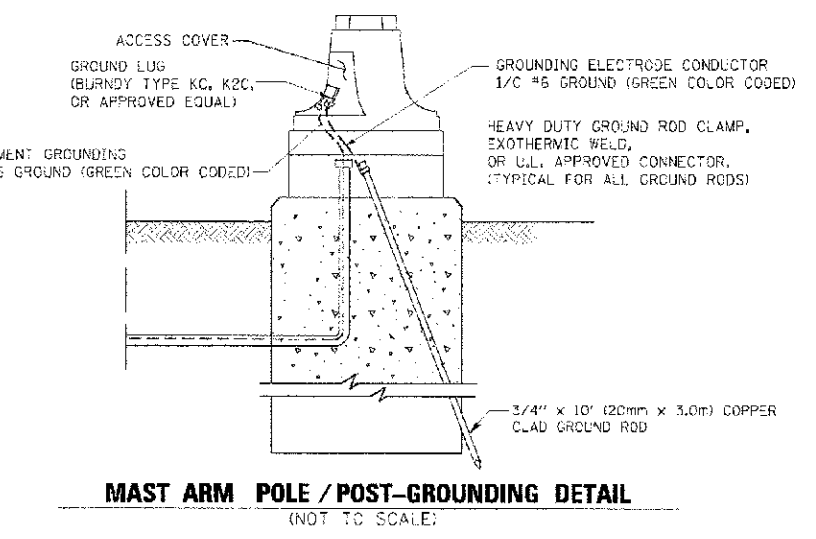
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	SCALE: [blank]	SHEET NO. 2 OF 6 SHEETS : STA. [blank] TO STA. [blank]			FEDERAL AID PROJECT NO. [blank]



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPEO 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.



NOTES:

GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
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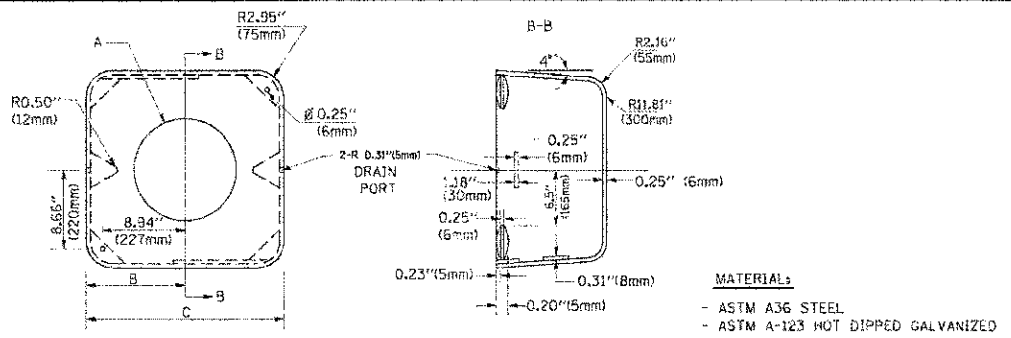
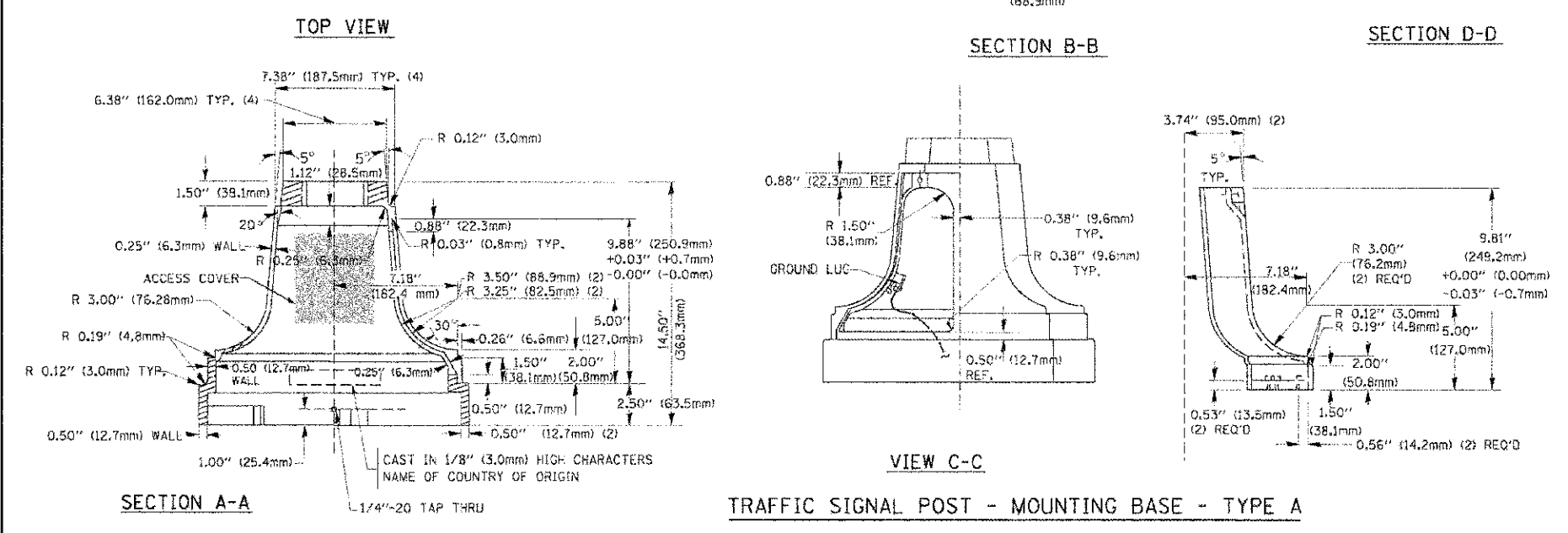
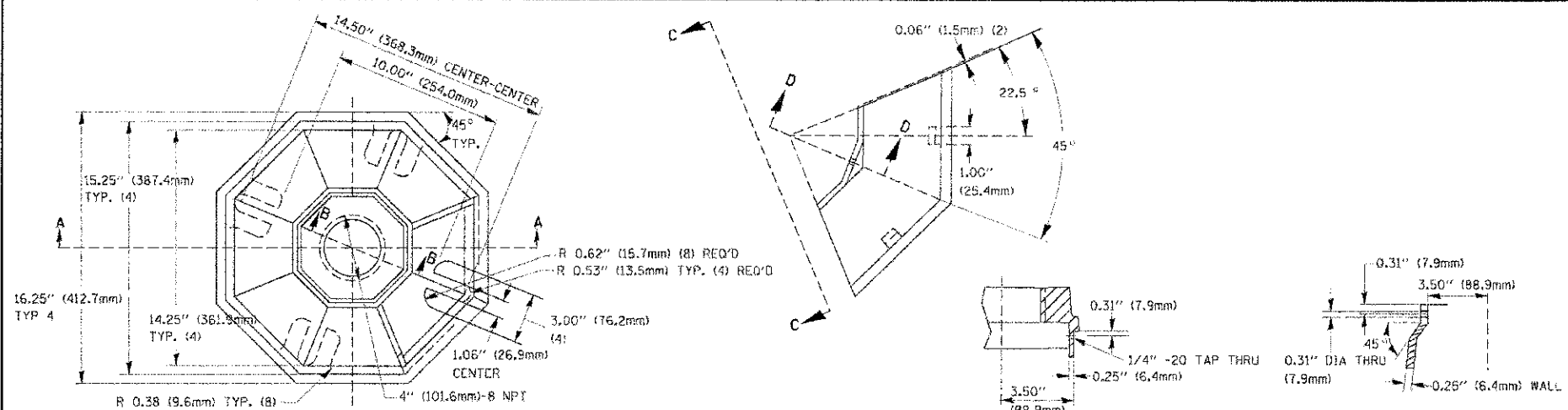
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PLOT DATE - 1/22/2009	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE. 4087	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 61
CONTRACT NO. 63532			FED. ROAD DIST. NO. ILLINOIS (FED. AID PROJECT)	

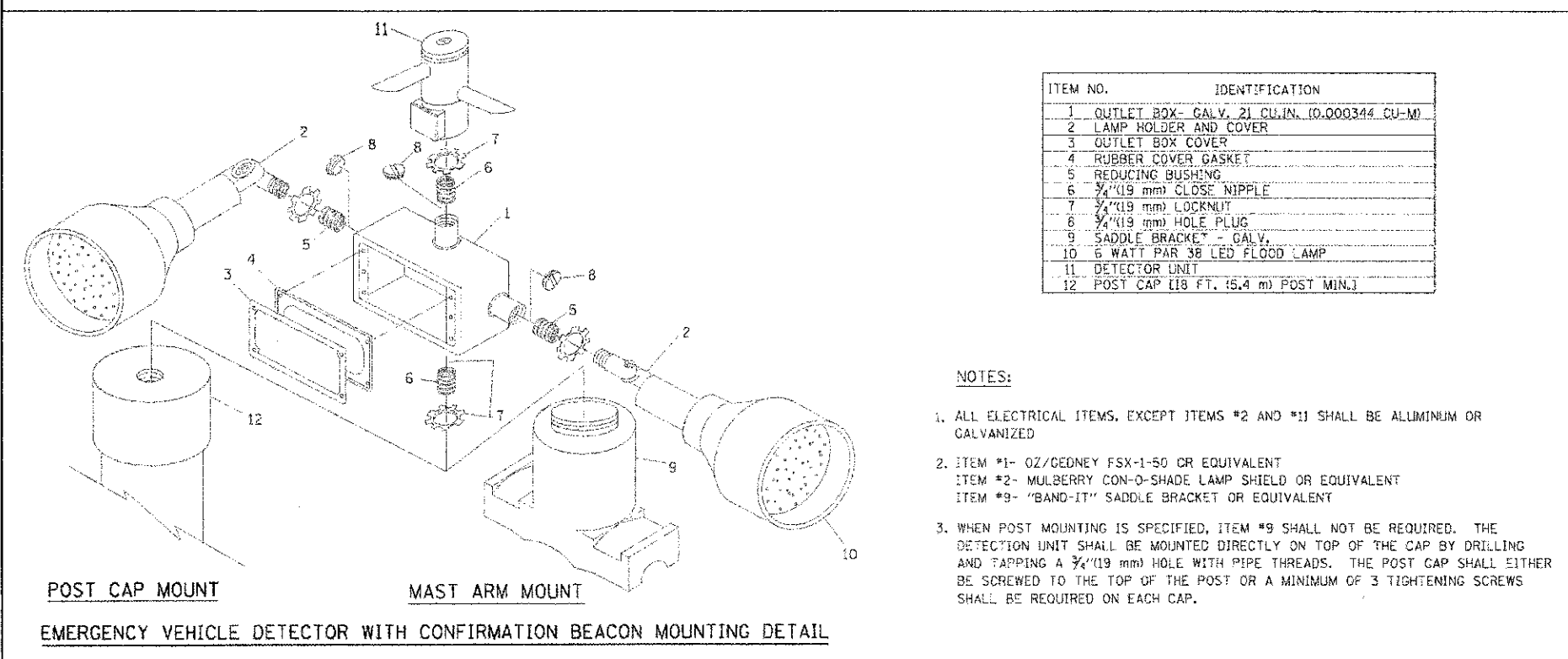
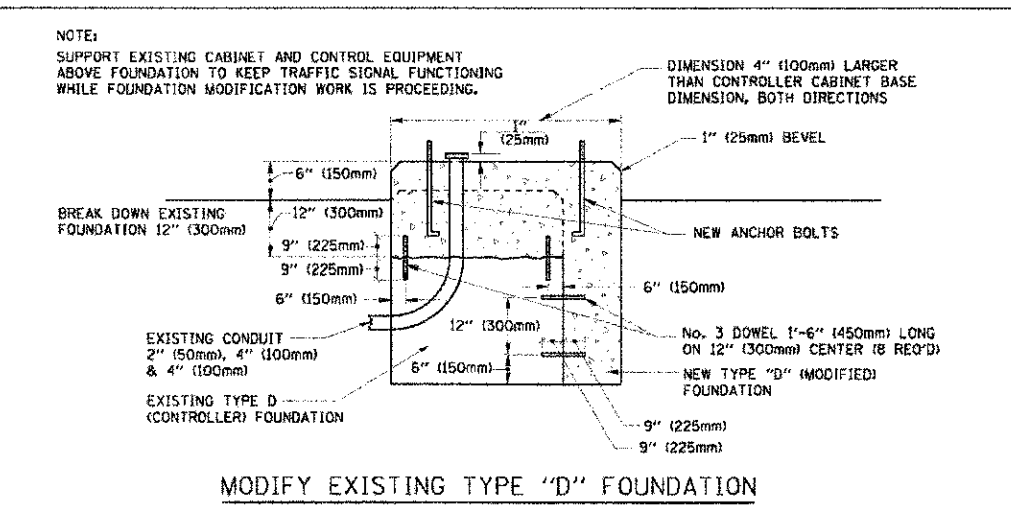


A	B	C	HEIGHT	WEIGHT
VARIES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

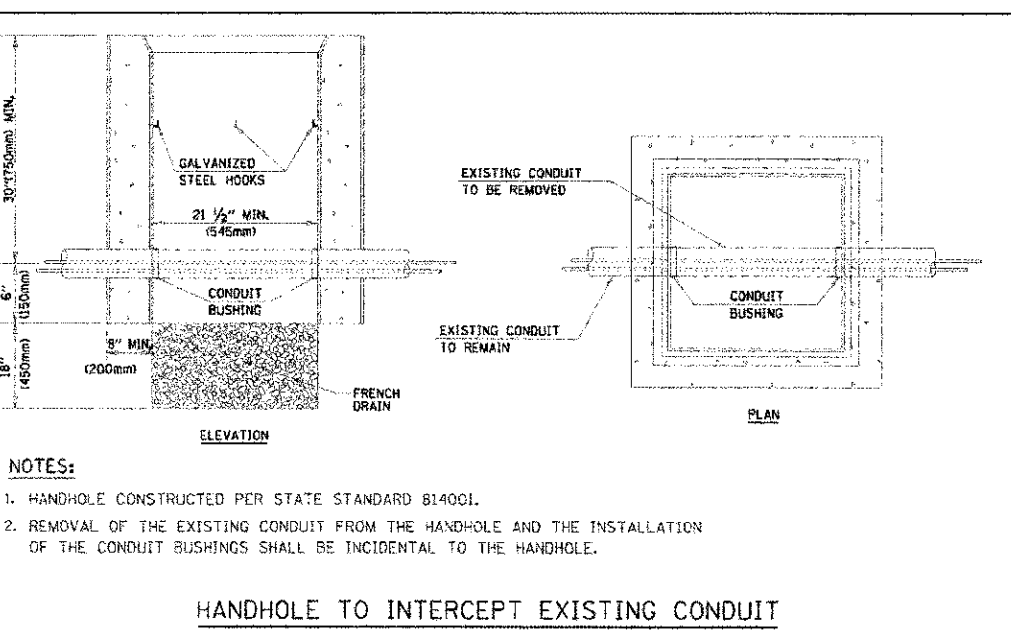
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



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	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

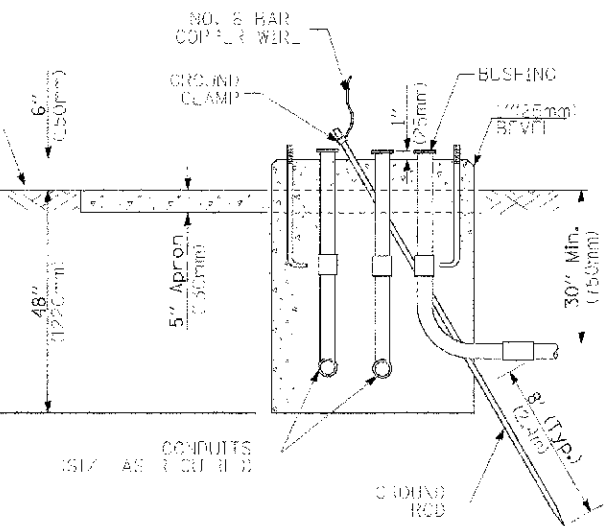
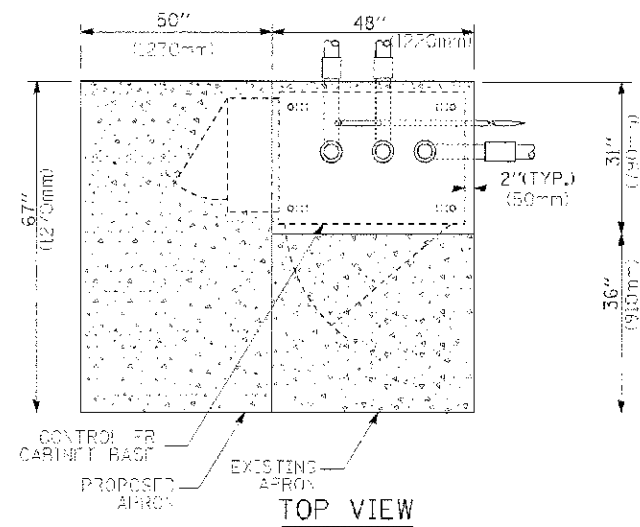
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEORNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (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.



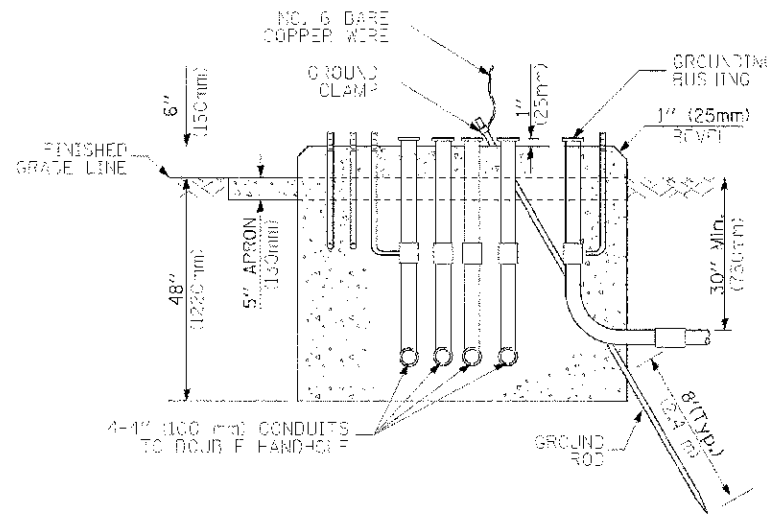
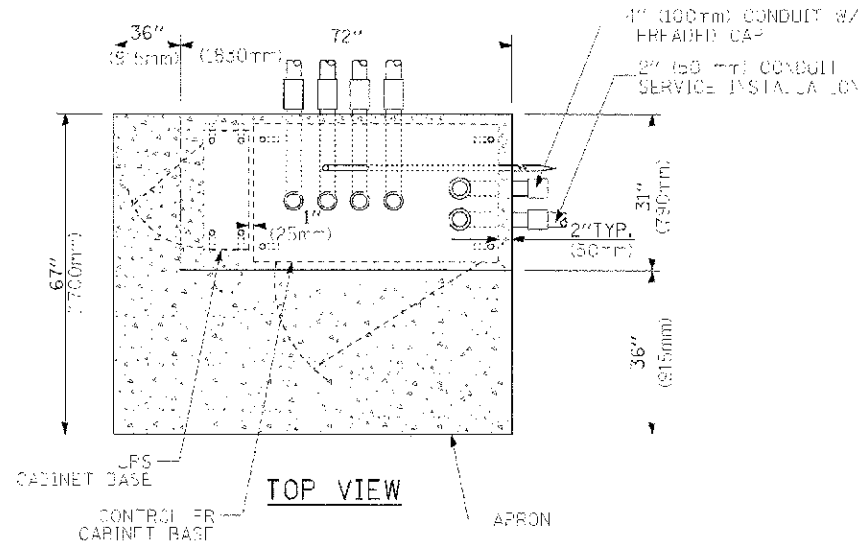
NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

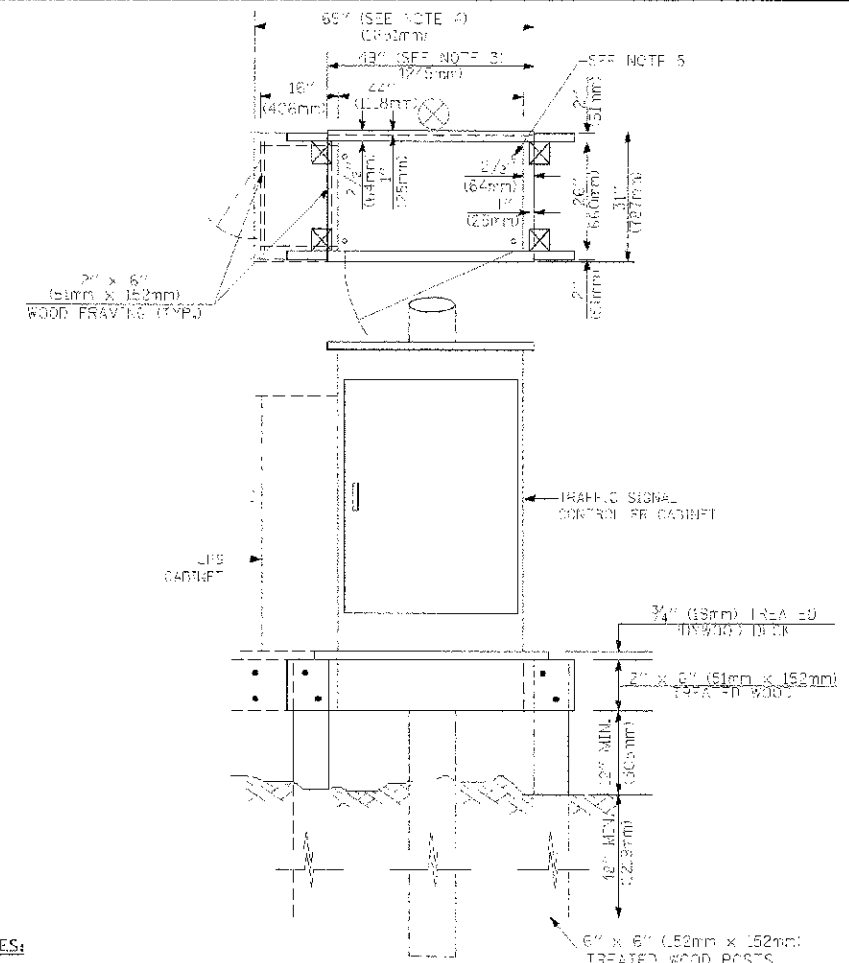
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**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	8(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	15	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (UCS) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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PROJECT CONTACT: HRGreen.com
DATE PLOTTED: 2/8/2013 1:31:25 AM
DATE PRINTED: 2/8/2013 1:31:25 AM
PLOT NUMBER: 98-00024-00-WR
PLOT TABLE: STANDARD (Standard)



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PLOT SCALE =	DRAWN = BCK	REVISED =
PLOT DATE = 2/8/2013	CHECKED = DAG	REVISED =
	DATE = 10-28-09	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE:	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.	

F.A.L. R.T.E. 4087	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 63
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

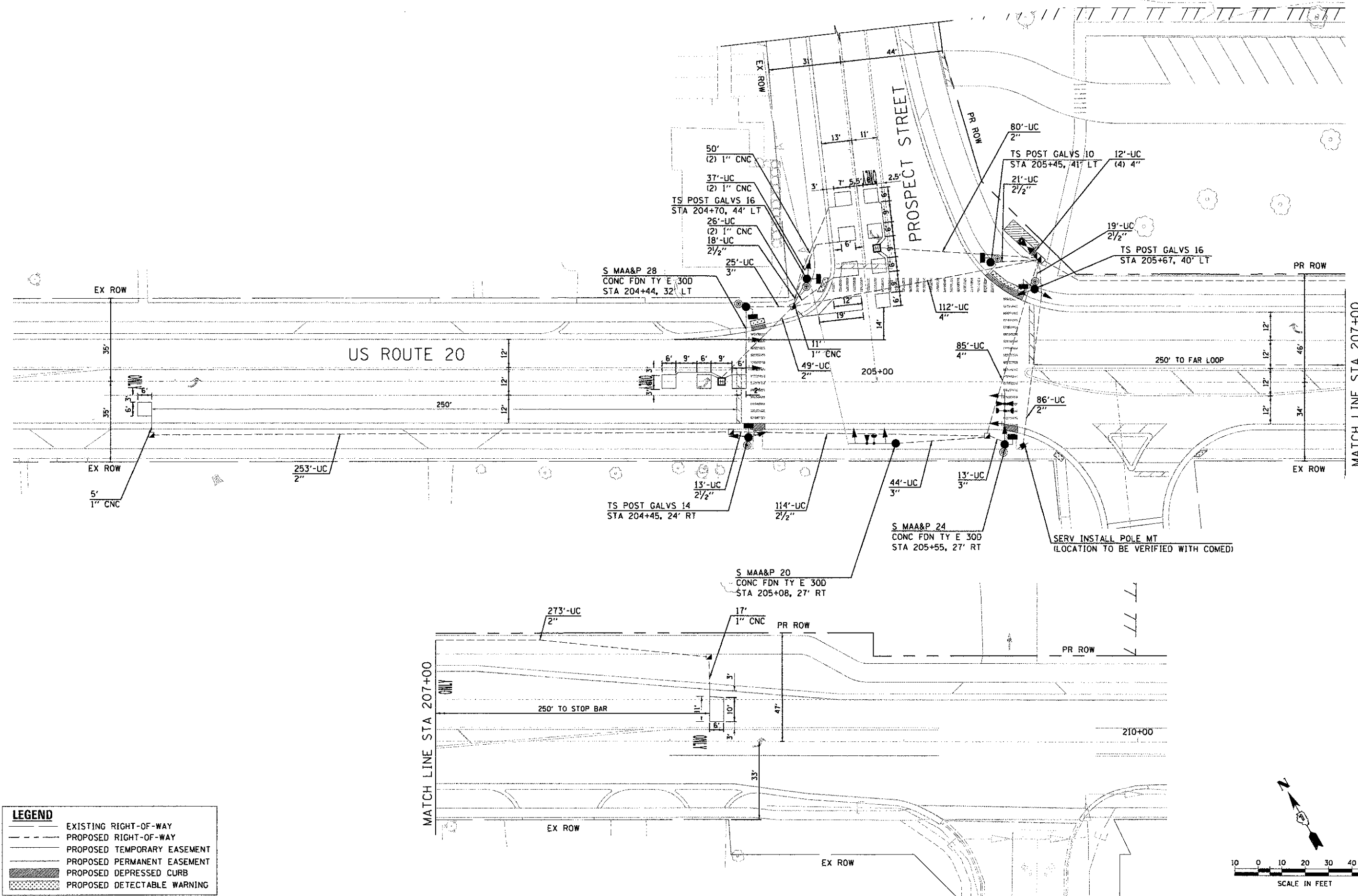
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COLLABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				CROSSING GATE			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSBUCK			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

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PROFILE	
NOTE BOOK	
NO.	

3/22/2013 11:59:58 AM
 539-5900b-us0203gn
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LEGEND

	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY EASEMENT
	PROPOSED PERMANENT EASEMENT
	PROPOSED DEPRESSED CURB
	PROPOSED DETECTABLE WARNING

USER NAME	sparnal
DESIGNED	JJS
DRAWN	JJS
CHECKED	TEH
DATE	2/5/13
REVISION	-
REVISION	-
REVISION	-
REVISION	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
 U.S. ROUTE 20 AT PROSPECT STREET**

SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. 200+50.00 TO STA. 210+00.00

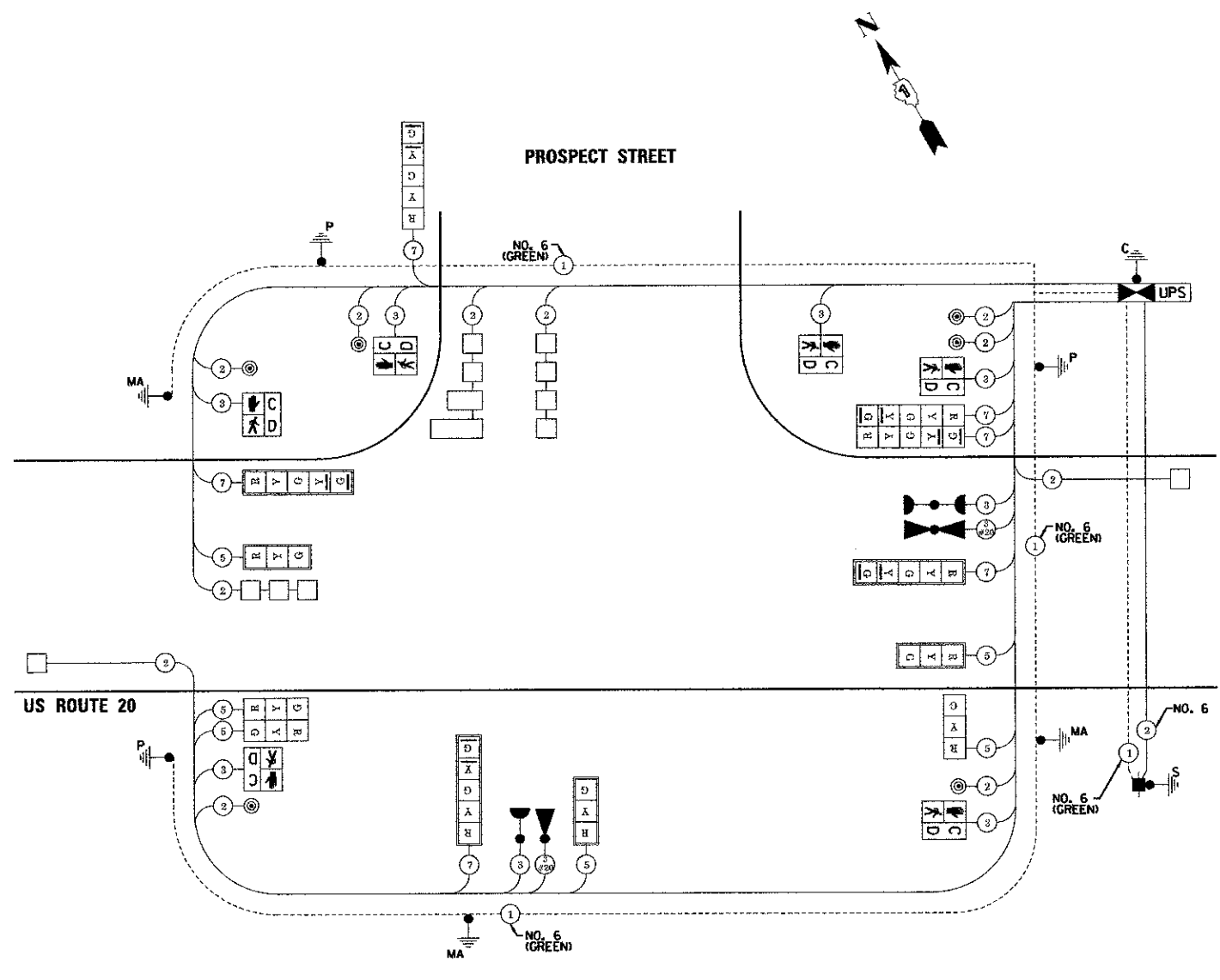
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
40B7	98-0024-00-WR	MCHENRY	115	65
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO.			63532	



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTES CHECKED	
	BY	
	NO. OF MAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTES CHECKED	
	BY	
	NO. OF MAY CHECKED	
	CADD FILE NAME	

2/26/2013 2:38:28 PM
 236-81916-00000000
 PLOT: (GREEN)
 PEN TABLE



CABLE PLAN

NOTE:
 THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM OR AN APPROVED EQUAL.

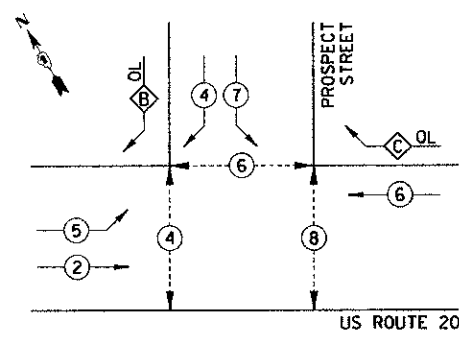
NOTE:
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	12		12	0.10	14.40
PEDESTRIAN SIGNAL	6		25	1.00	150.00
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
TOTAL =					501.40

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
 210 W. CENTER COURT
 SCHAMBURG, IL 60196

ENERGY SUPPLY CONTACT: MIKE LENOX
 PHONE: (815) 490-2896
 COMPANY: COMMONWEALTH EDISON

CONTROLLER SEQUENCE

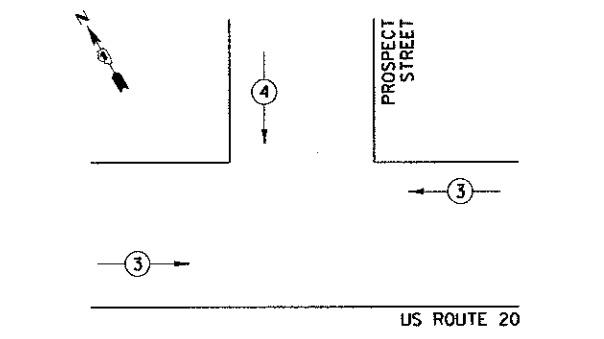


PHASE DESIGNATION DIAGRAM

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

← ⊕ →	DUAL ENTRY PHASE
← ⊕	SINGLE ENTRY PHASE
⊕ OL	OVERLAP
*	NUMBER REFERRING TO ASSOCIATED PHASE
← ⊕ →	PEDESTRIAN PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

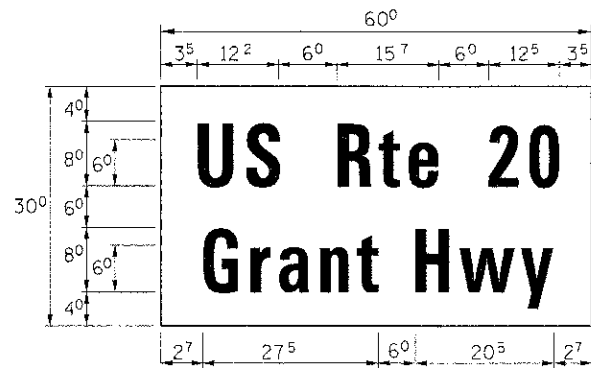


PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↓

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL
72000100	SIGN PANEL - TYPE 1	SQ FT	16.50
72000200	SIGN PANEL - TYPE 2	SQ FT	12.50
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	741.0
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185.0
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	82.0
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245.0
81400100	HANDHOLE	EACH	5
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,103.0
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,101.5
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,381.0
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,127.5
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 8 2C	FOOT	125.5
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	996.5
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16.0
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4.0
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30.0
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	5
88800100	DETECTOR LOOP, TYPE I	FOOT	441.5
88700200	LIGHT DETECTOR	EACH	3
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	387.0
XB620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1

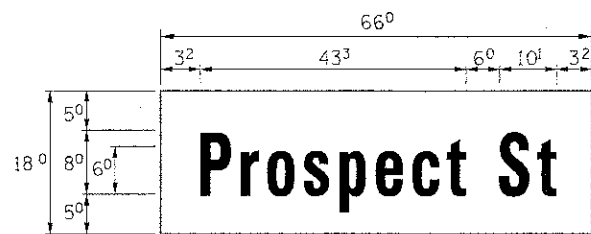
PANEL SIGN DESIGN TYPE 2



MA-2
12.50 Sq. Ft each
1 Required
Design Series D

NOTE: THESE SIGNS SHALL BE MOUNTED ON THE FRONT OF THE MAST ARM PER THE SINGLE ARM DETAIL AT RIGHT OR AS DIRECTED BY THE ENGINEER.

PANEL SIGN DESIGN TYPE 1



MA-1
8.25 Sq. Ft each
2 Required
Design Series D

NOTE: THIS SIGN SHALL BE MOUNTED ON THE MAST ARM IN ACCORDANCE WITH STANDARD 720016 OR AS DIRECTED BY THE ENGINEER.

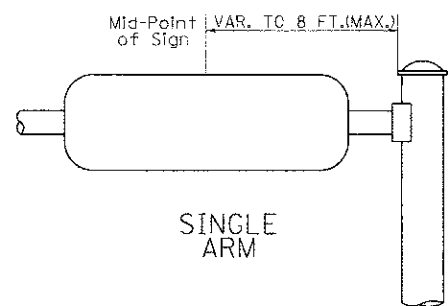
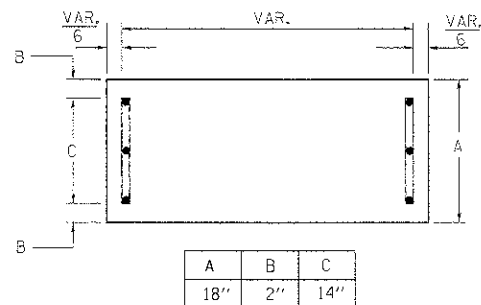
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

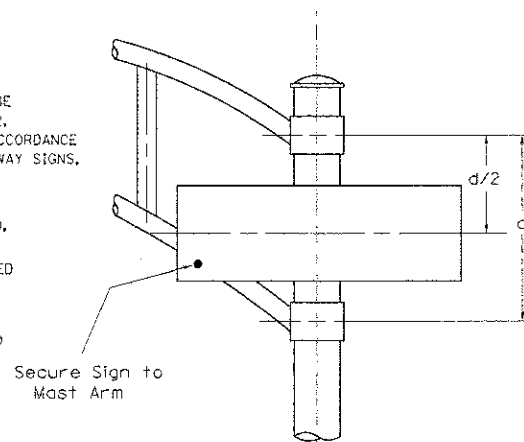
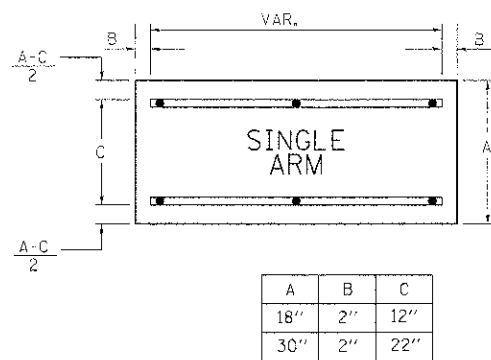
* J.O. HERBERT CO. MIDLOTHIAN, VA. * WESTERN REMAC INC. WOODRIDGE, IL.

PARTS LISTING:
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

SUPPORTING CHANNELS



SUPPORTING CHANNELS



DUAL ARM
SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 ③ DENOTES 3/8"

SERIES	SECOND LETTER															
	acce		bhikl		fw		j		st		vy		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O O R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	acce		bhikl		fw		j		st		vy		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
l m n q u	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
b f k o p s	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number
Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND LETTER																			
	0	1	2	3	4	5	6	7	8	9										
	C	D	C	D	C	D	C	D	C	D										
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	14	15	14	15	11	12	16	17	14	15	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	C	D	C	D		C	D
A	36	50	50	65	a	35	42
B	32	40	43	53	b	35	42
C	32	40	43	53	c	35	41
D	32	40	43	53	d	35	42
E	30	35	40	47	e	35	42
F	30	35	40	47	f	23	26
G	32	40	43	53	g	35	42
H	32	40	43	53	h	35	42
I	07	07	11	12	i	11	11
J	30	36	40	50	j	20	22
K	32	41	43	54	k	35	42
L	30	35	40	47	l	11	11
M	37	45	51	61	m	60	70
N	32	40	43	53	n	35	42
O	34	42	45	55	o	36	43
P	32	40	43	53	p	35	42
Q	34	42	45	55	q	35	42
R	32	40	43	53	r	26	32
S	32	40	43	53	s	36	42
T	30	35	40	47	t	27	32
U	32	40	43	53	u	35	42
V	35	44	47	60	v	42	47
W	44	52	60	70	w	55	64
X	34	40	45	53	x	44	51
Y	36	50	50	66	y	46	53
Z	32	40	43	53	z	36	43

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	53
4	35	43	47	57
5	32	40	43	53
6	32	40	43	53
7	32	40	43	53
8	32	40	43	53
9	32	40	43	53
0	34	42	45	55

DATE	
BY	
PROJECT	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	

DATE	
BY	
PROJECT	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	

2/8/2013 11:03 PM
E:\316040-00-00-00-00
P:\316040-00-00-00-00
316040-00-00-00-00



USER NAME	spornel
DESIGNED	JJS
DRAWN	JJS
CHECKED	TEH
PLCT DATE	2/8/2013

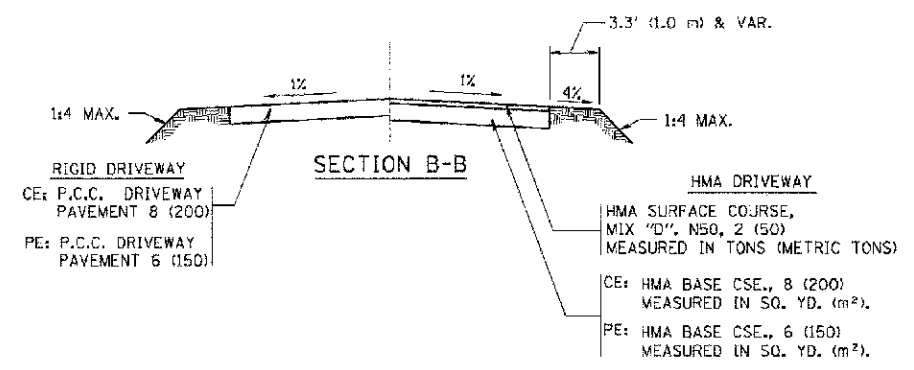
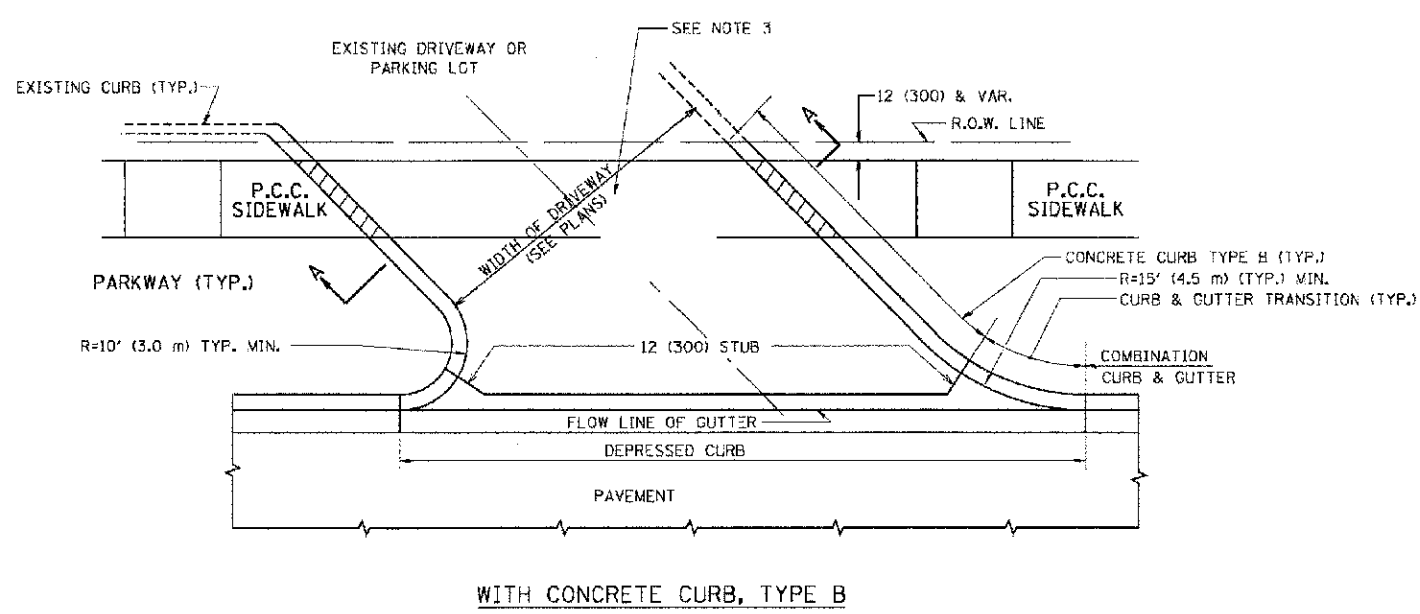
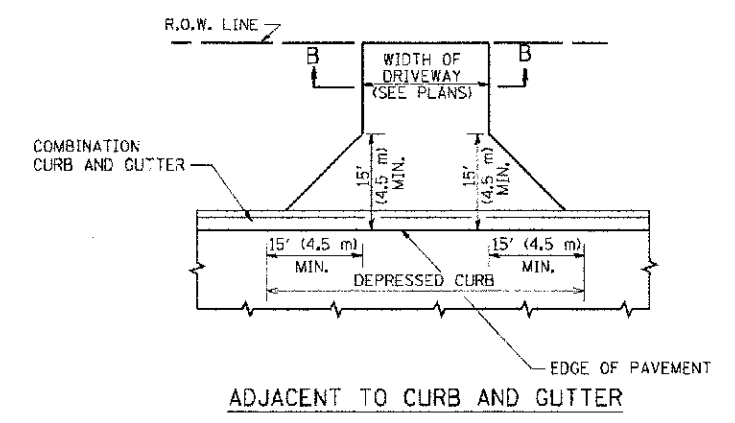
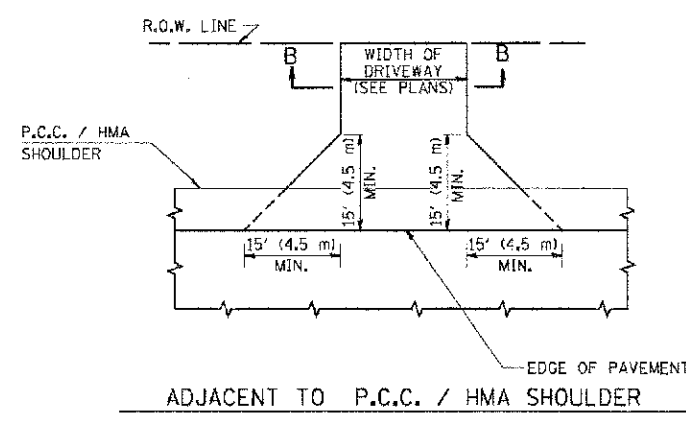
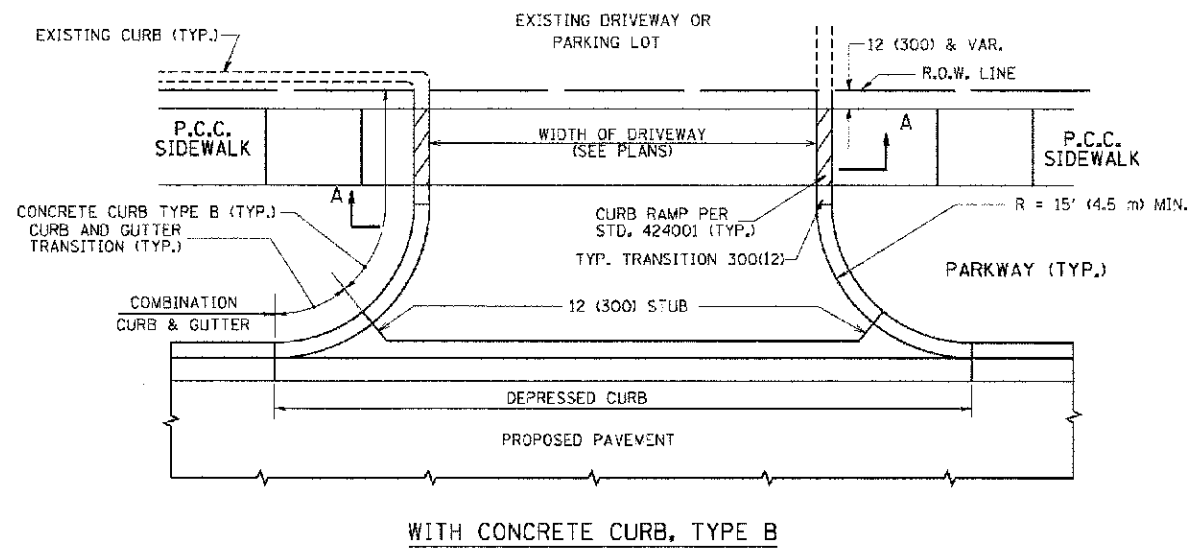
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME AND SIGNS
U.S. ROUTE 20 AT PROSPECT STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
40B7	98-0024-00-WR	MCHENRY	115	67
CONTRACT NO.			63532	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

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.

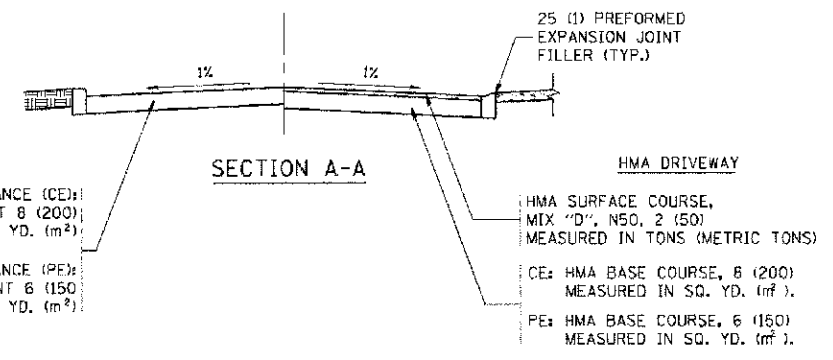
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 2/9/2011 1:32:05 AM
 FILE NAME: 636.dwt130.dgn
 PLOT DRIVER: pdr1.yxdw
 PLOT DATE: 2/9/2011



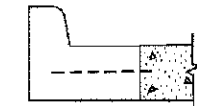
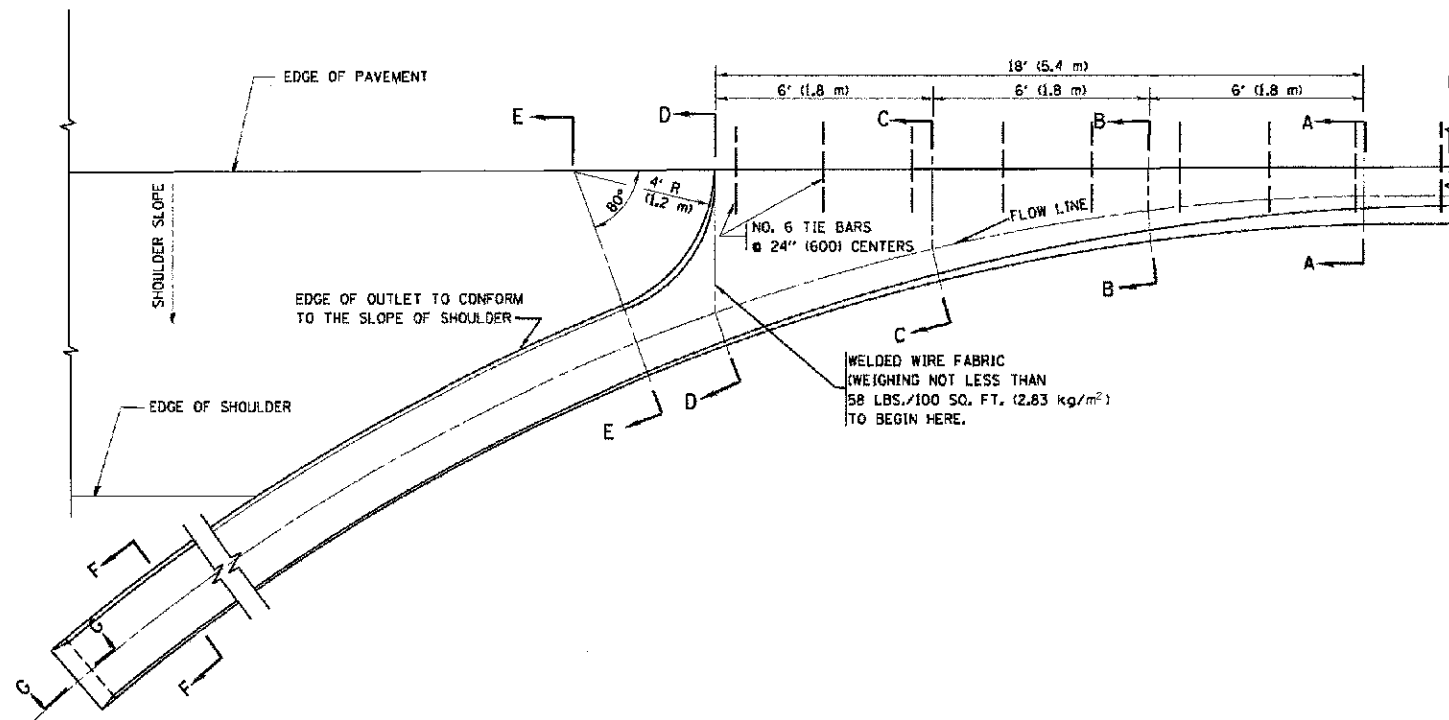
USER NAME: Joge	DESIGNED: R. SHAH	REVISED: P. LaFLUER 04-15-03
PLOT SCALE: 1/8"=1'-0"	DRAWN: R. BORO 01-01-07	REVISED: R. BORO 06-11-08
PLOT DATE: 2/9/2011	CHECKED: R. BORO 06-11-08	REVISED: R. BORO 09-06-11
	DATE: 11-04-95	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
 AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**

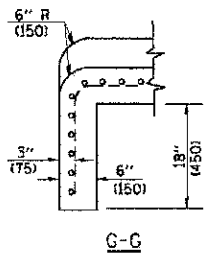
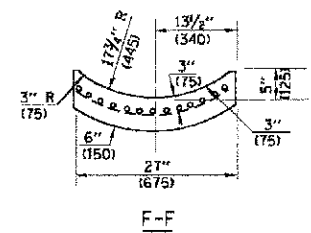
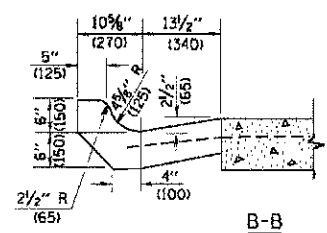
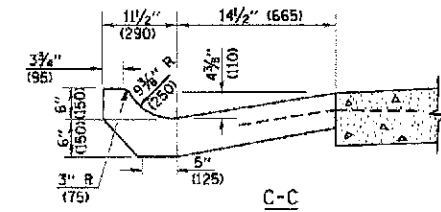
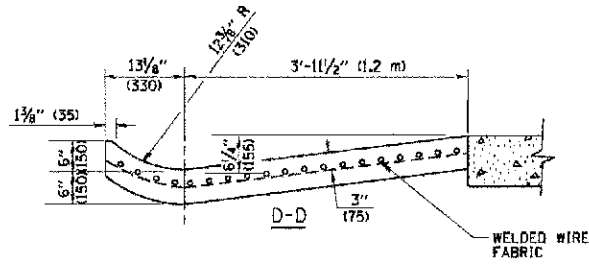
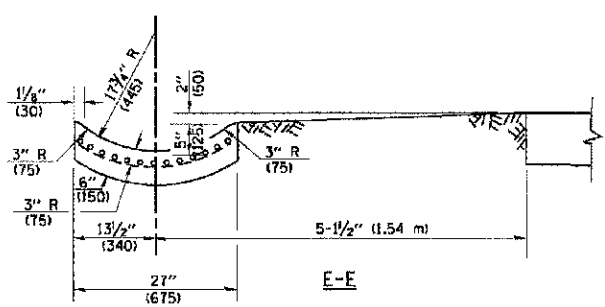
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.M. R.F.E.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	68
BDD156-07 (BD-01)		CONTRACT NO. 63532		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\"/>

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL -
 1.25 CU. YDS. (0.96 m³) CLASS 51 CONCRETE (OUTLET) FOR 9\"/>

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

2/8/2013 12:20 AM
 636.00730.000
 PLOT DRIVER: PLOT_344817
 STATE OF ILLINOIS

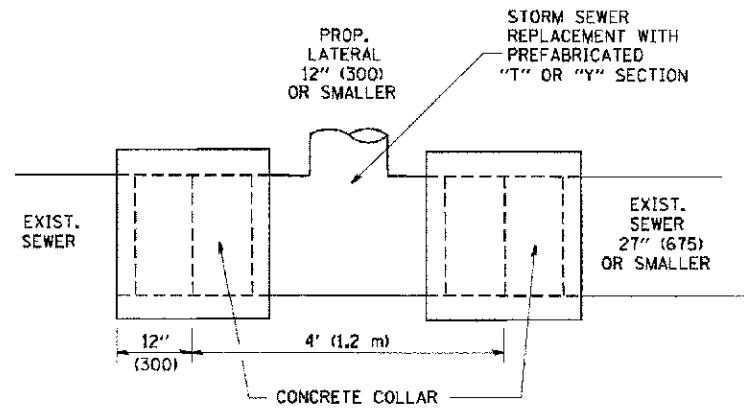
COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
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 PLOT DRIVER: PLOT_344817
 PLOT SCALE: 1/4\"/>

USER NAME = gsg,je-ot	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94
	DRAWN -	REVISED - R. SHAH 10-25-94
PLOT SCALE = 60.0000' / IN.	CHECKED -	REVISED - E. GOMEZ 12-21-00
PLOT DATE = 1/4/2008	DATE = 08-04-86	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

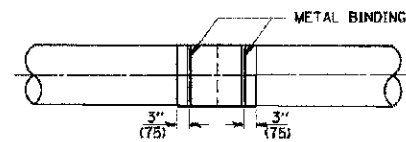
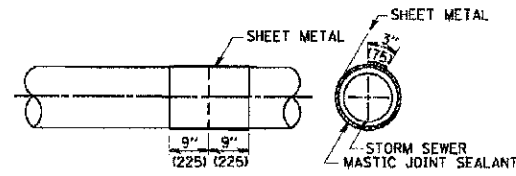
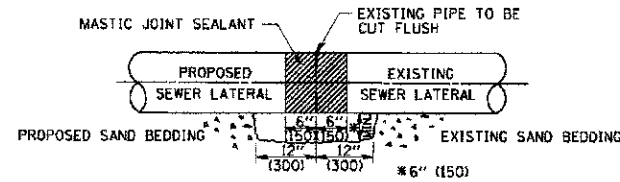
SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	70
BD600-01	(BD-03)	CONTRACT NO.	63592	
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



DETAIL "A"

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

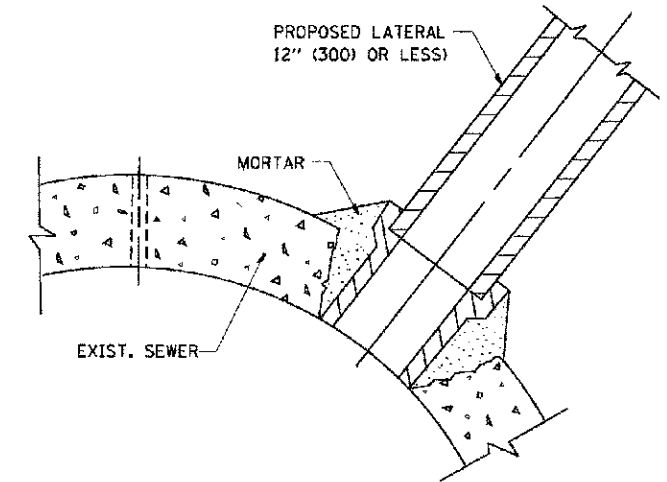


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 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.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 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

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

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 PROJECT CONTACT: HRGreen.com
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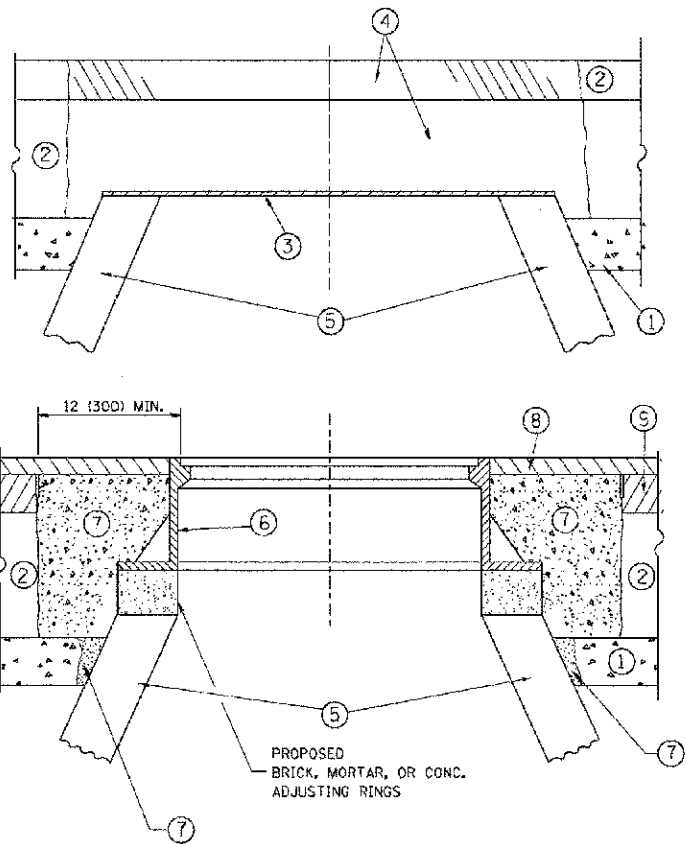


USER NAME = geglennob	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
PLOT SCALE = 500.000 / 1 in.	DRAWN -	REVISED - R. SHAH 09-09-94
PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. SHAH 10-25-94
	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			
SCALE: NONE	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	71
BD500-01 (BD-7)		CONTRACT NO. 63532		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS,

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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 PROJECT CONTACT: HRGreen.com
 CLIENT: Illinois Professional Design Firm
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 PLOT DATE: 12/6/2011

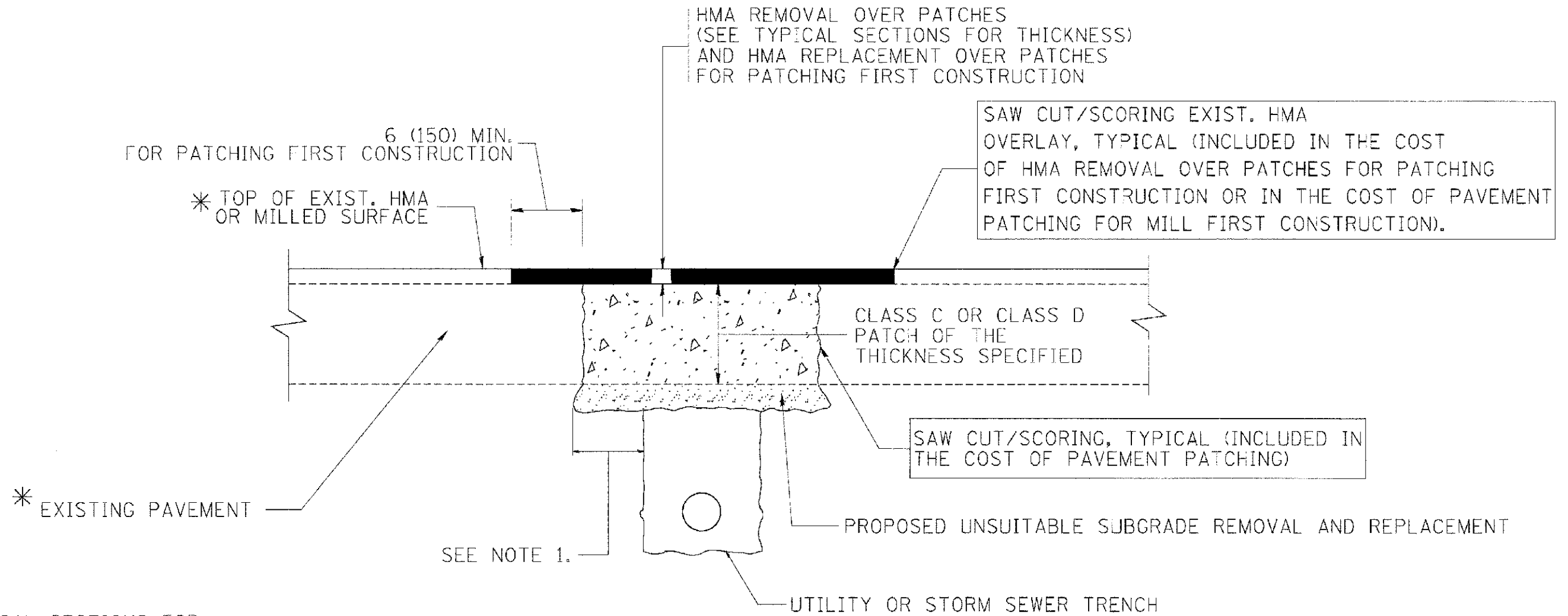
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
 FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	72
BD600-03 (BD-8)			CONTRACT NO. 63532	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* 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.

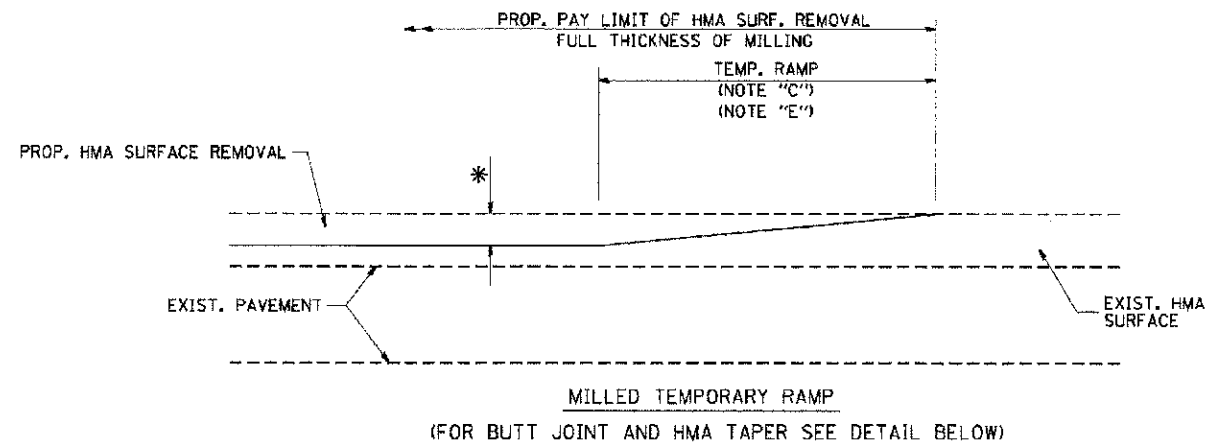
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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.

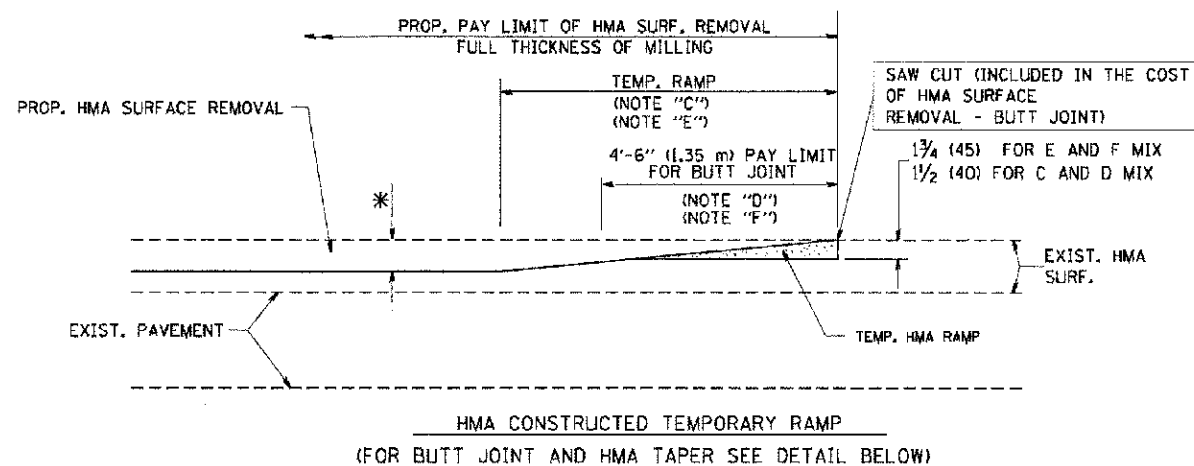
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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 PROJECT CONTACT: HRGreen.com
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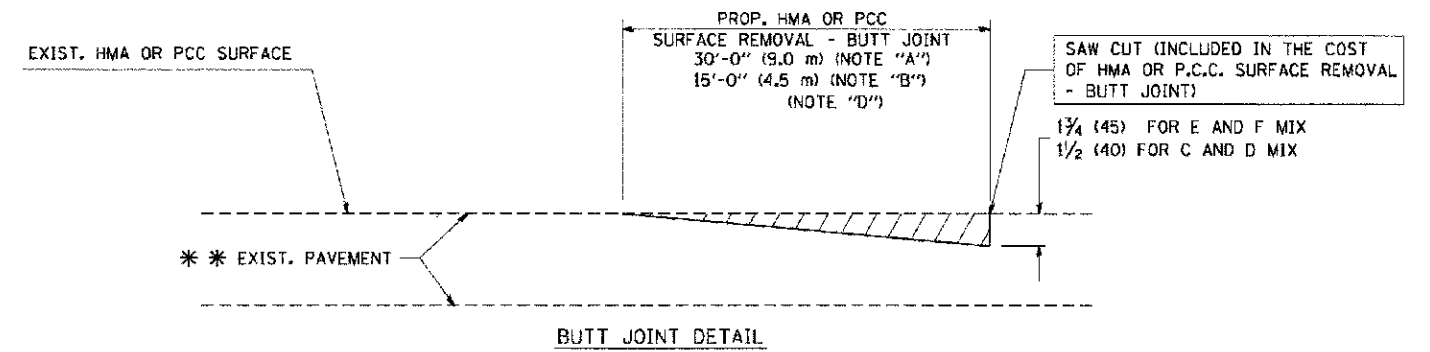
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	SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FEDERAL AID PROJECT					



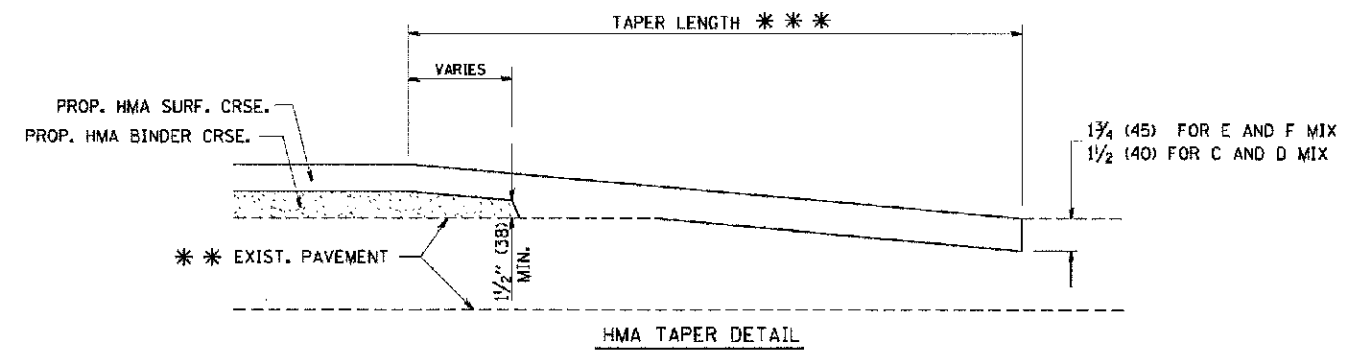
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

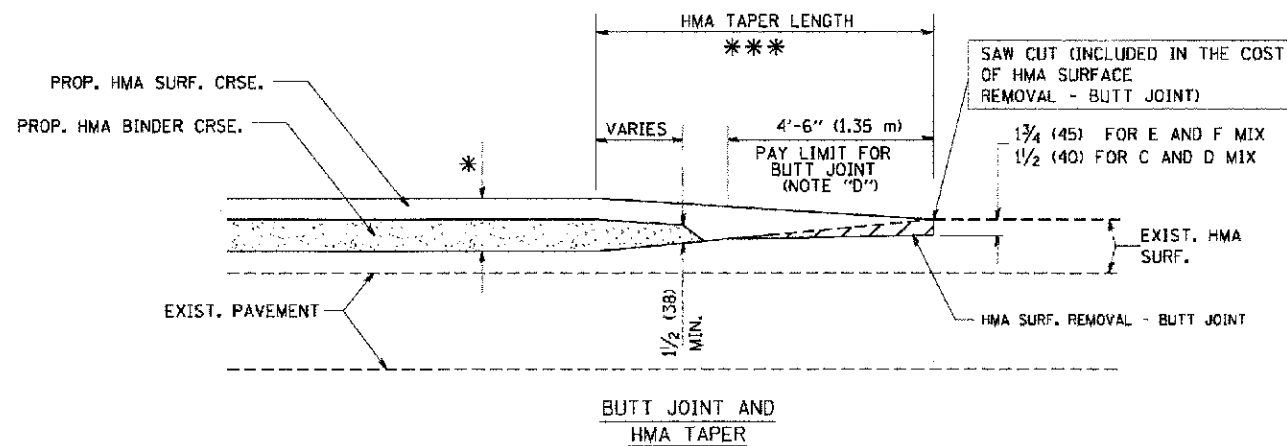
NOTES

- 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.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

COMPANY NAME: HRGreen.com
PROJECT CONTACT: gajlenobt
CLIENT: HRGreen.com
DATE PLOTTED: 2/9/2015 10:50:07 AM
FILE NAME: 638.dwg
PLOT DATE: 1/4/2008

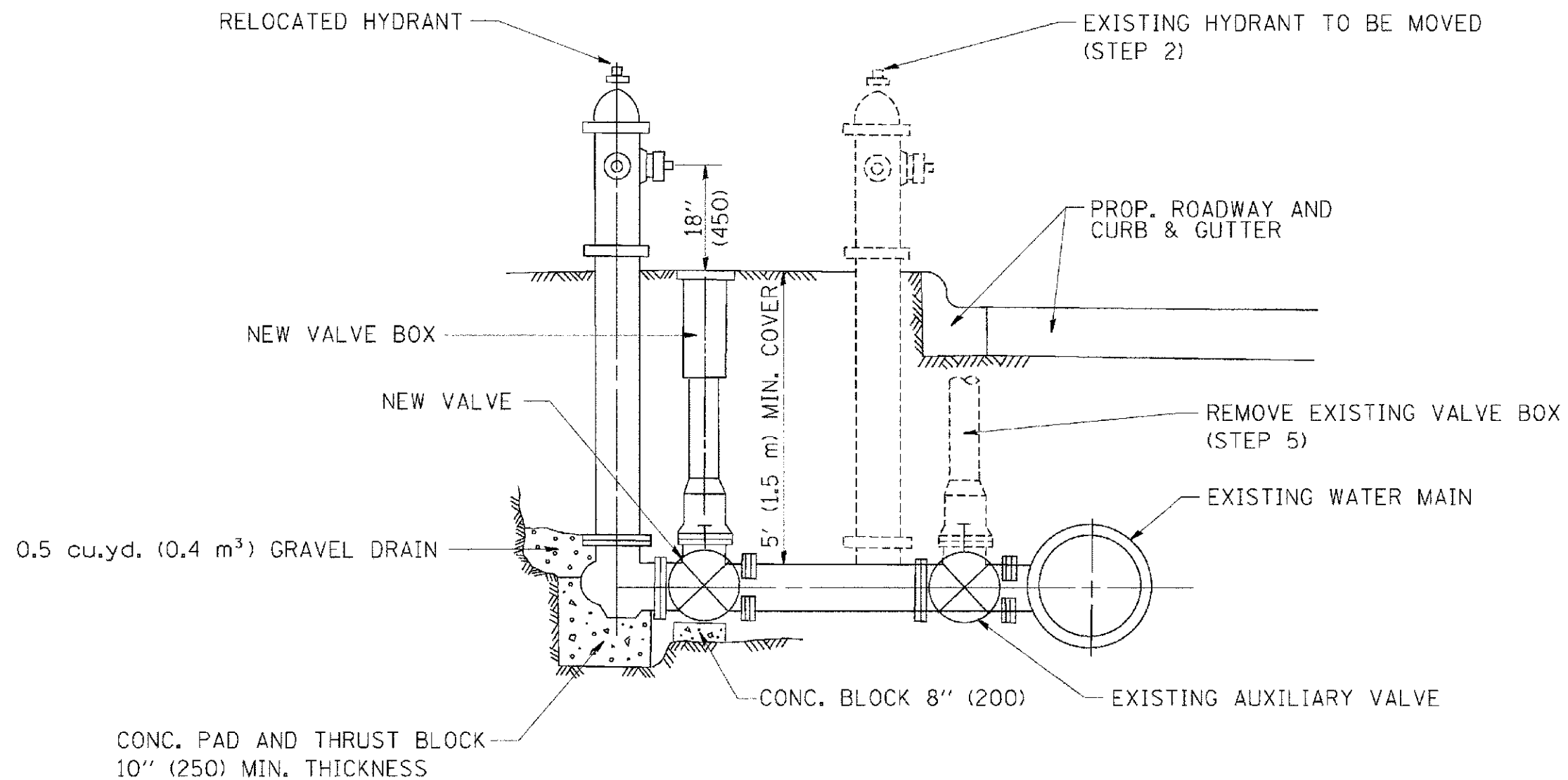


USER NAME = gajlenobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLT SCALE = 1/8" = 1'-0"	DRAWN - A. ABBAS 03-21-97	REVISED - M. GOMEZ 04-06-01
PLT DATE = 1/4/2008	CHECKED -	REVISED - R. BORO 01-01-07
	DATE = 06-13-90	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. OF SHEETS STA. TO STA.

F.A.V. RTE. 408T	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 75
BD400-05 BD32		CONTRACT NO. 63532		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
 FILE NUMBER: 58-00024-00-WR
 PLOTTING: 1/4/2009
 PLOT DATE: 1/4/2009

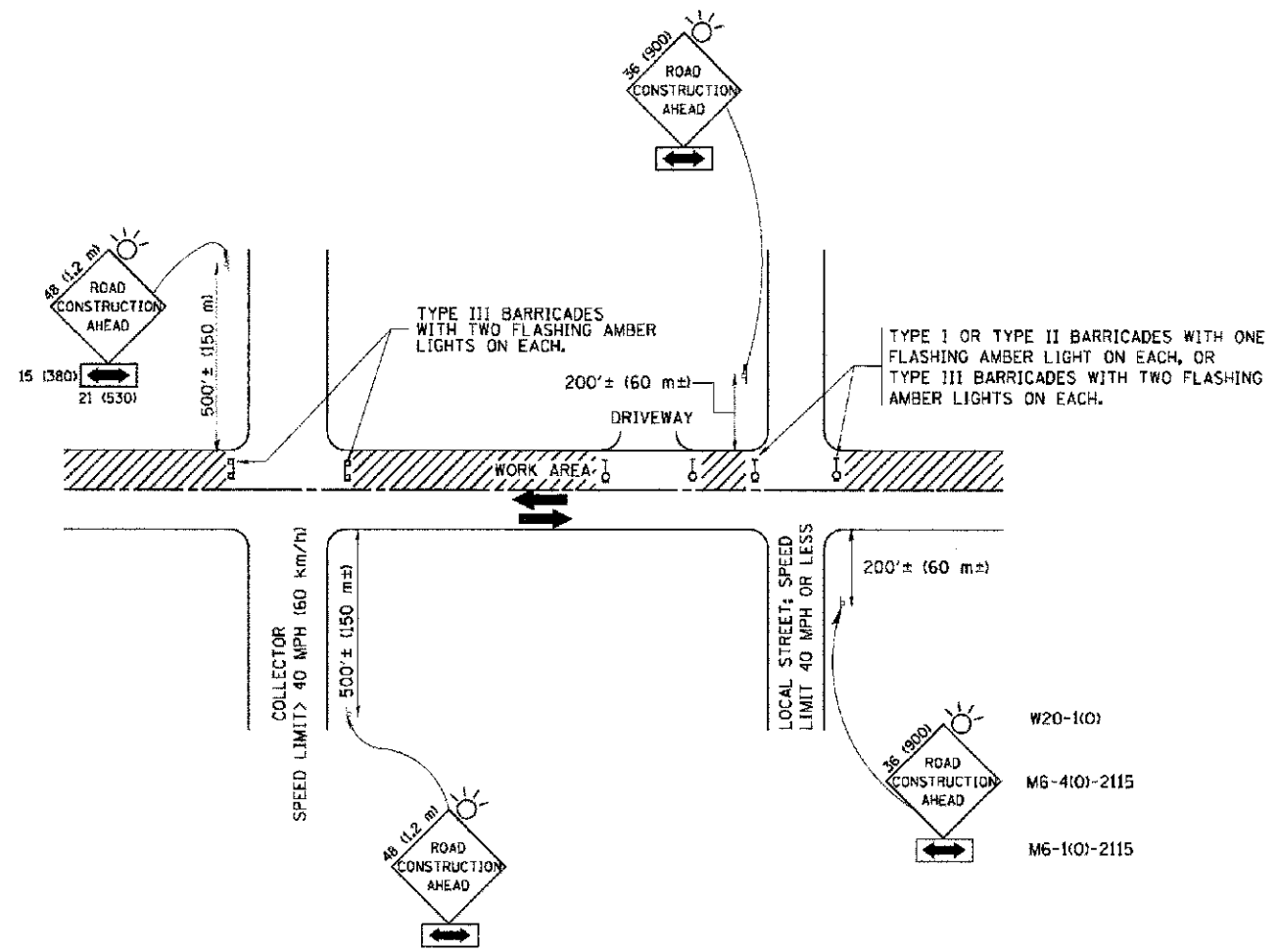


USER NAME - gegljanobit	DESIGNED -	REVISED - R. SHAH 09-09-94
	DRAWN -	REVISED - R. SHAH 10-25-94
PLOT SCALE - 50,0000 1/16 IN.	CHECKED -	REVISED -
PLOT DATE - 1/4/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 4087	SECTION 58-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 76
BD-36			CONTRACT NO. 63532	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

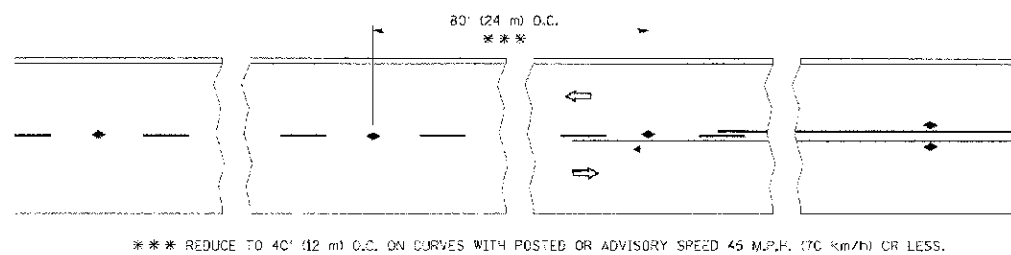
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 CLIENT: HRGreen
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 FILE NAME: 638.dwg
 PLOT DATE: 1/4/2008
 PLOT SCALE: 68.200 1/4 IN.
 USER: geglencbt
 USER NAME: geglencbt

DESIGNED	LHA	REVISION	J. OBERLE 10-18-95
DRAWN	-	REVISION	A. HOUSEH 03-06-96
CHECKED	-	REVISION	A. HOUSEH 10-16-96
DATE	06-89	REVISION	T. RAMMACHER 01-06-00

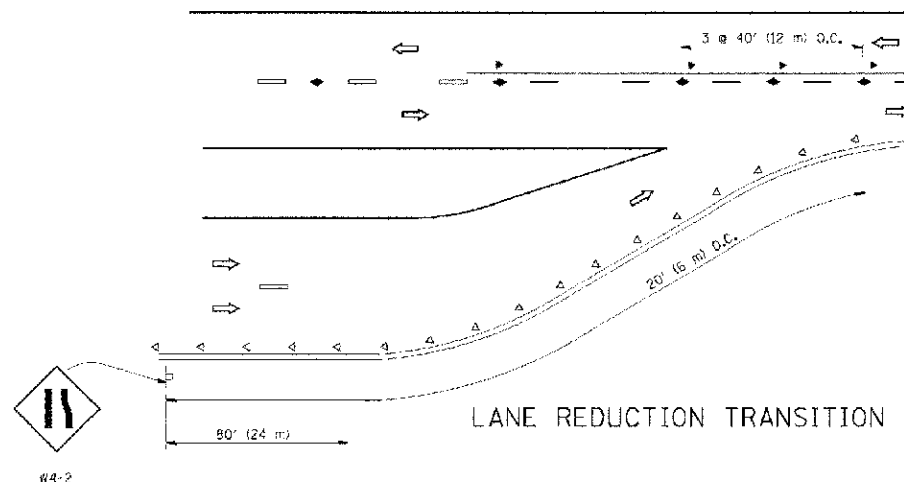
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

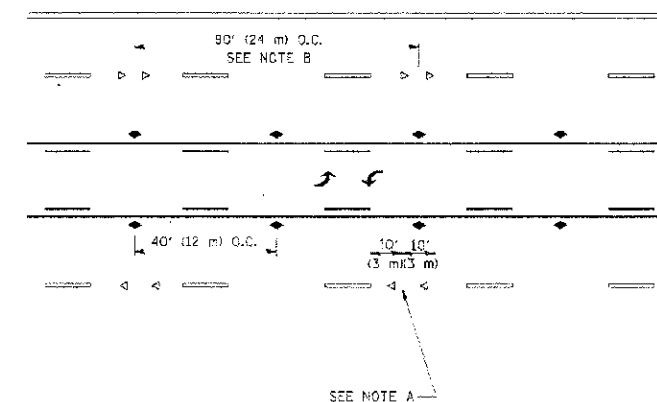
F.A. & RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	77
TC-10			CONTRACT NO. 63532	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



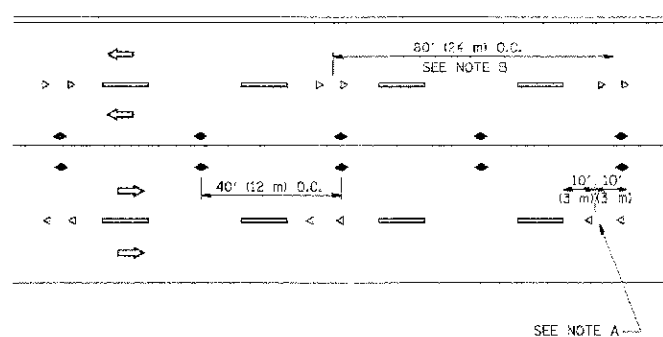
TWO-LANE/TWO-WAY



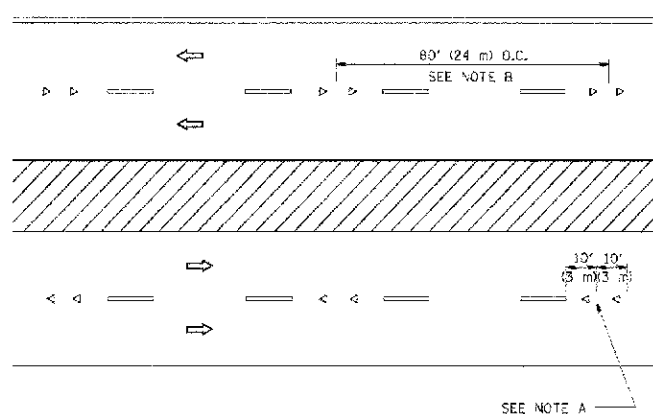
LANE REDUCTION TRANSITION



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

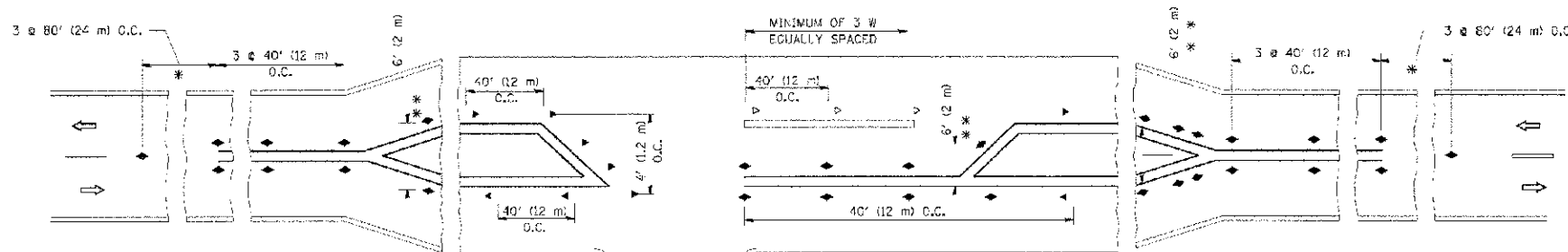
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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.

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.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 2/6/2013 13:32:30 AM
 FILE NAME: E35_06140.dgn
 PLOT DRIVER: pctv_jydrf
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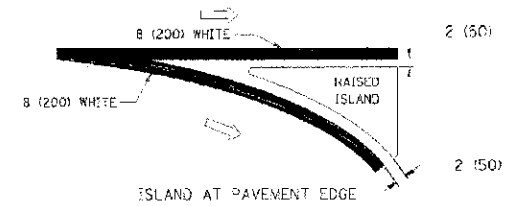
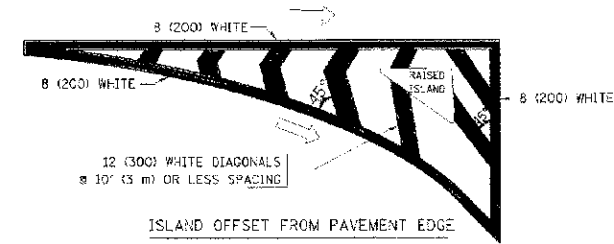
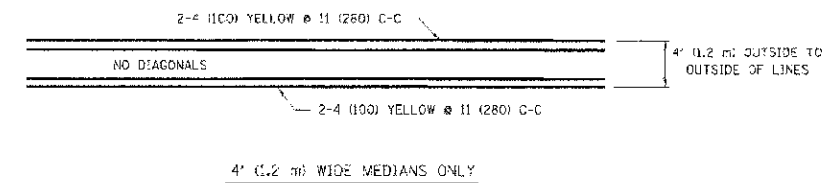
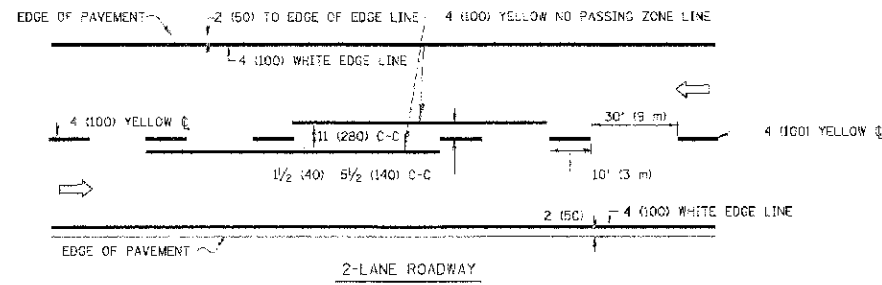


USER NAME: Administrator	DESIGNED: -	REVISED: - T. RAMMACHER 09-19-94
CLIENT: HRGreen.com	DRAWN: -	REVISED: - T. RAMMACHER 03-12-99
PROJECT: 98-00024-00-WR	CHECKED: -	REVISED: - T. RAMMACHER 01-06-00
DATE: 11/17/2007	DATE: -	REVISED: - C. JUCIUS 09-09-09

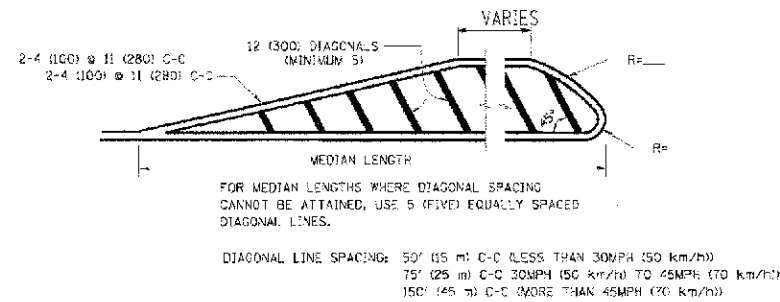
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

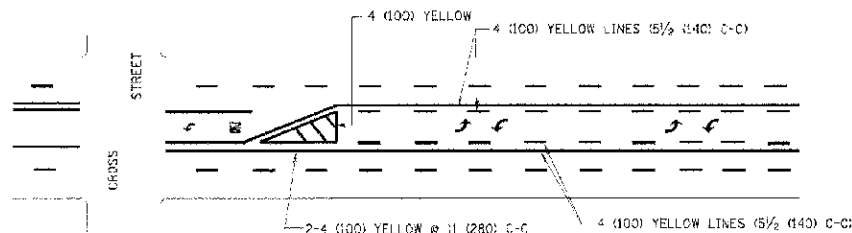
F.A.M. PTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-00024-00-WR	MCHENRY	115 78
TC-11			CONTRACT NO. 63532
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



TYPICAL ISLAND MARKING



MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



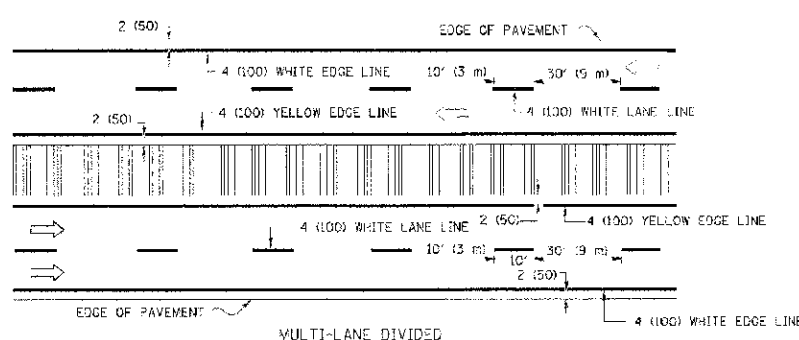
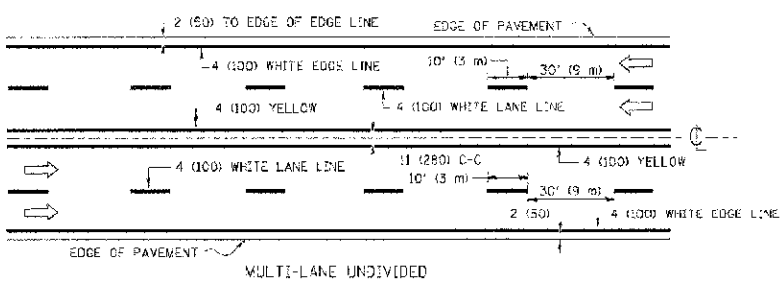
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C ON IT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN, A. DIAGONALS (BIKE & EQUESTRIAN), B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "RR"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

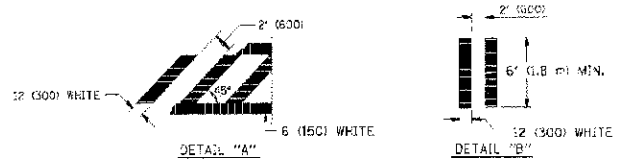
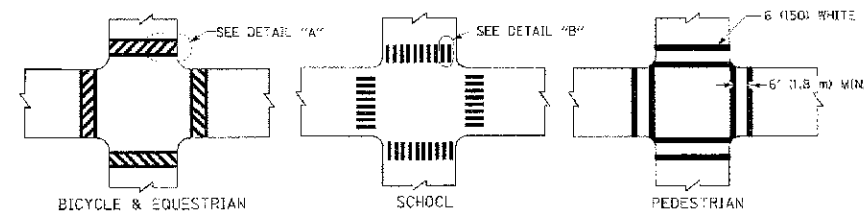
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

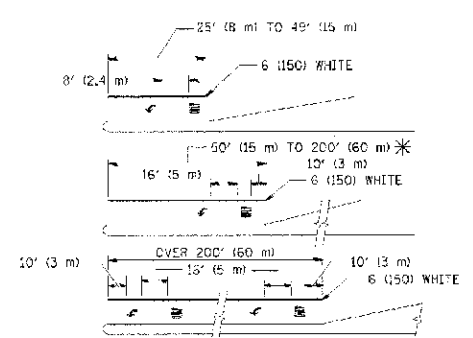


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



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

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001372
DATE PLOT FILE: 2/9/2013 1:33:36 AM
FILE NAME: 638.dwg
PLOT DRIVER: pntL_yuplt
PEN TABLE: standard-trans.tbl



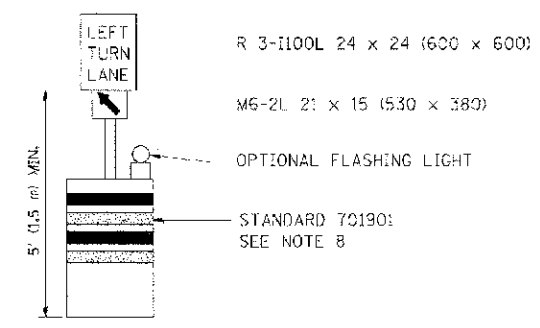
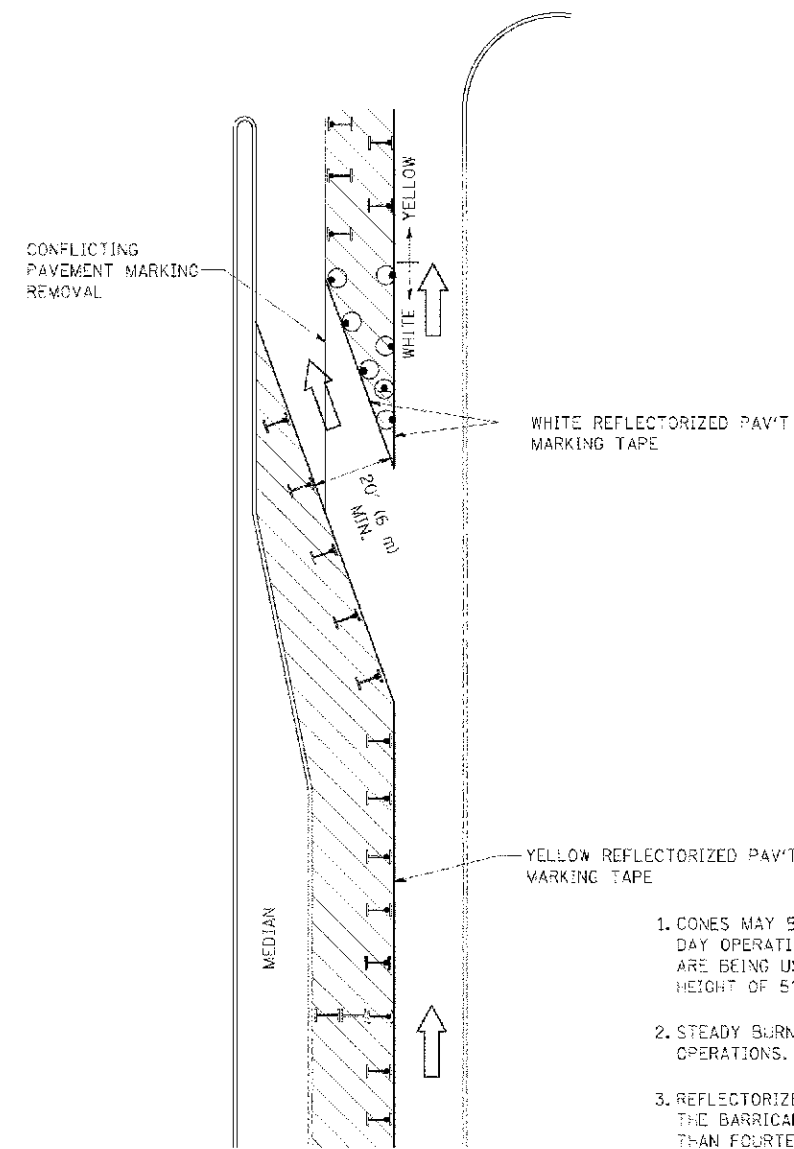
USER NAME: gmsw@hrgreen.com
DESIGNED: EVERS
DRAWN: T. RAMMACHIER 10-27-94
CHECKED: C. JUCIUS 09-09-08
DATE: 03-19-90

REVISIONS:
REVISED: T. RAMMACHIER 10-27-94
REVISED: C. JUCIUS 09-09-08
REVISED: -
REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

FULL R.F.E. SECTION COUNTY TOTAL SHEET NO.
4087 98-00024-00-WR MCHENRY 115 79
CONTRACT NO. 63532
FED. ROAD DIST. NO. : ILLINOIS FED. AID PROJECT

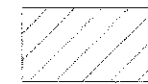







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #184-001322
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/9/2013 1:35:59 AM
 FILE NAME: 638.dwt-41e.dgn
 PEN TABLE: pen.tbl
 STANDARD: 17rns.tbl



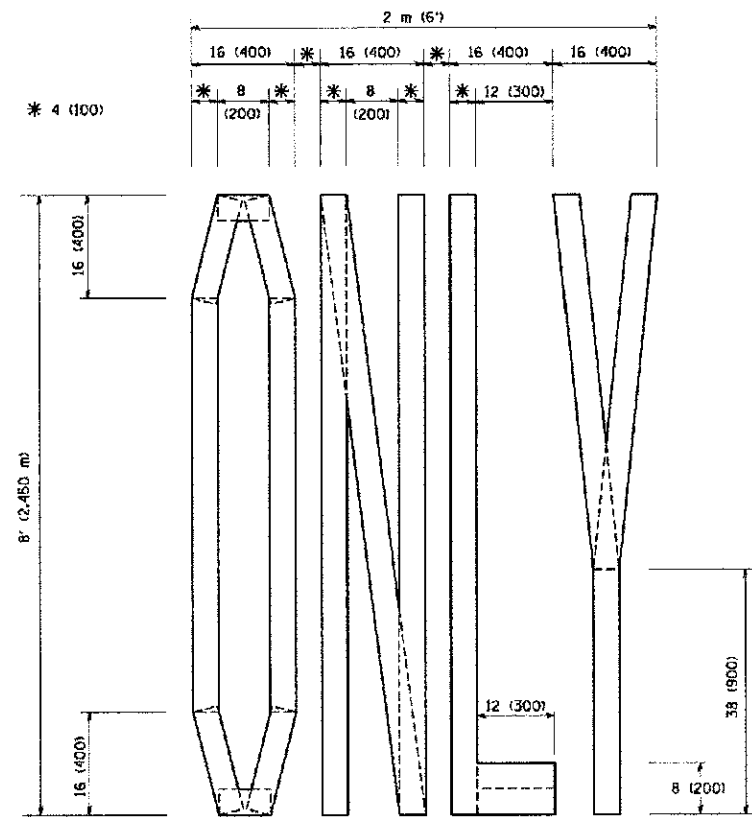
USER NAME: drc@hrgreen.com	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
PLOT SCALE: 1/8" = 1'-0"	REVISED - A. HOUSEH 11-07-95	REVISED -
PLOT DATE: 9/24/2009	REVISED - A. HOUSEH 10-12-96	REVISED -
	REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

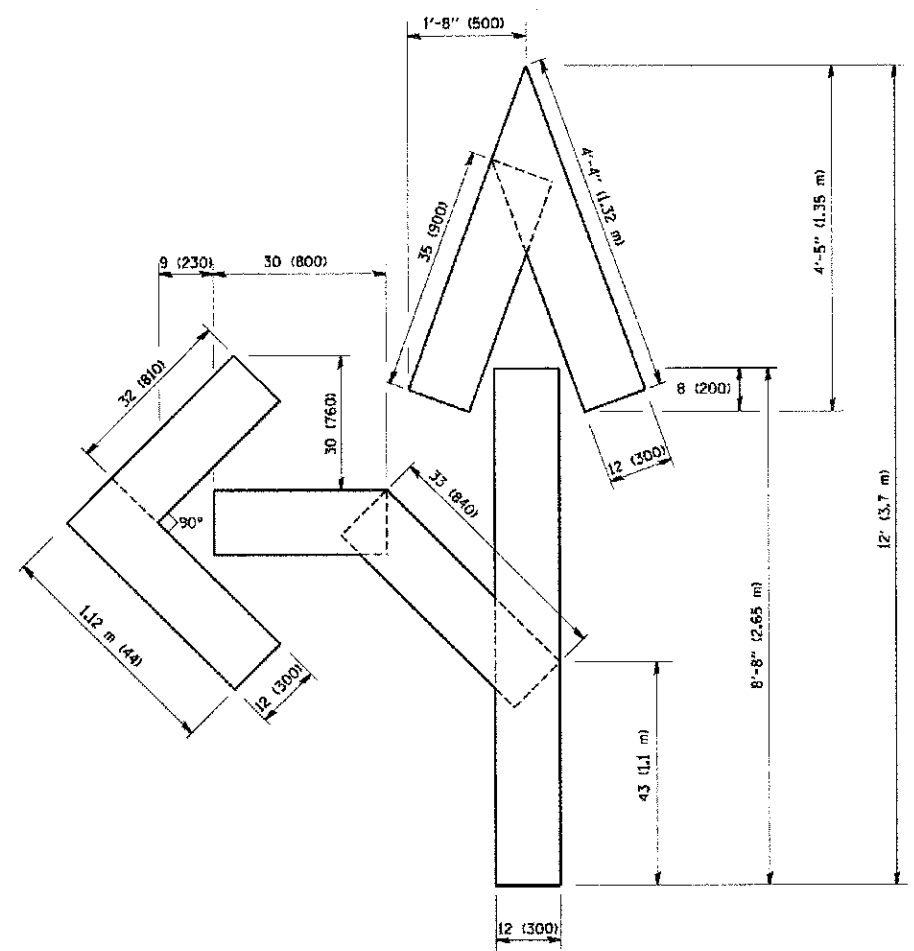
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

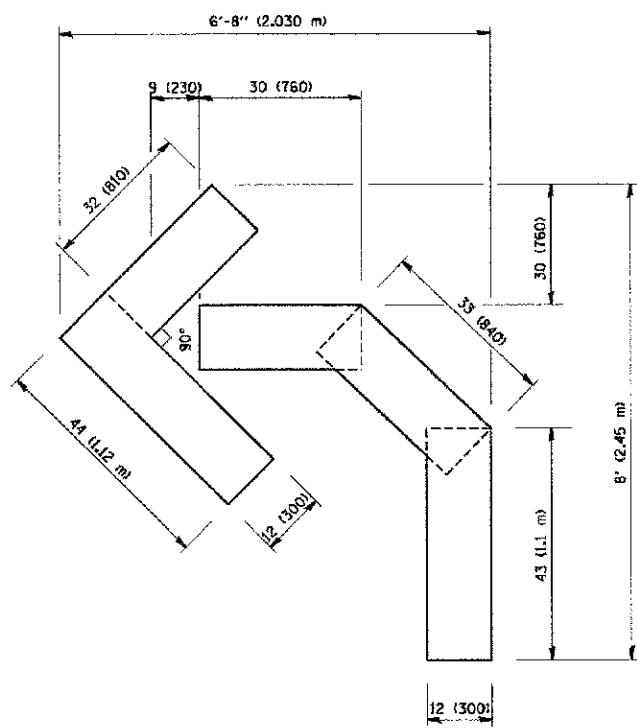
F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-00024-00-WR	MCHENRY	115 80
TC-14		CONTRACT NO. 63532	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



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.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: gregg@hrgreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/9/2013 10:40:00 AM
 FILE NAME: 638_08142.dwg
 PLOT DRIVER: pdfplot
 PEN TERN: E



USER NAME - gregg@hrgreen.com	DESIGNED -	REVISED - T. RAMMACHER 06-05-96
PLOT SCALE = 50.0000" / 1"	DRAWN -	REVISED - T. RAMMACHER 11-04-97
PLOT DATE = 1/4/2008	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. OF SHEETS STA. TO STA.

F.A.N. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	MCHENRY	115	81
TC-16		CONTRACT NO. 6353A		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

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

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

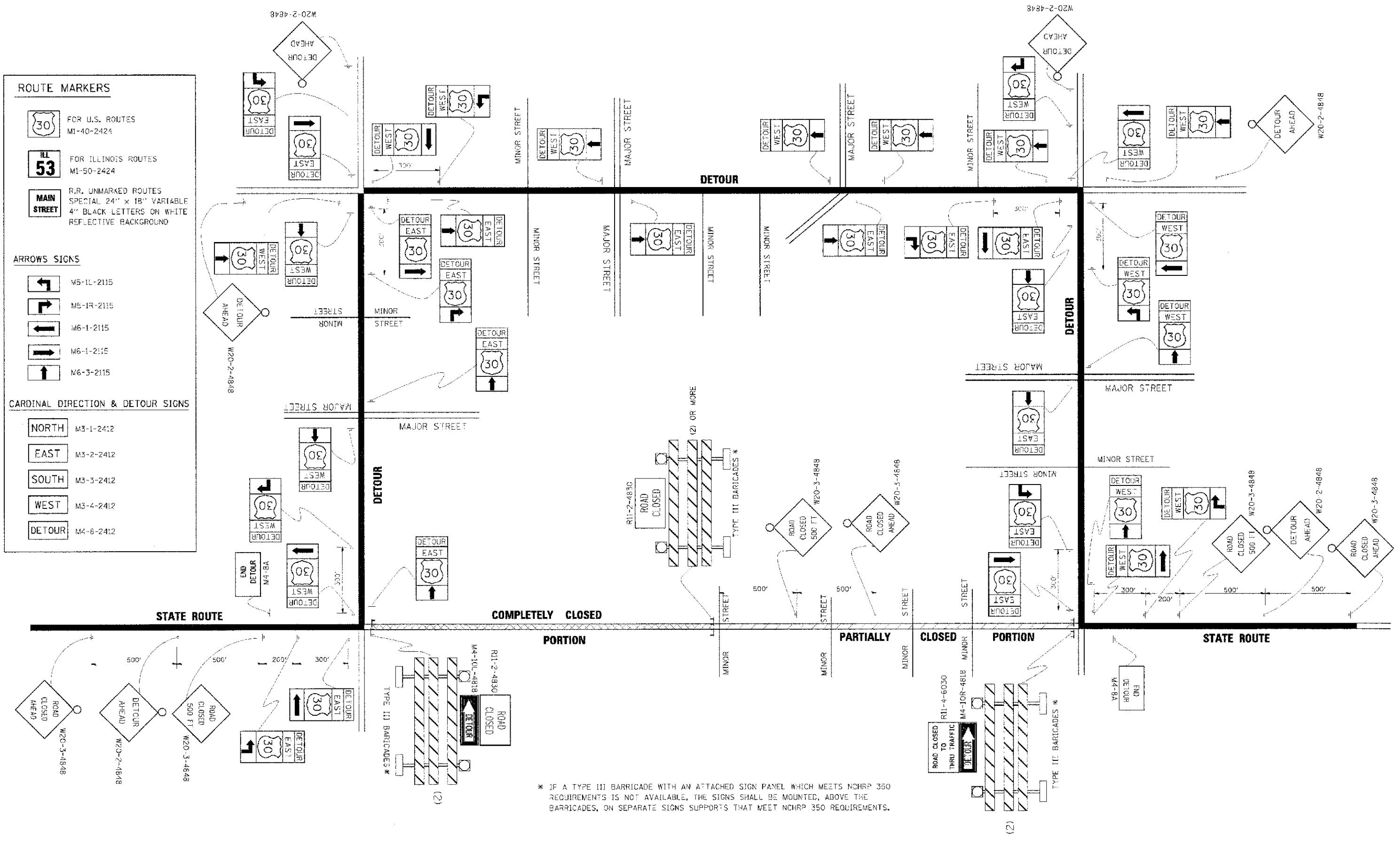
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-6-2412



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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE: 10/18/08
 FILE NAME: 638_001430.dgn
 PLOT DRIVER: pct_yvz@hrgreen.com
 PEN TABLE: 638_001430.tbl

DESIGNED -	REVISOR -	10-18-08
DRAWN -	REVISOR -	R. BORO 03-14-08
CHECKED -	REVISOR -	
DATE -	REVISOR -	

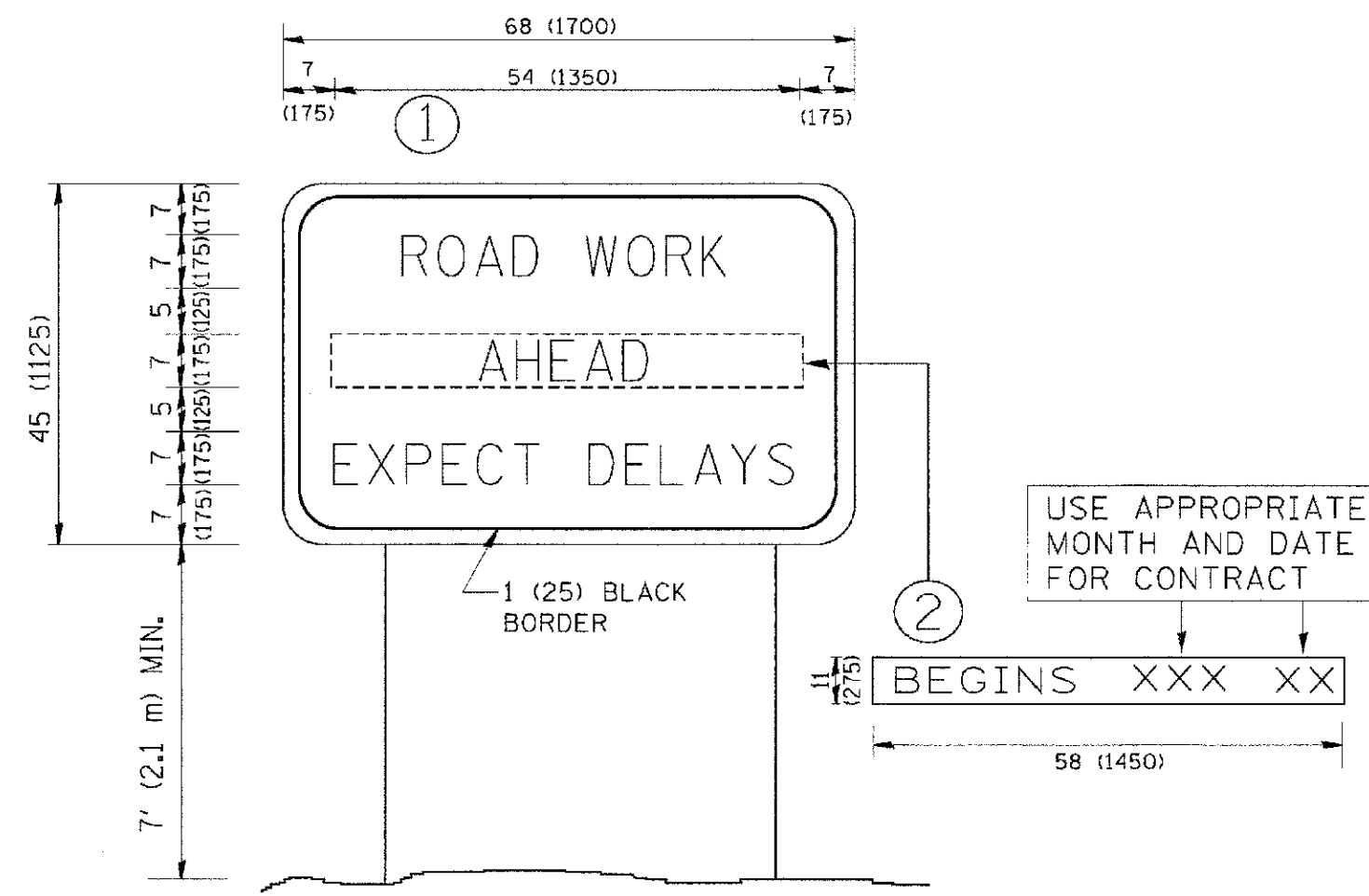
USER NAME -	DESIGNED -	REVISOR -	10-18-08
PLCT SCALE -	DRAWN -	REVISOR -	R. BORO 03-14-08
PLCT DATE -	CHECKED -	REVISOR -	
	DATE -	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-00024-00-WR	MCHENRY	115 82
TC-21		CONTRACT NO. 63532	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



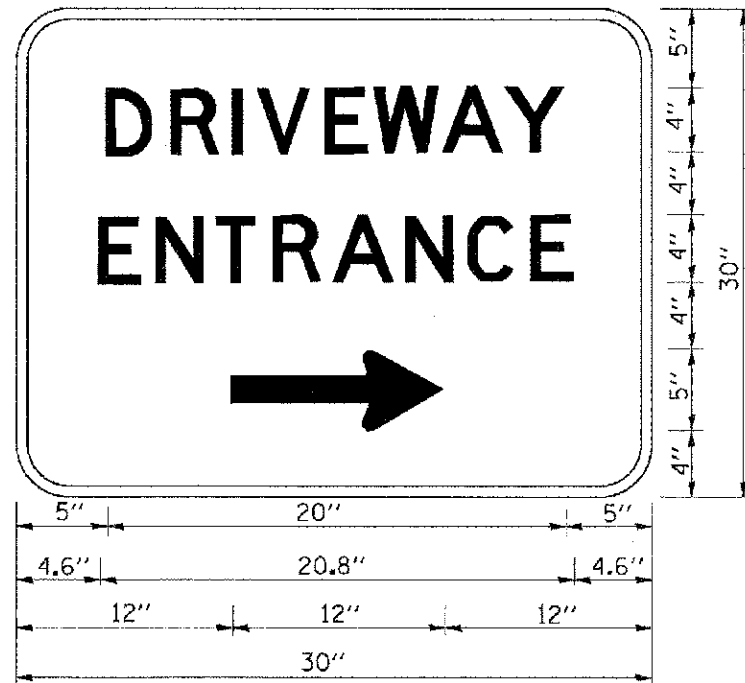
NOTES:

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

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

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #184-001322
 CLIENTS: #184-001322
 DATE PLOTTED: 2/8/2013 1:56:44 AM
 FILE NAME: 638_06r43.dgn
 PLOT DEVICE: pdf2400p
 PLOT TABLE: standard-trans.tbl

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	SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



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".

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 CLIENT: HRGreen.com
 DATE PLOTTED: 2/8/2013 10:36:21 AM
 FILE NAME: E:\020814.dgn
 PLOT DRIVER: pdf_vcalif
 PEN TABLE: standard.ctb



USER NAME = gaganobt	DESIGNED -	REVISED - C. JUCIUS 02-16-07
PLD: SCALE = 1/4" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 1/4/2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

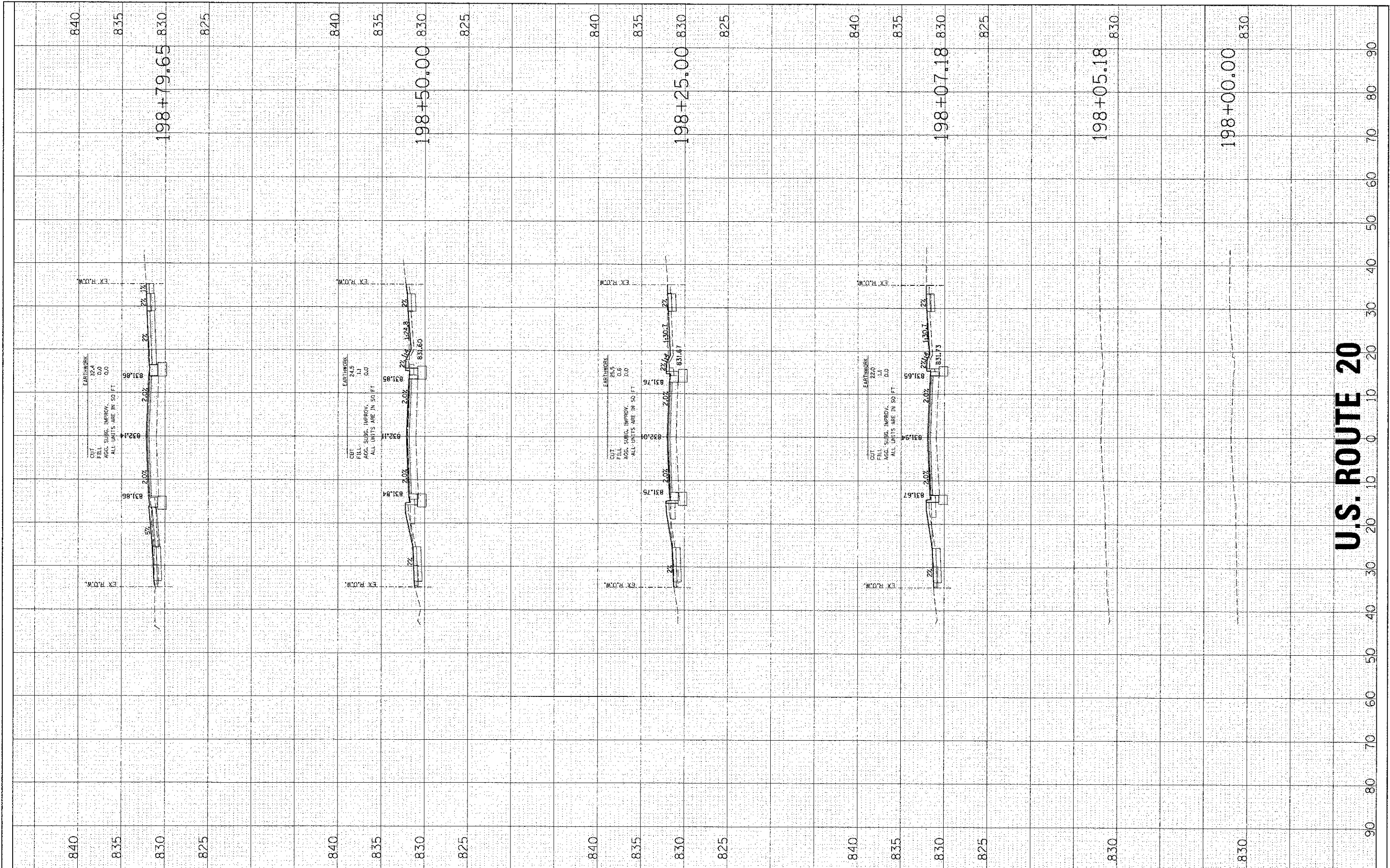
DRIVEWAY ENTRANCE SIGNING

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

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
4087	98-00024-00-WR	MCHENRY	115 84
TC-26			CONTRACT NO. 63532
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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

ORIGINAL SURVEY	BY	DATE
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U.S. ROUTE 20

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USER NAME = spernal	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

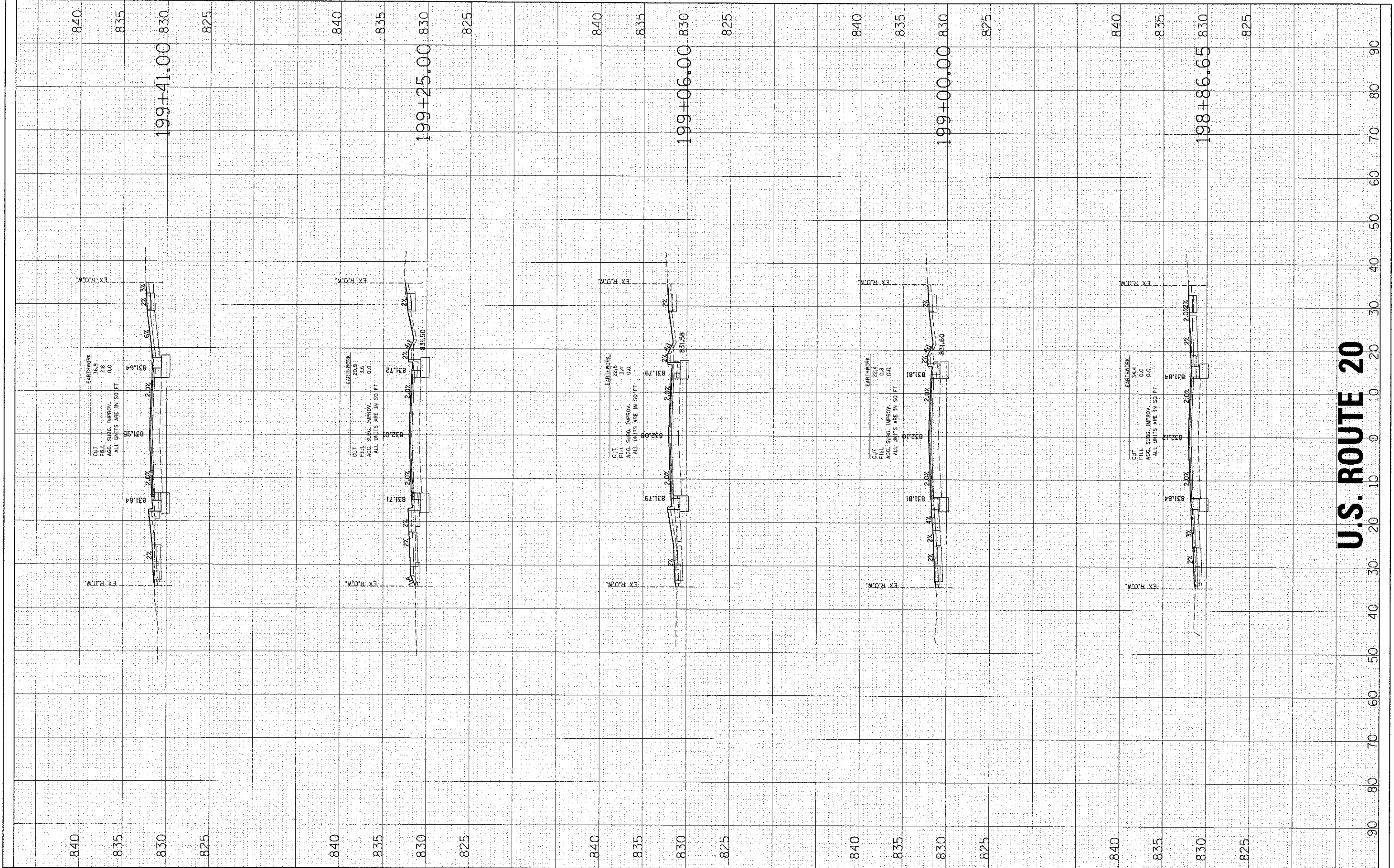
CROSS SECTIONS

SCALE: 10H:5V	SHEET NO. 1 OF 12 SHEETS	STA. 198+00.00 TO STA. 198+79.65
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F.A.H. RTE. 4087	SECTION 98-0024-00-WR	COUNTY MCHENRY	TOTAL SHEETS: 115	SHEET NO.: 85
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

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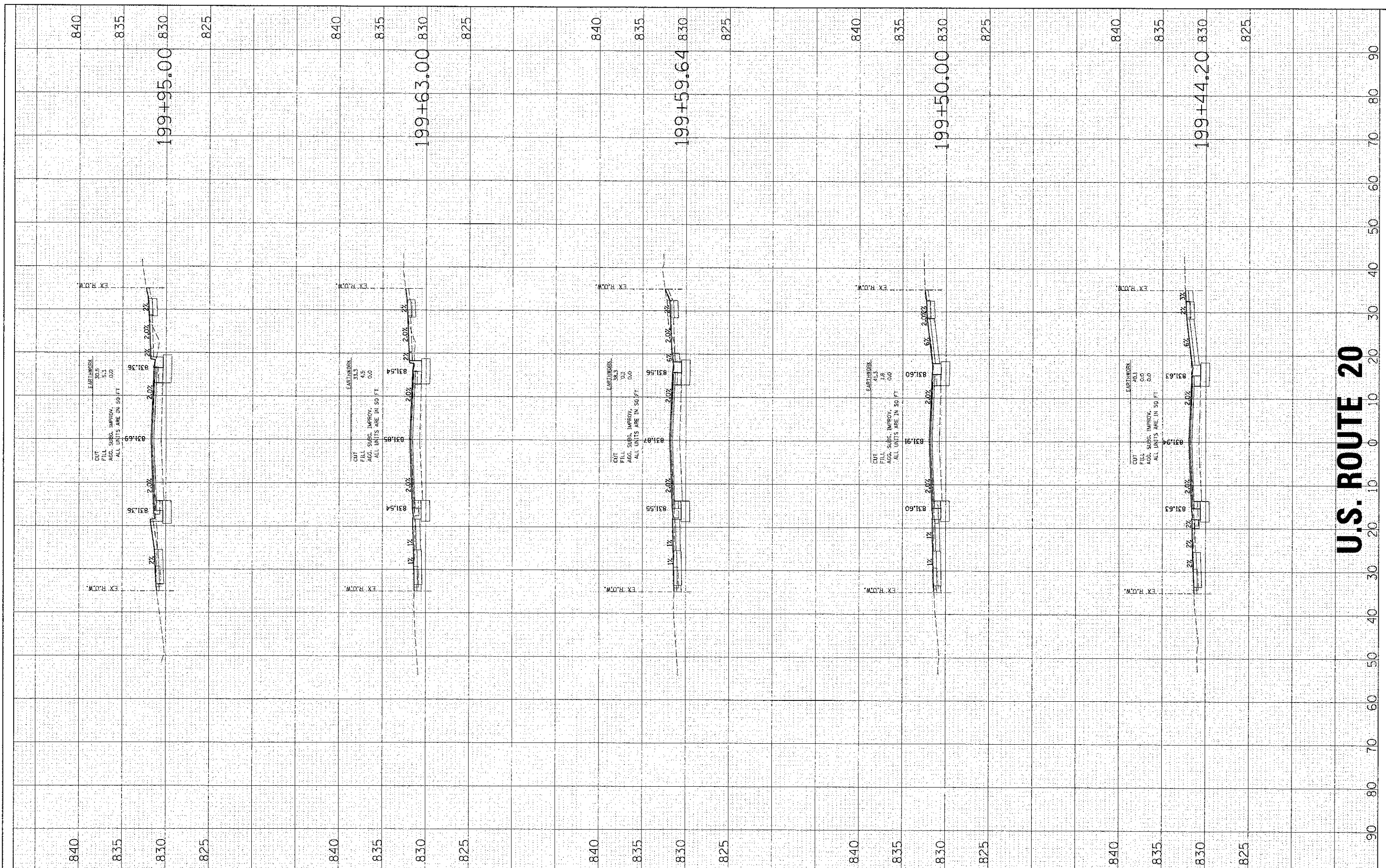
CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 2 OF 12 SHEETS STA. 198+86.65 TO STA. 199+41.00

F.A.U. RTE. 4087	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS NO. 115	SHEET NO. 86
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	

FINAL SURVEY	SURVEYED	BY	DATE
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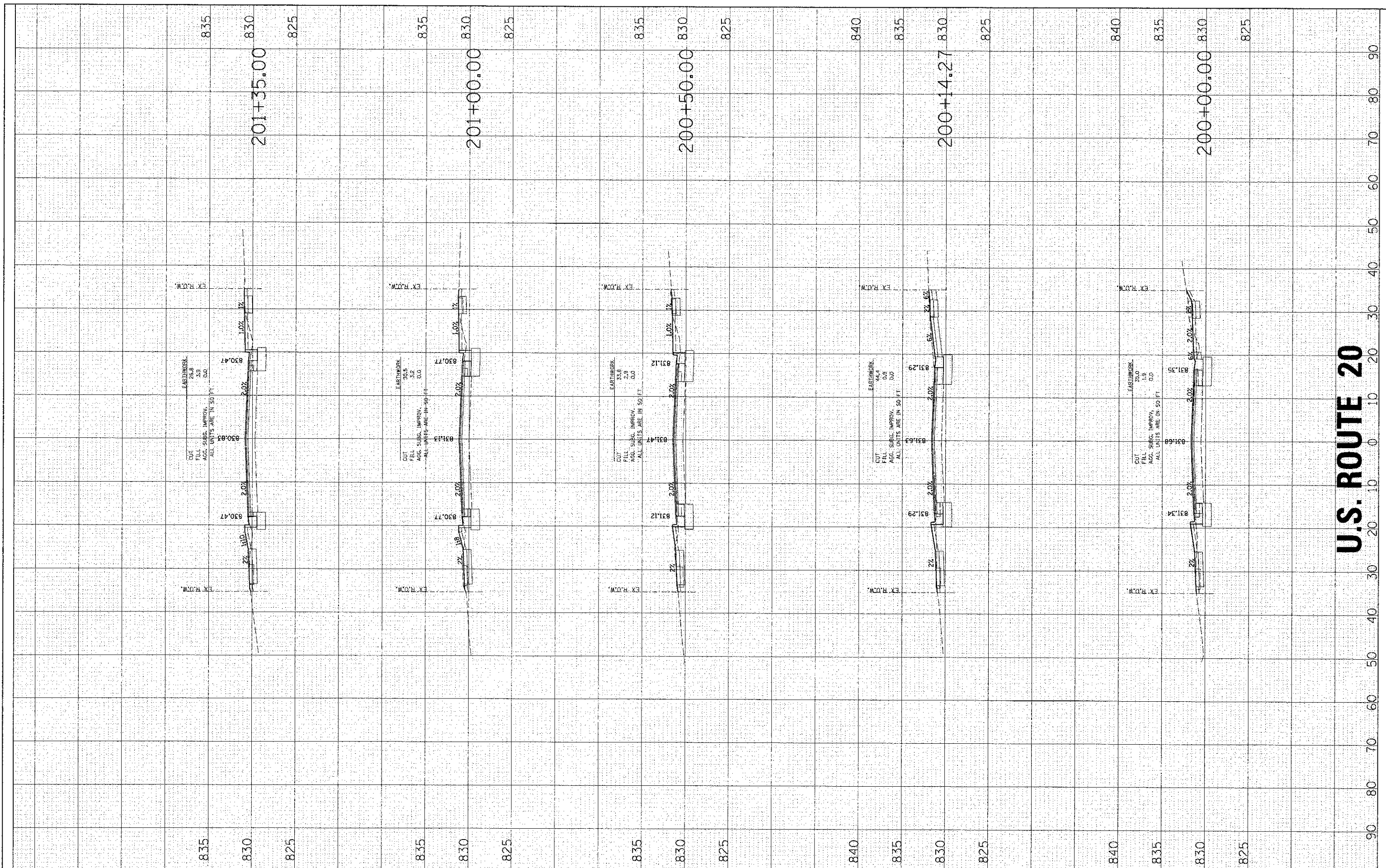
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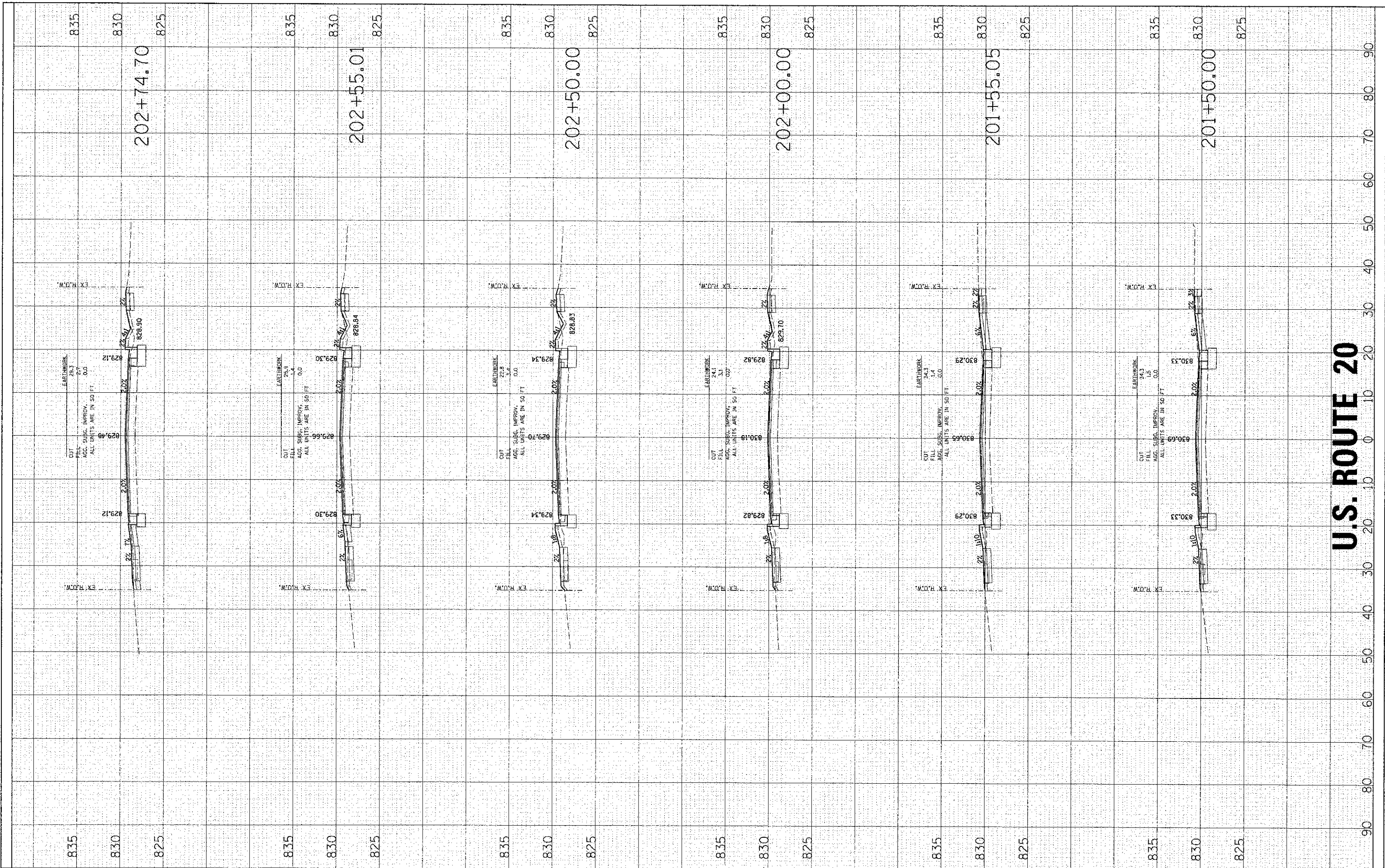
CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 4 OF 12 SHEETS STA. 200+00.00 TO STA. 201+35.00

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	88
CONTRACT NO. 63532			ILLINOIS FED. AID PROJECT	

FINAL	SUPERSED	DATE
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NOTE BOOK	TEMPLATE	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

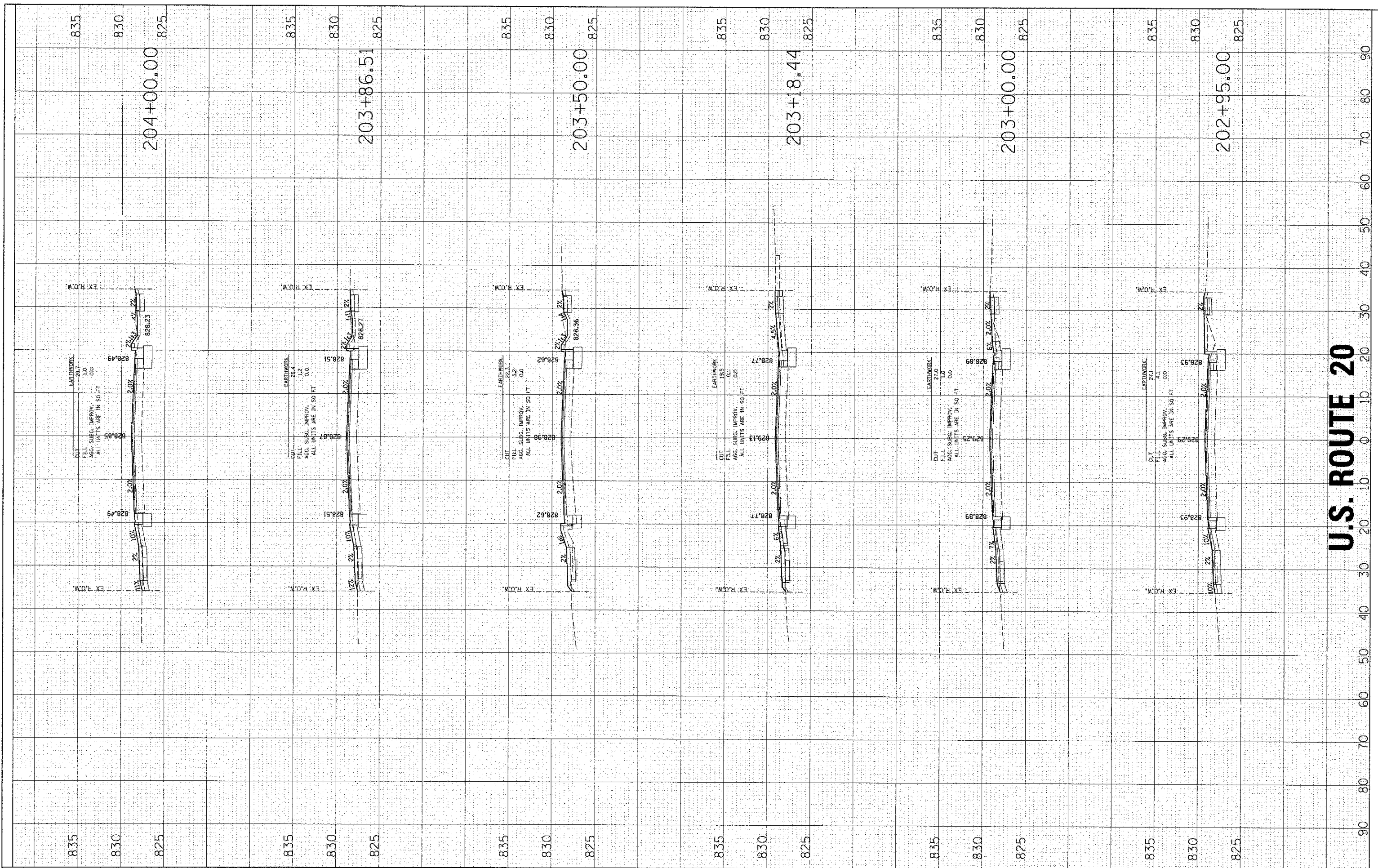
CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 5 OF 12 SHEETS STA. 201+50.00 TO STA. 202+74.70

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	89
CONTRACT NO. 63532			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

ORIGINAL SURVEY PLOTTED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

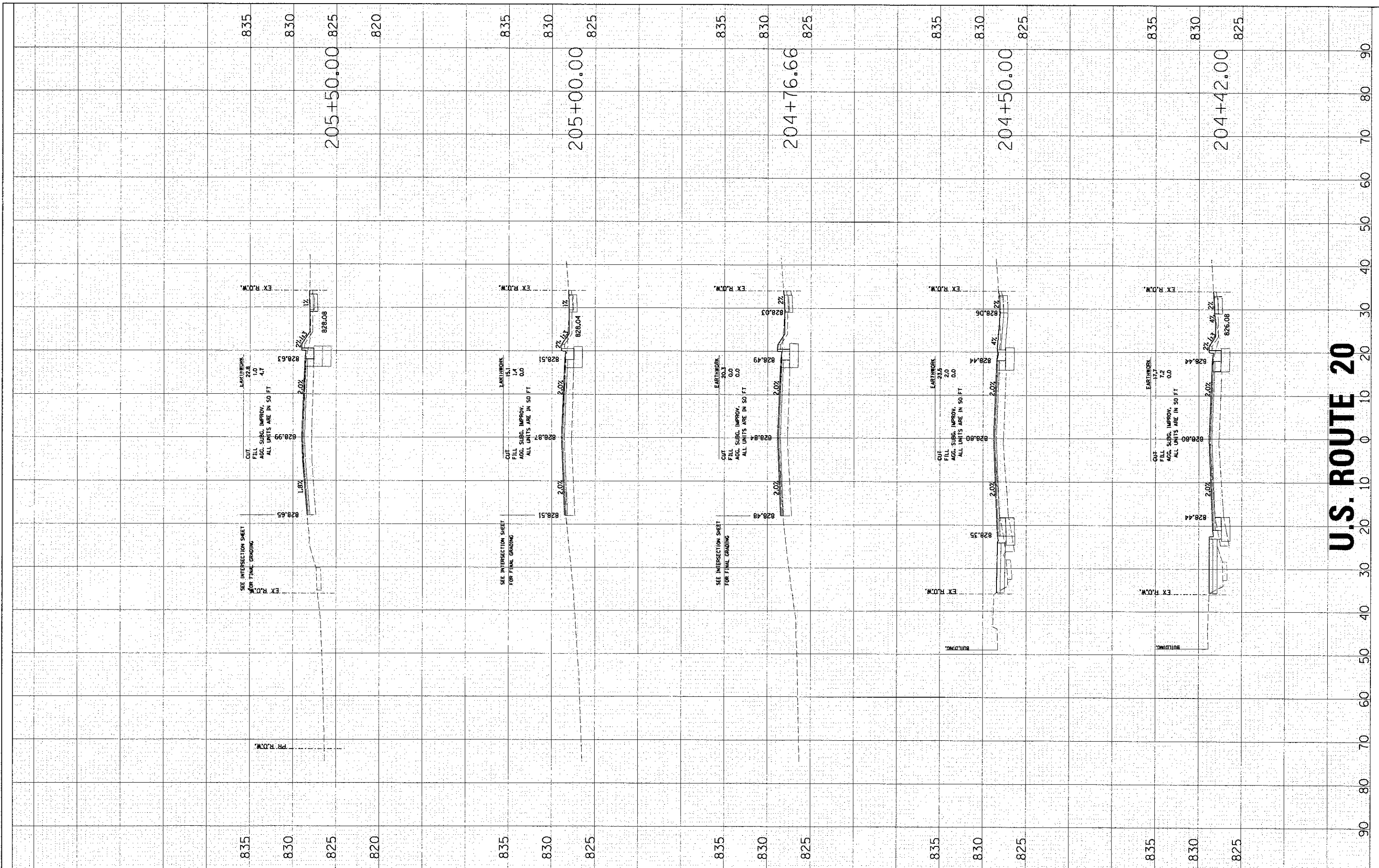
CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 6 OF 12 SHEETS STA. 202+95.00 TO STA. 204+00.00

F.A.U. RTE. 4087	SECTION 98-00024-00-WR	COUNTY McHENRY	TOTAL SHEETS 115	SHEET NO. 90
CONTRACT NO. 63532			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
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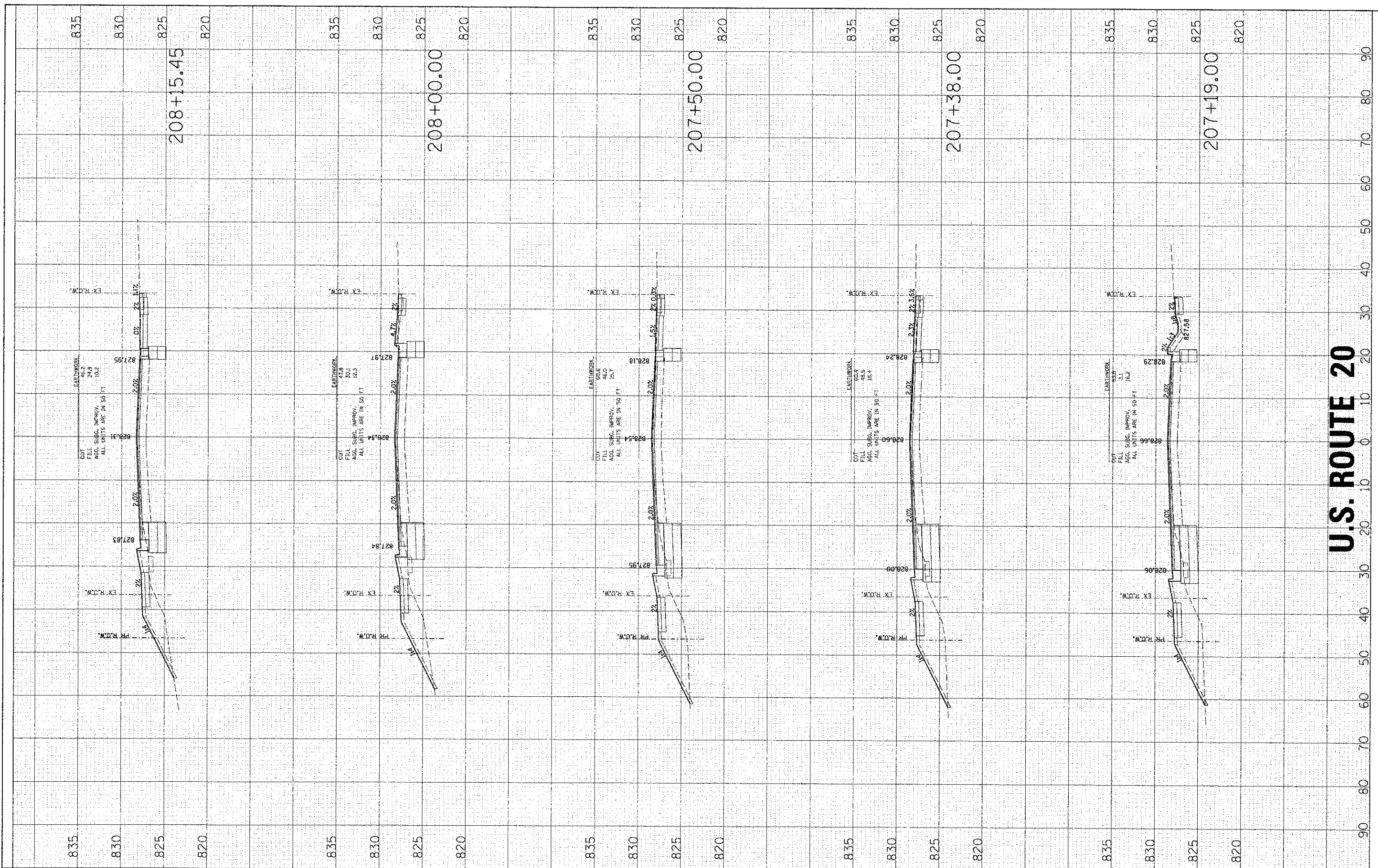
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
SCALE: 10Hx5V	SHEET NO. 7 OF 12 SHEETS	STA. 204+42.00 TO STA. 205+50.00

F.A.I. RTL. 4087	SECTION 98-00024-00-WR	COUNTY McHENRY	TOTAL SHEETS 115	SHEET NO. 91
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63532		

FINAL SURVEY	DATE
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DEPARTMENT OF TRANSPORTATION**

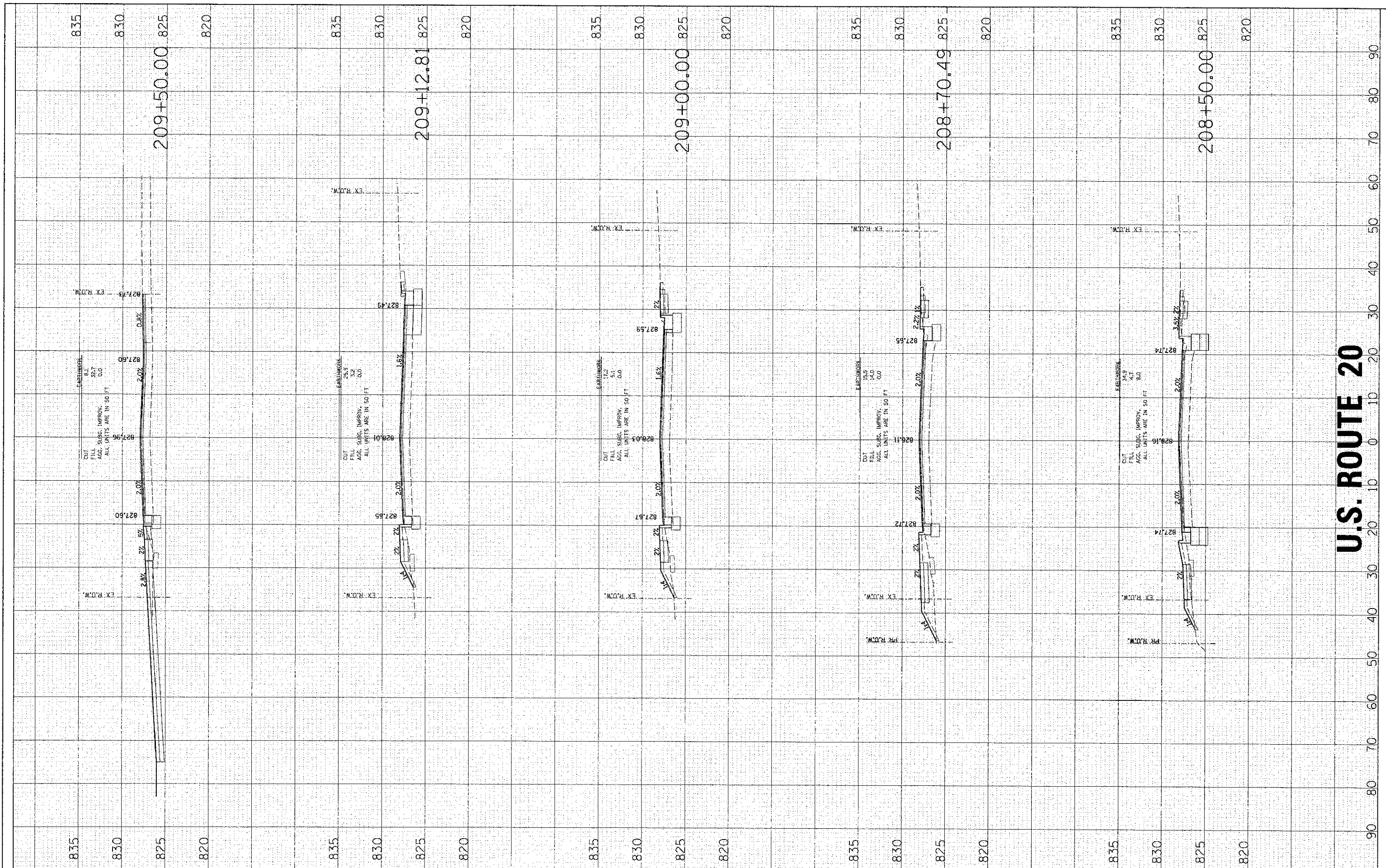
CROSS SECTIONS

SCALE: 10H:5V SHEET NO. 9 OF 12 SHEETS STA. 207+19.00 TO STA. 208+15.45

F.A.U. RTL. 4087	SECTION 98-00024-00-WR	COUNTY McHENRY	TOTAL SHEETS 115	SHEET NO. 93
CONTRACT NO. 63532			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

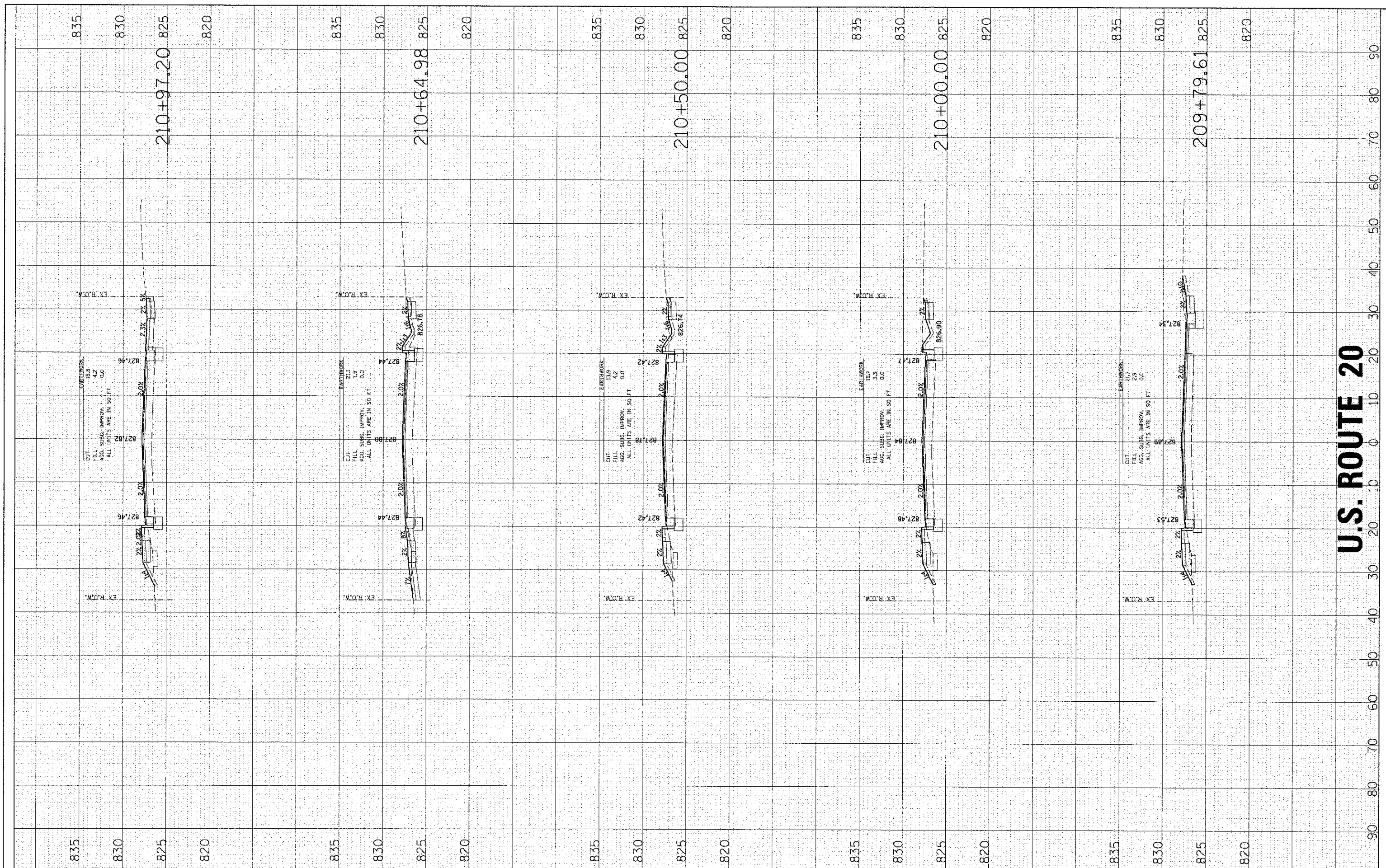
CROSS SECTIONS

SCALE:	10H:5V
SHEET NO.	10 OF 12 SHEETS
STA.	208+50.00 TO STA. 209+50.00

F.A.Z. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	94
CONTRACT NO.			63532	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

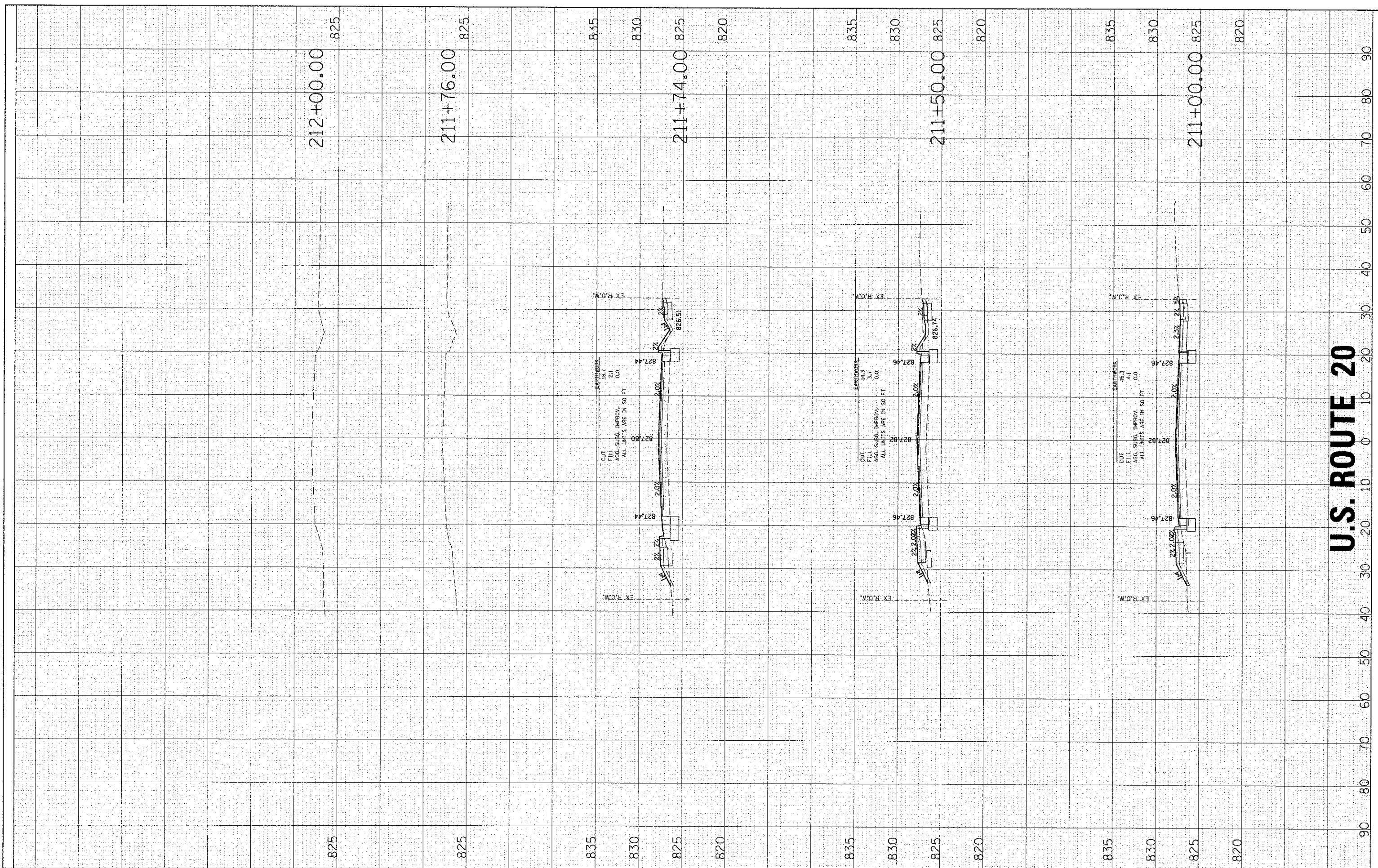
CROSS SECTIONS

SCALE: 10H:5V	SHEET NO. 12 OF 12 SHEETS	STA. 209+79.61 TO STA. 210+97.20
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F.A.U. RTE. 4087	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 95
CONTRACT NO. 63532			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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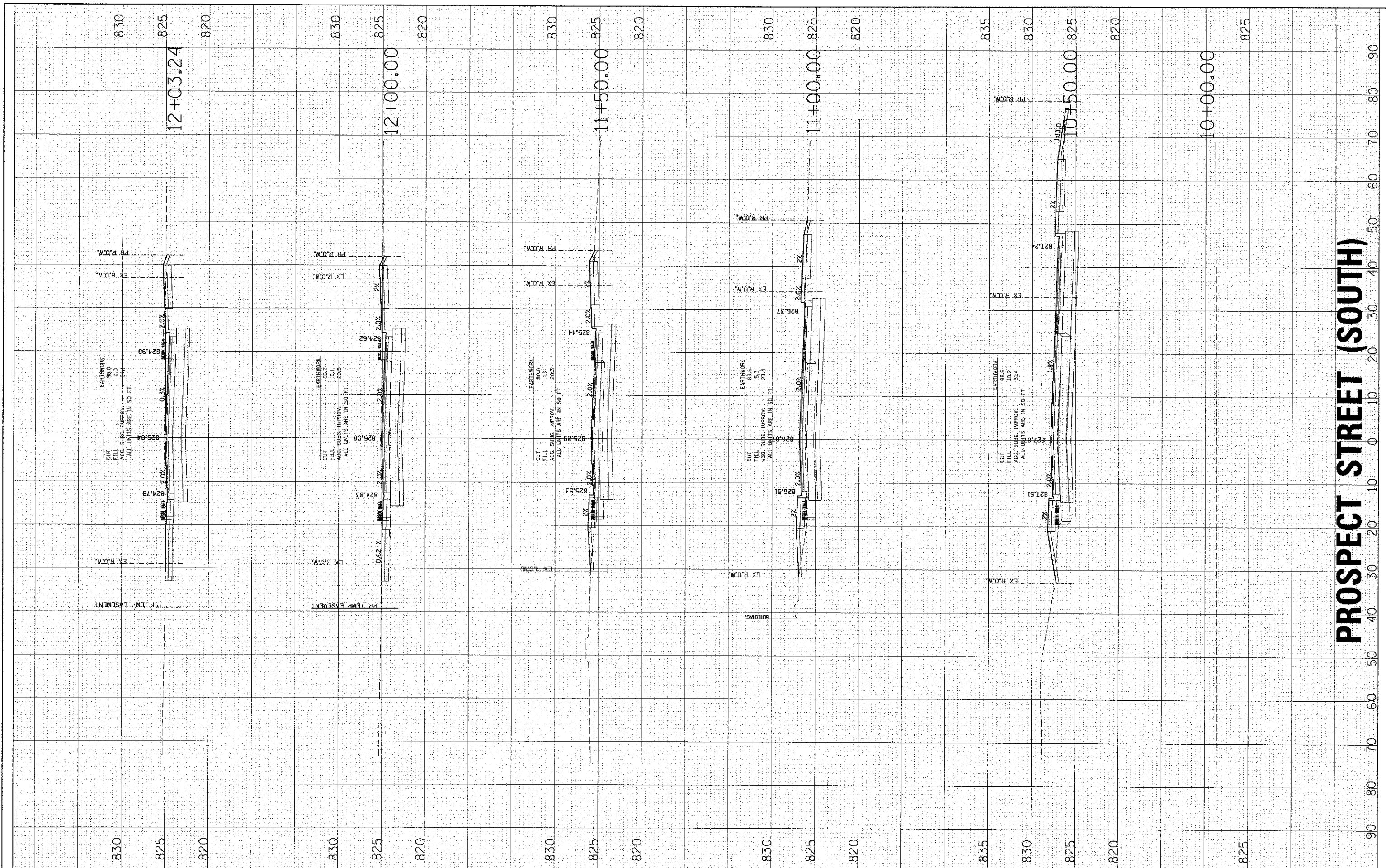
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
SCALE:	10H+5V	SHEET NO. 12 OF 12 SHEETS	STA. 211+00.00 TO STA. 212+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	96
CONTRACT NO. 63532			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



PROSPECT STREET (SOUTH)

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

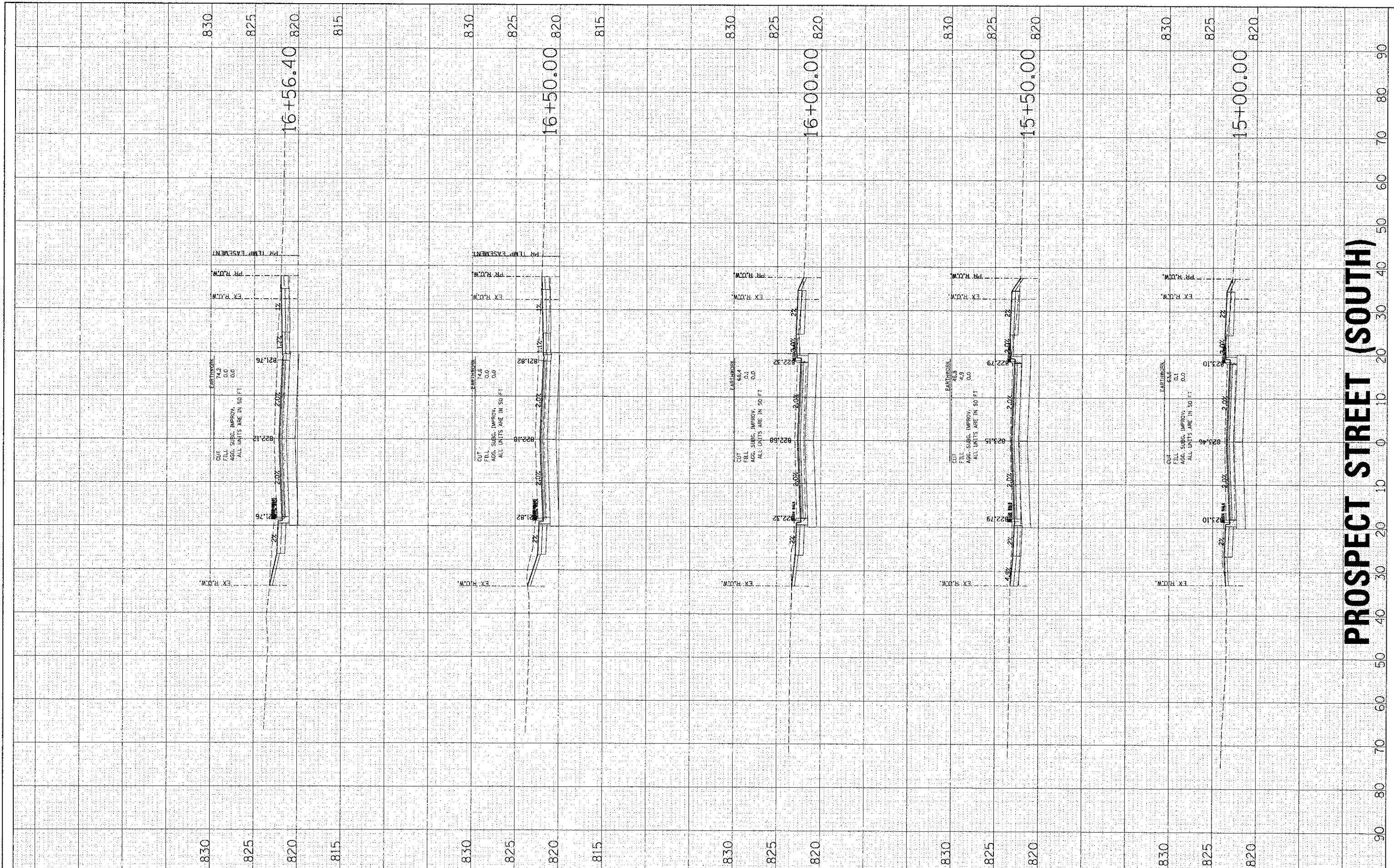
SCALE: 10H:5V	SHEET NO. 1 OF 7 SHEETS	STA. 10+00.00 TO STA. 12+03.24
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CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4087	98-00024-00-WR	McHENRY	115	97
CONTRACT NO. 63532			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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PROSPECT STREET (SOUTH)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

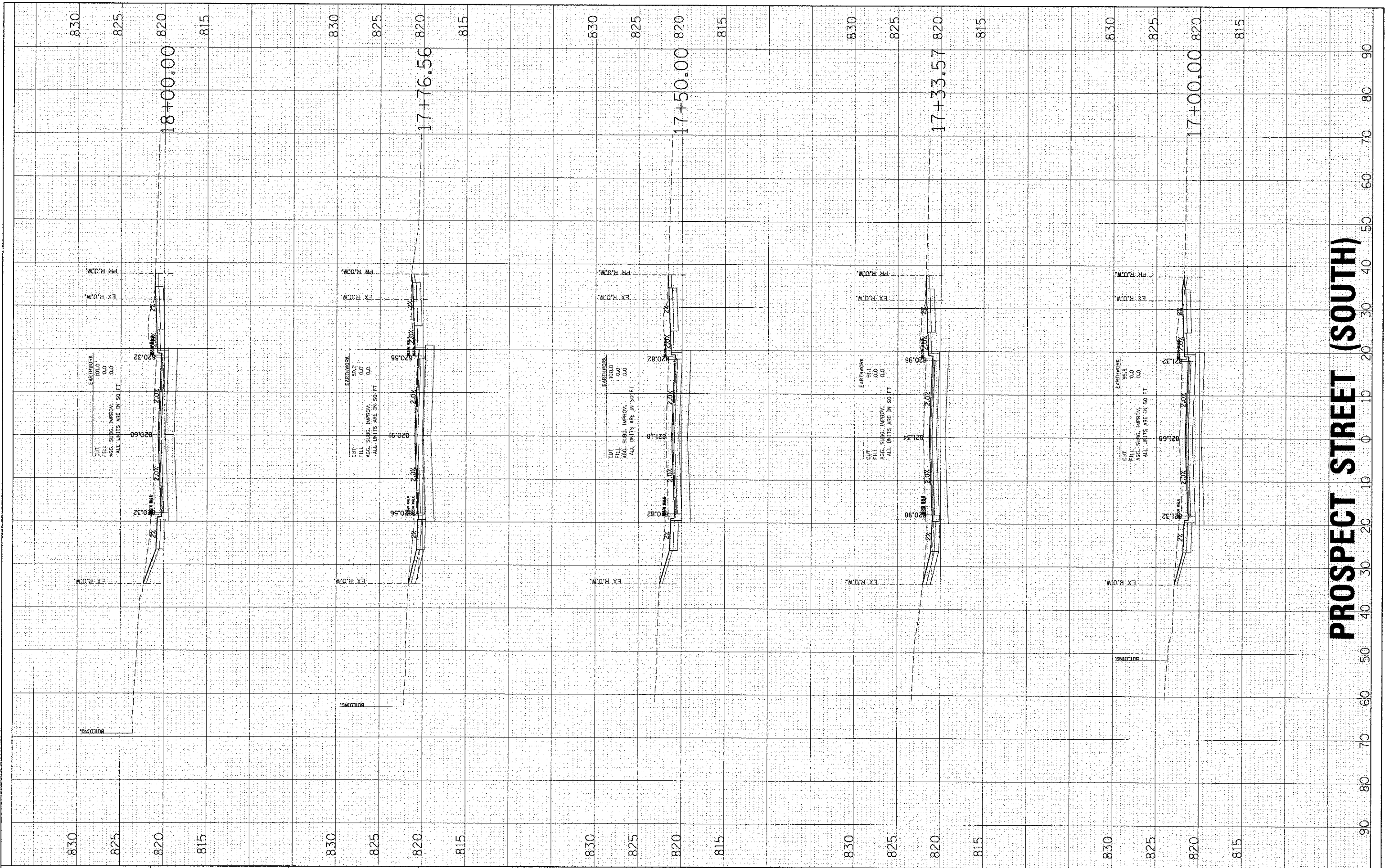
CROSS SECTIONS

SCALE: 10H:5V | SHEET NO. 3 OF 7 SHEETS | STA. 15+00.00 TO STA. 16+56.40

F.A.M. RTE. 4087	SECTION 98-00024-00-WR	COUNTY McHENRY	TOTAL SHEETS 115	SHEET NO. 99
CONTRACT NO. 63532			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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PROSPECT STREET (SOUTH)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
SCALE: 10H:5V	SHEET NO. 4 OF 7 SHEETS	STA. 17+00.00 TO STA. 18+00.00

F.A.I.L. RTE. 40BT	SECTION 98-00024-00-WR	COUNTY MCHENRY	TOTAL SHEETS 115	SHEET NO. 100
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63532	