1-17-14 LETTING ITEM 138

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	63870	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF STATE STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

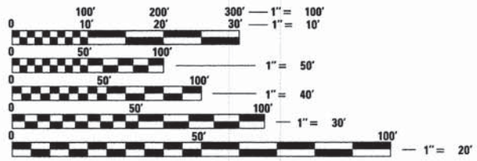
ADT:
JOHNSBURG RD. 12,600 VPD (2006) 19,100 VPD (2030)
CHAPEL HILL RD. 12,100 VPD (2006) 13,000 VPD (2030)

ROAD	POSTED SPEED	DESIGN SPEED
JOHNSBURG RD. (SPRING GROVE RD. TO CHAPEL HILL RD.)	30 MPH (EXISTING/ PROPOSED)	30 MPH
CHAPEL HILL RD.	30 MPH (EXISTING/ PROPOSED)	30 MPH

DESIGN DESIGNATION

FAU 0168 (JOHNSBURG ROAD) - URBAN MINOR ARTERIAL
FAU 0167 (CHAPEL HILL ROAD) - URBAN MINOR ARTERIAL

PROJECT LOCATED IN THE VILLAGE OF JOHNSBURG



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

811 Know what's below. Call before you dig.

PROFESSIONAL ENGINEER'S SIGN & SEAL
EXCLUDING SHEET(S):

JEFFREY L. PISHA, P.E.
EXPIRES: 11-30-13

JEFFREY L PISHA 062-054984 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
SEAL

STRUCTURAL ENGINEER'S SIGN & SEAL
FOR STRUCTURAL SHEET(S): S1 to S-11

ROBERT G. DAVIES, P.E., S.E.
EXPIRES: 11-30-14

STATE OF ILLINOIS ROBERT G. DAVIES 081-004666 LICENSED STRUCTURAL ENGINEER McHENRY, IL
SEAL

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

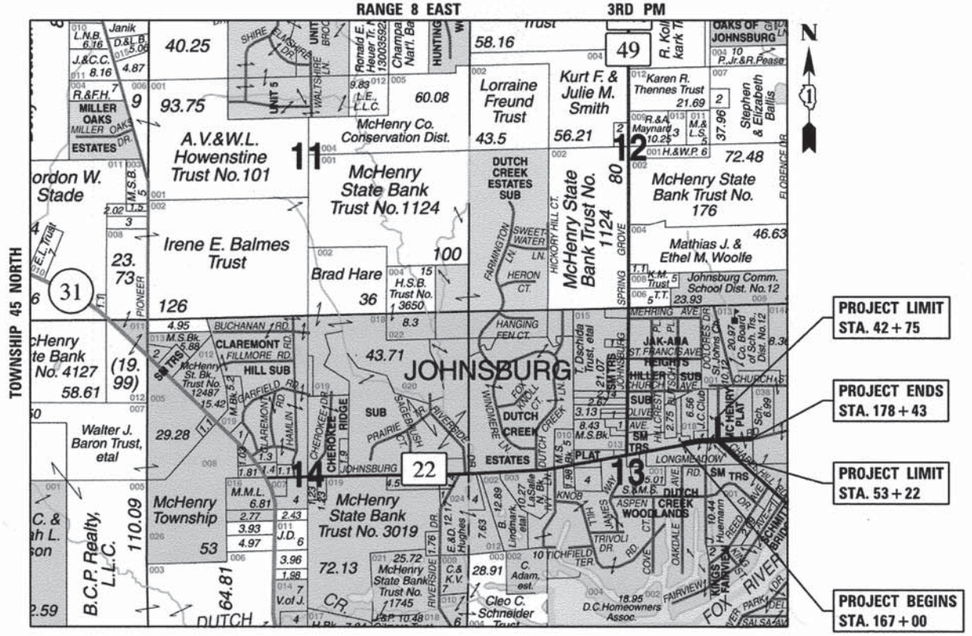
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU 0168 (JOHNSBURG ROAD)
WEST OF FAU 0167 (CHAPEL HILL ROAD)
TO EAST OF FAU 0167 (CHAPEL HILL ROAD)
ROADWAY WIDENING AND RECONSTRUCTION

SECTION: 05-00314-03-WR
PROJECT: TE-CMM-4003 (205)
MCHENRY COUNTY
JOB: C-91-359-13

PROJECT LOCATION MAP
MCHENRY TOWNSHIP
N.T.S.



PROJECT LENGTH

GROSS AND NET LENGTH OF IMPROVEMENT (JOHNSBURG ROAD) = 1143 FT (0.216 MI)

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED OCTOBER 22 20 13
Joseph R Kopalski Jr
COUNTY ENGINEER, MCHENRY COUNTY

PASSED OCTOBER 31 20 13
C Holt C. I. HOLT
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 1 20 13
John Fortmann Jr
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

HRGreen
420 NORTH FRONT STREET, SUITE 100 | McHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: J. MELHUISH
PROJECT MANAGER: J. PISHA

CONTRACT NO. 63870

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/22/2013@3:14 AM
FILE NAME: 080622-cvr.dgn
PLOT DRIVER: pdf.stl
PEN TABLE: standard-trans.tbl

INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006-00	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-01	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
602406-06	MANHOLE TYPE A 6' DIAMETER
602411-04	MANHOLE TYPE A 7' DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604036-02	GRATE TYPE 8
604051-03	FRAME AND GRATE TYPE 11
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606401-01	PAVED DITCH
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS
836001-02	LIGHT POLE FOUNDATION
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

COMPANY NAME:
PROJECT CONTACT:
DATE:
DATE PLOTTED: 10/24/2013 10:56:10 AM
FILE NAME: 080622-gen.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

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PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND STATE STANDARDS

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	2
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. 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.
2. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
3. 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 SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
4. IT IS THE CONTRACTOR' S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
5. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1, MCDOT AT (815) 334-4960 AND THE VILLAGE OF JOHNSBURG AT (815) 385-6023 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
6. 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.
7. ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD 88 DATUM.
8. 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.
9. OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
10. THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.1 GALLONS / SQ YD.
11. 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.
12. DRIVEWAYS ARE TO BE CONSTRUCTED TO THE R.O.W. OR UNLESS OTHERWISE NOTED.
13. REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".
14. THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND AFTER COMPLETION OF ROADWAY CONSTRUCTIONS, TO SET THEM IN THEIR PERMANENT LOCATIONS PER UNITED STATES POST OFFICE REQUIREMENTS. THIS WORK SHALL BE DONE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST SHALL BE INCLUDED IN THE COST OF "MAILBOX REMOVAL AND REPLACEMENT". TEMPORARY MAILBOX LOCATIONS SHALL BE APPROVED BY THE VILLAGE AND/OR THE ENGINEER. IF MAILBOXES ARE TO BE INSTALLED WITHIN THE SIDEWALK OR PAVED SURFACE, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND VILLAGE AND INSTALLATION SHALL BE INCLUDED IN THE COST OF "MAILBOX REMOVAL AND REPLACEMENT".
16. ALL SIGNS TO BE REMOVED SHALL REMAIN THE PROPERTY OF MCDOT AND SHALL BE RETURNED TO MCDOT AT 16111 NELSON ROAD, WOODSTOCK, IL 60098 UPON REMOVAL. SIGNS TEMPORARILY RELOCATED OR COVERED SHALL NOT BECOME THE PROPERTY OF MCDOT UNTIL PERMANENTLY REMOVED.

STORM SEWERS, WATER MAINS, AND UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
2. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
4. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

GENERAL NOTES (CONT.)

STORM SEWERS, WATER MAINS, AND UTILITIES (CONT.)

6. UNLESS OTHERWISE NOTED OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT AND OFFSETS FOR DRAINAGE STRUCTURES NOT LOCATED IN THE CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.
7. 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.
8. 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.
9. ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY AND BE DELIVERED TO MCDOT, AS APPLICABLE.
10. 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 MCDOT, AS APPLICABLE SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. 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.
12. 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.
13. 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.
14. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
15. 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 JURISIDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.
16. 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.
17. ALL PIPES SHALL BE CUT TO THE SIDES OF THE STRUCTURES AND SHALL NOT EXTEND INTO DRAINAGE STRUCTURE.

BACKFILL

1. STORM SEWER SHALL BE BACK FILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
2. PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.

SIGNING AND STRIPING

1. SEE IDOT DISTRICT ONE DETAILS AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
2. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
3. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
4. ALL SIGNS SHALL BE INSTALLED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE PAID FOR USING THE APPROPRIATE PAY ITEMS.

GENERAL NOTES (CONT.)

EROSION CONTROL PLANS

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

TRAFFIC CONTROL

1. SEE TRAFFIC CONTROL PLANS FOR GENERAL NOTES CONCERNING TRAFFIC CONTROL AND PROTECTION.
2. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
3. THE CONTRACTOR SHALL PLACE UP TO SIX CHANGEABLE MESSAGE SIGNS ON THE PROJECT. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH FOR "CHANGEABLE MESSAGE SIGN".

EARTHWORK

1. PRIOR TO ANY EMBANKMENT PLACEMENT ALL VEGETATION AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL.
2. SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
3. AGGREGATE SUBGRADE IMPROVEMENT (ASI) IN CU YD HAS BEEN PROVIDED FOR GENERAL USE. THE ACTUAL NEED FOR REMOVAL OF UNSUITABLE AND UNSTABLE SOILS AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. THE QUANTITY IDENTIFIED IN THE PLANS IS ESTIMATED ASSUMING THAT 6" OF ASI WILL BE REQUIRED UNDER THE PROPOSED ROADWAY IMPROVEMENT. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED FROM THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE DUE TOWARDS THE CONTRACTOR.

STRUCTURAL PLANS

1. SEE STRUCTURAL PLANS FOR GENERAL NOTES CONCERNING STRUCTURAL DESIGN.

LANDSCAPING

1. TREES TO BE PROTECTED DURING CONSTRUCTION SHOULD BE IDENTIFIED BY THE ENGINEER AND BE IN ACCORDANCE TO THE DETAILS PROVIDED IN THE PLANS, AND SHALL BE PAID FOR AS TEMPORARY FENCE.

DISTRICT ONE DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5m)
BD-02	DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 15'(4.5m)
BD-7	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-12	MANHOLE WITH RESTRICTOR PLATE
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-37	MANHOLE TYPE A 7 FOOT DIAMETER
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-10	TRAFFIC CONTROL AND PROTECTION PLAN SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 11/4/2013 11:12:33 AM
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PEN TABLE: standard-trans.tbl

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PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -	
PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND DISTRICT ONE DETAILS

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	3
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

					MCDOT		JOHNSBURG		
PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY 80% FEDERAL 20% LOCAL 0004	LIGHTING 80% FEDERAL 20% LOCAL 0021	ITEP 80% FEDERAL 20% LOCAL 0031	LIGHTING 80% FEDERAL 20% LOCAL 0021	VILLAGE OF JOHNSBURG 100% LOCAL 0043
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	25	25				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	120	120				
20101000	TEMPORARY FENCE	FOOT	15	15				
20200100	EARTH EXCAVATION	CU YD	3,866	3,866				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,681	2,681				
20400800	FURNISHED EXCAVATION	CU YD	1,432	1,432				
20800150	TRENCH BACKFILL	CU YD	832	832				
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,385	3,385				
* 21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	63			63		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	42	42				
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	42	42				
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	42	42				
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2,566	2,566				
* 25200110	SODDING, SALT TOLERANT	SQ YD	3,385	3,385				
* 25200200	SUPPLEMENTAL WATERING	UNIT	130	130				
28100105	STONE RIPRAP, CLASS A3	SQ YD	11	11				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	53	53				
28000400	PERIMETER EROSION BARRIER	FOOT	515	515				
28000510	INLET FILTERS	EACH	28	28				
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2,566	2,566				
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	2,332	2,332				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	8,093	8,093				
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	2,389	2,389				
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	257	257				
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	940	940				
40600300	AGGREGATE (PRIME COAT)	TON	2	2				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	55	55				
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	148	148				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	233	233				
40701946	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 1/4"	SQ YD	5,498	5,498				

* SPECIALTY ITEM

X CONSTRUCTION TYPE CODE 0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	4
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES (CONTD.)

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	MCDOT ROADWAY 80% FEDERAL 20% LOCAL 0004	MCDOT LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG ITEP 80% FEDERAL 20% LOCAL 0031	JOHNSBURG LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG VILLAGE OF JOHNSBURG 100% LOCAL 0043
42001300	PROTECTIVE COAT	SQ YD	4,334	4,334				
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	15	15				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	221	221				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	10,681.0	10,681.0				
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	212.0	212.0				
42400800	DETECTABLE WARNINGS	SQ FT	195	195				
44000100	PAVEMENT REMOVAL	SQ YD	8,011	8,011				
44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	1,238	1,238				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	639	639				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,623	1,623				
44000600	SIDEWALK REMOVAL	SQ FT	3,549	3,549				
44004000	PAVED DITCH REMOVAL	FOOT	75	75				
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	10	10				
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	100	100				
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	220	220				
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	835	835				
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	328	328				
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1				
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2				
50200100	STRUCTURE EXCAVATION	CU YD	1,064	1,064				
50300225	CONCRETE STRUCTURES	CU YD	25.0	25.0				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,510	3,510				
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1				
54011204	PRECAST CONCRETE BOX CULVERTS 12' x 4'	FOOT	200.0	200.0				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	507	507				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	112	112				
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	335	335				
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	507	507				
55100500	STORM SEWER REMOVAL 12"	FOOT	34	34				
55100700	STORM SEWER REMOVAL 15"	FOOT	234	234				

* SPECIALTY ITEM
X CONSTRUCTION TYPE CODE 0042

SUMMARY OF QUANTITIES (CONTD.)

					MCDOT		JOHNSBURG		
PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	ROADWAY 80% FEDERAL 20% LOCAL 0004	LIGHTING 80% FEDERAL 20% LOCAL 0021	ITEP 80% FEDERAL 20% LOCAL 0031	LIGHTING 80% FEDERAL 20% LOCAL 0021	VILLAGE OF JOHNSBURG 100% LOCAL 0043
55101200	STORM SEWER REMOVAL 24"	FOOT	394	394				
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	10	10				
60204805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	5	5				
XX0071833	CATCH BASINS, TYPE A, 6'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2				
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1				
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1				
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	4	4				
60222000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1				
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	4	4				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1				
60600605	CONCRETE CURB, TYPE B	FOOT	456.0	456.0				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,707.0	3,707.0				
60616110	PAVED DITCH, TYPE A-30	FOOT	70	70				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	600	600				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	48	48				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,700	3,700				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7,330	7,330				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	11	11				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1,000	1,000				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,400	2,400				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	140.0	140.0				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	140.0	140.0				
70600240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	1				
70600340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	1				
* 72000100	SIGN PANEL - TYPE 1	SQ FT	108	108				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	142	142				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,477	4,477				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	490	490				

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	6
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES (CONTD.)

	PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	MCDOT ROADWAY 80% FEDERAL 20% LOCAL 0004	MCDOT LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG ITEP 80% FEDERAL 20% LOCAL 0031	JOHNSBURG LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG VILLAGE OF JOHNSBURG 100% LOCAL 0043
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	629	629				
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,000	1,000				
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1			
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1			
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	410		410			
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	458		458			
*	81028710	UNDERGROUND CONDUIT, COILABLE NONMETALIC CONDUIT, 3/4" DIA.	FOOT	2,350				2,350	
*	81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,550		1,550			
*	81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,340				2,340	
*	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	66		66			
*	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		1			
*	83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	16		16			
*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	144		144			
*	83600350	LIGHT POLE FOUNDATION, METAL, 11" BOLT CIRCLE, 8" X 6'	EACH	24				24	
*	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	16		16			
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2				
*	A2008020	TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4			4		
*	C2C078G5	SHRUB, ROSA X KNOCK OUT (KNOCK OUT ROSE), CONTAINER GROWN, 5-GALLON	EACH	55			55		
*	D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	8			8		
*	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	4			4		
*	X0320374	PLUG EXISTING SANITARY SEWERS	EACH	1					1
	X0326414	STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8 INCH	SQ FT	2,959			2,959		
*	X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	24			24		
	X0327426	BRICK PAVER BANDING	SQ FT	8,693			8,693		
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	7	7				
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	17	17				
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2				
	X4240470	PORTLAND CEMENT CONCRETE SIDEWALK, 10 INCH, SPECIAL	SQ FT	663	663				
*	X5090810	PEDESTRIAN RAIL (SPECIAL)	FOOT	326	326				
	X6020084	MANHOLE, SPECIAL	EACH	1	1				
*	X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2					2
	X6061815	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)	FOOT	278.0	278.0				

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	7
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES (CONTD.)

	PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	MCDOT ROADWAY 80% FEDERAL 20% LOCAL 0004	MCDOT LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG ITEP 80% FEDERAL 20% LOCAL 0031	JOHNSBURG LIGHTING 80% FEDERAL 20% LOCAL 0021	JOHNSBURG VILLAGE OF JOHNSBURG 100% LOCAL 0043
	X6062206	STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 6 INCH	SQ FT	1,569	1,569				
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
*	X7280105	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	FOOT	582	582				
*	X7310110	BASE FOR TELESCOPING SIGN SUPPORT, SPECIAL	EACH	40	40				
*	X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1		1			
	Z0003850	BENCHES	EACH	3			3		
	Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	586	586				
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	5	5				
	Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	1	1				
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	15	15				
	Z0022800	FENCE REMOVAL	FOOT	18	18				
	Z0026407	TEMPORARY SHEET PILLING	SQ FT	1,000	1,000				
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1,000	1,000				
*	Z0056900	SANITARY SEWER 8"	FOOT	209					209
	Z0062456	TEMPORARY PAVEMENT	SQ YD	290	290				
	Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	131	131				
	Z0066600	STABILIZED DRIVEWAYS 8"	SQ YD	538	538				
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	32	32				
X	Z0076600	TRAINEES	HOUR	500	500				
X	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500				
	XX001095	MAILBOX REMOVAL AND REPLACEMENT	EACH	22	22				
*	XX005972	STAMPED ASPHALT CROSSWALK	SQ YD	142			142		
	XX006852	EXPLORATION TRENCH (SPECIAL)	CU YD	185	185				
*	XX007383	FORCE MAIN TO BE ADJUSTED	EACH	2					2
*	XX007797	LUMINAIRE (SPECIAL)	EACH	16		16			
	XX007857	TRASH RECEPTACLE, FURNISH & INSTALL	EACH	3			3		
*	XX008829	REMOVAL AND DISPOSAL OF EXISTING FORCE MAIN	FOOT	50					50

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	8
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PJOHN	STAGE 1 (CU YD)				STAGE 2 (CU YD)				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 20% SHRINKAGE	
STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	STAGE 1	STAGE 2
169+00.00									0.0	0.0
169+50.00	33.5	88.1	0.2	17.0	31.7	68.9	11.1	17.2	70.3	44.0
169+51.87	1.1	4.6	0.0	0.6	0.9	3.2	0.1	0.6	3.7	2.5
169+93.01	14.0	110.1	0.0	14.0	14.2	82.3	0.9	14.2	88.1	64.9
170+00.00	2.7	15.4	0.1	2.4	2.4	13.0	0.2	2.4	12.2	10.2
170+25.64	14.3	88.7	0.2	13.2	13.3	71.7	0.8	13.3	70.8	56.6
170+50.00	16.6	81.0	1.1	12.5	18.0	64.6	0.8	12.7	63.7	50.9
170+50.64	0.3	1.2	0.0	0.2	0.4	1.0	0.0	0.2	1.0	0.8
170+84.47	17.2	68.1	0.1	11.5	12.0	54.9	1.6	11.7	54.4	42.3
171+00.00	10.5	28.3	0.0	5.3	5.6	21.4	1.8	5.3	22.6	15.3
171+50.00	33.7	94.5	1.5	17.0	17.8	70.4	5.8	17.2	74.1	50.5
171+72.49	11.4	57.7	0.7	7.7	7.9	36.8	1.8	7.8	45.5	27.6
172+00.00	14.1	73.8	0.5	9.4	9.6	48.8	1.6	9.6	58.5	37.4
172+21.54	11.0	58.5	0.4	7.3	7.5	46.2	0.6	7.5	46.4	36.4
172+26.90	1.8	17.4	0.0	1.8	1.9	14.0	0.0	1.9	13.9	11.2
172+50.00	11.6	64.2	0.1	7.9	11.5	51.3	0.1	8.0	51.2	40.9
172+64.33	9.6	33.6	0.1	4.9	9.3	25.1	0.2	4.9	26.8	19.8
172+73.84	6.3	22.3	0.0	3.2	6.2	16.8	0.2	3.3	17.8	13.2
172+88.36	7.3	38.1	0.0	4.9	7.3	33.2	0.2	5.0	30.5	26.4
173+00.00	5.8	29.8	0.0	4.0	5.8	26.1	0.1	4.0	23.8	20.8
173+13.83	9.1	29.3	0.0	4.7	9.1	22.8	0.5	4.8	23.4	17.8
173+18.11	2.8	8.9	0.0	1.5	2.8	6.8	0.2	1.5	7.1	5.2
173+50.00	21.0	61.5	0.6	10.9	20.4	50.0	1.1	11.0	48.6	39.0
173+75.00	16.4	43.0	0.5	8.5	16.3	37.8	0.4	8.6	33.9	29.9
173+80.23	2.6	10.4	0.0	1.8	2.6	9.5	0.0	1.8	8.3	7.5
173+92.07	5.2	22.2	0.0	4.0	6.1	21.7	0.0	4.3	17.7	17.3
174+00.00	4.2	11.6	0.1	2.7	5.4	11.4	0.0	2.9	9.2	9.1
174+12.29	6.6	16.7	0.1	4.2	8.2	15.7	1.0	4.2	13.3	11.6
174+25.00	6.9	16.1	0.1	4.5	8.7	14.5	2.3	4.4	12.8	9.3
176+84.77	121.2	468.1	1.4	96.2	143.8	435.8	26.0	98.1	373.0	322.7
177+00.00	9.3	29.1	2.4	5.8	7.8	28.8	0.0	6.1	20.9	23.0
177+12.18	7.4	25.3	1.9	4.6	6.1	23.2	0.0	4.8	18.3	18.6
177+50.00	14.9	76.4	0.4	14.2	17.9	71.1	0.1	14.4	60.7	56.8
178+00.00	20.6	66.5	1.5	18.7	28.1	71.3	0.3	19.0	51.7	56.8
TOTALS	471.4	1860.3	13.9	327.2	466.4	1570.1	59.9	332.8	1474.3	1196.2

PRCHAP	STAGE 1 (CU YD)				STAGE 2 (CU YD)				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 20% SHRINKAGE	
STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	STAGE 1	STAGE 2
53+50.00									0.0	0.0
53+75.81	1.1	7.6	1.2	1.1	8.0	19.1	20.9	4.1	4.8	-5.7
54+00.00	2.8	6.7	6.2	1.0	7.5	18.3	19.3	3.9	-0.8	-4.6
54+50.00	8.2	10.1	20.5	2.2	8.2	30.6	41.6	8.2	-12.4	-17.1
55+00.00	8.3	10.2	18.1	2.1	11.6	29.2	43.3	8.4	-10.0	-20.0
55+50.00	6.2	9.9	16.0	2.0	14.1	28.1	43.6	8.5	-8.1	-21.1
56+00.00	7.2	10.3	16.6	2.0	17.0	33.1	36.2	8.9	-8.4	-9.8
56+50.00	16.1	27.7	10.9	6.1	22.3	59.4	15.8	16.6	11.2	31.6
56+75.00	8.2	24.5	1.0	5.6	11.6	41.2	0.6	11.5	18.6	32.4
57+00.00	6.5	28.1	2.5	6.5	14.2	41.4	0.0	10.7	19.9	33.1
TOTALS	64.7	135.0	93.1	28.8	114.5	300.3	221.4	80.8	14.9	18.9

ITEM NO.	CODE	DESCRIPTION	CROSS SECTION BASED			TOTAL
			JOHNSBURG ROAD	PRCHAPEL	ROUNDABOUT	
1	20200100	EARTH EXCAVATION	3,430.4	435.2	0.0	3,866
2	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	937.8	179.2	1,563.8	2,681
3	20400800	FURNISHED EXCAVATION	0.0	0.0	1,431.5	1,432
4	30300001	AGGREGATE SUBGRADE IMPROVEMENT	660.0	109.6	1,562.7	2,332

NOTE:
THE QUANTITIES OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT SHOWN HERE HAVE BEEN ESTIMATED AND INCLUDED IN THE SUMMARY OF QUANTITIES TO ACCOUNT FOR INSTALLATION OF AGGREGATE SUBGRADE IMPROVEMENT. SEE EARTHWORK GENERAL NOTE 3.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

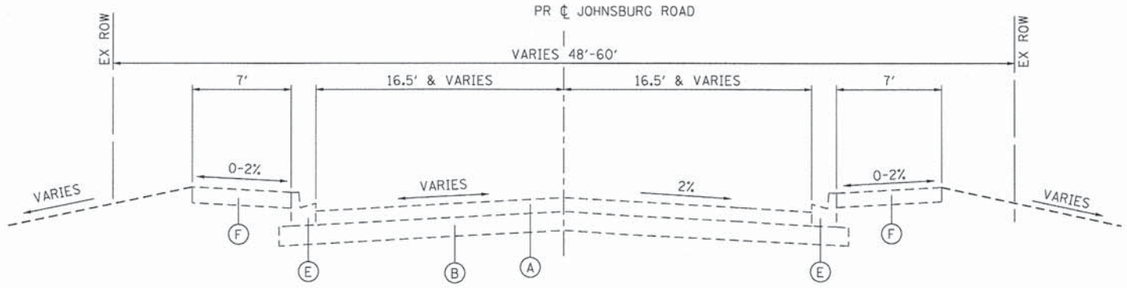
SCHEDULE OF QUANTITIES
JOHNSBURG ROAD RECONSTRUCTION

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

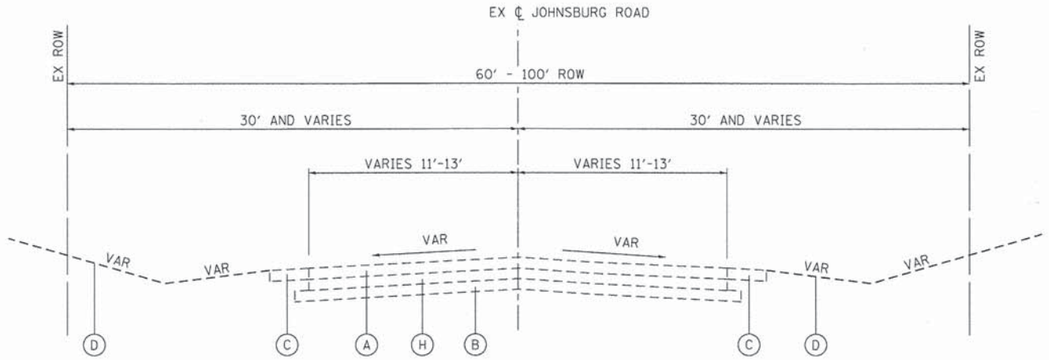
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	9
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXISTING TYPICAL SECTION LEGEND

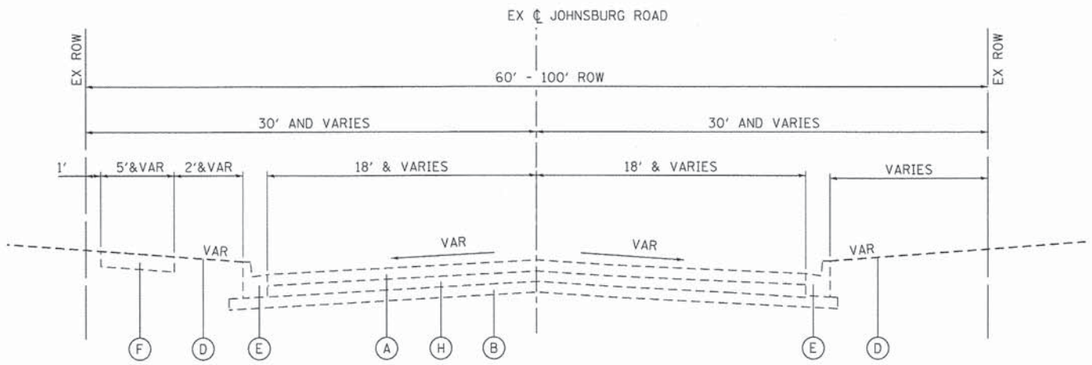
- (A) HOT-MIX ASPHALT PAVEMENT; DEPTH VARIES (7" TO 9")
- (B) GRANULAR MATERIAL
- (C) HOT-MIX ASPHALT SHOULDER
- (D) EXISTING GRADE
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) PCC SIDEWALK
- (G) HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- (H) PORTLAND CEMENT CONCRETE PAVEMENT, 6"



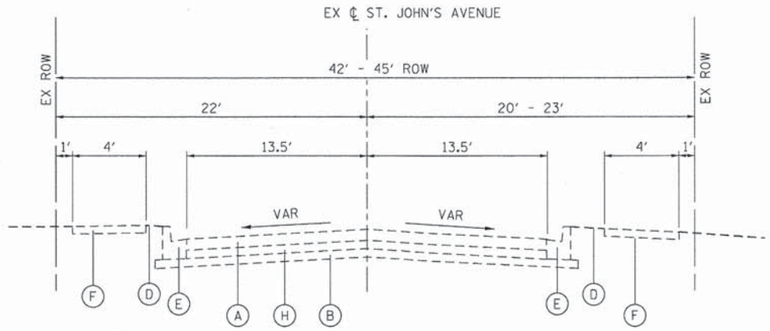
EXISTING TYPICAL SECTION
JOHNSBURG ROAD
STA 167+00 TO STA 169+00



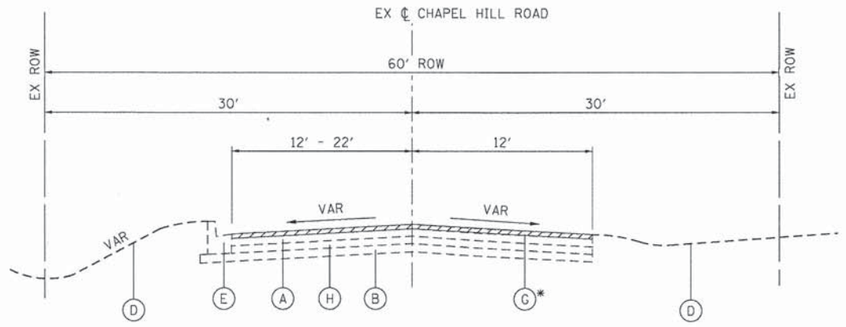
EXISTING TYPICAL SECTION
JOHNSBURG ROAD
STA 169+00 TO STA 175+00



EXISTING TYPICAL SECTION
JOHNSBURG ROAD
STA 175+00 TO STA 178+43



EXISTING TYPICAL SECTION
ST. JOHN'S AVENUE
STA 40+00 TO STA 42+75



EXISTING TYPICAL SECTION
CHAPEL HILL ROAD
STA 53+22 TO STA 59+18.4

* STA 53+22 TO STA 56+50

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PLT DRIVER: pdf24
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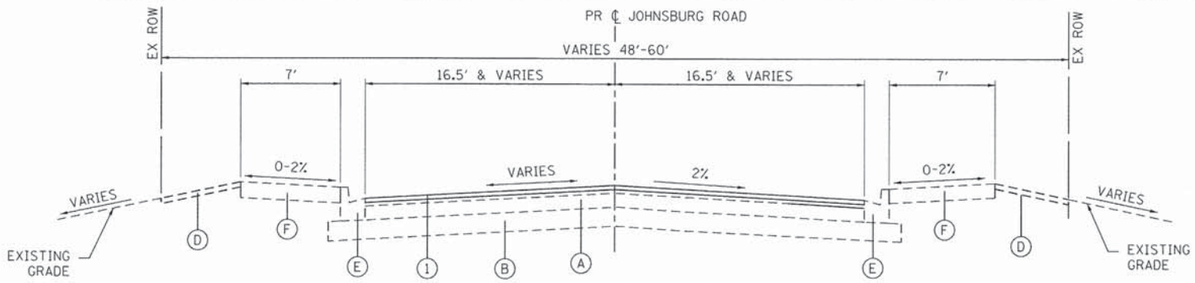
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

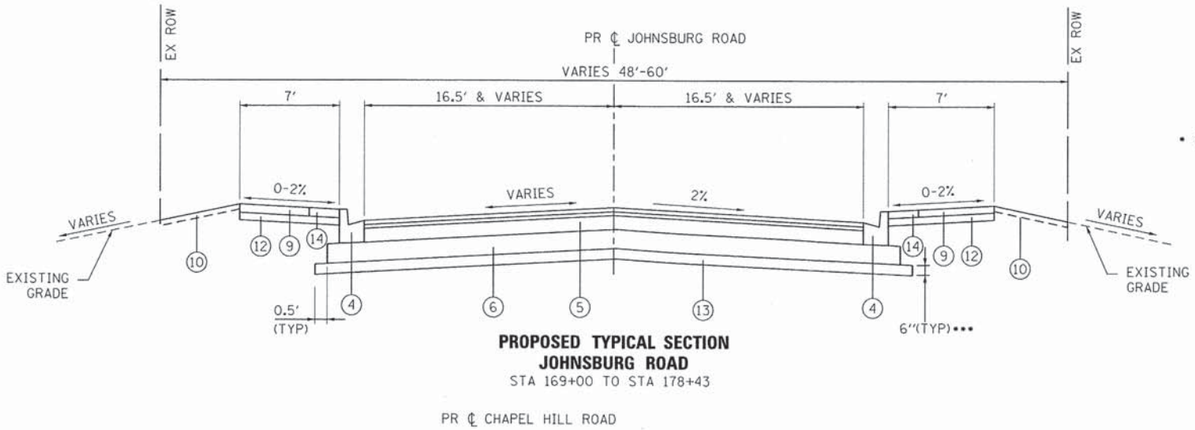
EXISTING TYPICAL SECTIONS
JOHNSBURG ROAD

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

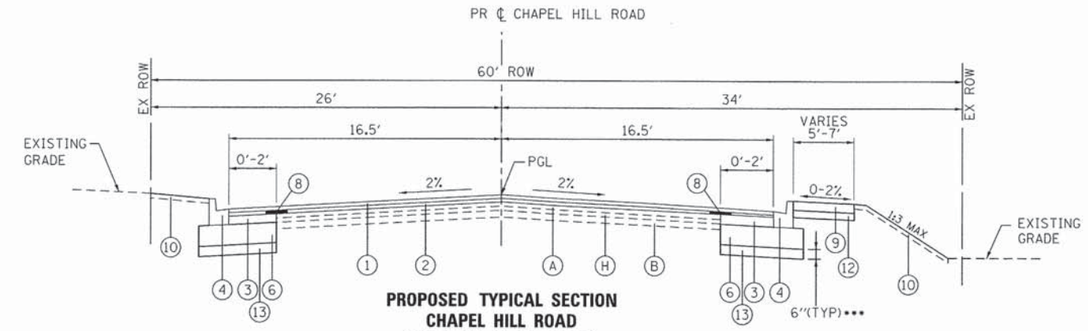
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	10
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



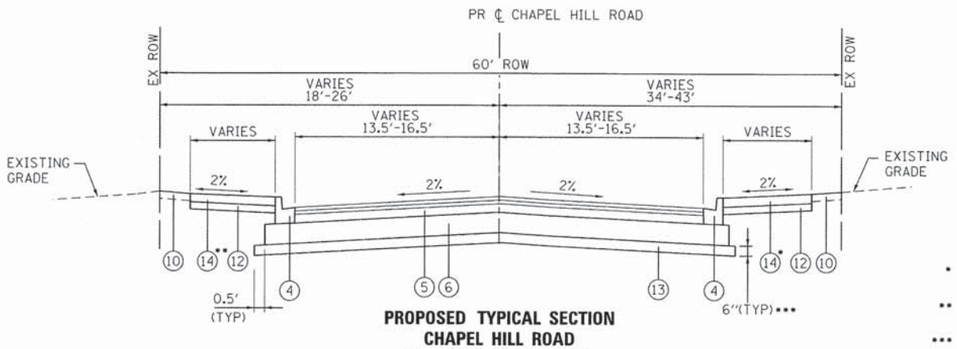
PROPOSED TYPICAL SECTION
JOHNSBURG ROAD
STA 167+00 TO STA 169+00



PROPOSED TYPICAL SECTION
JOHNSBURG ROAD
STA 169+00 TO STA 178+43



PROPOSED TYPICAL SECTION
CHAPEL HILL ROAD
STA 53+22 TO STA 56+50



PROPOSED TYPICAL SECTION
CHAPEL HILL ROAD
STA 56+50 TO STA 59+18

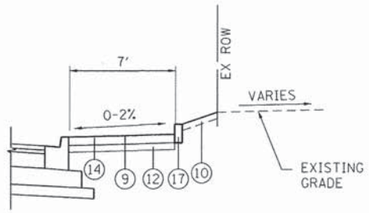
EXISTING TYPICAL SECTION LEGEND

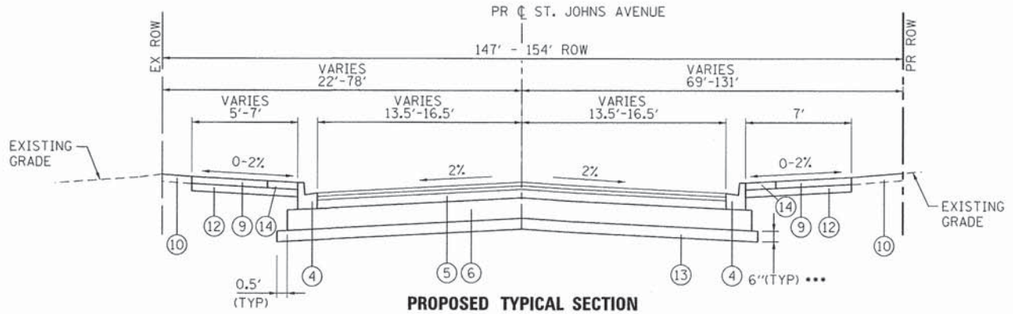
- (A) HOT-MIX ASPHALT PAVEMENT; DEPTH VARIES (7" TO 9")
- (B) GRANULAR MATERIAL
- (C) HOT-MIX ASPHALT SHOULDER
- (D) EXISTING GRADE
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) PCC SIDEWALK
- (G) HOT-MIX ASPHALT SURFACE REMOVAL 4-1/4"
- (H) PORTLAND CEMENT CONCRETE PAVEMENT, 6"

PROPOSED TYPICAL SECTION LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2-1/4"
- (3) HOT-MIX ASPHALT BASE COURSE, 9"
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5) HMA FULL DEPTH PAVEMENT, 13-1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (7) STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8 INCH
- (8) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (9) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (10) TOPSOIL, FURNISH AND PLACE, 4"; SODDING, SALT TOLERANT
- (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- (12) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (13) AGGREGATE SUBGRADE IMPROVEMENT (CU YD) (AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION)
- (14) BRICK PAVER BANDING
- (15) PEDESTRIAN RAIL (SPECIAL)
- (16) SEGMENTAL CONCRETE BLOCK WALL
- (17) CONCRETE CURB, TYPE B, 6"
- (18) PCC SIDEWALK 10 SP

• STA 177+12 TO STA 178+35





PROPOSED TYPICAL SECTION
ST. JOHN'S AVENUE
STA 40+00 TO STA 42+75

STRUCTURAL DESIGN TRAFFIC:	YEAR: 2030		
PV = 12,205	SU = 129	MU = 514	
ROAD/STREET CLASSIFICATION:	CLASS II		
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:			
P = 95	S = 1	M = 4	
TRAFFIC FACTOR:	ACTUAL TF = 2.14	AC TYPE = 20	
	MINIMUM T 0.50		
PG GRADE: BINDER = 64-22	SURFACE = 64-28		
SUBGRADE SUPPORT RATING:			
SSR = POOR	(STA. 107+50	TO	103+25
SSR = POOR	(STA. 160+44	TO	178+43

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"	4% @ 70 GYR.
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"	4% @ 70 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm); 9" (IN 3 LIFTS)	4% @ 50 GYR.
WIDENING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"	4% @ 70 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm); 9" (IN 3 LIFTS)	4% @ 50 GYR.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N50; (IL 9.5mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19 mm); PE-4", CE-6" (IN 2 LIFTS)	4% @ 50 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.
TEMPORARY PAVEMENT	
TEMP PAVEMENT (HMA BINDER IL-19 mm); 8" (IN 3 LIFTS)	4% @ 50 GYR.

• SEE STREETSCAPE PLAN FOR LOCATIONS OF BRICK PAVERS.

•• NO PORTLAND CEMENT CONCRETE SIDEWALK OR BRICK PAVER BANDING BETWEEN STA. 56+50 AND STA. 59+18

••• SEE GENERAL NOTE #3 UNDER EARTHWORK

• THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUATITIES IS 112 LBS/SQ YD/IN

• THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

• NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING

COMPANY NAME:
PROJECT CONTACT:
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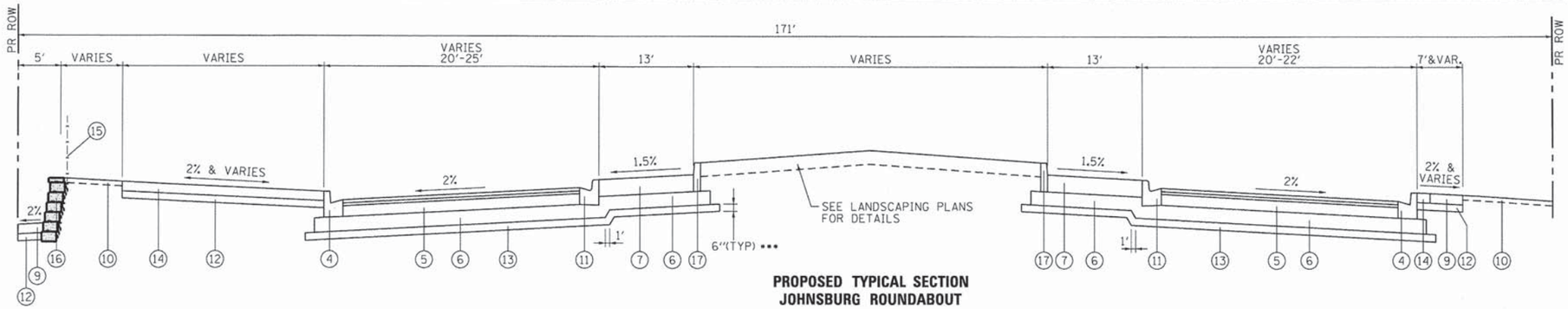
PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
JOHNSBURG RD, CHAPEL HILL RD & ST JOHN'S AVENUE

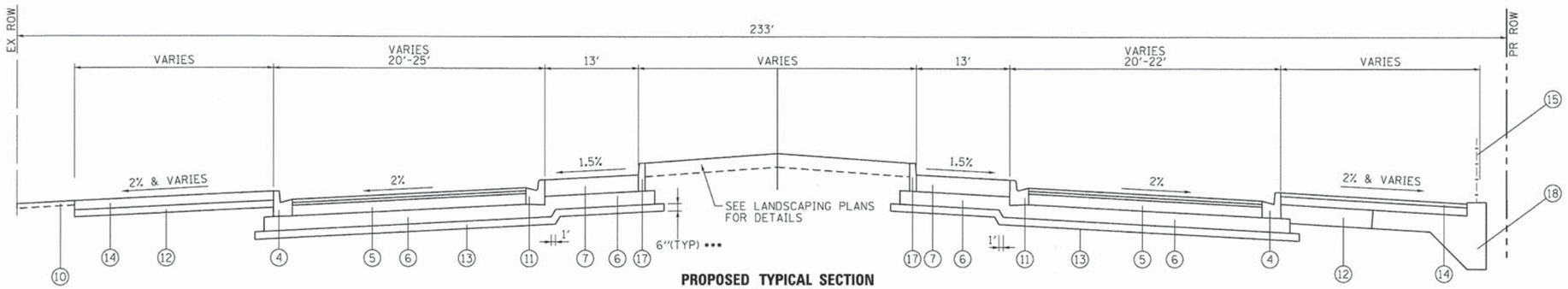
SCALE: N.T.S. | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	11
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
JOHNSBURG ROUNDABOUT

SECTION A-A



PROPOSED TYPICAL SECTION
JOHNSBURG ROUNDABOUT

SECTION B-B

••• SEE GENERAL NOTE #3 UNDER EARTHWORK

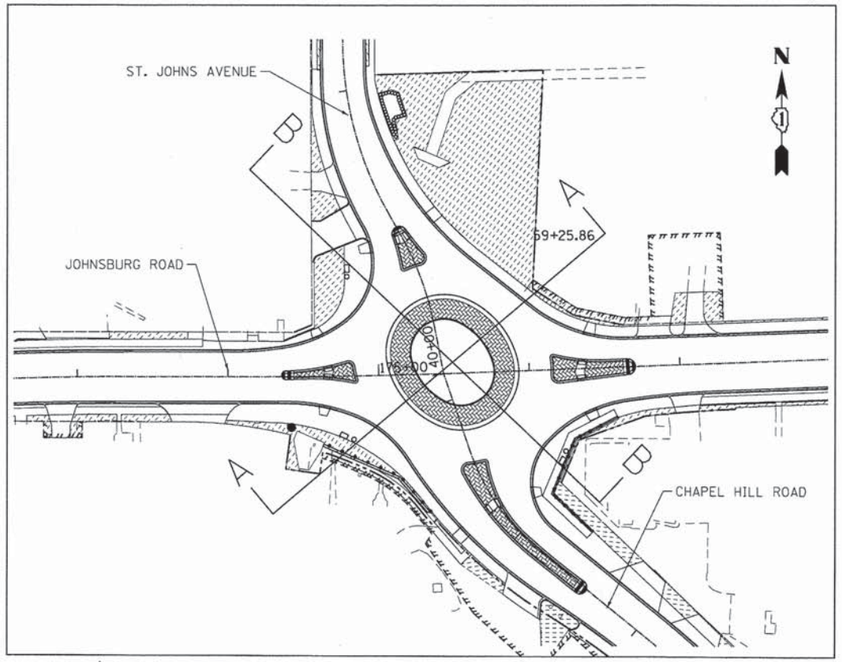
EXISTING TYPICAL SECTION LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT; DEPTH VARIES (7" TO 9")
- (B) GRANULAR MATERIAL
- (C) HOT-MIX ASPHALT SHOULDER
- (D) EXISTING GRADE
- (E) COMBINATION CONCRETE CURB AND GUTTER
- (F) PCC SIDEWALK
- (G) HOT-MIX ASPHALT SURFACE REMOVAL 4-1/4"
- (H) PORTLAND CEMENT CONCRETE PAVEMENT, 6"

PROPOSED TYPICAL SECTION LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 2-1/4"
- (3) HOT-MIX ASPHALT BASE COURSE, 9"
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (5) HMA FULL DEPTH PAVEMENT, 13-1/4"
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (7) STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8 INCH
- (8) STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (9) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (10) TOPSOIL, FURNISH AND PLACE, 4"; SODDING, SALT TOLERANT
- (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- (12) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (13) AGGREGATE SUBGRADE IMPROVEMENT (CU YD) (AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION)
- (14) BRICK PAVER BANDING
- (15) PEDESTRIAN RAIL (SPECIAL)
- (16) SEGMENTAL CONCRETE BLOCK WALL
- (17) CONCRETE CURB, TYPE B, 6"
- (18) PCC SIDEWALK 10 SP

SECTION LOCATION MAP



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PROJECT CONTACT:
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
JOHNSBURG ROUNDABOUT

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	12
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. CURVE PRJOHN-3
Δ = 10° 05′ 24″ (RT)
D = 3° 29′ 23″
R = 1,641.82′
T = 144.94′
L = 289.13′
E = 6.39′
e = 2.00%
T.R. = 40.92
S.E. RUN = 40.92
P.C. STA = 170+30.73
N: 2,081,160.78
E: 1,008,447.60
PI STA. = 171+75.67
N: 2,081,186.46
E: 1,008,590.24
P.T. STA = 173+19.86
N: 2,081,186.76
E: 1,008,735.18

PROP. CURVE PRJOHN-4
Δ = 2° 07′ 41″ (LT)
D = 1° 24′ 53″
R = 4,050.00′
T = 75.22′
L = 150.42′
E = 0.70′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 174+11.32
N: 2,081,186.95
E: 1,008,826.64
PI STA. = 174+86.54
N: 2,081,186.95
E: 1,008,826.64
P.T. STA = 175+61.74
N: 2,081,190.06
E: 1,008,977.02

PROP. CURVE PRJOHN-5
Δ = 9° 58′ 14″ (LT)
D = 6° 35′ 09″
R = 870.00′
T = 75.89′
L = 151.40′
E = 3.30′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 178+58.21
N: 2,081,201.68
E: 1,009,273.26
PI STA. = 179+34.10
N: 2,081,204.66
E: 1,009,349.09
P.T. STA = 180+09.61
N: 2,081,220.71
E: 1,009,423.26

PROP. CURVE PRCHAP-1
Δ = 4° 05′ 17″ (LT)
D = 9° 17′ 37″
R = 616.50′
T = 22.00′
L = 43.99′
E = 0.39′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 56+45.98
N: 2,080,985.27
E: 1,009,127.69
PI STA. = 56+67.99
N: 2,081,000.27
E: 1,009,111.59
P.T. STA = 56+89.97
N: 2,081,014.08
E: 1,009,094.47

PROP. CURVE PRCHAP-2
Δ = 32° 13′ 52″ (RT)
D = 38° 11′ 50″
R = 150.00′
T = 43.34′
L = 84.38′
E = 6.14′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 57+81.68
N: 2,081,071.67
E: 1,009,023.09
PI STA. = 58+25.02
N: 2,081,098.88
E: 1,008,989.36
P.T. STA = 58+66.06
N: 2,081,139.89
E: 1,008,975.34

PROP. CURVE PRSTJO-1
Δ = 18° 20′ 08″ (LT)
D = 28° 38′ 52″
R = 200.00′
T = 32.28′
L = 64.00′
E = 2.59′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 40+32.63
N: 2,081,221.39
E: 1,008,952.11
PI STA. = 40+64.91
N: 2,081,253.05
E: 1,008,945.86
P.T. STA = 40+96.63
N: 2,081,281.15
E: 1,008,929.97

PROP. CURVE PRSTJO-2
Δ = 23° 51′ 06″ (RT)
D = 23° 51′ 18″
R = 240.18′
T = 50.73′
L = 99.99′
E = 5.30′
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 41+14.57
N: 2,081,296.76
E: 1,008,921.15
PI STA. = 41+65.29
N: 2,081,349.17
E: 1,008,891.50
P.T. STA = 42+14.55
N: 2,081,391.39
E: 1,008,891.18

BENCHMARKS (DATUM IS NAVD 88)

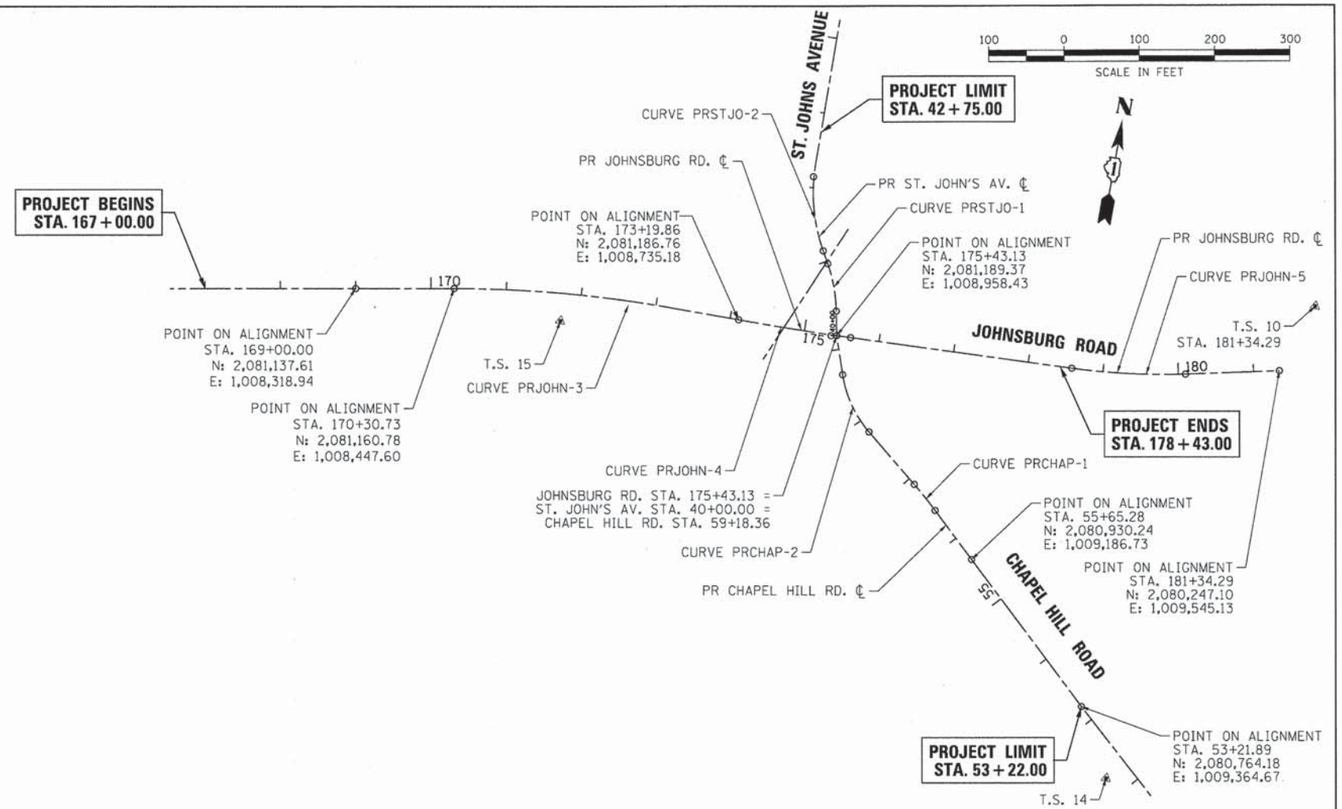
1. BM20 - RAILROAD SPIKE IN EAST FACE OF POWERPOLE LOCATED AT THE SOUTHWEST CORNER OF JOHNSBURG ROAD AND CHAPEL HILL ROAD. ELEVATION=755.42

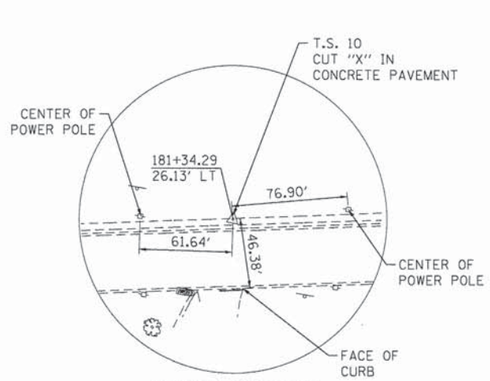
2. BM21 - RAILROAD SPIKE IN WEST FACE OF SERVICE POWERPOLE LOCATED AT THE NORTHEAST CORNER OF JOHNSBURG ROAD AND CHAPEL HILL ROAD. ELEVATION=756.15

3. BM22 - RAILROAD SPIKE IN SOUTH FACE OF POWERPOLE LOCATED AT THE NORTHWEST CORNER OF JOHNSBURG ROAD AND SPRING GROVE ROAD. ELEVATION=762.27

4. BM23 - RAILROAD SPIKE IN NORTH FACE OF 1ST POWERPOLE LOCATED WEST OF THE ENTRANCE TO DUTCH CREEK ESTATES AND ON THE SOUTH SIDE OF JOHNSBURG ROAD. ELEVATION=760.83

5. BM24 - RAILROAD SPIKE IN NORTH FACE OF POWERPOLE LOCATED ON THE SOUTH SIDE OF JOHNSBURG ROAD AND APPROXIMATELY 40 FEET WEST OF THE DRIVEWAY TO 3315 JOHNSBURG ROAD. ELEVATION=796.48





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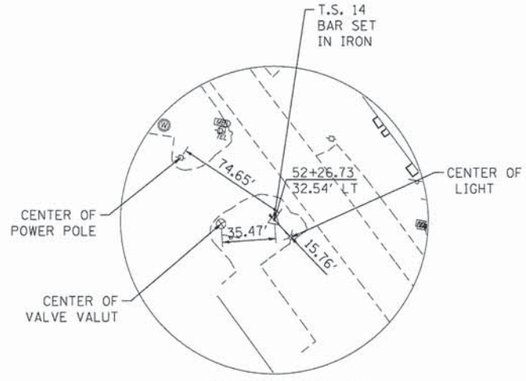

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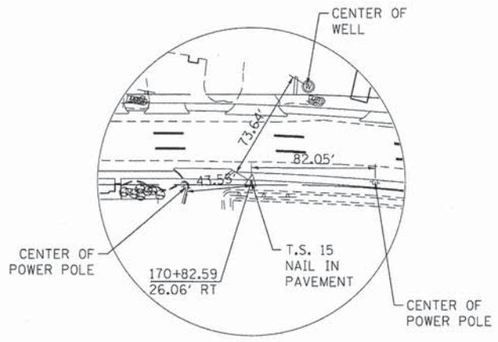

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184-001322

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	13
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN LEGEND

1. W20-2-4848 — DETOUR AHEAD / JOHNSBURG ROAD

2. DETOUR / EAST / JOHNSBURG ROAD — M4-8-2412, M3-2-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M6-3-2115

3. DETOUR / EAST / JOHNSBURG ROAD — M4-8-2412, M3-2-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M5-1L-2115

4. DETOUR / EAST / JOHNSBURG ROAD — M4-8-2412, M3-2-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M6-1-2115

5. DETOUR / EAST / JOHNSBURG ROAD — M4-8-2412, M3-2-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M5-1R-2115

6. DETOUR / EAST / JOHNSBURG ROAD — M4-8-2412, M3-2-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M6-1-2115

7. END DETOUR — M4-8A

8. R11-2-4830 — ROAD CLOSED — TYPE III BARICADES *

9. EFFECTIVE [DATE] — JOHNSBURG ROAD CLOSED AT CHAPEL HILL ROAD FOLLOW DETOUR

12. DETOUR / WEST / JOHNSBURG ROAD — M4-8-2412, M3-4-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M6-1-2115

13. DETOUR / WEST / JOHNSBURG ROAD — M4-8-2412, M3-4-2115, SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND, M6-1-2115

15. R11-4-6030 — ROAD CLOSED TO THRU TRAFFIC — TYPE III BARICADES *

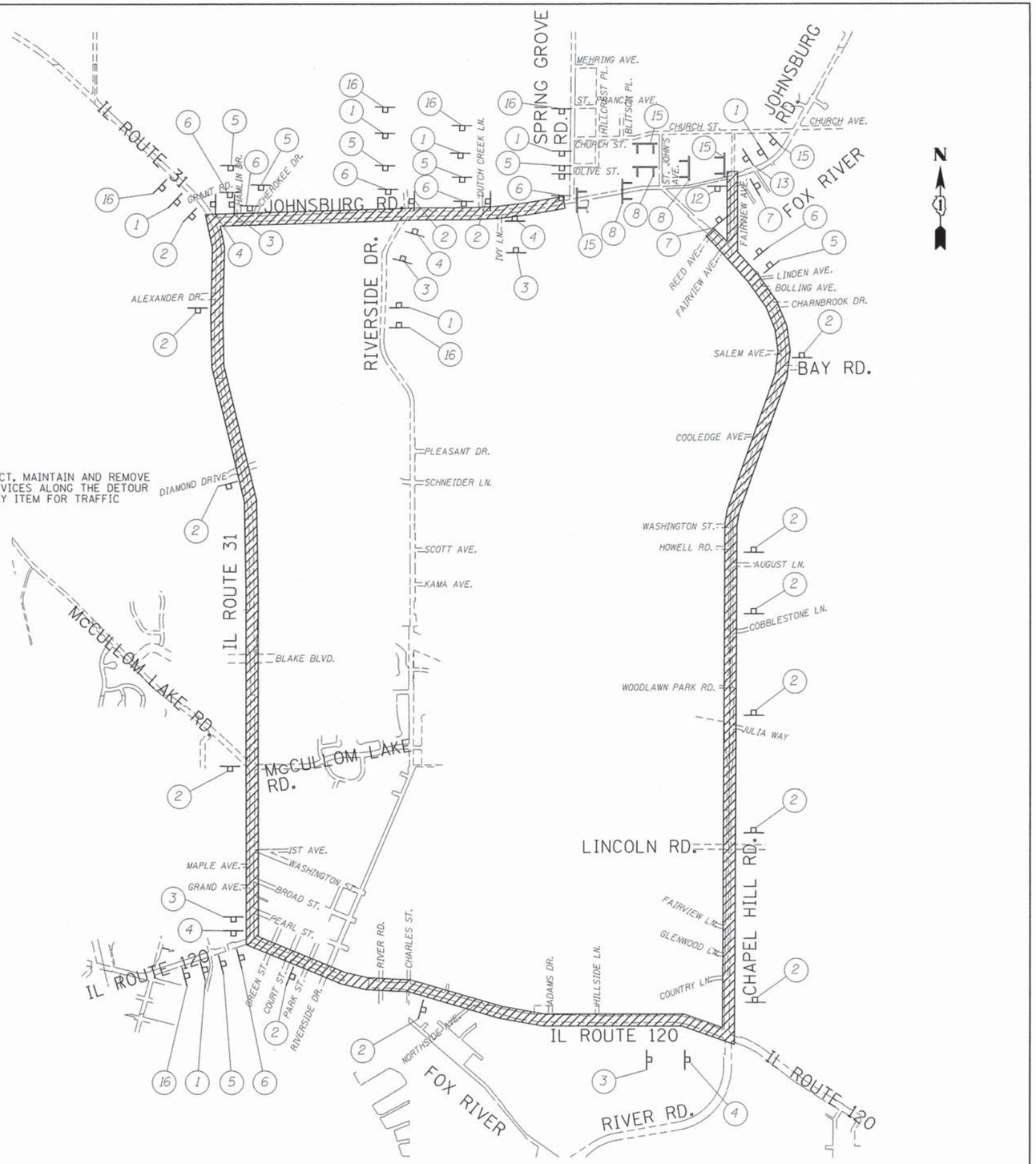
16. EFFECTIVE [DATE] — EAST JOHNSBURG ROAD CLOSED AT CHAPEL HILL ROAD FOLLOW DETOUR

* 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.

DETOUR LEGEND

- DETOUR ROUTE
- DETOUR GUIDE SIGN
- BARRICADE, TYPE III

NOTE:
THE WORK REQUIRED TO FURNISH, ERECT, MAINTAIN AND REMOVE ALL APPLICABLE TRAFFIC CONTROL DEVICES ALONG THE DETOUR ROUTE SHALL BE INCLUDED IN THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	14
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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DETOUR LEGEND

DETOUR ROUTE

DETOUR GUIDE SIGN

BARRICADE, TYPE III

NOTE:
THE WORK REQUIRED TO FURNISH, ERECT, MAINTAIN AND REMOVE ALL APPLICABLE TRAFFIC CONTROL DEVICES ALONG THE DETOUR ROUTE SHALL BE INCLUDED IN THE PAY ITEM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

SIGN LEGEND

(1) W20-2-4848
DETOUR AHEAD
JOHNSBURG ROAD

(2) DETOUR / EAST / JOHNSBURG ROAD
M4-8-2412
M3-2-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-3-2115

(3) DETOUR / EAST / JOHNSBURG ROAD
M4-8-2412
M3-2-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M5-1L-2115

(4) DETOUR / EAST / JOHNSBURG ROAD
M4-8-2412
M3-2-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-1-2115

(5) DETOUR / EAST / JOHNSBURG ROAD
M4-8-2412
M3-2-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M5-1R-2115

(6) DETOUR / EAST / JOHNSBURG ROAD
M4-8-2412
M3-2-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-1-2115

(7) END DETOUR
M4-8A

(8) R11-2-4830
ROAD CLOSED
TYPE III BARICADES *

(9) EFFECTIVE [DATE]
JOHNSBURG ROAD CLOSED AT CHAPEL HILL ROAD FOLLOW DETOUR

(10) DETOUR / WEST / JOHNSBURG ROAD
M4-8-2412
M3-4-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-3-2115

(11) DETOUR / WEST / JOHNSBURG ROAD
M4-8-2412
M3-4-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M5-1R-2115

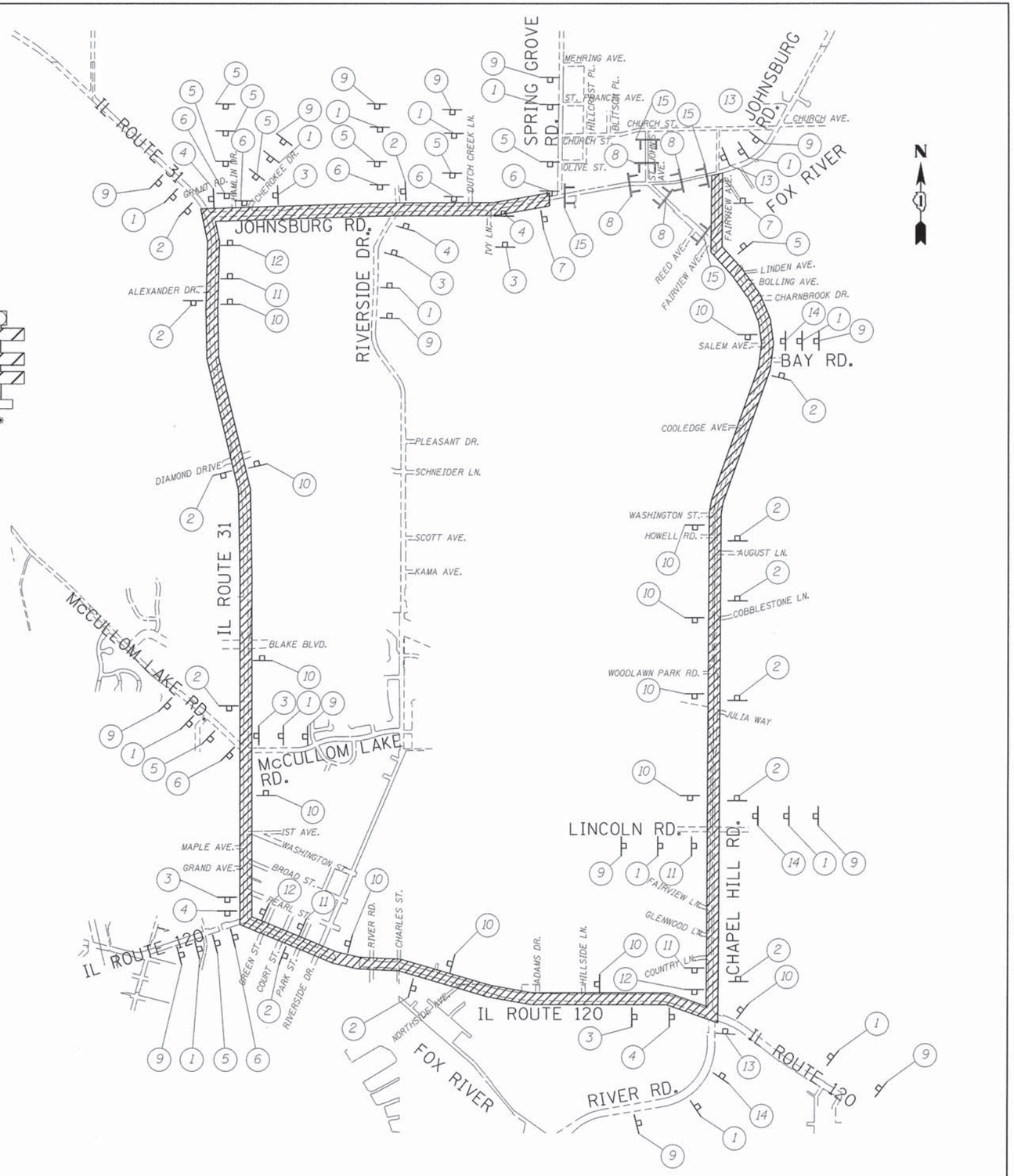
(12) DETOUR / WEST / JOHNSBURG ROAD
M4-8-2412
M3-4-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-1-2115

(13) DETOUR / WEST / JOHNSBURG ROAD
M4-8-2412
M3-4-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M6-1-2115

(14) DETOUR / WEST / JOHNSBURG ROAD
M4-8-2412
M3-4-2115
SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND
M5-1L-2115

(15) R11-4-6030
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARICADES *

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
STAGE 3

SCALE: 1"=1000' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	15
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. ALL TEMPORARY PAVEMENT MARKINGS & TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT THE BEGINNING OF EACH STAGE, AND SHALL BE MAINTAINED FOR THE DURATION OF THAT STAGE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

2. ALL TRAVEL LANES SHALL BE A MINIMUM ELEVEN FOOT (11') WIDE AND SHALL BE KEPT OPEN TO TRAFFIC ON JOHNSBURG ROAD DURING STAGES 1 AND 2.

3. ALL PAVEMENT MARKINGS CONFLICTING WITH REVISED TRAFFIC PATTERNS SHALL BE REMOVED. TYPE III MARKING TAPE SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN WHEN THE TEMPORARY MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS OR LANE SHIFTS. PAVEMENT MARKING PAINT SHALL BE USED ON ALL SURFACES TO BE REMOVED OR COVERED WITH SURFACE COURSE.

4. TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO THE APPLICABLE STANDARDS INCLUDED IN THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER. ALL "ROAD CLOSED" AND "DETOUR AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS.

5. THE ENGINEER, THE VILLAGE OF JOHNSBURG, IDOT AND THE MCHENRY COUNTY DIVISION OF TRANSPORTATION SHALL BE NOTIFIED AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF HIS TRAFFIC CONTROL SUBCONTRACTOR OR TRAFFIC CONTROL REPRESENTATIVES FOR THE PROJECT, (INCLUDING A 24-HR EMERGENCY NUMBER) AT THE PRECONSTRUCTION MEETING.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL DETOUR AND CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS AND LOCATION OF ANY SIGNS.

8. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WITH THE DETOUR IN EFFECT AND TRAFFIC CONTROL SHALL BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR IN A MANNER MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL).

9. ALL DETOUR SIGNING SHALL BE POST MOUNTED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY, INCLUDING SUNDAYS AND HOLIDAYS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNS, INCLUDING VEGETATION REMOVAL OR TRIMMING IF DEEMED NECESSARY BY THE ENGINEER.

12. THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE THE ROAD IS TO REOPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

MAINTENANCE OF TRAFFIC GENERAL NOTES (CONT)

13. THE CONTRACTOR SHALL PROVIDE INFORMATION SIGNS ON TEMPORARY SUPPORTS FOR ALL COMMERCIAL DRIVEWAYS. THIS WORK WILL BE PAID FOR PER DISTRICT ONE DETAIL TC-26. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION OPERATIONS WITH THE USE OF AGGREGATE FOR TEMPORARY ACCESS.

14. THE CONTRACTOR SHALL PROVIDE TEMPORARY BITUMINOUS RAMP WEDGES TO TRANSITION THE DIFFERENTIAL ELEVATIONS CAUSED BY CONSTRUCTION BETWEEN THE NEW CONSTRUCTION AND THE EXISTING PAVEMENT. ANY PAVEMENT DROP-OFFS GREATER THAN 3 INCHES IMMEDIATELY ADJACENT TO TRAFFIC SHALL NOT BE LEFT OVERNIGHT. PROVIDE TEMPORARY HOT-MIX ASPHALT RAMP WEDGES OR OTHER MITIGATING MEASURES APPROVED BY THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL).

15. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS AND AS DIRECTED BY THE ENGINEER.

16. EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION, ARE TO BE PROTECTED FROM DAMAGE. ANY DAMAGED SIGNS CAUSED BY HIS WORK SHALL BE REPLACED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL).

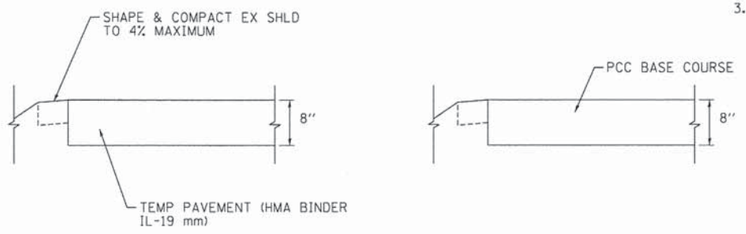
17. TRAFFIC CONTROL DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS AND DETOUR PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER AND SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL).

18. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING/MOVING ALL DETOUR SIGNING DUE TO ADJACENT CONSTRUCTION PROJECTS AT NO ADDITIONAL COST.

19. TEMPORARY INFORMATION SIGNS SHALL BE PROVIDED FOR ALL BUSINESSES LOCATED WITHIN THE PROJECT LIMITS INDICATING THAT ACCESS TO THE BUSINESSES ARE AVAILABLE. TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

20. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

21. ALL LIGHT POLES SHALL BE IN POSSESSION OF THE ELECTRIC CONTRACTOR PRIOR TO THE START OF STAGE 3 OF THE PROJECT.



TEMPORARY PAVEMENT DETAIL

SUGGESTED MAINTENANCE OF TRAFFIC AND CONSTRUCTION STAGING

PRE-STAGE

1. CONSTRUCT TEMPORARY PAVEMENT AT LOCATION SHOWN IN THE MAINTENANCE OF TRAFFIC PLAN.
2. REMOVE CONFLICTING SIGNS.
3. RELOCATE EXISTING SIGNS AS NEEDED.
4. REMOVE ALL PAVEMENT MARKINGS IN CONFLICT WITH MAINTENANCE OF TRAFFIC STRIPING.

STAGE 1

1. PLACE STAGE 1 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS.
2. MAINTAIN TRAFFIC LANES AS SHOWN IN STAGE 1.
3. CONSTRUCT CURB AND GUTTER, BINDER AND DRAINAGE STRUCTURES BETWEEN STA 169+00 TO STA 174+25.
4. CONSTRUCT PORTIONS OF ST. JOHN'S AVENUE, JOHNSBURD ROAD WEST OF CHAPEL HILL ROAD AND CHAPEL HILL ROAD WITHIN THE WORK ZONE.
5. INSTALL TEMPORARY DRAINAGE SYSTEM AND CONSTRUCT SOUTH PORTION OF THE BOX CULVERT AS DETAILED IN THE STRUCTURAL PLAN SHEETS.

STAGE 2

1. PLACE STAGE 2 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS.
2. MAINTAIN TRAFFIC LANES AS SHOWN IN STAGE 2.
3. CONSTRUCT CURB AND GUTTER, BINDER AND DRAINAGE STRUCTURES WITHIN THE WORK ZONE BETWEEN STA 169+00 AND STA 174+25.
4. CONTINUE TO CONSTRUCT PORTIONS OF ST. JOHN'S AVENUE, JOHNSBURG ROAD WEST OF CHAPEL HILL ROAD, AND CHAPEL HILL ROAD WITHIN THE WORK ZONE.
5. INSTALL TEMPORARY DRAINAGE SYSTEM AND CONSTRUCT THE NORTH PORTION OF THE BOX CULVERT AS DETAILED IN THE STRUCTURAL PLAN SHEETS.

STAGE 3

1. JOHNSBURG ROAD AT IT'S INTERSECTION WITH CHAPEL HILL ROAD/ST. JOHN'S AVENUE SHALL BE CLOSED TO ALL TRAFFIC FOR A DURATION NOT EXCEEDING 45 CALENDAR DAYS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION). THE INTERSECTION MUST BE REOPENED TO ALL TRAFFIC 45 CALENDAR DAYS AFTER THE INTERSECTION IS CLOSED TO TRAFFIC. LIMITS OF FULL CLOSURE ARE IDENTIFIED ON THE MAINTENANCE OF TRAFFIC PLAN STAGE 3. ANY REVISIONS TO THE LIMITS OF CLOSURE MUST BE APPROVED BY THE ENGINEER.
2. JOHNSBURG ROAD, CHAPEL HILL ROAD AND ST. JOHN'S AVENUE WITHIN THE PROJECT LIMITS BUT OUTSIDE THE LIMITS OF FULL CLOSURE SHALL REMAIN OPEN TO LOCAL TRAFFIC.
3. ONCE JOHNSBURG ROAD, CHAPEL HILL ROAD, ST. JOHN'S AVENUE, AND THE ROUNDABOUT ARE CONSTRUCTED UP TO SURFACE COURSE, LIGHTING AT THE ROUNDABOUT IS INSTALLED AND OPERATIONAL PER LIGHTING PLAN, AND PERMANENT PAVEMENT MARKINGS AND SIGNING ARE IN PLACE IN ACCORDANCE WITH THE PAVEMENT, SIGNING, AND LANDSCAPING PLANS. THE ROADWAYS AND ROUNDABOUT SHALL BE OPENED TO ALL TRAFFIC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC – GENERAL NOTES
JOHNSBURG ROAD

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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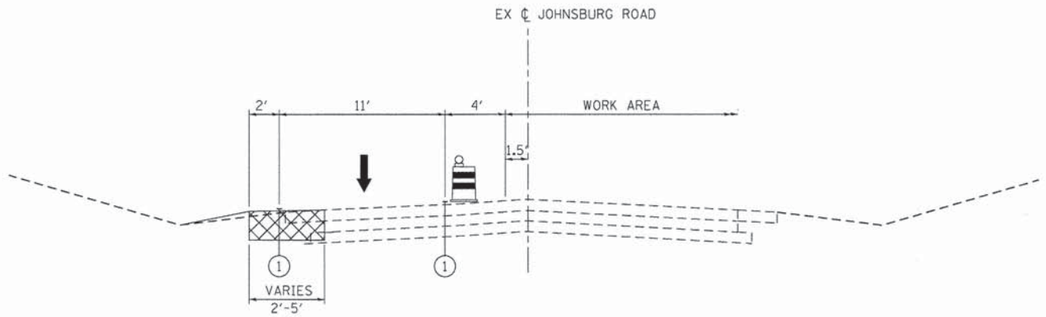
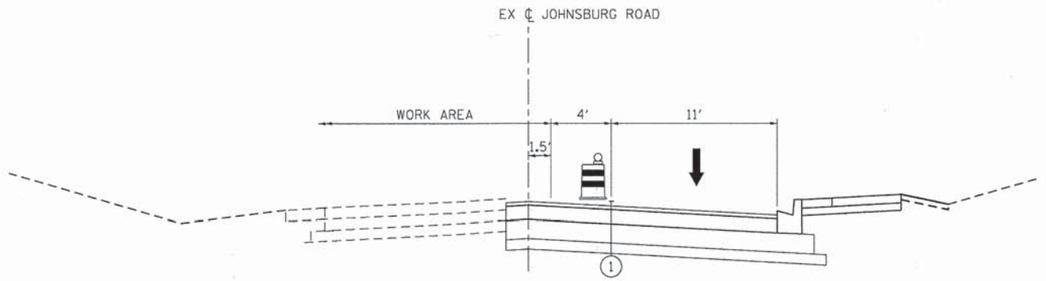
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE 1 - JOHNSBURG ROAD
STA 169+00 TO STA 174+25



STAGE 2 - JOHNSBURG ROAD
STA 169+00 TO STA 174+25

LEGEND

TEMPORARY CONCRETE BARRIER

TEMPORARY PAVEMENT

DIRECTION OF TRAFFIC

PROPOSED DRUM BARRICADE WITH BI-DIRECTIONAL STEADY BURNING LIGHT 50 FT C-C ON TANGENTS AND 20' C-C ON TAPER SECTIONS

(1) TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS
JOHNSBURG ROAD

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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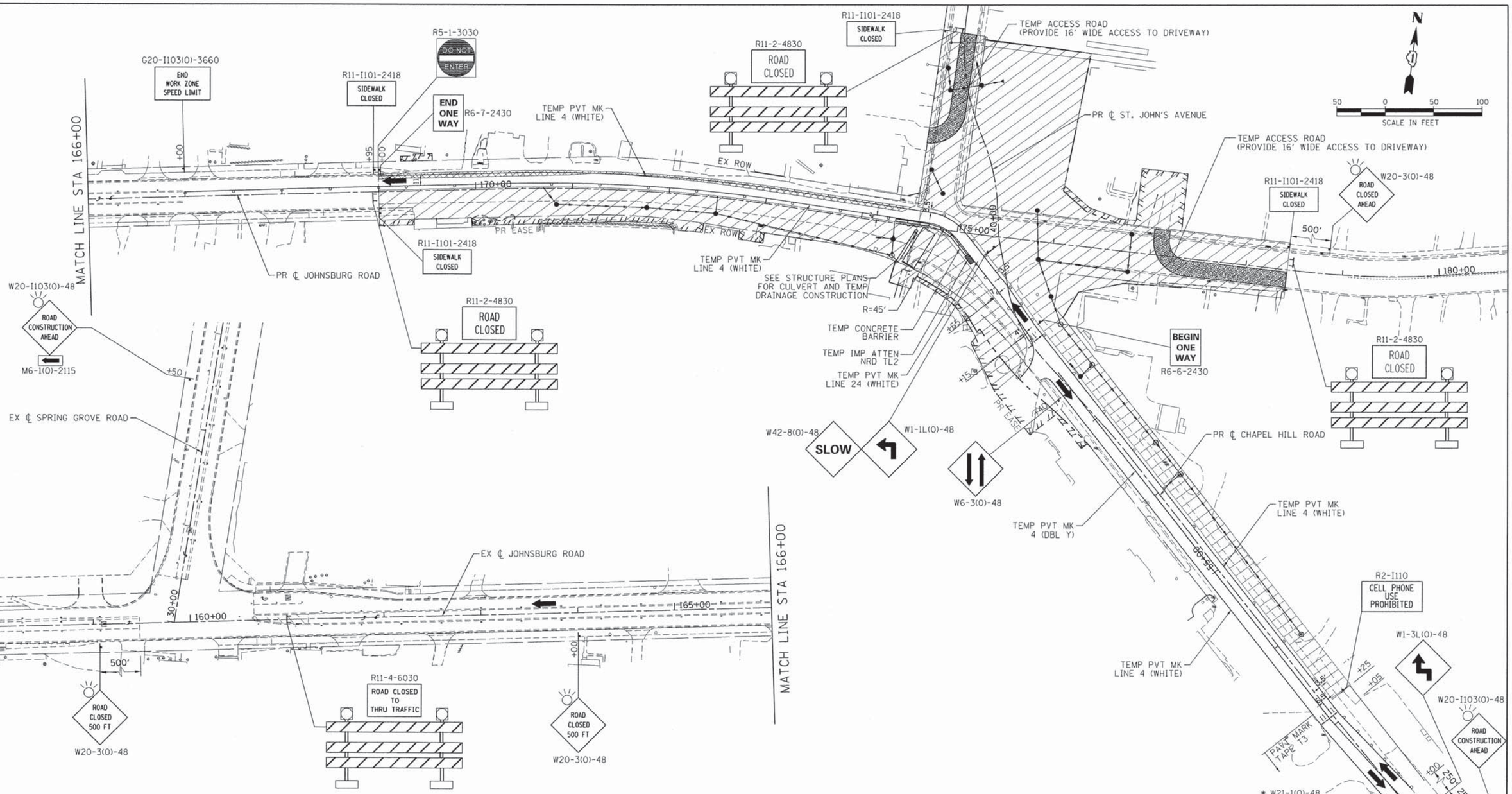
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TEMPORARY PAVEMENT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- MAINTENANCE OF TRAFFIC SIGN
- PROPOSED DRUM BARRICADE WITH BI-DIRECTIONAL STEADY BURNING LIGHT 50 FT C-C ON TANGENTS AND 20' C-C ON TAPER SECTIONS

NOTES:

SEE DETOUR PLAN FOR ADDITIONAL SIGNING.

* THE W21-1(0)-48 SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.

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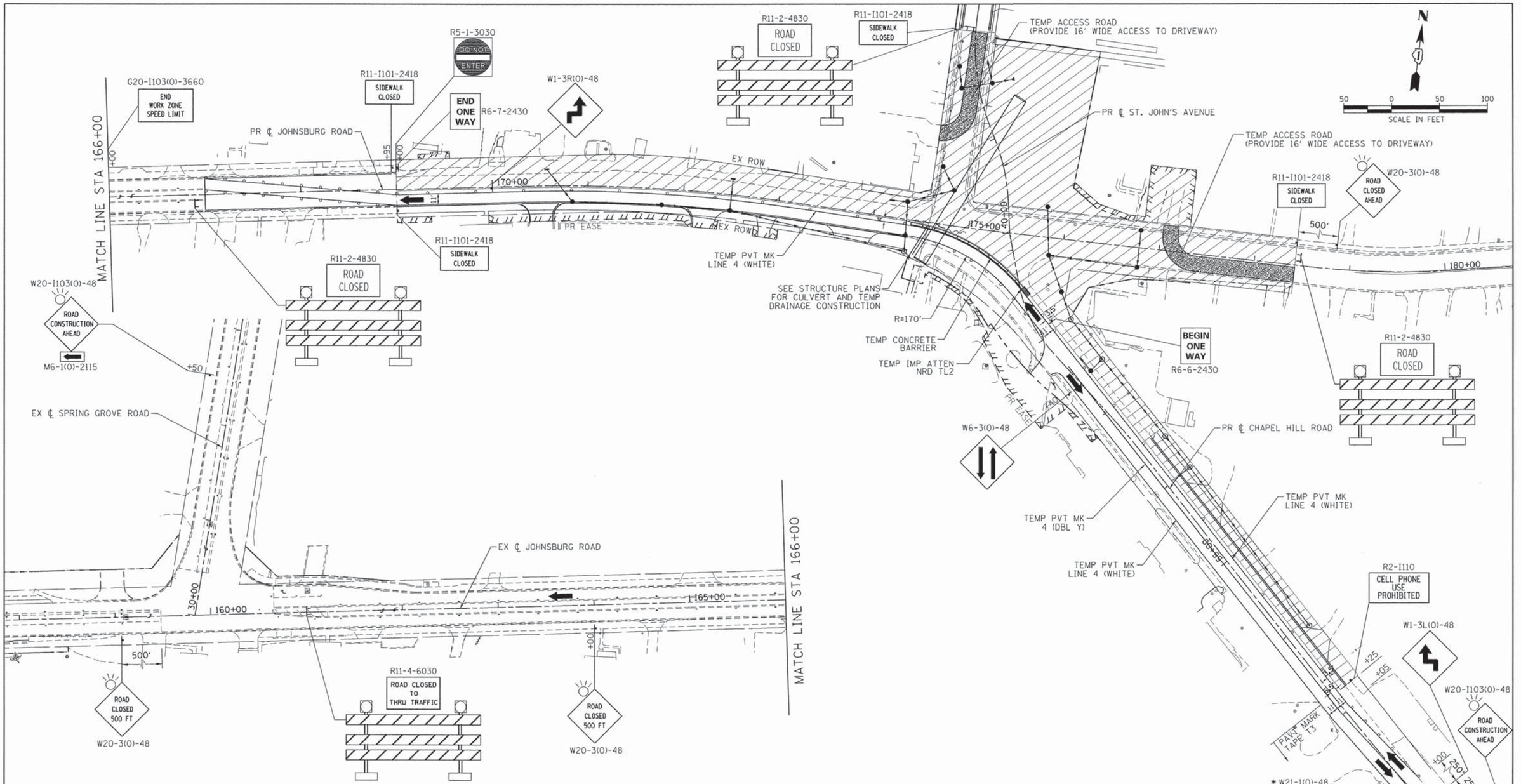
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC – STAGE 1
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	18
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- TEMPORARY PAVEMENT
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- MAINTENANCE OF TRAFFIC SIGN
- PROPOSED DRUM BARRICADE WITH BI-DIRECTIONAL STEADY BURNING LIGHT 50 FT C-C ON TANGENTS AND 20' C-C ON TAPER SECTIONS

NOTES:

SEE DETOUR PLAN FOR ADDITIONAL SIGNING.

* THE W21-1(0)-48 SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 11/4/2013 11:13:26 AM
FILE NAME: 080622-mot2-03.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm # 184-001322

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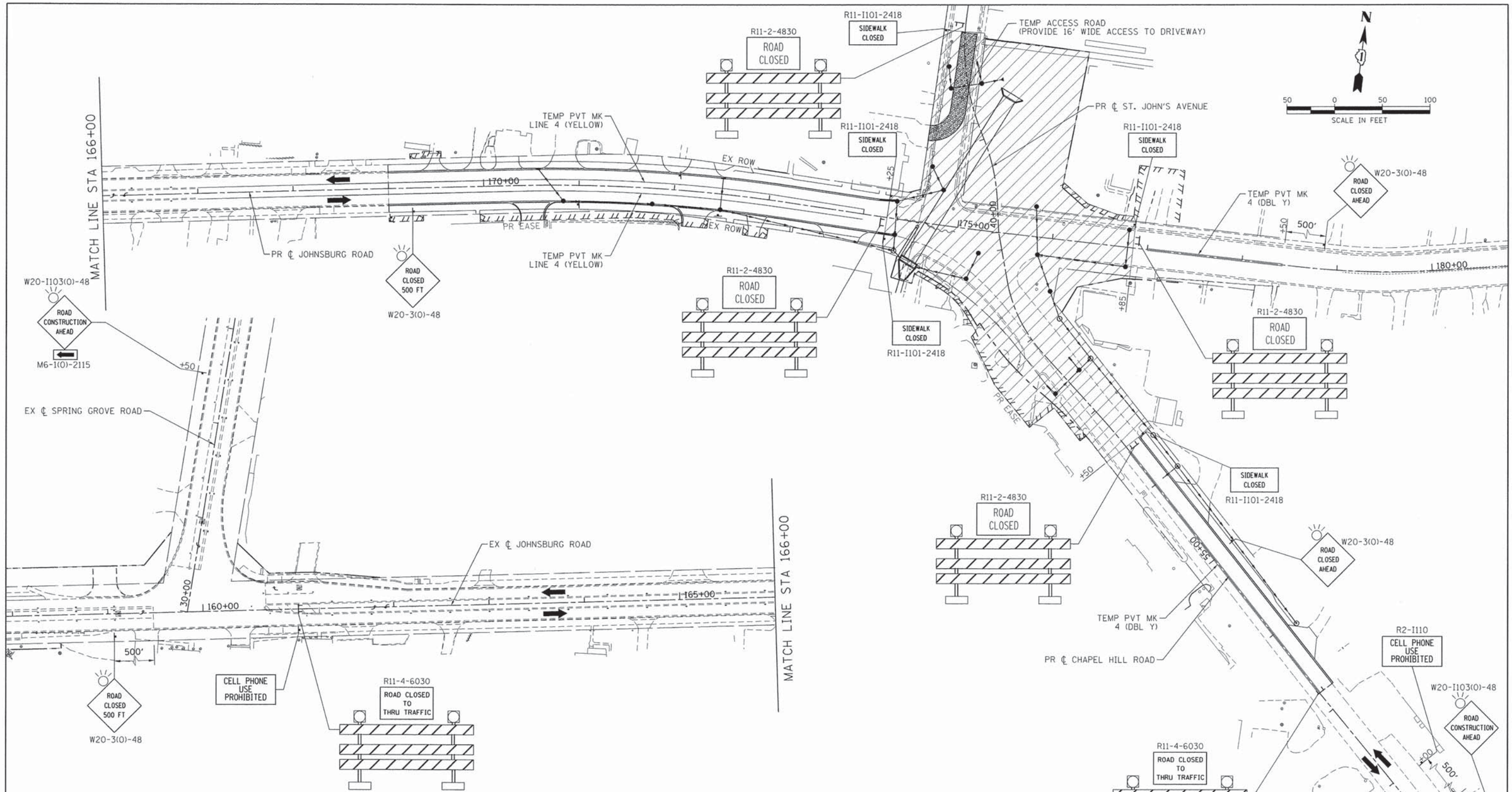
PLOT SCALE = 1' = 50'	CHECKED - TH	REVISED -
PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC – STAGE 2
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	19
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- WORK ZONE
- FULL CLOSURE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- MAINTENANCE OF TRAFFIC SIGN
- PROPOSED DRUM BARRICADE WITH BI-DIRECTIONAL STEADY BURNING LIGHT 50 FT C-C ON TANGENTS AND 20' C-C ON TAPER SECTIONS

NOTES:

SEE DETOUR PLAN FOR ADDITIONAL SIGNING.

* THE W21-1(0)-48 SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.

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CLIENT:
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PLOT DRIVER: pdf.pltr
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm # 184-001322

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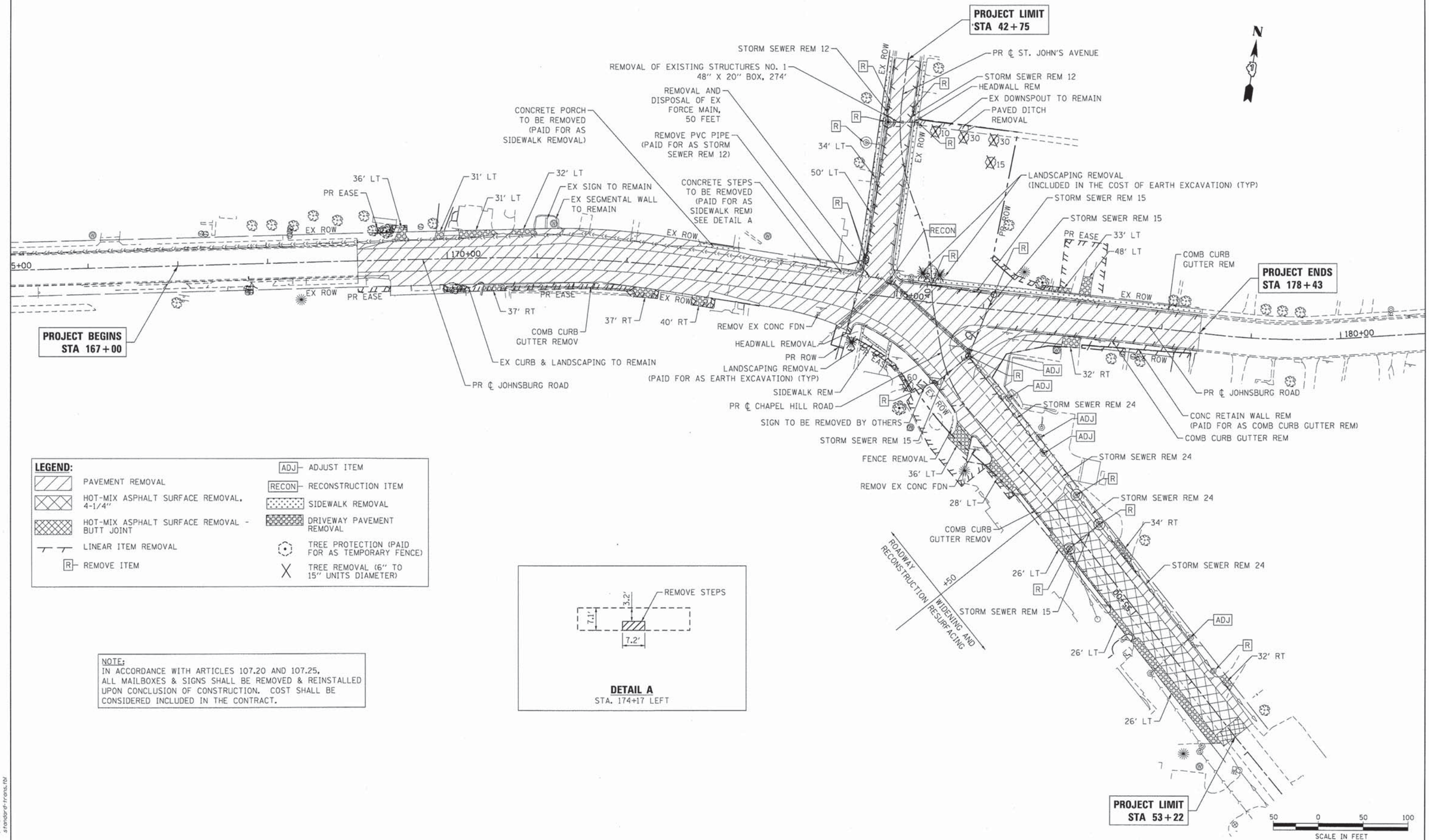
PLOT SCALE = 1" = 50'	CHECKED - TH	REVISED -
PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC – STAGE 3
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	20
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, 4-1/4"
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- LINEAR ITEM REMOVAL
- [R]- REMOVE ITEM
- [ADJ]- ADJUST ITEM
- [RECON]- RECONSTRUCTION ITEM
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- TREE PROTECTION (PAID FOR AS TEMPORARY FENCE)
- TREE REMOVAL (6" TO 15" UNITS DIAMETER)

DETAIL A
STA. 174+17 LEFT

NOTE:
IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25, ALL MAILBOXES & SIGNS SHALL BE REMOVED & REINSTALLED UPON CONCLUSION OF CONSTRUCTION. COST SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 11:59:43 AM
FILE NAME: 080622-rem-02.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	21
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECT BEGINS STA 167+00

PROJECT LIMIT STA 42+75

PROJECT ENDS STA 178+43

SEE INTERSECTION GRADING PLAN SHEET AND INTERSECTION DETAIL PLAN SHEET FOR JOHNSBURG ROAD ROUNDABOUT DETAILS

PCC DRIVEWAY PAVT 8 (TYP)
STAB DRIVEWAY 8 (TYP)
PC CONC SIDEWALK 5 (TYP)
COMB CC&G TB6.12 (TYP)
BRICK PAVER BANDING (TYP) (SEE STREETSCAPE PLAN DETAILS)
PC CONC SIDEWALK 5 (TYP)
CONC STEPS (PAID FOR AS CONC SIDEWALK 6) (SEE PORCH DETAIL PLAN SHEET)
PR ℄ JOHNSBURG ROAD
CONC PORCH (PAID FOR AS CONC SIDEWALK 6) (SEE PORCH DETAIL PLAN SHEET)
CONC CURB TB
COMB CC&G TB6.12
MATCH EXISTING
PR ℄ ST. JOHN'S AVENUE
PR ROW
PR ℄ JOHNSBURG ROAD STA 175+43.1
PR ℄ CHAPEL HILL ROAD STA 59+18.4
PR ℄ ST. JOHN'S AVENUE STA 40+00.0
DECORATIVE CROSSWALK (TYP) (SEE STREETSCAPE DETAILS)
PR ℄ JOHNSBURG ROAD
COMB CC&G TB6.12
MATCH EXISTING
EX ROW
PR EASE
+51.9 C.E.
+93.0 C.E.
+25.6 C.E.
+84.4 C.E.
+72.9 C.E.
+26.9 C.E.
+44.7 C.E.
+18.5 C.E.
+12.2 P.E.
+13.2 P.E.
+50.6 C.E.
+21.5 C.E.
+88.4 C.E.
+80.2 C.E.
+15.3 C.E.
9'
24'
7.5'R
5'R
7' (TYP)
12'
21'
16.5'
35'
20'
23'
22'
11'
15'
59+25.86
170+00
+38
175+00
40+00
180+00
80°45'23"
73°14'28"
STA 169+00
HMA FULL DEPTH PAVEMENT, 13-1/4"
HMA SC "D" 2" N70
STA 167+00 TO STA 169+00
COMB CC&G TB6.12 (TYP)
PC CONC SIDEWALK 5 (TYP)
SIDEWALK CONNECT TO WALKWAY (TYP)
DECORATIVE CROSSWALK (TYP) (SEE STREETSCAPE DETAILS)
CONC CURB TB
COMB CC&G TB6.12
HMA PAVT FD 13-1/4
COMB CC&G TB6.12
PC CONC SIDEWALK 5 (TYP)
CONCRETE WALL TO REMAIN
SIDEWALK CONNECT TO WALKWAY
SEGMENT CONC BLK WALL (SEE STRUCTURAL PLANS FOR DETAILS)
PEDESTRIAN RAIL
PC CONC SIDEWALK 5
PR ℄ CHAPEL HILL ROAD BRICK PAVER PLAZA (TYP) (PLAZA PAVERS PAID FOR AS BRICK PAVER BANDING)
SEE CHAPEL HILL ROAD PLAN AND PROFILE
SIDEWALK CONNECT TO WALKWAY
CONC CURB TB
COMB CC&G TB6.12
PC CONC SIDEWALK 5 (TYP)
PC SIDEWALK 10 SP (SEE STRUCTURAL PLAN FOR DETAILS)
PEDESTRIAN RAIL (SPECIAL)
EX PAVEMENT TO REMAIN BEYOND
CONNECT TO EX SIDEWALK STA. 178+44

N

50 0 50 100
SCALE IN FEET

NOTE:

ALL DRIVEWAYS SHALL CONSIST OF PORTLAND CEMENT CONCRETE FROM BACK OF CURB TO SIDEWALK. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, OF THICKNESS REQUIRED.

PROPOSED SIDEWALK THAT CROSSES THROUGH PROPOSED DRIVEWAYS SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY SHALL BE THE SAME AS THE DRIVEWAY THICKNESS.

DRIVEWAY REPLACEMENTS FROM BACK OF SIDEWALK TO RIGHT OF WAY/EASEMENT SHALL MATCH EXISTING AND BE PAID FOR AS STABILIZED DRIVEWAYS, OF THICKNESS REQUIRED.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., STRUCTURE NO(S)/NG, CK'KD, BY, DATE

PROPOSED ℄ CHAPEL HILL ROAD/ST. JOHN'S AVENUE
PR CHAPEL HILL ROAD ℄
EX GRADE JOHNSBURG ROAD
PR ℄/PGL JOHNSBURG ROAD
VPI STA. 168+39.00 ELEVATION 761.70
VPI STA. 171+00.00 ELEVATION 760.00
VPI STA. 173+16.00 ELEVATION 757.50
VPI STA. 174+65.00 ELEVATION 754.83
VPI STA. 175+07.85 ELEVATION 755.68
VPI STA. 175+93.10 ELEVATION 755.82
VPI STA. 176+70.00 ELEVATION 754.28
+2.95%
-0.63%
-0.63%
-1.16%
-1.76%
-1.79%
-1.79%
2%
2%
+0.97%
+20.00 EL. 758.46
+40.00 EL. 761.01
+86.00 EL. 757.85
+46.00 EL. 756.96
+45.00 EL. 755.18
+85.00 EL. 755.23
+40.00 EL. 754.88
+00.00 EL. 754.57
755.78
ex = -0.98'
K = 62
220.00' v.c.
ex = -0.05'
K = 94
60.00' v.c.
ex = 0.19'
K = 11
40.00' v.c.
ex = 0.22'
K = 20
60.00' v.c.

166+00	167+00	168+00	169+00	170+00	171+00	172+00	173+00	174+00	175+00	176+00	177+00	178+00	179+00	180+00	181+00
775															
770															
765															
760															
755															
750															
745															
740															
735															
	754.95	756.39	757.70 / 757.87	759.10 / 759.27	760.13 / 760.30	760.75 / 760.92	760.96 / 761.13	761.15 / 760.94	760.91 / 760.63	760.65 / 760.31	760.30 / 760.00	759.86 / 759.42	759.52 / 758.84	759.10 / 758.26	758.40 / 757.67	757.35 / 756.89	756.00 / 755.99	754.74 / 755.11	753.95 / 755.53	753.59 / 756.89	753.78 / 755.68	754.27 / 754.71	754.73 / 754.57	755.15 / 755.05	755.56 / 755.54	756.00	756.37	756.68	757.03	757.42	757.77

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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Illinois Professional Design Firm # 184-001322

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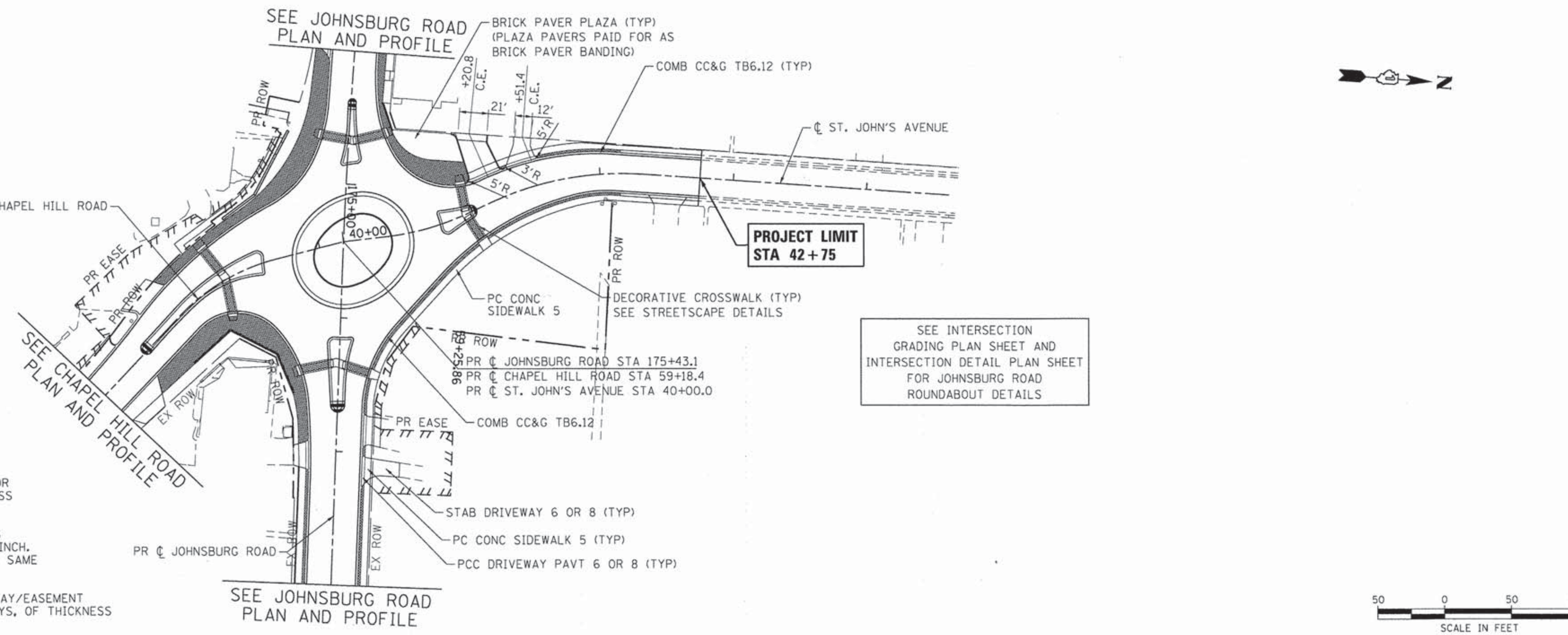
PLOT SCALE = 1" = 50'	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	22
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



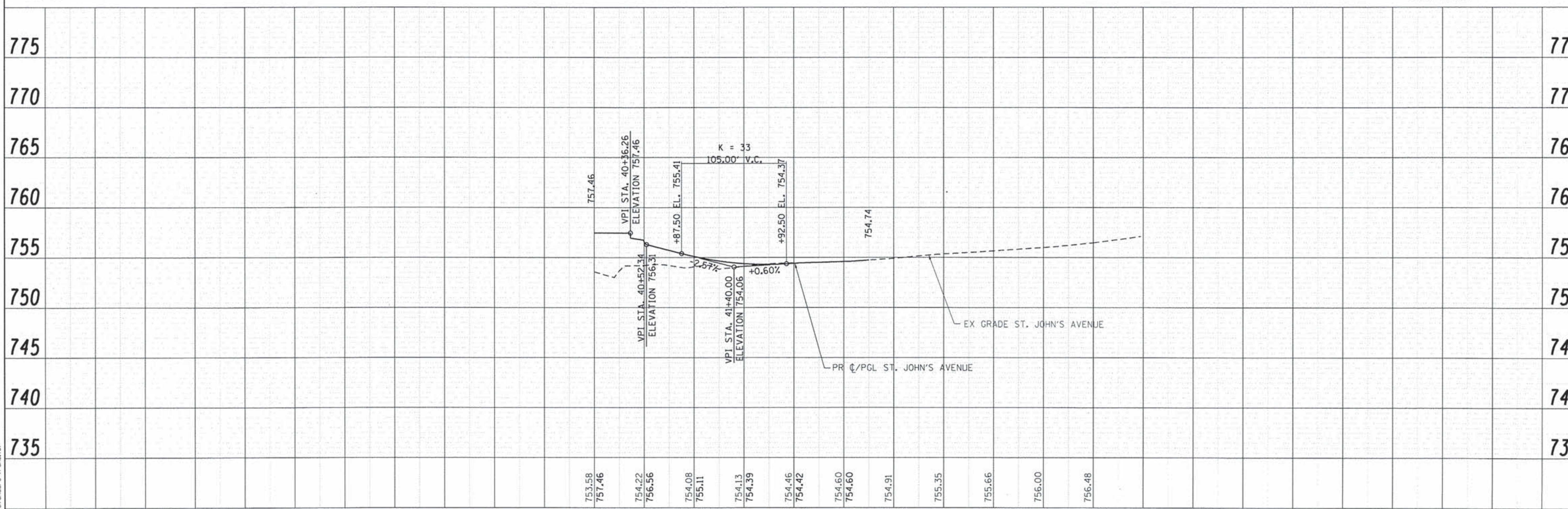
SEE INTERSECTION GRADING PLAN SHEET AND INTERSECTION DETAIL PLAN SHEET FOR JOHNSBURG ROAD ROUNDABOUT DETAILS

NOTE:

ALL DRIVEWAYS SHALL CONSIST OF PORTLAND CEMENT CONCRETE FROM BACK OF CURB TO SIDEWALK. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, OF THICKNESS REQUIRED.

PROPOSED SIDEWALK THAT CROSSES THROUGH PROPOSED DRIVEWAYS SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY SHALL BE THE SAME AS THE DRIVEWAY THICKNESS.

DRIVEWAY REPLACEMENTS FROM BACK OF SIDEWALK TO RIGHT OF WAY/EASEMENT SHALL MATCH EXISTING AND BE PAID FOR AS STABILIZED DRIVEWAYS, OF THICKNESS REQUIRED.



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

PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTAT'NS CH'KD	
NOTE BOOK	NO.
BY	DATE

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
ST. JOHN'S AVENUE

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	23
		CONTRACT NO. 63870		

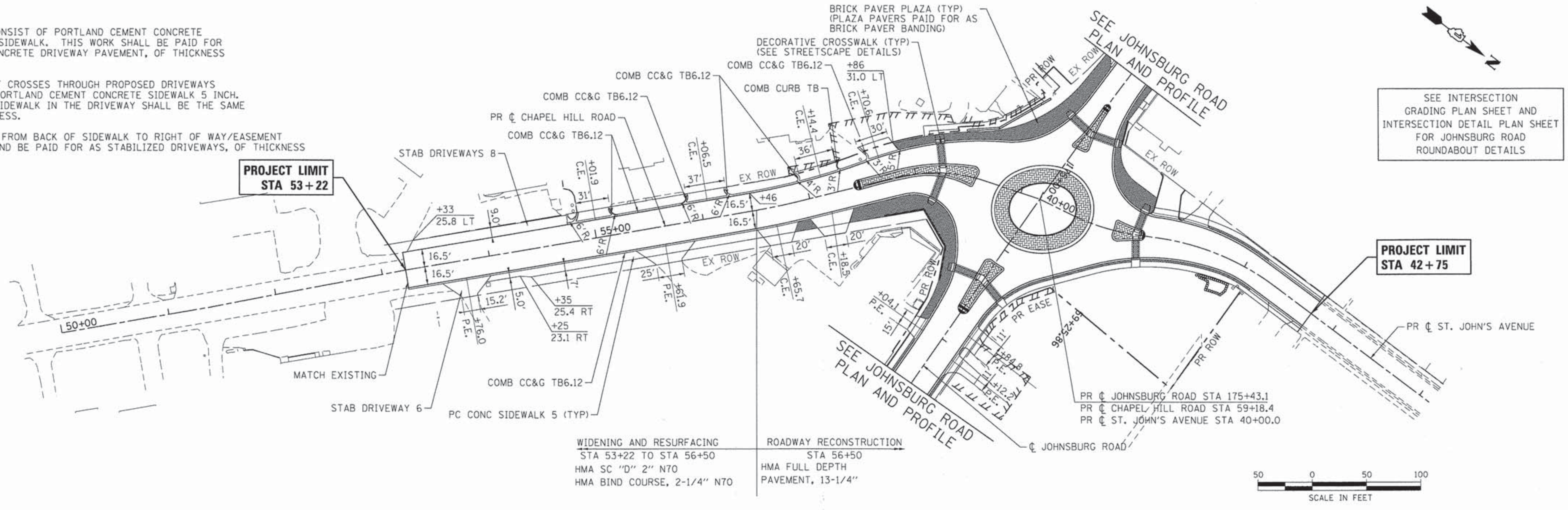
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

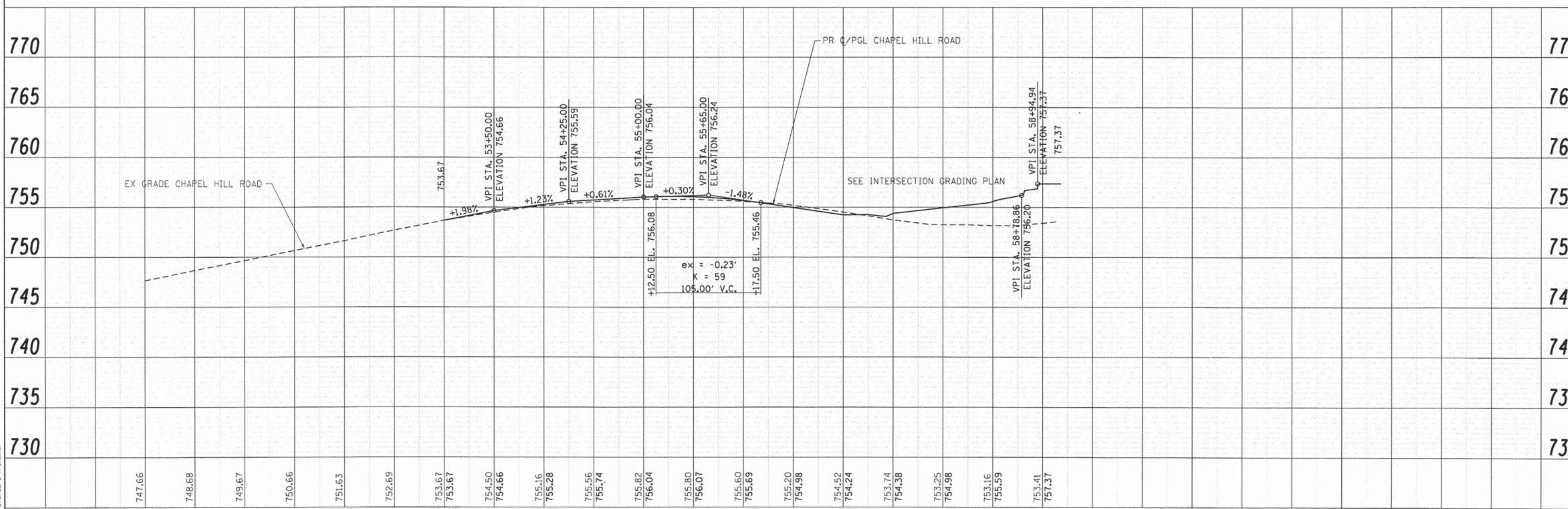
NOTE:

ALL DRIVEWAYS SHALL CONSIST OF PORTLAND CEMENT CONCRETE FROM BACK OF CURB TO SIDEWALK. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, OF THICKNESS REQUIRED.

PROPOSED SIDEWALK THAT CROSSES THROUGH PROPOSED DRIVEWAYS SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY SHALL BE THE SAME AS THE DRIVEWAY THICKNESS.

DRIVEWAY REPLACEMENTS FROM BACK OF SIDEWALK TO RIGHT OF WAY/EASEMENT SHALL MATCH EXISTING AND BE PAID FOR AS STABILIZED DRIVEWAYS, OF THICKNESS REQUIRED.





PLAN	SURVEYED	
NOTE BOOK	PLOTTED	
NO.	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	
NOTE BOOK	PLOTTED	
NO.	GRADES CHECKED	
	B.M. NOTED	
	STRUCTURE NOTAT'NS CH'KD	

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PROJECT CONTACT:
CLIENT:
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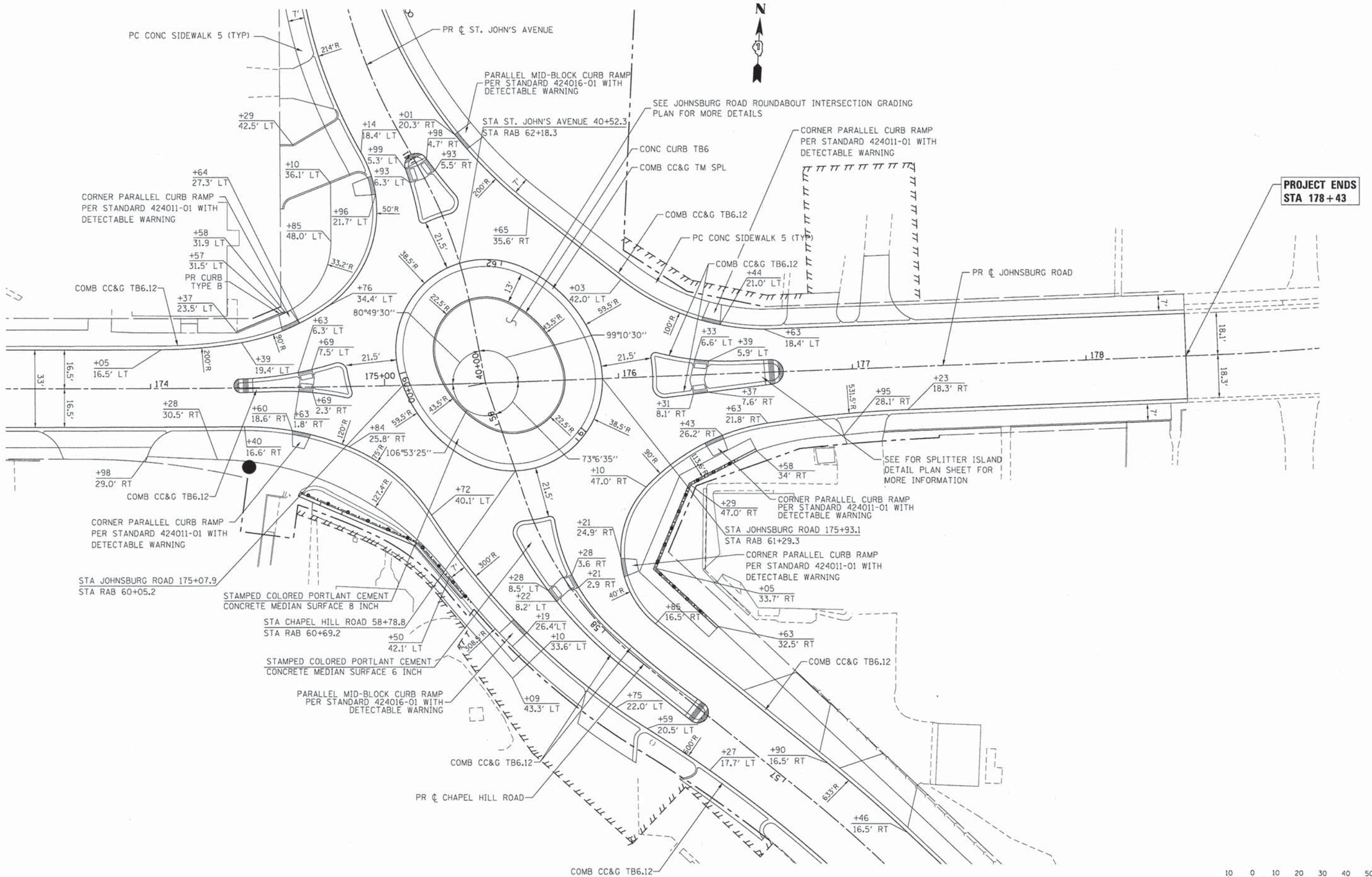
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
CHAPEL HILL ROAD

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	24
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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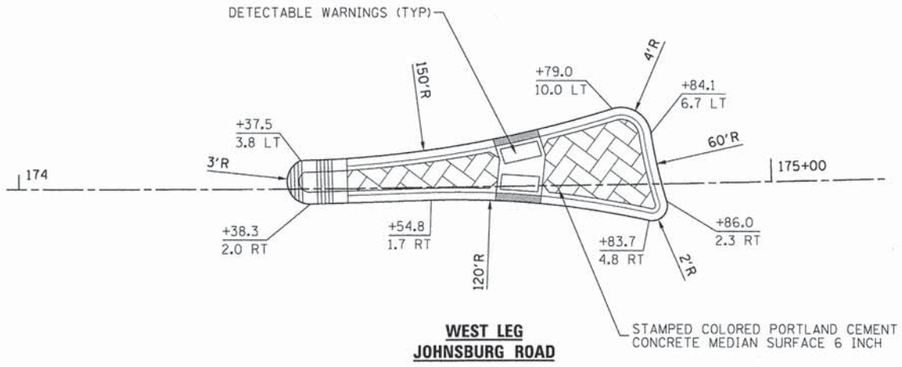
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

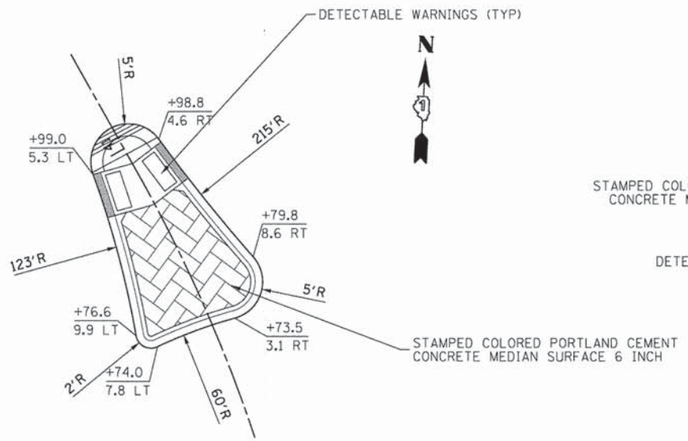
INTERSECTION DETAIL PLAN
JOHNSBURG ROAD ROUNDABOUT

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

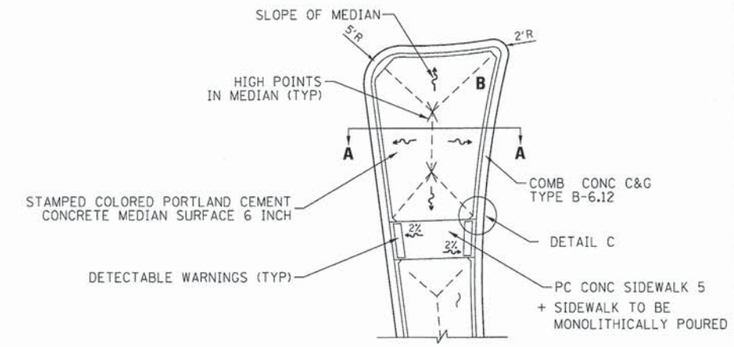
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	25
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



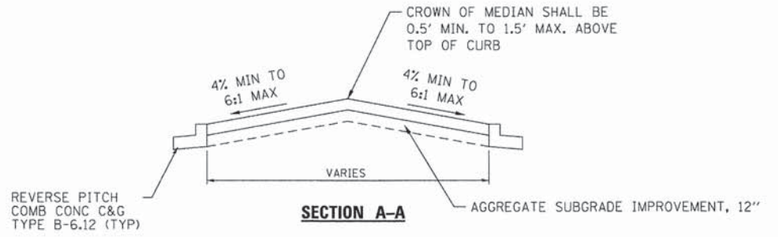
WEST LEG
JOHNSBURG ROAD



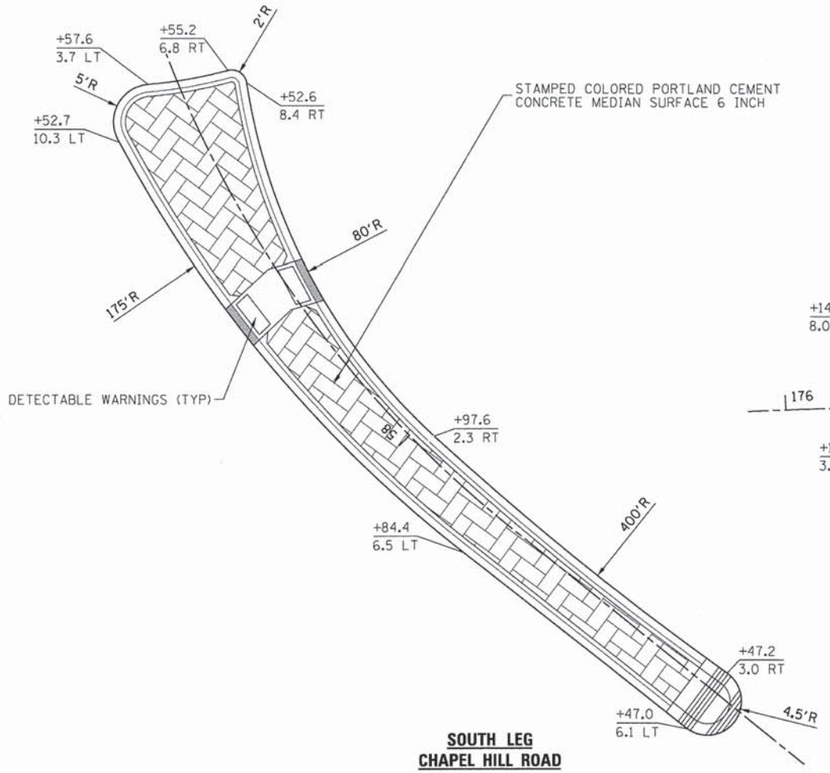
NORTH LEG
ST JOHN'S AVENUE



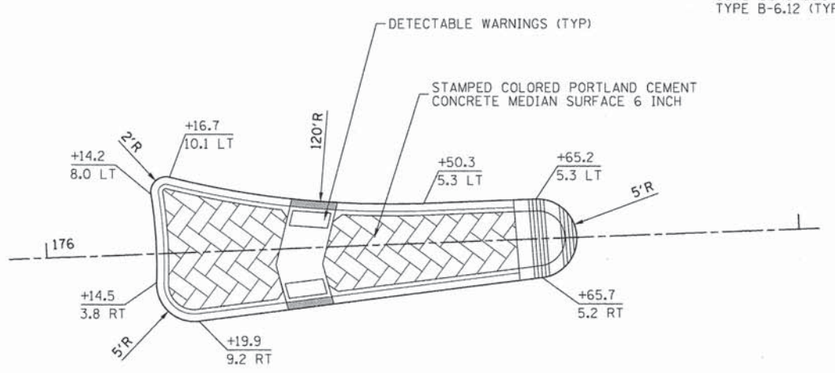
TYPICAL SPLITTER ISLAND
END BY ROUNDABOUT
(NOT TO SCALE)



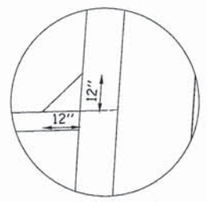
SECTION A-A



SOUTH LEG
CHAPEL HILL ROAD



EAST LEG
JOHNSBURG ROAD



DETAIL C

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 12:00:24 PM
FILE NAME: 080622-splitter.dgn
PLOT DRIVER: pdf.stt
PEN TABLE: standard-trans.tbl

HRGreen.com
Illinois Professional Design Firm
184-001322

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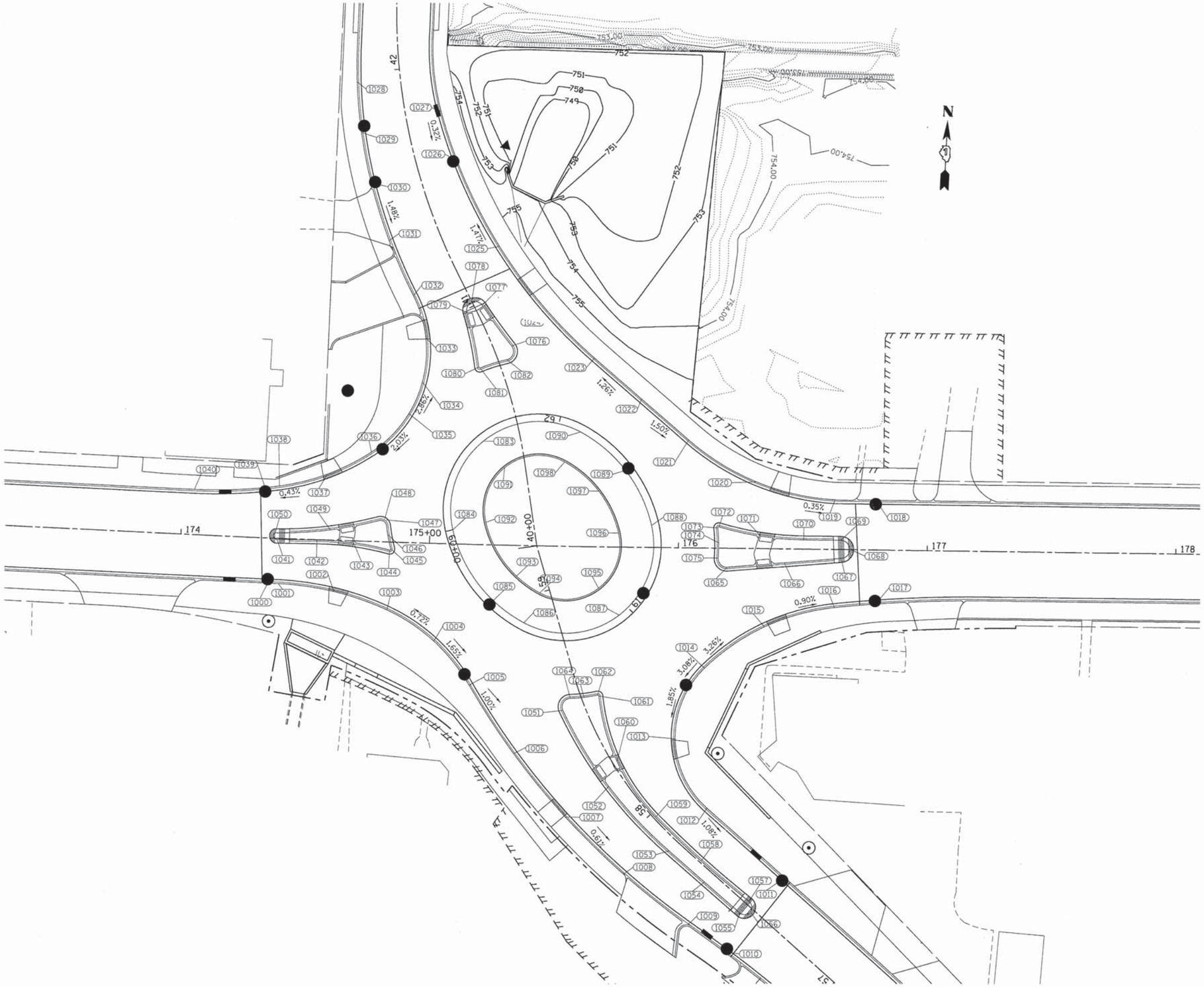
PLOT SCALE = 1" = 10'	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPLITTER ISLAND DETAILS
JOHNSBURG ROAD ROUNDABOUT

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	26
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



POINT	NORTH	EAST	ELEVATION	DESCRIPTION
1000	2081168.9214	1008851.1831	755.4982	LP
1001	2081168.9302	1008855.4238	755.5105	PC
1002	2081166.8266	1008877.8914	755.6170	MID
1003	2081160.4992	1008899.5519	755.7776	PCC
1004	2081148.9451	1008919.0618	756.0188	HP
1005	2081132.0835	1008934.0547	755.6747	PCC
1006	2081105.5061	1008953.3093	755.2155	QUARTER
1007	2081081.1783	1008975.3378	755.0310	MID
1008	2081059.3883	1008999.8793	754.8473	QUARTER
1009	2081040.3939	1009026.6433	754.6286	PCC
1010	2081030.3584	1009042.0241	754.5322	LP
1011	2081061.3282	1009064.7074	754.4230	LP
1012	2081087.6590	1009032.0696	754.9140	PC
1013	2081114.9152	1009017.8656	755.2163	MID
1014	2081143.8647	1009028.1939	756.0135	PCC, HP
1015	2081161.5431	1009051.4125	754.9582	MID
1016	2081170.7003	1009079.1212	754.5012	PT
1017	2081172.6049	1009095.2981	754.4700	LP
1018	2081214.6069	1009093.5557	754.5000	LP
1019	2081213.9885	1009077.1914	754.5396	PC
1020	2081219.4764	1009045.4900	755.3092	MID
1021	2081234.8951	1009017.2523	755.7885	PT
1022	2081250.3233	1008997.5358	756.0889	HP
1023	2081265.7516	1008977.8192	755.7780	PC
1024	2081285.5696	1008956.0386	755.4049	QUARTER
1025	2081308.3930	1008937.4310	754.9318	MID
1026	2081341.8173	1008918.6073	754.4184	LP
1027	2081360.9897	1008911.2952	754.4854	PCC
1028	2081371.5271	1008876.2999	754.5149	PC
1029	2081351.0098	1008879.4951	754.3828	QUARTER
1030	2081330.8949	1008884.6493	754.3478	LP
1031	2081308.3087	1008893.0200	754.4576	QUARTER
1032	2081286.7973	1008903.8581	755.0146	PCC
1033	2081270.1073	1008909.7398	755.3550	QUARTER
1034	2081252.4186	1008909.2314	755.8455	MID
1035	2081239.4894	1008904.4323	756.2941	HP
1036	2081223.3143	1008890.1602	755.8148	PCC
1037	2081213.6365	1008872.9002	755.5898	MID
1038	2081208.0396	1008853.9202	755.4887	PCC
1039	2081207.1178	1008848.2098	755.4778	LP
1040	2081205.0226	1008819.8593	756.0199	PT
1041	2081186.6834	1008854.0085	755.8165	PT
1042	2081187.1777	1008870.0546	755.5267	PC
1043	2081186.7353	1008884.8142	755.6256	MID
1044	2081184.5069	1008899.4113	755.7179	PCC
1045	2081185.0408	1008899.8966	755.7110	PCC
1046	2081190.7446	1008898.3819	755.7196	MID
1047	2081196.5673	1008897.4201	755.7486	PCC
1048	2081196.9150	1008896.8748	755.7543	PCC
1049	2081191.4749	1008875.2330	755.5812	MID
1050	2081189.2711	1008853.0270	755.8279	PCC
1051	2081123.9863	1008972.2266	755.3726	PCC
1052	2081094.4674	1008992.1777	755.0542	MID
1053	2081069.6489	1009017.7403	754.7473	PT
1054	2081057.9541	1009032.5708	754.5835	MID
1055	2081046.2630	1009047.3968	754.6003	PC
1056	2081046.8962	1009051.5826	754.5558	MID
1057	2081051.0736	1009050.8531	754.6064	PCC
1058	2081066.3028	1009030.8193	754.6493	MID
1059	2081082.8911	1009011.6332	754.9581	PCC
1060	2081104.5780	1008994.9464	755.3010	MID
1061	2081130.5626	1008986.3692	755.6748	PCC
1062	2081130.9028	1008985.8487	755.7005	PCC
1063	2081129.7085	1008980.4455	755.7165	MID
1064	2081129.0041	1008974.9569	755.6789	PCC
1065	2081184.7568	1009035.2619	755.3055	PT
1066	2081187.6553	1009058.0670	754.8315	MID
1067	2081190.5538	1009080.8721	754.9618	PC
1068	2081194.4775	1009084.0515	754.9906	MID
1069	2081197.8265	1009080.2716	754.8607	PT
1070	2081197.2545	1009065.3584	754.7224	PC
1071	2081197.8165	1009048.1301	755.1388	MID
1072	2081200.8093	1009031.1543	755.5759	PCC
1073	2081200.3373	1009030.6415	755.6058	PCC
1074	2081194.3196	1009031.3260	755.6362	MID
1075	2081188.2637	1009031.4161	755.6242	PCC
1076	2081268.7209	1008944.2914	755.4575	PCC
1077	2081284.3893	1008931.6696	755.5520	PCC
1078	2081285.3893	1008927.3097	754.5091	MID
1079	2081281.1977	1008925.7030	755.5597	PCC
1080	2081259.5628	1008931.4732	755.7097	PCC
1081	2081259.2573	1008932.0638	755.7721	PCC
1082	2081263.1562	1008942.6189	755.7737	PCC
1083	2081230.0839	1008934.8610	756.6326	HP
1084	2081194.0464	1008924.4232	756.4183	PCC
1085	2081166.4896	1008942.0259	756.2436	LP
1086	2081158.2484	1008954.7687	756.3231	PCC
1087	2081163.3283	1008992.8615	756.5433	HP
1088	2081200.0148	1009004.0359	756.3236	PCC
1089	2081221.4257	1008992.5725	756.1947	LP
1090	2081235.8087	1008973.6916	756.3496	PCC
1091	2081219.9815	1008943.9405	757.3276	MID
1092	2081197.7326	1008937.4964	757.1133	PCC
1093	2081176.8012	1008950.8671	756.9386	MID
1094	2081170.5413	1008960.5465	757.0181	PCC
1095	2081173.6775	1008984.0643	757.2383	MID
1096	2081196.3270	1008990.9631	757.0186	PCC
1097	2081212.5906	1008982.2556	756.8897	MID
1098	2081223.5158	1008967.9138	757.0446	PCC

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SCALE IN FEET

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 10:06:46 PM
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PLOT DRIVER: pdf.plt
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184-001322

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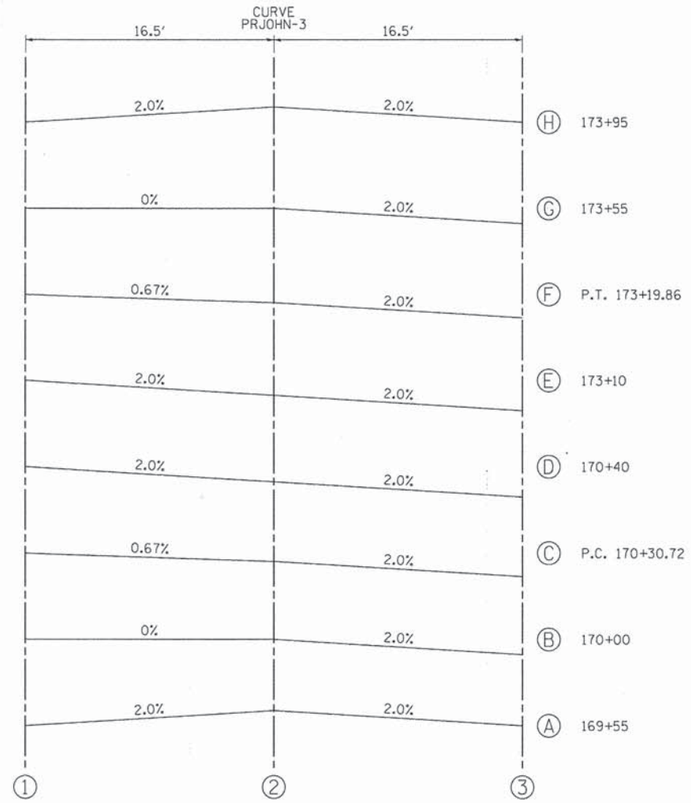
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

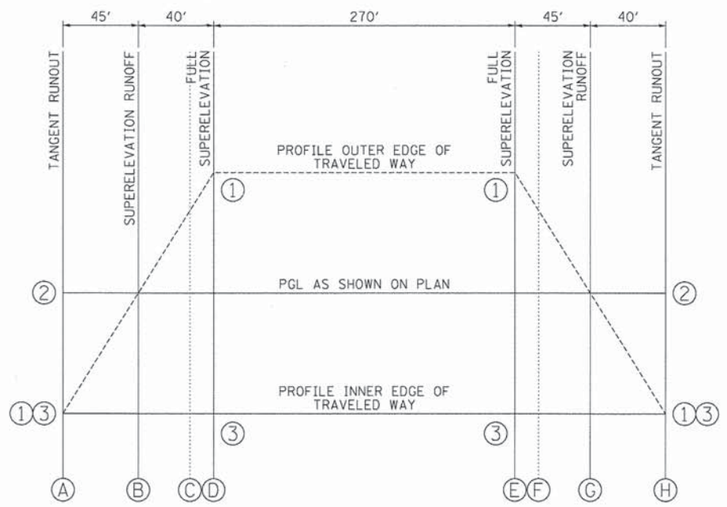
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION GRADING PLAN
JOHNSBURG ROAD ROUNDABOUT

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	27
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





CURVE PRJOHN-3 SUPERELEVATION TRANSITION DIAGRAM

AXIS OF ROTATION: ABOUT CENTERLINE

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 0:51 PM
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAILS
JOHNSBURG ROAD RECONSTRUCTION

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	28
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECT LIMIT
STA 42+75

PR ℄ ST. JOHN'S AVENUE

PR ℄ JOHNSBURG ROAD

PROJECT BEGINS
STA 167+00

SEE SANITARY PLAN SHEET FOR DETAIL

EX FORCE MAIN

EX DOWNSPOUT TO REMAIN

MATCH EXISTING PAVED DITCH

PR ROW

EL. = 749.00, STA. 41+81.52, 67.5' RT

PAVED DITCH TA-30

STONE RIPRAP CL A3

BOX CULVERT END SECTIONS, CULVERT NO. 1

EL. = 748.85, STA. 41+37.85, 43.4' RT

59+25.86

PR EASE

EX ROW

170+00

PR EASE

STORM SEWER UNDER CURB

STORM SEWER UNDER CURB

40+00

SEE STRUCTURE PLAN SHEET FOR BOX CULVERT DETAIL

PR ℄ CHAPEL HILL ROAD

SEE CHAPEL HILL ROAD DRAINAGE PLAN AND PROFILE

PR ℄ JOHNSBURG ROAD

180+00

PROJECT ENDS
STA 178+43

N

SCALE IN FEET 50 0 50 100

EX GRADE JOHNSBURG ROAD

PR ℄/PGL JOHNSBURG ROAD

EX FORCE MAIN

STA = 170+57.00 RIM = 760.60

STA = 170+83.00 RIM = 759.77

STA = 171+78.00 RIM = 758.77

STA = 172+50.00 RIM = 757.93

STA = 174+42.00 RIM = 752.99

STA = 175+15.00 RIM = 755.17

STA = 175+25.00 RIM = 755.97

STA = 175+79.00 RIM = 755.92

STA = 175+86.00 RIM = 756.24

STA = 176+79.00 RIM = 753.97

BOX CULVERT WEIR STRUCTURE

INV=754.90

90.0'-12" DIA. CLA TY2 @ 0.56%

40.0'-12" DIA. CLA TY2 @ 0.63%

INV=754.80

INV = 753.40

INV = 753.90

INV = 753.45

69'-12" DIA. CLA TY2 @ 1.87%

INV = 752.00

INV = 753.94

183.8'-18" DIA. CLA TY2 @ 1.20%

INV = 751.75

27.0'-12" DIA. CLA TY2 @ 0.74%

INV=751.75

54.0'-12" DIA. CLA TY2 @ 2.78%

751.20

INV = 749.55

INV=749.50

15.0'-12" DIA. CLA TY2 @ 3.00%

INV = 752.68

90.0'-24" DIA. CLA TY2 @ 0.17%

INV = 749.78

INV = 751.00

INV = 749.60

INV = 749.60

INV = 750.33

INV = 749.75

INV = 749.50

INV = 749.25

48.0'-24" DIA. CLA TY2 @ 0.37%

INV = 749.60

8.0'-18" DIA. CLA TY2 @ 3.13%

775 770 765 760 755 750 745 740 735

754.95 756.39 757.70 757.87 759.10 759.27 760.13 760.30 760.75 760.92 760.96 761.13 761.15 760.94 760.91 760.63 760.65 760.31 760.30 760.00 759.86 759.42 759.52 758.84 759.10 758.26 758.40 757.67 757.35 756.89 756.00 755.99 754.74 755.11 753.95 755.53 753.59 756.89 753.78 755.68 754.27 754.71 754.73 754.57 755.15 755.05 755.56 755.54 756.00 756.37 756.68 757.03 757.42 757.77

166+00 167+00 168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00

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NOTE BOOK | NO. | RE-SURVEYED | CADD FILE NAME

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | BY | DATE
NOTE BOOK | NO. | STRUCTURE NOTATIONS CHKD

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PROJECT CONTACT:
CLIENT:
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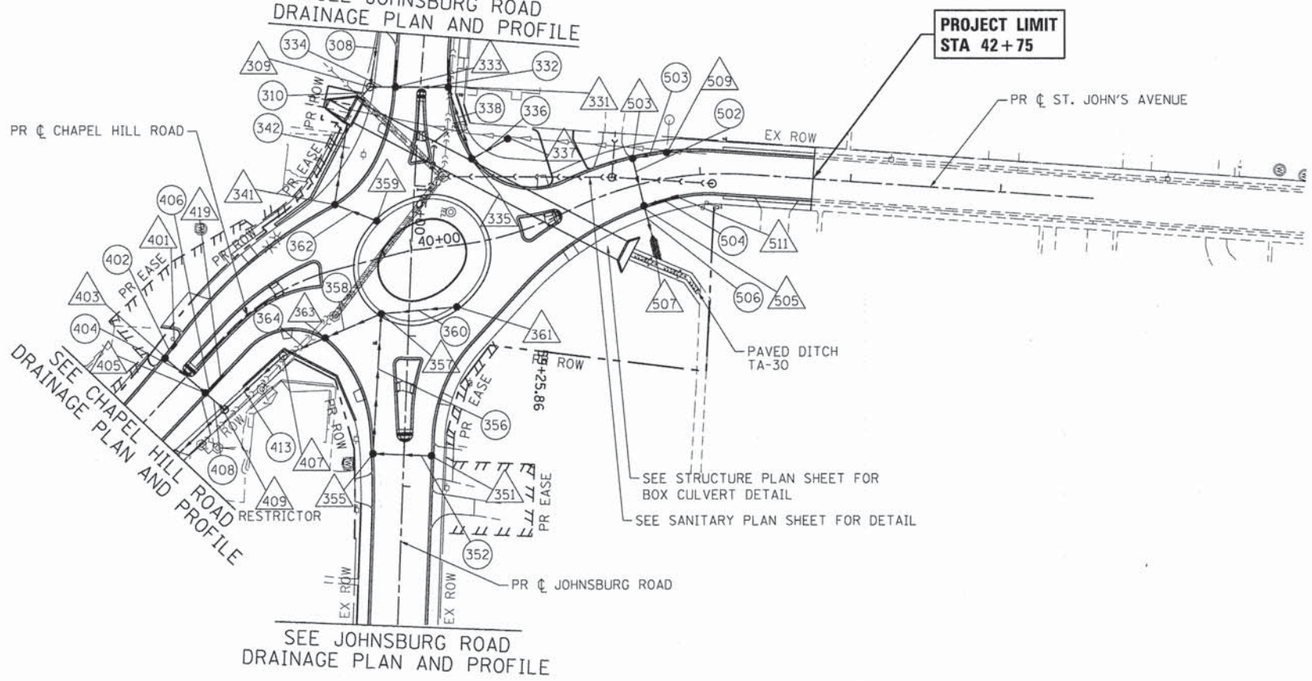
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

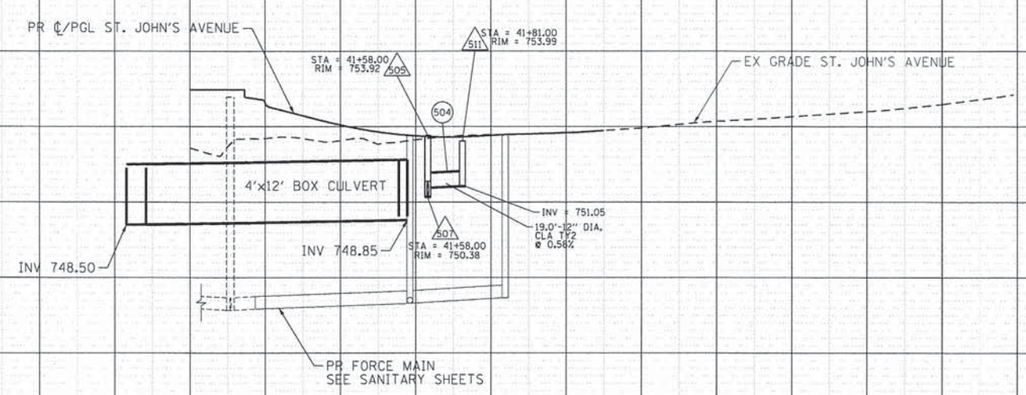
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	29
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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PROJECT CONTACT:
CLIENT:
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184-001322
HRGreen

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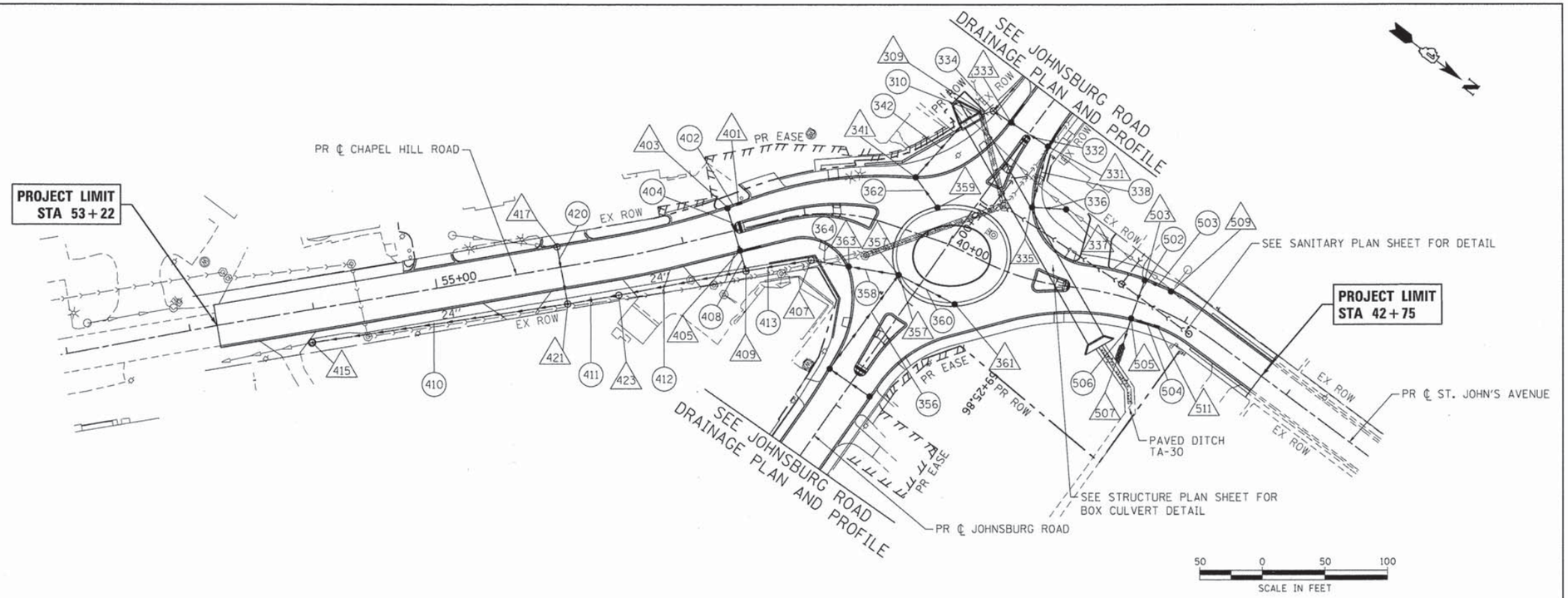
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

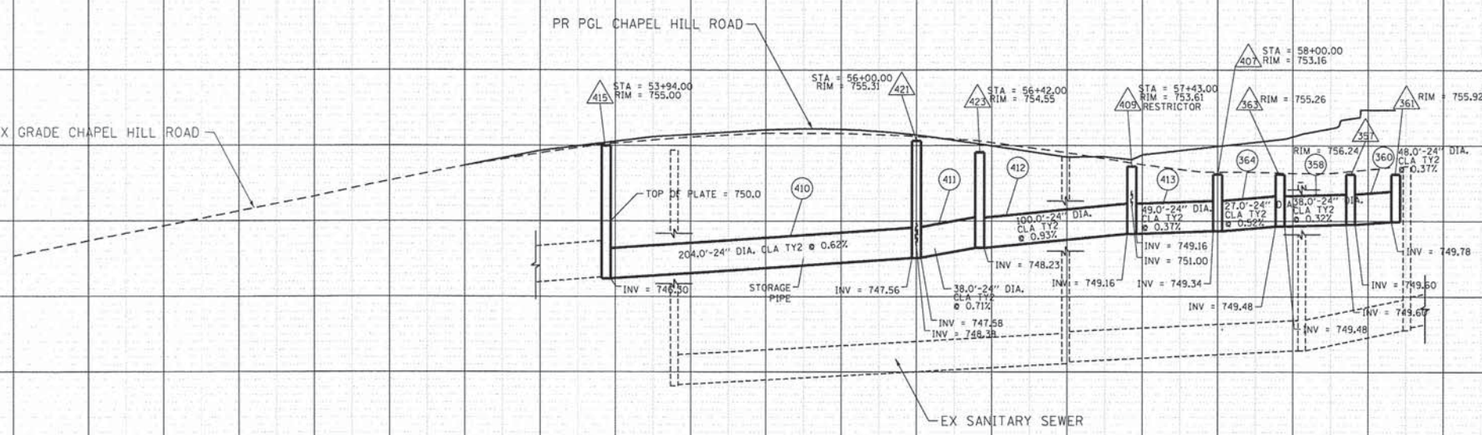
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
ST. JOHN'S AVENUE

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	30
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / NOTE BOOK / NO. / STRUCTURE NOTATNS CHKD / BY / DATE

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HRGreen.com
Illinois Professional Design Firm
184-001322

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PLOT SCALE = 1" = 50'	CHECKED - TH	REVISED -
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
CHAPEL HILL ROAD

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	31
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET (FT)	STRUCTURE TYPE					DIA. (FT.)	FRAME & GRATE	INVERTS								RESTRICTOR ELEVATION	RESTRICTOR ELEVATION	TOP PLATE ELEVATION	RIM ELEVATION
			MH TYPE A	CB TYPE A	INL TYPE A	CB TYPE C	FES			NORTH	NORTHWEST	WEST	SOUTHWEST	SOUTH	SOUTHEAST	EAST	NORTHEAST	2-YR	100-YR		
JOHNSBURG ROAD																					
301	170+57.00	-16.5			1			2	T11						754.90						760.60
303	170+83.00	16.5		1				4	T11		754.80					753.90					759.77
305	171+78.00	16.5		1				4	T11			753.40				753.15					758.77
307	172+50.00	16.5		1				5	T11	753.94		752.00				751.75					757.93
309	174+37.00	33.4	1					6	T1CL		749.55	749.55			749.50						752.99
321	172+50.00	-16.5			1			2	T11					754.59							758.59
331	174+33.15	-18.5		1				4	T11					750.04			750.04				754.98
333	174+35.61	16.6		1				4	T11	749.85			749.85								755.01
335	174+79.37	-37.1		1				4	T11		750.30		750.20								755.41
337	174+33.05	-60.0				1		2	T8						750.50						753.50
341	175+15.00	52.2		1				5	T11			749.78					751.00				755.17
351	176+79.00	-18.4				1		2	T11					750.00							754.00
355	176+79.00	20.5		1				5	T11	749.95		749.85									753.97
357	175+86.00	18.0		1				6	T11		749.60				749.60	749.60					756.24
359	175+25.00	23.9		1				4	T11				751.20								755.97
361	175+79.00	-31.6		1				6	T11					749.78							755.92
363	176+04.00	55.0		1				5	T11		749.48				749.48						755.26
BOX	174+52.55	47.3									749.25			748.50		749.50					753.00
CHAPEL HILL ROAD																		2-YR	100-YR		
401	57+51.00	-19.6			1			2	T11						750.13						754.13
403	57+41.03	-18.7		1				4	T11		750.03						750.03				754.03
405	57+43.00	16.5		1				4	T11				749.92				749.92				753.92
407	58+00.00	36.5	1					5	T10L		749.34				749.34						753.16
409	57+43.00	33.4	1					7	T1CL		749.16		749.61		749.16			749.16-12"	750.42-12"	752.80	753.61
415	53+94.00	26.0	1					5	T10L		746.30				746.30-EX						755.00
417	56+00.00	-16.5	1					5	T11•						752.90-EX		749.00				755.36
421	56+00.00	30.0	1					5	T10L		747.58		748.38		747.56						755.31
423	56+42.00	30.0	1					5	T10L		748.23				747.63						754.55
ST. JOHN'S AVENUE																					
503	41+58.00	-17.9		1				4	T11	750.45						750.45					753.85
505	41+58.00	14.6		1				4	T11	750.38		750.35				750.35					753.92
507	41+58.00	36.7					1-12"					750.30									
509	41+80.00	-17.2		1				5	T11			750.55-EX-8"		750.51							753.88
511	41+81.00	12.8			1			2	T11					750.49							753.99
		TOTALS:	7	17	4	2	0														

• T11 (WITHOUT CURBBOX-NEENAH R-3246-1)

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 01:26 PM
FILE NAME: 080622-dsch-02.dgn
PLOT DRIVER: pdf.prt
PEN TABLE: standard-trans.tbl

HRGreen

HRGreen.com
Illinois Professional Design Firm
184-001322

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PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULE OF QUANTITIES
JOHNSBURG ROAD RECONSTRUCTION

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	32
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM SEWER SCHEDULE

PIPE NO.	FROM STRUCT.	TO STRUCT.	STORM SEWER, CLASS A, TYPE 2				SLOPE (%)	TBF (CY)
			12"	15"	18"	24"		
JOHNSBURG ROAD								
302	301	303	40				0.25%	11.20
304	303	305	90				0.56%	27.00
306	305	307		69			1.67%	22.80
308	307	309			183		1.20%	131.80
310	309	BOX			8		3.13%	0.90
322	321	307	31				2.10%	4.10
332	331	333	32				0.59%	7.60
334	333	309	13				2.31%	5.00
336	337	335	24				0.83%	8.70
338	335	331	47				0.33%	11.10
342	341	BOX			54		0.52%	16.60
352	351	355	37				0.14%	4.90
356	355	357			90		0.28%	25.30
358	357	363				38	0.32%	14.60
360	361	357				48	0.37%	19.80
362	359	341	27				0.74%	4.70
364	363	407				27	0.52%	4.80
CHAPEL HILL ROAD								
402	401	403	8				1.25%	1.10
404	403	405	32				0.34%	4.30
408	405	409	13				2.38%	4.50
410	421	415				204	0.62%	288.90
411	423	421				38	0.13%	46.10
412	409	423				103	0.93%	74.50
413	407	409				49	0.37%	41.50
420	417	421		43			1.55%	33.50
ST. JOHN'S AVENUE								
502	503	505	30				0.33%	4.00
503	509	503	20				0.30%	2.70
504	511	505	19				0.58%	2.60
506	505	507	18				0.28%	2.40
		TOTALS:	481	112	335	507		827.00

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 05:29 PM
FILE NAME: d:\082622\dsch-03.dgn
PLOT DRIVER: pdf.pltr
PEN TABLE: standard-hrgn.tbl

HRGreen

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Illinois Professional Design Firm
184-001322

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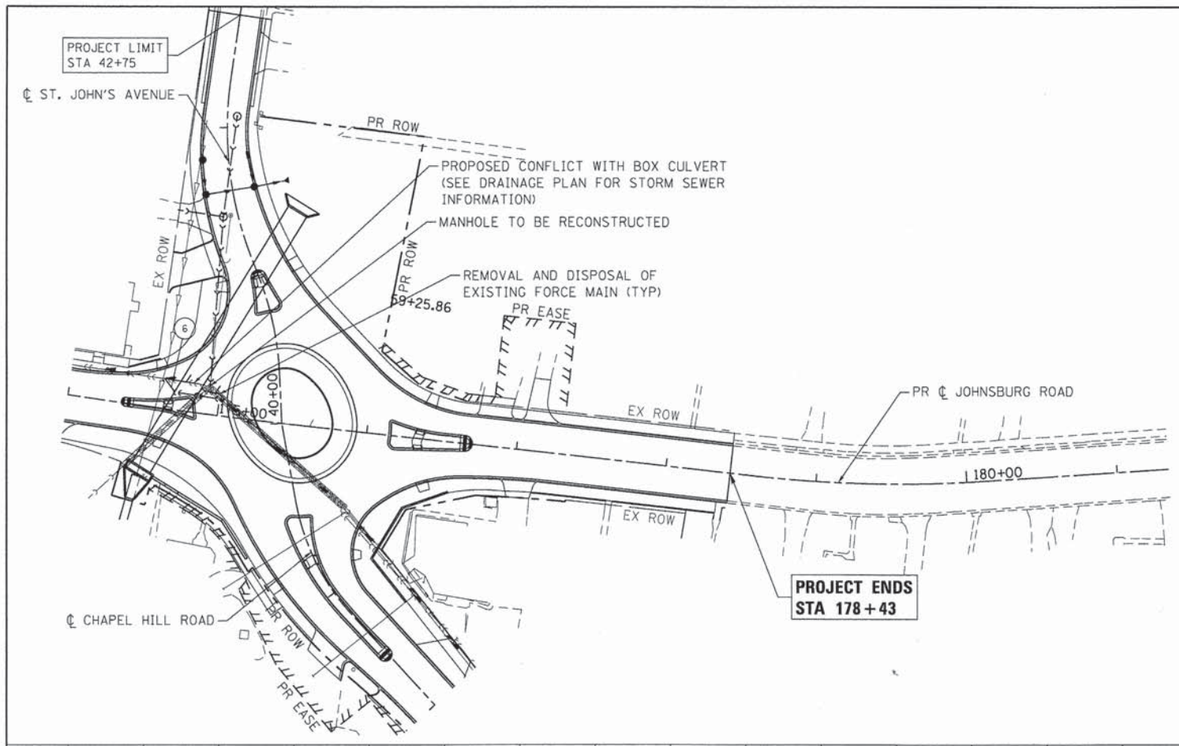
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULE OF QUANTITIES
JOHNSBURG ROAD RECONSTRUCTION

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	33
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES/SEQUENCING

1. ONCE FORCE MAIN IS COMPLETED, THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE PUBLIC WORKS DEPARTMENT TO CYCLE THE PUMP AT THE REGIONAL LIFT STATION.

2. CONTRACTOR TO COORDINATE WITH VILLAGE PUBLIC WORKS DEPARTMENT FOR TEMPORARY SHUT DOWN OF THE REGIONAL LIFT STATION TO ALLOW FOR FORCE MAIN RELOCATION. CONTRACTOR ALSO TO COORDINATE WITH VILLAGE TO PULL CHECK VALVES IN REGIONAL LIFT STATION TO DRAIN FORCE MAIN TO ALLOW FOR CONNECTION.

3. EXISTING FORCE MAIN SHALL BE REMOVED AND DISPOSED OF ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

4. ALL FITTINGS SHALL USE MEGA LUG GLANDS AND TIE RODS BETWEEN FITTINGS. CONTRACTOR TO THRUST BLOCK ALL FITTINGS. (SEE DETAIL)

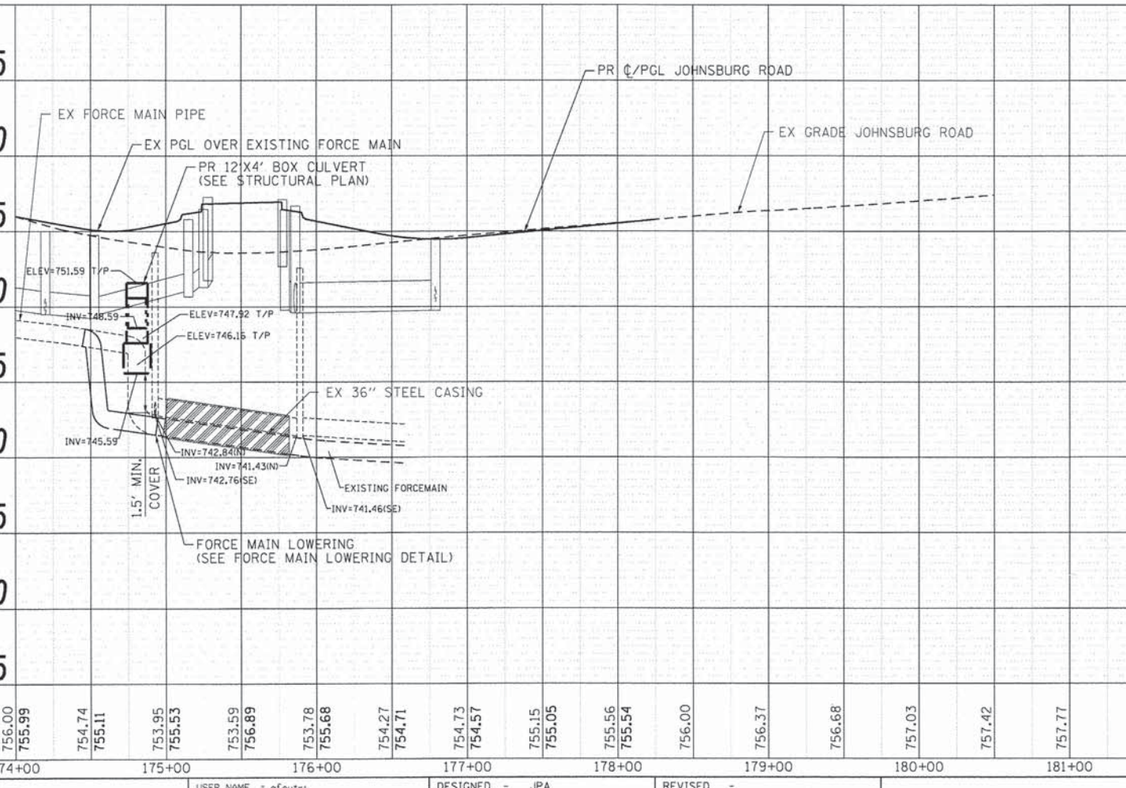
FORCE MAIN TAGS

6.46 LF FORCE MAIN LOWERING

N

50 0 50 100

SCALE IN FEET



PLAN — CORRECTED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / STR. NOTED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — CORRECTED / PLOTTED / GRADES CHECKED / STR. NOTED / STRUCTURE NO(TATING CHKD) / NOTE BOOK / NO. / BY / DATE

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 02:07 PM
FILE NAME: 080622-spp-06.dgn
PLOT DRIVER: pdf.prf
PEN TABLE: standard-trans.tbl

HRGreen.com
Illinois Professional Design Firm
184-001322

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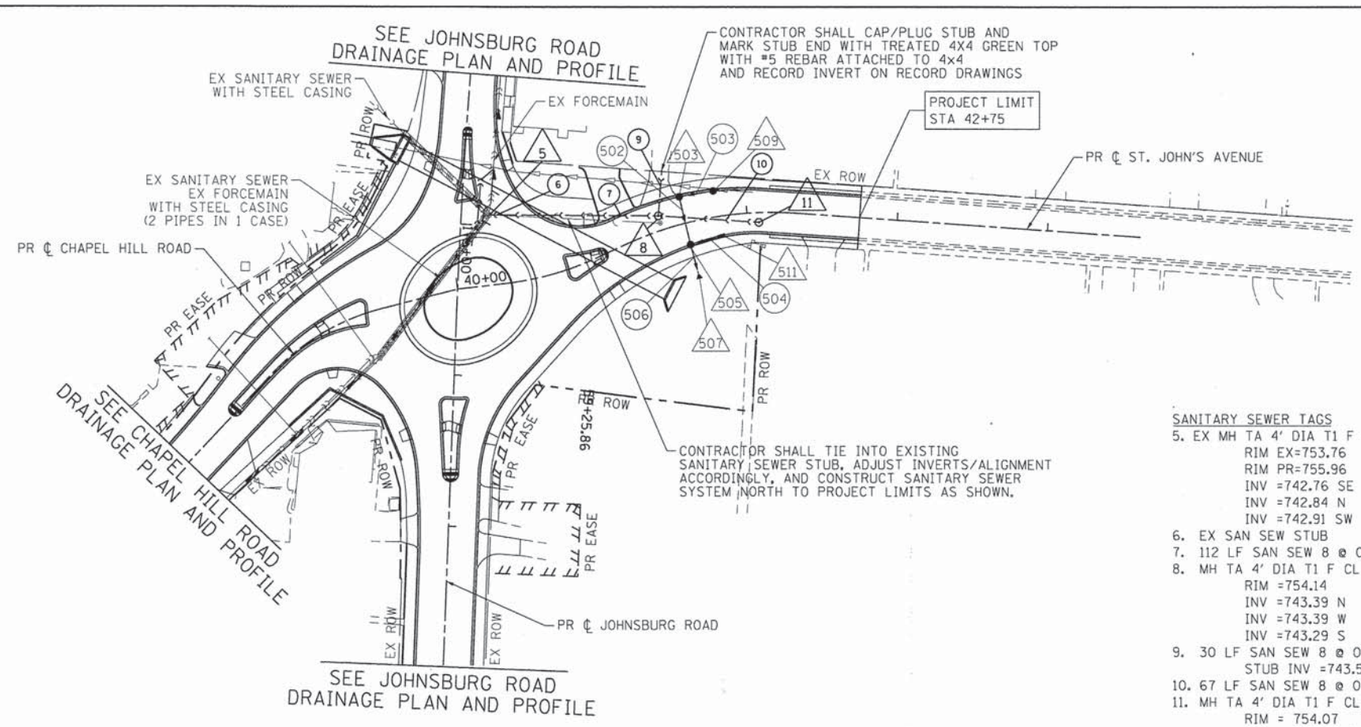
FILE NAME = 080622-spp-06.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1" = 50'	CHECKED - JV	REVISED -
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER PLAN
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	34
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



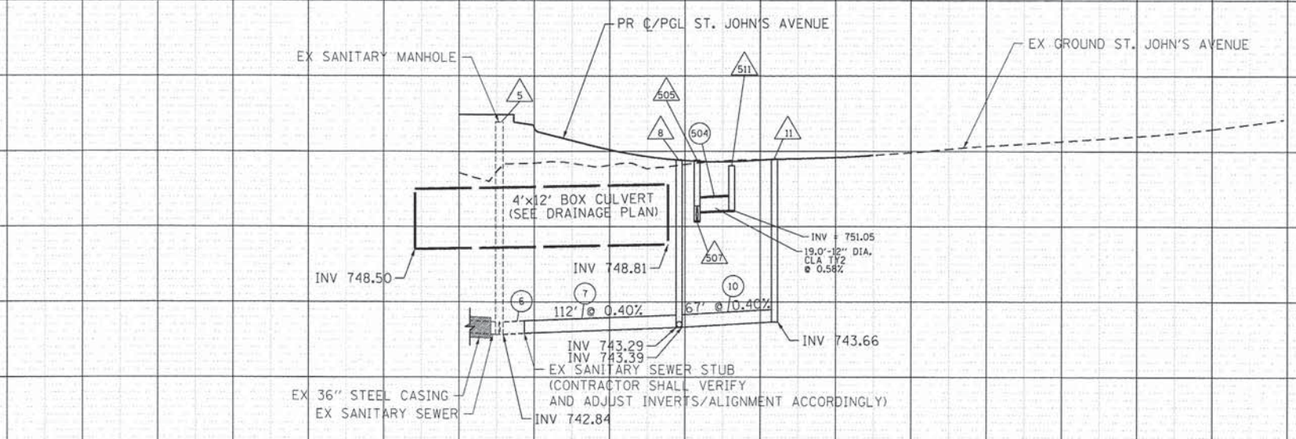
GENERAL NOTES/SEQUENCING

1. CONTRACTOR TO FOLLOW VILLAGE DETAILS FOR INSTALLATION OF GRAVITY SEWER.
2. GRAVITY SANITARY SEWER PIPE SDR-26 PER ASTM D-3034. JOINTS BELL AND SPIGOT WITH ELASTOMERIC SEALS PER ASTM D-3212.

SANITARY SEWER TAGS

5. EX MH TA 4' DIA T1 F CL
   RIM EX=753.76
   RIM PR=755.96
   INV =742.76 SE
   INV =742.84 N
   INV =742.91 SW
6. EX SAN SEW STUB
7. 112 LF SAN SEW 8 @ 0.40%
8. MH TA 4' DIA T1 F CL
   RIM =754.14
   INV =743.39 N
   INV =743.39 W
   INV =743.29 S
9. 30 LF SAN SEW 8 @ 0.40%
   STUB INV =743.50
10. 67 LF SAN SEW 8 @ 0.40%
11. MH TA 4' DIA T1 F CL
    RIM = 754.07
    INV = 743.66 S

50 0 50 100
SCALE IN FEET



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / BEAM & STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BEAM & STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 2:02:16 PM
FILE NAME: 080622-spp-09.dgn
PLOT DRIVER: pe1241
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm
184-001322

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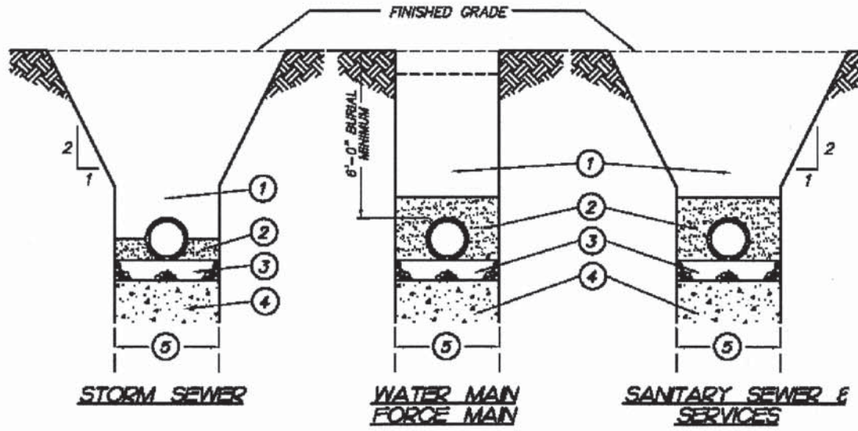
FILE NAME = 080622-spp-09.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = 1" = 50'	CHECKED - JV	REVISED -
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER PLAN
ST. JOHN'S AVENUE

SCALE: 1" = 50' | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	35
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



(1) Trench backfill under pavement, curb and gutter shall be compacted granular material, CA-6 and within 2 feet of any proposed curb and gutter or sidewalk. Mechanically compacted backfill of excavated materials in other locations if approved by the Village Engineer. Refer to trench backfill special provisions for compactionrequirements.

(2) SANITARY SEWER, (ESVCP, DIP) WATER MAIN, FORCE MAIN

COMPACTED GRANULAR MATERIAL CA-8 TO 4" ABOVE TOP OF PIPE.

(2) SANITARY SEWER, (PVC)

COMPACTED GRANULAR MATERIAL CA-6 TO 12" ABOVE TOP OF PIPE.(ALSO SEE NOTE #1 BELOW)

(2) STORM SEWER

COMPACTED GRANULAR MATERIAL CA-6 TO SPRING LINE OF PIPE.

(3) 4" COMPACTED GRANULAR BEDDING, CA-6 GRADATION.

(4) UNSUITABLE MATERIAL TO BE REMOVED WHERE DIRECTED BY ENGINEER AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED.

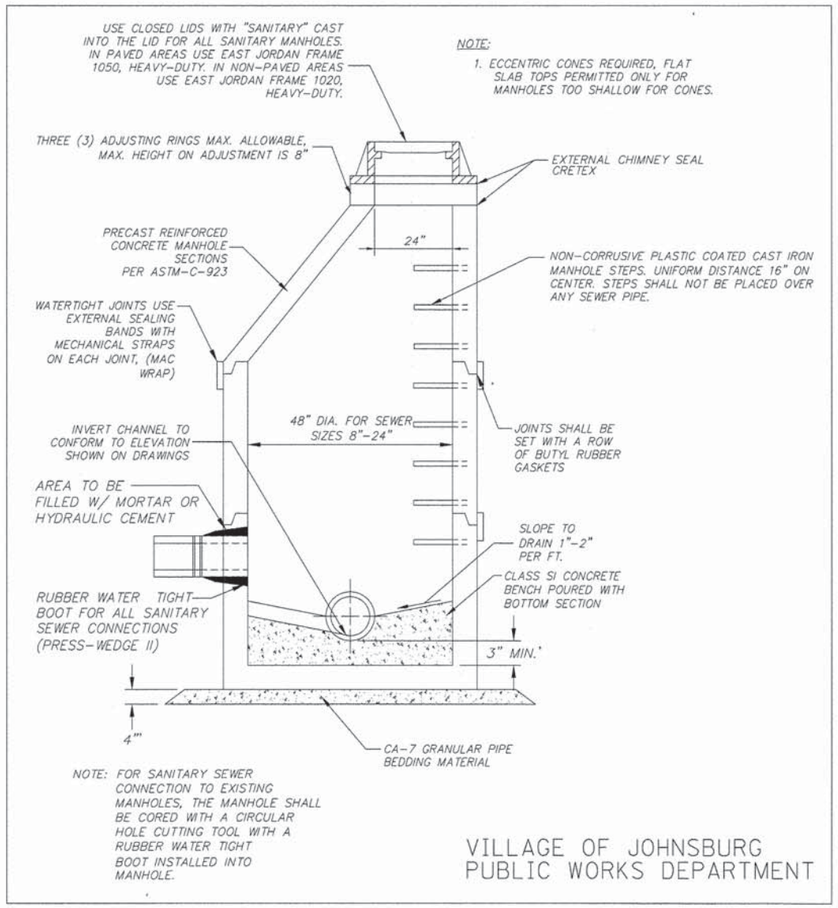
(5) TRENCH WIDTH- PIPE O.D. +12" MINIMUM
PIPE O.D. + 18" MAXIMUM

NOTES

1. PVC PIPE CONFORMING TO THE SDR SPECIFIED IN THE PLANS SHALL BE INSTALLED TO THE LATEST REVISED SPECIFICATION REQUIREMENTS OF THE ASTM D-2321 USING EITHER COMPACTED CLASS I OR CLASS II GRANULAR MATERIALS FOR BEDDING, HAUNCHING AND INITIAL BACKFILL OF 12 INCHES OVER THE TOP OF PIPE TO PROVIDE THE NECESSARY SUPPORT FOR THE PIPE SO THAT THE MAXIMUM DEFLECTION DOES NOT EXCEED 5% OF THE PIPE'S ORIGINAL INTERNAL DIAMETER.

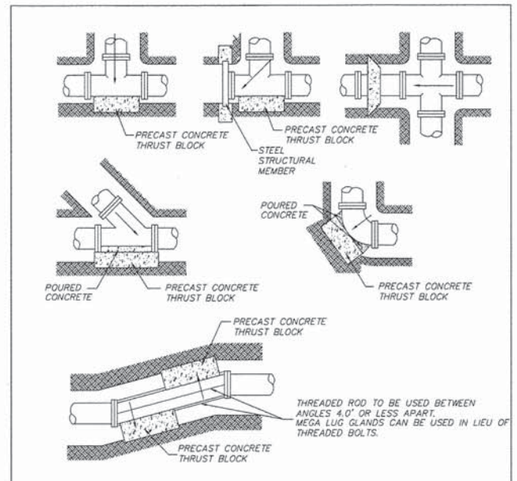
2. ALL CA-6 TO BE IDOT APPROVED OR MEET IDOT SPECIFICATIONS.

VILLAGE OF JOHNSBURG
PUBLIC WORKS DEPARTMENT



VILLAGE OF JOHNSBURG
PUBLIC WORKS DEPARTMENT

SANITARY MANHOLE DETAIL



BEARING AREA (SQ. FT.)

PIPE SIZE	TEE/PLUG	90°	45°	22-1/2°	11-1/4°
6	4	2	1	1	1
8	6	4	3	1	1
10	7	5	3	2	1
12	8	6	4	3	2
14	12	9	6	4	3
16	15	12	7	5	3
18	18	15	9	5	4
24	40	30	15	10	5

ALL BLOCKING MUST BEAR ON UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN AND INCLUDING 11-1/4° SHALL HAVE THRUST BLOCKING.

VILLAGE OF JOHNSBURG
PUBLIC WORKS DEPARTMENT

THRUST BLOCK INSTALLATION DETAIL

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 12:26:30 PM
FILE NAME: 080622-spp-details-01.dgn
PLOT DRIVER: pdf.pat
PEN TABLE: standard-trans.tbl

HRGreen
HRGreen.com
Illinois Professional Design Firm # 184-001322

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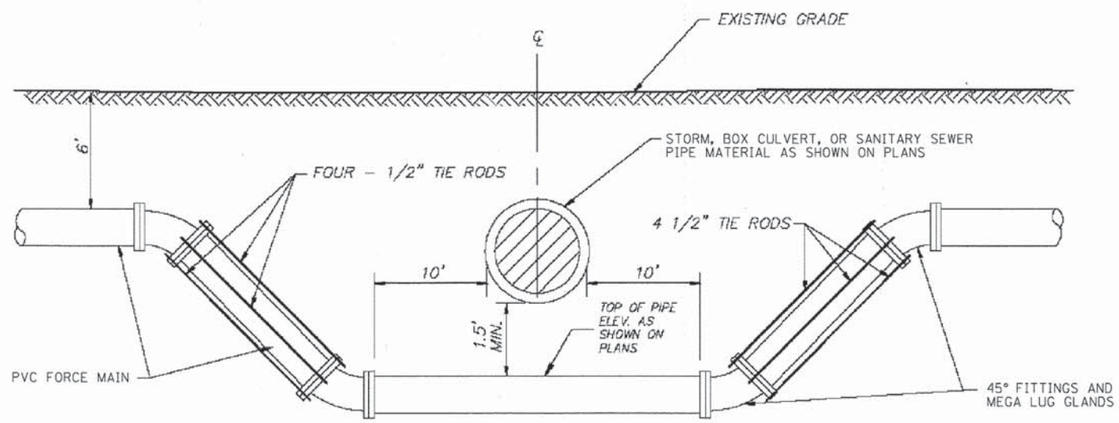
PLOT SCALE = N.T.S.	CHECKED - JV	REVISED -	
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER PLAN
SANITARY MANHOLE, THRUST BLOCK AND TRENCH BACKFILL DETAILS

SCALE: N.T.S. | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	36
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FORCE MAIN LOWERING DETAIL

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 02:24 PM
FILE NAME: 080622-spp-details-02.dgn
PLOT DRIVER: pdf.pltt
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm # 184-001322
HRGreen

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FILE NAME = 080622-spp-details-02.dgn	DRAWN - JPA	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JV	REVISED -
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER PLAN
FORCE MAIN LOWERING DETAIL

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	37
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0036T.E.-A 1HK0036T.E.-B	McHenry State Bank as Trustee under Trust Agreement dated March 12, 1996 known as Trust No. 13143	4.180	N/A	N/A	4.180	A=0.007 B=0.043	324 N/A	Grading Construction Purposes	09-13-253-007 09-13-253-008 09-13-253-009 09-13-253-010	
1HK0037T.E.	Edward G. Schulien as Trustee under the Declaration of Trust dated September 16, 1993 known as the Edward G. Schulien Living Trust	0.267	N/A	N/A	0.267	0.005	209	Construction Purposes	09-13-252-021	

Existing & Proposed
℄ Pavement
Johnsburg Road
Curve #3

P.I. = Sta. 171+76.08
Δ = 10°05'24"
R = 1641.91'
T = 144.95'
L = 289.15'
E = 6.39'
P.C. = Sta. 170+31.13
P.T. = Sta. 173+20.28

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0036	100416	January 26, 1932
1HK0036	100418	January 26, 1932

CONTRACT 63515
SHEET 38 OF 120

LEGEND

SECTION CORNER (9|10 / 16|15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- ℄ PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

0 30' 60'
SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROJND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE, AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
167+14.49	29.24' Rt.	2,081,076.064	1,008,141.364
167+22.41	6.00' Lt.	2,081,112.151	1,008,142.921
168+72.89	6.11' Lt.	2,081,138.924	1,008,290.998
168+80.13	29.21' Rt.	2,081,105.448	1,008,304.378
168+80.13	35.01' Rt.	2,081,099.743	1,008,305.405
169+12.76	3.31' Lt.	2,081,143.240	1,008,330.728
169+17.15	30.80' Lt.	2,081,171.066	1,008,330.180

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 164+00 TO STATION 173+00
SCALE: 1"=30'

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ASSESSORS PLAT OF JOHNSBURG OR OF SEC. 13, T. 45 N. OF R. 8 E. OF THE 3RD P.M.
Recorded August 27, 1868 in Book 43 of Deeds, Page 300

PLAT NO. 3 McHENRY COUNTY CLERK'S PLAT OF SEC. 13, T. 45 N., R. 8 E. of 3RD P.M.
Recorded May 6, 1902 as Document No. 14079

Detail "G"
Scale: 1"=20'

SEE SHEET 16 — SEE SHEET 18

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05-00314-00-WR | COUNTY McHENRY | JOB NO. R-91-005-06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

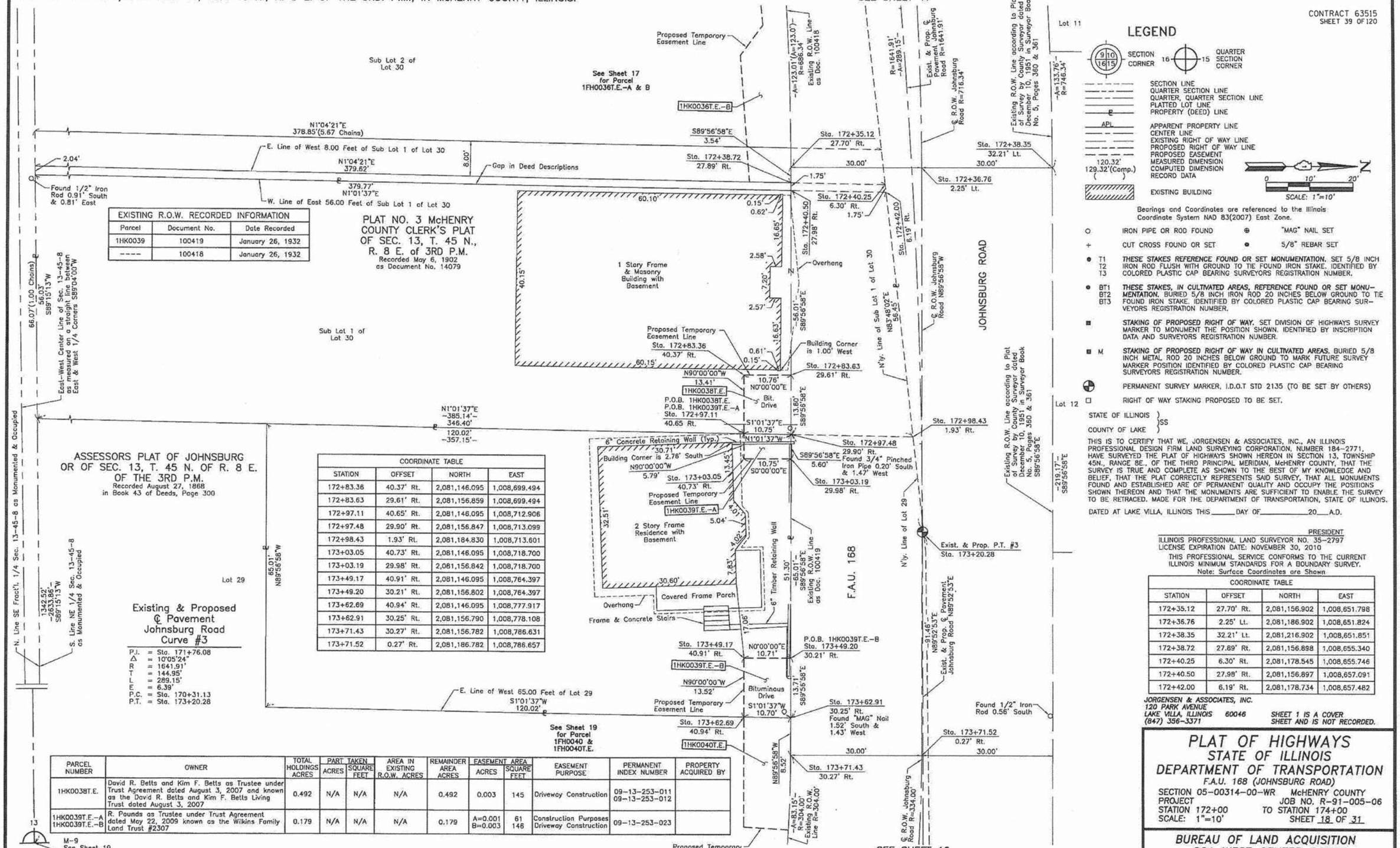
REVISION DATE | REVISION | MADE BY

10/24/2013 02:02:29 PM
080622-poh-18.dgn
pdf.pit
standard-trans.tbl

PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

SEE SHEET 17

CONTRACT 63515
SHEET 39 OF 120



EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0039	100419	January 26, 1932
----	100418	January 26, 1932

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
172+83.36	40.37' Rt.	2,081,146.095	1,008,699.494
172+83.63	29.61' Rt.	2,081,156.859	1,008,699.494
172+97.11	40.65' Rt.	2,081,146.095	1,008,712.906
172+97.48	29.90' Rt.	2,081,156.847	1,008,713.099
172+98.43	1.93' Rt.	2,081,184.830	1,008,713.601
173+03.05	40.73' Rt.	2,081,146.095	1,008,718.700
173+03.19	29.98' Rt.	2,081,156.842	1,008,718.700
173+49.17	40.91' Rt.	2,081,146.095	1,008,764.397
173+49.20	30.21' Rt.	2,081,156.802	1,008,764.397
173+62.69	40.94' Rt.	2,081,146.095	1,008,777.917
173+62.91	30.25' Rt.	2,081,156.790	1,008,778.108
173+71.43	30.27' Rt.	2,081,156.782	1,008,786.631
173+71.52	0.27' Rt.	2,081,186.782	1,008,786.657

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0038T.E.	David R. Betts and Kim F. Betts as Trustee under Trust Agreement dated August 3, 2007 and known as the David R. Betts and Kim F. Betts Living Trust dated August 3, 2007	0.492	N/A	N/A	N/A	0.492	0.003	145	Driveway Construction	09-13-253-011 09-13-253-012	
1HK0039T.E.-A 1HK0039T.E.-B	R. Pounds as Trustee under Trust Agreement dated May 22, 2009 known as the Wilkins Family Land Trust #2307	0.179	N/A	N/A	N/A	0.179	A=0.001 B=0.003	61 146	Construction Purposes Driveway Construction	09-13-253-023	

LEGEND

- SECTION CORNER (9 10 16 15)
- QUARTER SECTION CORNER (16 / 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

0 10' 20'
SCALE: 1"=10'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 *THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.* SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 *THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.* BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ *STAKING OF PROPOSED RIGHT OF WAY.* SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M *STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.* BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20____ A.D.

_____
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
172+35.12	27.70' Rt.	2,081,156.902	1,008,651.798
172+36.76	2.25' Lt.	2,081,186.902	1,008,651.824
172+38.35	32.21' Lt.	2,081,216.902	1,008,651.851
172+38.72	27.89' Rt.	2,081,156.898	1,008,655.340
172+40.25	6.30' Rt.	2,081,178.545	1,008,655.746
172+40.50	27.98' Rt.	2,081,156.897	1,008,657.091
172+42.00	6.19' Rt.	2,081,178.734	1,008,657.482

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 172+00 TO STATION 174+00
SCALE: 1"=10' SHEET 18 OF 31

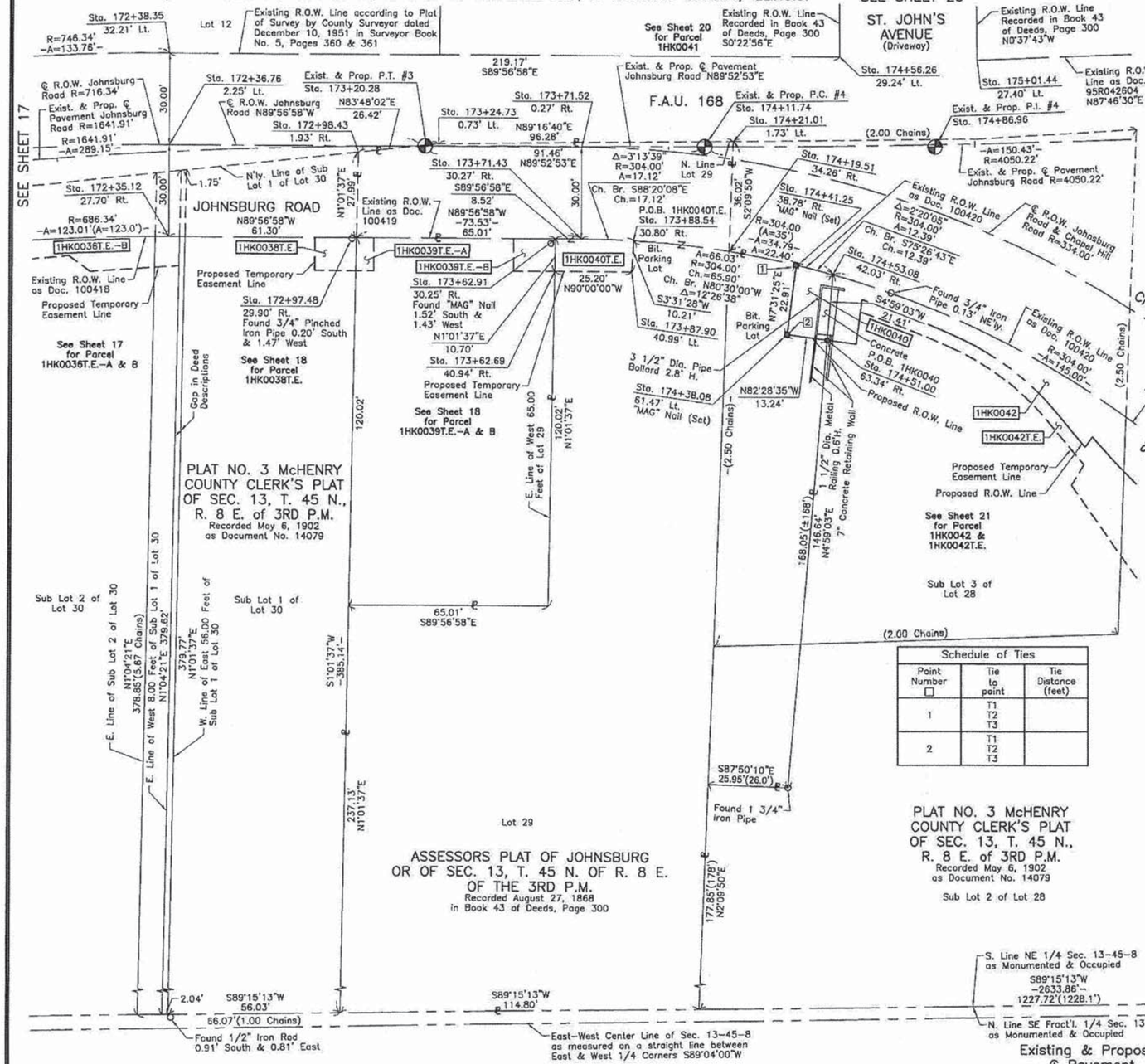
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05-00314-00-WR | COUNTY McHENRY | JOB NO. R-91-005-06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

COMPANY NAME: McHENRY
PROJECT CONTACT: 05-00314-03-WR
DATE PLOTTED: 10/24/2013 02:35 PM
FILE NAME: 080622-poh-19.dgn
PLOT DRIVER: pdf.pltt
PEN TABLE: standard-trans.tbl

PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
173+62.91	30.25' Rt.	2,081,156.790	1,008,778.108
173+71.43	30.27' Rt.	2,081,156.782	1,008,786.631
173+71.52	0.27' Rt.	2,081,186.782	1,008,786.657
173+87.90	40.99' Rt.	2,081,146.095	1,008,803.118
173+88.54	30.80' Rt.	2,081,156.285	1,008,803.745
174+19.51	34.26' Rt.	2,081,152.902	1,008,834.780
174+21.01	1.73' Lt.	2,081,188.897	1,008,836.140
174+38.08	61.47' Rt.	2,081,125.810	1,008,853.749
174+41.25	38.78' Rt.	2,081,148.522	1,008,856.748
174+51.00	63.34' Rt.	2,081,124.076	1,008,866.877
174+53.08	42.03' Rt.	2,081,145.409	1,008,868.737
174+56.26	29.24' Lt.	2,081,216.708	1,008,871.019
175+01.44	27.40' Lt.	2,081,215.705	1,008,915.905

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0040	100419	January 26, 1932
1FH0040	100420	January 26, 1932
-----	Book 43 of Deeds, Page 300	August 27, 1868
-----	100419	January 26, 1932
-----	100418	January 26, 1932
-----	100420	January 26, 1932
-----	95R042604	October 4, 1995

Schedule of Ties		
Point Number ☐	Tie to point	Tie Distance (feet)
1	T1 T2 T3	
2	T1 T2 T3	

M-9
"Monument Record"
East 1/4 Corner of Section 13-45-8
N.2,080,817.237-E.1,010,049.108
Recorded
Document No.

Existing & Proposed ℄ Pavement Johnsburg Road Curve #3
P.I. = Sta. 171+76.08
Δ = 10°05'24"
R = 1641.91'
T = 144.95'
L = 289.15'
E = 6.39'
P.C. = Sta. 170+31.13
P.T. = Sta. 173+20.28

Existing & Proposed ℄ Pavement Johnsburg Road Curve #4
P.I. = Sta. 174+86.96
Δ = 2°07'41"
R = 4050.22'
T = 75.22'
L = 150.43'
E = 0.70'
P.C. = Sta. 174+11.74
P.T. = Sta. 175+62.17

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0040 1HK0040T.E.	Harris, N.A. successor to Harris Trust & Savings Bank as successor to State Bank of Woodstock as Trustee under Trust Agreement dated August 31, 1989 known as Trust No. 4591	0.994	0.006	283	N/A	0.988	0.006	269	Driveway Construction	09-13-253-014 09-13-253-015 09-13-253-024	

CONTRACT 63515
SHEET 40 OF 120

LEGEND

SECTION CORNER (9 10 16 15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

0 20' 40'
SCALE: 1"=20'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 *THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.* SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 *THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.* BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ *STAKING OF PROPOSED RIGHT OF WAY.* SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

_____
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
172+35.12	27.70' Rt.	2,081,156.902	1,008,651.798
172+36.76	2.25' Lt.	2,081,186.902	1,008,651.824
172+38.35	32.21' Lt.	2,081,216.902	1,008,651.851
172+97.48	29.90' Rt.	2,081,156.847	1,008,713.099
172+98.43	1.93' Rt.	2,081,184.830	1,008,713.601
173+24.73	0.73' Lt.	2,081,187.683	1,008,739.869
173+62.69	40.94' Rt.	2,081,146.095	1,008,777.917

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 172+00 TO STATION 175+00
SCALE: 1"=20' SHEET 19 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE July 20, 2010 — REVISION Eliminated building on Parcel 1HK0040 — MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) — SECTION 05-00314-00-WR — COUNTY McHENRY — JOB NO. R-91-005-06 — RECORDING: RECORDED ON — AS DOCUMENT NO.

IDOT COMPANY NAME:
PROJECT CONTACT:
CHECK:
DATE PLOTTED: 10/24/2013 02:06:46 PM
FILE NAME: 080822-pah-20.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl
IDOT
05-00314-03-WR
080822-pah-20.dgn

PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

CONTRACT 63515
SHEET 41 OF 120

Proposed ℄ Pavement Chapel Hill Road Curve #2

P.I. = Sta. 58+25.06
Δ = 32°13'52"
R = 150.01'
T = 43.34'
L = 84.39'
E = 6.14'
P.C. = Sta. 57+81.72
P.T. = Sta. 58+66.11

Proposed ℄ Pavement St. John's Avenue Curve #3

P.I. = Sta. 40+64.91
Δ = 18°20'08"
R = 200.01'
T = 32.28'
L = 64.01'
E = 2.59'
P.C. = Sta. 40+32.63
P.T. = Sta. 40+96.64

Proposed ℄ Pavement St. John's Avenue Curve #4

P.I. = Sta. 41+74.79
Δ = 29°03'58"
R = 232.30'
T = 60.22'
L = 117.85'
E = 7.68'
P.C. = Sta. 41+14.57
P.T. = Sta. 42+32.42

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0041	Book 43 of Deeds, Page 300	August 27, 1868
1HK0043	Book 43 of Deeds, Page 300	August 27, 1868
1HK0043	95R042604	October 4, 1995
-----	100419	January 26, 1932
-----	100420	January 26, 1932
-----	100421	January 26, 1932
-----	95R031118	August 1, 1995
-----	95R034913	August 23, 1995

PLAT NO. 3 McHENRY COUNTY CLERK'S PLAT OF SEC. 13, T. 45 N., R. 8 E. of 3RD P.M.
Recorded May 6, 1902 as Document No. 14079

PLAT NO. 3 McHENRY COUNTY CLERK'S PLAT OF SEC. 13, T. 45 N., R. 8 E. of 3RD P.M.
Recorded May 6, 1902 as Document No. 14079

ASSESSORS PLAT OF JOHNSBURG OR OF SEC. 13, T. 45 N. OF R. 8 E. OF THE 3RD P.M.
Recorded August 27, 1868 in Book 43 of Deeds, Page 300

Existing & Proposed ℄ Pavement Johnsburg Road Curve #4

P.I. = Sta. 174+86.96
Δ = 2°07'41"
R = 4050.22'
T = 75.22'
L = 150.43'
E = 0.70'
P.C. = Sta. 174+11.74
P.T. = Sta. 175+62.17

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
173+71.52	0.27' Rt.	2,081,186.782	1,008,786.657
174+44.08	29.39' Lt.	2,081,216.719	1,008,858.925
174+56.26	29.24' Lt.	2,081,216.708	1,008,871.019
174+59.30	34.27' Lt.	2,081,221.739	1,008,870.985
175+01.44	27.40' Lt.	2,081,215.705	1,008,915.905
176+02.11	27.81' Lt.	2,081,219.598	1,009,016.084
176+10.72	29.99' Rt.	2,081,162.180	1,009,026.960

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
41+46.90	39.87' Lt.	2,081,311.471	1,008,870.387
41+86.95	130.60' Rt.	2,081,390.793	1,009,023.974
42+08.11	21.41' Rt.	2,081,387.722	1,008,914.017
58+27.35	39.60' Rt.	2,081,127.370	1,009,025.645
173+64.00	29.75' Lt.	2,081,216.789	1,008,779.073
173+71.43	30.27' Rt.	2,081,156.782	1,008,786.631

Schedule of Ties		
Point Number ☐	Tie to point	Tie Distance (feet)
1	T1	10.59
	T2	14.94
	T3	19.17
2	T1	17.53
	T2	14.24
	T3	14.28
3	T1	15.64
	T2	14.47
	T3	17.65
4	T1	14.78
	T2	8.49
	T3	13.49

T1 to Point Nos. 1 & 2 is a Cross Cut (Set) in Concrete Walk.
T2 & T3 to Point Nos. 1 & 2 are "MAG" Nails (Set) in Bituminous Parking Lot.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0041	Robert Corcoran and Bessie Joy Kaufhold, his wife, in Joint Tenancy	0.195	0.001	30	N/A	0.194	N/A	N/A	09-13-252-033	
1HK0043	Don A. Peeples and Josephine Peeples as to an undivided 75% interest and Christopher C. Schuer and Jennifer L. Schuer as to an undivided 25% interest	0.414	0.414	N/A	N/A	0.000	N/A	N/A	09-13-276-040	

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 — *THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.* SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — *THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.* BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ *STAKING OF PROPOSED RIGHT OF WAY.* SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — *STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.* BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

SCALE: 1"=20'

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 40+00 TO STATION 42+32.42 (ST. JOHNS AVE.)
STATION 58+00 TO STATION 59+18.41 (CHAPEL HILL RD.)
STATION 173+00 TO STATION 177+00 (JOHNSBURG RD.)
SCALE: 1"=20' SHEET 20 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05-00314-00-WR | COUNTY McHENRY | JOB NO. R-91-005-06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

COMPANY NAME: IDOT
PROJECT CONTACT: McHENRY
CLIENT: 05-00314-03-WR
FILE NAME: 080622-pah-21.dgn
PLOT DRIVER: 080622-pah-21.dgn
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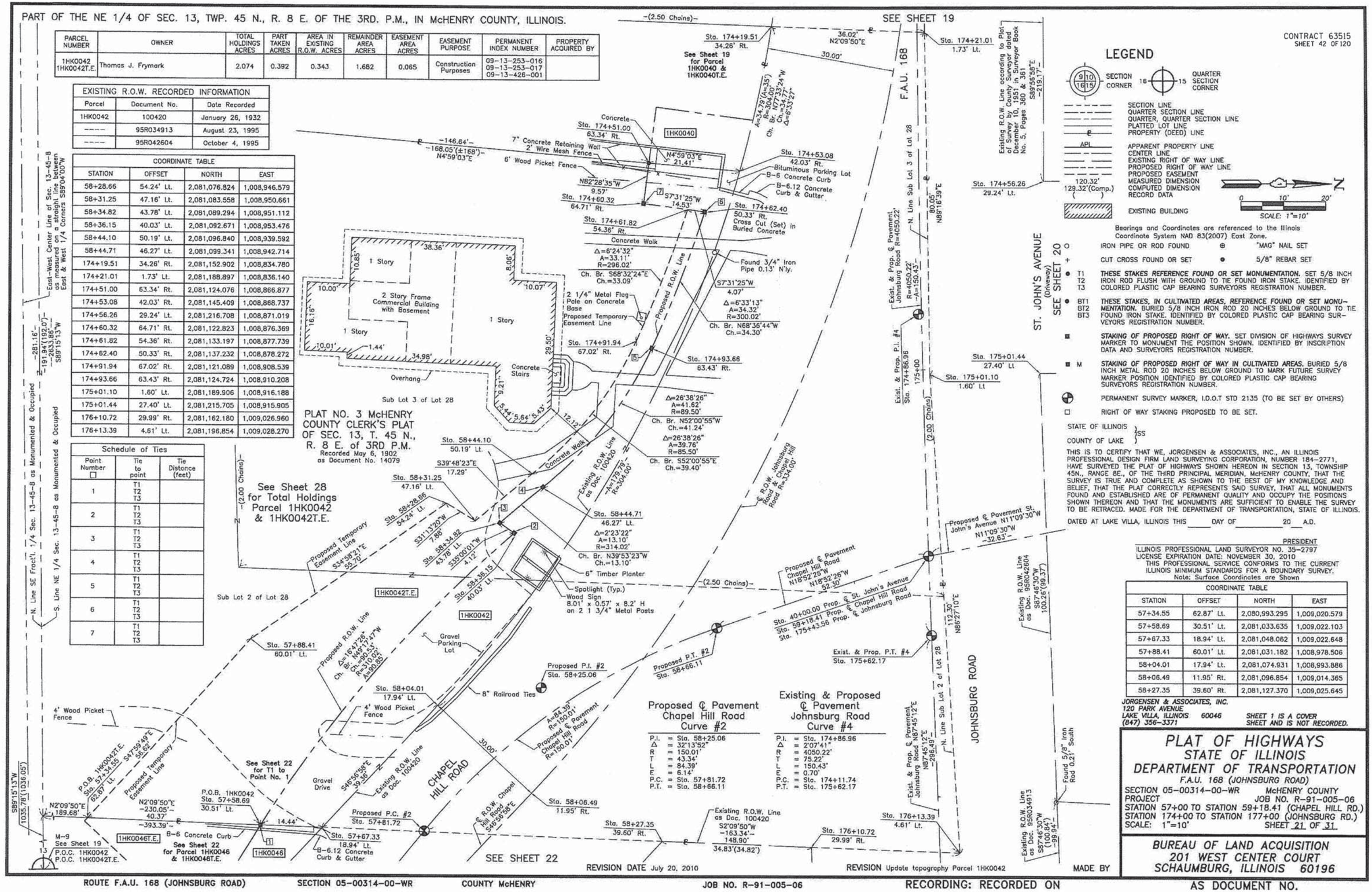
PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0042 1HK0042T.E.	Thomas J. Frymark	2.074	0.392	0.343	1.682	0.065	Construction Purposes	09-13-253-016 09-13-253-017 09-13-426-001	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0042	100420	January 26, 1932
-----	95R034913	August 23, 1995
-----	95R042604	October 4, 1995

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
58+28.66	54.24' Lt.	2,081,076.824	1,008,946.579
58+31.25	47.16' Lt.	2,081,083.558	1,008,950.661
58+34.82	43.78' Lt.	2,081,089.294	1,008,951.112
58+36.15	40.03' Lt.	2,081,092.671	1,008,953.476
58+44.10	50.19' Lt.	2,081,096.840	1,008,939.592
58+44.71	46.27' Lt.	2,081,099.341	1,008,942.714
174+19.51	34.26' Rt.	2,081,152.902	1,008,834.780
174+21.01	1.73' Lt.	2,081,188.897	1,008,836.140
174+51.00	63.34' Rt.	2,081,124.076	1,008,866.877
174+53.08	42.03' Rt.	2,081,145.409	1,008,868.737
174+56.26	29.24' Lt.	2,081,216.708	1,008,871.019
174+60.32	64.71' Rt.	2,081,122.823	1,008,876.369
174+61.82	54.36' Rt.	2,081,133.197	1,008,877.739
174+62.40	50.33' Rt.	2,081,137.232	1,008,878.272
174+91.94	67.02' Rt.	2,081,121.089	1,008,908.539
174+93.66	63.43' Rt.	2,081,124.724	1,008,910.208
175+01.10	1.60' Lt.	2,081,189.906	1,008,916.188
175+01.44	27.40' Lt.	2,081,215.705	1,008,915.905
176+10.72	29.99' Rt.	2,081,162.180	1,009,026.960
176+13.39	4.61' Lt.	2,081,196.854	1,009,028.270

Schedule of Ties		
Point Number ☐	Tie to point	Tie Distance (feet)
1	T1 T2 T3	
2	T1 T2 T3	
3	T1 T2 T3	
4	T1 T2 T3	
5	T1 T2 T3	
6	T1 T2 T3	
7	T1 T2 T3	



CONTRACT 63515
SHEET 42 OF 120

STATE OF ILLINOIS }SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS ____ DAY OF ____ 20__ A.D.

PRESIDENT

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
57+34.55	62.87' Lt.	2,080,993.295	1,009,020.579
57+58.69	30.51' Lt.	2,081,033.635	1,009,022.103
57+67.33	18.94' Lt.	2,081,048.062	1,009,022.648
57+88.41	60.01' Lt.	2,081,031.182	1,008,978.506
58+04.01	17.94' Lt.	2,081,074.931	1,008,993.886
58+06.49	11.95' Rt.	2,081,096.854	1,009,014.365
58+27.35	39.60' Rt.	2,081,127.370	1,009,025.645

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 57+00 TO STATION 59+18.41 (CHAPEL HILL RD.)
STATION 174+00 TO STATION 177+00 (JOHNSBURG RD.)
SCALE: 1"=10' SHEET 21 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

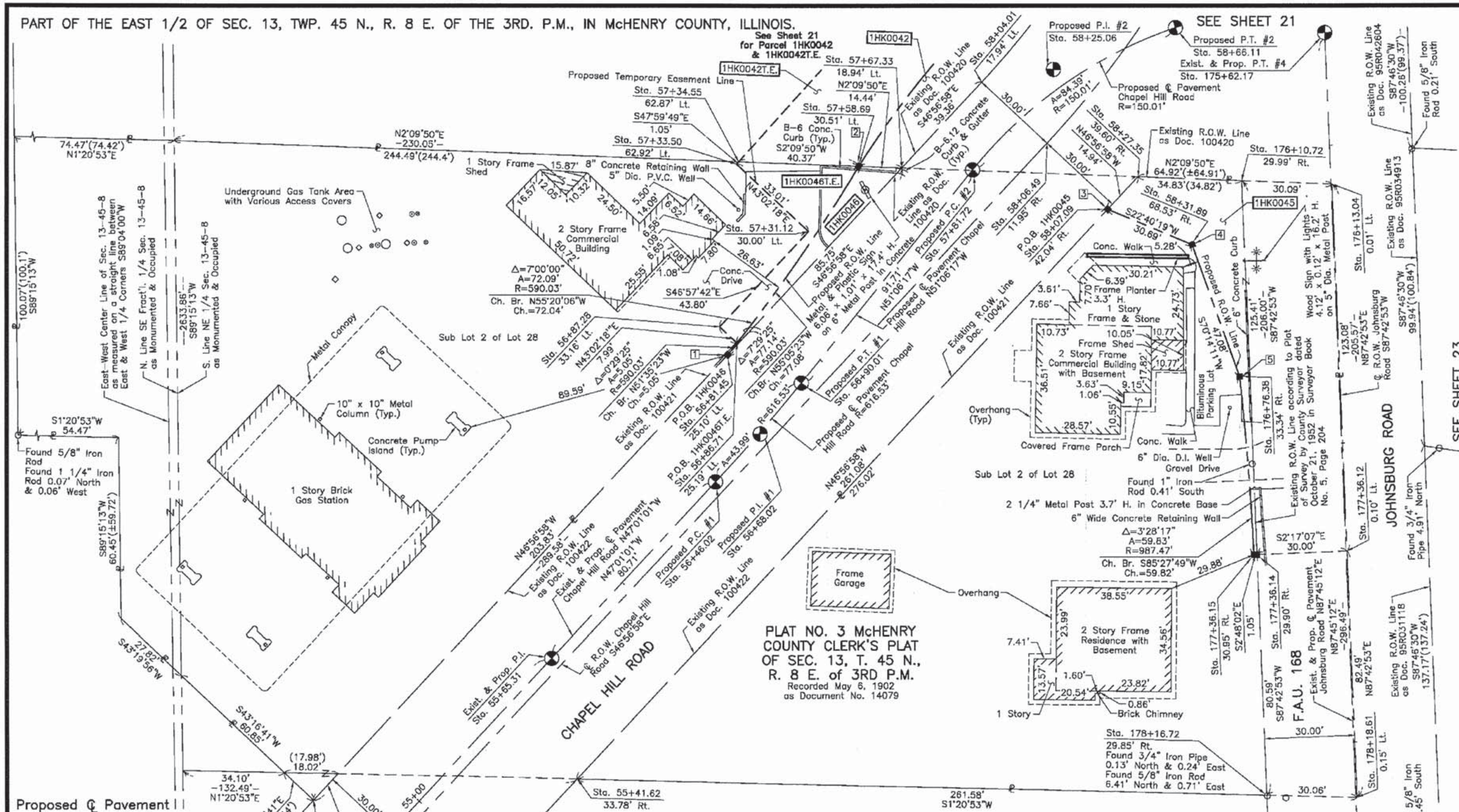
REVISION DATE July 20, 2010
REVISION Update topography Parcel 1HK0042
MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) SECTION 05-00314-00-WR COUNTY McHENRY JOB NO. R-91-005-06 RECORDING: RECORDED ON AS DOCUMENT NO.

DGN FILE: 05-00314-03-str
080622-pam-22.dgn
COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 03:07 PM
FILE NAME: 080622-pam-22.dgn
PLOT DRIVER: pam1.stt
PEN TABLE: standard-trans.tbl

PART OF THE EAST 1/2 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

CONTRACT 63515
SHEET 43 OF 120

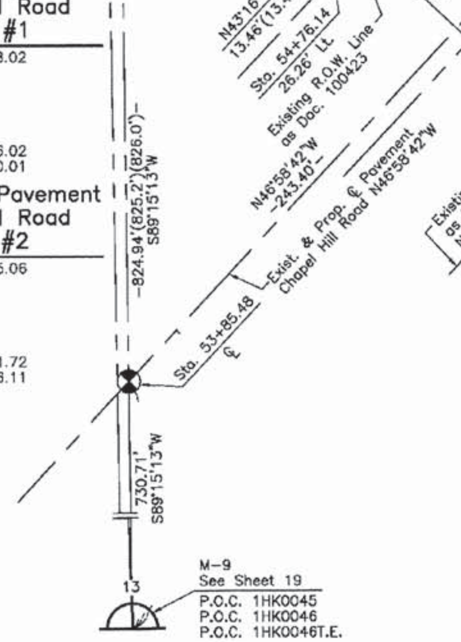


Proposed ℄ Pavement Chapel Hill Road Curve #1

P.I. = Sta. 56+68.02
Δ = 4°05'17"
R = 616.53'
T = 22.00'
L = 43.99'
E = 0.39'
P.C. = Sta. 56+46.02
P.T. = Sta. 56+90.01

Proposed ℄ Pavement Chapel Hill Road Curve #2

P.I. = Sta. 58+25.06
Δ = 32°13'52"
R = 150.01'
T = 43.34'
L = 84.39'
E = 6.14'
P.C. = Sta. 57+81.72
P.T. = Sta. 58+66.11



LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.32' MEASURED DIMENSION
129.32'(Comp.) COMPUTED DIMENSION
( ) RECORD DATA
EXISTING BUILDING

SCALE: 1"=20'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND — ⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET — ● 5/8" REBAR SET

● T1 T2 T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ — ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
}SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS______DAY OF____________20___A.D.

PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
53+85.48	℄	2,080,807.719	1,009,318.458
54+76.14	26.26' Lt.	2,080,850.380	1,009,234.262
55+41.62	33.78' Rt.	2,080,938.943	1,009,227.351
56+81.45	25.10' Lt.	2,080,989.522	1,009,085.314
56+86.71	25.19' Lt.	2,080,992.660	1,009,081.356
56+87.28	33.16' Lt.	2,080,986.823	1,009,075.906
57+31.12	30.00' Lt.	2,081,016.718	1,009,043.890

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0045	JNL-Johnsburg Properties, Inc.	0.771	0.117	N/A	0.086	0.654	N/A	N/A	09-13-277-001 09-13-277-002	
1HK0046 1HK0046T.E.	Deep Rock Land Company, LLC	0.907	0.009	403	N/A	0.898	0.017	Construction Purposes	09-13-253-018 09-13-253-020 09-13-253-022 09-13-426-002 09-13-426-011	

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
176+76.38	33.34' Rt.	2,081,161.405	1,009,092.695
177+36.12	0.10' Lt.	2,081,197.157	1,009,151.077
177+36.14	29.90' Rt.	2,081,167.181	1,009,152.273
177+36.15	30.95' Rt.	2,081,166.136	1,009,152.324
178+16.72	29.85' Rt.	2,081,170.394	1,009,232.797
178+18.61	0.15' Lt.	2,081,200.446	1,009,233.504

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
57+33.50	62.92' Lt.	2,080,992.591	1,009,021.360
57+34.55	62.87' Lt.	2,080,993.295	1,009,020.579
57+58.69	30.51' Lt.	2,081,033.635	1,009,022.103
57+67.33	18.94' Lt.	2,081,048.062	1,009,022.648
58+04.01	17.94' Lt.	2,081,074.931	1,008,993.886
58+06.49	11.95' Rt.	2,081,096.854	1,009,014.365
58+07.09	42.04' Rt.	2,081,117.171	1,009,036.563
58+27.35	39.60' Rt.	2,081,127.370	1,009,025.645
58+31.89	68.53' Rt.	2,081,145.486	1,009,048.391
176+10.72	29.99' Rt.	2,081,162.180	1,009,026.960
176+13.04	0.01' Lt.	2,081,192.249	1,009,028.096

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0045	100420	January 26, 1932
1HK0045	100421	January 26, 1932
1HK0045	100422	January 26, 1932
1HK0046	100420	January 26, 1932
1HK0046	100421	January 26, 1932
1HK0046	100422	January 26, 1932
1HK0046	100423	January 26, 1932
----	100420	January 26, 1932
----	100423	January 26, 1932
----	95R031118	August 1, 1995
----	95R034913	August 23, 1995
----	95R042604	October 4, 1995

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1 T2 T3	
2	T1 T2 T3	
3	T1 T2 T3	
4	T1 T2 T3	
5	T1 T2 T3	
6	T1 T2 T3	
7	T1 T2 T3	

REVISION DATE — REVISION — MADE BY

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. 168 (JOHNSBURG ROAD)
SECTION 05-00314-00-WR — McHENRY COUNTY
PROJECT — JOB NO. R-91-005-06
STATION 53+00 TO STATION 58+66.11 (CHAPEL HILL RD.)
STATION 175+62.17 TO STATION 179+00 (JOHNSBURG RD.)
SCALE: 1"=20' — SHEET 22 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 12:03:18 PM
FILE NAME: 080622-poh-23.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl
CHENRY
5-00314-03-WR
80622-poh-23.dgn

PART OF THE NE 1/4 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1HK0044 1HK0044T.E.	William E. Swartzloff and Donna J. Swartzloff, his wife, in Joint Tenancy	0.425	0.014	N/A	0.411	0.044	Construction Purposes	09-13-276-033	
1HK0047T.E.	SJMI Enterprise, LLC	1.127	N/A	N/A	1.127	0.030	Driveway Construction	09-13-276-027 09-13-276-034	

Existing & Proposed ℄ Pavement Johnsburg Road Curve #4

P.I. = Sta. 174+86.96
Δ = 2°07'41"
R = 4050.22'
T = 75.22'
L = 150.43'
E = 0.70'
P.C. = Sta. 174+11.74
P.T. = Sta. 175+62.17

Proposed ℄ Pavement Chapel Hill Road Curve #2

P.I. = Sta. 58+25.06
Δ = 32°13'52"
R = 150.01'
T = 43.34'
L = 84.39'
E = 6.14'
P.C. = Sta. 57+81.72
P.T. = Sta. 58+66.11

Proposed ℄ Pavement St. John's Avenue Curve #3

P.I. = Sta. 40+64.91
Δ = 18°20'08"
R = 200.01'
T = 32.28'
L = 64.01'
E = 2.59'
P.C. = Sta. 40+32.63
P.T. = Sta. 40+96.64

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
176+10.72	29.99' Rt.	2,081,162.180	1,009,026.960
176+30.86	35.67' Lt.	2,081,228.575	1,009,044.504
176+32.95	40.31' Lt.	2,081,233.294	1,009,046.414
176+63.74	27.79' Lt.	2,081,221.990	1,009,077.666
176+64.70	32.70' Lt.	2,081,226.936	1,009,078.435
176+82.40	86.72' Lt.	2,081,281.605	1,009,094.007
176+82.41	32.70' Lt.	2,081,227.632	1,009,096.132
177+02.04	27.77' Lt.	2,081,223.478	1,009,115.944
177+13.16	86.72' Lt.	2,081,282.815	1,009,124.746
177+30.09	86.72' Lt.	2,081,283.481	1,009,141.658
177+30.10	27.76' Lt.	2,081,224.567	1,009,143.978
178+39.21	27.72' Lt.	2,081,228.803	1,009,253.009

Schedule of Ties		
Point Number ☐	Tie to point	Tie Distance (feet)
1	T1 T2 T3	
2	T1 T2 T3	
3	T1 T2 T3	

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1HK0044	95R034913	August 23, 1995
1HK0047	95R031118	August 1, 1995
----	100420	January 26, 1932
----	100421	January 26, 1932
----	95R042604	October 4, 1995

LEGEND

SECTION CORNER — QUARTER SECTION CORNER

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- ℄ PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

SCALE: 1"=20'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

_____
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
58+04.01	17.94' Lt.	2,081,074.931	1,008,993.886
58+06.49	11.95' Rt.	2,081,096.854	1,009,014.365
58+27.35	39.60' Rt.	2,081,127.370	1,009,025.645
176+02.11	27.81' Lt.	2,081,219.598	1,009,016.084
176+04.37	54.28' Lt.	2,081,246.135	1,009,017.307
176+04.86	60.05' Lt.	2,081,251.915	1,009,017.574

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION 40+00.00 TO STATION 40+96.64 (ST. JOHN'S AVE.)
STATION 57+00 TO STATION 59+18.41 (CHAPEL HILL RD.)
STATION 175+00 TO STATION 178+58.66 (JOHNSBURG RD.)
SCALE: 1"=20' SHEET 23 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

CONTRACT 63515
SHEET 44 OF 120

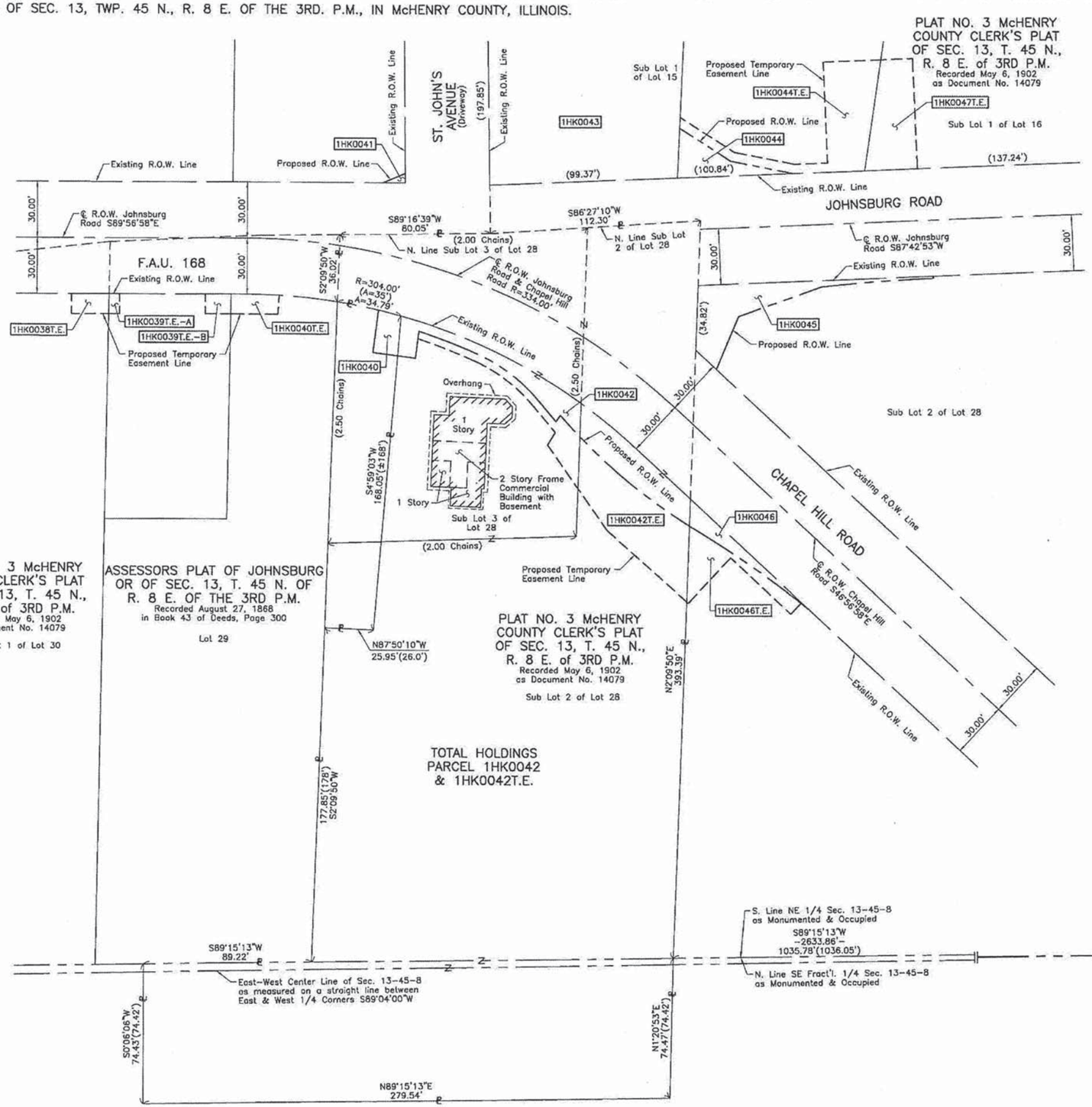
REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05-00314-00-WR | COUNTY McHENRY | JOB NO. R-91-005-06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

COMPANY NAME:
PROJECT CONTACT:
FILE:
DATE PLOTTED: 10/24/2013 10:03:24 PM
FILE NAME: 080622-port-24.dgn
PLOT DRIVER: pdf.pltr
PEN TABLE: standard-trans.tbl
CS: Body
63214-03-98
80622-port-24.dgn

PART OF THE EAST 1/2 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

CONTRACT 63515
SHEET 45 OF 120



LEGEND

SECTION CORNER (9|10 / 16|15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- ℄ PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

0 30' 60'

SCALE: 1"=30'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- O IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF_____20___A.D.

_____
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05-00314-00-WR McHENRY COUNTY
PROJECT JOB NO. R-91-005-06
STATION NONE TO STATION
SCALE: 1"=30' SHEET 28 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05-00314-00-WR | COUNTY McHENRY | JOB NO. R-91-005-06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

DGN COMPANY NAME:
05-00314-03-WR
080622-poh-29.dgn
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 10:03:31 PM
FILE NAME: 080622-poh-29.dgn
PLOT DRAWER: poh.pit
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PART OF THE NORTH 1/2 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

(Not to Scale)

Existing & Proposed P.C. #2 Johnsburg Road
Sta. 142+51.12
N.2,080,755.183–E.1,005,701.194

Existing & Proposed P.I. #2 Johnsburg Road
Sta. 147+67.93
N.2,080,759.403–E.1,006,217.989

Existing & Proposed P.T. #2 Johnsburg Road
Sta. 152+82.25
N.2,080,850.999–E.1,006,726.620

Existing & Proposed P.C. #3 Johnsburg Road
Sta. 170+31.13
N.2,081,160.958–E.1,008,447.811

Existing & Proposed P.I. #3 Johnsburg Road
Sta. 171+76.08
N.2,081,186.648–E.1,008,590.465

Existing & Proposed P.T. #3 Johnsburg Road
Sta. 173+20.28
N.2,081,186.948–E.1,008,735.413

Existing & Proposed P.C. #4 Johnsburg Road
Sta. 174+11.74
N.2,081,187.137–E.1,008,826.872

Existing & Proposed P.I. #4 Johnsburg Road
Sta. 174+86.96
N.2,081,187.293–E.1,008,902.095

Existing & Proposed P.T. #4 Johnsburg Road
Sta. 175+62.17
N.2,081,190.242–E.1,008,977.262

Existing & Proposed P.C. #5 Johnsburg Road
Sta. 178+58.66
N.2,081,201.864–E.1,009,273.521

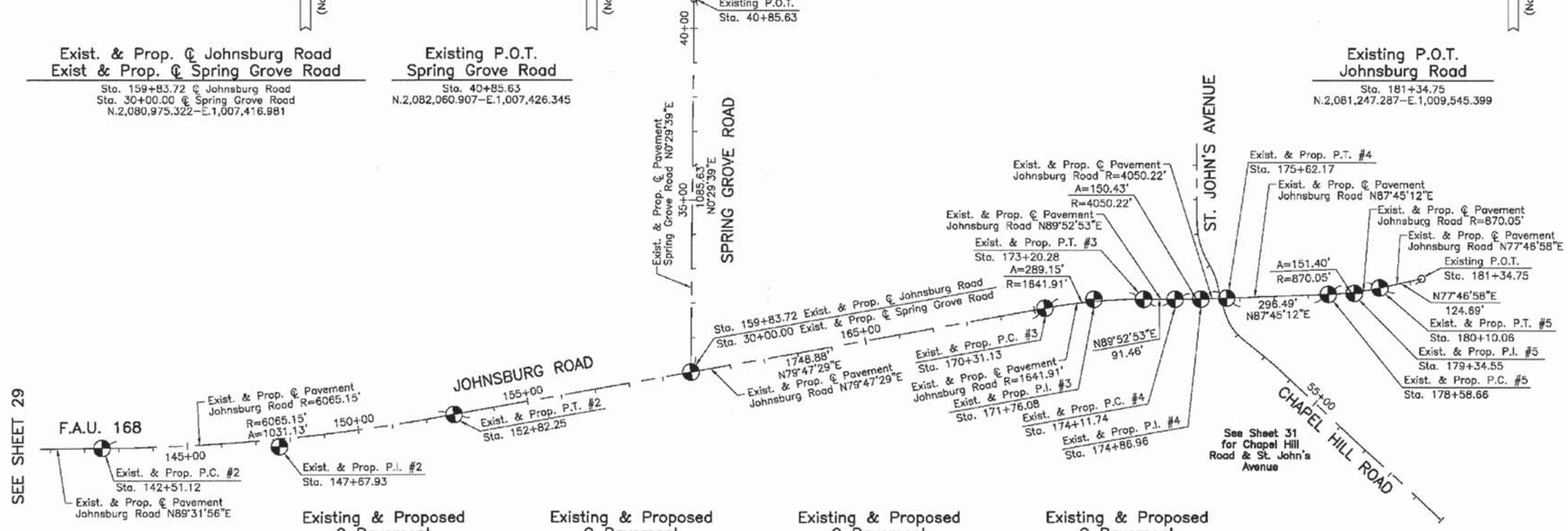
Existing & Proposed P.I. #5 Johnsburg Road
Sta. 179+34.55
N.2,081,204.840–E.1,009,349.357

Existing & Proposed P.T. #5 Johnsburg Road
Sta. 180+10.06
N.2,081,220.900–E.1,009,423.532

Exist. & Prop. ℄ Johnsburg Road Exist & Prop. ℄ Spring Grove Road
Sta. 159+83.72 ℄ Johnsburg Road
Sta. 30+00.00 ℄ Spring Grove Road
N.2,080,975.322–E.1,007,416.981

Existing P.O.T. Spring Grove Road
Sta. 40+85.63
N.2,082,060.907–E.1,007,426.345

Existing P.O.T. Johnsburg Road
Sta. 181+34.75
N.2,081,247.287–E.1,009,545.399



LEGEND

- SECTION CORNER (9 10 16 15)
- QUARTER SECTION CORNER (16 — 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- ℄ PROPERTY (DEED) LINE
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- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

N

0 200' 400'

SCALE: 1"=200'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }SS
COUNTY OF LAKE }

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DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

_____ PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

Existing & Proposed ℄ Pavement Johnsburg Road Curve #2

P.I. = Sta. 147+67.93
Δ = 9°44'27"
R = 6065.15'
T = 516.81'
L = 1031.13'
E = 21.98'
P.C. = Sta. 142+51.12
P.T. = Sta. 152+82.25

Existing & Proposed ℄ Pavement Johnsburg Road Curve #3

P.I. = Sta. 171+76.08
Δ = 10°05'24"
R = 1641.91'
T = 144.95'
L = 289.15'
E = 6.39'
P.C. = Sta. 170+31.13
P.T. = Sta. 173+20.28

Existing & Proposed ℄ Pavement Johnsburg Road Curve #4

P.I. = Sta. 174+86.96
Δ = 2°07'41"
R = 4050.22'
T = 75.22'
L = 150.43'
E = 0.70'
P.C. = Sta. 174+11.74
P.T. = Sta. 175+62.17

Existing & Proposed ℄ Pavement Johnsburg Road Curve #5

P.I. = Sta. 179+34.55
Δ = 9°58'14"
R = 870.05'
T = 75.89'
L = 151.40'
E = 3.30'
P.C. = Sta. 178+58.66
P.T. = Sta. 180+10.06

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05–00314–00–WR McHENRY COUNTY
PROJECT JOB NO. R–91–005–06
STATION 30+00.00 TO STATION 40+85.63 (SPRING GROVE RD.)
STATION 141+00 TO STATION 181+34.75 (JOHNSBURG RD.)
SCALE: 1"=200'

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05–00314–00–WR | COUNTY McHENRY | JOB NO. R–91–005–06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

DESIGN ENGINEER: COMPANY NAME: PROJECT CONTACT: CLIENT: DATE PLOTTED: FILE NAME: PLOT DRAWN: PEN TABLES:
00314-03-WR
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10/24/2013 03:42 PM
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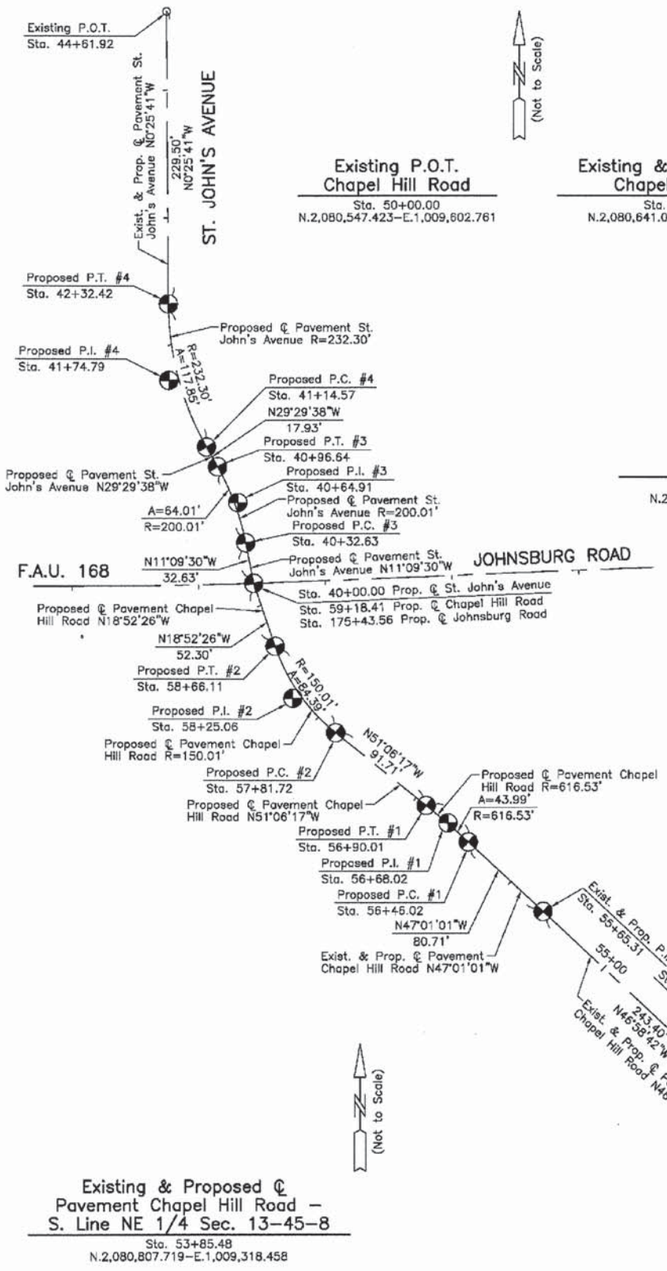
PART OF THE EAST 1/2 OF SEC. 13, TWP. 45 N., R. 8 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



Existing P.O.T.
Chapel Hill Road
Sta. 50+00.00
N.2,080,547.423–E.1,009,602.761

Existing & Proposed P.I.
Chapel Hill Road
Sta. 51+37.39
N.2,080,641.094–E.1,009,502.253

Existing & Proposed P.I.
Chapel Hill Road
Sta. 53+21.91
N.2,080,764.344–E.1,009,364.936

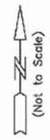
Existing & Proposed P.I.
Chapel Hill Road
Sta. 55+65.31
N.2,080,930.410–E.1,009,186.987

Proposed P.C. #1
Chapel Hill Road
Sta. 56+46.02
N.2,080,985.439–E.1,009,127.941

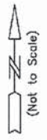
Proposed P.I. #1
Chapel Hill Road
Sta. 56+68.02
N.2,081,000.440–E.1,009,111.844

Proposed P.T. #1
Chapel Hill Road
Sta. 56+90.01
N.2,081,014.257–E.1,009,094.719

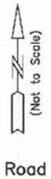
Proposed P.C. #2
Chapel Hill Road
Sta. 57+81.72
N.2,081,071.844–E.1,009,023.338



Proposed P.I. #2
Chapel Hill Road
Sta. 58+25.06
N.2,081,099.058–E.1,008,989.605



Proposed P.T. #2
Chapel Hill Road
Sta. 58+66.11
N.2,081,140.070–E.1,008,975.585



Exist. & Prop. ℄ Johnsburg Road
Proposed ℄ Chapel Hill Road
Proposed ℄ St. John's Avenue
Sta. 175+43.56 ℄ Johnsburg Road
Sta. 59+18.41 ℄ Chapel Hill Road
Sta. 40+00.00 ℄ St. John's Avenue
N.2,081,189.555–E.1,008,958.667

Proposed P.C. #3
St. John's Avenue
Sta. 40+32.63
N.2,081,221.570–E.1,008,952.352

Proposed P.I. #3
St. John's Avenue
Sta. 40+64.91
N.2,081,253.240–E.1,008,946.105

Proposed P.T. #3
St. John's Avenue
Sta. 40+96.64
N.2,081,281.336–E.1,008,930.213

Proposed P.C. #4
St. John's Avenue
Sta. 41+14.57
N.2,081,296.945–E.1,008,921.384

Existing & Proposed ℄
Pavement Chapel Hill Road –
S. Line NE 1/4 Sec. 13–45–8
Sta. 53+85.48
N.2,080,807.719–E.1,009,318.458

Proposed P.I. #4
St. John's Avenue
Sta. 41+74.79
N.2,081,349.361–E.1,008,891.735

Proposed P.T. #4
St. John's Avenue
Sta. 42+32.42
N.2,081,409.580–E.1,008,891.286

Existing P.O.T.
St. John's Avenue
Sta. 44+61.92
N.2,081,639.074–E.1,008,889.572

Proposed ℄ Pavement Chapel Hill Road #1

P.I.	= Sta. 56+68.02
Δ	= 4°05'17"
R	= 616.53'
T	= 22.00'
L	= 43.99'
E	= 0.39'
P.C.	= Sta. 56+46.02
P.T.	= Sta. 56+90.01

Proposed ℄ Pavement Chapel Hill Road #2

P.I.	= Sta. 58+25.06
Δ	= 32°13'52"
R	= 150.01'
T	= 43.34'
L	= 84.39'
E	= 6.14'
P.C.	= Sta. 57+81.72
P.T.	= Sta. 58+66.11

Proposed ℄ Pavement St. John's Avenue #3

P.I.	= Sta. 40+64.91
Δ	= 18°20'08"
R	= 200.01'
T	= 32.28'
L	= 64.01'
E	= 2.59'
P.C.	= Sta. 40+32.63
P.T.	= Sta. 40+96.64

Proposed ℄ Pavement St. John's Avenue #4

P.I.	= Sta. 41+74.79
Δ	= 29°03'58"
R	= 232.30'
T	= 60.22'
L	= 117.85'
E	= 7.68'
P.C.	= Sta. 41+14.57
P.T.	= Sta. 42+32.42

LEGEND

SECTION CORNER (9 10 16 15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- ℄ PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.32' MEASURED DIMENSION
- 129.32'(Comp.) COMPUTED DIMENSION
- ( ) RECORD DATA
- EXISTING BUILDING

CONTRACT 63515
SHEET 47 OF 120

N

0 60' 120'
SCALE: 1"=60'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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- □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 45N., RANGE 8E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS _____ DAY OF _____ 20___ A.D.

_____
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60048
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 168 (JOHNSBURG ROAD)

SECTION 05–00314–00–WR McHENRY COUNTY
PROJECT JOB NO. R–91–005–06
STATION 40+00.00 TO STATION 44+61.92 (ST. JOHN'S AVE.)
STATION 50+00.00 TO STATION 59+18.41 (CHAPEL HILL RD.)
SCALE: 1"=60' SHEET 31 OF 31

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE | REVISION | MADE BY

ROUTE F.A.U. 168 (JOHNSBURG ROAD) | SECTION 05–00314–00–WR | COUNTY McHENRY | JOB NO. R–91–005–06 | RECORDING: RECORDED ON | AS DOCUMENT NO.

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PROJECT CONTACT:
DATE:
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PLOT DRAWER: pdf.plt
PEN TABLE: standard-trans.tbl

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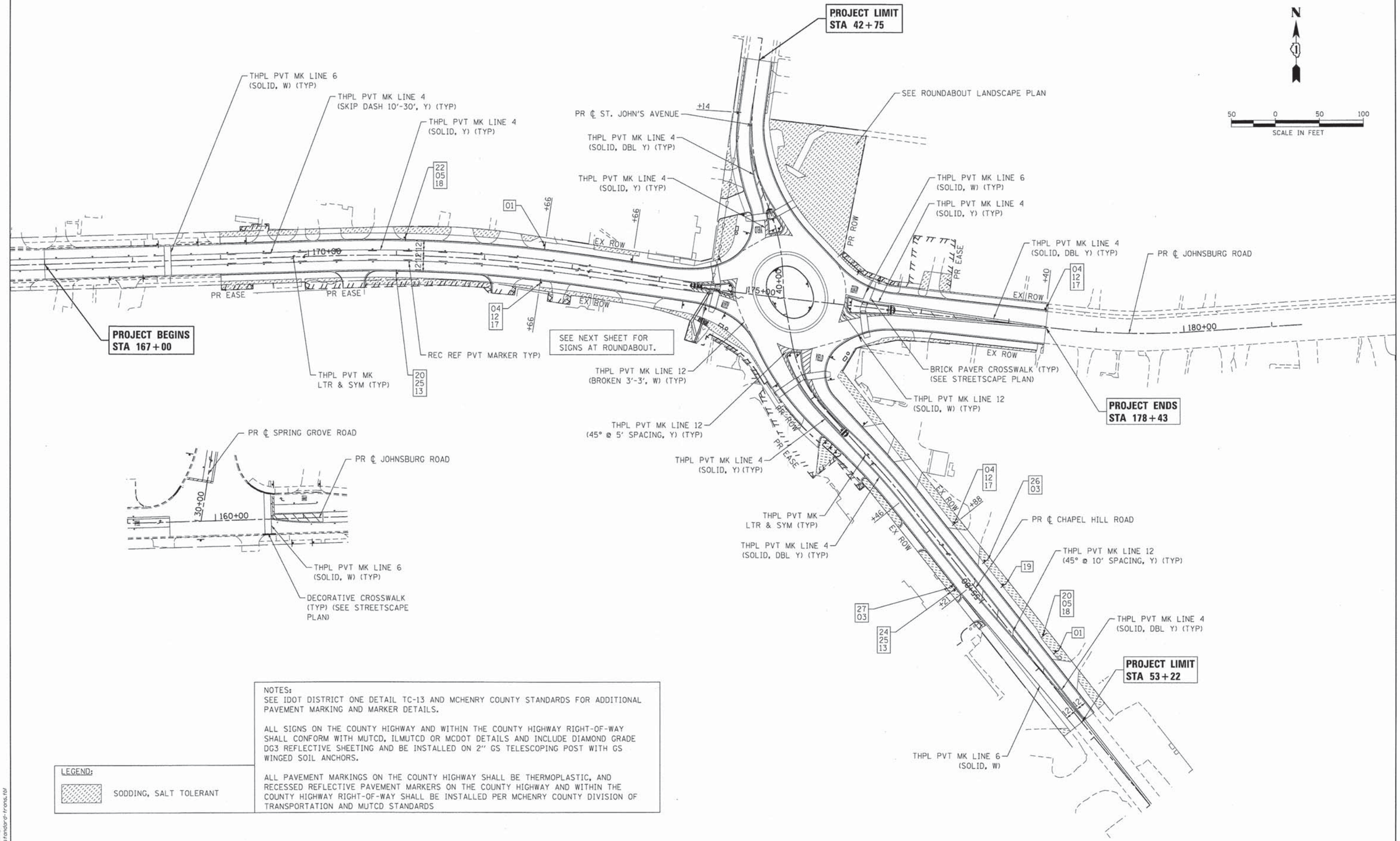

LEGEND:

SODDING, SALT TOLERANT

NOTES:
SEE IDOT DISTRICT ONE DETAIL TC-13 AND MCHENRY COUNTY STANDARDS FOR ADDITIONAL PAVEMENT MARKING AND MARKER DETAILS.

ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH MUTCD, ILMUTCD OR MCDOT DETAILS AND INCLUDE DIAMOND GRADE DG3 REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POST WITH GS WINGED SOIL ANCHORS.

ALL PAVEMENT MARKINGS ON THE COUNTY HIGHWAY SHALL BE THERMOPLASTIC, AND RECESSED REFLECTIVE PAVEMENT MARKERS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE INSTALLED PER MCHENRY COUNTY DIVISION OF TRANSPORTATION AND MUTCD STANDARDS

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 03:03:49 PM
FILE NAME: 080622-pm-02.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl

HRGreen
HRGreen.com
Illinois Professional Design Firm
184-001322

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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
JOHNSBURG ROAD

SCALE: 1" = 50' | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	48
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

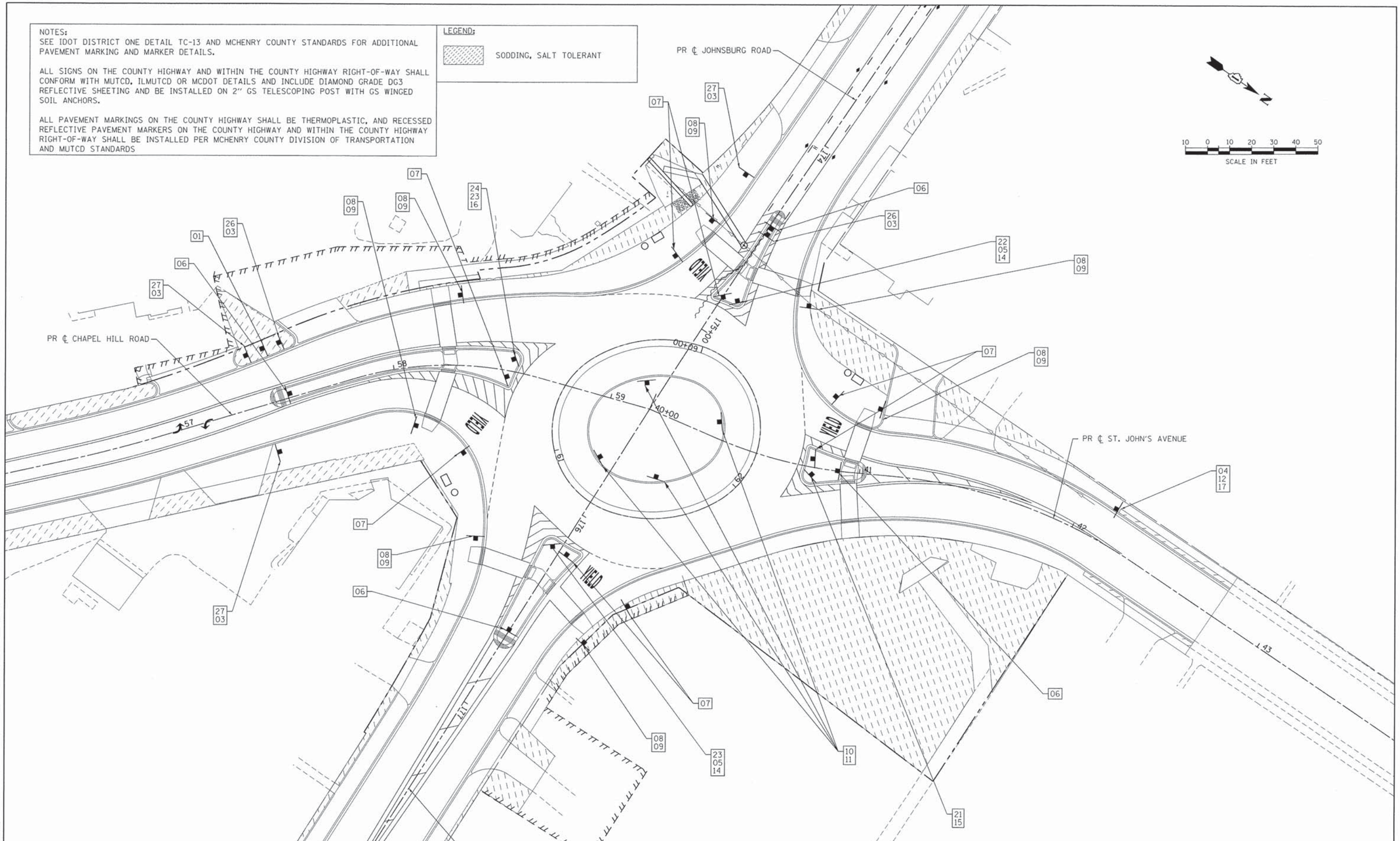
NOTES:
SEE IDOT DISTRICT ONE DETAIL TC-13 AND MCHENRY COUNTY STANDARDS FOR ADDITIONAL PAVEMENT MARKING AND MARKER DETAILS.

ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH MUTCD, ILMUTCD OR MCDOT DETAILS AND INCLUDE DIAMOND GRADE DG3 REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POST WITH GS WINGED SOIL ANCHORS.

ALL PAVEMENT MARKINGS ON THE COUNTY HIGHWAY SHALL BE THERMOPLASTIC, AND RECESSED REFLECTIVE PAVEMENT MARKERS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE INSTALLED PER MCHENRY COUNTY DIVISION OF TRANSPORTATION AND MUTCD STANDARDS

LEGEND:

SODDING, SALT TOLERANT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
JOHNSBURG ROAD ROUNDABOUT

SCALE: 1" = 50' | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	49
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

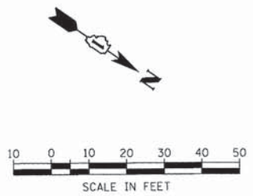
NOTES:
SEE IDOT DISTRICT ONE DETAIL TC-13 AND MCHENRY COUNTY STANDARDS FOR ADDITIONAL PAVEMENT MARKING AND MARKER DETAILS.

ALL SIGNS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL CONFORM WITH MUTCD, ILMUTCD OR MCDOT DETAILS AND INCLUDE DIAMOND GRADE DG3 REFLECTIVE SHEETING AND BE INSTALLED ON 2" GS TELESCOPING POST WITH GS WINGED SOIL ANCHORS.

ALL PAVEMENT MARKINGS ON THE COUNTY HIGHWAY SHALL BE THERMOPLASTIC, AND RECESSED REFLECTIVE PAVEMENT MARKERS ON THE COUNTY HIGHWAY AND WITHIN THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE INSTALLED PER MCHENRY COUNTY DIVISION OF TRANSPORTATION AND MUTCD STANDARDS

LEGEND:

SODDING, SALT TOLERANT



PR ℄ JOHNSBURG ROAD
PR ℄ CHAPEL HILL ROAD
PR ℄ ST. JOHN'S AVENUE
PR ℄ JOHNSBURG ROAD
40+00
60+00
175+00
L174
L175
L176
L167
L57
L58
L59
L41
L42
L43
VEG.
+39 5.5' RT
+55 5.2' RT
+63 1.8' RT
+61 18.7' RT
+63 5.3' RT
+67 20.0' RT
+26 27.6' LT
+19 26.4' LT
+22 9.5' LT
+69 2.3' RT
+69 2.3' RT
+13.1 47.7' RT
173.8'R
+90 10.1' RT
34.3'R
+88 15.9' RT
+87 7.1' RT
+39 4.9' RT
+63 6.3' RT
+62 8.9' RT
+69 7.5' RT
+68 10.3' RT
+58 24.5' RT
+63 26.9' RT
+04 19.4' LT
+99 5.3' LT
+99 5.3' LT
+91 48.5' LT
+96 21.7' LT
+94 9.3' LT
+93 6.3' LT
+14 65.4' LT
57.9'R
90'R
+20 5.4' LT
+07 5.1' RT
+98 4.7' RT
+45 71.3' LT
+93 5.5' RT
+28 10.1' LT
+28 8.5' LT
+52 13.3' LT
+41 51.9' RT
51.6'R
+82 53.1' RT
+77 83.3' RT
+83 81.9' RT
+11 3.5' RT
+08 20.6' RT
+32 8.1' RT
58.2'R
+13 11.9' LT
+34 6.4' LT
58.2'R
+41 8.7' LT
+00 43.9' LT
+37 22.9' LT
+43 21.3' LT
+41 8.2' LT
+40 5.7' LT
+60 7.4' LT
+65 7.9' LT
+93 8.1' RT
+94 21.9' RT
+99 6.8' RT
+01 20.3' RT
+47 7.1' LT
+00 8.1' LT
+22 8.2' LT
+84 7.5' LT
+87 3.5' RT
66.6'R
+47 4.0' RT
+21 2.9' RT
+12 21.1' RT
+24.3 35.6' RT
+21 24.9' RT
+20 7.5' RT
+37 28.9' RT
+42 26.6' RT
+33 12.0' RT
+39 10.5' RT
+38 7.6' RT
+66 6.1' RT
+70 6.0' RT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
JOHNSBURG ROAD ROUNDABOUT

SCALE: 1" = 20' | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	50
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

01
R2-1
30" X 36"

02
NOT USED

03
R3-9b
24" X 36"

04
W2-6
36" X 36"

05
M1-6
24" X 24"

06
R4-7
24" X 30"

07
R1-2
36" X 36"

08
W16-7p
20" X 15"

09
W11-2
36" X 36"

10
R6-4a
48" X 24"

11
R6-1
36" X 12"

12
W13-1
24" X 24"

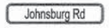
13
W17-1100
24" X 18"

14
D1-1d
24" X 18"

15
D1-1d
24" X 18"

16
D1-1d
24" X 18"

17
W16-17P
24" X 12"



18
W17-1100
24" X 9"

19
D9-14
24" X 24"

20
M2-1
21" X 15"

21
M3-1
24" X 12"

22
M3-4
24" X 12"

23
M3-2
24" X 12"

24
M3-3
24" X 12"

25
M1-6
24" X 24"

26
R3-9cP
30" X 12"

27
R3-9dP
30" X 12"

COMPANY NAME:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
SIGNING LEGEND

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	51
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLANT PALETTE

Rosa 'Radrazz'
Knockout Shrub Rose

Features: Summer Flowers
Salt Tolerant

Liatris spicata 'Kobold Original'
Kobold Gayfeather

Features: Flowers Aug - Oct
Drought Tolerant

Calamagrostis acutiflora 'Karl Foerster'
Feather Reed Grass

Features: Winter Interest
Cool Season Grass

PLANT SCHEDULE

Johnsburg Roundabout
Materials List

QTY.	KEY	BOTANICAL NAME/ITEM	COMMON NAME	SIZE	TYPE	NOTES
SHADE TREES						
4	TICO	TILIA CORDATA	LITTLE LEAF LINDEN	2.5"cal	b&b	
DECIDUOUS SHRUBS						
55	RORA	Rosa 'Radrazz'	Knockout Shrub Rose	36"ht.	cont.	36" o.c.
GROUNDCOVER, PERENNIALS AND VINES						
37	MISI	Calamagrostis acutiflora	Feather Reed Grass	1 gal.	cont.	24" o.c.
		'Karl Foerster'				
342	LIKO	Perennial Plants, Ornamental	Blazing Star	1 gal.	cont.	18" o.c.
		Type, Gallon Pot				
SHADE TREES						
8	PINE	Evergreen, Pinus Nigra		6'ht.		
		(Austrian Pine), 6' Balled				
		and Burlapped				
MISCELLANEOUS						
803	SOD			sf.		
10	MULCH			cy.		shrub/tree area
63	COMP	Mushroom Compost		cy.		perennial area

GENERAL NOTES:

1. No Tree shall be planted closer than 30 feet of the right of way intersection.
2. Trees shall have a minimum spacing of 20 feet from light poles, street signs, fire hydrants and any other such items that may, in the opinion of the public works director, require similar intervals.

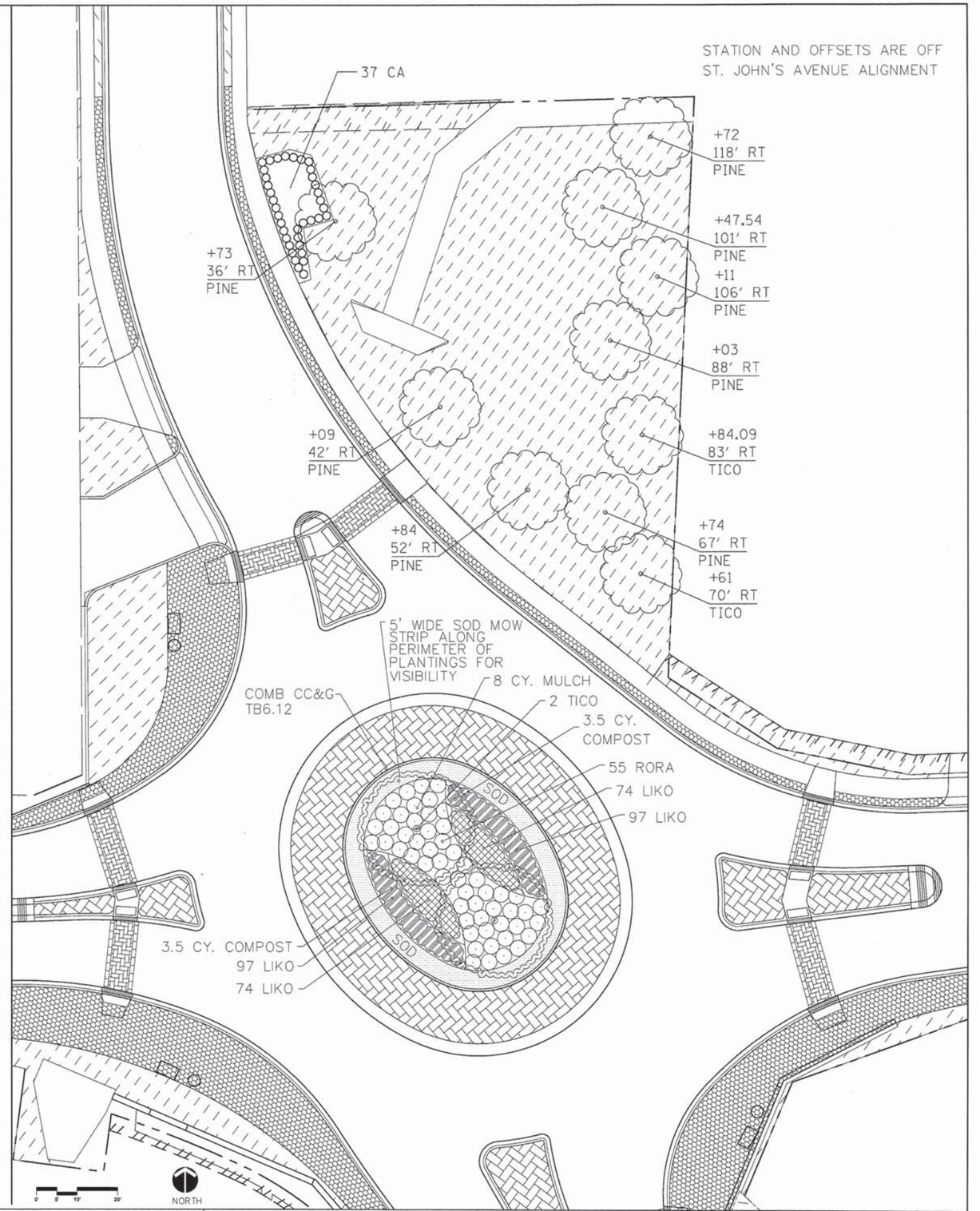
LEGEND

BRICK PAVER PLAZA

DECORATIVE CROSSWALK
(SEE STREETSCAPE DETAILS)

STAMPED COLORED PORTLAND CEMENT
CONCRETE MEDIAN SURFACE 8 INCH

NOTE:
STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE IS 6 INCHES ON SPLITTER ISLANDS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN
JOHNSBURG ROAD ROUNDABOUT

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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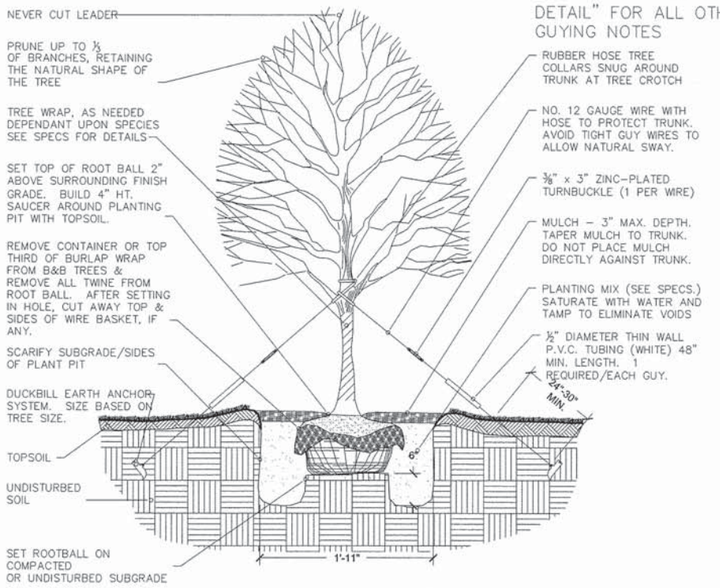
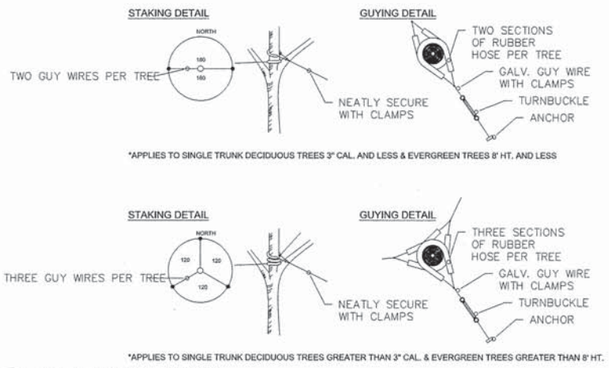
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



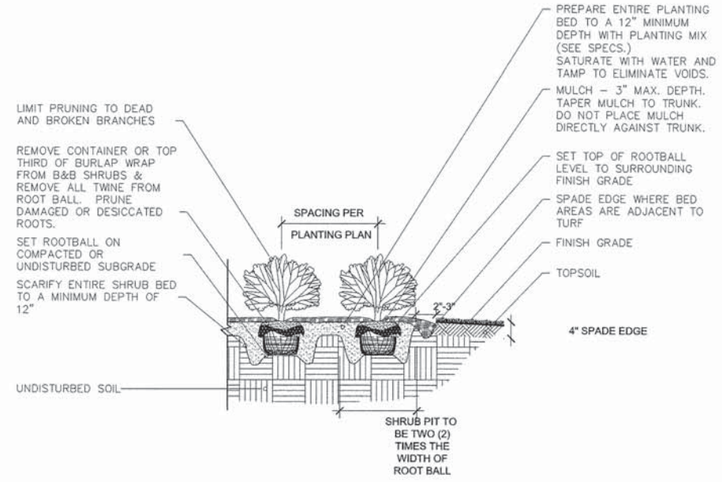
1 TREE PLANTING DETAIL
NOT TO SCALE



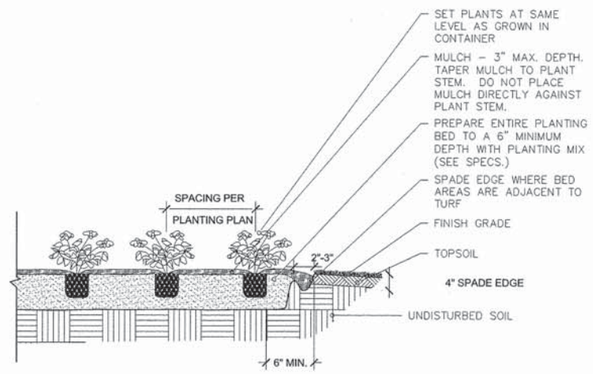
GUYING STANDARDS
- TWO (2) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
- 13' OF ⅛" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
- ½" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
- TWO (2) TURNBUCKLES, EYE AND EYE TYPE, ⅜" THREAD DIAMETER WITH 3" TAKE-UP
- FOUR (4) ⅛" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH ¼" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
- TWO (2) RUBBER HOSE TREE COLLARS, 21" LONG, EA.

GUYING STANDARDS
- THREE (3) ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
- 13' OF ⅛" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
- ½" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
- THREE (3) TURNBUCKLES, EYE AND EYE TYPE, ⅜" THREAD DIAMETER WITH 3" TAKE-UP
- SIX (6) ⅛" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH ¼" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
- THREE (3) RUBBER HOSE TREE COLLARS, 21" LONG, EA.

TREE GUYING DETAIL
NOT TO SCALE



SHRUB BED PLANTING DETAIL
NOT TO SCALE



4 PERENNIAL & GROUNDCOVER BED PLANTING DETAIL
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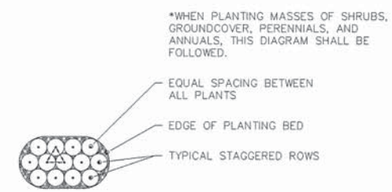

5 PLANT MASSING LAYOUT DIAGRAM
NOT TO SCALE

Know what's **below.** **Call** before you dig.

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PROJECT CONTACT:
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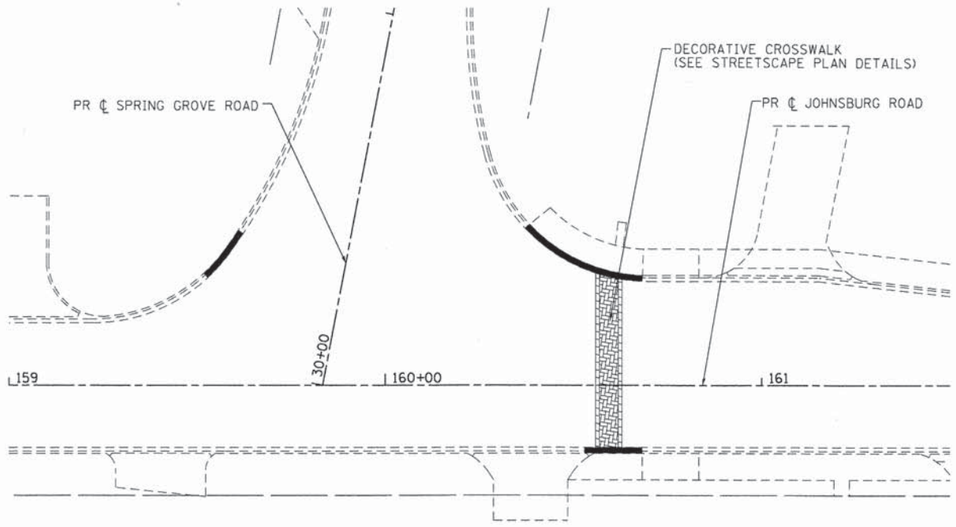
PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -

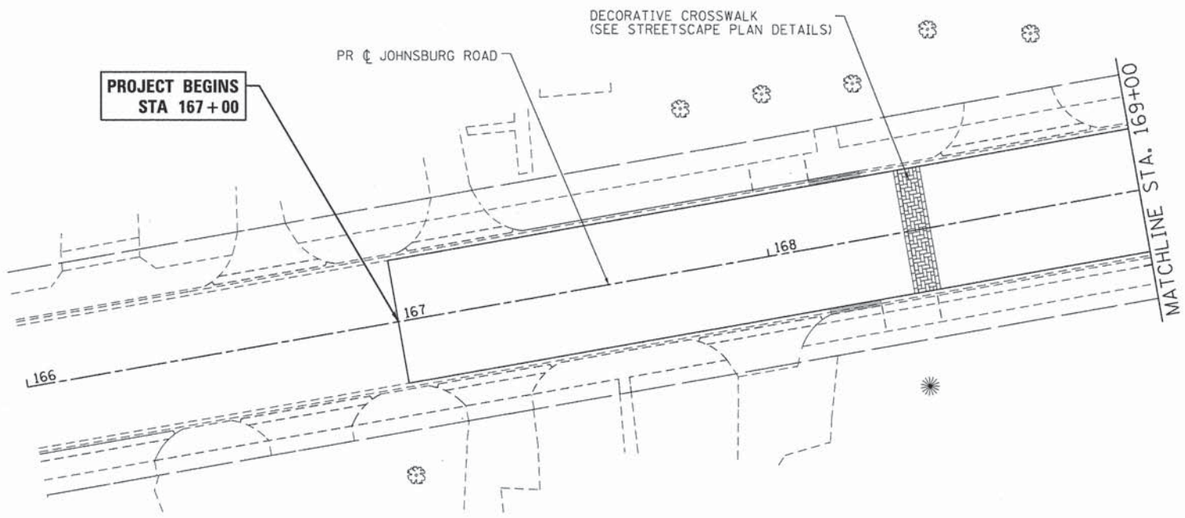
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN
JOHNSBURG ROAD ROUNDABOUT

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	53
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTE:

ALL DRIVEWAYS SHALL CONSIST OF PORTLAND CEMENT CONCRETE FROM BACK OF CURB TO SIDEWALK. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, OF THICKNESS REQUIRED.

PROPOSED SIDEWALK THAT CROSSES THROUGH PROPOSED DRIVEWAYS SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY SHALL BE THE SAME AS THE DRIVEWAY THICKNESS.

DRIVEWAY REPLACEMENTS FROM BACK OF SIDEWALK TO RIGHT OF WAY/EASEMENT SHALL MATCH EXISTING AND BE PAID FOR AS STABILIZED DRIVEWAYS, OF THICKNESS REQUIRED.

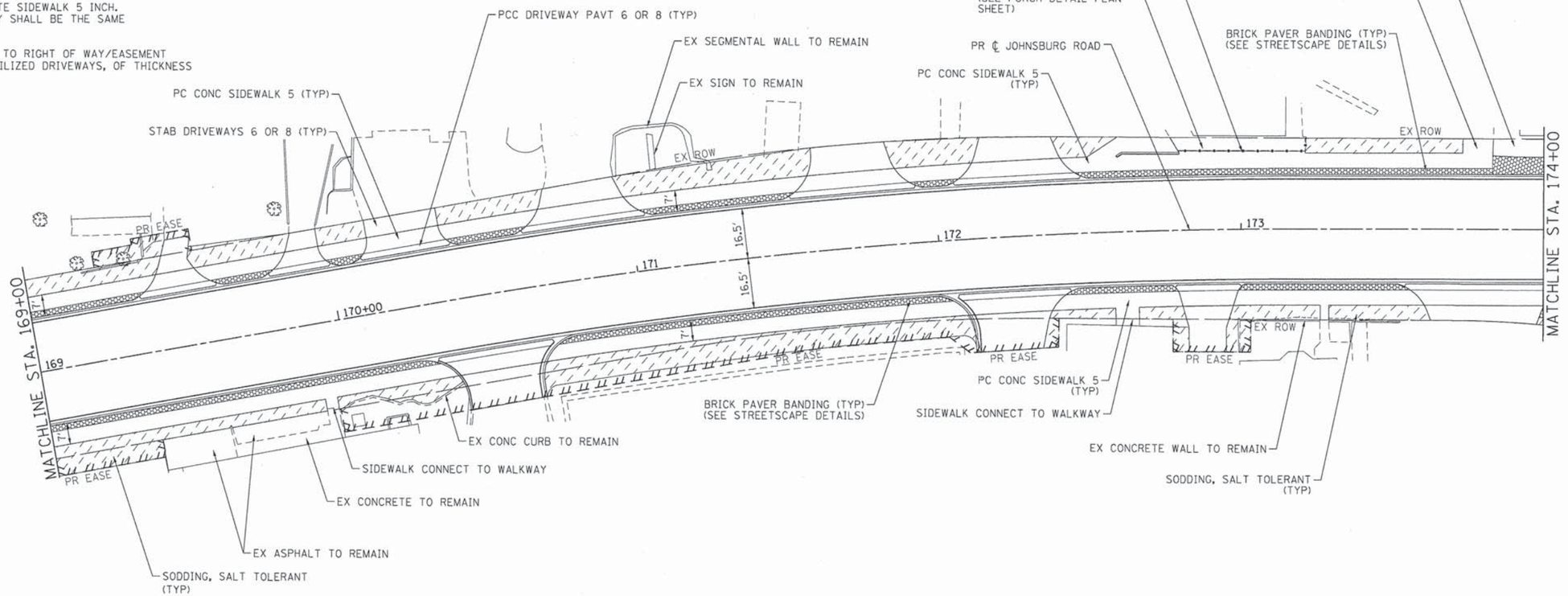
LEGEND

- SODDING, SALT TOLERANT
- BRICK PAVER BANDING
- DECORATIVE CROSSWALK

N

10 0 10 20 30 40 50

SCALE IN FEET



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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE PLAN
JOHNSBURG ROAD

SCALE: 1" = 20' | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	54
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

℄ ST. JOHN'S AVENUE

+05
19.6 RT

PR ROW

+89
25.0' LT

42

7'

PR ROW

EX ROW

7'

LEGEND

- SODDING, SALT TOLERANT
- BRICK PAVER BANDING OR BRICK PAVER PLAZA
- DECORATIVE CROSSWALK

NOTE:
ALL DRIVEWAYS SHALL CONSIST OF PORTLAND CEMENT CONCRETE FROM BACK OF CURB TO SIDEWALK. THIS WORK SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, OF THICKNESS REQUIRED.

PROPOSED SIDEWALK THAT CROSSES THROUGH PROPOSED DRIVEWAYS SHALL BE PAID FOR AS PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH. THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY SHALL BE THE SAME AS THE DRIVEWAY THICKNESS.

DRIVEWAY REPLACEMENTS FROM BACK OF SIDEWALK TO RIGHT OF WAY/EASEMENT SHALL MATCH EXISTING AND BE PAID FOR AS STABILIZED DRIVEWAYS, OF THICKNESS REQUIRED.

CONTRACTOR TO STAKE FINAL BENCH AND RECEPTACLE LOCATIONS IN FIELD AND GET VILLAGE APPROVAL BEFORE INSTALLING.

BRICK PAVER PLAZA SHALL BE FULL WIDTH OF SIDEWALK, DETAILED AS SHOWN FOR BANDING ON STREETSCAPE PLAN DETAILS. BRICK PAVER PLAZA SHALL BE PAID FOR AS "BRICK PAVER BANDING".

N

10 0 10 20 30 40 50
SCALE IN FEET

PARALLEL MID-BLOCK CURB RAMP PER STANDARD 424016-01 WITH DETECTABLE WARNING

CORNER PARALLEL CURB RAMP FOR SIDEWALKS PER STANDARD 424011-01 WITH DETECTABLE WARNINGS

PC CONC SIDEWALK 5 (TYP)

CORNER PARALLEL CURB RAMP FOR SIDEWALKS PER STANDARD 424011-01 WITH DETECTABLE WARNINGS

BRICK PAVER PLAZA (PLAZA PAVERS PAID FOR AS BRICK PAVER BANDING) (TYP)

CORNER PARALLEL CURB RAMP FOR SIDEWALKS PER STANDARD 424011-01 WITH DETECTABLE WARNINGS

CONC CURB TB

CONC STEPS PAID FOR AS PC CONC SIDEWALK 6 (SEE PORCH & CONCRETE STEP DETAIL)

PARK BENCH
+80, 72' LT

RECEPTACLE
+80, 66' LT

PR EASE

PR EASE

SODDING, SALT TOLERANT (TYP)

SIDEWALK CONNECT TO WALKWAY

BRICK PAVER BANDING (TYP)
(SEE STREETSCAPE PLAN DETAILS)

**PROJECT ENDS
STA 178+43**

PC CONC SIDEWALK 5
(TYP)

178+42.68

EX ROW

MATCHLINE STA. 174+00

174

175+00

176

177

178

179

18'

18'

DECORATIVE CROSSWALK
(SEE STREETSCAPE PLAN DETAILS)

PARK BENCH
+76, 40' RT

RECEPTACLE
+83, 42' RT

EX ROW

PR ROW

PR ℄ CHAPEL HILL ROAD

PC SIDEWALK 10 SP
(SEE STRUCTURAL PLANS FOR DETAILS)

RECEPTACLE
+22, 54' RT

PARK BENCH
+20, 61' RT

PR ROW

PR ROW

PR ROW

EX ROW

PR ROW

MATCH EXISTING SIDEWALK

EX TYPE B CURB (TYP)

SIDEWALK CONNECT TO WALKWAY

PEDESTRIAN RAIL (SPECIAL)
(SEE STRUCTURAL PLANS FOR DETAILS)

CONC CURB TB

PCC DRIVEWAY PAVT 6 OR 8 (TYP)

PC CONC SIDEWALK 5 (TYP)

STAB DRIVEWAY 6 OR 8 (TYP)

CORNER PARALLEL CURB RAMP FOR SIDEWALKS PER STANDARD 424011-01 WITH DETECTABLE WARNINGS

CORNER PARALLEL CURB RAMP FOR SIDEWALKS PER STANDARD 424011-01 WITH DETECTABLE WARNINGS

PR EASE

PEDESTRIAN RAIL (SPECIAL)
(SEE STRUCTURAL PLANS FOR DETAILS)

SIDEWALK, SPECIAL
(SEE STRUCTURAL PLANS FOR DETAILS)

SEGMENT CONC BLK WALL
(SEE STRUCTURAL PLAN FOR DETAILS)

PARALLEL MID-BLOCK CURB RAMP PER STANDARD 424016-01 WITH DETECTABLE WARNING

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PROJECT CONTACT:
CLIENT:
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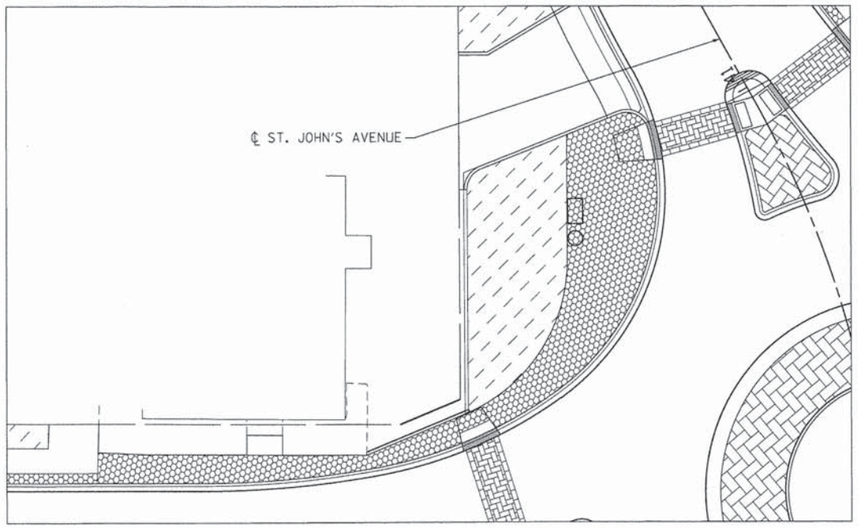
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

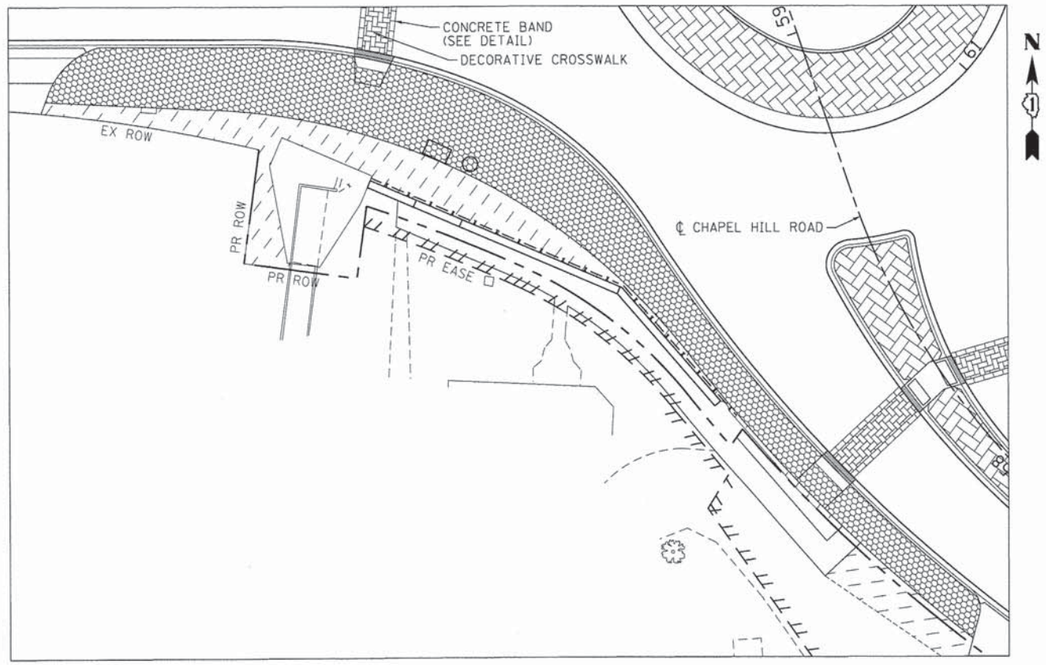
**STREETSCAPE PLAN
JOHNSBURG ROAD**

SCALE: 1" = 20' | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	55
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETAIL "B"
1" = 15'

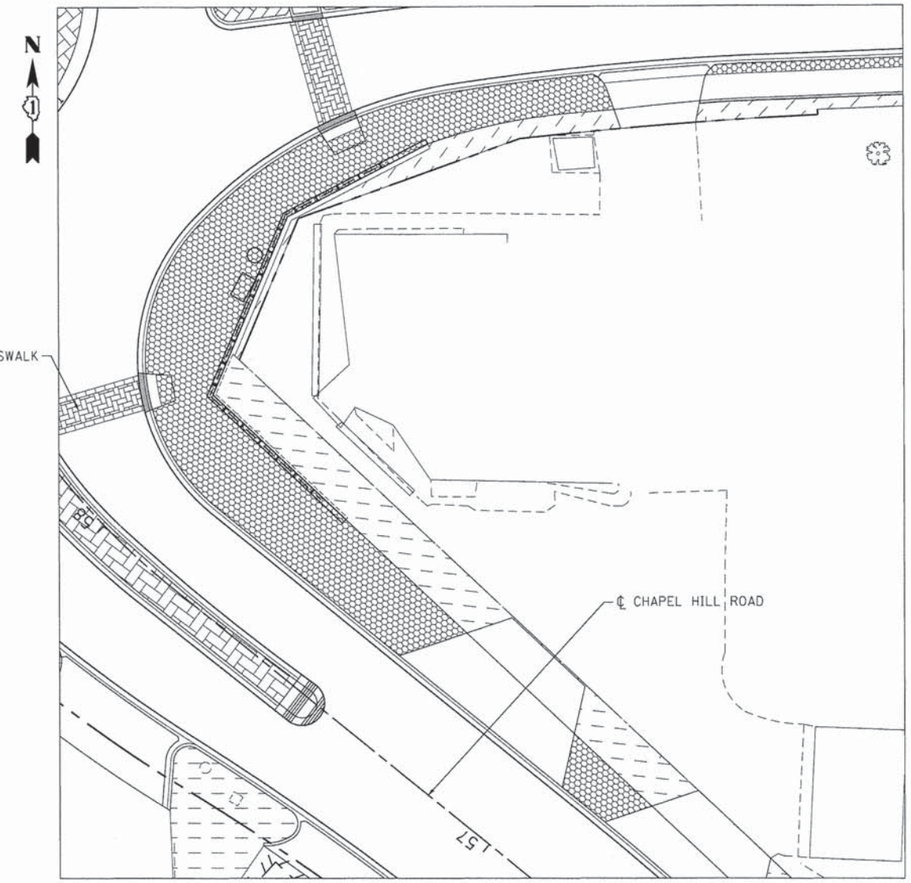


DETAIL "A"
1" = 15'

LEGEND

- SODDING, SALT TOLERANT
- BRICK PAVER ACCENT STRIP
- DECORATIVE CROSSWALK
- BENCHES
- TRASH RECEPTACLE, FURNISH & INSTALL

NOTE:
CONTRACTOR TO STAKE FINAL BENCH AND TRASH RECEPTACLE LOCATIONS IN FIELD AND GET VILLAGE APPROVAL BEFORE INSTALLING.



DETAIL "C"
1" = 15'

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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE PLAN DETAILS
JOHNSBURG ROAD

SCALE: 1" = 15' | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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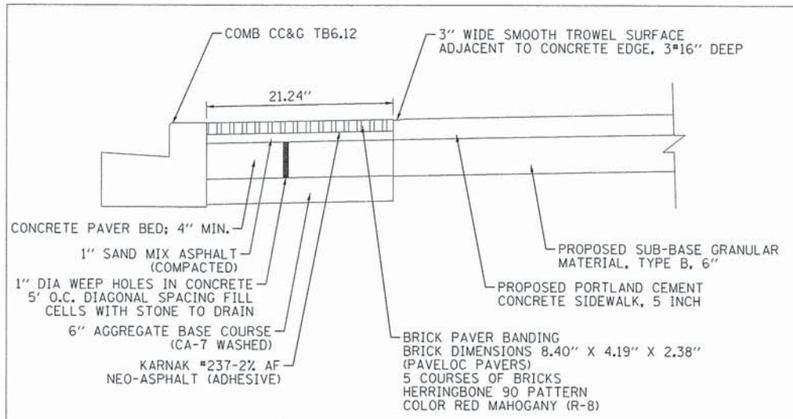
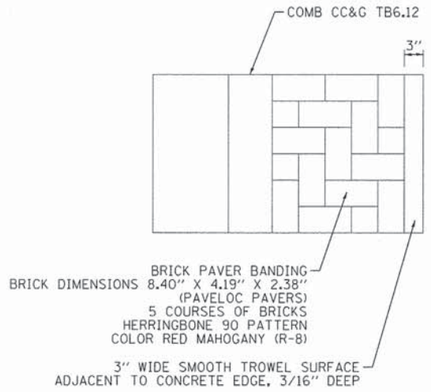
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





INSTALLATION NOTES

1. PAVERS SHALL BE INSTALLED ON TOP OF THE CONCRETE PAVER BED, INSTALLING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PIECES WILL THEN BE INSTALLED.
2. CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND MIX ASPHALT COURSE WITH A MECHNICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.
3. POLYMERIC SAND IS THEN SWEPT INTO THE JOINTS AND VIBRATED UNTIL THE JOINTS ARE FULL.
4. THE PAVERS SHALL BE PLACED ACCORDING TO MANUFACTURER SPECIFICATIONS AND INTERLOCKING CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.
5. THE PAVERS SHALL BE ARRANGED IN A HERRINGBONE 90 PATTERN.

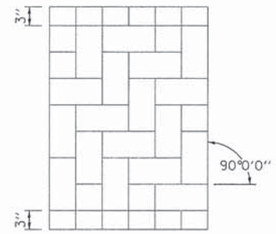
BRICK PAVER BANDING

N.T.S.

DECORATIVE CROSSWALK DETAILS

Pattern Details

Color: Burnt Red



HERRINGBONE 90 PATTERN

N.T.S.

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 11/4/2013 11:14:13 AM
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PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE PLAN DETAILS
BRICK PAVER BANDING AND DECORATIVE CROSSWALK

SCALE: N.T.S. | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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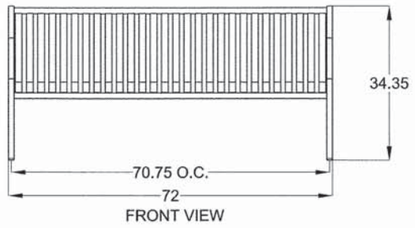
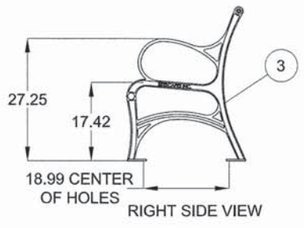
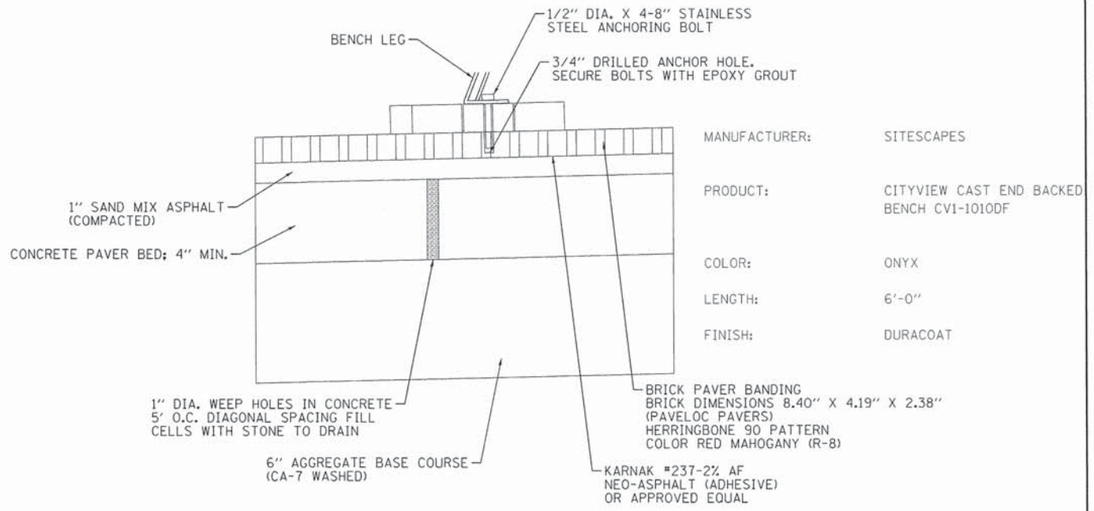
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





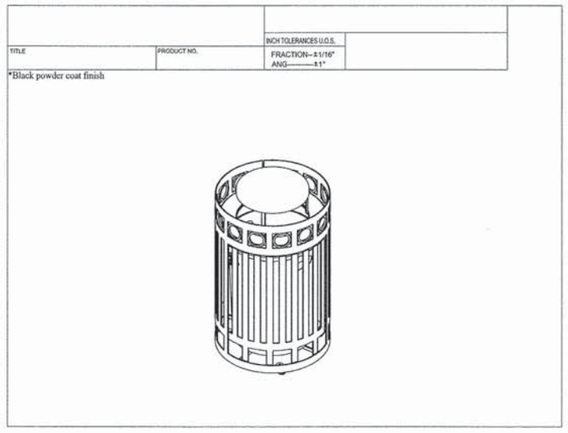
TYPICAL BENCH DETAIL

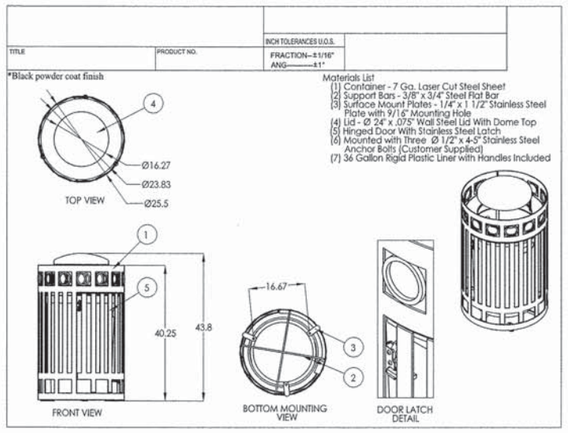
SCALE: N.T.S.



BENCH ANCHOR DETAIL

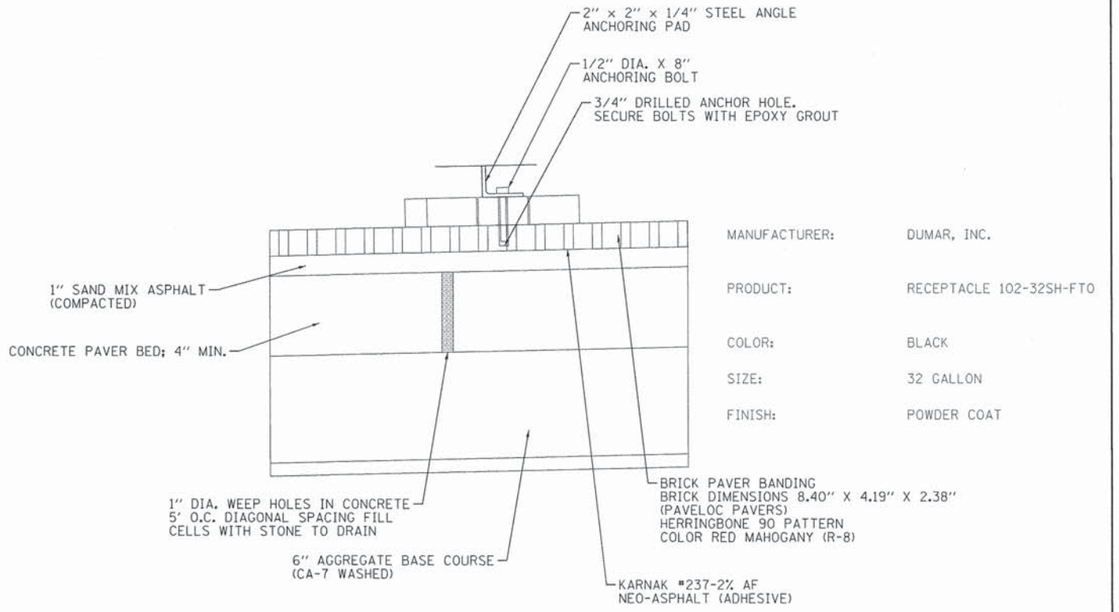
SCALE: N.T.S.





TYPICAL TRASH RECEPTACLE DETAIL

SCALE: N.T.S.



TRASH ANCHOR DETAIL

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PROJECT CONTACT:
CLIENT:
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PLOT DATE = 11/4/2013	DATE - 11/4/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREETSCAPE DETAILS
BENCH AND TRASH RECEPTACLE DETAILS

SCALE: N.T.S. | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

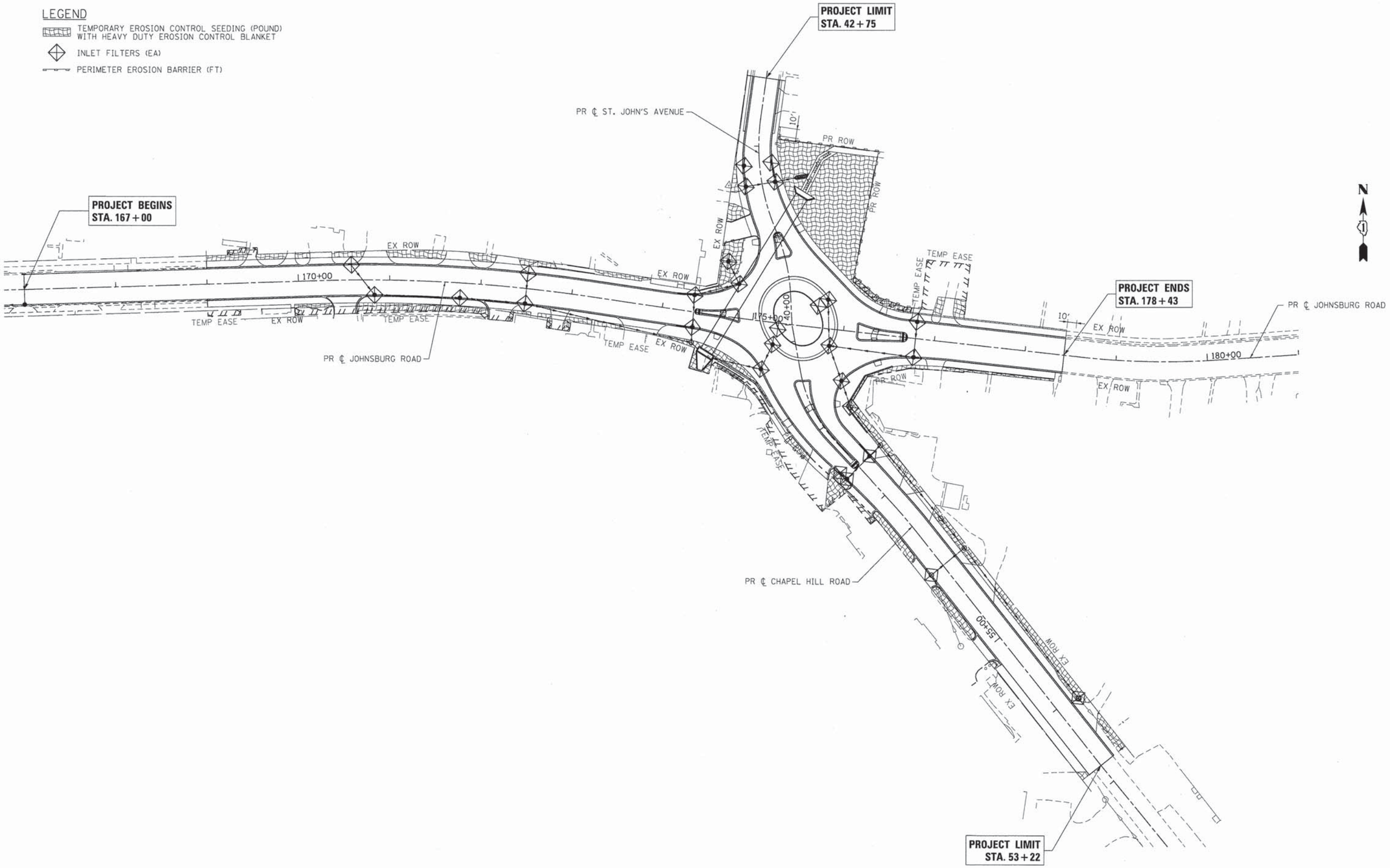
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	58
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY EROSION CONTROL SEEDING (POUND) WITH HEAVY DUTY EROSION CONTROL BLANKET

INLET FILTERS (EA)

PERIMETER EROSION BARRIER (FT)



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PLOT SCALE = 1" = 50'	CHECKED - TH	REVISED -
PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
JOHNSBURG ROAD, CHAPEL HILL ROAD AND ST. JOHN'S AVENUE

SCALE: 1" = 50' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	59
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MCHENRY COUNTY AND THE VILLAGE OF JOHNSBURG STORMWATER ORDINANCES. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT ILR40. THE CONTRACTOR SHALL ALSO UTILIZE THE STANDARDS AND SPECIFICATIONS IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.

3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.

4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.

5. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED. SOIL STOCKPILES MUST NOT BE LOCATED WITHIN ANY SPECIAL MANAGEMENT AREAS. SPECIAL MANAGEMENT AREAS INCLUDE JURISDICTIONAL WETLANDS AND ADJACENT OFF-SITE WETLANDS.

EROSION CONTROL GENERAL NOTES (CONT.)

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS TO REMAIN FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN WETLANDS.

7. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

8. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.

9. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.

10. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.

11. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

12. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.

EROSION CONTROL GENERAL NOTES (CONT.)

13. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 72 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.

14. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE OTHERWISE NOTED IN THE CONTRACT SPECIAL PROVISIONS.

15. THE COST OF REPAIRING OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.

16. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.

17. TREES TO BE PROTECTED DURING CONSTRUCTION SHOULD BE IDENTIFIED BY THE ENGINEER AND BE IN ACCORDANCE TO THE DETAILS PROVIDED IN THE PLANS, AND SHALL BE PAID FOR AS TEMPORARY FENCE.

18. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM INCLUDING THE BED AND BANKS, SHALL BE STABLIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.

MCHENRY COUNTY STORMWATER PERMIT REQUIREMENTS:

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.

2. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.

5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

6. 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 MEASURES).

7. 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.

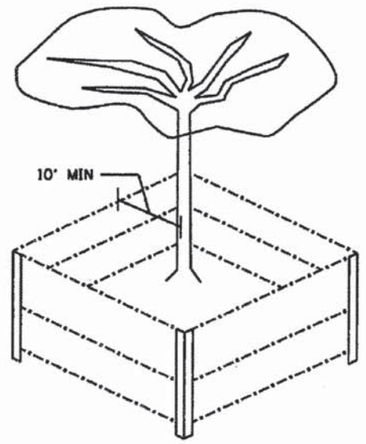
8. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

9. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.

10. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DESPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.

11. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.

12. DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.



TREE PROTECTION
(PAID FOR AS TEMPORARY FENCE)

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PLOT DATE = 10/24/2013	DATE - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN NOTES

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	60
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL ELECTRICAL PLAN NOTES

1. THIS PROJECT INCLUDES THE INSTALLATION OF INTERSECTION LIGHTING AT JOHNSBURG RD AND CHAPEL HILL RD ALONG WITH PEDESTRIAN LIGHTING FROM EAST OF SPRING GROVE ROAD TO ST. JOHNS/CHAPEL HILL RD.

2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK.

3. THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER'S REVIEW WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT COPIES OF APPROVED MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE RESIDENT ENGINEER.

4. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRE. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES AND ACCESSORIES ARE INSTALLED.

5. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

6. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.

7. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF JOHNSBURG/MCHENRY COUNTY TO LOCATE AND MARK ALL VILLAGE OWNED AND COUNTY OWNED UNDERGROUND UTILITIES.

8. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".

9. WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH MAY BE USED.

10. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION HEIGHTS WITH THE FINISHED SIDEWALK ELEVATION SO FOUNDATION DOES NOT PROTRUDE BEYOND SPECIFIED REQUIREMENTS.

11. AT THE COMPLETION OF THE PROJECT THE INTERSECTION LIGHTING SYSTEM SHALL BE OWNED AND MAINTAINED BY MCHENRY COUNTY.

12. AT THE COMPLETION OF THE PROJECT THE PEDESTRIAN LIGHTING SYSTEM SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF JOHNSBURG.

13. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.

14. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

15. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "REPORDUCIBLE RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.

16. ALL UNIT DUCT FOR MCHENRY COUNTY LIGHTING RUNS SHALL CONTAIN AN INSULATED, GREEN TRACER WIRE 1/C, NO. 14. THE COST OF THE TRACER WIRE SHALL BE INCLUDED IN THE COST OF PAY ITEM UNIT DUCT, 600V, 3-1/C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE. THE TRACER WIRE SHALL BE SPLICED IN POLE HAND HOLE AND GROUNDED.

17. THE LIGHTING CABINET WILL HAVE A SKELETON LOCK BY CORBIN. THE COST SHALL BE INCLUDED IN THE COST OF THE CABINET.

SUMMARY OF QUANTITIES - ROADWAY LIGHTING IMPROVEMENT

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	410
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	458
81028710	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3/4" DIA.	FOOT	2350
81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1550
81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2340
81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	66
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	16
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	144
83600350	LIGHT POLE FOUNDATION, METAL, 11" BOLT CIRCLE, 8" X 6'	EACH	24
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	16
X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	24
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
XX007797	LUMINAIRE (SPECIAL)	EACH	16

LEGEND

- LIGHTING UNIT: 35 FT MH, 10 FT MA 250W METAL HALIDE, MCIII LUMINAIRE WITH BREAKAWAY DEVICE
- [H] HANDHOLE
- UNIT DUCT (SIZE AS NOTED ON PLANS)
- ELECTRIC CABLE IN CONDUIT 3-1/C #1/0 (XLP-TYPE USE)
- UTILITY SERVICE CONNECTION, POLE MOUNTED
- LIGHTING CONTROLLER, 120/240V 1Ø, 3 WIRE
- UNDERGROUND RIGID GALVANIZED STEEL CONDUIT (TO BE INSTALLED UNDER PAVEMENT)
- GROUND ROD
- ORNAMENTAL LIGHT UNIT WITH BANNER: 18'-7" MH, 2 FT MA 100W METAL HALIDE LUMINAIRE (UNITS ON CIRCUITS "E" AND "H")
- ORNAMENTAL LIGHT UNIT WITH PLANTER: 18'-7" MH, 2 FT MA 100W METAL HALIDE LUMINAIRE (UNITS ON CIRCUITS "F" AND "G")

PROFESSIONAL ENGINEER'S SIGN & SEAL

FOR LIGHTING SHEETS: RLP-01 to RLP-12

BRENDA D LOWERY, P.E.
EXPIRES 11-30-2013

BRENDA D. LOWERY 062-065244 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

RLP-01

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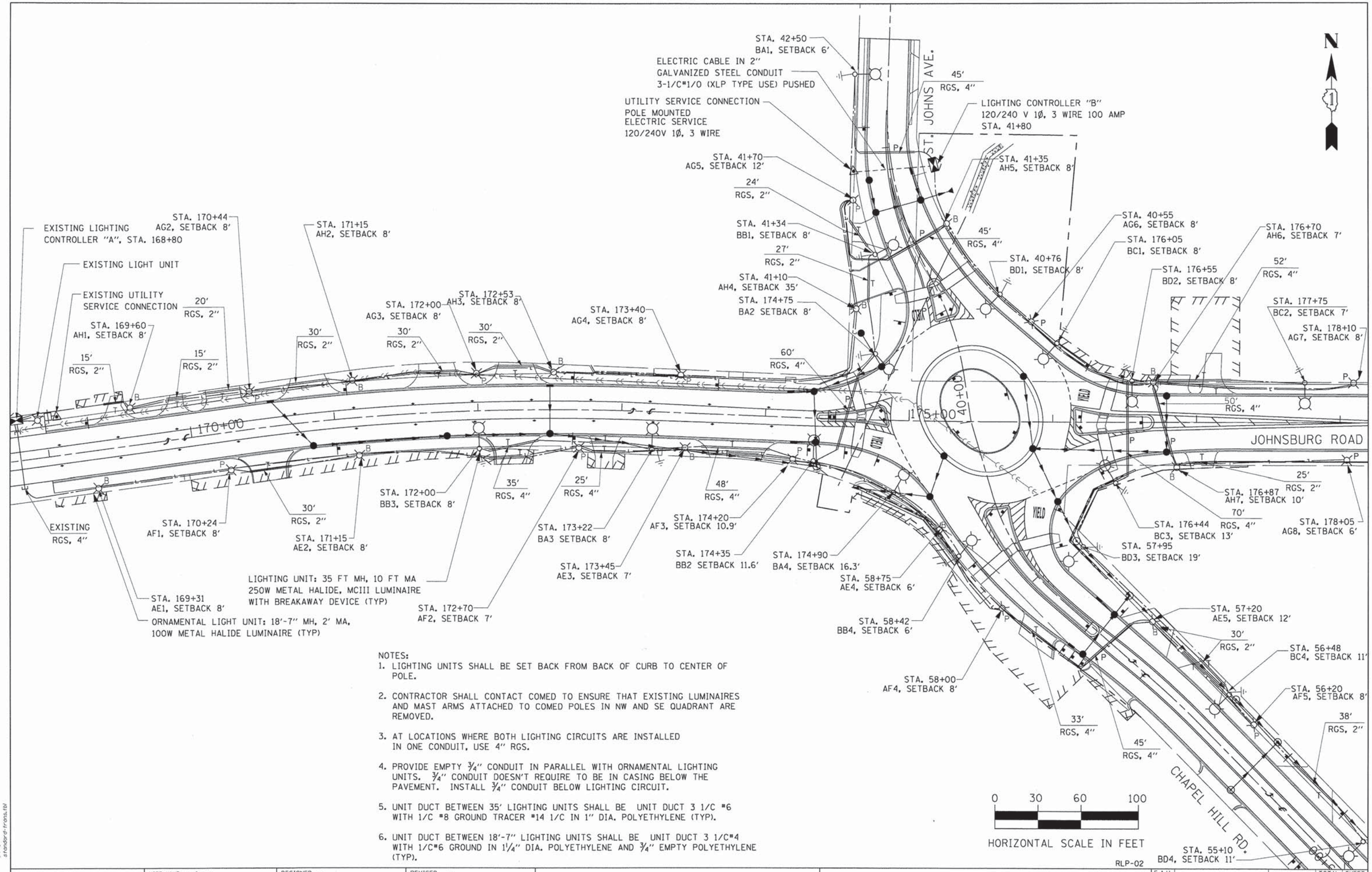
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
GENERAL NOTES, SUMMARY OF QUANTITIES AND LEGEND

SCALE: NTS | SHEET NO. 1 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	61
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. LIGHTING UNITS SHALL BE SET BACK FROM BACK OF CURB TO CENTER OF POLE.
2. CONTRACTOR SHALL CONTACT COMED TO ENSURE THAT EXISTING LUMINAIRES AND MAST ARMS ATTACHED TO COMED POLES IN NW AND SE QUADRANT ARE REMOVED.
3. AT LOCATIONS WHERE BOTH LIGHTING CIRCUITS ARE INSTALLED IN ONE CONDUIT, USE 4" RGS.
4. PROVIDE EMPTY ¾" CONDUIT IN PARALLEL WITH ORNAMENTAL LIGHTING UNITS. ¾" CONDUIT DOESN'T REQUIRE TO BE IN CASING BELOW THE PAVEMENT. INSTALL ¾" CONDUIT BELOW LIGHTING CIRCUIT.
5. UNIT DUCT BETWEEN 35' LIGHTING UNITS SHALL BE UNIT DUCT 3 1/C #6 WITH 1/C #8 GROUND TRACER #14 1/C IN 1" DIA. POLYETHYLENE (TYP).
6. UNIT DUCT BETWEEN 18'-7" LIGHTING UNITS SHALL BE UNIT DUCT 3 1/C#4 WITH 1/C#6 GROUND IN 1¼" DIA. POLYETHYLENE AND ¾" EMPTY POLYETHYLENE (TYP).

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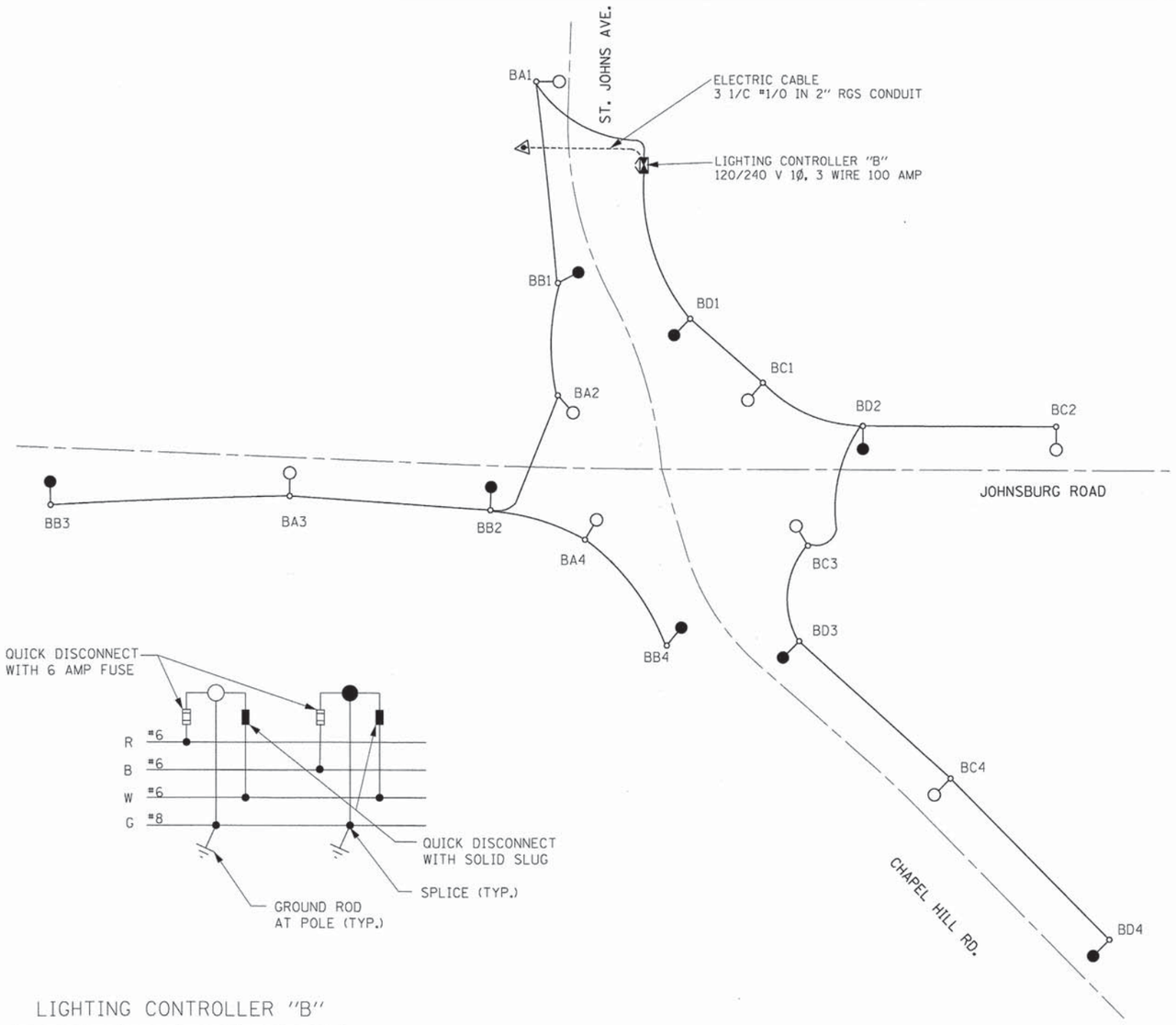
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
LIGHTING PLAN AT JOHNSBURG RD /ST. JOHN'S AVE /CHAPEL HILL RD

SCALE: 1" = 30' | SHEET NO. 2 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	62
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LIGHTING CONTROLLER "B"

CIRCUIT	AMPS	VA	CIRCUIT	AMPS	VA
A	10.0	1200	B	10	1200
C	10.0	1200	D	10	1200
E	SPARE	SPARE	F	SPARE	SPARE
G	SPARE	SPARE	H	SPARE	SPARE
TOTAL	20	2400	TOTAL	20	2400

NOTE

EMPTY ¾" CONDUIT APPLIES TO DECORATIVE LIGHTING ONLY
AND IS NOT INSTALLED IN PARALLEL WITH STREET LIGHTING CIRCUITS.

LEGEND

- LUMINAIRE 250W METAL HALIDE, ON RED CIRCUIT, 120V
- LUMINAIRE 250W METAL HALIDE, ON BLACK CIRCUIT, 120V
- LIGHTING CONTROLLER "B" 120/240V 1Ø, 3 WIRE 100 AMP
- UNIT DUCT 3 1/C #6 WITH 1/C #8 GROUND, TRACER NO. 14 1/C IN 1" DIA. POLYETHYLENE
- UTILITY SERVICE CONNECTION POLE MOUNTED

RLP-03

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

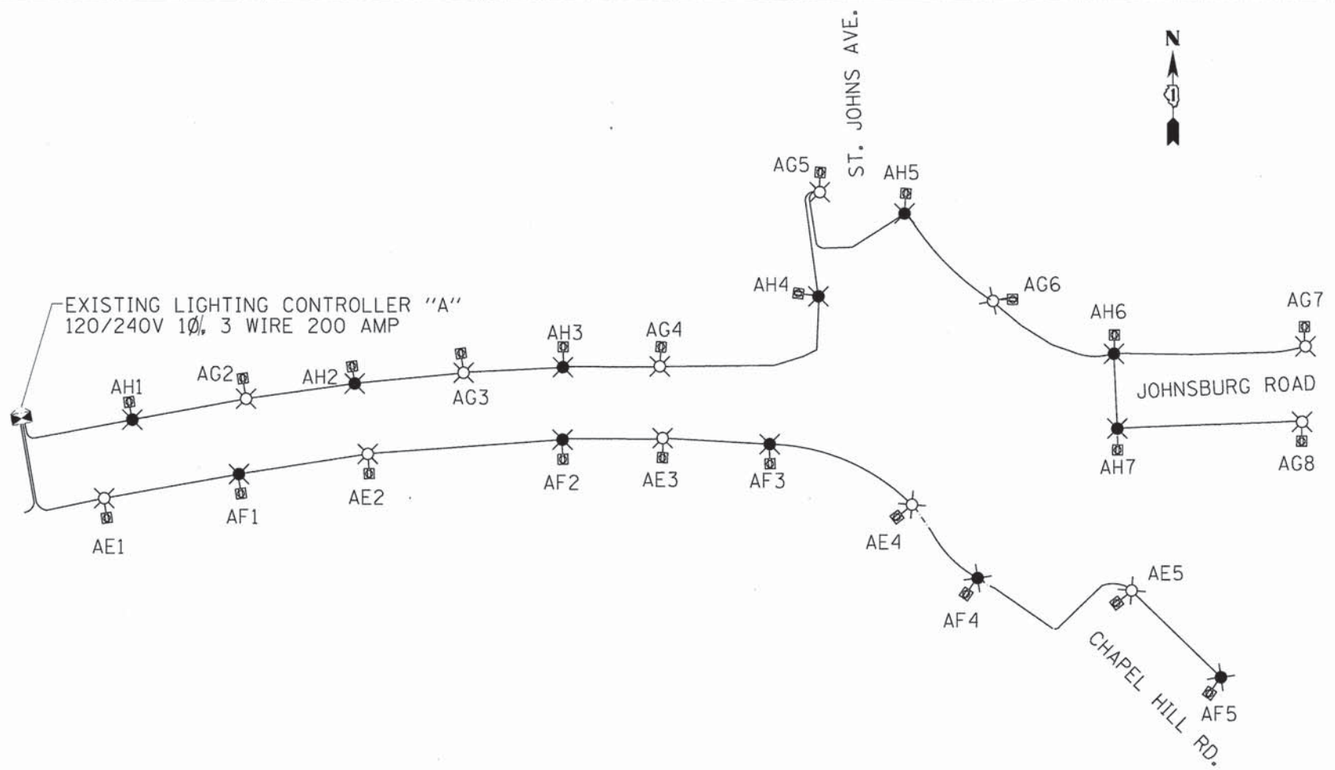
LIGHTING PLAN
WIRING DIAGRAMS

SCALE: NTS | SHEET NO. 3 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	63
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:
1. EMPTY ¾" CONDUIT SHALL HAVE SAME ROUTING (AND TERMINATION POINTS, WITH THE EXCEPTION THAT THE ¾" CONDUITS SHALL EXTEND PAST THE LIGHTING CONTROLLER SEVERAL FEET INTO THE VILLAGE PARK) AS THE LIGHTING CIRCUIT. APPLIES TO DECORATIVE LIGHTING ONLY.

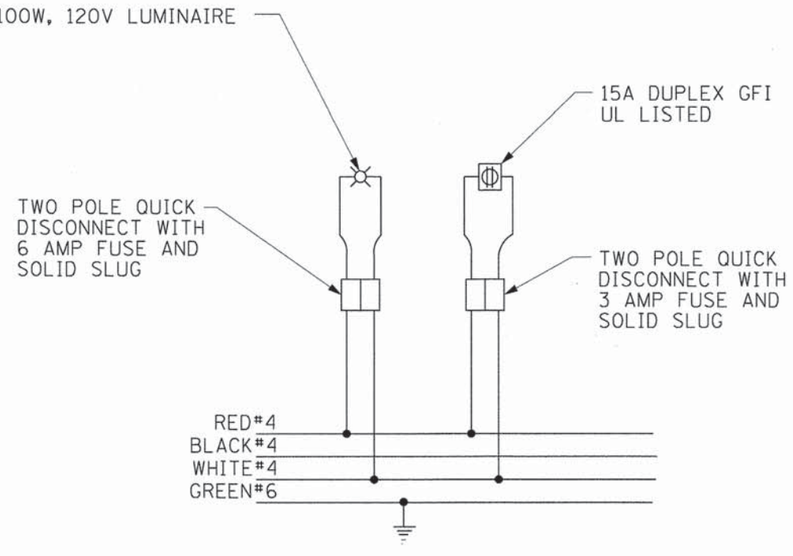
2. WITH NEW ORNAMENTAL LIGHTING LOAD, THE EXISTING LIGHTING CONTROLLER "A" OF 100 AMP RATING NEEDS TO BE UPGRADED TO A 200 AMP RATING PER THE SPECIAL PROVISIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "MODIFY EXISTING LIGHTING CONTROLLER".



LIGHTING CONTROLLER "A"

	RED			BLACK	
CIRCUIT	AMPS @ 120V	VA	CIRCUIT	AMPS @ 120V	VA
A	23.0	2760	B	23.0	2760
C	23.0	2760	D	27.6	3312
E	23.0	2760	F	23.0	2760
G	36.8	4416	H	36.8	4416
I	SPARE	SPARE	J	SPARE	SPARE
TOTAL	105.8	12,696	TOTAL	110.4	13,248
TOTAL LOAD 216.2 A					

LOAD DATA:
100W, 120V LUMINAIRE: 1.6A
15A RECEPTACLE, 120V: 3A
TOTAL LOAD/LTG UNIT: 4.6A



SINGLE POLE WIRING

LEGEND

- LUMINAIRE, 100 W, 120V METAL HALIDE, ON RED CIRCUIT
- LUMINAIRE, 100 W, 120V METAL HALIDE, ON BLACK CIRCUIT
- LIGHTING CONTROLLER, 120/240V 1Ø, 3 WIRE 200 AMP
- UNIT DUCT 3 1/C #4 WITH 1/C #6 GROUND, 1¼" DIA. POLYETHYLENE AND UNDERGROUND CONDUIT (EMPTY) ¾"C
- 15A DUPLEX GFI
- UTILITY SERVICE CONNECTION POLE MOUNTED

COMPANY NAME:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
WIRING DIAGRAMS

SCALE: NTS | SHEET NO. 4 OF 12 SHEETS | STA. | TO STA.

RLP-04

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 63870		
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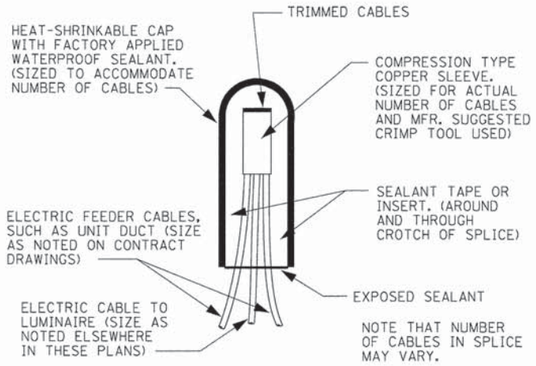

SPLICING DETAIL

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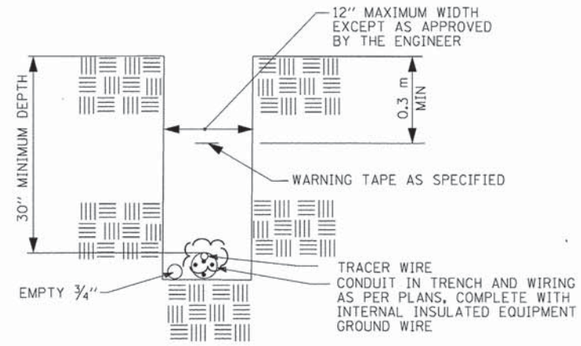

TYPICAL CONDUIT IN TRENCH DETAIL

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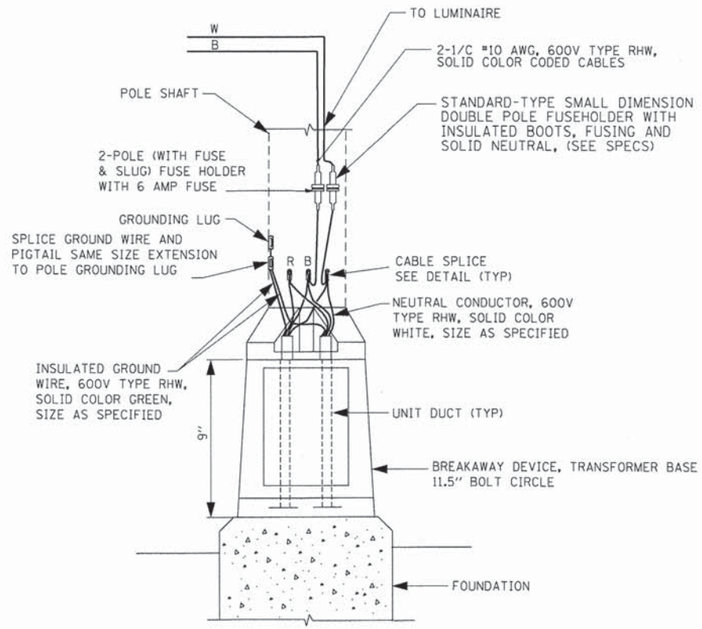
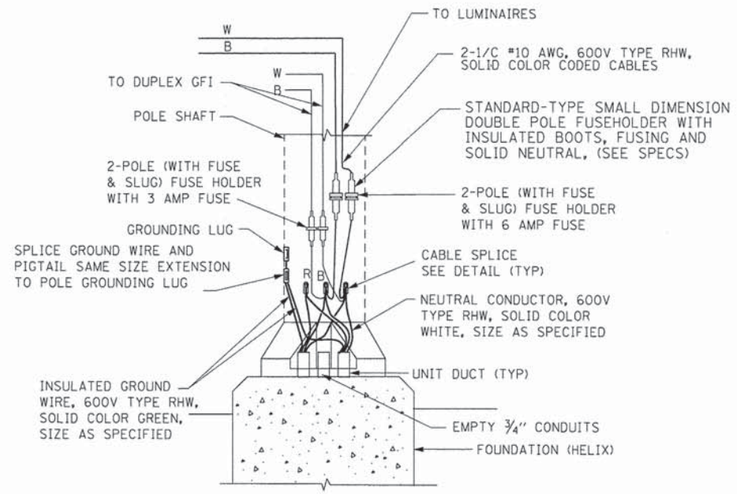


POLE BASE WIRING DIAGRAM
SINGLE MAST ARM

N.T.S

TRACER CABLE #14 IC SHALL BE INCLUDED IN THE UNIT DUCT AT NO ADDITIONAL COST. TRACER CABLE SHALL BE SPLICED IN POLES (WITH WIRE NUT) AND GROUNDED AT ENDS. TRACER WIRE SHALL BE CONNECTED TO POLE GROUND ONLY IN POLES AT END OF RUNS. IN REMAINING POLES, TRACER WIRE SHALL BE SPLICED AT UPPER HANDHOLE AND ROUTED THROUGH AND INTO LIGHTING CABINET UNGROUNDED.



DECORATIVE POLE BASE WIRING DIAGRAM

N.T.S

RLP-05

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
MISCELLANEOUS ELECTRICAL DETAILS AND WIRING DIAGRAM

SCALE: NTS | SHEET NO. 5 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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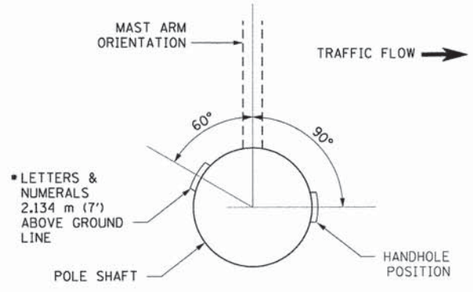
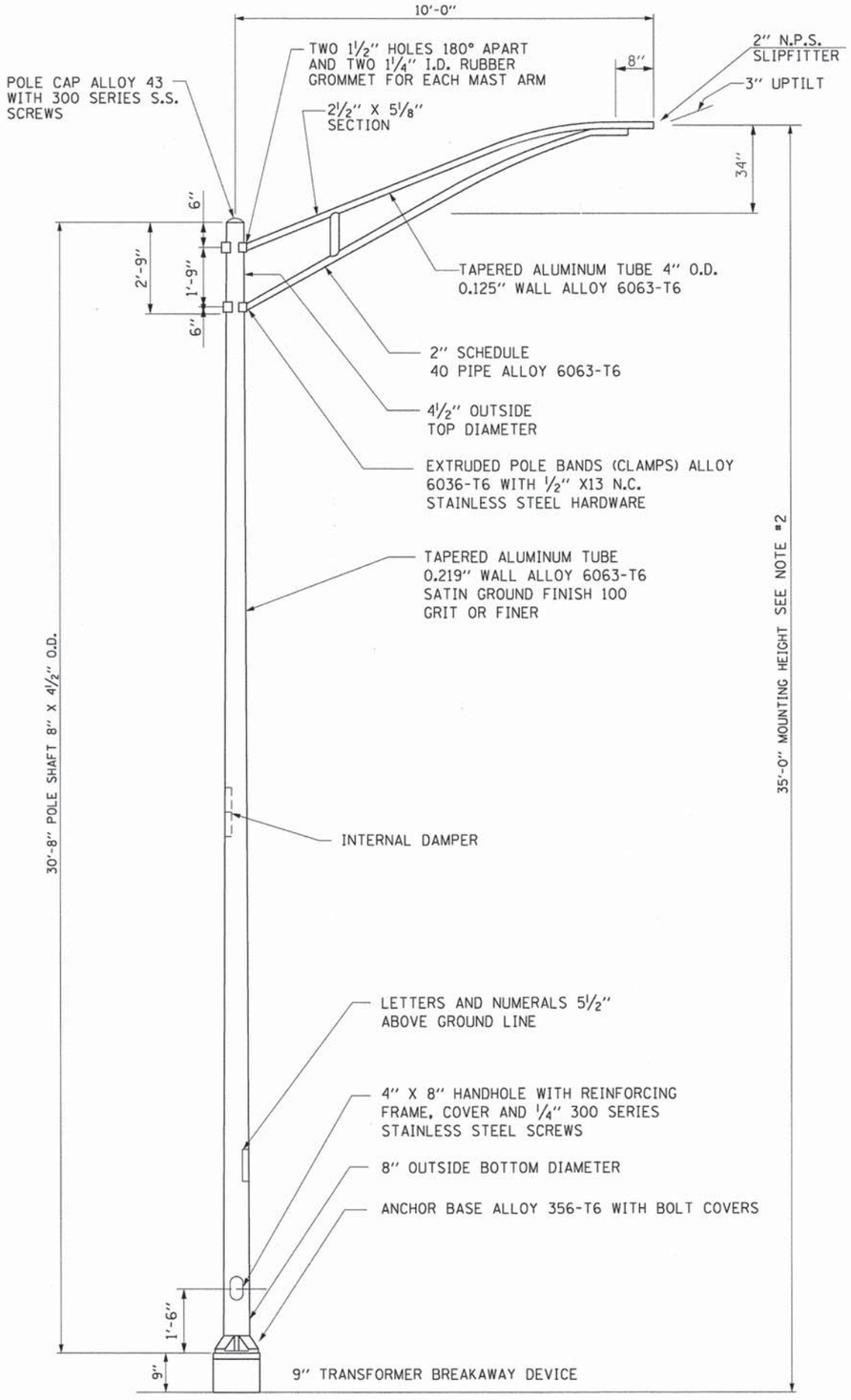
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

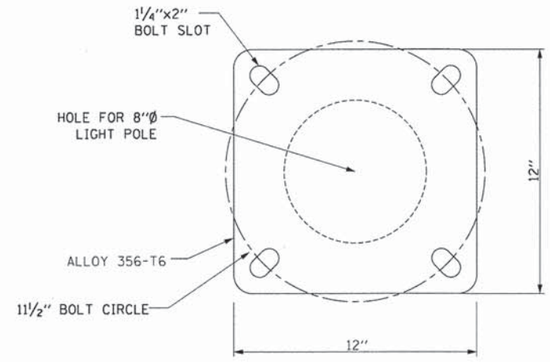


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

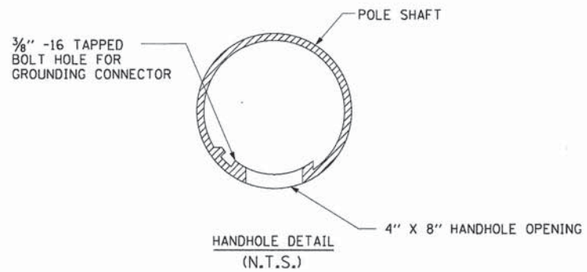


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE TRANSFORMER BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T & B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



LIGHT POLE BASE PLATE DETAIL
11½INCH BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

RLP-06

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ALUMINUM LIGHT POLE 35'-0" MOUNTING HEIGHT AND DETAILS

SCALE: NTS | SHEET NO. 6 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 63870		
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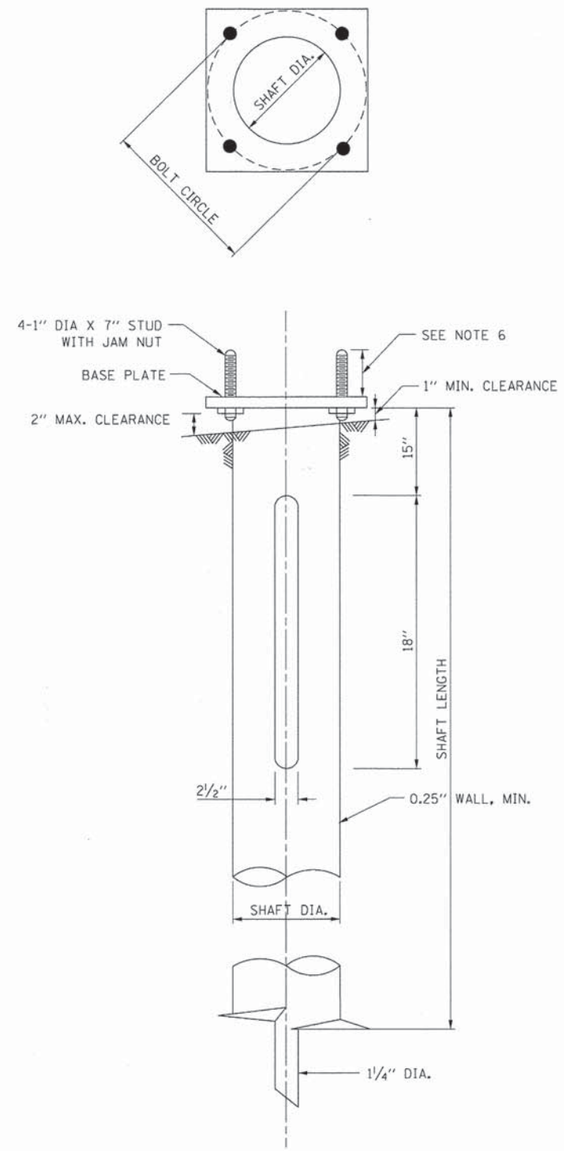

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASE PLATE
30 FT.	11½"	8⅝"	6 FT.	12"X12"X1"
31 FT. TO 35 FT.	11½"	8⅝"	6 FT.	12"X12"X1"
36 FT. TO 40 FT.	15"	8⅝"	6 FT.	15"X15"X1¼"
41 FT. TO 45 FT.	15"	8⅝"	6 FT.	15"X15"X1¼"
46 FT. TO 50 FT.	15"	10"	8 FT.	15"X15"X1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	METAL REQUIREMENT
BASE PLATE	AASHTO M 270M, GRADE 36 (M 270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFER 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291 (ASTM A 563) GRADE DH OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVANIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN ¼" (6.35 MM) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 nm) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASE PLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASE PLATE SHALL BE STAMPED WITH THE MANUFACTURER'S NAME AND DATE OF MANUFACTURE.

RLP-07

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
LIGHT POLE FOUNDATION, METAL

SCALE: NTS | SHEET NO. 7 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 63870		
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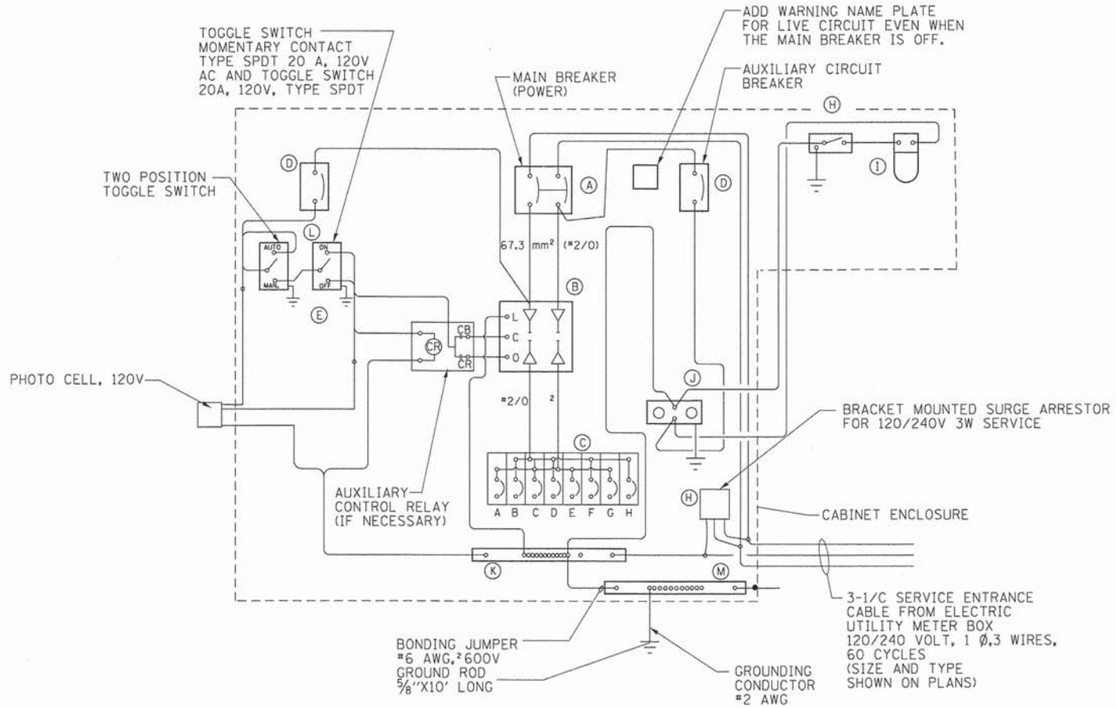
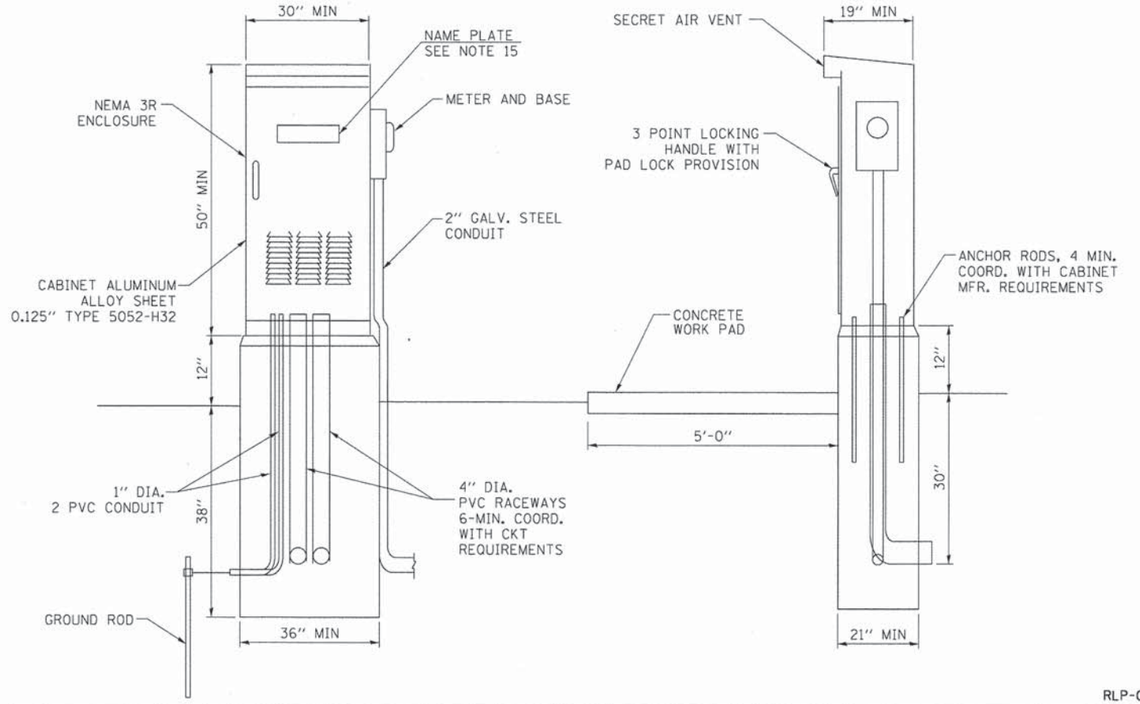


WIRING DIAGRAM

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 200AMP. FRAME, 150AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	LIGHTING CONTACTOR, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100AMP. FRAME 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 V., 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP.
E	1	PHOTECELL, 120V
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 mm (1/4") X 25.4 (1") 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.
N	1	SURGE ARRESTOR



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
4. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
5. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
6. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
7. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
8. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
9. CABINETS SHALL BE PRIMED AND PAINTED WITH TWO COATS OF ALKYD BASE ENAMEL. THE FINISH COLOR SHALL BE BLACK.
10. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
11. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
    R = RED BL = BLUE W = WHITE
    B = BLACK Y = YELLOW G = GREEN
12. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
13. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
14. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
15. 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "MCDOT" UNLESS OTHERWISE SPECIFIED.
16. SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.
17. CORBIN LOCK SHALL BE INSTALLED ON CABINET DOORS.

RLP-08

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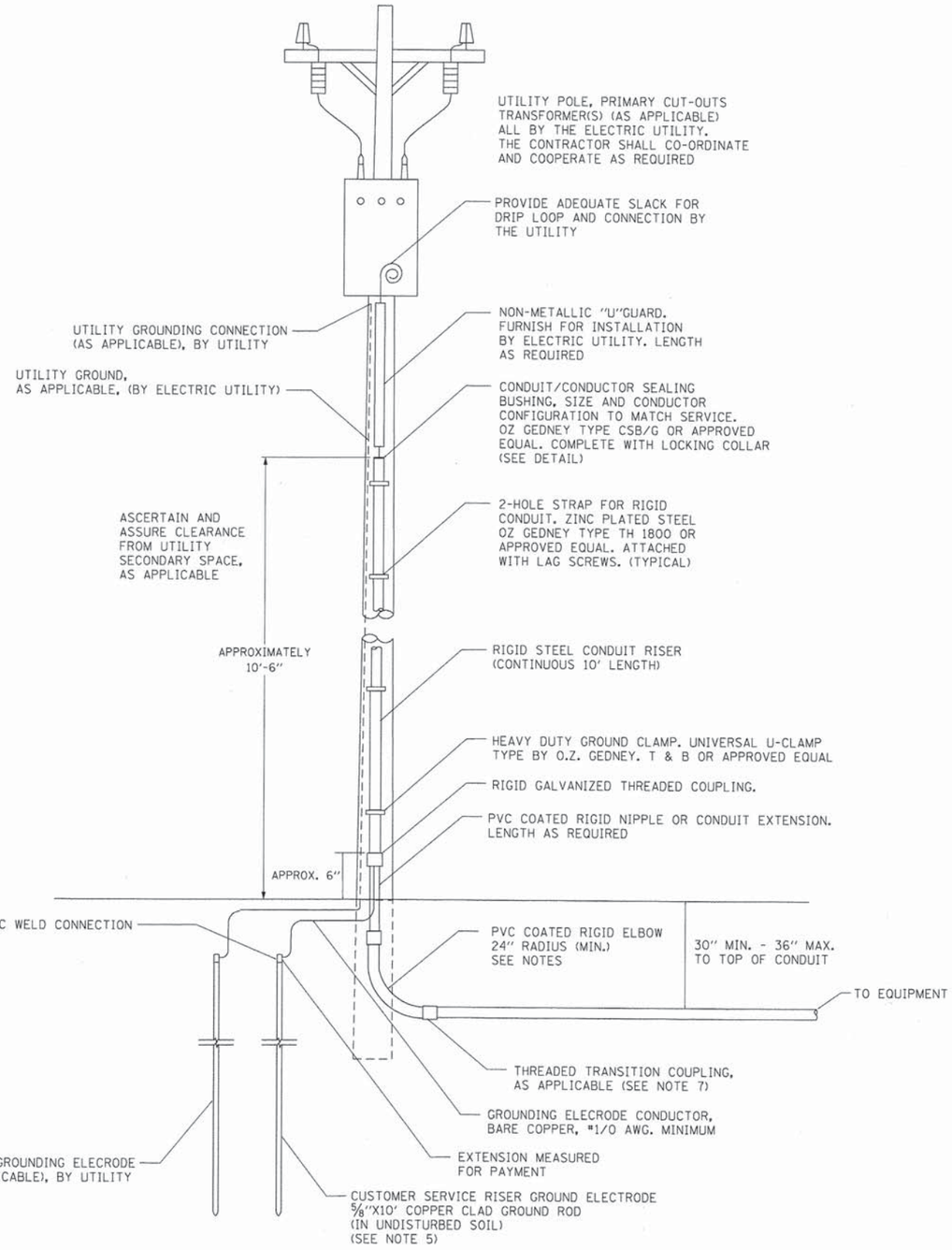
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
WIRING DIAGRAM AND LIGHTING CONTROLLER

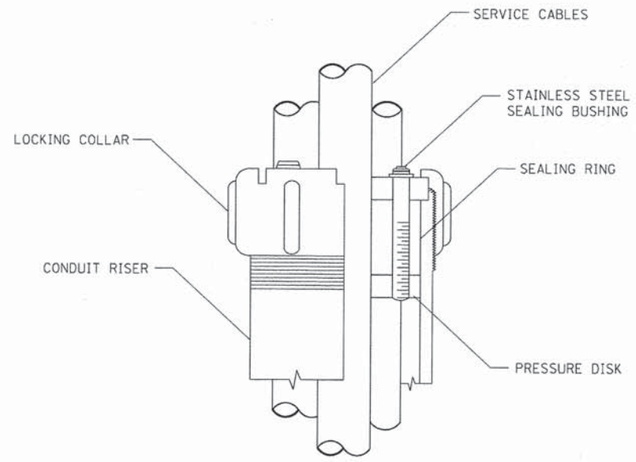
SCALE: NTS | SHEET NO. 8 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	68
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SERVICE VOLTAGE SHALL BE 120/240V AS INDICATED ON SHEET RLP-03.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRIC UTILITY SERVICE INSTALLATION.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACK FILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
7. THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
8. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

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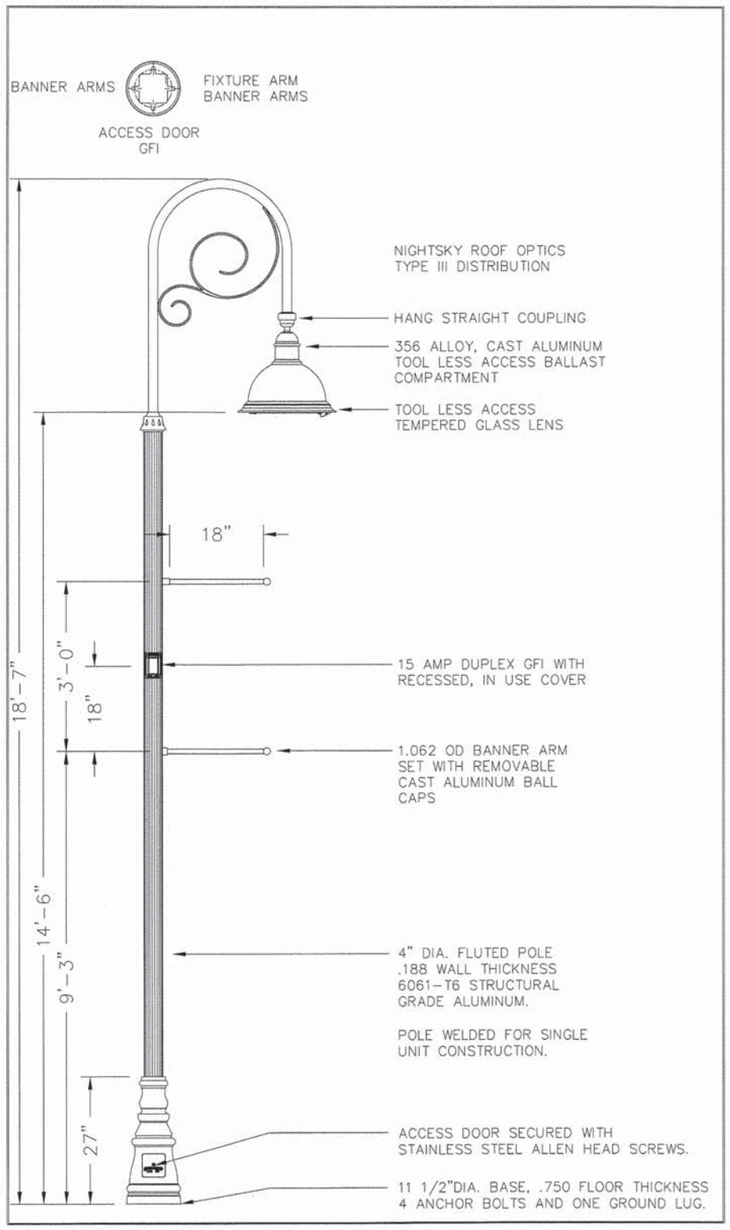
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ELECTRIC SERVICE INSTALLATION ABOVE GROUND (BE-220)

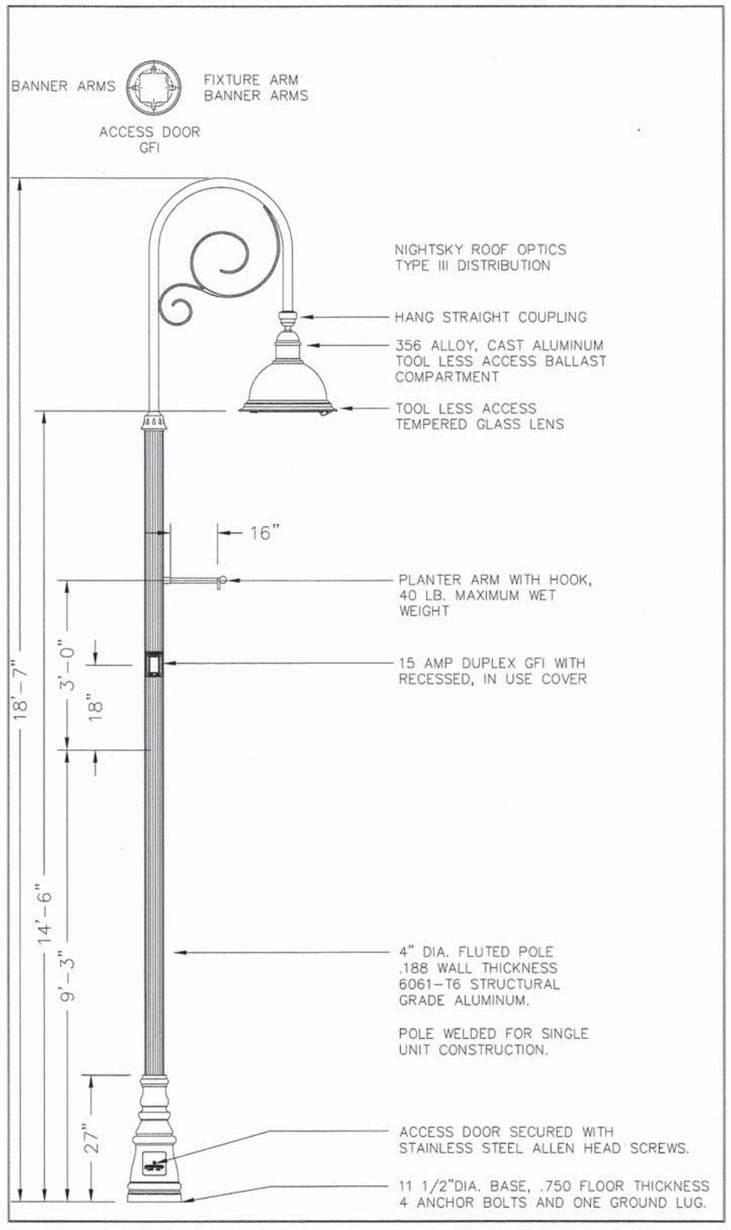
SCALE: NTS | SHEET NO. 9 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	69
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RLP-09



ORNAMENTAL LIGHT UNIT WITH BANNER



ORNAMENTAL LIGHT UNIT WITH PLANTER

ORNAMENTAL LIGHT UNIT, COMPLETE DETAIL

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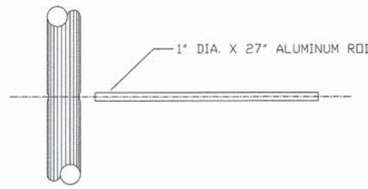
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
ORNAMENTAL LIGHTING UNITS

SCALE: NTS | SHEET NO. 10 OF 12 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	70
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

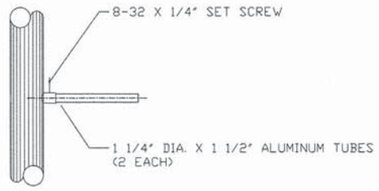
STEP: 1



DRILL 1" DIA. HOLE AT DESIRED LOCATION FOR THE PLANTER ARM ON THE POLE. SLIDE 1" DIA. ALUMINUM ROD THROUGH HOLE.

INSTALLATION DRAWING FOR HOOKED PLANTER ARM

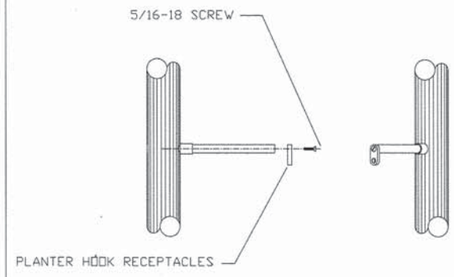
STEP: 2



SLIDE 1 1/4" DIA. ALUMINUM TUBES AROUND THE 1" DIA. ALUMINUM ROD ON BOTH SIDES. BUTT TUBES AGAINST POLE SHAFT. ENSURE THAT EQUAL DISTANCE OF THE ROD IS EXTRUDING FROM BOTH SIDES OF THE POLE. SECURE TUBES AND ROD POSITION BY TIGHTENING 1/4" SET SCREWS.

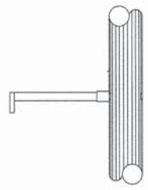
INSTALLATION DRAWING FOR HOOKED PLANTER ARM

STEP: 3



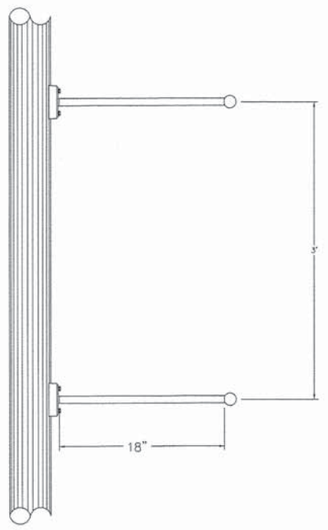
PLANTER HOOK RECEPTACLES ARE SCREWED INTO THE 1" ALUMINUM ROD.

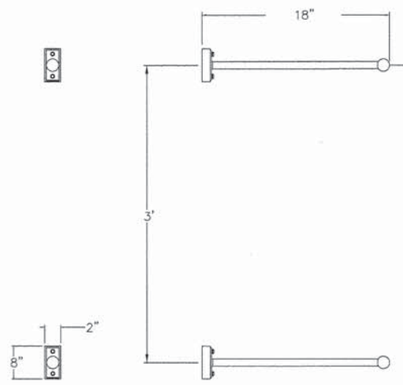
INSTALLATION DRAWING FOR HOOKED PLANTER ARM



INSTALLATION DRAWING FOR HOOKED PLANTER ARM

PLANTER ARM INSTALLATION





THE (2) 7/8" DIA. BANNER ARMS ARE 37" APART FROM THE TOP OF THE UPPER ARM TO THE BOTTOM OF THE LOWER ARM

SET FOR 18" X 36" BANNERS OR ADVISE

TO FIELD INSTALL TO FLAT SURFACE

BANNER ARM INSTALLATION

NOTES:

1. BANNER AND PLANTER ARMS SHALL MEET AASHTO DESIGN CRITERIA (LOADING AND CALCULATION REQUIREMENTS) 90 MPH-3 SEC WIND SPEEDS.

RLP-11

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

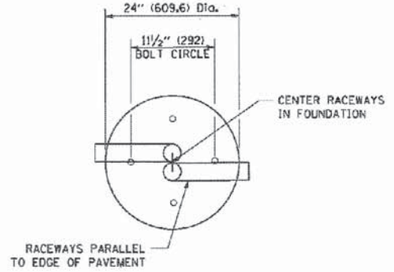
LIGHTING PLAN DETAILS

SCALE: NTS | SHEET NO. 11 OF 12 SHEETS | STA. | TO STA.

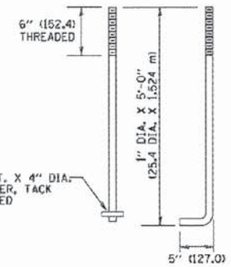
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	71
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

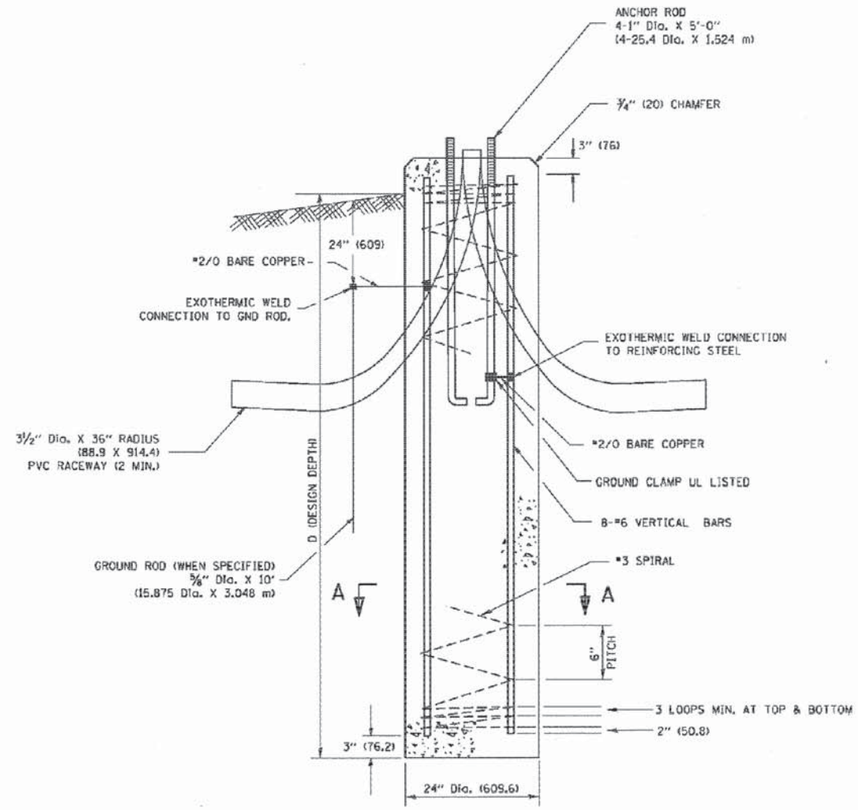
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND ϕ = 34°	9'-6" (2.90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



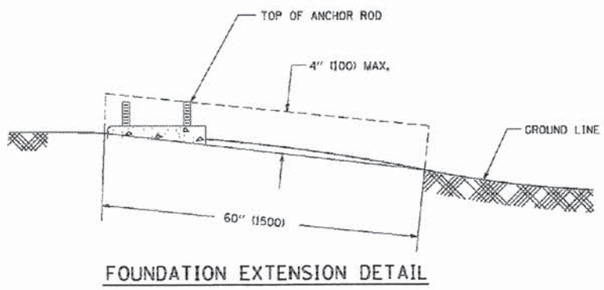
TOP VIEW



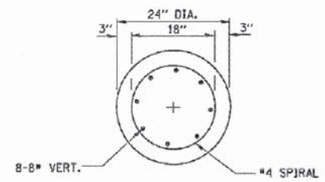
ANCHOR BOLT DETAIL



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN
DETAILS

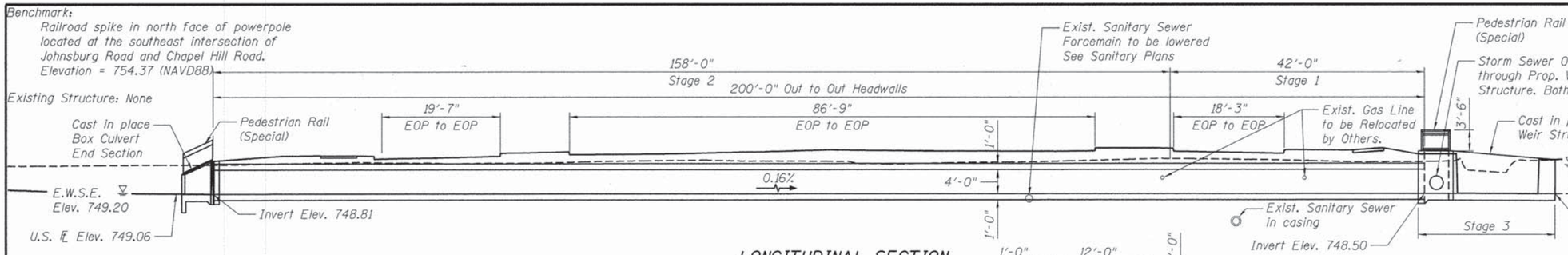
SCALE: NTS | SHEET NO. 12 OF 12 SHEETS | STA. | TO STA.

RLP-12

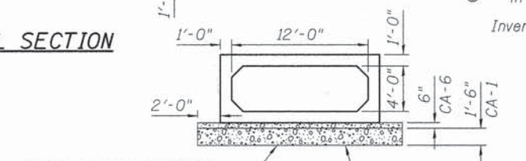
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	72
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Benchmark:
Railroad spike in north face of powerpole located at the southeast intersection of Johnsburg Road and Chapel Hill Road.
Elevation = 754.37 (NAVD88)

Existing Structure: None



LONGITUDINAL SECTION



SECTION THRU PRECAST BARREL

The Proposed Culvert will be constructed during Stage 1 and Stage 2 Construction, according to the Roadway Maintenance of Traffic plan.

Existing 48" W x 20" H culvert to remain in service until flow can be diverted to new structure. Portions not under new pavement or in conflict with utilities shall be removed. The remainder shall be completely filled with Controlled Low Strength Material.

DESIGN SCOUR TABLE

Design Scour Elevation (FT)	D.S. Invert	U.S. Invert
	745.81	748.50

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

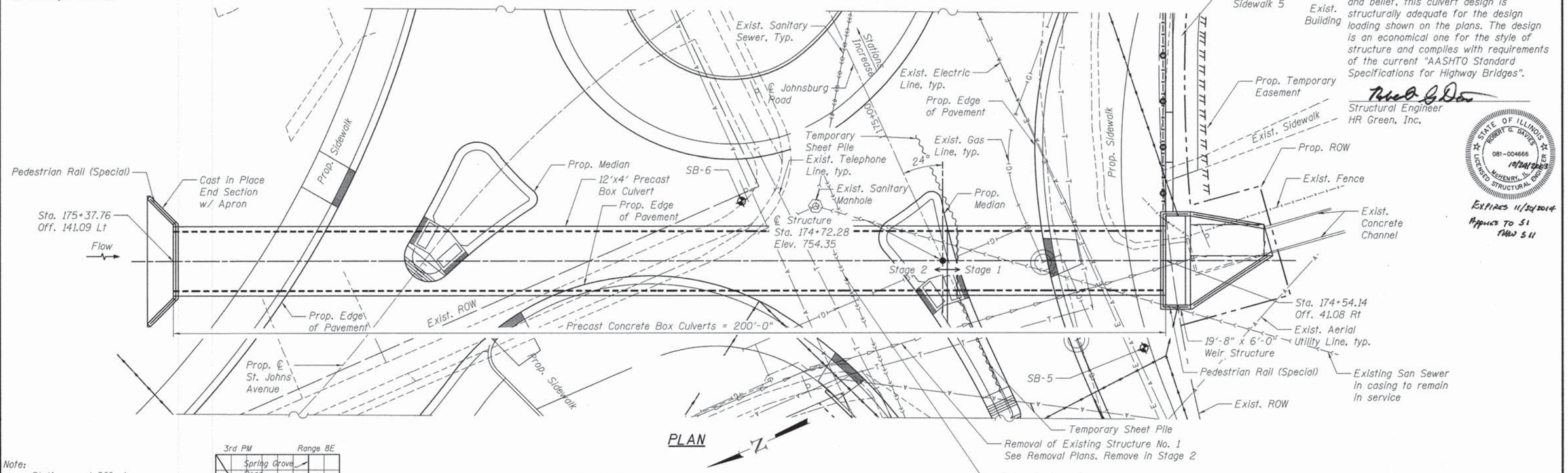
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93

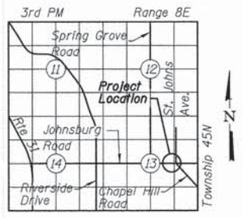
Allow 50#/sq. ft. for future wearing surface.

INDEX OF SHEETS



PLAN

Note:
Stations and Offsets are given using Johnsburg Road alignment



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.417 sq.mi. Low Grade Elev. 755.50 @ Sta. 174+35.72

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	150	N/A	48	752.8	Over Road	0.5	Over Road	753.3
Design	30	210	N/A	48	753.4	Over Road	0.9	Over Road	754.3
Base	100	275	N/A	48	753.9	Over Road	1.3	Over Road	755.2
Overtopping									
Max. Calc.	500	365	N/A	48	754.5	Over Road	2.1	Over Road	756.6

To the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Structural Engineer
HR Green, Inc.

STATE OF ILLINOIS
ROBERT G. DAVIES
081-004666
19/24/2014
McHENRY, IL
LICENSED STRUCTURAL ENGINEER

EXPIRES 11/30/2014
APPLIES TO S1 THRU S11

GENERAL PLAN AND ELEVATION
CULVERT
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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Illinois Professional Design Firm # 184-001322
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PLOT SCALE = NTS	DRAWN - WJH	REVISED -
PLOT DATE = 10/23/2013	CHECKED - 10/23/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-01 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0168	05-00314-00-WR	McHENRY	120	73
		CONTRACT NO. 63870		
		ILLINOIS FED. AID PROJECT	#FEDPROJNO#	

GENERAL NOTES

1. Precast concrete culverts, 12'x4' shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of ASTM C 1577.

   The minimum precast concrete strength shall be 5,000 psi.

   Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

   Fill over the culvert varies from 9½" to 2'-4"

2. BOX CULVERT END SECTION shall be paid for as noted in Article 540.08, and The Contract Unit Price for BOX CULVERT END SECTION shall include all porous granular bedding material, cast in place wingwalls, headwalls, and aprons, cast in place portions between cells, reinforcement, excavation, backfill, and preformed joint filler.

3. Cast-in-Place Weir Structure shall be paid for at the contract unit prices for; CONCRETE STRUCTURES and REINFORCEMENT BARS EPOXY COATED.

4. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502. Maintaining stream flow shall be included in the unit price for Precast Concrete Box Culverts, 12'x4'.

5. Reinforcement bars shall conform to the requirements of ASTM A 760 Gr 60. See Special Provisions.

6. Reinforcement bars designated (E) shall be epoxy coated

7. Diversion and Construction activities shall not be permitted to cause water levels upstream to rise more than 2'-0" above the normal pool, or above elevation = 751.20.

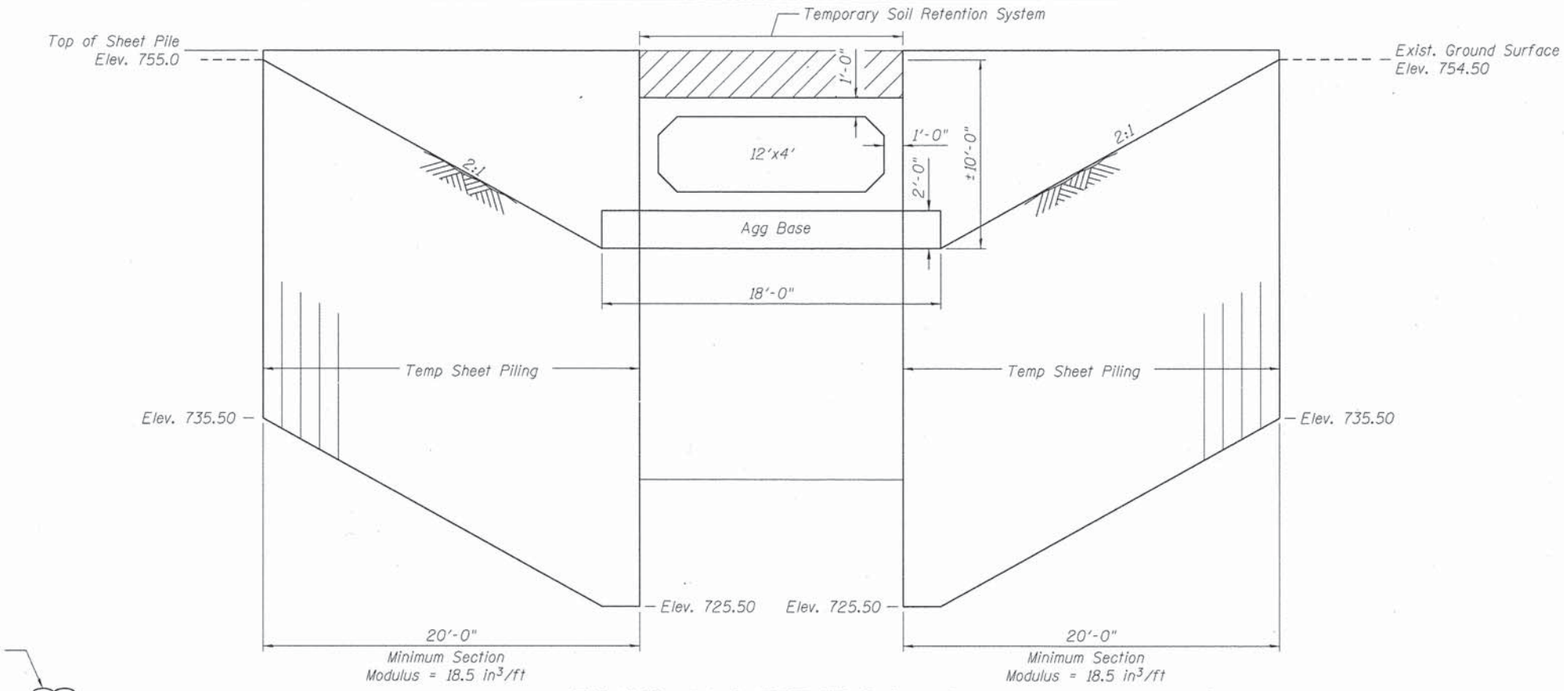
8. Cover for cast in place concrete from the face of Concrete to Reinforcement bars shall be 3" from surfaces formed against earth and 2" for all other surfaces unless otherwise shown.

9. Concrete fillets shall consist of unreinforced Class SI concrete. Construct after apron and walls. Use bonded construction joint (503.09 (b)) between fillet and apron wall surfaces.

10. Chloride containing admixtures shall not be used for Class SI concrete.

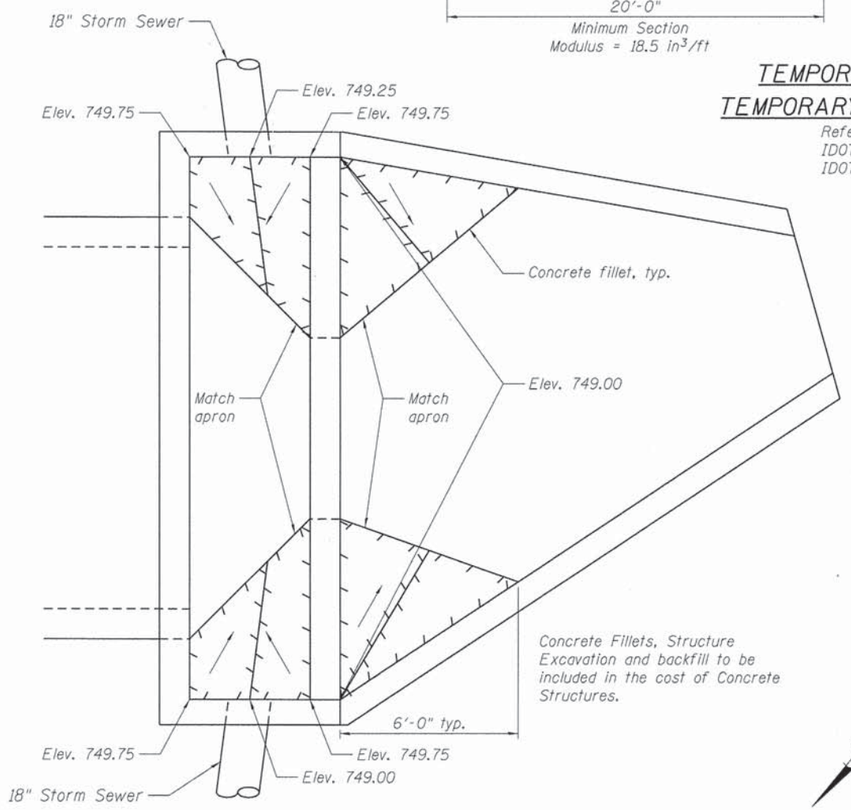
11. All exposed surfaces of the Cast in Place End Section and the Weir Structure shall be finished with a Rubbed Finish according to Article 503.15 (b).

12. Storm sewer penetrations must be coordinated with Drainage and Utility Plan and adjusted, if necessary.



TEMPORARY SHEET PILING AND TEMPORARY SOIL RETENTION SYSTEM

Reference:
IDOT Bridge Manual, Chapter 3.13.1
IDOT Design Guides, Chapter 3.13.1



WEIR CONCRETE FINISHING DETAIL

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Pedestrian Rail (Special)	Foot	86
Box Culvert End Section, Culvert No. 1	Each	1
Precast Concrete Box Culverts, 12'x4'	Foot	200
Temporary Sheet Piling	Sq. Ft.	1,000
Concrete Structures	Cu. Yd.	25
Reinforcement Bars Epoxy Coated	Pound	3,510
Structure Excavation	Cu. Yd.	910
Temporary Soil Retention System	Sq. Ft.	32

Total Bill of Material for retaining wall shown separately on SC-08.

GENERAL NOTES, WEIR CONCRETE FINISHING DETAIL & BILL OF MATERIALS
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-02 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0168	05-00314-00-WR	McHENRY	120	74
		CONTRACT NO. 63870		
	ILLINOIS FED. AID PROJECT	$FEDPROJNO$		

SUGGESTED STAGE CONSTRUCTION SEQUENCE: PRECAST CONCRETE BOX CULVERT #1, END SECTION AND WEIR STRUCTURE

Stage 1

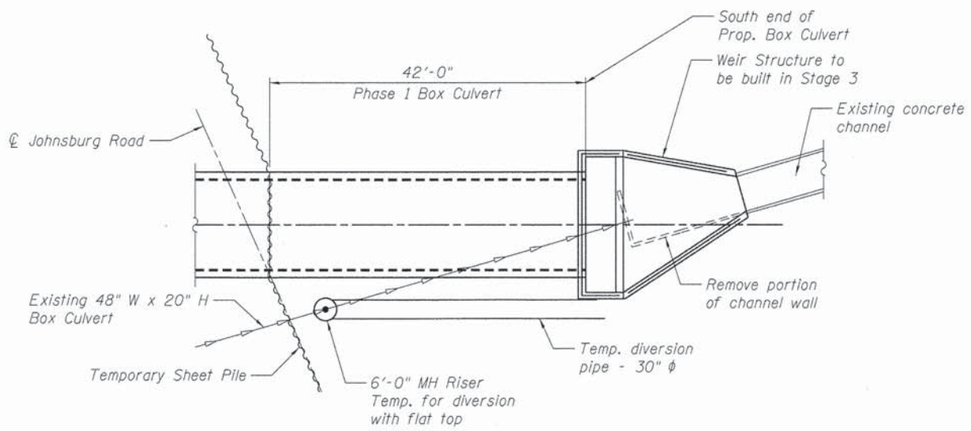
1. Divert traffic to the north as shown in Maintenance Of Traffic Plan.
2. Drive temporary sheetpile at stage construction line.
3. Construct 30 inch diameter temporary diversion pipe and manhole. Divert flow from existing 48" x 20" box culvert and remove culvert to south of stage construction line. Cost included under REMOVE EXISTING STRUCTURE.
4. Excavate, place bedding and set the southmost 42 linear feet of Precast Concrete Box Culvert.

Stage 2

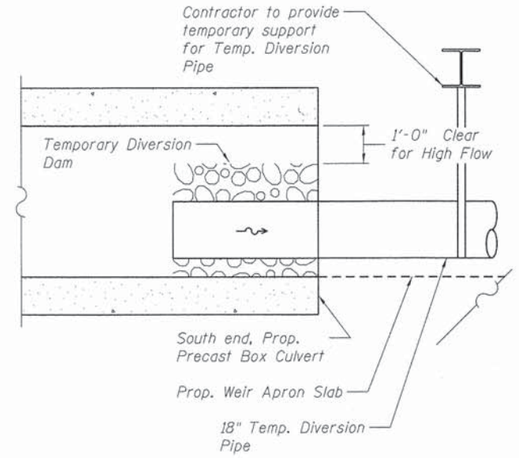
1. Backfill over box culvert, construct temporary pavement and move traffic to south as shown in the Maintenance Of Traffic Plan.
2. Excavate, place bedding and set the remaining 158 linear feet of Precast Concrete Box Culvert.
3. Construct Box Culvert End Section (North End).
4. Place temporary diversion dam and 18 inch diameter diversion pipe inside south end of new culvert as shown on Detail 2A. Temporary diversion dam or diversion system shall be a method approved by the local Soil and Water Conservation District and consist of sandbags, or another temporary diversion system approved by the Engineer. Cost included under REMOVE EXISTING STRUCTURE. Note that design of the 18 inch pipe, suspension for the pipe and the temporary diversion dam shall be completed by the Contractor and details of same shall be submitted to the Engineer for approval.
5. Grade upstream detention area and divert stream flow to new box culvert and 18 inch temporary diversion pipe.
6. Fill the existing box culvert with Controlled Low Strength Material or remove and backfill where this will not interfere with active utilities or roadway. Cost included under REMOVE EXISTING STRUCTURE.
7. Remove temporary sheet pile.

Stage 3

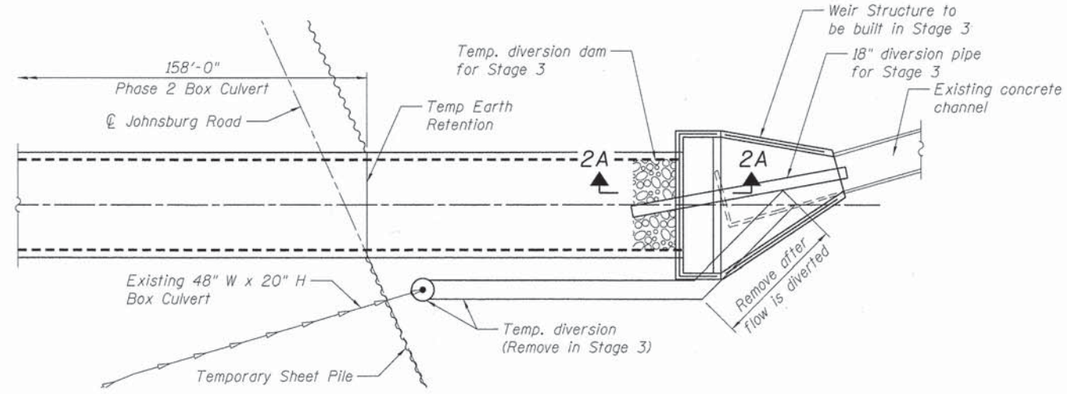
1. Short term closure; see the Maintenance of Traffic Plan.
2. Remove the 30 inch temporary diversion pipe. Remove the temporary manhole. Cost included under REMOVE EXISTING STRUCTURE.
3. Construct the weir structure apron slab. Pour at least 6" of wingwalls and weir wall with apron.
4. Remove 18" temporary diversion pipe and supports. Remove temporary diversion dam. Cost included under REMOVE EXISTING STRUCTURE.
5. Construct remainder of wingwalls, headwall, and weir. Connect storm sewer to weir structure. Complete retaining walls and construct roadway and sidewalks. Add railings, etc.



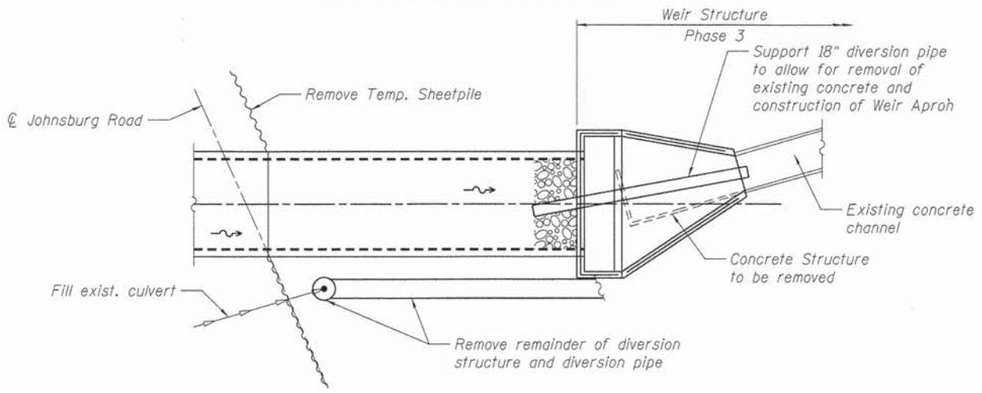
STAGE 1 CONSTRUCTION



DETAIL 2A



STAGE 2 CONSTRUCTION



STAGE 3 CONSTRUCTION

SUGGESTED CONSTRUCTION SEQUENCE
CULVERT
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY

COMPANY NAME:
PROJECT CONTACT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-02A OF SC10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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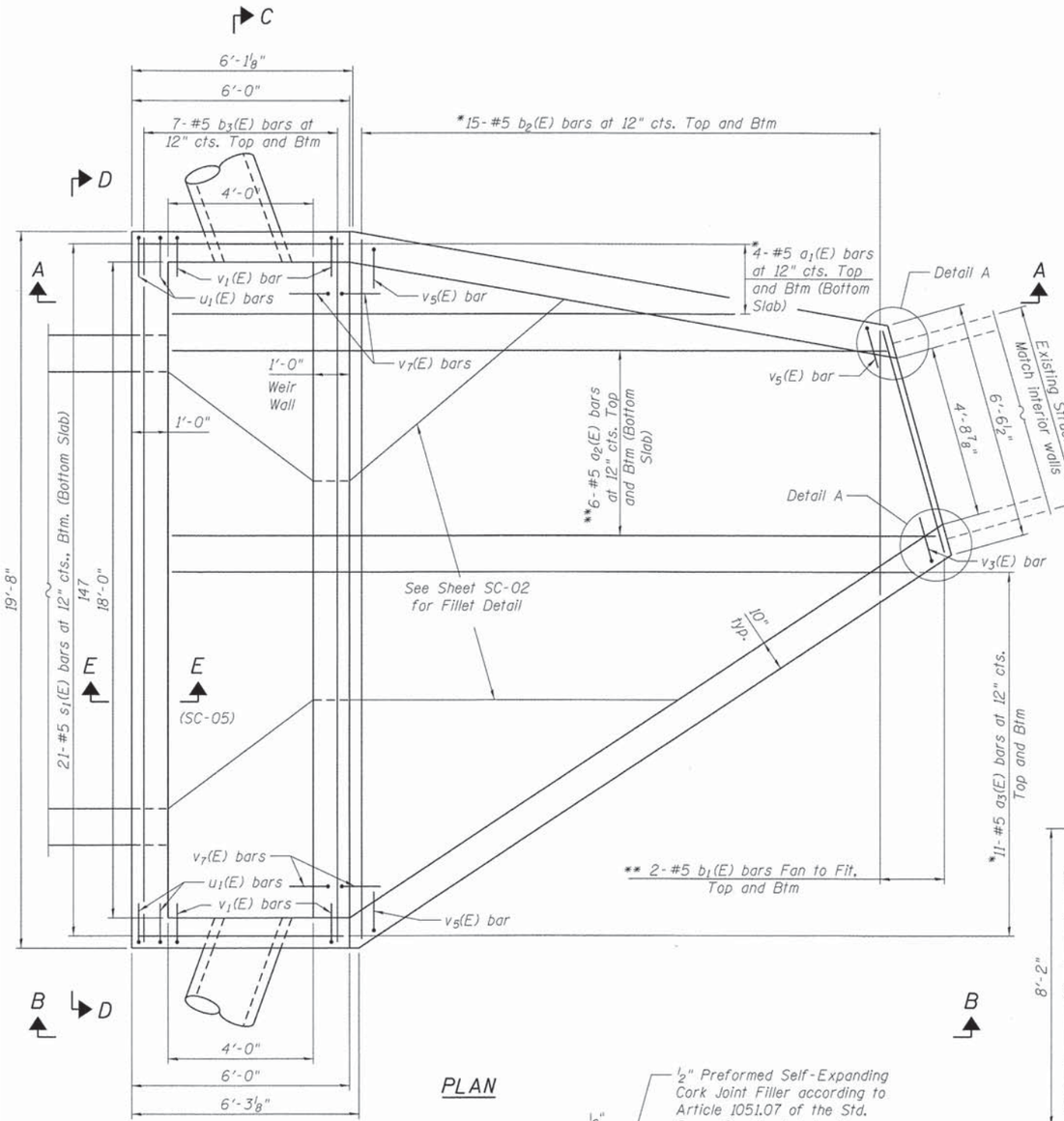
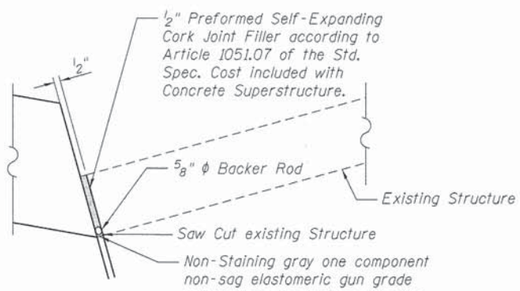
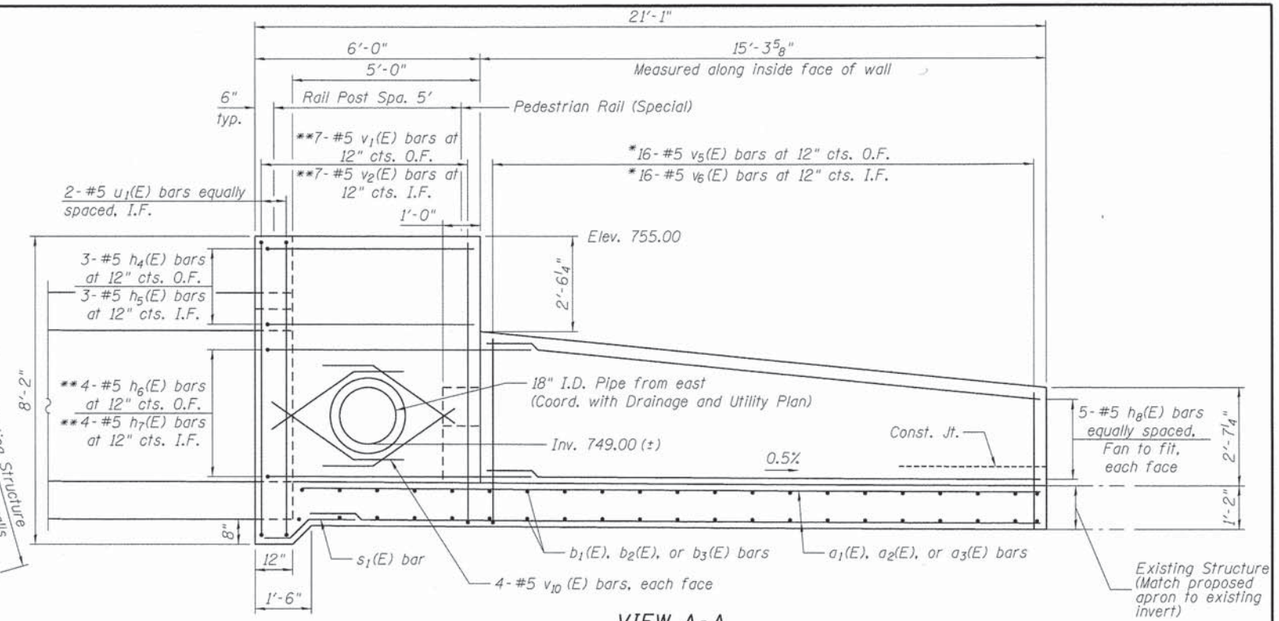
		CONTRACT NO. 63870		
	ILLINOIS FED. AID PROJECT	$FEDPROJNO$		



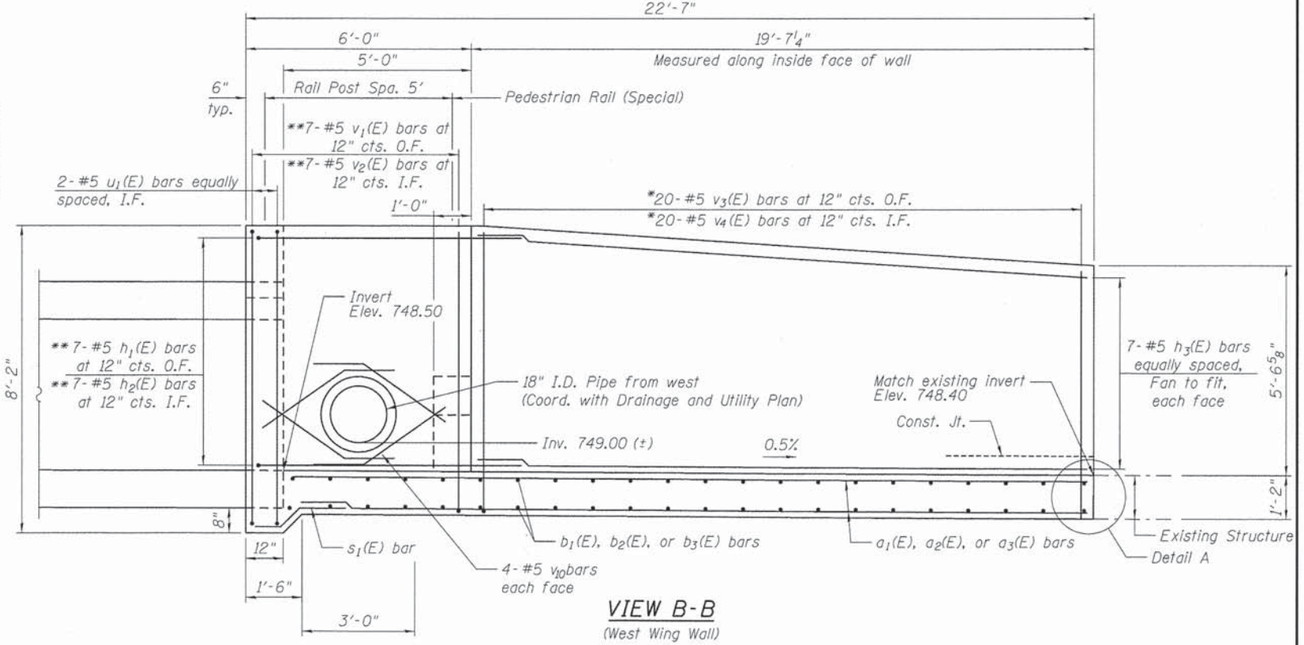
PLAN



DETAIL A



VIEW A-A
(East Wing Wall)



VIEW B-B
(West Wing Wall)

* See Cut Diagram
** Cut to fit

WEIR STRUCTURE DETAILS
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-03 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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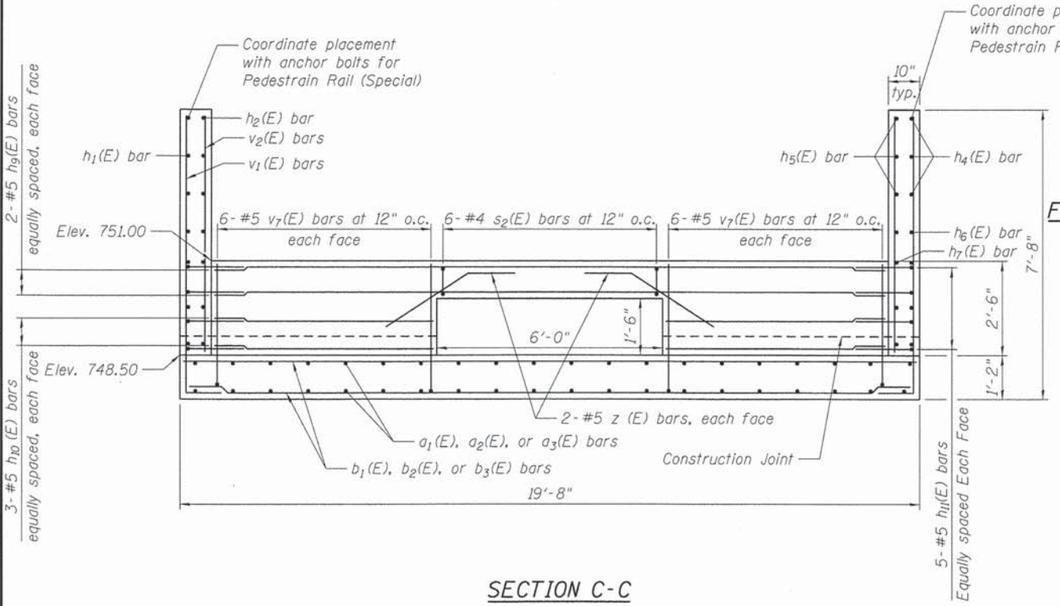
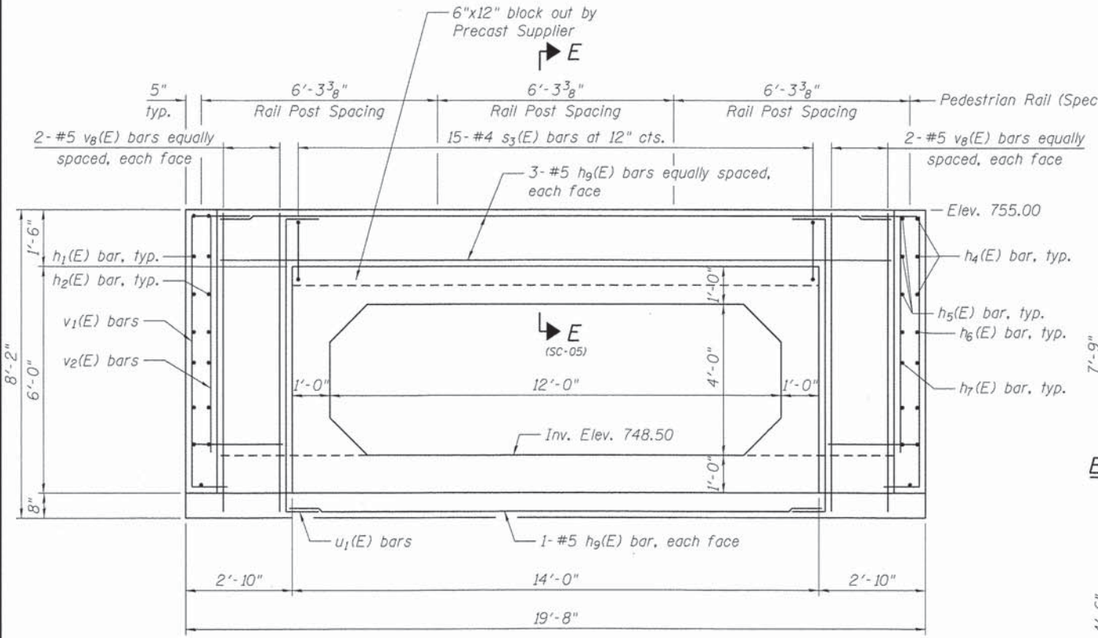
		CONTRACT NO. 63870		
		ILLINOIS FED. AID PROJECT	$FEDPROJNO$	



SECTION C-C



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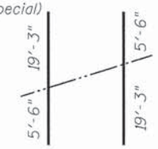
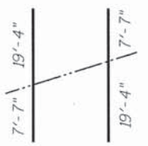
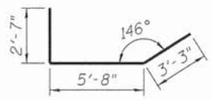


FIELD CUTTING DIAGRAM
BAR $a_1(E)$

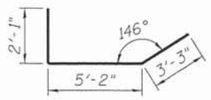
FIELD CUTTING DIAGRAM
BAR $a_3(E)$



FIELD CUTTING DIAGRAM
BAR $b_2(E)$



BAR $h_1(E)$



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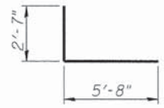
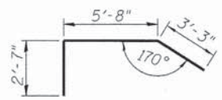
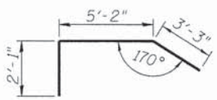


BAR $h_4(E)$

BAR $h_5(E)$

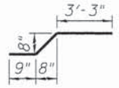


BAR $h_6(E)$

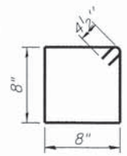


BAR $h_7(E)$

BAR $h_{11}(E)$



BAR $s_1(E)$



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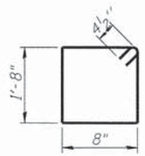

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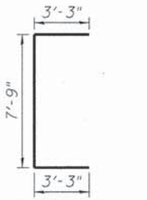
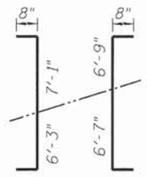


BAR $u_1(E)$

BAR $v_1(E)$



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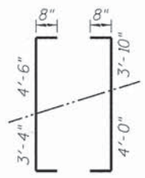
BAR $v_3(E)$

FIELD CUTTING DIAGRAM
BAR $v_4(E)$



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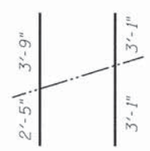
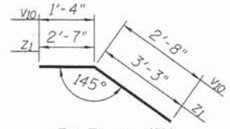
BAR $v_5(E)$



FIELD CUTTING DIAGRAM
BAR $v_6(E)$

BAR $v_7(E)$



BAR $v_{10}(E)$
BAR $z_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_1(E)$	4	# 5	24'-9"	
$a_2(E)$	12	# 5	21'-1"	
$a_3(E)$	11	# 5	25'-1"	
$b_1(E)$	4	# 5	7'-1"	
$b_2(E)$	15	# 5	26'-11"	
$b_3(E)$	14	# 5	19'-8"	
$h_1(E)$	7	# 5	11'-6"	
$h_2(E)$	7	# 5	10'-6"	
$h_3(E)$	14	# 5	19'-4"	
$h_4(E)$	3	# 5	8'-3"	
$h_5(E)$	3	# 5	7'-1"	
$h_6(E)$	4	# 5	11'-6"	
$h_7(E)$	4	# 5	10'-6"	
$h_8(E)$	10	# 5	15'-1"	
$h_9(E)$	10	# 5	17'-10"	
$h_{10}(E)$	12	# 5	5'-9"	
$h_{11}(E)$	10	# 5	6'-6"	
$s_1(E)$	21	# 5	2'-0"	
$s_2(E)$	6	#4	3'-5"	
$s_3(E)$	15	#4	5'-5"	
$u_1(E)$	2	# 5	14'-3"	
$v_1(E)$	14	# 5	7'-9"	
$v_2(E)$	14	# 5	6'-4"	
$V_3(E)$	10	# 5	14'-8"	
$v_4(E)$	10	# 5	11'-6"	
$v_5(E)$	8	# 5	9'-2"	
$v_6(E)$	8	# 5	6'-2"	
$v_7(E)$	24	# 5	4'-1"	
$v_8(E)$	8	# 5	7'-9"	
$v_9(E)$	8	# 5	2'-3"	
$v_{10}(E)$	16	# 5	4'-0"	
$z_1(E)$	4	# 5	6'-4"	
Reinforcement Bars Epoxy Coated			Pound	3,490
Concrete Structures			Cu.Yd.	25

MINIMUM BAR LAP

#5 bar = 3'-3"

WEIR STRUCTURE DETAILS
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-04 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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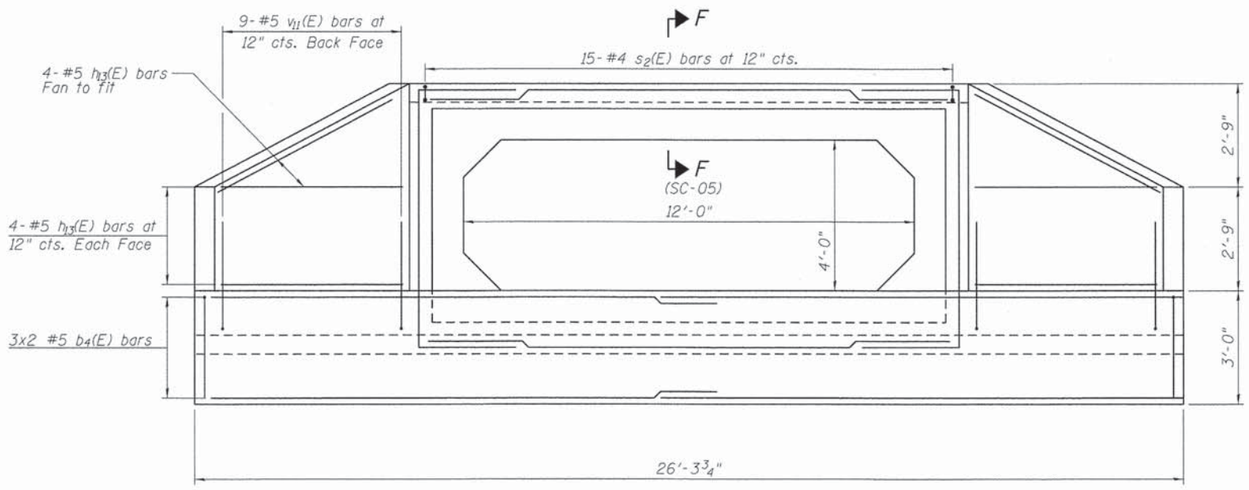
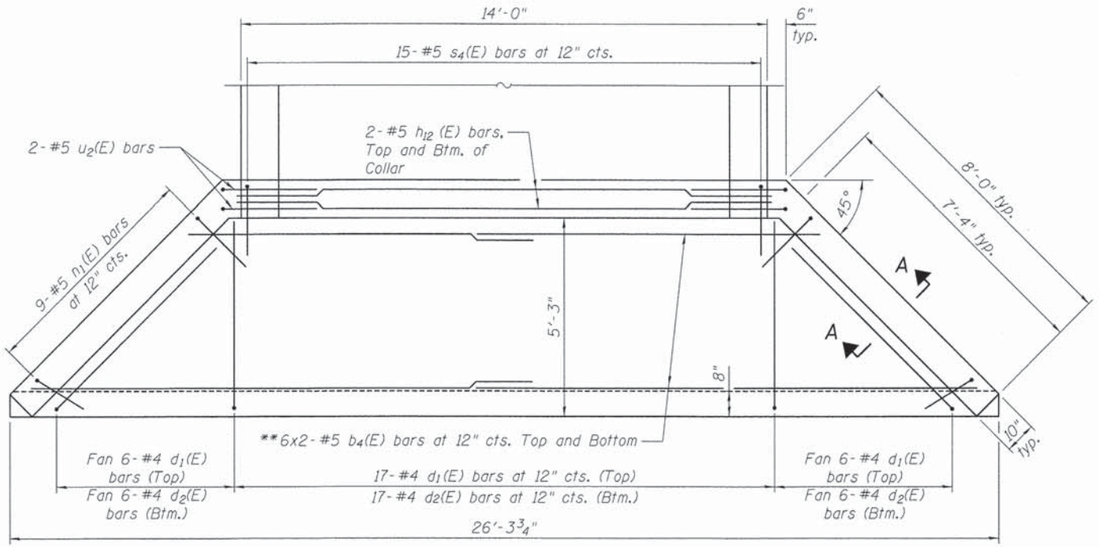
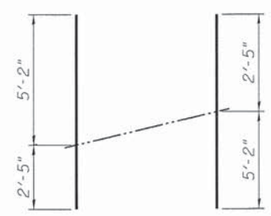


END ELEVATION



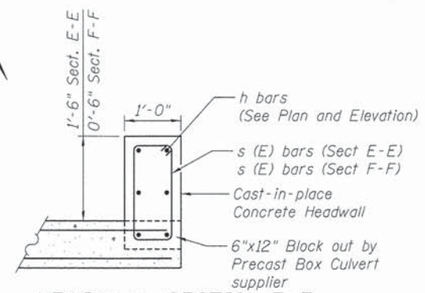
PLAN

** Increase lap to fit



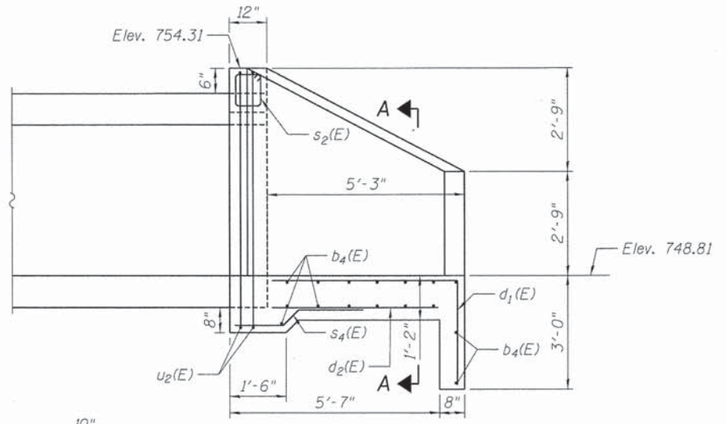
v_{11}(E) FIELD CUTTING DIAGRAM

* Order v_{11}(E) bars full length. Cut as shown and use remainder of bars in opposite wall.

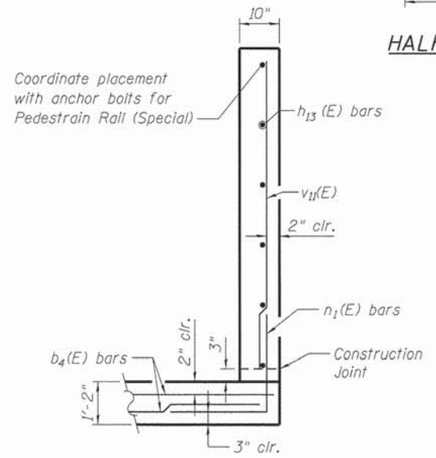


HEADWALL SECTION E-E
HEADWALL SECTION F-F

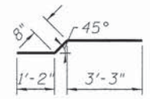
BARS u_2(E)



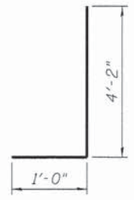
HALF SIDE ELEVATION



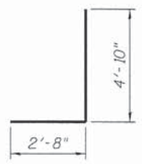
SECTION A-A



BAR s_4(E)



BAR n_1(E)



BARS d_1(E)

MINIMUM BAR LAP

#5 bar = 3'-3"

BILL OF MATERIAL FOR END SECTION

Bar	No.	Size	Length	Shape
b_4(E)	18	# 5	14'-7"	
d_1(E)	29	# 4	7'-6"	
d_2(E)	29	# 4	7'-4"	
h_{12}(E)	4	# 5	14'-8"	
h_{13}(E)	16	# 5	7'-8"	
n_1(E)	18	# 5	5'-2"	
s_2(E)	15	#4	3'-5"	
s_4(E)	15	# 5	5'-1"	
u_2(E)	4	# 5	13'-3"	
v_{11}(E)	9	# 5	7'-7"	
Box Culvert End Sections, Culvert 1			Each	1

BOX CULVERT END SECTIONS shall be paid for as noted in Article 540.08, and the Contract Unit Price for BOX CULVERT END SECTIONS shall include all porous granular bedding material, cast in place wingwalls, headwalls, and aprons, cast in place portions between cells, reinforcement, excavation, backfill, and preformed joint filler.

BOX CULVERT END SECTION
(CULVERT #1) DETAILS (NORTH END)
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 07:50 PM
FILE NAME: d0602-cul05.dgn
PLOT DRIVER: pdf.stt
PEN TABLES: standard-trans.tbl

HRGreen
HRGreen.com
Illinois Professional Design Firm # 184-001322

USER NAME = gfoutz	DESIGNED - JPG	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = NTS	DRAWN - WJH	REVISED -
PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-05 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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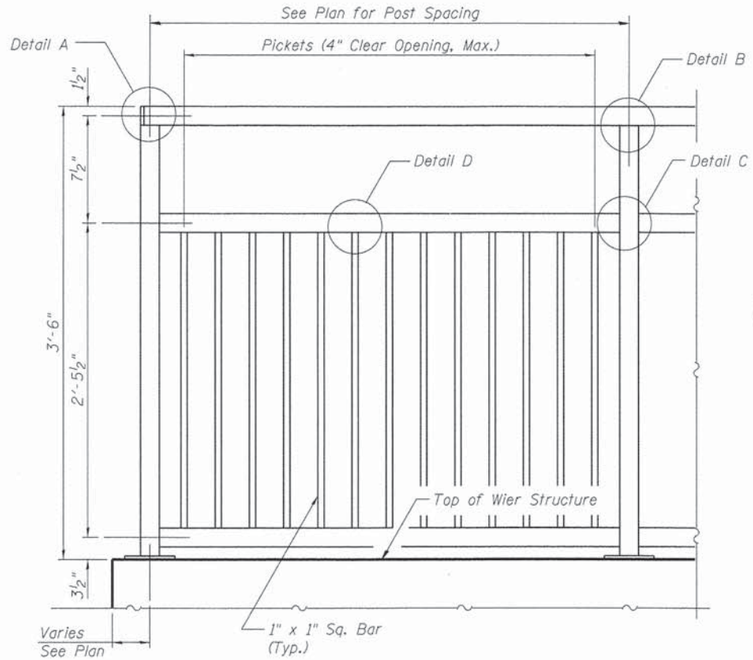
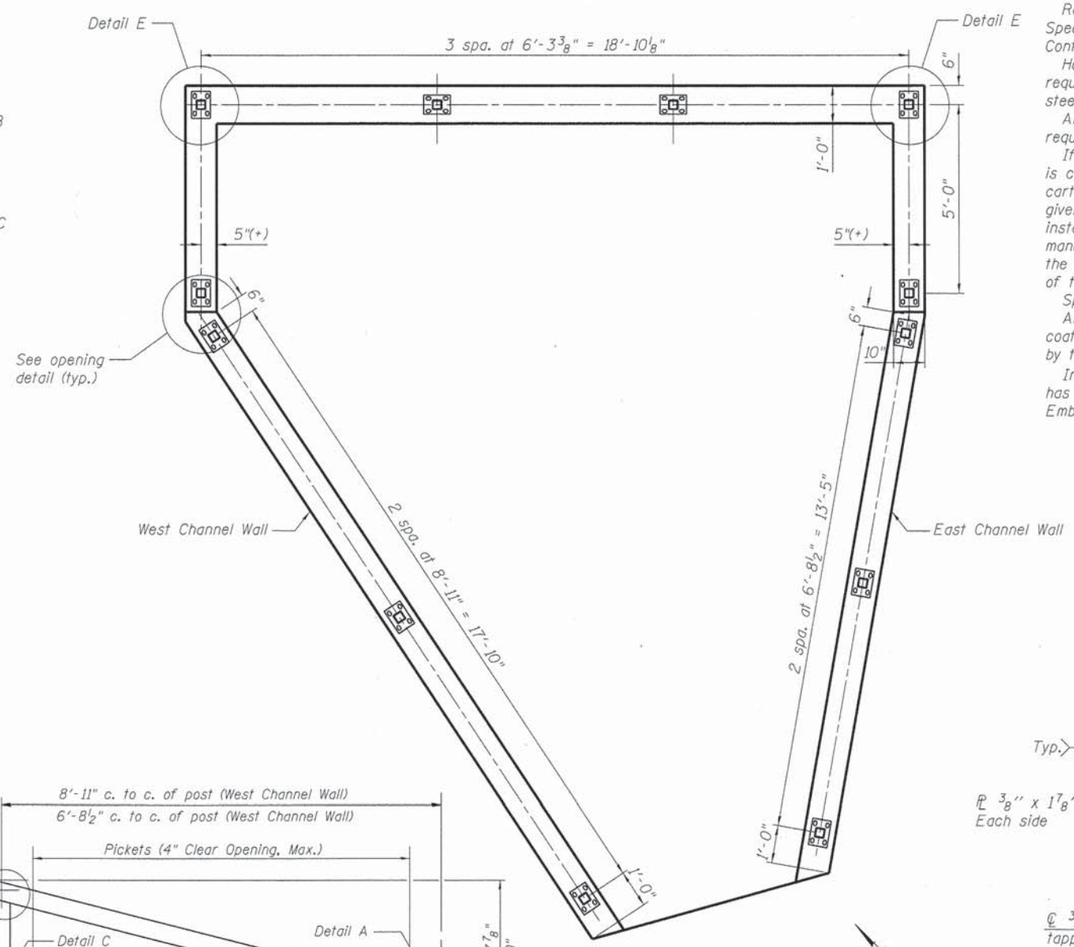
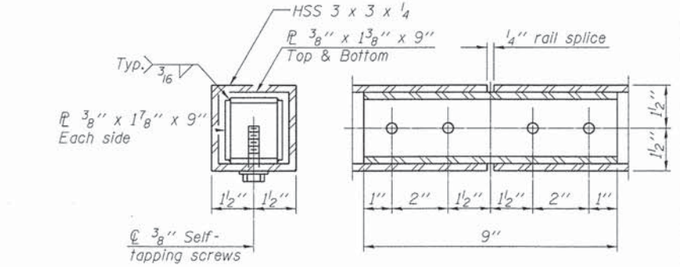
		CONTRACT NO. 63870		
ILLINOIS	FED. AID PROJECT	#FEDPROJNO#		



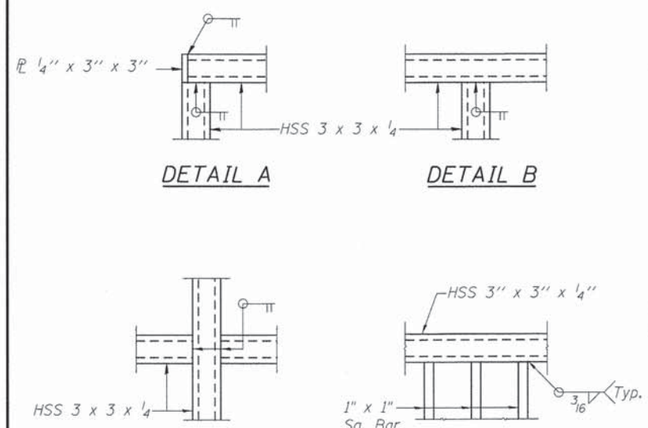
PEDESTRIAN RAIL (SPECIAL)



WEIR STRUCTURE



RAIL SPLICE (OPTIONAL)



DETAIL A

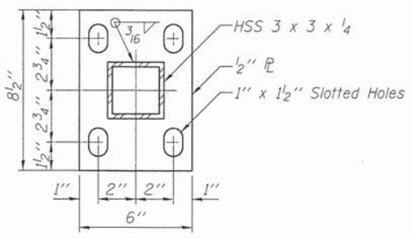
DETAIL B

DETAIL C

DETAIL D

PEDESTRAIN RAIL (SPECIAL) ON CHANNEL WALLS

DETAIL E



BASE PL

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Rail (Special)	Foot	86

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Rail (Special).

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

Space reinforcement to miss anchor rods.

All post, railing, pickets, splices, and anchor devices shall be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting ⅝" ϕ anchor rods. Embedment shall be according to the manufacturer's specifications.

RAILING DETAILS - WEIR STRUCTURE
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 02:52:53 PM
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PLOT DRIVER:
PEN TABLE:

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HRGreen.com
Illinois Professional Design Firm # 184-001322

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PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-06 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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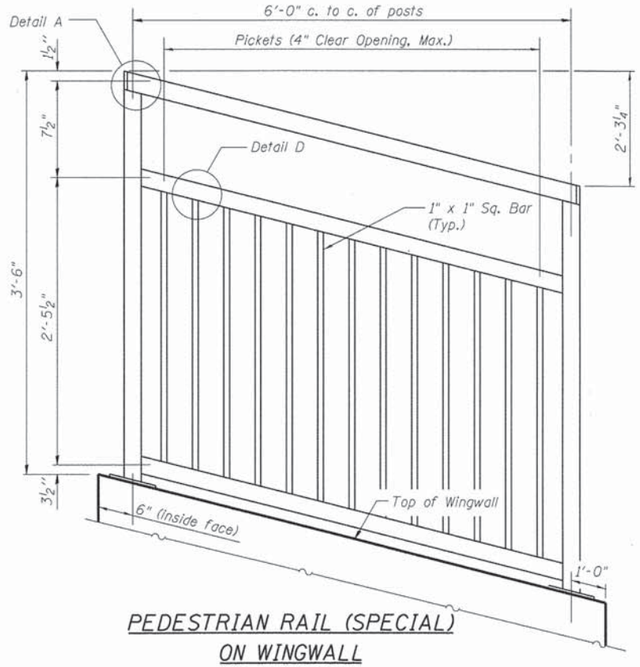
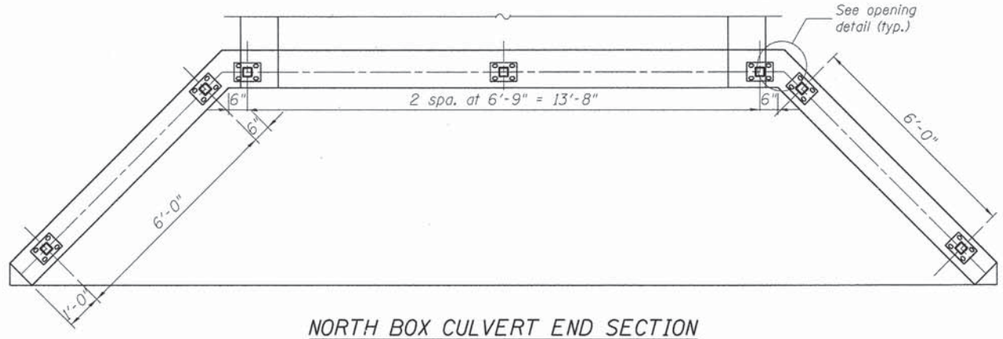
	ILLINOIS	FED. AID PROJECT	#FEDPROJNO#	

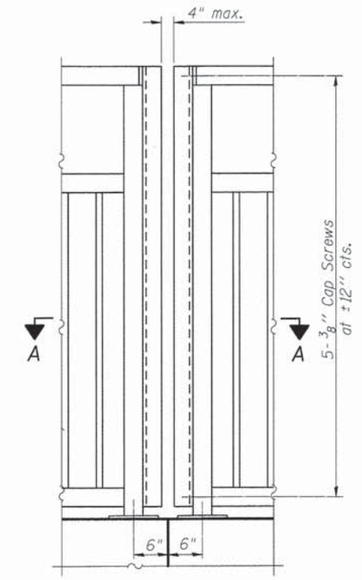


PEDESTRIAN RAIL (SPECIAL) ON WINGWALL

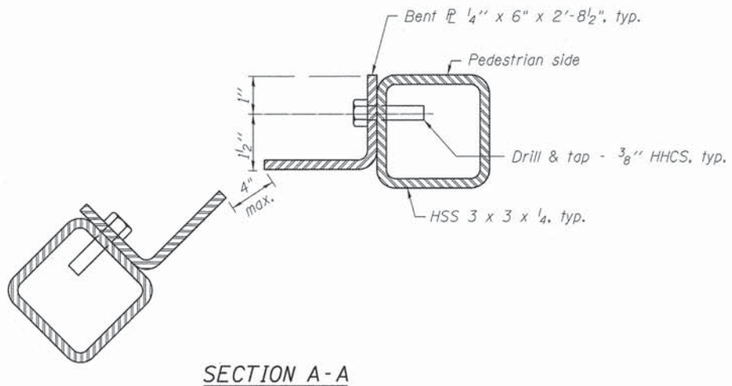


NORTH BOX CULVERT END SECTION

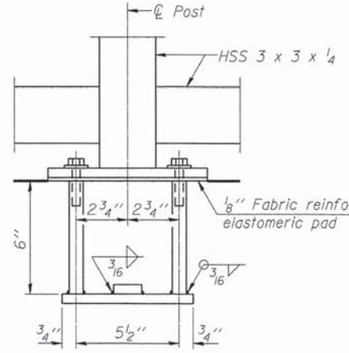
RAILING POST / BASE ℄ PLAN

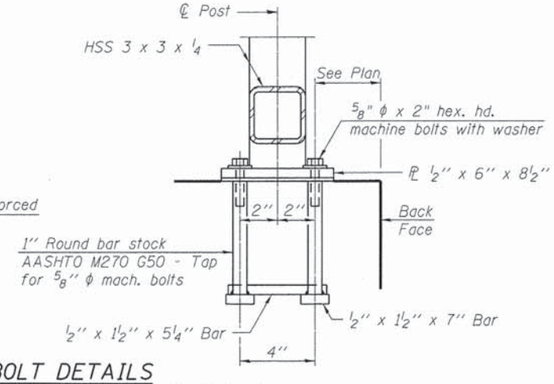


PEDESTRIAN RAIL (SPECIAL)



SECTION A-A





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

RAILING DETAILS - END SECTION
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 02:07:58 PM
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Illinois Professional Design Firm # 184-001322

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PLOT SCALE = NTS	DRAWN - WJH	REVISED -
PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-07 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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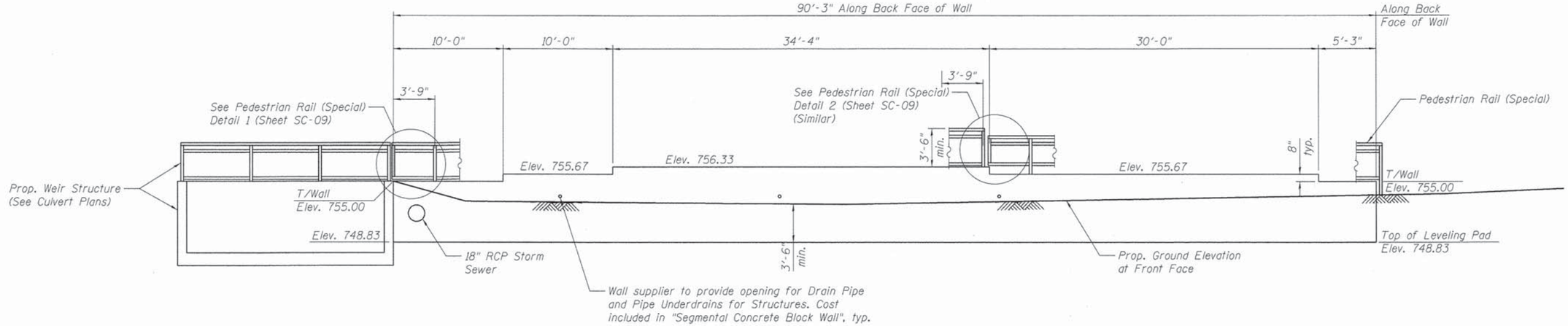

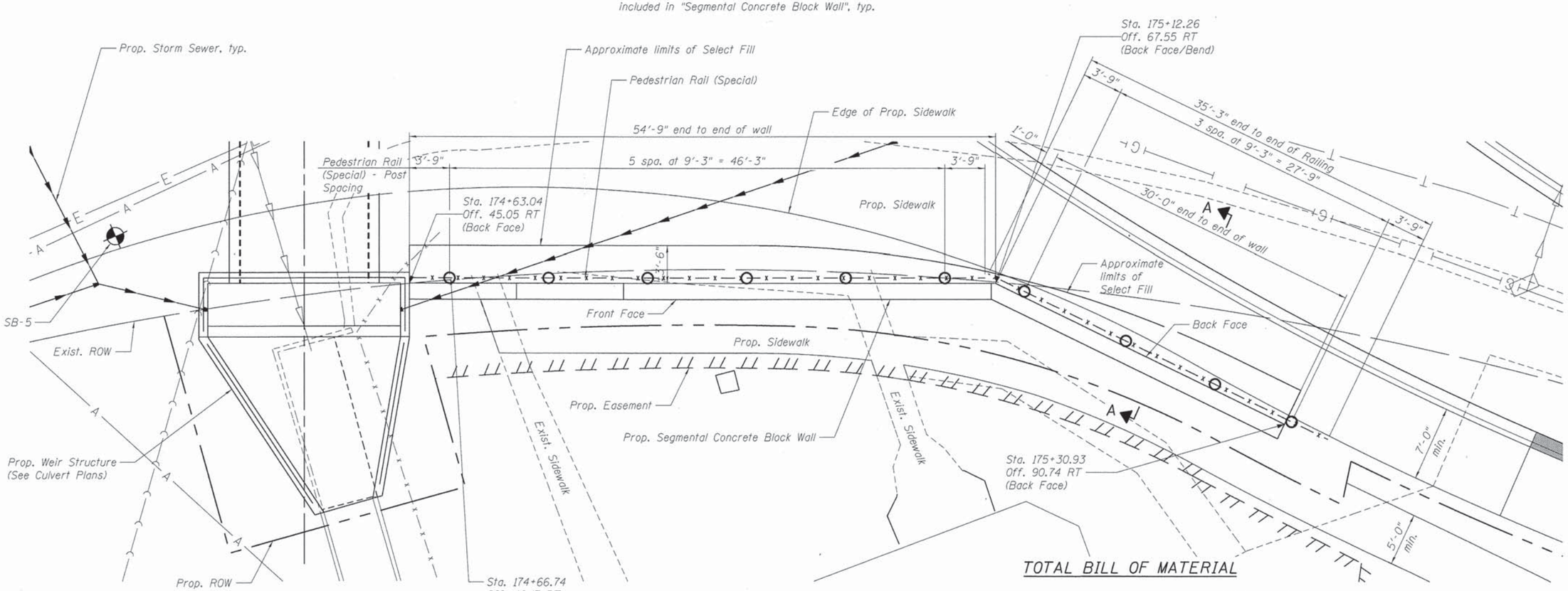

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Segmental Concrete Block Wall	Sq. Ft.	586
Structure Excavation	Cu. Yd.	111
Pedestrian Rail (Special)	Foot	85

Excavation required for installation of Segmental Concrete Block Wall shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be paid for as Structure Excavation.

The color of the wall shall be approved by the Engineer.

Notes:
Station and offsets are based of the proposed Johnsburg Road alignment.

Contractor shall verify and adjust the top of post elevations with actual field conditions and the segmental wall system selected. Maintain minimum 3'-6" above sidewalk.

GENERAL PLAN AND ELEVATION
RETAINING WALL
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+63.04 TO STATION 175+48.01

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 3:08:05 PM
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PLOT DRAWER: pdf.plt
PEN TABLE: standard-trans.tbl

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Illinois Professional Design Firm # 184-001322

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	CHECKED - RGD	REVISED -
PLOT SCALE = NTS	DRAWN - WJH	REVISED -
PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-08 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 63870		
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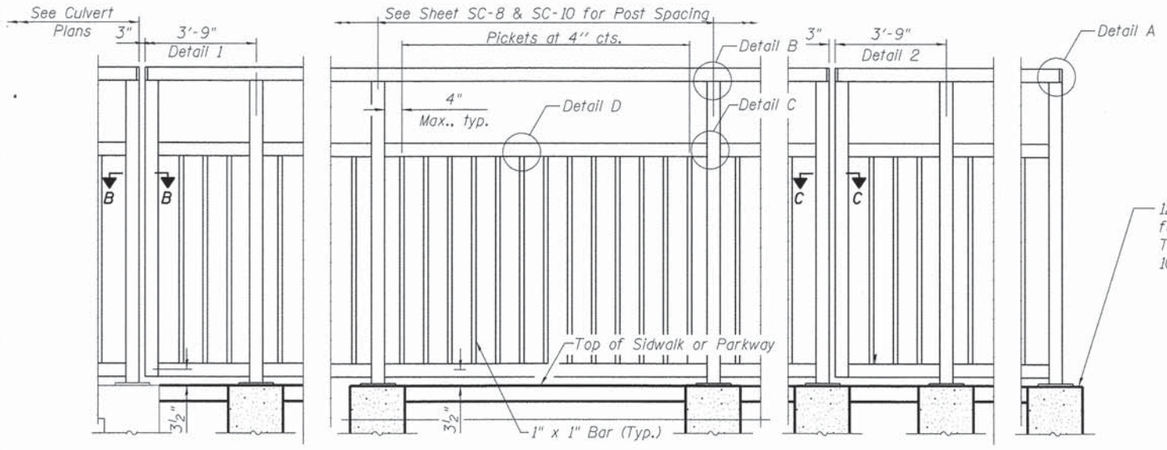
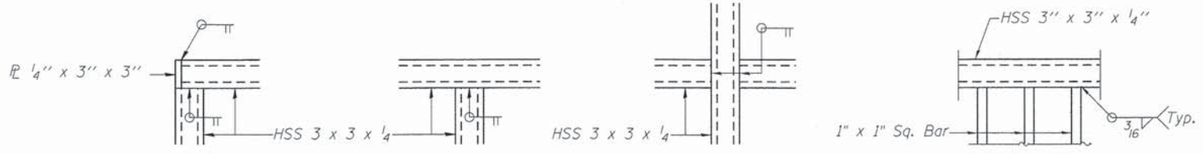
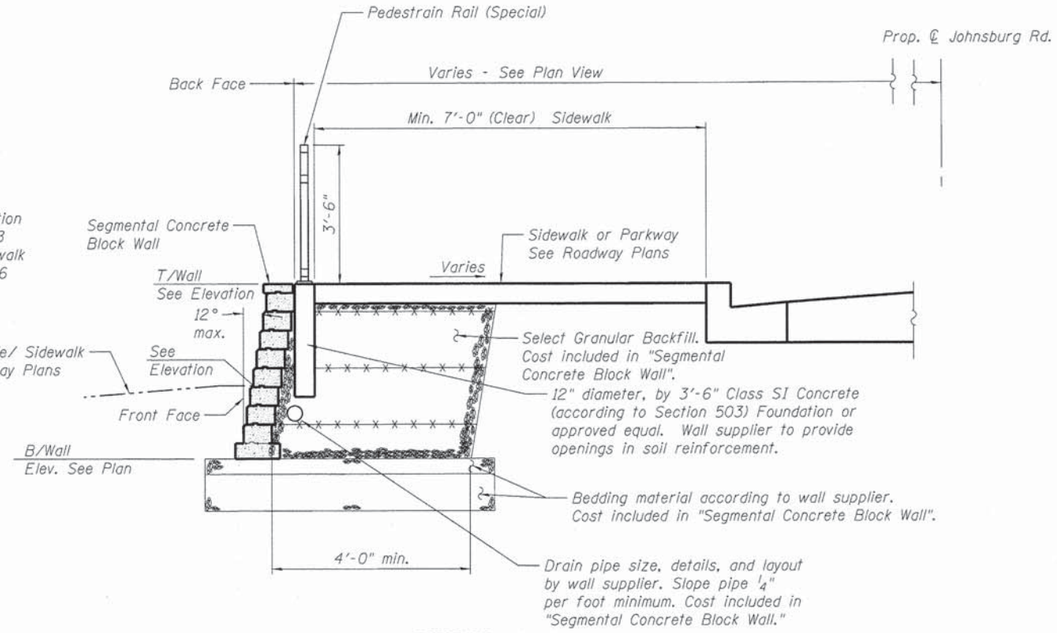


PEDESTRIAN RAIL (SPECIAL)

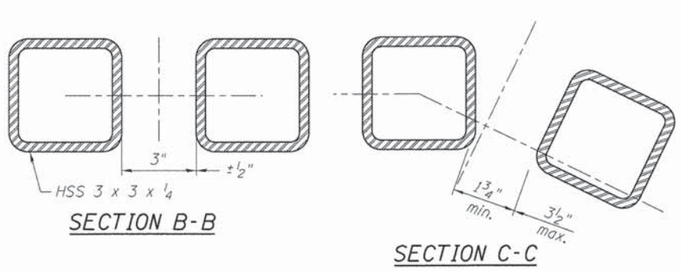


DETAIL A DETAIL B DETAIL C DETAIL D



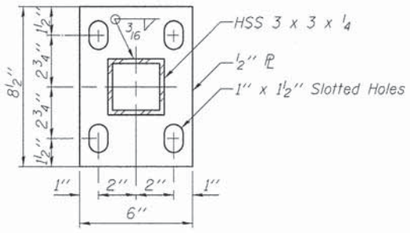
SECTION A-A
(TYPICAL FOR SC-08)

Shown at Pedestrian Rail (Special) Post
See Roadway Plans for additional information

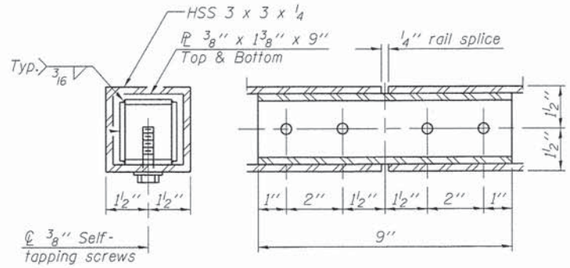


SECTION B-B

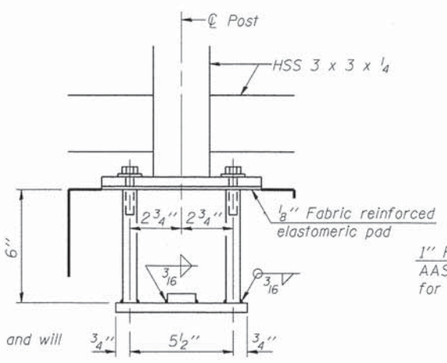
SECTION C-C

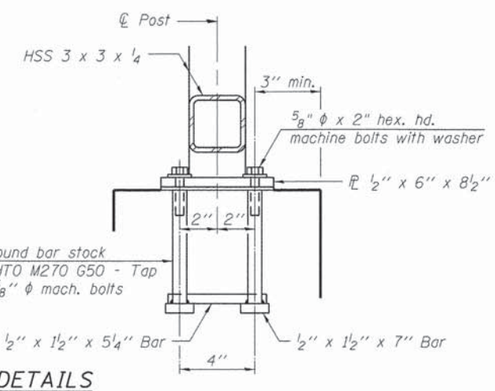


BASE PL



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications, but no greater than 6".

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Rail (Special).

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

Space reinforcement to miss anchor rods.

All post, railing, pickets, and splices be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5#8" ϕ anchor rods. Embedment shall be according to the manufacturer's specifications.

Horizontal rails shall be parrallel to finish grade/ sidewalk.

All post shall be vertical.

RETAINING WALL DETAILS
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 12:08:08 PM
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PLOT DRIVER: standard-trans.tbl
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HRGreen.com
Illinois Professional Design Firm # 184-001322

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PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-09 OF SC-10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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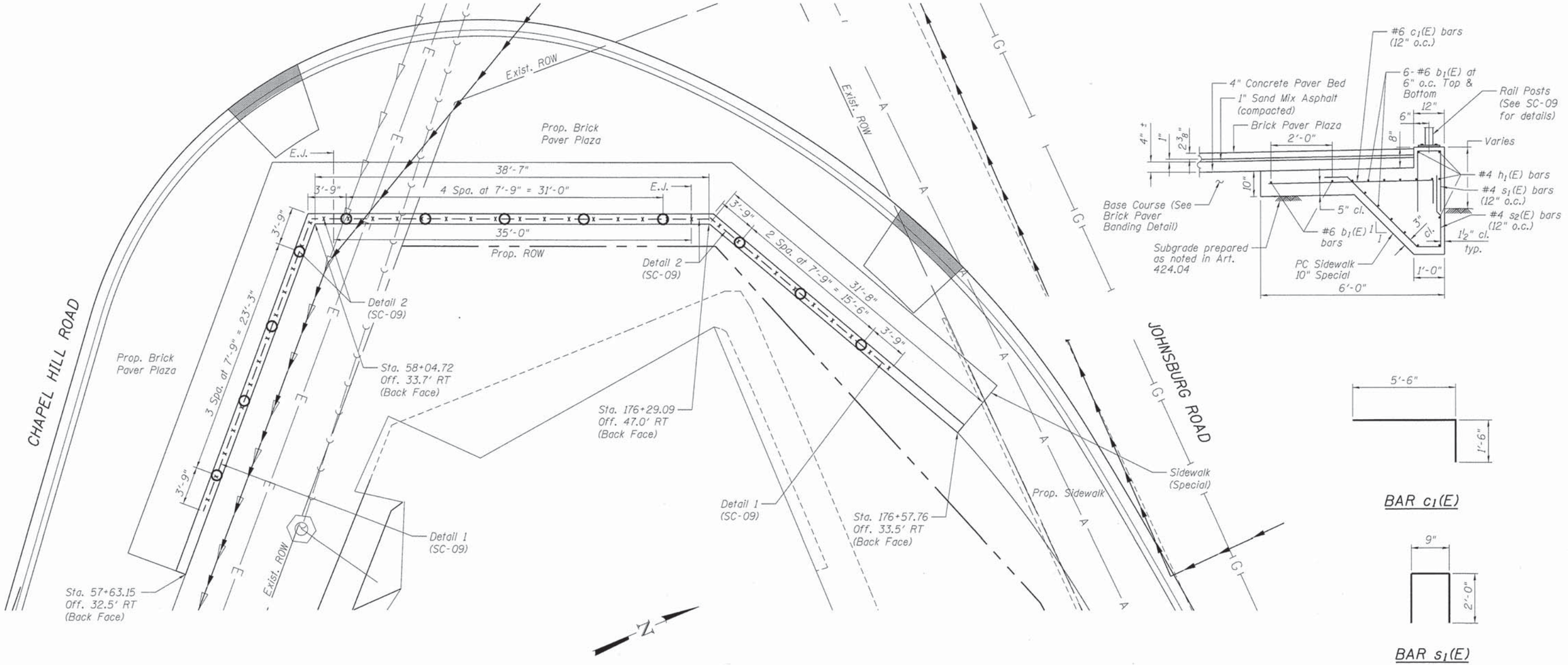
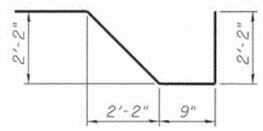
		CONTRACT NO. 63870		
	ILLINOIS FED. AID PROJECT	$FEDPROJNO$		



BAR $c_1(E)$

BAR $s_1(E)$



BAR $s_2(E)$

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
PC Sidewalk 10 Inch Special	Sq. Ft.	663
Structure Excavation	Cu. Yd.	43
Pedestrian Rail (Special)	Foot	87

Excavation required for installation of Portland Cement Concrete Sidewalk, 10 inch, Special shall be done in accordance with the applicable portions of Section 502 of the Standard Specifications and will be paid for as Structure Excavation.

BILL OF MATERIAL

Cost shall be included in PC Conc Sidewalk 10 SP

Bar	No.	Size	Length	Shape
$b_1(E)$	42	#6	40'-0" *	
$c_1(E)$	106	#6	7'-0"	
$h_1(E)$	12	#4	40'-0" *	
$s_1(E)$	106	#4	4'-9"	
$s_2(E)$	106	#4	7'-0"	

* Supply 40'-0" long and trim only as needed to fit in forms.

Notes:
Station and offsets are based of the proposed Johnsburg Road and Chapel Hill Road alignments.

Contractor shall verify the top of post elevations with actual field conditions.

PC Conc Sidewalk 10 SP shall be constructed as detailed herein. Cost of Reinforcement and Concrete shall be included in the square foot unit price for PC Conc Sidewalk 10 SP. Construction in accordance with Sections 424, 503 and 508.

GENERAL PLAN
SIDEWALK (SPECIAL)
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PEN TABLE:

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Illinois Professional Design Firm # 184-001322
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-10 OF SC-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0168	05-00314-00-WR	McHENRY	120	83
		CONTRACT NO. 63870		
	ILLINOIS	FED. AID PROJECT	$FEDPROJNO$	

Illinois Department of Transportation
Division of Highways
SAM Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/19/10

ROUTE Johnsburg Road DESCRIPTION On turn lane from Johnsburg to Chapel Hill Road LOGGED BY AR

SECTION LOCATION Southwest of intersection, SEC. 13, TWP. T45N, RNG. R8E

COUNTY McHenry DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. B-5
Station 174+50
Offset 30.00ft Right
Ground Surface Elev. 754.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 743.5 ft ▼
Upon Completion 745.5 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
13\" aSPHALT PAVEMENT				
753.40				
FILL; made with brown sand, clay and stones		30		
		20		
		10		
751.50				
SILTY CLAY LOAM with sand; gray brown; moist; soft ; (CL-ML) - A-5		7		
		2		
749.50	-5	3		
SAND; brown; fine grained with occasional stones; moist to saturated; loose: (SP) A-2		3		
		4		
		3		
	▽	2		
		3		
	-10	2		
Encountered water at 11 feet ▼		2		
		1		
		2		
		2		
		2		
	-15	3		
736.50				
SAND with gravel; gray brown; saturated; medium dense to dense; (SPG) - A-1-b		9		
		10		
734.50	-20	13		

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SAM Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 1/19/10

ROUTE Johnsburg Road DESCRIPTION On Turn lane into St. Johns Ave. from Johnsburg Road LOGGED BY AR

SECTION LOCATION Northeast of intersection, SEC. 13, TWP. T45N, RNG. R8E

COUNTY McHenry DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. B-6
Station 175+00
Offset 32.00ft Left
Ground Surface Elev. 754.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 742.0 ft ▼
Upon Completion 744.0 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4' Asphalt Pavement 753.67				
Sand & Gravel base layer 8" tohick 753.00				
FILL; made with brown Gravelly Clayey Sand		51		
		46		
		35		
751.00				
CLAYEY SAND; brown; moist; loose; (SC) - A-2-6		5		
		3		
	-5	4		
748.00				
FINE SAND; clean; orange brown; fine grained moist to saturated (below 12'); loose to medium dense; (SP) - A-1-b		4		
		4		
		3		
		2		
		2		
	▽ -10	2		
		2		
Encountered water at 12 feet ▼		2		
		3		
		2		
		3		
	-15	3		
		5		
		5		
734.00	-20	6		

End of Boring
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS
JOHNSBURG ROAD (FAU ROUTE 0168)
SECTION NO. 05-00314-00-WR
McHENRY COUNTY
STATION 174+72.28

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
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PEN TABLE: standard-hrgns.tbl

HRGreen.com
Illinois Professional Design Firm # 184-001322
HRGreen

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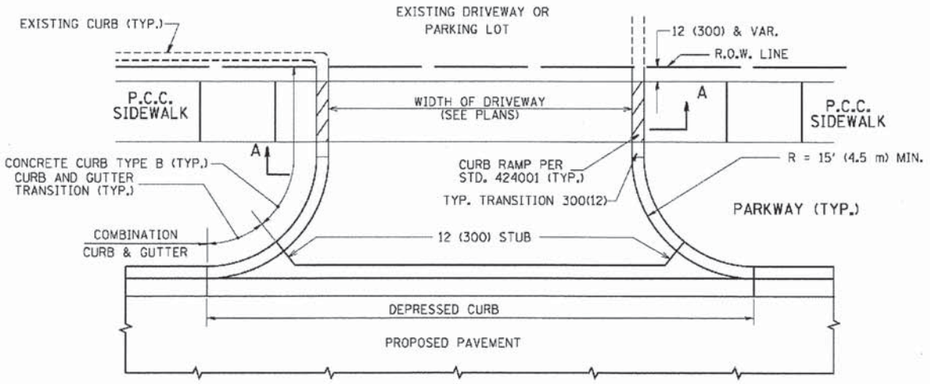
PLOT DATE = 10/24/2013	CHECKED - 10/24/13	REVISED -	

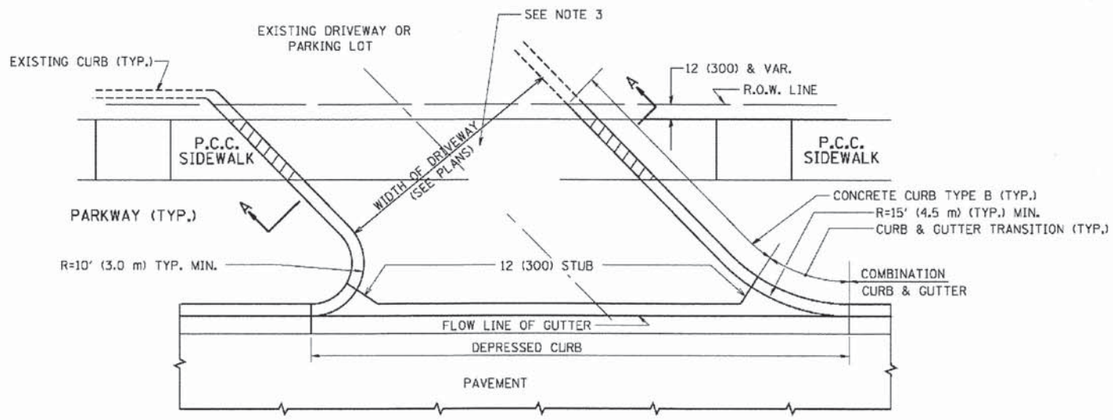
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SC-10 OF SC-10 SHEETS

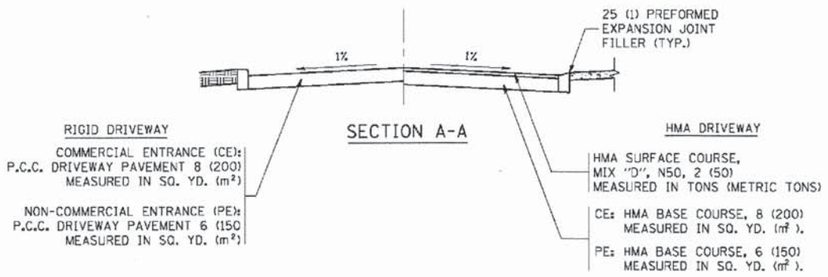
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0168	05-00314-00-WR	McHENRY	120	84
		CONTRACT NO. 63870		
	ILLINOIS FED. AID PROJECT	$FEDPROJNO$		

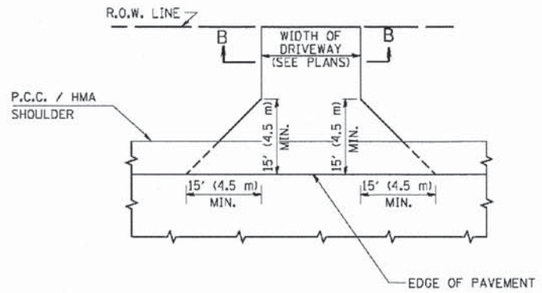


WITH CONCRETE CURB, TYPE B

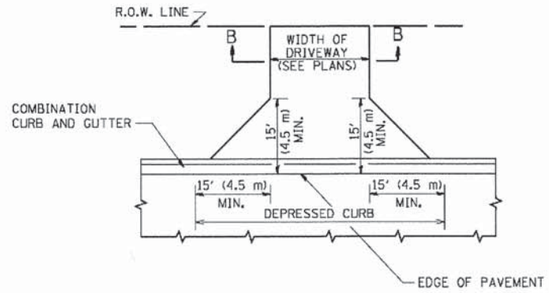


WITH CONCRETE CURB, TYPE B

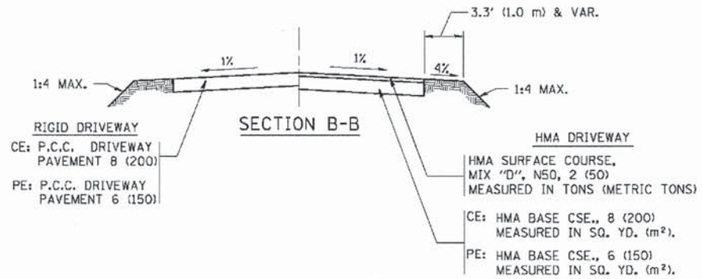




ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



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.

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CLIENT:
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MCHENRY
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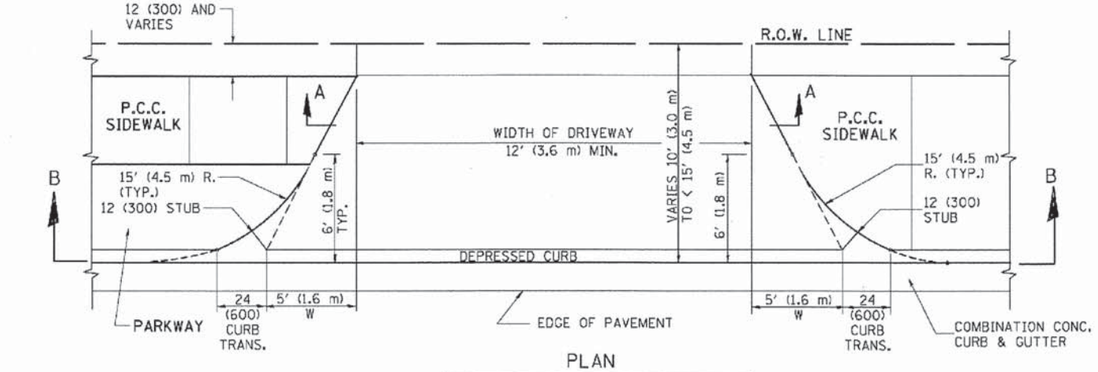
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

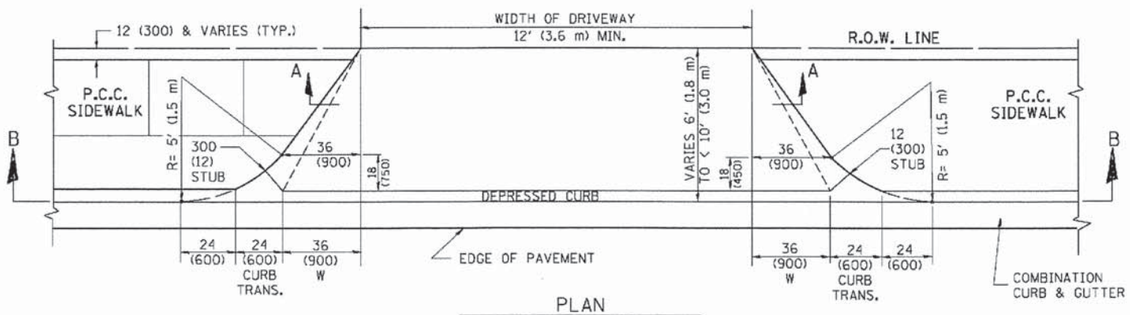
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	85
	BD0156-07 (BD-01)	CONTRACT NO.	63870	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



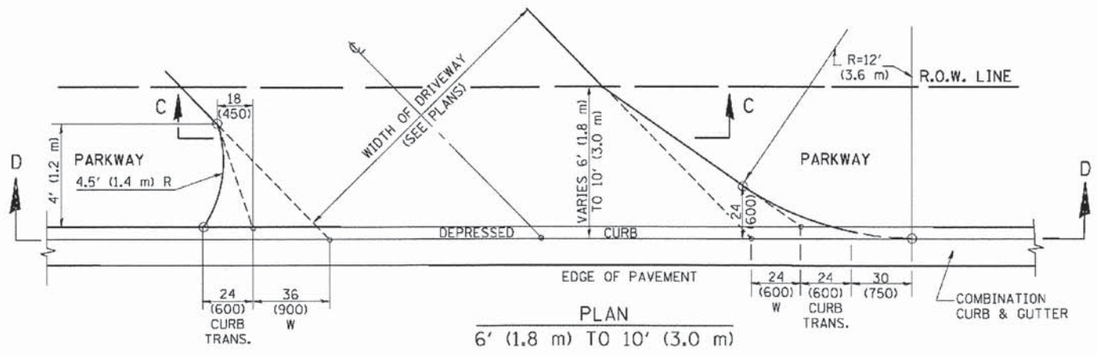
PLAN

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



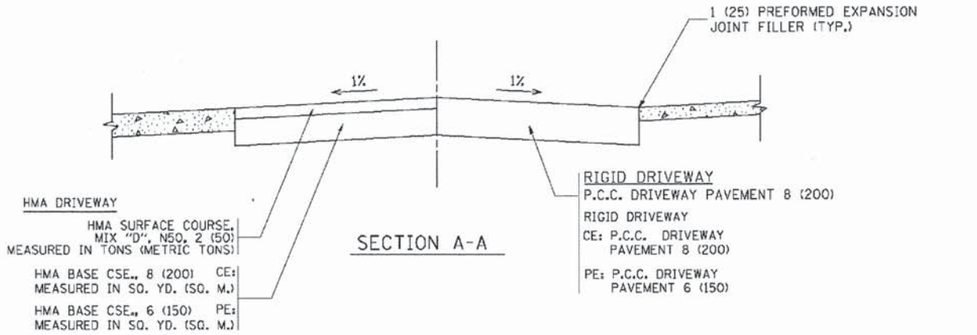
PLAN

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

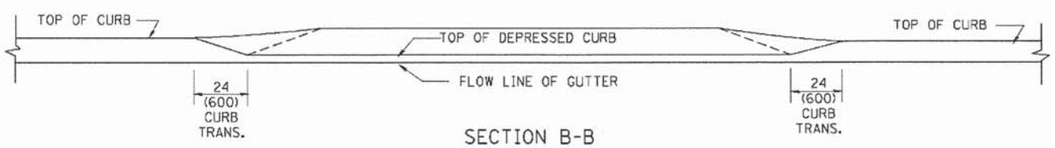


PLAN

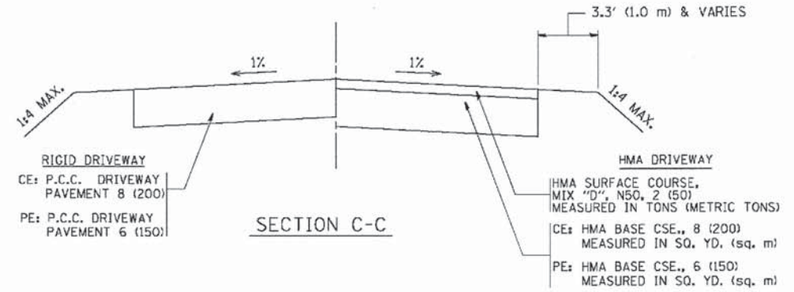
6' (1.8 m) TO 10' (3.0 m)



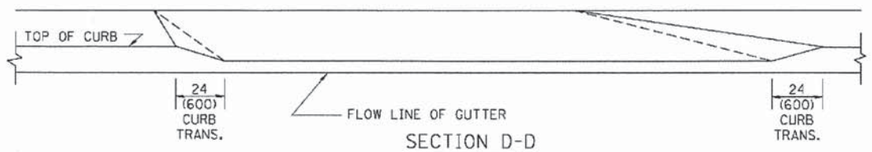
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

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

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

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

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

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CLIENT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	86
	BD400-02 (BD-02)	CONTRACT NO.	63870	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MCHENRY
05-00314-03-WR
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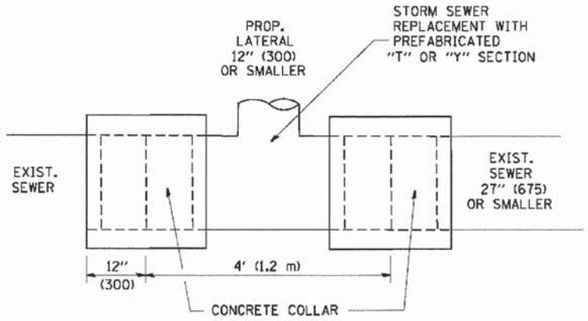
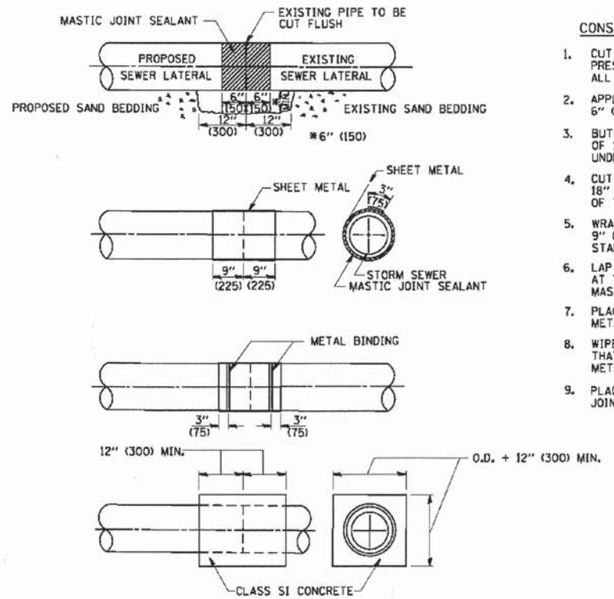


DETAIL "A"

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

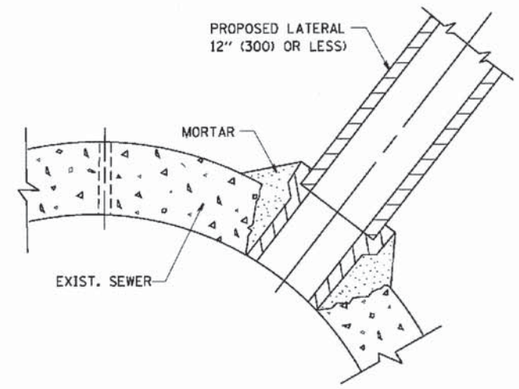


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

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

NOTES

MATERIAL

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

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

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

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

BASIS OF PAYMENT

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

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

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

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID 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:
CLIENT:
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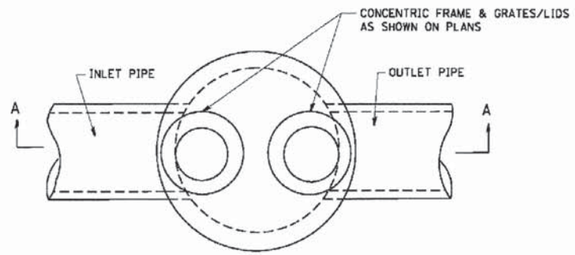
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

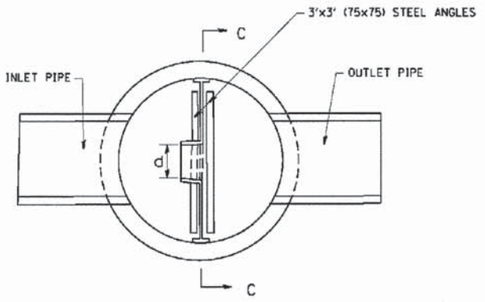
DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

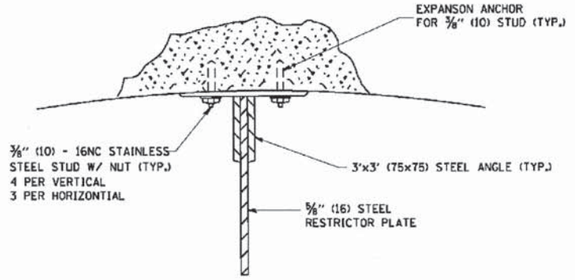
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	87
	BD500-01 (BD-7)	CONTRACT NO.	63870	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



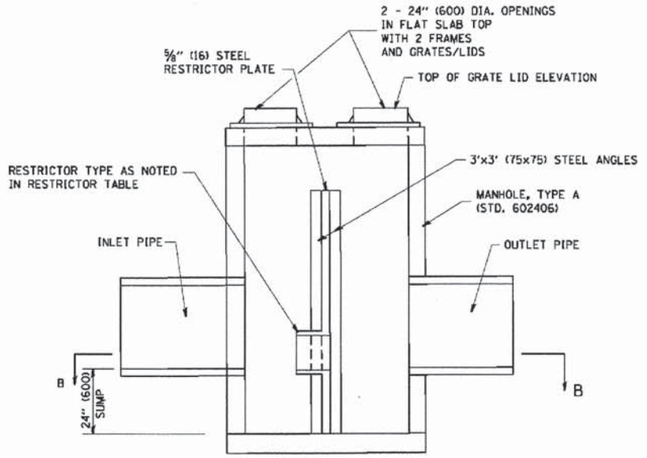
PLAN



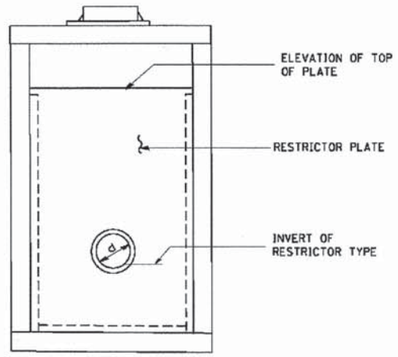
SECTION B-B



ANGLE FASTENER DETAIL



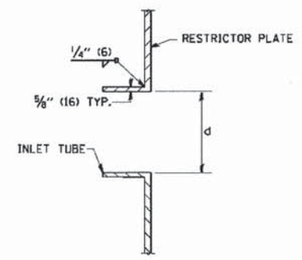
SECTION A-A



SECTION C-C

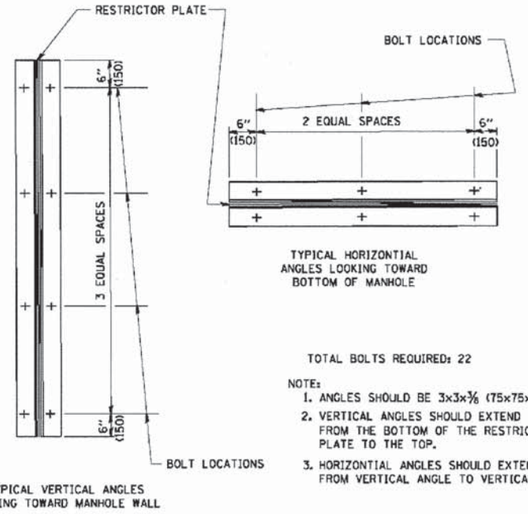
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES ,TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE 2-YR/(100-YR)	ELEVATION OF TOP OF PLATE OVERFLOW
57+43, 33.4' RT	7'	TICL	3	12", 12"	749.16/(750.42)	752.80



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL

TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x⅜ (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: ½ TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-½ DIA.	LENGTH: 2-½ DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

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PROJECT CONTACT:
CLIENT:
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PEN TABLE: standard-trans.tbl

MCHENRY 05-00314-03-WR 080622-de1-05.dgn

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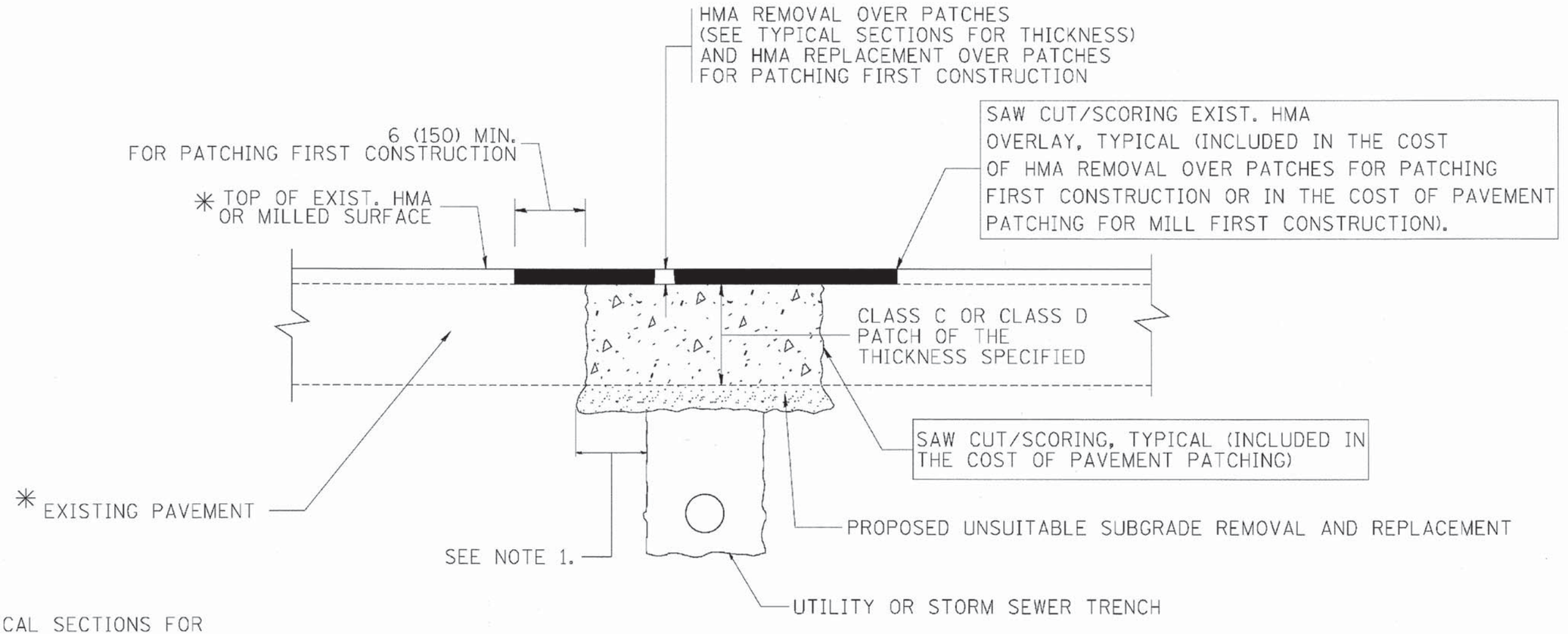
		DRAWN -	REVISED - E. GOMEZ 08-28-00	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-08-01	
	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	88
	BD600-04 (BD-12)	CONTRACT NO.	63870	
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 4½ 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:
CLIENT:
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		DRAWN -	REVISED - R. BORO 01-01-07		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07		
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	BD400-04 (BD-22)	CONTRACT NO.		63870
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MCHENRY
05-00314-03-WR
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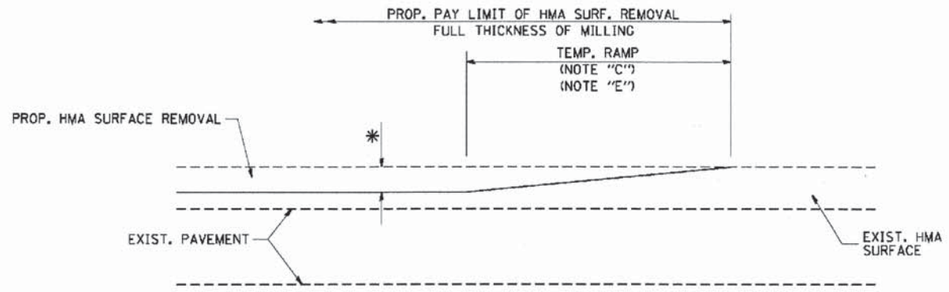
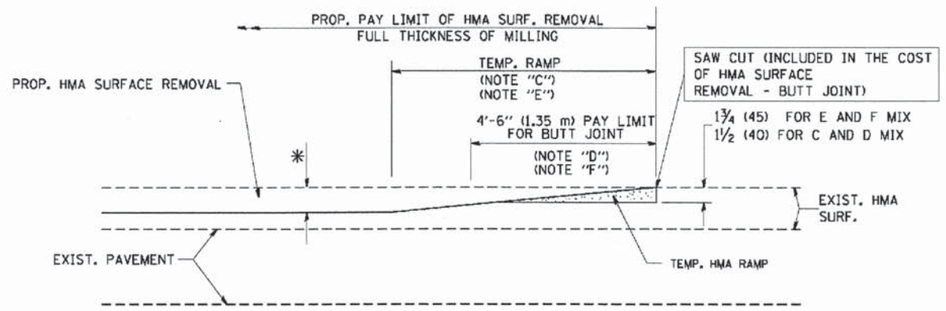


MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

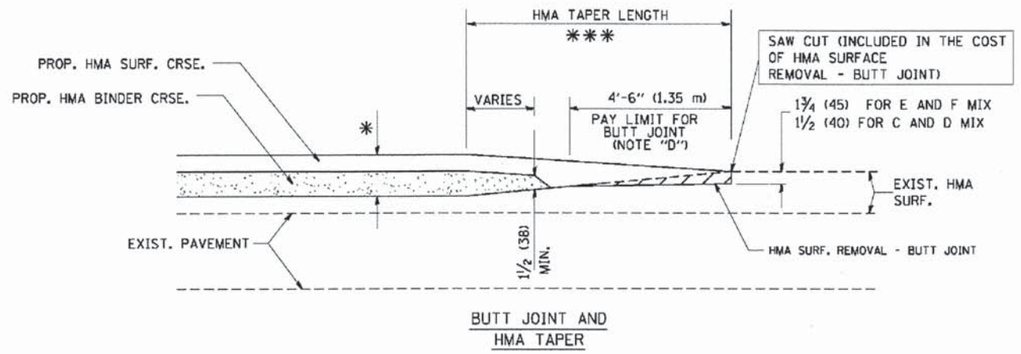


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

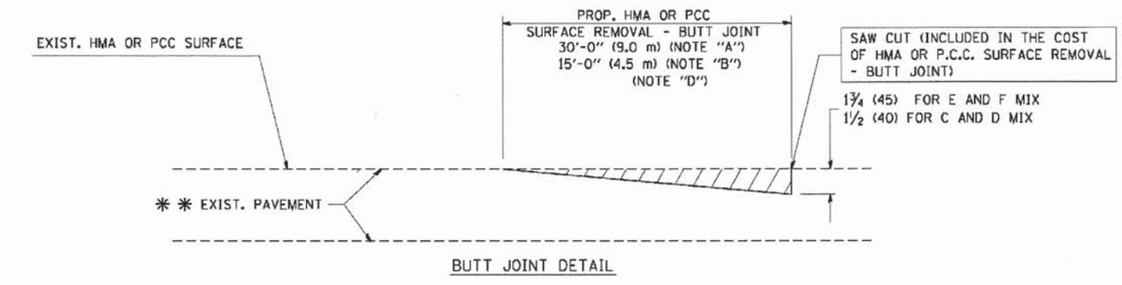
OPTION 2

TYPICAL TEMPORARY RAMP

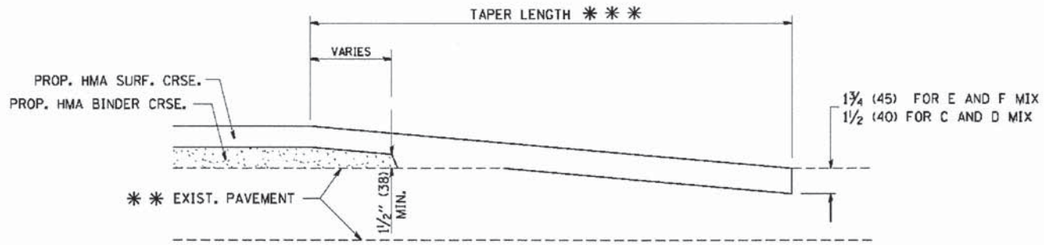


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

BASIS OF PAYMENT:

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

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

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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	90
	BD400-05 BD32	CONTRACT NO.		63870
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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MCHENRY
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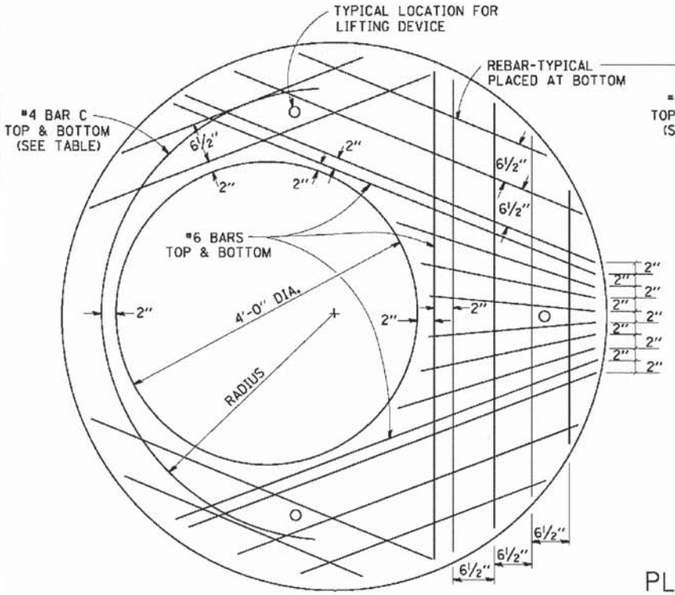
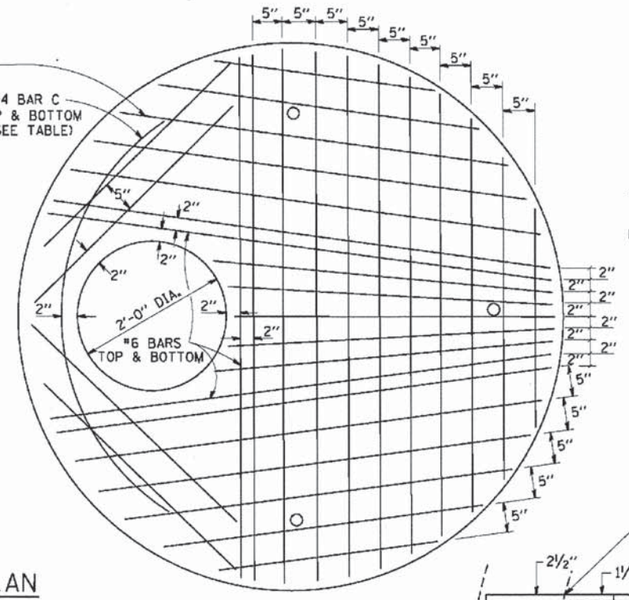
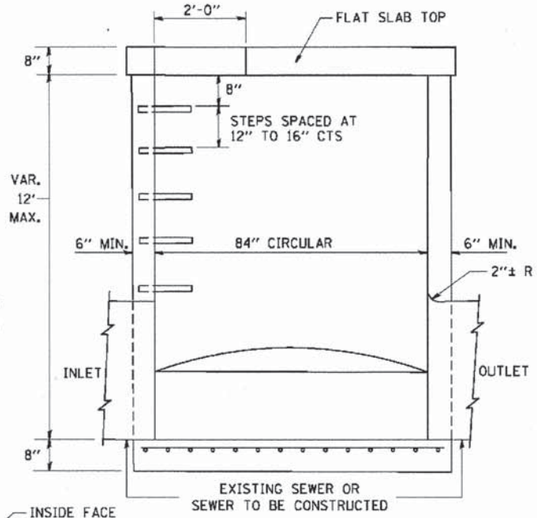




PLAN

SHOWING REBAR REINFORCEMENT



ELEVATION

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

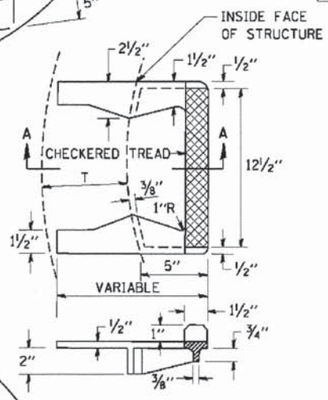
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

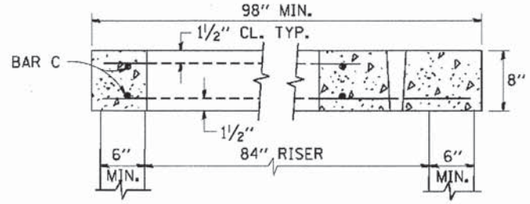
JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

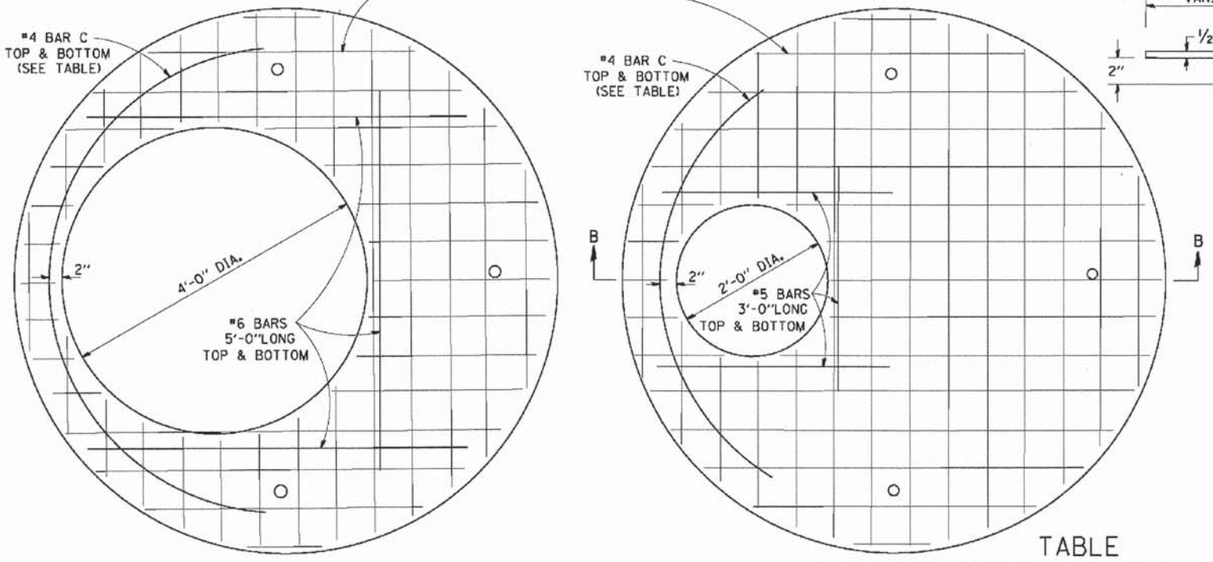


SEC. A-A

CAST IRON STEPS



SECTION B-B



PLAN

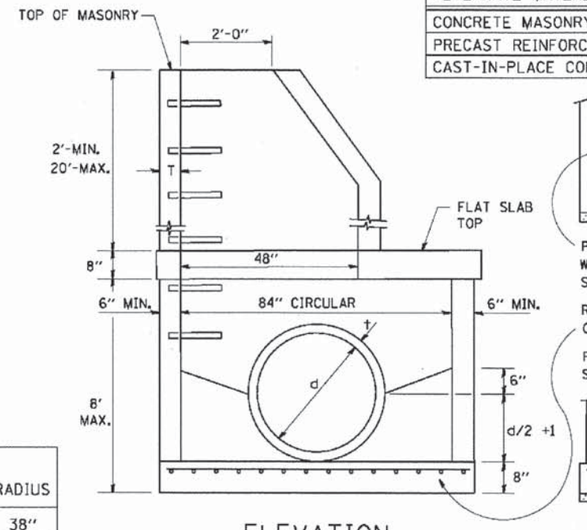
SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

DIAMETER OF OPENING	REINFORCEMENT "AS" WWF OR EACH DIRECTION	BAR SIZE	BAR C SIZE	BAR C LENGTH	BAR C RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

TABLE

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



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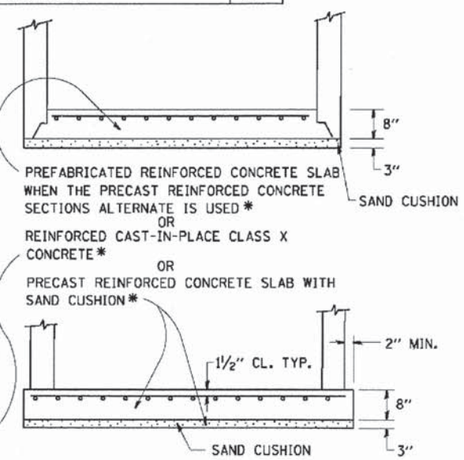

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	PLOT DATE = 1/4/2008	DATE - 10-18-02	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	91
	BD600-11 (BD-37)	CONTRACT NO. 63870		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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CLIENT:
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MCHENRY
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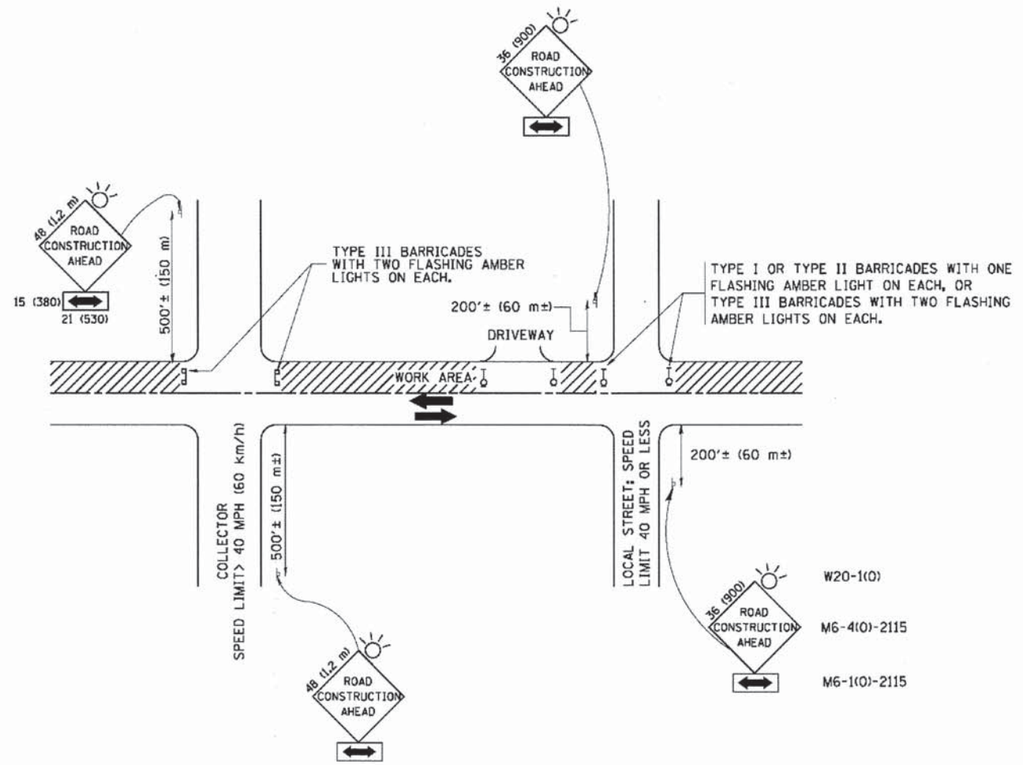

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2013 2:09:12 PM
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00-00314-03-WR
090622-dw1-11.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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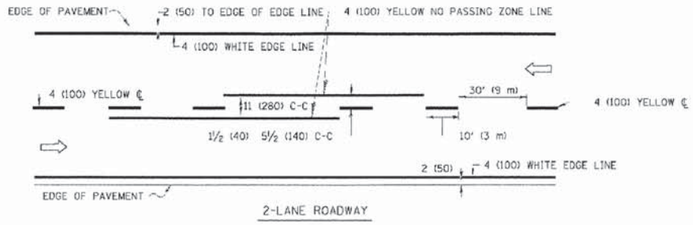
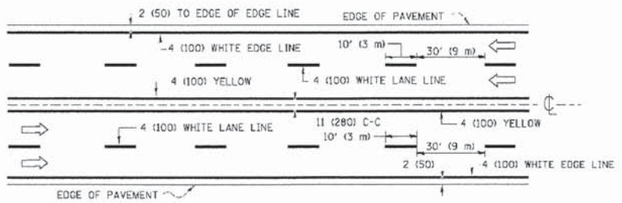
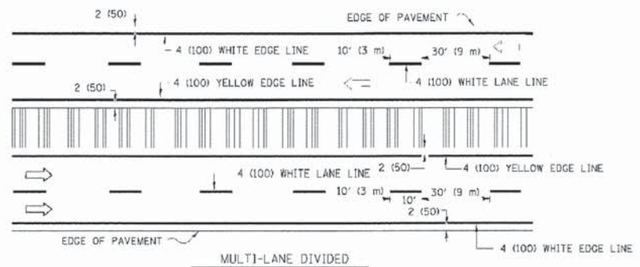
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



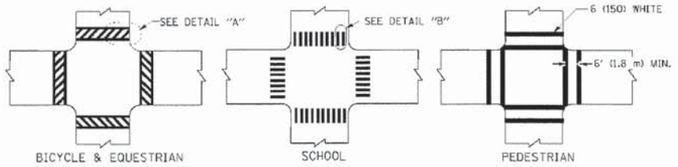
MULTI-LANE UNDIVIDED



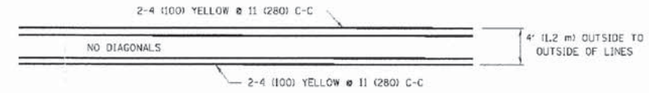
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

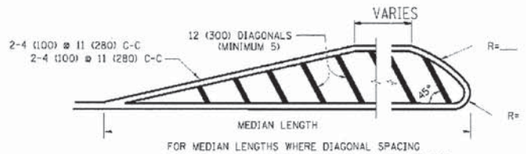
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



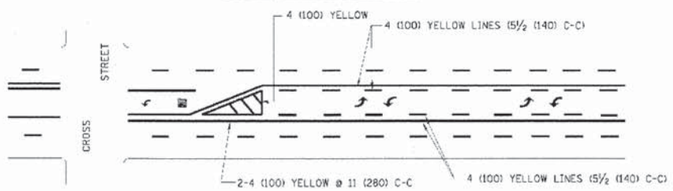
4' (1.2 m) WIDE MEDIANS ONLY



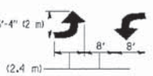
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

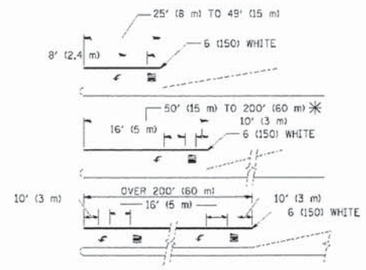


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

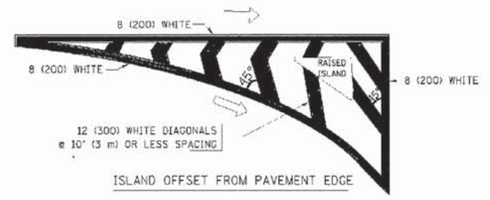


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

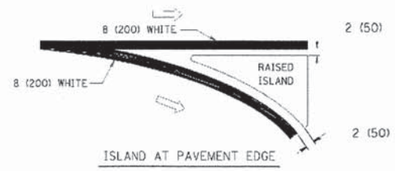
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ø 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ø 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ø 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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 ø 6 (150) 12 (300) ø 45° 12 (300) ø 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ø 4 (100) WITH 12 (300) DIAGONALS ø 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ø 45°	SOLID	WHITE	DIAGONALS: 16' (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: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) ø 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.

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CLIENT:
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PLOT DRIVER: pdf.plt
PEN TABLES: standard-trans.tbl

MCHENRY
05-00314-03-WR
D06522-dist-13.dgn

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		DRAWN	REVISED C. JUCIUS 09-09-09
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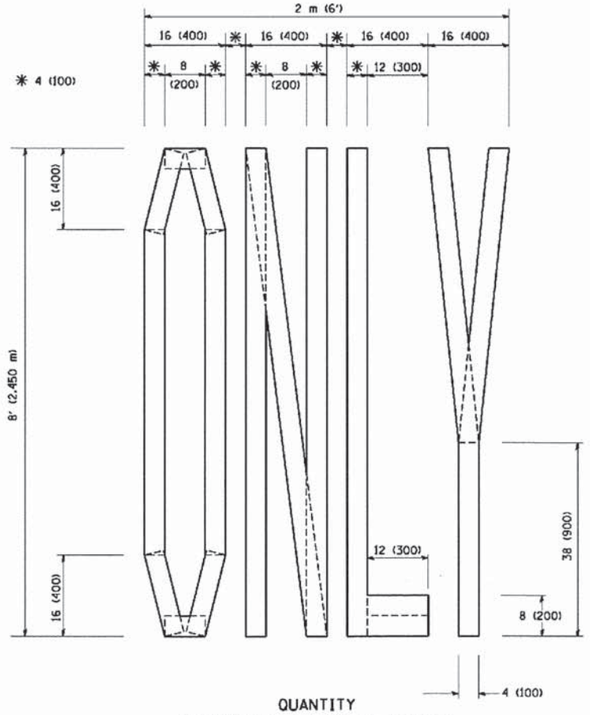
	PLOT DATE = 9/5/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

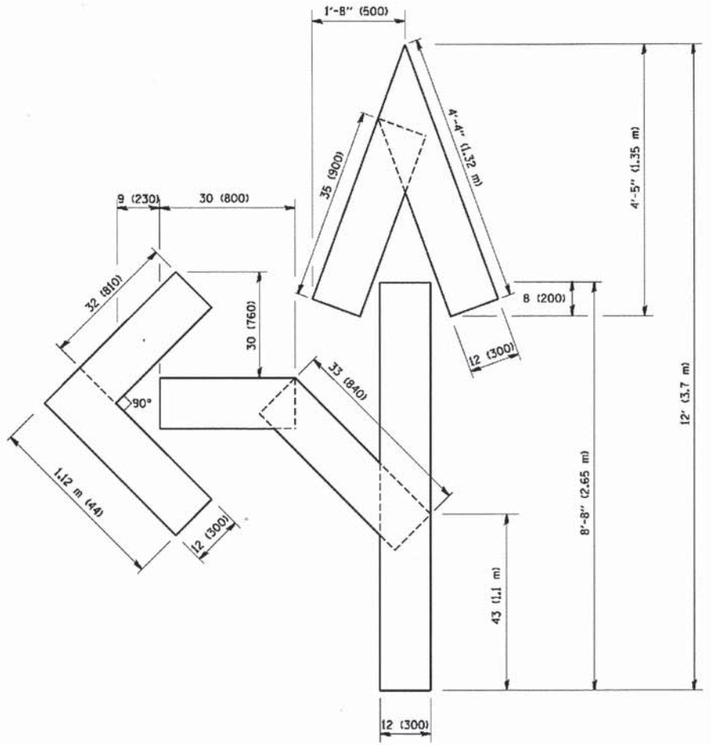
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

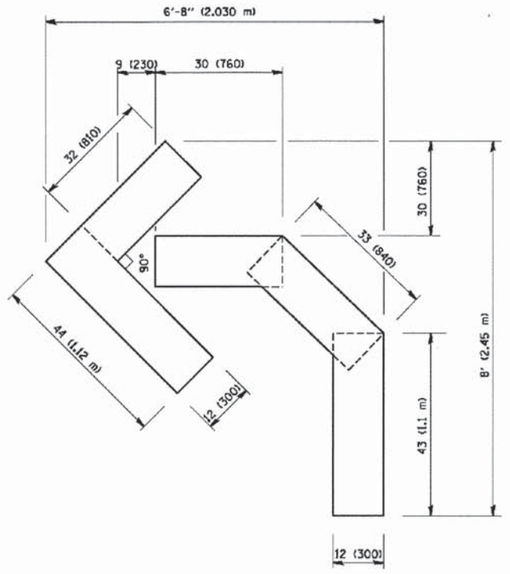
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
168	05-00314-03-WR	MCHENRY	120	93
	TC-13	CONTRACT NO. 63870		
FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT			



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.

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PROJECT CONTACT:
CLIENT:
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PEN TABLE: standard-trans.tbl

MCHENRY
05-00314-03-WR
080622-da1-14.dgn

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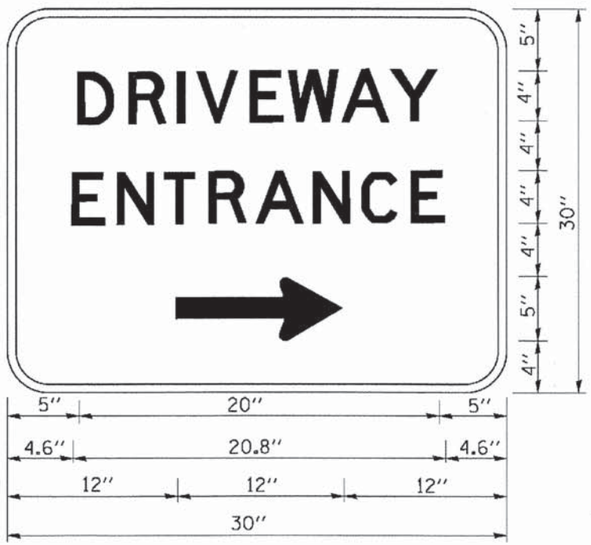
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.8888 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	94
	TC-16	CONTRACT NO.		63870
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".

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CLIENT:
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MCHENRY
05-00314-03-WR
080622-oat-15.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE SIGNING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	95
	TC-26	CONTRACT NO. 63870		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ROUTE MARKERS

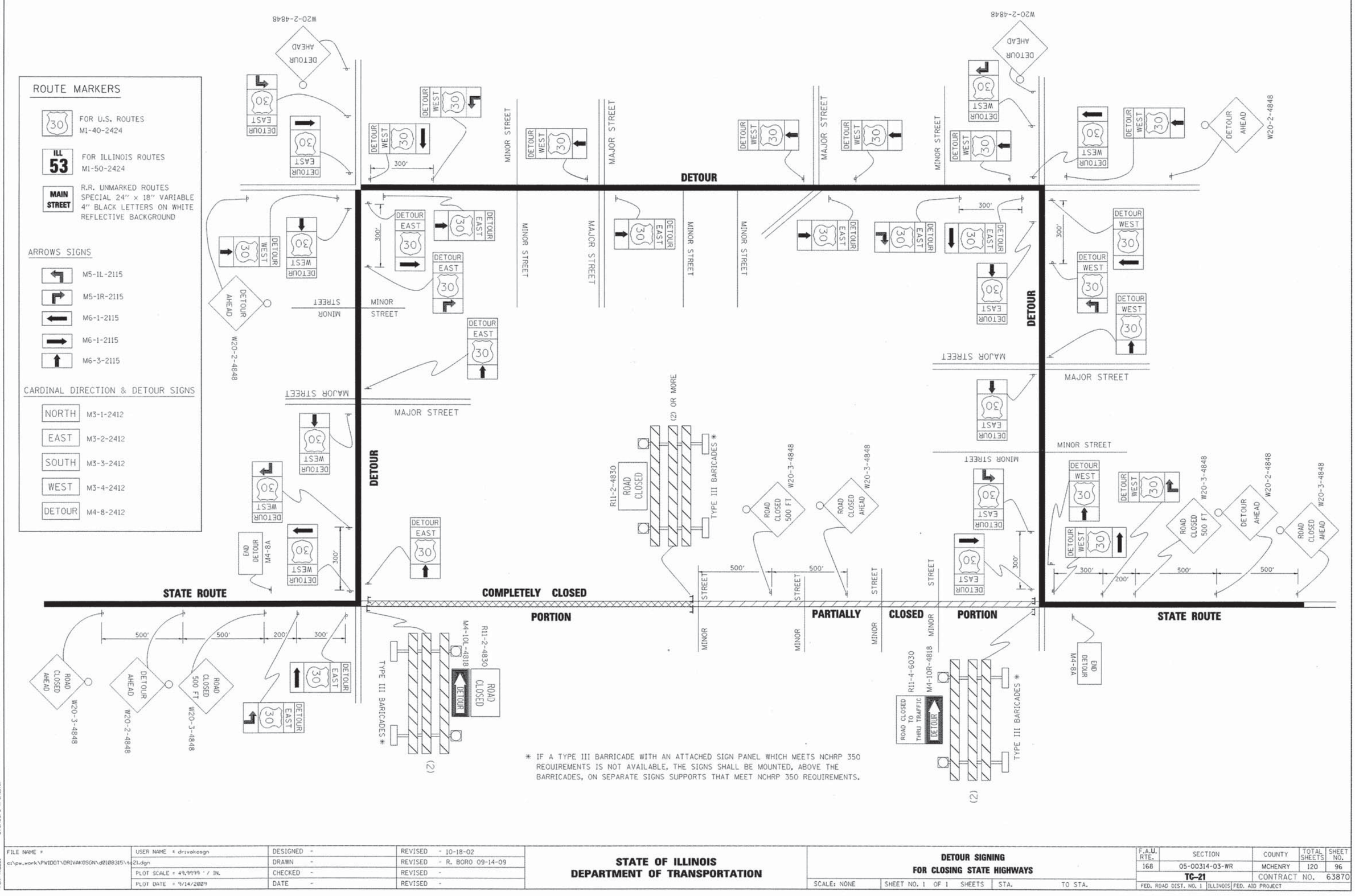
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



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

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PROJECT CONTACT:
CLIENT:
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MCHENRY
05-00314-03-WR
CH0622-dot-160.dgn

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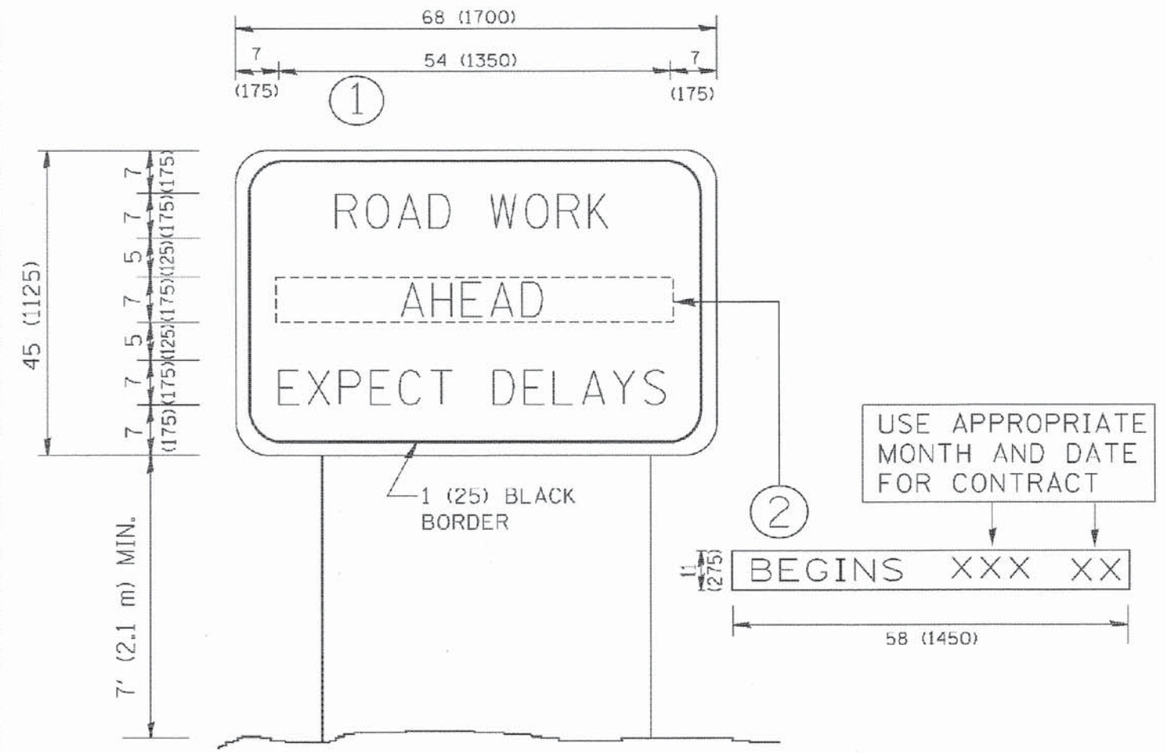
	PLOT DATE = 9/14/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	96
	TC-21	CONTRACT NO.	63870	
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.

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PROJECT CONTACT:
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	PLOT DATE = 1/4/2000	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	97
	TC-22	CONTRACT NO.	63870	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MCHENRY
05-00314-03-WR
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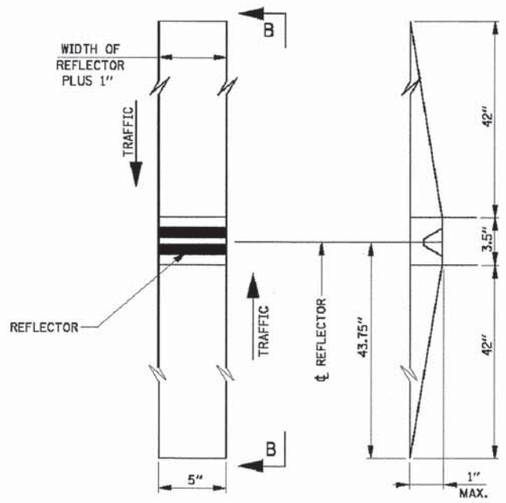
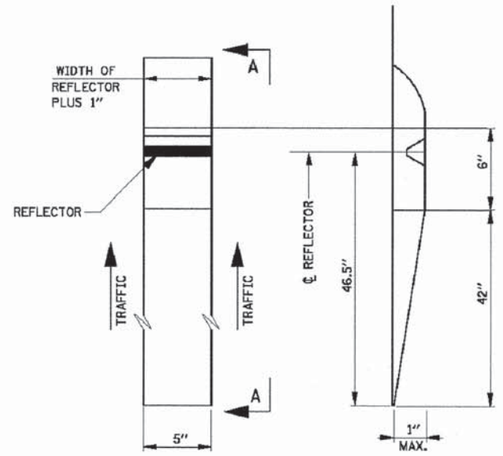


PLAN VIEW

SECTION B–B

TWO WAY



PLAN VIEW

SECTION A–A

ONE WAY

RECESSED REFLECTIVE MARKERS

INSTALLATION NOTES:

1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OR MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BAND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR ½ TO ¼ INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 290.

OR AN APPROVED EQUAL

GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT IN RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

COMPANY NAME:
PROJECT CONTACT:
CREATED: 11/4/2013 11:16:25 AM
DATE PLOTTED: 080622-det-17.dgn
FILE NAME: pdf.plt
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HRGreen.com
Illinois Professional Design Firm
184-001322

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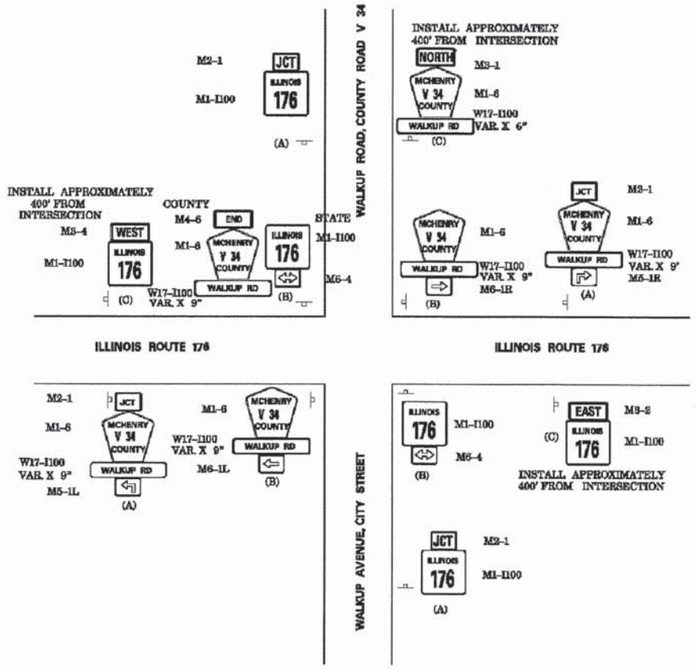
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/4/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

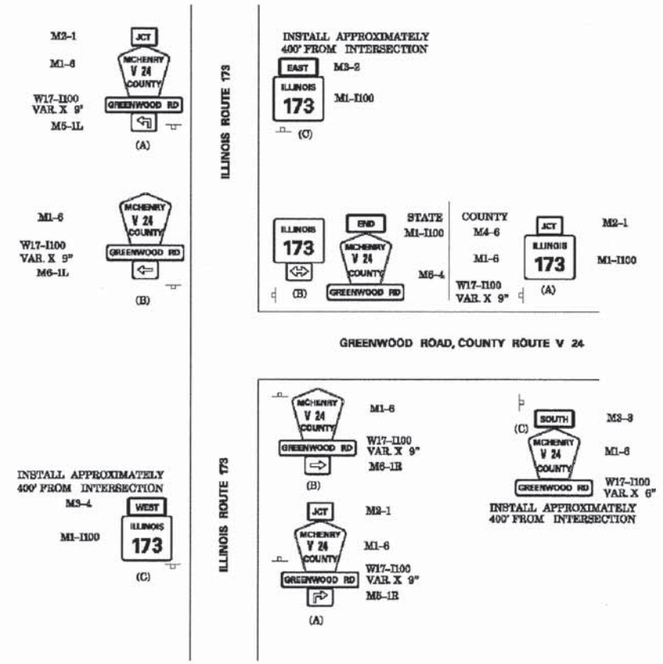
RECESSED PAVEMENT MARKER DETAIL

- | SHEET NO. 14 OF 18 SHEETS | STA. | TO STA.

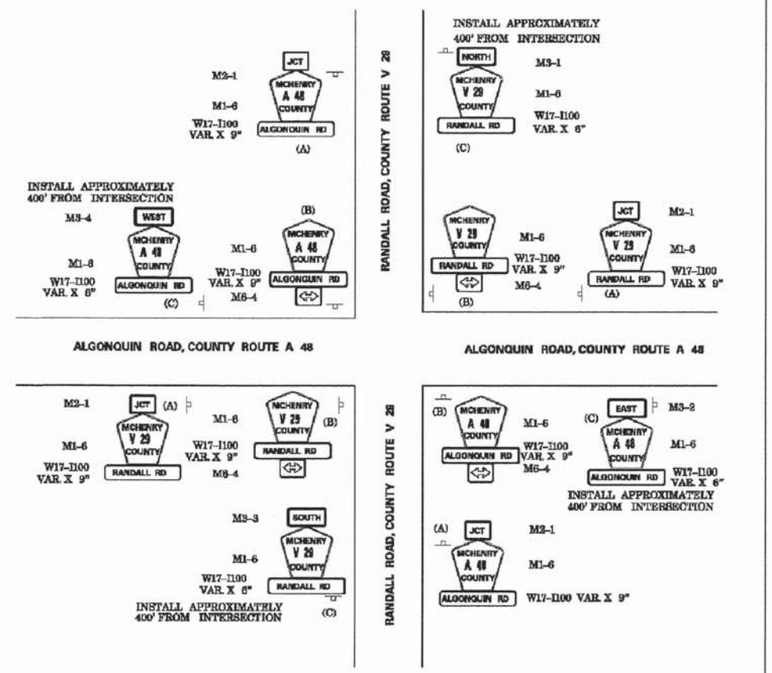
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	98
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CNTY/STATE/CITY



CNTY/STATE



CNTY/CNTY

JUNCTION SIGN LOCATION (A):
IN URBAN AREAS, THE JUNCTION SIGN SHALL BE INSTALLED IN THE BLOCK PRECEDING THE INTERSECTION.
IN RURAL AREAS, THE JUNCTION SIGN SHALL BE INSTALLED AT LEAST 400 FEET IN ADVANCE OF THE INTERSECTION.

CONFIRMATION SIGN LOCATIONS (C):
CONFIRMATION SIGN ASSEMBLIES SHALL BE INSTALLED APPROXIMATELY 400 FEET FROM THE INTERSECTION.

SIGN TYPE	SIGN CODE	SIGN COLOR	SIGN SIZE	LEGEND/SYMBOL
STATE RTE. MARKER	M1-I100	BLACK ON WHITE	24" X 24"	ILLINOIS "XX"
COUNTY RTE. MARKER	M1-6	YELLOW ON BLUE	24" X 24"	MCHENRY "XXX" COUNTY
JUNCTION (STATE RTE.)	M2-1	BLACK ON WHITE	21" X 15"	JUNCTION
JUNCTION (CTY. RTE.)	M2-1	YELLOW ON BLUE	21" X 15"	JUNCTION
DIRECTION (STATE RTE.)	M3-1	BLACK ON WHITE	24" X 12"	NORTH
DIRECTION (STATE RTE.)	M3-2	BLACK ON WHITE	24" X 12"	EAST
DIRECTION (STATE RTE.)	M3-3	BLACK ON WHITE	24" X 12"	SOUTH
DIRECTION (STATE RTE.)	M3-4	BLACK ON WHITE	24" X 12"	WEST
DIRECTION (CTY. RTE.)	M3-1	YELLOW ON BLUE	24" X 12"	NORTH
DIRECTION (CTY. RTE.)	M3-2	YELLOW ON BLUE	24" X 12"	EAST
DIRECTION (CTY. RTE.)	M3-3	YELLOW ON BLUE	24" X 12"	SOUTH
DIRECTION (CTY. RTE.)	M3-4	YELLOW ON BLUE	24" X 12"	WEST
END	M4-6	YELLOW ON BLUE	24" X 12"	END
BEGIN	M4-11	YELLOW ON BLUE	24" X 12"	BEGIN
ADVANCE ARROW	M5-1L	YELLOW ON BLUE	15" X 21"	ADV. LEFT ARROW
ADVANCE ARROW	M5-1R	YELLOW ON BLUE	15" X 21"	ADV. RIGHT ARROW
ARROW	M6-1L	YELLOW ON BLUE	15" X 21"	LEFT ARROW
ARROW	M6-1R	YELLOW ON BLUE	15" X 21"	RIGHT ARROW
ARROW (STATE RTE.)	M6-4	BLACK ON WHITE	15" X 21"	DOUBLE ARROW
ARROW (CTY RTE.)	M6-4	YELLOW ON BLUE	15" X 21"	DOUBLE ARROW
ROAD NAME (STATE RTE.)	W17-I100	BLACK ON WHITE	VARIABLE X 9"	FOR SIGNS A & B
ROAD NAME (STATE RTE.)	W17-I100	BLACK ON WHITE	VARIABLE X 6"	FOR SIGN C
ROAD NAME (CTY. RTE.)	W17-I100	YELLOW ON BLUE	VARIABLE X 9"	FOR SIGNS A & B
ROAD NAME (CTY. RTE.)	W17-I100	YELLOW ON BLUE	VARIABLE X 6"	FOR SIGN C

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 11/4/2013 11:44:32 AM
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HRGreen.com
Illinois Professional Design Firm # 184-001322

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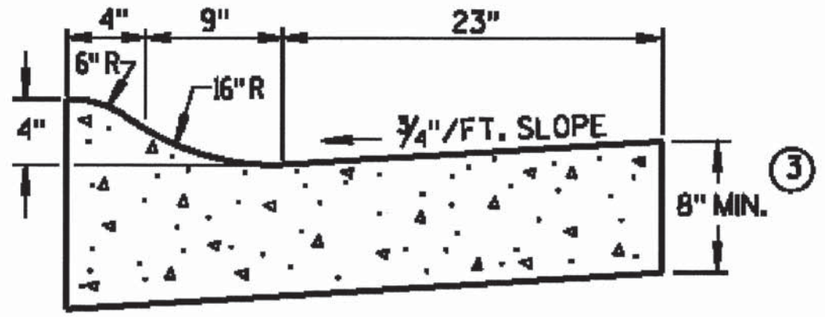
PLOT DATE = 11/4/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE SIGNING DETAIL

- | SHEET NO. 15 OF 18 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	99
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH ~~SUBSECTION 505.2.6.2 OF~~ THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

~~(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.~~

COMB. CONC. CURB & GUTTER TYPE M (SPECIAL) DETAIL

COMPANY NAME:
PROJECT CONTACT:
CONTACT:
DATE PLOTTED: 11/4/2013 11:16:40 AM
FILE NAME: 080622-det-19.dgn
PLOT DRIVER: pdf.pltr
PEN TABLE: standard-trans.tbl

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USER NAME = mfeller	DESIGNED -	REVISED -
FILE NAME = 080622-det-19.dgn	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 11/4/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION CONCRETE CURB AND GUTTER TYPE M (SPECIAL) DETAIL

- | SHEET NO. 16 OF 18 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
168	05-00314-03-WR	MCHENRY	120	100
		CONTRACT NO. 63870		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		