06-14-2019 LETTING ITEM 050

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	1
FED. ROAD DIST. NO 1	ILLINOIS	CONTRACT NO. 61F78		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU 0081 (PEARL STREET)
ILLINOIS ROUTE 31 (FAP 0336) TO RIVERSIDE DRIVE (FAU 0156)
SIDEWALK AND LIGHTING ENHANCEMENTS

SECTION: 18-00084-00-SW
PROJECT: CRSH (033)
CITY OF MCHENRY
MCHENRY COUNTY
C-91-291-19

TRAFFIC DATA

ADT:
PEARL STREET — 2017 TRAFFIC 4,800 VPD

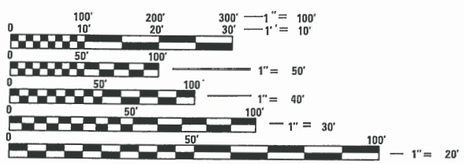
ROADWAY	SPEED POSTED	DESIGN SPEED
PEARL STREET	25 MPH	25 MPH

DESIGN DESIGNATION

FAU 0081 (PEARL STREET) - MAJOR COLLECTOR

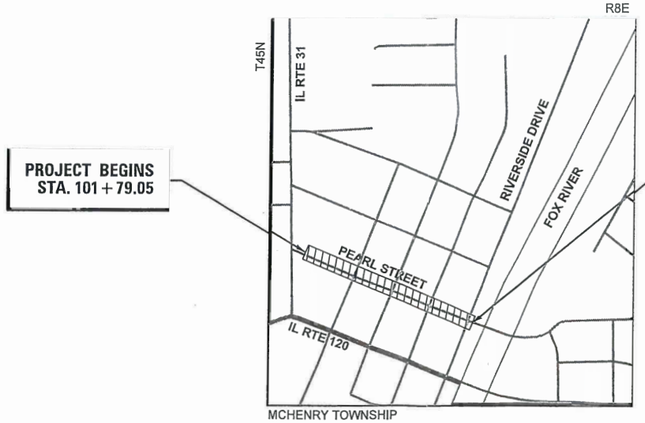
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

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



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.

LOCATION OF SECTION INDICATED THUS:- ■



PROJECT LOCATION MAP
MCHENRY COUNTY, ILLINOIS
N.T.S.

LICENSED PROFESSIONAL ENGINEER
BENJAMIN D. HARTMAN
062-061659
STATE OF ILLINOIS
SEAL

BENJAMIN D. HARTMAN, P.E.
EXPIRES: 11-30-19

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 3-1 20 19
CITY OF MCHENRY, DIRECTOR OF PUBLIC WORKS

PASSED 3/14/ 20 19
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW March 14 20 19
REGIONAL ENGINEER

PROJECT ENGINEER: B. HARTMAN
PROJECT MANAGER: A. CHAUDHRY
CONTRACT NO. 61F78

PROJECT LENGTH
NET AND GROSS LENGTH OF PROJECT= 1,584 FT. = 0.300 MILES

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006-00	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS

DISTRICT ONE DETAILS

STANDARD NO.	LIST OF DESCRIPTION
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-702	MISC. ELECTRICAL DETAILS, SHEET A

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PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND STATE STANDARDS
PEARL STREET

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

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	2
		CONTRACT NO. 61F78		
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, APRIL 1, 2016. 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 THEM TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK. 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 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
6. ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 DATUM.
7. SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS AND SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE IN THE PORTION REMAINING.
8. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
9. THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED SIDEWALK, UNLESS OTHERWISE NOTED.
10. ALL SIGNS TO BE REMOVED ALONG THE PROJECT SHALL REMAIN THE PROPERTY OF THE CITY OF MCHENRY AND SHALL BE RETURNED TO THE CITY (1415 INDUSTRIAL DRIVE) UPON REMOVAL.
11. THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY WITHOUT WRITTEN CONSENT FROM THE CITY OF MCHENRY.
12. WHEN CONDITIONS ARE ENCOUNTERED WHERE THE EXCAVATION FOR STRUCTURE OR PIPE CANNOT BE KEPT FREE OF WATER FOR PROSECUTING THE WORK THE CONTRACTOR SHALL PUMP AND/OR DIVERT WATER TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
13. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC AND STAGING OF CONSTRUCTION SCHEDULE FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.

STORM SEWERS, SANITARY SEWER, 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.
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 ENGINEER.
4. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
5. OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
6. 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.
7. 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.
8. THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.

BACKFILL

1. PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER, SANITARY SEWER AND PIPE CULVERTS 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.
2. TRENCH BACKFILL MATERIAL SHALL CONSIST OF CA-6 CRUSHED STONE OR CRUSHED AGGREGATE.

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.
4. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.
5. ALL SIGNS SHALL BE INSTALLED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED.

SEDIMENTATION AND EROSION CONTROL

1. CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL (WWW.AISWCD.ORG/IUM) UNLESS STATED OTHERWISE.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.
3. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
4. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
5. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
6. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW: A) WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND B) IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
7. DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.
8. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
9. THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
10. IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
11. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.
12. STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
13. EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO: A) MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND B) MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
14. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
15. THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

LANDSCAPING

1. TREES TO BE PROTECTED DURING CONSTRUCTION WILL RECEIVE PROTECTION IN ACCORDANCE WITH ARTICLE 201 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.

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PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
PEARL STREET

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

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	3
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY ITEP 80% FED 20% CITY 0028
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,256	2,256
	25200110	SODDING, SALT TOLERANT	SQ YD	2,256	2,256
	28000400	PERIMETER EROSION BARRIER	FOOT	1,596	1,596
	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	102	102
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	781	781
	42400800	DETECTABLE WARNINGS	SQ FT	160	160
	44000300	CURB REMOVAL	FOOT	213	213
	60600605	CONCRETE CURB, TYPE B	FOOT	213	213
	67100100	MOBILIZATION	LSUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
+	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
* +	80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1	1
+	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	14	14
+	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	682	682
+	81603051	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,595	2,595
+	81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	51	51
+	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1	1
+	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	196	196
* +	X1400238	LUMINAIRE, LED, SPECIAL	EACH	28	28
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100
*	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	8,038	8,038
*	X4404700	SIDEWALK REMOVAL (SPECIAL)	SQ FT	9,295	9,295
* +	X8300001	LIGHT POLE, SPECIAL	EACH	28	28
* +	XX008910	PAVEMENT MARKING (SPECIAL)	SQ FT	3,235	3,235
*	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154	154
* +	Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM	LSUM	1	1

* SPECIAL PROVISION

\+ SPECIALTY ITEM

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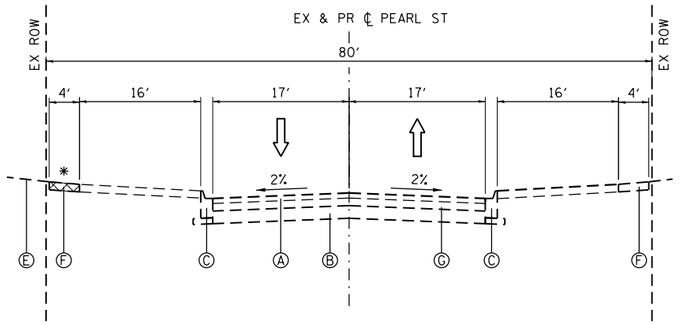
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PEARL STREET

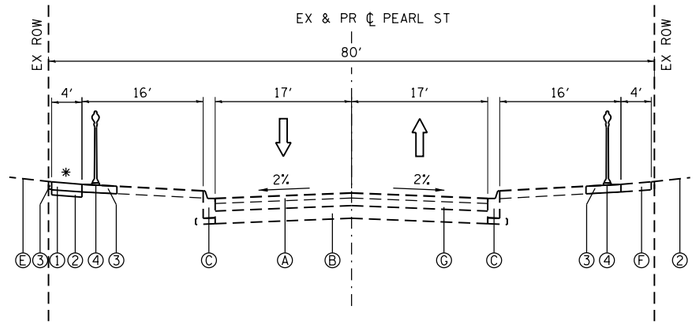
SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	4
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



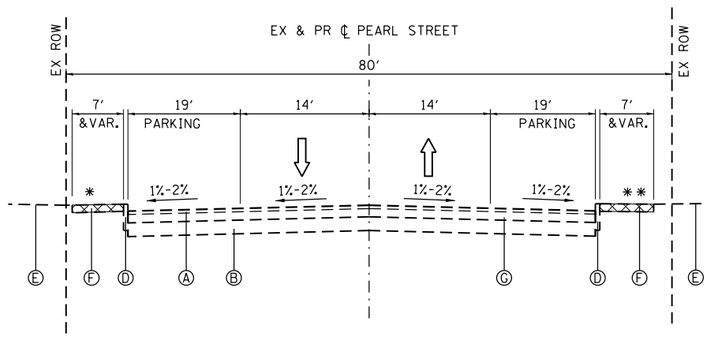
EXISTING TYPICAL SECTION
STA. 101+79.05 TO STA. 112+35
PEARL STREET

* STA. 109+61.5 - STA. 112+35



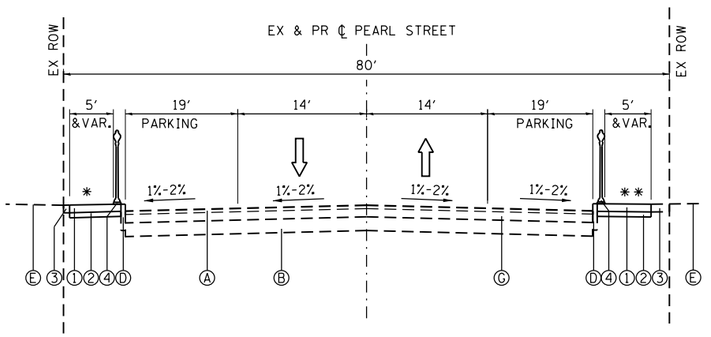
PROPOSED TYPICAL SECTION
STA. 101+79.05 TO STA. 112+35
PEARL STREET

* STA. 109+61.5 - STA. 112+35



EXISTING TYPICAL SECTION
STA. 112+35 TO STA. 117+63.31
PEARL STREET

* STA. 112+35 - STA. 117+63.31
** STA. 113+00 - STA. 117+63.31



PROPOSED TYPICAL SECTION
STA. 112+35 TO STA. 117+63.31
PEARL STREET

* STA. 112+35 - STA. 117+63.31
** STA. 113+00 - STA. 117+63.31

EXISTING LEGEND

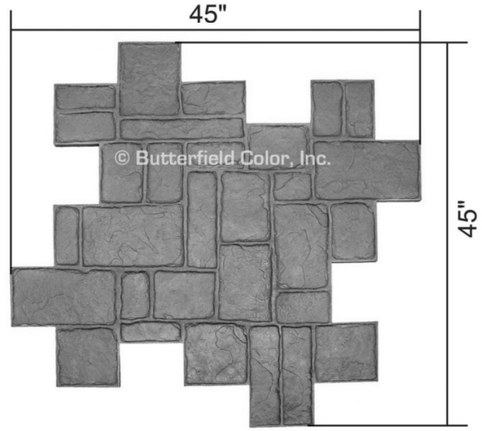
- (A) HOT-MIX ASPHALT RESURFACING, VARIES 2''-6''
- (B) AGGREGATE BASE COURSE, VARIES 4''-6½''
- (C) COMBINATION CONCRETE CURB & GUTTER
- (D) CONCRETE CURB, TYPE B
- (E) EXISTING GROUND
- (F) PORTLAND CEMENT CONCRETE SIDEWALK
- (G) CONCRETE BASE COURSE, VARIES 5''-7''

INDICATES SIDEWALK REMOVAL

PROPOSED LEGEND

- (1) PCC SIDEWALK, 5'', SPECIAL
- (2) SUBBASE GRANULAR MATERIAL, TYPE B
- (3) SODDING, SALT TOLERANT
- (4) PROPOSED LIGHT POLE

PCC SIDEWALK SPECIAL SAMPLE PATTERN



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HRGreen.com
Illinois Professional Design Firm
184-001322

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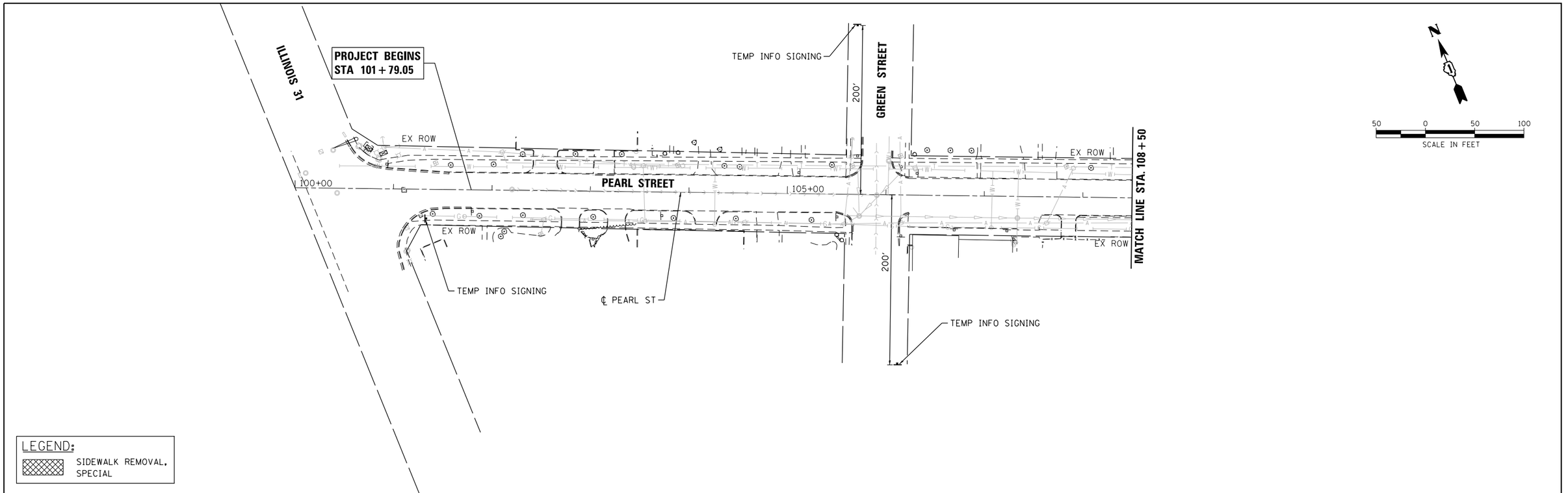
	DRAWN - DMS	REVISED -	
PLOT SCALE =	CHECKED - AC	REVISED -	
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -	

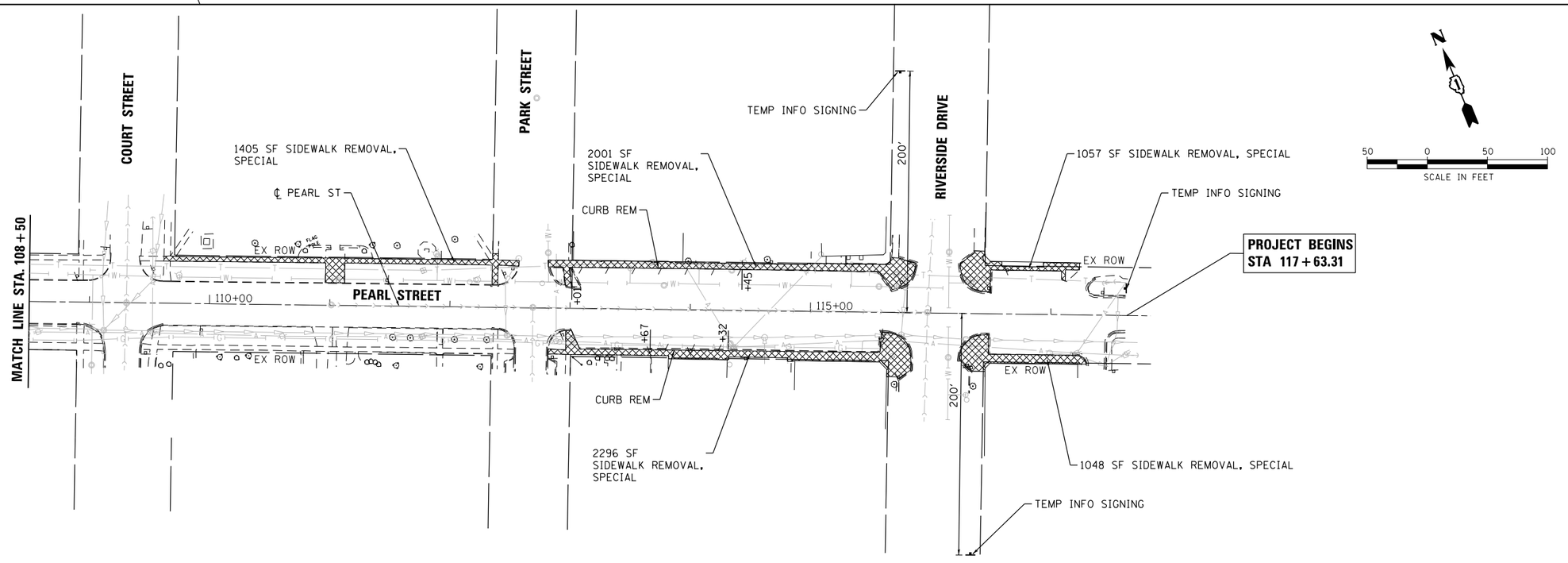
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
PEARL STREET

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

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	5
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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Illinois Professional Design Firm
184-001322

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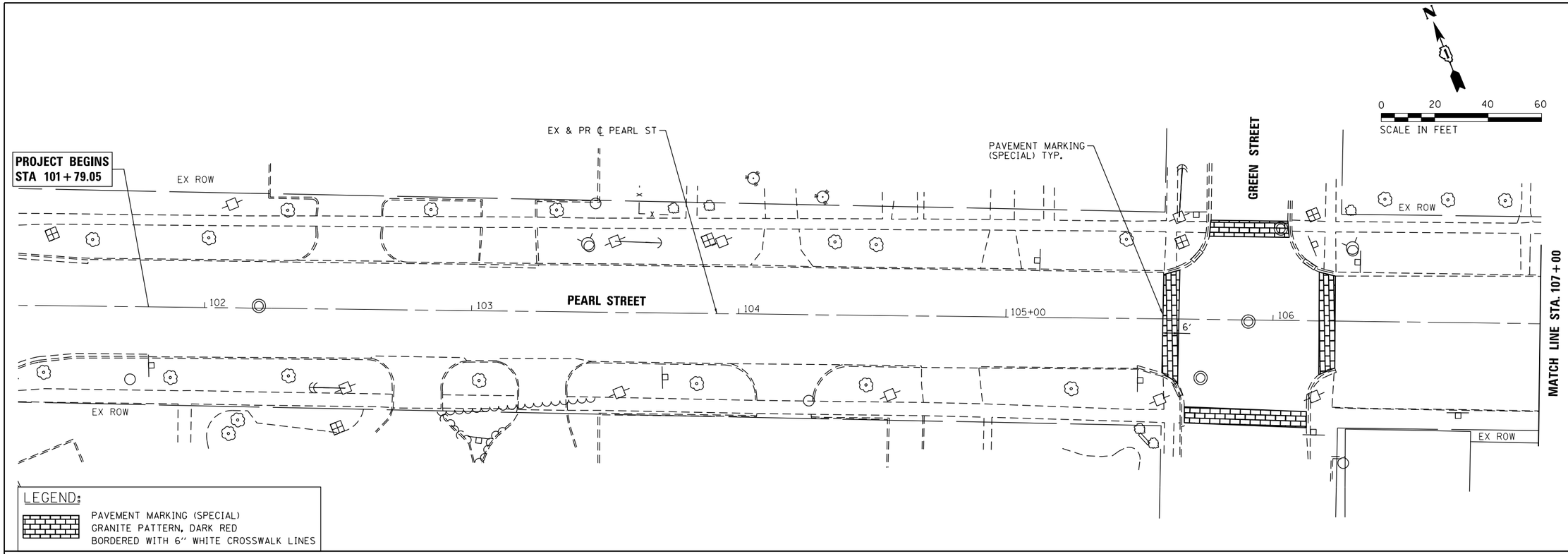
	DRAWN - DMS	REVISED -
PLOT SCALE =	CHECKED - AC	REVISED -
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -

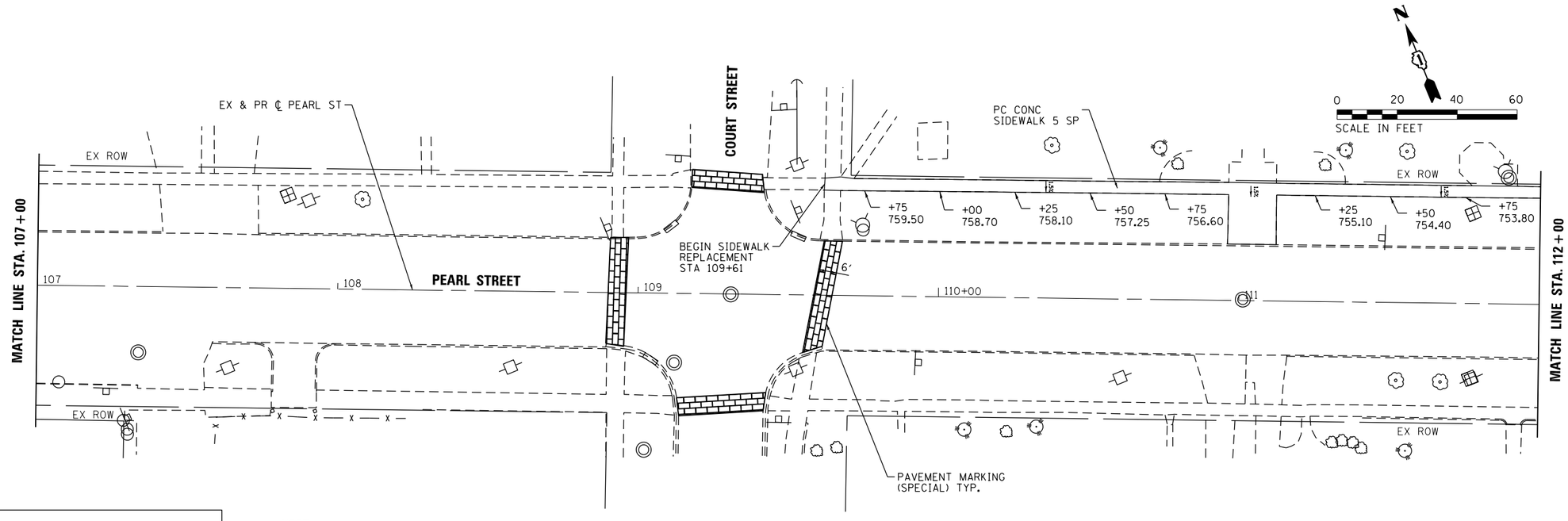
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
PEARL STREET

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 101+79.05 TO STA. 117+63.31

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	6
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTE:
ALL ELEVATIONS ARE TO FINISHED
GRADE OF PROPOSED SIDEWALK

HRG PROJECT NO.: 180999
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184-001322

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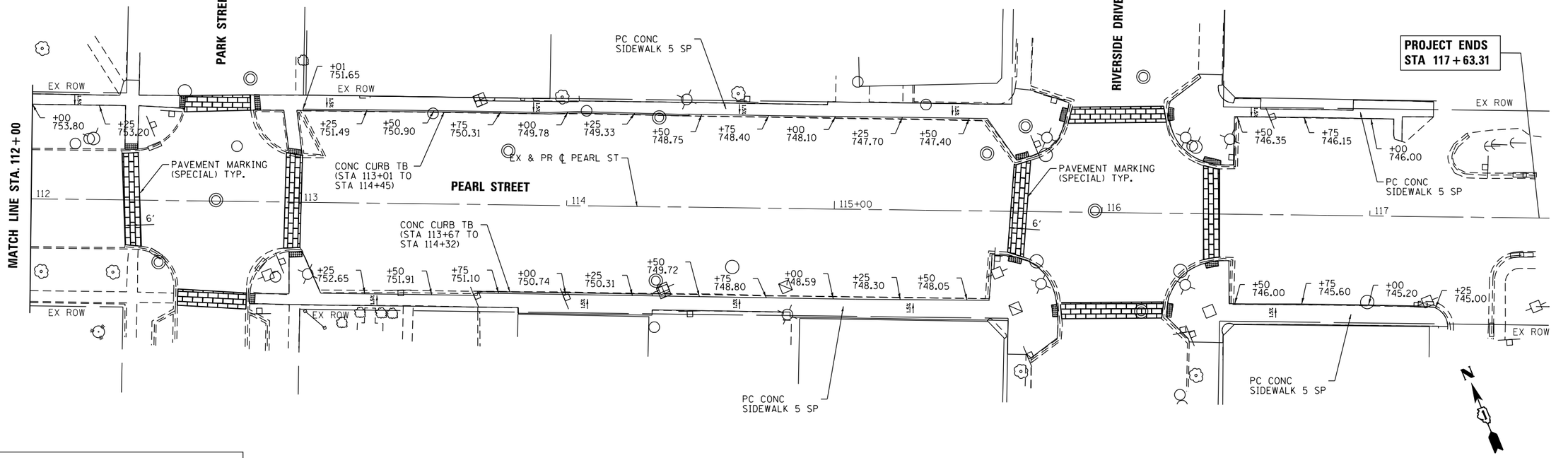
	DRAWN - DMS	REVISED -
PLOT SCALE =	CHECKED - AC	REVISED -
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
PEARL STREET

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 101+79.05 TO STA. 112+00

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	7
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

PAVEMENT MARKING (SPECIAL) GRANITE PATTERN, DARK RED BORDERED WITH 6" WHITE CROSSWALK LINES

NOTE:
ALL ELEVATIONS ARE TO FINISHED GRADE OF PROPOSED SIDEWALK

HRG PROJECT NO.: 180999
HRG PROJ. CONTACT:
FILE NAME: 180999-sht-plan20-02.dgn
PLOT DRIVER: IL_pdf.bw.pltcfg
PEN TABLE: plotlabel.tbl

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PLOT SCALE =	CHECKED - AC	REVISED -
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
PEARL STREET

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 112+00 TO STA. 117+63.31

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
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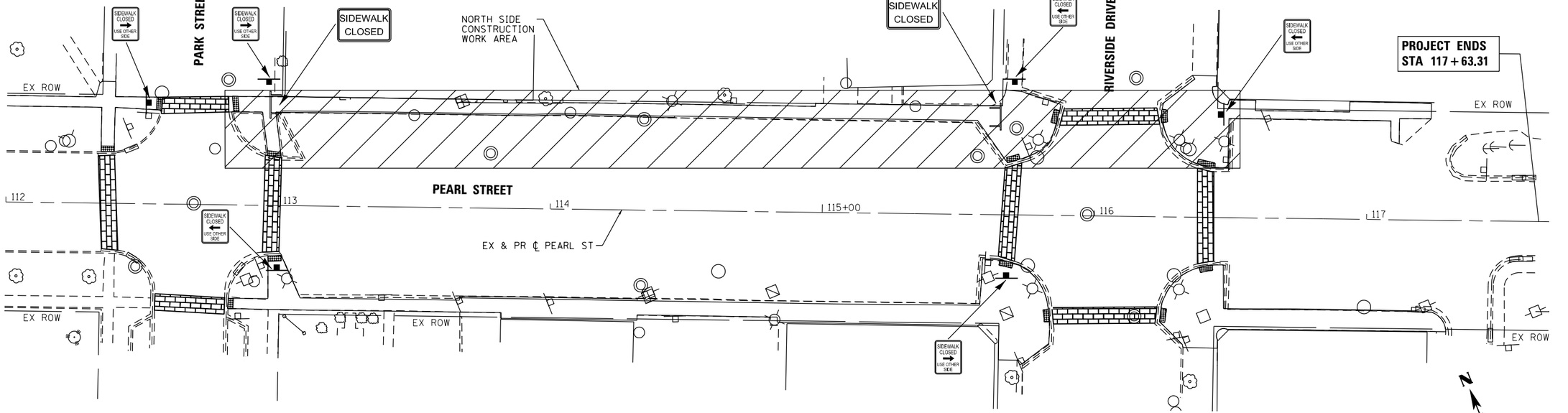
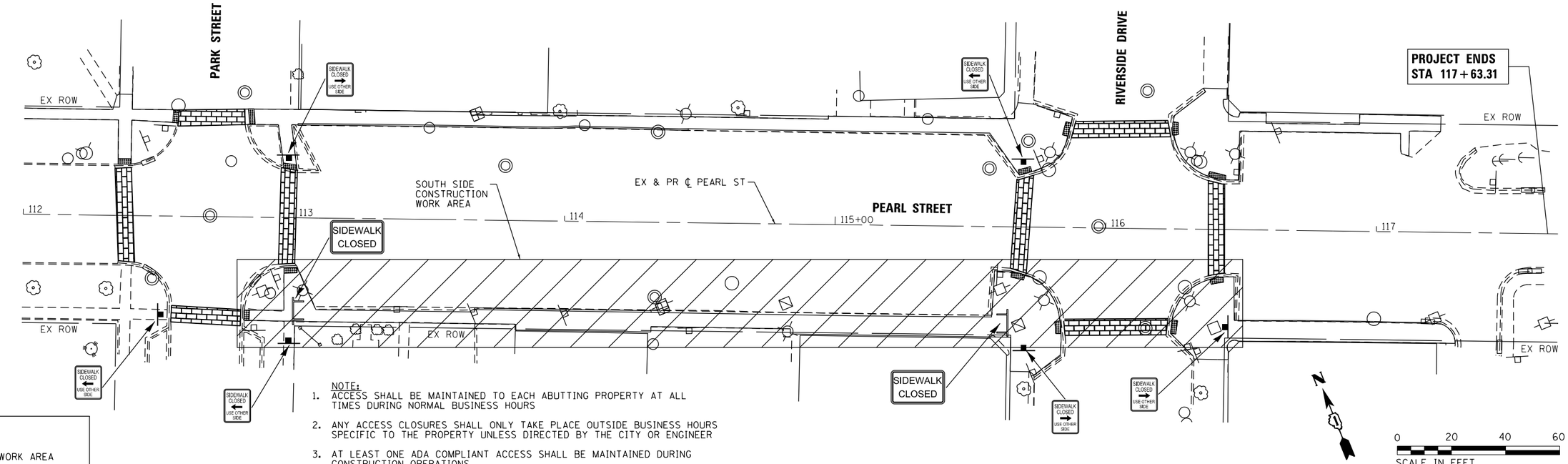
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:

WORK AREA

NOTE:
1. ACCESS SHALL BE MAINTAINED TO EACH ABUTTING PROPERTY AT ALL TIMES DURING NORMAL BUSINESS HOURS
2. ANY ACCESS CLOSURES SHALL ONLY TAKE PLACE OUTSIDE BUSINESS HOURS SPECIFIC TO THE PROPERTY UNLESS DIRECTED BY THE CITY OR ENGINEER
3. AT LEAST ONE ADA COMPLIANT ACCESS SHALL BE MAINTAINED DURING CONSTRUCTION OPERATIONS



LEGEND:

WORK AREA

NOTE:
1. ACCESS SHALL BE MAINTAINED TO EACH ABUTTING PROPERTY AT ALL TIMES DURING NORMAL BUSINESS HOURS
2. ANY ACCESS CLOSURES SHALL ONLY TAKE PLACE OUTSIDE BUSINESS HOURS SPECIFIC TO THE PROPERTY UNLESS DIRECTED BY THE CITY OR ENGINEER
3. AT LEAST ONE ADA COMPLIANT ACCESS SHALL BE MAINTAINED DURING CONSTRUCTION OPERATIONS

HRG PROJECT NO.: I80999
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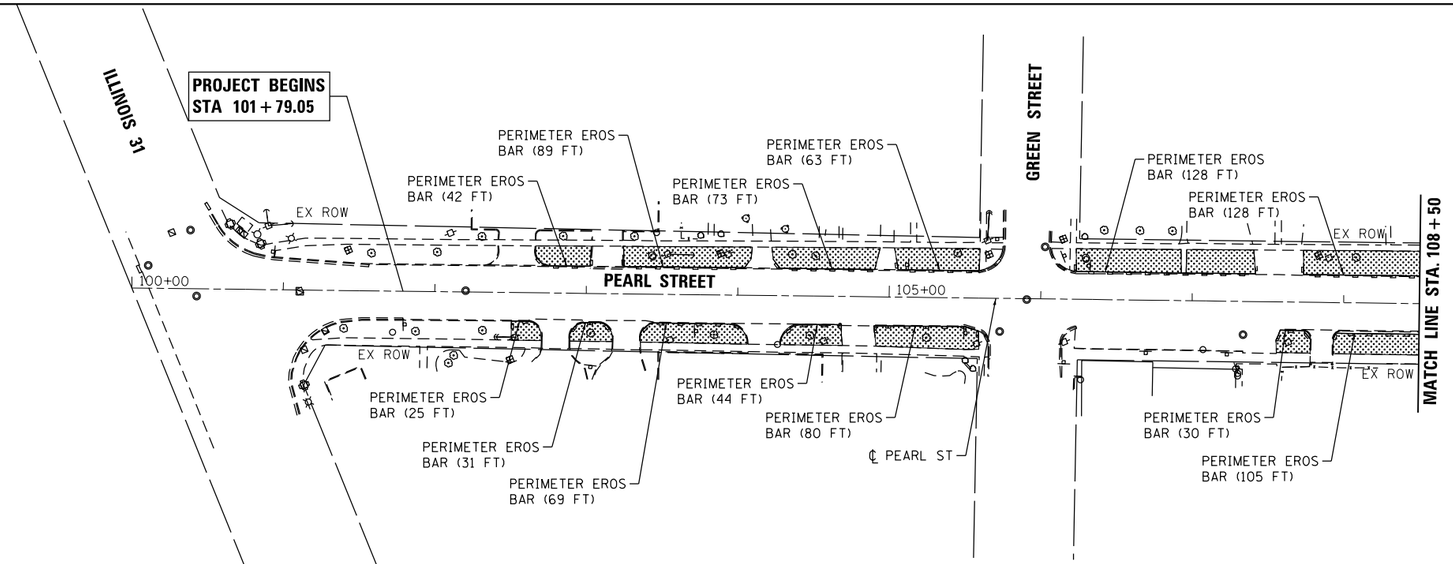
PLOT SCALE =	CHECKED - AC	REVISED -	
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -	

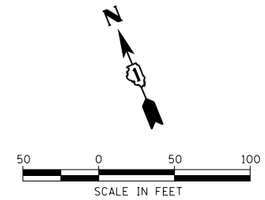
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF PEDESTRIAN TRAFFIC
PEARL STREET

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 112+00 TO STA. 117+63.31

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	9
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

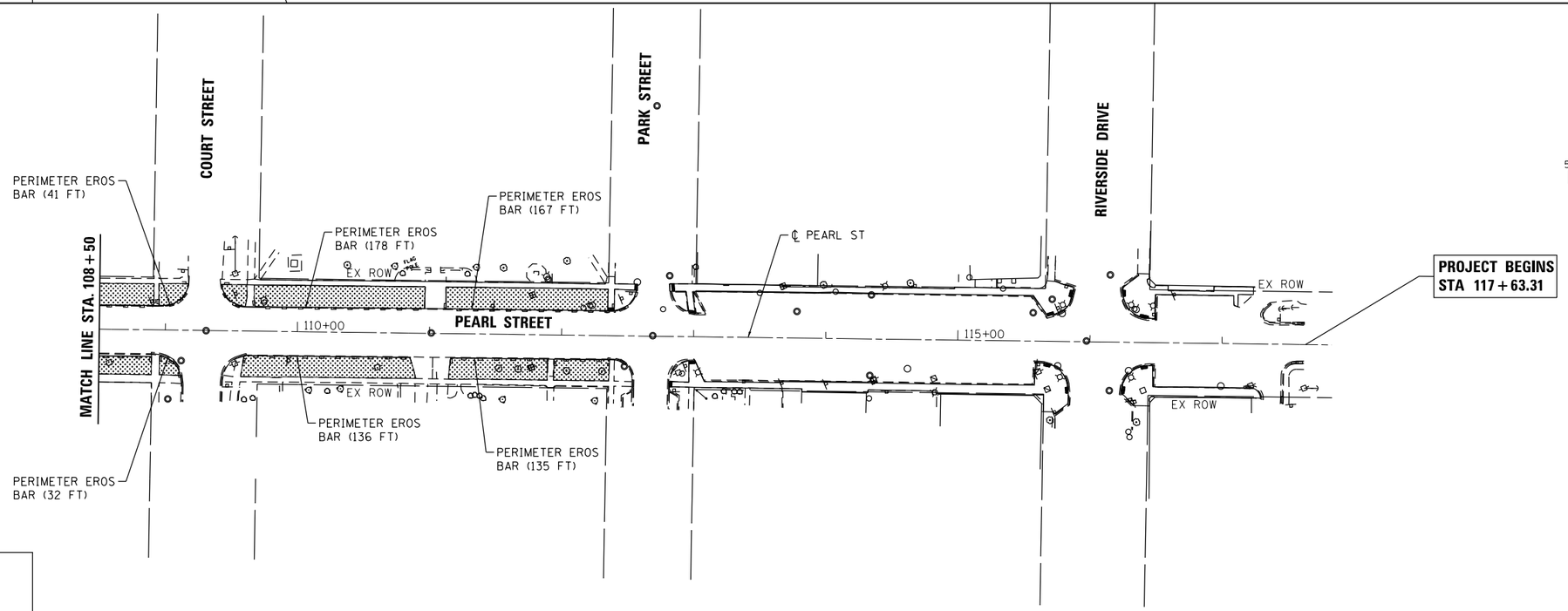


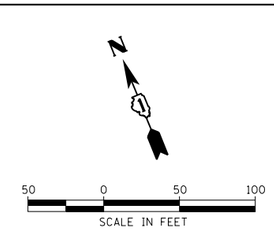


LEGEND:

TOPSOIL F&P 4 INCH SODDING, SALT TOLERANT

PERIMETER EROSION BARRIER





LEGEND:

TOPSOIL F&P 4 INCH SODDING, SALT TOLERANT

PERIMETER EROSION BARRIER

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PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
PEARL STREET

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 101+79.05 TO STA. 117+63.31

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
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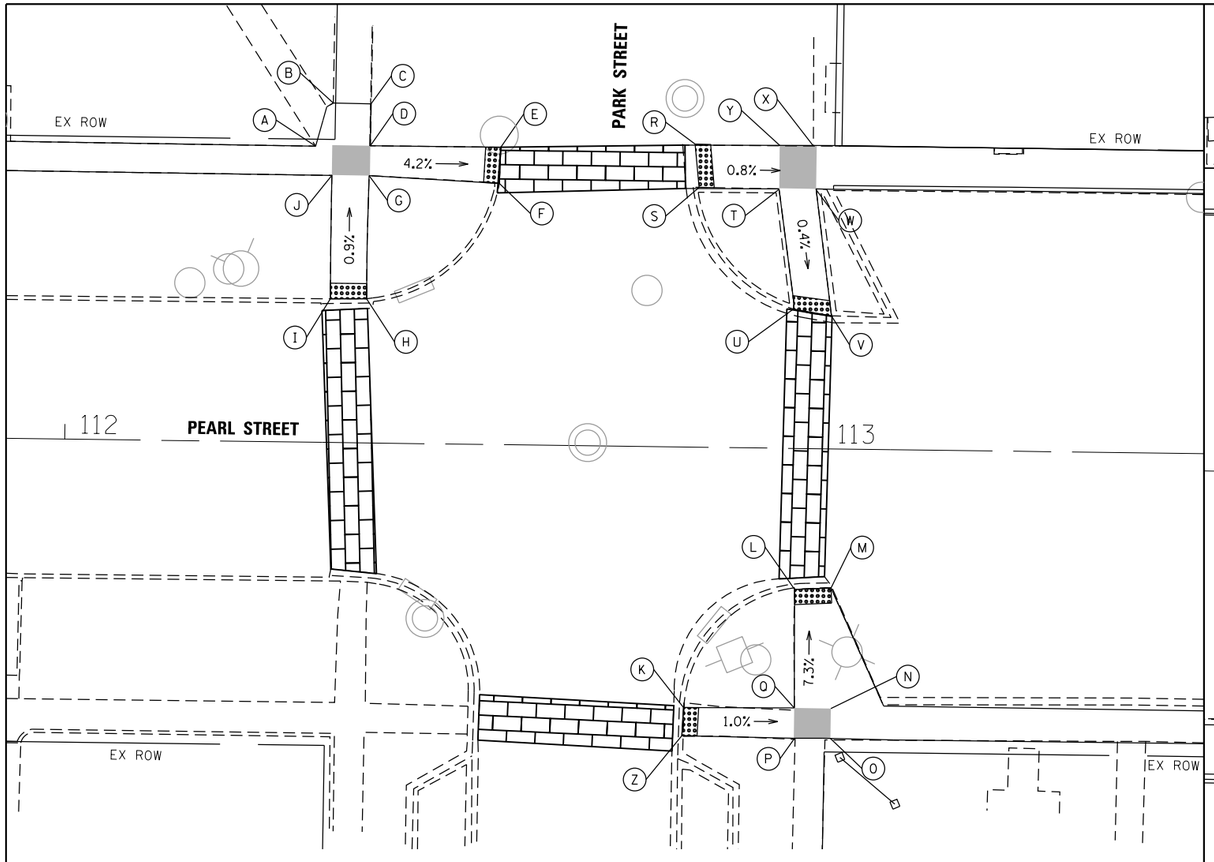
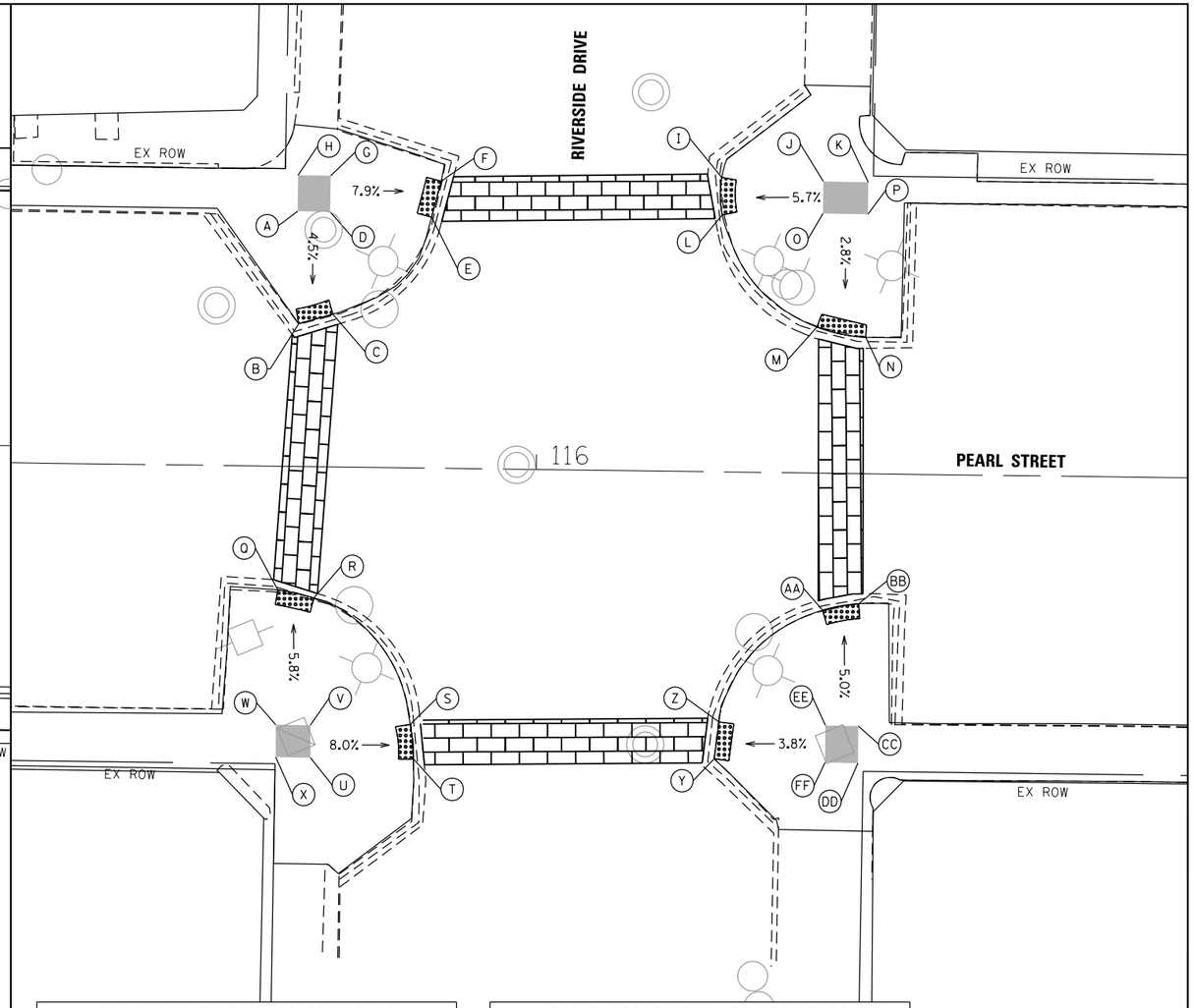
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





POINT DESCRIPTION PARK ST				
POINT	STATION	OFFSET	ELEV.	REMARK
A	112+32.6	39.1' LT	752.55	MATCH EX
B	112+34.9	44.8' LT	752.32	MATCH EX
C	112+39.8	44.8' LT	752.25	MATCH EX
D	112+39.8	39.2' LT	752.45	TURNING SP.
E	112+57.1	39.3' LT	751.70	
F	112+56.9	34.5' LT	751.80	
G	112+39.7	35.3' LT	752.50	TURNING SP.
H	112+39.6	19.0' LT	752.60	
I	112+34.8	19.0' LT	752.70	
J	112+34.8	35.2' LT	752.50	TURNING SP.
K	112+82.1	34.4' RT	753.50	
L	112+96.9	18.6' RT	752.10	
M	113+01.4	18.4' RT	752.04	
N	113+01.5	34.2' RT	753.20	TURNING SP.
O	113+01.6	38.2' RT	753.19	TURNING SP.
P	112+96.8	38.2' RT	753.37	TURNING SP.
Q	112+96.7	34.3' RT	753.34	TURNING SP.

POINT DESCRIPTION PARK ST				
POINT	STATION	OFFSET	ELEV.	REMARK
R	112+82.7	40.0' LT	751.82	
S	112+83.3	34.3' LT	751.82	
T	112+93.9	34.2' LT	751.77	TURNING SP.
U	112+95.9	18.4' LT	751.70	
V	113+01.0	17.6' LT	751.70	
W	112+98.8	34.3' LT	751.71	TURNING SP.
X	112+98.3	39.9' LT	751.71	TURNING SP.
Y	112+93.9	40.0' LT	751.73	TURNING SP.
Z	112+81.9	38.1' RT	753.60	

POINT DESCRIPTION RIVERSIDE DR				
POINT	STATION	OFFSET	ELEV.	REMARK
A	115+67.5	34.3' LT	747.10	TURNING SP.
B	115+67.8	19.2' LT	746.50	
C	115+72.4	20.5' LT	746.40	
D	115+71.9	34.3' LT	747.00	TURNING SP.
E	115+85.5	33.7' LT	746.12	
F	115+86.7	38.6' LT	746.05	
G	115+71.9	39.1' LT	747.15	TURNING SP.
H	115+67.5	39.1' LT	747.20	TURNING SP.
I	116+24.4	39.6' LT	745.53	
J	116+38.1	39.2' LT	746.35	TURNING SP.
K	116+44.1	39.2' LT	746.40	TURNING SP.
L	116+24.5	34.5' LT	745.58	
M	116+37.4	19.6' LT	745.88	
N	116+44.0	18.3' LT	745.92	

POINT DESCRIPTION RIVERSIDE DR				
POINT	STATION	OFFSET	ELEV.	REMARK
O	116+38.1	34.9' LT	746.30	TURNING SP.
P	116+44.1	34.9' LT	746.35	TURNING SP.
Q	115+65.5	16.6' RT	746.50	
R	115+70.4	17.6' RT	746.40	
S	115+83.5	34.5' RT	746.30	
T	115+84.0	39.1' RT	746.32	
U	115+70.1	39.1' RT	747.50	TURNING SP.
V	115+70.1	34.8' RT	747.45	TURNING SP.
W	115+65.4	34.7' RT	747.50	TURNING SP.
X	115+65.5	39.1' RT	747.55	TURNING SP.
Y	116+24.4	38.6' RT	746.08	
Z	116+25.0	33.6' RT	746.03	
AA	116+38.7	18.4' RT	745.80	
BB	116+43.6	17.5' RT	745.80	
CC	116+43.7	33.9' RT	746.60	TURNING SP.
DD	116+43.7	38.9' RT	746.70	TURNING SP.
EE	116+39.3	33.9' RT	746.60	TURNING SP.
FF	116+39.3	38.9' RT	746.65	TURNING SP.

LEGEND

DETECTABLE WARNINGS

(AA) POINT

0 10 20 30

SCALE IN FEET

LEGEND

TURNING SPACE

DETECTABLE WARNINGS

(AA) POINT

0 10 20 30

SCALE IN FEET

HRG PROJECT NO.: 180999
HRG PROJ. CONTACT:
FILE NAME: 180999-sht-swramps-0i.dgn
PLOT DRIVER: IL_pdf.bw.pltcfg
PEN TABLE: plotlabel.tbl

HRGreen.com
Illinois Professional Design Firm
184-001322

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	DRAWN - DMS	REVISED -	
PLOT SCALE =	CHECKED - AC	REVISED -	
PLOT DATE = 3/29/2019	DATE - 2/25/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS
PEARL STREET

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

F.A.U RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	11
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES:

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG PEARL STREET FROM EAST OF IL 31 TO WEST OF FOX RIVER. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE CITY OF McHENRY.

2. THE QUANTITIES OF RACEWAYS WHEREVER 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.

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

4. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES AND TREES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING WORK.

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

6. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, CITY OF McHENRY STANDARDS, NEC AND McHENRY COUNTY CODES.

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

8. GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.

9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.

SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	682
UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2595
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/O	FOOT	51
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	196
LUMINAIRE, LED, SPECIAL	EACH	28
LIGHT POLE, SPECIAL	EACH	28

LEGEND

- PROPOSED LIGHTING UNIT 14 FT. MH, 120V (LINE TO NEUTRAL), LED LUMINAIRE (SPECIAL)
- UNIT DUCT, 600V, 3-1/C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
- ComEd ELECTRIC SERVICE 120/240V, 1Ø, 3 WIRE
- PROPOSED LIGHTING CONTROLLER "LC" 120/240V, 1-Ø, 3 WIRE, 100 AMP, PAD MOUNTED
- RIGID GALVANIZED STEEL CONDUIT
- ELECTRIC CABLE IN CONDUIT 1/C NO. 1/O (XLP-TYPE USE) 3" DIA. GALVANIZED STEEL
- GROUND ROD 5/8" DIA. X 10 FT.

PHOTOMETRIC LUMINAIRE TABLE

MANUFACTURER	DESCRIPTION	LABEL
HOLOPHANE	WFCL2 P30 30K XX L3 HSS	A
HOLOPHANE	WAUE2 P30 30K AS 3	B

EL-01

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = $USER$	DESIGNED - MH	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - BL	REVISED -	
PLOT DATE = $DATE$	DATE - 02-22-19	REVISED -	

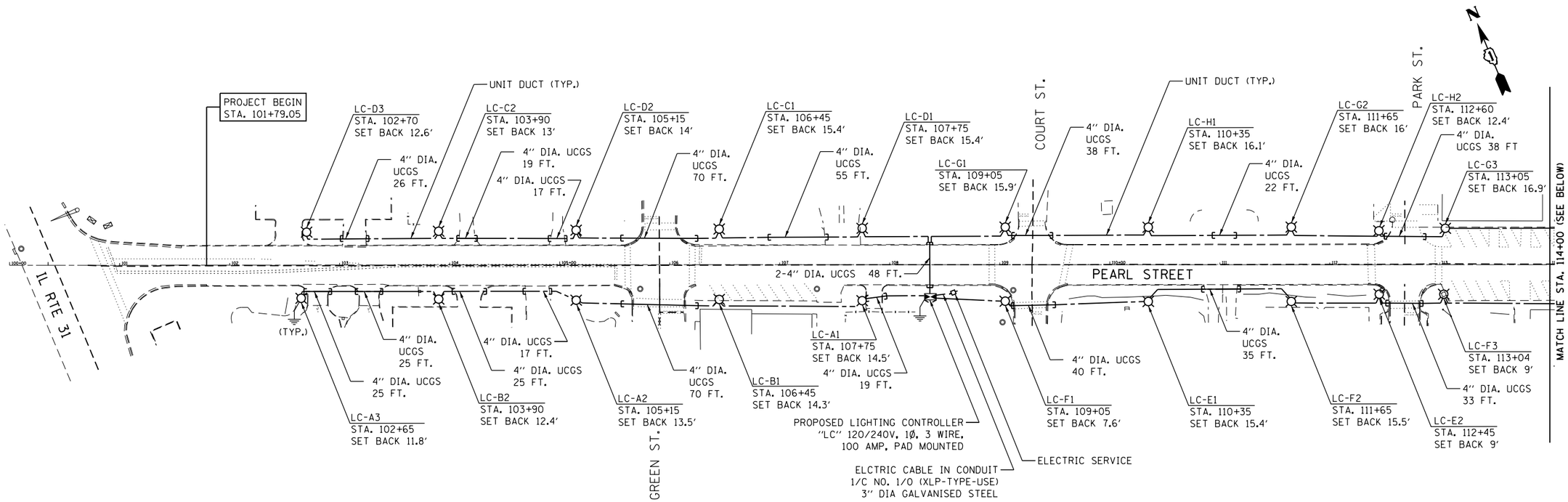
$FILEL$

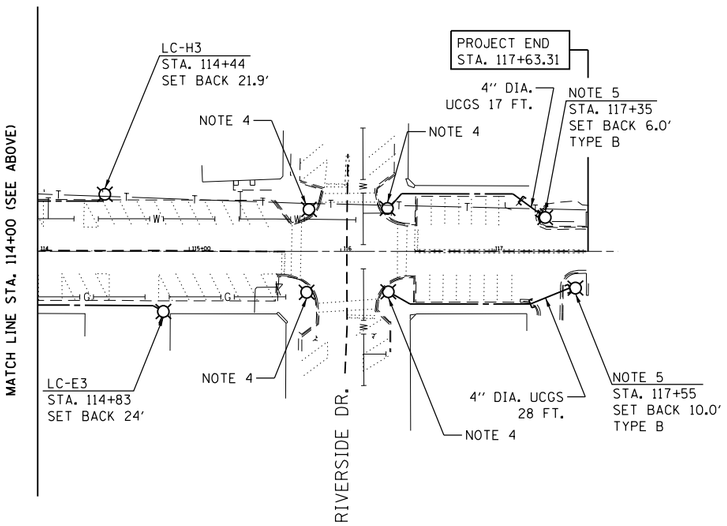
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, LEGEND AND SUMMARY OF QUANTITIES
PEARL STREET – McHENRY

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	12
		CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			





NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET EL-01.
2. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
3. SET BACK IS FROM THE EDGE OF PAVEMENT TO THE CENTER OF LIGHT POLE.
4. EXISTING LIGHTING UNIT SHALL BE REPLACED WITH A NEW LIGHTING UNIT AND THE EXISTING WIRING SHALL REMAIN.
5. PROPOSED LIGHTING UNITS, EAST OF RIVERSIDE DRIVE ON PEARL STREET SHALL BE FED FROM EXISTING LIGHTING CONTROLLER LOCATED ON RIVERSIDE DRIVE, NORTH OF PEARL STREET.
6. ALL LIGHTING UNITS SHALL BE TYPE A, UNLESS OTHERWISE NOTED.

0 50 100 150
SCALE IN FEET

EL-02

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = $USER$	DESIGNED - MH	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - BL	REVISED -	
PLOT DATE = $DATE$	DATE - 02-22-19	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
PEARL STREET – McHENRY

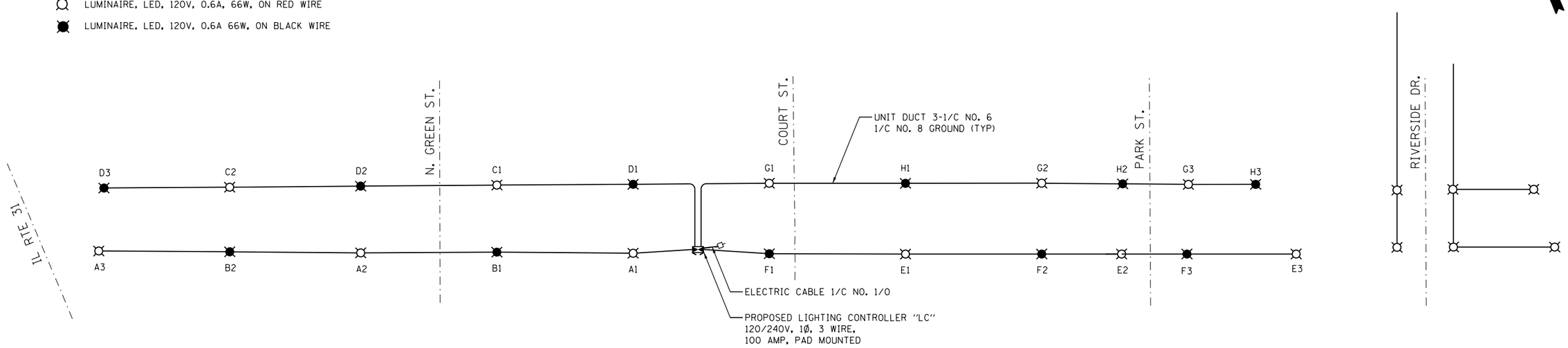
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	13
		CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			

$FILE$

LEGEND:

- LUMINAIRE, LED, 120V, 0.6A, 66W, ON RED WIRE
- LUMINAIRE, LED, 120V, 0.6A 66W, ON BLACK WIRE



LOAD TABLE LIGHTING CONTROLLER "LC"

120/240V AC, 1Ø, 100 AMP WITH 8-30A BKRS.

ON RED WIRE				ON BLACK WIRE			
CIRCUIT	TOTAL LUM.	TOTAL CURRENT IN AMPS	TOTAL WATTAGE	CIRCUIT	TOTAL LUM.	TOTAL CURRENT IN AMPS	TOTAL WATTAGE
A	3	1.8	198	B	2	1.2	132
C	2	1.2	132	D	3	1.8	198
E	3	1.8	198	F	3	1.8	198
G	3	1.8	198	H	3	1.8	198
TOTAL		6.6	726	TOTAL		6.6	726

TOTAL LOAD IN WATTS 1452
TOTAL LOAD IN AMPS 13.2

EL-03

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = $USER$	DESIGNED - MH	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - BL	REVISED -
PLOT DATE = $DATE$	DATE - 02-22-19	REVISED -

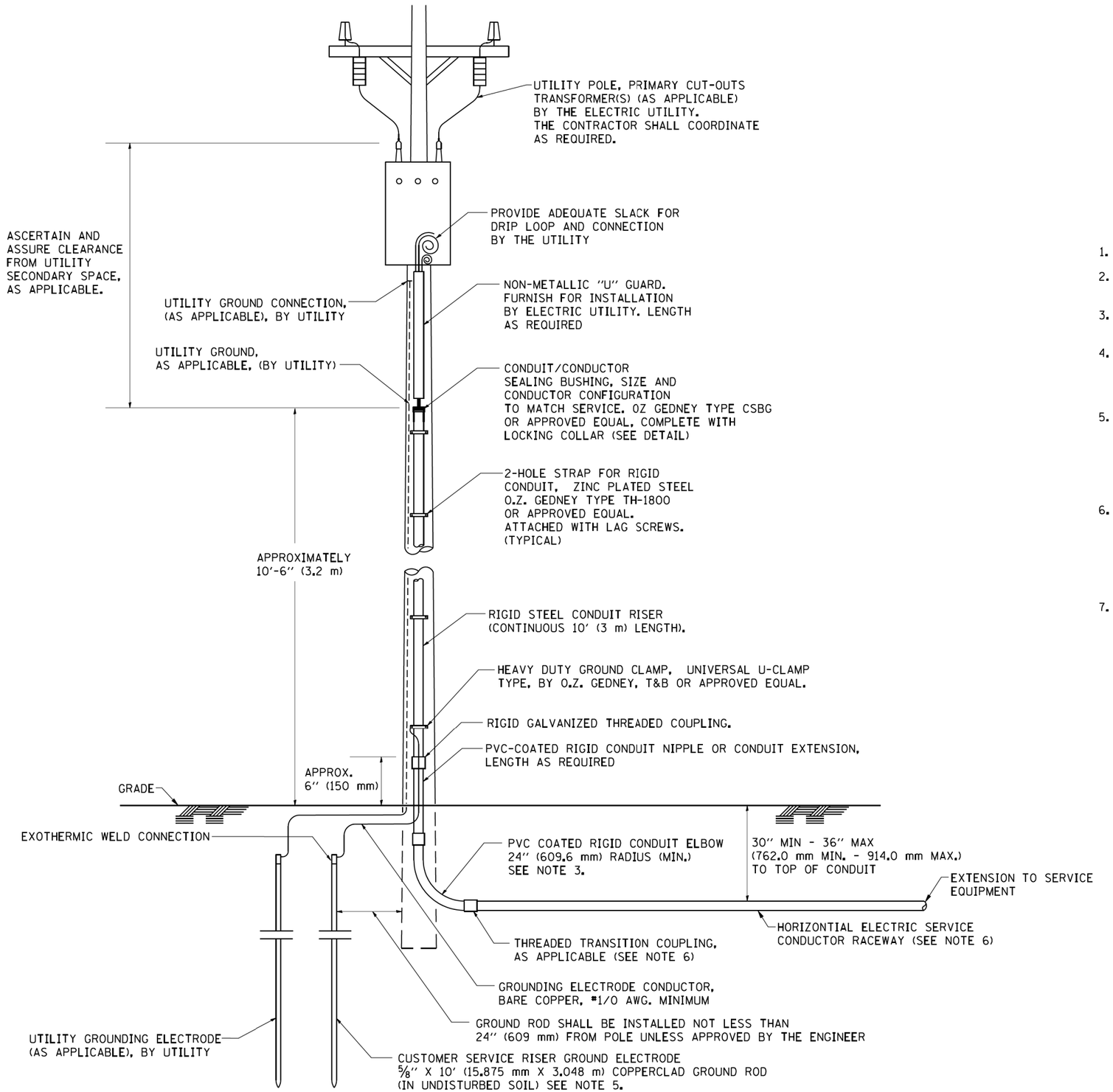
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE WIRING DIAGRAM
PEARL STREET – McHENRY

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	14
		CONTRACT NO. 61F78		
	ILLINOIS	FED. AID PROJECT		

$FILE$

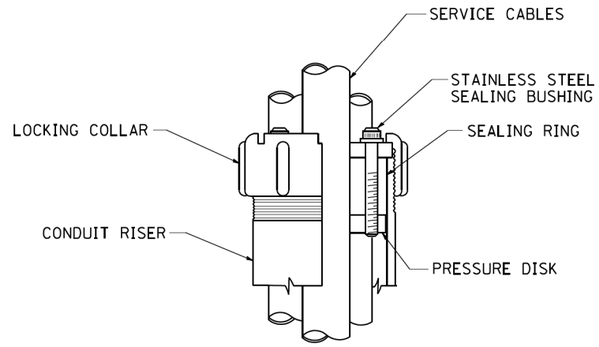


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

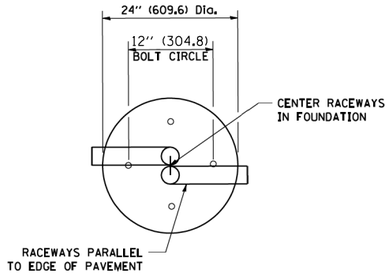
1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
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 BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC 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 METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. 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.



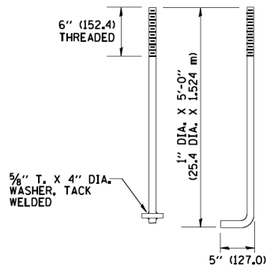
SEALING BUSHING DETAIL

EL-04

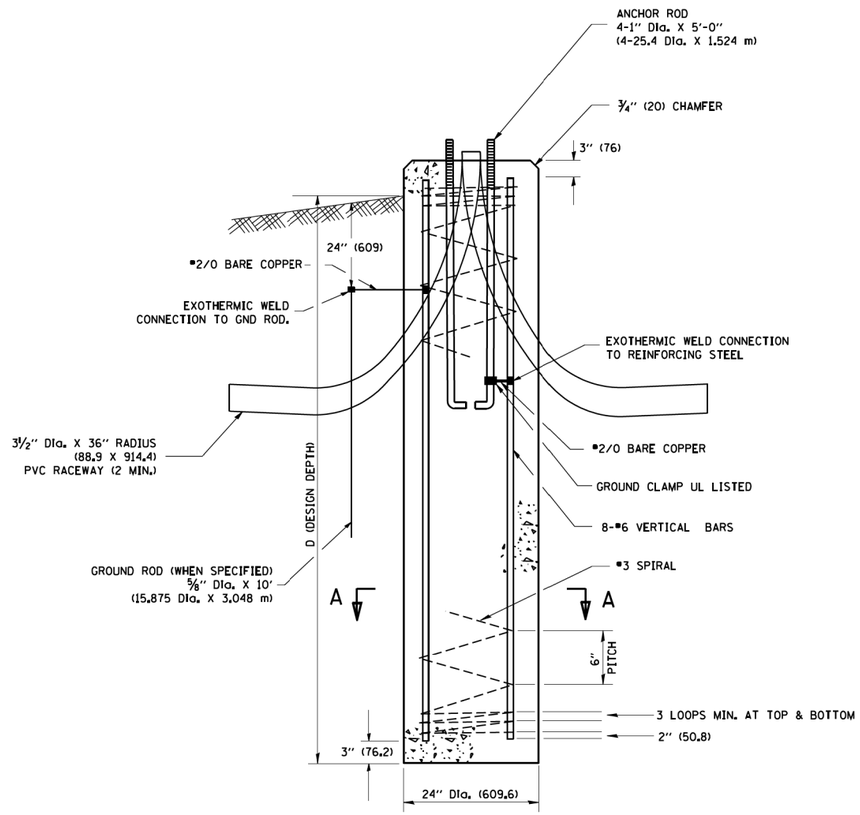
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = gaglianobt	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			0081	18-00084-00-SW	McHENRY	23	15
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - MEA	REVISED -				BE-220	CONTRACT NO. 61F78		
	PLOT DATE = 1/4/2008	DATE 02-22-19	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



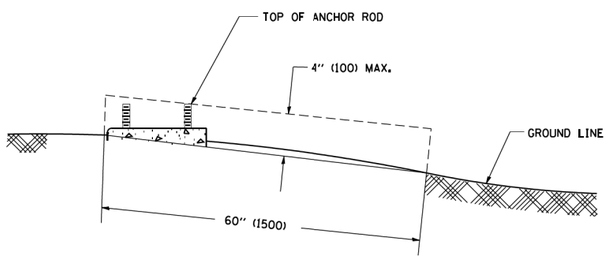
TOP VIEW



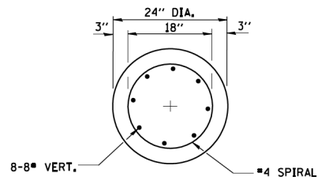
ANCHOR BOLT DETAIL



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 3/4-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 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
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.
15. THE CONTRACTOR SHALL DETERMINE DEPTH OF THE POLE FOUNDATION BASED ON SOIL CONDITIONS.

EL-05

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Downers Grove, IL 60515

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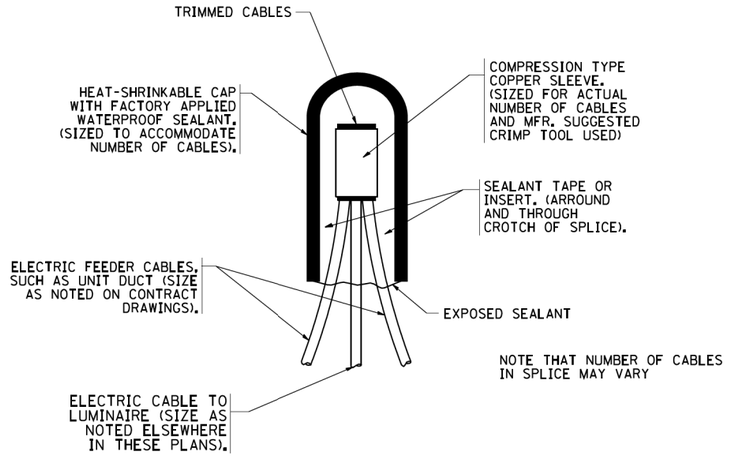
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE - 02-22-19	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

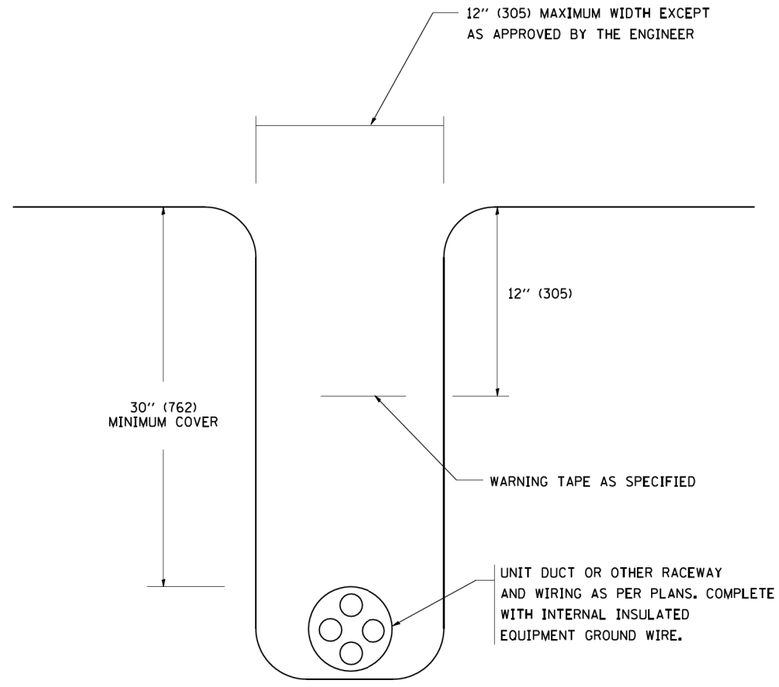
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	16
		CONTRACT NO. 61F78		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



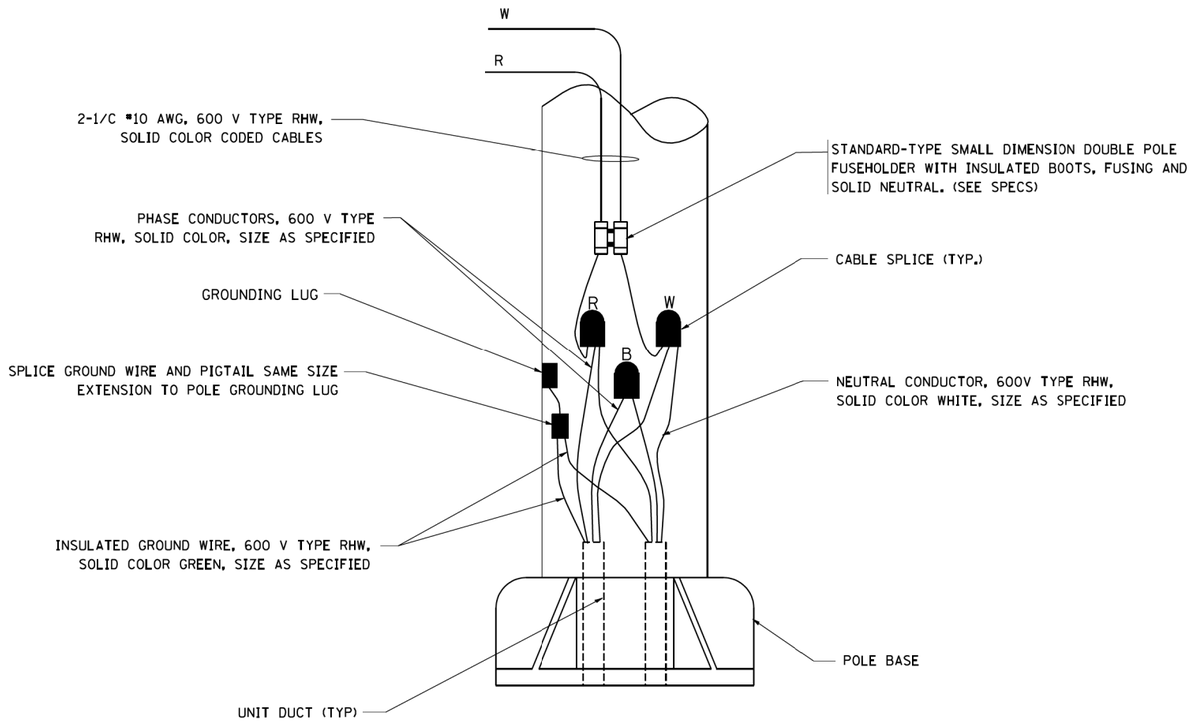
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

EL-06

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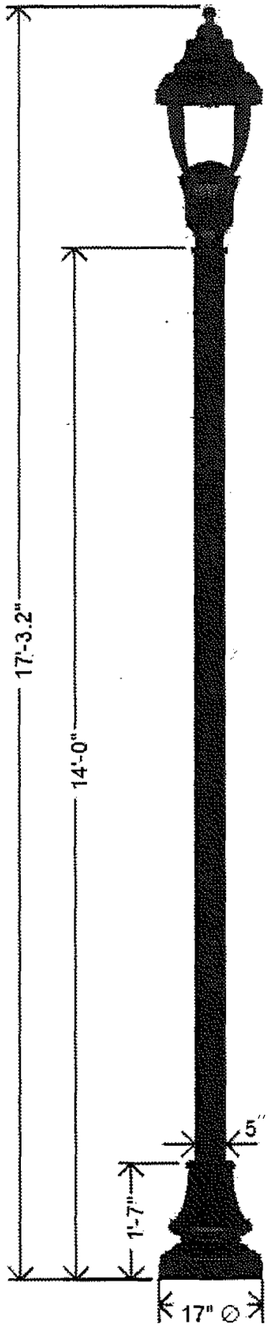
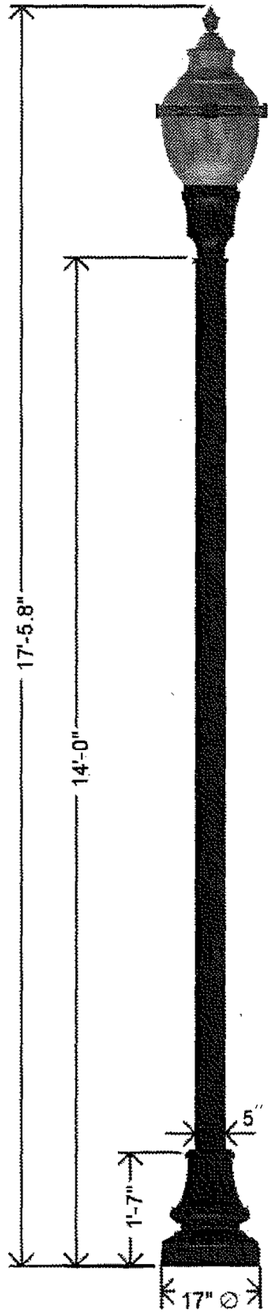
		DRAWN -	REVISED -						0081	18-00084-00-SW	McHENRY	23	17
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -							BE-702	CONTRACT NO. 61F78		
	PLOT DATE = 1/4/2008	DATE - 02-22-19	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





NOTES:

1. THE LIGHT POST ASSEMBLY SHALL MEET AASHTO DESIGN CRITERIA.
2. THE BOLT CIRCLE ON THE BASE PLATE SHALL CONFORM WITH THE BOLT CIRCLE ON LIGHT POLE FOUNDATION WHICH IS 14'' DIA AS SHOWN ABOVE.
3. THE LIGHT POST SHALL BE ERECTED AND LUMINAIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
4. EACH LIGHT POLE SHALL BE GROUNDED IN STRICT CONFORMANCE WITH NEC.
5. THE LIGHT POST ASSEMBLY BASE, POST SHAFT AND LUMINAIRE SHALL BE PAINTED IN POWDER COAT GREEN POLYESTER FINISH.
6. THE POST/LUMINAIRE MANUFACTURER SHALL SUBMIT COLOR SAMPLE TO THE ENGINEER. THE COLOR SAMPLE MUST BE APPROVED BY THE ENGINEER AS COORDINATED WITH THE OWNER.
7. THE LIGHT POST AND LUMINAIRE SHALL BE SET PLUMB ON FOUNDATION.
8. THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION AND LENGTH WITH ENGINEER.
9. PLACEMENT OF ALL LIGHT POLES SHALL MEET ADA REQUIREMENTS.
10. THE LIGHT POLE SHALL BE LISTED OR CLASSIFIED BY A UNITED STATES TESTING LABORATORY SUCH AS UL OR ETL OR APPROVED OSHA EQUIVALENT.

EL-07

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

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PLOT SCALE = $SCALE$	CHECKED - BL	REVISED -
PLOT DATE = $DATE$	DATE - 02-22-19	REVISED -

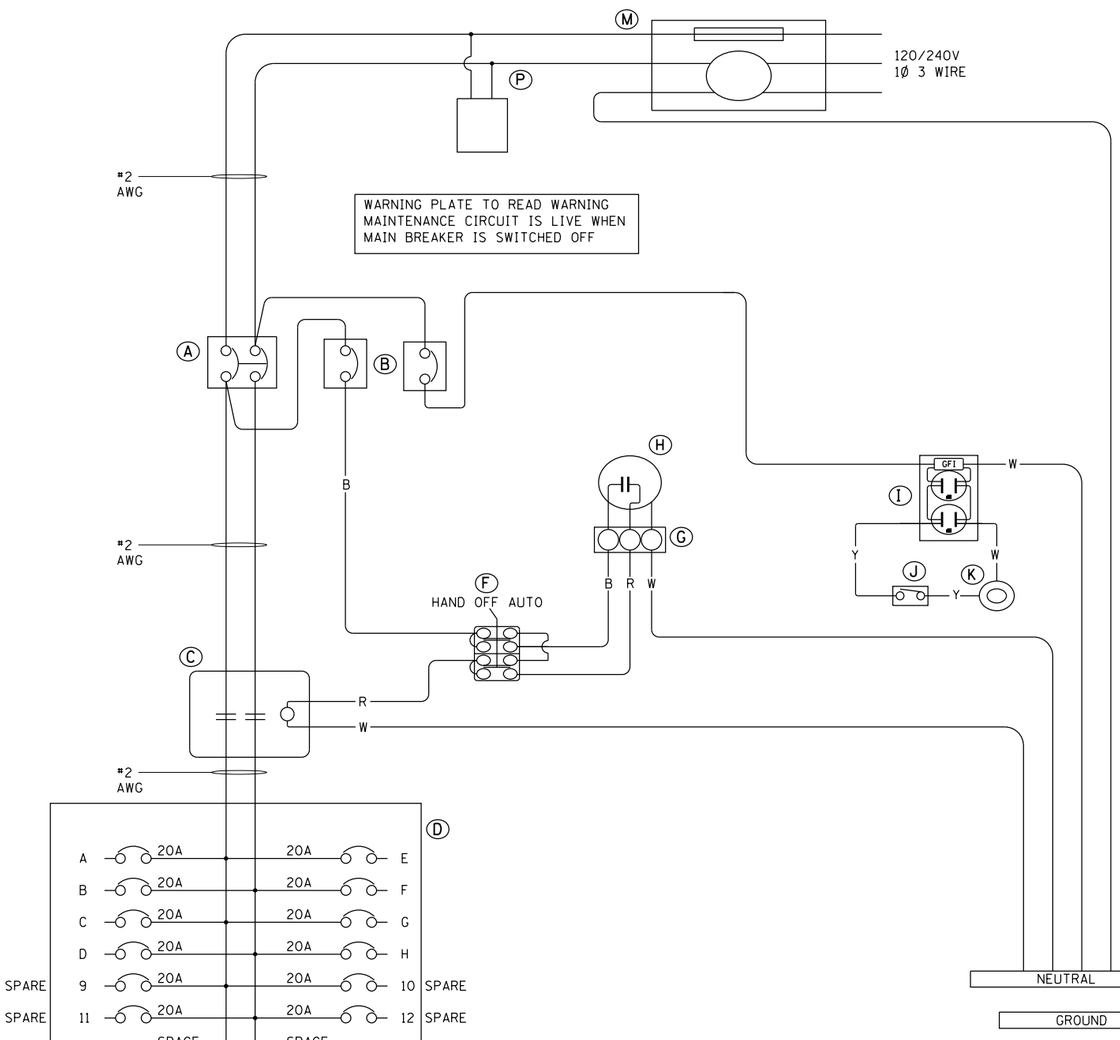
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE DETAILS
PEARL STREET – McHENRY

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	18
		CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			

$FILE$



NOTES:

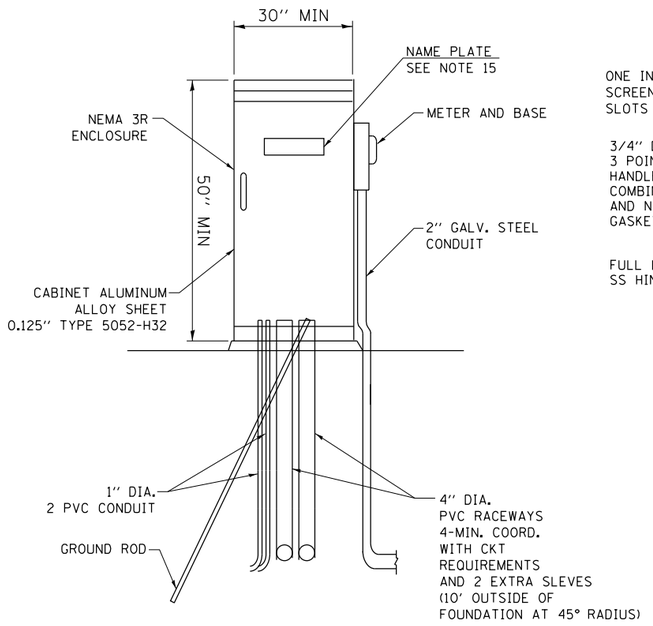
1. ALL POWER WIRING WILL BE RHH/RHW
2. ALL CONTROL WIRING WILL BE #12 MTW
3. WIRE COLORS:
   BL = BLUE BR = BROWN
   W = WHITE DR = ORANGE
   B = BLACK
   R = RED
   Y = YELLOW
   G = GREEN
4. [#] = CKT#

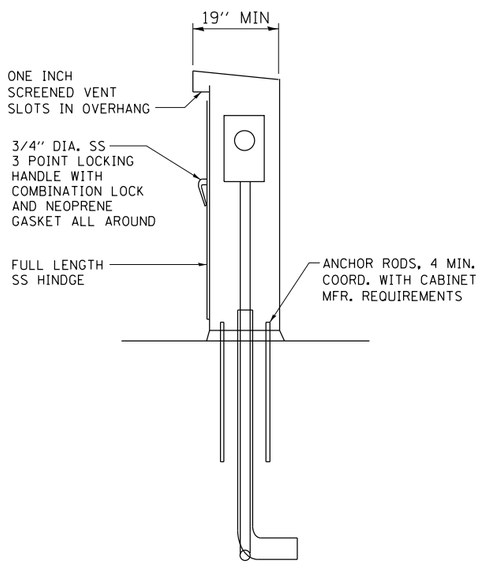
NOTES:

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 AS SPECIFIED. THE FINISH COLOR SHALL BE SATIN 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. 152.4 mm (6") X 279.4 mm (11") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF SCHAUMBURG ROADWAY LIGHTING CONTROLLER" UNLESS OTHERWISE SPECIFIED.
16. SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.
17. A 12"X9"X1" WATERTIGHT POUCH FOR AS BUILT PLANS SHALL BE PROVIDED ON THE DOOR

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
A	1	C.H. FD2100L 2P 100A MAIN BREAKER
B	2	C.H. EHD1020LZ04 1P/20A CTRL/AUX BREAKER
C	1	SQ D 8903S001V03 2P 100A CONTRACTOR
D	1	C.H. 100A M.L.O. BREAKER PANEL W/ QTY (12) 1P 20A BRANCH BREAKERS
E		
F	1	SQ. D 9001KYK111 H.O.A. SWITCH
G	1	CINCH 3 POINT TERMINAL BLOCK
H	1	INTERMATIC K4023C PHOTOCELL
I	1	HUBBELL GFRST201 20A GFCI RECPT.
J	1	MICRO BA-2RQ1-A2 DOOR SWITCH.
K	1	RAB VX100DG LIGHT FIXTURE
L	2	12" x 1" x 1/4" GROUND/ NEUTRAL BUS
M	1	MILBANK U8949-RL-TG-KK METER
N		RESERVED
O		RESERVED
P	1	SPDEE S50A277V2P SURGE ARRESTER

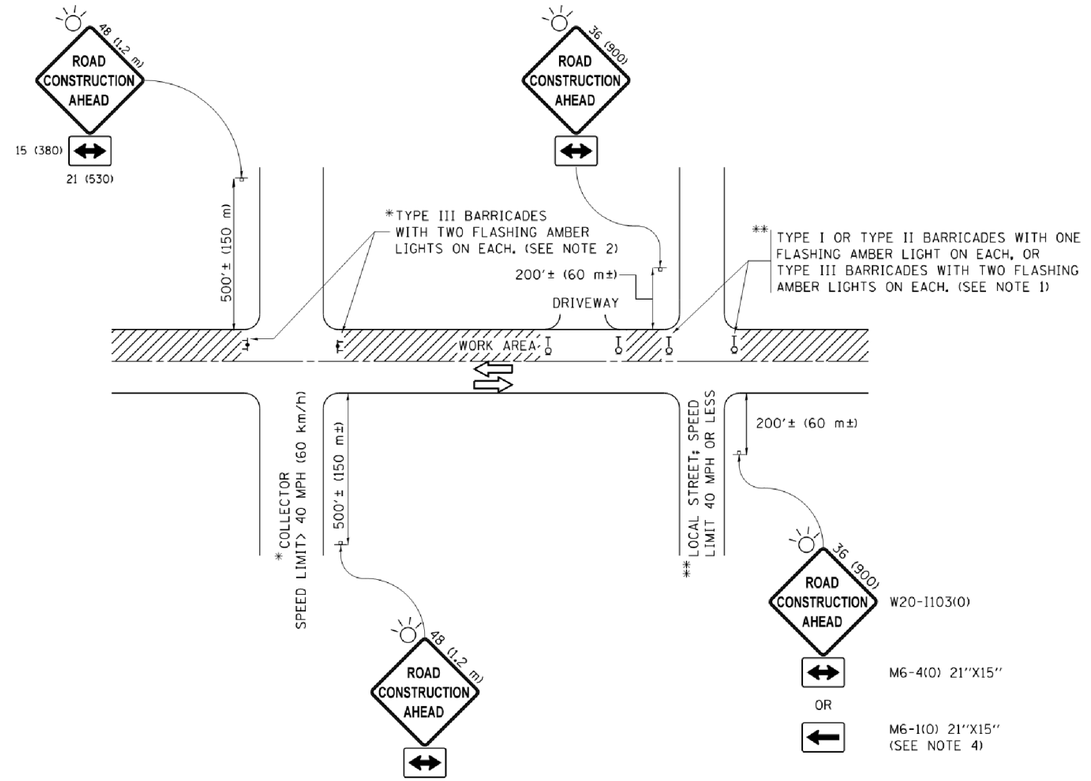




EL-08

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = $USER$	DESIGNED - MH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER SINGLE DOOR		
		DRAWN - SR	REVISED -				
	PLOT SCALE = $SCALE$	CHECKED - BL	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.
$FILE$	PLOT DATE = $DATE$	DATE - 02-22-19	REVISED -				

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	McHENRY	23	19
		CONTRACT NO. 61F78		
		ILLINOIS FED. AID PROJECT		



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
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Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	20
	TC-10	CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			

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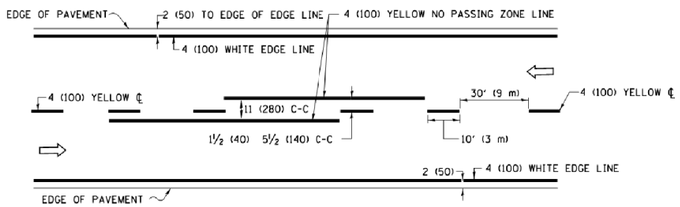
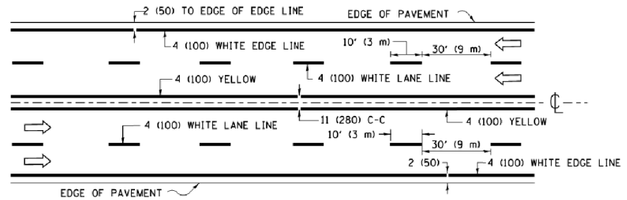
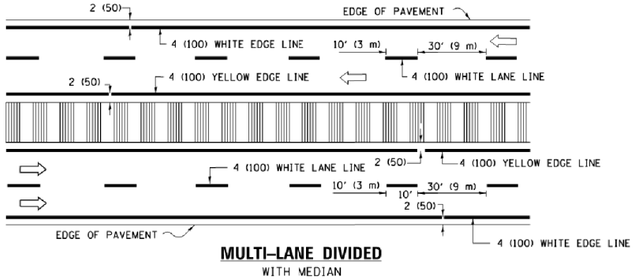


2–LANE ROADWAY

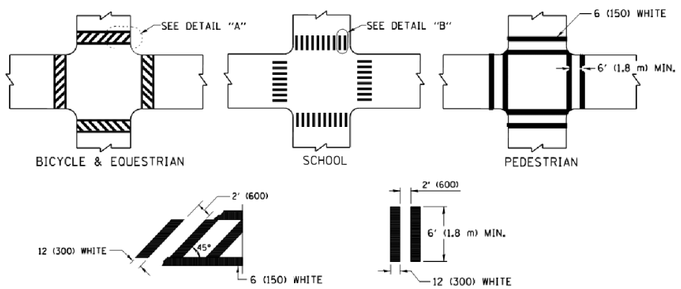


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

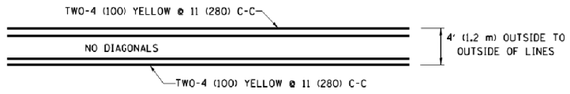
TYPICAL LANE AND EDGE LINE MARKING



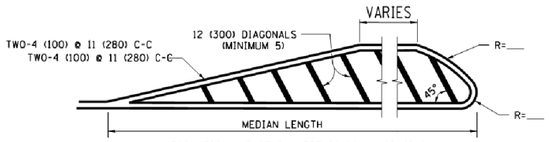
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



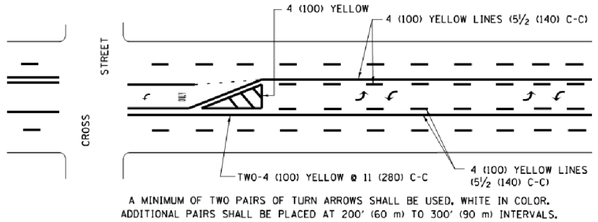
4' (1.2 m) WIDE MEDIANS ONLY



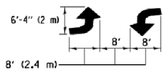
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

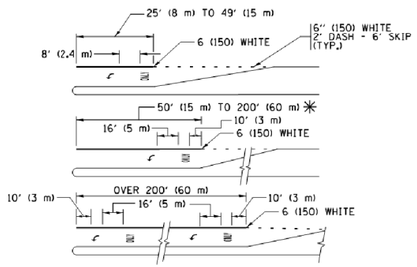


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

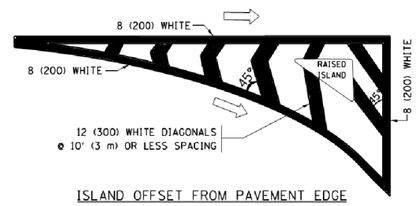


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

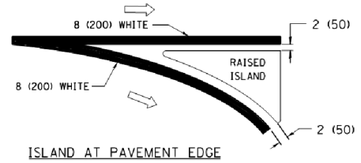
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

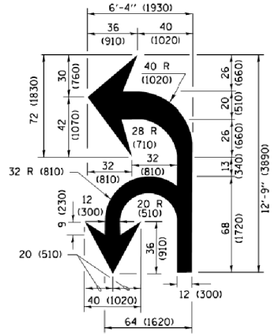


ISLAND OFFSET FROM PAVEMENT EDGE

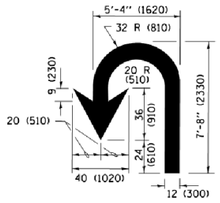


ISLAND AT PAVEMENT EDGE

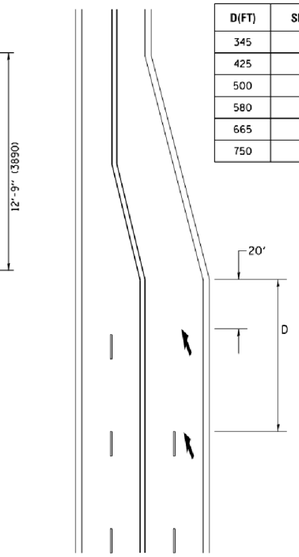
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	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 MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 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 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	21
	TC-13	CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			

180999-sht-det_tc13.dgn

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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

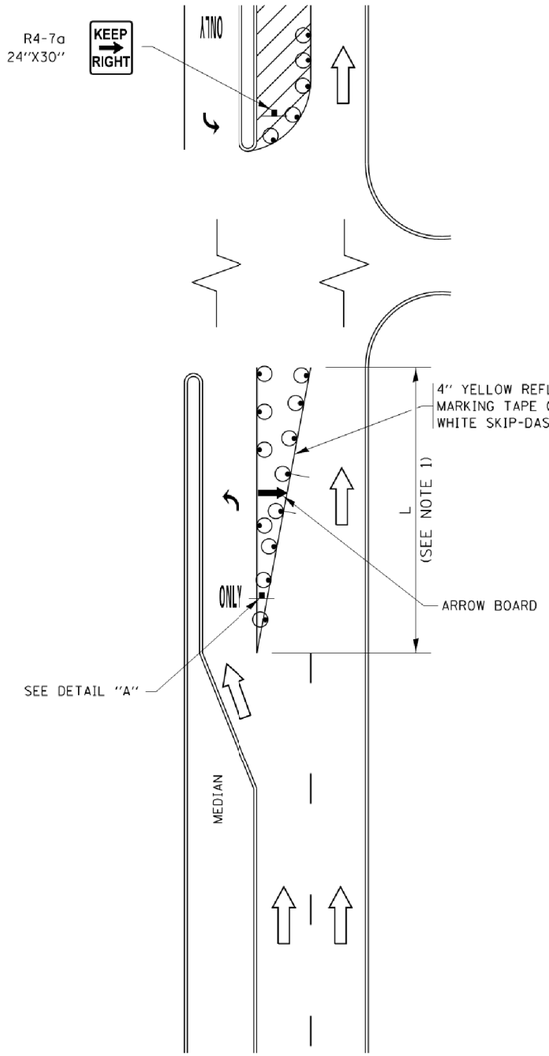


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I10OR 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

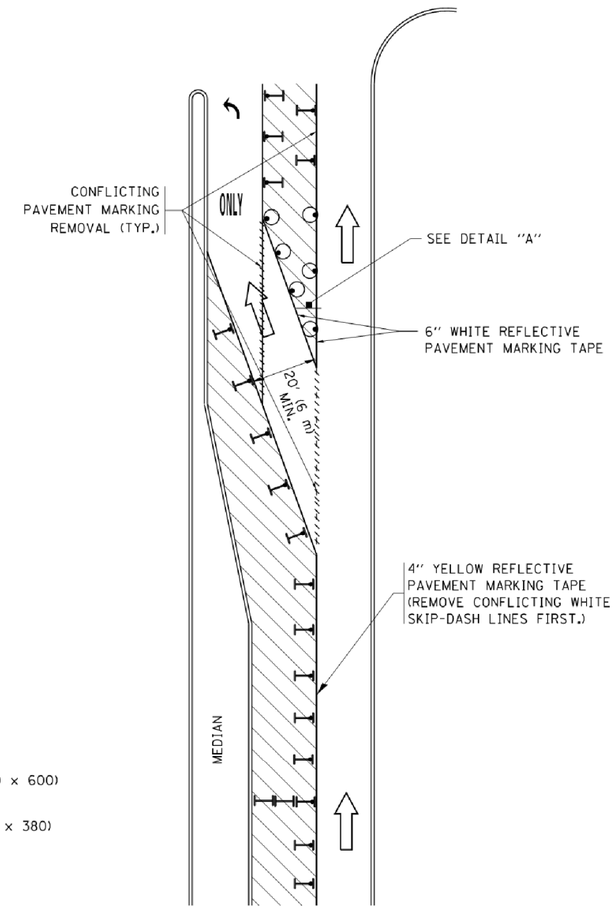
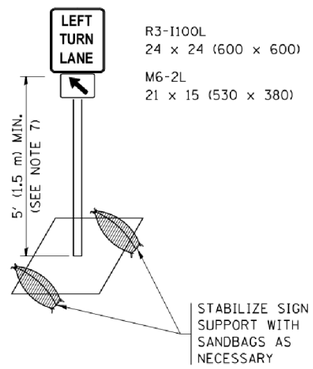


FIGURE 2



DETAIL A

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

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Default	PLOT DATE = 9/15/2016	REVISED -T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0081	18-00084-00-SW	MCHENRY	23	22
	TC-14	CONTRACT NO. 61F78		
	ILLINOIS FED. AID PROJECT			

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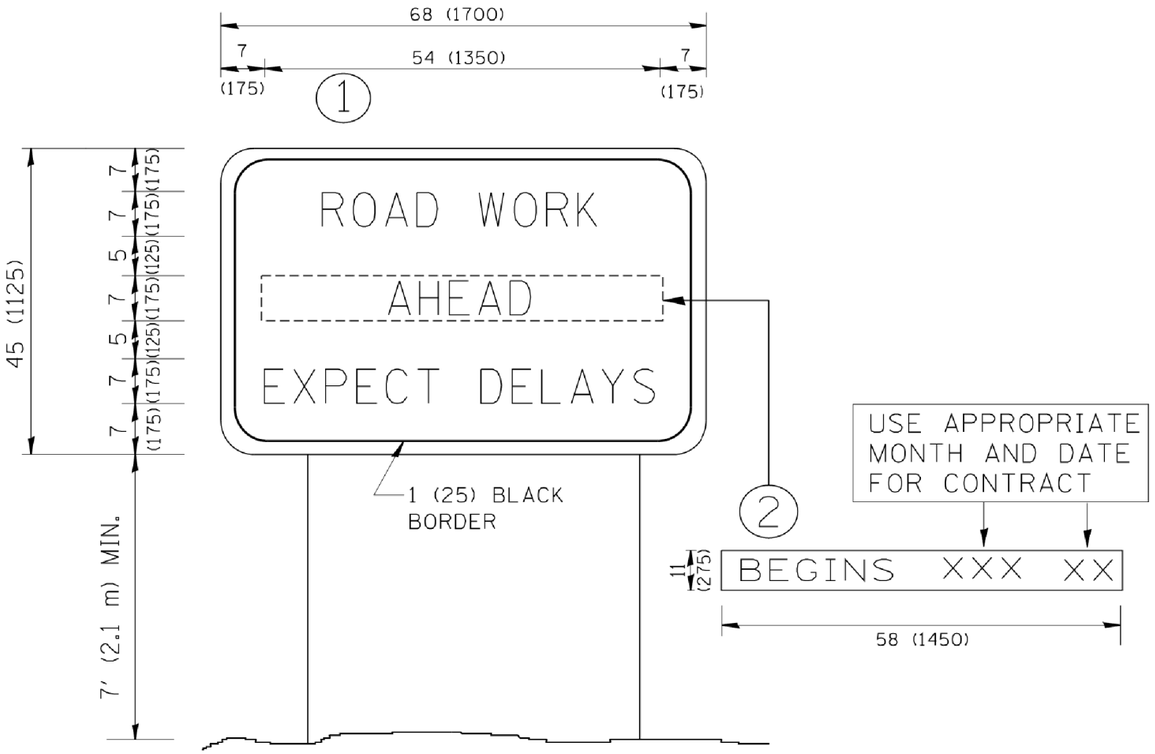

NOTES:

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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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.
0081	18-00084-00-SW	MCHENRY	23	23
	TC-22	CONTRACT NO. 61F78		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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