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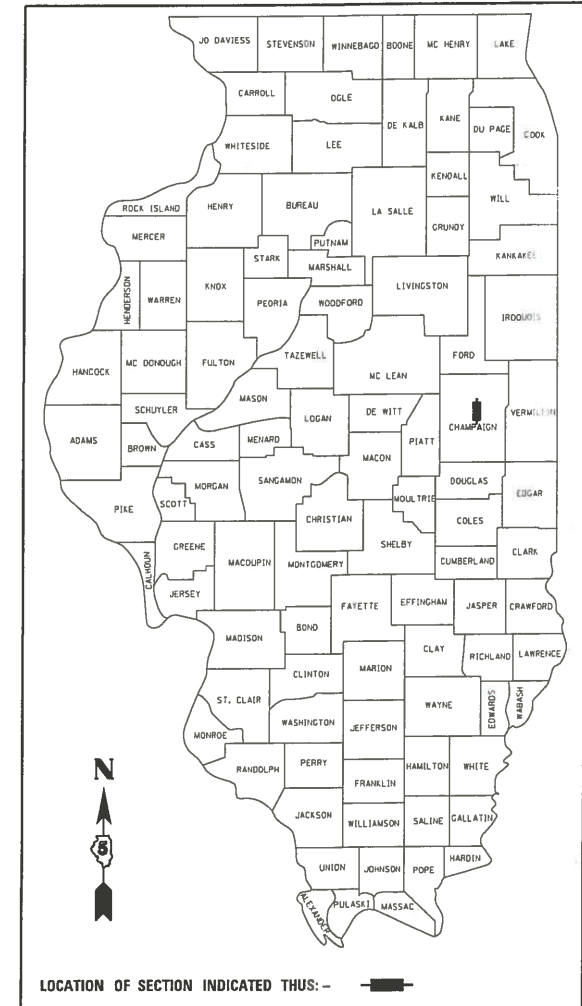
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**CITY OF URBANA  
CHAMPAIGN COUNTY, ILLINOIS  
SECTION NO. 21-00633-00-LT**

**PLANS FOR PROPOSED  
ROADWAY LIGHTING IMPROVEMENTS**

**MATHEWS AVENUE  
OREGON STREET TO SPRINGFIELD AVENUE**

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	1
MATHEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



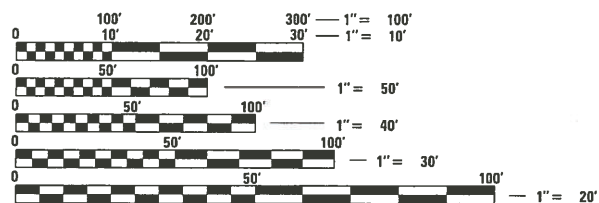
**CITY OF URBANA**

APPROVED June 24 2021

*[Signature]*  
PUBLIC WORKS DIRECTOR & CITY ENGINEER

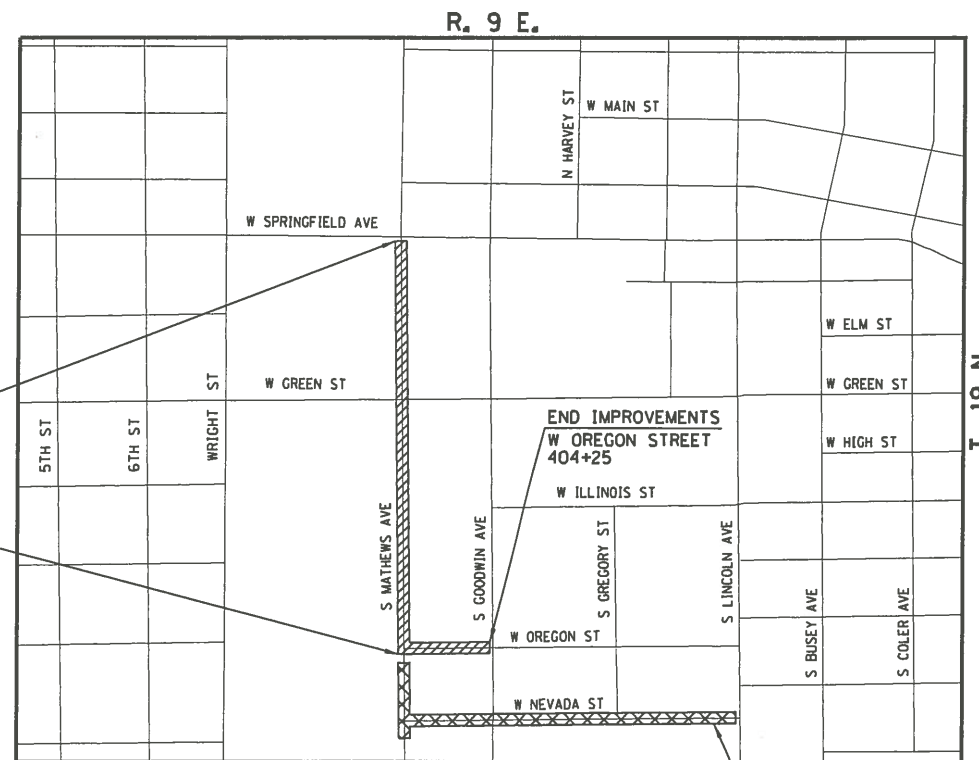
**IDOT HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
830006-05	LIGHT POLE ALUMINUM DAVIT ARM
836001-04	LIGHT POLE FOUNDATION
878001-11	CONCRETE FOUNDATION DETAILS



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 LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123 OR 811

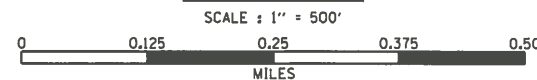


END IMPROVEMENTS  
S MATHEWS AVENUE  
STA 125+91

BEGIN IMPROVEMENTS  
S MATHEWS AVENUE  
STA 105+11  
W OREGON STREET  
STA 400+36

LANDSCAPE IMPROVEMENTS ONLY  
S MATHEWS AVENUE STA 100+01 TO STA 104+29  
W NEVADA STREET STA 503+39 TO STA 516+94

**LOCATION MAP**



TOTAL LENGTH OF MATHEWS AVENUE IMPROVEMENTS = 2080 FEET = 0.40 MILES  
TOTAL LENGTH OF OREGON STREET IMPROVEMENTS = 389 FEET = 0.07 MILES  
TOTAL LENGTH OF ROADWAY LIGHTING IMPROVEMENTS = 2469 FEET = 0.47 MILES

*[Signature]*  
PROFESSIONAL ENGINEER  
CLARK DIETZ, INC.  
FOR SHEETS 1-4, 18-22

DATE: 06/23/2021  
LICENSE EXPIRES 11/30/2021



*[Signature]*  
PROFESSIONAL ENGINEER  
CLARK DIETZ, INC.  
FOR SHEETS 5-17

DATE: 06/23/2021  
LICENSE EXPIRES 11/30/2021



**ClarkDietz** 125 WEST CHURCH STREET  
CHAMPAIGN, IL 61820  
DESIGN FIRM REGISTRATION No. 184-00450 PHONE: 217.373.8900  
www.clarkdietz.com

# GENERAL NOTES

- ALL ELEVATIONS SHOWN REFER TO THE N.A.V.D. 1988 DATUM.
- WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM "STANDARD SPECIFICATIONS" IS USED IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED ON APRIL 1, 2016.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST HIGHWAY STANDARDS OF THE DEPARTMENT AS SHOWN ON SHEET NO. 1.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT.
- THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE AND LOCAL REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
- THE CONTRACTOR SHALL TAKE CARE NOT TO STORE OR DISPOSE OF DEBRIS OR UNSUITABLE MATERIALS WITHIN THE LIMITS OF THE IMPROVEMENT AND SHALL TAKE CARE TO LIMIT CONSTRUCTION ACTIVITIES TO WITHIN THE RIGHT-OF-WAY AND EASEMENT AREAS. UNNECESSARY ENCROACHMENTS ONTO PRIVATE OR PUBLIC AREAS WILL NOT BE ALLOWED.
- WHERE SECTION OR SUBSECTION MONUMENTS, BENCHMARKS, OR IRON PIPE MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN ILLINOIS REGISTERED LAND SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN ILLINOIS REGISTERED LAND SURVEYOR REESTABLISH ANY MONUMENTS UNNECESSARILY DESTROYED BY HIS OR HER OPERATIONS, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE EXCAVATION FOR THIS PROJECT IS CLASSIFIED AS EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS AND AS PROVIDED IN THE SPECIAL PROVISIONS, THE EARTH EXCAVATION SHALL INCLUDE THE REMOVAL OF EARTH AND UNCLASSIFIED MATERIALS, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES PRIOR TO EXCAVATION OPERATIONS, EARTH EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE SPECIFIC CONSTRUCTION PAY ITEM REQUIRING THE EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE REMAINING EXCAVATION IS CLASSIFIED AS SIDEWALK REMOVAL AND FOUNDATION REMOVAL.
- PARTICULAR EFFORT SHALL BE MADE TO SAVE ALL EXISTING TREES AND SHRUBS, ONLY A MINIMUM OF GRADING WILL BE PERMITTED AROUND TREES AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR UNNECESSARY DAMAGE TO TREES, SHRUBS, OR LANDSCAPING INTENDED TO BE SAVED, ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND AS DIRECTED BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
- TREE PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE, ALL TREES REQUIRING PRUNING SHALL BE PRE-INSPECTED VIA AN ONSITE MEETING WITH THE CERTIFIED ARBORIST AND A REPRESENTATIVE FROM BOTH THE CITY OF URBANA AND THE UNIVERSITY OF ILLINOIS.
- THE EXISTING TRAFFIC SIGNS AND POSTS WHICH INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED AND RESET, AS THE CASE MAY BE, AS DIRECTED BY THE ENGINEER, SIGNS MOUNTED ON EXISTING LIGHT POLES SHALL BE REMOVED AND REINSTALLED ON PROPOSED LIGHT POLES AS DIRECTED BY THE ENGINEER, THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS, EXISTING SIGNS THAT WILL NOT BE RESET SHALL BE RETURNED TO THE CITY OF URBANA'S PUBLIC WORKS GARAGE AT 706 SOUTH GLOVER AVENUE, REFER TO THE SPECIAL PROVISION FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL) FOR ADDITIONAL INFORMATION ON REMOVING AND RESETTING THE EXISTING TRAFFIC SIGNS AND POSTS, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL PAY ITEMS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE FINISHED EARTHWORK SHALL HAVE VEGETATIVE SUSTAINING SOIL COVERING THE TOP 6 INCHES IN AREAS TO BE SODDED, THE TOPSOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF SODDING (COMPLETE), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL DISTURBED TURF AREAS SHALL BE SODDED AS SOON AS EACH CONSTRUCTION STAGE IS COMPLETE OR AS OTHERWISE DIRECTED BY THE ENGINEER, EXISTING TURF WHICH IS DAMAGED OUTSIDE THE LIMITS OF RIGHT-OF-WAY, EASEMENTS, OR GRADING SHALL BE REESTABLISHED WITH SOD AS DIRECTED BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
- UTILITY LOCATIONS WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES AND THE UNIVERSITY OF ILLINOIS, AND THEIR ACCURACY SHOULD BE CONSIDERED APPROXIMATE, NO RESPONSIBILITY IS ACCEPTED FOR THE UTILITY LOCATIONS AS SHOWN OR THAT ALL UTILITY FACILITIES ARE SHOWN, UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND REPRESENT LOCATIONS PRIOR TO ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION, THE CONTRACTOR IS ADVISED THAT SOME UTILITY COMPANIES MAY HAVE RELOCATED THEIR FACILITIES PRIOR TO THE START OF CONSTRUCTION UNDER THIS CONTRACT, BEFORE COMMENCING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER ANY AVAILABLE INFORMATION REGARDING THE RELOCATED POSITIONS OF UTILITIES WITHIN THE PROJECT LIMITS, WHETHER VARIOUS UTILITIES HAVE BEEN RELOCATED OR REMAIN IN THEIR ORIGINAL LOCATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AT THE TIME OF CONSTRUCTION AND TO PROTECT SAME, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN OVERHEAD UTILITY LINES AND THE EQUIPMENT USED FOR EXCAVATION OR CONSTRUCTION, REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SECTION OF THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING KNOWN UTILITY RELOCATIONS OR ADJUSTMENTS REQUIRED FOR THE PROPOSED CONSTRUCTION, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 105.07, 107.37, 107.38, 107.39, AND 107.40 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS ENTITLED "COOPERATION WITH UTILITY OWNERS" AND "UNIVERSITY OF ILLINOIS SERVED UTILITIES".
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SECTION OF THE SPECIAL PROVISIONS FOR INFORMATION REGARDING POTENTIAL UTILITY CONFLICTS THAT REQUIRE FURTHER FIELD INVESTIGATION BY THE CONTRACTOR AND THE UTILITY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS, THE JULIE NUMBER IS 800-892-0123, THE CONTRACTOR SHALL CALL JULIE A MINIMUM OF 48 HOURS IN ADVANCE OF WORK BEING DONE IN THE AREA AS REQUIRED BY ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS.
- UTILITY OWNERS:  
\*INDICATES JULIE MEMBER
 

*AMEREN ILLINOIS 1112 WEST ANTHONY DRIVE URBANA, ILLINOIS 61803 (217) 383-7280	*ILLINOIS AMERICAN WATER 1406 CARDINAL COURT URBANA, ILLINOIS 61801 (217) 373-3258	*CITY OF URBANA PUBLIC WORKS 706 SOUTH GLOVER AVENUE URBANA, ILLINOIS 61802 (217) 384-2342
*AT&T 201 SOUTH NEIL STREET CHAMPAIGN, ILLINOIS 61820 (217) 398-7990	*ILLINOIS CONSOLIDATED TELEPHONE 2116 SOUTH 17TH STREET MATTOON, ILLINOIS 61938 (217) 235-3355	*URBANA & CHAMPAIGN SANITARY DISTRICT 1100 EAST UNIVERSITY AVENUE URBANA, ILLINOIS 61803 (217) 367-3409
*COMCAST 303 EAST FAIRLAWN DRIVE URBANA, ILLINOIS 61801 (217) 384-2510	*ITV3/UC2B 602 HIGH POINT LANE EAST PEORIA, ILLINOIS 61611 (309) 670-0400	*WINDSTREAM KDL 102 EAST SHAFER STREET FORSYTH, ILLINOIS 62535 (319) 790-1464
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL PAY ITEMS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- EXISTING SIDEWALKS WHOSE TOP SURFACE IS TO BE JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH SAW CUT JUNCTURES, ¾" EXPANSION JOINT MATERIAL SHALL BE PLACED AT THESE JUNCTURES AS DIRECTED BY THE ENGINEER, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIDEWALK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CITY OF URBANA WILL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC, THE UNITED STATES POSTAL SERVICE, THE CHAMPAIGN-URBANA MASS TRANSIT DISTRICT, THE EMERGENCY SERVICE AGENCIES, AND THE UNIVERSITY OF ILLINOIS OF ALL ROAD CLOSURES AND CHANGES IN THE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY OF URBANA OF ALL ROAD CLOSURES AND CHANGES IN THE TRAFFIC CONTROL PLANS A MINIMUM OF 48 HOURS IN ADVANCE OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF THE SITE PRIOR TO FINAL ACCEPTANCE IN ACCORDANCE WITH ARTICLE 104.06 OF THE STANDARD SPECIFICATIONS, THIS WORK SHALL ALSO INCLUDE CLEANING DRAINAGE STRUCTURES OF FOREIGN MATERIALS IN ACCORDANCE WITH ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THIS WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- ALL OPEN TRENCHES OR EXCAVATIONS SHALL BE PROTECTED BY THE CONTRACTOR USING A METHOD APPROVED BY THE ENGINEER, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL PAY ITEMS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- HORIZONTAL CENTERLINE CONTROL POINTS ARE SHOWN FOR THE CONTRACTOR TO PHYSICALLY LOCATE MONUMENTATION IN THE FIELD, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CENTERLINE CONTROL POINTS AND SET ADDITIONAL POINTS AND TIES AS NECESSARY TO ENSURE THAT CONTROL POINTS CAN BE ACCURATELY REPLICATED DURING CONSTRUCTION.
- THE HORIZONTAL COORDINATE SYSTEM IS BASED ON CITY OF URBANA HORIZONTAL CONTROL MONUMENTS.
- IN SOME AREAS, WORK IS TO BE PERFORMED OUTSIDE OF THE RIGHT-OF-WAY BUT TEMPORARY CONSTRUCTION EASEMENTS ARE NOT SHOWN, IN THESE AREAS THE ADJACENT PROPERTY IS OWNED BY THE UNIVERSITY OF ILLINOIS, THE CITY OF URBANA AND THE UNIVERSITY OF ILLINOIS HAVE AN AGREEMENT TO ALLOW WORK TO BE PERFORMED ON UNIVERSITY PROPERTY FOR THIS PROJECT, THE CONTRACTOR SHALL USE REASONABLE CARE TO AVOID DISTURBING PORTIONS OF THE UNIVERSITY'S PROPERTY NOT NECESSARY TO THE CONSTRUCTION OPERATIONS, IF, IN THE JUDGMENT OF THE ENGINEER, AREAS ARE DISTURBED UNNECESSARILY, THE CONTRACTOR SHALL RESTORE THESE AREAS AT HIS/HER OWN EXPENSE.
- THE EXISTING TOPOGRAPHIC AND UTILITY INFORMATION IS BASED ON THE UNIVERSITY OF ILLINOIS GIS FILE FROM AUGUST 2012, SEE GENERAL NOTES 4 AND 14 FOR ADDITIONAL INFORMATION.
- ANY METERED PARKING SPACES THAT WILL BE TAKEN OUT OF SERVICE BY CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE CITY OF URBANA NO LESS THAN 72 HOURS IN ADVANCE OF THE WORK, THE CONTRACTOR MUST HAVE WRITTEN PERMISSION FROM CITY ENGINEERING STAFF PRIOR TO IMPACTING THE METERED PARKING SPACES.

## REMOVAL AND REPLACEMENT NOTES

- FOR THE REMOVAL AND/OR INSTALLATION OF LIGHT POLES AND JUNCTION BOXES, THE TYPICAL LIMITS OF SIDEWALK REMOVAL, SIDEWALK INSTALLATION, BRICK PAVER REMOVAL AND REINSTALLATION, SODDING, OR AGGREGATE SURFACE COURSE REQUIRED ARE ASSUMED TO BE FIVE FEET LONG FOR THE WIDTH OF THE CONCRETE SIDEWALK, BRICK PAVER FIELD, TURF AREA, OR AGGREGATE AREA, OR AS OTHERWISE DIRECTED BY THE ENGINEER, WHEN MULTIPLE ITEMS TO BE REMOVED OR INSTALLED ARE ADJACENT TO EACH OTHER, THESE TYPICAL CONSTRUCTION LIMITS SHALL BE MODIFIED AS DIRECTED BY THE ENGINEER.
- FOR THE INSTALLATION OF LIGHTING CONTROLLERS, THE TYPICAL LIMITS OF SIDEWALK REMOVAL, SIDEWALK INSTALLATION, BRICK PAVER REMOVAL AND REINSTALLATION, SODDING, OR AGGREGATE SURFACE COURSE REQUIRED ARE ASSUMED TO BE TEN FEET LONG FOR THE WIDTH OF THE CONCRETE SIDEWALK, BRICK PAVER FIELD, TURF AREA, OR AGGREGATE AREA, OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- THE TYPICAL CONSTRUCTION LIMITS DESCRIBED IN THE NOTES ABOVE SHALL BE REDUCED AS DIRECTED BY THE ENGINEER TO MINIMIZE THE AMOUNT OF REMOVAL AND SUBSEQUENT REPLACEMENT REQUIRED FOR THIS WORK, SIDEWALK REMOVAL LIMITS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MATCH EXISTING SIDEWALK JOINTS, SODDING LIMITS SHALL BE ADJUSTED IN ACCORDANCE WITH THE CITY OF URBANA RIGHT-OF-WAY STANDARD DRAWING "SODDING INSTALLATION". ANY ADDITIONAL REMOVALS REQUIRED BEYOND THE TYPICAL CONSTRUCTION LIMITS DESCRIBED IN THE NOTES ABOVE MUST BE APPROVED BY THE ENGINEER.
- THE MINIMUM THICKNESS OF THE PROPOSED SIDEWALK SHALL BE SIX INCHES, IF THE THICKNESS OF THE EXISTING SIDEWALK ADJACENT TO THE PROPOSED SIDEWALK IS GREATER THAN SIX INCHES, THEN THE PROPOSED SIDEWALK SHALL BE CONSTRUCTED TO MATCH THE THICKNESS OF THE EXISTING SIDEWALK, THE ADDITIONAL THICKNESS OF THE PROPOSED SIDEWALK REQUIRED TO MATCH THE THICKNESS OF THE EXISTING SIDEWALK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIDEWALK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- EARTH EXCAVATION WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE SPECIFIC PAY ITEM THAT REQUIRES THE EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- BRICK PAVERS THAT ARE REMOVED FOR THE REMOVAL OR INSTALLATION OF LIGHT POLES AND JUNCTION BOXES SHALL BE SALVAGED AND REINSTALLED AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL CUT SALVAGED PAVERS AS REQUIRED FOR THEIR SUBSEQUENT INSTALLATION.
- THE CONTRACTOR SHALL MAKE FULL DEPTH SAW CUTS AT ALL SIDEWALK REMOVAL LIMITS.
- IF IT BECOMES NECESSARY TO REMOVE AND REPLACE SIDEWALK CURB RAMPS, THE DETECTABLE WARNINGS REQUIRED FOR THE NEW CURB RAMPS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED SIDEWALK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LIMITS OF SIDEWALK REMOVAL, SIDEWALK INSTALLATION, BRICK PAVER REMOVAL AND REINSTALLATION, SODDING, AND AGGREGATE SURFACE COURSE REQUIRED FOR THE REMOVAL AND/OR INSTALLATION OF LIGHT POLES, JUNCTION BOXES, AND LIGHTING CONTROLLERS ARE NOT SHOWN IN THE PLANS, ESTIMATED QUANTITIES FOR THIS WORK ARE INCLUDED IN THE PLANS BASED ON THE TYPICAL CONSTRUCTION LIMITS DESCRIBED IN THE NOTES ABOVE.
- LANDSCAPE PLANS ARE NOT INCLUDED FOR THE SODDING REQUIRED FOR THE REMOVAL AND/OR INSTALLATION OF LIGHT POLES, JUNCTION BOXES, AND LIGHTING CONTROLLERS, LANDSCAPE PLANS ARE INCLUDED FOR THE SODDING REQUIRED AT PREVIOUSLY REMOVED OR INSTALLED LIGHTING EQUIPMENT LOCATIONS.
- THE CONTRACTOR SHALL REVIEW HIS/HER PLAN FOR BORING AND PULLING CONDUIT WITH THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE, ASSUMED QUANTITIES OF SIDEWALK REMOVAL, SIDEWALK, AND SODDING ARE INCLUDED IN THE PLANS FOR THE RESTORATION OF BORE PIT AREAS.

## MAINTENANCE OF TRAFFIC NOTES

- TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; THE APPLICABLE GUIDELINES CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, STANDARDS 701006, 701701, 701801, AND 701901, AND THE SPECIAL PROVISIONS, THE LISTED STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT.
- TRAFFIC CONTROL AND PROTECTION WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), THE TRAFFIC CONTROL AND PROTECTION INSTALLATION FOR EACH WORK AREA WILL NOT BE PAID FOR SEPARATELY, ADDITIONAL TRAFFIC CONTROL DEVICES AND SIGNS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- TRAFFIC CONTROL SURVEILLANCE SHALL BE REQUIRED BUT WILL NOT BE PAID FOR SEPARATELY FOR THIS PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES AT ALL TIMES INCLUDING NIGHTTIME, WEEKENDS, AND ANY TIME WORKERS ARE NOT PRESENT, THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH RECURRING SPECIAL PROVISION LRS 3, THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE INSPECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED (ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL) AND A MINIMUM OF FOUR WEIGHTED SAND BAGS ON EACH TYPE III BARRICADE USED.
- SIDEWALKS SHALL REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER, PARTIAL CLOSURES WILL BE ALLOWED AS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN A MINIMUM SIDEWALK WIDTH OF FOUR FEET FOR PEDESTRIAN TRAFFIC, ACCESS TO ADJACENT PROPERTIES SHALL BE PROVIDED AT ALL TIMES, PEDESTRIAN ACCESS TO ALL BUILDINGS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNS AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
- ANY SIDEWALK DETOURS REQUIRED SHALL BE CLEARLY MARKED USING SIGNS AND BARRICADES TO NOTIFY PEDESTRIANS OF THE CLOSURE, THE SIDEWALK MAY ONLY BE DETOURED FROM ONE SIDE OF THE STREET AT A TIME, AT EACH POINT OF CLOSURE, SUFFICIENT NUMBERS OF BARRICADES SHALL BE USED TO COMPLETELY CLOSE THE SIDEWALK.
- SIDEWALKS SHALL BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. AND SHALL BE BROOM SWEEP DAILY OR AS OTHERWISE DIRECTED BY THE ENGINEER, ALL HAZARDS NEAR OR ADJACENT TO SIDEWALKS SHALL BE CLEARLY DELINEATED.

## EROSION CONTROL NOTES

- THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER, INLET FILTERS SHALL BE PLACED AT ALL DRAINAGE STRUCTURES WITH OPEN LIDS OR GRATES THAT ARE WITHIN PAVED AREAS, THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
- ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS MAY BE REQUIRED DURING CONSTRUCTION, THE SYSTEMS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
- SODDING OF DISTURBED TURF AREAS SHALL BE DONE AS SOON AS POSSIBLE AFTER COMPLETION OF EACH STAGE OF THE PROJECT TO EXPEDITE THE ESTABLISHMENT OF VEGETATION, THE FINAL GRADING AND SHAPING MUST BE APPROVED BY THE ENGINEER BEFORE SODDING IS PERFORMED.

ClarkDietz

FILE NAME = p:\U0070080_Urbana - Campus Lighting\Plans\Sheets\Mathews\02gennote-mathews.dgn	DESIGNED - SKG DRAWN - SKG	REVISED - REVISED -	CITY OF URBANA PUBLIC WORKS DEPARTMENT	GENERAL NOTES	SECTION 21-00633-00-LT	COUNTY CHAMPAIGN	TOTAL SHEETS 24	SHEET NO. 2
PLOT DATE = 6/23/2021 4:34:06 PM	CHECKED - JAJ DATE - JUNE 2021	REVISED - REVISED -		SCALE : NONE	SHEET NO. 2 OF 24 SHEETS	STA.	TO STA.	MATHEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS

# SUMMARY OF QUANTITIES

ClarkDietz

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	LIGHTING PLANS			LANDSCAPE PLANS		
				MATHEWS AVENUE	NEVADA STREET	MATHEWS AVENUE	MATHEWS AVENUE	NEVADA STREET	MATHEWS AVENUE
28000510	INLET FILTERS	EACH	32	21	10			1	
* 44000600	SIDEWALK REMOVAL	SO FT	1375	1375					
67100100	MOBILIZATION	LSUM	1						
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	380	380					
* 81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	4050	4050					
* 81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	2	2					
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	230	230					
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	8170	8170					
* 81702145	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3	FOOT	7100	7100					
* 81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	1160	1160					
* 83000400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM	EACH	8	8					
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	138	138					
* 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	20	20					
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	2	2					
* 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1					
* 84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1					
* X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	1110	1110					
* X4020900	AGGREGATE SURFACE COURSE, TYPE B SPECIAL	SO YD	35	35					
* X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SO FT	1375	1375					
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1						
* X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1	1					
* X8130110	JUNCTION BOX (SPECIAL)	EACH	38	38					
* X8130125	REMOVE EXISTING JUNCTION BOX	EACH	10	10					
* X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1	1					
* X8300001	LIGHT POLE, SPECIAL	EACH	25	25					
* X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	10	10					
* X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	5	5					
* XX006344	SODDING (COMPLETE)	SO YD	385	165	103		117		
* XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	8	8					
* XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	25	25					
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1						

\*SEE SPECIAL PROVISIONS

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 DATE - JUNE 2021

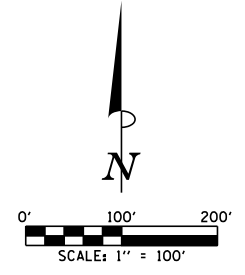
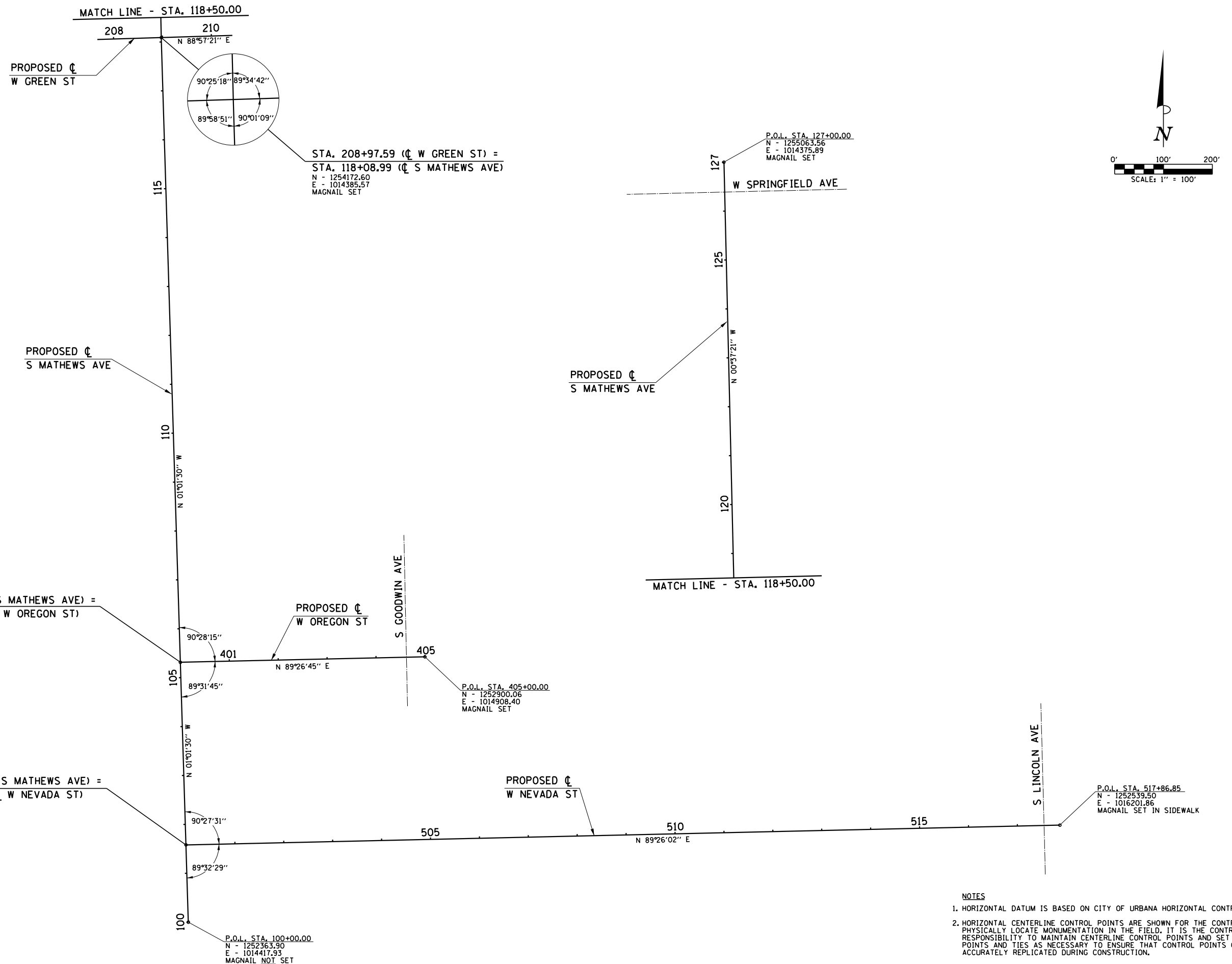
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CITY OF URBANA  
 PUBLIC WORKS DEPARTMENT

## SUMMARY OF QUANTITIES

SCALE : NONE    SHEET NO. 3 OF 24 SHEETS    STA.    TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	3
MATHEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



- NOTES**
- HORIZONTAL DATUM IS BASED ON CITY OF URBANA HORIZONTAL CONTROL MONUMENTS.
  - HORIZONTAL CENTERLINE CONTROL POINTS ARE SHOWN FOR THE CONTRACTOR TO PHYSICALLY LOCATE MONUMENTATION IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CENTERLINE CONTROL POINTS AND SET ADDITIONAL POINTS AND TIES AS NECESSARY TO ENSURE THAT CONTROL POINTS CAN BE ACCURATELY REPLICATED DURING CONSTRUCTION.

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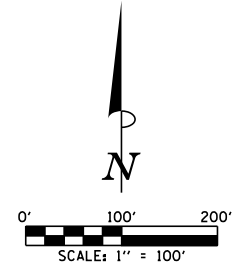
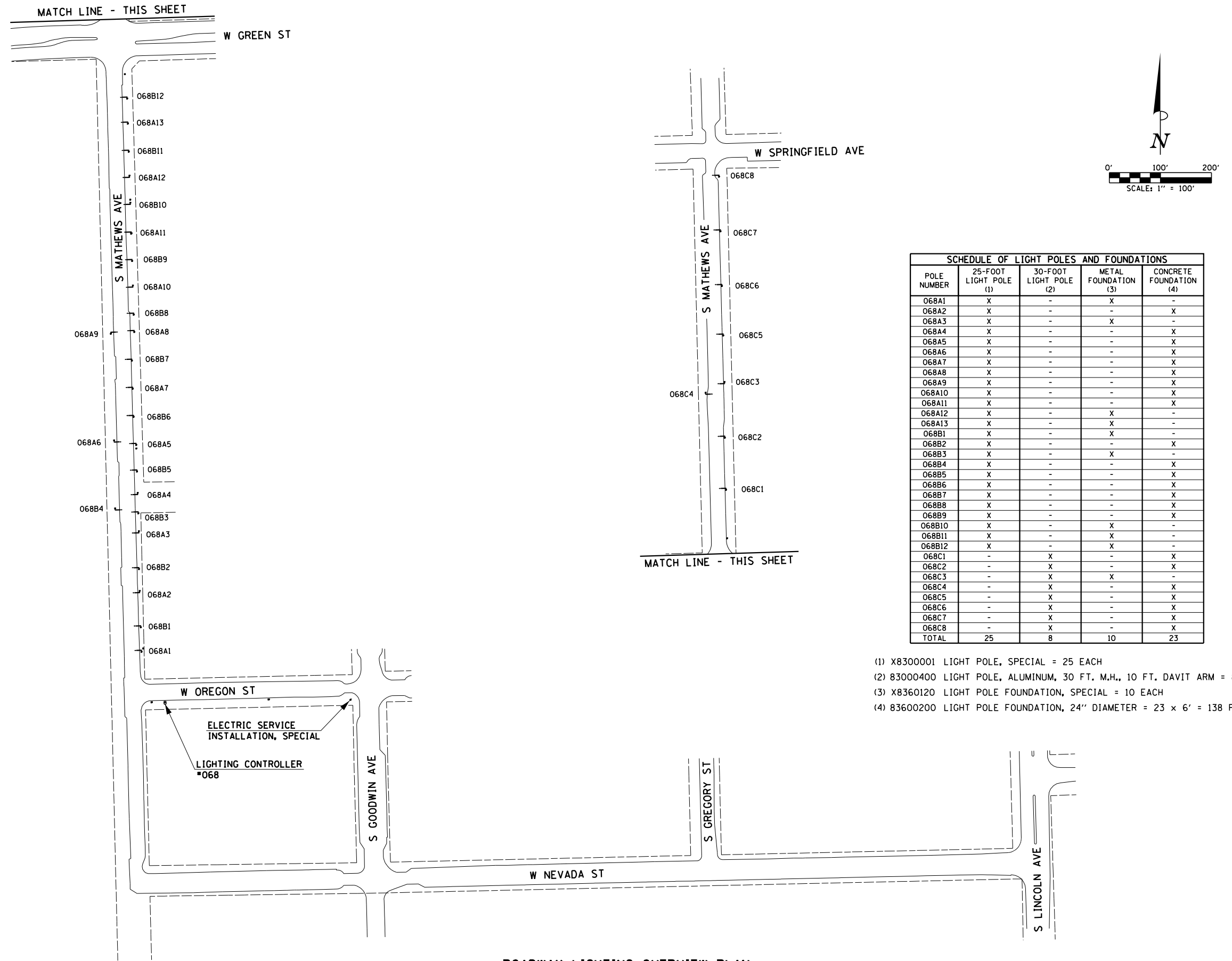
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CHECKED - JAJ	REVISED -
DATE - JUNE 2021	REVISED -

CITY OF URBANA  
 PUBLIC WORKS DEPARTMENT

**HORIZONTAL ALIGNMENT LAYOUT AND CONTROL**  
 SCALE: 1"=100' SHEET NO. 4 OF 24 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	4
MATHIEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			





SCHEDULE OF LIGHT POLES AND FOUNDATIONS				
POLE NUMBER	25-FOOT LIGHT POLE (1)	30-FOOT LIGHT POLE (2)	METAL FOUNDATION (3)	CONCRETE FOUNDATION (4)
068A1	X	-	X	-
068A2	X	-	-	X
068A3	X	-	X	-
068A4	X	-	-	X
068A5	X	-	-	X
068A6	X	-	-	X
068A7	X	-	-	X
068A8	X	-	-	X
068A9	X	-	-	X
068A10	X	-	-	X
068A11	X	-	-	X
068A12	X	-	X	-
068A13	X	-	X	-
068B1	X	-	X	-
068B2	X	-	-	X
068B3	X	-	X	-
068B4	X	-	-	X
068B5	X	-	-	X
068B6	X	-	-	X
068B7	X	-	-	X
068B8	X	-	-	X
068B9	X	-	-	X
068B10	X	-	X	-
068B11	X	-	X	-
068B12	X	-	X	-
068C1	-	X	-	X
068C2	-	X	-	X
068C3	-	X	X	-
068C4	-	X	-	X
068C5	-	X	-	X
068C6	-	X	-	X
068C7	-	X	-	X
068C8	-	X	-	X
TOTAL	25	8	10	23

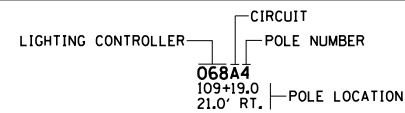
- (1) X8300001 LIGHT POLE, SPECIAL = 25 EACH
- (2) 83000400 LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM = 8 EACH
- (3) X8360120 LIGHT POLE FOUNDATION, SPECIAL = 10 EACH
- (4) 83600200 LIGHT POLE FOUNDATION, 24" DIAMETER = 23 x 6' = 138 FOOT

**ROADWAY LIGHTING OVERVIEW PLAN**

### LEGEND

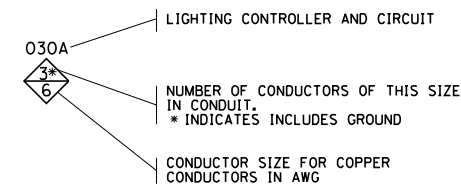
	AREA DRAIN		LOCATION STATION		TRANSFORMER
	BALL VALVE		LOW POINT DRAIN		UNKNOWN DESTINATION
	BASKET STRAINER		METER		WARNING SIGN
	BREAK		MURDOCK HYDRANT		YARD HYDRANT
	BUTTERFLY VALVE		MANHOLE		DECIDUOUS TREE
	CAP		PANEL		CONIFEROUS TREE
	CATCH BASIN		PEDESTAL		CABLE TELEVISION LINE
	CLEAN OUT		POWER POLE		COMPRESSED AIR PIPE
	CONNECTION BOX		PROPANE TANK		CHILLED WATER SUPPLY PIPE
	CONTROL VALVE		PUMP		CHILLED WATER RETURN PIPE
	CULVERT END-SECTION		REDUCER		WATER PIPE
	CURB INLET		REGULATOR STATION		ELECTRIC DUCTBANK
	CROSSWALK LIGHT		RELIEF VALVE		ELECTRIC CONDUIT
	CROSSWALK SWITCH		RISER		ELECTRIC DIRECT BURIED
	DIAPHRAM		SEPTIC TANK		STREET LIGHT
	DISTRIBUTION CENTER		SIGNAL		NATURAL GAS AMEREN / IP PIPE
	DOWNSPOUT		SPRINKLER		NATURAL GAS UIUC PIPE
	DRAIN TERMINATION		SPLICE		SANITARY SEWER PIPE
	EMERGENCY PHONE		STREET LIGHT		STEAM TUNNEL
	FINK BOX		LANDSCAPE LIGHT		STEAM PIPE
	FIRE HYDRANT		PARKING LOT LIGHT		STORM SEWER PIPE
	FLOW METER		RECREATION LIGHT		TELECOMMUNICATIONS BURIED FIBER
	FOUNTAIN		WALKWAY LIGHT		TELECOMMUNICATIONS DUCT
	GATE VALVE		STEAM TRAP		IRRIGATION PIPE
	GENERATOR		STEAM ACCESS PANEL		FENCE LINE
	GROUND ROD		SUBSTATION		EXISTING RIGHT-OF-WAY
	HANDHOLE OR JUNCTION BOX		SUMP PUMP		
	HOSE ANGLE VALVE		SWITCH		
	HYDRANT		SYSTEM VALVE		
	INJECTION HYDRANT		TOWER		
	LIFT-STATION		TRAFFIC CONTROL BOX		
	LOAD CENTER		TRAFFIC SIGNAL		

### CIRCUIT DESIGNATION SCHEME

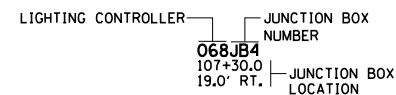


NOTE:  
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER BELOW THE HANDHOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT, AND POLE NUMBER.

### CONDUCTOR SYMBOL SCHEME



### JUNCTION BOX DESIGNATION SCHEME



### ROADWAY LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		ROADWAY LED LUMINAIRE ("L1" INDICATES LUMINAIRE TYPE, SEE SPECIAL PROVISIONS FOR DESCRIPTION OF LUMINAIRE TYPE) MOUNTED ON 10' DAVIT ARM MOUNTED ON 30' ALUMINUM LIGHT POLE MOUNTED TO FOUNDATION ("H" INDICATES METAL HELIX FOUNDATION, "C" INDICATES CONCRETE FOUNDATION)
		ROADWAY LED LUMINAIRE ("L2" INDICATES LUMINAIRE TYPE, SEE SPECIAL PROVISIONS FOR DESCRIPTION OF LUMINAIRE TYPE) MOUNTED ON 10' DAVIT ARM MOUNTED ON 25' ALUMINUM LIGHT POLE MOUNTED TO FOUNDATION ("H" INDICATES METAL HELIX FOUNDATION, "C" INDICATES CONCRETE FOUNDATION)
		ROADWAY OR PEDESTRIAN LUMINAIRE
		PORTLAND CEMENT CONCRETE HANDHOLE
		PROPOSED LIGHTING CONTROLLER (* AS NOTED)
		COMPOSITE TYPE JUNCTION BOX, SPECIAL (12"W x 12"L x 12"D)
		GULFBOX JUNCTION, COMPOSITE CONCRETE (13"W x 24"L x 12"D)
		2" COILABLE NONMETALLIC CONDUIT, AUGURED
		2" PVC CONDUIT, TRENCHED
		UNDERGROUND CONDUIT
		OVERHEAD ELECTRICAL CONDUCTORS
		ROADWAY LIGHTING CONDUIT/CONDUCTORS

### ELECTRICAL GENERAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE, THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND ALL APPLICABLE LOCAL ORDINANCES.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR A COMPLETE AND WORKABLE SYSTEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND FOR PROVIDING ALL SUPERVISION, LABOR, MATERIAL AND TOOLS FOR THE PROJECT. CONTRACTOR SHALL OBTAIN CITY OF URBANA ELECTRICIAN LICENSE PRIOR TO START OF WORK. CONTRACTOR SHALL COORDINATE INSPECTION OF WORK WITH THE CITY OF URBANA.
- ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT LOCATIONS AND EQUIPMENT DIMENSIONS. THE MINIMUM CLEAR DISTANCE BETWEEN THE FACE OF CURB AND THE FACE OF LIGHT POLE SHALL BE 1.5 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL CONDUITS WITH WIRING SHALL BE PROVIDED WITH AN INSULATED COPPER GROUNDING CONDUCTOR SIZED AS NOTED ON PLANS AND IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.
- ALL GROUNDING CONDUCTORS SHALL BE BONDED TOGETHER IN ALL HANDHOLES AND JUNCTION BOXES. SEE THE ROADWAY LIGHTING DETAILS FOR ADDITIONAL INFORMATION.
- ALL SERVICE LATERAL CONDUITS SHALL BE SCHEDULE 40 PVC EXCEPT ALL ELBOWS AND VERTICAL RISERS SHALL BE RIGID GALVANIZED STEEL. ALL ELBOWS SHALL BE LONG RADIUS TYPE. THE CONTRACTOR SHALL VERIFY AND COMPLY WITH ALL AMEREN ILLINOIS REQUIREMENTS FOR THE SERVICE INSTALLATIONS.
- CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND INSTALLATION WITH ALL OTHER SITE WORK BEING PERFORMED. COORDINATE ALL POLE LOCATIONS WITH ENGINEER IN THE FIELD.
- PROVIDE PULL ROPES IN ALL CONDUITS AS REQUIRED BY THE SPECIAL PROVISIONS, INCLUDING THOSE CONDUITS WITH CONDUCTORS INSTALLED. THE PULL ROPES SHALL BE INCLUDED IN THE COST OF THE CONDUITS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL TAG ALL ELECTRICAL CONDUCTORS (PHASE CONDUCTORS, NEUTRALS, AND GROUNDS) WITH PERMANENT TAGS. EACH CONDUCTOR SHALL BE TAGGED IN ALL CONCRETE HANDHOLES, JUNCTION BOXES, AND POLE HANDHOLES. THE TAG SHALL INDICATE THE LIGHTING CONTROLLER AND CIRCUIT NUMBER FROM WHICH THE CONDUCTORS ORIGINATE.
- ALL CONDUITS SHALL BE A MINIMUM OF 30" BELOW FINAL GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ALL UNDERGROUND UTILITIES DAMAGED DURING INSTALLATION OF ROADWAY LIGHTING AND FEEDER SYSTEMS. CONDUITS SHALL NOT BE INSTALLED MORE THAN 8' BELOW FINAL GRADE WITHOUT APPROVAL FROM THE CITY OF URBANA.
- SERVICE GROUND RODS SHALL BE 3/4" DIAMETER x 10'-0" LONG COPPER CLAD STEEL. GROUND RODS AT POLES SHALL BE 3/8" DIAMETER x 10'-0" LONG. GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 SOLID COPPER AND SHALL BE CONNECTED WITH HYDRAULIC CRIMP TYPE CONNECTIONS TO GROUNDING ELECTRODE. GROUND RODS SHALL BE INSTALLED AT LIGHTING CONTROLLER, HANDHOLES AND JUNCTION BOXES.
- POLE WIRING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE LUMINAIRE PER ARTICLE 821.03 OF THE STANDARD SPECIFICATIONS.
- WHERE EXISTING CONDUCTORS ARE TO BE ABANDONED IN PLACE, THE CONDUCTORS SHALL BE DISCONNECTED AND ISOLATED FROM EXISTING CONDUCTORS WHICH ARE TO REMAIN ENERGIZED.
- THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN SERVICE FOR AS LONG AS POSSIBLE DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ROADWAY LIGHTING SHALL NOT BE OUT OF SERVICE FOR MORE THAN THIRTY (30) CONSECUTIVE CALENDAR DAYS WITHOUT A WRITTEN REQUEST FROM THE CONTRACTOR AND APPROVAL FROM THE CITY OF URBANA.
- THE EXISTING LIGHTING EQUIPMENT THAT IS NOTED TO BE SALVAGED SHALL REMAIN THE PROPERTY OF THE CITY OF URBANA AND SHALL BE MOVED TO AND STORED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICK UP BY THE CITY'S FORCES.
- CONDUITS ARE INDICATED AS TRENCHED OR AUGURED FOR INFORMATION PURPOSES. ALL CONDUIT WILL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR UNDERGROUND CONDUIT OF THE TYPE AND SIZE SPECIFIED.
- JUNCTION BOXES SHALL INCLUDE THE INTENDED USE CAST INTO THE COVER. SEE SPECIAL PROVISIONS.

BILL OF MATERIALS			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	380
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	4050
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	2
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	230
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	8170
81702145	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3	FOOT	7100
81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	1160
83000400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM	EACH	8
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	138
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	20
84200804	REMOVAL OF POLE FOUNDATION	EACH	2
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1
X8130110	JUNCTION BOX (SPECIAL)	EACH	38
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	10
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1
X8300001	LIGHT POLE, SPECIAL	EACH	25
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	10
X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	5
XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	8
XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	25

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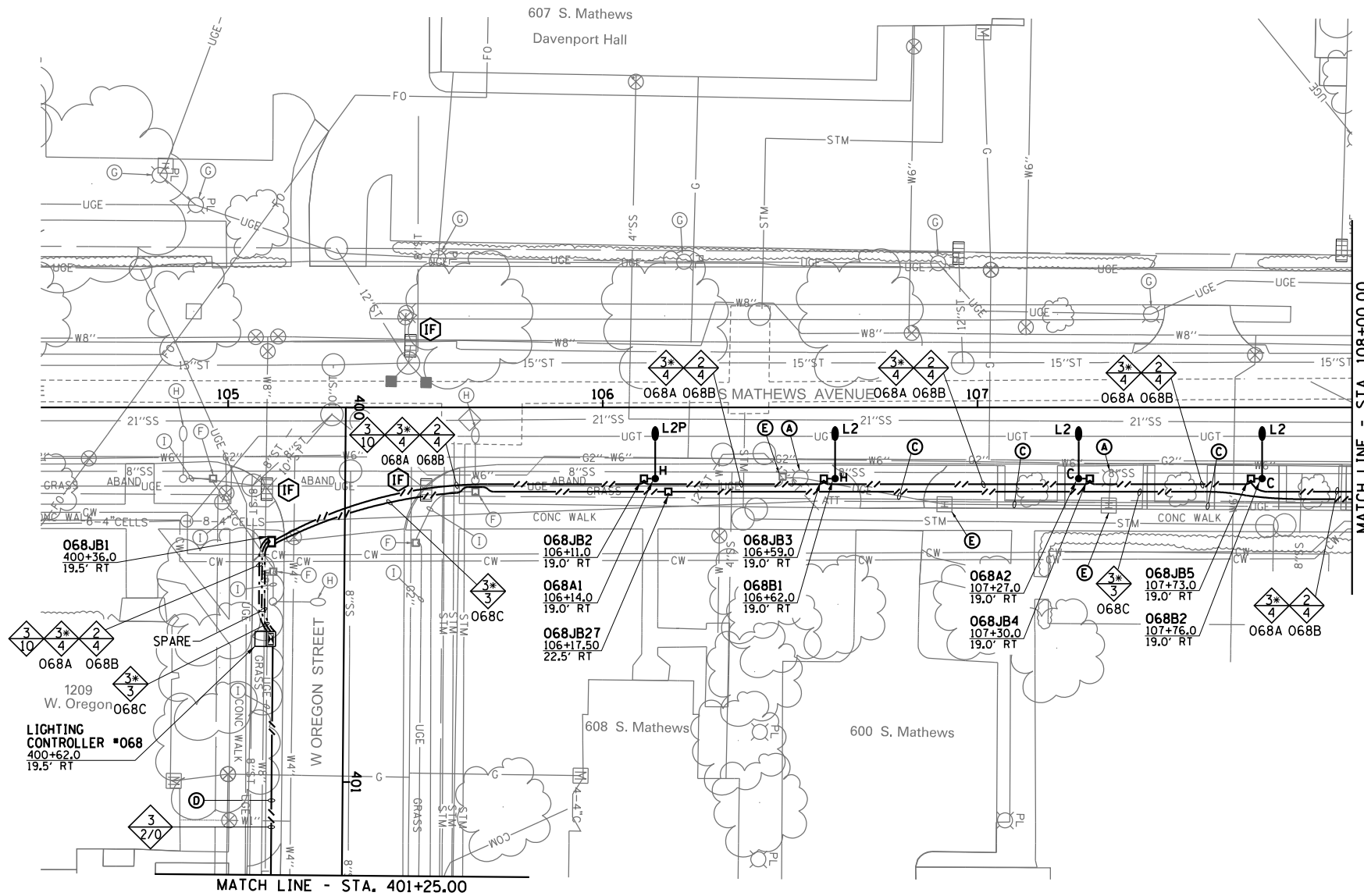
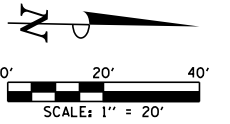
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CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

### ROADWAY LIGHTING PLANS

SCALE : NONE SHEET NO. 6 OF 24 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	6
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**KEYED NOTES**

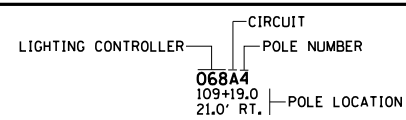
- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE.
- (B) EXISTING CONCRETE FOUNDATION TO BE REMOVED COMPLETE.
- (C) EXISTING CONDUIT AND CONDUCTORS TO BE CUT-OFF BELOW GRADE AND ABANDONED IN PLACE. ANY ABANDONED CONDUIT AND CONDUCTORS THAT INTERFERES WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AT THE POINT OF CONFLICT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- (D) PROVIDE THREE UNDERGROUND SERVICE CONDUCTORS IN 2" SCHEDULE 80 CONDUIT, EXTEND TO AMEREN ILLINOIS SERVICE POLE. COORDINATE WITH AMEREN ILLINOIS. SEE DETAIL.
- (E) EXISTING JUNCTION BOX TO BE REMOVED COMPLETE.
- (F) EXISTING HANDHOLE OR JUNCTION BOX TO REMAIN.
- (G) U OF I OR PRIVATELY OWNED EXISTING LIGHTING EQUIPMENT AND SYSTEM TO REMAIN AS PRESENTLY INSTALLED.
- (H) EXISTING CITY OF URBANA LIGHTING UNIT (POLE AND LUMINAIRE) TO REMAIN.
- (I) EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- (IF) INLET FILTER

SEE THE REMOVAL AND REPLACEMENT NOTES ON SHEET NO. 2 FOR THE TYPICAL LIMITS OF SIDEWALK REMOVAL, SIDEWALK INSTALLATION, BRICK PAVER REMOVAL AND REINSTALLATION, SODDING, AND AGGREGATE SURFACE COURSE.

THE EXISTING TOPOGRAPHIC AND UTILITY INFORMATION IS BASED ON THE UNIVERSITY OF ILLINOIS GIS FILE FROM AUGUST 2012. SEE GENERAL NOTES 4 AND 14 ON SHEET NO. 2 FOR ADDITIONAL INFORMATION.

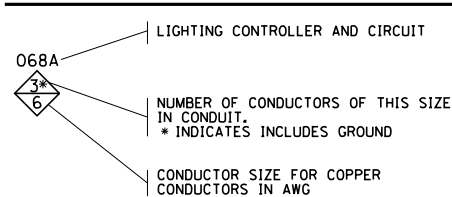
LIGHT POLE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER TO AVOID UTILITY CONFLICTS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**CIRCUIT DESIGNATION SCHEME**

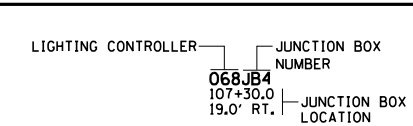


NOTE:  
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER BELOW THE HANDHOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT, AND POLE NUMBER.

**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



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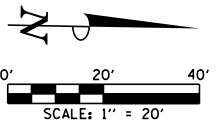
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DATE - JUNE 2021	REVISED -

CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**ROADWAY LIGHTING PLANS**

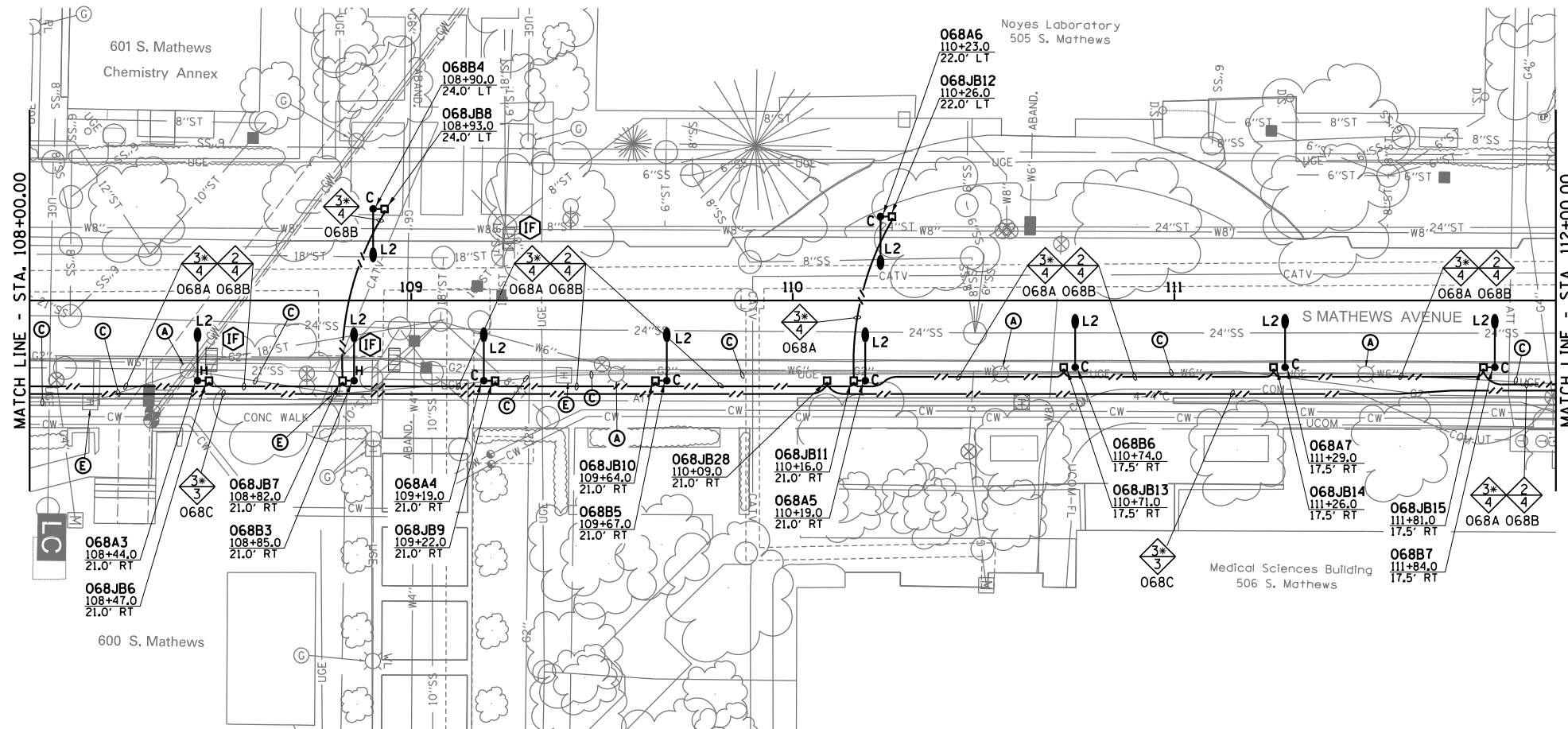
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	7
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			

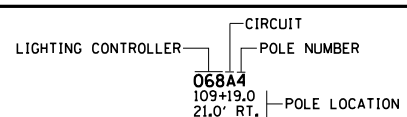


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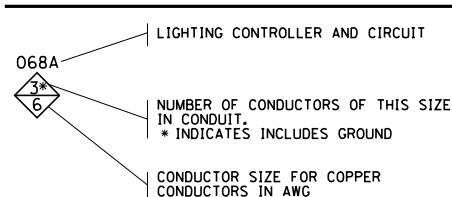
- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE.
  - (B) EXISTING CONCRETE FOUNDATION TO BE REMOVED COMPLETE.
  - (C) EXISTING CONDUIT AND CONDUCTORS TO BE CUT-OFF BELOW GRADE AND ABANDONED IN PLACE. ANY ABANDONED CONDUIT AND CONDUCTORS THAT INTERFERES WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AT THE POINT OF CONFLICT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
  - (D) PROVIDE THREE UNDERGROUND SERVICE CONDUCTORS IN 2" SCHEDULE 80 CONDUIT, EXTEND TO AMEREN ILLINOIS SERVICE POLE. COORDINATE WITH AMEREN ILLINOIS. SEE DETAIL.
  - (E) EXISTING JUNCTION BOX TO BE REMOVED COMPLETE.
  - (F) EXISTING HANDHOLE OR JUNCTION BOX TO REMAIN.
  - (G) U OF I OR PRIVATELY OWNED EXISTING LIGHTING EQUIPMENT AND SYSTEM TO REMAIN AS PRESENTLY INSTALLED.
  - (H) EXISTING CITY OF URBANA LIGHTING UNIT (POLE AND LUMINAIRE) TO REMAIN.
  - (I) EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- (IF) INLET FILTER



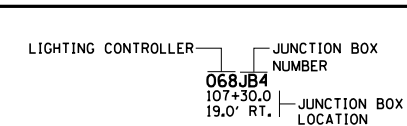
**CIRCUIT DESIGNATION SCHEME**



**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



SEE THE REMOVAL AND REPLACEMENT NOTES ON SHEET NO. 2 FOR THE TYPICAL LIMITS OF SIDEWALK REMOVAL, SIDEWALK INSTALLATION, BRICK PAVEMENT REMOVAL AND REINSTALLATION, SODDING, AND AGGREGATE SURFACE COURSE.

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LIGHT POLE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER TO AVOID UTILITY CONFLICTS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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6/23/2021 4:34:11 PM

DESIGNED - MLS  
DRAWN - MLS  
CHECKED - LMZ  
DATE - JUNE 2021

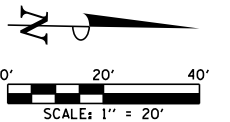
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CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**ROADWAY LIGHTING PLANS**

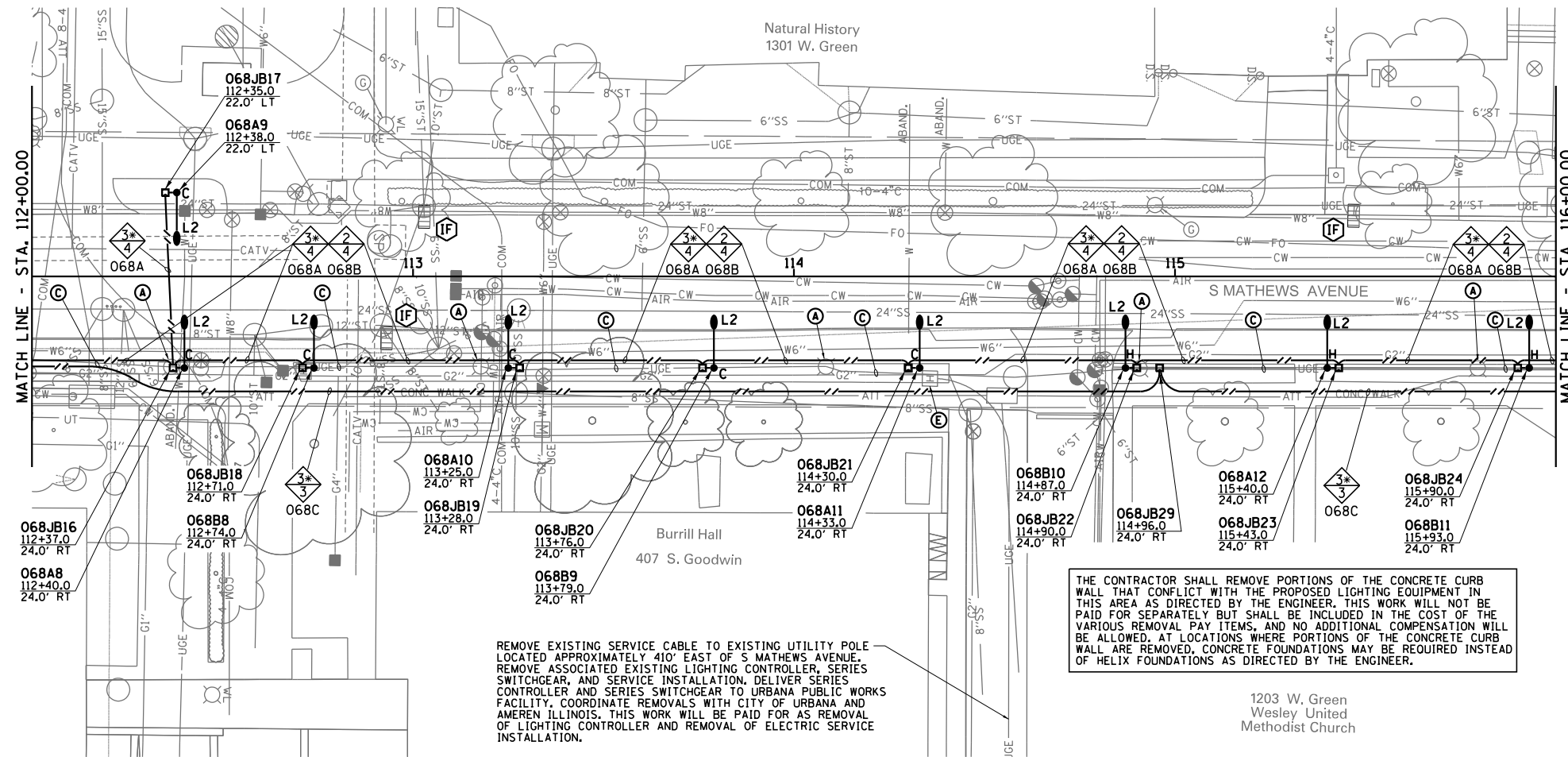
SCALE : 1"=20' SHEET NO. 8 OF 24 SHEETS STA. 108+00 TO STA. 112+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	8
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**KEYED NOTES**

- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE.
- (B) EXISTING CONCRETE FOUNDATION TO BE REMOVED COMPLETE.
- (C) EXISTING CONDUIT AND CONDUCTORS TO BE CUT-OFF BELOW GRADE AND ABANDONED IN PLACE. ANY ABANDONED CONDUIT AND CONDUCTORS THAT INTERFERES WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AT THE POINT OF CONFLICT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- (D) PROVIDE THREE UNDERGROUND SERVICE CONDUCTORS IN 2" SCHEDULE 80 CONDUIT, EXTEND TO AMEREN ILLINOIS SERVICE POLE. COORDINATE WITH AMEREN ILLINOIS. SEE DETAIL.
- (E) EXISTING JUNCTION BOX TO BE REMOVED COMPLETE.
- (F) EXISTING HANDHOLE OR JUNCTION BOX TO REMAIN.
- (G) U OF I OR PRIVATELY OWNED EXISTING LIGHTING EQUIPMENT AND SYSTEM TO REMAIN AS PRESENTLY INSTALLED.
- (H) EXISTING CITY OF URBANA LIGHTING UNIT (POLE AND LUMINAIRE) TO REMAIN.
- (I) EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- (IF) INLET FILTER

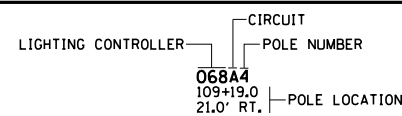


REMOVE EXISTING SERVICE CABLE TO EXISTING UTILITY POLE LOCATED APPROXIMATELY 410' EAST OF S MATHIEWS AVENUE. REMOVE ASSOCIATED EXISTING LIGHTING CONTROLLER, SERIES SWITCHGEAR, AND SERVICE INSTALLATION. DELIVER SERIES CONTROLLER AND SERIES SWITCHGEAR TO URBANA PUBLIC WORKS FACILITY. COORDINATE REMOVALS WITH CITY OF URBANA AND AMEREN ILLINOIS. THIS WORK WILL BE PAID FOR AS REMOVAL OF LIGHTING CONTROLLER AND REMOVAL OF ELECTRIC SERVICE INSTALLATION.

THE CONTRACTOR SHALL REMOVE PORTIONS OF THE CONCRETE CURB WALL THAT CONFLICT WITH THE PROPOSED LIGHTING EQUIPMENT IN THIS AREA AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE VARIOUS REMOVAL PAY ITEMS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. AT LOCATIONS WHERE PORTIONS OF THE CONCRETE CURB WALL ARE REMOVED, CONCRETE FOUNDATIONS MAY BE REQUIRED INSTEAD OF HELIX FOUNDATIONS AS DIRECTED BY THE ENGINEER.

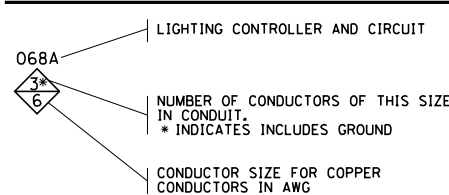
1203 W. Green  
Wesley United  
Methodist Church

**CIRCUIT DESIGNATION SCHEME**

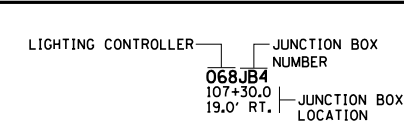


NOTE:  
THE CONTRACTOR SHALL PROVIDE A PERMANENT STICKER BELOW THE HANDHOLE OF EACH LIGHT POLE INDICATING THE LIGHTING CONTROLLER, CIRCUIT, AND POLE NUMBER.

**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



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	DATE - JUNE 2021	REVISED -

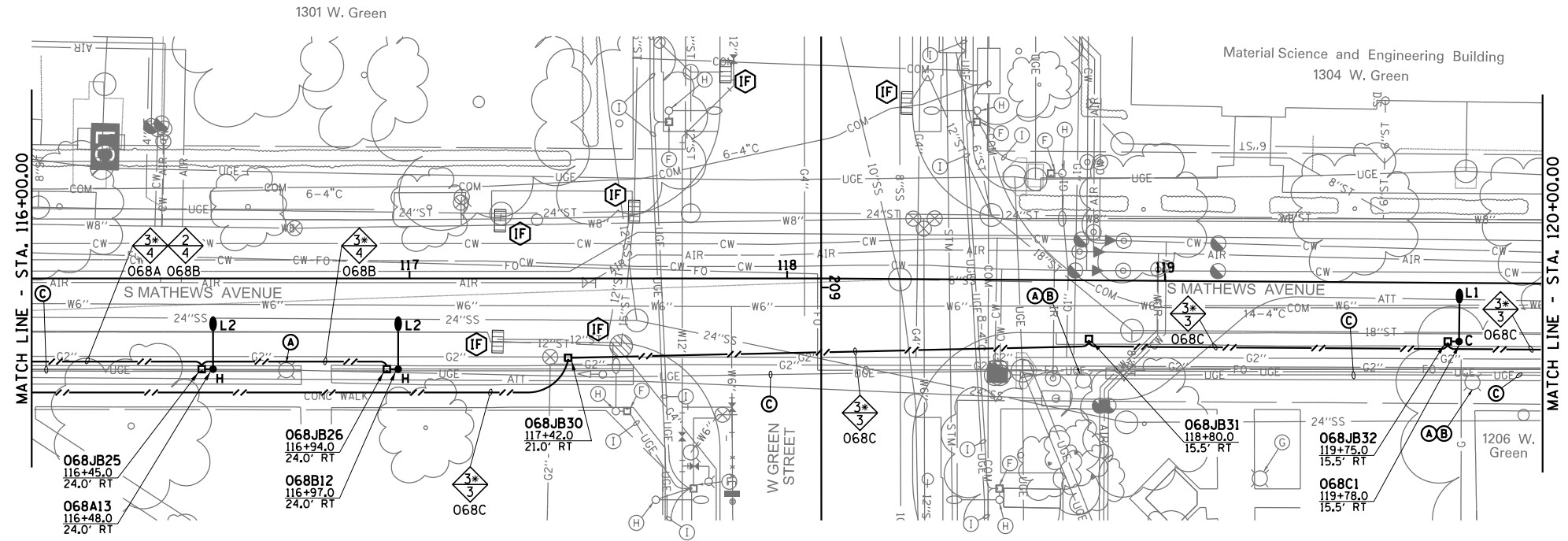
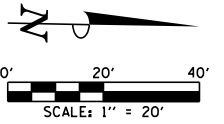
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DATE - JUNE 2021	REVISED -

CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**ROADWAY LIGHTING PLANS**

SCALE : 1"=20' SHEET NO. 9 OF 24 SHEETS STA. 112+00 TO STA. 116+00

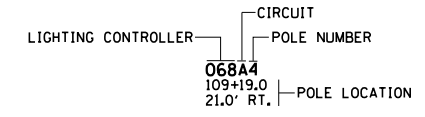
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	9
MATHIEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



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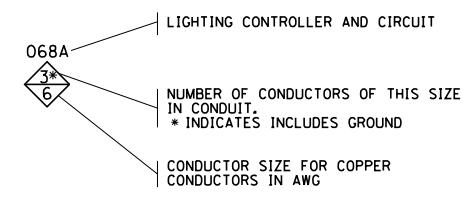
- ### KEYED NOTES
- (A) EXISTING LIGHTING UNIT (POLE AND LUMINAIRE) TO BE REMOVED COMPLETE.
  - (B) EXISTING CONCRETE FOUNDATION TO BE REMOVED COMPLETE.
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- IF INLET FILTER

#### CIRCUIT DESIGNATION SCHEME

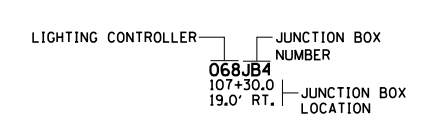


NOTE:  
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#### CONDUCTOR SYMBOL SCHEME



#### JUNCTION BOX DESIGNATION SCHEME



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DATE -	JUNE 2021	REVISED -	

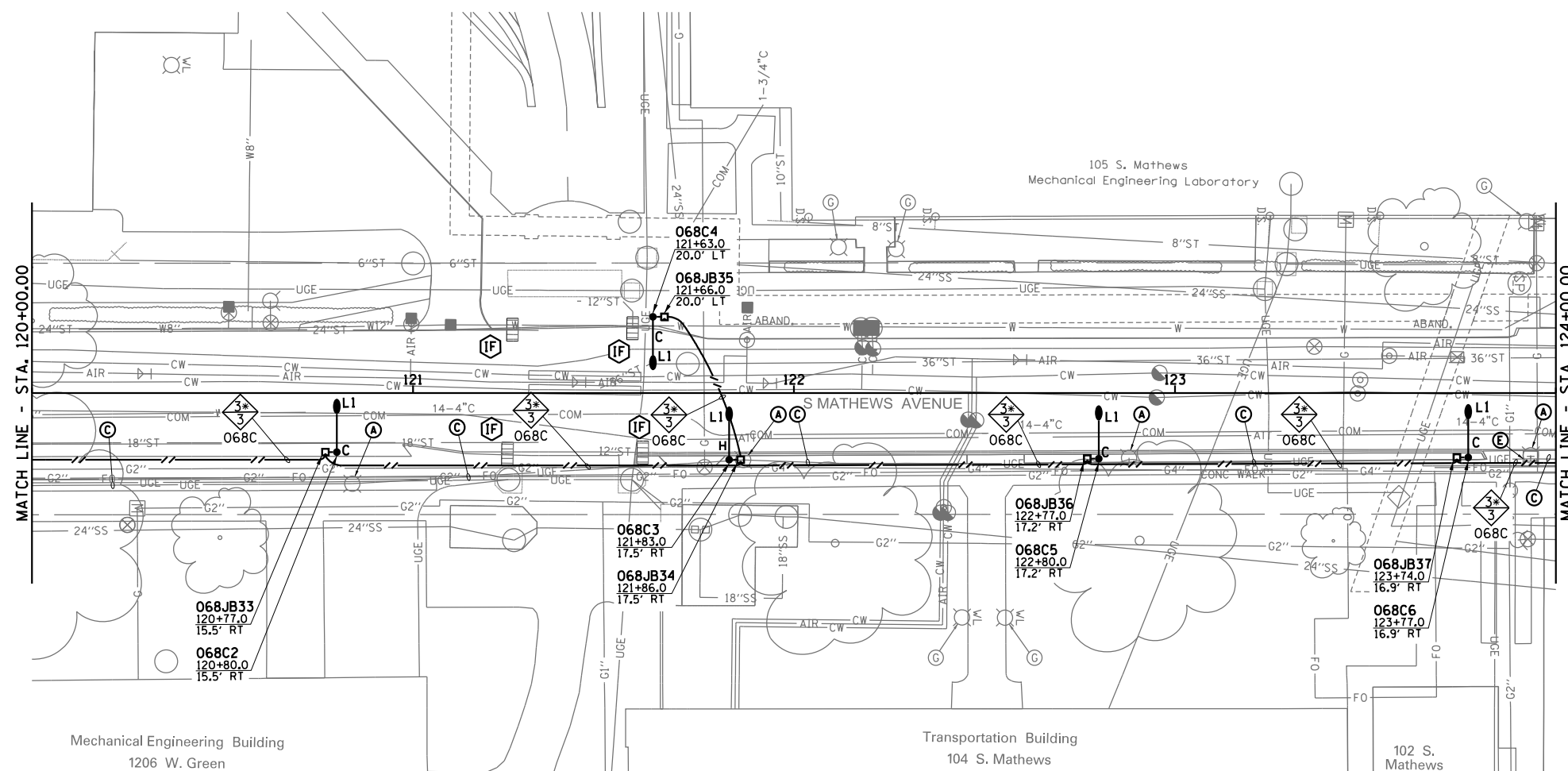
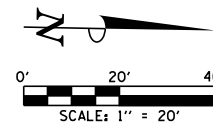
CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

### ROADWAY LIGHTING PLANS

SCALE : 1"=20' SHEET NO. 10 OF 24 SHEETS STA. 116+00 TO STA. 120+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	10
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			





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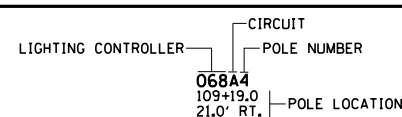
(IF) INLET FILTER

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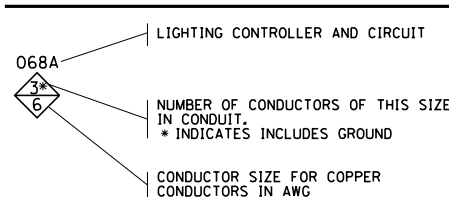
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**CIRCUIT DESIGNATION SCHEME**

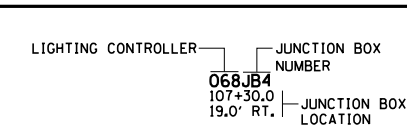


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**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



FILE NAME =  
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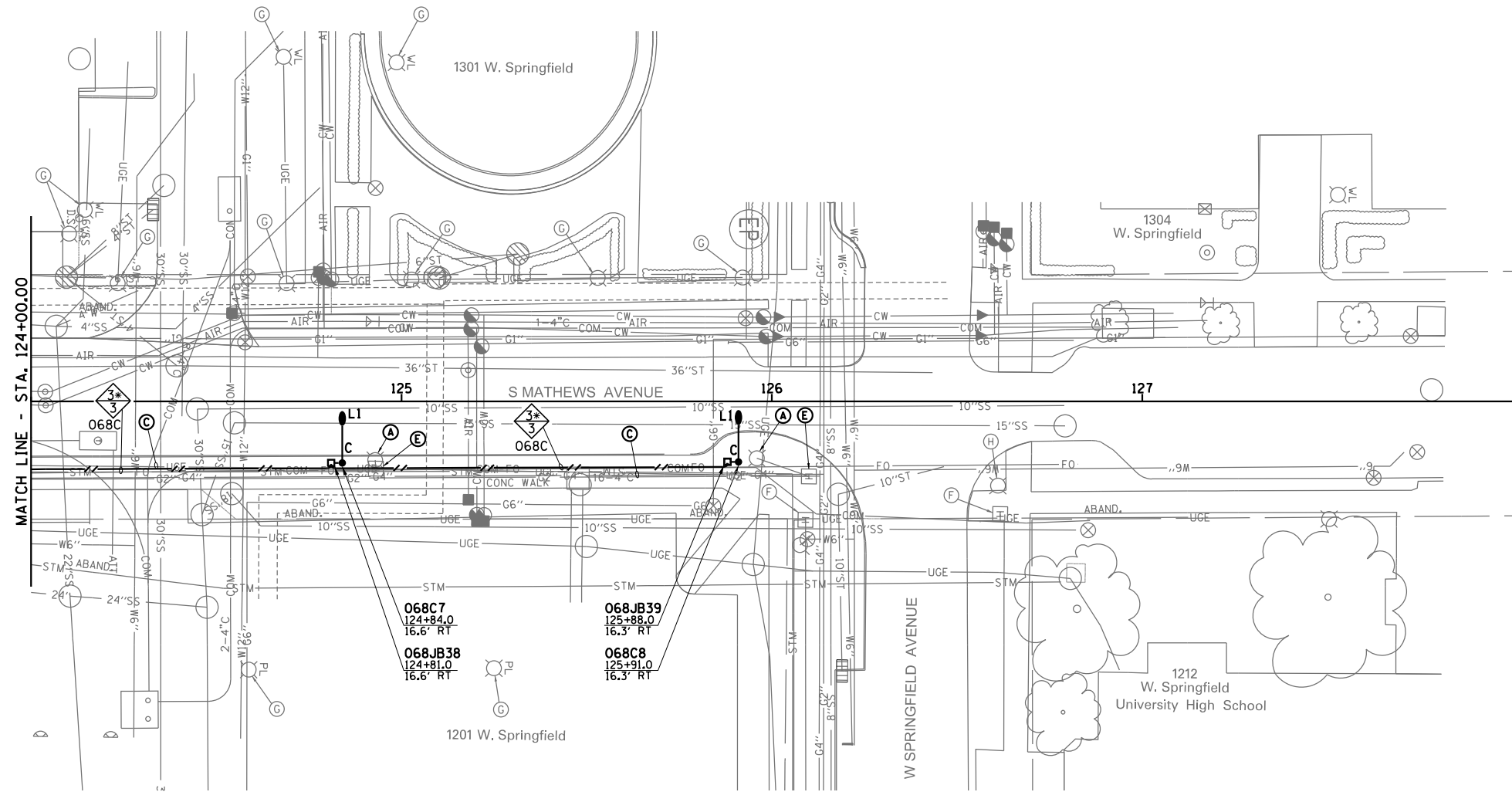
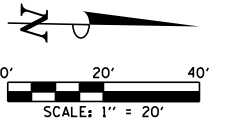
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DATE -	JUNE 2021	REVISED -	

CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**ROADWAY LIGHTING PLANS**

SCALE : 1"=20' SHEET NO. 11 OF 24 SHEETS STA. 120+00 TO STA. 124+00

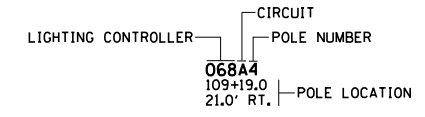
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	11
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**KEYED NOTES**

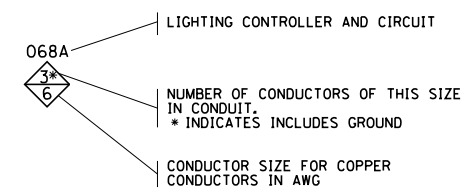
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**CIRCUIT DESIGNATION SCHEME**

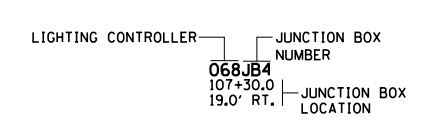


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**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



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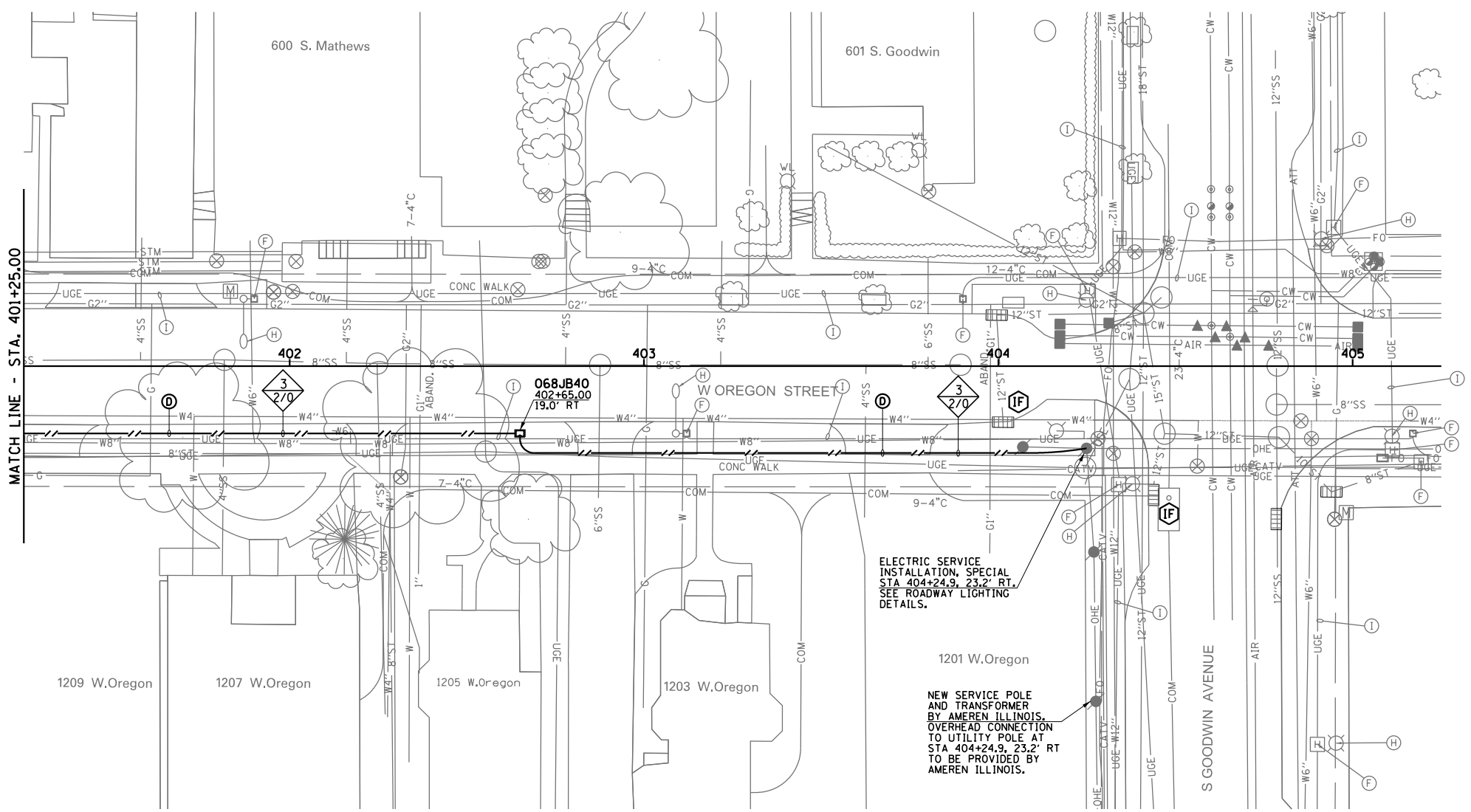
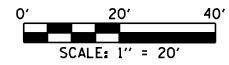
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CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

ROADWAY LIGHTING PLANS			
SCALE : 1"=20'	SHEET NO. 12 OF 24 SHEETS	STA. 124+00	TO STA. 125+91

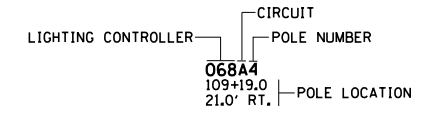
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	12
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**KEYED NOTES**

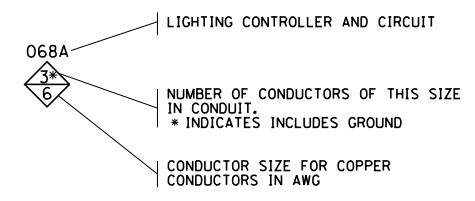
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**CIRCUIT DESIGNATION SCHEME**

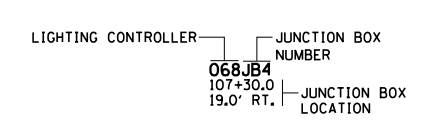


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**CONDUCTOR SYMBOL SCHEME**



**JUNCTION BOX DESIGNATION SCHEME**



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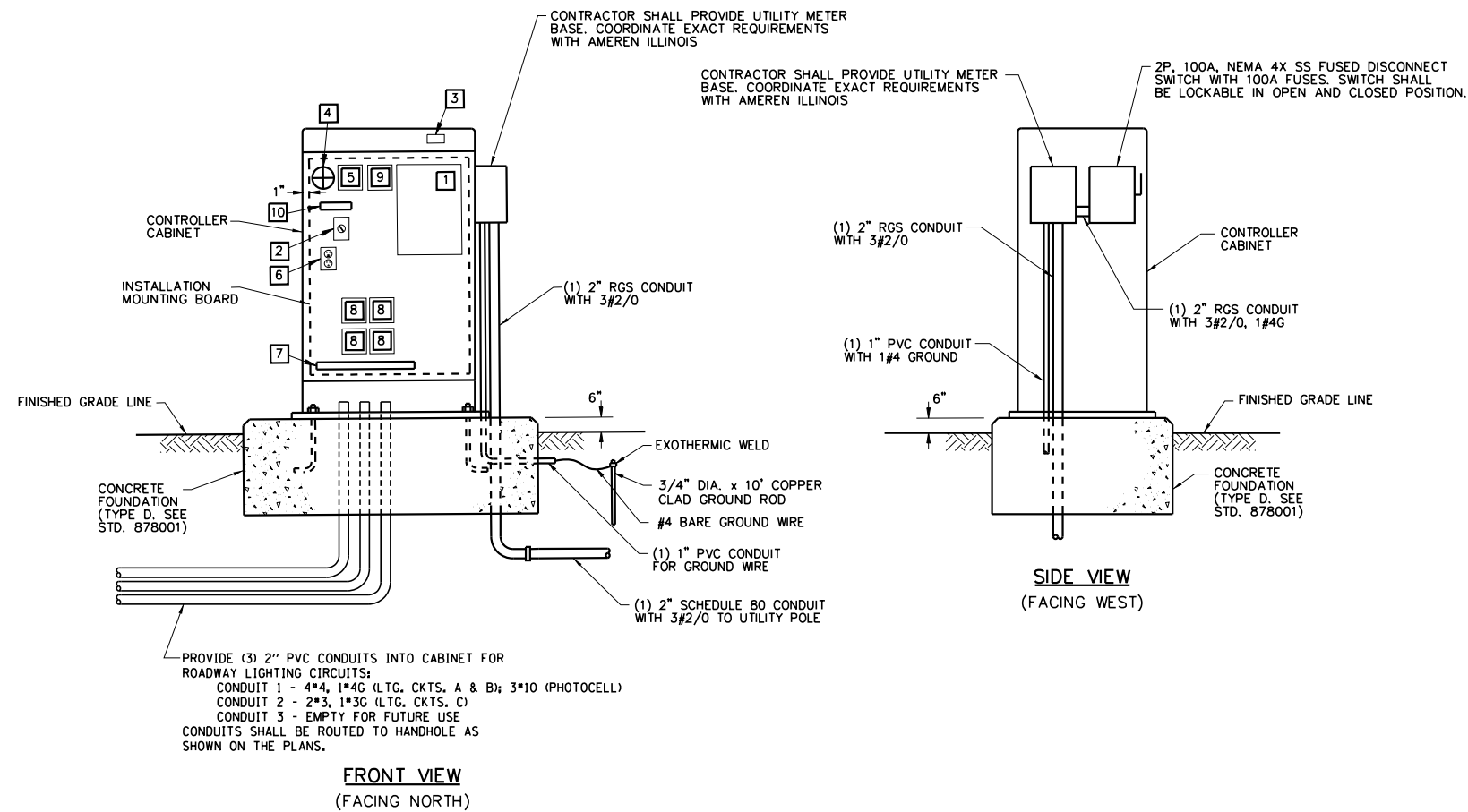
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CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**ROADWAY LIGHTING PLANS**

SCALE : 1"=20' SHEET NO. 13 OF 24 SHEETS STA. 401+25 TO STA. 405+25

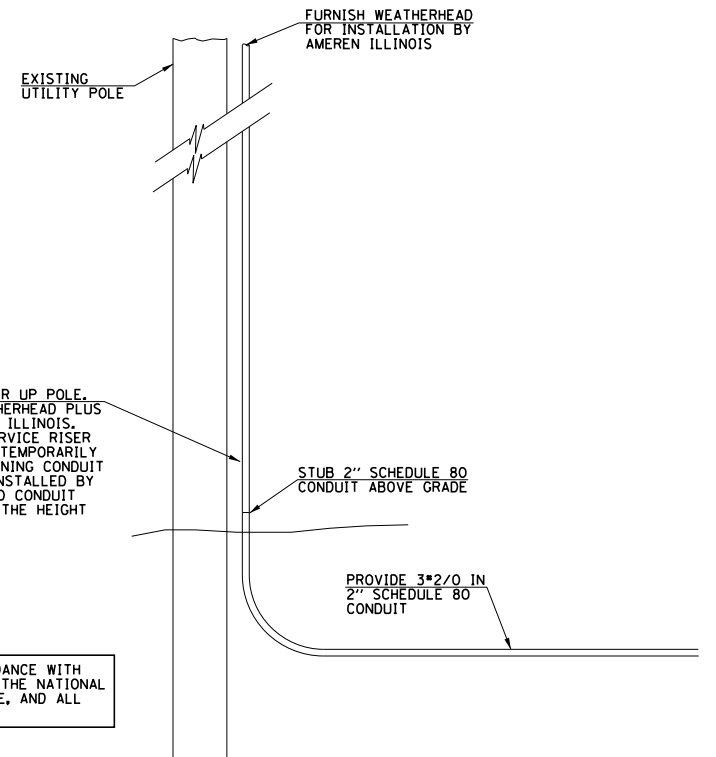
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	13
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



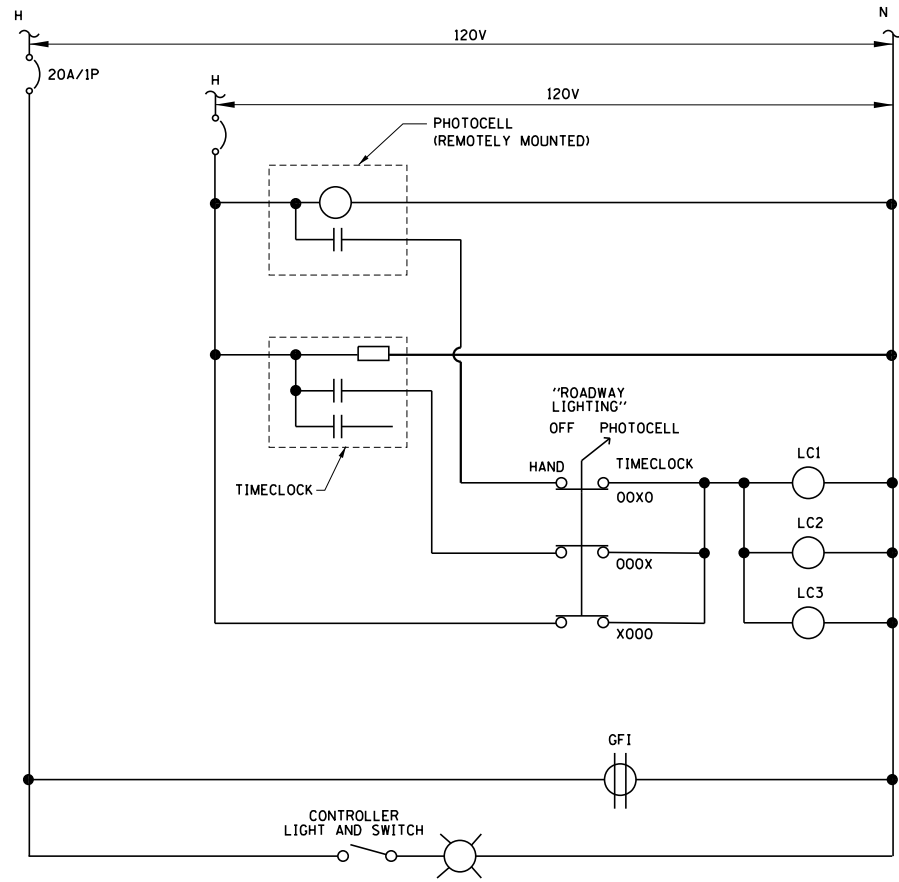
**CONTROL CABINET, FOUNDATION AND DIAGRAMMATIC ASSEMBLY DETAIL LIGHTING CONTROLLER #068**  
NO SCALE

LIGHTING CONTROLLER #068 BILL OF MATERIALS		
QTY	ITEM	DESCRIPTION
1	1	100A, 120/240V, 1ø, 30 CIRCUIT PANELBOARD (INTERIOR ONLY, NO PANEL TUB), QUANTITIES OF BREAKERS AS SHOWN IN PANELBOARD SCHEDULES.
1	2	HAND-OFF-PHOTOCELL-TIMER SELECTOR SWITCH WITH LEGEND PLATE.
1	3	120VAC, 20A, 1P PLUNGERTYPE SWITCH FOR CONTROLLER LIGHT, DOOR ACTIVATED.
1	4	INCANDESCENT LIGHT FIXTURE WITH CLEAR GLOBE AND PROTECTIVE GUARD. PROVIDE 60 WATT, 130VAC LAMP.
1	5	ASTRONOMICAL TIME CLOCK WITH CAPACITANCE MEMORY BACKUP. ONE CIRCUIT TO CONTROL LIGHTING CONTACTORS.
1	6	DUPLEX RECEPTACLE, 120VAC, 20A, GFCI TYPE.
1	7	TERMINAL STRIPS. QUANTITY AS REQUIRED FOR INCOMING WIRING PLUS 100% SPARE TERMINALS. PROVIDE SEPARATE TERMINAL STRIPS FOR POWER, NEUTRAL AND GROUND WIRING AS REQUIRED.
3	8	LIGHTING CONTACTOR (LC1, LC2, LC3), 30A, 240VAC, 4 POLE, 120VAC ELECTRICALLY HELD COIL. PROVIDE SPACE FOR ADDITIONAL CONTACTORS.
1	9	SURGE ARRESTOR.
1	10	CONTROL WIRING TERMINAL BLOCK.

NOTE: PHOTOCELL IS REMOTELY MOUNTED TO LUMINAIRE ON ADJACENT LIGHT POLE.



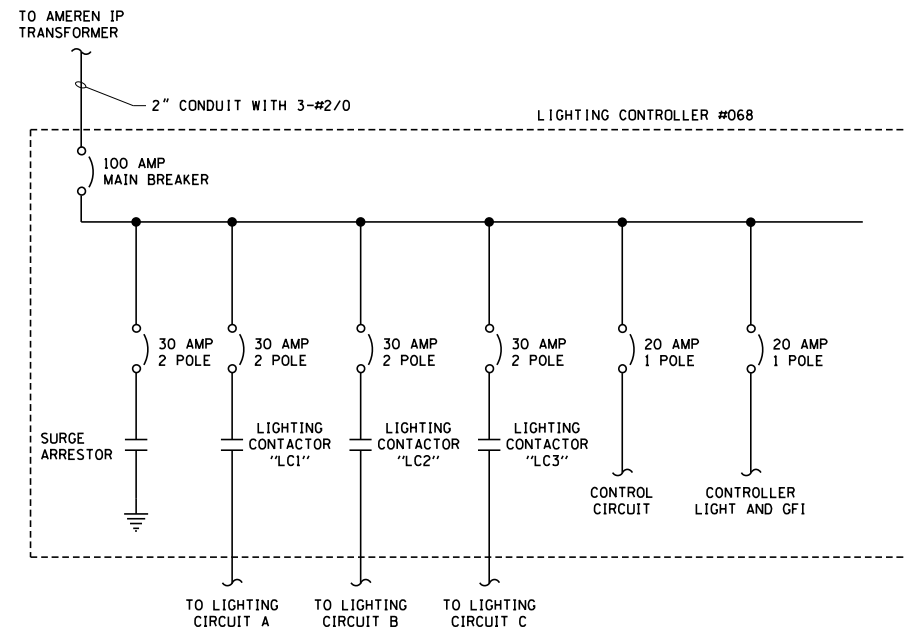
**ELECTRIC SERVICE INSTALLATION, SPECIAL DIAGRAM**  
NO SCALE



**NOTE:**  
GROUND WIRE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL GROUND ALL EQUIPMENT IN THE LIGHTING CONTROL CABINET AS REQUIRED BY THE 2020 NATIONAL ELECTRICAL CODE.

**LIGHTING CONTROLLER #068 CONTROL DIAGRAM**  
NO SCALE

LIGHTING CONTROLLER #068 PANELBOARD SCHEDULE												
PANELBOARD	LIGHTING		MAIN 100 AMP CIRCUIT BREAKER				LOCATION: OREGON ST. STA. 400+62.0. 19.50' RT.					
VOLTAGE	120/240		BUS RATING 100 AMPS									
PHASE/WIRE	1PH/3W		MOUNTING INTERIOR ONLY									
DESCRIPTION	CKT. NO.	LOAD (VA)		AMPS/POLES	CKT. BKR.	CKT. BKR.	AMPS/POLES	LOAD (VA)		CKT. NO.	DESCRIPTION	
		A	B					A	B			
SURGE ARRESTOR	1	0								2	STREET LIGHTING CIRCUIT B	
	3		0	30/2			30/2	1530	1530	4		
STREET LIGHTING CIRCUIT A	5	1785								6	STREET LIGHTING CIRCUIT C	
	7		1785	30/2			30/2	980	980	8		
SPACE	9	0					20/1	250		10	CONTROLLER CIRCUIT	
SPACE	11		0				20/1	250		12	CONTROLLER LIGHT & GF1	
SPACE	13	0						0		14	SPACE	
SPACE	15		0					0		16	SPACE	
SPACE	17	0						0		18	SPACE	
SPACE	19		0					0		20	SPACE	
SPACE	21	0						0		22	SPACE	
SPACE	23		0					0		24	SPACE	
SPACE	25	0						0		26	SPACE	
SPACE	27		0					0		28	SPACE	
SPACE	29	0						0		30	SPACE	
SUBTOTAL "A"		1785						2760				
SUBTOTAL "B"				1785						2760		
TOTAL VOLT-AMPERES A & B: 9.090												



**LIGHTING CONTROLLER #068 ELECTRICAL ONE-LINE DIAGRAM**  
NO SCALE

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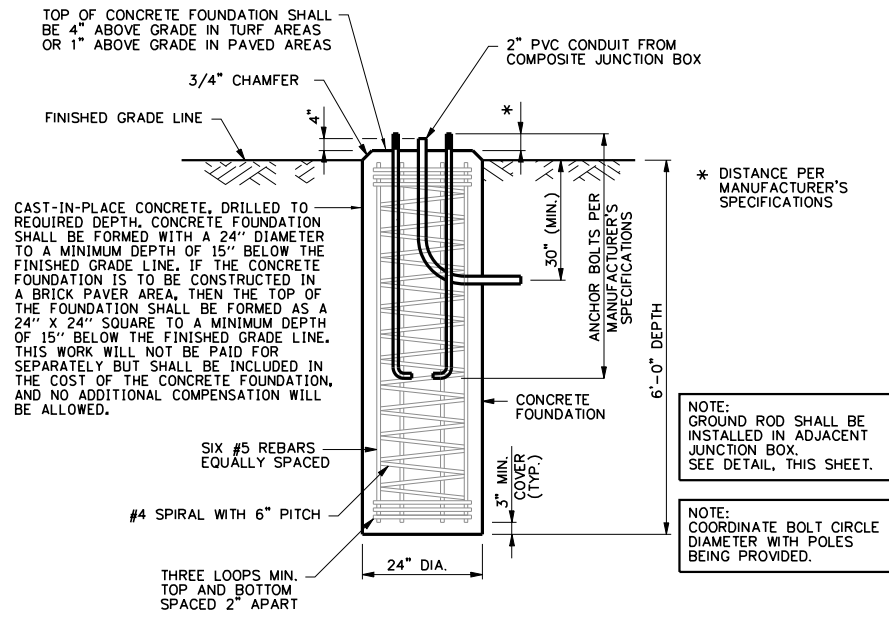
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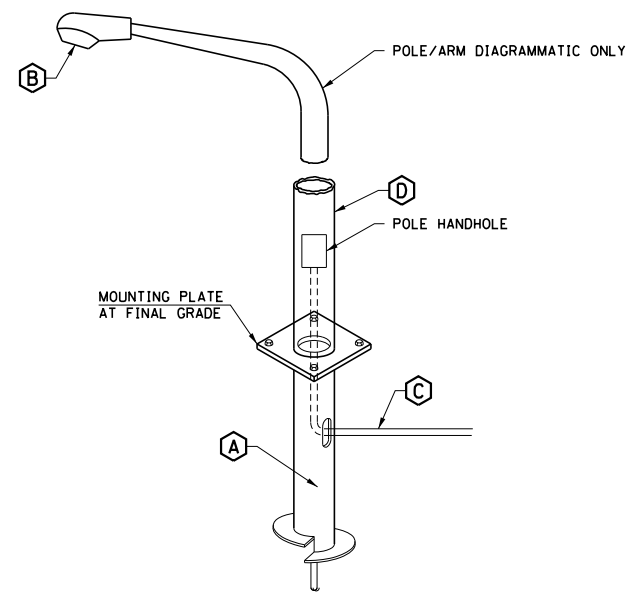
**ROADWAY LIGHTING DETAILS**

SCALE : NONE SHEET NO. 15 OF 24 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	15
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



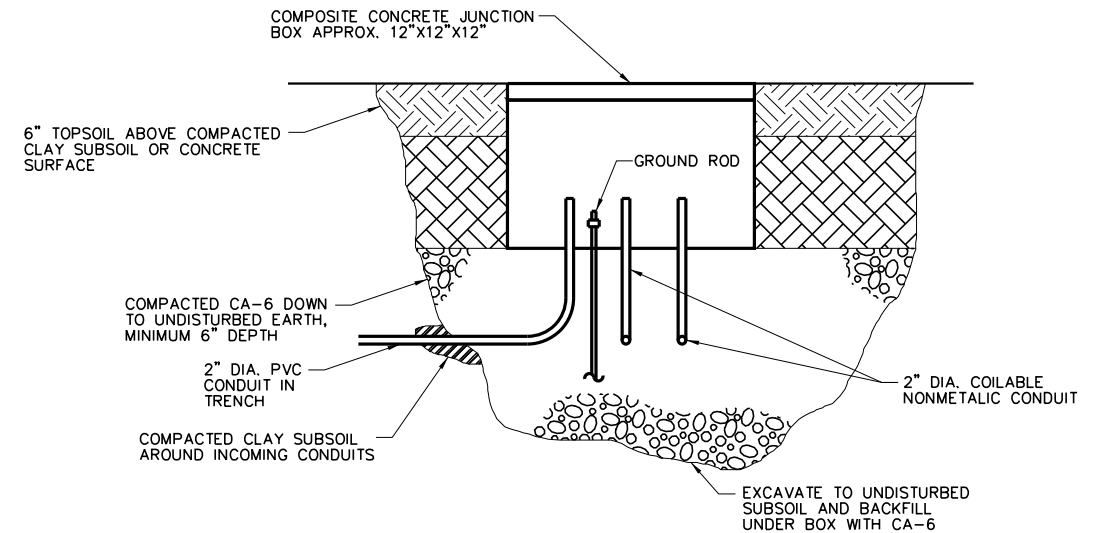
**LIGHT POLE FOUNDATION, 24" DIAMETER DETAIL**  
NO SCALE



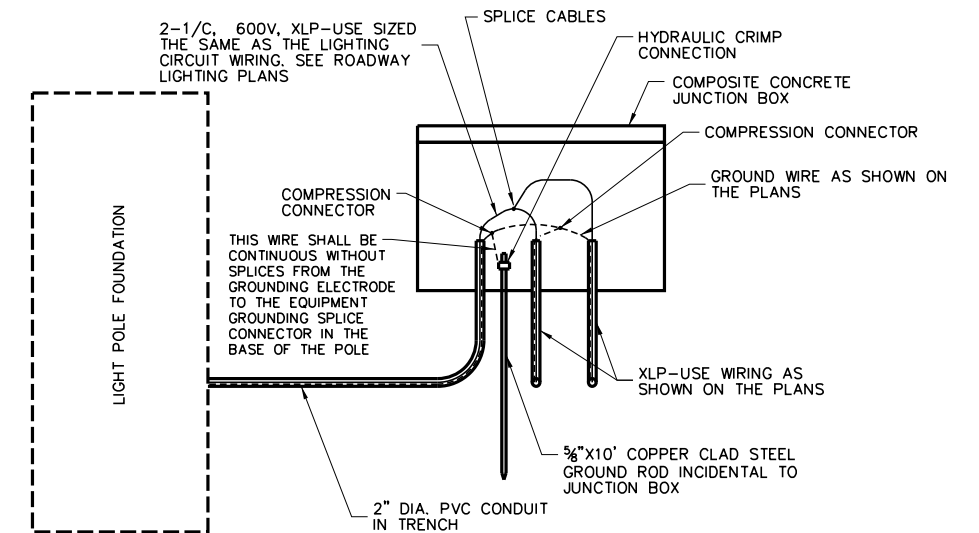
**LIGHT POLE FOUNDATION, SPECIAL INSTALLATION DETAIL**  
NO SCALE

**KEYED NOTES**

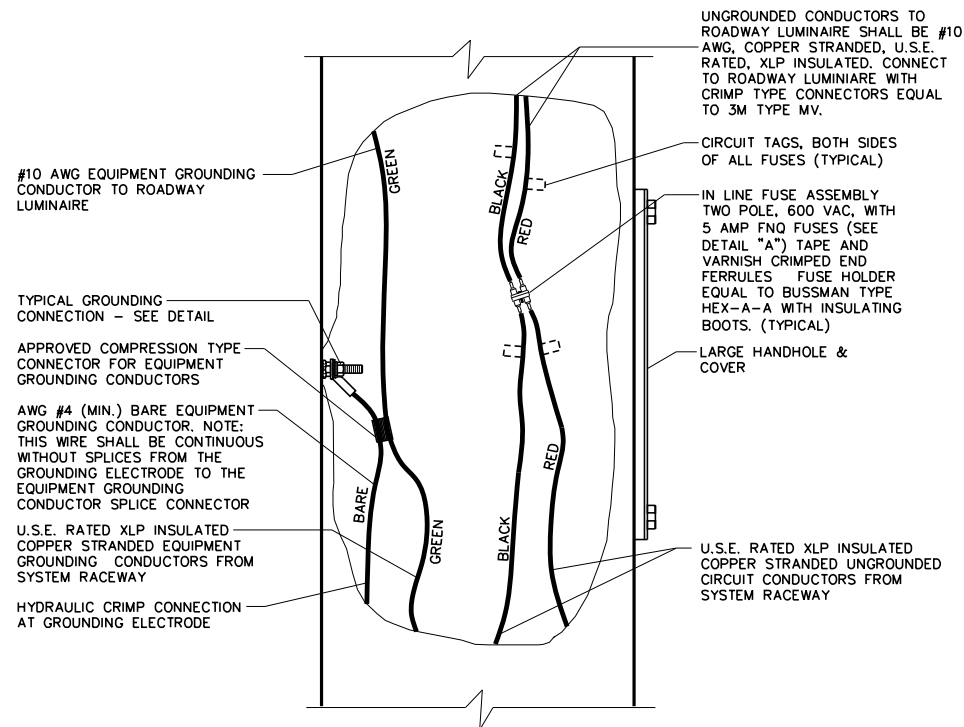
- (A) METAL FOUNDATION IN ACCORDANCE WITH STANDARD 836001 AND THE SPECIAL PROVISIONS.
- (B) LED LUMINAIRE AS SHOWN ON THE PLANS.
- (C) CONDUIT AND CABLE TO GULBOX JUNCTION OR JUNCTION BOX SPECIAL AS SHOWN ON THE PLANS.
- (D) ALUMINUM LIGHT POLE AS SHOWN ON THE PLANS.



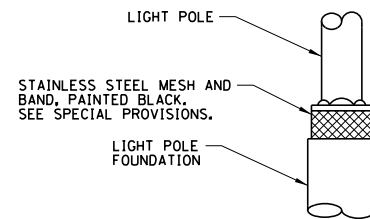
**JUNCTION BOX INSTALLATION DETAIL**  
NO SCALE



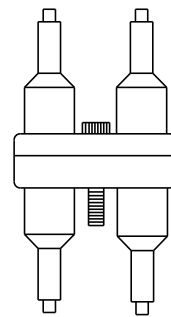
**GROUNDING ROD INSTALLATION DETAIL**  
NO SCALE



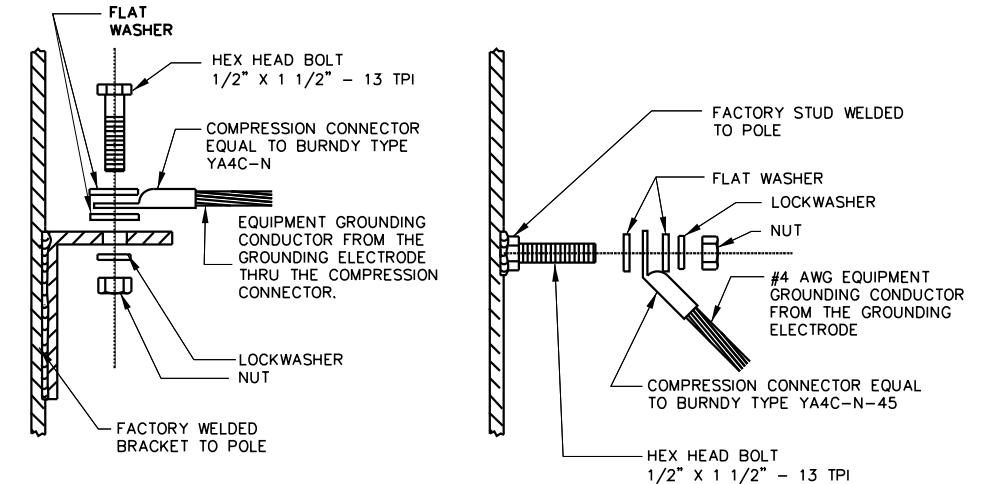
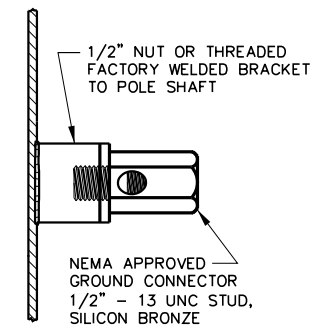
**2 WIRE - 240 VAC (UNGROUNDING CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR**  
NO SCALE



**STAINLESS STEEL MESH AND BAND**  
NO SCALE



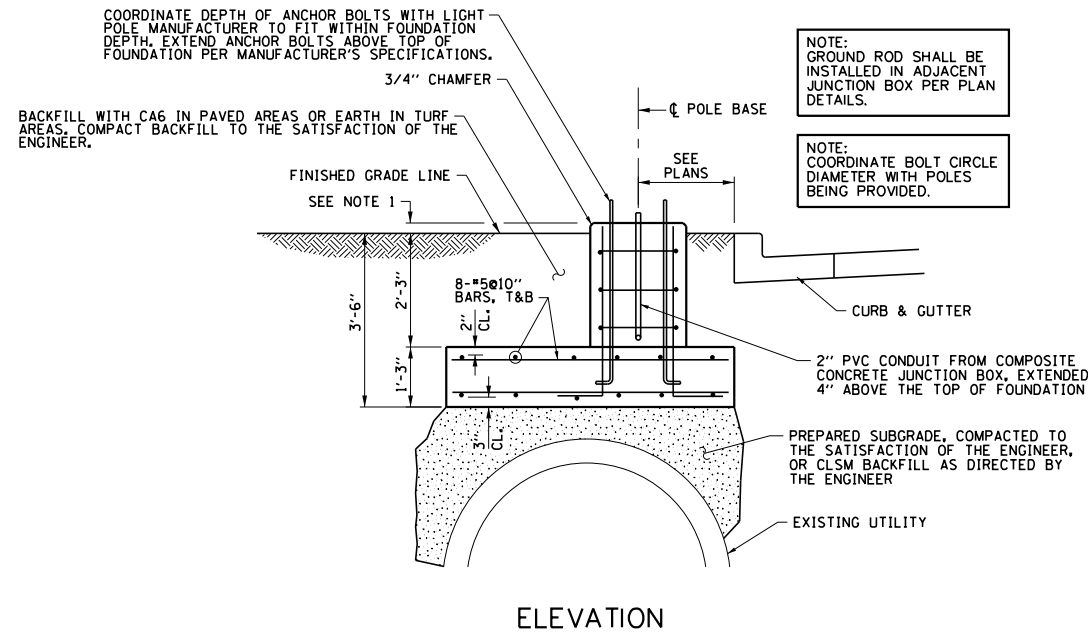
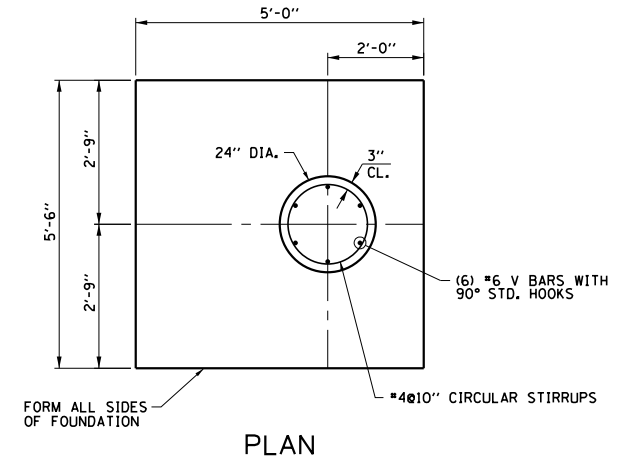
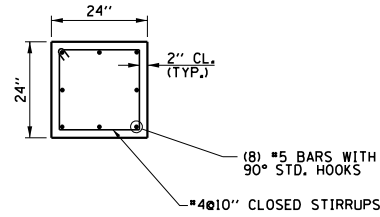
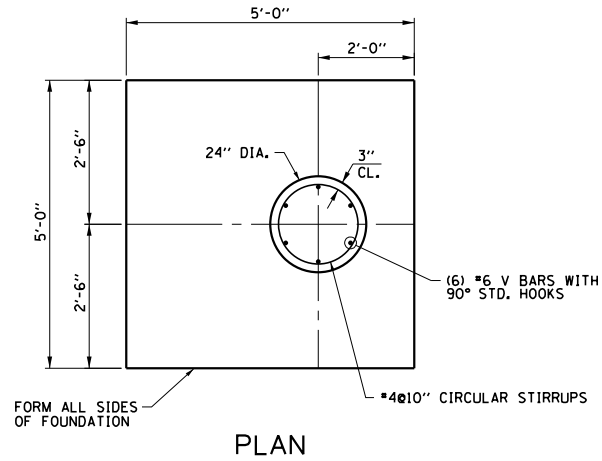
**DETAIL "A" DOUBLE POLE**



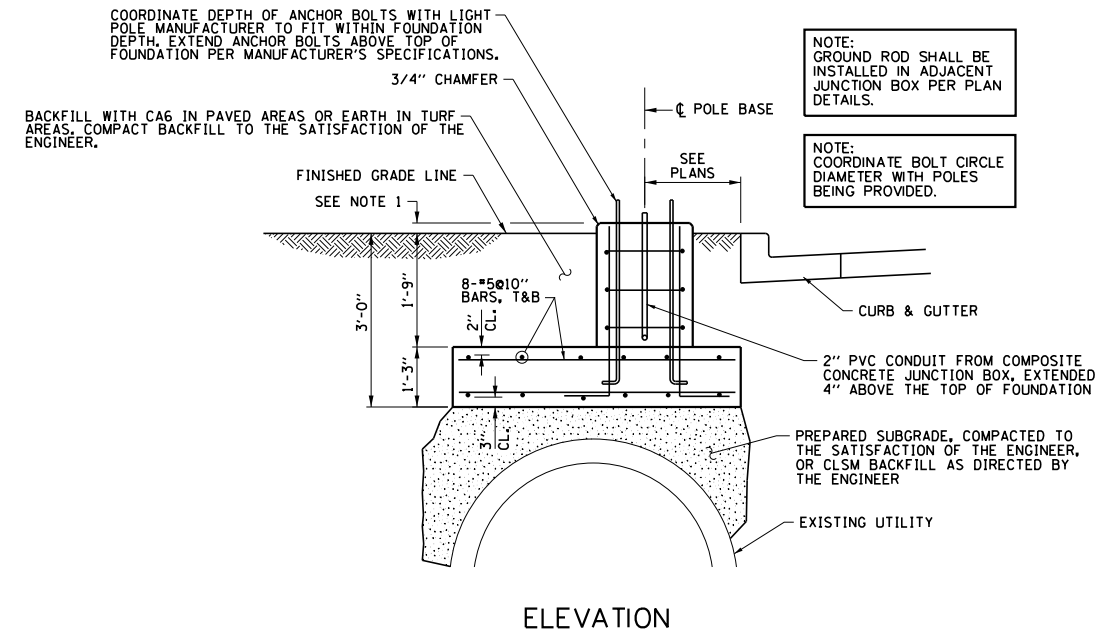
NOTE: NUT, BOLT, AND WASHERS SHALL BE STAINLESS STEEL

**TYPICAL GROUNDING CONNECTIONS**  
NO SCALE





**FOUNDATION DEPTH = 3'-6"**



**FOUNDATION DEPTH = 3'-0"**

**NOTES**

1. THE TOP OF THE CONCRETE FOUNDATION SHALL BE 4" ABOVE THE FINISHED GRADE LINE IN TURF AREAS OR 1" ABOVE THE FINISHED GRADE LINE IN PAVED AREAS.
2. THE TOP OF THE CONCRETE FOUNDATION SHALL BE FORMED CIRCULAR WITH A 24" DIAMETER FOR THE FULL HEIGHT.
3. IF THE CONCRETE FOUNDATION IS TO BE CONSTRUCTED IN A BRICK PAVER AREA, THEN THE TOP OF THE CONCRETE FOUNDATION SHALL BE FORMED AS A 24" X 24" SQUARE FOR THE FULL HEIGHT.
4. THE SIDES OF THE CONCRETE FOUNDATION SHALL BE FORMED WITH CLEAN, STRAIGHT LUMBER.
5. CONCRETE FOUNDATIONS (SPECIAL) SHALL BE USED AT THE LOCATIONS DETERMINED BY THE ENGINEER. THE 3'-6" DEEP FOUNDATION SHALL BE USED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR CONCRETE FOUNDATIONS (SPECIAL), WHICH SHALL INCLUDE ALL REQUIRED EXCAVATION AND BACKFILL.

**CONCRETE FOUNDATIONS (SPECIAL) DETAIL**  
NO SCALE

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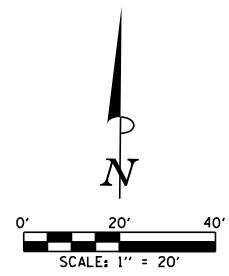
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**ROADWAY LIGHTING DETAILS**

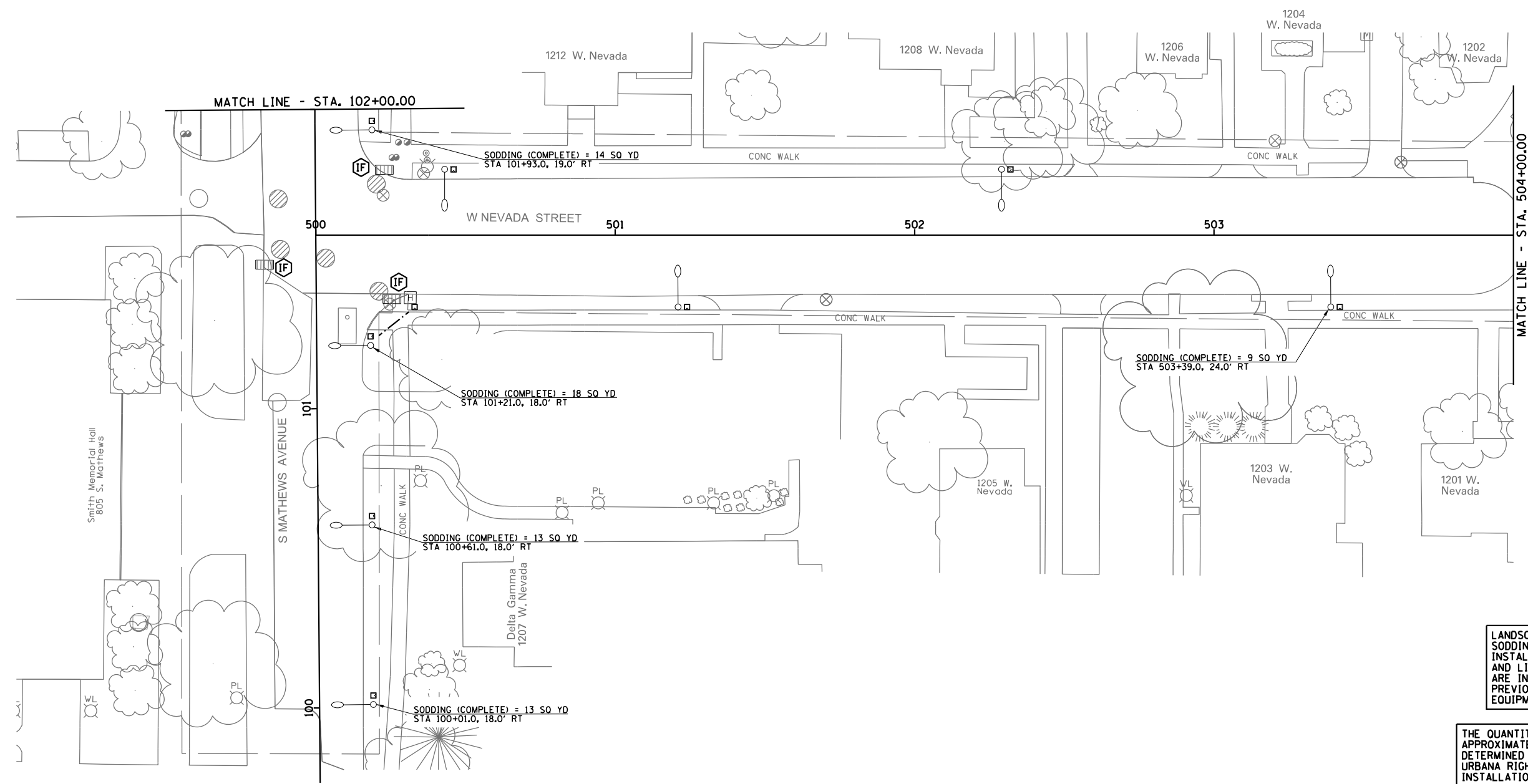
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	17
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**LEGEND**

IF INLET FILTER



LANDSCAPE PLANS ARE NOT INCLUDED FOR THE SODDING REQUIRED FOR THE REMOVAL AND/OR INSTALLATION OF LIGHT POLES, JUNCTION BOXES, AND LIGHTING CONTROLLERS. LANDSCAPE PLANS ARE INCLUDED FOR THE SODDING REQUIRED AT PREVIOUSLY REMOVED OR INSTALLED LIGHTING EQUIPMENT LOCATIONS.

THE QUANTITIES SHOWN FOR SODDING (COMPLETE) ARE APPROXIMATE. THE FINAL SODDING LOCATIONS WILL BE DETERMINED BY THE ENGINEER. REFER TO THE CITY OF URBANA RIGHT-OF-WAY STANDARD DRAWING "SODDING INSTALLATION" FOR ADDITIONAL INFORMATION.

THE EXISTING TOPOGRAPHIC AND UTILITY INFORMATION IS BASED ON THE UNIVERSITY OF ILLINOIS GIS FILE FROM AUGUST 2012. SEE GENERAL NOTES 4 AND 14 ON SHEET NO. 2 FOR ADDITIONAL INFORMATION.

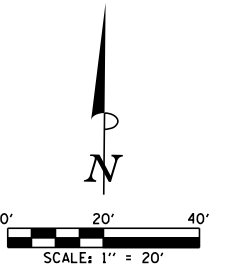
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DATE - JUNE 2021	REVISED -

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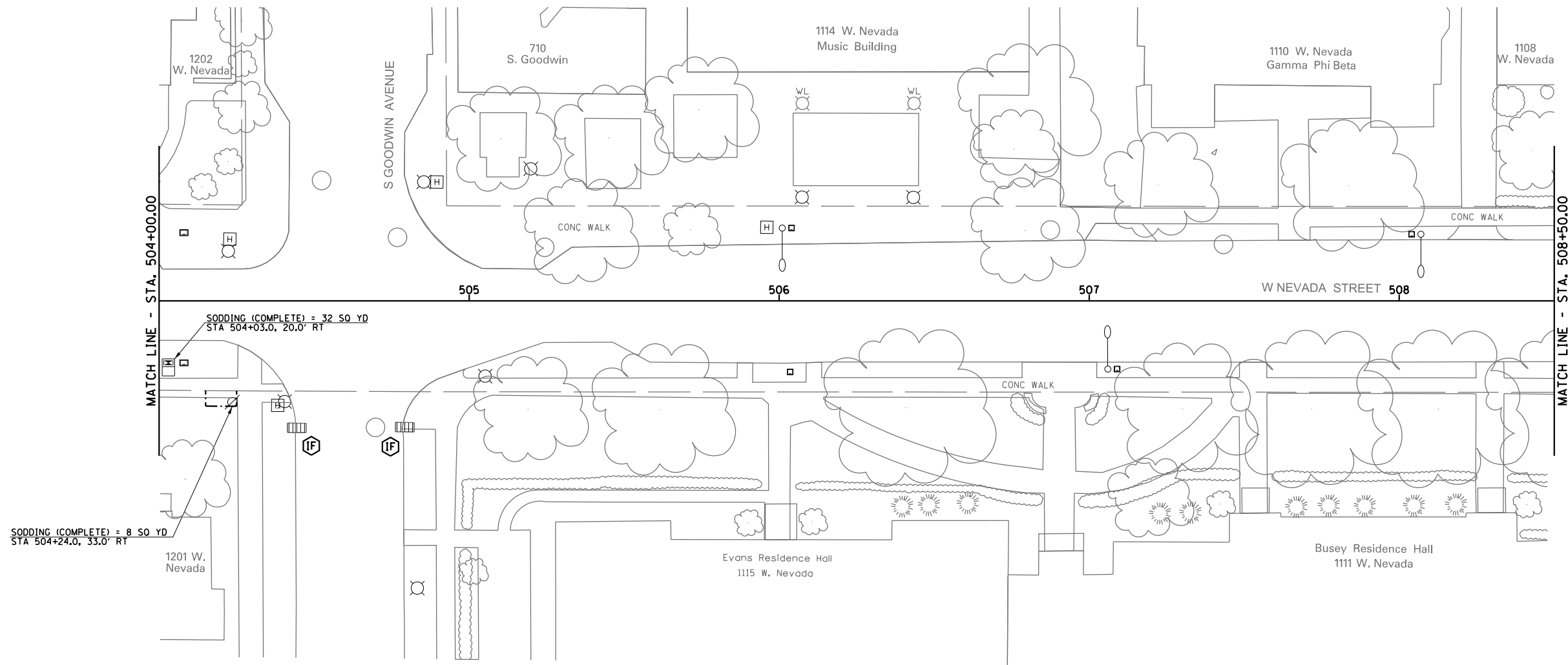
LANDSCAPE PLANS			
SCALE : 1"=20'	SHEET NO. 18 OF 24 SHEETS	STA. 500+00	TO STA. 504+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	18
MATHIEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**LEGEND**

IF INLET FILTER



SODDING (COMPLETE) = 32 SQ YD  
STA 504+03.0, 20.0' RT

SODDING (COMPLETE) = 8 SQ YD  
STA 504+24.0, 33.0' RT

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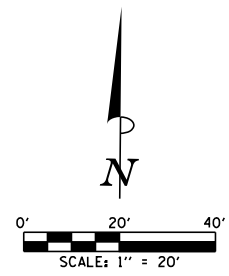
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CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

**LANDSCAPE PLANS**

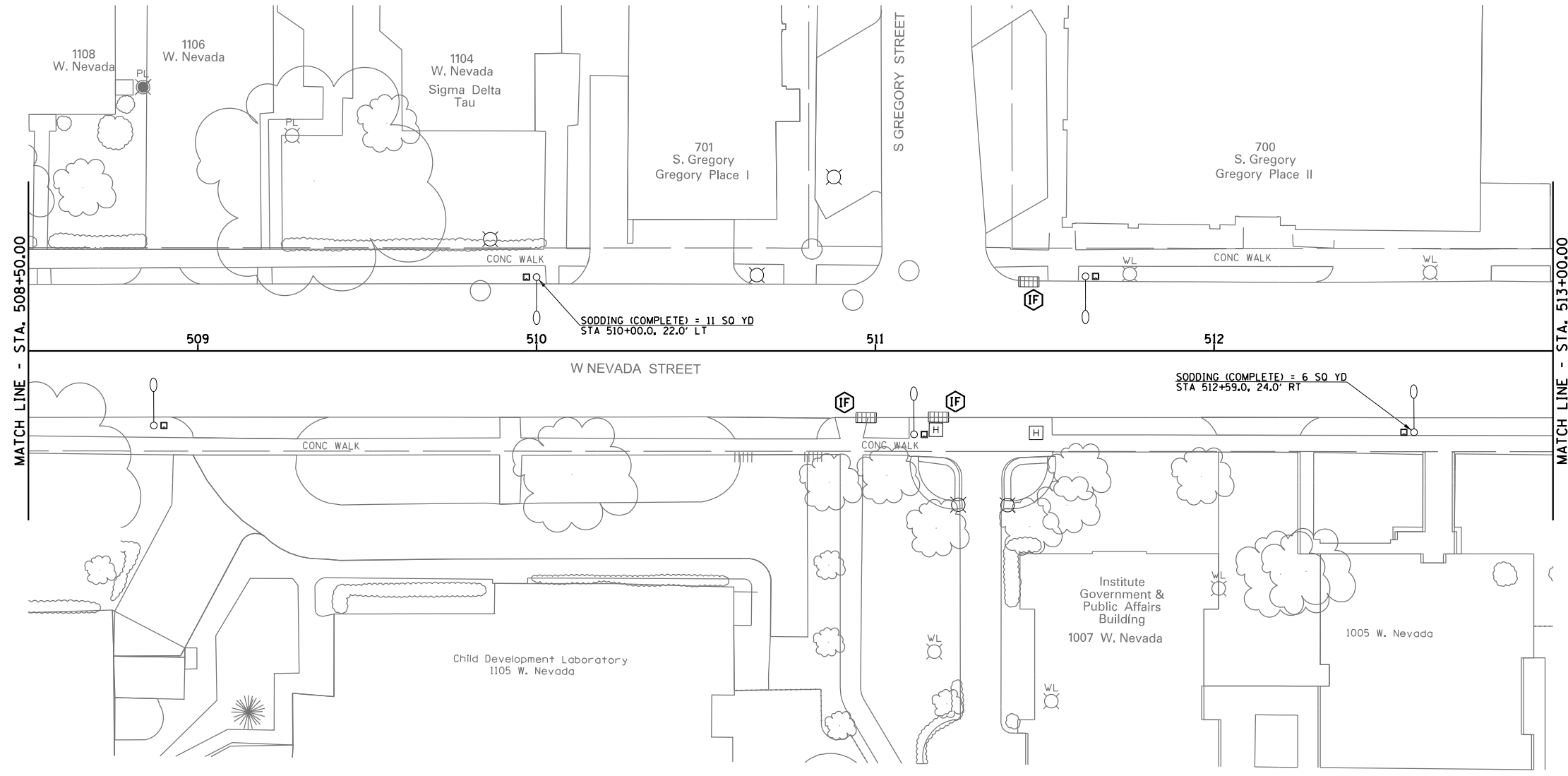
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	19
MATHAWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**LEGEND**

IF INLET FILTER



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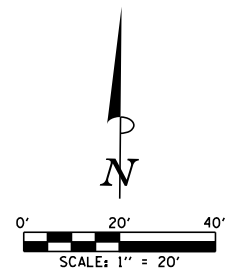
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CITY OF URBANA  
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**LANDSCAPE PLANS**

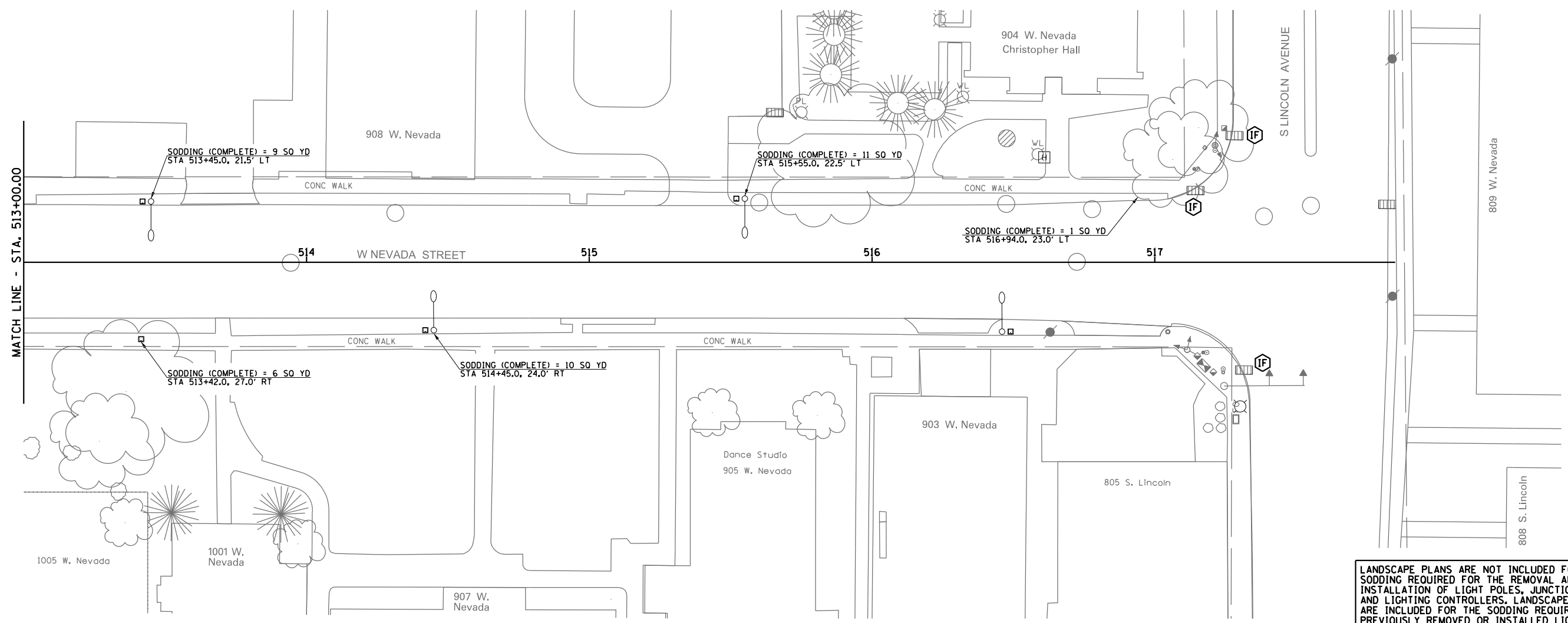
SCALE : 1"=20' SHEET NO. 20 OF 24 SHEETS STA. 508+50 TO STA. 513+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	20
MATHAWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**LEGEND**

IF INLET FILTER

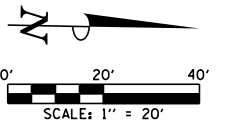


LANDSCAPE PLANS ARE NOT INCLUDED FOR THE SODDING REQUIRED FOR THE REMOVAL AND/OR INSTALLATION OF LIGHT POLES, JUNCTION BOXES, AND LIGHTING CONTROLLERS. LANDSCAPE PLANS ARE INCLUDED FOR THE SODDING REQUIRED AT PREVIOUSLY REMOVED OR INSTALLED LIGHTING EQUIPMENT LOCATIONS.

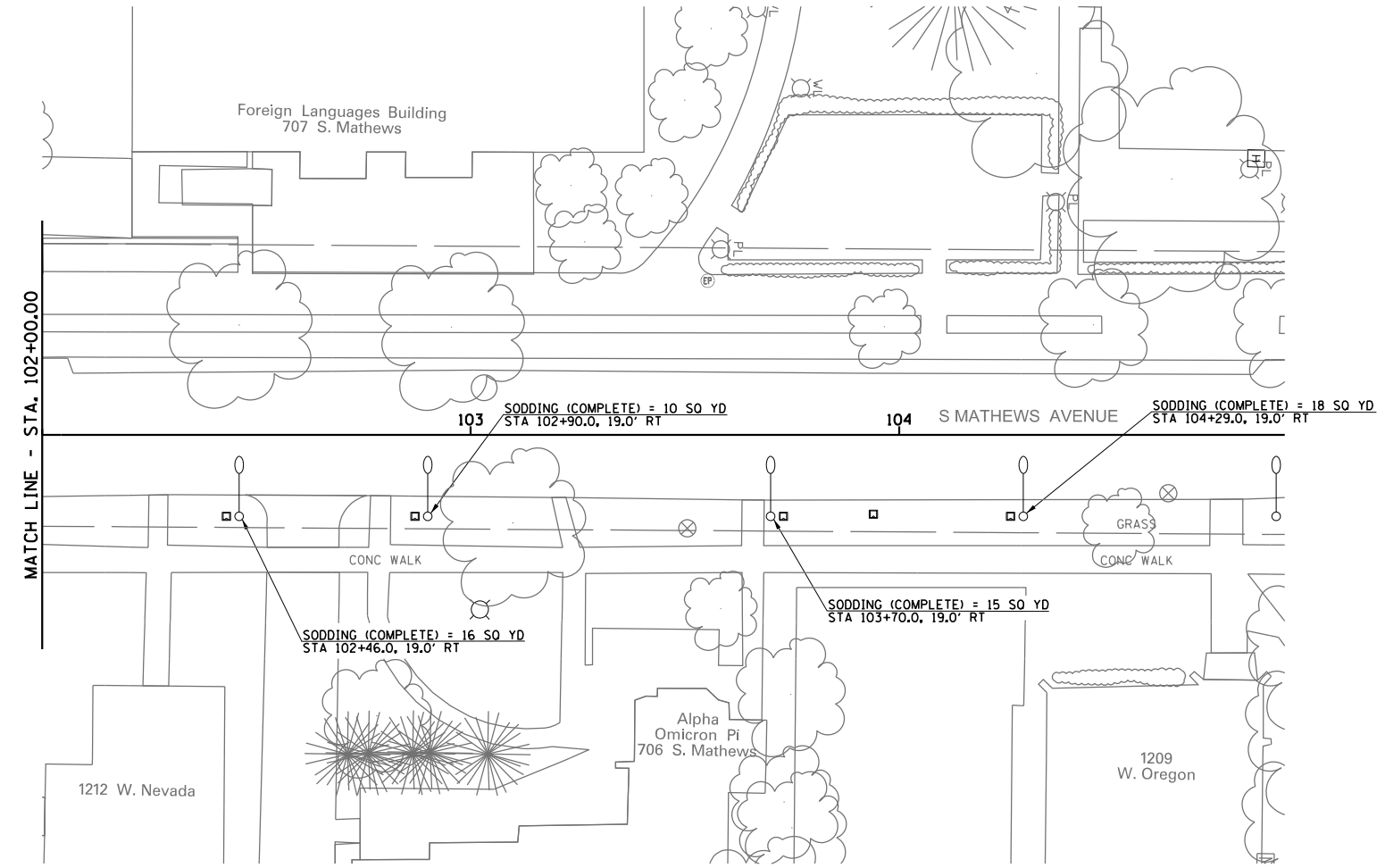
THE QUANTITIES SHOWN FOR SODDING (COMPLETE) ARE APPROXIMATE. THE FINAL SODDING LOCATIONS WILL BE DETERMINED BY THE ENGINEER. REFER TO THE CITY OF URBANA RIGHT-OF-WAY STANDARD DRAWING "SODDING INSTALLATION" FOR ADDITIONAL INFORMATION.

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				SCALE : 1"=20'	SHEET NO. 21 OF 24 SHEETS	STA. 513+00 TO STA. 516+94	MATHAWS AVENUE ROADWAY LIGHTING IMPROVEMENTS			



**LEGEND**  
 IF INLET FILTER



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				SCALE : 1"=20'	SHEET NO. 22 OF 24 SHEETS	STA. 102+00 TO STA. 104+29	MATHEWS AVENUE ROADWAY LIGHTING IMPROVEMENTS		



**QUICK REFERENCE TO TREE PROTECTION ZONE**

**Tree/Shrub Protection (above ground)**

The contractor or permit holder shall be responsible for protecting all public trees and shrubs located on the public right-of-way. Existing trees/shrubs subject to construction activity shall be boxed, fenced or otherwise protected before any work is started. The trees/shrubs to be protected, the method of protection, and the dimensions involved shall follow the guidelines of the City Arborist, or if special conditions warrant adjustment, be determined by the City Arborist in conjunction with the contractor or permit holder. Once assembled, no boxing, fencing or other protection device shall be removed without prior approval of the City Arborist or City Inspector and there shall be no construction activity or material within the enclosure.

Shrubs and small trees shall be boxed or fenced in such a manner as to encompass the entire drip line area of the tree (Figure 1). In no case shall the enclosure be less than 4 feet from the center line of the tree. Medium to large trees shall be boxed or fenced in a manner to encompass as much of the drip line area of the tree as possible as determined by property and right of way boundaries (Figure 2). In no case shall the protective device be closer than 12 feet from the center line of the tree except in those portions bordered by the public sidewalk or curb, in which case the protective device shall be offset 1 foot wherever possible.

Tree Diameter	Distance of fencing from tree trunk *
Up to 4 inches	Min 4 feet
4.1 – 9 inches	Min 6 feet
9.1 – 14 inches	Min 12 feet
14.1 – 19 inches	Min 16 feet
19.1 and greater	Min 20 feet

\*Minimum distances listed are required unless waived by City Arborist. If available space permits greater distances for tree protection a distance of one foot from tree trunk for every one inch in tree diameter is preferred but not required.

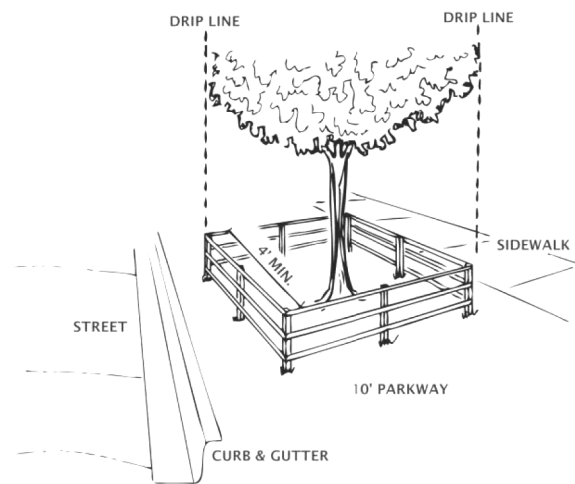


FIGURE 1 - SMALL TREES  
MINIMUM FENCING REQUIREMENTS

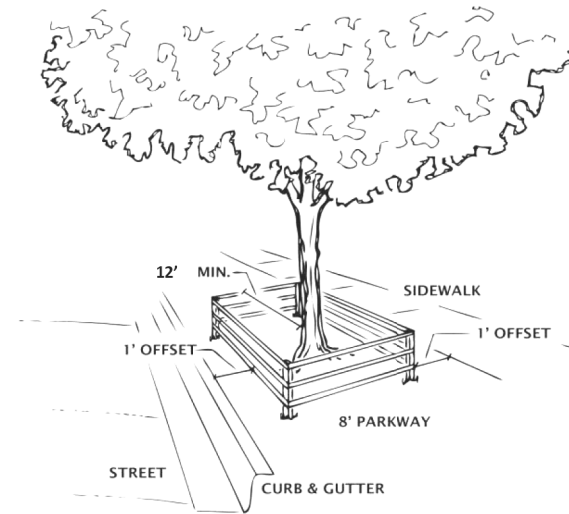


FIGURE 2 - MEDIUM TO LARGE TREES  
MINIMUM FENCING REQUIREMENTS

RIGHT-OF-WAY STANDARD DRAWING  
TREE PROTECTION ZONE  
DETAIL ARB-01

CITY OF URBANA  
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ENGINEERING DIVISION



CITY OF URBANA  
PUBLIC WORKS DEPARTMENT

Utility Installations (underground)

All installations of underground utilities upon the public right-of-way are subject to approval by the City. Any and all installations that impact on public trees due to underground conflicts (roots) are specifically subject to the review and approval of the City Arborist before the project starts.

**Trenching and Tunneling** – Open trenching in the root zone of public trees is prohibited unless it falls outside the drip line of a tree’s canopy (Figure 3). All trees where there is insufficient space to bypass the drip line by trenching must be tunneled. In no case shall the tunnel be less than 2 feet in depth. When the tunneling procedure is required, the distance of the tunnel from the face of the tree is determined by the diameter of the tree 4 1/2 feet above the ground line. Unless specified otherwise by the City Arborist, all dimensions apply as illustrated in Figure 4 with the quick reference table.

Since the cutting of larger roots is unavoidable in a trenching operation, all roots over 2 inches in diameter must be cut cleanly. All trenches should not stay open longer than necessary and must be properly barricaded.

Tree Diameter (a) (at 4 1/2 feet above ground)	Distance of trenching from tree trunk (b)	Recommended depth of tunnel or trench (c)
Up to 4 inches	Min 4 feet	24 inches
4.1 – 9 inches	Min 6 feet	30 inches
9.1 – 14 inches	Min 12 feet	30 inches
14.1 – 19 inches	Min 16 feet	36 inches
19.1 and greater	Min 20 feet	36 inches

\*Minimum distances listed are required unless waived by City Arborist. If available space permits greater distances for tree protection, such as to drip line, are preferred but not required.

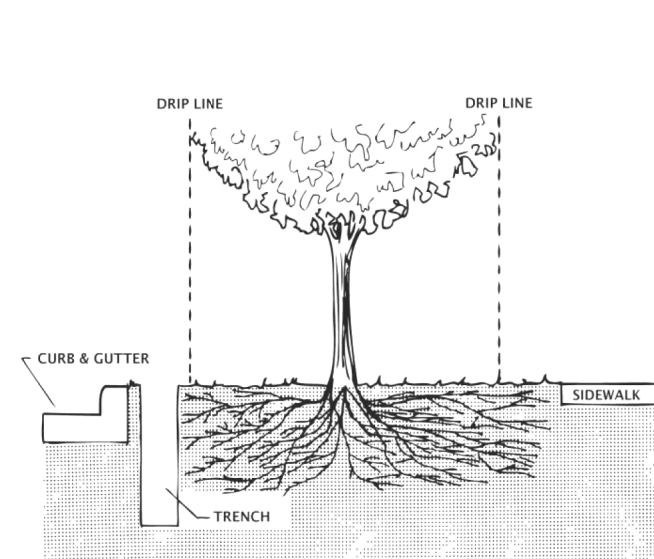


FIGURE 3 - SMALL TREES  
TRENCHING REQUIREMENTS

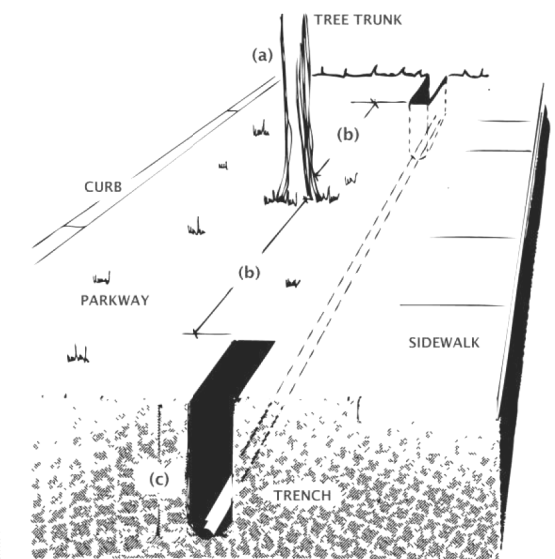


FIGURE 4 - MEDIUM TO LARGE TREES  
TRENCHING AND TUNNELING REQUIREMENTS

RIGHT-OF-WAY STANDARD DRAWING  
TREE PROTECTION ZONE  
DETAIL ARB-02

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ENGINEERING DIVISION



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ENGINEERING DIVISION

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PUBLIC WORKS DEPARTMENT

CITY OF URBANA  
RIGHT-OF-WAY STANDARD DRAWINGS

SCALE : NONE SHEET NO. 23 OF 24 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21-00633-00-LT	CHAMPAIGN	24	23
MATHews AVENUE ROADWAY LIGHTING IMPROVEMENTS			

**Augering** - Tree root zones shall be protected by augering in the manner described below. Tree diameter is measured 4 1/2 feet above the ground. The minimum depth of auger within the tree protection zone, as defined above, shall be 24 inches below the soil surface. No trenching within the protection zone of the tree shall be permitted.

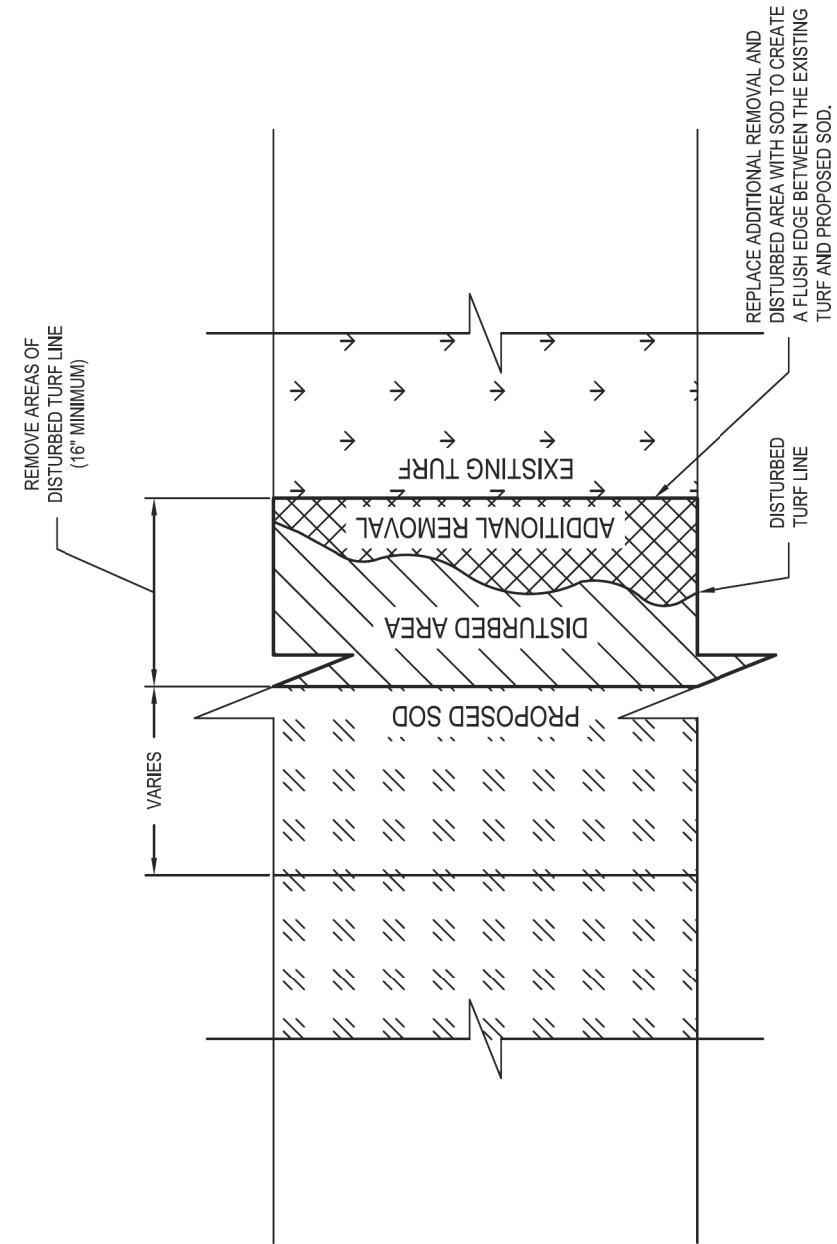
Tree Diameter	Augering Instructions
Up to 4 inches	Auger 4 feet from the face of tree in all directions if trench will be located within or intersect this radius.
4.1 – 9 inches	Auger 6 feet from the face of tree in all directions if trench will be located within or intersect this radius.
9.1 – 14 inches	Auger 12 feet from the face of tree in all directions if trench will be located within or intersect this radius.
14.1 – 19 inches	Auger 16 feet from the face of tree in all directions if trench will be located within or intersect this radius.
19.1 or greater	Auger 20 feet from the face of tree in all directions if trench will be located within or intersect this radius.

CITY OF URBANA  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION



RIGHT-OF-WAY STANDARD DRAWING  
TREE PROTECTION ZONE  
DETAIL ARB-03

DATE: 01/01/2021  
DRAWN BY: BEH  
REVISED: JANUARY 2021



SODDING DETAIL


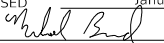
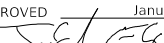
CITY OF URBANA  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION



RIGHT-OF-WAY STANDARD DRAWING  
SODDING INSTALLATION  
DETAIL LAN-01

DATE: 01/01/2022  
DRAWN BY: CTH  
REVISED: JUNE 2021

ABV	ABOVE	CU YD	CUBIC YARD	HATCH	HATCHING	PM	PAVEMENT MARKING	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HD	HEAD	PED	PEDESTAL	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDW	HEADWALL	PNT	POINT	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HMA	HOT MIX ASPHALT	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HWY	HIGHWAY	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HORIZ	HORIZONTAL	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	HSE	HOUSE	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IL	ILLINOIS	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IMP	IMPROVEMENT	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	IN DIA	INCH DIAMETER	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INL	INLET	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	INST	INSTALLATION	PE	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	IDS	INTERSECTION DESIGN STUDY	PROF	PROFILE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	INV	INVERT	PGL	PROFILE GRADELINE	TEL	TELEPHONE
B	BARN	EA	EACH	IP	IRON PIPE	PROJ	PROJECT	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	IR	IRON ROD	P.C.	PROPERTY CORNER	TP	TELEPHONE POLE
BL	BASELINE	EOP	EDGE OF PAVEMENT	JT	JOINT	PL	PROPERTY LINE	TEMP	TEMPORARY
BGN	BEGIN	E-CL	EDGE TO CENTERLINE	kg	KILOGRAM	PR	PROPOSED	TBM	TEMPORARY BENCH MARK
BM	BENCHMARK	E-E	EDGE TO EDGE	km	KILOMETER	R	RADIUS or RESIDENTIAL	TD	TILE DRAIN
BIND	BINDER	ELEC	ELECTRICAL	LS	LANDSCAPING	RR	RAILROAD	TBE	TO BE EXTENDED
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RRS	RAILROAD SPIKE	TBR	TO BE REMOVED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	RPS	REFERENCE POINT STAKE	TBS	TO BE SAVED
BLVD	BOULEVARD	EXC	EXCAVATION	LIDAR	LIGHT DETECTION AND RANGING	REF	REFLECTIVE	TWP	TOWNSHIP
BRK	BRICK	EX	EXISTING	LP	LIGHT POLE	RCCP	REINFORCED CONCRETE CULVERT PIPE	TR	TOWNSHIP ROAD
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LGT	LIGHTING	REINF	REINFORCEMENT	TS	TRAFFIC SIGNAL
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	LF	LINEAL FEET OR LINEAR FEET	REM	REMOVAL	TSCB	TRAFFIC SIGNAL CONTROL BOX
CATV	CABLE	E	OFFSET DISTANCE TO VERTICAL CURVE	L	LITER OR CURVE LENGTH	RC	REMOVE CROWN	TSC	TRAFFIC SYSTEMS CENTER
CIP	CAST IRON PIPE	F-F	FACE TO FACE	LC	LONG CHORD	REP	REPLACEMENT	TRVS	TRANSVERSE
CB	CATCH BASIN	FA	FEDERAL AID	LNG	LONGITUDINAL	REST	RESTAURANT	TRVL	TRAVEL
C-C	CENTER TO CENTER	FAI	FEDERAL AID INTERSTATE	L SUM	LUMP SUM	RESURF	RESURFACING	TRN	TURN
CL	CENTERLINE OR CLEARANCE	FAP	FEDERAL AID PRIMARY	MACH	MACHINE	RET	RETAINING	TY	TYPE
CL-E	CENTERLINE TO EDGE	FAS	FEDERAL AID SECONDARY	MB	MAIL BOX	RT	RIGHT	T-A	TYPE A
CL-F	CENTERLINE TO FACE	FAUS	FEDERAL AID URBAN SECONDARY	MH	MANHOLE	ROW	RIGHT-OF-WAY	TYP	TYPICAL
CTS	CENTERS	FP	FENCE POST	MATL	MATERIAL	RD	ROAD	UNDGND	UNDERGROUND
CERT	CERTIFIED	OPT	FIBER OPTIC	MED	MEDIAN	RDWY	ROADWAY	USGS	U.S. GEOLOGICAL SURVEY
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	RTE	ROUTE	USEL	UPSTREAM ELEVATION
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	SAN	SANITARY	USFL	UPSTREAM FLOWLINE
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SANS	SANITARY SEWER	UTIL	UTILITY
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SEC	SECTION	VBOX	VALVE BOX
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SEED	SEEDING	VV	VALVE VAULT
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	SHAP	SHAPING	VL	VAULT
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	S	SHED	VEH	VEHICLE
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	SH	SHEET	VP	VENT PIPE
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SHLD	SHOULDER	VERT	VERTICAL
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SW	SIDEWALK OR SOUTHWEST	VC	VERTICAL CURVE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SIG	SIGNAL	VPC	VERTICAL POINT OF CURVATURE
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SOD	SODDING	VPI	VERTICAL POINT OF INTERSECTION
CONT	CONTINUOUS	GV	GAS VALVE	NC	NORMAL CROWN	SM	SOLID MEDIUM	VPT	VERTICAL POINT OF TANGENCY
COR	CORNER	GIS	GEOGRAPHICAL INFORMATION SYSTEM	NB	NORTHBOUND	SB	SOUTHBOUND	WM	WATER METER
CORR	CORRUGATED	GRAN	GRANULAR	NE	NORTHEAST	SE	SOUTHEAST	VV	WATER VALVE
CMP	CORRUGATED METAL PIPE	GR	GRATE	NW	NORTHWEST	SPL	SPECIAL	WMAIN	WATER MAIN
CNTY	COUNTY	GRVL	GRAVEL	O/S	OFFSET	SD	SPECIAL DITCH	WB	WESTBOUND
CH	COUNTY HIGHWAY	GND	GROUND	O&C	OIL AND CHIP	SQ FT	SQUARE FEET	WILDFL	WILDFLOWERS
CSE	COURSE	GUT	GUTTER	OLID	OPEN LID	m <sup>2</sup>	SQUARE METER	W	WITH
XSECT	CROSS SECTION	GP	GUY POLE	PAT	PATTERN	mm <sup>2</sup>	SQUARE MILLIMETER	WO	WITHOUT
m <sup>3</sup>	CUBIC METER	GW	GUY WIRE	PVD	PAVED	SQ YD	SQUARE YARD		
mm <sup>3</sup>	CUBIC MILLIMETER	HH	HANDHOLE	PVMT	PAVEMENT	STB	STABILIZED		

 Illinois Department of Transportation	
PASSED <u>January 1, 2021</u>  ENGINEER OF POLICY AND PROCEDURES	ISSUED 1-1-97
APPROVED <u>January 1, 2021</u>  ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations and symbols.
1-1-19	Added new symbols.

## STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS


(Sheet 1 of 9)

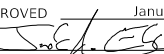
**STANDARD 000001-08**

<u>ADJUSTMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>ALIGNMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>DRAINAGE ITEMS</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted			ADJ	Baseline	_____	_____		Channel or Stream Line	-----	-----	
Structure To Be Cleaned			C	Centerline	-----	-----		Culvert Line	-----	-----	
Main Structure To Be Filled			FM	Centerline Break Circle	○	⊙		Grading & Shaping Ditches	-----	-----	
Structure To Be Filled			F	Baseline Symbol	⊥	⊥		Drainage Boundary Line	////	////	
Structure To Be Filled Special			FSP	Centerline Symbol		⊥		Paved Ditch	-----	-----	
Structure To Be Removed			R	PI Indicator	△	△		Aggregate Ditch	-----	-----	
Structure To Be Reconstructed			REC	Point Indicator	○	○		Pipe Underdrain	-----	-----	
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=		Storm Sewer	-----	-----	
Frame and Grate To Be Adjusted			A	<u>BOUNDARIES ITEMS</u>		<u>EX</u>	<u>PR</u>	Flowline	⊥	⊥	
Frame and Lid To Be Adjusted			A	Dashed Property Line	-----	-----		Ditch Check	◆	◆	
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line	_____	_____		Headwall	-	∩	
Valve Vault To Be Adjusted			A	Section/Grant Line	-----	-----		Inlet	□	■	
Special Adjustment			SP	Quarter Section Line	-----	-----		Manhole	⊙	⊙	
Item To Be Abandoned			AB	Quarter/Quarter Section Line	-----	-----		Summit	↔	↔	
Item To Be Moved			M	County/Township Line	-----	-----		Roadway Ditch Flow	~→	~→	
Item To Be Relocated			REL	State Line	-----	-----		Swale	→	→	
Pavement Removal and Replacement				Chiseled Square Found	□	□		Catch Basin	○	●	
				Iron Pipe Found	○	●		Culvert End Section	◁	◁	
				Iron Pipe Set	●	●		Water Surface Indicator	▽	▽	
				Survey Marker	⊙	⊙		Riprap	▒	▒	
				Property Line Symbol	⊥	⊥		<u>HYDRAULICS ITEMS</u>		<u>EX</u>	<u>PR</u>
				Same Ownership Symbol (Half Size)	↗	↗		Overflow	↘	↘	
				Northwest Quarter Corner (Half Size)	⊙	⊙		Sheet Flow	→	→	
				Section Corner (Half Size)	⊙	⊙		Hydrant Outlet	→	→	
				Southeast Quarter Corner (Half Size)	⊙	⊙					

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 2 of 9)  
**STANDARD 000001-08**

Illinois Department of Transportation

PASSED January 1, 2021  
  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

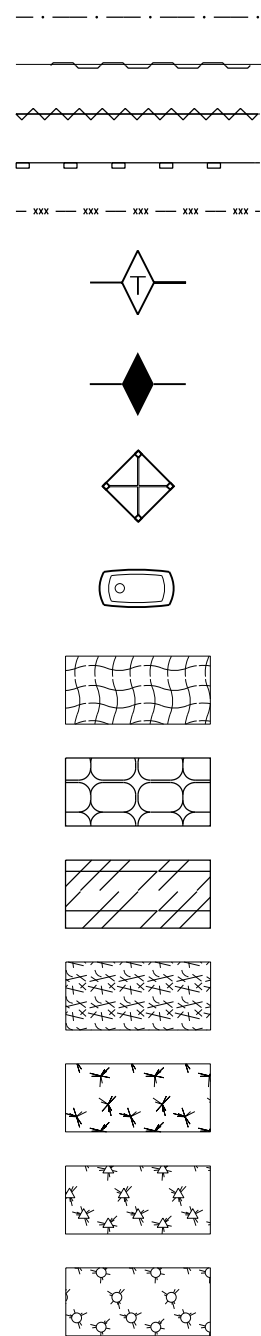
ISSUED 1-1-97

**EROSION & SEDIMENT CONTROL ITEMS**

**EX**

**PR**

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

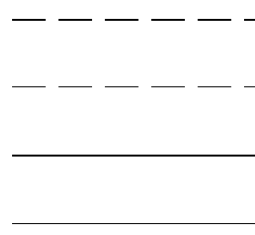


**CONTOUR ITEMS**

**EX**

**PR**

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

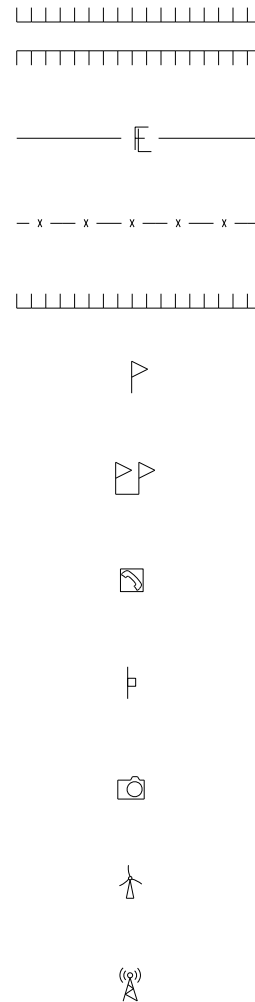


**NON-HIGHWAY IMPROVEMENT ITEMS**

**EX**

**PR**

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- ITS\* Camera
- Wind Turbine
- Cellular Tower



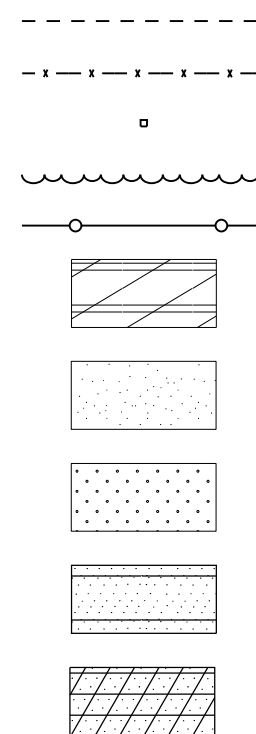
\*Intelligent Transportation Systems

**LANDSCAPING ITEMS**

**EX**

**PR**

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

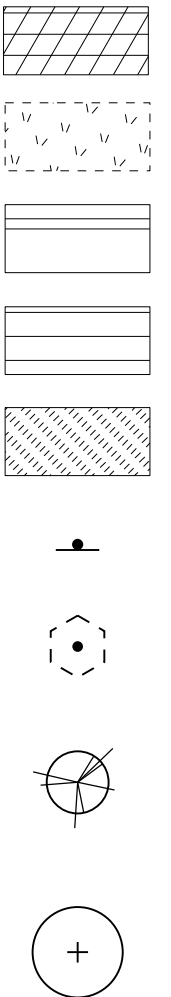


**EXISTING LANDSCAPING ITEMS (contd.)**

**EX**

**PR**

- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding
- Mowstake w/Sign
- Tree Trunk Protection
- Evergreen Tree
- Shade Tree

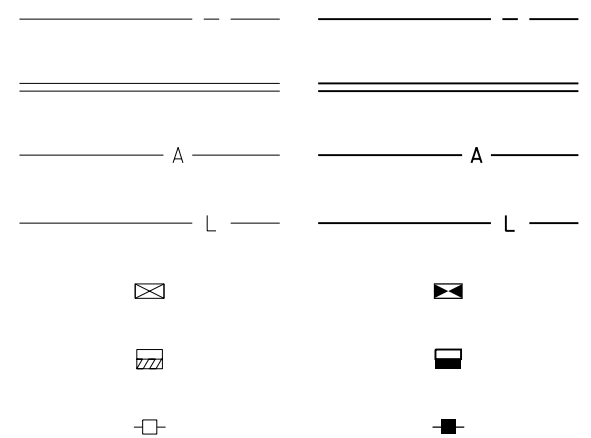


**LIGHTING**

**EX**

**PR**

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



**STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS**

(Sheet 3 of 9)

**STANDARD 000001-08**

Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*Joe E. Cole*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**LIGHTING  
(contd.)**

**EX**

**PR**

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



Traffic Flow Arrow



High Mast Pole  
(Half Size)



Light Unit-1

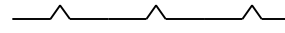


**PAVEMENT (MISC.)**

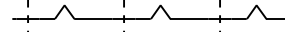
**EX**

**PR**

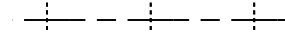
Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



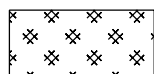
Bituminous Shoulder



Bituminous Taper



Stabilized Driveway



Widening



**PAVEMENT MARKINGS**

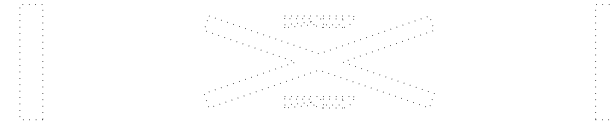
**EX**

**PR**

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



Raised Marker Amber 2 Way



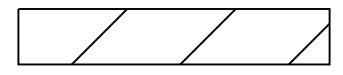
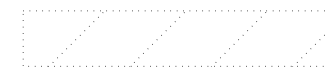
Raised Marker Crystal 1 Way



Two Way Turn Left



Shoulder Diag. Pattern



Skip-Dash White



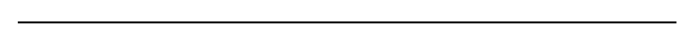
Skip-Dash Yellow



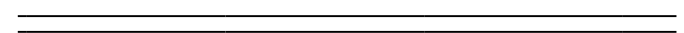
Stop Line



Solid Line



Double Centerline



Dotted Lines



Illinois Department of Transportation

PASSED January 1, 2021  
  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 4 of 9)

**STANDARD 000001-08**



**PAVEMENT MARKINGS**  
**(contd.)**

CL 2Ln 2Way  
RRPM 12.2 m (40') o.c.

CL 2Ln 2Way  
RRPM 80' (24.4 m) o.c.

CL Multilane Div.  
RRPM 40' (12.2 m) o.c.

CL Multilane Div.  
RRPM 80' (24.4 m) o.c.

CL Multilane Div. Dbl.  
RRPM 80' (24.4 m) o.c.

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

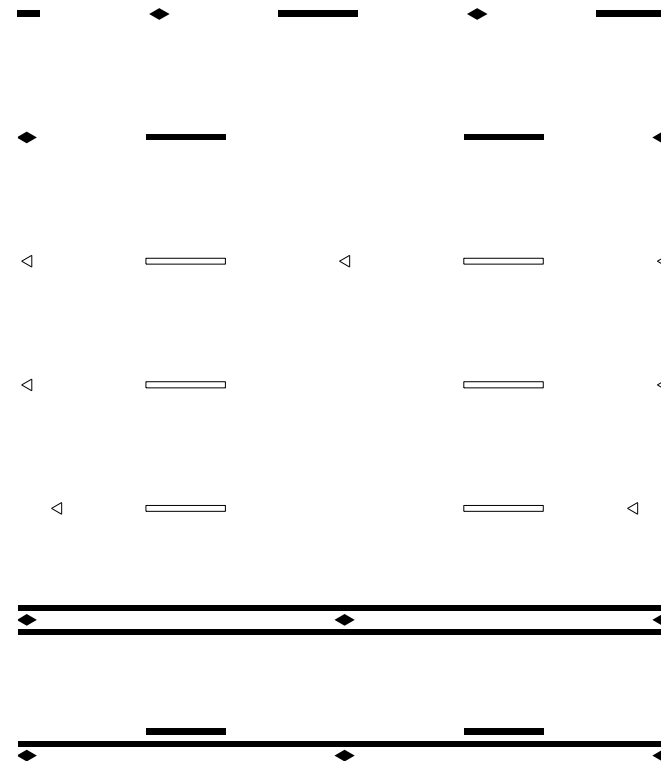
Urban Left Turn Only

Urban Right Turn Only

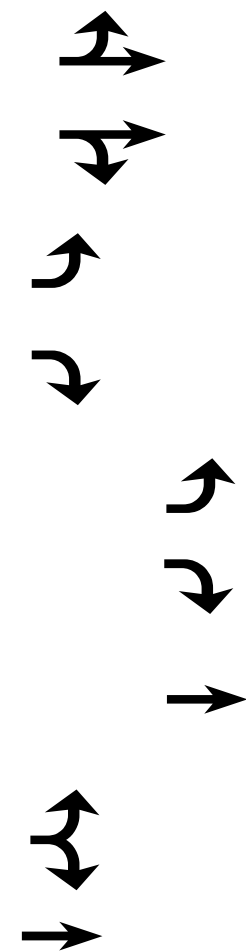
Urban Thru Only

**EX**

**PR**



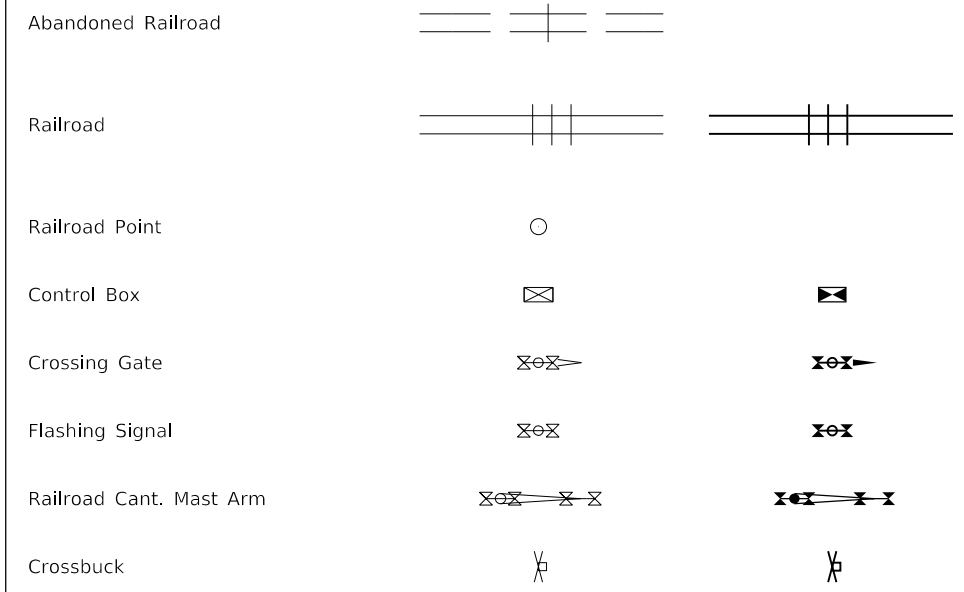
ONLY  
ONLY  
ONLY



**RAILROAD ITEMS**

**EX**

**PR**



**REMOVAL ITEMS**

**EX**

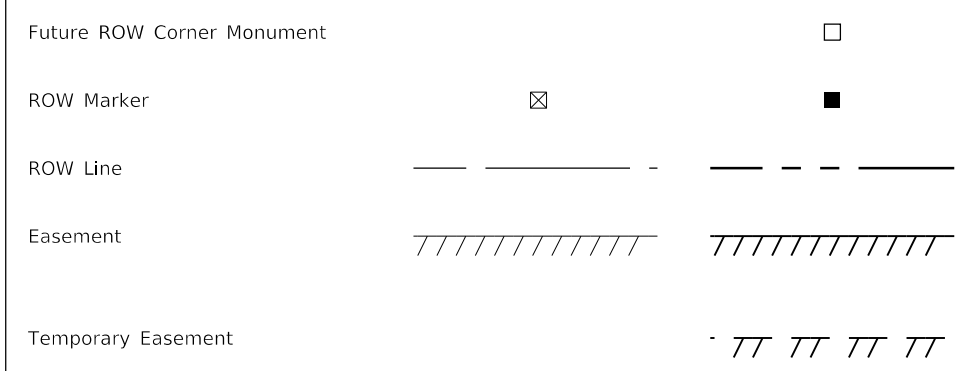
**PR**



**RIGHT OF WAY ITEMS**

**EX**

**PR**



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 5 of 9)

**STANDARD 000001-08**

Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*Scott C. Clark*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

Urban LT & RT Turn Arrow

Urban Thru Arrow

**PAVEMENT MARKINGS**  
**(contd.)**

**EX**

**PR**

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



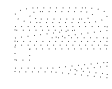
Rural Left Turn Arrow



Rural Right Turn Arrow



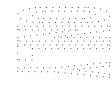
Rural Left Turn Only



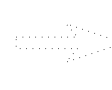
**ONLY ONLY ONLY**



Rural Right Turn Only



Rural Thru Only



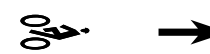
Rural Thru Arrow



Rural Lt & Rt Turn Arrow



Bike Lane Symbol



Bike Lane Text



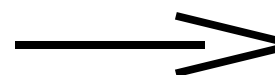
Bike Path Shared



Bike Shared Roadway



Lane Drop Symbol



Wrong Way Arrow

Illinois Department of Transportation  
 PASSED January 1, 2021  
  
 ENGINEER OF POLICY AND PROCEDURES  
 APPROVED January 1, 2021  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STANDARD SYMBOLS,  
 ABBREVIATIONS  
 AND PATTERNS**  
(Sheet 6 of 9)  
**STANDARD 000001-08**

**RIGHT OF WAY ITEMS**  
**(contd.)**

	<b>EX</b>	<b>PR</b>
Access Control Line	—	— AC —
Access Control Line & ROW	— AC —	— AC —
Access Control Line & ROW with Fence	— x — AC —	— x — AC — x —
Excess ROW Line		— XS —

**ROADWAY PLAN**  
**ITEMS**

	<b>EX</b>	<b>PR</b>
Cable Barrier		
Concrete Barrier		
Edge of Pavement	---	---
Bit Shoulders, Medians and C&G Line	---	---
Aggregate Shoulder	---	---
Sidewalks, Driveways	---	---
Guardrail		
Guardrail Post	□	
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		STA. 45+00
Slope Limit Line	---	
Typical Cross-Section Line	---	---

**ROADWAY PROFILES**

	<b>EX</b>	<b>PR</b>
P.I. Indicator	△	△
Point Indicator	○	○
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side	-----	-----
Ditch Profile Right Side	-----	-----
Roadway Profile Line	-----	-----
Storm Sewer Profile Left Side	-----	-----
Storm Sewer Profile Right Side	-----	-----

**SIGNING ITEMS**

	<b>EX</b>	<b>PR</b>
Cone, Drum or Barricade		○
Barricade Type II		
Barricade Type III		TT
Barricade With Edge Line		
Flashing Light Sign		○
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

**SIGNING ITEMS**  
**(contd.)**

	<b>EX</b>	<b>PR</b>
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

Illinois Department of Transportation

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*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*Joe E. Cole*  
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**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 7 of 9)

**STANDARD 000001-08**

**SIGNING ITEMS  
(contd.)**

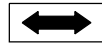
**EX**

**PR**

One Way Arrow Lrg. W1-6-(O)  
(Half Size)



Two Way Arrow Large W1-7-(O)  
(Half Size)



Detour M4-10L-(O)  
(Half Size)



Detour M4-10R-(O)  
(Half Size)



One Way Left R6-1L  
(Half Size)



One Way Right R6-1R  
(Half Size)



Left Turn Lane R3-I100L  
(Half Size)



Keep Left R4-7AL  
(Half Size)



Keep Left R4-7BL  
(Half Size)



Keep Right R4-7AR  
(Half Size)



Keep Right R4-7BR  
(Half Size)



Stop Here On Red R10-6-AL  
(Half Size)



Stop Here On Red R10-6-AR  
(Half Size)



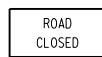
No Left Turn R3-2  
(Half Size)



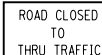
No Right Turn R3-1  
(Half Size)



Road Closed R11-2  
(Half Size)



Road Closed Thru Traffic R11-2  
(Half Size)

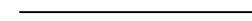


**STRUCTURES ITEMS**

**EX**

**PR**

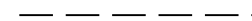
Box Culvert Barrel



Box Culvert Headwall



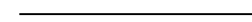
Bridge Pier



Bridge



Retaining Wall



Temporary Sheet Piling



**TRAFFIC SHEET  
ITEMS**

**EX**

**PR**

Cable Number



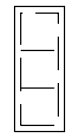
Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols



**TRAFFIC SIGNAL  
ITEMS**

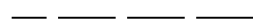
**EX**

**PR**

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**

(Sheet 8 of 9)

**STANDARD 000001-08**

Illinois Department of Transportation

PASSED January 1, 2021  
*Michael Bond*  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021  
*Joe E. Cole*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**TRAFFIC SIGNAL  
ITEMS (contd.)**

	<b>EX</b>	<b>PR</b>
Detector Raceway		
Aluminum Mast Arm		
Steel Mast Arm		
Veh. Detector Magnetic		
Conduit Splice		
Controller		
Gulfbox Junction		
Wood Pole		
Temp. Signal Head		
Handhole		
Double Handhole		
Heavy Duty Handhole		
Junction Box		
Ped. Pushbutton Detector		
Ped. Signal Head		
Power Pole Service		
Priority Veh. Detector		
Signal Head		
Signal Head w/Backplate		
Signal Post		
Closed Circuit TV		
Video Detector System		

**UNDERGROUND  
UTILITY ITEMS**

	<b>EX</b>	<b>PR</b>	<b>ABANDONED</b>
Cable TV			
Electric Cable			
Fiber Optic			
Gas Pipe			
Oil Pipe			
Sanitary Sewer			
Telephone Cable			
Water Pipe			

**UTILITIES ITEMS**

	<b>EX</b>	<b>PR</b>
Controller		
Double Handhole		
Fire Hydrant		
GuyWire or Deadman Anchor		
Handhole		
Heavy Duty Handhole		
Junction Box		
Light Pole		
Manhole		
Monitoring Well (Gasoline)		
Pipeline Warning Sign		
Power Pole		
Power Pole with Light		
Sanitary Sewer Cleanout		
Splice Box Above Ground		
Telephone Splice Box Above Ground		
Telephone Pole		

**UTILITY ITEMS  
(contd.)**

	<b>EX</b>	<b>PR</b>
Traffic Signal		
Traffic Signal Control Box		
Water Meter		
Water Meter Valve Box		
Profile Line		
Aerial Power Line		

**VEGETATION ITEMS**

	<b>EX</b>	<b>PR</b>
Deciduous Tree		
Bush or Shrub		
Evergreen Tree		
Stump		
Orchard/Nursery Line		
Vegetation Line		
Woods & Bush Line		

**WATER FEATURE  
ITEMS**

	<b>EX</b>	<b>PR</b>
Stream or Drainage Ditch		
Waters Edge		
Water Surface Indicator		
Water Point		
Disappearing Ditch		
Marsh		
Marsh/Swamp Boundary		

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PASSED January 1, 2021

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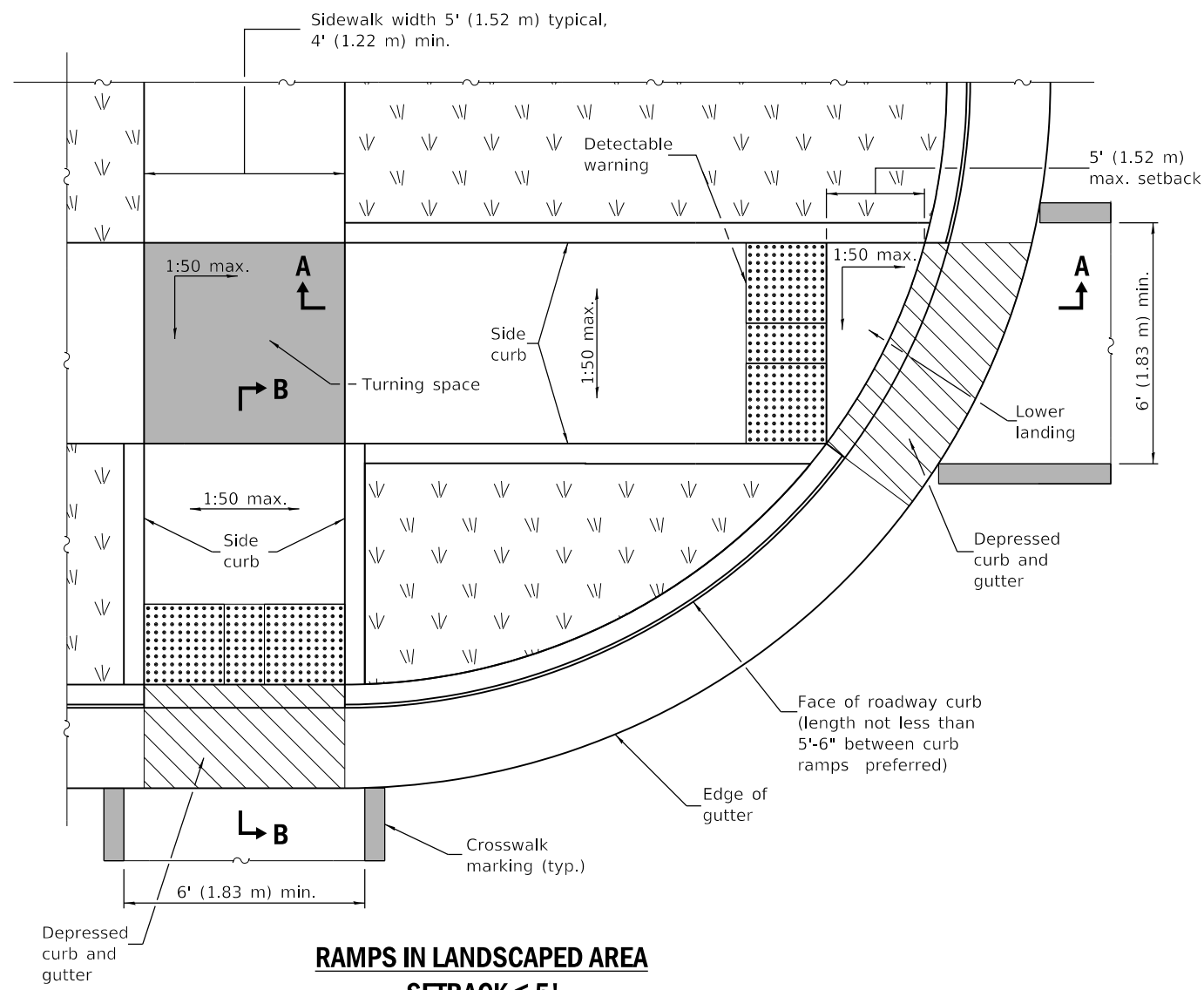
APPROVED January 1, 2021

[Redacted]  
ENGINEER OF DESIGN AND ENVIRONMENT

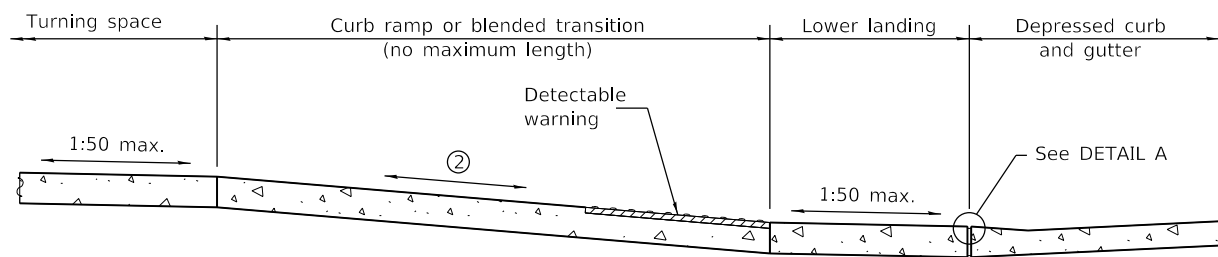
ISSUED 1-1-97

**STANDARD SYMBOLS,  
ABBREVIATIONS  
AND PATTERNS**  
(Sheet 9 of 9)

**STANDARD 000001-08**

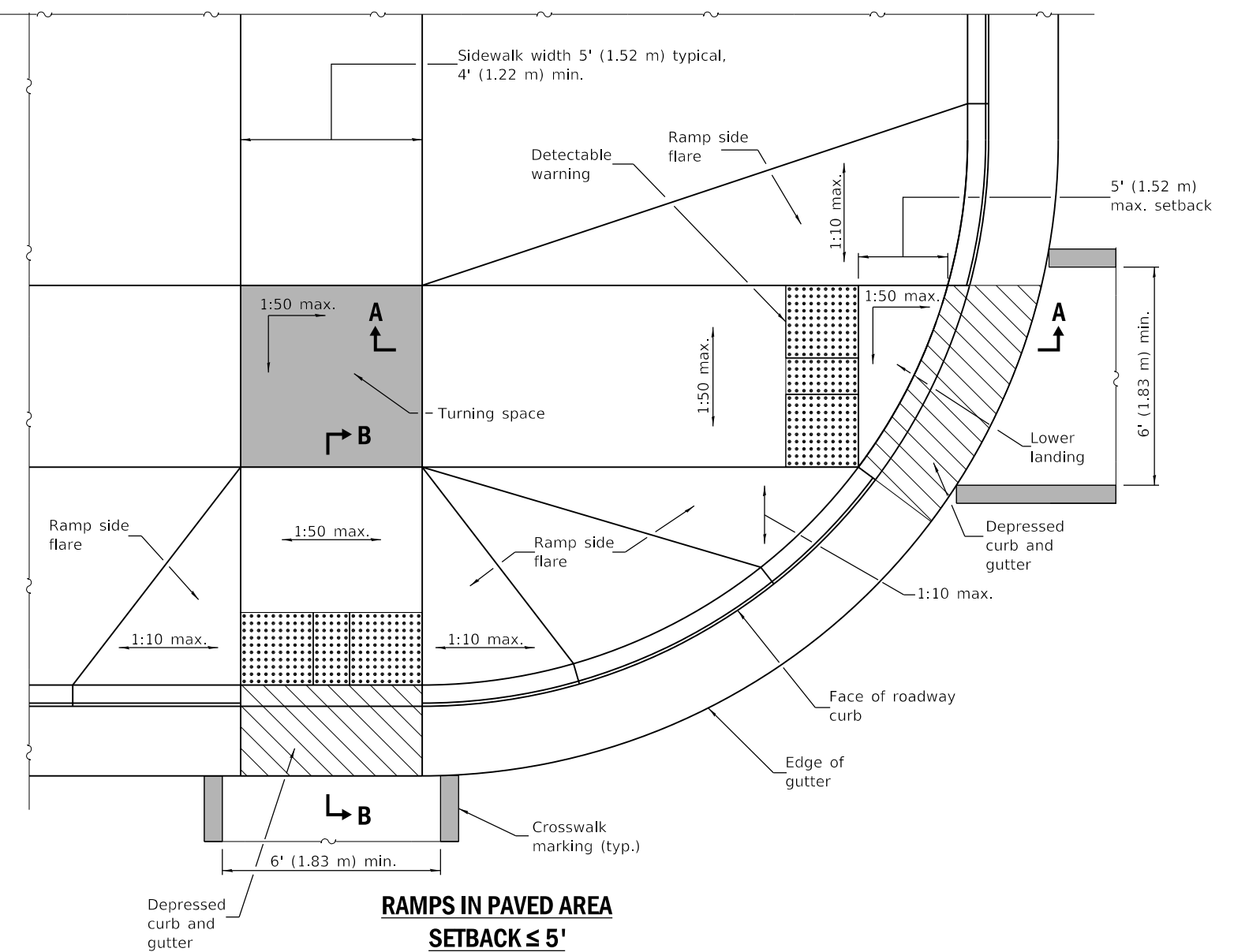


**RAMPS IN LANDSCAPED AREA  
SETBACK ≤ 5'**

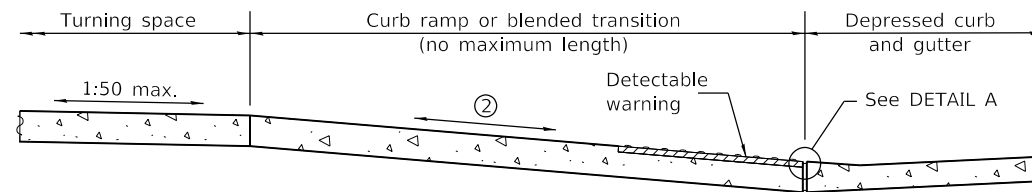


**SECTION A-A**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

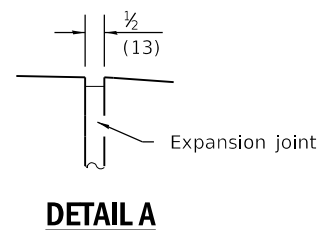


**RAMPS IN PAVED AREA  
SETBACK ≤ 5'**

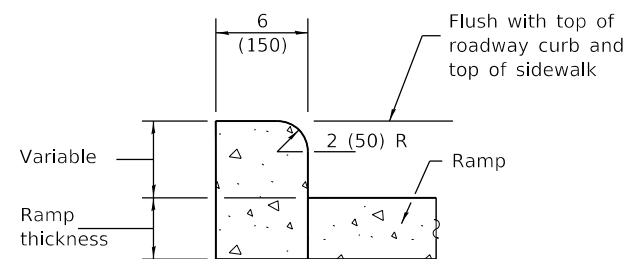


**SECTION B-B**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**DETAIL A**



**SIDE CURB DETAIL**

See Sheet 2 for GENERAL NOTES.

DATE	REVISIONS
1-1-19	Removed "15-foot rule", added "Blended transitions" and placement tolerances for detectable warnings.
1-1-18	Omitted diagonal slope at turning spaces and lower landings.

**PERPENDICULAR CURB RAMPS  
FOR SIDEWALKS**

(Sheet 1 of 2)

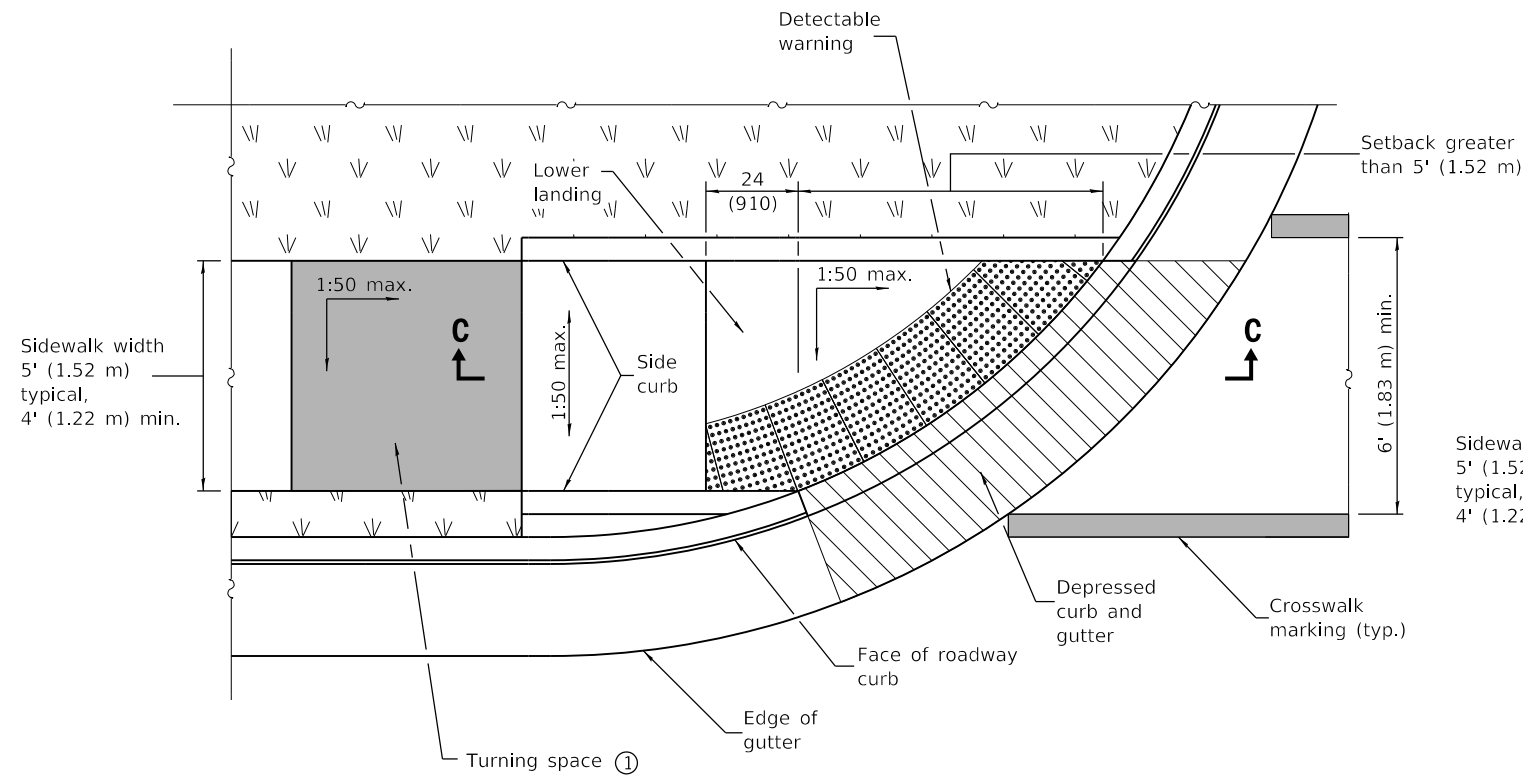
**STANDARD 424001-11**

Illinois Department of Transportation

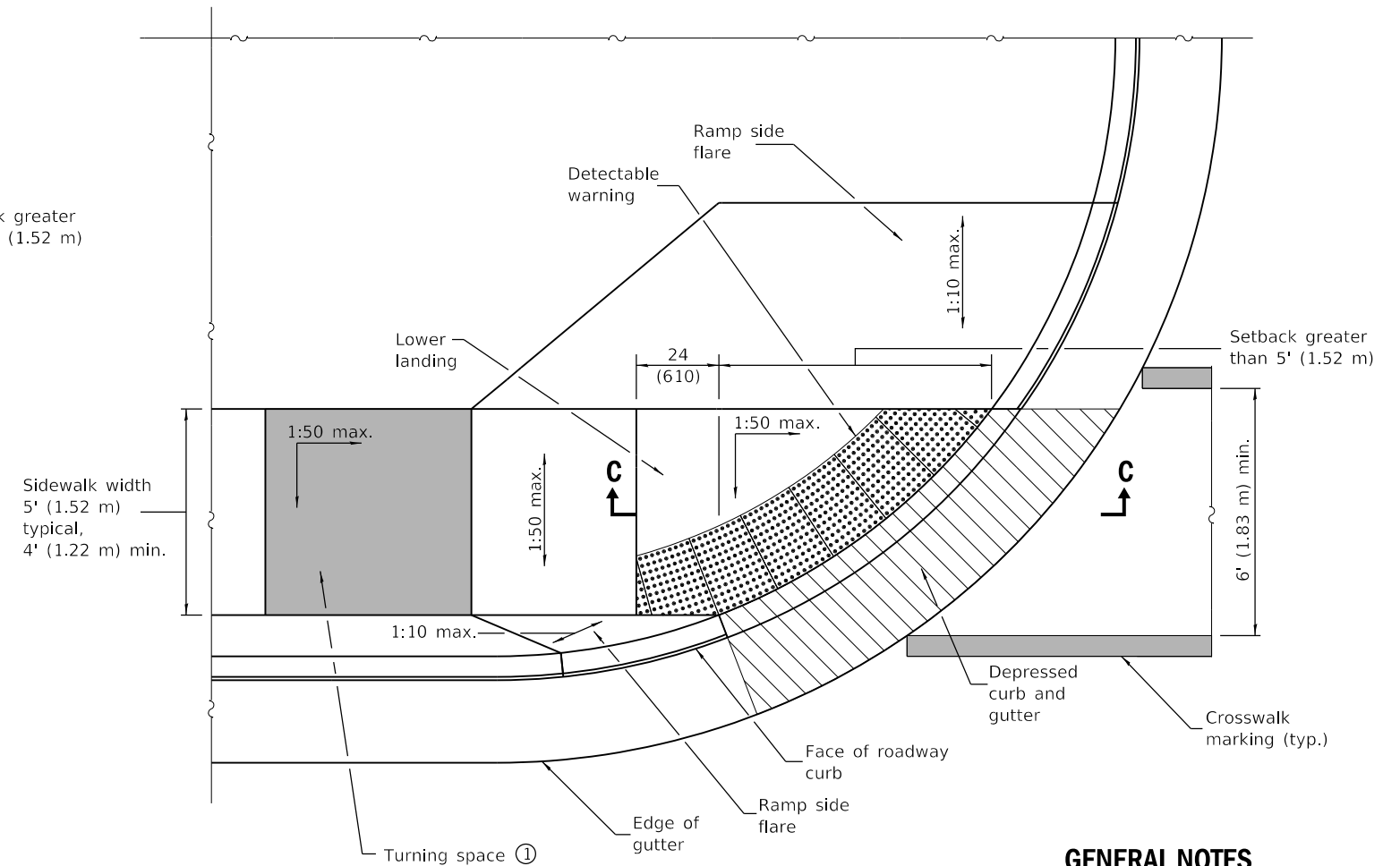
PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*John E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

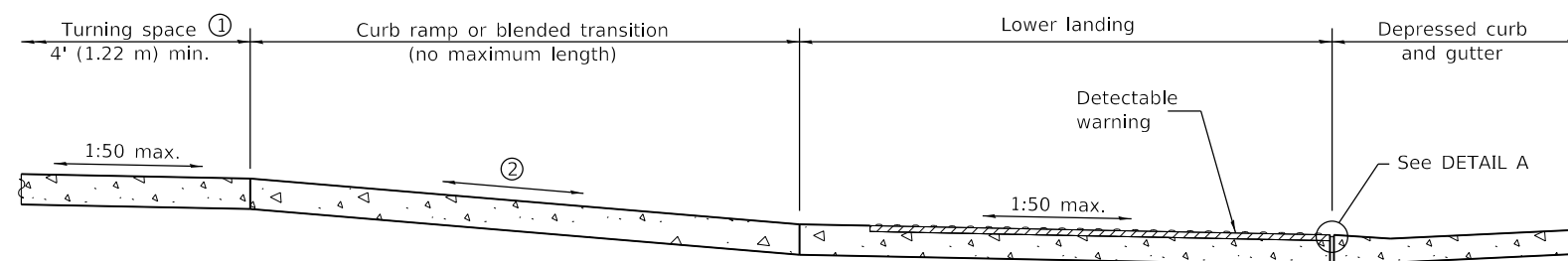
ISSUED 1-1-97



**RAMP IN LANDSCAPED AREA  
SETBACK > 5'**



**RAMP IN PAVED AREA  
SETBACK > 5'**



**SECTION C-C**

- ① This turning space not required for blended transitions.
- ② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

**PERPENDICULAR CURB RAMPS  
FOR SIDEWALKS**

(Sheet 2 of 2)

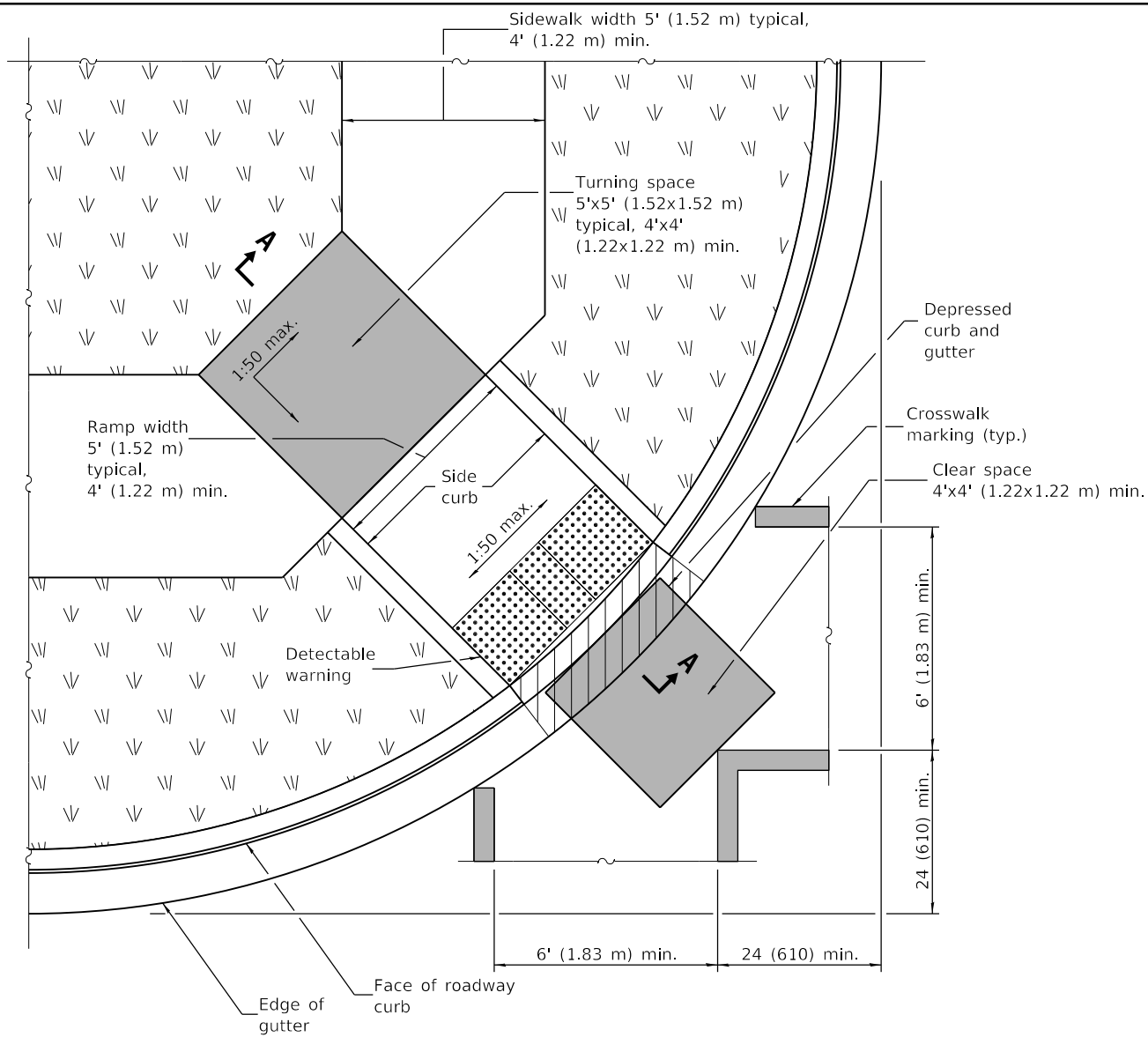
**STANDARD 424001-11**

Illinois Department of Transportation

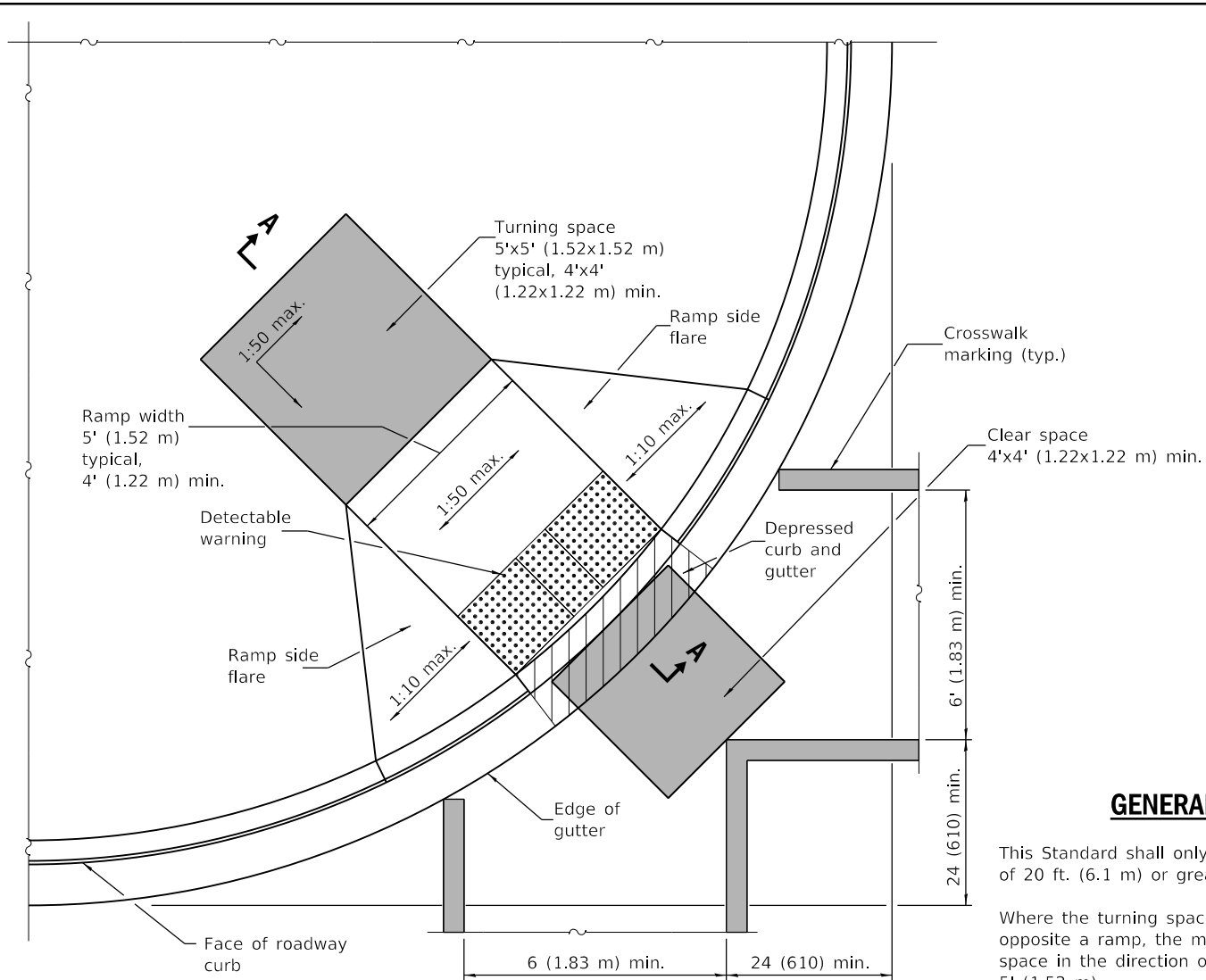
PASSED January 1, 2019  
*Michael Bond*  
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**RAMP IN LANDSCAPED AREA**



**RAMP IN PAVED AREA**

**GENERAL NOTES**

This Standard shall only be used for curb radii of 20 ft. (6.1 m) or greater.

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

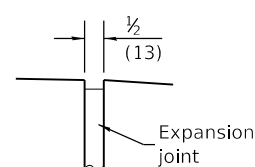
**Side Border** - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

**Curb Set-Back** - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

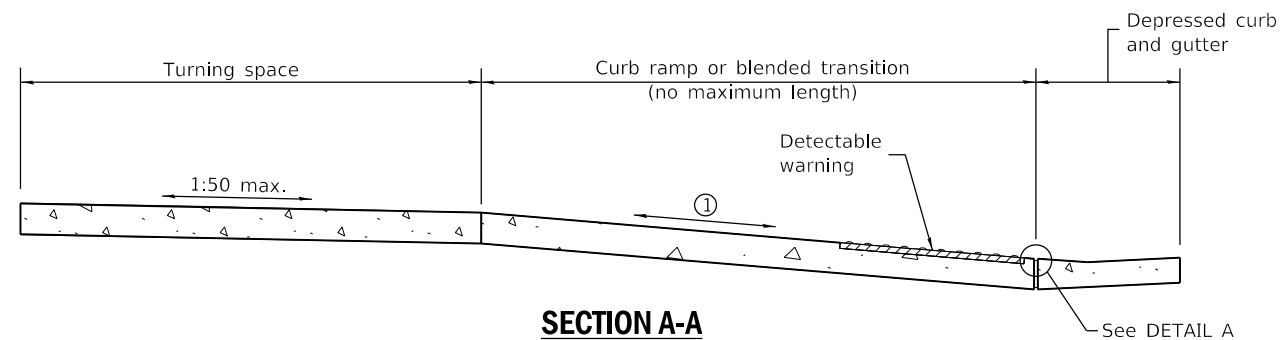
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

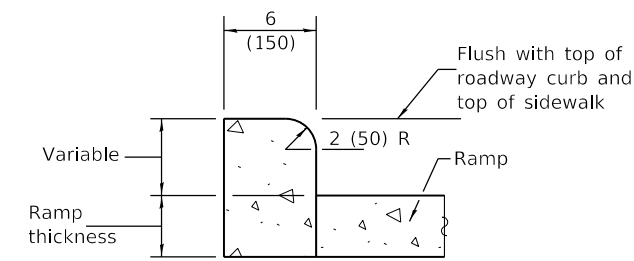


**DETAIL A**



**SECTION A-A**

① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**SIDE CURB DETAIL**

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

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ENGINEER OF DESIGN AND ENVIRONMENT

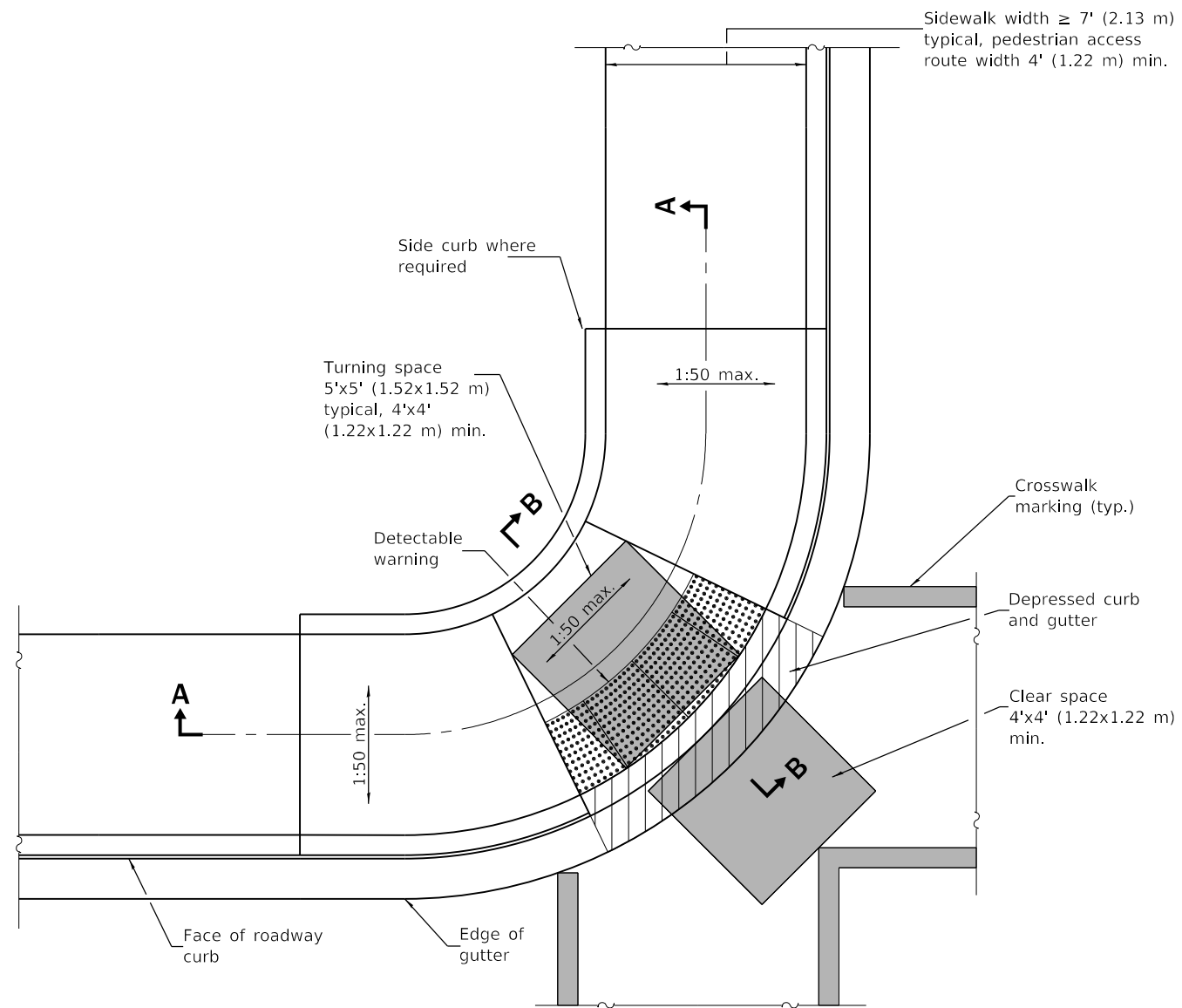
ISSUED 1-1-12

DATE	REVISIONS
1-1-21	Clarified minimum crosswalk width and locations.
1-1-19	Removed "15-foot rule", added "blended transitions" and placement tolerances for detectable warnings.

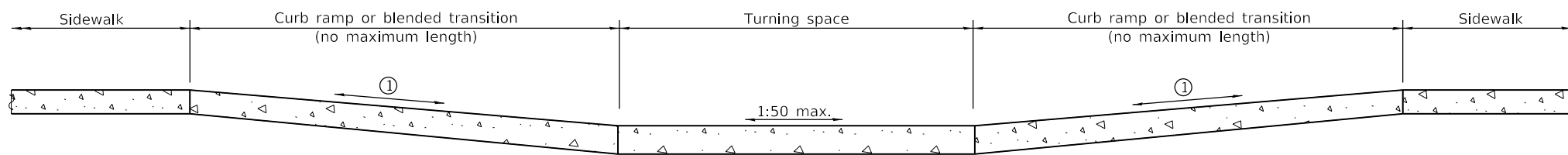
**DIAGONAL CURB RAMPS FOR SIDEWALKS**

**STANDARD 424006-05**



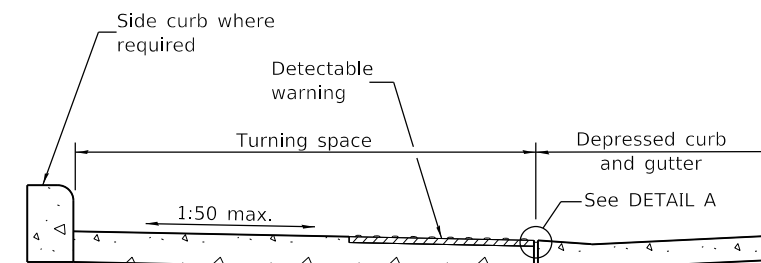


**CORNER PARALLEL CURB RAMP**

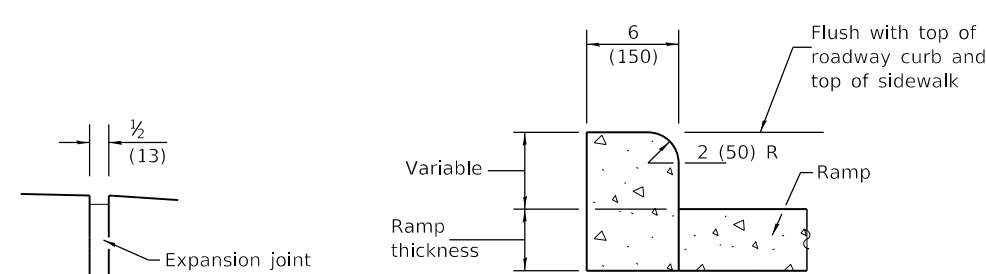


**SECTION A-A**

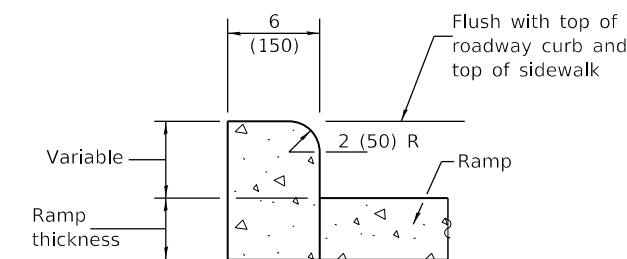
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



**SECTION B-B**



**DETAIL A**



**SIDE CURB DETAIL**

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transition and detectable warning tolerances.
1-1-17	Revised sidewalk width to include 24 (610) buffer behind curb.

**CORNER PARALLEL CURB RAMPS FOR SIDEWALKS**

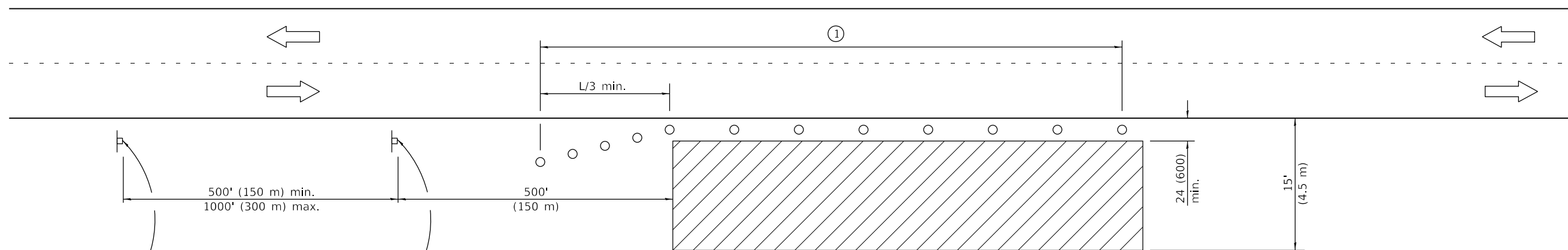
**STANDARD 424011-04**

Illinois Department of Transportation

PASSED January 1, 2019  
*Michael Bond*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019  
*John E. ...*  
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ISSUED 1-1-12



For contract construction projects

**ROAD CONSTRUCTION AHEAD**

W20-1103(0)-48

**ROAD WORK AHEAD**

W21-1(0)-48

For maintenance and utility projects




**ROAD WORK AHEAD**

W20-1(0)-48

**TYPICAL APPLICATIONS**

- Utility operations
- Culvert extensions
- Side slope changes
- Guardrail installation and maintenance
- Delineator installation
- Landscaping operations
- Shoulder repair
- Sign installation and maintenance

**SYMBOLS**

-  Work area
-  Sign
-  Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

**GENERAL NOTES**

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE**

**STANDARD 701006-05**

Illinois Department of Transportation

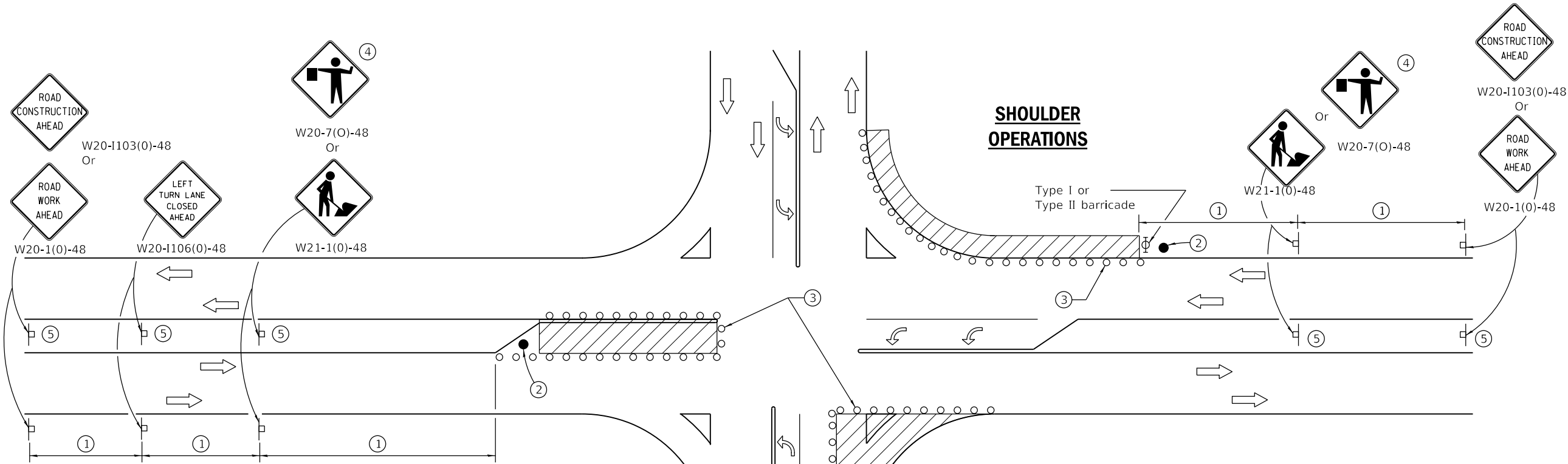
PASSED January 1, 2014

ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



**LEFT TURN LANE OR CENTER MEDIAN OPERATIONS**

- ① Refer to SIGN SPACING TABLE for distance.
- ② Required for speed > 40 mph.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Use flagger sign only when flagger is present.
- ⑤ Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Advanced arrow board required for speeds > 45 mph.
- ⑧ Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

**SYMBOLS**

- Work area
- Cone, drum or barricade
- Sign on portable or permanent support
- Arrow board
- Barricade or drum with flashing light
- Flagger with traffic control sign

**CORNER ISLAND OPERATIONS**

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper.
	Rev. workers sign number.

**URBAN LANE CLOSURE, MULTILANE INTERSECTION**

**STANDARD 701701-10**

Illinois Department of Transportation

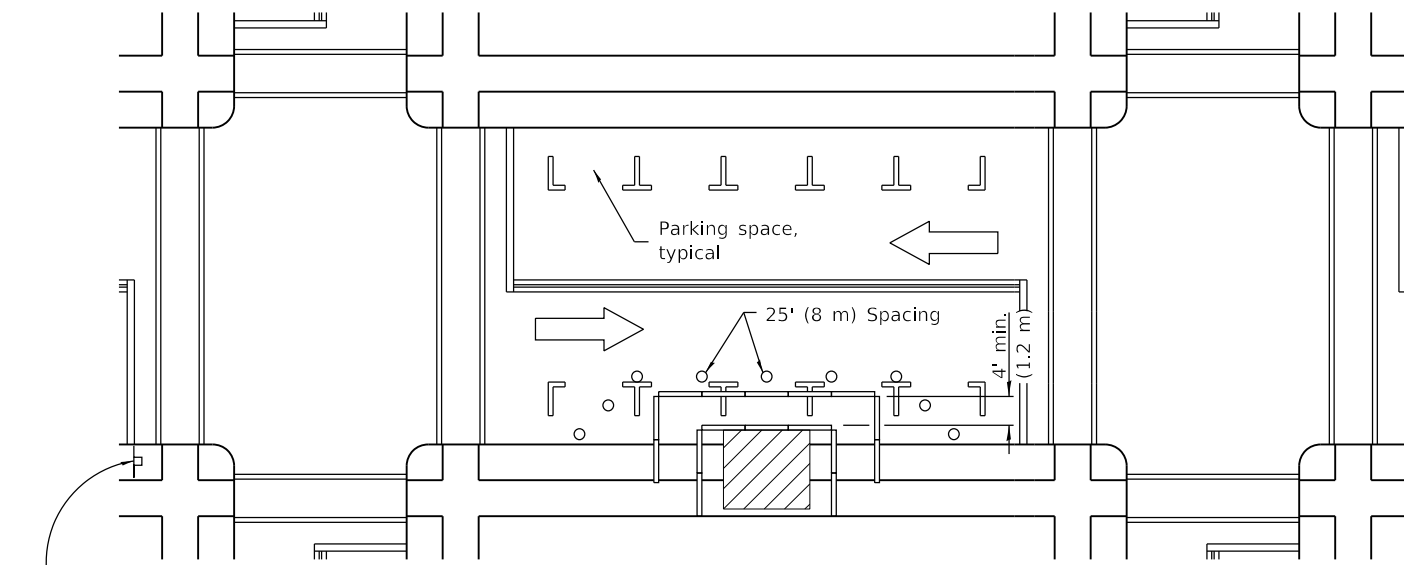
PASSED April 1, 2016

*Amelia Q. Davis*  
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

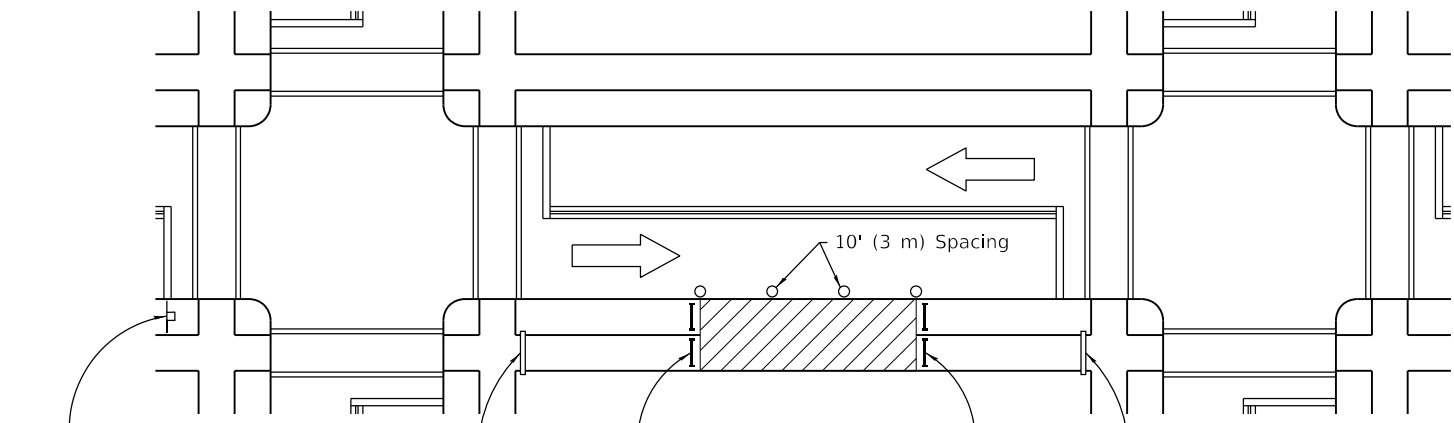
ISSUED 1-1-97



① ROAD CONSTRUCTION AHEAD  
W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD  
W20-1(0)-48 for maintenance and utility projects

**SIDEWALK DIVERSION**



① ROAD CONSTRUCTION AHEAD  
W20-1103(0)-48 for contract construction projects

Or  
① ROAD WORK AHEAD  
W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSED  
←  
USE OTHER SIDE  
R11-1102-2430

SIDEWALK CLOSED  
R11-1101-2418

SIDEWALK CLOSED  
→  
USE OTHER SIDE  
R11-1102-2430

**SIDEWALK CLOSURE**

① Omit whenever duplicated by road work traffic control.

**GENERAL NOTES**

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

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

**SYMBOLS**

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

Illinois Department of Transportation

PASSED April 1, 2016  
*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

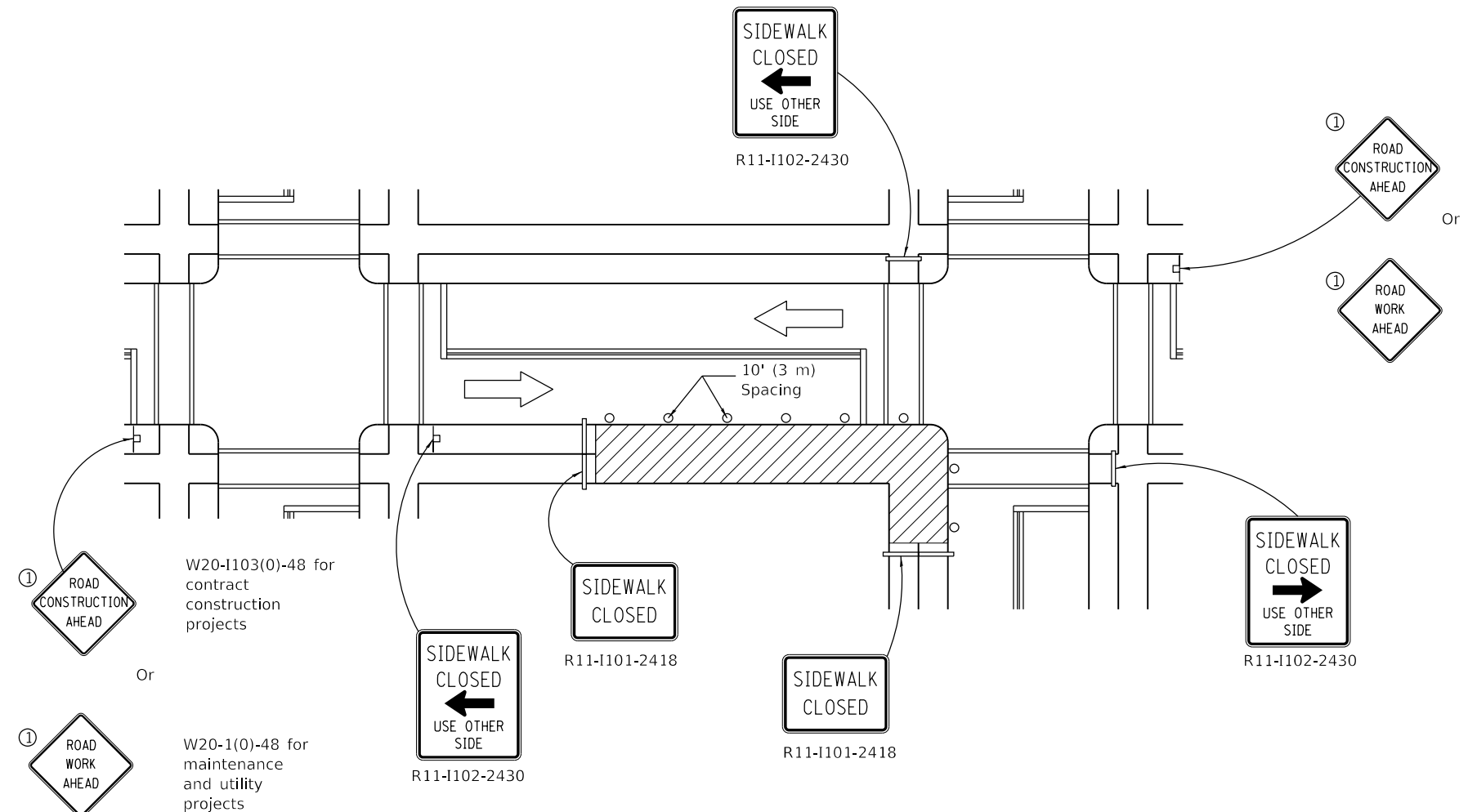
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION. Modified appearance of plan views. Renamed Std.

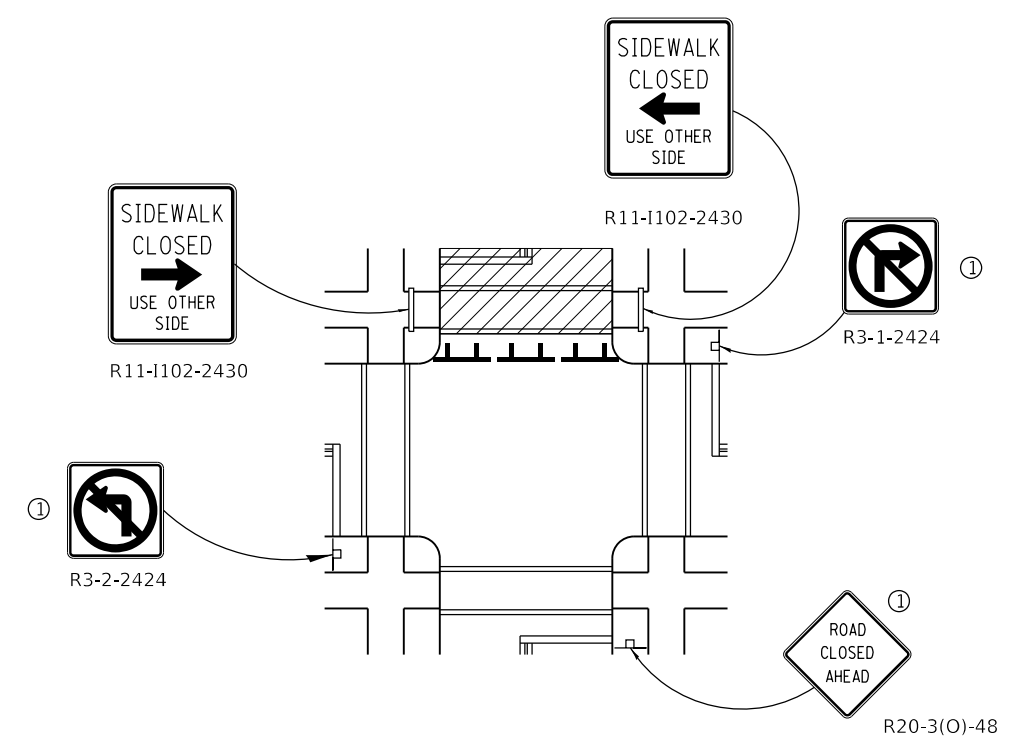
**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 1 of 2)

**STANDARD 701801-06**



**CORNER CLOSURE**



**CROSSWALK CLOSURE**

W20-I103(0)-48 for contract construction projects  
Or  
W20-1(0)-48 for maintenance and utility projects

W20-I103(0)-48 for contract construction projects  
Or  
W20-1(0)-48 for maintenance and utility projects

**SIDEWALK, CORNER OR CROSSWALK CLOSURE**

(Sheet 2 of 2)

**STANDARD 701801-06**

Illinois Department of Transportation

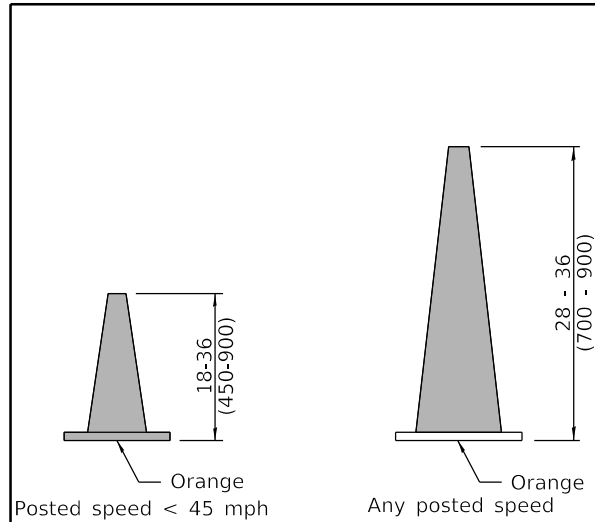
PASSED April 1, 2016

*[Signature]*  
ENGINEER OF SAFETY ENGINEERING

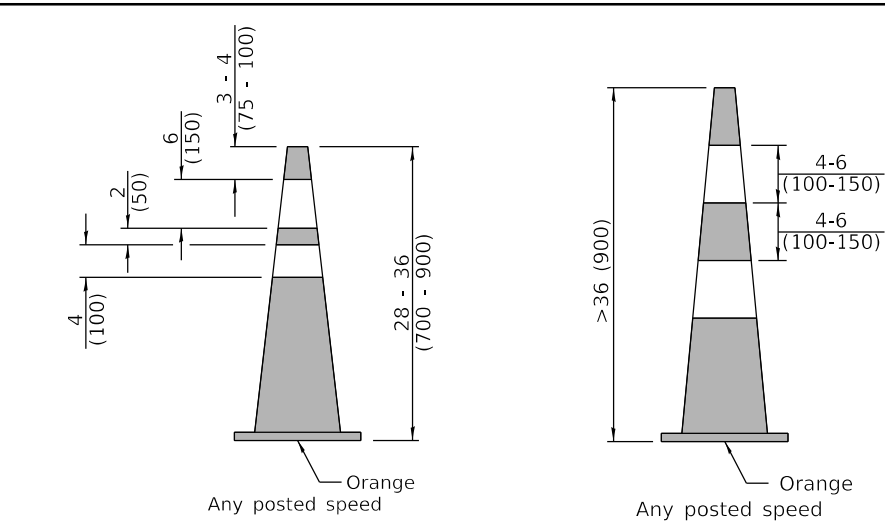
APPROVED April 1, 2016

*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

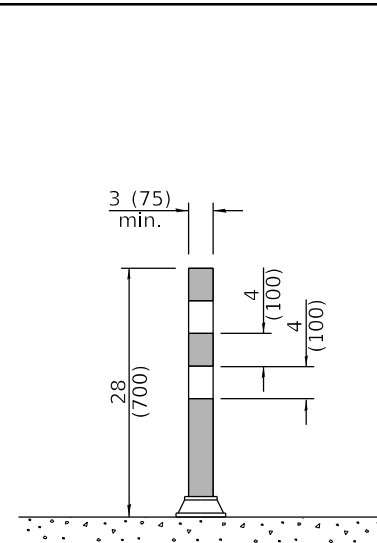
ISSUED 1-1-97



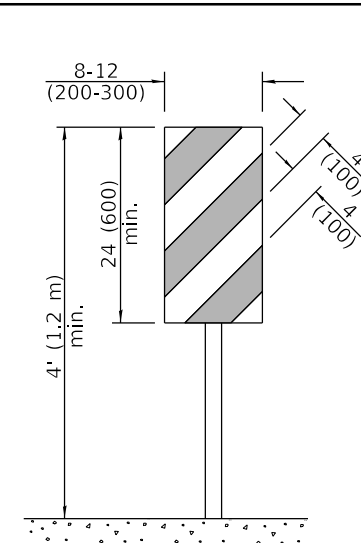
**DAYTIME USE**



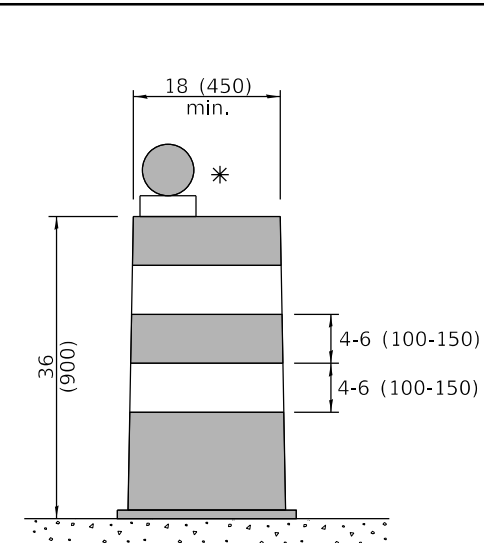
**DAY OR NIGHTTIME USE**



**TUBULAR MARKER**

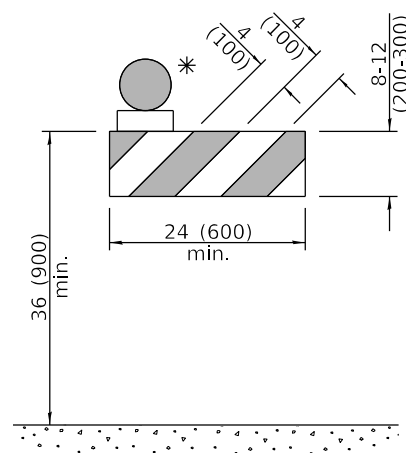


**VERTICAL PANEL  
POST MOUNTED**

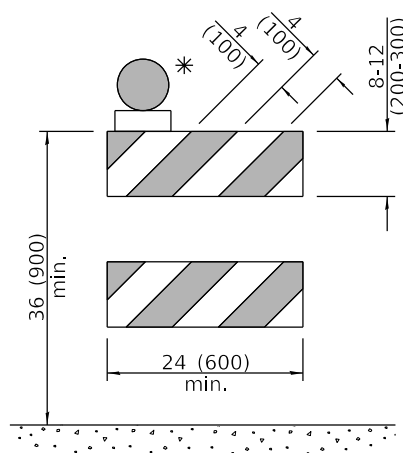


**DRUM**

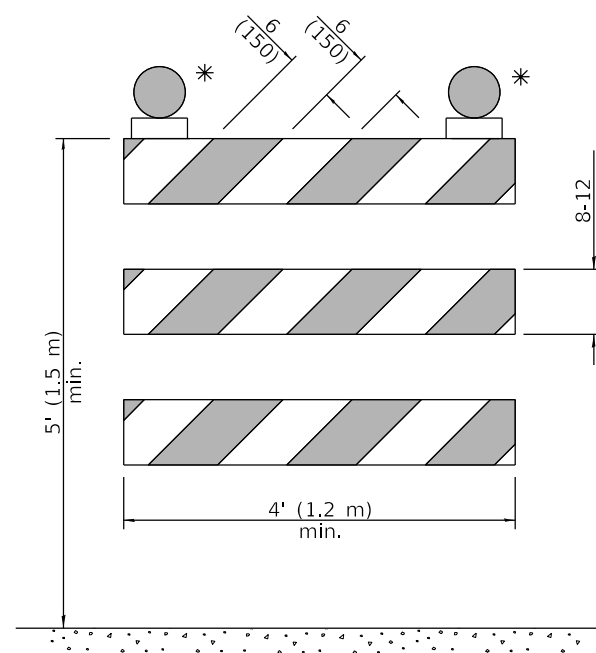
**CONES**



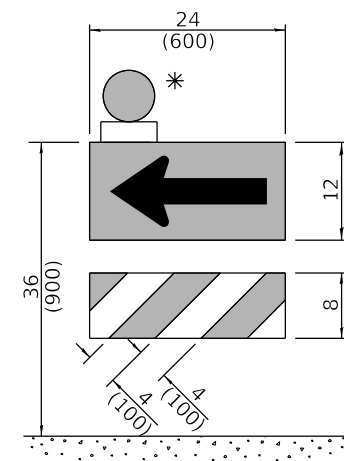
**TYPE I BARRICADE**



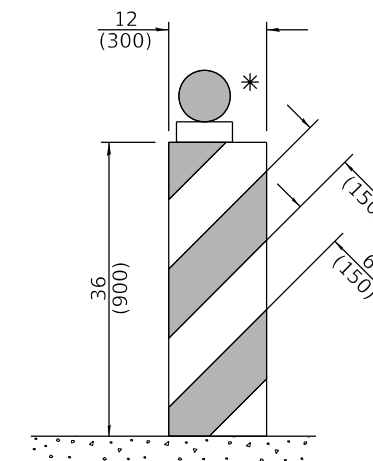
**TYPE II BARRICADE**



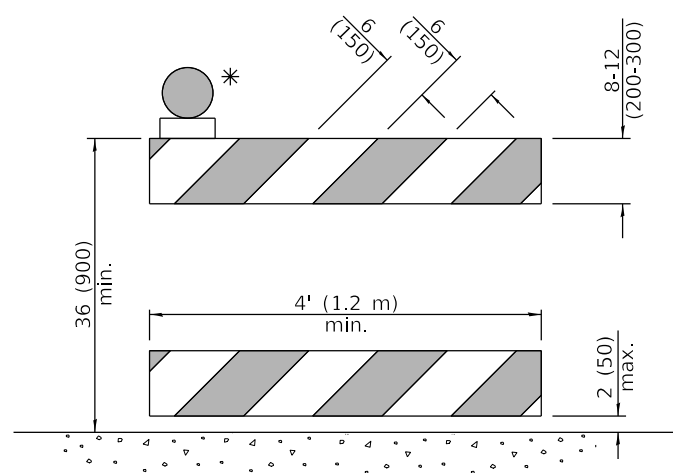
**TYPE III BARRICADE**



**DIRECTION INDICATOR  
BARRICADE**



**VERTICAL BARRICADE**



**DETECTABLE PEDESTRIAN  
CHANNELIZING BARRICADE**

\* Warning lights (if required)

**GENERAL NOTES**

All heights shown shall be measured above the pavement surface.

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

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 mm) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

**TRAFFIC CONTROL DEVICES**

(Sheet 1 of 3)

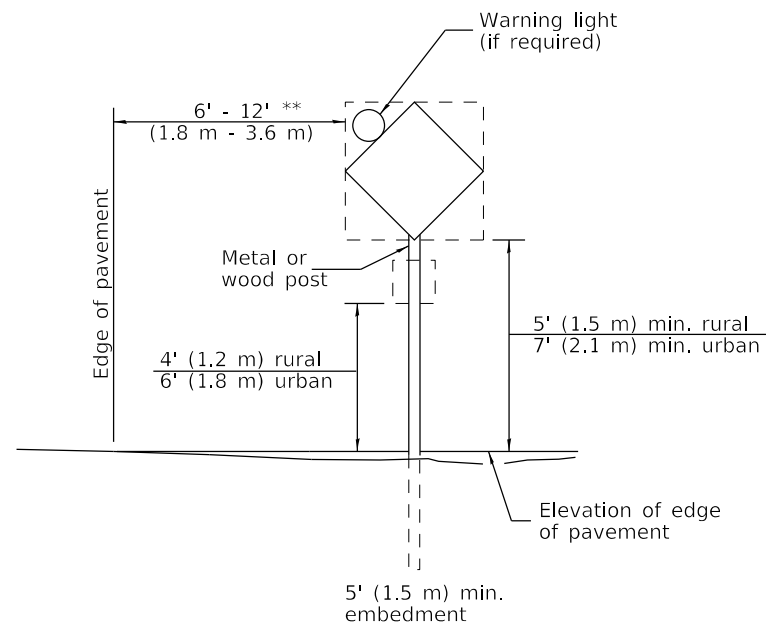
**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019  
  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

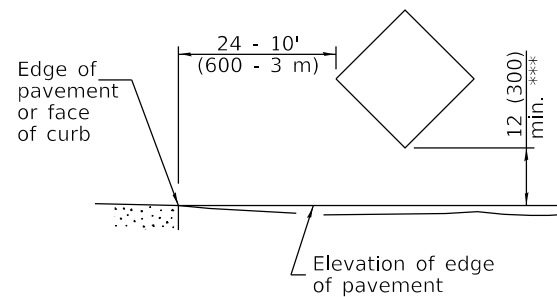
APPROVED January 1, 2019  
  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED  
 ET-1-1



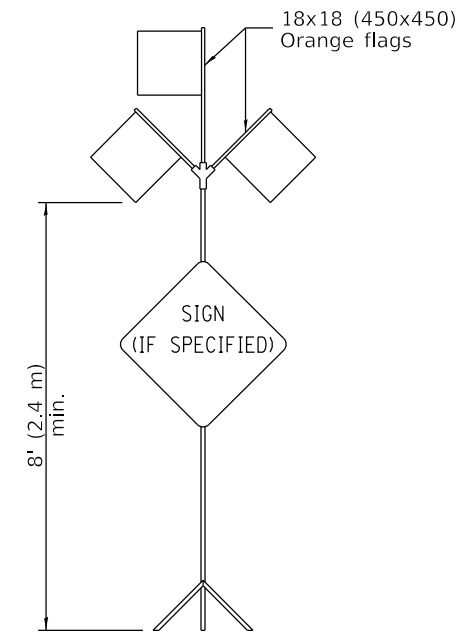
**POST MOUNTED SIGNS**

\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

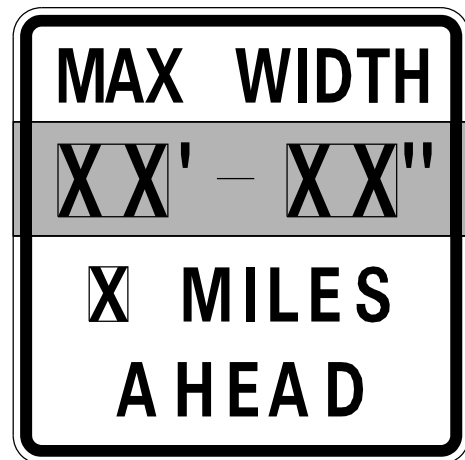


**SIGNS ON TEMPORARY SUPPORTS**

\*\*\* When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



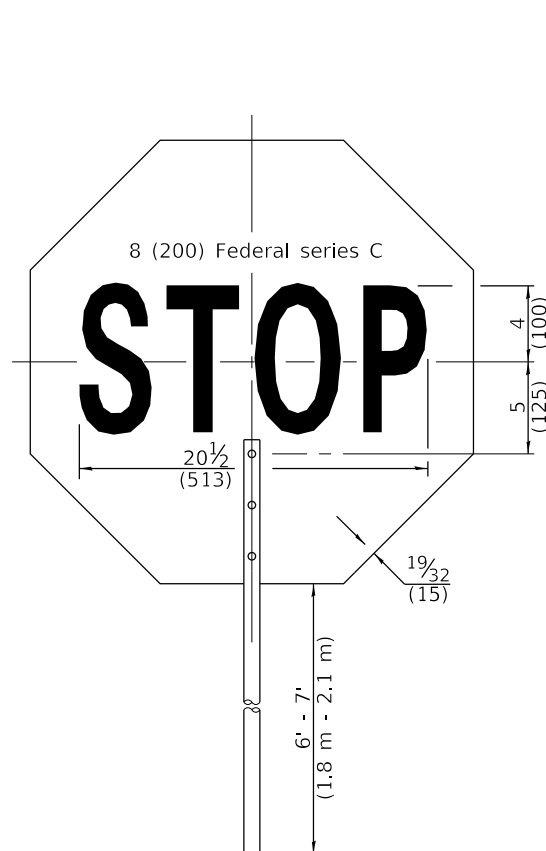
**HIGH LEVEL WARNING DEVICE**



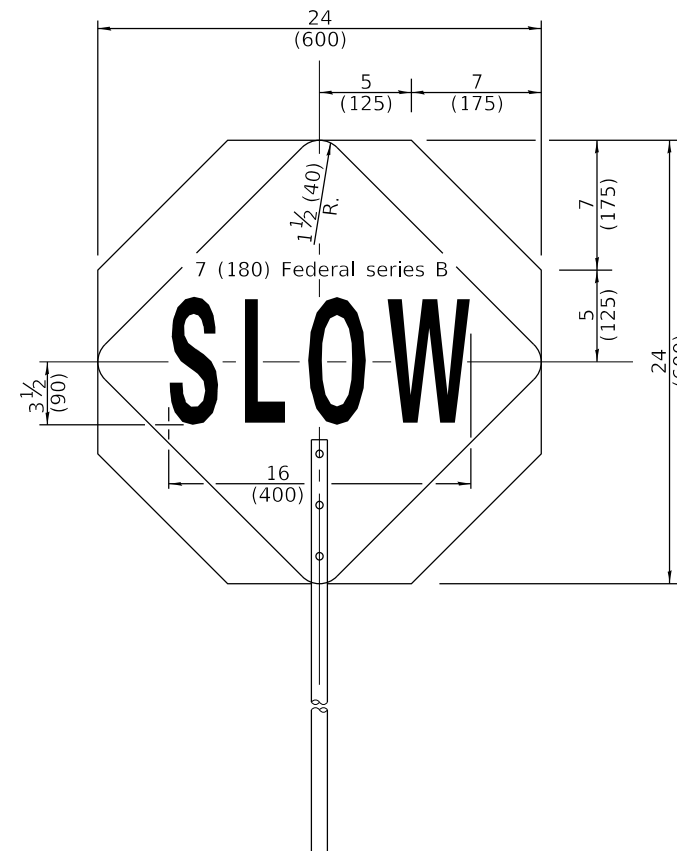
W12-I103-4848

**WIDTH RESTRICTION SIGN**

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

**FLAGGER TRAFFIC CONTROL SIGN**



G20-I104(0)-6036



G20-I105(0)-6024

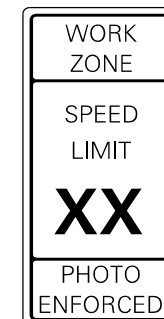
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

**WORK LIMIT SIGNING**



W21-III5(0)-3618

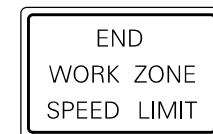
R2-1-3648

R10-I108p-3618 \*\*\*\*



R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

**HIGHWAY CONSTRUCTION SPEED ZONE SIGNS**

\*\*\*\* R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL DEVICES**

(Sheet 2 of 3)

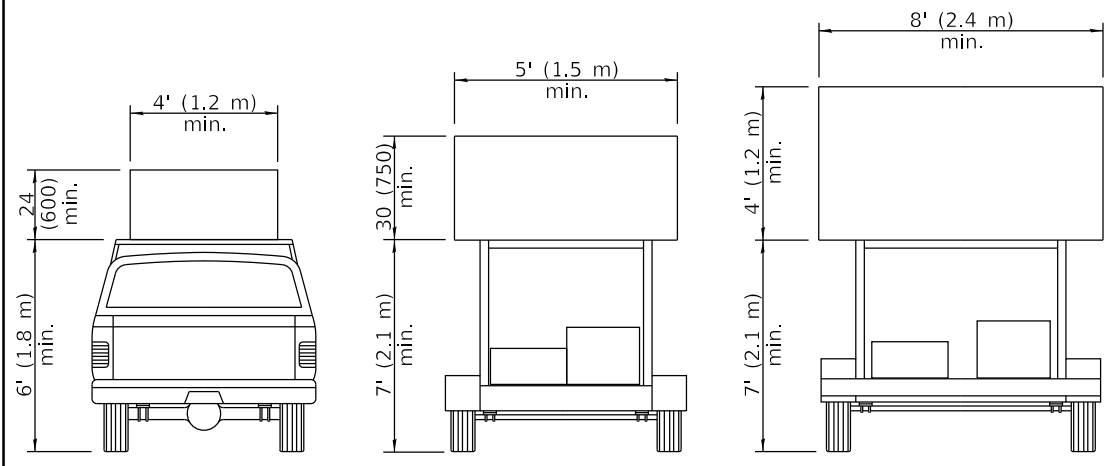
**STANDARD 701901-08**

Illinois Department of Transportation

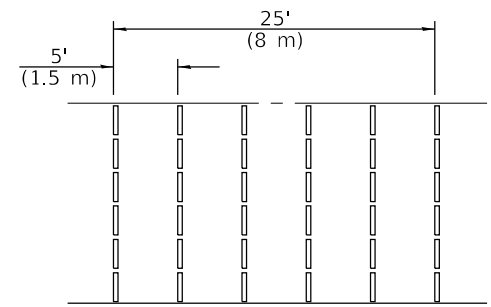
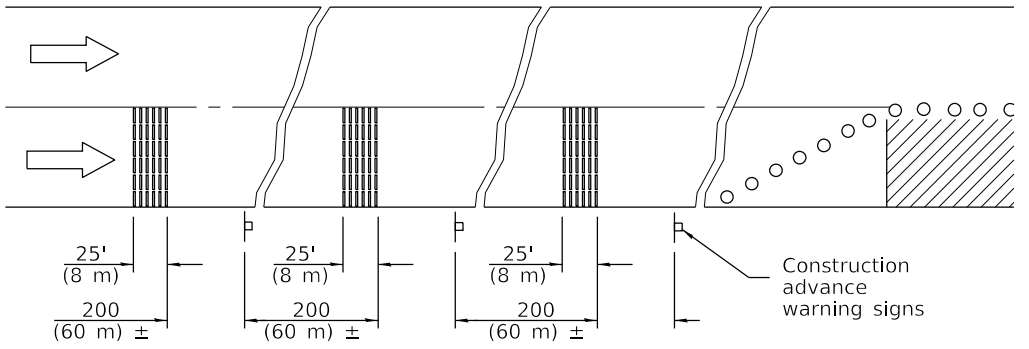
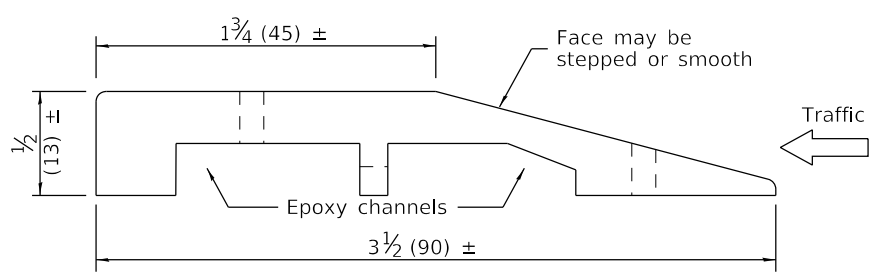
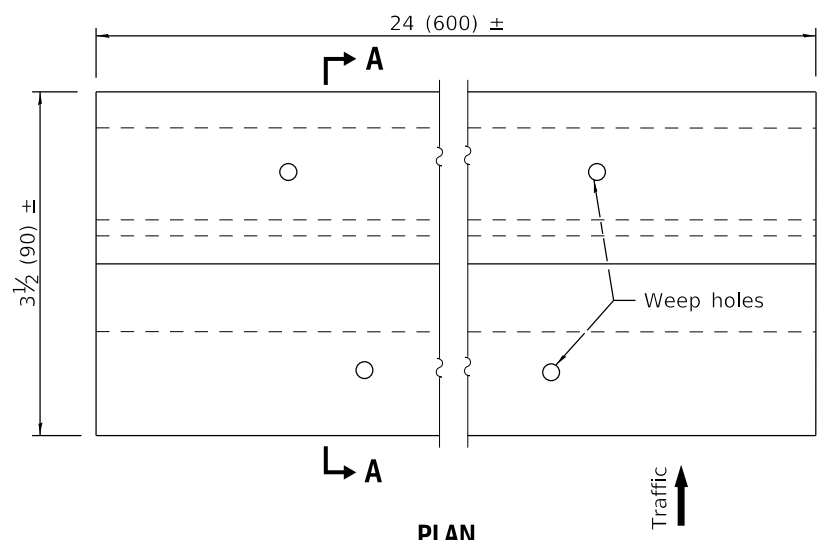
APPROVED January 1, 2019  
*Cynthia Watt*  
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*J. E. C.*  
 ENGINEER OF DESIGN AND ENVIRONMENT

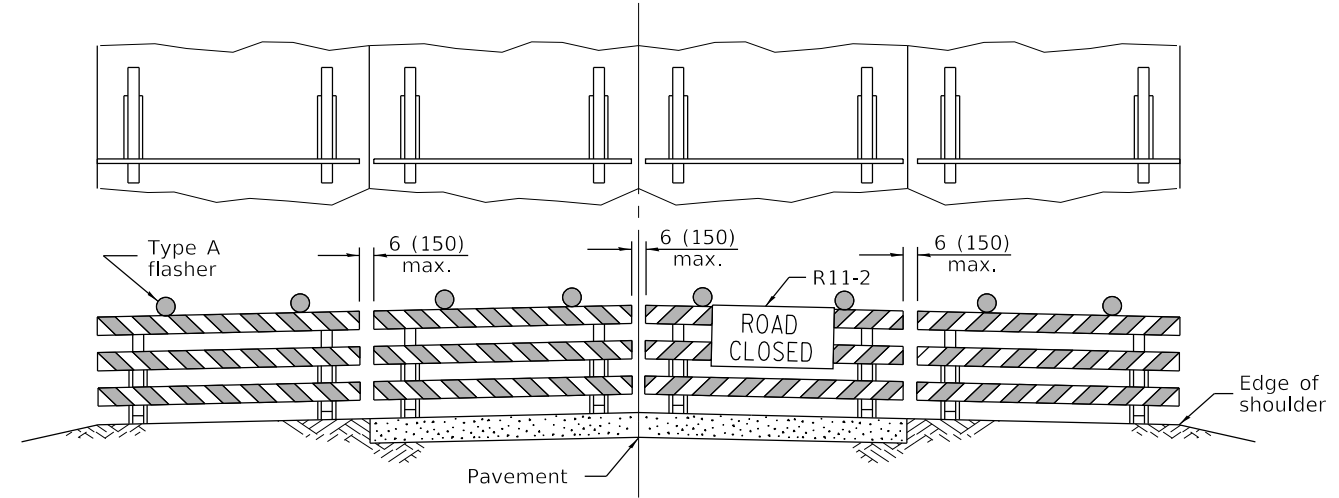
ISSUED 1-1-13



**ARROW BOARDS**

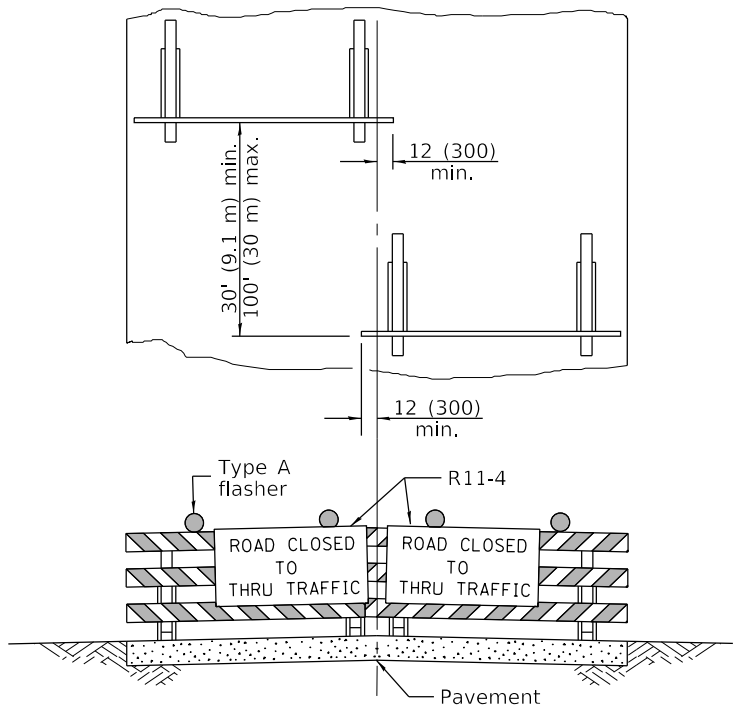


**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

Illinois Department of Transportation

APPROVED January 1, 2019

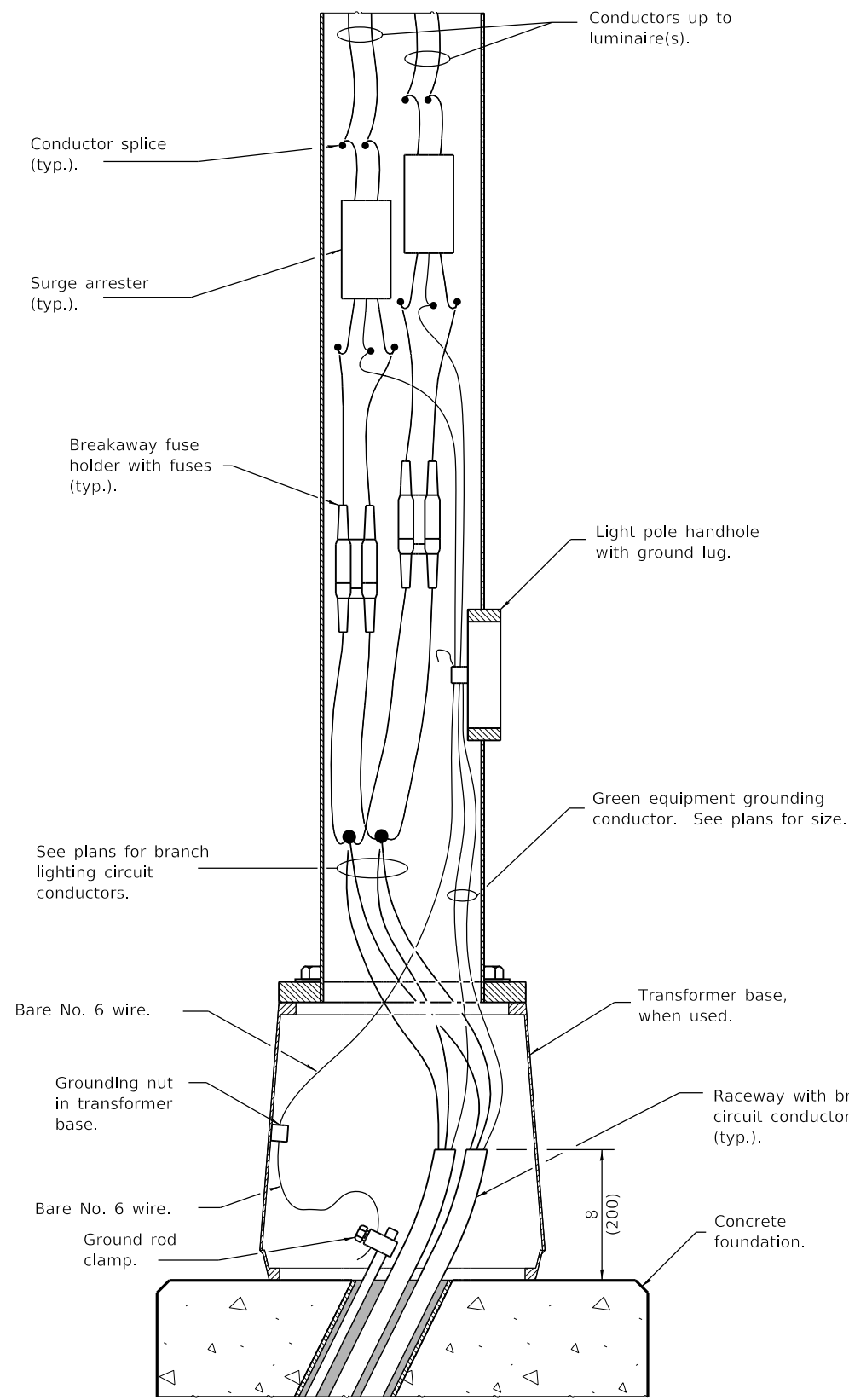
*Cynthia Watt*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

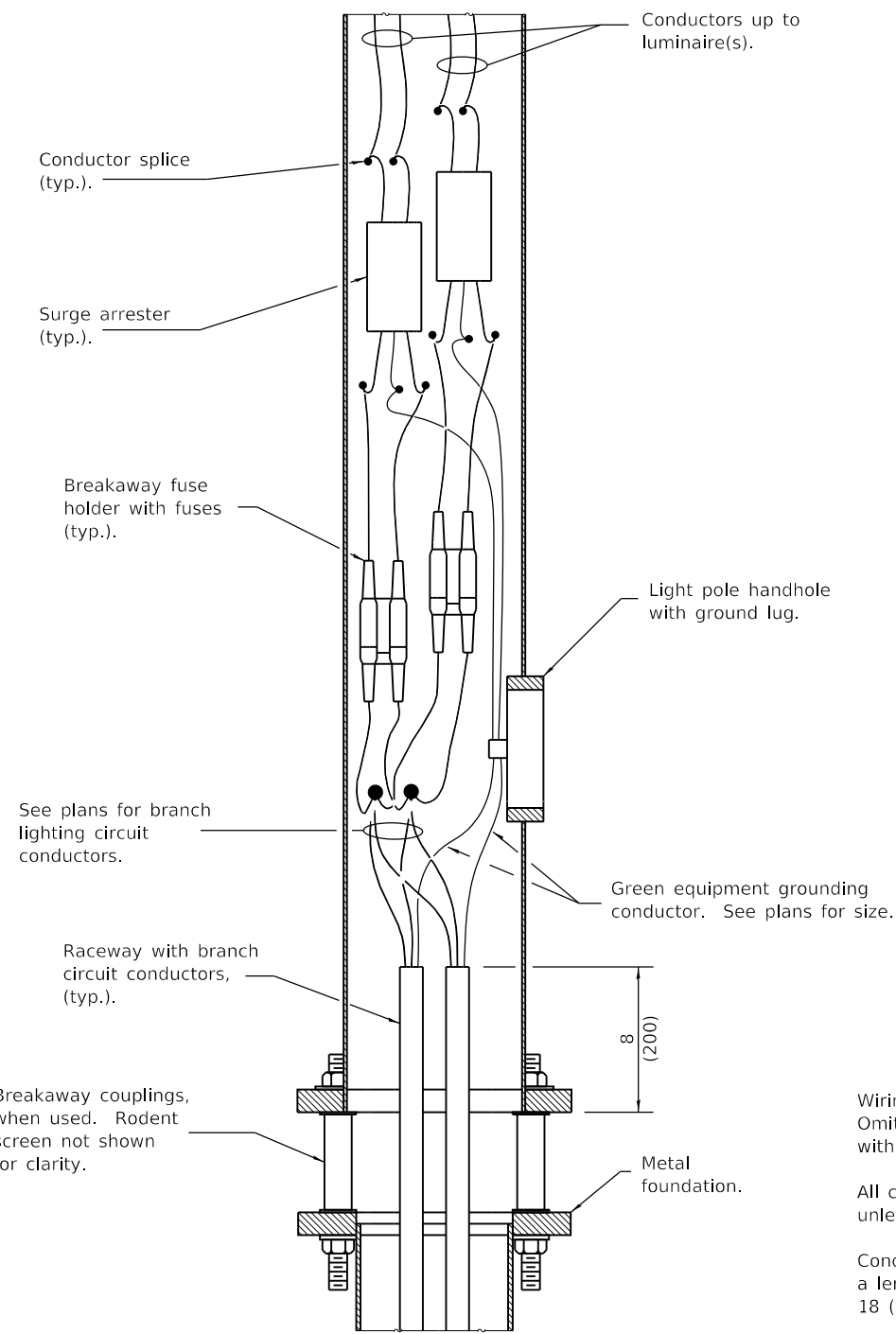
*Joe E. ...*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES: E1-1-1 Q3581





**ELEVATION AT POLE BASE WITH CONCRETE FOUNDATION**



**ELEVATION AT POLE BASE WITH METAL FOUNDATION**  
(Rodent screen not shown)

**GENERAL NOTES**

Wiring for twin luminaire installation shown. Omit one fuse holder and one surge arrester with connections for single luminaire installation.

All conductors originating in pole shall be No. 10 unless noted otherwise.

Conductors extended into light poles shall be of a length sufficient for splices to be withdrawn 18 (450) out of pole handhole.

Any voids in the foundation shall be filled with fine aggregate.

See Standard 836001 for Light Pole Foundation and ground rod.

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

DATE	REVISIONS
1-1-17	Renamed standard.
1-1-15	Changed 'protector' to 'arrester'.

**LUMINAIRE WIRING IN POLE**

**STANDARD 821101-02**

Illinois Department of Transportation

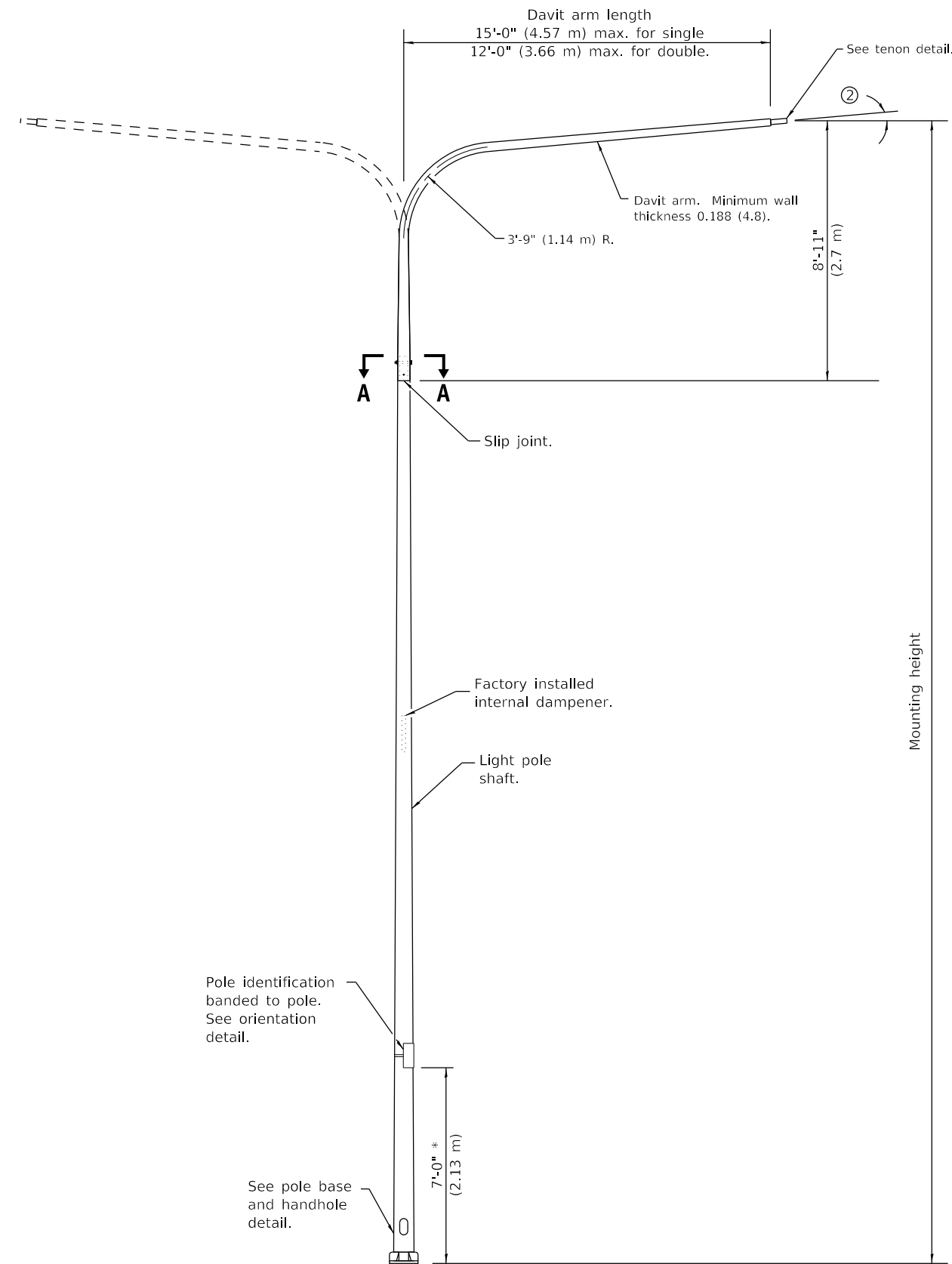
PASSED January 1, 2017

ENGINEER OF PRELIMINARY ENGINEERING

APPROVED January 1, 2017

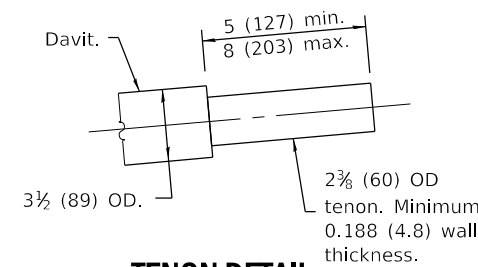
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-14

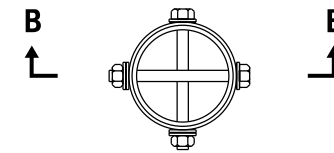


POLE BASE	
MOUNTING HEIGHT	BOLT CIRCLE DIAMETER
35' (10.7 m) or less	11½ (290)
Greater than 35' (10.7 m) to 50' (15.2 m)	15 (380)

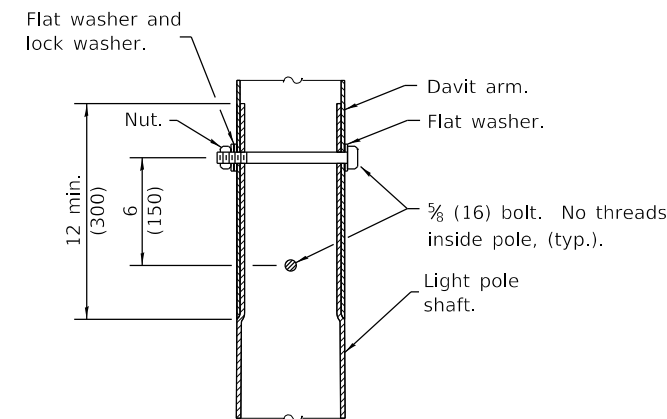
POLE LOWER SHAFT			
MOUNTING HEIGHT	LOWER SHAFT LENGTH ①	MINIMUM SHAFT DIAMETER	MINIMUM WALL THICKNESS
30' (9.1 m)	21'-1" (6.4 m)	8 tapered to 6 (200 to 114)	0.25 (6)
35' (10.7 m)	26'-1" (7.9 m)	8 tapered to 6 (200 to 114)	0.25 (6)
40' (12.2 m)	31'-1" (9.5 m)	10 tapered to 6 (250 to 150)	0.25 (6)
45' (13.7 m)	36'-1" (11.0 m)	10 tapered to 6 (250 to 150)	0.25 (6)
50' (15.2 m)	41'-1" (12.5 m)	10 tapered to 6 (250 to 150)	0.312 (8)



**TENON DETAIL**



**SECTION A-A**



**SECTION B-B**

- ① Lower shaft length shall be from the bottom of the pole base to the bottom of the slip joint.
- ② 5° max. for unloaded pole, 1.5° max. for loaded pole.

**GENERAL NOTES**

See Standard 836001 for Light Pole Foundation and grounding electrode.

See Standard 720001 for pole identification banding to pole.

Voids in light pole base shall be sealed to prevent rodent entry.

Provide breakaway devices where required.

Where anchor rods on existing bridge parapets are too short to mount poles as shown, install leveling plate directly on concrete and level with stainless steel washers.

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

**DAVIT LIGHT POLE**

(Single or twin mount)

\* Unless directed otherwise by the Engineer.

Illinois Department of Transportation

PASSED January 1, 2019  
*ME Reppelt*  
 ELECTRICAL AND MECHANICAL UNIT CHIEF

APPROVED January 1, 2019  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

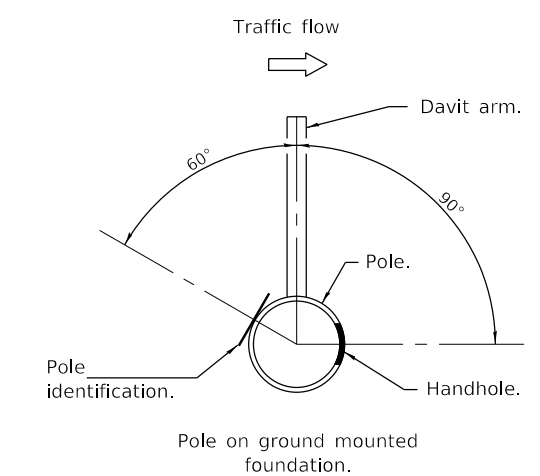
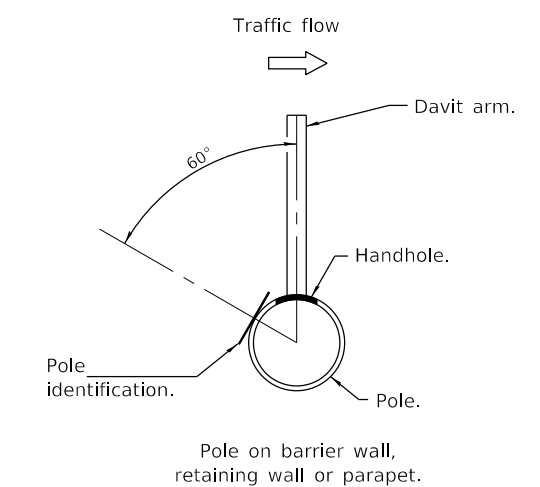
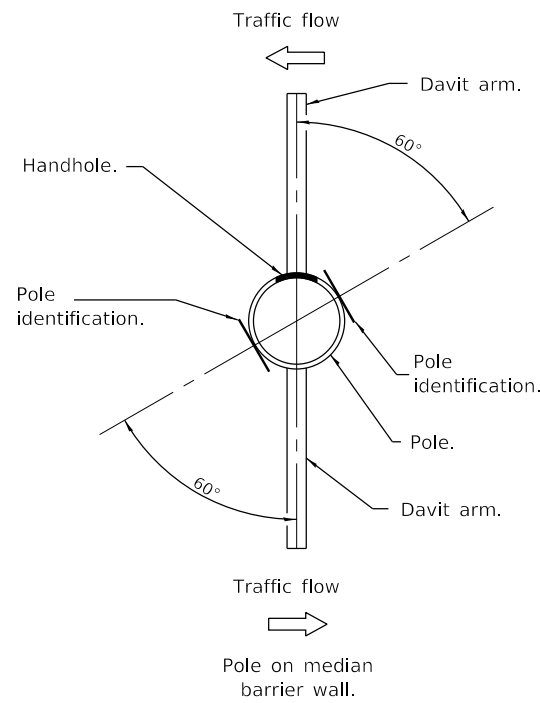
ISSUED 1-1-12

DATE	REVISIONS
1-1-19	Revised standard to comply with the 2013 version of AASHTO.
1-1-17	Added notes ③ and ④.

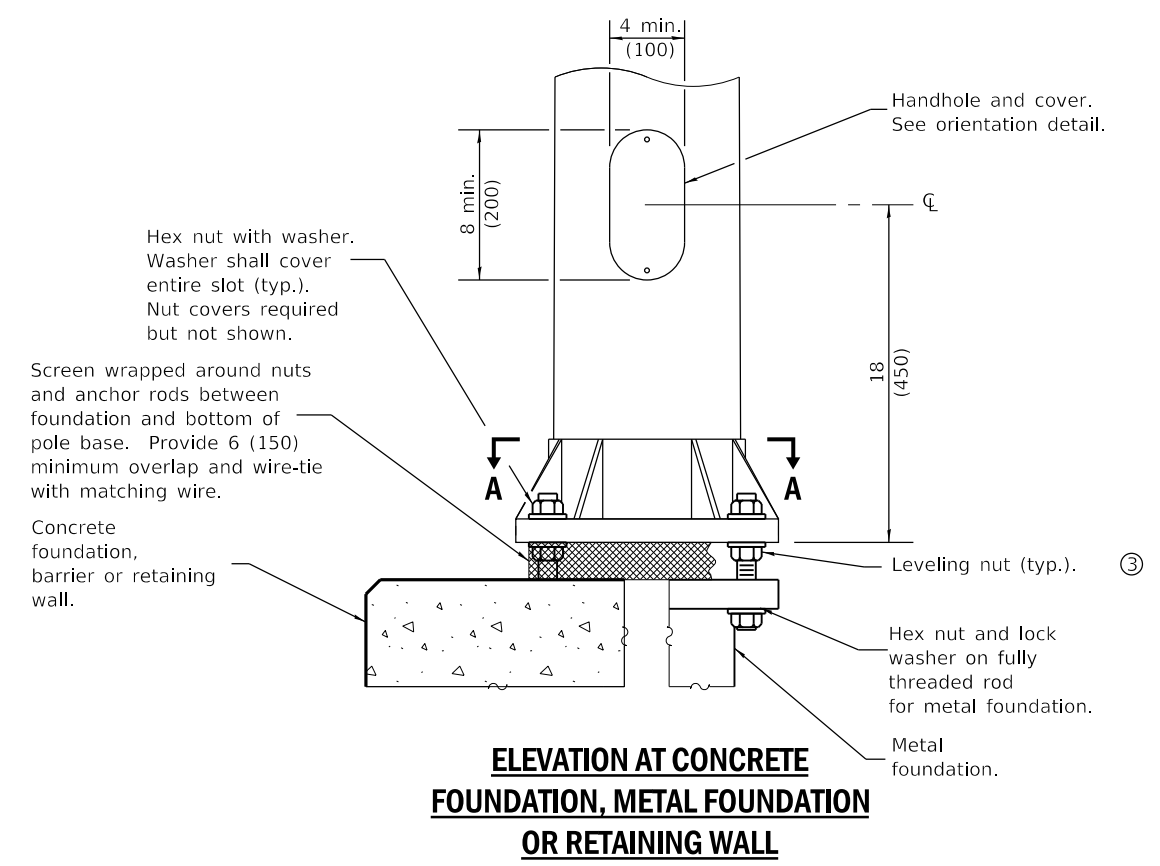
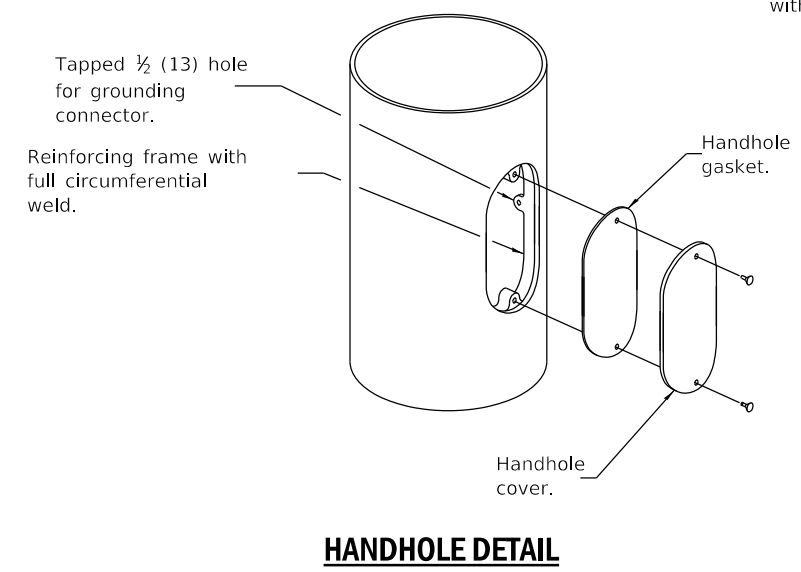
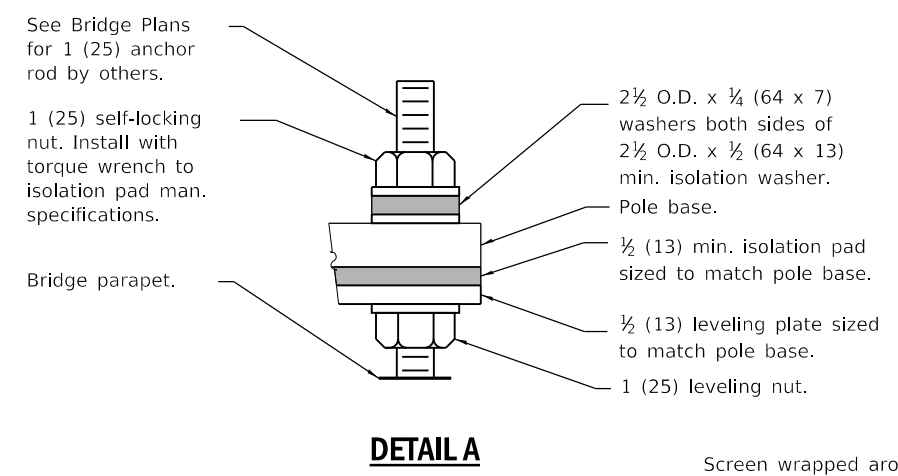
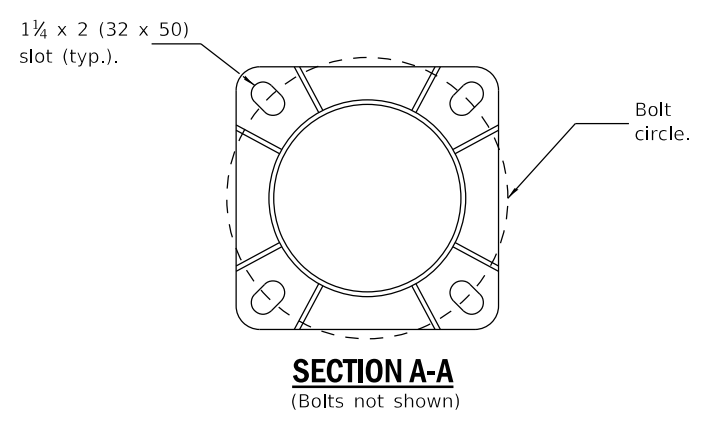
**LIGHT POLE  
ALUMINUM DAVIT ARM**

(Sheet 1 of 2)

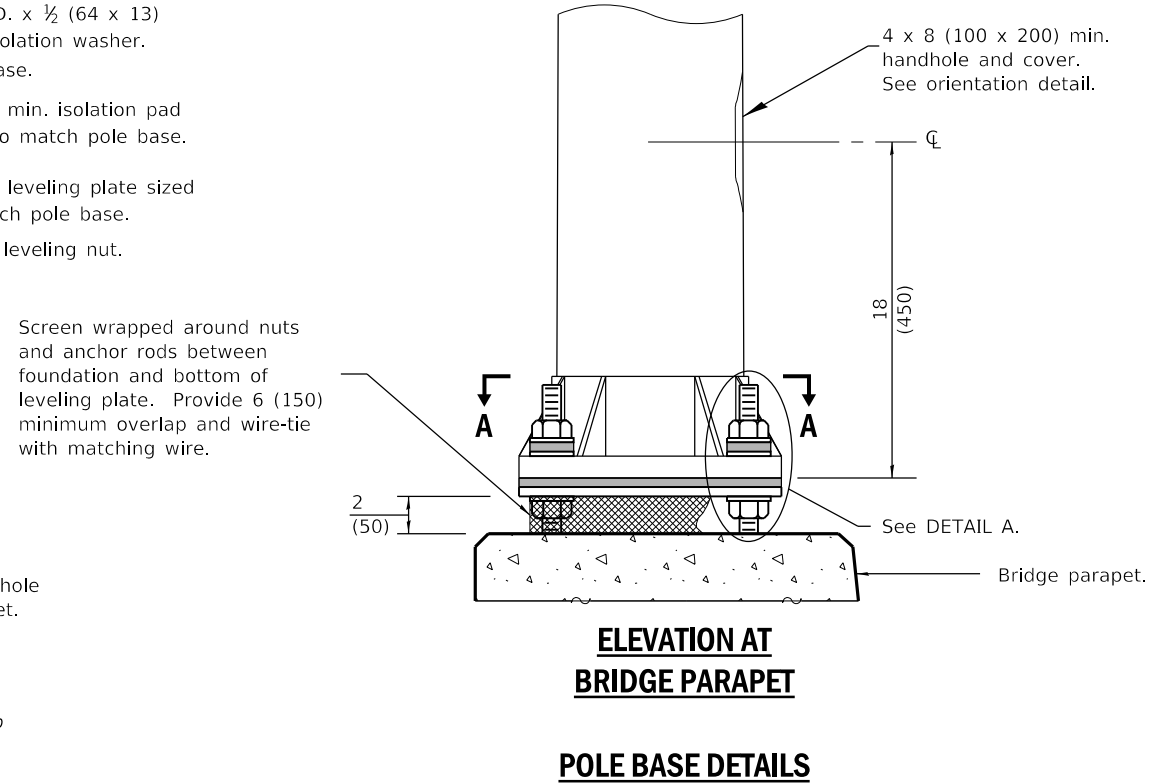
**STANDARD 830006-05**



**HANDHOLE / IDENTIFICATION ORIENTATION DETAIL**



③ Omit leveling nuts when breakaway devices are required.



**POLE BASE DETAILS**

Illinois Department of Transportation

PASSED January 1, 2019  
*ME Reppelt*  
 ELECTRICAL AND MECHANICAL UNIT CHIEF

APPROVED January 1, 2019  
*J. E. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

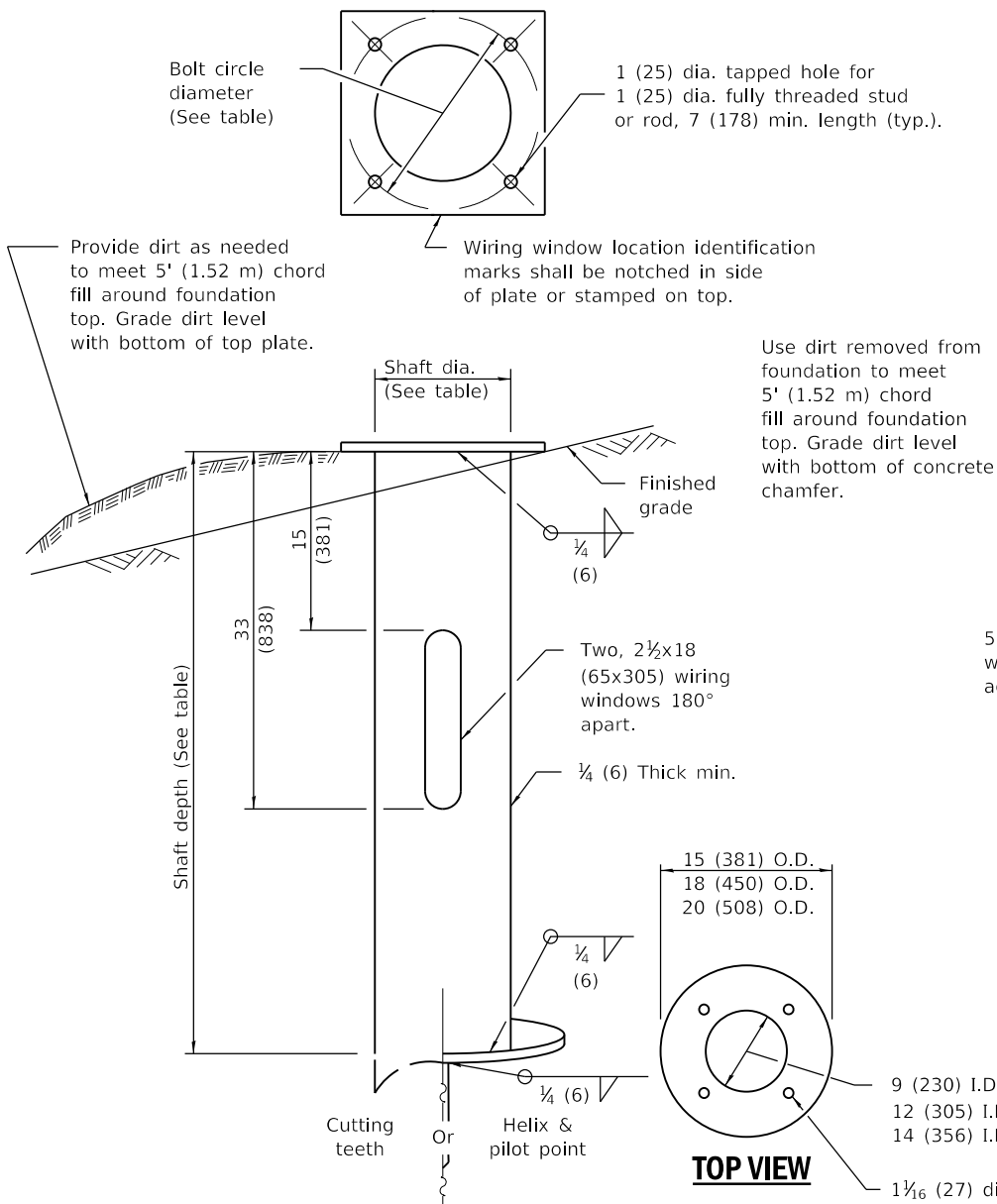
**LIGHT POLE ALUMINUM DAVIT ARM**

(Sheet 2 of 2)

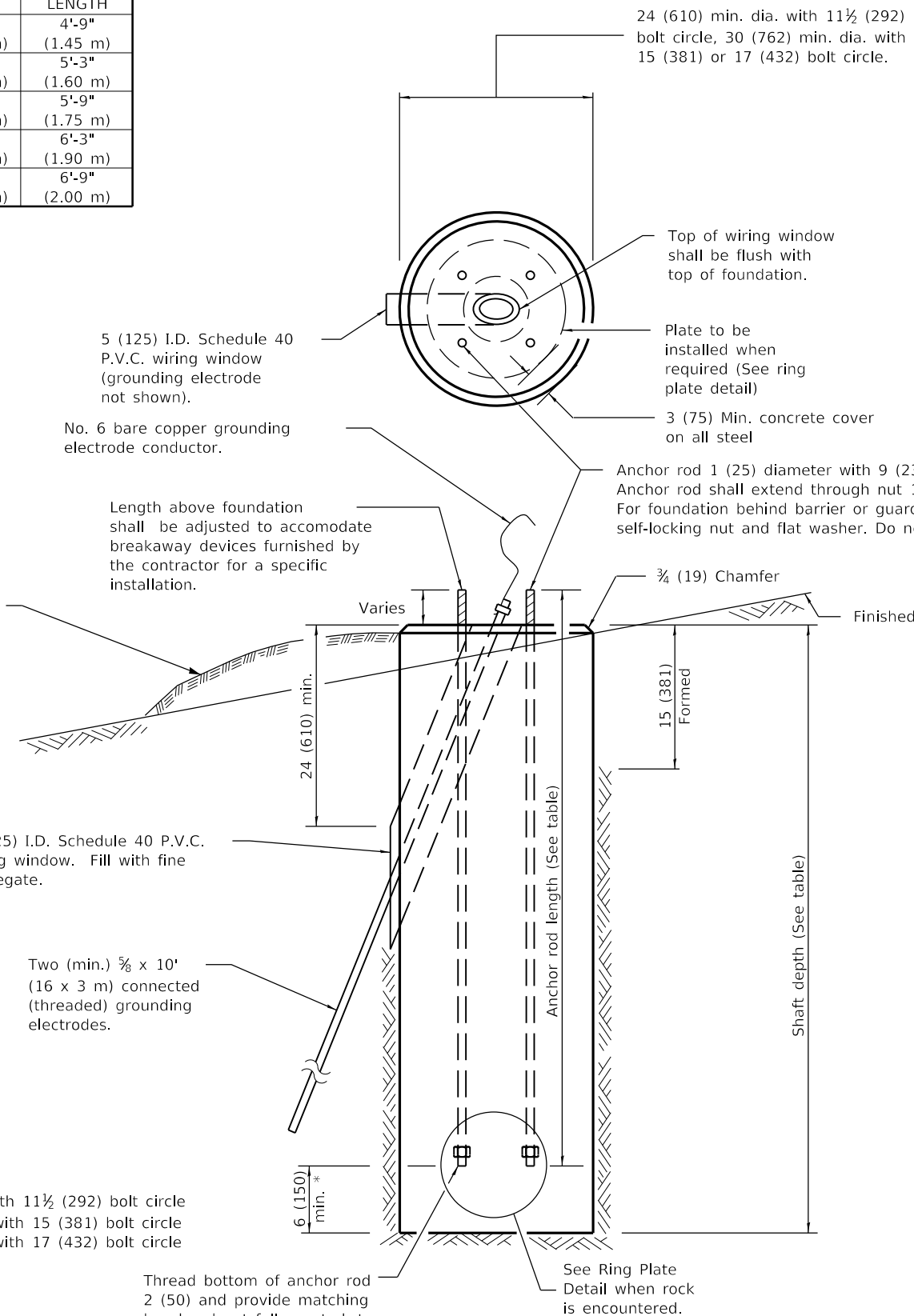
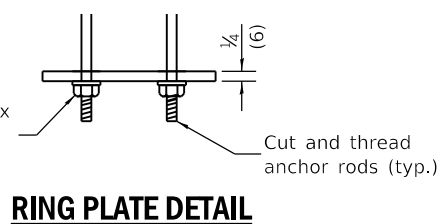
**STANDARD 830006-05**

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	METAL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH
≤30' (9.1 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381) ②	8⅝ (220)	6' (1.83 m)	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381) ②	8⅝ (220)	6' (1.83 m)	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381) ②	8⅝ (220)	8' (2.44 m)	15 x 15 x 1¼ (375 x 375 x 31)	30 (762)	7'-0" (2.13 m)	6'-9" (2.00 m)

- ① 8⅝ x 8'-0" (220 x 2.44 m) for twin luminaires.
- ② Bolt circle diam. shall be 17 (430) when a transformer base is used.



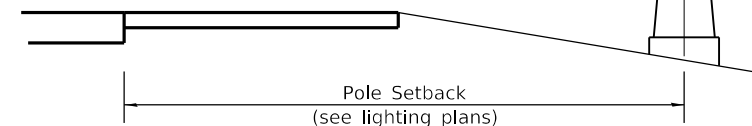
**METAL FOUNDATION**



**CONCRETE FOUNDATION**

\* If the required anchor rod length above top of foundation is less than 3 (75), anchor rods may be lowered below 6 (150).

Pole Foundation Setback:  
Maximum pole setback shall be 30' (9 m) from edge of pavement and shall be located no closer than 5' (1.5 m) behind guardrail or other protective barriers, or as directed by the Engineer.



**GENERAL NOTES**

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance of metal foundations and notify the Engineer if other conditions are encountered.

When rock is encountered the foundation depth may be reduced 6 (150) for every 12 (300) of embedment in rock. The minimum foundation depth shall be 4'-6" (1.37 m) with cut anchor rods 6 (150) above bottom of excavated hole. See ring plate detail.

Anchor rods shall be increased in diameter as needed for 50' (15.2 m) mounting height or above. The Contractor shall match the breakaway device size or slotted hole size in the pole base plate to accommodate larger rod sizes.

Transformer bases shall not be used on metal foundations.

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

DATE	REVISIONS
1-1-19	Omitted multimount luminaire to agree with BDE Manual.
1-1-18	Replaced rod hooks with nuts.

**LIGHT POLE FOUNDATION**

**STANDARD 836001-04**

Illinois Department of Transportation

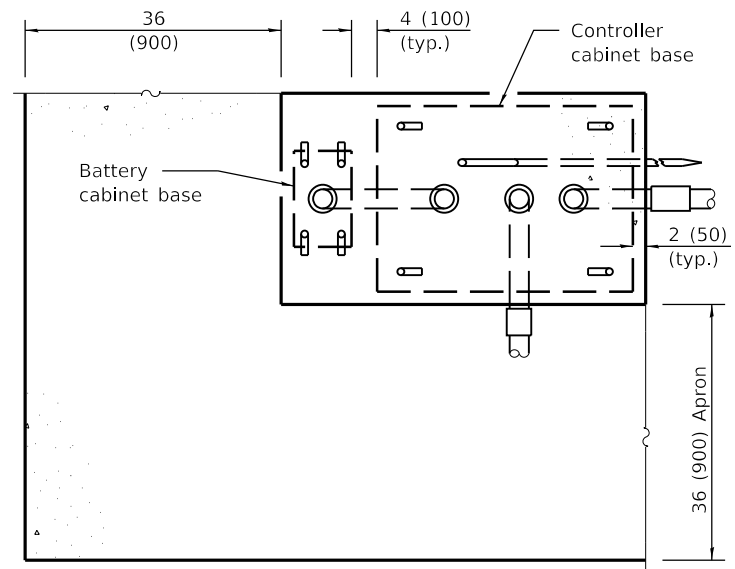
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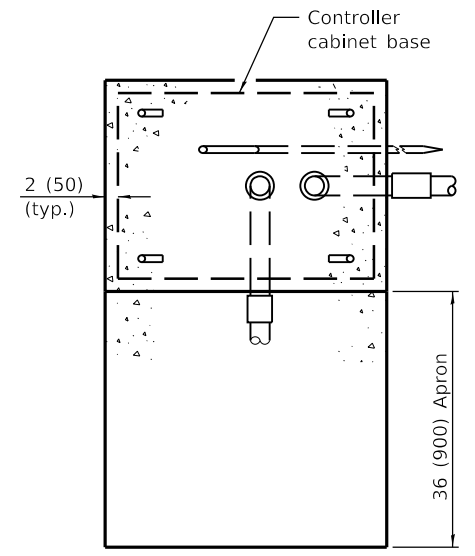
APPROVED January 1, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

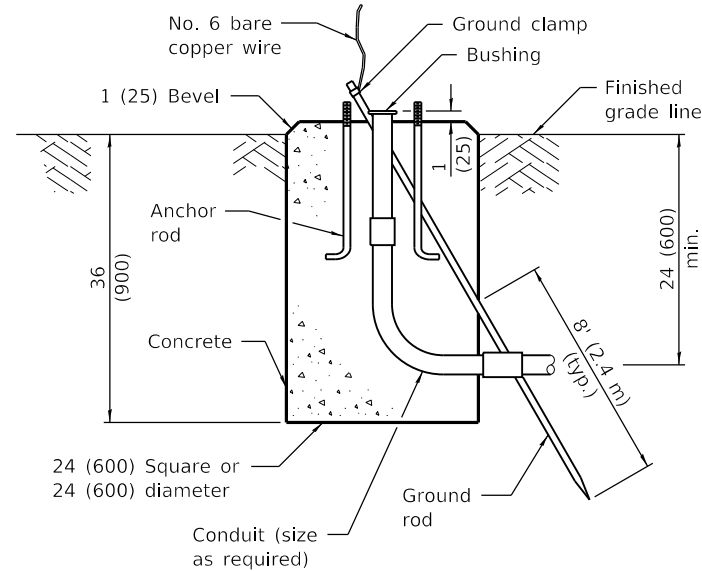
ISSUED 1-1-10



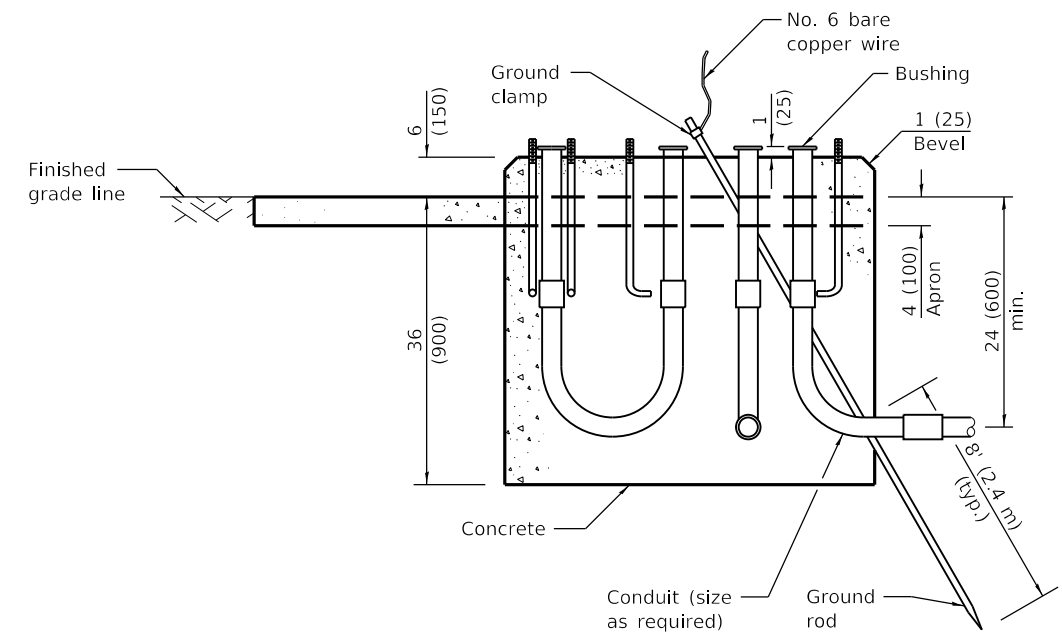
**TOP VIEW**



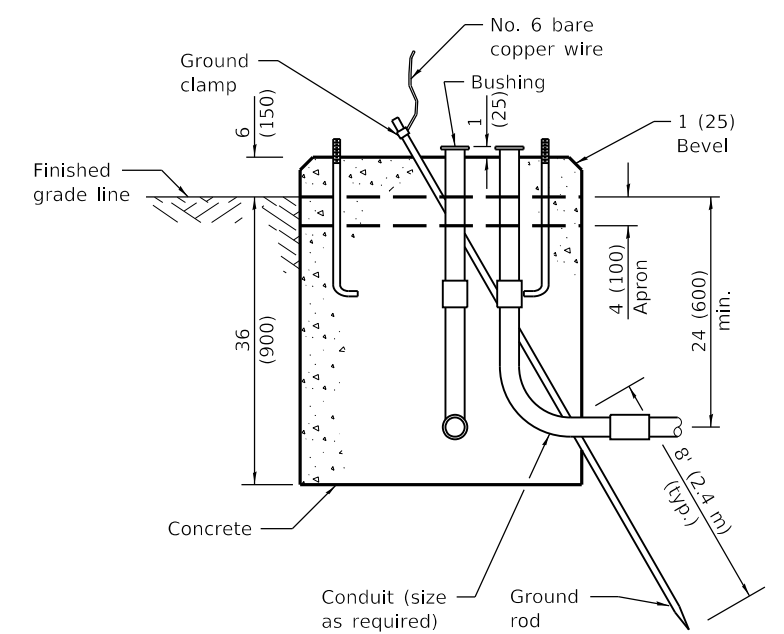
**TOP VIEW**



**TYPE A**



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



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET**

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

Illinois Department of Transportation

PASSED January 1, 2021  
*Amy Ellis*  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2021  
*S. E. EG*  
 ENGINEER OF DESIGN AND ENVIRONMENT

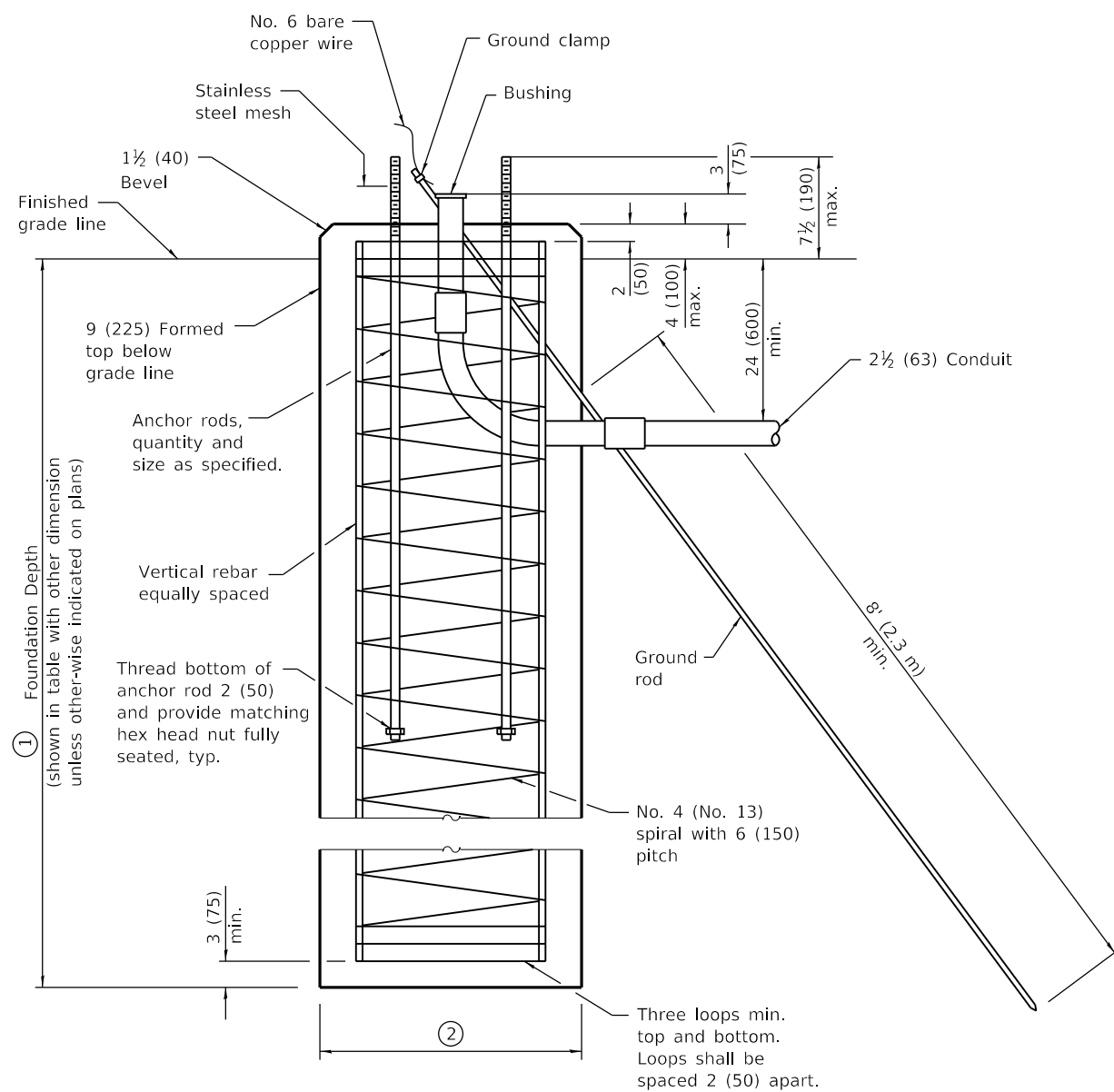
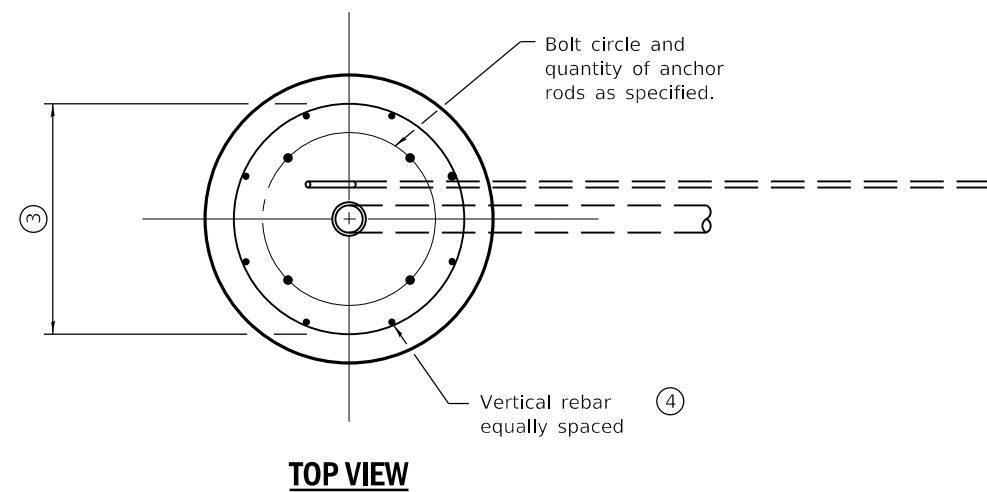
ISSUED 1-1-02

DATE	REVISIONS
1-1-21	Revised anchor rod end in Type E detail.
1-1-15	Revised TYPE E detail.

**CONCRETE  
FOUNDATION DETAILS**

(Sheet 1 of 2)

**STANDARD 878001-11**



Mast Arm Length	① Foundation Depth *	② Foundation Diameter	③ Spiral Diameter	④ Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30 (750)	24 (600)	8	6 (19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30 (750)	24 (600)	8	6 (19)
	11'-0" (3.4 m)	36 (900)	30 (750)	12	7 (22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36 (900)	30 (750)	12	7 (22)
	15'-0" (4.6 m)	36 (900)	30 (750)	12	7 (22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42 (1060)	36 (900)	16	8 (25)
	25'-0" (7.6 m)	42 (1060)	36 (900)	16	8 (25)

\* For standard and combination mast arm assemblies. Foundation depths for standard dual mast arms with the longest arm length upto and including 55' (16.8 m) shall be increased by 1' (0.3 m) of that shown in the table, based on the longer of the two arms.

These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength ( $Q_u$ ) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.

Illinois Department of Transportation

PASSED January 1, 2021  
*Amy Ellis*  
 ENGINEER OF OPERATIONS

APPROVED January 1, 2021  
*S. E. E. G.*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-02

**TYPE E**

**CONCRETE  
FOUNDATION DETAILS**

(Sheet 2 of 2)

**STANDARD 878001-11**

**Local Public Agency  
Formal Contract Proposal**


**COVER SHEET**

<b>Proposal Submitted By:</b>			
Contractor's Name			
Contractor's Address		City	State    Zip Code

STATE OF ILLINOIS		
Local Public Agency	County	Section Number
City of Urbana	Champaign	21-00633-00-LT
Route(s) (Street/Road Name)		Type of Funds
Mathews Avenue		Local

Proposal Only     Proposal and Plans     Proposal only, plans are separate

Submitted/Approved  
**For Local Public Agency:**

<b>For a Municipal Project</b>	
Submitted/Approved/Passed	
Signature	Date
	6/24/21
Official Title	
Public Works Director & City Engineer	

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

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**Invitation to Bid**  
**SOLICITATION #2021-31**

<p>The following is sought: Sealed bids for the construction of the Mathews Avenue Roadway Lighting Improvements (Section 21-00633-00-LT). Respondents must submit evidence of current prequalification with the Illinois Department of Transportation.</p>
<p>Requesting Department: Public Works Contact Person: Tim Cowan, PE Address: 706 South Glover Avenue, Urbana, Illinois 61802 Telephone No.: 217.384.2342 E-Mail Address: tacowan@urbanaininois.us</p>
<p>Date of Request Posted on City's website: June 29, 2021</p>
<p>Date Published in News-Gazette: June 29, 2021</p>
<p>The original Proposal plus one copy MUST be submitted to the Requesting Department at or before the date and time specified below to receive full consideration.</p> <p>Pre-Proposal Meeting Date: N/A</p> <p>Allowable Means for Transmitting Proposals: Proposal submissions shall be by mail, hand-delivery, or courier service in accordance with Article 4.3.1 of Section 4. Proposal submissions by electronic mail (e-mail) in accordance with Article 4.3.2 of Section 4 shall not be allowed.</p> <p>Proposal Submission/Opening Date: July 13, 2021    Time: 2:00 P.M. Central Time</p> <p>Location for Above: City of Urbana Public Works 706 South Glover Avenue Urbana, Illinois 61802</p>
<p>All Proposals submitted in response to this Request shall be irrevocable for a period of 90 days after the Proposal submission due date and may not be withdrawn by the Respondent during this period. After such time has elapsed, the Respondent may withdraw the proposal if it has not been selected prior to the request to withdraw. Such withdrawal shall be requested in writing.</p>

**PROPOSAL DOCUMENTS ARE AVAILABLE ONLINE AT THE CITY OF URBANA WEBSITE: <https://urbanaininois.us/node/9429>.**

*The City reserves the right to waive technicalities or to accept or reject any proposal or combination of proposals based upon the City's determination of its best interest.*

## 1. **DEFINITIONS:**

“City” shall mean the City of Urbana, Illinois, a municipal corporation and home rule unit of local government.

“Contract” shall mean a written instrument that, once executed by the Successful Respondent and the City, becomes legally binding and enforceable on the City and the Successful Respondent. “Contract” shall also mean any and all exhibits, whether or not labeled as such, which are attached to or incorporated in the instrument by reference that may, but not necessarily, include, the Request, Proposal or a part or portions thereof.

“Project” shall mean the combination of goods and services, labor and materials, hardware and software, or other work that the City seeks to have performed and completed as described in this Request, including but not necessarily limited to, construction, demolition, rehabilitation, and/or installation of Equipment (separate from the purchase of such Equipment).

“Proposal” shall mean any response to this Request that is submitted to the City, including any information appended to or included in such response.

“Request” shall mean this document and all exhibits appended to and/or which are referenced in this document.

“Specifications” shall mean the terms, conditions, and requirements described in this Request.

“Respondent” shall mean any contractor, consultant, professional, or vendor who submits a Proposal in response to this Request.

“Successful Respondent” shall mean the contractor, consultant, professional, or vendor whose Proposal is selected by the City to proceed forward with negotiation for the purpose of arriving at mutually acceptable Contract terms between such person and the City.

“Time” shall mean calendar days, hours, and minutes (Central Time) unless otherwise specified.

## 2. **SPECIFICATIONS:**

See Exhibit A – SUMMARY AND SPECIFICATIONS appended hereto and made a part hereof.

## 3. **RESPONDENT QUESTIONS:**

**3.1. Responsibilities of Respondent:** It shall be the responsibility of each Respondent to be fully familiar with the Specifications, General Instructions and other requirements contained in and included with this Request. No plea of error or ignorance by a Respondent of the Specifications, General Instructions and other requirements shall be accepted.

**3.2. Questions:** All questions pertaining to this Request must be received by the contact person identified on Page 1 of the Request at least five (5) business days prior to the deadline for submission of Proposals.

**3.3. Discrepancies and Omissions:** If a Respondent finds discrepancies or omissions in the Specifications or is in doubt as to the meaning of any requirement or term contained in this Request, the Respondent shall notify the City at least five (5) business days prior to the deadline for submission of the Respondent's Proposal. The City will send written instructions in the form of an addendum to all Respondents that have indicated their interest in submitting a Proposal to the City if the information is deemed necessary by the City for submitting Proposals. The City will not be responsible for any oral instructions. The failure of the Respondent to request clarification prior to submitting a Proposal waives the Respondent's right to claim any ambiguity or discrepancy in the documents or lack of understanding of any term or requirement.

**3.4. Addenda:** If the City deems it appropriate to issue one or more addenda to this Request, the City shall send such addenda to all Respondents that have indicated to the City an interest in submitting a Proposal in response to this Request by registering on the City's website entry for this Request or by notifying the contact person identified above in writing (by e-mail or letter). All such issued addenda shall be deemed a part of this Request. Respondents must acknowledge in their respective Proposals all addenda specifically sent by the City. Failure to acknowledge receipt of addenda may disqualify a Respondent's Proposal from consideration by the City.

**3.5. Contacting City Staff and Officials:** Respondents are prohibited from contacting City staff and any elected or appointed official of the City regarding this Request except as specifically set forth in this Request. Failure to comply with this provision may result in rejection of any or all Proposals.

**3.6. Pre-Proposal Submission Conference:** The City will not convene a pre-Proposal submission conference.

**4. GENERAL INSTRUCTIONS; PROPOSAL CONTENT; FORMAT; SUBMISSION:**

See EXHIBIT B – GENERAL INSTRUCTIONS; PROPOSAL CONTENT; FORMAT; SUBMISSION appended hereto and made a part hereof.

**5. PROPOSAL EVALUATION CRITERIA:**

See EXHIBIT C – EVALUATION CRITERIA appended hereto and made a part hereof.

**6. AWARD OF CONTRACT:**

**6.1. Proposal Guarantee:** All Proposals must be guaranteed and may not be withdrawn until 91 days after the proposal submission due date.

**6.2. Rejection of Proposals:** If a Respondent is not selected as the Successful Respondent as contemplated in this Request, Respondents may withdraw their Proposals.

**6.3. Price:** While it is the City's custom and practice to award a Contract to the Successful Respondent based on lowest Proposal price, if all the Specifications contained in Exhibit A are met in full and without any substitutions, the City has no obligation to select as the Successful Respondent the Respondent that submits the lowest Proposal Price.

## **6.4. Proposal Bond/Security:**

**6.4.1. Acceptable Bond/Security:** Each Proposal shall be accompanied by a bank draft, cashier's check, letter of credit, certified check or proposal bond issued by a licensed surety equal to five percent (5%) of the total value of the Proposal to serve as a Proposal bond. Any check submitted to secure the Proposal must be made payable to the "City of Urbana, Illinois" with the Request number included in the memo part of the check. All security tendered shall be held by City's Finance Department until a Successful Respondent has been selected and Contract documents have been signed or until it is determined that such security shall be returned to the respective Respondents.

### **6.4.2. Return of Bond/Security:**

**6.4.2.1.** To all but the Successful Respondent, upon execution of a Contract between the Successful Respondent and the City.

**6.4.2.2.** To all Respondents upon the City's rejection of all Proposals or termination of the solicitation process without executing any Contract.

**6.4.2.3.** To each Respondent that withdraws his/her Proposal prior to the Proposal public opening date or Proposal submission date specified on Page 1 of this Request, whichever date is later.

In all other instances, the City shall retain the aforesaid security tendered by the Respondents. Further, if the Successful Respondent fails to submit any additional documents in the form and within the date and time requested by the City following selection as the Successful Respondent or fails to execute a Contract to which the Successful Respondent agreed, the City shall retain the Proposal bond/security, not as a penalty, but as liquidated damages. By submission of a Proposal, a Respondent acknowledges the impracticability of calculating the actual damages which would be suffered by the City for the Respondent's failure to comply with the Request and agrees that the sum posted is reasonable.

## **7. CUSTOMER/CLIENT SERVICE:**

The City expects the Successful Respondent to deliver a high level of customer/client service regarding all aspects of the Successful Respondent's performance of his/her obligations and responsibilities as set forth in his/her Contract with the City.

## **8. GENERAL LEGAL MATTERS:**

See EXHIBIT D – GENERAL LEGAL MATTERS and EXHIBIT E – REQUIRED FORMS TO BE COMPLETED AND SUBMITTED WITH PROPOSAL.

**EXHIBIT A**

**SECTION 2 – SUMMARY AND SPECIFICATIONS**

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## EXHIBIT A

### SECTION 2 – SUMMARY AND SPECIFICATIONS

#### **2.1 Summary**

The following special provisions supplement the “Standard Specifications for Road and Bridge Construction” adopted April 1, 2016, the latest edition of the “Illinois Manual on Uniform Traffic Control Devices for Streets and Highways” in effect on the date of invitation for bids, the “Manual of Test Procedures for Materials” in effect on the date of invitation for bids, the “Supplemental Specifications and Recurring Special Provisions” indicated on the Check Sheets included herein, the “Local Roads Special Provisions and Special Details” indicated on the Check Sheet included herein, and the “Bureau of Design and Environment Special Provisions” indicated on the Check Sheet included herein, which apply to and govern the construction of the Mathews Avenue Roadway Lighting Improvements in the City of Urbana, Champaign County, Illinois, and in case of conflict with any part or parts of said documents, the following special provisions shall take precedence and shall govern.

#### **2.2 Specifications**

##### LOCATION AND DESCRIPTION OF WORK

The proposed roadway lighting improvements are located along Mathews Avenue from Oregon Street to Springfield Avenue in the City of Urbana, Champaign County, Illinois. The work under this contract shall consist of:

- Removal and replacement of roadway lighting, lighting controller, and service installation;
- Removal and replacement or restoration of concrete sidewalks, brick paver areas, turf areas, and aggregate areas;
- Restoration of turf areas on Nevada Street from Mathews Avenue to Lincoln Avenue and on Mathews Avenue from Nevada Street to Oregon Street as shown in the landscape plans; and
- Other work necessary to complete the construction as shown in the plans and required by the special provisions.

The work shall include all labor, materials, tools, and equipment necessary for the proper execution and completion of the work as shown in the plans and as specified. It shall also include all work not specifically mentioned but which is reasonably and properly inferable and necessary for the completion of the work.

##### PROJECT COMPLETION DATE

Time is an essential element of the Contract and the Engineer will be monitoring the Contractor’s progress toward completion. The assessment of liquidated damages in accordance with Article 108.09 of the Standard Specifications shall be defined with respect to the following project completion date and not the number of available working days.

The Contractor shall have until **5:00 p.m. on Friday, October 29, 2021** for final completion of all work under this contract. Final completion means that all work described in the plans and special provisions or all work necessary to restore land damaged or impacted by the project shall be accomplished in its entirety. This work includes any and all removal, construction, grading, shaping, landscaping, restoration, and clean up that may be required on the project. Punch list items shall

also be corrected or reconstructed in their entirety prior to final completion. The full amount of liquidated damages specified in Article 108.09 of the Standard Specifications shall be assessed per calendar day in accordance with Article 108.09 of the Standard Specifications should the Contractor fail to complete the specified work on or before **5:00 p.m. on Friday, October 29, 2021**.

The Contractor shall present a project schedule to the City of Urbana for review and approval at the preconstruction conference. The Contractor shall revise the project schedule as directed by the City of Urbana.

## **COMMITMENTS**

There are no commitments for this project.

## **SEQUENCE OF CONSTRUCTION**

The Contractor shall present a traffic control plan to the City of Urbana for review and approval at the preconstruction conference. The Contractor shall be free to propose a construction sequence that is most beneficial to him/her and meets the project completion date and the requirements below. The City of Urbana shall have final approval of the proposed construction sequence.

The Contractor shall maintain pedestrian access along the project corridor and to all buildings within the project limits at all times during construction. The Contractor's traffic control plan and construction sequence shall include these requirements.

All costs that result from adhering to the traffic control plan and construction sequence shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

## **X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL)**

### Description

This work shall consist of providing the necessary traffic control personnel and devices and the installation, maintenance, relocation, and removal of these devices during construction of the improvement. The City of Urbana will be responsible for notifying the public, the United States Postal Service, the Champaign Urbana Mass Transit District, the emergency service agencies, and the University of Illinois of all road closures and changes in the traffic control plan.

### Traffic Control Plan

Traffic control shall be in accordance with the plans, the applicable sections of the Standard Specifications and Supplemental Specifications, the applicable guidelines contained in the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", these special provisions, and the Highway Standards referenced herein and in the plans.

Special attention is called to Articles 107.09, 107.14, 107.15, 107.16, and 107.25 of the Standard Specifications, Sections 701 and 703 of the Standard Specifications, and the following Highway Standards, Supplemental Specifications and Recurring Special Provisions, and Special Plan Details and Notations.



Highway Standards

- 701006 Off-Road Operations, 2L, 2W, 15' to 24" from Pavement Edge
- 701701 Urban Lane Closure, Multilane Intersection
- 701801 Sidewalk, Corner, or Crosswalk Closure
- 701901 Traffic Control Devices

Special Provisions

- LRS 3 Work Zone Traffic Control Surveillance
- LRS 4 Flaggers in Work Zones
- LR 702 Construction and Maintenance Signs

Plan Details

Maintenance of Traffic Notes

Maintenance of Traffic

Roadway lane closures and the conveyance of thru and local traffic within and around the construction zone shall be provided for in accordance with the use of the above referenced Highway Standards as directed by the Engineer. Except as otherwise specified herein, the Contractor shall provide at least one entrance/exit point to the adjacent properties at all times. The Contractor shall not be permitted to close any roadways unless directed otherwise by the Engineer. The Contractor shall submit his/her proposed sequence of operations and traffic control plan to the Engineer for approval before actual construction operations begin.

Removing and Resetting Traffic Signs

This work shall consist of the removal, relocation, and resetting of traffic signs which interfere with construction operations or which are mounted to existing light poles. This work shall also include the removal, relocation, and resetting of existing wood signs, delineators, and other miscellaneous signs which interfere with construction operations. This work shall be performed in accordance with the applicable portions of Article 107.25 of the Standard Specifications and as directed by the Engineer. The Contractor shall remove, temporarily relocate, and/or permanently reset existing signs which interfere with the construction operations. Existing signs mounted on existing light poles shall be removed, stored or temporarily relocated, and reset on proposed light poles as directed by the Engineer.

This work will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed. The Engineer will determine which signs will be removed, temporarily relocated, and permanently reset.

Traffic Control Surveillance

Traffic control surveillance shall be required but will not be paid for separately on this project. Local Roads and Streets Recurring Special Provision LRS 3 "Work Zone Traffic Control Surveillance" shall apply for the inspection of traffic control devices on this project.

Quality of Traffic Control Devices

Traffic Control Devices include signs and their supports, signals, pavement markings, barricades with sand bags, channelizing devices, warning lights, arrow boards, flaggers, or any device used for the purpose of regulating, detouring, warning, or guiding traffic through or around the construction zone.

Only signs, barricades, vertical panels, drums, and cones that meet the requirements of the Department's "Quality Standard for Work Zone Traffic Control Devices 2010" shall be used on this project. Copies of this publication are available from the IDOT website under "Resources". At the time of the initial setup or at the time of major stage changes, one-hundred percent (100%) of each type of device (cones, drums, barricades, vertical panels, or signs) shall be acceptable as defined by the referenced publication. Throughout the duration of the project, the percentage of acceptable devices may decrease to seventy-five percent (75%) only as a result of damage and/or deterioration during the course of the work. Work shall not begin until a determination has been made that the traffic control devices meet the quality required in this standard. The Contractor is required to conduct routine inspections of the work site at a frequency that will allow for the prompt replacement of any traffic control device that has become displaced or damaged to the extent that it no longer conforms to the shape, dimensions, color, and operational requirements of the MUTCD and the Highway Standards, or that it no longer presents a neat appearance to motorists. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.

#### Placement of Traffic Control Signs and Devices

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall immediately remove, cover, or turn from the view of the motorists all traffic control devices which are inconsistent with detour or lane alignment patterns and conflicting conditions during the transition from one construction stage to another. When the Contractor elects to cover conflicting or inappropriate signing materials used, he/she shall totally block out reflectivity of the sign and shall cover the entire sign. The method used for covering the signing shall meet the approval of the Engineer.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed, and maintained by him/her under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

The Contractor shall ensure that all traffic control devices installed by him/her are operational, functional, and effective 24 hours a day, including Sundays and holidays.

#### Solar Powered Arrow Boards

Arrow boards shall be used as required by the Highway Standards and as directed by the Engineer. All arrow boards to be used on this project shall be solar powered. Any additional cost in meeting this requirement shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

#### Construction Signs

Construction signs referring to daytime lane closures during working hours shall be removed, covered, or turned away from the view of motorists during non-working hours.

Flashing lights shall be used on each approach in advance of the work area and in accordance with the details shown on the Highway Standards.

All provisions of Article 107.25 of the Standard Specifications shall apply except the third paragraph shall be revised to read: "The Contractor shall maintain, furnish, and replace at his/her own expense, any traffic sign or post which has been damaged or lost by the Contractor or a third party."

#### Placement and Removal of Signs and Barricades

Placement of all signs and barricades shall proceed in the direction of flow of traffic. Removal of all signs and barricades shall start at the end of the construction areas and proceed toward oncoming traffic unless otherwise directed by the Engineer.

#### Flaggers

Flaggers will not be required for truck or equipment traffic entering or exiting the work zones with the following exceptions:

1. Flaggers shall be required as shown on the Highway Standards and as described herein.
2. Truck traffic and all other construction vehicles or equipment shall give right of way to all other vehicular or pedestrian traffic and obey all traffic laws.
3. Trucks or other construction vehicles shall not park or be stopped for long periods of time in lanes open to traffic. Where there is only one open lane of traffic in each direction, no stopping or parking will be allowed without the approval of the Engineer.
4. The Engineer may request that flaggers be provided if he/she determines unsafe conditions exist requiring the use of flaggers. Any additional cost in meeting this requirement shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

#### Pedestrian Sidewalk Control

The Contractor shall install, maintain, and remove necessary signs, fences, and barricades needed to direct pedestrians to usable sidewalks and walkways during the construction, and as directed by the Engineer. The cost of installing, maintaining, and removing the signs, fences, and barricades shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

At each point of closure, a sufficient number of barricades shall be used to completely close the sidewalk to pedestrian movement. Where construction activities involve sidewalks on both sides of the street, the work shall be staged so that both are not out of service at the same time.

#### Temporary Sidewalks

It is the City's intention to maintain pedestrian access through the project site during construction of the improvement. The Contractor may restrict pedestrian access to the project site during working hours by utilizing Highway Standard 701801. During non-working hours, the Contractor shall allow for pedestrian access through the project site by constructing temporary sidewalks at locations where existing sidewalks have been removed or as directed by the Engineer. The temporary sidewalks shall consist of coarse aggregate gradation CA 6 placed at a compacted depth of 4 inches and to the satisfaction of the Engineer. Furnishing, placing, and compacting the material and the subsequent removal and disposal of the material in accordance with Article 202.03 of the Standard Specifications will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

### Public Safety and Convenience

The Contractor shall provide a telephone number where a responsible individual can be contacted on a 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection. The Contractor shall dispatch personnel, materials, and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Engineer or government agencies concerning any request for improving or correcting traffic control devices and begin making the requested repair within **two (2) hours** from the time of notification.

When traveling in lanes open to public traffic, the Contractor's vehicles shall always move with and not against or across the flow of traffic. These vehicles shall enter or leave work areas in a manner which will not be hazardous to or interfere with traffic and shall not park or stop except within areas designated by the Engineer.

The Contractor shall not be allowed to park personal vehicles within the right-of-way. The Contractor shall provide for off-site parking of his/her personal vehicles.

The Contractor shall maintain entrances and side roads along the proposed improvement. Interference with traffic movements and inconvenience to owners of abutting property and the public shall be kept to a minimum. Any delays or inconveniences caused to the Contractor by complying with these requirements will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

### Compliance with Parking Regulations

While actual construction work is in progress, vehicles necessary for the production of the work may temporarily park or stop in locations in the immediate vicinity of the work site. Vehicles and equipment include those vehicles and equipment owned or leased by the Contractor and his/her employees which are actively used in the construction activity. This exemption does not apply to any vehicle or equipment which is not essential to the actual progress of the construction. An example of a vehicle not essential to the actual progress of the construction is a vehicle owned by the employee of the Contractor used to transport the employee to the job site or his/her home but not used to carry tools actively used on the project site. These vehicles must be parked according to posted regulations and are subject to any meter fees.

### Construction Staging Requirements

Lane closures and the conveyance of local traffic within and around the construction zone shall be provided for in accordance with the above referenced Highway Standards and as directed by the Engineer. The Contractor shall submit his/her proposed sequence of operations to the Engineer for approval before actual construction operations begin.

All traffic control devices and barricades throughout the project shall remain in place until the entire project is substantially complete, or as otherwise directed by the Engineer.

### Brooming of Roadway

All traffic lanes which are closed to through traffic during construction shall be broomed or swept free of all loose gravel or construction debris before the traffic lane is reopened to traffic. All roadway surface conditions shall be approved by the Engineer before they are opened to traffic. This work will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

### Brooming of Pedestrian Routes

All pedestrian routes which are closed during construction operations shall be broomed or swept free of all loose gravel or construction debris before the pedestrian routes are reopened. All pedestrian route surface conditions shall be approved by the Engineer before they are opened. This work will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

### Basis of Payment

All work prescribed and referenced herein will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION, (SPECIAL). This price shall be considered payment in full for all labor, materials, transportation, handling, and incidental work necessary to furnish, install, relocate, maintain, and remove all traffic control devices and signs as required by the plans and Highway Standards and as directed and approved by the Engineer, for the duration of the contract. No separate payment will be made for complying with the provisions of Highway Standards 701006, 701701, 701801, and 701901. Article 701.20 of the Standard Specifications is revised in that no additional payment will be made for furnishing, installing, maintaining, and removing additional traffic control devices or signs from those shown on the plans or as directed by the Engineer.

The cost of furnishing, placing, compacting, maintaining, removing, and disposing of coarse aggregate for temporary sidewalks will not be paid for separately but shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, (SPECIAL), and no additional compensation will be allowed.

### **BUILDING AWNINGS/FACADES**

The Contractor's attention is called to the existing building façades, overhangs, signs and awnings along the project corridor which may extend into the public right-of-way and at a height which may interfere with construction operations. The Contractor shall be held responsible for any damage to these features during construction. The Contractor and the Engineer shall conduct a pre-condition survey prior to construction with a written and photo log summary of pre-construction conditions. Any awnings or overhangs which interfere with construction shall be removed and reinstalled with the written approval of the building owner or authorized representative. This work, if required, will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

### **CONSTRUCTION ON PRIVATE PROPERTY**

Whenever excavation is made within a temporary or permanent construction easement on private property for construction activities, the topsoil disturbed by the excavation operations shall be restored as nearly as possible to its original position, and the whole area involved in the construction operation shall be left in a neat and presentable condition. The Contractor shall use reasonable care to avoid disturbing portions of private property not necessary to the construction operations. If, in the judgment of the Engineer, areas are disturbed unnecessarily, the Contractor shall restore these areas as directed by the Engineer and at his/her own expense. The Contractor shall not pile excavated material outside the limits of the right-of-way upon adjacent private property without the written consent of the property owner and the Engineer. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

## **COOPERATION WITH UTILITY OWNERS**

The Contractor shall be responsible for working with the utility owners to investigate potential conflicts between the existing utilities and the proposed improvements and to avoid such conflicts where possible. This effort may include, but is not limited to, utility potholing by the Contractor at various locations throughout the project limits. The utility companies may be adjusting or relocating their facilities during construction of the proposed improvements. The Contractor shall be responsible for coordinating and cooperating with the utility owners while they perform their work in accordance with Article 105.07 of the Standard Specifications and as directed by the Engineer. The Contractor shall notify the Engineer immediately if the utility owners are not responsive to performing their work in a timely manner.

Potholing will be allowed in the existing pavement. All holes shall be filled with flowable fill and then the pavement shall be patched with portland cement concrete. All holes shall have no less than a 2-foot by 2-foot patch. If the hole is near a joint or if multiple holes are needed within one pavement panel, it will be up to the Engineer to determine the minimum amount of patching required. The Contractor shall restore all utility pothole locations to the satisfaction of the Engineer. The Engineer shall be the sole judge regarding the restoration methods allowed for utility pothole locations.

Any costs associated with these requirements or for delays in the project, including all costs for utility potholing and all subsequent restoration, will not be considered for payment, and no additional compensation will be allowed.

## **UNIVERSITY OF ILLINOIS SERVED UTILITIES**

The University of Illinois owns and operates several utilities within the proposed construction limits of this project. These utilities may include but are not limited to: water, sanitary sewer, storm sewer, chilled water (supply and return system), steam distribution, compressed air, electric, helium, lighting, and telecommunications. No University of Illinois utility service shall be interrupted, adjusted, or relocated without written permission from the University of Illinois, Utility Distribution staff. The Contractor shall obtain written permission from the University of Illinois, Utility Distribution, before any work is started. When interruption of services is required, the Contractor shall inform the University at least five days in advance and coordinate a time that is agreed by all parties. The Facilities and Services, Service Office, 217-333-0340, shall be the point of contact for all utility issues, including outages or emergency incidents. This number provides 24/7/365 access for callers. Damage of any kind, including scratches or dents, no matter how small or minor shall be reported immediately to the Service Office and JULIE, as required by State Law. The cost of complying with these requirements will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

## **CUTTING EXISTING PAVEMENT, SIDEWALK, OR CURB AND GUTTER**

At locations where it is necessary to cut asphalt surfaces, concrete pavement, concrete or asphalt driveway pavement, concrete sidewalk, or concrete curb and gutter, where it will abut the proposed new construction, a uniformly straight cut shall be obtained by the use of a diamond concrete saw. The use of pneumatic tools to make these cuts will not be allowed. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

## **HAND GRADING**

Grading shall be done by hand around light poles, utility poles, sign posts, shrubs, trees, or other natural or man-made objects where shallow fills or cuts are adjacent to the items. It is the intent that the limits of construction be such as to preserve in its original state as much of the project area as possible. The decision as to items to remain in place shall be as directed by the Engineer. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

## **EARTH EXCAVATION**

All earth excavation necessary for the construction of the improvements will not be paid for separately but shall be included in the cost of the individual pay item requiring excavation, and no additional compensation will be allowed. All surplus excavation shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications. The Contractor is encouraged to recycle any materials that can be recycled, such as concrete, asphalt, and metals. The cost of all excavation, transportation, and placement, recycling, or disposal of the excavated material shall be included in the cost of the individual pay item requiring excavation, and no additional compensation will be allowed.

## **EXISTING TREES AND SHRUBS**

Existing trees and shrubs in the areas of construction activities shall be protected from damage in accordance with the City of Urbana Right-of-Way Standard Drawing "Tree Protection Zone" and as directed by the Engineer. This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

Existing tree stumps that interfere with the proposed construction shall be removed in accordance with Section 201 of the Standard Specifications and as directed by the Engineer. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

Tree pruning shall be performed by a certified arborist at the Contractor's expense. All trees requiring pruning shall be pre-inspected via an onsite meeting with the certified arborist and representatives from both the City of Urbana and the University of Illinois. This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

The Protected Root Zone (PRZ) of a tree shall be defined as the entire ground area within the dripline of a tree. Utility installations that require trenching and tunneling within the PRZ shall be performed as follows:

- a. In accordance with the City of Urbana Right-of-Way Standard Drawing "Tree Protection Zone". Trenches shall be in line with tree trunk whenever possible.
- b. All trench sides likely to have bisecting roots shall be targeted for pre-excavation root pruning.
- c. Trenches shall be immediately backfilled after construction completion, as determined by the Engineer, to prevent drying out of roots.

This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

Root pruning shall be performed as follows:

- a. Only roots that will interfere with construction operations shall be cut.
- b. Roots larger than a 2 inch diameter shall not be pruned without prior approval by the City Arborist.
- c. Roots shall be pruned 6 inches closer to the tree than the limits of excavation. The depth of root pruning shall be the smaller of the depth of the planned excavation or 24 inches.
- d. Roots shall be pruned between October 15 and June 15, when the trees are dormant, whenever possible.
- e. Excavation within the PRZ shall be conducted by hand, with the use of an approved Air Spade, an approved wet vacuum, or other approved similar equipment.
- f. Roots shall be cut off cleanly by hand or by an approved mechanical root pruning saw specifically designed to cleanly cut roots. This work shall be performed prior to excavation where noted on the plans, or as directed by the Engineer. Whenever roots of plant material to remain are exposed during construction, the damaged root ends are to be removed by cutting them off cleanly. Axes, other such chopping tools, shovels, or other tools designed for digging shall not be used to cut roots.
- g. Pruning shall be done in the presence of the Engineer and in such a manner as to preserve the natural growth habit of each plant.

This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

The Contractor shall be liable for damage to trees and shrubs intended to be saved, unless such damage is determined by the Engineer to have been unavoidable. Such trees or shrubs shall immediately be repaired or replaced in accordance with Article 201.07 of the Standard Specifications and as directed by the Engineer. This work will not be considered for payment, and no additional compensation will be allowed.

### **METERED PARKING SPACES**

Any metered parking spaces that will be taken out of service by construction activities shall be coordinated with the City of Urbana no less than 72 hours in advance of the work. The Contractor must have written permission from City engineering staff prior to impacting the metered parking spaces. This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

### **PRESERVING PROPERTY MARKERS**

The Contractor shall locate the existing property corner markers along this section. Any such monuments unnecessarily destroyed by the Contractor's operations shall be replaced by a registered Illinois Land Surveyor at the Contractor's expense. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

### **REMOVAL OF UNCLASSIFIED MATERIALS**

Debris or unclassified materials shall be removed at the locations shown on the plans or as directed by the Engineer. The materials that are removed shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications or as otherwise directed by the Engineer. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.



## **ROADWAY LIGHTING**

The existing lighting system shall remain in service for as long as possible during construction as directed by the Engineer. Roadway lighting shall not be out of service for more than thirty (30) consecutive calendar days without a written request from the Contractor and approval from the City of Urbana. This work will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

## **SALVAGEABLE MATERIALS**

All materials deemed salvageable by the Engineer shall remain the property of the City of Urbana and shall be stored on the job site as directed by the Engineer. Any materials that the Engineer determines should not be salvaged shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications or as otherwise directed by the Engineer. This work will not be paid for separately but shall be included in the cost of the various removal pay items, and no additional compensation will be allowed.

## **STOCKPILE AREAS**

Short-term stockpile of topsoil, backfill, and aggregate material will be allowed only where directed by the Engineer. Temporary stockpiles of materials shall not interfere with local and through traffic or pedestrian access. Stockpiles of materials shall not be allowed outside the limits of the right-of-way on private property (unless permission is granted by the property owner and the Engineer in writing) and shall not be allowed to block driveways or sidewalks. Any turf area that is damaged by stockpiled material shall be repaired with sod as directed by the Engineer. These areas will not be measured for payment, and the Contractor shall repair them at his/her own expense. No additional compensation will be allowed.

## **CONSTRUCTION AND MAINTENANCE NOISE**

All engines and engine driven equipment used for hauling or construction shall be equipped with an adequate muffler in constant operation and properly maintained to prevent excessive or unusual noise.

Construction within 600 feet of any residence, hospital, or place of worship shall be confined to the period between the hours of 7:00 a.m. and 8:00 p.m. Monday through Saturday and 12:00 p.m. and 8:00 p.m. Sunday. This time regulation shall not apply to sawing contraction joints, maintenance or operation of safety and traffic control devices such as barricades, signs, and lighting, or to construction of an emergency nature.

Any arrow boards used for traffic control that are to remain in place overnight shall be of a non-motorized type to eliminate noise and comply with the City's Ordinance.

Exception: Any machine or device or part thereof which is regulated by or becomes regulated by Federal or State of Illinois noise standards shall conform to those above standards. Such equipment shall be operated as designated above.

Requests to modify or deviate from these requirements shall be submitted in writing to the Engineer by the Contractor and must be approved in writing by the Engineer.

The cost of complying with these requirements will not be paid for separately but shall be included in the cost of the various contract pay items, and no additional compensation will be allowed.

**44000600     SIDEWALK REMOVAL**

Description

This work shall consist of the complete removal of existing concrete sidewalk in accordance with Section 440 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The limits of sidewalk removal required for the removal and/or installation of light poles, junction boxes, and lighting controllers are not shown in the plans. Estimated quantities for this work are included in the plans based on the limits described in the "Removal and Replacement Notes" in the plans.

Basis of Payment

This work will be paid for at the contract unit price per square foot for SIDEWALK REMOVAL, which price shall include all labor, equipment, and material necessary to complete the work as specified.

**81028350     UNDERGROUND CONDUIT, PVC, 2" DIA.**

Description

This work shall consist of furnishing and installing conduit of the type and size specified in accordance with Section 810 of the Standard Specifications and the following additions or exceptions.

All conduits installed below pavement shall be Schedule 80 unless otherwise directed by the Engineer.

When PVC conduit is required to be spliced to steel conduit sections, a heavy wall set screw connector with PVC female adapter shall be installed and sealed by duct seal and plastic tape.

Intercepting existing conduit, including all required adapters, will not be paid for separately but shall be included in the cost of the respective conduit pay item, and no additional compensation will be allowed.

A ¼" polypropylene pull rope shall be installed in all conduit runs. A minimum of 2 feet of rope shall be provided at each end of a conduit run.

Basis of Payment

This work will be paid for at the contract unit price per foot for UNDERGROUND CONDUIT, PVC, 2" DIA., which price shall include all labor, equipment, and material necessary to complete the work as specified.

Backfilling of conduit trenches with earth, screenings/sand, or controlled low-strength material will not be paid for separately but shall be included in the cost of the respective conduit pay item, and no additional compensation will be allowed.

**81028750 UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.**

Description

This work shall consist of furnishing and installing conduit of the type and size specified in accordance with Section 810 of the Standard Specifications and the following additions or exceptions.

All conduits installed below pavement shall be Schedule 80 unless otherwise directed by the Engineer.

When HDPE conduit is required to be spliced to steel conduit sections, a suitable threaded connector shall be installed.

Intercepting existing conduit, including all required adapters, will not be paid for separately but shall be included in the cost of the respective conduit pay item, and no additional compensation will be allowed.

A ¼" polypropylene pull rope shall be installed in all conduit runs. A minimum of 2 feet of rope shall be provided at each end of a conduit run.

Basis of Payment

This work will be paid for at the contract unit price per foot for UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA., which price shall include all labor, equipment, and material necessary to complete the work as specified.

Backfilling of conduit trenches with earth, screenings/sand, or controlled low-strength material will not be paid for separately but shall be included in the cost of the respective conduit pay item, and no additional compensation will be allowed.

**81500120 GULFBOX JUNCTION, COMPOSITE CONCRETE**

Description

This work shall consist of furnishing and installing a gulfbox junction in accordance with Section 815 of the Standard Specifications and the following additions or exceptions.

The gulfbox shall be composite concrete and manufactured by Armorcast Products Company or approved equivalent. The gulfbox dimensions shall be 13"W x 24"L x 12"D. The gulfbox cover shall be constructed of the same material as the gulfbox. The gulfbox cover and collar shall be standard concrete grey color in sidewalks and shall be the manufacturer's dark green color in grass areas.

Gulfboxes used for the roadway lighting system shall have the words "STREET LIGHTING" cast into the cover.

Basis of Payment

This work will be paid for at the contract unit price each for GULFBOX JUNCTION, COMPOSITE CONCRETE, which price shall include all labor, equipment, and material necessary to complete the work as specified.

<b>81702110</b>	<b>ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10</b>
<b>81702140</b>	<b>ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4</b>
<b>81702145</b>	<b>ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3</b>
<b>81702170</b>	<b>ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0</b>

Description

This work shall be performed in accordance with Section 817 of the Standard Specifications and the following additions or exceptions.

Revise the second sentence of the first paragraph of Article 1066.02 to read:

“The cable shall be rated at a minimum of 90°C dry and 75°C wet, shall be suitable for installation in wet and dry locations, and shall be resistant to oils and chemicals.”

Add the following to Article 1066.03 of the Standard Specifications:

“The cable shall be rated 600 volts and shall be UL Listed Type RHH/RHW/USE.”

All electric cable shall be tagged with wiring identification markers at each point of access. All handholes, gulfbox junctions, junction boxes, pole handholes, and controller cabinets shall be considered as points of access. Wiring identification markers shall be in accordance with Article 1066.07 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price per foot for ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C, of the size specified, which price shall include all labor, equipment, and material necessary to complete the work as specified.

**83000400 LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM**

Description

This work shall consist of furnishing and installing davit arm light poles, complete with all hardware and accessories, in accordance with Section 830 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Materials

The light pole shall consist of a round tapered 4 bolt anchor base pole with minimum 4 foot radius curved davit arm(s). Light poles shall be manufactured by Hapco or Valmont.

All poles shall be designed and manufactured to withstand the increased wind load generated by the installation of banners 30 inches wide by 72 inches high with a mounting height of 15 feet to the bottom of the banner bracket. Poles with a single davit shall include one banner. The Contractor or the pole manufacturer shall submit a letter signed and sealed by an Illinois Licensed Structural Engineer stating that the poles can withstand the increased wind load generated by the installation of banners on the poles. The minimum wall thickness specified below is a minimum thickness. The Contractor shall increase wall thickness as required to withstand wind loading. Banner arms shall not be included with the poles but will be furnished and installed by others.

The pole shaft shall be spun tapered from all new seamless 6063 alloy aluminum tubing and shall be heat treated to T6 temper, with an 8 inch outside diameter at the pole base for a 30 foot mounting height. The pole wall thickness shall be 0.188 inch minimum for single davit arm poles and shall be increased as required to withstand wind loading. Each shaft shall have a specially tapered pole top tenon to accept the davit arm(s). The pole shaft shall be fitted with an internally mounted vibration damper.

The davit arm member(s) shall be conically tapered from 4½ inch outside diameter to 2¾ inch outside diameter with a minimum 0.188 inch wall 6063 alloy extruded aluminum tube. The fixture end of the arm(s) shall be a 2¾ inch outside diameter (2 inch pipe size) tenon. The davit arm(s) shall have an 8 foot 11 inch rise and a 10 foot span providing a + 3 degree tilt. The davit arm(s) shall slip into a tapered pole top tenon and be fastened with two stainless steel ⅝ inch through bolts.

The pole shall include a peripherally reinforced flush covered handhole centered 18 inches above the bottom of the base. The handhole cover shall match the pole finish and be secured with stainless steel Allenhead (not pinned) fasteners. The handhole opening shall be oriented 180 degrees from the single davit arm.

The anchor base shall be cast from A356 alloy aluminum. The anchor base shall be heat treated to a T6 condition. The anchor base casting and shaft shall be joined by a continuous circumferential weld at the outside top and inside bottom of the anchor base. The completed assembly shall be heat treated to a T6 temper after all structural welding is completed. Nut covers manufactured from A356 alloy aluminum shall be included with each anchor base. Bolt openings shall be slotted to accommodate an 11 inch to 12 inch bolt circle for an 8 inch outside diameter at the pole base.

The davit arm(s), aluminum pole, and all mounting hardware shall have a factory applied powder coating, black in color. Powder coated poles shall be polyester powder coated in a smooth black finish with a UV resistant powder designed for outdoor use without color fade. The polyester powder coating process shall have pre-treatment steps that ensure complete cleaning and adherence of the coating materials. The polyester powder coating shall be electrostatically applied thermosetting polyester resin powder coating to a minimum thickness of 100 microns. The manufacturer shall coat poles in its own facility. Out-sourcing of the powder coating process shall not be allowed.

The standard product warranty for the davit arm light poles and accessories shall be full parts and labor at the job site for one-year following the date of final completion. In addition to the standard product warranty, all surfaces featuring a powder-coat finish shall carry a full 5-year Finish Warranty. The coatings on all new poles shall carry this 5-year Finish Warranty from the date of shipment. The Finish Warranty shall provide for the full cost of refinishing in the event of a coating failure. The Contractor or the pole manufacturer shall submit full warranty information with a specific letter for this work, detailing the warranty terms and conditions in accordance with this special provision. The Finish Warranty shall provide protection against:

1. Peeling and Cracking.
2. Fading and Tint: UV damage and fading of more than 5% of the original color (tint).
3. Discoloration: Discoloration in excess of 5 E units (CIE 1976 CIELAB) as measured using procedure ASTM D 2244, latest revision, comparing an unexposed sample to an exposed surface after removal of dirt and chalk.
4. Gloss retention: In accordance with procedure ASTM D 523, latest revision, comparing an unexposed sample to an exposed surface after removal of dirt and chalk.

5. Corrosion and lack of adhesion: Corrosion and lack of adhesion as measured using procedure ASTM D 610, latest revision, based on the complete product assembly (for the purpose of this warranty, this procedure applies to both aluminum and steel).

Poles shall be delivered with a factory applied shipping wrap of cardboard or other material to fully protect against scratches and coating stain. Poles shall be blocked and bundled in groups of multiple poles, or use other equivalent means to prevent shifting and damage during transport.

The Contractor shall provide a sticker permanently attached to the light pole below the handhole indicating the circuit and pole number as shown on the plans. After assembly, a stainless steel mesh shall be placed to enclose the void between the foundation and the pole base as specified in Article 877.03 of the Standard Specifications. The stainless steel mesh and band at the pole base shall be painted black.

#### Basis of Payment

This work will be paid for at the contract unit price each for LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM, which price shall include all labor, equipment, and material necessary to complete the work as specified.

### **83600200 LIGHT POLE FOUNDATION, 24" DIAMETER**

#### Description

This work shall consist of constructing a concrete light pole foundation in accordance with Section 836 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

All concrete, reinforcement bars, anchor bolts, conduit, and drilling required to construct the foundation shall be included in the cost of the light pole foundation.

The Contractor shall coordinate the bolt circle diameter of the foundation with the light poles to be installed on the foundation.

The top of the foundation shall be 4" above the finished grade line in turf areas or 1" above the finished grade line in paved areas. The top of the foundation shall be formed circular with a 24" diameter to a minimum depth of 15" below the finished grade line. Refer to the details in the plans for additional information.

If the foundation is to be constructed in a brick paver area, then the top of the foundation shall be formed as a 24" x 24" square to a minimum depth of 15" below the finished grade line. Expansion joints shall be placed between the pavers and the foundation in accordance with Article 424.07 of the Standard Specifications. This work will not be paid for separately but shall be included in the cost of the light pole foundation, and no additional compensation will be allowed. Refer to the details in the plans for additional information.

The grounding electrode for the foundation shall be installed in the junction box adjacent to the foundation to be provided for the light pole. Refer to the specification for JUNCTION BOX (SPECIAL) for additional information.

Basis of Payment

This work will be paid for at the contract unit price per foot for LIGHT POLE FOUNDATION, 24" DIAMETER, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all anchor bolts. The grounding electrode for the foundation shall be included in the cost of the junction box adjacent to the foundation.

**84200600      REMOVAL OF LIGHTING UNIT, NO SALVAGE**

Description

This work shall consist of the removal and disposal of existing lighting units in accordance with Section 842 of the Standard Specifications and the following additions or exceptions.

Removal of existing lighting units shall include the light pole, arm, luminaire, pole wiring, and associated hardware and appurtenances. Existing lighting units shall become the property of the Contractor and shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications.

Removal of Direct Embed Poles

Portions of the existing cables and conduits that interfere in any way with the proposed construction shall be removed. Existing cables that do not interfere with the proposed construction shall be abandoned in place unless otherwise directed by the Engineer. Existing conduits that do not interfere with the proposed construction shall be capped and abandoned in place unless otherwise directed by the Engineer. Removal of the existing cables and conduits will not be paid for separately but shall be included in the cost of the lighting unit removal, and no additional compensation will be allowed.

Voids created by the removal of direct embed poles shall be backfilled with controlled low-strength material unless otherwise directed by the Engineer. All required excavation and backfill shall be included in the cost of the lighting unit removal, and no additional compensation will be allowed.

Basis of Payment

This work will be paid for at the contract unit price each for REMOVAL OF LIGHTING UNIT, NO SALVAGE, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all excavation and backfill.

**84200804      REMOVAL OF POLE FOUNDATION**

Description

This work shall consist of the removal and disposal of existing light pole foundations in accordance with Section 842 of the Standard Specifications and the following additions or exceptions.

Concrete foundations shall be removed to a point at least two feet below grade or at least one foot below any proposed construction. All portions of the existing foundation below this elevation that interfere in any way with the proposed construction shall be removed to the satisfaction of the Engineer, and no additional compensation will be allowed. Concrete foundations shall not be removed in their entirety without prior approval from the Engineer. Removed material shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications.

Steel helix foundations shall be removed and cleaned to expose the foundation for inspection by the Engineer. Those foundations deemed not reusable by the Engineer shall become the property of the Contractor and shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications. Those foundations deemed reusable by the Engineer shall remain the property of the City of Urbana and shall be delivered by the Contractor to a location designated by the Engineer.

Portions of the existing cables and conduits that interfere in any way with the proposed construction shall be removed. Existing cables that do not interfere with the proposed construction shall be abandoned in place unless otherwise directed by the Engineer. Existing conduits that do not interfere with the proposed construction shall be capped and abandoned in place unless otherwise directed by the Engineer. Removal of the existing cables and conduits will not be paid for separately but shall be included in the cost of Removal of Pole Foundation, and no additional compensation will be allowed.

Voids created by the removals shall be backfilled with controlled low-strength material unless otherwise directed by the Engineer. All required excavation and backfill shall be included in the cost of Removal of Pole Foundation, and no additional compensation will be allowed.

Basis of Payment

This work will be paid for at the contract unit price each for REMOVAL OF POLE FOUNDATION, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all excavation and backfill.

**84500110      REMOVAL OF LIGHTING CONTROLLER**

Description

This work shall consist of the removal of an existing pole-mounted series lighting controller in accordance with Section 845 of the Standard Specifications and the following additions or exceptions.

The Contractor shall coordinate with the City of Urbana and Ameren Illinois for disconnection of the existing series lighting controller. The Contractor shall remove the series lighting controller and switchgear, including the oil switch, constant current transformer, circuit protector, and Hand-Off-Auto switch enclosure.

The Contractor shall remove the existing underground cables for the series lighting controller as shown in the plans. Removal of the existing cables will not be paid for separately but shall be included in the cost of Removal of Lighting Controller, and no additional compensation will be allowed.

The existing series lighting controller and switchgear shall remain the property of the City of Urbana and after removal shall be delivered by the Contractor to the Public Works Facility at 706 South Glover Avenue, Urbana, IL.

Basis of Payment

This work will be paid for at the contract unit price each for REMOVAL OF LIGHTING CONTROLLER, which price shall include all labor, equipment, and material necessary to complete the work as specified.



**84500120    REMOVAL OF ELECTRIC SERVICE INSTALLATION**

Description

This work shall consist of the removal and disposal of an existing electric service installation in accordance with Section 845 of the Standard Specifications and the following additions or exceptions.

The Contractor shall coordinate with the City of Urbana and Ameren Illinois for disconnection of the existing electric service installation. The Contractor shall dispose of the removed equipment in accordance with Article 202.03 of the Standard Specifications.

Basis of Payment

This work will be paid for at the contract unit price each for REMOVAL OF ELECTRIC SERVICE INSTALLATION, which price shall include all labor, equipment, and material necessary to complete the work as specified.

**X0327611    REMOVE AND REINSTALL BRICK PAVER**

Description

This work shall consist of removing existing brick pavers, salvaging the brick pavers, and reinstalling the brick pavers on an aggregate base course in accordance with the applicable portions of Recurring Special Provision LRS 14 and the following additions or exceptions.

The limits of brick paver removal and reinstallation required for the removal and/or installation of light poles, junction boxes, and lighting controllers are not shown in the plans. Estimated quantities for this work are included in the plans based on the limits described in the "Removal and Replacement Notes" in the plans.

The Contractor shall remove, store, and reinstall the existing brick pavers in a workmanlike manner to avoid damaging the material. Pavers which are damaged by construction operations shall be replaced by the Contractor as directed by the Engineer and at the Contractor's expense. The Engineer will determine if the removed pavers are suitable for reinstallation. If necessary, the existing pavers shall be cleaned before reinstallation as directed by the Engineer. Any new pavers required for the work shall be according to Recurring Special Provision LRS 14 and shall match the existing pavers.

The existing brick pavers shall be installed on a compacted Type B aggregate base course with a minimum thickness of 4" in accordance with Section 351 of the Standard Specifications. The pavers shall be set on a 1" to 1.5" fine aggregate bedding course placed on top of the aggregate base course. The pattern of the proposed brick paver field shall match the pattern of the adjacent brick paver field. The proposed locations for the brick pavers might not be the same as their original locations.

Basis of Payment

This work will be paid for at the contract unit price per square foot for REMOVE AND REINSTALL BRICK PAVER, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all removal, transportation, storage, cleaning, and reinstallation of the brick pavers and all aggregate base and bedding material.

**X4020900 AGGREGATE SURFACE COURSE, TYPE B SPECIAL**

Description

This work shall consist of furnishing, placing, and compacting Type B aggregate surface course in accordance with Section 402 of the Standard Specifications and the following additions or exceptions.

The limits of aggregate surface course required for the removal and/or installation of light poles, junction boxes, and lighting controllers are not shown in the plans. Estimated quantities for this work are included in the plans based on the limits described in the "Removal and Replacement Notes" in the plans.

The minimum thickness of the aggregate surface course shall be six inches unless otherwise directed by the Engineer.

Basis of Payment

This work will be paid for at the contract unit price per square yard for AGGREGATE SURFACE COURSE, TYPE B SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all excavation and ground preparation.

The Contractor is advised that payment for aggregate surface course will only be made for those areas which are necessarily disturbed by construction operations as determined by the Engineer. Aggregate areas which are unnecessarily disturbed by construction operations shall be restored by the Contractor as directed by the Engineer and at the Contractor's expense.

**X4240440 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL**

Description

This work shall consist of constructing portland cement concrete sidewalk in accordance with Section 424 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

The limits of sidewalk installation required for the removal and/or installation of light poles, junction boxes, and lighting controllers are not shown in the plans. Estimated quantities for this work are included in the plans based on the limits described in the "Removal and Replacement Notes" in the plans.

The minimum thickness of the proposed sidewalk shall be six inches. If the thickness of the existing sidewalk adjacent to the proposed sidewalk is greater than six inches, then the proposed sidewalk shall be constructed to match the thickness of the existing sidewalk. The additional thickness of the proposed sidewalk required to match the thickness of the existing sidewalk will not be paid for separately but shall be included in the cost of the proposed sidewalk, and no additional compensation will be allowed.

Where existing sidewalks with stamped utility information are to be removed, the proposed sidewalks shall include the same stamped utility information. The proposed stamps shall match the text size and legend of the existing stamps. The work required for the proposed stamped utility information will not be paid for separately but shall be included in the cost of the proposed sidewalk, and no additional compensation will be allowed.

If it becomes necessary to replace sidewalk curb ramps, the detectable warnings required for the new curb ramps will not be paid for separately but shall be included in the cost of the proposed sidewalk, and no additional compensation will be allowed. The sidewalk curb ramps shall be constructed in accordance with the applicable Highway Standards and as directed by the Engineer. The product used for the detectable warnings shall be in accordance with Article 424.09 of the Standard Specifications and shall require approval from the Engineer.

If it becomes necessary to adjust the frame and lid of an existing drainage or utility structure located in a proposed sidewalk area, the adjustment will not be paid for separately but shall be included in the cost of the proposed sidewalk, and no additional compensation will be allowed. The frame and lid adjustment shall be performed in accordance with the applicable portions of Section 603 of the Standard Specifications and as directed by the Engineer.

#### Basis of Payment

This work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all required additional sidewalk thickness, stamped utility information, detectable warnings, and frame and lid adjustments.

### **X8040102 ELECTRIC SERVICE INSTALLATION, SPECIAL**

#### Description

This work shall consist of installing an electric service installation in accordance with Section 804 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

#### Materials

The Contractor shall provide a meter socket in accordance with Ameren Illinois requirements. Service size shall be as shown in the plans.

The Contractor shall provide a service disconnect switch in accordance with Article 1086.01 of the Standard Specifications and the details in the plans.

The Contractor shall provide the vertical PVC conduit with weatherhead and service wiring at the existing utility pole per Ameren Illinois requirements and the ELECTRIC SERVICE INSTALLATION, SPECIAL DIAGRAM in the plans.

The Contractor shall be responsible for coordinating all requirements for the electric service installation with Ameren Illinois and shall adhere to latest standards as provided by Ameren Illinois.

The Contractor shall coordinate all requirements and fees for the electric service installation with Ameren Illinois. No additional compensation will be allowed for work required for the electric service or utility connection fees, even though not explicitly shown in the plans or specified herein.

#### Basis of Payment

This work will be paid for at the contract unit price each for ELECTRIC SERVICE INSTALLATION, SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified, including the meter socket, service disconnect switch, ground rod, vertical PVC conduit with weatherhead, service wiring, and other equipment required by the utility company. The underground service conduit and service conductors from the utility pole to the utility meter base will be paid for separately.

**X8130110 JUNCTION BOX (SPECIAL)**

Description

This work shall consist of furnishing and installing a junction box in accordance with Section 815 of the Standard Specifications and the following additions or exceptions.

The junction box shall be composite concrete and manufactured by Armorcast Products Company or approved equivalent. The junction box dimensions shall be 12"W x 12"L x 12"D. The junction box cover shall be constructed of the same material as the junction box. The junction box cover and collar shall be standard concrete grey color in sidewalks and shall be the manufacturer's dark green color in grass areas.

Junction boxes used for the roadway lighting system shall have the words "STREET LIGHTING" cast into the cover.

The grounding electrode for the light pole foundation shall be installed in the junction box adjacent to the foundation to be provided for the light pole. The grounding electrode shall be a 5/8" diameter x 10' long copper-clad steel ground rod in accordance with Section 806 of the Standard Specifications. The grounding electrode conductor shall be connected by hydraulic crimp connections to the grounding electrode in the junction box.

Basis of Payment

This work will be paid for at the contract unit price each for JUNCTION BOX (SPECIAL), which price shall include all labor, equipment, and material necessary to complete the work as specified. The grounding electrode and hydraulic crimp connections shall be included in the cost of the junction box.

**X8130125 REMOVE EXISTING JUNCTION BOX**

Description

This work shall consist of the removal and disposal of existing junction boxes in accordance with the applicable portions of Section 895 of the Standard Specifications and the following additions or exceptions.

The junction box shall be removed in its entirety. Portions of the existing cables and conduits that interfere in any way with the proposed construction shall be removed. Existing cables that do not interfere with the proposed construction shall be abandoned in place unless otherwise directed by the Engineer. Existing conduits that do not interfere with the proposed construction shall be capped and abandoned in place unless otherwise directed by the Engineer. Removal of the existing cables and conduits will not be paid for separately but shall be included in the cost of Remove Existing Junction Box, and no additional compensation will be allowed.

Removed material shall be disposed of by the Contractor in accordance with Article 202.03 of the Standard Specifications.

Voids created by the removals shall be backfilled with controlled low-strength material unless otherwise directed by the Engineer. All required excavation and backfill shall be included in the cost of Remove Existing Junction Box, and no additional compensation will be allowed.

### Basis of Payment

This work will be paid for at the contract unit price each for REMOVE EXISTING JUNCTION BOX, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all excavation and backfill.

## **X8250505 LIGHTING CONTROLLER, SPECIAL**

### Description

This work shall consist of furnishing and installing a lighting controller in accordance with Section 825 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

### Materials

The lighting controller cabinet shall be an aluminum Type III cabinet, single door, painted green in accordance with Article 1068.01 of the Standard Specifications. The controller and cabinet shall be manufactured by Excel Ltd. using Square D parts unless otherwise specified. Provide a concrete Type D foundation for the lighting controller. The foundation shall be in accordance with Standard 878001 and Section 878 of the Standard Specifications.

Provide all control components as shown in the plans and as specified herein.

Panelboard Interior: Provide panelboard interior with main breaker and bus ratings as shown in the plans. Panelboard interior shall have copper bus and shall be service entrance rated. Provide bolt on circuit breakers, quantity, rating, and number of poles as shown in the plans. Panelboard interior shall include an equipment ground bus, bonded to controller cabinet, and manufactured by Square D.

HOPT Switch: Provide Hand-Off-Photocell-Timer switch in controller cabinet as shown in the plans. Switch shall be connected such that the lights are on in the "Hand" position, are off in the "Off" position, are controlled by the photocell in the "Photocell" position, and are controlled by the timer in the "Timer" position.

Light, Switch, and GFCI: Provide a light fixture with clear globe and protective guard mounted from top of cabinet. Lamp shall be a LED lamp rated for enclosed luminaires and shall be equivalent to a 100-watt incandescent lamp. Provide a 120VAC, 20A, single pole switch, plunger type, mounted such that it turns on the controller light when door is opened. Provide 120VAC, 20A, Ground Fault Circuit Interrupting duplex receptacle.

Photocell: Photocell shall be provided on an adjacent roadway luminaire and wired to the lighting controller.

Lighting Contactors: Provide quantity of lighting contactors as shown in the plans. Lighting contactors shall be a minimum of 2 pole, 30 amp, 240VAC with 120VAC electrically held coil, and manufactured by Square D.

Surge Arrestor: Provide surge arrestor capable to withstand a surge current up to 20,000A (8 x 120 microseconds) and repetitive surges of 200A for a minimum of 10,000 occurrences. Response time shall be less than 50 nanoseconds. Current drain shall be less than 100 microamperes. Surge arrestor leads shall not be spliced and shall be as short as possible.

Astronomical Clock: The timer shall be a Tork DZS200BP type timer with capacitance memory backup.

Terminal Strips: Provide terminal strips as shown on the plans for all incoming wiring. Quantity of terminals shall be such that there is a minimum of 100% spare terminals. Provide separate terminal strips for power, neutral, and ground wiring as required.

Terminal Block: Provide separate terminal block for control wiring.

All equipment listed herein and shown in the plans shall be mounted to a steel installation mounting plate to be installed in the controller cabinet.

Provide all wiring required in the controller cabinet to connect the control components as indicated in the plans. All wiring in the controller cabinet shall be neatly trained and bundled. All wiring shall be clearly marked at each termination.

#### Basis of Payment

This work will be paid for at the contract unit price each for LIGHTING CONTROLLER, SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified, including the controller cabinet and concrete foundation, all control components shown in the plans and specified above, all interconnecting wiring, and installation.

### **X8300001 LIGHT POLE, SPECIAL**

#### Description

This work shall consist of furnishing and installing davit arm light poles, complete with all hardware and accessories, in accordance with Section 830 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

#### Materials

The light poles shall be 25 feet tall and consist of a round tapered 4 bolt anchor base pole with minimum 4 foot radius curved davit arm(s). Light poles shall be manufactured by Hapco or Valmont.

All poles shall be designed and manufactured to withstand the increased wind load generated by the installation of banners 30 inches wide by 72 inches high with a mounting height of 15 feet to the bottom of the banner bracket. Poles with a single davit shall include one banner. The Contractor or the pole manufacturer shall submit a letter signed and sealed by an Illinois Licensed Structural Engineer stating that the poles can withstand the increased wind load generated by the installation of banners on the poles. The minimum wall thickness specified below is a minimum thickness. The Contractor shall increase wall thickness as required to withstand wind loading. Banner arms shall not be included with the poles but will be furnished and installed by others.

The pole shaft shall be spun tapered from all new seamless 6063 alloy aluminum tubing and shall be heat treated to T6 temper, with an 8 inch outside diameter at the pole base for a 25 foot mounting height. The pole wall thickness shall be 0.188 inch minimum for single davit arm poles and shall be increased as required to withstand wind loading. Each shaft shall have a specially tapered pole top tenon to accept the davit arm(s). The pole shaft shall be fitted with an internally mounted vibration damper.

The davit arm member(s) shall be conically tapered from 4½ inch outside diameter to 2¾ inch outside diameter with a minimum 0.188 inch wall 6063 alloy extruded aluminum tube. The fixture end of the arm(s) shall be a 2¾ inch outside diameter (2 inch pipe size) tenon. The davit arm(s) shall have an 8 foot 11 inch rise and a 10 foot span providing a + 3 degree tilt. The davit arm(s) shall slip into a tapered pole top tenon and be fastened with two stainless steel ⅝ inch through bolts.

The pole shall include a peripherally reinforced flush covered handhole centered 18 inches above the bottom of the base. The handhole cover shall match the pole finish and be secured with stainless steel Allenhead (not pinned) fasteners. The handhole opening shall be oriented 180 degrees from the single davit arm.

The anchor base shall be cast from A356 alloy aluminum. The anchor base shall be heat treated to a T6 condition. The anchor base casting and shaft shall be joined by a continuous circumferential weld at the outside top and inside bottom of the anchor base. The completed assembly shall be heat treated to a T6 temper after all structural welding is completed. Nut covers manufactured from A356 alloy aluminum shall be included with each anchor base. Bolt openings shall be slotted to accommodate an 11 inch to 12 inch bolt circle for an 8 inch outside diameter at the pole base.

The davit arm(s), aluminum pole, and all mounting hardware shall have a factory applied powder coating, black in color. Powder coated poles shall be polyester powder coated in a smooth black finish with a UV resistant powder designed for outdoor use without color fade. The polyester powder coating process shall have pre-treatment steps that ensure complete cleaning and adherence of the coating materials. The polyester powder coating shall be electrostatically applied thermosetting polyester resin powder coating to a minimum thickness of 100 microns. The manufacturer shall coat poles in its own facility. Out-sourcing of the powder coating process shall not be allowed.

The standard product warranty for the davit arm light poles and accessories shall be full parts and labor at the job site for one-year following the date of final completion. In addition to the standard product warranty, all surfaces featuring a powder-coat finish shall carry a full 5-year Finish Warranty. The coatings on all new poles shall carry this 5-year Finish Warranty from the date of shipment. The Finish Warranty shall provide for the full cost of refinishing in the event of a coating failure. The Contractor or the pole manufacturer shall submit full warranty information with a specific letter for this work, detailing the warranty terms and conditions in accordance with this special provision. The Finish Warranty shall provide protection against:

1. Peeling and Cracking.
2. Fading and Tint: UV damage and fading of more than 5% of the original color (tint).
3. Discoloration: Discoloration in excess of 5 E units (CIE 1976 CIELAB) as measured using procedure ASTM D 2244, latest revision, comparing an unexposed sample to an exposed surface after removal of dirt and chalk.
4. Gloss retention: In accordance with procedure ASTM D 523, latest revision, comparing an unexposed sample to an exposed surface after removal of dirt and chalk.
5. Corrosion and lack of adhesion: Corrosion and lack of adhesion as measured using procedure ASTM D 610, latest revision, based on the complete product assembly (for the purpose of this warranty, this procedure applies to both aluminum and steel).

Poles shall be delivered with a factory applied shipping wrap of cardboard or other material to fully protect against scratches and coating stain. Poles shall be blocked and bundled in groups of multiple poles, or use other equivalent means to prevent shifting and damage during transport.

The Contractor shall provide a sticker permanently attached to the light pole below the handhole indicating the circuit and pole number as shown on the plans. After assembly, a stainless steel mesh shall be placed to enclose the void between the foundation and the pole base as specified in Article 877.03 of the Standard Specifications. The stainless steel mesh and band at the pole base shall be painted black.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT POLE, SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified.

**X8360120 LIGHT POLE FOUNDATION, SPECIAL**

Description

This work shall consist of furnishing and installing a metal light pole foundation in accordance with Section 836 of the Standard Specifications, the details of Highway Standard 836001, the details in the plans, and the following additions or exceptions.

The bolt circle diameter of the metal foundation shall accommodate the bolt circle diameter of the light pole to be installed on the foundation. The top plate dimensions of the metal foundation shall accommodate the bolt circle diameter and the anchor base dimensions of the light pole to be installed on the foundation.

The grounding electrode for the foundation shall be installed in the junction box adjacent to the foundation to be provided for the light pole. Refer to the specification for JUNCTION BOX (SPECIAL) for additional information.

Basis of Payment

This work will be paid for at the contract unit price each for LIGHT POLE FOUNDATION, SPECIAL, which price shall include all labor, equipment, and material necessary to complete the work as specified, including all anchor bolts. The grounding electrode for the foundation shall be included in the cost of the junction box adjacent to the foundation.

**X8780105 CONCRETE FOUNDATIONS (SPECIAL)**

Description

This work shall consist of constructing a concrete light pole foundation in accordance with Section 836 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

All concrete, reinforcement bars, anchor bolts, conduit, excavation, subgrade preparation, and backfill required to construct the foundation shall be included in the cost of the concrete foundation.

Backfill shall consist of controlled low-strength material in accordance with Section 1019 of the Standard Specifications, coarse aggregate in accordance with Section 1004 of the Standard Specifications, or suitable excavated earth material, as shown on the details in the plans.

The Contractor shall coordinate the bolt circle diameter of the foundation with the light poles to be installed on the foundation.



The top of the foundation shall be 4" above the finished grade line in turf areas or 1" above the finished grade line in paved areas. The top of the foundation shall be formed circular with a 24" diameter for the full shaft height. The sides of the foundation shall be formed with clean, straight lumber. Refer to the details in the plans for additional information.

If the foundation is to be constructed in a brick paver area, then the top of the foundation shall be formed as a 24" x 24" square for the full shaft height. Expansion joints shall be placed between the pavers and the foundation in accordance with Article 424.07 of the Standard Specifications. This work will not be paid for separately but shall be included in the cost of the concrete foundation, and no additional compensation will be allowed. Refer to the details in the plans for additional information.

The grounding electrode for the foundation shall be installed in the junction box adjacent to the foundation to be provided for the light pole. Refer to the special provision for JUNCTION BOX (SPECIAL) for additional information.

The foundation shall be used at the locations determined by the Engineer. The 3'-6" deep foundation shall be used unless otherwise directed by the Engineer.

A quantity for Concrete Foundations (Special) has been included in the plans to establish a unit bid price for this pay item. It is hereby understood that the City of Urbana reserves the right to delete any or all of this pay item from the contract. Should the City of Urbana delete any or all of this pay item from the contract, the Contractor will not receive payment for the deleted pay item.

#### Basis of Payment

This work will be paid for at the contract unit price each for CONCRETE FOUNDATIONS (SPECIAL), which price shall include all labor, equipment, and material necessary to complete the work as specified, including all concrete, reinforcement bars, anchor bolts, conduit, excavation, subgrade preparation, and backfill. The grounding electrode for the foundation shall be included in the cost of the junction box adjacent to the foundation.

### **XX006344 SODDING (COMPLETE)**

#### Description

This work shall consist of excavating existing turf areas, preparing the ground surface, and furnishing and placing topsoil, salt tolerant sod, and other materials required in the sodding operations in accordance with Sections 211 and 252 of the Standard Specifications, the City of Urbana Right-of-Way Standard Drawing "Sodding Installation", and the following additions or exceptions.

The limits of topsoil and sodding required for the removal and/or installation of light poles, junction boxes, and lighting controllers are not shown in the plans. Estimated quantities for this work are included in the plans based on the limits described in the "Removal and Replacement Notes" in the plans and the City of Urbana Right-of-Way Standard Drawing "Sodding Installation". Landscape Plans are not included for these work areas.

Additional quantities are included for the restoration of turf areas at previously removed or installed lighting equipment locations as shown on the Landscape Plans. The final topsoil and sodding limits for these areas will be determined by the Engineer.

### Materials

All materials shall meet the requirements of Sections 211 and 252 of the Standard Specifications and the following additions or exceptions.

Topsoil shall meet the requirements of Article 1081.05 of the Standard Specifications except that the topsoil shall be sifted and shall have all deleterious material removed, including all dirt clods greater than one inch in diameter. It may become necessary to furnish additional topsoil for placement if there is insufficient suitable topsoil material available on the site.

Sod shall be salt tolerant and shall meet the requirements of Article 1081.03 of the Standard Specifications.

### Construction Requirements

Before any sodding begins, the Contractor shall be responsible for the removal of all debris and other deleterious material that would interfere with or complicate the future maintenance of the restored surfaces and adjacent areas. After cleanup and power raking of the areas to be sodded have occurred, all areas to be sodded shall have a minimum of six inches of agricultural grade topsoil applied. Fertilizer nutrients shall be applied in accordance with Article 252.03 of the Standard Specifications. All areas prepared and ready for sodding shall be inspected and approved by the Engineer prior to any sod placement.

Sodding shall be completed as soon as possible after the completion of each stage of the project. The sodding times shall be in accordance with Article 252.04 of the Standard Specifications or as otherwise directed by the Engineer. The Contractor shall be responsible for the sodded areas until they are fully established, which may require resodding of any bare or dead areas until growth is established. The Contractor shall maintain the sodded areas until the areas are accepted by the Engineer.

Sod watering shall be performed in accordance with Article 252.08 of the Standard Specifications. Supplemental watering at the rate of two gallons per square yard per application may be required in accordance with Article 252.09 of the Standard Specifications and as directed by the Engineer.

All watering described shall be done with a spray application. An open-end hose will not be acceptable. The method of watering shall meet the approval of the Engineer.

### Basis of Payment

This work will be paid for at the contract unit price per square yard for SODDING (COMPLETE), which price shall include all labor, equipment, and material necessary to complete the work as specified, including all excavation, ground preparation, topsoil, fertilizer nutrients, salt tolerant sod, sod watering, and supplemental watering.

Any additional sodding required for bare or dead areas after the initial sodding operation will not be paid for separately but shall be included in the cost of Sodding (Complete), and no additional compensation will be allowed.

The Contractor is advised that payment for sodding will only be made for those areas which are necessarily disturbed by construction operations as determined by the Engineer. Turf areas which are unnecessarily disturbed by construction operations shall be sodded by the Contractor as directed by the Engineer and at the Contractor's expense.

**XX008068 LUMINAIRE INSTALLATION, TYPE 1**

**Description**

This work shall consist of furnishing and installing a luminaire in accordance with Section 821 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

**Materials**

The full cut-off luminaire shall utilize a 4-bolt slip fitter with +/-5 degrees of adjustment for leveling. Provide luminaire with optional level and tool-less entry. Luminaire shall be suitable for use on a 240 volt system. The luminaire shall have a black finish.

**A. Luminaire Type 1**

The full cut-off luminaire shall have a structured LED array to provide 19,000 initial lumens at 4,000K. Distribution shall be asymmetric medium. The luminaire shall not have an individual photocell.

The luminaire shall be the Evolve LED series manufactured by GE Lighting Systems, catalog number ERL2-0-19-C3-40-D-BLCK-AGILR. Comparable products from Cree/BetaLED or Philips Lumec may be considered for approval subject to compliance with the specified requirements.

**Basis of Payment**

This work will be paid for at the contract unit price each for LUMINAIRE INSTALLATION, TYPE 1, which price shall include all labor, equipment, and material necessary to complete the work as specified.

**XX008069 LUMINAIRE INSTALLATION, TYPE 2**

**Description**

This work shall consist of furnishing and installing a luminaire in accordance with Section 821 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

**Materials**

The full cut-off luminaire shall utilize a 4-bolt slip fitter with +/-5 degrees of adjustment for leveling. Provide luminaire with optional level and tool-less entry. Luminaire shall be suitable for use on a 240 volt system. The luminaire shall have a black finish.

**A. Luminaire Type 2**

The full cut-off luminaire shall have a structured LED array to provide 9,000 initial lumens at 4,000K. Distribution shall be asymmetric medium. The luminaire shall not have an individual photocell.

The luminaire shall be the Evolve LED series manufactured by GE Lighting Systems, catalog number ERL1-0-09-C3-40-D-BLCK-AGILR. Comparable products from Cree/BetaLED or Philips Lumec may be considered for approval subject to compliance with the specified requirements.

## B. Luminaire Type 2P

The full cut-off luminaire shall have a structured LED array to provide 9,000 initial lumens at 4,000K. Distribution shall be asymmetric medium. The luminaire shall have an individual photocell.

The luminaire shall be furnished with a photocell receptacle and a photocell as shown in the plans. The luminaire shall be installed with the davit arm and pole (pole #068A1) located at station 106+14 on Mathews Avenue.

The photocell shall not be wired to the individual luminaire; instead, the photocell shall be wired to the lighting contactors located in the proposed lighting controller #068 cabinet as shown in the plans.

The luminaire shall be the Evolve LED series manufactured by GE Lighting Systems, catalog number ERL1-0-09-C3-40-E-BLCK-AGILR. Comparable products from Cree/BetaLED or Philips Lumec may be considered for approval subject to compliance with the specified requirements.

### Basis of Payment

This work will be paid for at the contract unit price each for LUMINAIRE INSTALLATION, TYPE 2, which price shall include all labor, equipment, and material necessary to complete the work as specified, including the photocell receptacle and photocell required for the Type 2P luminaire. See the Roadway Lighting Plans for the quantities of each type of luminaire.

## **Z0013798 CONSTRUCTION LAYOUT**

Refer to Check Sheet #10 for this pay item. References to the Department shall be construed to mean the City of Urbana or its Engineer.

Paragraphs (b), (c), (e), and (j) of "Responsibility of the Department" shall not apply. Horizontal control points have been set by the Engineer at the locations shown in the plans.

**STATUS OF UTILITIES TO BE ADJUSTED**

The intent is for adjustments to be made prior to the start of construction. It may be necessary for some of the utility relocations to be done during construction and the Contractor will be required to cooperate with the utility companies while they perform their work. See general notes 14, 15, 16, 17, and 18 in the plans and the special provisions for “Cooperation with Utility Owners” and “University of Illinois Served Utilities”. The utility companies have been provided the following information.

**Status**

P – Indicates potential conflict with the proposed improvements requiring further field investigation by the Contractor and utility owner.

R – Indicates item to be adjusted, relocated, removed, or removed and replaced.

The locations where proposed roadway lighting conduits cross existing utilities and the locations where proposed roadway lighting junction boxes are adjacent to existing utilities are not listed in the Status of Utilities to be Adjusted; however, these locations should also be considered potential conflict areas as defined above.

<u>Utility Company</u>	<u>Street</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
Ameren Illinois 1112 West Anthony Drive Urbana, Illinois 61803 (217) 383-7280	Mathews Ave	Gas Lines	108+44 Rt.	P
			109+19 Rt.	P
			109+67 Rt.	P
			110+19 Rt.	P
			110+74 Rt.	P
			111+29 Rt.	P
			112+40 Rt.	P
			112+74 Rt.	P
			113+25 Rt.	P
			113+79 Rt.	P
			114+33 Rt.	P
			114+87 Rt.	P
			115+40 Rt.	P
			115+93 Rt.	P
			116+48 Rt.	P
			116+97 Rt.	P
119+78 Rt.	P			
120+80 Rt.	P			
121+83 Rt.	P			
122+80 Rt.	P			
123+77 Rt.	P			
124+84 Rt.	P			
125+91 Rt.	P			

<u>Utility Company</u>	<u>Street</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
AT&T 201 South Neil Street Champaign, Illinois 61820 (217) 398-7990	Mathews Ave	U.G. Communication Lines	108+44 Rt.	P
			108+82 Rt.	P
			109+19 Rt.	P
			109+64 Rt.	P
			115+90 Rt.	P
			116+48 Rt.	P
			116+97 Rt.	P
Comcast 303 East Fairlawn Drive Urbana, Illinois 61801 (217) 384-2510	Mathews Ave	U.G. Cable TV Lines	field verify	
Illinois American Water 1406 Cardinal Court Urbana, Illinois 61801 (217) 373-3258	Mathews Ave	Water Lines	107+27 Rt.	P
			107+76 Rt.	P
			108+44 Rt.	P
			109+67 Rt.	P
			110+19 Rt.	P
			110+74 Rt.	P
			111+29 Rt.	P
			111+84 Rt.	P
			112+40 Rt.	P
			112+74 Rt.	P
			113+25 Rt.	P
			113+79 Rt.	P
			114+33 Rt.	P
Illinois Consolidated Telephone 2116 South 17 <sup>th</sup> Street Mattoon, Illinois 61938 (217) 235-3355				All Clear Received by Email 04.08.2021
ITV3 (UC2B) 602 High Point Lane East Peoria, Illinois 61611 (309) 670-0400				All Clear Received by Email 04.09.2021

<u>Utility Company</u>	<u>Street</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>	
Urbana-Champaign Sanitary Dist. 1100 East University Avenue Urbana, Illinois 61803 (217) 367-3409	Mathews Ave	Sanitary Sewer Lines	field verify		
University of Illinois Facilities and Services 1501 South Oak Street Champaign, Illinois 61820 (217) 333-0340	Oregon St	U.G. Electric Lines	400+62 Rt.	P	
		Water Lines	400+62 Rt.	P	
	Mathews Ave	Sanitary Sewer Lines	106+14 Rt.	P	
			106+62 Rt.	P	
			107+27 Rt.	P	
			107+76 Rt.	P	
			108+44 Rt.	P	
			108+85 Rt.	P	
			109+19 Rt.	P	
			109+67 Rt.	P	
			110+19 Rt.	P	
			110+74 Rt.	P	
			111+29 Rt.	P	
			111+84 Rt.	P	
			113+25 Rt.	P	
			Water Lines	108+90 Lt.	P
				110+23 Lt.	P
				112+38 Lt.	P
				121+63 Lt.	P
			U.G. Electric Lines	112+38 Lt.	P
	121+63 Lt.	P			
Chilled Water Lines	108+44 Rt.	P			
	113+25 Rt.	P			
Air Lines	113+25 Rt.	P			
Steam Tunnel	123+77 Rt.	P			
	124+84 Rt.	P			
	125+91 Rt.	P			
University of Illinois Technology Services 1304 West Springfield Avenue Urbana, Illinois 61801 (217) 244-0303	Mathews Ave	U.G. Communication Lines	112+40 Rt.	P	
			124+84 Rt.	P	
			125+91 Rt.	P	

<u>Utility Company</u>	<u>Street</u>	<u>Type</u>	<u>Location</u>	<u>Status</u>
City of Urbana Public Works 706 South Glover Avenue Urbana, Illinois 61802 (217) 384-2342	Mathews Ave	Storm Sewer Lines	108+44 Rt.	P
			108+85 Rt.	P
			109+19 Rt.	P
			110+23 Lt.	P
			112+38 Lt.	P
			119+78 Rt.	P
	120+80 Rt.	P		
Windstream KDL 102 East Shafer Street Forsyth, Illinois 62535 319-790-1464	Mathews Ave	U.G. Communication Lines	118+80 Rt.	P
			119+78 Rt.	P
			120+80 Rt.	P
			121+83 Rt.	P
			122+80 Rt.	P
			123+77 Rt.	P
			124+81 Rt.	P
			125+91 Rt.	P



INDEX  
FOR  
SUPPLEMENTAL SPECIFICATIONS  
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2021

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction  
(Adopted 4-1-16) (Revised 1-1-21)

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## Check Sheet for Recurring Special Provisions

The Following Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

### Recurring Special Provisions

#### Check Sheet #

- |    |                                     |  |
|----|-------------------------------------|--|
| 1  | <input type="checkbox"/>            | Additional State Requirements for Federal-Aid Construction Contracts |
| 2  | <input type="checkbox"/>            | Subletting of Contracts (Federal-Aid Contracts)                      |
| 3  | <input type="checkbox"/>            | EEO  |
| 4  | <input type="checkbox"/>            | Specific EEO Responsibilities Non Federal-Aid Contracts              |
| 5  | <input type="checkbox"/>            | Required Provisions - State Contracts                                |
| 6  | <input type="checkbox"/>            | Asbestos Bearing Pad Removal   |
| 7  | <input type="checkbox"/>            | Asbestos Waterproofing Membrane and Asbestos HMA Surface Removal     |
| 8  | <input type="checkbox"/>            | Temporary Stream Crossings and In-Stream Work Pads                   |
| 9  | <input type="checkbox"/>            | Construction Layout Stakes Except for Bridges                        |
| 10 | <input checked="" type="checkbox"/> | Construction Layout Stakes   |
| 11 | <input type="checkbox"/>            | Use of Geotextile Fabric for Railroad Crossing                       |
| 12 | <input type="checkbox"/>            | Subsealing of Concrete Pavements                                     |
| 13 | <input type="checkbox"/>            | Hot-Mix Asphalt Surface Correction                                   |
| 14 | <input type="checkbox"/>            | Pavement and Shoulder Resurfacing                                    |
| 15 | <input type="checkbox"/>            | Patching with Hot-Mix Asphalt Overlay Removal                        |
| 16 | <input type="checkbox"/>            | Polymer Concrete   |
| 17 | <input type="checkbox"/>            | PVC Pipeliner  |
| 18 | <input type="checkbox"/>            | Bicycle Racks  |
| 19 | <input type="checkbox"/>            | Temporary Portable Bridge Traffic Signals                            |
| 20 |                                     | <b>Reserved</b>  |
| 21 | <input type="checkbox"/>            | Nighttime Inspection of Roadway Lighting                             |
| 22 | <input type="checkbox"/>            | English Substitution of Metric Bolts                                 |
| 23 | <input type="checkbox"/>            | Calcium Chloride Accelerator for Portland Cement Concrete            |
| 24 | <input type="checkbox"/>            | Quality Control of Concrete Mixtures at the Plant                    |
| 25 | <input type="checkbox"/>            | Quality Control/Quality Assurance of Concrete Mixtures               |
| 26 | <input type="checkbox"/>            | Digital Terrain Modeling for Earthwork Calculations                  |
| 27 |                                     | <b>Reserved</b>  |
| 28 | <input type="checkbox"/>            | Preventive Maintenance - Bituminous Surface Treatment (A-1)          |
| 29 |                                     | <b>Reserved</b>  |
| 30 |                                     | <b>Reserved</b>  |
| 31 |                                     | <b>Reserved</b>  |
| 32 | <input type="checkbox"/>            | Temporary Raised Pavement Markers                                    |
| 33 | <input type="checkbox"/>            | Restoring Bridge Approach Pavements Using High-Density Foam          |
| 34 | <input type="checkbox"/>            | Portland Cement Concrete Inlay or Overlay                            |
| 35 | <input type="checkbox"/>            | Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching      |
| 36 | <input type="checkbox"/>            | Longitudinal Joint and Crack Patching                                |
| 37 | <input type="checkbox"/>            | Concrete Mix Design - Department Provided                            |

## CHECK SHEET #10

State of Illinois  
Department of Transportation

### SPECIAL PROVISION FOR CONSTRUCTION LAYOUT STAKES

Effective: May 1, 1993  
Revised: January 1, 2007

Description. The Contractor shall furnish and place construction layout stakes for this project. The Department will provide adequate reference points to the centerline of survey and bench marks as shown in the plans and listed herein. Any additional control points set by the Department will be identified in the field to the Contractor and all field notes will be kept in the office of the Resident Engineer.

The Contractor shall provide field forces, equipment, and material to set all additional stakes for this project, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary bench marks, necessary to secure a correct layout of the work. Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 50 ft (15 m)) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations, and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Department Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and bench marks and shall have them reset when any are damaged, lost, displaced, removed, or otherwise obliterated.

#### Responsibility of the Department.

- (a) The Department will locate and reference the centerline of all roads and streets, except interchange ramps. The centerline of private entrances and short street intersection returns may not be located or referenced by the Department.

Locating and referencing the centerline of survey will consist of establishing and referencing the control points of the centerline of surveys such as PC's, PT's and as many POT's as are necessary to provide a line of sight.

- (b) Bench marks will be established along the project outside of construction lines not exceeding 1000 ft (300 m) intervals horizontally and 20 ft (6 m) vertically.

## CHECK SHEET #10

- (c) Stakes set for (a) and (b) above will be identified in the field to the Contractor.
- (d) The Department will make random checks of the Contractor's staking to determine if the work is in conformance with the plans. Where the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.
- (e) The Department will set all stakes for utility adjustments and for building fences along the right-of-way line by parties other than the Contractor.
- (f) The Department will make all measurements and take all cross sections from which the various pay items will be measured.
- (g) Where the Contractor, in setting construction stakes, discovers discrepancies, the Department will check to determine their nature and make whatever revisions are necessary in the plans, including the recross sectioning of the area involved. Any additional restaking required by the Engineer will be the responsibility of the Contractor. The additional restaking done by the Contractor will be paid for according to Article 109.04 of the Standard Specifications.
- (h) The Department will accept responsibility for the accuracy of the initial control points as provided herein.
- (i) It is not the responsibility of the Department, except as provided herein, to check the correctness of the Contractor's stakes; any errors apparent will be immediately called to the Contractor's attention and s(he) shall make the necessary correction before the stakes are used for construction purposes.
- (j) Where the plan quantities for excavation are to be used as the final pay quantities, the Department will make sufficient checks to determine if the work has been completed in conformance with the plan cross sections.

### Responsibility of the Contractor.

- (a) The Contractor shall establish from the given survey points and bench marks all the control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control in close proximity to each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work. It is the Contractor's responsibility to tie in centerline control points in order to preserve them during construction operations.
- (b) At the completion of the grading operations, the Contractor shall set stakes at 100 ft (25 m) Station intervals along each profile grade line. These stakes will be used for final cross sectioning by the Department.

## CHECK SHEET #10

- (c) The Contractor shall locate the right-of-way points for the installation of right-of-way markers. The Contractor shall set all line stakes for the construction of fences by the Contractor.
- (d) All work shall be according to normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Department at the completion of the project. All notes shall be neat, orderly and in accepted form.
- (e) For highway structure staking, the Contractor shall use diligent care and appropriate accuracy. Points shall be positioned to allow reuse throughout the construction process. Prior to the beginning of construction activities, all structure centerlines and pier lines are to be established by the Contractor and checked by the Engineer. The Contractor shall provide a detailed structure layout drawing showing span dimensions, staking lines and offset distances.

Measurement and Payment. This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT.

## Check Sheet for Local Roads and Streets Recurring Special Provisions

The Following Local Roads And Streets Recurring Special Provisions Indicated By An "X" Are Applicable To This Contract And Are Included By Reference:

### Local Roads And Streets Recurring Special Provisions

#### Check Sheet #

- |        |                                     |  |
|--------|-------------------------------------|--|
| LRS 1  |                                     | <b>Reserved</b>  |
| LRS 2  | <input type="checkbox"/>            | Furnished Excavation                                       |
| LRS 3  | <input checked="" type="checkbox"/> | Work Zone Traffic Control Surveillance                     |
| LRS 4  | <input checked="" type="checkbox"/> | Flaggers in Work Zones                                     |
| LRS 5  | <input checked="" type="checkbox"/> | Contract Claims  |
| LRS 6  | <input type="checkbox"/>            | Bidding Requirements and Conditions for Contract Proposals |
| LRS 7  | <input type="checkbox"/>            | Bidding Requirements and Conditions for Material Proposals |
| LRS 8  |                                     | <b>Reserved</b>  |
| LRS 9  | <input type="checkbox"/>            | Bituminous Surface Treatments                              |
| LRS 10 |                                     | <b>Reserved</b>  |
| LRS 11 | <input checked="" type="checkbox"/> | Employment Practices                                       |
| LRS 12 | <input type="checkbox"/>            | Wages of Employees on Public Works                         |
| LRS 13 | <input type="checkbox"/>            | Selection of Labor   |
| LRS 14 | <input checked="" type="checkbox"/> | Paving Brick and Concrete Paver Pavements and Sidewalks    |
| LRS 15 | <input checked="" type="checkbox"/> | Partial Payments   |
| LRS 16 | <input type="checkbox"/>            | Protests on Local Lettings                                 |
| LRS 17 | <input type="checkbox"/>            | Substance Abuse Prevention Program                         |
| LRS 18 | <input type="checkbox"/>            | Multigrade Cold Mix Asphalt                                |

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
WORK ZONE TRAFFIC CONTROL SURVEILLANCE

Effective: January 1, 1999  
Revised: January 1, 2018

Revise Article 701.10 of the Standard Specifications to read:

“The Contractor shall conduct inspections of the worksite at a frequency that will allow for the timely replacement of any traffic control device that has become displaced, worn, or damaged. A sufficient quantity of replacement devices, based on vulnerability to damage, shall be readily available to meet this requirement.”

Delete Article 701.20(g) of the Standard Specifications.



**CHECK SHEET #LRS4**

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
FLAGGERS IN WORK ZONES

Effective: January 1, 1999  
Revised: January 1, 2007

Revise the last paragraph of Article 701.13 of the Standard Specifications to read:

“Flaggers are required only when workers are present.”

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
CONTRACT CLAIMS

Effective: January 1, 2002  
Revised: January 1, 2007

Revise the second sentence of subparagraph (a) of Article 109.09 of the Standard Specifications to read:

"All claims shall be submitted to the Engineer."

Revise subparagraph (e) of Article 109.09 of the Standard Specifications to read:

"(e) Procedure. All Claims shall be submitted to the Engineer. The Engineer will consider all information submitted with the claim. Claims not conforming to this Article will be returned without consideration. The Engineer may schedule a claim presentation meeting if, in the Engineer's judgment, such a meeting would aid in resolution of the claim, otherwise a decision will be based on the claim documentation submitted. A final decision will be rendered within 90 days of receipt of the claim.

Full compliance by the Contractor with the provisions specified in this Article is a contractual condition precedent to the Contractor's right to seek relief in the Court of Claims. The Engineer's written decision shall be the final administrative action of the Department. Unless the Contractor files a claim for adjudication by the Court of Claims within 60 days after the date of the written decision, the failure to file shall constitute a release and waiver of the claim."

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
EMPLOYMENT PRACTICES

Effective: January 1, 1999

In addition to all other labor requirements set forth in this proposal and in the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation, during the performance of this contract, the Contractor for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

**Selection of Labor.** The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

**Equal Employment Opportunity.** During the performance of this contract, the Contractor agrees as follows:

- (a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service, and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- (b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- (c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin, ancestry, age, marital status, physical or mental handicap or unfavorable discharge from military service.

That it will send to each labor organization or representative of workers with which it has or is bound by collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with so such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

## CHECK SHEET #LRS11

- (e) That it will submit reports as required by the Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
- (g) That it will include verbatim or by reference the provisions of this clause in every subcontract so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

**CHECK SHEET #LRS14**

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
PAVING BRICK AND CONCRETE PAVER PAVEMENTS AND SIDEWALKS

Effective: January 1, 2004  
Revised: January 1, 2009

Description. This work shall consist of constructing pavement or sidewalk, composed of paving bricks or concrete pavers, on a prepared subgrade, subbase, or base.

Materials. Materials shall be according to the following Articles of Division 1000 - Materials of the Standard Specifications.

Item	Article/Section
(a) Fine Aggregate (Note 1) .....	1003.01, 1003.02(d)
(b) Edge Restraints (Note 2)	
(c) Paving Brick (Note 3) .....	1041.03
(d) Concrete Pavers (Note 3) .....	1042

Note 1. The fine aggregate used for the bedding course and joint filling shall be sand, silica sand, or slag sand. It shall also be Class A quality and dry. For the bedding course, the gradation shall be FA 1 or FA 2. For joint filling, the gradation shall be FA 9.

Note 2. For sidewalk, the edge restraints shall conform to the manufacturer's recommendations. For pavement, the edge restraints shall be combination concrete curb and gutter according to Section 606 of the Standard Specifications.

Note 3. The dimensions of the bricks and/or pavers shall be as shown on the plans.

Equipment. Equipment shall conform to the following Articles of Division 1100 - Equipment of the Standard Specifications.

Item	Article/Section
(a) Pneumatic-Tired Rollers .....	1101.01(a)
(b) Masonry Saw (Note 1)	
(c) Vibrator/Compactor (Note 2)	

Note 1. The masonry saw shall be a wet or dry saw capable of clean and accurate cuts.

Note 2. The vibrator/compactor shall be either a plate compactor with a high frequency, low amplitude plate or a rubber-roller mechanical vibrator.

Aesthetic Mockup, Review, and Approval. A 1 sq yd (sq m) full-scale mock-up using actual job specific edge restraint (if other than combination concrete curb and gutter), materials, brick dimension, colors, methods, and workmanship shall be provided by the Contractor. The actual vibrating equipment and vibrating rate to be used on the job shall be used on the mockup. The accepted mock-up will be the standard by which remaining work will be evaluated for technical and aesthetic merit. The mock up may be in a location of proposed installation where it may remain if approved by the Engineer.

### **CONSTRUCTION REQUIREMENTS**

Preparation of Subgrade. The subgrade shall be prepared according to Section 301 of the Standard Specifications, except Articles 301.05 and 301.06 will not apply.

Edge Restraints. Edge restraints shall be placed to a depth of at least the bottom of the bedding course.

For pavement, a transverse full-depth cast-in-place concrete header shall be placed at the limits of the pavement.

Bedding Course. The fine aggregate for bedding shall be placed and screeded, without compaction, to a uniform thickness of 1 to 1.5 in. (25 to 38 mm). Prepared areas shall not be left overnight, unless they are protected from disturbance and moisture. Stockpiled material shall be kept covered. Any saturated bedding aggregate shall be removed and replaced.

Installation. The bricks or pavers shall be laid in the pattern shown on the plans with a joint width from 1/8 to 1/4 in. (3 to 6 mm) on all sides. Whole bricks or pavers shall be laid first, starting from an exact edge or from the centerline of the pavement, followed by cut bricks or pavers. Cut bricks or pavers shall be at least 33 percent of the whole unit size.

After the entire pavement or sidewalk has been laid, it shall be set into the bedding course by one pass of the vibrator/compactor. Vibration/compaction shall stop within 3 ft (1 m) of any unrestrained edge.

For pavement, construction equipment shall not be driven on the new surface until the joints have been filled.

Joint Filling. The fine aggregate for joint filling shall be spread over the pavement or sidewalk and hand broomed into the joints. The aggregate shall then be worked down into the joints with multiple passes of the vibrator/compactor. Each pass shall be alternated 90 degrees from the previous pass. This process shall be repeated until the joints are completely filled.

Excess fine aggregate shall be removed by hand brooming.

All bricks and pavers within 6 ft (1.8 m) of the laying face shall be compacted and the joints completely filled with sand at the end of each workday.

## CHECK SHEET #LRS14

For pavement, final rolling shall be completed with a 5 – 10 ton (4.5 – 9 metric ton) static pneumatic-tired roller.

Smoothness. For pavement, the completed surface will be tested for smoothness with a 16 ft (5 m) straightedge. Surface variations of the mainline pavement shall not exceed 3/16 in. (5 mm).

Method of Measurement. This work will be measured for payment as follows:

- (a) Contract Quantities. The requirements for the use of contract quantities shall conform to Article 202.07(a) of the Standard Specifications.
- (b) Measured Quantities. This work will be measured for payment in place and the area computed in square yards (square meters). Measurements will not include the edge restraints.

Edge restraints constructed of combination concrete curb and gutter will be measured according to Article 606.14 of the Standard Specifications.

Basis of Payment. This work will be paid for at the contract unit price per square meter (square yard) for PAVING BRICK PAVEMENT FOR LIGHT TRAFFIC, PAVING BRICK PAVEMENT FOR HEAVY TRAFFIC, CONCRETE PAVER PAVEMENT, PAVING BRICK SIDEWALK, or CONCRETE PAVER SIDEWALK.

Edge restraints constructed of combination concrete curb and gutter will be paid for according to Article 606.15 of the Standard Specifications.

State of Illinois  
Department of Transportation

SPECIAL PROVISION  
FOR  
PARTIAL PAYMENTS

Effective: January 1, 2007

Add the following after the first paragraph of Article 109.07(a) of the Standard Specifications:

“The State will deduct from the amount so determined for the first 50 percent of the completed work a sum of ten percent to be retained until after the completion of the entire work to the satisfaction of the Engineer. After 50 percent or more of the work is completed, the Engineer may, at his/her discretion, certify the remaining partial payments without any further retention, provided that satisfactory progress is being made, and provided that the amount retained is not less than five percent of the total adjusted contract price. When the principal items of the work have been satisfactorily completed, a semi-final estimate may be made with the consent of the surety. Payment to the Contractor under such an estimate shall not exceed 90 percent of the amount retained after making partial payments, but in no event shall the amount retained after making the semi-final payment be less than one percent of the adjusted contract price, nor less than \$500.00.

When any payment is made directly to the State, payments for completed work shall have deducted the proportionate share of the cost to be borne by the State. The deduction will be the estimated cost to the State divided by the awarded contract value with this percentage applied to the value of work in place. Any adjustment to be made because of changed quantities will be made when the final payment is being processed. No retainage will be held from the value of such payments.”



## Local Roads Special Provisions and Special Details

The following Local Roads Special Provisions and Special Details indicated by an "X" are applicable to this contract and are included by reference:

LR #	Revised	Title (Effective Date) Description.
LR SD12	1/1/2007	Slab Movement Detection Device (Eff. 11-1-84)
LR SD13	1/1/2007	Required Cold Milled Surface Texture (Eff. 11-1-87)
LR SD406		RESCINDED
LR 102-2	1/1/2015	RESCINDED
LR 105	1/1/2015	RESCINDED
LR 107-2	1/1/2006	Railroad Protective Liability Insurance for Local Lettings (Eff. 3-1-05)
X LR 107-4	8/1/2007	Insurance (Eff. 2-1-07)
LR 107-7	1/1/2015	RESCINDED
LR 108	3/1/2005	Combination Bids (Eff. 1-1-94)
X LR 109		Equipment Rental Rates (Eff. 1/1/12)
LR 109-2		Special Provision for Bituminous Materials Cost Adjustment (Local Letting Only) (Eff. 6-16-17)
LR 109-3		Special Provision for Fuel Cost Adjustment (Local Letting Only) (Eff. 6-16-17)
LR 109-4		Special Provision for Steel Cost Adjustment (Local Letting Only) (Eff. 6-16-17)
LR 212	1/1/2002	Shaping Roadway (Eff. 8-1-69)
LR 355-1	1/1/2007	Asphalt Stabilized Base Course, Road Mix or Traveling Plant Mix (Eff. 10-1-73)
LR 355-2	1/1/2007	Asphalt Stabilized Base Course, Plant Mix (Eff. 2-20-63)
LR 400-1	4/1/2012	Bituminous Treated Earth Surface" (Eff. 1/1/07)
LR 400-2		Bituminous Surface Mixture (Class B) (Eff. 1/1/08)
LR 400-3		Hot In-Place Recycling (HIR) – Surface Recycling (Eff. 1/1/12)
LR 400-4	1/4/2019	Full Depth Reclamation (FDR) with Emulsified Asphalt (Eff. 4/1/12)
LR 400-5	1/4/2019	Cold In-place Recycling (CIR) with Emulsified Asphalt (Eff. 4/1/12)
LR 400-6	1/4/2019	Cold In-place Recycling (CIR) with Foamed Asphalt (Eff. 6/1/12)
LR 400-7	1/4/2019	Full-Depth Reclamation (FDR) with Foamed Asphalt (Eff. 6/1/12)
LR 400-8		Special Provision for Pulverization (Eff. 1-24-17)
LR 402	1/1/2007	Salt Stabilized Surface Course (Eff 2-20-63)
LR 403-1	6/1/2012	Surface Profile Milling of Existing, Recycled OR Reclaimed Flexible Pavement (Eff. 4/1/12)
LR 403-2	1/1/2007	Bituminous Hot Mix Sand Seal Coat (Eff. 8-1-69)
LR 403-3		Preventive Maintenance - Bituminous Surface Treatment (A-1)
LR 403-4		Special Provision for Bituminous Surface Treatment – Class A-1, A-2, A-3 (Local Letting Only) (Eff. 6-16-2017)
LR 406		Filling HMA Core Holes with Non-shrink Grout" (Eff. 1/1/08)
LR 420	1/1/2007	PCC Pavement (Special) (Eff. 5-12-64)
LR 442	10/17/2017	Bituminous Patching Mixtures for Maintenance Use (Eff. 1/1/04)
LR 451	1/1/2007	Crack Filling Bituminous Pavement with Fiber-Asphalt (Eff. 10-1-91)
LR 503-1	1/1/2002	Furnishing Class SI Concrete (Eff. 10-1-73)
LR 503-2	1/1/2002	Furnishing Class SI Concrete (Short Load) (Eff. 1-1-89)
LR 542	1/1/2007	Pipe Culverts, Type__ (Furnished) (Eff. 9-1-64)
LR 542-1		Pipe Culverts, Special (Eff. 4/1/16)
LR 663	1/1/2007	Calcium Chloride Applied (Eff. 6-1-58)
X LR 702	6/1/2007	Construction and Maintenance Signs (Eff. 1/1/04)
LR 1000-1	6/1/2012	Cold In-place Recycling (CIR) and Full Depth Reclamation (FDR) with Emulsified Asphalt Mix Design Procedures (Eff. 4/1/12)
LR 1000-2		Cold In-place Recycling (CIR) and Full-Depth Reclamation (FDR) with Foamed Asphalt Mix Design Procedures (Eff. 6/1/12)
LR 1004	1/1/2007	Coarse Aggregate for Bituminous Surface Treatment (Eff. 1-1-02)
LR 1030	1/1/2010	Growth Curve (Eff. 3/1/2008)
LR 1032-1	2/7/2008	Emulsified Asphalts (Eff. 1/1/07)
LR 1102		Road Mix or Traveling Plant Mix Equipment" (Eff. 1-1-07)
LR 80029-1		Special Provision for Disadvantaged Business Enterprise Participation for local lettings

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
INSURANCE

Effective: February 1, 2007  
Revised: August 1, 2007

All references to Sections or Articles in this specification shall be construed to mean specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

The Contractor shall name the following entities as additional insured under the Contractor's general liability insurance policy in accordance with Article 107.27:

City of Urbana, Illinois

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Clark Dietz, Inc.

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The entities listed above and their officers, employees, and agents shall be indemnified and held harmless in accordance with Article 107.26.

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets

SPECIAL PROVISION  
FOR  
EQUIPMENT RENTAL RATES

Effective: January 1, 2012

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

Replace Article 109.04(b)(4) with the following:

- "(4) Equipment. For any machinery or special equipment (other than small tools) the use of which has been authorized by the Engineer, the Contractor will be paid according to the latest revision of "SCHEDULE OF AVERAGE ANNUAL EQUIPMENT OWNERSHIP EXPENSE" and latest index factor as issued by the Illinois Department of Transportation. The equipment should be of a type and size reasonably required to complete the extra work."

State of Illinois  
Department of Transportation  
Bureau of Local Roads and Streets  
SPECIAL PROVISION  
FOR  
CONSTRUCTION AND MAINTENANCE SIGNS

Effective: January 1, 2004  
Revised: June 1, 2007

All references to Sections or Articles in this specification shall be construed to mean a specific Section or Article of the Standard Specifications for Road and Bridge Construction, adopted by the Department of Transportation.

701.14. Signs. Add the following paragraph to Article 701.14:

All warning signs shall have minimum dimensions of 1200 mm x 1200 mm (48" x 48") and have a black legend on a fluorescent orange reflectorized background, meeting, as a minimum, Type AP reflectivity requirements of Table 1091-2 in Article 1091.02.

BDE SPECIAL PROVISIONS

The following special provisions indicated by a “check mark” are applicable to this contract and are included by reference:

File Name	#		Special Provision Title	Effective	Revised
80099	1	<input type="checkbox"/>	Accessible Pedestrian Signals (APS)	April 1, 2003	April 1, 2020
80274	2	<input type="checkbox"/>	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2016
80192	3	<input type="checkbox"/>	Automated Flagger Assistance Device	Jan. 1, 2008	
80173	4	<input type="checkbox"/>	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	<input type="checkbox"/>	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	
80436	6	<input type="checkbox"/>	Blended Finely Divided Minerals	April 1, 2021	
80241	7	<input type="checkbox"/>	Bridge Demolition Debris	July 1, 2009	
50261	8	<input type="checkbox"/>	Building Removal-Case I (Non-Friable and Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50481	9	<input type="checkbox"/>	Building Removal-Case II (Non-Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50491	10	<input type="checkbox"/>	Building Removal-Case III (Friable Asbestos)	Sept. 1, 1990	April 1, 2010
50531	11	<input type="checkbox"/>	Building Removal-Case IV (No Asbestos)	Sept. 1, 1990	April 1, 2010
80425	12	<input type="checkbox"/>	Cape Seal	Jan. 1, 2020	Jan. 1, 2021
80384	13	<input type="checkbox"/>	Compensable Delay Costs	June 2, 2017	April 1, 2019
80198	14	<input type="checkbox"/>	Completion Date (via calendar days)	April 1, 2008	
80199	15	<input type="checkbox"/>	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80293	16	<input type="checkbox"/>	Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 5 Feet	April 1, 2012	July 1, 2016
80311	17	<input type="checkbox"/>	Concrete End Sections for Pipe Culverts	Jan. 1, 2013	April 1, 2016
80261	18	<input type="checkbox"/>	Construction Air Quality – Diesel Retrofit	June 1, 2010	Nov. 1, 2014
80387	19	<input type="checkbox"/>	Contrast Preformed Plastic Pavement Marking	Nov. 1, 2017	
80434	20	<input type="checkbox"/>	Corrugated Plastic Pipe (Culvert and Storm Sewer)	Jan. 1, 2021	
80029	21	<input type="checkbox"/>	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	March 2, 2019
80402	22	<input type="checkbox"/>	Disposal Fees	Nov. 1, 2018	
80378	23	<input type="checkbox"/>	Dowel Bar Inserter	Jan. 1, 2017	Jan. 1, 2018
80421	24	<input type="checkbox"/>	Electric Service Installation	Jan. 1, 2020	
80415	25	<input type="checkbox"/>	Emulsified Asphalts	Aug. 1, 2019	
80423	26	<input type="checkbox"/>	Engineer’s Field Office and Laboratory	Jan. 1, 2020	
80229	27	<input type="checkbox"/>	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80417	28	<input type="checkbox"/>	Geotechnical Fabric for Pipe Underdrains and French Drains	Nov. 1, 2019	
80420	29	<input type="checkbox"/>	Geotextile Retaining Walls	Nov. 1, 2019	
80433	30	<input type="checkbox"/>	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	
80304	31	<input type="checkbox"/>	Grooving for Recessed Pavement Markings	Nov. 1, 2012	Nov. 1, 2020
80422	32	<input type="checkbox"/>	High Tension Cable Median Barrier	Jan. 1, 2020	Nov. 1, 2020
80416	33	<input type="checkbox"/>	Hot-Mix Asphalt – Binder and Surface Course	July 2, 2019	Nov. 1, 2019
80398	34	<input type="checkbox"/>	Hot-Mix Asphalt – Longitudinal Joint Sealant	Aug. 1, 2018	Nov. 1, 2019
80406	35	<input type="checkbox"/>	Hot-Mix Asphalt – Mixture Design Verification and Production (Modified for I-FIT)	Jan. 1, 2019	Jan. 2, 2021
80347	36	<input type="checkbox"/>	Hot-Mix Asphalt – Pay for Performance Using Percent Within Limits – Jobsite Sampling	Nov. 1, 2014	July 2, 2019
80383	37	<input type="checkbox"/>	Hot-Mix Asphalt – Quality Control for Performance	April 1, 2017	July 2, 2019
80411	38	<input checked="" type="checkbox"/>	Luminaires, LED	April 1, 2019	
80393	39	<input type="checkbox"/>	Manholes, Valve Vaults, and Flat Slab Tops	Jan. 1, 2018	March 1, 2019
80045	40	<input type="checkbox"/>	Material Transfer Device	June 15, 1999	Aug. 1, 2014
80418	41	<input type="checkbox"/>	Mechanically Stabilized Earth Retaining Walls	Nov. 1, 2019	Nov. 1, 2020
80424	42	<input type="checkbox"/>	Micro-Surfacing and Slurry Sealing	Jan. 1, 2020	Jan. 1, 2021
80428	43	<input type="checkbox"/>	Mobilization	April 1, 2020	
80412	44	<input type="checkbox"/>	Obstruction Warning Luminaires, LED	Aug. 1, 2019	
80430	45	<input type="checkbox"/>	Portland Cement Concrete – Haul Time	July 1, 2020	
80359	46	<input type="checkbox"/>	Portland Cement Concrete Bridge Deck Curing	April 1, 2015	Nov. 1, 2019

80431	47	<input type="checkbox"/>	Portland Cement Concrete Pavement Patching	July 1, 2020	
80432	48	<input type="checkbox"/>	Portland Cement Concrete Pavement Placement	July 1, 2020	
80300	49	<input type="checkbox"/>	Preformed Plastic Pavement Marking Type D - Inlaid	April 1, 2012	April 1, 2016
34261	50	<input type="checkbox"/>	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	51	<input type="checkbox"/>	Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306	52	<input type="checkbox"/>	Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	Jan. 2, 2021
80407	53	<input type="checkbox"/>	Removal and Disposal of Regulated Substances	Jan. 1, 2019	Jan. 1, 2020
80419	54	<input checked="" type="checkbox"/>	Silt Fence, Inlet Filters, Ground Stabilization and Riprap Filter Fabric	Nov. 1, 2019	April 1, 2020
80395	55	<input type="checkbox"/>	Sloped Metal End Section for Pipe Culverts	Jan. 1, 2018	
80340	56	<input type="checkbox"/>	Speed Display Trailer	April 2, 2014	Jan. 1, 2017
80127	57	<input type="checkbox"/>	Steel Cost Adjustment	April 2, 2004	Aug. 1, 2017
80408	58	<input type="checkbox"/>	Steel Plate Beam Guardrail Manufacturing	Jan. 1, 2019	
80413	59	<input type="checkbox"/>	Structural Timber	Aug. 1, 2019	
80397	60	<input type="checkbox"/>	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	61	<input type="checkbox"/>	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
* 80437	62	<input type="checkbox"/>	Submission of Payroll Records	April 1, 2021	
* 80435	63	<input type="checkbox"/>	Surface Testing of Pavements – IRI	Jan. 1, 2021	April 1, 2021
80298	64	<input type="checkbox"/>	Temporary Pavement Marking	April 1, 2012	April 1, 2017
80409	65	<input checked="" type="checkbox"/>	Traffic Control Devices - Cones	Jan. 1, 2019	
80410	66	<input type="checkbox"/>	Traffic Spotters	Jan. 1, 2019	
20338	67	<input type="checkbox"/>	Training Special Provisions	Oct. 15, 1975	
80318	68	<input type="checkbox"/>	Traversable Pipe Grate for Concrete End Sections	Jan. 1, 2013	Jan. 1, 2018
80429	69	<input type="checkbox"/>	Ultra-Thin Bonded Wearing Course	April 1, 2020	
80288	70	<input type="checkbox"/>	Warm Mix Asphalt	Jan. 1, 2012	April 1, 2016
80302	71	<input type="checkbox"/>	Weekly DBE Trucking Reports	June 2, 2012	April 2, 2015
80414	72	<input type="checkbox"/>	Wood Fence Sight Screen	Aug. 1, 2019	April 1, 2020
80427	73	<input type="checkbox"/>	Work Zone Traffic Control Devices	Mar. 2, 2020	
80071	74	<input type="checkbox"/>	Working Days	Jan. 1, 2002	

## **LUMINAIRES, LED (BDE)**

Effective: April 1, 2019

**Description.** This work shall consist of furnishing and installing light emitting diode (LED) luminaires. Work shall be according to Sections 801, 821, and 1067 of the Standard Specifications, except as modified herein.

**Submittals.** In addition to the requirements listed in Article 801.05(a), submittals for LED luminaires shall include the following.

- Completed manufacturer's luminaire ordering form with the full catalog number provided.
- Descriptive literature and catalog cuts for the luminaire, driver, and surge protective device.
- Lighting calculations generated with AGi32 software demonstrating compliance with the Luminaire Performance Table shown in the contract. These calculations shall be performed to the following criteria: photopic units shall be used; calculations shall be performed to an accuracy of two digits ( $x.xx \text{ cd/m}^2$ ); point-by-point illuminance, luminance, and veiling luminance ratios demonstrating that the submitted luminaire meets the lighting metrics specified in the Luminaire Performance Table using IES RP-8 methods.

Upon request by the Engineer, submittals for LED Luminaires shall also include any or all the following.

- IES file associated with each submitted luminaire in IES LM-63 format.
- TM-21 calculator spreadsheet (XLSX or PDF format) and if available, TM-28 report for the specified luminaire or luminaire family. Both reports shall be for 50,000 hours at an ambient temperature of 77 °F (25 °C).
- LM-79 report with National Voluntary Laboratory Accreditation Program (NVLAP) current at the time of testing in PDF format inclusive of the following: isofootcandle diagram with half candela contour and maximum candela point; polar plots through maximum plane and maximum cone; coefficient of utilization graph; candela table; and spectral distribution graph and chromaticity diagram.
- LM-80 report for the specified LED package in PDF format and if available, LM-84 report for the specified luminaire or luminaire family in PDF format. Both reports shall be conducted by a laboratory with NVLAP certification current at the time of testing.
- In Situ Temperature Measurement Test (ISTMT) report for the specified luminaire or luminaire family in PDF format.
- Vibration test report in accordance with ANSI C136.31 in PDF format.

- ASTM B117/ASTM D1654 (neutral salt spray) test and sample evaluation report in PDF format.
- ASTM G154 (ASTM D523) gloss test report in PDF format.
- LED drive current, total luminaire input wattage, and current over the operating voltage range at an ambient temperature of 77 °F (25 °C).
- Power factor (pf) and total harmonic distortion (THD) at maximum and minimum supply and at nominal voltage for the dimmed states of 70%, 50%, and 30% full power.
- Ingress protection (IP) test reports, conducted according to ANSI C136.25 requirements, for the driver and optical assembly in PDF format.
- Installation, maintenance, and cleaning instructions in PDF format, including recommendations on periodic cleaning methods.
- Documentation in PDF format that the reporting laboratory is certified to perform the required tests.

**Warranty.** Replace the last sentence of Article 801.14(a) with the following.

“The warranty, including the maintained minimum luminance, for LED signal head modules, optically programmed LED signal head modules, and LED pedestrian signal head modules shall cover a minimum of 60 months from the date of delivery. The warranty for LED roadway luminaires, LED highmast luminaires, LED underpass luminaires, LED sign lighting luminaires, LED obstruction warning luminaires, and all of their components shall cover a minimum of ten years from the date of delivery.”

**Roadway Luminaires.** Revise Article 821.02(d) to read.

“(d) Light Source .....1067.06”

Revise the third paragraph of Article 821.03 to read.

“Each luminaire driver and/or driver arrangement shall be checked to assure compatibility with the project power supply. When the luminaire driver has a readily accessible electrical compartment, the driver shall be attached so as to be easily removed for maintenance.”

Replace the fifth paragraph of Article 821.03 with the following.

“No luminaire shall be installed before it is approved. When independent luminaire testing is required, full approval will not be given until complete test results which demonstrate compliance with the contract documents have been reviewed and accepted by the Engineer. Independent luminaire testing will be required, and shall be conducted, according to Article 1067.01(k)”.



Revise the last paragraph of Article 821.03 to read.

“When installing or adjusting the luminaire, care shall be taken to avoid touching the lenses or allowing contaminants to be deposited on any part of the optical assembly. Each lens shall be free of all dirt, smudges, etc. Should the luminaire require cleaning, the luminaire manufacturer’s cleaning instructions shall be strictly followed.”

Revise Article 821.08 to read.

**“821.08 Basis of Payment.** This work will be paid for at the contract unit price per each for LUMINAIRE, LED, ROADWAY, of the output designation specified; LUMINAIRE, LED, HIGHMAST, of the output designation specified; LUMINAIRE, LED, UNDERPASS, WALLMOUNT, of the output designation specified; LUMINAIRE, LED, UNDERPASS, SUSPENDED, of the output designation specified; LUMINAIRE, LED, SIGN LIGHTING, of the output designation specified.

When independent luminaire testing is required, the work will be paid for at the contract lump sum price for INDEPENDENT LUMINAIRE TESTING.”

**Luminaires.** Revise Articles 1067.01 through 1067.06 to read.

**“1067.01 General.** The luminaire shall be mechanically strong and easy to maintain. The size, weight, and shape of the luminaire shall be designed so as not to incite detrimental vibrations in its respective pole and it shall be compatible with the pole and arm. All electrical and electronic components of the luminaire shall comply with the requirements of Restriction of Hazardous Materials (RoHS) regulations. The luminaire shall be listed for wet locations by an NRTL and shall meet the requirements of UL 1598 and UL 8750.

- (a) Labels. An internal label shall be provided indicating the luminaire is suitable for wet locations and indicating the luminaire is an NRTL listed product to UL1598 and UL8750. The internal label shall also comply with the requirements of ANSI C136.22.

An external label consisting of two black characters on a white background with the dimensions of the label and the characters as specified in ANSI C136.15 for HPS luminaires. The first character shall be the alphabetical character representing the initial lumen output as specified in Table 1 of Article 1067.06(c). The second character shall be the numerical character representing the transverse light distribution type as specified in IES RP-8 (i.e. Types 1, 2, 3, 4, or 5).

- (b) Surge Protection. The luminaire shall comply the requirements of ANSI C136.2 for electrical transient immunity at the “Extreme” level (20KV/10KA) and shall be equipped with a surge protective device (SPD) that is UL1449 compliant with indicator light. An SPD failure shall open the circuit to protect the driver.

- (c) Optical Assembly. The optical assembly shall have an IP66 or higher rating in accordance with ANSI C136.25. The circuiting of the LED array shall be designed to minimize the effect of individual LED failures on the operation of other LEDs. All optical components shall be made of glass or a UV stabilized, non-yellowing material.
- (d) Housing. All external surfaces shall be cleaned in accordance with the manufacturer's recommendations and be constructed in such a way as to discourage the accumulation of water, ice, and debris.
- (e) Driver. The driver shall be integral to the luminaire and shall be capable of receiving indefinite open and short circuit output conditions without damage.

The driver shall incorporate the use of thermal foldback circuitry to reduce output current under abnormal driver case temperature conditions and shall be rated for a lifetime of 100,000 hours at an ambient temperature exposure of 77 °F (25 °C) to the luminaire. If the driver has a thermal shut down feature, it shall not turn off the LEDs when operated at 104 °F (40 °C) or less.

The driver shall have an input voltage range of 120 to 277 volts ( $\pm 10\%$ ) or 347 to 480 volts ( $\pm 10\%$ ) according to the contract documents. When the driver is operating within the rated input voltage range and in an un-dimmed state, the power factor measurement shall be not less than 0.9 and the THD measurement shall be no greater than 20%.

The driver shall meet the requirements of the FCC Rules and Regulations, Title 47, Part 15 for Class A devices with regard to electromagnetic compatibility. This shall be confirmed through the testing methods in accordance with ANSI C63.4 for electromagnetic interference.

The driver shall be dimmable using the protocol listed in the Luminaire Performance Table shown in the contract.

- (f) Photometric Performance. The luminaire shall be IES LM-79 tested by a laboratory holding accreditation from the NVLAP for IES LM-79 testing procedures. At a minimum the LM-79 report shall include a backlight/uplight/glare (BUG) rating and a luminaire classification system (LCS) graph showing lumen values and percent lumens by zone as described in IES RP-8. The uplight of the BUG rating shall be U=0.

The luminaire shall also meet the requirements of the Luminaire Performance Table shown in the contract.

- (g) Finish. The luminaire shall have a baked acrylic enamel finish. The color of the finish shall be gray, bronze, or black to match the pole or tower on which the luminaire is mounted.

The finish shall have a rating of six or greater according to ASTM D1654, Section 8.0 Procedure A – Evaluation of Rust Creepage for Scribed Samples after exposure to

1000 hours of testing according to ASTM B117 for painted or finished surfaces under environmental exposure.

The luminaire finish shall have less than or equal to 30% reduction of gloss according to ASTM D523 after exposure of 500 hours to ASTM G154 Cycle 6 QUV® accelerated weathering testing.

- (h) Hardware. All hardware shall be stainless steel or of other corrosion resistant material approved by the Engineer.

Luminaires shall be designed to be easily serviced, having fasteners such as quarter-turn clips of the heavy spring-loaded type with large, deep straight slot heads, complete with a receptacle and shall be according to military specification MIL-f-5591.

All hardware shall be captive and not susceptible to falling from the luminaire during maintenance operations. This shall include lens/lens frame fasteners as well hardware holding the removable driver and electronic components in place.

- (i) Vibration Testing. All luminaires shall be subjected to and pass vibration testing requirements at “3G” minimum zero to peak acceleration in accordance with ANSI C136.31 requirements using the same luminaire. To be accepted, the luminaire housing, hardware, and each individual component shall pass this test with no noticeable damage and the luminaire must remain fully operational after testing.
- (j) Wiring. All wiring in the luminaire shall be rated for operation at 600V, 221 °F (105 °C).
- (k) Independent Luminaire Testing. When a contract has 30 or more luminaires of the same manufacturer’s catalog number, that luminaire shall be independently tested to verify it will meet the contract requirements. The quantity of luminaires requiring testing shall be one luminaire for the first 30 plus one additional luminaire for each additional 50 luminaires of that catalog number. Testing is not required for temporary lighting luminaires.

Prior to testing the Contractor shall propose a properly accredited laboratory and a qualified independent witness, submitting their qualifications to the Engineer for approval. After approval, the Contractor shall coordinate the testing and pay all associated costs, including travel expenses, for the independent witness.

- (1) Independent Witness. The independent witness shall select from the project luminaires at the manufacturer’s facility the luminaires for testing. In all cases, the selection of luminaires shall be a random selection from the entire completed lot of luminaires required for the contract. Selections from partial lots will not be allowed. The independent witness shall mark each sample luminaire’s shipping carton with the IDOT contract number and a unique sample identifier.

At the time of random selection, the independent witness shall inspect the luminaire(s) for compliance with all physical, mechanical, and labeling requirements for luminaires

according to Sections 821 and 1067. If deficiencies are found during the physical inspection, the Contractor shall have all luminaires of that manufacturer's catalog number inspected for the identified deficiencies and shall correct the problem(s) where found. Random luminaire selection and physical inspection must then be repeated. When the physical inspection is successfully completed, the independent witness shall mark the project number and sample identifier on the interior housing and driver of the luminaires and have them shipped to the laboratory.

The independent witness shall be present when testing is approved to be performed by the luminaire manufacturer. If the tests are performed by a laboratory independent of the luminaire manufacturer, distributor, and Contractor, the independent witness need not be present during the testing.

- (2) Laboratory Testing. Luminaires shall be tested at an NVLAP accredited laboratory approved for each of the required tests. The testing shall include photometric, colorimetric, and electrical testing according to IES LM-79. Colorimetric values shall be determined from total spectral radiant flux measurements using a spectroradiometer. Photometric testing shall be according to IES recommendations and as a minimum, shall yield an isofootcandle chart, with max candela point and half candela trace indicated, an isocandela diagram, maximum plane and maximum cone plots of candela, a candlepower table (house and street side), a coefficient of utilization chart, a luminous flux distribution table, BUG rating report, and complete calculations based on specified requirements and test results.

All testing shall cover the full spherical light output at a maximum of 5 degree intervals at the vertical angles. The vertical angles shall run from 0 to 180 degrees. There shall be a minimum of 40 lateral test planes listed in Fig. 1 of IES LM-31 plus the two planes containing the maximum candela on the left and right sides of the luminaire axis. Before testing, the luminaire when mounted on the goniometer shall be scanned for vertical and horizontal angles of maximum candela and these planes included in the test. The luminaire shall be checked for a bi-symmetric light distribution. Individual tests must be conducted for each hemisphere, quadrant, and left/right sides.

The results for each photometric and colorimetric test performed shall be presented in a standard IES LM-79 report that includes the contract number, sample identifier, and the outputs listed above. The calculated results for each sample luminaire shall meet or exceed the contract specified levels in the luminaire performance table(s). The laboratory shall mark its test identification number on the interior of each sample luminaire.

Electrical testing shall be in according to IES LM-79 as well as NEMA and ANSI standards. The report shall list luminaire characteristics including input amperes, watts, power factor, total harmonic distortion, and LED driver current for full and partial power.

- (3) Summary Test Report. The summary test report shall consist of a narrative documenting the test process, highlight any deficiencies and corrective actions, and clearly state which luminaires have met or exceeded the test requirements and may be released for delivery to the jobsite. Photographs shall also be used as applicable to document luminaire deficiencies and shall be included in the test report. The summary test report shall include the Luminaire Physical Inspection Checklist (form BDE 5650), photometric and electrical test reports, and point-by-point photometric calculations performed in AGi32 sorted by luminaire manufacturers catalog number. All test reports shall be certified by the independent test laboratory's authorized representative or the independent witness, as applicable, by a dated signature on the first page of each report. The summary test reports shall be delivered to the Engineer and the Contractor as an electronic submittal. Hard copy reports shall be delivered to the Engineer for record retention.
- (4) Approval of Independent Testing Results. Should any of the tested luminaires fail to satisfy the specifications and perform according to approved submittal information, all luminaires of that manufacturers catalog number shall be deemed unacceptable and shall be replaced by alternate equipment meeting the specifications. The submittal and testing process shall then be repeated in its entirety. The Contractor may request in writing that unacceptable luminaires be corrected in lieu of replacement. The request shall identify the corrections to be made and upon approval of the request, the Contractor shall apply the corrections to the entire lot of unacceptable luminaires. Once the corrections are completed, the testing process shall be repeated, including selection of a new set of sample luminaires. The number of luminaires to be tested shall be the same quantity as originally tested.

The process of retesting, correcting, or replacing luminaires shall be repeated until luminaires for each manufacturers catalog number are approved for the project. Corrections and re-testing shall not be grounds for additional compensation or extension of time. No luminaires shall be shipped from the manufacturer to the jobsite until all luminaire testing is completed and approved in writing.

Submittal information shall include a statement of intent to provide the testing as well as a request for approval of the chosen independent witness and laboratory. All summary test reports, written reports, and the qualifications of the independent witness and laboratory shall be submitted for approval to the Engineer with a copy to the Bureau of Design and Environment, 2300 S Dirksen Parkway, Room 330 Springfield, IL 62764.

**1067.02 Roadway Luminaires.** Roadway luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed to slip-fit on a 2-3/8 in. (60 mm) outside diameter pipe arm with a stop to limit the amount of insertion to 7 in. (180 mm). It shall not be necessary to remove or open more than the access door to mount the luminaire.

The effective projected area (EPA) of the luminaire shall not exceed 1.6 sq ft (0.149 sq m) and the weight, including accessories, shall not exceed 40 lb (18.14 kg). If the weight of the luminaire is less than 20 lb (9.07 kg), weight shall be added to the mounting arm or a supplemental vibration damper installed as approved by the Engineer.

The luminaire shall be equipped with both internal and external leveling indicators. The external leveling indicator shall be clearly visible in daylight to an observer directly under the luminaire at a mounting height of 50 ft (15.2 m).

The luminaire shall be fully prewired to accept a seven-pin, twist-lock receptacle that is compliant with ANSI C136.41. All receptacle pins shall be connected according to TALQ Consortium protocol.

The luminaire shall be provided with an installed shorting cap that is compliant with ANSI C136.10.

**1067.03 Highmast Luminaires.** Highmast luminaires shall be according to Article 1067.01 and the following.

The luminaire shall be horizontally mounted and shall be designed and manufactured for highmast tower use. The EPA of the luminaire shall not exceed 3.0 sq ft (0.279 sq m) and the weight, including accessories, shall not exceed 85 lb (38.6 kg).

The optical assembly shall be capable of being rotated 360 degrees. A vernier scale shall be furnished on the axis of rotation for aiming the luminaire in relation to its mounting tenon arm. The scale shall be graduated in 5 degree increments or less. The luminaire shall be clearly marked at the vernier as to 'house-side' and 'street-side' to allow proper luminaire orientation.

**1067.04 Underpass Luminaires.** Underpass luminaries shall be according to Article 1067.01 and the following.

The underpass luminaire shall be complete with all supports, hardware, and appurtenant mounting accessories. The underpass luminaire shall be suitable for lighting a roadway underpass at an approximate mounting height of 15 ft (4.5 m) from a position suspended directly above the roadway edge of pavement or attached to a wall or pier. The underpass luminaire shall meet the requirements of ANSI C136.27.

It shall not be necessary to remove more than the cover, reflector and lens to mount the luminaire. The unit shall be heavy duty, suitable for highway use and shall have no indentations or crevices in which dirt, salt, or other corrosives may collect.

- (a) Housing. The housing and lens frame shall be made of heavy duty die cast aluminum or 16 gauge (1.5 mm) minimum thickness Type 304 stainless steel. All seams in the housing enclosure shall be welded by continuous welds.

The housing shall have an opening for installation of a 3/4 in. (19 mm) diameter conduit.

(b) Lens and Lens Frame. The frame shall not overlap the housing when closed. The luminaire shall have a flat glass lens to protect the LEDs from dirt accumulation or be designed to prevent dirt accumulation. The optic assembly shall be rated IP 66 or higher.

**1067.05 Sign Lighting Luminaires.** Sign lighting luminaires shall be suitable for lighting overhead freeway and expressway guide signs; and shall be according to Article 1067.01.

**1067.06 Light Sources.** The light sources in all luminaires shall be LED according to Article 1067.01 and the following.

- (a) The light source shall be according to ANSI C136.37 for solid state light sources used in roadway and area lighting.
- (b) The light source shall have a minimum color rendering index (CRI) of 70 and a nominal correlated color temperature (CCT) of 4000 K.
- (c) The rated initial luminous flux (lumen output) of the light source, as installed in the luminaire, shall be according to the following table for each specified output designation.

Output Designations and Initial Luminous Flux		(for information only)
Output Designation	Initial Luminous Flux (lm)	Approximate High Pressure Sodium (HPS) Equivalent Wattage
A	2,200	35 (Low Output)
B	3,150	50 (Low Output)
C	4,400	70 (Low Output)
D	6,300	100 (Low Output)
E	9,450	150 (Low Output)
F	12,500	200 (Med Output)
G	15,500	250 (Med Output)
H	25,200	400 (Med Output)
I	47,250	750 (High Output)
J	63,300	1,000 (High Output)
K	80,000+	1,000+ (High Output)

Luminaires with an initial luminous flux less than the values listed in the above table may be acceptable if they meet the requirements given in the Luminaire Performance Table shown in the contract.”



**SILT FENCE, INLET FILTERS, GROUND STABILIZATION AND RIPRAP FILTER FABRIC (BDE)**

Effective: November 1, 2019

Revised: April 1, 2020

Revise Article 280.02(m) and add Article 280.02(n) so the Standard Specifications read:

“(m) Above Grade Inlet Filter (Fitted)..... 1081.15(j)  
 (n) Above Grade Inlet Filter (Non-Fitted).....1081.15(k)”

Revise the last sentence of the first paragraph in Article 280.04(c) of the Standard Specifications to read:

“The protection shall be constructed with hay or straw bales, silt filter fence, above grade inlet filters (fitted and non-fitted), or inlet filters.

Revise the first sentence of the second paragraph in Article 280.04(c) of the Standard Specifications to read:

“When above grade inlet filters (fitted and non-fitted) are specified, they shall be of sufficient size to completely span and enclose the inlet structure.”

Revise Article 1080.02 of the Standard Specifications to read:

**“1080.02 Geotextile Fabric.** The fabric for silt filter fence shall consist of woven fabric meeting the requirements of AASHTO M 288 for unsupported silt fence.

The fabric for ground stabilization shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 2 and nonwoven fabrics shall be Class 1 according to AASHTO M 288.

The physical properties for silt fence and ground stabilization fabrics shall be according to the following.

PHYSICAL PROPERTIES			
	Silt Fence Woven <sup>1/</sup>	Ground Stabilization Woven <sup>2/</sup>	Ground Stabilization Nonwoven <sup>2/</sup>
Grab Strength, lb (N) <sup>3/</sup> ASTM D 4632	123 (550) MD 101 (450) XD	247 (1100) min. <sup>4/</sup>	202 (900) min. <sup>4/</sup>
Elongation/Grab Strain, % ASTM D 4632 <sup>4/</sup>	49 max.	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>4/</sup>	--	90 (400) min.	79 (350) min.



Puncture Strength, lb (N) ASTM D 6241 <sup>4/</sup>	--	494 (2200) min.	433 (1925) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>5/</sup>	30 (0.60) max.	40 (0.43) max.	40 (0.43) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	0.05 min.		
Ultraviolet Stability, % retained strength after 500 hours of exposure ASTM D 4355	70 min.	50 min.	50 min.

- 1/ NTPEP results or manufacturer’s certification to meet test requirements.
- 2/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP’s DataMine.
- 3/ MD = Machine direction. XD = Cross-machine direction.
- 4/ Values represent the minimum average roll value (MARV) in the weaker principle direction, MD or XD.
- 5/ Values represent the maximum average roll value.”

Revise Article 1080.03 of the Standard Specifications to read:

**“1080.03 Filter Fabric.** The filter fabric shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 3 for riprap gradations RR 4 and RR 5, and Class 2 for RR 6 and RR 7 according to AASHTO M 288. Woven slit film geotextiles (i.e. geotextiles made from yarns of a flat, tape-like character) shall not be permitted. Nonwoven fabrics shall be Class 2 for riprap gradations RR 4 and RR 5, and Class 1 for RR 6 and RR 7 according to AASHTO M 288. After forming, the fabric shall be processed so that the yarns or filaments retain their relative positions with respect to each other. The fabric shall be new and undamaged.

The filter fabric shall be manufactured in widths of not less than 6 ft (2 m). Sheets of fabric may be sewn together with thread of a material meeting the chemical requirements given for the yarns or filaments to form fabric widths as required. The sheets of filter fabric shall be sewn together at the point of manufacture or another approved location.

The filter fabric shall be according to the following.

PHYSICAL PROPERTIES <sup>1/</sup>				
	Gradation Nos. RR 4 & RR 5		Gradation Nos. RR 6 & RR 7	
	Woven	Nonwoven	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>2/</sup>	180 (800) min.	157 (700) min.	247 (1100) min.	202 (900) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>2/</sup>	49 max.	50 min.	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>2/</sup>	67 (300) min.	56 (250) min.	90 (400) min.	79 (350) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>2/</sup>	370 (1650) min.	309 (1375) min.	494 (2200) min.	433 (1925) min.
Ultraviolet Stability, % retained strength after 500 hours of exposure - ASTM D 4355	50 min.			

1/ NTPEP results to meet test requirements. Manufacturer shall have public release status and current reports on laboratory results in Test Data of NTPEP's DataMine.

2/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

As determined by the Engineer, the filter fabric shall meet the requirements noted in the following after an onsite investigation of the soil to be protected.

Soil by Weight (Mass) Passing the No. 200 sieve (75 µm), %	Apparent Opening Size, Sieve No. (mm) - ASTM D 4751 <sup>1/</sup>	Permittivity, sec <sup>-1</sup> ASTM D 4491
49 max.	60 (0.25) max.	0.2 min.
50 min.	70 (0.22) max.	0.1 min.

1/ Values represent the maximum average roll value.”

Revise Article 1081.15(h)(3)a of the Standard Specifications to read:

“a. Inner Filter Fabric Bag. The inner filter fabric bag shall be constructed of woven yarns or nonwoven filaments made of polyolefins or polyesters with a minimum silt and debris capacity of 2.0 cu ft (0.06 cu m). Woven fabric shall be Class 3 and nonwoven fabric shall be Class 2 according to AASHTO M 288. The fabric bag shall be according to the following.

PHYSICAL PROPERTIES		
	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>1/</sup>	180 (800) min.	157 (700) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>1/</sup>	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>1/</sup>	67 (300) min.	56 (250) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>1/</sup>	370 (1650) min.	309 (1375) min.
Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>2/</sup>	60 (0.25) max.	
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.	
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.	

1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

2/ Values represent the maximum average roll value.”

Revise Article 1081.15(i)(1) of the Standard Specifications to read:

“(i) Urethane Foam/Geotextile. Urethane foam/geotextile shall be triangular shaped having a minimum height of 10 in. (250 mm) in the center with equal sides and a minimum 20 in. (500 mm) base. The triangular shaped inner material shall be a low density urethane foam. The outer geotextile fabric cover shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters placed around the inner material and shall extend beyond both sides of the triangle a minimum of 18 in. (450 mm). Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288.

(1) The geotextile shall meet the following properties.

PHYSICAL PROPERTIES		
	Woven	Nonwoven
Grab Strength, lb (N) ASTM D 4632 <sup>1/</sup>	180 (800) min.	157 (700) min.
Elongation/Grab Strain, % ASTM D 4632 <sup>1/</sup>	49 max.	50 min.
Trapezoidal Tear Strength, lb (N) ASTM D 4533 <sup>1/</sup>	67 (300) min.	56 (250) min.
Puncture Strength, lb (N) ASTM D 6241 <sup>1/</sup>	370 (1650) min.	309 (1375) min.

Apparent Opening Size, Sieve No. (mm) ASTM D 4751 <sup>2/</sup>	30 (0.60) max.
Permittivity, sec <sup>-1</sup> ASTM D 4491	2.0 min.
Ultraviolet Stability, % retained strength after 500 hours of exposure – ASTM D 4355	70 min.

1/ Values represent the minimum average roll value (MARV) in the weaker principle direction [machine direction (MD) or cross-machine direction (XD)].

2/ Values represent the maximum average roll value.”

Add the following to Article 1081.15(i) of the Standard Specifications.

“(3) Certification. The manufacturer shall furnish a certificate with each shipment of urethane foam/geotextile assemblies stating the amount of product furnished and that the material complies with these requirements.”

Revise the title and first sentence of Article 1081.15(j) of the Standards Specifications to read:

“(j) Above Grade Inlet Filters (Fitted). Above grade inlet filters (fitted) shall consist of a rigid polyethylene frame covered with a fitted geotextile filter fabric.”

Revise Article 1081.15(j)(2) of the Standard Specifications to read:

(2) Fitted Geotextile Filter Fabric. The fitted geotextile filter fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. Woven filter fabric shall be Class 3 and nonwoven filter fabric shall be Class 2 according to AASHTO M 288. The filter shall be fabricated to provide a direct fit to the frame. The top of the filter shall integrate a coarse screen with a minimum apparent opening size of 1/2 in. (13 mm) to allow large volumes of water to pass through in the event of heavy flows. The filter shall have integrated anti-buoyancy pockets capable of holding a minimum of 3.0 cu ft (0.08 cu m) of stabilization material. Each filter shall have a label with the following information sewn to or otherwise permanently adhered to the outside: manufacturer’s name, product name, and lot, model, or serial number. The fitted geotextile filter fabric shall be according to the table in Article 1081.15(h)(3)a above.”

Add Article 1081.15(k) to the Standard Specifications to read:

“(k) Above Grade Inlet Filters (Non-Fitted). Above grade inlet filters (non-fitted) shall consist of a geotextile fabric surrounding a metal frame. The frame shall consist of either a) a circular cage formed of welded wire mesh, or b) a collapsible aluminum frame, as described below.

(1) Frame Construction.

- a) Welded Wire Mesh Frame. The frame shall consist of 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh formed of #10 gauge (3.42 mm) steel conforming to ASTM A 185. The mesh shall be 30 in. (750 mm) tall and formed into a 42 in. (1.05 m) minimum diameter cylinder.
  - b) Collapsible Aluminum Frame. The collapsible aluminum frame shall consist of grade 6036 aluminum. The frame shall have anchor lugs that attach it to the inlet grate, which shall resist movement from water and debris. The collapsible joints of the frame shall have a locking device to secure the vertical members in place, which shall prevent the frame from collapsing while under load from water and debris.
- (2) Geotextile Fabric. The geotextile fabric shall consist of woven yarns or nonwoven filaments made of polyolefins or polyesters. The woven filter fabric shall be a Class 3 and the nonwoven filter fabric shall be a Class 2 according to AASHTO M 288. The geotextile fabric shall be according to the table in Article 1081.15(h)(3)a above.
- (3) Geotechnical Fabric Attachment to the Frame.
- a) Welded Wire Mesh Frame. The woven or nonwoven geotextile fabric shall be wrapped 3 in. (75 mm) over the top member of a 6 in. x 6 in. (150 mm x 150 mm) welded wire mesh frame and secured with fastening rings constructed of wire conforming to ASTM A 641, A 809, A 370, and A 938 at 6 in. (150 mm) on center. The fastening rings shall penetrate both layers of geotextile and securely close around the steel mesh. The geotextile shall be secured to the sides of the welded wire mesh with fastening rings at a spacing of 1 per sq ft (11 per sq m) and securely close around a steel member.
  - b) Collapsible Aluminum Frame. The woven or nonwoven fabric shall be secured to the aluminum frame along the top and bottom of the frame perimeter with strips of aluminum secured to the perimeter member, such that the anchoring system provides a uniformly distributed stress throughout the geotechnical fabric.
- (4) Certification. The manufacturer shall furnish a certificate with each shipment of above grade inlet filter assemblies stating the amount of product furnished and that the material complies with these requirements.”

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## **TRAFFIC CONTROL DEVICES - CONES (BDE)**

Effective: January 1, 2019

Revise Article 701.15(a) of the Standard Specifications to read:

“(a) Cones. Cones are used to channelize traffic. Cones used to channelize traffic at night shall be reflectorized; however, cones shall not be used in nighttime lane closure tapers or nighttime lane shifts.”

Revise Article 1106.02(b) of the Standard Specifications to read:

“(b) Cones. Cones shall be predominantly orange. Cones used at night that are 28 to 36 in. (700 to 900 mm) in height shall have two white circumferential stripes. If non-reflective spaces are left between the stripes, the spaces shall be no more than 2 in. (50mm) in width. Cones used at night that are taller than 36 in. (900 mm) shall have a minimum of two white and two fluorescent orange alternating, circumferential stripes with the top stripe being fluorescent orange. If non-reflective spaces are left between the stripes, the spaces shall be no more than 3 in. (75 mm) in width.

The minimum weights for the various cone heights shall be 4 lb for 18 in. (2 kg for 450 mm), 7 lb for 28 in. (3 kg for 700 mm), and 10 lb for 36 in. (5 kg for 900 mm) with a minimum of 60 percent of the total weight in the base. Cones taller than 36 in. shall be weighted per the manufacturer’s specifications such that they are not moved by wind or passing traffic.”

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## EXHIBIT B

### SECTION 4 - GENERAL INSTRUCTIONS; PROPOSAL CONTENT; FORMAT; SUBMISSION

#### 4. GENERAL INSTRUCTIONS:

**4.1. DUE DATE AND TIME:** No Proposal shall be considered if it is received by the contact person after the due date and time specified on Page 1 of the Request.

**4.1.1. Format:** All Proposals must follow the format described in this Exhibit B. Respondents shall provide information requested by this Request in a direct and concise manner. Responses shall refer directly to section numbers in this Request and meet or exceed the requirements as described in this Request.

**4.1.2. Guaranteed Proposals:** All Proposals must be guaranteed and the City will not accept conditional or qualified Proposals unless provided otherwise in this Request.

**4.1.3. Completion of Forms:** All blank spaces in any form document included in the Proposal must be filled in by using a typewriter, indelible ink, or word processor. Where amounts are given in both words and figures, the words will govern if there is a discrepancy between the words and figures. If there is a discrepancy between the total price amount and the sum of the unit prices, the sum of the unit price will govern. The person signing the Proposal must initial any changes or corrections made on the Proposal if changes are made by typewriter or indelible ink after printing.

**4.1.4. Authorization to Submit Proposal:** A responsible person must sign the Proposal and, in the case of a business entity or firm, represent and warrant that the signer is duly authorized to sign the Proposal on behalf of the Respondent. For Proposals tendered by e-mail, this signature should be scanned and included with the Proposal document.

**4.1.5. Acceptance/Rejection:** The City's decision to accept or reject any or all Proposals or portions thereof shall be final.

**4.1.6. Clarification of Proposal:** Subsequent to receipt of Proposals, the City may require the Respondents to clarify or explain their Proposals or any part or parts thereof by way of a telephone conference, e-mail, in-person conference, or in writing.

#### 4.2. PROPOSAL CONTENT AND FORMAT:

**4.2.1. Respondent's Information:** The Proposal must include:

Respondent's name, address, telephone number, e-mail address, and website (if any).

Respondent must also specify contact person and his/her name, address, telephone number, mobile number, and e-mail address.

**4.2.2. Addressing Specifications (Exhibit A):** Respondent must address each Specification contained in Exhibit A. If any part of Respondent's Proposal proposes one or more deviations from the Specifications (Exhibit A), the Respondent must provide sufficient information for each Specification for which a deviation is proposed, a sufficiently clear description of the deviation for the City to understand what is proposed and an explanation insofar as how the Respondent's proposed deviation is of equal or better quality than the City's Specification.

**4.2.3. Pricing Information:**

**4.2.3.1.** The Proposal must include a price quote. In the event that the aforesaid includes components or discrete parts, the Proposal must include an aggregate price quote as well as pricing for each component or discrete part.

**4.2.3.2.** The aggregate price must include costs of transportation, handling charges, set-up charges, cost of warranty, and all other charges. These items must also be itemized.

**4.2.3.3.** If the cost of travel is included in the pricing information, the estimated cost for such travel and detailed information used to compute such estimated cost shall be itemized separately. In the event the Respondent anticipates that overnight stays in connection with Proposal, if accepted, will be required, the City requests that, where reasonable, all persons staying overnight do so at a hotel or motel located within the Urbana city limits.

**4.2.3.4.** All prices must be guaranteed for a period of ninety (90) days.

**4.2.4. References:** Respondents may be asked to provide references. If requested, the Respondent must provide, for each reference, the business name, address, telephone number, e-mail address, business website, and name of the individual to be contacted and, if different from the foregoing, the individual's address, telephone number, and e-mail address.

**4.2.5. Amendments to Request:** In the event that the City issues any changes to its Request following the publication or issuance date, as the case may be, listed on Page 1 of this Request, it will do so through one or more addenda which will be sent to those Respondents that have expressed interest in submitting Proposals.

**4.2.6. Use of Subcontractors:** The names, addresses, telephone numbers, e-mails, and websites (if any) and the names of contact persons of all subcontractors which the Respondent anticipates using in performance of work requested in the Request.



### **4.3 SUBMITTING PROPOSALS:**

**4.3.1. Proposal Submissions by Mail, Hand-Delivery, or Courier Service:** If a Proposal will be submitted by mail, hand-delivered, or by courier service, the Proposal shall be submitted in a sealed opaque envelope bearing the following information: Name, address, and phone number of Respondent; Solicitation name, title, and number, if any; and Proposal opening date and time as specified on Page 1 of the Request. The aforesaid envelope should then be placed in another envelope that is addressed to the contact person designated on Page 1 of the Request.

**4.3.2. Proposal Submissions by E-Mail:** If a Proposal will be submitted by electronic mail (e-mail), the Respondent shall send to the contact person listed on Page of the Request the Proposal as a PDF attachment to an e-mail. The PDF Proposal shall be password protected at the time of sending to the contact person. At the same time the password protected Proposal is sent, the Respondent shall send the contact person an e-mail that contains the password necessary to open and download the Proposal by the contact person. The e-mail containing the password shall be sent in such a manner so that it arrives within the two (2) hour period immediately preceding the Proposal public opening date and time stated on Page 1 of the Request. If no public opening date is provided, the e-mail containing the password shall be sent to the contact person listed on Page 1 of the Request no later than 10:00 a.m. Central Time.

**4.4. ASSUMPTION OF RISK:** Regardless of the means and method by which Respondent uses to send the Proposal, Respondent assumes all risks of errors in sending and delay caused when or by sending Respondent's Proposal for receipt by the contact person listed on Page 1 of the Request after the date and time specified on Page 1 of the Request. The City shall have no responsibility should Respondent's Proposal be received after the date and time specified on Page 1 of the Request for the City's receipt of Proposals.

## EXHIBIT C

### SECTION 5 - EVALUATION CRITERIA

- 5.1. PUBLIC OPENING OF PROPOSALS:** The City will conduct a public opening of the Proposals at the date, time and location specified on Page 1 of the Request. The public opening will include a reading of each Respondent's name and the respective aggregate prices which the Respondents submitted. No other contents of Respondents' Proposals will be disclosed at this time.
- 5.2. TREATMENT OF PROPOSALS:** Until such time as the City has entered into and executed a Contract with a Respondent or has fully rejected all the Proposals, the Proposals will be subject to Section 7(h) of the Freedom of Information Act. 5 ILCS 140/7(h) governing "proposals and bids for any contract."
- 5.3. EVALUATION CRITERIA:** The City will evaluate the Proposal(s) following the date and time when opened, whether or not such opening occurs in public. The evaluation will be conducted before the Proposals expire and will be based on and but may not be limited to the following criteria.
- 5.3.1. Completeness:** Degree of completeness of the Proposal.
- 5.3.2. Compliance with/Deviations from Specifications:** Degree of compliance with the Specifications included on Exhibit A. In the event any Specification is not complied with, the City will consider the Respondent's proposed substitute and whether it is of equal or better quality than the particular Specification.
- 5.3.3. Price:** The City will consider the aggregate price and, if provided, component pricing included in each Proposal.
- 5.3.4. Other Criteria:** In addition to the above, the City may consider the following additional criteria:
- 5.3.4.1.** The experience of the Respondent in undertaking and completing projects similar to that which is being sought by the City, as requested in this Request.
- 5.3.4.2.** To the extent the City has had performance and/or delivery problems or disputes with the Respondent in the past, the Respondent's cooperation in resolving such problems or disputes to the satisfaction of the City
- 5.3.4.3.** Completion and approval of the Respondents EEO paperwork.

**5.4. INVESTIGATIONS:** The City may undertake such investigations and other due diligence regarding Respondent and Respondent's Proposal as it deems necessary and appropriate. Such investigation may include, but is not limited to, contacting any reference supplied by the Respondent or any customer/client known to the City which has obtained goods, services, labor and/or materials from Respondent similar to those described in this Request. The City reserves the right to reject any Proposal if the evidence submitted by, or investigation of such Respondent fails to satisfy the City that Respondent is properly qualified meet the requirements contained in this Request.

**5.5. DEFAULT ON OBLIGATIONS TO CITY:** No Proposal will be considered if the Respondent is in arrears or is in default on any obligation, tax, fee, or fine due and owing to the City or is in breach of any agreement to which the City is a party which breach has not been fully cured to the satisfaction of the City.

## EXHIBIT D

### SECTION 8 – GENERAL LEGAL MATTERS

**8.1. RIGHTS TO PROPOSALS AND SUPPORTING MATERIALS:** All Proposals and related information provided by Respondents shall become the property of the City when received and shall not be returned to the Respondent. However, in the event any Respondent has a documentable statutory or common law intellectual property right (e.g., patent, copyright, trademark, service mark, etc.) in any part of the Respondent’s Proposal or supporting materials which is or are not otherwise in the public domain, the submission of the Respondent’s Proposal shall not be deemed or construed as a waiver, release, or transfer to the City of the Respondent’s intellectual property rights.

**8.2. PUBLIC RECORDS; CONFIDENTIAL INFORMATION:**

**8.2.1. Application of Freedom of Information Act After Award:** Following the selection of and the execution of a Contract with the Successful Respondent, if any, all Proposals will be available to the public upon receipt of a valid Freedom of Information Act (“FOIA”) (5 ILCS 140/1 et seq.) request and other applicable laws and rules except as provided below.

**8.2.2. Confidential Information:** A Respondent may not designate an entire proposal as confidential in order to avoid having it produced in response to the City’s receipt of a request for information under the Freedom of Information Act (5 ILCS 140/1 et seq., “FOIA”). If a Respondent believes that it has a lawful basis for designating certain information in the Respondent’s Proposal as confidential, proprietary or trade secret, as defined in the Illinois Trade Secret Act (765 ILCS 1065/1 et seq.), the Respondent must specifically label each page of the Proposal that contains such information with a legend stating: “CONFIDENTIAL INFORMATION.” The Respondent must also provide sufficient information to the City to establish the confidentiality of the information labeled as such since the City will have no obligation to ascertain whether such information is in fact exempt from production under FOIA. Respondent’s request for confidential treatment of information in a Proposal shall not supersede the City’s legal obligations under FOIA.

**8.2.3. Confidential Proposals:** The City will neither accept nor consider any Proposal which indicates that it should be treated confidential, proprietary or trade secret in its entirety.

**8.2.4. Submission of Confidential Information:** If a Respondent requests that a portion of its Proposal be treated as confidential, proprietary or trade secret, the Respondent must submit an additional copy of the Proposal with that information deleted. This copy must state the general nature of the material deleted and shall retain as much of the Proposal as possible.

**8.2.5. Costs of Claiming Confidentiality:** Each Respondent shall be responsible for any costs which the City incurs in defending a request for Proposal information which the

Respondent has marked as “CONFIDENTIAL INFORMATION.” In the event that the City receives a FOIA request which seeks disclosure of that portion of a Proposal which contains information designated as confidential and the Respondent requests the City to withhold that information from disclosure, the Respondent shall cooperate with the City to the degree necessary for the City to assert the appropriate FOIA exemption when responding to the FOIA requester and the Illinois Attorney General’s Office, as the case may be.

**8.2.6. Intellectual Property Rights of Others:** By submitting a Proposal, the Respondent represents and warrants that anything contained in the Proposal does not violate any intellectual property right (e.g., patent, copyright, trademark, service mark, etc.) owned by any other person.

**8.3. COSTS OF SUBMITTING PROPOSAL:** The Respondent shall be responsible for any and all costs and expenses in connection with his/her preparation and submission of his/her Proposal.

**8.4. LAWFULNESS OF SUBMISSION OF PROPOSAL:** By submitting his/her Proposal, the Respondent represents and warrants that the Respondent –

**8.4.1. No Bid Rigging:** Has not engaged in any unlawful bid rigging, price fixing or group boycott with any other Respondent or third person.

**8.4.2. No Federal or State Violations:** Has not violated any state or federal law governing the subject of that which is sought by the Request.

**8.4.3. Direct Interest in Contract:** Is the only person that will have a direct interest in the Contract, if any is awarded.

**8.4.4. No Bribery:** Has not made any effort to coerce or bribe any City elected or appointed official or employee to award the Contract to the Respondent. Has not undertaken any effort to provide the City with the Specifications used in this solicitation document.

**8.5. TAXES; AUTHORIZATIONS:**

**8.5.1. City Tax Exemption:** By law, the City is exempt from paying federal excise tax, state and local retailers' occupation tax, state and local service occupation tax, use tax, service use tax, and sales tax. The City's tax-exempt number will be furnished upon the Successful Respondent’s request.

**8.5.2. Authorizations:** Within three (3) business days of executing a Contract, if any is to be executed, the Successful Respondent, at its expense, shall provide the City with all necessary permits, licenses, and certificates required to satisfy the obligations to which the Successful Respondent will be expected to assume by entering into a Contract with the City. The Successful Respondent shall comply with all

requirements of and shall keep in full force and effect all such permits, licenses, and certificates throughout its performance of the Contract.

**8.6. USE OF CITY'S NAME:** No Respondent, including the Successful Respondent, if any, shall use the City's name or logo in any form of advertising without the City's prior written permission.

**8.7. CONTRACT DOCUMENTS:** The Successful Respondent shall be required to enter into a Contract with the City.

**8.7.1. Successful Respondent Supplied Contract:** If a Respondent, if selected as the Successful Respondent, expects the City to enter into an agreement using the Respondent's template form of agreement, the Respondent must supply a copy of that agreement form along with his/her Proposal. Nothing herein shall require the City to accept the terms of such agreement form.

**8.7.2. City-Supplied Contract Form:** If a Respondent, if selected as the Successful Respondent, does not intend to ask the City to use his/her agreement form, the City shall provide the Successful Respondent with the terms of agreement. The Contract terms may be contained in a wholly separate document and/or those parts of the City's Request and Successful Respondent's Proposal to which the City and Successful Respondent agree.

**8.7.3. Final Contract Terms:** Regardless of whether the Successful Respondent's or the City's agreement form is to be used, where appropriate, the Successful Respondent and the City will negotiate in good faith final terms of agreement. Any final Contract entered into by and between the City and the Successful Respondent shall contain the following:

**8.7.3.1. Price Quote:** The Successful Respondent's price quoted as contained in his/her Proposal or as further negotiated by and between the Respondent and the City which, in all events, shall include the all costs of delivery, set up, testing, instruction, and warranties, if any.

**8.7.3.2. Delivery:** Delivery of equipment, supplies and/or materials shall be made to the Project site during normal working hours.

**8.7.3.3. Payment:** Terms of payment by the City to the Successful Respondent.

**8.7.3.4. Specifications:** The Specifications provided for in this Request as may be modified by agreement between the City and the Successful Respondent.

**8.7.3.5. Default and Cure:** Terms covering the Successful Respondent's or the City's default, if any, with rights to cure such default.

- 8.7.3.6. Representation of Authority:** If the Successful Respondent is a corporation, limited liability company or partnership, there must be included a representation that the person signing the Contract on behalf of the Successful Respondent is authorized to execute the Contract.
- 8.7.3.7. Costs of Negotiation:** The City and the Successful Respondent to bear their respective costs of negotiating and executing the final Contract between them.
- 8.7.3.8. Indemnification:** The Successful Respondent's indemnification, hold harmless, and duty to defend the City in the event of any bodily injury or property damage caused the Successful Respondent's intentional, willful, wanton, grossly negligent, or negligent wrongful act or omission in performing his/her duties as provided in the Contract.
- 8.7.3.9. Insurance Requirements:** The following minimum insurance coverages are required to be in place, with the City named as an additional insured, where appropriate.

***A. Limitation of Liability***

The CONTRACTOR affirmatively represents that (s)he is skilled and experienced in the use and interpretation of Drawings and Specifications such as those included in the CONTRACT DOCUMENTS. Further, (s)he also affirmatively represents that (s)he has carefully reviewed the Drawings and Specifications of this CONTRACT and that (s)he has based his/her BID solely on these Documents, not relying in any way on any explanation or interpretation, oral or written, from any other source.

Unless a CONTRACTOR shall give written notice to the ENGINEER of any ambiguities contained in the Drawings and Specifications prior to the submission of its Bid, the CONTRACTOR agrees that it shall be conclusively presumed that the CONTRACTOR has exercised his/her aforementioned skill and experience and found the Drawings and Specifications sufficient and free from ambiguities, errors, or omissions for the purpose of determining its Contract Bid Price for the performance of the Work in conformity with the Drawings and Specifications.

If the CONTRACTOR is required to do extra work not shown in the CONTRACT DOCUMENTS or which the CONTRACTOR could reasonably not have been expected to discover by exercising his/her aforementioned skill and experience, an equitable adjustment in the CONTRACT BID price will be made as provided in the "STANDARD SPECIFICATIONS".

## ***B. Insurance Specifications***

### **1. Insurance Required of the CONTRACTOR**

Prior to commencement of the work, each CONTRACTOR shall purchase and maintain during the term of the Project such insurance as will protect him/her, the OWNER(s) and the ENGINEER(s) from claims arising out of the work described in this Contract and performed by the CONTRACTOR, SUBCONTRACTOR(S) or SUB-SUBCONTRACTOR(S) consisting of:

- a. Worker's Compensation Insurance including Employer's liability to cover employee injuries or disease compensable under the Worker's Compensation Statutes of the states in which work is conducted under this CONTRACT; disability benefit laws, if any; or Federal compensation acts such as U.S. Longshoremen or Harbor Workers Maritime Employment, or Railroad Compensation Act(s), if applicable. Self-insurance plans approved by the regulatory authorities in the state in which work on this Project is performed are acceptable.
- b. A Comprehensive General Liability policy to cover bodily injury to persons other than employees and for damage to tangible property, including loss of use thereof, including the following exposures.
  - (1) All premises and operations
  - (2) Explosion, collapse and underground damage
  - (3) CONTRACTOR'S Protective coverage for independent CONTRACTORS or SUBCONTRACTORS employed by him/her
  - (4) Contractual Liability for the obligation assumed in the Indemnification or Hold Harmless agreement found in the General Conditions section of this Contract
  - (5) The usual Personal Liability endorsement with no exclusions pertaining to employment
  - (6) Products and Completed Operations coverage. This coverage shall extend through the Contract guarantee period.
- c. A Comprehensive Automobile Liability policy to cover bodily injury and property damage arising out of the Ownership, maintenance or use of any motor vehicle, including owned, non-owned and hired vehicles. In light of standard policy provisions concerning (1) loading and unloading and (2) definitions pertaining to motor vehicles licensed for road use vs. unlicensed or self-propelled construction equipment, it is strongly recommended that the Comprehensive General Liability and the Comprehensive Auto Liability be written by the same insurance carrier, though not necessarily in one policy.



- d. The CONTRACTOR will purchase for the OWNER an OWNER'S Protective Liability policy or name the OWNER as an additional insured on the CONTRACTOR'S policies to protect the OWNER, the ENGINEER, their consultants, agents, employees and such public corporations in whose jurisdiction the work is located for their contingent liability for work performed by the CONTRACTOR or the SUBCONTRACTOR(S) under this CONTRACT.
- e. The CONTRACTOR shall purchase a Builder's Risk-Installation Floater in a form acceptable to the OWNER covering property of the Project for the full cost of replacement as of the time of any loss which shall include, as named insured, (1) the CONTRACTORS, (2) all SUBCONTRACTORS, (3) all Sub-SUBCONTRACTORS, (4) the OWNER, the ENGINEER(S) or Architect(s), as their respective interest may prove to be at the time of loss, covering insurable property which is the subject of this CONTRACT, whether in place, stored at the job site, stored elsewhere, or in transit at the risk of the insured(s).

Coverage shall be affected on an "All Risk" form including, but not limited to, the perils of fire, wind, vandalism, collapse, theft and earthquake, with exclusions normal to the coverage. With approval of the ENGINEER, the CONTRACTOR may arrange for such deductibles as (s)he deems to be within his/her ability to self-assume, but (s)he will be held solely responsible for the amount of such deductible and for any co-insurance penalties. Any insured loss shall be adjusted with the OWNER and the CONTRACTOR and paid to the OWNER and CONTRACTOR as Trustee for the other insured.

f. Umbrella or Excess Liability

The OWNER or its representative may, for certain projects, require limits higher than those stated under "Limits of Liability" below. The CONTRACTOR is granted the option of arranging coverage under a single policy for the full limit required or by a combination of underlying policies with the balance provided by an Excess or Umbrella Liability policy equal to the total limit(s) requested. Umbrella or Excess policy wording shall be at least as broad as the primary or underlying policy(ies) and shall apply both to the CONTRACTOR'S general liability and to his/her automobile liability insurance.

2. Limits of Liability

The required limits of liability of insurance coverages required under "Insurance Required of the CONTRACTOR" above shall be not less than the following:

a. Worker's Compensation		
Coverage A – Compensation		Statutory
Coverage B – Employer's Liability		\$100,000.00
b. Comprehensive General Liability		
Bodily Injury – Each Occurrence		\$1,000,000.00
Bodily Injury – Aggregate (Completed Operations)		\$1,000,000.00
Property Damage – Each Occurrence		\$500,000.00
Property Damage – Aggregate or		\$500,000.00
Combined Single Limit		\$1,000,000.00
c. Comprehensive Automobile Liability		
Bodily Injury – Each Person		\$500,000.00
Bodily Injury – Each Occurrence		\$500,000.00
Property Damage – Aggregate or		\$500,000.00
Combined Single Limit		\$1,000,000.00
d. OWNER'S Protective		
Bodily Injury – Each Occurrence		\$1,000,000.00
Property Damage – Each Occurrence		\$500,000.00
Property Damage – Aggregate or		\$1,000,000.00
Combined Single Limit		\$1,500,000.00
e. Builder's Risk – Installation Floater		Cost to replace at time of loss.
f. Umbrella or Excess Liability		\$2,000,000.00
g. Railroad Protective Liability		Set by Railroad(s)

### 3. Insurance - Other Requirements

#### a. Notice of Cancellation or Intent Not to Renew

Policies will be endorsed to provide that at least thirty (30) days written notice shall be given to the OWNER and to the ENGINEER of cancellation or of intent not to renew.

#### b. Evidence of Coverage

Prior to commencement of the work, the CONTRACTOR shall furnish to the OWNER, Certificates of Insurance in force. The OWNER reserves the right to request complete copies of policies if deemed necessary to ascertain details of coverage not provided by the certificates. Such policy copies shall be "Originally Signed Copies," and

so designated. The acceptance and filing by the ENGINEER and/or the OWNER of a Certificate or Certificates of Insurance disclosing coverage which does not meet the requirements of these specifications shall not constitute a waiver of those requirements by the OWNER nor operate to release the CONTRACTOR from his/her obligation to provide the required insurance coverage.

***C. Qualification of Insurers***

All insurance carried by the CONTRACTOR to meet these requirements shall be provided by insurance companies legally authorized to provide the respective coverage in the State of Illinois, and which are registered with the Illinois Department of Insurance for providing said coverage.

***D. Subrogation Clause***

The following subrogation clause shall appear in all policies of insurance, “Subrogation Clause - it is hereby stipulated that this insurance shall not be invalidated should the insured waive in writing prior to a loss any or all right of recovery against any part for loss occurring to the property described herein.”

**8.7.3.10. EEO Representations:** Affirmation of the EEO representations which the Successful Respondent provided as part of his/her Proposal.

**8.7.3.11. Termination of Contract:** Means of terminating the Contract by the City or the Successful Bidder and the non-terminating party’s rights and remedies.

**8.7.3.12. Governing Law:** The laws of the State of Illinois shall apply to any interpretation, construction, breach and enforcement of the Contract. Any action to interpret, construe, for breach, and/or enforcement of the Contract shall be initialed and maintained in the Circuit Court for the Sixth Judicial Circuit, Champaign County, Illinois or, if applicable, the United States District Court for the Central District of Illinois.

**8.7.3.13. Additional Terms:** Such other terms, if any, as the City and the Successful Respondent shall agree.

**8.8. TERMINATION OF SOLICITATION PROCESS/NO RIGHTS CREATED:** The City reserves the right to terminate the solicitation and selection process at any time, to reject any or all Proposals, and to award a Contract in the best interest of the City. Nothing herein shall be deemed to create any right or interest in any arrangement between the City and any Respondent unless and until the City and the Successful Respondent have entered into and executed a Contract. Nothing herein shall be deemed as obligating the City to accept a Proposal based solely on lowest price.

## **8.9. PREVAILING WAGE ACT/ DAVIS-BACON ACT:**

**8.9.1. Prevailing Wage Act:** Any Contract entered into between the Successful Respondent and the City will be subject to the Illinois Prevailing Wage Act (820 ILCS 130/1 et seq.), as amended to date, unless superseded by the Davis-Bacon Act or otherwise stated. Pursuant to the Illinois Prevailing Wage Act, the City has determined prevailing rates for various classifications of workers and the latest determination of these rates is included as part of this Proposal. The Respondent shall pay its workers not less than the prevailing rates so determined and comply with the Act's requirements, including, but not limited to, the keeping of accurate records showing the names and occupation of all laborers, workers and mechanics employed on the work if a Contract is signed. The records shall show the actual hourly wages paid to each such person. Should the rates change during the Contract period, the Respondent shall pay its workers not less than the rates in effect. Current prevailing wage rates are available online at the Illinois Department of Labor website: <https://www2.illinois.gov/idol/Pages/default.aspx>.

**8.9.2. Davis-Bacon Act:** To the extent it is applicable, the Respondent shall comply with the federal Davis-Bacon Act rather than the Illinois Prevailing Wage Act referred to above. Current wage determinations are available online at the U.S. Department of Labor website: <https://www.dol.gov/>.

## **8.10. AFFIRMATIVE ACTION:**

**8.10.1. Compliance with City Ordinance:** If the Contract will be over \$25,000 and provides for construction work (which may include labor, material, supplies and/or equipment) or if the Contract will be over \$30,000 and provides for the performance of services or the delivery of goods but not construction work, the Successful Respondent shall comply with the Discrimination in Employment by Contractors and Respondents Ordinance (Urbana City Code Sec. 2-119 as amended). Pursuant to the Ordinance, the Respondent must submit to the City's Commission on Human Relations the statement provided for in Urbana City Code Section 2-119(b)(1)-(7) on the form provided by the City. Inquiries concerning this requirement may be directed to the City's Human Relations Officer at 400 S. Vine Street, Urbana, IL 61801 or by telephone at 217 384-2466 or by e-mail at [hro@urbanaininois.us](mailto:hro@urbanaininois.us). Further, the Successful Respondent shall comply with the City's Human Rights Ordinance (Urbana City Code Sec. 12-1 et seq.).

**8.10.2. Veterans Preference:** If this Proposal involves construction, the Successful Respondent shall comply with the Veterans Preference Act (330 ILCS 55/0.01 et seq.) and the Employment of Illinois Workers on Public Works Act (30 ILCS 570-0.01 et seq.) in the employment and appointment to fill positions in the construction, addition to, or alteration of any public works.

**EXHIBIT E**

**REQUIRED FORMS TO BE COMPLETED AND SUBMITTED WITH PROPOSAL**

1. BLR 12200: Local Public Agency Formal Contract Proposal
2. BLR 12201: Schedule of Prices
3. BLR 12230: Local Agency Proposal Bid Bond
4. Vendor Representations and Additional Duties
5. Equal Employment Opportunity (E.E.O.) Workforce Statistics
6. Current IDOT Prequalification Certificate of Eligibility

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Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

### NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of the City of Urbana Public Works Department  
Name of Office  
706 South Glover Avenue, Urbana, Illinois 61802 until 2:00 p.m. on July 13, 2021 .  
Address Time Date

Sealed proposals will be opened and read at 2:00 p.m. Central Time on July 13, 2021 at the office of the City of Urbana Public Works Department, 706 South Glover Avenue, Urbana, Illinois 61802.

### DESCRIPTION OF WORK

Location	Project Length
Mathews Avenue Roadway Lighting Improvements	2469 feet
Proposed Improvement	
Roadway lighting removal and replacement on Mathews Avenue from Oregon Street to Springfield Avenue.	

1. Proposal documents are available online at the City of Urbana website: <https://urbanaininois.us/node/9429>.
2.  Prequalification  
 If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal, and private work. The "Affidavit of Availability" shall be filed with the City of Urbana Public Works Department. An electronic copy of Form BC 57 is available at <https://idot.illinois.gov>.
3. The City of Urbana (Awarding Authority) reserves the right to waive technicalities and to reject any or all proposals as specified in the "Invitation to Bid".
4. The following documents shall be returned by the bidder to the Awarding Authority:
  - a. Local Public Agency Formal Contract Proposal (BLR 12200)
  - b. Schedule of Prices (BLR 12201)
  - c. Local Agency Proposal Bid Bond (BLR 12230)
  - d. Vendor Representations and Additional Duties
  - e. Equal Employment Opportunity (E.E.O.) Workforce Statistics
  - f. Current IDOT Prequalification Certificate of Eligibility
5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased, or omitted as hereinafter provided.
6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in-depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.
7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.
8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Authority and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.
9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

**PROPOSAL**

1. Proposal of \_\_\_\_\_  
Contractor's Name

\_\_\_\_\_  
Contractor's Address

2. The plans for the proposed work are those prepared by Clark Dietz and approved by the City of Urbana.
3. The specifications referred to herein are those prepared by the Illinois Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
4. The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
5. The undersigned agrees to complete the work by **5:00 p.m. on Friday, October 29, 2021** unless additional time is granted in accordance with the specifications.
6. The successful bidder at the time of execution of the contract will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.
7. Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.
8. The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.
9. The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bids specified in the Schedule for Multiple Bids below.
10. A proposal guaranty in the proper amount, as specified in the "Invitation to Bid", will be required. Bid Bonds will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to the City of Urbana, Illinois.

The amount of the check is \_\_\_\_\_ ( \_\_\_\_\_ ).

**Attach Cashier's Check or Certified Check Here**

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number       N/A      .



Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

### CONTRACTOR CERTIFICATIONS

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the City of Urbana enter into the contract with the bidder.

1. **Debt Delinquency.** The bidder or contractor or subcontractor, respectively, certifies that it is not delinquent in the payment of any tax administered by the Department of Revenue unless the individual or other entity is contesting, in accordance with the procedure established by the appropriate Revenue Act, its liability for the tax or the amount of the tax. Making a false statement voids the contract and allows the City of Urbana to recover all amounts paid to the individual or entity under the contract in a civil action.
2. **Bid-Rigging or Bid Rotating.** The bidder or contractor or subcontractor, respectively, certifies that it is not barred from contracting with the City of Urbana by reason of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

A violation of section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense, or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State of Local government. No corporation shall be barred from contracting with any unit of State or Local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent on behalf of the corporation.

3. **Bribery.** The bidder or contractor or subcontractor, respectively, certifies that, it has not been convicted of bribery or attempting to bribe an officer or employee of the State of Illinois or any unit of local government, nor has the firm made an admission of guilt of such conduct which is a matter or record, nor has an official, agent, or employee of the firm committed bribery or attempted bribery on behalf of the firm and pursuant to the direction or authorization of a responsible official of the firm.
4. **Interim Suspension or Suspension.** The bidder or contractor or subcontractor, respectively, certifies that it is not currently under a suspension as defined in Subpart I of Title 44 Subtitle A Chapter III Part 6 of the Illinois Administrative Code. Furthermore, if suspended prior to completion of this work, the contract or contracts executed for the completion of this work may be canceled.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

**SIGNATURES**

(If an individual)

Signature of Bidder	Date

Business Address

City	State	Zip Code

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

**SIGNATURES**

(If a partnership)

Firm Name

Signature

Date

--	--

Title

Business Address

City

State

Zip Code

--	--	--

Insert the Names and Addresses of all Partners

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

**SIGNATURES**

(If a corporation)

Corporate Name

Signature

Date

--	--

Title

Business Address

City

State

Zip Code

--	--	--

Insert Names of Officers

President

Secretary

Treasurer

Attest:

Secretary

## Schedule of Prices

Contractor's Name

Contractor's Address

City

State

Zip Code

Local Public Agency

County

Section Number

Route(s) (Street/Road Name)

### Schedule for Single Bid

(For complete information covering these items, see plans and specifications.)

Item No.	Item	Unit	Quantity	Unit Price	Total
28000510	INLET FILTERS	EACH	32		
44000600	SIDEWALK REMOVAL	SQ FT	1375		
67100100	MOBILIZATION	LSUM	1		
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	380		
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	4050		
81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	2		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	230		
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	8170		
81702145	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3	FOOT	7100		
81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	1160		
83000400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. DAVIT ARM	EACH	8		
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	138		
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	20		
84200804	REMOVAL OF POLE FOUNDATION	EACH	2		
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1		
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1		
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	1110		
X4020900	AGGREGATE SURFACE COURSE, TYPE B SPECIAL	SQ YD	35		
X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	1375		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1		
X8130110	JUNCTION BOX (SPECIAL)	EACH	38		
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	10		
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1		
X8300001	LIGHT POLE, SPECIAL	EACH	25		
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	10		
X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	5		
XX006344	SODDING (COMPLETE)	SQ YD	385		
XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	8		
XX008069	LUMINAIRE INSTALLATION, TYPE 2	EACH	25		
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		
<b>Bidder's Total Proposal</b>					

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
City of Urbana	Champaign	21-00633-00-LT	Mathews Avenue

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price nor total price is shown.

# Local Public Agency Proposal Bid Bond

Local Public Agency City of Urbana	County Champaign	Section Number 21-00633-00-LT
---------------------------------------	---------------------	----------------------------------

WE, \_\_\_\_\_ as PRINCIPAL, and \_\_\_\_\_ as SURETY, are held jointly, severally and firmly bound unto the above Local Public Agency (hereafter referred to as "LPA") in the penal sum of 5% of the total bid price, or for the amount specified in the proposal documents in effect on the date of invitation for bids, whichever is the lesser sum. We bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly pay to the LPA this sum under the conditions of this instrument.

WHEREAS THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that, the said PRINCIPAL is submitting a written proposal to the LPA acting through its awarding authority for the construction of the work designated as the above section.

THEREFORE if the proposal is accepted and a contract awarded to the PRINCIPAL by the LPA for the above designated section and the PRINCIPAL shall within fifteen (15) days after award enter into a formal contract, furnish surety guaranteeing the faithful performance of the work, and furnish evidence of the required insurance coverage, all as provided in the "Standard Specifications for Road and Bridge Construction" and applicable Supplemental Specifications, then this obligation shall become void; otherwise it shall remain in full force and effect.

IN THE EVENT the LPA determines the PRINCIPAL has failed to enter into a formal contract in compliance with any requirements set forth in the preceding paragraph, then the LPA acting through its awarding authority shall immediately be entitled to recover the full penal sum set out above, together with all court costs, all attorney fees, and any other expense of recovery.

IN TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers this \_\_\_\_\_ of \_\_\_\_\_ Day \_\_\_\_\_ Month and Year

### Principal

Company Name	
Signature	Date
By:	
Title	

Company Name	
Signature	Date
By:	
Title	

(If Principal is a joint venture of two or more contractors, the company names, and authorized signatures of each contractor must be affixed.)

### Surety

Name of Surety

Signature of Attorney-in-Fact	Date
By:	

STATE OF IL  
COUNTY OF

I \_\_\_\_\_, a Notary Public in and for said county do hereby certify that

(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instruments as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_ Month and Year .

(SEAL)

Notary Public Signature

Date commission expires \_\_\_\_\_

Local Public Agency

County

Section Number

City of Urbana

Champaign

21-00633-00-LT

ELECTRONIC BID BOND

**Electronic bid bond is allowed (box must be checked by LPA if electronic bid bond is allowed)**

The Principal may submit an electronic bid bond, in lieu of completing the above section of the Proposal Bid Bond Form. By providing an electronic bid bond ID code and signing below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the LPA under the conditions of the bid bond as shown above. (If PRINCIPAL is a joint venture of two or more contractors, an electronic bid bond ID code, company/Bidder name title and date must be affixed for each contractor in the venture.)

Electronic Bid Bond ID Code

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Company/Bidder Name

--

Signature

--

Date

--

Title

--



**CITY OF URBANA**  
**CERTIFICATION FORMS**

**The Notice of Award cannot be issued until the Contractor's equal opportunity compliance and certification forms have been approved by Urbana's Human Relations Commission. Contractors are encouraged to pre-qualify with the City prior to the bid opening to expedite issuance of the Notice of Award.**

Consultants can check to see if they are Equal Employment Opportunity (EEO) qualified with the City by contacting the City Human Relations Office at [HRO@urbanaininois.us](mailto:HRO@urbanaininois.us) or 217-384-8455.

The following Urbana Certification Forms should be completed and submitted to the City of Urbana as soon as possible by Consultants that are not EEO qualified:

- (1) Vendor Representations and Additional Duties Form
- (2) Equal Employment Opportunity (E.E.O.) Workforce Statistics Form

The forms can be mailed to:

City of Urbana  
Attn: Human Relations Office  
400 South Vine Street  
Urbana, IL 61802  
217-384-2466 – Phone  
[HRO@urbanaininois.us](mailto:HRO@urbanaininois.us)

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## VENDOR REPRESENTATIONS AND ADDITIONAL DUTIES

The Vendor agrees that following representations and additional duties are a material part of the contract. The undersigned, having been duly sworn under oath, certifies and agrees as follows:

1. None of the Vendor or its partners, officers, owners, employees, or agents have been barred from contracting with a unit of State or local government in the past five years as a result of a conviction for bid rigging, in violation of 720 ILCS 5/33E-3 or any similar offense of any state or the United States which contains the same elements as this offense. 720 ILCS 5/33E-11.
2. None of the Vendor or its partners, officers, owners, employees, or agents have ever been barred from contracting with a unit of State or local government as a result of a conviction for bid rotating, in violation of 720 ILCS 5/33E-4 or any similar offense of any state or the United States which contains the same elements as this offense. 720 ILCS 5/33E-11.
3. If the Vendor holds any elected or appointed office under the laws or Constitution of this State, the Vendor is in compliance with the Public Officer Prohibited Activities Act. 50 ILCS 105/3.
4. The Vendor is not a municipal officer with a prohibited financial interest in this contract, directly in the officer's own name or indirectly in the name of any other person, association, trust, or corporation, in accordance with 65 ILCS 5/3.1-55-10.
5. *Please initial one statement, in accordance with 65 ILCS 5/11-42.1-1:*
  - A. \_\_\_\_\_ The Vendor is not delinquent in the payment of any tax administered by the Department of Revenue unless the Vendor is contesting, in accordance with the procedures established by the appropriate revenue Act, its liability for the tax or the amount of tax.
  - B. \_\_\_\_\_ The Vendor has entered into an agreement with the Department of Revenue for the payment of all such taxes that are due and is in compliance with the agreement.
6. If the Vendor employs commercial motor vehicle operators, the Vendor is in compliance with the Federal Highway Administration rules for controlled substances and alcohol use and testing. 49 CFR Parts 40 and 382.
7. During the term of this contract, the Vendor shall comply with (a) Urbana City Code Section 2-119, which prohibits employment discrimination by contractors and vendors with the City; (B) the Equal Employment Opportunity provisions of Ill. Admin. Code tit. 44, § 750; and (C) Article 2 of the Illinois Human Rights Act, 775 ILCS 5/2-101 *et seq.*, including without limitation the requirement that the Vendor have a written sexual harassment policy in conformance with 775 ILCS 5/2-105.
8. If this contract involves the construction, reconstruction, alteration, repair, improvement, or maintenance of public works, the Vendor has filed with the City and made available to the general public a copy of the Vendor's written substance abuse prevention program, which meets or exceeds the requirements of 820 ILCS 265/15.



**VENDOR REPRESENTATIONS AND ADDITIONAL DUTIES**

9. If this contract involves the construction, reconstruction, alteration, repair, improvement, or maintenance of public works, the Vendor shall use United States produced steel products, in compliance with 30 ILCS 565/4.

10. If this contract involves the construction, addition to, or alteration of public works, the Vendor shall employ laborers in compliance with the Veterans Preference Act (330 ILCS 55/0.01 et seq.) and the Employment of Illinois Workers on Public Works Act (30 ILCS 570/0.01 et seq.).

11. The Vendor shall comply with all applicable provisions of the Prevailing Wage Act, which requires the payment of the prevailing rate of wage to all laborers, workers, and mechanics employed by or on behalf of a public body in the construction, demolition, maintenance, or repair of public works. 820 ILCS 130/0.01 et seq. The prevailing wage rates are established and revised by the Department of Labor and are available at [www.state.il.us/agency/idol/rates/rates.htm](http://www.state.il.us/agency/idol/rates/rates.htm).

12. The Vendor shall obtain from all subcontractors to be used in the performance of this contract a sworn statement agreeing to the representations and additional duties contained on this document. The Vendor shall maintain the sworn statements on file for the duration of this contract and shall promptly provide them to the City upon request. If a subcontractor is or becomes ineligible for a contract with the City, the Vendor promptly shall terminate its subcontract upon the City's request. The Vendor shall include adequate provisions in all subcontracts to allow it to terminate such subcontracts as required herein.

The representations contained on this document are true, complete, and correct in all respects. The representations contained herein are continuing. If any such representation is no longer true or correct, the Vendor promptly shall notify the City in writing.

Vendor: \_\_\_\_\_

By: \_\_\_\_\_

Printed name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

State of \_\_\_\_\_

County of \_\_\_\_\_

Signed and sworn (or affirmed) to before me on \_\_\_\_\_ (date)

by \_\_\_\_\_ (name of person making statement).

(seal)

\_\_\_\_\_  
Signature of notary public

<p align="center"> <b>CITY OF URBANA HUMAN  RELATIONS DIVISION  400 SOUTH VINE ST.  URBANA, ILLINOIS 61801  (217) 384-2455 (phone); 328-8288 (fax)  hro@urbanaininois.us</b> </p>	<b>Office Use Only (09/15)</b>	
	<b>Requested by:</b>	<b>Date:</b>
	<b>Approved by:</b>	<b>Date:</b>
	<b>Certification Date:</b>	
	<b>Certificate Expiration Date:</b>	

**EQUAL EMPLOYMENT OPPORTUNITY (E.E.O.) WORKFORCE STATISTICS FORM**

Please complete the sections below as instructed. Failure to properly complete this form may result in a delay or denial of eligibility to bid or do business with the City of Urbana.

**Section I. Identification**

**1. Company Name and Address:**

Name:

d/b/a:

Address:

City/State/Zip:

Telephone Number(s) include area code:

Check one of the following

Corporation	<input type="checkbox"/>	Partnership	<input type="checkbox"/>	Individual Proprietorship	<input type="checkbox"/>	Limited Liability Corp.	<input type="checkbox"/>
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FEI Number:	<input type="text"/>	Social Security Number:	<input type="text"/>
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**2. Name and Address of the Company's Principal Office (answer only if not the same as above)**

Name:

Address:

City/State/Zip

**3. Major activity of your company (product or service):**

**4. Project on which your company is bidding:**

**5. City of Urbana contact staff assigned to contract:**

## SECTION II. Policies and Practices

Description of EEO Policies and Practices		YES	NO
A.	Is it the Company's policy to recruit, hire, train, upgrade, promote and discipline persons without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual preference, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income ?		
B.	Has someone been assigned to develop procedures, which will assure that the EEO policy is implemented and enforced by managerial, administrative, and supervisory personnel? If so, please indicate the name and title of the official charged with this responsibility. Name: _____ Title: _____ Telephone: _____ Email: _____		
C.	Does the company have a written Equal Employment Opportunity plan or statement? Note: If no, a copy of an E.E.O statement is enclosed. <b>You must attach an EEO Statement in order to be considered eligible to do business with the City of Urbana. Questions? (217) 384-2455 or hro@city.urbana.il.us.</b>		
D.	Has the company developed a written policy statement prohibiting Sexual Harassment? <b>You must attach a copy of your company's Sexual Harassment Policy in order to be considered eligible to do business with the City of Urbana.</b>		
E.	Have all recruitment sources been notified that the company will consider all qualified applicants without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual orientation, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income?		
F.	If advertising is used, does it specify that all qualified applicants will be considered for employment without regard to race, color, creed, class, national origin, religion, sex, age, marital status, mental and/or physical disability, personal appearance, sexual orientation, family responsibilities, matriculation, political affiliation, prior arrest, conviction record, or source of income?		
G.	Has the contractor notified all of its sub-contractors of their obligations to comply with the Equal Opportunity requirements either in writing, by inclusion in subcontracts or purchase orders?		
H.	Is the company a state certified minority/women owned business? If yes, please attach a copy of state certification.		
I.	Does the company have collective bargaining agreements with labor organizations?		
J.	If you answered yes to Question "I", have the labor organizations been notified of the company's responsibility to comply with the Equal Employment Opportunity requirements in all contracts with the City of Urbana?		
K.	Does your company perform construction, rehabilitation, alteration, conversion, demolition or repair of buildings, highways or other improvements to real property? <b>(If yes, please complete Table B.)</b>		
L.	Are you currently seeking to renew an existing or expired Urbana EEO certification? <b>(If yes, you need to complete Table C.)</b>		

## SECTION III. Employment Information

**IMPORTANT:** Please complete the company workforce analysis on the bottom of this page. Use the number of employees as of the most recent payroll period. **You must complete this form in its entirety, as instructed and submit your organization's (1) EEO Statement and (2) Sexual Harassment Policy in order to be eligible to do business with the City of Urbana. For detailed descriptions of the Job Classifications see attached descriptions.** If minorities and females are currently under-represented in your workforce, please attach a copy of an explanation of your plan to recruit and hire qualified minorities and females.

**TABLE A – TOTAL CONTRACTOR/VENDOR WORKFORCE**

Job Categories	Overall Totals		White (Not of Hispanic Origin)		Black or African-American (Not of Hispanic Origin)		Hispanic or Latino		Asian or Pacific Islander		American Indian or Alaskan Native	
	M	F	M	F	M	F	M	F	M	F	M	F
Officials & Mgrs												
Professionals												
Technicians												
Sales Workers												
Office & Clerical												
Craft Workers (Skilled)												
Operatives (Semi-Skilled)												
Laborers (Unskilled)												
Service Workers												
<b>TOTAL</b>												
M = MALE, Column B is sum of Rows D, F, H, J and L.												
F = FEMALE, Column C is sum of Rows E, G, I, K and M.												
<b>Date of above Data:</b> _____												





## SECTION IV. Certification

By signing below, the company certifies that it has answered all of the foregoing questions truthfully to the best of its knowledge and belief and agrees that it/he/she will comply and abide by the City of Urbana's Code of Ordinances (Section 2-119).

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name and Title

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Date

## SECTION V. Verification

**Prior to submitting this form, please check the answers to the following questions to verify your completion of this form:**

1. **Did you fill in all of the appropriate boxes in the table in Section III, including the "TOTAL" row?**

YES \_\_\_\_\_

NO \_\_\_\_\_

2. **Have you enclosed your company's EEO statement?**

YES \_\_\_\_\_

NO \_\_\_\_\_

3. **Have you enclosed your company's Sexual Harassment policy?**

YES \_\_\_\_\_

NO \_\_\_\_\_

# DEFINITIONS OF TERMS LISTED ON THE WORKFORCE STATISTICS FORM

(See previous Page)

## DESCRIPTION OF RACE/ETHNIC CATEGORIES

Race /ethnic designations as used by the Department do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group. The race/ethnic categories for this report are:

**White (Not of Hispanic origin).** All persons having origins in any of the original peoples of Europe, North Africa or the Middle East.

**Black of African-American (Not of Hispanic origin).** All persons having origins in any of the Black racial groups of Africa.

**Hispanic or Latino.** All persons of Mexican, Puerto Rican, Cuban, Central of South American, or other Spanish culture or origin, regardless of race.

**Asian or Pacific Islander.** All persons having origins any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands and Samoa.

**American Indian or Alaskan Native.** All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

## DESCRIPTION OF JOB CATEGORIES

Each employee should be counted in only one job category. Select the category containing the jobs most similar to that performed by the employee. The jobs listed in each category are intended to provide an example, not a complete list, of all job titles falling into that category.

**Officials and managers.** Occupations requiring administrative and managerial personnel who set broad policies, exercise overall responsibility for execution of these policies, and direct individual departments or special phases of firm's operations. Includes: officials, executives, middle management, plant managers, department managers, and superintendents, salaried supervisors who are members of management, purchasing agents and buyers, railroad conductors and yard masters, ship captains, mates and other officers farm operators and managers, and kindred workers.

**Professionals.** Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, layers, librarians, mathematicians, natural scientist, registered professional nurses, personnel and labor relations specialist, physical scientist, physicians, social scientist, teachers, surveyors and kindred workers.

**Technicians.** Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through 2 years of post high school education, such as is offered in many technical institutes and union colleges, or through equivalent on-the-job training. Include: computer programmers, drafters, engineering aides, junior engineers, mathematical aides, licensed, practical or vocational nurses, photographers, radio operators, scientific assistants, technical illustrators, technicians (medical, dental, electronic, physical science), and kindred workers.

**Sales.** Occupations engaging wholly or primarily in direct selling. Includes: advertising agents and sales workers, insurance agents and brokers, real estate agents, and brokers, stock and bond sales workers, demonstrators, sales workers and sales clerks, grocery clerks, and cashiers/checkers, and kindred workers.

**Office and clerical.** Includes all clerical-type work regardless of level of difficulty, where the activities are predominantly non manual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, collectors (bills and accounts), messengers and office helpers, office machine operators (including computer), shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, legal assistants, and kindred workers.

**Craft workers (skilled).** Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades, hourly paid supervisors and lead operators who are not members of occupations, compositors and typesetters, electricians, engravers, painters (construction and maintenance), motion picture projectionists, pattern and model makers, stationary hand painters, coaters, bakers, decorating occupations, and kindred workers.

**Operatives (semiskilled).** Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training. Includes: apprentices (auto service and stitchers, dryers, furnace workers, heaters, laundry and dry cleaning operatives, milliners, mine operatives and laborers, motor operators, oilers and greasers (except auto), painters (manufactured articles), photographic process workers, truck and tractor drivers, knitting, looping, taping and weaving machine operators, welders and flame cutters, electrical and electronic equipment assemblers, butchers and meatcutters, inspectors, testers and graders, handpackers and packagers, and kindred workers.

**Laborers (unskilled).** Workers in manual occupations which generally require no special training who perform elementary duties that may be learned in a few days and require the application of little or no independent judgment. Includes: garage laborers, car washers and greasers, groundskeepers and gardeners, farmworkers, stevedores, wood choppers, laborers performing lifting, digging, mixing, loading and pulling operation and kindred workers.

**Service workers.** Workers in both protective and nonprotective service occupations. Includes: Attendants (hospital and other institutions, professional and personal service, including nurses aides, and orderlies), barbers, charworkers and cleaners, cooks, counter and fountain workers, elevator operators, firefighters and fire protection, guards, doorkeepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, amusement and recreation facilities attendants, guides, ushers, public transportation attendants, and kindred workers.