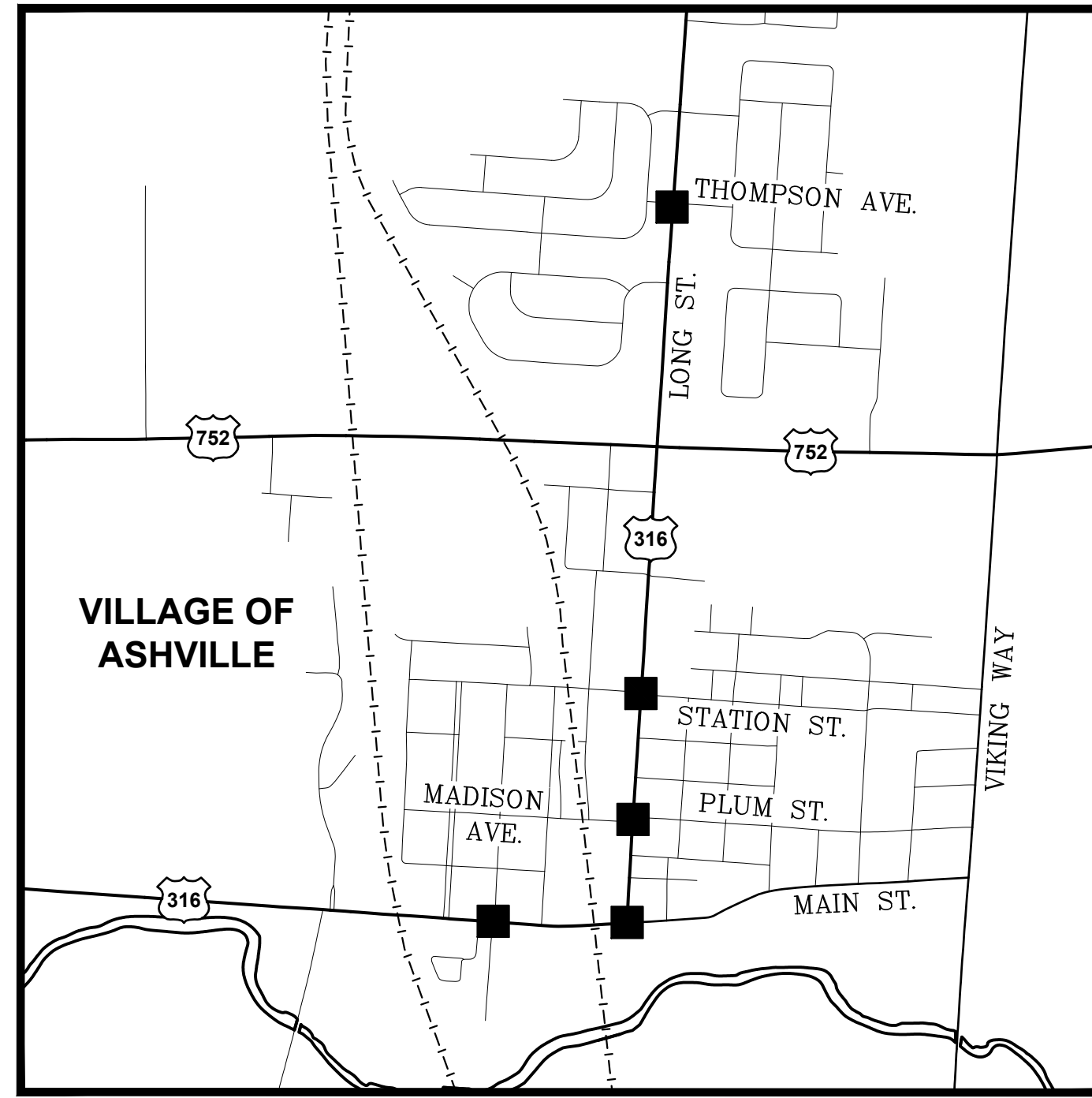


STATE OF OHIO DEPARTMENT OF TRANSPORTATION PIC-ASHVILLE-PED IMPROVEMENT VILLAGE OF ASHVILLE PICKAWAY COUNTY



LOCATION MAP

SCALE: 1" = 1200'

LATITUDE: 39°42'49.17" LONGITUDE: -82°57'12.96"

PORTION TO BE IMPROVED	
COUNTY ROAD	
INTERSTATE ROUTE	
STATE ROUTE	

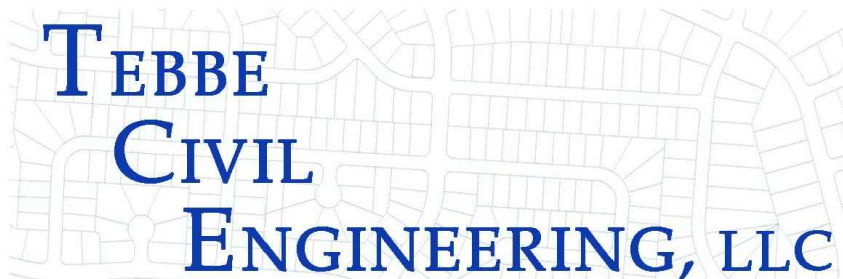
DESIGN DESIGNATION

ADT (2016)	4339
DESIGN YEAR ADT (2032)	4800
DESIGN HOURLY VOLUME (2032)	620
DIRECTIONAL DISTRIBUTION	56%
TRUCKS (24 HOURS B&C)	2%
DESIGN SPEED	35 MPH
LEGAL SPEED	25 MPH
FUNCTIONAL CLASSIFICATION	.05 - MAJOR COLLECTOR (RURAL)

DESIGN EXCEPTIONS

NONE REQUIRED

PLANS PREPARED BY:



4700 LAKEHURST DRIVE ~ SUITE 135
DUBLIN, OHIO 43016

ENGINEER'S SEAL:

SIGNED: _____
DATE: _____

INDEX OF SHEETS

TITLE SHEET	1
SCHEMATIC PLAN	2
GENERAL NOTES AND GENERAL SUMMARY	3-4
LIGHTING AND RRFB DETAILS	5-6
INTERSECTION SITE PLAN	7-9

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLING STREET LIGHTS AND/OR RECTANGULAR RAPID FLASHING BEACONS (RRFB) AT FIVE INTERSECTIONS ALONG SR 316 AND LONG STREET IN THE VILLAGE OF ASHVILLE, PICKAWAY COUNTY.

EARTH DISTURBING ACTIVITY

PROJECT EARTH DISTURBED AREA	0.01 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.01 AC.
TOTAL EARTH DISTURBING ACTIVITY	0.01 AC.

* THIS PROJECT CONTAINS LESS THAN 1 ACRE OF EARTH DISTURBING ACTIVITY AND IS CONSIDERED A MAINTENANCE PROJECT. NOTICE OF INTENT (NOI) AND BMPS ARE NOT REQUIRED.

UNDERGROUND UTILITIES
CALL TWO WORKING DAYS
BEFORE YOU DIG

800-362-2764 or 8-1-1
www.oups.org
NON-MEMBERS
MUST BE CALLED DIRECTLY

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS PROJECT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: _____

DATE: _____ DISTRICT DEPUTY DIRECTOR

APPROVED: _____

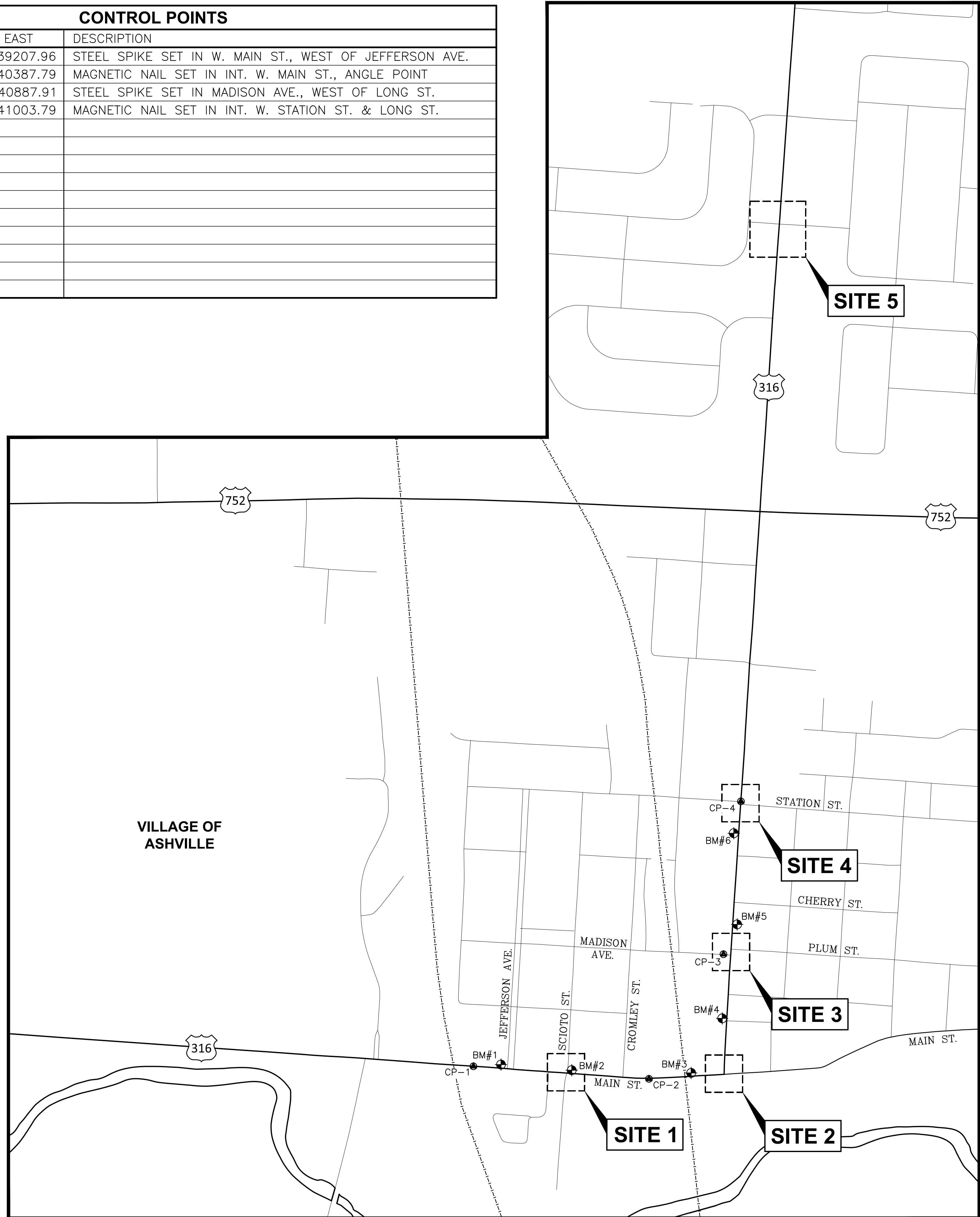
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

	STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS
	ODOT	COLUMBUS	ODOT
	TC-74.10	7/21/23	MIS-101
	TC-87.10	7/23/23	MIS-800
	MT-97.10	4/19/19	

FEDERAL PROJ NO. _____
 PID NO. **117460**
 CONSTRUCTION PROJECT NO. _____
 RAILROAD INVOLVEMENT **NONE**
PIC-ASHVILLE-PED IMPROVEMENT
1
9

LEGEND	
LINETYPES	
EXISTING FENCE	— x — x — x — x —
EXISTING GAS	— G — G — G —
EXISTING RIGHT-OF-WAY	— R/W —
EXISTING SANITARY SEWER	— SA — SA —
EXISTING SANITARY SEWER, FORCE MAIN	— FM — FM —
EXISTING WATER	— W — W —
EXISTING STORM SEWER	— ST — ST —
EXISTING UNDERGROUND TELEPHONE	— UGT — UGT —
EXISTING UNDERGROUND ELECTRIC	— UGE — UGE —
EXISTING OVERHEAD ELECTRIC WIRE	— OHE — OHE —
POWER POLE W/GUY WIRE & LIGHT POLE	— OHE — OHE —
SYMBOLS	
EXISTING CATCH BASIN	□
EXISTING CURB INLET	▢
EXISTING SANITARY MANHOLE	⊙
EXISTING FIRE HYDRANT	⊕
EXISTING SIGN	—
EXISTING TREE W/SIZE	⊙
EXISTING SHRUB	⊙
EXISTING SHRUB ROW	⊙
EXISTING LIGHT POLE	⊕
EXISTING POWER POLE	⊕
EXISTING POWER POLE W/LIGHT	⊕
EXISTING GAS VALVE	CV⊙
SYMBOLS	
EXISTING WATER VALVE	WV⊙
EXISTING STORM MANHOLE	○
EXISTING GAS METER	GM
PROPOSED CATCH BASIN	■
PROPOSED MANHOLE	●
ABBREVIATIONS	
EXISTING	EX.
TOP OF CASTING	TC
PROPOSED	PROP.
RIGHT-OF-WAY	R/W
EDGE OF PAVEMENT	E/P

CONTROL POINTS			
POINT	NORTH	EAST	DESCRIPTION
CP-1	624330.12	1839207.96	STEEL SPIKE SET IN W. MAIN ST., WEST OF JEFFERSON AVE.
CP-2	624245.96	1840387.79	MAGNETIC NAIL SET IN INT. W. MAIN ST., ANGLE POINT
CP-3	625081.87	1840887.91	STEEL SPIKE SET IN MADISON AVE., WEST OF LONG ST.
CP-4	626106.87	1841003.79	MAGNETIC NAIL SET IN INT. W. STATION ST. & LONG ST.



PROJECT DATUM

HORIZONTAL DATUM:
HORIZONTAL DATUM FOR THIS PROJECT IS OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.

VERTICAL DATUM:
VERTICAL DATUM FOR THIS PROJECT IS NAVD88.

BENCHMARKS

BM#1:
SOUTHEAST CORNER OF CONCRETE STEP OF RESIDENCE #200, NORTH SIDE OF W. MAIN STREET, WEST OF JEFFERSON AVENUE.
ELEVATION: 702.69
APPROXIMATE LOCATION: N624342, E1839397

BM#2:
NORTH BOLT OF FIRE HYDRANT, NORTH SIDE W. MAIN STREET, EAST SIDE SCIOTO STREET.
ELEVATION: 708.18
APPROXIMATE LOCATION: N624302, E1839872

BM#3:
NORTH BOLT OF FIRE HYDRANT, NORTH SIDE OF W. MAIN STREET, EAST SIDE CENTER ALLEY.
ELEVATION: 709.08
APPROXIMATE LOCATION: N624284, E1840672

BM#4:
TOP OF EAST END LIBRARY SIGN, WEST SIDE LONG STREET, OPPOSITE WRIGHT STREET.
ELEVATION: 712.91
APPROXIMATE LOCATION: N624652, E1840880

BM#5:
SOUTH END OF TOP OF CONCRETE WALL, EAST SIDE LONG STREET, NORTH SIDE ALLEY, FIRST ALLEY NORTH OF PLUM STREET.
ELEVATION: 710.94
APPROXIMATE LOCATION: N625282, E1840981

BM#6:
TOP OF IRON PIN FOUND, WEST SIDE LONG STREET, SOUTH SIDE CONCRETE DRIVE.
ELEVATION: 711.57
APPROXIMATE LOCATION: N625892, E1840958

SCALE: 1" = 400'

400 200 0 400

HORIZONTAL SCALE IN FEET

CALCULATED

CHECKED

SCHEMATIC PLAN

PIC-ASHVILLE-PEDESTRIAN IMPROVEMENT

2/9

GENERAL:

THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 108.02) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTIFICATION OF CONSTRUCTION INITIATION:

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT d06.pio@dot.ohio.gov, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT d06.mot@dot.ohio.gov AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

CONTRACTORS EQUIPMENT – OPERATION AND STORAGE:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTOR'S STORAGE AREA.

CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

WORK LIMITS:

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS. WORK LIMITS SHALL BE WITHIN THE EXISTING RIGHT OF WAY.

UTILITIES:

THE ODOT CONTRACTOR IS REQUIRED TO CONTACT OUPS A MINIMUM OF 48 HOURS EXCLUDING WEEKENDS AND HOLIDAYS TO PERMIT ALL UNDERGROUND UTILITIES AN OPPORTUNITY TO MARK THEIR LINES. IT IS ALSO THE ODOT CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL NON-MEMBERS OF OUPS DIRECTLY A MINIMUM OF 48 HOURS' NOTICE EXCLUDING WEEKENDS AND HOLIDAYS TO PROVIDE THEM WITH THE SAME OPPORTUNITY.

NO UTILITY RELOCATION WILL BE REIMBURSED NOR WILL DELAY CLAIMS BE PERMISSIBLE BASED ON LACK OF COORDINATION BETWEEN THE ODOT CONTRACTOR AND THE IMPACTED UTILITY.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

VILLAGE OF ASHVILLE SERVICE DEPARTMENT
160 CHERRY STREET
ASHVILLE, OHIO 43103
740-983-4053

WATERLINE SANITARY SEWER & STORM SEWER ONLY
200 EAST STATION STREET
ASHVILLE, OHIO 43103

740-983-6367
COLUMBIA GAS OF OHIO
MICHAEL PAULES
3550 JOHNNY APPLESEED COURT
COLUMBUS, OHIO 43231
740-466-5131

SPRINT
STEVEN HUGHES
11370 ENTERPRISE PARK DRIVE
SHARONVILLE, OHIO 45241
513-459-5796

SOUTH CENTRAL POWER
MICHAEL CHALFAN
PO BOX 250
LANCASTER, OHIO 43130

CHARTER COMMUNICATIONS/SPECTRUM
SAM LUTZ
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
614-481-5047

VERIZON BUSINESS
AL GUEST
120 RAVINE STREET
AKRON, OHIO 44303
330-253-8267

CONSTRUCTION NOISE:

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7PM AND 7AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS:

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL: CP-1

LOCAL PROJECT NORTH: 624,330.12 USFT
LOCAL PROJECT EAST: 1,839,207.96 USFT

POSITIONING METHOD:

GPS RTK AVERAGE, MULTIPLE OBSERVATIONS ON MULTIPLE DAYS OF ODOT VIRTUAL REFERENCE SYSTEM

MONUMENT TYPE:

8" STAINLESS STEEL SPIKE SET IN ASPHALT AT THE CENTERLINE INTERSECTION OF W. MAIN STREET AND LONG STREET.

VERTICAL POSITIONING:

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 12

HORIZONTAL POSITIONING:

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: OHIO SPC – SOUTH ZONE (3402)

COORDINATE SYSTEM: LOCAL
COMBINED SCALE FACTOR: 1.000000 (LOCAL GROUND)
ORIGIN OF COORDINATE SYSTEM: CP-1
LOCAL PROJECT NORTH: 624,330.12 USFT
LOCAL PROJECT EAST: 1,839,207.96 USFT

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS:

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING:

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE CENTERLINE OF PAVEMENT UNLESS OTHERWISE NOTED.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

REMOVAL ITEMS:

UNLESS OTHERWISE INSTRUCTED, GUARDRAIL, POSTS, ASPHALT, CONCRETE, AND MISCELLANEOUS HARDWARE DESIGNATED FOR REMOVAL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE REMOVED ITEM.

ITEM 617 – WATER:

THIS ITEM IS A CONTINGENCY QUANTITY AND SHALL BE USED WHERE AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 617 – WATER 0 MGAL

CALCULATED

CHECKED

GENERAL NOTES

PIC-ASHVILLE-PED
IMPROVEMENT

3
9

LUMINAIRE, COBRA HEAD, LED NOTES

APPLICATION

THE LED COBRA HEAD LUMINAIRE MAY BE USED FOR:

- NEW INSTALLATION OF COBRA HEAD LUMINAIRES ON NEWLY PLACED POLES WHOSE SPACING HAS BEEN DESIGNED SPECIFICALLY FOR THE LUMINAIRE. STREET LIGHT DESIGNS USING PHOTOMETRIC SOFTWARE ARE REQUIRED FOR EACH LUMINAIRE. THE DESIGNER SHALL COMPLY WITH IESNA RP-08 (latest version).
- REPLACING EXISTING HID LUMINAIRES ON EXISTING POLES WHERE SPACING REMAINS UNCHANGED.

LED GENERAL REQUIREMENTS

A. CORRELATED COLOR TEMPERATURE (CCT): 3000K.

B. COLOR RENDERING INDEX (CRI) : MINIMUM 70

C. AMBIENT OPERATING ENVIRONMENT: -40°C TO +40°C (-40°F TO 104°F)

D. VOLTAGE : 480V OR 120V AS SPECIFIED BY THE CITY OF COLUMBUS.

E. COOLING SYSTEM: PASSIVE HEAT SINK WITH NO FANS, PUMPS, OR LIQUIDS, AND SHALL BE RESISTANT TO DEBRIS BUILD-UP THAT DOES NOT DEGRADE HEAT DISSIPATION PERFORMANCE.

HOUSING / DOOR ASSEMBLY

THE HOUSING SHALL BE CONSTRUCTED OF DIE-CAST ALUMINUM AND BE RUST RESISTANT. PAINT FINISH SHALL BE POWDER-COATED GRAY, BLACK OR BRONZE OR AS DIRECTED BY THE CITY OF COLUMBUS DIVISION OF POWER. THE PAINT FINISH SHALL EXCEED A RATING OF SIX PER ASTM D 1654 AFTER 1000 HOURS OF TESTING PER B117. PAINTED OR FINISHED LUMINAIRE COMPONENTS EXPOSED TO THE ENVIRONMENT SHALL EXHIBIT NO GREATER THAN 30% REDUCTION OF GLOSS PER ASTM D523, AFTER 500 HOURS OF UV TESTING AT ASTM G154 CYCLE 6. LUMINAIRE HOUSING SHALL ALLOW TOOL-LESS ENTRY. ALL SCREWS SHALL BE STAINLESS STEEL. NO PARTS SHALL BE CONSTRUCTED OF POLYCARBONATES.

LUMINAIRE HOUSING SHALL BE PROVIDED WITH AN INTERNAL LEVEL BUBBLE TO AID IN INSTALLATION. LUMINAIRE DOOR SHALL BE EQUIPPED WITH A LATCHING ACCESS DOOR ASSEMBLY. THE DOOR SHALL BE SECURELY HINGED, AND INCAPABLE OF INVOLUNTARY SEPARATION FROM HOUSING. LUMINAIRE SHALL BE INSTALLED BY MEANS OF A SLIP-FITTER CONNECTION TO AN 2.0" IPS BRACKET. THE SLIP-FITTER SHALL INCLUDE MEANS FOR SECURELY ATTACHING THE LUMINAIRE AND SHALL ALSO PROVIDE FOR TILT ADJUSTMENTS 5° ABOVE AND BELOW HORIZONTAL. THE SLIP-FITTER SHALL BE TOTALLY ENCLOSED IN LUMINAIRE HOUSING.

LED POWER SUPPLY / DRIVER

A) POWER FACTOR, MINIMUM 0.90

B) DRIVER OUTPUT CURRENT, mA VARIABLE

C) DIMMING SIGNAL, CONTROL RANGE, VDC 0 TO 10

D) LED DRIVER SHALL BE MOUNTED INSIDE THE HOUSING, REPLACEABLE, AND SHALL BE PRE-WIRED TO 480V OR 120V READY FOR INSTALLATION. DRIVER AND LED ARRAYS SHALL BE DESIGNED FOR MULTI-CURRENT INPUT OPERATIONS WITH 0-10V DRIVER ADJUSTABLE OUTPUT. THE LED DRIVER SHALL COMPLY WITH FCC RULES AND REGULATIONS, TITLE 47 CFR PART 15 NON-CONSUMER (CLASS A). LED DRIVER SHALL TOLERATE SUSTAINED OPEN CIRCUIT AND SHORT CIRCUIT OUTPUT CONDITIONS WITHOUT DAMAGE. LED DRIVER SHALL HAVE AN INDEPENDENTLY VERIFIED AND DOCUMENTED FAILURE RATE OF < 0.01% PER 1000 HOURS. WIRING INSIDE THE HOUSING SHALL COMPLY WITH 600V/105°C RATING OR HIGHER. THE LED DRIVER SHALL HAVE A "CLASS A" SOUND RATING. POWER SUPPLY/DRIVER SHALL BE UL RECOGNIZED FOR DRY AND DAMP LOCATIONS. ALL OTHER ELECTRICAL COMPONENTS SHALL BE UL LISTED OR RECOGNIZED FOR WET LOCATIONS. OUTPUT OPERATING FREQUENCY MUST BE > 120HZ AND INPUT OPERATING FREQUENCY OF 60 HZ. THE LED DRIVER SHALL BE RoHS COMPLIANT.

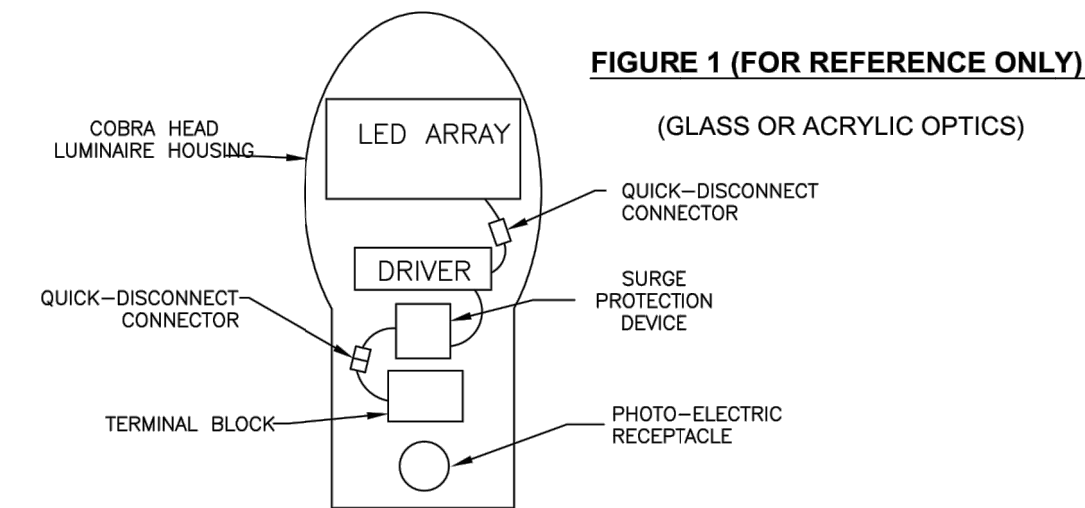
LED SURGE PROTECTION DEVICE

THE SURGE PROTECTION DEVICE SHALL COMPLY WITH ANSI C136.37, AND ANSI/IEEE C62.41.2. EACH SURGE PROTECTION DEVICE SHALL BE INTERNALLY MOUNTED INSIDE HOUSING AND SPECIFIED FOR 480V OR 120V OPERATION WITH A MINIMUM 10 KV/5KA SURGE PROTECTION. THE SURGE PROTECTION DEVICE SHALL BE A UL 1449 4TH EDITION TYPE 4 RECOGNIZED COMPONENT FOR USE IN TYPE 2 LOCATIONS

LUMINAIRE, COBRA HEAD, LED NOTES & DETAIL

LED MODULE / ARRAY REQUIREMENTS

LED MODULE(S)/ARRAY(S) SHALL DELIVER A MINIMUM OF 70% OF INITIAL LUMENS WHEN INSTALLED FOR 100,000 HOURS AND MEET L70 STANDARDS. LIGHTING DISTRIBUTION SHALL BE IN ACCORDANCE WITH "IESNA LIGHTING DISTRIBUTIONS". LAMP LUMEN DEPRECIATION FACTOR SHALL BE SUPPORTED BY TM-21 DATA @ 25 °C FOR 50,000 HOURS. LUMINAIRE DIRT DEPRECIATION(LDD) SHALL BE 0.85 FOR UV STABILIZED ACRYLIC OPTICS AND 0.90 FOR GLASS OPTICS. IT IS THE RESPONSIBILITY OF EACH MANUFACTURER TO PROVIDE A CALCULATION OF LAMP LUMEN DEPRECIATION(LLD). LIGHT LOSS FACTOR USED IN PHOTOMETRIC LAYOUT CALCULATIONS SHALL BE THE PRODUCT OF LDD AND THE MANUFACTURER'S PROJECTED LAMP LUMEN DEPRECIATION AT 100,000 HOURS AT 25°C AMBIENT TEMPERATURE. LUMEN MAINTENANCE SHALL BE A MINIMUM OF 70% OVER 100,000 HOURS OF LIFE WHEN OPERATING AT TEMPERATURES OF 40°C (104°F) OR LESS. OPTICAL SYSTEM COMPONENTS SHALL BE RATED AT IP66 TO PROTECT AGAINST WATER, DIRT, AND INSECT INFILTRATION, AND BE RoHS COMPLIANT. LUMINAIRE CIRCUITRY SHALL INCLUDE QUICK CONNECT/DISCONNECT FOR EASY SEPARATION. SEE FIGURE 1.



THE MINIMUM OPTICAL PERFORMANCE IS DEFINED BY THE APPLICATION INSTALLATION IN CONJUNCTION WITH THE "CITY OF COLUMBUS, DIVISION OF POWER GUIDELINES FOR STREET LIGHTING CIRCUIT LAYOUT".

7-PIN PHOTO-ELECTRIC RECEPTACLE

THE LUMINAIRE SHALL BE FURNISHED WITH A 7-PIN PHOTO-ELECTRIC RECEPTACLE INSTALLED IN THE TOP OF THE LUMINAIRE HOUSING. THE RECEPTACLE SHALL BE TWIST LOCK TYPE, AND HAVE THE CAPABILITY TO BE DIRECTIONALLY ADJUSTED. THE 7-PIN PHOTO-ELECTRIC RECEPTACLE SHALL BE SUITABLE FOR OPERATION WITH LED LUMINAIRES, AND CONFORM TO ANSI DESIGN STANDARD C136.10. THE PHOTO-ELECTRIC SOCKET SHALL ACCOMMODATE DIMMING AND/OR AUTOMATION INTEGRATION.

7-PIN LONG LIFE PHOTO CONTROL (AS REQUIRED BY THE ENGINEER)

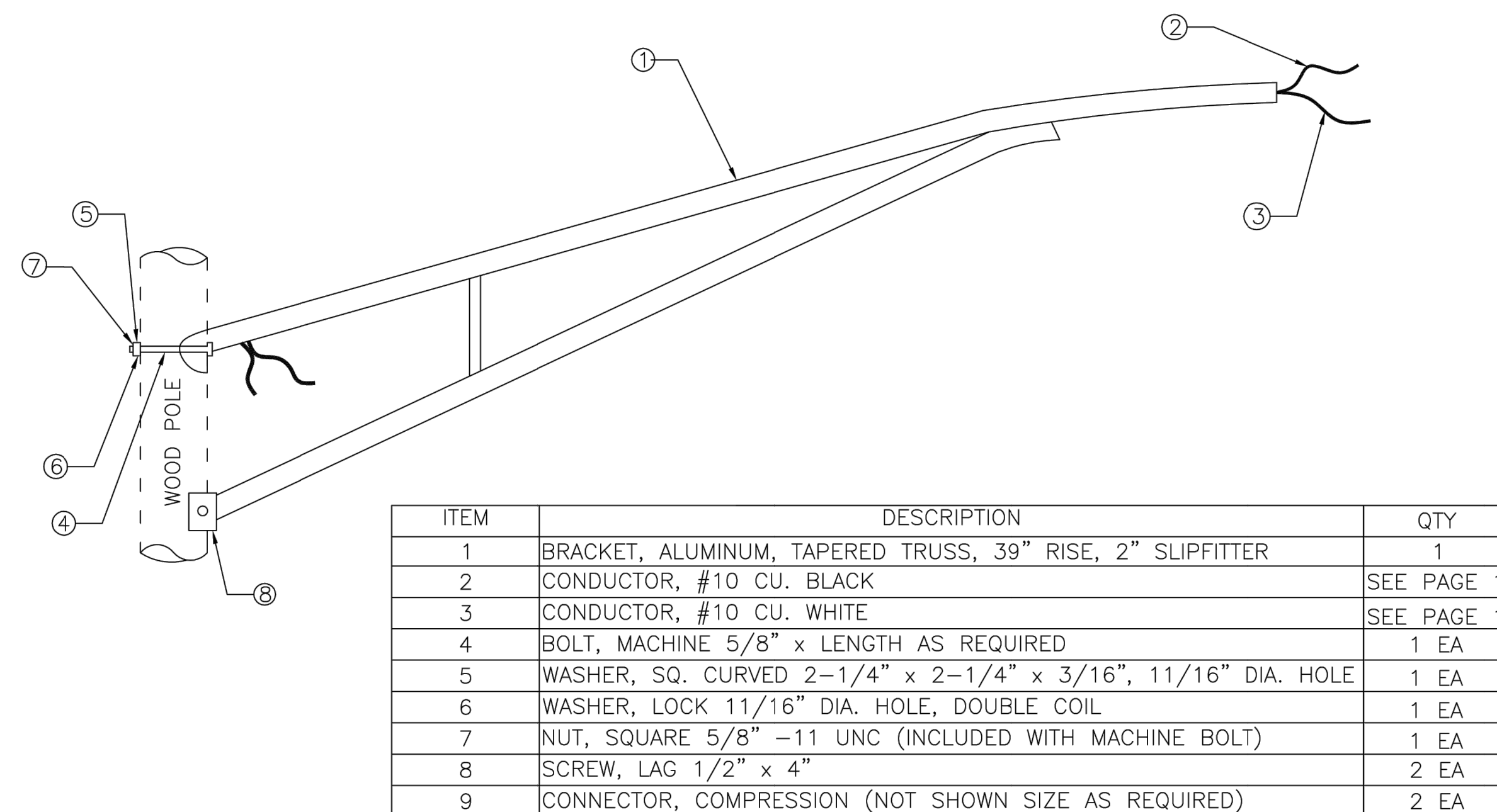
THE LUMINAIRE SHALL BE SUPPLIED WITH A "LONG LIFE" PHOTO CONTROL THAT SHALL BE SOLID STATE, & SUITABLE FOR USE WITH 7-PIN PHOTO CONTROL RECEPTACLES AND LED LUMINAIRES. THE PHOTO CONTROL SHALL HAVE A MINIMUM DESIGN LIFE OF 20 YEARS.

SHORTING CAP FOR 7-PIN LED PHOTO-ELECTRIC RECEPTACLE (480 V LUMINAIRE ONLY)
THE LUMINAIRE SHALL BE SUPPLIED WITH A SHORTING CAP SUITABLE FOR OPERATION WITH A 7-PIN LED PHOTO ELECTRIC RECEPTACLE. THE SHORTING CAP SHALL CONTAIN A GASKET AROUND THE OUTER PERIMETER OF THE CAP FOR PROPER SEALING AGAINST DEBRIS. THE SHORTING CAP SHALL MEET OR EXCEED ANSI DESIGN STANDARD ANSI C136.10.

TESTING / CERTIFICATION / STANDARDS / RECOMMENDED PRACTICES

THE LUMINAIRE SHALL COMPLY WITH THE FOLLOWING STANDARDS:

- A) ANSI C136:31 2010 (or latest) FOR 100,000 CYCLES AT 3G ACCELERATION FOR NORMAL ROAD AND BRIDGE APPLICATIONS.
- B) UL/CUL LISTED, SUITABLE FOR WET LOCATIONS PER UL 1598 OR CSA C22.2 NUMBER 250.
- C) THE LED OPTICAL ASSEMBLY AND DRIVER SHALL BE IP66 RATED PER IEC60529.
- D) LUMINAIRE COMPONENTS AND APPLIED FINISHES SHALL COMPLY WITH THE 1000 HOUR SALT/FOG TEST PER ASTM B117 STANDARD.
- E) LM-79 OPTICAL PERFORMANCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH IESNA STANDARD PRACTICES FOR SOLID STATE LIGHTING
- F) LUMINAIRE SHALL BE CERTIFIED WITH A BUG RATING (BACKLIGHT, UPLIGHT, GLARE)
- G) IESNA LM-80-15 (or latest) P) ANSI C78.377-2008 (or latest)
- H) ANSI C136.41-2013 (or latest) Q) TM-21-11 (or latest)
- I) ANSI C136.37 2011 (or latest) R) ASTM D1654-08 (or latest)
- J) ANSI C136.22 -2004 (or latest) S) IES LM-79 (latest version)
- K) IEC 60529 (or latest) T) UL 1449 (Surge Protection Devices)
- L) IEEE C62.41.2-2002 (or latest)
- M) IESNA TM-15-11 (or latest)
- N) RoHS
- O) ANSI C136.10-2010 (or latest)

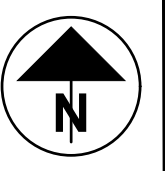


ALUMINUM BRACKET DETAIL

-NOT TO SCALE-

LIGHTING NOTE:

BRACKET AND COBRA HEAD LED NOTES AND DETAILS ARE FOR REFERENCE ONLY. INSTALLATION AND EXACT SPECIFICATIONS TO BE DETERMINED BY SOUTH CENTRAL POWER. CONTRACTOR TO COORDINATE INSTALLATION TIMELINE WITH POWER COMPANY.



CALCULATED
CHECKED

LIGHTING AND RRFB DETAILS

PIC-ASHVILLE-PED
IMPROVEMENT

9/5

RECTANGULAR RAPID FLASHING BEACON NOTES

ITEM 630 SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) PEDESTRIAN WARNING SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING PEDESTRIAN CROSSING WARNING SIGN ASSEMBLIES WITH SOLAR POWERED RECTANGULAR RAPID FLASHING BEACONS (RRFB). THE FLASHING UNITS SHALL BE LED, SOLAR POWERED, AND PEDESTRIAN ACTIVATED. MULTIPLE UNITS SHALL BE WIRELESSLY CONTROLLED AND SYNCHRONIZED.

PLAN AND SPECIFICATION COMPLIANCE

THE CONTRACTOR SHALL FURNISH AND INSTALL RECTANGULAR RAPID FLASHING BEACONS IN ACCORDANCE WITH THE STANDARDS SPECIFIED IN THE FOLLOWING DOCUMENTS. ODOT SHALL DETERMINE WHETHER THE SUPPLIED ITEMS MEET OR EXCEED THESE SPECIFICATIONS.

- (A) FHWA MUTCD INTERIM APPROVAL 21 - RECTANGULAR RAPID-FLASHING BEACONS AT CROSSWALKS (IA-21)
- (B) OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
- (C) SPECIFICATIONS LISTED IN THIS PLAN
- (D) 2018 CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS
- (E) CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS

IN CASE OF A CONFLICTING SPECIFICATION STATEMENT, THE SPECIFICATION DOCUMENT HIERARCHY SHALL BE IN THE ORDER LISTED FROM (A) HIGHEST, TO (E) LOWEST.

GENERAL REQUIREMENTS

EACH RRFB LIGHT BAR UNIT SHALL CONSIST OF TWO RAPIDLY AND ALTERNATELY FLASHING RECTANGULAR YELLOW INDICATIONS HAVING LED ARRAY BASED PULSING LIGHT SOURCES. EACH PEDESTRIAN WARNING SYSTEM SHALL CONSIST OF, BUT NOT NECESSARILY BE LIMITED TO SIGNAGE, SIGN MOUNTING HARDWARE, PUSHBUTTONS, RRFB INDICATIONS, SOLAR PANELS, AND OTHER ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). SIGN SUPPORTS AND FOUNDATIONS ARE NOT INCLUDED IN THIS ITEM OF WORK AND SHALL BE PAID FOR SEPARATELY.

THE FOLLOWING MODELS ARE APPROVED BY ODOT AS MEETING THESE SPECIFICATIONS:

- 1.) CARMANAH R920-F
- 2.) OR APPROVED EQUAL

FUNCTIONAL REQUIREMENTS

EACH RRFB UNIT SHALL UTILIZE SOLAR POWER. RRFB UNITS SHALL BE ACTIVATED BY ADA-COMPLIANT PUSHBUTTONS. THE RRFB UNITS SHALL BE NORMALLY DARK AND SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION.

RRFB FLASH DURATION SHALL BE SET TO THE FOLLOWING VALUES: 18 SECONDS

EACH REMOTE RRFB UNIT (THE UNIT ON OPPOSITE SIDE OF STREET FROM EACH PUSHBUTTON) SHALL BE WIRELESSLY ACTIVATED. EACH UNIT SHALL BE LOW CURRENT/HIGH OUTPUT INCLUDING AUTOMATIC DIMMING CAPABILITIES FOR DAY AND NIGHT VISIBILITY. THE UNITS SHALL BE CAPABLE OF RUNNING UP TO 30 DAYS WITHOUT SUNLIGHT. IF VOLTAGES OVER 50V AC OR DC ARE PRESENT, GROUNDING AND BONDING REQUIREMENTS SPECIFIED IN THE CMSC SHALL BE FOLLOWED.

MATERIALS

FURNISH A COMPLETE SYSTEM FOR EACH PEDESTRIAN CROSSING INDICATED IN THE PLANS. THE SYSTEM INCLUDES THE FOLLOWING ITEMS:

1. RRFB INDICATIONS

- A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- B. THE TWO RRFB INDICATIONS FOR EACH UNIT SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL THE ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
- D. EACH RRFB UNIT SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE OR THE AHEAD PLAQUE IF USED ON AN ADVANCE SIGN ASSEMBLY.
- E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS SHALL MEET THE MINIMUM SPECIFICATIONS FOR CLASS 1 YELLOW PEAK LUMINOUS INTENSITY OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) STANDARD J595 (DIRECTIONAL FLASHING OPTICAL WARNING DEVICES FOR AUTHORIZED EMERGENCY, MAINTENANCE, AND SERVICE VEHICLES) DATED JANUARY 2005.
- F. A SMALL CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

2. SIGNS

- A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- B. SIGNS SHALL BE REQUIRED FOR VIEW FROM EACH APPROACH AS SHOWN ON THE PLAN.
- C. UNLESS MOUNTED BACK-TO-BACK WITH ANOTHER SIGN, THE BACK OF EACH SIGN AND ALL VISIBLE ELEMENTS OF SIGN MOUNTING HARDWARE, EXCLUDING THE BANDING, SHALL BE COATED TO MATCH ITS RESPECTIVE SUPPORT. NUTS AND BOLTS NEED NOT BE PAINTED. ALL PAINTING SHALL BE PERFORMED UNDER CONTROLLED ENVIRONMENTAL CONDITIONS, AND IN ACCORDANCE WITH ALL MANUFACTURER RECOMMENDATIONS PERTAINING TO SURFACE PREPARATION, MATERIAL HANDLING, AND APPLICATION. PRIOR TO PAINTING, A PAINT SAMPLE SHALL BE SUBMITTED FOR REVIEW.

3. CONTROL CIRCUIT

- A. WHEN ACTIVATED, THE TWO YELLOW INDICATIONS IN EACH RRFB SHALL FLASH IN A RAPIDLY ALTERNATING "WIG-WAG" SEQUENCE.
- B. ALL RRFB UNITS ASSOCIATED WITH A GIVEN CROSSING (INCLUDING ADVANCE UNITS IF APPLICABLE) SHALL, UPON ACTIVATION, SIMULTANEOUSLY COMMENCE FLASHING AND SHALL SIMULTANEOUSLY CEASE FLASHING.
- C. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF INDEPENDENTLY FLASHING UP TO TWO INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND FLASH PATTERN SHALL BE COMPLETELY PROGRAMMABLE.
- D. THE FLASH PATTERN AND DURATION OF THE RRFB INDICATIONS SHALL MEET THE REQUIREMENTS OF FHWA MUTCD INTERIM APPROVAL 21.
- E. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW SAFE HANDLING IN ALL WEATHER CONDITIONS.
- F. THE I-EDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURES AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.

4. BATTERY AND SOLAR PANELS

- A. THE SOLAR PANEL AND CONTROLLER MANUFACTURER WILL PROVIDE SIGNED COPIES OF CALCULATIONS USED TO SIZE THE SOLAR PANEL AND BATTERIES. INCLUDED IN THESE CALCULATIONS WILL BE THE INSOLATION VALUE USED AND ITS SOURCE, THE SOLAR PANEL EFFICIENCY, PROPOSED LED LAMP LOAD, AND A FIGURE REPRESENTING ANTICIPATED MISCELLANEOUS LOSSES.
- B. THE SOLAR PANEL MANUFACTURER MUST TEST EACH PANEL ACCORDING TO IEC6215 OR EQUIVALENT APPROVED STANDARD. SOLAR PANEL MOUNTING MUST BE RATED FOR 90 MPH DESIGN WIND.
- C. EACH BATTERY UNIT SHALL BE A 12 VDC, 34 AHR MINIMUM, SEALED GEL OR ACM LEAD ACID BATTERY. BATTERIES SHALL HAVE WRITTEN TWO-YEAR FULL REPLACEMENT WARRANTY.
- D. FOUR (4) BATTERIES SHALL BE PROVIDED PER SOLAR ENGINE.
- E. THE SOLAR PANEL SHALL PROVIDE A MINIMUM OF 55 WATTS PEAK TOTAL OUTPUT.
- F. THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET (COATED TO MATCH THE SUPPORT POLE) AND ANGLED TO PROVIDE MAXIMUM OUTPUT.
- G. ALL FASTENERS USED SHALL BE ANTI-VANDAL.

5. WIRELESS RADIO

- A. RADIO CONTROL SHALL OPERATE ON A 900 MHZ FREQUENCY HOPPING SPREAD SPECTRUM NETWORK, WI-FI, OR APPROVED EQUAL.
- B. RADIO SHALL INTEGRATE COMMUNICATION OF RRFB CONTROL CIRCUIT TO ACTIVATE SIGN FROM PUSHBUTTON INPUT.
- C. THE RADIO SHALL BE SYNCHRONIZED SO ALL OF THE REMOTE RRFB LIGHT INDICATIONS WILL TURN ON WITHIN 120 MSEC OF EACH OTHER AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE.

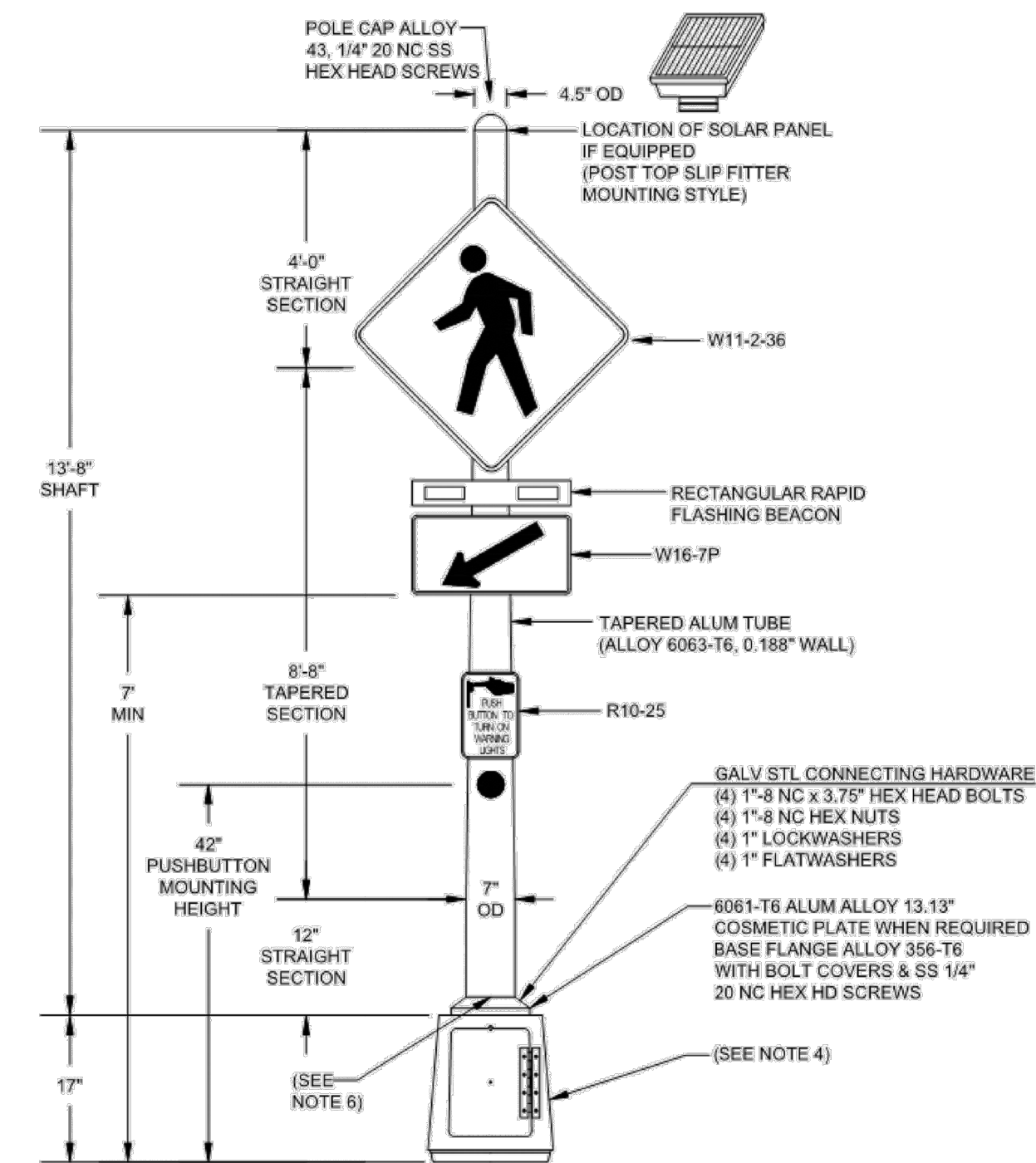
6. PUSHBUTTON AND PUSHBUTTON SIGNS

- A. PUSHBUTTONS SHALL BE PER CMSC 732.06 AND THE CITY'S TRAFFIC QUALIFIED PRODUCTS LIST. ONE SIGN (RIO-25-9) SHALL BE SUPPLIED AND MOUNTED WITH EACH PUSHBUTTON. THE BOTTOM OF THE SIGN SHALL BE MOUNTED JUST ABOVE THE TOP OF THE PUSHBUTTON. MOUNT THE CENTER OF THE PUSHBUTTON 42" ABOVE THE PEDESTRIAN PATHWAY SURFACE.

INSTALLATION

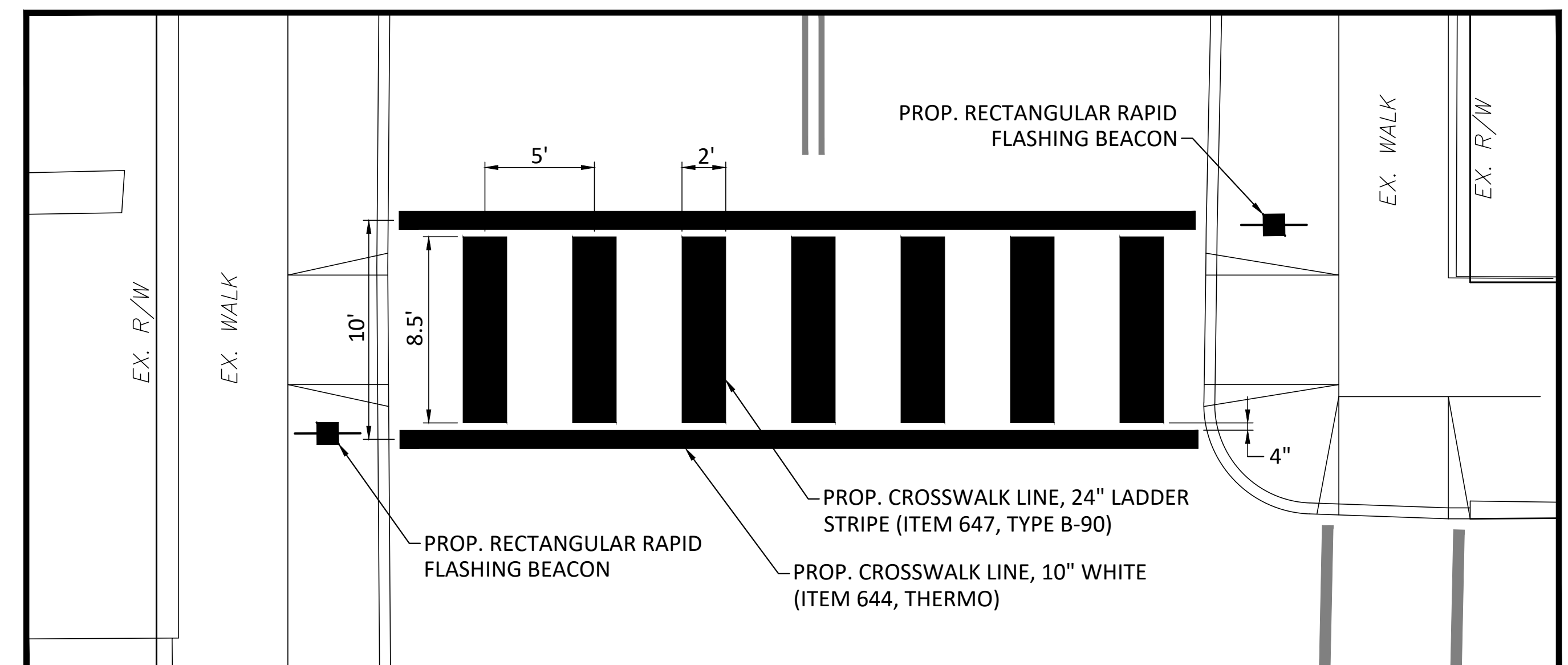
THE RECTANGULAR RAPID FLASHING BEACONS, SIGNS, AND PUSHBUTTONS SHALL REMAIN COVERED UNTIL THE INSTALLATION HAS BEEN INSPECTED BY ODOT FOR INSTALLATION DEFECTS, CONFLICTS, AND SAFETY HAZARDS. ANYTIME THE RRFB IS OUT OF OPERATION, THE CROSSWALK SHALL BE CLOSED USING SIGNS, DETOURS, AND BARRICADES TO PREVENT USE OF THE CROSSWALK. UPON APPROVAL BY ODOT, THE CONTRACTOR SHALL UNCOVER THE RRFB UNITS, SIGNS, AND PUSHBUTTONS AND OPEN THE CROSSWALK FOR USE.

PAYMENT SHALL BE PER THE UNIT PRICE BID FOR ITEM 630 SIGNING, MISC.: SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) PEDESTRIAN WARNING SYSTEM AND SHALL INCLUDE THE PEDESTRIAN CROSSING SIGNS, PUSHBUTTONS AND PUSHBUTTON SIGNS, ALL EQUIPMENT RELATED TO THE RECTANGULAR RAPID FLASHING BEACONS, ALL COVERINGS SPECIFIED, AND ALL LABOR NECESSARY TO CONSTRUCT AND INSTALL A FULLY FUNCTIONING RRFB SYSTEM PER EACH PEDESTRIAN CROSSING INDICATED IN THE PLANS.



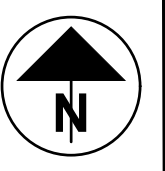
RECTANGULAR RAPID FLASHING BEACON DETAIL

-NOT TO SCALE-



RECTANGULAR RAPID FLASHING BEACON CROSSING DETAIL

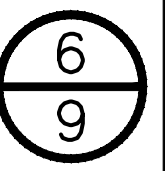
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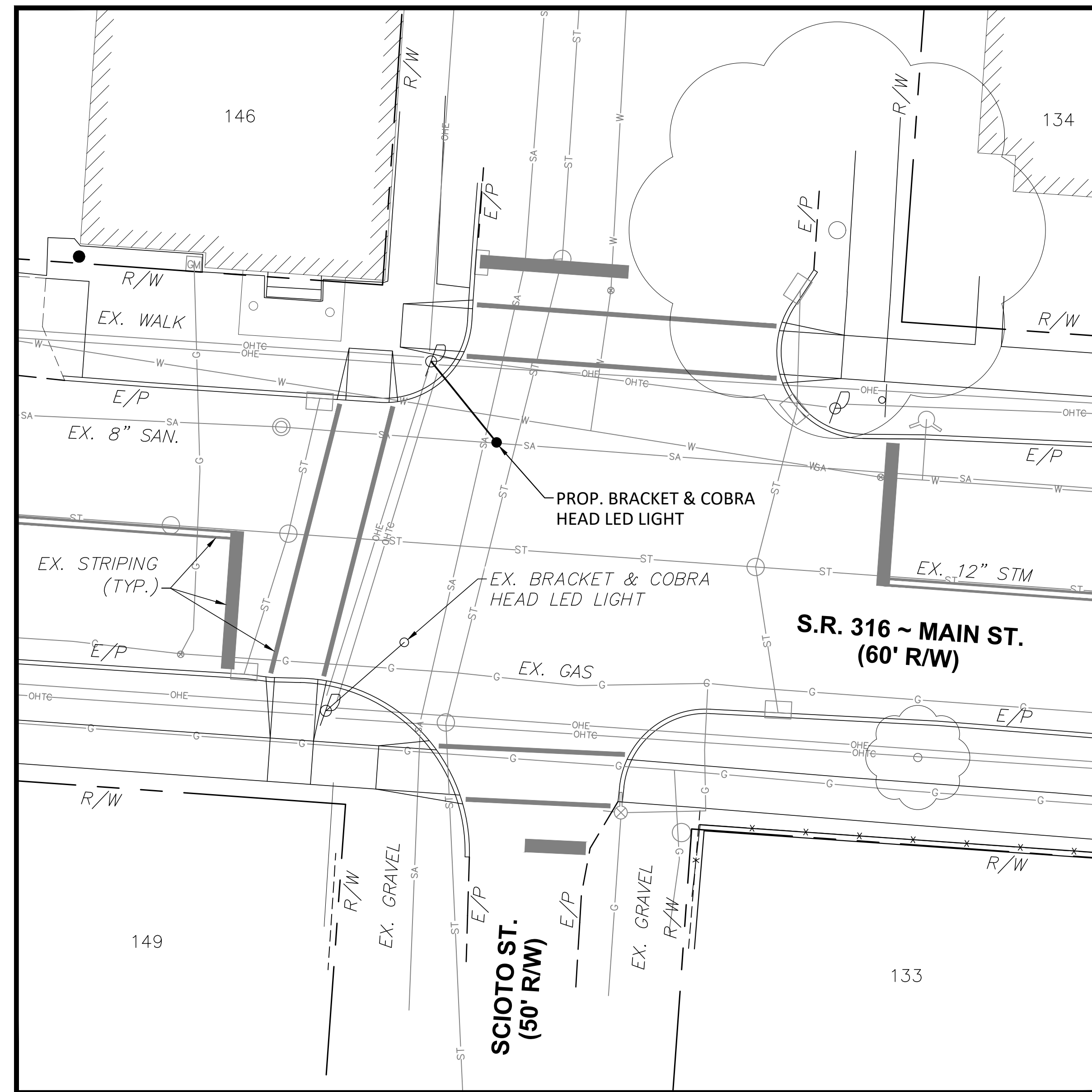


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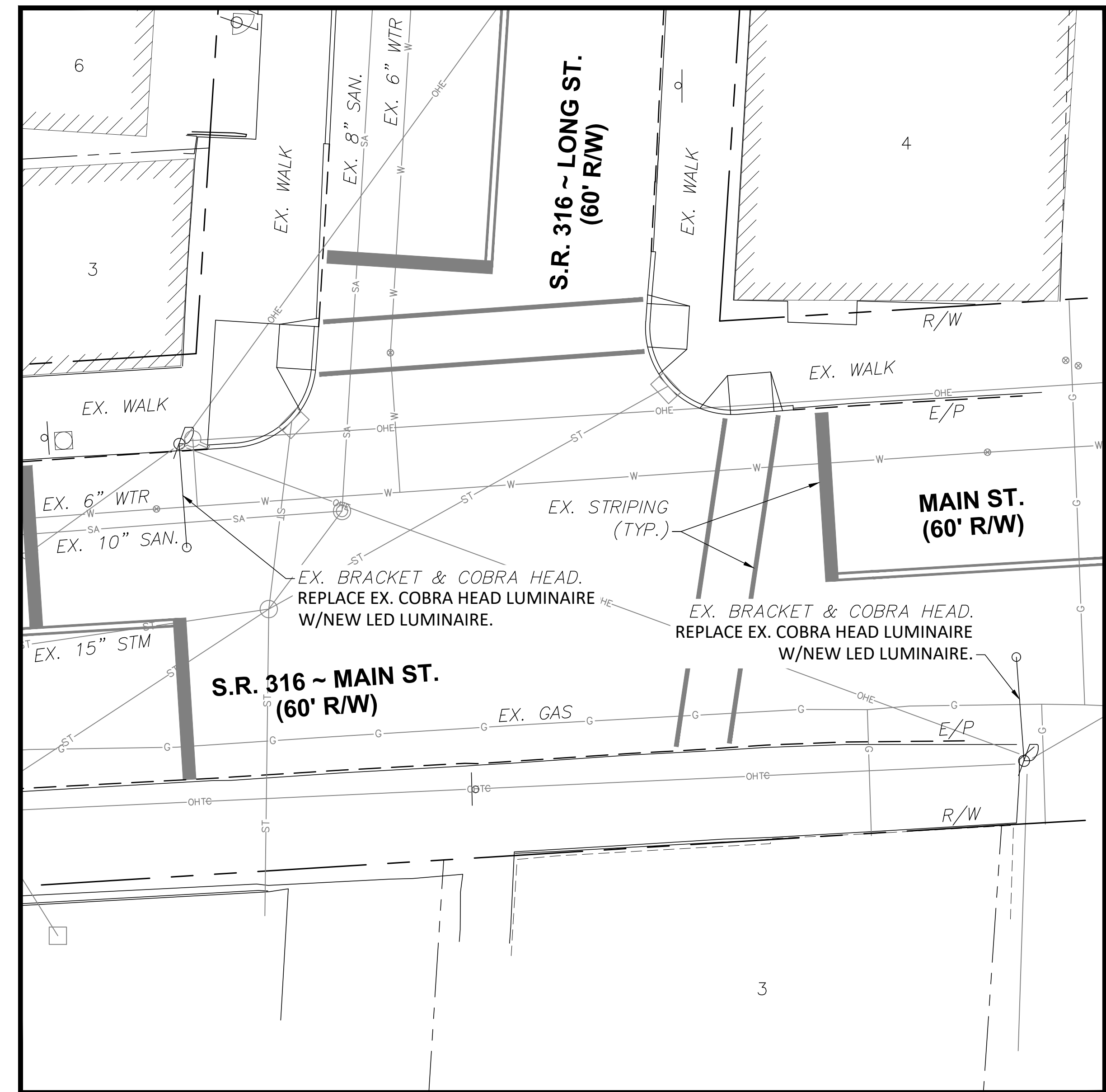
LIGHTING AND RRFB DETAILS

PIC-ASHVILLE-PED IMPROVEMENT












**MAIN STREET AND SCIOTO STREET INTERSECTION
SITE 1**

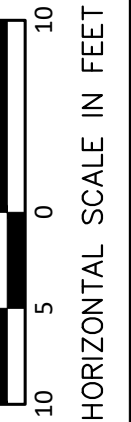


**MAIN STREET AND LONG STREET INTERSECTION
SITE 2**

STREET LIGHTING NOTE:
CONTRACTOR TO COORDINATE THE INSTALLATION OF STREET LIGHTING WITH SOUTH CENTRAL POWER.

CIRCUIT SCHEMATIC LEGEND

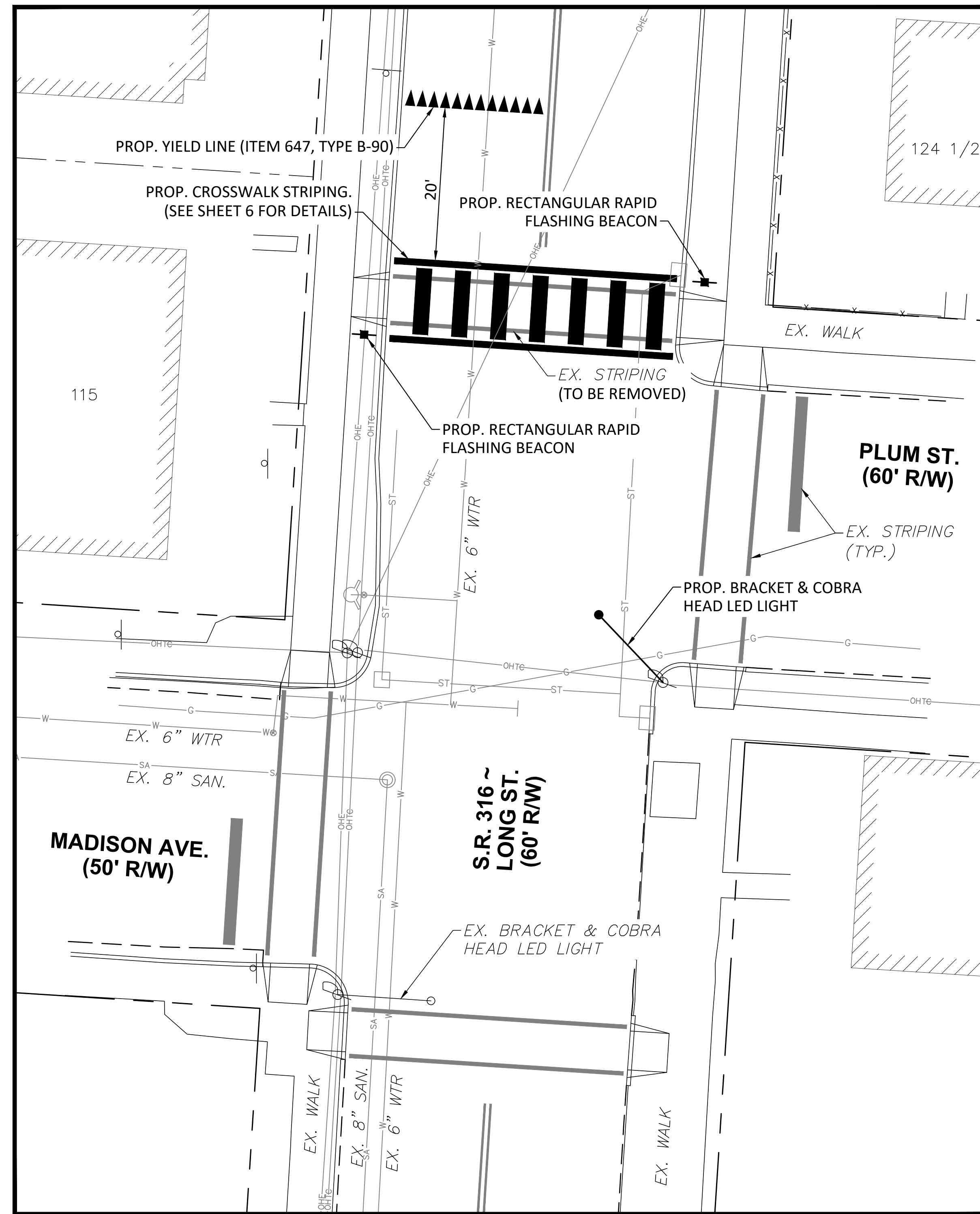
-  PROPOSED LIGHT BRACKET & COBRA HEAD LUMINAIRE
-  PROPOSED RECTANGULAR RAPID FLASHING BEACON
-  EXISTING OVERHEAD ELECTRIC
-  EXISTING OVERHEAD TELEPHONE & CABLE
-  EXISTING POWER POLE
-  EXISTING LIGHT POLE
-  EXISTING COBRA HEAD LIGHT



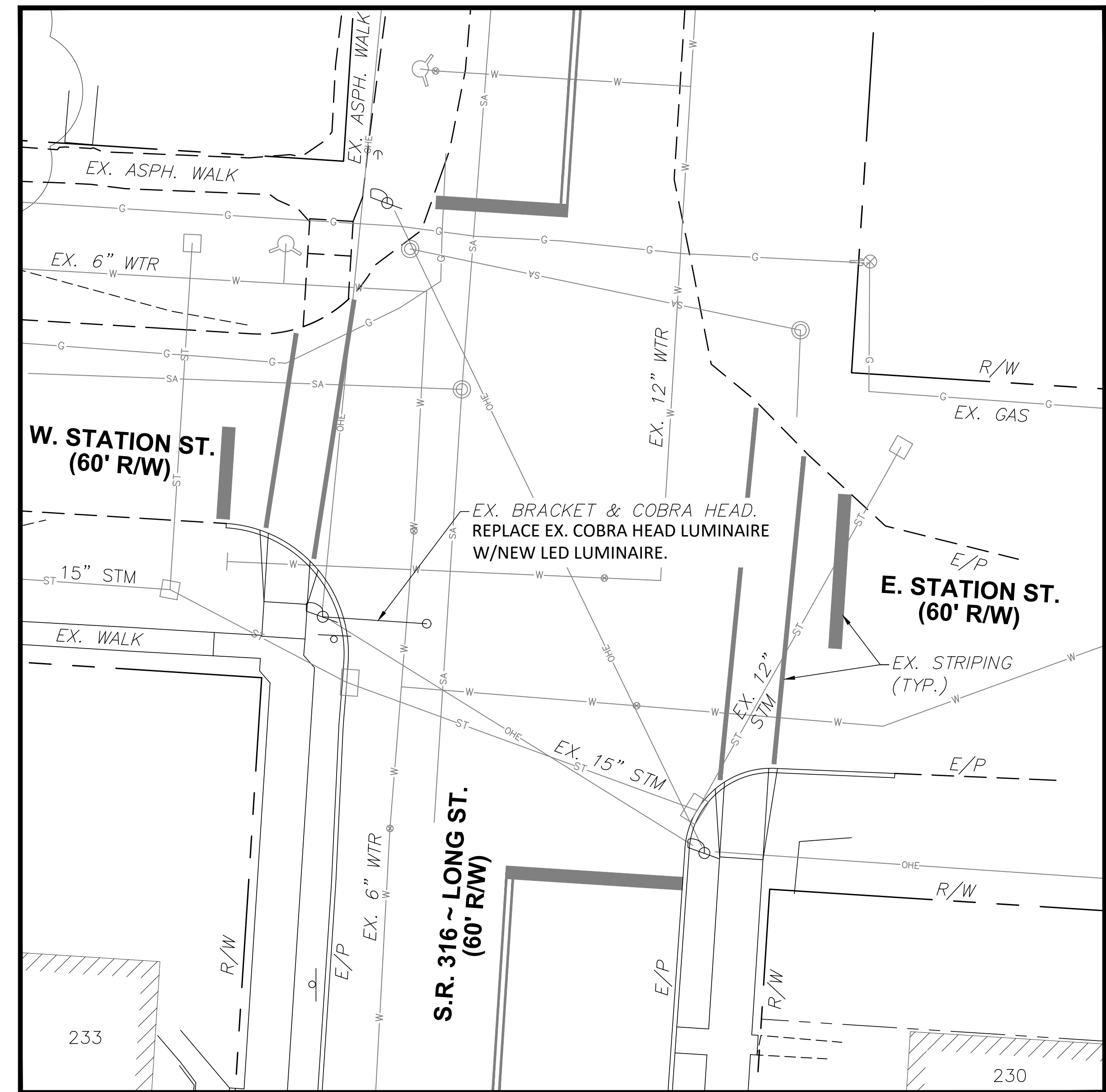
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STREET LIGHTING & RRFB PLAN

PIC-ASHVILLE-PED IMPROVEMENT









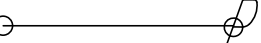
**LONG STREET AND PLUM STREET INTERSECTION
SITE 3**

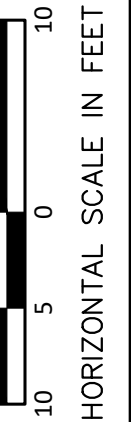


**LONG STREET AND STATION STREET INTERSECTION
SITE 4**

STREET LIGHTING NOTE:
CONTRACTOR TO COORDINATE THE INSTALLATION OF STREET LIGHTING WITH SOUTH CENTRAL POWER.

CIRCUIT SCHEMATIC LEGEND

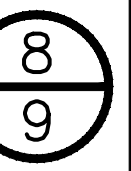
-  PROPOSED LIGHT BRACKET & COBRA HEAD LUMINAIRE
-  PROPOSED RECTANGULAR RAPID FLASHING BEACON
-  EXISTING OVERHEAD ELECTRIC
-  EXISTING OVERHEAD TELEPHONE & CABLE
-  EXISTING POWER POLE
-  EXISTING LIGHT POLE
-  EXISTING COBRA HEAD LIGHT

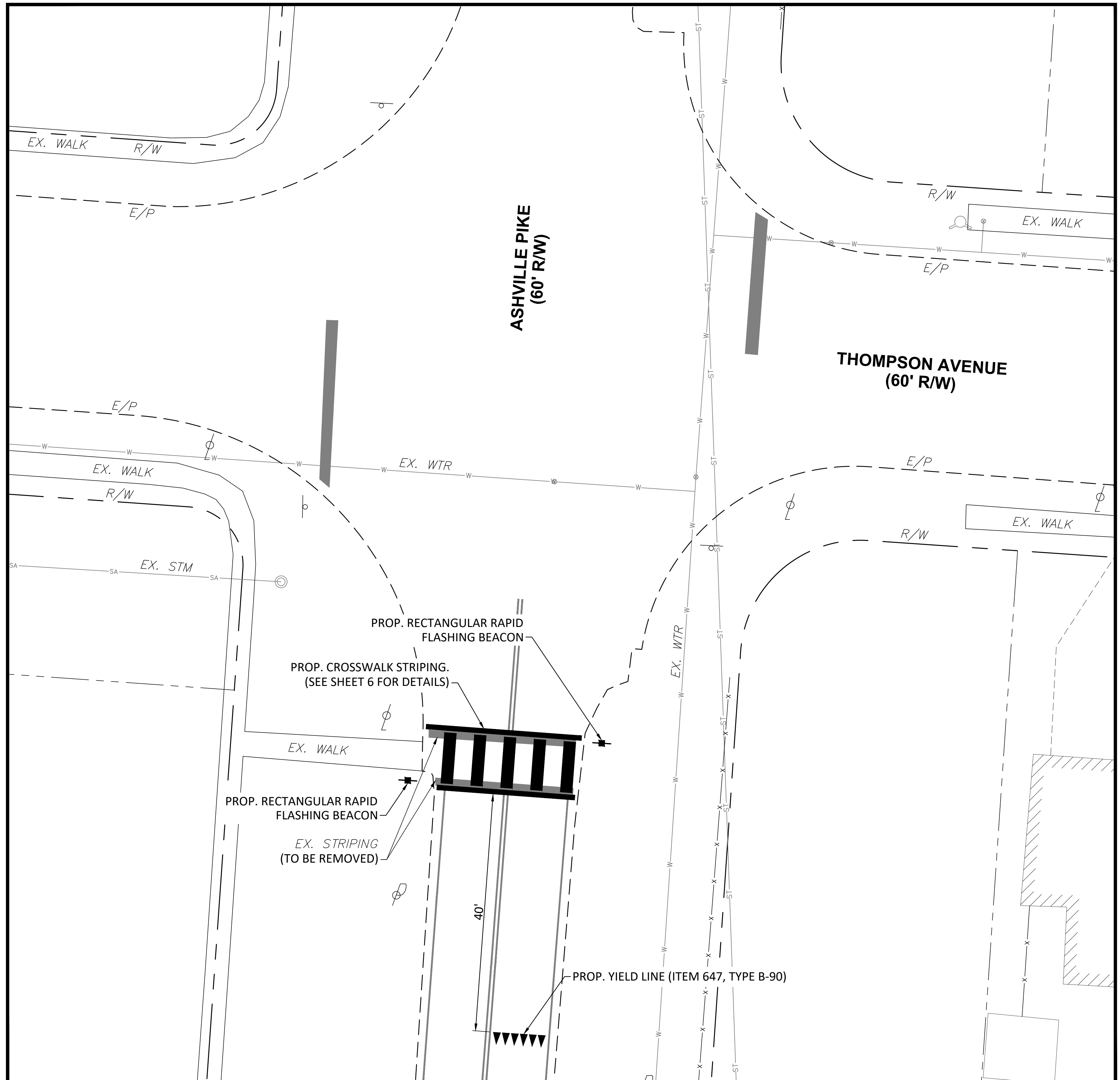


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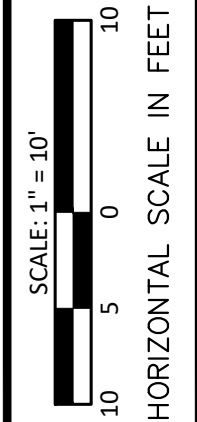
STREET LIGHTING & RRFB PLAN

PIC-ASHVILLE-PED IMPROVEMENT





ASHVILLE PIKE AND THOMPSON AVENUE INTERSECTION
SITE 5



CALCULATED
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STREET LIGHTING & RRFB PLAN

STREET LIGHTING NOTE:
 CONTRACTOR TO COORDINATE THE INSTALLATION OF STREET LIGHTING WITH SOUTH CENTRAL POWER.

CIRCUIT SCHEMATIC LEGEND

- PROPOSED LIGHT BRACKET & COBRA HEAD LUMINAIRE
- PROPOSED RECTANGULAR RAPID FLASHING BEACON
- EXISTING OVERHEAD ELECTRIC
- EXISTING OVERHEAD TELEPHONE & CABLE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING COBRA HEAD LIGHT

PIC-ASHVILLE-PED IMPROVEMENT

