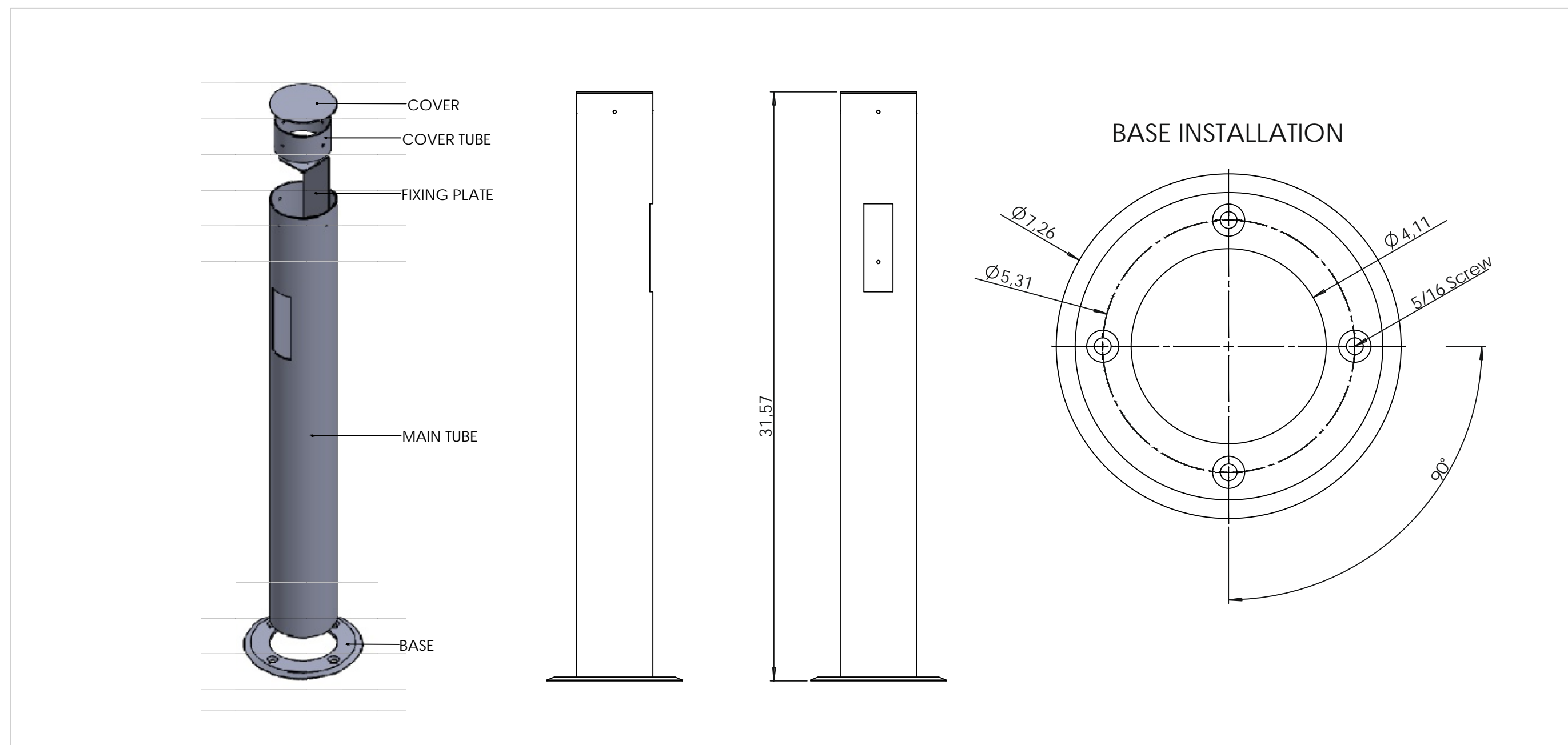
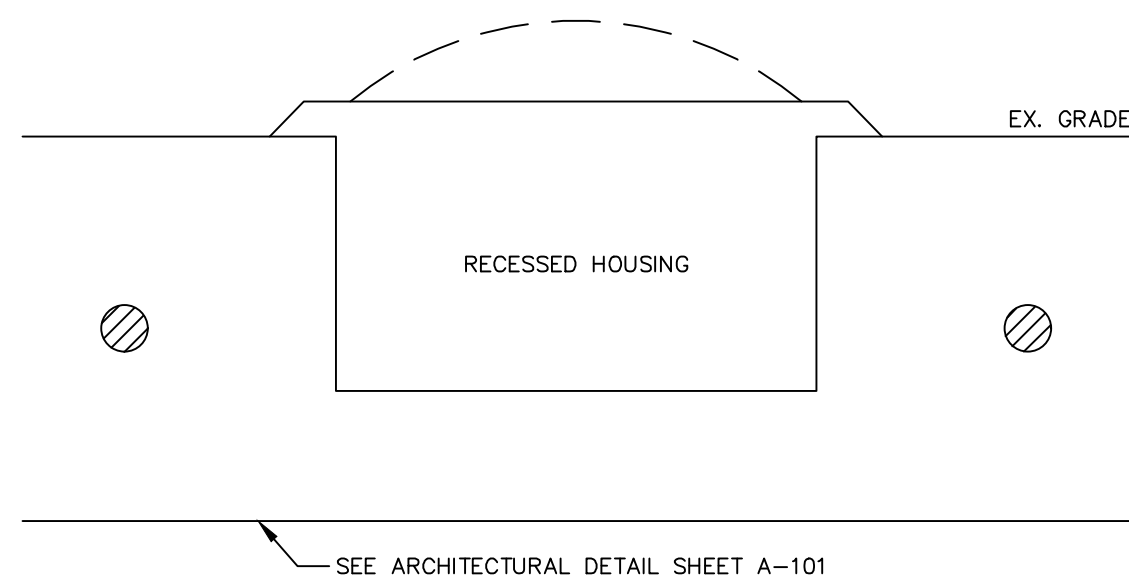


1 SCHEMATIC WIRING DIAGRAM (TYPICAL)
Scale: NOT TO SCALE



2 INFRARED BOLLARD DETAIL 'SB' TYPE
Scale: NOT TO SCALE



3 LED "BRICK" LIGHT & WARNING LIGHT
Scale: NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL SCAN EXISTING ELEVATED ROADWAY WITH GROUND PENETRATING RADAR TO MISS REBAR SECTIONS. CONTRACTOR SHALL INSTALL PER MANUFACTURER RECOMMENDED DETAILS WITH BOTH ASPHALT AND CONCRETE TO ENSURE SOLID ENDURING INSTALLATION.

ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS:

DRAWING CONVENTIONS

- NEW WORK
- EXISTING TO REMAIN

BRANCH CIRCUITS

- CONCEALED IN CEILING, WALL, OR IN CEILING SLAB.
- CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
- EXPOSED.
- RUN IN FLEXIBLE METAL CONDUIT.
- EMPTY CONDUIT, 3/4" UNLESS OTHERWISE NOTED WITH NYLON PULL CORD.
- CONDUIT SEAL FITTING: CROUSE-HINDS KEYS OR APPROVED EQUIVALENT.
- HOMERUN TO PANELBOARD AND 20A, 1P BREAKER, UON.
- NOTE: SHOWN 2#12 AND 1#12(G)-1/2".
- 3#12 AND 1#12(G)-3/4"
- 4#12 AND 1#12(G)-3/4"
- 10 - 2#10 AND 1#10(G)-3/4"
- 10 - 3#10 AND 1#10(G)-3/4"
- SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE NUMBER OF WIRES REQUIRED. GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-55. NUMBER OF HASHMARKS DO NOT INCLUDE GROUND WIRE.

POWER

- AC POWER SUPPLY, 120V
- SYSTEM CONTROLLER - PER MANUFACTURER SPECS.
- PHOTO-ELECTRIC / PHOTOCELL SWITCH
- HANDHOLE

JUNCTION & OUTLET BOXES

- JUNCTION BOX - IN-GRADE MTD
- JUNCTION BOX - CEILING MTD
- JUNCTION BOX - WALL MTD

LIGHTING

- IN-ASPHALT OR CONCRETE UNI-DIRECTIONAL LED
- ARROW INDICATES LUMINAIRE DIRECTION
- IN-PAVEMENT RECTANGULAR LED
- SENSOR BOLLARD

ELECTRICAL NOTES

- THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
- ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, JOINED AND TERMINATED WITH SET SCREW TYPE STEEL FITTINGS, 1/2" CONDUIT.
- AC CABLING CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE NON-METALLIC FOR IN GRADE USE, 1/2" CONDUIT.
- AC CABLING CONDUIT SHALL BE GALVANIZED STEEL RIGID EMT WITH PRESSURE FITTING FOR ABOVE GRADE USE, 1/2" CONDUIT.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.

ABBREVIATIONS

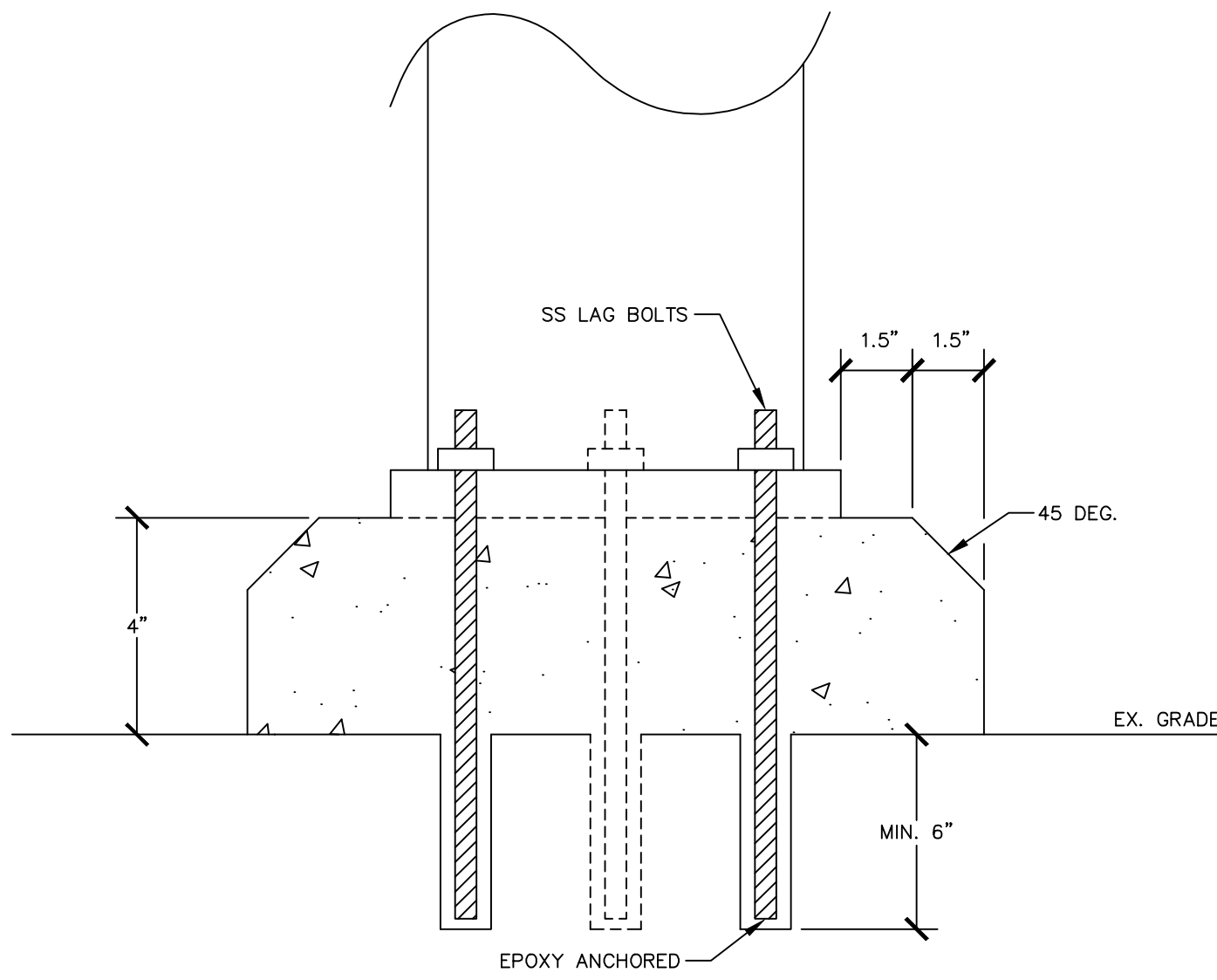
A	AMPERES	CFOI	CONTRACTOR FURNISHED
AA	AMBIENT AIR COOLED		CONTRACTOR INSTALLED
AIC	AMPERES INTERRUPTING CAPACITY	CFOI	CONTRACTOR FURNISHED
AFF	ABOVE FINISHED FLOOR		OWNER INSTALLED
AL	ALUMINUM		
ATS	AUTOMATIC TRANSFER SWITCH	OFOI	OWNER FURNISHED
AWG	AMERICAN WIRE GAUGE		OWNER INSTALLED
C	CONDUIT RACEWAY	OFOI	OWNER FURNISHED
CU	COPPER		CONTRACTOR INSTALLED
CKTS	CIRCUITS		
CTTS	CLOSED TRANSITION TRANSFER SWITCH	OC	ON CENTER
DIA	DIAMETER	OHE	OVERHEAD ELECTRICAL
EC	ELECTRICAL CONTRACTOR	P	POLES
EM	EMERGENCY	PF	POWER FACTOR
EP	EXPLOSION PROOF	PH	PHASES
FA	FORCED AIR COOLED	PVC	POLYVINYL CHLORIDE RACEWAY
FMC	FLEXIBLE METAL CONDUIT	RGS	RIGID GALVANIZED STEEL
G	GROUND	UG	UNDERGROUND ELECTRICAL
H	MOUNTING HEIGHT TO CENTERLINE	UGC	UNDERGROUND COMMUNICATIONS
HD	HIGH INTENSITY DISCHARGE	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	V	VOLTS
IG	ISOLATED GROUND	W	WIRES
KVA	KILOVOLT-AMPERES	WP	WEATHERPROOF, NEMA 3R
KW	KILOWATT		
LT	LIQUID TIGHT FLEXIBLE METAL CONDUIT	EX	EXISTING TO REMAIN
KCML	THOUSAND CIRCULAR MILS	XR	EXISTING, REMOVE
MV	MEDIUM VOLTAGE	XRV	EXISTING, REMOVE & RELOCATE
N	NEUTRAL	XRL	EXISTING, RELOCATED
NEC	NATIONAL ELECTRICAL CODE	XRB	EXISTING, REMOVE DEVICE AND INSTALL BLANK COVER.
NIC	NOT IN CONTRACT		
NL	NIGHT LIGHT		

LUMINAIRE SCHEDULE					
MARK	QTY	LAMPS	DC	DESCRIPTION	SPECIAL OPTIONS & NOTES
LBD	64	LED AMBER - TRAFFIC	12V	LED UNI-DIRECTIONAL IN-ROAD MARKER, ALUMINUM HOUSING, 8 LEDs PER LEN, FLUSH MOUNTED INSTALL, 12-36VDC, 3-WIRE, AMBER COLOR LEDs, IP68 RATED, 5 YEAR WARRANTY.	18 AWG 3 CONDUCTOR UNSHIELDED CABLES IN PRE-CUT LENGTHS ARE PROVIDED FROM MANUFACTURER.
LCD		LED WHITE - TRAFFIC	12V	LED 360 DEGREE IN-ROAD MARKER, ALUMINUM HOUSING, 24 LEDs PER, FLUSH MOUNTED INSTALL, 12-36VDC, 3-WIRE, WHITE COLOR LEDs, IP68 RATED, 5 YEAR WARRANTY.	18 AWG 3 CONDUCTOR UNSHIELDED CABLES IN PRE-CUT LENGTHS ARE PROVIDED FROM MANUFACTURER.
LXW	152	LED WHITE	12V	LED IN-GRADE CROSSWALK FIXTURE, RECTANGULAR SHAPE, IK10 AND IP65 RATED, STAINLESS STEEL HOUSING, LED COLOR WHITE, BLUE AND RED, 3 COLOR OPTION, 5 YEAR WARRANTY.	18 AWG 3 CONDUCTOR UNSHIELDED CABLES IN PRE-CUT LENGTHS ARE PROVIDED FROM MANUFACTURER.
LLR		LED WHITE	12V	LED IN-GRADE CROSSWALK FIXTURE, LINEAR DRIVE OVER RATED IK10 AND IP65 RATED, 316 STAINLESS STEEL HOUSING, LED WHITE IN COLOR, 5 YEAR WARRANTY.	LINEAR FIXTURES IS CUSTOM LENGTH FOR EACH WALK. LINEAR LENGTH TO BE FIELD MEASURED. SEE NOTES ON PLANS FOR BID LENGTHS.
SB	48	N/A	12V	INFRARED BOLLARDS, INSTALLED IN SETS OF TWO, TRANSMITTER AND RECEIVER BOLLARD, STAINLESS STEEL FINISH.	SS HARDWARE

QTY # ARE REFERENCED TO BASE BID SET ONLY. NOT ALTERNATES.

LUMINAIRE SCHEDULE NOTES

- MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. CONTRACTOR SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED.
- VERIFY CONSTRUCTION PARAMETERS AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- PROVIDE LUMINAIRES WITH JOINING CONDUITS, IN-GRADE, WITH ALL MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.
- PROVIDE CONTROLS PER OWNER SPECIFICATIONS. FIXTURES ALWAYS ON, WHEN SENSOR IS TRIGGERED BY PEDESTRIAN, FIXTURES FLASHING FOR SET TIME.



2 BOLLARD BASE DETAIL
Scale: NOT TO SCALE



PROJECT INFORMATION:

Birmingham-Shuttlesworth
International Airport
Pedestrian Crosswalk
Safety Upgrades

5900 Messer Airport Hwy,
Birmingham, AL 35212

CLIENT INFORMATION:

bhm
Birmingham Airport
Authority

BAA PROJECT NO: -

NO.	DATE	SUBJECT
1	05-08-2025	ISSUED FOR BID
2	07-09-2025	ISSUED FOR BID SET 2
3	07-12-2025	ADDENDUM 1

NO. DATE SUBJECT
REVISION OR ISSUE

SSOE, Inc.
2204 Lakeshore Dr #110
Birmingham, AL 35209
T. (205) 323-2373

PROJECT NO: 025-00776-00
PROJECT MANAGER: Willoughby
DESIGNED: Simpson
CHECKED: York

DRAWING TITLE:
ELECTRICAL
LEGEND, DETAILS,
AND NOTES

DRAWING NO:
EP-001