

THE BIDDER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE COVERAGE PRIOR TO THE START OF WORK.

16. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.

17. PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.

18. COLOR CODING FOR CONDUCTORS:

A. WIRING FOR 120/208 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN

B. WIRING FOR 120/240 VOLT SYSTEM SHALL BE AS FOLLOWS:

PHASE A - BLACK
PHASE B - ORANGE (HIGH LEG)
PHASE C - RED
NEUTRAL - WHITE
GROUND - GREEN

C. WIRING FOR 277/480 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:

PHASE A - BROWN
PHASE B - ORANGE
PHASE C - YELLOW
NEUTRAL - GRAY
GROUND - GREEN

D. COLORS ON CONDUCTORS SIZE #6 AWG AND SMALLER SHALL BE AN INTEGRAL PART OF INSULATION ON CONDUCTORS SIZE #4 AWG AND LARGER CONDUCTORS SHALL BE COLOR CODED BY MEANS OF IDENTIFYING TAPE.

29. ANY WORK NOT SHOWN OR SPECIFICALLY MENTIONED ON THESE PLANS BUT CONSIDERED NECESSARY FOR COMPLETION OF WORK IN THE PROPER MANNER SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.

30. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT.

31. ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, RACKS, JUNCTION BOXES, FEEDERS, ETC. SHALL BE PROPERLY IDENTIFIED WITH A PERMANENT LABEL AFFIXED TO THE EQUIPMENT. IDENTIFY CIRCUITS IN PANELS BY MEANS OF A TYPED, PLASTIC COVERED DIRECTORY.

32. SPOT PAINT CONDUITS AND BOXES. IDENTIFY CONDUITS WITHIN 6 INCHES (6") OF BOX OR ENCLOSURE. USE COLOR CODE PER OWNER'S REQUIREMENTS/STANDARDS.

33. ALL SERVICE INTERRUPTIONS AND ALL REMOVAL AND DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED OWNER REPRESENTATIVE.

34. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS AND OTHER ITEMS INCLUDING REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

35. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PRINTS FOR INDICATING ALL CHANGES AS WORK PROGRESSES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE FORM. CONTRACTOR SHALL STAMP AS-BUILT ON EACH DRAWING AND INCLUDE SIGNATURE AND DATE.

36. CONTRACTOR IS RESPONSIBLE FOR REPLACING SURFACES, WALLS, CEILINGS, FLOORS, PARTITIONS, PAVEMENT, ETC. AFFECTED BY THE IMPLEMENTATION OF WORK SHOWN ON THESE DRAWINGS. UPON COMPLETION OF WORK, RESTORE ALL AFFECTED SURFACES MATCHING SURROUNDING SURFACE.

37. TELECOM RACEWAYS, EMPTY BOXES AND PULL STRINGS TO BE INSTALLED BY CONTRACTOR. WIRING AND USING DEVICES AND FINAL CONNECTION IS TO BE BY INSTALLED BY OWNER'S CONTRACTOR UNDER SEPARATE PERMIT.

38. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH A WARNING LABEL FOR ARC FLASH HAZARDS IN COMPLIANCE WITH NEC 106.6.

39. PROJECT TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF NFPA 241 "STANDARDS FOR SAFE GUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS."

40. CONTRACTOR SHALL PROVIDE THE REQUIRED MEASURES FOR THE SAFEGUARDING OF THE EXISTING FACILITY AND SYSTEMS THEREIN DURING THE PERFORMANCE OF THE WORK SHOWN ON THESE DRAWINGS PER NFPA 241.

41. CONTRACTOR SHALL RETURN SURFACE CONDITIONS (GRASS, SIDEWALKS, PAVING) TO LIKE NEW CONDITION AFTER INSTALLATION OF WORK.

42. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES APPLICABLE TO THIS PROJECT, INCLUDING BUT NOT LIMITED TO FLORIDA BUILDING CODE AND HEALTH AND SAFETY CODES.

A. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN A SAFE MANNER AND STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATION.

B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED," THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION MEETING TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE CITY OF MIAMI REPRESENTATIVE AND THE ENGINEER OF RECORD.

C. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING AND EXCAVATION. CALL 800-432-4TIO

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND FAMILIARIZING ITSELF WITH ALL EXISTING CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT LIMITED TO, UTILITIES AND OTHER SUPPORT FACILITIES.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING IN ITS BID, WORK MATERIAL COSTS FOR ANY CHANGES OR ALTERATIONS OF ADJACENT AREAS TO BE DISTURBED DURING CONSTRUCTION. THIS INCLUDES ANY AREA DAMAGED BECAUSE OF STAGING, DUMPSTER, AND SODDING DISTURBED BY CONSTRUCTION ACTIVITY.

LIGHTING

☐ J	CEILING MOUNTED JUNCTION BOX
☐ J	WALL MOUNTED JUNCTION BOX, 18" AFF. OR AS OTHERWISE NOTED.
☐ J	CEILING MOUNTED JUNCTION BOX, 12"x12"x6" DEEP MINIMUM UNLESS OTHERWISE INDICATED FOR DISTRIBUTION OF TELEPHONE/DATA SYSTEM
☐ PB	FULL BOX, SIZED AS INDICATED OR AS REQUIRED BY N.E.C.

POWER, LIGHTING OR DISTRIBUTION PANELBOARD. (NEW)

	CEILING MOUNTED SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	EXIT DOOR SECURITY ALARM WITH MONITOR MODULE TIED TO FIRE ALARM
	CEILING MOUNTED HEAT DETECTOR
	MANUAL FIRE ALARM PULL STATION, 48" AFF.
	FIRE ALARM STROBE LIGHT, A.D.A. TYPE.
	FIRE ALARM HORN, 4 STROBE LIGHT 80" AFF. A.D.A. TYPE.
	SHUT DOWN RELAY.
	FIRE ALARM PANEL
	FLOW SWITCH
	TAMPER SWITCH
	FIRE ALARM HORN, 80" AFF.
	FIRE ALARM SPEAKER 4 STROBE LIGHT 80" AFF. A.D.A. TYPE
	FIRE ALARM SYSTEM SPEAKER

	HOT/NEUTR TO PANEL "A" 1-3-5 ARE CIRCUIT NO'S. TICKS ON 3 CONDUCTORS (✓) INDICATES GROUND WIRE SIZED AS PER NEC 250.
	INDICATES A CONDUIT RUN CONCEALED IN A CEILING OR WALL.
	INDICATES A CONDUIT RUN CONCEALED IN FLOOR, EMBEDDED CONCRETE OR UNDERGROUND AT 24" BELOW GRADE MINIMUM.
	INDICATES A CAPPED UNDERGROUND.
	INDICATES A FLEXIBLE METAL CONDUIT CONNECTION. USE LIQUID TIGHT CONDUIT IN WET, DAMP OR OILY LOCATIONS.
	FLEXIBLE EQUIPMENT CONNECTION.
	CONDUIT RUN TURNED DOWN.
	CONDUIT RUN TURNED UP.
	CONDUIT EXPANSION JOINT

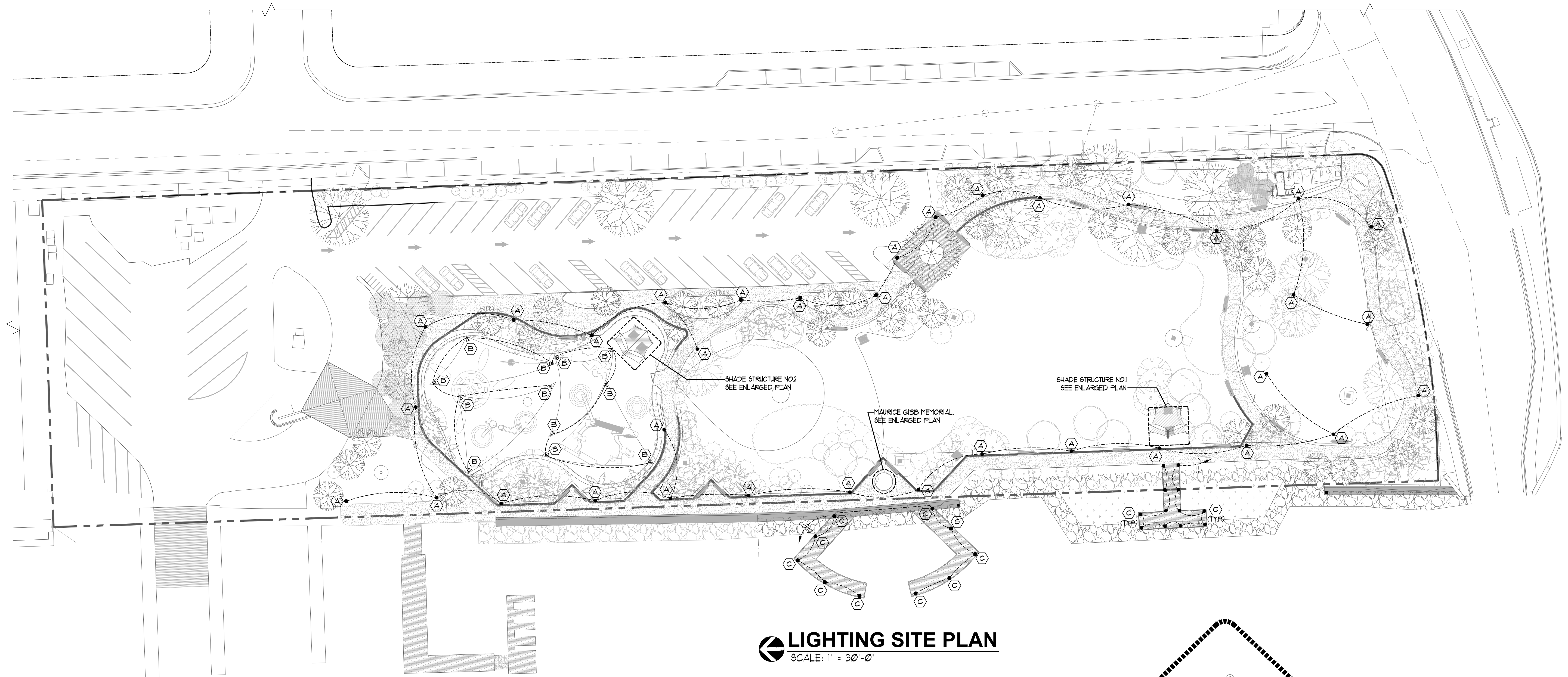
	LIGHTING FIXTURE TYPE. SEE LTG. FIXTURE SCHEDULE THIS SHEET
	RECESSED, SEMI RECESSED, SURFACE OR PENDANT MOUNTED
	ON NORMAL CIRCUIT 2 IS CIRCUIT NO. 'a' 'a' DENOTES SWITCH LEG
	SURFACE OR PENDANT MOUNTED FLUORESCENT FIXTURE
	SURFACE OR PENDANT MOUNTED FLUORESCENT FIXTURE
	FLUORESCENT RECESSED OR LAY-IN FIXTURE
	FLUORESCENT RECESSED OR LAY-IN FIXTURE
	SURFACE MOUNTED SINGLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED
	DOUBLE MOUNTED EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, T-6' AFF.
	SURFACE MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED
	WALL MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, T-6' AFF.
	SURFACE MTD. STRIP FLUORESCENT FIXTURE
	SURFACE MTD. STRIP FLUORESCENT FIXTURE,
	COMBINATION EXIT SIGN - EMERGENCY LIGHT

	S _K	SINGLE POLE TOGGLE SWITCH, 20A, KEY OPERATED 120/271 VAC. MOUNTED 48" AFF.
	S _q	SINGLE POLE TOGGLE SWITCH, 20A, 120/271 VAC. MOUNTED 48" AFF. 'a' SWITCH LEG.
	S ₃ S ₄	THREE-WAY AND FOUR WAY TOGGLE SWITCHES 20A, 120/271 VAC. MOUNTED 48" AFF.
	S _M	MANUAL MOTOR STARTER TOGGLE SWITCH WITH OVERLOADS, 48" AFF.
	3P $\frac{60}{50}$	SAFETY SWITCH, 3P = NO. OF POLES, 60 = SWITCH SIZE, 50 = FUSE SIZE.
	S _{oc}	OCCUPANCY TYPE WALL SWITCH

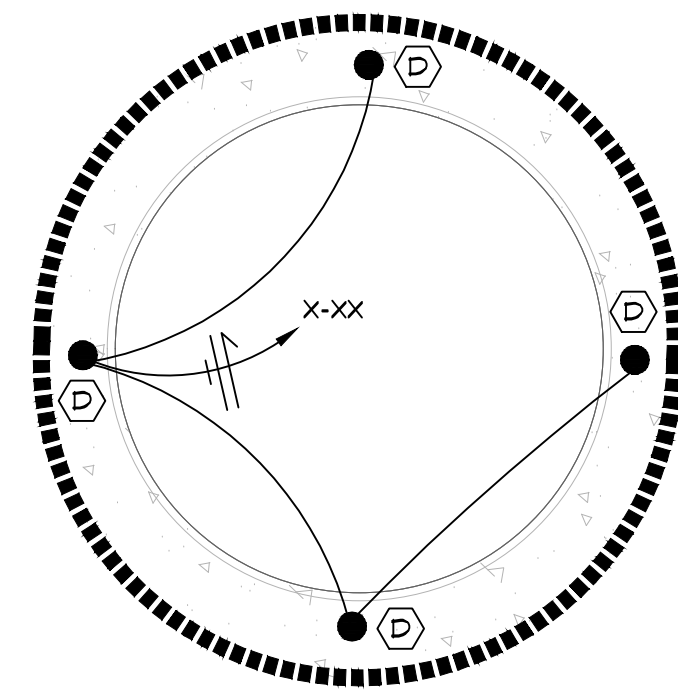
	TELEPHONE OUTLET
	ADMINISTRATIVE TELEPHONE OUTLET, MTD. 48" AFF.
	COMBINATION CLOCK SPEAKER
	TELEVISION TAP THRU OUTLET, MTD. 6'-8" AFF.
	CLASSROOM CALL BACK BUTTON
	P.A. PRIVACY SWITCH
	DATA OUTLET
	MOTION DETECTOR
	DOOR CONTACT
	PROXIMITY CARD READER
	MAGNETIC DOOR LOCK
	SECURITY SYSTEM KEY PAD
	CEILING MOUNTED CLOSED CIRCUIT TV CAMERA
	WALL MOUNTED CLOSED CIRCUIT TV CAMERA

	120V, 1 PHASE 60 HZ 20 AMP SINGLE RECEPTACLE
	120V, 1 PHASE, 60 HZ, 20 AMP, DUPLEX RECEPTACLE MTD. 18" AFF.
	SAME AS ABOVE EXCEPT MTD. AT 6" ABOVE COUNTER
	120V, 1 PHASE, 60 HZ, 20 AMP DUAL DUPLEX RECEPTACLE MTD. 18" AFF.
	DOUBLE DUPLEX RECEPTACLES MOUNTED AS PART OF SURFACE RACEWAY
	FLOOR OUTLET WITH (1) 120V, 1 PHASE 60 HZ 20 AMP DUPLEX RECEPT.
	SPECIAL PURPOSE RECEPTACLE.

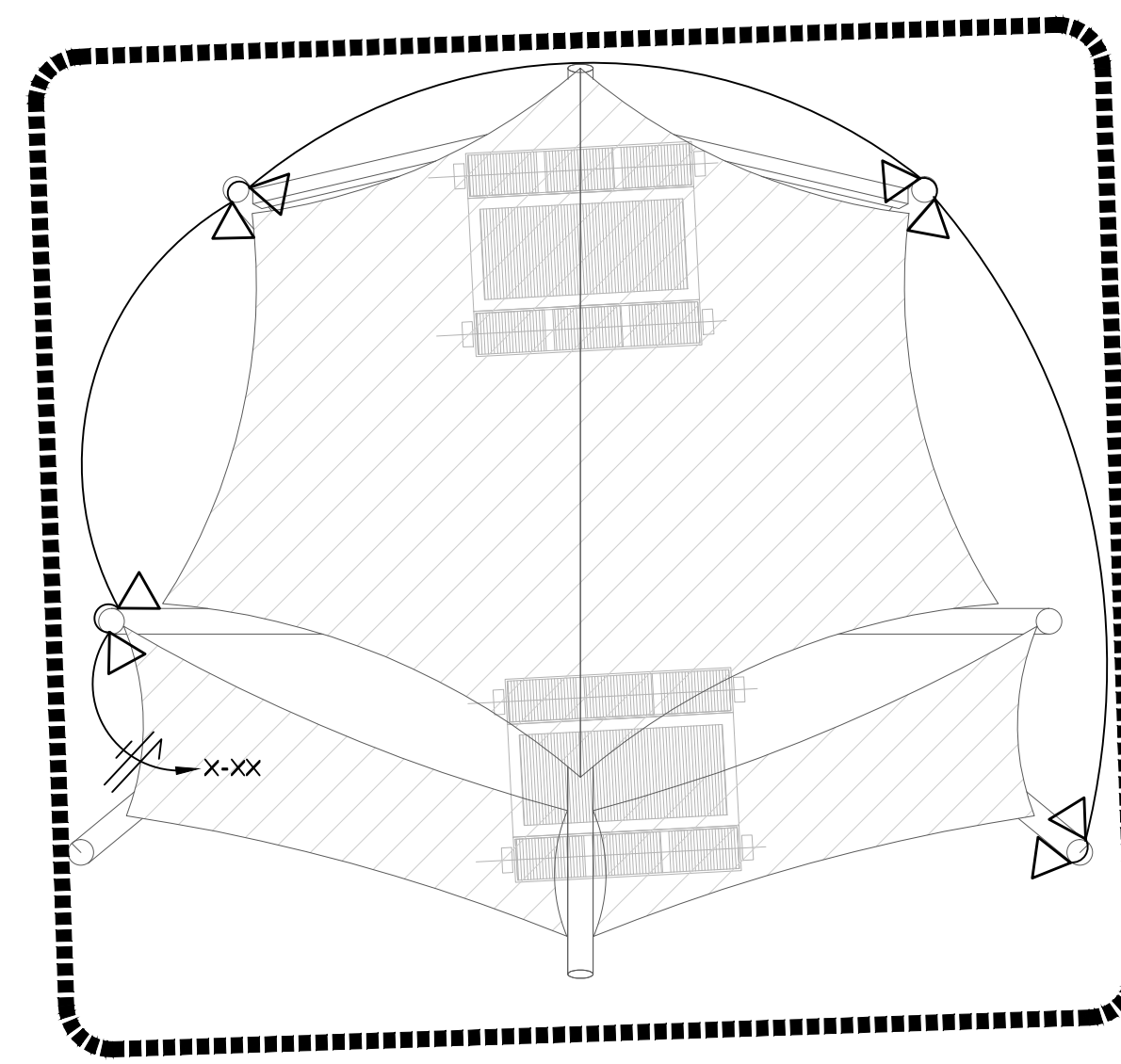
	MOTOR, 5 = 5 H.P. OR AS OTHERWISE INDICATED.
	MOTOR MAGNETIC STARTER
	VAV WITH DUCT HEATER CONTACTOR AND SAFETY DISCONNECT.
	THERMOSTAT



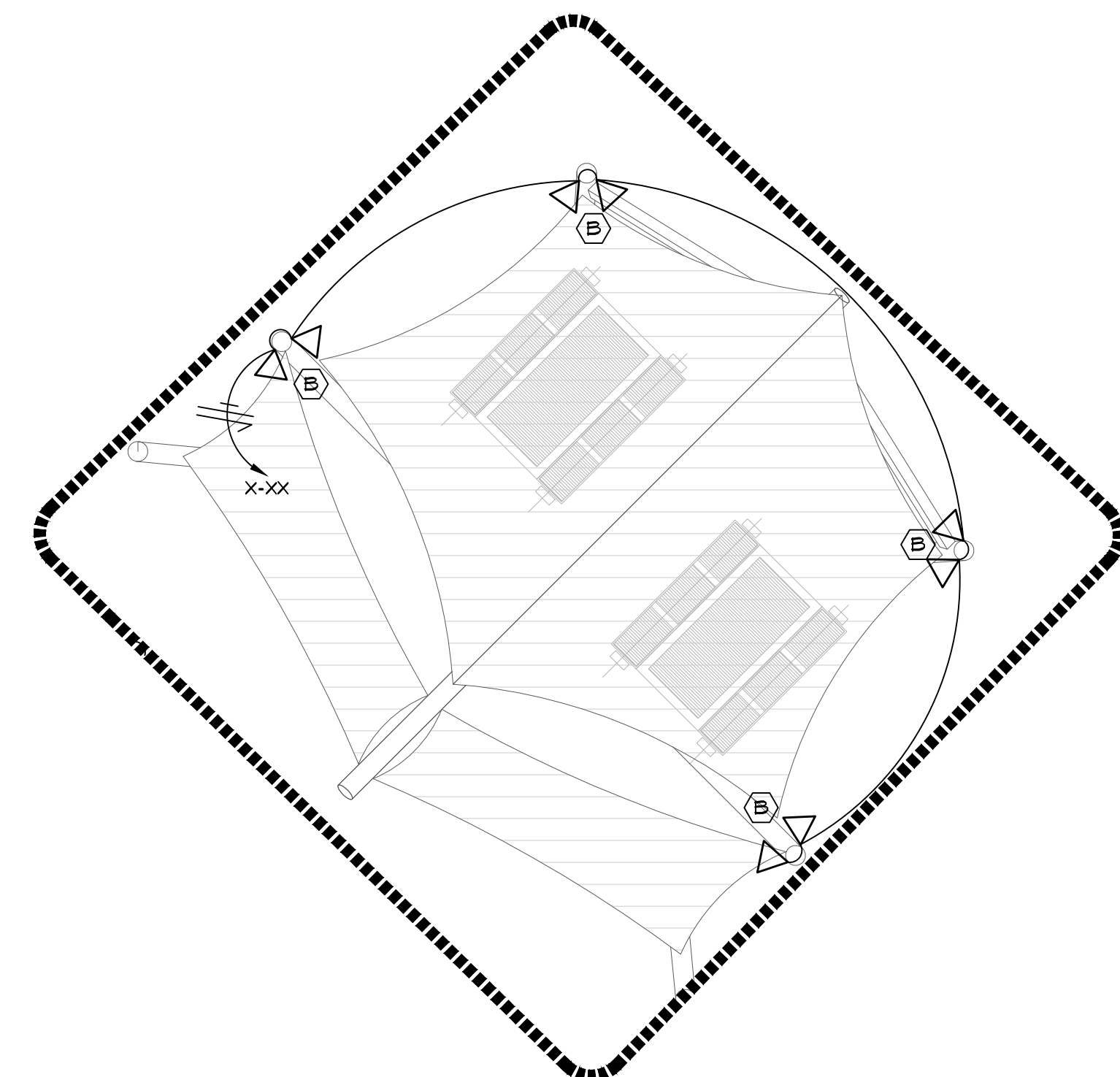
LIGHTING SITE PLAN
SCALE: 1" = 30'-0"



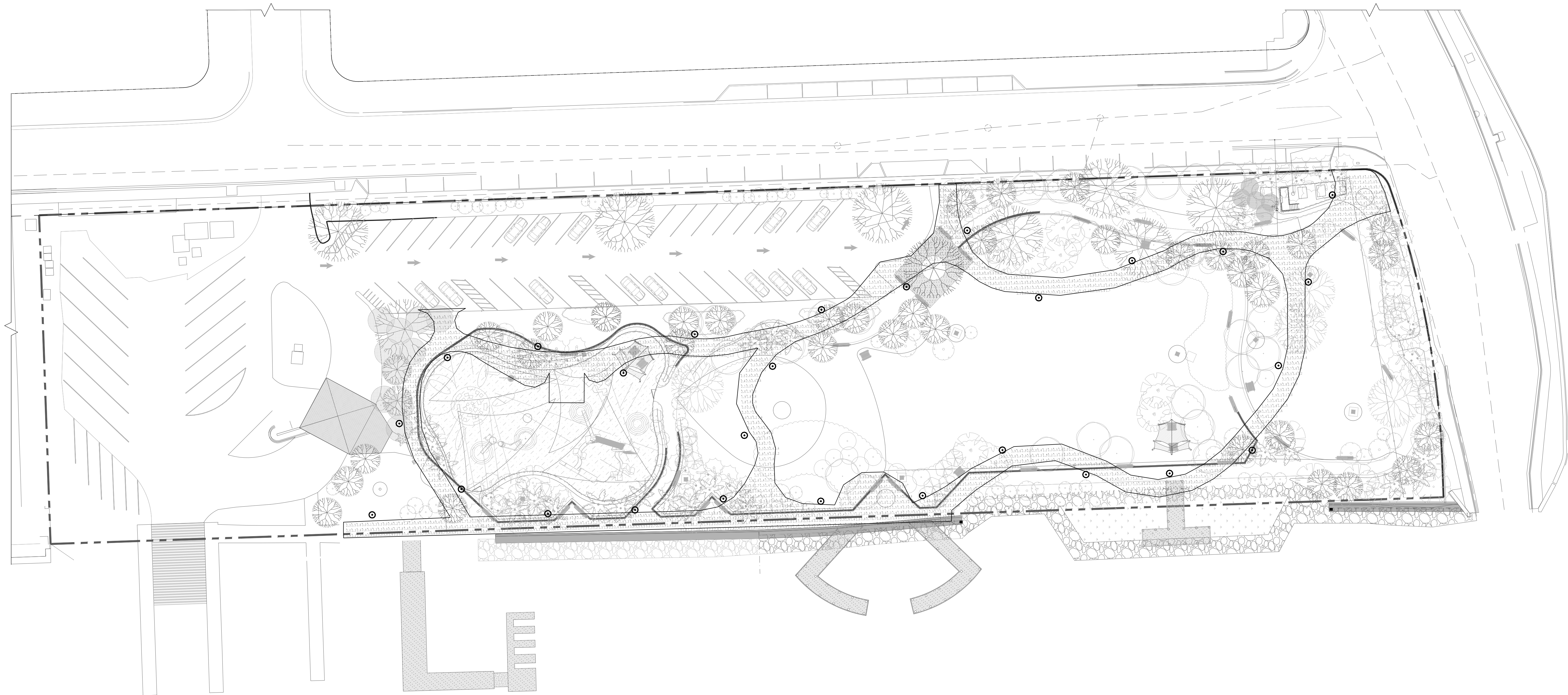
MAURICE GIBB MEMORIAL
SCALE: 1/4" = 1'-0"



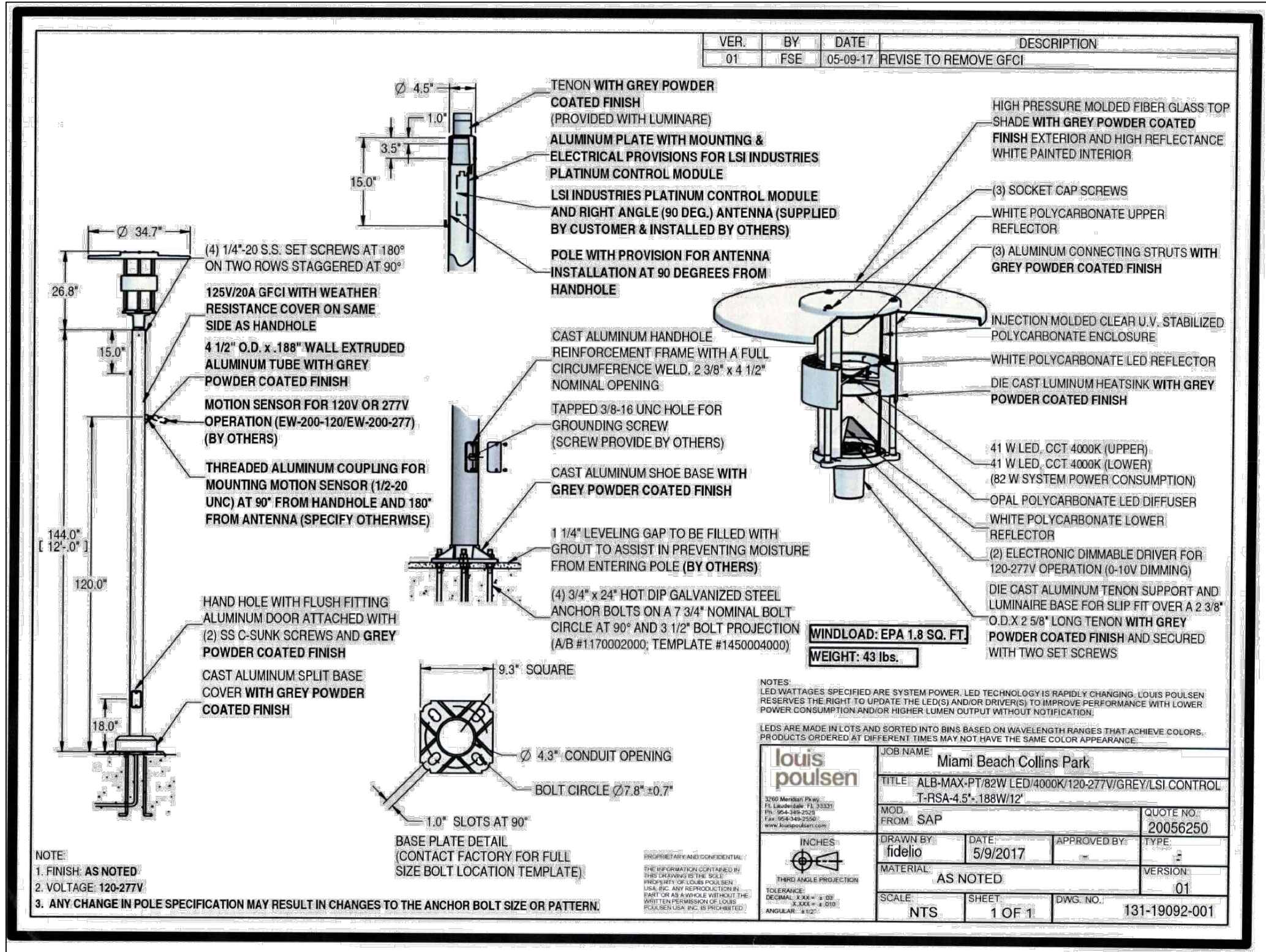
SHADE STRUCTURE NO.1
SCALE: 1/4" = 1'-0"



SHADE STRUCTURE NO.2
SCALE: 1/4" = 1'-0"



 **PHOTOMETRICS SITE PLAN**
SCALE: 1" = 30'-0"



LIGHTING FIXTURE A
NT.S.

TARGETTI
DART Medium
Adjustable Professional Projector Flood Light

Concept: Small footprint adjustable LED projector.
Housing: Die-cast aluminum body and joints for maximum heat dissipation.
Materials: Die-cast aluminum housing powder coated in Ferrite Grey Color.
Optics: NSP use high efficiency LED Emitter. SP, FL, MWFL, WFL, ASYM use high efficiency LED Chip on Board. Different optical systems depending on beam angles. Equipped with lensletic lenses for the NSP version, with a hybrid optic system for the SP and FL versions or convex faceted precision optics in high specularly anodized aluminum for the MWFL and WFL versions. ASYM version with high luminous efficiency pure aluminum reflector.
Mounting: Adjustable up to 45° on the horizontal plane and 45°/45° on the vertical plane with aim locking set screw. Can be installed directly to mounting surface.
Installation: Pre-cabled with 10' SJOOW 18-3 cable (second 18-2 direct burial cable for 0-10V dimmable version).
Finish: Ferrite Grey
Driver: Non-Dimmable or 0-10V Dimmable
Wattage: 19W (NSP), 38W (SP, FL, MWFL, WFL, or ASYM)
Color Temperature: 3000°K / 4000°K
Lumen Maintenance: (L70) >50,000hrs
Calculation for LED fixtures are based on measurements that comply with IES LM-80.
CRI: 84
Voltage: Universal Voltage 120-277V AC 50/60Hz
IK Rating: IK10
IP Rating: IP65
Certifications: cULus Wet Location Listed E488257
Tested in accordance with LM-79-08
* Title 24 commercial installation compliant.
Warranty: 5 year limited warranty.

PRODUCT CODE	DRIVER	OPTICS*	WATTAGE	COLOR TEMP
DAM - Dart Medium	ND - Non-dimmable electronic	NS - Narrow Spot 10°	L1 - 19W	30 - 3000K
	10 - 0-10V Dimming	SP - Spot 13°	L2 - 38W	40 - 4000K
		FL - Flood 33°		
		MP - Medium Wide Flood 48°		
		WF - Wide Flood 62°		
		AS - Asymmetric		

Lumens: Narrow Spot 10° = 1024lm 100lm
Spot 13° = 2344lm 2423lm
Flood 33° = 2158lm 2250lm
Medium Wide Flood 48° = 3396lm 3508lm
Wide Flood 62° = 3412lm 3524lm
Asymmetric = 2882lm 2977lm

Views: Front view showing dimensions 5.30", 5.80", 5.00", 6.00", 7.50". Side view showing dimensions 5.30", 5.80", 5.00", 6.00", 7.50".

LIGHTING FIXTURE B
NT.S.

FLINDT-B / 43.3 IN / 14W LED/3000K / 120-277V/60HZ / Nat paint alu / POST W/BASE PLATE / DIM 0-10V / 10000126945

A slim post with a cut-out to make a light opening and to create a light reflecting part. The lamps are hid in the top of the cut-out. Two horizontal connection lines underlines the three parts of the bollard. A facet increases the visibility of the connection lines. Easy mounting done by connector and because open access to terminals -- no mounting through a door.

Driver position: In the top
Top section housing driver and LEDs use quick-disconnect plug for easy servicing.
Terminal block position: In reflector section.
Looping: Approved, max. 5x6mm².
IP68 (water-tight) glands seal mid-section for pass-through wire connection.
Base plate dimension: 11" diameter. Base plate: Mounted to a concrete base with 4 anchor bolts.
Direct burial mounting with minimum 24.2" below ground depth.
In ground struts: Yes.

Light description
The fixture provides a non-glaring wide characteristic asymmetrical and functional illumination. The design of the cut-out creates a reflector part which is gradually illuminated to emphasize the depth in the fixture. The cut-out and the reflector provides an wing-shaped pattern on the ground.
A white highly reflective material around the LEDs ensures a wide light and a high efficacy.
The reflector part can be adjusted ±10° after installation for fine tuning of the light direction.
LED technology with more options of standard CCTs.
Electronic dimmable driver.

Design to Shape Light

LIGHTING FIXTURE C
NT.S.

INGROUND260
round trim above the ground

Arcluce Code **O-IG7124US-30S**
Code Ref. **0779000D+840+30US**

TECHNICAL INFORMATION
Light source: LED, 4000K, 12W, 1800lm, CRI>80
Light efficiency: 93lm/W
Power luminaire: 15W, 1400lm
LED life time: > 50000h - L80 - B20 (Ta 25°C)
High colour consistency: < 3 SDCM
Wiring: 120-277V 60Hz 0-10V
Optic: flood 38°
Color: Stainless Steel - 30
Weight: 15.43 lb
Size: A: Ø 10" 13/16
B: 16" 3/8

IP67
IK10
11000

Appliance
- AISI 316L stainless steel body.
- Die-cast aluminum body (EN 47100).
- AISI 316L stainless steel counter-ring.
- Double layer polyester powder paint resistant to corrosion and salt spray fog.
- Silicone rubber gaskets.
- AISI 316 stainless steel external screws.
- PMMA lenses for LEDs.
- Reflector made of 99.95 anodized aluminium with satin or non-iridescent specular finishing.
- Screen made of 19/32" thermal-shock resistant tempered glass.
- 11000-13200lb static load capacity.
- Can be driven over at maximum speed 12 mph.

Installation
- Recessed installation.
- Double PG16 cable gland for through wiring.
- Supplied with recessed installation box.
- Supplied with power cable (2' 3" 9/16").
- Recessed installation box made of engineering plastic.
- FIXTURES WITH STAINLESS STEEL TRIM ARE SUGGESTED FOR WALK-OVER OR DRIVE-OVER APPLICATIONS.
- UPON REQUEST FIXTURES CAN BE SUPPLIED WITH ANTI-SLIP GLASS.

LIGHTING FIXTURE D
NT.S.

