### GENERAL REQUIREMENTS:

 COORDINATE WITH THE LOCAL ELECTRIC UTILITY COMPANY TO VERIFY THE EXACT REQUIREMENTS AND REGULATIONS FOR THE TRANSFORMER AND ALL CORRESPONDING EQUIPMENT.

HESE NUMBERS INDICATE THE APPROXIMATE FOOT CANDLE LEVELS IN VARIOUS

LOCATIONS THROUGHOUT THE SITE. THE VALUES ARE TAKEN AT GROUND LEVEL

- THE LIGHTER NUMBER ON THE BOTTOM INDICATES MAINTAINED VALUES (.81 LLF

MAIN PBX ROOM - 2nd FLOOR

AND DO NOT TAKE INTO ACCOUNT ANY OBSTRUCTIONS

- THE DARKER NUMBER ON TOP INDICATES INITIAL VALUES

- THE CUSTOMER SHALL INSTALL, OWN, AND MAINTAIN A CONCRETE TRANSFORMER PAD WHENEVER THE UNDERGROUND
- SERVICE REQUIRES A THREE PHASE TRANSFORMER PAD. ALL CONDUITS SHALL ENTER THROUGH THE WINDOW OPENING PROVIDED IN THE PAD FOUNDATION. THESE CONDUITS

SHALL BE CUT OFF SO THE TOP OF THE CONDUIT IS FLUSH WITH THE SURFACE OF THE CONCRETE PAD.

- ALL METALLIC CONDUITS SHALL BE FITTED WITH AN INSULATING BUSHING.
- THE TOP OF THE PAD SHALL BE LEVEL AND ALL EDGES AND CORNERS ROUNDED OFF

#### STRENGTH REQUIREMENTS

MINIMUM SOIL BEARING CAPACITY OF 2000 lb/sq. ft.

GENERAL TRANSFORMER NOTES

- CONCRETE MIX SHALL HAVE A MINIMUM STRENGTH OF 3500 lb/sq. in. AFTER 28 DAYS. MAXIMUM AGGREGRATE 3/4".
- MINIMUM CONCRETE COVER OVER REINFORCING STEEL 2" UNLESS OTHERWISE NOTED.
- REINFORCING STEEL ASTM-AG I 5 GRADE GO PLACED APPROXIMATELY 6" O.C. EACH DIRECTION AND SECURELY TIED TOGETHER.

#### CLEARANCE REQUIREMENTS

- CONCRETE PADS SHALL BE INSTALLED NO LESS THAN 20 FEET FROM DOORS, COMBUSTIBLE MATERIALS, OR WINDOWS WHICH CAN BE OPENED AND NO LESS THAN TO FEET FROM PERMANENT (NON-OPENING) WINDOWS.
- A MINIMUM DISTANCE OF 3' IS REQUIRED BETWEEN CONCRETE PADS AND NON-COMBUSTIBLE WALLS (MIN. 2 HR FIRE
- A MINIMUM OF 3' OF WORKING SPACE MUST BE MAINTAINED FROM EACH SIDE OF THE TRANSFORMER AND A MINIMUM OF 10' MUST BE MAINTAINED ON THE FRONT (DOOR SIDE) OF THE TRANSFORMER. THIS IS TO ALLOW FOR COOLING,
- WHEN THE PAD IS LOCATED NEAR A TRAFFIC AREA, 8" STEEL POSTS FILLED WITH CONCRETE MUST BE PLACED AT CORNERS OF PAD FOR PROTECTION.

#### SECONDARY REQUIREMENTS

- CONDUITS FOR THE SECONDARY CABLE SHALL BE PLACED ON THE RIGHT SIDE NEAR THE FRONT OF THE CABLE OPENING TO ACCOMMODATE SECONDARY CABLE TERMINATIONS AND PROVIDE ADEQUATE CLEARANCE FOR THE TRANSFORMER OIL DRAIN VALVES. THE NUMBER OF CONDUITS SHALL BE PLACED AS SHOWN ON THE DAKOTA ELECTRIC DIAGRAM.
- THE LARGEST SECONDARY SIZE CONDUCTOR SHALL BE 750 kcmil.
- A MAXIMUM OF 6 CONDUITS MAY BE USED FOR INSTALLATIONS OF LESS THAN 500 kVA
- A MAXIMUM OF 8 CONDUITS MAY BE USED FOR INSTALLATIONS OF 500kVA TO 2000 kVA

#### LIGHTING CONTROL NOTE

• ALL EXTERIOR LIGHTING TO BE FED THROUGH A LTHE LIGHTING CONTROLLER AND CONTROLLED VIA PHOTOCONTROL, ALLOWING THE LIGHTING TO AUTOMATICALLY SWITCH ON AND OFF AS NEEDED. THE LIGHTING CONTROLLER IS LOCATED IN THE MAIN ELECTRICAL ROOM (1 | 9) LOCATED ON THE 1st FLOOR. THE PHOTOCELL IS TO BE LOCATED IN A EASILY ACCESSIBLE LOCATION THAT DOES NOT DETRACT FROM ANY ARCHITECTURAL DETAILING. FOR BEST RESULTS, IT SHOULD BE PLACED ON THE NORTHEAST FACE OF THE BUILDING.

## SHEET NOTES

T. RUN I" CONDUIT WITH PULL STRING TO THESE AREAS FOR EXTERIOR SIGNAGE, VERIFY EXACT LOCATION # REQUIREMENTS WITH SIGN MANUFACTURER. ALL CIRCUITS FEEDING THE SIGNS REQUIRE A DISCONNECT SWITCH PREFERABLY WITHIN' SIGHT OF THE SIGN THAT THEY ARE SERVING. WHERE THE DISCONNECTING MEANS IS OUT OF THE LINE OF SIGHT FROM ANY SECTION THAT IS ABLE TO BE ENERGIZED, THE DISCONNECTING MEANS SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. VERIFY THE EXACT ELECTRICAL REQUIREMENTS OF ALL SIGNAGE PRIOR TO BEGINNING INSTALLATION.

# 2.> PROVIDE (3) SEPARATE 4" CONDUITS FOR BUILDING SERVICES:

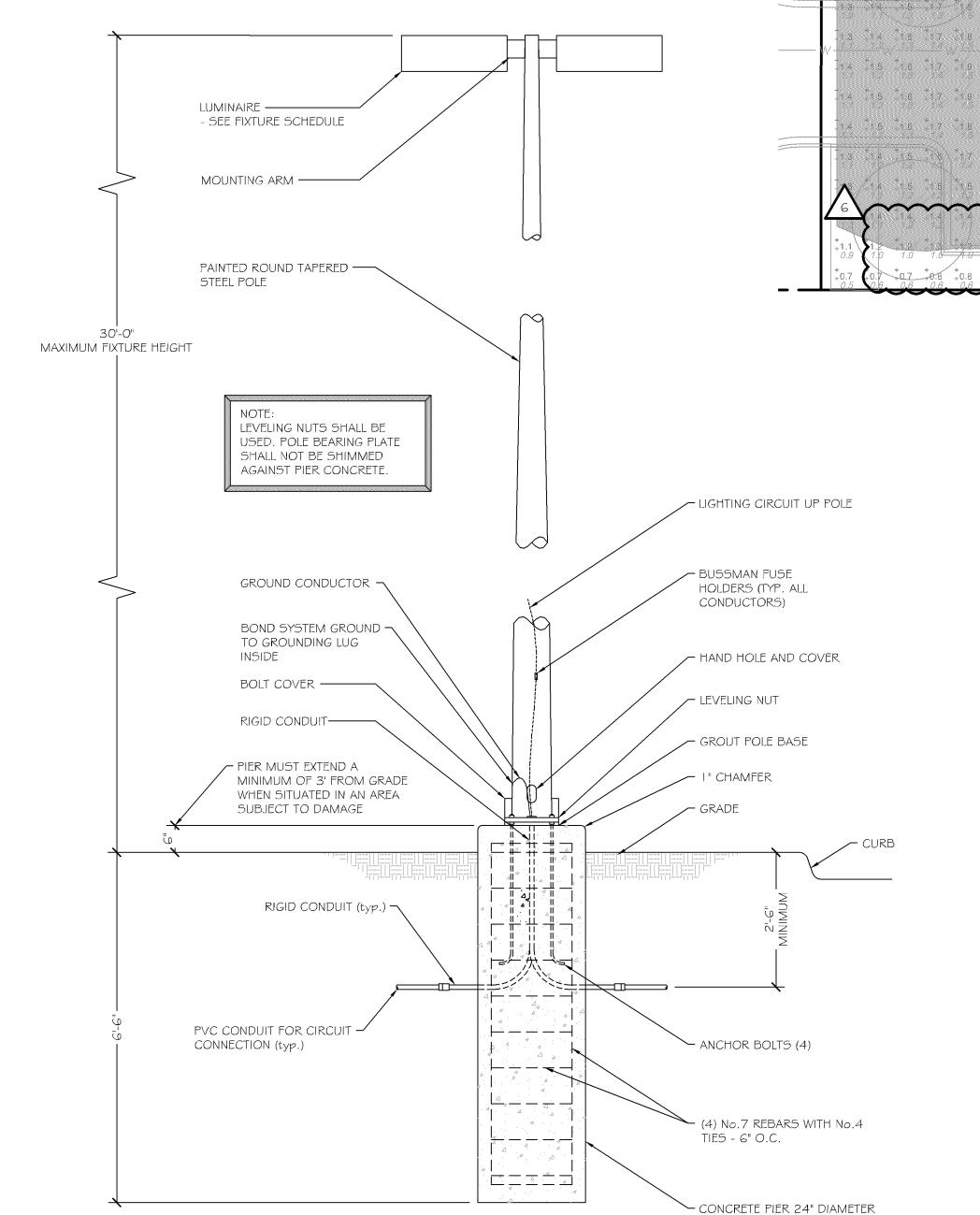
(I) TELEPHONE / INTERNET, (I) CATV, (I) SPARE VERIFY EXACT SIZE(S) AND SOURCE LOCATIONS WITH LOCAL PROVIDERS - TERMINATE CONDUITS IN THE MAIN PBX ROOM (204B) LOCATED ON THE 2nd FLOOR

3. UTILITY TRANSFORMER SHOWN AT A PROPOSED LOCATION (THE EXACT LOCATION OF THE TRANSFORMER IS DICTATED BY THE LOCAL UTILITY COMPANY). ALL UNDERGROUND SECONDARY CONDUCTOR INSTALLATION SHALL COMPLY IN FULL WITH THE NEC. REFER TO ARTICLE 230.6 PRIOR TO BEGINNING INSTALLATION WHEN CONDUCTORS ARE CONSIDERED OUTSIDE OF THE BUILDING. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS, FOR EXAMPLE, CONDUIT BODIES AND BOXES. BOXES AND CONDUIT BODIES USED AS PULL OR JUNCTION BOXES SHALL COMPLY WITH ARTICLE 314.28 OF THE NEC.

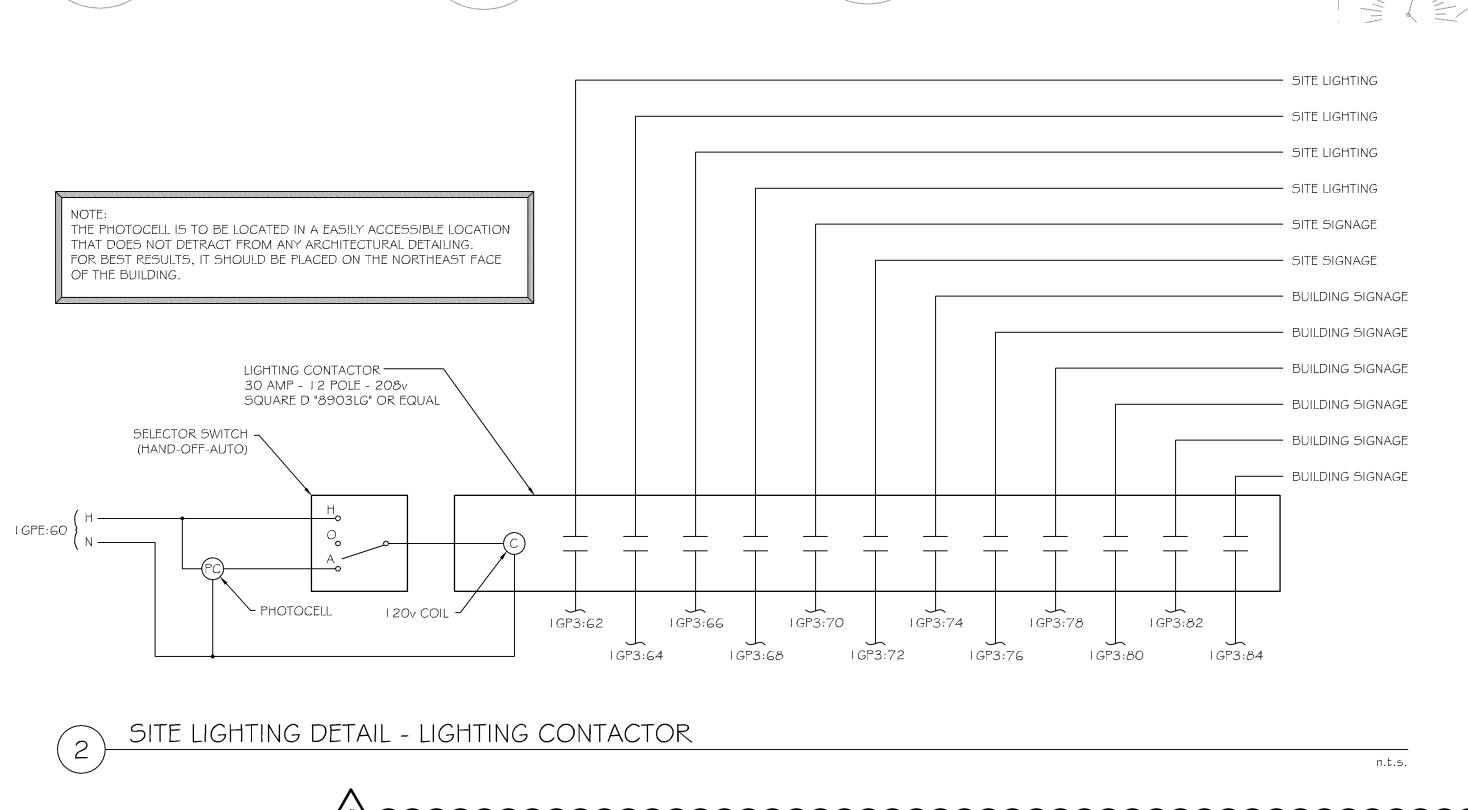
### 4. CT CABINET / METER. VERIFY INSTALLATION REQUIREMENTS WITH LOCAL UTILITY COMPANY.

5. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF BOX.

6. EMERGENCY GENERATOR - REFER TO PLANS / SPECIFICATIONS FOR REQUIREMENTS. 7. ALL BUILDING MOUNT EXTERIOR EGRESS LIGHTING SHALL BE CONNECTED TO THE NEAREST INTERIOR EMERGENCY LIGHTING CIRCUIT, AHEAD OF THE SWITCH LAG



SITE LIGHTING DETAIL - PARKING LOT POLE MOUNT



UTILITY TRANSFORMER (3)

- VERIFY CLEARANCE REQUIREMENT W/UTILITY

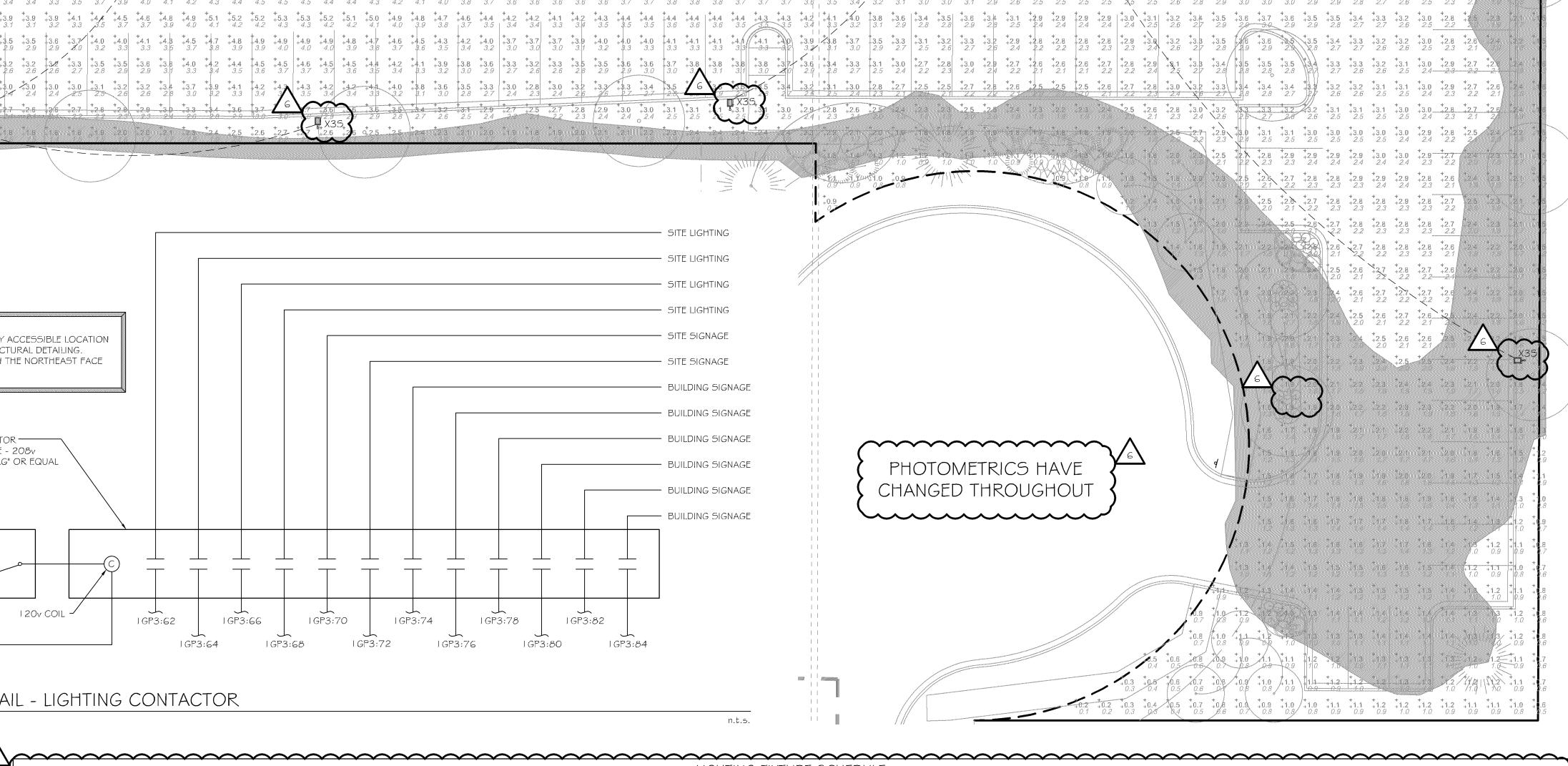
- 208/120v SECONDARY

HE BOLD LINE INDICATES THE

PROPERTY BOUNDRY

MAIN ELECTRICAL ROOM

- Ist FLOOR



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103 Fifteenth Ave NW, Willmar, MN 56201

Phone: 320-235-7775 Fax: 320-235-8673

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42202 Registration Numbe

6 09/28/17 ADDENDUM #6 <u>\$ 09/07/17 ADDENDUM #5</u> 3 08/02/17 ADDENDUM #3

MARK DATE DESCRIPTION DATE | 2017-06-07 ISSUE PERMITTING PHASE: PROJECT TITLE

HOLIDAY INN EXPRESS \$ SUITES

171 UNITS PROJECT OWNER: HAWKEYE HOTELS

PROJECT LOCATION: BLOOMINGTON, MN

SHEET TITLE:

ELECTRICAL SITE PLAN

17" x 22" - 1" = 30' 34" x 44" - 1" = 15' 33476

LIGHTING FIXTURE SCHEDULE LAMPING TAG MANUFACTURER CATALOG NUMBER DESCRIPTION VOLTAGE MOUNTING FINISH WATTS CONTROL EMERGENCY BATTERY OPTION (ELCW) LED AREA LIGHT (TYPE III DISTRIBUTION) ITHONIA #WST2 LED SERIES 120V LED (4,000K) WALL - SURFACE PHOTOCONTROL EVO SERIES - 2200 LUMEN LED DOWNLIGHT (WET LOCATION TRIM) 120V CEILING - RECESSED LED (4,000K) 20 CONTACTOR HALLMARK FIXTURE SUPPLIED BY OWNER BUILDING HIGHLIGHT - VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS LED SPOT LIGHT (UPLIGHTING) 120V WALL - SURFACE CONTACTOR HALLMARK FIXTURE SUPPLIED BY OWNER COLUMN - SURFACE 13 CONTACTOR MAIN ENTRANCE - COVERED WITH HOLIDAY INN SHROUD LED SPOT LIGHT (DOWNLIGHTING) 120V LED 6.5081-UNV-(4 NARROW BEAM) ARCHITECTURAL ACCENT LIGHT 120V WALL - SURFACE CONTACTOR BUILDING ACCENT - VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS C5X2 LED2 700 40K T3M 208 LED (4,000K) 268 XTERIOR PARKING AREA (TYPE III DISTRIBUTION) - 103.5 LUMENS PER WATT LITHONIA LED AREA LIGHT POLE - 30'-0" a.f.f. CONTACTOR 208 X35 | LITHONIA CSX2 LED2 700 40K T3M HS | LED AREA LIGHT w/HOUSE SHIELD LED (4,000K) POLE - 30'-0" a.f.f. 268 | CONTACTOR XTERIOR PARKING AREA (TYPE III DISTRIBUTION) - 103.5 LUMENS PER WATT