



SPECTRUM
ENGINEERS

ADDENDUM #1

Project: Orchard Cove Renovation
Project No: 20170714

From: Peter Johansen
Date: May 15, 2018

DISCIPLINES

Mechanical Engineering
Electrical Engineering
Technology Design
Acoustical Engineering
Lighting Design
Theatre Design
Fire Protection Engineering
Building Commissioning

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QUESTIONS

1. Electrical: On plan page EP403 #3 enlarged plan for the med gas storage shed, it calls out a type SA-1 fixture that is not noted on the fixture schedule. Please clarify.

Fixture type SA-1 has been added to the schedule.

2. Electrical: Sheet EL401 sheet note 1. Please show diagram on how this interconnects with the nurse call pillow speaker.

The exact wiring connections depend on the PE-1 fixture submitted (equivalent fixtures to failsafe fixture will be accepted), and the nurse call manufacturer. The PE-1 fixture is specified to have the low-voltage controller which will connect to the nurse call pillow speaker. Please also note that a the nurse call also has to connect to the television. Most likely the contractor will run pair of #18 CU wire between the pillow speaker wall connections and the television receptacle (depending on the nurse call system).

3. Electrical: Are dimmers line voltage dimmers? Is there 0-10 volt dimming on type DX and PE-1 fixtures.

The dimming switches for the DX can lights will be line voltage (0-10 volt dimming). The dimming switch for the PE-1 ambient light will be low voltage (momentary switch with dimming).

4. Electrical: Sheets EP401 & EP402 are receptacles that are lightly shaded grey. Are they staying or being demoed? Sheet AE-502 the elevations show only 3 receptacles by the headwall. Please clarify.

The slightly shaded grey receptacle are existing receptacles to remain.

5. Electrical: Plan page EP602 (plan page bottom right) shows a circuit out of EQDP going to the "VFD CONTROL PANEL." I've noticed them located near the AH's in the past but that was not on a exterior application. Please advise location.

The VFD control panel will be located inside the AH-1 enclosure.

6. In addition to the wireless telemetry and the electrical outlet we have provided for the telemetry equipment, the owner would now like to include hardwiring for telemetry at each bed as well. Can you provide me a list of all additional electrical /data infrastructure we will need to add to the drawings later so that I can make sure the contractors add that cost into their bid this week?



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Provide a single gang j-box at each patient bed headwall adjacent to the new emergency receptacle at 60" AFF for hard wire telemetry. Run a 3/4" conduit from this j-box above ceiling to the hallway (above ceiling). The owner will hire a structural cabling contractor to pull the monitoring data cabling and terminate the cables in the j-box at each patient bed.

7. For the existing generator, page EP601 indicates the removal of the feeders only. Will the electrical contractor be required to refeed the new generator or will this be done by the owner.

Sheet EP601 shows the existing generator being demolished, the contractor will be responsible for removing the existing generator. Sheet EP602 shows new feeders being pulled from the new generator to the transfer switches. The contractor will be responsible for the installation of the new generators and pulling feeder from the generator to the transfer switches.

8. EP601 also shows the removal of ATS #1 the installing EQDP in its place. Page EP11 shows EQDP being installed in a different room in the basement. Also the new one-line diagram on page EP602 has the ATS #1 being reused. What needs to be done with ATS #1?

ATS #1 shall remain in its current location. The existing feeder from the existing generator shall be removed and ATS#1 shall be re-fed as shown on sheet EP602. EQDP will be installed in the location shown on sheet EP100.

SPECIFICATIONS

263213 – Engine Generators

1. Added Kohler as an approved manufacturer

DRAWINGS

EC601 (See attached sheet)

1. Changed the rough-in requirements for the patient stations to a 3-gang deep box.

EL601 (See attached sheet)

1. Added fixture type SA-2.
2. The following are approved substitutions:

Type	MFG	Part
DX-4	Halo	PD615D010B PDM6B835 64VDFWC (HALO, PDS)



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Type	MFG	Part
DX2	Gotham Lighting	EVO 35/20 4AR MWD LSS MVOLT GZ1
DX4	Gotham Lighting	EVO 35/15 6DFR MVOLT GZ1
E	Lithonia Lighting	PS1050 FIK
GF3	Focal Point	FEQ2 24 AC 5500L 35K 1C UNV L11 G WH A (CENTER LENS RAILS TO INCLUDE THIS FINISH AS WELL)
OJ1	Healthcare Lighting	HNL610 MVOLT LEDAMB TR AM
PE1	Healthcare Lighting	HPW348 120 LED35 1U1D LV AM
OC32	Lithonia Lighting	WST LED P3 40K VW MVOLT E7WC DNAXD
UC5	Item Note: Providing natural aluminum finish-Advise if different. Healthcare Lighting	HUC523 MVOLT LED35 S1 AM

Type	MFG	Part
DX-2	Vantage Luminaires	A4VEFLED-U-20-40K-L401-1-SCL
DX-4	Vantage Luminaires	A6VOFLED-U-15-40K-M6060-SCL
E	EXITRONIX	XEB-14-LM
GF-3	DAY-O-LITE	HML-A-D-SI-40-VHO(5400)-O-G-AMW- DIM10
OJ-1	Twice Bright Lighting Co. Ltd.	SW1202-4K-S-WH
PE-1	DAY-O-LITE	MEDL-PL-DI-SI-40-LO-4-WM-AMW-U- DIM10-LVC
OC-32	Deco Lighting	D444-LED-40-40-UNV-T3-SCBA
UC-5	Organic Lighting Systems	011732/010710-010800-010890

Type	MFG	Part
DX4	Prescolite	LF6SL-6LFSL15L35KWNCTDL
GF3E	Columbia Lighting	RLA24-35HLG-EDU-ANTIMICROBIAL PAINT
OJ1	HUBBELL HEALTHCARE	NW*-2-WH
PE1E	HUBBELL HEALTHCARE	RBL-4-8-35K-SCBA-U-LVC1

LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT. HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
DX		LED DOWNLIGHT; THERMALLY PROTECTED HOUSING; TO ACCOMMODATE MULTIPLE TRIMS AND REFLECTOR ASSEMBLIES LOW IRIDESCENT REFLECTOR FINISH (EVEN IF NOT SHOWN IN CATALOG #); SELF FLANGING TRIM UNLESS NOTED.						
DX-2		RECESSED DOWNLIGHT; VERTICAL, 2,000 LUMENS EXTERIOR 4" 3500K DAMP LOCATION	2000 LU	24W	UNV	KIRLIN LIGHTOLIER PRESCOLITE GOTHAM EDISON PRICE	L4FLED 120 4LFLED7 40K WT ALED 40 25 4AR 120 LED FTD DL/5 2500 4000 120 COL	
DX-4		RECESSED DOWNLIGHT; LED 6" SHOWER LIGHT 3500K	1250 L	27W	UNV	LITTHONIA PORTFOLIO HALO FOCAL POINT ATLANTIC GOTHAM LIGHTOLIER	LDN6 35/20 L06AR LSS MVOLT EZ10 LD620D010 ERM6835H20 6LM1LI HB26 ML5612840 FL60 20 LED L40 277 R0-T L6 RO-DN-CD-WP LED6OP DLM1300 40K 2 6LED10 CL EVO 41/14 6DFR MVOLT P6RD15N210UVB W/P6RD835VB W/P6RDD	
E		E PREFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY BATTERY PACK TO PROVIDE POWER LED LAMPS, TO PROVIDE 90 MINUTES OF EMERGENCY POWER TO FIXTURE. MINIMUM LIGHT OUTPUT FOR TYPICAL 4' LAMP SHALL BE 1100 LUMENS OR HIGHER; UNIVERSAL TRANSFORMER FOR 120 OR 277 VOLTS; LOW VOLTAGE PROTECTION, COMBINATION TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO-RATA WARRANTY; INSTALL TEST SWITCH IN A MANNER THAT REQUIRES NO DISASSEMBLY FOR TESTING.						
E		EMERGENCY BATTERY PACK. self testing ballasts		3W	120/277V	DUAL-LITE BODINE LITTHONIA EMERGI LITE EVENLINT	UFO 6WI REDITEST PS1400QD SD FPDLU BAL1400	
GF		TROFFERS: RECESSED FOR FLANGE MOUNTED CEILING; STATIC; HINGED AND LATCHED STEEL DOOR; 125 ACRYLIC PRISMATIC LENS, MINIMUM 1/8"; PRORAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS. MAX 5" DEEP. SPECIFICATION GRADE.						
GF-3		2X4, 2-LAMP; ACRYLIC SATINE CENTER ANTI MICROBIAL, SHIEL CENTER SLOT LENS AND HOUSING; MATTE SATIN WHITE FINISH. DIMMABLE 0 - 10 VOLT 5,400 LUMMENS	LED 3500k	41W	120/277V	FAIL SAFE	EN C 24 4 LED 54 CA08 CA125 UNV EDD1	
OJ		RECESSED NIGHT LIGHT						
OJ-1		LED NIGHTLIGHT; RECESSED 2.5" x 3" AMBER PAINTED GLOSS WHITE, CLEAR HIGH IMPACT ACRYLIC LENS, TORX HEAD WITH CENTER PIN FASTENERS	LED	5W	120V	Fail Safe KENNALL HEALTH CARE CHLORIDE PATHFINDER	MSN UNV W	
PE-1		PATIENT BED LIGHT LOW PROFILE WALL MOUNT W/ READING AMBIENT LIGHTING CONTROL VIA PILLOW SPEAKER	LED 3500 LUM	50W	120V	FAIL SAFE	MPBL 4 LD4 120 1 STD 1 LO 35 EDD 2 LVDP	
OC		WALL PACK; ADJUSTABLE CUT OFF; FULL PERIMETER GASKETING; WET LOCATION; STAINLESS STEEL HINGES AND LATCHES; PROJECTING LENS; HPF BALLAST; SEE ELEVATION FOR MOUNTING HEIGHT, COLOR AS SPECIFIED BY ARCHITECT.						
OC-32		LED, RECESSED J BOX, DECORATIVE, WITH BATTERY IN FIXTURE SCHEDULE. NATURAL	LED 4K	52W	120V	LITTHONIA McGraw VISIONAIRE ELCOST	WST 1 10A700/40K SR3 MVOLT IST C02 LED E1 BL3 CBA MLB-2-TX-48L-3-4K-UNV-WM-SCBA-EBPL H70 LED 120/277 SCBA ST EFL	
SA		GENERAL PURPOSE INDUSTRIAL WHITE ENAMEL, APERTURED REFLECTOR; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE; UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS; STEM MOUNTED						
SA-1		4' LED STRIP LIGHT 4400 LUMENTS	LED 3500K	60W	120/277V	DAY BRITE METALUX COLUMBIA LITTHONIA	LF 4 EZ 38 40 U LAG SNLED LD1 44 UNV LW L840 CDA U LCS4, EU ZL1N L49 500LM FST MVOLT 40K 80 CRI WH	
UC		LED UNDER CABINET LIGHT; LOW PROFILE, 1 1/4" HIGH X 1 1/4" DEEP X LENGTH AS NOTED; EXTRUDED ALUMINUM BODY; EXTRUDED CLEAR, POLYCARBONATE LENS; INTERNAL LED DRIVER; EFFICACY GREATER THAN 40 LUMENS PER WATT; 50,000 HOUR RATED LAMP LIFE; 2700 - 3000 DEG KELVIN COLOR TEMPERATURE, WIRING COMPARTMENT; FLUSH END. CONNECTORS FOR ROW INSTALLATION (CONNECTORS ARE NOT INCLUDED IN THE FIXTURE SCHEDULE CATALOG NUMBERS - CONNECTOR CONFIGURATION TO BE FIELD DETERMINED BY CONTRACTOR PRIOR TO PURCHASE).						
UC-5		28" OVERALL LENGTH; 9 EA-1 W LED. WHITE.	LED	12W	120 v	ALKCO KENALL HLTH CR LIGHT HLTH CR LIGHT WAC	LINCS100-L28-120-WHG AUCSD-4IS-MW-29.5-120-18W/LED-MOD3000K HUCS 23 120 LED30 S1 AM HUCS 23 120 LED35 BA LED6_BA LED2	

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Orchard Cove Renovation

485 E 500 S
Bountiful, UT 84010

No.	Date	Description
1	05/15/18	Addendum #1

ISSUE DATE: 2018.04.20
OWNER PROJECT NO: .
CONTRACT NO: .
DRAWN BY:
CHECKED BY: PEJ
DESIGNED BY: PEJ
EWG PROJECT NO: 2017.60
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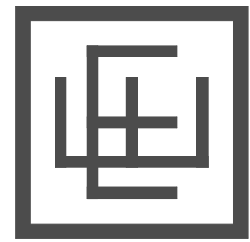
SHEET TITLE

LIGHTING FIXTURE
SCHEDULE

EL601

SHEET OF

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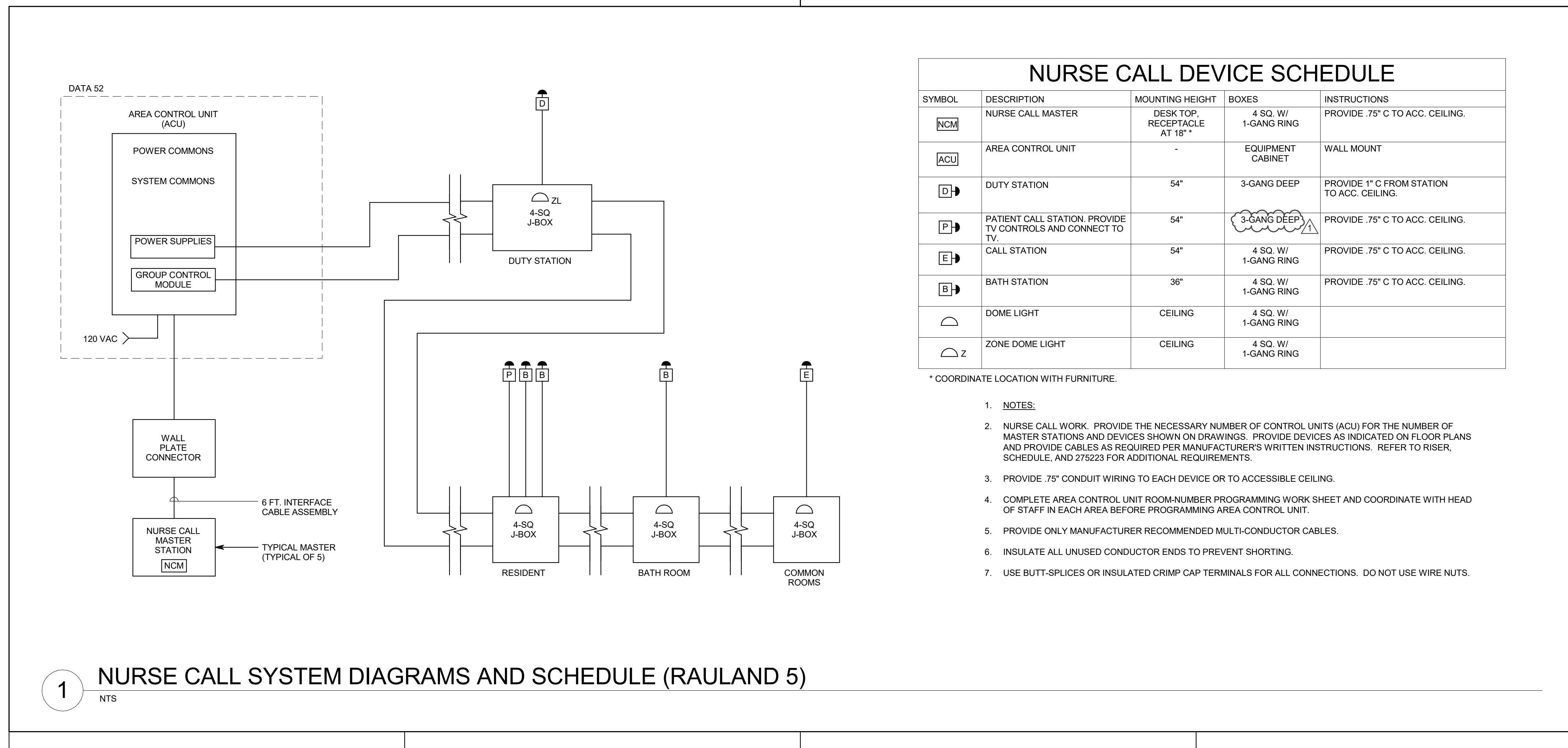
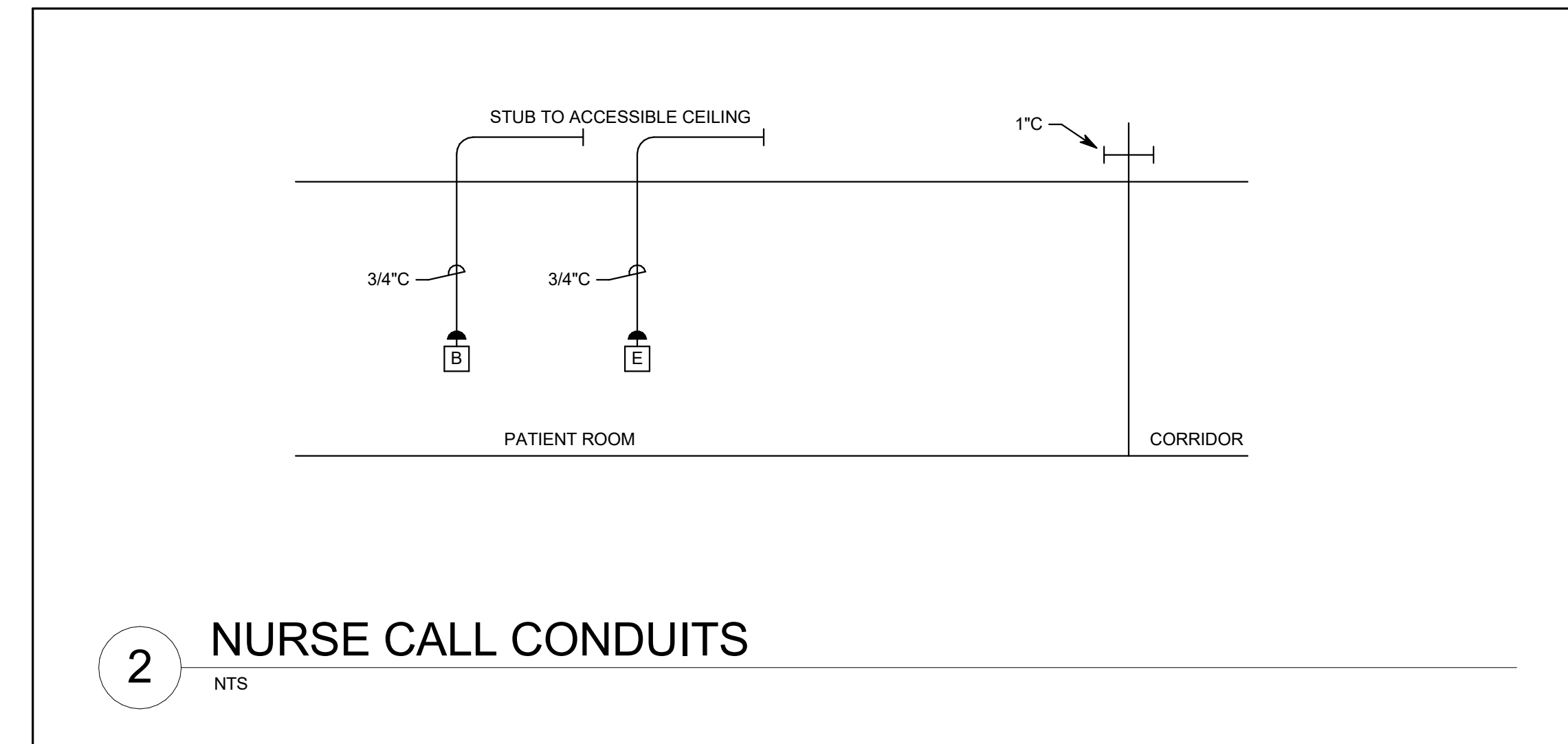
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SHEET TITLE

SYSTEMS DIAGRAMS

EC601

SHEET OF



NURSE CALL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BOXES	INSTRUCTIONS
NCM	NURSE CALL MASTER	DESK TOP, RECEPTACLE AT 18"	4 SQ. W/ 1-GANG RING	PROVIDE .75" C TO ACC. CEILING.
ACU	AREA CONTROL UNIT	-	EQUIPMENT CABINET	WALL MOUNT
D	DUTY STATION	54"	3-GANG DEEP	PROVIDE 1" C FROM STATION TO ACC. CEILING.
P	PATIENT CALL STATION, PROVIDE TV CONTROLS AND CONNECT TO TV.	54"	3-GANG DEEP	PROVIDE .75" C TO ACC. CEILING.
E	CALL STATION	54"	4 SQ. W/ 1-GANG RING	PROVIDE .75" C TO ACC. CEILING.
B	BATH STATION	36"	4 SQ. W/ 1-GANG RING	PROVIDE .75" C TO ACC. CEILING.
∅	DOME LIGHT	CEILING	4 SQ. W/ 1-GANG RING	
∅z	ZONE DOME LIGHT	CEILING	4 SQ. W/ 1-GANG RING	

- * COORDINATE LOCATION WITH FURNITURE.
1. NOTES:
2. NURSE CALL WORK. PROVIDE THE NECESSARY NUMBER OF CONTROL UNITS (ACU) FOR THE NUMBER OF MASTER STATIONS AND DEVICES SHOWN ON DRAWINGS. PROVIDE DEVICES AS INDICATED ON FLOOR PLANS AND PROVIDE CABLES AS REQUIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO RISER, SCHEDULE, AND 275223 FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE .75" CONDUIT WIRING TO EACH DEVICE OR TO ACCESSIBLE CEILING.
4. COMPLETE AREA CONTROL UNIT ROOM-NUMBER PROGRAMMING WORK SHEET AND COORDINATE WITH HEAD OF STAFF IN EACH AREA BEFORE PROGRAMMING AREA CONTROL UNIT.
5. PROVIDE ONLY MANUFACTURER RECOMMENDED MULTI-CONDUCTOR CABLES.
6. INSULATE ALL UNUSED CONDUCTOR ENDS TO PREVENT SHORTING.
7. USE BUTT-SPLICES OR INSULATED CRIMP CAP TERMINALS FOR ALL CONNECTIONS. DO NOT USE WIRE NUTS.