

New Hanover County Department of Juvenile Justice

June 6, 2019

Project Name

CM Clarification #2

Date: June 6, 2019

Project: New Hanover County Department of Juvenile Justice

The following items modify, add to, or delete from the contract documents, plans, specifications, and bid manual dated May 2019, for this project. Acknowledge receipt of this CM Clarification in your proposal. Failure to do so may result in the disqualification of your bid. Wherein this Clarification varies or is in conflict with the Contract Documents, the requirements of this Clarification shall govern. In all other particulars, the requirements of the original Project Manual and Contract Documents, including any previous Addenda or Clarifications, shall govern.

This clarification consists of 18 items, 4 attachments, 7 sheets (8.5x11) and 4 sheets (24 x 36).

GENERAL INFORMATION and CLARIFICATION:

Item 1: The following subcontractors have been added to their respective fields as Prequalified Subcontractors to bid:

- i. Doyle Dickerson Terrazzo, Inc.: BP-09E – Terrazzo
- ii. Steel Technology, Inc.: BP-05A – Turnkey Steel

Item 2: In addendum #1, add to sheets revised (as these were issued in this addendum) S1.1.1, S2.1.1, S2.3.1, S4.1.1, S4.1.2, and S4.1.4

Item 3: Specification section 078413 and 078446; Remove section B. Installer Qualifications

Item 4: Specification section 099100 Painting; for detention cell doors and frames, and steel handrails in stairways, full epoxy paint is to be used in lieu of DTM.

Item 5: Specification section 126724 Courtroom bench seating; Imperial Woodworks, Sauder is an acceptable substitution

Item 6: Electrical; TR1, TR2, TR3, and TER1 are transformers as indicated on the one-line diagram on E5.1. E5.1 also has more information on these transformers.

Item 7: Concerning storefront and curtainwall window assemblies, some of the designations on the building elevations, A4.1, are incorrect. Please reference A3.1.2; the small window units, for example, are storefront (AS); the indicators on A3.1.2 override those on A4.1. Also, on 4-A4.1 the four, small window on this elevation are storefront. Door 246C should indicate FG.

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Item 8: For television brackets, the only monitors scheduled are in the courtrooms, as shown.

Item 9: Detention toilet accessories are to be provided under BP-08B Doors & Hardware, Detention equipment

Item 10: Project schedule; the project schedule will be issue after receipt of bids. The anticipated notice to proceed is 7/8/19 with a 17-month duration to substantial completion. Liquidated damages are \$500/day

Item 11: Specification section 230900; Controls service group representing Reliable Controls are an acceptable manufacturer

Item 12: Existing conditions; The finish floor elevation of the existing building is approx. 40.85' in the front section of the building and 41' in the rear section of the building. The top and invert elevations of the existing utilities will need to be field verified.

Item 13: The retaining wall shown on C3.0 is to be a segmental retaining wall and is incorporated into BP-31A Earthwork scope of work.

Item 14: The HVAC bid form has been revised to include the owner-preferred control alternate.

Item 15: BP-31A Earthwork; 2. B. Capillary fill (sand is acceptable) for the slab on grade shall be furnished only by the sitework subcontractor for BP 03A building concrete to install after completion of the plumbing and electrical under slab rough-in.

Item 16: Electrical; attached are revised sheets E1.0, E2.1.1, and E5.1 providing clarification on the emergency generator, sally port lights, and power one-line diagram

Item 17: ABC – Architectural building supply is an acceptable source for the specified detention equipment

Item 18: BP-31A Earthwork questions:

- i. Only utility cut permits will be required to be paid for under this bid package
- ii. CFPUA will provide the water meter; no charges apply for this under this bid package
- iii. Pedestrian control signage is part of BP-31A as indicated on C2.0
- iv. There is no construction entrance required, as we are using the paved lot next door.
- v. For the temporary water service, the office trailer indicated on the site logistics plan shall be connected to temp service. In addition, water to the site for construction activities such as masonry, etc. For estimating purposes, and as small as the site is, just have the service somewhere in the staging area (parking lot next door to the building).
- vi. Site concrete shall be 4" except for the driveway apron. Any equipment pads will be in addition to this

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- vii. Roof drainage shall be as indicated on the plans. If underground drainage is not shown for downspouts, they are to spill on grade.
- viii. Between the building and sidewalks, where nothing is shown, provide shredded bark mulch.
- ix. BP-31A is to include the bike racks; see the specifications for the bicycle racks
- x. The concrete washout will be set up by BP-31A Earthwork, maintained by BP-03A Concrete until this scope is complete, and then maintained and disposed of by BP-31A upon completion of site concrete.
- xi. Landscape maintenance will be by the owner
- xii. There is no irrigation on the project or in the scope
- xiii. NC-811 will locate all existing utilities; cost for private locate is not included in this scope
- xiv. Water line work should be open cut; the construction manager is carrying an allowance for street closures if it is required
- xv. The construction manager will coordinate with local utility providers to disconnect all associated utilities required prior to building demolition
- xvi. The sidewalks along 4th street, in front of the project site, should be priced to be removed and replaced as they will be damaged during construction.

END OF CM Clarification No.

FORM OF PROPOSAL

Project: New Hanover County New DJJ Facility
138 North 4th Street
Wilmington, NC 28401

Bids Submitted To: Bordeaux Construction Company, Inc. – Construction Manager

BID PACKAGE: **BP – 23A HVAC - REVISED**

BIDDER: _____

NC License #: _____

(License applies to BP 02 Surveying, BP 21A Fire Protection, BP 22A Plumbing, BP 23A HVAC, BP23A HVAC & Plumbing, BP 26A Electrical, BP-28A Security Electronics, or others as required by NC Statute)

Date: **June 12th, 2019**

Bid Time: **2:00pm**

The undersigned, as bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. The bidder further declares that he/she has examined the site of the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that bidder has satisfied themselves relative to the work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with Bordeaux Construction in the form of contract specified in the bid manual, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of:

Bid Package 00 – General Requirements

Bid Package 23A HVAC - REVISED

in full in complete accordance with the plans, specifications and contract documents, within the contract time as detailed in the New Hanover County New DJJ Facility – Bid Schedule, to the full and entire satisfaction of New Hanover County and Bordeaux Construction with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the contract documents.

Bid Package: **23A HVAC - REVISED**

BASE BID PRICE:

The Base Bid Price includes all Work required by and in strict accordance with the Bid Documents for this Project, for the Lump Sum of:

\$ _____ (Figures only).

ALTERNATES:

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" the base bid. Alternate price should include all cost of overhead, and profit. The Construction Manager and Owner expressly reserve the right to accept or reject any or all Alternate Prices in any sequence. Acceptance or rejection of alternates shall not change the contract duration nor relieve the Bidder of timely completion of work within the time periods indicated in the contract documents.

Alternate No. G-1 Provide add or deduct for owner-preferred HVAC controls by American Automatrix.

\$ _____ (Figures only).

UNIT PRICES

Unit prices quoted and accepted shall apply throughout the life of the contract, except as otherwise specifically noted. Unit prices shall be applied, as appropriate, to compute the total value of changes in the base bid quantity of the work all in accordance with the contract documents. The Construction Manager reserves the right to reject, negotiate, or accept all unit prices prior to contract award.

1. N/A

ALLOWANCES

1. N/A

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

Provide with the bid - Under GS 143-128.2(c) the undersigned bidder shall identify **on its bid** (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. **Also** list the good faith efforts (Affidavit **A**) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its own workforce may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

After the bid opening - The Construction Manager will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is equal to or more than the 10% goal established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

* OR *

If less than the 10% goal, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit **with their bid** the Identification of Minority Business Participation Form listing all MB contractors, vendors and suppliers that will be used. Affidavit **A** or Affidavit **B**, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

Proposal Signature Page

The bidder further proposes and agrees to commence work under this contract on a date to be specified by the Construction Manager at Risk, and shall pursue the scope of work included in his contract in accordance with the schedule prepared by the Construction Manager at Risk.

Respectfully submitted this,

_____, Day of _____, 2019
(Write the Date of the Month in Words) (Write the Name of the Current Month)

WITNESS:

(Witness Signs here if you are a Proprietorship or Partnership)

By: _____
(Printed Name of Person Signing Bid)

(Signature)

ADDRESS:

TITLE: _____
(Owner, Partner, President or Vice President)

LICENSE #: _____

FEDERAL ID#: _____

ATTEST:

By: _____

(CORPORATE SEAL)

TITLE: _____
(Corporate Secretary or Asst. Secretary Only)

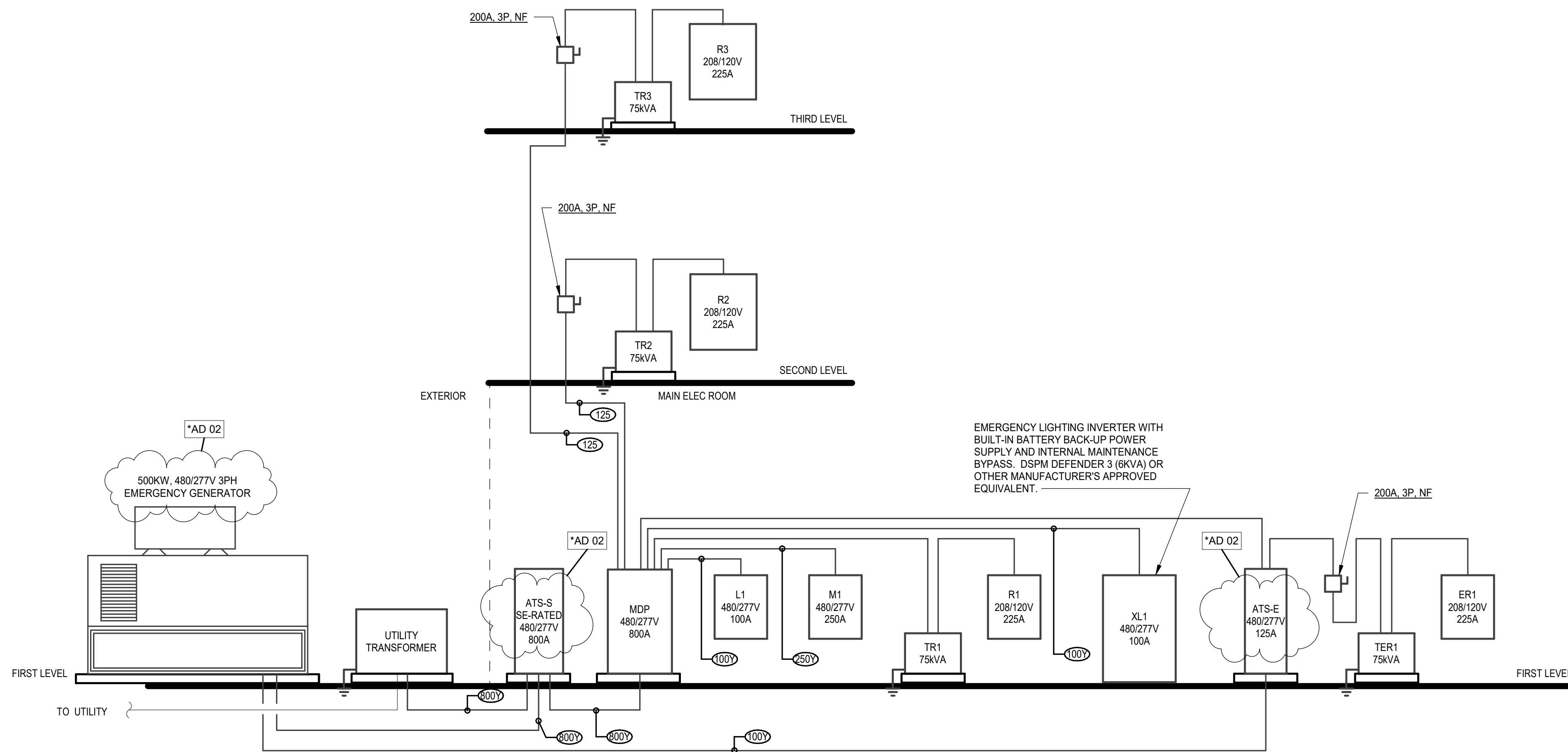
Bid Manual received and used in computing bid (Initial here) _____

Addendum received and used in computing bid. Failure to acknowledge receipt of addendum may result in bid being considered non-responsive. (Initial each as applicable)

Addendum No. 1 _____ Addendum No. 2 _____ Addendum No. 3 _____ Addendum No. 4 _____
Addendum No. 5 _____ Addendum No. 6 _____ Addendum No. 7 _____ Addendum No. 8 _____

Construction Manager Clarification received and used in computing bid. Failure to acknowledge receipt of clarification may result in bid being considered non-responsive (Initial each as applicable)

Clarification No. 1 _____ Clarification No. 2 _____ Clarification No. 3 _____ Clarification No. 4 _____
Clarification No. 5 _____ Clarification No. 6 _____ Clarification No. 7 _____ Clarification No. 8 _____



ONE LINE/RISER DIAGRAM

COPPER FEEDER SCHEDULE							
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#8,#10 G	1"	45Y	1	4#8,#10 G	1"
50	1	3#8,#10 G	1"	50Y	1	4#8,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#110,#6 G	2"	150Y	1	4#110,#6 G	2"
175	1	3#210,#6 G	2"	175Y	1	4#210,#6 G	2"
200	1	3#310,#6 G	2"	200Y	1	4#310,#6 G	2"
225	1	3#410,#4 G	2 1/2"	225Y	1	4#410,#4 G	2 1/2"
250	1	3-250KCM,#4 G	2 1/2"	250Y	1	4-250KCM,#4 G	2 1/2"
300	1	3-350KCM,#4 G	2 1/2"	300Y	1	4-350KCM,#4 G	2 1/2"
350	2	3#210,#3 G	2"	350Y	2	4#210,#3 G	2"
400	1	3-600KCM,#3 G	4"	400Y	1	4-600KCM,#3 G	4"
450	2	3#410,#2 G	2 1/2"	450Y	2	4#410,#2 G	2 1/2"
500	2	3-250KCM,#2 G	2 1/2"	500Y	2	4-250KCM,#2 G	2 1/2"
600	2	3-350KCM,#1 G	3"	600Y	2	4-350KCM,#1 G	3"
700	2	3-500KCM,#1/0 G	4"	700Y	2	4-500KCM,#1/0 G	4"
800	2	3-600KCM,#1/0 G	4"	800Y	2	4-600KCM,#1/0 G	4"
1000	3	3-450KCM,#2/0 G	4"	1000Y	3	4-450KCM,#2/0 G	4"
1200	4	3-350KCM,#3/0 G	3"	1200Y	4	4-350KCM,#3/0 G	3"
1800	4	3-600KCM,#4/0 G	4"	1800Y	4	4-600KCM,#4/0 G	4"
2000	5	3-600KCM,#250 G	4"	2000Y	5	4-600KCM,#250 G	4"
2500	6	3-600KCM,#350 G	4"	2500Y	6	4-600KCM,#350 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.16, 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

TRANSFORMER SCHEDULE					
kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10,#10G,3/4" C	4#4,#8G,1" C
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#8,#10G,1" C	4#1,#8G,1 1/2" C
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4,#8G,1 1/4" C	4#1/0,#4G,2" C
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1,#8G,1 1/2" C	4-250KCM,#2G, 2-1/2" C
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#210,#6G,2" C	4-500KCM,#1/0G,4" C
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#410,#4G,2 1/2" C	4-600KCM,#250 G, 4" C
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#210,# 3-G,2" C	(2 SETS) 4-600KCM,#3/0G, 4" C
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#410,# 2 G,2-1/2" C	(4 SETS) 4-350KCM,#3/0G, 4" C

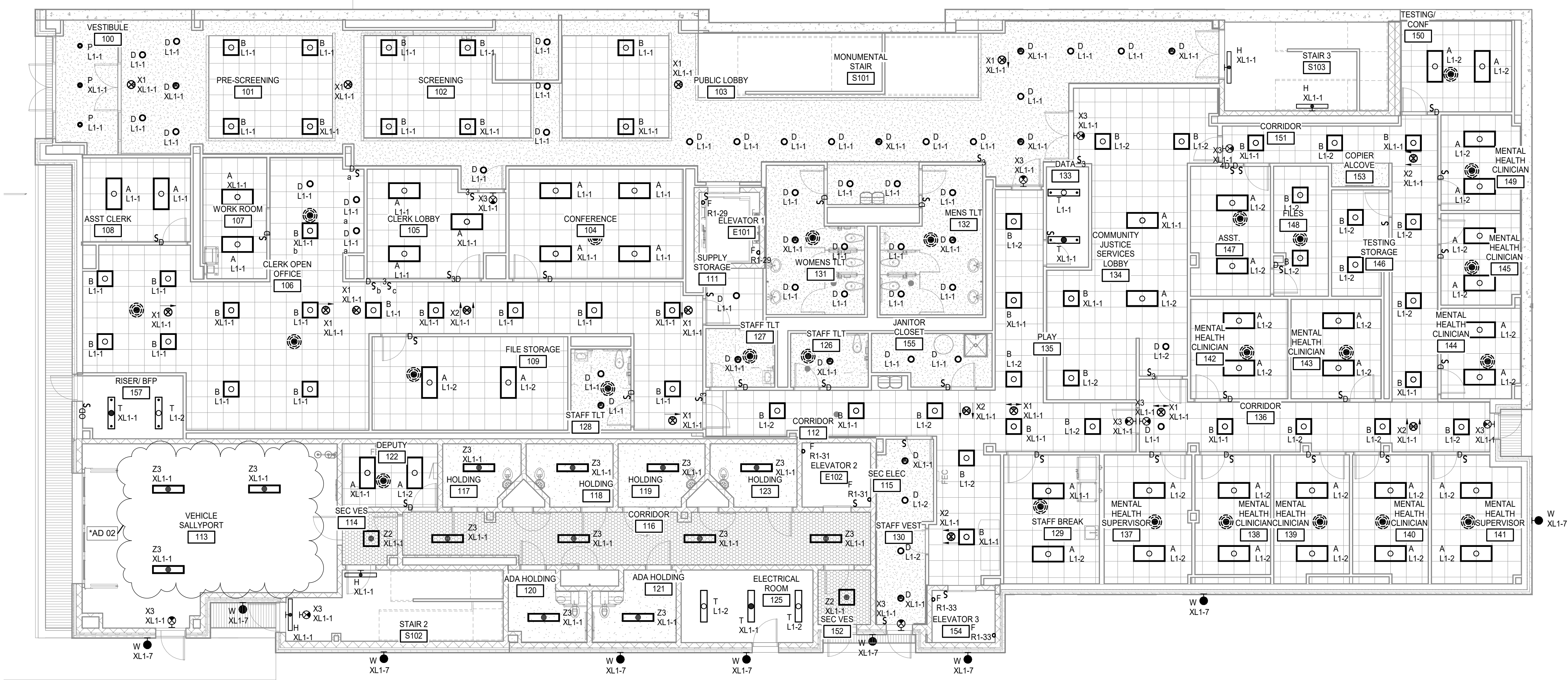
Mechanical Equipment - ELECTRICAL DATA

Mark	Voltage	Pole	hP	FLA	MCA	MOCP	kVA	Disconnect	Branch Circuiting	Panel	Circuit Number	Comments
B-1	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	81	
B-2	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	83	
BAS PANEL	120 V	1					0.0 kVA	N/A	2#12, 1#12 G, 3/4" C	R3	79	
CU-1	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	66,68		
CU-2	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	70,72		
CU-3	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	74,76		
CU-4	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	78,80		
CU-5	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	82,84		
DSS-1	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-2	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-3	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-4	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-5	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
EF-1	120 V	1				1.2 kVA	30A2PNF, NEMA 3R	2#12, 1#12 G, 3/4" C	R3	71		
EF-2	120 V	1				0.5 kVA	30A2PNF, NEMA 3R	2#12, 1#12 G, 3/4" C	R3	73		
EF-299	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	83		
EF-BOILER	115 V	1				0.1 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	77		
EF-ELEC125	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	79		
EF-ELEC360	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	75		
EF-VSP	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	81		
HWHU-1	120 V	1	9.0 A	15.0 A	15.0 A	1.1 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	83		
HWHU-2	120 V	1	0.8 A	1.0 A	1.8 A	0.1 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	69		
P-1	460 V	3	3	0.0 A	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3#12, 1#12 G, 3/4" C	M1	2,4,6	
P-2	460 V	3	3	0.0 A	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3#12, 1#12 G, 3/4" C	M1	8,10,12	
RTU-1	460 V	3	0.0 A	231.2 A	250.0 A	192.2 kVA	BY DIV. 23	4-350, 1#4 G, 3" C	MDP	38,40,42		
TU1-1	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	65		
TU1-2	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	66		
TU1-2A	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-2B	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	68		
TU1-3	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	69		
TU1-4	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	70		
TU1-5	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-7	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-8	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	71		
TU1-9	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-10	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	72		
TU1-11	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	73		
TU1-12	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	75		
TU1-13	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	77		
TU2-1A	120 V	1	0.0 A	6.9 A	15.0 A	0.8 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	65		
TU2-1B	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	67		
TU2-2	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	68		
TU2-3	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	69		
TU2-4	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	71		
TU2-5	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	73		
TU2-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	75		
TU2-7	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	77		
TU2-8	120 V	1	0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	79		
TU2-9	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	81		
TU3-1	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	56		
TU3-2	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	57		
TU3-3	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	58		
TU3-4	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	59		
TU3-5	120 V	1	0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	60		
TU3-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-7	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-8	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-9	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-10	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	62		
TU3-11	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	63		
TU3-12	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-13	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-14	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	64		
TU3-15	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	65		
TU3-16	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	67		
UHELEC	208 V	2	11.0 A	13.8 A	20.0 A	3.0 kVA	30A2PNF, NEMA 1	3#12, 1#12 G, 3/4" C	R1	74,76		
UH-S102	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A3PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	78,80		
UH-S103	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A3PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	82,84		
UH-S202	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	74,76		
UH-S203	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	70,72		
UH-S302	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	82,84		
UH-S303	208 V	2	0.0 A	9.6 A	15.0 A	2.0 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	78,80		

INTERIOR LIGHT FIXTURE SCHEDULE											
FIXTURE			LAMP		MOUNTING			OPTIONS			COMMENTS
TYPE	MANUFACTURER	SERIES NO.	WATTAGE	LUMENS	TYPE	COLOR TEMP.		BI-LEVEL	DIMMING	INTEGRAL OCC./VAC. SENSOR*	
A	LITHONIA LIGHTING	2ALL4-30L-EZ1-LP840	25	3096 lm	LED	4000 K	RECESSED		X		
B	LITHONIA LIGHTING	2ALL2-20L-EZ1-LP840	18	2065 lm	LED	4000 K	RECESSED		X		
D	LITHONIA LIGHTING	LDN6-40/05-L06-WPL-S-MVOLT-GZ1-SF	8	662 lm	LED	4000 K	RECESSED		X		
F	PHILIPS	LPL-S-4L53	32	1800 lm	LED	4000 K	SURFACE - ELEVATOR SHAFT / PIT				
H	LITHONIA LIGHTING	WL4-30L-LP840-MSD7	28	3251 lm	LED	4000 K	SURFACE - WALL			X	
P	V2 LIGHTING	C2LP-RV-208340-WH-WH	20	2000 lm	LED	4000 K	PENDENT - 10' ABOVE STAIRS				FIXTURE MOUNTING HEIGHTS FOLLOW SLOPE OF THE STAIRS DOWN FROM UPPER FLOOR
T	LITHONIA LIGHTING	ZL1N-L48-SMR-3000LM-FST-MVOLT-40K-60CRI-WH-ZACVH	25	3172 lm	LED	4000 K	PENDENT - 9' A.F.F.				
W	MCGRAW EDISON	ISW-B014-ED-E1-BL3-BK-P-CWB-120V	27	1380 lm	LEDs	4000 K	SURFACE - WALL 12' ABOVE GRADE				
X1	LITHONIA LIGHTING	LRP-1-RW-(LARA/LRA)-277	5		LED		SURFACE - CEILING				EXIT - CEILING - SURFACE - SINGLE FACE
X2	LITHONIA LIGHTING	LRP-2-RW-(LARA/LRA)-277	5		LED		SURFACE - CEILING				EXIT - CEILING - SURFACE - DOUBLE FACE
X3	LITHONIA LIGHTING	LRP-1-RW-(LARA/LRA)-277	5		LED		SURFACE - WALL				EXIT - WALL
Z2	KENALL LIGHTING	SCD-2-1-25L40K-DCC-277-BU-1-FS	25	3079 lm	LED	4000 K	SURFACE - CEILING				SECURITY FIXTURE
Z3	KENALL LIGHTING	SCA-4-1-45L40K-DCC-277-BU-1-DLN-FS	45	4099 lm	LED	4000 K	SURFACE - CEILING	X			SECURITY FIXTURE

GENERAL LIGHTING NOTES
A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



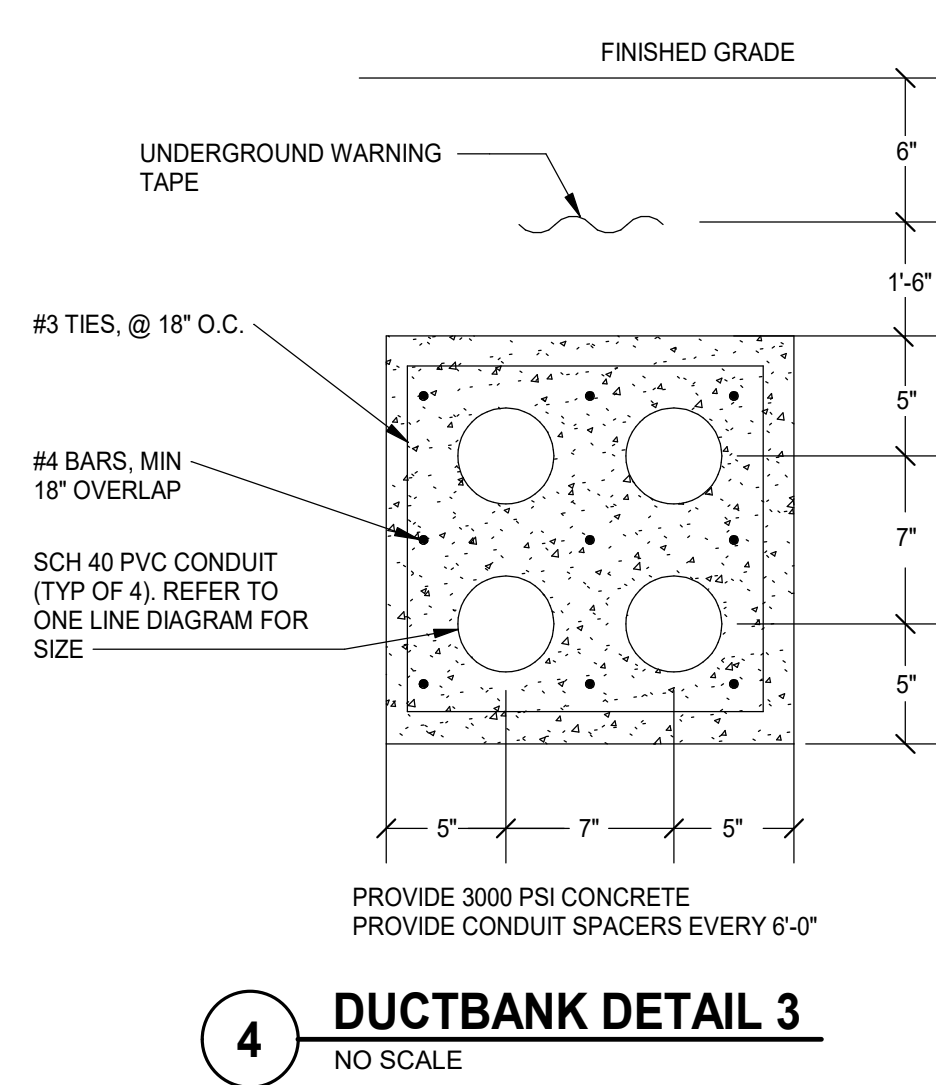
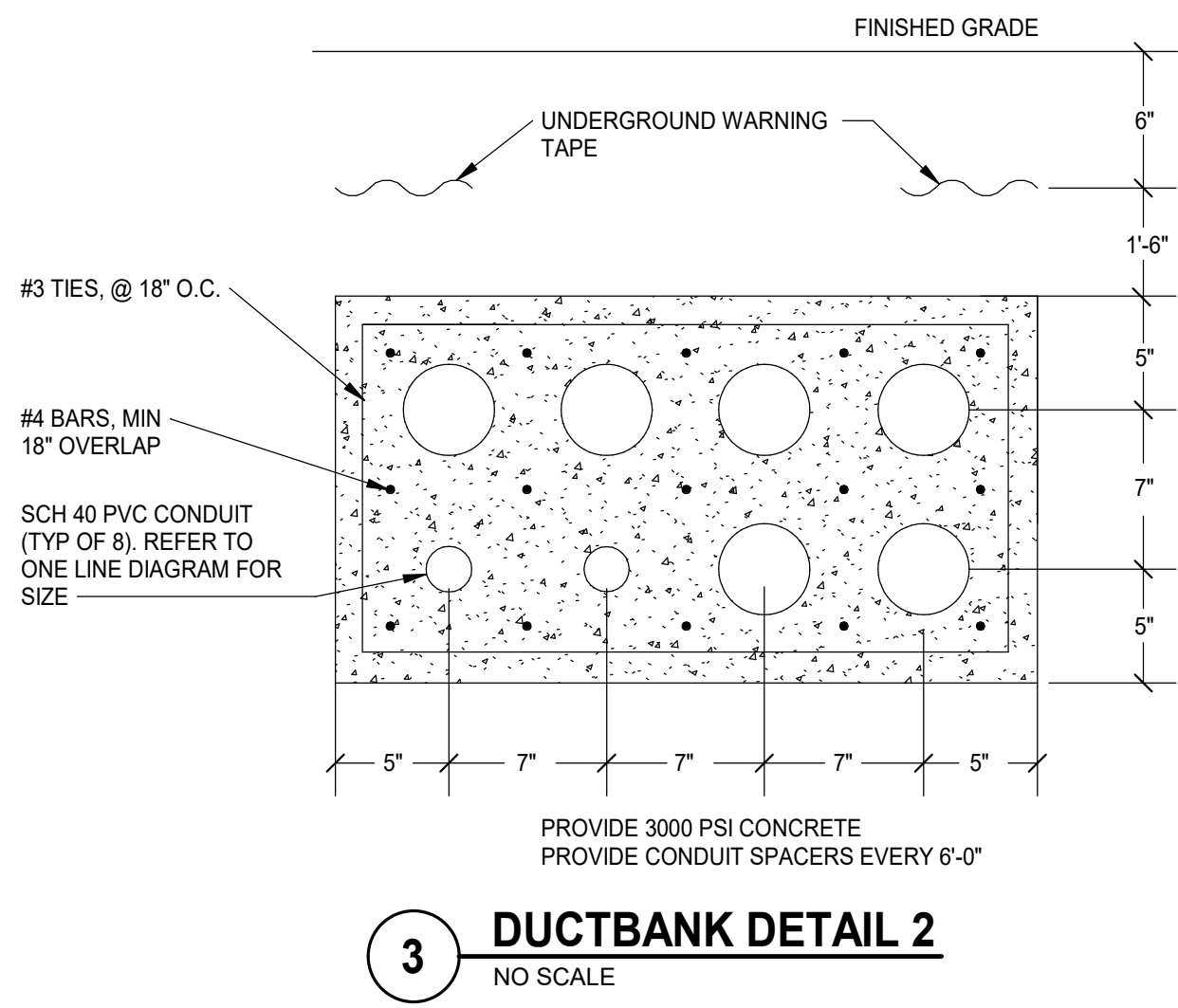
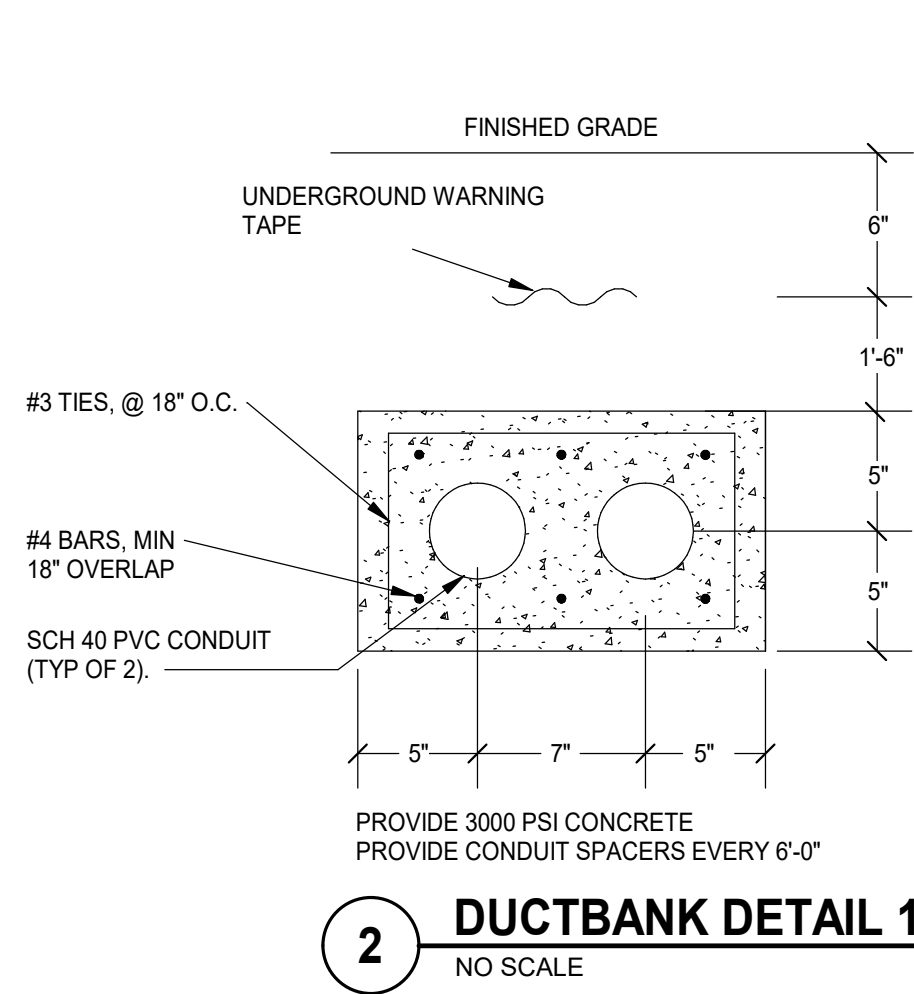
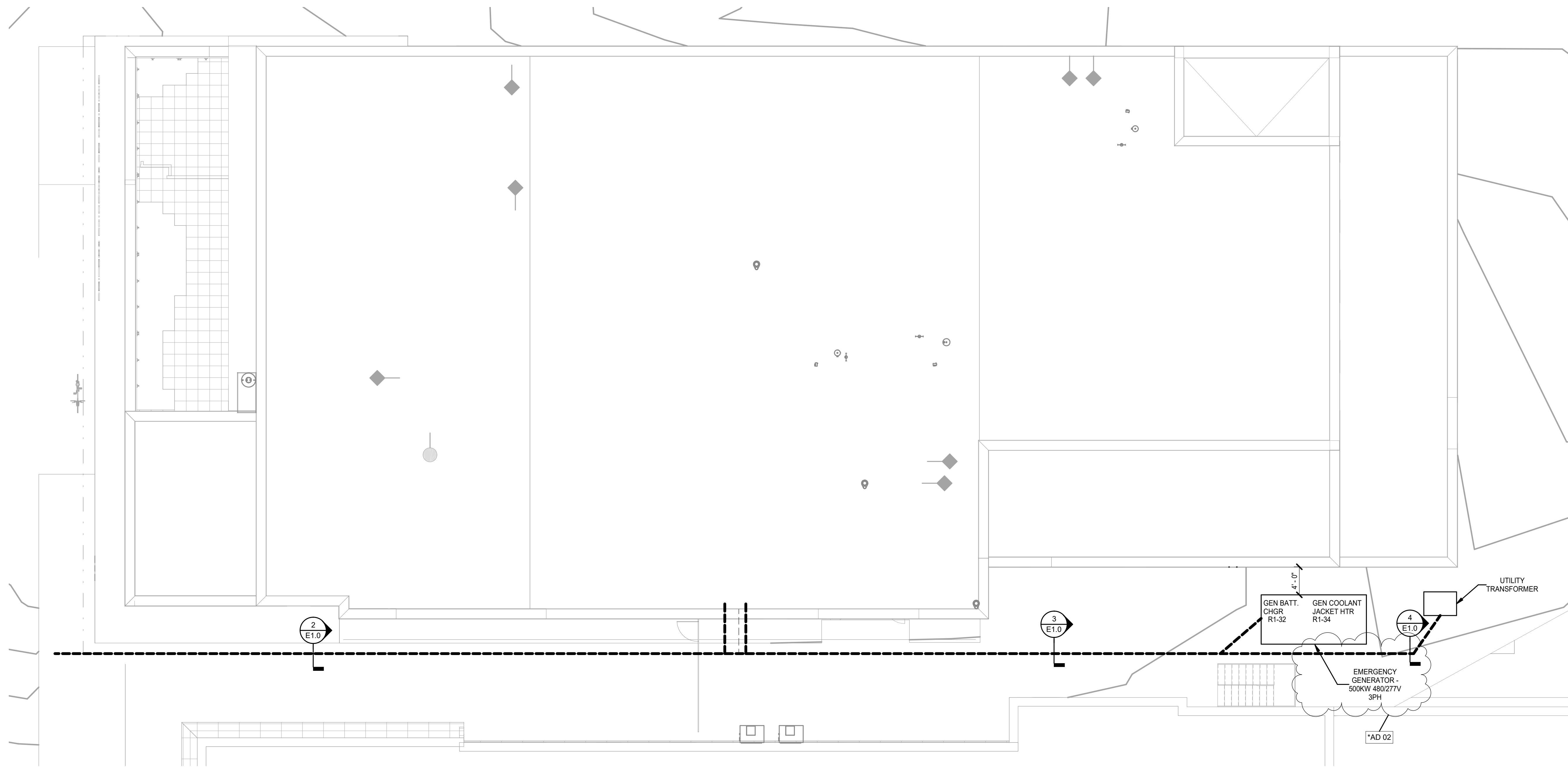
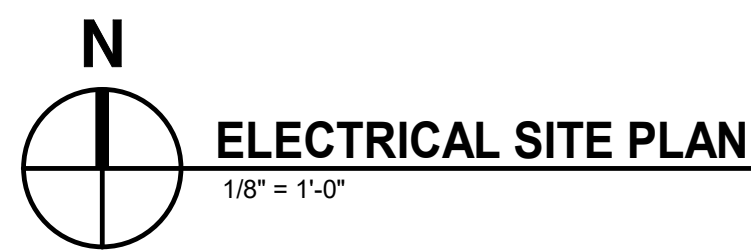
PROJECT NO.	DATE
571990	MAY 22, 2019
DATE	REVISIONS
6/6/19	DESCRIPTION
	*AD 02

FIRST FLOOR -
LIGHTING PLAN

E2.1.1



6/6/2019 9:53:46 AM



PROJECT NO.	DATE
571990	MAY 22, 2019
DATE	REVISIONS
6/6/19	*AD 02

ELECTRICAL SITE PLAN

DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC



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E1.0