



WATER AND SEWER
Engineering Design

DATE:
August 12, 2025

TO:
Plan Holders
Contractors

FROM:
Jenna Richardson
918-596-9637
jennarichardson@cityoftulsa.org

EMAIL TRANSMITTAL

ADDENDUM NO. 3

PROJECT NO. SW-23-01-01
STORMWATER MAINTENANCE AND OPERATIONS
BUILDING

Number of pages: 32

All addenda to the contract documents should be denoted on the
last page of the Proposal in the space provided.

Thank you,
Contract Administration



WATER AND SEWER
Engineering Design

DATE:
August 14, 2025

**ADDENDUM NO. 3
TO
PROJECT NO. SW-23-01-01
STORMWATER MAINTENANCE AND OPERATIONS BUILDING**

This Addendum No. 3 consisting of twenty (20) items and fourteen (14) questions and answers, submitted by BKL, Inc., is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.**

This Addendum No. 3 consists of the following:

1. The attached documents list the detailed items that have been modified in Addendum No. 3. These documents shall be inclusive and apply to this project.
2. Delete the existing bid proposal form in its entirety and replace with the revised Bid Proposal located at:
<https://www.cityoftulsa.org/government/departments/public-works/engineering-services/construction-bids/>. It is Bidder's responsibility to download the revised Bid Proposal.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA

A handwritten signature in blue ink, appearing to read "Eric Lee", written over a horizontal line.

For
Eric Lee
Director

HAS tgp
HAS/TGP/BC/JR/kt



ADDENDUM NO. 03
Stormwater Maintenance and Operations Building
SW23-01-01
August 14 2025

NOTICE TO BIDDERS

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

CHANGES/CLARIFICATIONS TO PROJECT MANUAL

1. Specification 102600 Wall and Door Protection
Add new specification 102600 in its entirety. Refer attached.
2. Specification 064100 Architectural Casework
Omit paragraph 3.4 from specification 064100 in its entirety.
3. Specification 133419 Metal Building Systems
Add "Steel Tech Building Systems" to section 2.3, paragraph A.
4. Specification 211316 Dry-Pipe Sprinkler Systems
Omit sections 2.06 Dry Sprinkler System Nitrogen Generator with Purge/Vent, 2.07 Pre-action Sprinkler System Nitrogen Generator with Purge/Vent and remaining references to Nitrogen.
5. Specification 265200 Solid State Lighting
Add Smith Lighting Sales as an approved vendor.

CHANGES/CLARIFICATIONS TO DRAWINGS

1. Sheet G0-03
Revise pay item 10 to read "NOT USED".
Revise the quantity on pay item 89 from "4,252" SF to "3,828" SF.
Add line below pay item 90 to read " | 90B | 095123 | 9.ACT3.2 – ACOUSTICAL CEILING TILE AND GRID (HIGH HUMIDITY) | 1,7 | SF | 427".
2. Sheet G0-04

Revise pay item 232 to a quantity of two (2).

Revise the following line below line 197 " | 197B | 265200 / 098436 | 40'-0" CEILING BAFFLES - MATCH MATERIAL AND SIZE OF PENDANT LIGHT P40 | 1 | EA | 8 |"

3. Sheet A4-02

Revise the word "Quartz" to "Solid Surface (SDSF)"

4. Sheet A5-01

Revise the word "Quartz" to "Solid Surface (SDSF)"

5. Sheet A5-02

Revise the word "Quartz" to "Solid Surface (SDSF)"

6. Sheet A5-05, Detail 6

Revise the word "Quartz" to "Solid Surface (SDSF)"

7. Sheet A7-01

Revise the Ceiling Finish in room 151 LAB to ACT3.2

8. Sheet A7-03

Add the following text to Keynote 6.LIP "1/2" OVERHANG, TYPICAL"

Revise "SDSF" under the PLASTIC LAMINATE heading to read "SDSF/RRV".

Revise ACOUSTICAL CEILING TILES AS FOLLOWS: "ACT1" to read "ACT1.2", "ACT2" to read "ACT2.2", and "ACT3" to read "ACT3.2".

Add the following item to the finish legend:

ACOUSTICAL BAFFLE	
	ACOUSTICAL CEILING BAFFLE
SPECIFICATION: 265200 / 098436	
MANUF:	Neo Ray
DESCRIPTION:	Ceiling Baffles
	Match material and size of light fixture P40
	LOCATION: OPEN OFFICE

9. Sheet E2-02, Electrical Power Plan - South

Add keynote #2 "PROVIDE WATERPROOF WHILE IN-USE COVER FOR DATA".

Add keynote at exterior data location in wash bay.

10. Sheet E2-03, Electrical Power - North

Modify microwave receptacle to GFCI in Break Room 108 per attached drawings.

Modify location of exterior receptacle by overhead door per attached drawings.

Modify location of undercounter fridge receptacle in Lactation Room 107 per attached drawings.

11. Sheet E2-11, Electrical Systems Plan

Add access control per Door Schedule.

12. Sheet E4-01, Enlarged Electrical Plans

Provided clarification of annunciator panel conduit routing per attached drawings.

Provided clarification to generator panel circuiting per attached drawings.

13. Sheet E5-01, Electrical Details

Added 4" housekeeping pad for MDP.

14. Sheet E6-01, Electrical Schedules

Modify breaker for range to include GFCI protection per attached drawings.

Add keynote at exterior data location in wash bay per attached drawings.

15. Sheet E6-03, Panel Schedules

Modify fixtures S4, S4E, and S8 to be surface mounted.

ADDITIONAL QUESTIONS/RESPONSES

Q: Can the QCP requirements be removed from 064100 Architectural Casework?

A: Yes, this requirement has been removed from the specifications.

Q: Can we substitute the 1.125" thick shelves and 1.5" thick cabinet bottoms for 0.75" material?

A: The cabinet bottom can be 3/4" with a 1 1/2" front lip. The 1 1/8" adjustable shelf can be 3/4" shelf with a 1 1/8" to 1 1/2" front lip.

Q: Civil Pay note 105 states: "EXISTING AGGREGATE BASE MATERIAL ON-SITE MUST BE APPROVED BY ENGINEER TO BE UTILIZED FOR SOUTH DRIVE AGGREGATE BASE, TYPE A. APPROVED EXISTING AGGREGATE BASE MATERIAL ON-SITE MUST BE USED PRIOR TO WEST PARKING LOT. ANY MATERIAL ITEM MAY BE ENTIRELY UNDERRUN." What does this statement mean? If existing agg base is approved for use, what pay item will be utilized for the removal and placement of it?

A: Use the existing gravel on site in place of Aggregate Base, Type A. The pay quantity in the summary sheets is the estimated amount needed to construct the parking lots, drives and building slab. Contractors should bid as if the existing aggregate base is nonexistent. This pay quantity can be reduced if utilizing existing aggregate base during construction.

Q: What are the requirements for the building pad? How will it be quantified and paid for?

A: Please refer to the soils report, it has been included in addendum.

Q: Pay item 218 – Trees (2 Ea) - What species and size are these?

A: Contractors shall bid 2" caliper Chinese Pistache trees.

Q: Pay item 232 – Outlet Lateral Headwall has a quantity of 7 ea. There are only 2 of them found in the drawings.

A: The correct quantity is 2. Sheet G0-04 has been updated and attached to this addendum.

Q: We are finding reference to quartz countertops in the restrooms (12.RRV) but do not see that a quartz has been noted on the finish legend. Are the restrooms to get quartz (12.RRV) or are they to get solid surface (12SDSF)? If they are to get quartz has one been selected?

A: Sheet A4-02, A5-01, A5-02: Revise the word "Quartz" to "Solid Surface (SDSF)"

Sheet A7-03: Change "SDSF" under the PLASTIC LAMINATE heading to read "SDSF/RRV".

Q: On elevation 6/A5-05 148 Coffee - West there is a notation for 6.LIP. The note at the top right hand of the page is blank. I am assuming this is noting a specific overhang for the countertop. Can you clarify what this is to be?

A: Sheet 6/A5-05: At keynote 6.LIP Add the following keynote text "1/2" OVERHANG, TYPICAL"

Q: There is a dumpster screen shown in the drawings. one reference is on sheet C1-13. I am not finding any info on what this is to be. Is this handled by the owner? If not, can you clarify what this screen wall is to be made from?

A: See Civil Pay Note 102 on Sheet G0-07 for requirements. The screen wall is a wood privacy fence surrounding the dumpster pad, provided and installed by the contractor.

Q: M8 is shown on the finish schedule. What is M8?

A: Refer to sheet G1-02, partition types. M8 is 8" burnished block.

Q: There does not appear to be gas shown going to RTU's 3 & 4 on the plans. Is this correct?

A: Correct, these are cooling only units.

Q: There is a detail shown for Fire Dampers on M102, but no locations are shown in the plans for Fire Dampers. Are Fire Dampers needed, location?

A: Mechanical room #147 has rated walls. Refer to detail 1/M1-02 near column 4B.

Q: Instead of installing a dry sprinkler system, can the fire suppression contractor install dry sidewalls or an antifreeze loop over the canopies?

A: Dry sidewalls are acceptable as long as proper coverage can be achieved. Antifreeze loops will not be approved.

Q: On the unit pricing bid sheet, Line # 10 notes 231 SF of 6" CMU. I am unable to locate the 6" CMU on the plans. Can you clarify where this is?

A: The 6" is currently not in plans and will be deleted from the bid form and pay quantity sheets.

ATTACHMENTS

Sheet G0-03

Sheet G0-04

Sheet E2-02

Sheet E2-03

Sheet E2-11

Sheet E4-01

Sheet E5-01

Sheet E6-01

Sheet E6-03

Specification 102600 Wall and Door Protection

Substitution Request Rejected – Lakewood Cabinetry, IPB Core Material

Substitution Request Approved as Noted – Smith Lighting Sales, Inc., All

Substitution Request Approved as Noted – Steel Tech Building Systems, Metal Building Supplier

Substitution Request Rejected – Steel Tech Building Systems, 24 ga. Metal Roof & Wall Panels

END

ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET

STORMWATER MAINTENANCE AND OPERATIONS BUILDING PROJECT NO. SW23-01-01

Please read the following instructions carefully.

1. After opening this file re-save it as your company's name.
2. Open the BID FORM Sheet from the tabs below.
3. Input the unit price of the appropriate pay item in the cells highlighted in blue.
4. Review all data input and check calculations to ensure accuracy of Bid.
5. Print 1hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
6. Complete and sign the "Signature Page" document.
6. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and Between: BKL, Inc., (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for Project No. SW23-01-01. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ENGINEER has and retains ownership of the electronic media. ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT'S computer hardware or software, and ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. !!! By opening and using this FILE, You AGREE to these TERMS AND CONDITIONS!!!

**Stormwater Maintenance and Operations Building
PROJECT NO: SW23-01-01**

TO: HONORABLE MAYOR
CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents hereto attached and other documents referred to therein: to complete said work within **730** calendar days after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineer as set forth in the Contract.

Basis of Award

IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE BID SHALL BE DETERMINED BY THE TOTAL BASE BID PLUS ADDITIVE ALTERNATES NO.1 THRU NO. 6. THE ITEMS IN ADDITIVE ALTERNATES NO.1 THRU NO. 6 MAY OR MAY NOT BE INCLUDED IN THE CONTRACT AWARD AT THE SOLE DISCRETION OF THE CITY OF TULSA. ANY PROPOSAL SUBMITTED WITH THE ADDITIVE ALTERNATE NO.1 THRU NO. 6 INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE

Note: - Item numbers omitted are not a part of the Contract.

BID ITEM	SPEC NO.	DESCRIPTION	UNIT	QTY	DATA INPUT	
					UNIT PRICE	TOTAL EACH ITEM
1	DIV 1	GENERAL REQUIREMENTS AND MOBILIZATION	LSUM	1		
2	012100	OWNERS ALLOWANCE	ALLOW	170000	\$ 1.00	\$170,000.00
3	033000	CONCRETE SLAB AND SLAB EDGE	CY	411		
4	032000/033000	ELEVATED CONCRETE SLAB, REINFORCED	CY	15		
5	032000/033000	REINFORCED CONCRETE FOOTINGS	CY	41		
6	033543	SCONC - SEALED CONCRETE	SF	1358		
7	033543	PCONC1 - POLISHED CONCRETE FINISHING	SF	8201		
8	042200	M8 - 8" BURNISHED BLOCK - FULLY GROUTED	SF	1176		
9	042200	M8 - 8" BURNISHED BLOCK	SF	1386		
10	042200	NOT USED	-	-		
11	042613	M4 - 4" BURNISHED BLOCK	SF	357		
12	051213	STEEL CANOPY STRUCTURE	LB	14430		
13	064100	WD - WOOD BASE	LF	328		
14	064100	WD - CHAIRRAIL	LF	546		
15	061000	PLYWOOD AT MECH ROOM	SF	361		
16	064116	6.BSINK SINK BASE CABINET - 36x34x24	EA	3		
17	064116	6.BVKSFDA-ADA WORKSURFACE BASE CABINET - 30x34x24	EA	1		
18	064116	6.BVKSF - WORKSURFACE BASE CABINET - 36x34x24	EA	3		
19	064116	6.BTRSH - TRASH BASE CABINET WITH 8" COUNTER RING- 18x34x24	EA	4		
20	064116	6.B2DRW - 2 DRAWER BASE CABINET - 24x34x24	EA	3		
21	064116	6.B3DRW - 3 DRAWER BASE CABINET - 18x34x24	EA	2		
22	064116	6.B3DRW - 3 DRAWER BASE CABINET - 27x34x24	EA	1		
23	064116	6.B3DRW - 3 DRAWER BASE CABINET - 28x34x24	EA	1		
24	064116	6.B3DRW - 3 DRAWER BASE CABINET - 15x30x24	EA	2		
25	064116	6.B3DRW - 3 DRAWER BASE CABINET - 30x24x24	EA	2		
26	064116	6.B3DRW - 3 DRAWER BASE CABINET - 30x42x24	EA	2		
27	064116	6.B1DRW2DR - 1 DRAWER + 1 DOOR BASE CABINET - 16x34x24	EA	1		
28	064116	6.B2DRW2DR - 2 DRAWER + 2 DOOR BASE CABINET - 24x34x24	EA	1		
29	064116	6.B2DRW2DR - 2 DRAWER + 2 DOOR BASE CABINET - 27x34x24	EA	2		
30	064116	6.B2DRW2DR - 2 DRAWER + 2 DOOR BASE CABINET - 30x34x24	EA	6		
31	064116	6.B2DRW2DR - 2 DRAWER + 2 DOOR BASE CABINET - 32x34x24	EA	6		
32	064116	6.B2DRW2DR - 2 DRAWER + 2 DOOR BASE CABINET - 36x34x24	EA	5		
33	064116	6.U2DR - 1 DOOR UPPER CABINETS - 16x30x15	EA	1		
34	064116	6.U2DR - 1 DOOR UPPER CABINETS - 18x30x15	EA	2		
35	064116	6.U2DR - 2 DOOR UPPER CABINETS - 24x30x15	EA	4		
36	064116	6.U2DR - 2 DOOR UPPER CABINETS - 30x30x15	EA	2		
37	064116	6.U2DR - 2 DOOR UPPER CABINETS - 32x30x15	EA	6		
38	064116	6.U2DR - 2 DOOR UPPER CABINETS - 33x30x15	EA	2		
39	064116	6.U2DR - 2 DOOR UPPER CABINETS - 35x30x15	EA	2		
40	064116	6.U2DR - 2 DOOR UPPER CABINETS - 36x30x15	EA	2		
41	064116	6.U2DR - 2 DOOR UPPER CABINETS - 36x24x15	EA	5		
42	064116	6.UCSU - OPEN SHELF - 36x30x15	EA	2		
43	064116	6.UCSU - OPEN SHELF CORNER UNIT - 30x30x15	EA	1		
44	064116	6.BM - BENCH UNIT 60"	EA	2		
45	064116	6.BN - BENCH UNIT SIDE TABLE	EA	3		
46	064116	6.RECDESK - RECEPTION DESK WITH TRANSACTION COUNTER	LF	14		
47	064116	6.RECDESK - RECEPTION DESK	LF	5		
48	064116	6.VAN - RESTROOM VANITY 84x32x22	EA	2		
49	064116	6.VAN - RESTROOM VANITY 36x32x22	EA	2		
50	064116	6.VAN - RESTROOM VANITY 33x32x22	EA	1		
51	072100	THERMAL INSULATION	SF	840		
52	075423	TPO ROOFING SYSTEM	SF	1890		
53	079200	JOINT SEALANTS	SYS	1		
54	081113, 081416, 087100	TYPE A -36" WOOD DOOR, H.M. FRAME, AND HARDWARE	EA	32		
55	081113, 087100	TYPE A -PAIR 36" H.M. DOORS, H.M. FRAME, AND HARDWARE	EA	4		
56	081113, 081416, 087100	TYPE A -PAIR 36" WOOD DOORS, H.M. FRAME, AND HARDWARE	EA	6		
57	081113, 087100, 088000	TYPE B - H.M. DOOR, H.M. FRAME, AND HARDWARE - W/LITE	EA	9		
58	081113, 087100	FEMA DOOR, H.M. FRAME, AND HARDWARE	EA	2		
59	084113, 087100, 088000	PAIR AL FRAME DOOR WITH GLASS, AL FRAME, AND HARDWARE	EA	3		
60	084113/088000	ALUM. STOREFRONT AND GLAZING	SF	962		
61	083613	OVERHEAD SECTIONAL DOOR	EA	1		
62	092216/092900	P1 - PARTITION	SF	1327		
63	092216/092900	P1A - PARTITION	SF	6573		

64	092216/092900	P1AF - PARTITION	SF	4526		
65	092216/092900	P1F - PARTITION	SF	409		
66	092216/092900	P2 - PARTITION	SF	2093		
67	092216/092900	P2A - PARTITION	SF	305		
68	092216/092900	P3FT - PARTITION	SF	762		
69	092216/092900	P4TT - PARTITION	SF	265		
70	092216/092900	P5A - PARTITION	SF	249		
71	092216/092900	P5AF - PARTITION	SF	1396		
72	092216/092900	P6 - PARTITION	SF	6286		
73	092216/092900	P6A - PARTITION	SF	642		
74	092216/092900	P6F - PARTITION	SF	1256		
75	092216/092900	P6AF - PARTITION	SF	42		
76	092216/092900	P7T - PARTITION	SF	34		
77	092216/092900	P7AT - PARTITION	SF	142		
78	092216/092900	P7TAF - PARTITION	SF	183		
79	092216/092900	P11AF - PARTITION	SF	432		
80	092216/092900	P12AF - PARTITION	SF	179		
81	092216/092900	GYP BD CEILINGS	SF	1374		
82	093013	9.CT1 - PORCELAIN TILE (RESTROOM AND ENTRY FLOOR)	SF	1914		
83	093013	9.CT2 - PORCELAIN TILE (EXTERIOR TILE)	SF	1249		
84	093013	9.CT3 - PORCELAIN TILE (FLOORS)	SF	733		
85	093013	9.CT3 - PORCELAIN TILE (BASE)	SF	367		
86	093013	9.CT3 - PORCELAIN TILE (RESTROOM WALLS)	SF	1622		
87	093013	9.CT4 - PORCELAIN TILE (ACCENT AT RESTROOM WALLS)	SF	42		
88	093013	9.CT5 - PORCELAIN TILE (BACKSPLASHES AND RECEPTION ACCENT)	SF	215		
89	095123	9.ACT1.2 - ACOUSTICAL CEILING TILES AND GRID	SF	3828		
90	095123	9.ACT2.2 - ACOUSTICAL CEILING TILES AND GRID (HIGH ACOUSTICS)	SF	5659		
90B	095123	9.ACT3.2 - ACOUSTICAL CEILING TILES AND GRID (HIGH HUMIDITY)	SF	427		
91	096513	9.RB1 - RUBBER BASE	LF	2989		
92	096813	9.CPT1 - CARPET TILES - OFFICES	SY	749		
93	097200	VINYL WALL COVERING AT MUD ROOM	SF	185		
94	098433	9.AWP1, 9.AWP3, AND 9.AWP4 - ACOUSTICAL WALL PANELS	SF	1160		
95	098433	9.AWP2 - ACOUSTICAL WALL PANELS WITH WOOD SLATS	SF	2555		
96	099133	PAINT - EXTERIOR STEEL CANOPY	SYS	2		
97	099123	PAINT - GYP WALLS	SF	41738		
98	099123	PAINT - GYP CEILING	SF	1527		
99	099123	PAINT - EXP CEILING	SF	5567		
100	101100	10.MB9648 - MARKERBOARD 96" X 48"	EA	8		
101	101100	MARKERBOARD MARKER KITS	EA	4		
102	101416	PLAQUES	EA	1		
103	101419	BUILDING SIGNAGE - DIMENSIONAL LETTERS	SYS	1		
104	101419	DECORATIVE CONFERENCE ROOM SIGNAGE	SYS	1		
105	101423	EVACUATION SIGNAGE	EA	15		
106	101423	ROOM ID SIGNAGE	EA	13		
107	101423	ROOM ID SIGNAGE WITH INSERT	EA	23		
108	101423	CONFERENCE ROOM SIGNAGE	EA	8		
109	101423	RESTROOM SIGNAGE	EA	5		
110	101423	REFUGE SIGNAGE	EA	2		
111	101423	VINYL ON GLASS	EA	1		
112	102113	10.TP - TOILET PARTITION (STANDARD)	EA	5		
113	102113	10.TP - TOILET PARTITION (URINAL SCREEN)	EA	1		
114	102113	10.TP - TOILET PARTITION (ADA)	EA	4		
115	102239	10.FP - FOLDING PARTITION WALL	SF	420		
116	102600	10.WP - WALL AND DOOR PROTECTION	EA	35		
117	102800	10.MU - MIRROR 72" WIDE X 48" TALL	EA	2		
118	102800	10.MU - MIRROR 36" WIDE X 48" TALL	EA	2		
119	102800	10.MU - MIRROR 33" WIDE X 48" TALL	EA	1		
120	102800	10.DTPW - DUAL TOILET PAPER ROLL WITH SHELF	EA	10		
121	102800	10.TSC - TOILET SEAT COVER	EA	10		
122	102800	10.SND - SANITARY NAPKIN WASTE	EA	6		
123	102800	10.GB42 - 42" GRAB BAR	EA	5		
124	102800	10.GB36 - 36" GRAB BAR	EA	5		
125	102800	10.GB18 - 18" GRAB BAR	EA	6		
126	102800	10.GBSHR - SHOWER GRAB BAR	EA	1		
127	102800	10.SDW - SOAP DISPENSER	EA	10		
128	102800	10.PTDW - PAPER TOWEL DISPENSER	EA	5		
129	102800	10.CPTD12 - RECESSED COMBO PAPER TOWEL DISPENSER AND 12 GALLON WASTE CAN	EA	5		
130	102800	10.MHS - MOP AND BROOM HOLDER WITH SHELF	EA	2		
131	102800	10.SRHC - 3' SHOWER ROD, HOOKS AND 4' (MIN) WIDE CURTAIN	EA	1		
132	102800	10.RH - ROBE HOOK	EA	3		
133	102800	10.CSS - CORNER SHOWER SHELF	EA	1		
134	102800	10.WSS - WALL MOUNTED FOLDING SHOWER SEAT	EA	10		
135	102800	10.CG - METAL CORNER GUARD	EA	47		
136	105129	10.LK - PHENOLIC LOCKERS (15W X 18D X 72H)	EA	3		

137	104413/104416	10.FEC - FIRE EXTINGUISHERS AND CABINETS	EA	6		
138	104413/104416	10.AED - AUTOMATIC EMERGENCY DEFIBRILLATOR	EA	1		
139	122413	WT3 - ROLLER WINDOW SHADES 48X48	EA	16		
140	122413	WT4 - ROLLER WINDOW SHADES 48X86	EA	5		
141	122413	WT5 - ROLLER WINDOW SHADES (3) 48X48 GROUPED TOGETHER	EA	2		
142	122413	WT6 - ROLLER WINDOW SHADES 36X48	EA	1		
143	123661	12.SDSF - SOLID SURFACE COUNTERTOP - 25" DEEP WITH 1.5 INCH EDGE	SF	245		
144	123661	12.SDSF - SOLID SURFACE VANITY - 22" DEEP WITH 1.5 INCH EDGE	SF	44		
145	123661	12.SDSF - SOLID SURFACE TRANSACTION - 12" DEEP WITH 1.5 INCH EDGE	SF	14		
146	123661	12.SDSF - SOLID SURFACE BACK SPLASH - 4"	SF	14		
147	133419	NEW PRE-ENGINEERED METAL BUILDING	SF	19678		
148	211313, 211316	FIRE SUPPRESSION	SF	19678		
149	224200	WC-1 FLOOR MOUNTED FLUSH VALVE WATER CLOSET (ADA)	EA	5		
150	224200	WC-2 FLOOR MOUNTED FLUSH VALVE WATER CLOSET	EA	5		
151	224200	UR-1 URINAL	EA	3		
152	224200	LAV-1 - DROP IN LAVORATORY	EA	7		
153	224200	SK-1 DOUBLE BOWL DROP-IN SINK	EA	1		
154	224200	SK-4 SINGLE BOWL DROP-IN SINK (ADA)	EA	2		
155	224200	EW-1 -EYE WASH STATION	EA	1		
156	224200	MSB-1 MOP SERVICE BASIN	EA	2		
157	224200	SH-1 SHOWER	EA	1		
158	224200	EWC-1 ELECTRIC WATER COOLER (ADA) SINGLE	EA	1		
159	224200	EWC-2 ELECTRIC WATER COOLER (ADA)	EA	1		
160	224200	IMB-1 ICE MAKER BOX	EA	7		
161	224200	FPHB-1 FREEZEPROOF WALL HYDRANT	EA	6		
162	224200	FPHB-2 FREEZEPROOF WALL HYDRANT (DUAL TEMP)	EA	1		
163	224200	FPRH-1 FREEZEPROOF ROOF HYDRANT	EA	1		
164	223400	WH-1 WATER HEATER	EA	1		
165	223400	WH-2 WATER HEATER	EA	1		
166	221116	CIRC PUMP SYSTEM AND PIPING	EA	2		
167	221116	DCV-1 DOUBLE CHECK VALVE BACKFLOW PREVENTER 3"	SYS	1		
168	221116	DCV-2 DOUBLE CHECK VALVE BACKFLOW PREVENTER	SYS	1		
169	221316	YCO-1 YARD CLEANOUT	EA	4		
170	221316	WCO-1 WALL CLEANOUT	EA	2		
171	224200	FLOOR DRAIN	EA	16		
172	224200	FS-1 FLOOR SINK	EA	1		
173	224200	FCO-1 FLOOR CLEAN OUT	EA	4		
174	224200	TD-1 TRENCH DRAIN	EA	1		
175	224200	OI-1 OIL INTERCEPTOR	EA	1		
176	221316	SANITARY PIPING	SYS	1		
177	221116	DOMESTIC PIPING	SYS	1		
178	221414	ROOF DRAIN SYSTEM	SYS	1		
179	230000	COMPLETE MECHANICAL SYSTEM	SYS	1		
180	265200	A 2X4 RECESSED, 4000L	EA	66		
181	265200	AE 2X4 RECESSED, 4000L, INTERGRAL BATTERY	EA	19		
182	265200	B 2X2 RECESSED, 3200L	EA	33		
183	265200	BE 2X2 RECESSED, 3200L, INTEGRAL BATTERY	EA	5		
184	265200	D4 4" LED DOWNLIGHT, 2000L	EA	14		
185	265200	D4E 4" LED DOWNLIGHT, 2000L, INTEGRAL BATTERY	EA	1		
186	265200	D6 6" LED DOWNLIGHT, 2500L	EA	35		
187	265200	D6E 6" LED DOWNLIGHT, 2500L, INTEGRAL BATTERY	EA	23		
188	265200	EM 20W LED MULLION MOUNTED EMERGENCY FIXTURE	EA	1		
189	265200	F 8W LED SPOT LIGHT MOUNTED DIRECTLY TO JUNCTION BOX.	EA	2		
190	265200	L1 5.6W/FT RECESSED LINEAR FIXTURE (7' 2-1/4" LENGTH)	EA	2		
191	265200	L2 5.6W/FT RECESSED LINEAR FIXTURE (15' 5-1/4" LENGTH)	EA	2		
192	265200	L3E 5.6W/FT RECESSED LINEAR FIXTURE (23' 3/8" LENGTH). PROVIDE (3) EM AS INDICATED ON PLANS.	EA	2		
193	265200	P6 6' LED UP/DOWN PENDANT FIXTURE	EA	1		
194	265200	P8 8' LED UP/DOWN PENDANT FIXTURE	EA	1		
195	265200	P20 20' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES	EA	4		
196	265200	P24 24' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES	EA	4		
197	265200	P40 40' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES PER PLANS.	EA	10		
197B	265200 / 098436	40'-0" CEILING BAFFLES - MATCH MATERIAL AND SIZE OF PENDANT LIGHT P40.	EA	8		
198	265200	S4 4' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT	EA	5		
199	265200	S4E 4' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT, EM	EA	5		
200	265200	S8 8' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT	EA	2		
201	265200	ST 4' LED STRIP LIGHT 4100L (6.5W/FT)	EA	10		
202	265200	STE 4' LED STRIP LIGHT 4100L, INTEGRAL BATTERY	EA	3		
203	265200	T-18000 LUMEN LED POLE LIGHT (PROVIDE 20' POLE AND 3' POLE BASE)	EA	15		

204	265200	W WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET.	EA	14		
205	265200	WE WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET	EA	2		
206	265200	WL 22' WALL WASH LED FIXTURE, 795 LM/FT	EA	1		
207	265200	WW 4" LED WALL WASH DOWNLIGHT, 1000L	EA	3		
208	265200	XC1 LED RED EXIT SIGN, SINGLE FACE, CEILING MOUNT	EA	5		
209	265200	XC2 LED RED EXIT SIGN, DOUBLE FACE, CEILING MOUNT	EA	4		
210	265200	XW1 LED RED EXIT SIGN, SINGLE FACE, WALL MOUNT	EA	8		
211	260000	POWER SYSTEM	SYS	1		
212	283111	FIRE ALARM SYSTEM	SF	19678		
213	202(A)	UNCLASSIFIED EXCAVATION	CY	2205		
214	202(D)	UNCLASSIFIED BORROW	CY	1315		
215	205(A)	TYPE A-SALVAGED TOPSOIL	CY	274		
216	220	SWPPP DOCUMENTATION	LSUM	1		
217	230(A)	SOLID SLAB SODDING	SY	2445		
218	231(A)	TREES	EA	2		
219	240(A)	REMOVING TREES 6" TO 12" IN DIAMETER	EA	2		
220	303(A)	AGGREGATE BASE TYPE A	CY	1257		
221	310(B)	SUBGRADE, METHOD B	SY	4092		
222	325	SEPARATOR FABRIC	SY	4223		
223	414(B)	DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	SY	3595		
224	414(G)	P.C. CONCRETE FOR PAVEMENT	CY	601		
225	601(A)	TYPE I PLAIN RIPRAP	TON	6		
226	609	(PL) PARKING BLOCK	EA	54		
227	609(A)	COMBINED CURB AND GUTTER (6" BARRIER)	LF	602		
228	610(A)	4" CONCRETE SIDEWALK	SY	839		
229	613(A)	24" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	42		
230	613(I)	8" NON-PERF. PIPE UNDERDRAIN RND.	LF	421		
231	613(L)	24" PREFAB. CULVERT END SEC., ROUND	EA	2		
232	613(Q)	OUTLET LATERAL HEADWALL	EA	2		
233	619(B)	REMOVAL OF FENCE	LF	10		
234	619(B)	REMOVAL OF ASPHALT PAVEMENT	SY	1229		
235	619(B)	REMOVAL OF EXISTING STRUCTURES	EA	1		
236	619(B)	REMOVAL OF EXISTING PIPE	LF	49		
237	624	(PL) WOOD PRIVACY FENCE W/ GATE	LF	39		
238	850(A)	SHEET ALUMINUM SIGNS	SF	7		
239	851(C)	1.5" SQUARE TUBE POST	LF	40		
240	851(C)	2" SQUARE TUBE POST	LF	10		
241	856(A)	TRAFFIC STRIPE (PLASTIC)(4" WIDE)	LF	1334		
242	856(B)	TRAFFIC STRIPE (PLASTIC)(SYMBOLS)	EA	4		
243	SPECIAL	12"X12" LANDSCAPING AREA INLET	EA	1		
244	SPECIAL	DOWNSPOUT ADAPTER	EA	7		
245	SPECIAL	CURB RAMP	EA	2		
246	COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14 (RJ)	LF	140		
247	COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)	EA	3		
248	COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	EA	2		
249	COT 312	6 INCH X 3 INCH DUCTILE IRON TEE (RJ)	EA	1		
250	COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	EA	1		
251	COT 313	6" SANITARY SEWER LINE	LF	113		
252	COT 315	3 INCH WATER SERVICE CONNECTION (LONG)	EA	1		
253	COT 315	3 INCH COMPOUND WATER METER	EA	1		
254	COT 315	3 INCH WATER METER VAULT	EA	1		
255	COT 317	6 INCH GATE VALVE (RJ)	EA	1		
256	COT 318	VALVE BOX	EA	1		
257	SPECIAL	POWER SERVICE CONNECTION (4" CONDUIT)	LF	271		
258	019113	HVAC GENERAL COMMISSIONING	EA	1		
TOTAL BASE BID						\$170,000.00

ALTERNATE 1

300	032000/033000	REINFORCED CONCRETE GENERATOR PAD	CY	9		
301	263213.13	GENERATOR	EA	1		
TOTAL ALTERNATE 1						

ALTERNATE 2

302	123553.19	OPEN SHELVING UNIT 42X85X18	EA	2		
303	123553.19	SINK BASE CABINET - 39x34x24	EA	1		
304	123553.19	SINK BASE CABINET - 36x34x24	EA	1		
305	123553.19	ACCESS PANEL	EA	2		
306	123553.19	2 DRAWER + 2 DOOR BASE CABINET - 30x34x24	EA	4		
307	123553.19	2 DRAWER + 2 DOOR BASE CABINET - 36x34x24	EA	3		
308	123553.19	4 DRAWER BASE CABINET - 15x34x24	EA	2		
309	123553.19	4 DRAWER BASE CABINET - 18x34x24	EA	6		
310	123553.19	CORNER BASE CABINET WITH LAZY SUZAN - APPROX 36x34x36	EA	1		
311	123553.19	OPEN BASE CABINET - 36X	EA	2		
312	123553.19	2 SLIDING DOOR UPPER CABINET - 36x30x15	EA	6		
313	123553.19	3 DRAWER CABINET - 30X30X34 FOR COUNTERTOP FREEZER	EA	1		

314	123553.19	OPEN SHELF CORNER UNIT - APPROX 36X30x15	EA	1		
315	123553.19	DRYING RACK - WITH TRAY 30X36	EA	1		
316	123553.19	ADJUSTABLE SHELVING	LF	5		
317	123553.19	36" DEEP RESIN COUNTERTOP WITH FRONT LIP	LF	11		
318	123553.19	30" DEEP RESIN COUNTERTOP WITH FRONT LIP	LF	24		
319	123553.19	30" TO 36" TRANSITION RESIN COUNTERTOP AT CORNER	LF	5		
320	123553.19	4" HIGH BACKSPLASH	LF	40		
321	123553.19	RESIN ISLAND COUNTERTOP WITH FRONT LIP - 49"	LF	9		
322	224200	SK-2 SINGLE BOWL DROP-IN SINK	EA	1		
323	224200	SK-3 SINGLE BOWL DROP-IN SINK (ADA)	EA	1		
324	224200	EWS-1 EYE WASH STATION	EA	1		
325	260000	ELECTRICAL POWER AT LAB	SYS	1		
326	115329	4' FUME HOOD SYSTEM WITH DUCTWORK	EA	1		
TOTAL ALTERNATE 2						

ALTERNATE 3

327	095123	9.ACT 2.2 - ACOUSTICAL CEILING TILES AND GRID (HIGH ACOUSTICS)	SF	5567		
TOTAL ALTERNATE 3						

ALTERNATE 4

328	202(A)	UNCLASSIFIED EXCAVATION	CY	1403		
329	202(D)	UNCLASSIFIED BORROW	CY	351		
330	205(A)	TYPE A-SALVAGED TOPSOIL	CY	26		
331	230(A)	SOLID SLAB SODDING	SY	232		
332	303(A)	AGGREGATE BASE TYPE A	CY	590		
333	310(B)	SUBGRADE, METHOD B	SY	3905		
334	325	SEPARATOR FABRIC	SY	3916		
335	411(C)	SUPERPAVE, TYPE S4 PG (64-22)	TON	401		
336	411(C)	SUPERPAVE, TYPE S3 PG (64-22)	TON	802		
337	601(A)	TYPE I PLAIN RIPRAP	TON	11		
338	609(A)	COMBINED CURB AND GUTTER (6" BARRIER)	LF	581		
339	611(G)	INLET CI DES. 2 (STD)	EA	2		
340	613(A)	18" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	LF	172		
341	613(L)	18" PREFAB. CULVERT END SEC., ROUND	EA	2		
342	850(A)	SHEET ALUMINUM SIGNS	SF	4		
343	851(C)	1.5" SQUARE TUBE POST	LF	20		
344	851(C)	2" SQUARE TUBE POST	LF	5		
345	856(A)	TRAFFIC STRIPE (PLASTIC)(4" WIDE)	LF	1846		
346	856(B)	TRAFFIC STRIPE (PLASTIC)(SYMBOLS)	EA	2		
347	SPECIAL	CURB RAMP	EA	1		
TOTAL ALTERNATE 4						

ALTERNATE 5

348	113200	11.CM - COFFEE MAKER INSTALLATION	EA	5		
349	113200	11.DW - DISHWASHER (BREAKROOM AND LAB)	EA	2		
350	113200	11.IM - COUNTERTOP ICEMAKER	EA	1		
351	113200	11.MWC - MICROWAVE	EA	3		
352	113200	11.RANGE - RANGE AND RANGE HOOD	EA	1		
353	113200	11.REF1 - REFRIGERATOR - BREAKROOMS	EA	3		
354	113200	11.REF2 - REFRIGERATOR (LAB)	EA	2		
355	113200	11.REF3 - UNDERCOUNTER REFRIGERATOR (LACTATION ROOM)	EA	1		
356	113200	COUNTER TOP FREEZER (LAB)	EA	1		
TOTAL ALTERNATE 5						

ALTERNATE 6

357	SPECIAL	300 GALLON AQUARIUM	EA	1		
TOTAL ALTERNATE 6						

BASE BID (ITEMS 1 - 258)**ADD ALT #1****ADD ALT #2****ADD ALT #3****ADD ALT #4****ADD ALT #5****ADD ALT #6****BASE BID PLUS ADDITIVE ALTERNATES**

\$	170,000.00
\$	-
\$	-
\$	-
\$	-
\$	-
\$	-
\$	170,000.00

Enclosed is a () Bidder's Surety Bond, () Certified Check, () Cashier's Check for

_____ %

which the City of Tulsa may retain or recover as liquidated damages in the event that the undersigned fails to enter into contract for the work covered by this proposal., provided the Contract is awarded to the undersigned within thirty (30) days, or within ninety (90) days if Federal funds are utilized, from the date fixed for opening of bids and the undersigned fails to execute said Contract and furnish the required bonds and other requirements as called for in these Contract Documents within thirty (30) days after award of Contract.

Dated at Tulsa, Oklahoma, this _____ day of _____, 20__.

Respectfully submitted,

(Complete legal name of company)

(State of Organization)

By:

Title:

Printed Name:

ATTEST:

Title: Corporate Secretary

Printed Name:

(SEAL)

Address: _____

Telephone Number: _____

Fax Number: _____

By signing above the bidder acknowledges receipt of the following Addenda (give number and date of each):

**SECTION 102600
WALL AND DOOR PROTECTION**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Corner guards.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes.
- B. Samples for Initial Selection: For each type of impact-resistant wall-protection unit indicated, in each color and texture specified.
 - 1. Include Samples of accent strips and accessories to verify color selection.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of wall and door protection product to include in maintenance manuals.
 - 1. Include recommended methods and frequency of maintenance for maintaining best condition of plastic covers under anticipated traffic and use conditions. Include precautions against using cleaning materials and methods that may be detrimental to finishes and performance.

1.4 QUALITY ASSURANCE

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain wall- and door-protection products of each type from single source from single manufacturer.

2.2 CORNER GUARDS

- A. Surface-Mounted, Metal Corner Guards: Fabricated as one piece from formed or extruded metal with formed edges; with 90- or 135-degree turn to match wall condition.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Construction Specialties or an approved comparable product by one of the

Stormwater Maintenance and Operations Building

06/06/2025

102600 - WALL AND DOOR PROTECTION

1

following:

- a. JL Industries; Activar Construction Products Group, Inc.
 - b. Koroseal Interior Products, LLC
2. Material:
- a. Extruded aluminum, minimum **0.0625 inch** thick, with powder coded finish.
3. Wing Size: Nominal 2 by 2 inches.
4. Corner Radius: **1/8 inch**.
5. Mounting: Flat-head, countersunk screws through factory-drilled mounting holes.

2.3 MATERIALS

- A. Fasteners: Aluminum, nonmagnetic stainless-steel, or other noncorrosive metal screws, bolts, and other fasteners compatible with items being fastened. Use security-type fasteners where exposed to view.
- B. Adhesive: As recommended by protection product manufacturer.

2.4 FABRICATION

- A. Fabricate wall and door protection according to requirements indicated for design, performance, dimensions, and member sizes, including thicknesses of components.
- B. Factory Assembly: Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.
- C. Quality: Fabricate components with uniformly tight seams and joints and with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

2.5 FINISHES

- A. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine walls to which wall and door protection will be attached for blocking, grounds,

Stormwater Maintenance and Operations Building

06/06/2025

102600 - WALL AND DOOR PROTECTION

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and other solid backing that have been installed in the locations required for secure attachment of support fasteners.

1. For wall and door protection attached with adhesive, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Complete finishing operations, including painting, before installing wall and door protection.
- B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

- A. Installation Quality: Install wall protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.

3.4 CLEANING

- A. Immediately after completion of installation, clean plastic covers and accessories using a standard ammonia-based household cleaning agent.
- B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 102600

CSI Form 1.5C

SUBSTITUTION REQUEST (During the Bid Period)

Project: Stormwater Maintenance and Operations Building Substitution Request Number: 002
From: Lakewood Cabinetry, Inc.
To: Bobby Edwards - Ascend Commercial Builders Date: 7/29/2025
A/E Project Number: SW23-01-01
Re: _____ Contract For: Millwork
Specification Title: Architectural Wood Casework Description: Panel core material
Section: 064100 Page: 281 Article/Paragraph: 2.2 - B - 1 (Plans A6-01, A6-02)

Proposed Substitution: Substitute specified MDF core material in the specifications and casework detail pages for more economical IPB

Manufacturer: Lakewood Cabinetry Address: 36775 S. Hwy 82 Langley, OK 74350 Phone: 918 - 782 - 2203
Trade Name: _____ Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Nathan Cassity

Signed by: Nathan Cassity

Firm: Lakewood Cabinetry, Inc.

Address: 36775 S. Hwy 82 Langley, OK 74350

Telephone: 918 - 782 - 2203

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
☒ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by:  Date: 8/7/25

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____



Advancement
of Construction
Technology

SUBSTITUTION REQUEST

(During the Bidding Phase)

Project: Stormwater Maintenance and Operations Building Substitution Request Number: _____

From: Smith Lighting Sales, Inc.
To: City of Tulsa Date: July 17th, 2025

Re: LED Interior & Exterior Lighting A/E Project Number: _____
Contract For: _____

Specification Title: LED Interior & Exterior Lighting Description: LED Interior & Exterior Lighting
Section: 265600 & 265619 Page: _____ Article/Paragraph: _____

Proposed Substitution: Type(s): F

Manufacturer: ABOVE ALL

Address: _____ Phone: _____
Trade Name: Electrical Model No.: Refer to attached product data link.

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Smith Lighting Sales, Inc.
Signed by: Sarah James
Firm: Smith Lighting Sales, Inc.
Address: 1221 East 33rd Street Tulsa, OK 74105
Telephone: 918.978.8564

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
☒ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
☐ Substitution rejected - Use specified materials.
Substitution Request received too late - Use specified materials.

**Products to be
submitted must meet or
exceed performance
criteria scheduled on the
drawings.**

B. Miles

8/12/25

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Phase)



PROJECT: Stormwater Maint.
& Operations Bldg.
TO: BKL Inc. Eng.
& Arch.
RE: Metal Building Supplier

SUBSTITUTION REQUEST NUMBER: _____
FROM: Lonnie Ruten
DATE: 8/1/25
A/E PROJECT NUMBER: SW23-01-01
CONTRACT FOR: _____

SPECIFICATION TITLE: Metal Building Sys. DESCRIPTION: MB Supplier
SECTION: 133419 PAGE: 6 ARTICLE/PARAGRAPH: 2.3

PROPOSED SUBSTITUTION: Steel Tech Bldg. Sys.
MANUFACTURER: Steel Tech Bldg. Sys. PHONE: 580-430-1350
TRADE NAME: Steel Tech Bldg. Sys. MODEL NO.: www.steeltech.build

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Lonnie Ruten
SIGNED BY: Lonnie A. Ruten
FIRM: Steel Tech Bldg. Sys.
ADDRESS: 511 S. Kyler St.
TELEPHONE: 580-430-1350

A/E's REVIEW AND RECOMMENDATION:

- ☐ Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☒ Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Reject Substitution—Use specified materials.
- ☐ Substitution Request received too late—Use specified materials.

Products to be submitted must meet or exceed performance criteria scheduled on the drawings.

SIGNED BY: By Miles DATE: 8/8/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Phase)



PROJECT:	Stormwater Maint. & Operations Bldg.		SUBSTITUTION REQUEST NUMBER:		
TO:	BKL Inc.		FROM:	Lonnie Roten	
	Eng. & Arch.		DATE:	8/1/25	
RE:	Panel Gauges & Panel Profiles		A/E PROJECT NUMBER:	SW23-01-01	
			CONTRACT FOR:		
SPECIFICATION TITLE:	Arc-Engineered Metal Bldg.		DESCRIPTION:	Metal Roof & Wall Panels	
SECTION:	133419	PAGE:	10-11	ARTICLE/PARAGRAPH:	2.5 & 2.6
PROPOSED SUBSTITUTION:	Metal Wall 24ga. PBL & Metal Roof Batten-Lok 24ga 16 W.12				
MANUFACTURER:	MBCF		PHONE:	580-430-1350	
TRADE NAME:	Roof & Wall Panels		MODEL NO.:		
Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified. Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.					
The Undersigned certifies:					
<ul style="list-style-type: none">• Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.• Same warranty will be furnished for proposed substitution as for specified product.• Same maintenance service and source of replacement parts, as applicable, is available.• Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.• Proposed substitution does not affect dimensions and functional clearances.• Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.					
SUBMITTED BY:	Lonnie Roten				
SIGNED BY:	Lonnie A. Roten				
FIRM:	Steel Tech Bldg. Sys.				
ADDRESS:	511 S. Kyler St.				
TELEPHONE:	580-430-1350				
A/E's REVIEW AND RECOMMENDATION:					
<input type="checkbox"/> Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.					
<input type="checkbox"/> Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.					
<input checked="" type="checkbox"/> Reject Substitution—Use specified materials.					
<input type="checkbox"/> Substitution Request received too late—Use specified materials.					
SIGNED BY:	B. Miles			DATE:	8/8/25
SUPPORTING DATA ATTACHED:	<input type="checkbox"/> Drawings <input type="checkbox"/> Product Data <input type="checkbox"/> Samples <input type="checkbox"/> Tests <input type="checkbox"/> Reports <input type="checkbox"/>				

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Phase)



PROJECT: Stormwater Maint. & Operations Bldg. SUBSTITUTION REQUEST NUMBER: _____
 TO: BKL Inc. Eng. & Arch. FROM: Lonnie Roten
 RE: Panel Gauges & Panel Profile DATE: 8/1/25
 A/E PROJECT NUMBER: SW 23-01-01
 CONTRACT FOR: _____

SPECIFICATION TITLE: Metal Building Sys. DESCRIPTION: Roof Panels & Wall Panels
 SECTION: 133419 PAGE: 10-11 ARTICLE/PARAGRAPH: 2.5 & 2.6

PROPOSED SUBSTITUTION: Central States - Central Span 24 ga.
 MANUFACTURER: Central States Manu. PHONE: _____
 TRADE NAME: Central Span MODEL NO.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.
 Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

SUBMITTED BY: Lonnie Roten
 SIGNED BY: [Signature]
 FIRM: Steel Tech Bldg. Sys.
 ADDRESS: 511 S. Kyler St.
 TELEPHONE: 580-430-7350


A/E's REVIEW AND RECOMMENDATION:

- ☐ Approve Substitution—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☐ Approve Substitution as noted—Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- ☒ Reject Substitution—Use specified materials.
- ☐ Substitution Request received too late—Use specified materials.

SIGNED BY: [Signature] DATE: 8/8/25

SUPPORTING DATA ATTACHED: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

PAY ITEM SCHEDULE - BASE BID CONT.					
ITEM NUMBER	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
54	081113, 081416, 087100	TYPE A -36" WOOD DOOR, H.M. FRAME, AND HARDWARE	1, 3, 20	EA	32
55	081113, 087100	TYPE A -PAIR 36" H.M. DOORS, H.M. FRAME, AND HARDWARE	1, 3, 20	EA	4
56	081113, 081416, 087100	TYPE A -PAIR 36" WOOD DOORS, H.M. FRAME, AND HARDWARE	1, 3, 20	EA	6
57	081113, 087100, 088000	TYPE B - H.M. DOOR, H.M. FRAME, AND HARDWARE - W/LITE	1, 3, 20	EA	9
58	081113, 087100	FEMA DOOR, H.M. FRAME, AND HARDWARE	1, 3	EA	2
59	084113, 087100, 088000	PAIR AL FRAME DOOR WITH GLASS, AL FRAME, AND HARDWARE	1, 3, 20	EA	3
60	084113/088000	ALUM. STOREFRONT AND GLAZING	1, 2	SF	962
61	083613	OVERHEAD SECTIONAL DOOR	1, 3	EA	1
62	092216/092900	P1 - PARTITION	1, 4	SF	1,327
63	092216/092900	P1A - PARTITION	1, 4	SF	6,573
64	092216/092900	P1AF - PARTITION	1, 4	SF	4,526
65	092216/092900	P1F - PARTITION	1, 4	SF	409
66	092216/092900	P2 - PARTITION	1, 4	SF	2,093
67	092216/092900	P2A - PARTITION	1, 4	SF	305
68	092216/092900	P3FT - PARTITION	1, 4	SF	762
69	092216/092900	P4TT - PARTITION	1, 4	SF	265
70	092216/092900	P5A - PARTITION	1, 4	SF	249
71	092216/092900	P5AF - PARTITION	1, 4	SF	1,396
72	092216/092900	P6 - PARTITION	1, 4	SF	6,286
73	092216/092900	P6A - PARTITION	1, 4	SF	642
74	092216/092900	P6F - PARTITION	1, 4	SF	1,256
75	092216/092900	P6AF - PARTITION	1, 4	SF	42
76	092216/092900	P7T - PARTITION	1, 4	SF	34
77	092216/092900	P7AT - PARTITION	1, 4	SF	142
78	092216/092900	P7TAF - PARTITION	1, 4	SF	183
79	092216/092900	P11AF - PARTITION	1, 4	SF	432
80	092216/092900	P12AF - PARTITION	1, 4	SF	179
81	092216/092900	GYP BD CEILINGS	1, 4	SF	1,374
82	093013	9.CT1 - PORCELAIN TILE (RESTROOM AND ENTRY FLOOR)	1, 8	SF	1,914
83	093013	9.CT2 -PORCELAIN TILE (EXTERIOR TILE)	1, 8	SF	1,249
84	093013	9.CT3 - PORCELAIN TILE (FLOORS)	1, 8	SF	733
85	093013	9.CT3 - PORCELAIN TILE (BASE)	1, 8	SF	367
86	093013	9.CT3 - PORCELAIN TILE (RESTROOM WALLS)	1, 8	SF	1,622
87	093013	9.CT4 - PORCELAIN TILE (ACCENT AT RESTROOM WALLS)	1, 8	SF	42
88	093013	9.CT5 - PORCELAIN TILE (BACKSPLASHES AND RECEPTION ACCENT)	1, 8	SF	215
89	095123	9.ACT1.2 - ACOUSTICAL CEILING TILES AND GRID	1, 7	SF	4,253
90	095123	9.ACT 2.2 - ACOUSTICAL CEILING TILES AND GRID (HIGH ACOUSTICS)	1, 7	SF	5,659
90B	095124	9.ACT3.2 - ACOUSTICAL CEILING TILES AND GRID (HIGH HUMIDITY)	1, 7	SF	427
91	096513	9.RB1 - RUBBER BASE	1, 9	LF	2,989
92	096813	9.CPT1 - CARPET TILES - OFFICES	1, 10	SY	749
93	097200	VINYL WALL COVERING AT MUD ROOM	1	SF	185
94	098433	9.AWP1, 9.AWP3, AND 9.AWP4 - ACOUSTICAL WALL PANELS	1	SF	1,160
95	098433	9.AWP2 - ACOUSTICAL WALL PANELS WITH WOOD SLATS	1	SF	2,555
96	099133	PAINT - EXTERIOR STEEL CANOPY	1, 6	SYS	2
97	099123	PAINT - GYP WALLS	1, 6	SF	41,738
98	099123	PAINT - GYP CEILING	1, 6	SF	1,527
99	099123	PAINT - EXP CEILING	1, 6	SF	5,567
100	101100	10.MB9648 - MARKERBOARD 96" X 48"	1	EA	8
101	101100	MARKERBOARD MARKER KITS	1	EA	4
102	101416	PLAQUES	1	EA	1
103	101419	BUILDING SIGNAGE - DIMENSIONAL LETTERS	1	SYS	1
104	101419	DECORATIVE CONFERENCE ROOM SIGNAGE	1	SYS	1
105	101423	EVACUATION SIGNAGE	1	EA	15
106	101423	ROOM ID SIGNAGE	1	EA	13
107	101423	ROOM ID SIGNAGE WITH INSERT	1	EA	23
108	101423	CONFERENCE ROOM SIGNAGE	1	EA	8

STORM WATER MAINTENANCE AND OPERATIONS BUILDING					
PROJECT NO. SW23-01-01					
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT					
PLANS & ESTIMATES PREPARED BY:					
BKL, INCORPORATED ENGINEERS & ARCHITECTS					
GREEN ACORN MECHANICAL, ELECTRICAL, & PLUMBING					
PLAN SCALE:	DRAWN BY:	BKL	4/25	APPROVED:	
N/A	DESIGNED BY:	BKL	4/25		
	SURVEY BY:	TLS	9/24		
PROFILE SCALE	PROJ. MGR.				
HORIZONTAL:	LEAD ENGR.				
N/A	FIELD MGR.				
VERTICAL:	RECOMMENDED:				
N/A	DESIGN MANAGER	F.R.		CITY ENGINEER	
FILE:	DRAWING:			DATE	
ATLAS PAGE NO:					
SHEET NAME:				SHEET NO.	
PAY QUANTITIES & NOTES				G0-03	

PAY ITEM SCHEDULE - BASE BID CONT.					
ITEM NUMBER	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
147	133419	NEW PRE-ENGINEERED METAL BUILDING	1, 21	SF	19,678
148	211313, 211316	FIRE SUPPRESSION	1	SF	19,678
149	224200	WC-1 FLOOR MOUNTED FLUSH VALVE WATER CLOSET (ADA)	1, 14	EA	5
150	224200	WC-2 FLOOR MOUNTED FLUSH VALVE WATER CLOSET	1, 14	EA	5
151	224200	UR-1 URINAL	1, 14	EA	3
152	224200	LAV-1 - DROP IN LAVORATORY	1, 13	EA	7
153	224200	SK-1 DOUBLE BOWL DROP-IN SINK	1, 13	EA	1
154	224200	SK-4 SINGLE BOWL DROP-IN SINK (ADA)	1, 13	EA	2
155	224200	EW-1 -EYE WASH STATION	1, 13	EA	1
156	224200	MSB-1 MOP SERVICE BASIN	1, 13	EA	2
157	224200	SH-1 SHOWER	1, 13	EA	1
158	224200	EW-1 ELECTRIC WATER COOLER (ADA) SINGLE	1, 13	EA	1
159	224200	EW-2 ELECTRIC WATER COOLER (ADA)	1, 13	EA	1
160	224200	IMB-1 ICE MAKER BOX	1	EA	7
161	224200	FPHB-1 FREEZEPROOF WALL HYDRANT	1	EA	6
162	224200	FPHB-2 FREEZEPROOF WALL HYDRANT (DUAL TEMP)	1	EA	1
163	224200	FPRH-1 FREEZEPROOF ROOF HYDRANT	1	EA	1
164	223400	WH-1 WATER HEATER	1	EA	1
165	223400	WH-2 WATER HEATER	1	EA	1
166	221116	CIRC PUMP SYSTEM AND PIPING	1	EA	2
167	221116	DCV-1 DOUBLE CHECK VALVE BACKFLOW PREVENTER 3"	1	SYS	1
168	221116	DCV-2 DOUBLE CHECK VALVE BACKFLOW PREVENTER	1	SYS	1
169	221316	YCO-1 YARD CLEANOUT	1	EA	4
170	221316	WCO-1 WALL CLEANOUT	1	EA	2
171	224200	FLOOR DRAIN	1	EA	16
172	224200	FS-1 FLOOR SINK	1	EA	1
173	224200	FCO-1 FLOOR CLEAN OUT	1	EA	4
174	224200	TD-1 TRENCH DRAIN	1	EA	1
175	224200	OI-1 OIL INTERCEPTOR	1	EA	1
176	221316	SANITARY PIPING	1	SYS	1
177	221116	DOMESTIC PIPING	1	SYS	1
178	221414	ROOF DRAIN SYSTEM	1	SYS	1
179	230000	COMPLETE MECHANICAL SYSTEM	1, 15	SYS	1
180	265200	A 2X4 RECESSED, 4000L	19	EA	66
181	265200	AE 2X4 RECESSED, 4000L, INTERGRAL BATTERY	19	EA	19
182	265200	B 2X2 RECESSED, 3200L	19	EA	33
183	265200	BE 2X2 RECESSED, 3200L, INTEGRAL BATTERY	19	EA	5
184	265200	D4 4" LED DOWNLIGHT, 2000L	19	EA	14
185	265200	D4E 4" LED DOWNLIGHT, 2000L, INTEGRAL BATTERY	19	EA	1
186	265200	D6 6" LED DOWNLIGHT, 2500L	19	EA	35
187	265200	D6E 6" LED DOWNLIGHT, 2500L, INTEGRAL BATTERY	19	EA	23
188	265200	EM 20W LED MULLION MOUNTED EMERGENCY FIXTURE	1, 11	EA	1
189	265200	F 8W LED SPOT LIGHT MOUNTED DIRECTLY TO JUNCTION BOX.	19	EA	2
190	265200	L1 5.6W/FT RECESSED LINEAR FIXTURE (7' 2-1/4" LENGTH)	18, 19	EA	2
191	265200	L2 5.6W/FT RECESSED LINEAR FIXTURE (15' 5-1/4" LENGTH)	18, 19	EA	2
192	265200	L3E 5.6W/FT RECESSED LINEAR FIXTURE (23' 3/8" LENGTH). PROVIDE (3) EM AS INDICATED ON PLANS.	18, 19	EA	2
193	265200	P6 6' LED UP/DOWN PENDANT FIXTURE	19	EA	1
194	265200	P8 8' LED UP/DOWN PENDANT FIXTURE	19	EA	1
195	265200	P20 20' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES	19	EA	4
196	265200	P24 24' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES	19	EA	4
197	265200	P40 40' LED PENDANT FIXTURE, 675 LM/FT DOWN, 530 LM/FT UP, 20' AIRCRAFT CABLE MOUNT, INTEGRAL BATTERIES PER PLANS.	19	EA	10
197B	265200 / 098436	40'-0" CEILING BAFFLES - MATCH MATERIAL AND SIZE OF PENDANT LIGHT P40.	1	EA	8
198	265200	S4 4' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT	19	EA	5
199	265200	S4E 4' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT, EM	19	EA	5
200	265200	S8 8' SURFACE MOUNTED LINEAR FIXTURE, 795LM/FT	19	EA	2
201	265200	ST 4' LED STRIP LIGHT 4100L (6.5W/FT)	19	EA	10
202	265200	STE 4' LED STRIP LIGHT 4100L, INTEGRAL BATTERY	19	EA	3

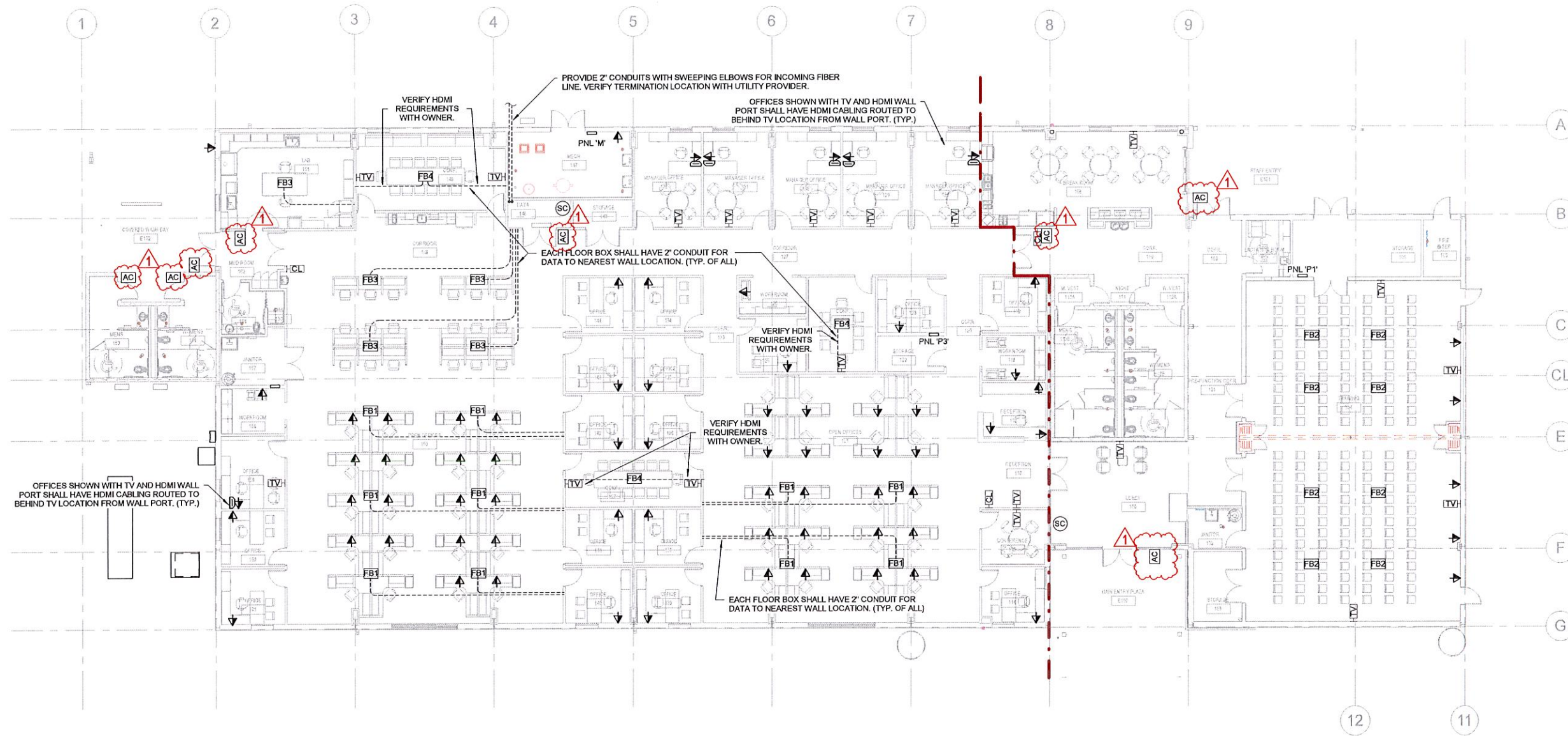
PAY ITEM SCHEDULE - BASE BID CONT.					
ITEM NUMBER	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
203	265200	T-18000 LUMEN LED POLE LIGHT (PROVIDE 20' POLE AND 3' POLE BASE)	12, 19	EA	15
204	265200	W WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET.	19	EA	14
205	265200	WE WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET	19	EA	2
206	265200	WL 22' WALL WASH LED FIXTURE, 795 LM/FT	19	EA	1
207	265200	WW 4" LED WALL WASH DOWNLIGHT, 1000L	19	EA	3
208	265200	XC1 LED RED EXIT SIGN, SINGLE FACE, CEILING MOUNT	19	EA	5
209	265200	XC2 LED RED EXIT SIGN, DOUBLE FACE, CEILING MOUNT	19	EA	4
210	265200	XW1 LED RED EXIT SIGN, SINGLE FACE, WALL MOUNT	19	EA	8
211	260000	POWER SYSTEM	16, 19, 20	SYS	1
212	283111	FIRE ALARM SYSTEM	19	SF	19,678
213	202(A)	UNCLASSIFIED EXCAVATION	E-2, E-3, E-4, R-1	CY	2,205
214	202(D)	UNCLASSIFIED BORROW	E-3, E-4, R-1	CY	1,315
215	205(A)	TYPE A-SALVAGED TOPSOIL	-	CY	274
216	220	SWPPP DOCUMENTATION	E-6, E-7	LSUM	1
217	230(A)	SOLID SLAB SODDING	E-10, E-11	SY	2,445
218	231(A)	TREES	G-7	EA	2
219	240(A)	REMOVING TREES 6" TO 12" IN DIAMETER	G-7	EA	2
220	303(A)	AGGREGATE BASE TYPE A	S-2, 105	CY	1,257
221	310(B)	SUBGRADE, METHOD B	-	SY	4,092
222	325	SEPARATOR FABRIC	S-3	SY	4,223
223	414(B)	DOWEL JOINTED P.C.C. PAVT. (PLACEMENT)	S-10, S-11, S-13	SY	3,595
224	414(G)	P.C. CONCRETE FOR PAVEMENT	S-10, S-11, S-12, S-13	CY	601
225	601(A)	TYPE I PLAIN RIPRAP	-	TON	6
226	609	(PL) PARKING BLOCK	-	EA	54
227	609(A)	COMBINED CURB AND GUTTER (6" BARRIER)	S-10, S-12, S-13, S-15, S-16	LF	602
228	610(A)	4" CONCRETE SIDEWALK	S-12, S-13, S-16, S-17	SY	839
229	613(A)	24" REINFORCED CONCRETE PIPE (RCP), COMPLETE IN PLACE	D-8, D-12, D-13, D-16	LF	42
230	613(I)	8" NON-PERF.PIPE UNDERDRAIN RND.	D-13	LF	421
231	613(L)	24" PREFAB. CULVERT END SEC., ROUND	-	EA	2
232	613(Q)	OUTLET LATERAL HEADWALL	D-14	EA	2
233	619(B)	REMOVAL OF FENCE	R-1, R-2	LF	10
234	619(B)	REMOVAL OF ASPHALT PAVEMENT	R-1, R-2	SY	1,229
235	619(B)	REMOVAL OF EXISTING STRUCTURES	E-1, R-1, R-2, R-3, R-4, R-5	EA	1
236	619(B)	REMOVAL OF EXISTING PIPE	R-1, R-2, R-3, R-5	LF	49
237	624	(PL) WOOD PRIVACY FENCE W/ GATE	102	LF	39
238	850(A)	SHEET ALUMINUM SIGNS	T-2	SF	7
239	851(C)	1.5" SQUARE TUBE POST	-	LF	40
240	851(C)	2" SQUARE TUBE POST	-	LF	10
241	856(A)	TRAFFIC STRIPE (PLASTIC)(4" WIDE)	T-3	LF	1,334
242	856(B)	TRAFFIC STRIPE (PLASTIC)(SYMBOLS)	T-3	EA	4
243	SPECIAL	12"X12" LANDSCAPING AREA INLET	104	EA	1
244	SPECIAL	DOWNSPOUT ADAPTER	101	EA	7
245	SPECIAL	CURB RAMP	-	EA	2
246	COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14 (RJ)	W-1, W-2, W-3, W-8, W-9, W-10, W-22, W-23, W-24, W-25, W-27, W-28, W-30, W-31	LF	140
247	COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)	W-2, W-8, W-12	EA	3
248	COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	W-2, W-8, W-12	EA	2
249	COT 312	6 INCH X 3 INCH DUCTILE IRON TEE (RJ)	W-2, W-8	EA	1
250	COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	W-2, W-8	EA	1
251	COT 313	6" SANITARY SEWER LINE	103	LF	113
252	COT 315	3 INCH WATER SERVICE CONNECTION (LONG)	W-15, W-16, W-22, W-23, W-28, W-28, W-30, W-31	EA	1
253	COT 315	3 INCH COMPOUND WATER METER	W-25	EA	1
254	COT 315	3 INCH WATER METER VAULT	W-25	EA	1
255	COT 317	6 INCH GATE VALVE (RJ)	W-8	EA	1
256	COT 318	VALVE BOX	W-21	EA	1
257	SPECIAL	POWER SERVICE CONNECTION (4" CONDUIT)	106	LF	271
258	019113	HVAC GENERAL COMMISSIONING	-	EA	1



STORMWATER MAINTENANCE AND OPERATIONS BUILDING			
PROJECT NO. SW23-01-01			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS & ESTIMATES PREPARED BY: BKL, INCORPORATED ENGINEERS & ARCHITECTS			
GREEN ACORN MECHANICAL, ELECTRICAL, & PLUMBING			
NO	REVISION	BY	DATE
1	ADDENDUM 3	BKL	08/14/24
PLAN SCALE: N/A		DRAWN BY: DESIGNED BY: SURVEY BY:	BKL 4/25 BKL 4/25 TLS 9/24
PROFILE SCALE:		PROJ. MGR.	
HORIZONTAL:		LEAD ENGR.	
VERTICAL:		FIELD MGR.	
		RECOMMENDED:	
		DESIGN MANAGER	
FILE:		DRAWING:	DATE:
ATLAS PAGE NO:			
SHEET NAME: PAY QUANTITIES & NOTES		SHEET NO. G0-04	



				PLAN SCALE:	DRAWN:	DB	APPROVED
NO	REVISION	BY	DATE		DESIGNED		
1	Addendum 2		8/7/2025	1/8" = 1'-0"	SURVEY		
				PROFILE SCALE	PROJ. MGR.		
					LEAD ENGR.		
				HORIZONTAL:	FIELD MGR.		
					RECOMMENDED:		
				VERTICAL:	DESIGN MANAGER		
				FILE:	DRAWING:		
				ATLAS PAGE NO.			
				SHEET NAME:			SHEET NO.
				ELECTRICAL POWER -			E2-03
				NORTH			

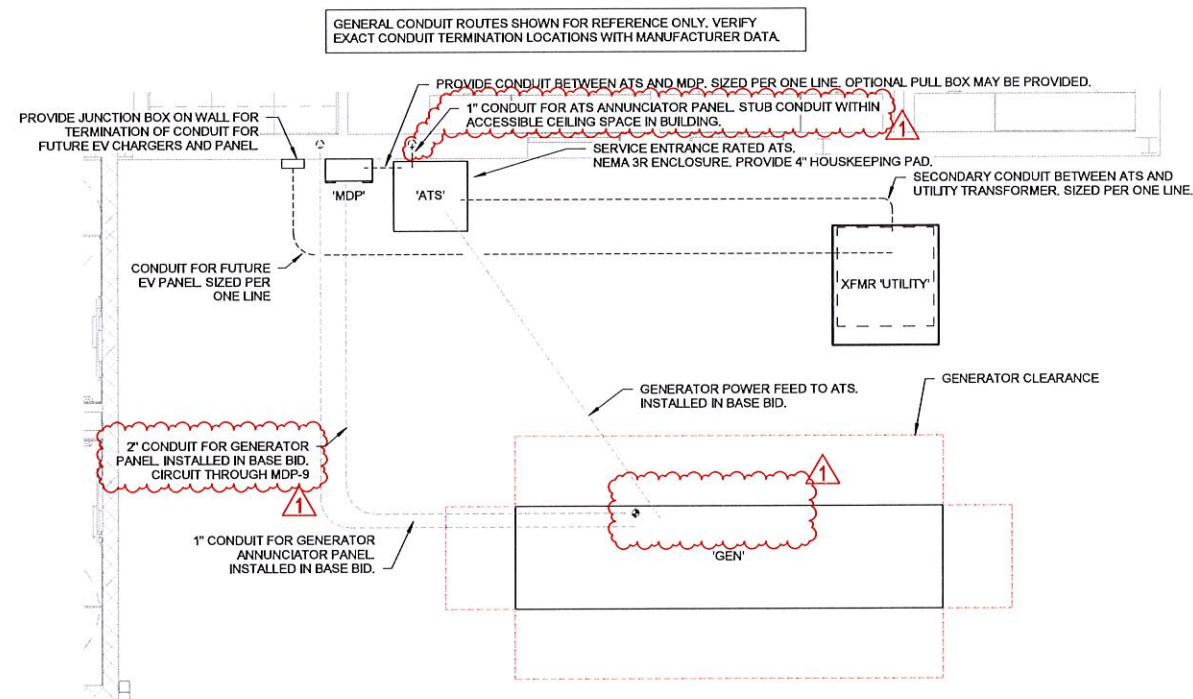


1 ELECTRICAL SYSTEMS PLAN
3/32" = 1'-0"

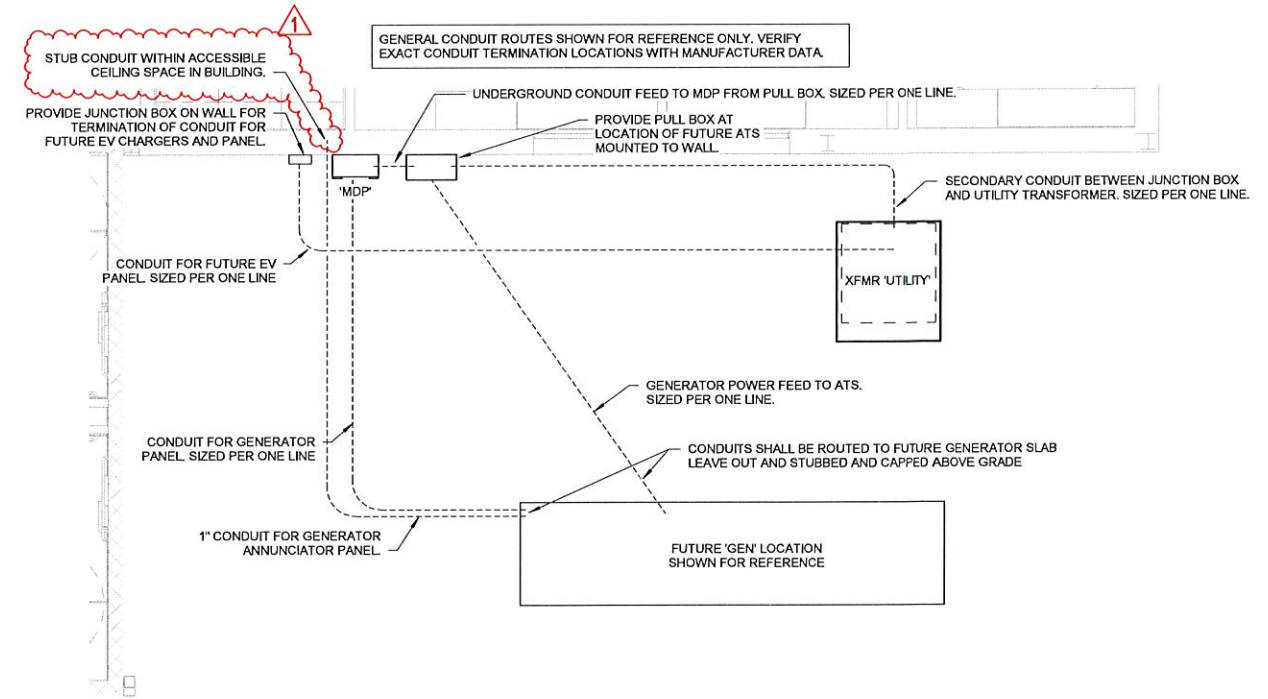
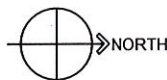
FLOOR BOX SCHEDULE						
TYPE	GANG 1	GANG 2	GANG 3	GANG 4	FINISH	DESCRIPTION
FB1	FURN. FEED	DATA	N/A	N/A	BLACK	LEGRAND EVOLUTION SERIES FURNITURE FEED. 1 POWER GANG, 1 DATA GANG (VERIFY QTY OF DATA WITH OWNER PRIOR TO INSTALLATION)
FB2	DUPLEX	DUPLEX	BLANK	BLANK	BLACK	LEGRAND EVOLUTION SERIES 4-GANG FLOOR BOX.
FB3	DUPLEX	DUPLEX	9" DATA	BLANK	BLACK	LEGRAND EVOLUTION SERIES 4-GANG FLOOR BOX.
FB4	DUPLEX	DUPLEX	4" DATA	HDMI	BLACK	LEGRAND EVOLUTION SERIES 4-GANG FLOOR BOX.



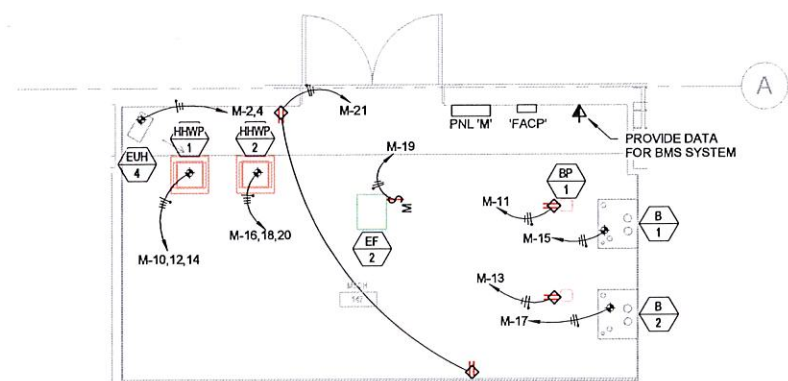
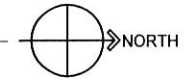
STORMWATER MAINTENANCE AND OPERATIONS BUILDING			
PROJECT NO. SW23-01-01			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY:			
BKL, INCORPORATED ENGINEERS & ARCHITECTS			
GREEN ACORN MECHANICAL, ELECTRICAL & PLUMBING			
NO	REVISION	BY	DATE
1	Addendum 2		8/7/2025
PLAN SCALE:		DRAWN	DB
3/32" = 1'-0"		DESIGNED	
PROFILE SCALE:		SURVEY	
HORIZONTAL:		PROJ. MGR.	
		LEAD ENGR.	
		FIELD MGR.	
VERTICAL:		RECOMMENDED:	
FILE:		DESIGN MANAGER	
		DRAWING:	FOR
ATLAS PAGE NO:		CITY ENGINEER	
SHEET NAME:		DATE:	
ELECTRICAL SYSTEMS PLAN		SHEET NO.	E2-11



2 ENLARGED MECH YARD (ALTERNATE)
1/4" = 1'-0"



1 ENLARGED MECH YARD (BASE BID)
1/4" = 1'-0"



3 ENLARGED MECH 147 POWER
1/4" = 1'-0"



STORMWATER MAINTENANCE AND OPERATIONS BUILDING
PROJECT NO. SW23-01-01
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT
PLANS AND ESTIMATES PREPARED BY:
BKL, INCORPORATED ENGINEERS & ARCHITECTS
GREEN ACORN MECHANICAL, ELECTRICAL & PLUMBING

NO	REVISION	BY	DATE	PLAN SCALE:	DRAWN	DB	APPROVED
1	Addendum 2		8/7/2025	1/4" = 1'-0"	DESIGNED		
				PROFILE SCALE	SURVEY		
					PROJ. MGR.		
					LEAD ENGR.		
				HORIZONTAL:	FIELD MGR.		
					RECOMMENDED:		
				VERTICAL:	DESIGN MANAGER		
				FILE:	DRAWING:		
				ATLAS PAGE NO.			
				SHEET NAME:			SHEET NO.
				ENLARGED ELECTRICAL PLANS			E4-01

SWITCHBOARD: MDP

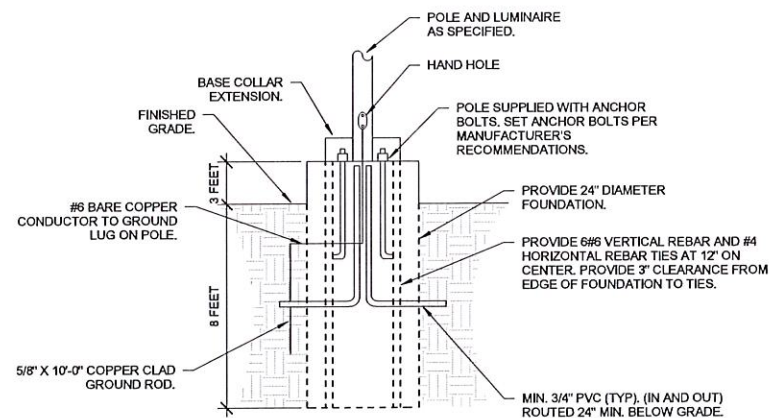
LOCATION: MECHANICAL YARD
SUPPLY FROM: UTILITY TRANSFORMER (ALTERNATE: ATS)
MOUNTING: SURFACE (4" HOUSEKEEPING PAD)
ENCLOSURE: NEMA 3R

VOLTAGE/PHASE: 208/120V, Wye, 3PH, 4W
A.I.C. RATING 65kAIC, FULLY RATED
MAINS TYPE: MCB
MAINS RATING: 800 A

CKT	CIRCUIT DESCRIPTION	NOTES	A	B	C	REMARKS
1	PANEL 'P1'		19.58	20.78	20.61	
2	PANEL 'P2'		24.18	21.50	18.37	
3	PANEL 'P3'		10.22	11.18	8.81	
4	PANEL 'M'		8.56	8.29	6.31	
5	RTU-1		4.37	4.37	4.37	
6	RTU-2		4.37	4.37	4.37	
7	RTU-3		13.25	13.25	13.25	
8	RTU-4		12.29	12.29	12.29	
9	GENERATOR PANEL			2.50	2.50	
10	PREPARED SPACE	—	—	—	—	
11	PREPARED SPACE	—	—	—	—	
			96.81 KVA	98.53 KVA	90.88 KVA	

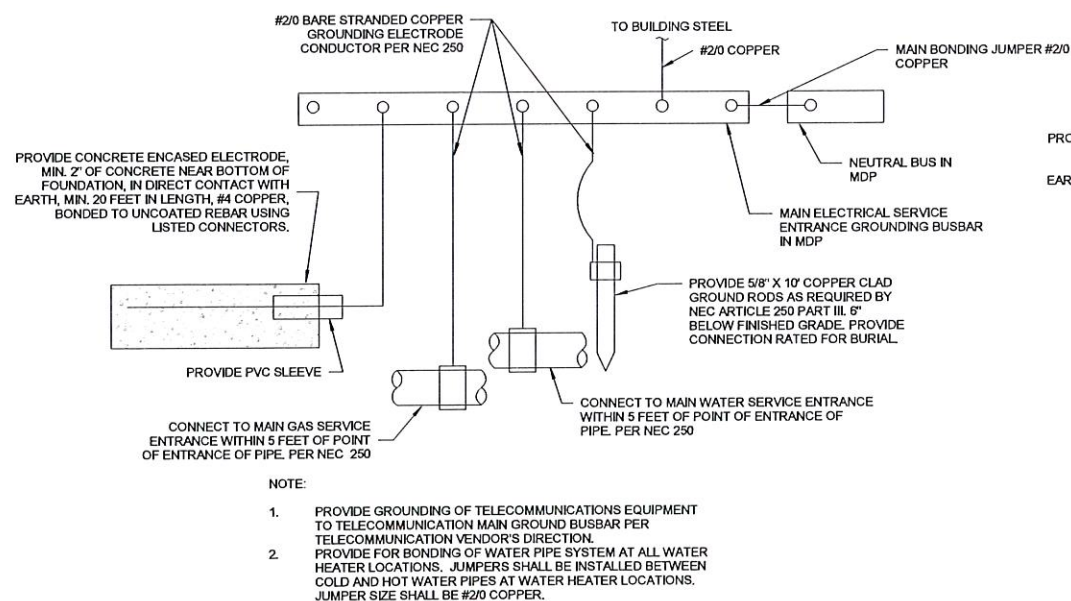
BREAKER NOTES	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
1) SHUNT TRIP	HVAC	124469 VA	100.00%	124469 VA		
2) LOCK-OUT DEVICE	Lighting	13952 VA	125.00%	17441 VA	CONN. LOAD (kVA):	288 kVA
3) GFEP	Motor	16632 VA	125.00%	20790 VA	EST. DEMAND (kVA):	287 kVA
4) GCFI	Receptacle	63100 VA	57.92%	36550 VA	EST. DEMAND (A):	742 A
5) AFCI (DED. NEUT. REQ'D)	Misc Equip	68072 VA	100.00%	68072 VA		
6) EXISTING CKT TO REMAIN						
7)						
8)						

NOTES:
 PROVIDE 4" HOUSEKEEPING PAD UNDER 'MDP'
 MCB NOT INSTALLED IF GENERATOR ALTERNATE IS ACCEPTED



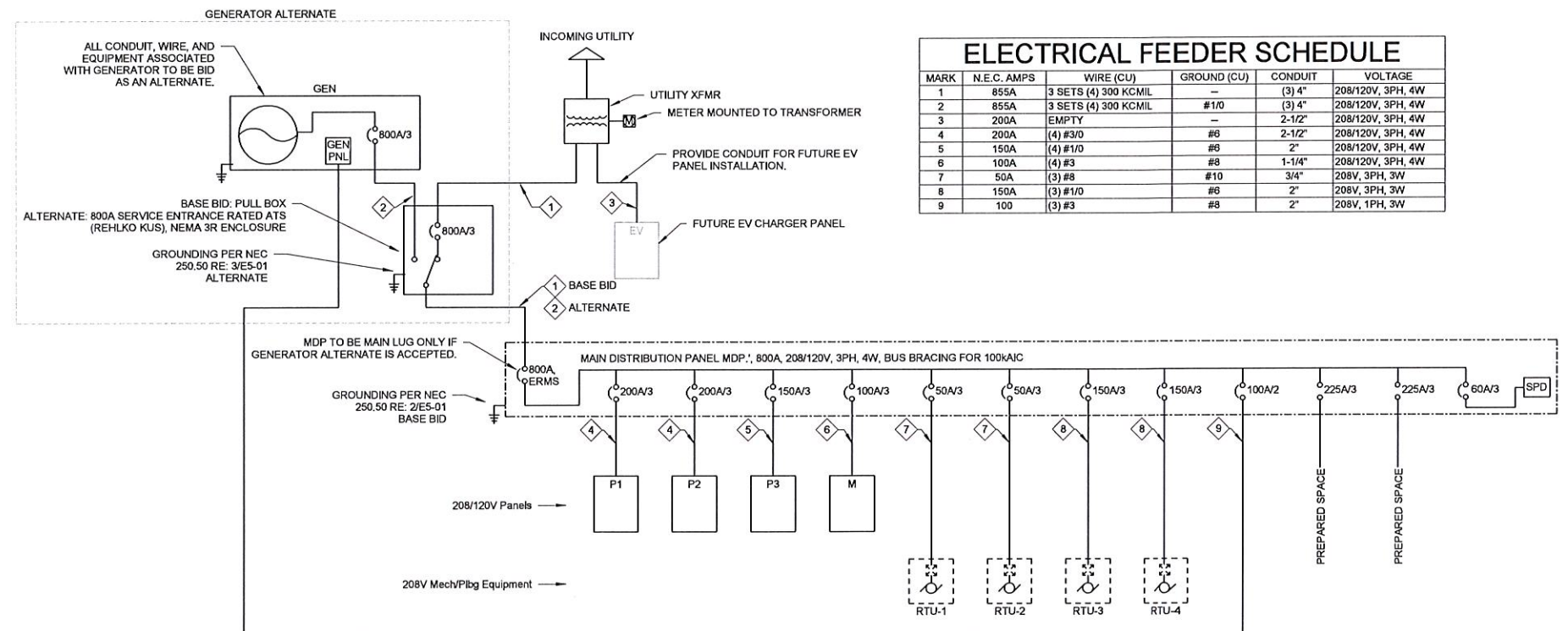
4 POLE BASE DETAIL

N.T.S.



2 GROUNDING DETAIL (BASE BID)

N.T.S.



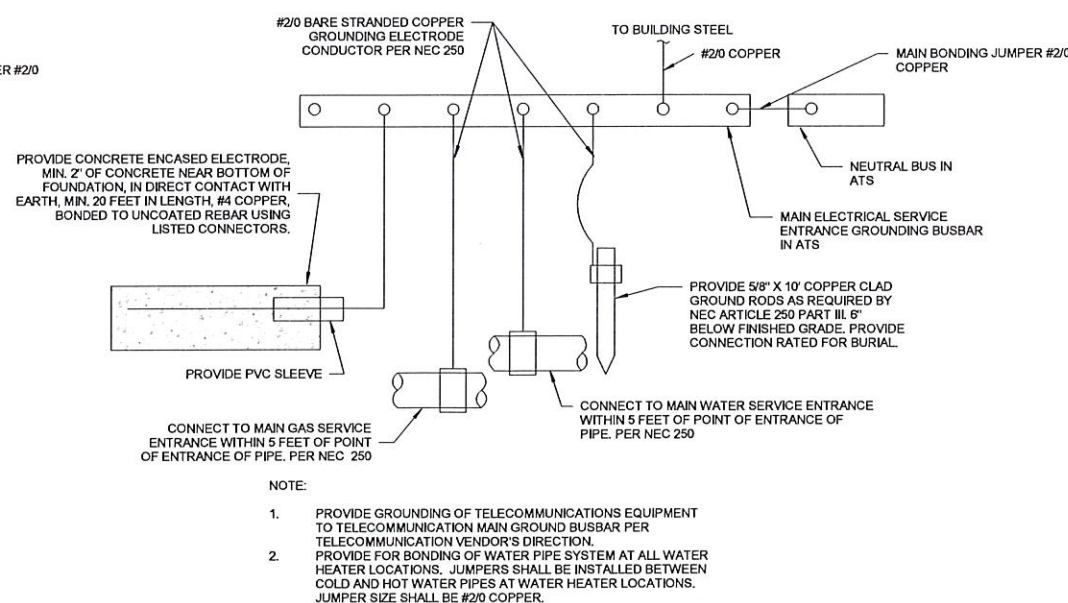
1 ELECTRICAL ONE LINE DIAGRAM

N.T.S.

DIESEL GENERATOR SCHEDULE											
TAG	MANUFACTURER	MODEL	VOLTS/PHASE	KW RATING	MAX db(A) @ FULL LOAD	HEATER RATING	BATTERY CHARGER (A)	WET WEIGHT (WITH FULL TANK)	DIMENSIONS (L"xW"xH")	TANK CAPACITY (GAL)	RUNTIME @ FULL LOAD
GEN	REHLKO	300REOZJ	208V/3ph	300	75	2500W (208V/1PH)	10A	17838 lbs.	220" x 25.7" x 124.9"	1074	48HR

REMARKS:

- GENERATOR SHALL INCLUDE 4UA13 ALTERNATOR.
- ENCLOSURE FINISH - BEIGE
- PROVIDE INTEGRAL 208/120V, 1PH, 3W LOAD CENTER FOR POWERING OF LIGHTS, SERVICE RECEPTACLE, BATTERY CHARGER, AND HEATER.
- MUFFLERS SHALL BE LOCATED WITHIN ENCLOSURE.
- REMOTE ANNUNCIATOR - HARDWIRED
- PROVIDE EMERGENCY STOP BUTTON ON EXTERIOR OF GENERATOR ENCLOSURE.
- PROVIDE CATWALKS FOR GENERATOR ENCLOSURE ACCESS.



2 GROUNDING DETAIL (ALTERNATE)

N.T.S.



NO	REVISION	BY	DATE	PLAN SCALE:	DRAWN	DB	APPROVED
1	Addendum 2		8/7/2025	N.T.S.	DESIGNED		
				PROFILE SCALE	SURVEY		
					PROJ. MGR.		
					LEAD ENGR.		
				HORIZONTAL:	FIELD MGR.		
					RECOMMENDED:		
				VERTICAL:	DESIGN MANAGER		
				FILE:	DRAWING:		
				ATLAS PAGE NO.			
				SHEET NAME:			
				ELECTRICAL DETAILS			SHEET NO.
							E5-01

PANELBOARD: P1															
LOCATION: STORAGE 106					VOLTAGE/PHASE: 208/120V, Wye, 3PH, 4W										
SUPPLY FROM: MDP					A.I.C. RATING: 10kAIC, FULLY RATED										
MOUNTING: SURFACE					MAINS TYPE: MLO										
ENCLOSURE: NEMA 1					MAINS RATING: 200 A										
CKT	CIRCUIT DESCRIPTION	WIRE SIZE (H,N,G) OR (H,G)	NOTES	TRIP	#	A (KVA)	B (KVA)	C (KVA)	#	TRIP	NOTES	WIRE SIZE (H,N,G) OR (H,G)	CIRCUIT DESCRIPTION	CKT	
1	STORAGE 104	1-#12, 1-#12, 1-#12		20 A	1	0.18	0.90			1	20 A	1-#12, 1-#12, 1-#12	TRAINING 103 WEST	2	
3	ENTRY PLAZA	1-#12, 1-#12, 1-#12		20 A	1		0.90	0.72		1	20 A	1-#12, 1-#12, 1-#12	TRAINING 103 FB WEST	4	
5	MECH/ELECT 106	1-#12, 1-#12, 1-#12		20 A	1			0.54	0.72	1	20 A	1-#12, 1-#12, 1-#12	TRAINING 103 FB WEST	6	
7	LACTATION ROOM 107	1-#12, 1-#12, 1-#12		20 A	1	0.36	0.72			1	20 A	1-#12, 1-#12, 1-#12	TRAINING 103 NORTH	8	
9	CORRIDOR 109	1-#12, 1-#12, 1-#12		20 A	1		0.38	1.50		2	20 A	2-#12, 1-#12	EUH-1	10	
11	BREAK ROOM 108	1-#12, 1-#12, 1-#12		20 A	1			0.90	1.50					12	
13	MICROWAVE	1-#12, 1-#12, 1-#12		20 A	1	1.10	1.50			2	20 A	2-#12, 1-#12	EUH-2	14	
15	MICROWAVE	1-#12, 1-#12, 1-#12		20 A	1		1.10	1.50						16	
17	MICROWAVE	1-#12, 1-#12, 1-#12		20 A	1			1.10	0.10	1	20 A	1-#12, 1-#12, 1-#12	EF-3	18	
19	FRIDGE	1-#12, 1-#12, 1-#12	4	20 A	1	0.80	1.08			1	20 A	1-#12, 1-#12, 1-#12	TRAINING 103 EAST	20	
21	COUNTER	1-#12, 1-#12, 1-#12		20 A	1		0.18	0.54		1	20 A	1-#12, 1-#12, 1-#12	STORAGE 102	22	
23	COFFEE MAKER	1-#12, 1-#12, 1-#12		20 A	1			1.60	0.36	1	20 A	1-#12, 1-#12, 1-#12	JAN 101	24	
25	ICEMAKER	1-#12, 1-#12, 1-#12		20 A	1	0.60	0.36			1	20 A	1-#12, 1-#12, 1-#12	JAN 101	26	
27	COUNTER	1-#12, 1-#12, 1-#12		20 A	1		0.18	0.36		1	20 A	1-#12, 1-#12, 1-#12	TANK PUMP	28	
29	RANGE	2-#8, 1-#6, 1-#10	4	20 A	2	4.16	0.70		4.16	0.36	1	20 A	1-#12, 1-#12, 1-#12	JAN 101	30
31				20 A	1				1	20 A	4	1-#12, 1-#12, 1-#12	107 FRIDGE	32	
33	COFFEE MAKER	1-#12, 1-#12, 1-#12		20 A	1		1.60	1.50		2	20 A	2-#12, 1-#12	EUH-3	34	
35	COFFEE MAKER	1-#12, 1-#12, 1-#12		20 A	1			1.60	1.50					36	
37	FRIDGE	1-#12, 1-#12, 1-#12	4	20 A	1	0.80	0.18			1	20 A	1-#12, 1-#12, 1-#12	CP-1	38	
39	COFFEE MAKER	1-#12, 1-#12, 1-#12		20 A	1		1.60	1.80		1	20 A	1-#12, 1-#12, 1-#12	WH-1	40	
41	WATER COOLER	1-#12, 1-#12, 1-#12	4	20 A	1			0.70	0.36	1	20 A	1-#12, 1-#12, 1-#12	EAST TRAINING TV	42	
43	RESTROOMS	1-#12, 1-#12, 1-#12		20 A	1	0.36	0.72			1	20 A	1-#12, 1-#12, 1-#12	EAST TRAINING FB	44	
45	PRE-FUNCTION/LOBBY	1-#12, 1-#12, 1-#12		20 A	1		1.26	0.72		1	20 A	1-#12, 1-#12, 1-#12	EAST TRAINING FB	46	
47	EF-1	1-#12, 1-#12, 1-#12		20 A	1			0.41	0.36	1	20 A	1-#12, 1-#12, 1-#12	WEST TRAINING TV	48	
49	FPB 3-1	1-#12, 1-#12, 1-#12	2	20 A	1	0.86	0.60			1	20 A	1-#12, 1-#12, 1-#12	NORTH EXTERIOR LTG.	50	
51	FPB 3-2	1-#12, 1-#12, 1-#12	2	20 A	1		0.86	0.30		1	20 A	1-#12, 1-#12, 1-#12	NORTH LIGHTING	52	
53	FPB 3-3	1-#12, 1-#12, 1-#12	2	20 A	1			1.18	1.01	1	20 A	1-#12, 1-#12, 1-#12	NW LIGHTING	54	
55	FPB 3-4	1-#12, 1-#12, 1-#12	2	20 A	1	1.18	1.38			1	20 A	1-#12, 1-#12, 1-#12	OPEN AREA LIGHTING	56	
57	KITCHEN HOOD	1-#12, 1-#12, 1-#12		20 A	1		0.60	1.81		1	20 A	1-#10, 1-#10, 1-#10	TRAINING PEND. LTG.	58	
59	DRY RISER AC	2-#12, 1-#12		20 A	2	0.89	1.18		0.89	1.44		1-#12, 1-#12, 1-#12	DISHWASHER	60	
61										1	20 A	4	GARBAGE DISP	62	
63	TIMECLOCK	1-#12, 1-#12, 1-#12		20 A	1		0.18	0.00		1	20 A	—	SPARE	64	
65	SPARE	—	—	20 A	1			0.00	0.00		1	20 A	—	SPARE	66
67	SPARE	—	—	20 A	1	0.00	0.00			1	20 A	—	SPARE	68	
69	SPARE	—	—	20 A	1		0.00	0.00		1	20 A	—	SPARE	70	
71	SPARE	—	—	20 A	1			0.00	0.00		1	20 A	—	SPARE	72
73	SPARE	—	—	20 A	1	0.00	0.00			1	20 A	—	SPARE	74	
75	SPARE	—	—	20 A	1		0.00	0.00		1	20 A	—	SPARE	76	
77	SPARE	—	—	20 A	1			0.00	0.00	1	20 A	—	SPARE	78	
Total Load:						20.61 KVA	19.58 KVA	20.78 KVA							
BREAKER NOTES		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS									
1) SHUNT TRIP		HVAC	11869 VA	100.00%	11869 VA	TOTAL CONN. LOAD (KVA): 60.98 KVA									
2) LOCK-OUT DEVICE		Lighting	5108 VA	125.00%	6382 VA	TOTAL EST. DEMAND (KVA): 60.38 KVA									
3) GFEP		Motor	408 VA	125.00%	510 VA	TOTAL EST. DEMAND (A): 168 A									
4) GFCI		Receptacle	13960 VA	85.82%	11980 VA										
5) AFCI (DED. NEUTRAL REQ'D)		Misc Equip	29636 VA	100.00%	29636 VA										
6) EXISTING CIRCUIT TO REMAIN															
7) THROUGH RELAY PANEL															
8) THROUGH LIGHTING INVERTER															

PANELBOARD: P2															
LOCATION: JANITOR 157										VOLTAGE/PHASE: 208/120V, Wye, 3PH, 4W					
SUPPLY FROM: MDP										A.I.C. RATING: 22KAIC, FULLY RATED					
MOUNTING: FLUSH										MAINS TYPE: MLO					
ENCLOSURE: NEMA 1										MAINS RATING: 200 A					
CKT	CIRCUIT DESCRIPTION	WIRE SIZE (H,N,G) OR (H,G)	NOTES	TRIP	#	A (KVA)	B (KVA)	C (KVA)	#	TRIP	NOTES	WIRE SIZE (H,N,G) OR (H,G)	CIRCUIT DESCRIPTION	CKT	
1	WORKROOM 158 RCPTS	1-#12, 1-#12, 1-#12	4	20 A	1	0.54	1.44			1	20 A	2	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	2
3	COPIER	1-#12, 1-#12, 1-#12		20 A	1		0.80	0.36			1	20 A	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	4
5	EWVC	1-#12, 1-#12, 1-#12		20 A	1				0.70	0.36	1	20 A	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	6
7	MUDROOM RCPTS	1-#12, 1-#12, 1-#12		20 A	1	0.36	0.36				1	20 A	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	8
9	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1		0.30	0.36		1	20 A	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	10	
11	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1			0.30	1.44	1	20 A	2	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	12
13	LAB RCPT - DW	1-#12, 1-#12, 1-#12		20 A	1	1.44	1.44			1	20 A	2	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	14
15	LABE DEIONIZER	1-#12, 1-#12, 1-#12		20 A	1		0.30	1.44		1	20 A	2	1-#12, 1-#12, 1-#12	OPEN OFFICE 150 FLRBOX	16
17	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1			0.30	0.54	1	20 A	1-#12, 1-#12, 1-#12	CONF 149 S. TV & FLRBOX	18	
19	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1	0.30	0.90			1	20 A	1-#12, 1-#12, 1-#12	CONF 149 N. TV & FLRBOX	20	
21	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1		0.30	1.60		1	20 A	1-#12, 1-#12, 1-#12	COFFEE MAKER	22	
23	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1			0.30	1.60	1	20 A	1-#12, 1-#12, 1-#12	S KITCHENETTE COUNTER	24	
25	LAB DEIONIZER	1-#12, 1-#12, 1-#12		20 A	1	0.30	0.80			1	20 A	4	1-#12, 1-#12, 1-#12	FRIDGE	26
27	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1		0.30	0.18		1	20 A	1-#12, 1-#12, 1-#12	DATA 146 CEILING RCPT	28	
29	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1			0.30	0.18	1	20 A	1-#12, 1-#12, 1-#12	DATA 146 CEILING RCPT	30	
31	LAB RCPT	1-#12, 1-#12, 1-#12		20 A	1	0.90	0.72			1	20 A	1-#12, 1-#12, 1-#12	OFFICE 145 RCPTS	32	
33	FRIDGE	1-#12, 1-#12, 1-#12	4	20 A	1		0.80	0.72		1	20 A	1-#12, 1-#12, 1-#12	OFFICE 144 RCPTS	34	
35	FRIDGE	1-#12, 1-#12, 1-#12	4	20 A	1			0.80	0.72	1	20 A	1-#12, 1-#12, 1-#12	OFFICE 143 RCPTS	36	
37	S. OFFICE LIGHTING	1-#12, 1-#12, 1-#12		20 A	1	0.68	0.72			1	20 A	1-#12, 1-#12, 1-#12	OFFICE 141 RCPTS	38	
39	W. OPEN OFFICE 150 RCPT	1-#12, 1-#12, 1-#12		20 A	1		0.90	0.72		1	20 A	1-#12, 1-#12, 1-#12	OFFICE 140 RCPTS	40	
41	W. OPEN OFFICE LIGHTING	1-#12, 1-#12, 1-#12		20 A	1				0.82	1.08	1	20 A	1-#12, 1-#12, 1-#12	E. OPEN OFFICE 150 RCPTS	42
43	OPEN OFFICE LIGHTING	1-#12, 1-#12, 1-#12		20 A	1	0.82	0.72			1	20 A	1-#12, 1-#12, 1-#12	OFFICE 161 RCPTS	44	
45	OPEN OFFICE 150 FLRBOX	1-#12, 1-#12, 1-#12	2	20 A	1		1.44	0.72		1	20 A	1-#12, 1-#12, 1-#12	OFFICE 160 RCPTS	46	
47	E. OPEN OFFICE LIGHTING	1-#12, 1-#12, 1-#12		20 A	1			0.82	0.90	1	20 A	1-#12, 1-#12, 1-#12	OFFICE 159 RCPTS	48	
49	DSO/DSI-2	2-#10, 1-#10		30 A	2	1.98	1.20			1	20 A	2	1-#12, 1-#12, 1-#12	LAB EXHAUST	50
51										1	20 A	1-#12, 1-#12, 1-#12	IT EQUIP	52	
53	DSO/DSI-1	2-#10, 1-#10		30 A	2	1.98	1.50		1.98	1.50	2	20 A	2-#12, 1-#12	EVH-1	54
55															56
57	H	1-#12, 1-#12, 1-#12		20 A	1		1.80	0.45		1	20 A	1-#12, 1-#12, 1-#12	EXTERIOR RR LIGHTING	58	
59	CP-2	1-#12, 1-#12, 1-#12		20 A	1			0.18	0.49	1	20 A	1-#12, 1-#12, 1-#12	SOUTH EXTERIOR LTG	60	
61	EUH-5	2-#12, 1-#12		20 A	2	1.50	0.18			1	20 A	1-#12, 1-#12, 1-#12	R.R. 156	62	
63							1.50	0.18		1	20 A	1-#12, 1-#12, 1-#12	MECH YARD RCPT	64	
65	SOUTH EXHAUST	1-#12, 1-#12, 1-#12		20 A	1			0.52	0.18	1	20 A	1-#12, 1-#12, 1-#12	TIMECLOCK	66	
67	FPB 4-2	1-#12, 1-#12, 1-#12	2	20 A	1	0.86	0.36			1	20 A	1-#12, 1-#12, 1-#12	IT EQUIP	68	
69	ECH-1	2-#10, 1-#10		30 A	2		2.00								70
71							2.00								72
73	ECH-2	2-#10, 1-#10		30 A	2			2.00	0.00	1	20 A	--	--	SPARE	74
75															76
77	SW EXTERIOR RCPTS	1-#12, 1-#12, 1-#12		20 A	1			0.36	0.00	1	20 A	--	--	SPARE	78
79	JANITOR 157 RCPT	1-#12, 1-#12, 1-#12		20 A	1	0.18	0.00			1	20 A	--	--	SPARE	80
81								0.00		1	20 A	--	--	SPARE	82
83	SPARE	--	--	20 A	1			0.00	0.00	1	20 A	--	--	SPARE	84
Total Load: 24.18 KVA 21.50 KVA 18.37 KVA															
BREAKER NOTES		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS									
1) SHUNT TRIP		HVAC	8768 VA	100.00%	8768 VA										
2) LOCK-OUT DEVICE		Lighting	4094 VA	125.00%	5117 VA	TOTAL CONN. LOAD (KVA): 64.06 KVA									
3) GFEP		Motor	173 VA	125.00%	217 VA	TOTAL EST. DEMAND (KVA): 59.15 KVA									
4) GFCI		Receptacle	21950 VA	72.77%	15980 VA	TOTAL EST. DEMAND (A): 164 A									
5) AFCI (DED. NEUTRAL REQ'D)		Misc Equip	29067 VA	100.00%	29067 VA										
6) EXISTING CIRCUIT TO REMAIN															
7) THROUGH RELAY PANEL															
8) THROUGH LIGHTING INVERTER															

LIGHT FIXTURE SCHEDULE									
TAG	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTAGE	LIGHT SOURCE	MOUNTING	FINISH	DESCRIPTION	
A	METALUX	24CZ2-40-UNV-L840-CD1-U	120V	30 W	LED, 4000K	CEILING, RECESSED	WHITE	2X4 RECESSED, 4000L	
AE	METALUX	24CZ2-40-UNV-EL10W-L840-CD1-U	120V	30 W	LED, 4000K	CEILING, RECESSED	WHITE	2X4 RECESSED, 4000L, INTEGRAL BATTERY	
B	METALUX	22CZ2-32-UNV-L840-CD1-U	120V	24 W	LED, 4000K	CEILING, RECESSED	WHITE	2X2 RECESSED, 3200L	
BE	METALUX	22CZ2-32-UNV-EL10W-L840-CD1-U	120V	24 W	LED, 4000K	CEILING, RECESSED	WHITE	2X2 RECESSED, 3200L, INTEGRAL BATTERY	
D4	PORTFOLIO	LD4C209040010M1H	120V	23 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	4" LED DOWNLIGHT, 2000L	
D4E	PORTFOLIO	LD4C209040010M1H-EM7	120V	23 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	4" LED DOWNLIGHT, 2000L, INTEGRAL BATTERY	
D6	PORTFOLIO	LD6C259040010M1H	120V	32 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	6" LED DOWNLIGHT, 2500L	
D6E	PORTFOLIO	LD6C259040010M1H-EM7	120V	32 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	6" LED DOWNLIGHT, 2500L, INTEGRAL BATTERY	
EM	EVENLITE	MM-EM-20-BK-W-SD	120V	20 W	LED	RE: LIGHTING PLAN KEYNOTES	BLACK	20W LED MULLION MOUNTED EMERGENCY FIXTURE. LOCATE REMOTE DRIVER IN NEAREST ACCESSIBLE CEILING SPACE. FIXTURE SHALL BE MOUNTED TO MULLION DIRECTLY ABOVE DOOR. FIXTURE SHALL ONLY OPERATE IF POWER IS LOST TO BUILDING.	
F	LUMARK	TCRS-8W-M-BK	120V	8 W	LED, 4000K	STRUCTURE, SURFACE	BLACK	8W LED SPOT LIGHT MOUNTED DIRECTLY TO JUNCTION BOX.	
L1	PRUDENTIAL	BPRO3-REC-FLSH-LED4-MO-(R7' 2-1/4") - TMW-SAL-WTW-SC-UNV-X7-DM01	120V	39 W	LED, 4000K	RECESSED, CEILING	WHITE	5.6W/FT, 700LFT RECESSED LINEAR FIXTURE (7' 2-1/4" LENGTH). WALL TO WALL CONFIGURATION. PROVIDE FIELD CUTTABLE FILLER FIXTURE.	
L2	PRUDENTIAL	BPRO3-REC-FLSH-LED4-MO-(R15' 5-1/4") - TMW-SAL-WTW-SC-UNV-X7-DM01	120V	87 W	LED, 4000K	RECESSED, CEILING	WHITE	5.6W/FT, 700LFT RECESSED LINEAR FIXTURE (15' 5-1/4" LENGTH). WALL TO WALL CONFIGURATION. PROVIDE FIELD CUTTABLE FILLER FIXTURE.	
L3E	PRUDENTIAL	BPRO3-REC-FLSH-LED4-MO-(R20' 3/8") - TMW-SAL-WTW-SC-UNV-X7-DM01(3)EMHE	120V	112 W	LED, 4000K	RECESSED, CEILING	WHITE	5.6W/FT, 700LFT RECESSED LINEAR FIXTURE (23' 3/8" LENGTH). WALL TO WALL CONFIGURATION. PROVIDE FIELD CUTTABLE FILLER FIXTURE. PROVIDE (3) EM AS INDICATED ON PLANS.	
P8	PRUDENTIAL	BPRO3-LIN-FLSH-LED4-MO/ISO-8-TMW-SAL-HCW-ADC-SC-UNV-CA48"-X1-DM01	120V	80 W	LED, 4000K	CEILING, PENDANT +84"	WHITE	6" LED UP/DOWN PENDANT FIXTURE	
P8	PRUDENTIAL	BPRO3-LIN-FLSH-LED4-MO/ISO-8-TMW-SAL-HCW-ADC-SC-UNV-CA48"-X1-DM01	120V	107 W	LED, 4000K	CEILING, PENDANT +84"	WHITE	8" LED UP/DOWN PENDANT FIXTURE	
P20	NEO-RAY	SA2120IP-C675D530U840-C20-JB-24F0-1-UDD-F-4-F-D-S2A2	120V	206 W	LED, 4000K	CEILING, PENDANT +144"	ACACIA	20" LED PENDANT FIXTURE, 675 LMFT DOWN, 530 LMFT UP, 20" AIRCRAFT CABLE MOUNT	
P24	NEO-RAY	SA2120IP-C675D530U840-C20-JB-24F0-1-UDD-F-4-F-D-S2A2	120V	247 W	LED, 4000K	CEILING, PENDANT +144"	ACACIA	24" LED PENDANT FIXTURE, 675 LMFT DOWN, 530 LMFT UP, 20" AIRCRAFT CABLE MOUNT	
P40	NEO-RAY	SA2120IP-C675D530U840-C20-JB-40F0-1-(B3 PER PLANS)-UDD-F-4-F-D-S2A2	120V	412 W	LED, 4000K	CEILING, PENDANT +120"	ACACIA	40" LED PENDANT FIXTURE, 675 LMFT DOWN, 530 LMFT UP, 20" AIRCRAFT CABLE MOUNT, PROVIDE EM AS INDICATED ON PLANS.	
S4	ALW	LP3.5SMBWL-34-MED/80/4000-V05-EXT-SB-UNV-UNV-N	120V	34 W	LED, 4000K	CANOPY, SURFACE	BLACK	4" SURFACE MOUNTED LINEAR FIXTURE, 870LMFT	
S4E	ALW	LP3.5SMBWL-34-MED/80/4000-V05-EXT-SB-UNV-EMB/1-N	120V	34 W	LED, 4000K	CANOPY, SURFACE	BLACK	4" SURFACE MOUNTED LINEAR FIXTURE, 870LMFT, BATTERY BACKUP	
S8	ALW	LP3.5SMBWL-38-MED/80/4000-V05-EXT-SB-UNV-N	120V	67 W	LED, 4000K	CANOPY, SURFACE	BLACK	8" SURFACE MOUNTED LINEAR FIXTURE, 870LMFT	
ST	METALUX	45NX-41SL-C-UNV-L840-CD-1-U	120V	26 W	LED, 4000K	CEILING, CHAIN HUNG, +108"	WHITE	4" LED STRIP LIGHT 4100L (6.5W/FT)	
STE	METALUX	45NX-41SL-L-C-UNV-L840-CD-1-EL7W-U	120V	26 W	LED, 4000K	CEILING, CHAIN HUNG, +108"	WHITE	4" LED STRIP LIGHT 4100L, INTEGRAL BATTERY	
T	MCGRAW-EDISON	GALN-SA4A-740-U-T4FT-BK-HSS	120V	121 W	LED, 4000K	20" POLE (3" BASE)	BLACK	18000 LUMEN LED POLE LIGHT (PROVIDE 20" SQUARE POLE AND 3" POLE BASE)	
W	LUMARK	PRV-P-PA1A-740-T4W-WM-BK	120V	36 W	LED, 4000K	WALL, SURFACE +120"	BLACK	WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET. ENSURE JUNCTION BOX IS RECESSED WITHIN WALL CAVITY.	
WE	LUMARK	PRV-P-PA1A-740-T4W-WM-BK-CBP	120V	36 W	LED, 4000K	WALL, SURFACE +120"	BLACK	WALL MOUNTED LED FIXTURE WITH WALL MOUNT BRACKET AND EMERGENCY BATTERY BACKUP. ENSURE JUNCTION BOX IS RECESSED WITHIN WALL CAVITY.	
WL	PRUDENTIAL	BIO-PSTD-FLSH-LED4-MO-R22-AWW-D1G-LP-SC-UNV-X7BF-DM01	120V	154 W	LED, 4000K	CEILING, RECESSED	WHITE	22" WALL WASH LED FIXTURE, 550 LMFT	
WW	PORTFOLIO	LD4C109040010L5WW1H	120V	10 W	LED, 4000K	CEILING, RECESSED	SEMI-SPECULAR	4" LED WALL WASH DOWNLIGHT, 1000L	
XC1	SURE-LITES	ARCEL71RCSSSD	120V	2 W	LED, RED	CEILING, SURFACE	BRUSHED ALUMINUM	LED RED EXIT SIGN, SINGLE FACE, CEILING MOUNT, BATTERY BACKUP	
XC2	SURE-LITES	ARCEL72RMSSSD	120V	2 W	LED, RED	CEILING, SURFACE	BRUSHED ALUMINUM	LED RED EXIT SIGN, DOUBLE FACE, CEILING MOUNT, BATTERY BACKUP	
XW1	SURE-LITES	ARCEL71RCSSSD	120V	2 W	LED, RED	WALL, SURFACE +90"	BRUSHED ALUMINUM	LED RED EXIT SIGN, SINGLE FACE, WALL MOUNT, BATTERY BACKUP	

LIGHTING CONTROLS SCHEDULE				
ROOM INFORMATION		REMARKS	SWITCH INDICATOR	ZONE DESCRIPTION
NAME	NUMBER			
CORR.	120	2,3	a	CORRIDOR 120, 127, 133, AND 150 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
CORRIDOR	127	2,3	a	CORRIDOR 120, 127, 133, AND 150 LIGHTING. CORRIDOR 120, 127, 133, AND 150 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
CORR.	133	2,3	a	CORRIDOR 120, 127, 133, AND 150 LIGHTING. CORRIDOR 120, 127, 133, AND 150 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
OPEN OFFICES	150	2,3	a	CORRIDOR 120, 127, 133, AND 150 LIGHTING. CORRIDOR 120, 127, 133, AND 150 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
OPEN OFFICES	121	1	b	OPEN OFFICE 150 LINEAR PENDANT FIXTURES. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. SWITCH MUST HAVE THE ABILITY TO CONTROL (2) SEPARATE CIRCUITS.
OPEN OFFICES-2	150-2	1	c	OPEN OFFICE 150 LINEAR PENDANT FIXTURES. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. SWITCH MUST HAVE THE ABILITY TO CONTROL (3) SEPARATE CIRCUITS.
WOMENS	154	2	d	WOMENS 155 LIGHTING. ZONE SHALL BE EQUIPPED WITH DUAL TECHNOLOGY OCCUPANCY SENSORS.
MENS	153	2	f	MENS 154 LIGHTING. ZONE SHALL BE EQUIPPED WITH DUAL TECHNOLOGY OCCUPANCY SENSORS.
RECEPTION	117	1	g	RECEPTION AREA PENDANT LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS.
RECEPTION	117	1	h	RECEPTION DESK TROFFER LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH.
CORR.	109	2,3	j	CORRIDOR 109 AND 110 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
CORR.	110	2,3	j	CORRIDOR 109 AND 110 LIGHTING. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
CORR.	110	1,2,3	k	BREAK ROOM LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. TIMECLOCK SHALL CONTROL LIGHTS DURING NORMAL OPERATIONAL HOURS. IR OCCUPANCY SENSORS SHALL ALLOW AFTER HOURS CONTROL OF LIGHTS. PROVIDE MANUAL WALL SWITCH FOR OVERRIDE OF TIMECLOCK/OCCUPANCY SENSOR.
WOMENS	112B	2	m	WOMENS 112A AND 112B LIGHTING. ZONE SHALL BE EQUIPPED WITH DUAL TECHNOLOGY OCCUPANCY SENSORS. SWITCH SHALL BE LOCATED IN WOMENS 112B
LOBBY	109	-	n	LOBBY AND PREFUNCTION LIGHTING. ON/OFF CONTROL ONLY.
CORR.	109	-	n	LOBBY AND PREFUNCTION LIGHTING. ON/OFF CONTROL ONLY.
MENS	113B	2	o	MENS 113A AND 113B LIGHTING. ZONE SHALL BE EQUIPPED WITH DUAL TECHNOLOGY OCCUPANCY SENSORS. SWITCH SHALL BE LOCATED IN MENS 113B
TRAINING	104	1,2	p	EAST TRAINING LINEAR LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'p' AND ZONE 'y'.
TRAINING	104	1,2	r	WEST TRAINING DOWNLIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'y' AND ZONE 's'.
TRAINING	104	1,2	s	WEST TRAINING LINEAR LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'y' AND ZONE 's'.
TRAINING	104	1,2	t	EAST TRAINING DOWNLIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'p' AND ZONE 'y'.
CONF.	149	1,2	w	CONF 149 PERIMETER LIGHTING. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'w' AND ZONE 'x'.
CONF.	149	1,2	x	CONF 149 PENDANT LIGHT. ZONE SHALL BE 0-10V DIMMABLE FROM SWITCH. ZONE SHALL BE EQUIPPED WITH IR OCCUPANCY SENSORS AND SENSORS SHALL CONTROL ON/OFF OF BOTH ZONE 'w' AND ZONE 'x'.

REMARKS:

- CONTROLS TO BE EQUIPPED WITH 0-10V DIMMING
- PROVIDE CEILING MOUNTED OCCUPANCY SENSORS WITH FULL ROOM COVERAGE. OCCUPANCY SENSORS SET TO 20 MINUTE SHUTOFF. SENSOR LOCATIONS ARE SHOWN FOR REFERENCE ONLY AND CAN BE MODIFIED BASED ON COVERAGE RANGE OF SUBMITTED PRODUCT.
- LIGHTING ZONE SHALL HAVE TIMECLOCK FUNCTION THAT OPERATES FROM OPEN-CLOSE OF BUSINESS HOURS (VERIFY OPERATIONAL HOURS WITH OWNER PRIOR TO PROGRAMMING)

GENERAL NOTES:

- ALL EXTERIOR LIGHTING ZONES SHALL BE EQUIPPED WITH TIMECLOCK FUNCTION THAT OPERATES DUSK-DAWN. PROVIDE ADDITIONAL PHOTOCCELL FOR EXTERIOR LIGHTING CIRCUITS FOR OVERRIDE OF DUSK-DAWN PROGRAMMING. EXTERIOR LIGHTING CONTROL MAY BE PROVIDED BY A LIGHTING CONTRACTOR RATHER THAN DISTRIBUTED WIRED/WIRELESS CONTROLS.
- UTILIZE SWITCHES THAT ALLOW FOR MULTI-ZONE CONTROL WHERE POSSIBLE. WHERE MULTIPLE ADJACENT SWITCHES ARE SHOWN ON PLANS, CONSOLIDATE TO AS FEW PHYSICAL SWITCHES AS POSSIBLE WHILE ALLOWING FOR FULL FUNCTIONALITY AS INDICATED IN THE CONTROLS SCHEDULE.
- REFER TO PLANS FOR LIGHTING CONTROL ZONE EXTENTS.

LIGHTING CONTROL NOTES

THE DESIGN OF THE LIGHTING CONTROLS CONTAINED WITHIN THIS DRAWING SET SHALL BE CONSTRUED AS A PERFORMANCE-BASED SPECIFICATION. AT THE CONTRACTOR'S OPTION THE DESIGNED SYSTEM MAY BE SUBMITTED, OR A SUBSTITUTION OF THE CONTRACTOR'S DESIGN MAY BE PROVIDED. THE PERFORMANCE OF THE SYSTEM SHALL MEET ALL THE REQUIREMENTS AS SHOWN IN THE DRAWINGS AND BE INSTALLED IN A MANNER THAT COMPLIES WITH IECC 2006. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETELY FUNCTIONAL LIGHTING CONTROL SYSTEM AND SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THAT SYSTEM. IF THE CONTRACTOR OPTS TO USE A DESIGN SUBSTITUTION, THE SYSTEM SHALL CONSIST OF A COMBINATION OF RELAY PANEL-BASED CONTROLS, DISTRIBUTED WIRED CONTROLS, DISTRIBUTED WIRELESS CONTROLS, AND/OR LOCAL CONTROLS. MAJOR BRAND-NAME CONTROLS SHALL BE PROVIDED AND MAY INCLUDE: ACUITY CONTROLS, COOPER CONTROLS, DAINTREE, ENCELJUM, ENLIGHTED, ETC. LEGRAND, LEVITON, LUTRON, NX CONTROLS, SENSORWORX, SYNAPSE, WATTSTOPPER. ALL TIME-BASED CONTROLS SHALL USE A SINGLE TIME CLOCK SOURCE TO ENSURE UNIFORM TRANSITIONS. SUBSTITUTED CONTROLS SHALL BE DESIGNED TO BE AS SIMPLE AS POSSIBLE FOR END USER USE AND MAINTENANCE. SUBSTITUTIONS REQUIRING NUMEROUS MANUFACTURERS OR SYSTEM TYPES WILL BE REJECTED. ENGINEER RESERVES THE RIGHT TO REJECT ANY SUBSTITUTIONS AND REQUIRE RESUBMITTAL WITH NO COST CHANGE TO OWNER.

STORMWATER MAINTENANCE AND OPERATIONS BUILDING

PROJECT NO. SW23-01-01

CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

BKL, INCORPORATED
ENGINEERS & ARCHITECTS

GREEN ACORN
MECHANICAL, ELECTRICAL & PLUMBING



NO	REVISION	BY	DATE	PLAN SCALE:	DRAWN	DB	APPROVED	
				DESIGNED				
1	Addendum 2		8/7/2025	SURVEY				
				PROFILE SCALE	PROJ. MGR.			
				LEAD ENGR.				
				HORIZONTAL:	FIELD MGR.			
				RECOMMENDED:				
				VERTICAL:	DESIGN MANAGER			
				FILE:	DRAWING:			
				ATLAS PAGE NO:				
				SHEET NAME:	ELECTRICAL SCHEDULES			SHEET NO. E6-03