Central Kitsap Fire and Rescue
Station 45

Bid No. 2022-STA45BUILD-50-01

ADDENDUM # 1
April 20, 2022

TO ALL BIDDERS:

The Bid Documents issued 04/04/2022 for the project noted above are amended by this Addendum # 1

Receipt of this addendum shall be acknowledged by inserting its number in the space provided on the bid form.

PROJECT MANUAL ITEMS

ITEM 1. SECTION 00 01 10-8 Table of Contents:
   a. REPLACE SHEET: Changed Spec Section 32 91 16 to 32 91 13.16
ITEM 2. SECTION 08 54 13-3 Fiberglass Windows:
   a. REPLACE SHEET: Modified Glazing Location to read: Glazed in the direction of swing.
ITEM 3. SECTION 12 24 13-3 ROLLER WINDOW SHADES
   a. REPLACE SHEET: Modified G.2.a.1 to read Top Down with Pockets

DRAWINGS

Civil:

ITEM 1. DRAWING C3.00
   a. REPLACE SHEET: Note addressing the “ex storm vault” has been clarified. Draft tank to be removed by contractor.

Architectural:

ITEM 1. DRAWING A23.01
   a. REPLACE SHEET: Revised RS-1 in the finish legend to read Roller Shade Black Out, Top Down
ITEM 2. DRAWING A26.01
   a. REPLACE SHEET: Revised Enlarged Plan 5 to show a 36” x 36” clear opening for the shower.
ITEM 3. DRAWING A28.01
   a. REPLACE SHEET: Revised roller shade at east end of Dayroom 118 to an RS-3.

Plumbing:

ITEM 1. DRAWING P00.03
   a. REPLACE SHEET:
      i. Remove WC-1 from the schedule. All Water closets will be WC-2.
      ii. Revised SH-3 shower pan to APA3939BFPAN 39” x 39” shower pan.

Electrical:

ITEM 1. DRAWING E00.01
- a. REPLACE SHEET: Added request to exit and electric lock symbols to Low Voltage Systems symbols.

ITEM 2. DRAWING E00.03
- a. REPLACE SHEET
  - i. Added spare conduit to roof from main electrical room.
  - ii. Added space for future breaker to main distribution panel.

ITEM 3. DRAWING E22.01A
- a. REPLACE SHEET
  - i. Added GFI, WP callout to BBQ receptacle.
  - ii. Revised circuiting of receptacles at Work Room 103.
  - iii. Revised Flag note #15 to be clearer in intention.

ITEM 4. DRAWING E22.02
- a. REPLACE SHEET
  - i. Added callout for area provided for future PV inverters per Energy Code.
  - ii. Located conduit for future PV.

ITEM 5. DRAWING E22.03
- a. REPLACE SHEET: Located conduit for future PV.

ITEM 6. DRAWING E30.01
- a. REPLACE SHEET: Corrected description for Fixture Type W1 – cylinder specified is direct only.

ITEM 7. DRAWING E32.01
- a. REPLACE SHEET
  - i. Provided switchlegs for luminaires above kitchen island.
  - ii. Reduced length of T1 UC lighting at Dining 117.

ITEM 8. DRAWING E32.02
- a. REPLACE SHEET: Provided switchleg for luminaire at Stair 205.

SUBSTITUTION REQUESTS

ITEM 1. 07 54 00 THERMOPLASTIC MEMBRANE ROOFING
- a. Paragraph 2.3.A – Duro-Last's 80-mil Duro-Tuff Roofing Membrane System. Approved.

ITEM 2. 09 72 00 WALL COVERING
- a. Paragraph 2.3.A.1 – PoshFelt Profile Surface FF003. Approved. Architect to select from the full line of colors.
- b. Paragraph 2.3.B.1 – Soundcore Carved Surfaces KR026. Approved. Architect to select from the full line of colors.

ITEM 3. 10 71 13 EXTERIOR SUN CONTROL DEVICES

a. Paragraph 2.3.A.1 – Airolite TSC6. Approved. Final color and design to be approved by Architect.

ITEM 4. 23 55 00 FUEL-FIRED HEATERS

a. Paragraph 2.01.A – Schwank. Rejected. Fuel-Fired heaters to be Roberts Gordon Vantage CTH3 Series to align with District's other stations.

GENERAL COMMENTS

ITEM 1. Demo of existing structure includes removal of hose tower and all associated structure.

ITEM 2. Contractor to submit and pull Demo Permit within 10-working days of bid award.

ITEM 3. Existing Conex box to remain on site. Contractor to relocate as needed to prevent interference with work.

ATTACHMENTS

1. Specification Sheets:
    a. 00 01 10-8, 08 54 13-3, 12 24 13-3
2. Bid Walk Through Sign-in Sheet
3. Architectural Drawings:
    a. A23.01, A26.01, A28.01
4. Plumbing Drawings:
    a. P00.03
5. Electrical Drawings:
    a. E00.01, E00.03, E22.01A, E22.02, E22.03, E30.01, E32.01, E32.02

END OF ADDENDUM # 1

G . Thermal Movements: Allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures:

1. Temperature Change (Range): 120 degrees F, ambient; 180 degrees F, material surfaces.
2. Test Interior Ambient-Air Temperature: 75 degrees F.
3. Test Performance: No buckling; stress on glass; sealant failure; or excess stress on framing, anchors, and fasteners; and no reduction of performance when tested according to AAMA 501.5.

2.3 MATERIALS

A . Fixed and Casement Fiberglass Windows:

1. Basis of Design Product: Configurations indicated by **Cascadia Windows and Doors**. Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.
2. Features:
   a. Glazing Location: Glazed in the direction of swing. 2
   b. Reinforcing: As required to meet performance criteria and opening sizes indicated.
   c. Dimensions and Configurations: As indicated.

B . Out-swing Hinged Glass Doors:

1. Basis of Design Product: **Tufline 500 Swing Door by Kawneer**. Comparable and substituted products will be judged based on the following performance criteria, features, warranty, and qualifications.
2. Performance Criteria:
   a. ADA compliant with recessed sills.
   b. High traffic, high abuse application.
3. Features:
   a. Glazing Location: Glazed in the direction of swing. 2
   b. Non-Brackets and Reinforcements:Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
   c. Wall Thickness: 3/16-inch.
   d. Sightline: 3-1/2-inch.
   e. Top Rail: 5-inches.
   f. Bottom Rail: 6-1/2-inches.
   g. Stile Widht: 5-inches with 2-inch deep door sections.
   h. Door frame face width: 2-inches with depth of 4-1/2-inches.
   i. Glazing Gaskets:Manufacturer's standard compression types; replaceable, extruded EPDM rubber.
   j. Spacers and Setting Blocks:Manufacturer's standard elastomeric type.
   k. Fasteners and Accessories:Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposes shall be stainless steel.

E . Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.

F . Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.

G . Shade Cloth:

1. Shade Cloth Material: As indicated on drawings.
2. Shade Cloth Bottom (Hem) Bar: Steel or extruded aluminum.
    a. (RS-1) Blackout shades.
        1) Top Down with pockets. 2
        2) Side channels.
        3) Fabric: Verona Twilight Eclipse.
        4) Openess: 0%.
        5) Locations: As noted in Drawings.
    b. (RS-2) Light-filtering shades.
        1) Bottom up with pockets.
        2) Side channels.
        3) Fabric: Sheerweave Infinity.
        4) Openess: 3%.
        5) Locations: As noted in Drawings.
    c. (RS-3) Light-filtering shades.
        1) Top down without pockets.
        2) Fabric: Sheerweave Infinity.
        3) Openess: 3%.
        4) Locations: As noted in Drawings.
    d. Fascia: Extruded aluminum, size as required to conceal shade mounting, attachable to brackets without exposed fasteners; anodized aluminum finish.
        1) Color: Black.
        2) Profile: Square.

H . Installation Accessories:

1. Recessed Shade Pocket: Rectangular, extruded-aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, end plates, and removable bottom closure panel.
    a. Height: Manufacturer's standard height required to enclose roller and shadeband when shade is fully open.
    b. Provide pocket with lip at lower edge to support acoustical ceiling panel.

SUBJECT:
DATE: / /

Eric Hively	Neeley Const.	BidgNeeley.com
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JOE PRESTO	CHRISTENSEN INC	JOE@CINCGC.COM
Patrick Gilbert	Ahearn Electric	pat@ahearnelectric.net
Jason Hawks	3 Kings Environmental	Estimating@3Kingsinc.com
Scott Carnahan	Lincoln Construction inc	~~flor.garcia@lincoln~~ Bids@lincolnnw.com

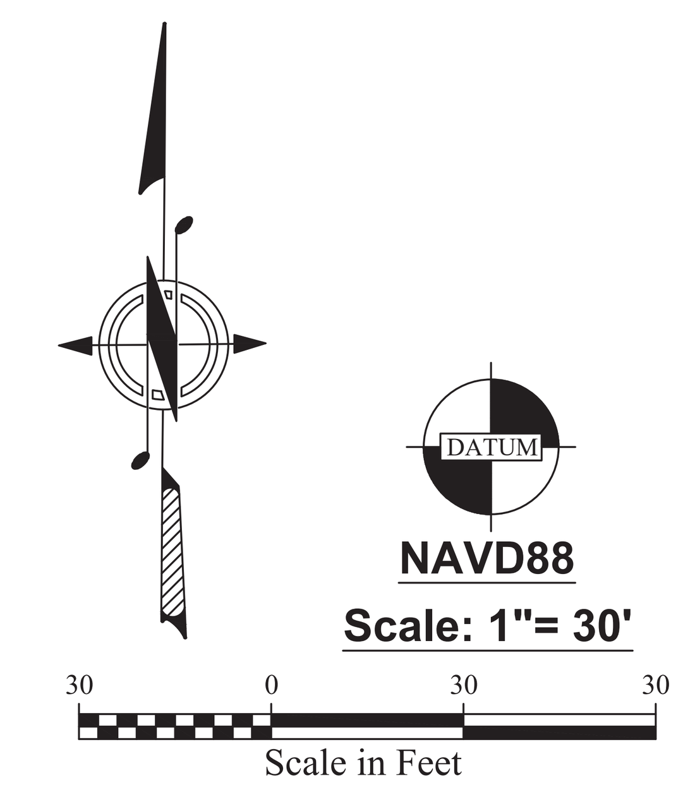
NOTE

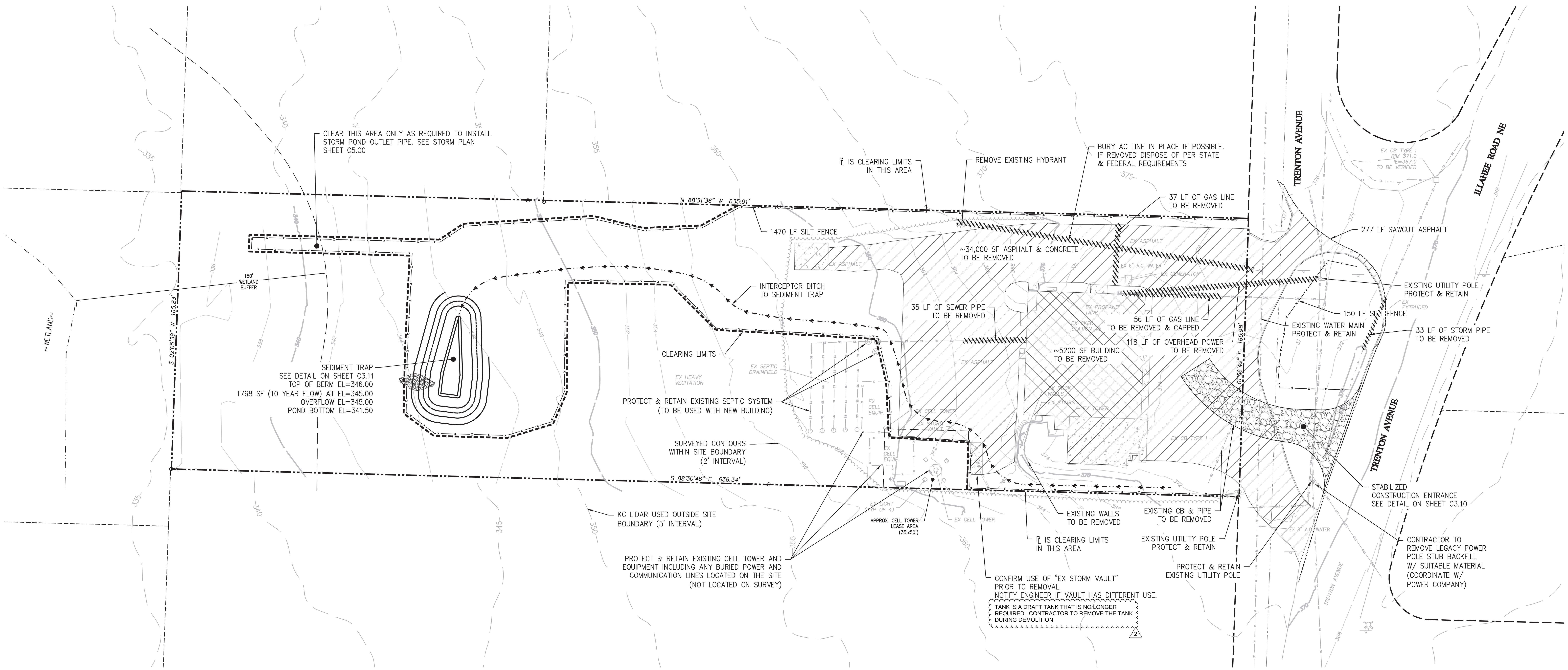
THE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE, PRESERVE AND PROTECT UNDERGROUND UTILITIES.

CALL 48 HOURS
BEFORE YOU DIG
811

NOTES:

1. TESC MEASURES AND BMPS SHOWN ON THESE PLANS ASSUME GRADING TO OCCUR DURING DRY CONSTRUCTION SEASON. IF GRADING AND CONSTRUCTION IS TO OCCUR BETWEEN THE PERIOD OF OCTOBER 1ST THROUGH APRIL 30TH, ADDITIONAL TESC MEASURES WILL BE REQUIRED TO COMPLY WITH CITY OF BREMERTON AND WASHINGTON DEPARTMENT OF ECOLOGY STANDARDS FOR WATER QUALITY. AT ALL TIMES WHILE THIS SITE IS UNDER CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE WATER QUALITY STANDARDS ARE MET. REFER TO ALL NOTES REGARDING WATER QUALITY.
2. THE LOCATION OF UNDERGROUND UTILITIES ARE NOT SHOWN OR ARE SHOWN IN APPROXIMATE LOCATIONS ONLY BASED UPON TIE'S TO SURFACE STRUCTURES. BEFORE ANY CONSTRUCTION ACTIVITIES OCCUR IT WILL BE NECESSARY TO CONTACT THE LOCAL LOCATE SERVICE FOR UTILITY LOCATIONS.
3. EROSION MEASURES CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL BE ALLOWED, CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF–SITE PROPERTIES
4. ANTI–DUMP MESSAGE DISKS SHALL BE INSTALLED ADJACENT TO ALL PROPOSED CATCH BASINS
5. INLET PROTECTION TO BE PROVIDED FOR CATCH BASINS EXPOSED TO SEDIMENT, SEE DETAIL SHEET C3.11
6. A SEPARATE BUILDING DEMOLITION PERMIT IS REQUIRED. SUBMITTAL OF DISPOSAL SITE AND ANTICIPATED HAUL ROUTES REQUITED PRIOR TO PRE–CONSTRUCTION MEETING.
7. SUBMITTAL OF HAUL ROUTES TO KITSAP COUNTY FOR SITE DEBRIS REMOVAL IS REQUIRED PRIOR TO THE PRE–CONSTRUCTION CONFERENCE.





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NORMAN LEE OLSON
37919
REGISTERED PROFESSIONAL ENGINEER
03.29.2022

CENTRAL KITSAP FIRE & RESCUE STATION 45

S.D.A.P. & A.C.U.P.

3735 TRENTON AVE NE, BREMERTON, WA 98310

Portion of the Southeast Quarter of Section 1, Township 24 North, Range 1 East, W.M. in Kitsap County, Washington

PROJECT # 21-11568

BID SET

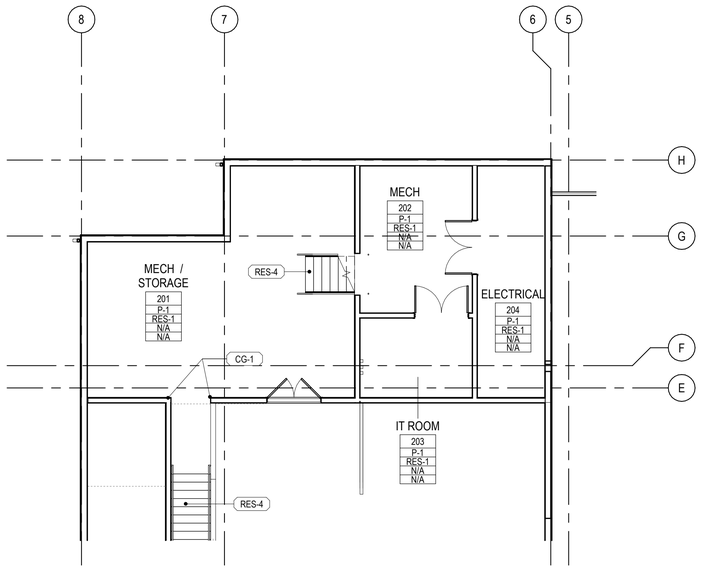
ISSUE DATE APRIL 4, 2022

REVISION SCHEDULE

DEMOLITION & T.E.S.C. PLAN

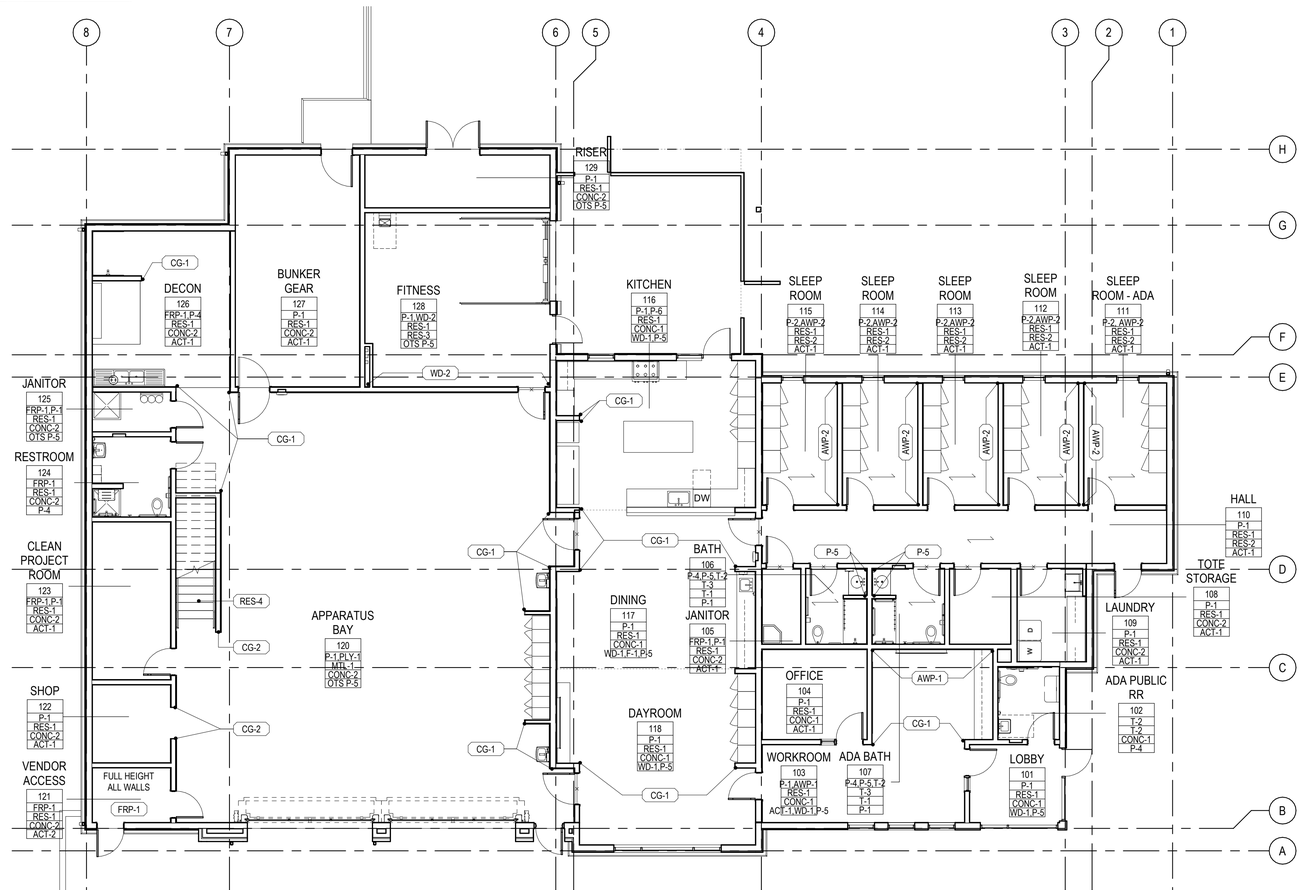
SHEET #

C3.00



2 FINISH PLAN - LEVEL 2

1/8" = 1'-0"



1 FINISH PLAN - LEVEL 1

1/8" = 1'-0"

INTERIOR FINISH LEGEND

TAG	MATERIAL
ACT-1	ACOUSTIC CEILING TILE
ACT-2	ACOUSTIC CEILING TILE
AWP-1	ACOUSTICAL WALL PANEL
AWP-2	ACOUSTICAL WALL PANEL
CG-1	CORNER GUARDS
CG-2	WALL GUARDS
CONC-1	POLISHED CONCRETE
CONC-2	SEALED CONCRETE
F-1	DECORATIVE FILM
FRP-1	FIBERGLASS REINFORCED WALL PANELING
L-1	METAL LOCKERS
LAM-1	HIGH PRESSURE LAMINATE
LAM-2	HIGH PRESSURE LAMINATE
MTL-1	STAINLESS STEEL WALL BASE
P-1	INTERIOR PAINT
P-2	INTERIOR PAINT
P-3	INTERIOR PAINT
P-4	INTERIOR PAINT
P-5	INTERIOR PAINT
PLY-1	PLYWOOD WALL PANEL
QTZ-1	QUARTZ COUNTERTOP
QTZ-2	QUARTZ COUNTERTOP
RES-1	RUBBER BASE
RES-2	LUXURY VINYL FLOOR
RES-3	RUBBER ATHLETIC FLOORING
RES-4	RUBBER STAIR TREAD
RS-1	ROLLER SHADE BLACK OUT, TOP DOWN
RS-2	ROLLER SHADE LIGHT FILTERING; BOTTOM UP
RS-3	ROLLER SHADE LIGHT FILTERING; TOP DOWN
SOL-1	SOLID SURFACE
SST-1	STAINLESS STEEL SHEET
T-1	FLOOR TILE
T-2	WALL TILE
T-3	WALL TILE BASE
WD-1	WOOD CEILING
WD-2	WOOD WALL PANEL

NOTES & LEGEND - FINISH PLAN

1. WALL FINISHES TRANSITION AT INSIDE CORNERS UNO.
2. WALL FINISHES EXTEND TO UNDERSIDE OF STRUCTURE AT AREAS WHERE NO CEILING OCCURS.
3. ALIGN FLOORING TRANSITIONS WITH DOOR LEAF UNO.
4. ALL INTERIOR WALLS RECEIVE P-1 PAINT UNO.
5. ALL WALLS RECEIVE RES-1 WALL BASE UNO.
6. SEE INTERIOR ELEVATIONS FOR ADDITIONAL VERTICAL FINISH INFORMATION.
7. WALLS BEHIND PLY-1 WOOD WALL PANELS SHALL BE PAINTED TO MATCH ADJACENT FINISH.

ROOM NAME — ROOM TAG W/ TYP ROOM FINISHES

100
FIN-1 — WALL
FIN-2 — BASE
FIN-3 — FLOOR
FIN-4 — CEILING

FIN-1 | FIN-2 — FLOOR FINISH TRANSITION

TRANSITION LINE

FINISH DIRECTION

ACCENT WALL FINISH EXTENT

CORNER GUARD

WALL GUARD

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DAVID A. FERGUS
STATE OF WASHINGTON

STATION 45
CENTRAL KITSAP FIRE & RESCUE
3725 TRENTON AVE
BREMERTON, WA 98310

PROJECT # 2020110.02
PERMIT SET
ISSUE DATE APRIL 14, 2022

REVISION SCHEDULE		
2	BID CHANGES	4/27/2022

AHJ APPROVAL STAMP

FINISH PLAN - FINISH LEGEND

SHEET #
A23.01

NOTES & LEGEND - FLOOR PLAN LEVEL

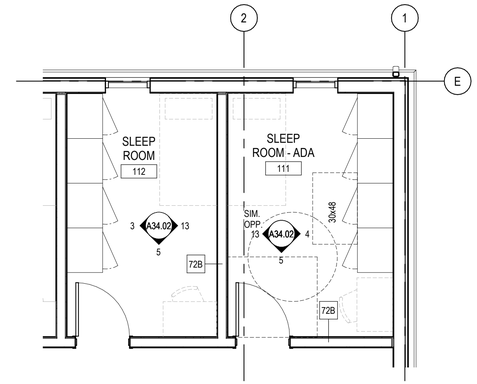
1. DIMENSIONS ARE TO ROUGH FRAMING OR TO FACE OF EXISTING FINISHES, TYP UNO.
2. DIMENSIONS INDICATED AS "MIN" OR "CLR" ARE FROM NEAREST FINISH SURFACE, INCLUDING TRIM.
3. ROUGH DOOR OPENINGS ARE LOCATED 4" FROM NEAREST INTERSECTING WALL FRAMING, TYP UNO.
4.

ROOF OVERHANG

OWNER FURNISHED ITEM - SEE F&E PLAN

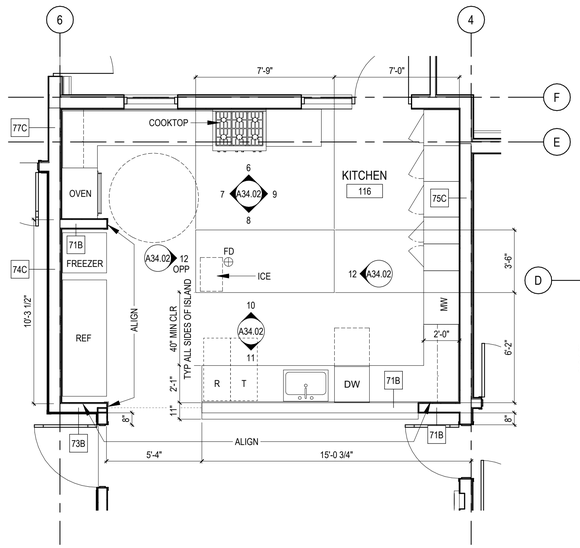
5' DIAMETER TURNING SPACE

CLEAR FLOOR SPACE 30" X 48" UNO



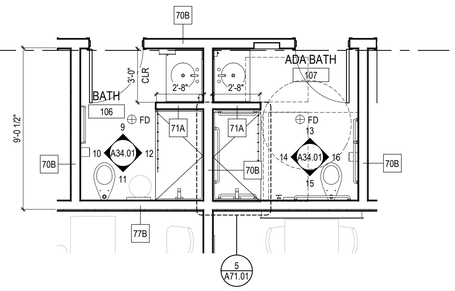
3 FLOOR PLAN - SLEEP ROOMS

1/4" = 1'-0"



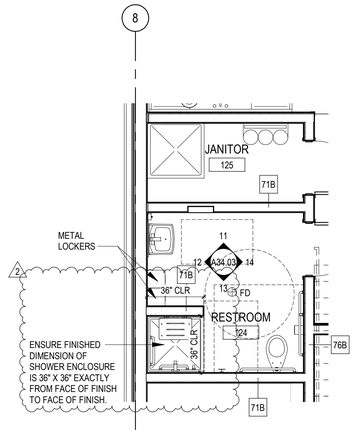
7 FLOOR PLAN - KITCHEN

1/4" = 1'-0"



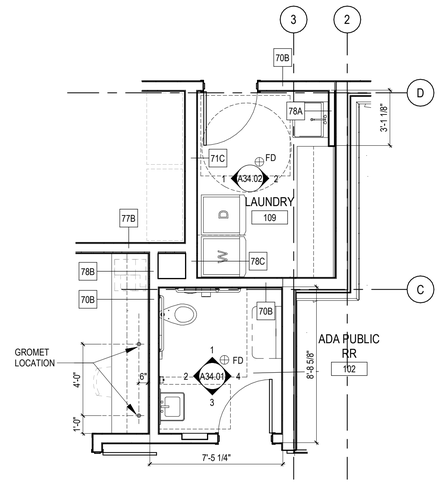
2 FLOOR PLAN - BATH

1/4" = 1'-0"



5 FLOOR PLAN - RESTROOM & JANITOR

1/4" = 1'-0"



1 FLOOR PLAN - ADA PUBLIC RR & LAUNDRY

1/4" = 1'-0"

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2	BID CHANGES	4/27/2022

AHJ APPROVAL STAMP

ENLARGED FLOOR PLANS & FLOOR PLAN LEGEND

SHEET #
A26.01

NOTES & LEGEND - REFLECTED CEILING PLAN

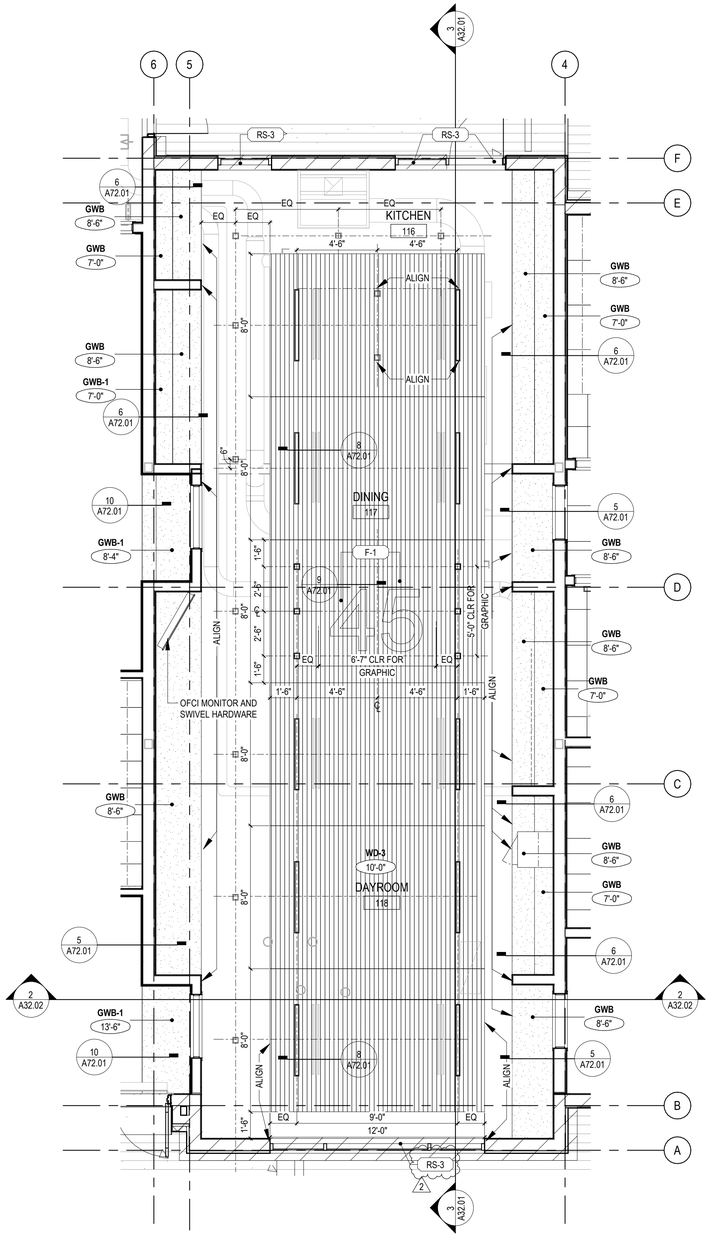
1. ARCHITECTURAL RCP PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO MEP DRAWINGS FOR DETAILED SCOPE OF SYSTEMS.
2. CEILING FIXTURES ARE CENTERED IN CEILING TILE OR CENTERED IN ROOM, UNO.
3. DIMENSIONS IN CEILING PLANS ARE TO FACE OF FINISH, UNO.
4. GRAPHIC REPRESENTATION OF LIGHTING TYPES MAY BE NOT TO SCALE.

CEILING

- ACT 2X2
- GWB
- WOOD SLAT CEILING
- OPEN TO STRUCTURE
- LEVEL 1 NOT SHOWN FOR CLARITY
- METAL SOFFIT

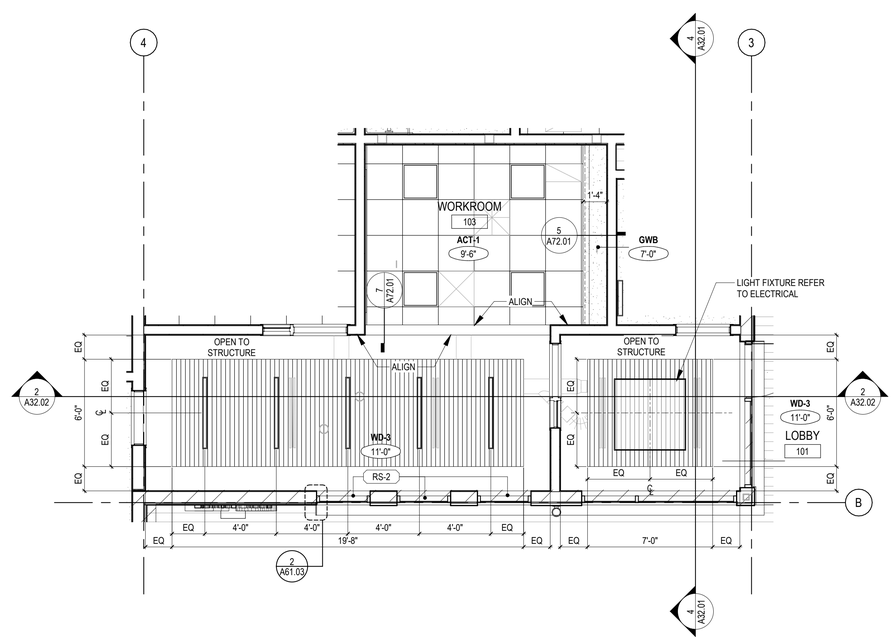
MEP

- RECESSED DOWNLIGHT, SQUARE - SEE LIGHTING PLAN FOR FIXTURE TYPE
- PENDANT, SQUARE - SEE LIGHTING PLAN FOR FIXTURE TYPE
- RECESSED TROFFER, 2X2
- PENDANT LINEAR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- SURFACE MOUNT LINEAR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- PENDANT LINEAR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- DECORATIVE SCONCE - SEE LIGHTING PLAN FOR FIXTURE TYPE
- WALL MOUNT LINEAR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- UNDERCOUNTER - SEE LIGHTING PLAN FOR FIXTURE TYPE
- RECESSED DOWNLIGHT, EXTERIOR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- WALL MOUNT, EXTERIOR - SEE LIGHTING PLAN FOR FIXTURE TYPE
- SEE MECHANICAL, SIZES MAY VARY



2 ENLARGED RCP - DINING, KITCHEN & DAYROOM

1/4" = 1'-0"



1 ENLARGED RCP - LOBBY & WORKROOM

1/4" = 1'-0"

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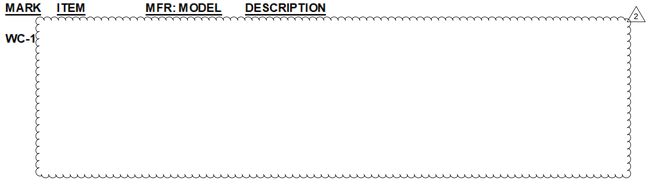
2	BID CHANGES	4/27/2022

AHJ APPROVAL STAMP

ENLARGED REFLECTED CEILING PLANS & LEGEND

SHEET #
A28.01

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	MFR: MODEL	DESCRIPTION
WC-1			
WC-2	WATER CLOSET (ADA)	KOHLER: K-96057	FLOOR-MOUNT, ELONGATED BOWL, 16-7/8" HEIGHT, ADA, INSTALL FLUSH HANDLE TOWARDS OPEN SIDE OF RESTROOM PER ADA.
	SEAT	BEMIS: 1955C	WHITE PLASTIC, OPEN FRONT, W/O COVER.
	FLUSH VALVE	SLOAN: WES-111	DUAL-FLUSH VALVE. PROVIDES 1.6 GPF FOR SOLID WASTE & 1.1 GPF FOR LIQUID WASTE. ANTI-MICROBIAL HANDLE.
LAV-1	LAVATORY	KOHLER: K-2205	17" X 14" OVAL BOWL, UNDERMOUNT, VIT. CHINA, WHITE, ADA
	FAUCET	SYMMONS: SLS-6710-1.0	5-3/8" SPOUT, AERATOR, SGL. LEVER HANDLE, SINGLE HOLE, CHROME PLATED, ADA, 1.0 GPM
	DRAIN		GRID TYPE. INSULATE DRAIN AND STOPS PER ADA REQUIREMENTS
	LAVATORY MIXING VALVE	SYMMONS: 7-210-CK	THERMOSTATIC MIXING VALVE, INTEGRAL CHECKS, 3/8" INLETS AND OUTLET, INSTALLED EXPOSED MOUNTED BELOW LAVATORIES. MUST COMPLY WITH ASSE 1070.
LAV-2	LAVATORY	KOHLER: K-2007	21-1/4" X 18-1/8", WALL MOUNT, VIT. CHINA, SINGLE HOLE, WHITE, CONCEALED ARM CARRIER, ADA.
	FAUCET	SYMMONS: SLS-6710-0.5	5-3/8" SPOUT, AERATOR, SGL. LEVER HANDLE, SINGLE HOLE, CHROME PLATED, ADA, 0.5 GPM
	DRAIN		GRID TYPE. INSULATE DRAIN AND STOPS PER ADA REQUIREMENTS
	LAVATORY MIXING VALVE	SYMMONS: 7-210-CK	THERMOSTATIC MIXING VALVE, INTEGRAL CHECKS, 3/8" INLETS AND OUTLET, INSTALLED EXPOSED MOUNTED BELOW LAVATORIES. MUST COMPLY WITH ASSE 1070.
SH-1	SHOWER	N/A	TILE SHOWER SURROUND BY ARCHITECT.
	SHOWER VALVE	SYMMONS: 9601-PLR	PRESSURE BALANCING MIXING VALVE WITH INTEGRAL SERVICE STOPS, 1.75 GPM SHOWER HEAD, WATERSENSE. PROVIDE TEMPTROL PRESSURE BALANCING VALVE.
	DRAIN	SCHLUTER: KL1B 19 EB 120	KERDI-LINE LINEAR DRAIN, "SQUARE" STYLE, 47-1/4" GRATE ASSEMBLY LENGTH, BRUSHED STAINLESS STEEL. CENTER DRAIN ALONG BACK WALL OF SHOWER. PROVIDE CHANNEL BODY WITH CENTER OUTLET.
SH-2	SHOWER (ADA)	N/A	TILE SHOWER SURROUND BY ARCHITECT.
	SHOWER VALVE	SYMMONS: S9608PLR15TRM	36" SLIDE BAR, ADA, WATERSENSE, 1.5 GPM FLOW RESTRICTOR. PROVIDE TEMPTROL PRESSURE BALANCING VALVE.
	DRAIN	SCHLUTER: KL1B 19 EB 120	KERDI-LINE LINEAR DRAIN, "SQUARE" STYLE, 47-1/4" GRATE ASSEMBLY LENGTH, BRUSHED STAINLESS STEEL. CENTER DRAIN ALONG BACK WALL OF SHOWER. PROVIDE CHANNEL BODY WITH END OUTLET.
SH-3	SHOWER (ADA)	FREEDOM: APA3939BFPAN	39" x 39" SHOWER PAN, ADA, ACRYLIC, WHITE, CENTER DRAIN. SHOWER ENCLOSURE BY ARCHITECT.
	SHOWER VALVE	SYMMONS: S9608PLR15TRM	36" SLIDE BAR, ADA, WATERSENSE, 1.5 GPM FLOW RESTRICTOR. PROVIDE TEMPTROL PRESSURE BALANCING VALVE.
	DRAIN		PERFORATED GRID STRAINER, CHROME.
NOTE: SHOWER MODELS THAT INCLUDE A FLANGE AT FLOOR THRESHOLD TO BE INSTALLED TO CONCEAL FLANGE.			
FS-1	FLOOR SINK	ZURN: Z1960-1	8" DIAMETER, 6" DEEP, 2" OUTLET, CAST IRON BODY WITH WHITE ACID RESISTANT PORCELAIN, DOME STRAINER, LESS GRATE. PROVIDE TRAP PRIMER. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST. AND/OR COVERING.**
RD	ROOF DRAIN	ZURN: Z-100-C-R	15" DIA. C.I. BODY, 3" PIPE SIZE, ALUM. DOME, UNDER-DECK CLAMP. OMIT DOMES WHEN UNDER PAVERS
OD	ROOF DRAIN	ZURN: Z-100-C-R-W2	15" DIA. C.I. BODY, 3" PIPE SIZE, ALUM. DOME, UNDER-DECK CLAMP. 2" HIGH DAM. OMIT DOMES WHEN UNDER PAVERS.

MARK	ITEM	MFR: MODEL	DESCRIPTION
S-1	KITCHEN SINK	ELKAY: DLRS332210	33"X22"X10-1/8" DEEP, SINGLE COMPARTMENT, #18 GAUGE STAINLESS STEEL, DROP IN.
	FAUCET	DANZE: D455258	22-3/4" PRE RINSE FAUCET, SINGLE LEVER, CHROME, 1.75 GPM. SINGLE HOLE.
	INSTA HOT FAUCET	INSINKERATOR HC-WAVEC-SS	INSTA HOT WATER DISPENSER FAUCET, FILTERED COLD WATER, 2/3 GALLON HOT WATER TANK (120 V PLUG IN CONNECTION - 6.25 AMP, 750 WATTS).
	DRAIN		CRUMB CUP STRAINER, 1 1/2" TAILPIECE, STAINLESS STEEL.
S-2	SINK (KITCHEN)	ELKAY: ELUHAD161655PD	18-1/2"X18-1/2"X5-3/8" DEEP, SINGLE COMPARTMENT, #18 GAUGE STAINLESS STEEL, UNDERMOUNT, ADA.
	FAUCET	CHICAGO: 201-AGN2AE36-317AB	11" HIGH X 5" SWINGING GOOSENECK, 1.5 GPM, BLADE HANDLES. ADA.
	INSTA HOT FAUCET	INSINKERATOR HC-WAVEC-SS	INSTA HOT WATER DISPENSER FAUCET, FILTERED COLD WATER, 2/3 GALLON HOT WATER TANK (120 V PLUG IN CONNECTION - 6.25 AMP, 750 WATTS).
	DRAIN		CRUMB CUP STRAINER, 1 1/2" TAILPIECE, STAINLESS STEEL. INSULATE DRAIN AND STOPS PER ADA WHEN SINK IS MOUNTED AT ADA HEIGHT.
NOTE: CONTRACTOR SHALL VERIFY CABINET DIMENSIONS BEFORE ORDERING SINK.			
S-3	SINK	ELKAY: CHS1716	16-3/4" X 15-1/2" X 13" WALL MOUNT, STAINLESS STEEL, SINGLE HOLE, SEE ARCH FOR MOUNTING HEIGHTS.
	FAUCET	SLOAN: ETF-500-LAM	GOOSENECK SPOUT, WALL MOUNT, SINGLE HOLE, 1.5 GPM, ADA, CHROME, SENSORED, BELOW DECK MANUAL MIXING VALVE, HARDWIRED BOX MOUNT TRANSFORMER, 120V / 1 PHASE.
S-4	UTILITY SINK	FIAT: FL-1	FLOOR MOUNTED LAUNDRY TUB, SINGLE COMPARTMENT, ANGLED LEGS.
	FAUCET	T&S BRASS: B-0228	DECK MOUNTED, LEVER HANDLES, ADA.
S-5	SINK (DECON)	ELKAY: WELDBILT	CUSTOM 14 GAUGE 304 STAINLESS STEEL SINK. TWO COMPARTMENT (DIMENSIONS 18"X18"X14"), FULL LENGTH 8" HIGH BACKSPLASH, DRAIN-BOARDS SLOPE TO SINK, STAINLESS STEEL TUBULAR LEGS, 1/4" RADIUS COVED CORNERS. SEE ARCHITECTURAL DETAIL FOR DIMENSIONS AND DETAILS AND PROVIDE NECESSARY FAUCET HOLES.
	FAUCET	T & S BRASS: B-2187	WALL MOUNTED FITTING, 10" SWING SPOUT W/AERATOR, W/ RUBBER HOSE & SPRAY VALVE. CHROME FINISH. MOUNT ABOVE CENTER BOWL. 1.42 GPM
	EMERGENCY EYE WASH	HAWS: 7610	WALL MOUNTED, ABS PLASTIC HEADS, 2.5 GPM FLOW CONTROLS, PULL DOWN ACTIVATIONS, UNIVERSAL EMERGENCY SIGN. PROVIDE WITH HAWS PREPACKAGED TEMPERED WATER SYSTEM MODEL 9201EFE. MOUNT EYEWASH ON WALL TO THE RIGHT OF BOWL IN LOCATION THAT DOES NOT CONFLICT WITH FAUCET AND ALLOWS HEADS TO BE ABOVE BOWL WHEN PULLED DOWN FOR USE.
	DRAIN	ELKAY: LK25RT	2" DIAMETER TAILPIECE, ROTARY LEVER OPERATED DRAIN OUTLET
FD-1	FLOOR DRAIN	ZURN: Z-415-S	2" C.I. BODY, 5" SQ. ADJ. NICKEL BRONZE STRAINER, 2" OUTLET, TRAP PRIMER TAPPING. PROVIDE TRAP PRIMERS FOR ALL INSTALLATIONS EXCEPT SHOWERS. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST./COVERING.**
FD-2	FLOOR DRAIN	ZURN: Z-415-S	2" C.I. BODY, 5" SQ. ADJ. NICKEL BRONZE STRAINER, 3" OUTLET, TRAP PRIMER TAPPING. PROVIDE TRAP PRIMERS FOR ALL INSTALLATIONS EXCEPT SHOWERS. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST./COVERING.**
FD-3	FLOOR DRAIN W/FUNNEL	ZURN: Z-415-S	2" C.I. BODY, 7" SQ. ADJ. NICKEL BRONZE STRAINER, TRAP PRIMER TAPPING. PROVIDE TRAP PRIMERS FOR ALL INSTALLATIONS EXCEPT SHOWERS. PROVIDE WITH ZURN Z329-7 FUNNEL. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST./COVERING.**
FD-4	FLOOR DRAIN (WOOD CONST.)	SIOUX CHIEF: 822-2ANR	ADJUSTABLE ROUND NICKEL BRONZE STRAINER, DECK FLANGE, PVC BODY WITH SCHEDULE 40 ABS HUB CONNECTION. PROVIDE TRAP PRIMER AND CONDENSATE FUNNEL. **REFER TO FLOOR DRAIN DETAIL FOR DRAIN CONST. AND/OR COVERING. BEFORE ORDERING VERIFY DRAIN STRAINER HEIGHT ADJUSTMENT IS COMPATIBLE WITH FLOORING FOR STRAINER TO BE INSTALLED FLUSH WITH FLOOR.**

MARK	ITEM	MFR: MODEL	DESCRIPTION
TD-1	TRENCH DRAIN	ACO: S100K	6" WIDE X **4" DEEP CHANNEL MIN.**, SECTIONAL DRAINS (FIELD FABRICATE LENGTH TO MATCH PLANS) PRECAST PRESLOPED POLYMER CONCRETE SYSTEM WITH SLOTTED DUCTILE IRON GRATE, CLASS F RATED.
	CATCH BASIN	ACO: SK901D	6" WIDE X 25" DP X 20" LONG, PRECAST POLYMER CONCRETE BASIN WITH SLOTTED DUCTILE IRON GRATE, CLASS F RATED. PROVIDE WITH REMOVABLE TRASH BUCKET.
TD-2	TRENCH DRAIN	ACO: S200K	8" WIDE X 16" DP SECTIONAL DRAIN (FIELD FABRICATE LENGTH TO MATCH PLANS) PRECAST PRESLOPED POLYMER CONCRETE SYSTEM W SLOTTED DUCTILE IRON GRATE, CLASS A RATED. SELECT DRAIN DEPTH F DEEPEST POSSIBLE CONNECTION TO CATCH BASIN.
	CATCH BASIN	ACO: SK2-902D	8" WIDE X 33" DP X 20" LONG, PRECAST POLYMER CONCRETE BASIN WITH SLOTTED DUCTILE IRON GRATE, CLASS A RATED. PROVIDE VENTED TRAP ON CATCH BASIN OUTLET. PROVIDE WITH REMOVABLE TRASH BUCKET.
HB-1	EXTERIOR HOSE BIBB (WHEEL HANDLE)	WOODFORD: 19	FREEZE PROOF TYPE, AUTOMATIC DRAINING, WHEEL HANDLE.
HB-2	HOSE BIBB (LEVER HANDLE)	WOODFORD: 40HT-LH	BRASS CONST., 3/4" HOSED END, VAC. BKR., HALF TURN LEVER HANDLE, CHROME PLATED.
HB-3	HOSE STATION (HOT & COLD)	LEONARD: SW-75-EVBD	INT. VACUUM BREAKER, DIAL THERMOMETER, 3/4" HOSE THREAD. PROVIDE LEONARD 18100 MOUNTING PLATE.
	HOSE	LEONARD: 10-HDH	10' HEAVY DUTY HOSE
	NOZZLE	LEONARD: N-2	STANDARD NOZZLE
HB-4	BOOTWASH HOSE BIBB	T&S BRASS B-0680	HOT AND COLD BEDPAN WASHER, 68" PVC HOSE AND SPRAY VALVE WITH EXTENDED NOZZLE, VACUUM BREAKER, WALL HOOK.
HB-5	HOSE BIBB (RESTROOM)	WOODFORD: RB74	BRASS CONST., 3/4" HOSED END, VAC. BKR., LOOSE KEY, WALL BOX, CHROME PLATED.
HR	WATER HOSE REEL	REELCRAFT: CA33112 L	HAND CRANK HOSE REEL ON MOUNTING CHANNEL. PROVIDE WITH 75 FEET OF 3/4" HOSE & WALL MOUNTING RAIL.
DF	DRINKING FOUNTAIN	ELKAY: LMABF8WSSK	BOTTLE FILL/DRINKING FOUNTAIN, 8.0 GPH REFRIGERATED, FILTERED, WALL-MOUNT, ADA, 20 GA. STAINLESS STEEL, 120V / 1 PHASE.
LB	LAUNDRY BOX	SIOUX CHIEF: 696-G2313	ABS OUTLET BOX 1/2" HW & 1/2" CW, WATER HAMMER ARRESTORS, 2" DRAIN.
SV	SERVICE VALVE	SIOUX CHIEF: 696-G1010	1/2" SERVICE STOP FOR SUPPLY WATER, WATER HAMMER ARRESTORS, OUTLET BOX, 11-1/2" X 7-1/4" BOX.
ET	DOMESTIC EXPANSION TANK	AMTROL: ST-12C	STEEL CONST. W/INTERNAL DIAPHRAGM 11" DIA. X 15" HIGH, ASME RATED.
CP	CIRC. PUMP	ARMSTRONG: ASTRO 225SSU	3.5 GPM @ 10 HEAD, 115 VOLT/1 PHASE, FLA 0.55, 83 WATTS, STAINLESS STEEL PUMP BODY.
MV	MIXING VALVE	HEAT TIMER: ETV PLATINUM PLUS	1" ELECTRONIC MIXING VALVE COMPLETE ASSEMBLY INCLUDING IMMERSION SENSORS, STAINLESS VALVE, ACTUATOR AND CONTROL MODULE (120V/1 PHASE). MOUNT CONTROL MODULE ON WALL AND PROVIDE SYSTEM WITH HOT, COLD, AND MIXED WATER SENSORS.
WH	WATER HEATER	LAARS: LUHE100T199E3N	100 GAL. CAP., 235 GPH RECOVERY @ 100 DEG. F TEMP. RISE. 66 - 199 MBH MODULATING NATURAL GAS INPUT, PVC COMBUSTION AIR & GAS VENT, 97% EFF., 1000 LBS (DRY), 1900 LBS (WET), 115 VOLT.
SS-1	SERVICE SINK	FIAT: TSB3002	36" X 36" X 12" DEEP, FLOOR MOUNT BASIN, PROVIDE WITH 889-CC MOP HANGER, MSG3636 WALL GUARDS, AND 832AA HOSE AND BRACKET.
	FAUCET	T&S BRASS B-0665-CR-BSTR	WALL MOUNT WITH BRACE, VACUUM BREAKER, BUCKET HOOK, 3/4" HOSE THREAD, INTEGRAL CHECKS VALVES.
SS-2	SERVICE SINK	FIAT: TSBC1610	24" X 24" X 12" DEEP, FLOOR MOUNT BASIN, PROVIDE WITH 889-CC MOP HANGER, MSG2424 WALL GUARDS, AND 832AA HOSE AND BRACKET.
	FAUCET	T&S BRASS: B-0665-CR-BSTR	WALL MOUNT WITH BRACE, VACUUM BREAKER, BUCKET HOOK, 3/4" HOSE THREAD, INTEGRAL CHECKS VALVES.
GOB	GAS OUTLET BOX	BURNABY: BBQ-SS-50	BRUSHED STAINLESS STEEL BOX WITH LOW PRESSURE NATURAL GAS CONNECTION. 1/2" NPT PIPE CONNECTION AND 1/2" QUICK DISCONNECT PLUG INCLUDED.

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PROJECT # 21023

BID SET

ISSUE DATE APRIL 4, 2022

REVISION SCHEDULE		

AHJ APPROVAL STAMP

SCHEDULES

SHEET #
P00.03

ELECTRICAL SYMBOLS LEGEND

REFERENCE SYMBOLS

- E-1 — DETAIL NUMBER / SHEET
- FLAG NOTE
- 1 — REVISION TAG
- AHU-1 — MECHANICAL EQUIPMENT
- XX kA — FAULT CURRENT TAG

FIRE ALARM SYMBOLS

- OR — COMBINATION SMOKE/FIRE DAMPER
- FACP — FIRE ALARM CONTROL PANEL
- FARA — FIRE ALARM REMOTE ANUNCIATOR
- FIRE ALARM STROBE LIGHT
- SD — FIRE ALARM SMOKE DETECTOR
- SC — FIRE ALARM COMBINATION SMOKE DETECTOR / CARBON MONOXIDE ALARM

WIRING SYMBOLS

- BREAK (CONTINUATION)
- CAP
- STUB DOWN
- STUB UP
- CONDUIT / CABLING CONCEALED IN CEILING OR WALL
- CONDUIT / CABLING CONCEALED UNDERGROUND OR IN CEILING SPACE OF LEVEL BELOW
- G — GROUNDING CONDUCTOR(S) PER CODE
- FLEXIBLE CONDUIT

LOW VOLTAGE SYSTEMS SYMBOLS

- PUSHBUTTON. WALL-MOUNTED.
- JUNCTION BOX: WALL, FLOOR AND CEILING MTD
- COMBINATION RF COAX / DATA/ PHONE OUTLET WALL, FLOOR AND CEILING MTD
- COMBINATION DATA / PHONE OUTLET WALL, FLOOR AND CEILING MTD
- DATA OUTLET WALL, FLOOR AND CEILING MTD
- PHONE OUTLET WALL, FLOOR AND CEILING MTD
- CR — CARD / FOB READER WALL/ MULLION AND BOLLARD MTD
- DS — SECURITY DOOR POSITION MONITOR
- ES — ELECTRIC STRIKE
- KP — KEYPAD WALL/ MULLION AND BOLLARD MTD
- CK — COMBINATION CARD READER/ KEYPAD WALL/ MULLION AND BOLLARD MTD (2)
- RX — REQUEST TO EXIT SENSOR
- EL — ELECTRIC LOCK
- WP / F — CCTV CAMERA LOCATION. WP = WEATHERPROOF F = FUTURE LOCATION; PREWIRE ONLY INTERIOR LOCATIONS; PREWIRE, BOX AND CONDUIT AT EXTERIOR LOCATIONS.

POWER SYSTEMS SYMBOLS

- PANELBOARD: SURFACE, FLUSH MOUNTED. DASHED LINE = CLEARANCE (TYPICAL)
- ELECTRICAL DISTRIBUTION EQUIPMENT. SEE PLANS FOR TYPE, DIMENSIONS, NAME, ETC. DASHED LINE = CLEARANCE (TYPICAL)
- CONNECTION TO EQUIPMENT BY OTHERS
- CONNECTION TO MOTOR
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH
- VFD — VARIABLE FREQUENCY DRIVE
- EMERGENCY POWER OFF BUTTON
- GROUND BAR
- GROUND ROD
- JUNCTION BOX: WALL, FLOOR AND CEILING MTD
- RECEPTACLE, DUPLEX: WALL, FLOOR AND CLG MTD; PARALLEL SHADED = HALF-SWITCHED
- RECEPTACLE, DUPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE
- RECEPTACLE, DOUBLE DUPLEX: WALL, FLOOR AND CLG MTD; PARALLEL SHADED = HALF-SWITCHED
- RECEPTACLE, DOUBLE DUPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE
- RECEPTACLE, SIMPLEX: WALL, FLOOR AND CLG MTD
- RECEPTACLE, SIMPLEX: WALL MTD ABOVE BACKSPLASH, GFCI-TYPE
- SPECIALTY RECEPTACLE: WALL, FLOOR AND CLG MTD. NEMA TYPE AS INDICATED ON PLANS.

TYPICAL DEVICE ANNOTATIONS:

- 702 — ON ALTERNATE POWER: 700, 701 AND 702 SYSTEMS PER NEC
- WP — WEATHERPROOF
- GFI — GFCI TYPE
- C — FULLY CONTROLLED (NOT HALF-SWITCHED)
- USB — DUPLEX RECEPTACLE WITH TWO USB-A OUTLETS

LUMINAIRE SYMBOLS

- EM — SHADING AND/ OR "EM" INDICATES EMERGENCY EGRESS LUMINAIRES
- FL1 / 3a — TYPICAL LUMINAIRE ANNOTATIONS: FL1 = LUMINAIRE TYPE; 3 = CIRCUIT NUMBER; c = SWITCH LEG; Z1.2 = CONTROL ZONE

CONTROL SYMBOLS

- M — MOTORIZED CONTROL DAMPER
- THERMOSTAT
- $2PDX, dc — WALL SWITCH / LOW VOLTAGE WALL STATION. SUPERSCRIPT INDICATES SWITCH TYPE (BELOW), SUBSCRIPT INDICATES SWITCHLEGS / RELAYS CONTROLLED; FOR MULTI-POLE WALL STATIONS, CONTROL FOR EACH POLE SEPARATED BY COMMA (I.E. SWITCHLEGS a AND b CONTROLLED BY ONE POLE, c ANOTHER).
- $WP — WEATHERPROOF, TYPICAL
- $ — WALL SWITCH, LINE VOLTAGE, 1-POLE
- $3 — WALL SWITCH, LINE VOLTAGE, 3-WAY
- $TS — WALL SWITCH, LINE VOLTAGE, TIMER SWITCH
- $1P — LOW VOLTAGE WALL STATION, 1-POLE, ON/OFF
- $DX — LOW VOLTAGE WALL STATION, 1-POLE, ON/OFF AND RAISE/LOWER
- $2P — LOW VOLTAGE WALL STATION, 2-POLE, ON/OFF
- $2PDX — LOW VOLTAGE WALL STATION, 2-POLE, ON/OFF AND RAISE/LOWER
- OS — COMBINATION OCCUPANCY SENSOR SWITCH, WALL-MOUNTED
- OS OS — OCCUPANCY SENSOR: WALL, CLG MTD
- PC — PHOTO CELL, CLG MTD
- OP OP — COMBINATION PHOTO CELL / OCCUPANCY SENSOR: WALL, CLG MTD

RISER DIAGRAM SYMBOLS

- 100AT / GFP / 50AT — CIRCUIT BREAKER, ENCLOSED CIRCUIT BREAKER AT = TRIP AMPACITY GFP = GROUND FAULT PROTECTION PER CODE
- 100AF — FUSED SWITCH. AF= FUSE RATING
- SWITCH
- CONTACTOR/ RELAY - NORMALLY CLOSED
- CONTACTOR/ RELAY - NORMALLY OPEN
- C — CONTACTOR COIL
- POTENTIAL TRANSFORMER. GROUND PER CODE.
- CURRENT TRANSFORMER
- DM — DIGITAL METER
- M M — UTILITY METER SOCKET WITH METER; PER UTILITY REQUIREMENTS; REMOTE MOUNTED.
- CONNECTION TO GROUND
- GROUND BAR
- PIPE GROUND PER CODE
- UFER GROUND PER CODE

DRAWING LIST

E00.01	COVER SHEET
E00.02	NOTES
E00.03	SINGLE-LINE DIAGRAM
E00.04	SCHEDULES & LOAD CALCULATIONS
E10.01	ELECTRICAL SITE PLAN
E10.02	SITE ILLUMINANCE CALCULATION PLAN
E22.00	FLOOR PLAN - CRAWL SPACE - POWER
E22.01A	FLOOR PLAN - LEVEL 1 - POWER
E22.01B	FLOOR PLAN - LEVEL 1 - MECHANICAL & PLUMBING EQPT CONNECTIONS
E22.02	FLOOR PLAN - LEVEL 2 - POWER
E22.03	ROOF PLAN - POWER
E30.01	LUMINAIRE SCHEDULE
E30.02	ENERGY CODE FORMS
E30.03	LIGHTING AND RECEPTACLE CONTROLS
E32.00	FLOOR PLAN - CRAWL SPACE - LIGHTING
E32.01	FLOOR PLAN - LEVEL 1 - LIGHTING
E32.02	FLOOR PLAN - LEVEL 2 - LIGHTING
E42.00	FLOOR PLAN - CRAWL SPACE - PRELIMINARY SYSTEMS
E42.01	FLOOR PLAN - LEVEL 1 - PRELIMINARY SYSTEMS
E42.02	FLOOR PLAN - LEVEL 2 - PRELIMINARY SYSTEMS
E62.01	DETAILS
E62.02	DETAILS

CODES

2020 NATIONAL ELECTRICAL CODE WITH STATE AND LOCAL AMENDMENTS
2018 WASHINGTON STATE ENERGY CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL BUILDING CODE WITH STATE AND LOCAL AMENDMENTS
2018 INTERNATIONAL FIRE CODE WITH STATE AND LOCAL AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE WITH STATE AND LOCAL AMENDMENTS
2018 UNIFORM PLUMBING CODE WITH STATE AND LOCAL AMENDMENTS
AMERICANS WITH DISABILITIES ACT (ADA)

ABBREVIATIONS

A, AMP	AMPERES	LBS	POUNDS
AB	ABOVE BACKSPLASH	LCP	LIGHTING CONTROL PANEL
AC	ALTERNATING CURRENT	LCZ	LIGHTING CONTROL ZONE
ACT	ACOUSTICAL CEILING TILE	LF	LINEAL FOOT
ADA	AMERICANS WITH DISABILITIES ACT	LRA	LOCKED ROTOR AMPS
ADJ	ADJUSTABLE	LTG	LIGHTING
AF	AMPERE RATING OF FUSE OR CB FRAME		
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
AIC	AMPERE INTERRUPTING CAPACITY,	MED	MEDIUM
	AMPERE INTERRUPTING RATING	MEP	MECHANICAL, ELECTRICAL
AL	ALUMINUM (ALLOY)		& PLUMBING
ALT	ALTERNATE		& PLUMBING
APPROX	APPROXIMATE	MEZZ	MEZZANINE
ARCH	ARCHITECTURAL/ARCHITECT	MIN	MINIMUM OR MINUTE
AS	AMPERE RATING OF SWITCH	MISC	MISCELLANEOUS
AT	CB TRIP SETTING (AMPS)	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MNT	MOUNTED
AUTO	AUTOMATIC	MOCP	MAXIMUM OVERCURRENT PROTECTION
AUX	AUXILIARY	MW	MICROWAVE
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
		N	NEUTRAL
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BHP	BRAKE HORSE POWER	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	-, NEG	NEGATIVE
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS'
C	CONDUIT		ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NL	NIGHT LIGHT (UNSWITCHED)
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	NOM	NOMINAL
CO	CARBON MONOXIDE	NPT	NATIONAL PIPE THREAD
CO2	CARBON DIOXIDE	NTS	NOT TO SCALE
CONN	CONNECTED		
CT	CURRENT TRANSFORMER	OC	ON CENTER
CU	COPPER	OCC	OCCUPANCY
		OD	OUTSIDE DIAMETER
dB	DECIBEL	OS	OCCUPANCY SENSOR
DC	DIRECT CURRENT		
° OR DEG.	DEGREE	P	POLE
DIA	DIAMETER	PC	PHOTOCELL
DISC	DISCONNECT	PERF	PERFORATED
DIST	DISTRIBUTION	Φ OR PH	PHASE
DIV	DIVISION	PNL	PANELBOARD
DN	DOWN	POC	POINT OF CONNECTION
DP	DISTRIBUTION PANEL	PSF	POUNDS PER SQUARE FOOT
DWG(S)	DRAWING(S)	PSI	POUNDS PER SQUARE INCH
DZ	DAYLIGHT CONTROL ZONE (LIGHTING)		
		QTY	QUANTITY
EA	EACH		
EM	EMERGENCY (700 SYSTEM)	REQ	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RLX	RELOCATE EXISTING
EF	EXHAUST FAN	RM	ROOM
EQUIP, EQPT	EQUIPMENT	RMC	RIGID METALLIC CONDUIT
EWC	ELECTRIC WATER COOLER	RNC	RIGID NON-METALLIC CONDUIT (PVC)
EWH	ELECTRIC WATER HEATER	RPM	REVOLUTIONS PER MINUTE
EX	EXISTING/EXISTING TO REMAIN	RTU	ROOF TOP UNIT
FA	FIRE ALARM	RV	RELIEF VALVE
FACP	FIRE ALARM CONTROL PANEL	RX	REMOVE EXISTING
FARA	FIRE ALARM REMOTE ANUNCIATOR		
FC	FOOTCANDLES	SA	SUPPLY AIR
FF	FINISHED FLOOR	SD	SMOKE DETECTOR
FLA	FULL LOAD AMPS	SF	SQUARE FOOT
FLEX	FLEXIBLE	SPD	SURGE PROTECTION DEVICE
FP	FIRE PROTECTION	SPEC	SPECIFICATION
FPM	FEET PER MINUTE	S/S, OR SS	STAINLESS STEEL
FPS	FEET PER SECOND	STD	STANDARD
FSD	FIRE SMOKE DAMPER	SWBD	SWITCHBOARD
FT	FEET/FOOT		
FTG	FOOTING	T&P	TEMPERATURE AND PRESSURE
FOIC	FURNISHED BY OWNER		RELIEF VALVE
	INSTALLED BY CONTRACTOR	TBD	TO BE DETERMINED
FOIO	FURNISHED BY OWNER	TC	TIMECLOCK
	INSTALLED BY OWNER	TEL	TELEPHONE
		TELECOM	TELECOMMUNICATIONS
G, GND	GROUND	TEMP	TEMPERATURE
GA	GAUGE	TOB	TOP OF BEAM
GAL	GALLON	TOC	TOP OF CONCRETE
GALV	GALVANIZED	TOD	TOP OF DECK
GC	GENERAL CONTRACTOR	TOJ	TOP OF JOIST
GEN	GENERATOR	TOS	TOP OF SLAB/TOP OF STEEL
GFI	GROUND FAULT CIRCUIT INTERRUPTER	T&P	TEMPERATURE & PRESSURE
GFP	GROUND FAULT PROTECTION	TSP	TOTAL STATIC PRESSURE
GRC	GALVANIZED RIGID STEEL CONDUIT	TYP	TYPICAL
H	HEIGHT	UL	UNDERWRITERS LABORATORY
HP	HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
HTR	HEATER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HVAC	HEATING VENTILATING AND AIR CONDITIONING	UTR	UP THROUGH ROOF
HW	HOT WATER	V	VOLT
HX	HEAT EXCHANGER	VA	VOLT AMPS
HZ	HERTZ	VERT	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
ID	INSIDE DIAMETER/DIMENSION	VOL	VOLUME
IESNA	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	W	WATT
IG	ISOLATED GROUND	W/	WITH
IMC	INTERMEDIATE METAL CONDUIT	W/IN	WITHIN
IN	INCH/INCHES	W/O	WITHOUT
		WP	WEATHERPROOF
KCMIL	THOUSAND CIRCULAR MILS	WT	WEIGHT
KO	KNOCK OUT		
KW	KILOWATT/KILOWATTS	XFR	TRANSFORMER
KWH	KILOWATT HOUR(S)		
KVA	KILOVOLT AMPS		

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PROJECT # 21023

BID SET

ISSUE DATE APRIL 4, 2022

REVISION SCHEDULE		
1	BID CHANGES	4/20/2022

AHJ APPROVAL STAMP

COVER SHEET

SHEET #
E00.01

FEEDER/ CIRCUIT SCHEDULE

MARK	CONDUIT (#SETS) SIZE	CONDUCTORS PER SET: AL OR CU	PHASE / NEUTRAL (N) (QTY) SIZE	GROUND (1 PER SET UNO)
800.4U	(3) 4-INCH	AL	(3) 400 KCMIL / (1) 400 KCMIL N	NOTE #1
800.4	(3) 4-INCH	AL	(3) 400 KCMIL / (1) 400 KCMIL N	#3/0
800.3	(3) 4-INCH	AL	(3) 400 KCMIL	#3/0
600.4	(2) 4-INCH	AL	(3) 500 KCMIL / (1) 500 KCMIL N	#2/0
600.3	(2) 4-INCH	AL	(3) 500 KCMIL	#2/0
500.4	(2) 3-INCH	AL	(3) 350 KCMIL / (1) 350 KCMIL N	#1/0
500.3	(2) 3-INCH	AL	(3) 350 KCMIL	#1/0
450.4	(2) 3-INCH	AL	(3) 300 KCMIL / (1) 300 KCMIL N	#1/0
450.3	(2) 3-INCH	AL	(3) 300 KCMIL	#1/0
400.4	(2) 3-INCH	AL	(3) 250 KCMIL / (1) 250 KCMIL N	#1
400.3	(2) 3-INCH	AL	(3) 250 KCMIL	#1
350.4	(1) 4-INCH	AL	(3) 700 KCMIL / (1) 700 KCMIL N	#1
350.3	(1) 4-INCH	AL	(3) 700 KCMIL	#1
300.4	(1) 4-INCH	AL	(3) 500 KCMIL / (1) 500 KCMIL N	#2
300.3	(1) 4-INCH	AL	(3) 500 KCMIL	#2
250.4	(1) 3-INCH	AL	(3) 350 KCMIL / (1) 350 KCMIL N	#2
250.3	(1) 3-INCH	AL	(3) 350 KCMIL	#2
225.4	(1) 3-INCH	AL	(3) 300 KCMIL / (1) 300 KCMIL N	#2
225.3	(1) 3-INCH	AL	(3) 300 KCMIL	#2
200.4	(1) 3-INCH	AL	(3) 250 KCMIL / (1) 250 KCMIL N	#4
200.3	(1) 3-INCH	AL	(3) 250 KCMIL	#4
175.4	(1) 3-INCH	AL	(3) #4/0 / (1) #4/0 N	#4
175.3	(1) 3-INCH	AL	(3) #4/0	#4
150.4	(1) 2-INCH	AL	(3) #3/0 / (1) #3/0 N	#4
150.3	(1) 2-INCH	AL	(3) #3/0	#4
125.4	(1) 2-INCH	AL	(3) #2/0 / (1) #2/0 N	#4
125.3	(1) 2-INCH	AL	(3) #2/0	#4
100.4	(1) 2-INCH	AL	(3) #1/0 / (1) #1/0 N	#6
100.3	(1) 2-INCH	AL	(3) #1/0	#6
90.4	(1) 1.5-INCH	CU	(3) #2 / (1) #2 N	#8
90.3	(1) 1.5-INCH	CU	(3) #2	#8
80.4	(1) 1.5-INCH	CU	(3) #4 / (1) #4 N	#8
80.3	(1) 1.5-INCH	CU	(3) #4	#8
70.4	(1) 1.5-INCH	CU	(3) #4 / (1) #4 N	#8
70.3	(1) 1-INCH	CU	(3) #4	#8
60.4	(1) 1-INCH	CU	(3) #6 / (1) #6 N	#10
60.3	(1) 1-INCH	CU	(3) #6	#10
60.2N	(1) 1-INCH	CU	(2) #6 / (1) #6 N	#10
60.2	(1) 1-INCH	CU	(2) #6	#10
60.1	(1) 1-INCH	CU	(1) #6 / (1) #6 N	#10
50.4	(1) 1-INCH	CU	(3) #6 / (1) #6 N	#10
50.3	(1) 1-INCH	CU	(3) #6	#10
50.2N	(1) 1-INCH	CU	(2) #6 / (1) #6 N	#10
50.2	(1) 1-INCH	CU	(2) #6	#10
50.1	(1) 1-INCH	CU	(1) #6 / (1) #6 N	#10
40.4	(1) 1-INCH	CU	(3) #8 / (1) #8 N	#10
40.3	(1) 1-INCH	CU	(3) #8	#10
40.2N	(1) 1-INCH	CU	(2) #8 / (1) #8 N	#10
40.2	(1) 1-INCH	CU	(2) #8	#10
40.1	(1) 1-INCH	CU	(1) #8 / (1) #8 N	#10
30.4	(1) 1-INCH	CU	(3) #10 / (1) #10 N	#10
30.3	(1) 1-INCH	CU	(3) #10	#10
30.2N	(1) 1-INCH	CU	(2) #10 / (1) #10 N	#10
30.2	(1) 1-INCH	CU	(2) #10	#10
30.1	(1) 1-INCH	CU	(1) #10 / (1) #10 N	#10
20.4	(1) 1-INCH	CU	(3) #12 / (1) #12 N	#12
20.3	(1) 1-INCH	CU	(3) #12	#12
20.2N	(1) 1-INCH	CU	(2) #12 / (1) #12 N	#12
20.2	(1) 1-INCH	CU	(2) #12	#12
20.1	(1) 1-INCH	CU	(1) #12 / (1) #12 N	#12

NOTES:

A. AL= ALUMINUM (STABILOY CONDUCTORS WITH XHHW-2 INSULATION); CU= COPPER (COPPER CONDUCTORS WITH THHN/THWN INSULATION).

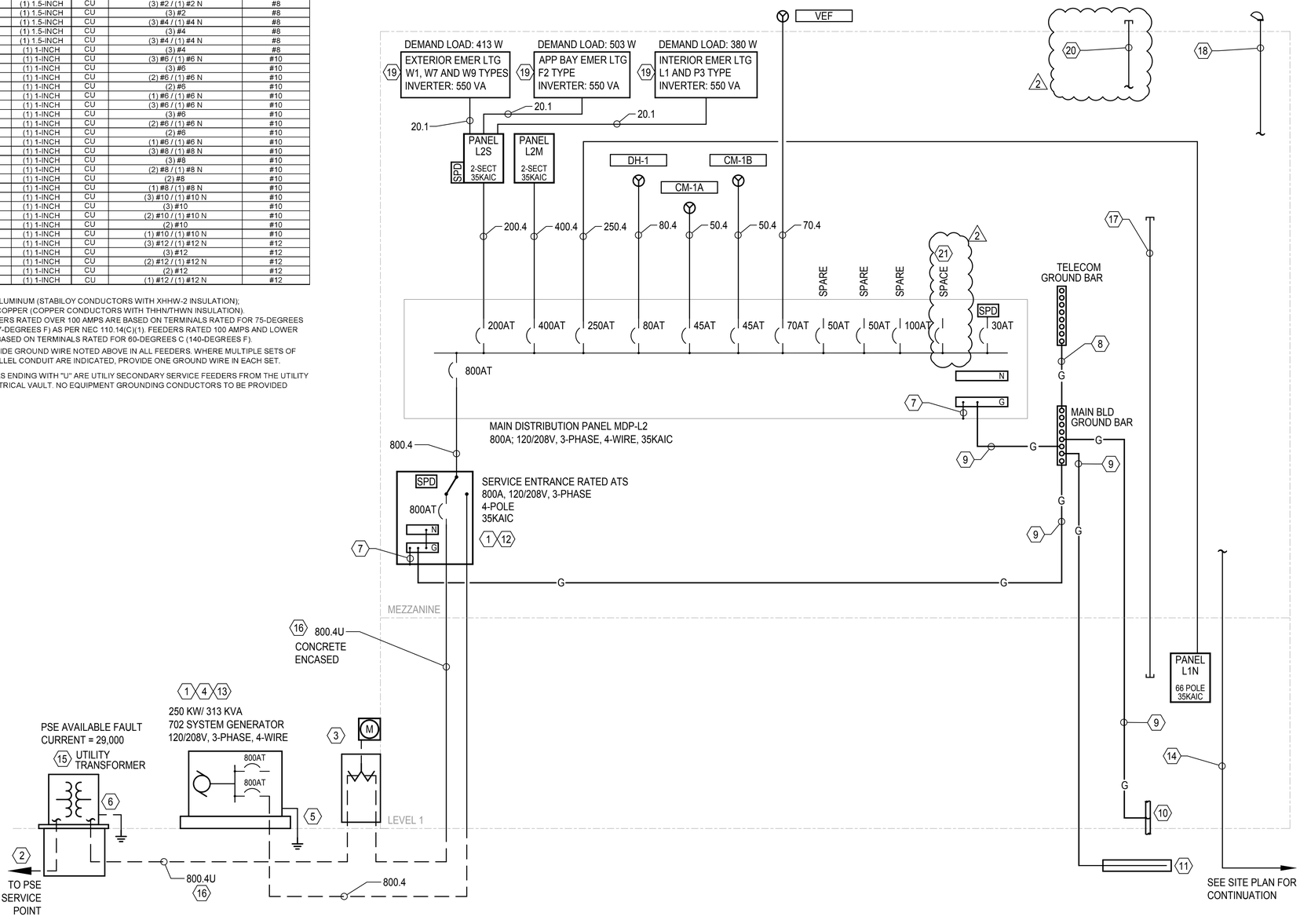
B. FEEDERS RATED OVER 100 AMPS ARE BASED ON TERMINALS RATED FOR 75-DEGREES C (167-DEGREES F) AS PER NEC 110.14(C)(1). FEEDERS RATED 100 AMPS AND LOWER ARE BASED ON TERMINALS RATED FOR 60-DEGREES C (140-DEGREES F).

C. PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS. WHERE MULTIPLE SETS OF PARALLEL CONDUIT ARE INDICATED, PROVIDE ONE GROUND WIRE IN EACH SET.

1. MARKS ENDING WITH "U" ARE UTILIY SECONDARY SERVICE FEEDERS FROM THE UTILITY ELECTRICAL VAULT. NO EQUIPMENT GROUNDING CONDUCTORS TO BE PROVIDED UNO.

NOTE: AIC VALUES INDICATED IN THIS DRAWING ARE FOR BIDDING PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE SHORT CIRCUIT/ FAULT CURRENT AND ARC FLASH STUDIES BASED ON ACTUAL AVAILABLE FAULT CURRENT AND ELECTRICAL INSTALLATION (CONDUCTOR LENGTHS, BREAKERS, ETC). SEE SPECIFICATION FOR ADDITION INFORMATION AND REQUIREMENTS.

FUTURE EV CHARGING CAPACITY:
LESS THAN 20 STALLS PROVIDED; NO EV CHARGING INFRASTRUCTURE REQUIRED PER WASHINGTON STATE BUILDING CODE SECTION 427.2 EXCEPTION.



FLAG NOTES (X):

1. THE CONTRACTOR SHALL HIRE A FACTORY SERVICE REPRESENTATIVE TO START UP, TEST, AND COMMISSION THE GENERATOR AND ATS. THIS SCOPE SHALL INCLUDE A MINIMUM 8-HOUR GENERATOR RUNTIME AFTER THE BUILDING IS COMPLETE AND ALL SYSTEMS ARE OPERATIONS. COORDINATE THIS TESTING WITH THE GENERAL CONTRACTOR AND ARCHITECT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2. TO CONNECTION POINT WITH UTILITY. PROVIDE TRENCHING, SHORING, COMPACTION, COVER AND RESTORATION PER UTILITY REQUIREMENTS. FINAL CONNECTIONS TO UTILITY TRANSFORMER BY UTILITY. COORDINATE INSPECTION WITH UTILITY PRIOR TO COVER. COORDINATE FINAL ROUTING AND TRENCH DIMENSIONS WITH PSE AND ALL OTHER TRADES; MAINTAIN PSE REQUIRED CLEARANCES TO OTHER UTILITIES/ SERVICES.

3. PROVIDE CT ENCLOSURE, CT MOUNTING BRACKETS WITH BOLT LUGS AND REMOTE UTILITY METER SOCKET INSTALLED PER PSE REQUIREMENTS. PROVIDE 1.25-INCH SCHEDULE 80 PVC CONDUIT FROM THE CT ENCLOSURE TO THE TEST SWITCH PORTION OF THE METER SOCKET PER PSE REQUIREMENTS FOR METERING CIRCUIT (CONDUCTORS BY PSE). COORDINATE INSTALLATION OF METER WITH UTILITY. SEE ELECTRICAL SITE PLAN AND POWER PLAN FOR PROPOSED LOCATION; FIELD VERIFY EXACT LOCATION WITH ARCHITECT, UTILITY AND MECHANICAL EQUIPMENT LOCATIONS.

4. PROVIDE EXTERIOR DIESEL GENERATOR IN ACOUSTIC ENCLOSURE WITH SUB-BASE TANK; SEE SPECIFICATIONS FOR ACOUSTIC ENCLOSURE REQUIREMENTS. GENERATOR AND SUBBASE TANK SHALL COMPLY WITH CURRENT FIRE CODES AS ENFORCED BY THE LOCAL AHJ. GENERATOR SIZED TO CARRY LOADS OF ENTIRE BUILDING AS A 702 SYSTEM (PER NEC). LIFE SAFETY (700) LOADS (EMERGENCY LTG) POWERED VIA EMERGENCY LIGHTING INVERTERS AND INTEGRAL BATTERY PACKS

   PROVIDE A SUB-BASE TANK WITH 72-HOURS OF FUEL (MINIMUM). HEIGHT OF GENERATOR PLUS FUEL TANK TO BE SUCH THAT THE OUTPUT BREAKER ON THE GENERATOR IS NOT HIGHER THAN 6'-7" ABOVE FINISHED GRADE MEASURED TO THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN ITS HIGHEST POSITION.

   OUTPUT BREAKER THAT SERVES BUILDING SHALL BE SERVICE ENTRANCE RATED. GENERATOR SHALL ALSO BE PROVIDED WITH A SECOND OUTPUT BREAKER FOR LOAD BANK TESTING.

   GENERATOR TO BE EPA CERTIFIED AS MEETING CURRENT EPA EMISSIONS REQUIREMENTS.

   BASIS OF DESIGN GENERATOR IS GENERAC SD250 WITH SUB-BASE TANK WITH 72 HOURS OF RUNTIME. FINAL GENERATOR PLUS FUEL TANK SELECTION PROVIDED FOR PROJECT SHALL FIT WITHIN CONFINES SHOWN ON SITE PLAN. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

5. PROVIDE SYSTEM BONDING JUMPER AND GROUND GENERATOR AS SEPARATELY DERIVED SYSTEM PER NEC 702.11(A) AND 250.30(A).

6. PROVIDE UTILITY SERVICE GROUNDING IN ACCORDANCE WITH NEC 250.24(A) AND UTILITY REQUIREMENTS.

7. EQUIPMENT TO BE PROVIDED WITH FACTORY-INSTALLED BONDING PLATE.

8. PROVIDE CONNECTIONS TO GROUND FROM TELECOM GROUND BAR PROVIDED AT TELECOM BACKBOARD (SEE PLANS). PROVIDE #6 AWG COPPER CONDUCTOR MINIMUM.

9. PROVIDE GROUNDING ELECTRODE COPPER CONDUCTOR PER NEC TABLE 250.66 AND NEC 050.62, 250.64, 250.66, 250.68, 250.70. PROVIDE #2/0 AWG COPPER CONDUCTOR UON.

10. METAL UNDERGROUND COLD WATER PIPE GROUNDING ELECTRODE PER NEC 250.52(A).

11. PROVIDE CONCRETE-ENCASED GROUNDING ELECTRODE (UFER GROUND) PER NEC 250.52(A). CONTRACTOR TO ENSURE CONCRETE WITH UFER GROUND IS IN DIRECT CONTACT WITH EARTH; USE FOOTINGS AS REQUIRED (INSULATION AND VAPOR BARRIER/ MEMBRANE USED AT FLOOR SLAB AND PORTIONS OF FOOTINGS; SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS).

12. SERVICE ENTRANCE RATED ATS. PROVIDE WITH INTEGRAL SURGE PROTECTION DEVICE. BONDED NEUTRAL SHALL OCCUR ON UTILITY SIDE OF ATS ONLY, NOT ON GENERATOR INPUT. GENERATOR IS GROUNDED AS SEPARATELY DERIVED SYSTEM; NEUTRAL BOND OCCURS AT GENERATOR OUTPUT BREAKER.

    CONTRACTOR TO PROVIDE MONITORING OF THE INTEGRITY OF THE GENERATOR START WIRES; PROVIDE 3-WIRE START WITH MONITORING PROVISIONS AT THE ATS AND THE GENERATOR CONTROLLER.

13. THE CONTRACTOR SHALL HIRE A THIRD-PARTY STRUCTURAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF WASHINGTON TO DESIGN SUPPORTS FOR GENERATOR/ SUBBASE TANK PER CODE AND LOCAL AHJ REQUIREMENTS. THE STRUCTURAL ENGINEER SHALL PROVIDE DRAWINGS AND CALCULATIONS STAMPED AND SIGNED. SEE SPECIFICATIONS FOR ADDITION REQUIREMENTS.

14. PROVIDE TWO (2) 4-INCH SCHEDULE 40 PVC CONDUITS WITH PULL ROPE FROM LEVEL 2 TO THE BUILDING EXTERIOR FOR FUTURE EQUIPMENT. SEE SITE PLAN AND E22.02 FOR ADDITIONAL INFORMATION.

15. EXTERIOR PAD-MOUNTED UTILITY TRANSFORMER INSTALLED ON NEW 4'-8" SQUARE BELOW-GRADE VAULT. INSTALLATION OF BELOW GRADE VAULT, PAD, AND TRANSFORMER BY PSE. CONTRACTOR TO PROVIDE GROUNDING, STAKING, SHORING, EXCAVATION, FILL, COVER AND RESTORATION PER PSE AND PROJECT REQUIREMENTS. SEE DRAWING E10.01, CIVIL SITE UTILITY PLANS AND PSE STANDARDS AND CONSTRUCTION LETTER FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

16. SECONDARY SERVICE FEEDERS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR PER PSE AND CODE REQUIREMENTS. SEE E10.01 FOR ROUTING. FINAL CONNECTIONS TO TRANSFORMER BY PSE. CONTRACTOR TO PROVIDE STAKING, TRENCHING,CONDUITS, CONDUCTORS, PULL VAULT, FILL, COVER, ETC PER CODE AND UTILITY REQUIREMENTS. PROVIDE CONCRETE ENCASEMENT WHERE SECONDARY FEEDERS ARE RUN THROUGH THE BUILDING. FINAL CONNECTIONS TO UTILITY TRANSFORMER BY UTILITY. COORDINATE INSPECTION WITH UTILITY PRIOR TO COVER. ELECTRICAL CONTRACTOR TO ENSURE SECONDARY SERVICE FEEDERS MATCH PSE'S BELOW-GRADE VAULT ENTRY ORIENTATION AND ARE COILED IN THE SAME DIRECTION AS PSE'S PRIMARY SERVICE CONDUCTORS. COORDINATE INSTALLATION WITH PSE.

17. PROVIDE FOUR (4) 2-INCH SPARE CONDUITS WITH PULLSTRING FROM THE LEVEL 2 ELECTRICAL ROOM TO THE CEILING SPACE ABOVE THE TOTE STORAGE ROOM FOR FUTURE USE. THESE ARE TO BE IN ADDITION TO ALL CONDUITS REQUIRED FOR POWER AND LOW VOLTAGE SYSTEMS FOR THE PROJECT AND ARE INTENDED TO BE AVAILABLE FOR FUTURE USE BY THE OWNER. COORDINATE EXACT LOCATION AND ROUTING WITH ALL OTHER TRADES. CAP OFF CONDUITS AND PROVIDE PERMANENT LABELING AT EACH END "SPARE CONDUIT" AND LOCATION OF OPPOSITE END.

18. CONTRACTOR TO PROVIDE 2-INCH CONDUIT WITH WEATHERHEAD FROM ANTENNA MAST ON ROOF TO LOW VOLTAGE ROOM. FIELD VERIFY EXACT LOCATION WITH OWNER'S LOW VOLTAGE SYSTEMS VENDORS AND STRUCTURAL. PROVIDE FLASHING AT ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS; SEE ARCHITECTURAL DETAILS AND #1 ON DRAWING E61.02. ANTENNA BY OTHERS. CONNECTION TO STRUCTURE TO BE VERIFIED BY STRUCTURAL ENGINEER.

19. CONTRACTOR TO PROVIDE EMERGENCY LIGHTING INVERTERS FOR EXTERIOR AND INTERIOR EMERGENCY LUMINAIRES WITHOUT INTEGRAL BATTERY PACKS NOTED AS EMERGENCY FIXTURES ON LIGHTING PLANS. PROVIDE PERMANENT LABELING ON EACH INVERTER IDENTIFYING LOCATION AND CIRCUIT OF LUMINAIRES SERVED. INVERTER SIZES SHOWN ARE BASED ON BASIS OF DESIGN LUMINAIRES/ WATTAGES NOTED IN THE LUMINAIRE SCHEDULE. IF APPROVED ALTERNATE LUMINAIRES ARE USED ON THE PROJECT, CONTRACTOR SHALL REVISE INVERTER SIZES AS REQUIRED. PROVIDE MYERS POWER PRODUCTS ILLUMINATOR LV OR PRE-BID-APPROVED EQUAL.

2

20. PROVIDE ONE 2-INCH CONDUIT WITH PULLSTRING FROM THE MAIN ELECTRICAL ROOM ON LEVEL 2 TO THE ROOF FOR FUTURE PV SYSTEMS PER WSEC. CAP OFF AND MAKE WEATHERTIGHT. PROVIDE PERMANENT LABELING ON EACH END, "SPARE CONDUIT FOR FUTURE PV."

21. PROVIDE SPACE FOR FUTURE 3-POLE, 150AT BREAKER FOR FUTURE PV SYSTEM AT OPPOSITE END OF BUS FROM MAIN BREAKER PER ENERGY CODE REQUIREMENTS.

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BID SET

ISSUE DATE APRIL 4, 2022

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△	BID CHANGES	4/20/2022

AHJ APPROVAL STAMP

SINGLE-LINE DIAGRAM

SHEET #
E00.03

FLAG NOTES (X):

1. PROVIDE POWER AND DISCONNECT FOR MOTORIZED GARAGE DOOR. GARAGE DOORS PROVIDED AT 480V, 3-PHASE WITH STEP-UP TRANSFORMERS/ CONTROL PANELS AND REMOTE PUSHBUTTON OPERATORS BY OTHERS. ELECTRICAL CONTRACTOR INSTALL AND CONNECT COMPLETE GARAGE DOORS, TRANSFORMERS / CONTROL PANELS AND DOOR OPERATORS PER CODE AND MANUFACTURER'S INSTRUCTIONS; SEE FLAG NOTE #30 FOR CONTROL PANEL LOCATIONS. GROUND AND BOND TRANSFORMERS PER CODE AND PROJECT SPECIFICATIONS. PROVIDE OVERCURRENT PROTECTION FOR EACH TRANSFORMER PER CODE REQUIREMENTS. FIELD VERIFY EXACT CONNECTION LOCATIONS AND REQUIREMENTS WITH EQUIPMENT PROVIDER AND ARCHITECT.

   PROVIDE ONE 3/4-INCH CONDUIT WITH PULLSTRING FROM EACH CONTROL PANEL TO THE ASSOCIATED REMOTE OPERATOR. PROVIDE ONE 1-INCH CONDUIT WITH PULLSTRING FROM THE DOOR CONTROL BOX TO THE GARAGE DOOR MOTOR LOCATION; PROVIDE BUSHINGS AT EACH CONDUIT END. CONFIRM EXACT LOCATIONS AND CONDUIT REQUIREMENTS WITH ARCHITECT AND DOOR INSTALLER.

2. PROVIDE CEILING-MOUNTED NEMA L5-20 RECEPTACLE AND DROP CORD WITH NEMA L5-20 PLUG AND NEMA 5-20R RECEPTACLE; SEE DETAIL #4, DRAWING E62.02 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DROP CORD TO BE LOCATED 10-FEET BACK FROM FRONT BUMPER LINE OF EACH BAY.

   ELECTRICAL CONTRACTOR TO ALSO PROVIDE ONE 10-FT SECTION OF UNISTRUT SUSPENDED FROM STRUCTURE AT EACH DROP CORD LOCATION CENTERED TO ONE SIDE OF THE DROP CORD WITH A STEEL RING BOLT INSTALLED WITHIN THE UNISTRUT TO ALLOW FOR FORWARD/ AFT ADJUSTMENT OF CORD LOCATION. AFTER FINAL CONFIRMATION OF DROP CORD LOCATION WITH OWNER, SECURE BOLT IN PLACE.

   FIELD VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER. COORDINATE INSTALLATION WITH STRUCTURAL, INFRARED TUBE HEATERS, VEHICLE EXHAUST RAILS AND ALL OTHER TRADES. CONNECT TO CIRCUITS INDICATED.

3. PROVIDE POWER CONNECTION FOR COOKTOP. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER. ROUTE CIRCUIT THROUGH CONTACTOR TO ALLOW FOR INTERCONNECTION WITH ALERTING SYSTEM FOR AUTOMATIC SHUT-OFF. SEE PANEL SCHEDULE. PROVIDE GFCI-TYPE BREAKER IN PANEL SCHEDULE PER CODE REQUIREMENTS.

4. PROVIDE FOUR (4) 2-INCH SPARE CONDUITS WITH PULLSTRING FROM THE LEVEL 2 ELECTRICAL ROOM TO THE CEILING SPACE ABOVE THE TOTE STORAGE ROOM FOR FUTURE USE. THESE CONDUITS ARE TO BE IN ADDITION TO ALL CONDUITS REQUIRED FOR POWER AND LOW VOLTAGE SYSTEM FOR THE PROJECT AND ARE INTENDED TO BE AVAILABLE FOR FUTURE USE BY THE OWNER. COORDINATE EXACT LOCATIONS AND ROUTING WITH ALL OTHER TRADES. CAP OFF CONDUITS AND PROVIDE PERMANENT LABELING AT EACH END "SPARE CONDUIT" AND LOCATION OF OPPOSITE END

5. PROVIDE GFCI-TYPE RECEPTACLE FOR DISHWASHER. FIELD VERIFY EXACT LOCATION WITH ALL OTHER TRADES; RECEPTACLE SHALL REMAIN ACCESSIBLE AFTER THE WORK OF ALL TRADES IS COMPLETE.

6. FIELD VERIFY ROUTING OF CONDUITS WITHIN WALLS WITH STRUCTURAL. COORDINATE PENETRATIONS THROUGH BEAMS FOR CONDUITS WITH GENERAL CONTRACTOR. TYPICAL, ALL LOCATIONS

7. DEVICES IN APP BAY AND ASSOCIATED AREAS TO BE MOUNTED AT LEAST +48-INCHES AFF UNLESS NOTED OTHERWISE.

8. FIELD VERIFY EXACT LOCATION OF FIRE ALARM REMOTE ANUNCIATOR WITH ARCHITECT AND FIRE ALARM CONTRACTOR.

9. PROVIDE LOCKABLE, WEATHERPROOF COVER AT ALL EXTERIOR RECEPTACLES. COVER SHALL MAINTAIN ITS WEATHERPROOF RATING WHILE IN USE AS PER NEC REQUIREMENTS.

10. INSTALL RECEPTACLE ABOVE COUNTERTOP FOR PRINTER. FIELD VERIFY LOCATION WITH OWNER AND ARCHITECT.

11. PROVIDE POWER CONNECTIONS AND DISCONNECTS FOR MOTORIZED ROLL UP DOOR. CONNECT COMPLETE PER CODE AND MANUFACTURERS' INSTRUCTIONS. FIELD VERIFY EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.

12. AT ALL OPEN AND ENCLOSED OFFICE AREAS:
    HALF SHADED RECEPTACLES INDICATED ARE TO BE SPLIT CIRCUITED; THE BOTTOM HALF OF EACH RECEPTACLE IS TO BE UNCONTROLLED, THE TOP HALF TO AUTOMATICALLY SHUT OFF WHEN NO OCCUPANTS ARE IN THE ROOM VIA THE LIGHTING CONTROL SYSTEM'S OCCUPANCY SENSOR(S) IN EACH SPACE. MANUFACTURER- INSTALLED LABELING IS TO BE PROVIDED AT EACH CONTROLLED OUTLET IN EACH RECEPTACLE TO CLEARLY INDICATED WHICH OUTLET IN EACH RECEPTACLE IS CONTROLLED.

    GFCI TYPE RECEPTACLES AND RECEPTACLES WITH USB CHARGING OUTLETS ARE NOT TO BE HALF SWITCHED. RECEPTACLES NOTED WITH "C" ARE TO BE FULLY CONTROLLED TO COMPLY WITH ENERGY CODE REQUIREMENTS. CONTRACTOR TO PROVIDE MANUFACTURER-INSTALLED LABELING ON BOTH OUTLETS OF CONTROLLED RECEPTACLE TO INDICATE THE ENTIRE RECEPTACLE IS CONTROLLED.

13. FIELD VERIFY EXACT LOCATIONS OF RECEPTACLES IN FITNESS ROOM WITH FINAL EQUIPMENT LAYOUT.

14. PROVIDE A 20-AMP, 125V DUPLEX RECEPTACLE WITH TWO USB TYPE A CHARGING OUTLETS AT LOCATIONS NOTED.

15. AT ALL RECEPTACLE LOCATIONS IN SLEEPING ROOMS PROVIDE 20-AMP, 125V, TAMPER-RESISTANT DUPLEX RECEPTACLES WITH TWO USB TYPE A CHARGING OUTLETS. RECEPTACLES IN SLEEPING ROOMS LAID OUT PER FURNITURE LAYOUT AS ALLOWED PER NEC 210.60(B). (2)

16. PROVIDE RECEPTACLES FOR STACKED MICROWAVES. FIELD VERIFY EXACT LOCATIONS WITH CABINETRY AND EQUIPMENT LAYOUT. PROVIDE GFCI TYPE CIRCUIT BREAKERS PER CODE REQUIREMENTS; SEE PANEL SCHEDULES.

17. PROVIDE SURFACE-MOUNTED REMOTE ANNUNCIATOR PANEL(S) FOR GENERATOR AND AUTOMATIC TRANSFER SWITCH; FIELD VERIFY LOCATION WITH ARCHITECT. SEE GENERATOR AND ATS SPECIFICATIONS FOR REQUIREMENTS. CONNECT TO CIRCUIT INDICATED PER CODE AND MANUFACTURER'S INSTRUCTIONS.

18. UTILITY SECONDARY SERVICE AND GENERATOR FEEDER ROUTED FROM BELOW GRADE UP TO ELECTRICAL ROOM ON LEVEL 2. CONCRETE ENCASED. SEE SINGLE-LINE DIAGRAM, SITE PLAN, AND E22.02 FOR ADDITIONAL INFORMATION. COORDINATE ROUTING WITH ALL OTHER TRADES.

19. SPARE CONDUITS TO BE ROUTED FROM BELOW GRADE TO LEVEL 2. SEE SINGLE-LINE DIAGRAM, SITE PLAN, AND E22.02 FOR ADDITIONAL INFORMATION. COORDINATE ROUTING WITH ALL OTHER TRADES.

20. INSTALL COUNTERTOP RECEPTACLES HORIZONTALLY ORIENTED AT SINK BACKSPLASH IN KITCHEN. FIELD VERIFY EXACT LOCATIONS.

21. GFCI PROTECTION FOR EQUIPMENT MAINTENANCE RECEPTACLE PER NEC 210.8(E) PROVIDED VIA GFCI-TYPE BREAKER ON CIRCUIT SERVING RECEPTACLES IN AREA AT NON-SLEEPING AREAS AND COMBINATION AFCI/ GFCI TYPE BREAKERS IN SLEEPING ROOMS. SEE PANEL SCHEDULES.

22. PROVIDE RECEPTACLE FOR DOUBLE BUILT IN OVENS. FIELD VERIFY EXACT LOCATIONS WITH CABINETRY AND EQUIPMENT LAYOUT. PROVIDE GFCI TYPE CIRCUIT BREAKERS PER CODE REQUIREMENTS; SEE PANEL SCHEDULES.

23. PROVIDE RECEPTACLE FOR SOAP DISPENSING SYSTEM. FIELD VERIFY LOCATION WITH EQUIPMENT PROVIDER. DO NOT INSTALL BELOW 48" AFF.

24. PROVIDE HARDWIRE POWER CONNECTION AND LOCKABLE DISCONNECT FOR WASHER EXTRACTOR. FINAL CONNECTION TO WASHER EXTRACTOR TO BE LIQUIDTIGHT FLEXIBLE CONDUIT WITH COPPER THHN CONDUCTORS. COORDINATE CONNECTION REQUIREMENTS AND LOCATIONS WITH EQUIPMENT PROVIDER. CONNECT COMPLETE PER CODE AND MANUFACTURER'S INSTRUCTIONS. COORDINATE DISCONNECT LOCATION WITH ALL OTHER TRADES TO ENSURE DISCONNECT REMAINS ACCESSIBLE AFTER ALL OTHER WORK IS COMPLETE.

25. FIELD VERIFY LOCATIONS OF RECEPTACLES IN THE LAUNDRY AND KITCHEN WITH FINAL APPLIANCE AND CABINETRY LAYOUTS.

26. FIELD VERIFY EXACT LOCATIONS OF RECEPTACLES BELOW THE WORK ROOM COUNTER WITH GROMMETS INSTALLED IN THE COUNTER. SEE ARCHITECTURAL ELEVATIONS.

27. FIELD VERIFY LOCATION OF RECEPTACLE FOR ICE MAKER WITH CABINETRY AND EQUIPMENT PROVIDER.

28. INSTALL RECEPTACLE WITHIN 12-INCHES OF THE COUNTERTOP. FIELD COORDINATE INSTALLATION WITH CABINETRY.

29. FIELD VERIFY FINAL LOCATION OF RECEPTACLE; INSTALL WITHIN 25 FT OF SECURED PARKING GATE MOTOR. SEE E10.01 AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. CONFIRM FINAL GATE MOTOR LOCATION WITH SYSTEM PROVIDER.

30. WALL-MOUNT CONTROL BOX WITH STEP-UP TRANSFORMER FOR APP BAY ROLL UP GARAGE DOORS AT LOCATION SHOWN; COORDINATE INSTALLATION WITH ARCHITECT AND STRUCTURAL. CONFIRM EXACT LOCATION WITH ARCHITECT. CONTROL BOX PROVIDED BY GARAGE DOOR MANUFACTURER, INSTALLED AND CONNECTED COMPLETE PER ELECTRICAL CONTRACTOR PER CODE AND MANUFACTURER'S INSTRUCTIONS. PROVIDE DISCONNECT PER CODE REQUIREMENTS. COORDINATE INSTALLATION WITH ALL OTHER TRADES; MAINTAIN REQUIRED CLEARANCES.

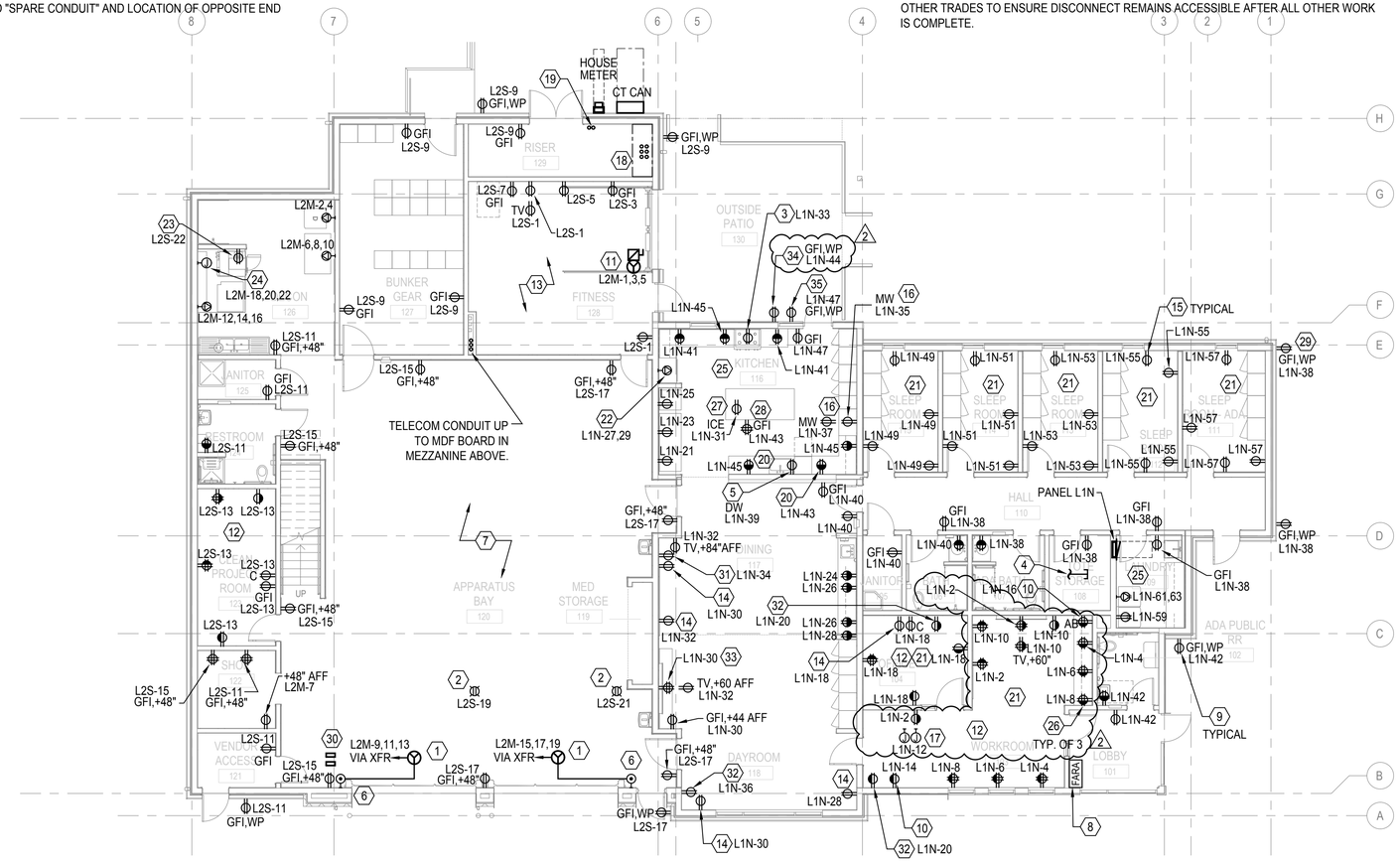
31. PROVIDE RECEPTACLE FOR ALERTING SYSTEM REMOTE TOUCH SCREEN. CONFIRM EXACT LOCATION WITH ALERTING SYSTEM VENDOR.

32. PROVIDE RECEPTACLES FOR ALERTING SYSTEM FLAT SCREEN MESSAGE BOARDS. FIELD VERIFY LOCATIONS WITH ALERTING SYSTEM VENDOR.

33. COORDINATE INSTALLATION WITH CABINETRY.

34. COORDINATE LOCATION OF RECEPTACLE FOR BBQ WITH ARCHITECT AND FINAL EQUIPMENT LOCATION.

35. FIELD VERIFY LOCATION OF RECEPTACLE WITH SEPTIC SYSTEM CONTROLLER PRIOR TO ROUGH-IN; LOCATE RECEPTACLE WITHIN 25-FT OF SEPTIC CONTROLLER. CONFIRM FINAL EQUIPMENT LOCATIONS WITH SEPTIC SYSTEM INSTALLER.



FLOOR PLAN - LEVEL 1 - POWER

SCALE: 1/8"=1'-0"

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PROJECT # 21023

BID SET

ISSUE DATE APRIL 4, 2022

REVISION SCHEDULE

⚠	BID CHANGES	4/20/2022

AHJ APPROVAL STAMP

FLOOR PLAN - LEVEL 1 POWER

SHEET #

E22.01A

FLAG NOTES (X):

1. FIELD VERIFY EXACT LOCATION OF FIRE ALARM CONTROL PANEL WITH ARCHITECT AND FIRE ALARM CONTRACTOR.

2. PROVIDE TWO (2) 4-INCH SCHEDULE 40 PVC CONDUITS WITH PULL ROPE FROM LEVEL 2 TO THE BUILDING EXTERIOR FOR FUTURE EQUIPMENT. CAP OFF CONDUIT ENDS WITHIN BUILDING. FIELD VERIFY EXACT LOCATION OF CONDUIT WITH ALL OTHER TRADES; MAINTAIN CODE AND UTILITY CLEARANCE REQUIREMENTS.

3. ELECTRICAL CONTRACTOR TO PROVIDE TWO 7-FT TALL, CHATSWORTH ADJUSTABLE SERVER RACKS WITH VERTICAL CABLE MANAGEMENT AND POWER STRIPS IN THE IT ROOM (OR PRE-APPROVED EQUAL). FIELD VERIFY LOCATIONS WITH DESIGN-BUILD LOW VOLTAGE CONTRACTOR. RACK IS TO BE BOLTED TO AND ELECTRICALLY ISOLATED FROM THE CONCRETE FLOOR SLAB.

   FIBER OPTIC RUNS TO TERMINATE IN A PATCH PANEL (PROVIDED BY DESIGN-BUILD LOW VOLTAGE CONTRACTOR) MOUNTED AT THE TOP OF ONE OF THE RACKS; CONFIRM SPECIFIC LOCATION WITH OWNER.

   ELECTRICAL CONTRACTOR TO PROVIDE NEMA TYPE RECEPTACLE AT EACH RACK FOR UPS EQUIPMENT PROVIDED BY THE OWNER. SEE FLAG NOTE #12, THIS DRAWING.

   PROVIDE AND INSTALL GROUND BAR AT EACH EQUIPMENT RACK, LISTED FOR INTENDED USE. BOND EACH EQUIPMENT RACK GROUND BAR TO MAIN BUILDING GROUND BAR USING NON-REVERSIBLE HIGH-COMPRESSION TWO-HOLE LUGS.

4. INSTALL FIRE RATED BACKBOARD MOUNTED TO WALLS INDICATED (CONFIRM WITH ARCHITECT). A/C GRADE SHEETS 4-FT X 8-FT X 3/4-INCH. TOP OF SHEETS TO BE 8'-6" AFF. ALL EDGES TO BE SMOOTH AND SPLINTER-FREE. PAINT TO MATCH FINISHED WALLS WITH FIRE RETARDANT PAINT.

5. PROVIDE ONE QUAD RECEPTACLE HIGH ON EACH RACK. FIELD VERIFY EXACT LOCATION WITH DESIGN-BUILD LOW VOLTAGE CONTRACTOR. EACH QUAD OUTLET SHALL BE CONNECTED TO A DEDICATED 120-VOLT, 20-AMP CIRCUIT.

6. PROVIDE 12-INCH CHATSWORTH BLACK LADDER STYLE CABLE TRAY UNLESS NOTED OTHERWISE (OR PRE-APPROVED EQUAL); CONFIRM SIZE AND ROUTING WITH DESIGN-BUILD LOW VOLTAGE CONTRACTOR. ALL CABLE TRAY SECTIONS ARE TO BE ELECTRICALLY BONDED TOGETHER PER CODE AND AHJ REQUIREMENTS AND CONNECTED TO THE BUILDING GROUNDING SYSTEM.

   BOND METAL CABLE TRAYS PER CODE REQUIREMENTS TO GROUND BAR USING #6 AWG STRANDED COPPER CONDUCTORS WITH GREEN JACKETS AND NON-REVERSIBLE HIGH-COMPRESSION TWO-HOLE LUGS. REMOVE PAINT FROM CABLE TRAY AT AREAS WHERE LUGS WILL BE INSTALLED PRIOR TO INSTALLING LUGS USING ANTIOXIDANT JOINT COMPOUND AND STAINLESS STEEL HARDWARE.

   BOND SECTIONS OF CABLE TRAYS USING #6 AWG STRANDED COPPER CONDUCTORS WITH GREEN JACKETS AND NON-REVERSIBLE HIGH-COMPRESSION TWO-HOLE LUGS. REMOVE PAINT FROM CABLE TRAY AT AREAS WHERE LUGS WILL BE INSTALLED PRIOR TO INSTALLING LUGS. TYPICAL FOR ALL CABLE TRAY SECTIONS/ RUNS.

7. THE OVERHEAD CABLE TRAY AND EQUIPMENT RACKS SHALL BE DESIGNED AND INSTALLED AS AN INTEGRATED SYSTEM CAPABLE OF SUPPORTING THE MAXIMUM RATED LOADS OF THE RACKS. SYSTEM SHALL MEET SEISMIC REQUIREMENTS OF CODE, THE LOCAL AHJ AND PER THE PROJECT'S STRUCTURAL ENGINEER. THE CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN DOCUMENTS STAMPED AND SIGNED BY THE THIRD PARTY STRUCTURAL ENGINEER FOR THESE SYSTEM WITH THE RACK AND CABLE TRAY SUBMITTAL. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

8. CONTRACTOR TO PROVIDE 2-INCH CONDUIT WITH WEATHERHEAD FROM ANTENNA MAST ON ROOF TO LOW VOLTAGE ROOM. FIELD VERIFY EXACT LOCATION WITH OWNER'S LOW VOLTAGE SYSTEMS VENDORS AND STRUCTURAL. PROVIDE FLASHING AT ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS; SEE ARCHITECTURAL DETAILS. ANTENNA BY OTHERS. CONNECTION TO STRUCTURE TO BE VERIFIED BY STRUCTURAL ENGINEER

9. SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH. SEE SINGLE-LINE DIAGRAM AND SPECIFICATIONS FOR REQUIREMENTS. EQUIPMENT TO BE USED ON PROJECT MUST FIT WITHIN DIMENSIONS SHOWN; MAINTAIN ALL CODE REQUIRED CLEARANCES. BASIS OF DESIGN MANUFACTURER IS ASCO SERVICE ENTRANCE RATED ATS.

10. CONTRACTOR TO PROVIDE POWER CONNECTION FOR HVAC SYSTEM CONTROLLER. FIELD VERIFY LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.

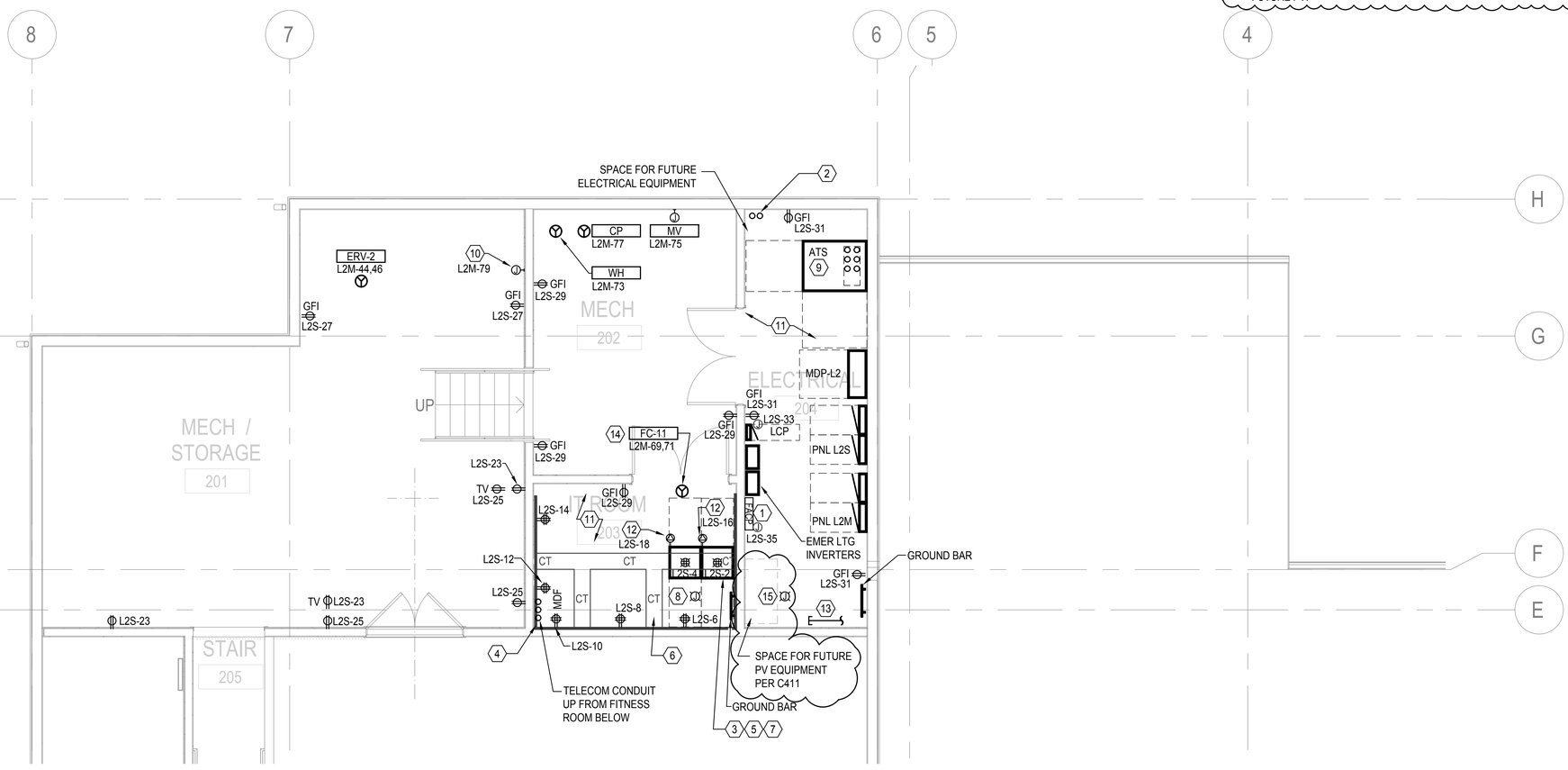
11. FOR OTHER THAN POWER AND TELECOM SERVICE ENTRY CONDUITS; HOLES IN FLOOR SHEATHING FOR CONDUITS SHALL BE OVERSIZED UP TO 1-INCH (5-INCHES DIAMETER HOLE MAXIMUM) AND SHALL BE LIMITED TO TWO (2) HOLES PER JOIST SPACE. SUBMIT PROPOSED HOLE LOCATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DRILLING. ADDITIONAL BLOCKING, NAILING, AND STRAPPING MAY BE REQUIRED PENDING HOLE LAYOUT. TYPICAL FOR ALL AREAS.

12. ELECTRICAL CONTRACTOR TO PROVIDE NEMA TYPE RECEPTACLE AT ALL RACKS FOR UPS EQUIPMENT FOR LOW VOLTAGE SYSTEMS. UPS EQUIPMENT WILL BE PROVIDED BY THE OWNER, INSTALLED BY THE ELECTRICAL CONTRACTOR. CONFIRM EXACT REQUIREMENTS AND LOCATIONS WITH DESIGN-BUILD LOW VOLTAGE CONTRACTOR AND OWNER. FOR BID PURPOSES, ASSUME ONE NEMA 5-30 RECEPTACLE AT THE BOTTOM OF EACH RACK. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN.

13. PROVIDE FOUR (4) 2-INCH SPARE CONDUITS WITH PULLSTRING FROM THE LEVEL 2 ELECTRICAL ROOM TO THE CEILING SPACE ABOVE THE TOTE STORAGE ROOM FOR FUTURE USE. THESE CONDUITS ARE TO BE IN ADDITION TO ALL CONDUITS REQUIRED FOR POWER AND LOW VOLTAGE SYSTEM FOR THE PROJECT AND ARE INTENDED TO BE AVAILABLE FOR FUTURE USE BY THE OWNER. COORDINATE EXACT LOCATIONS AND ROUTING WITH ALL OTHER TRADES. CAP OFF CONDUITS AND PROVIDE PERMANENT LABELING AT EACH END "SPARE CONDUIT" AND LOCATION OF OPPOSITE END.

14. EQUIPMENT PROVIDED BY OTHERS WITH REMOTE CONDENSATE PUMP. ELECTRICAL CONTRACTOR TO CONNECT COMPLETE BOTH FCU AND CONDENSATE PUMP TO CIRCUIT SHOWN PER CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE SEPARATE DISCONNECTS FOR FCU AND CONDENSATE PUMP AS REQUIRED BY CODE / AHJ. PROVIDE PERMANENT LABELING ON EACH DISCONNECT IDENTIFYING SPECIFIC EQUIPMENT SERVED AND CIRCUIT. CONFIRM EXACT CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.

15. PROVIDE ONE 2-INCH CONDUIT WITH PULLSTRING FROM THE MAIN ELECTRICAL ROOM ON LEVEL 2 TO THE ROOF FOR FUTURE PV SYSTEMS PER WSEC. CAP OFF AND MAKE WEATHERTIGHT. PROVIDE PERMANENT LABELING ON EACH END, "SPARE CONDUIT FOR FUTURE PV." (2)



FLOOR PLAN - LEVEL 2 - POWER

SCALE: 1/4"=1'-0"

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AHJ APPROVAL STAMP

FLOOR PLAN - LEVEL 2 POWER

SHEET #
E22.02

FLAG NOTES (X):

1. CONTRACTOR TO PROVIDE 2-INCH CONDUIT WITH WEATHERHEAD FROM ANTENNA MAST ON ROOF TO LOW VOLTAGE ROOM. FIELD VERIFY EXACT LOCATION WITH OWNER'S LOW VOLTAGE SYSTEMS VENDORS AND STRUCTURAL. PROVIDE FLASHING AT ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS; SEE ARCHITECTURAL DETAILS. ANTENNA BY OTHERS. CONNECTION TO STRUCTURE TO BE VERIFIED BY STRUCTURAL ENGINEER.

2. COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL RECEPTACLE AT MECHANICAL EQUIPMENT. SEE DETAIL #6, DRAWING E62.01.

3. PROVIDE POWER CONNECTION AND DISCONNECT FOR VEHICLE EXHAUST SYSTEM FAN. EQUIPMENT PROVIDED WITH VFD AND ENCLOSURE BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE SUPPORTS AND INSTALL DISCONNECT, VFD AND ENCLOSURE PER CODE AND MANUFACTURER'S REQUIREMENTS. FIELD VERIFY INSTALLATION REQUIREMENTS AND LOCATIONS WITH SYSTEM PROVIDER. ADVISE ENGINEER OF CONFLICTS.

4. ELECTRICAL CONTRACTOR TO PROVIDE MOTOR STARTER FOR EF-1 WITH AUXILIARY CONTACTS FOR CONTROL DAMPER INTERLOCK AND SENSOR / WALL TIMER CONTROL (SENSOR AND TIMER PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR). CONNECT COMPLETE PER CODE AND MANUFACTURER'S INSTRUCTIONS. COORDINATE CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. SEE #2 DWG E61.02 AND MECHANICAL DRAWINGS.

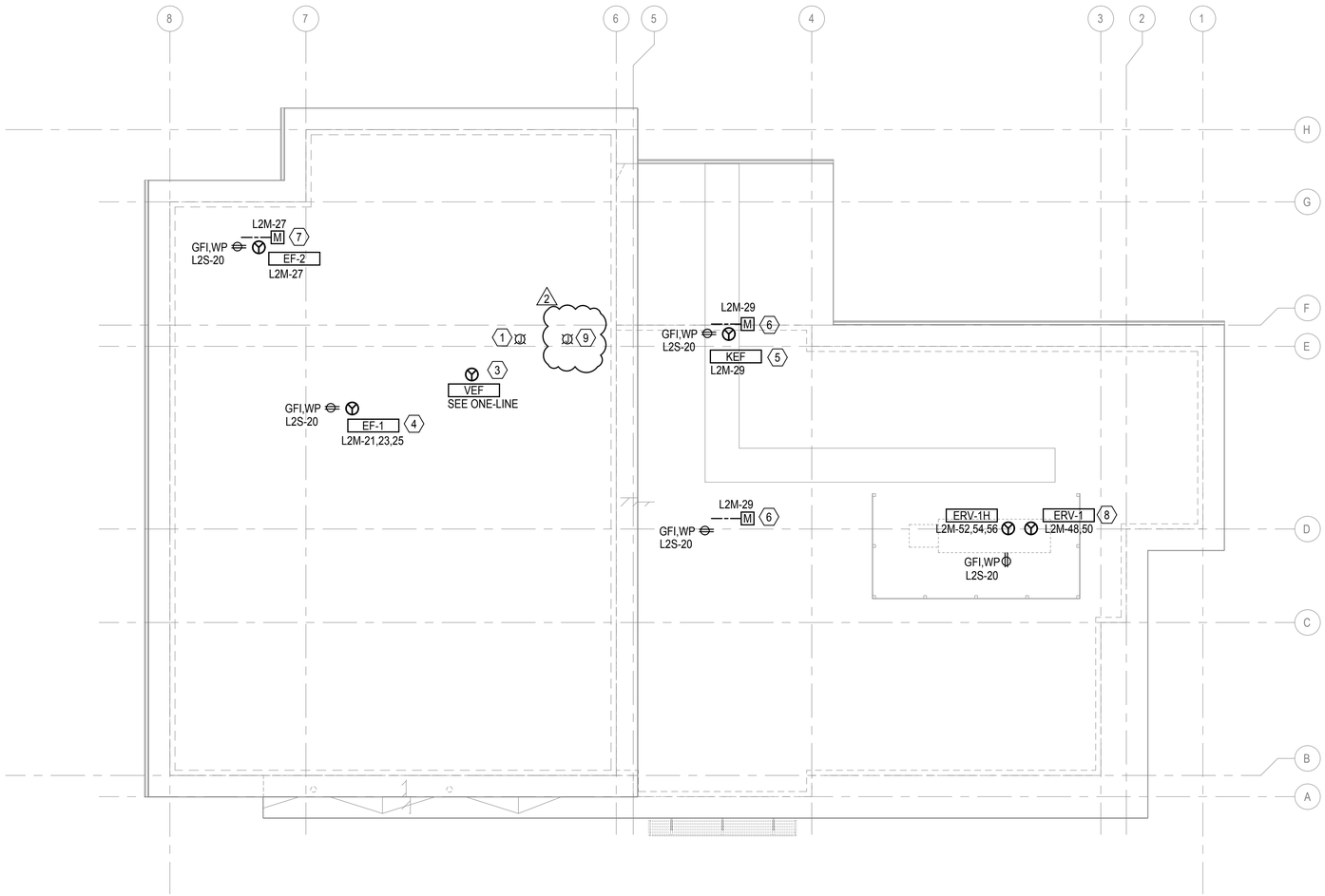
5. UNIT TO BE INTERLOCKED WITH KITCHEN HOOD. CONNECT COMPLETE PER CODE AND MANUFACTURER'S INSTRUCTIONS. COORDINATE CONNECTION LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. SEE #3 DWG E61.02.

6. DAMPER TO BE INTERLOCKED WITH MUA UNIT AND KITCHEN HOOD SYSTEM. SEE #3, DRAWING E62.02.

7. DAMPER TO BE INTERLOCKED WITH EF-2. SEE #5, DRAWING E62.02.

8. UNIT PROVIDED BY OTHERS WITH REMOTE STEP-UP TRANSFORMER; ELECTRICAL CONTRACTOR TO CONNECT COMPLETE AND PROVIDE DISCONNECTS AND OVERCURRENT PROTECTION FOR PRIMARY AND SECONDARY SIDE OF TRANSFORMER PER CODE AND MANUFACTURER'S INSTRUCTIONS. GROUND TRANSFORMER PER CODE REQUIREMENTS. CONFIRM CONNECTION REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR.

9. PROVIDE ONE 2-INCH CONDUIT WITH PULLSTRING FROM THE MAIN ELECTRICAL ROOM ON LEVEL 2 TO THE ROOF FOR FUTURE PV SYSTEMS PER WSEC. CAP OFF AND MAKE WEATHERTIGHT. PROVIDE PERMANENT LABELING ON EACH END, "SPARE CONDUIT FOR FUTURE PV." (2)



ROOF PLAN - POWER
SCALE: 1/8"=1'-0"

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1	BID CHANGES	4/20/2022

AHJ APPROVAL STAMP

ROOF PLAN - POWER

SHEET #
E22.03

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	LAMP / LUMENS COLOR TEMP CRI	BALLAST / DRIVER INFORMATION	TOTAL WATTS	VOLT	MOUNTING	RECESS DEPTH (IN)	MANUFACTURER	CATALOG NUMBER (NOTES #1, 2, 3 AND 4)	NOTES:
D1	4-INCH SQUARE LED DOWNLIGHT WITH OPEN, SEMI-SPECULAR REFLECTOR.	600 LUMENS 3500K 80+	0-10V DIMMING TO 1%	8.0	MVOLT	RECESSED	6"	HUBBELL LTG LITHONIA LTG COOPER LTG	LTR - 4SQD - H - SL - 06L - DM1 / LTR - 4SQD - T - SL - 35K - 8 - WD - SS	
D1X	SAME AS DL1 BUT WITH 10W CONSTANT POWER INTEGRAL BATTERY PACK WITH INTEGRAL TEST SWITCH. LUMINAIRE MUST HAVE TEST SWITCH INTEGRAL TO THE FIXTURE; REMOTE TEST SWITCH ADJACENT TO THE FIXTURE IS NOT ACCEPTABLE.	600 LUMENS 3500K 80+	0-10V DIMMING TO 1%	8.0	MVOLT	RECESSED	6"	HUBBELL LTG LITHONIA LTG COOPER LTG	LTR - 4SQD - H - SL - 06L - DM1 - EM / LTR - 4SQD - T - SL - 35K - 8 - WD - SS - EM	
D2	4-INCH SHOWER RATED DOWNLIGHT WITH NON-CONDUCTIVE TRIM AND TEXTURED LENS. UL LISTED WET LOCATIONS / SHOWERS.	1000 LUMENS 3500K 80+		12.0	MVOLT	RECESSED	5"	HUBBELL LTG GOTHAM LTG COOPER LTG	LTR - 4SQD - H - SL - 10L - DM1 / LTR - 4SQD - T - SH - SL - 35K - 8 - WT - AML	
F1	LED 4-FT LENSED STRIP WITH DROP LENS. CHAIN-HANG OR SURFACE/ WALL-MOUNTED; SEE LIGHTING PLANS.	3000 LUMENS 3500K 80+		30.0	MVOLT	VARIOUS		LITHONIA HUBBELL DAY-BRITE COOPER LTG	ZL1D - L48 - 3000LM - FST - MVOLT - 35K - 80CRI MPS4 SERIES FSS SERIES	
F1X	SAME AS F1 BUT WITH INTEGRAL 10W CONSTANT POWER BATTERY PACK.	3000 LUMENS 3500K 80+		30.0	MVOLT	VARIOUS		LITHONIA HUBBELL DAY-BRITE COOPER LTG	ZL1D - L48 - 3000LM - FST - MVOLT - 35K - 80CRI - E10WLCP MPS4 SERIES FSS SERIES	
F2	LED 4-FT LENSED STRIP WITH DROP LENS. CHAIN-HANG OR SURFACE/ WALL-MOUNTED; SEE LIGHTING PLANS. LUMINAIRES NOTED AS EMERGENCY ON LIGHTING PLANS TO BE POWERED VIA EMERGENCY LIGHTING INVERTERS. SEE LIGHTING PLANS.	8400 LUMENS 3500K 80+	0-10V DIMMING	67.0	MVOLT	VARIOUS		LITHONIA HUBBELL COOPER LTG	MPS4 - 35XL - CN - EDD - U CLX - L48 - 9000LM - SEF - RDL - WD - MVOLT - EZ1 - 35K - 80CRI 4SNLED - LD5 - 74HL - LN - UNV - L835 - CD1 - U	
F3	LED 4-FT LENSED STRIP WITH DROP LENS. CHAIN-HANG OR SURFACE/ WALL-MOUNTED.	5000 LUMENS 3500K 80+		41.0	MVOLT	VARIOUS		LITHONIA HUBBELL COOPER LTG	ZL1D - L48 - 5000LM - FST - MVOLT - 35K - 80CRI MPS4 - 35 - ML - C - W - ED - U 4SNLED - LD5 - 50SL - LW - UNV - L835 - CD1 - U	
F3X	SAME AS F3 BUT WITH INTEGRAL 10W CONSTANT POWER BATTERY PACK.	5000 LUMENS 3500K 80+		41.0	MVOLT	VARIOUS		LITHONIA HUBBELL COOPER LTG	ZL1D - L48 - 5000LM - FST - MVOLT - 35K - 80CRI - E10WLCP MPS4 - 35 - ML - C - W - ED - U - ELL14 4SNLED - LD5 - 50SL - LW - UNV - EL14W - L835 - CD1 - U	
F4	LED 2-FT LENSED STRIP WITH DROP LENS. CHAIN-HANG OR SURFACE/ WALL-MOUNTED; SEE LIGHTING PLANS.	2500 LUMENS 3500K 80+		22.0	MVOLT	VARIOUS		LITHONIA HUBBELL COOPER LTG	ZL1D - L24 - 3000LM - FST - MVOLT - 35K - 80CRI MPS2 - 35 - LW - C - W- ED - U	
F5	LED 4-FT ENCLOSED AND GASKETED LUMINAIRE, IP66 RATED. CHAIN-HANG.	3000 LUMENS 3500K 80+		25.0	MVOLT	VARIOUS		HUBBELL LITHONIA COOPER LTG ILP INC	HEM4 - 35 - ML - RFA - E - U HZV4 - 5L - U - 35 - RAFL	
F5X	SAME AS F5 BUT WITH INTEGRAL BATTERY PACK WITH 1400 LUMEN OUTPUT.	3000 LUMENS 3500K 80+		25.0	MVOLT	VARIOUS		HUBBELL LITHONIA COOPER LTG ILP INC	HEM4 - 35 - ML - RFA - E - U - ELL14HAZ HZV4 - 5L - U - 35 - RAFL - EM10	
L1	LINEAR 4-INCH x 4-FOOT LINEAR PENDANT WITH DIRECT ONLY DISTRIBUTION. LUMINAIRES NOTED AS EMERGENCY ON LIGHTING PLANS TO BE POWERED VIA EMERGENCY LIGHTING INVERTERS. SEE LIGHTING PLANS.	3700 LUMENS 3000K 80+	0-10V DIMMING TO 1%	37.2	120	SUSPENDED		FINELITE PINNACLE ARCH LTG AXIS LTG MARK ARCH LTG	HP - 4 - P - D - 4FT - V - 830 - F - 96LG - 120 - SC - FC-1% - FA100 - XX - FE - XX	6
P1	4-INCH SQUARE CYLINDER PENDANT WITH SEMI-SPECULAR REFLECTOR. LUMINAIRES NOTED AS EMERGENCY ON LIGHTING PLANS TO BE POWERED VIA EMERGENCY LIGHTING INVERTERS. SEE LIGHTING PLANS.	2000 LUMENS 3000K 80+	0-10V DIMMING TO 1%	23.0	120	SUSPENDED		HUBBELL LTG LUCIFER LTG CSL COOPER LTG	LTC - 4SQD - CM - 20L - 30K - 8 - WD - DM1 - SS - XX - XX	6
P2	4-INCH SQUARE CYLINDER PENDANT WITH SEMI-SPECULAR REFLECTOR. LUMINAIRES NOTED AS EMERGENCY ON LIGHTING PLANS TO BE POWERED VIA EMERGENCY LIGHTING INVERTERS. SEE LIGHTING PLANS.	1000 LUMENS 3000K 80+	0-10V DIMMING TO 1%	12.0	120	SUSPENDED		HUBBELL LTG LUCIFER LTG CSL COOPER LTG	LTC - 4SQD - CM - 10L - 30K - 8 - WD - DM1 - SS - XX - XX	6
P3	4FT x 4FT SQUARE PENDANT WITH 4-INCH APERTURE. LUMINAIRES NOTED AS EMERGENCY ON LIGHTING PLANS TO BE POWERED VIA EMERGENCY LIGHTING INVERTERS. SEE LIGHTING PLANS.	5000 LUMENS 3000K 80+	0-10V DIMMING TO 1%	80.0	120	SUSPENDED		PRUDENTIAL LTG BETA CALCO PRIMUS LIGHTING	QDF - 44 - LED3 - MO - FWA - XXX - D9 - SC - UNV - CA48 - XX - DM01 AA13 - J2 - K2 - U2 - D1 - XX - L3 - E0 - C0 - W0 Q1 - DL - 3K - SQL - UNV 1% - X - SC - XX - X - 4FT x 4FT	7
R1	LED RECESSED 2X2 LIGHT PANEL WITH FLAT LENS FOR ACT CEILING.	3000 LUMENS 3000K 80+	0-10V DIMMING TO 1%	37.0	120	RECESSED	5.07"	FOCAL POINT PINNACLE ARCH LTG AXIS LTG MARK ARCH LTG	FNVL - 22 - ACZ - 3000L - 30K - IC - UNV - LH1 - XX	
R1X	SAME AS R1 BUT WITH INTEGRAL 1400 LUMEN BATTERY PACK. LUMINAIRE MUST HAVE TEST SWITCH INTEGRAL TO THE FIXTURE; REMOTE TEST SWITCH ADJACENT TO THE FIXTURE IS NOT ACCEPTABLE.	3000 LUMENS 3000K 80+	0-10V DIMMING TO 1%	37.0	120	RECESSED	5.07"	FOCAL POINT PINNACLE ARCH LTG AXIS LTG MARK ARCH LTG	FNVL - 22 - ACZ - 3000L - 30K - IC - UNV - LH1 - XX - EM	
S1	18-INCH LINEAR RECTANGULAR WALL-MOUNTED VANITY LUMINAIRE.	1300 LUMENS 3500K 80+	ELV DIMMING	15.5	120	WALL MTD		WAC LIGHTING NO EXCEPTIONS	WS - 85618 - XX	
T1	LED TAPE LIGHT FOR UNDERCABINET INSTALLATION. PROVIDE WITH MOUNTING CHANNELS FOR UNDERCABINET INSTALLATION. FIELD VERIFY EXACT LENGTHS AND POWER SUPPLY LOCATIONS WITH ARCHITECT AND CABINETRY.	168 LUMENS/ FT 3000K 80+	ELECTRONIC REMOTE POWER SUPPLY	2.5W/ FT	120	SURFACE		KELVIX LIGHTING OPTIC ARTS LTG NOVA FLEX QTRAN LTG	PL3K-24V-LENGTHS PER DRAWINGS WITH CH-602 CHANNEL AND 25HE-24V POWER SUPPLIES	
W1 (2)	LED EXTERIOR 8-INCH DIAMETER WALL-MOUNTED DIRECT CYLINDER LUMINAIRE WITH INTEGRAL DRIVER. UL LISTED WET LOCATION. EMERGENCY LUMINAIRES TO BE ON EMERGENCY LIGHTING INVERTERS; SEE LIGHTING PLANS	2000 LUMENS 4000K 80+	ELECTRONIC	23.0	120	WALL		HUBBELL LTG LITHONIA LTG LITON LTG LUCIFER LTG	LTC - 6RD - W - 20L - 40K - 8 - WD - DM1 - SS - XX	8
W2	FULL CUTOFF POLE-MOUNTED LUMINAIRE WITH TYPE III DISTRIBUTION AND INTEGRAL MOTION SENSOR TO REDUCE OUTPUT TO 50% WHEN NO OCCUPANCY IS DETECTED. PROVIDE ON METAL POLE WITH FINISH TO MATCH LUMINAIRE AND ALL PARTS AND PIECES REQUIRED FOR INSTALLATION. PROVIDE ON CONCRETE BASE. TOTAL HEIGHT OF POLE PLUS LUMINAIRE PLUS BASE TO BE 18-FT. COORDINATE CONCRETE BASES WITH STRUCTURAL AND GENERAL CONTRACTOR. UL LISTED WET LOCATION.	9000 LUMENS 4000K 70+	ELECTRONIC	63.0	120	POLE		LSI INDUSTRIES LITHONIA HUBBELL LTG GARDCO LTG COOPER LTG	MRS - LED - 9L - SIL - 3 - UNV - DIM - 40 - 70CRI - IMSBT1 DSX1 LED SERIES GALN SERIES	8
W3	FULL CUTOFF POLE-MOUNTED LUMINAIRE WITH TYPE II DISTRIBUTION AND INTEGRAL MOTION SENSOR TO REDUCE OUTPUT TO 50% WHEN NO OCCUPANCY IS DETECTED. PROVIDE ON METAL POLE WITH FINISH TO MATCH LUMINAIRE AND ALL PARTS AND PIECES REQUIRED FOR INSTALLATION. PROVIDE ON CONCRETE BASE. TOTAL HEIGHT OF POLE PLUS LUMINAIRE PLUS BASE TO BE 18-FT. COORDINATE CONCRETE BASES WITH STRUCTURAL AND GENERAL CONTRACTOR. UL LISTED WET LOCATION.	9000 LUMENS 4000K 70+	ELECTRONIC	63.0	120	POLE		LSI INDUSTRIES LITHONIA HUBBELL LTG GARDCO LTG COOPER LTG	MRS - LED - 9L - SIL - 2 - UNV - DIM - 40 - 70CRI - IMSBT1 DSX1 LED SERIES GALN SERIES	8
W3A	FULL CUTOFF POLE-MOUNTED LUMINAIRE WITH TYPE II DISTRIBUTION, INTEGRAL LOUVER FOR SHARP SPILL LIGHT CUTOFF AND INTEGRAL MOTION SENSOR TO REDUCE OUTPUT TO 50% WHEN NO OCCUPANCY IS DETECTED. PROVIDE ON METAL POLE WITH FINISH TO MATCH LUMINAIRE AND ALL PARTS AND PIECES REQUIRED FOR INSTALLATION. PROVIDE ON CONCRETE BASE. TOTAL HEIGHT OF POLE PLUS LUMINAIRE PLUS BASE TO BE 18-FT. COORDINATE CONCRETE BASES WITH STRUCTURAL AND GENERAL CONTRACTOR. UL LISTED WET LOCATION.	9000 LUMENS 4000K 70+	ELECTRONIC	63.0	120	POLE		LSI INDUSTRIES LITHONIA HUBBELL LTG GARDCO LTG COOPER LTG	MRS - LED - 9L - SIL - 2 - UNV - DIM - 40 - 70CRI - IMSBT1 - IL DSX1 LED SERIES GALN SERIES	8
W4	FULL CUTOFF POLE-MOUNTED LUMINAIRE WITH FORWARD THROW DISTRIBUTION, INTEGRAL LOUVER FOR SHARP SPILL LIGHT CUTOFF AND INTEGRAL MOTION SENSOR TO REDUCE OUTPUT TO 50% WHEN NO OCCUPANCY IS DETECTED. PROVIDE ON METAL POLE WITH FINISH TO MATCH LUMINAIRE AND ALL PARTS AND PIECES REQUIRED FOR INSTALLATION. PROVIDE ON CONCRETE BASE. TOTAL HEIGHT OF POLE PLUS LUMINAIRE PLUS BASE TO BE 18-FT. COORDINATE CONCRETE BASES WITH STRUCTURAL AND GENERAL CONTRACTOR. UL LISTED WET LOCATION.	9000 LUMENS 4000K 70+	ELECTRONIC	63.0	120	POLE		LSI INDUSTRIES LITHONIA HUBBELL LTG GARDCO LTG COOPER LTG	MRS - LED - 9L - SIL - FT - UNV - DIM - 40 - 70CRI - IMSBT1 - IL DSX1 LED SERIES GALN SERIES	8
W5	2FT ADJUSTABLE LINEAR FLOOD LIGHT WITH BOTH WALL AND CANOPY MOUNTING OPTIONS. UL LISTED WET LOCATION.	2000 LUMENS 4000K 80+	ELECTRONIC	22.0	120	WALL / CANOPY		HYDREL LTG PINNACLE ARCH LTG OR PRE-APPROVED EQUAL	4750L - 2FT - 1000LMF - 40K - MVOLT - WWD - XX - ZT - XXX	8
W6	LED LANDSCAPE FLOODLIGHT WITH INTEGRAL DRIVER. UL LISTED WET LOCATION. PROVIDE CONCRETE POUR FOR POST AT EACH LUMINAIRE PER MANUFACTURER'S INSTRUCTIONS.	1515 LUMENS 4000K 80+	ELECTRONIC	18.0	120	POST		HYDREL LIGMAN LTG COOPER LTG VISION 3 LTG	PALM - A - P1 - 80CRI - 40K - 120 - 35DEG - FLC - 350R - PM60C - S3 - C3 - DNA ODESSA 1 SMALL FLOODLIGHT	8
W7	4-INCH ROUND LED DOWNLIGHT WITH OPEN, SEMI-SPECULAR REFLECTOR. UL LISTED DAMP LOCATION.	1000 LUMENS 3000K 80+	ELECTRONIC	12.0	120	RECESSED	5"	HUBBELL LTG LITHONIA LTG COOPER LTG	LTR - 4RD - H - SL - 10L - DM1 / LTR - 4RD - T - SL - 30K - 8 - MD - SS	8
W8	WALL-MOUNTED FLOOD LIGHT. UL LISTED WET LOCATION.	4500 LUMENS 4000K 70+	ELECTRONIC	37.0	120	WALL		HUBBEL LTG ACUITY LTG COOPER LIGHTING	RWL1 - 48L-35 - 4K7 - 3 - UNV - XXX IST - SA1 - C - 740 - U - T3 - XX	
W9	WALL-MOUNTED WALL PACK, HALF CYLINDER WITH TYPE IV DISTRIBUTION. UL LISTED WET LOCATION.	1879 LUMENS 4000K 70+	ELECTRONIC	15.0	120	WALL		HUBBEL LTG ACUITY LTG COOPER LIGHTING	RDI1 - 24L - 15 - 4K7 - 4W - UNV - XXX	8
X1	LED SELF-POWERED EXIT SIGN; WHITE WITH GREEN LETTERING AND SEALED, MAINTENANCE-FREE NICKEL-CADMIUM BATTERY. PROVIDE WITH UV STABILIZED, IMPACT-RESISTANT THERMOPLASTIC HOUSING. SEE PLANS FOR NUMBER OF FACES, HOUSING, MOUNTING, ETC.			0.7	120	VARIOUS		LITHONIA HUBBELL LTG COOPER LTG	LQM - S - W - 3 - G - 120/ 277 - EL N CEG	5

NOTES:

1. PROVIDE ALL PARTS, COMPONENTS, AND HARDWARE TO CONSTITUTE A COMPLETE INSTALLATION WITH OPTIONS INDICATED IN LUMINAIRE SCHEDULE. CATALOG NUMBERS FOR SUCH ITEMS ARE NOT INCLUDED IN SCHEDULE ABOVE.
2. COORDINATE ALL COLORS / FINISHES WITH ARCHITECT.
3. PROVIDE ALL LUMINAIRES AND EXIT SIGNS WITH 5-YEAR WARRANTY MINIMUM UNLESS NOTED OTHERWISE IN SCHEDULE ABOVE.
4. CONFIRM FINAL CEILING TYPE WITH ARCHITECT AND GENERAL CONTRACTOR.
5. SEE LIGHTING PLANS FOR MOUNTING AND FACES / ARROWS AT EACH LOCATION.
6. AT WOOD CEILING AREAS, BOTTOM OF LUMINAIRE TO BE EVEN WITH BOTTOM OF WOOD CEILINGS. COORDINATE CORD LENGTHS FOR LUMINAIRES WITH FINAL WOOD CEILING INSTALLATION.
7. COORDINATE MOUNTING HARDWARE / CABLE LOCATIONS WITH WOOD OPEN SLATS IN WOOD CEILING. CONFIRM FINAL MOUNTING HEIGHT WITH ARCHITECT.
8. BASIS OF DESIGN EXTERIOR LUMINAIRES ARE THE TOP MANUFACTURERS LISTED FOR EACH TYPE IN THE LUMINAIRE SCHEDULE ABOVE (LSI INDUSTRIES MRS, HUBELL LTG LTC, ETC). THE AHJ REQUIRES THAT NO ILLUMINATION SPILLS OFF ONTO ADJACENT PROPERTIES. IF THE CONTRACTOR IS SUBMITTING ON ANY OF THE LISTED APPROVED EQUAL MANUFACTURERS, THEY SHALL INCLUDE IN THEIR LIGHTING SUBMITTAL A SITE ILLUMINATION CALCULATION PLAN SHOWING COMPLIANCE WITH THIS REQUIREMENT BASED ON THEIR SUBMITTED LUMINAIRES. LUMINAIRE SUBMITTALS WILL NOT BE APPROVED WITHOUT THESE CALCULATIONS. ILLUMINANCE CALCULATIONS SHALL INCLUDE LEGIBLE CALCULATION POINTS BASED ON A CALCULATION ZONE WITH ROW AND COLUMN SPACING OF CALCULATION POINTS AT NO MORE THAN 5 FT X 5FT AS WELL AS A TABLE SHOWING ALL LUMINAIRES, THE IES FILES USED, AND THE ASSUMED LIGHT LOSS FACTORS (LLF). WE HAVE ASSUMED THAT THE TYPE W8 WORK LIGHTS ARE NOT REQUIRED TO BE INCLUDED IN THE ILLUMINATION CALCULATIONS AS THEY WOULD ONLY BE ON FOR LIMITED TIMES.

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PROJECT # 21023

BID SET

ISSUE DATE APRIL 4, 2022

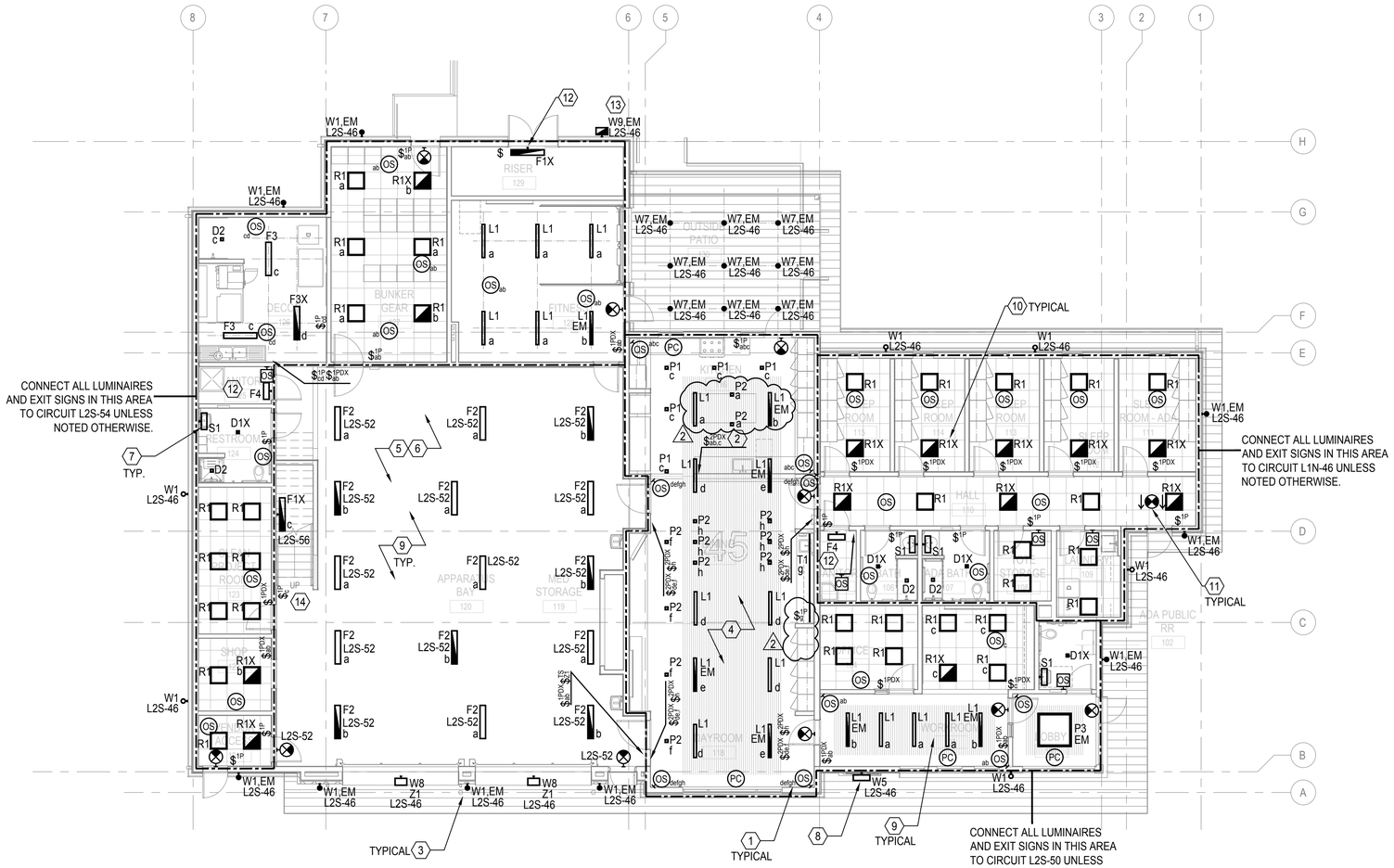
REVISION SCHEDULE		
⚠	BID CHANGES	4/20/2022

AHJ APPROVAL STAMP

LUMINAIRE SCHEDULE

SHEET #
E30.01

= TYPE X1 UNLESS NOTED OTHERWISE; FACES, ARROWS AND MOUNTING AS SHOWN.



FLOOR PLAN - LEVEL 1 - LIGHTING

SCALE: 1/8"=1'-0"

FLAG NOTES (X):

1. PROVIDE WIDE VIEW CORNER MOUNT OCCUPANCY SENSOR WITH SMALL MOTION DETECTION UP TO 40FT FROM SENSOR. TYPICAL AT ALL WALL-MOUNTED OCCUPANCY SENSOR LOCATIONS.
2. INSTALL WALLSTATION NOTED HORIZONTALLY ORIENTED AT SINK BACKSPLASH IN KITCHEN. FIELD VERIFY EXACT LOCATION.
3. FIELD VERIFY LUMINAIRE LOCATIONS AND ROUTING OF CONDUIT WITHIN WALLS WITH STRUCTURAL. COORDINATE PENETRATIONS THROUGH BEAMS FOR CONDUITS WITH GENERAL CONTRACTOR. TYPICAL, ALL LOCATIONS.
4. LIGHTING CONTROLS FOR LUMINAIRES IN THE KITCHEN AND DAYROOM/ DINING AREAS TO BE CONNECTED TO LIGHTING CONTROL PANEL. IN ADDITION TO THE CONTROLS SHOWN, WILL BE CONTROLLED VIA THE FIRE STATION ALERTING SYSTEM AS REQUIRED FOR FIRE STATION FUNCTIONALITY. COORDINATE REQUIREMENTS WITH THE ALERTING SYSTEM VENDOR. SEE LIGHTING CONTROL PANEL SCHEDULE AND LIGHTING CONTROL SEQUENCE OF OPERATION ON E30.03.
5. AUTOMATIC LIGHTING CONTROLS NOT PROVIDED IN FIRE STATION APP BAY AS PER EXCEPTIONS TO C405.2 IN THE WASHINGTON STATE ENERGY CODE. LUMINAIRES IN THE APP BAY WILL BE CONTROLLED VIA THE FIRE STATION ALERTING SYSTEM AS REQUIRED FOR FIRE STATION FUNCTIONALITY; ROUTE CIRCUIT SERVING LUMINAIRES THROUGH THE LIGHTING CONTROL PANEL TO ALLOW FOR ALERTING SYSTEM CONTROL. COORDINATE REQUIREMENTS WITH THE ALERTING SYSTEM VENDOR. SEE LIGHTING CONTROL PANEL SCHEDULE AND LIGHTING CONTROL SEQUENCE OF OPERATION ON E30.03.
6. FIELD COORDINATE EXACT LUMINAIRE LOCATIONS IN APP BAY WITH INFRARED TUBE HEATERS. MAINTAIN REQUIRED CLEARANCE FROM HEATERS.
7. CENTER ALL TYPE S1 VANITY LUMINAIRES ON MIRRORS. SEE ARCHITECTURAL PLANS. FIELD VERIFY EXACT LOCATION. TYPICAL AT ALL LOCATIONS.
8. INSTALL LINEAR FLOOD LIGHT CENTERED ABOVE WALL-MOUNTED SIGNAGE. FIELD VERIFY EXACT LOCATION AND INSTALLATION WITH ARCHITECT AND ALL OTHER TRADES.
9. AT OPEN AND WOOD SLATTED CEILING AREAS (OUTSIDE OF MEP EQUIPMENT ROOMS) CONTRACTOR SHALL ROUTE ALL CABLING (LIGHTING CONTROLS CABLING, ETC) IN CONDUITS PAINTED PER ARCHITECT'S DIRECTION SIZED PER CODE REQUIREMENTS. PROVIDE BUSHINGS ON ALL CONDUIT ENDS. REFER TO ARCHITECTURAL CEILING PLANS FOR LOCATIONS.
10. PROVIDE SWITCHED AND UNSWITCHED LEGS OF CIRCUIT INDICATED AT EACH FIXTURE TO ALL LUMINAIRES WITH INTEGRAL BATTERY PACKS. CONNECT COMPLETE PER CODE AND MANUFACTURER'S INSTRUCTIONS.
11. CONNECT ALL EXIT SIGNS TO UNSWITCHED LEG OF CIRCUIT INDICATED AT EACH EXIT SIGN. CONNECT COMPLETE PER CODE AND MANUFACTURER'S INSTRUCTIONS.
12. INSTALL LUMINAIRE ABOVE DOOR. FIELD VERIFY EXACT LOCATION.
13. COORDINATE LUMINAIRE LOCATION WITH CT CAN AND UTILITY METER LOCATIONS.
14. WALL STATION FOR CONTROL OF LUMINAIRES AT OPEN STAIR TO LEVEL 2. SEE E32.02.

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FLOOR PLAN - LEVEL 1 LIGHTING

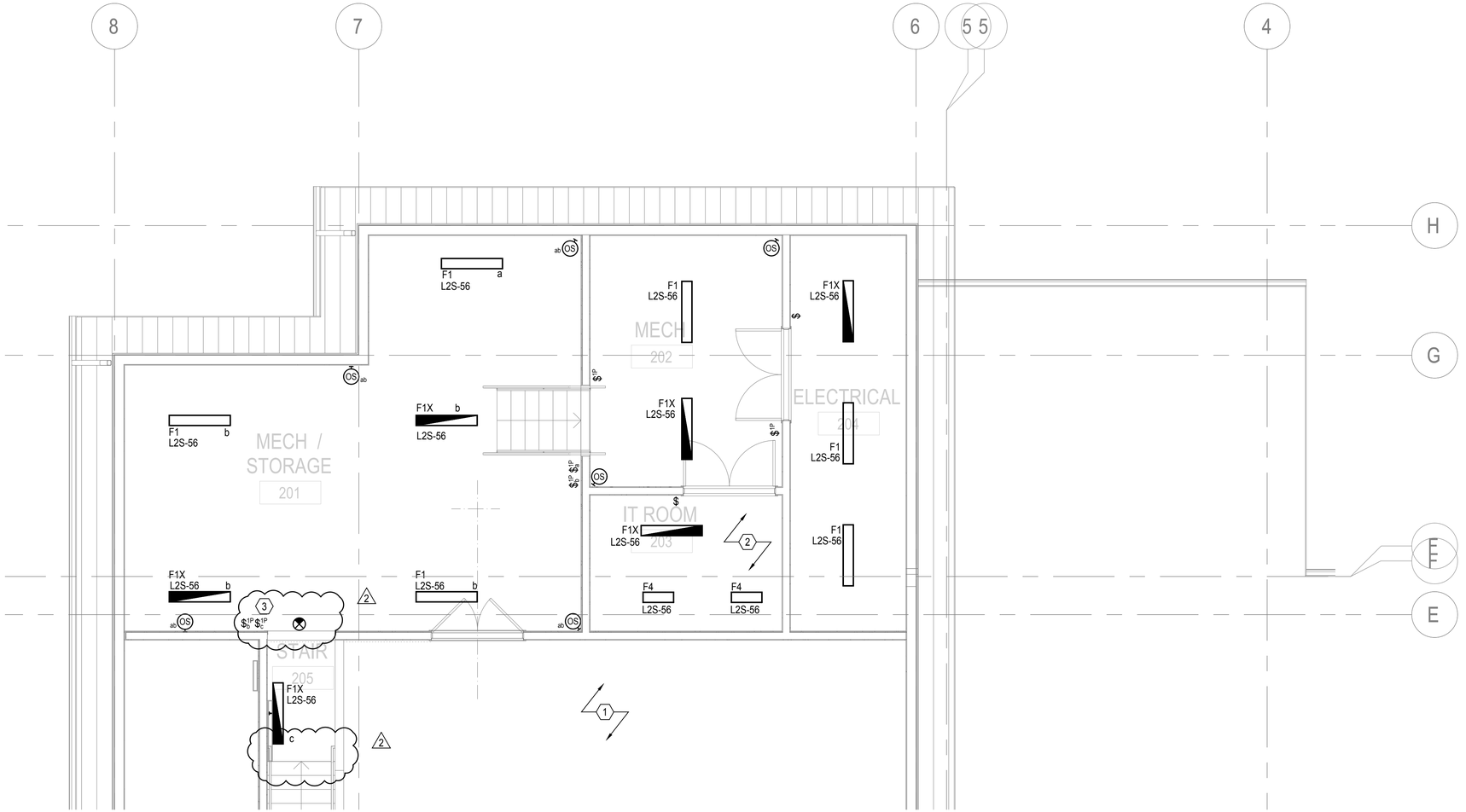
SHEET #

E32.01

= TYPE X1 UNLESS NOTED OTHERWISE; FACES, ARROWS AND MOUNTING AS SHOWN.

FLAG NOTES (X):

1. AT OPEN AND WOOD SLATTED CEILING AREAS (OUTSIDE OF MEP EQUIPMENT ROOMS) CONTRACTOR SHALL ROUTE ALL CABLING (LIGHTING CONTROLS CABLING, ETC) IN CONDUITS PAINTED PER ARCHITECT'S DIRECTION SIZED PER CODE REQUIREMENTS. PROVIDE BUSHINGS ON ALL CONDUIT ENDS. REFER TO ARCHITECTURAL CEILING PLANS FOR LOCATIONS.
2. COORDINATE LUMINAIRE LOCATIONS WITH FINAL CABLE TRAY LAYOUT IN IT ROOM.
3. WALL STATION FOR CONTROL OF LUMINAIRES AT OPEN STAIR TO LEVEL 1. SEE E32.01.



FLOOR PLAN - LEVEL 2 - LIGHTING

SCALE: 1/4"=1'-0"

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FLOOR PLAN - LEVEL 2 LIGHTING

SHEET #
E32.02