

B	ISSUED FOR TENDER	2020-07-01
A	ISSUED FOR 90% CD	2020-03-13
Revision/ Révision	Description/Description	Date/Date

Client/Client

**FISHERIES AND OCEANS,  
REAL PROPERTY,  
SAFETY AND SECURITY**

**VANCOUVER, BC  
200-401 BURRARD ST.**

Project title/Titre du projet

**PSPC for Coast Guard Canada  
Renovation at Institute of  
Ocean Sciences**

Consultant Signature Box Only  
**WSP CANADA PROJECT NO.#201-01564-00**

Designed by/Concept par  
**MRO**

Drawn by/Dessiné par  
**HW/C**

PWGSC Project Manager/Administrateur de Projets TP/SGC  
**NEDA NADERI**

PWGSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architecture et de génie, TP/SGC:  
**PREETIPAL PAUL**

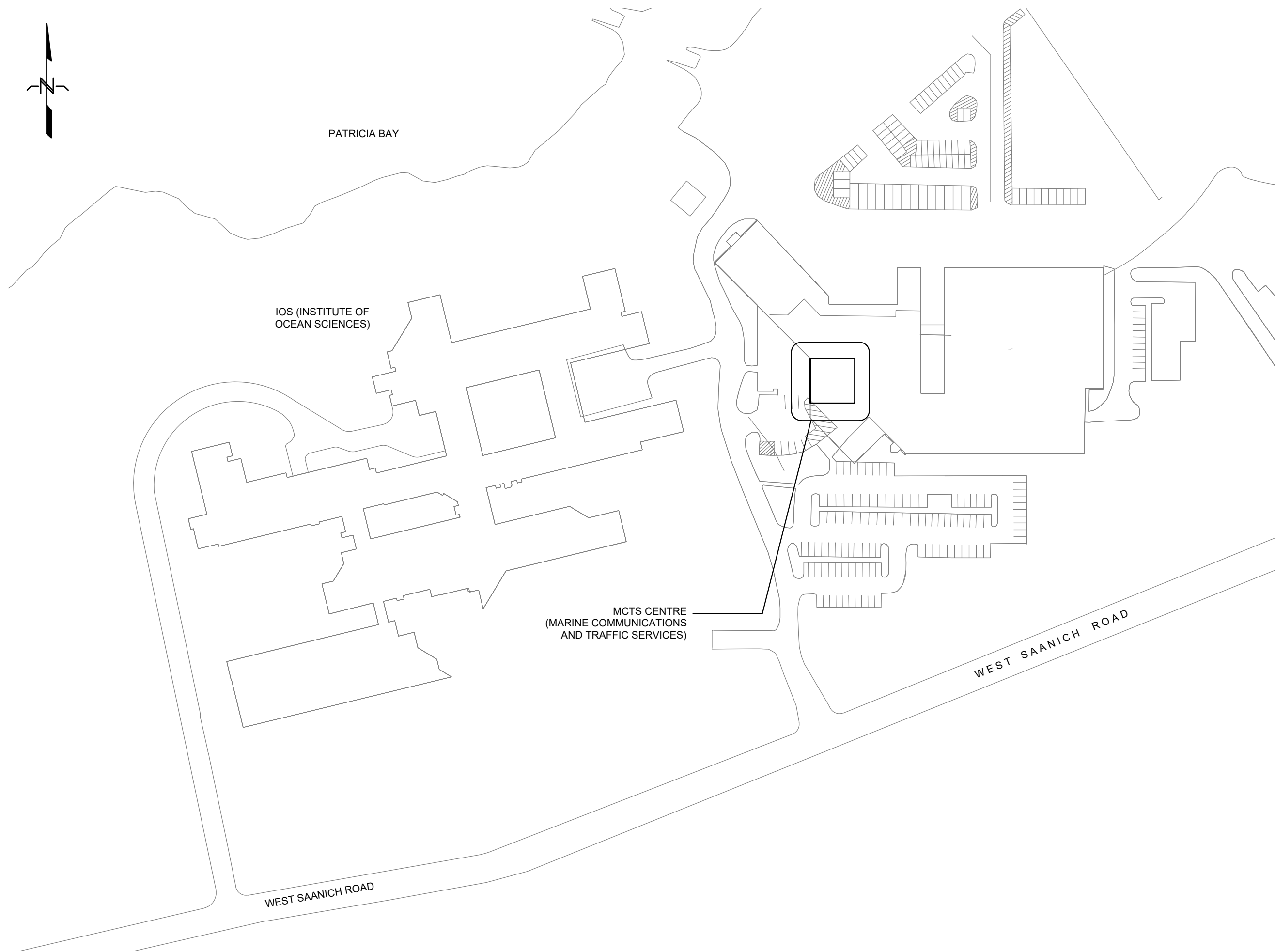
Drawing title/Titre du dessin

**COVER SHEET, LEGEND,  
GENERAL NOTES AND DRAWING LIST**

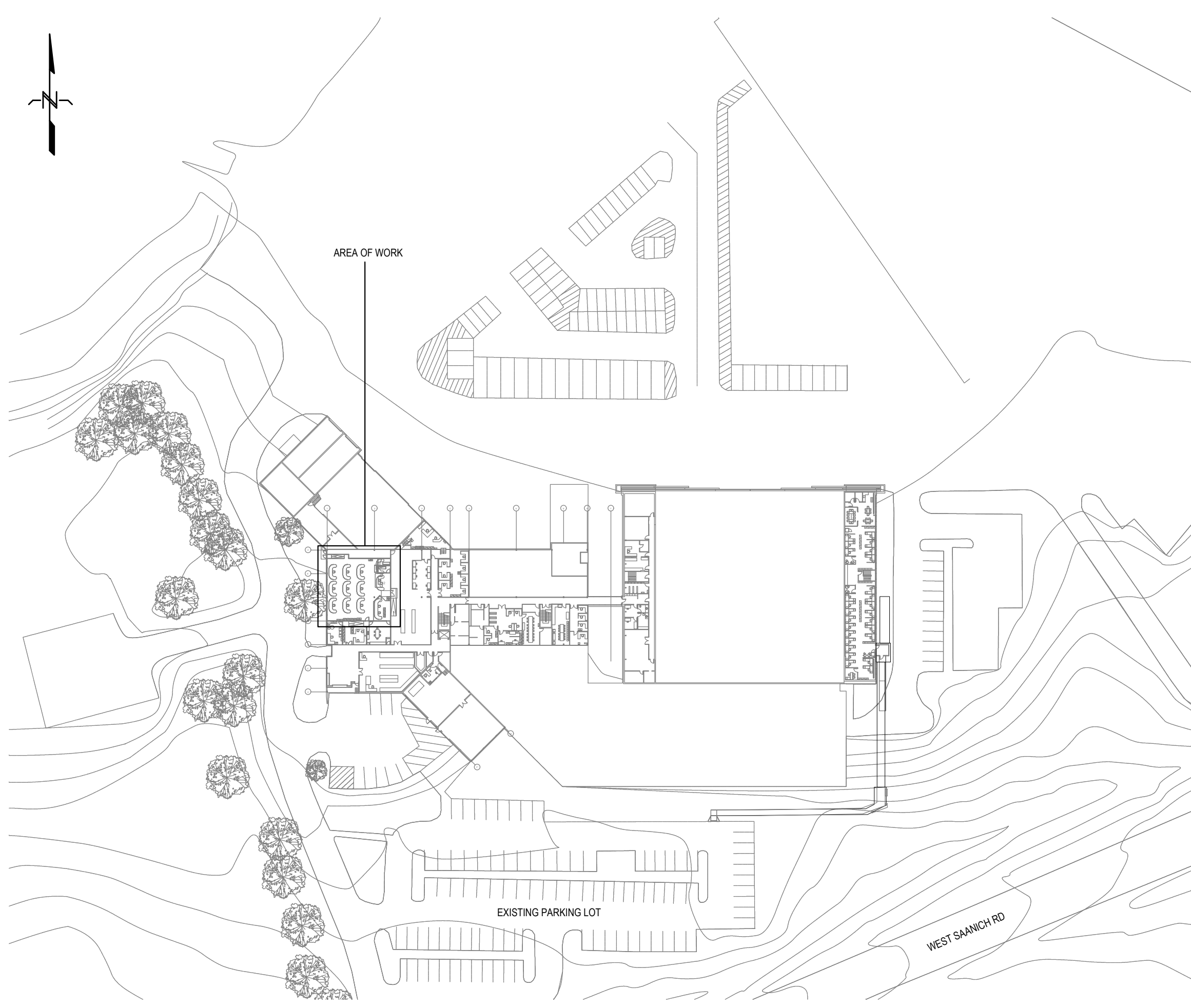
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<b>R.108854.001</b>	<b>E0.01</b>	<b>B</b>

# PSPC for Coast Guard Canada

## Renovation at MCTS Suite



**1 IOS & MCTS LOCATION PLAN**  
SCALE: 1:1500



**2 PROJECT LOCATION PLAN**  
SCALE: 1:1000

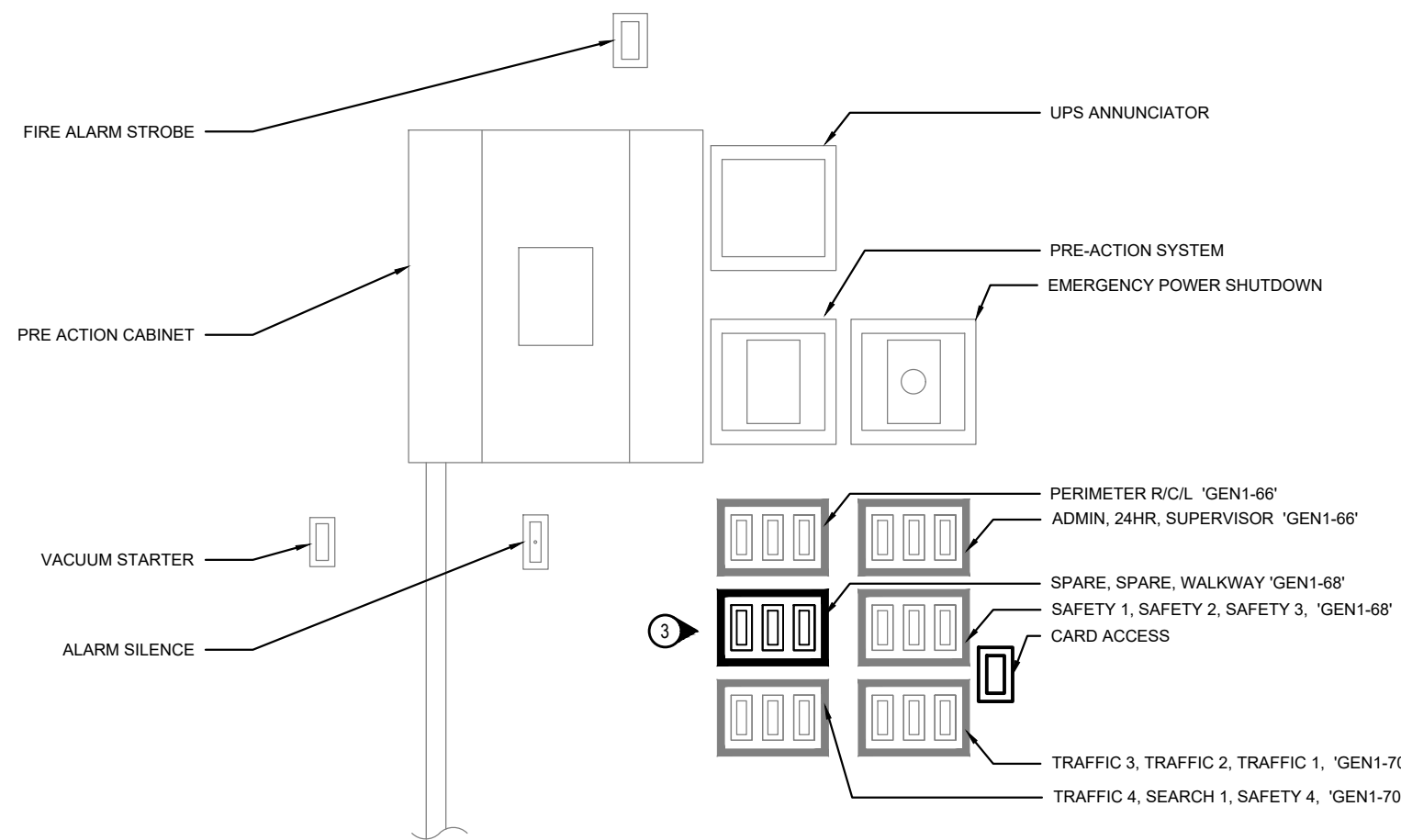
ANNOTATIONS			
DENOTE	DESCRIPTION	DENOTE	DESCRIPTION
BND	BOND WIRE (AS PER SPECIFICATIONS)	F/A	FIRE ALARM
GND	GROUND WIRE (#6)	GFI	GROUND FAULT INTERRUPTOR
C/W	COMPLETE WITH	SPD	SURGE PROTECTION DEVICE
DISC	DISCONNECT	TR	TAMPER RESISTANT
RR	REMOVE	WP	WEATHERPROOF
ER	EXISTING TO REMAIN	WT	WATER TIGHT
RE	REPLACE EXISTING WITH NEW DEVICE IN SAME LOCATION	AFF	ABOVE FINISHED FLOOR
RL	EXISTING DEVICE IN RELOCATED LOCATION	AFG	ABOVE FINISHED GRADE
SYMBOL	DESCRIPTION		
	MECHANICAL EQUIPMENT TAG		
	REFERENCE NOTE (1 DENOTES SEE NOTE 1)		
	KITCHEN EQUIPMENT TAG		
	OWNER SUPPLIED EQUIPMENT TAG		
	CONDUIT TAG		
	REVISION IDENTIFICATION TAG		
	PANEL IDENTIFICATION TAG		
	NEW EQUIPMENT		
	EXISTING EQUIPMENT TO REMAIN		
	EXISTING EQUIPMENT TO BE REMOVED		

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	POWER TRANSFORMER.
	SINGLE SURFACE MOUNTED / FLUSH MOUNTED PANELBOARD. "PP" DENOTES POWER PANEL.
	GROUND BAR
	DUPLEX U-GROUND 15A, 125 VOLT, 2 POLE, 3 WIRE GROUNDING RECEPTACLE
	TWO DUPLEX U-GROUND 15A, 125 VOLT, 2 POLE, 3 WIRE GROUNDING RECEPTACLES IN COMMON FACEPLATE.
	DUPLEX U-GROUND, 15A, 125 VOLT, 3 WIRE RECEPTACLE IN ADJUSTABLE OUTLET BOX, MOUNTED FLUSH IN FLOOR.
	DISCONNECT SWITCH UNLESS NOTED OTHERWISE
	MOTOR
	JUNCTION BOX
	COMMUNICATION OUTLET (IF MULTIPLE DROPS ARE REQUIRED ADD TEXT)
	RECESSED DOWNLIGHT. LETTER "A" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE. G-2 INDICATES ALL LUMINAIRES CONNECTED TO PANEL 'G' CIRCUIT NO. 2.
	REMOTE DUAL HEAD EMERGENCY LIGHTS CONNECTED TO EMERGENCY BATTERY PACK CEILING MOUNTED. REFER TO SPECIFICATIONS FOR DETAILS. "E2" DENOTES REMOTE BATTERY HEADS FED FROM BATTERY UNIT "E2".
	ONE LINE VOLTAGE TOGGLE SWITCH MOUNTED 4'-0" (1.2m) ABOVE FINISHED FLOOR LEVEL. UNLESS OTHERWISE NOTED. "D" WHERE SHOWN, DENOTES DIMMER SWITCH

SINGLE LINE DIAGRAM SYMBOLS	
SYMBOL	DESCRIPTION
	POWER TRANSFORMER.
	MOLDED CASE CIRCUIT BREAKER. "L" WHERE SHOWN, DENOTES DEVICE c/w CURRENT LIMITERS
	DRAW-OUT AIR CIRCUIT BREAKER.
	UNFUSED VOLTAGE DISCONNECT SWITCH.
	DELTA GROUND CONNECTION
	WYE GROUND CONNECTION
	PANELBOARD

ELECTRICAL DRAWING LIST	
DRAWING NO.	DRAWING NAME
E0.01	COVER SHEET LEGEND, DRAWING LIST AND GENERAL NOTES
E1.00	ELECTRICAL FLOOR PLAN DEMOLITION AND NEW
E1.10	ELECTRICAL SINGLE LINE DIAGRAM AND CONDUIT ROUTING PLAN
E2.00	ELECTRICAL DETAILS

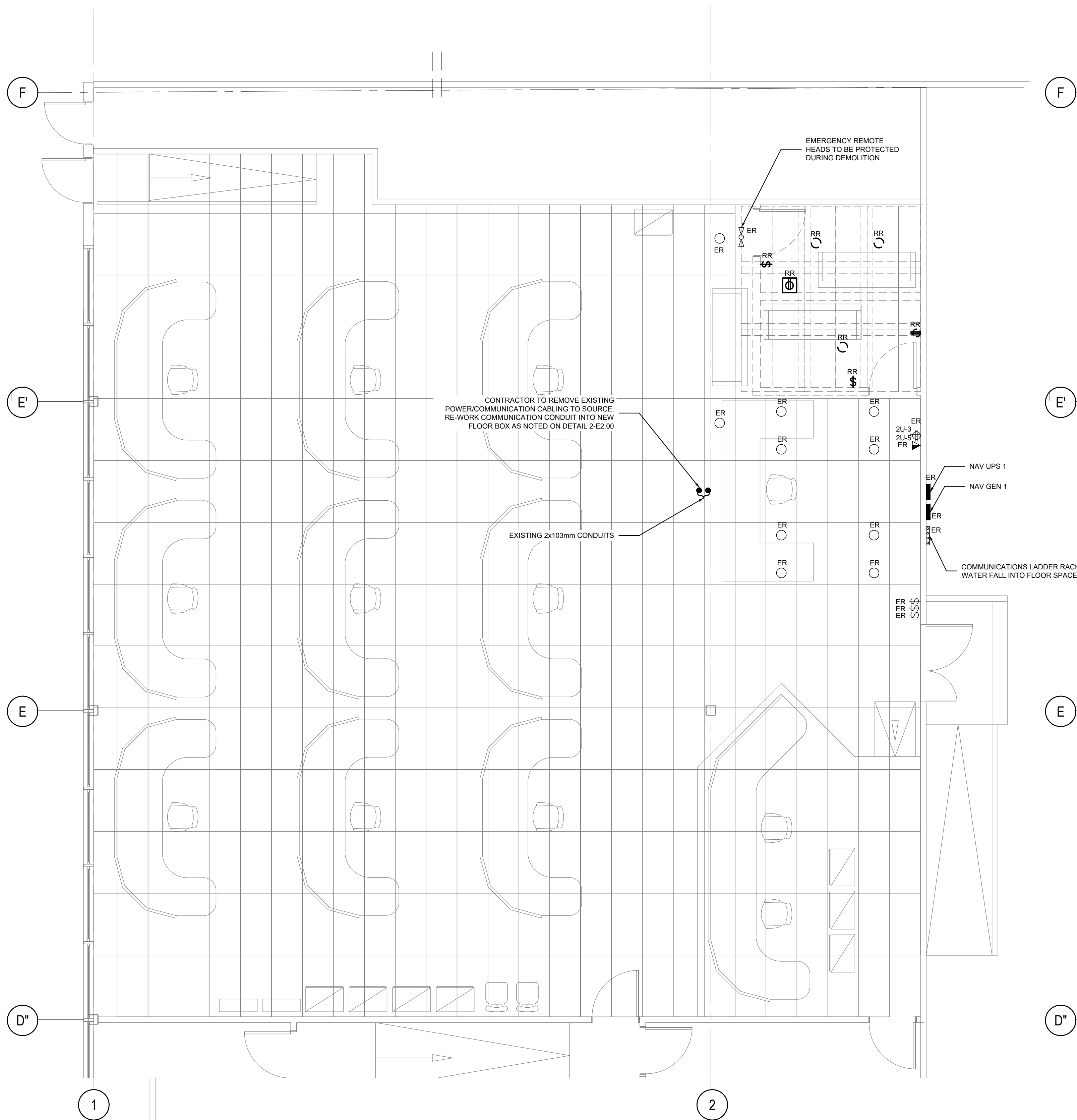




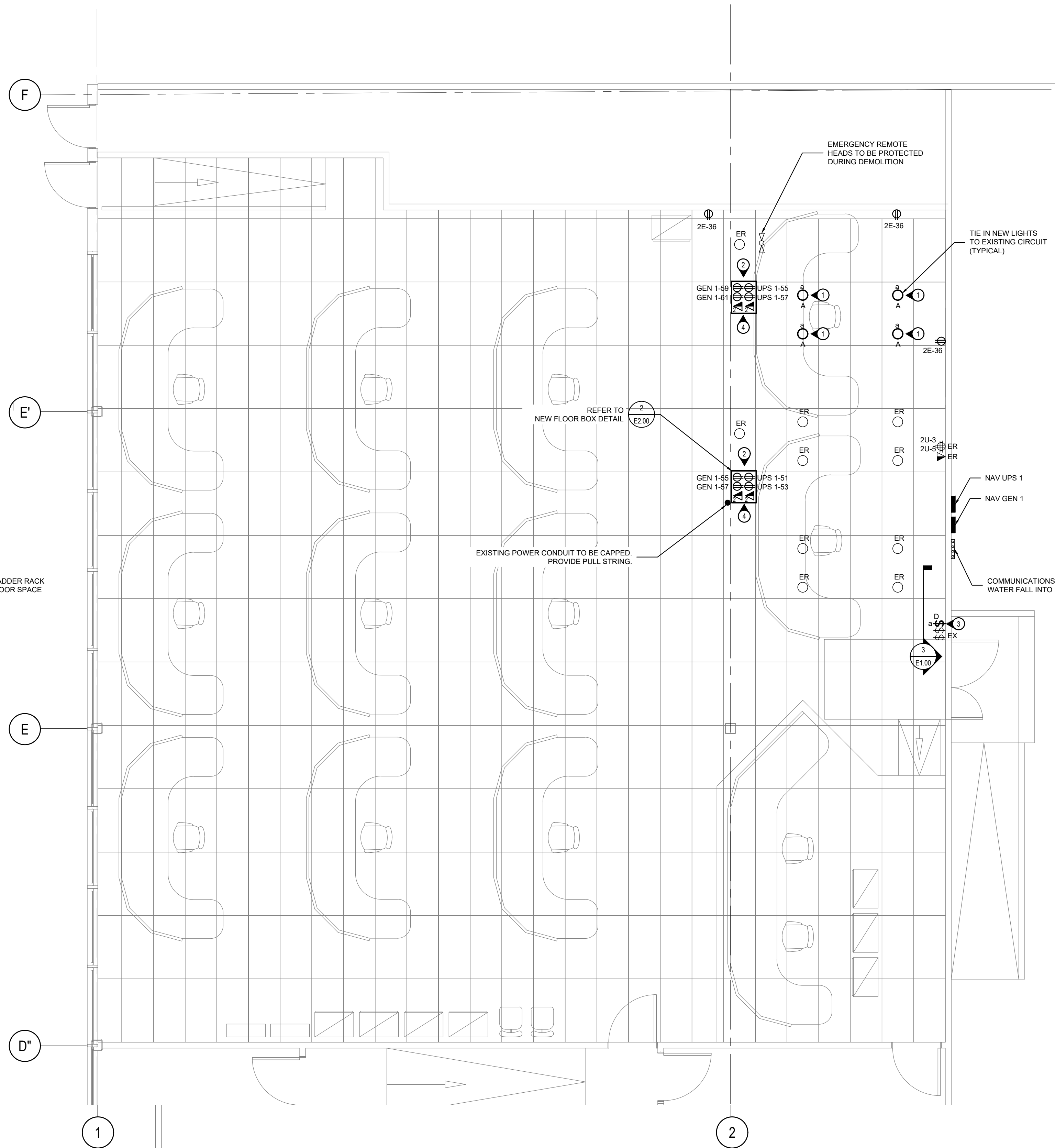
3 ELECTRICAL ELEVATION  
SCALE N.T.S.

KEYNOTES:

- CONTRACTOR TO WIRE NEW TYPE A LUMINAIRES TO EXISTING SWITCH BANK BACK BOX. REFER TO ELEVATION DRAWING 3/E1.00. PROVIDE LOW VOLTAGE CABLING.
- PROVIDE 6 GANG FLOOR BOX EQUAL TO LEGRAND EVOLUTION SERIES EF86S. CONTRACTOR IS TO CONFIRM EXACT LOCATION OF THE FLOOR BOXES WITH USERS AND FURNITURE PROVIDER PRIOR TO ROUGH-IN. FLOOR BOXES SHALL BE LOCATED UNDERNEATH THE DESKS.
- CONTRACTOR TO PROVIDE NEW DIMMER SWITCH WIRED TO NEW DOWN LIGHTS AS NOTED. MATCH EXISTING SERIES (LUTRON MAESTRO LV). CONTRACTOR TO CONFIRM ON SITE PRIOR TO ORDER.
- PROVIDE 4 x CAT6 COMMUNICATION CABLE TO EACH FLOOR BOX TERMINATE AT EXISTING MDF PATCH BAY NOTED ON CONDUIT ROUTING PLAN.



1 ELECTRICAL FLOOR PLAN - DEMOLITION  
SCALE 1:50



2 ELECTRICAL FLOOR PLAN - NEW  
SCALE 1:50

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ELECTRICAL FLOOR PLAN  
DEMOLITION AND NEW

Project No./No. du projet

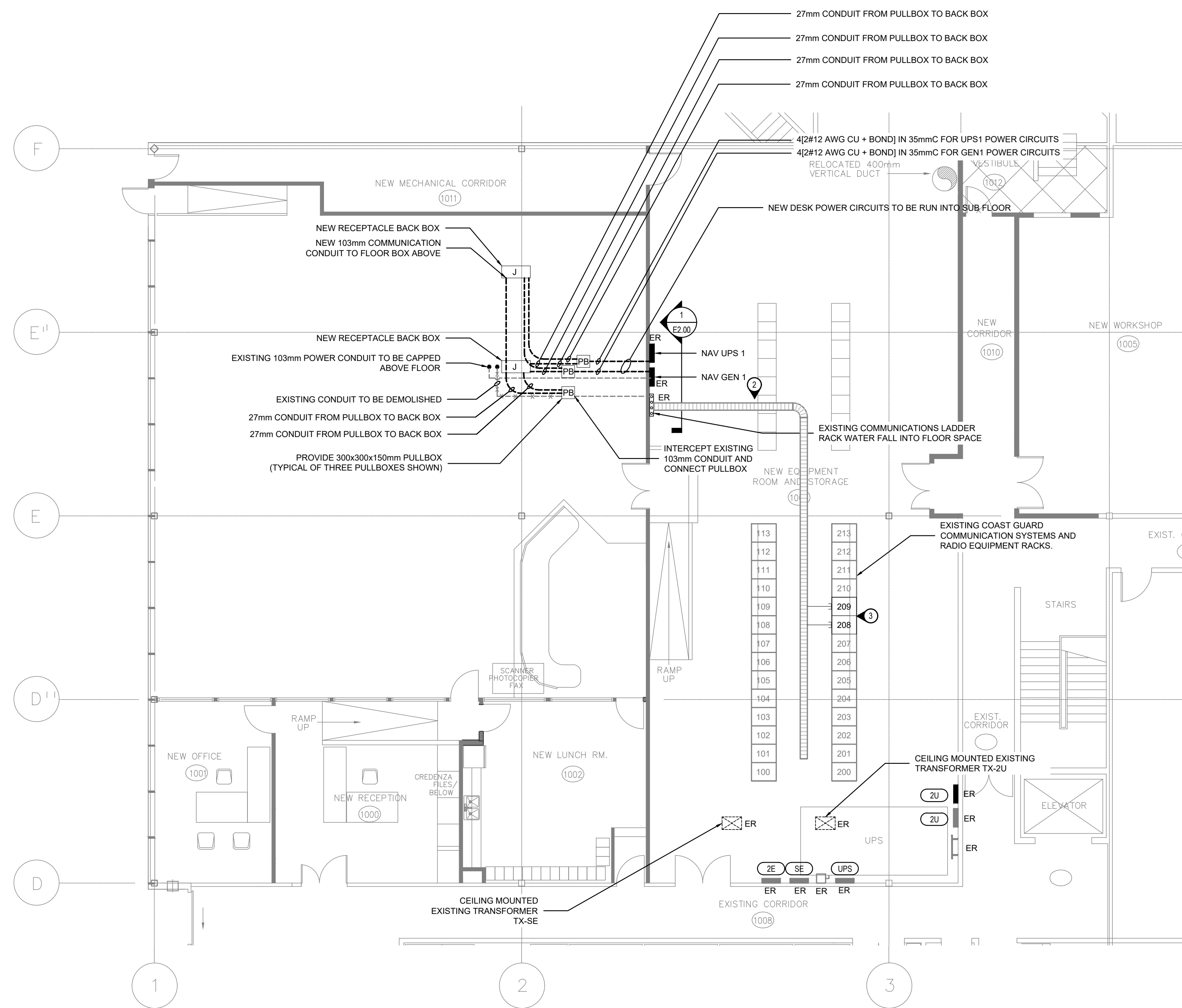
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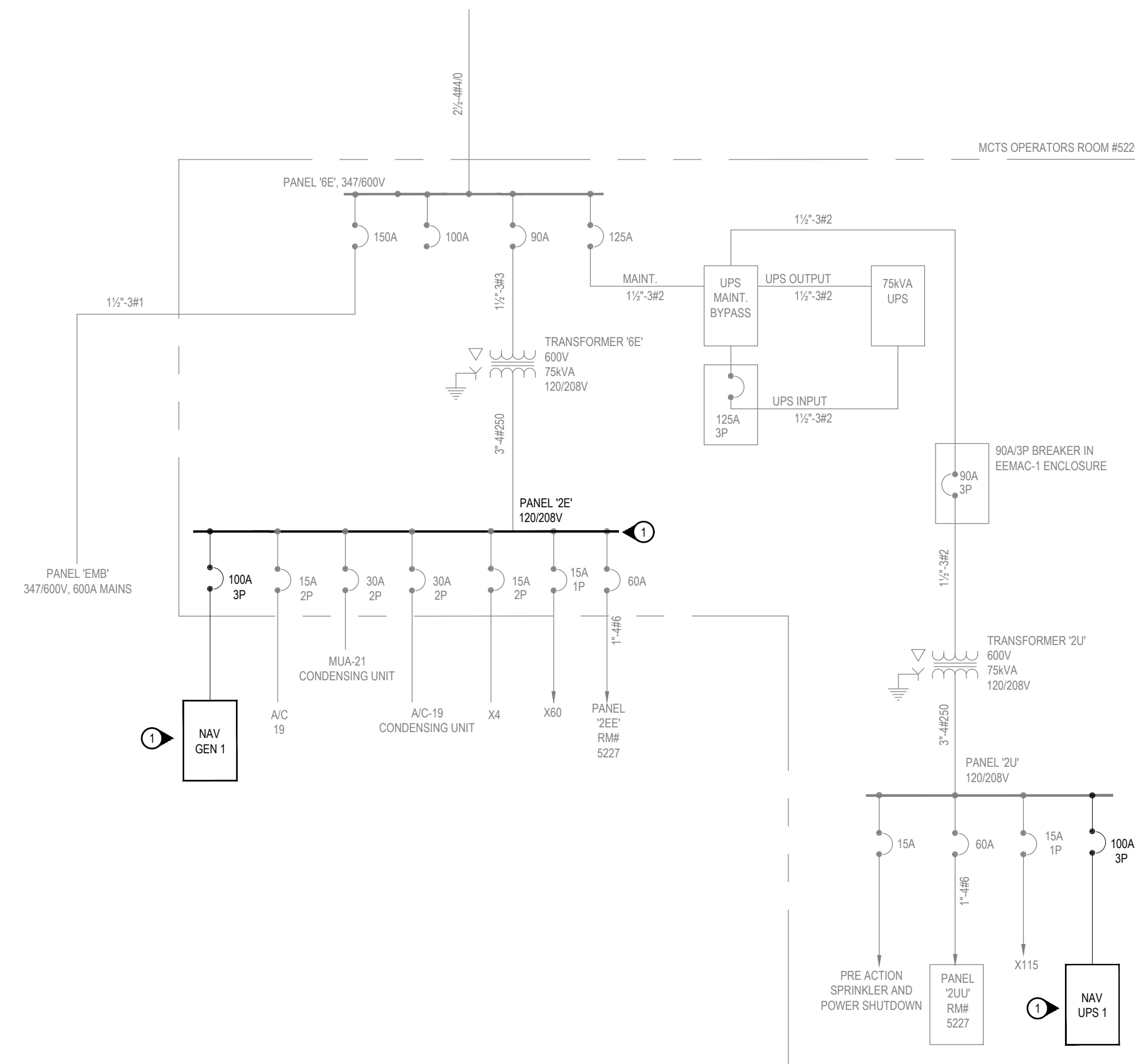
E1.00

Revision no./  
La Révision  
no.

B



1 ELECTRICAL ROUTING PLAN  
E1.10 SCALE 1:100



2 PARTIAL ELECTRICAL SINGLE LINE DIAGRAM  
E1.10 SCALE N.T.S.

KEYNOTES:

- CONTRACTOR TO PROVIDE NEW CIRCUITS AS NOTED ON DRAWING.
- CONTRACTOR TO RUN NEW COMMUNICATION CABLE IN EXISTING LADDER RACK CABLE TRAY.
- CONTRACTOR TO TERMINATE NEW CAT6 CABLE IN EXISTING MDF PATCHBOX RACK 209/208



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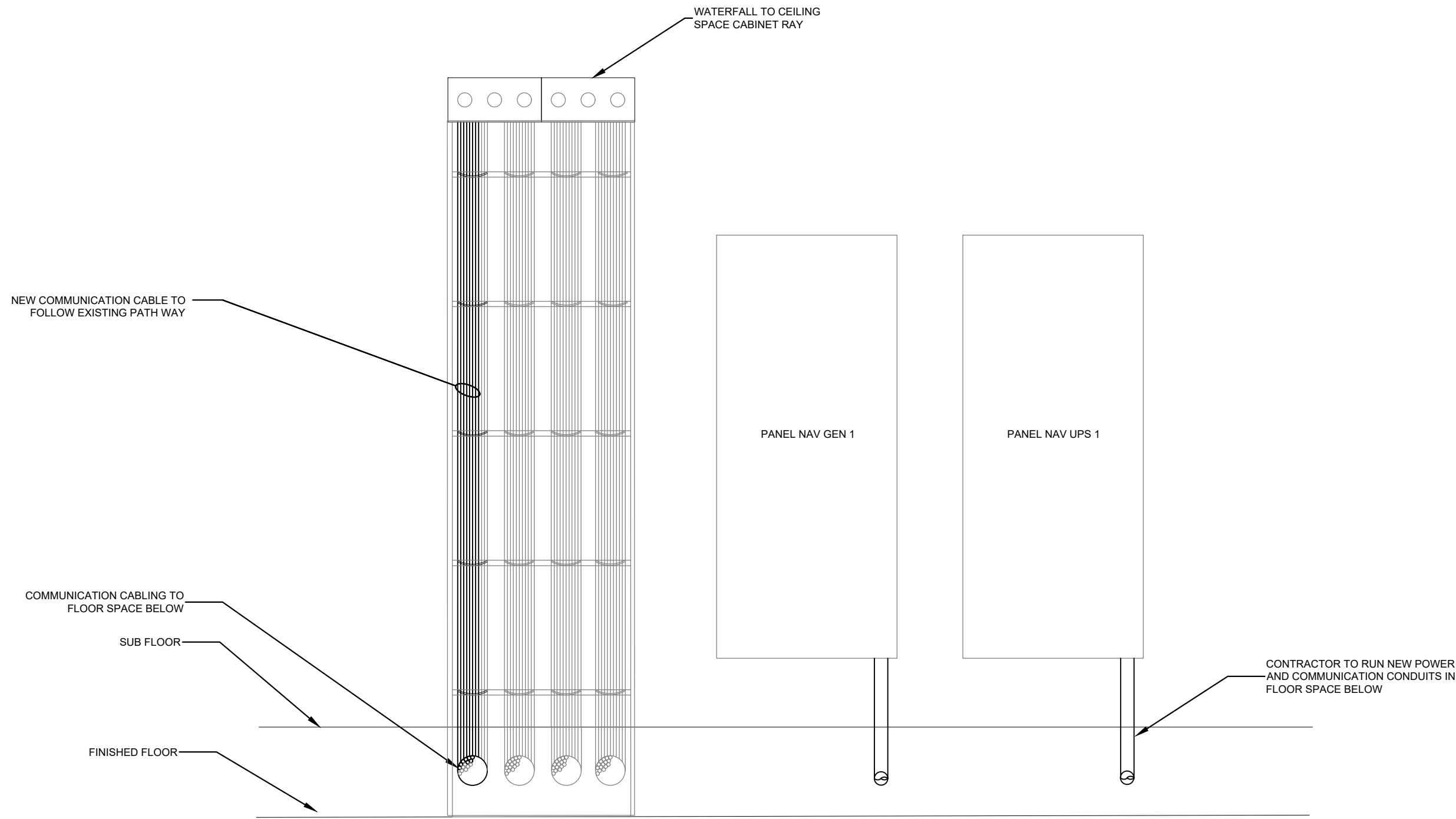
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**ELECTRICAL SINGLE LINE DIAGRAM  
AND ROUTING PLAN**

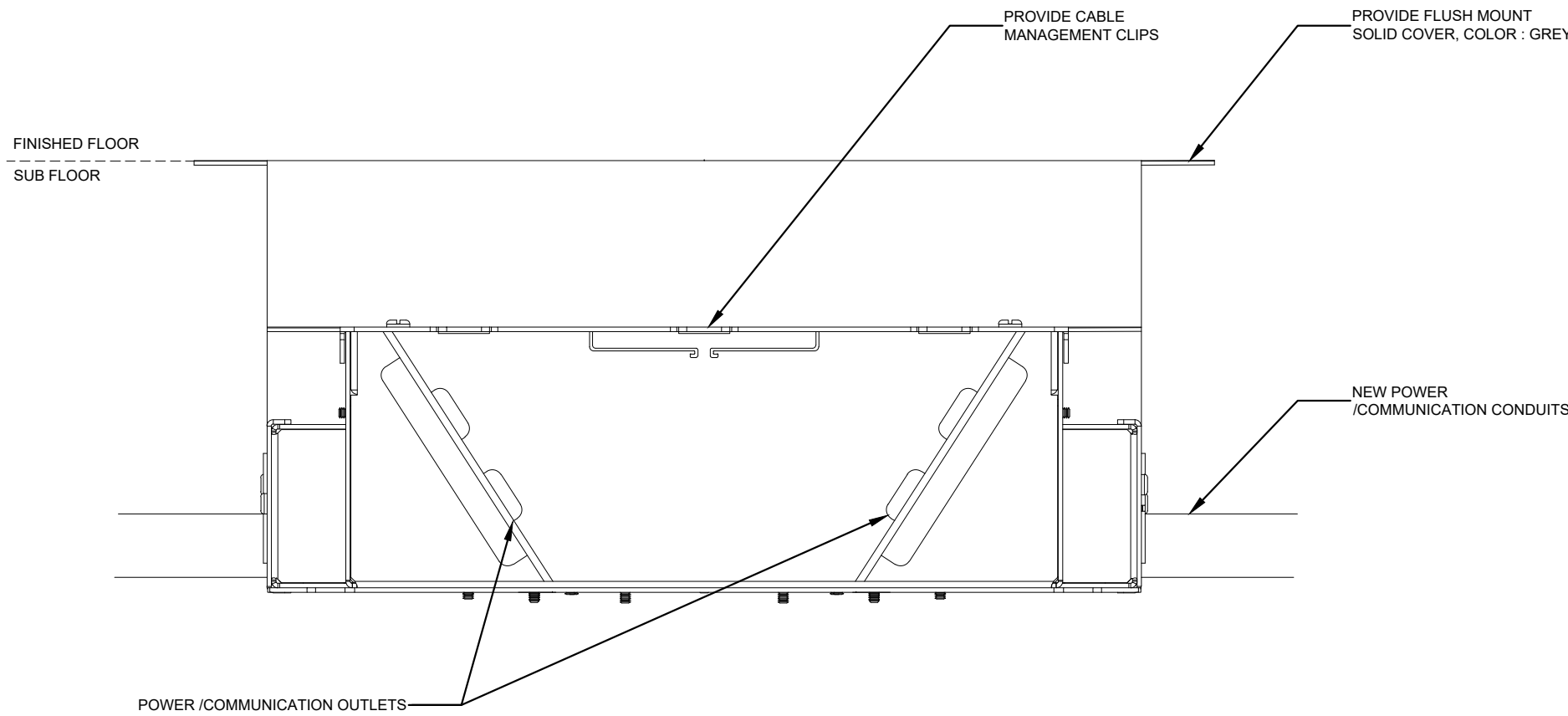
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1 ELECTRICAL DETAIL  
E2.00 SCALE N.T.S.

LIGHTING FIXTURE SCHEDULE						
FIXTURE TYPE	DESCRIPTION	TYPICAL LOCATON	MINIMUM ACCEPTABLE STANDARD	VOLTAGE	LIGHT SOURCE	NOTES
A	RECESSED DOWNLIGHT	MCTS CONTROL ROOM	WILLIAMS 44R	UNV	1500L 17 2W, 3000K	PROVIDE 0-10V DIMMING, 30° DISTRIBUTION. CONTRACTOR TO MATCH EXISTING TRIM, APERTURE AND LIGHTING OUTPUT TO EXISTING FIXTURES.



2 ELECTRICAL FLOOR BOX DETAIL  
E2.00 SCALE N.T.S.

Existing PANEL: 2E-L											
Location: 120/208 V			BUS RATING: 400A								
Supply From: PHASES 3			MAIN BRKR: 4								
Mounting: Surface WIRE 4			A.I.C. Rating: 66								
Manufacturer: Federal Pioneer NBDP664-4LCI			CIRCUITS 66								
CCT No	Load Description	Type	BRK SIZE	A	B	C	BRK SIZE	Type	Load Description	CCT No	
1	EXISTING								EXISTING	2	
3	EXISTING								EXISTING	4	
5	EXISTING								EXISTING	6	
7	EXISTING								EXISTING	8	
9	EXISTING								EXISTING	10	
11	EXISTING								EXISTING	12	
13	EXISTING								EXISTING	14	
15	EXISTING								EXISTING	16	
17	EXISTING								EXISTING	18	
19	EXISTING								EXISTING	20	
21	EXISTING								EXISTING	22	
23	EXISTING								EXISTING	24	
25	EXISTING								EXISTING	26	
27	EXISTING								EXISTING	28	
29	EXISTING								EXISTING	30	
31	EXISTING								EXISTING	32	
33	EXISTING								EXISTING	34	
35	EXISTING						15A		PERIMETER RECEPTACLES	36	
37	EXISTING								EXISTING	38	
39	EXISTING								EXISTING	40	
41	EXISTING								EXISTING	42	

Existing PANEL: NAV GEN 1											
Location: ROOM 5226b			BUS RATING: 225A								
Supply From: SURFACE PHASES 3			MAIN BRKR: 100A								
Mounting: SURFACE WIRE 72			A.I.C. Rating: 100A								
Manufacturer: SQUARE D NQ42L2			CIRCUITS 72								
CCT No	Load Description	Type	BRK SIZE	A	B	C	BRK SIZE	Type	Load Description	CCT No	
1	EXISTING								EXISTING	2	
3	EXISTING								EXISTING	4	
5	EXISTING								EXISTING	6	
7	EXISTING								EXISTING	8	
9	EXISTING								EXISTING	10	
11	EXISTING								EXISTING	12	
13	EXISTING								EXISTING	14	
15	EXISTING								EXISTING	16	
17	EXISTING								EXISTING	18	
19	EXISTING								EXISTING	20	
21	EXISTING								EXISTING	22	
23	EXISTING								EXISTING	24	
25	EXISTING								EXISTING	26	
27	EXISTING								EXISTING	28	
29	EXISTING								EXISTING	30	
31	EXISTING								EXISTING	32	
33	EXISTING								EXISTING	34	
35	EXISTING								EXISTING	36	
37	EXISTING								EXISTING	38	
39	EXISTING								EXISTING	40	
41	EXISTING								EXISTING	42	
43	EXISTING								EXISTING	44	
45	EXISTING								EXISTING	46	
47	EXISTING								EXISTING	48	
49	EXISTING								EXISTING	50	
51	EXISTING								EXISTING	52	
53	EXISTING								EXISTING	54	
55	NEW CONSOLE 1	15A							EXISTING	56	
57	NEW CONSOLE 1	15A							EXISTING	58	
59	NEW CONSOLE 2	15A							EXISTING	60	
61	NEW CONSOLE 2	15A							EXISTING	62	
63									EXISTING	64	
65									EXISTING	66	
67									EXISTING	68	
69									EXISTING	70	
71									EXISTING	72	

Existing PANEL: 2U-L											
Location: ROOM 5226b			BUS RATING: 400A								
Supply From: SURFACE PHASES 3			MAIN BRKR: 4								
Mounting: Surface WIRE 66			A.I.C. Rating: 66								
Manufacturer: Federal Pioneer NBDP664-4LCI			CIRCUITS 66								
CCT No	Load Description	Type	BRK SIZE	A	B	C	BRK SIZE	Type	Load Description	CCT No	
1	EXISTING	15A					15A		EXISTING	2	
3	EXISTING	15A					15A		EXISTING	4	
5	EXISTING	15A					15A		EXISTING	6	
7	EXISTING	15A					15A		EXISTING	8	
9	EXISTING	15A					15A		EXISTING	10	
11	EXISTING	15A					15A		EXISTING	12	
13	EXISTING	15A					15A		EXISTING	14	
15	EXISTING	15A					15A		EXISTING	16	
17	EXISTING	15A					15A		EXISTING	18	
19	EXISTING	15A					15A		EXISTING	20	
21	EXISTING	15A					15A		EXISTING	22	
23	EXISTING	15A					15A		EXISTING	24	
25	EXISTING	15A					15A		EXISTING	26	
27	EXISTING	15A					15A		EXISTING	28	
29	EXISTING	15A					15A		EXISTING	30	
31	EXISTING	15A					15A		EXISTING	32	
33	EXISTING	15A					15A		EXISTING	34	
35	EXISTING	15A					15A		EXISTING	36	
37	EXISTING	15A					15A		EXISTING	38	
39	EXISTING	15A					15A		EXISTING	40	
41	EXISTING	15A					15A		EXISTING	42	
43	EXISTING	15A					15A		EXISTING	44	
45	EXISTING	15A					15A		EXISTING	46	
47	EXISTING	15A					15A		EXISTING	48	
49	EXISTING	15A					15A		EXISTING	50	
51	EXISTING	15A					15A		EXISTING	52	
53	EXISTING	15A					15A		EXISTING	54	
55	EXISTING	15A					15A		EXISTING	56	
57	EXISTING	15A					15A		EXISTING	58	
59	EXISTING	15A					15A		EXISTING	60	
61	EXISTING	15A					15A		EXISTING	62	
63	EXISTING	15A					15A		EXISTING	64	
65	EXISTING	15A					15A		EXISTING	66	

Existing PANEL: 2E-R											
Location: 120/208 V			BUS RATING: 400A								
Supply From: SURFACE PHASES 3			MAIN BRKR: 4								
Mounting: Surface WIRE 4			A.I.C. Rating: 66								
Manufacturer: Federal Pioneer NBDP664-4LCI			CIRCUITS 66								
CCT No	Load Description	Type	BRK SIZE	A	B	C	BRK SIZE	Type	Load Description	CCT No	
43	EXISTING								EXISTING	44	
45	EXISTING								EXISTING	46	
47	EXISTING								EXISTING	48	
49	EXISTING								EXISTING	50	
51	EXISTING								EXISTING	52	
53	EXISTING								EXISTING	54	
55	EXISTING								EXISTING	56	
57	EXISTING								EXISTING	58	
59	EXISTING								EXISTING	60	
61	EXISTING								EXISTING	62	
63	EXISTING								EXISTING	64	
65	EXISTING								EXISTING	66	
67	EXISTING								EXISTING	68	
69	EXISTING								EXISTING	70	
71	EXISTING								EXISTING	72	
73	EXISTING								EXISTING	74	
75	EXISTING								EXISTING	76	
77	EXISTING								EXISTING	78	
79	EXISTING								EXISTING	80	
81	EXISTING								EXISTING	82	
83	EXISTING								EXISTING	84	

Existing PANEL: NAV UPS 1											
Location: ROOM 5226b			VOLTAGE 120/208 V			BUS RATING: 100A					
Supply From: PHASES 3						MAIN BRKR: 100A					
Mounting : Surface WIRE 4						A.I.C. Rating: 22kA					
Manufacturer: SQUARE D NQ42L2			CIRCUITS 72								
CCT No	Load Description	Type	BRK SIZE	A	B	C	BRK SIZE	Type	Load Description	CCT No	
1	EXISTING								EXISTING	2	
3	EXISTING								EXISTING	4	
5	EXISTING								EXISTING	6	
7	EXISTING								EXISTING	8	
9	EXISTING								EXISTING	10	
11	EXISTING								EXISTING	12	
13	EXISTING								EXISTING	14	
15	EXISTING								EXISTING	16	
17	EXISTING								EXISTING	18	
19	EXISTING								EXISTING	20	
21	EXISTING								EXISTING	22	
23	EXISTING								EXISTING	24	
25	EXISTING								EXISTING	26	
27	EXISTING								EXISTING	28	
29	EXISTING								EXISTING	30	
31	EXISTING								EXISTING	32	
33	EXISTING								EXISTING	34	
35	EXISTING								EXISTING	36	
37	EXISTING								EXISTING	38	
39	EXISTING								EXISTING	40	
41	EXISTING								EXISTING	42	
43	EXISTING									44	
45	EXISTING									46	
47	EXISTING									48	
49	EXISTING									50	
51	NEW C/ONSOLE 1	15A								52	
53	NEW C/ONSOLE 1	15A								54	
55	NEW C/ONSOLE 2	15A								56	
57	NEW C/ONSOLE 2	15A								58	
59										60	
61										62	
63										64	
65										66	
67										68	
69										70	
71										72	