

## ADDENDUM #6

Oct 28, 2024

DCA Project No.: 22-136  
Project Name: York Region Warehouse Upgrades

To: All Bidders, All Consultants, Project Manager  
# of pages : 23

This addendum forms part of the Bid Documents and should be read in conjunction with the Drawings and Specifications forming the Bid Documents. Information contained in this Addendum supersedes or replaces previous information.

### REVISIONS TO ELECTRICAL AND MECHANICAL:

*Where applicable, refer to all bubbled/ highlighted areas on attached drawings and specifications for required revisions to contract documents.*

1. Refer to attached Electrical Addendum “E01” and Mechanical Addendum “M01” for required revisions to tender documents.

END OF ADDENDUM #6



Leo Tang, OAA | Architect  
**DAVID CARTER ARCHITECTS**

<b>Project Name:</b>	Harry Walker Parkway Warehouse Upgrade	<b>Date Issued:</b>	October 28, 2024
<b>Quasar Project #:</b>	CM-22-149		
<b>Client Project #:</b>			

**Distribution**

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Quasar Consulting Group	Antonio Zuniga	Antonio.zuniga@quasarcg.com

**Addendum #:** E01

**Revision #:**

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

**1.0 Revisions to Specifications [Refer to the attached specifications for details]:**

1. N/A

**Changes to Drawings:**
**2.0 Revisions to Drawings [Refer to the attached drawings for details]:**

- .1 Drawing – E-002 – EV CHARGER SITE PLAN**
  - i) Refer to attached drawing for roof mounted conduits clarification.
  - ii) Refer to attached drawing for EV charger conduits clarifications.
  - iii) Added sheet keynote 4.
- .2 Drawing- E- 101- EXISTING POWER & SYSTEMS PLAN – MAIN FLOOR**
  - i) The information has been revised and PP-LAB is existing and not new.
- .3 Drawing- E- 102- POWER & SYSTEMS – PUBLIC WORKS**
  - i) Refer to attached drawing general sheet notes for EV transformer scope of work clarification.
  - ii) Added ceiling fans CF-1 and CF-2. Refer to sheet E-102 for specific locations.
- .4 Drawing- E- 104- POWER & SYSTEMS – Corporate Services**
  - i) Added ceiling fans CF-3, CF-4, CF-5 and CF-6. Refer to sheet E-104 for specific locations.
- .5 Drawing – E-106 – POWER & SYSTEMS PLAN – ELECTRICAL ROOM**
  - i) Refer to attached drawing general sheet notes for new switchboard space constraints.
- .6 Drawing- E- 104- POWER & SYSTEMS – Corporate Services**
  - i) Information has been revised and scale to drawing has been added.
- .7 Drawing- E-201- PUBLIC WORKS NEW LIGHTING PLAN – MAIN FLOOR**
  - i) Updated FB1 lighting fixtures to fixture A.
  - ii) Refer to attached drawing general sheet notes.
- .8 Drawing- E-202- LIGHTING LAYOUT PUBLIC WORKS LEVEL 2 – MAIN FLOOR**
  - i) Refer to attached drawing general sheet notes.
- .9 Drawing- E-204- LIGHTING LAYOUT - MEZZANINE LEVEL**
  - i) Refer to attached drawing general sheet notes.

**.10 Drawing- E-306- LIGHTING SCHEDULES**

- i) Added note 6 and updated note 4 on lighting fixture schedule notes.
- ii) Added X3 exit signs to emergency lighting and exit sign schedule.

**.11 Drawing- E-308- ELECTRICAL PANEL SCHEDULES 2**

- i) Added EV chargers to panel DP-EV2.
- ii) Added ceiling fans and ceiling fan controls to panel RP-M.

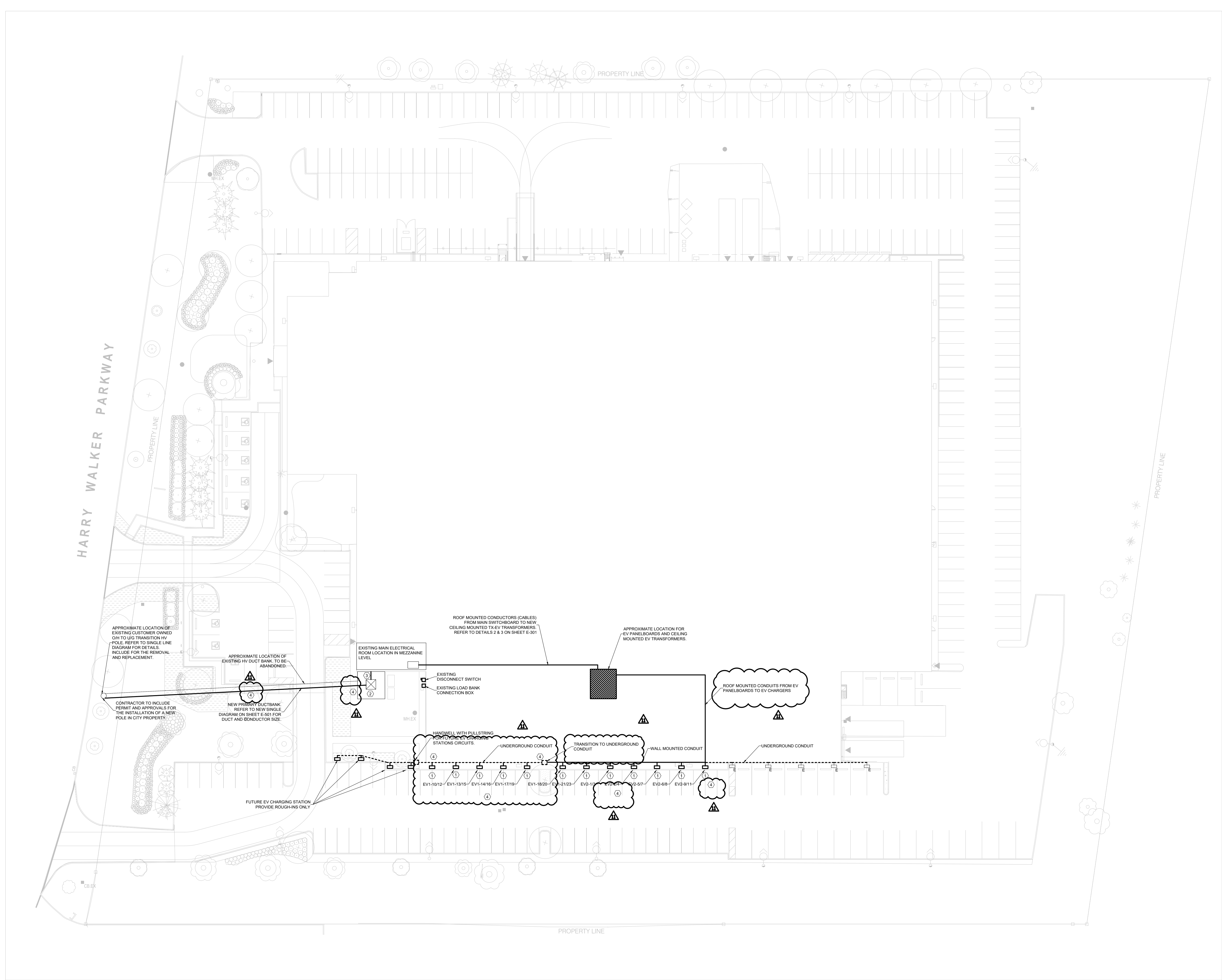
**.12 Drawing- E-501- NEW SINGLE LINE DIAGRAM**

- i) Information has been revised and panels DP-EV3 and EV-4 are now future panels.

Quasar Consulting Group

**Antonio Zuniga**, MSc., PMP, LEED AP BD+C

Team Lead



SHEET KEYNOTES

1.

EV CHARGING STATION TO BE FED FROM TRANSITION BOX MOUNTED ON WALL. ROUTING THE CONDUIT UNDERGROUND TO THE EV STATION. REFER TO DETAIL 2 ON SHEET E-302.

2.

EXISTING 1000KVA PADMOUNTED CUSTOMER OWNED TRANSFORMER TO BE REPLACED WITH NEW CUSTOMER OWNED TRANSFORMER FOR THE NEW ELECTRICAL SERVICE UPGRADE. EXISTING TRANSFORMER TO BE REMOVED AND STORED ON SITE AT A LOCATION INSTRUCTED BY OWNER. REFER TO DETAIL 1 ON SHEET E-302 AND DETAILS 3 AND 4 ON SHEET E-304.

3.

REPLACE CONCRETE PAD. CONTRACTOR TO INCLUDE COST OF NEW PAD MOUNTED TRANSFORMER VAULT AND GROUNDING. CONFIRM THE RECOMMENDED TRANSFORMER VAULT MAKE AND MODEL WITH TRANSFORMER MANUFACTURER AND PROVIDE THE CONSULTANT WITH SHOP DRAWING PRIOR TO PURCHASE.

4.

CONDUCTORS TO TRANSITION FROM UNDERGROUND TO EXTERIOR WALL AND RUN UP SURFACED TO ELECTRICAL ROOM LOCATED ON SECOND LEVEL. RE-USE EXISTING CONDUCTORS ROUTE IF POSSIBLE. REMOVE EXISTING SECONDARY CONDUCTORS AND REPLACE WITH NEW, RE-USE EXISTING CONDUCTOR ROUTING TO EXISTING MAIN SWITCHBOARD.

4.

CONTRACTOR TO RESTORE ALL LANDSCAPE AND HARDSCAPE SURFACES IMPACTED IN THE ELECTRICAL SCOPE OF WORK. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS.

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9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
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1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
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REVISIONS

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PROJECT NORTH

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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

EV CHARGER SITE PLAN

CHECKED

TS

PROJECT No.  
CM-22-149

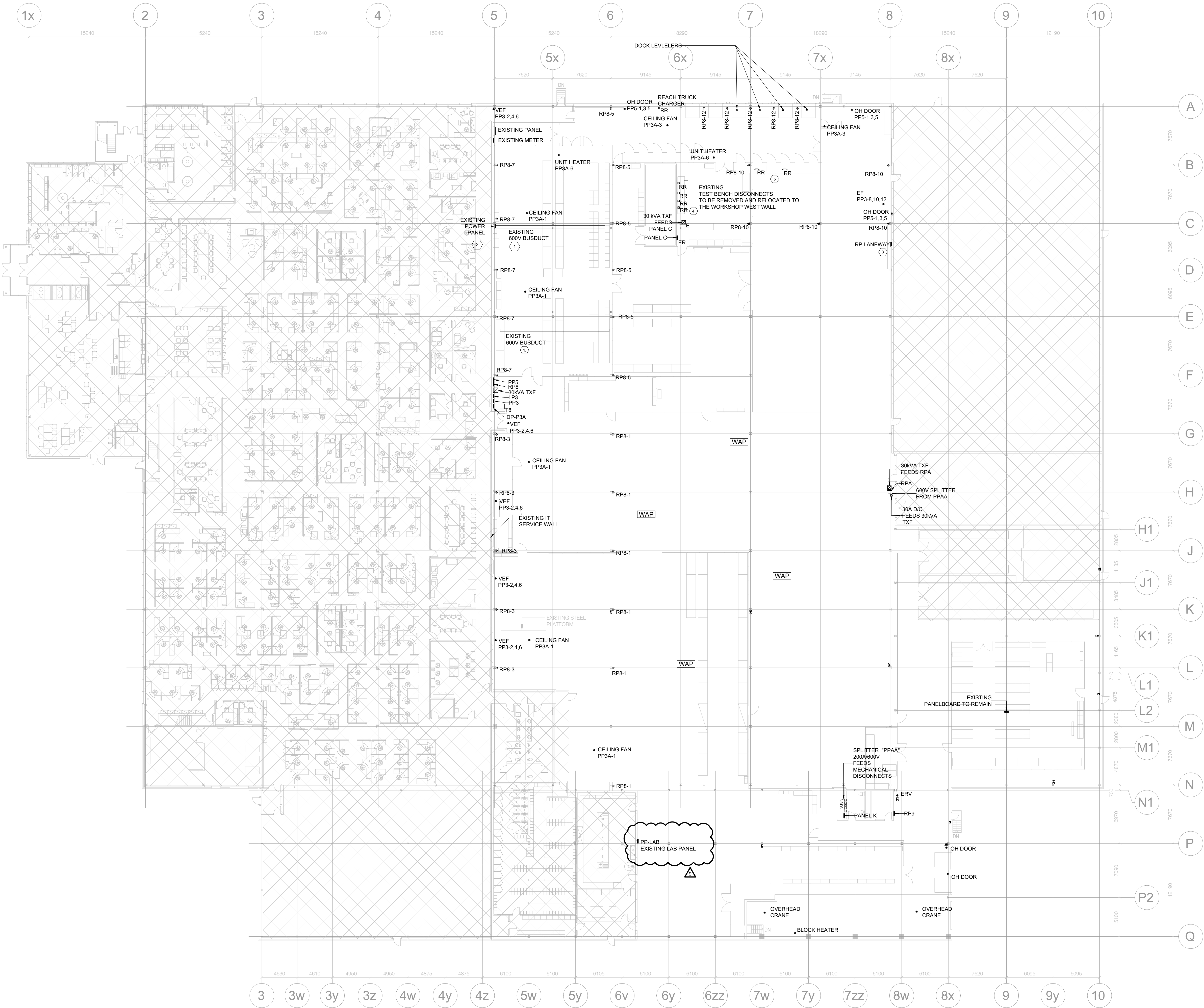
SCALE

AS SHOWN

DRAWING No.

E-002





### GENERAL SHEET NOTES

- THIS DRAWING IS TO BE READ IN COORDINATION WITH MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWING SET.
- THIS IS AN EXISTING BUILDING. NOT ALL EXISTING DEVICES ARE CAPTURED. IT IS THE CONTRACTORS RESPONSIBILITY TO WALK THROUGH THE SITE PRIOR TO TENDER AND ENSURE ALL DEVICES ARE CAPTURED.
- IF A DEVICE IS NOT NOTED TO BE DEMOLISHED THEN IT IS EXISTING TO REMAIN.
- HATCHED AREA NOT IN CONTRACT.
- EXISTING BRANCH CIRCUIT WIRING IS NOTED IN THIS DRAWING FOR INFORMATION PURPOSES ONLY TO ORIENT THE CONTRACTOR DURING THE SITE INVESTIGATION. THIS INFORMATION HAS TO BE CONFIRMED ON-SITE BY THE CONTRACTOR.

### SHEET KEYNOTES

- ELECTRICAL CONTRACTOR TO ALLOW FOR THE COST OF INVESTIGATION AND DISCONNECTION OF OVERHEAD 600V BUSDUCT. EXISTING 600V BUSDUCT ELECTRICAL FEEDER TO REMAIN AND BE EXTENDED TO NEW WORKSHOP AREA AND TERMINATE AT 400A DISCONNECT SWITCH (SHOWN IN DRAWING E-104). SPLITTER TROUGH TO BE FED FROM THE 400A DISCONNECT SWITCH. RE-CONNECT RP-LANEWAY AND PANEL C FROM SPLITTER THROUGH.
- REMOVE PANELBOARD, ELECTRICAL FEEDER BACK TO SOURCE AND BRACH CIRCUITS.
- RP-LANEWAY IS CURRENTLY FED FROM THE EXISTING 600V BUSDUCT. KEEP THE FEEDER AND CONNECT TO NEW 400A SPLITTER TROUGH TO MAINTAIN THE POWER CONNECTION.
- REMOVE DISCONNECTS AND RELOCATE AS SHOWN IN DRAWING E-104. PULL BACK DISCONNECTS ELECTRICAL FEED AND EXTEND TO NEW LOCATION.
- COORDINATE FINAL SECURITY CAMERA LOCATION WITH OWNER.

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7	2024-08-29	ISSUED FOR TENDER	TS
6	2024-07-18	ISSUED FOR PERMIT	TS
5	2024-06-11	ISSUED FOR 100% CD	AZZ
4	2024-05-15	ISSUED FOR 50% CD	AZZ
3	2024-03-28	ISSUED FOR 100% DD R1	TS
2	2023-10-30	ISSUED FOR 100% DD	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ

No.	DATE	DESCRIPTION	CH D
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PROJECT NORTH



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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**EXISTING POWER & SYSTEMS PLAN - MAIN FLOOR**

CHECKED	TS	PROJECT No.	CM-22-149
SCALE	1:250	DRAWING No.	E-101



# GENERAL SHEET NOTES

- THIS DRAWING IS TO BE READ IN COORDINATION WITH MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWING SET.
- THIS IS AN EXISTING BUILDING. NOT ALL EXISTING DEVICES ARE CAPTURED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDER AND GATHER THE COMPLETE SCOPE OF WORK BASED ON EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR TO DIFFERENTIATE BETWEEN CORPORATE SERVICES (TAG RED) & SCADA (TAG BLUE) DATA CABLE DROPS.
- ELECTRICAL CONTRACTOR TO INCLUDE FOR INSTALLATION OF ALL CONDUITS FOR ALL FOUR TX TRANSFORMERS AND DP DISTRIBUTION PANELS FOR EVS. PROVIDE AND INSTALL ONE NEW EV TX TRANSFORMER AND ITS ASSOCIATED DP DISTRIBUTION PANEL. COORDINATE EXACT TX AND DP ON SITE.

# SHEET KEYNOTES

- PROVIDE 20A DUPLEX RECEPTACLE CORD REEL. REFER TO DETAIL 6 ON SHEET E-302
- CONTRACTOR TO CONFIRM RECEPTACLE CSA CONFIGURATION WITH OWNER PRIOR TO INSTALLATION. ALLOW FOR NEUTRAL CONDUCTOR.
- NEW FIRE ALARM HORN/STROBE DEVICES SHOWN TO BE CONNECTED TO NEAREST NOTIFICATION APPLIANCE CIRCUIT.
- ALLOW FOR A FIRE ALARM ZONE FOR GAS DETECTION. INCLUDE ALL WIRING, CONDUIT, AND TESTING.
- ONLY BACKBOXES AND CINDUTS PROVIDED BACK TO EXISTING HEAD END.
- PROVIDE 2 DATA DROPS PER DATA OUTLET WHERE "2D" IS SHOWN.
- TRANSFORMERS TO BE CEILING MOUNTED. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND CONFIRM STRUCTURAL SUPPORT WITH ARCHITECT AND STRUCTURAL ENGINEER.
- REFER TO FIRE ALARM ZONE AND SUPERVISORY ZONE SCHEDULE ON SHEET E-300.
- ALL ELECTRICAL AND IT DEVICES IN SCADA ROOMS TO BE CONNECTED TO PANEL RP-SC BACKED UP BY THE UPS[REFER TO SINGLE LINE DIAGRAM].
- COORDINATE FINAL LOCATION OF NEW UPS, DOUBLE THROW SWITCHES AND PANEL RP-SC WITHIN THE SCADA ROOMS AREA WITH OWNER PRIOR TO INSTALLATION.

11	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
10	2024-09-30	RE-ISSUED FOR TENDER	TS
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR REVIEW	AZC
5	2024-03-28	ISSUED FOR 100% DD R1	AZC
4	2024-02-27	ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-08-15	ISSUED FOR 66% DESIGN DEVELOPMENT	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

## REVISIONS

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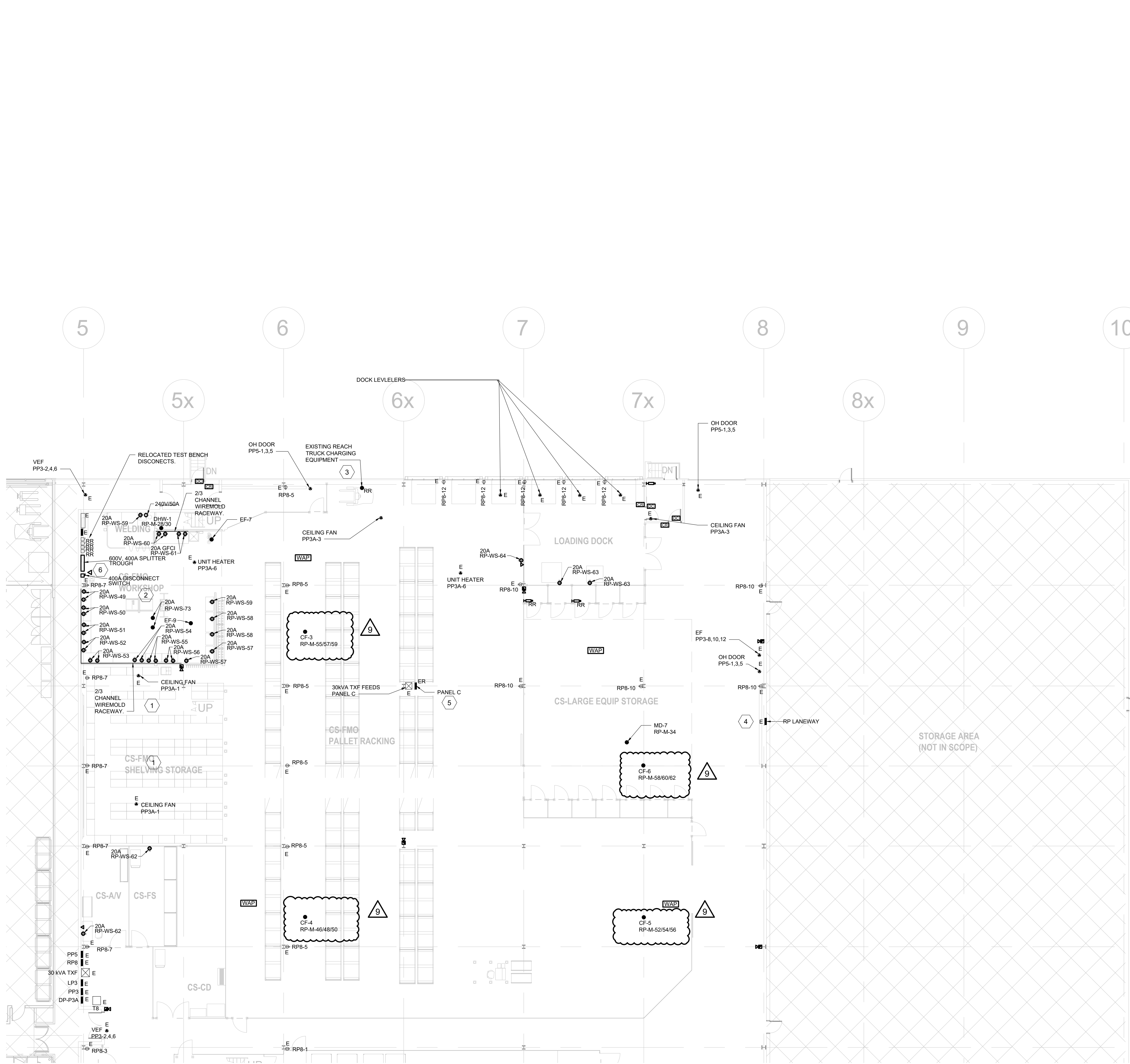
PROJECT  
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**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**POWER & SYSTEMS - PUBLIC WORKS**

CHECKED TS PROJECT No. **CM-22-149**

SCALE 1:150 DRAWING No. **E-102**





### GENERAL SHEET NOTES

- THIS DRAWING IS TO BE READ IN COORDINATION WITH MECHANICAL, STRUCTURAL, AND ARCHITECTURAL DRAWING SET.
- THIS IS AN EXISTING BUILDING. NOT ALL EXISTING DEVICES ARE CAPTURED.
- ELECTRICAL CONTRACTOR TO REMOVE EMPTY RACEWAYS, PULL BOXES, HANGERS AND SUPPORTS (INCLUDING SNAP-ON HARDWARE) MOUNTED ON CEILING, WALL, AND COLUMN SPACES. SEE DEMOLITION CASH ALLOWANCE.

### SHEET KEYNOTES

- ELECTRICAL CONTRACTOR TO ALLOW FOR THE COST OF INVESTIGATION AND DISCONNECTION OF OVERHEAD 600V BUS DUCT. BUS DUCT FEEDER TO REMAIN AND BE RE-ROUTED AND CONNECTED TO NEW 400A SPLITTER THROUGH.
- PROVIDE 20A DUPLEX RECEPTACLE CORD REEL. REFER TO DETAIL 6 ON SHEET E-302.
- ELECTRICAL CONTRACTOR TO COORDINATE RELOCATION OF REACH TRUCK CHARGER POWER CONNECTION WITH CLIENT. CONFIRM LOCATION AND POWER REQUIREMENTS WITH CLIENT PRIOR TO RE-LOCATION.
- ELECTRICAL CONTRACTOR TO CONNECT RP-LANEWAY FROM NEW 400A SPLITTER THROUGH.
- ELECTRICAL CONTRACTOR TO CONNECT PANEL C TRANSFORMER FROM NEW 400A SPLITTER THROUGH.
- ZENITEL ITS-V2 DESKTOP VIDEO INTERCOM PHONE TO BE SUPPLIED AND INSTALLED IN THE SECURITY OFFICE AND CONNECTED TO YR NETWORK. PROVIDE DATA DROP AND CONDUIT ALLOW FOR 100FT. COORDINATE FINAL LOCATION WITH OWNER.

9	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
8	2024-09-30	RE-ISSUED FOR TENDER	TS
7	2024-08-29	ISSUED FOR TENDER	TS
6	2024-07-18	ISSUED FOR PERMIT	TS
5	2024-06-11	ISSUED FOR 100% CD	AZ
4	2024-05-15	ISSUED FOR 50% CD	AZC
3	2024-03-28	ISSUED FOR 100% DD R1	TS
2	2023-10-30	ISSUED FOR 100% DD	AZ
1	2023-08-01	ISSUED FOR 66% DD COSTING	AZ
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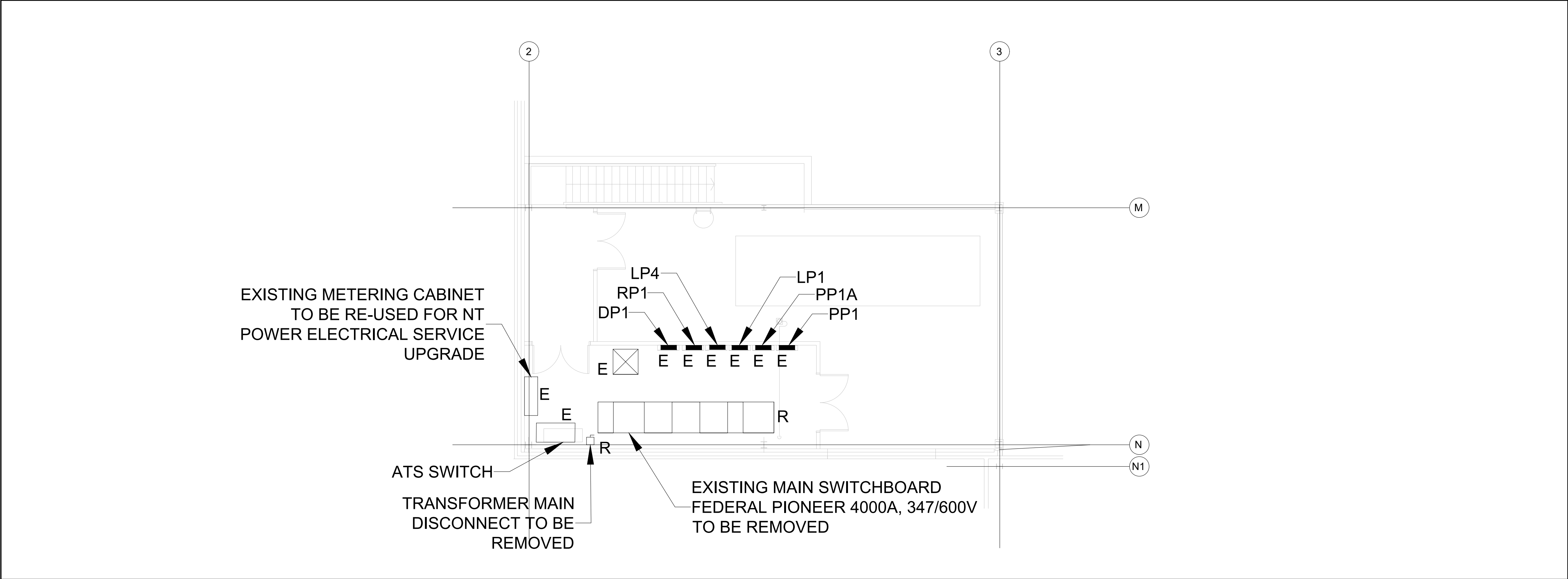
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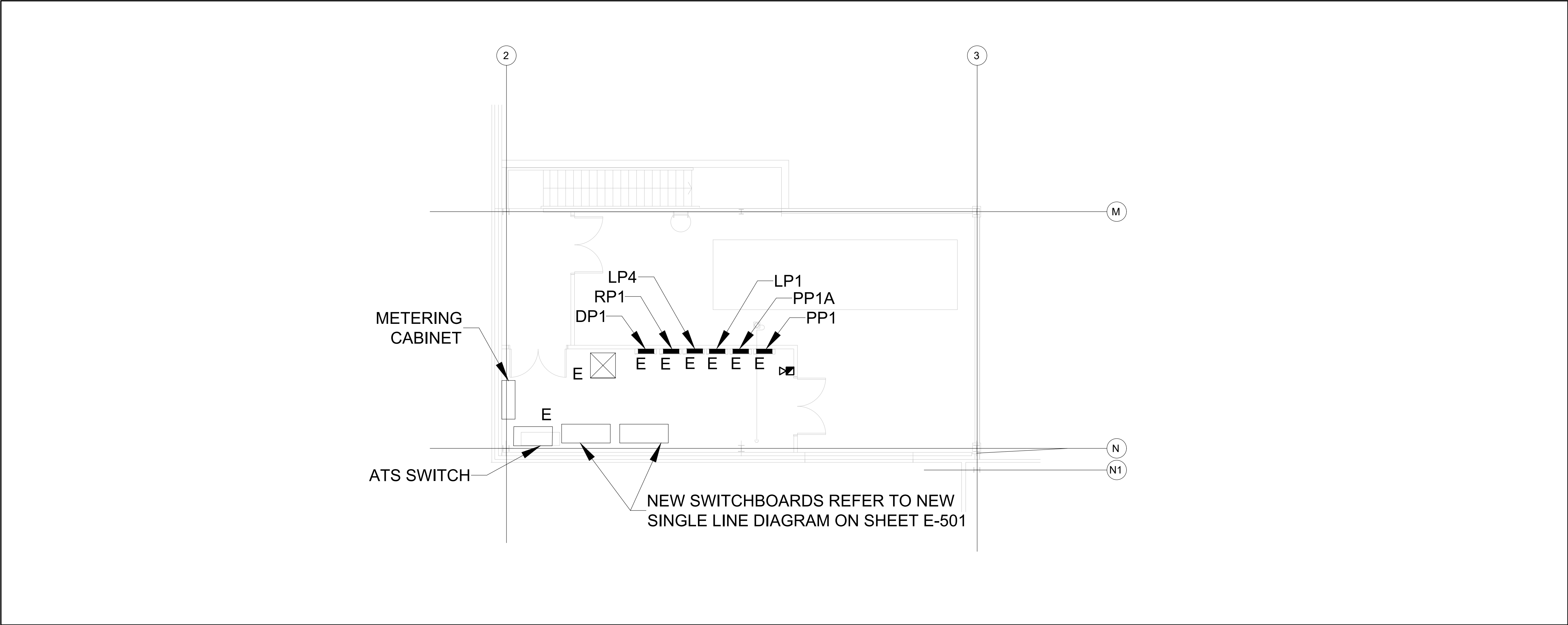
PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**POWER AND SYSTEMS -CORPORATE SERVICES**

CHECKED TS	PROJECT No. <b>CM-22-149</b>
SCALE 1:150	DRAWING No. <b>E-104</b>



1 ELECTRICAL ROOM LAYOUT - EXISTING  
SCALE: 1:100



2 ELECTRICAL ROOM LAYOUT - NEW LAYOUT  
SCALE: 1:100

#### GENERAL SHEET NOTES

- SPACE CONSTRAINTS FOR NEW SWITCHBOARD LEADING TO THE ELECTRICAL ROOM ARE AS FOLLOWS. THE STAIRS LEADING UP TO THE ELECTRICAL ROOM IS 3 FEET 10 INCHES WIDE. THE DOUBLE DOOR AT THE END OF THE STAIRS TO THE ELECTRICAL ROOM IS 5 FEET 8 INCHES WIDE. ARCHITECT WILL PROVIDE A 5 FEET BY 5 FEET OPENING IN THE ELECTRICAL ROOM SOUTH WALL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. CONSULT WITH SWITCHBOARD MANUFACTURER FOR PACKAGING AND DELIVERY TO ENSURE FEASIBILITY ON DELIVERY DUE TO SPACE CONSTRAINTS.

11

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8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

POWER AND SYSTEMS PLAN - ELECTRICAL ROOM

CHECKED

TS

PROJECT No.

CM-22-149

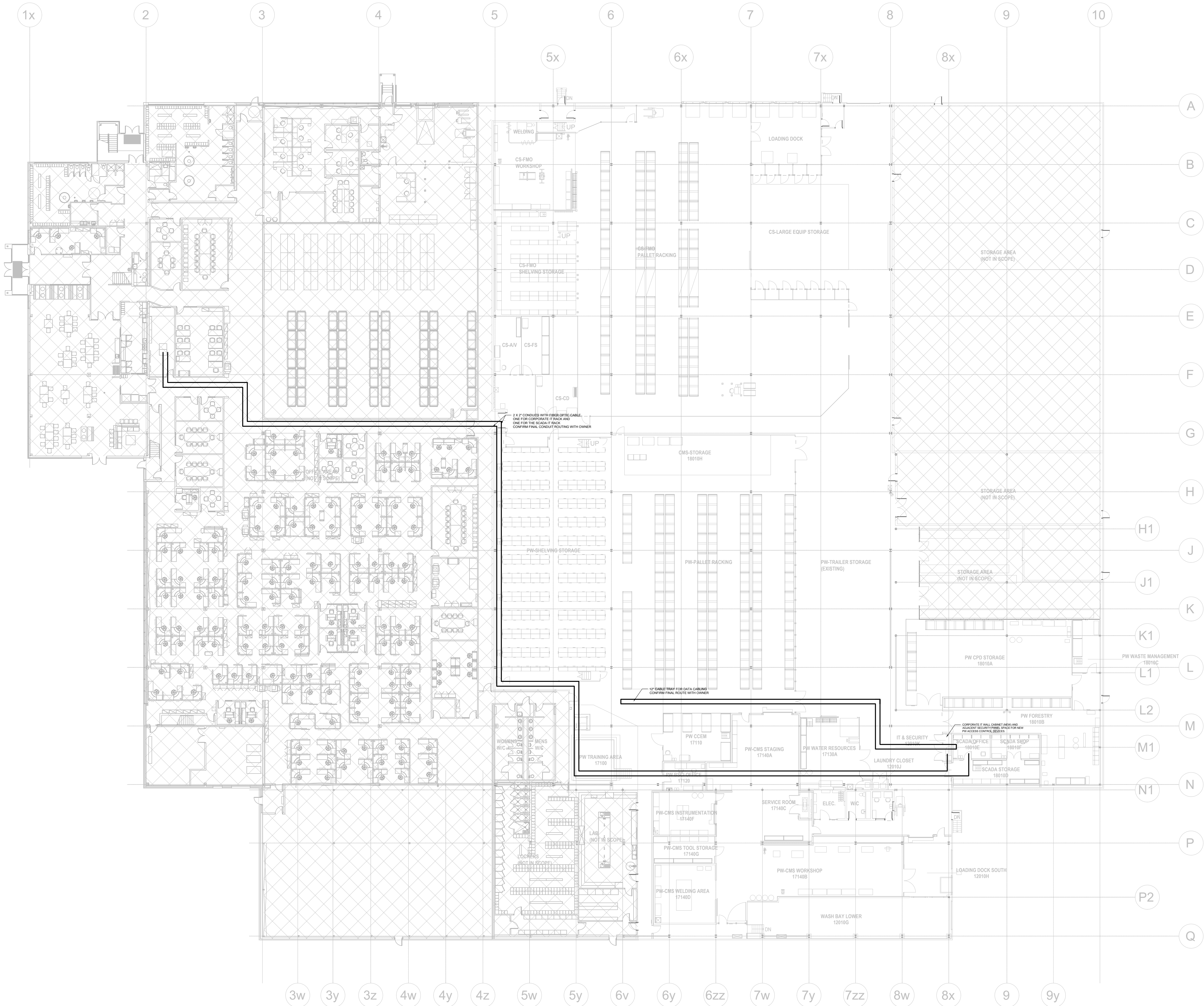
SCALE

AS SHOWN

DRAWING No.

E-106





11	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
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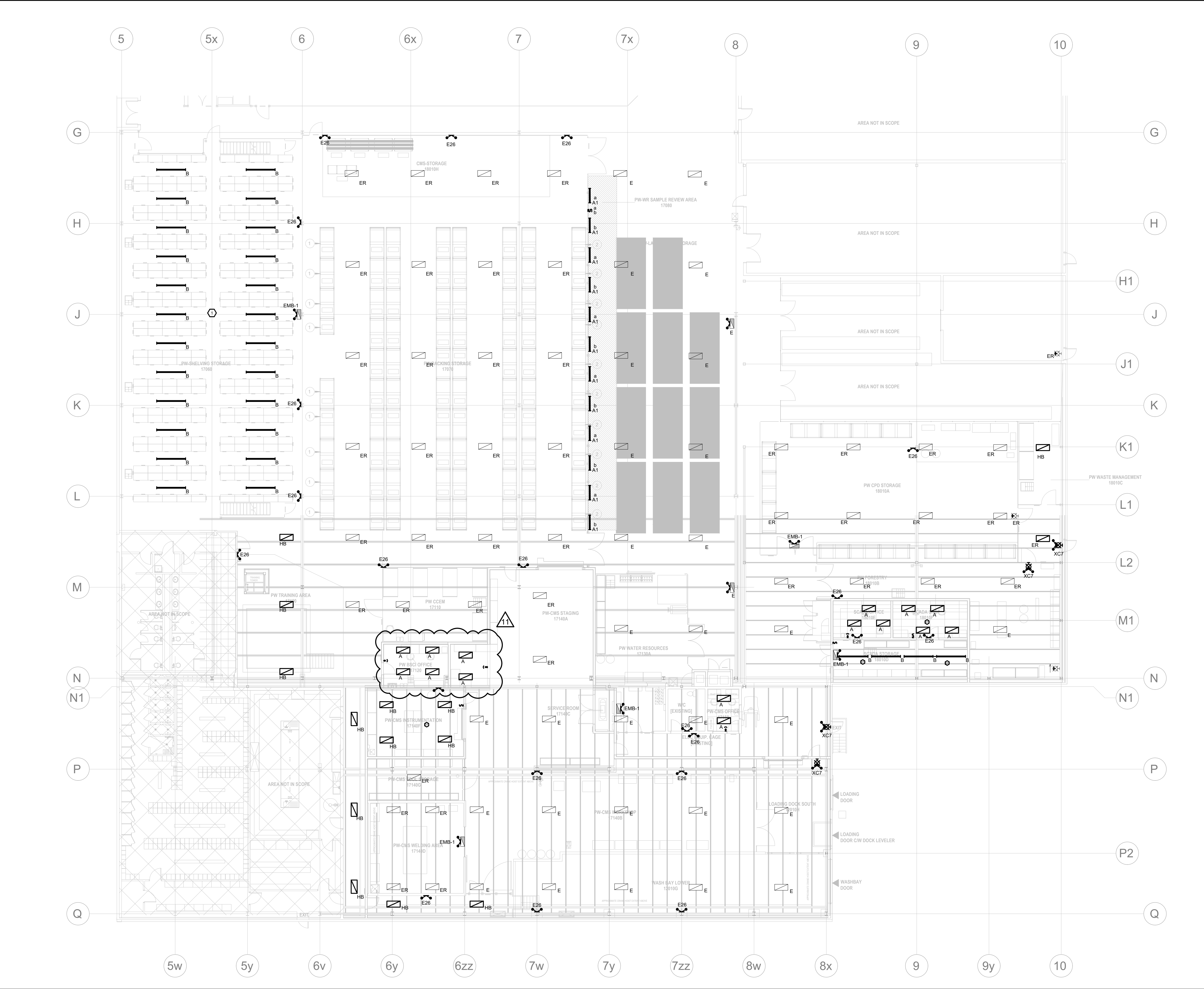
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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**GROUND FLOOR OVERALL PLAN - NEW**

CHECKED	TS	PROJECT No.	CM-22-149
SCALE	1:250	DRAWING No.	E-108





GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS

2. HATCHED AREA NOT IN CONTRACT.

3. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.

4. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.

5. NEW HIGH BAY FIXTURES TO BE MOUNTED ON A HIGHER LEVEL THAN RACKING. COORDINATE HEIGHT INTERFERENCES WITH RACKING ON SITE.

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PROJECT

HWP WAREHOUSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

PUBLIC WORKS NEW LIGHTING PLAN - MAIN FLOOR

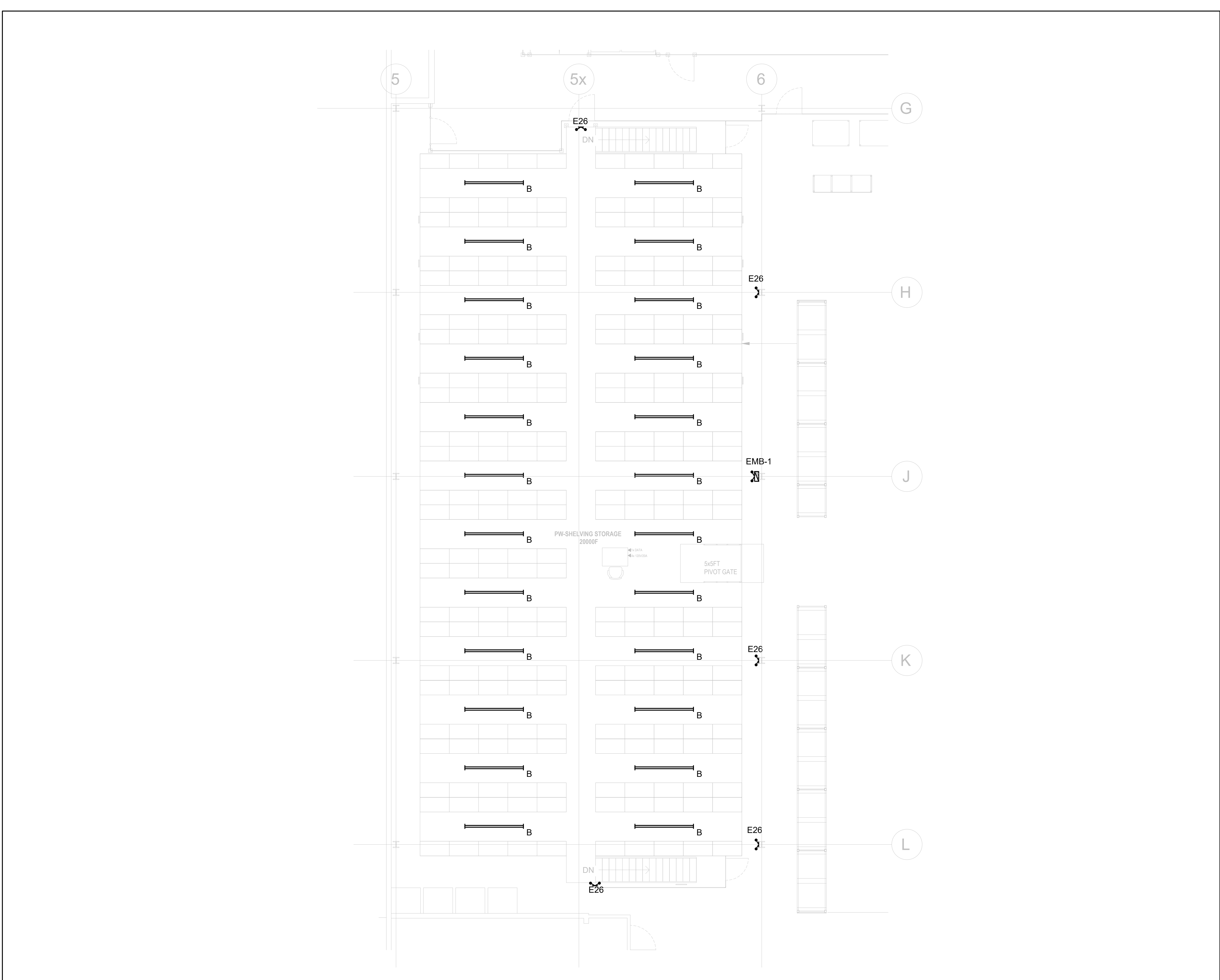
CHECKED TS

PROJECT No.  
CM-22-149

SCALE  
1:150

DRAWING No.  
E-201





### GENERAL SHEET NOTES

1. ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
2. HATCHED AREA NOT IN CONTRACT.
3. CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINARIES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
4. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUITS OBTAINED DURING DEMOLITION.
5. ELECTRICAL CONTRACTOR TO PROVIDE 2 ADDITIONAL 20A/1P CIRCUITS FOR MEZZANINE LIGHTING, FROM NEAREST LIGHTING PANELBOARD. USE ONLY IF EXISTING CIRCUITS ARE LOADED TO MAXIMUM CAPACITY.
6. NEW HIGH BAY FIXTURES TO BE MOUNTED ON A HIGHER LEVEL THAN RACKING. COORDINATE HEIGHT INTERFERENCES WITH RACKING ON SITE.



11	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

#### REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.

PROJECT NORTH



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

PROJECT

**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE

**LIGHTING LAYOUT - PUBLIC WORKS LEVEL 2**

CHECKED

TS

PROJECT No.

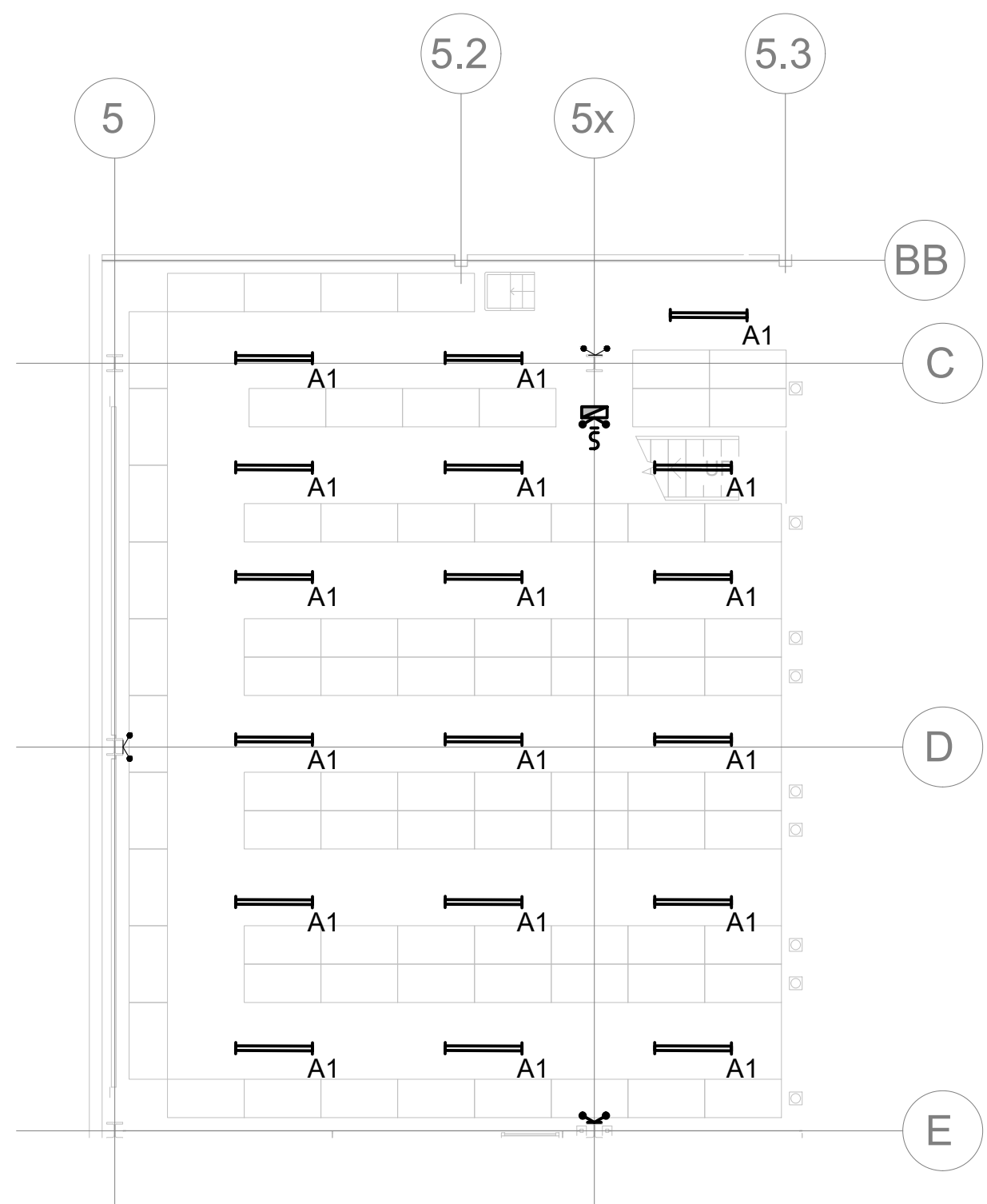
**CM-22-149**

SCALE

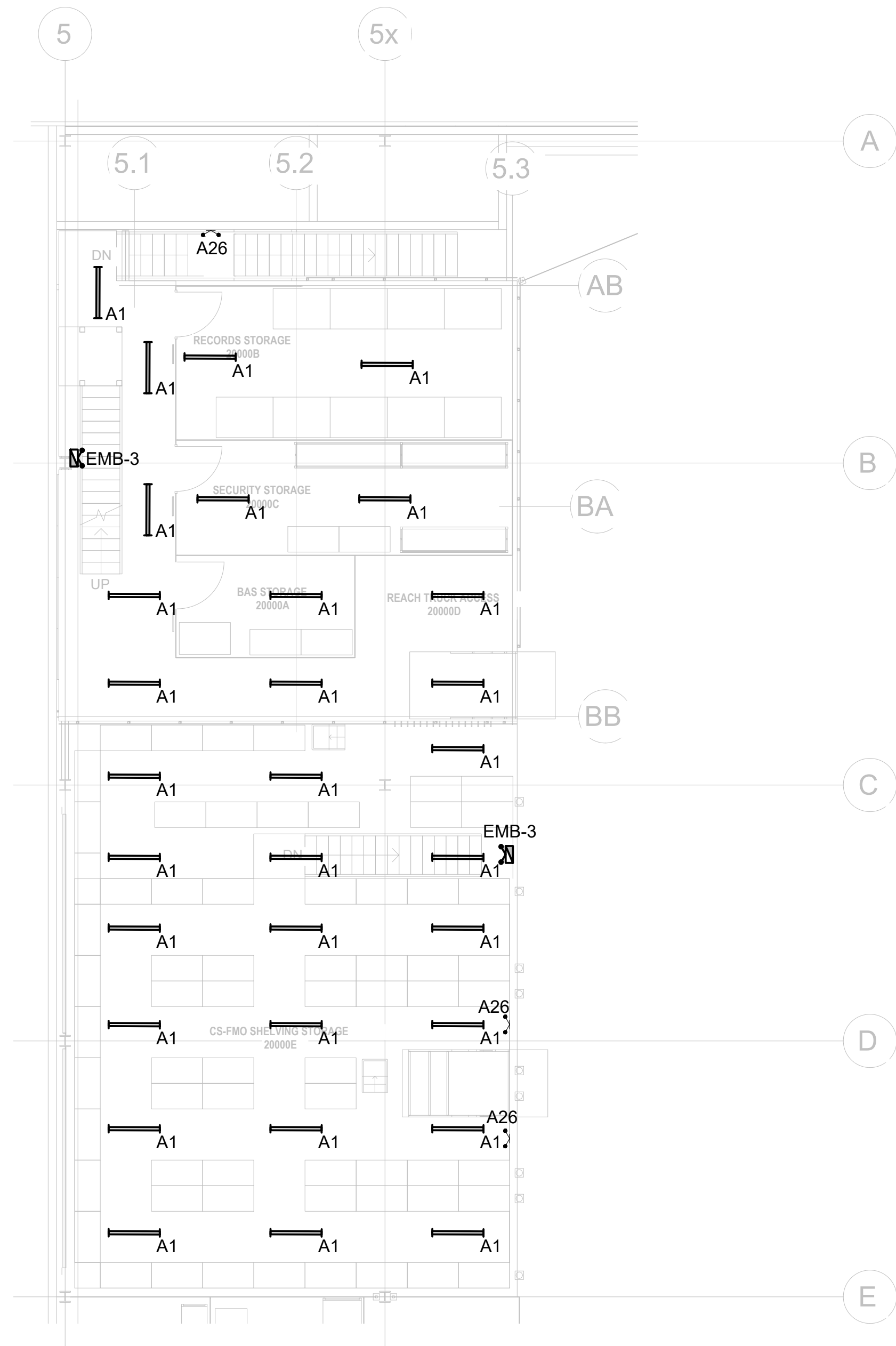
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DRAWING No.

**E-202**



1 LIGHTING LAYOUT - MEZZANINE LEVEL 1  
SCALE: 1:100



2 LIGHTING LAYOUT - MEZANINE LEVEL 2  
SCALE: 1:100

GENERAL SHEET NOTES

- ELECTRICAL CONTRACTOR TO CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CONTROLS
- CONTRACTOR TO INVESTIGATE AND CONFIRM LIGHTING PANELBOARD FEEDING EXISTING LUMINAIRES, EXIT SIGNS & EMERGENCY BATTERY UNITS FOR EMERGENCY LIGHTING AND EXTEND WIRING TO NEW & RELOCATED LIGHTING FIXTURES.
- CONNECT NEW LIGHTING FIXTURES TO EXISTING ~~SUBMIT TO ELECTRICAL CONTRACTOR~~
- ELECTRICAL CONTRACTOR TO PROVIDE 2 ADDITIONAL 20A/1P CIRCUITS FOR MEZZANINE LIGHTING, FROM NEAREST LIGHTING PANELBOARD. USE ONLY IF EXISTING CIRCUITS ARE LOADED TO MAXIMUM CAPACITY.
- NEW HIGH BAY FIXTURES TO BE MOUNTED ON A HIGHER LEVEL THAN RACKING. COORDINATE HEIGHT INTERFERENCES WITH RACKING ON SITE.



11	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH'D

REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.

PROJECT NORTH



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARCG.COM

PROJECT

HWP WAREHOSE UPGRADE  
145 HARRY WALKER PARKWAY  
NEWMARKET  
ON L3Y 7B3

TITLE

LIGHTING LAYOUT - MEZZANINE LEVEL

CHECKED

TS

PROJECT No.

CM-22-149




SCALE

AS SHOWN

DRAWING No.

E-204



SCHEDULE 26 06 50.16.B - LED LIGHTING FIXTURE SCHEDULE								
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND CAT NO SEE NOTE 1	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
	HB	INDUSTRIAL HIGH BAY LIGHTING FIXTURE LED	DAY-BRITE CFI BY SIGNIFY - FBX LED HIGH BAY	347 V	MATCH EXISTING FIXTURES LUMEN PACKAGE	SUSPENDED AT THE SAME HEIGHT AS EXISTING HIGH BAY FIXTURES		REFER TO NOTE 4. ALLOW FOR THE COST OF INVESTIGATING THE EXISTING FIXTURES TECHNICAL DETAILS.
	A	RECESSED 2'x4' TROFFER OR FLAT PANEL LUMINAIRE, COMPATIBLE WITH LAY-IN CEILING. REFER TO CEILING SPECIFICATION FOR SPECIAL REQUIREMENTS.	CPXL LED FLAT PANEL SWITCHABLE LUMEN PANEL	347 V	4000/5000/6000 LM 35/40/50 K	RECESSED IN LAY-IN CEILING MH- 9FT		
	B	8FT LED STRIP LIGHT	SIGNIFY FLUX STREAM MODEL NO FSS-8-60L-840-347	347V 53 WATTS	6000 LUMENS 4000K 80+ CRI	SURFACE MH- 9FT		
	A1	4FT LED STRIP LIGHT	SIGNIFY FLUX STREAM MODEL NO FSS-4-40L-840-347	347V 48 WATTS	4000 LUMENS 4000K	SURFACE MH- 9FT		

LIGHTING FIXTURE SCHEDULE NOTES:  
1. UNLESS NOTED OTHERWISE, ACCEPTED SUBSTITUTE MANUFACTURERS AND SUPPLIERS: ACUTY BRANDS LIGHTING, COOPER LIGHTING SOLUTIONS, ORICE CANADA, HUBBELL LIGHTING, FETTERLESS ELECTRIC, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCO/VSIONENGINEERING.  
2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIES MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.  
3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.  
4. REUSE EXISTING REMOVED FIXTURES WHERE HB FIXTURES ARE SHOWN. PROVIDE NEW HB FIXTURES IF EXISTING REMOVED HB FIXTURES ARE NOT SUFFICIENT. ALLOW FOR THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 8 NEW HB FIXTURES.  
5. CONTRACTOR TO ALLOW FOR THE INVESTIGATION OF EXISTING HIGH BAY LIGHT FIXTURES MAKE MODEL AND PHOTOMETRIC ANALYSIS TO MATCH EXISTING LIGHTING LEVELS.  
6. CONTRACTOR TO COORDINATE LIGHTING FIXTURE MOUNTING KIT WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO PURCHASING.

1

LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S.






LIGHTING CONTROLS MATRIX																							
SPACE TYPE	CONTROLS PHILOSOPHY	LOCAL CONTROL (ASHRAE 90.1-2013 9.4.1.1a)								OCCUPANCY SENSOR				TIME SCHEDULE		DAYLIGHT SENSOR		OTHER		REMARKS			
		CONTROLS INTEGRATED INTO LUMINAIRES	STANDALONE CONTROL DEVICES	NETWORKED LIGHTING CONTROLS	MANUAL (ON/OFF) ONE ZONE ONLY FOR SPACE	MANUAL (ON/OFF) 4-10 ZONED SWITCHING	MANUAL DIMMING CONTROL	KEY SWITCH (KS)	SCENE CONTROL (SC) OR GRAPHIC TOUCHSCREEN	VACANCY MODE (MANUAL ON) (ASHRAE 90.1-2013 9.4.1.1b)	OCCUPANCY MODE (AUTO ON) (FULL)	OCCUPANCY MODE (AUTO ON) (PARTIAL)	AUTOMATIC PARTIAL OFF SENSOR TIME OUT (MINUTES) (ASHRAE 90.1-2013 9.4.1.1g)	AUTOMATIC PARTIAL OFF LUMINAIRE DIMMING LEVEL	FULL OFF SENSOR TIME OUT PERIOD (MINUTES) (ASHRAE 90.1-2013 9.4.1.1h)	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH SWITCHING (ON/OFF)	DIMMING		TARGET LIGHTING LEVELS (fc)	EXTERIOR LOCATION	PLUG LOAD CONTROL
ELECTRICAL ROOMS AND SERVICE ROOMS		X		X																			MANUAL CONTROLS ONLY.
OFFICE, SCADA LAB, SCADA SHOP		X				X			X		(3)			20 MINS									
STORAGE ROOMS		X		X					X	(2)				20 MINS									
WAREHOUSE GENERAL EXISTING LIGHTING																							EXISTING LIGHTING TO BE CONTROLLED WITH EXISTING LIGHTING CONTROL SYSTEM
NOTES: 1. LIGHTING CONTROL SEQUENCES OF OPERATION TO ASHRAE 90.1-2013. 2. SENSOR MAY BE CONFIGURED FOR FULL AUTO-ON AT OWNER'S PREFERENCE IN LIEU OF MANUAL ON. 3. SENSOR MAY BE CONFIGURED FOR PARTIAL AUTO-ON AT OWNER'S PREFERENCE IN LIEU OF MANUAL ON. 4. ELECTRICAL CONTRACTOR TO ALLOW FOR THE COST OF INVESTIGATING EXISTING LIGHTING CONTROL SYSTEM. CONNECT NEW WAREHOUSE AND STORAGE LIGHTING TO EXISTING CONTROLS.																							

2

LIGHTING CONTROLS MATRIX

SCALE: N.T.S.

SCHEDULE 26 06 50.19 - EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE									
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND PRODUCT SERIES	VOLTAGE	LAMPS	MOUNTING	SPEC SECTION	REMARKS	
	E26	COMPACT REMOTE UNIT WITH DOUBLE HEAD LAMPS: MR16 LED LAMP, 12 V, 6 W, 540 LUMEN, 25 DEGREE BEAM ANGLE, FACTORY WHITE FINISH.	- LUMACELL MQM-2-LD10-BK SERIES LAMP PART NUMBER 580.0106-L - EMERGILITE EF9M SERIES	12 V	2 x 6 W MR16 LED 540 LUMEN / LAMP	WALL OR CEILING SURFACE	26 52 13.13	RECOMMENDED MAXIMUM SPACING 15 m (50 FEET) WHEN MOUNTED BETWEEN 2.1 AND 2.7 m (7 FEET TO 9 FEET) AFF.	
	EMB-3	12 V EMERGENCY LIGHTING BATTERY UNIT C/W AUTO TEST, WITH DOUBLE HEADS, FACTORY WHITE FINISH, UNIVERSAL 120/347 VAC INPUT, AND SIX-ZONE VOLTAGE SENSING RELAY. TWO LAMPS: MR16 LED LAMP, 12 V, 6 W, 540 LUMEN, 25 DEGREE BEAM ANGLE.	-LUMACELL RG12S-[360]-2-LD10-AT-VSR SERIES -EMERGILITE ESL SERIES	120V-347V IN 12V OUT	2 x 6 W MR16 LED 540 LUMEN / LAMP	WALL	26 52 13.13		
	X1	PLASTIC PICTOGRAM EXIT SIGN, UNIVERSAL MOUNTING, FACTORY WHITE FINISH.	-LUMACELL LP SERIES -STANPRO RMPN SERIES	SEE NOTE 2	3W LED	CEILING OR WALL, SURFACE	26 52 13.16		

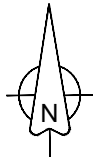

EMERGENCY LIGHTING FIXTURE & EXIT SIGN SCHEDULE NOTES:  
1. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIES MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.  
2. EXIT SIGNS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC AND 6 TO 48V DC INPUT. BATTERY UNITS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC INPUT.  
3. FOR EXIT SIGNS, REFER TO ARROWS AND NUMBER OF SHADED FACES AS DIRECTED ON LIGHTING LAYOUT. WHERE ARROWS INDICATE TWO DIRECTIONS, PROVIDE TWO PICTOGRAM STYLE EXIT SIGNS.  
4. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.  
5. MANUFACTURERS AS NOTED IN SECTION 26 52 13.13 AND SECTION 26 52 13.16. [OR]  
5. MANUFACTURERS: AIMILITE, BELUCE (FORMERLY BEGHELLI), EMERGILITE, LITHONIA, LUMACELL, STANPRO.  
6. REMOTE HEADS CERTIFIED TO CSA C22.2 No. 141.  
7. CBCB - "CENTRE BEAM CANDLE POWER."  
8. CONFIRM RECOMMENDED SPACING WITH EMERGENCY LIGHTING MANUFACTURER PRIOR TO START OF ROUGH-IN.  
9. WHERE AN EXIT SIGN IS TO BE INSTALLED IN AN AREA WITH NO CEILING, PROVIDE SUITABLE PENDANT MOUNT SUCH THAT THE SIGN IS VISIBLE AND NOT OBSCURED.

3

EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE

SCALE: N.T.S.

11	2024-10-28	ISSUED FOR ADDENDUM-E01	TS
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	TS
8	2024-07-18	ISSUED FOR PERMIT	TS
7	2024-06-11	ISSUED FOR 100% CD	AZ
6	2024-05-15	ISSUED FOR 50% CD	AZC
5	2024-04-01	RE-ISSUED FOR 100% DD	AZC
4	2024-02-27	RE-ISSUED FOR 50% DD	TS
3	2023-10-30	ISSUED FOR 100% DD	AZ
2	2023-10-11	ISSUED FOR COORDINATION	AZ
1	2023-08-01	ISSUED FOR 60% DD COSTING	AZ
No.	DATE	DESCRIPTION	CH D

REVISIONS	
THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.	PROJECT NORTH 
 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARCG.COM	
FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL: CM-22-149@QUASARCG.COM	
PROJECT  HWP WAREHOSE UPGRADE 145 HARRY WALKER PARKWAY NEWMARKET ON L3Y 7B3	
TITLE  LIGHTING SCHEDULES	
CHECKED  TS	PROJECT No. CM-22-149
SCALE  AS SHOWN	DRAWING No. E-306

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: DP-EV1					VOLTS: 120/208V					LOCATION: REFER TO PLANS			
MAIN BUS: 225A					PHASE: 3					FED FROM: EX 4000A MAIN SWBD			
MAIN BREAKER: 300A/3P					WIRE: 4					FEEDER ENTRY AT: TOP			
TYPE:					MOUNTING: SURFACE					FEEDER:			
INTERRUPTING CAPACITY: REFER TO SPECS					ENCLOSURE RATING:					REMARKS:			
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	2	
3		-	0	-	B			-	0	-		4	
5	EV CHARGER	-	-	0	50A 2P	C	50A 2P	-	-	0	EV CHARGER	6	
7		0	-	-	A			0	-	-		8	
9	EV CHARGER	-	0	-	50A 2P	B	50A 2P	-	0	-	EV CHARGER	10	
11		-	-	0	C			-	-	0		12	
13	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	14	
15		-	0	-	B			-	0	-		16	
17	EV CHARGER	-	-	0	50A 2P	C	50A 2P	-	-	0	EV CHARGER	18	
19		0	-	-	A			0	-	-		20	
21	EV CHARGER	-	0	-	50A 2P	B		-	0	-		22	
23		-	-	0	C			-	-	0		24	
25		0	-	-		A		0	-	-		26	
27		-	0	-		B		-	0	-		28	
29		-	-	0		C		-	-	0		30	
31		0	-	-		A		0	-	-		32	
33		-	0	-		B		-	0	-		34	
35		-	-	0		C		-	-	0		36	
37		0	-	-		A		0	-	-		38	
39		-	0	-		B		-	0	-		40	
41		-	-	0		C		-	-	0		42	
TOTAL ØA: ____W, TOTAL ØB: ____W, TOTAL ØC: ____W													

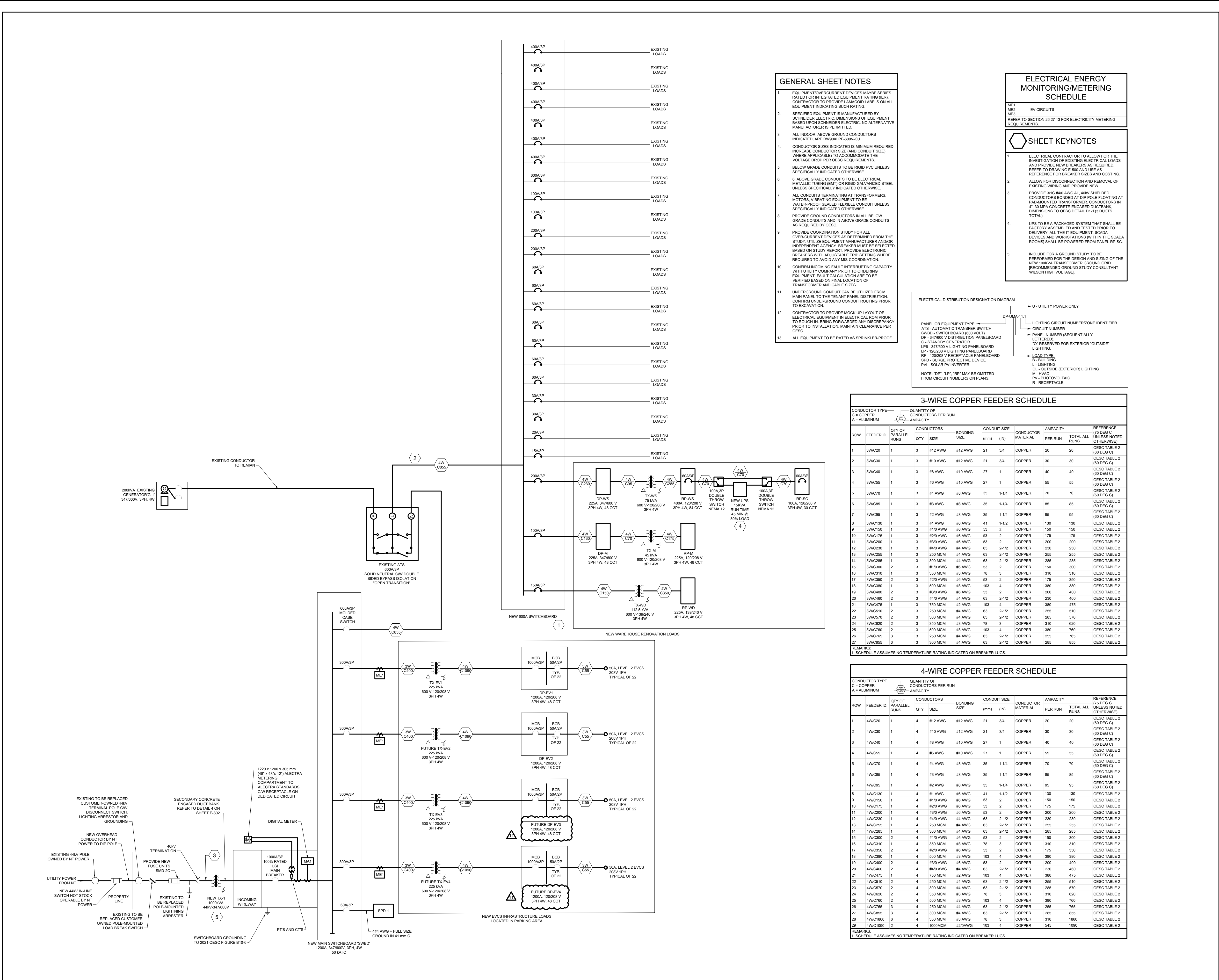
26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: DP-M				VOLTS: 347/600V				LOCATION: REFER TO PLANS					
MAIN BUS: 225A				PHASE: 3				FED FROM: EX 4000A MAIN SWBD					
MAIN BREAKER: 150A/3P				WIRE: 4				FEEDER ENTRY AT: TOP					
TYPE:				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:NEMA 2				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	EF-5	1000	-	-	15A 3P	A	15A 3P	500	-	-	EF-9	2	
3		-	1000	-		B		-	500	-		4	
5		-	-	1000		C		-	-	500		6	
7	MAU-1	900	-	-	15A 3P	A	15A 3P	900	-	-	MAU-2	8	
9		-	900	-		B		-	900	-		10	
11		-	-	900		C		-	-	900		12	
13	MAU-3	1300	-	-	15A 3P	A	15A 3P	900	-	-	MAU-4	14	
15		-	1300	-		B		-	900	-		16	
17		-	-	1300		C		-	-	900		18	
19	MAU-5	1300	-	-	15A 3P	A	15A 3P	900	-	-	MAU-6	20	
21		-	1300	-		B		-	900	-		22	
23		-	-	1300		C		-	-	900		24	
25	DOCK LEVELER	500	-	-	20A 3P	A		500	-	-	REACH TRUCK CHARGER	26	
27		-	500	-		B		-	500	-		28	
29		-	-	500		C		-	-	500		30	
31	CA-1	0	-	-	30A 3P	A		0	-	-		32	
33		-	0	-		B		-	0	-		34	
35		-	-	0		C		-	-	0		36	
37		0	-	-		A		0	-	-		38	
39		-	0	-		B		-	0	-		40	
41		-	-	0		C		-	-	0		42	
TOTAL ØA: 8700W , TOTAL ØB: 8700W , TOTAL ØC: 8700W													

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: DP-EV2				VOLTS: 120/208V				LOCATION: REFER TO PLANS					
MAIN BUS: 225A				PHASE: 3				FED FROM: EX 4000A MAIN SWBD					
MAIN BREAKER: 300A/3P				WIRE: 4				FEEDER ENTRY AT: TOP					
TYPE:				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	EV CHARGER	0	-	-	50A 2P	A	50A 2P	0	-	-	EV CHARGER	2	
3		-	0	-	B			-	0	-		4	
5	EV CHARGER	-	-	0	50A 2P	C	50A 2P	-	-	0	EV CHARGER	6	
7		0	-	-	A			0	-	-		8	
9	EV CHARGER	-	0	-	50A 2P	B		-	0	-		10	
11		-	-	0	C			-	-	0		12	
13		0	-	-	A			0	-	-		14	
15		-	0	-	B			-	0	-		16	
17		-	-	0	C			-	-	0		18	
19		0	-	-	A			0	-	-		20	
21		-	0	-	B			-	0	-		22	
23		-	-	0	C			-	-	0		24	
25		0	-	-	A			0	-	-		26	
27		-	0	-	B			-	0	-		28	
29		-	-	0	C			-	-	0		30	
31		0	-	-	A			0	-	-		32	
33		-	0	-	B			-	0	-		34	
35		-	-	0	C			-	-	0		36	
37		0	-	-	A			0	-	-		38	
39		-	0	-	B			-	0	-		40	
41		-	-	0	C			-	-	0		42	
TOTAL ØA: _____ W, TOTAL ØB: _____ W, TOTAL ØC: _____ W													

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: RP-SC				VOLTS: 120/208V				LOCATION: REFER TO PLANS					
MAIN BUS: 100A				PHASE: 3				FED FROM: RP-WS					
MAIN BREAKER: 60A/3P				WIRE: 4				FEEDER ENTRY AT: TOP					
TYPE: NEMA 2				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING:				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1		0	-	-	A	20A	0	-	-	SCADA RECEPTACLES	2		
3		-	0	-	B	20A	-	0	-	SCADA RECEPTACLES	4		
5		-	-	0	C	20A	-	-	0	SCADA RECEPTACLES	6		
7		0	-	-	A	20A	0	-	-	SCADA RECEPTACLES	8		
9		-	0	-	B	20A	-	0	-	SCADA RECEPTACLES	10		
11		-	-	0	C	20A	-	-	0	SCADA RECEPTACLES	12		
13		0	-	-	A	20A	0	-	-	SCADA RECEPTACLES	14		
15		-	0	-	B	20A	-	0	-	SCADA RECEPTACLES	16		
17		-	-	0	C	20A	-	-	0	SCADA RECEPTACLES	18		
19		0	-	-	A	20A	0	-	-	SCADA RECEPTACLES	20		
21		-	0	-	B		-	0	-		22		
23		-	-	0	C		-	-	0		24		
25		0	-	-	A		0	-	-		26		
27		-	0	-	B		-	0	-		28		
29		-	-	0	C		-	-	0		30		
TOTAL ØA: _____W, TOTAL ØB: _____W, TOTAL ØC: _____W													

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE													
PANEL ID: RP-M				VOLTS: 120/208V				LOCATION: REFER TO PLANS					
MAIN BUS: 400A				PHASE: 3				FED FROM: DP-MTX-M					
MAIN BREAKER: 250A/3P				WIRE: 4				FEEDER ENTRY AT: BOTTOM					
TYPE:				MOUNTING: SURFACE				FEEDER:					
INTERRUPTING CAPACITY: REFER TO SPECS				ENCLOSURE RATING: NEMA 2				REMARKS:					
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	BBH-1	2000	-	-	20A	A	15A 2P	1000	-	-	FFWH-1	2	
3	BBH-2	-	2000	-	20A	B	2P	-	1000	-		4	
5	FFWH-3	-	-	1500	20A 2P	C	15A 2P	-	-	1000	FFWH-2	6	
7		1500	-	-			1000	-	-		8		
9	EF-1/EF-2/EF-3	-	638	-	20A	B	15A	-	746	-	EF-4	10	
11	EF-6	-	-	373	15A	C	15A	-	-	186	EF-7	12	
13	EF-8	373	-	-	15A	A	15A	100	-	-	EF-10	14	
15	SAC-1	-	1248	-	15A 2P	B	15A 2P	-	1248	-	SAC-2	16	
17		-	-	1248		C		-	-	1248		18	
19	SAC-3	2496	-	-	30A 2P	A	15A 2P	1248	-	-	SAC-4	20	
21		-	2496	-		B	2P	-	1248	-		22	
23	SCU-1	-	-	3744	45A 2P	C	45A 2P	-	-	3744	SCU-2	24	
25		3744	-	-		A		3744	-	-		26	
27	DBF-1	-	0	-	15A	B	40A 2P	-	2629	-	DHW-1	28	
29	MD-1	-	-	100	15A	C	2P	-	-	2629		30	
31	MD-2	100	-	-	15A	A	15A	100	-	-	MD-6	32	
33	MD-3	-	100	-	15A	B	15A	-	100	-	MD-7	34	
35	1R: ROOF	-	-	180	20A	C	20A	-	-	180	1R: ROOF	36	
37	1R: ROOF	180	-	-	20A	A	20A	180	-	-	1R: ROOF	38	
39	1R: ROOF	-	180	-	20A	B	20A	-	180	-	1R: ROOF	40	
41	1R: ROOF	-	-	180	20A	C	20A	-	-	180	1R: ROOF	42	
43	CF-1	0	-	-	15A	B	15A	180	-	-	1R-1R-2	44	
45		-	0	-		A		-	0	-		46	
47	CF-2	-	-	0		C	15A	-	-	0	CF-4	48	
49		0	-	-		A		0	-	-		50	
51	CF-3	-	0	-	15A	B	-	-	0	-	CF-5	52	
53		-	-	0		C	15A	-	-	0		54	
55	CF-4	0	-	-		A	0	-	-	-	CF-6	56	
57		-	0	-	15A	B	-	-	0	-		58	
59	CF-5	-	-	0		C	15A	-	-	0	CF-7	60	
61		CF-1 CONTROLS	0	-	-	15A	A	0	-	-			62
63	CF-2 CONTROLS	-	0	-	15A	B	15A	-	0	-	CF-4 CONTROLS	64	
65	CF-3 CONTROLS	-	-	0	15A	C	15A	-	-	0	CF-5 CONTROLS	66	
67	SPARE	0	-	-	15A	A	15A	0	-	-	CF-6 CONTROLS	68	
69	SPARE	-	0	-	15A	B	20A	-	0	-	SPARE	70	
71	SPARE	-	-	0	15A	C	20A	-	-	0	SPARE	72	
TOTAL ØA: 19685W , TOTAL ØB: 13813W , TOTAL ØC: 16412W													
NOTES													
* - PROVIDE LOCKABLE BREAKER													
** - PROVIDE GFI TYPE BREAKER													
*** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS													
L - RECEPTACLE													
R - LIGHTING													
CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.													





<b>Project Name:</b>	Harry Walker Parkway Warehouse Upgrade	<b>Date Issued:</b>	October 28, 2024
<b>Quasar Project #:</b>	CM-22-149		
<b>Client Project #:</b>	RFTC-709-23-22021		

**Distribution**

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**Addendum #:**
**Revision #:**

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

**Changes to Specifications:**

1. N/A

**Changes to Drawings:**
**1. Drawing M201. – Plumbing New Layout**

- a. Additional notation added to clarify new location of the drinking fountain that is being relocated.
  - i. Sheet Keynote 5: Relocated drinking fountain

**2. Drawing M301. - HVAC New Layout**

- a. Additional demo notes and drawing added to show the removal of the existing ceiling fans and the existing split AC system in the office space.
  - i. General Demo Note 1: All existing ceiling fans to be removed along with all associated control wiring.
- b. Ceiling fans added to warehouse space.

**3. Drawing M302 – HVAC New Layout (Cont.)**

- a. Ceiling fans added to warehouse space.

**4. Drawing M400 – Fire Protection Layout Existing – Ground Level**

- a. Relocated fire hose cabinet and fire extinguisher.
- b. Additional notation added to clarify the relocation of the firehose cabinet
  - i. Sheet Keynote 5: Relocated Fire Hose Closet

**5. Drawing M504. – Mechanical Details**

- a. Split AC schematic added.
  - i. Detail 4: Split AC Schematic

**6. Drawing M600. – Mechanical Schedules**

- a. Ceiling Fan Schedule Added.
- b. Air compressor schedule updated to new selection per client request.
- c. Split AC schedule updated to clarify selection and connections.

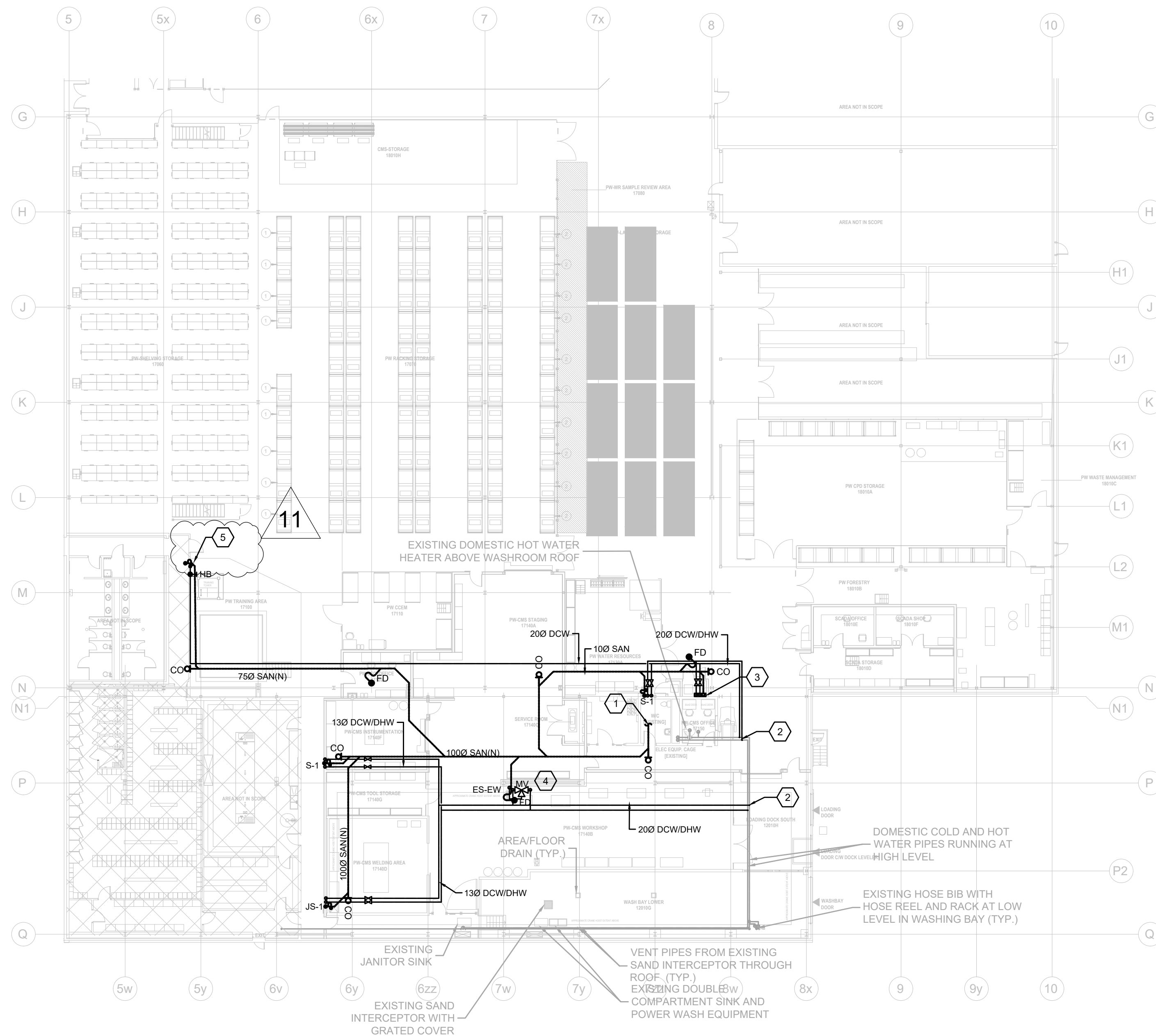




Quasar Consulting Group

Bryan Humber, EIT

Mechanical Designer



### GENERAL SHEET NOTES

1. ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 1000 UNLESS INDICATED OTHERWISE.
2. ALL DCW AND DHW PIPES SHALL BE MINIMUM Ø1/2" UNLESS NOTED OTHERWISE.
3. ALL FLOOR / HUB DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP SEAL PRIMERS. ALL FLOOR DRAINS TO BE INSTALLED AS PER O.B.C 7.1.4.2. ALL TRAP SEAL PRIMERS TO BE INSTALLED IN FLOOR AND HUB DRAINS AS PER O.B.C 7.4.5.3. PROVIDE COMPLETE VENTING AND PRIMER SYSTEM AS PER O.B.C. REQUIREMENT.
5. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND SLOPE OF EXISTING BELOW FLOOR SLAB SERVICES PRIOR TO COMMENCING ANY WORK.
6. CONTRACTOR TO ALLOW FOR X-RAY AND SCAN THE FLOOR PRIOR TO OPENING/CUTTING TO VERIFY THE EXACT LOCATION OF EXISTING UNDERGROUND PIPE. UNDER SLAB SAN SHOWN ON DRAWING IS FOR INFORMATION ONLY AND CONTRACTOR SHOULD VERIFY THE EXACT LOCATION AND INVERT LEVEL. CONTRACTOR TO COORDINATE WITH LAND LORD FOR OPENING/CUTTING THE EXISTING FLOOR AND INSTALLATION OF NEW UNDERGROUND SANITARY PIPES.
7. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.
8. ALL PLUMBING WORK TO COMPLY WITH O.B.C PART 7 AND OTHER PARTS AS APPLICABLE.

### SHEET KEYNOTES

1. 1000 NEW SAN CONNECT TO EXISTING UNDER SLAB SANITARY DRAIN PIPE. CONTRACTOR TO SCAN / XRAY THE FLOOR TO VERIFY THE EXACT LOCATION AND INVERT LEVEL OF EXISTING. CONTRACTOR TO COORDINATE WITH LAND LORD FOR OPENING/CUTTING AND PATCHING THE EXISTING FLOOR AND INSTALLATION OF NEW UNDERGROUND SANITARY PIPES.
2. 200 DCW/DHW CONNECT TO EXISTING.
3. LAUNDRY WASHER BOX. PROVIDE 500 SAN DRAINAGE AND 130 DCW/DHW C/W SHUT OFF VALVE.
4. PROVIDE EMERGENCY COMBINATION SHOWER AND EYE-WASH (ES-EW) C/W MIXING VALVE. COORDINATE CLIENT AND ARCHITECT FOR EXACT LOCATION. CONTRACTOR TO VERIFY WATER PRESSURE PRIOR TO ROUGH-INS AND INFORM TO DESIGNER AND ENGINEER. MINIMUM 30 PSI WATER PRESSURE REQUIRED TO INSTALL EYE WASH/EMERGENCY SHOWER STATION. VERIFY THE WATER FLOW TO THE EYE WASH WHICH IS CAPABLE OF RUNNING FOR 15 MINUTES OF CONSTANT FLOW AT 85°F. LOCATE MIXING VALVE AT WELL.
5. RELOCATED DRINKING FOUNTAIN.

11	2024-10-28	ISSUED FOR ADDENDUM M01	
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	
No.	DATE	DESCRIPTION	CH'D

#### REVISIONS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.	PROJECT NORTH



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PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**PLUMBING NEW LAYOUT**

CHECKED	ZH	PROJECT No.	CM-22-149
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SCALE	AS SHOWN	DRAWING No.	M201
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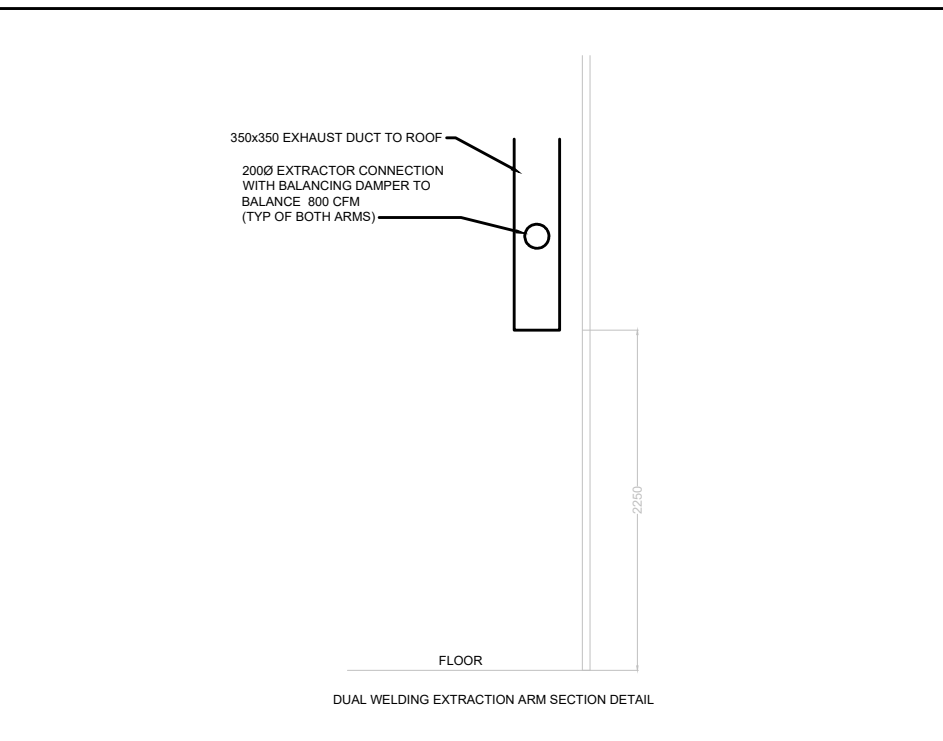


GENERAL SHEET NOTES

- ALL EXISTING MECHANICAL SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- ALL DUCTWORK IN WASHBAY TO BE ALUMINIUM CONSTRUCTION OR STAINLESS STEEL
- PROVIDE NEW MECHANICAL SERVICES AS SHOWN IN THE DRAWING.
- ALL NEW HVAC WORK TO COMPLY WITH O.B.C PART 6 AND OTHER PARTS AS APPLICABLE.

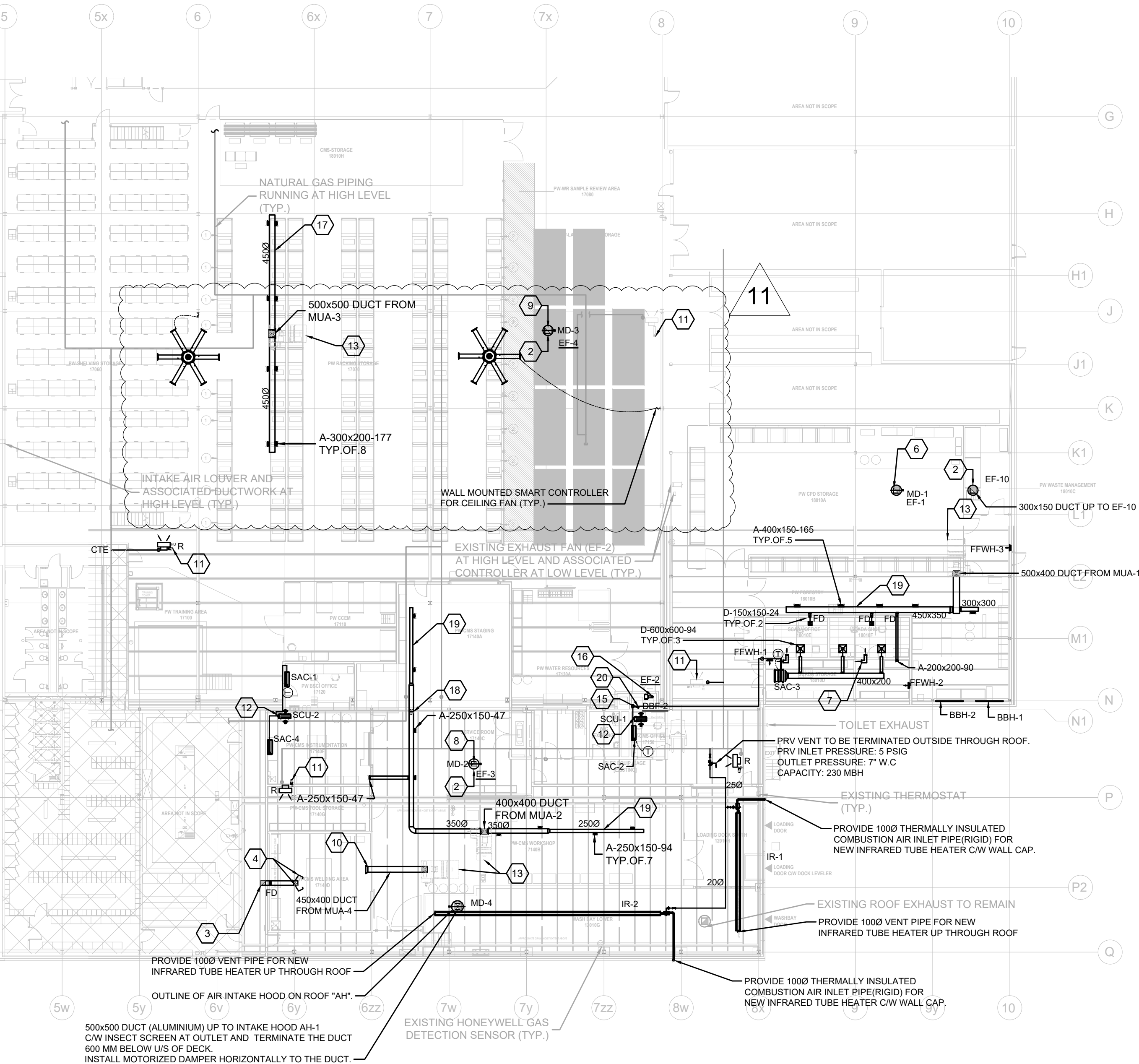
SHEET KEYNOTES

- WELDING EXHAUST HOOD. SEE DETAIL THIS DRAWING
- HIDDEN LINE INDICATE EXHAUST FAN ON ROOF. STRAIGHT DUCT FROM THE LAST 90 TO INLET OF THE FAN TO BE 100MM (3 TIMES DIA OF THE FAN).
- 350x350 EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN EF-5.
- NEDERMAN EXTRACTION DUAL ARM 10560332 NEX HD 4M (14 FT) LENGTH, WITH 2 METER EXTENSION 200MM(8"), C/W WALL BRACKET FOR NEX SERIES, AND CONNECT TO EXHAUST DUCT WITH BALANCING DAMPER. (TYP.)
- GAS DETECTION CONTROL PANEL TO OPERATE THE WELDED HOOD EXHAUST FAN AND MAKEUP AIR UNIT.
- 450x450 EXHAUST DUCT UP TO EF-2 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 200x200 TRANSFER AIR DUCT C/W ACOUSTIC LINING AND GRILLES AT BOTH END EH PRICE MODEL 80 (TYP.).
- 400x400 EXHAUST DUCT UP TO EF-3 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 500x500 EXHAUST DUCT UP TO EF-4 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- OPEN ENDED DUCT(OED) WITH INSECT SCREEN
- NEW LOCATION OF UNIT HEATER. PROVIDE A NEW 150MM VENT UP THROUGH ROOF. CONNECT TO THE EXISTING GAS LINE. CONTRACTOR TO ALLOW ADDITIONAL PIPE FITTINGS, SUPPORTS FOR RELOCATION.
- PROVIDE SPLIT UNIT A/C AS SHOWN. REFER TO SCHEDULES FOR DETAILS AND SIZES. CONDENSING UNIT LOCATED ON LOWER ROOF (INSIDE THE WAREHOUSE).
- HIDDEN LINE INDICATE MAKEUP AIR UNIT ON ROOF.
- NATURAL GAS PIPE SHOWN IS RUNNING ON ROOF
- 100Ø DRYER VENT UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP.
- 150Ø EXHAUST UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP
- ALL DUCTWORK TO BE MOUNTED AT A HIGH LEVEL SUCH THAT THERE IS A MINIMUM 8FT OF CLEARANCE ABOVE TOP OF RACKING FRAME.
- DUCT TO BE RAISED AND MAINTAIN THE DISTANCE BETWEEN CEILING AND DUCT ACROSS THE ROOF HEIGHT CHANGE.
- DUCT TO BE MOUNTED TIGHT TO UNDERSIDE OF THE ABOVE ROOF DECK
- 100Ø RIGID METAL DOWN AND CONNECT TO DRYER. VERTICALLY INSTALL THE BOOSTER FAN AND LINT TRAP FOR DRYER DBF-1. REFER TO DETAIL ON DRAWING M504.



GENERAL DEMO NOTES

- ALL EXISTING CEILING FANS TO BE REMOVED ALONG WITH ALL ASSOCIATED CONTROL WIRING.



EXISTING SPLIT AIRCONDITIONING UNITS AND ASSOCIATED CONDENSERS TO BE DEMOLISHED

2 DEMO FLOOR PLAN - PALLET RACKING  
SCALE: 1:100

EXISTING ERV TO BE REMOVED. WASHROOM EXHAUST TO REMAIN.

3 HVAC DEMOLITION CMS OFFICE  
SCALE: 1:100

1 HVAC NEW LAYOUT - GROUND FLOOR  
SCALE: 1:250

11	2024-10-28	ISSUED FOR ADDENDUM M01	
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9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
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No.	DATE	DESCRIPTION	CH'D

REVISIONS

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WEB: WWW.QUASARCG.COM

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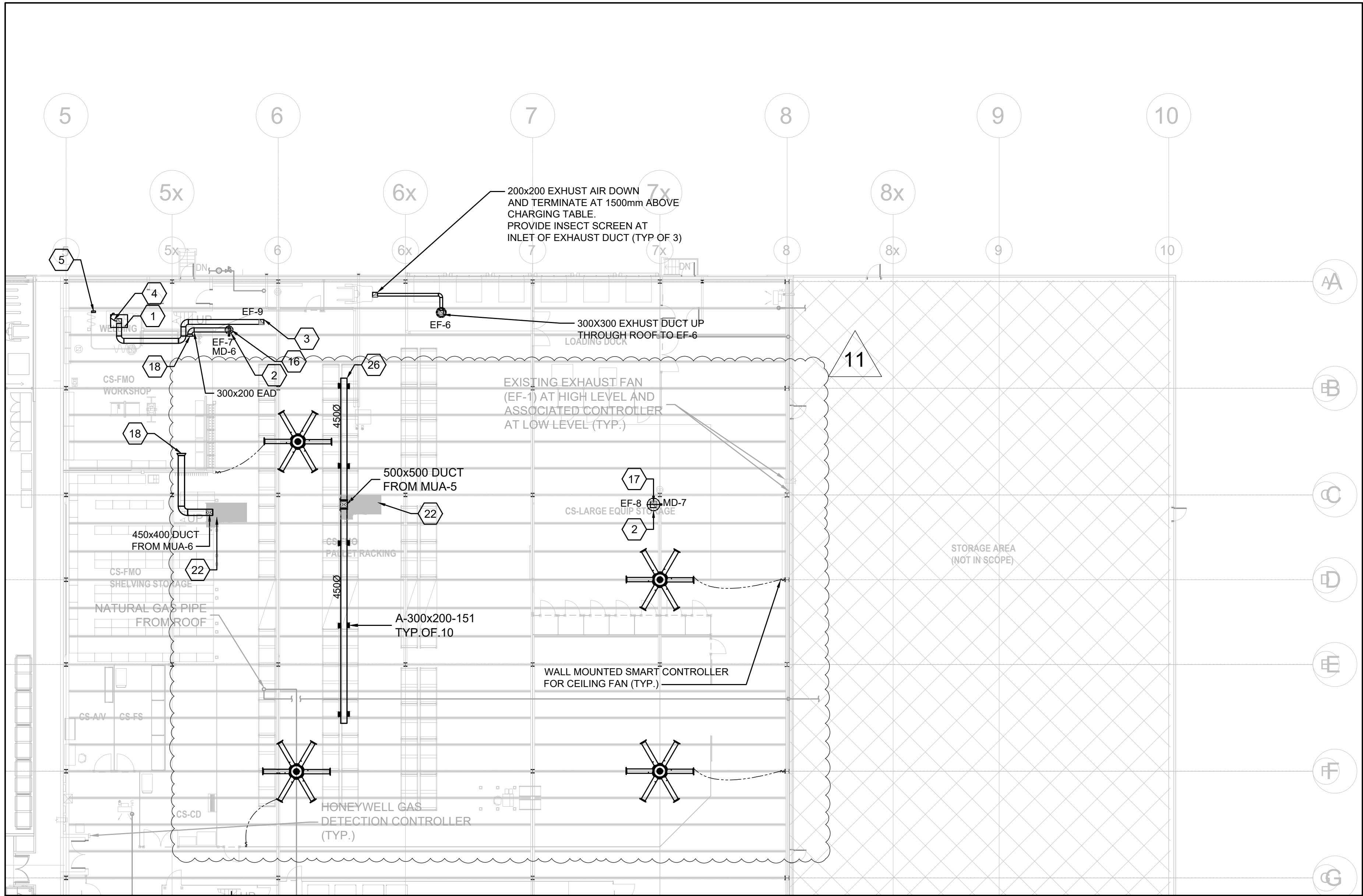
PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
HVAC NEW LAYOUT

CHECKED ZH PROJECT No. CM-22-149

SCALE AS SHOWN DRAWING No. M301



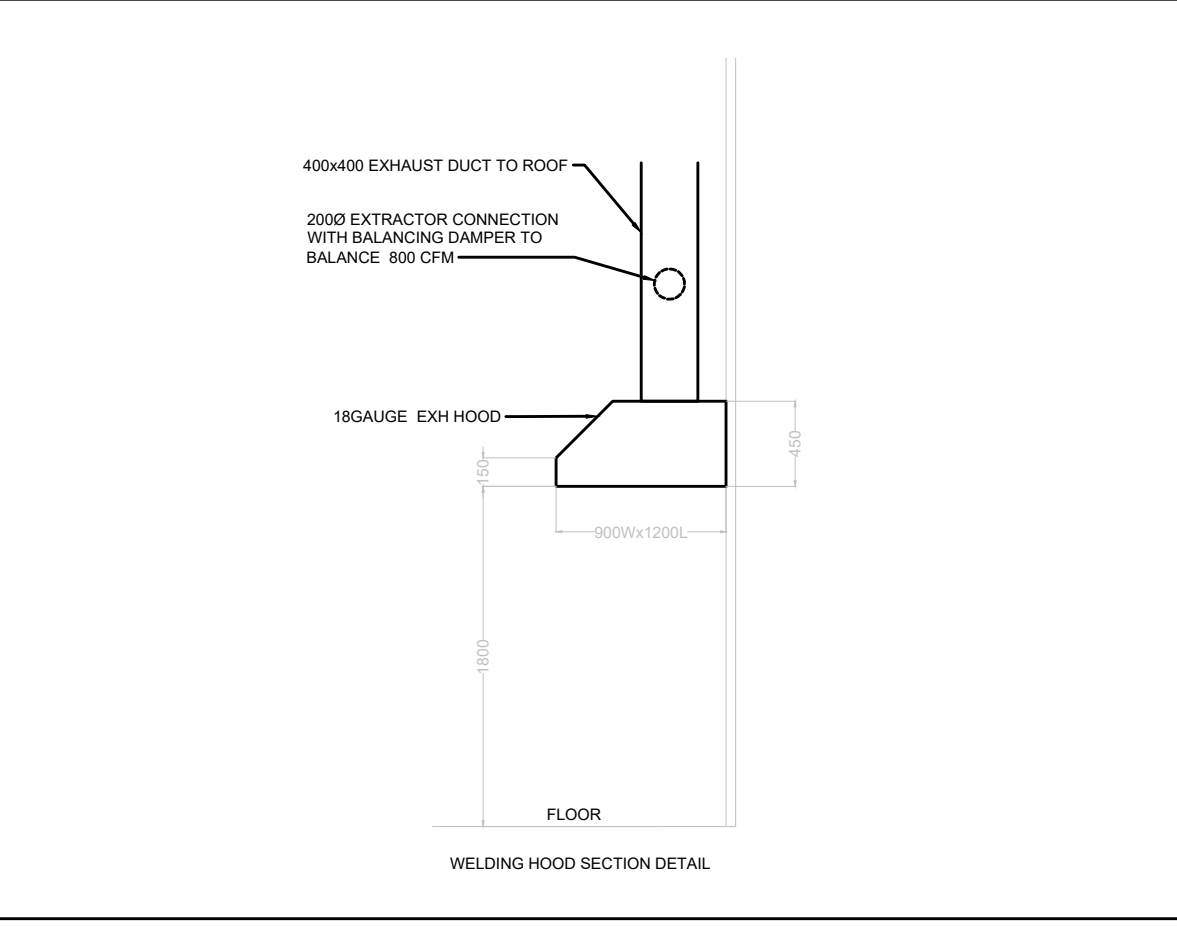


## GENERAL SHEET NOTES

- ALL EXISTING MECHANICAL SERVICES TO REMAIN UNLESS NOTED OTHERWISE.
- ALL DUCTWORK IN WASHBAY TO BE ALUMINIUM CONSTRUCTION OR STAINLESS STEEL
- PROVIDE NEW MECHANICAL SERVICES AS SHOWN IN THE DRAWING.
- ALL HVAC WORK TO COMPLY WITH OBC PART 6 AND OTHER PARTS AS APPLICABLE.

## SHEET KEYNOTES

- WELDING EXHAUST HOOD. SEE DETAIL THIS DRAWING
- HIDDEN LINE INDICATE EXHAUST FAN ON ROOF. STRAIGHT DUCT FROM THE LAST 90 TO INLET OF THE FAN TO BE 1000MM MINIMUM (3 TIMES DIA OF THE FAN).
- 350x350 EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN.
- NEDERMAN EXTRACTION ARM 10560332 NEX HD 4M (14 FT) LENGTH, 200MM(8"Ø), C/W WALL BRACKET FOR NEX SERIES AND CONNECT TO EXHAUST DUCT WITH BALANCING DAMPER.
- GAS DETECTION CONTROL PANEL TO OPERATE THE WELDED HOOD EXHAUST FAN AND MAKEUP AIR UNIT
- 450x450 EXHAUST DUCT UP TO EF-2 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 700x700 DUCT UP TO INTAKE HOOD AH-1 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- GAS(CO/NOX) DETECTION SYSTEM TO BE INSTALLED ON WALL AT 1500 ABOVE FLOOR. REFER TO SEQUENCE OF OPERATION FOR DETAILS
- REMOTE NOX SENSOR, INSTAL300MM U/S OF DECK.
- PROVIDE 100Ø THERMALLY INSULATED COMBUSTION AIR INLET PIPE(RIGID) FOR NEW INFRARED TUBE HEATER C/W WALL CAP.
- PROVIDE 100Ø VENT PIPE FOR NEW INFRARED TUBE HEATER UP THROUGH ROOF
- 250x250 EXHAUST DUCT UP THROUGH ROOF TO EF-3 C/W INSECT SCREEN AT INLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.
- 200x200 TRANSFER AIR DUCT C/W ACOUSTIC LINING AND GRILLES AT BOTH END EH PRICE MODEL 80 (TYP.).
- 400x400 EXHAUST DUCT UP TO EF-5 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 500x500 EXHAUST DUCT UP TO EF-6 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 300x250 EXHAUST DUCT UP TO EF-7 ON ROOF C/W INSECT SCREEN AT INLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- 450x450 EXHAUST DUCT UP TO EF-8 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- OPEN ENDED DUCT(OED) WITH INSECT SCREEN
- 350x350 ALUMINIUM EXHAUST DUCT UP TO EF-9 ON ROOF C/W INSECT SCREEN AT OUTLET AND TERMINATE THE DUCT 600 MM BELOW U/S OF DECK.. INSTALL MOTORIZED DAMPER HORIZONTALLY TO THE DUCT.
- NEW LOCATION OF UNIT HEATER. PROVIDE A NEW 150MM VENT UP THROUGH ROOF. CONNECT TO THE EXISTING GAS LINE. CONTRACTOR TO ALLOW ADDITIONAL PIPE FITTINGS, SUPPORTS FOR RELOCATION.
- PROVIDE SPLIT UNIT A/C AS SHOWN. REFER TO SCHEDULES FOR DETAILS AND SIZES. TYPICAL OF 4.
- HIDDEN LINE INDICATE MAKEUP AIR UNIT ON ROOF.
- NATURAL GAS PIPE SHOWN IS RUNNING ON ROOF
- 100Ø DRYER VENT UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP.
- 150Ø EXHAUST UP THROUGH ROOF. TERMINATE AT 900MM ABOVE ROOF C/W RAIN CAP
- DUCTWORK TO BE INSTALLED AT A HIGH LEVEL WITH A MINIMUM OF 1500 MM OF CLEARANCE ABOVE RACKING.



11	2024-10-28	ISSUED FOR ADDENDUM M01	
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9	2024-08-29	ISSUED FOR TENDER	
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REVISIONS			PROJECT NORTH
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PROJECT  
**HWP WAREHOSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
HVAC NEW LAYOUT (CONT.)

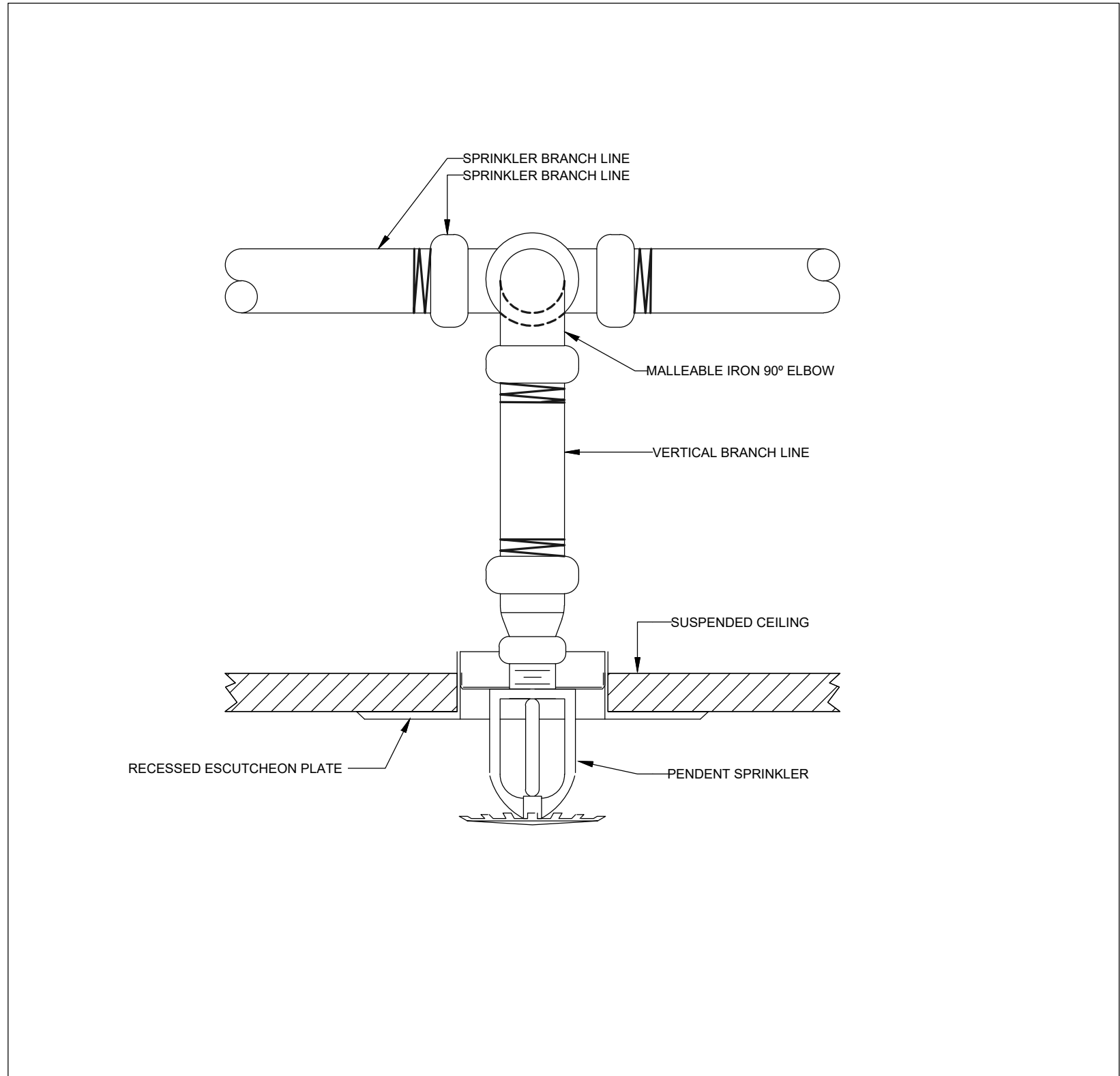
CHECKED	ZH	PROJECT No.	CM-22-149
SCALE	AS SHOWN	DRAWING No.	M302



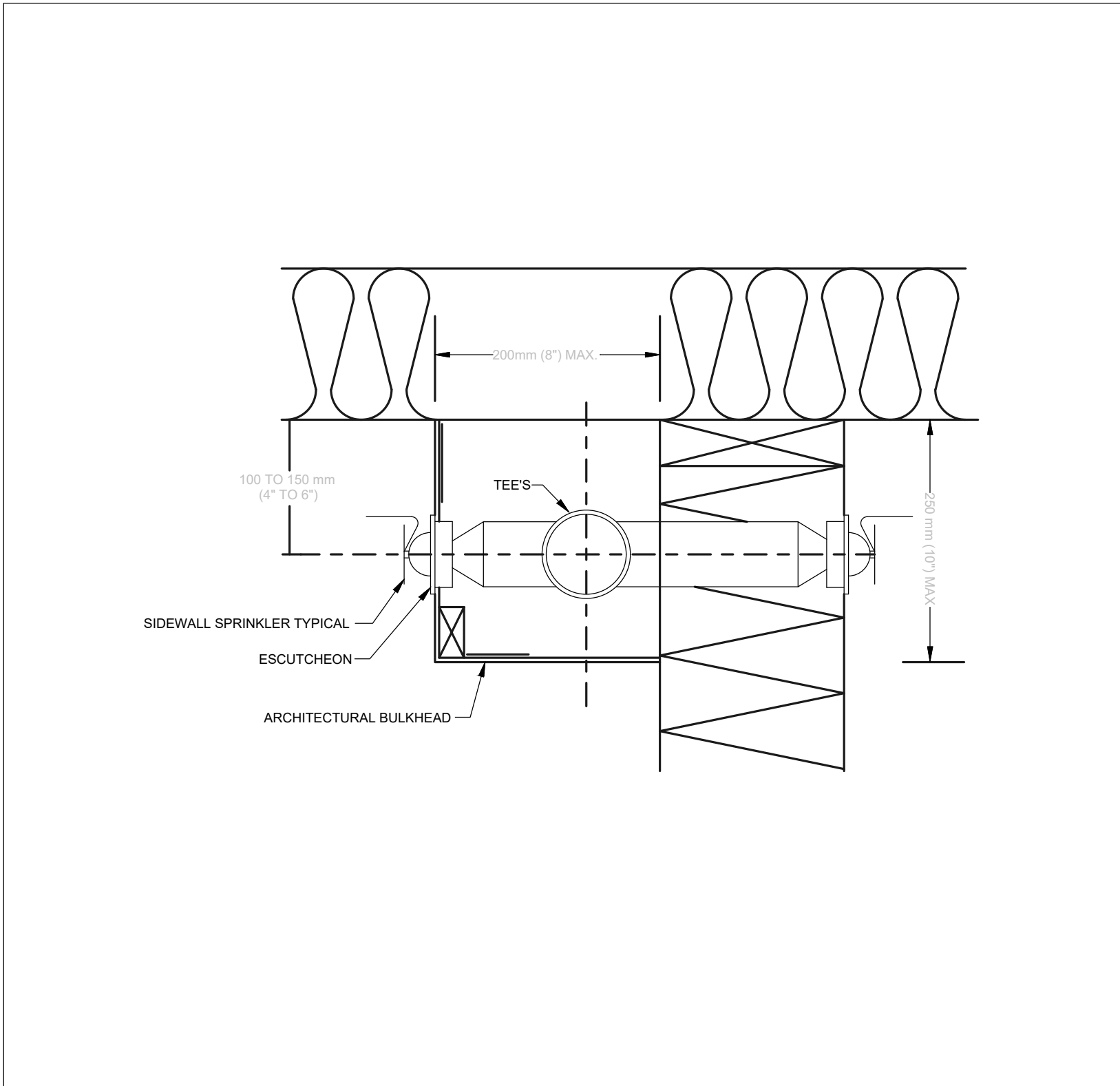


11

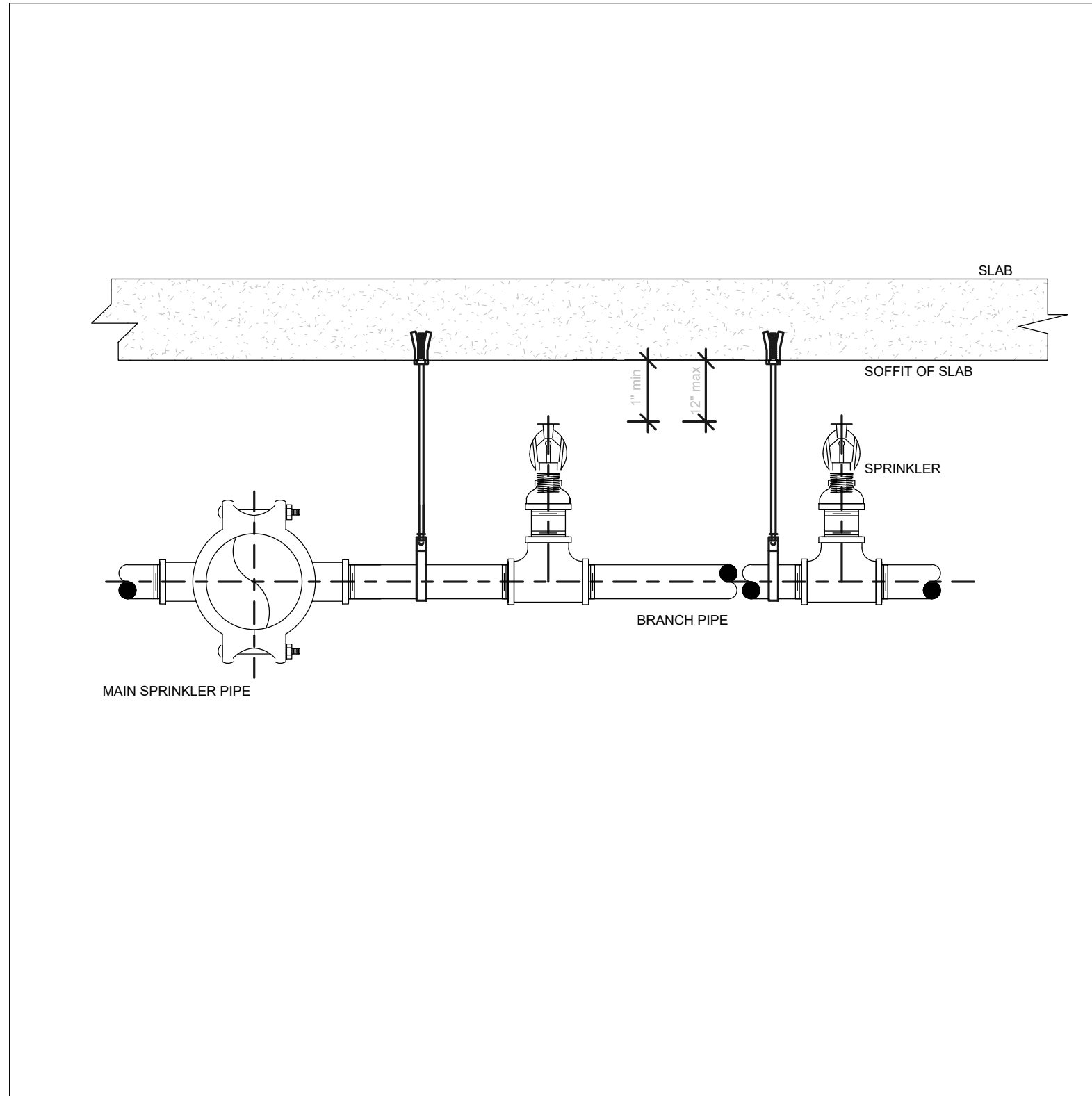




1 RECESSED PENDENT SPRINKLER INSTALLAION  
NOT TO SCALE



2 SPRINKLER SIDEWALL BULKHEAD  
NOT TO SCALE



3 SPRINKLER HEAD (UPRIGHT)  
NOT TO SCALE

Harry Walker Parkway Warehouse

CITY MULTI

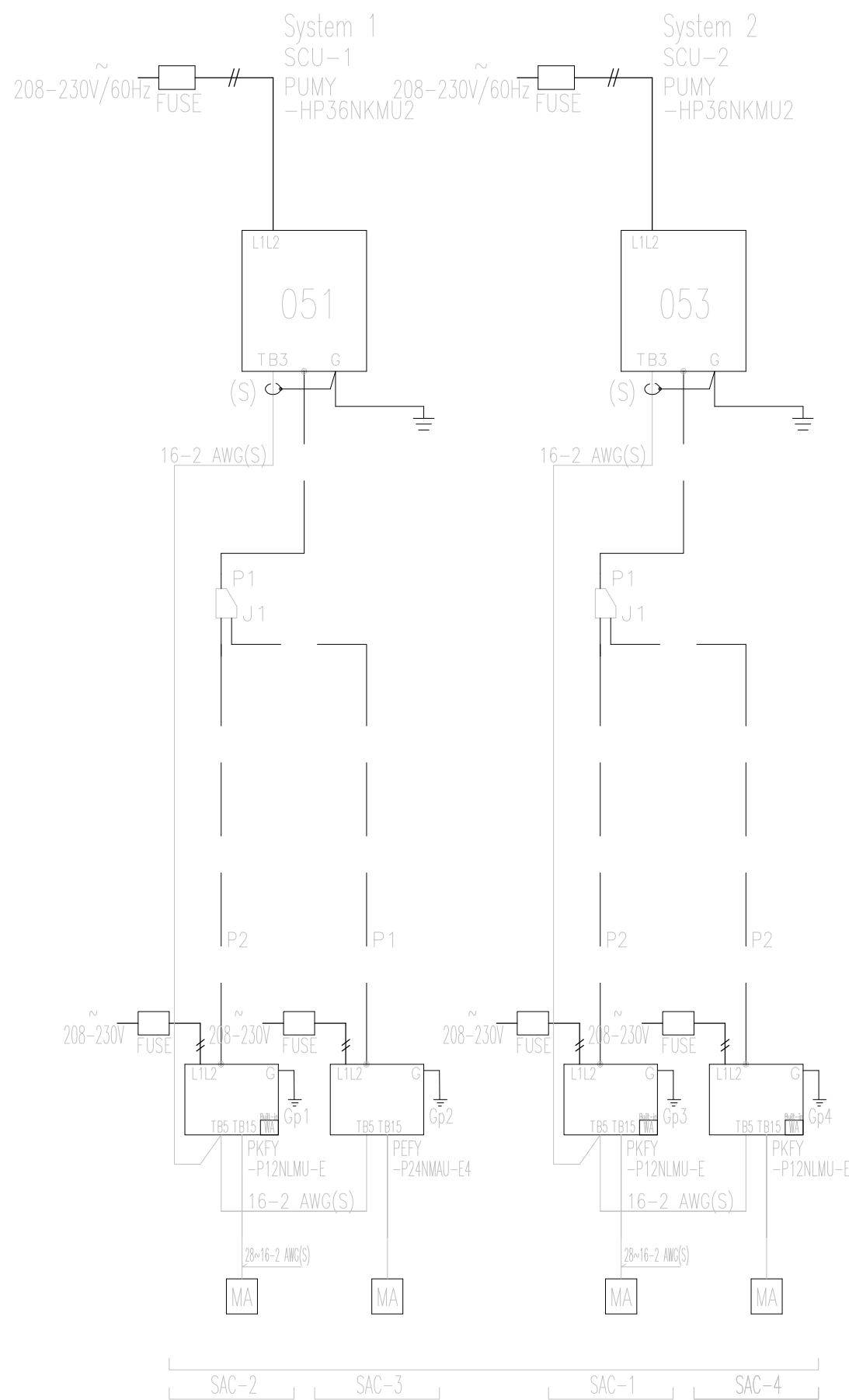
SYSTEM SCHEMATIC DWG.

DIAGRAM SYMBOL LEGEND	CONT.No	PAGE 1 / 1
--- POWER WIRE		
--- CONTROL WIRE		
--- REF. PIPE / WATER PIPE		
--- POWER SIGNAL WIRE		

Re	Symbol of replace	Definition
01	Standard	
02	Usable	(Unit performance will be affected.)
03	Usable	(Refrigerant charge will be limited.)
04	Usable	(Piping length will be limited.)
05	Piping length and vertical separation will be limited.	

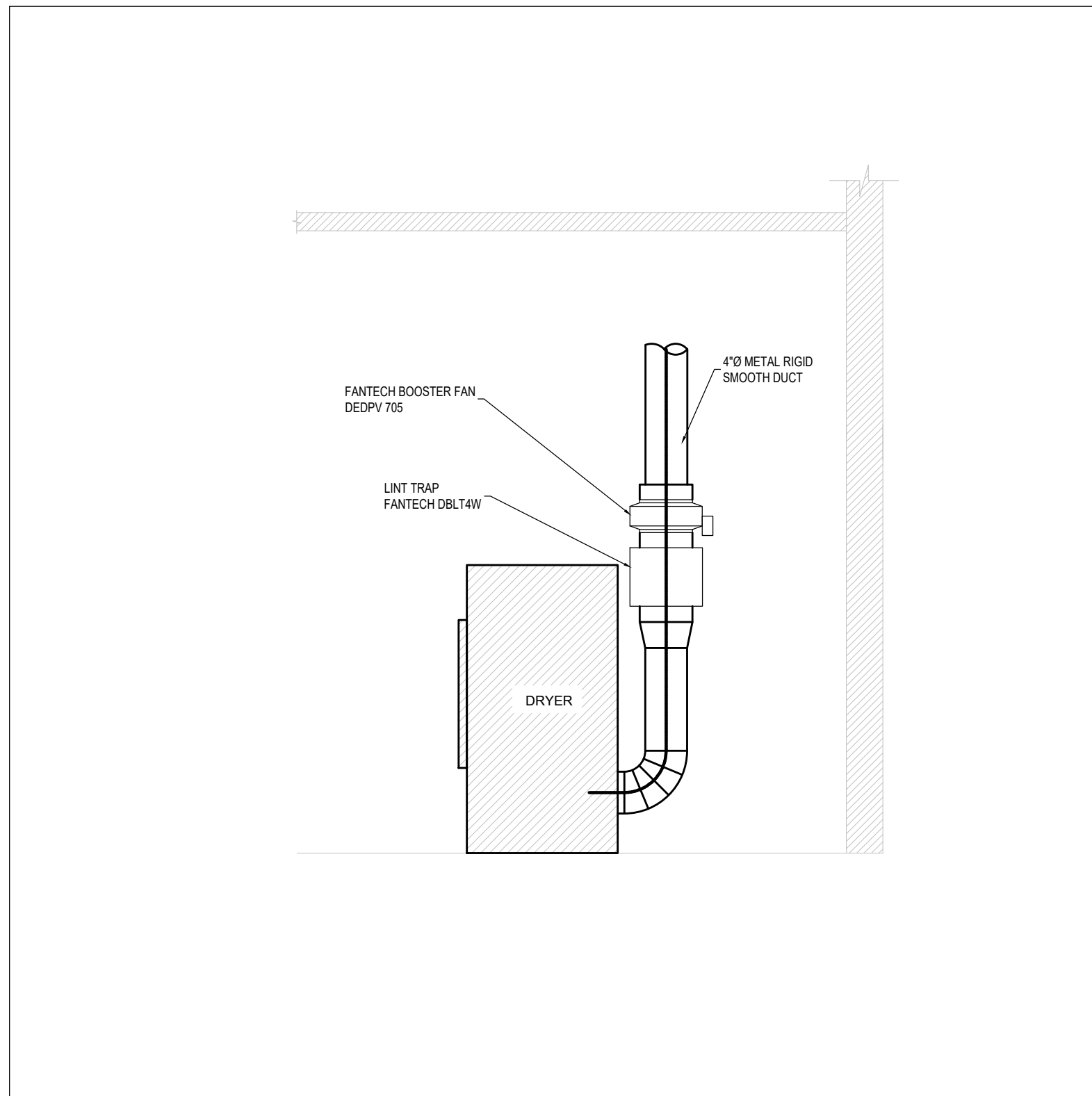
PIPING LIST
0501 BRANCH PIPE MODEL NAME
CMY-Y62-G-E
0502 LIQUID PIPE/GAS PIPE SIZE
3/8 / 5/8

Address	Additional Refrigerant
051	8.0 lb
053	5.4 lb



4 SPLIT AC SCHEMATIC  
SCALE:

11



5 DRYER BOOSTER FAN DETAIL  
NOT TO SCALE

No.	DATE	DESCRIPTION	CH'D
11	2024-10-28	ISSUED FOR ADDENDUM M01	
10	2024-09-30	RE-ISSUED FOR TENDER	
9	2024-08-29	ISSUED FOR TENDER	
8	2024-07-18	ISSUED FOR PERMIT	
7	2024-06-11	ISSUED FOR 100% CD	
6	2024-05-15	ISSUED FOR 50% CD	
5	2024-04-01	RE-ISSUED FOR 100% DD	
4	2024-02-27	RE-ISSUED FOR 50% DD	
3	2023-10-30	ISSUED FOR 100% DD	
2	2023-10-11	ISSUED FOR COORDINATION	
1	2023-08-01	ISSUED FOR 60% DD COSTING	

REVISIONS	PROJECT NORTH
THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.	

	250 ROWNTREE DAIRY RD. WOODBRIDGE, ON TEL: 905-507-0800 WEB: WWW.QUASARGC.COM
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FOR QUESTIONS REGARDING THIS PROJECT, PLEASE EMAIL:  
CM-22-149@QUASARGC.COM

PROJECT  
**HWP WAREHOUSE UPGRADE**  
**145 HARRY WALKER PARKWAY**  
**NEWMARKET**  
ON L3Y 7B3

TITLE  
**MECHANICAL DETAILS**

CHECKED ZH PROJECT No. CM-22-149

SCALE AS SHOWN DRAWING No. M504



BASE BOARD/FORCED FLOW ELECTRIC HEATERS SCHEDULE					
UNIT TAG	LOCATION	BASIS OF DESIGN		HEATER CAPACITY (KW)	POWER (V/PH/Hz)
		MANUFACTURER/MODEL	CONTROL		
BBH-1	PW FORESTRY	OUELLET OFM 0502	BUILT IN THERMOSTAT	2.0 KW	120/1/60
BBH-2	PW FORESTRY	OUELLET OFM 0502	BUILT IN THERMOSTAT	2.0 KW	120/1/60
FFWH-1	SADA STORAGE	OUELLET OAC02008T	BUILT IN THERMOSTAT	2.0 KW	208/1/60
FFWH-2	SADA STORAGE	OUELLET OAC02008T	BUILT IN THERMOSTAT	2.0 KW	208/1/60
FFWH-3	VESTIBULE	OUELLET OACT05000T	BUILT IN THERMOSTAT	3.0 KW	208/1/60

GRILLES AND DIFFUSERS SCHEDULE				
TAG	MAKE	MODEL	TYPE	SIZE
A	E.H.PRICE	620D	LOUVERED FACE SUPPLY AIR	AS INDICATED ON PLAN
B	E.H.PRICE	630	LOUVERED RETURN AIR GRILLE	AS INDICATED ON PLAN
C	E.H.PRICE	80	EGG GRATE EXHAUST AND RETURN AIR GRILLE	AS INDICATED ON PLAN
D	E.H.PRICE	SCD	SQUARE CONE DIFFUSER	AS INDICATED ON PLAN

CEILING FAN SCHEDULE												
UNIT TAG	QTY	AREA SERVED	MANUFACTURER/ MODEL	DIAMETER (MM)	# OF AIRFOILS	WEIGHT (KG)	SOUND LEVEL (DBA)	MOTOR (KW)	RPM	MOTOR AND DRIVE	VOLTAGE	BREAKER SIZE (A)
CF-1	6	WAREHOUSE	BIGASS / ESSENSE	4900	6	92.5	<35	1.5	98	ONBOARD NEMA 4X VFD	208/3/60	15
NOTES: 1. C/W EXTENSION TUBES, GUY WIRES AND MOUNTING SYSTEM WITH STRUCTURAL SUPPORT. 2. INSTALL 6 FEET BELOW CEILING. 3. INSTALL AS PER MANUFACTURER REQUIREMENTS												

RESIDENTIAL DRYER BOOSTER FAN SCHEDULE													
UNIT TAG	LOCATION	MAKE	MODEL	SERVICE	AIR FLOW (CFM)	ESP (IN)	MAX AMP	MOTOR (WATTS)	FAN RPM	POWER SUPPLY	DUCT CONNECTION	WEIGHT (LB)	NOTES REMARKS
DBF-1	LAUNDRY CLOSET	FANTECH	DEDPV 705	LAUNDRY DRYER	120	0.50	0.75	70	2600	115/1/60	4"	13.3	C/W DRYER LINT TRAP AND PRESSURE SENSOR FOR OPERATION

MOTORIZED DAMPER SCHEDULE							
TAG	LOCATION	MAKE AND MODEL	SIZE WxH (MM)	AIR FLOW (LPS)	ACTUATOR		
				MFG'R		MODEL	POWER
MD-1	PW-OMM WORK SHOP	TAMCO/9000	450x450	1014	BELIMO		LF-120-S 120/1/60 7.5 VA
MD-2	PW-MM WORK SHOP	TAMCO/9000	400x400	755	BELIMO		LF-120-S 120/1/60 7.5 VA
MD-3	PW-LARGE EQUIP	TAMCO/9000	500x500	1415	BELIMO		LF-120-S 120/1/60 7.5 VA
MD-4	WASHBAY LOWER	TAMCO/9000	500x500	1415	BELIMO		LF-120-S 120/1/60 7.5 VA
MD-6	CS-FMO WORK SHOP	TAMCO/9000	300x250	283	BELIMO		LF-120-S 120/1/60 7.5 VA
MD-7	CS-LARGE EOP. STORAGE	TAMCO/9000	450x450	1133	BELIMO		LF-120-S 120/1/60 7.5 VA

DOMESTIC HOT WATER SCHEDULE									
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	INPUT (KW)	STORAGE CAP	FLOW RATE AT 70°F RISE (LPM)	ELECTRIC	
								FLA (A)	POWER (V/PH/Hz)
DHW-1	A.O. SMITH	SSET-70E	CS-FMO WORKSHOP	WALL MOUNTED	7	0	2	29.00	240/1/60 4

AIR COMPRESSOR									
TAG	MAKE	MODEL	CAPACITY (L/S)	PRESSURE (Kpa)	MOTOR (KW)	POWER SUPPLY	WEIGHT (KG)	REMARKS	
CA-1	DV SYSTEMS	VATV-5063	17.36	1034	7.5	COMP - 575/3/60 AIR	408	C/W BUILT IN 120 GALLON VERTICAL TANK, AIR DRYER, FILTER, STARTER, PRV AND CONTROLLER	

EXHAUST FAN SCHEDULE										
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	AIR FLOW (LPS)	ESP (Pa)	FAN RPM	POWER SUPPLY		NOTES REMARKS
								KW	POWER (V/PH/Hz)	
EF-1	GREENHECK	G-160-B	PW-CPD STORAGE	ROOF	1014	125	1140	0.372	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH. INTERLOCK WITH MUA-1 FOR OPERATION
EF-2	GREENHECK	SP-B110	LAUNDRY	LAUNDRY	47	62.5	850	80 WATTS	120/1/60	C/W BACK DRAFT DAMPER, HANGING ROD, RAIN CAP, DISCONNECT SWITCH AND SCHEDULE TIMER SWITCH FOR OPERATION.
EF-3	GREENHECK	G-140-B	PW CMS WORK SHOP	ROOF	755	125	1140	0.186	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-2 FOR OPERATION.
EF-4	GREENHECK	G-180-VG	PW PALLET RACKING	ROOF	1415	125	1000	0.746	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. TO BE INTERLOCK WITH MUA-3 FOR OPERATION.
EF-5	NEDERMAN	NCF 30/20	PW-CMS WELDING AREA	ROOF	944	600	1725	3.0	575/3/60	C/W INLET/OUTLET ADAPTER, INLET/OUTLET GUARD, VIBRATION ISOLATOR, MOUNTING BRACKET, INLET MOTORIZED DAMPER, AUTOMATIC FAN CONTROL WITH OPERATION BOX, SENSOR CLAMP AND CONTRACTOR / OVERLOAD. INTERLOCK WITH MUA-4
EF-6	GREENHECK	G-100HP-VG	CHARGING STATION	ROOF	382	375	2500	0.373	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), BACK DRAFT DAMPER AND DISCONNECT SWITCH. SCHEDULE TIMER FOR OPERATION
EF-7	GREENHECK	G-099-A	CSF-MO WORK SHOP	ROOF	283	375	1725	0.186	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-6.
EF-8	GREENHECK	G-180-C	CS LARGE EQPT. STORAGE	ROOF	1332	125	860	0.373	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), MOTORIZED DAMPER AND DISCONNECT SWITCH AND STARTER. INTERLOCK WITH MUA-5 FOR OPERATION
EF-9	NEDERMAN	N40	CSF-MO WORK SHOP WELDING HOOD	ROOF	944	500	1725	1.5	575/3/60	C/W INLET/OUTLET ADAPTER, INLET/OUTLET GUARD, VIBRATION ISOLATOR, MOUNTING BRACKET, INLET MOTORIZED DAMPER, AUTOMATIC FAN CONTROL WITH OPERATION BOX, SENSOR CLAMP, HOOD SWITCH/LIGHT KIT AND CONTRACTOR / OVERLOAD. INTERLOCK WITH MUA-4
EF-10	GREENHECK	G-080-D	PW WASTE MANAGEMENT	ROOF	71	125	1550	37.2 WATTS	120/1/60	C/W 450MM HIGH MATCHING INSULATED ROOF CURB, BIRD SCREEN(ALUMINIUM), BACK DRAFT DAMPER AND DISCONNECT SWITCH. SCHEDULE TIMER FOR OPERATION

INDIRECT GAS FIRED-MAKEUP AIR UNIT												
UNIT TAG	MAKE	MODEL	SERVICE	SUPPLY FAN			GAS HEATING INPUT/OUT PUT (MBH)	TEMP-RISE (°F)	ELECTRICAL			UNIT WEIGHT (LBS)
				FLOW RATE (LPS)	ESP (Pa)	RPM			V/PH/Hz	MCA	MAX. BREAKER	
MAU-1	ENGINEERED AIR	DJS40/O	PW FORESTRY	1038	125	1625	2	275 / 223	94	575/3/60	8.60	15
MAU-2	ENGINEERED AIR	DJS20/O	PW CMS WORKSHOP	755	125	1881	2	200 / 162	94	575/3/60	8.60	15
MAU-3	ENGINEERED AIR	DJS40/O	PW PALLET RACKING	1415	125	1333	3	375 / 304	94	575/3/60	10.10	15
MAU-4	ENGINEERED AIR	DJS40/O	CS FMO WELDING	944	125	1631	2	250 / 203	94	575/3/60	8.60	15
MAU-5	ENGINEERED AIR	DJS40/O	PW PALLET RACKING	1510	125	1332	3	400 / 324	94	575/3/60	10.10	15
MAU-6	ENGINEERED AIR	DJS40/O	CS FMO WELDING	944	125	1631	2	250 / 203	94	575/3/60	8.60	15
NOTES: 1. PROVIDE REMOTE CONTROL PANEL C/W HEAT/AUTO/FAN SWITCH, HEAT ON LIGHT, FAN ON LIGHT. PROVIDE WIRING FROM UNIT TO REMOTE CONTROL PANEL, AND TO BE LOCATED AT GROUND FLOOR STORAGE AREA. 2. 16" HIGH INSULATED ROOF CURB FROM FINISHED ROOF. 3. STAINLESS STEEL HEAT EXCHANGER 4. OUTDOOR AIR WEATHER HOOD, BIRD SCREEN & MOTORIZED DAMPER 5. FILTER SECTION TO BE C/W 2" MERV 8 PREFILTER AND 4" MERV 13 FINAL FILTER. 6. DISCHARGE AIR SENSOR												

SPLIT UNIT HEAT PUMPS																						
TAG (OUT DOOR/INDOOR)	MANUFACTURER	MODEL		SERVICE	LOCATION	AIR		REFRIGERANT TYPE	COOLING			HEATING				ELECTRICAL			REMARKS			
		OUTDOOR	INDOOR			AIRFLOW (L/s)	ESP (Pa)		TOTAL	SENSIBLE	LATENT	SET POINT D.B. (°C)	SET POINT W.B. (°C)	S.A.T. D.B. (°C)	S.A.T. W.B. (°C)	CAPACITY (kW)	SET POINT D.B. (°C)	SET POINT W.B. (°C)		S.A.T. (°C)	V/PHz	MCA(A)
SAC-1	mitsubishi	SCU-2	PKFY-P12NL MU-E	HEATING/COOLING	PW-OMM BSCI	140	-	R410A	3.52			25				3.95	18.00		208-230/60/1	0.24	15	WALL MTD
SAC-2	mitsubishi	SCU-1	PKFY-P12NL MU-E	HEATING/COOLING	PW-OMM OFFICE	140	-	R410A	3.52			25				3.95	18.00		208-230/60/1	0.24	15	WALL MTD
SAC-3	mitsubishi	SCU-1	PEFY-P24NM AU-E3	HEATING/COOLING	PW-TECH-SUPPOR T-DUCTED	416	149	R410A	7.03			25				7.91	18.00		208-230/60/1	2.73	30	HORIZONTAL-DUCTED
SAC-4	mitsubishi	SCU-2	PKFY-P12NL MU-E	HEATING/COOLING	PW-CMS INSTRUMENTATION	140	-	R410A	3.52			25				3.95	18.00		208-230/60/1	0.24	15	WALL MTD
SCU-1	mitsubishi	PUMY-HP36N KMU2	SAC-2,3	-	CMS-OFFICE ROOF	-	-	R410A	10.55							12.31			208-230/60/1	36	44	ROOF MOUNTED
SCU-2	mitsubishi	PUMY-HP36N KMU2	SAC-1,4	-	CMS INSTRUMENTATION ROOF	-	-	R410A	10.55							12.31			208-230/60/1	36	44	ROOF MOUNTED
COMPLETE WITH 1. PROVIDE WEATHER PROOF DISCONNECT SWITCH FOR OUTDOOR UNIT AND PROVIDE DISCONNECT SWITCH FOR EACH INDOOR UNIT. 2. PROVIDE REFRIGERANT PIPING AND CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNIT AS PER MANUFACTURER RECOMMENDATION. 3. INDOOR UNIT ROOM THERMOSTAT CONTROLLER 4. INSTALL THE OUTDOOR UNIT ON 18" HIGH FOOT STAND. STAND SHOULD BE SECURED THE BASE CONCRETE PADS 5. INDOOR UNIT TO BE C/W INBUILT CONDENSATE PUMP																						

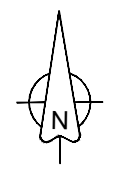

GAS FIRED INFRARED TUBE HEATER SCHEDULE									
UNIT TAG	AREA SERVED	MAKE	MODEL	CAPACITY(KW)	LENGTH(M)	V/PH/Hz	FLU & AIR VENT(MM)	WEIGHT(KG)	REMARKS
IR-1	WASH BAY	SCHWANK	STW-JZ-80-30	23.4	9.5	120/1/60	100	69.85	C/W MOISTURE PROOF THERMOSTAT-NEMA 4X THERMOSTAT
IR-2	WASH BAY	SCHWANK	STW-JZ-155-60	44	18.4	120/1/60	100	128	C/W MOISTURE PROOF THERMOSTAT-NEMA 4X THERMOSTAT
NOTES: 1. PROVIDE1000 COMBUSTION AIR INTAKE WITH WALL /ROOF CAP, 1000 HORIZONTAL WALL OR ROOF FLUE B-VENT WITH FLUE VENT TERMINAL, AND TRANSITION FITTING TO SUIT, MATERIAL FOR VENT AND COMBUSTION AIR PER MANUFACTURER RECOMMENDATION. 2. INSTALLATION OF HEATER PER MANUFACTURER AND LOCAL CODE. 3. PROVIDE LION CHAIN AND HANGERS TO SUSPEND FROM THE STRUCTURE.									

INTAKE AIR VENTILATOR									
UNIT TAG	MAKE	MODEL	SERVICE	LOCATION	AIR FLOW (LPS)	PRES. DRP (PA)	REMARKS		
AH-1	GREENHECK	GRSI-30	WASH BAY LOWER	ROOF	1415	22	COMPLETE WITH 450MM HIGH MATCHING INSULATED ROOF CURB AND MOTORIZED DAMPER		

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11

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No.	DATE	DESCRIPTION	CH'D

REVISIONS		PROJECT NORTH
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PROJECT <b>HWP WAREHOSE UPGRADE</b> <b>145 HARRY WALKER PARKWAY</b> <b>NEWMARKET</b> ON L3Y 7B3		
TITLE MECHANICAL SCHEDULE		
CHECKED ZH	PROJECT No. <b>CM-22-149</b>	
SCALE AS SHOWN	DRAWING No. <b>M600</b>	