



① Key Plan
1 : 5000

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FIRM NAME: WORKSHOP ARCHITECTURE 6 Sousa Mendes St Toronto, ON M6P 0A8 tel. 416.901.8065 fax 416.849.0383		LOCATION: Durham College 2000 Simcoe Street North Oshawa, ON		
NAME OF PROJECT: Durham College JW-Wing Renovation Area of Work 2		Project Area: 135 m ² (interior alteration)	OBC REFERENCE References are to Division B unless noted [A] for Division A or [C] for Division C	
ITEM	ONTARIO'S 2012 BUILDING CODE DATA MATRIX PARTS 3 & 9			
1	PROJECT DESCRIPTION:	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> PART 11 <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION	<input checked="" type="checkbox"/> PART 3 11.2 [A]	<input type="checkbox"/> PART 9 11.2 [A] & 9.10.1.3
2	MAJOR OCCUPANCY(S):	A2	3.1.2.1(1)	9.10.2
3	BUILDING AREA (M ²)	EXISTING: 1176 NEW: 0 TOTAL: no change	1.4.1.2[A]	1.4.1.2[A]
4	GROSS AREA	EXISTING: 2143 NEW: 0 TOTAL: no change	1.4.1.2[A]	1.4.1.2[A]
5	NUMBER OF STOREYS	ABOVE GRADE 2 BELOW GRADE 0	1.4.1.2[A] & 3.2.1.1	1.4.1.2[A] & 9.10.4
6	NUMBER OF STREETS / FIRE FIGHTER ACCESS	2 (EXISTING UNCHANGED)	3.2.2.10 & 3.2.5	9.10.20
7	BUILDING CLASSIFICATION	3.2.2.26	3.2.2.20-83	9.10.2
8	SPRINKLER SYSTEM (PROPOSED)	<input checked="" type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> BASEMENT <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> NOT REQUIRED	3.2.2.20-83 3.2.15 3.2.2.17 INDEX	9.10.8.2
9	STANDPIPE REQUIRED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.9	N/A
10	FIRE ALARM REQUIRED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.4	9.10.1B
11	WATER/SERVICE/SUPPLY IS ADEQUATE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.5.7	N/A
12	HIGH BUILDING	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.6	N/A
13	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	<input checked="" type="checkbox"/> COMBUSTIBLE PERMITTED <input type="checkbox"/> NON-COMBUSTIBLE REQUIRED <input type="checkbox"/> BOTH	3.2.2.20-83	9.10.6
14	MEZZANINE(S) AREA M ²	NA	3.2.1.1(3)-(8)	9.10.4.1
15	OCCUPANT LOAD BASED ON	<input type="checkbox"/> M.SQ./PERSON OCCUPANCY <input checked="" type="checkbox"/> DESIGN OF BUILDING LOAD Unchanged PERSONS	3.1.17	9.9.1.3
16	BARRIER-FREE DESIGN	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN)	3.8	9.5.2
17	HAZARDOUS SUBSTANCES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.3.1.2 & 3.3.1.19	9.10.1.3(4)
18	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES FRR (HOURS) FLOORS 0 HOURS ROOF 0 HOURS MEZZANINE NA HOURS FRR OF SUPPORTING MEMBERS LISTED DESIGN NO. OR DESCRIPTION (SG-2) NA LISTED DESIGN NO. OR DESCRIPTION (SG-2) NO CHANGE	3.2.2.20-83 & 3.2.1.4 9.10.8 9.10.9 NO CHANGE	
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS	NA	3.2.3	9.10.1.4
20	OTHER-DESCRIBE There is no proposed Change In Use/Occupant Load under this work Existing building is non-combustible construction Fire separation at Public Corridor is waived given Floor Area is sprinklered as per OBC 3.3.2.5(3)			

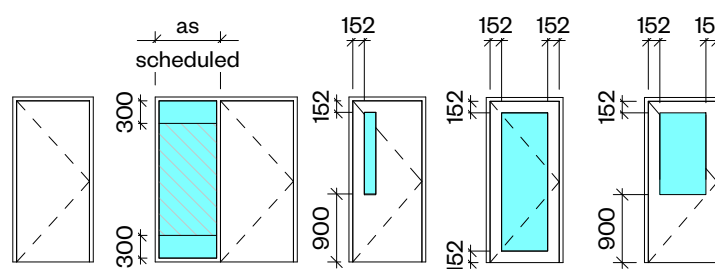
FIRM NAME: WORKSHOP ARCHITECTURE 6 Sousa Mendes St Toronto, ON M6P 0A8 tel. 416.901.8065 fax 416.849.0383		LOCATION: Durham College 2000 Simcoe Street North Oshawa, ON		
NAME OF PROJECT: Durham College G-Wing Renovation Area of Work 3		Project Area: 225 m ² (interior alterations)	OBC REFERENCE References are to Division B unless noted [A] for Division A or [C] for Division C	
ITEM	ONTARIO'S 2012 BUILDING CODE DATA MATRIX PARTS 3 & 9			
1	PROJECT DESCRIPTION:	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> PART 11 <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION	<input checked="" type="checkbox"/> PART 3 11.2 [A]	<input type="checkbox"/> PART 9 11.2 [A] & 9.10.1.3
2	MAJOR OCCUPANCY(S):	A2	3.1.2.1(1)	9.10.2
3	BUILDING AREA (M ²)	EXISTING: 2002 NEW: 0 TOTAL: no change	1.4.1.2[A]	1.4.1.2[A]
4	GROSS AREA	EXISTING: 3696 NEW: 0 TOTAL: no change	1.4.1.2[A]	1.4.1.2[A]
5	NUMBER OF STOREYS	ABOVE GRADE 2 BELOW GRADE 0	1.4.1.2[A] & 3.2.1.1	1.4.1.2[A] & 9.10.4
6	NUMBER OF STREETS / FIRE FIGHTER ACCESS	1 (EXISTING UNCHANGED)	3.2.2.10 & 3.2.5	9.10.20
7	BUILDING CLASSIFICATION	3.2.2.25 (Existing Non-conforming)	3.2.2.20-83	9.10.2
8	SPRINKLER SYSTEM (PROPOSED)	<input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> BASEMENT <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> SELECTED FLOOR AREAS <input checked="" type="checkbox"/> NOT SPRINKLERED	3.2.2.20-83 3.2.15 3.2.2.17 INDEX	9.10.8.2
9	STANDPIPE REQUIRED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.9	N/A
10	FIRE ALARM REQUIRED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.4	9.10.1B
11	WATER/SERVICE/SUPPLY IS ADEQUATE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.5.7	N/A
12	HIGH BUILDING	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.6	N/A
13	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	<input checked="" type="checkbox"/> COMBUSTIBLE PERMITTED <input type="checkbox"/> NON-COMBUSTIBLE REQUIRED <input type="checkbox"/> BOTH	3.2.2.20-83	9.10.6
14	MEZZANINE(S) AREA M ²	NA	3.2.1.1(3)-(8)	9.10.4.1
15	OCCUPANT LOAD BASED ON	<input type="checkbox"/> M.SQ./PERSON OCCUPANCY <input checked="" type="checkbox"/> DESIGN OF BUILDING LOAD Unchanged PERSONS	3.1.17	9.9.1.3
16	BARRIER-FREE DESIGN	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN)	3.8	9.5.2
17	HAZARDOUS SUBSTANCES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.3.1.2 & 3.3.1.19	9.10.1.3(4)
18	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES FRR (HOURS) FLOORS 0 HOURS ROOF 0 HOURS MEZZANINE NA HOURS FRR OF SUPPORTING MEMBERS LISTED DESIGN NO. OR DESCRIPTION (SG-2) NA LISTED DESIGN NO. OR DESCRIPTION (SG-2) NO CHANGE	3.2.2.20-83 & 3.2.1.4 9.10.8 9.10.9 NO CHANGE	
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS	NA	3.2.3	9.10.1.4
20	OTHER-DESCRIBE There is no proposed Change In Use/Occupant Load under this work Existing building does not conform to 3.2.2.25 classification as it exceeds permitted building area Existing building is non-combustible construction Public Corridor provides FRR per 3.3.2.5(4)			

ASSEMBLY SCHEDULE

- USE WATER RESISTANT DRYWALL IN AREAS SCHEDULED TO RECEIVE TILE - REFER TO SPECIFICATION 09 21 00
- PROVIDE CONTINUOUS PLYWOOD BLOCKING BEHIND ALL MILLWORK CABINETS, SUSPENDED ITEMS, TELEVISIONS ETC.
- ALL INTERNAL PARTITIONS EXTEND TO U/S DECK ABOVE UNLESS NOTED OTHERWISE.
- PROVIDE FIRE RESISTANCE RATINGS AS INDICATED ON DRAWINGS

INTERIOR PARTITIONS

	1 LAYER 16mm TYPE X GYPSUM WALLBOARD 92mm STEEL STUDS ACOUSTICAL FIRE BATT INSULATION 1 LAYER 16mm TYPE X GYPSUM WALLBOARD TO U/S OF SLAB
	1 LAYER 16mm TYPE X GYPSUM WALLBOARD 152mm STEEL STUD FRAMING @ MAX 600mm o.c. 125mm ACOUSTICAL FIRE BATT INSULATION RESILIENT CHANNEL @ MAX 600mm o.c. 1 LAYER 16mm TYPE X GYPSUM WALLBOARD TO U/S OF SLAB
	1 LAYER 16mm TYPE X GYPSUM WALLBOARD 92mm STEEL STUDS TO U/S OF SLAB UNLESS NOTED OTHERWISE

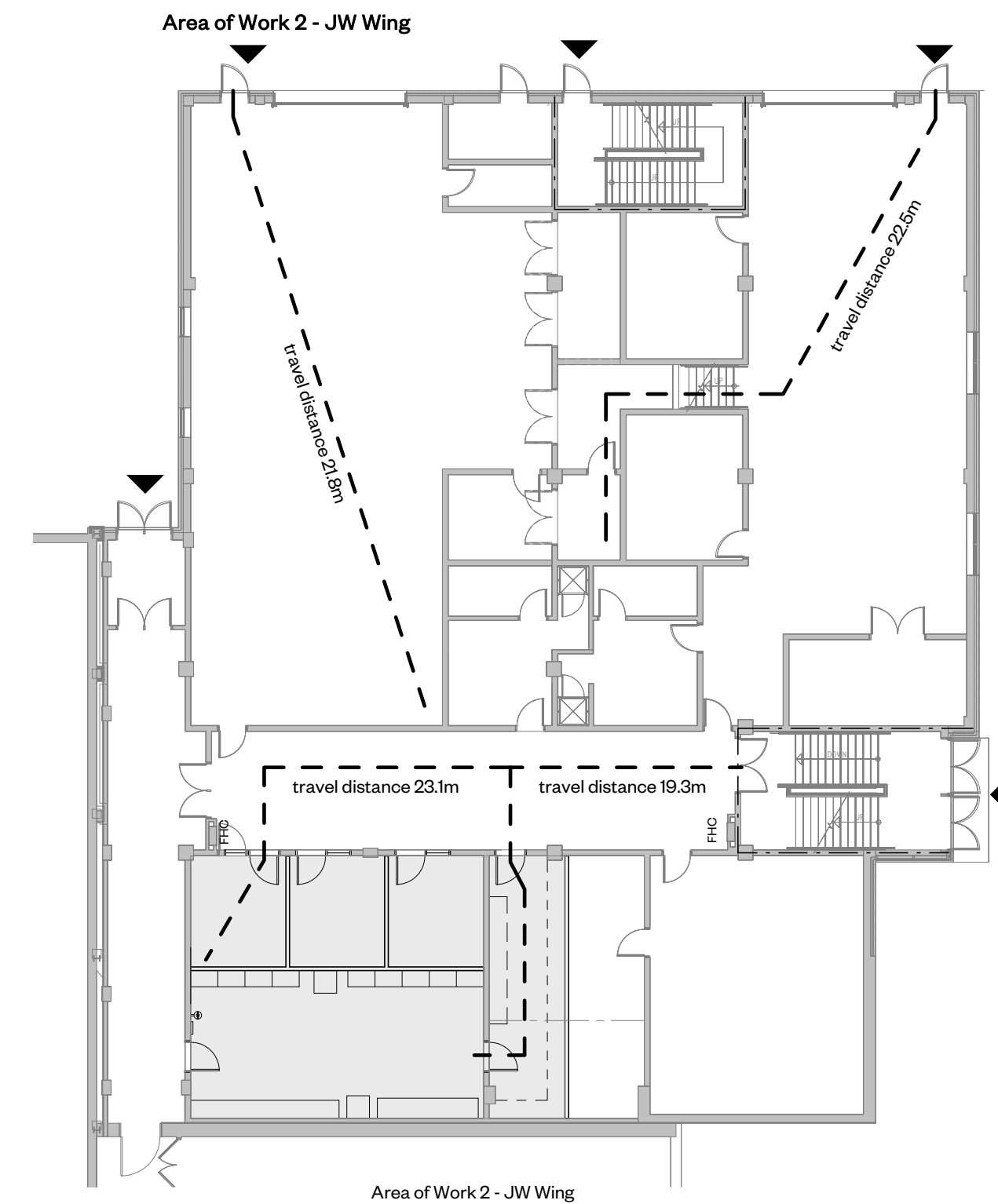


Door A/AA Door B Door C Door D/DD Door E

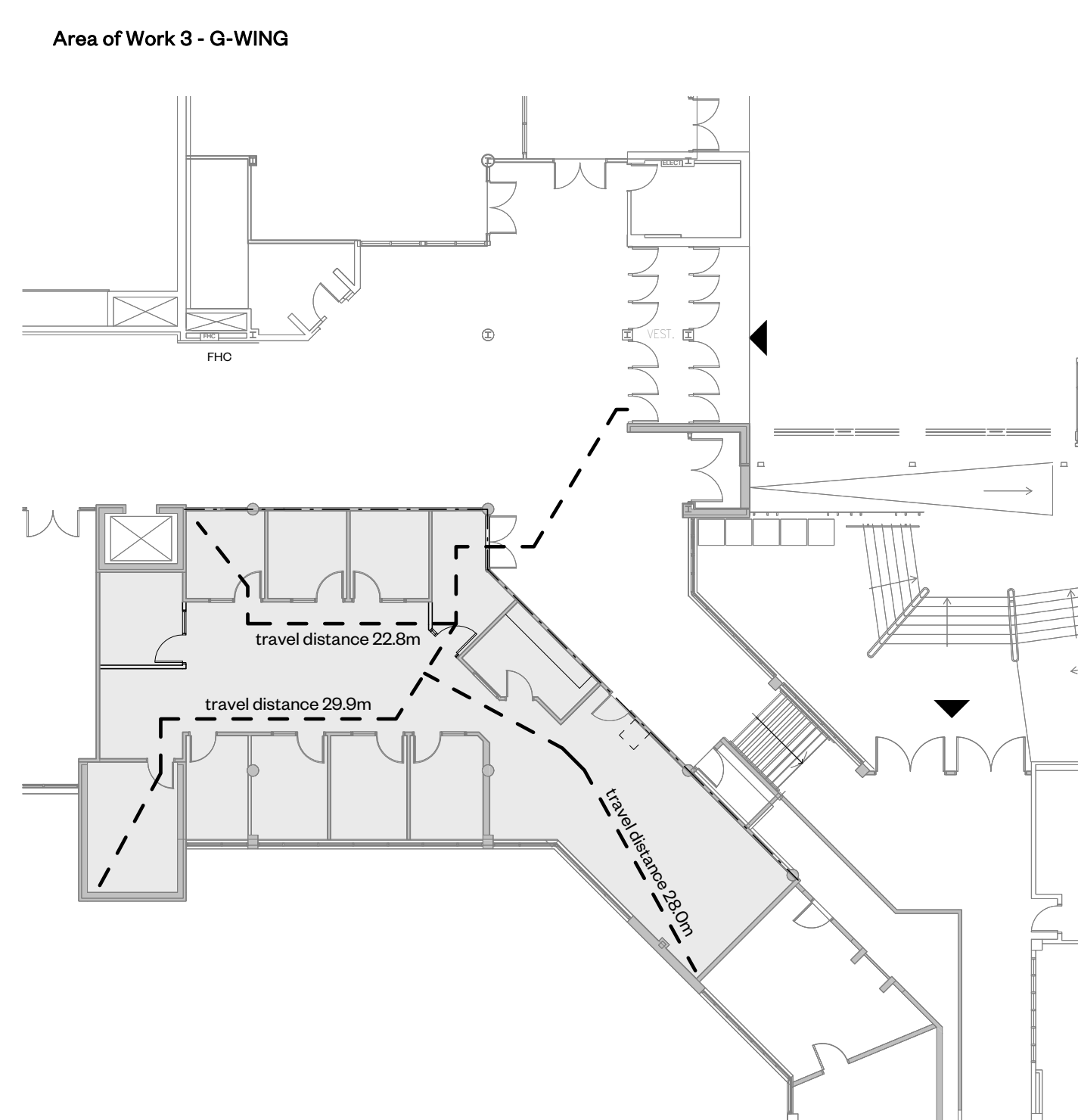
NOTE:
All glazing to be tempered UNO
Provide wireless/ceramic fire rated glass at rated doors/screens
All HM frames to be 2" profile
Privacy film - acceptable product: Milky Milky SH2MAMM by 3M

Door Schedule											
Door No.	Type Mark	Height	Width	Sidelight	Door Mat'l	Finish	Frame Material	Frame Fin.	FRR	Power Operator	Card Reader
G-Wing											
DQ202A	A	2134	965		HM	PT	HM	PT	45-min		Y
DQ202B	B	2134	965	275	HM	PT	HM	PT			Privacy film at sidelight
DQ202E	B	2134	965	800	HM	PT	HM	PT			Privacy film at sidelight
JW-Wing											
DJW103	A	2134	965		HM	PT	HM	PT			Y
DJW105	A	2134	965		HM	PT	HM	PT			Y
DJW105A	B	2134	965	800	HM	PT	HM	PT		Y	Privacy film at sidelight
DJW105B	B	2134	965	800	HM	PT	HM	PT		Y	Privacy film at sidelight
DJW105C	B	2134	965	800	HM	PT	HM	PT		Y	Privacy film at sidelight
DJW106	A	2134	965		HM	PT	HM	PT		Y	

Room Finish Schedule						
Room No.	Room Name	Wall Finish	Floor Finish	Base Finish	Ceiling Finish	Comments
G-Wing						
G202	Reception	PT	RES	RB	ACT	
G202A	Office	PT	RES	RB	ACT	
G202B	Office	PT	RES	RB	ACT	
G202C	Office	PT	RES	RB	ACT	
G202D	Storage	PT	RES	RB	ACT	
G202E	Office	PT	RES	RB	ACT	
G202F	Office	PT	RES	RB	ACT	
G202G	Office	PT	RES	RB	ACT	
G202H	Office	PT	RES	RB	ACT	
G202I	Office	PT	RES	RB	ACT	
G202J	Office	PT	RES	RB	ACT	
JW-Wing						
JW103	Storage/Supplies Rm	PT	RES	RB	ACT	
JW105	Staff Room	PT	RES	RB	ACT	
JW105A	Office	PT	RES	RB	ACT	
JW105B	Office	PT	RES	RB	ACT	
JW105C	Office	PT	RES	RB	ACT	



④ JW WING Level 01 - Life Safety Plan
1 : 200



⑤ G WING Level 02 - Life Safety Plan
1 : 200

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Rev	Description	Date
1	Issued for Costing	13 Sept '21
2	Re-Issued for Class B Costing	15 Oct '21
3	Issued for Permit	01 Dec '21
4	Re-Issued for Tender	20 April '22

Life Safety Plan Legend

- Travel Distance
Max Allowable = 30m
- FHC Coverage Max Allowable:
30.0m + 3.0m spray = 33.0m
- FHC Fire Hose Cabinet
- Shaded area indicates approximate extent of proposed work
- 1HR FRR
- Exit



WORKSHOP

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Durham College J-Block

2000 Simcoe St North
Oshawa, ON L1H 7K4

PROJECT CODE:	SCALE:
2130	As indicated
DATE:	STATUS:
21 Dec '21	Tender

OBC Matrix, Life Safety Plans & Schedules



Rev	Description	Date
1	Issued for Costing	13 Sept '21
2	Re-Issued for Class B Costing	15 Oct '21
3	Issued for Permit	01 Dec '21

Demolition Legend

- Existing CMU partition to be demolished
- Existing wall partition system to be demolished
- Existing element to be demolished
- Approximate extent of flooring to be removed
- Approximate extent of ceiling to be removed
- Existing door leaf and frame to be demolished

Legend

- Existing partition to remain
- New partition as scheduled

Symbols Legend

- Partition Tag - refer to partition schedule
- Exterior Wall Tag - refer to partition schedule
- Window tag - refer to schedule
- Glazed Screen tag - refer to schedule
- New Door tag - refer to schedule
- Millwork Tag
- Ceiling Material Height above Finished Floor
- Bulletinboard
- Existing
- Not in Contract



WORKSHOP

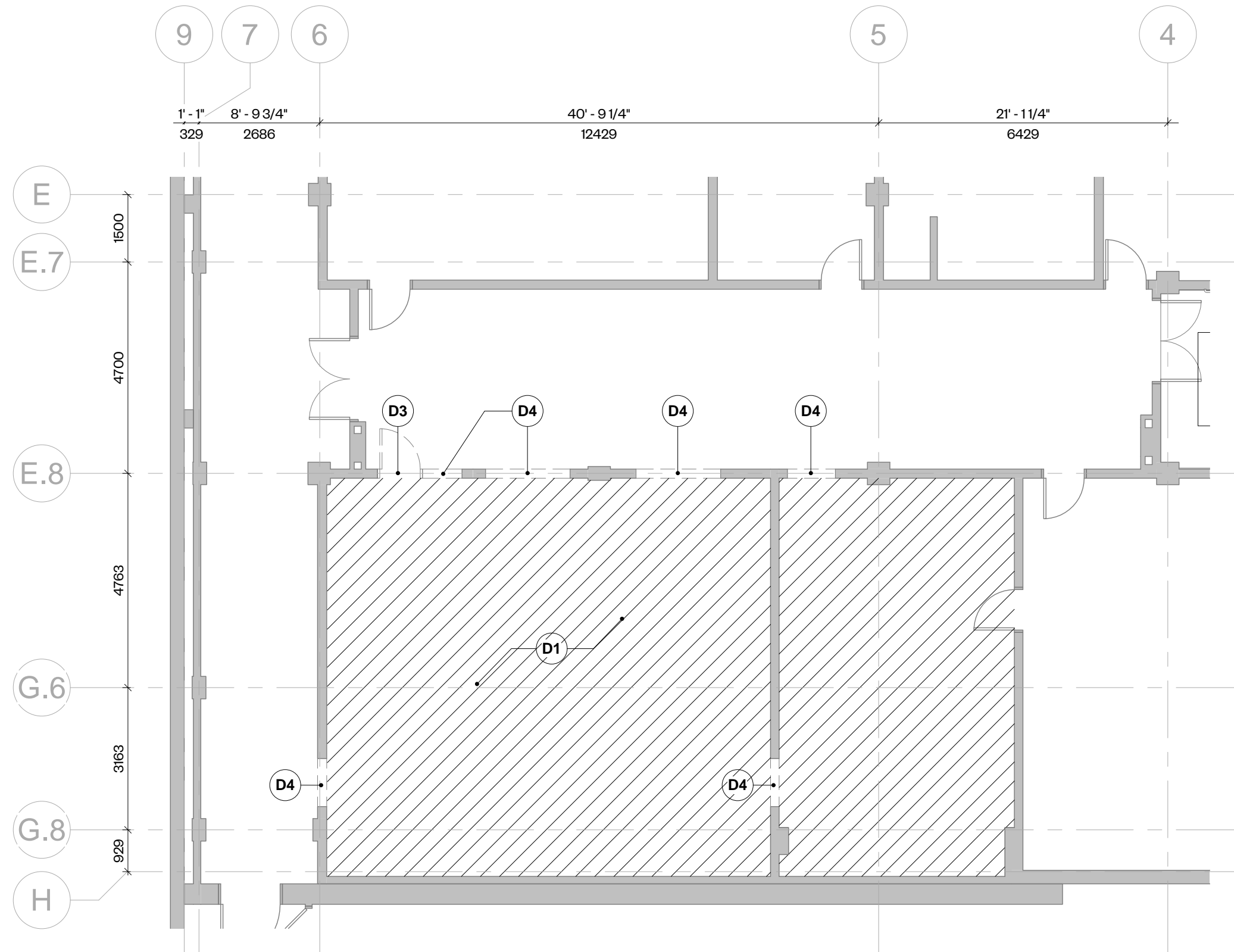
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Durham College J-Block

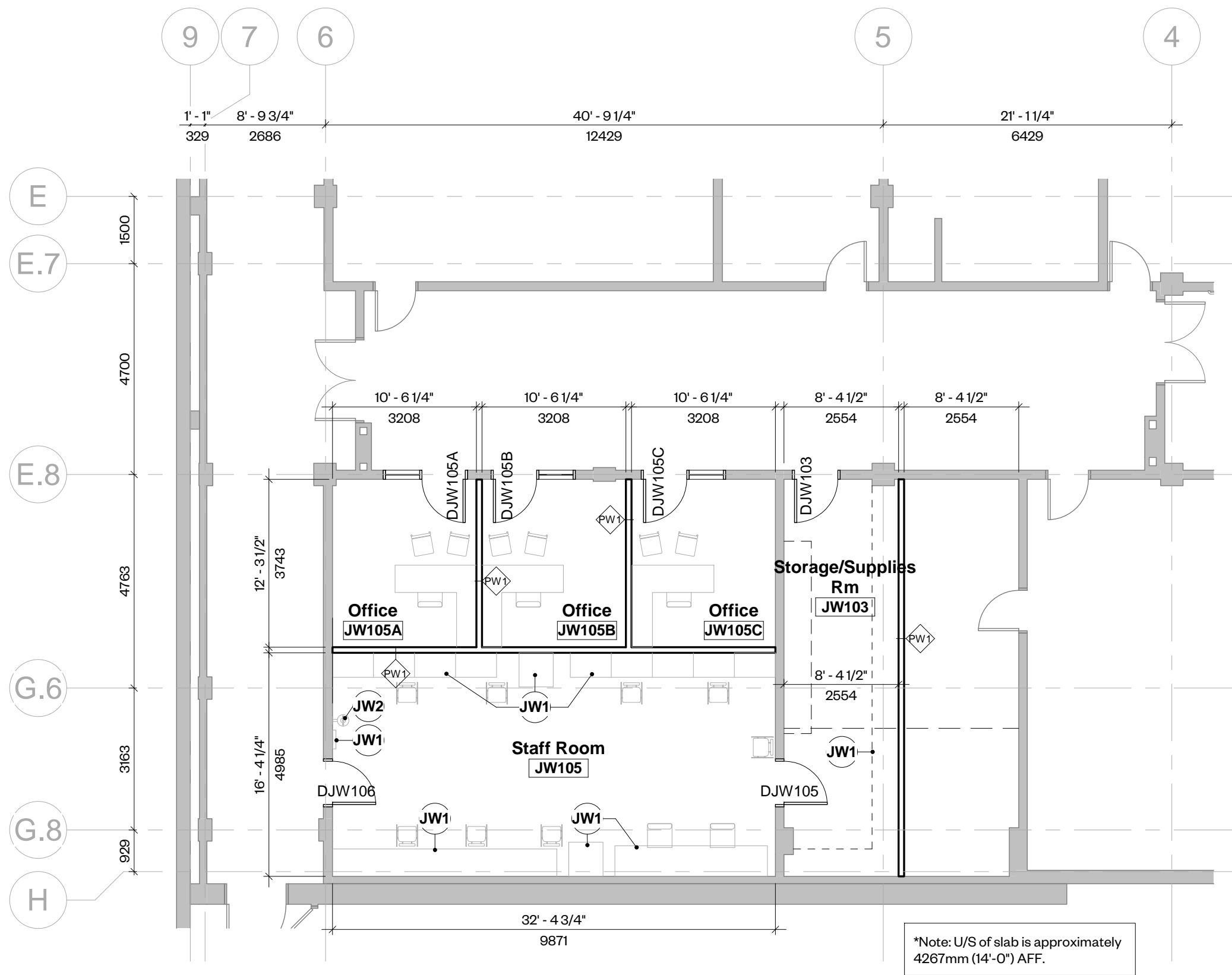
2080 Simcoe St North
Oshawa, ON L1H 7K4

PROJECT CODE:	SCALE:
2130	As indicated
DATE:	STATUS:
21 Dec '21	Tender

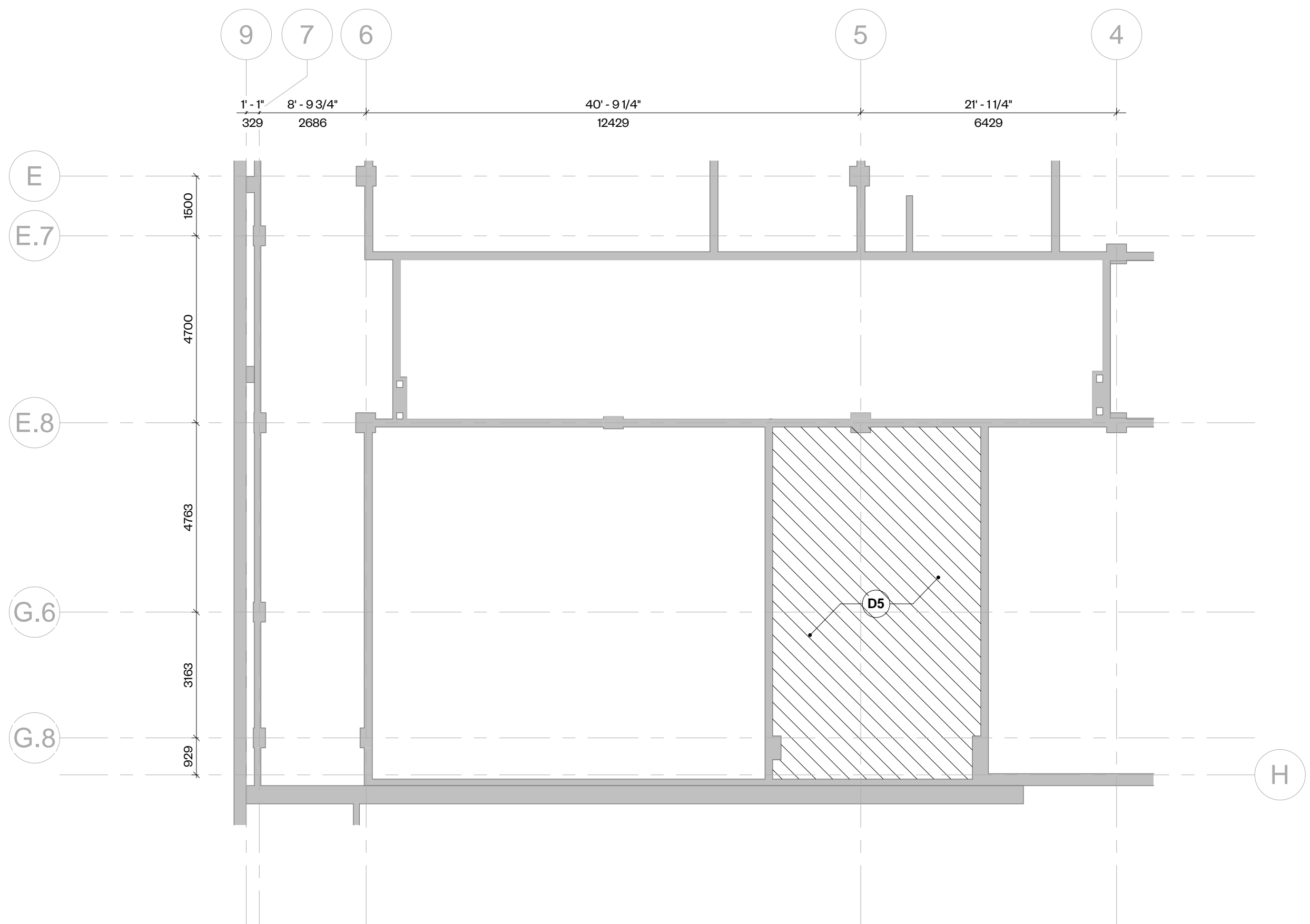
JW-WING - Demolition & Proposed Plans & RCP



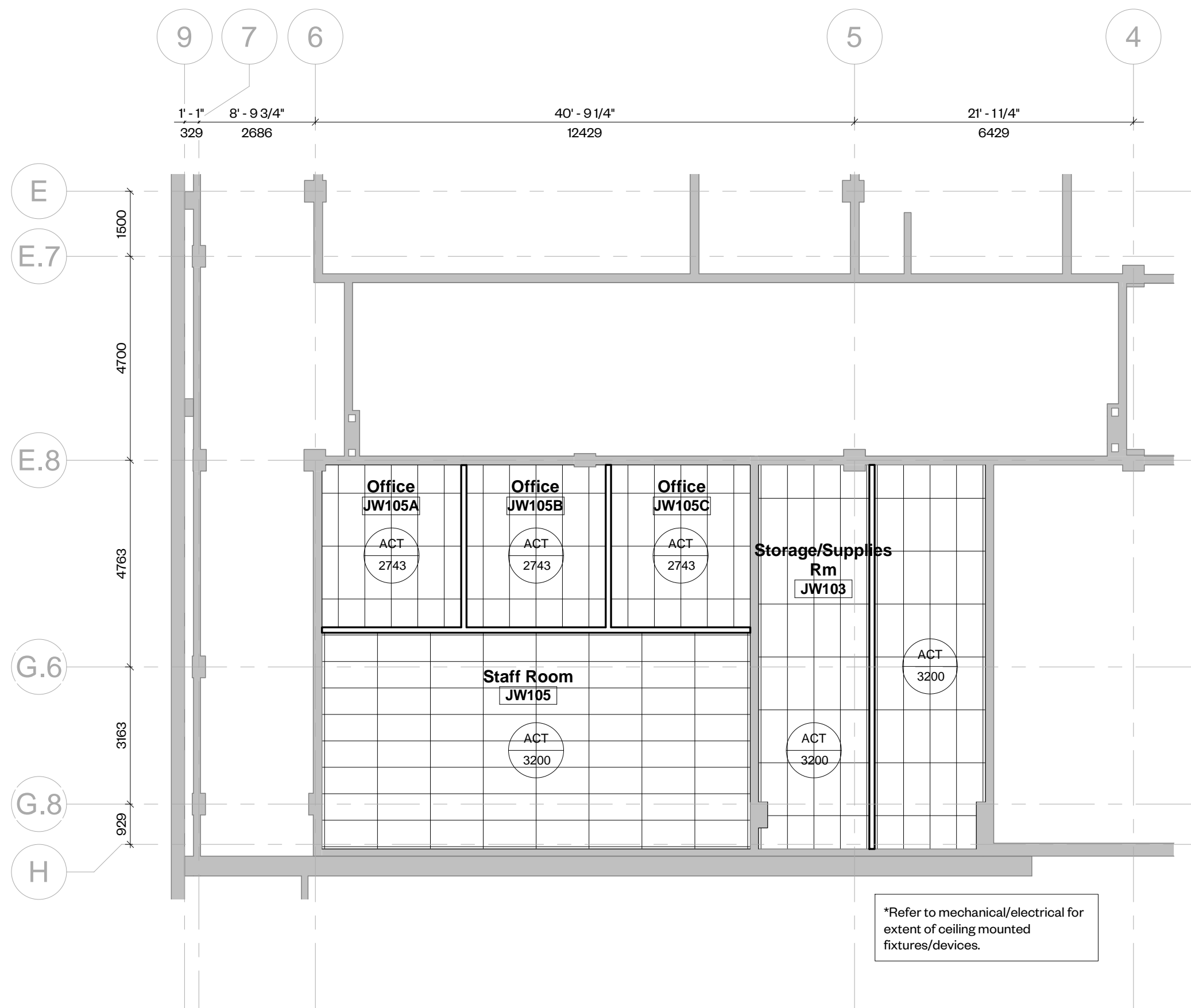
① JW WING Level 01 - Demolition Plan
1 : 100



② JW WING Level 01 - Proposed
1 : 100



④ JW WING Level 01 - Demolition RCP
1 : 100



③ JW WING Level 01 - Proposed RCP
1 : 100

Rev	Description	Date
1	Issued for Costing	13 Sept '21
2	Re-Issued for Class B Costing	15 Oct '21
3	Issued for Permit	01 Dec '21

Demolition Legend

- Existing CMU partition to be demolished
- Existing wall partition system to be demolished
- Existing element to be demolished
- Approximate extent of flooring to be removed
- Approximate extent of ceiling to be removed
- Existing door leaf and frame to be demolished

Legend

- Existing partition to remain
- New partition as scheduled

Symbols Legend

- Partition Tag - refer to partition schedule
- Exterior Wall Tag - refer to partition schedule
- Window tag - refer to schedule
- Glazed Screen tag - refer to schedule
- New Door tag - refer to schedule
- Millwork Tag
- Ceiling Material Height above Finished Floor
- Bulletinboard
- Existing
- Not in Contract



WORKSHOP

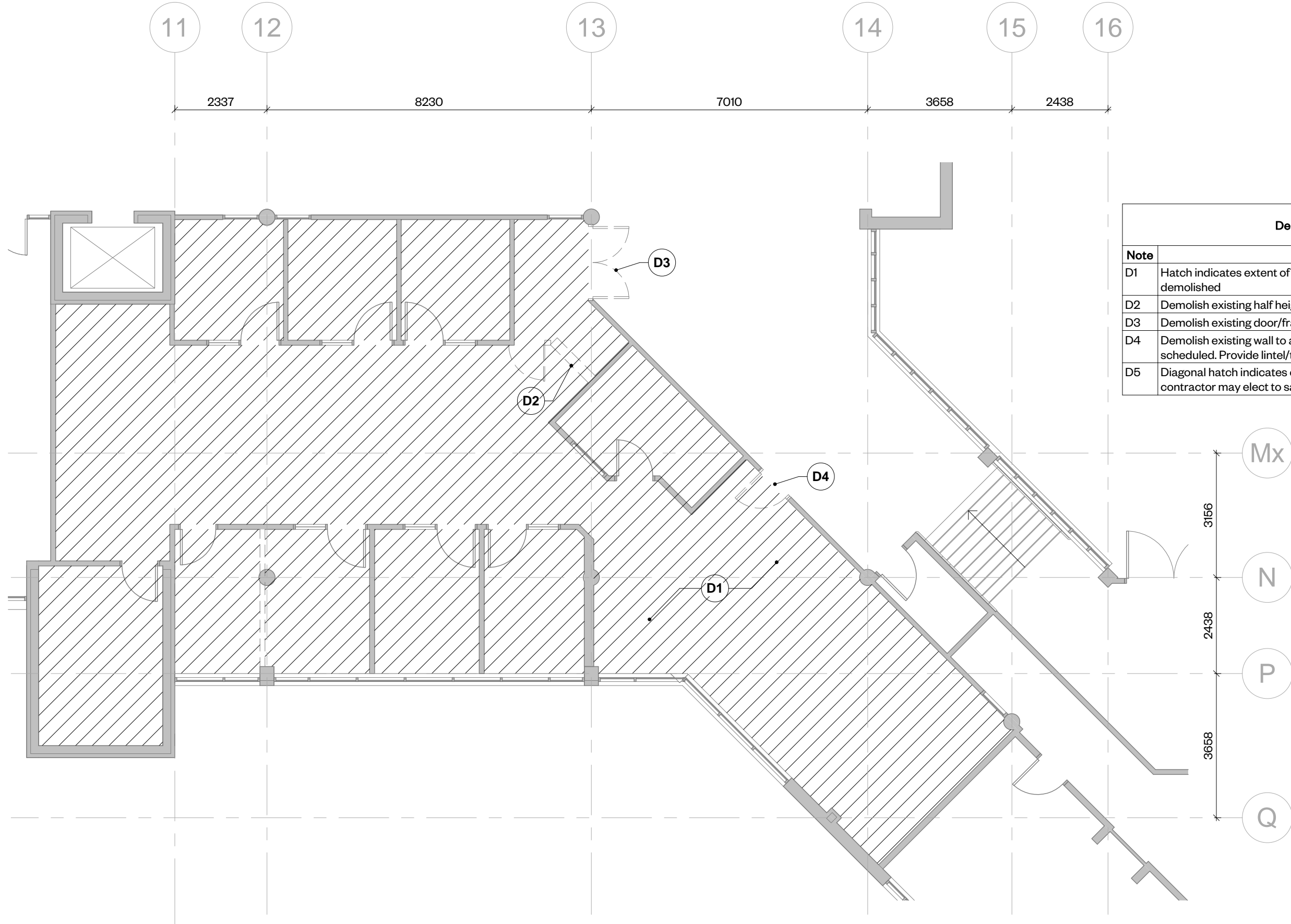
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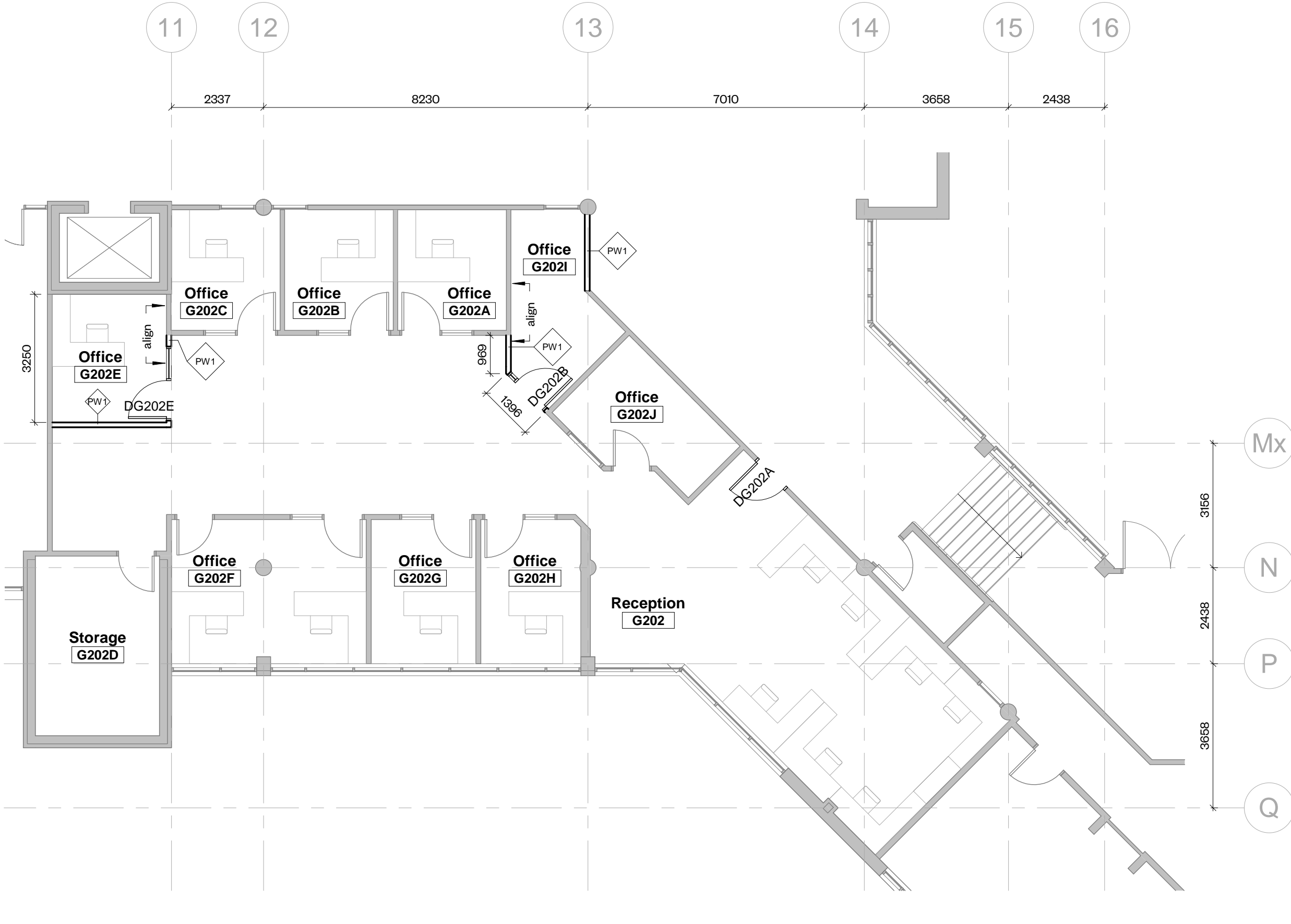
2080 Simcoe St North
Oshawa, ON L1H 7K4

PROJECT CODE:	SCALE:
2130	As indicated
DATE:	STATUS:
21 Dec '21	Tender

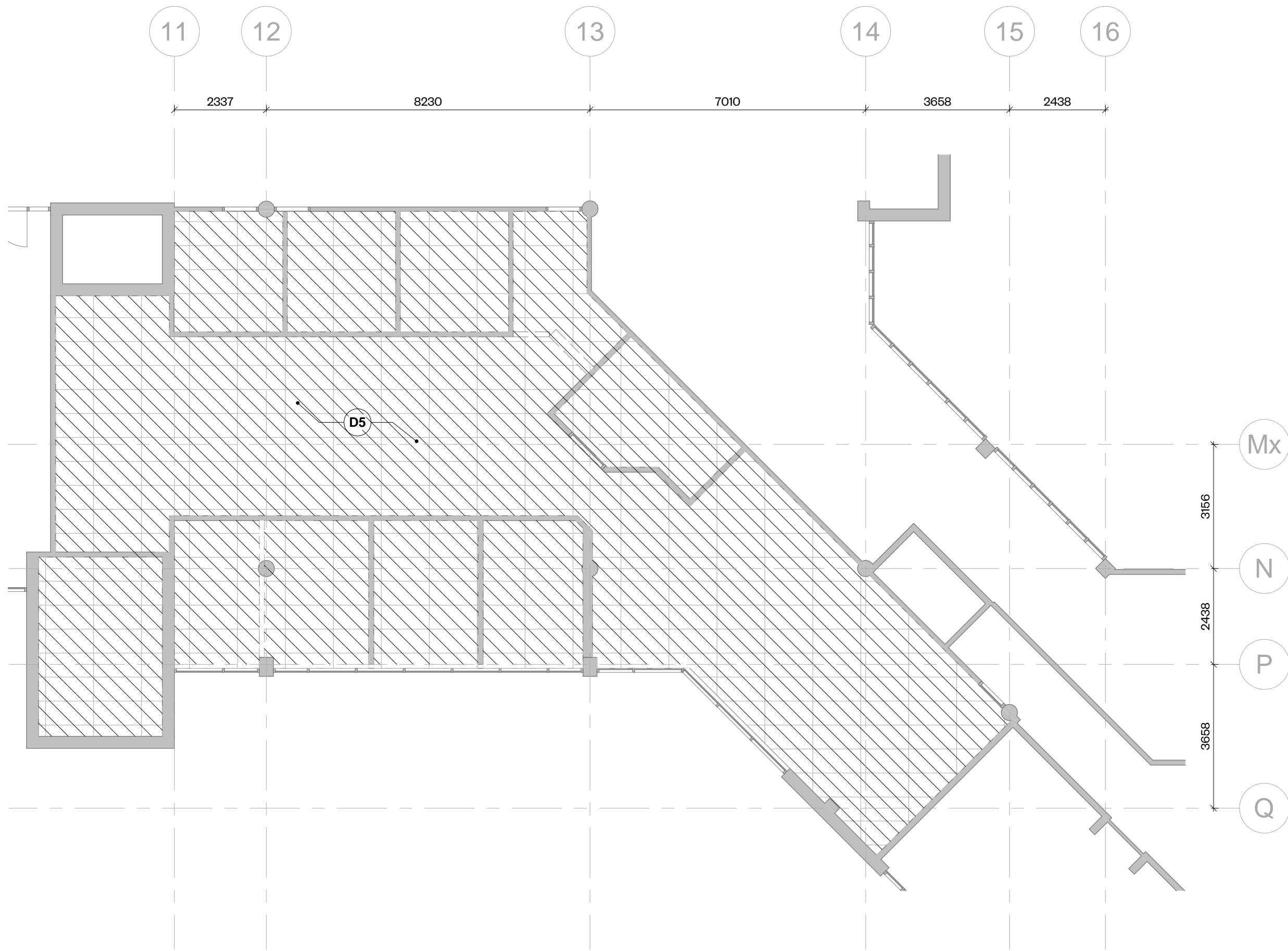
G-WING - Demolition & Proposed Plans & RCP



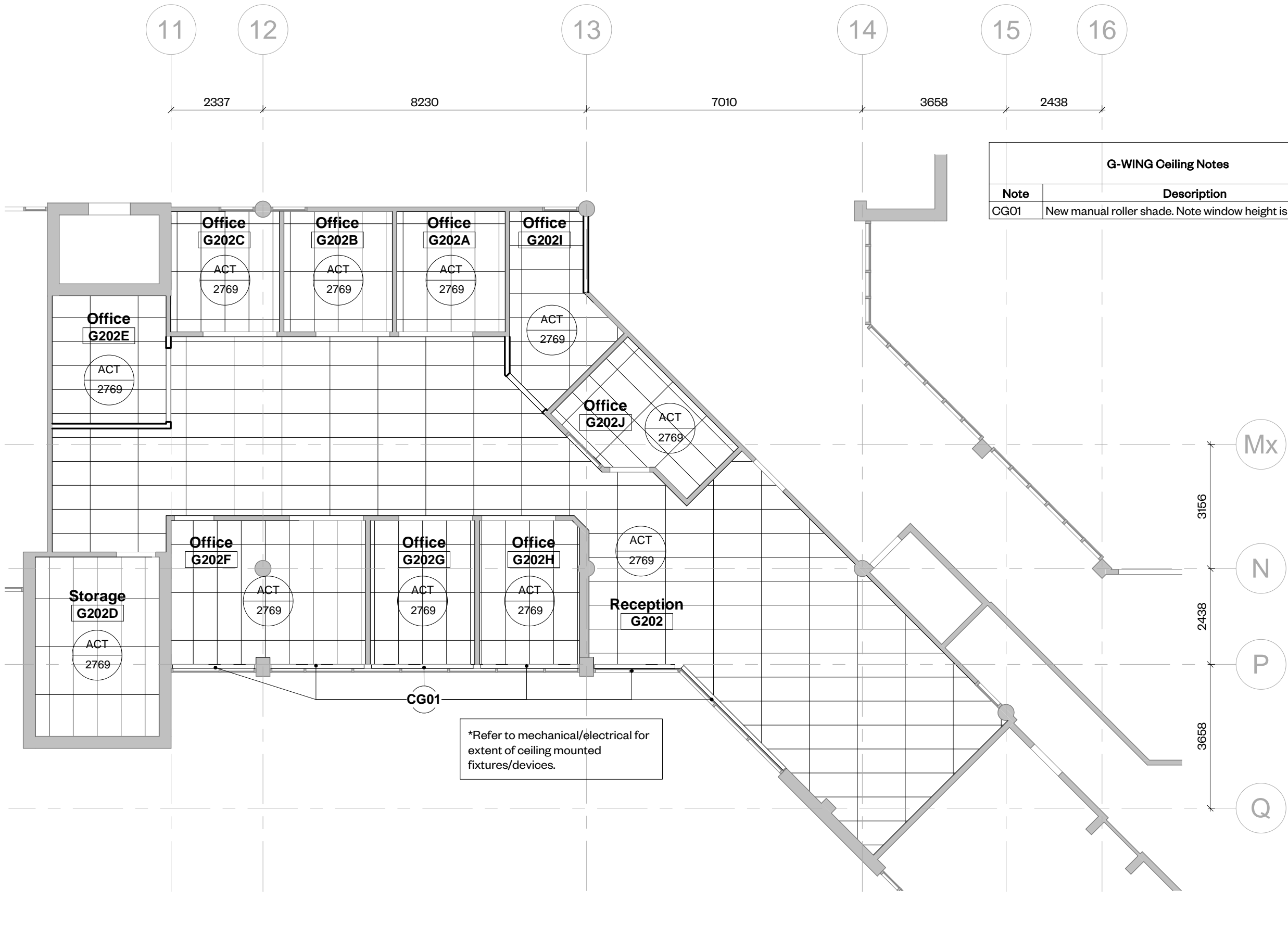
1 G WING Level 02 - Demolition Plan
1 : 100



4 G WING Level 02 - Proposed
1 : 100



2 G WING Level 02 - Demolition RCP
1 : 100



5 G WING Level 02 - Proposed RCP
1 : 100



SCHEDULE	
SERIES	REMARKS
1, 2, 3	NAILOR MODEL RNSA 24"x24" (T-BAR CEILING) C/W O.B. DAMPER, LOUVER FACE DIFFUSER - STEEL CONSTRUCTION
1, 2, 3	NAILOR, MODEL 80/TB/B12 (T-BAR CEILING) ½"x ½"x ½" EGGCRATE GRILLE WITH CHANNEL FRAME - ALUMINUM CONSTRUCTION

GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECT'S, INTERIOR DESIGNER, AND MECHANICAL DRAWINGS FOR LOCATION OF ALL LUMINAIRES, SWITCHES, DEVICES, OUTLETS, FURNITURE FEEDING POINTS, DIMENSIONS, MOUNTING HEIGHTS, AND CONSTRUCTION DETAILS.
2. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR ON DRAWING THAT EQUIPMENT AND MATERIALS BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
3. ALL SLAB OPENINGS WILL BE X-RAYED AND REVIEWED WITH LANDLORD AND BASE BUILDING STRUCTURAL CONSULTANT. CONTRACTOR SHALL X-RAY THE FLOOR AND SUBMIT TO BASE BUILDING STRUCTURAL ENGINEER FOR WRITTEN APPROVAL AT LEAST 72 HOURS PRIOR TO ANY CORE DRILLING ON THE BUILDING. THE CONTRACTOR SHALL INCLUDE THE COST OF STRUCTURAL ENGINEER, COORDINATE ALL CORE DRILLING WITH LANDLORD'S SITE REPRESENTATIVE AND TENANT. ALL NOISY WORK SHALL BE PERFORMED AFTER HOURS.
4. ALL OPENINGS IN BUILDING RISER, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER BUILDING AND FIRE CODE.
5. COORDINATE WITH THE CLIENT TO CONFIRM EQUIPMENT OR SYSTEMS/DEVICES TO REMAIN.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT.
7. ALL INSTALLATIONS WITHIN EXISTING AREAS SHALL BE COORDINATED WITH OWNER AND BASE BUILDING MANAGEMENT. INSTALLATION MUST BE PERFORMED IN A MANNER TO ELIMINATE ANY INTERFERENCES TO STAFF AND NORMAL OPERATION OF THE FACILITY.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
10. DUCT DIMENSIONS AND FLOWS ON DRAWINGS ARE EXPRESSED IN S.I. UNITS.
11. PIPING AND PLUMBING DIMENSIONS ON DRAWINGS ARE EXPRESSED IN I.P. UNITS.

VARIABLE VOLUME					
TAG	UNIT SIZE	INLET DIA. MM	MFG.	MODEL	DESIGN AIR FLOW (CFM)
VAV-A	8	200Ø	E.H. PRICE	SDV-5000	450
VAV-B	6	150Ø	E.H. PRICE	SDV-5000	250

NOTE:
 1. ALL TERMINAL BOXES TO BE PRESSURE INDEPENDENT.
 2. BOXES SIZE 8 TO BE C/W 900mm LONG INTEGRAL SOUND ATTENUATOR.
 3. BOXES AND ATTENUATOR TO BE SUPPLIED BY THE CLIENT.
 4. MINIMUM VAV S/A SHA 100mm

MECHANICAL DRAWING LIST		
Page	DWG #	TITLE/ DESCRIPTION
1	M-001	LEGEND, DETAILS, SCHEDULES & DRAWING LIST
2	M-002	SPECIFICATIONS
3	M-100	JW-WING : FIRE PROTECTION DEMOLITION AND NEW WORK PLAN
4	M-101	JW-WING : HVAC DEMOLITION AND NEW WORK PLAN
5	M-110	G-WING : FIRE PROTECTION DEMOLITION AND NEW WORK PLAN
6	M-300	MECHANICAL ZONING
7	M-400	DETAILS
8	M-500	CONTROLS

FIT SCHEDULE	
DISCHARGE DUCT SIZE (UNLESS NOTED OTHERWISE) MMxMM	REMARKS
REFER TO PLAN	
REFER TO PLAN	
DO NOT BE C/W 25mm ACOUSTIC LINING. SET @ 20% OF MAXIMUM.	

Rev	Description	Date
01	ISSUED FOR PERMIT & TENDER	22.04.20



2000 Simcoe Street North
Oshawa, Ontario

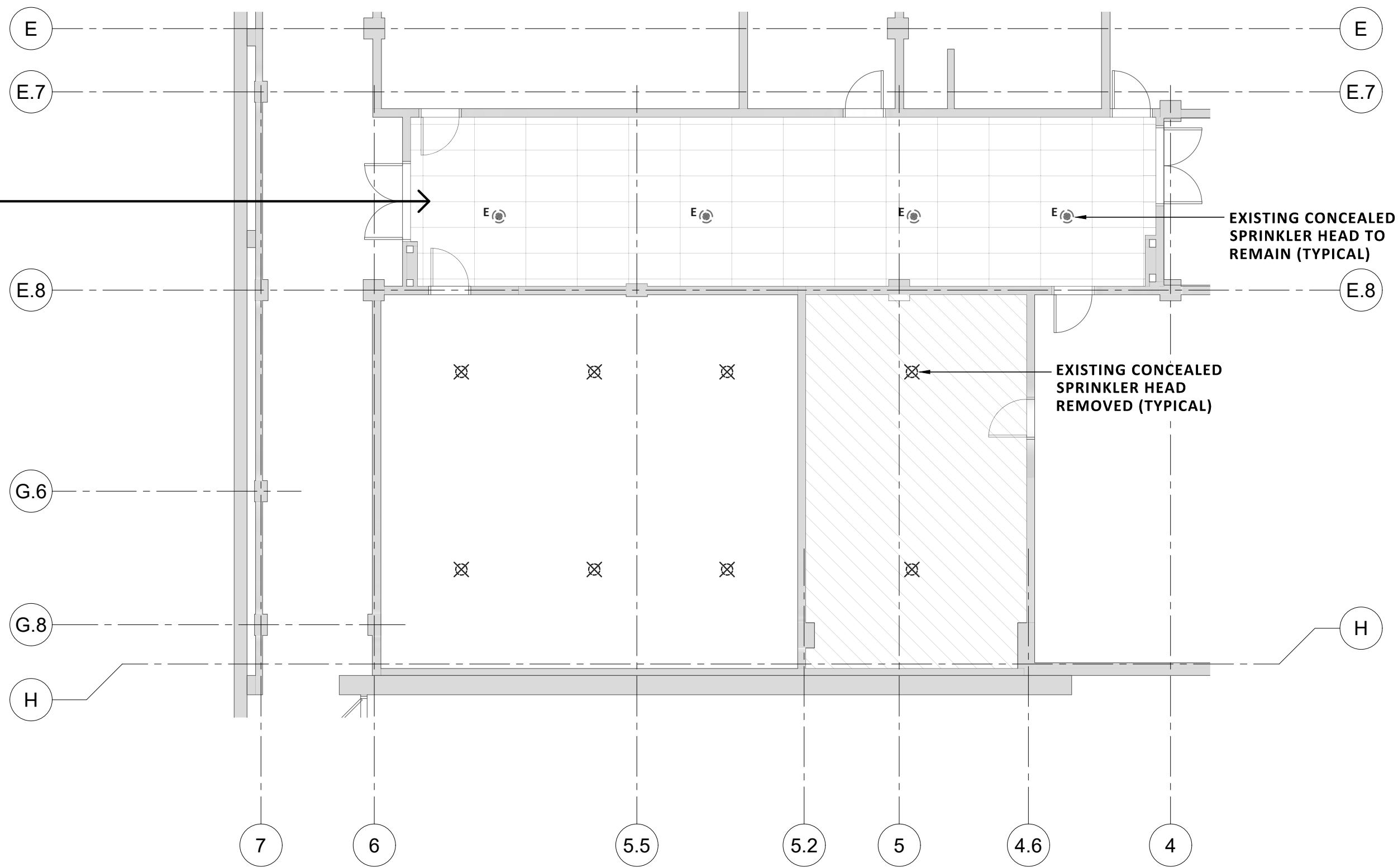
PROJECT CODE:	SCALE:
<u>21046.2</u>	As indicated
DATE:	STATUS:
September 2021	-

drawing number

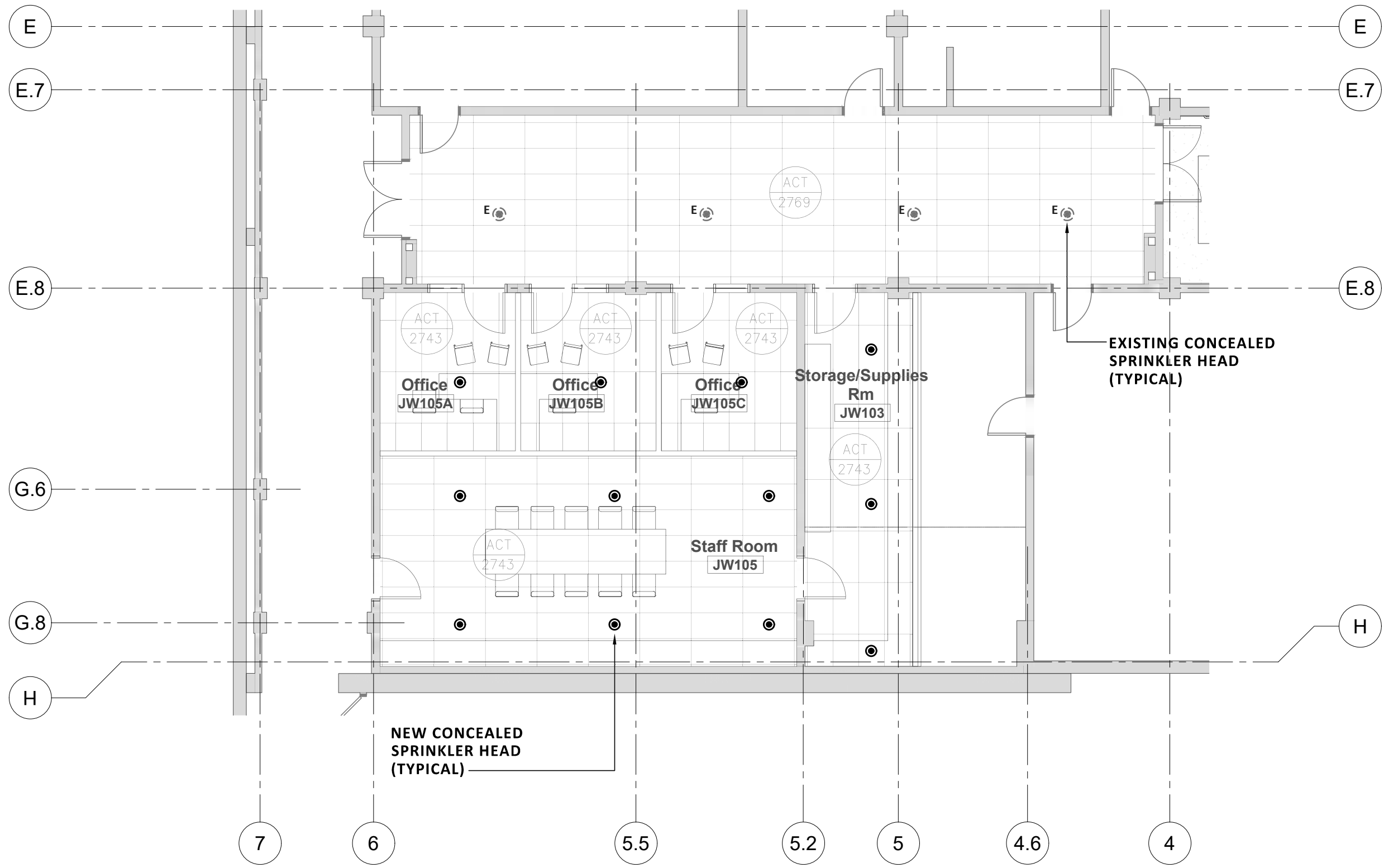
M-001



EXISTING
CORRIDOR



1 JW-WING LEVEL 01 : FIRE PROTECTION DEMOLITION PLAN
M-100 SCALE: 1:100

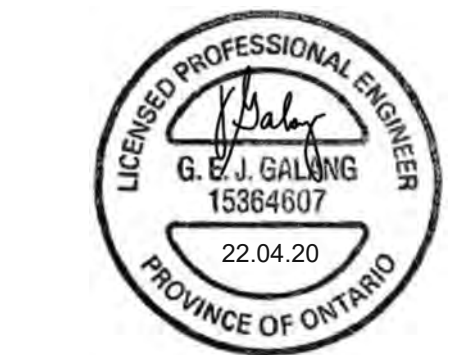
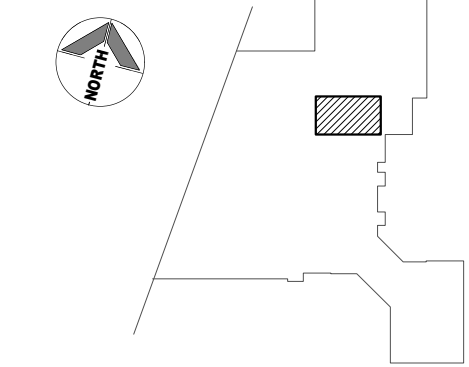


2 JW-WING LEVEL 01 : NEW WORK FIRE PROTECTION PLAN
M-100 SCALE: 1:100

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Key Plan



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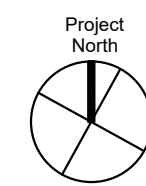
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Oshawa, Ontario

PROJECT CODE:	SCALE:
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JW-Wing Level 1 Fire Protection Plan



drawing number

M-100

PICTURES

1.1

2.0 JW/G WING MECHANICAL ROOM & ROOF TOP UNITS DATA:



2.1 RTU NAMEPLATE
UNIT BY : LENNOX



2.2 RTU LENNOX



2.3 EXHAUST (LOREN CODE) SERVING PEPPER
SPRAY TRAINING ROOM



2.4 LOREN CODE PEPPER SPRAY TRAINING
ROOM NAME PLATE DATA

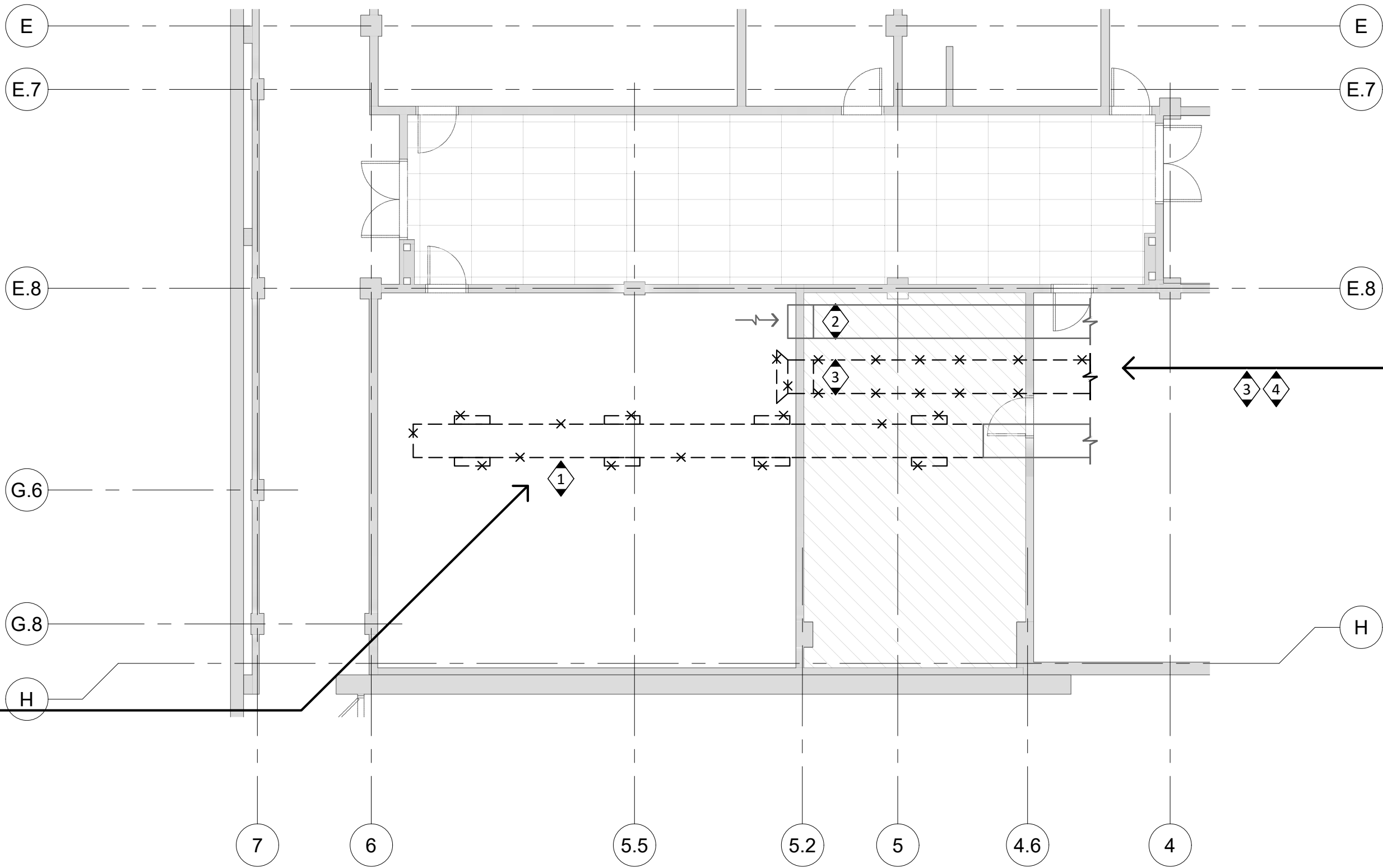
VARIABLE VOLUME UNIT SCHEDULE						
TYPE	UNIT SIZE	DESIGN AIR FLOW (CFM)	MFG.	MODEL	DISCHARGE DUCT SIZE (UNLESS NOTED OTHERWISE) MMxMM	REMARKS
A	5"	250	NAILOR	3000 SERIES	REFER TO FLOOR PLAN	
B	7"	400-475	NAILOR	3000 SERIES	REFER TO FLOOR PLAN	
C	8"	600-700	NAILOR	3000 SERIES	REFER TO FLOOR PLAN	
NOTE: 1. ALL TERMINAL BOXES TO BE PRESSURE INDEPENDENT. 2. BOXES SIZE 8 TO BE C/W 900mm LONG INTEGRAL SOUND ATTENUATOR. 3. BOXES SIZE 12 & UP TO BE C/W 1500mm LONG INTEGRAL SOUND ATTENUATOR. 4. BOXES AND ATTENUATORS TO BE C/W 25mm ACOUSTIC LINING. 5. SET VAV BOXES MINIMUM @ 20%						

NOTES:

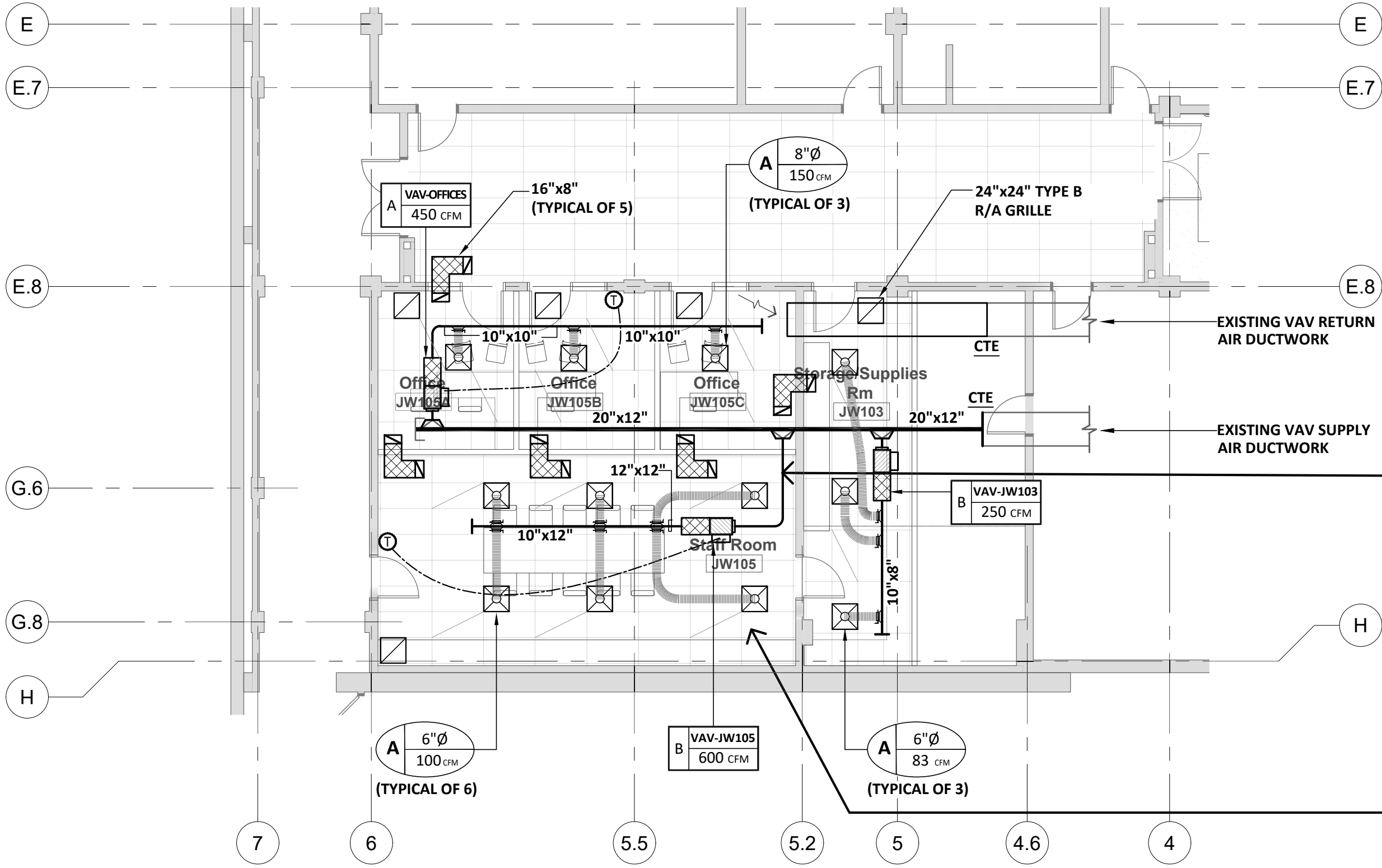
- EXISTING DUCT MOUNTED SUPPLY AIR DIFFUSER & ASSOCIATED DUCTWORK TO BE DELETED.
- EXISTING VAV RETURN DUCTWORK TO REMAIN.
- EXISTING EXHAUST FAN SYSTEM TO BE DELETED IN IT'S ENTIRETY - FROM THE EXISTING TRAINING ROOM TO THE FAN IN THE MECHANICAL ROOM TO THE OUTSIDE PLENUM. MAKE GOOD ON ALL CONNECTIONS AFFECTED BY THE REMOVAL.
- EXISTING EXHAUST SYSTEM TO BE DEMOLISHED FROM THIS ROOM & OUTSIDE LOUVER. CONNECTION TO OUTSIDE LOUVERS TO BE BLANKED OFF, INSULATED, WEATHERPROOFED & MADE GOOD TO SUIT EXISTING PLENUM.
- PROVIDE AIR AUDIT FOR THE ENTIRE EXISTING VAV SYSTEM PRIOR TO DEMOLITION. ALL OTHER SYSTEM BRANCHES SHALL BE MAINTAINED AT FINAL COMMISSIONING, ADJUST THE MAIN AHU TO ACCOMMODATE 5 VAV SYSTEMS AS SHOWN.



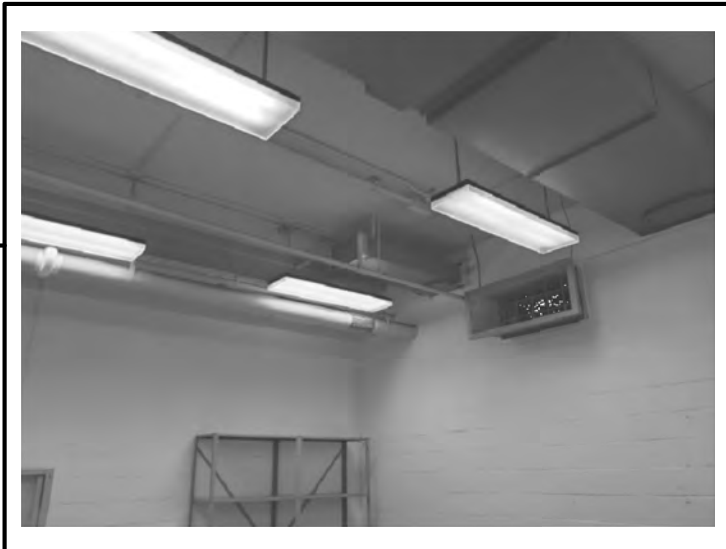
EXISTING SPACE SHOWING DUCTWORK
TO BE DEMOLISHED



1 JW-WING LEVEL 01 : HVAC DEMOLITION PLAN
SCALE: 1:100



2 JW-WING LEVEL 01 : NEW WORK HVAC PLAN
SCALE: 1:100



EXISTING ROOM EXHAUST
AND SUPPLY DUCT

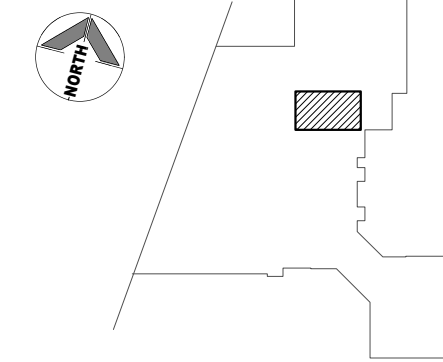


EXISTING ROOM EXHAUST
AND SUPPLY DUCT

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Key Plan



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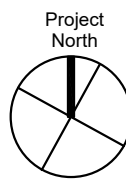
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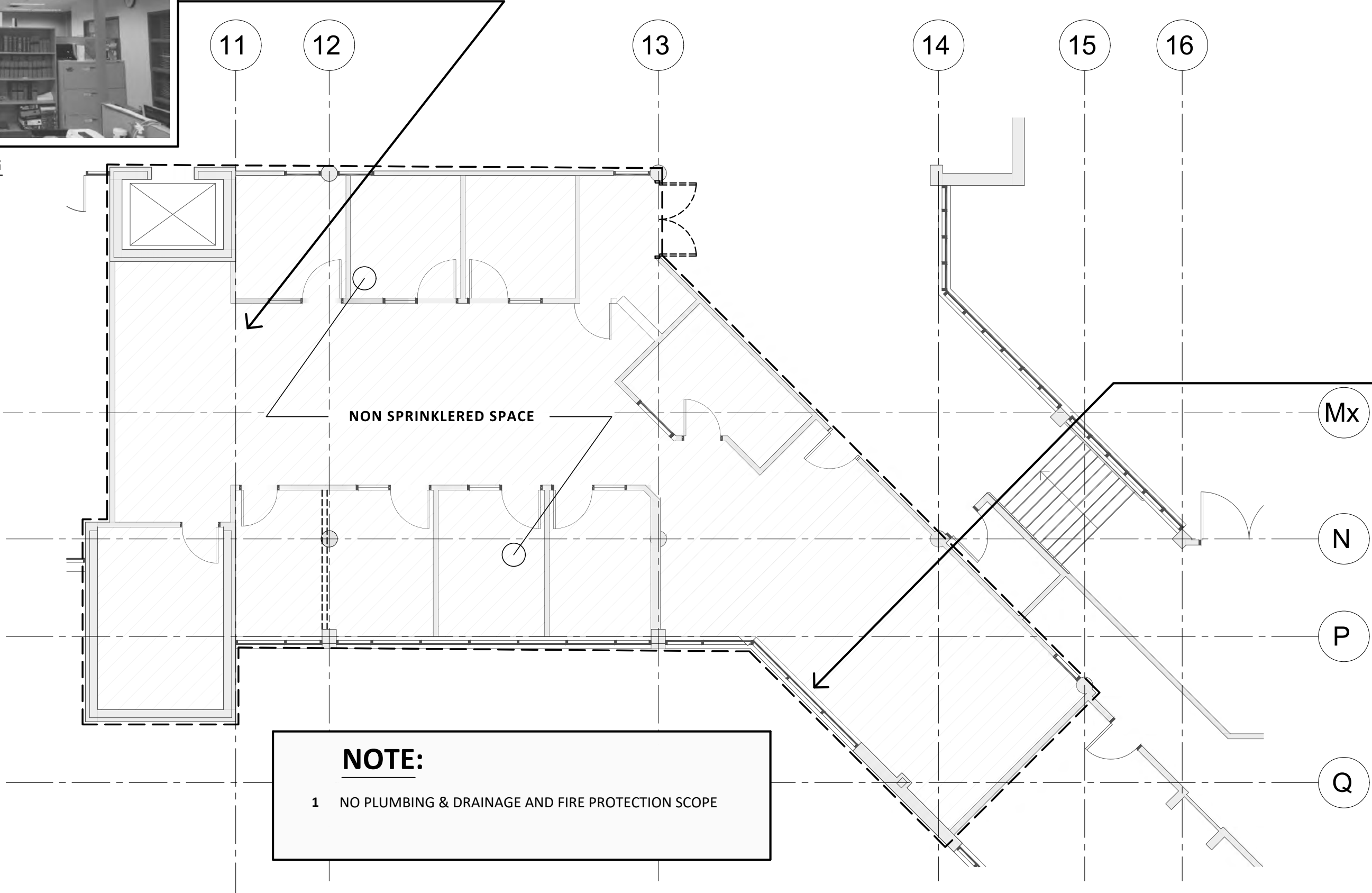
PROJECT CODE: 21046_2
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JW-Wing Level 1
HVAC Plan



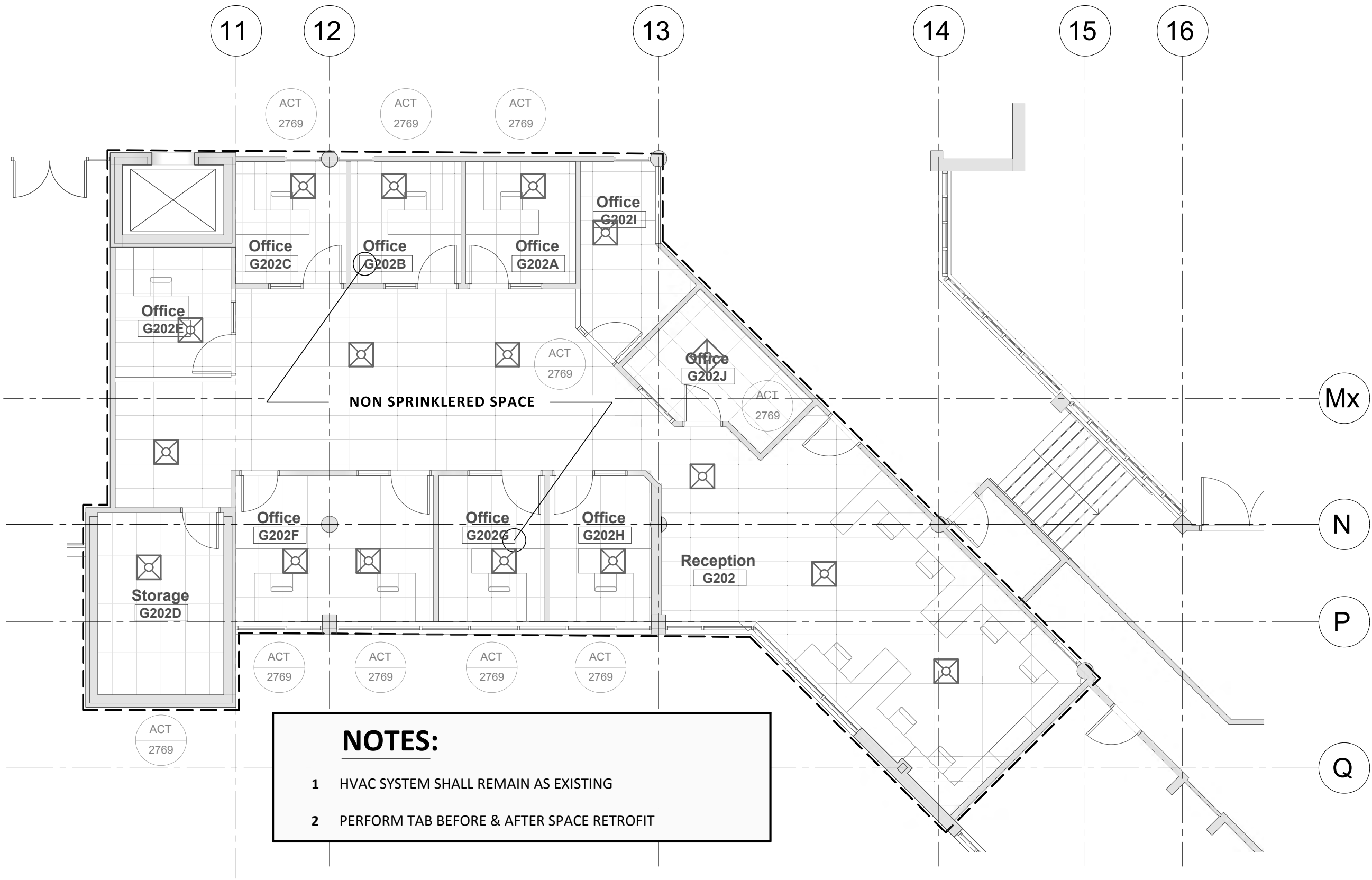


EXISTING SPACE



EXISTING HOT WATER PERIMETER HEATERS

1 G-WING LEVEL 02 : FIRE PROTECTION, PLUMBING & DRAINAGE DEMOLITION PLAN
SCALE: 1:100

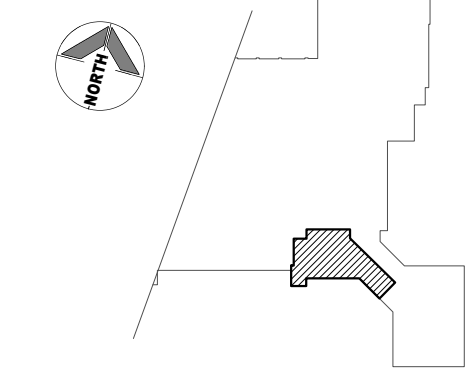


2 G-WING LEVEL 02 : NEW WORK FIRE PROTECTION, PLUMBING & DRAINAGE PLAN
SCALE: 1:100

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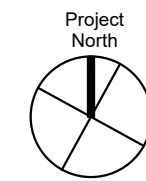
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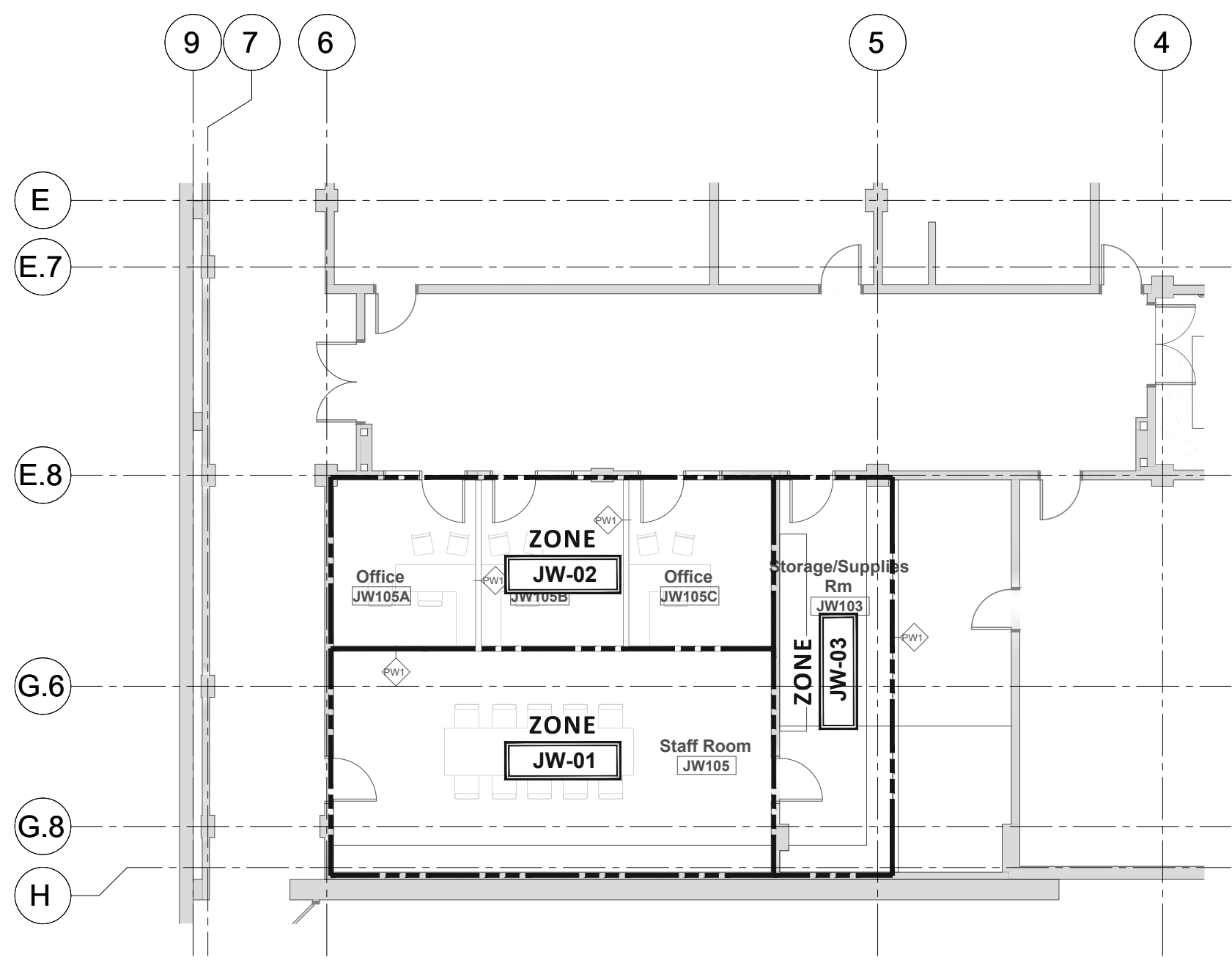
G-Wing Level 2 Fire Protection, Plumbing & Drainage Plan



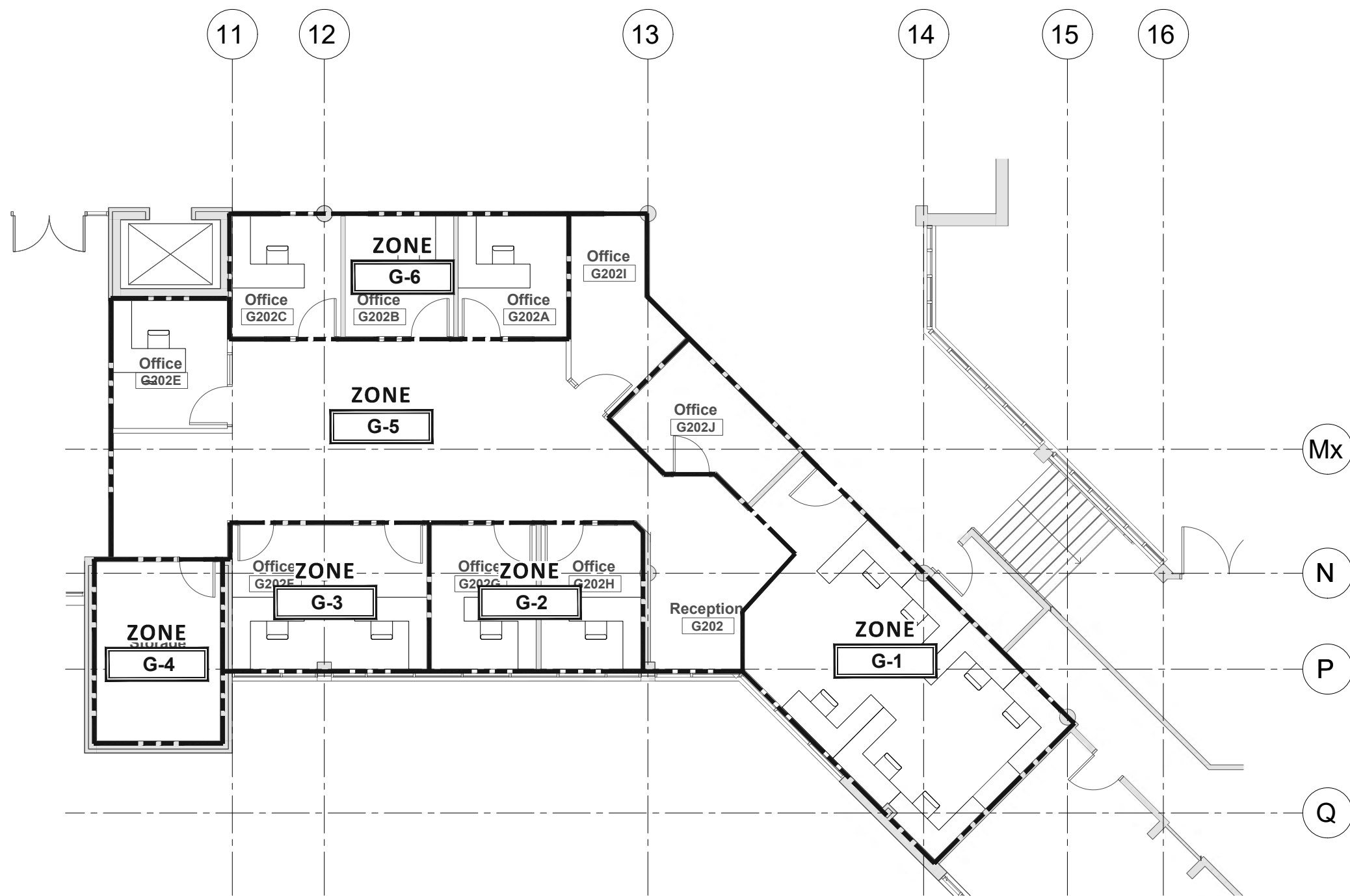
drawing number

M-110

Rev	Description	Date
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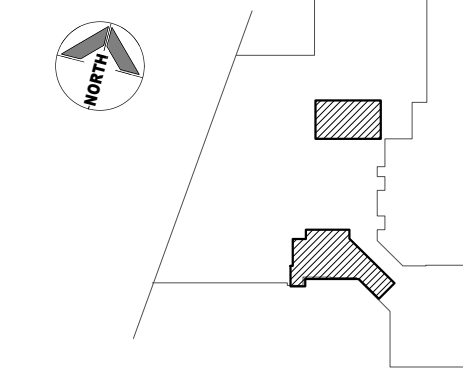


2 JW WING : LEVEL 01 ZONING
M-300 SCALE: 1:125



3 G WING : LEVEL 02 ZONING
M-300 SCALE: 1:125

Key Plan



WORKSHOP

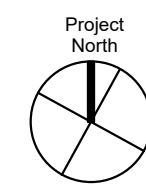
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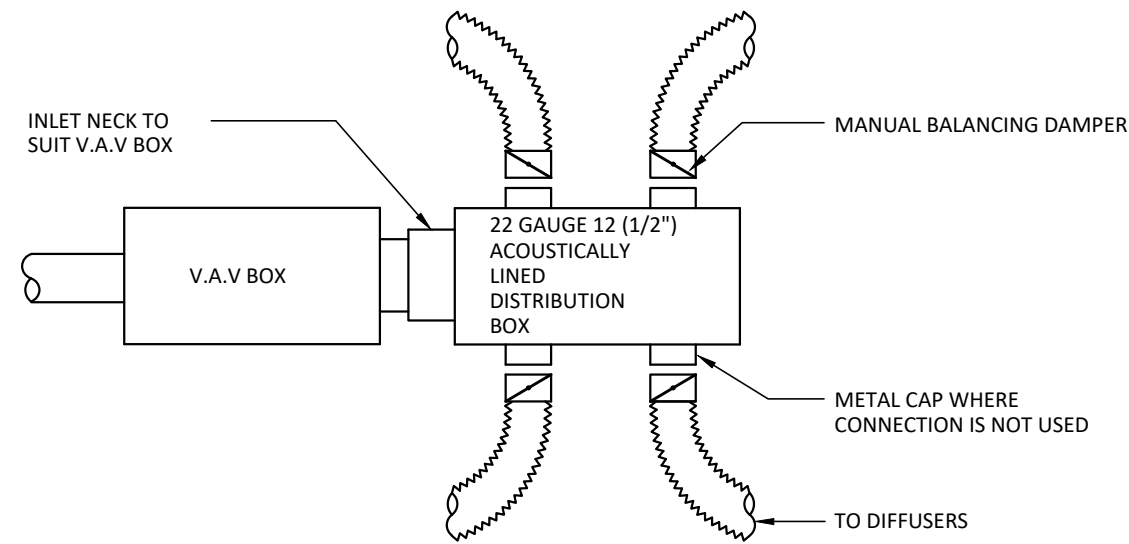
PROJECT CODE:	SCALE:
21046_2	As indicated
DATE:	STATUS:
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Mechanical Zoning



drawing number

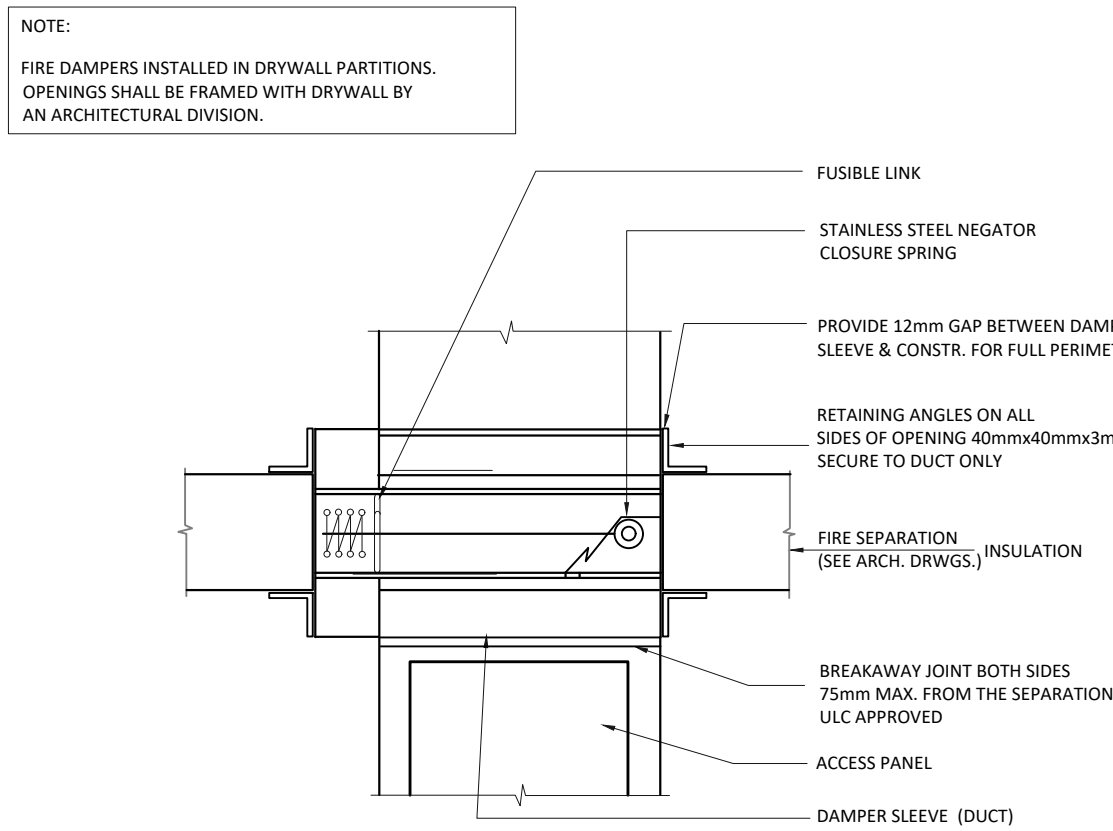
M-300



4
M-400

TYPICAL V.A.V. DISTRIBUTION BOX

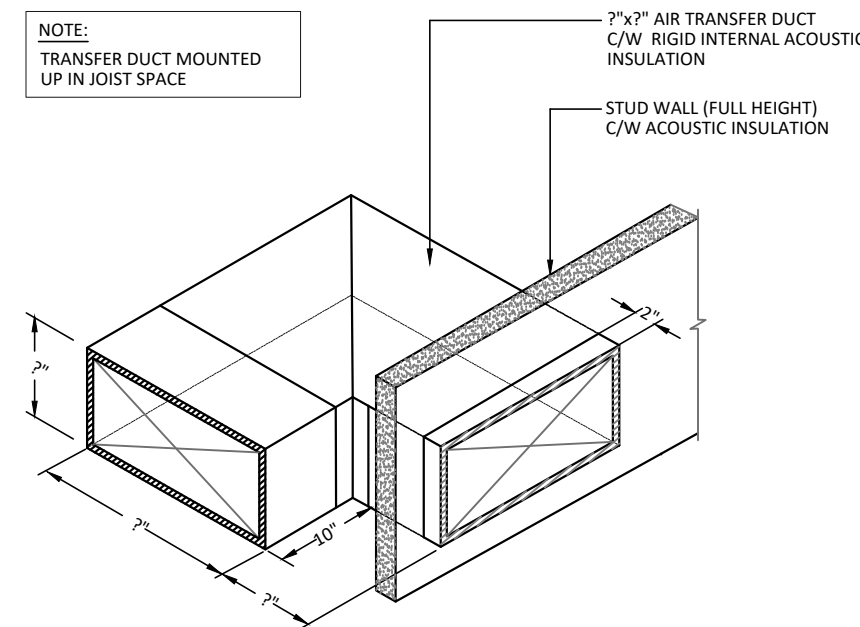
SCALE: N.T.S.



3
M-400

FIRE DAMPER (THRU. FLOOR)

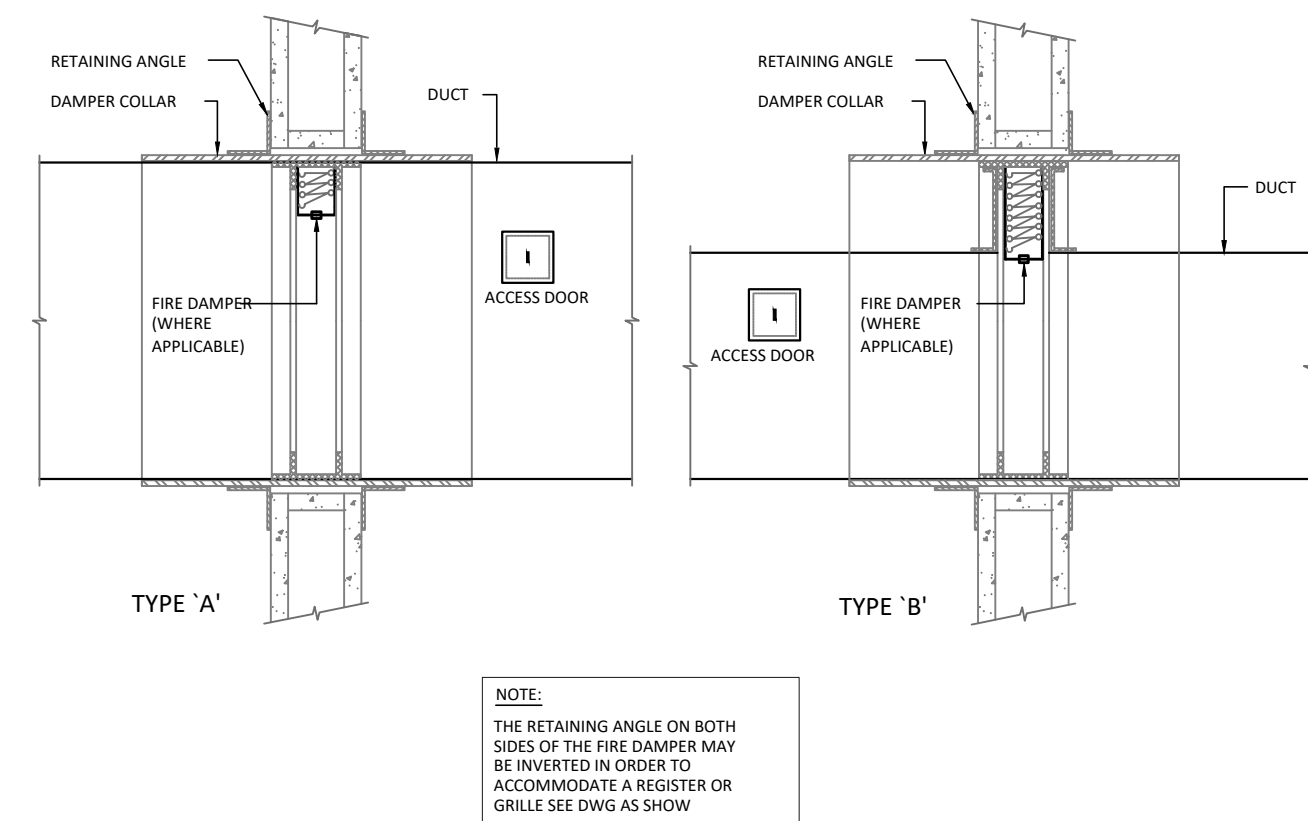
SCALE: N.T.S.



2
M-400

TRANSFER AIR DUCT DETAIL

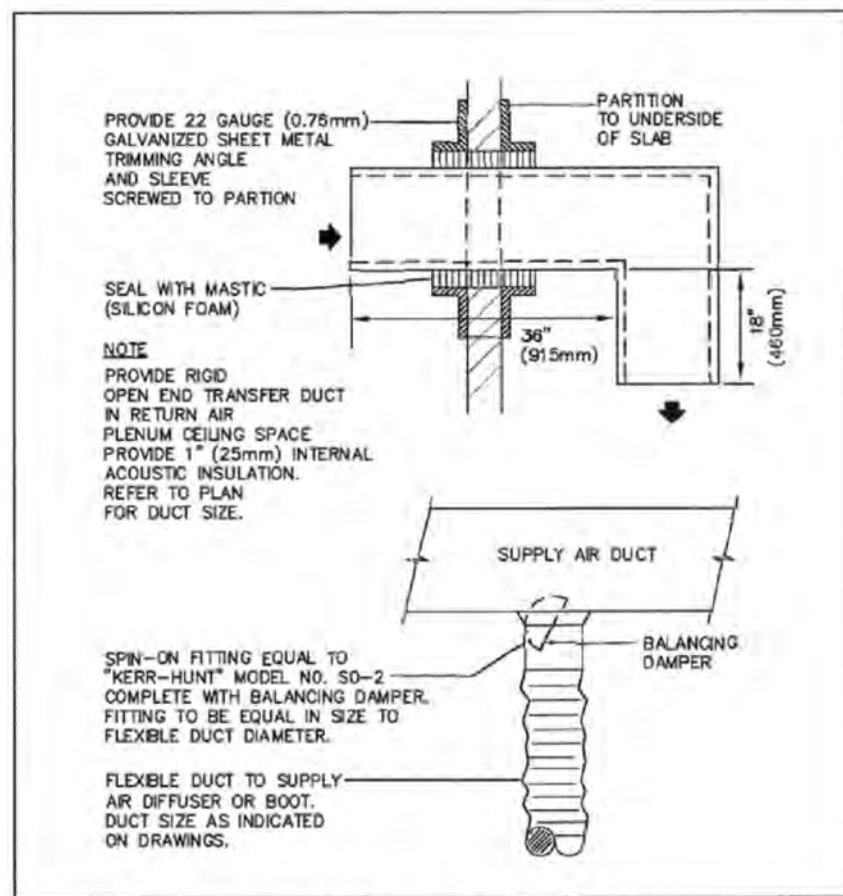
SCALE: N.T.S.



1
M-400

FIRE DAMPER DETAIL

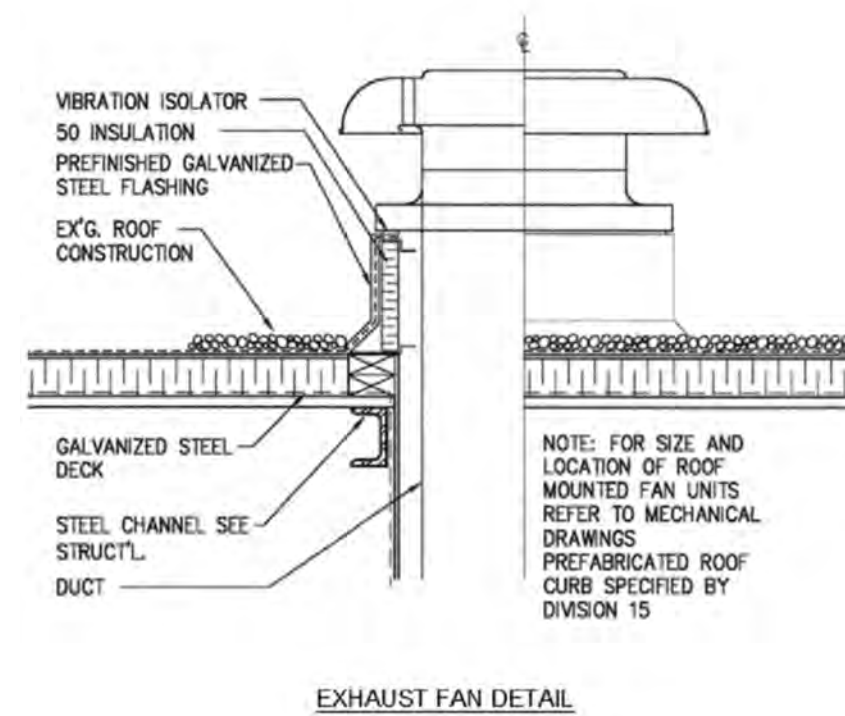
SCALE: N.T.S.



8
M-400

TYPICAL TRANSFER DUCT & SPIN-ON FITTING

SCALE: N.T.S.



7
M-400

EXHAUST FAN DETAIL

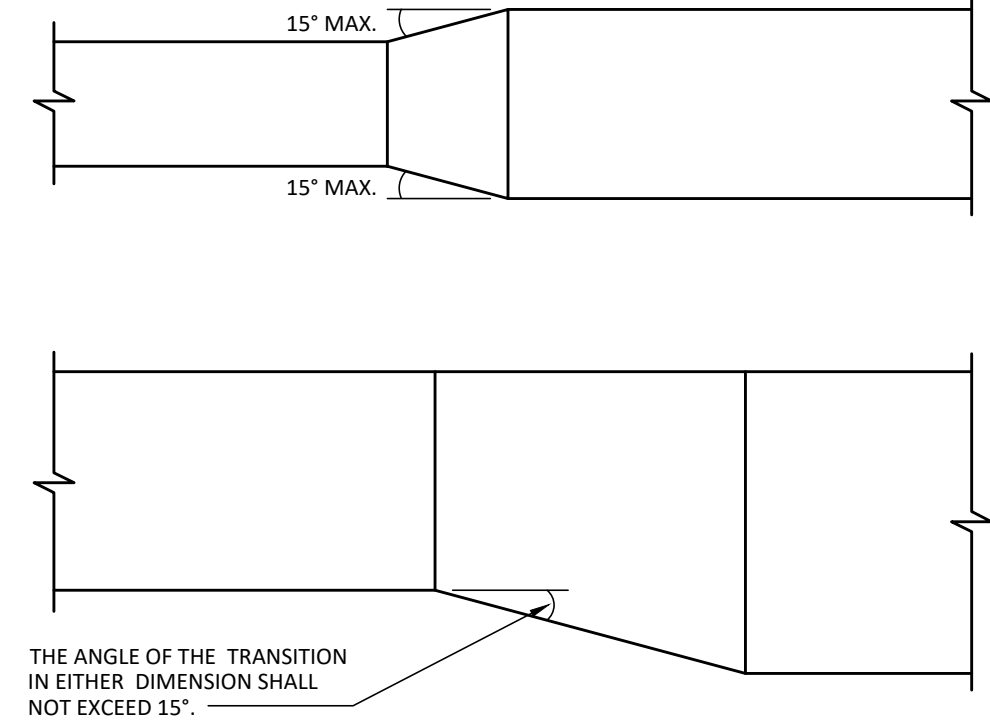
SCALE: N.T.S.

THERMAL INSULATION SCHEDULE				
SERVICE	LOCATION	THICKNESS	VAPOUR BARRIER	COVERING
DOMESTIC COLD WATER	EXPOSED	25mm	YES	CANVAS WRAP
	CONCEALED	25mm	YES	ASJ
	EXPOSED	50mm	NO	CANVAS WRAP
STEAM & CONDENSATE	CONCEALED	50mm	NO	CANVAS WRAP
	EXPOSED	25mm	YES	CANVAS WRAP
SUPPLY AIR DUCTWORK INCLUDING FRESH AIR DUCTWORK ABOVE CEILING	CONCEALED	25mm	N/A	RFRK FACED
	EXPOSED	25mm	N/A	CANVAS WRAP
RETURN AIR DUCTWORK - IN MECH. ROOM & NON CONDITIONED AREAS	CONCEALED	25mm	N/A	RFRK FACED
	EXPOSED	25mm	NO	CANVAS WRAP
HUMIDIFIER STEAM DISPERSION AND DRAIN PIPING	EXPOSED	25mm	NO	ASJ
	CONCEALED	25mm	NO	CANVAS WRAP
	EXPOSED	25mm	YES	CANVAS WRAP
SAN. DRAIN LINES	CONCEALED	25mm	YES	ASJ
	EXPOSED	25mm	YES	CANVAS WRAP
COLD EQUIPMENT DRAIN	CONCEALED	25mm	YES	ASJ
	EXPOSED	25mm	YES	CANVAS WRAP
REFRIGERANT PIPING	CONCEALED	25mm	YES	ASJ
	REFER TO REFRIGERANT PIPING IN SPEC. ON M1 FOR ADDITIONAL INFO			
SEE SPECIFICATIONS ON DRAWING M2 FOR ADDITIONAL INFORMATION ON THERMAL INSULATION				

6
M-400

THERMAL INSULATION

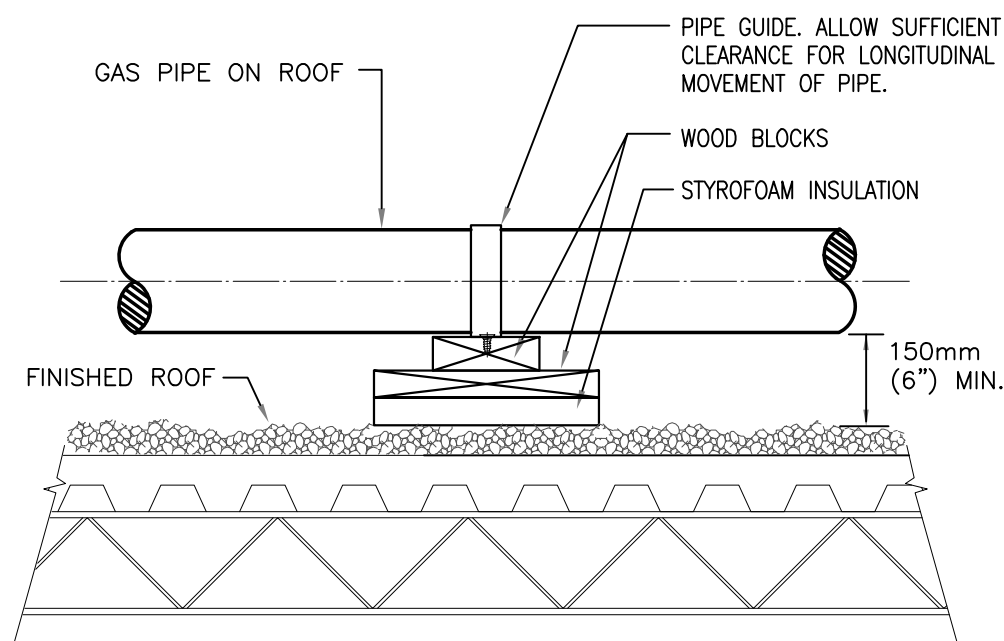
SCALE: N.T.S.



5
M-400

DUCT TRANSITION DETAIL

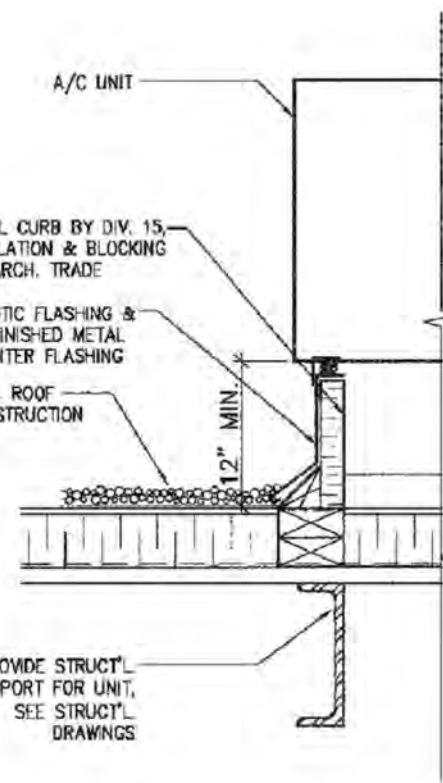
SCALE: N.T.S.



11
M-400

GAS PIPING SUPPORT DETAIL

SCALE: N.T.S.

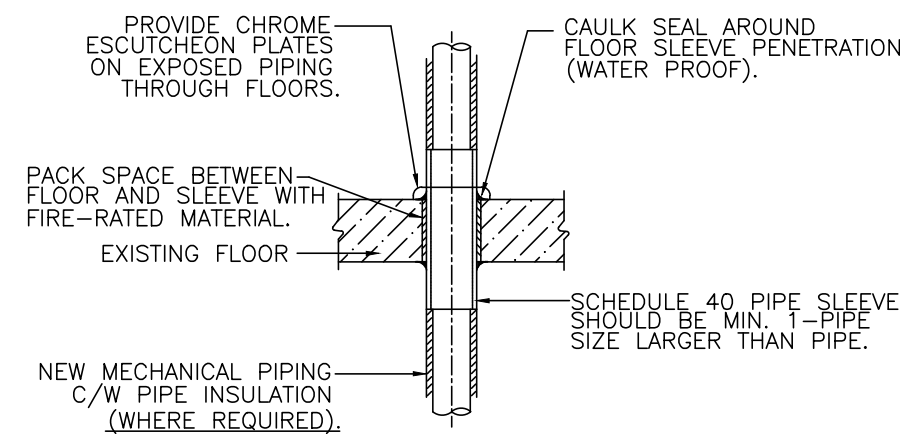


10
M-400

ROOF MOUNTING CURB DETAIL

SCALE: N.T.S.

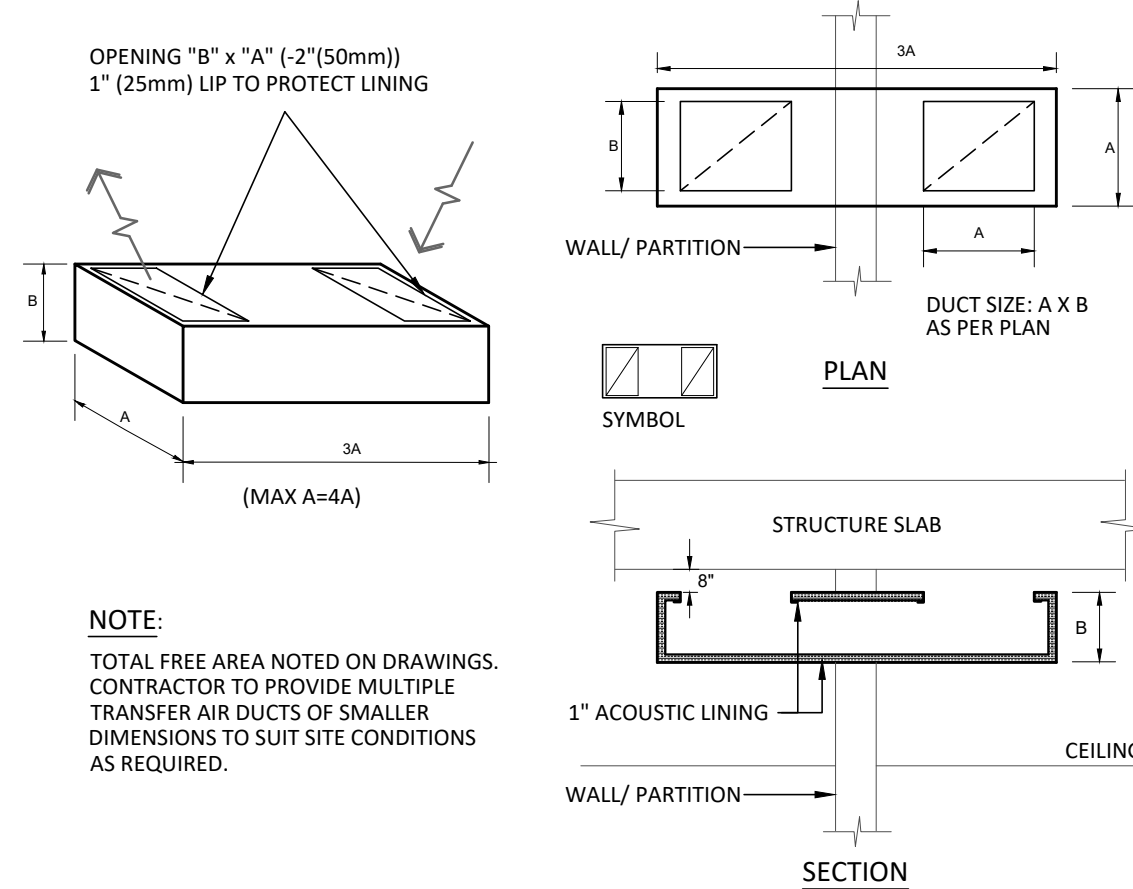
NOTES: 1. SEE SPECIFICATIONS ON M1 & M2.
2. PIPE SLEEVES LARGE ENOUGH TO ALLOW INSULATION (WHERE REQUIRED) TO PASS THROUGH UNBROKEN.



9
M-400

PIPE SLEEVE THROUGH SLAB

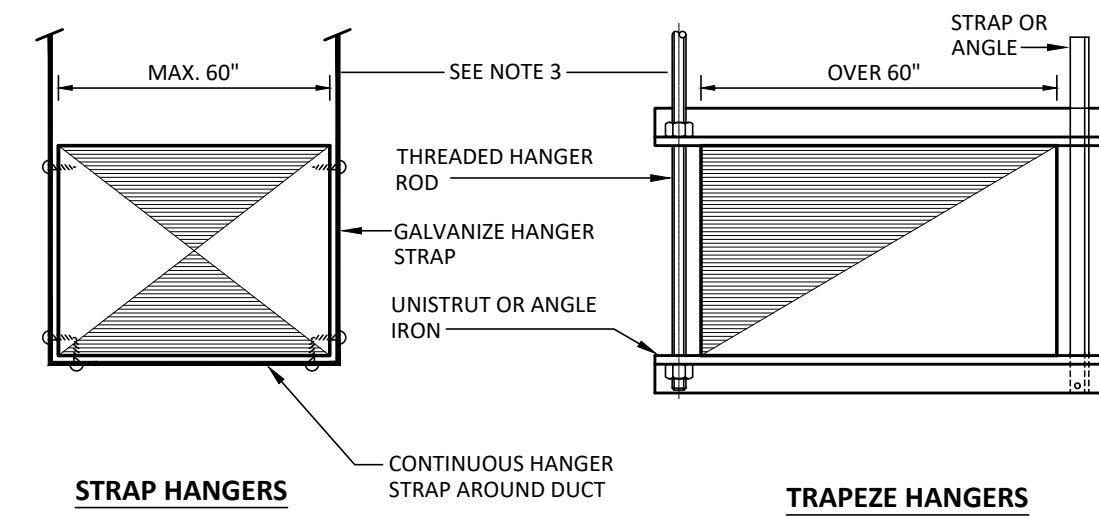
SCALE: N.T.S.



13
M-400

TRANSFER AIR DUCT DETAIL

SCALE: N.T.S.



NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.
4. REFER TO SMACNA FOR SPECIFIC RECOMMENDED HANGER TYPES NOTED ABOVE.

12
M-400

DUCT HANGER SUPPORT DETAIL

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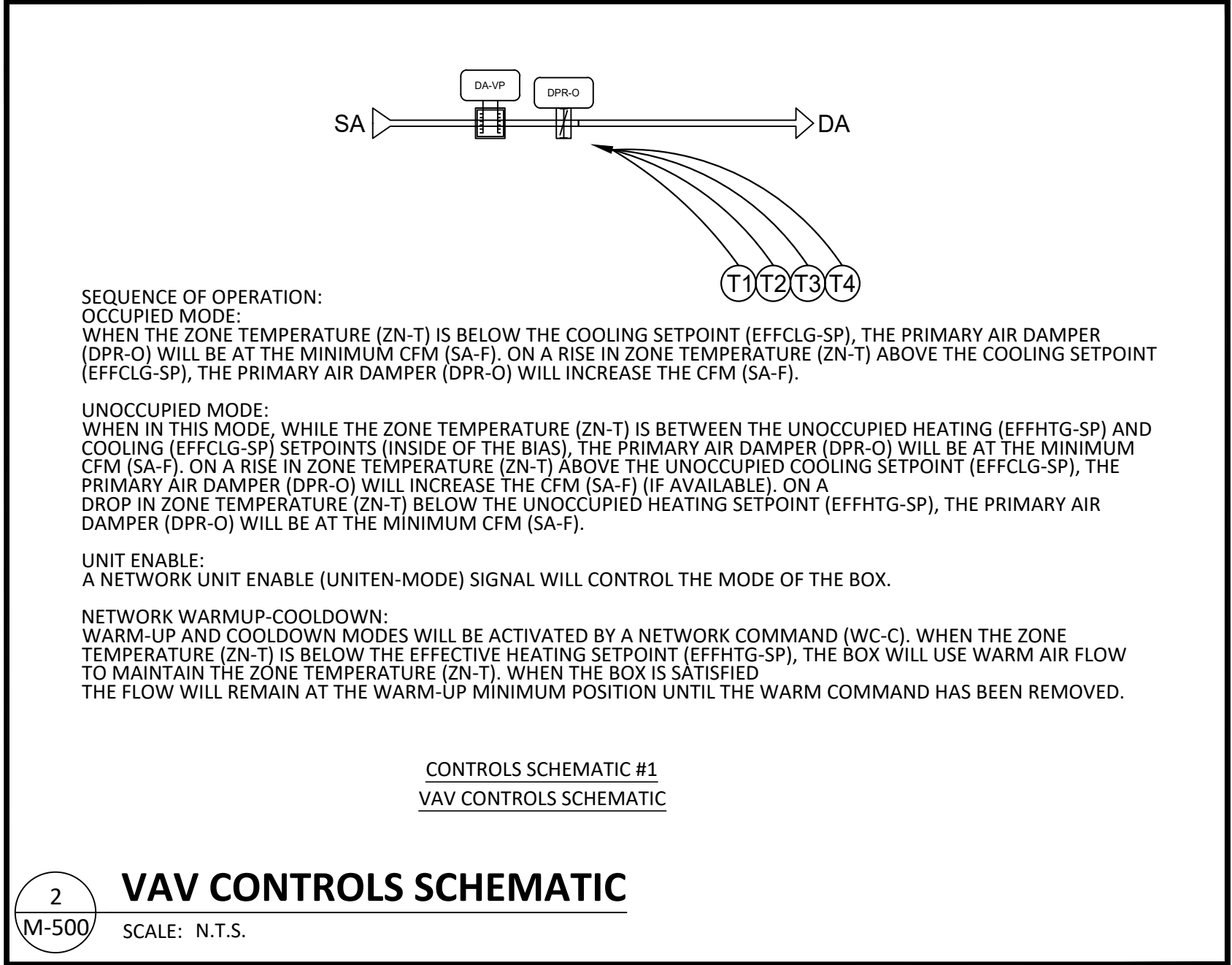
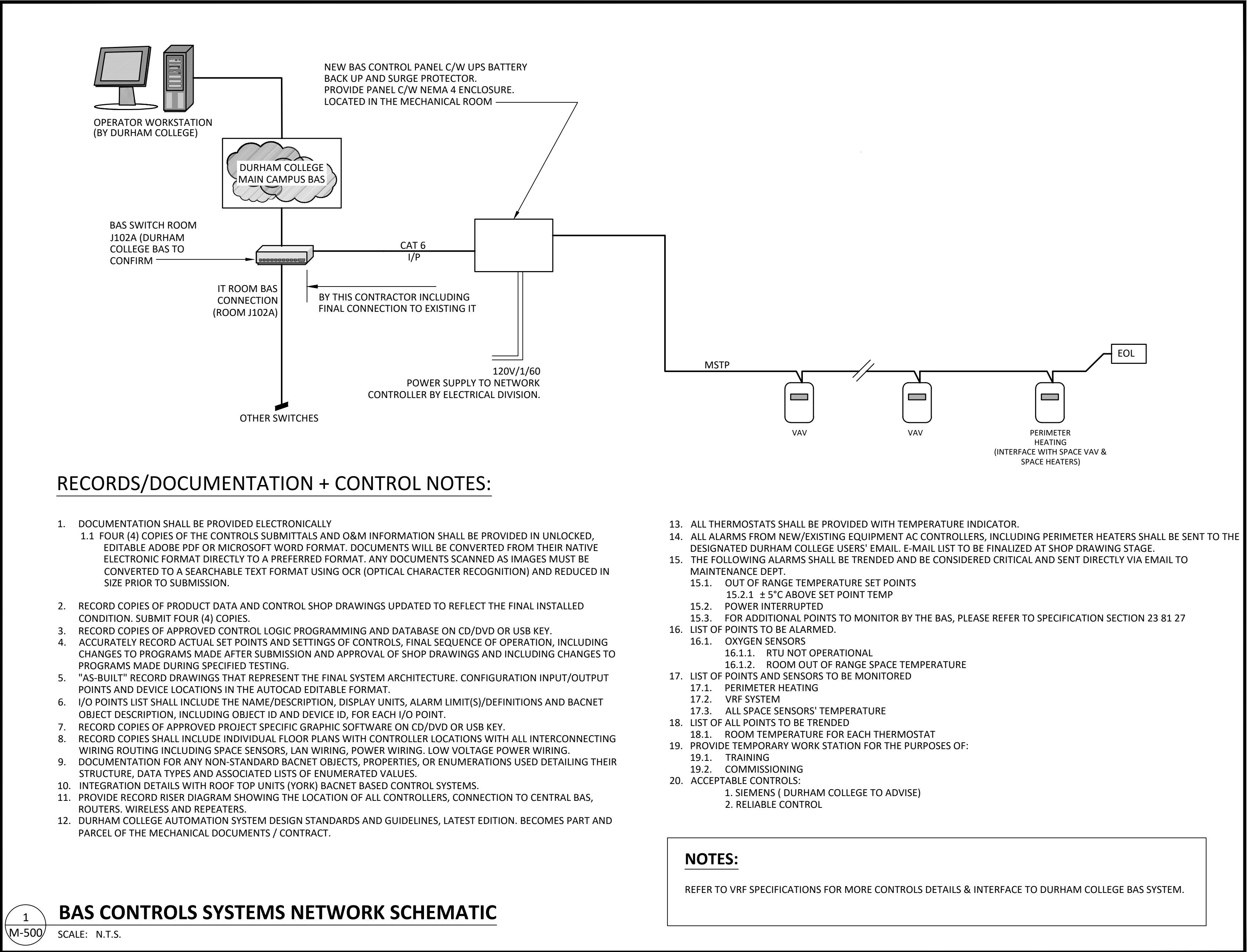
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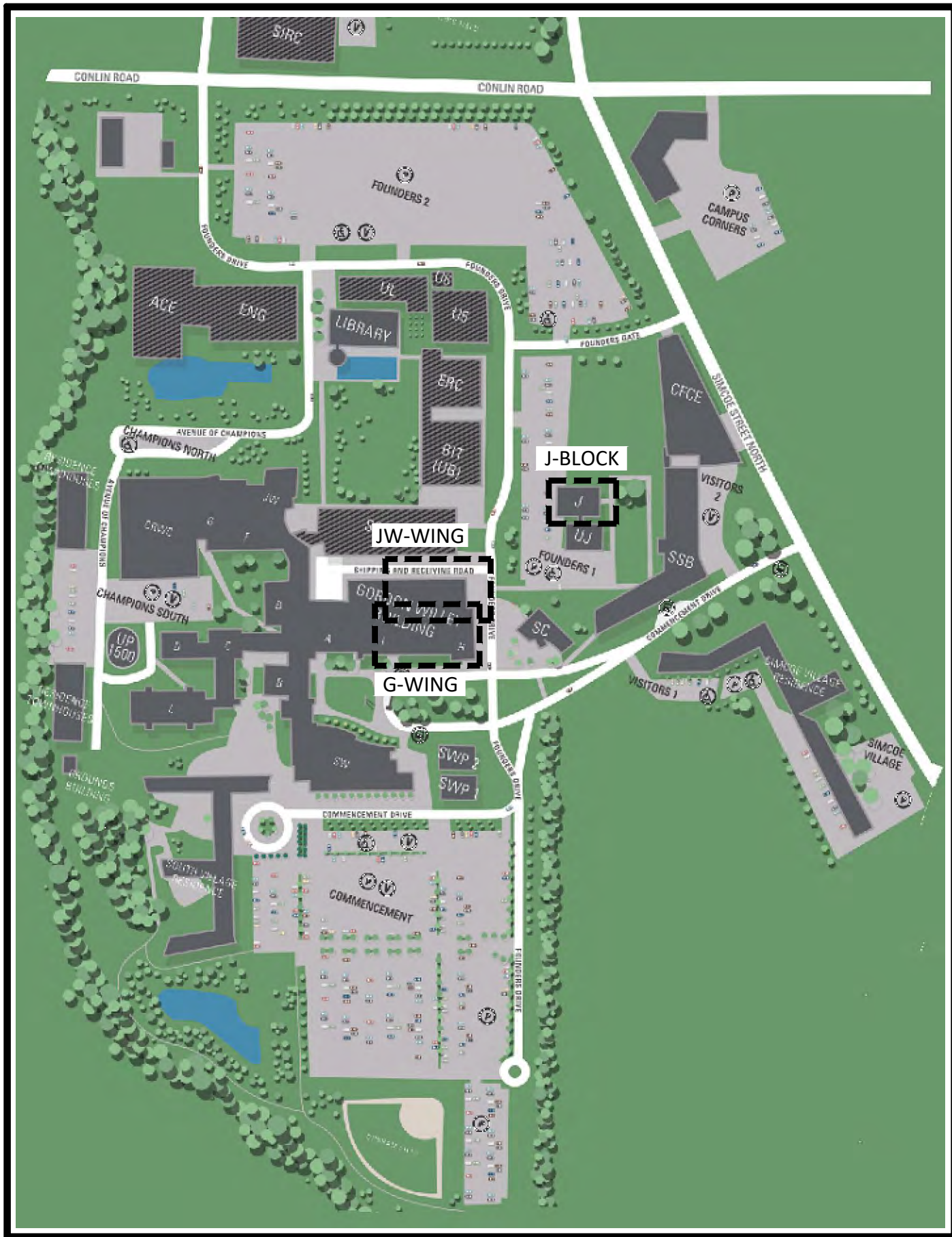
Controls

drawing number

M-500



1 SITE KEY PLAN - 2000 SIMCOE ST. N.
E-001 N.T.S



2 CAMPUS MAP
E-001 N.T.S

SYMBOL	DESCRIPTION
LIGHTING	
TYPICAL LUMINAIRE NOMENCLATURE: F01 - DENOTES LUMINAIRE TYPE 'NL' - DENOTES NIGHT LIGHT 2-28.1 - DENOTES CIRCUIT NUMBER (PREFIX 'E' IN CIRCUIT NUMBER DENOTES EMERGENCY PANEL) 2 - DENOTES PANELBOARD NUMBER 28 - DENOTES CIRCUIT NUMBER .1 - DENOTES SWITCH NUMBER	
DESIGNATIONS FOR LUMINAIRE TYPES: C - COMPACT FLUORESCENT F - FLUORESCENT H - METAL HALIDE M - MERCURY VAPOUR S - HIGH PRESSURE SODIUM T - INCANDESCENT X - EXIT SIGN B - EMERGENCY LIGHTING BATTERY PACK	
	CEILING OR PENDANT MOUNTED LUMINAIRE
	CEILING OR PENDANT MOUNTED LUMINAIRE ON EMERGENCY CIRCUIT
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE ON EMERGENCY CIRCUIT
	POLE MOUNTED LUMINAIRE
	CEILING OR PENDANT MOUNTED FLUORESCENT LUMINAIRE
	CEILING OR PENDANT MOUNTED FLUORESCENT LUMINAIRE ON EMERGENCY CIRCUIT
	WALL MOUNTED FLUORESCENT LUMINAIRE
	WALL MOUNTED FLUORESCENT LUMINAIRE ON EMERGENCY CIRCUIT
	LIGHT SWITCH
DESIGNATIONS FOR LIGHT SWITCHES 3 - 3-WAY 4 - 4-WAY D - DIMMER MC - MOMENTARY CONTACT P - PILOT LIGHT K - KEY OPERATED LV - LOW VOLTAGE	
	OCCUPANCY SENSOR-CEILING MOUNTED
	OCCUPANCY SENSOR-WALL MOUNTED C/W OVERID SWITCH
	EXIT SIGN - CEILING MOUNTED
	EXIT SIGN - WALL MOUNTED
	EXIT SIGN - CEILING MOUNTED ARROW DENOTES DIRECTION CHEVRON
	CEILING MOUNTED COMBINATION EXIT SIGN & EMERGENCY LIGHTS
	WALL MOUNTED COMBINATION EXIT SIGN & EMERGENCY LIGHTS
	EMERGENCY BATTERY UNIT WITH 2 INTEGRAL HEADS AND DEDICATED SINGLE RECEPTACLE
	DOUBLE REMOTE EMERGENCY LIGHTING HEADS
	SINGLE REMOTE EMERGENCY LIGHTING HEAD
	REMOTE MOUNTED EMERGENCY BATTERY UNIT AND DEDICATED SINGLE RECEPTACLE
	EMERGENCY BATTERY UNIT WITH 2 INTEGRAL HEADS, HARD WIRED
TELEPHONE AND COMMUNICATIONS	
	TELECOMMUNICATION OUTLET - WALL MOUNTED
	TELECOMMUNICATION OUTLET - CEILING MOUNTED
	TELECOMMUNICATION OUTLET - FLOOR MOUNTED
	TELECOMMUNICATION OUTLET - PANEL MOUNTED
	HANDS FREE COMMUNICATION SPEAKER
	TELEPHONE TERMINAL CABINET - SURFACE MOUNTED
	TELEPHONE TERMINAL CABINET - RECESSED
	TELECOMMUNICATION EQUIPMENT RACK
	TELECOMMUNICATION EQUIPMENT CABINET
SYMBOLS AND LEGEND AS APPLICABLE	

SYMBOL	DESCRIPTION
POWER AND CONTROL	
	RECEPTACLE AND/OR LIGHTING PANELBOARD - SURFACE MOUNTED
	RECEPTACLE AND/OR LIGHTING PANELBOARD - RECESSED
	POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED
	POWER AND/OR DISTRIBUTION PANELBOARD - RECESSED
	EMERGENCY POWER PANELBOARD SURFACE MOUNTED PPE1 DENOTES EMERGENCY POWER PANEL NO.1
	EMERGENCY POWER PANELBOARD RECESSED MOUNTED PPE1 DENOTES EMERGENCY POWER PANEL NO.1
	COMBINATION MAGNETIC STARTER
	MAGNETIC STARTER
	MANUAL STARTER
	HORSEPOWER RATED MOTOR TOGGLE SWITCH
	VARIABLE FREQUENCY DRIVE
	COMBINATION CONTACTOR
	DISCONNECT SWITCH - NON-FUSIBLE
	FUSED DISCONNECT SWITCH
	PUSHBUTTON STATION
	MOTORIZED DAMPER
	TRANSFORMER
	CONTROL PANEL
	JUNCTION BOX
	BLANK JUNCTION BOX
	PULL BOX
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	SPLIT DUPLEX RECEPTACLE
	QUADRUPLUX RECEPTACLE
	RECEPTACLES
	RECEPTACLE SUPPLIED WITH EQUIPMENT
	SPECIAL RECEPTACLE A DENOTES TYPE
	POKE THROUGH POWER OUTLET
	DESIGNATIONS FOR RECEPTACLE TYPES F - FLOOR E - EMERGENCY IG - ISOLATED GROUND B - BENCH MOUNTED
	DIRECT CONNECTION TO EQUIPMENT
FIRE ALARM	
	FIRE ALARM PANEL
	REMOTE ANNUNCIATOR
	GRAPHIC COMMAND CENTRE
	FIRE ALARM TERMINAL PANEL
SYMBOLS AND LEGEND AS APPLICABLE	

SYMBOL	DESCRIPTION
	FIRE ALARM ZONE NUMBER
	AREA SMOKE DETECTOR R DENOTES BELOW RAISED FLOOR
	AREA SMOKE DETECTOR COMPLETE WITH REMOTE ALARM LIGHT
	DUCT SMOKE DETECTOR
	FIRE ALARM BELL
	FIRE ALARM HORN
	CO2 ALARM HORN
	STROBE LIGHT
	FIRE ALARM MANUAL PULL STATION
	END OF LINE DEVICE
	PRE-ACTION SPRINKLER CONTROLLER
	FIREMAN'S HANDSET
	FIRE ALARM CONDUIT
TELEVISION AND CCTV	
	TELEVISION OUTLET
	RADIO OUTLET
	OUTDOOR POLE MOUNTED CAMERA 1 DENOTES CAMERA TYPE
	OUTDOOR ROOF MOUNTED CAMERA 8 DENOTES CAMERA TYPE
	INDOOR CAMERA 2 DENOTES CAMERA TYPE
	CCTV AND COAX JACK
	EMPTY CONDUIT FOR TELEVISION
SYMBOLS AND LEGEND AS APPLICABLE	
ELECTRICAL DRAWING LIST	
E-001	LEGEND, SITE PLAN & DRAWING LIST
E-002	SPECIFICATIONS
E-100	JW-WING : POWER & SYSTEM LAYOUT
E-101	JW-WING : LIGHTING LAYOUT
E-102	G-WING : POWER & SYSTEM LAYOUT
E-103	G-WING : LIGHTING LAYOUT
E-200	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES
E-300	ELECTRICAL DETAILS
SYMBOLS AND LEGEND AS APPLICABLE	

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Legend, Site Plan,& Drawing List

drawing number

E-001

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Oshawa, Ontario

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Electrical Specifications

SPECIFICATIONS

DEFINITIONS:

PROVIDE – MEANS ’SUPPLY AND INSTALL’. INSTALL – MEANS ’MOUNT AND WIRE’. WIRE – MEANS ’SUPPLY AND INSTALL ALL REQUIRED WIRE AND RACEWAYS AND MAKE ALL CONNECTIONS. CONCEALED – MEANS ’NOT VISIBLE ON COMPLETION’. EXPOSED – MEANS ’VISIBLE ON COMPLETION’.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, RULES, BULLETINS, REGULATIONS, BY–LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.

THE DRAWINGS AND SPECIFICATIONS SHOULD NOT CONFLICT WITH THE ABOVE REGULATIONS BUT WHERE THERE ARE DISCREPANCIES THE ELECTRICAL CONTRACTOR SHALL INFORM THE ENGINEER’S REPRESENTATIVE

INCLUDE ALL NECESSARY MATERIALS, LABOUR AND EQUIPMENT TO INSTALL ELECTRICAL WORK AS INDICATED AND SPECIFIED HEREIN.

USE ONLY NEW AND CSA CERTIFIED EQUIPMENT AND MATERIALS. ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED IN REGARD TO ACCEPTED STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF DETAIL.

ALL EQUIPMENT AND MATERIAL IS TO BE CSA CERTIFIED OR APPROVED BY AN ACCREDITED ORGANIZATION. WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT CSA CERTIFIED, OBTAIN SPECIAL APPROVAL FROM ELECTRICAL INSPECTION AUTHORITIES.

COMPLETE INSTALLATION IN ACCORDANCE WITH LATEST EDITION OF THE ONTARIO ELECTRICAL SAFETY ONTARIO ELECTRICAL SAFETY CODE, ONTARIO BUILDING CODE AND THE REQUIREMENTS OF LOCAL INSPECTION AUTHORITIES HAVING ONTARIO BUILDING CODE AND THE REQUIREMENTS OF LOCAL INSPECTION AUTHORITIES HAVING BUILDING CODE AND THE REQUIREMENTS OF LOCAL INSPECTION AUTHORITIES HAVING JURISDICTION. ADHERE TO RULES AND REGULATIONS OF BASE BUILDING. COORDINATE ALL WORK WITH BASE

BUILDING PERSONNEL AS NECESSARY TO PERFORM WORK IN AS EXPEDITIOUS AS MANNER AS NNEL AS NECESSARY TO PERFORM WORK IN AS EXPEDITIOUS AS MANNER AS NEL AS NECESSARY TO PERFORM WORK IN AS EXPEDITIOUS AS MANNER AS POSSIBLE.

EXAMINE THE SITE AND LOCAL CONDITIONS AFFECTING THE WORK. NO EXTRAS TO TENDER PRICE WILL BE APPROVED FOR ANY EXPENSES INCURRED THROUGH FAILURE TO EXAMINE THE SITE.

MAKE SUBMISSIONS TO OBTAIN ALL PERMITS. INCLUDE FOR AND PAY FOR ALL FEES AND ARRANGE FOR ALL REVIEWS REQUIRED FOR THE WORK.

FURNISH A CERTIFICATE OF ACCEPTANCE FROM INSPECTION DEPARTMENT ON COMPLETION OF WORK.

SAW CUTTING, DRILLING AND PATCHING FOR FLOOR OUTLETS AND CONDUITS BY GENERAL CONTRACTOR. OBTAIN LANDLORD’S APPROVAL PRIOR TO PROCEEDING WITH WORK.

ALL EQUIPMENT, JUNCTION BOXES, PULL BOXES, LIQUID TIGHT FLEX, ETC. TO BE GROUNDED THROUGH GROUND WIRES, AS PER LOCAL CODES.

MAINTAIN COLOUR CODE OF ALL CONDUCTORS. COLOUR CODE TO CSA C22.1–1994. ALL WIRING SHALL BE COPPER MINIMUM #12 T90 TWH OR R90 (X–LINK) INSTALLED IN CONDUIT. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE IT FOR CURRENT CARRYING CAPACITY OF PROTECTING DEVICE AND VOLTAGE DROP AT OUTLET OF 5% MAXIMUM. ARMOURED FLEXIBLE CABLE MAY BE USED FOR SHORT BRANCH CIRCUIT CONNECTIONS BETWEEN OUTLETS AND MOTORIZED EQ., FIXED APPLIANCES, IN CEILING SPACES FOR FINAL CONNECTION TO LIGHTING LUMINAIRES (10’–0” MAX.), FOR WIRING DEVICES IN DRYWALL AND DOUBLE MASONRY PARTITIONS AND FURRED SPACES. TIE ARMOURED CABLES TO BUILDING CONSTRUCTION WHERE USED FOR EXPOSED WRING, AVOID LOOSE CABLES.

PROVIDE SUITABLE METAL BRACKETS, FRAMES HANGERS, CLAMPS AND RELATED TYPES OF SUPPORT TO SUPPORT CONDUIT AND CABLE RUNS. FASTEN EXPOSED CONDUITS TO BUILDING CONSTRUCTION OR SUPPORTSYSTEM USING ONE HOLE

MALLEABLE IRON STRAPS. SUPPORT TWO OR MORE CONDUITS ON U–CHANNELS SUPPORTED BY MINIMUM 1/4” DIAMETER THREADED ROD HANGERS WHERE DIRECT FASTENING TO BUILDING CONSTRUCTION IS IMPRACTICAL. TO SUPPORT CONDUITS FROM U–CHANNEL USE ONE PIECE PIPE CLAMPS. RUN ALL CONDUITS CONCEALED IN FINISHED AREAS. CONDUITS IN SERVICE AREAS MAY BE SURFACE. USE EMT CONDUIT WITH DIE CAST SET SCREW–TIGHT CONCRETE TIGHT COUPLINGS AND CONNECTORS IN DRY AREAS. USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS IN DRY AREAS AND DRY TYPE TRANSFORMERS. USE LIQUID–TIGHT FLEXIBLE METAL CONDUIT WITH COMPRESSION RAIN TIGHT COUPLINGS AND CONNECTORS WITH INSULATED THROAT FOR CONNECTION TO EQUIPMENT IN DAMP OR WET LOCATIONS. WHERE CONDUIT SIZE IS NOT INDICATED, SIZE CONDUIT TO ALLOW 25% SPARE CAPACITY. INSTALL FISH CORD IN ALL EMPTY CONDUITS. WHERE CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALL, SEAL SPACE BETWEEN CONDUIT AND STRUCTURE WITH CANSTRUT ELASTA–SEAL (OR APPROVED EQUAL).

PROVIDE JUNCTION AND OUTLET BOXES WHERE NECESSARY FOR PROPER PULLING OF WIRES.

PROVIDE AND INSTALL LABELS FOR RECEPTACLES INDICATING CIRCUIT NUMBERS AND PANEL DESIGNATION, LABELS TO BE PRINTED, SIMILAR TO A BRADY LABEL. LABEL TO BE PLACED ON COVER PLATE AND LOCATION OF THE LABEL IS TO BE CONSISTENT THROUGHOUT THE BUILDING.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO REMOVE THEIR OWN WASTE FROM THE SITE.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING SYSTEMS WHEN MAKING CONNECTIONS.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE ENGINEER’S REPRESENTATIVE WITH A DETAILED COST ANALYSIS OF ANY CHANGE NOTICE INCLUDING QUANTITY OF EACH MATERIAL,UNIT COST OF EACH MATERIAL, TIME INVOLVED, ANY

SUB–TRADE QUOTES, VALUE OF GST OR HST, AS APPLICABLE, ETC.

PROTECT EXPOSED LIVE EQUIPMENT DURING CONSTRUCTION FOR PERSONNEL SAFETY.

SUBMIT FINAL ”AS BUILT DRAWINGS” WITH ONE SET OF MARK UP SEPIAS TO OWNER AFTER COMPLETION FINAL ”AS BUILT DRAWINGS” WITH ONE SET OF MARK UP SEPIAS TO OWNER AFTER COMPLETION ”AS BUILT DRAWINGS” WITH ONE SET OF MARK UP SEPIAS TO OWNER AFTER COMPLETION OF WORKS. INCLUDE THE ROUTING OF ALL FEEDERS EXCEPT FOR BRANCH CIRCUITS, ALL JUNCTION. INCLUDE THE ROUTING OF ALL FEEDERS EXCEPT FOR BRANCH CIRCUITS, ALL JUNCTION BOXES AND ALL REVISIONS MADE DURING CONSTRUCTION, INCLUDING ALL APPROVED CHANGE NOTICES.

ALL ELECTRICAL WORK SHALL BE WARRANTED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL PERFORMANCE. AT NO SUBSTANTIAL PERFORMANCE. AT NO SUBSTANTIAL PERFORMANCE. AT NO COST TO THE OWNER, CORRECT ANY DEFECTS IN THE ELECTRICAL WORK THAT ARE IDENTIFIED WITHIN THAT PERIOD OF TIME.

THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCIDENT AND CONSTRUCTION LIABILITY INSURANCE TO THE LIMITS REQUIRED FOR THE PROJECT IN ORDER TO PROTECT ALL CONTRACTUAL PARTIES.

PROVIDE FIRE STOPPING WHERE REQUIRED. COORDINATE WITH THE GENERAL CONTRACTOR. ALL PAINTS, COATINGS, SEALANTS AND ADHESIVE SHALL MEET ALL APPLICABLE CODES.

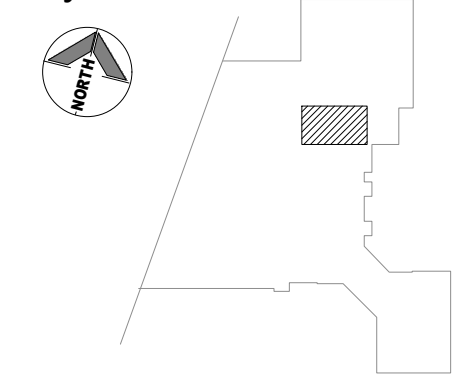
THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND RE–PAINTNING THE ENTIRE WALL WHERE A DEVICE AND/OR BOX HAS BEEN ADDED, REMOVED OR RELOCATED.

WHERE A DEVICE IS SHOWN TO BE RELOCATED, THE ELECTRICAL CONTRACTOR IS TO REMOVE AND RE–INSTALL DEVICE AND BACK BOX AND RE–FEED THE DEVICE WITH NEW CONDUIT AND WIRE FROM THE NEAREST EXISTING ACCESSIBLE JUNCTION BOX.

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Key Plan



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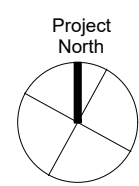
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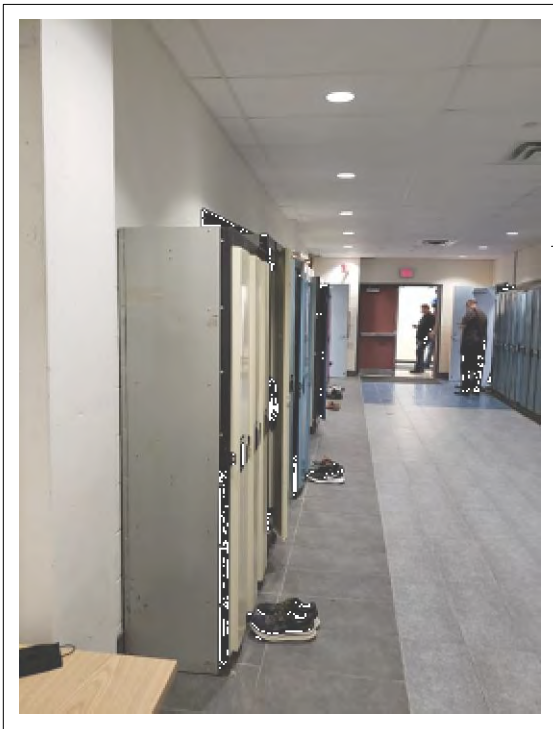
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JW-Wing Level 1 Power & System Layout

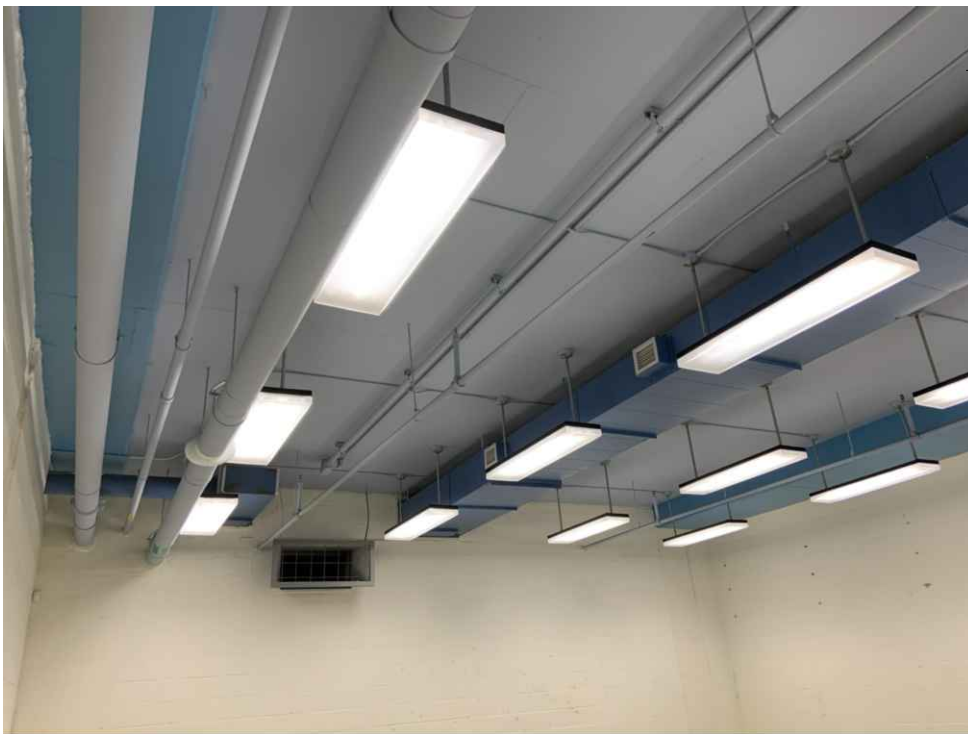


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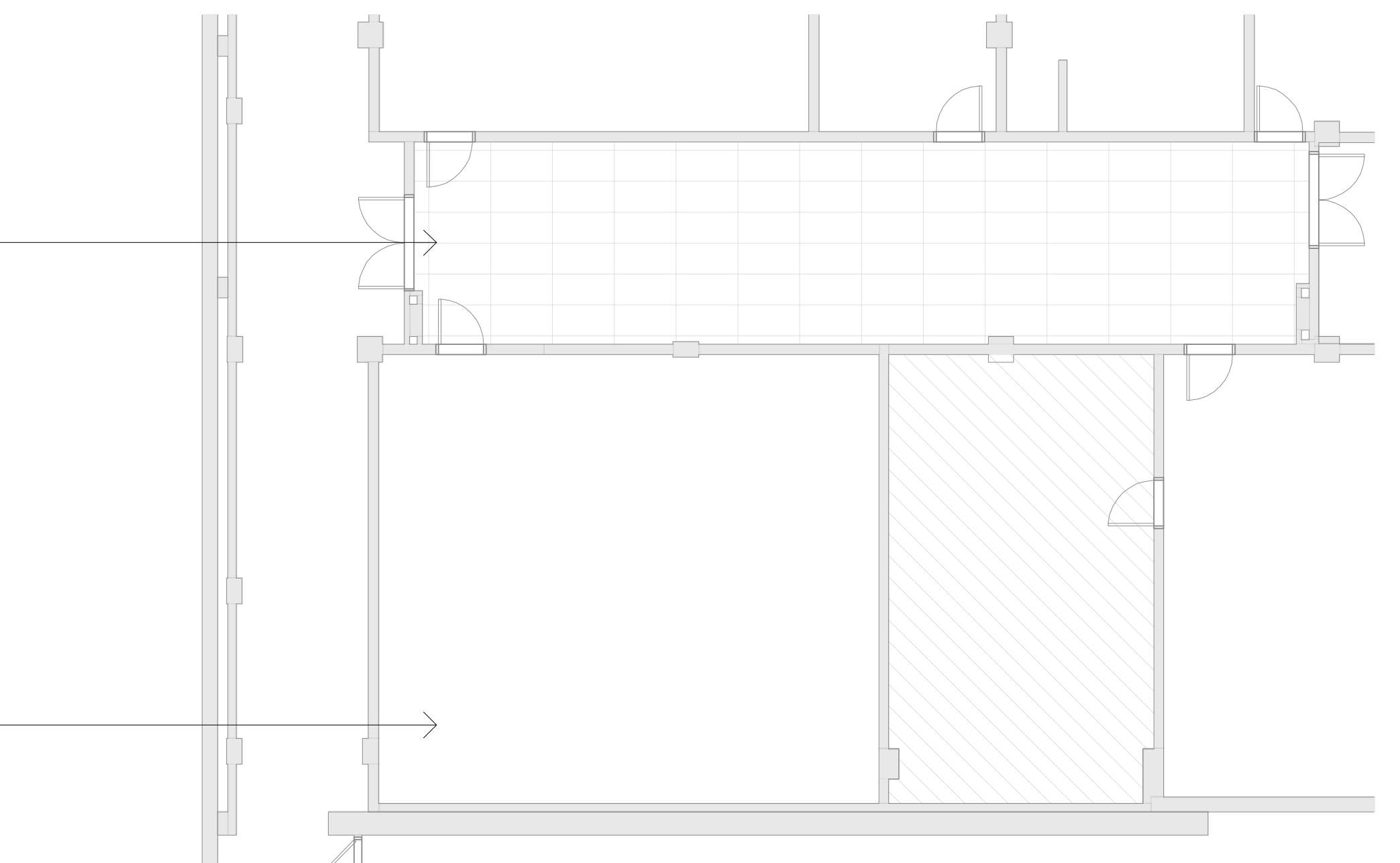
E-100



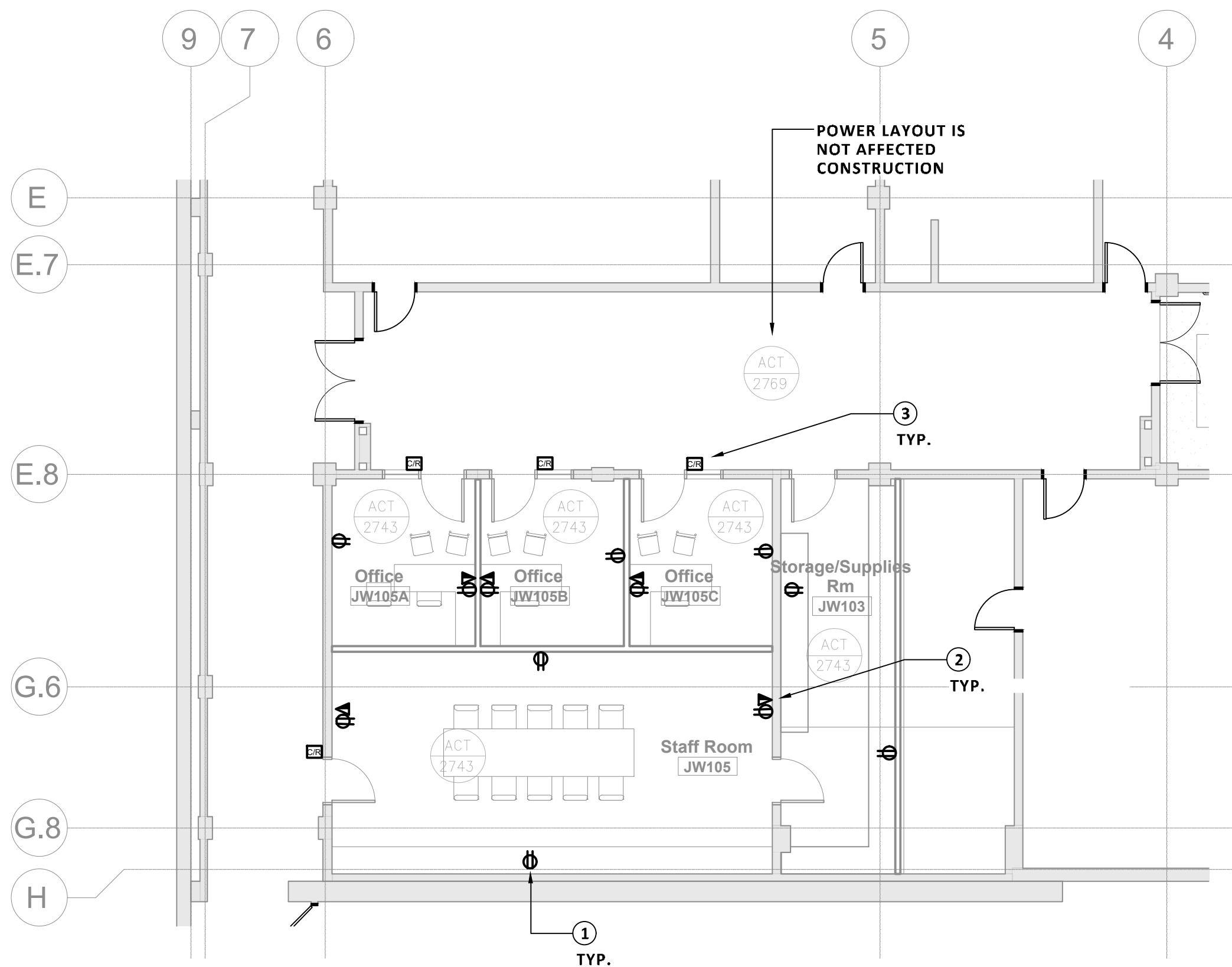
EXISTING
LIGHTING PLAN TO BE REMOVED



EXISTING
LIGHTING PLAN TO BE REMOVED



1 JW-WING LEVEL 01 : DEMOLITION PLAN
E-100 SCALE: 1:100



2 JW-WING LEVEL 01 : POWER & SYSTEM LAYOUT
E-100 SCALE: 1:100

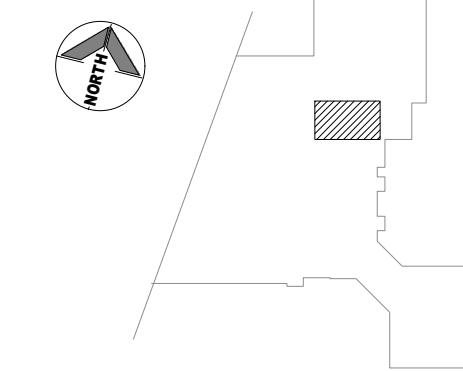
A pie chart for Project North. It is divided into five equal sectors. One sector is highlighted with a thick black line, representing 10% of the total.

drawing number

E-100

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Key Plan



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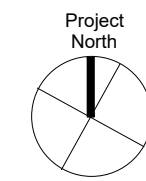
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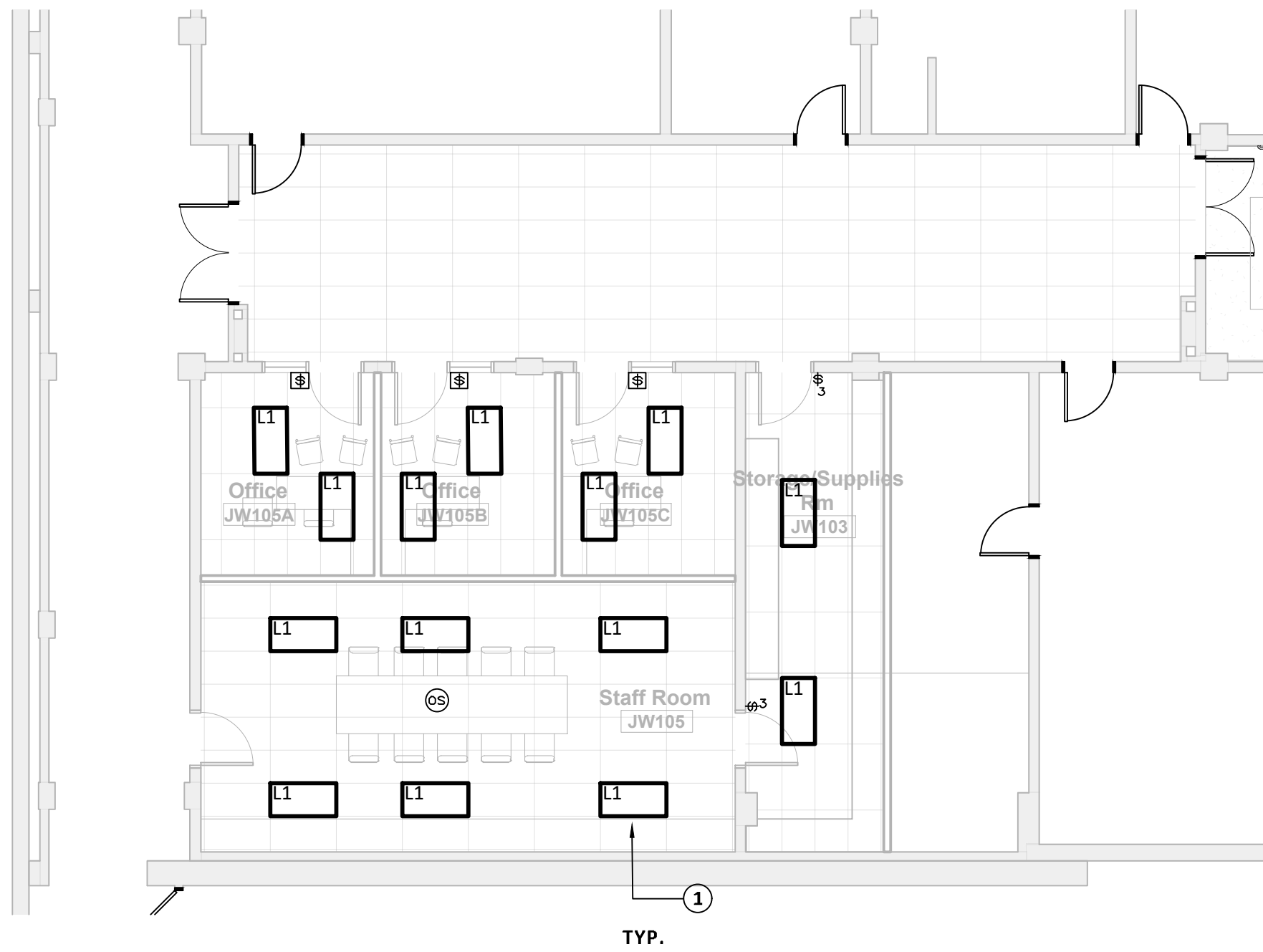
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JW-Wing Level 1 LIGHTING LAYOUT



drawing number

E-101

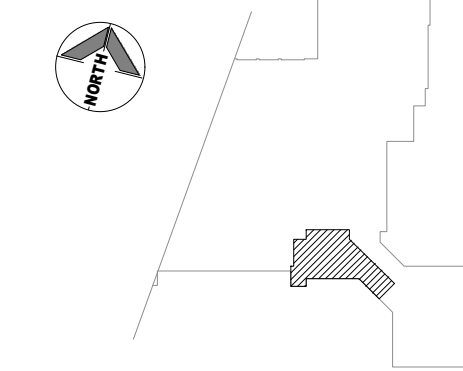


KEY NOTES:

- CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT.

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Key Plan



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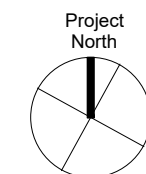
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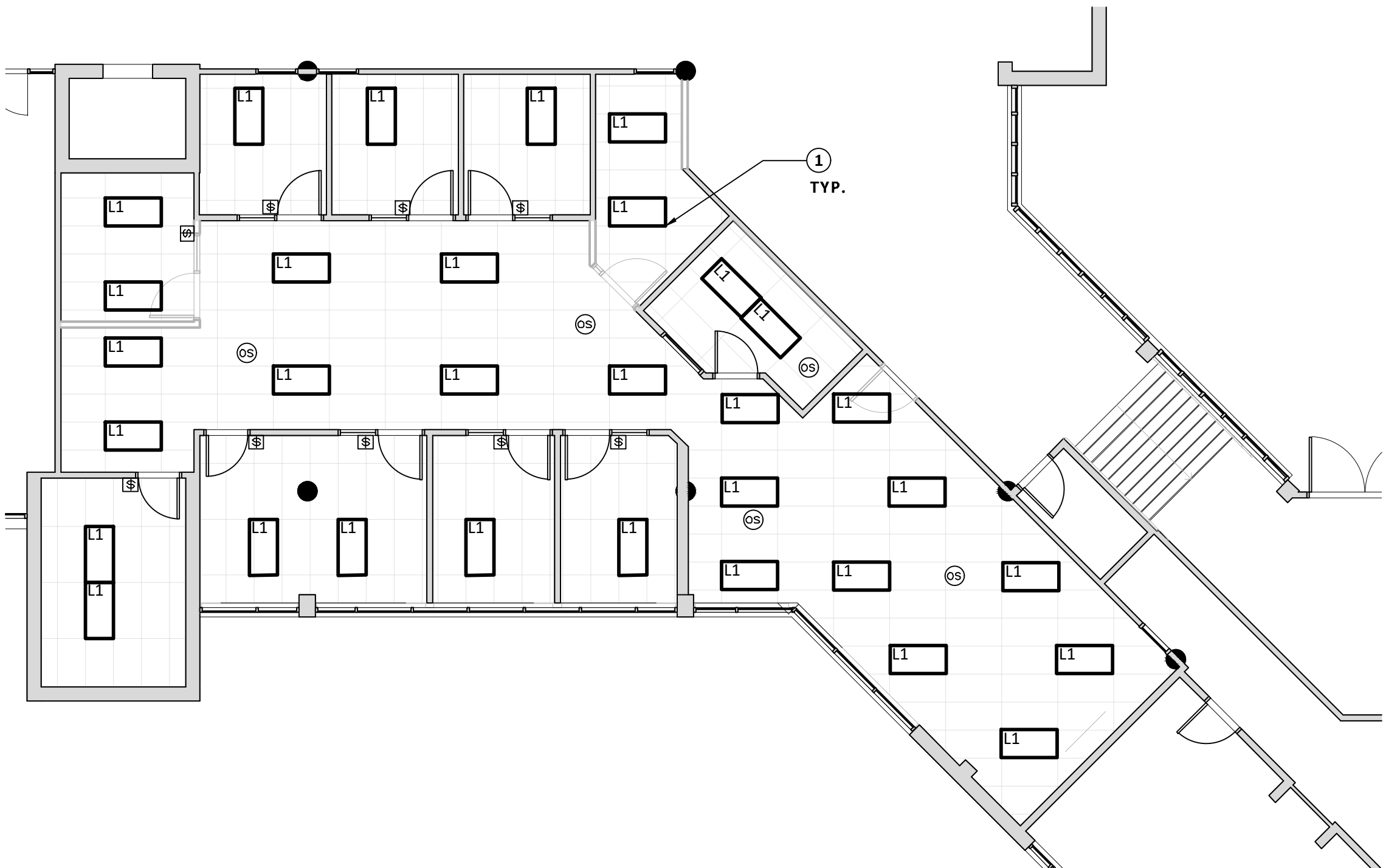
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G-Wing Level 2
Lighting Layout

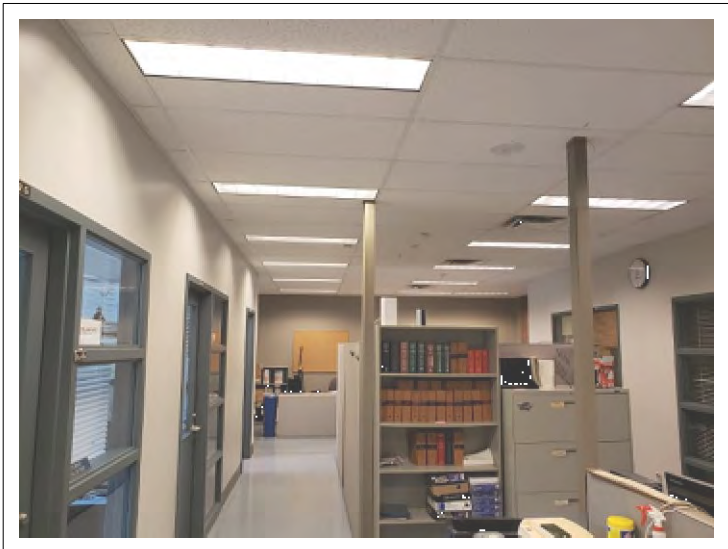


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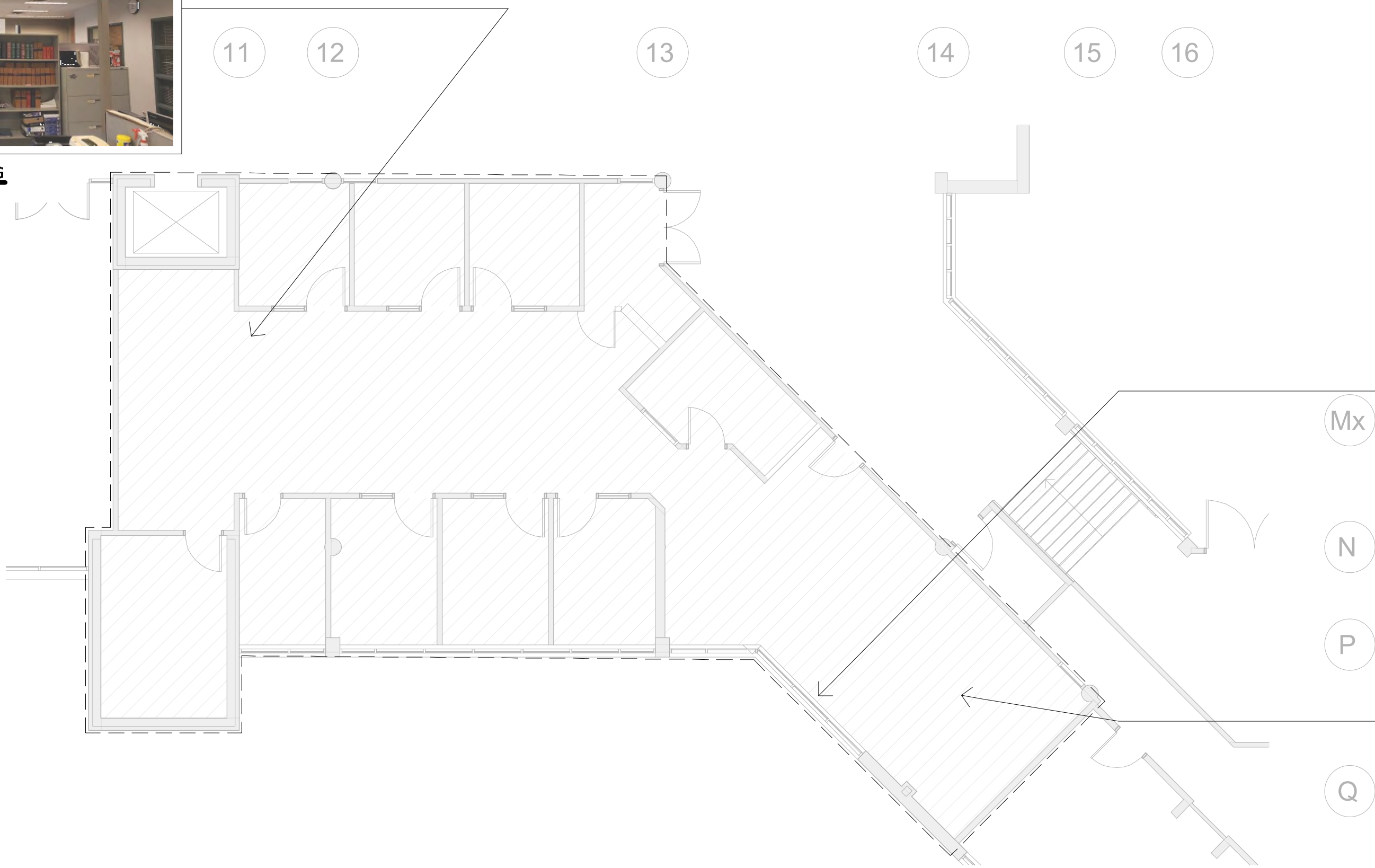
E-103



2
E-103
G-WING LEVEL 02 : LIGHTING LAYOUT
SCALE: 1:100



EXISTING
SPACE

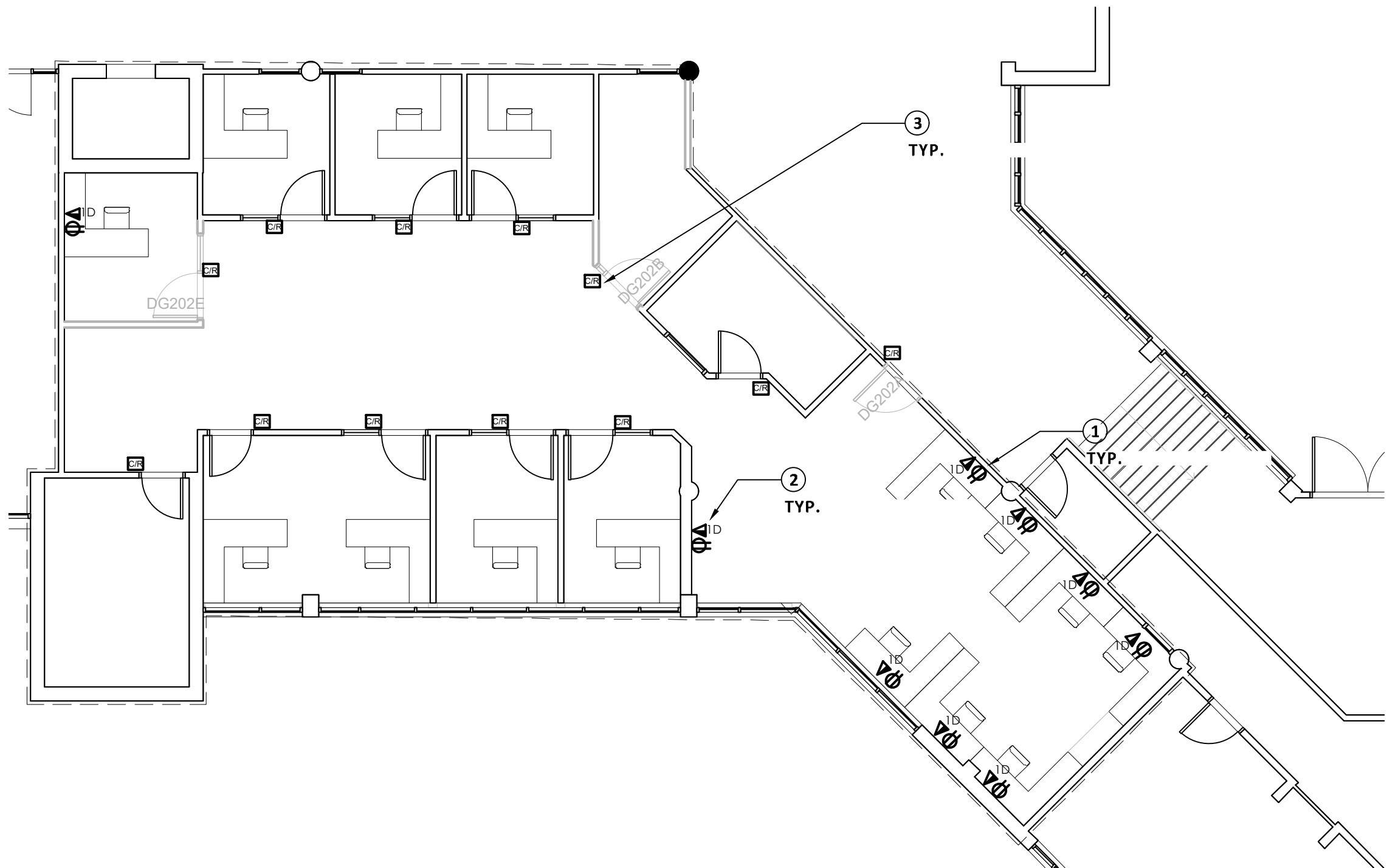


EXISTING HOT WATER
PERIMETER HEATERS



REMOVE EXISTING
SERVICE MOUNTED
OUTLETS AND
WIREWAY

1 G-WING LEVEL 02 : DEMOLITION PLAN
E-102 SCALE: 1:100



2 G-WING LEVEL 02 : POWER & SYSTEM LAYOUT
E-102 SCALE: 1:100

ELECTRICAL DEMOLITION GENERAL NOTES:

1. DEMOLISH ELECTRICAL WORK AS INDICATED. COORDINATE WITH MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT DEMOLITION.
2. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND MAKE SAFE.
4. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
5. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
6. EXISTING FIRE ALARM SMOKE DETECTOR DEVICES AND PA SPEAKERS SHALL BE PROTECTED AND RE-INSTALLED IN THE SAME LOCATION AFTER NEW CEILING TILE INSTALLATION IS COMPLETED.

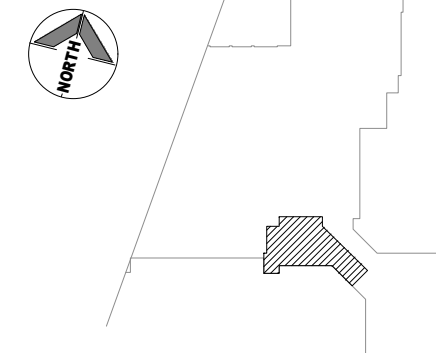
KEY NOTES:

1. CONNECT NEW RECEPTACLES TO EXISTING AREA CIRCUITS (PANEL 1RA)
2. PROVIDE CONDUITS C/W CAT 6 CABLING FOR EACH DATA OUTLET TO LAN ROOM.
3. PROVIDE ELECTRICAL INFRASTRUCTURE AS PER ACCESS CONTROL DETAILS ON DWG E-300

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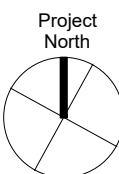
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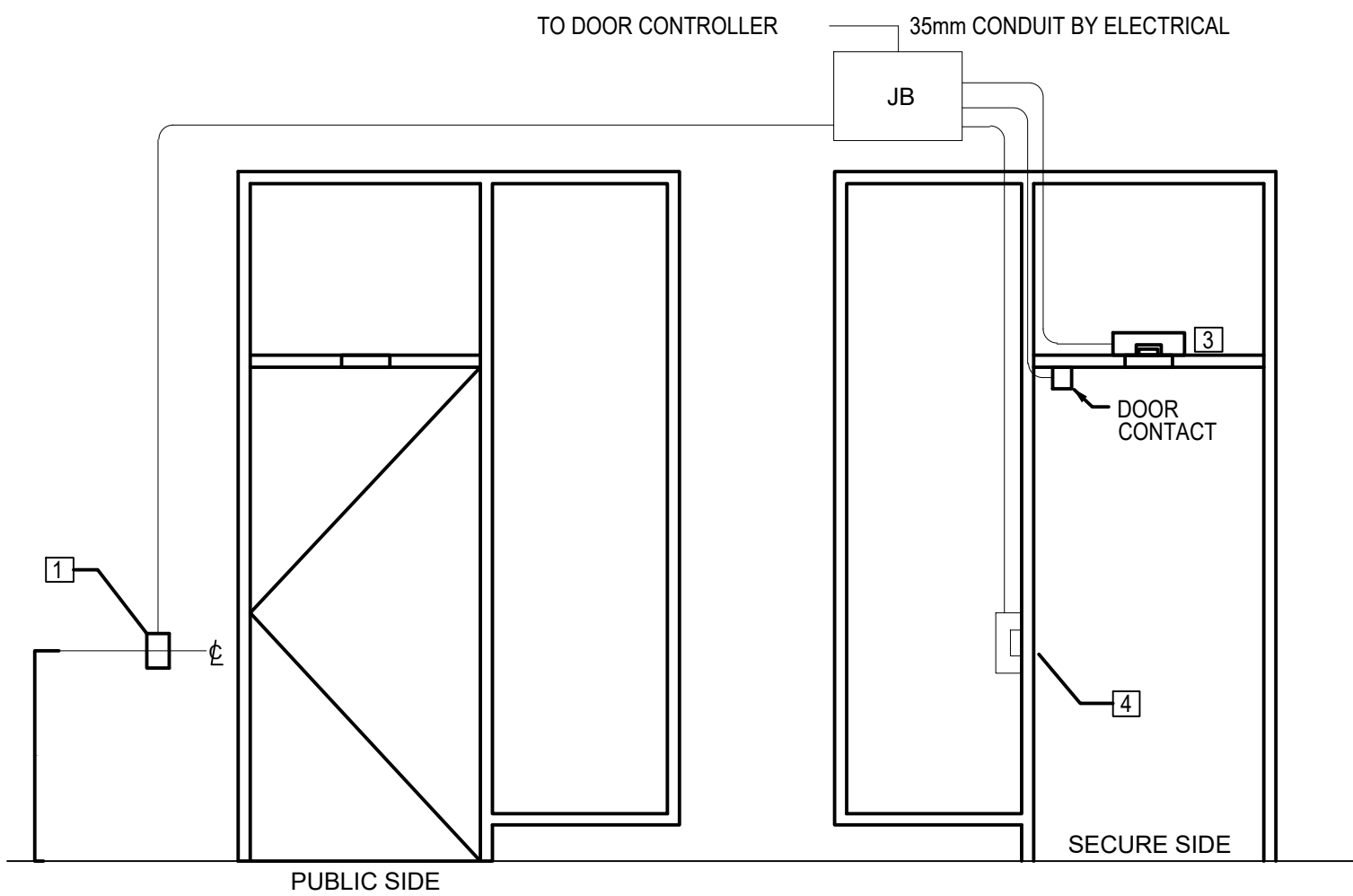
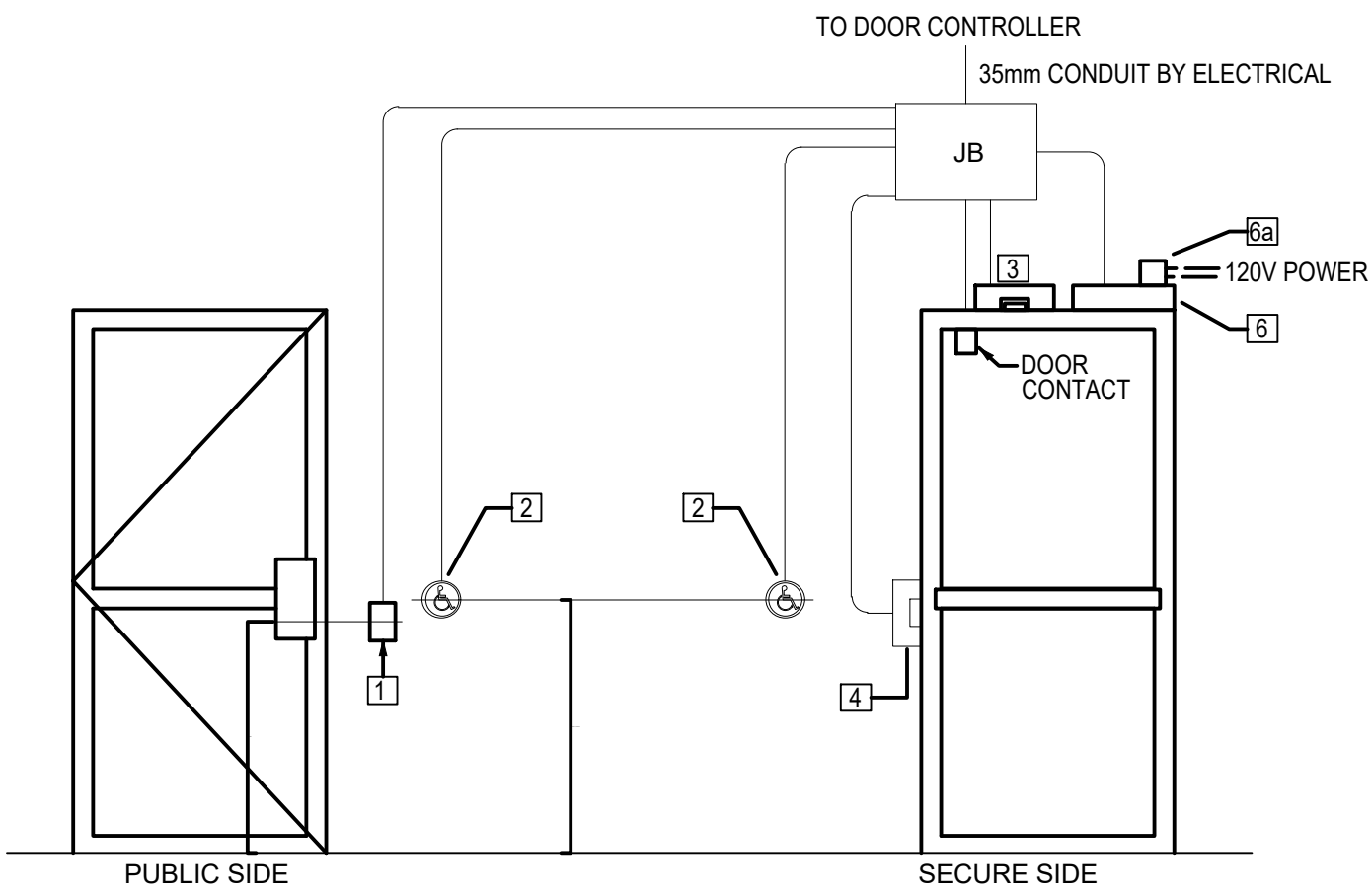
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G-Wing Level 2
POWER & SYSTEM LAYOUT



drawing number

E-102



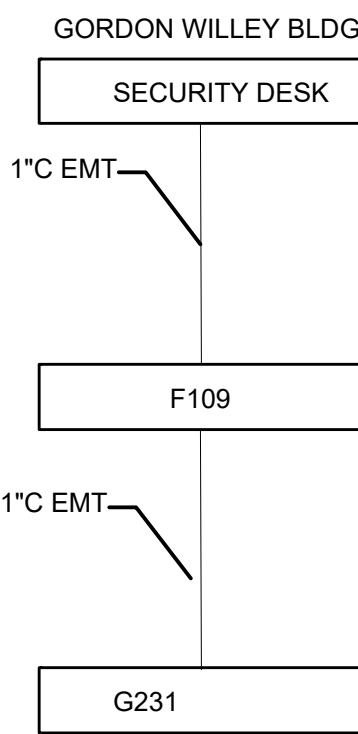
NOTES:

- REFER TO WIRING DETAIL SHOP DRAWINGS FOR WIRING INTERFACE DETAILS TO DOOR CONTROLLER
- REFER TO HARDWARE SUPPLIER SHOP DRAWINGS FOR DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS ON DOOR/FRAME TYPES, AND CLEARANCES
- CARD READER/PUSH BUTTON MIN. 600mm CLEAR OF DOOR SWING IF APPLICABLE (IF DOOR SWINGS TOWARDS WALL MOUNTED DEVICE)
- INSTALLATION SHOP DRAWINGS NOT AVAILABLE AT TIME OF ISSUE
- WIRING WITHIN ALUMINUM FRAMES TO BE ARMORED TECK.

LEGEND

1	CARD READER (PUBLIC)
1a	CARD READER (SECURE)
2	PUSH BUTTON
3	REQUEST-TO-EXIT (MOTION)
4	ELECTRIC STRIKE
5	AUDIO ALARM
6	AUTO OPERATOR
6a	BACK BOX (100mm x 100mm)
7	ELECTRIC HINGE
8	OCCUPANCY INDICATOR

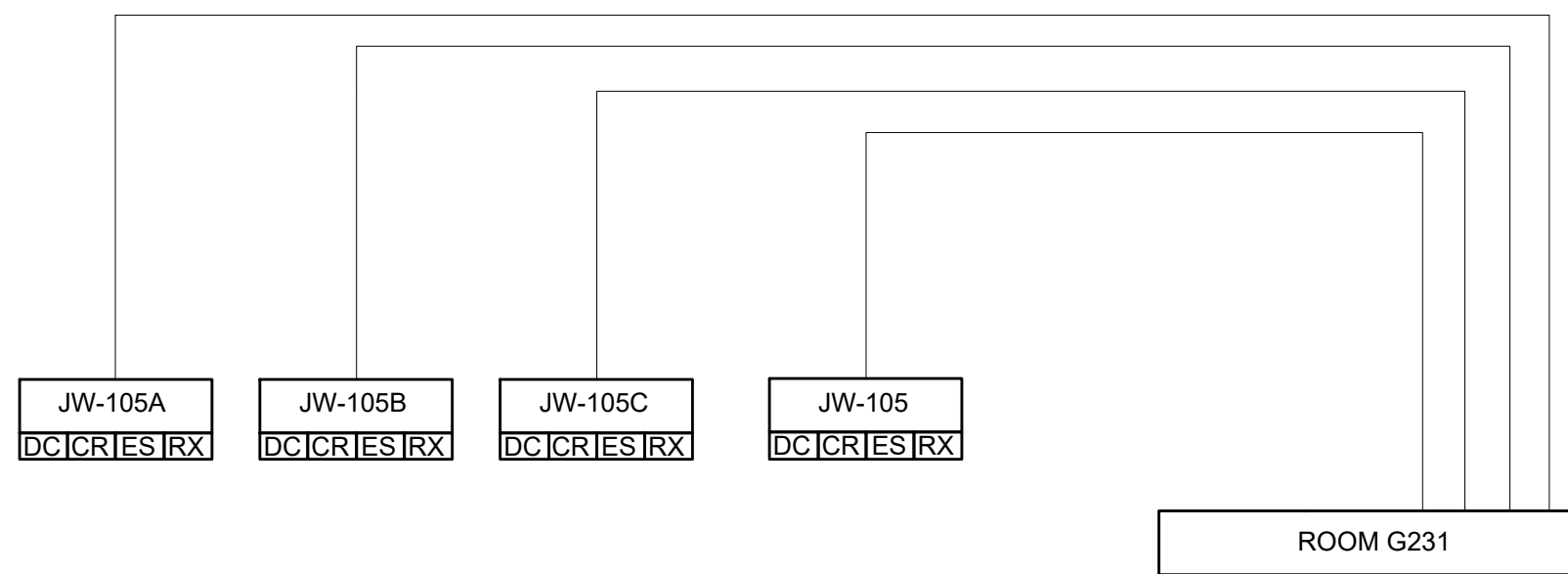
6 ACCESS CONTROL DOOR DETAILS
E-300 N.T.S



7 ACCESS CONTROL BACK BONE CONDUIT RISER DIAGRAM
E-300 N.T.S

LIGHTING FIXTURE SCHEDULE						
TYPE	VOLTS	LAMPS	LUMENS	KELVIN	DESCRIPTION	MFR. TYPES/SERIES
L1	347V	LED	3500	3500K	LED LRTP RECESSED, LAY-IN COFFERED T-BAR TROFFER FIXTURE BY VISCOR. 3500lm, 28W. FIXTUREW SHALL BE C/W EMBEDDED ENLIGHTED LoT SENSORS BY SIEMENS. CONTRACTOR SHALL CONTACT ZAID AL-QAYSI AT SIEMENS (ZAID.AL-QAYSI@SIEMENS.COM) FOR FIXTURES AND ENLIGHTED CONTROL SYSTEM FOR J-BLOCK.	LRTH2X4-LED840K050L347

2 LIGHTING FIXTURE SCHEDULE
E-300 N.T.S



LEGEND - DEVICES

DC	DOOR CONTACT
CR	CARD READER
ES	ELECTRIC STRIKE
RX	REQUEST-TO-EXIT MOTION SENSOR

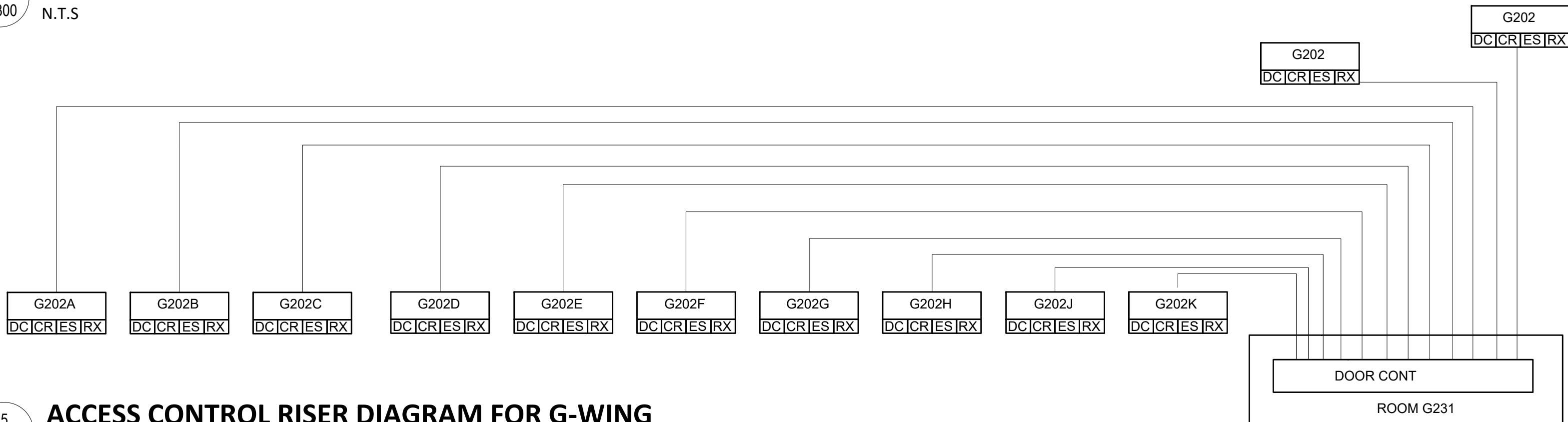
LEGEND - CABLES

MULTI-CONDUCTOR CABLE

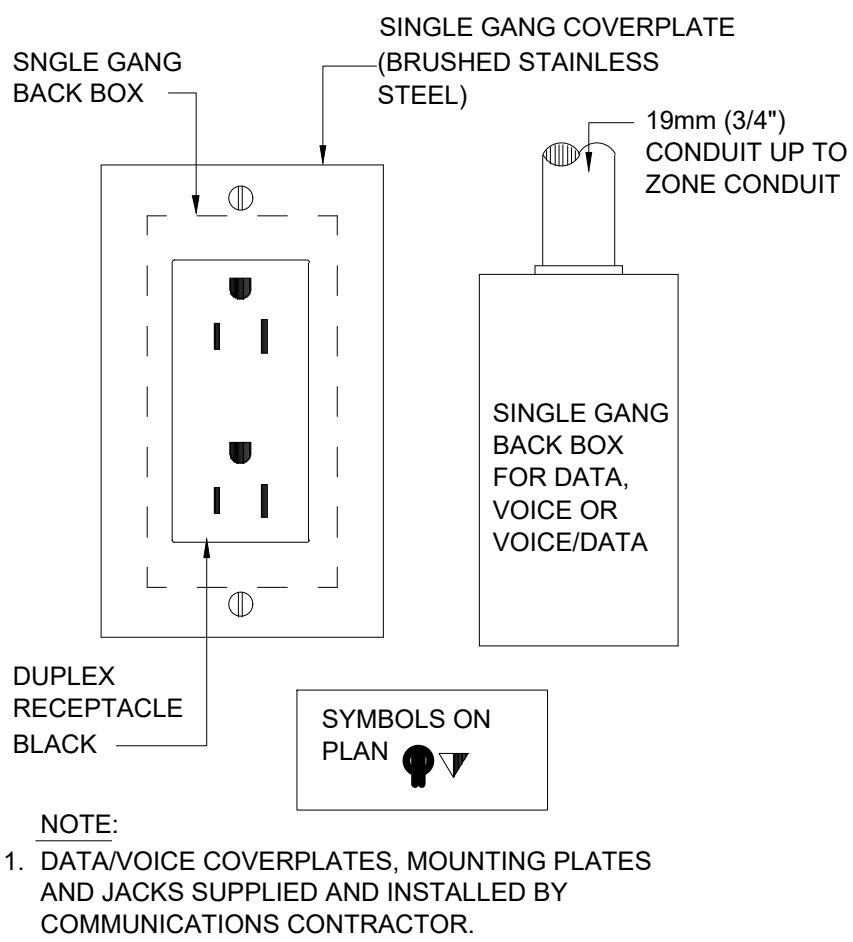
NOTES:

- ALL DEVICES ARE HOME RUNNED TO DESIGNATED DOOR CONTROLLER AND ARE NOT DAISY CHAINED.
- EXACT NUMBER OF DOOR CONTROLLER TO BE CONFIRMED BY BASE BUILDING ACCESS CONTROL VENDOR (ADELPHIA ENTERPRISE LIMITED).
- CONTRACTOR SHALL COORDINATE WITH BASE BUILDING ACCESS CONTROL VENDOR (ADELPHIA) FOR THE SUPPLY AND INSTALLATION OF ACCESS CONTROL SYSTEM AS SHOWN.

4 ACCESS CONTROL RISER DIAGRAM FOR JW-WING
E-300 N.T.S



5 ACCESS CONTROL RISER DIAGRAM FOR G-WING
E-300 N.T.S



1 POWER & COMMUNICATIONS-WALL MOUNTED DETAILS
E-300 N.T.S

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Key Plan



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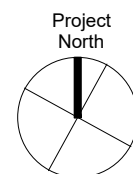
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Electrical Details



drawing number

E-300