alaimo architecture inc. 8551 Weston Road, Suite 202, Vaughan, Ontario, L4L 9R4 P: (905) 856-2840 E: info@alaimoarchitecture.com

ARCHITE	ECTURAL		
A-000	COVER	STRUCT	TURAL
A-100	MATRIX, KEYPLAN, & GENERAL NOTES	S1.1	GENERA
A-101	SITE PLAN		SCHEDU
A-102	FOUNDATION PLAN	S1.2	TYPICAL
A-103	GROUND FLOOR PLAN & MILLWORK	S1.3	SCHEDL
A-104	MEZZANINE	S2.0	ANCHOF
A-105	ROOF		DETAILS
A-106	DOOR SCHEDULE	S2.1	FOUNDA
A-300	FLEVATIONS	S2.2	FOUNDA
A-400	BUILDING SECTIONS	S3.1	ROOF FI
Δ_401	WALL SECTIONS	S3.2	ROOF S
		S4.1	STRUCT
		S5.1	MEZZAN

SHEET TITLE

SHEET

ORANGEVILLE OPERATIONS CENTRE EXPANSION 500 C LINE, ORANGEVILLE, ONTARIO L9W 4Z3





SHEET TITLE

SHEET

SHEET

M5

SHEET TITLE

RAL NOTES & LATERAL LOADS ULE/ DIAGRAMS L DETAILS ULES & DETAILS OR BOLTS LAYOUT & BASE PLATE

ATION PLAN ATION SECTIONS FRAMING PLAN SECTIONS TURAL STEEL ELEVATIONS **MEZZANINE FRAMING PLAN & SECTIONS**

MECHANICAL COVER M0

M1 MECHANICAL SPECIFICATIONS M2 HVAC PLAN М3 PLUMBING PLAN M4 **MECHANICAL SCHEDULES & DETAILS**

MECHANICALS DETAILS

ISSUED FOR TENDER, 2025-01-20



SHEET

SHEET TITLE

SHEET

ELECTRIC	AL
E0	COVER
E1	ELECTRICAL SPECIFICATIONS
E2	ELECTRICAL SLD., LEGEND AND SCHEDULES
E3	ELECTRICAL DEMOLITION PLAN
E4	PROPOSED POWER PLAN - GROUND FLOOR
E5	PROPOSED CEILING PLAN - GROUND FLOOR
E6	PROPOSED POWER PLAN - MEZZANINE
F 7	PROPOSED CEILING PLAN - MEZZANINE

- PROPOSED GEILING PLAN MIEZZANINE
- E8 ELECTRICAL DETAILS



CIVIL C1

GENERAL NOTES, TYPICAL DETAILS, KEY PLAN & SITE SERVICE PLAN

SHEET TITLE



EXTERIOR WALL TYPES

EW-1 125mm (5") INSULATED METAL PANEL EXTERIOR FACE 22 ga PROFILE - NORBEC MICRORIB COLOUR- RIGEL 2 GREY (QC 9789)

> INTERIOR FACE 24 ga PROFILE - NORBEC SMP SMOOTH COLOUR- BRIGHT WHITE EFFECTIVE R VALUE= 37.05

SEALED BY P. ENG. LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO FOR REVIEW BY PROJECT ENG. & ARCHITECT.

INTERIOR WALL TYPES

W1 290mm CONCRETE BLOCK MASONRY FROM T/O CONCRETE FLOOR TO U/S OF DECK FIT AROUND O.W.S.J. & STRUCTURAL ELEMENTS W/ SOLID CEMENT BRICKS USE TO FILL GAPS. (REFER TO STRUCTURAL DRAWINGS). CONCRETE BLOCK WALL TO BE PAINTED "OFF WHITE " EPOXY PAINT (FLOOR TO U/S OF DECK)

W2 190mm CONCRETE BLOCK MASONRY FROM T/O CONCRETE FLOOR TO U/S OF DECK FIT AROUND O.W.S.J. & STRUCTURAL ELEMENTS W/ SOLID CEMENT BRICKS USE TO FILL GAPS. (REFER TO STRUCTURAL DRAWINGS) CONCRETE BLOCK WALL TO BE PAINTED "OFF WHITE " EPOXY PAINT (FLOOR TO U/S OF DECK)

	Firm Name: Ala	aimo Arch	nitecture	Inc.											
	Certificate of P Firm Address:	ractice N 8551 We	umber : ston Roa	4995 ad, Suit	e 202, Va	iugha	n, Ontario	, L4L 9R4							
	Name of Project 500 C Line, Or	ct: ORAN angeville,	GEVILL ONTAF	E OPE RIO L9\	RATIONS N 4Z3	CEN	NTRE EXF	PANSION							
Item	Ontario's 2012 Building Code Data Matrix Part 3 or 9 BC REFERENCE														
1	Project Description:						New		Part 11	Part 3	Part 9				
•	New Industrial Build	ling	Cha	nge of Us	se	,	Addition	11.1	l to 11.4	1.1.2. [A]	1.1.2. [A] & 9 10 1 3				
2	Major Occupancy(s)				,				3.1.2.1 (1)	9.10.2				
	BUILDING CLASSIF	-ICATION:	3.2.2.78 G	GROUP F	, DIVISION 3	8, UP T	O 2 STOREY	S							
3	Building Area (sq.m	.)	- .					404		1.4.1.2. [A]	1.4.1.2. [A]				
	Total Building:		Exis Proj Con	sting build posed <u>ex</u> nbined	pansion			134 560 1908	8.22 sq.m. 0.00 sq. m 0.22 sq. m.						
4	Gross Building Area	a (sq. m): 60	0 sq.m. of	expansio	n only (Inclu	ding me	ezzanine)			1.4.1.2. [A]	1.4.1.2. [A]				
5	Number of Storevs:		Above Gr	ade: 1		Belov	v Grade: 0			1.4.1.2. [A] & 3.2.1.1	1.4.1.2. [A] & 9.10.4				
6	Number of Streets/F	Fire Fighter A	Access: 3							3.2.2.10 & 3.2.5	9.10.20				
0	Building Classificati	$\frac{10}{00} = 32278$			NN 3					3 2 2 20 83	0.10.20				
/		011 - 3.2.2.70	GROUP P		JN 5					3.2.2.2083	9.10.2				
8	- Existing Building N	roposea Jot Sprinkled	8				Entire Build	ling		3.2.2.2083	9.10.2				
	- Proposed Addition	Not Sprinkle	ed				Selected C	ompartments		3.2.1.5					
							Selected Fl	oor Areas		3.2.2.17					
							Basement Not Require	🗆 In Lieu ed	ı of Roof Rating	INDEX	INDEX				
9	Standpipe Required						Yes		No	3.2.9	N/A				
10	Fire Alarm Required	ł					Yes	\boxtimes	No	3.2.4	9.10.18				
11	Water Service/Supp	oly is Adequa	ate			\boxtimes	Yes		No	3.2.5.7	N/A				
12	High Building						Yes	\boxtimes	No	3.2.6	N/A				
13	Construction Restric	ctions		Com	oustible		Non-combus	tible required	⊠ Both	3.2.2.2083	9.10.6				
	Actual Construction		Г	Perm ∣ Coml	litted oustible		Non-combus	stible	□ Both						
14	Mezzanine(s) Area	(sq.m)	40 sq.m.							3.2.1.1.(3) - (8)	9.10.4.1				
15	Occupant Load Bas	ed on			sq.m. / perso	n	\boxtimes	design of buil	ding	3.1.17	9.9.1.3				
10	Room:102			Occupa	ancy: F3		Load:)							
				·											
16	Barrier-Free Design			Yes		\boxtimes	No (Repair G	arage)		3.8	9.5.2				
17	Hazardous Substan	ces		Yes		\boxtimes	No			3.3.1.2. & 3.3.1.19 9.10.1.3 (4)					
18	Required		Horiz	ontal Ass	emblies			Listed Des	ign No.	3.2.2.2083 &	9.10.8 9.10.9				
	Fire Resistance		ł	-RR (Hou	irs)			or Descriptio	in (SB-2)		3.10.3				
	Rating	Fle	oors	0.0	He	ours									
	(FRR)	Ro	oofs	0.0	H	ours									
		M	ezzanine	0.0	He	ours									
			FRI	R of Supp	orting			Listed Des	ign No.						
				Iviembei	S			or Descriptio	n (SB-2)						
		Fl	oors	0.0	H	ours									
		Ro	oofs	0.0	He	ours									
		M	ezzanine	0.0	H	ours									
19	Spatial Separation	- Constructi	on of Exter	or Wall						3.2.3					
		Wall	EBF	L.D.	L	Ή	Permitted	Proposed	Required	Construction	Cladding				
			Area (m ²)	(m)	с н	r /L	Max. % of	% of	FRR (H)	Type Required	Type Required				
		North	127 02	11 63		-	100	0.0	0.0	Non-combustible	Non-combustible				
		South	107 00	60 /7			100	20 00	<u></u>	Non combustible	Non combustible				
			<u>121.02</u>	00.47	-		100	<u> 33.20</u>	0.0						
		⊨ast	<u>N/A</u>				400	40.04	0.0	Non-combustible	Non-combustible				
		vvest	202.08	UVE	<u>194</u> -		100	12,94	<u>U.U</u>	Non-combustible	Non-combustible				
20	Plumbing Fixture F	Requirement	s 50%		Occupant	B	C	Fixtures	Fixtures						
	Except as noted of	therwise:	, •		Load	[N	able lumber	Required	Provided						
	No additional staff	nronosad fo	r		n/a										
	the garage expans	sion.	•		in u	_									

GENERAL NOTES:

- THE BUILDING SHALL CONFORM TO THE ONTARIO BUILDING CODE, LATEST EDITION. 1 CONSTRUCTION PRACTICE SHALL BE IN ACCORDANCE WITH SAME
- COMPLY WITH THE ONTARIO BUILDING CODE, THE CANADIAN CONSTRUCTION SAFETY 2. CODE AND ALL REGULATIONS AS SET OUT BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL TRADES ARE TO READ THESE ARCHITECTURAL DRAWINGS IN CONJUNCTION WITH 3. THE STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT PRIOR TO PROCEEDING WITH ANY WORK.
- ALL SERVICE LINES ENTERING THE BUILDING FOUNDATIONS SHALL REMAIN A MIN. 3' 0" 4. (915mm) CLEAR OF ALL COLUMN PIER FOUNDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE LOCATION OF ALL SERVICE LINES PENETRATING THE FOUNDATION WALL AND SHALL ENSURE THAT MINIMUM CLEARANCES ARE MAINTAINED.
- 5. ALL INTERIOR G.W.B. SURFACES AT EXTERIOR WALLS AND ALL G.W.B. SURFACES OF ALL DEMISING WALLS TO BE SEALED, TAPED, SANDED, PRIMED AND PAINTED.
- DRYWALL PARTITIONS AT EXTERIOR WALLS ENCAPSULATING SPRAY APPLIED 6. INSULATION SHALL BE THERMAL BARRIERS CONFORMING TO THE NATIONAL BUILDING CODE, ONTARIO BUILDING CODE, AND ULC S126 AND SHALL CARRY UP TO U/S OF STRUCTURAL SLAB/ROOF DECK / CEILING ABOVE.
- 7. PROVIDE DEFLECTION TRACK TO TOP OF ALL METAL STUD WALLS (EXTERIOR AND INTERIOR) THAT EXTEND UP TO STRUCTURAL FRAMING.
- PROVIDE ULC APPROVED FIRESTOP ASSEMBLIES TO TOPS, BOTTOMS AND ENDS OF FIRE 8 SEPARATION (ie. RATED ASSEMBLIES) AT JUNCTIONS WITH ABUTTING CONSTRUCTION, AND WHERE SERVICES (PIPING, CONDUITS AND WIRING) PENETRATE FIRE SEPARATIONS. FIRESTOP ASSEMBLIES SHALL BE U.L.C. LISTED, AND SHALL PROVIDE A FIRE RESISTANCE RATING EQUAL TO THE FIRE RESISTANCE RATING OF THE FIRE SEPARATION.
- MATERIALS EXPOSED WITHIN CEILING SPACES, INCLUDING ELECTRICAL WIRING, SHALL 9. CONFORM TO THE REQUIREMENTS OF O.B.C. 3.6. 4.3.(1) FOR PLENUMS.
- 10. THE FLAME SPREAD RATING OF ALL FINISHES SHALL CONFORM TO O.B.C. 3.1 5. AND 3.1.13.2.
- 11. VAPOUR BARRIER TO BE 6MIL POLY, LAP AND SEAL JOINTS/ TERMINATIONS.

STRUCTURAL NOTATION: REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION

SEE STRUCTURAL DWGS. ALL NEW STRUCTURAL STEEL SHALL BE SHOP PRIMED 'LIGHT GREY'

G.C. & SUB-TRADE SHALL HAVE SHOP DRAWINGS FOR SEISMIC & WIND LOADING CONSIDERATION PREPARE &

NOREX-L SUPPLIED BY NORBEC, QUEBEC, CANADA





No.





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	MILLWOR	K MATERIAL FINISHE	S SCHEDULE
		ITEM	DESCRIPTION
FELE DN CABINET GABLE		DOOR/ DRAWER	3/4" (19 mm) FORMALDEHYDE FREE (PMDI) COMBI- CORE (MDF) LAMINATED ON EXTERIOR W/ LOOKS - LIKATRE & ON INTERIOR W / WHITE
ORMALDEHYDE FREE 5/8" (16 mm)		DOOR/ EDGEBAND	0.018" THICK PANOLAM LOOKS- LIKATRE EDGE
MBI- CORE LAMINATED W/		EXPOSED ENDS	3/4" (19 mm) FORMALDEHYDE FREE (PMDI) COMBI- CORE (MDF) LAMINATED W / LOOKS LIKATRE
GS PPROVED BY THE ARCHITECT		INTERIOR	5/8" (16 mm) WHITE MELAMINE FORMALDEHYDE FREE
	MILLWORK SPEC.	COUNTER TOP	CORIAN ENDURA, COLOUR : SMOKY MARBLE FOR COUNTER
	& ITEMS	HINGES	BLUM (SOFT CLOSE)
		HANDLES	HAFELE - 117.05.610 HDL STA ST MATT M4 10/ CTC 128 mm (HORIZONTAL)
			HAFELE - 117.05.650 HDL STA ST MATT M4 10/CTC 480 mm (VERTICAL)
		KICK	PLYWOOD W/ STAINLESS STEEL SHEET 2035 (LAMITECH)

OF CE

This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

FRANCESCO ALAIMO	true Horth	Project North	
ISSUED FO	R TEN	IDER	
b. Issued Fo		Date	
ISSUED FOR BUILDING		2025-01-20	
Oran	Jev	ille	
alaimo			
architect	ure		
551 Weston Road, Suite 2 aughan, Ontario	202		
. (905) 856-2840 : (905) 856-4912 Ifo@alaimoarchitecture.	com		
Fawing Title GROUND FLC MILLWORK	DOR P	LAN &	
oject RANGEVILLE OPERATI ENTRE EXPANSION	IONS		
0 C Line, Orangeville, C	ONTARIO LS	9W 4Z3	
Scale As indicated Issued by			
File No. 2022-008 Plot Date 30.06.2023			
	A	-103	

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NOTE: FOR DOOR SCHEDULE REFER TO A-106

EXTERIOR WALL TYPES

EW-1 125mm (5") INSULATED METAL PANEL EXTERIOR FACE 22 ga PROFILE - NORBEC MICRORIB COLOUR- RIGEL 2 GREY (QC 9789)

> INTERIOR FACE 24 ga PROFILE - NORBEC SMP SMOOTH COLOUR- BRIGHT WHITE EFFECTIVE R VALUE= 37.05

G.C. & SUB-TRADE SHALL HAVE SHOP DRAWINGS FOR SEISMIC & WIND LOADING CONSIDERATION PREPARE & SEALED BY P. ENG. LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO FOR REVIEW BY PROJECT ENG. & ARCHITECT.

NOREX-L SUPPLIED BY NORBEC, QUEBEC, CANADA

INTERIOR WALL TYPES

- W1 290mm CONCRETE BLOCK MASONRY FROM T/O CONCRETE FLOOR TO U/S OF DECK FIT AROUND O.W.S.J. & STRUCTURAL ELEMENTS W/ SOLID CEMENT BRICKS USE TO FILL GAPS. (REFER TO STRUCTURAL DRAWINGS). CONCRETE BLOCK WALL TO BE PAINTED "OFF WHITE " EPOXY PAINT (FLOOR TO U/S OF DECK)
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 $\left(\mathbf{K} \right)$

В

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 (\mathbf{G})

	LOC	ATION		DOOR DA	TA		FRAME DA	TA							HA	ARDWARE DA	TA							
Door No.	FROM	TO	Panel Width (mm)	Height (mm)	Door Material Type	Frame Material Type	Jamb Depth (mm)	Butts Type A- 1-1/2 Pair B- 2 Pair C- Cont. Hinge	Passage Set / Latch Set	Prviacy Set	Lockset / Deadlatch	Cylinder Lock	Exit Device	Push Plate & Pull	Closer Type A- Low Force B- Normal Force	Floor or Wall Mounted Door Stop	Overhead Stop	Sweep	Weather Stripping or Gas Seal	Threshold	Kick Plate 200mm High	EDO with Actuator Buttons	Electric Door Strike with Card Reader	Comments
101		REPAIR	4880	4880	AL	AL																		O.H.D D2
102	EXTERIOR	REPAIR	965	2135	НМ	HM	125	B				X	Х		В		X	X	X	X	X		Х	INSULATED -
103 104	EXTERIOR EXTERIOR	GARAGE WASH BAY	4880 965	4880 2135	AL HM	AL HM	125	B				X	X		В		X	X	X	X	X		X	D1 O.H.D D2 INSULATED -
105	EXTERIOR	VEST	1000	1000	<u></u>	<u> </u>																		
105	EXTERIOR	GARAGE	4000	4000		AL																		0.11.0 02
106	REPAIR GARAGE	ELEC/COMP RM.	965	2135	HM	HM	125	В			Х										X			D1
107	REPAIR GARAGE	WASH BAY	965	2135	HM	HM	125	В	X						В		X		X	X	X			D1
108	REPAIR GARAGE	OFFICE	965	2135	HM	HM	175	В			Х				В		Х				X			
109	REPAIR	VEST	965	2135	HM	HM	125	В	Х						В		Х				X			D1
201	STAIR	MEZZANINE	965	2135	HM	НМ	175	В			Х				В						X			
EX1																								EXISTING TO REMAIN
EX2																								EXISTING TO REMAIN
EX3																								EXISTING TO REMAIN
EX4																								EXISTING TO REMAIN
EX5																								EXISTING TO REMAIN
EX6																								EXISTING TO REMAIN
EX7																								EXISTING TO
EX8																								EXISTING TO
EX9																								EXISTING TO
EX10																								REMAIN EXISTING TO
ABBREV	ATION LEGEND:														GENER	RAL HARDWARE NO	DTES:							REMAIN
EXT INT FFD OHD DSD WD	EXTERIOR DOO INTERIOR DOOF FOUR FOLD DOO OVER HEAD DO DOUBLE SLIDIN WOOD DOOR	R AL R HM OR DHM OR FR G DOOR ALTB PFM	ALUMIN Hollo Doubli Fire RA Alumin Pre Fin	UM METAL E HOLLOW ME TED UM THERMAL IISHED META	ETAL LY BROKEN										1. ALL F 2. ALL E 3. CO-C 4. ALL F 5. ALSC 6. HARE	HARDWARE TO BE DOORS & FRAMES ORDINATE HARDW/ HARDWARE TO BE O CO-ORDINATE W DWARE SCHEDULE	MORTISE TYI TO BE FACTO ARE SCHEDU SUPPLIED & ITH MECHANI E TO BY PROV	PE DRY PREPAI LE WITH OV INSTALLED CAL & ELEC /IDED BY G.	RED TO R VNER & U UNDER T CRICAL D C. AND AF	ECEIVE NDER TI HIS CON RAWING PROVE	SPECIFIED HE CASH A ITRACT GS ID BY OWNI) HARDWARE LLOWANCE ER.		
PAINT SC	HEDULE :																							
• E	XTERIOR: FOR D	OORS D102, D104																						
ŀ	IM DOOR FRAME IM DOOR COLOU	Colour - St.Bon R - Mennonite G	NIFACE #P SREY TINT	2150-02 BY PA 1 # P2111-04 B	NRA PRINT BY PARA PRIN	г																		
•	NTERIOR: FOR D	OORS D106, D107,	, D108, D10	9, D201																				
ŀ	IM DOOR FRAME IM DOOR COLOU	COLOUR - SING T R - SNAPPY DRES	IME # P522 Ser #P522	2 1-34D BY PAR 2 1-24 BY PARA	RA PRINT A PRINT																			

D1

 $\bigcirc \frac{\text{Door Legend}}{1:25}$

1 SOUTH ELEVATION 1:100

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ARCHITECTS Z FRANCESCO ALAHMO
ISSUED FOR TENDER
D.Issued ForDateISSUED FOR BUILDING PERMIT2023-08-08ISSUED FOR TENDER2025-01-20
Oranaeville
alaimo
architecture
551 Weston Road, Suite 202 aughan, Ontario : (905) 856-2840 (905) 856-4912
rawing Title
LEVATIONS
^{Dject} RANGEVILLE OPERATIONS ENTRE EXPANSION
0 C Line, Orangeville, ONTARIO L9W 4Z3
Scale Issued by D.C. File No. 2022-008 Plot Date
A-300

3 SECTION DETAIL AT PARAPET TYPICAL 1:5

5 FOUNDATION WALL DETAIL

ROOF TYPES

HOT APPLIED 2 PLY ASPHALT ROOFING

2 PILES OF TYPE 4 ORGANIC FELTS

(REFER TO SPECS) R VALUE MINIMUM R32

1 PLY OF STRESS BASE 80 IN HOT ASPHALT

TOP COAT WITH HOT ASPHALT (TYPE III AT EVT)

RELATED APPLICATIONS & CONDITIONS.

1/2" DENSDECK PRIME MECHANICALLY FASTENED TO DECK

2 LAYERS OF 2 1/2" ATLAS AC FOAM POLYISOCYANURATE INSULATION

1 PLY OF STRESS PLY MAX. SBS MODIFIED MEMBRANE IN HOT ASPHALT

1/2" HIGH DENSITY, ASPHALT COATED FIBERBOARD INSULATION

USE GARLAND CANADA INC. STANDARD DETAILS FOR ALL ROOF

R1

EW-1 125mm (5") INSULATED METAL PANEL

EXTERIOR FACE 22 ga PROFILE - NORBEC MICRORIB COLOUR- RIGEL 2 GREY (QC 9789) INTERIOR FACE 24 ga

PROFILE - NORBEC SMP SMOOTH COLOUR- BRIGHT WHITE EFFECTIVE R VALUE= 37.05

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NOREX-L SUPPLIED BY NORBEC, QUEBEC, CANADA

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ORANGEVILLE OPERATION CENTRE

500 C LINE, ORANGEVILLE, ON

EXPANSION

PROJECT NO.: B22-367.32

DRAWING LIST

- E1 ELECTRICAL SPECIFICATIONS
- E2 ELECTRICAL SLD, LEGEND AND SCHEDULES
- E3 ELECTRICAL DEMOLITION PLAN
- E4 PROPOSED POWER PLAN GROUND FLOOR
- E5 PROPOSED CEILING PLAN GROUND FLOOR
- E6 PROPOSED POWER PLAN MEZZANINE
- E7 PROPOSED CEILING PLAN MEZZANINE
- E8 ELECTRICAL DETAILS

ISSUED FOR TENDER

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

ELECTRICAL SPECIFICATIONS

<u>PART A – GENERAL</u>

- 1. 1. SCOPE OF WORK
- 1.1. THE ENGINEER HAS NOT SUBMITTED THE CONTRACT DRAWINGS TO THE ELECTRICAL SAFETY AUTHORITY FOR APPROVAL. ESA COMMENTS SHALL BE IN-CORPORATED IN THE PROJECT USING NORMAL CONTRACT PROCEDURES. CO-ORDINATE WITH THE AUTHORITIES AND PROVE ADDITIONAL INFORMATION AS REQUIRED.
- 1.2. THE ELECTRICAL CONTRACTOR SHALL ACT AS THE OWNER'S AGENT IN ACCORDANCE WITH SECTION 2 OF THE O.E.S.C. AND SHALL IMMEDIATELY UPON AWARD OF THE CONTRACT, SUBMIT TO ELECTRICAL INSPECTION DEPARTMENT, THE NECESSARY NUMBER OF DOCUMENTATION FOR EXAMINATION, INSPECTION AND APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. PAY ALL COSTS AND ASSOCIATED FEES.
- 1.3. PROVIDE CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION, UPON COMPLETION OF WORK.
- 1.4. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT / DESIGNERS' DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, FINISHES AND COLOURS.
- 2. BUILDING STANDARDS
- 2.1 COMPLETE ALL ELECTRICAL WORK IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE BASE BUILDING SPECIFICATIONS, DRAWINGS, AND STANDARDS TO THE SATISFACTION OF THE CONSULTANT AND/OR THE BUILDING OWNER. THE AVAILABLE BASE BUILDING DOCUMENTS WILL BE MADE AVAILABLE FOR REVIEW BY THE BUILDING OWNER IF SO REQUIRED.
- 2.2 ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH UP TO DATE ONTARIO ELECTRICAL SAFETY CODE.
- 3. SITE VISIT
- 3.1 THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL DRAWINGS CAREFULLY TO DETERMINE THE EXTENT OF WORK AFFECTING THE EXISTING BUILDING. DETERMINE AND INCLUDE IN THE TOTAL PRICE, THE TOTAL COST OF LABOUR AND MATERIAL TO DISCONNECT, REMOVE, RELOCATE, BLANK OFF, REROUTE OR MAKE SAFE ALL EXISTING SERVICES, CONDUITS, WIRE, BOXES, LUMINAIRES AND EQUIPMENT AS REQUIRED.
- 3.2 NO CLAIM FOR EXTRA PAYMENT SHALL BE MADE FOR EXTRA WORK MADE NECESSARY BY CIRCUMSTANCES ENCOUNTERED DUE TO CONDITIONS WHICH WERE VISIBLE UPON, OR REASONABLY INFERABLE FROM AN EXAMINATION OF THE SITE PRIOR TO SUBMISSION OF THE BID PRICE. THIS SHALL INCLUDE THE EXISTING SERVICES ABOVE CEILING
- 4. PERMITS & INSPECTIONS
- 4.1 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS AS REQUIRED OR REQUESTED.
- 4.2 ONCE THE ELECTRICAL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH CERTIFICATES VERIFYING THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH ALL CODES, BUILDING STANDARDS AND ALL AUTHORITIES HAVING JURISDICTION.
- 5. INSURANCE
- 5.1 PROVIDE INSURANCE FOR THE DURATION OF THE PROJECT TO PROTECT THE BUILDING OWNER, TENANT, AND TRADES FROM ALL CLAIMS. SUBMIT, AT THE TIME OF THE BID, PROOF OF AN AMOUNT ACCEPTABLE TO BUILDING OWNER AND TENANT IN ACCORDANCE WITH FRONT END REQUIREMENTS OF THE SPECIFICATIONS.
- 6. CONTRACT DOCUMENTS
- 6.1 THE DRAWINGS ARE DIAGRAMATIC ONLY. DO NOT SCALE OR MEASURE DRAWINGS, BUT OBTAIN INFORMATION REGARDING ACCURATE DIMENSIONS, LENGTHS, ETC. BY SITE MEASUREMENTS.
- 6.2 REPORT ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS, ELECTRICAL DRAWINGS AND BUILDING CONDITIONS AFFECTING PRICE OR INSTALLATION TO THE ENGINEER PRIOR TO SUBMITTING BID.
- 6.3 CO-OPERATE WITH OTHER TRADES, CONTRACTORS IN LAYING OUT OF WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHERS.
- 6.4 IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR PROVIDES COMPLETE AND OPERATIONAL SYSTEMS AS REQUIRED. WHERE DIFFERENCES OCCUR, THE MAXIMUM CONDITIONS SHALL GOVERN.
- 6.5 ANY MISCELLANEOUS ITEMS, HARDWARE, DEVICES, FIRE ALARM TESTING OR FACTORY PROGRAMMING, CIRCUIT CONTROL, RELAY MODULES, POWER OFF RELAY, WIRING, ETC NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR THE OPERATION OF THE SYSTEM, MUST BE PROVIDED AND INCLUDED AS PART OF THE BID PRICE.
- 6.6 WHENEVER DIFFERENCES OCCUR BETWEEN PLANS AND DIAGRAMS, SCHEMATICS, AND BETWEEN SPECIFICATIONS AND DRAWINGS, THE MAXIMUM CONDITION SHALL GOVERN AND THE TENDER SHALL BE BASED ON WHICHEVER IS THE GREATER AMOUNT.
- 7. RECORD DRAWINGS
- 7.1 KEEP A RECORD SET OF DRAWINGS ON THE SITE ON WHICH SHALL BE CLEARLY INDICATED, THE EXACT LOCATION OF ALL OUTLETS, FIXTURES, FEEDER RUNS, PANELS, CONDUITS, JUNCTION BOXES, PULL BOXES, ETC. INFORMATION ON THESE DRAWINGS SHALL BE INCORPORATED IN THE AS-BUILT DRAWINGS UPON COMPLETION OF THE PROJECT.
- 8. WARRANTY
- 8.1 THE CONTRACTOR SHALL PROVIDE THE TENANT WITH A WRITTEN ONE-YEAR WARRANTY, COMMENCING ON THE DATE OF ACCEPTANCE. THE WARRANTY SHALL COVER THE COMPLETE ELECTRICAL INSTALLATION. THE ELECTRICAL CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTS IN MATERIALS OR WORKMANSHIP THAT OCCUR DURING THE WARRANTY PERIOD AT A TIME CONVENIENT TO THE TENANT/BUILDING OWNER, AND AT NO EXTRA COST.
- 9. AS-BUILTS
- 9.1 PROVIDE AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION AS SCANNED COPIES OF RED-LINE MARKUPS.
- 9.2 AS-BUILT DRAWINGS SHALL INCORPORATE ALL CHANGES AND DEVIATIONS FROM TENDER DRAWINGS, INCLUDING ALL MAIN CONDUIT RUNS, CABLE TRAYS, JUNCTION BOXES, AND INFORMATION RECORDED ON RECORD DRAWINGS DURING CONSTRUCTION.
- 9.3 ENGINEER'S STAMP AND COMPANY LOGO SHALL BE REMOVED FROM DRAWINGS. DRAWINGS SHALL BE MARKED "AS-BUILT" ALONG WITH ELECTRICAL

CONTRACTOR'S NAME.

- 11. CLOSE-OUT DOCUMENTS
- 12.1 AFTER COMPLETION OF THE PROJECT, PROVIDE THE FOLLOWING DOCUMENTS TO THE BUILDING OWNER.
- FULL SIZE AS-BUILT DRAWINGS ALONG WITH DISK(S)
- HYDRO / ESA ELECTRICAL INSPECTION REPORT.
 FIRE ALARM VERIFICATION REPORT AND CERTIFICATE.
- <u> PART B EXECUTION</u>

WRITTEN WARRANTY.

- 1. WORKMANSHIP
- 1.1 ALL WORK SHALL BE CARRIED OUT AND PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT/DESIGN CONSULTANT. ANY UNSATISFACTORY WORK BY THIS DIVISION SHALL BE REPLACED WITHOUT EXTRA COST TO THE OWNER.
- 1.2 THE CONSTRUCTION SITE SHALL BE KEPT CLEAN AND ANY DEBRIS AND CONSTRUCTION MATERIAL SHALL BE REMOVED FROM THE SITE THROUGHOUT THE CONSTRUCTION PERIOD AND ON COMPLETION OF THE WORK.
- 1.3 PROVIDE TOOLS AND CLEAN UP EQUIPMENT. OBTAIN OWNER'S PERMISSION FOR THE USE OF BASE BUILDING'S ELECTRICAL PLUMBING AND DRAINAGE OUTLETS. PROVIDE DAILY CLEAN UP AND PROPER DISPOSAL OF DEBRIS GENERATED BY THIS DAILY OPERATION.
- 2. DEMOLITION
- 2.1 VISIT THE SITE. EXAMINE THE EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE EXTENT OF THE NECESSARY REMOVAL, RELOCATION, RECONNECTING, AND REROUTING OF ELECTRICAL EQUIPMENT AND WIRING AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
- 2.2 REMOVE ALL EXISTING ELECTRICAL COMPONENTS, WIRES AFTER HYDRO METER.
- 2.3 REMOVE ALL DATA AND VOICE LINE EXCEPT INCOMING CABLE AT ELECTRICAL ROOM.
- 3. COMPLETION OF CONTRACT
- 3.1 ALL THE INSTALLED EQUIPMENT MUST BE CLEANED AND TESTED BEFORE FINAL ACCEPTANCE BY OWNER. PROVIDE WRITTEN WARRANTY FOR ONE YEAR FOR ALL SYSTEMS AS REQUIRED.
- 3.2 PROVIDE AS-BUILT DRAWINGS OF THE INSTALLATION TO THE ENGINEER FOR REVIEW. DRAWING FILES CAN BE OBTAINED FROM THE CONSULTANT.
- 3.3 INCORPORATE ALL CHANGES AND DEVIATIONS FROM THE TENDER DRAWINGS, SUBMIT A SET OF PRINTS TO THE CONSULTANT FOR REVIEW AND APPROVAL. MODIFY THE AS-BUILT DRAWINGS AS PER COMMENTS FROM THE ENGINEERS FOR PRESENTATION TO OWNER.
- 4. SCHEDULING
- 4.1 ALL WORK SHALL BE SCHEDULED AND COORDINATED TO AVOID ANY CONFLICTS WITH OTHER TRADES, BUILDING OWNER AND TENANT(S) DURING OR AFTER CONSTRUCTION. ALLOW FOR ALL NECESSARY PREMIUM TIME, ALL ALLOWANCE FOR THIS SHALL BE INCLUDED IN THE TENDER PRICE.
- 5. DELIVERY OF EQUIPMENT
- 5.1 DELIVERY SCHEDULE OF ALL MAJOR ITEMS OF EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR AT THE START OF THE PROJECT. FAILURE TO IDENTIFY DELIVERY PROBLEMS MAY RESULT IN DELAY CLAIMS.
- 6. TEMPORARY POWER
- 6.1 PROVIDE TEMPORARY ELECTRICAL POWER FOR THE WORK OF THIS TRADE AND OTHER TRADES AS REQUIRED BY THE GENERAL CONTRACTOR OR THE TENANT.
- 7. ROUTING OF EQUIPMENT
- 7.1 NEW CONDUITS AND OTHER NEW SERVICES SHALL BE CAREFULLY ROUTED SO THAT THEY DO NOT INTERFERE WITH ANY EXISTING INSTALLATIONS. ROUTING OF EQUIPMENT IN BUILDING COMMON AREAS AND RISER ROOMS SHALL BE REVIEWED AND APPROVED BY BUILDING OWNER PRIOR TO INSTALLATION. ANY EXISTING CONDUITS, CABLE TRAYS, BUS DUCTS OR OTHER SERVICES THAT INTERFERE WITH THE NEW INSTALLATION SHALL BE RELOCATED UNDER THIS CONTRACT.
- 8. CUTTING AND PATCHING
- 8.1 ALL CUTTING AND PATCHING REQUIRED TO THE BUILDING STRUCTURE FOR THE WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT, UNLESS OTHERWISE ADVISED BY THE GENERAL CONTRACTOR. OBTAIN APPROVAL FROM OWNER PRIOR TO ANY CUTTING.
- 8.2 WHERE CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOORS, PROVIDE PROPER FIRE STOPPING MATERIAL THAT BEARS LABEL OF CSA AND ULC, AND MAINTAIN FIRE RATING. ALL SEALANT SHALL BE OF RE-ENTRANT TYPE WHERE APPLICABLE.
- 9. ACCESS PANEL
- 9.1 ACCESS PANELS SHALL BE PROVIDED IN CEILINGS WHERE JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT CAN NOT BE LOCATED IN ACCESSIBLE LOCATIONS PROVIDED THAT APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECT/DESIGN CONSULTANT.
- 10. NOISE & VIBRATION
- 10.1 CARRY OUT THE WORK WITH A MINIMUM OF NOISE, DUST AND DISTURBANCE. ALL ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION TO THE OWNER'S SATISFACTION.
- 11. GROUNDING
- 11.1 ALL GROUNDING SHALL CONFORM TO THE ELECTRICAL SAFETY CODE AND LOCAL AUTHORITY REQUIREMENTS.
- 12.2 PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY POWER CONDUIT TO ALL DEVICES, LUMINAIRES, EQUIPMENT, AND WITH ALL FEEDERS.
- 13. DIRECTORY
- 13.1 PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW AND EXISTING PANELBOARDS WITHIN THE AREA OF WORK, TO REFLECT THE LATEST REVISIONS. LABELING TO BE BASED ON ROOM NUMBERS AND/OR LOCATION AND LOAD TYPES.
- 14. INTERRUPTION OF SERVICES
- 14.1 THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION

SPECIFICATIONS

TO THE EXISTING SERVICES. THE EXISTING BUILDING MUST BE KEPT IN OPERATION AT ALL TIMES. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT SCHEDULED TIMES. INTERRUPTIONS SHALL BE SCHEDULED WITH THE ARCHITECT/DESIGN CONSULTANT PRIOR TO COMMENCING WORK. OVERTIME WORK THAT MAY BE REQUIRED TO TIE-IN SERVICES AT NIGHT OR ON WEEKENDS SHALL BE INCLUDED IN THE TENDER AMOUNT.

15. DEFECT OR INTERFERENCE

15.1 EXAMINE THE WORK OF THE OTHER TRADES, AS THEY AFFECT THIS DIVISION. REPORT AT ONCE TO THE ARCHITECT/DESIGN CONSULTANT ANY DEFECT OR INTERFERENCE THAT MAY AFFECT THE WORK OF THIS DIVISION OR THE GUARANTEE OF THIS WORK.

16. MODIFICATIONS TO EXISTING ELECTRICAL SERVICES

16.1 VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE EXTENT OF THE NECESSARY REMOVAL, RELOCATION, RECONNECTING AND RE-ROUTING OF ELECTRICAL EQUIPMENT AND WIRING AS REQUIRED FOR THE COMPLETION OF THE PROJECT. REVIEW AND CONFIRM WITH THE ARCHITECT'S DRAWINGS FOR THE COMPLETE EXTENT OF DEMOLITION AND ALTERATION.

16.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING ALL ELECTRICAL EQUIPMENT FROM AREAS BEING ALTERED OR DEMOLISHED. WIRING, CONDUIT AND EQUIPMENT WHICH IS REQUIRED TO MAINTAIN SERVICE IN OTHER PARTS OF THE BUILDING SHALL BE TEMPORARILY SUPPORTED, REROUTED, SERVICED OR RELOCATED AS REQUIRED.

16.3 EQUIPMENT TO BE RELOCATED SHALL BE VERIFIED FOR WORKING CONDITION. PROVIDE NEW IF NECESSARY AND FEASIBLE. EXTEND WIRING/CONDUIT AND RECONNECT TO SUIT.

16.4 OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK AS FAR AS POSSIBLE, AND SHALL BE REMOVED. ALL EXISTING WIRING NOT REMOVED SHALL BE DISCONNECTED, BLANKED-OFF AND MADE SAFE.

16.5 UNLESS OTHERWISE ADVISED, ALL BASE BUILDING LUMINAIRES, TRANSFORMERS, PANELBOARDS AND DISCONNECT SWITCHES WHICH ARE REMOVED SHALL BE HANDED OVER TO THE BUILDING OWNER.

16.6 ALL REMOVED EQUIPMENT AND MATERIALS WHICH ARE NO LONGER REQUIRED, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE WORK.

17. WORK IN AREAS WITHOUT CEILINGS / EXPOSED CEILING STRUCTURAL

17.1 ALL CONDUITS AND RACEWAYS MUST BE INSTALLED NEATLY IN APPEARANCE, RUNNING PARALLEL TO BUILDING LINES, AND AS HIGH AS POSSIBLE. PROVIDE PROPER BENDS AND/OR FITTINGS WHERE EQUIPMENT CROSSES BEAMS, DUCTWORKS, PIPES, ETC.

17.2 MOUNTING HEIGHT OF SUSPENDED LUMINAIRES TO BE COORDINATED WITH ARCHITECT/DESIGN CONSULTANT, SITE CONDITIONS, AND ALL TRADES PRIOR TO ORDERING LUMINAIRES AND WORK. MOUNTING HEIGHT OF EXIT SIGNS SHALL BE AS HIGH AS POSSIBLE AND TO MEET CODE. PROVIDE CONDUIT STEM MOUNT AS REQUIRED. EXIT SIGNS ARE TO BE VISIBLE FROM THE EXIT APPROACH AND NOT OBSTRUCTED BY ANY ELEMENTS, INCLUDING LUMINAIRES, SIGNAGES, BULKHEADS, DUCTWORK, ETC. MOUNTING HEIGHT OF EMERGENCY HEADS SHALL BE MAXIMUM 9'-0" A.F.F. PROVIDE CONDUIT STEM MOUNT AS REQUIRED. ENSURE HEADS ARE FREE FROM OBSTRUCTION AND ILLUMINATION INTERFERENCE.

17.3 ENSURE THAT ALL EXISTING AND NEW CEILING MOUNTED EQUIPMENT, INCLUDING JUNCTION BOXES, RECEPTACLES, SPEAKERS, FIRE ALARM DEVICES, ETC. ARE PROPERLY SUPPORTED AND SECURED TO THE STRUCTURE. PROVIDE NEW BLANK COVERPLATE TO EXISTING JUNCTION BOXES AS REQUIRED.

<u> PART C – MATERIAL 1</u>

1. GENERAL

1.1 ALL MATERIALS AND EQUIPMENT SHALL BE NEW, C.S.A. CERTIFIED AND MANUFACTURED TO THE STANDARDS SPECIFIED. WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT C.S.A. CERTIFIED, OBTAIN SPECIAL APPROVAL FROM LOCAL ELECTRICAL SAFTY AUTHORITY.

2. WIRE AND CABLE

2.1 ALL WIRE AND CABLES FOR ELECTRICAL DISTRIBUTION / POWER SHALL BE COPPER, MINIMUM #12 GAUGE. NO. 12 AND NO.10 SOLID, NO.8 AND LARGER STRANDED, WITH RW90 INSULATION, 600 VOLT RATING UNLESS OTHERWISE NOTED. BX RUN IN CEILING SPACE SHALL NOT EXCEED 10 FT IN LENGTH.

2.2 SIZE ALL WIRE FOR MAXIMUM 2% VOLTAGE DROP AT THE OUTLETS.

2.3 PROVIDE FIRE RATED WIRING FOR ALL NEW FIRE ALARM CONNECTIONS IN ACCORDANCE WITH THE LATEST BUILDING CODE REQUIREMENTS AND AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.

2.4 MEGGER ALL POWER CIRCUIT FEEDERS. IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA, SUCH CIRCUIT IS TO BE CONSIDERED DEFECTIVE AND MUST BE REPLACED.

3. CONDUIT, CONDUIT FITINGS AND BOXES

3.1 INSTALL CONDUITS TO CONSERVE HEADROOM, PARALLEL AND PERPENDICULAR TO BUILDING LINES. DO NOT CADDIE CLIP CONDUITS TO CEILING HANGERS. PROVIDE SEPARATE INDEPENDENT SUPPORTS. ALL EMPTY CONDUITS SHALL BE COMPLETE WITH NYLON PULL STRING.

3.2 JUNCTION BOXES AND PULL BOXES SHALL BE SUITABLE FOR SURFACE MOUNTING AND BE OF WELDED STEEL CONSTRUCTION WITH SCREW-ON FLAT COVERS.

3.3 INSTALL JUNCTION BOXES AND PULL BOXES IN INCONSPICUOUS BUT ACCESSIBLE LOCATIONS.

3.4 A MINIMUM OF ONE PULL BOX SHALL BE INSTALLED FOR EVERY 30M OF CONDUIT. NO MORE THAN TWO (2) 90 DEG. BENDS SHALL BE INSTALLED BETWEEN ANY TWO ADJACENT PULL BOXES.

3.5 OUTLET BOXES SHALL BE ELECTRO-GALVANIZED STEEL, SIZED AS REQUIRED BY CODE. PROVIDE EACH LIGHT SWITCH, RECEPTACLE, FIRE ALARM DEVICE AND OTHER ELECTRICAL DEVICE WITH AN OUTLET BOX. INSTALL PLUMB AND TRUE.

3.6 PROVIDE BLANK COVERPLATES FOR BOXES WITHOUT WIRING DEVICES.

3.7 TWO OR MORE OUTLET BOXES THAT INSTALLED AT THE SAME LOCATION SHALL BE GANGED TOGETHER IN THE SAME COVERPLATE UNLESS NOTED OTHERWISE.

3.8 CONDUIT IN CEILINGS AND PARTITIONS SHALL BE IN EMT CONDUIT WITH STEEL SETSCREW COUPLING AND CONNECTORS.

3.9 CONDUIT INSTALLED IN SLABS SHALL BE IN RIGID PVC CONDUIT.

3.10 PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTION TO TRANSFORMERS AND

MOTORS, MINIMUM 1M (3') LENGTH.

- 3.11 ALL CONDUITS FOR COMMUNICATION WIRING SHALL BE INSTALLED WITH BUSHINGS AT EACH END. CONDUITS SHALL BE TERMINATED ON EQUIPMENT RACK, BACKBOARD OR CABLE TRAY WITHIN THE ROOM.
- 4. RECEPTACLES
- 4.1 DUPLEX RECEPTACLES SHALL BE 120 VOLT, 15 AMP, 5–15R AND SPECIFICATION GRADE UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND COLOUR WITH ARCHITECT/DESIGN CONSULTANT PRIOR TO INSTALLATION.
- 4.2 MANUFACTURER: LUTRON FOR SCREWLESS COVERPLATES (UNLESS OTHERWISE NOTED)
- 5. COVERPLATES
- 5.1 EXPOSED COVERPLATES SHALL BE MANUFACTURER OF LUTRON SCREWLESS, FINISH COLOUR AS PER AKB SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 6. FIRE ALARM SYSTEMS
- 6.1 EXISTING FIRE ALARM SYSTEM TO REMAIN.
- 6.2 SUPPLY AND INSTALL NEW FIRE ALARM DEVICES AS SHOWN ON DRAWINGS. CONSULT WITH BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER.
- 6.3 RETAIN THE SERVICES OF THE BASE BUILDING FIRE ALARM CONTRACTOR TO PROGRAM MAIN FIRE ALARM PANEL, TEST AND VERIFY NEW EQUIPMENT.
- 7 SURFACE MOUNTED RACEWAYS
- 7.1 SURFACE MOUNTED RACEWAYS SHALL BE EXTRUDED ALUMINUM, SATIN ANODIZED FINISH, LOW PROFILE, WITH A NOMINAL THICKNESS OF 0.06" (1.5mm).
- 7.2 RACEWAY SHALL BE SINGLE CHANNEL COMPLETE WITH TWO CIRCUITS, WITH ALTERNATING RECPTACLE ARRANGEMENT.

Drawing Notes

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ISSUED FOR TENDER

4.	ISSUED FOR BUILDING PERMIT & SPA	23 AUG. 08	СР
3.	ISSUED FOR PERMIT & TENDER	23 AUG. 04	СР
2.	ISSUED FOR FINAL REVIEW	23 JAN. 16	DB
1.	ISSUED FOR REVIEW	22 DEC. 12	DB
No.	Revision	Date	Ву

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title	
ELECTRICAL	
SPECIFICATIONS	

Drawn By JW Scale As Shown Designed By JW Date December 9, 2022 Project Number **B22-367.32**

Sheet Number

E1

			LIGHTING	SCHEDU	E				
TVDE		DESCRIPTION			LAI	MP DATA			DEMADIAS
IIFE	MARE / MODEL	DESCRIPTION	VULIAGE	No.	. TYPE WATTS COLOU		COLOUR	MOUNTING	REMARKS
'A'	BJ TAKE BLHV-2-20L-840-L49-MTX	WASHDOWN RATED HIGHBAY	120V	1	LED	129 W	4000K	SUSPENDED	_
'В'	BJ TAKE BLHN-2-12L-840-UNV-L16-MTX	HIGHBAY	120V	1	LED	82.9 W	4000K	SUSPENDED	_
'С'	BJ TAKE BLSP-S-4-4.5L-L18-MTX	STRIP LIGHT	120V	1	LED	36 W	4000K	SURFACE	-
'C1'	BJ TAKE BLSP-S-4-6.5L-L18-MTX	STRIP LIGHT	120V	1	LED	32 W	4000K	SURFACE	-
'C2'	BJ TAKE BLV-H-4-4.5L-840-L16	WALL MOUNT STRIP	120V	1	LED	31W	4000K	WALL MOUNT	SELECT KIT FOR WALL MOUNTING
'D'	EIKO CANADA FPH3-2250GP40-3-MTX-SMK22-FPHACK11	SUSPENDED 2'X2' FLAT PANEL	120V	1	LED	14W	4000K	RECESSED	_
Έ'	LUMACON LDS-LFC-60-DB-T3-1-40-WM	EXTERIOR WALLPACK	120V	1	LED	60W	4000K	WALL MOUNTED	COMPLETE WITH LOCAL AUTOMATIC PHOTOCELL CONTROL
¥	STANPRO N SERIES	REMOTE HEAD	12VDC	1/2	LED	4W	N/A	AS SHOWN	CONNECT TO NEAREST AVAILABLE BATTERY PACK
B	STANPRO SLA SERIES	REMOTE HEAD WITH BATTERY PACK	120V	2	LED	4W	N/A	AS SHOWN	BATTERY SHALL BE ABLE TO PROVIDE EMERGENCY POWER FOR MIN 45 MIN
X	STANPRO PRMS SERIES	EXIT SIGN WITH REMOTE HEAD AND BATTERY PACK COMBINATION UNIT	120V	2	LED	4W	N/A	AS SHOWN	BATTERY SHALL BE ABLE TO PROVIDE EMERGENCY POWER FOR MIN 45 MIN
		· · ·				1	ı I		

CHEDULE

ELECTRICAL LEGEND

LUMINAIRE DESIGNATOR LETTER DEMOTES TYPE REFER TO LUMINAIRE SCHEDULE

CEILING MOUNTED EXIT SIGN DIRECTIONAL ARROW(S) AND WALL FACE(S) AS SHOWN

WALL MOUNTED EXIT SIGN DIRECTIONAL ARROW(S) AND WALL FACE(S) AS SHOWN

WALL MOUNTED SINGLE RECEPTACLE (15A, 120V UNLESS OTHERWISE NOTED)

WALL MOUNTED QUAD RECEPTACLE (15A, 120V UNLESS OTHERWISE NOTED)

WALL FEED FOR POWER AND COMMUNICATIONS TO SYSTEM FURNITURE

FLOOR FEED FOR POWER AND COMMUNICATIONS TO SYSTEM FURNITURE

WALL MOUNTED EMERGENCY LIGHTING REMOTE HEAD(S)

CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD(S)

WALL MOUNTED EMERGENCY LIGHTING BATTERY UNIT WITH HEAD(S)

BASE BUILDING FLUORESCENT LUMINAIRE

FLUORESCENT LUMINAIRE

CEILING MOUNTED LUMINAIRE

WALL MOUNTED LUMINAIRE

CEILING SUSPENDED LUMINAIRE

EXIT SIGNS WITH BATTERIES

TOGGLE SWITCH - 120V

SANGED TOGGLE SWITCHES, 2, 3, 4 GANG

WALL MOUNTED DUPLEX RECEPTACLE

WALL MOUNTED SPLIT CIRCUIT RECEPTACLE

WALL MOUNTED DEDICATED RECEPTACLE

WALL MOUNTED VOICE OUTLET

WALL MOUNTED DATA OUTLET

JUNCTION BOX

TRANSFORMER

MOTOR CONNECTION

WALL MOUNTED DATA/VOICE OUTLET

DIRECTION CONNECTION OUTLET

DISCONNECT SWITCH - UNFUSED

SURFACE MOUNTED PANEL BOARD

FIRE ALARM HORN/STROBE COMBINATION UNIT

DUCT TYPE SMOKE DETECTOR W/ REMOTE INDICATION

HEAT DETECTOR – 135° FIXED TEMPERATURE TYPE – CEILING, WALL MOUNTED

DISCONNECT SWITCH - FUSED

FIRE ALARM PULL STATION

CARBON MONOXIDE DETECTOR

OCCUPANCY SENSOR

SMOKE DETECTOR

SMOKE ALARM

CARD READER

DOOR CONTACT

ELECTRIC STRIKE

SECURITY KEYPAD

EXISTING TO REMAIN

ABOVE FINISHED FLOOR

NIGHT LIGHT CIRCUIT

EXISTING TO REMOVED OR RELOCATED

EXISTING IN RELOCATED POSITION

DIMMER SWITCH

3 – WAY SWITCH

WALL WASHER LUMINAIRE

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2	LIGHTING
E2	SCALE: N.T.S.

G⊦	ITING	SC

N SEF	RIES
STANF	PRO
SLA SE	ERIES
STANF	PRO
PRMS S	SERIES

- PANEL 'G1'.
- ELECTRICAL ROOM.
- PROPOSED NOTES:

PROPOSED PARTIAL SINGLE LINE DIAGRAM

3. CONTRACTOR TO SUPPLY AND INSTALL NEW 208V,200A,3PH,4W PANEL 'G2' WITHIN NEW GARAGE ELECTRICAL ROOM INCLUDING UPSTREAM 45kVA TRANSFORMER AND FEED FROM

2. CONTRACTOR TO SUPPLY AND INSTALL NEW 600V,100A,3PH PANEL 'G1' WITHIN NEW GARAGE

ELECTRICAL ROOM FED FROM EXISTING SPLITTER TO FEED NEW GARAGE PANEL.

1. CONTRACTOR TO SUPPLY AND INSTALL NEW 600V,100A,3P FUSED DISCONNECT WITHIN MAIN

MAINS: 200A. MLO
TYPE: <u>POWER PANEL</u>
LOAD DESCRIPTION
EMERGENCY LIGHTING/EXIT SIGN
ELEC RM / OFFICE / MEZZ LIGHTING
REPAIR GARAGE LIGHTING
REPAIR GARAGE LIGHTING
REPAIR GARAGE TASK LIGHTING
OFFICE RECEPTACLES
WASHBAY / EXTERIOR RECEPTACLES
REPAIR GARAGE RECEPTACLES
REPAIR GARAGE RECEPTACLES
OFFICE AC UNIT
EF-1
COMPRESSOR AIR DRYFR
BBH (MEZZANINE)
BBH (MEZZANINE)
CD-1 (ROOFTOP)
<u> </u>

VOLTAGE:	<u>347/600V, 3PH, 4W</u>
MAINS:	100A, MLO
TYPE:	POWER PANEL
	UND DESCRIPTION
00100500	
COMPRESS	UK
VOLTAGE:	<u>120/208V, 3PH, 4W</u>
MAINS:	200A, MLO
TYPE:	POWER PANEL
1	OAD DESCRIPTION

		ł	- 					
						NEW		EXISTING
						MOU	NTING:	SURFACE
						LOCA	ATION:	AS SHOWN
	BRKR. SIZE	CCT. No.	_	PHASE	ſ	CCT. No.	BRKR. SIZE	LOAD DESCRIPTION
	15A	1			Ţ	2	15A	FFH
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		35				36		
		37		,		38	60A	
		39	ļļ			40		 PANEL 'G1'
		41	Ц			42		
					62	NEW MOU	NTING:	EXISTING
					62	NEW MOU LOCA	NTING:	EXISTING SURFACE AS SHOWN
	BRKR. SIZE	CCT. No.		PHASE	G2 	NEW MOU LOCA CCT. No.	NTING: ATION: BRKR. SIZE	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION
	BRKR. SIZE 15A	CCT. No.			c	NEW MOU LOCA CCT. No.	NTING: ATION: BRKR. SIZE 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING
G	BRKR. SIZE 15A 15A	CCT. No. 1 3			C	NEW MOU LOCA CCT. No. 2 4	NTING: ATION: BRKR. SIZE 15A 15A	EXISTING
G	BRKR. SIZE 15A 15A 15A	CCT. No. 1 3 5		PHASE		NEW MOU LOCA CCT. No. 2 4 6	NTING: ATION: BRKR. SIZE 15A 15A 15A	EXISTING
G	BRKR. SIZE 15A 15A 15A 15A	CCT. No. 1 3 5 7			C	NEW MOU LOCA CCT. No. 2 4 6 8	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR
G	BRKR. SIZE 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9		PHASE	C	NEW MOU LOC/ CCT. No. 2 4 6 8 10	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A	EXISTING
G	BRKR. SIZE 15A 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11			c t	NEW MOU LOCA CCT. No. 2 4 6 8 10 12	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR
G	BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A	CCT. No. 1 3 5 7 9 11 13		PHASE		NEW MOU LOCA CCT. No. 2 4 6 8 10 12 14	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A	EXISTING
G	BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A	CCT. No. 1 3 5 7 9 11 13 15				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A	EXISTING
G	BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A 20A	CCT. No. 1 3 5 7 9 11 13 15 17				NEW MOU LOCA CCT. No. 2 4 6 8 10 12 14 16 18	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 15A 3P	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 15A 20A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST HOIST
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 15A 20A 20A	EXISTING
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 22 24 26	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 22 24 26 28	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A 20A 15A 20A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 22 24 22 24 22 24 26 28 30	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH–1 / TH–2 / TH–3 / TH–4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31				NEW MOU LOCA CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 26 22 24 26 28 30 32	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 20A 15A 15A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 22 24 26 28 30 32 34	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH–1 / TH–2 / TH–3 / TH–4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B–1/BP–1/MOTORIZED DAMPER FHP–1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 2P	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 22 24 26 22 24 26 28 30 32 34 36	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 2P 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 26 22 24 26 22 24 26 22 24 26 30 32 34 36 38	NTING: ATION: BRKR. SIZE 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 2P 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 38 40	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15A 15A	EXISTING AS SHOWN SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39 41				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 36 38 40 42	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR AHOIST POWER WASHER POWER WASHER POWER WASHER TH–1 / TH–2 / TH–3 / TH–4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B–1/BP–1/MOTORIZED DAMPER FHP–1 FHP–1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39 31 35 37 39 41 43				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 26 22 24 26 22 24 26 22 24 26 22 24 30 32 32 34 36 38 40 42 44	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39 31 33 35 37 39 41 43				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 24 26 28 30 32 24 26 30 32 34 36 38 40 42 44	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST HOIS
G	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39 31 33 35 37 39 41 43 45 47				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 24 26 28 30 22 24 26 28 30 32 34 36 32 34 40 42 44	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR HOIST POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 13 15 27 29 21 23 25 27 29 31 23 25 27 29 31 33 35 37 39 31 33 5 37 39 41 43 45 47 49				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 36 30 32 34 36 38 40 42 44 46 48 50	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR FHOIST POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
G	BRKR. SIZE 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39 31 33 35 37 39 41 43 45 47 49 51				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 36 30 32 34 36 37 38 40 42 44 46 48 50 52	NTING: ATION: BRKR. SIZE 15A 15A	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING WASH BAY LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR FHOIST POWER WASHER POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1 FHP-1 I
	BRKR. SIZE 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 25 27 29 31 33 35 37 39 41 43 35 37 39 41 43 35 5 7 5 7				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 6 30 32 34 36 30 32 34 36 30 32 34 36 30 32 34 36 37 38 40 42 44 46 48 50 52 54	NTING: ATION: BRKR. SIZE 15A 15A 15A 15A 15A 15A 20A 20A 20A 20A 15A 15A 15A 15A 15A 15A 15A 15	EXISTING SURFACE AS SHOWN LOAD DESCRIPTION WASH BAY LIGHTING NIGHT LIGHTING EXTERIOR LIGHTING GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR GARAGE DOOR OPERATOR FOWER WASHER POWER WASHER POWER WASHER POWER WASHER TH-1 / TH-2 / TH-3 / TH-4 HOT WATER TANK SENSORS MEZZANINE RECEPTACLES B-1/BP-1/MOTORIZED DAMPER FHP-1 FHP-1
	BRKR. SIZE 15A 15A 15A 15A 20A 20A 20A 20A 20A 15A 15A 15A 15A 15A 2P 20A 15A 2P 20A	CCT. No. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 23 25 27 29 31 33 35 37 39 41 33 35 37 39 41 43 45 47 49 51 55 55				NEW MOU LOC/ CCT. No. 2 4 6 8 10 12 14 16 18 20 22 24 6 30 32 34 36 38 40 42 44 46 48 50 52 54 56 56	NTING: ATION: BRKR. SIZE 15A 15A	EXISTING

Drawing	Notes
Diawing	NULCS

- 1. All drawings, plans, models, designs, specifications and other documents prepared by Bold Engineering Inc. ("BOLD") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of BOLD whether the Work is executed or not, and BOLD reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
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ISSUED FOR TENDER

4.	ISSUED FOR BUILDING PERMIT & SPA	23 AUG. 08	СР
3.	ISSUED FOR PERMIT & TENDER	23 AUG. 04	СР
2.	ISSUED FOR FINAL REVIEW	23 JAN. 16	DB
1.	ISSUED FOR REVIEW	22 DEC. 12	DB
No.	Revision	Date	Ву

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title ELECTRICAL LEGEND, SLD AND SCHEDULES

Drawn By JW Scale As Shown Designed By JW Date December 9, 2022 Project Number **B22-367.32** Sheet Number Revision

E2

1. CONTRACTOR TO DEMOLISH AND REMOVE ALL EXISTING DEVICES AS SHOWN. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRING, CONDUIT, BOXES, ETC. BACK TO SOURCE. MAINTAIN ANY CIRCUITS FEEDING EXISTING TO REMAIN

2. CONTRACTOR TO PATCH WALL FINISHES TO MATCH EXISTING FOR REMOVED ELECTRICAL BOXES AND EQUIPMENT.

Drawing Notes

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ISSUED FOR TENDER

4.	ISSUED FOR BUILDING PERMIT & SPA	23 AUG. 08	СР
3.	ISSUED FOR PERMIT & TENDER	23 AUG. 04	СР
2.	ISSUED FOR FINAL REVIEW	23 JAN. 16	DB
1.	ISSUED FOR REVIEW	22 DEC. 12	DB
No.	Revision	Date	Ву

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title **ELECTRICAL DEMOLITION** PLAN

Drawn By	JW	Scale	As Shown
Designed By	JW	Date	December 9, 2022
Project Numbe	er B22- 3	367.32	
Sheet Number	r		Revisio

E3

GROUND FLOOR POWER PLAN

SCALE: 3/16"=1'-0"

E4

E4

Drawing Notes

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ISSUED FOR TENDER

4.	ISSUED FOR BUILDING PERMIT & SPA	23 AUG. 08	СР
3.	ISSUED FOR PERMIT & TENDER	23 AUG. 04	СР
2.	ISSUED FOR FINAL REVIEW	23 JAN. 16	DB
1.	ISSUED FOR REVIEW	22 DEC. 12	DB
No.	Revision	Date	By

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title **PROPOSED POWER PLAN -GROUND FLOOR**

Drawn By JW Scale As Shown Designed By JW Date December 9, 2022 Project Number **B22-367.32**

Sheet Number

E4

1. NIGHT LIGHT FIXTURES TO BE UNSWITCHED SUPPLIED BY G2#4.

Drawing Notes

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ISSUED FOR TENDER

4.	ISSUED FOR BUILDING PERMIT & SPA	23 AUG. 08	СР
3.	ISSUED FOR PERMIT & TENDER	23 AUG. 04	СР
2.	ISSUED FOR FINAL REVIEW	23 JAN. 16	DB
1.	ISSUED FOR REVIEW	22 DEC. 12	DB
No.	Revision	Date	By

Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758

www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title PROPOSED CEILING PLAN -GROUND FLOOR

Drawn ByJWScaleAs ShownDesigned ByJWDateDecember 9, 2022Project NumberB22-367.32

Sheet Number

E5

SCALE: 3/16"=1'-0"

Drawing Notes

- 1. All drawings, plans, models, designs, specifications and other documents prepared by Bold Engineering Inc. ("BOLD") and used in connection with this project are instruments of service for the work shown in them (the "Work") and as such are and remain the property of BOLD whether the Work is executed or not, and BOLD reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
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Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title PROPOSED POWER PLAN -MEZZANINE

Drawn By JW Scale As Shown Designed By JW Date December 9, 2022 Project Number **B22-367.32**

Sheet Number

SCALE: 3/16"=1'-0"

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Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title PROPOSED CEILING PLAN -MEZZANINE

Drawn By JW Scale As Shown Designed By JW Date December 9, 2022 Project Number **B22-367.32**

Sheet Number

E7

3 WALL SWITCH WITH OCCUPANCY SESNOR E8 scale: NTS

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ISSUED FOR TENDER

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Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title

ELECTRICAL DETAILS

Drawn By	JW	Scale	As Shown
Designed By	JW	Date	December 9, 2022
Project Numbe	er B22-3	67.32	
Sheet Number			Revision

E8

ORANGEVILLE OPERATION CENTRE

500 C LINE, ORANGEVILLE, ON

EXPANSION

PROJECT NO.: B22-367.32

DRAWING LIST

- M1 MECHANICAL SPEFICATIONS
- M2 HVAC PLAN
- M3 PLUMBING PLAN
- M4 MECHANICAL SCHEDULES
- M5 MECHANICAL DETAILS

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GENERAL	NOTES:	12.1.	FOR ALL CORING LESS THEN 3" DIA. CONTRACTOR SHALL BE
1. GENER, 1.1.	AL SCOPE OF WORK FURNISH ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS AS WELL AS SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, TESTED AND IN WORKING ORDER, AS SHOWN ON THE DRAWINGS.	12.2.	RESPONSIBLE FOR SCANNING AREA PRIOR TO CORING THROUGH FLOORS/CEILINGS. FOR ALL CORING GREATER THEN 3" DIA. CONTRACTOR SHALL BE RESPONSIBLE FOR X-RAYING AREA PRIOR TO CORING THROUGH FLOORS/CEILINGS.
1.2.	THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE	13. ACCES	S PANELS
1.3.	DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK. ALL WORK SHALL BE FULLY TESTED, COMMISSIONED AND IN GOOD	13.1.	PROVIDE ACCESS PANELS FOR INSTALLATION BY THE GENERAL CONTRACTOR AND ALL SUB-TRADES WHERE REQUIRED FOR SERVICE OF CONCEALED EQUIPMENT INSTALLED BY THIS DIVISION.
	WORKING ORDER AT TIME OF HAND-OVER TO OWNER.	13.2.	PROVIDE 12"x12" (300x300mm) ACCESS PANEL TO ACCESS ANY
2. CODES	AND STANDARDS		DUCT BALANCING BALANCING DAMPERS, SMOKE/FIRE DAMPERS ETC.
2.1.	ALL WORK SHALL CONFORM TO THE MOST RECENT ISSUES OF:	13.3.	PROVIDE FIRE RATED ACCESS PANEL WHERE REQUIRED. RATING TO MATCH
2.1.1.	THE ONTARIO ELECTRICAL SAFETY CODE		
2.1.3.	THE MINISTRY OF THE ENVIRONMENT	14. PENET	RATIONS THROUGH FLOORS AND WALLS
2.1.4.	THE NATIONAL ELECTRICAL CODE	14.1.	UNLESS OTHERWISE SPECIFIED ON DRAWINGS, GLASS FIBRE FIRE RETARDANT INSULATION AND FIRESTOP CAULKING SHALL BE PACKED
2.1.5.	BYLAWS AND REGULATIONS ISSUED BY THE BUILDING AUTHORITY HAVING JURISDICTION		INSTALLATION. FIRESTOP CAULKING SHALL BE "3M FIRE BARRIER" FIRETEMP CAULK OR EQUIVALENT.
2.1.6. 2.1.7.	ASHRAE ASME	14.2.	APPLY FIRESTOP SYSTEMS IN ACCORDANCE WITH 3M'S INSTRUCTIONS OR EQUIVALENT. ALL SYSTEMS SHALL MEET CSA F-SYSTEM RATINGS FOR THE
2.1.8. 2.1.9.	SMACNA NFPA TSSA	147	PARTICULAR FIRE RATING OF THE PENETRATED SURFACE.
2.1.10. 2.1.11. 2.1.12	CSA CGA	14.5.	(REFER TO LIST IN SPECIFICATION PACKAGE).
3. SPECIF	ICATIONS	14.4.	MATERIALS SHALL BE ASBESTOS-FREE ELASTOMERIC MATERIALS OR EQUIVALENT, TESTED, LISTED AND LABELED BY ULC IN ACCORDANCE WITH
3.1. 4. WARRA 4.1	COMPLY WITH THE GENERAL SECTIONS AND APPLICABLE SECTIONS OF THE GENERAL CONTRACT SPECIFICATIONS. NTY WARRANT ALL LABOUR AND MATERIALS INCLUDED IN THIS CONTRACT FOR		CAN 4-S115-M85, AND CAN/ULC-S101-M FOR INSTALLATION IN ULC DESIGNATED FIRE STOPPING AND SMOKE SEAL SYSTEMS, TO PROVIDE A POSITIVE FIRE, WATER AND SMOKE SEAL AND A FIRE RESISTANCE RATING (FLAME, HOSE STREAM AND TEMPERATURE) NOT LESS THAN THE FIRE RATING FOR SURROUNDING CONSTRUCTION. MATERIALS SHALL BE COMPATIBLE WITH ABUTTING DISSIMILAR MATERIALS AND FINISHES.
	A PERIOD OF TWO YEARS FROM DATE OF FINAL ACCEPTANCE OF ALL AREAS. ASSUME FULL RESPONSIBILITY FOR LAYOUT OF ALL WORK AND FOR ANY DAMAGE CAUSED TO OWNER OR OTHERS BY IMPROPER CARRYING OUT OF THE WORK.	14.5.	PROVIDE PIPE SLEEVES FOR ALL PIPING PENETRATION THROUGH FLOOR, WALL AND SLAB. PIPE SLEEVE SHALL BE ONE SIZE LARGER THAN PIPE SIZE (MINIMUM).
5. DRAWIN	IGS	15. DIELEC	TRIC ISOLATION
5.1.	DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED	15.1.	PROVIDE ISOLATION WHEN USING DISSIMILAR MATERIALS, TO PREVENT GALVANIC ACTION.
5.2.	DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASURE BEFORE PROCEEDING WITH THE WORK.	16. VIBRAT	ION ISOLATION
5.3.	CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE	16.1.	W/MOUNTS UNDER FLOOR MOUNTED HVAC EQUIPMENT AS PER
	INTERFERENCES AND INFORMING THE ENGINEER.	17. FLECTE	MANUFACIORER RECOMMENDATIONS.
6.1.	EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE	17.1.	ALL LOW VOLTAGE CONTROL WIRING (<50V) SHALL BE BY THIS DIVISION,
	SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED THESE MUST BE INDICATED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE OWNER/ REGION.	18. PRESS	TO ELECTRICAL DIVISION STANDARDS. JRE TESTING
6.2.	, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES AND SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE QUESTION PERIOD.	18.1.	ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED TO 860 kPa OR 1.5 TIMES SYSTEM OPERATING PRESSURE FOR A DURATION OF 24 HRS UNLESS OTHERWISE INDICATE.
6.3.	ALL NOISY WORK SHALL BE PERFORMED AFTER NORMAL BUSINESS HOURS: BETWEEN 6PM AND 7AM, MONDAY THROUGH FRIDAY; AND ON WEEKENDS, FRIDAY 6PM THROUGH MONDAY 7AM.	19.1.	MAINTAIN A RECORD OF ALL REVISIONS. PREPARE RECORD DRAWINGS IN A NEAT MANNER SHOWING ALL DEVIATIONS IN WORK. ON COMPLETION OF WORK SUBMIT TO THE ENCINEER ONE HARD CORY OF AS PULL
6.4.	COORDINATE SITE ACCESS AND DELIVERIES WITH REGION AND/OR GENERAL CONTRACTOR.		DRAWINGS AND ELECTRONIC FORMAT DRAWINGS (IN AUTOCAD).
7. CLEANI	NG	20.0PERA	SUBMIT FOUR (4) CODIES OF ORM MANUALS TO ENCINEER FOR REVIEW
7.1.	CLEAN PREMISES DAILY AT THE END OF EACH WORK DAY.	20.1.	ALSO INCLUDE 1 COPY IN PDF FORMAT, MANUALS SHALL INCLUDE AS
7.2.	DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY.		ALL NEW EQUIPMENT, TEST AND BALANCING REPORTS, COMMISSIONING REPORTS, WARRANTIES, TRAINING RECORDS, AND OPERATION & MAINTENANCE PROCEDURES.
7.3.	COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE ONCE WORK IS COMPLETE.	21.REMOV SERVIC	E ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS AND ES. FIRESTOP AND SEAL ALL AFFECTED AREAS.
7.4.	ALL MATERIALS TO BE DISPOSED OF CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.	22.SEAL	AND FIRESTOP ALL WALL, FLOOR AND ROOF PENETRATIONS THROUGH FIRE ASSEMBLIES.
8. OPEN	FLAMES AND WELDING	23.CO-CO	RESEMBLIES.
8.1.	NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER.	24. THORO CONDIT	UGHLY INSPECT EXISTING STRUCTURE AND CHECK SITE CONDITIONS WITH ION SHOWN ON CONTRACT DRAWINGS BEFORE PROCEEDING WITH WORK.
8.3.	ADEQUATE NUMBER OF FIRE EXTINGUISHERS MUST RE PROVIDED DURING	WITH [DESIGN INTENT. REPORT ANY DISCREPANCIES TO THE ENGINEER.
	THE OPEN FLAME PROCESS.	25. WELDIN BUREA	IG SHALL BE UNDERTAKEN BY A COMPANY CERTIFIED BY CANADIAN WELDING J UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 OR W47.1.
9. MATERI	ALS	26.MATERI	ALS AND WORK WHICH FAILS TO MEET SPECIFIED REQUIREMENTS WILL BE
9.1. 9.2.	OSE ONLY NEW CSA AND ULC CERTIFIED EQUIPMENT AND MATERIALS UNLESS OTHERWISE INDICATED. ONLY FIRST CLASS WORKMANSHIP WILL BE ACCEPTED WITH RESPECT TO	ACCEP DEFEC REPAIR	TANCE AND REGARDLESS OF PREVIOUS INSPECTIONS. WHEN REJECTED, TIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED, REPLACED OR ED TO THE SATISFACTION OF THE ENGINEER AT NO EXPENSE TO THE
10 SHOP	STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF INSTALLATION WORK.	OWNER PROTECTIC	N OF THE WORK AND ADJACENT PROPERTY:
10.1.	SUBMIT 4 COPIES OF SHOP DRAWINGS, UNLESS OTHERWISE INDICATED.	1. THE (PROPE	CONTRACTOR SHALL PROTECT THE WORK, THE SITE, AND ANY OTHER RTY ADJACENT TO THE SITE FROM DAMAGE WHICH MAY ARISE AS A RESULT
10.2.	FOR ENGINEER'S REVIEW. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW	OF ITS DAMAG RESPO DIRECT	S OPERATIONS UNDER THE CONTRACT AND SHALL BE LIABLE FOR ANY ES WHICH MAY BE ACCESSIONED; AND THE CONTRACTOR SHALL BE NSIBLE FOR MAKING GOOD SUCH DAMAGES AT ITS EXPENSE IN THE MANNER ED BY AND TO SATISFACTION OF ENGINEER.
10.3.	SOVENING ALL RELEVANT DETAILS, DIMENSIONS AND PERFORMANCE. SHOP DRAWINGS MUST BE REVIVED, STAMPED AND SIGNED BY THE CONTRACTOR AND THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO	2. THE C THE C NATUR	CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE FOR AND BEAR COSTS OF PREVENTATIVE MEASURES TO ACCOMMODATE THE FORCES OF E, WHICH CAN RESULT IN FREEZING, FLOODING, OVFRHEATING, OR SIMILAR
11. CUTTIN	G, PATCHING AND PAINTING REQUIREMENTS	CIRCUN	AND FEES:
11.1.	PROVIDE CUTTING, PATCHING AND PAINTING FOR ALL OPENINGS. USE QUALIFIED TRADES FOR THIS WORK. RESTORE FINISHES TO MATCH EXISTING SURROUNDINGS.	1. THE C LICENS TO CC	CONTRACTOR SHALL APPLY FOR AND OBTAIN IN ITS OWN NAME, PERMITS, ES, APPROVALS AND SHALL PAY FEES AND GIVE NOTICES NECESSARY PRIOR MMENCING WORK AND INCIDENTAL TO THE DUF AND LAWFUL PERFORMANCE
11.2.	SUPPLY AND INSTALL APPROVED FIRESTOPS AS REQUIRED TO MAINTAIN	OF TH	E WORK, IN ACCORDANCE WITH THE SPECIFICATIONS.
11.3.	PIPING AND VENTS THROUGH WALL AND ROOF SHALL BE BY THE MECHANICAL DIVISION CONTRACTOR, INCLUDING ALL PATCHING.	2. THE C NOTIFIE OF AC BE PR	CONTRACTOR SHALL ENSURE THAT THE JURISDICTIONAL AUTHORITIES ARE TO OF THE DATE FOR THE COMMENCEMENT OF THE WORK AND THE DATES TIVITY OF THE WORK FOR WHICH MUNICIPAL INSPECTORS ARE REQUIRED TO ESENT. THE CONTRACTOR SHALL SEND A COPY OF ALL CORRESPONDENCES
12.CORING	G REQUIREMENTS	TO TH	E ENGINEER.

SDECIEICATIONS

PROTECT ELECTRONICS FROM CONDENSING MOISTURE.

	SPECIFICATIONS					
3. THE CO	NTRACTOR SHALL BE RESPONSIBLE SHOULD FAILURE OCCUR.		CO/NO2 DETECTION SYSTEM:			LEGEND
<u>GAS PIPIN</u>	<u>).</u>	<u>TRANSM</u> 1.1	ITTERS: HONEYWELL ANALYTICS E3SM-E3SCO & E3SM-E3NO2 PROVIDING CONTINUOUS MONITORING IN AMBIENT AIR OF TWO F	ACTORY-SET ALARM		DIFFUSER/GRILLE X - TYPE
1. PIPE		1.2	LEVELS AND OUTPUTS. THE TRANSMITTER WILL BE CAPABLE OF OPERATING ON A	FULLY-ADDRESSABLE		Y – NECK SIZE Z – AIRFLOW (CFM)
1.1.	STEEL PIPE: TO ASTM A53, GRADE B, SCHEDULE 40, SEAMLESS AS FOLLOWS:		MODBUS RS-485 DIGITAL NETWORK IN A DAISY-CH COMMUNICATION 3000FT MAX PER CHANNEL AND POWER 24V	AIN CONFIGURATION. AC 1000FT MAX PER		TRANSFER GRILL
1.1.1.	NPS 1/2 TO 2, SCREWED.	1.3	CHANNEL. TRANSMITTER WILL HAVE AN ONBOARD DPDT RELAY (RATED AT	5A, 30 VDC OR 250		SPIN ON CONNECTION COMPLETE WITH BALANCING DAMPER
1.1.2.	NPS 2 1/2 AND OVER, PLAIN END.		VAC (RESISTIVE LOAD)) AND CAN BE TRIGGERED THROUGH T THE CONTROL PANEL TO ACTIVATE REMOTELY LOCATED FAN ST	HE PROGRAMMING ON ARTERS WITHOUT THE	-~->	DIRECTION OF AIR FLOW
1.1.3.	JOINING MATERIAL	1.4	NEED FOR A SEPARATE RELAY PACK. SENSOR CELL SHALL HAVE A CONTINUOUS SELF-TEST TO EN:	SURE OPERATION AND	⊳ 	OPEN-ENDED RETURN AIR DUCT WITH ACOUSTIC LINING
1.2.1.	SCREWED FITTINGS: PULVERIZED LEAD PASTE.	1 5	TO PROVIDE EOL NOTIFICATION.			FXISTING PIPING DUCTWORK FOUIPMENT
1.2.2.	WELDED FITTINGS: TO CSA W47.1.	1.5	GAS CARTRIDGE. THE REPLACEABLE GAS CARTRIDGE SHALL BE AND CERTIFIED TO THE TARGET GAS READY FOR OPER	FACTORY CALIBRATED ATION WITHOUT THE		
1.2.3. 1.2.4.	FLANGE GASKETS: NONMETALLIC FLAT. SOLDERED: TO ASTM B32, TIN ANTIMONY 5/5.	1.6	REQUIREMENT FOR SITE CALIBRATION. TRANSMITTER WILL BE CAPABLE OF OPERATING WITHIN RELATIVE	HUMIDITY RANGES		NEW PIPING, DUCTWORK, EQUIPMENT
2. FITTINGS	5		$(-20^{\circ} \text{ C TO } 40^{\circ} \text{ C}).$	-4 F 10 104 F		DOMESTIC COLD WATER (DCW)
2.1. 2.1.1. 2.1.2	STEEL PIPE FITTINGS, SCREWED, FLANGED OR WELDED: MALLEABLE IRON: SCREWED, BANDED, CLASS 150. STEEL PIPE FLANCES AND FLANCED FITTINGS: TO ANSL/ASME B16.5	1.7	ALL SENSORS IN MAINTENANCE BAYS TO BE OUTFITTED PROTECTION.	FOR WATER INGRESS		DOMESTIC HOT WATER (DHW)
2.1.3. 2.1.4.	WELDING: BUTT-WELDING FITTINGS. UNIONS: MALLEABLE IRON, BRASS TO IRON, GROUND SEAT, TO ASTM	CONTRC	L PANEL: HONEYWELL ANALYTICS 301C-DLC		SAN	HUNG SANITARY DRAIN
2.1.5.	A47M. BOLTS AND NUTS: TO ANSI B18.2.1. NUDDLES: SCHEDULE 40. TO ASTM 453	2.1	THE CONTROL PANEL MUST BE CAPABLE OF COMMUNICATING	DIGITALLY WITH THE	 SAN 	BURIED SANITARY DRAIN
2.2.	COPPER PIPE FITTINGS, SCREWED, FLANGED OR SOLDERED:		NETWORKED GAS DETECTION MONITORS ON THREE SEPARA COMMUNICATION CHANNELS.	E RS-485 MODBUS	STM	HUNG STORM DRAIN
2.2.1.	CAST COPPER FITTINGS: TO ANSI B16.18.	2.2	THE CONTROLLER WILL HOUSE FOUR INTERNAL DPDT PROGRAMMABLE ALARM LEVELS (AND WITHIN PROGRAMMABLE	RELAYS AT FULLY TIME DELAYS). THE	 STM -	BURIED STORM DRAIN
2.2.2. 3 VALVES	WROUGHT COPPER FITTINGS: TO ANSI/ASME B16.22.		RELAY RATING WILL BE NO LOWER THAN 5 A, 30 VDC OR LOAD).	250 VAC (RESISTIVE		VENT (PLUMBING)
3.1.	PROVINCIAL CODE APPROVED, LUBRICATED PLUG TYPE.	2.3	THE CONTROLLER MUST INCLUDE A SELF-TEST FUNCTION TH ACTIVATION/DEACTIVATION OF ALL THE PROGRAMMED OUTPUT	AT ALLOWS FOR THE S BY SIMULATING A	G1	NATURAL GAS LINE (MEDIUM PRESSURE 2 PSI)
4. INSTALL	ATION		CONTINUOUS 5% INCREASE/DECREASE VALUE UNTIL THE MAX IS REACHED.	MUM/MINIMUM VALUE		NATURAL CAS LINE (LOW DESSURE 7" WO)
4.1.	INSTALL IN ACCORDANCE WITH APPLICABLE PROVINCIAL CODES.	2.4	THE CONTROLLER MUST INCLUDE A REAL-TIME CLOCK THAT OF THE OUTPUTS FOR A SPECIFIC TIME-FRAME.	ENABLES OPERATION		INATURAL GAS LINE (LUW PRESSURE / WC)
4.2.	INSTALL IN ACCORDANCE WITH CAN/CGA B149.1.	2.5	THE CONTROLLER MUST ALSO INCLUDE AN ENERGY SAVING F FOR OUTPUT OPERATION ON ALARMS SFT AT THE MAX MIN O	EATURE THAT ALLOWS R AVERAGE VALUE OF	SPR	SPRINKLER MAIN
4. <i>3.</i> 4 4	ASSEMBLE PIPING USING FILLINGS MANUFACTURED TO ANSI STANDARDS.		A SPECIFIC GROUP OF TRANSMITTERS. THIS FEATURE MUST A ACTIVATION OF OUTPUTS UPON A CERTAIN NUMBER OF A SP	LSO ALLOW FOR THE ECIFIC GROUP (¾, ½,	S	PIPE CUT
r.Ŧ.	INSTRUCTION UNLESS OTHERWISE INDICATED.	27	3 AND 1/4) OF TRANSMITTERS REACHING THEIR ALARM LEVELS.	F GAS, THE GAS	o	PIPE UP
4.5. 4.6.	SLOPE PIPING DOWN IN DIRECTION OF FLOW TO LOW POINTS.	2.7	DETECTED, AND THE LOCATION OF THE SENSOR BY SWEEPING NETWORK AND DISPLAYING THE DETECTED LEVELS AT EACH POLLOD DISPLAY	THE GAS THROUGH THE NT ON A GRAPHIC	c	PIPE DOWN
.6.1.	AT LOW POINTS IN PIPING SYSTEM.	2.8	INTEGRATE STROBE/HORN, 120V, 85DB @ 10FT MINIMUM WITH	BLUE LENS.	II	UNION
.6.2.	AT EACH CONNECTION TO EQUIPMENT.	2.9	RATINGS AND CERTIFICATIONS		C	CAP OR PLUG
4.7.	USE ECCENTRIC REDUCERS AT PIPE SIZE CHANGE INSTALLED TO PROVIDE POSITIVE DRAINAGE.		CONFORMS TO INTERNATIONAL MECHANICAL AND ELECTRICAL	CODES	——×——	SHUT-OFF VALVE
1.8.	PROVIDE CLEARANCE FOR ACCESS AND FOR MAINTENANCE.		EMI/RFI COMPLIES WITH EMC DIRECTIVE 89/336/EEC CSA CERTIFICATION		•	NON-RETURN VALVE (CHECK VALVE)
4.9.	REAM PIPES, CLEAN SCALE AND DIRT, INSIDE AND OUT.	SEQUEN	CF OF OPERATION			NON-RETURN VALVE (CHECK VALVE) WITH BALL DRIP
4.10.	INSTALL PIPING TO MINIMIZE PIPE DISMANTLING FOR EQUIPMENT REMOVAL.		FIRST ALARM (TWA) SECOND ALA SENSOR LOCATION	RM (STEL)	•	
4.11.	INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL UNLESS OTHERWISE APPROVED BY ENGINEER.	CARBON A.F.F.	MONOXIDE (CO) 25 PPM 100 PPM	1200MM	•	
1.12.	INSTALL VALVES AT BRANCH TAKE—OFFS TO ISOLATE EACH PIECE OF EQUIPMENT, AND AS INDICATED.	NITROGE	IN DIOXIDE (NO2) .72 PPM 2 PPM	AS PER OBC 1500MM A.F.F.		
5. TESTINO		IN		BREATHING		PRESSURE SWITCH
5.1.	TEST SYSTEM IN ACCORDANCE WITH CAN/CGA B149.1 AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.	3.1 WH	IEN FIRST ALARM LEVEL IS ACHIEVED RELAY IS ENERGIZED TO AC N AND OPEN CORRESPONDING DAMPER. PROGRAM A RELAY DELA	IVATE THE EXHAUST Y-OFF OF 2		FLOW SWITCH
5.2.	PURGE AFTER PRESSURE TEST IN ACCORDANCE WITH CAN/CGA B149.1	MI 3.2 WH	NUTES TO ALLOW GAS TIME TO CLEAR.	ΔΤΕ	<u> </u>	PRESSURE GAUGE COMPLETE WITH SHUT-OFF VALVE
SPW-JZ LO	DW INTENSITY TUBE HEATER FOR CAR WASH AND HARSH ENVIRONMENT	INSTALL	ATION & VERIFICATION	AIL.	¤	FLOOR DRAIN
applicatio <u>Radian</u> t ti	NS I <u>BE_HEATERS</u>	4.1	NSTALL HAZARDOUS GAS MONITORING EQUIPMENT INCLUDING SENS	DRS AND CONTROL		ROOF DRAIN
CSA INTERI	NATIONAL APPROVED NATURAL OR PROPANE GAS FIRED RADIANT TUBE HEATERS AS RED BY SCHWANK INC. OR FOLIIVAI FNT HEATER SIZE(S) AND CAPACITY(S) AS NOTED	4.2 IN	NEL AS SHUWN UN CUNTRACT DRAWINGS. STALL CONDUIT AND WIRING FROM SENSORS TO CONTROL PANEL /	ND TO THE FAN		TRAP
ON DRAWING	G OR SCHEDULE.	ST EC GA	ARTERS. COMMUNICATION WIRING 24 GAUGE SHIELDED TWISTED P UIVALENT; 2000FT MAX PER CHANNEL FROM CONTROLLER. POWE UGE; 1000FT MAX FROM THE CONTROLLER.	aik belden 9841 OR R IS 24VAC, 14	 	CLEAN OUT
BOX CONTAI GAS VALVE, SHALL CONS	NING A BURNER ASSEMBLY, DUAL PRESSURE SWITCHES, ELECTRONIC IGNITION CONTROL, CONTROL TRANSFORMER AND BURNER STATUS INDICATOR LIGHTS; AND ADDITIONALLY SIST OF ALUMINIZED STEEL RADIANT TUBING AND REFLECTORS. HANGERS TUBE	4.3 TES	T TO DEMONSTRATE OPERATION OF FUNCTIONS DESCRIBED ABOVE			BACKFLOW PREVENTER
COUPLERS /	ND ELBOWS, AND/OR TURBULATORS AND TEES AS NEEDED.	CE	RTIFICATE OF COMMISSIONING TO BE PRESENTED TO FACILITY OPE	RATORS.	0	GAS OR WATER METER
CONTROI HEAD SI	ALL HAVE THE INFRARED CERAMIC MEDIA FOR IMPROVED COMBUSTION, RESULTING IN SOLIND LEVELS AND REDICED DETRIMENTAL EMISSIONS THE DUDNED DACKAGE SHALL				——————————————————————————————————————	NON-FREEZE HOSE BIBB
BE OF M	ADDULAR CONSTRUCTION ALLOWING EASY REMOVAL FOR MAINTENANCE OR SERVICING.					PUMP (SCHEMATIC)
RESISTAN	T POWDER COATED CABINET TO PREVENT DIRT AND MOISTURE ACCUMULATION, REDUCING MAINTENANCE REQUIREMENTS.				\rightarrow	SIAMESE CONNECTION
AS STAN AND SE	IDARD EQUIPMENT, THE BURNER ASSEMBLY SHALL HAVE TWO SEPARATE FACTORY-SET ALED AIR SAFETY SWITCHES, ONE TO MONITOR INLET AIR PRESSURE AND ONE TO ELLIE PRESSURE (IN THE EVENT OF A PLOCKED AIR INTAKE OD PLOCKED SWITCHES				−Φ ^{FE}	FIRE EXTINGUISHER
VENT, T VISIBLE	HE SYSTEM WILL SHUT OFF). THE BURNER ASSEMBLY SHALL HAVE STATUS LIGHTS FROM THE FLOOR, TO INDICATE THE STATUS OF THE BURNER OPERATION, A				M	MOTORIZED DAMPER
FACIOR	DIANT COMBUSTION CHAMBER TUBING (FIRST 10 FT.) SHALL BE 16 GAUGE ELECTRIC				Ū	THERMOSTAT
RESISTAN HEATERS	NUE WELDED ALUMINIZED STEEL (ALUMATHERM STEEL ON 175 AND 200 MBTUH) WITH 1.05 FT.2 OF RADIATING SURFACE PER RUNNING FOOT.					STARTER
DOWNSTI DOWNSTI ALUMINIZ	DIAINT FIEAT EAUFIAINGER (TU FT., ZU FT., ZU FT., 40 FT., 50 FT. OR 60 FT. REAM OF THE 10 FT COMBUSTION CHAMBER TUBE) SHALL BE 16 GAUGE WELDED YED STEEL.				^-	DIRECTION OF AIR FLOW
4. ALL RAD TO INCF SHALL E	IANT TUBING WILL HAVE SWAGED ENDS FOR EASE AND CONTINUITY OF ASSEMBLY AND REASE THE MECHANICAL INTEGRITY OF THE SYSTEM. AN ALUMINIZED STEEL COUPLING RE USED AT EACH JOINT OF TUBES TO ENSURE CONSISTENT EXPANSION WITH TUBES					ROOF FAN
AND MIN 5. THE RE TUBE T REFLECT	IIMIZE LEAKAGE. FLECTORS SHALL HAVE END PLATE HANGERS AND EXTEND BELOW THE RADIANT O ENTRAP CONVECTION HEAT AND PROVIDE HIGHER RADIANT EFFICIENCY. THE OR / TUBE SYSTEM SHALL HAVE INTERMEDIATE WEBBED HANGERS THAT PROMOTE ASSAGE OF ENTRAPPED CONVECTION HEAT ALONG THE LENGTH OF THE SYSTEM					CEILING MOUNTED EXHAUST FAN
THEREB	PROVIDING INCREASED AND MORE UNIFORM INFRARED HEAT OUTPUT.					
THE RE LOCATED	FLECTORS AT EACH END OF STRAIGHT TUBE RUN. WEBBED HANGERS SHALL BE AT THE END OF EACH REFLECTOR TO SUPPORT THE REFLECTORS AND TUBES.					
7. ALL INT RESISTAN	ERNAL BURNER ELECTRICAL CONNECTIONS SHALL BE COATED TO PROVIDE MOISTURE ICE, AND THE DIRECT SPARK IGNITION CONTROL SHALL BE COMPLETELY POTTED TO					

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title MECHANICAL SPECIFICATIONS

Drawn By	MK	Scale	
Designed By	MK	Date	January 06, 2023
Project Numbe	er B 22-3	367.32	

Sheet Number

Revision

M1

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	2.	ISSUED FOR PERMIT & TENDER	JUL 12,23	МК
	1.	ISSUED FOR 99% REVIEW	DEC.12,22	СВ
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Bold Engineering Inc. 2778 Dufferin Street, Suite 104 Toronto, Ontario, M6B 3R7 Canada

Tel: 416-556-0766 Fax: 1-866-876-5758 www.boldengineering.ca

Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title HVAC PLAN

Drawn By	MK	Scale	3/16"=1'-0"
Designed By	MK	Date	January 06, 2023
Project Numbe	er B 22-3	867.32	

M2

Sheet Number

Ø STM DRAIN TO LOW LEVEL RU WALLS. PROVIDE CONCRETE . (TYP.2)		
		쥠
-//		
EXISTING BUILDI	NG	
1-1/2"ø		BFP
UNG STORM DRAIN PIPING	CONNECT NEW 1-1/2"Ø DCW LINE FROM EXISTING	
THIS POINT. CAP EX WALL D REMOVE SPLASH PAD. M DRAIN TO EX AT THIS	6"¢ MAIN DCW LINE LOCATED AT HEAVY STORAGE ROOM. PROVIDE A RP BFP AT CONNECTION.	
-//		
SH PAD AND ASSOCIATED L (TYP.2)		

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Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title
PLUMBING PLAN

Drawn By	MK	Scale	1/8"=1'-0"
Designed By	/ MK	Date	January 06, 2023
Project Numb	oer B 22		
Sheet Numbe	er		Revisior

M3

IN-FLOOR HEATING BOILER

	LOON				-1 \								
TAG	MAKE/ MODEL	LOCATION	GAS CONN	FLOW RATE		CAPACITY	EFFICIENCY	elect Volt	MAX LOAD	Max Fuse	VENTING Comb Air	WEIGHT	REMARKS
B-1	BUDERUS GB162-80	GARAGE	1 " ø			IN:290 MBH OUT:260 MBH	94%	115/1/60	349W	15A	CAT IV 4"ø O/A 4"ø E/A	200 LBS (OPERATING)	TANKLESS WALL HUNG CON HEADER, GRUNDFOS PUMP SHUT-OFF VALVE, COMBUS INTERLOCK WATER HEATERS

LOW LOSS HEADER (PART OF BP-1)

PUMP SCHEDULE

PUMP NO.	PUMP NAME	LOCATION	MAKE/MODEL	QTY	FLOW GPM	HEAD FT	VOLT & PHASE	VFD	MAGNETIC STARTER	Motor Size HP	REMARKS
BP-1	BOILER CIRCULATOR	IN BOILER	GRUNDFOS UP26-99	1	18 GPM	9	115/1/60	YES		349w	12356
FHP-1	INFLOOR HEAT PUMP	MANIFOLD 1	TAMAS UPS 15-58	1	4	6	120/1/60	ECM			234
FHP-1	INFLOOR HEAT PUMP	MANIFOLD 2	TAMAS UPS 26-99FC	1	12	7.5	120/1/60	ECM		1/6	23
OTES: (1 lead/lag oper 2 alarms & fail	RATION; ONE STA	ND BY PUMP (3) BY BAS (4)	PUMP (CONTROLLER TO BE CIRCULATOR PUMPS	BACNET COMPA	TIBLE BOILER MANUFACT	5 TURER 6	PUMPS TO I PROVIDE FLO	BE MOUNTED ON FL O-TREX VALVE MOD	.00r Supports. El FTV-F,

	IN-FLOOR HEATING MANIFOLD SCHEDULE												APPROVED EQUAL ACCEPTABLE		
TAG	AREA SQ.FT	SERVICE	CONSTRUCTION	HEATING TYP	RH CIRCUITS	TUBE SPACING	TUBING IN RM	MANIFOLD	FLOWRATE GPM	HEAD LOSS (CIRCUIT ONLY)	RH LOAD	fluid Type	SURFACE TEMP	fluid Temp	REMARKS
MF-1	1212	WASHBAY	embedded Slab	RH	12	9"	1616 FT	1	3.64	3.0	36 MBH	WATER	82–85 ° F	119 ° F	COMMERCIAL S/S 1-1/20 WITH FLOW METER & BALL VALVE, 5/8"0 HEATING TUBING
MF-2	4219	REPAIR GARAGE	EMBEDDED SLAB	RH	5	12"	4081 FT	1	12.03	5.5	120 MBH	WATER	82–85°F	119 ° F	COMMERCIAL S/S 1-1/20 WITH FLOW METER & BALL VALVE, 5/8"0 HEATING TUBING

DOMESTIC ELECTRIC WATER HEATER

TAG	MANU.	MODEL	CAPACITY US	ELEMENT (KW)	QTY.		
HWT	SPACESAVER	SS19LSEB1	19	1.5	1	120/1/60	WATER AGA/A PRESS

	REMARKS
)	ELEC BASEBOARD HEATER, COLOR WHITE, 84" LENGTH, 15 LBS. INSTALL BBH ON WALL AT FFE

SPLIT UNIT SCHEDULE									
UNIT NO.	LOCATION	MAKE/MODEL	CFM	VOLTAGE AND PHASE	FAN MOTOR F.L.A	MIN. CIRC. AMPACITY	COOLING CAPACITY	REMARKS	
AC-1	OFFICE RM	MISTSUBISHI MS—A09WA	335	115/1/60	0.95	1.2	9,000	MR SLIM WALL MOUNTED INDOOR UNIT COMPLETE WITH THERMOSTAT.	
CD-1	ROOF	MISTSUBISHI MU—A09WA	-	115/1/60	0.63	14	9,500	MR SLIM OUTDOOR UNIT, (R-410A REFRIGERANT).	

ELECTRIC	FORCED F	LOW HEATER	R SCHEDULE	
MARK	MAKE/MODEL	HEATING CAPACITY	VOLTS/ PHASE	CFM
FFH—1	OUELLET OCA03007-T	3 KW	347/1/60	500

GAS	DETECTION	SCHE	DULE					
TAG	MAKE/MODEL	QTY	OPERATING TEMP (DEG F)	POWER REQD (AC)	POWER REQD (DC)	AUDIBLE ALARM	ACCURACY	DIMENSION H x W x D
CO	HONEYWELL E3SM + E3SCO (CO SENSOR)	8	-4 TO 122	24 Vac 50/60 hz	24 VDc 20-38Vdc	85 dBA at 3 ft	+/- 3% AT 25 C	8.09 x 5.87 x 2.65"
NO2	HONEYWELL E3SM + E3NO2 (NO2 SENSOR)	9	-40 TO 122	24 Vac 50/60 hz	24 VDc 20-38Vdc	85 dBA at 3 ft	+/- 3% AT 25 C	8.09 x 5.87 x 2.65"

BASIS OF DESIGN: NAVIEN APPROVED EQUAL ACCEPTABLE

NDENSING WATER HEATER C/W ALUMINUM HEAT EXCHANGER, INTEGRAL CONTROLLER, LOW LOSS (UP26-99) FLOW CHECK, PRESS GAUGE, SHUT-OFF VALVE, PRESS RELIEF VALVE, GAS STION & VENT PIPING AS PER MANUFACTURERS STANDARD, AND CONDENSATE NEUTRALIZER KIT. WITH BAS, ADD CONTROLS POINT IN BAS PANEL TO MONITOR DHW SYSTEM.

BASIS OF DESIGN: MANUFACTURERS SPECIFIED OR EQUAL

REMARKS HEATER SHALL HAVE THE ULC SEAL OR CERTIFICATION AND BE FACTORY EQUIPPED WITH ASME RATED TEMPRATURE AND PRESSURE RELIEF VALVE. TANK SHALL HAVE A WORKING

SURE RATING OF 150 PSI. WATER HEATER SHALL BE EQUIPPED WITH SURFACE MOUNTED THERMOSTAT WITH AN INTEGRAL, MANUAL RESET, HIGH LIMIT CONTROL. OR APPROVED EQUAL

COMMENTS

WALL MTD UNIT WITH B1 TYPE CONFIGURATION. UNIT TO BE STD WHITE, 18 GAUGE STEEL, HIGH LIMIT TEMP CONTROL WITH AUTO RESET,

SCHEI	ULE		a	RCUIT BALANCING (MET	G VALVE SCHED IRIC)	UE	
N)	MAX. GPM		SIZE	NOM FLO	W (L/S)	MAX. L/S	
1	4.3		15	UP TO	0.20	0.27	
9	9.6		20	0.19	0.44	0.61	
.1	14.5		25	0.43	0.64	0.91	
2	24		32	0.64	1.02	1.51	
ł	32		x	0.95	1.51	2.02	
)	55		50	1.58	2.52	3.5	
0	138		65	2.52	6.3	8.70	
5	200		75	5.99	9.1	13	
5	310		100	9.15	15	20	
0	500		125	14.51	20	32	
0	700		150	20.19	31	44	
0	1250		200	31.55	57	79	
	- CIRCUIT B/ VALVE	ALANCING Dø /IN. REST FITT		UCING FITTIN REQ'D) TYP.	G NOTE: 1.ABO\ ANDER NOMIN OPEN. 2.MEC PROVI	/E SELECTIO ISSON: 1FT AL & 2 PSI HANICAL COM	N BASED ON TOUR & ΔΡ @ MIN, 1 PSI (6.9kPa) (13.8 KPA) MAX AT FULL NTRACTOR MUST SIZE AND RCUIT BALANCING VALVE AS

CIRCUIT BALANCING VALVE DETAIL & SCHEDULE

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Project Name ORANGEVILLE OPERATION CENTRE EXPANSION

500 C LINE. ORANGEVILLE, ON L9W 4Z3

Sheet Title MECHANICAL SCHEDULES

Drawn By	MK	Scale	
Designed B	y MK	Date	January 06, 2023
Project Numb	ber B 22	2-367.32	
Sheet Numbe	er		Revisio

M4

GENERAL STRUCTURAL STEEL **ROOF FRAMING NOTES:** MAKE ALL FIELD MEASUREMENTS REQUIRED FOR FABRICATION. THESE DRAWINGS SHOW THE COMPLETE STRUCTURE. IT IS THE 2. CONFORM TO THE FOLLOWING STANDARDS FOR ALL STEEL, GENERAL CONTRACTOR'S RESPONSIBILITY TO CHOOSE CONSTRUCTION INCLUDING PLATES METHODS AND CARRY OUT THE WORK BASED ON SITE CONDITIONS. - CAN 3 - G40.20 & 21, GRADE 350W (50 KSI) CLASS H FOR HSS, 350W (50 KSI) FOR REMAINDER, READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH - S16 AND S16S3 FOR WORKMANSHIP (ORANGEVILLE) AND Cb=1.0, I=1.0; ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. CHECK - CSA W59 FOR WELDING. ALL DIMENSIONS AND REPORT ANY INCONSISTENCIES BEFORE 3. APPLY ONE COAT SHOP PRIMER CONFORMING TO CGSB-1-GP 40M TO PRIOR TO COMMENCING ANY WORK; PROCEEDING WITH THE WORK. ALL STRUCTURAL STEEL MEMBERS, AND TOUCH UP AFTER ERECTION. 4. SUPPLY ANCHOR RODS F1554 ASTM GRADE 36 (TYP.U/N OTHERWISE). ROOF DESIGN DEAD LOAD PARAMETERS: DESIGN LIVE LOADS FOR EACH PORTION OF THE STRUCTURE ARE 5. SUPPLY ANCHOR BOLTS A325M GRADE (TYP.U/N OTHERWISE). SHOWN. DO NOT EXCEED THESE LOADS DURING CONSTRUCTION. ALL ROOF SYSTEM 3. QUALIFICATIONS: WELDING SHALL BE PERFORMED BY A FABRICATOR LOADS GIVEN ARE UNFACTORED (WORKING) LOADS. JOISTS + BEAMS TOTAL DEAD LOAD FOR THE DESIGN OF STRUCTURE FULLY CERTIFIED TO CSA W47 AND IN ACCORDANCE WITH THE . CONFORM TO THE REQUIREMENTS OF THE (ONTARIO BUILDING CODE), APPLICABLE CSA WELDING CODES. QUALITY CONTROL: AN INDIPENDENT TESTING COMPANY SHALL BE WATER RETENTION ASSESSMENT (MOST RECENT EDITION), AND ANY APPLICABLE LOCAL BUILDING BY-LAWS. POINTED BY GENERAL CONTRACTOR TO CONDUCT TESTS AND D INSPECTIONS. PAYMENT FOR INSPECTION AND TESTING WIL THE BUILDING IS DESIGNED FOR THE LOADS SHOWN ON THE E MADE BY GENERAL CONTRACTOR. FIELD REVIEW REPORTS FOR DRAWINGS AND THOSE LOADS SPECIFIED IN THE RELEVANT PORTIONS OF EL FRAMING ERECTION AND MEMBER CONNECTIONS SHALL E THE CODE AS N.B.C. PARTS 4. (OR EQUIVALENT PROVINCIAL OR CITY CODE) EALED BY P ENG IN ONTARIO AND SENT TO ENGINEER OF RECORD IT IS TO BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE GENERAL LAYOUT PLANS AND DETAIL DRAWING & ANY OTHER SPECIFICATIONS AT EXSENENG11@GMAIL.COM SUPPLIED WITH THE CONTRACT DOCUMENTS, NO PORTIONS OF THE PRODUCTS BUILDING SHALL BE CHANGED OR MODIFIED UNLESS THE WORK INVOLVED .1 STRUCTURAL STEEL AND HOLLOW STRUCTURAL SECTIONS AS PER IS EXECUTED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER. WRITTEN NOTICE AND DETAILS OF ANY SUCH CHANGES OR NOTE #2 ABOVE. .2 SHOP PAINT PRIMER AS PER NOTE #3 ABOVE. MODIFICATIONS SHALL BE GIVEN TO THE ENGINEER PRIOR TO SUCH WORK 3 FABRICATE MEMBERS TO INCORPORATE HOLES & ATTACHMENTS & BEING EXECUTED. ANCHORAGES OF WORK BY OTHERS AS LOCATED AND DIRECTED BY FABRICATION OF OWSJ'S. 6. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND DETAILS IN THEM .4 PRIME PAINT MEMBERS IN SHOP AS SPECIFIED IN CSA S16. FIELD AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES AND INCOMPATIBILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE 9. VERIFY AT SITE THAT WORK TO RECEIVE STRUCTURAL MEMBERS IS DESIGN OF ALL TEMPORARY SUPPORTS, FORMWORK, AND ALL SAFETY ASPECTS OF THE CONSTRUCTION. LOCATED CORRECTLY, AND AT PROPER LEVEL FOR ERECTION. 10.ERECTION TO MEET REQUIREMENTS OF CAN3-S16 1. DO NOT CUT OR DRILL INTO ANY STRUCTURAL MEMBERS OR CUT 1. TOUCH UP FIELD CONNECTIONS AND SCRATCHED OR BURNT REBAR PROJECTIONS WITHOUT THE ENGINEER'S APPROVAL. THE SURFACES OF PRIMED STEEL WITH PRIME PAINT TO MATCH SHOP CONTRACTOR IS RESPONSIBLE FOR LABOUR, MATERIALS & EQUIPMENT COAT WHEN ERECTION IS COMPLETED. WHERE PRIMED SURFACES FOR THE EXECUTION AND QUALITY CONTROL OF THE WORK SHOWN IN THE ARE DAMAGED, REMOVE RUST AND RE-PRIME. CSA-S16-19, CLAUSE 16. CONTRACT DOCUMENTS, INCLUDING ALL WORK OF SUB-CONTRACTORS. 12.HOT-DIP GALVANIZE ALL STEEL MEMBERS IN EXTERIOR WALLS. 13. SUBMIT THREE (3) COPIES OF SHOP DRAWINGS TO THE ENGINEER FIELD REVIEWS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR THE PROPER PERFORMANCE OF HIS WORK IN FOR REVIEW PRIOR TO FABRICATION SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER FOR ALL CONNECTION ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY ERRORS AND/OR OMISSIONS IN THE WORK SHALL BE REPORTED TO THE ENGINEER FOR DETAILS. INTO BOTTOM CHORDS U/N. ON PLAN. FOUNDATIONS YIELD STRESS OF 350 MPa (51 Ksi). CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LOADS. OTHER LOADING AS REQUIRED, FOR TEMPORARY CONDITIONS OF FOUND ALL FOOTINGS ON NATIVE UNDISTURBED SOIL HAVING A 'SLS' CONSTRUCTION MUST BE DESIGNED UNDER THE SUPERVISION OF A BEARING CAPACITY OF 100KPa AND 150 KPa AT 'ULS' AT 1.4m DEPTH PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO. (APPROXIMATE EL. +416.0m) . FOR CONSTRUCTION METHODS AND DETAILS ACCORDING TO CSA-S16.19. REFER TO PAR.7.1 OF GEOTECHNICAL INVESTIGATION REPORT #36304 PREPARED BY THURBER ENGINEERING LTD ON JUNE 28, 23. CONCRETE THE RESISTANCE AT SLS IS BASED ON A FOUNDATION SETTLEMENT OF MINIMUM 28-DAY STRENGTH OF CONCRETE TO BE 25 MPA, UNLESS 25mm TOTAL . DIFFERENTIAL SETTELEMENTS ARE EXPECTED TO BE LESS NOTED ON PLAN THAN 75% OF THIS VALUE AS PER PAR.7.1 OF AFOREMENTIONED SOIL CONFORM TO CSA STANDARD CAN3-A23.1 & 2 FOR MATERIALS AND REPORT METHOD OF CONSTRUCTION UNLESS NOTED OTHERWISE. TOLERANCES: ON THIS DRAWING. THESE DATA SHALL BE CONFIRMED BY A GEOTECHNICAL (SOILS) - FOR TOPS OF FINISHED SLABS, TOPPING AND WALLS - WITHIN 6mm CONSULTANT RETAINED BY G.C. PRIOR TO POURING CONCRETE FOR (1/4") OF ANY 6000mm (20'-0") SQUARE AREA, AND WITHIN 6mm (1/4") FOUNDATIONS. UNDER ANY 3000mm (10'-0") STRAIGHT EDGE: FOR SLABS UNDER APPLIED FINISHED FLOORING MATERIALS- WITHIN PROVIDE 1400mm MINIMUM FROST PROTECTION OR EQUIVALENT 3mm (1/8") OF ESTABLISHED ELEVATION IN ANY 6000mm (20'-0") THICKNESS OF THERMAL INSULATION TO ALL FOOTINGS EXPOSED TO SQUARE AREA, AND WITHIN 3mm (1/8") UNDER ANY 3000mm (10'-0") FREEZING AS PER PAR.7.1 OF SOIL REPORT #36304 PREPARED BY STRAIGHT EDGE: THURBER ENGINEERING LTD. - FOR FOOTINGS - 2% OF FOOTING WIDTH AND 25mm (1") MAXIMUM ON MISPLACEMENT OR ECCENTRICITY, AND 5% MAXIMUM REDUCTION IN A CONCRETE SKIM COAT, ABOUT 75mm IN THICKNESS, ON THE FOUNDING **FHICKNESS** SUBGRADE SHALL BE PLACED IF STRUCTURAL CONCRETE CANNOT BE - FOR PIERS - WITHIN 3mm (1/8") IN 3000mm (10'-0") AND 12mm (1/2") POURED WITHIN 24 HOURS OF EXCAVATIONS (SEE PAR.7.1 OF SOIL MAXIMUM ON PLUMBNESS AND LOCATION. REPORT #36304 PREPARED BY THURBER ENGINEERING LTD). PRODUCTS .1 CONCRETE - TO MEET SPECIFIED REQUIREMENTS OF CAN3-A23.1. PROTECT ALL WORK AND PERSONNEL WHILE DEMOLITION IS DO NOT EXCEED A SLOPE OF 7 IN 10 BETWEEN ADJACENT FOOTING READY-MIXED: WATER/CEMENT RATIO - IN ACCORDANCE WITH OCCURRING & COMPLY w/ H&S ACT. EXCAVATIONS OR ALONG STEPPED FOOTINGS. CAN3-A23.1 .2 WATER REDUCING ADMIXTURE TO MEET SPECIFIED REQUIREMENTS FOR FLOOR SLAB. SUBGRADE CONSTRUCTION METHODS AND DETAILS OF CAN3-A266.2 TYPE WN. SEE CHAPTER 7.4 OF GEOTECHNICAL INVESTIGATION REPORT #36304 .3 AIR ENTRAINING ADMIXTURE TO MEET SPECIFIED REQUIREMENT OF PREPARED BY THURBER ENGINEERING LTD ON JUNE 28,'23. CAN3-A266 1 4 REINFORCEMENT TO MEET REQUIREMENTS OF CSA G30.12 GRADE 8. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH. EXCEPT 400MPA (58 KSI). CANTILEVER RETAINING WALLS UNTIL FLOORS AT THE TOP & BOTTOM OF 5 REINFORCEMENT MESH TO MEET REQUIREMENTS OF CSA G30.5. THE WALLS HAVE BEEN PLACED & REACHED THEIR DESIGN STRENGTH. .6 FLOOR HARDENER - EMRI-CRETE TYPE SH BY STERNSON LIMITED APPLIED AT THE RATE OF 3 TO 4 KG PER SQUARE METRE. BACKFILL FOUNDATION WALLS SUCH THAT THE LEVEL OF BACKFILL 7 CURING AND SEALING COMPOUND FOR CONCRETE FLOORS -AGAINST ONE SIDE OF THE WALL IS NEVER GREATER THAN 450mm (18") RAWINGS SEALED BY P.ENG IN ONTARIO FOR APPROVAL PRIOR TO FLORSEAL BY STERNSON LTD. ABOVE THE LEVEL ON THE OTHER SIDE, UNLESS TEMPORARY BRACING OMMENCING ANY WORK. .8 SAWCUT FILLER FOR CONCRETE FLOORS - LOADFLEX BY STERNSON SUPPORTS ARE PROVIDED. LIMITED OR COLMA-DUR BY SIKA CHEMICAL OF CANADA. .9 GROUT UNER COLUMN BASE PLATES - MASTERFLOW 713 BY MASTER 10. DO NOT CONSTRUCT CONCRETE WALLS WITHOUT HORIZONTAL BUILDERS CO. LTD., OR M-BED BY STERNSON LIMITED. CONSTRUCTION JOINTS EXCEPT AS INDICATED ON THE DRAWINGS. CURE ALL CONCRETE SURFACES WITH SPECIFIED CURING COMPOUND. PROVIDE CHASES ON THE INSIDE FACES OF WALLS TO RECEIVE SLABS OR . FINISH CONCRETE SLAB WITH A STEEL TROWELLED FINISH WHERE BEAMS, UNLESS INDICATED OTHERWISE. LOCATED IN INTERIOR OF BUILDING AND EXPOSED TO VIEW, UNDER FINISH FLOOR INSTALLATIONS UNLESS SPECIFIED OTHERWISE, AND ON SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND RECESSES IN TOP OF SILLS. SLABS ON GRADE, AND MAINTAIN SLAB THICKNESS IN ALL CASES. . GROUT UNDER BASE PLATES AS REQUIRED BY OTHER SECTIONS. **ROOF METAL DECK** WORK TO BE IN ACCORDANCE WITH THE CANADIAN SHEET STEEL BUILDING INSTITUTE STANDARDS. UNLESS NOTED. WELDING TO BE TO CSA W59.1, UNLESS NOTED. METAL DECKING TO RESIST ALL LOADS INCLUDING UPLIFT FORCES AS INDICATED IN THE ONTARIO BUILDING CODE, WITHOUT EXCEEDING AS INDICATED IN THE OBC'12 AND NBC'15 CODES. WITHOUT THE ALLOWABLE MATERIAL STRESSES. LIMIT LIVE LOAD EXCEEDING THE ALLOWABLE MATERIAL STRESSES. LIMIT LIVE LOAD DEFLECTION TO 1/360TH OF THE SPAN. SUBMIT SHOP DRAWINGS CLEARLY INDICATING DECKING PLAN, PROFILE, DIMENSIONS, CORE THICKNESS, ANCHORAGES, SUPPORTS, PROJECTIONS, OPENINGS, AND REINFORCEMENT **METAL DECK FASTENING NOTES:** DETAILS AND ACCESORIES. REINFORCEMENT DETAILS AND ACCESORIES. PRODUCTS: **'D1'** ON ROOF FRAMING PLAN 1/S3.1 DENOTES 38mm(1½") DEEP x .91mm PRODUCTS. METAL: TO MEET REQUIREMENTS OF ASTM A446 GALVANIZED (20GA.) CNT METAL ROOF DECK CONT'S OVER MINIMUM (3) THREE SPANS. STEEL SHEET WITH WIPED ZINC COATING, GRADE A MINIMUN BRIDGING SHALL CONFORM TO CLAUSE 16 OF CAN-CSA S16.1-19. STEEL QUALITY. STEEL QUALITY COVER PLATES, CELL CLOSURES AND FLASHINGS: GALVANIZED SEE PLAN 3/S1.1 ON THIS DRAWING FOR FASTENING DETAILS: SHEET STEEL WITH A MINIMUM CORE THICKNESS OF 0.914 (0.036", THROUGHOUT ROOF AREA PROVIDE PROVIDE SIDE-LAPS WITH 20 GA) TYP U/N OTHERWISE ON PLAN BUTTON PUNCH @ 600mm o/c; 22 GA.) TYP. U/N OTHERWISE ON PLAN PRIMER: ZINC-RICH, READY MIX TO CGSB 1-GP-18A (REGION 'A') PROVIDE 19mm TRANSVERSE PUDDLE WELDS EVERY ROOF DECK: SINGLE FLUTED ELEMENTS WITH A MINIMUM CORE OTHER FLUTE (36/4 PATTERN): THICKNESS OF .91MM (0.036", 20 GA.), MAXIMUM DEPTH OF 40 INSTALL 2-19mmØ BOLTS TO CONNECT ROOF METAL DECK AT EACH (1.5") AND MAXIMUM RIB SPACING OF 200 (8"). JOIST SHOE, EVERYWHERE ELSE PROVIDE 19mm Ø LONGITUDINAL ERECT METAL DECK TO MANUFACTURER'S REQUIREMENTS. READ WELDS @ 900mm o/c MAX. "METAL DECK FASTENING NOTES" BELOW FOR LONGITUDINAL, SIDE LAPS THICKNESS OF 76mm ERECT METAL DECK TO MANUFACTURER'S REQUIREMENTS. READ TRANSVERSE WELDS NUMBER SPACING & DETAILS DIAPHRAGM & THEIR CONNECTIONS HAVE BEEN DESIGNED IMMEDIATELY AFTER DECKING IS IN SECURED IN PLACE, WHERE IN ACCORDANCE WITH NBC'15, OBC'12 ART .4.1.8.15 & CSA S16-14 GALVANIZED SURFACE IS BURNED BY WELDING, TOUCH UP WITH REQUIREMENTS. GALVANIZED SURFACE IS BURNED BY WELDING, TOUCH UP WITH GENERAL CONTRACTOR SHALL SUBMIT METAL DECK SHOP DRAWINGS SEALED BY P.ENG. PRIOR TO INSTALLATION. PRIMER

S1.1 :	GENE
S1.2 : S1.3 :	
S2.0 :	ANCH
S2.1 :	BASE FOUN
\$2.2 :	FOUN
S3.1 : S3.2 :	ROOF
S4.1 :	STRU
S5.1 :	MEZZ

SEE ARCHITECTURAL FOR ROOF DATUM ELEVATION @ HIGH POINT = TOP OF STEEL ELEVATION FOR BEAMS SUPPORTING JOISTS SET TOP OF ST. BEAM ELEVATIONS TO ACCOMODATE 100mm DEEP JOIST SHOES;

ROOF DESIGN LIVE LOAD = 2.24 KPa (46.8PSF) AS PER Ss=2.30KPa, Sr=.40KPa OWNER SHALL NOTIFY STRUCT'L ENG. OF ANY DISCREPANCY WITH THIS DATA

- = 1.00 kPa (20.9 PSF) = 0.25 kPa (5.2 PSF)
- = 1.25 KPa (26.1 PSF) AS FLOW CONTROL ROOF DRAINS ARE SPECIFIED ON ARCH'L ROOF PLAN, THE WEIGHT OF RAIN WATER SHALL BE ASSESSED AS FOLLOWS: PARAPET HEIGHT OF 300mm (AS PER ARCH'L SECTIONS) AND A MAXIMUM STATIC HEAD OF APPROXIMATELY 400mm (16"), THE AVERAGE RAIN LOAD IS EQUAL TO:
- Sr(AVD)=(16/2)/12 * 62.5PCF=41.7 PSF (1.99KPA) WHICH IS LESS THAN THE ROOF DESIGN SNOW LOAD OF S_(ULS)=46.8PSF (2.24KPa). U.N.O. ON ROOF FRAMING PLAN (PARTICULARLY UNDER SNOW PILE AREAS) ALL JOISTS SHALL BE EQUALLY SPACED BETWEEN GRIDS AND SHALL BE DESIGNED
- BY A P.ENG. IN ONTARIO SHOP DRAWINGS BEARING THE STAMP OF THE P. ENG. RESPONSIBLE FOR THE DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO JOISTS ARE TO BE DESIGNED FOR POINT LOADS OF MECHANICAL EQUIPMENT IN ADDITION TO THE UNIFORM LOADS SPECIFIED ABOVE FOR EXACT LOCATION
- AND WEIGHT OF MECHANICAL EQUIPMENT. SEE THE MECHANICAL DRAWINGS. THE WEIGHT OF 100mm(4")Ø & SMALLER SPRINKLER LINES HAS BEEN INCLUDED IN THE DEAD LOAD PARAMETERS. FOR SPRINKLER LINES > THAN 4"(100mm) \emptyset . DESIGN JOISTS FOR ADDITIONA UDL OR POINT LOADS AS REQUIRED. CONFIRM SPRINKLER LINE SIZES WITH SPRINKLER DWGS.
- DESIGN OF JOISTS AND BRIDGINGS SHALL CONFORM TO THE REQUIREMENTS OF JOISTS SHALL BE DESIGNED FOR A DEFLECTION OF L/360 UNDER LIVE LOAD; 10. ALL JOISTS AT COLUMNS, AND WHERE NOTED "TJ" ON ROOF FRAMING PLAN, ARE TO BE TIE JOISTS (I.E. EXTENDED BOTTOM CHORD AND CONNECT TO COLUMN OR SUPPORT). DESIGN TIE JOISTS FOR AN ADDITIONAL 5 KIPS COMPRESSION LOAD
- STRUCTURAL STEEL SHALL CONFORM TO CSA-CAN3-G40.20 & 21 WITH A MINIMUM ALL BOLTED STEEL CONNECTIONS SHALL BE MADE ACCORDING TO
- "TURN-OF-NUT TIGHTENING" REQUIREMENTS OF CSA-S16.19. ALL BOLTED MOMENT CONNECTIONS AND V.B.X.CONNECTIONS SHALL BE PRETENSIONED MECHANICAL EQUIPMENT LOADS & LOCATION ON PLAN AS SHOWN ON THESE
- DRAWINGS ARE TO BE CONFIRMED BY THE MECHANICAL CONTRACTOR. STEEL ROOF DECK (WHERE IT APPLIES) TO BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE. FOR SLOPE STEEL STRUCTURE TO ROOF DRAINS SEE ARCH'L DRAWINGS FOR DETAILS AND USE STRUCTURAL SET FOR GUIDANCE ONLY. SEE ROOF UPLIFT FORCES PLAN AND SEISMIC FORCE RESISTING SYSTEM (SFRS)
- **DEMOLITION & TEMPORARY SHORING NOTES** REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK (IF ANY) AND USE THESE DRAWINGS FOR GUIDANCE ONLY. PERFORM ALL DEMOLITION ONLY AS REQUIRED TO FULFILL INTENT OF ALL CONTRACT DOCUMENTS AND DRAWINGS.
- IF AT ANY TIME DURING THE COURSE OF DEMOLITION WORK, THE SAFETY OF THE EXISTING AREAS APPEARS TO BE ENDANGERED, CEASE OPERATIONS AND NOTIFY STRUCT'L ENG. IMMEDIATELY DO NOT PROCEED WITH DEMOLITION WORK UNTIL PERMISSION HAS BEEN GRANTED TO DO SO VERIFY SITE CONDITIONS FOR DEMOLITION AND INFORM STRUCT'L ENGINEER OF ANY DISCREPANCIES. MAKE ALL NECESSARY ARRANGEMENT WITH OWNER, LANDLORD OR HIS REPRESENTATIVE FOR A SITE VISIT(S PROVIDE TEMPORARY SHORING AS REQUIRED PRIOR TO PROCEED WITH ANY DEMOLITION WORK OR REMOVAL OF ANY STRUCT'L MEMBERS. IF REQUIRED BY SITE CONDITIONS, G.C. SHALL SUBMIT SHORING SHOP

COMPOSITE METAL DECK (MEZZANINE - SEE DWG.S5.1)

WORK TO BE IN ACCORDANCE WITH THE CANADIAN SHEET STEEL BUILDING INSTITUTE STANDARDS, UNLESS NOTED. WELDING TO BE TO CSA W59.1, UNLESS NOTED. METAL DECKING TO RESIST ALL LOADS INCLUDING UPLIFT FORCES

DEFLECTION TO 1/480TH OF THE SPAN. SUBMIT SHOP DRAWINGS SEALED BY P ENG CLEARLY INDICATING DECKING PLAN, PROFILE, DIMENSIONS, CORE THICKNESS, ANCHORAGES, SUPPORTS, PROJECTIONS, OPENINGS, AND

METAL: TO MEET REQUIREMENTS OF ASTM A446 GALVANIZED STEEL SHEET WITH WIPED ZINC COATING, GRADE A MINIMUN COVER PLATES, CELL CLOSURES AND FLASHINGS: GALVANIZED SHEET STEEL WITH A MINIMUM CORE THICKNESS OF 0.76 (0.030",

PRIMER: ZINC-RICH, READY MIX TO CGSB 1-GP-18A. COMPOSITE DECK: SINGLE FLUTED ELEMENTS WITH A MINIMUM CORE THICKNESS OF .76mm (0.030", 22 GA.), MAXIMUM DEPTH OF 38mm (1.5") AND MAXIMUM RIB SPACING OF 200 (8") WITH MAX. SLAB

NOTES ON PLAN 1/S5.1 FOR LONGITUDINAL, SIDE LAPS & TRANSVERSE WELDS, NUMBER, SPACING & DETAILS. IMMEDIATELY AFTER DECKING IS IN SECURED IN PLACE, WHERE

ARCHITECTURAL INSULATED WALL PANELS (VERTICAL INSTALLATION)

- INSULATED WALL SYSTEM SHALL BE 127mm (5") THICK FOR THE EXTENT SPECIFIED BY THE ARCHITECT. GENERAL CONTRACTOR SHALL REFER TO ARCH'L
- DRAWINGS FOR PANELS TYPE LAYOUT AND DETAILS; SUPPLIER TO DESIGN WALL PANELS TO SPAN VERTICALLY BETWEEN SUPPORTING/CONNECTION
- POINTS AND INCLUDE ALLOWANCE FOR ADDED WIND LOAD FROM GLAZING WHERE IT APPLIES: SUPPLIER TO COMPLY w/CL.4.1.8.3 CL.6a) NBC REQUIREMENTS AS PANELS ARE NOT CONSIDERED
- PART OF THE SEISMIC FORCE RESISTANT SYSTEM (SFRS) ON THIS DESIGN. THE CONNECTIONS SHOWN ON STRUCTURAL DRAWINGS, BOTH IN TERMS OF LOCATION AND DETAILS,
- ARE FOR CONCEPT DESIGN ONLY; FINAL CONFIGURATION OF SUPPORT CONNECTIONS SHALL BE COORDINATED BY GENERAL CONTRACTOR WITH PANEL SUPPLIER PRIOR TO INSTALLATION;
- PANEL SUPPLIER SHALL PREPARE & SUBMIT SHOP DWGS SEALED BY P.ENG. FOR APPROVAL TO STRUCT'L ENG. PRIOR TO FABRICATION.
- WALL CLADDING COMPONENTS SHALL BE DESIGNED TO RESIST WIND AND FORCES REQUIRED TO TRANSFER THE WEIGHT OF THE PANEL TO THE SUPPORT. THE CRITERIA USED TO DESIGN PANEL SYSTEM AND
- THEIR CONNECTIONS SHALL INCLUDE BUT NOT LIMITED STRENGTH
- DUCTILITY VOLUME CHANGE ACCOMMODATIONS
- DURABII ITY FIRE RESISTANCE CONSTRUCTABILITY
- HARDWARE DESIGN FOR CONNECTIONS SHOULD TAKE INTO ACCOUNT THE TOLERANCES FOR BOTH THE PANEL COMPONENTS AND THE STRUCTURE. THESE CONSIDERATIONS MAY REQUIRE ADDITIONAL HARDWARE TO COMPENSATE FOR DIMENSIONAL
- VARIATIONS OR TO ALLOW FOR VARIATIONS IN FI EVATION. 9. ERECTION AND INSTALLATION OF PANELS SHALL BE UNDERTAKEN BY PERSONNEL WITH PROVED WORKMANSHIP EXPERTISE FOR THE SUBJECT

MASONRY

INSULATED SYSTEMS.

- ALL MASONRY SHALL BE PLACED IN ACCORDANCE WITH NORMAL GOOD PRACTICE AND CAN/CSA.S-S304.1-14, TRUE TO LINE AND PLUMB. 1.1 ALLOWABLE TOLERANCES: -VARIATION FROM TRUE PLANE -1:500
- -VARIATION FROM PLUMB -1:500 -VARIATION FROM PLAN POSITION -1:500, 20mm Max -VARIATION FROM GRADE -1:500, 12mm Max
- 1.2 MATERIALS: CONCRETE MASONRY UNITS: CONFORMING TO CSA A154 SERIES M NORMAL WEIGHT CONCRETE AUTOCLAVE BLOCKS. HOLLOW UNITS TYPE H/15/A/M SOLID UNITS TYPE S/15/A/M
- SPECIAL UNITS (BULLNOSE, CORNERS, JAMBS, LINTELS, ETC.) PROVIDE BULLNOSE FLAT FACE UNITS AT ALL MASONRY OPENINGS CORE FILL GROUT: 20MPA TO CSA A179 MORTAR: TYPE S TO CSA A179

MASONRY ACCESSORIES CONNECTORS TO CSA A370 AND CSA S304

- COLUMN TIES (CONNECT MASONRY WALLS TO ADJOINING STEEL COLUMNS) FERO CAT TIE, SPOT WELD TO COLUMNS AT • BAR REINFORCEMENT TO CSA-A371 AND CSA G30.18 GRADE 400R, DEFORMED
- HORIZONTAL WIRE REINFORCEMENT TO CSA-A371 AND CSA G30.3, LADDER TYPE, INSTALL 200mm ABOVE THE FOUNDATION WALL AND AT 400mm THEREAFTER: INTERIOR NON BEARING WALLS - HOT DIP GALVANIZED, STANDARD DUTY, 3.66mm WIRE DIAMETER.
- INTERIOR/EXTERIOR BEARING WALLS HOT DIP GALVANIZED, STANDARD DUTY, 4.76mm WIRE DIAMETER. DOVETAIL ANCHORS: D/T FLEX-O-LOK12 GAUGE HOT DIP GALVANIZED, WITH 4.76 mm TIE. HOT DIP GALVANIZING IN ACCORDANCE TO ASTM A153 CLASS B2.
- MOVEMENT JOINTS (EXPANSION AND CONTROL): SUBMIT TO THE ENGINEER FOR APPROVAL THE LOCATIONS AND DETAILS FOR ALL MOVEMENT JOINTS TO BE INCORPORATED IN THE WORKS. VERTICAL JOINTS TO BE SPACED NOT MORE THEN 30FT AND ALSO BE ADDED AT CORNERS, OFFSETS, OPENINGS, WALL INTERSECTIONS, CHANGES IN WALL HEIGHTS. HORIZONTAL EXPANSION JOINTS TO BE PLACED SHELF ANGLES
- SUPPORTING BRICK MASONRY. . ALL AVAILABLE BEARING AREAS OF MASONRY UNITS SHALL BE FULLY COVERED WITH MORTAR, SPREADED IN AN EVEN LAYER AND VERTICAL
- REBARS SHALL BE FILLED SOLIDLY WITH MORTAR. ALL INTERSECTING MASONRY WALLS TO HAVE MASONRY BOND OR HEAVY
- DUTY (BLOK-LOK) OR EQUIVALENT AT 200mm VERTICALLY MAXIMUM. . FOR BONDING BRICK AND BLOCK USE HEAVY DUTY TRUSS TYPE
- REINFORCING OR EQUIVALENT @ 400 VERTICALLY MAXIMUM COMPLETELY EMBEDDED IN MORTAR.
- MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND PRESSURE DURING CONSTRUCTION.
- . ALL SOLID MASONRY SHALL BE LAID WITH FULL HEAD AND BED JOINTS. PROVIDE ALL ENCLOSURES, HEATING AND UNDERTAKE METHODS OF
- LAYING MASONRY IN COLD WEATHER. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES FOR MECHANICAL
- AND ELECTRICAL TRADES AS SPECIFIED ON PLANS, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS AND RECESSES.
- CONCRETE AND STEEL BEAMS BEARING ON MASONRY WALLS SHALL HAVE A MINIMUM BEARING OF 400mm UNLESS OTHERWISE NOTED ON PLAN. 0. PROVIDE 3 COURSES OF SOLID BRICK MASONRY UNDER ALL BEARING PLATES BEARING ON MASONRY FOR A DISTANCE OF NOT LESS THAN 200mm PAST BEARING PLATE ON EACH SIDE.
- . MORTAR SHALL BE TYPE "S" WITH A MINIMUM COMPRESSIVE STRENGTH OF A 9.5 MPa BASED ON A NET CROSS-SECTIONAL AREA.
- 2. SOLID CONCRETE BLOCK MASONRY WITH MORTAR TYPE "S" SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 7.5 MPa - F'M.
- 3. HOLLOW CONCRETE BLOCK MASONRY WITH MORTAR TYPE "S" SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 9.8 MPa - F'M. 4. COMPRESSIVE STRENGTH OF CONCRETE BLOCKS SHALL BE 15 MPa
- MINIMUM, BASED ON NET CROSS-SECTIONAL AREA. MASONRY REINFORCING NOTES #MR a) MIN.REINFORCING STEEL SPECIFIED YIELD STRESS SHALL BE 400MPa;
- -b) HORIZONTAL REINFORCEMENT SHALL BE PROVIDED: 1) AT TOP OF MASONRY FOUNDATION WALLS: 2) AT TOP & BOTTOM OF EVERY WALL OPENING OVER 4'-0"(1200mm) HIGH: 3) IN THE COURSE IMMEDIATELY BELOW THE SOFFIT AND FLOOR LEVEL: 4) AT TOP OF EVERY PARAPET WALLS (IF ANY).
- -c) CONCRETE BLOCK WALLS AS SHOWN ON PLANS SHALL BE MADE OF MINIMUM 190mm CONC. BLOCKS FULLY GROUTED (INCLUDING KEYS) w/TYPE 'S' MORTAR AND MIN.COMPRESSIVE STRENGTH OF MASONRY AT 28 DAYS OF 20MPa. REFER TO ARCHITECTURAL DRAWINGS FOR WALL THICKNESS,
- ENT ON PLAN AND TOP OF WALL ELEVATION AND USE TRUCTURAL DRWAINGS FOR GUIDANCE ONLY
- CONCRETE BLOCK WALLS SHALL BE REINFORCED WITH 15M VERT, BARS @ EVERY OTHER CORE (SEE PLAN DETAIL TD-A/S5.1 AT CORNER WALLS) + HORIZONTAL GALVANIZED CONTINUOUS LADDER TYPE @ EVERY OTHER COURSE.

ITEM

IMPORTANC

HIGH MODE

REFERENCE

TABLE 4.1.8.5

TABLE 4.1.8.11

	MEZZANINE AREA		(
	SFRS MODIFICATION FAC	TORS	
TABLE 4.1.8.9	CONVENTIONAL STEEL BRACED FRAMES	Rd=1.5; Ro=1.3 (CAN-CSA S16)	
CL. 4.1.8.11 (3b)	FUNDAMENTAL PERIOD	Ta=. 08 sec	
	SFRS MODIFICATION FAC	TORS	
TABLE 4.1.8.9	CONVENTIONAL MASONRY SHEAR WALLS	Rd=1.5; Ro=1.5 (CAN-CSA S304)	
CL. 4.1.8.11 (3c)	FUNDAMENTAL PERIOD	Ta=. 12 sec	
CL 4 1 8 11 (2c)	BASE SHEAR: Ve (II)= 40KN		
02. 4.1.0.11 (20)	OVERTURNING MOMENT: MEII= 125KNm		

OF STRUCTURAL DRAWINGS RAL NOTES AND LATERAL LOADS DULE/DIAGRAMS: AL DETAILS; DULES & DETAILS;

IOR BOLTS LAYOUT & PLATE DETAILS; NDATION PLAN; NDATION SECTIONS;

FRAMING PLAN; SECTIONS;

JCTURAL STEEL ELEVATIONS; ZANINE FRAMING PLAN & SECTIONS.

WIND & SEISMIC LOADING NOTES & DIAGRAMS (OBC'12 & NBC'15 - PART4)

	DESIGN PARAMETERS
FACTOR	le = 1.0
FACTOR	Mv = 1.0
ION FACTOR	J = 1.0
UND ACCEL.	PGA(ref) = .055
N FACTOR	Fa=F(.2) =1.24
N FACTOR	F(.5) = 1.47
N FACTOR	Fv=F(1.0) = 1.55
N FACTOR	F(2.0) = 1.57
N FACTOR	F(5.0) = 1.58
N FACTOR	F(10.0) = 1.49
d Horiz. Ral Ration	Sa(.2)=0.15; Sa(.5)=0.097; Sa(1.0)=0.060 ;Sa(2.0)=0.020;
ACCELERATION	PGA=.051
D HORIZ. RAL RATION	Sa(.2)=0.115; Sa(.5)=0.076; Sa(1.0)=0.046 ;Sa(2.0)=0.023; Sa(5.0)=0.0058 ;Sa(10.0)=0.0024;
ACCELERATION /ELOCITY	PGA=.069; PGV=.059;
BILITY OF DANCE IN RS	Sa(.2)=0.257; Sa(.5)=0.258; Sa(1.0)=0.156;Sa(2.0)=0.075; Sa(5.0)=0.0198;Sa(10.0)=0.00625;
ACCELERATION VELOCITY	PGA= 147; PGV= 163;
ATEGORY	SC2
FICATION	CLASS 'D'
= .14 < .35	EQUIVALENT STATIC
ANALYSIS	FORCE PROCEDURE

ROOF GROSS UPLIFT WIND FORCE PLAN

WIND LOAD PARAMETERS (1 1 7 OPC'12 8 NPC'15)

(4.1.7 0	$BC 12 \approx NBC 15)$
DESIGN PARAMETERS	DESCRIPTION/CODE REFERENCE
Ce=.92	EXPOSURE FACTOR CL.4.1.7.3 (5a) FOR OPEN TERRAIN
Iw(ULS) = 1.0 Iw(SLS) = .75	IMPORTANCE FACTOR TABLE 4.1.7.3
Cgi = 2.0	INTERNAL GUST EFFECT FACTOR CL.4.1.7.3 (10)
Ct = 1.0	TOPOGRAPHIC FACTOR CL.4.1.7.4 (1)
Cp Cg	EXTERNAL PRESSURE COEFFICIENT (FIG.4.1.7.6 A to C)
45< Cpi< .30	INTERNAL PRESSURE COEFFICIENT TABLE 4.1.7.7
Q(1/50)=0.36 kPa (ORANGEVILLE,ONTARIO)	REF. VELOCITY PRESSURE
ROOF SLOPE LOW RISE BUILDING	LESS THAN 5 DEGREES H < 20m
CATEGORY 2 BUILDING	NOT DYNAMICALLY SENSITIVE (ART. 4.1.7.2)
METHOD OF ANALYSIS	STATIC PROCEDURE (ART. 4.1.7.3)

TOTAL WIND LOADS V MIN = 75 KN V MAX = 120 KN (Max.@ E-W Elevations) (Min.@ N-S Elevations) DESIGN NOTES: a) FORCES INDICATED ARE THE TOTAL GROSS DESIGN VALUES (UNFACTORED), DEAD LOAD SHALL BE DEDUCTED AS 1.4WIND-.90DL TO OBTAIN NET VALUES: b) VALUES SHOWN ON THIS TABLE ARE FOR WIND LOADS ACTING SIMULTANEOUSLY

EXTER ON IND	NAL WIND IVIDUAL W	PRESSURE P 'ALLS - CLADI	e (KPa) DING DESIGN	COMB ON INI	INED WIN DIVIDUAL	D PRESS WALLS - (URE P(KP	a) 3 DESIGN
ZONE	CpCg	ULS (Pe)	SLS (Pe)	ZONE	Cpi=-	.45	Cpi=.	30
E-	-2.09	70	52	ZONE	ULS (P)	SLS (P)	ULS (P)	SLS (P)
W-	-1.80	60	45	E-	40	30	90	67
E+	1.76	.59	.44	W-	30	22	80	60
W+	1.76	.59	.44	E+	.89	.66	.39	.29
	INTERNAL Pi=lw * q(1/	WIND PRESS 50) * Ce * Ct *	URE (KPa) CpiCgi;	W+	.89	.66	.39	.29
	ULS : Pi =	30 TO .20						
	SLS : Pi =	22 TO .15						

(4.1.7 -OBC'12 & NBC'15) GROSS UPLIFT LOADS (KPa)

ON ALL SURFACES.

WIND			
PRESSURE(kPa) q (1/50) =0.36kPa	Pr (ROOF)	Ps (SIDES)	Pc (CORNERS)
JOIST DESIGN	73	90	90
DECK DESIGN	83	-1.07	-1.70
NOTES			•

DESIGN DECK + JOIST AND THEIR CONNECTIONS FOR THE GROSS UPLIFT LOADS SHOWN. FORCES ARE IN kPa AND ARE UNFACTORED.

. FORCES INDICATED ARE THE GROSS DESIGN UPLIFT FORCES. DEAD LOAD SHALL BE DEDUCTED

AS 1.4WIND-.90DL

THESE ENGIN REPRO CONTE AND E AND D COMM ONLY I PRINTS	E DRAWINGS ARE THE PROPERTY EERING LTD AND CANNOT BE US DUCED WITHOUT WRITTEN PER RACTOR SHALL CHECK AND VERI ELEVATIONS AND BE RESPONSIB ISCREPANCIES TO BE REPORTED ENCING ANY WORK. FINAL APPROVED DRAWINGS TO S TO BE RETURNED UPON COMP S ARE NOT TO BE SCALED.	OF EXSEN GED OR MISSION. FY ALL DIMEN LE FOR SAME. D BEFORE BE USED AND D LETION OF WO	SIONS ALL ORK.
Orier	ntation N		
			NDER
NO.	DESCRIPTION		DATE
1	FOR COORDINATION		DEC.10, 2022
2 3	FOR FINAL COORDINAT		DEC.16, 2022 AUG.01, 2023
4	FOR BUILDING PERMIT	& SPA	AUG.08, 2023
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Date	AUG/08/2023	
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	REINFORCED	CONCRETE FOOTING SCHEDUL	E (25MPa)	
MARK	SIZE	REINFORCING	NOTES	CONSTRUCTION NOTES
F1x	1200x1800x 400mmDeep COMBINED FOOTING	15M @ 150 o∖c Top & Bottom Each Way to be hooked at one end only	a),b),c),d)	G1 SEE FOUNDATION PLAN 1/S2.1
F1y	1200 SQ. x 400mmDeep COMBINED FOOTING	15M @ 200 o∖c Top & Bottom Each Way to be hooked at one end only	a),b),c),d)	G1 SEE FOUNDATION PLAN 1/S2.1
F2	1000mm SQ. x 400 Deep	5-15M Bottom Each Way	a),b),c),d)	
F3	1200mm SQ. x 400 Deep	6- 15M Bottom Each Way	a),b),c),d)	
F4	1900mm SQ. x 400 Deep	8-15M Top & Bottom Each Way	a),b),c),d)	
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NOTES:

a) G.C. SHALL USE THE FOUNDATION PLAN 1/S2.1 FOR GUIDANCE ONLY AND REFER TO ARCH'L DRAWINGS FOR FOOTING LOCATION; b) PROVIDE MINIMUM 75mm (3") REBAR COVER FROM EARTH EXPOSURE (TYP.); c) UNDERSIDE OF FOOTING SHALL REST ON NATIVE UNDISTURBED SOIL (TYP.); d) UNDERSIDE OF FOOTING EXPOSED TO FROST ACTION SHALL BE MINIMUM 1400mm DEEP FROM

	REINFORCED CONCRETE FOUNDATION WALL SCHEDULE (25MPa)	
MARK	WALL DESCRIPTION AND REINFORCING	NOTES
WF1	200mm tk. 25 MPa CONCRETE FOUNDATION WALL REINF.'D w/ 10M @ 250 HIC + 10M @ 300 VIC (INSTALLED AT C\L OF WALL) ONTO 600 WIDE x 250mm DP. 25MPa CONCRETE SPREAD FOOTING REINF'D w/3-15M CONTINUOUS BARS.	T.O.WALL ELEVATION SHALL BE DROPPED AT MANDOOR AND O.H.DOOR LOCATIONS (SEE ARCH'L)
WF2	300mm tk. 25 MPa CONCRETE FOUNDATION WALL REINF.'D w/ 15M @300 HIC + 15M @ 400 VIC (INSTALLED AT C\L OF WALL) ONTO 600 WIDE x 250mm DP. 25MPa CONCRETE SPREAD FOOTING REINF'D w/3-15M CONTINUOUS BARS.	TO BE CONSTRUCTED UNDER MASONRY SHEAR WALL ADJACENT TO WASH BAY PIT (SEE PLAN 1/S2.1)
WF3	150mm tk. 35 MPa (CLASS C-1 EXPOSURE) CONCRETE WALL REINF.'D w/ 10M @200 HIC & VIC (INSTALLED AT C\L OF WALL)	TYPIICAL AT WASH BAY PIT (SEE ARCH'L FOR EXTENT ON PLAN)

	RI	EINFORCED CONC	CRETE PIER SCHEDULE (25MPa)	
MARK	SIZE	DETAIL	REINFORCING	NOTES
P1	585mm (23") SQUARE REINF.CONCRETE PIER		12 -20M VERTICALS +10M CLOSED TIES @ 200 o/c +2-10M TOP TIES	
P1x	585mm (23") x 660 (26") REINF.CONCRETE PIER		14 -20M VERTICALS +10M CLOSED TIES @ 200 o/c +2-10M TOP TIES	SEE CONSTRUCTION NOTE #F1 ON DRAWING S2.2
P2	790 (31")x610 (24") REINF.CONCRETE PIER		16 -20M VERTICALS +10M CLOSED TIES @ 300 o/c +2-10M TOP TIES	SEE PLAN DETAIL ON THIS DRAWING FOR W12 OFFSET CORNER COLUMN AT GRIDLINE #J-6
P3	585 (23")x430 (17") REINF.CONCRETE PIER		8 -20M VERTICALS +10M CLOSED TIES @ 300 o/c +2-10M TOP TIES	SEE PLAN DETAIL ON THIS DRAWING FOR WIND COLUMN ADJACENT TO EXISTING BUILDING

EXISTING ADJACENT BUILDING - FOUNDATION/STEEL COLUMN SCHEDULE EXISTING FOUNDATION WALL LEGEND (TO BE SITE VERIFIED) EX-W1: 190(8") UNREINF. BLOCK ONTO 600 (24") WIDE SPREAD FOOTING EX-W2: 240(10") UNREINF.BLOCK ONTO 600 (24") WIDE SPREAD FOOTING

EXISTING COLUMN LEGEND (TO BE SITE VERIFIED)

EX-C1 : W6x15 (EX-BPL1 8x1/2"x8) EX-C2 : W8x24 (EX-BPL2 11x7/8"x11) EX-C3 : W8x31 (EX-BPL3 14x1"x14)

EXISTING CONCRETE PIER LEGEND (TO BE SITE VERIFIED) EX-P1 : 16" SQUARE EX-P2 : 22" SQUARE EX-P3 : 28" SQUARE

EXISTING CONCRETE FOOTING LEGEND (TO BE SITE VERIFIED) EX-F1 : 5'-0" SQ. x 12" DEEP EX-F2 : 7'-0" SQ. x 15" DEEP EX-F3 : 8'-6" SQ. x 18" DEEP

DESIGN NOTE #A

(REQUIREMENT FOR SITE VERIFICATIONS):

ANY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN FROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC. (REF.DRAWING 8721-S1 -STAMPED ON DEC.16,'87) AND SHALL BE TAKEN FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL SITE VERIFY ALL THESE DATA AND REPORT TO STRUCTURAL ENGINEER ANY DISCREPANCY PRIOR TO COMMENCING ANY WORK.

' GRADE	(TYP.).	
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DESIGN NOTE #A (REQUIREMENT FOR SITE VERIFICATIONS): ANY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN FROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC. (REF.DRAWING 8721-S1 -STAMPED ON DEC.16,'87) AND SHALL BE TAKEN FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL SITE VERIFY ALL THESE DATA AND REPORT TO STRUCTURAL ENGINEER ANY DISCREPANCY PRIOR TO COMMENCING ANY WORK.

iv) MAKE MASONRY WALL GOOD AFTER.

MINIMUM 150mm EMBEDMENT INTO EXISTING CONCRETE FOOTING; PROPOSED VERTICAL BARS. (DEPTH TO BE SITE VERIFIED BY GENERAL CONTRACTOR. G.C. SHALL NEVER UNDERMINE ANY EXISTING FOOTING AND COMPLY WITH 7 TO 10 SLOPE REQUIREMENT FOR ADJACENT FOOTINGS AND

FOUNDATIONS SHALL BE PERFORMED UNDER FULL TIME SUPERIVISION OF A GEOTECHNICAL CONSULTANT HIRED BY GENERAL CONTRACTOR.

THESE ENGIN REPRO CONTE AND E	E DRAWINGS ARE THE PROPERTY OF EXSEN EERING LTD AND CANNOT BE USED OR DUCED WITHOUT WRITTEN PERMISSION. RACTOR SHALL CHECK AND VERIFY ALL DIMEN ELEVATIONS AND BE RESPONSIBLE FOR SAME.	ISIONS
ONLY I PRINTS	ENCING ANY WORK. FINAL APPROVED DRAWINGS TO BE USED AND S TO BE RETURNED UPON COMPLETION OF W S ARE NOT TO BE SCALED.) ALL ORK.
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Scale Issue Proje Date	As Noted Shee d by JC ct No 22036 AUG/08/2023	et Number S1.3
	ARCH E1' SIZE	

S2.0

ANCHOR BOLTS & BASE PLATES LAYOUT

SCALE: 1:50

U/S BPL @ MIN.-350mm FROM FFE (TYPICAL U/N OTHERWISE ON PLAN)

CONSTRUCTION NOTE #1

THESE DRAWINGS SHOW THE COMPLETE STRUCTURE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CHOOSE CONSTRUCTION METHODS AND CARRY OUT THE WORK BASED ON SITE CONDITIONS.

NO.

Scale

FOUNDATION NOTES (PART 4 OBC'12 & NBC'15):

- 1. THIS SYMBOL BH# 🕂 ON PLAN DENOTES APPROXIMATE LOCATION OF BOREHOLES AS PER SOIL REPORT# 36304 PREPARED BY THURBER ENGINEERING LTD. ON JUNE 28,'23;
- 2. FOUND ALL FOOTINGS ON NATIVE UNDISTURBED SOIL WITH BEARING CAPACITY OF 100KPa @ 'SLS' AND 150KPa AT 'ULS' AT 1.4m DEPTH (APPROX.EL. 416.0m) . IT SHALL BE NOTED THAT LOWER FOUNDING ELEVATIONS INTO NATIVE COMPACT SAND OR VERY STIFF SILTY CLAY TO CLAYEY SILT (AT 2.2m DEPTH EL.415.2) SET THE POTENTIAL NEED FOR DEWATERING, THEREFORE HIGHER FOUNDING ELEVATIONS (AT APPROX. 1.4m DEPTH EL.416.0m) ARE PREFERRED FROM A CONSTRUCTION POINT OF VIEW AS SPECIFIED ON PAR.7.1 OF SOIL REPORT#36304 PREPARED BY THURBER ENGINEERING LTD.;
- 3. PROVIDE 75mm SKIM SLAB OVER THE FOUNDING SURFACE IF CONCRETE FOR FOUNDATIONS CANNOT BE POURED WITHIN 24 HOURS FROM EXCAVATIONS; 4. ALL FOOTINGS EXPOSED TO FREEZING GROUND CONDITIONS MUST BE PROVIDED WITH A MINIMUM OF
- 1400mm OF SOIL COVER OR EQUIVALENT THICKNESS OF THERMAL INSULATION IN ACCORDANCE WITH PAR.7.1 OF AFOREMENTIONED SOIL REPORT;
- 5. G.C. SHALL RETAIN A GEOTECHNICAL ENGINEER TO CONFIRM THE AFOREMENTIONED SOIL BEARING PRESSURE VALUES PRIOR TO POURING CONCRETE FOR FOUNDATIONS;
- 6. G.C. SHALL REFER TO PAR.7.5 "EXCAVATION AND GROUNDWATER CONTROL" OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR EXCAVATION AND DEWATERING PROVISIONS;
- 7. G.C. SHALL COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER FOR BACKFILLING REQUIREMENTS, SUBGRADE PROVISIONS, DRAINAGE AND ANY SOIL RELATED ISSUE;
- 8. G.C. SHALL ALSO COMPLY WITH "FOUNDATION NOTES" AS SHOWN ON DRAWING S1.1.

 [9] TYPICAL AT NEW: EXISTING FOOTING INTERFACE: DRULL & GROUT TWIN PORCOVATE. DOWNELS 300mm LONG MINIMUM 150mm EMBEDWENT INTO EXISTING CONCRETE FOOTING AT 200 pic; UNDERSIDE OF NEW FOOTING ELEVATION SHALL MACTU UNDERSIDE OF EXISTING FOOTING ELEVATION SHALL MACTU UNDERSIDE OF EXISTING FOOTING ELEVATION SHALL MACTU UNDERSIDE CENERAL CONTRACTOR. CONSTRUCTION NORE IN FROMING YOURS AND COMPACT DEVENT UNDERSIDE REQUIREMENT FOR ADJACENT FOOTINGS AND EXCAVATION AS PERFORMEDING AND CONSTRUCTION NORE IN FROMING YOURS AND ACCOUNT ACTOR. CONSTRUCTION NORE IN FROM THE SUPERVISION OF A GEOTECHNICAL CONSULTANT HIRED BY CENERAL CONTRACTOR. CONSTRUCTION NORE IN FROM THE SUPERVISION OF A GEOTECHNICAL CONSULTANT HIRED BY CENERAL CONTRACTOR. CONSTRUCTION NOTE 4C3 (CRIDINATE ON STRUCT HA CEOTECHNICAL ENSING CANADA AND CONTRATE ON STRUCT HA CEOTECHNICAL ENSING CENERAL CONTRACTOR SHALL CONTRACTOR STRUCT HA CEOTECHNICAL ENSING CENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DERAWING ST.1. CONSTRUCTION NOTE 4C3 (CRIDINES & FLAN DIMENSIONS. REFER TO ACHIL TOR FOUNDATION AND LLO CONTROL ON PLAN (<i>i.e.</i> OFFSET FROM GROUNES). GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DERAWING ST.1. CONSTRUCTION NOTE 4C3 (CRIDINES & FLAN DIMENSIONS. REFER TO ACHIL TOR FOUNDATION WILL LOCATION ON PLAN (<i>i.e.</i> OFFSET FROM GROUNES). GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION WILL CONSTRUCTION ONE 4C4 (SLAB ON GRADE CONSTRUCTION). AT OPPICE AREA DIN (YEE ARCH.1 CONSTRUCT		
 DRILL & GROUT 15M HORIZONTAL DOWELS 300mm LONG MINIMUM 100mm EMBEDMENT INTO EXISTING CONCRETE FOUND & AT 200 etc. UNDERSIDE OF NEW FOOTNOE ELEVATION SHALL MATCH UNDERSIDE OF EXISTING FOOTING ELEVATION SHALL PATCH UNDERSIDE OF EXISTING FOOTING ELEVATION SHALL PATCH UNDERSIDE OF CONSTRUCTION NOTE MC2 (UNDERSIDE OF FOOTING AND CONSTRUCTION NOTE MC2 (UNDERSIDE OF FOOTING ELEVATIONS) SHALL BE PERFORMED UNDER FULL TIME SUPERVISION OF A GEOTEXICAL DURING KIN PROXIMITY OF EXISTING FOOTING SHALL EDERCOMMEND AND EXCAVATION AS PER TYPICAL DETAIL TD-281.2. ANY EXCAVATION WORK IN PROXIMITY OF EXISTING FOOTING AND CONSTRUCTION NOTE MC2 (UNDERSIDE OF FOOTING ELEVATIONS) SHALL BE PERFORMED UNDER FULL TIME SUPERVISION OF A GEOTEXICAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRAING DAYADID COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRAING DAYADID COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FROPOSED GRAING DAYADID COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR GRUINESCIOL: LOCATION AND PLAN DIMENSIONS; GEOTENESCIOL: LOCATION AND AND AND ADOOR CONCRETE SLAB O	G1	(TYPICAL AT NEW - EXISTING FOOTING INTERFACE):
180mm EMBEDNEMT IN 10 EXISTING CONCRETE FOOTING AT 200 or: 0 CONSTRUCTION STALL AND CONTROL UNDERSIDE 0 CONSTRUCTION CONTROL CLEARNING STALL AND CONTROL ON DESIDE 0 CONSTRUCTION CONTROL CLEARNING CONTROL ON CONTROL ON CONTROL 0 CONSTRUCTION CONTROL CLEARNING CONTROL ON CONTROL ON CONTROL 0 CONSTRUCTION NORE IN PROXIMITY OF EXISTING FOUNDATIONS SHALL BE PERFORMED UNDERFULL THE SUPERVISION OF A 0 CONSTRUCTION NORE IN PROXIMITY OF EXISTING FOUNDATIONS SHALLE PERFORMED UNDERFULL THE SUPERVISION OF A 0 CONSTRUCTION NOTE 402 (UNDERSIDE OF FOOTING ELEVATIONS): 10 MDERRISE OF FOOTING ELEVATION SHALL BE AT MIMMIUM 1400mm DEPTH FROM GRADE LEVAL 0 CONSTRUCTION NOTE 453 (GROUNATE ON SITE WITH A GEOTECHNICAL ENGINEER 10 MDERRISE CONTRACTOR SHALL BEEAT MARCHL DRAWINGS FOR PROPOSED 0 RADING STALL CONTRACTOR SHALL BE AT MIMMIUM 1400mm DEPTH FROM GRADE LEVAL 0 CONSTRUCTION NOTE 453 (GROUNES & PLAN DMENSIONS): 0 EXEMPTION CLEARNING ELEVATION 10 CONSTRUCTION NOTE 453 (GROUNES & PLAN DMENSIONS): 0 EXEMPTION CLEARNING CONTRACTOR SHALL CONTRACTOR NOTES' SHOWN ON DRAWING STIL 0 CONSTRUCTION NOTE 453 (GROUNES & PLAN DMENSIONS): 0 EXEMPTION CLEARNING FOR CONSTRUCTION; 10 CONSTRUCTION NOTE 454 (SLAB ON GRADE CONSTRUCTION): 10 CONSTRUCTION NOTE 456 (SLAB ON GRADE CONSTRUCTION): 10 CONSTRUCTION NOTE 456 (SLAB ON GRADE CONSTRUCTION): 10 CONSTRUCTION NOTE 456 (SLAB ON GRADE THIS DRAWING FOR GUIDANCE ON IY. 10 CONSTRUCTION NOTE 456 (SLAB ON GRADE THIS DRAWING SONG CONCRETE SLAB ON 10 CONSTRUCTION NOTE 456 (SLAB ON GRADE THIS DRAWING SONG CONCRET		- DRILL & GROUT 15M HORIZONTAL DOWELS 300mm LONG MINIMUM
 OF EXISTING FRONTING ELEVATION (DEPTH TO BE SITE VERIFIED BY GENERAL CONTRACTOR G. C. SHALL NEVER UNDERMINE ANY EXISTING FOOTING AND COMPLY WITH 7T OI SLOPE REQUIREMENT FOR ADJACENT FOOTINGS AND EXCAVATION AS PER TYPICAL DETAIL TO-231.2. ANY EXCAVATION WORK IN PROXIMITY OF EXISTING FOOTING AND COMPLY WITH 7T OI SLOPE REQUIREMENT FOR ADJACENT FOOTINGS AND EXCAVATION AS PER TYPICAL DETAIL TO-231.2. ANY EXCAVATION WORK IN PROXIMITY OF EXISTING CONTRACTOR. CONSTRUCTION NOTE #62 (UNDERSIDE OF FOOTING ELEVATIONS): UNDERSIDE OF FOOTING ELEVATION SHALL BEAT XIMINUM 400mm DEPTH FROM BRADE LEVEL. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRADING DATA AND EOOROMATE ON SITE WITH A GEOTECHNICAL ENSINEER FOOTING ELEVATION CONSTRUCTION NOTE #63 (CREDUNES & PLANDIMESTICONS): GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DEARWING ST.11. CONSTRUCTION MOTE 403 (CREDUNES & PLANDIMESTICONS): GENERAL CONTRACTOR SHALL EFFER TO ARCHL DRAWINGS FOR GRIDUNESCOL'S LOCATION AND PLAN DIMENSIONS: GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. CONSTRUCTION NOTE 463 (LAB ON GRADE CONSTRUCTION): A TO FICE AREA ONLY (SEE ABCHL FOR EXTENT) PROVIDE 12mm (51) THUCK SAMPA CONCRETE SLAB ON GRADE REINFORCED WITH WWW bd 68 CLOSE TO TOP OF SLAB. AT WASH BAY PIT PROVIDE SAMM (10') THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIMW bd 81 HIM AT 300 vice DATOM EACH WAY (SEE TYPICAL INFLOOR MADIAL SLAB SCIETON SGYS2.2.1 GENERAL CONTRACTOR SHALL BEFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA DEPTESSIONS. RECESSES AND USE STIM TO 70' THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIMW bd 81 HIM AT 300 vice TOTA AND 50 HUMY WIM BD 30' CONSTRUCTION NOTE 460 (SAMACUNUL AND ON TOMA AND STOM EACH WAY (SEE TYPICAL INFLOOR MADIAL SAME EDOTON OF UNDALL SOLES C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIMW bdS 1HIS AT 400 vice TOTA AND BOTTOM EA		150mm EMBEDMENT INTO EXISTING CONCRETE FOOTING AT 200 o/c;
GENERAL CONTRACTOR. GENALL NEVER UNDERMINE ANY EXISTING FOOTING AND COMPLY WITH 7TO 10 SLOPE REQUIREMENT FOR ADJACENT FOOTINGS AND EXCAVITION AS PERT TYPICAL DETAIL TD-2512.8 ANY EXCAVATION NORK IN PROXIMITY OF EXISTING FOUNDATIONS SHALL BE PERFORMED UNDER TILL THE SUPERAL CONTRACTOR. (G) CONSTRUCTION NOTE ACQ (UNDERSIDE OF POOTING ELEVATIONS): UNDERSIDE OF FOOTING ELEVATION SHALL BE AT MINIMUM 1400mm DEPTH FROM GRADE LEVEL. (G) CONSTRUCTION NOTE ACQ (UNDERSIDE OF FOOTING ALD MONGS FOR PROPOSED GRADING DATA AND COODRINATE ON SITE WITH A GEOTECHNICAL ENGINEER FOR FINAL FOOTING ELEVATION. (G) CONSTRUCTION NOTE AG3 (GRIDLINES & ELAN DIMENSIONS): GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWINGS S1.1. (G) CONSTRUCTION NOTE AG3 (GRIDLINES & ELAN DIMENSIONS): GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION WALL LOCATION ON PLAN (Le OFFSET FROM GRIDLINES) (G) GENERAL CONTRACTOR SHALL CORTACTOR ON PLAN (LE OTRACTIVE TO ON ONDE THAN DIMENSIONS): GENERAL CONTRACTOR SHALL LESE THIS DRAWING FOR GUIDANCE ONLY. (G) CONSTRUCTION NOTE #G4 (SLAB ON GRADE CONSTRUCTION ON PLAN (LE OFFSET FROM GRIDLINES) (G) CONSTRUCTION MOTE #G4 (SLAB ON GRADE CONSTRUCTION) (G) CONSTRUCTION MOTE #G4 (SLAB ON GRADE CONSTRUCTION ON PLAN (LE OFFSET FROM GRIDLINES) (G) CONSTRUCTION MOTE #G4 (SLAB ON GRADE CONSTRUCTION) (G) CONSTRUCTION MOTE #G4 (SLAB ON GRADE CONSTRUCTION) (G) CONSTRUCTION MOTE #G4		OF EXISTING FOOTING ELEVATION (DEPTH TO BE SITE VERIFIED BY
C. G.C. SHALL REVER UNDERMINE ANY EXISTING FOOTING AND COMPLY WITH 71 OI SLOPE REQUIREMENT FOR ADJACENT FOOTINGS AND EXCAVATION AS PER TYPICAL DETAIL TO 2912 AMT EXCAVATION MORE IN PROVINEMENT FOR ADJACENT FOOTING SLOPE REQUIREMENT FOR ADJACENT GENERAL CONTRACTOR IN PROVINE FOR ADJACENT GENERAL CONSTRUCTION, ADDRESSIDE OF FOOTING ELEVATION SILL MARKED STATEMENT OF EXSTING FOOTING SLOPE RECOVERY GENERAL CONTRACTOR SHALL BEFER TO ARCHL DRAWING 5 FOR PROPOSED GRADING ATA AND COORDINATE ON STRUCTION, GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING SOR PROPOSED GRADING ATA AND COORDINATE ON STRUCTION NOTES' SHOWN ON DRAWING SOLATION CLEVATION AND LEVATION SHALL BEFER TO ARCHL DRAWING SOR PROPOSED GRADING SCILLS (CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES' SHOWN ON DRAWING SOLATION AND LAND MOMENSIONS; GENERAL CONTRACTOR SHALL CARPLY WITH "FOUNDATION NOTES' SHOWN ON DRAWING SOLATION AND LAND MOMENSIONS; GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GRIDLINESCOL'S LOCATION AND PLAN MOMENSIONS; GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GONSTRUCTION MOTE HER GISLAB ON GRADE CONSTRUCTION; AT OFFICE AREA ONLY (SE ARCHL FOR EXTENT): PROVIDE 17mm (57) THACK SMBPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM WIG \$ 415M AT 300 0% BOTTOM EACH WAY. EVERYWHERE ELSE FOUNDE 234mm (10°) THICK SMBPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM WIG \$ 415M AT 300 0% DATE ADD RECOVER WAY. EVERYMERE ELSE FOUNDE 234mm (10°) THICK SMBPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM WIG \$ 415M AT 300 0% DOT FAND BOTTOM EACH WAY. EVERYMERE ELSE FOR ADJACE SLAB SCHON SOLARY PARTITIONS; SEE ADD AND THE WIGH AGONING FOR GUIDANCE ONLY. EVERYMERE ELSE FOR ADJACE SLAB SCHON SOLARY PARTITIONS; GENERAL CONTRACTOR SHALL REFER TO PART.4 OF SOLAR PORTISIONE GONTRUCTION NOTE ESS (MADORY PARTITIONS; SECONTRUCTION MOLE SCHON WIGH SET TO ARCHL DENSITY MOLATION FOR G		GENERAL CONTRACTOR.
CONTINUES AND EXECUTED AS PERF TYPICAL DETAL TO 23:12 ANY VEXANATION WORK IM PROXIMITY OF EXISTING FOUNDATIONS SHALL BE PERFORMED UNDER FULL TIME SUPERVISION OF A GEOTECHNICAL CONSULTANT HIRE DIV GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL BEER TO ACRUL ROWINGS FOR PROPOSED GENERAL CONTRACTOR SHALL ECONTRACTOR AND COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER FOR FINAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DEAMINGS S11. CONSTRUCTION NOTE #33 (BRIDUINES & PLAN DIMENSIONS): CENERAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DEAMINGS S11. CONSTRUCTION NOTE #33 (BRIDUINES & PLAN DIMENSIONS): CENERAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DEAMINGS S11. CONSTRUCTION NOTE #33 (BRIDUINES & PLAN DIMENSIONS): CENERAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DEAMINGS S11. CONSTRUCTION NOTE #33 (BRIDUINES & PLAN DIMENSIONS): CENERAL CONTRACTOR SHALL DESTING ADMENSIONS. REFER TO RACHL TOR SHALL LOCATION AND PLAN DIMENSIONS. REFER TO RACHL TOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL LOCATION ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL CONTROL ON PLAN (#. OFFSET FROM GRIDUINES) CENERAL CONTRACTOR SHALL CONTROL ON STALE CONSTRUCTION NOTE #GG (\$EACOTIC TO PO FS LAB. MANASH BAY PIT PROVIDE ZSAMMIN (10') THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIN & 66 & 66 CLOSE TO PO FS LAB. YEARYMHERE ELSE PROVIDE ZSAMMIN (10') THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED NOTE STARTON		- G.C. SHALL NEVER UNDERMINE ANY EXISTING FOOTING AND
ANY EXCAVATION WORK IN PROXIMITY OF EXISTING FOUNDATIONS SHALL BE PERFORMED UNDER FULL THE SUPERVISION OF A GEOTECHNICAL CONSULTANT HIRED BY GENERAL CONTRACTOR. CONSTRUCTION NOTE ACQ (UNDERSIDE OF FOOTING LEWATIONS): UNDERSIDE OF FOOTING ELEVATION SHALL BE AT MINIMUM 1400mm DEPTH FROM GRADE LEVEL. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRADING ELEVATION. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRADING SUL1. GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWING S1.1. GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWING S1.1. GONSTRUCTION NOTE #G3 (GRIDLINES & PLAN DIMENSIONS): GENERAL CONTRACTOR SHALL CAPTON MARKINGS GENERAL CONTRACTOR SHALL CAPTON GENERAL CONTRACTOR SHALL CAPTON GENERAL CONTRACTOR SHALL CAPTON GENERAL CONTRACTOR SHALL CAPTON GENERAL CONTRACTOR SHALL CEPTER TO ARCHL DRAWINGS FOR GENERAL CONTRACTOR SHALL CEPTER THIS PROVIDE 24 fram (10) THICK SMBR CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIN 666 G CLOET DTOP OF SLAB. AT OFFICE AREA ONLY (SE ARCHL FOR EXTERT): PROVIDE 24 fram (10) THICK SMBR CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WINK 661 + 15M AT 400 ac TOP AND BOTTOM EACH WAY GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR CUDANCE ONLY. EVERYMERE ELSE FONDE 24 fram (10) THICK SMBR CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WINK 661 + 15M AT 400 ac TOP AND BOTTOM EACH WAY GENERAL CONTRACTOR SHALL REFER TO ARCH. TAROUND FOR RELEXATION GANDER RELEXAND SHAL REFER TO ARCH. TAROUND FOR RELEXAND GENERAL CONTRACTOR SHALL REFER TO ARCH. TOR SUBJECT ON CORRETE SLAB ON GRADE REINFORCED WITH WINK 661 + 15M AT 400 ac TOP AND BOTTOM EACH WA		FOOTINGS AND EXCAVATION AS PER TYPICAL DETAIL TD-2/S1.2.
SHALL BE PERFORMED UNDER FULL TIME SUPERVISION OF A GEOTECHNICAL CONSULTANT IMEED BY GENERAL CONTRACTOR. GE CONSTRUCTION NOTE #32 (UNDERSIDE OF FOOTING ELEVATIONS): UNDERSIDE OF FOOTING ELEVATION SHALL BE AT MINIMUM 1400mm DEPTH FROM GRADE LEVEL. GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWING ST. GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWING ST. GE CONSTRUCTION NOTE #33 (GRDLINES & PLAN DIMENSIONS): GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON DRAWING ST. GE CONSTRUCTION NOTE #33 (GRDLINES & PLAN DIMENSIONS): GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION WALL LOCATION ON PLAN (GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GE CONSTRUCTION NOTE #34 (SLAB ON GRADE CONSTRUCTION): A T OFFICE AREA ONLY (SEE ARCHL FOR EXTENT) PROVIDE 127mm (17) THICK 3MPa CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED WITH WWW & 66 CLOSE TO DP OF SLAB. AT WASH BAY PTI PROVIDE 234mm (10°) THICK SMPa CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED WITH WWW 803 GL BOTTOM FACH WAY. EVERYWHERE ELSE PROVIDE 234mm (10°) THICK SMPa CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED WITH WWW 803 CON TAND BOTTOM FACH WAY. EVERYWHERE ELSE PROVIDE 234mm (10°) THICK SMPa CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED WITH WWW 803 FOR TRACH WAY. EVERYWHERE ELSE PROVIDE 234mm (10°) THICK SMPA CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED WITH WWW 803 FOR TRACH WAY. EVERYWHERE ELSE PROVIDE 234mm (10°) THICK SMPA CLASS C-1 CONCRETE SLAB ON GRADE RENPORCED SHALL REFER TO PAR.1 (40° SUND AND/CC ONLY. GENERAL CONTRAC		- ANY EXCAVATION WORK IN PROXIMITY OF EXISTING FOUNDATIONS
Generation Note #22 (UNDERSIDE OF POOTING ELEVATIONS): GUNDERSIDE OF FOOTING ELEVATION SHALL BEAT MININUM 1400mm DEPTH FROM GRADE LEVEL. GENERAL CONTRACTOR SHALL BEFER TO ARCHL DRAWINGS FOR PROPOSED GRADING DATA AND COORDINATE ON STREET WITH A GENECHMICAL ENGINEER FOR FINAL FOOTING ELEVATION. GENERAL CONTRACTOR SHALL DREFER TO ARCHL DRAWINGS FOR GRIDLARSOL'S LOCATION AND ELMS DIMENSIONS): GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR GRIDLARSOL'S LOCATION AND PLAN BIGHISTONS. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR GRIDLARSOL'S LOCATION AND PLAN BIGHISTONS. GENERAL CONTRACTOR SHALL BEFER TO ARCHL DRAWINGS FOR GRIDLARSOL'S LOCATION AND PLAN BIGHISTON. GENERAL CONTRACTOR SHALL USE HIST DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. FORDIE ZITMIN (T) THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM 968 ±15M AT 400 dx TOP AND BOTTOM EACH WAY. EVERTWHERE ELSE PROVIDE Z34mm (10") THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM 968 ±15M AT 400 dx TOP AND BOTTOM EACH WAY (SET TYPICAL INFLOOR ARAAS. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. VEROVIDE Z17min (11) THICK SAMPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WIM 968 ± 15M AT 400 dx TOP AND BOTTOM EACH WAY (SEE TYPICAL INFLOOR CRESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. VEROVIDE Z17min (11)		SHALL BE PERFORMED UNDER FULL TIME SUPERVISION OF A
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FROM GRADE LEVEL. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR PROPOSED GRADING DATA AND COORDINATE ON SITE WITH A GEOTECHNICAL ENGINEER FOR FINAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DRAWING S1.1. GENERAL CONTRACTOR SHALL COMPLY WITH 'FOUNDATION NOTES' SHOWN ON DRAWING S1.1. GENERAL CONTRACTOR SHALL CAMPLY MUTH 'FOUNDATION NOTES' SHOWN ON DRAWING S1.1. GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. AT OFFICE AREA ONLY (SEE ARCHL POR EXTENT): PAT OFFICE AREA ONLY (SEE ARCHL POR EXTENT): AT OFFICE AREA ONLY (SEE ARCHL POR EXTENT): PONIDE 127mm (S') THICK 35MP3 CLONGRETE SLAB ON GRADE REINFORCED WITH WWW 666 CLOSE TOTO POF SLAB. AT WASH BAY PIT PROVIDE 234mm (10') THICK 35MP3 CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WWW 66'; +115M AT 300 wit DOT AND BOTTOM EACH WAY. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GUIDANCE ONLY. GENERAL CONTRACTO	G2	UNDERSIDE OF FOOTING ELEVATIONS): UNDERSIDE OF FOOTING ELEVATION SHALL BE AT MINIMUM 1400mm DEPTH
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GM CONSTRUCTION NOTE #G3 (GRIDLINES & PLAN DIMENSIONS): GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR GRIDLINES/CDL'S LOCATION AND LAN DIMENSIONS. REFER TO ARCHL FOR FOUNDATION WALL LOCATION ON PLAN (a. OFSET FROM GRIDLINES) GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GM CONSTRUCTION NOTE #G4 (SLAB ON GRADE CONSTRUCTION): AT OFFICE AREA ONLY (SEE ARCHL FOR EXTENT): PROVIDE 127mm (S') THICK 35MP3 CONSTRUCTION): AT OFFICE AREA ONLY (SEE ARCHL FOR EXTENT): PROVIDE 127mm (S') THICK 35MP3 CONSTRUCTION GRID REINFORCED WITH MWW 664 (SLABS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH MWW 665 (S +15M AT 400 ob CT DP AND BOTTOM EACH WAY (SEE TYPICAL INFLOOR RADIANT SLAB SECTION SG1/S2.2). (SEE TRENCRED ST THIGR RAREAS. (BALL ONTRACTOR SHALL REFER TO ARCHL DRAWING FOR GUIDANCE ONLY. PROVIDE 21 THICK X-40' WIDE 'CONTROL JONULLAR 400 HIGH DENSITY INSULATION' ROUND DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PREVENTION NOTE #G3 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNERSE, LOCATION ON PLAN IS FOR SUBGRADE PRO		GENERAL CONTRACTOR SHALL COMPLY WITH "FOUNDATION NOTES" SHOWN ON
 GUNDALCONTROLE INFORMATION TO BE ADDITIONED TO AN DIMENSIONAL STORE AND AND PLAN DIMENSIONAL STORE AND AND PLAN DIMENSIONAL STORE AND AND PLAN MAD PLAN DIMENSIONAL STORE AND AND AND PLAN MADE PLAN DIMENSIONAL STORE AND AND AND PLAN MADE PLAN DIMENSIONAL STORE AND AND AND PLAN MADE PLAN DIMENSIONAL STORE AND AND AND AND AND PLAN DIMENSIONAL STORE AND AND AND AND AND PLAN DIMENSIONAL STORE AND AND AND AND AND AND AND AND AND AND		DRAWING S1.1.
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REFER TO ARCHL FOR FOUNDATION WALL LOCATION ON PLAN (iii) CFSET FROM GROLINES) GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR OUIDANCE ONLY. CONSTRUCTION NOTE #64 (SLBB ON GRADE CONSTRUCTION): AT OFFICE AREA ONLY (SEE ARCHL FOR EXTENT): PROVIDE 127mm (57) THICK 23MPa CONCRETE SLAB ON GRADE CASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WWW 656 (±15M AT 300 ole BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10°) THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WWW 656 (±15M AT 400 ole TOP AND BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10°) THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WWW 656 (±15M AT 400 ole TOP AND BOTTOM EACH WAY. (SEE TYPICAL INFLOOR RADIANT SLAB SECTION SG1/S2.2). (GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PREVIDE 21 THICK X-40° WIDE "FOOMULAR 400 HIGH DENSITY INSULATION AROUND PROVIDE 21 THICK X-40° WIDE "FOOMULAR 400 HIGH DENSITY INSULATION AROUND PROVIDE 21 THICK X-40° WIDE "FOOMULAR 400 HIGH DENSITY INSULATION AROUND PROVIDE 21 THICK X-40° WIDE "FOOMULAR 400 HIGH DENSITY INSULATION AROUND. PREMALE CONTRACTOR SHALL REFER TO ARCH 200 GRADE PROVISIONS. [GS] CONSTRUCTION NOTE #65(MASONRY PARTITIONS): SEE ARCHL FOR THICKNENING FOR GUIDANCE ONLY. PREVIDE SAW-CUT CONTROL JOINTS): PREVIDE		GRIDLINES/COL'S LOCATION AND PLAN DIMENSIONS.
GENERAL: CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. GENERAL: CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY. AT OFFICE AREA ONLY (SEE ARCHL FOR EXTENT): PROVIDE 127mm (ST) THICK 23MPa CONCRETE SLAB ON GRADE REINFORCED WITH WWW 96 66 (CLOSE TO TOP OF SLAB. AT WASH BAY PIT PROVIDE 254mm (10') THICK 33MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 96 § +15M AT 300 old: DOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10') THICK 33MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 96 § +15M AT 400 old: DOT AND BOTTOM EACH WAY. (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SO152.2). GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS. RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK X 4-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PRIMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PROTE OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #38304 PREPARED BY THICKRESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFERT OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #38304 PROVIDE 2' THICKRESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFERT TO 'MASORRY NOTES' ON DRAWING S' FOR SPECIFICATIONS. PROVIDE SUBD ON GRADE THICKNENING AT BOTTOM OF WALLS. GONSTRUCTION NOTE #G6 (SAWCUT CONTROL JOINTS). PROVIDE SAWCUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TO-9451.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. GONSTRUCTION NOTE #G6 (GAWCUT CONTROL JOINTS). PROVIDE SAWCUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TO-9451.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. GONSTRUCTION NOTE #G6 (REQUIREMENT FOR DAVELS TO SLAB ON GRADE): PROVIDE SAWCUT GONTROL WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LOCATIONS (SEE ARCHL FOR EXTENT AND TOP OF WALLE LEVATION). PROV		REFER TO ARCH'L FOR FOUNDATION WALL LOCATION ON PLAN
Git South Construction Note #64 (SLAB ON GRADE CONSTRUCTION): AT OFFICE AREA ONLY (SEE ARCH: FOR EXTENT): PROVIDE 127mm (67) THICK 25MPA CONCRETE SLAB ON GRADE REINFORCED WITH WMW 566 (61 CLOSE TO TOP OF SLAB. AT WASH BAY PIT PROVIDE 254mm (107) THICK 35MPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 568 (3+15M AT 300 ob: BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (107) THICK 35MPA CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 568 (3+15M AT 300 ob: BOTTOM EACH WAY. (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SG1/52.2). (GENERAL CONTRACTOR SHALL REFER TO ARCH L DRAWING FOR FUDOR ELEVATION DATA. DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUDANCE ONLY. PROVIDE 27 THICK x10° WIDE 'TOMAULAR 400 HIGH DENSITY INSULATION 'AROUND PERIMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION 'AROUND PERIMETER OF SLAB AND 1' THICK FOAMULAR 400 HIGH DENSITY INSULATION 'AROUND PERIMETER OF SLAB AND 1' THICK FOAMULAR 400 HIGH DENSITY INSULATION FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOUL REPORT #38304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GE CONSTRUCTION NOTE #35 (MASONRY PARTITIONS): BEE ARCHL FOR THICKNESS, LOCATION ON PLAN 0F CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTEE GIO GAMACT TOOM OF WALLS. CONSTRUCTION NOTE #35 (NA CONTROL JOINTS): PROVIDE SAB ON GRADE THICKNEING FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTEE GIO GAMACE WITH TYPICAL DETAIL. TD #312.2 LAYOUT AS SHOWN ON PLAN IS FOR GUDANCE ONLY. CONSTRUCT		GENERAL CONTRACTOR SHALL USE THIS DRAWING FOR GUIDANCE ONLY.
AT OFFICE AREA ONLY (SEE ARCH'L FOR EXTENT): PROVIDE 12/mm (5') THICK 25MPa CONCRETE SLAB ON GRADE REINFORCED WITH WMW 66 66 (CLOSE TO TOP OF SLAB. AT WASH BAY PIT PROVIDE 254mm (10') THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 66\$ 1-15M AT 300 ok BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10') THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 66\$ 1-15M AT 400 ok TOP AND BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10') THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 66\$ 1-15M AT 400 ok TOP AND BOTTOM EACH WAY (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SG1(52.2). GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK X 4-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLAB AND 1'THICK FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLAB AND 1'THICK FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLAB AND 1'THICK FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLABS. LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFERT 0' MASONRY NOTES''ON DRAWING SI FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENIKA AT BOTTOM OF WALLS. GC CONSTRUCTION NOTE #G5 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS. LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFERT 0' MASONRY NOTES''ON DRAWING SI FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENIKA AT BOTTOM OF WALLS. GC CONSTRUCTION NOTE #G5 (SAW-CUT CONTROL JOINTS): PROVIDE SAW: OUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD:931:2 PROVIDE SAW: OUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD:931:2 PROVIDE SAW: OUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD:931:2 FOUNDAS INFOLCTION NOTE #G5 (REOPPED AT O LOCOR ATION WALLS ON MANDOOR LOCATIONS (G4	CONSTRUCTION NOTE #G4 (SLAB ON GRADE CONSTRUCTION):
PROVIDE 127mm (5') THICK 25MPa CONCRETE SLAB ON GRADE REINFORCED WITH WMW 66 66 CLOSE TO TOP OF SLAB. AT WASH BAY PIT PROVIDE 254mm (10') THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 6x6 ½ +15M AT 300 o/c BOTTOM EACH WAY EVERTWHERE ELSE PROVIDE 254mm (10') THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 6x6 ½ +15M AT 300 o/c TOP AND BOTTOM EACH WAY (SEE TYPICAL IN-LOOR RADIANT SLAB SECTION SG1/52.2). GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSION, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK X 4'-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PEREPARED DY THURER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GENERAL CONTRACTOR SHALL REFER TO PAR.74 OF SOIL REPORT #38304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. SEE ARCH FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFOR TO MASONRY NOTES''ON DRAWING SI FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENNIG AT BOTTOM OF WALLS. CONSTRUCTION NOTE #06 (SAW-CUT CONTROL JOINTS). PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/S1.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. GON CONSTRUCTION NOTE #06 (SAW-CUT	U ⁻	AT OFFICE AREA ONLY (SEE ARCH'L FOR EXTENT):
AT WASH BAY PIT PROVIDE 254/mm (107) THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 6x8 § +15M AT 300 o/c BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254/mm (107) THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 6x8 § +15M AT 400 o/c TOP AND BOTTOM EACH WAY. (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SG1/S2.2). GENERAL CONTRACTOR SHALL REFER TO ARCH1 DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWINGS FOR FLOOR ELEVATION PROVIDE 2' THICK 4'-0' WIDE 'TOMAULAR 400 HIGH DENSITY INSULATION 'FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOLL REPORT #38304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GEN CONSTRUCTION NOTE #53 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTES' ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9751 2 LAYOUT AS SHOWN ON FLAN IS FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTE #66 (SAW-CUT CONTROL JOINTS): FOUNDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9751 2 LAYOUT AS SHOWN ON FLA		PROVIDE 127mm (5") THICK 25MPa CONCRETE SLAB ON GRADE REINFORCED WITH
GRADE REINFORCED WITH WMW 6x8 \$ +15M AT 300 old BOTTOM EACH WAY. EVERYWHERE ELSE PROVIDE 254mm (10°) THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 6x8 \$ +15M AT 400 old TOP AND BOTTOM EACH WAY (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SG1/32.2). GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA. DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK 4-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PENMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GS CONSTRUCTION NOTE #66 (MASONRY PARTITIONS); SEE ARCH'L FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTES' ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. CONSTRUCTION NOTE #66 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9\S12 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. GG CONSTRUCTION NOTE #67 (REQUIREMENT FOR ADONE WIT		AT WASH BAY PIT PROVIDE 254mm (10") THICK 35MPa CLASS C-1 CONCRETE SLAB ON
EVERYWHERE ELSE PROVIDE 254mm (10") THICK 35MPa CLASS C-1 CONCRETE SLAB ON GRADE REINFORCED WITH WMW 68 § +15M AT 400 0s: TOP AND BOTTOM EACH WAY (SEE TYPICAL IN-FLOOR RADIANT SLAB SECTION SG1/S2.2), GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK X 4-0" WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' ACOUND PERIMETER OF SLAB AND 1" THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GCS CONSTRUCTION NOTE #35 (MASONRY PARTITIONS); SEE ARCHL' FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO "MASONRY NOTES' ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. GC CONSTRUCTION NOTE #36 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-981.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. CONSTRUCTION NOTE #367 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 140M DWL'S AT 6000/s (600H+6000V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP AT 0 H DOOR AREA) G77 CONSTRUCTION NOTE #63 (REQUIREMENT FOR PAUDATION WALL ELEVATION): FOUNDATION WALLS SHALL BE CROPPED AT 0.H DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION): FOUNDATION WALLS SHALL BE CROPPED AT 0.H DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) (SEE DETAIL HD1/S1.3). 200 G81 CONSTRUCTION NOTE #638 (REQUIREMENT FOR HAIRPINS): PROVIDE CONTROLOW TO BE (SEA RECHLED AROUND ANCHOR RODS AND SEE OCHONING S1.3 FOR STENDENT HOR PALADER HIGKENING		GRADE REINFORCED WITH WMW $6 \times 6 \frac{6}{6} + 15M$ AT 300 o\c BOTTOM EACH WAY.
GRADE REINFORCED WITH WMW 8x8 ±15M AT 400 % TOP AND BOTTOM EACH WAY (SEE TYPICAL IN-LOOR RADIANT SLAB SECTION SG1/S22). GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK X 4-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GEN CONSTRUCTION NOTE #05 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO 'MASONRY MOTES' ON DRAWING 51 FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. GE CONSTRUCTION NOTE #30 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE). PROVIDE SABOW ON PLAN IS FOR GUIDANCE ONLY. CONSTRUCTION NOTE #37 (REQUIREMENT FOR HAIRPINS): PROVIDE 10M DWL's AT 6000°C (600H+6000') FROM FOUNDATION WALL ELEVATION): GOT CONSTRUCTION NOTE #36 (CLSM BACKFILL): PROVIDE 200M HAIRPINS (2600mm LONG) AT LINES # 5 - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND		EVERYWHERE ELSE PROVIDE 254mm (10") THICK 35MPa CLASS C-1 CONCRETE SLAB ON
GENERAL CONTRACTOR SHALL REFER TO ARCHL DRAWINGS FOR FLOOR ELEVATION DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2' THICK 4'-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND PERIMETER OF SLAB AND 1' THICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR 74 OF SOIL REPORT #38304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. G5 CONSTRUCTION NOTE #GS (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO 'MASONRY NOTES' ON DRAWING S' FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. G6 CONSTRUCTION NOTE #GS (MASONRY PARTITIONS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9312 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. G7 CONSTRUCTION NOTE #GS (REOUREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DW15 AT 6000-k (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H.DOOR AREA) G7 CONSTRUCTION NOTE #GS (REOUREMENT FOR HARPINS): PROVIDE 2:20M HAIRPINS (2600mm LONG) AT LINES # B - 5 8.6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND LOCATION WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LOCATION WALLS SHALL BE AROUND ANCHOR RODS AND LOCONSTRUCTION NOTE #GS (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH CONCRETE BACKFILL WITH 13MPA COMPRESSIVE STRENGTH AT 28 DAYS FROM US OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE (SEE DETAIL HD1/51.3). G9 CONSTRUCTION NOTE #GS (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH CONCRETE FOUNDATION WALLS (SEE DRAWING 51.3 FOR REINFORCING DETAILS) THIS SYMBOL DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING 51.3		GRADE REINFORCED WITH WMW $6x6 \frac{9}{6}$ +15M AT 400 o/c TOP AND BOTTOM EACH WAY
 DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY. PROVIDE 2* THICK X 4*0* WIDE *FOAMULAR 400 HIGH DENSITY INSULATION* AROUND PERIMETER OF SLAB AND 1* THICK. *FOAMULAR 400 HIGH DENSITY INSULATION* FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. SEE ARCHT, FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO *MASONRY NOTES* ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. CONSTRUCTION NOTE #66 (SAW-CUT CONTROL JOINTS): PROVIDE SAM-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/51.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. CONSTRUCTION NOTE #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H. DOOR AREA) CONSTRUCTION NOTE #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H. DOOR AREA) CONSTRUCTION NOTE #67 (REQUIREMENT FOR HAIRPINS): PROVIDE 2:20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. DARS SHALL BE INSTALLED AROUND ANCHOR RODS AND LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT 0.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) FOONDATION NOTE #69 (CLSM BACKFILL); PROVIDE 2:20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. DARS SHALL BE INSTALLED AROUND ANCHOR RODS AND GENERATION NOTE #69 (CLSM BACKFILL); PROVIDE CONTROLED LOW-STRENOTH CONCRETE BACKFILL WITH 14MPA COMPRESSIVE STRENOTH AT 28 DAYS FROM U/S OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE (SEE DRAWING S1.3 FOR REINFORCING DETAILS)<td></td><td>GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR FLOOR ELEVATION</td>		GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR FLOOR ELEVATION
 PROVIDE 2' THICK X 4'-0' WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' ROUND PERIMETER OF SLAB AND 1'T HICK 'FOAMULAR 400 HIGH DENSITY INSULATION' FOR REMAINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. CONSTRUCTION NOTE #G5 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO ''MASONRY NOTES' ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. CONSTRUCTION NOTE #G6 (SAW-CUT CONTROL JOINTS): PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. CONSTRUCTION NOTE #G7 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 54.04 ON ON PLAN IS FOR GUIDANCE ONLY. CONSTRUCTION NOTE #G7 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 100M DWL'S AT 6000-k (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP-AT O.H.DOOR AREA) CONSTRUCTION NOTE #G7 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): FOUNDATION WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LORONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LORONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) CONSTRUCTION NOTE #G8 (REQUIREMENT FOR HAIRPINS): PROVIDE 2-200 HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND		DATA, DEPRESSIONS, RECESSES AND USE THIS DRAWING FOR GUIDANCE ONLY.
FERMINDER OF INTERIOR AREAS. GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. G3 CONSTRUCTION NOTE #56 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO "MASONRY NOTES" ON DRAWING S1 FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. G6 CONSTRUCTION NOTE #65 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/31.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. G7 CONSTRUCTION NOTE #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWLS AT 60004 (6000H-600V) FROM FOUNDATION WALL TO SLAB ON GRADE): PROVIDE TON DOTE #67 (TOP OF FOUNDATION WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT 0.H.DOR AND MANDOOR LOCATIONN OTE #68 (REQUIREMENT FOR HAIRPINS): PROVIDE 2-200M HAIRPINS (2600mm LONG) AT LINES # B - S & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND		PROVIDE 2" THICK X 4'-0" WIDE 'FOAMULAR 400 HIGH DENSITY INSULATION' AROUND
GENERAL CONTRACTOR SHALL REFER TO PAR 7.4 OF SOIL REPORT #36304 PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. G5 CONSTRUCTION NOTE #65 (MASONRY PARTITIONS): SEE ARCHL FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO "MASONRY NOTES" ON DRAWING S1 FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. G6 CONSTRUCTION NOTE #66 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/S1.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. [G7] G7 CONSTRUCTION NOTE #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H.DOOR AREA) [G7] CONSTRUCTION NOTE #67 (REQUIREMENT FOR HAIRPINS) PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H.DOOR AREA) [G7] CONSTRUCTION NOTE #63 (REQUIREMENT FOR HAIRPINS): PROVIDE 2.20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND 		REMAINDER OF INTERIOR AREAS.
PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS. GONSTRUCTION NOTE #G5 (MASONRY PARTITIONS): SEE ARCHT. FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO "MASONRY NOTES" ON DRAWING S1 FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. GG CONSTRUCTION NOTE #G6 (SAW-CUT CONTROL JOINTS): PROVIDE SAMOUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/S12 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. GT CONSTRUCTION NOTE #G7 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL's AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE): PROVIDE 2000 AREA) (G7 CONSTRUCTION NOTE #G7x (TOP OF FOUNDATION WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT 0.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION): FOUNDATION NOTE #G8 (REQUIREMENT FOR HAIRPINS): PROVIDE 2.20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND GSE DETAIL HD1/S1.3). GG CONSTRUCTION NOTE		GENERAL CONTRACTOR SHALL REFER TO PAR.7.4 OF SOIL REPORT #36304
Image: Construction Note #65 (MASONRY PARTITIONS): SEE ARCHL; FOR THICKNESS, LOCATION ON PLAN OF CONCRETE BLOCK PARTITIONS AND USE THIS DRAWING FOR GUIDANCE ONLY. REFER TO "MASONRY NOTES" ON DRAWING ST FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. Image: Construction Note #66 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9612 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. Image: Construction Note #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL's AT 6000k (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE): PROVIDE 10M DWL's AT 6000k (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP, AT O H. DOOR AREA) Image: Construction Note #67 (REQUIREMENT FOR DAVID WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT 0.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION): FOUNDATION NOTE #69 (CLSM BACKFILL): PROVIDE 2.20M HAIRPINS (28000mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND EMBEDDED INTO 1200mm SQ.x200 DP. SLAB ON GRADE THICKENING (SEE DETAIL HD1/S1.3). Image: CONSTRUCTION NOTE #69 (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH AT 28 DAYS FROM U/S OF CONCRETE APRON DOWN TO MINMUM 1400mm BELOW GRADE (SEE ARCH'L FOR O.H.DOOR LOCATION A		PREPARED BY THURBER ENGINEERING LTD. FOR SUBGRADE PROVISIONS.
 BALE AIRDANESS, DEVELON DATION PLAND FOR OUTDANCE ONLY. REFER TO "MASONRY NOTES" ON DRAWING S1 FOR SPECIFICATIONS. PROVIDE SLAB ON GRADE THICKNENING AT BOTTOM OF WALLS. CONSTRUCTION NOTE #66 (SAW-CUT CONTROL JOINTS): PROVIDE SAW-CUT CONTROL JOINTS IN ACCORDANCE WITH TYPICAL DETAIL TD-9/S1.2 LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY. CONSTRUCTION NOTE #67 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL'S AT 6000:e (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT 0.H.DOOR AREA) CONSTRUCTION NOTE #67x (TOP OF FOUNDATION WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT 0.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) CONSTRUCTION NOTE #68 (REQUIREMENT FOR HAIRPINS): PROVIDE 2-20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND EMEDDED INTO 12200mm SQ.2200 DP. SLAB ON GRADE THICKENING (SEE DETAIL HD1/S1.3). CONSTRUCTION NOTE #69 (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH CONCRETE BACKFILL WITH 13MPA COMPRESSIVE STRENGTH AT 28 DAYS FROM US OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE (SEE ARCH'L FOR 0.H.DOOR LOCATION AND CONCRETE POUR EXTENT). THES SYMBOL DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING S1.3 FOR REINFORCING DETAILS) THESE SYMBOLS DENOTES PROPOSED REINFORCED CONCRETE PIERS 'P#' AND FOOTINGS 'F#' SEE DRAWING S1.3 FOR SCHEDULES FESIGN NOTE #A REQUIREMENT FOR SITING ADJACENT BUILDING FOUNDATION WALLS (EX-W#); ONCRETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-F#) AND STEEL COLUMNS (EX-C#). NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 198 BY J D MC AULEY ARCHITECT INC. 	G5	CONSTRUCTION NOTE #G5 (MASONRY PARTITIONS):
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G7 CONSTRUCTION NOTE #G7 (REQUIREMENT FOR DOWELS TO SLAB ON GRADE): PROVIDE 10M DWL's AT 6000/c (600H+600V) FROM FOUNDATION WALL TO SLAB ON GRADE (TYP.AT O.H.DOOR AREA) G7x CONSTRUCTION NOTE #G7x (TOP OF FOUNDATION WALL ELEVATION): FOUNDATION WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) G8 CONSTRUCTION NOTE #G8 (REQUIREMENT FOR HAIRPINS): PROVIDE 2-20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND EMBEDDED INTO 1200mm SQ.x200 DP. SLAB ON GRADE THICKENING (SEE DETAIL HD1/S1.3). G9 CONSTRUCTION NOTE #G9 (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH CONCRETE BACKFILL WITH 13MPa COMPRESSIVE STRENGTH AT 28 DAYS FROM U/S OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE (SEE ARCH'L FOR O.H.DOOR LOCATION AND CONCRETE POUR EXTENT). WF# THIS SYMBOL DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING S1.3 FOR REINFORCING DETAILS) WF# THESE SYMBOLS DENOTES PROPOSED REINFORCED CONCRETE PIERS 'P# AND FOOTINGS 'F# SEE DRAWING S1.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) :ONCRETE FOO NDRAWING S1.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) :ONCRETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#). NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.		LAYOUT AS SHOWN ON PLAN IS FOR GUIDANCE ONLY.
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G/X CONSTRUCTION WALLS SHALL BE DROPPED AT O.H.DOOR AND MANDOOR LOCATIONS (SEE ARCH'L FOR EXTENT AND TOP OF WALL ELEVATION) G8 CONSTRUCTION NOTE #68 (REQUIREMENT FOR HAIRPINS): PROVIDE 2-20M HAIRPINS (2600mm LONG) AT LINES # B - 5 & 6. BARS SHALL BE INSTALLED AROUND ANCHOR RODS AND EMBEDDED INTO 1200mm SQ.x200 DP. SLAB ON GRADE THICKENING (SEE DETAIL HD1/S1.3). G9 CONSTRUCTION NOTE #69 (CLSM BACKFILL): PROVIDE CONTROLLED LOW-STRENGTH CONCRETE BACKFILL WITH 13MPa COMPRESSIVE STRENGTH AT 28 DAYS FROM U/S OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE (SEE ARCH'L FOR O.H.DOOR LOCATION AND CONCRETE POUR EXTENT). WF# THIS SYMBOL DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING S1.3 FOR REINFORCING DETAILS) WF# THESE SYMBOLS DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING S1.3 FOR REINFORCING DETAILS) EESIGN NOTE #A REQUIREMENT FOR SITE VERIFICATIONS): SEE SCHEDULE ON DRAWING S1.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) CONCRETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#). NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC:		
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(SEE ARCH'L FOR O.H.DOOR LOCATION AND CONCRETE POUR EXTENT). Image: WF# THIS SYMBOL DENOTES PROPOSED CONCRETE FOUNDATION WALLS (SEE DRAWING S1.3 FOR REINFORCING DETAILS) Image: These symbols denotes proposed reinforced concrete piers 'P#' and FOOTINGS 'F#' SEE DRAWING S1.3 FOR SCHEDULES Image: PESIGN NOTE #A REQUIREMENT FOR SITE VERIFICATIONS): SEE SCHEDULE ON DRAWING S1.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) CONCRETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#). Image: NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.		FROM U/S OF CONCRETE APRON DOWN TO MINIMUM 1400mm BELOW GRADE
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DESIGN NOTE #A REQUIREMENT FOR SITE VERIFICATIONS): SEE SCHEDULE ON DRAWING S1.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) ONCRETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#). NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.		FOOTINGS 'F#' SEE DRAWING S1.3 FOR SCHEDULES
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NY INFORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.	REQU EE SC	TEDULE ON DRAWING ST.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#)
ROM DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.	REQU EE SC ONCF	REPOLE ON DRAWING ST.3 FOR EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) RETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#).
	REQU EE SC ONCF NY IN	FORMATION ON THE EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#)
SEF. DRAWING 8721-ST-STAWPED ON DEC. 16, 87) AND SHALL BE TAKEN FOR GUIDANCE ONLY.	REQU EE SC ONCF NY IN ROM I	FORMATION ON THE EXISTING ADJACENT BUILDING FOUNDATION WALLS (EX-W#) RETE FOOTINGS (EX-F#), CONCRETE PIERS (EX-P#) AND STEEL COLUMNS (EX-C#). FORMATION ON THE EXISTING BASE BUILDING SHOWN ON THESE DRAWINGS WERE TAKEN DESIGN PREPARED IN 1987 BY J D MC AULEY ARCHITECT INC.

ENGINEER ANY DISCREPANCY PRIOR TO COMMENCING ANY WORK.

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alaimo			
architectui	ſе		
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8551 Weston Rd. Unit 202 Woodbridge, ON L4L 9R4			
P: (905) 856-2840 F: (905) 856-4912			
into@alaimoarchitecture.co	m		
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	THESE DRAWINGS ARE THE PROPERTY OF EXSEN ENGINEERING LTD AND CANNOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.
1 ROOF FRAMING PLAN S3.1 SCALE: 1:50	CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND BE RESPONSIBLE FOR SAME.
ROOF FRAMING DESIGN NOTES (NBC'15 & OBC'12-PART 4):	ANY DISCREPANCIES TO BE REPORTED BEFORE COMMENCING ANY WORK.
1. SEE ALSO ROOF FRAMING & DECK GENERAL NOTES ON DRAWING \$1.1:	ONLY FINAL APPROVED DRAWINGS TO BE USED AND ALL PRINTS TO BE RETURNED UPON COMPLETION OF WORK.
 ALL OWSJ SHALL HAVE 100mm DEEP JOIST SHOES; DESIGN LIVE LOAD IS 2.24 KPa (46.8PSE) AS PER Ss=2.30KPa, Sr= 40KPa 	
(ORANGEVILLE NBC'15) Cb=.80 AND Is=1.0;	Orientation
4. SEE ROOF FRAMING NOTES ON DRAWING ST. FOR WATER RETENTION ASSESSMENT; 6. THE DOOF FRAMING HAS BEEN DESIGNED FOR A SUDEDIMDOSED DEAD	
5. THE ROOF FRAMING HAS BEEN DESIGNED FOR A SUPERIMPOSED DEAD LOAD OF 1.25 KPa (26.1PSF);	
6. "D1" ON PLAN DENOTES 38mm DP.X .91mm (20GA.) ROOF METAL DECK (TYP.U/N OTHERWISE ON PLAN);	
 SEE ALSO "ROOF DECK NOTES" ON DRAWING S1.1 FOR FASTENING DETAILS; "TJ" ON PLAN DENOTES TIE JOISTS. EXTEND BOTTOM CHORD AND CONNECT 	ISSUED FOR TENDER
9. ALL STEEL JOISTS TO BE DESIGNED BY A PROFESSIONAL ENGINEER IN	
ADDITION OT THE DEAD AND LIVE LOADS INDICATED, THE JOISTS SHALL BE DESIGNED TO RESIST THE WIND FORCES RESULTING IN UPLIFT CONDITIONS,	
IN ACCORDANCE WITH THE NBC. SEE ALSO UPLIFT FORCE DIAGRAM ON DRAWING S1.1;	
10. DESIGN JOISTS FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360; 11. AN INDEPENDENT TESTING COMPANY IS TO INSPECT THE STRUCTURAL	
STEEL IN THE FIELD FOR WELDING, CONNECTIONS, BOLT TORQUES AND GENERAL CONFORMANCE WITH STRUCT'L DRAWINGS;	
12. STEEL DECK TO BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE CANADIAN SHEET STEEL BUILDING INSTITUTE.	
LEGEND - MISCELLANEOUS METAL MEMBERS	
L1x : ON PLAN DENOTES L-76x76x6.4 COLUMN TIES	
TO TOP CHORD OF OWSJ.'X-BRDG-1'IF PERPENDICULAR TO OWSJ's, PROVIDEL1x	
X-BRIDGING OVER MINIMUM TWO SPANS (SEE LOCATIONS AS SHOWN ON PLAN)	
ON PLAN DENOTES L-152x102x8.0 (LLH) CONTINUOUS CLOSURE ANGLE	
ON PLAN DENOTES L-102x102x6.4 CONTINUOUS CLOSURE ANGLE 5 L# 5 (SEE ARCH'L FOR EDGE OF DECK)	
CONSTRUCTION NOTE :	
GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION OF THESE MEMBERS WITH STEEL AND JOIST SUPPLIER PRIOR TO COMMENCING ANY WORK.	
GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY P ENG FOR REVIEW AND APPROVAL PRIOR TO COMMENCING ANY WORK.	
CONSTRUCTION NOTES	
CONSTRUCTION NOTE # 1 THESE DRAWINGS SHOW THE COMPLETE STRUCTURE	NO. DESCRIPTION DATE
IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CHOOSE CONSTRUCTION	1 FOR COORDINATION DEC.10, 2022
	2 FOR FINAL COORDINATION DEC.16, 2022 3 FOR FINAL COORDINATION AUG.01, 2023
R1 CONSTRUCTION NOTE #R1 (PROPOSED EXTERIOR WALLS): GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR	4 FOR BUILDING PERMIT & SPA AUG.08, 2023
AND DETAILS AND USE THESE DRAWINGS FOR GUIDANCE ONLY.	5 FOR TENDER JAN.20, 2025
R2 CONSTRUCTION NOTE #R2 (PROPOSED GIRTS BELOW):	
GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR	alaimo
DRAWINGS FOR GUIDANCE ONLY.	architecture
R3 CONSTRUCTION NOTE #R3 (PROPOSED VERTICAL BRACES):	inc.
VERTICAL 'X-BRACES .	8551 Weston Rd. Unit 202
INVERTED 'V-BRACES.	Woodbridge, ON L4L 9R4 P: (905) 856-2840 F: (905) 856-4912
GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED "FOR	info@alaimoarchitecture.com
CONNECTIONS BY PENG PRIOR TO COMMENCING ANY WORK.	P ENG Stamp
GENERAL CONTRACTOR SHALL REFER TO ARCH'L DRAWINGS FOR ANY PLAN DIMENSION, GRIDLINES LOCATION, EXTERIOR WALLS OFFSET	ASP PROFESSION UK
THIS PLAN SHALL BE USED FOR GUIDANCE ONLY.	G. CRIMI
R5 CONSTRUCTION NOTE #R5 (VERTICAL SLOTTED CONNECTION): VSC' ON PLAN DENOTES VERTICAL SLOTTED CONNECTION FOR 'WIND	JAN.20/25 O HCE OF ONTR
COLUMN' TO UNDERSIDE OF CONTINUOUS ROOF BEAM. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED "FOR	
CONNECTIONS" BY P ENG PRIOR TO COMMENCING ANY WORK.	
R6 CONSTRUCTION NOTE #R6 (SHEAR CONNECTION AT CANT'D END): PROVIDE SHEAR CONNECTION FOR ROOF BEAM ONTO CANT'D END	CONSULTING ENGINEERS
SUPPORT. SEE NOTES CN1 & CN2 ON DRAWING S4.1 FOR DETAILS. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED "FOR	390 TAREYTON RD. RICHMOND HILL, ON L4C 3X7
CONNECTIONS" BY P ENG PRIOR TO COMMENCING ANY WORK.	Ph. (416) 712-0970 exseneng11@gmail.com
A DESIGN NOTE #A (MOMENT CONNECTIONS):	Drawing Title
(M#) THIS SYMBOL ON PLAN DENOTES BEAM TO COLUMN MOMENT CONNECTION	ROOF FRAMING PLAN
FOR THE FOLLOWINT FACTORED VALUES: M1= 80KNm; M2= 50KNm.	
G.C. SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS SEALED "FOR CONNECTIONS" BY P.ENG.IN ONTARIO PRIOR TO FABRICATION/ERECTION	
(SEE "STRUCTURAL STEEL NOTES" ON DRAWING S1.1 FOR DETAILS). G.C.SHALL HIRE AN INDEPENDENT TESTING AGENCY TO SITE VERIFY ALL	PROJECT NAME ORANGEVIIIE ODEDATION
BOLTED AND WELDED CONNECTIONS. A FIELD REVIEW REPORT SEALED AND PREPARED BY P ENG IN ONTARIO SHALL CERTIFY COMPLIANCE WITH	CENTRE EXPANSION
DESIGN DRAWINGS, CURRENT CODES AND REGULATIONS.	500C LINE, ORANGEVILLE,ONTARIO
K CONSTRUCTION NOTE #K:	Scale As Noted Sheet Number
(0.00 REFERENCE ELEVATION IS HIGH POINT AT U/S DECK LEVEL).	Issued by JC
MAXIMUM ROOF SLOPE TO DRAIN LOCATIONS SHALL NOT EXCEED 150mm. GENERAL CONTRACTOR SHALL REFER TO ARCH'L ROOF PLAN FOR	Project No 22036 53.1
ROOF SLOPES, DRAIN LOCATIONS AND HIGH/LOW POINTS ELEVATIONS. G.C.SHALL COORDINATE WITH ARCHITECT AND STEEL DETAILER TO DETERMINE	Rev. No 1
TOP OF STEEL ELEVATIONS AND USE THIS DRAWING FOR GUIDANCE ONLY.	'ARCH E1' SIZE

E DRAWINGS ARE THE PROPERTY OF EXSEN IEERING LTD AND CANNOT BE USED OR ODUCED WITHOUT WRITTEN PERMISSION. RACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ELEVATIONS AND BE RESPONSIBLE FOR SAME. DISCREPANCIES TO BE REPORTED BEFORE IENCING ANY WORK. FINAL APPROVED DRAWINGS TO BE USED AND ALL 'S TO BE RETURNED UPON COMPLETION OF WORK. S ARE NOT TO BE SCALED.		
DESCRIPTION FOR COORDINATION FOR FINAL COORDINATION FOR FINAL COORDINATION FOR FINAL COORDINATION FOR BUILDING PERMIT & SPA FOR TENDER	DATE DEC.10, 2022 DEC.16, 2022 AUG.01, 2023 AUG.08, 2023 JAN.20, 2025	
alaimo architecture nc. 3551 Weston Rd. Unit 202 Woodbridge, ON L4L 9R4 2: (905) 856-2840 3: (905) 856-4912 nfo@alaimoarchitecture.com ENG Stamp		
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ROOF SECTIO JECT NAME DRANGEVILLE OPE CENTRE EXPAN OC LINE, ORANGEVILL L9W 4Z3 e As Noted Shee	NS RATION SION E,ONTARIO	
ed by JC ect No 22036 AUG/08/2023 Rev. No 1 'ARCH E1' SIZE	53.2	

STEEL COLUMN /BASE PLATE SCHEDULE				
MARK	COLUMN SIZE	BASE PLATE (350W)	ANCHOR BOLTS (F1554 A36)	DETAILS
C1	HSS 178x178x6.4 C1 (HSS 7x7x1/4") G40.21 350 W CLASS C	356x19x356 (14x ₄ ³ "x14)	4-19mm Ø AB's. MIN.300mm EMBEDMENT +89mm (3 ¹ / ₂ ") BOTTOM HOOK	BP1
		380x25x380 (15x1"x15)	6-25mm Ø AB's. MIN.550mm EMBEDMENT + 356x25x52 BOTTOM PLATE FOR EACH GROUP OF THREE ANCHORS	BP1x
C2	W310x67 (W12x45) G40.21 350 W	380x38x560 (15x1 1/2"x22)	6-29mm (1 1/8") Ø AB's. x456mm (18") MIN.EMBEDMENT HEADED HEX (1 1/16" WIDTH x 11/16" HEIGHT ASTM REGULAR HEAD)	BP2
C3	HSS 152x152x6.4 (HSS 6x6x1/4") G40.21 350 W CLASS C	330x19x203 (13x ₄ ³ "x8)	4-19mm Ø AB's. MIN.300mm EMBEDMENT +89mm (3 ¹ / ₂ ") BOTTOM HOOK	BP3
CONSTRUCTION NOTES: i) U/S BASE PLATE ELEVATIONS AT -300mm BELOW FFE EXCEPT AS SHOWN ON PLAN. G.C./STEEL MANUFACTURER SHALL COORDINATE w/ARCHITECT FOR ELEVATION DATA AND SUBMIT SHOP DRAWINGS SEALED BY P ENG FOR REVIEW AND APPROVAL; ii) PROVIDE MIN.50mm LEVELLING GROUT AT U/S BASE PLATES (TYP.);				

iii) TO OBTAIN NOMINAL RODS LENGTH, ADD TO REQUIRED CONCRETE EMBEDMENT :

-ANCHOR PROJECTION, BASE PLATE AND LEVELLING PLATE THICKNESSES, 50mm LEVELLING GROUT.

500

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CONT	E DRAWINGS ARE THE PROPERTY OF EXSEN EERING LTD AND CANNOT BE USED OR DDUCED WITHOUT WRITTEN PERMISSION.	
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NO.	DESCRIPTION	DATE
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2	FOR FINAL COORDINATION	DEC.16, 2022
3 4	FOR FINAL COORDINATION	AUG.08, 2023
5	FOR TENDER	JAN.20, 2025
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290 UNREINF. CONC. BLOCK PARTITION WALL ABOVE: LATERALLY CONNECTED U/S DECK (SEE TYP.DETAIL TD17/S1.2) 152x152x6.4mm CONT.

STEEL CLOSURE ANGLE. (TYP. ALL AROUND)

> PROVIDE CMU INFILL AS REQ'D

PROVIDE TOP TWO COUSES OF 100% SOLID MASONRY (TYP. UNDER WALL PL.)

290 CONC. BLOCK MASONRY WALL REINF.w/ 15M VERT.@ EVERY OTHER CORE+ HORIZ.GALV.LADDER TYPE REINF'G @ EVERY OTHER COURSE (TYP.)

