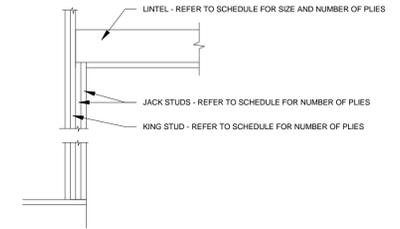


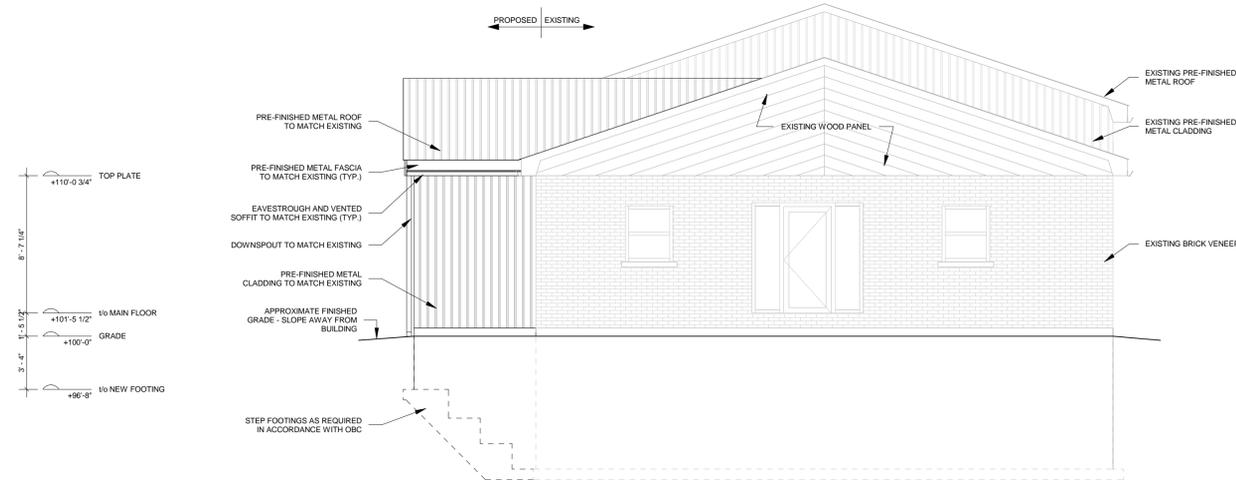
DOOR SCHEDULE						
TAG	DESCRIPTION	ROUGH OPENING	HEAD HEIGHT	LINTEL	BEARING	COMMENTS
D-1	36"W x 80"H INTERIOR	38-1/2" x 82-1/2"	82-1/2"	2-PLY 2x4 SPF No.1/No.2	1 JACK STUD / 1 KING STUD EACH END	PROVIDE POWER DOOR OPERATOR
D-2	36"W x 80"H DOOR OPENING	38-1/2" x 82-1/2"	82-1/2"	2-PLY 2x4 SPF No.1/No.2	1 JACK STUD / 1 KING STUD EACH END	
WINDOW SCHEDULE						
TAG	DESCRIPTION	ROUGH OPENING	HEAD HEIGHT	BEARING	COMMENTS	
WN-1	72"W x 66"H WINDOW	73"W x 67"H	104"	2-JACK STUDS / 2 KING STUDS EACH END		

NOTE:

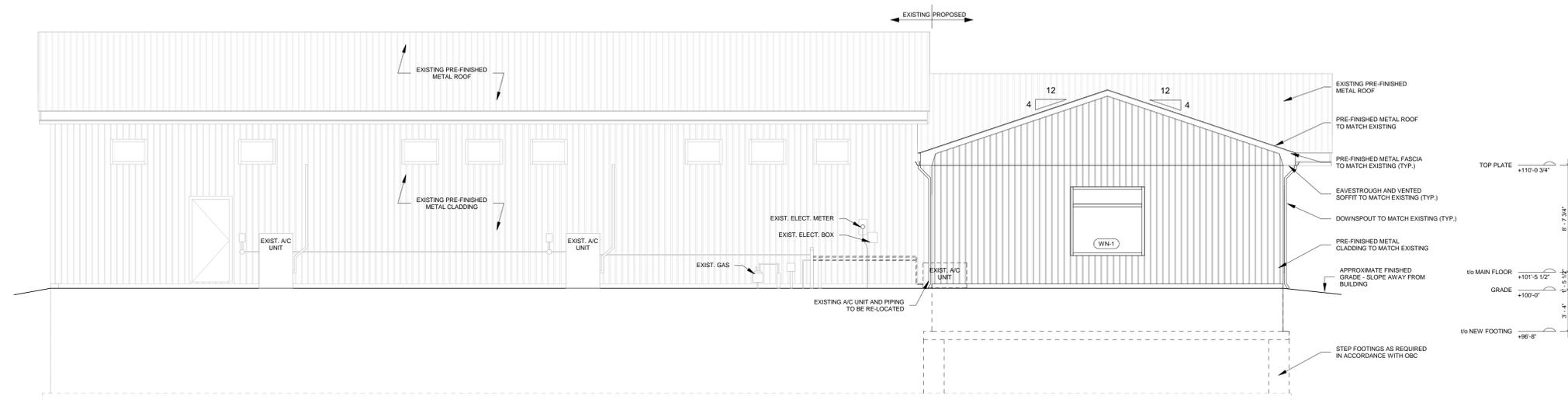
1. ALL JACK STUDS / KING STUDS TO BE 2x6 SPF No.1 / No.2 FOR 2x6 FRAMED WALLS AND 2x8 SPF No.1 / No.2 FOR 2x8 FRAMED WALLS.
2. LAMINATE BUILT UP STUD POSTS IN ACCORDANCE WITH OBC.
3. CONTRACTOR TO CONFIRM ROUGH OPENINGS PRIOR TO CONSTRUCTION.
4. ALL EXTERIOR GRADE DOORS TO BE INSULATED.



WOOD LINTEL DETAIL



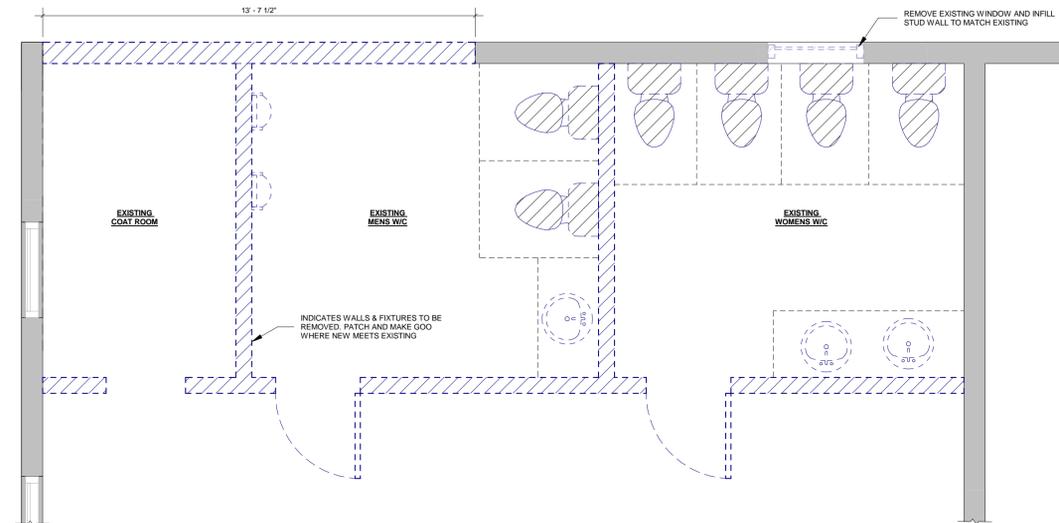
1 WEST ELEVATION
3/16" = 1'-0"



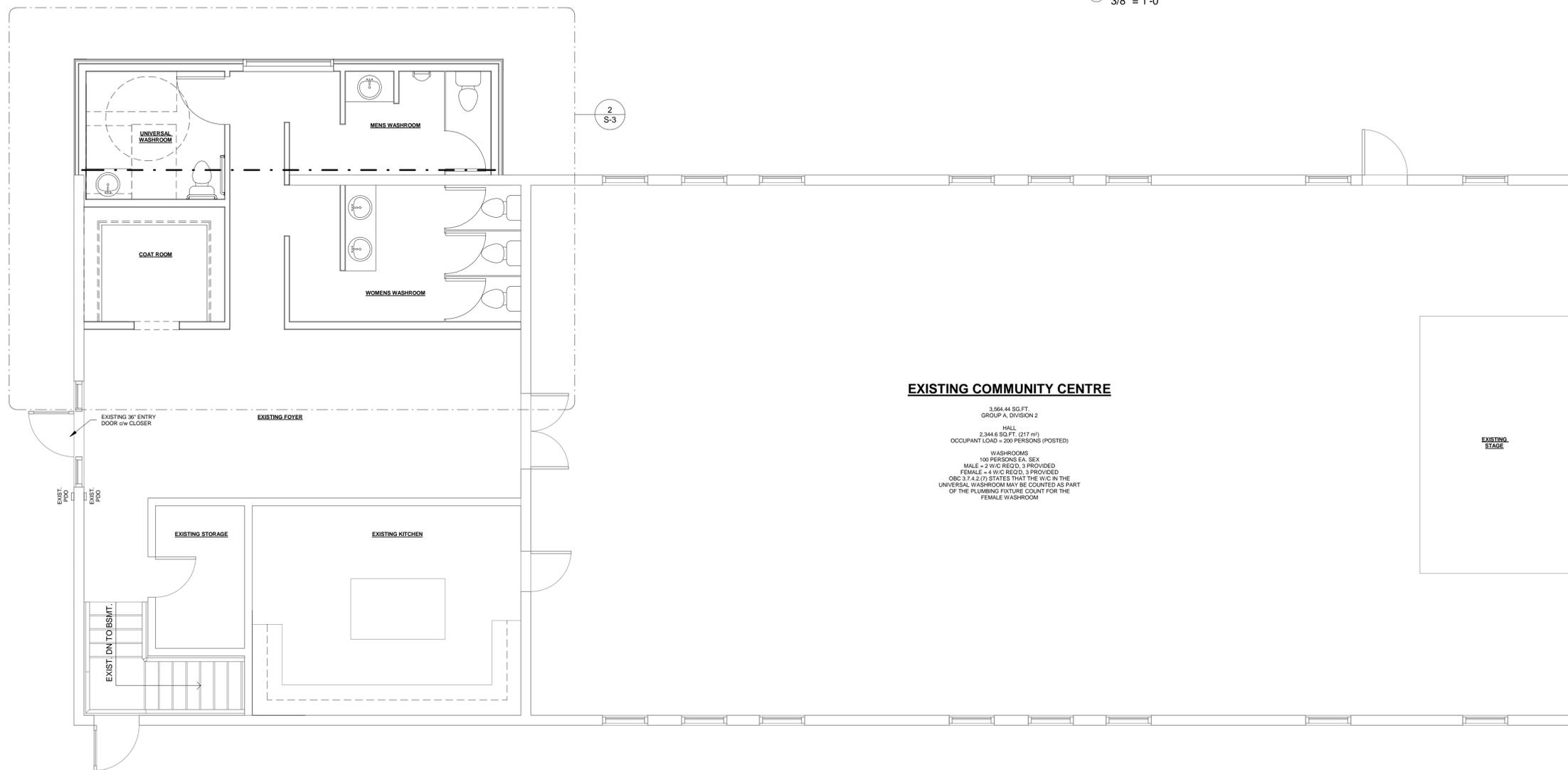
2 NORTH ELEVATION
3/16" = 1'-0"

NORTH	DESIGN	MR	No.	REVISION DESCRIPTION	MM/DD/YY	CHKD	WASYLKO ARCHITECT INC. 370 QUEENS AVE LONDON ON N6B 1A5 519.663.0888 FAX 663.5258	MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT JOHNSON ENGINEERING CONSULTANTS STRUCTURAL - CIVIL - MUNICIPAL 18191 271-9923	STRUCTURAL CONSULTANT ENGINEERING AND DESIGN LTD. PRELIMINARY NOT FOR CONSTRUCTION	150 CENTRE ST., DASHWOOD, ON NOM 1N0	SCALE As indicated	DASHWOOD COMMUNITY CENTRE WASHROOM RENOVATION ELEVATIONS	PROJECT No. MR18-098
	DRAWN	MR	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR							SHEET No. S-1
	DATE	OCT. 2018	2.	ISSUED FOR APPROVAL	10/04/18	MR							

- CONSTRUCTION NOTES
1. ALL CONSTRUCTION TO MEET OR EXCEED THE 2012 OBC REQUIREMENTS.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SITE DIMENSIONS AND ACCOMMODATE ANY VARIATIONS FROM WHAT IS DRAWN.
 3. WINDOW AND DOOR SIZES GIVEN ON THE PLAN ARE BASED ON NOMINAL SIZES. ALL SIZES TO BE VERIFIED WITH OWNER AND ADJUSTED TO MANUFACTURER'S SPECIFICATIONS.
 4. DIMENSIONS ARE TO THE FACE OF CONCRETE WALLS / STUDS. WALLS ARE DIMENSIONED ACTUAL SIZE (I.E. 2" x 4" STUD - 1.57" x 3.12").
 5. BLOCK ALL BEAMS AND GIRDER TRUSSES DOWN TO THE FOUNDATION.



2 PARTIAL DEMOLITION PLAN
3/8" = 1'-0"



1 GROUND FLOOR PLAN
1/4" = 1'-0"

NORTH



DESIGN	MR	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D
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ARCHITECT

WASYLKO ARCHITECT INC.

370 QUEENS AVE
LONDON ON
N6B 1A5
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**PRELIMINARY
NOT FOR CONSTRUCTION**

MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT

JOHNSON ENGINEERING CONSULTANTS

STRUCTURAL - CIVIL - MUNICIPAL
18191 271-9923

**PRELIMINARY
NOT FOR CONSTRUCTION**

STRUCTURAL CONSULTANT

MR ENGINEERING AND DESIGN LTD.

**PRELIMINARY
NOT FOR CONSTRUCTION**

150 CENTRE ST.,
DASHWOOD, ON
NOM 1N0

SCALE
As indicated

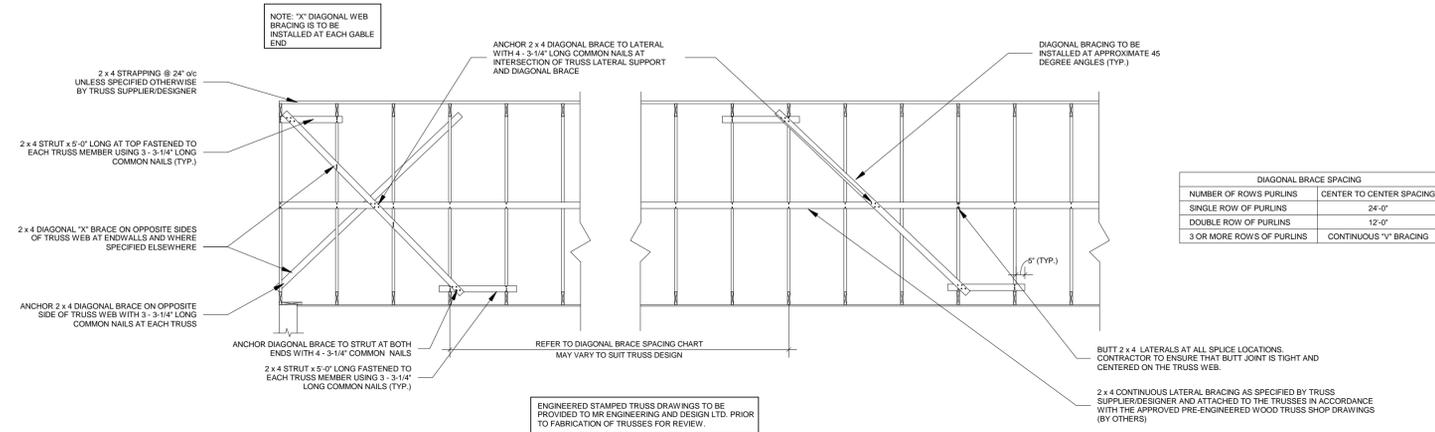
DASHWOOD COMMUNITY CENTRE
WASHROOM RENOVATION

MAIN FLOOR PLAN
PARTIAL DEMOLITION PLAN

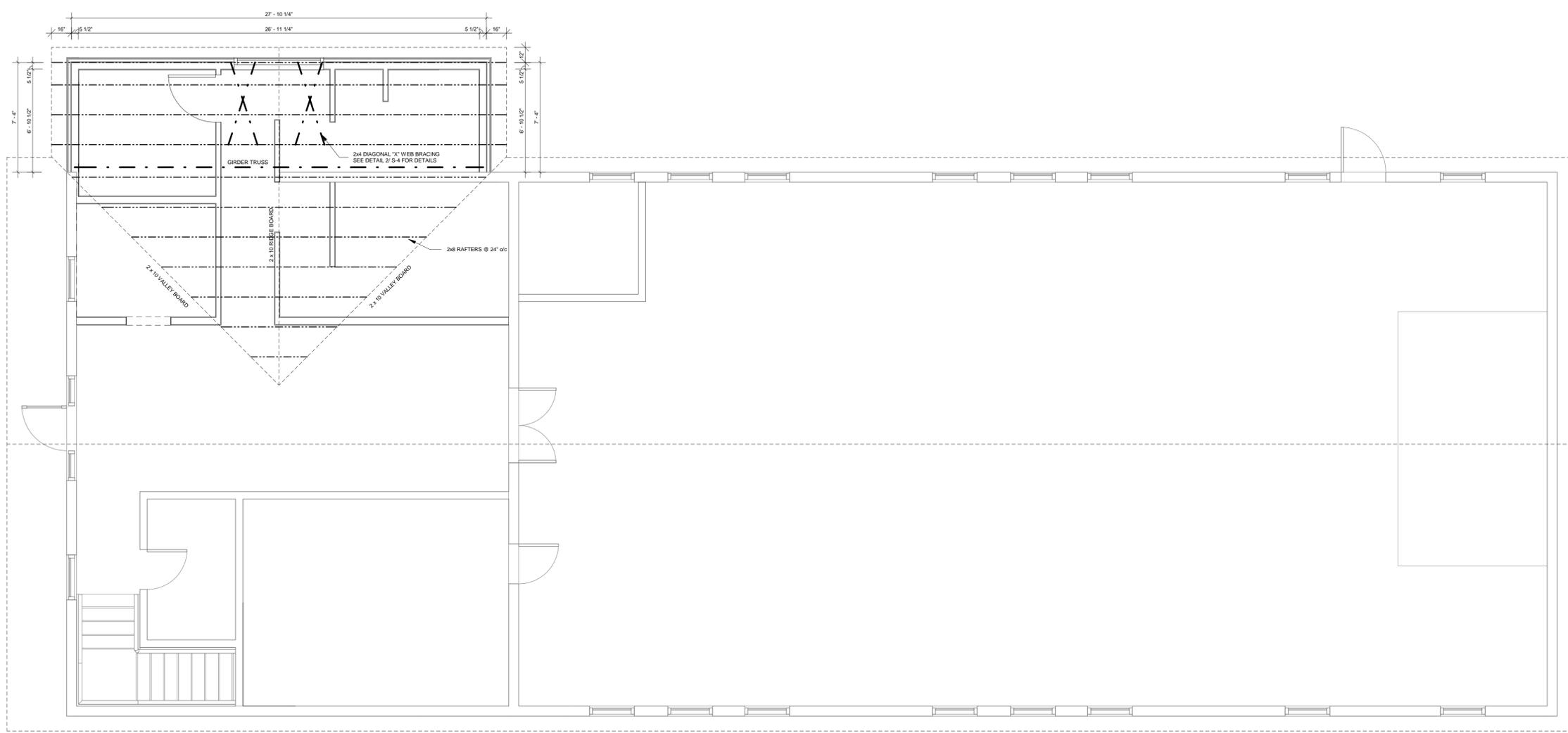
PROJECT No.
MR18-098

SHEET No.
S-2

- TRUSS BRACING NOTES:**
- TRUSSES TO BE DESIGNED FOR THE LOADS NOTED ON THE STRUCTURAL DRAWINGS.
 - THE TRUSS DESIGNER SHALL ACCOUNT FOR UNBALANCED LOADING CONDITIONS, VALLEY LOADS, SNOW SHADOWS, AND WIND UPLIFT IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE NATIONAL BUILDING CODE AS APPLICABLE.
 - BRACE SPACING AND LOADS ON DIAGONAL BRACING TO BE BASED ON A CUMULATIVE FORCE OF 20% OF THE WEB COMPRESSION. VERIFY LOADING WITH TRUSS SHOP DRAWINGS.
 - ALL PERMANENT CONTINUOUS LATERAL BRACING TO BE INSTALLED ON WEB MEMBERS AS INDICATED BY THE TRUSS SUPPLIER/DESIGNER. SIZE AND LOCATION OF LATERAL BRACES AND CONNECTED TO THE TRUSSES IN ACCORDANCE WITH THE APPROVED PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS (BY OTHERS).
 - DIAGONAL BRACING MUST BE PROVIDED ON ALL WEB MEMBERS THAT REQUIRE LATERAL BRACING. DIAGONAL BRACING SHALL BE SPACED AS NOTED IN DETAIL 2 ON THIS DRAWING AND X-BRACING SHALL BE PROVIDED AT ENDWALLS.
 - ADDITIONAL TRUSS BRACING MAY BE REQUIRED TO ACCOMMODATE THE TRUSS DESIGN AFTER SHOP DRAWINGS ARE REVIEWED.

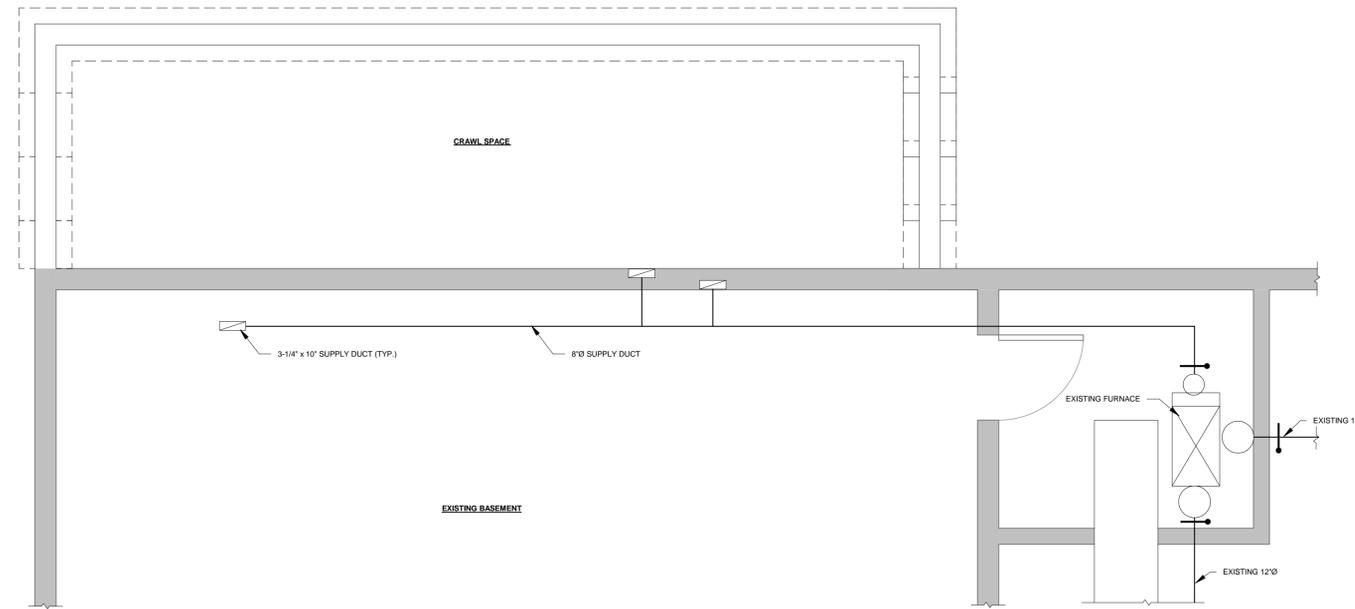


2 WEB BRACING DETAILS
1/4" = 1'-0"



1 ROOF FRAMING PLAN
1/4" = 1'-0"

<p>NORTH</p>	<p>DESIGN JM No. REVISION DESCRIPTION MM/DD/YY CHKD</p>	<p>ARCHITECT</p> <p>WASYLKO ARCHITECT INC.</p> <p>370 QUEENS AVE LONDON ON N6B 1A5 519.663.0888 FAX 663.5258</p>	<p>MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT</p> <p>JOHNSON ENGINEERING CONSULTANTS</p> <p>STRUCTURAL - CIVIL - MUNICIPAL</p> <p>1811 271-9923</p>	<p>STRUCTURAL CONSULTANT</p> <p>MR ENGINEERING AND DESIGN LTD.</p>	<p>150 CENTRE ST., DASHWOOD, ON NOM 1N0</p>	<p>SCALE</p> <p>1/4" = 1'-0"</p>	<p>DASHWOOD COMMUNITY CENTRE WASHROOM RENOVATION</p>	<p>PROJECT No.</p> <p>MR18-098</p>
	<p>DATE OCT. 2018</p> <p>1. PRELIMINARY - FOR REVIEW 08/22/18 MR</p> <p>2. ISSUED FOR APPROVAL 10/04/18 MR</p>						<p>PRELIMINARY NOT FOR CONSTRUCTION</p>	<p>PRELIMINARY NOT FOR CONSTRUCTION</p>



1 BASEMENT HVAC PLAN - BY JOHNSON ENGINEERING CONSULTANTS
3/8" = 1'-0"

- MECHANICAL DRAWING NOTES:**
1. ALL HVAC WORK AND NEW EQUIPMENT AND WORKS TO MEET OR EXCEED ASHRAE 90.1 FOR ENERGY EFFICIENCY.
 2. HVAC CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM LAYOUT, AND GENERAL CEILING INFORMATION.
 3. ALL RIGID SECTIONS OF DUCTWORK TO HAVE JOINTS SEALED, WRAPPED AND INSULATED. DUCT ISOLATION REQUIRED ON ALL SYSTEMS BETWEEN HVAC EQUIPMENT AND HORIZONTAL DUCT ASSEMBLIES.
 4. SUPPORT OF ALL MECHANICAL WORK TO BE FROM STRUCTURAL SUPPORTS AND NOT THE ROOF DECK. STRUCTURAL APPROVAL BY OTHERS.
 5. EXISTING FURNACE TO BE REVIEWED AN SERVICES AS REQUIRED.
 6. DOORS FOR WASHROOMS AND ROOMS WITH EXHAUST VENTS REQUIRE PROVISIONS FOR RETURN AIR. GRILLES IN DOORS RECOMMENDED. PROVIDE FIRE DAMPER IF FIRE RATED DOOR.
 7. DUCTS SHOWN AS ROUND SIZES MAY BE CONVERTED TO EQUIVALENT BOX SECTIONS.

MECHANICAL DESIGN INFORMATION

HEAT LOSS WAS DETERMINED WITH:

INDOOR WINTER TEMPERATURE OF 22°C (72°F)
 OUTDOOR WINTER TEMPERATURE OF -20°C (-4°F)
 WIND SPEED OF 29 KPH (18MPH) FROM NNW
 SUPPLY AIR TEMPERATURE OF 42°C (108°F)
 NO OTHER HEAD LOADS INCLUDED.
 3000 cfm O.A. OR 2.2 ACH INCLUDED FOR BANQUET AREAS.

HEAT GAIN CALCULATIONS DETERMINED WITH:

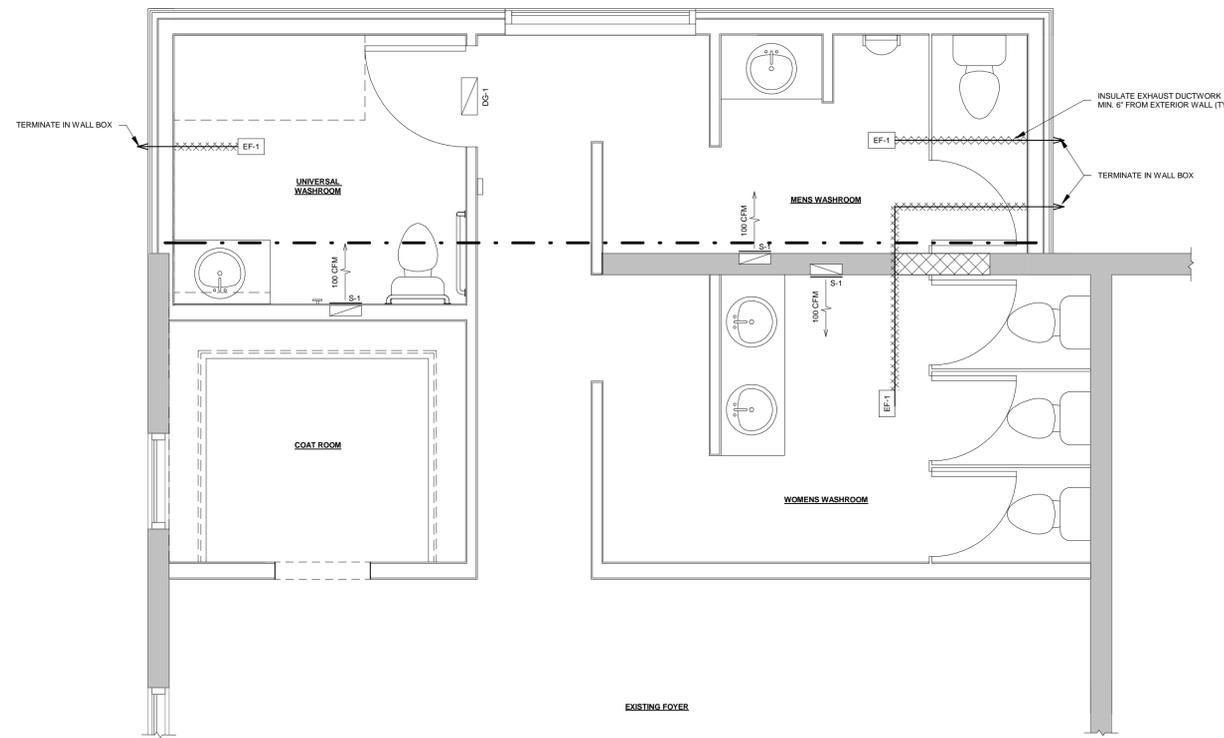
INDOOR SUMMER TEMPERATURE OF 22°C (72°F)
 OUTDOOR SUMMER TEMPERATURE OF 29°C (84°F)
 WIND SPEED OF 18KPH (11MPH) FROM SW
 SUPPLY AIR TEMPERATURE PF 16°C (62°F)

MECHANICAL EQUIPMENT SCHEDULE										
ITEM (SYM)	DESCRIPTION	TONS	CFM	EX. STATIC	COOLING BTU / HR	HEATING BTU / HR	HP	ELECTRIC	FRESH AIR	REMARKS
FRN	EXISTING FURNACE	-	1200	0.5	90,000	84,000	1/2	120V/1PH FLA. X.XA	N/A	EXISTING UNIT SERVING HALL AREA.
EF-1	BATHROOM FAN AIR-RING SF010	-	90	0.25	-	-	-	120V/1PH 20W	-	VENT TO EXTERIOR, INCLUDE WEATHER HOOD w/ BD DAMPER

- REMARKS:
1. GAS INPUT / OUTPUT RATINGS
 2. CONFIRM ELECTRICAL SUPPLY BEFORE ORDERING

GRILLE AND DIFFUSOR SCHEDULE					
ITEM (SYM)	DESCRIPTION	MAKE	DESCRIPTION, MANUFACTURER OR APPROVED EQUAL	FURN. BY	REMARKS
S-1	STEEL WALL GRILLE	EH PRICE	#520P 4' x 12' SUPPLY DIFFUSOR	CONTR.	-
DG-1	DOOR GRILLE	EH PRICE	STG1 TRANSFER GRILLE FOR DOOR - 14' x 16'	CONTR.	-

- REMARKS:
1. NECK SIZES AS NOTED ON DRAWING
 2. GRILLE SIZES AS NOTED ON DRAWING



2 GROUND FLOOR HVAC PLAN - BY JOHNSON ENGINEERING CONSULTANTS
3/8" = 1'-0"

NORTH



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MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT
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 STRUCTURAL - CIVIL - MUNICIPAL
 18191 271-9923

PRELIMINARY NOT FOR CONSTRUCTION

STRUCTURAL CONSULTANT

ENGINEERING AND DESIGN LTD.
 PRELIMINARY NOT FOR CONSTRUCTION

150 CENTRE ST.,
 DASHWOOD, ON
 NOM 1N0

SCALE

As indicated

DASHWOOD COMMUNITY CENTRE
 WASHROOM RENOVATION

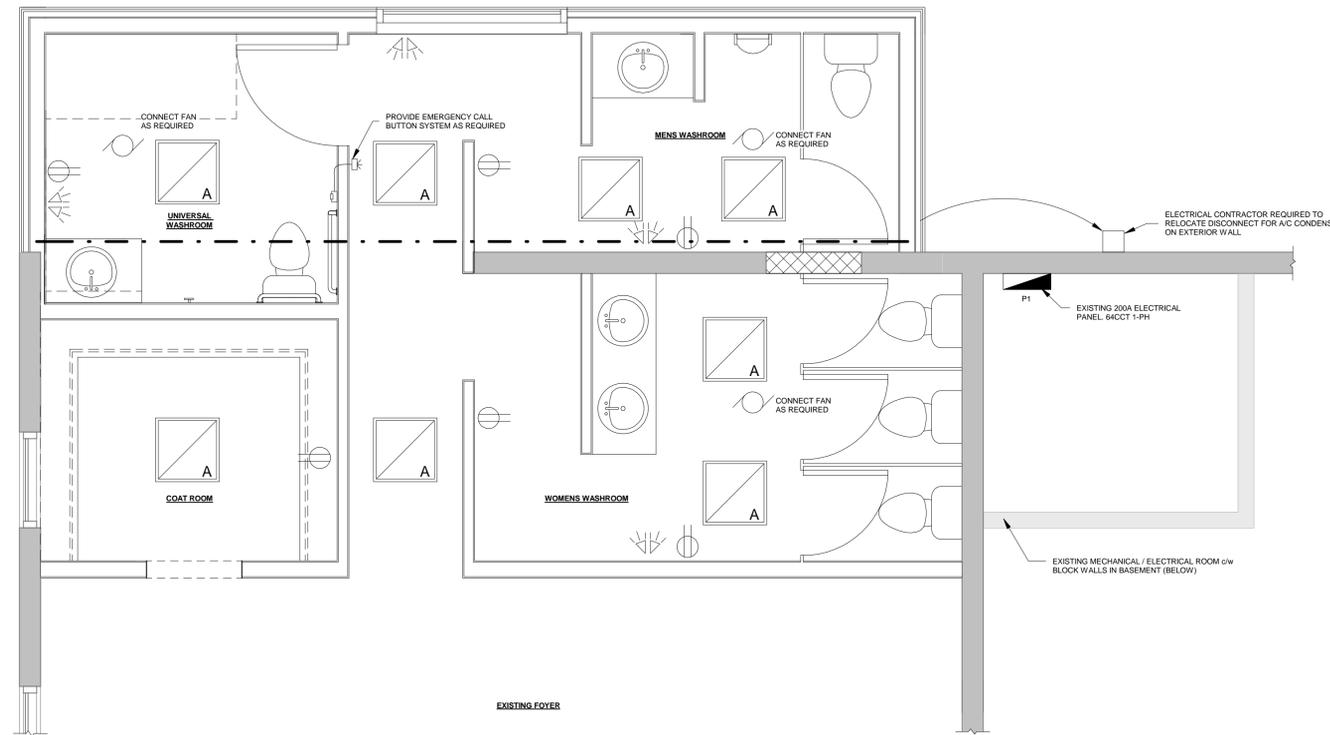
MECHANICAL DRAWINGS
 FOUNDATION & GROUND FLOOR PLAN

PROJECT No.

MR18-098

SHEET No.

S-7

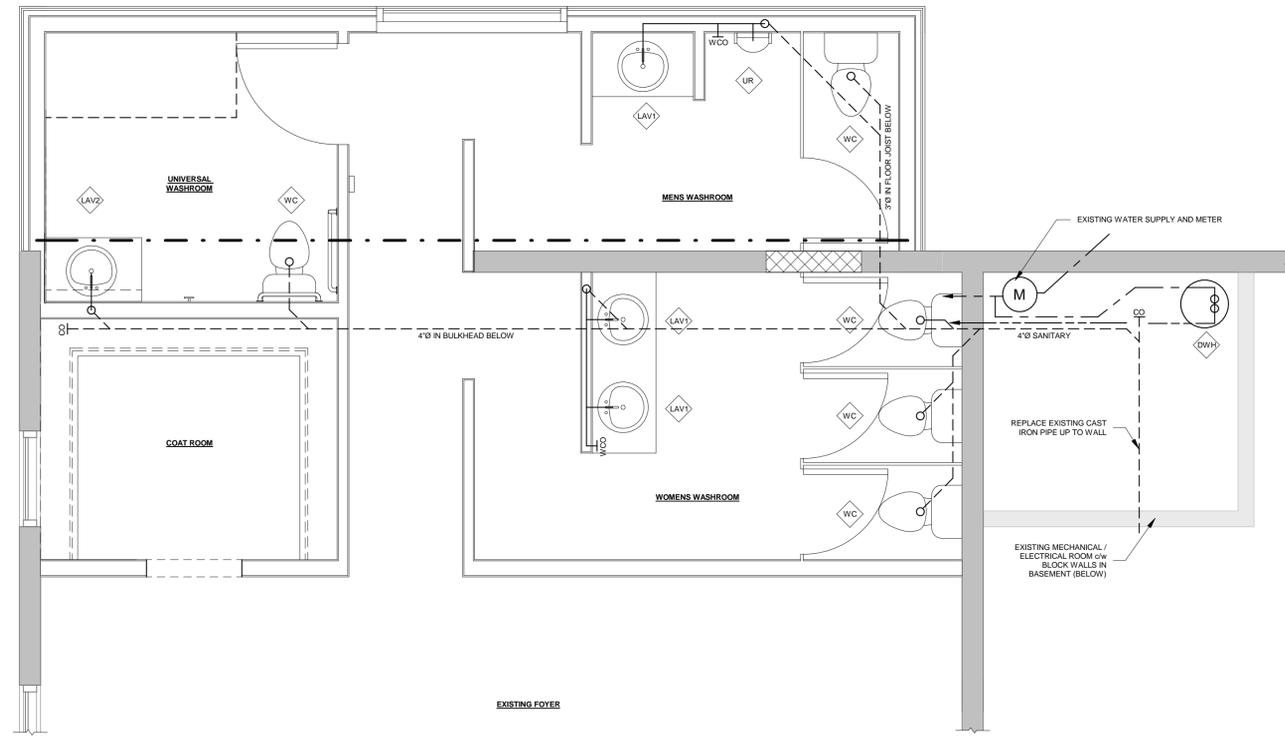


- ELECTRICAL DRAWING NOTES:**
1. ALL WIRING AND CONDUCTOR SIZING TO BE ACCORDING TO ELECTRICAL SAFETY CODE FOR ONTARIO
 2. ELECTRICAL CONTRACTOR TO CONFORM TO GENERAL SPECIFICATIONS, ARCHITECTURAL DRAWINGS, AND THE ONTARIO ELECTRICAL SAFETY CODE FOR EACH PANEL
 3. ELECTRICAL CONTRACTOR TO PROVIDE TYPE WRITTEN DIRECTORY CARDS FOR EACH PANEL
 4. ESA INSPECTION CERTIFICATES REQUIRED FOLLOWING COMPLETION OF ALL ELECTRICAL WORK
 5. WALL RECEPTACLES TO BE MOUNTED AT MINIMUM HEIGHT OF 400mm TO CENTRE & TO BE LABELED WITH PANEL & CCT # IN RED DYMO TAPE
 6. ALL BUILDING CONTROLS AND SWITCHES SHALL BE INSTALLED BETWEEN 900mm AND 1100mm FROM FLOOR FOR BARRIER FREE REQUIREMENTS. THERMOSTATS AND PULL STATIONS TO BE MOUNTED AT A MAXIMUM HEIGHT OF 1200mm TO CENTRE
 7. ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT ON SITE. VERIFY FUSE TYPES, SIZES AND LOCATIONS IN SUB PANELS
 8. LIGHTING CONTROL TO BE WITH OCCUPANCY SENSORS
 9. AUTOMATIC DOOR OPENING NOT REQUIRED IF DOOR IS NOT SELF CLOSING

ELECTRICAL SYMBOL LEGEND:

	EMERGENCY LIGHTING (DOUBLE HEAD) EM1 OR EM2
	DUPLEX RECEPTACLE
	2'-0" x 2'-0" LIGHT FIXTURE LED LIGHT FOR SUSPENDED CEILING
	MECHANICAL EQUIPMENT, TYPE AS NOTED ON MECHANICAL DRAWINGS. (BY OTHERS)
	ACTIVATION BUTTON
	ALARM SIREN & BEACON

① ENLARGED ELECTRICAL PLAN - BY JOHNSON ENGINEERING CONSULTANTS
3/8" = 1'-0"



- PLUMBING DRAWING NOTES:**
1. PLUMBING CONTRACTOR SHALL CONFORM TO GENERAL SPECIFICATION, PLUMBING CODES AND LOCAL CODES HAVING JURISDICTION
 2. PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO ENSURE THAT PUBLIC WASHROOMS MEET HANDICAP REQUIREMENTS AS REQUIRED BY BUILDING CODES
 3. ALL DRAINAGE PIPES TO BE 2% SLOPE (1/4" PER FOOT) MINIMUM
 4. CONTRACTOR TO BLOCK AND SECURE ALL WATER LINES THROUGH CEILING SPACE TO AVOID NOISY PIPES
 5. EXISTING SANITARY SEWER IS CAST IRON AND SHOULD BE REPLACED UP TO POINT WHERE PIPE EXITS THROUGH BLOCK WALL
 6. WATER LINES TO BE UP SIZED TO 3/4" AFTER METER THROUGHOUT
 7. ALL SANITARY DRAINS TO BE RUN BETWEEN FLOOR JOISTS WHEREVER POSSIBLE AND WITHIN INSULATION OF CRAWLSPACE E. MAIN INTERIOR RUN TO BE ENCLOSED WITHIN BULKHEAD AS REQUIRED
 8. ALL FIXTURES REQUIRE APPROPRIATE SHUT-OFF VALVES AS PER OBC. USE DAHL 13-2277
 9. WATER SYSTEM NOT DRAWN IN ITS ENTIRETY. SUPPLY EACH FLOOR AND FIXTURE WITH WATER AS REQUIRED AS PER EQUIPMENT SCHEDULE

PLUMBING EQUIPMENT SCHEDULE

ITEM (SYM)	DESCRIPTION	NO. REQ.	DESCRIPTION, MANUFACTURER, OR APPROVED EQUAL	CONNECTIONS (x)	FURN. BY	REMARKS
				SUPPLY DRAIN VENT		
DHW	WATER HEATER	1	EXISTING ELECTRIC HEATER	3/4"	EXIST.	1
LAV1	LAVATORY	3	AMERICAN STANDARD DROP-IN OVAL SINK, WHITE, RESIDENTIAL FAUCET AS PER OWNER	1/2" 1-1/2"	CONTR.	
LAV2	LAVATORY	1	AMERICAN STANDARD 064 WALL MOUNT, WHITE, B.F. FAUCET TO BE MANUAL BF DELTA 220495, 337590 DRAIN	1/2" 1-1/2"	CONTR.	
WC	WATER CLOSET	5	AMERICAN STANDARD CADET ELONGATED, RIGHT HEIGHT, WHITE, BF STANDARD TANK MANUAL FLUSH	12" 3"	AS NOTED	
UR	URINAL	1	2-5755 TOP SPUD URINAL c/w MANUAL FLUSH VALVE, INCLUDE WALL BRACKET	3/4" IPS 2"	CONTR.	

- REMARKS:
1. PROVIDE SHUT-OFF VALVES ON BOTH HOT AND COLD. PROVIDE TEMPERING VALVE AND HEAT TRAP ON PIPING

PLUMBING SYMBOL LEGEND:

	CLEAN OUT
	WALL CLEAN OUT
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	PROPOSED SEWER LINE
	COLD WATER LINE
	HOT WATER LINE

② ENLARGED PLUMBING PLAN - BY JOHNSON ENGINEERING CONSULTANTS
3/8" = 1'-0"

<p>NORTH</p>	<table border="1"> <tr> <th>DESIGN</th> <th>JM</th> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>MM/DD/YY</th> <th>CHK'D</th> </tr> <tr> <td>DRAWN</td> <td>JM</td> <td>1.</td> <td>PRELIMINARY - FOR REVIEW</td> <td>08/22/18</td> <td>MR</td> </tr> <tr> <td>DATE</td> <td>OCT. 2018</td> <td>2.</td> <td>ISSUED FOR APPROVAL</td> <td>10/04/18</td> <td>MR</td> </tr> </table>	DESIGN	JM	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D	DRAWN	JM	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR	DATE	OCT. 2018	2.	ISSUED FOR APPROVAL	10/04/18	MR	<p>ARCHITECT</p> <p>WASYLKO ARCHITECT INC.</p> <p>370 QUEENS AVE LONDON ON N6B 1A5 519.663.0888 FAX 663.5258</p>	<p>MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT</p> <p>JOHNSON ENGINEERING CONSULTANTS</p> <p>STRUCTURAL - CIVIL - MUNICIPAL 18191 271-9923</p>	<p>STRUCTURAL CONSULTANT</p> <p>ENGINEERING AND DESIGN LTD.</p>	<p>150 CENTRE ST., DASHWOOD, ON N0M 1N0</p>	<p>SCALE</p> <p>As indicated</p>	<p>DASHWOOD COMMUNITY CENTRE WASHROOM RENOVATION</p> <p>PLUMBING & ELECTRICAL DRAWINGS</p>	<p>PROJECT No. MR18-098</p> <p>SHEET No. S-8</p>
	DESIGN	JM	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D																				
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GENERAL NOTES:

- ALL DIMENSIONS ARE IN IMPERIAL UNITS UNLESS NOTED OTHERWISE.
- THESE PLANS AND SPECIFICATIONS WERE PREPARED FOR THE PURPOSES OF STRUCTURAL DESIGN ONLY.
- THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH OTHER DRAWINGS. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
- DO NOT SCALE DRAWINGS.
- FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
- STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL AND ONTARIO BUILDING CODE, NATIONAL FARM BUILDING CODE OF CANADA 1995 AND, FARM BUILDING STANDARDS - PUBLICATION 809.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE INSPECTION OF STRUCTURAL REINFORCING AND STRUCTURAL STEEL FOR ALIGNMENT, BOLTS AND WELDED CONNECTIONS AND FOR THE PROMPT SUBMISSION OF ALL REPORTS TO THE PROJECT ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE PROVISIONS FOR TEMPORARY BRACING DURING CONSTRUCTION TO RESIST THE APPLIED LOADS THAT ARE INDICATED IN THESE DRAWINGS AND SUBSEQUENT DRAWINGS BY OTHERS.

EXCAVATION & BACKFILL

- REMOVE ALL TOPSOIL AND DELETERIOUS MATERIAL FROM BELOW THE EXTENTS OF THE EXCAVATION.
- SLOPE GRADE TO DRAIN AWAY FROM BUILDINGS.
- FOUND FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
- FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL, CAPABLE OF SAFELY SUSTAINING 150 kPa (3100 psf) AT SERVICEABILITY LIMIT STATES (SLS) AND 225 kPa (5000 psf) AT ULTIMATE LIMIT STATES (ULS) CORRESPONDING TO DENSE OR COMPACT SAND OR GRAVEL (TABLE 9.4.4.1, O.B.C.).
- GRANULAR FILL UNDER FOOTINGS SHALL BE FREE-DRAINING CLEAN GRANULAR "B" (OR BETTER) MATERIAL COMPACTED TO A MINIMUM 100% SPMO. NO FILL SHALL BE PLACED UNDER FOOTINGS UNLESS MONITORED, INSPECTED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- BACKFILL AND COMPACT FOUNDATION WALLS BELOW GRADE WITH MAXIMUM 2'-0" DIFFERENTIAL IN ELEVATION FROM ONE SIDE TO THE OTHER.
- DO NOT BACKFILL FOUNDATION WALLS RETAINING EARTH ON ONE SIDE ONLY UNTIL THE FLOOR CONSTRUCTIONS AT BOTH THE TOP AND BOTTOM HAVE BEEN CAST AND HAVE ATTAINED 100% OF THEIR DESIGN STRENGTH.
- NO FOOTINGS SHALL BE POURED UNTIL THE BUILDING DEPARTMENT HAS APPROVED THE FOUNDATION CONDITIONS.
- ALL STANDING WATER SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO POURING CONCRETE.
- ENGINEER TO BE NOTIFIED IF EXCESSIVE UNDERGROUND WATER IS ENCOUNTERED.

CONCRETE:

- CONCRETE SHALL CONFORM TO CSA A23.1,2,3 FOR QUALITY CONTROL AND REBAR PLACEMENT.
- REINFORCING STEEL:
 - CONFORM TO CAN/CSA-G30.18-M92 CSA-C30.3M-1983
 - WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 448 \text{ MPa (65,000psi)}$
 - REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 400 \text{ MPa (58,000psi)}$
- ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES SO THAT THERE IS NO MOVEMENT DURING CONCRETE PLACEMENT.
- REINFORCING IS TO BE GENERALLY PLACED IN ACCORDANCE WITH REINFORCING STEEL INSTITUTE OF CANADA 'MANUAL OF STANDARD PRACTICE'. ALL SPLICES SHALL BE CLASS 'B' IN ACCORDANCE WITH THE FOLLOWING TABLE:

REBAR SIZE	CONCRETE			
	SPLICE LENGTH: mm (")			
	25MPa	30MPa	32MPa	35MPa
10M	400 (16")	400 (16")	400 (16")	400 (16")
15M	600 (24")	600 (24")	500 (20")	500 (20")
20M	800 (32")	700 (28")	700 (28")	700 (28")
25M	1200 (48")	1100 (44")	1100 (44")	1100 (44")

- THE ABOVE TABLE ALSO APPLIES TO ALL DOWELS UNLESS NOTED OTHERWISE.
- ALL HORIZONTAL BARS SHALL BE HOOKED 600mm (24") AROUND CORNERS/WALL INTERSECTIONS UNLESS NOTED OTHERWISE.
- PROVIDE 1-15M PER REINFORCEMENT LAYER OR CONCRETE LAYER AROUND ALL WINDOW, DOOR, MECHANICAL OR SIMILAR OPENINGS EXTENDING 24" (610mm) BEYOND EACH CORNER OF THE OPENING.
- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1,F-2,S-1,S-2	C-XL-C-1,C-3,A-1,A-2,A-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	---	75mm 3"	75mm 3"
BEAMS, GIRDERS, COLUMNS, AND PILES	30mm 1-1/4"	40mm 1-1/2"	50mm 2"
SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES	20mm 3/4"	40mm 1-1/2"	60mm 2-3/8"
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

- UNLESS OTHERWISE SPECIFIED BY THE OWNER, REINFORCEMENT SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES:
 - CONCRETE COVER: +/- 12mm (1/2") BUT NO LESS THAN 1/3 OF THE SPECIFIED MINIMUM COVER
 - WHERE THE DEPTH OF THE FLEXURAL MEMBER, THICKNESS OF A WALL OR THE SMALLEST DIMENSION OF A COLUMN IS:
 - 200mm (8") OR LESS: +/- 8mm (1/4")
 - LARGER THAN 200mm (8") BUT LESS THAN 600mm (24"): 12mm (1/2")
 - 600mm OR LARGER: +/- 20mm (3/4")
 - LATERAL SPACING OF BARS: +/- 30mm (1 1/4")
 - LONGITUDINAL LOCATION OF BENDS AND ENDS OF BARS: +/- 50mm (2")
 - LONGITUDINAL LOCATION OF BENDS AND ENDS AT DISCONTINUOUS ENDS OF MEMBERS: +/- 20mm (3/4")
- ALL REINFORCING STEEL IN PLACE TO BE MADE AVAILABLE FOR INSPECTION BY ENGINEER BEFORE POURING THE CONCRETE. ENGINEER TO BE NOTIFIED WELL IN ADVANCE OF POURING SCHEDULE. ENGINEER TO CARRY OUT INSPECTION AT HIS DISCRETION.
- ALL GRIT, MUD AND DEBRIS SHALL BE REMOVED FROM THE REINFORCING STEEL PRIOR TO THE PLACEMENT OF CONCRETE.
- PROVIDE PORTLAND CEMENT OF CANADIAN MANUFACTURE CONFORMING WITH CSA/CAN 3-A5, TYPE 10.
- CONTROL JOINTS IN SLABS ON GRADE SHALL BE 1/4 THE THICKNESS OF THE SLAB. SPACING OF THE CONTROL JOINTS IN SLABS ON GRADE SHALL NOT EXCEED THE GREATER OF 30 TIMES THE THICKNESS OF THE SLAB OR 18'-0".
- PROVIDE CLEAN, UNCOATED SAND AND COARSE AGGREGATES FROM APPROVED SOURCES WHICH CONFORM WITH CSA/CAN 3-A3M. REFER TO THE CONCRETE SPECIFICATIONS PROVIDED BELOW FOR AGGREGATE SIZE.
- PROVIDE PLASTICIZER OF WATER REDUCING ADD MIXTURE WHERE INCREASED WORKABILITY IS REQUIRED. **DO NOT ADD WATER ON-SITE.**
- USE HIGH-FREQUENCY VIBRATION TO PLACE ALL CONCRETE.
- ALL CONCRETE SHALL HAVE A 3" SLUMP +/- 1".
- TAKE ADEQUATE MEASURES TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST SEVEN DAYS AFTER CONCRETE PLACEMENT.
- ALL CONCRETE SHALL BE TESTED BY A CSA CERTIFIED CONCRETE TESTING LABORATORY.
 - CURING TYPE 1 - 3 DAYS @ 10°C TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
 - CURING TYPE 2 - 7 DAYS @ 10°C TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
 - CURING TYPE 3 - A WET CURING PERIOD OF 7 DAYS.

DESCRIPTION	CLASS OF CONCRETE	STRENGTH @ 28 DAYS	W/CM RATIO	AIR ENTRAINMENT	CURING TYPE	AGGREGATE
FOOTINGS	N	20MPa	N/A	N/A	1	14-20mm
FOUNDATION WALLS	F-2	25MPa	0.55	4-7%	1	14-20mm
EXTERIOR SLABS	C-2	32MPa	0.45	5-8%	2	14-20mm
INTERIOR SLABS	N	25MPa	0.55	---	1	14-20mm

LUMBER:

- LUMBER SHALL BE No. 2 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
- ALL LAMINATED VENEER LUMBER (LVL) SHALL BE 2 OE Fx 3,100 R BETTER UNLESS NOTED OTHERWISE.
- ALL POSTS SHALL BE No. 1 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH CONCRETE OR SOLE/EARTH SHALL BE PRESSURE TREATED.
- ALL PLYWOOD SHALL CONFORM TO CSA STANDARD 0121 OR 0151.
- ALL OSB SHALL CONFORM TO CSA 0325 CONSTRUCTION SHEATHING OR CSA 0437.0 WAFERBOARD WITH MINIMUM PANEL MARK FOR 0325 OSB 1500X76.
- ALL NAILS/FASTENERS USED WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED OR ACO QUALIFIED.
- ALL MANUFACTURED CONNECTORS/HARDWARE TO BE GALVANIZED.
- ALL NAILING SHALL BE AS PER NBC/OBC UNLESS NOTED OTHERWISE. NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD B111 'WIRE NAILS, SPIRES AND STAPLES'.
- ALL BOLTS USED FOR WOOD CONNECTIONS SHALL BE A307 (min.), WHERE BOLTS ARE EXPOSED TO CORROSIVE ENVIRONMENTS, A307 (min.) HOT DIPPED GALVANIZED BOLTS, NUTS, WASHERS SHALL BE USED.
- STUD WALLS SHALL BE ANCHORED TO THE FOUNDATION 1/2" ANCHOR BOLTS SPACED AS INDICATED ON THE DRAWINGS.

TRUSSES:

- THE ROOF TRUSSES ARE TO BE DESIGNED FOR THE SPECIFIED LOADS. THE SUPPLIER IS TO PROVIDE ERECTION AND MEMBER FABRICATION DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. THE DRAWINGS MUST INDICATE DESIGN LOADS, MEMBER SPECIES, GRADES, BRACING AND CONNECTIONS. ALL TRUSSES MUST BE ANCHORED WITH APPROPRIATE TIE-DOWN METAL ANCHORS TO RESIST UPLIFT AS CALCULATED AND SHOWN IN THE TRUSS DESIGN CALCULATIONS AND TRUSS DRAWINGS.
- THE BEARING SHOWN ON THE DRAWINGS IS THE MAXIMUM WIDTH TO BE PROVIDED AND THE TRUSS MANUFACTURER MUST DESIGN THE TRUSSES TO SUIT THE BEARING WIDTH.
- ALL PERMANENT BRACING FOR TRUSSES SHALL BE SECURELY ANCHORED BY BACK BRACING DIAGONALLY OR ATTACHING TO END WALLS ACCORDING TO GUIDELINES PUBLISHED BY THE CANADIAN WOOD TRUSS ASSOCIATION.
- UNBALANCED LOADING CONDITIONS SHALL BE INCLUDED IN THE TRUSS DESIGN.
- TRUSS DESIGNER TO ACCOUNT FOR INCREASE SNOW LOADS DUE TO ROOF VALLEYS AND SNOW SHADOWS/DRIFTING.
- TRUSS SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER TO REVIEW PRIOR TO FABRICATION. DESIGN LOADS AND ASSUMPTIONS SHALL BE NOTED ON THE SHOP DRAWINGS.

SITE REVIEW:

- THE CONTRACTOR/OWNER SHALL CONTACT THE LOCAL MUNICIPAL BUILDING DEPARTMENT TO PERFORM SITE REVIEWS OF CONSTRUCTION IN ACCORDANCE WITH OBC DIVISION C-SECTION 1.5.5.
- IN ACCORDANCE WITH OBC DIVISION C SECTION 1.2.2.1, THE CONTRACTOR/OWNER SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO PERFORM A GENERAL REVIEW TO ENSURE THAT THE CONSTRUCTION IS IN GENERAL CONFORMITY WITH THE PLANS.
- THE FOLLOWING INSPECTIONS SHALL BE REQUIRED:
 - FOOTINGS - WHEN THE CONCRETE FORMWORK AND REINFORCING STEEL HAVE BEEN SET AND ARE READY FOR THE PLACEMENT OF CONCRETE
 - FOUNDATION WALLS - WHEN THE CONCRETE FORMWORK AND REINFORCING STEEL HAVE BEEN SET AND ARE READY FOR THE PLACEMENT OF CONCRETE.
 - FRAMING INSPECTION - WHEN THE BUILDING HAS BEEN COMPLETELY FRAMED, PRIOR TO INSTALLING INTERIOR OR EXTERIOR SHEATHING THAT WOULD PREVENT A VISUAL INSPECTION OF KEY FRAMING COMPONENTS
 - TRUSS INSPECTION - WHEN THE TRUSSES AND ASSOCIATED BRACING HAVE BEEN COMPLETED, PRIOR TO INSTALLING CEILING FINISHES
 - FINAL REVIEW - WHEN THE STRUCTURAL COMPONENTS OF THE FACILITY HAVE BEEN COMPLETED
- THE CONTRACTOR/OWNER TO NOTIFY THE ENGINEER @ 519-317-0128. ADEQUATE NOTICE IS ANTICIPATED AND EXPECTED.

DESIGN INFORMATION:

BUILDING IMPORTANCE:	NORMAL
Is	1.0
Iw	1.0
Ie	1.0

SB-1 LOCATION (EXETER, ON)
BUILDING LOCATION (158 CENTRE ST., DASHWOOD, ON)

ROOF

SNOW (Ss)	2.4 kPa (50.1 psf)
RAIN (Sr)	0.4 kPa (8.4 psf)
Cb	0.8
Cw	1.0
Ca	1.0
Cs	1.0
SPECIFIED BALANCED SNOW LOAD (S) = (Ss x Cb x Cw x Ca x Cs) + Sr	2.32 kPa (48.5 psf)

WIND PRESSURE

q 1/50 YEAR	0.49 kPa (10.2 psf)
q 1/10 YEAR	0.38 kPa (7.9 psf)
WIND DESIGN CATEGORY	CATEGORY 3
TERRAIN	OPEN

SEISMIC DATA

Sa (0.2)	0.130
Sa (0.5)	0.080
Sa (1.0)	0.051
Sa (2.0)	0.016
PGA	0.040
SITE CLASSIFICATION (ASSUMED)	D

NOTE:

- ALL DESIGN LOADS ARE UNFACTORED**
- ALL LOADS AND LOAD COMBINATIONS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF PART 4 OF THE ONTARIO BUILDING CODE.

NORTH

DESIGN	MR	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D
DRAWN	MR	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR
DATE	OCT. 2018	2.	ISSUED FOR APPROVAL	10/04/18	MR

ARCHITECT

WASYLKO ARCHITECT INC.

370 QUEENS AVE
LONDON ON
N6B 1G5
519.663.0888
FAX 663.5258

PRELIMINARY
NOT FOR CONSTRUCTION

MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT

JOHNSON ENGINEERING CONSULTANTS

STRUCTURAL - CIVIL - MUNICIPAL

1819 271-9923

PRELIMINARY
NOT FOR CONSTRUCTION

STRUCTURAL CONSULTANT

MR ENGINEERING AND DESIGN LTD.

PRELIMINARY
NOT FOR CONSTRUCTION

150 CENTRE ST.,
DASHWOOD, ON
NOM 1N0

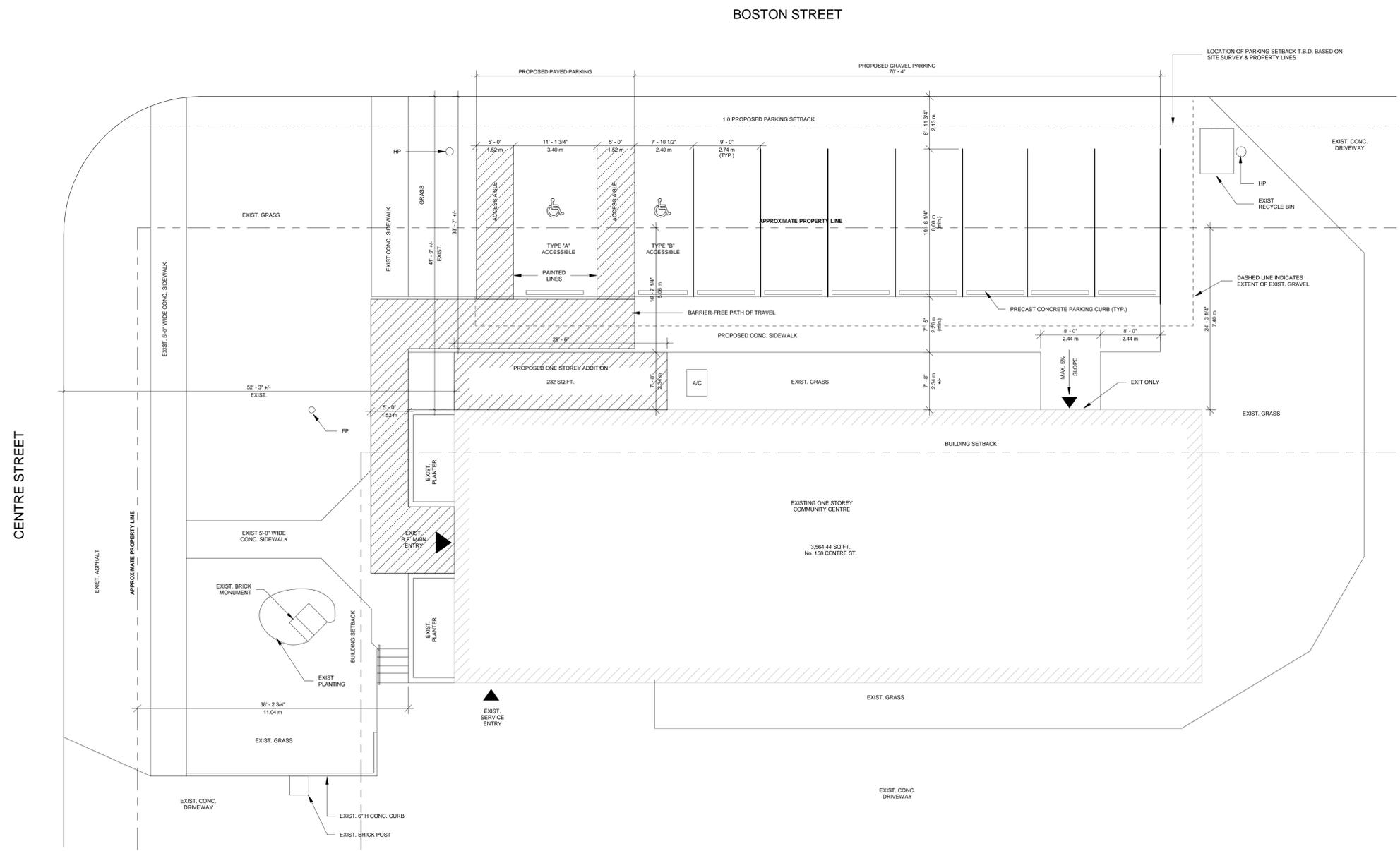
SCALE

DASHWOOD COMMUNITY CENTRE
WASHROOM RENOVATION

PROJECT No.
MR18-098

GENERAL NOTES

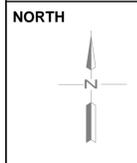
SHEET No.
S-9



NOTE:
SITE UPGRADES NOT INCLUDED IN THE
CONTRACT PRICE AND WILL BE COMPLETED ON
A TIME AND MATERIAL BASIS

SITE SYMBOL LEGEND:	
○ FP	FLAG POLE
○ HP	HYDRO POLE
A/C	PROPOSED RE-LOCATION OF A/C UNIT

① EXETER SPLASH PAD
1/8" = 1'-0"



DESIGN	JM	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D
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MR ENGINEERING AND DESIGN LTD.

150 CENTRE ST.,
DASHWOOD, ON
N0M 1N0

SCALE
As indicated

DASHWOOD COMMUNITY CENTRE
WASHROOM RENOVATION

SITE LOCATION PLAN

PROJECT No.
MR18-098

SHEET No.
SLP