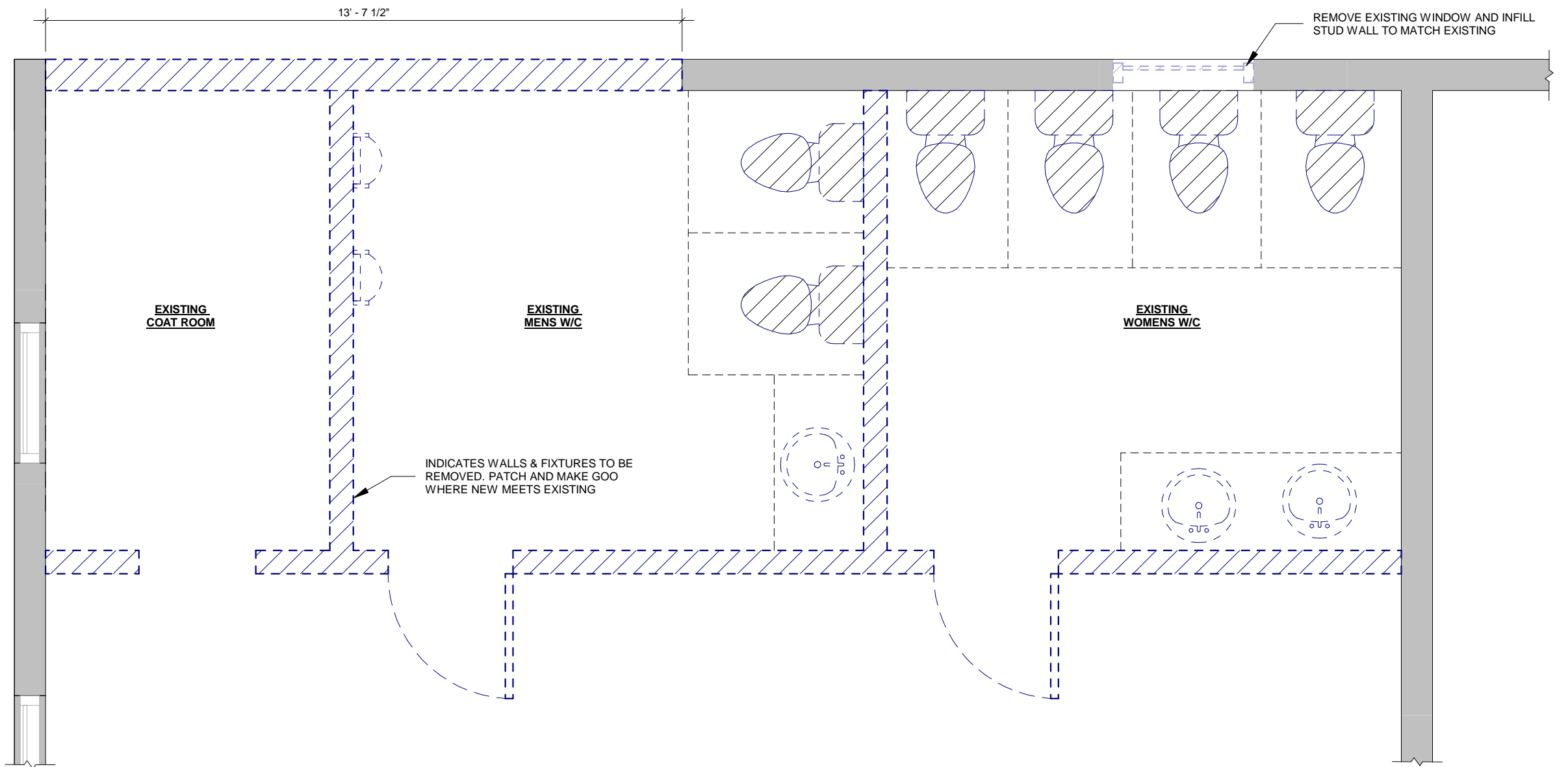
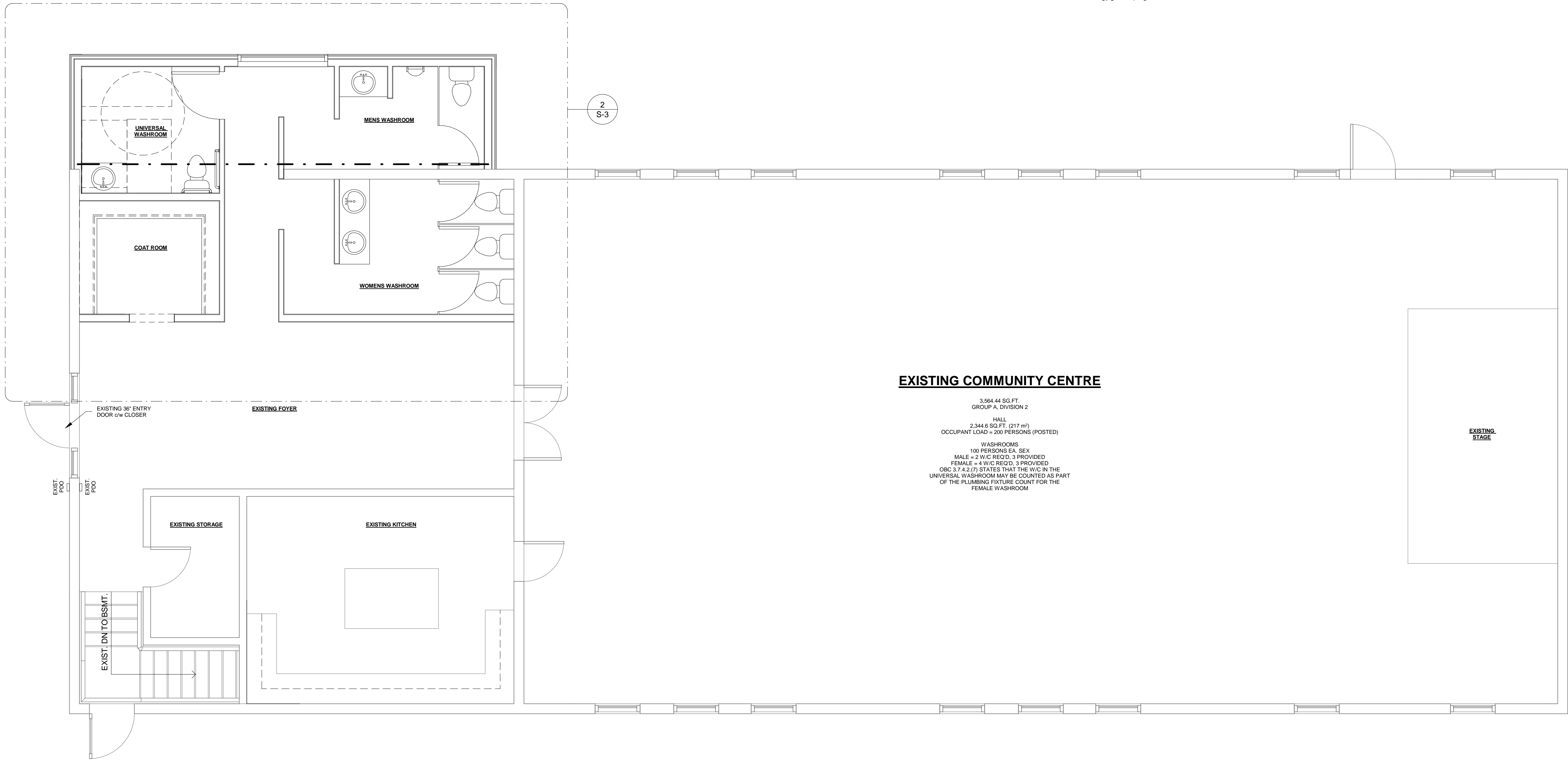




- CONSTRUCTION NOTES
1. ALL CONSTRUCTION TO MEET OR EXCEED THE 2012 OBC REQUIREMENTS.
  2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SITE DIMENSIONS AND ACCOMMODATE ANY VARIATIONS FROM WHAT IS DRAWN.
  3. WINDOW AND DOOR SIZES GIVEN ON THE PLAN ARE BASED ON NOMINAL SIZES. ALL SIZES TO BE VERIFIED 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 - 1-1/2" x 3-1/2").
  5. BLOCK ALL BEAMS AND GIRDER TRUSSES DOWN TO THE FOUNDATION.



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



**EXISTING COMMUNITY CENTRE**

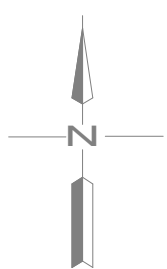
3,564.44 SQ. FT.  
GROUP A, DIVISION 2

HALL  
2,344.8 SQ. FT. (217 m<sup>2</sup>)  
OCCUPANT LOAD = 200 PERSONS (POSTED)

WASHROOMS  
100 PERSONS EA. SEX  
MALE = 2 W/C REQ'D, 3 PROVIDED  
FEMALE = 4 W/C REQ'D, 3 PROVIDED  
OBC 3.1.4.2 (7) STATES THAT THE W/C IN THE  
UNIVERSAL WASHROOM MAY BE COUNTED AS PART  
OF THE PLUMBING FIXTURE COUNT FOR THE  
FEMALE WASHROOM

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

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

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ARCHITECT

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NOT FOR CONSTRUCTION

MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT

**JOHNSON  
ENGINEERING  
CONSULTANTS**

STRUCTURAL - CIVIL - MUNICIPAL  
18191 271-9923

PRELIMINARY  
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STRUCTURAL CONSULTANT



PRELIMINARY  
NOT FOR CONSTRUCTION

150 CENTRE ST.,  
DASHWOOD, ON  
N0M 1N0

SCALE

As indicated

DASHWOOD COMMUNITY CENTRE  
WASHROOM RENOVATION

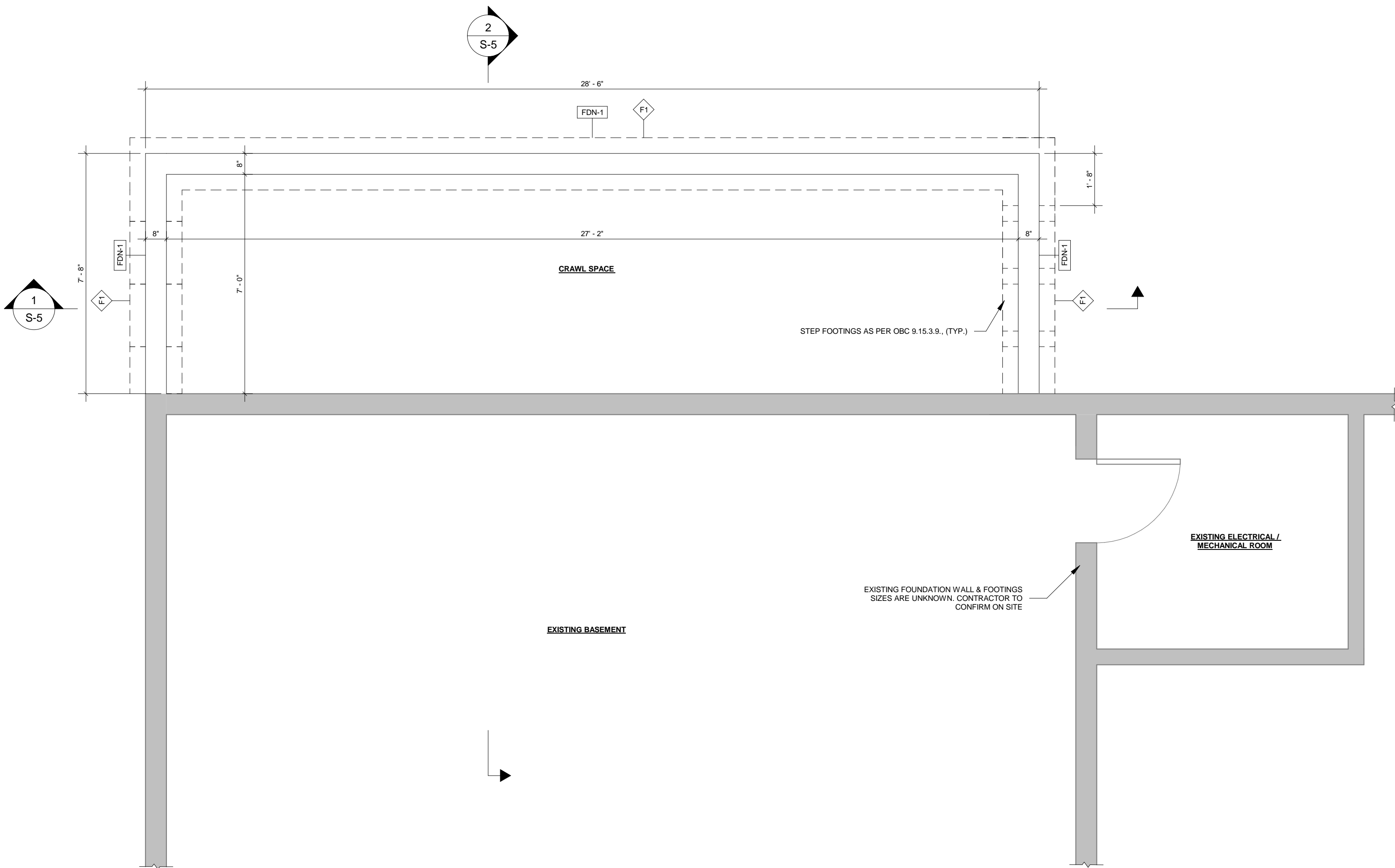
MAIN FLOOR PLAN  
PARTIAL DEMOLITION PLAN

PROJECT No.

MR18-098

SHEET No.

S-2

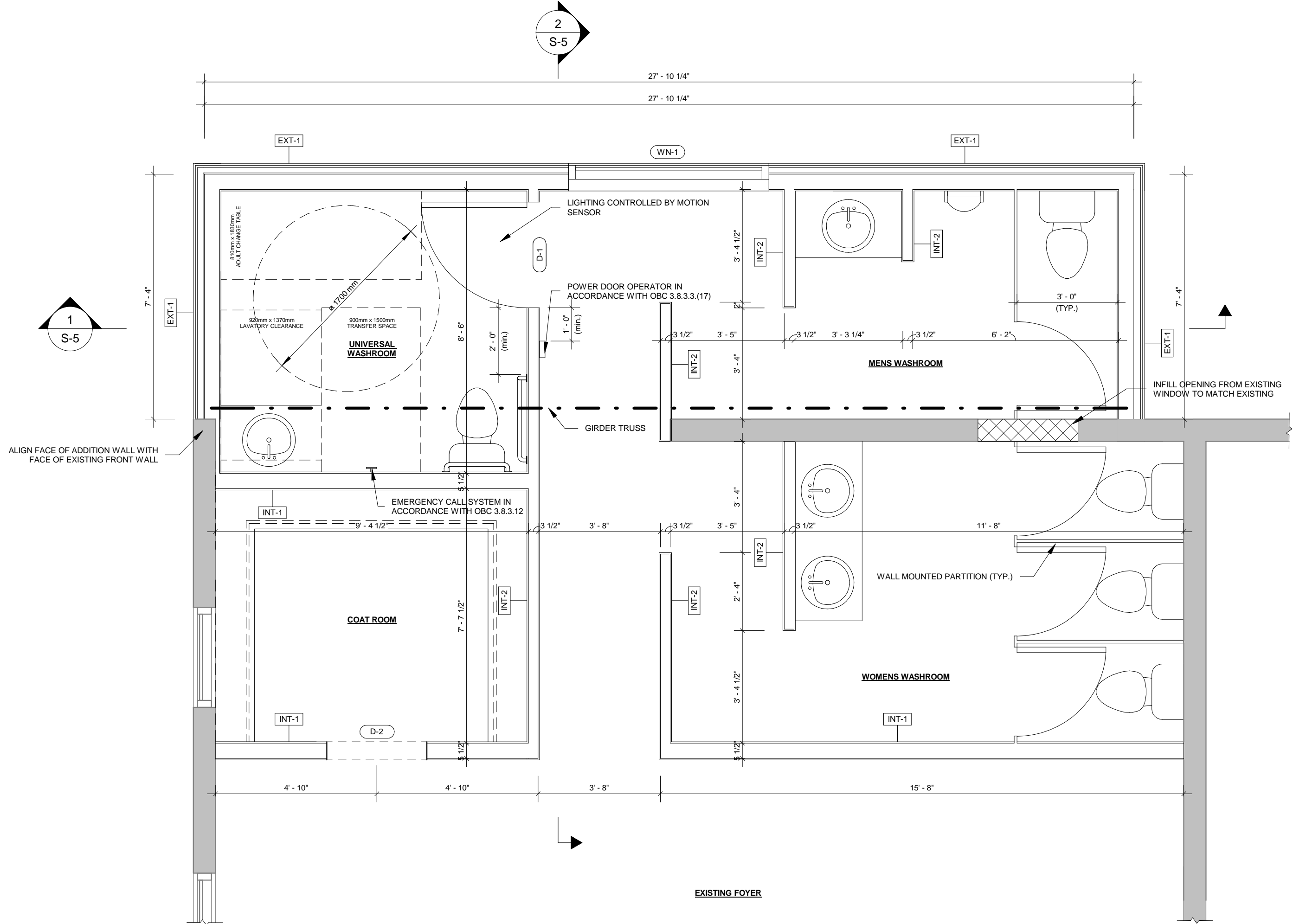


① FOUNDATION PLAN  
3/8" = 1'-0"

FOUNDATION WALL SCHEDULE					
TAG	CROSS-SECTION	DESCRIPTION	WALL ASSEMBLY	WALL HEIGHT	MIN. 28 DAY STRENGTH
FDN-1		8" CONCRETE WALL	8" POURED IN PLACE CONCRETE PROVIDE 2-10M CONTINUOUS AT TOP OF WALL ANCHOR BOLTS: 1/2"x3" ANCHOR BOLT SPACING 1'-48" o/c 1/2"x8" ANCHOR BOLTS TO HAVE 6" (min.) EMBEDMENT AND 2" HOOK	3'-10"	F-2: 25MPa

FOOTING SCHEDULE		
TAG	CROSS-SECTION	DESCRIPTION
F1		20" WIDE x 8" THICK CONCRETE STRIP FOOTING REINFORCED WITH 2-10M CONTINUOUS. PROVIDE 30"x6" H 19M DOWELS @ 24" o/c

WALL SCHEDULE					
TAG	CROSS-SECTION	DESCRIPTION	WALL ASSEMBLY	WALL HEIGHT	MIN. 28 DAY STRENGTH
EXT-1		2x6 FRAMED WALL	EXTERIOR PRE-FINISHED METAL CLADDING TO MATCH EXISTING 1/4" STRAPPING @ 24" o/c 2" (R-5) RIGID FOAM INSULATION TYVEK BUILDING WRAP (TAPE ALL JOINTS) 7/16" OSB SHEATHING 2x6 STUDS @ 16" o/c MIN. R-24 BATT INSULATION 6MIL POLY VAPOUR BARRIER 1/4" STRAPPING @ 24" o/c 5/8" GYPSUM BOARD	8'-7 5/8" +/- TO MATCH EXISTING	
INT-1		2x6 FRAMED WALL	INTERIOR 1/2" GYPSUM BOARD 2x6 STUDS @ 16" o/c 1/2" GYPSUM BOARD	8'-7 5/8" +/- TO MATCH EXISTING	

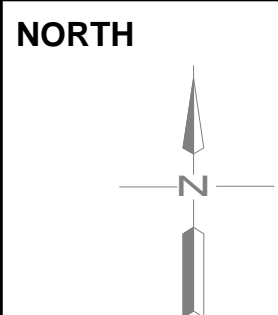
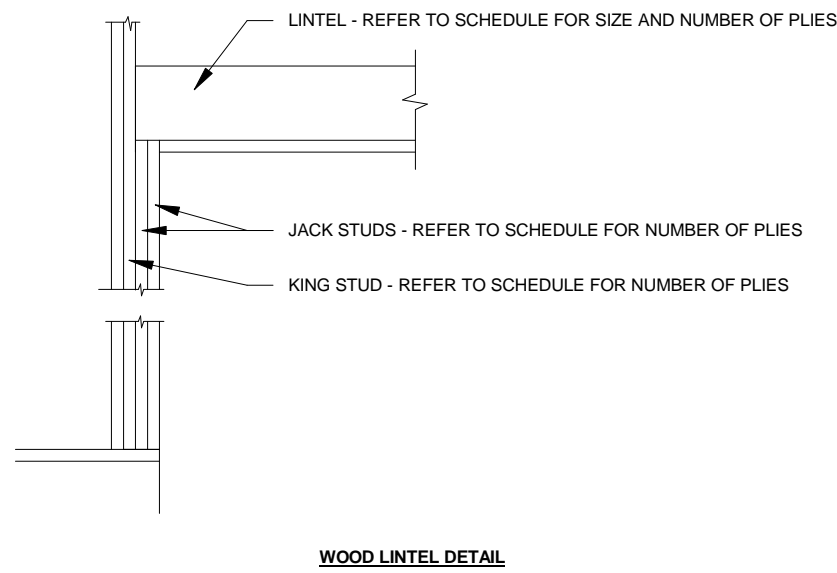


② ENLARGED GROUND FLOOR PLAN  
3/8" = 1'-0"

DOOR SCHEDULE					
TAG	DESCRIPTION	ROUGH OPENING	HEAD HEIGHT	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-PLY 2x6 SPF No.1/No.2	2 JACK STUDS / 2 KING STUDS EACH END

NOTE:

- 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 2x6 FRAMED WALLS.
- LAMINATE BUILT UP STUD POSTS IN ACCORDANCE WITH OBC.
- CONTRACTOR TO CONFIRM ROUGH OPENINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR GRADE DOORS TO BE INSULATED.



DESIGN	MR	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D
DRAWN	MR	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR
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WASYLKO  
ARCHITECT INC.

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MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT

JOHNSON  
ENGINEERING  
CONSULTANTS

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

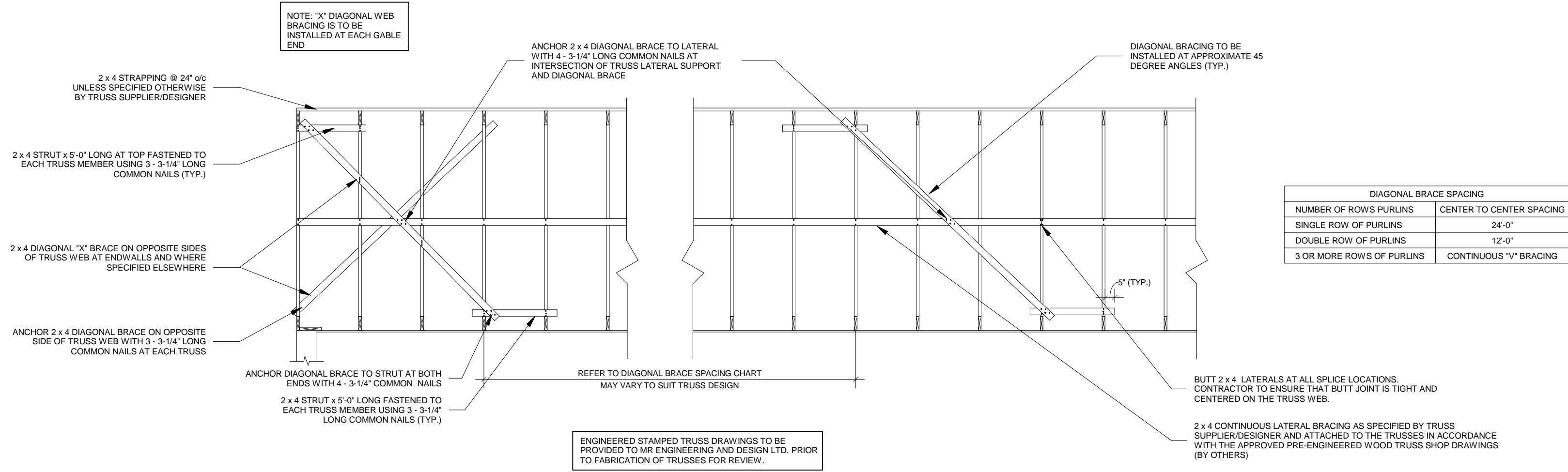
FOUNDATION PLAN  
ENLARGED ADDITION PLAN

PROJECT No.  
MR18-098

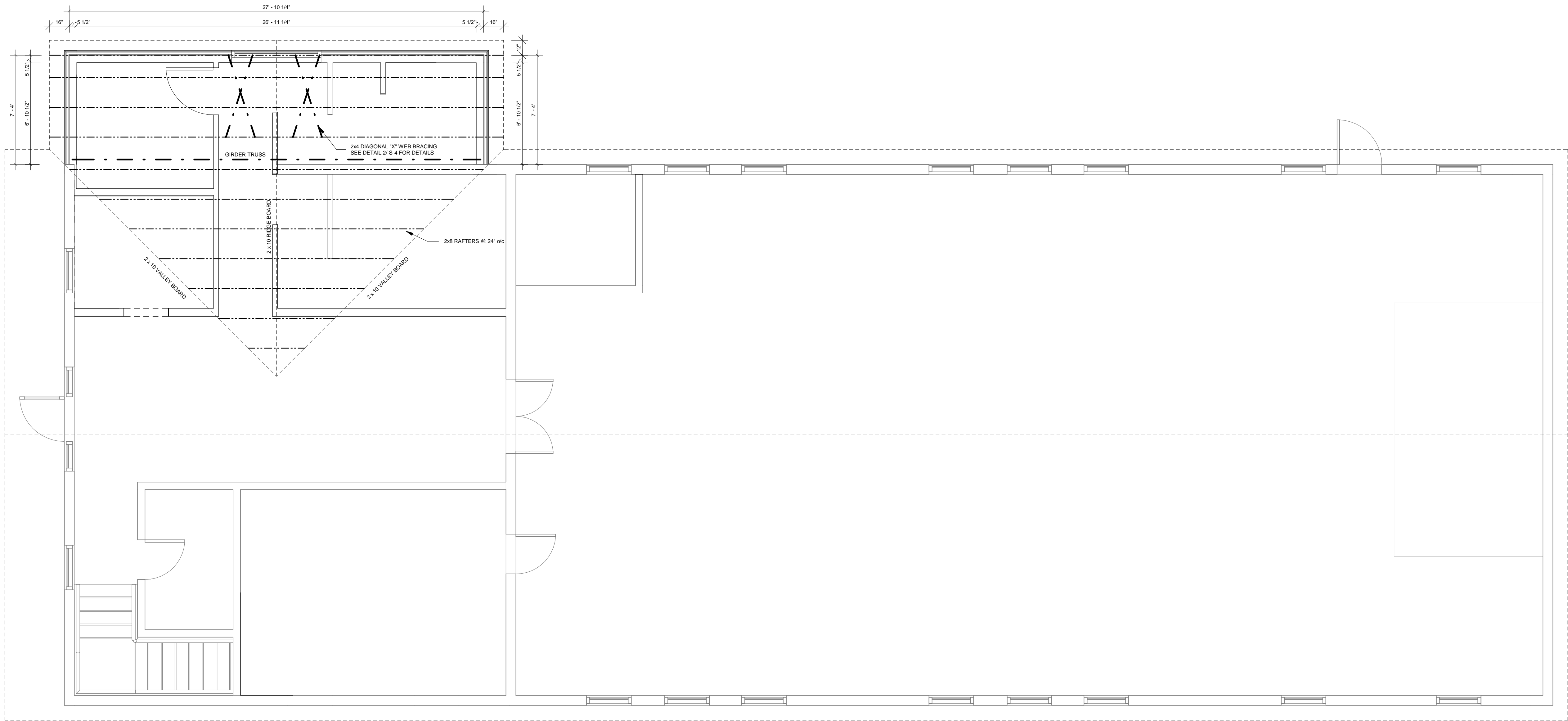
SHEET No.  
S-3



- TRUSS BRACING NOTES:**
1. TRUSSES TO BE DESIGNED FOR THE LOADS NOTED ON THE STRUCTURAL DRAWINGS.
  2. 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.
  3. BRACE SPACING AND LOADS ON DIAGONAL BRACING TO BE BASED ON A CUMULATIVE FORCE OF 70% OF THE WEB COMPRESSION. VERIFY LOADING WITH TRUSS SHOP DRAWINGS.
  4. 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).
  5. 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.
  6. ADDITIONAL TRUSS BRACING MAY BE REQUIRED TO ACCOMMODATE THE TRUSS DESIGN AFTER SHOP DRAWINGS ARE REVIEWED.

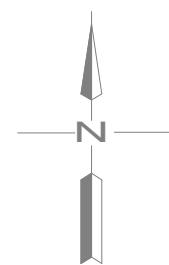


2 WEB BRACING DETAILS  
1/4" = 1'-0"



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

NORTH

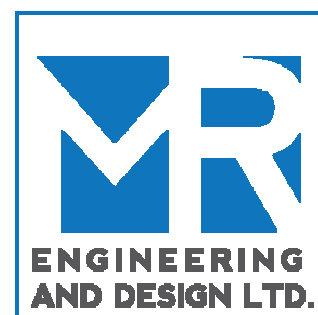


DESIGN	JM	No.	REVISION DESCRIPTION	MM/DD/YY	CHK'D
DRAWN	JM	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR
DATE	OCT. 2018	2.	ISSUED FOR APPROVAL	10/04/18	MR

ARCHITECT  
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MECHANICAL, ELECTRICAL, PLUMBING CONSULTANT  
**JOHNSON ENGINEERING CONSULTANTS**  
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18191 271-9923  
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STRUCTURAL CONSULTANT  
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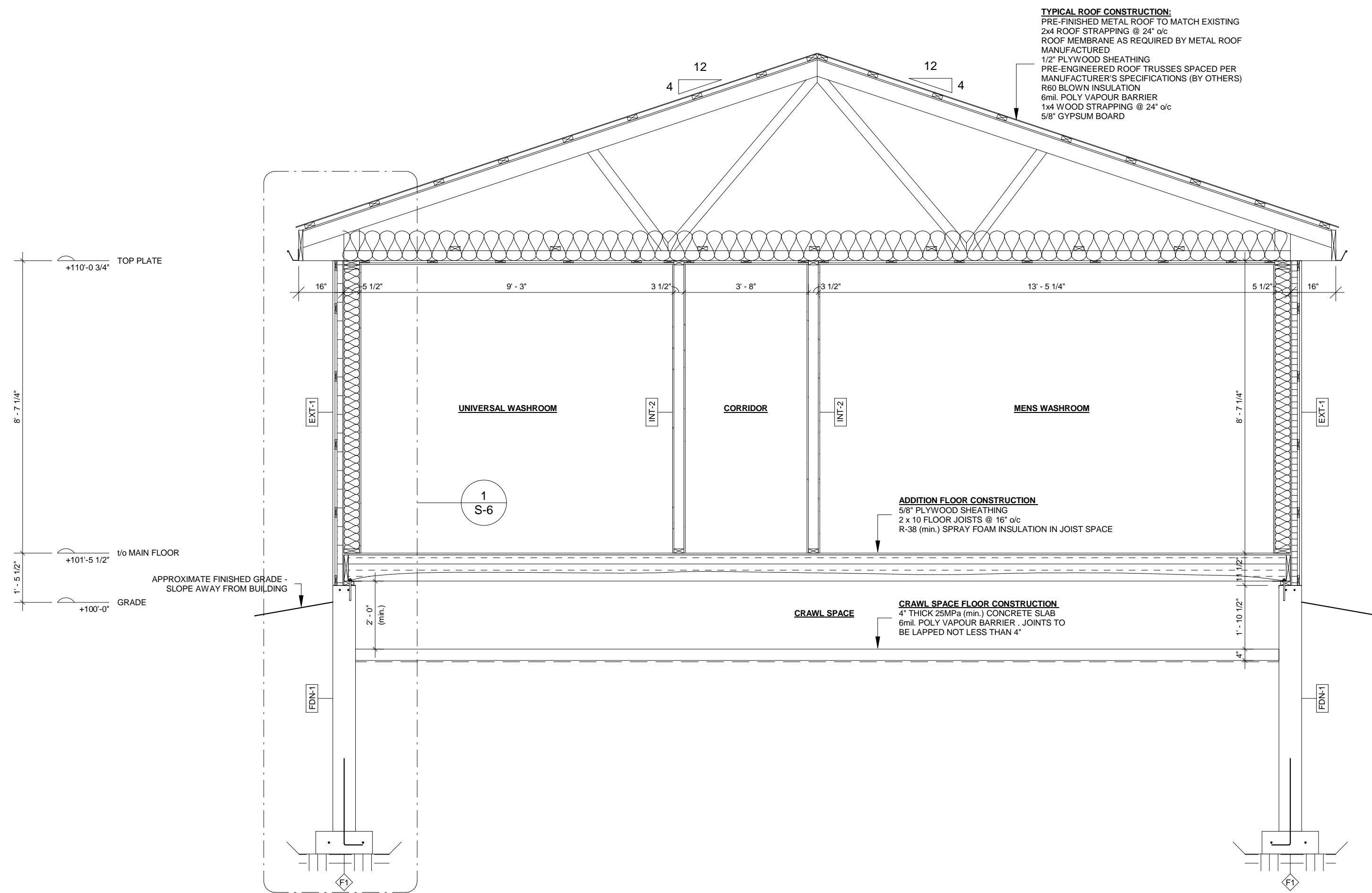


150 CENTRE ST.,  
DASHWOOD, ON  
NOM 1N0

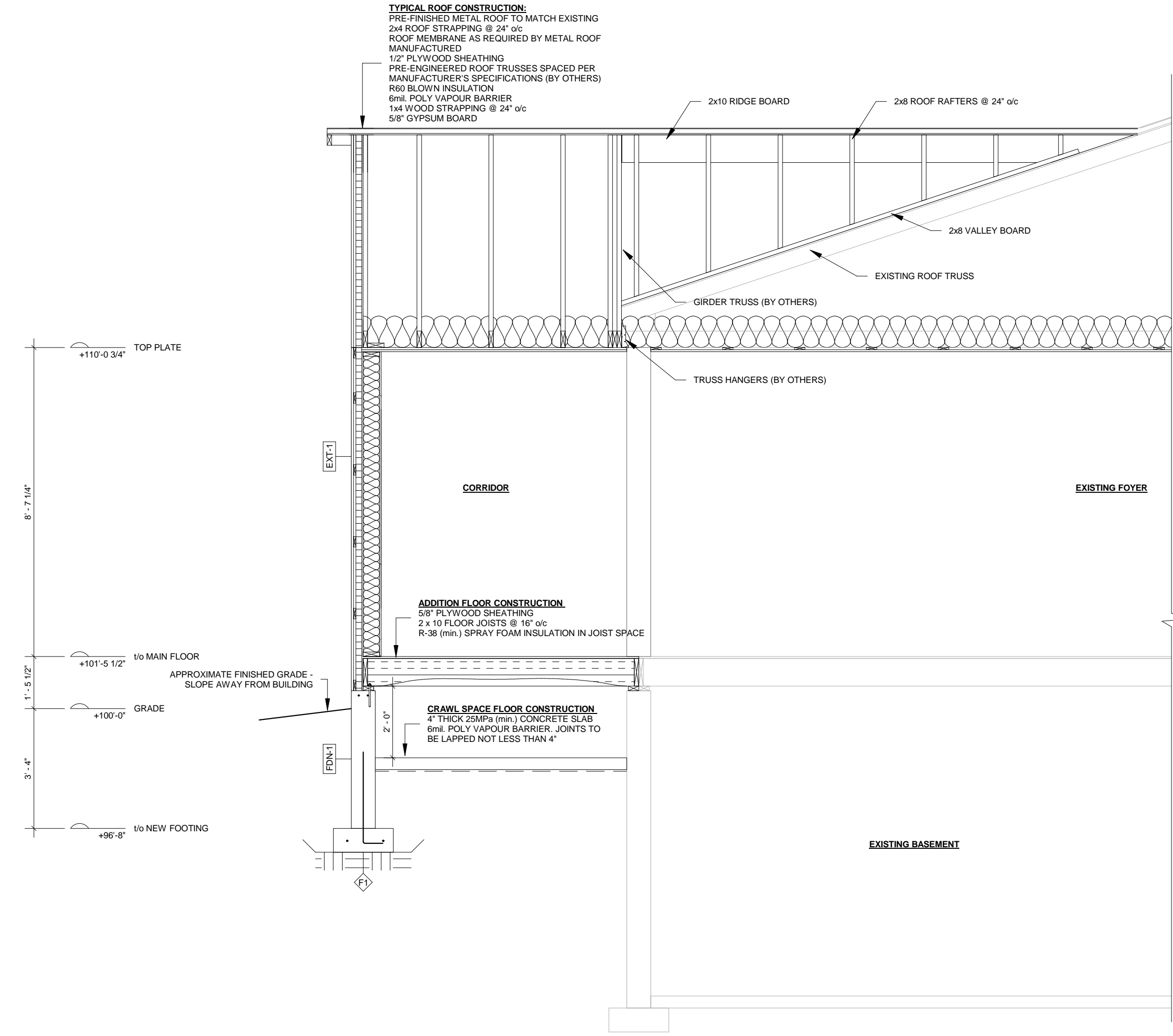
SCALE  
1/4" = 1'-0"

DASHWOOD COMMUNITY CENTRE  
WASHROOM RENOVATION  
ROOF FRAMING PLAN

PROJECT No.  
MR18-098  
SHEET No.  
**S-4**



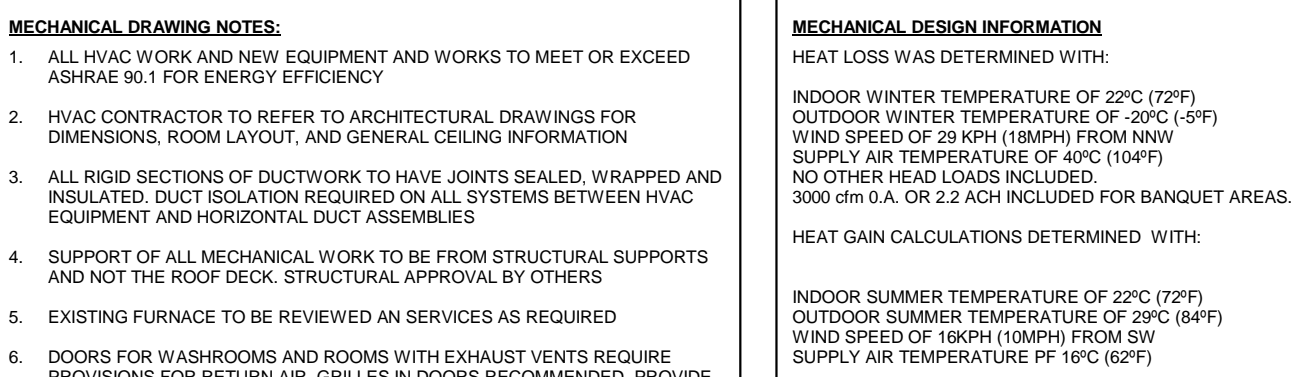
1 SECTION THROUGH ADDITION  
 3/8" = 1'-0"



2 SECTION THROUGH ADDITION & EXISTING BUILDING  
 3/8" = 1'-0"

[illegible]





MECHANICAL EQUIPMENT SCHEDULE										
ITEM	DESCRIPTION	TONS	CFM	EX. STATIC	COOLING BTU	HEATING BTU <sup>1</sup>	HP	ELECTRIC <sup>2</sup>	FRESH AIR	REMARKS
(FRY)	(SYM)									
EF-1	EXISTING FURNACE	-	1200	0.5	-	90,000 - 54,000	1/2	120V/1PH PLA-X-VA	N/A	EXISTING UNIT SERVING HALL AREA
EF-1	BATHROOM FAN AIR-KING BFO110	-	90	0.25	-	-	-	120V/1PH 70W	-	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

MECHANICAL FLOOR PLAN (MECHANICAL) - 100% (11/11/2019)

ROOMS AND FEATURES:





- UNIVERSAL WASHROOM
- COAT ROOM
- MENS WASHROOM
- WOMENS WASHROOM
- EXISTING FOYER

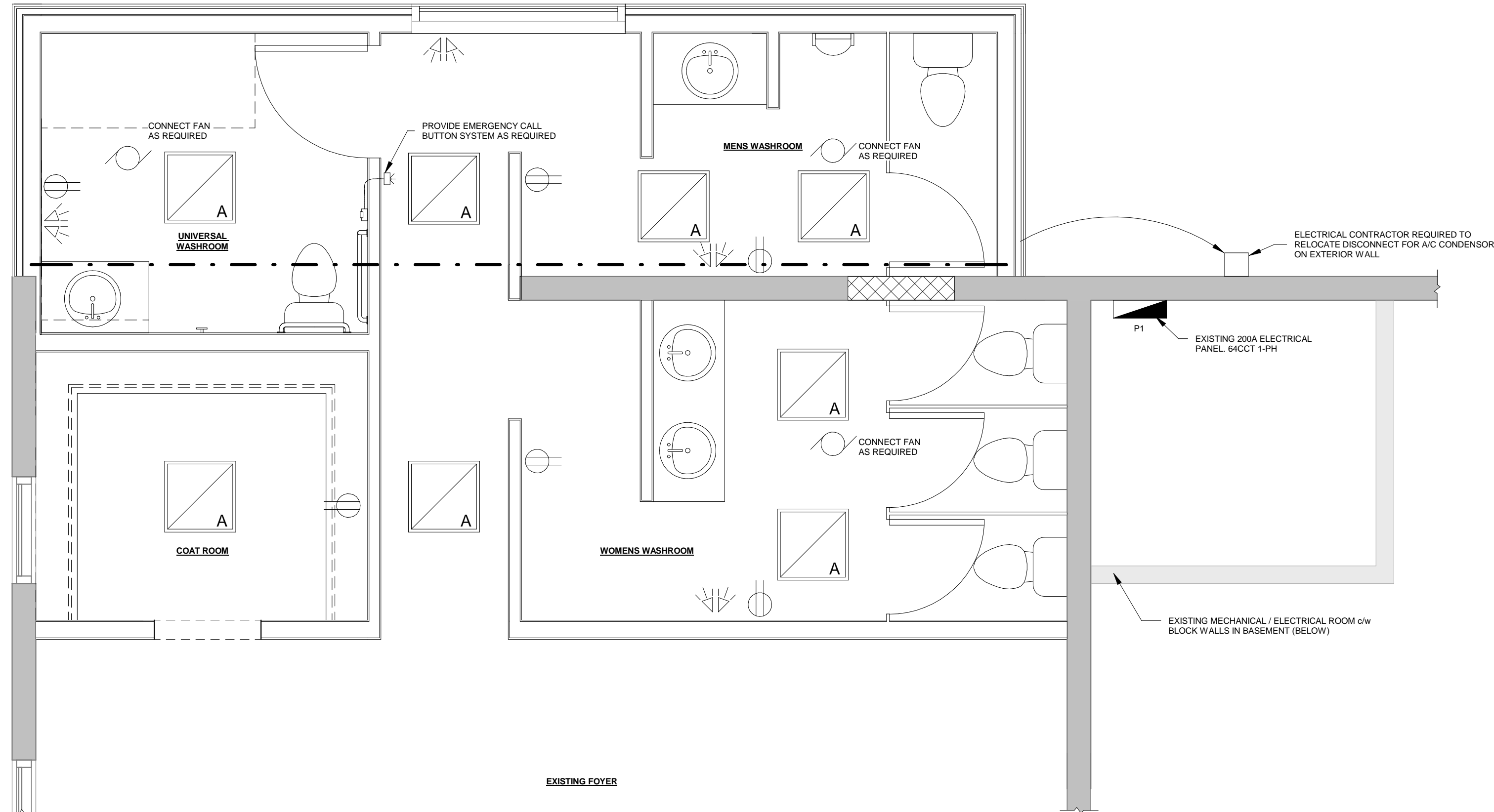
DUCTWORK AND FLOW:

- EF-1 (Exhaust Fan 1) located in the Universal Washroom.
- 100 CFM flow rate indicated for the Universal Washroom duct.
- 180 CFM flow rate indicated for the Mens Washroom duct.
- 100 CFM flow rate indicated for the Womens Washroom duct.
- DOOR-1 located near the Universal Washroom.

NOTES:

- TERMINATE IN WALL BOX
- INSULATE EXHAUST DUCTWORK MIN. 6" FROM EXTERIOR WALL (TYP.)
- TERMINATE IN WALL BOX

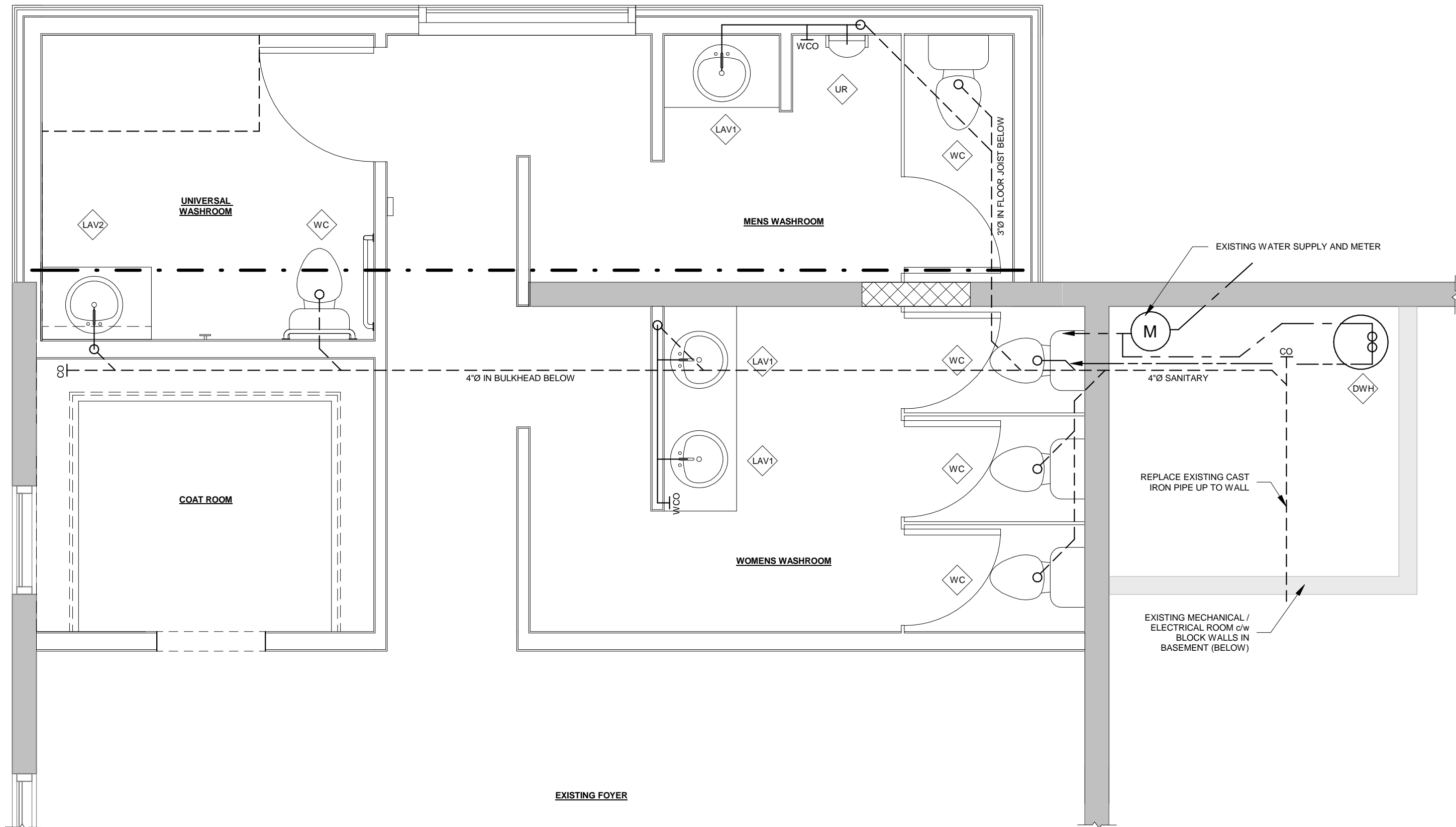
<div style="text-align: center;">  <p>NORTH</p> </div>						<div style="text-align: center;">  <p><b>WASYKO ARCHITECT INC.</b></p> <p>370 QUEENS AVE LONDON ON N6B 1Y6 519.663.0888 FAX 663.5258</p> </div>	<div style="text-align: center;">  <p><b>JOHNSON ENGINEERING CONSULTANTS</b></p> <p>STRUCTURAL - CIVIL - MUNICIPAL</p> <p>100 GARDIN STREET N6B 1Y6 519.663.0888 FAX 663.5258</p> </div>	<div style="text-align: center;">  <p><b>MR ENGINEERING AND DESIGN LTD.</b></p> <p>150 CENTRE ST., DASHWOOD, ON N0M 1N0</p> </div>	<div style="text-align: center;"> <p>150 CENTRE ST., DASHWOOD, ON N0M 1N0</p> </div>	<div style="text-align: center;"> <p>As indicated</p> </div>	<div style="text-align: center;"> <p><b>DASHWOOD COMMUNITY CENTRE WASHROOM RENOVATION</b></p> </div>	<div style="text-align: center;"> <p><b>MECHANICAL DRAWINGS FOUNDATION &amp; GROUND FLOOR PLAN</b></p> </div>	PROJECT No. MR18-098
	SHEET No. <b>S-7</b>												



- 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
  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 (in.)			FURN. BY
				SUPPLY	DRAIN	VENT	EXIST.
DHW	WATER HEATER	1	EXISTING ELECTRIC HEATER	3/4"			1
LAV1	LAVATORY	3	AMERICAN STANDARD DROP-IN OVAL SINK, WHITE, RESIDENTIAL FAUCET AS PER OWNER	1/2"	1-1/2"	1-1/2"	CONTR.
LAV2	LAVATORY	1	AMERICAN STANDARD 0854 WALL MOUNT, WHITE, B.F. FAUCET TO BE MANUAL B.F. DELTA 22CARS, 337/80 DRAIN	1/2"	1-1/2"	1-1/2"	CONTR.
WC	WATER CLOSET	5	AMERICAN STANDARD CADET ELONGATED, RIGHT HEIGHT, WHITE, B.F. STANDARD TANK MANUAL FLUSH	12"	3"	AS NOTED	CONTR.
UR	URINAL	1	2-8755 TOP SPUD URINAL c/w MANUAL FLUSH VALVE, INCLUDE WALL BRACKET	3/4" IPS	2"	1-1/2"	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"



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN IMPERIAL UNITS UNLESS NOTED OTHERWISE.
2. THESE PLANS AND SPECIFICATIONS WERE PREPARED FOR THE PURPOSES OF STRUCTURAL DESIGN ONLY.
3. 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.
4. DO NOT SCALE DRAWINGS.
5. FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
6. 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.
7. 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.
8. 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

1. REMOVE ALL TOPSOIL AND DELETERIOUS MATERIAL FROM BELOW THE EXTENTS OF THE EXCAVATION.
2. SLOPE GRADE TO DRAIN AWAY FROM BUILDINGS.
3. FOUND FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
4. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL, CAPABLE OF SAFELY SUSTAINING 150 kPa (3100 psf) AT SERVICEABILITY LIMIT STATES (SLS) AND 225 kPa (4700psf) AT ULTIMATE LIMIT STATES (ULS) CORRESPONDING TO DENSE OR COMPACT SAND OR GRAVEL (TABLE 9.4.4.1, O.B.C.).
5. GRANULAR FILL UNDER FOOTINGS SHALL BE FREE-DRAINING CLEAN GRANULAR "B" (OR BETTER) MATERIAL COMPACTED TO A MINIMUM 100% SPMDD. NO FILL SHALL BE PLACED UNDER FOOTINGS UNLESS MONITORED, INSPECTED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
6. BACKFILL AND COMPACT FOUNDATION WALLS BELOW GRADE WITH MAXIMUM 2'-0" DIFFERENTIAL IN ELEVATION FROM ONE SIDE TO THE OTHER.
7. 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.
8. NO FOOTINGS SHALL BE POURED UNTIL THE BUILDING DEPARTMENT HAS APPROVED THE FOUNDATION CONDITIONS.
9. ALL STANDING WATER SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO POURING CONCRETE.
10. ENGINEER TO BE NOTIFIED IF EXCESSIVE UNDERGROUND WATER IS ENCOUNTERED.

CONCRETE:

1. CONCRETE SHALL CONFORM TO CSA A23.1,2.3 FOR QUALITY CONTROL AND REBAR PLACEMENT.
2. REINFORCING STEEL:
- \* CONFORM TO: CAN/CSA-G30.18-M82 CSA-G30.18-M183
  - \* WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH  $f_y = 448 \text{ MPa (65,000psi)}$
  - \* REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH  $f_y = 400 \text{ MPa (58,000psi)}$
3. ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES SO THAT THERE IS NO MOVEMENT DURING CONCRETE PLACEMENT.
4. 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	SPUCE LENGTH : mm (")				
	25MPa	30MPa	32MPa	35MPa	35MPa
10M	400 (16")	400 (16")	400 (16")	400 (16")	400 (16")
15M	600 (24")	600 (24")	500 (20")	500 (20")	500 (20")
20M	800 (32")	700 (28")	700 (28")	700 (28")	700 (28")
25M	1100 (48")	1100 (44")	1100 (44")	1100 (44")	1100 (44")

5. THE ABOVE TABLE ALSO APPLIES TO ALL DOWELS UNLESS NOTED OTHERWISE.
6. ALL HORIZONTAL BARS SHALL BE HOOKED 600mm (24") AROUND CORNERS/WALL INTERSECTIONS UNLESS NOTED OTHERWISE.
7. 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.
8. 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, D-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	

9. UNLESS OTHERWISE SPECIFIED BY THE OWNER, REINFORCEMENT SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES:
- a) CONCRETE COVER: +/-12mm (1/2") BUT NO LESS THAN 1/3 OF THE SPECIFIED MINIMUM COVER
- i) WHERE THE DEPTH OF THE FLEXURAL MEMBER, THICKNESS OF A WALL OR THE SMALLEST DIMENSION OF A COLUMN IS
- i) 200mm (8") OR LESS: +/- 6mm (1/4")
  - ii) 200mm (8") OR LESS: +/- 6mm (1/4")
  - iii) 600mm OR LARGER: +/- 20mm (3/4")
- c) LATERAL SPACING OF BARS: +/- 30mm (1-1/4")
- d) LONGITUDINAL LOCATION OF BENDS AND ENDS OF BARS: +/- 50mm (2")
- e) LONGITUDINAL LOCATION OF BENDS AND ENDS AT DISCONTINUOUS ENDS OF MEMBERS: +/- 20mm (3/4")
10. 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.
11. ALL GRIT, MUD AND DEBRIS SHALL BE REMOVED FROM THE REINFORCING STEEL PRIOR TO THE PLACEMENT OF CONCRETE.
12. PROVIDE PORTLAND CEMENT OF CANADIAN MANUFACTURE CONFORMING WITH CSA/CAN 3-A5, TYPE 10.
13. 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 15'-0".
14. PROVIDE CLEAN, UNCOATED SAND AND COARSE AGGREGATES FROM APPROVED SOURCES WHICH CONFORM WITH CSA/CAN 3-A2M. REFER TO THE CONCRETE SPECIFICATIONS PROVIDED BELOW FOR AGGREGATE SIZE.
15. PROVIDE PLASTICIZER OF WATER REDUCING ADD MIXTURE WHERE INCREASED WORKABILITY IS REQUIRED. **DO NOT ADD WATER ON-SITE.**
16. USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE.
17. ALL CONCRETE SHALL HAVE A 3" SLUMP +/-1".
18. TAKE ADEQUATE MEASURES TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST SEVEN DAYS AFTER CONCRETE PLACEMENT.
19. ALL CONCRETE SHALL BE TESTED BY A CSA CERTIFIED CONCRETE TESTING LABORATORY.
- i) CURING TYPE 1 - 3 DAYS @ 10°C TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
- ii) CURING TYPE 2 - 7 DAYS @ 10°C TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
- iii) CURING TYPE 3 - A WET CURING PERIOD OF 7 DAYS.

CONCRETE SPECIFICATIONS						
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:

1. LUMBER SHALL BE No. 2 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
2. ALL LAMINATED VENEER LUMBER (LVL) SHALL BE 2.0E Fb 3,100 R BETTER UNLESS NOTED OTHERWISE.
3. ALL POSTS SHALL BE No.1 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
4. ALL WOOD IN CONTACT WITH CONCRETE OR SOILEARTH SHALL BE PRESSURE TREATED.
5. ALL PLYWOOD SHALL CONFORM TO CSA STANDARD 0121 OR 0151.
6. ALL OSB SHALL CONFORM TO CSA 0325 CONSTRUCTION SHEATHING OR CSA 0437.0 WAFERBOARD WITH MINIMUM PANEL MARK FOR 0325 OSB 1500X76.
7. ALL NAIL/FASTENERS USED WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED OR ACQ QUALIFIED.
8. ALL MANUFACTURED CONNECTORS/HARDWARE TO BE GALVANIZED.
9. ALL NAILING SHALL BE AS PER NBCC/IBC UNLESS NOTED OTHERWISE. NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD B111 "WIRE NAILS, SPIKES AND STAPLES".
10. 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.
11. STUD WALLS SHALL BE ANCHORED TO THE FOUNDATION 1/2"Ø ANCHOR BOLTS SPACED AS INDICATED ON THE DRAWINGS.

TRUSSES:

1. 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 CONNECTORS. 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.
2. 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.
3. 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.
4. UNBALANCED LOADING CONDITIONS SHALL BE INCLUDED IN THE TRUSS DESIGN.
5. TRUSS DESIGNER TO ACCOUNT FOR INCREASE SNOW LOADS DUE TO ROOF VALLEYS AND SNOW SHADOWS/DRIFTING.
6. 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:

1. 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.
2. 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.
3. THE FOLLOWING INSPECTIONS SHALL BE REQUIRED:
- a) FOOTINGS - WHEN THE CONCRETE FORMWORK AND REINFORCING STEEL HAVE BEEN SET AND ARE READY FOR THE PLACEMENT OF CONCRETE
  - b) FOUNDATION WALLS - WHEN THE CONCRETE FORMWORK AND REINFORCING STEEL HAVE BEEN SET AND ARE READY FOR THE PLACEMENT OF CONCRETE.
  - c) 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
  - d) TRUSS INSPECTION - WHEN THE TRUSSES AND ASSOCIATED BRACING HAVE BEEN COMPLETED, PRIOR TO INSTALLING CEILING FINISHES
  - e) FINAL REVIEW - WHEN THE STRUCTURAL COMPONENTS OF THE FACILITY HAVE BEEN COMPLETED
4. 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

LIVE LOAD

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

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:

1. **ALL DESIGN LOADS ARE UNFACTORED**
2. 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

WASYLKO  
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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

DASHWOOD COMMUNITY CENTRE  
WASHROOM RENOVATION

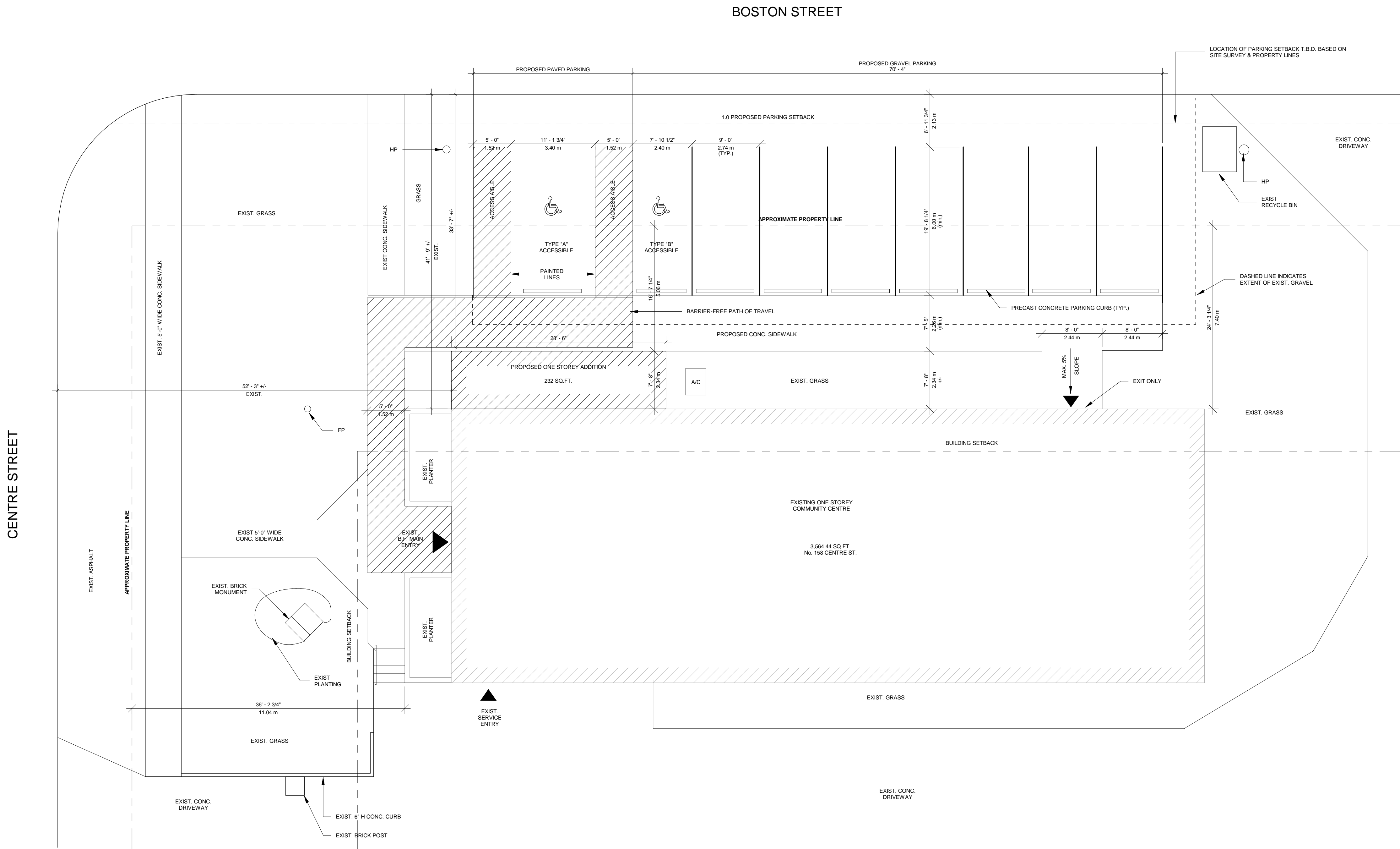
PROJECT No.

MR18-098

SHEET No.

S-9

GENERAL NOTES

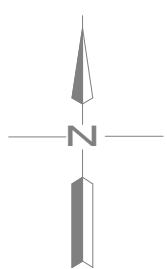


NOTE:  
SITE UPGRADES NOT INCLUDED IN THE  
CONTRACT PRICE AND WILL BE COMPLETED ON  
A TIME AND MATERIAL BASIS

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"

NORTH



DESIGN	JM	No.	REVISION DESCRIPTION	MM/DD/YY	CHKD
DRAWN	JM	1.	PRELIMINARY - FOR REVIEW	08/22/18	MR
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ARCHITECT

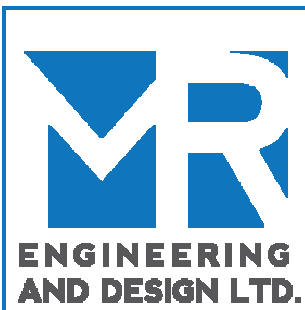
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STRUCTURAL CONSULTANT



**PRELIMINARY  
NOT FOR CONSTRUCTION**

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**