

gb

LINCOLN ROAD CHAPEL

FRONT ENTRANCE ADDITION & INTERIOR RENOVATIONS

145 LINCOLN ROAD, WATERLOO, ONT

LIST OF DRAWINGS:

ARCHITECTURAL

A0	COVER SHEET WITH OBC MATRIX
A1.1	SITE PLAN
A2.1	BASEMENT FLOOR PLAN
A2.2	MAIN FLOOR PLAN
A2.3	SECOND FLOOR PLAN
A3.1	ELEVATIONS
A4.1	BUILDING SECTION
A4.2	BUILDING SECTION
A5.1	DOOR SCHEDULE, ROOM SCHEDULE, & GEN NOTES

MECHANICAL

M1	MECHANICAL RENOVATIONS
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ELECTRICAL

E1	ELECTRICAL PLANS
E2	BASEMENT PLAN, ELECTRICAL SPECIFICATION, & SCHEDULES

ARCHITECTURAL NOTES:

CLARIFICATION OF DRAWING USE

The architectural drawings have been developed to relate construction for the building and to implement requirements of the Ontario Building Code Part 3.

The Client and Builder shall be solely responsible for notifying GB Architect Inc. of any change in the scope of work contained on these drawings, and if work performed by other parties affect the work contained on these drawings, and further, the Client and the Contractor shall jointly be responsible for securing direction in writing from GB Architect Inc. regarding any such changes or modifications.

The Client and Contractor shall jointly be responsible to notify GB Architect Inc. to perform a review of the work at the following stages:

1. First review: periodically during the construction of all rough framing assemblies;
2. Next review: periodically during the construction of all insulation and vapour barrier, and at the total at completion of this work;
3. Next review: periodically during the construction of all drywall (no taping yet to be applied) & all other surface substrate materials, all fire separation assemblies, and at the total completion of this work;
4. Next review: during roof flashing and membrane work, and, at completion of roofing but before any metal cap flashing work;
5. Next review: during installation of and at completion of all windows and all rated door/frame installations;
6. Other reviews: periodically during the construction of all other GB Architect Inc. work;
7. Final review: upon completion of all other work noted on these drawings.

DRAWING REFERENCE:

1. THE STRUCTURAL ENGINEERING DRAWINGS ARE SUBMITTED ON SEPARATE DRAWING SHEETS AND UNDER SEPARATE SEAL AND SHALL SUPERCEDE ALL OTHER STRUCTURAL WORK IDENTIFIED ELSEWHERE ON THE ARCHITECTURAL DRAWINGS.
2. MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE SUBMITTED ON SEPARATE DRAWING SHEETS AND UNDER SEPARATE SEAL, AND SHALL SUPERCEDE ALL OTHER MECH/ELEC/PLUMBING WORK IDENTIFIED ELSEWHERE ON THE ARCHITECTURAL DRAWINGS.
3. DRAWINGS, NOTES & DIMENSIONS SHOWN ON GB ARCHITECT INC. DRAWING SHEETS SHALL SUPERCEDE ALL OTHER WORK. CONFIRM ALL DISCREPANCIES BETWEEN ALL DRAWING SHEETS WITH ARCHITECT PRIOR TO PERFORMING AFFECTED WORK.
4. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND WRITTEN SPECIFICATIONS. CONFIRM ALL DISCREPANCIES BETWEEN DRAWING SHEETS & SHOP DRAWINGS WITH ARCHITECT PRIOR TO PERFORMING AFFECTED WORK.

SHOP DRAWING SUBMITTALS REQUIRED:

SUBMIT THE FOLLOWING SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW:

1. FIRE RATED DOORS AND FRAMES;
2. DOOR HARDWARE SCHEDULE;
3. WASHROOM ACCESSORIES & GRAB BARS;
4. DOORS;
5. WINDOWS

WALL TYPES:

1. ALL DRYWALL SHALL BE 5/8" TYPE "X" AND FINISHED UNLESS OTHERWISE NOTED.
2. ALL STUD WORK SHALL BE PLACED AT 16" O.C. UNLESS NOTED OTHERWISE.
3. PROVIDE METAL "T" STRAP BRACING AS DIRECTED BY STRUCTURAL ENGINEER TO ALL STUD PARTITION ASSEMBLIES.
4. ALL RESILIENT METAL Furring CHANNEL SHALL BE PLACED AT 16" O.C. HORIZONTALLY UNLESS OTHERWISE NOTED.

SITE ZONING + MUNICIPAL DATA:

- A. ALL ASPECTS RELATED TO ZONING PERMISSION, SURVEY INFORMATION AND THE LIKE REMAIN THE SOLE RESPONSIBILITY OF THE CLIENT.

OBC CLASSIFICATIONS:

- A. REFER TO OBC DATA MATRIX
- B. BARRIER FREE ACCESSIBILITY IS REQUIRED TO THIS FACILITY;
- C. A FIRE ALARM SYSTEM IS NOT REQUIRED;
- D. A STAND PIPE & HOSE ASSEMBLY IS NOT REQUIRED;
- E. PANIC RELEASE HARDWARE IS NOT REQUIRED;
- F. PROVISION OF FIRE EXTINGUISHERS IS THE SOLE RESPONSIBILITY OF CLIENT AND SHALL MEET WITH APPROVAL OF LOCAL FIRE OFFICIALS (& GOVERNING SECTIONS OF THE ONTARIO FIRE CODE);
- G. A MINIMUM OF TWO DESIGNATED EXITS ARE REQUIRED;
- H. EXIT SIGNAGE AND EMERGENCY LIGHTING IS REQUIRED - REFER TO MKE ENGINEERED DRAWINGS & SPECIFICATIONS SUBMITTED UNDER SEPARATE SEAL;
- I. SEPARATE ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY;
- J. ALL DRYWALL SHALL BE 5/8" TYPE "X" UNLESS OTHERWISE NOTED;
- K. ALL RATED DOOR AND FRAME ASSEMBLIES SHALL BE EQUIPPED WITH A DOOR CLOSER, SELF LATCH HARDWARE, AND UNPAINTED LABELS IDENTIFYING DESIGNATED FIRE RATINGS;
- L. "FIRE-STOP" ALL PLUMBING PIPE PASSING THROUGH ANY "FIRE SEPARATION" WALL OR CEILING/FLOOR - UNLESS PIPE IS NON-COMBUSTIBLE;
- M. PROVIDE SOLID BLOCKING AT MID HEIGHT OF ALL UN-INSULATED STUD WALLS EXCEEDING A HEIGHT OF 9'-10";
- N. FIRE-STOP ALL JUNCTIONS BETWEEN HORIZONTAL & VERTICAL CONCEALED SERVICE SPACES;
- O. ALL SERVICE CONTROLS & ELECTRICAL SWITCHES SHALL BE MOUNTED NO HIGHER THAN 3'-11" A.F.F.

GENERAL CONSTRUCTION NOTES:

1. ALL DRYWALL SHALL BE 5/8" TYPE "X" UNLESS OTHERWISE NOTED.
2. USE NRCA ROOFING AND FLASHING DETAILS TO ALL ROOFWALL AND CANOPY CONNECTIONS. FLASH AND COUNTER FLASH, TYPICAL ALL LOCATIONS.
3. TYPICAL FIRE SEPARATION WALLS ASSEMBLIES SHALL BE EXTENDED FROM FLOOR LEVELS AND TERMINATED AT UNDERSIDE OF CEILING AND/OR ROOF MEMBRANES.
4. PROVIDE POSITIVE BACKING SUPPORT AND ANCHORAGE FOR ALL INTERIOR STUD WALLS (BEARING OR NONBEARING), FOR ALL WALL ATTACHMENTS, EQUIPMENT BACKING AND THE LIKE.
5. PROVIDE MINIMUM 5/8" TYPE "X" FINISHED DRYWALL AS A FINISHED CEILING WHERE NOTED, SURFACE MOUNTED WIRING, EQUIPMENT AND THE LIKE ARE NOT PERMITTED UNLESS PRIOR APPROVAL IN WRITING IS RECEIVED FROM ARCHITECT & OWNER.
6. PROVIDE ADEQUATE ROUGH BUCK SUPPORT FOR NEW DRYWALL BOARD ASSEMBLY. USE 5/8" TYPE "X" FINISHED DRYWALL FOR ALL BULKHEAD AND JAMB WORK.
7. AT THE CONTRACTOR'S DISCRETION, WALL STUD WIDTH MAY BE INCREASED TO 5 1/2" TO ALLOW FOR PLUMBING MATERIAL, ETC., BUT ONLY AFTER RECEIVING WRITTEN APPROVAL FROM GB ARCHITECT INC.
8. ENSURE A MAXIMUM DIFFERENCE IN ELEVATION OF 1/2" AT NEW ENTRY DOORS TO ACCOMMODATE BARRIER-FREE ACCESSIBILITY INTO THE FACILITY. USE DESIGNATED DOOR SILL HARDWARE TO BOTH DOOR LEAFS.

EXTERIOR INSULATED FINISH ASSEMBLY:

1. TRADE RESPONSIBLE FOR E.I.F.S (DRYVIT, STUCCO, OR SIMILAR) ASSEMBLY, SUPPLY AND INSTALLATION SHALL REVIEW ALL WORK, MATERIALS, APPLICATION AND THE LIKE WITH THE ARCHITECT ON-SITE PRIOR TO PRICING THE WORK.
2. SUBMIT TO ARCHITECT A CERTIFICATE FROM THE SUPPLIER THAT THE INSTALLER(S) ARE APPROVED AND PERMITTED TO INSTALL SUPPLIERS MATERIALS.
3. SUBMIT TO THE ARCHITECT, PRIOR TO COMMENCING THE WORK, THE SUPPLIERS & THE MANUFACTURERS LONG FORM WRITTEN INSTALLATION INSTRUCTIONS, RECOMMENDED PROCEDURES, AND ALL JOINT DETAILS, REINFORCING, ACCESSORIES AND ALL OTHER DETAILS REQUIRED FOR THIS SPECIFIC PROJECT.
4. CONFIRM WITH ARCHITECT ON-SITE, THE LOCATION OF ALL CONTROL JOINTS AND "GROOVES" PRIOR TO THE COMMENCEMENT OF ANY WORK ON-SITE.

Firm Name: GB ARCHITECT INC.
Certificate of Practice Number: 4217
430 Ontario Street
Stratford, ON, N5A 3J2

The Certificate of Practice Number
of the holder is the holder's BCDN.

Name of Project: FRONT ENTRANCE ADDITION AND INTERIOR RENOVATIONS
FOR LINCOLN ROAD CHAPEL

Location: 145 LINCOLN ROAD, WATERLOO, ONT

The Architect above has exercised
responsible control with respect to
design activities. The Architect's
seal number is their BCDN number.

Ontario's 2006 Building Code Data Matrix Part 3

OBC Reference

References are to Division B unless noted
(A) for Division A or (C) for Division C

ITEM	PROJECT DESCRIPTION					ARTICLE					
1	PROJECT DESCRIPTION		□ NEW □ ADDITION □ CHANGE OF USE □ ALTERATION		■ PART 11 11.1 to 11.4	■ PART 3 11.2(A)					
2	MAJOR OCCUPANCY(S) A2					3.1.2(1d)					
3	BUILDING AREA (m ²)		EXISTING 2257m ²	NEW 27m ²	TOTAL 2284m ²	1.4.1.2(A)					
4	GROSS AREA (m ²)		EXISTING 5010m ²	NEW 27m ²	TOTAL 5037m ²	1.4.1.2(A)					
5	NUMBER OF STOREYS		ABOVE GRADE 2		BELOW GRADE 1	1.4.1.2(A) & 3.2.1					
6	NUMBER OF STREETS/ACCESS ROUTES 1					3.2.2.10 & 3.2.5					
7	BUILDING CLASSIFICATION		A2 INSTITUTIONAL			3.2.2.26					
8	SPRINKLER SYSTEM PROPOSED		□ ENTIRE BUILDING □ SELECTED COMPARTMENTS □ SELECTED FLOOR AREAS □ BASEMENT OR IN LIEU OF ROOF RATING INDEX □ NOT REQUIRED			3.2.2.26 3.2.15 3.2.2.17 INDEX					
*NOTED: EXISTING FACILITY DOES NOT HAVE A SPRINKLER SYSTEM, THERE IS NO CHANGE IN OCCUPANT LOAD, THEREFORE NO SPRINKLER SYSTEM IS PROPOSED IN THE RENOVATED AREAS.											
9	STANDPIPE REQUIRED		■ YES ■ NO			3.2.9.1					
10	FIRE ALARM REQUIRED		■ YES ■ NO			3.2.4.1					
11	WATER SERVICE/SUPPLY IS ADEQUATE		■ YES ■ NO			3.2.5.7					
12	HIGH BUILDING		□ YES □ NO			3.2.6.1					
13	CONSTRUCTION RESTRICTIONS: COMBUSTIBLE		□ NON-COMBUSTIBLE		■ BOTH	3.2.2.70					
14	ACTUAL CONSTRUCTION		□ COMBUSTIBLE		□ NON-COMBUSTIBLE	■ BOTH					
15	MEZZANINE(S) AREA (m ²)		EXISTING AREA 239m ²		NEW AREA -						
16	MAX. AREA OF MEZZ FOR ONE EXIT		= 200m ² , TWO EXITS REQUIRED								
17	OCCUPANT LOAD BASED ON 1 PERSON/SEE BELOW		■ DESIGN OF BUILDING			3.1.17.1					
18	THERE IS NO CHANGE TO OCCUPANT LOADING. OPERATIONS REMAIN UNCHANGED.										
19	BARRIER FREE DESIGN		■ YES □ NO (EXPLAIN)			3.8					
20	HAZARDOUS SUBSTANCES		□ YES ■ NO			3.3.1.2 & 3.3.1.9					
21	REQUIRED FIRE RESISTANCE RATING (FRR)	HORIZONTAL ASSEMBLIES FRR (HOURS)		LISTED DESIGN NO. OR DESCRIPTION (SG-2)		3.2.2.26 & 3.2.1.4					
FLOORS 0.75m HOURS		EXISTING CONSTRUCTION				-					
ROOF - HOURS		EXISTING CONSTRUCTION				-					
MEZZANINE 0.75m HOURS		EXISTING CONSTRUCTION				-					
FRR OF SUPPORTING MEMBERS		LISTED DESIGN NO. OR DESCRIPTION (SG-2)									
FLOORS 0.75m HOURS		N/A				-					
ROOF - HOURS		N/A				-					
MEZZANINE 0.75m HOURS	N/A				-						
■ IF OF COMBUSTIBLE CONSTRUCTION											
22	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS					3.2.3					
WALL		AREA OF EBF (m ²)	L/D (m)	L/H (m)	PERMITTED MAX. % OF OPENINGS	PROPOSED % OF OPENINGS	FRR (HOURS)	LISTED DESIGN OR DESCRIPTION	COMB. CONST.	COMB. CONST. NONC. CLADDING	NON-COMB. CONST.
NORTH		NOT APPLICABLE - EXISTING CONDITIONS									
SOUTH		42 m ²	39 m	31-10d	100%	60%	-	-	-	-	-
EAST		15 m ²	51 m	31-10d	100%	80%	-	-	-	-	-
WEST		NOT APPLICABLE - FACES STREET									
ADDITIONAL WALL AREAS CONTINUED BELOW											
23	OTHER - DESCRIBE										
24	MAXIMUM TRAVEL DISTANCE TO EXIT GROUND FLOOR MAXIMUM PERMITTED					45m (98'-5")	ACTUAL 22m (72'-0")*		3.4.2.5		
25	TRAVEL DISTANCE OF RENOVATED AREAS ONLY										
26	EXIT WIDTH REQUIRED								3.4.3.4		
27	GROUND FLOOR MINIMUM REQUIRED					mm	ACTUAL mm				
28	EXISTING OCCUPANT LOAD REMAIN AS IS & EXITS WIDTH INCREASED BY 1828mm										
29	WASHROOMS CLOSETS PROVIDED					MM 10	WOMEN 10		3.7.4.3 (16)		
30	EXISTING NUMBER OF FIXTURES TO REMAIN AS IS										
31	CONCEALED SPACE (FLOOR OR CEILING) USED AS A PLENUM					□ YES	■ NO				

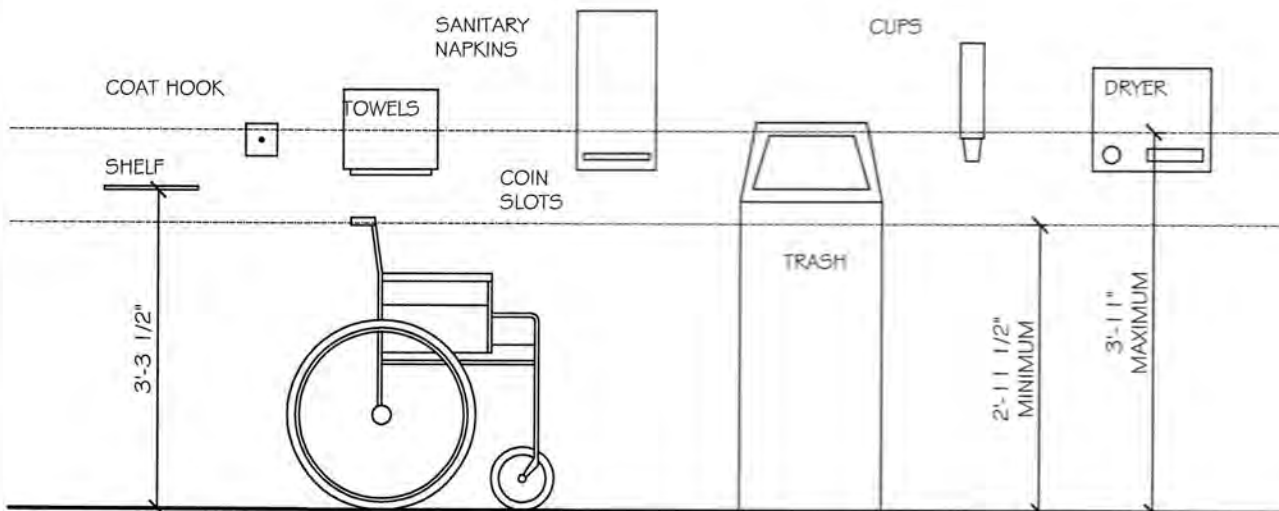
BARRIER FREE DESIGN REQUIREMENTS

BARRIER FREE ENTRY DOOR ASSEMBLY NOTES:

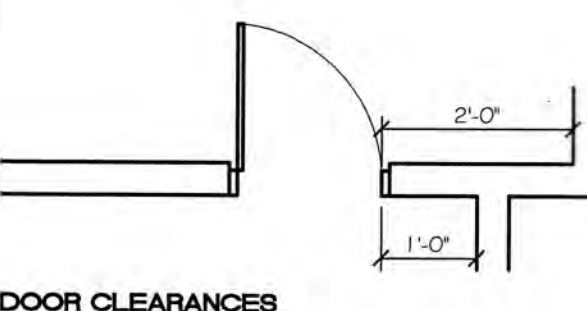
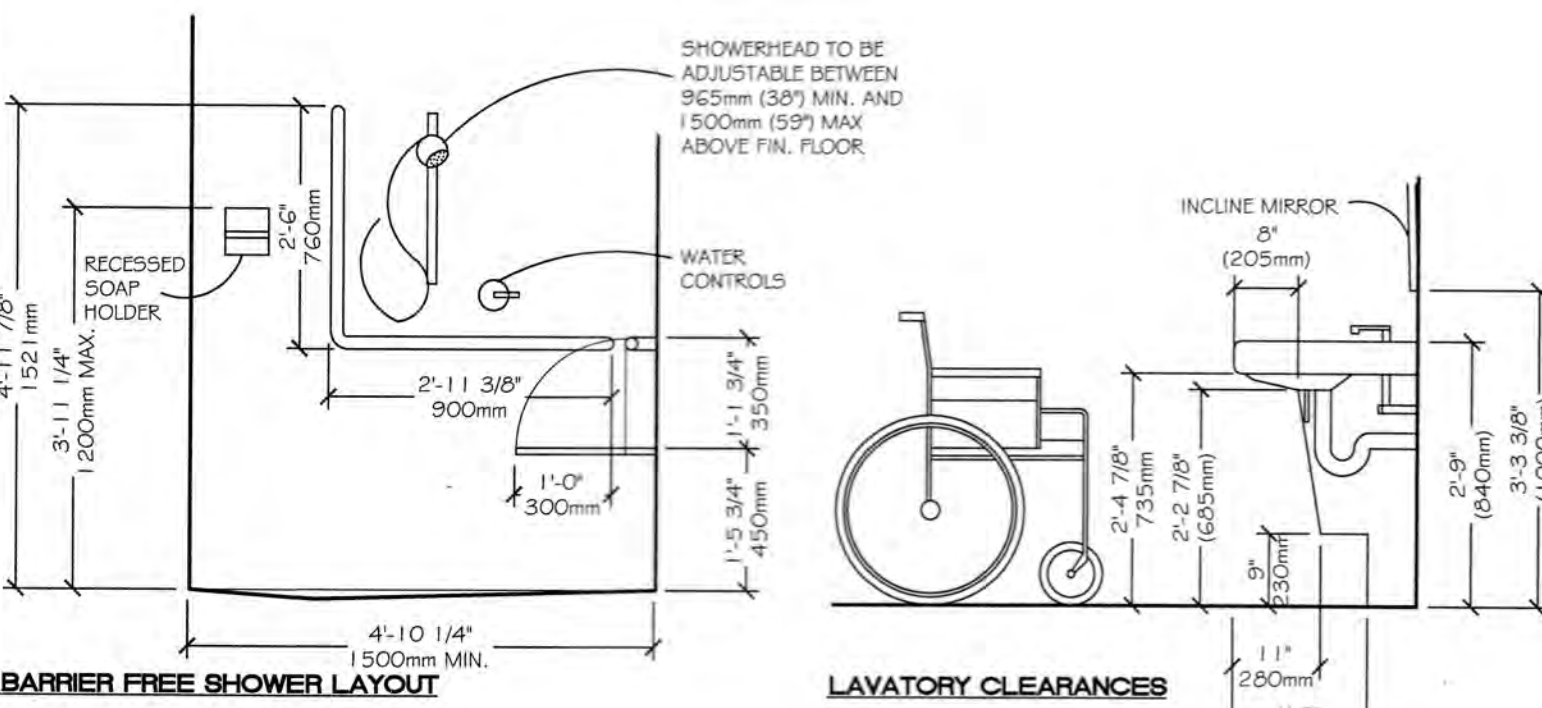
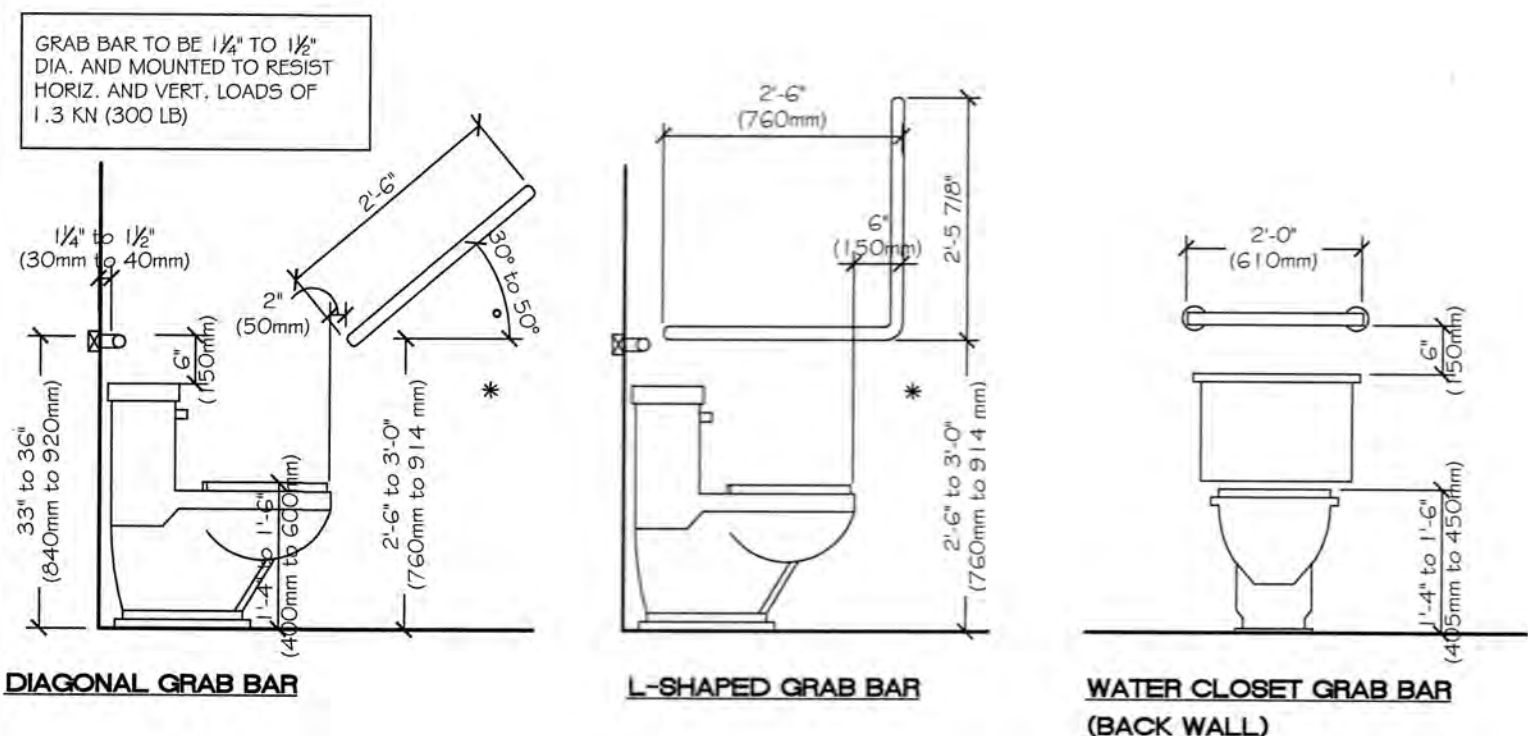
1. ENSURE MAXIMUM DIFFERENCE IN ELEVATION OF 1/2" AT NOTED BUILDING ENTRY DOOR TO ACCOMMODATE BARRIER FREE ACCESSIBILITY INTO THE FACILITY. USE DESIGNATED BARRIER FREE DOOR SILL.

BARRIER FREE ACCESSIBILITY NOTES:

1. WORK & ACCESSORIES REQUIRED TO "ACCESSIBLE" WASHROOMS:
 - 1.1. PROVIDE ONE TILT MIRROR DESIGNATED AS "ACCESSIBLE";
 - 1.2. INSULATE WASTE AND HOT WATER SUPPLY PIPING AT JUNCTION OF LAVATORY;
 - 1.3. WALL HUNG LAVATORY SHALL BE EQUIPPED WITH APPROVED "WING HANDLE" TRIM;
 - 1.4. MOUNT ALL FIXTURES AND ACCESSORIES AT 3'-11" A.F.F.;
 - 1.5. ENSURE MINIMUM 24" CLEARANCE FROM JAMBS TO INSIDING OF DOORS;
 - 1.6. ENSURE MINIMUM 12" TO OUT SWING OF DOORS;
 - 1.7. PROVIDE ONE COAT HOOK AT 3'-11" A.F.F.;
 - 1.8. PROVIDE UNIVERSAL BARRIER FREE SIGNAGE TO BE WASHROOM DOORS;
2. GRAB BARS TO ACCESSIBLE WASHROOM (ABLE TO SUPPORT 300 LB CAPACITY)
 - 2.1. SIDE BAR TO BE 1 1/2" DIA. BY 30" STRAIGHT 9.5" MOUNTED AT 30-50 DEGREE ANGLE SLOPING UPWARDS AWAY FROM TOILET SEAT. LOW END TO BE MOUNTED 9" ABOVE SEAT AND 2" IN FRONT OF SEAT. PROVIDE SOLID BACK SUPPORT FOR ANCHORS. PROVIDE 1 1/2" CLEAR BETWEEN BAR AND WALL.
 - 2.2. BACK BAR TO BE 1 1/2" DIA. BY 24" STRAIGHT 5.5" MOUNTED HORIZONTALLY ON WALL BEHIND TOILET SEAT AT 2'-9" A.F.F. OR 5 1/8" ABOVE TOP OF TANK. PROVIDE SOLID BACK SUPPORT FOR ANCHORS. PROVIDE 1 1/2" CLEAR BETWEEN BAR AND WALL.



SERVICE UNIT HEIGHTS



DO NOT SCALE DRAWINGS. DRAWINGS MUST BE READ IN CONJUNCTION WITH WRITTEN SPECIFICATIONS. ALL WORK SHALL BE DONE OUT ACCORDING TO LATEST VERSIONS OF THE ONTARIO BUILDING CODE, OTHER APPLICABLE CODES, AND ALL AUTHORITIES HAVING JURISDICTION. CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL DISCREPANCIES OR AMBIGUITIES TO THE ARCHITECT PRIOR TO ISSUANCE OF CONTRACT.

No.	DATE	REVISION
1	10/18/11	FOR PERMIT

gb architect inc.
430 ONTARIO STREET
STRATFORD, ONTARIO, N5A 3J2
PHONE (519) 272-0073 FAX (519) 272-1433

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The Architect above has exercised responsible control with respect to design activities. The Architect's seal number is their BCDN number.

FREY
BUILDING CONTRACTORS
HAWKESVILLE, ON N0B 1X0
P (519) 699-4441
F (519) 699-4875
www.freybc.com

LINCOLN ROAD CHAPEL

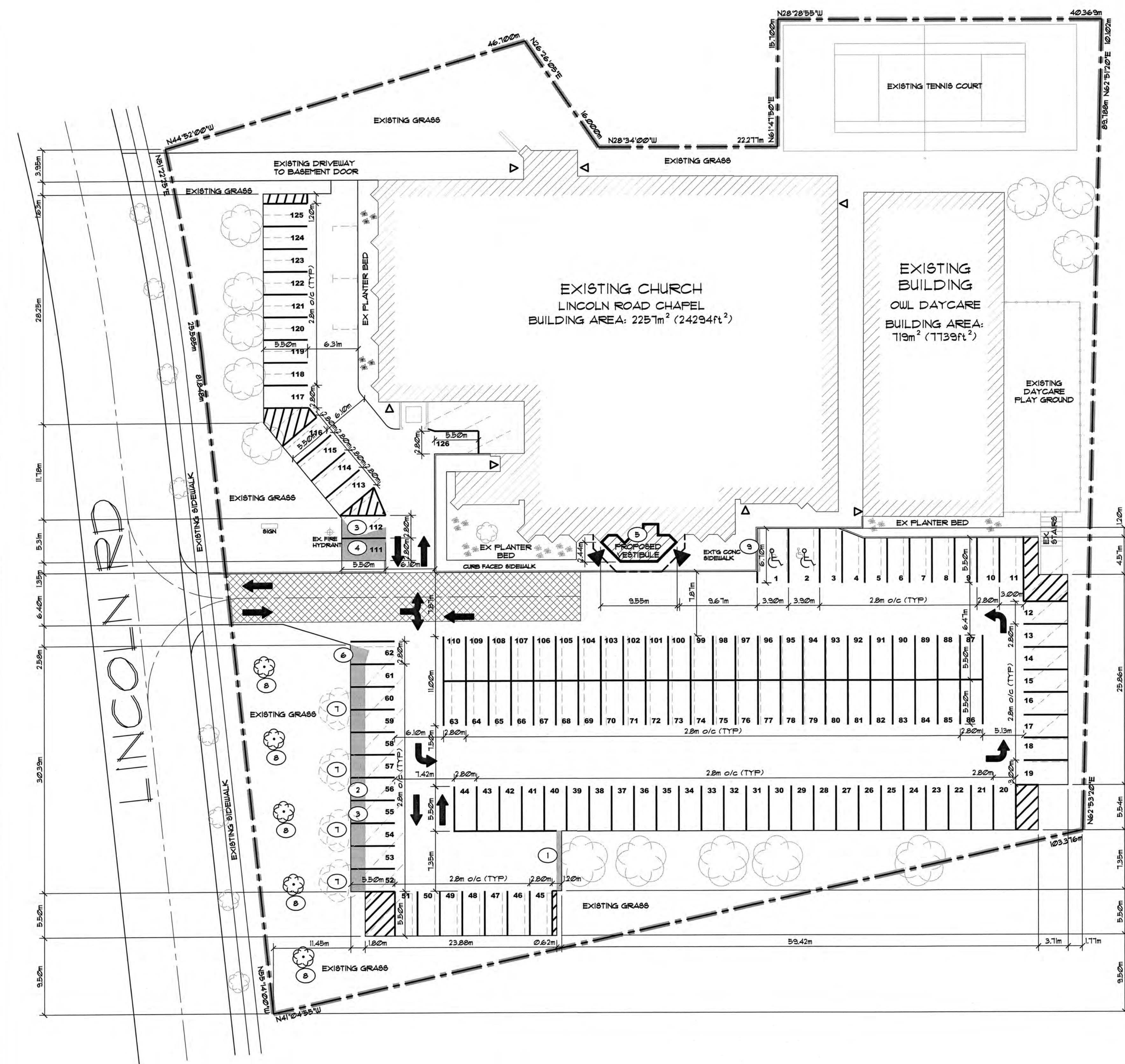
RENOVATIONS	
145 LINCOLN ROAD, WATERLOO, ONTARIO	
PRINT DATE:	October 19, 2011
DATE:	October 19, 2011
DRAWN BY:	DMM
CHECKED BY:	G.R.B.
SCALE:	NTS
PROJECT No.:	11-054

COVER PAGE &
OBC MATRIX
A0

gb

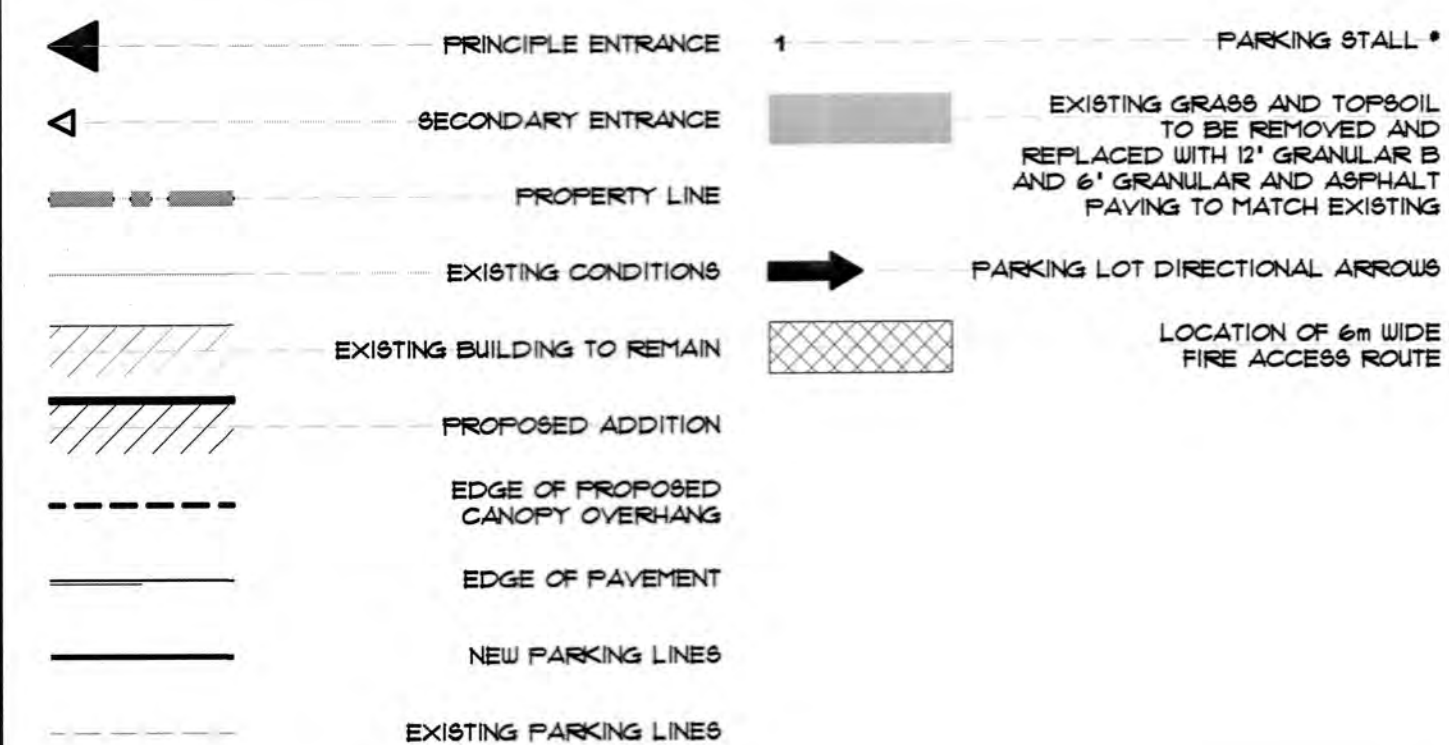
SITE PLAN

1:300



LEGEND

NTS



SITE DATA CHART

NTS

ZONING: 14B

ADDRESS: 14B LINCOLN ROAD, WATERLOO

LEGAL DESCRIPTION: GCT SUB LOT 5, FT LTB 1 TO 3, 7 TO 9,

TOTAL SITE AREA: 11 338m² (280ac)

LOT FRONTAGE: 127.4m (352'-9")

LOT DEPTH: 123.4m (339'-3")

BUILDING DATA:

- EXISTING AREA OF CHURCH BUILDING: 2257m² (24294ft²)
- ADDITIONAL AREA TO CHURCH BUILDING: 27m² (291ft²)
- EXISTING AREA OF DAYCARE BUILDING: 719m² (7739ft²)
- TOTAL AREA: 3003m² (32324ft²)
- TOTAL GROSS FLOOR AREA: 4872m² (52442ft²)
- STORIES: 2

LOT COVERAGE:

- HARD SURFACE: (CONCRETE AND ASPHALT) = 5122/11338 = 45.18%
- BUILDING: = 3203/11338 = 28.43%
- GREEN SPACE: = 3213/11338 = 28.33%

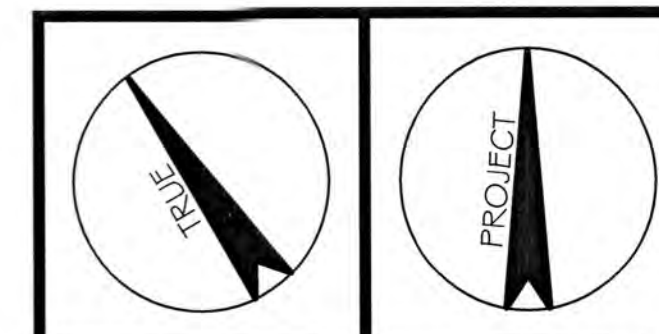
REQUIRED PARKING: 126 SPACES AS MINOR VARIANCE 145/102 ± 144/11

PROVIDE PARKING: 124 SPACES ± 2.2m x 5.5m
2 BARRIER FREE SPACES ± 3.3m x 6.1m

NOTES

NTS

- 1 PARKING LOT EXTENDED 0.6m TO ALLOW A 12m HAMPERHEAD ON DEAD END PARKING ROW
- 2 PARKING LOT EXTENDED 12m CLOSER TO LINCOLN ROAD TO ALLOW PARKING LOT TO COMPLY TO CURRENT BY-LAW STANDARDS, ADDITIONAL ASPHALT AREA OF 84.1m²
- 3 REMOVE EXISTING GRASS AND TOPSOIL AND REPLACE WITH 450mm B GRAVEL AND 150mm A GRAVEL AND ASPHALT PAVING TO MATCH EXISTING
- 4 PARKING LOT TO BE EXTENDED AS SHOWN TO ALLOW FOR 2 ADDITIONAL PARKING SPACES ON EXISTING GRASS AREA
- 5 NEW 212m² FRONT ENTRANCE AND VESTIBULE ADDITION
- 6 EXISTING FLAG POLE TO BE REMOVED
- 7 EXISTING TREE TO BE REMOVED
- 8 5 NEW TREES ALONG LINCOLN ROAD PROPERTY LINE
- 9 CUT BACK EXISTING SIDEWALK 0.5m TO ALLOW FOR NEW CURB AND ASPHALT EXTENSION



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STRATFORD, ONTARIO. N5A 3J2
PHONE (519) 272 0073 FAX (519) 272 1433

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The Architect above has exercised responsible control with respect to design activities. The Architect's seal number is their BCDN number.



LINCOLN ROAD
CHAPEL

RENOVATIONS

15 LINCOLN ROAD,
WATERLOO, ONTARIO

PRINT DATE:	October 19, 201
DATE:	October 18, 201
DRAWN BY:	DMM
CHECKED BY:	G.R.B.
SCALE:	1:300
PROJECT No.:	11-054

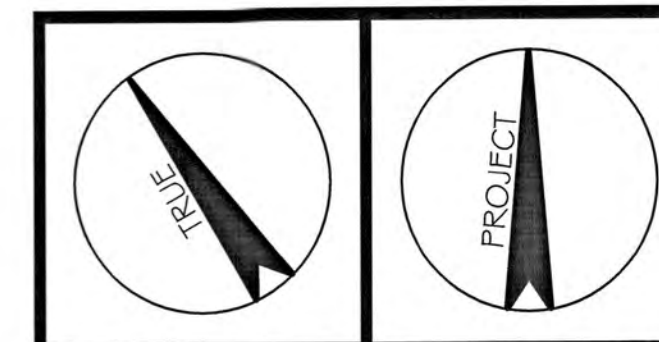
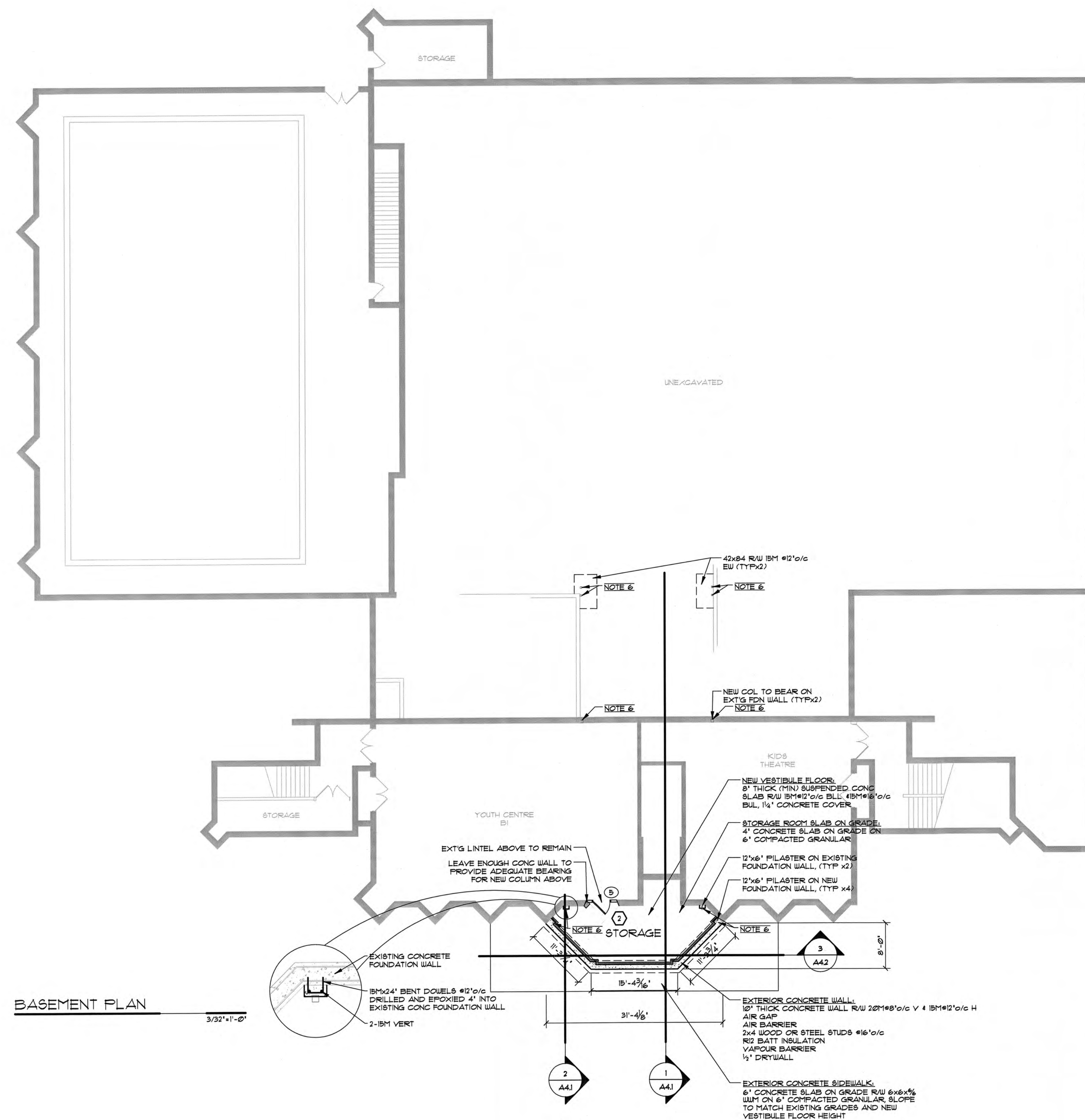
SITE PLAN

A1.1

- gb

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CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL DISCREPANCIES OR AMBIGUITIES TO THE ARCHITECT PRIOR TO ISSUANCE OF CONTRACT.

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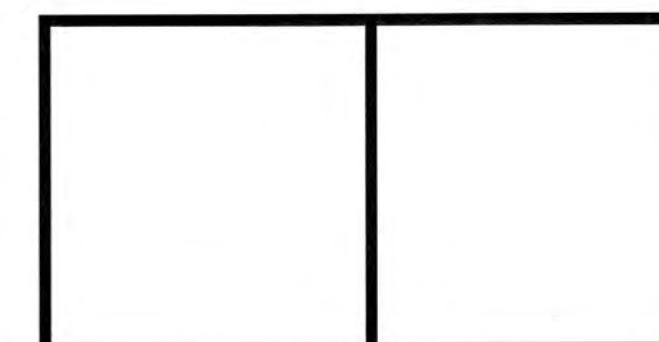


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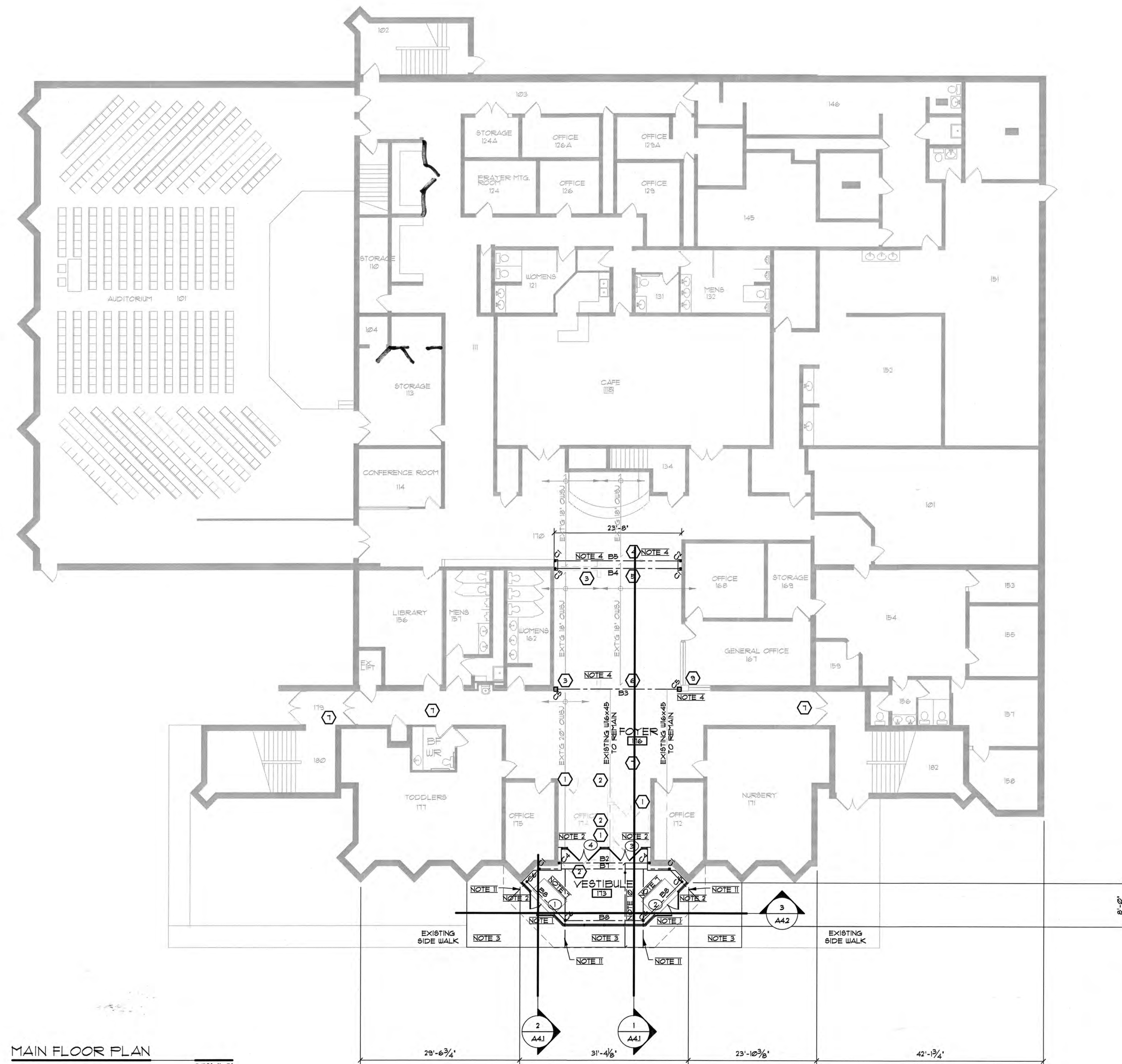
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BUILDING CONTRACTORS
HAWKESVILLE, ON N0B 1X0
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F (519) 699-4875
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LINCOLN
ROAD CHAPEL

RENOVATIONS	
145 LINCOLN ROAD, WATERLOO, ONTARIO	
PRINT DATE:	October 19, 2011
DATE:	October 19, 2011
DRAWN BY:	DMM
CHECKED BY:	G.R.B.
SCALE:	3/32" = 1'-0"
PROJECT No.:	11-054

BASEMENT
FLOOR PLAN
A2.1
gb

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MAIN FLOOR PLAN

$$3/32' = 1' - \emptyset$$

TYPICAL NOTES:

- ALL INTERIOR WALLS ARE 3½" STEEL STUDS @ 16" O/C C/W ½" DRYWALL BOTH SIDES UNO (SSI)
- ALL ANGLES 45° UNO

NOTES:

- NOTE 1 ALL EXIST. DOORS TO HAVE A MAX. 1 3/4" STEP DOWN ON TO A MIN. 48"x48" CONC. PAD.
- 1/2" MAX. DROP FROM DOOR TO SIDE WALK LANDING AT BARRIER FREE EXIT. DOORS (TYPICAL) C/A BARRIER FREE SILL.
- NOTE 2 POWER OPERATING DOOR TO BE EQUIPPED FOR BARRIER FREE ACCESS
- NOTE 3 NEW CONCRETE SIDEWALK, MATCH INTO EXISTING GRADES AND FRONT DOOR
- NOTE 4 PATCH AND MAKE GOOD FLOOR TO MATCH EXISTING WHEREVER STRUCTURE IS REMOVED
- NOTE 5 PATCH IN EXTERIOR WALL TO MATCH EXISTING. USE BRICK REMOVED FROM BUMP OUT PATCH IN EXTERIOR
- NOTE 6 NEW LOADBEARING COLUMN ABOVE
- NOTE 7 RECESSED ALUMINUM FOOT GRILL
- NOTE 8 RELOCATED WINDOW FROM 'BUMP OUT' TO BE REMOVED; EXISTING LINTEL TO REMAIN
- NOTE 9 RELOCATED WINDOW FROM 'BUMP OUT' TO BE REMOVED; NEW LINTEL CUT INTO EXISTING MASONRY CAVITY WALL
- NOTE 10 PRE-ENG ROOF JOIST SYSTEM, SEE LAYOUT AND DESIGN BY JOIST SUPPLIER
- NOTE 11 APPROXIMATE LOCATION OF FLUSH GIRDER BEAMS, (SEE LAYOUT BY PRE-ENG FLOOR SUPPLIER)
- NOTE 12 EXISTING MASONRY LINTEL TO REMAIN, INFILL WALL AROUND NEW WINDOW, BRICK TO BE SUPPORTED BY 3" DIA. X 12' LONG LINTEL, 6" END BEARING, EACH END

LEGEND:

- | | |
|---|--|
|  | EXISTING CONSTRUCTION |
|  | EXISTING STRUCTURE
TO BE REMOVED |
|  | BATT INSULATION |
|  | NEW STEEL BEAM |
|  | FOUNDATION WALL DROPPED 8'
TO ALLOW FOR FOR FLOOR SLAB
OVER FOUR |
|  | DEMOLITION NOTE * |
|  | DOOR * |
|  | ROOM * |

DEMOLITION NOTES:

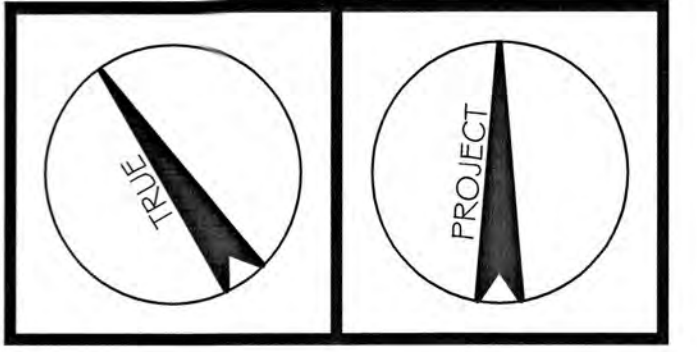
- | | |
|----|---|
| 1 | REMOVE EXISTING DOOR |
| 2 | REMOVE EXISTING OFFICE WALLS |
| 3 | REMOVE EXISTING VIEW WALLS AND REPLACE WITH NEW STEEL BEAM AND COLUMN |
| 4 | REMOVE EXISTING COLUMN AND PATCH IN FLOOR TILE TO MATCH EXISTING |
| 5 | REMOVE AND REPLACE EXISTING BEAM, MOVE BEAM UP TO MINIMIZE BULKHEAD. |
| 6 | REMOVE AND REPLACE EXISTING BEAM WITH HEAVIER CLEAR SPAN BEAM, REMOVE AND REINSTALL EXISTING MECHANICAL AS REQUIRED |
| 7 | REMOVE EXISTING FLOOR TILE DOWN TO SUB-FLOOR, REPLACE WITH NEW TILE TO MATCH EXISTING Foyer |
| 8 | EXISTING LOAD BEARING BEAM TO BE REMOVED, REMOVE NON-LOADBEARING BLOCK ABOVE PRIOR TO BEAM REMOVAL |
| 9 | REMOVE COLUMN AND REPLACE WITH NEW COLUMNS AS SPECIFIED |
| 10 | REMOVE EXISTING "BUMP OUT" AND WINDOW |
| 11 | REMOVE EXISTING NON-LOADBEARING BLOCK WALLS AND REPLACE WITH FRAMED WALLS, REINSTALL MILL WORK AFTER |
| 12 | REMOVE EXISTING H1 DOUBLE DOOR AND REPLACE W/ NEW H1 DOOR C/W SIDE LITES |

BEAM SCHEDULE:

- | | |
|----|---|
| B1 | W16x31 |
| B2 | W16x62 |
| B3 | W18x234 |
| B4 | W12x35 |
| B5 | W12x12 |
| B6 | W8x18 C/W 8" BOTTOM PLATE, EXTEND
LINTEL 6" BEYOND OPENING ON EACH END |
| B7 | W8x58 |
| B8 | W8x28 |

COLUMN SCHEDULE:

- | | |
|----|--|
| C1 | HSS 4x4x $\frac{1}{4}$ C/W 12"x10"x10"
BASEPLATE, 4-3/4" x AB |
| C2 | HSS 4x4x $\frac{1}{4}$ C/W 12"x10"x10"
BASEPLATE, 4-3/4" x AB |
| C3 | HSS 3/2x3/2x $\frac{1}{4}$ C/W 12"x10"x10"
BASEPLATE, 4-3/4" x AB |
| C4 | HSS 5x5x $\frac{1}{4}$ C/W 12"x10"x10" BASEPLATE, 4-3/4"
DIA HAS RODS W/ HILTI HY 150 ADHESIVE |
| C5 | HSS 2x2x $\frac{1}{4}$ C/W 20"x10"x10" BASEPLATE,
4-3/4" x AB HAS RODS W/ HILTI HY 150 ADHESIVE |
| C6 | HSS 4"x6"x $\frac{1}{4}$ C/W 12"x10"x10"
BASEPLATE, 4-3/4" x AB |

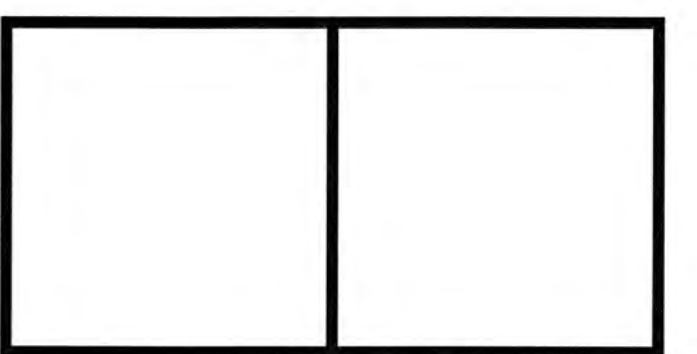


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BODS Number 4217
as per requirements of the Ministry of Municipal
Affairs & Housing Bill 124."

The Architect above has exercised responsible control with respect to design activities. The Architect's seal number is their BCDN number.



LINCOLN
ROAD CHAPEL

RENOVATIONS

145 LINCOLN ROAD,
WATERLOO, ONTARIO

PRINT DATE:	October 19, 2011
DATE:	October 19, 2011
DRAWN BY:	DMM
CHECKED BY:	G.R.B.
SCALE:	3/32"=1'-0"
PROJECT No.:	11-054

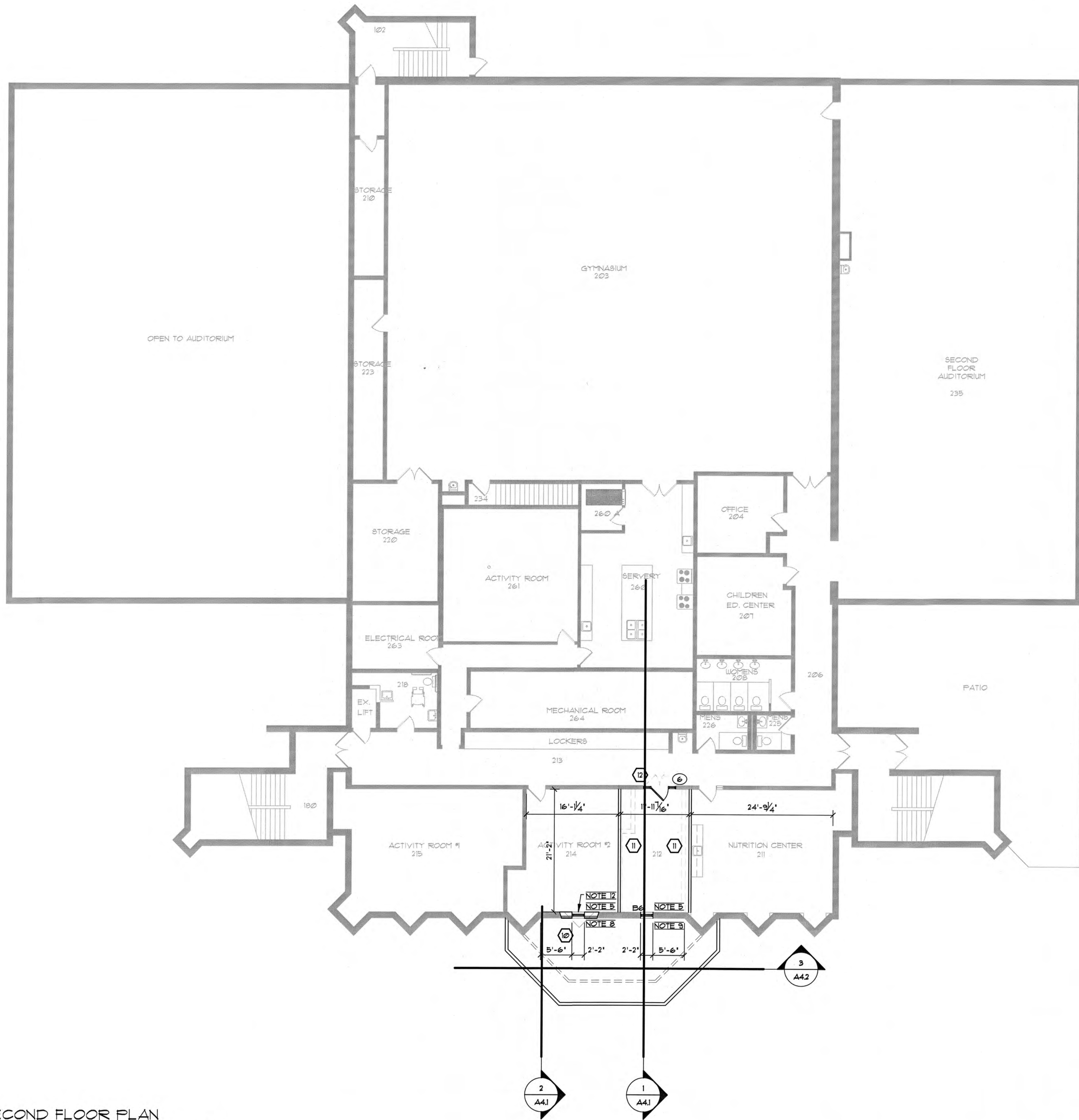
MAIN FLOOR PLAN

A2.2

gb

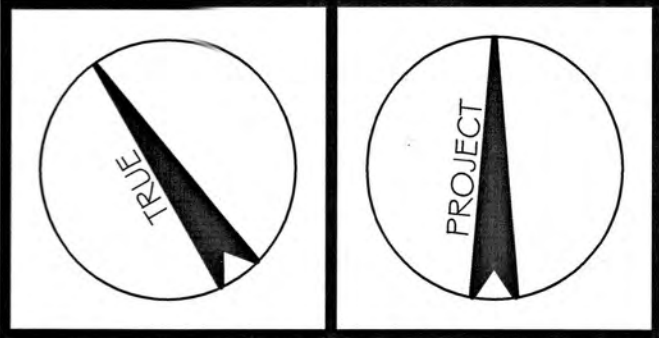
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SECOND FLOOR PLAN
3/32"=1'-0"

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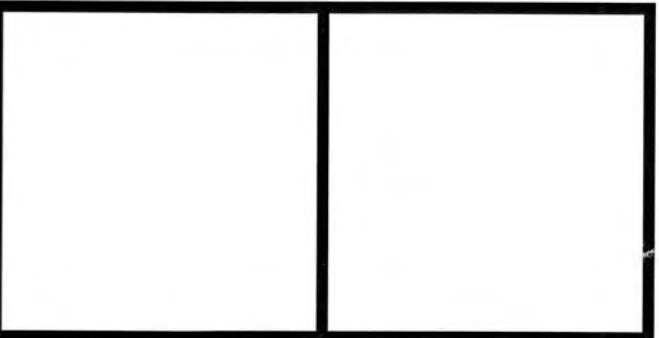


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gb architect inc.
430 ONTARIO STREET
STRATFORD, ONTARIO, N5A 3J2
PHONE (519) 272 0073 FAX (519) 272 1433

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P (519) 699-4641
F (519) 699-4675
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LINCOLN
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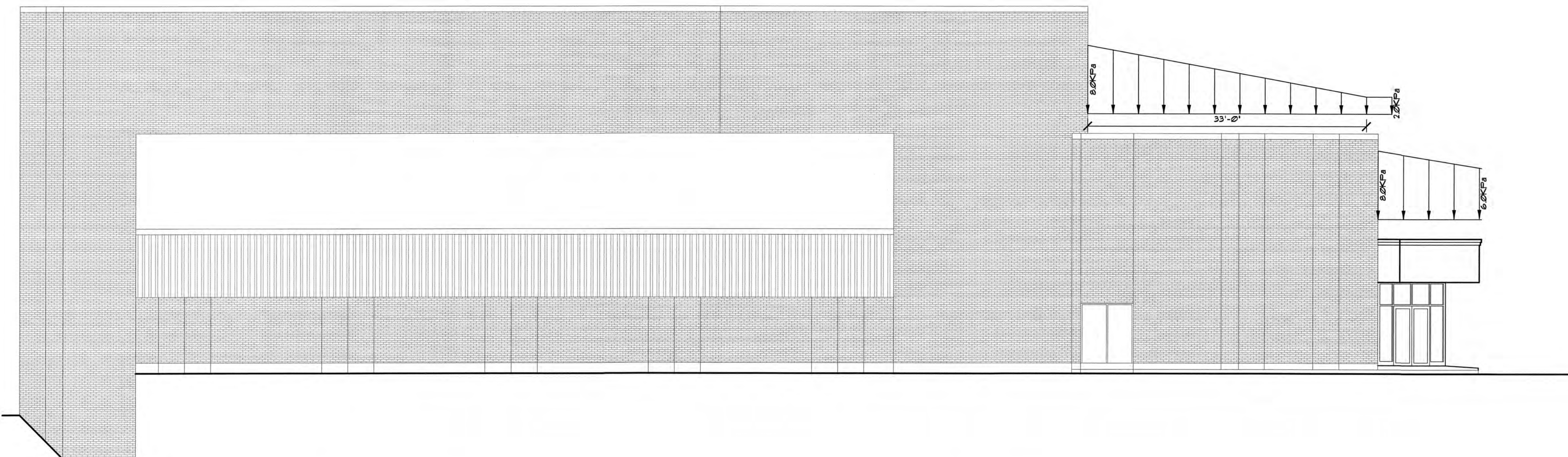
SECOND
FLOOR PLAN
A2.3
gb

gb



SOUTH ELEVATION

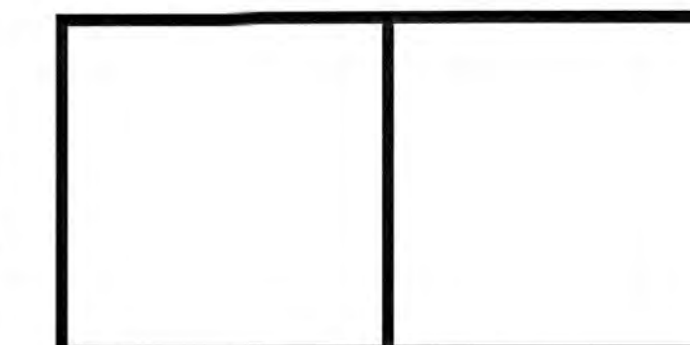
1/8"=1'-0"



WEST ELEVATION

1/8"=1'-0"

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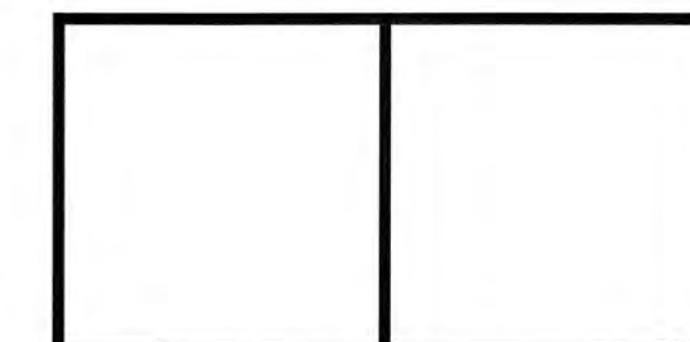


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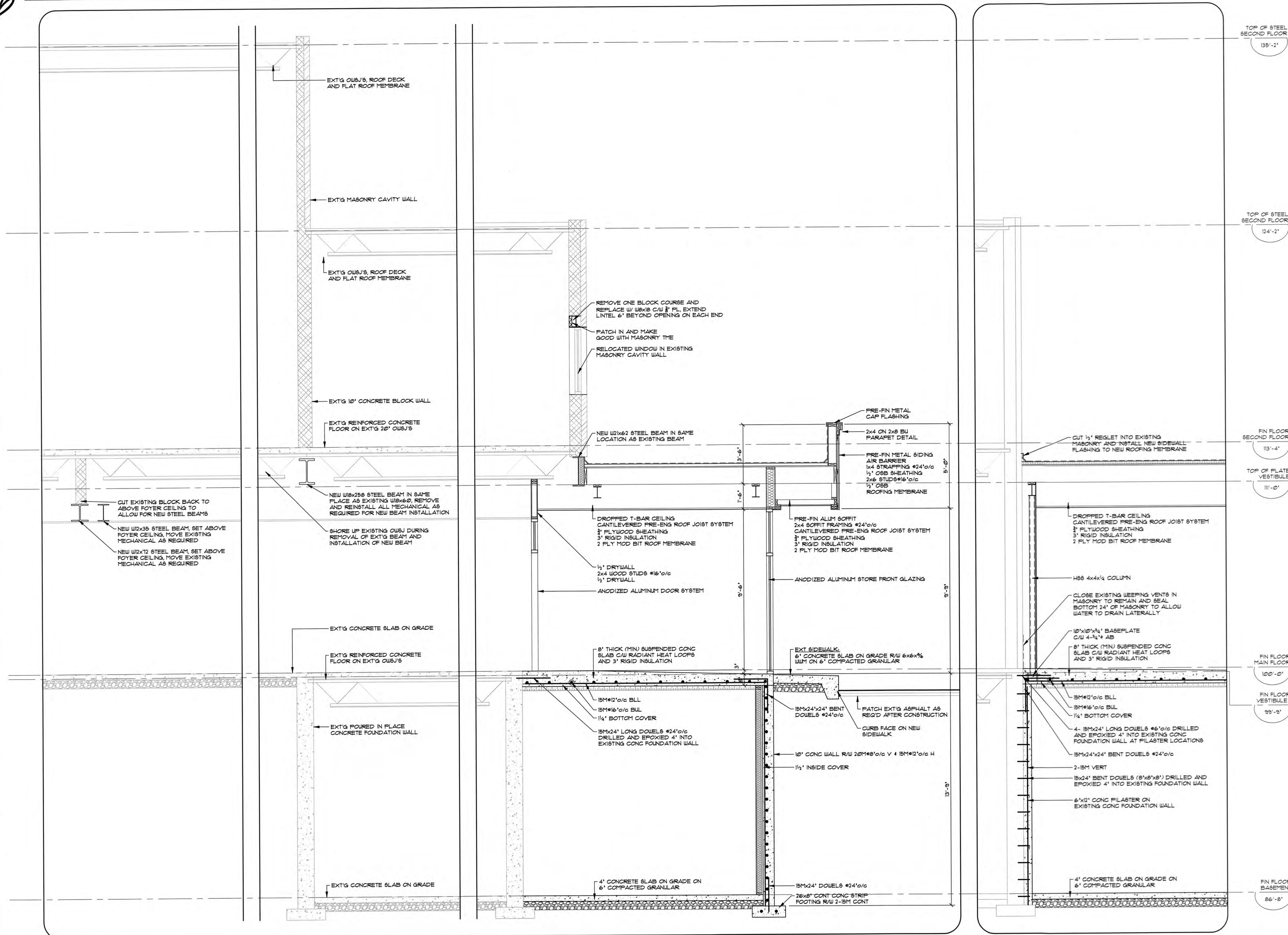


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ROAD CHAPEL

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gb architect inc.
430 ONTARIO STREET
STRATFORD, ONTARIO, N5A 3J2
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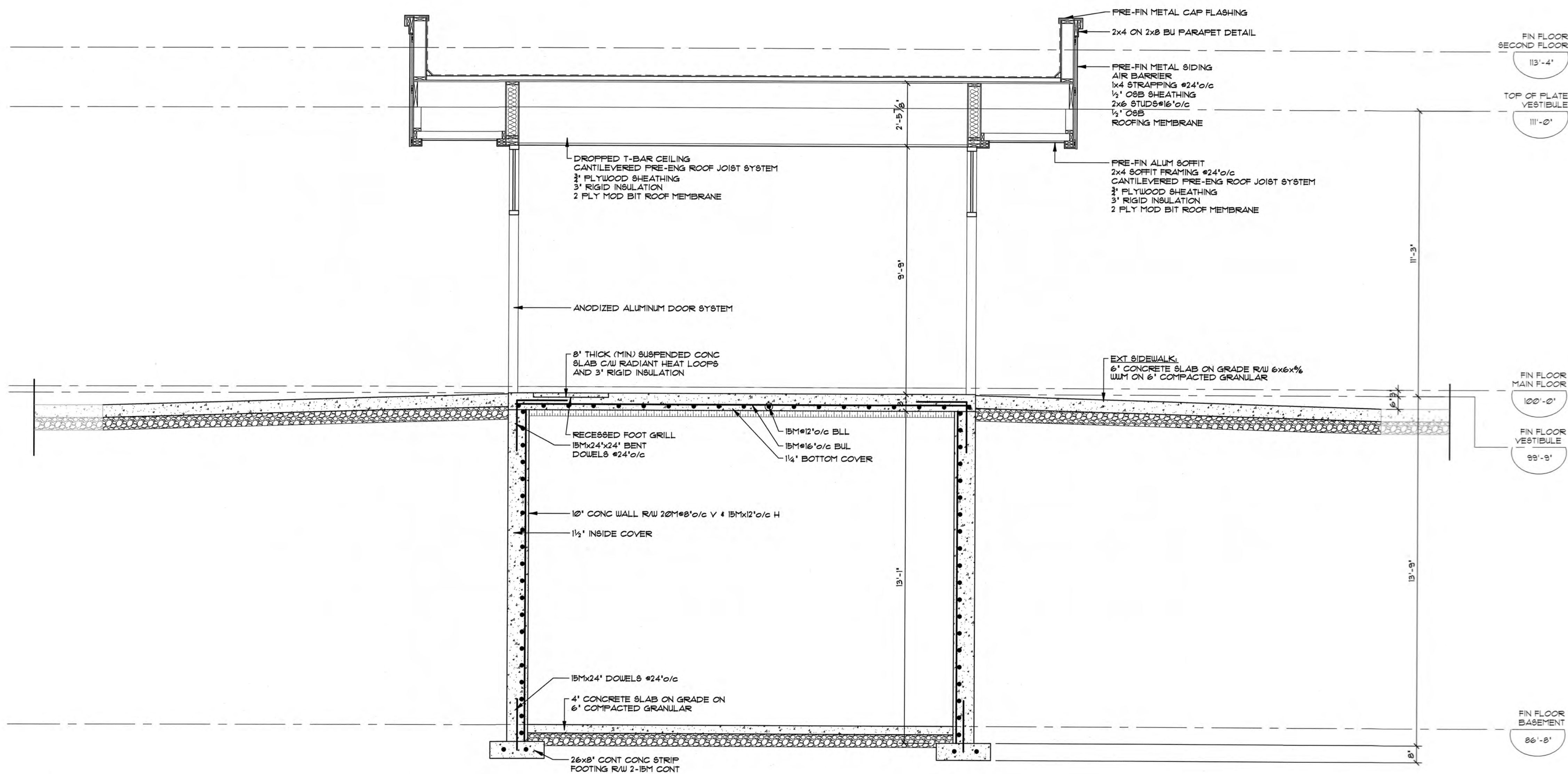
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LINCOLN ROAD CHAPEL

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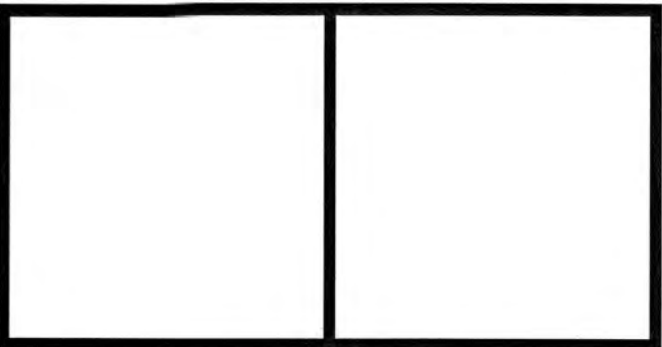
BUILDING SECTIONS
A4.1
gb

gb



3 BUILDING SECTION
A4.1 3/8"=1'-0"

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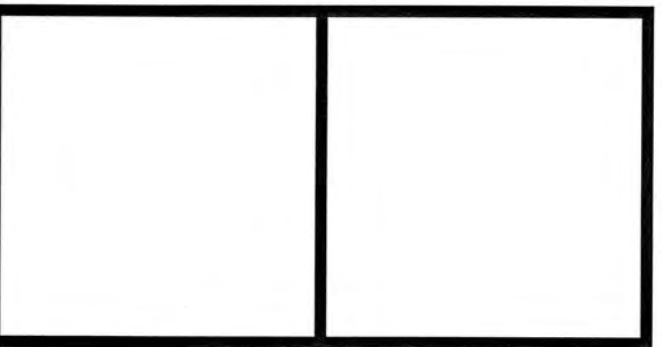


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BUILDING
SECTION
A4.2
gb

gb

DOOR SCHEDULE												
NO.	SIZE	WALL	FRAME			DOOR			HANDING	RATING	HARDWARE	COMMENTS
			MATERIAL	TYPE	FINISH	MATERIAL	TYPE	FINISH				
01	2'-3'-0" x 7'-0"	-	ALUM	B	BR ANOD	ALUM	2	BR ANOD			ALL DOORS TO HAVE BF WING HANDLED HARDWARE	
02	2'-3'-0" x 7'-0"	-	ALUM	B	BR ANOD	ALUM	2	BR ANOD			CLOSER, OPENER, PANIC SET	FRONT ENTRANCE, (SITE VERIFY COLOUR)
03	2'-3'-0" x 7'-0"	-	ALUM	C	BR ANOD	ALUM	2	BR ANOD			CLOSER, OPENER, PANIC SET	FRONT ENTRANCE, (SITE VERIFY COLOUR)
04	2'-3'-0" x 7'-0"	-	ALUM	C	BR ANOD	ALUM	2	BR ANOD			PUSH/PULL, OPENER	INTERIOR VESTIBULE, (SITE VERIFY COLOUR)
05	3'-0" x 7'-0"	3'-5/8" STL STUD	HM	A	PAINT	HM	1	PAINT			PUSH/PULL, OPENER	INTERIOR VESTIBULE, (SITE VERIFY COLOUR)
06	2'-3'-0" x 7'-0"	10' CONC BLK	HM	D	PAINT	SCUD	1	PAINT			LOCKSET	STORAGE
											LOCKSET	OFFICE, FRAME TO MATCH EXISTING OPENING

ROOM FINISH SCHEDULE																											
NO.	ROOM NAME	FLOOR					BASE					WALLS					CEILING					CEILING HEIGHT	REMARKS				
		CARPET	VINYL COMPOSITE TILE (VCT)	PORCELAIN TILE	CONCRETE	RUBBER TREADS		CARPET	PORCELAIN TILE	RUBBER	NONE			PAINTED DRYWALL	PAINTED BLOCK	NONE			PAINTED DRYWALL	CALIFORNIA STUCCO	TEXTUM	DROPPED 2'x4' T-BAR	DROPPED 2'x2' T-BAR	UNFINISHED CONC	UNFINISHED DRYWALL		
	BASEMENT																										
	STORAGE				●					●					●								●			U/S FLOOR	
	MAIN FLOOR																										
173	VESTIBULE		●					●						●								●				10'-0" AFF	
176	FOYER (LOWER)		●					●						●	●							●				TIME	

GENERAL NOTES:

- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FOLLOWING NOTES SHALL GOVERN.
- ALL WORK ON THIS PROJECT SHALL CONFORM TO THE 2006 ONTARIO BUILDING CODE (OBC 2006), ANY LOCAL REGULATIONS AND BYLAWS, AND THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA) AND CURRENT REGULATIONS FOR CONSTRUCTION PROJECTS. ALL CODES AND STANDARDS SHALL BE THOSE REFERENCED IN OBC 2006.
- ALL STANDARDS ARE TO BE THE LATEST EDITIONS, DOCUMENT NUMBERS, ETC AS PER OBC 2006 DIVISION B, T.1.3.1.2. WHERE DISCREPANCIES EXIST BETWEEN OUR DRAWINGS AND T.1.3.1.2, THE TABLE SHALL GOVERN UNLESS NOTED OTHERWISE.
- THE SET OF DRAWINGS SUPERSEDES AND REPLACES ALL PREVIOUS DRAWINGS.
- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND VERIFY ALL DIMENSIONS GIVEN ON STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT BEFORE PROCEEDING WITH THE WORK.
- IF ANY STRUCTURAL DISCREPANCIES ON THE DRAWINGS EXIST, THE MOST STRINGENT SHALL APPLY.
- DRAWINGS ARE NOT TO BE SOLED.
- CONSTRUCTION AND SHOP DRAWINGS REVIEW MUST BE PROVIDED AS PER CODE.
- SHOP DRAWINGS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER WHERE REQUIRED AND REVIEWED BY THE CONTRACTOR FOR DIMENSIONAL CORRELATION WITH THE DRAWINGS AND FIELD CONDITIONS PRIOR TO SUBMITTING TO TACOMA ENGINEERS. FABRICATION OF ELEMENTS ON SHOP DRAWINGS MAY NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY TACOMA ENGINEERS FOR THE FOLLOWING:
 - ROOF TRUSSES (CERTIFIED BY A PROFESSIONAL ENGINEER)
 - STRUCTURAL STEEL Erection DRAWINGS (CONNECTIONS CERTIFIED BY A PROFESSIONAL ENGINEER)
 - MANUFACTURED WOOD PRODUCTS (CERTIFIED BY A PROFESSIONAL ENGINEER)
 - REINFORCING STEEL
- CONSTRUCTION LOADINGS SHALL NOT EXCEED THE SPECIFIED DESIGN LOADS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO KEEP STRUCTURE PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION. ANY BRACING MEMBERS SHOWN ON THE DRAWINGS ARE REQUIRED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR ERECTION PURPOSES.
- OBC 2006 DIVISION C SECTION 1.2.2 REQUIRES GENERAL REVIEW OF THE CONSTRUCTION BY THE DESIGN PROFESSIONAL. TACOMA ENGINEERS SHALL BE GIVEN A MINIMUM OF 48 HOURS NOTICE AT (519)755-2000 BY THE CONTRACTOR FOR THE FOLLOWING REQUIRED CONSTRUCTION REVIEWS:
 - FOUNDATIONS - PRIOR TO POURING FOOTINGS
 - STRUCTURAL FRAMING (STRUCTURAL STEEL / WOOD FRAMING) - PRIOR TO COVERING WITH INTERIOR FINISHES.
 - FINAL FRAMING - UPON COMPLETION OF ALL STRUCTURAL ELEMENTS.

DESIGN PARAMETERS:

- DESIGN LOADS ARE UNFACTORED UNLESS NOTED OTHERWISE.
 - CLIMATIC DESIGN DATA (WATERLOO):
Snow Load $S_e = 2.0 \text{ kPa}$
Wind Pressure $q_{30} = 0.37 \text{ kPa}$
- BUILDING IMPORTANCE CATEGORY = Normal
- WIND IMPORTANCE FACTOR $I_w = 1.0$
- INTERNAL PRESSURE CATEGORY = 2
- THE STRUCTURE HAS BEEN DESIGNED TO RESIST WIND FORCES IN ACCORDANCE WITH THE PROCEDURE DESCRIBED IN THE OBC 2006 AND THE NATIONAL BUILDING CODE OF CANADA (NBC) STRUCTURAL COMMENTARY 1. UNFACTORED WIND UPLIFT LOADS W_u (kPa):
IN ACCORDANCE WITH NBC STRUCTURAL COMMENTARY 1, FIGURE 1-9.
- ROOF IMPORTANCE FACTOR $I_s = 1.0$
- ROOF IMPORTANCE FACTOR $I_s = 0.9$
 $S = \ln[Se(Ce/Ce(Co)+S)]$
 $S = \ln[2.0(1.0)(1.0)(1.0)+0.4]$
 $S = 2.0 \text{ kPa (11.7 psf)}$
BASIC CASE
REFER TO PLANS FOR AREAS AND MAGNITUDE OF BUILT UP SNOW LOADS.
THE ROOF STRUCTURE HAS BEEN DESIGNED CONFORMING TO OBC 4.1.4.4.(3). ADDITIONAL WATER LOADS (STORM WATER RETENTION) HAVE NOT BEEN INCLUDED IN THE DESIGN.
ROOF DEAD LOAD $= 0.75 \text{ kPa (15.7 psf) (CONCRETE)}$
 $= 1.0 \text{ kPa (20.0 psf) (EXISTING ROOF)}$
- MAIN FLOOR OCCUPANCY (LIVE)
DEAD LOAD $= 4.8 \text{ kPa (100 psf)}$
DEAD LOAD $= 4" \text{ COMPOSITE + MECH. + PARTITION}$
 $DL = 2.0 + 0.5 + 1.0$
 $DL = 3.5 \text{ kPa (73 psf)}$
- ADDITIONAL DEAD LOAD ALLOWANCE SHALL BE INCLUDED IN ADDITION TO THE ABOVE LOADS FOR:
 - PIPES IN EXCESS OF 75mm (3") IN DIAMETER CARRYING FLUIDS (SPRINKLERS)
 - ROOF TOP MECHANICAL UNITS

FOUNDATIONS:

- ALL FOOTINGS SHALL BE FOUNDATION IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORT; NO GEOTECHNICAL REPORT HAS YET BEEN SUPPLIED FOR THIS PROJECT. ALL BEARING PRESSURES HAVE BEEN ASSUMED AND MUST BE VERIFIED ON SITE, PRIOR TO PLACING FOOTINGS (PREFERABLY PRIOR TO COMMENCING CONSTRUCTIONS).
- DESIGN BEARING PRESSURES ON UNDISTURBED NATIVE SOIL, OR APPROVED ENGINEERED FILL ARE AS FOLLOWS:
SLS $(\text{kPa and USL (psf)})$ LOCATIONS:
150 (3000)225 (4500)ALL FOOTINGS
- SOFT AREAS UNCOVERED DURING EXCAVATION SHALL BE SUB-EQUALIZED TO SOUND MATERIAL AND FILLED WITH CLEAN, FREE DRAINING GRANULAR SOIL COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY (SPD), PLACED UNDER THE DIRECTION AND SUPERVISION OF A GEOTECHNICAL ENGINEER.
- SOIL BEARING CAPACITY, SITE CLASS, AND SOIL COEFFICIENTS SHOWN ON THE DRAWINGS (K_o , K_u , DENSITY, ETC) SPECIFIED MUST BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF FOUNDATIONS. ANY NON-CONFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEER.
- LOCATE ALL FOOTINGS AND PIER CENTRALLY UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- PLACE FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 1200mm (48") BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
- MAINTAIN UNSUPPORTED SIDES OF EXCAVATION ONLY IF SAFE INCLOSURE OF THE SIDES OF THE EXCAVATION IS PROVIDED IN ACCORDANCE WITH THE SOIL ENGINEERS RECOMMENDATIONS. IF REQUIRED, ERECT MAINTAIN AND REMOVE A SUPPORTING SHORING SYSTEM ALONG THE SIDES OF THE EXCAVATION, DESIGNED BY A PROFESSIONAL ENGINEER, IN ACCORDANCE WITH THE SOILS REPORT AND OBC.
- PROTECT SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOOTINGS.
- SHOULD UNDERGROUND WATER BE ENCOUNTERED, PROVIDE DRAINING FACILITIES TO KEEP WATER LEVEL BELOW FOOTINGS. REFER TO SOIL ENGINEERS RECOMMENDATIONS FOR REMEDIAL MEASURES.

CONCRETE:

- ALL REINFORCED CONCRETE ELEMENTS ARE DESIGNED USING THE LIMIT STATES DESIGN METHOD IN ACCORDANCE WITH CAN/CSA-A23.3.
- CONCRETE WORK SHALL CONFORM TO CAN/CSA-A23.1.2.3 FOR MATERIALS AND WORKMANSHIP.
- CLASSES OF CONCRETE SHALL BE PLACED IN THE LOCATIONS NOTED:
 - EXTERIOR STRUCTURALLY REINFORCED SLABS
 - EXTERIOR UNREINFORCED SLABS ON GRADE, CURBS
 - EXTERIOR WALLS, COLUMNS AND PIERS
 - INTERIOR FLOOR SLABS
 - PIERS
- CLASSES OF CONCRETE SHALL HAVE THE FOLLOWING MIX REQUIREMENTS:

CLASS OF CONCRETE	STRENGTH (V.C. BASED ON ESTIMATED STRENGTH)	MIN
C-15	15 MPa	0.40
C-20	20 MPa	0.40
C-25	25 MPa	0.40
C-30	30 MPa	0.40
C-35	35 MPa	0.40
C-40	40 MPa	0.40
C-45	45 MPa	0.40
C-50	50 MPa	0.40
C-55	55 MPa	0.40
C-60	60 MPa	0.40
C-65	65 MPa	0.40
C-70	70 MPa	0.40
C-75	75 MPa	0.40
C-80	80 MPa	0.40
C-85	85 MPa	0.40
C-90	90 MPa	0.40
C-95	95 MPa	0.40
C-100	100 MPa	0.40
- ADJUST AIR ENTRAINMENT PERCENTAGE FOR AGGREGATE SIZE BASED ON A23.1-04 TABLE 4.
- CONCRETE DESIGN IS BASED ON THE ABOVE MIX REQUIREMENTS. PHYSICAL PROPERTIES (SLUMP, AGGREGATE SIZE, ETC.) TO BE DETERMINED (BY OTHERS) AND SHALL NOT AFFECT REQUIREMENTS SPECIFIED.
- ALL CONCRETE TO BE TESTED SHALL BE TESTED BY A C.S.A. CERTIFIED CONCRETE TESTING LABORATORY. CONTRACTOR TO PROVIDE COPIES OF TESTING REPORTS TO TACOMA ENGINEERS. NOT LESS THAN ONE STRENGTH TEST SHALL BE MADE FOR EACH 100 m³ OF CONCRETE WITH AT LEAST ONE TEST FOR EACH CLASS OF CONCRETE USED. A MINIMUM OF THREE TESTS IS REQUIRED FOR EACH CLASS.
- USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST DURING THE FIRST THREE DAYS OF CURING.
- TAKE ADEQUATE MEASURES TO PROTECT THE CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST SEVEN DAYS AFTER CONCRETE PLACEMENT. COLD WEATHER PROTECTION IS REQUIRED FOR ALL CONCRETE PLACED WHERE IT IS FORECASTED THAT THE TEMPERATURE WILL DROP BELOW 5°C WITHIN 24 HOURS OF PLACEMENT. PROTECTION PROVIDED, INCLUDING INSULATED THERM, POLY COVERED STRIPS, SUPPLEMENTARY HEAT AND/OR CHEMICAL ADJUSTMENTS, IS TO BE SUFFICIENT TO MAINTAIN A MINIMUM CURING TEMPERATURE OF 10°C FOR 3 DAYS.
- INSTALL V-AIRATOR CONTROL JOINTS AT 6.1m (20'-0") MAXIMUM IN BOTH SIDES OF ALL WALLS. OUT BOX OF THE HORIZONTAL REINFORCEMENT AT CONTROL JOINT LOCATIONS.
- FINISH EXPOSED CONCRETE WORK AS PER ARCHITECTURAL DRAWINGS.
- WHERE CONCRETE BEARS ON STEEL BEAMS, WELD 13M x 300mm (1/2") LONG DOWELS AT 1.2m (4') O.C. TO CENTER OF TOP OF BEAM.
- DO NOT ADD WATER TO CONCRETE ON SITE.
- CALCIUM CHLORIDE OR ANY AMMUNITION FORMULATION CONTAINING CHLORIDE SHALL NOT BE USED IN CONCRETE CONTAINING REINFORCEMENT, OR IN CONCRETE CLASSIFICATIONS 3-1, 3-2, OR C-1, C-2, OR FOR PARKING STRUCTURES, FLOORS RECEIVING DRY-SHAKE METALLIC HANDRAILS, OR CONCRETE CONTAINING DENSED ALUMINA. USE ONLY IN DOSEAGE LESS THAN 2% BY WEIGHT OF CEMENT.

REINFORCING STEEL:

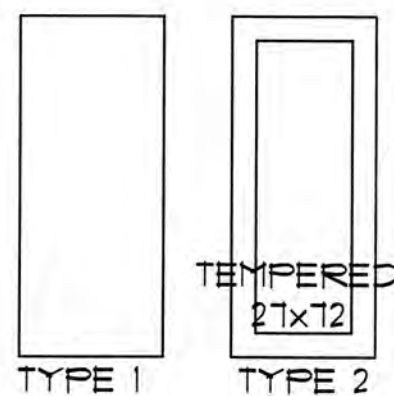
- ALL REBAR SHALL BE DEFORMED BARS CONFORMING TO G30.18 WITH A MINIMUM YIELD STRENGTH OF 400 MPa.
- REINFORCING STEEL SHALL BE FABRICATED BY A SUPPLIER EXPERIENCED IN BAR BENDING. ALL BEND DIMENSIONS SHALL CONFORM TO CAN/CSA-A23.3.
- ALL REBAR SHALL BE DETAIL, FABRICATED AND PLACED IN ACCORDANCE WITH REINFORCING STEEL MANUAL OF STANDARD PRACTICE BY REBAR, 4TH EDITION (2004).
- MAINTAIN THE FOLLOWING CLEAR CONCRETE COVER TO REINFORCEMENT (UNLESS NOTED OTHERWISE):

REBAR SIZE	CONCRETE COVER
A) 40 mm (1 1/2")	FOR CONCRETE PLACED IN FORMWORK FOR 15M OR SMALLER BARS
B) 50 mm (2")	FOR CONCRETE PLACED IN FORMWORK FOR 20M OR LARGER BARS
C) 65 mm (2 1/2")	FOR SLAB ON GRADE, TOP OF SLAB TO TOP LAYER OF STEEL
D) 75 mm (3")	FOR CONCRETE PLACED AGAINST THE EXTERIOR (BOTTOM OF FOOTINGS), INCLUDING INSULATED THERM, POLY COVERED STRIPS, SUPPLEMENTARY HEAT AND/OR CHEMICAL ADJUSTMENTS, IS TO BE SUFFICIENT TO MAINTAIN A MINIMUM CURING TEMPERATURE OF 10°C FOR 3 DAYS.
- MINIMUM BAR LAP LENGTH (25 MPa, NORMAL DENSITY, NON COATED BARS) SHALL BE:

REBAR SIZE	MINIMUM LAP LENGTH
A) 450 mm (18")	FOR 15M BARS
B) 600 mm (24")	FOR 20M BARS
C) 750 mm (30")	FOR 25M BARS
D) 1200 mm (48")	FOR 30M BARS
E) 1400 mm (56")	FOR 35M BARS
- LAP ALL HORIZONTAL BARS AT CORNERS WITH BENT DOWELS MEETING THE MINIMUM LAP REQUIREMENTS IN BOTH DIRECTIONS.

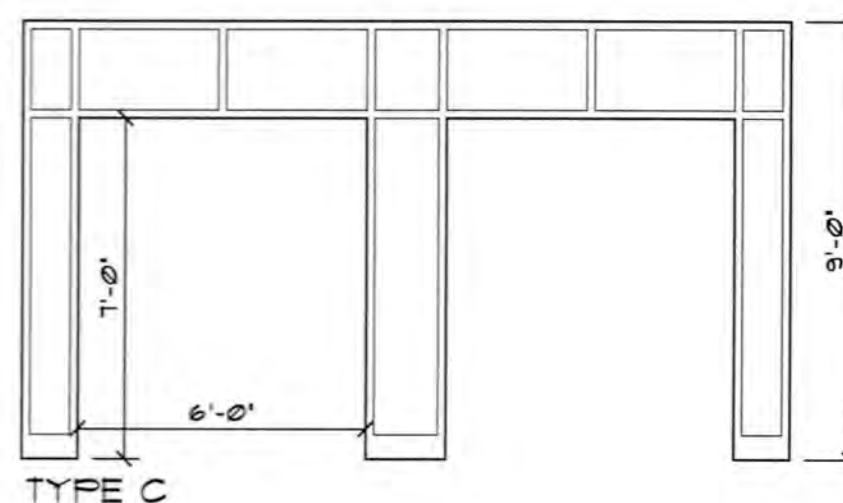
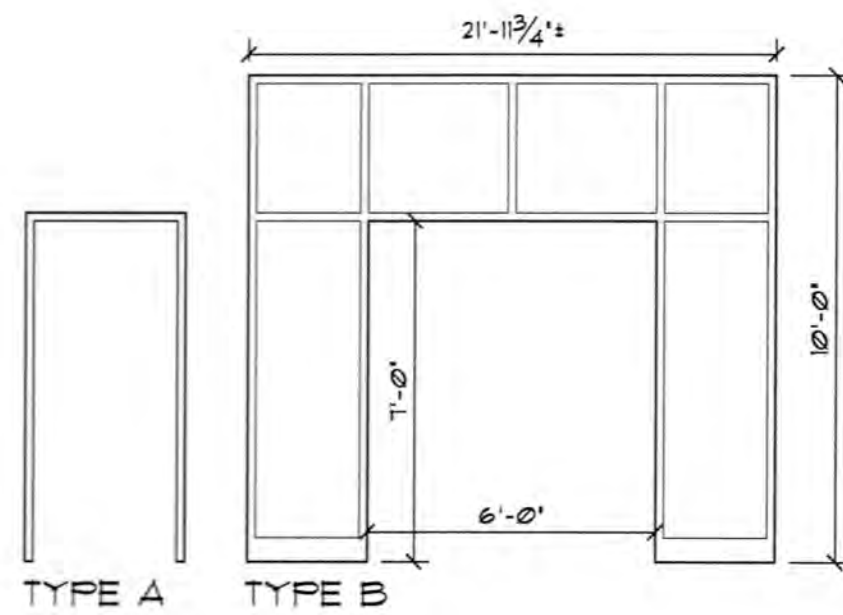
STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL ELEMENTS ARE DESIGNED USING THE LIMIT STATES DESIGN METHOD IN ACCORDANCE WITH CAN/CSA-S16.
- SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY THE PROJECT ENGINEER. STANDARD CONNECTIONS SHALL CONFORM TO THE HANDBOOK OF STEEL CONSTRUCTION. NON-STANDARD CONNECTIONS (INCLUDING MOMENT CONNECTIONS) SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
- ALL STRUCTURAL STEEL SHALL BE COMPLETED BY A FABRICATOR WHO IS A CURRENT MEMBER OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION.
- STRUCTURAL STEEL BEAMS AND COLUMNS SHALL CONFORM TO CAN/CSA G40.21 GRADE 350W UNLESS NOTED.
- STRUCTURAL STEEL CHANNELS AND ANGLES SHALL CONFORM TO CAN/CSA G40.21 GRADE 300W UNLESS NOTED.
- ALL WELDS SHALL CONFORM TO CAN/CSA G40.21 GRADE 300W (CLASS C) UNLESS NOTED.
- ALL STEEL PLATE TO BE A36 (250 MPa) MATERIAL (MINIMUM).
- WELDING SHALL CONFORM TO CSA W47.1 AND CSA W59, BY THE CANADIAN WELDING BUREAU. ALL WELDING SHALL BE COMPLETED BY CWS CERTIFIED WELDERS. THIRD PARTY WELDING INSPECTION SHALL BE PERFORMED BY FIRMS CERTIFIED TO CSA W178.1 AND W178.2.
- BOLTED CONNECTIONS SHALL BE MADE USING GRADE A325 BOLTS, UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL CONFORM TO ASTM A307.
- STRUCTURAL STEEL SHALL BE TESTED BY AN INDEPENDENT C.S.A. CERTIFIED TESTING COMPANY FOR ERECTION TOLERANCES, PLUMBNESS, ALIGNMENT, CONNECTIONS, ELEVATION, MATERIAL, AND WORKMANSHIP.
- CONTRACTOR TO PROVIDE COPIES OF TESTING REPORTS TO TACOMA ENGINEERS.
- SHALL CONFORM TO CAN/CSA G40.21 GRADE 300W UNLESS NOTED.
- COLUMN BEARING GROUT SHALL BE 35 MPa (MINIMUM), NON-SHRINK, AND 38mm (1-1/2") THICK (MINIMUM).
- ALL STRUCTURAL STEEL SHALL BE NEW MATERIAL UNLESS APPROVED BY TACOMA ENGINEERS.
- ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE COAT OF APPROVED SHOP PRIMER, TOUCHED UP AS REQUIRED ON SITE.
- STRUCTURAL STEEL MEMBERS SHALL NOT BE SPICED WITHOUT THE APPROVAL OF THE ENGINEER.
- CO-ORDINATE WITH MECHANICAL, ELECTRICAL AND ALL OTHER SUBTRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL.
- DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEERS APPROVAL.
- DEFLECTION LIMITS DESIGN ONS/L/S TO MEET LIVE LOAD/ 360 IN TOTAL LOAD/ 240.
- EXTERIOR STRUCTURAL STEEL SHALL BE PROTECTED FROM CORROSION BY HOT DIP GALVANIZING OR PRIMING + PAINTING WITH TWO COATS OF SUITABLE EXTERIOR GRADE PAINT.

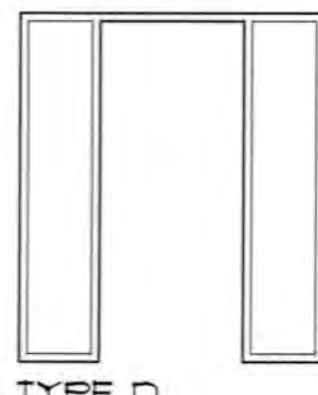


DOOR TYPE SCHEDULE

NTS



TYPE C



TYPE D

FRAME TYPE SCHEDULE

NTS

ALL WORK SHALL BE CARRIED OUT ACCORDING TO LATEST VERSIONS OF THE ONTARIO BUILDING CODE, OTHER APPLICABLE CODES, AND ALL AUTHORITIES HAVING JURISDICTION. DRAWINGS MUST BE READ IN CONJUNCTION WITH WRITTEN SPECIFICATIONS. DO NOT SCALE DRAWINGS.

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No.	DATE	REVISION
1	10/18/11	FOR PERMIT

gb architect inc.
430 ONTARIO STREET
STRATFORD, ONTARIO, N5A 3J2
PHONE (519) 272 0073 FAX (519) 272 1433

"Guy R. Belhumeur, B. Arch., OAA, MRAIC,
Principal Architect of GB ARCHITECT INC. is the
designer for this project with respect to all architectural
work identified on this drawing sheet. The Ontario
Association of Architects has assigned
Guy R. Belhumeur, B. Arch., OAA, MRAIC, as
BCOA Number 4217
as per requirements of the Ministry of Municipal
Affairs & Housing Bill 124."

The Architect above has exercised responsible control
with respect to design activities. The Architect's seal
number is their BCDN number.

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P (519) 699-4641
F (519) 699-4875
www.freybc.com

LINCOLN
ROAD CHAPEL

RENOVATIONS	
145 LINCOLN ROAD, WATERLOO, ONTARIO	
PRINT DATE:	October 19, 2011
DATE:	October 19, 2011
DRAWN BY:	DMM
CHECKED BY:	G.R.B.
SCALE:	NTS
PROJECT No.:	11-054

DOOR SCHEDULE,
ROOM SCHEDULE,
& GEN NOTES
A5.1

gb