

# PROPOSED BUILDING EXPANSION

FOR

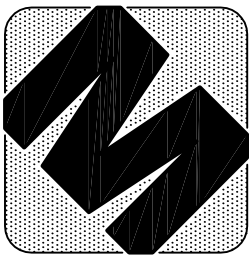
ECODEVELOPMENTS 2015 INC.

Location: 301 CROFT DRIVE, LAKESHORE, ONTARIO

LIST OF DRAWINGS			
CIVIL / LANDSCAPING		ARCHITECTURAL	STRUCTURAL
C1.1	SITE PLAN	A1.1	FLOOR PLANS AND WALL TYPES
C1.2	SITE SERVICING AND LOT GRADING PLAN	A1.2	REFLECTED CEILING PLAN, DOOR SCHEDULE AND WASHROOM DETAILS
C1.3	SITE DETAILS	A2.1	ROOF PLAN AND DETAILS
		A3.1	BUILDING ELEVATIONS
		A4.1	BUILDING SECTIONS AND DETAILS

ITEM	ONTARIO 2006 BUILDING CODE DATA MATRIX PARTS 3 or 9		CBC Reference References are to Division B unless noted [A] for Division A or [C] for Division C	
1	PROJECT DESCRIPTION	<input checked="" type="checkbox"/> NEW	<input type="checkbox"/> PART 11	<input checked="" type="checkbox"/> PART 3
		<input type="checkbox"/> ADDITION	11.1 to 11.4	<input checked="" type="checkbox"/> PART 9
2	MAJOR OCCUPANCY(S)	<input type="checkbox"/> CHANGE OF USE		11.2[A] & 9.10.1.3
3	BUILDING AREA (m <sup>2</sup> )	<input type="checkbox"/> ALTERATION		3.1.2.1(f)
4	GROSS AREA (m <sup>2</sup> )	EXISTING: 1,006	NEW: 551.2	NEW: 1,557.2
5	NUMBER OF STOREYS	ABOVE GROUND	TWO	BELOW GROUND
6	NUMBER OF STREETS / FIREFIGHTER ACCESS			TWO
7	BUILDING CLASSIFICATION	32.253 / 32.278		32.220 - 83
8	SPRINKLER SYSTEM PROPOSED	<input type="checkbox"/> ENTIRE BUILDING		32.220 - 83
		<input type="checkbox"/> SELECTED COMPARTMENTS		32.1.5
		<input type="checkbox"/> SELECTED FLOOR AREAS		32.2.17
9	STANDPIPE REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	3.2.8
10	FIRE ALARM REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	3.2.4
11	WATER SERVICE - SUPPLY IS ADEQUATE	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	3.2.5.7
12	HIGH BUILDING	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	3.2.6
13	CONSTRUCTION RESTRICTIONS	<input type="checkbox"/> COMBUSTIBLE PERMITTED	<input type="checkbox"/> NON-COMBUSTIBLE REQUIRED	32.2.20 - 83
14	ACTUAL CONSTRUCTION	<input type="checkbox"/> COMBUSTIBLE	<input checked="" type="checkbox"/> NON-COMBUSTIBLE	<input type="checkbox"/> BOTH
15	OCCUPANT LOAD BASED ON SUITE 100 (BUSINESS AND PERSONAL SERVICE) - 18			3.2.11.1(f)-(g)
16	HAZARDOUS SUBSTANCES	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	3.3.1.2
17	REQUIRED FIRE RESISTANCE			3.3.1.2.1
18	REQUIRED FLOOR FINISHES			3.3.1.2.1.1
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALL			3.2.3
20	PLUMBING FACILITIES			3.7

CIVIL - STRUCTURAL - MECH  
ENGINEER



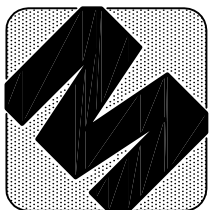
d.c. mccl<sup>o</sup>oskey engineering ltd.  
200-5766 wyndale street east, windsor, ontario n6b 1m6 tel (519) 977 8800

05/05/17

BUILDING PERMIT

date

issued for:

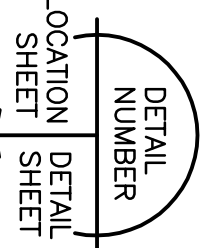


d.c. mcloskey engineering ltd.  
205-576 wyeville rd. e. wexford, ontario l9b 1m6 phone (519) 971 8800

PART OF LOT 4  
CONCESSION EAST OF PIKE CREEK  
GEOGRAPHIC TOWNSHIP OF MADSTONE  
NOW IN THE  
TOWN OF LAKESHORE  
COUNTY OF ESSEX, ONTARIO

**SITE STATISTICS:**

<b>ZONING</b>	WIL-1
<b>CONTROL PLAN</b>	W/CD USE
<b>BUILDING CLASSIFICATION</b>	F3
<b>SITE DATA</b>	
<b>TOTAL SITE AREA</b>	86,927 sf
<b>BUILDING AREA</b>	
EXISTING	10,838 sf
PROPOSED	18,445 sf
<b>NET FLOOR AREA</b>	10,838 sf
EXISTING	(2,100 sf)
ADDITION (SITE 5)	(2,100 sf)
ADDITION (SITE 6)	2,933 sf
<b>TOTAL BUILDING AREA</b>	16,771 sf
<b>GROSS FLOOR AREA</b>	(16,821 sf)
<b>SITE STANDARDS</b>	
<b>BUILDING LOT COVERAGE</b>	EXISTING 12.5% PROPOSED 19.4%
<b>PARKING/PAVED AREA</b>	-
<b>LANDSCAPED/OPEN SPACE</b>	-
<b>LINEAR CURBING</b>	- ft
<b>ALLOWABLE BUILDING HEIGHT</b>	34.44 ft (10.5 m)
<b>EXISTING HEIGHT (GARAGES)</b>	20.86 ft (EXISTING TO EAVES)
<b>EXISTING HEIGHT (OFFICE)</b>	22.86 ft (EXISTING TO EAVES)
<b>PARKING REQUIRED</b>	
FOR LIGHT INDUSTRIAL : 1 PER 95 sqm FOR 1st 2,000 sqm	
1,258sqm EXISTING BUILDING = 13	
1,358sqm BUILDING ADDITION = 6	
<b>TOTAL PARKING REQUIRED</b>	19 SPACES
<b>PARKING PROVIDED (LOAD)</b>	
EXISTING	27 SPACES
<b>TOTAL PARKING PROVIDED (INCLUDING HANDICAP)</b>	30 SPACES
<b>HANDICAP SPACES</b>	
20 SPACES (INCLUDES 2 BARRIER FREE SPACES)	
<b>BARRIER FREE PARKING PROVIDED</b>	3 SPACES (EXISTING TO REMAIN)
<b>LOADING SPACES (30x15x4.5 mhp)</b>	3 SPACES
<b>LOADING SPACES PROVIDED</b>	5 SPACES



DATE	ISSUED FOR
09/02/17	PRE-CONSULTATION
12/04/17	SITE PLAN AMENDMENT
05/05/17	BUILDING PERMIT

PROJECT	PROPOSED BUILDING EXPANSION
CLIENT	301 CROFT DRIVE, LAKESHORE, ONTARIO
ECODEVELOPMENTS	2015 INC.

DRAWING TITLE	SITE PLAN
---------------	-----------

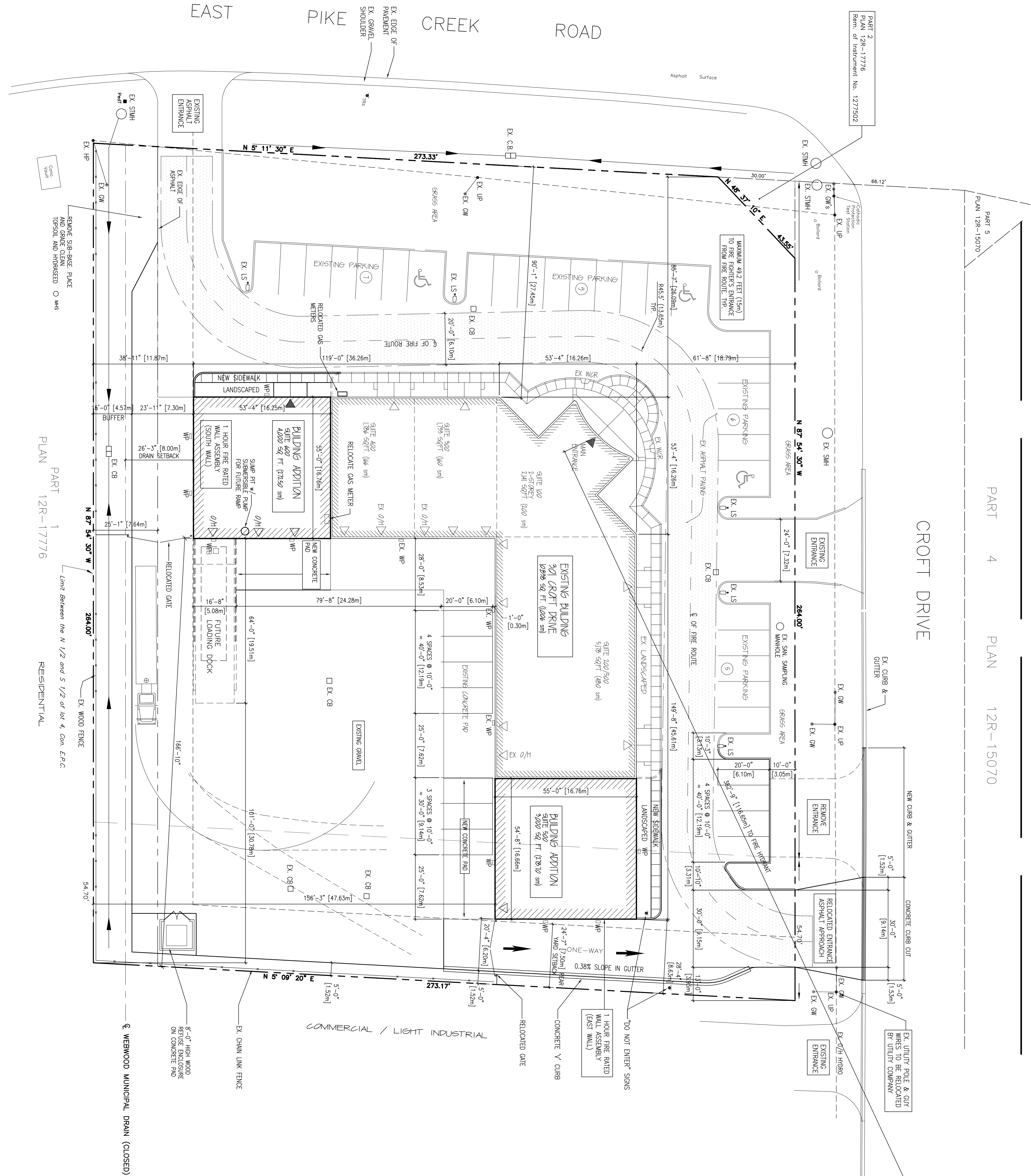
DATE :	FEB 2017
SCALE :	AS NOTED
DRAWN BY :	JLD
CHECKED BY :	DCM
PROJECT FILE NO.	M17-103
DRAWING NO.	C1.1



KEY PLAN  
SCALE : 1" = 20'-0"

PART 1  
PLAN 12R-17776  
RESIDENTIAL

SITE PLAN  
SCALE : 1" = 20'-0"



PART 4  
PLAN 12R-15070

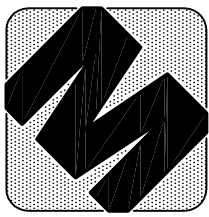
CROFT DRIVE

PART 5  
PLAN 12R-15070

PART 2  
PLAN 12R-17776  
Rem. of Instrument No. 1277502

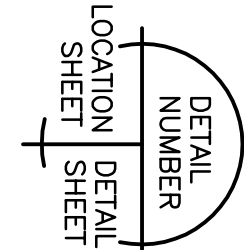






d.c. mccluskey engineering ltd.  
1880 mainport street suite 101, woodstock, ontario n4b 1s4 canada  
phone (519) 971-8800 fax (519) 251-3497 [info@mccluskeyeng.com](mailto:info@mccluskeyeng.com)

- general notes:**
1. THE PRINT IS AN INSTRUMENT OF SERVICE ONLY AND IS NOT TO BE REPRODUCED OR COPIED.
  2. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
  3. ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL SPECIFICATIONS AND CONDITIONS OF THE PROJECT IN REGARDS TO SUBMISSION OF SHOP DRAWINGS.
  4. IN THE EVENT THE DESIGNER IS REQUIRED TO REVIEW CONTRACTOR'S SHOP DRAWINGS, THE REVIEWER SHALL BE CONSIDERED TO HAVE REVIEWED THE SHOP DRAWINGS AND WITH THE EXCEPT OF THE EXISTENCE OF ANY OBSERVED VIOLATIONS OF THE GENERAL SPECIFICATIONS AND CONDITIONS, THE REVIEWER SHALL BE RESPONSIBLE FOR THE DESIGNER'S CONSENT OR RE-DESIGN.
  5. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THIS FACILITY OR TECHNIQUES IN THE FIELD.



DATE	ISSUED FOR
12/04/17	SITE PLAN AMENDMENT
05/05/17	BUILDING PERMIT

**PROJECT**

**PROPOSED ADDITION TO EXISTING BUILDING**

**CLIENT**

301 CROFT DRIVE  
LAKESHORE, ONTARIO

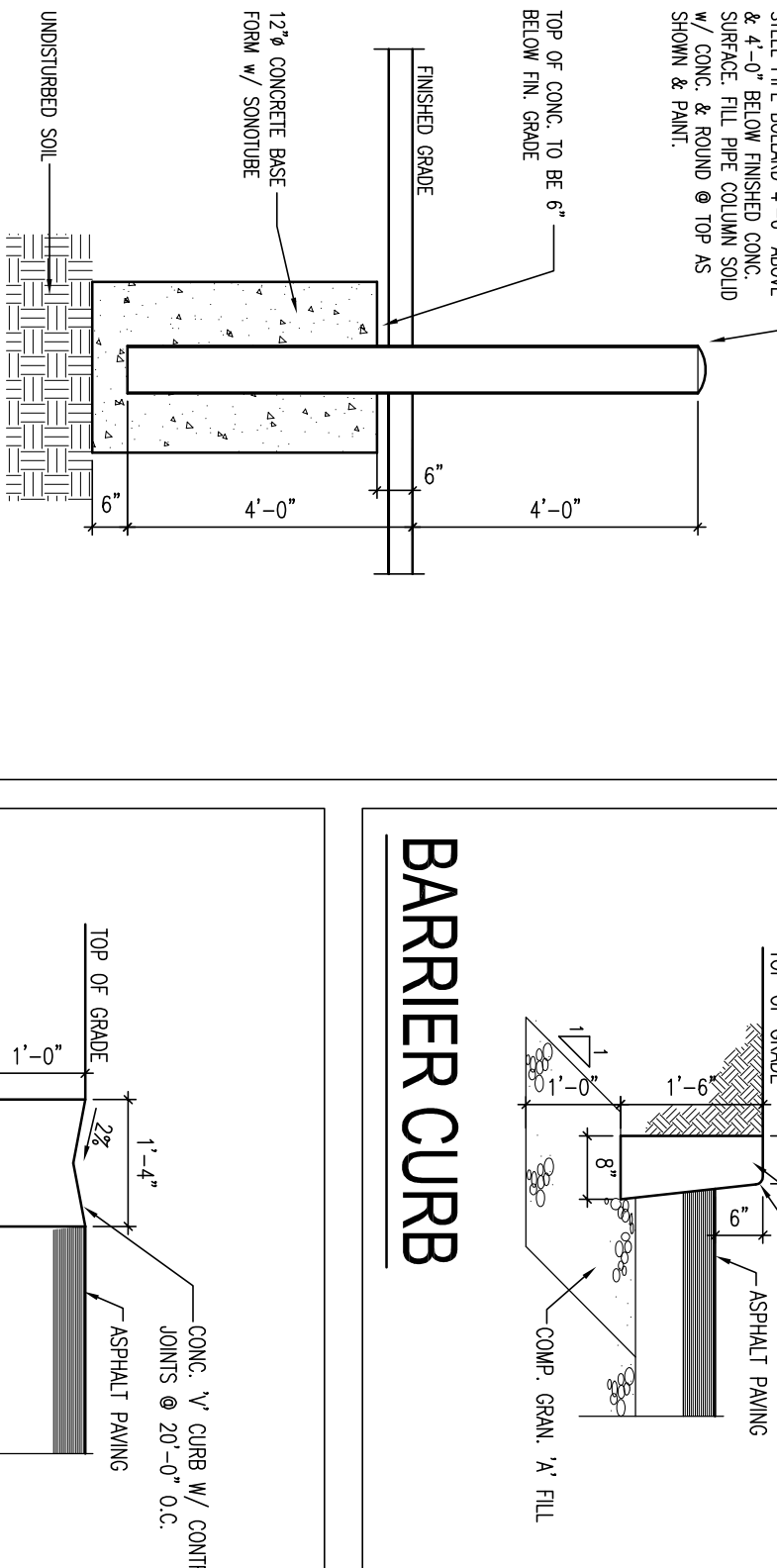
**ECODEVELOPMENTS**

2015 INC.

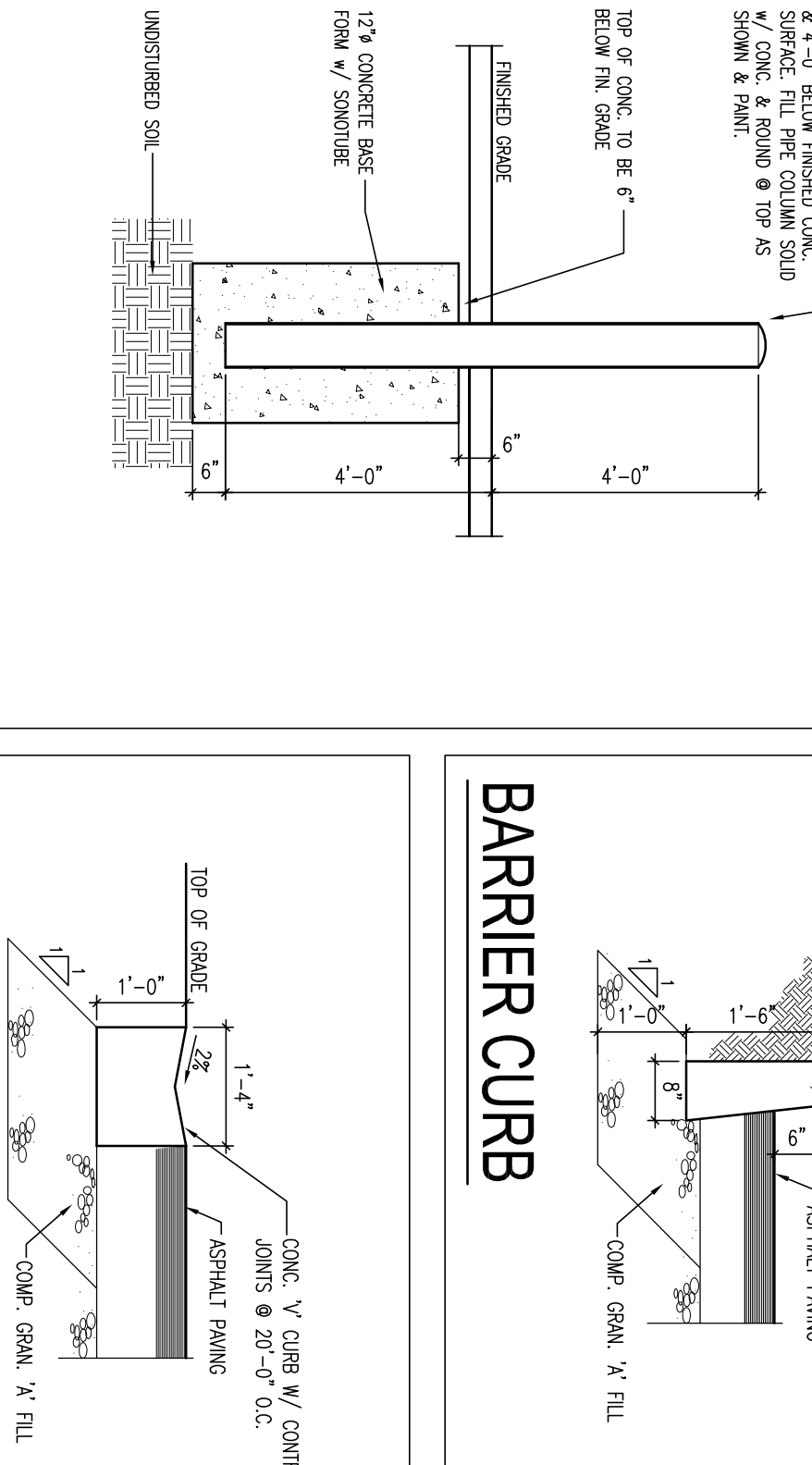
**DRAWING TITLE**

**SITE SERVICING DETAILS**

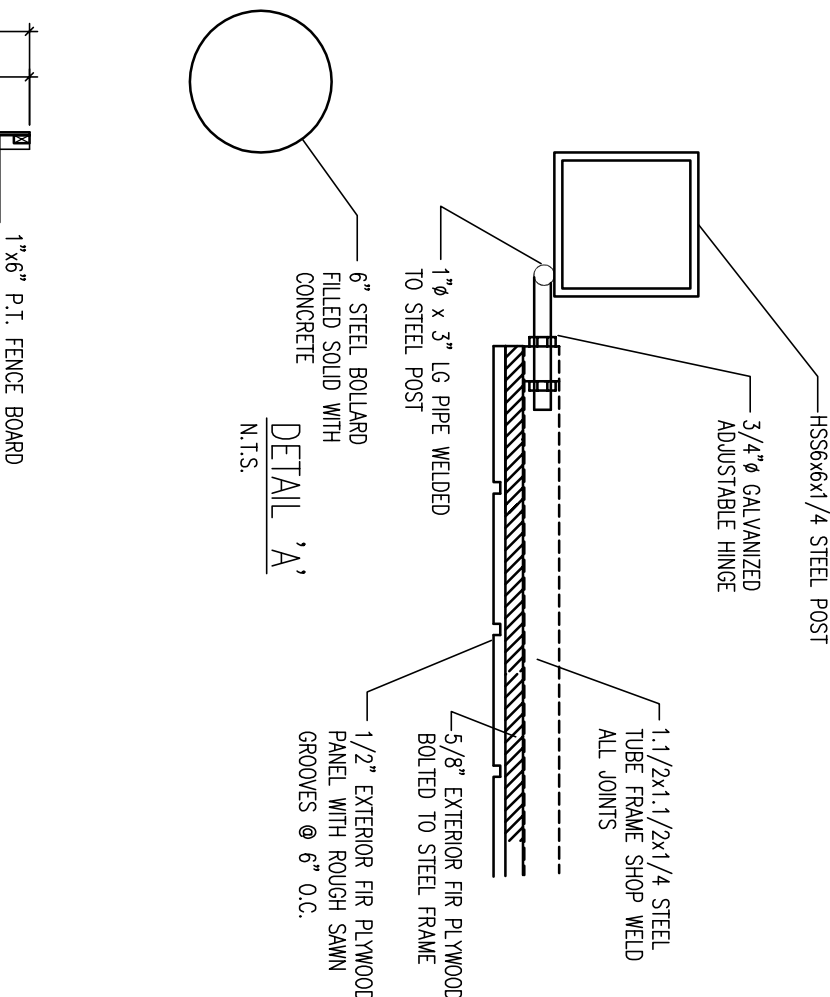
DATE :	FEB 2017
SCALE :	AS NOTED
DRAWN BY :	JLD
CHECKED BY :	DCM
PROJECT FILE NO.	M17-103
DRAWING NO.	C1.3



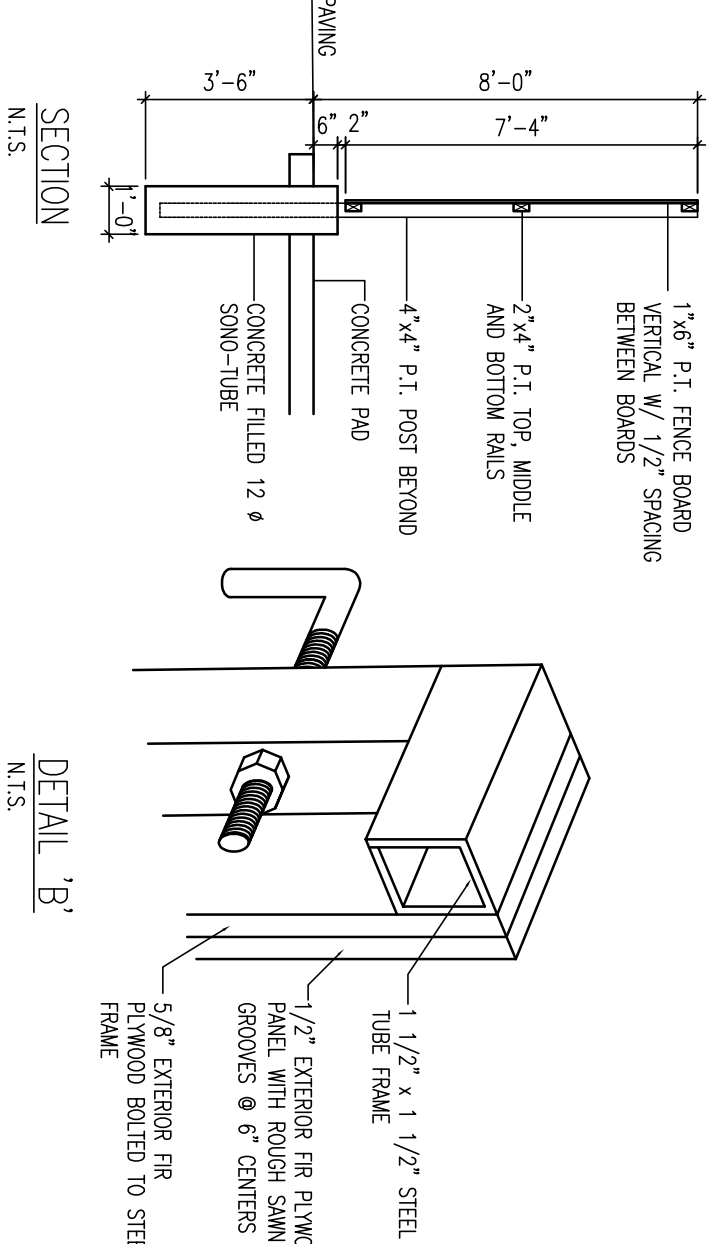
**BARRIER CURB**



**CONC. V CURB**

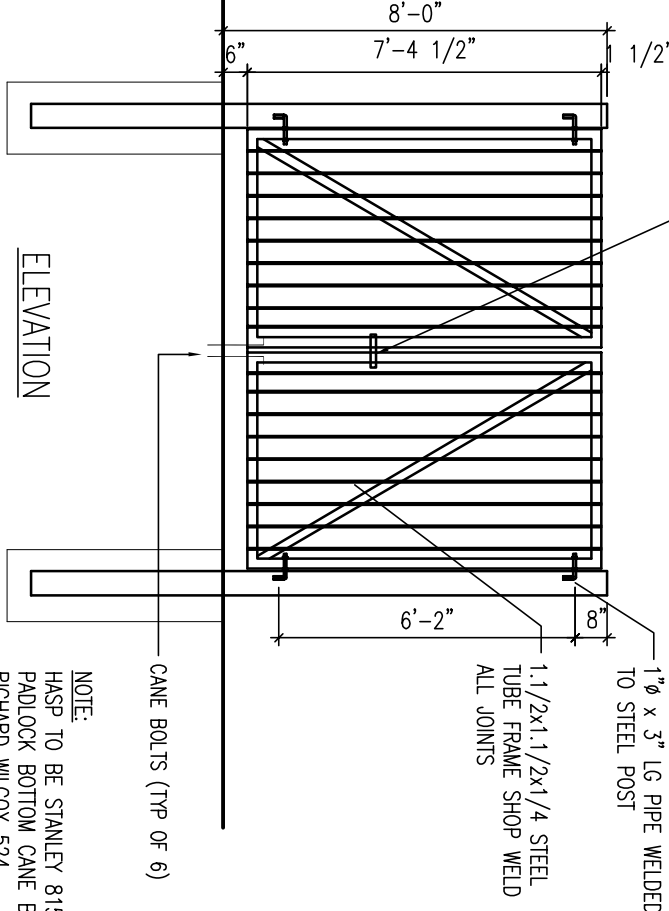


**DETAIL 'A'**



**SECTION**

**DETAIL 'B'**

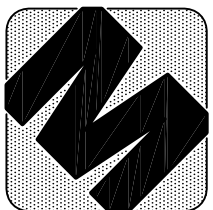


**PLAN**

**ELEVATION**

**TYP. WOOD REFUSE ENCLOSURE**

SCALE : 1/4" = 1'-0"



d.c. mccluskey engineering ltd.  
205-516 warden ave. unit 101, warden, ontario l6h 5h9 (905) 877-8800

- general notes:**
1. THE PRINT IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
  2. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THAT THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS ARE ACCURATE AND CORRECT.
  3. ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL SPECIFICATIONS AND CONDITIONS OF CONTRACT AND WITH THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF THE EXISTENCE OF ANY OBSERVED VARIATIONS FROM THE SPECIFICATIONS, CONDITIONS AND ANY APPLICABLE CODES OR BY-LAWS.
  4. THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THIS FACILITY OR TECHNIQUES IN THE CONSTRUCTION OF THIS FACILITY.

DETAIL NUMBER  
LOCATION DETAIL  
SHEET

DATE ISSUED FOR  
(dd/mm/yy)  
03/05/17 BUILDING PERMIT


PROPOSED BUILDING  
EXPANSION

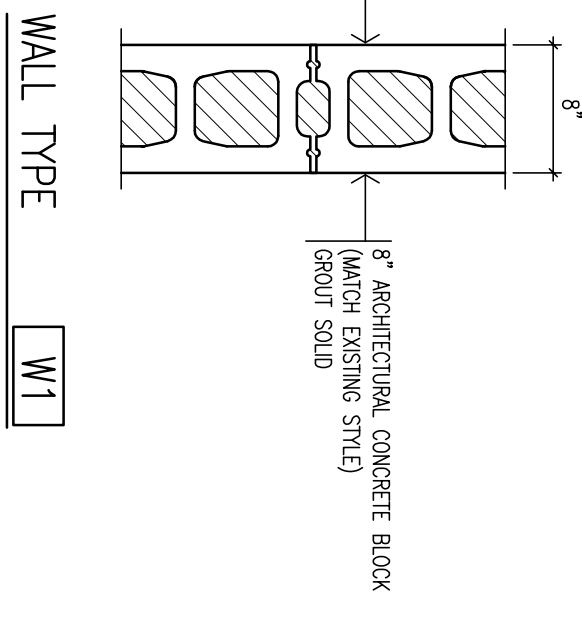
301 CROFT DRIVE  
LAKESHORE, ONTARIO

CLIENT  
ECODEVELOPMENTS  
2015 INC.

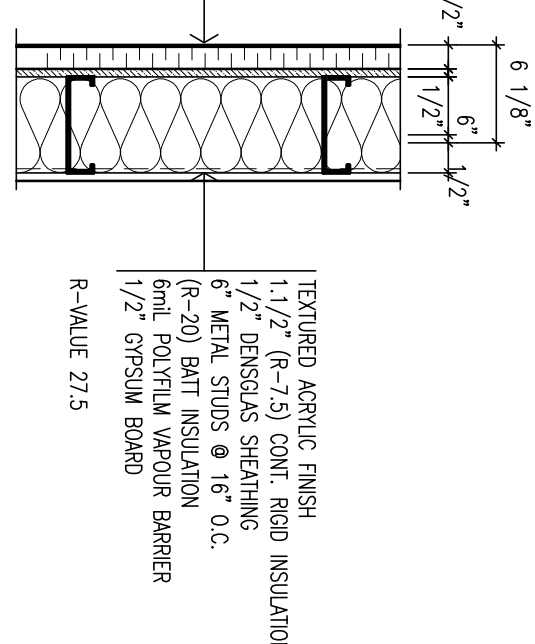
DRAWING TITLE  
FLOOR PLAN  
AND WALL TYPES

DATE : FEB. 2017  
SCALE : AS NOTED  
DRAWN BY : BC/JLD  
CHECKED BY : DCM  
PROJECT FILE NO. M17-103  
DRAWING NO.

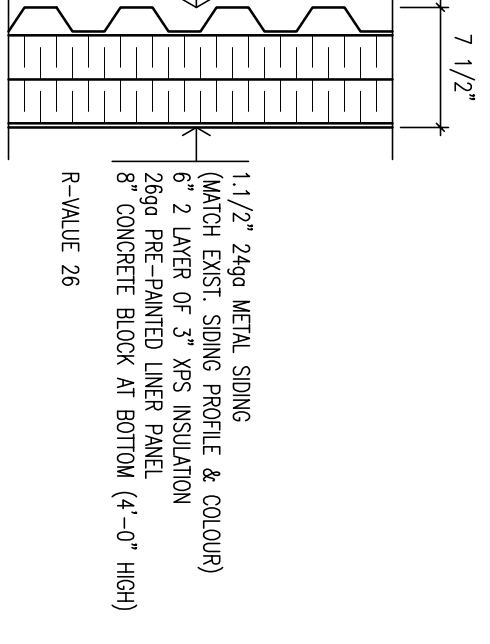
WALL TYPES:



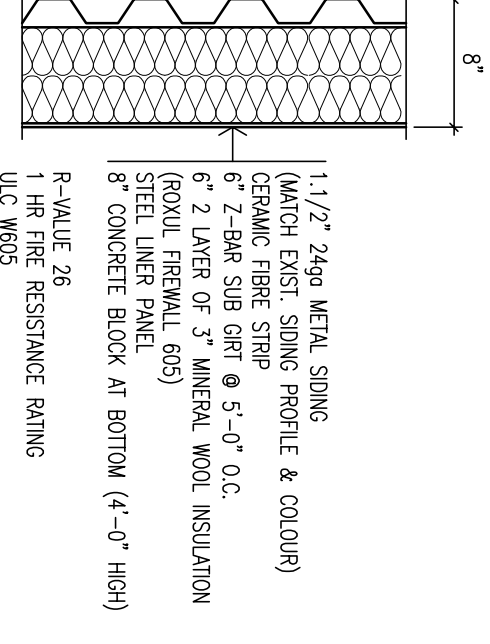
WALL TYPE W1



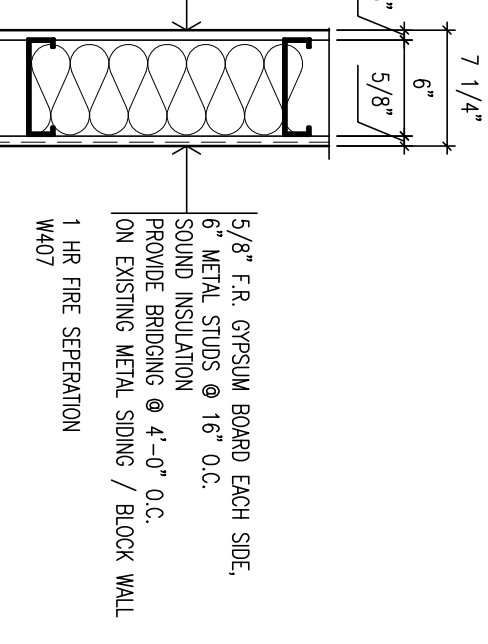
WALL TYPE W2



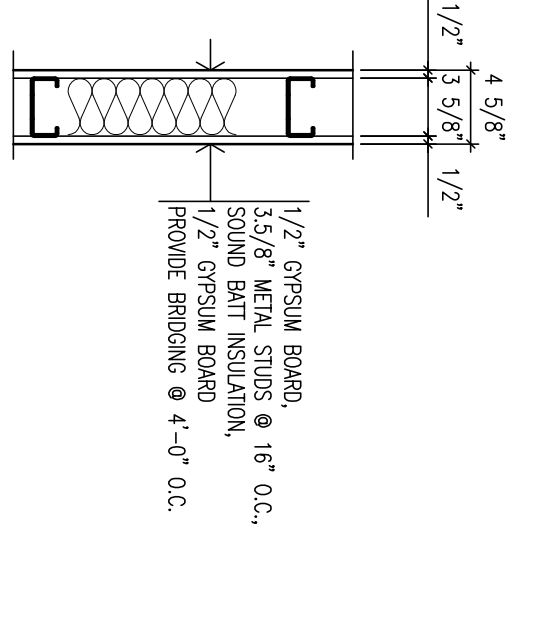
WALL TYPE W3



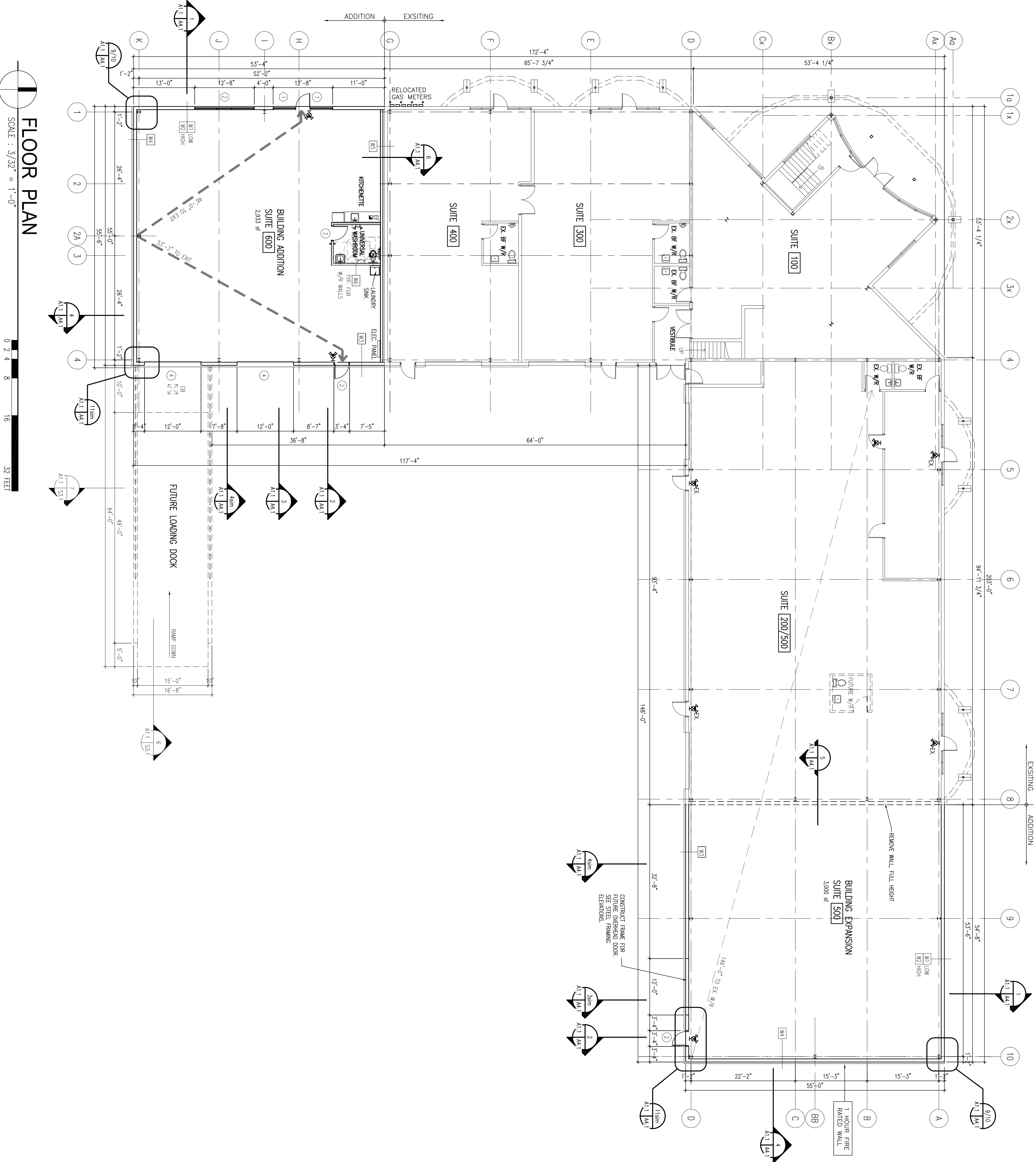
WALL TYPE W4



WALL TYPE W5



WALL TYPE W6

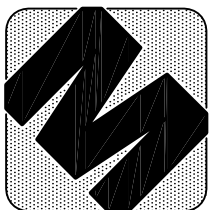


FLOOR PLAN

SCALE : 3/32" = 1'-0"

0 2 4 8 16 32 FEET



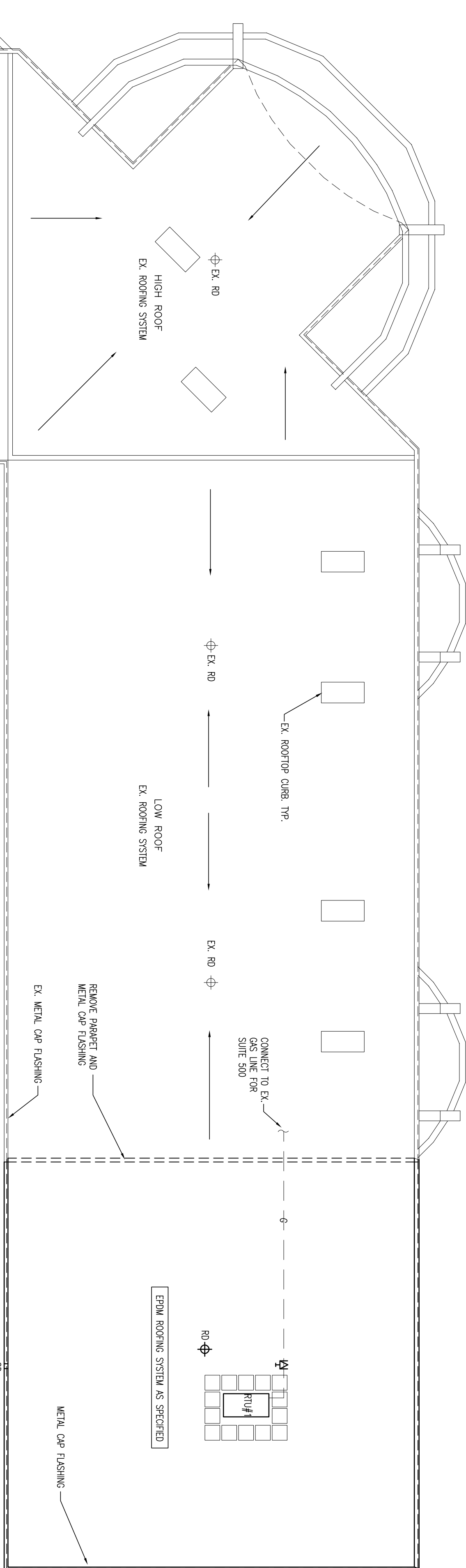


d.c. mccluskey engineering ltd.  
200-576 warden ave. unit 100, warden, ontario l6h 5h9 tel (905) 977-8800

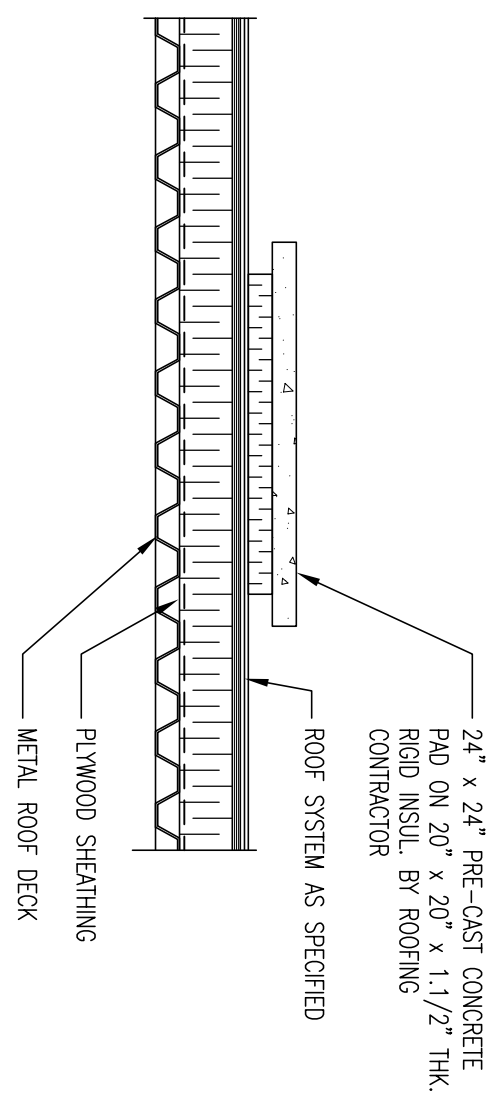
ROOF SYMBOLS	
⊕	ROOF DRAIN
⊖	VENT
⊙	EXHAUST FAN
⊖	SCUPPER STACK
⊖	SCUPPER DRAIN
⊖	RELIEF VENT
⊖	ELECTRICAL CONDUIT THRU ROOF
⊖	VENT STACK
⊖	ANTENNA SUPPORT BRACKET
⊖	SATELITE DISH
⊖	DUCT THRU ROOF

- ROOFING NOTES:
- ROOFING ASSEMBLY SHALL BE TYP. FULLY ADHERED MEMBRANE ROOFING SYSTEM PRODUCTS BY PRESTONE, CRATSLI, LUXSLID ARE ACCEPTABLE.
  - THE CONTRACTOR SHALL INSPECT AREAS OF NEW ROOFING WORK AND COMMENT THEREON TO THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING ROOFING. THE CONSULTANT IS NOT ACCEPTABLE.
  - INSTALL "HARDWARE" WORKER BARRIER BY RO. ON THE METAL ROOF DECK. MANUFACTURER.
  - INSTALL 2 LAYERS OF POLY ISO INSULATION WITH MINIMUM LONG TERM R-VALUE OF 50. OVER W/POUR BARRIER, SHOWER JOINTS OF INSULATION BOARDS, AS PER THE MANUFACTURER'S INSTRUCTIONS. CONTINUE ROOFING MEMBRANE OVER AND DOWN PARAPETS.
  - LAY CONTINUOUS PROTECTIVE MAT OVER THE ENTIRE ROOFING AREA.
  - INSTALL CONCRETE WALKWAY AS SHOWN ON THE DRAWINGS.
  - INSTALL 24 ga. GALVANIZED STEEL PREPUNISHED CAP FLASHING WHERE SHOWN ON THE DRAWINGS.
  - ROOFING CONTRACTOR SHALL PROVIDE MANUFACTURER'S 15 YEARS LABOUR AND MATERIAL WARRANTY IN THE NAME OF THE OWNER AGAINST DEFECTIVE MATERIAL WORKS.
  - ROOFING CONTRACTOR SHALL PROVIDE 2 YEARS WRITTEN WARRANTY IN THE NAME OF THE OWNER AGAINST DEFECTIVE WORKMANSHIP.

\*CO-ORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS

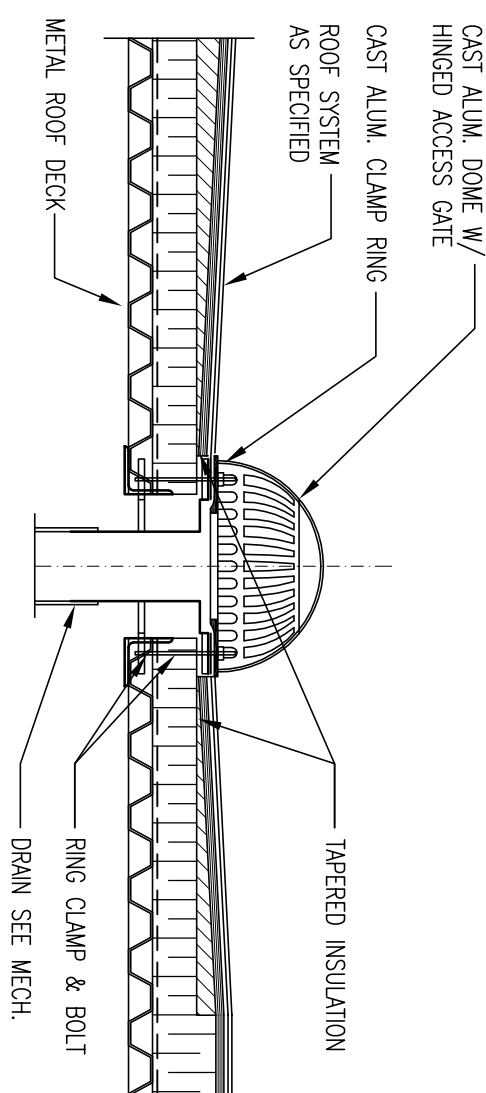


## ROOF DETAILS



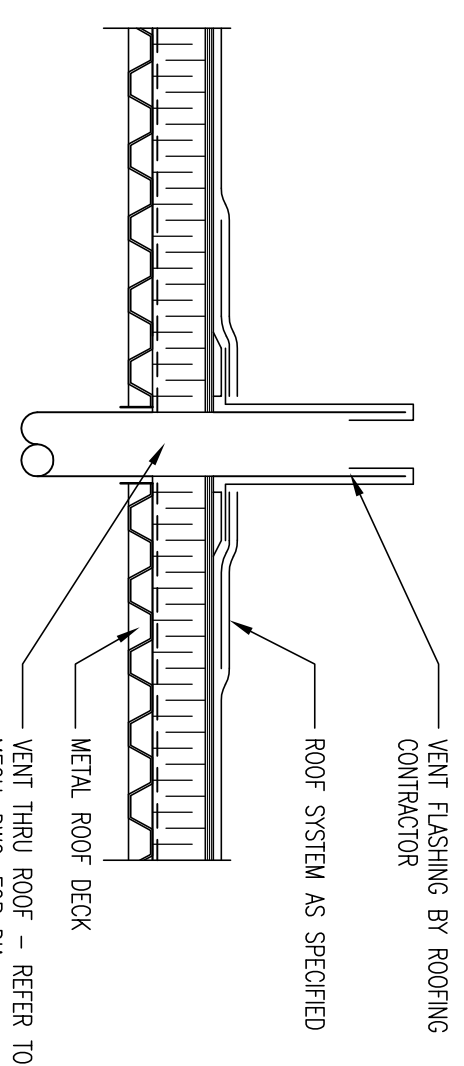
### DETAIL - PATIO STONE

SCALE : 1" = 1'-0"



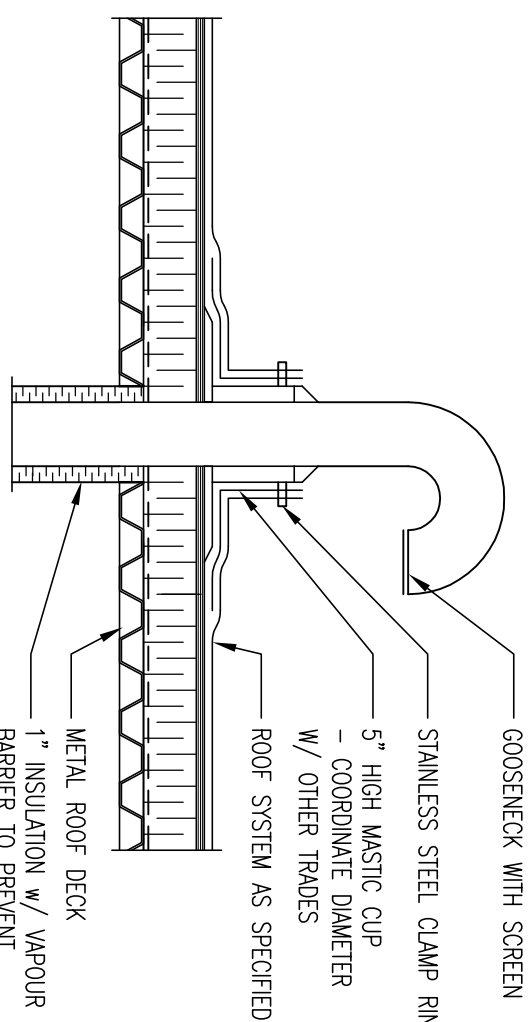
### DETAIL - TYP. ROOF SUMP

SCALE : 1" = 1'-0"



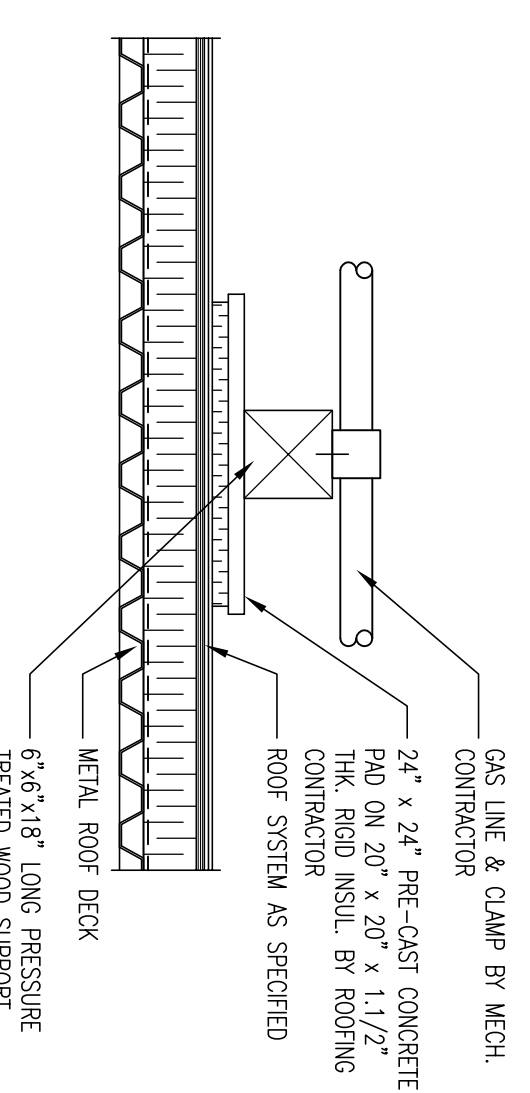
### DETAIL - TYP. THRU ROOF VENT

SCALE : 1" = 1'-0"



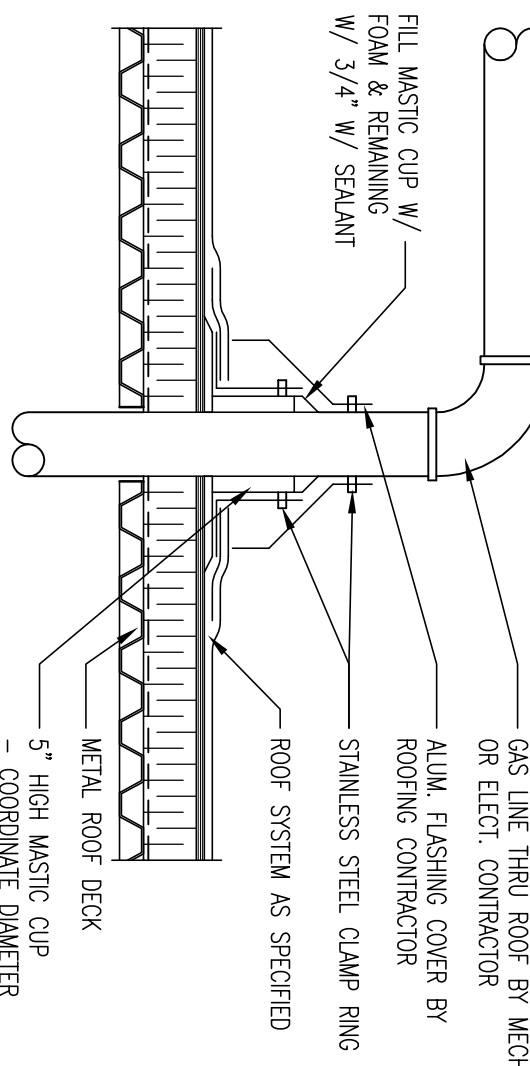
### DETAIL - EXHAUST VENT

SCALE : 1" = 1'-0"



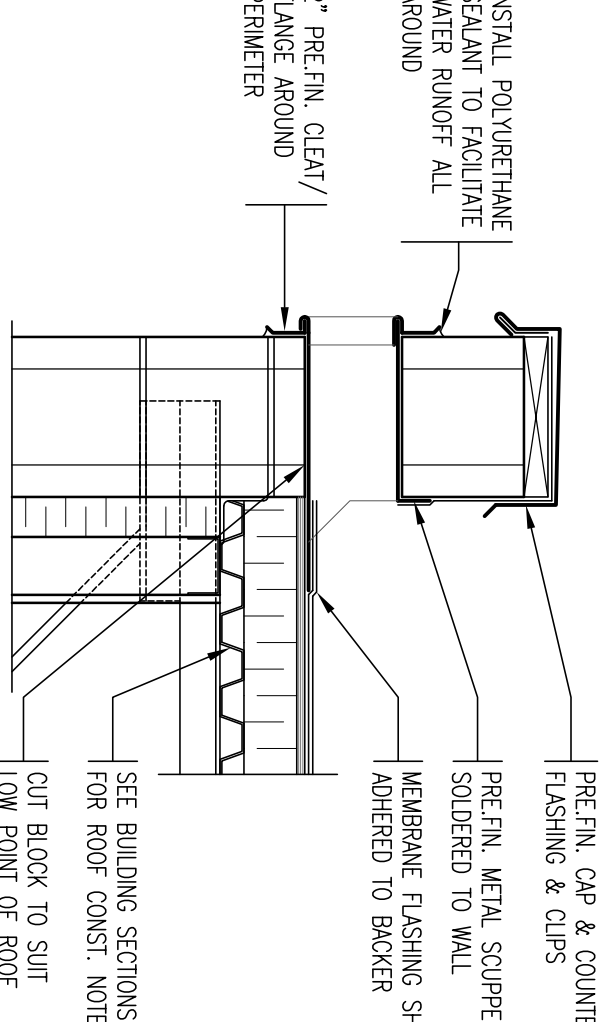
### DETAIL - GAS LINE SUPPORT

SCALE : 1" = 1'-0"



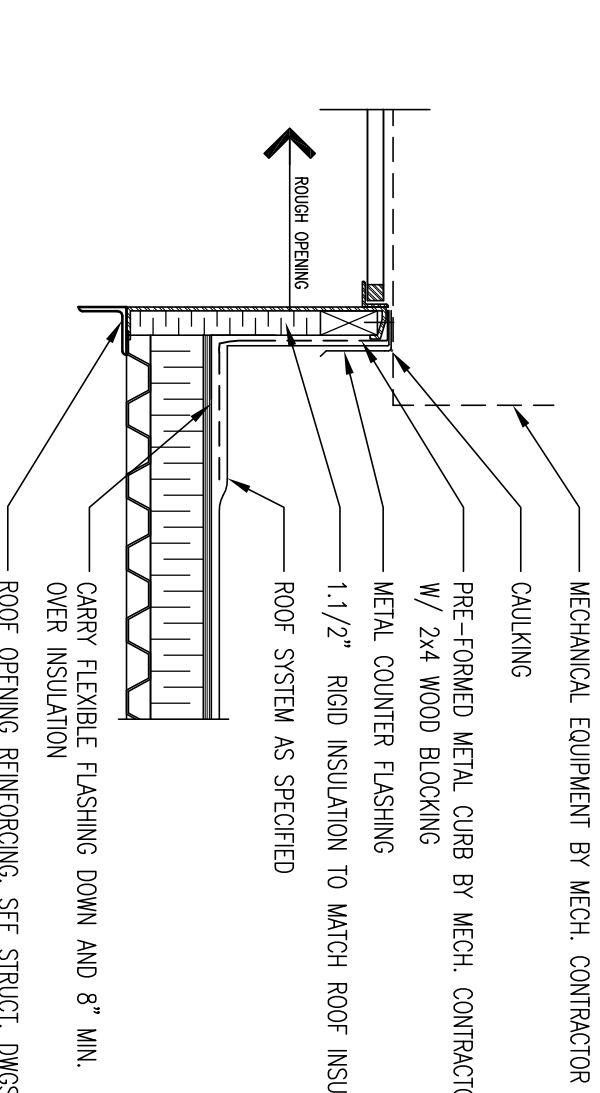
### DETAIL - GAS LINE THRU ROOF

SCALE : 1" = 1'-0"



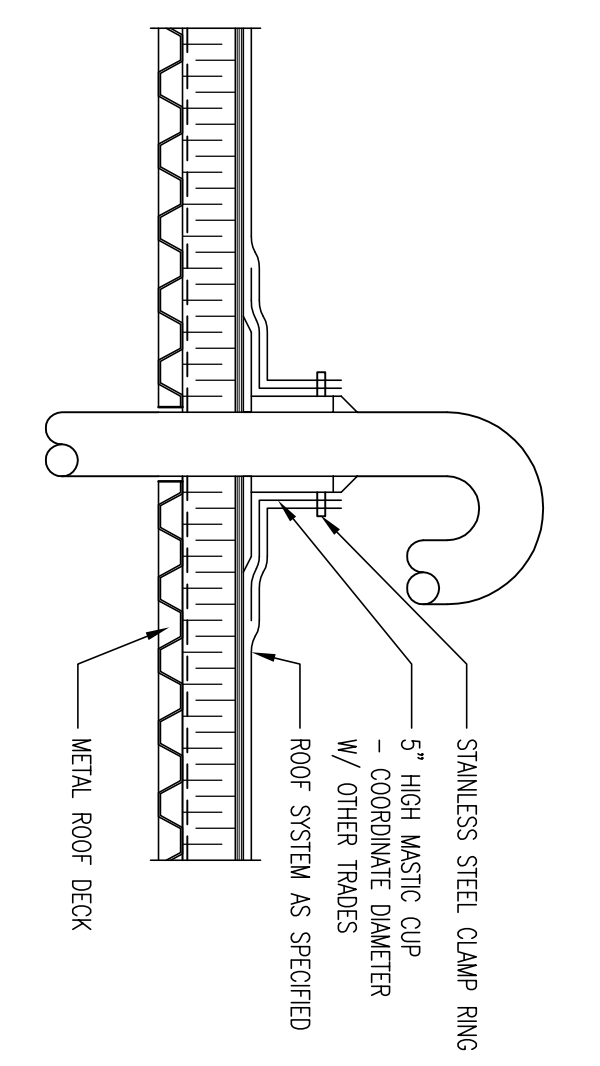
### DETAIL - SCUPPER DRAIN

SCALE : 1" = 1'-0"



### DETAIL - TYP. MECH. ROOF CURB

SCALE : 1" = 1'-0"



### DETAIL - ELECTRICAL CONE

SCALE : 1" = 1'-0"

## ROOF PLAN

SCALE : 3/32" = 1'-0"

0 2 4 8 16 32 FEET

### general notes:

- THIS PRINT IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
- CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING ROOFING. THE CONSULTANT IS NOT ACCEPTABLE.
- ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL CONTRACT DOCUMENTS AND WITH THE CONTRACTOR'S OBLIGATION TO THE ARCHITECT AND THE ARCHITECT'S OBLIGATION TO THE OWNER.
- CONTRACTORS SHALL PROMPTLY NOTIFY THE DESIGNER IN WRITING OF THE EXISTENCE OF ANY OBSERVED VIOLATIONS OF THE EXISTING CODES OR BY-LAWS, DOCUMENTS AND ANY APPLICABLE CODES OR BY-LAWS.
- THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THIS FACILITY OR TECHNIQUES IN THE CONSTRUCTION OF THIS FACILITY.

DETAIL NUMBER  
LOCATION DETAIL  
SHEET 1

DATE ISSUED FOR  
(dd/mm/yy)  
09/05/17 BUILDING PERMIT

PROJECT
PROPOSED BUILDING EXPANSION
301 CROFT DRIVE LAKESHORE, ONTARIO
CLIENT
ECODEVELOPMENTS 2015 INC.

DRAWING TITLE
ROOF PLAN AND DETAILS
DATE :
FEB. 2017
SCALE :
AS NOTED
DRAWN BY :
B/C/JLD
CHECKED BY :
DCM
PROJECT FILE NO.
M17-103
DRAWING NO.
A2.1





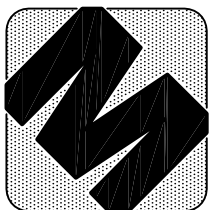












d.c. mcloakesy engineering ltd.

205-576 warden street east, warden, ontario l6h 5t9 (519) 977-8800

general notes:

1. THIS PRINT IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
2. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
3. ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL SPECIFICATIONS AND CONDITIONS OF CONTRACT.
4. IN THE EVENT THE DESIGNER IS DEEMED TO REVIEW CONTRACTORS' PROPOSALS, THE DESIGNER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PROPOSALS AND DOES NOT CONSTITUTE AN ENDORSEMENT OF THE PROPOSALS OR A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED BY THE CONTRACTORS.
5. CONTRACTORS SHALL PROMPTLY NOTIFY THE DESIGNER IN WRITING OF THE EXISTENCE OF ANY OBSERVED VARIATIONS FROM THE DESIGN OR ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OR BY-LAWS.
6. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE FACILITY OR THE FACILITY'S PERFORMANCE.
7. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE FACILITY OR THE FACILITY'S PERFORMANCE.

DETAIL NUMBER  
LOCATION  
DETAIL SHEET

DATE	ISSUED FOR
05/05/17	BUILDING PERMIT
-	-
-	-
-	-

PROJECT  
PROPOSED BUILDING  
EXPANSION

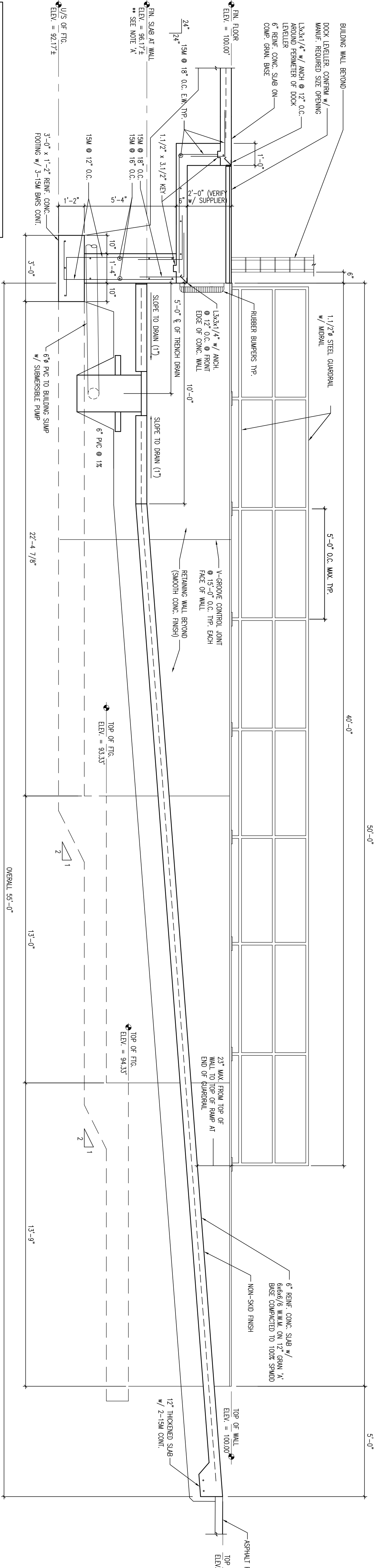
301 CROFT DRIVE  
LAKESHORE, ONTARIO

CLIENT

ECODEVELOPMENTS  
2015 INC.

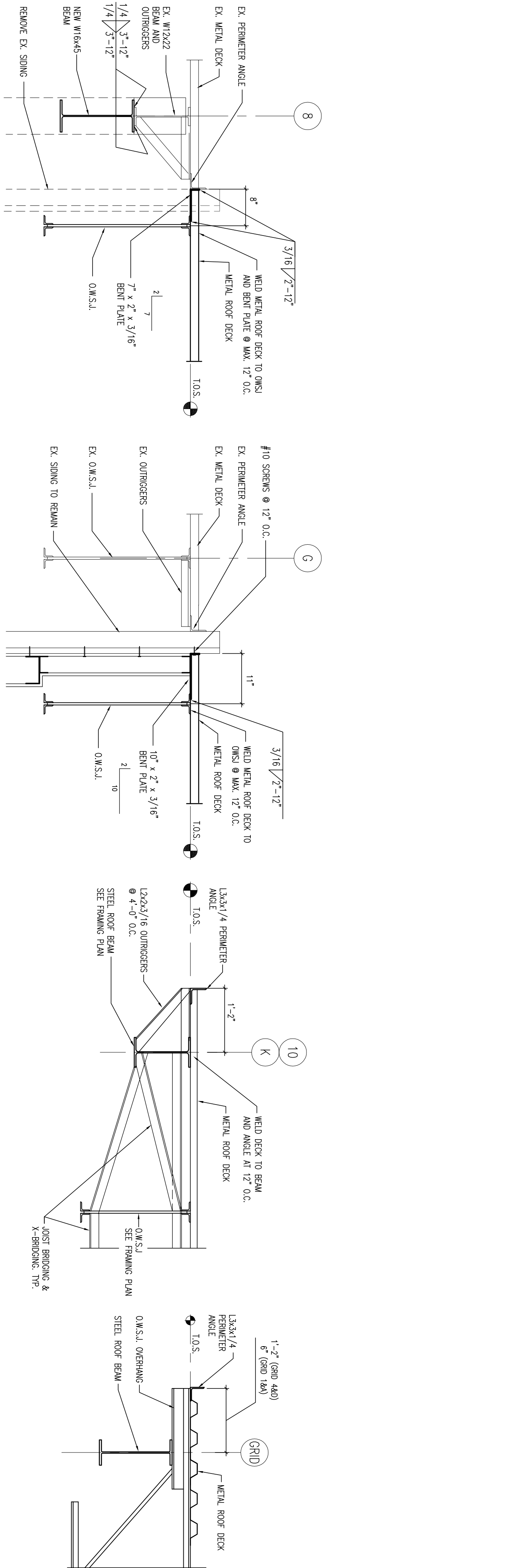
DRAWING TITLE  
LOADING DOCK SECTIONS  
AND FRAMING DETAILS

DATE :	FEB. 2017
SCALE :	AS NOTED
DRAWN BY :	JLD
CHECKED BY :	DCM
PROJECT FILE NO.	M17-103
DRAWING NO.	S3.1

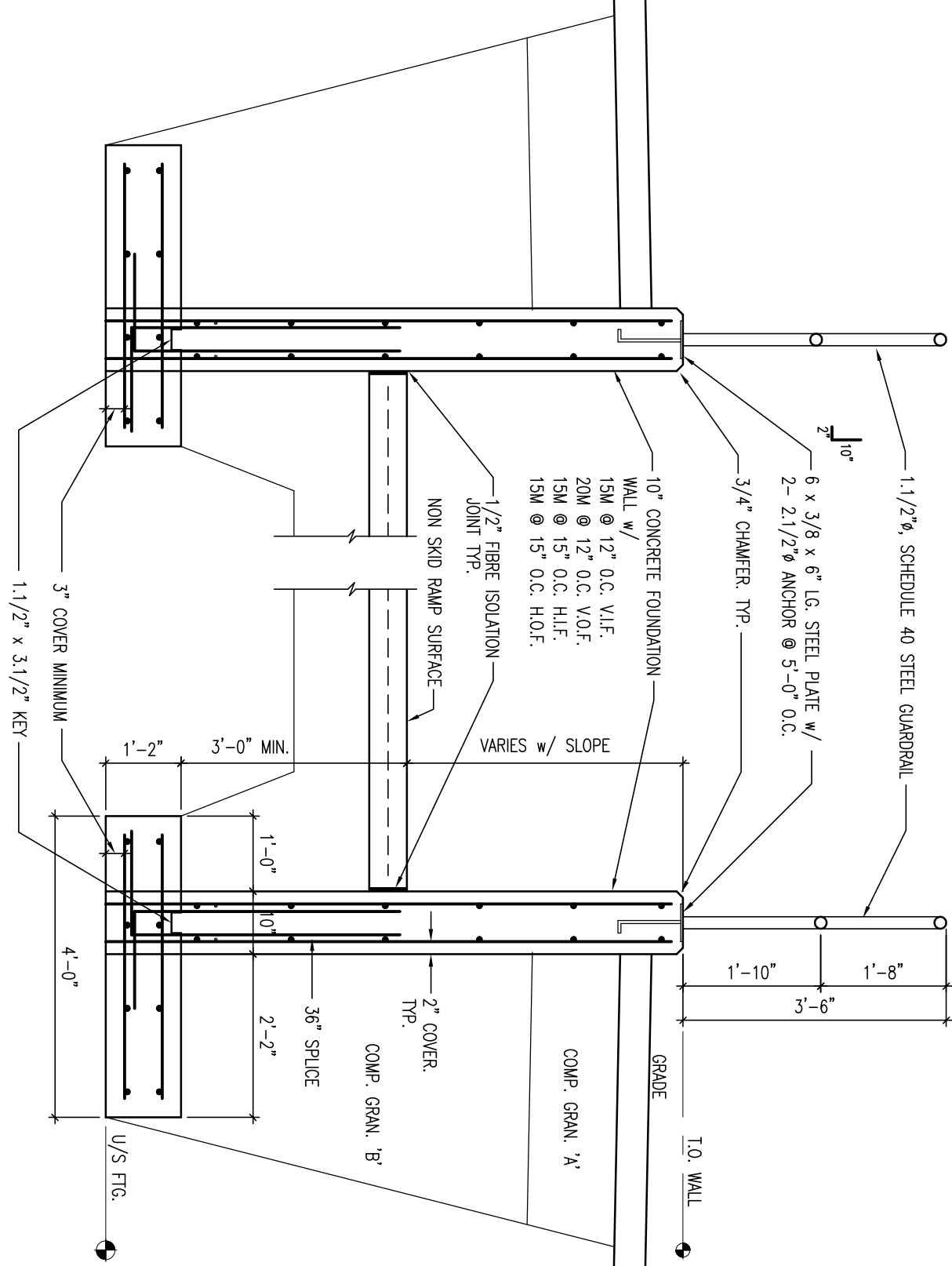


\*\* NOTE A:  
DEPTH OF ALL LOADING DOCKS SHALL BE VERIFIED BY THE OWNER PRIOR TO PLACING THE LOADING DOCK CONCRETE SLAB.

SECTION - FUTURE LOADING DOCK



SECTION - FUTURE LOADING DOCK



S3.1

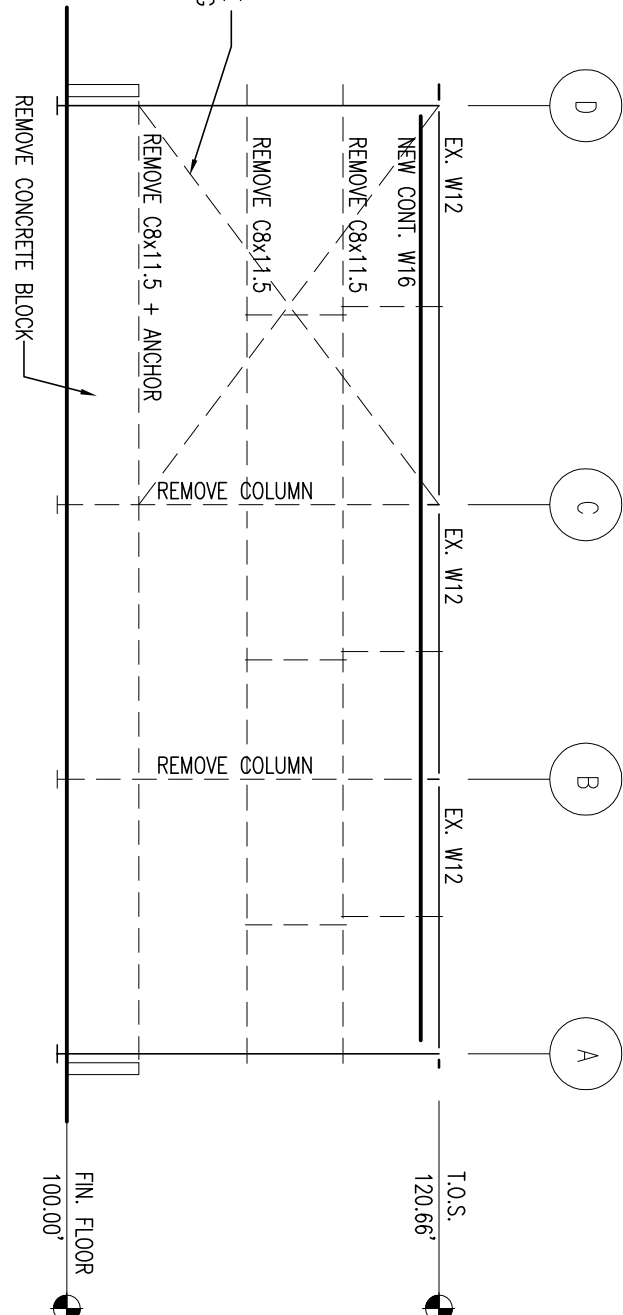
SECTION

SECTION

SECTION

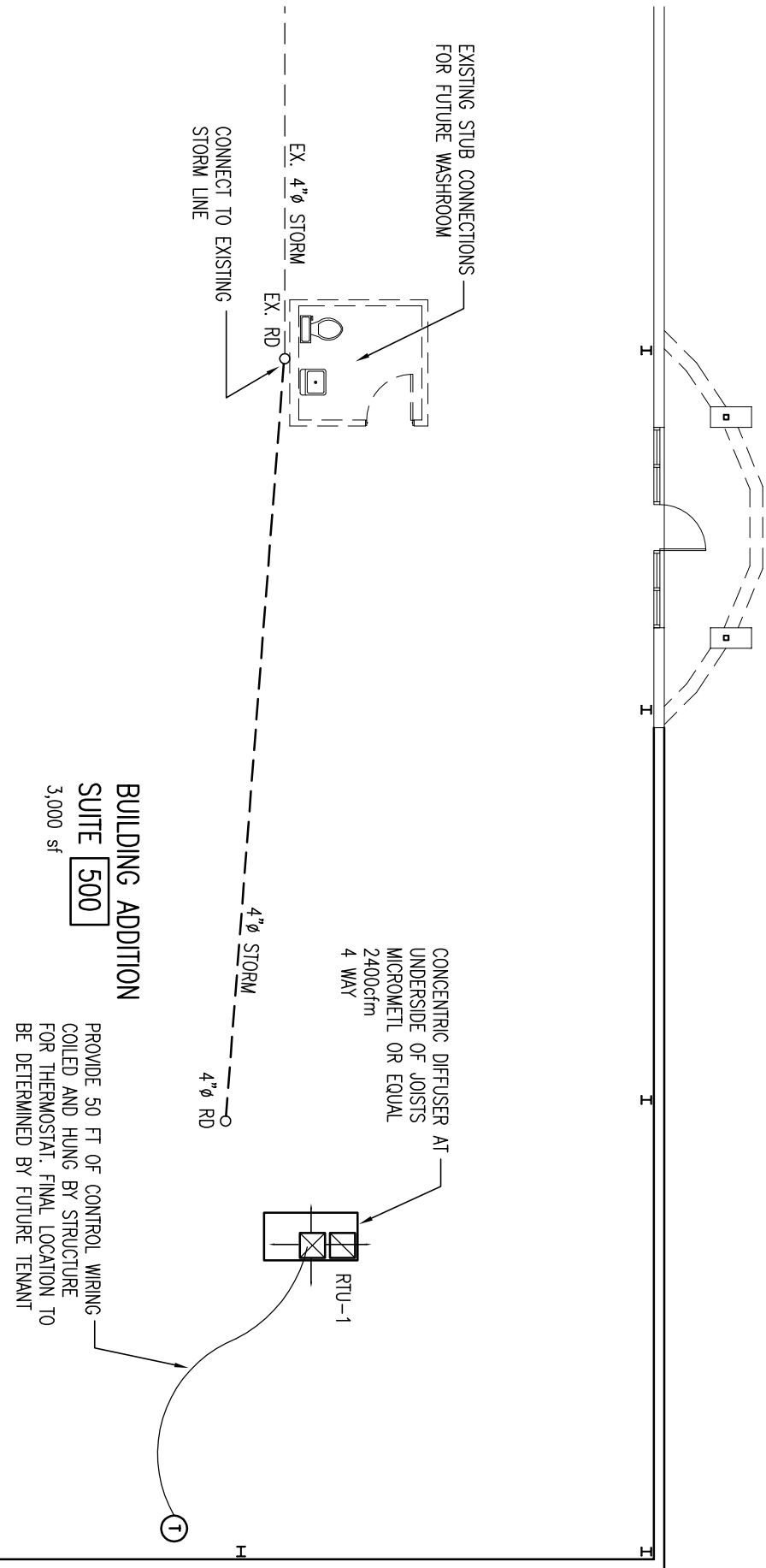
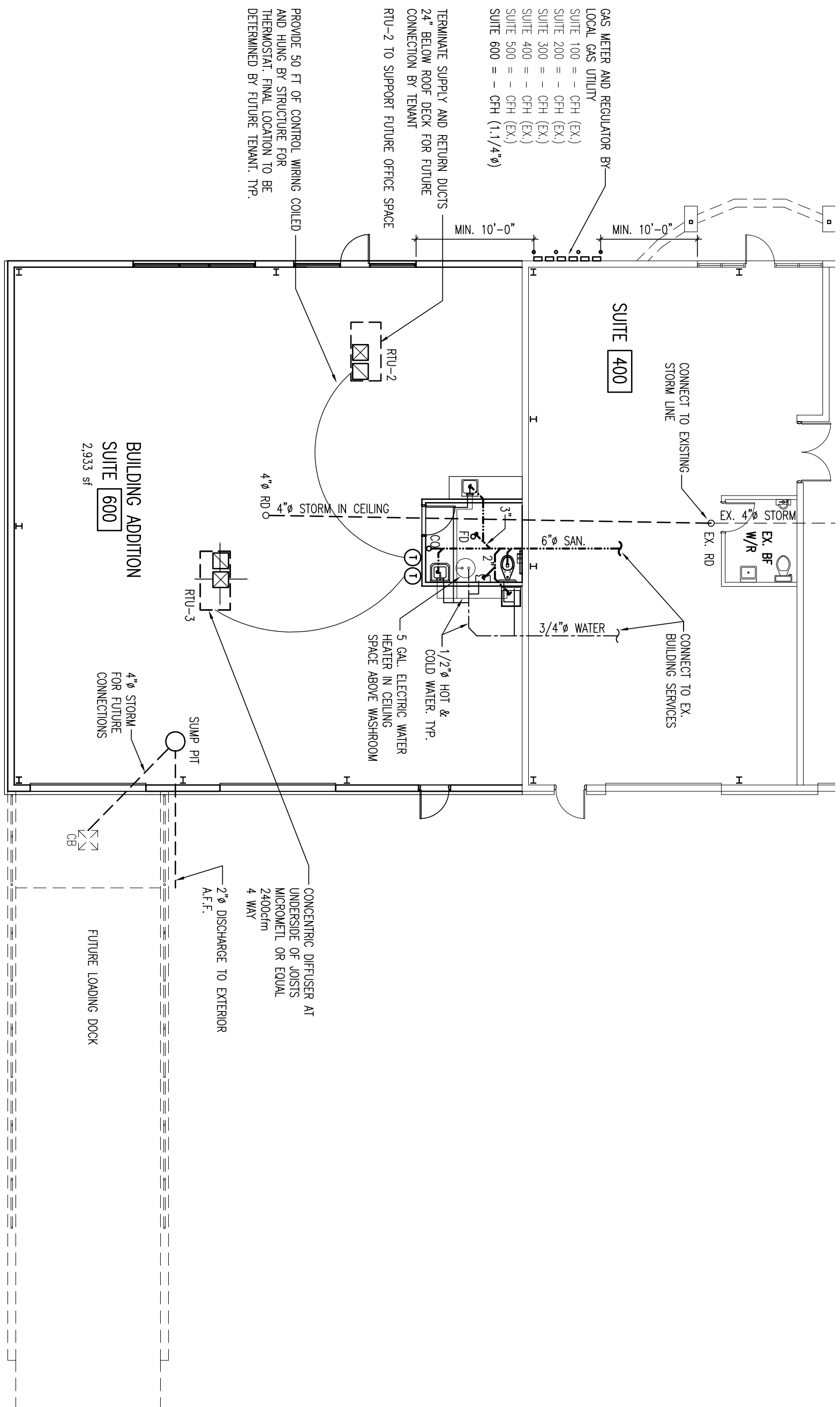
SECTION

STEEL FRAMING ELEVATION ALONG GRIDLINE '8'



SCALE : 3/32" = 1'-0"





- GENERAL NOTES**
1. COMPLETE INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS, AND TO THE SATISFACTION OF ALL AGENCIES HAVING JURISDICTION OVER ALL PERMITS AND ALL INSPECTIONS.
  2. GROUND CONDITIONS SHALL BE EXAMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  3. FINAL ELEVATIONS SHALL BE OBTAINED FROM THE OWNER.
  4. THE CONTRACTOR SHALL EXAMINE THE SITE, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS, VERIFY LOCATION AND SIZE OF EXISTING PIPES AND DITCHES IN FIELD AND SURVEY HIGHWAY. ALL WORK CAN BE SATISFACTORILY COMPLETED AS PER DRAWINGS, NO EXTRA WILL BE ALLOWED FOR FAILURE TO HAVE MADE THE EXAMINATION.
  5. SLAB/ST SHOT DRAININGS FOR THE FOLLOWING:

3. BRISTERS, GAILES AND RESISTERS
4. MACHINERY AND ELECTRICAL CONNECTIONS SHALL WORK IN CONNECTION WITH ONE SYSTEM TO AVOID INTERFERENCES BETWEEN PIPING, CONDUITS, LIGHT FIXTURES, ETC.
5. ELECTRICAL PANELS SHALL BE LOCATED AS FOLLOWS:
  - a. VERY LOW LOCATION OF ELECTRICAL PANEL AND PROVIDE SIG PANEL IS REQUIRED. NO OTHER ELECTRICAL PANELS SHALL BE LOCATED IN THE SAME ROOM.
  - b. CONDUIT SHALL BE RUN TO THE PANEL TO SHUT OFF IN THE EVENT OF A FIRE AND RESET THE PANEL.
7. ALL HVAC EQUIPMENT SHALL MEET MINIMUM EFFICIENCY REQUIREMENTS OF ASHRAE 90.1 (LATEST EDITION).
8. ALL ELECTRICAL SYSTEMS SHALL BE AS FOLLOWS:
  - a. PROVIDE ACCESS ROUTES TO DISCREETLY AS REQUIRED.
  - b. ALL DISCREET TRAYS RUNS FROM TRUNK TO HAVE BLINDS, BUNDLES, OR OTHER MEANS TO PROTECT FROM THE PUBLIC.
  - c. ALL DUCT SHALL BE CONSTRUCTED OF GALVANIZED WELD STEEL SHEETS TO CORROSION AND SHIPMENT ALL IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS FURNISHED BY OWNER AND SUBJECT THE LOW PRESSURE AND STATIC.
  - d. SEAL ALL DUCT AS PER SNAKES SEAL CLASS C.
  - e. PROVIDE EVALUATE CONDUITS WITH CURRENT LOADING DANCE AND DEFLECTING VIEWS AS SHOWN ON THE DRAWINGS AND/OR AS MAY BE REQUIRED TO CONTROL VIBRATION AND DEFLECTION OF AIR AND THE DRAWING SYSTEM.
  - f. PROVIDE INTERNAL SOUND INSULATION FROM AIR CONDITIONING UNIT TO LIMITS SHOWN ON DRAWINGS.
9. INSULATE PIPING AND RETURN AIR DUCTS IN CEILING SPACE WITH 1" THICK FIBERGLASS INSULATION WITH MOISTURE BARRIER / VAPOR DISPERGANT TO PREVENT CONDENSATION. 1" THICK FIBERGLASS INSULATION WITH MOISTURE BARRIER.
10. INSULATE OUTSIDE AIR DUCTS FOR DEHUMIDIFICATION, 1" THICK FIBERGLASS INSULATION WITH MOISTURE BARRIER.
11. MECHANICAL CONNECTIONS:
  - a. ALL MECHANICAL CONNECTIONS OF THE EQUIPMENT SHALL BE BY MECHANICAL CONNECTIONS.
  - b. 1.1. GAS PIPING - STANDARD WEIGHT BLACK STEEL PIPE WITH WELDABLE IRON FITTINGS, SCHEDULE 40S PER PIPING UP TO 2" PER 2.1/7 AND LARGER SHALL HAVE 12" AT CONNECTION OF 3/8" THEN OVER TO OWNER, TWO COMPLETE WATERTIGHT JUNCTIONS.
12. PROVIDE AIR BALANCING REPORT BY INDEPENDENT TESTING AGENCY.

1. THIS CHART IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
2. DRAWINGS SHALL NOT BE EXCALD.
3. CONTRACTORS, SUBCONTRACTORS, AND PERSONNEL FOR ALL OTHER PURPOSES SHALL NOT BE PERMITTED TO REMOVE OR TO TAKE ANYTHING FROM THE OFFICE WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
4. ATTENTION IS DRAWN TO PROVISIONS IN THE GENERAL CONDITIONS REGARDING CONTRACTOR'S RESPONSIBILITIES.
5. IN THE EVENT THE ENGINEER IS REQUIRED TO REVIEW SUCH DRAWINGS, SUCH REVIEW IS ONLY TO CHECK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS.
6. CONTRACTORS SHALL PROTECT, NOTIFY THE ENGINEER IN WRITING, THE CONTRACT DOCUMENTS AND ANY PERMITS, LICENSES, AND OTHER DOCUMENTS AND ANY PERMITS, LICENSES, AND OTHER DOCUMENTS FOR THE CONSTRUCTION OF THIS FACILITY.
7. THE ENGINEER'S NAME, ADDRESS AND TELEPHONE NUMBER ARE TO BE KEPT IN THE OFFICE.

DETAIL NUMBER

LOCATION SHEET

DETAIL SHEET

DATE (dd/mm/yy)	ISSUED FOR
05/05/17	BUILDING PERMIT

[illegible]

## PROPOSED BUILDING EXPANSION

301 CROFT DRIVE  
LAKESHORE, ONTARIO

CLIENT  
ECODEVELOPMENTS  
2015 INC.

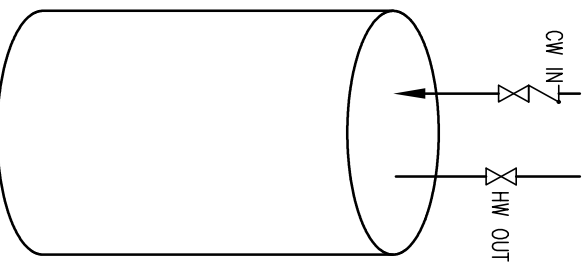
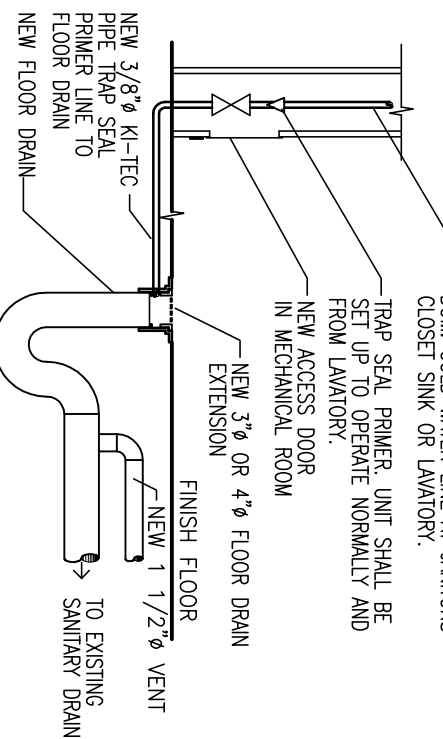
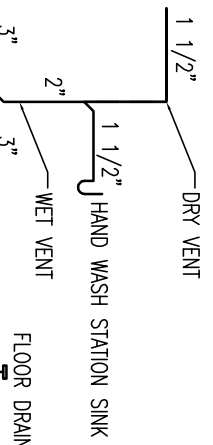
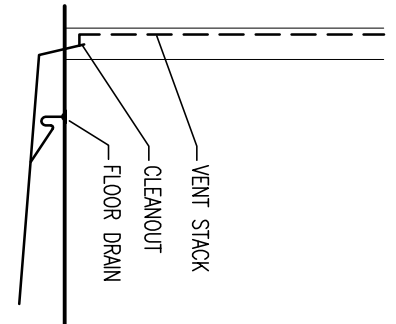
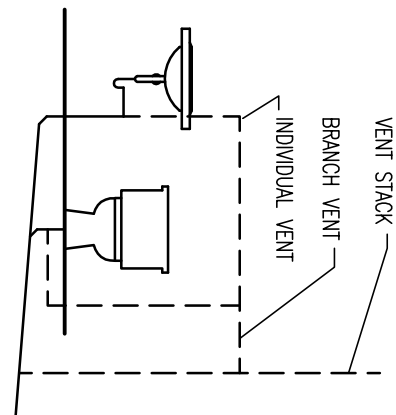
ECODEVELOPMENTS  
2015 INC.

DRAWING TITLE

## PLUMBING PLANS, DETAILS AND HVAC

DATE :	FEB. 2017
SCALE :	AS NOTED
DRAWN BY :	BC
CHECKED BY :	DCM
PROJECT FILE NO.	M17-103
DRAWING NO.	

# W.



ROOFTOP UNIT SCHEDULE																
	TAG	MAKE	MODEL	NOMINAL SPR (in. x g.)	S/A (CFM)	O/A (CFM)	HP	COOLING		HEATING			REMARKS			
	RU #1	YORK	ZT02A10N05	6.0	0.5	2,400	153	1 1/2	INPUT (MBH)	OUTPUT (MBH)	INPUT (MBH)	OUTPUT (MBH)	VOLUME	MCA	WEIGHT	
									-	-	-	-	575/2/60	-	640 lbs	SET OUTDOOR AIR TO MAX. 10% MAX. 15% C/W SINGLE STAGE HEAT / SINGLE STAGE COOL, 1" DISPERSEABLE FILTER, GLAZED STEEL DRAIN PAN, ROOF CURB OPTIONS SINGLE EXHAUST ECONOMIZER & MODS ON MANUAL OUTSIDE AIR DAMPER w/ MODS
	RU #2 & 3	YORK	ZT04B10N05	4.0	0.5	1,600	132	1 1/2	-	-	-	-	575/2/60	-	570 lbs	

EXHAUST FAN SCHEDULE			
TAG	MAKE	MODEL	— (CFM)
EFT	BROAN	—	ESP (in w.g.)
			100
			0.5

PLUMBING FIXTURE SCHEDULE					
FIXTURE	OW	HW	WASTE	VENT	MAKE
WATER CLOSET (GREATER FEE)	1/2"	-	3"	1 1/2"	AMERICAN STANDARD
URINAL	3/4"	-	2"	1 1/2"	AMERICAN STANDARD
WASHERY (BARRIER FREE)	1/2"	1/2"	1 1/4"	1 1/4"	AMERICAN STANDARD
FLOOR DRAIN	-	-	3"	1 1/2"	WATTS
CLEANOUTS	-	-	3"	-	WATTS
ROOF DRAIN	-	-	3"	-	WATTS
WASHERY TUB	1/2"	1/2"	1 1/2"	1 1/2"	TECHNOFORM
KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/2"	KNORR
NOTE: ALL PLUMBING FIXTURES TO BE CONFIRMED BY OWNER. PROVIDE SPECIFICATIONS FOR OWNER REVIEW					

**d.c. mccluskey engineering ltd.**  
200-5745 wynette street east, windsor, ontario n8s 1m6 tel (519) 977 6830

**200-5745 mynabille street east, windsor, ontario n8s 1m6 tel (519) 977 6800**