	ALCULATI	0.11		
1. AVAILABLE PRESSURE AT THE MANIFOLD				
FLOW REQUIRED FOR HOSE BIBBS	220	HECOM		
	220	USGPM		
FLOW REQUIRED FOR FIRE PROTECTION (2 HOSE STATIONS)	100	USGPM		
TOTAL REQUIRED FLOW	220	USGPM		
PRESSURE AVAILABLE AT CITY CONNECTION	110	PSI		
CITY CONNECTION ELEVATION ( DATUM: FLOAT LEVEL)	15	FT	6.5	PS
PRESSURE DROP IN PIPE RUN TO MANIFOLD FOR 4" HDPE				
PIPE (C FACTOR = 150)	14.58	PSI		
PRESSURE DROP IN THE DOUBLE CHECK VALVE	5	PSI		
DDECSLIDE AVAILABLE AT THE MANIEOLD	06.03	DOI		
PRESSURE AVAILABLE AT THE MANIFOLD MINIMUM RESIDUAL PRESSURE REQUIRED AT THE MOST REMOTE	96.92	PSI		
HOSE STATION	65	PSI		
PRESSURE DROP IN THE FIRE WATER LINE DOUBLE CHECK VALVE	5	PSI		
AVAILABLE PRESSURE DROP	26.9	PSI		
2. PIPE SIZING (GALVANIZED SCH.40 STAINLESS STEEL C=120)				
SEGMENT	1-2			
PIPE DIAMETER	4	INCH		
ADJUSTED PIPE RUN	135	FT		
FLOW	100	USGPM		
PRESSURE DROP	0.327	PSI		
SEGMENT	2 - 3			
PIPE DIAMETER	3	INCH		
FLOW	100	USGPM		
ADJUSTED PIPE RUN	330	FT		
PRESSURE DROP	3	PSI		
SEGMENT	3 - 4			
PIPE DIAMETER	3	INCH		
FLOW	100	USGPM		
ADJUSTED PIPE RUN	100	FT		
PRESSURE DROP	0.91	PSI		
SEGMENT	4 - 5			
PIPE DIAMETER	3	INCH		
FLOW	100	USGPM		
ADJUSTED PIPE RUN	231	FT		
PRESSURE DROP	14.36	PSI		
SEGMENT	5 - 6			
PIPE DIAMETER	3	INCH		
FLOW	50	USGPM		
ADJUSTED PIPE RUN	105	FT		
PRESSURE DROP	1.8	PSI		
3. SYSTEM VERIFICATIO				
	20.4	PSI		
TOTAL PRESSURE DROP				



(5)	45400		Entil	NEW FIRE PROTECT  DOUBLE HOSE BIE  FIRE HYDRANT S'  REDUCED PRESSURE BACK I  ISOLATION + BLOW O
21'x80' (G) (S) (C) (G) (C) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G	LEASE LINE		M-200	DRAWING LIST  SITE PLAN  EXISTING PLUMBING AND FIRE PROTECTION  PLUMBING AND FIRE PROTECTION LAYOUT
21'x80' 21'x80' 21'x80'				
(20) (20) (30) (4) (4) (5) (6) (7) (8) (9) (9) (1) (9) (1) (1) (1) (1) (1) (1) (1) (1				
20'x70' 20'x70	40 40 33 33 33 33			
MM) THE PORT	22'x90' (38)  22'x90' (38)  22'x90' (38)	LEASE LINE		
		SITE PLAN 1 SCALE: 1/64 = 1'-0" (M-100)		

LEGEND \_\_\_\_ EXISTING SANITARY LINE EXISTING COMBINED FIRE & WATER LINE \_----NEW DOMESTIC WATER LINE NEW FIRE PROTECTION LINE OSE BIB RISER RANT STATION BACK FLOW PREVENTER OW OUT VALVES

ECTION LAYOUT AYOUT

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www.tagengineering.ca

21 Mar, 2018

PROJECT No.

PROJECT

ROYAL VANCOUVER YACHT CLUB

950 STANLEY PARK DRIVE

VANCOUVER, BC

SITE PLAN AND LEGEND

13225 SCALE

CHECKED

NOTES:

1. THE INSTALLATION FOR ALL THE TESTABLE CROSS CONNECTION DEVICES TO CONFORM WITH THE CAN/CSA-B64 10.01 STANDARD.

2. ALL THE PIPING ON THE DISCHARGE SIDE OF A TESTABLE CROSS CONNECTION CONTROL DEVICE

TO BE LABELED TO CAN/CX65B24.3-92 STANDARD FOR IDENTIFICATION OF PIPING SYSTEMS. 3. ALL THE TESTABLE CROSS CONNECTION CONTROL DEVICES REQUIRE THE PERMANENT LAMACOID IDENTIFICATION TAGS (IE. RPBA-PREMISE ISOLATION, DCVA - LAWN IRRIGATION, ETC).

4. THE INSTALLATION OF AN INLINE STRAINER SHALL BE REQUIRED WHERE WATER CONTAINS FOREIGN MATERIAL THAT COULD LODGE ON OR ERODE SEATING SURFACES. 5. PROVIDE C.P. ESCUTCHEONS WHERE PIPING ENTERS/ EXITS WALL (TYP).

MIN 1'-0" (300mm) CLEARANCE ABOVE

REDUCED PRESSURE BACKFLOW 1" AIR GAP
PREVENTION ASSEMBLY C/W INTEGRAL INCREASER / FUNNEL

DEVICE SIZE AND OUTLET STANDPIPE & FUNNEL

STRAINER AND SHUT-OFF VALVES -

PROVIDE UNIT WITH S.S. CHECK MODULES FOR HOT WATER APPLICATIONS

> REDUCED PRESSURE BACKFLOW ASSEMBLY 2 SCALE: NOT TO SCALE M-100

WATER SUPPLY TO EQUIPMENT
REFER TO PLAN FOR CONTINUATION

— (6'-6") —

P-TRAP C/W

90° CHANGE OF DIRECTION

TRAP PRIMER

MAX OF 2 - 90° ELBOWS COPPER DRAIN LINES FASTENED TO WALL AND TERMINATED OVER HUB DRAIN OR FUNNEL FLOOR DRAIN (TYP)

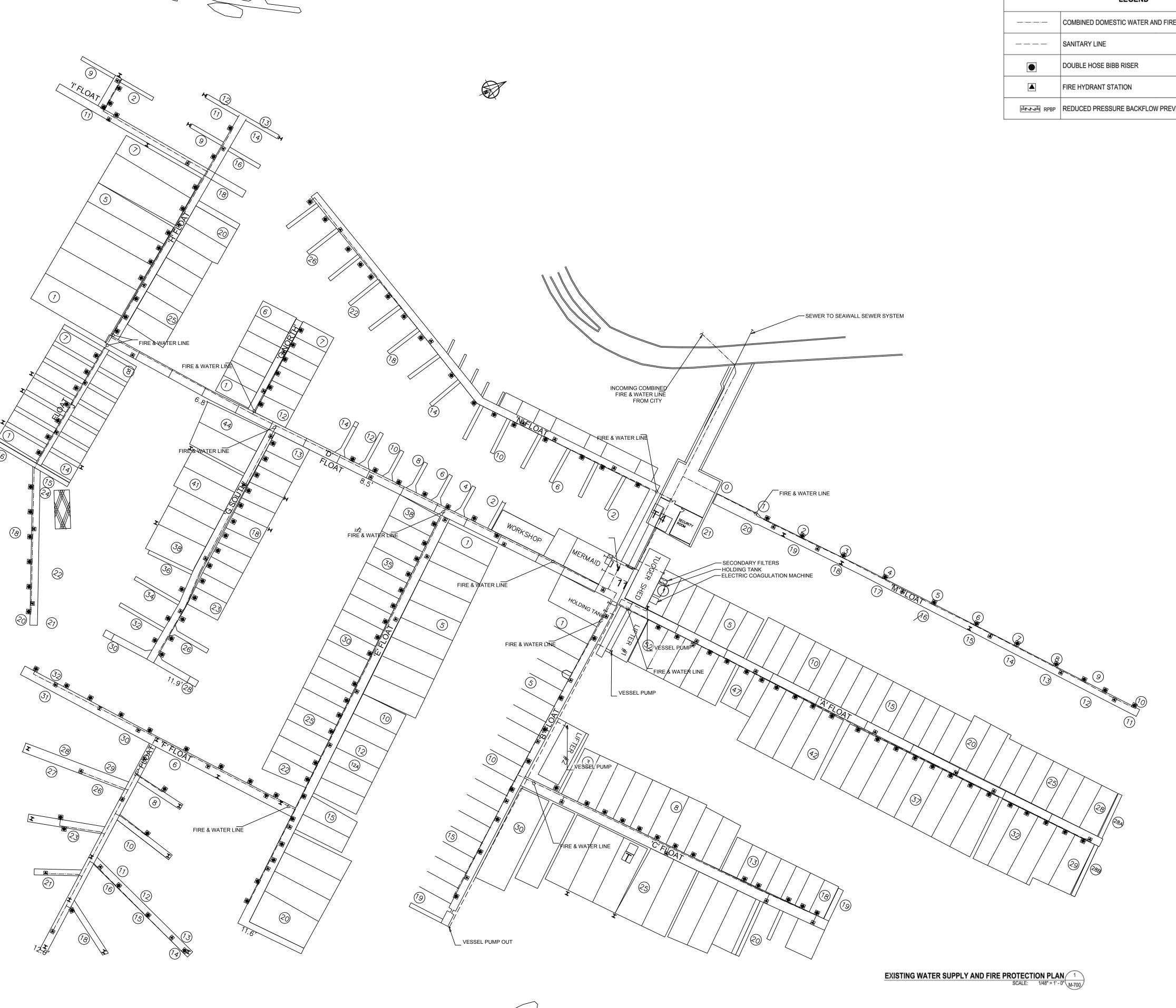
REDUCED FLOOR DRAIN DRAIN LINE SIZE OPEN PIPE TO OUTSIDE C/W 24" OF HUB DRAIN C/W 24" INLET VERTICAL DROP AT DEVICE PRIOR TO

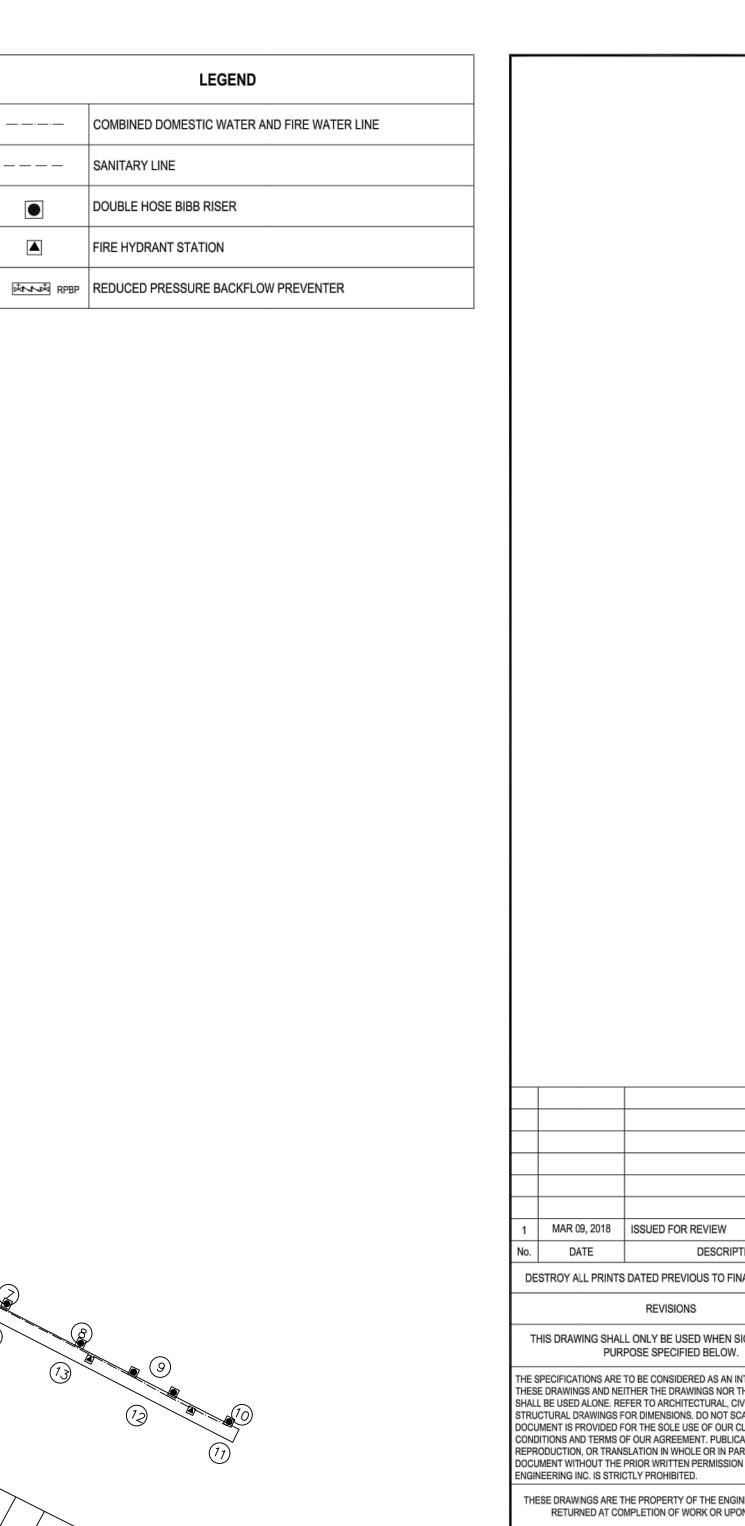
4 44 44

VALVE AND FLOOR

MIN. 2'-6" (750mm) A.F.F.

MAX. 5'-0" (1500mm) A.F.F.





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21 Mar, 2018

ROYAL VANCOUVER YACHT CLUB

950 STANLEY PARK DRIVE VANCOUVER, BC

21 Mar, 2018

EXISTING WATER SUPPLY AND FIRE PROTECTION PLAN

PROJECT No. CHECKED SCALE  $\frac{1}{48}$ " = 1' -0"



A	SIAMESE CONNECTION (FUTURE CONNECTION)	LEGEND	HDPE PIPE SIZING CHART  PIPE DIAMETER MAX FLOW (INCH) (GPM) MAX WFUV  1" 10 6	MAX NO. OF HB RISERS	DOMESTIC WATE  METHOD USED  DESIGN BASIS  FIXTURE UNIT VALUE PER RISER
EXISTING 4"Ø INCOMING COMBINED FIRE & WATER LINE FROM CITY (GALVANIZED STEEL)  2"Ø EXISTING SANITARY BOAT PUMP OUT	2"Ø EXISTING SANITARY BOAT PUMP OUT	NEW DOMESTIC WATER LINE  NEW FIRE PROTECTION LINE  DOUBLE HOSE BIB RISER  FIRE HYDRANT STATION  REDUCED PRESSURE BACK FLOW PREVENTER  ISOLATION + BLOW OUT VALVES	$\begin{array}{c ccccc}  & 1\frac{1}{4}^{\text{ll}} & 20 & 20 \\ \hline  & 1\frac{1}{2}^{\text{ll}} & 32 & 60 \\ \hline  & 2^{\text{ll}} & 60 & 174 \\ \hline  & 3^{\text{ll}} & 160 & 696 \\ \hline  & 4 & 300 & 1800 \\ \end{array}$	3 10 29 116 300	TOTAL FIXTURE UNIT VALUE FOR 192 RISERS  TOTAL REQUIRED FLOW  LONGEST PIPE RUN  (WITH PROVISION FOR FUTURE CONNECTIONS)  TOTAL DEVELOPED LENGTH  REQUIRED RESIDUAL PRESSURE AT THE MOST DE  AVAILABLE PRESSURE AT CITY CONNECTION  MAX ALLOWABLE PRESSURE DROP  MAX USED PRESSURE DROP  PIPE MATERIAL
FLOAT "N"					······································
	4"Ø EXISTING COMBINED GALVANIZED WATER LINE (HEAT TRACED GALVANIZED STEEL)  4"Ø DRY LINE FROM SIAMESE ON TRESTLE HEAD (FUTURE)  4"Ø 2"Ø EXISTING COMBINED GALVANIZED LINE TO FLOAT "M"  FWL  FROM SIAMESE CONNECTION				
CONNECT 1½" Ø DCW TO EXISTING DCW TO MERMAID RESTAURANT MERMAID SEWER HOLDING TANK 2"Ø HB DCW TO FLOAT "D" 3"Ø HB DCW TO FLOAT "E"	2"Ø FLOAT "A"  13X2=26 HBs  TOTAL 78 WSFU  3469AHB  DRW  COMBINED FIRE & DCW LINE  TO FLOAT "A"  TO FLOAT "A"  13X2=26 HBs  TOTAL 78 WSFU  4"Ø DCW - FIRE				
3"Ø EXISTING COMBINED FIRE+DCW LINE TO REMAIN NEW 3"Ø EXISTING HB DCW LINE FOR FUTURE CONNECTION	1"Ø BLOW OUT VALVE 2"Ø ISOLATION VALVE (FUTURE HB LINE DCW)				
FLOAT "A"+"B"  13X2=26 HBS  TOTAL 78 WSFU	3"Ø FWL  2"Ø EXISTING SANITARY BOAT PUMP OUT				
1½"Ø ISOLATION VALVE 1"Ø BLOW OUT VALVE	2"Ø DCW (108 WSFU)	2"Ø FWL 6	1"Ø DCW (6 WSFU)  1"Ø DCW (6.0) RISER  SERVING 2 HOSE BIBS <sup>3</sup> / <sub>4</sub> "Ø  (3 WSFU) EACH.  (TYP.)  — 1"Ø BLEED VALVE		
FLOAT "B-2" 5X2=10 HBs 30 WSFU	3"Ø FWL 2"Ø HB DCW FLOAT "C" 15X2=30 HBs (90 WSFU) 1½"Ø DCW (24 WSFU)	1 1/4"Ø DCW (18 W	1"Ø DCW (6 WSFU) RUNNING IN CONCRETE FLOAT TO THE OTHER SIDE. COORDINATE WITH FLOAT SUPPLIER FOR ACTUAL LOCATION. (TYP.)		
	2"Ø EXISTING SANITARY BOAT PUMP OUT				
1"Ø DCW (6.0) RISER SERVING 2 HOSE BIBS ¾"Ø (3 WSFU) EACH. (TYP.)	1"Ø DCW (6 WSFU)  1"Ø BLEED VALVE				

DOMESTIC WATER PIPE SIZING				
METHOD USED	DETAILED ENG	INEERING		
DESIGN BASIS				
FIXTURE UNIT VALUE PER RISER	6	FU		
TOTAL FIXTURE UNIT VALUE FOR 192 RISERS	1152	WFUV		
TOTAL REQUIRED FLOW	227	GPM		
LONGEST PIPE RUN (WITH PROVISION FOR FUTURE CONNECTIONS)	2000	FT		
TOTAL DEVELOPED LENGTH	3000	FT		
REQUIRED RESIDUAL PRESSURE AT THE MOST DEMANDING HB	15	PSI		
AVAILABLE PRESSURE AT CITY CONNECTION	110	PSI		
MAX ALLOWABLE PRESSURE DROP	3.17	PSI/100 FT		
MAX USED PRESSURE DROP	3	PSI/100 FT		
PIPE MATERIAL	HDPE			
		-		

	DOMESTIC WAT	ER - FIXTURE COU	INT TABLE
G	3/4" HOSE BIBB FIXTURE U	JNIT VALUE = 3 FU	
	NO. OF HB PER RISER = 2		
	WSFU PER RISER = 3 FU		
v	FLOAT	NO. OF RISERS	WSFU
1	FLOAT "A"	27	162
	FLOAT "B"	10	60
	FLOAT "C"	15	90
	FLOAT "D"	8	48
	FLOAT "E"	22	132
	FLOAT "F"	6	36
) FT	FLOAT "G" - NORTH	4	24
) FT	FLOAT "G" - SOUTH	19	114
	FLOAT "H"	13	78
	FLOAT "I"	5	30
	FLOAT "K"	26	156
	FLOAT "M"	20	120
	FLOAT "N"	15	90
	MAIN FLOAT	2	12
	TOTAL	192	1152

### GENERAL NOTES

$\dashv$	1.	ALL PIPING MATERIALS SHALL CONFORM TO THE B.C.B.C. 2012 EDITION.
$\dashv$	2.	ALL SANITARY AND DOMESTIC WATER SHOWN AGAINST EXTERIOR AND DEMISING WALLS SHAL
$\dashv$		BE FURRED IN AND INSTALLED ON WARM SIDE OF INSULATION AND VAPOR BARRIER. WHERE
4		FURRING IS NOT PRESENT, PROVIDE CAVITY WITHIN BATT-INSULATED WALL FORMED FROM RIC
		FOAM INSULATION AND SEAL AIRTIGHT AROUND INSULATED PIPE.

- 3. PRIOR TO COMMENCING ANY PIPING INSTALLATION WITHIN THE BUILDING, THE MECHANICAL CONTRACTOR MUST CHECK THE SIZES, LOCATION, AND INVERT ELEVATIONS OF ALL CAPPED SERVICES, INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH THE CIVIL RECORD DRAWINGS TO ENSURE THAT THESE BUILDING SERVICES CAN BE INSTALLED AS SHOWN.
- 4. COORDINATE ALL PIPE SLEEVE PLACEMENT WITH GENERAL CONTRACTOR.
- 5. FIRE STOP ANY PIPES THAT PENETRATE FIRE SEPARATIONS AND SLAB. FIRESTOPPING SHALL COMPLY WITH CAN4-S115-M85 STANDARD.
- COMPLY WITH CAN4-S115-M85 STANDARD.

  6. ALL DHW AND DCW FIXTURES AND BRANCH LINES TO BE COMPLETE WITH ISOLATION VALVES.

EXISTING GALVANIZED PIPE FROM CITY CONNECTION — (HEAT TRACED)

4"Ø FWL FROM

FLOAT "N" & "M" (TYP.)

— 1"Ø BLOWOUT VALVE - FIRE

2"Ø SHUT OFF VALVE

CONNECT NEW GALVANIZED

2"Ø HB DCW

— 3/4"Ø HB DCW

FLOAT "A"

\_\_ 1"Ø BLOWOUT VALVE - FIRE

1"Ø BLOWOUT VALVE - HB DCW

·—·<del>"A" "B" "C</del>"—·—·—·—

4"Ø DCWL —

PIPE FROM CITY CONNECTION

SIAMESE —

#### SEISMIC NOTE

1. MECHANICAL CONTRACTOR TO PROVIDE STRUCTURAL SEISMIC RESTRAINTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT TO THE SATISFACTION OF THE SEISMIC ENGINEER. COORDINATE MOUNTING TO BUILDING STRUCTURE WITH THE BUILDING STRUCTURAL ENGINEER.

2. ENGAGE THE SERVICES OF A SEISMIC RESTRAINT ENGINEER TO PROVIDE DETAILS, FIELD REVIEWS AND LETTER OF ASSURANCE AND COMPLIANCE FOR MECHANICAL RELATED EQUIPMENT AND CONNECTED SERVICES. LETTER OF ASSURANCE AND COMPLIANCE TO BE PROVIDED PRIOR TO OCCUPANCY AND SUBSTANTIAL COMPLETION. ALSO, REFER TO SPECIFICATIONS.



EXISTING 4" Ø RPBP

11/4" Ø DCW TO \_

WASHROOM

FOR HOSE BIBs

(1100 WSFU)

4" Ø RPBP FOR DCW

— 3"Ø HB DCW TO FLOAT "E"

\_.\_....

(RELOCATED) FOR EXISTING

1½ " Ø RPBPA \_

1"Ø BLOWOUT \_ VALVE - HB DCW

MERMAID

HOLDING TANK

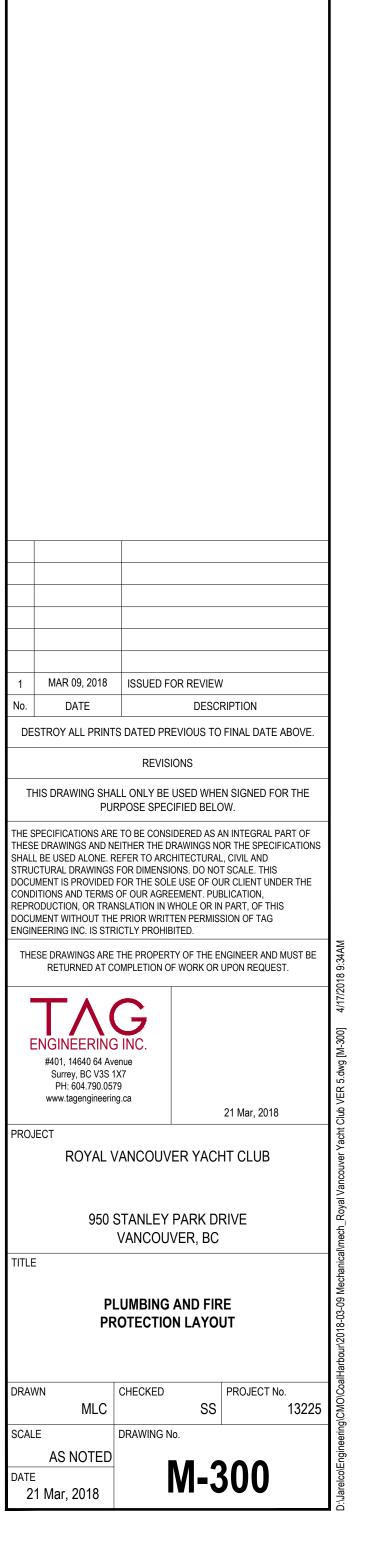
SEWER -

2"Ø HB DCW- /

CONNECT 1½" Ø DCW TO EXISTING \_ DCW TO MERMAID RESTAURANT

TO FLOAT "D"

"COMBINED - FIRE+DCW" AND FUTURE "FIRE"



# **DOMESTIC WATER - FIXTURE COUNT TABLE**

 $\frac{3}{4}$ " HOSE BIBB FIXTURE UNIT VALUE = 3 FU

NO. OF HB PER RISER = 2

WSFU PER RISER = 3 FU

FLOAT	NO. OF RISERS	WSFU
FLOAT "A"	27	162
FLOAT "B"	10	60
FLOAT "C"	15	90
FLOAT "D"	8	48
FLOAT "E"	22	132
FLOAT "F"	6	36
FLOAT "G" - NORTH	4	24
FLOAT "G" - SOUTH	19	114
FLOAT "H"	13	78
FLOAT "I"	5	30
FLOAT "K"	26	156
FLOAT "M"	20	120
FLOAT "N"	15	90
MAIN FLOAT	2	12
TOTAL	192	1152

HDPE PIPE SIZING CHART				
PIPE DIAMETER (INCH)	MAX FLOW (GPM)	MAX WFUV	MAX NO. OF HB RISERS	
1"	10	6	1	
1 1/4"	20	20	3	
1 ½"	32	60	10	
2"	60	174	29	
3"	160	696	116	
4	300	1800	300	

LEGEND			
	EXISTING SANITARY LINE		
	EXISTING COMBINED FIRE & WATER LINE		
	NEW DOMESTIC WATER LINE		
·	NEW FIRE PROTECTION LINE		
	DOUBLE HOSE BIB RISER		
	FIRE HYDRANT STATION		
	REDUCED PRESSURE BACK FLOW PREVENTER		
	ISOLATION + BLOW OUT VALVES		

### **GENERAL NOTES**

- 1. ALL PIPING MATERIALS SHALL CONFORM TO THE B.C.B.C. 2012 EDITION.
- 2. ALL SANITARY AND DOMESTIC WATER SHOWN AGAINST EXTERIOR AND DEMISING WALLS SHALL BE FURRED IN AND INSTALLED ON WARM SIDE OF INSULATION AND VAPOR BARRIER. WHERE FURRING IS NOT PRESENT, PROVIDE CAVITY WITHIN BATT-INSULATED WALL FORMED FROM RIGID FOAM INSULATION AND SEAL AIRTIGHT AROUND INSULATED PIPE.
- 3. PRIOR TO COMMENCING ANY PIPING INSTALLATION WITHIN THE BUILDING, THE MECHANICAL CONTRACTOR MUST CHECK THE SIZES, LOCATION, AND INVERT ELEVATIONS OF ALL CAPPED SERVICES, INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH THE CIVIL RECORD DRAWINGS TO ENSURE THAT THESE BUILDING SERVICES CAN BE INSTALLED AS SHOWN.
- 4. COORDINATE ALL PIPE SLEEVE PLACEMENT WITH GENERAL CONTRACTOR.
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- 6. ALL DHW AND DCW FIXTURES AND BRANCH LINES TO BE COMPLETE WITH ISOLATION VALVES.

## **SEISMIC NOTES**

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DOMESTIC WATER PIPE SIZING			
METHOD USED	DETAILED EN	GINEERING	
DESIGN BASIS			
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