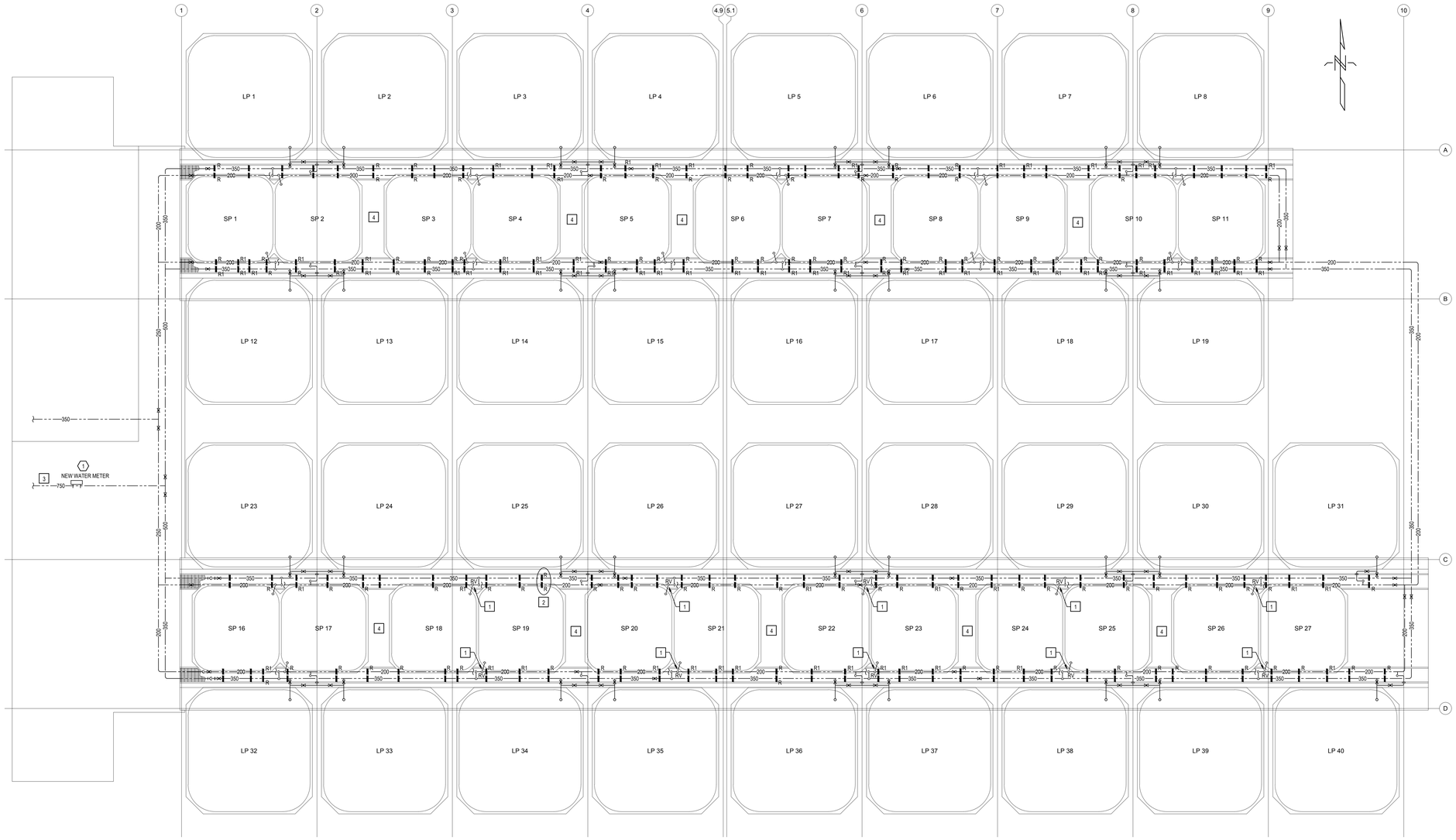


LEFT WING AND RIGHT WING POND BUILDING PLAN – WATER PIPING LAYOUT

SCALE : 1:150

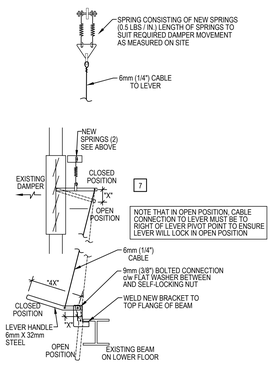
0m 5m 10m 15m

LEGEND

200	200 WELL WATER (EXISTING)
350	350 HEADPOND WATER (EXISTING)
200	200 VALVE (EXISTING)
350	350 VALVE (EXISTING)
200	200 STRAP (EXISTING)
350	350 STRAP (EXISTING)
R	REPLACE 200 STRAP
R	REPLACE 350 STRAP
R1	REPLACE 200 NUTS, WASHERS, CLEAN THREADS
R1	REPLACE 350 NUTS, WASHERS, CLEAN THREADS
RV	REPLACE 100 BUTTERFLY VALVE
PVC	POLYVINYL CHLORIDE PIPE
DI	DUCTILE IRON PIPE
HDG	HOT DIPPED GALVANIZED
SS	STAINLESS STEEL
SP 1	SMALL POND #1
LP 1	LARGE POND #1

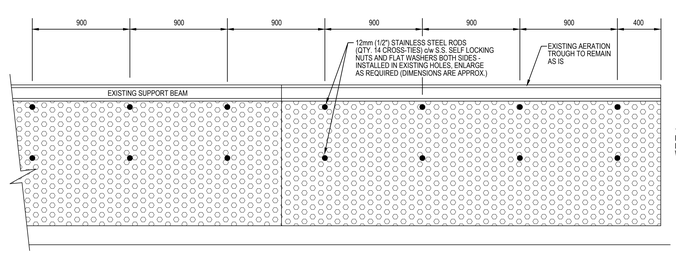
KEYNOTES

1. EXISTING 100mm (4") BUTTERFLY VALVE LOCATED IN THE VERTICAL SECTION OF PIPING INTO TANK TO BE REMOVED AND NEW BUTTERFLY VALVE INSTALLED IN SAME LOCATION.
2. INSTALL NEW PIPE SUPPORT STRAPS AT THIS LOCATION.
3. REMOVE RUST AND REPLACE FLANGE BOLTS IN WESTMOST SECTION OF 750mm DIA. PIPING (APPROX. LENGTH 900mm - 3'-0") WITH HEAVY SURFACE CORROSION AND REPAINT WITH PRIME COAT AND TWO (2) COATS OF RUST PAINT. SAWCUT AND CHIP INTO THE CONCRETE WALL MINIMUM 60mm (2 3/8") DEEP AND REMOVE THE MINIMUM AMOUNT OF CONCRETE TO EXPOSE 32 BOLT HEADS EMBEDDED IN THE WALL USING A TORCH, CUT THE BOLT HEAD AND REMOVE THE BOLTS ONE AT A TIME USING THE MATERIALS SPECIFIED. BOLT HEADS TO BE ORIENTED TOWARDS BUILDING INTERIOR. TORQUE BOLTS TO 895 N-m (660 ft-lbf). REPAIR EXISTING FOAM SEALANT AS REQUIRED IF DAMAGED DURING CONSTRUCTION. INSTALL NEW WATER METER (LOCATION OF METER AND READOUT PANEL TO BE DETERMINED ON SITE).
4. INSPECT EXISTING FISH TANK DRAIN PIPING HANGER SUPPORTS LOCATED WITHIN CRAWL SPACE UNDER TANKS. REPAIR AND/OR REPLACE HANGERS AS SHOWN.
5. INSTALL NEW WALL MOUNTED EXHAUST FAN INSIDE BUILDING IN EXISTING OPENING AFTER LOUVER IS REMOVED AS SHOWN. SEAL PENETRATION WEATHERTIGHT. PROVIDE NEW MOTORIZED DAMPER, MOTOR SIDE GUARD AND 18 GAUGE GALVANIZED INLET WEATHER HOOD.
6. REMOVE SURFACE CORROSION ON EXISTING PIPING. EXPOSED SURFACES TO BE PRIMED AND TWO (2) COATS OF ANTI-RUST PAINT (COLOR TO MATCH EXISTING), PAINT TO BE NON-TOXIC TO FISH (SEE PAINT SPECIFICATIONS).
7. REMOVE EXISTING DAMPER LINKAGE SPRING, CHAIN HOOKS, ETC. LUBRICATE AND REPAIR DAMPER LINKAGE ASSEMBLY AS REQUIRED TO ALLOW FOR SMOOTH OPERATION. INSTALL NEW STIFFER DAMPER LINKAGE SPRINGS (2 PER DAMPER). FABRICATE AND INSTALL NEW STEEL LEVER HANDLE ASSEMBLY (WELDED TO TOP FLANGE OF EXISTING STEEL BEAM) AND CONNECT 6mm (1/4") DIA. STEEL CABLE TO DAMPER LINKAGE AND LEVER HANDLE. LEVER HANDLE TO BE SELF LOCKING (OVER CENTER) IN THE DOWN POSITION (DAMPER OPEN). REFER TO DAMPER LINKAGE ASSEMBLY DETAIL ON THIS DRAWING.
8. REMOVE EXISTING ANGLE GEARBOXES (5 TOTAL), CROSS SHAFTS, RISER STEMS, WHEEL HANDLES, ETC.
9. INSTALL NEW ANGLE GEARBOXES IN EXISTING LOCATIONS c/w NEW CROSS SHAFT AND RISER STEM EXTENSIONS, WHEEL HANDLES AND SHAFT COUPLINGS. SECURE RISER STEMS TO EXISTING RAILING WITH WHEEL HANDLES ABOVE RAILING AS EXISTING. TOTAL OF 5 REQUIRED.
10. EXISTING RIVER WATER AERATION TROUGH TO REMAIN AS IS.
11. REMOVE SURFACE CORROSION ON EXISTING PIPING IN UPPER WELL WATER AERATION CHAMBER. EXPOSED SURFACES TO BE PRIMED AND TWO (2) COATS OF ANTI-RUST PAINT (COLOR TO MATCH EXISTING), PAINT TO BE NON-TOXIC TO FISH (SEE PAINT SPECIFICATIONS).

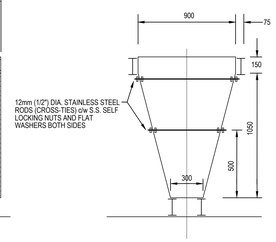


EXHAUST DAMPER LINKAGE ASSEMBLY

SCALE : N.T.S.



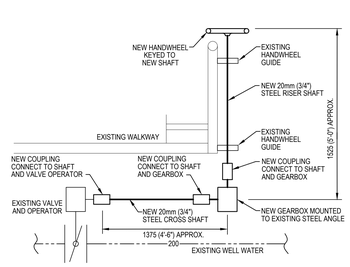
NOTE:
ALL DIMENSIONS ARE APPROXIMATE.
CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO FABRICATION.



EXISTING WATER INLET AERATION TROUGH

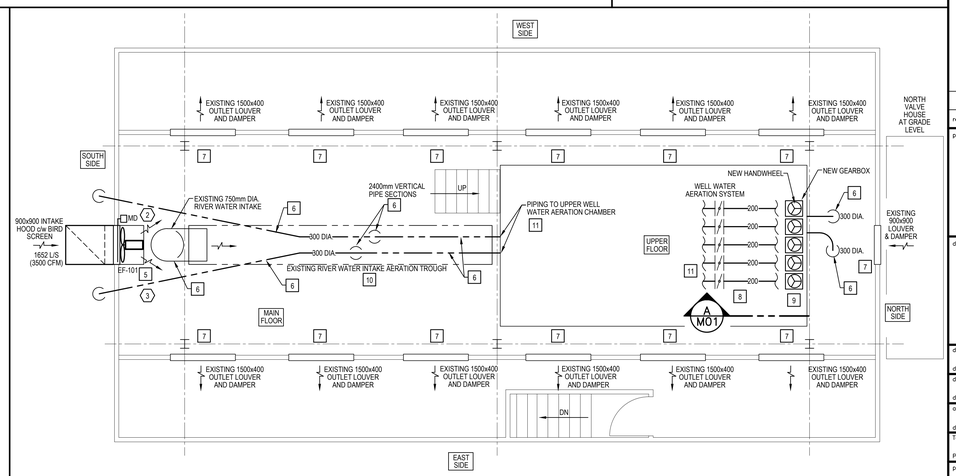
SCALE : 1:20

0mm 500mm 1000mm 1500mm 2000mm 2500mm



A / M01 AERATION SPRAY VALVE OPERATORS

SCALE : N.T.S.



AERATION BUILDING PLAN – WATER PIPING LAYOUT

SCALE: 1:50

0m 1m 2m 3m 4m 5m

0 10 20mm 40 60 80 100 120 140 160 180 200mm

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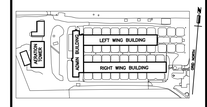

KEY PLAN

GENERAL NOTES

1. EXISTING FACILITY WILL BE OCCUPIED DURING CONSTRUCTION PERIOD FOR EXECUTION OF NORMAL OPERATIONS. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE (D.R.) IN SCHEDULING OPERATIONS TO MINIMIZE DISRUPTION AND FACILITATE USAGE.
2. SURFACES OF EXISTING FACILITY CONTAIN LEAD PAINT. CARE MUST BE TAKEN NOT TO DISTURB OR DAMAGE EXISTING FACILITY SURFACES.
3. EXISTING HAZARDOUS MATERIAL REPORT, "HAZARDOUS MATERIALS ASSESMENT REPORT-FISH CULTURE CENTRE-MACTAQUAC, N.B.-AUGUST 28, 2015", TO BE PROVIDED BY D.R.
4. ANY SHUTDOWN TO ENABLE WORK WILL BE LIMITED TO SPECIFICALLY TIMED AND SCHEDULED LOCATIONS. ALLOW BUSINESS CONTINUITY.
5. MOST TANKS WILL CONTAIN FISH STOCK.
6. PROVIDE PROTECTIVE AND CONTAINMENT MECHANISMS TO CAPTURE MATERIALS TO PREVENT SOLID AND/OR LIQUID CONTAMINATION, AND OBJECTS FROM FALLING INTO WATER OR TANKS.
7. TYPE OF PROTECTION AND CONTAINMENT MECHANISMS TO BE APPROVED BY THE D.R. PRIOR TO USE.
8. CUTTING AND PATCHING OF ALL MATERIALS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. CONNECTIONS INTO THE EXISTING SYSTEMS TO BE COORDINATED AND APPROVED BY THE D.R., SUBMIT REQUEST FOR CONNECTION SCHEDULE IN WRITING TO THE D.R.
10. CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEANUP OF WORK AREAS AFTER COMPLETION.
11. CONTRACTOR TO COORDINATE ALL ELECTRICAL WORK REQUIRED WITH THE D.R. ELECTRICIAN.

0	RELEASED FOR CONSTRUCTION	NOV/05 2019
revisions		date

project / projet

WATER SITE SERVICES UPGRADES MACTAQUAC FISH HATCHERY FRENCH VILLAGE, NB

drawing / dessin

FLOOR PLANS AND DETAILS (R.098285.001)

designed	JTD	concu
date	NOV-04-2019	
drawn	RDD	dessiné
date	NOV-04-2019	
approved	JTD	approuvé
date	NOV-04-2019	
Tender		Soumission

PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet: **R.098285.001**

drawing no. / no. du dessin: **M01**

PWGSC AO (2004)

E-DRM/GDD-E: 552817 Version 2