

Memo

CRD

PURPOSE: Gardom Pond Decommissioning Design Brief **AMENDMENT**

FROM: Ben Martin, P.Eng
Senior Project Engineer, Facilities Management & Engineering Services

DATE: March 4, 2019 **FILE:** 16-1856

SUBJECT: **Gardom Pond Dam Decommissioning/Naturalization Design Brief – Breach at Original Stream Channel**

Further to the January 23, 2018 design brief outlining a breach scenario at the existing spillway location, please accept this amended brief outlining a breach scenario at the original stream channel. Due to issues regarding land encumbrances the previously proposed design to breach at the existing spillway has been abandoned. The CRD has developed this dam decommissioning concept in consultation with the following stakeholders:

- a. The six water license holders held on Gardom Pond dam
- b. The Ministry of Forests, Lands, Natural Resource Operations & Rural Development (FLNRO) regional Dam Safety Officer, John Baldwin
- c. The Ministry of Transportation and Infrastructure (MoTi) South Island Operations Manager, Ryan Evanoff
- d. Land Owners at 6606 Harbour Hill Drive, [REDACTED]

The decommission work is planned to eliminate the storage of water that requires a water license under the BC Water Sustainability Act (WSA) for a dam. The current dam naturalization/decommission proposal provides for the original stream outlet channel to be reinstated (see attached project drawings).

The decommissioning effort will involve modifications to the existing dam embankment, extending across 6606 Harbour Hill Drive (Owned by [REDACTED] and fortifying the existing stream outlet channel extending to the tie-in point into the MoTi owned Harbour Hill Drive Road right-of-way (RROW).

The channel is to pass a 200-year period future design flow of 0.215 m³/s. The pond will be effectively lowered to the original invert of the stream bed El. 84 m. The current pond surface elevation fluctuates seasonally between approximately El. 85-86 m. The dam crest is at El. 87 m.

The proposed outlet channel would be cut into the existing dam embankment with a 900 mm culvert (inlet invert 84 m, outlet invert 83.9 m) with the downstream channel extending approximately 160 meters to the Harbour Hill Drive RROW (El. 42 m). At the tie-in point a 0.9 m sump, lined with riprap, will be instated. The stream outlet channel would be riprapped with 150 mm nominal riprap over a geotextile filter cloth and measure 3 m wide by 0.45 m deep.

Harbour Hill Drive was constructed by MoTi after the construction of the Gardom Pond dam and the roadway construction design considered the existing surface run-off and spillway flow from

Memo

The logo for CRD (City of Regina Development) is located in the top right corner of the header area. It consists of the letters 'CRD' in a stylized, bold, sans-serif font, positioned above a dark, wavy horizontal line that spans across the header.

Gardom Pond and the area catchment. MoTi acknowledges and accepts the CRD proposal to limit the extent of construction to the entrance point to the Harbour Hill Drive RROW with regard to the proposed decommissioning work. CRD's obligation will be to ensure the outlet flow is suitably discharged into the RROW.

However, due to anticipated future flow intensities greater than the 200-year period due to climate change, modifications will be undertaken further downstream. Accordingly, as part of the decommissioning work, a 600 mm culvert will be installed within the RROW at the junction of Harbour Hill Drive and Razor Point Road. In addition, drainage improvements will be undertaken at 6618 Razor Point Road which will include replacing two 400 mm culverts with 600 mm culverts and fortifying the existing outlet channel.

The existing dam embankment will be lowered by 0.35 m and remain in place and continue to serve as an access road to 6604 and 6602 Harbour Hill Drive. The existing low level outlet pipe extending through the dam embankment will be sealed with concrete. The existing 6" dry hydrant located on Gardom Lane directly to the west of the dam embankment will remain operational. An updated environmental impact assessment of the lowering of the water level in Gardom Pond is underway.

Regards,

A handwritten signature in blue ink, appearing to read 'Ben Martin', is written over a long, thin blue horizontal line that extends across the page.

Ben Martin, P.Eng.
Senior Project Engineer
Facilities Management & Engineering Services

Attachment(s): Dam Decommissioning Drawings

CC: Joshua Frederick, Manager, Facilities Management & Engineering Services
Steve May, Senior Manager, Facilities Management & Engineering Services

CAPITAL REGIONAL DISTRICT

**GARDOM POND, NORTH PENDER ISLAND
DAM NATURALIZATION**

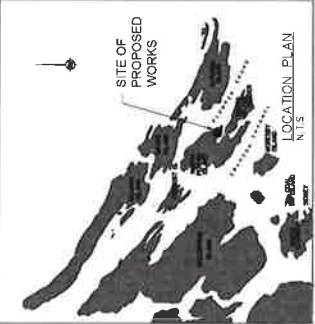
CONTRACT 16-1856C

LIST OF DRAWINGS	
DWG. No.	TITLE
27-M156-C1	DRAINAGE AREA PLAN / SITE PLAN
27-M156-C2	POND OUTLET PLAN AND PROFILE
27-M156-C3	DAM AREA DETAILS
27-M156-C4	DOWNSTREAM WORKS / DETAILS / SILT CONTROL



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Capital Regional District | Parks & Environmental Services
625 Fisgard Street, PO Box 1000
Victoria, BC V8W 2S6



GENERAL NOTES:

- THE LOCATIONS AND DIMENSIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL SERVICES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY.
- THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR TO A MINIMUM OF 3 METERS PRIOR TO ANY WORK.
- THE LOCATION OF UNDERGROUND SERVICES IS BASED ON SURFACE INDICATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL SERVICES PRIOR TO CONSTRUCTION.
- ALL PROPOSED SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SERVICES AND SHALL BE REQUIRED TO REPAIR OR REPLACE ANY SERVICES DAMAGED OR DESTROYED BY THE PROPOSED WORKS.

SEWERAGE NOTES:

- ALL WORK TO CIVIL NETWORKS MUST BE INSTALLED TO THE APPROPRIATE STANDARD AND SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
- ALL NEW SEWERAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
- ALL EXISTING SEWERAGE SHALL BE MAINTAINED AND REPAIRED AS NECESSARY.
- ALL SEWERAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.

WATER SUPPLY NOTES:

- ALL WATER SUPPLY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
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- ALL EXISTING WATER SUPPLY SERVICES SHALL BE MAINTAINED AND REPAIRED AS NECESSARY.
- ALL WATER SUPPLY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.

ROADS AND DRIVEWAYS:

- ALL ROADS AND DRIVEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
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- ALL EXISTING ROADS AND DRIVEWAYS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY.
- ALL ROADS AND DRIVEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.

POWER AND TELECOMMUNICATIONS:

- ALL POWER AND TELECOMMUNICATIONS SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
- ALL NEW POWER AND TELECOMMUNICATIONS SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
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- ALL POWER AND TELECOMMUNICATIONS SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.

ENVIRONMENTAL NOTES:

- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE ENVIRONMENT AND TO MINIMIZE ANY ADVERSE IMPACTS.
- ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH THE APPROPRIATE REGULATIONS.
- ALL WATER POLLUTION SHALL BE PREVENTED AND ANY POLLUTION SHALL BE REMOVED AS SOON AS POSSIBLE.
- ALL AIR POLLUTION SHALL BE PREVENTED AND ANY POLLUTION SHALL BE REMOVED AS SOON AS POSSIBLE.

CONSTRUCTION METHOD STATEMENTS:

- ALL CONSTRUCTION WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION METHOD STATEMENTS.
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JEA
J.E. ANDERSON & ASSOCIATES
 SURVEYORS & ENGINEERS
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 TEL: 780 255 2555
 E-MAIL: jon@jeaanderson.com

LEGEND

NO.	REVISION DESCRIPTION	DATE	CHECK	APPROVE
1	ISSUED FOR TENDER	FEB 17/18	JB	
2	ISSUED FOR CONSTRUCTION	FEB 17/18	JB	
3	REVISED FOR COMMENTS	FEB 17/18	JB	
4	REVISED FOR COMMENTS	FEB 17/18	JB	
5	REVISED FOR COMMENTS	FEB 17/18	JB	
6	REVISED FOR COMMENTS	FEB 17/18	JB	
7	REVISED FOR COMMENTS	FEB 17/18	JB	
8	REVISED FOR COMMENTS	FEB 17/18	JB	
9	REVISED FOR COMMENTS	FEB 17/18	JB	
10	REVISED FOR COMMENTS	FEB 17/18	JB	

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VP 53831, UP 38342,
 AUG 07 2015

LEGAL DESCRIPTION
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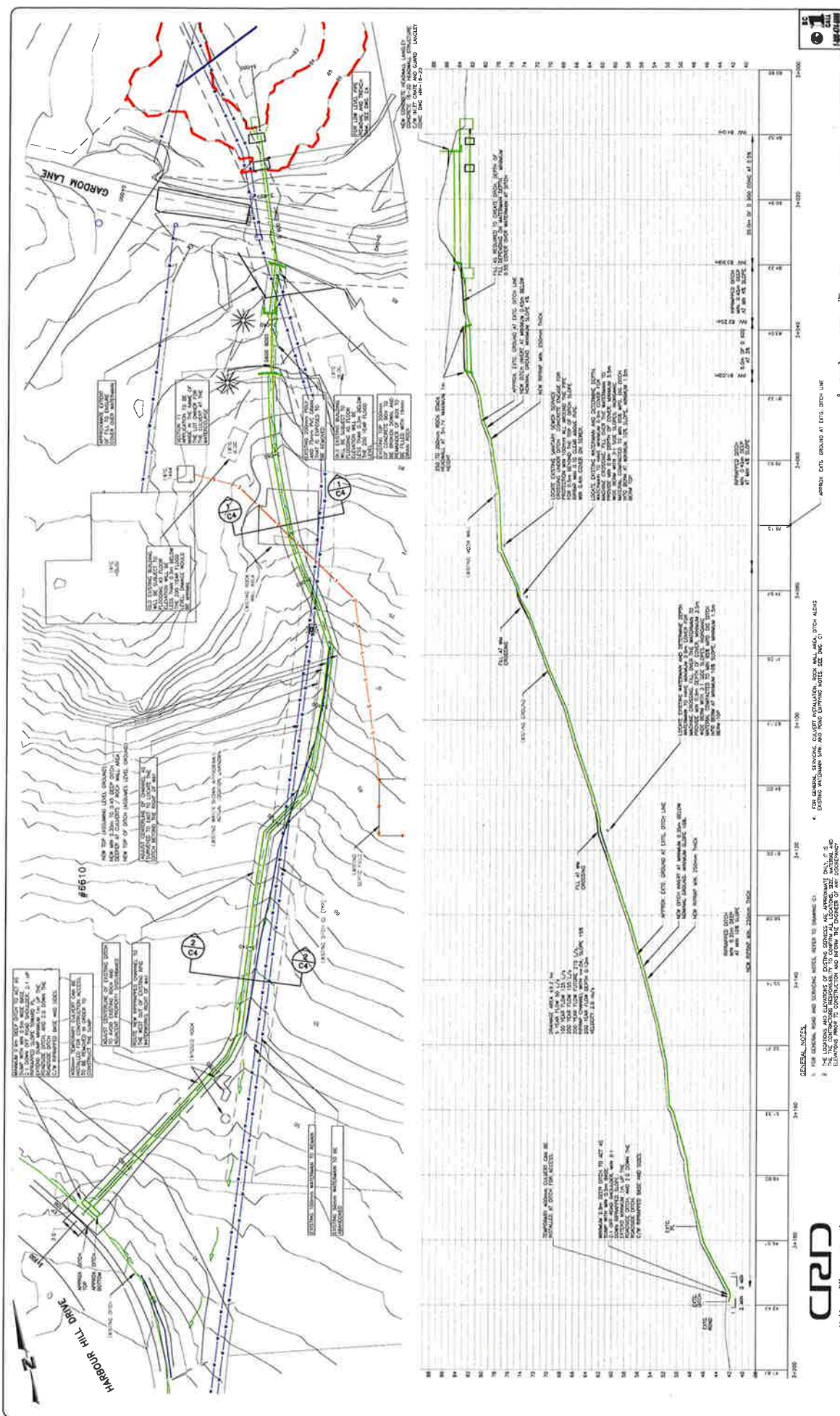
PROJECT DRAWING

PROJECT REGIONAL DISTRICT
 PARKS AND ENVIRONMENTAL SERVICES
 GARDOM POND, NORTH PENNER ISLAND
 OAM UTILIZATION
 DRAWING NO. 16-18856
 CONTRACT # 16-18856
 27-M156-C1
 ISSUE 1



GENERAL NOTES:

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND REGULATIONS.
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VP 53831, VP 54342,
AND VP 28575

ELEVATIONS ARE GEODETIC AND TO HANDED

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& ASSOCIATES
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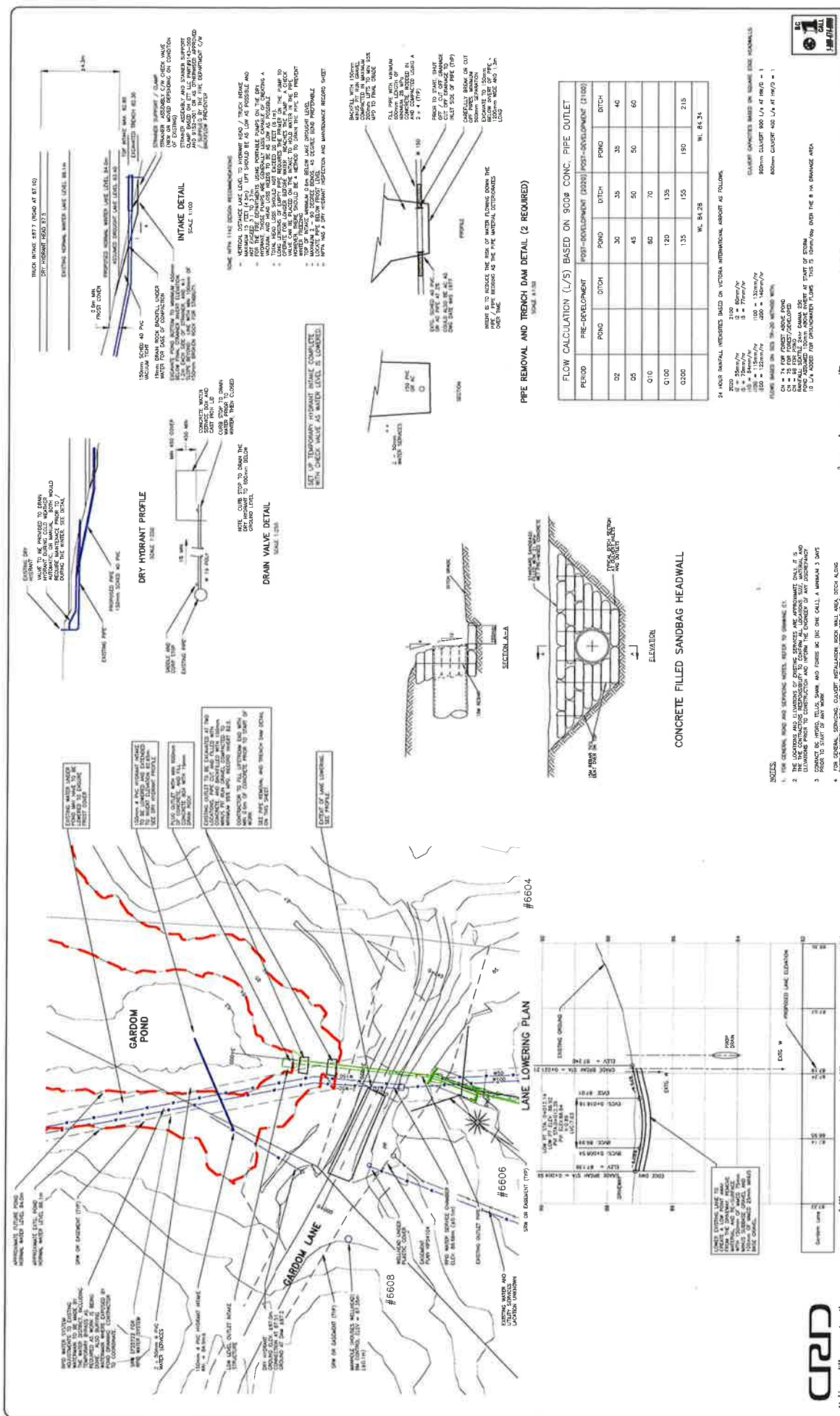
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2	DESIGN FOR CONSTRUCTION	FEB 14/14	JEA	JEA	JEA	AS SHOWN	
3	REVISION DESCRIPTION						

LEGEND

SYMBOL	DESCRIPTION
[Symbol]	EXIST. ROAD
[Symbol]	EXIST. SIDEWALK
[Symbol]	EXIST. CURB
[Symbol]	EXIST. UTILITY
[Symbol]	EXIST. TREE
[Symbol]	EXIST. FENCE
[Symbol]	EXIST. SIGN
[Symbol]	EXIST. LIGHT
[Symbol]	EXIST. STRUCTURE
[Symbol]	EXIST. WALL
[Symbol]	EXIST. DRAINAGE
[Symbol]	EXIST. EROSION CONTROL
[Symbol]	EXIST. LANDSCAPE
[Symbol]	EXIST. UTILITIES
[Symbol]	EXIST. OBSTACLES
[Symbol]	EXIST. PROPOSED
[Symbol]	EXIST. PROPOSED SIDEWALK
[Symbol]	EXIST. PROPOSED CURB
[Symbol]	EXIST. PROPOSED UTILITY
[Symbol]	EXIST. PROPOSED TREE
[Symbol]	EXIST. PROPOSED FENCE
[Symbol]	EXIST. PROPOSED SIGN
[Symbol]	EXIST. PROPOSED LIGHT
[Symbol]	EXIST. PROPOSED STRUCTURE
[Symbol]	EXIST. PROPOSED WALL
[Symbol]	EXIST. PROPOSED DRAINAGE
[Symbol]	EXIST. PROPOSED EROSION CONTROL
[Symbol]	EXIST. PROPOSED LANDSCAPE

GENERAL NOTES:

- FOR EXISTING ROAD AND SIDEWALKS, REFER TO DRAWING 51.
- FOR EXISTING SIDEWALKS, REFER TO DRAWING 52.
- FOR EXISTING UTILITY, REFER TO DRAWING 53.
- FOR EXISTING STRUCTURE, REFER TO DRAWING 54.
- FOR EXISTING WALL, REFER TO DRAWING 55.
- FOR EXISTING DRAINAGE, REFER TO DRAWING 56.
- FOR EXISTING EROSION CONTROL, REFER TO DRAWING 57.
- FOR EXISTING LANDSCAPE, REFER TO DRAWING 58.
- FOR EXISTING OBSTACLES, REFER TO DRAWING 59.
- FOR EXISTING PROPOSED, REFER TO DRAWING 60.
- FOR EXISTING PROPOSED SIDEWALK, REFER TO DRAWING 61.
- FOR EXISTING PROPOSED CURB, REFER TO DRAWING 62.
- FOR EXISTING PROPOSED UTILITY, REFER TO DRAWING 63.
- FOR EXISTING PROPOSED TREE, REFER TO DRAWING 64.
- FOR EXISTING PROPOSED FENCE, REFER TO DRAWING 65.
- FOR EXISTING PROPOSED SIGN, REFER TO DRAWING 66.
- FOR EXISTING PROPOSED LIGHT, REFER TO DRAWING 67.
- FOR EXISTING PROPOSED STRUCTURE, REFER TO DRAWING 68.
- FOR EXISTING PROPOSED WALL, REFER TO DRAWING 69.
- FOR EXISTING PROPOSED DRAINAGE, REFER TO DRAWING 70.
- FOR EXISTING PROPOSED EROSION CONTROL, REFER TO DRAWING 71.
- FOR EXISTING PROPOSED LANDSCAPE, REFER TO DRAWING 72.



LEGEND

SYMBOL	DESCRIPTION
[Symbol]	CIVILIAN
[Symbol]	ELECTRIC
[Symbol]	GAS
[Symbol]	WATER
[Symbol]	SEWER
[Symbol]	TELEPHONE
[Symbol]	UNIDENTIFIED
[Symbol]	EXISTING
[Symbol]	PROPOSED

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PROJECT: CAPITAL REGIONAL DISTRICT
PARKS AND ENVIRONMENTAL SERVICES
GARDOM POND, NORTH PENDER ISLAND
DAM NATURALIZATION
DAM AREA DETAILS
CONTRACT # 10-1858C
27-M156-C3
ISSUE 1

PIPE REMOVAL AND TRENCH DAM DETAIL (2 REQUIRED)

PERIOD	PIPE-DEVELOPMENT (L/S)	POST-DEVELOPMENT (2000)	POST-DEVELOPMENT (2100)	PIPE OUTLET
02	30	35	35	40
05	45	50	50	60
010	60	70	70	80
0100	120	135	135	150
01000	135	155	155	215

24 HOUR RAINFALL INTENSITIES BASED ON VICTORIA HISTORICAL RECORD AS FOLLOWS:
 15 = 25mm/hr
 15 = 38mm/hr
 15 = 76mm/hr
 15 = 152mm/hr
 150 = 1520mm/hr
 1000 = 15200mm/hr
 10000 = 152000mm/hr

FLOW BASED ON 1% SLOPE WITH
 CN = 74 FOR FOREST ABOVE POND
 CN = 50 FOR POND
 CN = 50 FOR POND
 CN = 50 FOR POND

NOTES:
 1. THE GENERAL ROAD AND SERVICES UTILITIES BEHIND THE DAM ARE APPROXIMATE.
 2. THE LOCATIONS AND ELEVATIONS OF EXISTING SERVICES ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY.
 3. CONTRACTOR TO VERIFY THE SHOWN AND FORMS BE FOR ONE CALL. A MINIMUM 2 DAYS PRIOR TO START OF ANY WORK.
 4. EXISTING UTILITIES SHALL BE PROTECTED AND NOT REMOVED UNLESS OTHERWISE NOTED ON THIS SHEET.



CONCRETE FILLED SANDBAG HEADWALL

ELEVATION

DRY HYDRANT PROFILE

SCALE 1:200

PIPE REMOVAL AND TRENCH DAM DETAIL (2 REQUIRED)

SCALE 1:50

DRAIN VALVE DETAIL

SCALE 1:50

DRY HYDRANT PROFILE

SCALE 1:200

INTAKE DETAIL

SCALE 1:100

PIPE REMOVAL AND TRENCH DAM DETAIL (2 REQUIRED)

SCALE 1:50

LANE LOWERING PROFILE

SCALE 1:200

LANE LOWERING PROFILE

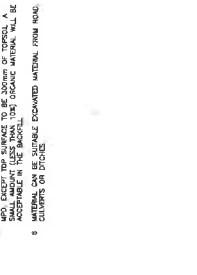
SCALE 1:200



EXISTING CHANNEL, FILING SCALE 1:200

EXISTING CHANNEL FILING NOTES

1. LOCUS AND PROFILE DURING WATER SERVICES ROAD TO EXIST CHANNEL LOCATIONS
2. CLEAR DRAINAGE TRUSS AND ROCK STAMPS AND ORANGE MATERIAL IN FILL AREA
3. BANK TOP OF FILL LENGTH AS NOTED TO BE 10m LONG
4. ROCK SIZES DIMENSIONS 3-1.5m (approx. 4")
5. ALL EXISTING DIMENSIONS TO BE COORDINATED TO TOP OF BANK TO BE CONTINUED PROFESSIONAL ENVIRONMENTAL SERVICES ETC
6. MEASUREMENTS TO BE COORDINATED TO TOP OF BANK TO BE CONTINUED PROFESSIONAL ENVIRONMENTAL SERVICES ETC
7. MATERIAL CAN BE SUITABLE DOWNED INTERNAL FROM ROAD COURSE OF STOPS



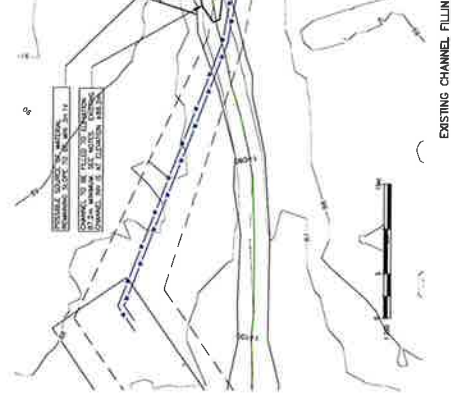
CRD / ENGINEERED TYPICAL SECTION SCALE 1:500

EXISTS: 1200mm DEPTH (SPILL OF STAFFS FORM ROAD) 1200mm DEPTH (SPILL OF STAFFS FORM ROAD) 1200mm DEPTH (SPILL OF STAFFS FORM ROAD)



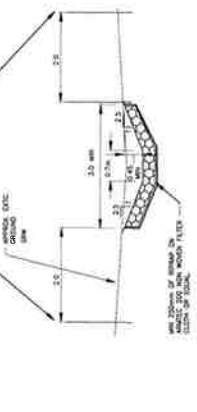
CRD / ENGINEERED TYPICAL SECTION SCALE 1:500

EXISTS: 1200mm DEPTH (SPILL OF STAFFS FORM ROAD) 1200mm DEPTH (SPILL OF STAFFS FORM ROAD) 1200mm DEPTH (SPILL OF STAFFS FORM ROAD)



EXISTING CHANNEL, FILING SCALE 1:200

EXISTING CHANNEL FILING NOTES



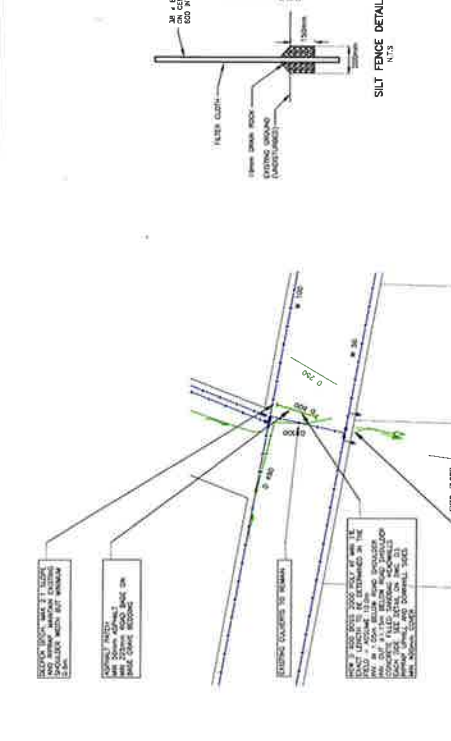
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EXISTING CHANNEL FILING NOTES

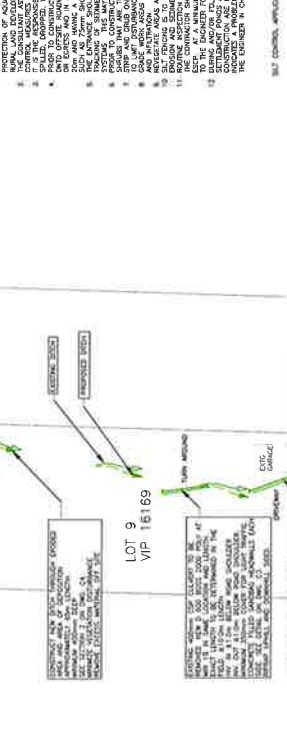


CRD / ENGINEERED TYPICAL SECTION SCALE 1:500

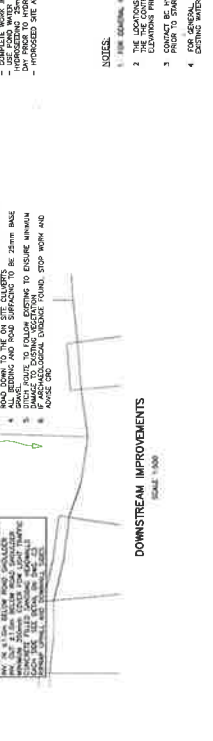
EXISTING CHANNEL FILING NOTES



LOT 9 V/P 16169

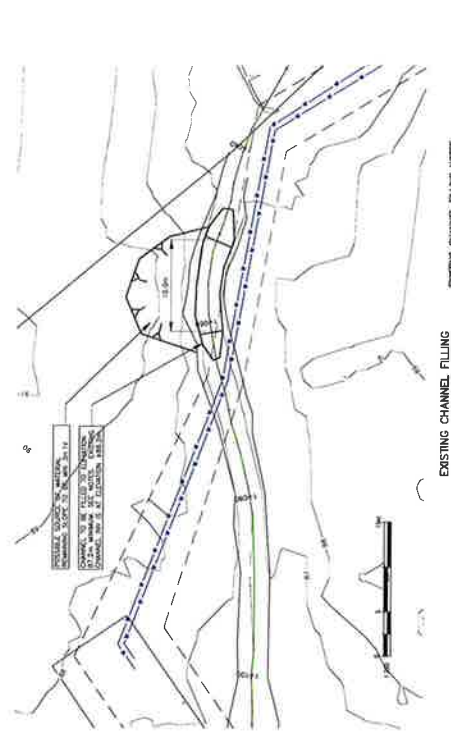


DOWNSTREAM IMPROVEMENTS SCALE 1:500

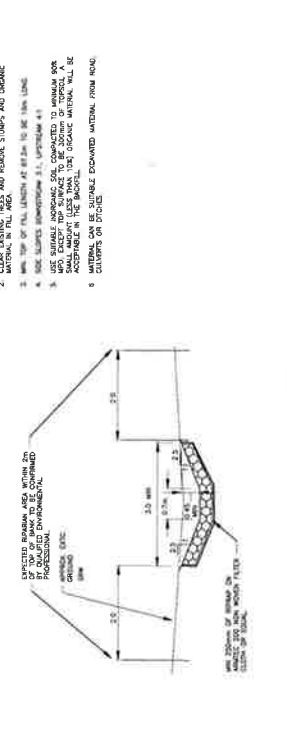


SILT FENCE DETAIL N:15

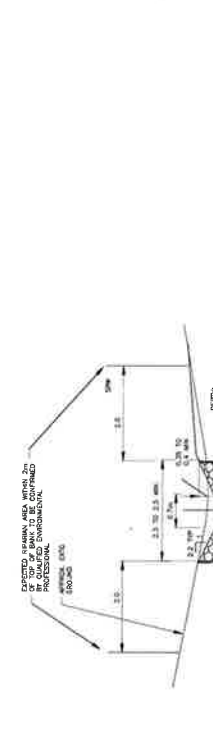
SILT FENCE DETAIL N:15



SILT FENCE DETAIL N:15



ROCK CHECK DAM SECTION N:15



ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM SECTION N:15

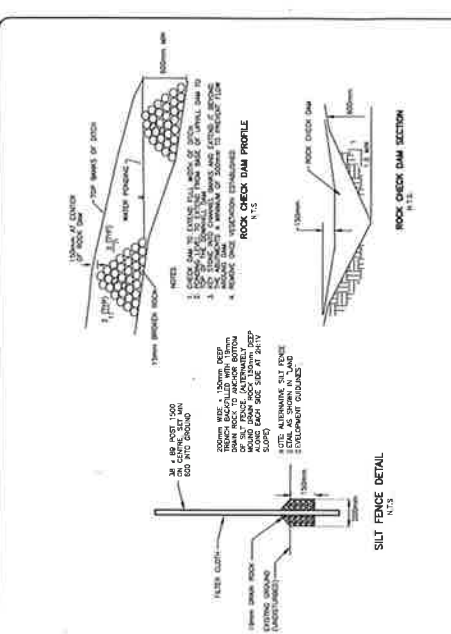
ROCK CHECK DAM SECTION N:15

ROCK CHECK DAM PROFILE N:15

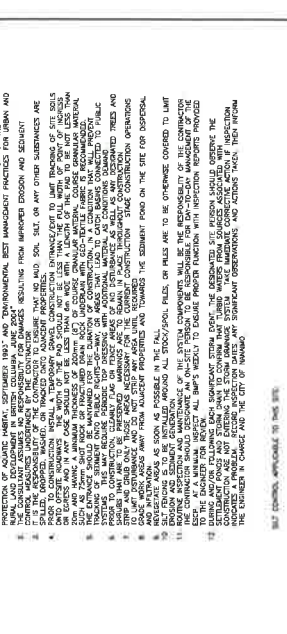
ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

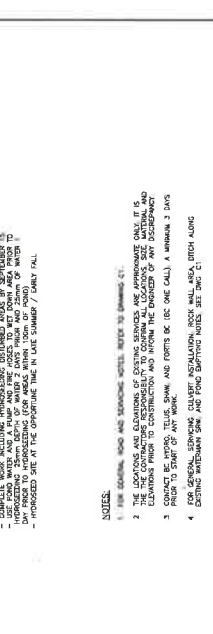
ROCK CHECK DAM PROFILE N:15



SILT FENCE DETAIL N:15



ROCK CHECK DAM SECTION N:15



ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM SECTION N:15

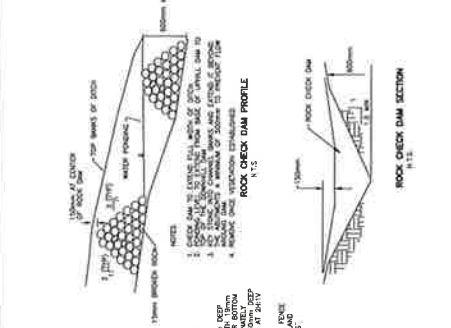
ROCK CHECK DAM SECTION N:15

ROCK CHECK DAM PROFILE N:15

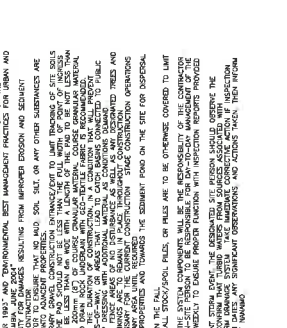
ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15



SILT FENCE DETAIL N:15



ROCK CHECK DAM SECTION N:15



ROCK CHECK DAM PROFILE N:15

ROCK CHECK DAM PROFILE N:15

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ROCK CHECK DAM PROFILE N:15

CLIENT				CAPITAL REGIONAL DISTRICT PARKS AND ENVIRONMENTAL SERVICES			
PROJECT				GARDON POND, NORTH PENDER ISLAND DAM NATURALIZATION DOWNSTREAM CONTRACT # 16-1884C			
DRAWING NO.				27-M156-C4			
ISSUE 1				16-003 - 1 OF 4			
APPROVED		SCALE		DATE		BY	
[Signature]		1:500 HORIZ		[Date]		[Name]	
J.E. ANDERSON & ASSOCIATES SURVEYORS - ENGINEERS				1A - 5411 SHEPSTON ROAD, NANAIMO, B.C. V9T 2H1 TEL: 250-753-1111 E-MAIL: jعاندرسون@anderjason.com			
LEGEND	SYMBOL	DESCRIPTION	SCALE	DATE	BY	CHECKED	APP'D
LAMP STANDARDS	[Symbol]	[Description]	[Scale]	[Date]	[By]	[Checked]	[App'd]
PROPOSED	[Symbol]	[Description]	[Scale]	[Date]	[By]	[Checked]	[App'd]
EXISTING	[Symbol]	[Description]	[Scale]	[Date]	[By]	[Checked]	[App'd]
PROPOSED	[Symbol]	[Description]	[Scale]	[Date]	[By]	[Checked]	[App'd]
EXISTING	[Symbol]	[Description]	[Scale]	[Date]	[By]	[Checked]	[App'd]

LEGEND

SYMBOL DESCRIPTION SCALE DATE BY CHECKED APP'D

LAMP STANDARDS [Symbol] [Description] [Scale] [Date] [By] [Checked] [App'd]

PROPOSED [Symbol] [Description] [Scale] [Date] [By] [Checked] [App'd]

EXISTING [Symbol] [Description] [Scale] [Date] [By] [Checked] [App'd]

PROPOSED [Symbol] [Description] [Scale] [Date] [By] [Checked] [App'd]

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CRD / ENGINEERED TYPICAL SECTION SCALE 1:500

VP 5351 V/P 3842
RAG V/P 23275

ELEVATIONS ARE GEODETIC AND TO INADS