

SUPER SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS % | SLOPE LENGTH (m) (MAXIMUM) | SPACING OF RETURNS (r 10-20% 20-33% 40 30 33-50% >50% 15 20

STABILISED CONSTRUCTION ENTRANCE SPECIFICATIONS:

APPLICATION

USE A STABILISED CONSTRUCTION ENTRANCE AT ALL POINTS OF CONSTRUCTION SITE INGRESS AND EGRESS WITH A CONSTRUCTION PLAN LIMITING TRAFFIC TO THESE ENTRANCES ONLY. THEY ARE PARTICULARLY USEFUL ON SMALL CONSTRUCTION SITES BUT CAN BE UTILISED FOR ALL

DESIGN:

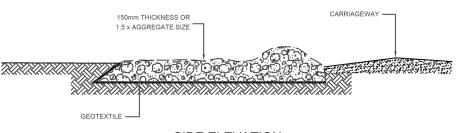
- 1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER UNSUITABLE MATERIAL AND PROPERLY GRADE IT
- 2. LAY WOVEN GEOTEXTILE; PIN DOWN EDGES AND OVERLAP JOINTS.
- 3. PROVIDE DRAINAGE TO CARRY RUNOFF FROM THE STABILISED CONSTRUCTION ENTRANCE TO A SEDIMENT CONTROL MEASURE
- 4. PLACE AGGREGATE TO THE SPECIFICATIONS BELOW AND SMOOTH IT

STABILISED CONSTRUCTION ENTRANCE AGGREGATE SPECIFICATIONS

AGGREGATE SIZE	5-150mm WASHED AGGREGATE
THICKNESS	150mm MINIMUM OR 1.5 X AGGREGATE SIZE
LENGTH	10m MINIMUM LENGTH RECOMMENDED
WIDTH	4m MINIMUM

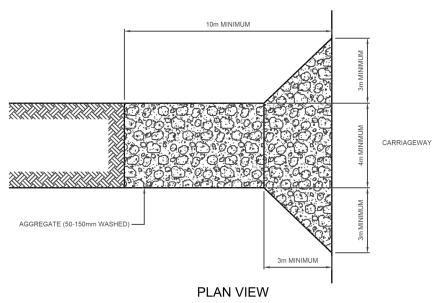
MAINTENANCE

- 1 MAINTAIN THE STABILISED CONSTRUCTION ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT FROM THE STABILISED CONSTRUCTION ENTRANCE AND CLEAN OUT AS NECESSARY
- 2. WHEN WHEEL WASHING IS ALSO REQUIRED, ENSURE THIS IS DONE ON AN AREA STABILISED WITH AGGREGATE WHICH DRAINS TO AN APPROVED SEDIMENT RETENTION FACILITY.



SUPER SILT FENCE CONSTRUCTION

SIDE ELEVATION



STABILISED CONSTRUCTION ENTRANCE

THE BEARS HOME PROJECT MANAGEMENT LTD MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD **MURIWAI VALLEY**

PROPOSED EARTHWORKS **EROSION AND SEDIMENT CONTROL DETAILS DRAWING 1**

NOTES:

PROPOSED BULK EARTHWORKS DRAWINGS ARE AN

1946 (MSL). THE CONTOUR INTERVAL IS: 1.0m

AMENDMENT TO APPROVED CONSENT BUN60344551.

ALL LEVELS ARE IN TERMS OF AUCKLAND VERTICAL DATUM

ALL EARTHWORKS SHALL COMPLY WITH COUNCIL'S EROSION

ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE

OPERATIONAL PRIOR TO ANY OTHER WORKS COMMENCING ON SITE. THE CONTRACTOR SHALL ARRANGE FOR AND

ONSITE WITH THE ENGINEER AND COUNCIL REPRESENTATIVE.

AVAILABLE ON SITE DURING WORK HOURS. ALL PERSONNEL

ALL "CLEAN WATER" RUNOFF FROM STABILISED SURFACES,

INCLUDING CATCHMENT AREAS ABOVE THE SITE, SHALL BE

ALL "DIRTY WATER" DIVERSION BUNDS CONSTRUCTED ON

THE MAIN SILT CONTROL MEASURES FOR THIS SITE ARE:

a. DIVERSION OF CLEAN WATER FROM UPSTREAM

METHODS AS DIRECTED BY THE ENGINEER;

d. NEW CESSPITS MUST BE PROTECTED TO PREVENT

BARRIERS OR SILT FENCES AS SHOWN;

STEEP AREAS SHALL INCLUDE DROP-OUT PITS. DROP-OUT PIT

SPACING TO BE IN ACCORDANCE WITH SECTION E2.2 IN THE

CATCHMENTS AROUND THE EARTHWORKS AREA BY MEANS OF DIVERSION BUNDS AND /OR OTHER APPROVED

b. REMOVAL OF SEDIMENT FROM SILT- LADEN WATERS USING SILT PONDS, DECANTING EARTH BUNDS, HAY BALE

c. STABILISATION OF THE SITE AGAINST EROSION AS SOON AS PRACTICABLE AND IN A PROGRESSIVE MANNER AS

SILT-LADEN RUNOFF ENTERING THE NEW STORMWATER

e. MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES AS

FURTHER SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER AS THE PROJECT ADVANCES. THESE WILL BE INSTALLED AS AND WHERE DIRECTED BY THE ENGINEER THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE SITE HAS EFFECTIVE MEASURES OPERATING AT ALL TIMES.

ALL SILT PONDS ARE TO BE CHEMICALLY FLOCCULATED WITH

POLY ALUMINUM CHLORIDE (PAC) OR AN APPROVED

ALTERNATIVE. SET-UP OF PAC DOSING SYSTEMS IS BE UNDERTAKEN BY A SUITABILITY QUALIFIED SPECIALIST

POND LOCATIONS CAN BE ALTERED ON SITE AFTER

CONSULTATION WITH THE ENGINEER.

EARTHWORKS ARE FINISHED OVER VARIOUS AREAS OF THE

DIVERTED AWAY FROM THE EARTHWORK AREAS VIA A

STABILIZED SYSTEM TO PREVENT EROSION.

AUCKLAND REGION GD 2016/005.

INVOLVED IN EARTHWORK ACTIVITIES ON THE SITE (INCLUSIVE OF SUB-CONTRACTORS) SHALL BE FAMILIAR WITH THE PLANS

ATTEND, A PRELIMINARY SEDIMENT CONTROL MEETING.

A COPY OF THE SEDIMENT CONTROL PLAN SHALL BE

REQUIREMENTS.

REQUIRED.

AND SEDIMENT CONTROL GUIDE FOR LAND DISTURBING ACTIVITIES IN THE AUCKLAND REGION GD 2016/005.

PURPOSE OF ISSUE: **FOR CONSENT** SCAL **AS SHOWN** DO NOT SCALE DRAWING NO:

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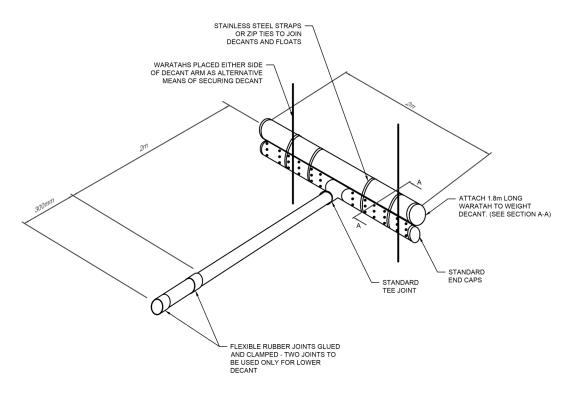
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CIM JSD 18/11/21 SECOND ISSUE CIM

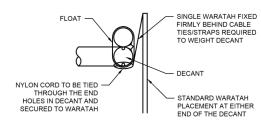
ISSUED FOR CONSENT CIM JSD 26/11/21 MCKENZIE & CO.

NOTES:

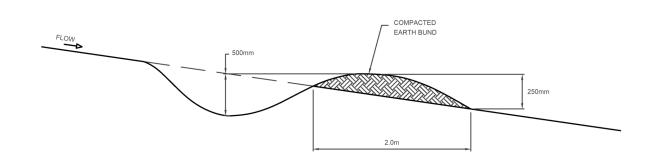
TO BE READ IN CONJUNCTION WITH DRAWING 295



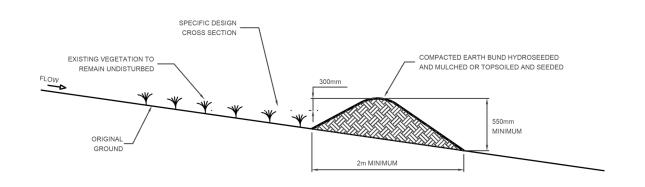
DECANT WITH UPSTAND FOR DECANTING EARTH BUND



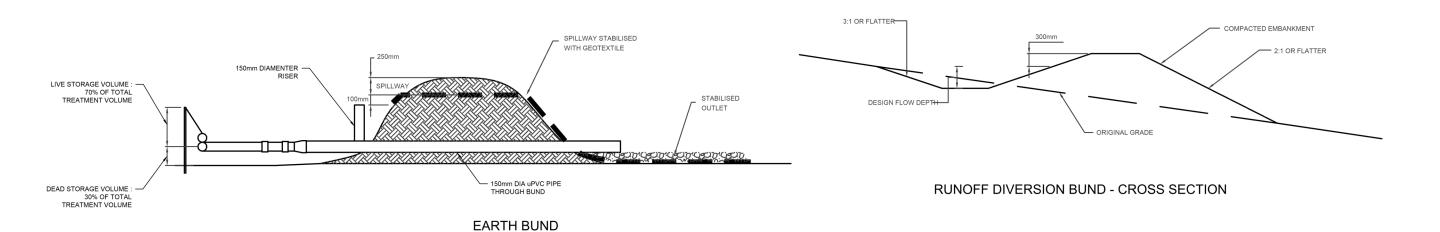
SECTION A-A



CONTOUR DRAIN



CLEANWATER RUNOFF DIVERSION BUND - CROSS SECTION



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 MO
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 26/11/21

 B
 SECOND ISSUE
 MO
 CIM
 JSD
 18/11/21

 A
 FIRST ISSUE
 MO
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 JSD
 24/08/21



MCKENZIE & CO.

THE BEARS HOME PROJECT MANAGEMENT LTD

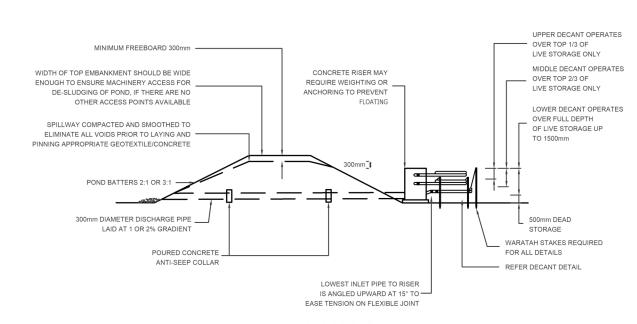
MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD MURIWAI VALLEY PROPOSED EARTHWORKS
EROSION AND SEDIMENT
CONTROL DETAILS
DRAWING 2

PURPOSE OF ISSUE:
FOR CONSENT

SCALE:
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DRAWING NO:
REV:
1976–1–296
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NOTES:

TO BE READ IN CONJUNCTION WITH DRAWING 295.



CROSS SECTION

SEDIMENT RETENTION POND SPECIFICATIONS **ADDITIONAL CREST CATCHMENT AREA** BASE VOLUME (m³) **DESCRIPTION** STORAGE (%) (ha) Length (m) Width (m) Length (m) Width (m) POND 0001 5.00 50.0 15.3 20.1 1808 54.8 POND 0003 3.60 20 42.1 12.7 46.9 17.5 1304 20 45.0 13.7 49.8 18.5 1480 POND 0004 4.09 POND 0006 2.83 20 37.1 41.9 15.8 1027 15.3 1794 POND 0014 4.96 20 49.8 54.6 20.1 POND 0015 4.18 20 45.5 13.8 50.3 18.6 1513 POND 0016 0.85 34.0 10.0 38.8 14.8 872 1.91 20 34.0 38.8 POND 0017 10.0 148 872 POND 0018 1.96 20 34.0 10.0 38.8 14.8 872 1275 POND 0301 3.52 41.6 12.5 46.4 17.3 POND 0601 4.32 20 46.3 14.1 51.1 18.9 1563 POND 0602 3.43 20 41.0 12.3 45.8 17.1 1243 POND 0703 34.0 10.0 38.8 1.58 20 148 872 POND 0805 3.10 20 38.9 11.6 43.7 16.4 1124 POND 0902 1.18 20 34.0 10.0 38.8 14.8 872 **POND 1002** 4.56 20 47.6 14.5 52.4 19.3 1650 POND 1201 4.31 46.2 14.1 51.0 18.9 1560 20 37.4 42.2 15.9 **POND 1302** 2.88 11.1 1045 POND 1402 20 41.5 12.5 46.3 17.3 1268 POND 1404 34.0 10.0 38.8 14.8 872 2.00 20 POND 1406 3.83 20 43.5 13.2 48.3 18.0 1387 2.50 10.0 38.8 POND 1501 20 34.0 14.8 872 POND 1701 4.60 20 47.8 14.6 52.6 19.4 1664 872 POND 1801



MANHOLE TO ACT AS PRIMARY SPILLWAY

EMERGENCY SPILLWAY IS TO BE WIDE, SHALLOW AND LEVEL

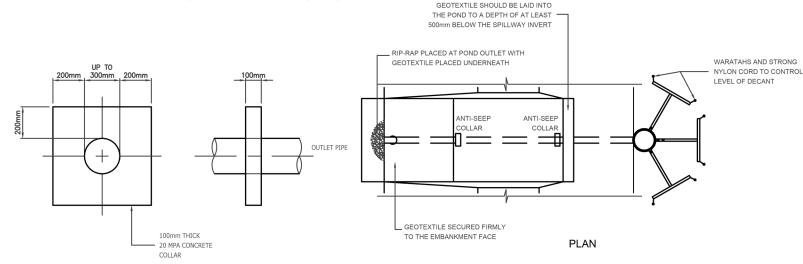
WHERE POSSIBLE OVER THE EXISTING GROUND RETAINING THE EXISTING GRASS COVER. BARE AREAS TO BE

PINNED GEOTEXTILE OVERLAID WITH

ANTI-SEEP COLLAR

LARGE ROCK TO BREAK UP FLOW

STABILISED WITH CONCRETE OR SIMILAR



EXTRA CREST WIDTH MAY BE REQUIRED TO PROVIDE

FOR MACHINERY ACCESS FOR CLEANING OUT

RUNOFF DIVERSION CHANNEL/BUND TO ENSURE ALL FLOW ENTERS AT THE INLET END

LEVEL SPREADER FULL WIDTH OF INLET END.

STABILISED FROM THE BEGINNING OF THE

OF THE SPILL WAY

ALL BARE SURFACES TO BE STABILISED WITH VEGETATION

3:1 INLET BATTER TO BE

INLET TO THE POND INVERT AND APPROPRIATE

SOFT MATTING GEOTEXTILE. LEVEL SPREADER

SEDIMENT RETENTION POND

NUMBER OF DECANTS FOR EACH POND SHALL BE AS FOLLOWS:

I) UP TO 1.5HA CATCHMENT - 1 DECANT II) 1.5-3.0HA CATCHMENT - 2 DECANTS

III) 3 TO 5 HA CATCHMENT - 3 DECANTS

RFV	DESCRIPTION	DRN BY	CHK BY	APP RV	DATE
Α	FIRST ISSUE	MO	CIM	JSD	24/08/
В	SECOND ISSUE	MO	CIM	JSD	18/11/2
С	ISSUED FOR CONSENT	MO	CIM	JSD	26/11/2



THE BEARS HOME PROJECT MANAGEMENT LTD MURIWAI DOWNS GOLF PROJECT 610 & 697 MURIWAI ROAD **MURIWAI VALLEY**

PROPOSED EARTHWORKS **EROSION AND SEDIMENT CONTROL DETAILS DRAWING 3**

PURPOSE OF ISSUE: **FOR CONSENT** SCALE **AS SHOWN** DO NOT SCALE DRAWING NO: С 1976-1-297