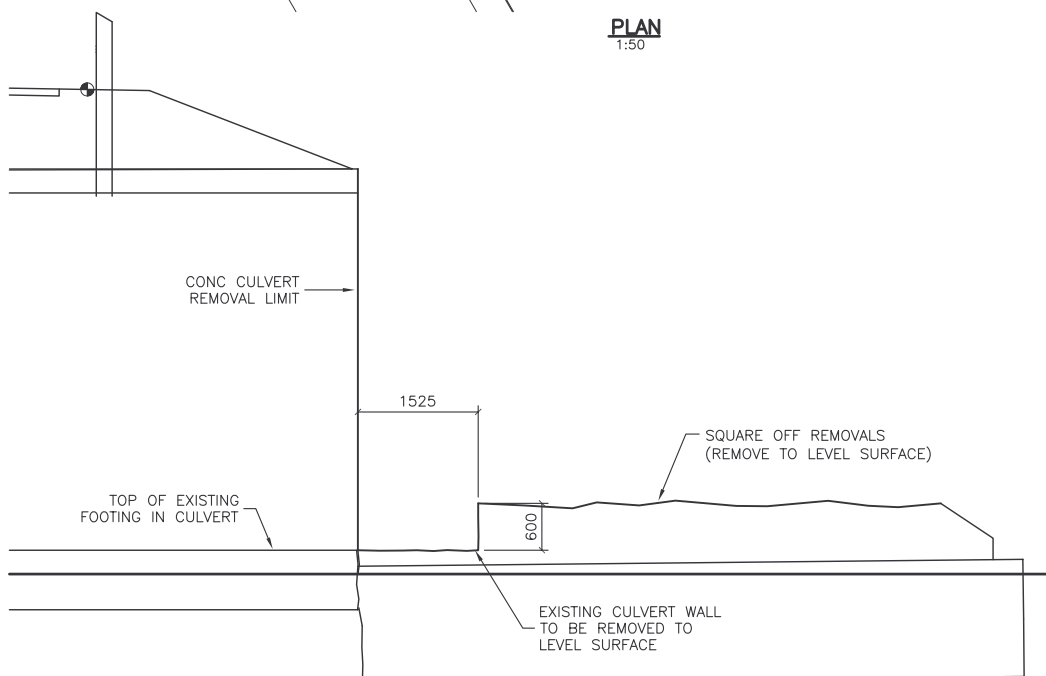
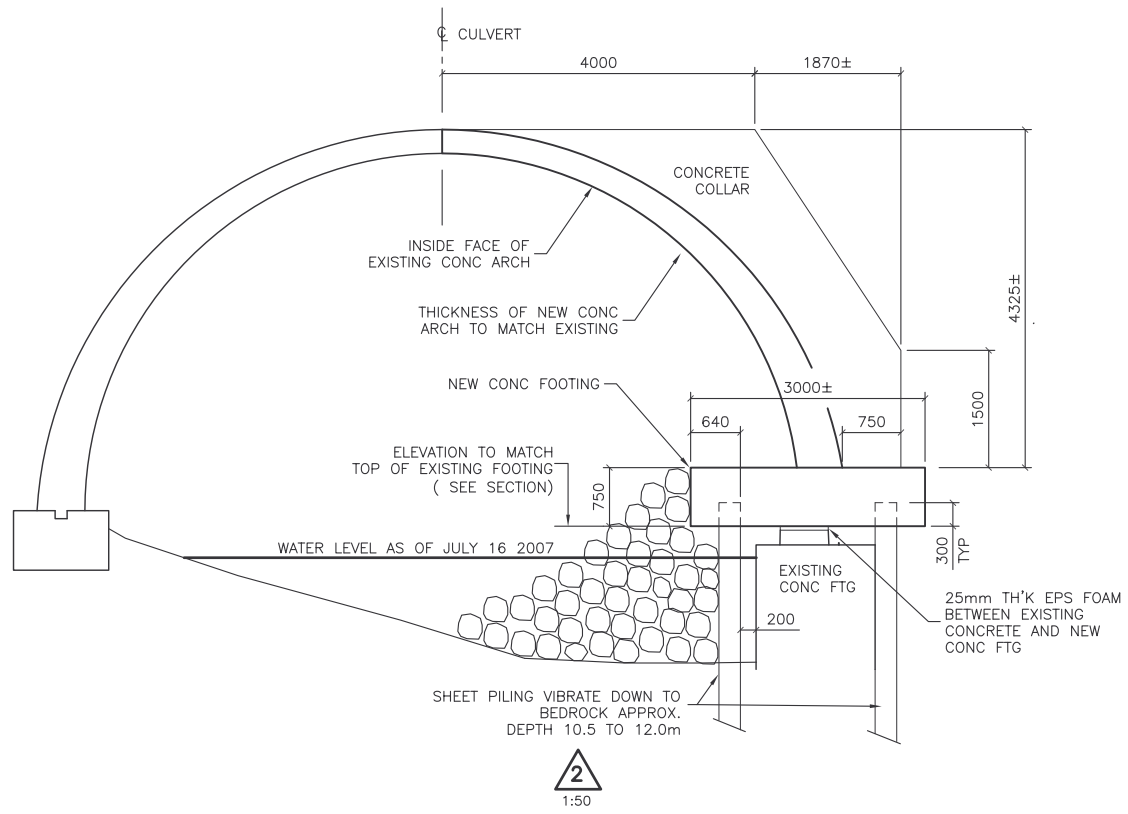


**PLAN**  
1:50



**1 REMOVALS SECTION**  
1:50



**2 REHABILITATED SECTION**  
1:50

**METRIC**  
DIMENSIONS ARE IN METRES  
AND/OR MILLIMETRES  
UNLESS OTHERWISE SHOWN

DIST HWY 17  
CONT No X  
WP No 6300-01-01



**MINK CREEK CULVERT**  
GENERAL ARRANGEMENT

SHEET



**NOTES**

- CLASS OF CONCRETE**  
ALL CONCRETE 30 MPa
- CLEAR COVER TO REINFORCING STEEL**  
- BOTTOM OF FOOTING: 100 ± 25  
- REMAINDER: 70 ± 20
- REINFORCING STEEL**  
1. REINFORCING STEEL SHALL BE GRADE 400 UNLESS OTHERWISE SPECIFIED.  
2. UNLESS SHOWN OTHERWISE, LAP LENGTHS NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE CLASS 'B'.  
3. BAR HOOKS, WHERE REQUIRED, SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS UNLESS INDICATED OTHERWISE.
- SHEET PILING**  
1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CSA STD W59-M AND SHALL BE CARRIED OUT BY A WELDER QUALIFIED UNDER CSA STANDARD W47.  
2. ALL SHEET PILING SHALL BE EZ95 SECTION AVAILABLE FROM CANADIAN METAL ROLLING MILLS. SECTION MODULUS 1310 cm<sup>3</sup>/m.  
3. SHEET PILING TO BE IN ACCORDANCE WITH ASTM A328

DRAWING NOT TO BE SCALED  
100 mm ON ORIGINAL DRAWING

REVISIONS	DESCRIPTION

DESIGN	PAS	CHK	LJB	CODE	CHBDC 06	LOAD	CL-625-QMT	DATE	JULY/2007
DRAWN	LMP/BWR	CHK	LJB/BWR	SITE	48C-23	STRUCT	SCHEME	DWG	1

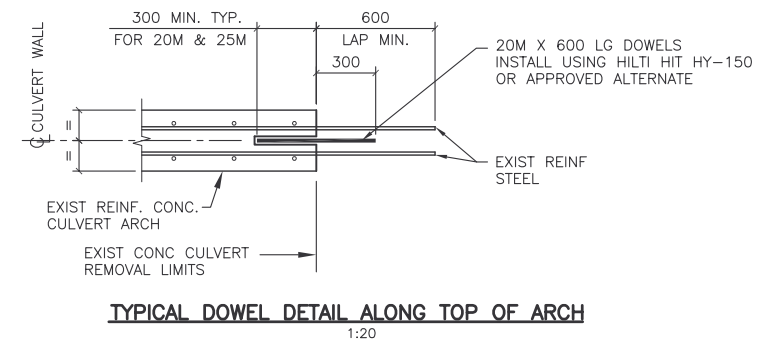
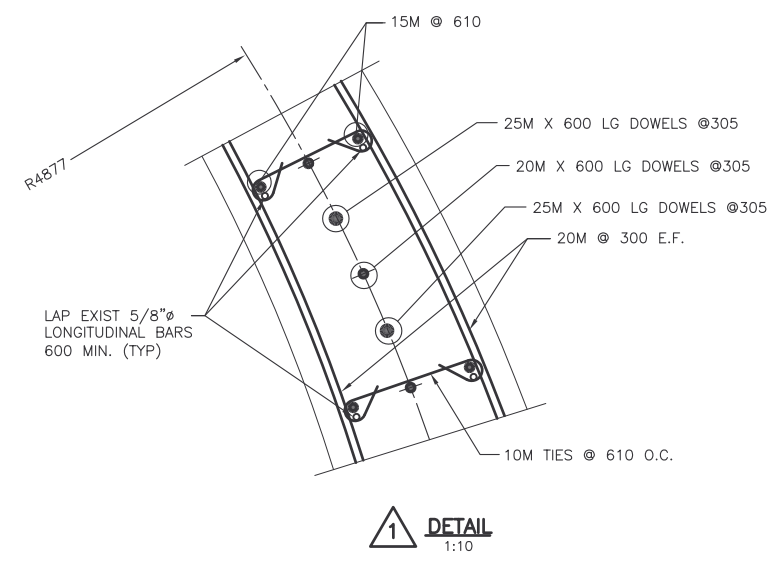
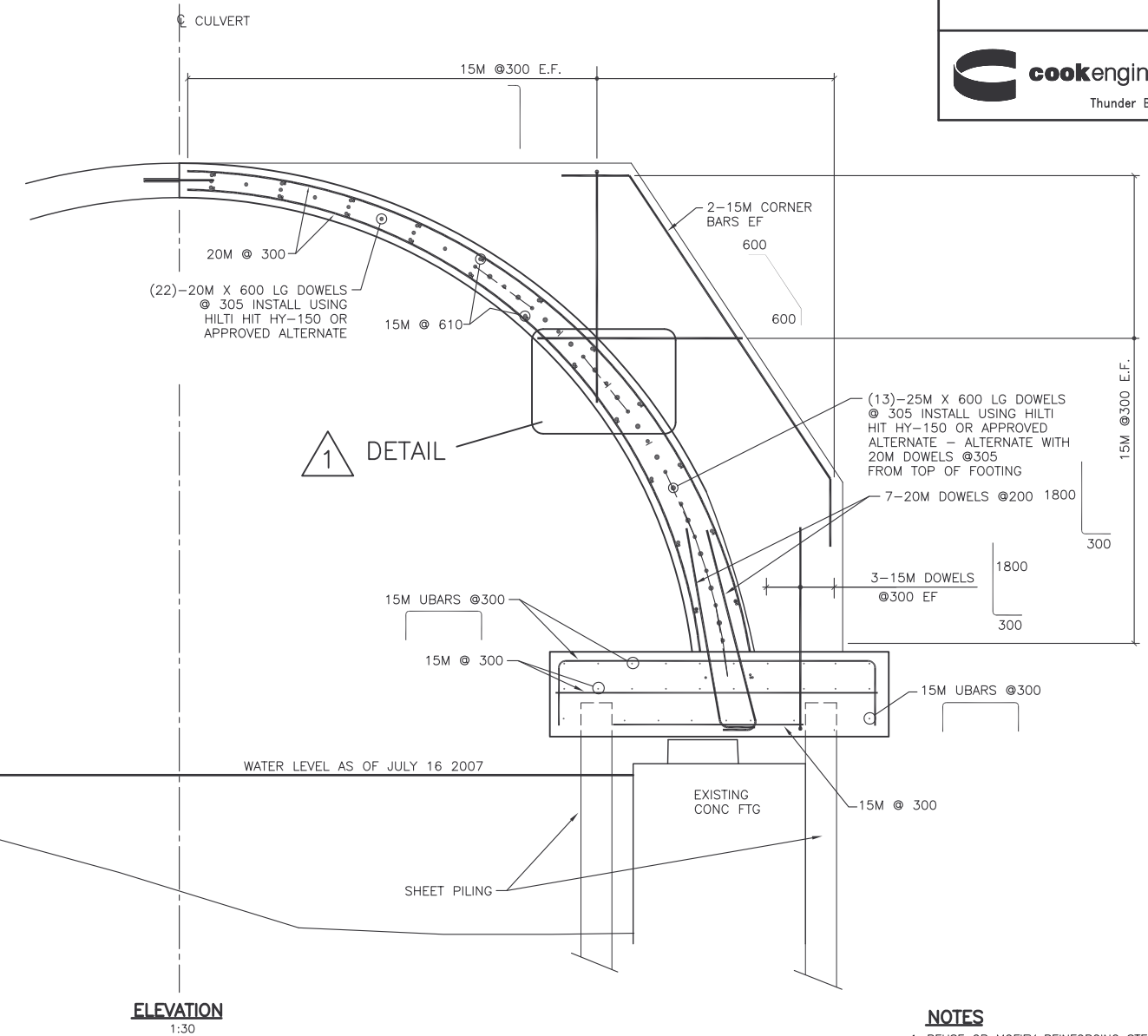
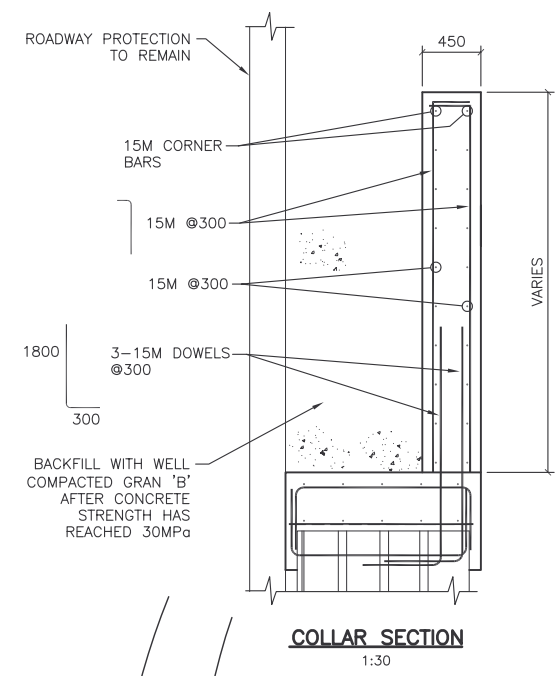
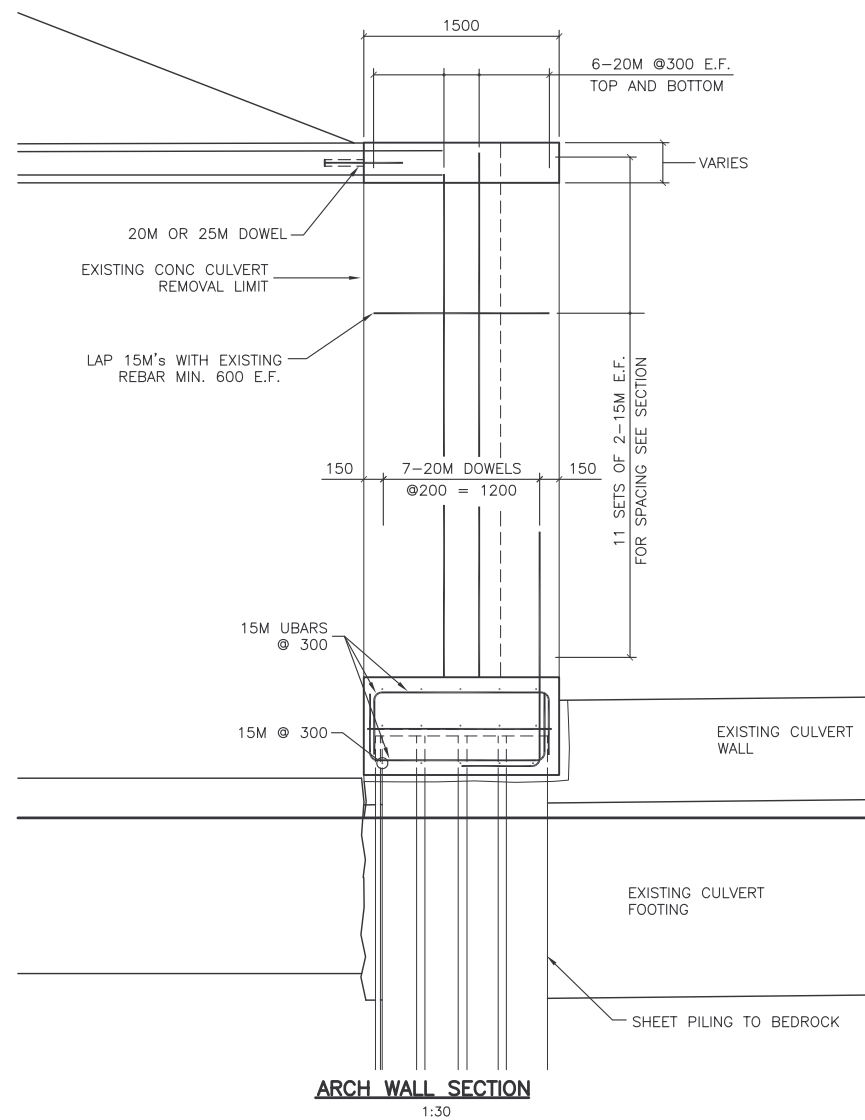
METRIC  
 DIMENSIONS ARE IN METRES  
 AND/OR MILLIMETRES  
 UNLESS OTHERWISE SHOWN

DIST HWY 17  
 CONT No X  
 WP No 6300-01-01



**MINK CREEK CULVERT**  
 CONCRETE REPAIRS DETAILS

SHEET

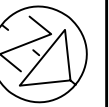


**NOTES**  
 1. REUSE OR MODIFY REINFORCING STEEL PROVIDED IN PREVIOUS CONTRACT IF POSSIBLE.

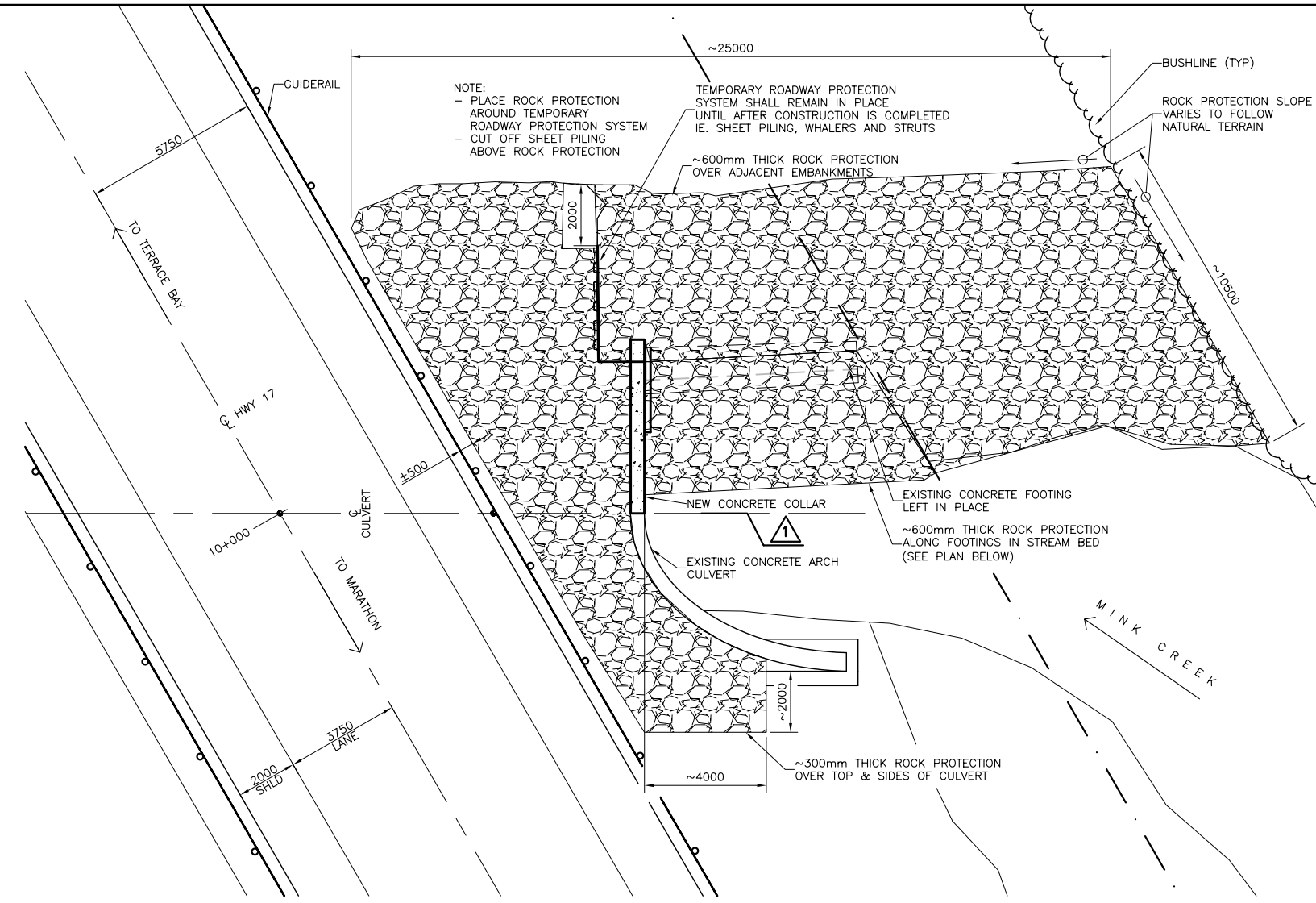
DRAWING NOT TO BE SCALED  
 100 mm ON ORIGINAL DRAWING

REVISIONS	DESCRIPTION

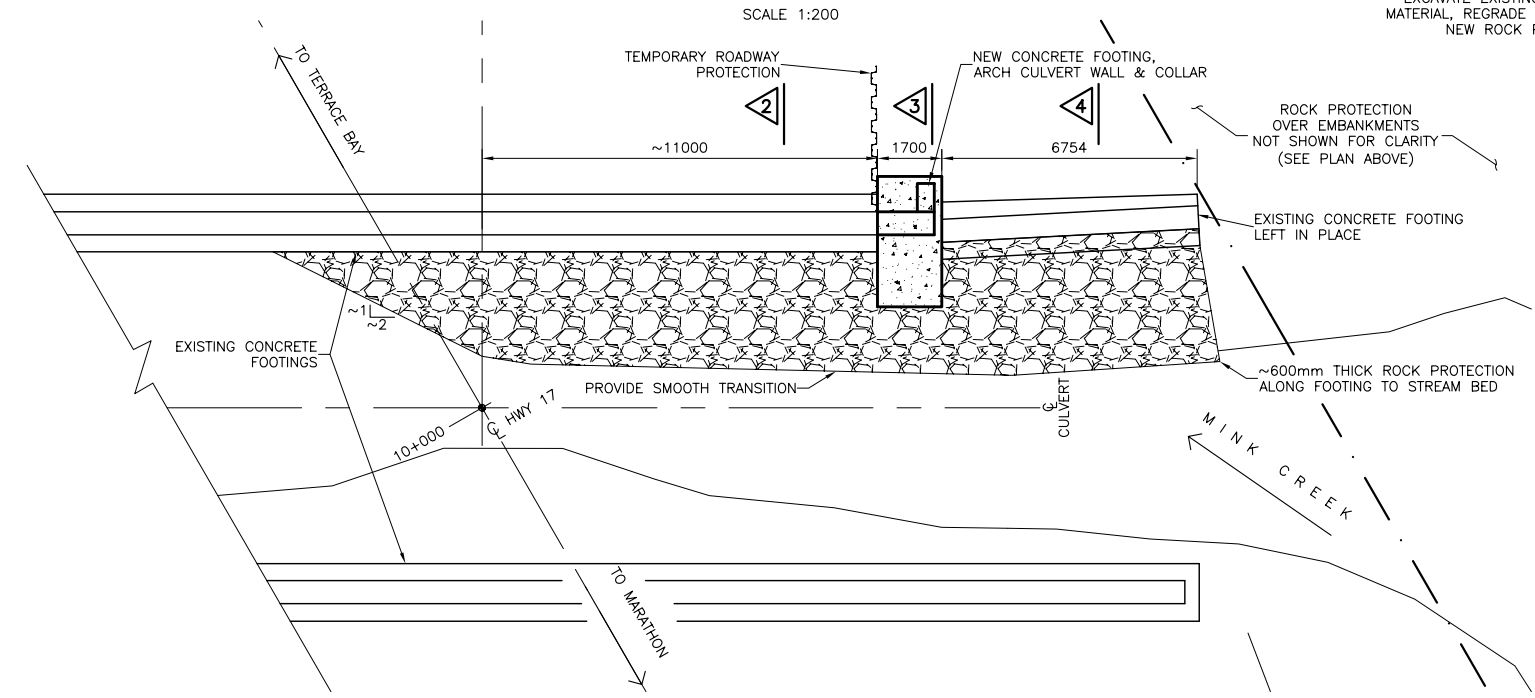
DESIGN PAS CHK LJB CODE CHBDC 06 LOAD CL-625-ONT DATE JULY/2007  
 DRAWN LNP/DMR CHK Lab/DMR SITE 48C-23 STRUCT SCHEME DWG 2



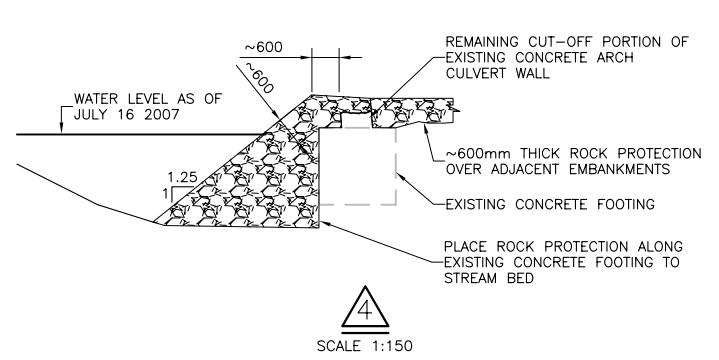
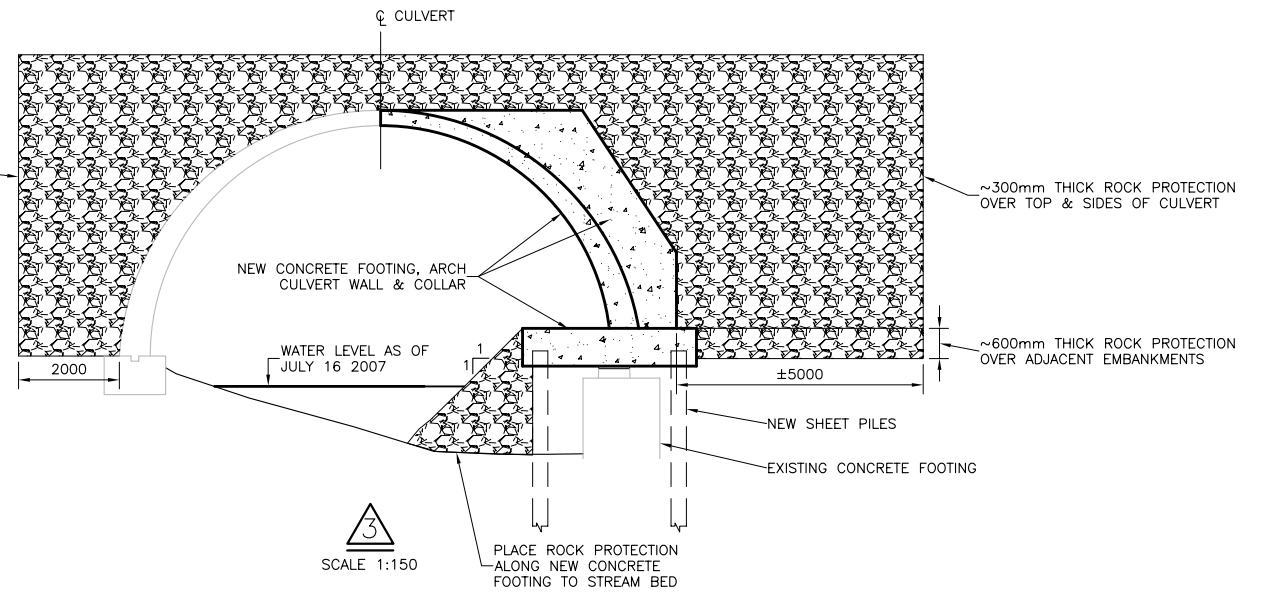
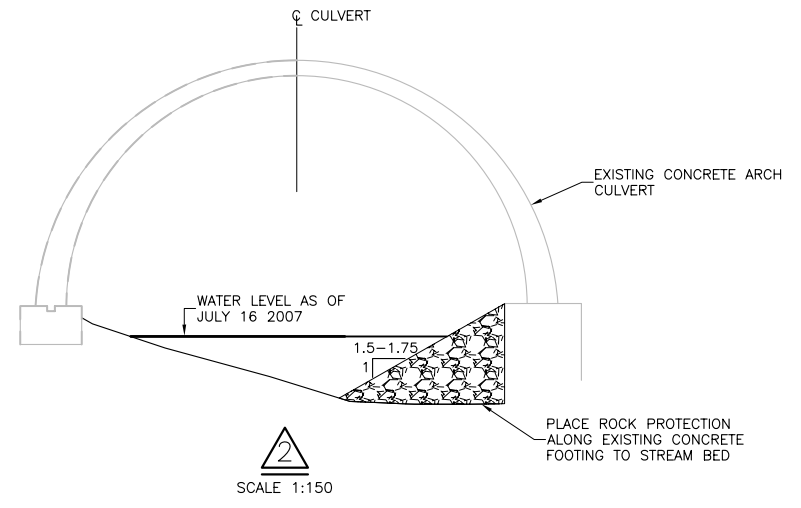
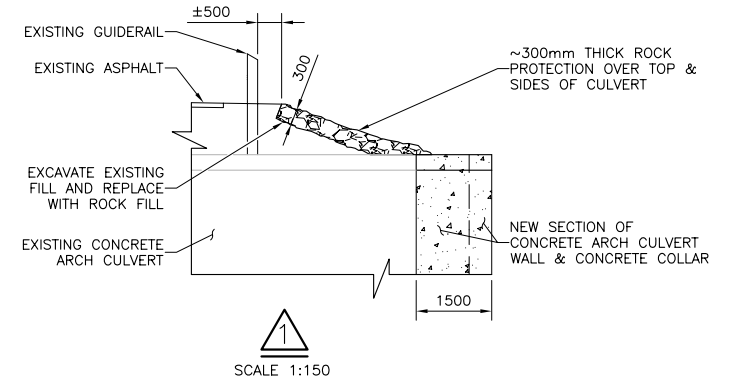
METRIC  
 DIMENSIONS ARE IN METRES  
 AND/OR MILLIMETRES  
 UNLESS OTHERWISE SHOWN



PLAN - ROCK PROTECTION OVER TOP AND ALONG SIDES OF CULVERT  
 SCALE 1:200



PLAN - ROCK PROTECTION INSIDE CULVERT ALONG FOOTING TO STREAM BED  
 SCALE 1:200



REVISIONS		DESCRIPTION			
NO.	DATE	BY	CHK	APP	DESCRIPTION

DESIGN X	CHK X	CODE	LOAD	DATE 08/07
DRAWN X	CHK X	SITE 48E-23	STRUCT	SCHEME DWG X

METRIC  
DIMENSIONS ARE IN METRES  
AND/OR MILLIMETRES  
UNLESS OTHERWISE SHOWN

DIST 61 HWY. 17  
CONT No  
WP No 6300-01-01



MINK CREEK CULVERT  
FOOTING PROTECTION  
DETAILS

SHEET

**GENERAL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SIGNAGE AS PER OTM BOOK 7.

**SCOPE OF WORK**

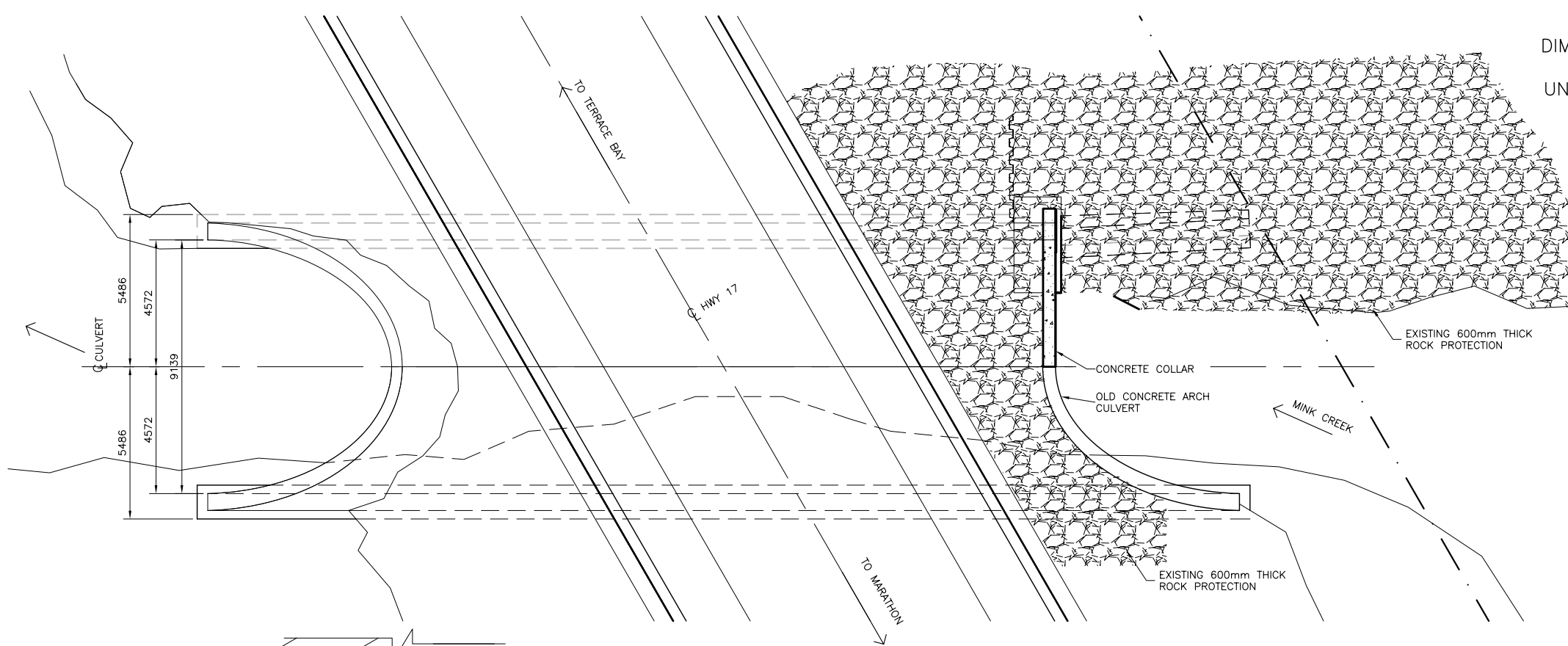
1. INSTALL TEMPORARY TURBIDITY/SILT CURTAIN DURING PLACEMENT OF BAGS.
2. PLACE CONCRETE MIX BAGS TIGHT ALONG THE FACE OF THE FOOTING. SEE DRAWINGS FOR EXACT LOCATIONS. ALL BAGS TO BE HAND PLACED. CONTRACTOR TO MAKE SURE OF A TIGHT FIT BETWEEN EACH BAG WHEN PLACING EACH BAG. CONTRACTOR TO STAGGER JOINTS OF BAGS BETWEEN TOP AND BOTTOM LAYERS.
3. ALL ROCK PROTECTION TO REMAIN 'AS IS'.

**SEQUENCE OF WORK**

1. INSTALL TEMPORARY TURBIDITY/SILT CURTAIN DURING PLACEMENT OF BAGS.
2. WIPE DUST OFF EXTERIOR OF CONCRETE MIX BAGS PRIOR TO PLACING INTO POLYWOVEN MATERIAL BAGS.
3. PLACE CONCRETE MIX BAGS ALONG WEST FOOTING ONLY.
4. CONTRACTOR TO HAVE A DRY/WET SHOP VACUUM PRESENT TO CLEAN OFF ANY SURFACE DEBRIS INSIDE THE TURBIDITY CURTAIN AREA.

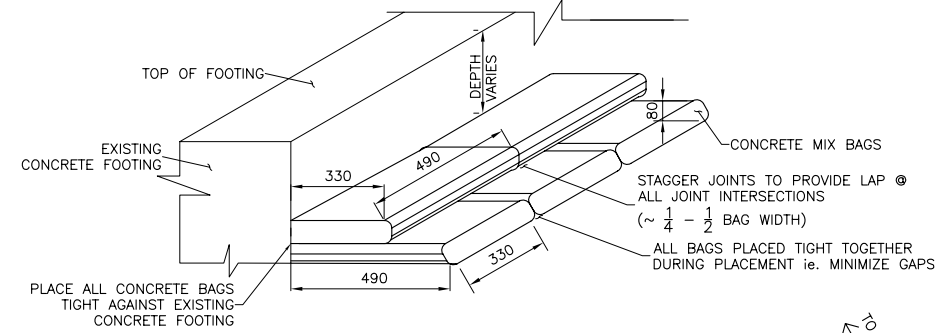
**MATERIALS**

1. DRY CONCRETE MIX BAGS SHALL BE PLACED IN A POLYWOVEN MATERIAL BAG.
2. CONCRETE IN MIX BAGS SHALL CONTAIN AN ANTI-WASH ADDITIVE.
3. CONCRETE IN MIX BAGS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 20MPA WITH A MAX AGGREGATE SIZE OF 10mm..
4. CONCRETE MIX BAGS SHALL BE KWIK MIX (PRODUCT NAME).

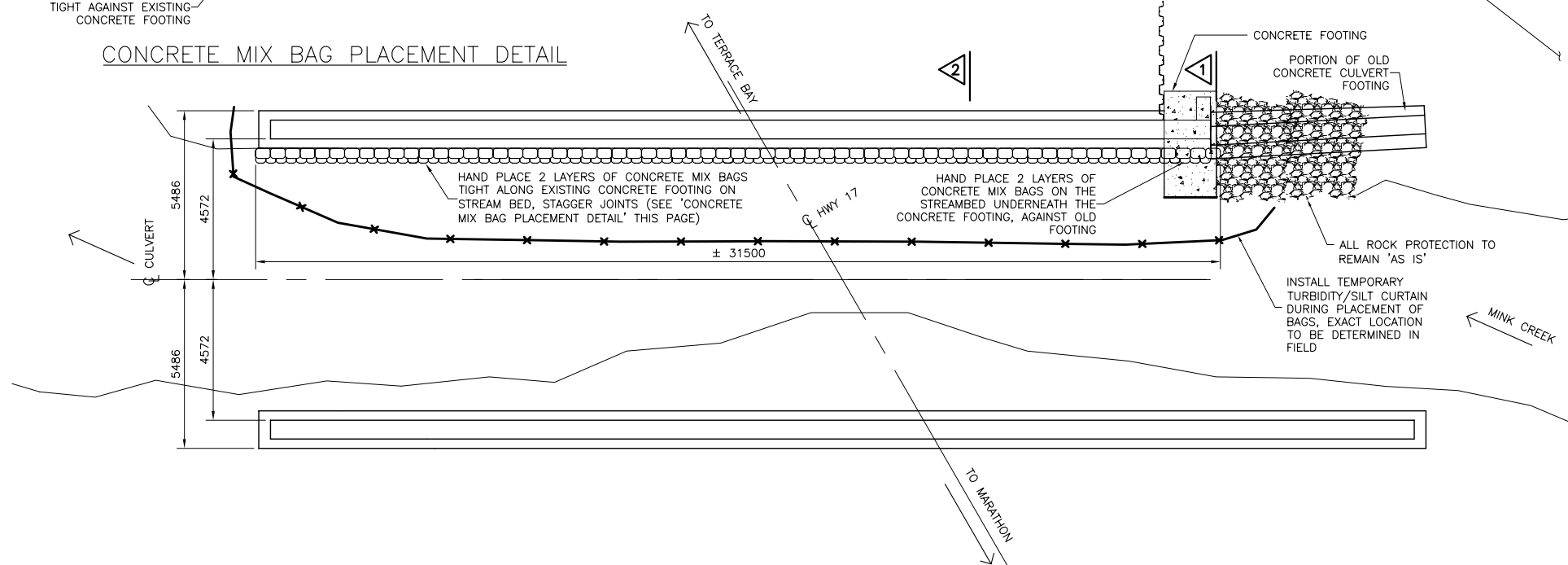


PLAN - EXISTING CONDITIONS

SCALE 1:200

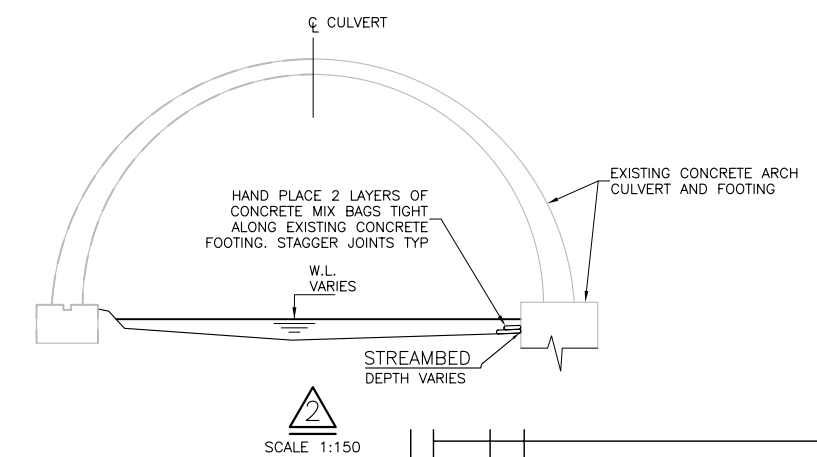
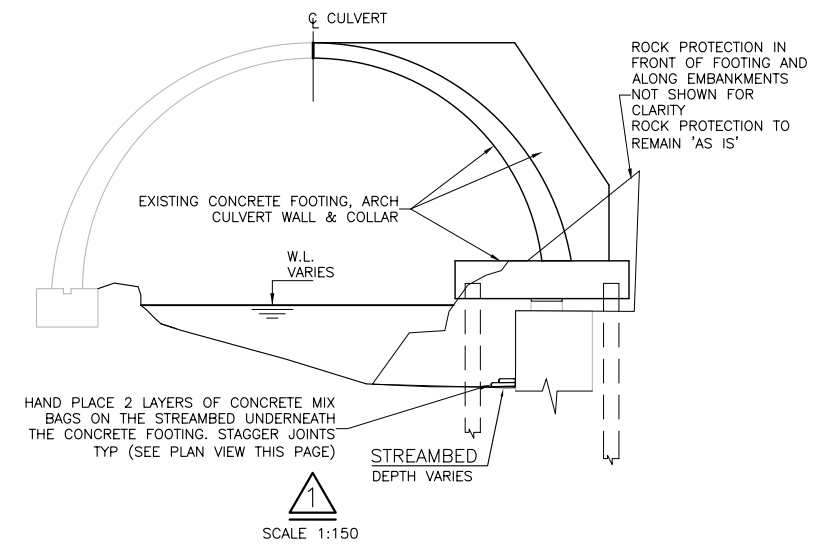


CONCRETE MIX BAG PLACEMENT DETAIL



PLAN - LOCATION OF CONCRETE MIX BAG PLACEMENT  
(TOP OF CULVERT, ROCK PROTECTION AND ROADWAY NOT SHOWN FOR CLARITY)

SCALE 1:200



REVISIONS		DESCRIPTION			
NO.	DATE	BY	CHK	APP	DESCRIPTION

DESIGN	CHK	CODE	LOAD	DATE	08/07
DRAWN	CHK	SITE	STRUCT	SCHEME	DWG