

Appendix E
Existing Gross Pollutant Trap (GPT)

NOTES

- Contractor shall make all the necessary applications and pay relevant fees to Sydney Water through a quick check agent for the sewer manhole cover height adjustment. Cover adjustment shall be carried out by Sydney Water accredited constructors for major works.
- Existing pipes which form no part of the drainage system are to be removed.
- All pipes & pits to be spigot and socket with rubber ring joints unless otherwise indicated.
- Pipe installation is designed in accordance with Concrete Pipe Association of Australia publication "Concrete Pipe Selection and Installation".
- The reference point for pits and headwalls are indicated on the model drawings.
- At gully pits a 3m length of 100mm diameter subsurface drainage pipe shall be provided in accordance with MD.R33.A08.
- Attention is directed to the possible existence of underground utilities not shown on the drawings, or locations or elevations different from those shown on the drawings. the exact location of each underground utility shall be verified on site prior to doing any work that may damage such utility.
- Location of existing drainage lines & pits is indicative only. Exact location should be verified on site.
- Existing pipe to be abandoned & plugged with low strength concrete.

DRAINAGE LEGEND

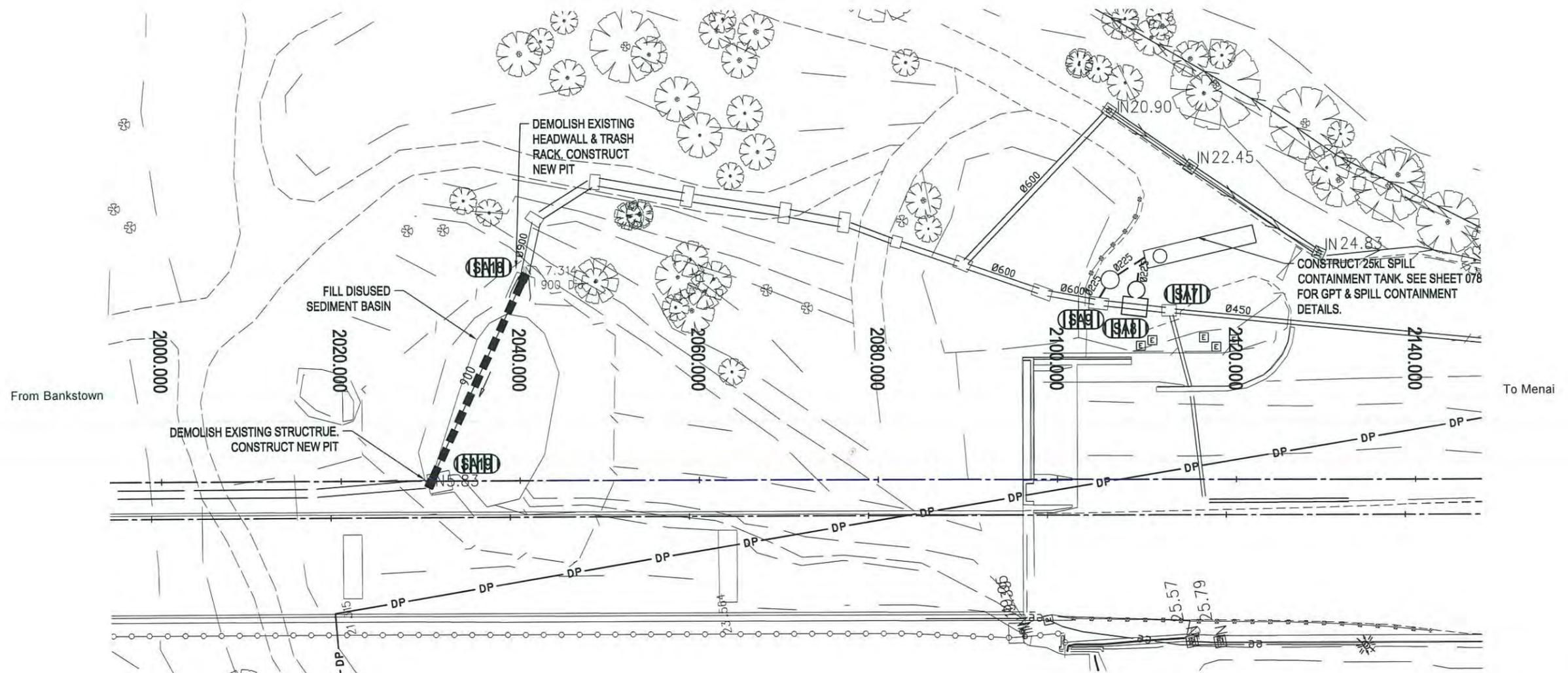
- EXISTING GULLY PIT & INVERT LEVEL
- EXISTING DRAINAGE LINE
- NEW DRAINAGE LINE
- NEW PIT

LEGEND

- NEW STREETLIGHT
- NEW ELECTRICAL CONDUITS & JUNCTION PIT

PUBLIC UTILITIES LEGEND

WATER	ew	ELEC. U/GROUND	ee
HYDRANT	□	ELEC. O/HEAD	ee
STOP VALVE	▲	ELEC. POWER POLE	○
SEWER	es	ELEC. LIGHT POLE	☀
SEWER MANHOLE	⊗	ELEC. POWER/LIGHT POLE	○
SEWER LAMPHOLE	⊙	STAY POLE	⊗
TELECOM	et	ELEC. CABLE JUNCTION PIT	⊞
TELECOM PIT	⊞	ELEC. TRANSFORMER CABINET	⊞
TELECOM PILLAR	⊙	GAS	eg
OPTIC FIBRE JUNCTION BOX	⊞	GAS VALVE	⊞
TRAFFIC SIGNAL JUNCTION BOX	⊞	SPEED / RED LIGHT CAMERA	⊞



ISSUED FOR CONSTRUCTION

Rev.	Amendment or Reason for Issue	Date	Drawn	Designed	Verified	Auth(*)
0	ISSUED FOR CONSTRUCTION	15.04.09	TJM	AL	VJS	VJS

(*) Unless there is an authorised Hughes Trueman signature at *, this drawing is not authorised for issue.

A3 original This plan may be prepared using colour and may be incomplete if copied to black and white.

Scale: 1:500 @ A3

Co-ord System: MGA Height Datum: AHD

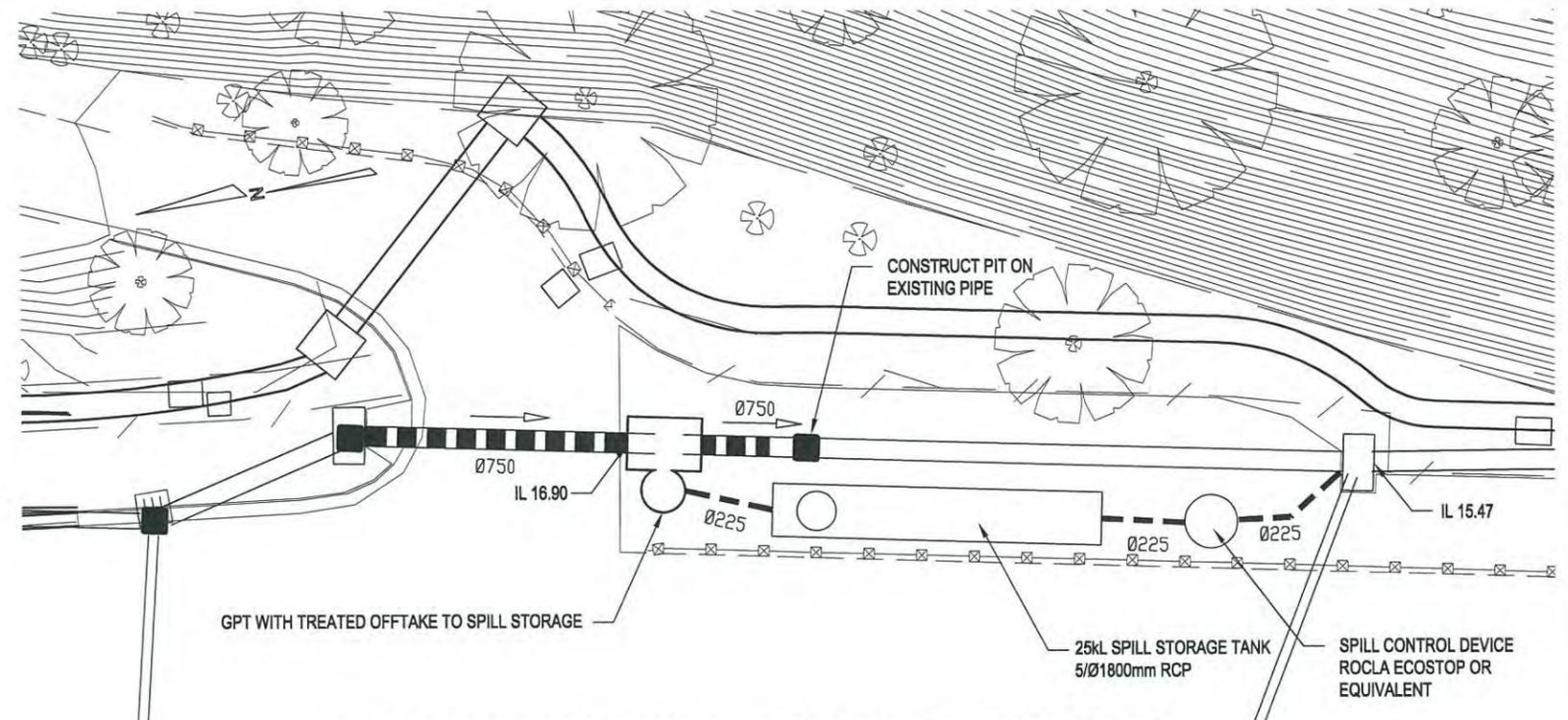
PREPARED BY:
DESIGN ALLIANCE
HughesTrueman
Consulting Engineers Planners & Managers

ROADS AND TRAFFIC AUTHORITY, NSW

BANKSTOWN CITY COUNCIL AREA
MR 190 - ALFORDS POINT ROAD
ROAD RECONSTRUCTION AND WIDENING
ALMA ROAD TO ALFORDS POINT BRIDGE
DRAINAGE & UTILITIES PLAN

FILE No.	HT DRAWING No.	REVISION	SHEET No.
	07S723AP-RC076	0	076
REGISTRATION NUMBER			No. of SHEETS
0190.026.RC.2517			290

NOTE:
INVERT LEVELS FOR SPILL CONTROL SYSTEM TO BE ADVISED BY SUPPLIER

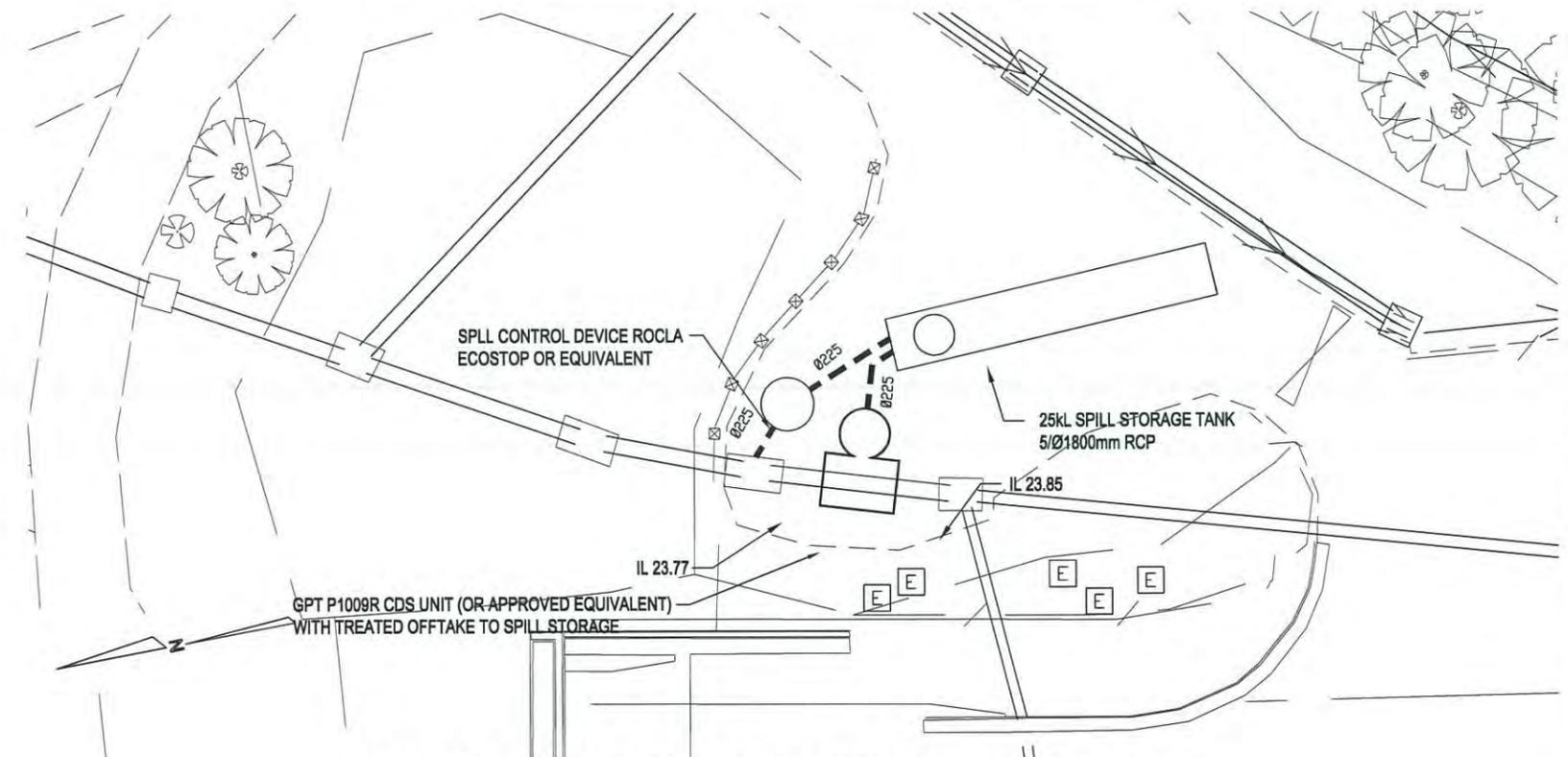


NORTHERN SPILL CONTROL SYSTEM

GPT SPECIFICATION

	NORTH	SOUTH
TREATABLE FLOW RATE	160L/s	150L/s
BYPASS FLOW	600L/s	600L/s
CATCHMENT AREA	1.53Ha	NA

SEE SUPPLEMENTARY DRAWING 208162/01 FOR FURTHER DETAILS
* TO BE CONFIRMED PRIOR TO CLOSING TENDERS



SOUTHERN SPILL CONTROL SYSTEM

ISSUED FOR CONSTRUCTION

Rev.	Amendment or Reason for Issue	Date	Drawn	Designed	Verified	Auth(*)
0	ISSUED FOR CONSTRUCTION	15.04.09	TJM	AL	VJS	VJS

(*) Unless there is an authorised Hughes Trueman signature at *, this drawing is not authorised for issue.

A3 original This plan may be prepared using colour and may be incomplete if copied to black and white.



Co-ord System: MGA Height Datum: AHD

PREPARED BY:
DESIGN ALLIANCE
HughesTrueman
Consulting Engineers Planners & Managers

ROADS AND TRAFFIC AUTHORITY, NSW
BANKSTOWN CITY COUNCIL AREA
MR 190 - ALFORDS POINT ROAD
ROAD RECONSTRUCTION AND WIDENING
ALMA ROAD TO ALFORDS POINT BRIDGE
SPILL CONTROL SYSTEM

FILE No.	HT DRAWING No.	REVISION	SHEET No.
	07S723AP-RC078	0	078
REGISTRATION NUMBER			No. of SHEETS
0190.026.RC.2517			290

Appendix F
Meeting Minutes



Minutes

04 July 2012

Project	Alfords Point Rd REF	From	Katrina Smallwood
Subject	REF Program and status of specialist report RMS reviews	Tel	02 9239 72237223
Venue/Date/Time	RMS Offices, Argyle Street, Parramatta 21 June 2012 2:30pm – 4pm	Job No	21/21268
Copies to	All attendees and Name (Company)		
Attendees	Kali Gupta (KG), Steven Bywater (SB), Peter Wassell (PW), Ben Cartwright, Hannah Shuttleworth (HS), Mick Fallon (MF), Greg Jackson (GJ), Katrina Smallwood (KS), Nicholas Kelly (NK)	Apologies	

Minutes	Action	By whom
RMS has met with SCC. Main concerns with proposal are advised to consider: <ul style="list-style-type: none">Menai, proposed state significant development however no details yet re the development, traffic etcRemoval of informal truck stop area may result in other cleared areas being used, also area near Brushwood Drive (may need chain wire fence of landscaping to deter), pedestrian movements etc.	RMS to respond to SCC RMS design section to take suitable action	KG
Project description: some items to note <ul style="list-style-type: none">Breakdown area now identifiedVMS relocationTwo breaks in median (one removable barrier, another is gap in existing and proposed)Entry boom gate at new truck stop areaChain wire cleared area near Brushwood Dr (or reveg)Site compounds: some potential compounds identified by SB may not be suitable due to topography/sensitive environment/ access. Confirm for REF and note additional stockpile areas likely.		KS
Noise report (RMS managed study) <ul style="list-style-type: none">A draft report has been reviewed by HS. Site visit then	RMS review revised noise report when	KG

Minutes	Action	By whom
<p>undertaken to discuss potential noise walls and modelling etc. Report is being modified and should be available at the end of next week, showing noise wall locations (anticipated to run behind houses and may be recommended along the roadside).</p> <ul style="list-style-type: none"> Constructability review then required to determine if feasible to build in recommended locations (or if architectural treatment required). Must be confirmed prior to concept plan going on display to community. 	submitted and do constructability review.	
<p>Traffic and transport</p> <ul style="list-style-type: none"> RMS has reviewed initial reports. Revised report due next week. GHD to review the report and suggest the changes. Report will be ready for REF chapter. 	RMS issue to GHD.	KG
<p>Urban design</p> <ul style="list-style-type: none"> Revised draft report has been prepared. The report has assumed that the noise walls will be feasible to build. Report may need adjustments when revised noise report is available. Landscaping plans have been prepared. Two rest areas recommended (Ch 600 & 1400), reveg of batters, species etc. All feasible. REF chapter can be prepared once noise wall constructability is confirmed. 	Constructability of noise walls to be confirmed	KG GJ KS
<p>Aboriginal heritage (GHD managed study)</p> <ul style="list-style-type: none"> RMS have advised no comments on draft report (draft report assumes no impacts to rock shelter). GHD can prepare REF chapter now. 	Prepare REF chapter	KS
<p>Non-Aboriginal heritage (GHD managed study)</p> <ul style="list-style-type: none"> RMS review comments received. Report being updated. REF chapter can be prepared once received 		KS
<p>Ecology (GHD prepared and managed)</p> <p>Question re figures. 'Areas of clearing' file provided in March was used for impact area. HS wants the 'extent of field survey'</p>		KS

Minutes	Action	By whom
file used for impact area as construction areas not yet known.		
Drainage (GHD prepared and managed)		
<ul style="list-style-type: none"> Overview of drainage concept provided. Report is still WIP. 		
<ul style="list-style-type: none"> New design provided by RMS this morning – will need to check against drainage concept (PW advised no major changes). 		NK
<ul style="list-style-type: none"> Additional survey may be required near Brushwood Drive. Files provided my RMS today may have this. NK to check and if required provide survey request to RMS 		NK
<ul style="list-style-type: none"> Item 2 in the drainage criteria states: The design width of gutter flow not to exceed 1.5 from the kerb face during events with frequencies of up to and including 20 year ARI. 		PW
<p>RMS confirmed they are satisfied to adopt a 10yr ARI design storm event for pavement assessment purposes. The acceptable flow width adjacent to the Type F median barrier is 1.0m (RMS advise if this is correct)</p>		
<ul style="list-style-type: none"> Report/plans need to show: catchment boundaries and areas, discuss the existing and the impacts (change in flows/quantities), basins required (short and long term, Ch1150 is option), water quality & any controls required 		NK
Consultation:		
<ul style="list-style-type: none"> Concept design aiming to go on display July, with comments back in August. 		
<ul style="list-style-type: none"> Constructability of noise walls needs to be confirmed prior to design going on display, as design should show proposed locations. Do not want problems going to community with nominated noise wall locations and discovering later they can't be constructed there. 		KG
REF progress:		
<ul style="list-style-type: none"> Previous advice (meeting was to aim for draft REF after consultation, in case design changes). 		KS
<ul style="list-style-type: none"> REF is set up and we're currently drafting project description, to then be sent to RMS for completion (as no concept design report available). 		

Minutes	Action	By whom
<ul style="list-style-type: none"> • KG is keen to progress the first draft REF prior to consultation being completed. HS noted there is a risk that an additional version of the REF would be required. KG suggested that the corridor is constrained and design changes unlikely but variations can be discussed should design changes/ REF rework occur. • KS to progress REF based on current design and information provided to GHD. KS advised project description will be sent to KG/PW soon. GHD to prepare the project description based on the info already provided to GHD and not totally rely on RMS to write the description. This should be discussed with HS and 'signed off' for use, prior to REF assessment chapters being prepared. 		
<p>Program overall:</p> <p>KG confirmed REF should proceed on current design and information provided to GHD. Program needs to be updated to reflect this.</p>	<p>REF program to be updated</p>	<p>KS</p>

Katrina Smallwood

Senior Environmental Scientist

GHD

Suite 2 317 River Street Ballina NSW 2478

PO Box 372 Ballina NSW 2478

T: 02 6620 6500 F: 02 6620 6501 E: bnkmail@ghd.com.au

© GHD 2012

This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
A	N Kelly	J Fleeting				21/06/12
B	N Charters	J Fleeting				29/06/12
C	N Charters	J Fleeting				30/08/12
D	N Kelly	J Fleeting				07/11/12