

MA-MD-LU-GE-9000201
MA-MD-LU-GE-9000202
MA-MD-LU-GE-9000203
MA-MD-LU-GE-9000204
MA-MD-LU-GE-9000205
MA-MD-LU-GE-9000206

No.	BY	DATE	DESCRIPTION	APPD
4	CG	19/08/11	ISSUED FOR CONSTRUCTION - EG DESIGN	
5	CG	11/05/10	ISSUED FOR CONSTRUCTION	
4	CG	26/07/08	ISSUED FOR CONSTRUCTION	
3	CG	1/12/09	ISSUED FOR CONSTRUCTION	

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHKD	APPD

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SCALES: NOT TO SCALE



FOR CONSTRUCTION | MA-MD-LU-GE-90000206
STATE: NSW
DRAWING NO: MA-MD-LU-GE-90000206
SHEET 3 OF 5
REV: 06

ILC AT ENFIELD
LANDSCAPE KEY PLAN



CLIENT

DESIGNER
AECOM Australia Pty Ltd
A.B.N. 20 095 846 925
DRAWN BY
FOR CONSTRUCTION MA-MD-LU-GE-900003 106



LEGEND

--- SITE PREPARATION BOUNDARY

[Pattern]	PREPARATION AREA TYPE 1
[Pattern]	PREPARATION AREA TYPE 2
[Pattern]	PREPARATION AREA TYPE 3
[Pattern]	PREPARATION AREA TYPE 4
[Pattern]	PREPARATION AREA TYPE 5
[Pattern]	PREPARATION AREA TYPE 6

SITE PREPARATION SCHEDULE

Preparation Area	General Description	Weed Eradication	Planting Type	Placement of Site Spoil	Topsoil	Soil Ameliorants
PA1	Clear noxious weeds only	Noxious Weeds only	Not applicable	Not applicable	Not applicable	Not applicable
PA2	Clear all weeds, minor trim and grub prior to direct seeding	Yes as specified	Community trees Community plants Community shrubs Community grasses Community herbs Community perennials Community ferns Community palms Community trees	no > 30mm ² to be ameliorated in situ for areas with low to medium vegetation 100% soil tested for areas with a slope of 1:3 or greater	no impact of topsoil. In this case soils to be ameliorated on call based on test results. No engineering recommendations based on test results. Soil specialist.	as required based on call based on test results. No engineering recommendations based on test results. Soil specialist.
PA3	Clear all weeds, minor trim and grub prior to planting	Yes as specified	Community trees Community plants Community shrubs Community grasses Community herbs Community perennials Community ferns Community palms Community trees	no > 30mm ² to be ameliorated in situ for areas with low to medium vegetation 100% soil tested for areas with a slope of 1:3 or greater	no impact of topsoil. In this case soils to be ameliorated on call based on test results. No engineering recommendations based on test results. Soil specialist.	as required based on call based on test results. No engineering recommendations based on test results. Soil specialist.
PA4	Areas of this site require the placement of an impermeable clay lining during subsequent works.	no topsoil	As per specification	no topsoil	Impact topsoil for planting, which is specified.	no topsoil
PA5	Areas of the site nominated as part of the site retention ponds, special seed media required for use within these areas.	no topsoil	Special seed media as specified	Special seed media as specified	Impact topsoil / Site retention floor media as specified	no topsoil
PA6	Provision of water granules for use in site retention ponds. Refer to the site retention pond design for details of installation and requirements.	Refer to PA2	Refer to PA2	Refer to PA2	Refer to PA2	Refer to PA2

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DESIGNED	CHECKED	DATE
SC	SC	19/08/11
CG	CG	
SC	SC	
DATE	DATE	DATE
19/08/11	19/08/11	19/08/11

SCALE: 5, 0, 10, 20, 30, 40m

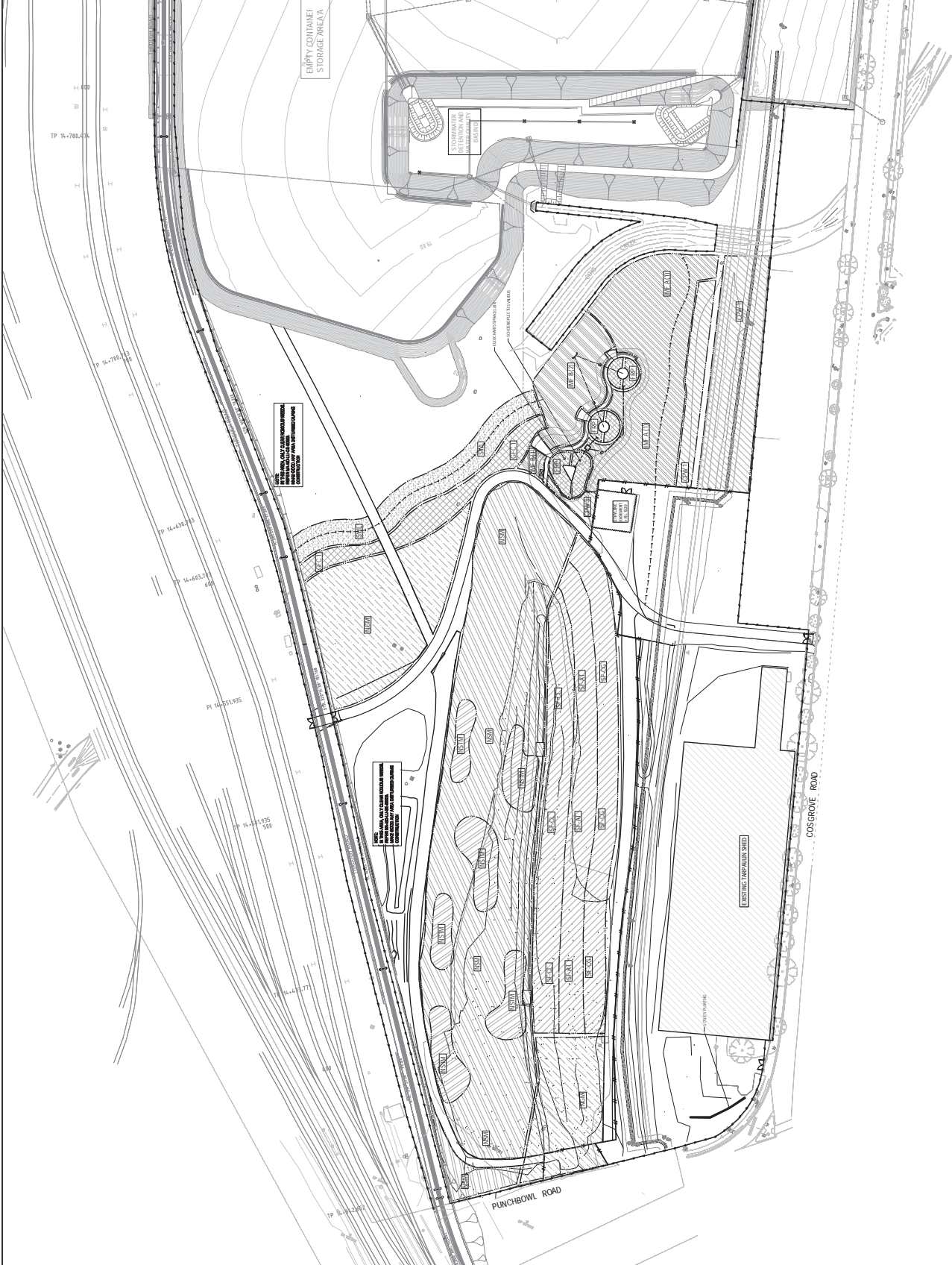
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NO.	BY	DATE	DESCRIPTION
6	TR	31/07/14	ISSUED FOR CONSTRUCTION
5	CG	19/08/11	ISSUED FOR CONSTRUCTION
4	CG	28/07/10	ISSUED FOR CONSTRUCTION
3	CG	11/2/09	ISSUED FOR CONSTRUCTION
APPROVED			

LEGEND

- PLANTING COMMUNITY BOUNDARY
- CLIMBER AND PLAIN WOODLAND
- SHEGOK FOREST
- NATIVE GRASSSWA
- SWALE
- GRASSLAND FOREG MOVEMENT CORRIDOR
- BORRENTON BASIN
- IMPROVED FORGE MW1
- IMPROVED FORGE MW2
- FROG POND/MACKOPHYTES
- BORRENTON BASIN WATERS

NOTE: THESE PLANTING COMMUNITY BOUNDARIES ARE TO BE USED IN THE LAMP AND THE LANDSCAPE CLEARING AND GRUBBING SPECIFICATION



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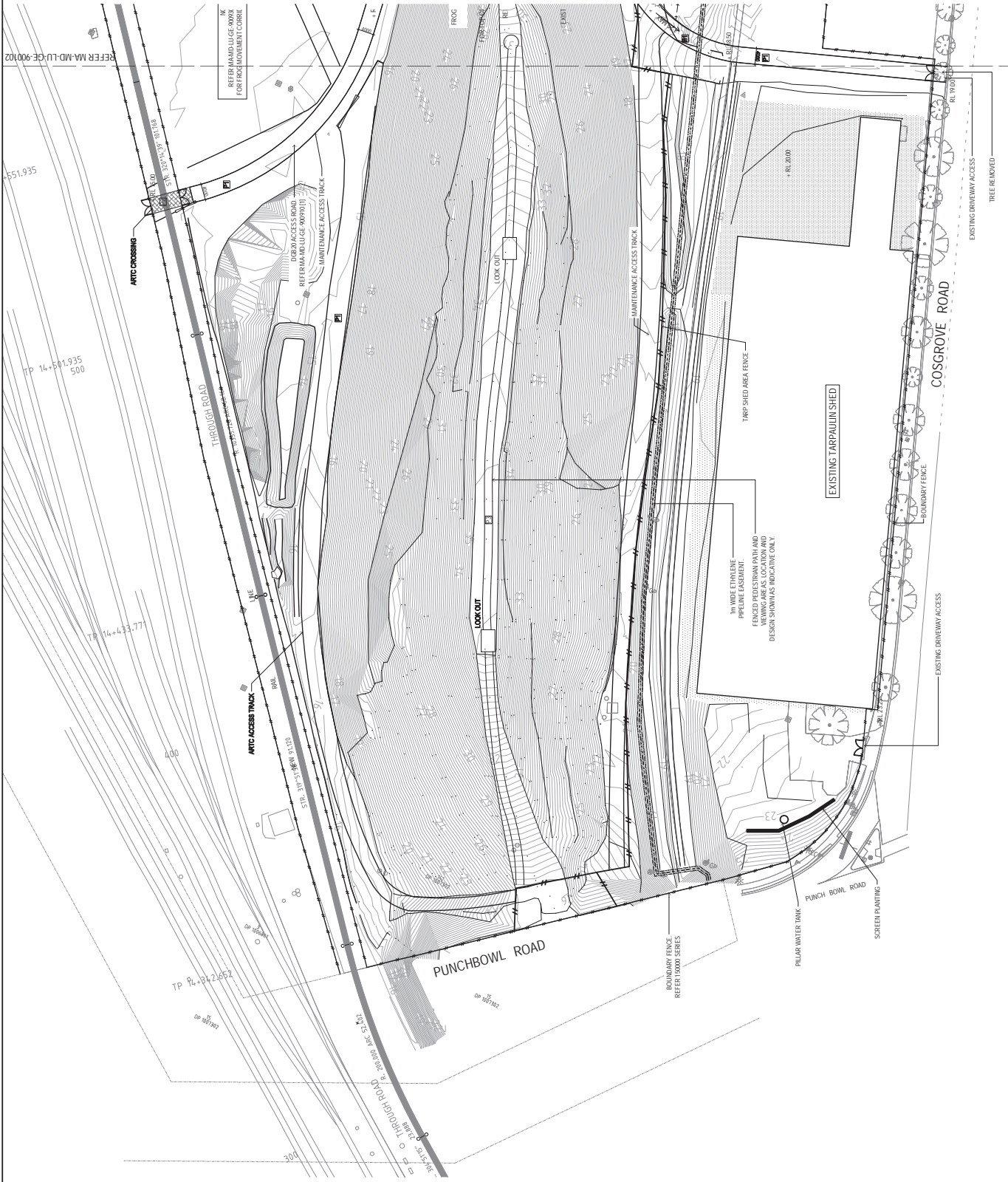
No.	BY	DATE	DESCRIPTION	APPD
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7	CG	19/08/11	ISSUED FOR CONSTRUCTION	
6	CG	11/05/10	ISSUED FOR CONSTRUCTION	
5	CG	26/07/08	ISSUED FOR CONSTRUCTION	
4	CG	4/12/09	ISSUED FOR CONSTRUCTION	
3	CG	1/12/09	ISSUED FOR CONSTRUCTION	

SCALES: 1:1000, 1:500, 1:200, 1:100, 1:50, 1:20, 1:10, 1:5, 1:2, 1:1

CLIENT: SYDNEY PORTS
 FIRST PORT. FUTURE PORT

DESIGNER: AECOM
 AECOM Australia Pty Ltd
 A.B.N. 20 093 846 975

FOR CONSTRUCTION MA-MD-LU-GE-900004.08
 SHEET 5 OF 5



LEGEND

	EXISTING ETHYLENE ENCLOSURE FENCE
	EXISTING ETHYLENE PIPELINE
	1M WIDE ETHYLENE PIPELINE EASEMENT
	BOUNDARY FENCE REFER 15000 SERIES
	FENCE WITH GATE VALVE PIT WITH COVERS AND OUTLETS
	FROG PONDS
	ROCK RETAINING WALL
	PRECAST CONCRETE HEAD WALLS & BATTERS REFER TO DRAWING
	PAVEMENT TYPE 1 (ASPA) REFER TO DRAWING
	PAVEMENT TYPE 2 (ASPA) REFER TO DRAWING
	PAVEMENT TYPE 3 (ASPA) REFER TO DRAWING
	SANDSTONE BALLAST
	CONCRETE TO BORE/RETENTION BATTERS REFER TO DRAWING
	TYPICAL SPOT LEVELS
	MAXIMUM ULTIMATE FALL OF GRADED SLOPES
	MAXIMUM SLOPE OF PATHWAYS

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NO.	BY	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION	APPD.
1	TR	31/07/14	ISSUED FOR CONSTRUCTION		
2					
3					
4					
5					
6					
7					
8					

THE SIGNING OF THIS TITLE BLOCK CONFIRMS THE DESIGN AND DRAWING OF THIS PROJECT HAS BEEN CHECKED AND APPROVED BY THE DESIGNER WITH THE AECOM QUALITY ASSURANCE SYSTEM TO BS 9001:2008

DESIGNED	DRAWN	APPROVED	DATE
SC	CG	SC	19/08/11

CLIENT
SYDNEY PORTS
 FIRST PORT. FUTURE PORT.

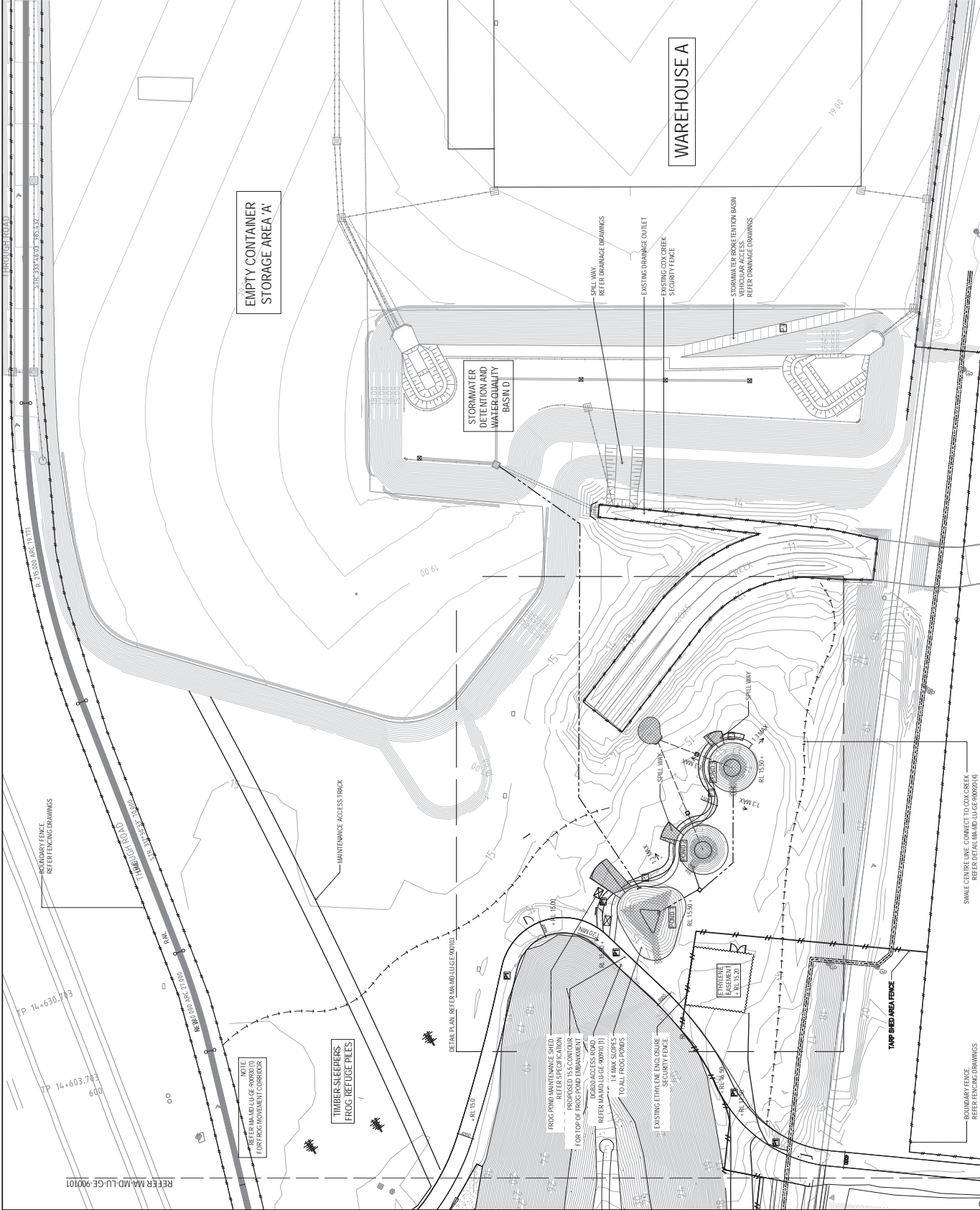
DESIGNER
AECOM
 AECOM Australia Pty Ltd
 A.B.N. 20 95 846 925

PROJECT
 ILC AT ENFIELD
 LANDSCAPE GENERAL ARRANGEMENT PLAN

STATUS
 FOR CONSTRUCTION

DRAWINGS
 MA-MD-LU-GE-900101_09

SHEET 1 OF 3



LEGEND

- EXISTING ETHYLENE ENCLOSURE FENCE
- EXISTING ETHYLENE PIPELINE
- NOTE: REFER FENCING DRAWINGS FOR BOTH TYPES OF FENCING AND PERKS: PERKS SHALL BE PERKS WITH BARRIEF FENCE.
- SWALE CENTRE LINE
- REFER DETAIL MA-MD-LU-GE-90020(4)
- FROG PONDS
- ROCK RETAINING WALL
- 1:1 BATTER
- FROG REFUGE MOUDING: REFER MA-MD-LU-GE-90030(2)
- PRECAST CONCRETE HEAD WALLS & REFER DRAINAGE DRAWINGS
- REFER DRAINAGE DRAWINGS FOR ALL GATE VALVE FIT WITHCOVERS AND OUTLETS
- REFER DRAINAGE DRAWINGS FOR ALL TIMBER PILES (SHEET)
- FROG POND MAINTENANCE SHED: REFER SPECIFICATION
- PAVEMENT TYPE 1: LOGGED REFER MA-MD-LU-GE-90010(1)
- PAVEMENT TYPE 2: ASPHALT CROSSING: REFER DETAIL MA-MD-LU-GE-90010(4)
- PAVEMENT TYPE 3: REFER DETAIL MA-MD-LU-GE-90010(4)
- SANDSTONE BALLUST
- SOFT PATCH: TO PROTECTION BATTERS: REFER TO MA-MD-CIDR-12003
- TYPICAL SPOT LEVELS
- MINIMUM MAXIMUM FALL OF GRADED SLOPES
- MAXIMUM SLOPE OF PATHWAYS

DESIGNED: SC CHECKED: SC
 DRAWN: CG CHECKED: SC
 APPROVED: SC DATE: 19/08/11

SCALE: 1:100

CLIENT: SYDNEY PORTS
 FIRST PORT. FUTURE PORT

DESIGNER: AECOM
 AECOM Australia Pty Ltd
 A.B.N. 20 093 846 925

PROJECT: ILC AT ENFIELD
 LANDSCAPE GENERAL ARRANGEMENT PLAN

STATUS: FOR CONSTRUCTION
 DRAWING NO: MA-MD-LU-GE-900102_09
 SHEET 2 OF 3

THE SCOPES OF THIS TITLE BLOCK COVER THE DESIGN AND DRAFTING OF THE PROJECT WITH THE AECOM QUALITY ASSURANCE SYSTEM TO ISO 9001:2000

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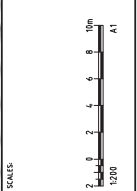
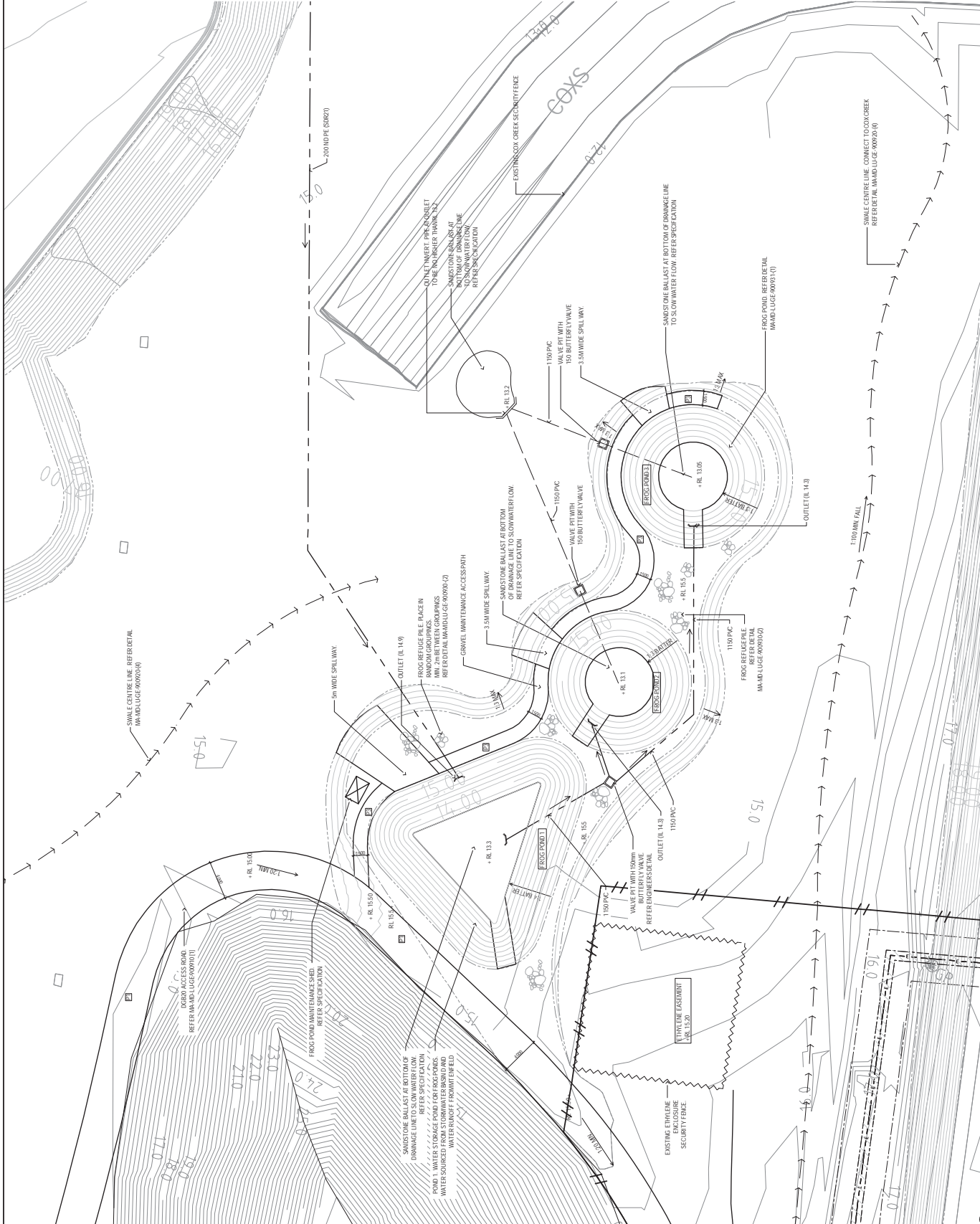
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No.	IR	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION	APPD
9	18	31/07/14	ISSUED FOR CONSTRUCTION		

LEGEND

- EXISTING ETHYLENE ENCLOSURE FENCE
- EXISTING ETHYLENE PRELIME
- NOTE: REFER DRAINAGE DRAWINGS FOR PRELIME AND FENCE TO PREESTRIM BARRIER FENCE
- SMALL CENTERLINE REFERENTIAL (MAND LUGE 000000 (4))
- REFER DETAIL (MAND LUGE 000000 (4))
- FROG POND
- ROCK REFUGES WALL 1:1 BATTER
- FROG REFUGE INOUNDS REFER (MAND LUGE 000000 (2))
- PRECAST CONCRETE HEAD WALLS & REFER DRAINAGE DRAWINGS
- REFER DRAINAGE DRAWINGS FOR ALL GATE VALVE PIT WITH COMBINED OUTLETS
- REFER DRAINAGE DRAWINGS FOR ALL 1000mm PIPES (S001)
- FROG POND MAINTENANCE SHED REFER SPECIFICATION
- PAVEMENT TYPE 1 (L0000 REFER (MAND LUGE 000000 (1))
- PAVEMENT TYPE 2 (S0001 REFER (MAND LUGE 000000 (1))
- PAVEMENT TYPE 3 (S0002 REFER (MAND LUGE 000000 (1))
- DECORATED GRANITE REFER (MAND LUGE 000000 (4))
- SANDSTONE BALLAST
- VALVE PIT WITH BUTTERFLY VALVE REFER SPECIFICATION
- SANDSTONE BALLAST AT BOTTOM OF DRAINAGE LINE TO SLOW WATER FLOW REFER SPECIFICATION
- BATTERS REFER TO (MAND LUGE 000000 (1))
- TYPICAL SPOT LEVELS
- MINIMUM MAINTENANCE OF GRADED SLOPES
- 1400 MM MAX FALL
- 144 MAX

NOTE:
ALL AREAS BETWEEN BACK OF KERB AND PRIVATE LEASE BOUNDARY EXCLUDING CONCRETE FOOTPATHS SHALL BE PAVED WITH PAVEMENT TYPE 3 (P3) UNCOMPRESSED GRANITE.



THE SCHEME OF THIS TITLE COMPRISING THE DESIGN AND DRAINING OF THE PROJECT WITH THE ACCOMPANYING ASSURANCE SYSTEM IS AS FOLLOWS:

NO.	BY	DATE	DESCRIPTION	APPD.
8	TR	31/07/14	ISSUED FOR CONSTRUCTION	
7	CG	19/08/11	ISSUED FOR CONSTRUCTION	
6	CG	20/07/10	ISSUED FOR CONSTRUCTION	
5	CG	10/12/09	ISSUED FOR CONSTRUCTION	
4	CG	4/12/09	ISSUED FOR CONSTRUCTION	
3	CG	1/12/09	ISSUED FOR CONSTRUCTION	

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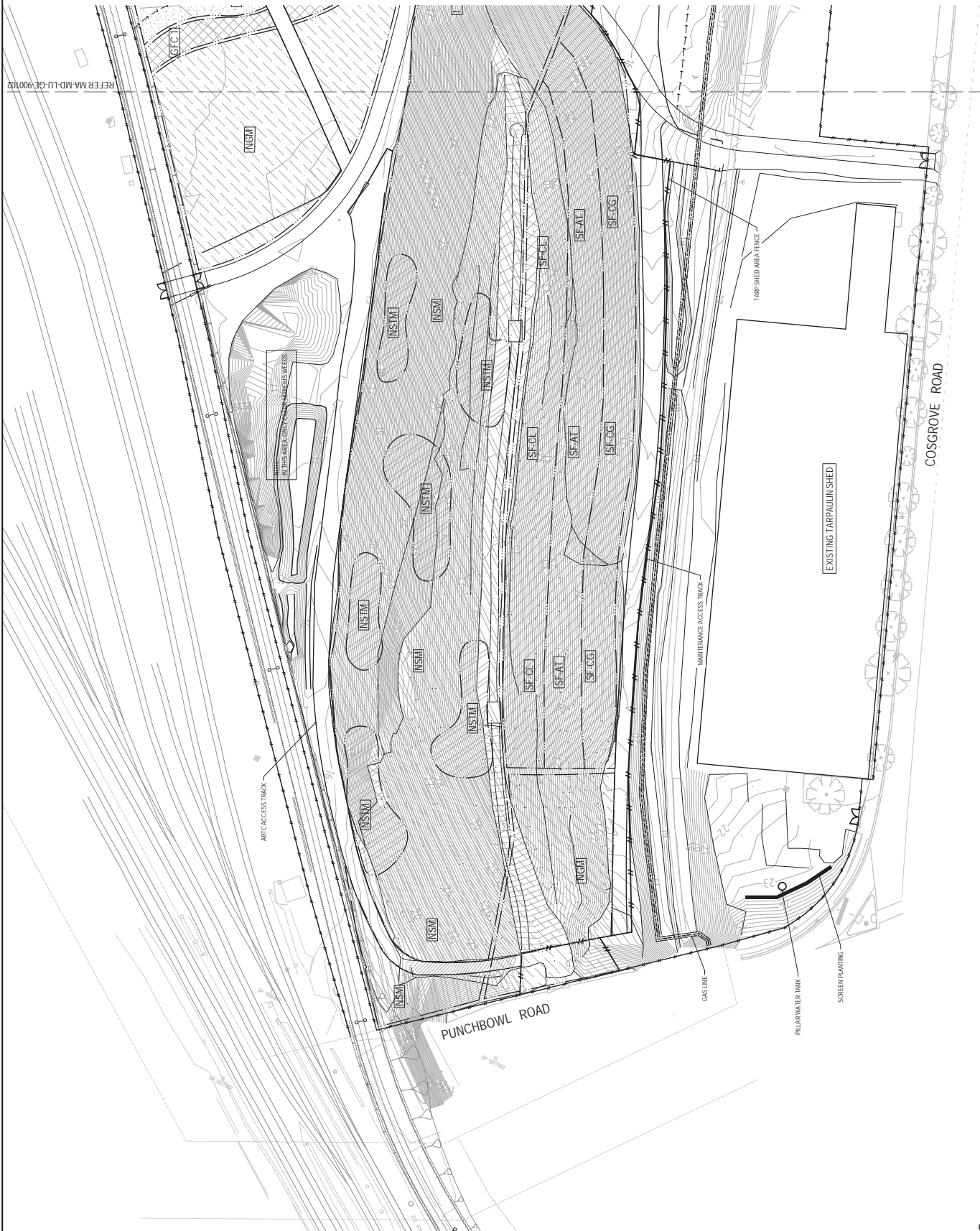
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A.B.N. 20 093 846 975

SYDNEY PORTS
FIRST PORT, FUTURE PORT

ILC AT ENFIELD
LANDSCAPE GENERAL ARRANGEMENT DETAIL PLAN

STATUS: FOR CONSTRUCTION MA-MD-LU-GE-900103_08

SHEET 3 OF 3



LEGEND

- PLANTING COMMUNITY
 - BOUNDARY OF PLANTING COMMUNITY
 - REFER TO PLANTING SCHEDULE FOR PLANT COMMUNITY AREA TYPES AND QUANTITIES
 - CLIMBERLAND P/B RH
 - WOODLAND
 - SHEOAK FOREST
 - NATIVE GRASSLAND - REFER TO PLANTING SCHEDULE FOR QUANTITIES
 - SEEDING
 - GRASSLAND - FROG MOVEMENT CORRIDOR
 - IMPROVED FORAGE TYPE 1
 - IMPROVED FORAGE TYPE 2
 - PLANT IN MONOCULTURAL SWALES
 - LITTORALS
 - SHEOAK FOREST - CASUARINA
 - SHEOAK FOREST - TORALOSA
 - SHEOAK FOREST - CASUARINA
 - GUANCA
 - BURETMENTION BASIN
 - FROG POND MACROPHYTES
 - SWALE
 - CULTURAL PLANTINGS
- REFER TO SHEET MA-MD-LU-90040 - PLANTING SCHEDULES FOR PLANT MIX, QUANTITIES AND SPACINGS
- INSTALL ROOT GUARD WHERE KNOWN MEETS GRAVEL PATHS
- Notes**
- 1. MGS TO BE USED TO SET THE PROPOSED RAINWAY LINE ADJACENT TO THE TARPALIN FACTORY IS NOT WITHIN THE FILL REUSE AREA OF MODIFICATIONS.
 - 2. PLANTING COMMUNITIES TO BE USED TO SET THE RAINWAY LINE TO BE USED TO SET THE RAINWAY LINE.
 - 3. REFER TO SHEET MA-MD-LU-90040 - PLANTING SCHEDULES FOR PLANT MIX, QUANTITIES AND SPACINGS.
 - 4. INSTALL ROOT GUARD WHERE KNOWN MEETS GRAVEL PATHS.

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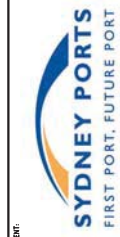
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NO.	BY	DATE	DESCRIPTION	APP'D
8	TR	31/07/14	ISSUED FOR CONSTRUCTION	
7	CG	28/11/11	ISSUED FOR PLANNING	
6	CG	19/08/11	ISSUED FOR CONSTRUCTION	
5	CG	10/05/10	ISSUED FOR CONSTRUCTION	
4	CG	26/07/08	ISSUED FOR CONSTRUCTION	
3	CG	11/02/09	ISSUED FOR CONSTRUCTION	

SCALES:

SC	DATE	BY	CHKD
SC	28/11/11	SC	SC
CG		CG	CG



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A.B.N. 20 093 846 925



CLIENT:

DESIGNER:

ILC AT ENFIELD

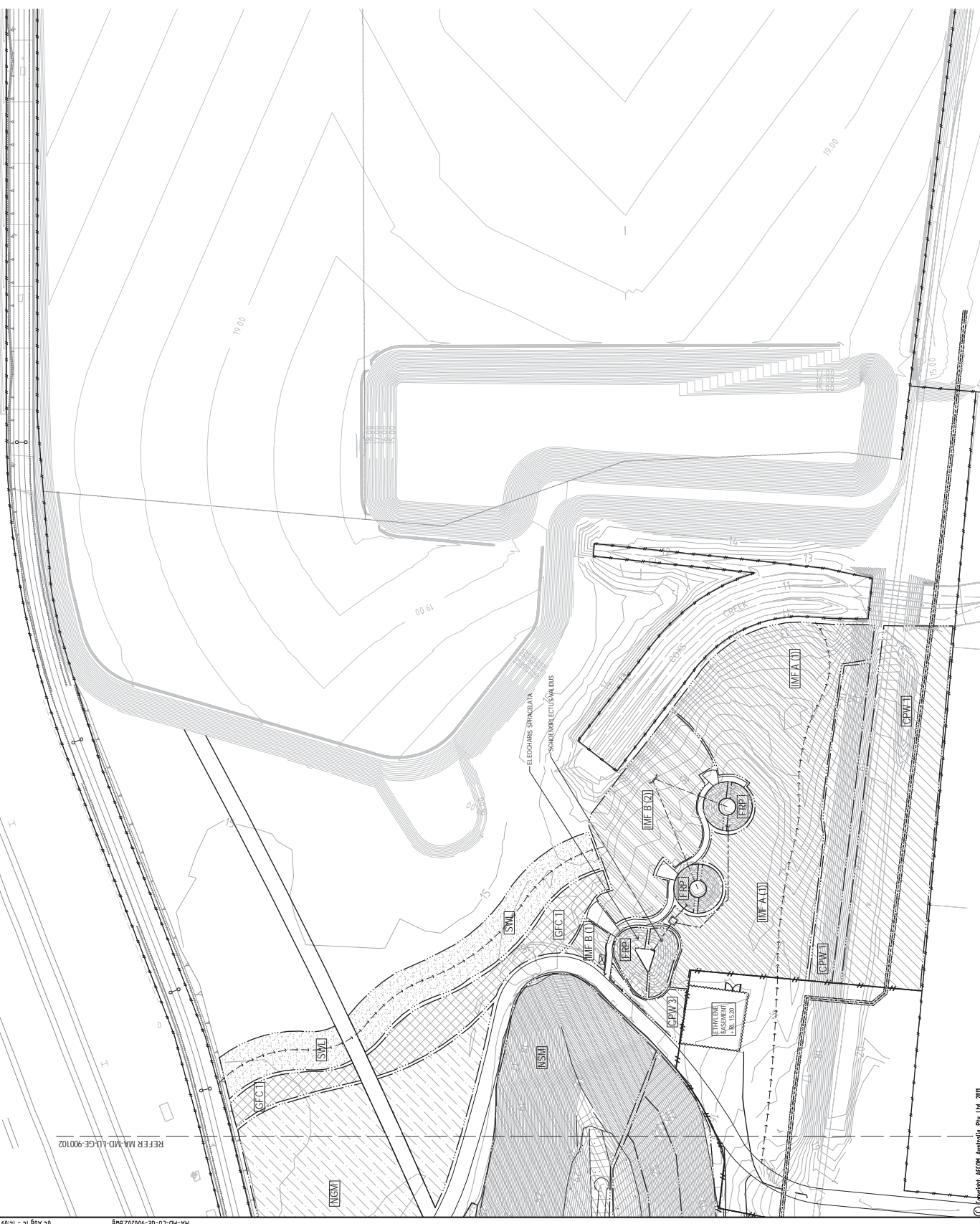
LANDSCAPE PLANTING PLAN

LEGEND

PLANTING COMMUNITY
 PLANTING COMMUNITY CODE
 REFER PLANTING SCHEDULE FOR
 PLANT COMMUNITY ABNATYPES
 PLANTING QUANTITIES

CUMBERLAND PLAIN
 WOODLAND
 SHEOAK FOREST
 NANG CRASS BAY WETLANDS
 MANDALAY WOODLAND FOR BATTER
 SEEDING
 GRASSLAND - FROG
 MOVEMENT CORRIDOR
 IMPROVED FORAGET TYPE 1
 IMPROVED FORAGET TYPE 2
 PLANT IN MONOCULTURE SWALES
 SHEOAK FOREST - CASUARINA
 LITTORALS
 SHEOAK FOREST -
 ALLOCSURINA TORULOSA
 SHEOAK FOREST - CASUARINA
 GLAUCA
 BORENATION BUSH
 FROG POND/MACKROPHYTES
 SWALE
 CULTURAL PLANTINGS

REFER TO SHEET (M AND L) FOR PLANTING
 SCHEDULES FOR PLANTING, QUANTITIES AND SPACING
 INSTALL ROOT GUARD WHERE KIKUYU MEETS GRAVEL
 PATHS



MA-MD-LU-GE-900202.dwg
 10 Aug 11 - 11:09

ILC AT ENFIELD
 LANDSCAPE PLANTING PLAN

STATUS: FOR CONSTRUCTION
 DRAWING NO: MA-MD-LU-GE-900202_08
 SHEET 2 OF 4
 BOX

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 A.B.N. 20 093 846 925

SYDNEY PORTS
 FIRST PORT, FUTURE PORT

CLIENT: SYDNEY PORTS

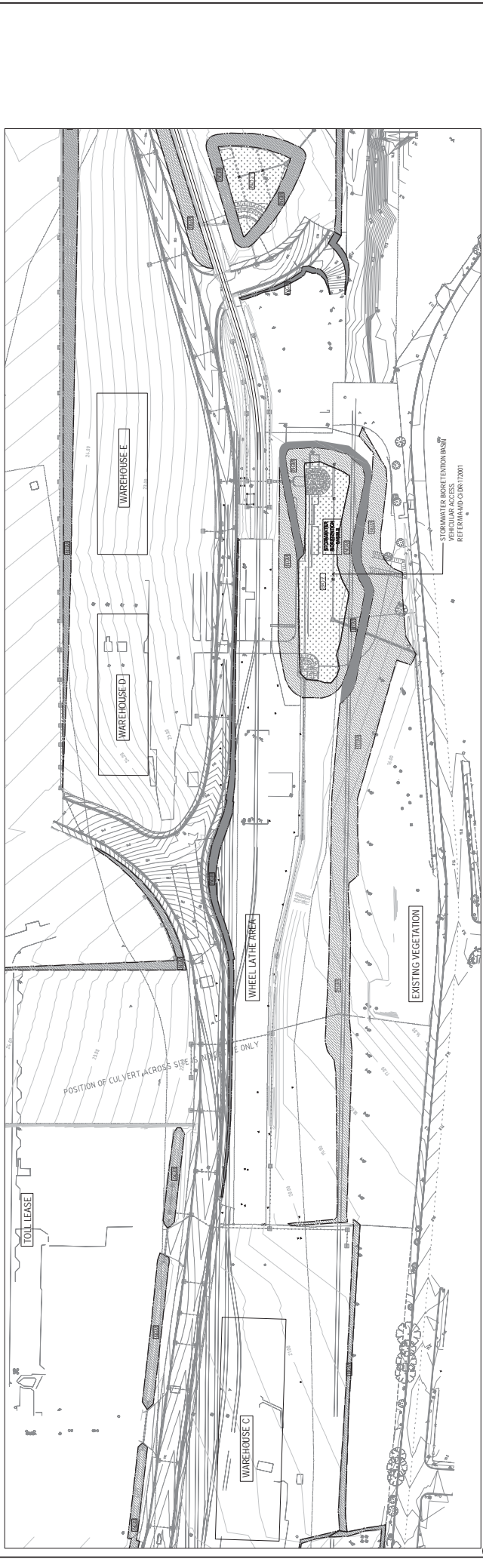
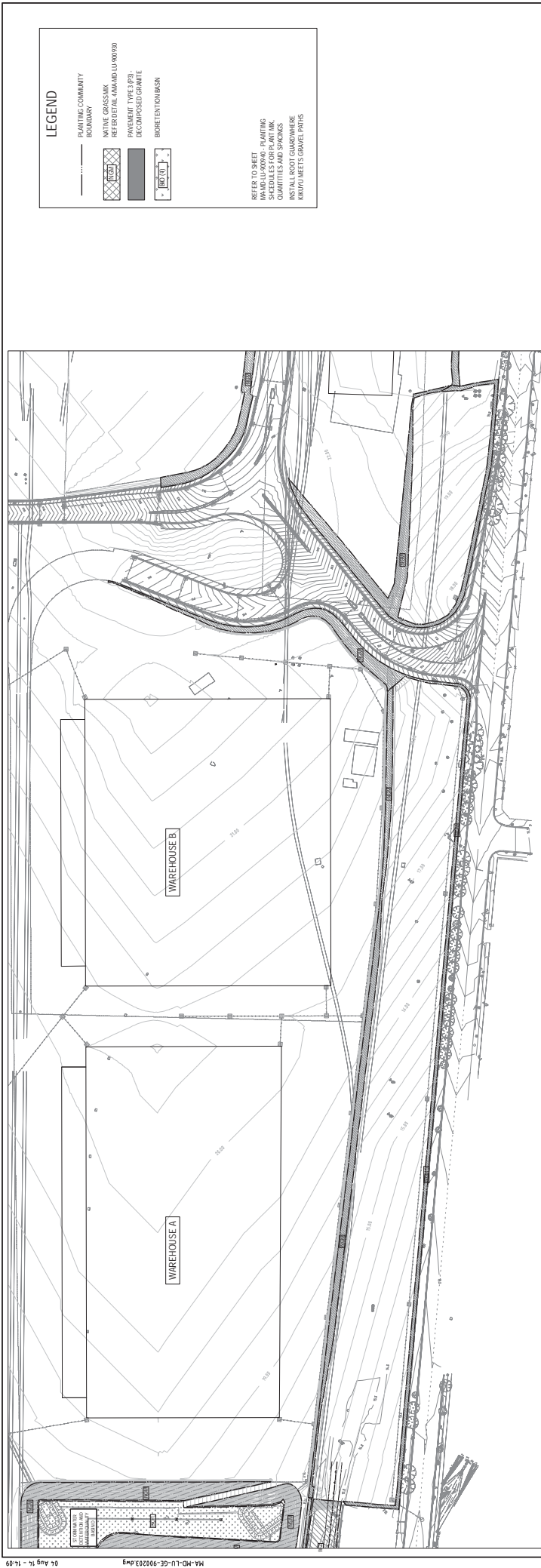
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NO.	BY	DATE	DESCRIPTION	APPD
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2	CG	19/08/11	ISSUED FOR CONSTRUCTION	SC
3	CG	11/05/10	ISSUED FOR CONSTRUCTION	SC
4	CG	28/07/11	ISSUED FOR CONSTRUCTION	SC
5	CG	11/02/09	ISSUED FOR CONSTRUCTION	SC

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THE SCHEME OF THIS TITLE BLOCK CONTAINS THE DESIGN AND PLANTING INFORMATION AND SHALL BE USED IN ACCORDANCE WITH THE ASSURANCE SYSTEM TO GO 9M1-2008



LEGEND

- PLANTING COMMUNITY
- BOUNDARY
- NATIVE GRASSES
- REFER DETAIL A14 AND LU 900/90
- PAVEMENT TYPE 1 (P1)
- DECOMPOSED GRANITE
- BORDETENDON BASIN

REFER TO SHEET PLANTING SCHEDULES FOR PLANTING QUANTITIES AND SPACINGS
INSTALL ROOT GUARDS WHERE KNOWN MEETS GROUND SURFACE

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No.	BY	DATE	DESCRIPTION
7	TR	31/07/14	ISSUED FOR CONSTRUCTION
6	CG	19/08/11	ISSUED FOR CONSTRUCTION
5	CG	26/07/08	ISSUED FOR CONSTRUCTION
4	CG	4/12/09	ISSUED FOR CONSTRUCTION
3	CG	1/12/09	ISSUED FOR CONSTRUCTION
			APPD

SCALES

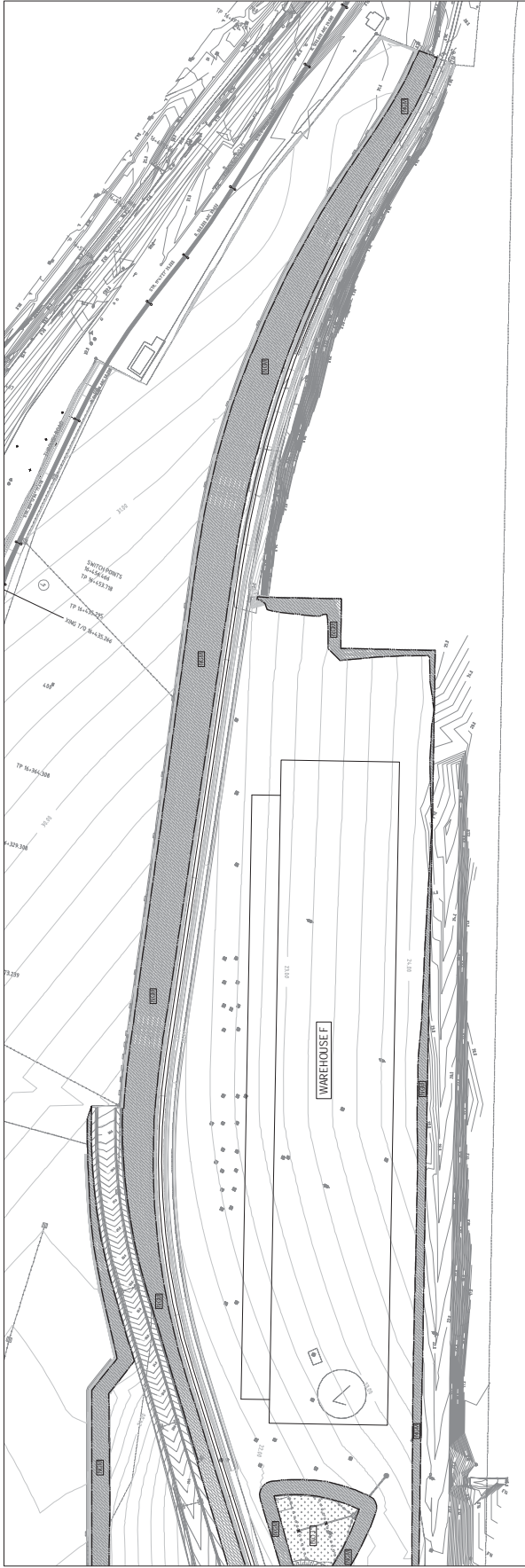
DESIGNED	SC	CHECKED	SC
DRAWN	CG	CHECKED	SC
APPROVED	SC	DATE	19/08/11

CLIENT: SYDNEY PORTS
FIRST PORT. FUTURE PORT

DESIGNER: AECOM
AECOM Australia Pty Ltd
A.B.N. 20 093 846 975

PROJECT: ILC AT ENFIELD
LANDSCAPE INTERMODAL TERMINAL AREA
PLANTING PLAN

STATUS: FOR CONSTRUCTION | MA-MD-LU-GE-900203 | 07
DRAWING: SHEET 3 OF 4
REV: 07



LEGEND

PLANTING COMMUNITY BOUNDARY
 NATIVE GRASSMIX
 REFERENCE: FAL AMANDA LU 80090
 PAVEMENT TYPE 3 (PP)
 DECOMPOSED GRANITE
 BORESTONE CURBSON

REFER TO SHEET FOR PLANTING SCHEDULES FOR PLANTING QUANTITIES AND SPACINGS
 INSTALL ROOT GUARD WHERE KNOWN/LET'S GRAVEL PITHS

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No.	BY	DATE	DESCRIPTION	APPD
1	CG	19/08/11	ISSUED FOR CONSTRUCTION	
2	TR	31/07/14	ISSUED FOR CONSTRUCTION	

DESIGNED	SC	CHECKED	SC
DRAWN	CG	CHECKED	SC
APPROVED	SC	DATE	19/08/11

SCALES:

CLIENT:

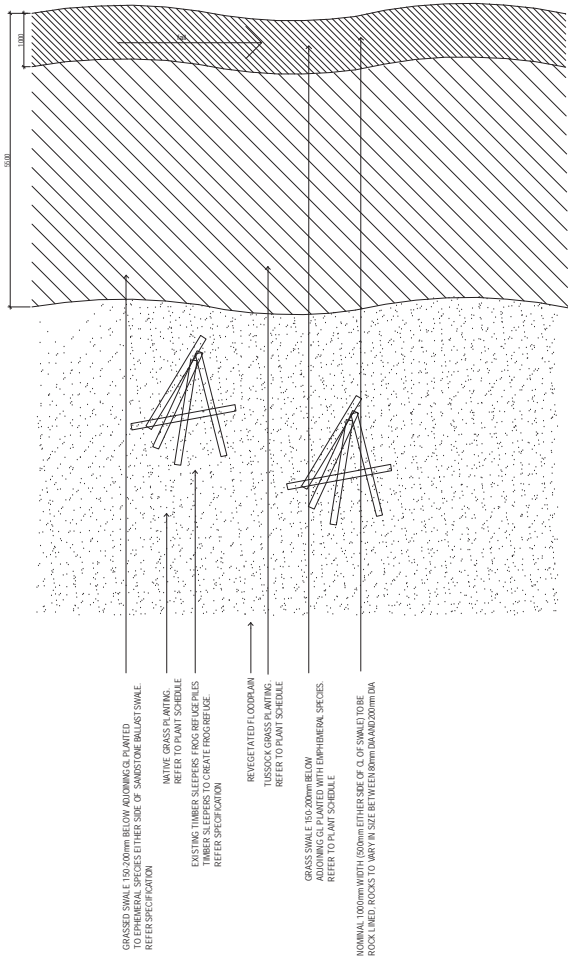


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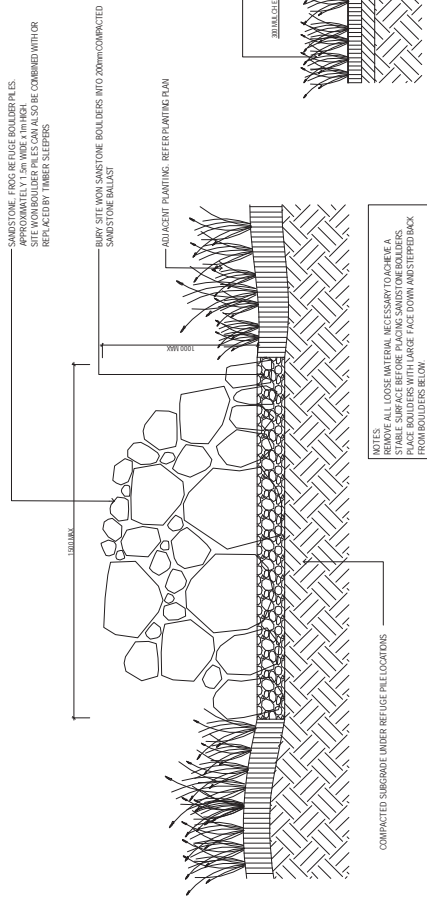
DESIGNER:

ILC AT ENFIELD

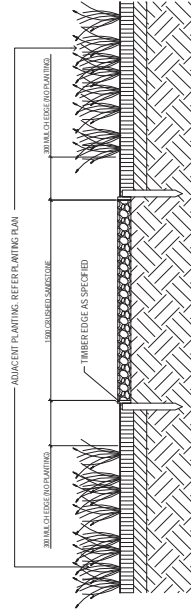
LANDSCAPE INTERMODAL TERMINAL AREA
 PLANTING PLAN



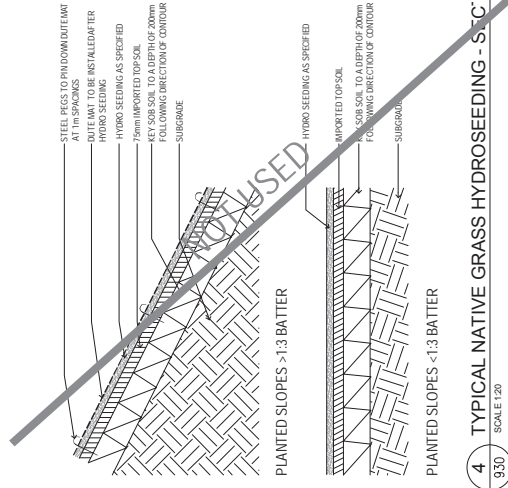
1 FROG MOVEMENT CORRIDOR - PLAN
9.30 SCALE 1:50



2 TYPICAL FROG REFUGE PILE - SECTION
9.30 SCALE 1:20



3 TYPICAL MAINTENANCE ACCESS PATH - SECTION
9.30 SCALE 1:20



4 TYPICAL NATIVE GRASS HYDROSEEDING - SEC
9.30 SCALE 1:20

ECO BLANKET SEEDING TO ALL BATTERS. REFER TO SPECIFICATION.

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No.	BY	DATE	DESCRIPTION	APPD.
1	TR	31/07/14	ISSUED FOR CONSTRUCTION	
2	CG	19/08/11	ISSUED FOR CONSTRUCTION	
3	CG	26/07/10	ISSUED FOR CONSTRUCTION	
4	CG	4/12/09	ISSUED FOR CONSTRUCTION	
5	CG	1/12/09	ISSUED FOR CONSTRUCTION	

SCALES:
THE SCALING OF THIS TITLE BLOCK COMBINES THE DESIGN AND DRAFTING SCALES WITH THE ACCURACY ASSURANCE SYSTEM TO GIVE 90% DIMS.

SC	DATE	SCALE
DESIGNED	SC	0.2 0.4 0.6 0.8 1.0m
DRAWN	CG	FULL SIZE A1
APPROVED	SC	1:20
	DATE	19/08/11
	DATE	FULL SIZE A1

CLIENT



DESIGNER

AECOM
AECOM Australia Pty Ltd
A.B.N. 20 093 846 975

ILC AT ENFIELD

LANDSCAPE DETAILS - FROG POND

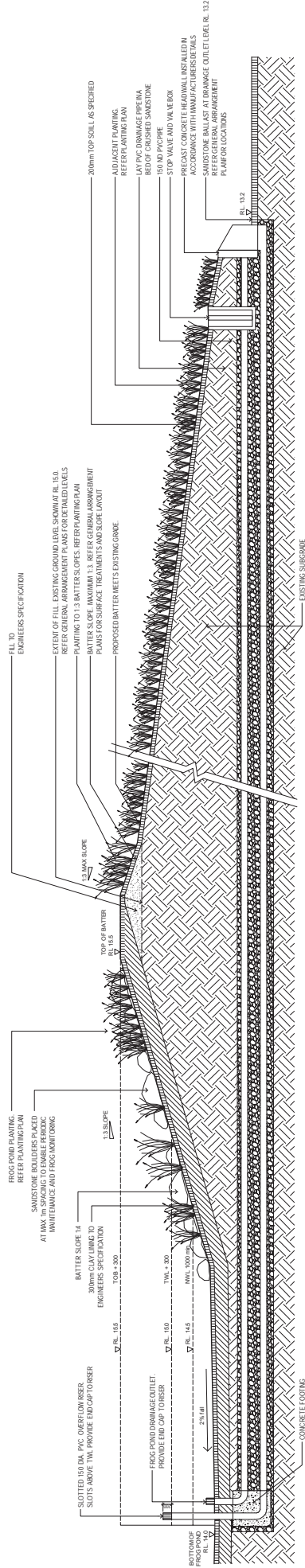
SHEET 1 OF 3

STATUS:

FOR CONSTRUCTION

DRAWING:

MA-MD-LU-GE-900930.07



1 FROG HABITAT POND - SECTION
 SCALE: 1:50
 931

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NO.	BY	DATE	DESCRIPTION
4	CG	19/08/11	ISSUED FOR CONSTRUCTION - EIT DESIGN
3	CG	1/12/09	ISSUED FOR CONSTRUCTION
	APPD		

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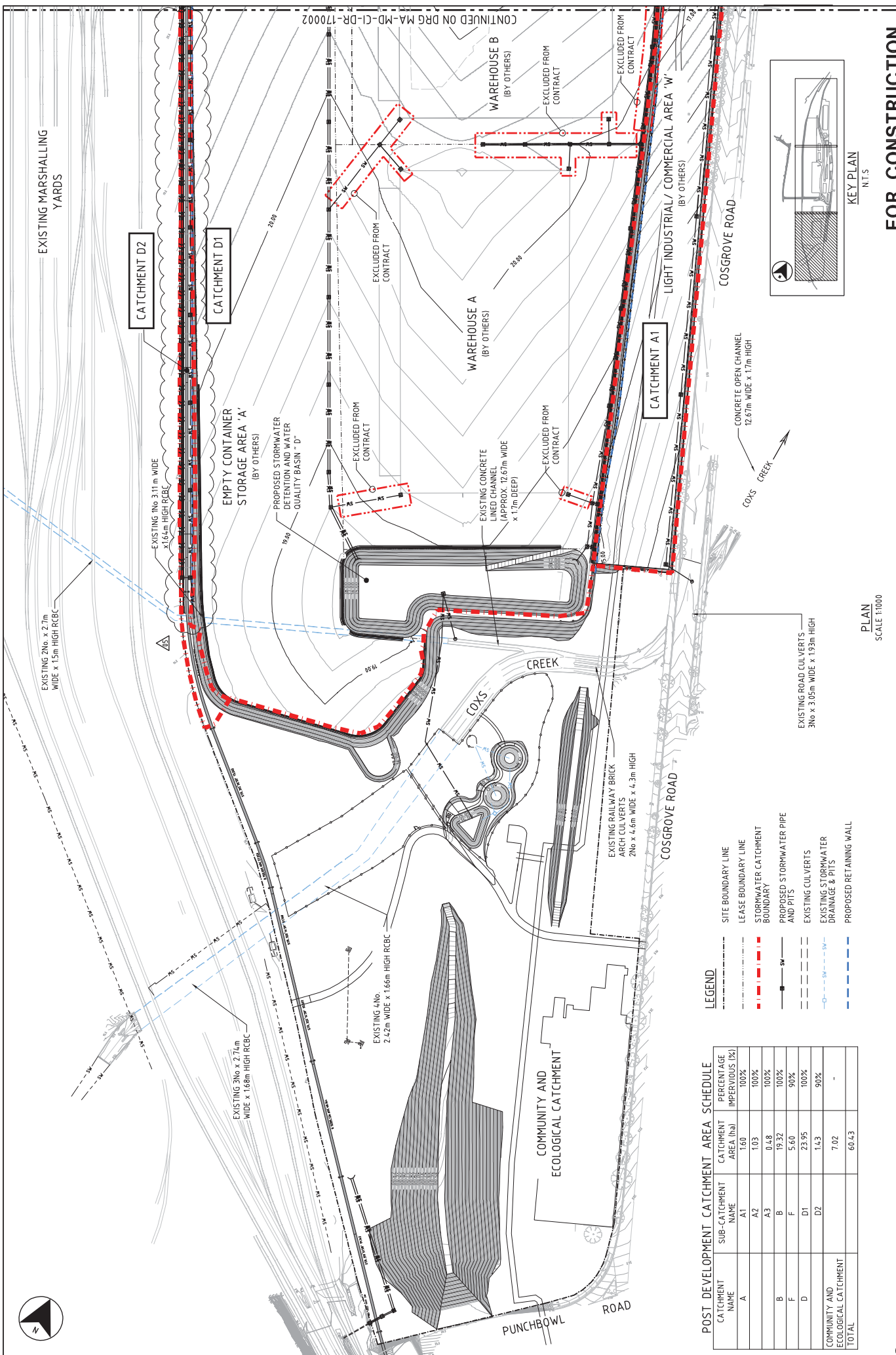
DESIGNED	SC	CHECKED	SC
DRAWN	CG	CHECKED	SC
APPROVED	SC	DATE	19/08/11



SYDNEY PORTS
 FIRST PORT, FUTURE PORT

AECOM
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 A.B.N. 20 093 846 975

ILC AT ENFIELD
 LANDSCAPE DETAILS - FROG POND
 STATUS: FOR CONSTRUCTION
 DRAWING NO: MA-MD-LU-GE-900931
 SHEET 2 OF 3
 REV: 104



FOR CONSTRUCTION
N.T.S

ILC AT ENFIELD

CIVIL WORKS PACKAGE
DRAINAGE CATCHMENT AND
OVERALL SITE PLAN

STATUS: FOR CONSTRUCTION MA-MD-CI-DR-170001
DRAWING NO: 05

AECOM

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CLIENT

FIRST PORT. FUTURE PORT

SCALE

PLAN SCALE 1:1000

1:1000 FULL SIZE A1

LEGEND

- SITE BOUNDARY LINE
- LEASE BOUNDARY LINE
- STORMWATER CATCHMENT BOUNDARY
- PROPOSED STORMWATER PIPE AND PITS
- EXISTING CULVERTS
- EXISTING STORMWATER DRAINAGE & PITS
- PROPOSED RETAINING WALL

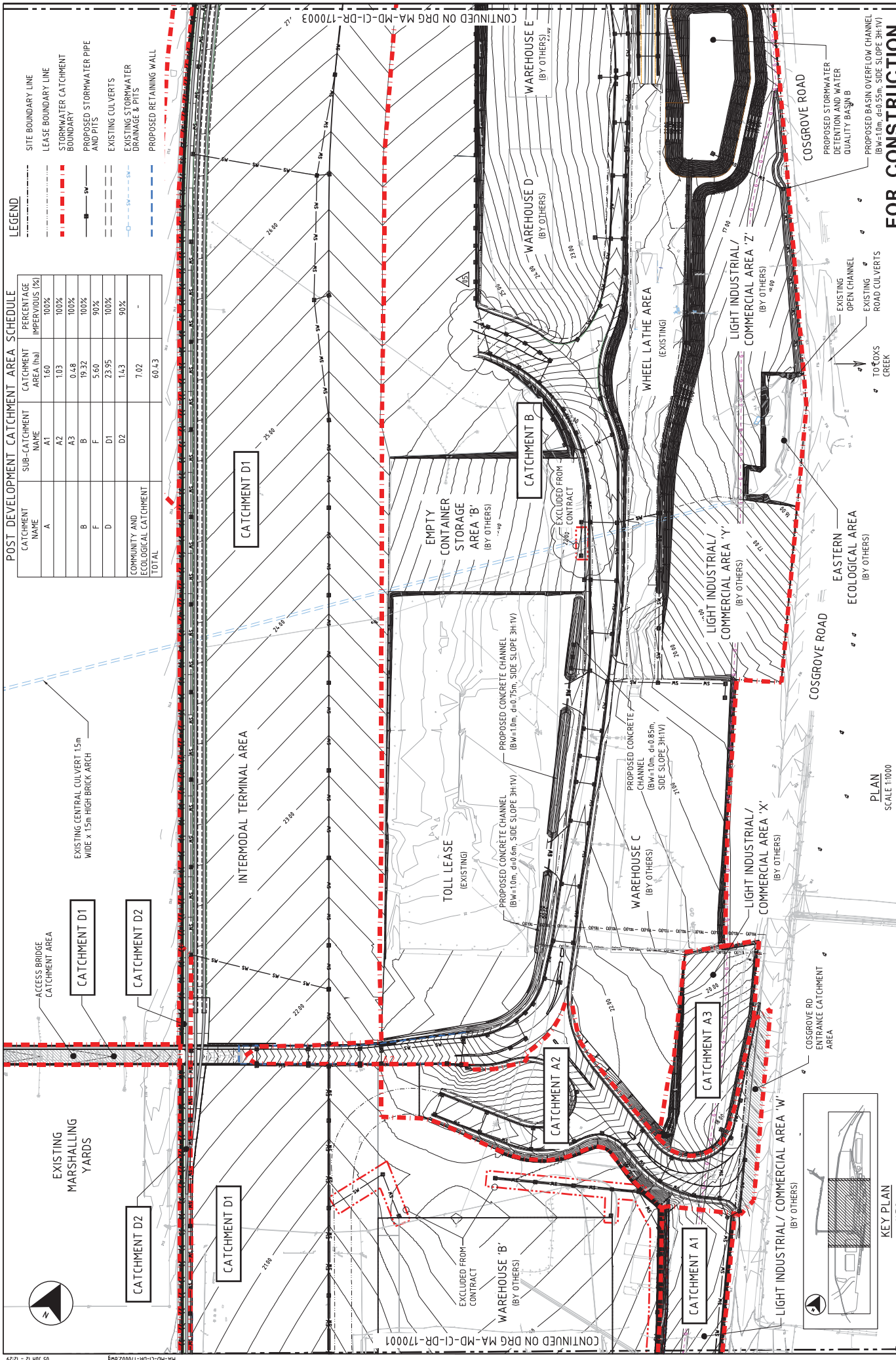
POST DEVELOPMENT CATCHMENT AREA SCHEDULE

CATCHMENT NAME	SUB-CATCHMENT NAME	CATCHMENT AREA (ha)	PERCENTAGE IMPERVIOUS (%)
A	A1	1.60	100%
	A2	1.03	100%
	A3	0.48	100%
B	B	19.32	100%
	F	5.60	90%
D	D1	23.95	100%
	D2	14.3	90%
COMMUNITY AND ECOLOGICAL CATCHMENT		7.02	-
TOTAL		60.43	

NO.	DATE	DESCRIPTION	APP'D
05	07/11/11	AMENDMENTS AS SHOWN	A.J.
04	23/08/11	ISSUED FOR CONSTRUCTION - EGD DESIGN	A.J.
03	29/07/10	ISSUED FOR CONSTRUCTION	CF
02	18/09/09	ISSUED FOR CONSTRUCTION	CF
01	20/08/09	ISSUED FOR CONSTRUCTION	CS

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LEGEND

- SITE BOUNDARY LINE
- - - LEASE BOUNDARY LINE
- STORMWATER CATCHMENT BOUNDARY
- PROPOSED STORMWATER PIPE AND PITS
- EXISTING STORMWATER DRAINAGE & PITS
- - - PROPOSED RETAINING WALL

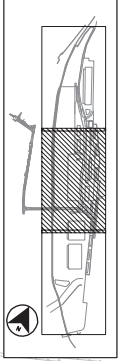
POST DEVELOPMENT CATCHMENT AREA SCHEDULE

CATCHMENT NAME	SUB-CATCHMENT NAME	CATCHMENT AREA (ha)	PERCENTAGE IMPERVIOUS (%)
A	A1	1.60	100%
A	A2	1.03	100%
A	A3	0.48	100%
B	B	19.32	100%
F	F	5.60	90%
D	D1	23.95	100%
D	D2	14.3	90%
COMMUNITY AND ECOLOGICAL CATCHMENT		7.02	-
TOTAL		60.43	

CONTINUED ON DRG MA-MD-CI-DR-170001

CONTINUED ON DRG MA-MD-CI-DR-170003

KEY PLAN



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NO.	BY	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
01	MT	20.08.09	ISSUED FOR CONSTRUCTION	
02	JT	20.08.09	ISSUED FOR CONSTRUCTION	
03	CH	23.08.11	ISSUED FOR CONSTRUCTION - E.O. DESIGN	
04	CH	07.11.11	AMENDMENTS AS SHOWN	
05	TR	05.06.12	ISSUED FOR CONSTRUCTION - E.O. DESIGN	

DATE	APPROVED	DATE	APPROVED
23.08.2011	A.J.	23.08.2011	A.J.
	M.H.		J.A.
	D.D./M.A.		R.W.

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PLAN SCALE 1:1000



SCALE 1:1000

THE SCALE OF THIS TITLE BLOCK COVERS THE DESIGN AND DRAINING OF THE PROJECT WITH THE ASSUMPTION OF AN ASSURANCE SYSTEM TO BS 9120:2004

CLINT: ILC AT ENFIELD

REVISION:



FOR CONSTRUCTION

CIVIL WORKS PACKAGE
DRAINAGE CATCHMENT AND
OVERALL SITE PLAN

DRAWING NO:
FOR CONSTRUCTION MA-MD-CI-DR-170002

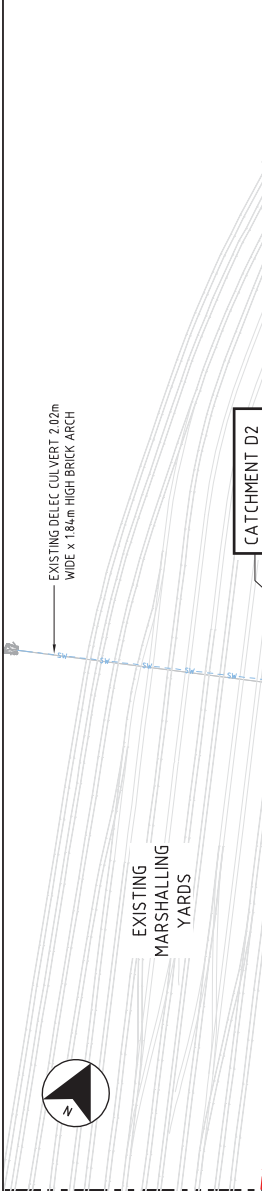
SHEET 2
NO.

LEGEND

- - - - - SITE BOUNDARY LINE
- - - - - LEASE BOUNDARY LINE
- - - - - STORMWATER CATCHMENT BOUNDARY
- - - - - PROPOSED STORMWATER PIPE AND PITS
- - - - - EXISTING CULVERTS
- - - - - EXISTING STORMWATER DRAINAGE & PITS
- - - - - PROPOSED RETAINING WALL

POST DEVELOPMENT CATCHMENT AREA SCHEDULE

CATCHMENT NAME	SUB-CATCHMENT NAME	CATCHMENT AREA (ha)	PERCENTAGE IMPERVIOUS (%)
A	A1	1.60	100%
B	A2	1.03	100%
B	A3	0.48	100%
B	B	19.32	100%
F	F	5.60	90%
D	D1	23.95	100%
D	D2	1.43	90%
COMMUNITY AND ECOLOGICAL CATCHMENT TOTAL		7.02	-
		60.43	



EXISTING DELEC CULVERT 2.02m WIDE x 18.4m HIGH BRICK ARCH

EXISTING MARSHALLING YARDS

EXISTING RCBC

EXISTING ROAD CULVERTS

COSGROVE ROAD

LOCALISED EARTHWORK TO REMOVE LOW POINT

DISCHARGE CHANNEL INTO PROPOSED DETENTION AND WATER QUALITY BASIN

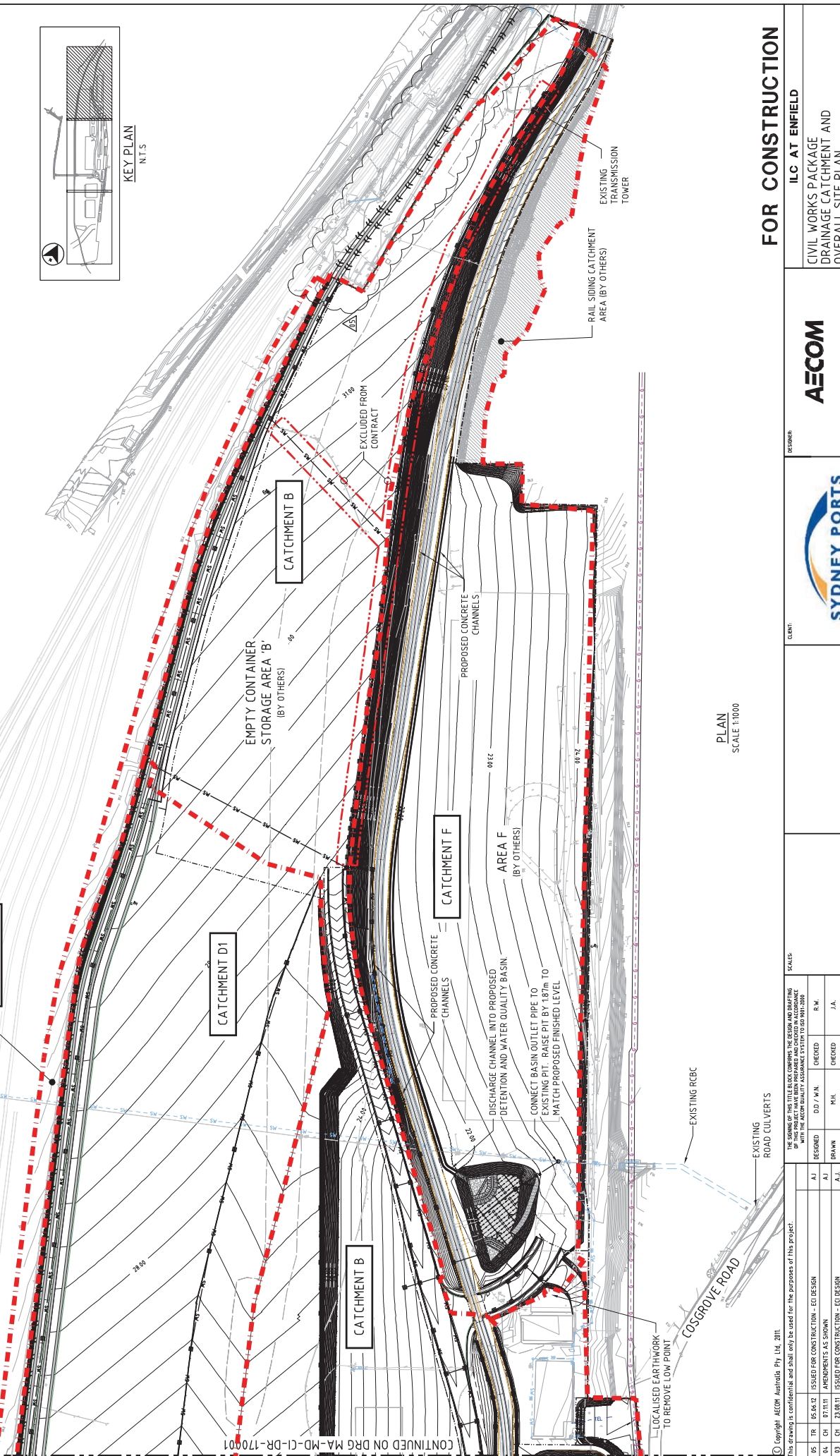
CONNECT BASIN OUTLET PIPE TO EXISTING PIT. RAISE PIT BY 187m TO MATCH PROPOSED FINISHED LEVEL

EXCLUDED FROM CONTRACT

RAIL SIDING CATCHMENT AREA (BY OTHERS)

EXISTING TRANSMISSION TOWER

KEY PLAN N.T.S.



EMPTY CONTAINER STORAGE AREA 'B' (BY OTHERS)

CATCHMENT B

CATCHMENT D1

CATCHMENT D2

CATCHMENT F

AREA F (BY OTHERS)

PROPOSED CONCRETE CHANNELS

PROPOSED CONCRETE CHANNELS

SCALE 1:1000

PLAN

SCALE 1:1000

EXISTING TRANSMISSION TOWER

RAIL SIDING CATCHMENT AREA (BY OTHERS)

EXISTING TRANSMISSION TOWER

KEY PLAN N.T.S.

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NO.	BY	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION
01	MT	20.08.09	ISSUED FOR CONSTRUCTION	APPD
02	TT	20.08.09	ISSUED FOR CONSTRUCTION	CS
03	CH	23.08.11	ISSUED FOR CONSTRUCTION - EGD DESIGN	A.J.
04	CH	07.11.11	AMENDMENTS AS SHOWN	A.J.
05	TR	05.06.12	ISSUED FOR CONSTRUCTION - EGD DESIGN	A.J.

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SCALE: 1:1000

FULL SIZE A1

10 0 10 20 30 40 50m