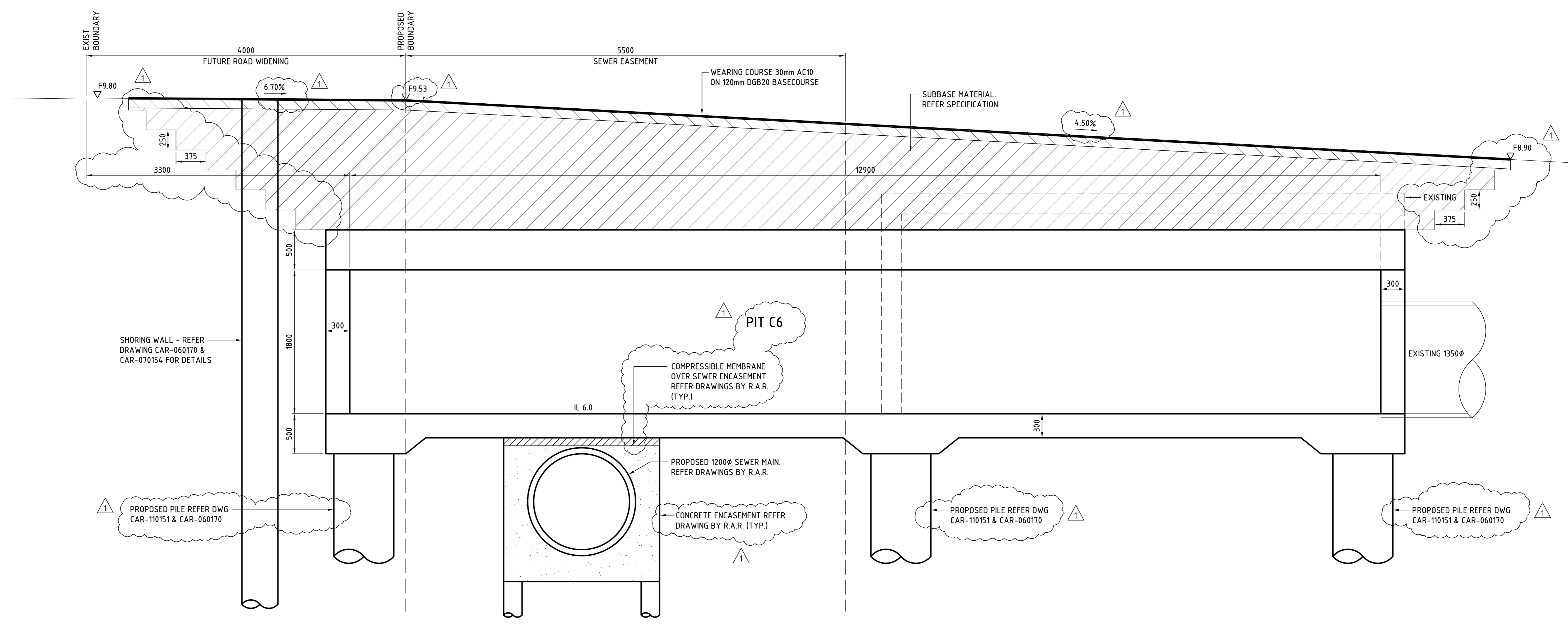
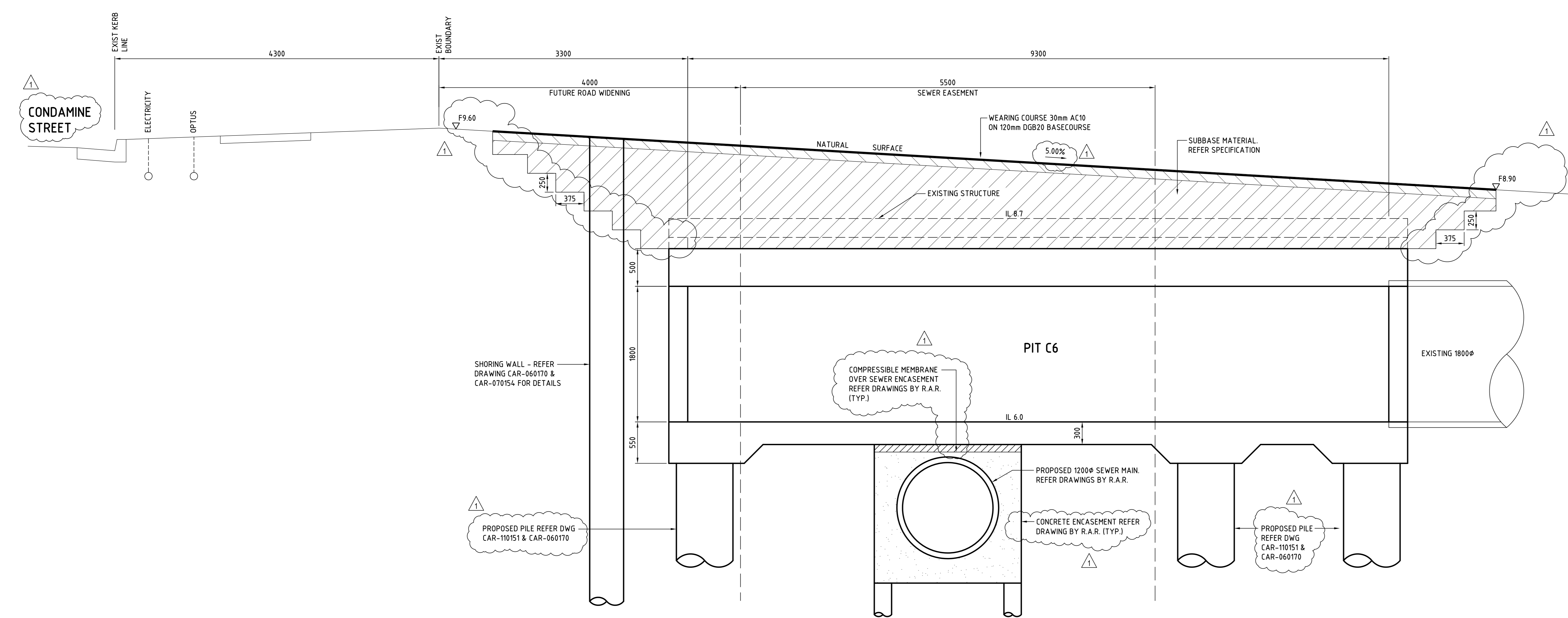


THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD20140285
 WARRINGAH COUNCIL

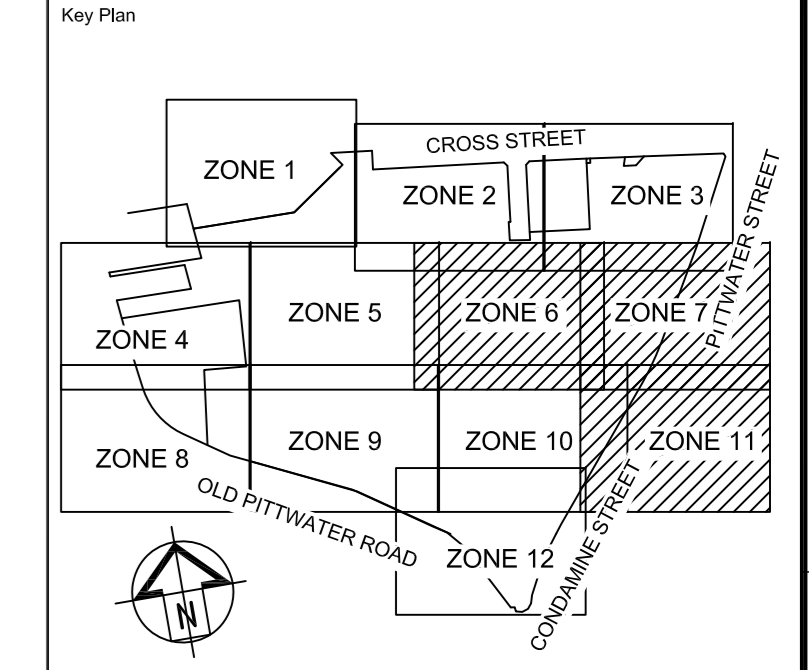


SECTION 5
 SCALE 1:25
 110126



SECTION 6
 SCALE 1:25
 110126

Rev	Date	By	CHK	Description



General Note:
 ALL DIMENSIONS TO BE CHECKED ON SITE. VERIFY DIMENSIONS ONLY TO BE USED. REFER TO ALL LOCAL GOVERNMENT REGULATIONS, STANDARDS & SPECIFICATIONS. REFER TO THE DRAWING FOR ALL LOCAL GOVERNMENT REGULATIONS, STANDARDS & SPECIFICATIONS. REFER TO THE DRAWING FOR ALL LOCAL GOVERNMENT REGULATIONS, STANDARDS & SPECIFICATIONS.

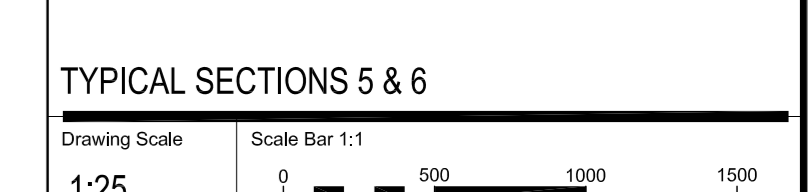
Cardno
 Shaping the Future
 ABN: 95 891 945 898
 Level 5, The Forum, 203 Pacific Highway
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 Phone: (02) 9556 7788 Fax: (02) 9556 8500
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 CARDNO JOB: 89914004

AMP CAPITAL
 Level 16, 50 Bridge Street, SYDNEY, NSW, 2000
 Phone: (02) 92572200

SCENTRE GROUP
 Owner and Operator: **Westfield**
 in Australia and New Zealand

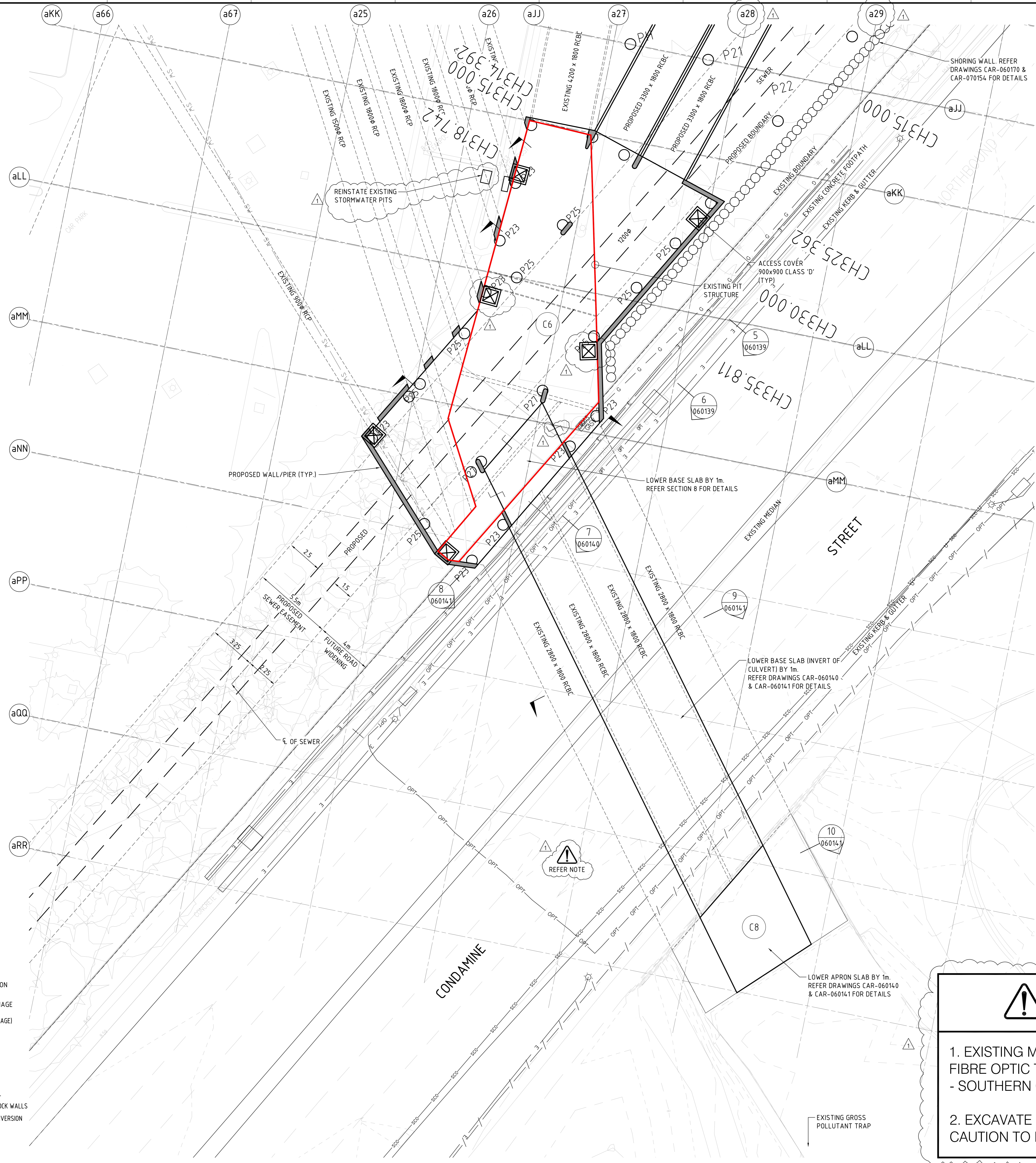
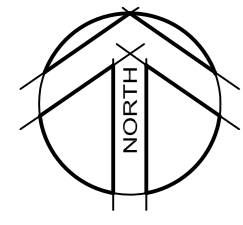
Westfield
WARRINGAH
 Scenre Design & Construction Pty Limited
 85 Castlereagh Street, Sydney NSW 2011
 Phone: (02) 9556 7000 Fax: (02) 9628 8500
 GPO Box 4604 Sydney NSW 2001

THE WARRINGAH STORMWATER AUGMENTATION CULVERT STAGE 2



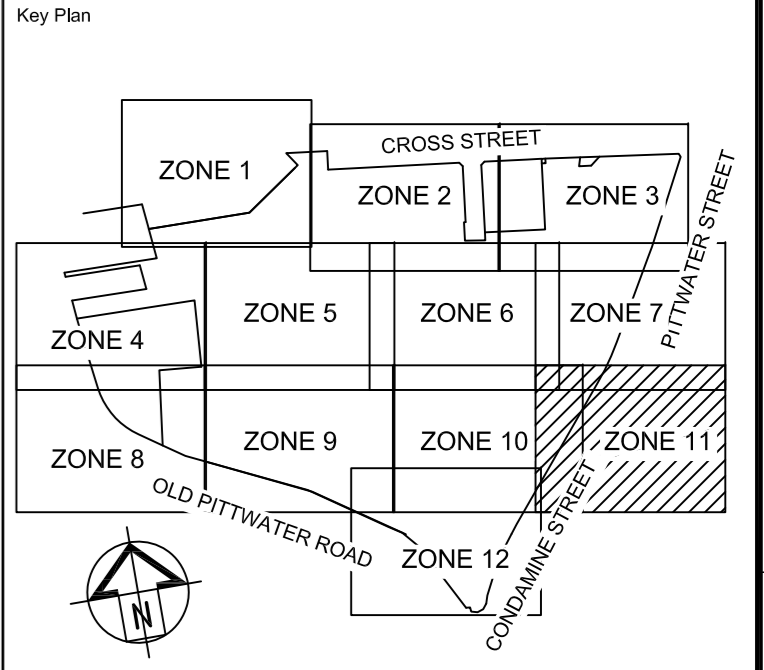
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DH	CAR-060139(1).DWG	31/10/2014 3:24pm
Project No.	Drawing No.	Revision
D11753	CAR-060139	1

NOTES:
 REFER DWG CAR-110151 FOR STRUCTURAL DETAILS



THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014-0285
 WARRINGAH COUNCIL

Rev	Date	By	Check	Description



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 CARDNO JOB: 89914004

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SCENTRE GROUP
 Owner and Operator: Westfield in Australia and New Zealand

Westfield
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 Phone: (02) 9558 7000 Fax: (02) 9528 8500
 GPO Box 4604 Sydney NSW 2001

- NOTES:
- REFER TO GEOTECHNICAL REPORT PROPOSED CULVERT MODIFICATION CONDOMINE STREET BY DOUGLAS PARTNERS DATED FEB 2014.
 - REFER TO DRAWING CAR-110151 FOR STRUCTURAL DETAILS.
 - REFER TO DRAWINGS CAR-110130 TO 110139 FOR SUGGESTED CONSTRUCTION STAGING SEQUENCING.

CAUTION DANGER

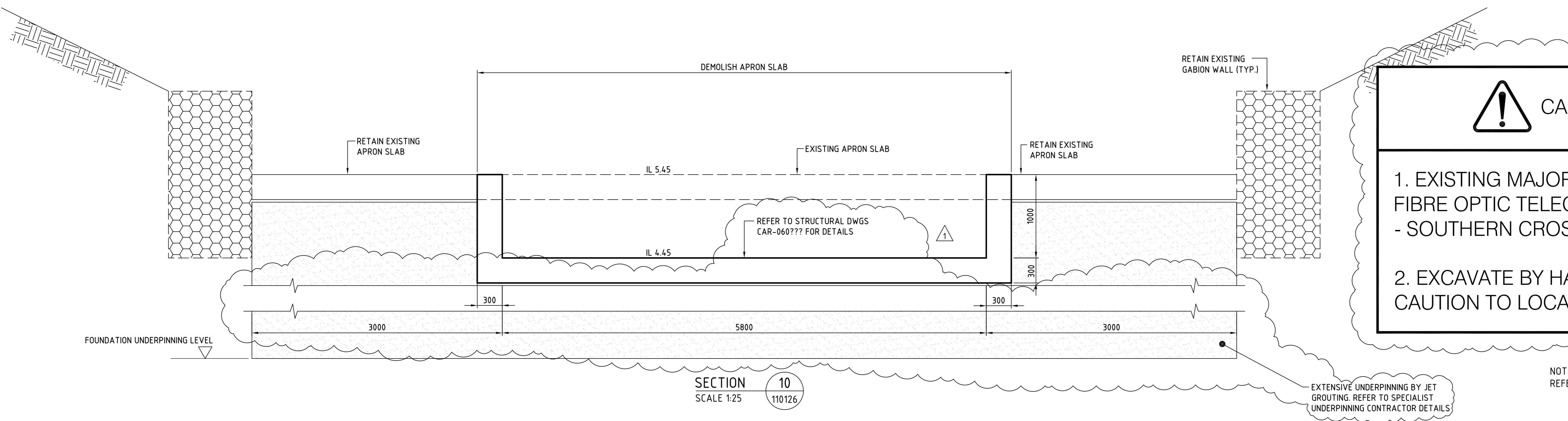
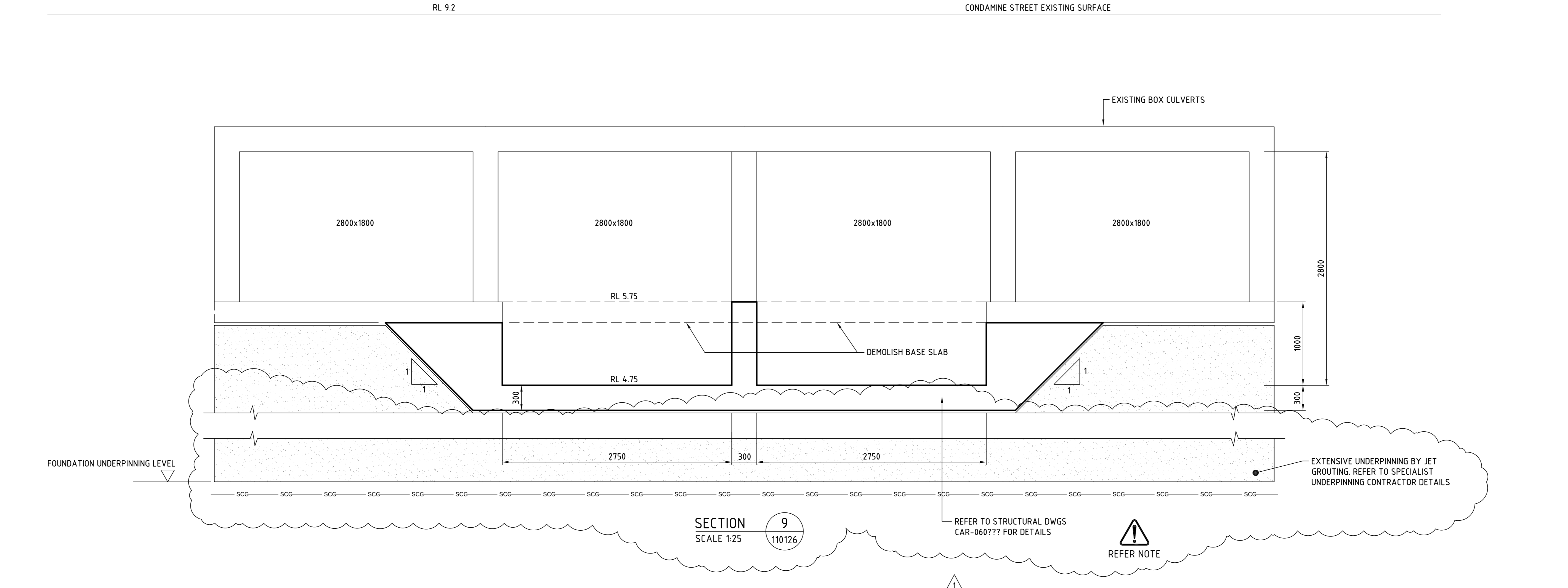
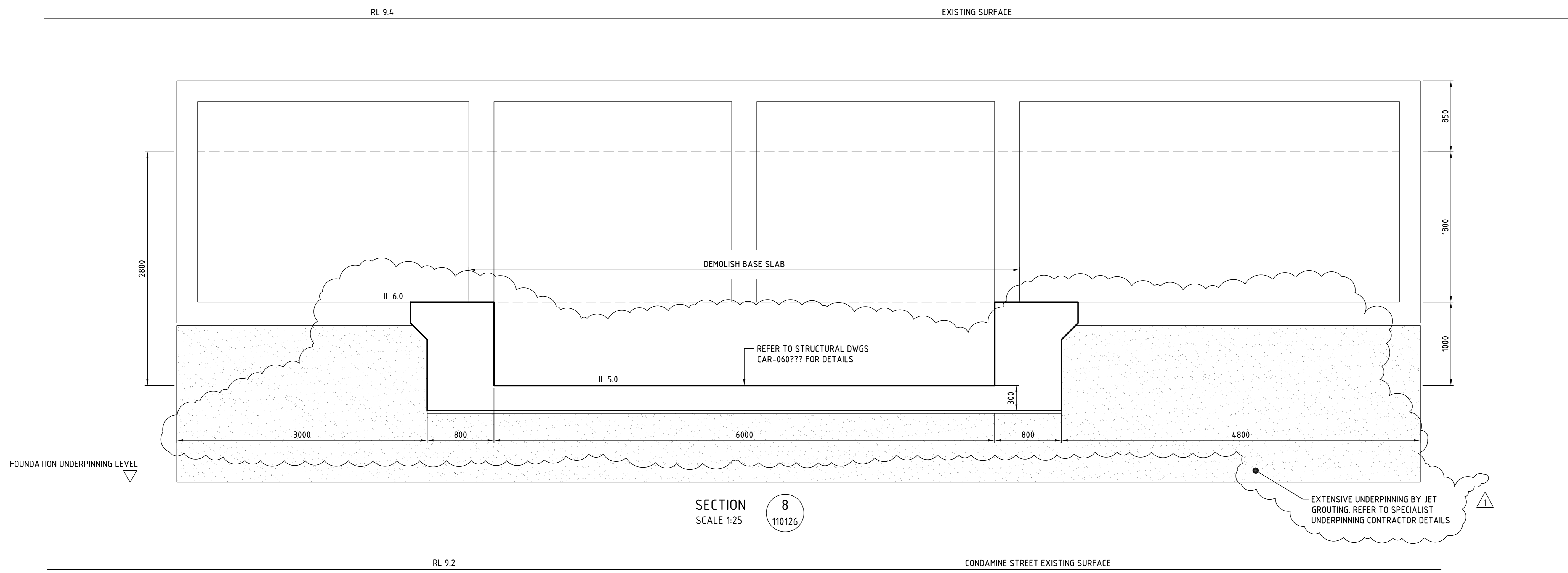
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2. EXCAVATE BY HAND WITH EXTREME CAUTION TO LOCATE PRIOR TO ANY WORKS

LEGEND

EXISTING	PROPOSED
--- BOX CULVERT	--- BOX CULVERT
--- STORMWATER DRAINAGE PIPE	--- STORMWATER DRAINAGE PIPE
--- BOUNDARY	--- SEWER
--- ELECTRICITY (HIGH VOLTAGE)	--- LONGITUDINAL SECTION REFERENCE
--- ELECTRICITY (LOW VOLTAGE)	--- ELECTRICITY (HIGH VOLTAGE)
--- GAS	--- ELECTRICITY PIT
--- WATER	--- SUBSOIL DRAIN
--- OPTIC FIBER	--- SHORING WALL
--- SEWER	--- PROPOSED CONCRETE WALL
--- STORMWATER DRAINAGE	--- TEMPORARY DIVERSION BLOCK WALLS
--- SOUTHERN CROSS CONDUIT	--- DEMOLISHED TEMPORARY DIVERSION BLOCK WALLS
--- TELSTRA	--- EXTENT OF WORKS
--- FIRE SERVICES	
--- UNKNOWN SERVICES	
--- EXISTING SUBSOIL DRAIN	
--- FENCE	

DETAIL PIT C6
 Drawing Scale: 1:100
 Scale Bar 1:1
 Drawn By: LDB
 CAD Filename: CAR-1101261.DWG
 Project No: CAR-110126
 Drawing No: 1
 Date: 31/10/2014 4:09pm



CAUTION DANGER

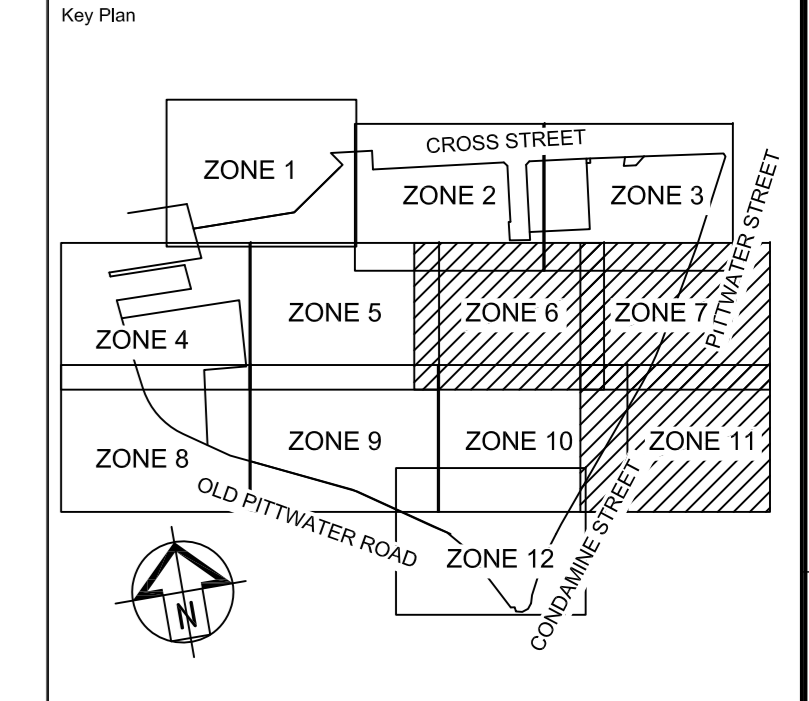
1. EXISTING MAJOR UNDERGROUND OPTUS FIBRE OPTIC TELECOMMUNICATIONS CABLE - SOUTHERN CROSS CABLES.

2. EXCAVATE BY HAND WITH EXTREME CAUTION TO LOCATE PRIOR TO ANY WORKS

NOTE: REFER DWG CAR-110151 FOR STRUCTURAL DETAILS

THIS PLAN TO BE READ IN CONJUNCTION WITH MOD2014/0285 WARRINGAH COUNCIL

Rev	Date	By	CHK	Description



General Note: ALL DIMENSIONS TO BE CHECKED ON SITE. VERIFY DIMENSIONS ONLY TO BE USED. REFER TO ALL LOCAL GOVERNMENT REGULATIONS, STANDARDS & SPECIFICATIONS. CONSULT WITH ALL APPLICABLE AUTHORITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS AND APPROVALS PRIOR TO COMMENCING WORK.

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CARDNO JOB: **89914004**

AMP CAPITAL

Level 16, 50 Bridge Street, SYDNEY, NSW, 2000
Phone: (02) 92572200

SCENTRE GROUP
Owner and Operator: **Westfield** in Australia and New Zealand

Westfield WARRINGAH

Scenitre Design & Construction Pty Limited
85 Castlereagh Street, Sydney NSW 2011
Phone: (02) 9358 7000 Fax: (02) 9628 8500
GPO Box 4604 Sydney NSW 2001

Title: **WARRINGAH STORMWATER AUGMENTATION CULVERT STAGE 2**

TYPICAL SECTIONS 8, 9 & 10

Drawing Scale: 1:25 Scale Bar 1:1

Drawn By: CAD Filename: CAR-0601411.DWG Plot Date: 31/10/2014 3:29pm

Project No: D11753 Drawing No: CAR-060141 Revision: 1

DATE PLOTTED: 7 November 2014 10:34 AM BY: LYLAC CHAU

XREF's: X:Services; X:Architect; X:Drainage; X:Survey; X:GRP-A1-SHT; X:SYD-A1-Logo
 CAD FILE: \\cardno.com\gib\j\A\J\W\Directory\Structure\Projects\699\FY13\MA491312_WARRINGAH MALL FLOODING AND DRAINAGE\01_Package_1_Data\W4548-435\4.dwg



LEGEND

- BOUNDARY
- █ PROPOSED CULVERTS
- ▨ BUILDING FOOTPRINT
- ▨ BUILDING TO BE DEMOLISHED

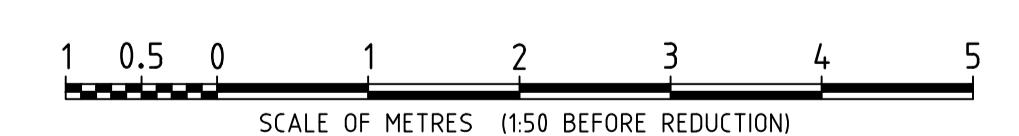
SERVICES

- E --- ELECTRICITY
- HV --- HIGH VOLTAGE ELECTRICITY
- G --- GAS
- T --- OPTICAL FIBRE
- O --- OPTUS
- S --- SEWER
- TELSTRA
- W --- WATER

NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL

PLAN
SCALE 1:100



Rev	Date	Description	Drawn	Appr.
4	7/11/2014	BING LEE, HCF & GODFATHERS NOTE ADDED	LLC	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THOUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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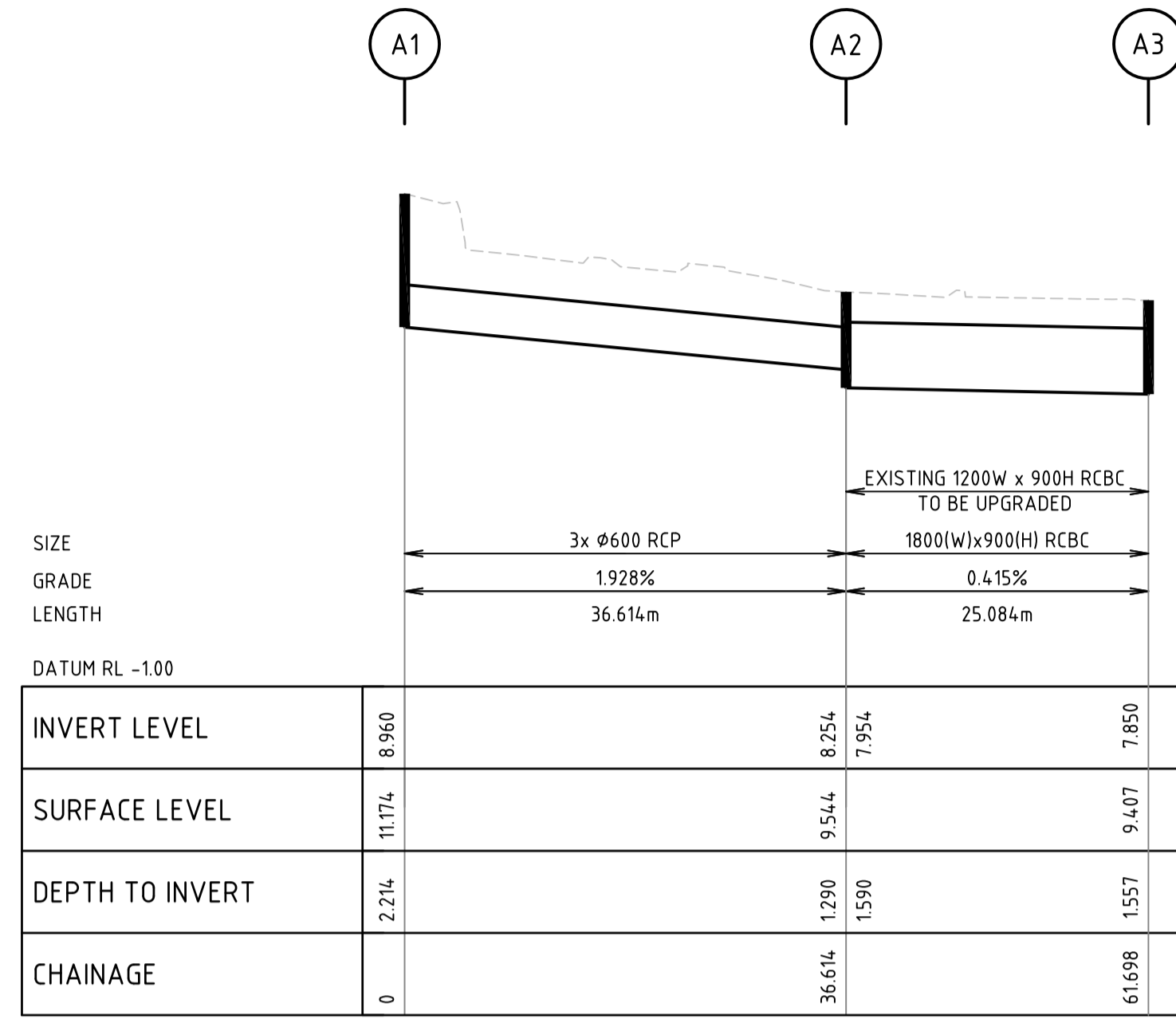
Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 BUILDING DEMOLITION PLAN

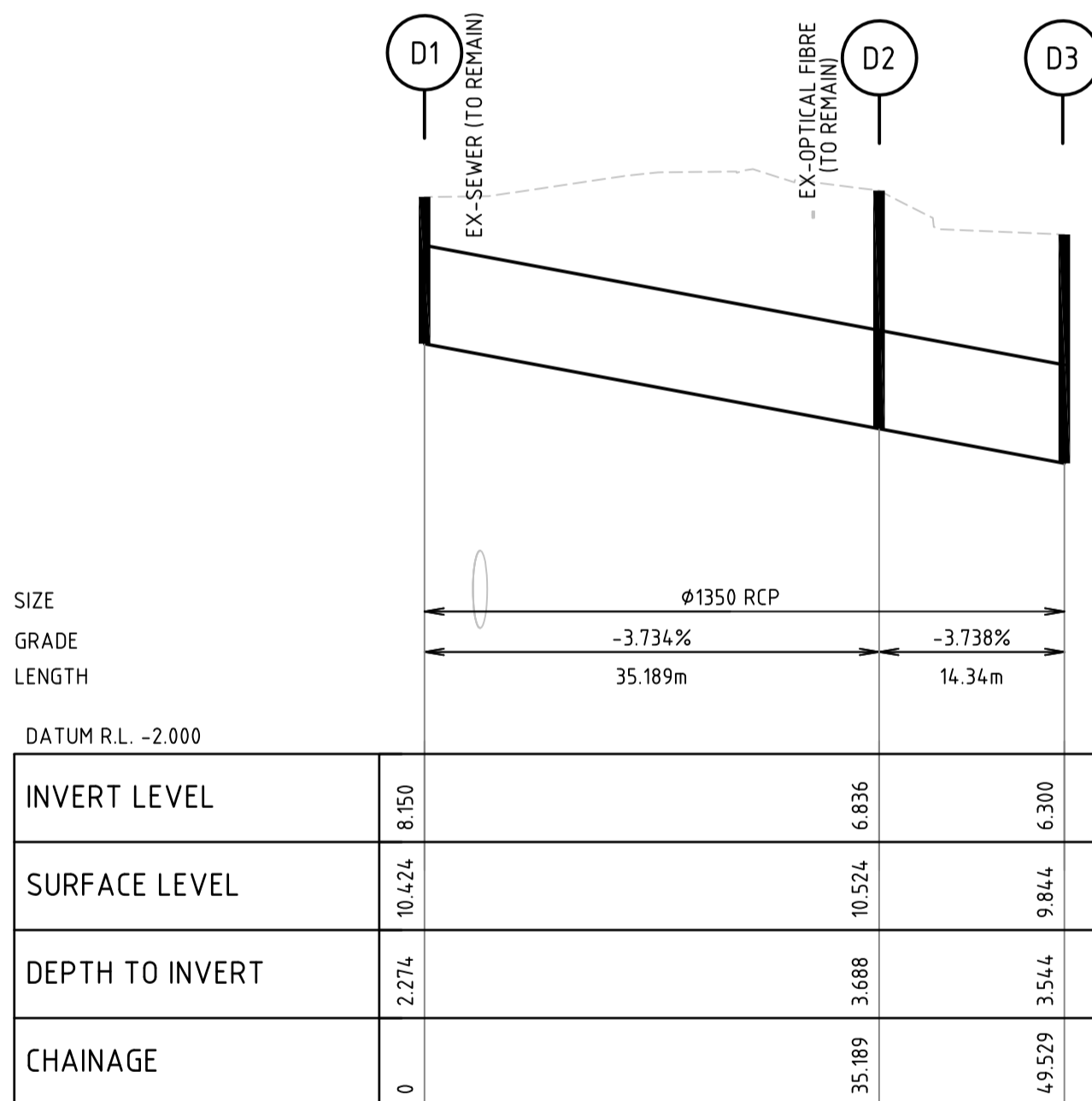
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Date	Datum	Scale	Size
18/11/2013	AHD	1:50	A1
Drawing Number: W4548-435			Revision: 4

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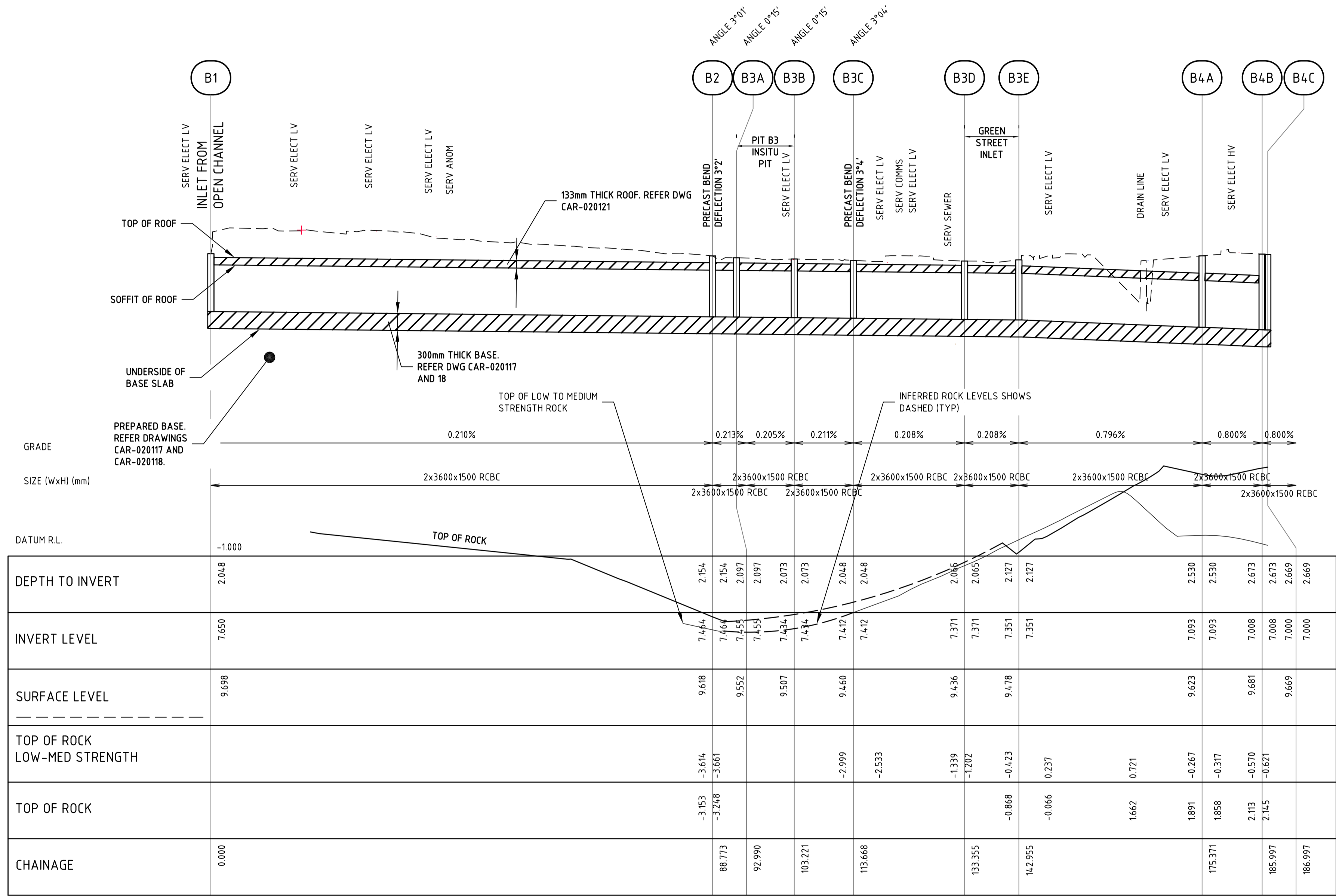
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 MOD2014/0285
 WARRINGAH COUNCIL



LONGITUDINAL SECTION PIT A1-A3
 SCALE 1:500(H) 1:100(V)

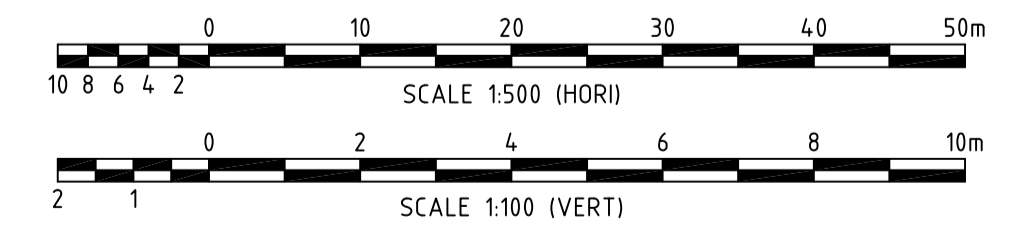


LONGITUDINAL SECTION PIT D1-D3
 SCALE 1:500(H) 1:100(V)



LONGITUDINAL SECTION PIT B1-B4
 SCALE 1:500(H) 1:100(V)

NOTE: LOCATION AND LEVELS OF ALL SERVICES IS INDICATIVE ONLY. SERVICES TO BE LOCATED AND POTHOLED PRIOR TO CONSTRUCTION



Rev	Date	Description	Drawn	Appr.
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



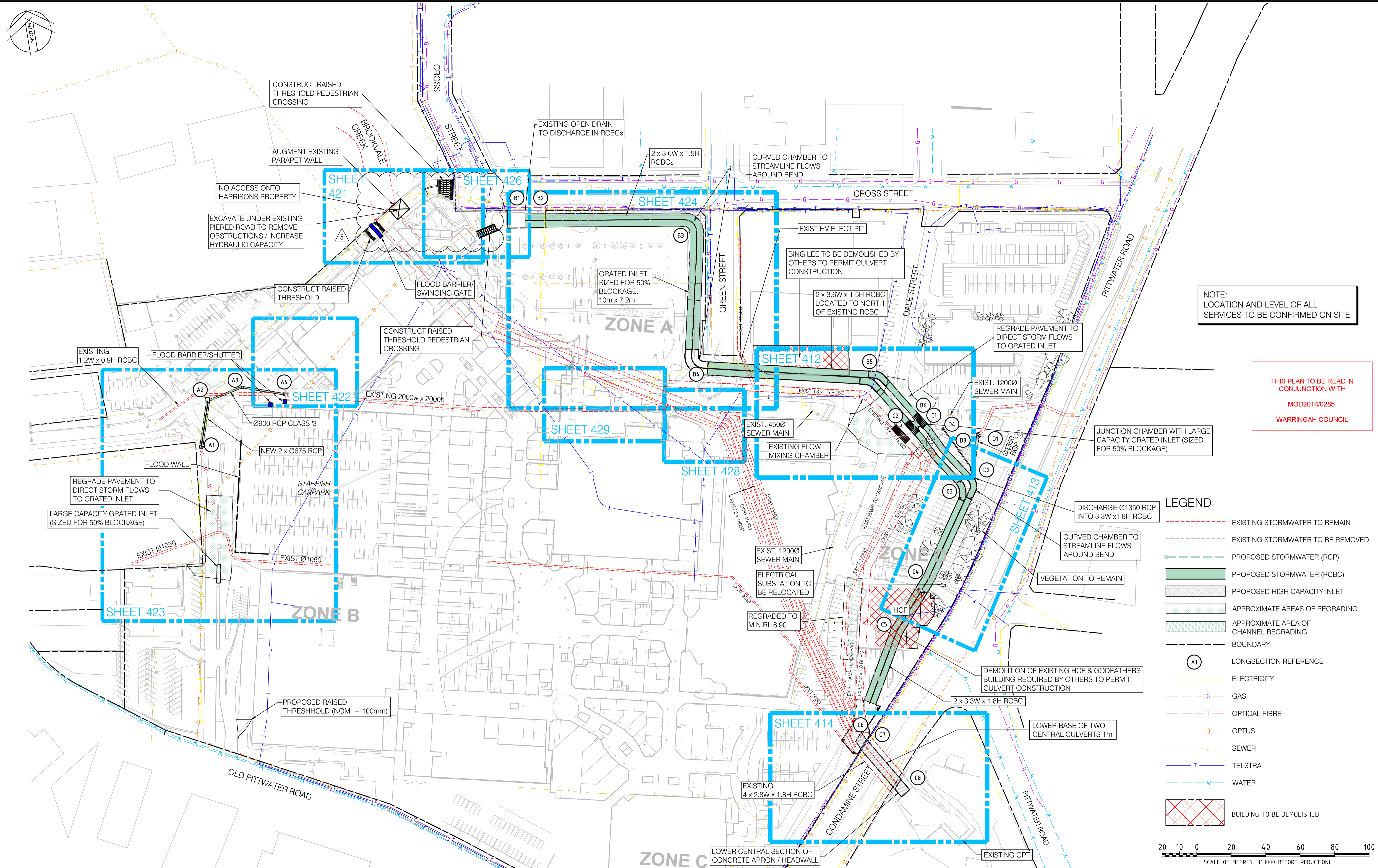
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Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

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 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 STORMWATER LONGSECTIONS - SHEET 1 of 2

Status	PRELIMINARY		
Date	Datum	Scale	Size
18/11/2013	AHD	AS SHOWN	A1
Drawing Number	W4548-430		Revision
			3

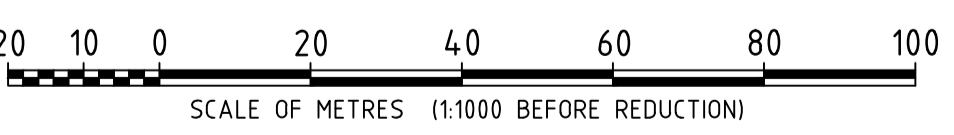


NOTE: LOCATION AND LEVEL OF ALL SERVICES TO BE CONFIRMED ON SITE

THIS PLAN TO BE READ IN CONJUNCTION WITH MOD2014/0285 WARRINGAH COUNCIL

LEGEND

- EXISTING STORMWATER TO REMAIN
- EXISTING STORMWATER TO BE REMOVED
- PROPOSED STORMWATER (RCP)
- PROPOSED STORMWATER (RCBC)
- PROPOSED HIGH CAPACITY INLET
- APPROXIMATE AREAS OF REGRAIDING
- APPROXIMATE AREA OF CHANNEL REGRAIDING
- BOUNDARY
- A1 LONGSECTION REFERENCE
- ELECTRICITY
- GAS
- OPTICAL FIBRE
- OPTUS
- SEWER
- TELSTRA
- WATER
- BUILDING TO BE DEMOLISHED



XREF's: X:Drainage; X:Survey; X:Architect; X:GRP-AT-SHT; X:SYD-A1-Logo
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Rev	Date	Description	Drawn	Appr.
5	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
4	7/11/2014	BING LEE, HCF & GODFATHERS NOTE ADDED	LLC	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



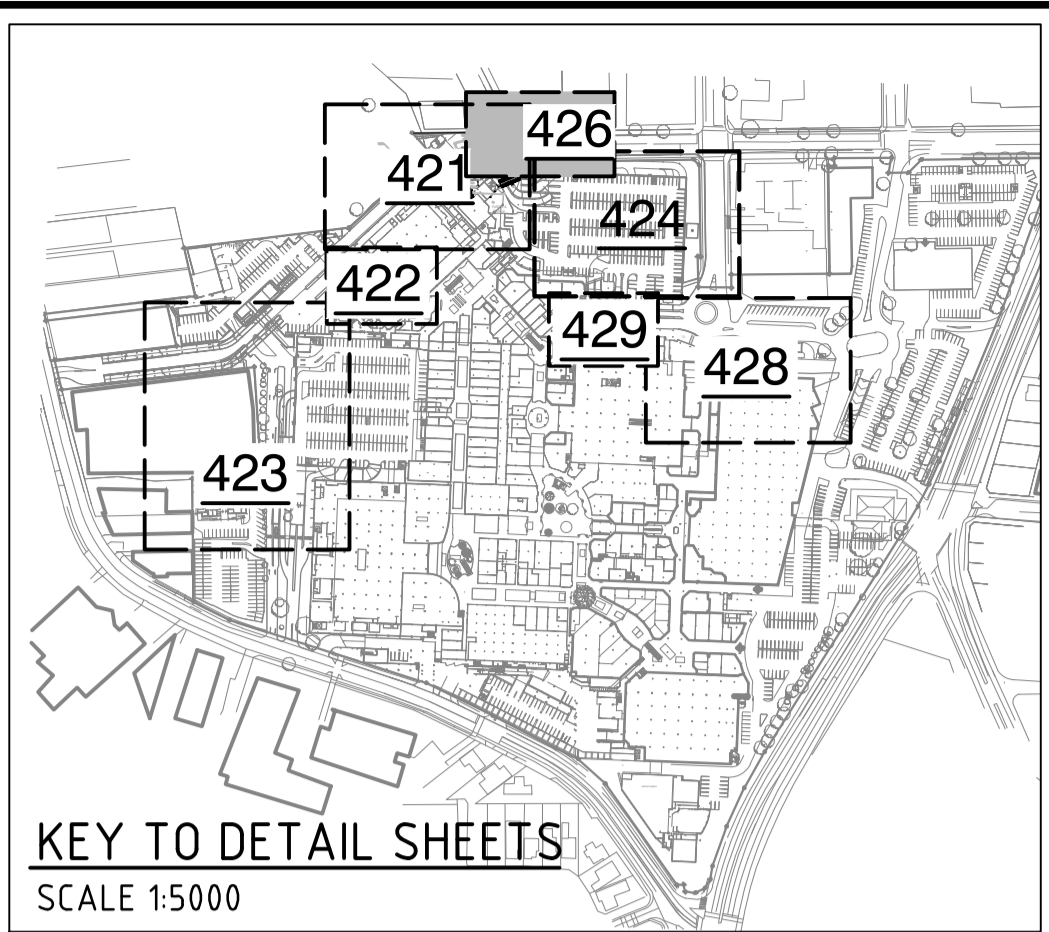
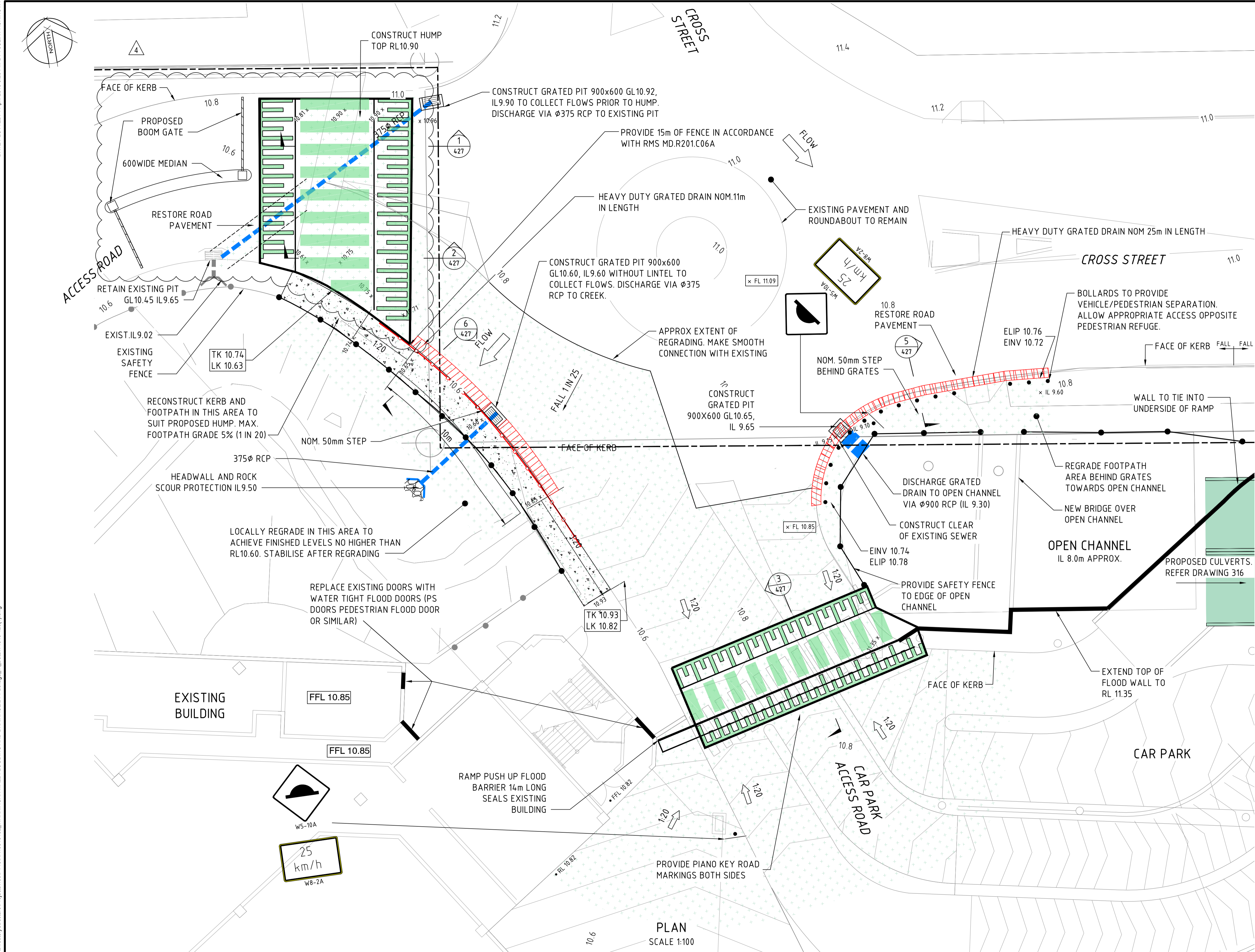
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Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

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 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 GENERAL ARRANGEMENT PLAN
 MASTERPLAN

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	1:1000	A1
Drawing Number: W4548-401			Revision: 5



KEY TO DETAIL SHEETS
SCALE 1:5000

LEGEND

EXISTING

- BOUNDARY
- x E10.87 EXISTING LEVEL
- ELIP 10.76 EXISTING KERB LIP LEVEL
- ELIP 10.76 EXISTING KERB INVERT LEVEL
- [Symbol] EXISTING STORMWATER PIT
- [Symbol] EXISTING LOCAL DRAINAGE

PROPOSED

- x 11.00 PROPOSED LEVEL
- x FL 11.09 100 YEAR ARI FLOOD LEVEL (m AHD)
- [Symbol] PROPOSED GRATED INLET
- [Symbol] PROPOSED STORMWATER PIT AND PIPE
- [Symbol] PROPOSED SAFETY FENCE
- [Symbol] PROPOSED PEDESTRIAN FENCE
- [Symbol] PROPOSED CONCRETE FOOTPATH
- TK 10.61 LK 10.55 PROPOSED TOP OF KERB LEVEL
- PROPOSED LIP OF KERB LEVEL

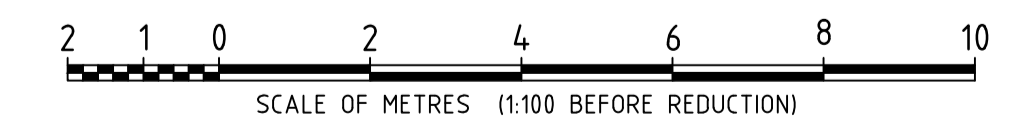
SERVICES

- E ELECTRICITY
- G GAS
- T OPTICAL FIBRE
- O OPTUS
- S SEWER
- T TELSTRA
- W WATER

NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL

NOTE:
 WITH THE EXCEPTION OF THE WORKS SHOWN ON THIS PLAN, THE EXISTING ROAD PAVEMENT AND ROUNDABOUT IS TO BE RETAINED. PAVEMENT REINSTATEMENT, UNO IS TO MATCH EXISTING LEVELS



Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA

Westfield

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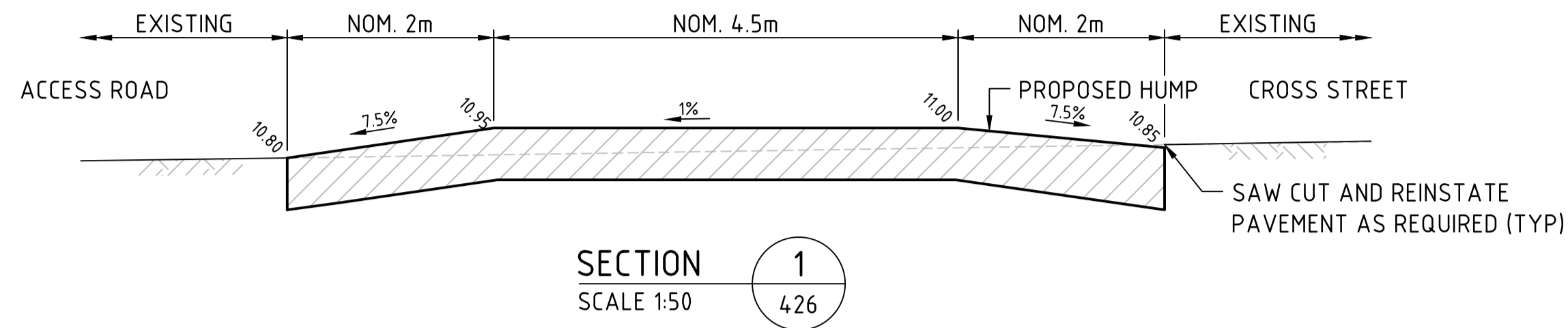
ABN: 95 001 145 035
 Level 9, The Forum, 203 Pacific Highway
 St Leonards NSW Australia 2065
 Phone (442) 94 96 7700 Fax (442) 94 99 5170
 Email: Sydney@cardno.com.au Web: www.cardno.com.au

Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

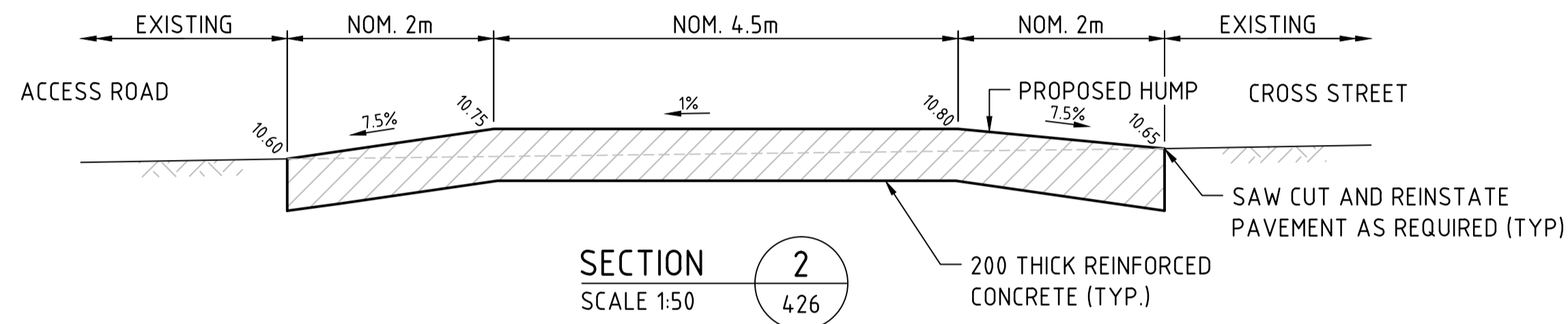
Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS

DETAIL ARRANGEMENT PLAN
 CROSS STREET ROUNDABOUT PLAN

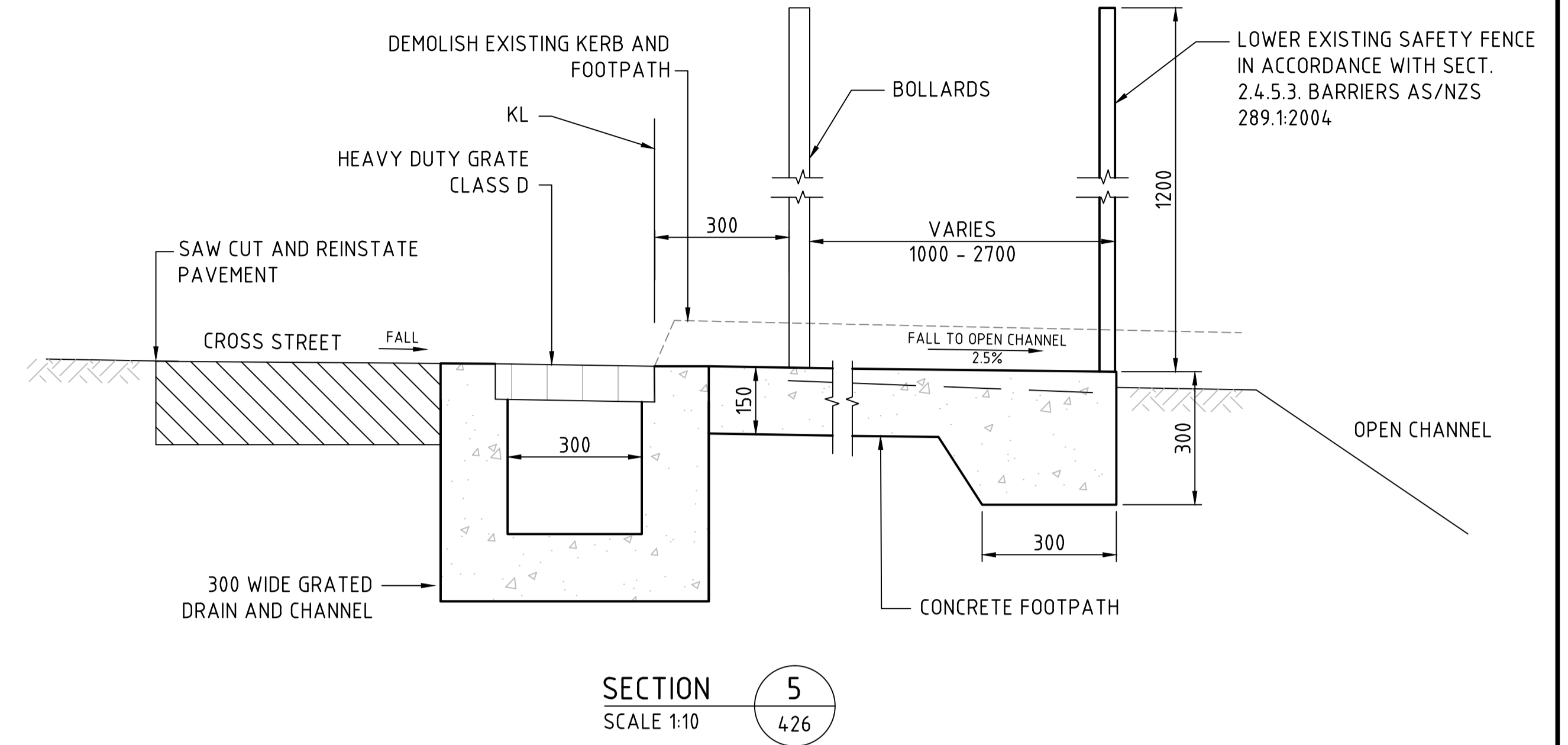
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Date	Datum	Scale	Size
18/11/2013	AHD	1:100	A1
Drawing Number	Revision		
W4548-426	4		



SECTION 1
SCALE 1:50
426

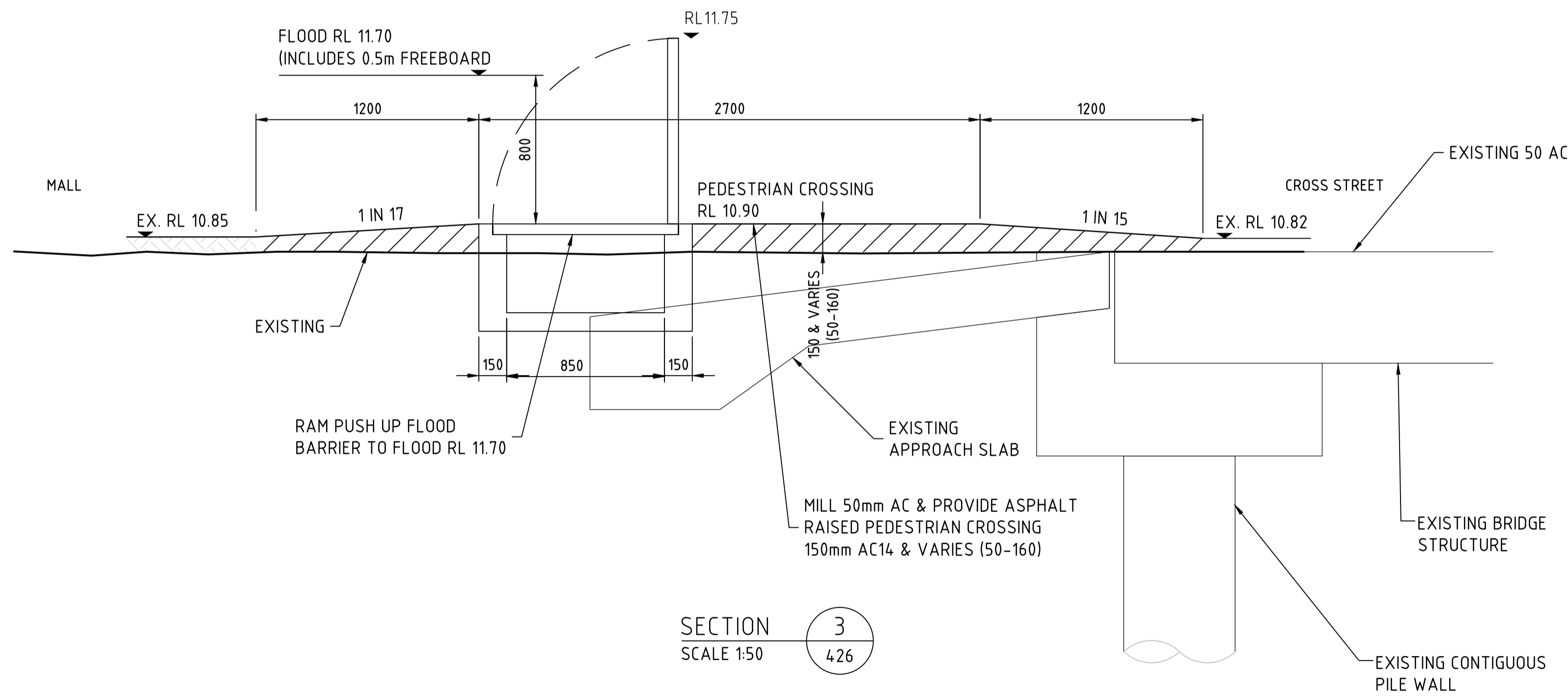


SECTION 2
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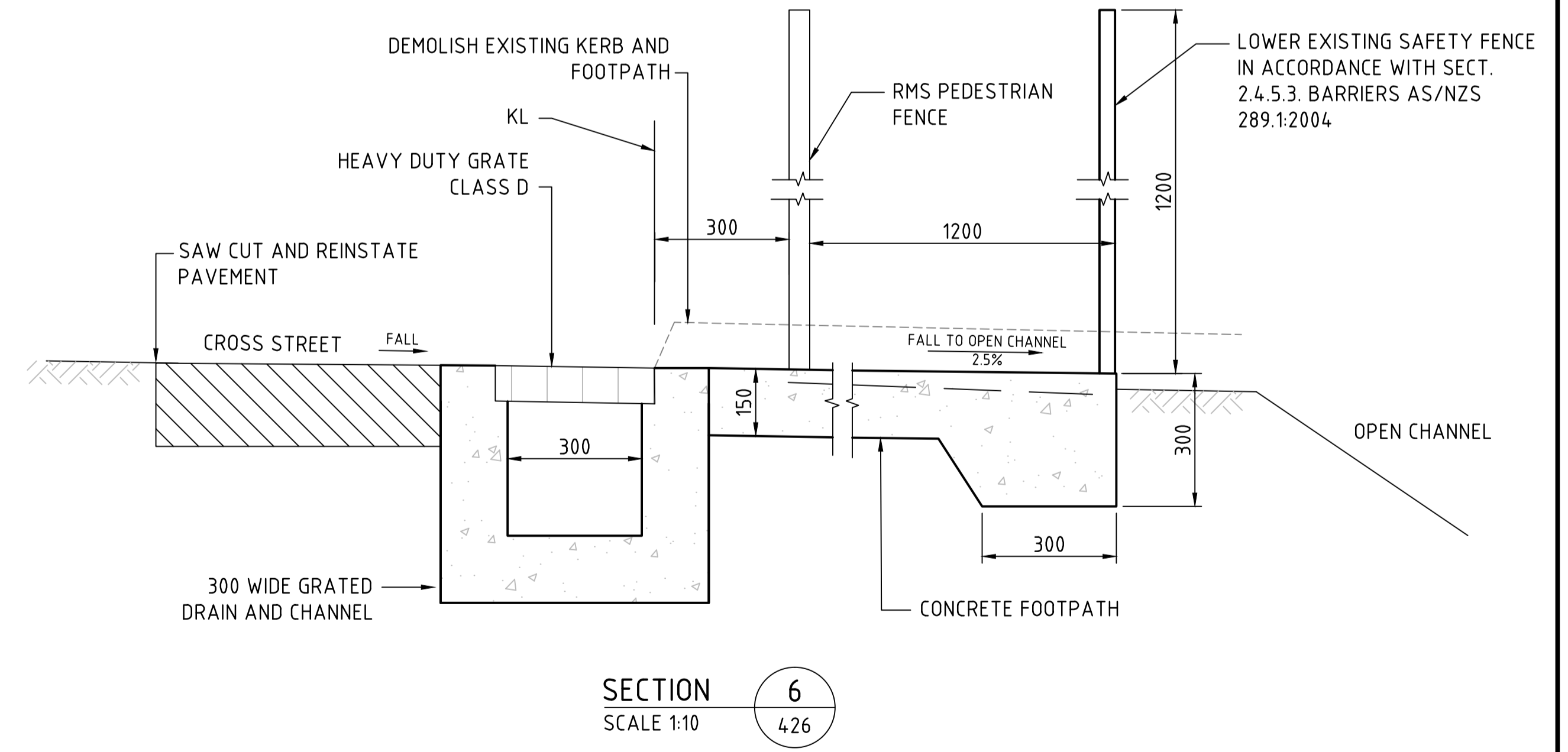


SECTION 5
SCALE 1:10
426

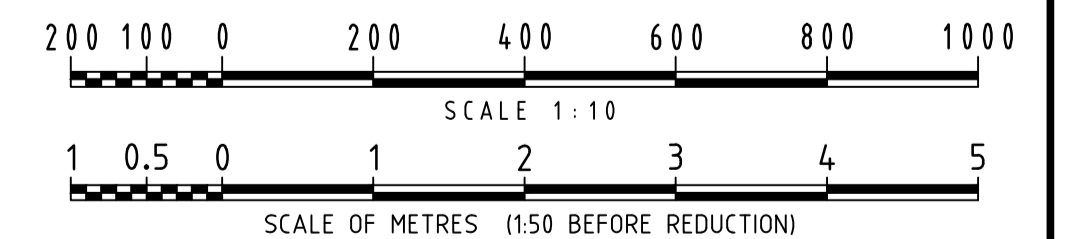
THIS PLAN TO BE READ IN CONJUNCTION WITH
MOD2014/0285
WARRINGAH COUNCIL



SECTION 3
SCALE 1:50
426



SECTION 6
SCALE 1:10
426



Rev	Date	Description	Drawn	Appr.
4	31/3/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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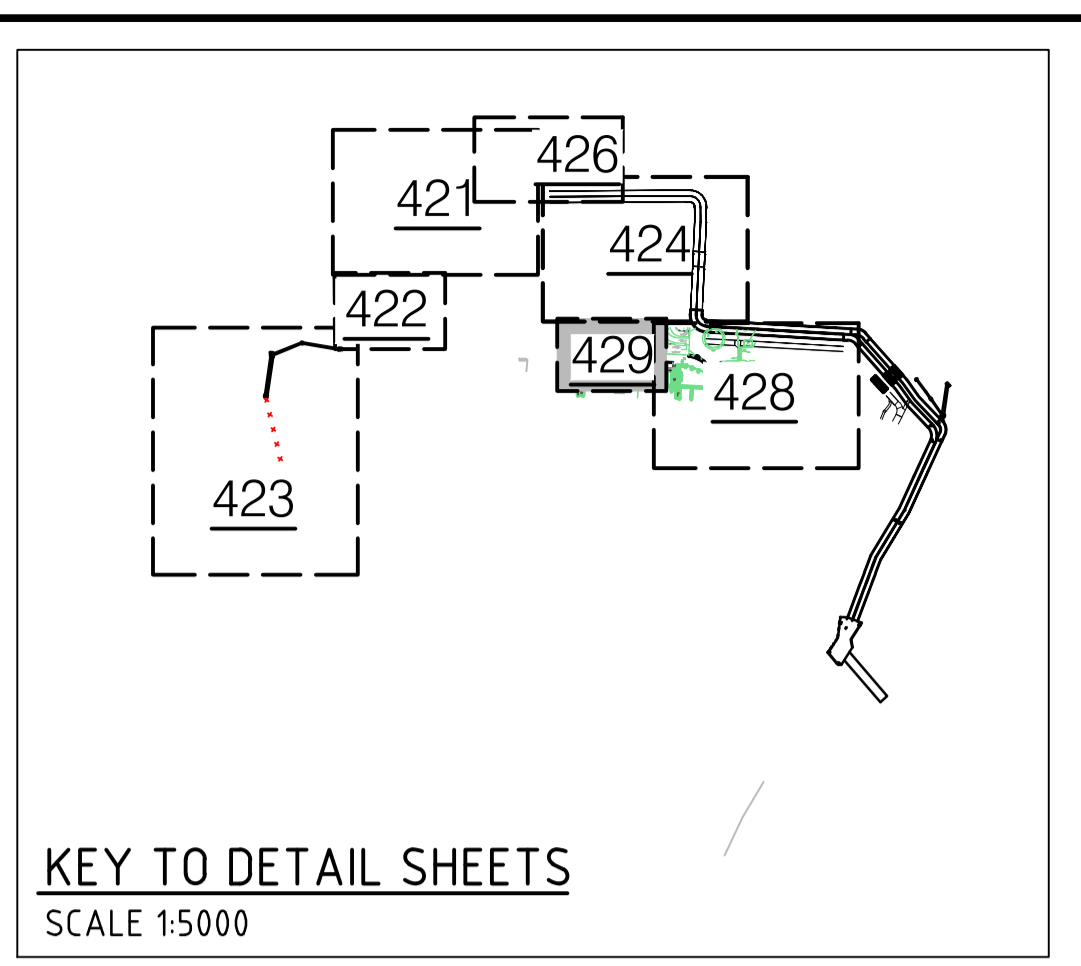
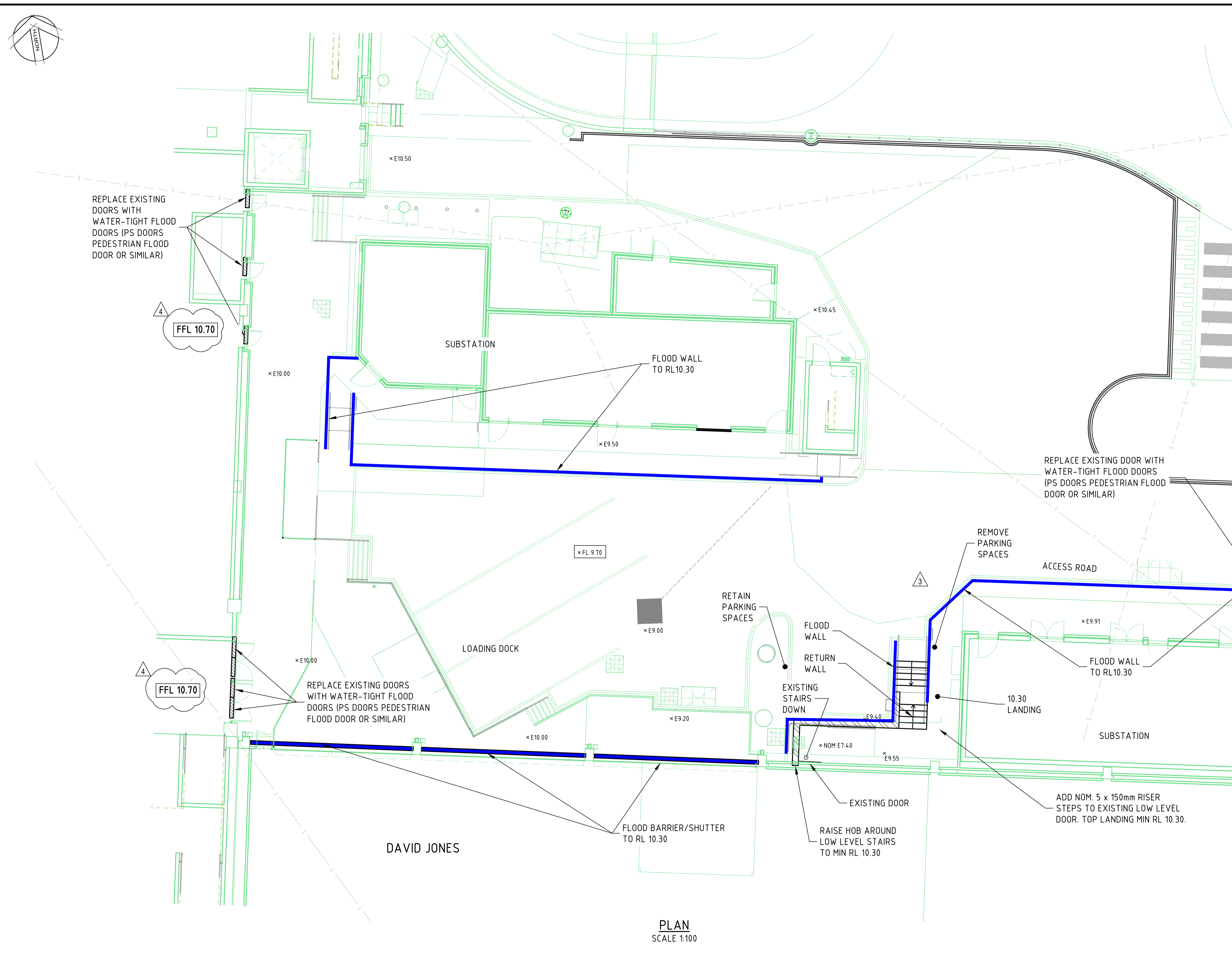


Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: WESTFIELD DESIGN & CONSTRUCTION
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS
DETAIL ARRANGEMENT PLAN
CROSS STREET ROUNDABOUT DETAILS

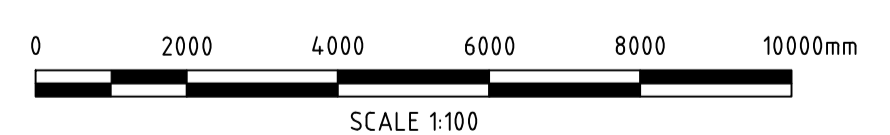
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Date	Datum	Scale	Size
18/11/2013	AHD	AS SHOWN	A1
Drawing Number	W4548-427		Revision
			4

XREF's: X:Services; X:Drainage; X:Survey; X:Carpark; X:Architect; X:GRPA-A1-SHT; X:SYDA-A1-Logp; WR-Floor Plan - Z02; GR Aerial Post Loading Proposed - JH
 CAD FILE: \\cardno.com\gibabau\JUN\Directory\Structure\Projects\489\FY13\489\3132_WARRINGAH MALL FLOODING AND DRAINAGE\01-Package_1\Drawn\454-429\4.dwg
 DATE PLOTTED: 1 April 2015 1:10 PM BY: JULIA PACHKOVA



- LEGEND**
- EXISTING**
- x E10.87 EXISTING LEVEL
 - EXISTING LOCAL DRAINAGE
- PROPOSED**
- x 11.00 PROPOSED LEVEL
 - x FL 10.03 100 YEAR ARI FLOOD LEVEL (m AHD)
 - █ PROPOSED FLOOD BARRIER/SHUTTER
 - ▨ PROPOSED WATER-TIGHT FLOOD DOOR
- SERVICES**
- E --- ELECTRICITY
 - G --- GAS
 - T --- OPTICAL FIBRE
 - O --- OPTUS
 - S --- SEWER
 - TEL --- TELSTRA
 - W --- WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

THIS PLAN TO BE READ IN CONJUNCTION WITH
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 WARRINGAH COUNCIL



Rev	Date	Description	Drawn	Appr.
4	31/3/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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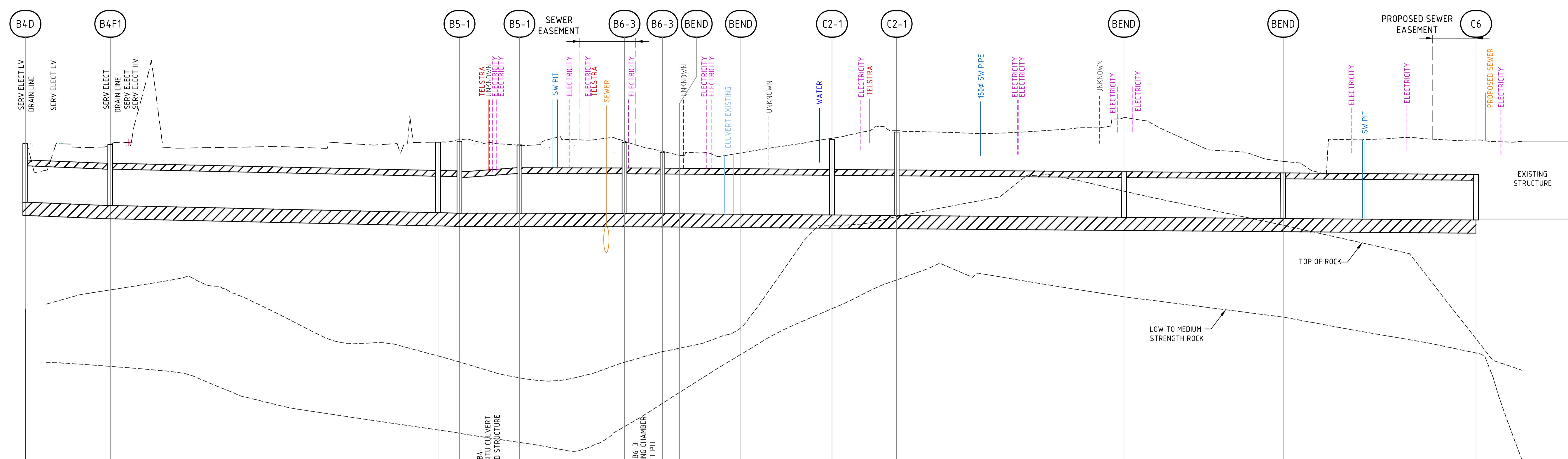


Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 DETAIL ARRANGEMENT PLAN
 DAVID JONES LOADING DOCK WORKS

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	1:100	A1
Drawing Number: W4548-429			Revision: 4

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm ON A1 ORIGINAL



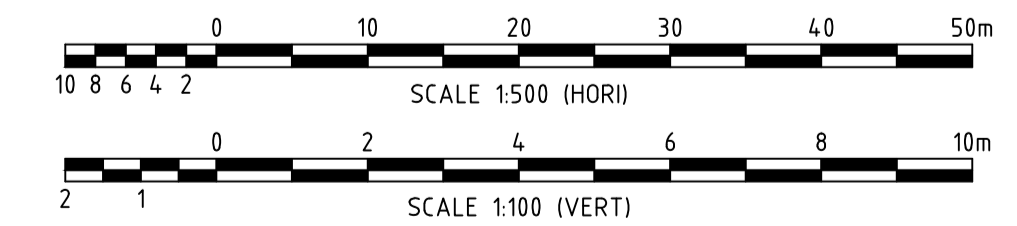
GRADE
 SIZE (WxH) (mm)

DATUM R.L.	-10.000		L=13.614		L=23.807		L=8.6		L=38.437		L=14.638		L=51.543		L=36.108		L=43.686	
DEPTH TO INVERT	2.659	2.769	3.193	3.193	3.169	3.169	2.758	2.758	2.550	3.506	3.784	3.784	4.461	4.461	2.532	2.532	3.517	3.517
INVERT LEVEL	7.000	6.850	6.530	6.506	6.342	6.342	6.300	6.300	6.281	6.238	6.219	6.219	6.139	6.139	6.084	6.084	6.000	6.000
SURFACE LEVEL	9.659	9.619	9.723	9.765	9.511	9.511	9.058	9.058	8.831	9.744	10.003	10.003	10.601	10.601	8.616	8.616	9.517	9.517
TOP OF ROCK LOW-MED STRENGTH	-0.634	-1.000	-1.286	-1.064	-2.078	-2.078	-0.733	-0.733	2.151	3.240	2.473	2.473	1.556	1.556	-4.924	-4.924	-0.857	-0.857
TOP OF ROCK	2.157	2.572	1.015	2.142	0.468	0.468	0.642	0.642	0.642	5.725	6.116	6.116	7.263	7.263	5.720	5.720	-0.857	-0.857
CHAINAGE	0.000	19.249	93.538	98.396	104.648	132.350	140.950	144.815	158.738	179.388	196.493	245.568	281.676	325.362				

LONGITUDINAL SECTION PIT B4-C6
 CULVERT 1
 SCALE 1:500(H) 1:100(V)

THIS PLAN TO BE READ IN
 CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL

NOTE:
 1. LOCATION AND LEVELS OF ALL SERVICES IS INDICATIVE ONLY. SERVICES TO BE LOCATED AND POTHOLED PRIOR TO CONSTRUCTION.
 2. ALL REQUIREMENTS ASSOCIATED WITH THE ADJUSTMENT TO ANY UNDERGROUND UTILITY SERVICES THAT CONFLICT WITH THE DRAINAGE WORKS ARE TO BE BORNE BY THE CONTRACTOR.



Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: WESTFIELD DESIGN & CONSTRUCTION
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 Status: PRELIMINARY
 Date: 18/11/2013 Datum: AHD Scale: AS SHOWN Size: A1
 Drawing Number: W4548-431
 STORMWATER LONGSECTIONS - SHEET 2 of 2

Date	18/11/2013	Datum	AHD	Scale	AS SHOWN	Size	A1	
Drawing Number	W4548-431						Revision	4



NOTE:
 LOCATION AND LEVEL OF ALL
 SERVICES TO BE CONFIRMED ON SITE

LEGEND

- EXISTING STORMWATER TO REMAIN
- EXISTING STORMWATER TO BE REMOVED
- PROPOSED STORMWATER (RCP)
- PROPOSED STORMWATER (RCBC)
- PROPOSED HIGH CAPACITY INLET
- APPROXIMATE AREAS OF REGRADING
- BOUNDARY
- ELECTRICITY
- GAS
- OPTICAL FIBRE
- OPTUS
- SEWER
- TELSTRA
- WATER

THIS PLAN TO BE READ IN
 CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL

20 10 0 20 40 60 80 100
 SCALE OF METRES (1:1000 BEFORE REDUCTION)

Rev	Date	Description	Drawn	Appr.
4	31/3/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THOUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



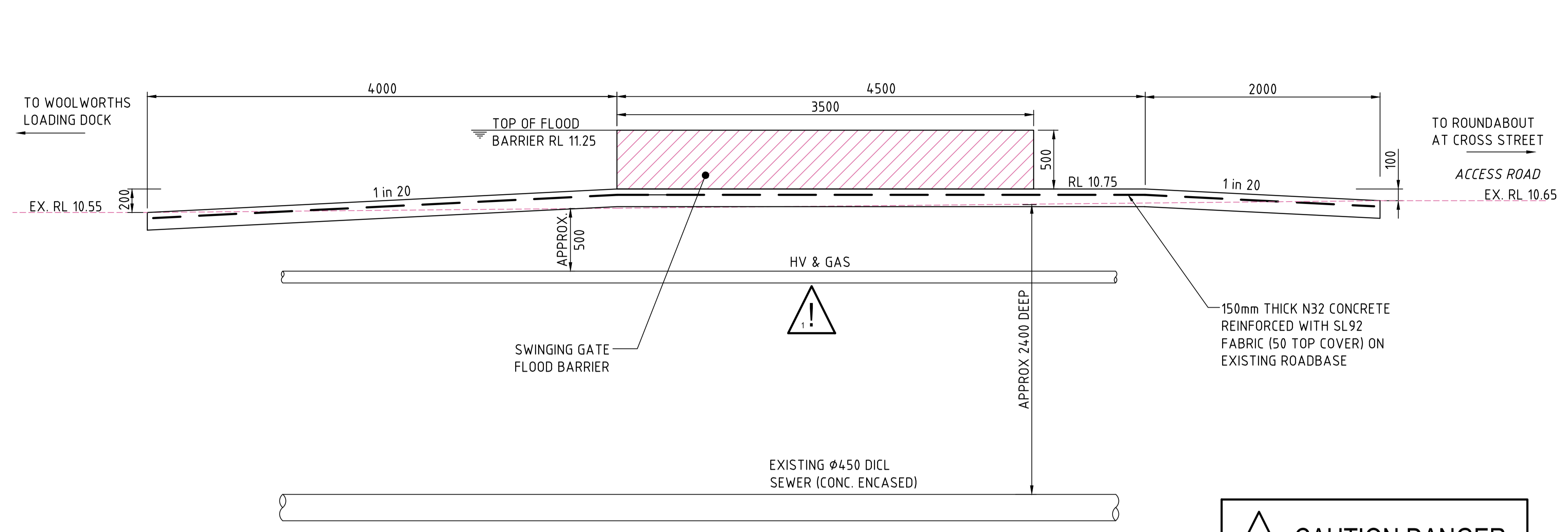
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Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

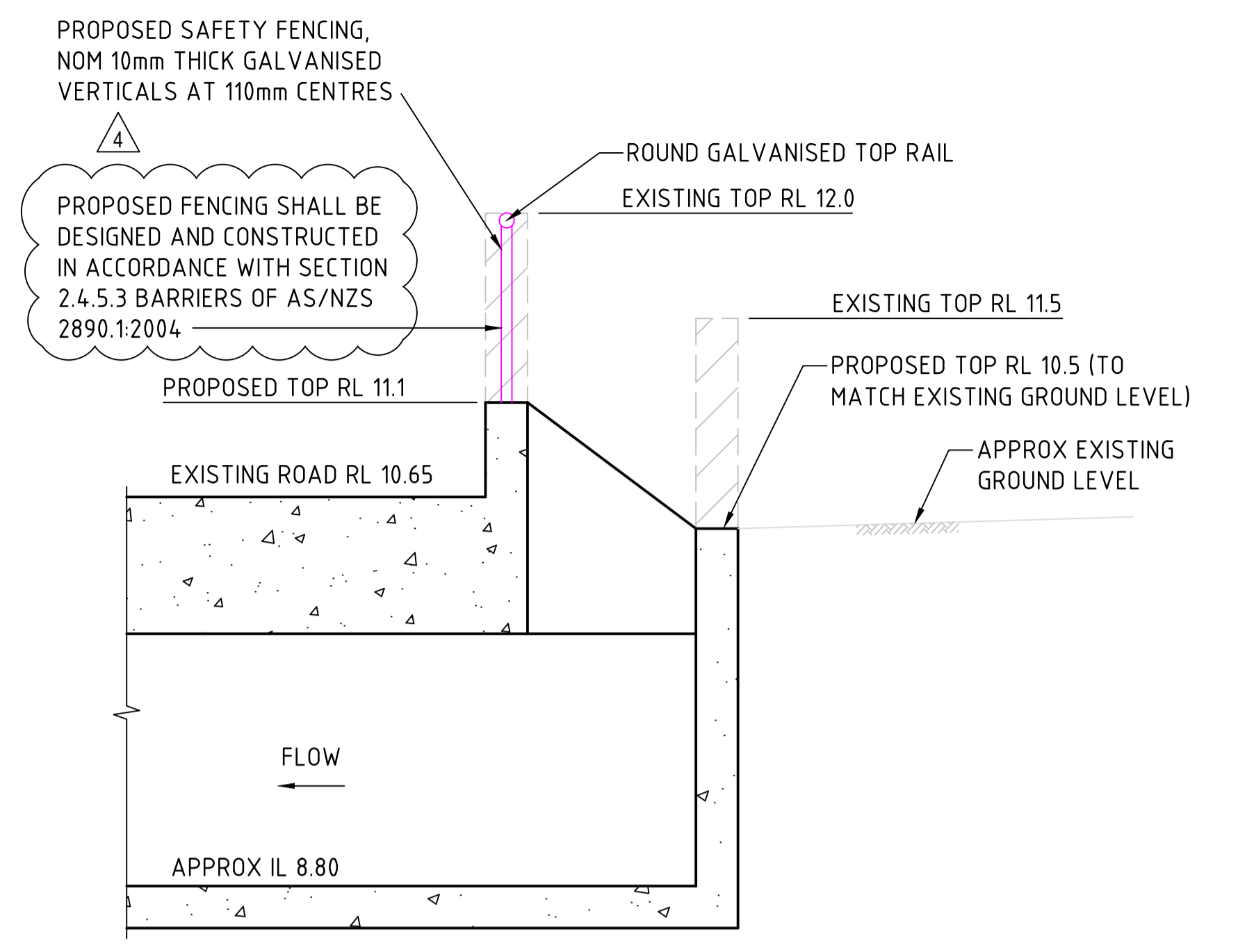
Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 GENERAL ARRANGEMENT PLAN
 MASTERPLAN WITH AERIAL OVERLAY

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	1:1000	A1
Drawing Number: W4548-402			Revision: 4

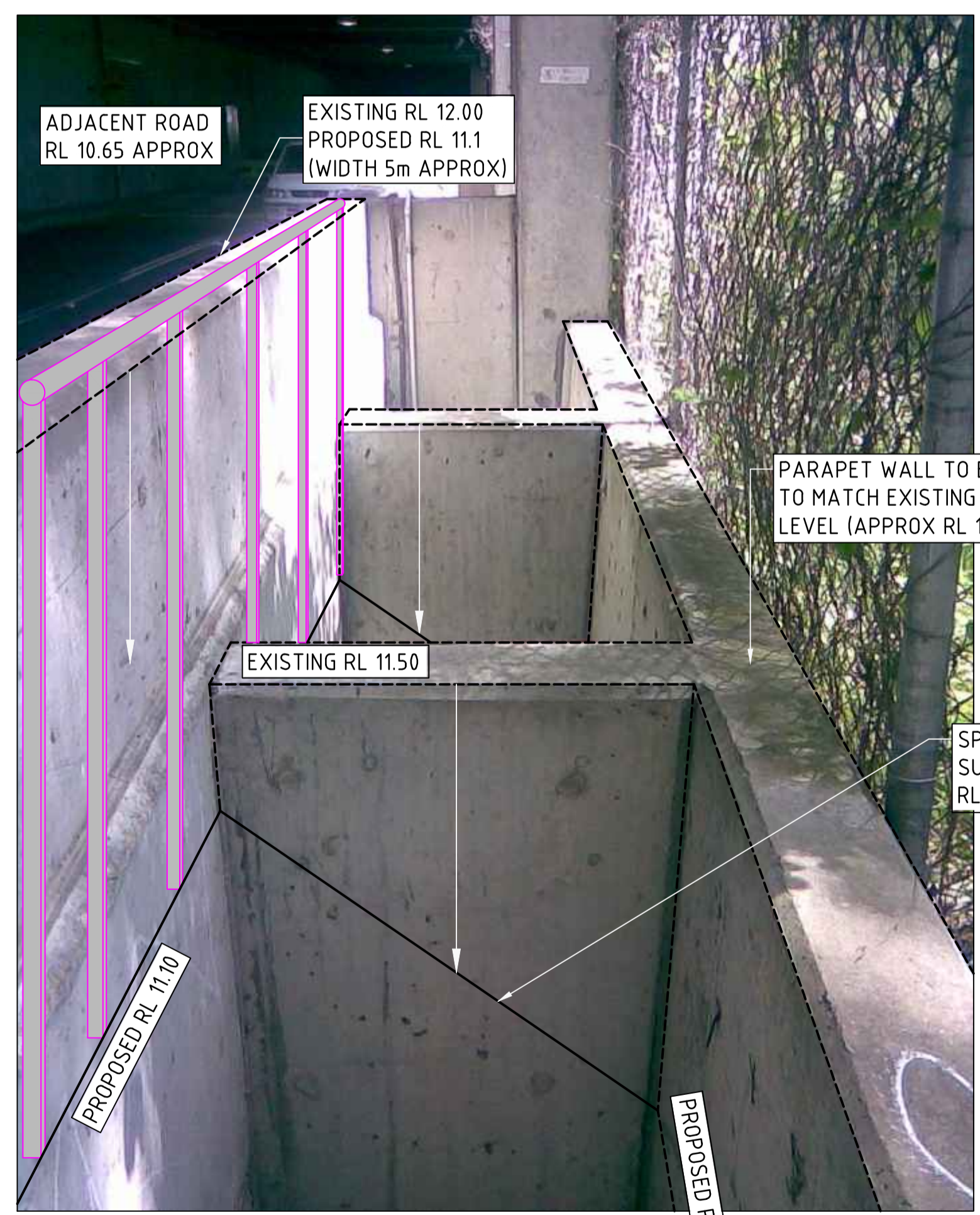
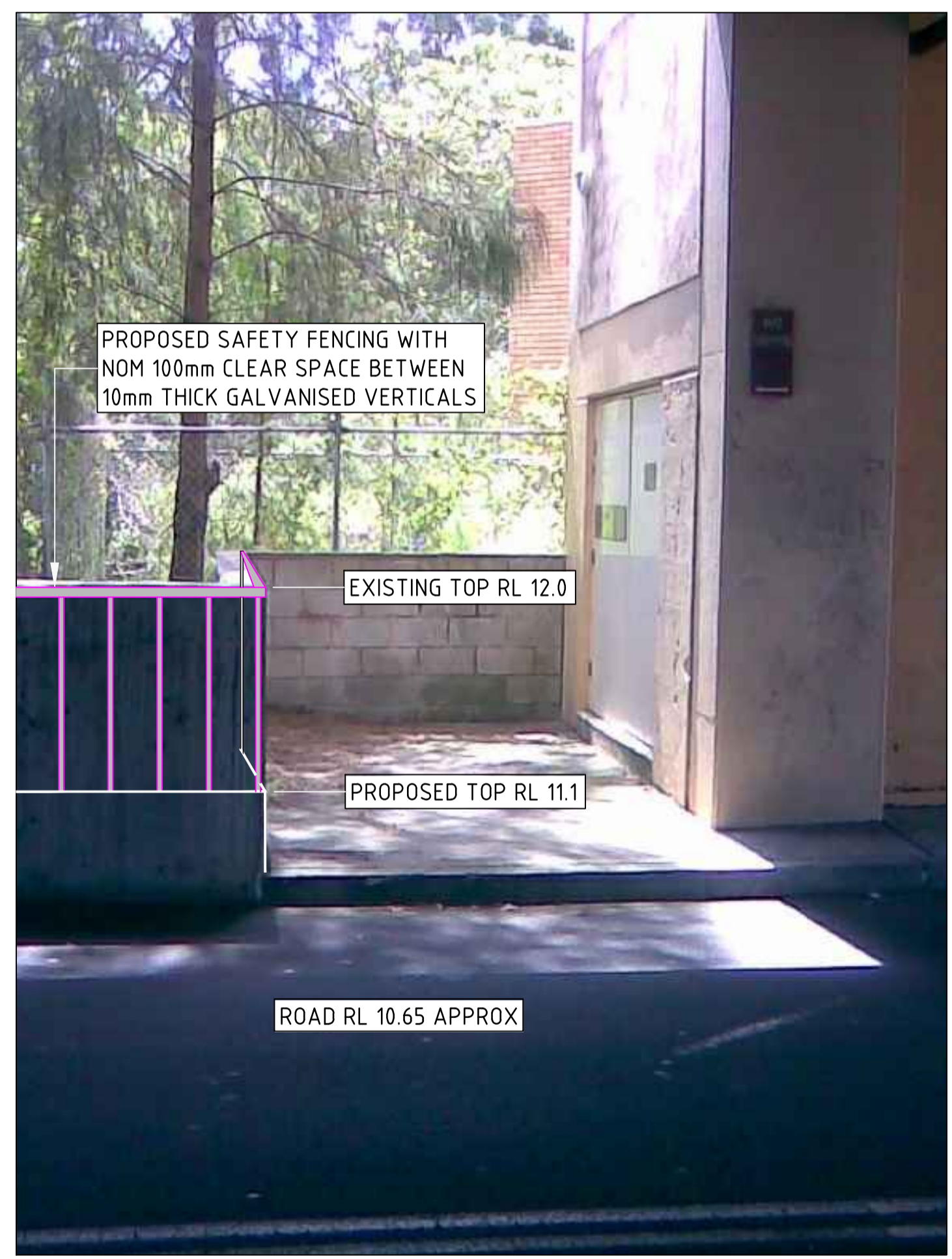


SECTION 1
SCALE 1:20

CAUTION DANGER
1. EXISTING UNDERGROUND HV ELECTRICITY.

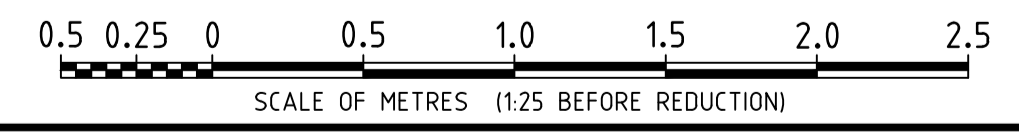


SECTION 2
SCALE 1:25



PARAPET WALL AUGMENTATION
NOT TO SCALE

THIS PLAN TO BE READ IN CONJUNCTION WITH
MOD2014/0285
WARRINGAH COUNCIL



XREFs: X-Architect; X-Service; X-Survey; X-GRP-A1-SHT; X-SYD-A1-Logo
CAD FILE: \\cardno.com\g\ba\AUNSW\Director\Structure\Projects\499\FY13\NA49913132_WARRINGAH MALL FLOODING AND DRAINAGE\01-Package_1_Datav4548-411(4).dwg

Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THOUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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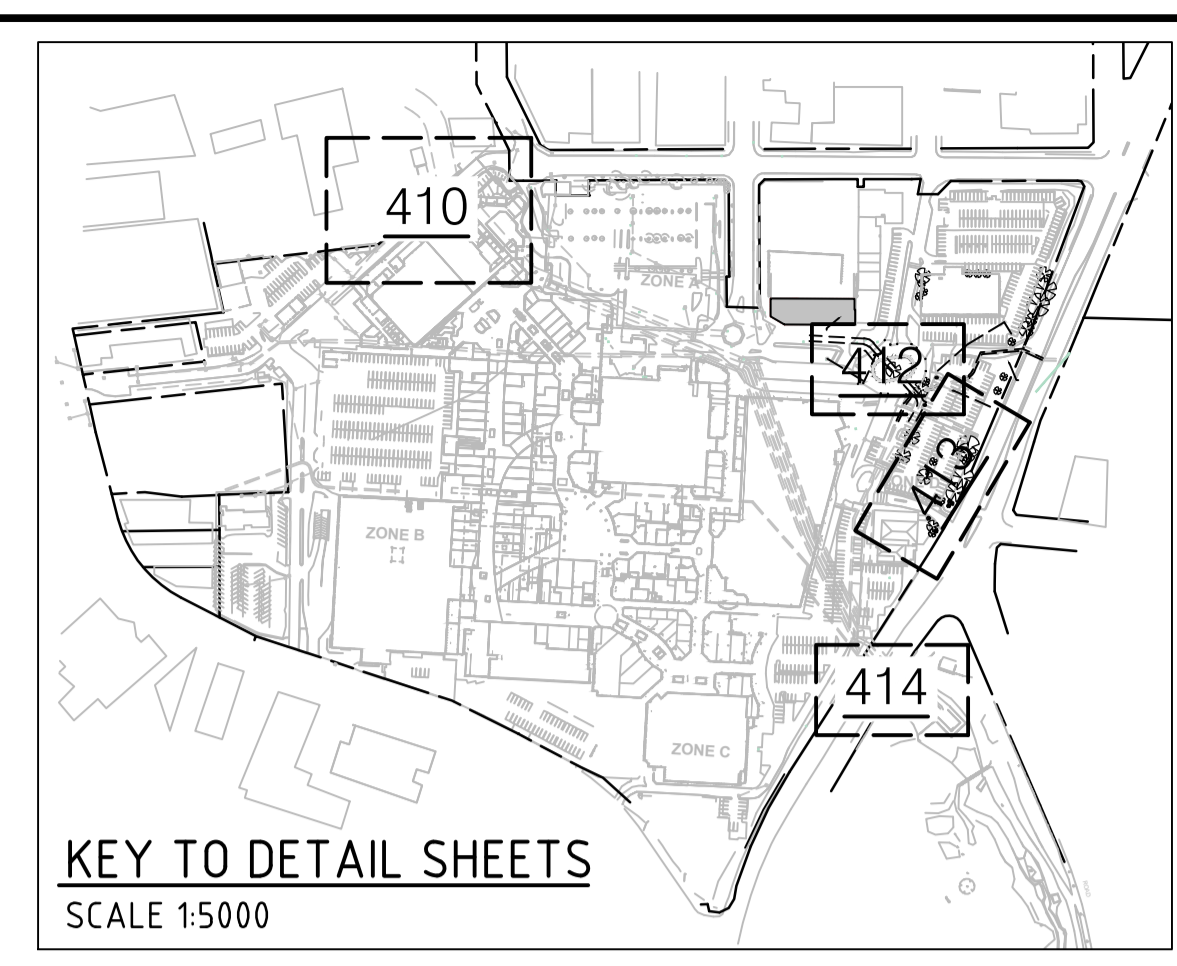
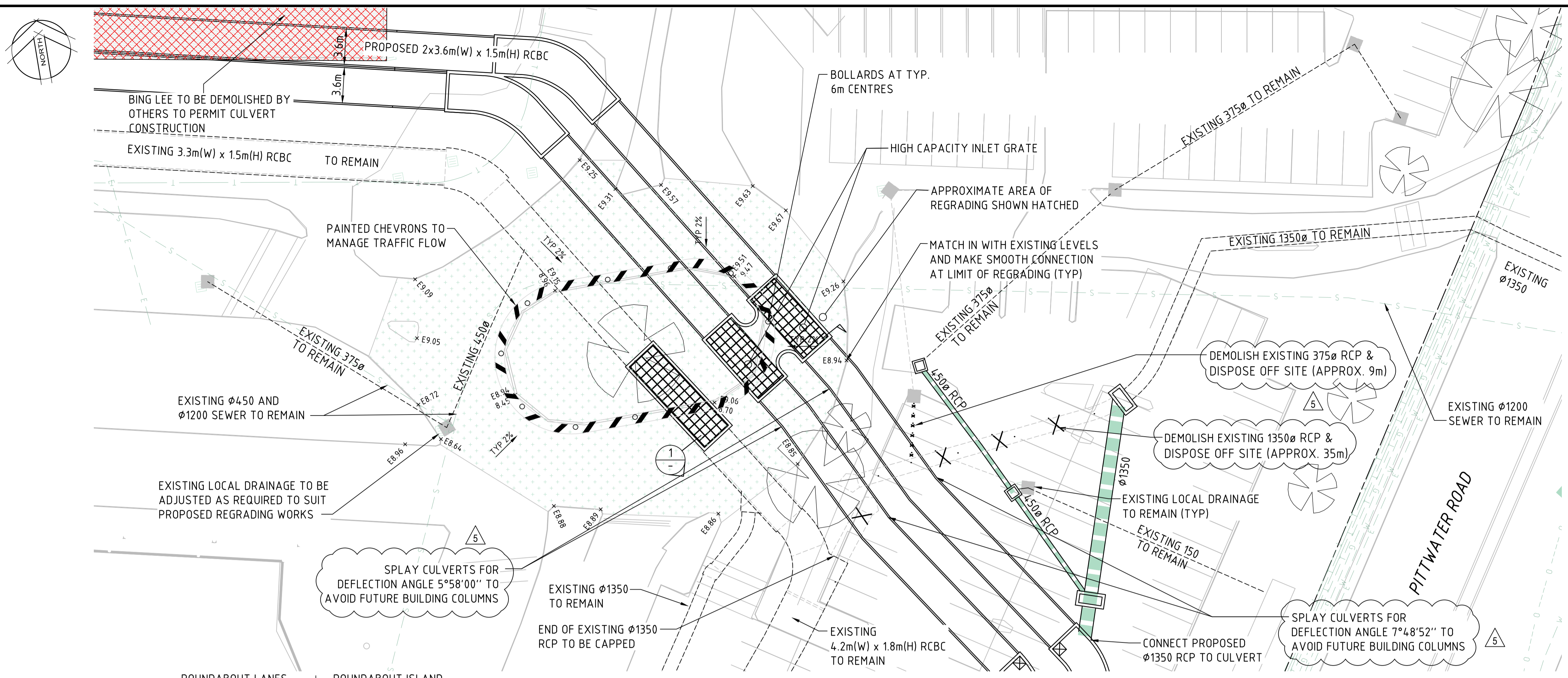


Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: WESTFIELD DESIGN & CONSTRUCTION
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS
DETAIL ARRANGEMENT PLAN
CROSS STREET & BROOKVALE CREEK DETAILS

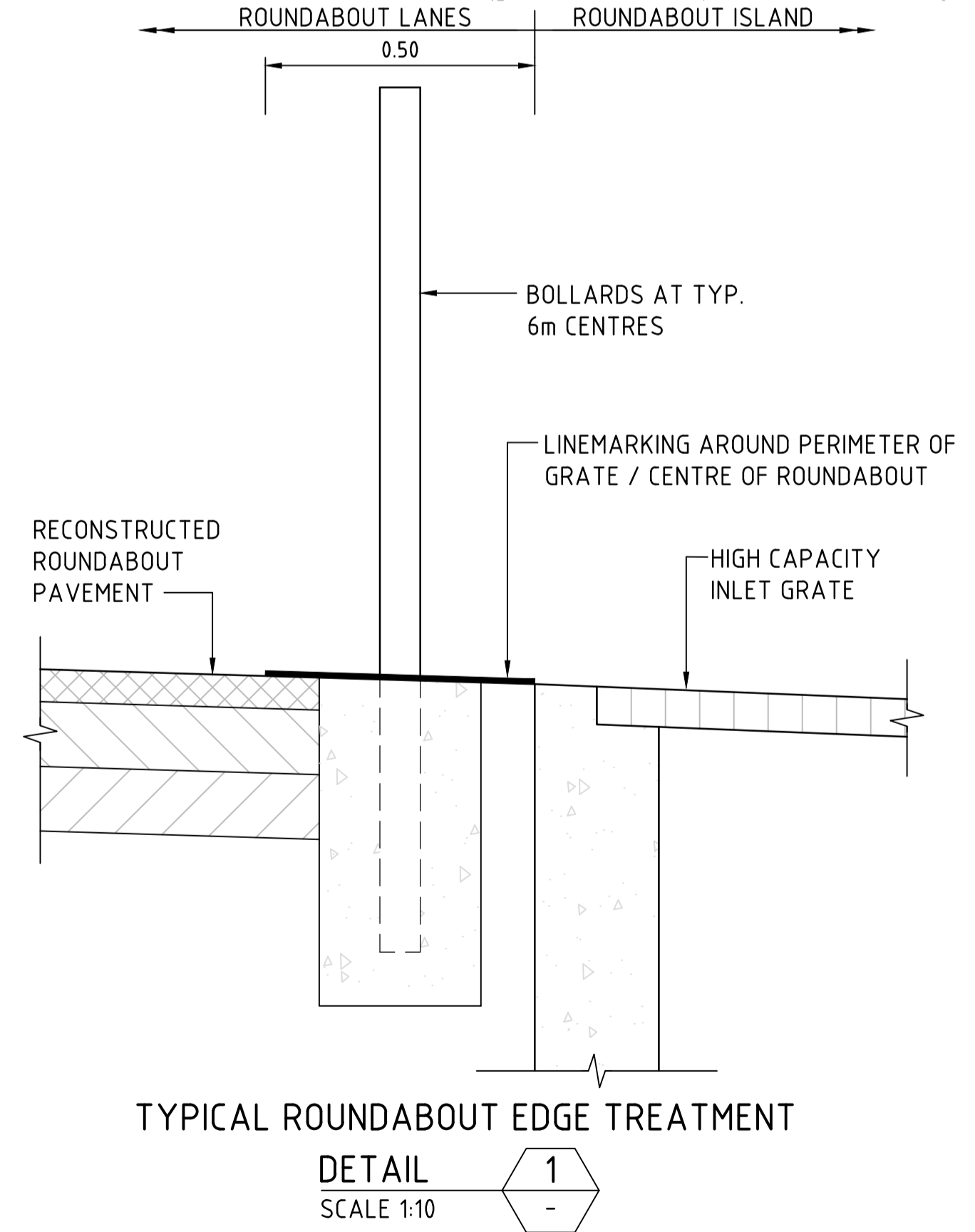
Status	PRELIMINARY			
Date	18/11/2013	Datum	AHD	
Scale	1:25	Size	A1	
Drawing Number	W4548-411		Revision	4

DATE PLOTTED: 1 April 2015 2:22 PM BY: JULIA PACHKOVA

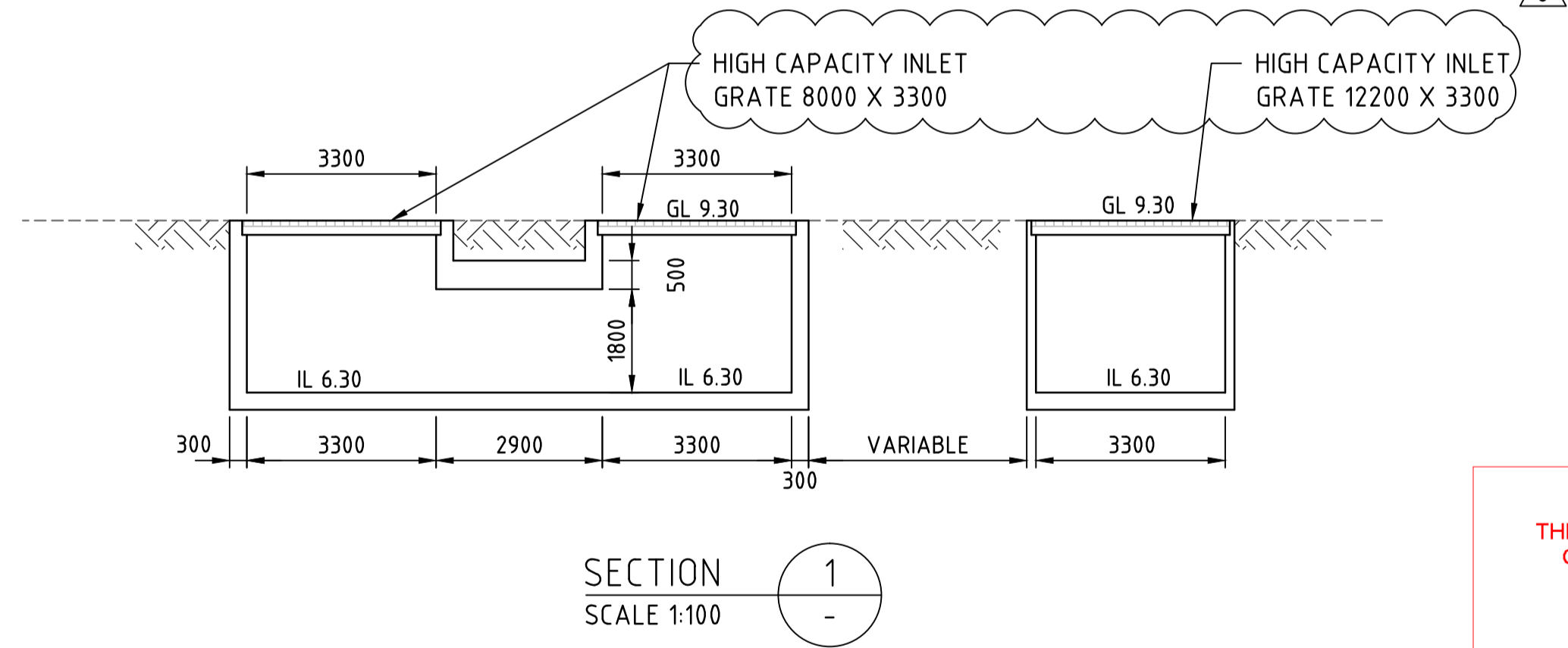


- LEGEND**
- EXISTING**
- EXISTING CULVERTS
 - x E10.87 EXISTING SPOT LEVEL
 - EXISTING LOCAL DRAINAGE
- PROPOSED**
- STORMWATER PIPE
 - CULVERTS
 - x 11.00 PROPOSED SPOT LEVEL
 - o PROPOSED BOLLARD
 - APPROXIMATE AREA OF REGRADE
 - HIGH CAPACITY GRATE
 - BUILDING TO BE DEMOLISHED
- SERVICES**
- E --- ELECTRICITY
 - G --- GAS
 - T --- OPTICAL FIBRE
 - O --- OPTUS
 - S --- SEWER
 - TELSTRA
 - W --- WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

PLAN SCALE 1:250



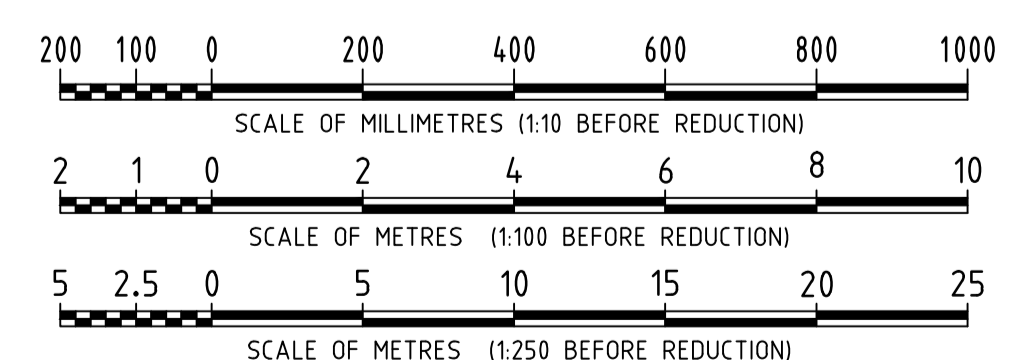
DETAIL SCALE 1:10



THIS PLAN TO BE READ IN CONJUNCTION WITH MOD2014/0285 WARRINGAH COUNCIL

NOTE:

- HIGH CAPACITY INLET GRATES ARE 100THICK WELDLK DIAMOND GRATING CD-1006 (150 kg/m²) ON 310UB46 STEEL BEAMS @1m CTRS.
- DESIGN LOAD AS1600 IN ACCORDANCE WITH AS5100 BRIDGE CODE.



XREF's: X:Survey; X:Architect; X:Drainage; X:GRP-AT-SHT; X:SYD-AT-Logo; X:Typical Sections; CAD FILE: \\cardno.com\g\ba\A\JUN\W\Directory\Structure\Projects\699\FY13\MA489\3132_WARRINGAH MALL FLOODING AND DRAINAGE\01_Package_11_Data\W4548-412.dwg

Rev	Date	Description	Drawn	Appr.
5	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
4	7/11/2014	BING LEE, HCF & GODFATHERS NOTE ADDED	LLC	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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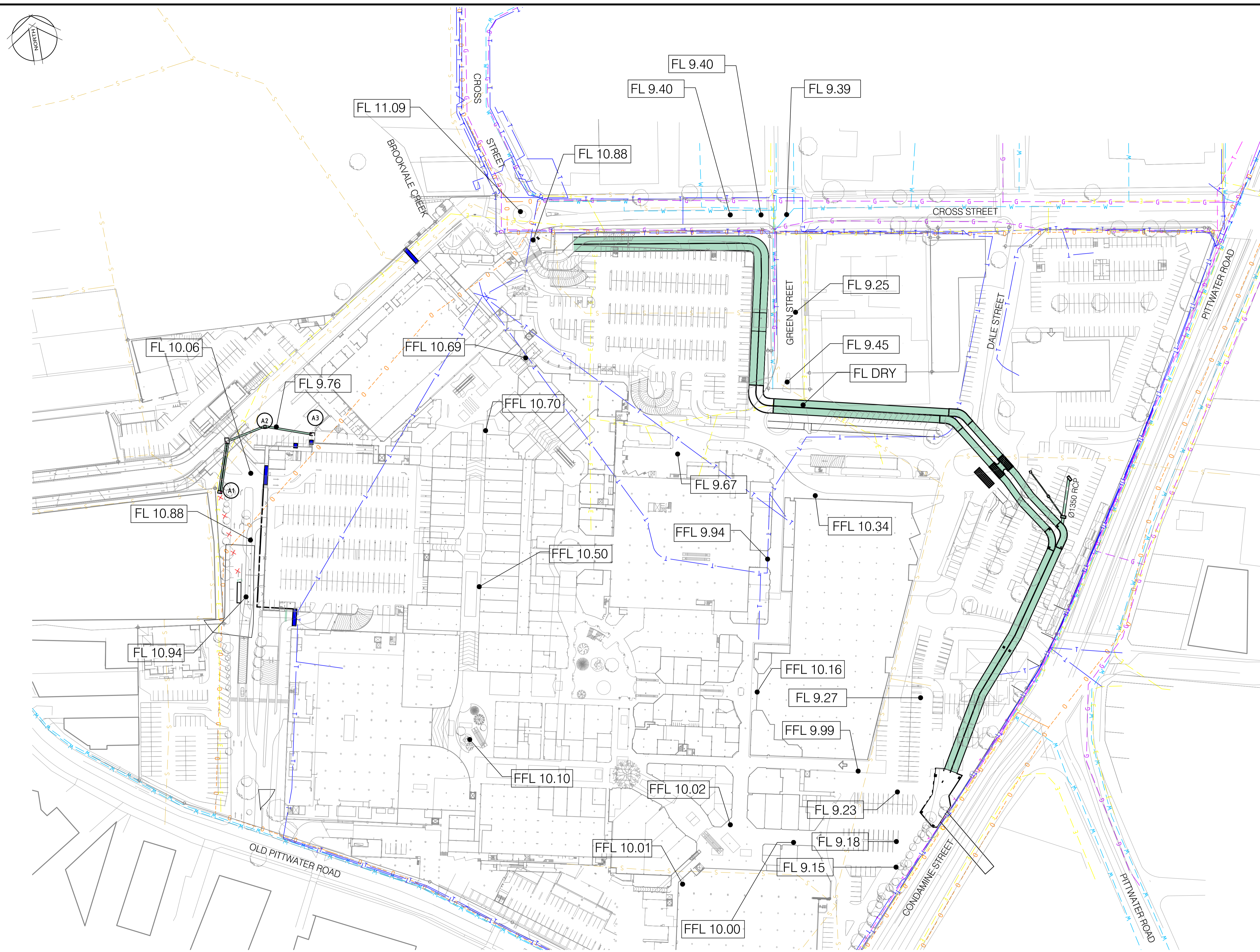


Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS
DETAIL ARRANGEMENT PLAN
DALE STREET ROUNDABOUT

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	AS SHOWN	A1
Drawing Number: W4548-412			Revision: 5

DATE PLOTTED: 31 March 2015 1:44 PM BY: JULIA PACHKOVA

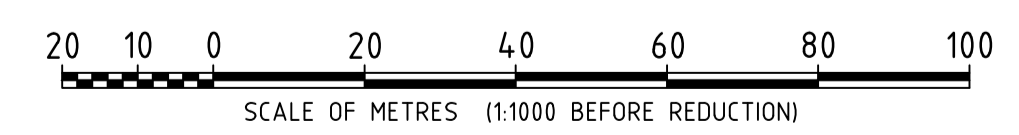


LEGEND

- - - - - EXISTING STORMWATER TO REMAIN
- - - - - EXISTING STORMWATER TO BE REMOVED
- - - - - PROPOSED STORMWATER (RCP)
- PROPOSED STORMWATER (RCBC)
- PROPOSED HIGH CAPACITY INLET
- APPROXIMATE AREAS OF REGRADING
- APPROXIMATE AREA OF CHANNEL REGRADING
- FFL 10.50 FINISHED FLOOR LEVEL (m AHD)
- FL 10.17 100 YEAR ARI FLOOD LEVEL (m AHD)
- BOUNDARY
- ELECTRICITY
- GAS
- OPTICAL FIBRE
- OPTUS
- SEWER
- TELSTRA
- WATER

NOTE:
 1. LOCATION AND LEVEL OF ALL SERVICES TO BE CONFIRMED ON SITE
 2. FL DRY - EXISTING SURFACE LEVEL IS ABOVE THE 100 YEAR ARI FLOOD LEVEL.

THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL



XREF's: X:Drainage; X:Survey; X:Architect; X:Campark; X:GRP-A1-SHT; X:SYD-A1-Logo
 CAD FILE: I:\cardno\cardno\Projects\Warringah\Projects\Warringah Mall Flooding and Drainage\01_Package_1_Data\W454-420(6).dwg

Rev	Date	Description	Drawn	Appr.
6	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
5	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
4	15/10/2014	FLOOD LEVELS AMENDED	JT	DNA
3	13/08/2014	FLOOD LEVELS REVISED	GV	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



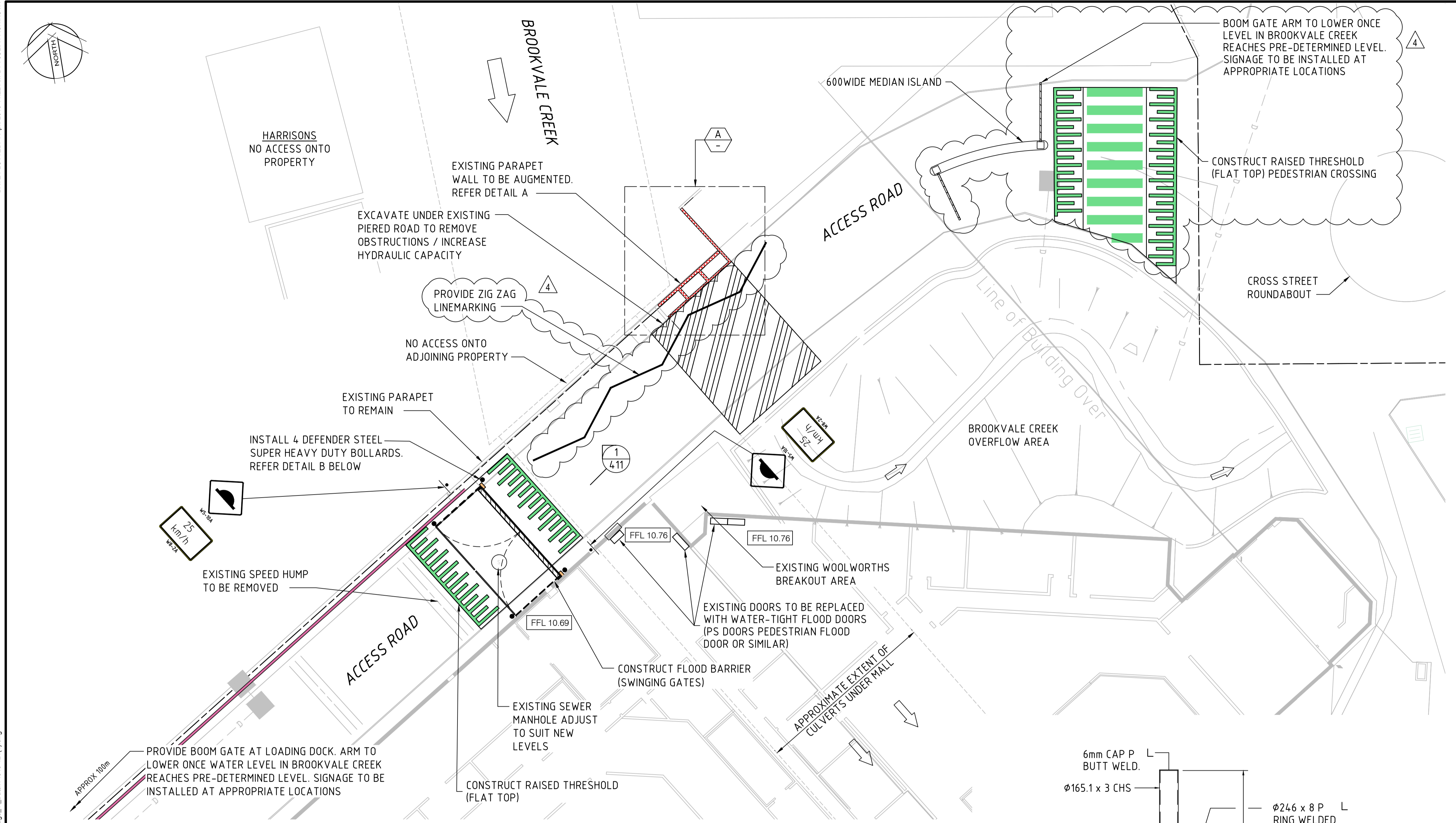
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Drawn	GV	Date	13/08/2014
Checked	DNA	Date	13/08/2014
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: WESTFIELD DESIGN & CONSTRUCTION
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS
 Status: **PRELIMINARY**
 Date: 12/08/2014 Datum: AHD Scale: 1:1000 Size: A1
 Drawing Number: **W4548-420** Revision: **6**
 DETAIL ARRANGEMENT PLAN
 GENERAL ARRANGEMENT PLAN

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm ON A1 ORIGINAL



PLAN
SCALE 1:150

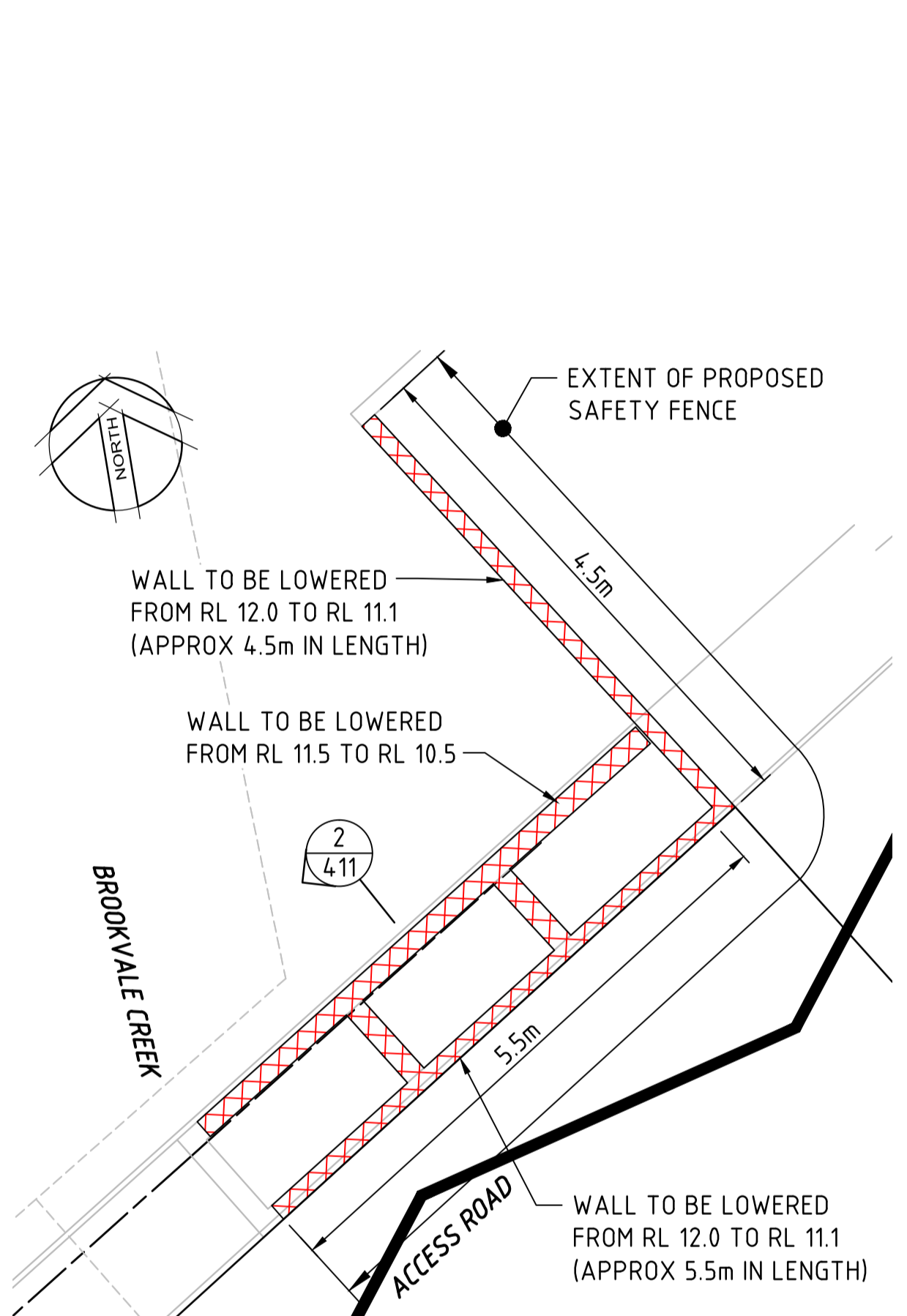
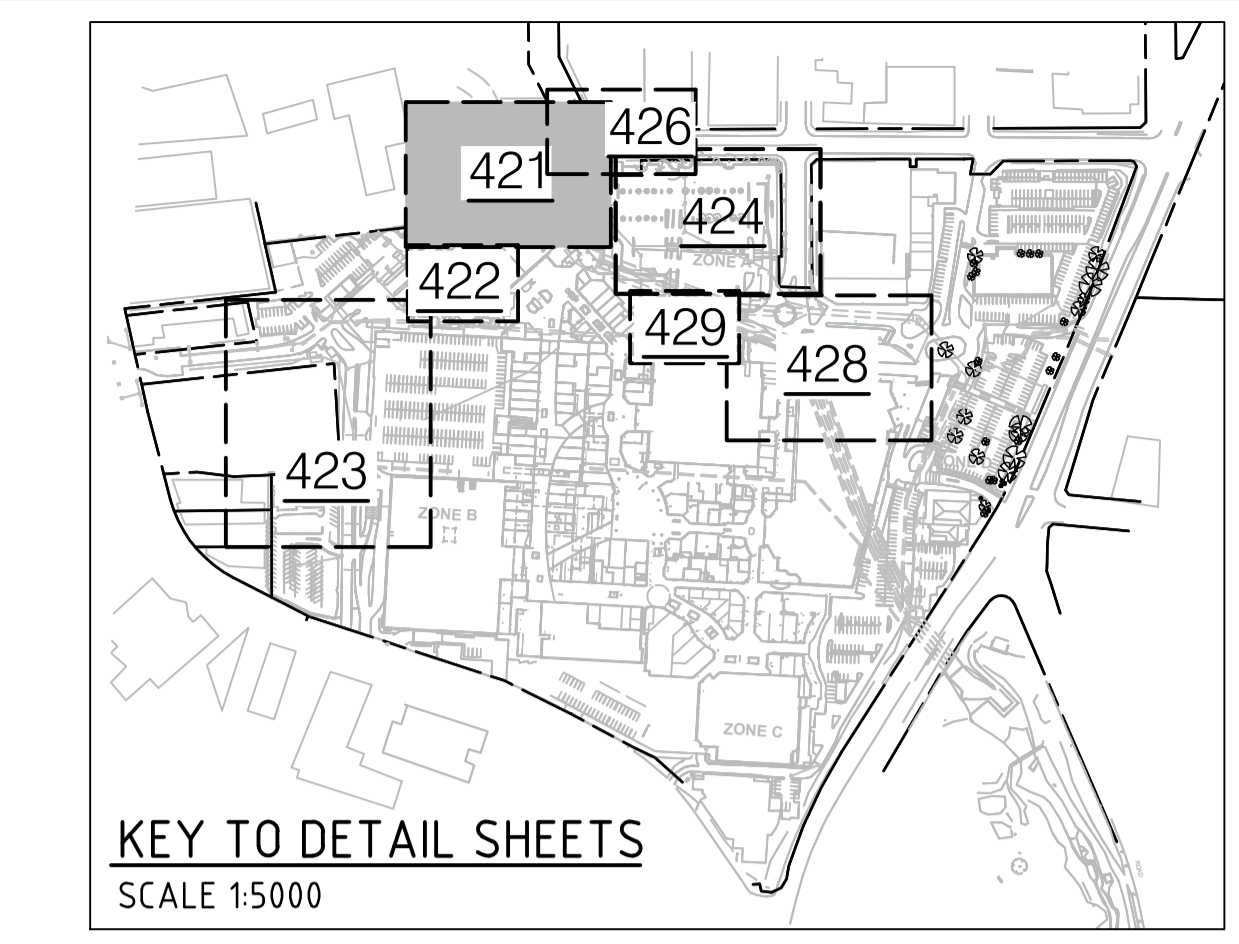
LEGEND

- WALL TO BE LOWERED
- FLOOD BARRIER
- BOOM GATE ARM
- DIRECTION OF FLOW
- EXTENT OF CHANNEL REGRADING

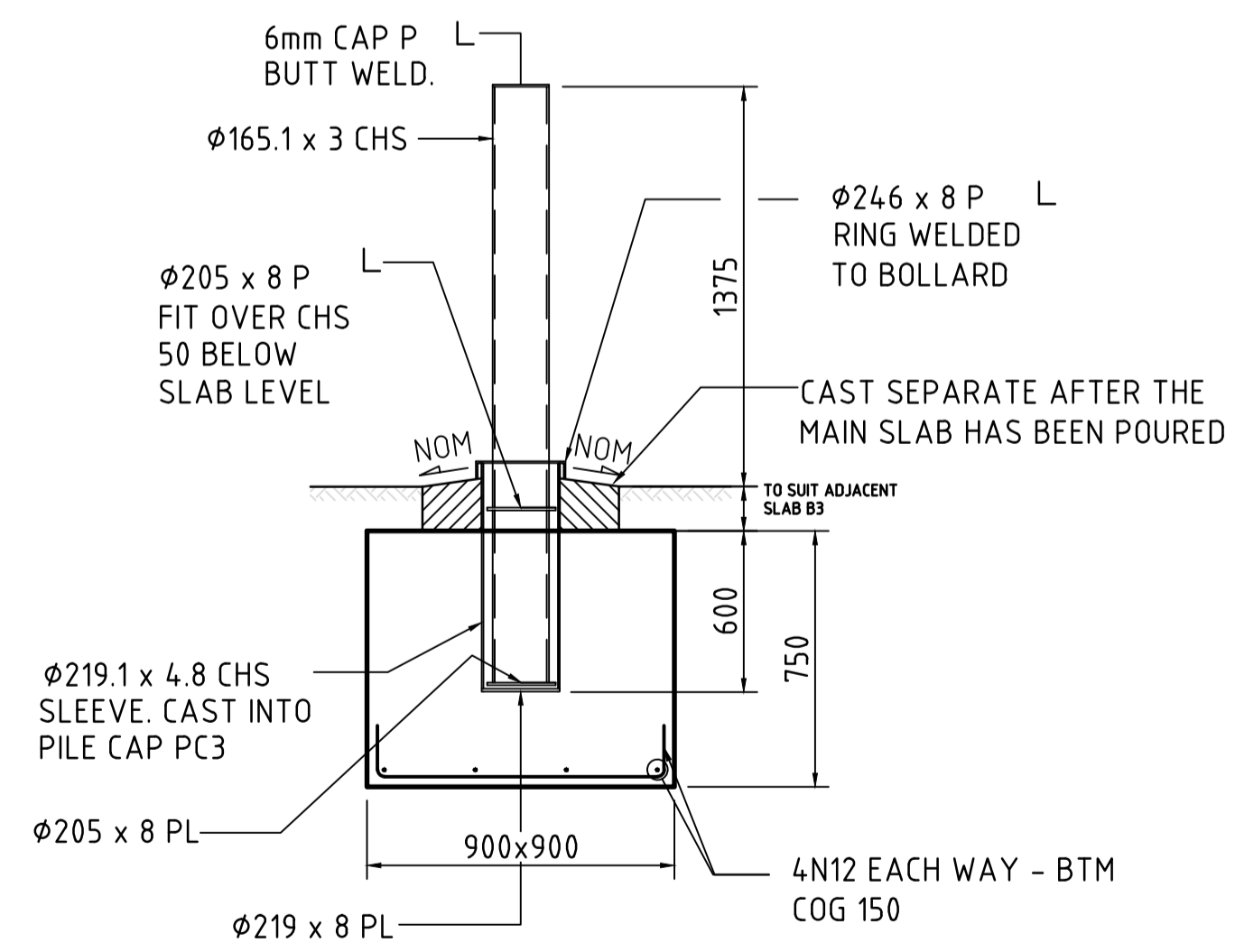
SERVICES

- ELECTRICITY
- GAS
- OPTICAL FIBRE
- OPTUS
- SEWER
- TELSTRA
- WATER

NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY



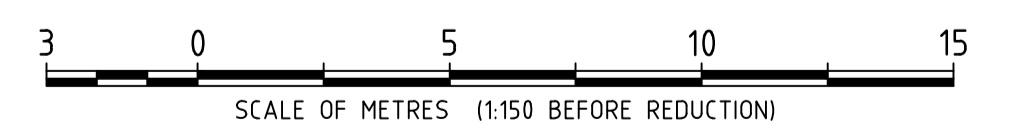
DETAIL
SCALE 1:50



DETAIL
SCALE 1:10

NOTE: ALL ELEMENTS TO BE GALVANIZED

THIS PLAN TO BE READ IN CONJUNCTION WITH
MOD2014/0285
WARRINGAH COUNCIL



Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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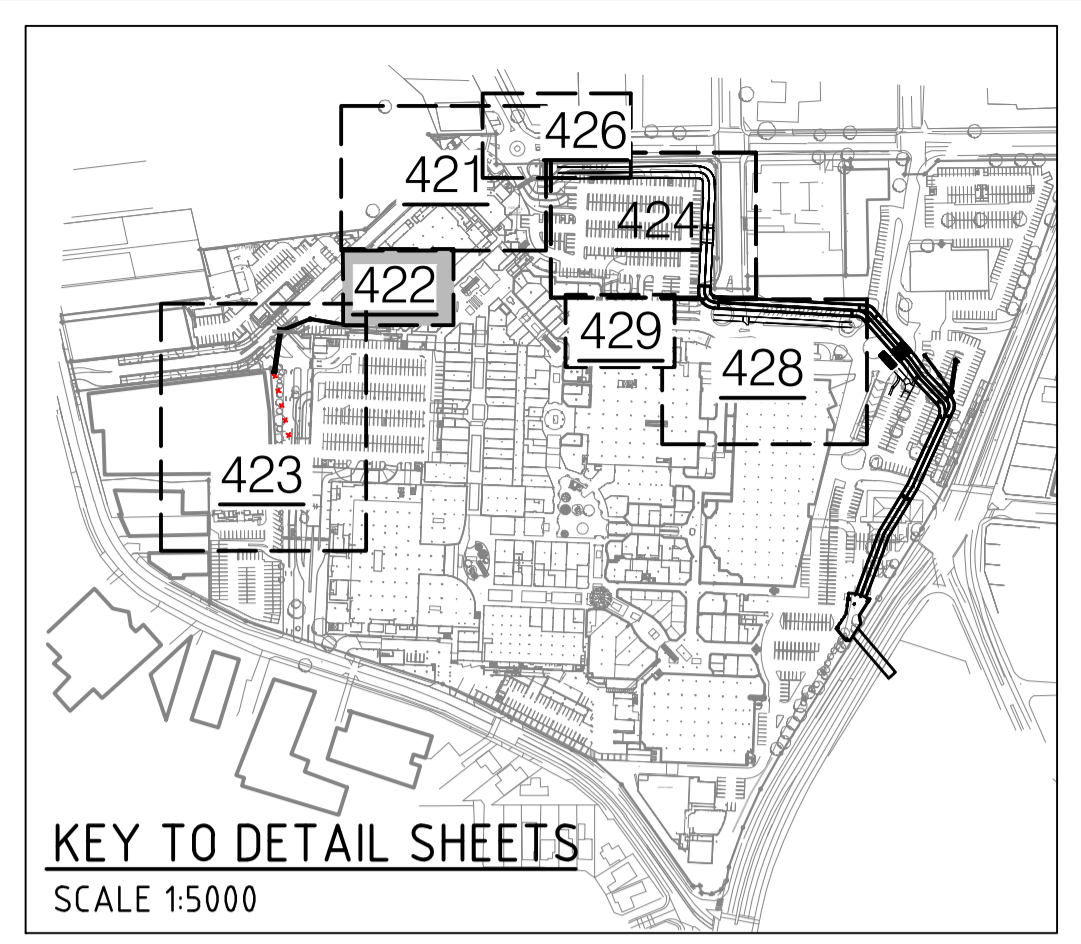
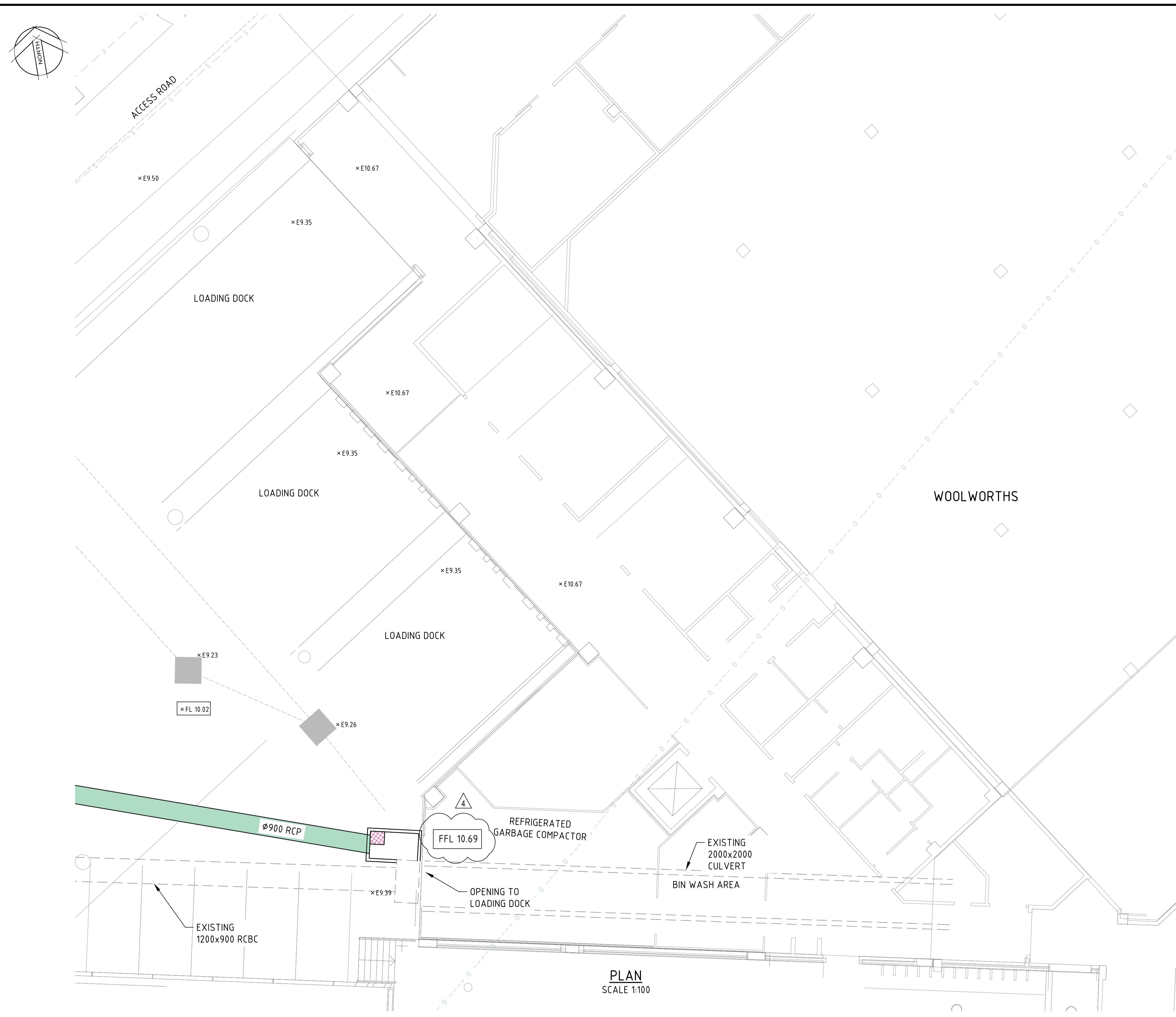
Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: WESTFIELD DESIGN & CONSTRUCTION
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 DETAIL ARRANGEMENT PLAN
 CROSS STREET & BROOKVALE CREEK

Status PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	AS SHOWN	A1
Drawing Number W4548-421			Revision 4

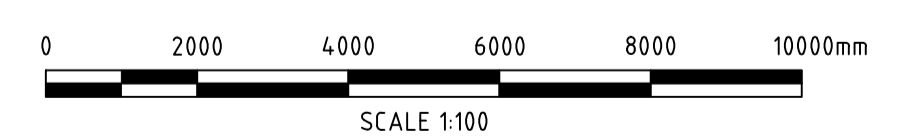
DATE PLOTTED: 1 April 2015 11:27 AM BY: JULIA PACHKOVA

XREF's: X-Drainage; X-Survey; X-Architect; X-Carpark; X-GRP-A1-SHT; X-SYD-A1-Logo
 CAD FILE: \\cardno.com\gibabai\JUN\W\Directory\Structure\Projects\899\FY13\MA4891312_WARRINGAH MALL FLOODING AND DRAINAGE\01_Package_1\Drawn\4548-422\4.dwg



- LEGEND**
- EXISTING**
- × E10.87 EXISTING LEVEL
 - EXISTING LOCAL DRAINAGE
- PROPOSED**
- × 11.00 PROPOSED LEVEL
 - × FL 10.03 100 YEAR ARI FLOOD LEVEL (m AHD)
 - FFL 10.69 FINISHED FLOOR LEVEL
- PROPOSED WATER-TIGHT FLOOD DOOR
- SERVICES**
- E ELECTRICITY
 - G GAS
 - T OPTICAL FIBRE
 - O OPTUS
 - S SEWER
 - T TELSTRA
 - W WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

THIS PLAN TO BE READ IN CONJUNCTION WITH
MOD2014/0285
WARRINGAH COUNCIL



PLAN
SCALE 1:100

Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



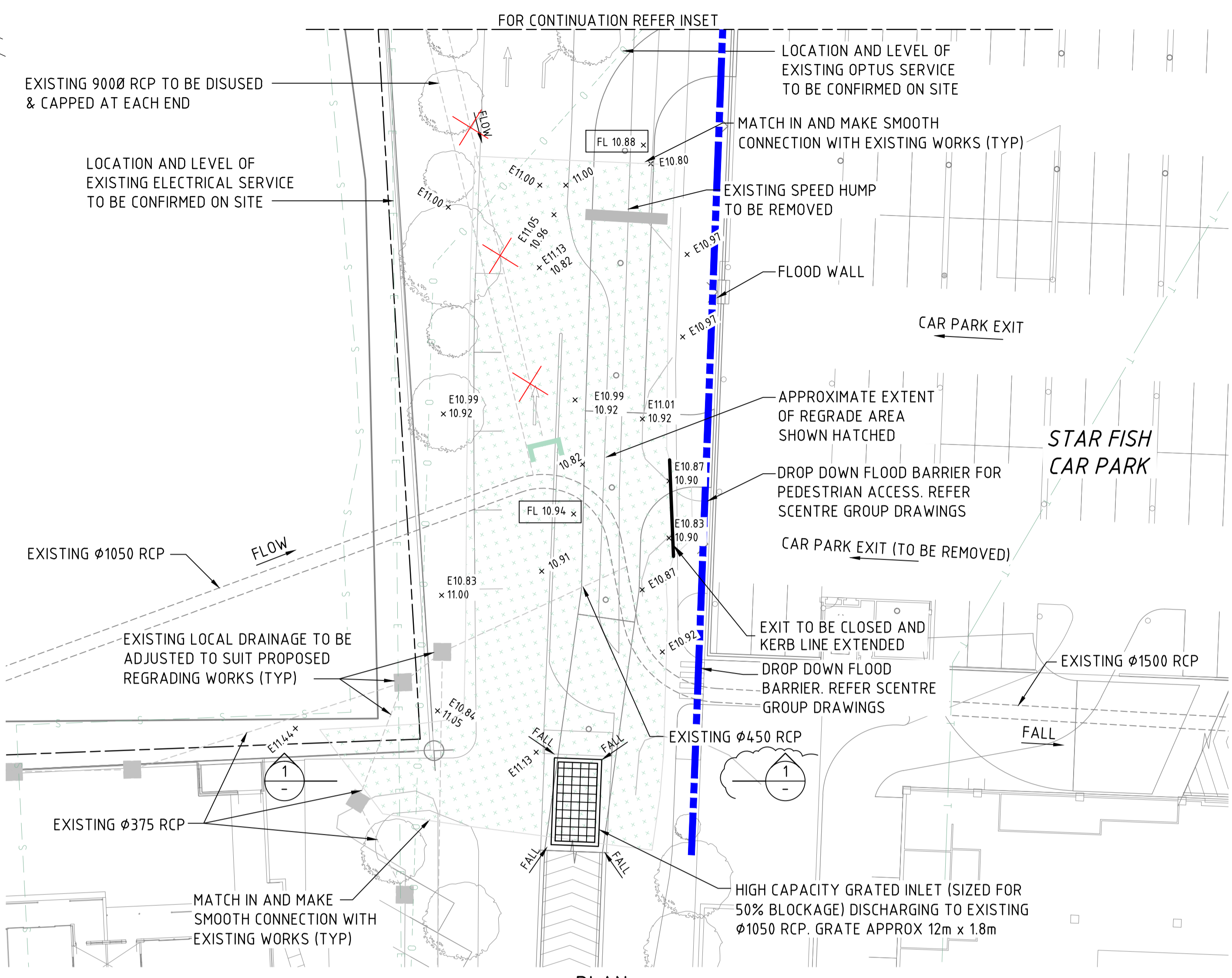
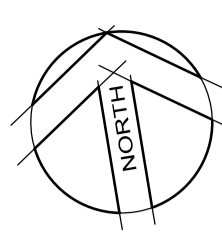
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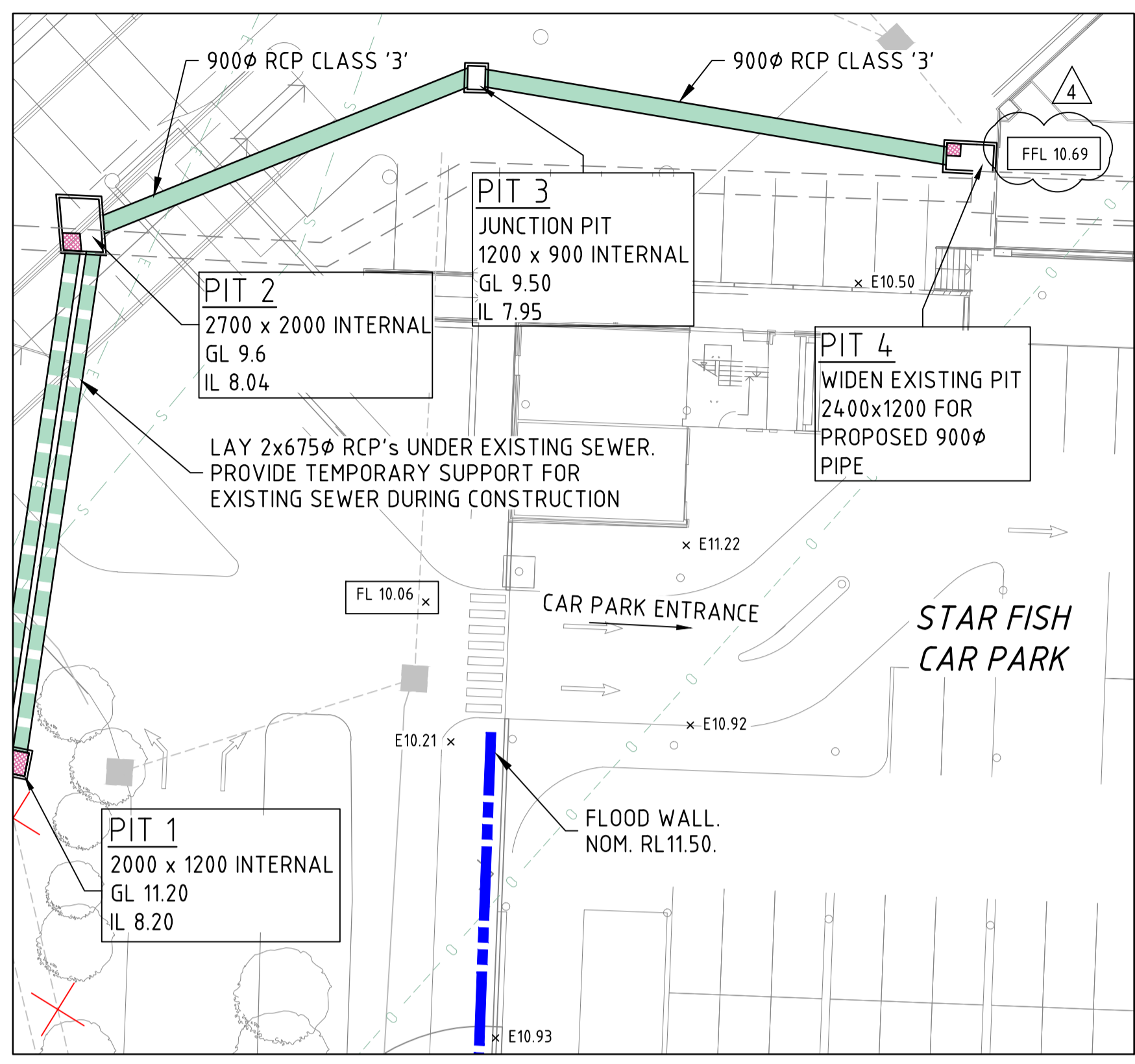
Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 DETAIL ARRANGEMENT PLAN
 WOOLWORTHS LOADING DOCKS WORKS

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	1:100	A1
Drawing Number: W4548-422			Revision: 4

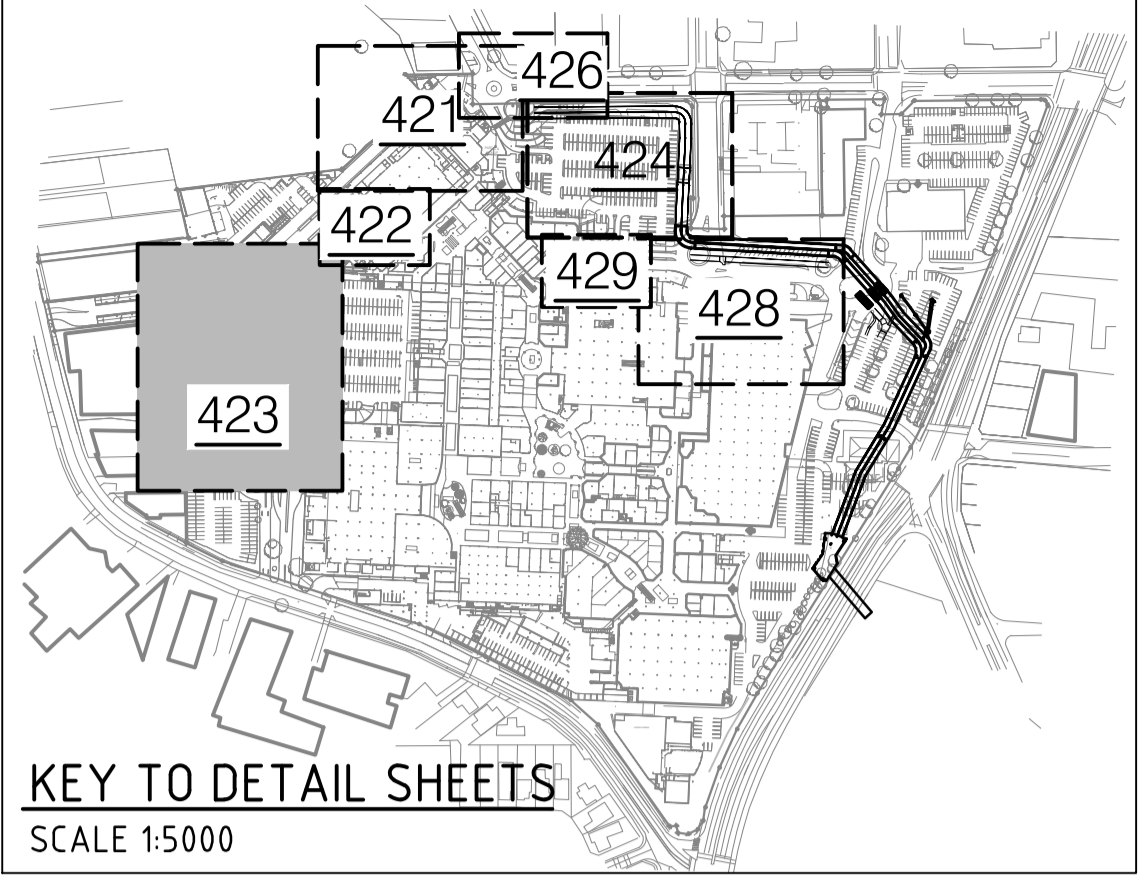


PLAN
SCALE 1:250



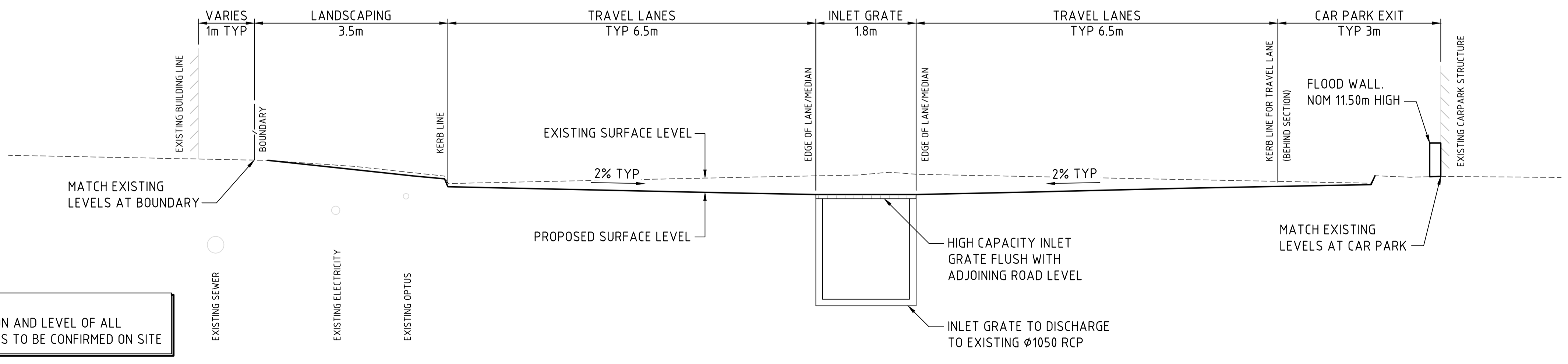
INSET
SCALE 1:250

THIS PLAN TO BE READ IN CONJUNCTION WITH
MOD2014/0285
WARRINGAH COUNCIL



KEY TO DETAIL SHEETS
SCALE 1:5000

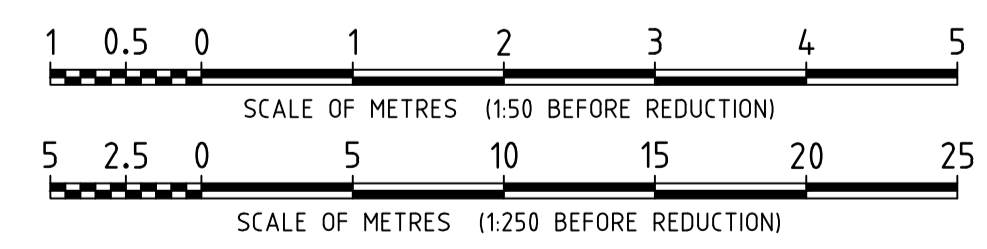
- LEGEND**
- EXISTING**
- × E10.87 EXISTING LEVEL
 - EXISTING LOCAL DRAINAGE
- PROPOSED**
- × 11.00 PROPOSED LEVEL
 - PROPOSED BOLLARD
 - × FL 10.03 100 YEAR ARI FLOOD LEVEL (m AHD)
 - FFL 10.69 FINISHED FLOOR LEVEL
 - APPROXIMATE AREA OF REGRADE
 - PROPOSED HIGH CAPACITY GRATE
 - PROPOSED STORMWATER PIPE
 - PROPOSED FLOOD WALL
 - PROPOSED FLOOD BARRIER/SHUTTER
- SERVICES**
- E — ELECTRICITY
 - G — GAS
 - T — OPTICAL FIBRE
 - O — OPTUS
 - S — SEWER
 - T — TELSTRA
 - W — WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY



SECTION 1
SCALE 1:50

NOTE:
LOCATION AND LEVEL OF ALL SERVICES TO BE CONFIRMED ON SITE

NOTE:
ALL PEDESTRIAN ACCESS POINTS AND OPENINGS TO THE CARPARK ADJACENT TO OVERLAND FLOW PATHS AND DRAINAGE PITS LOCATED IN THE CARPARK ARE TO BE PROTECTED FROM FLOOD WATER INUNDATION AND MUST BE WATER TIGHT TO ACHIEVE MINIMUM 300mm FREEBOARD TO THE PROPOSED FLOOD LEVELS. DRAINAGE PITS IN THE CARPARK MAY REQUIRE ONE-WAY VALVES TO PREVENT CARPARK FLOOD INUNDATION DUE TO BACKWATER AFFECTS TO THE INTER-CONNECTED STORMWATER DRAINAGE SYSTEM UNDERNEATH WARRINGAH MALL.



Rev	Date	Description	Drawn	Appr.
4	31/03/2015	COUNCIL COMMENTS ADDED	JP	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



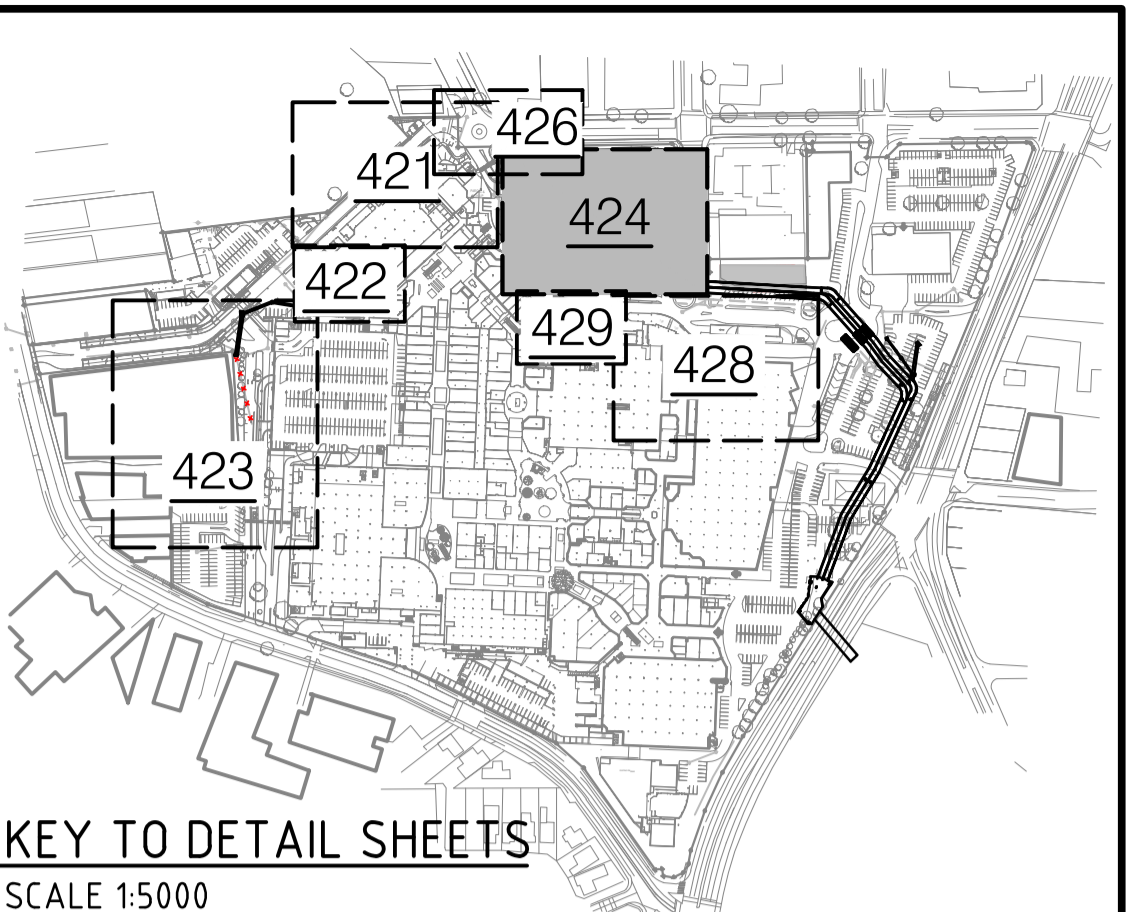
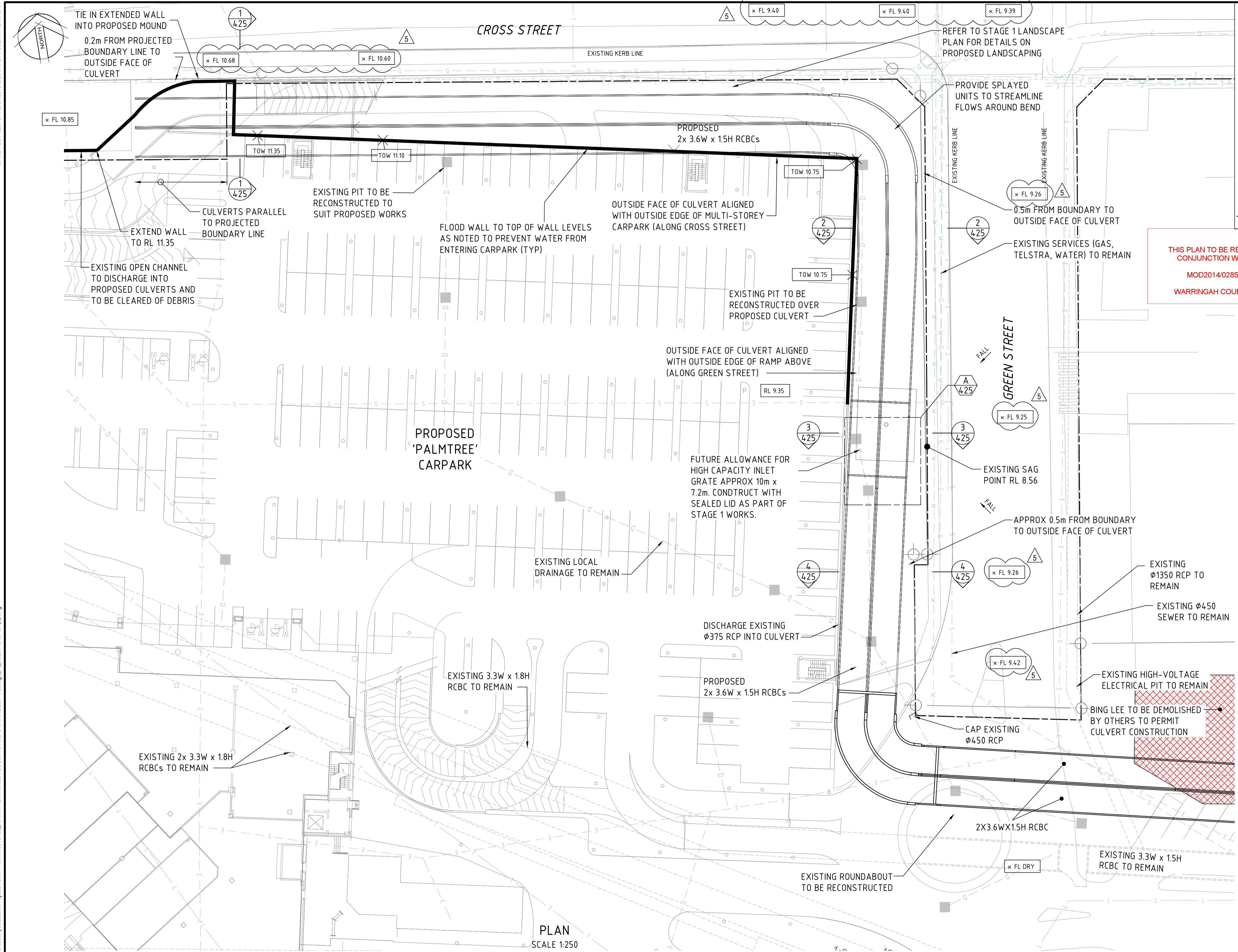
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Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS

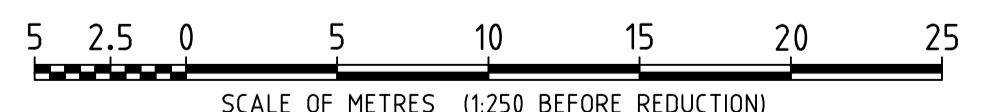
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Scale	AS SHOWN	Size	A1	
Drawing Number	W4548-423		Revision	4



THIS PLAN TO BE READ IN CONJUNCTION WITH MOD2014/0285 WARRINGAH COUNCIL

- ### LEGEND
- EXISTING**
- EXISTING CULVERTS
 - EXISTING LOCAL DRAINAGE
 - EXISTING TREES
- PROPOSED**
- CULVERTS
 - HIGH CAPACITY GRATE
 - LANDSCAPING
 - BUILDING TO BE DEMOLISHED
- SERVICES**
- ELECTRICITY
 - GAS
 - OPTICAL FIBRE
 - OPTUS
 - SEWER
 - TELSTRA
 - WATER
- LEVELS**
- TOP OF WALL LEVEL
 - 100 YEAR ARI FLOOD LEVEL (m AHD)

- ### NOTES:
1. ALL SERVICE LOCATIONS ARE INDICATIVE ONLY
 2. FL DRY - EXISTING SURFACE LEVEL IS ABOVE THE 100 YEAR ARI FLOOD LEVEL.



PLAN SCALE 1:250

Rev	Date	Description	Drawn	Appr.
5	31/3/2015	COUNCIL COMMENTS ADDED	JP	DNA
4	7/11/2014	BING LEE, HCF & GODFATHERS NOTE ADDED	LLC	DNA
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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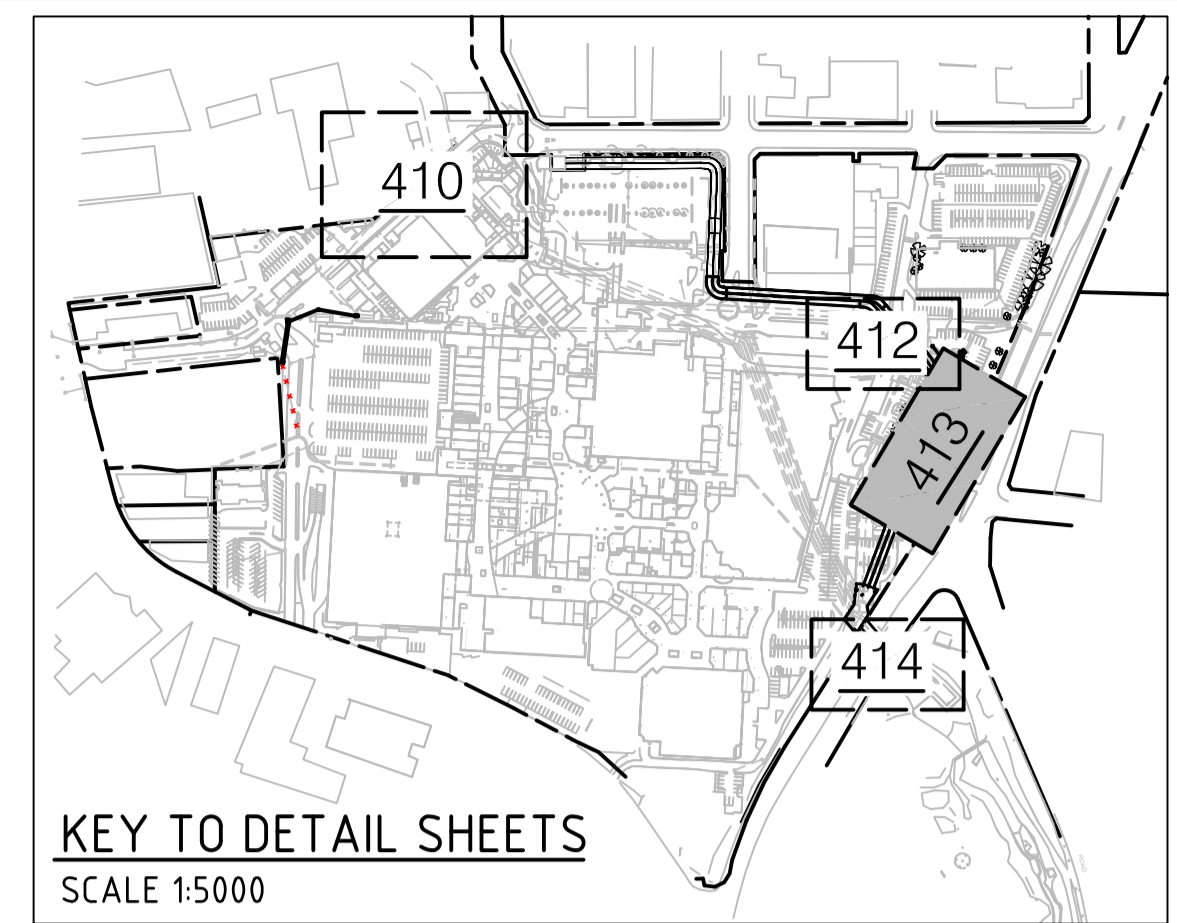
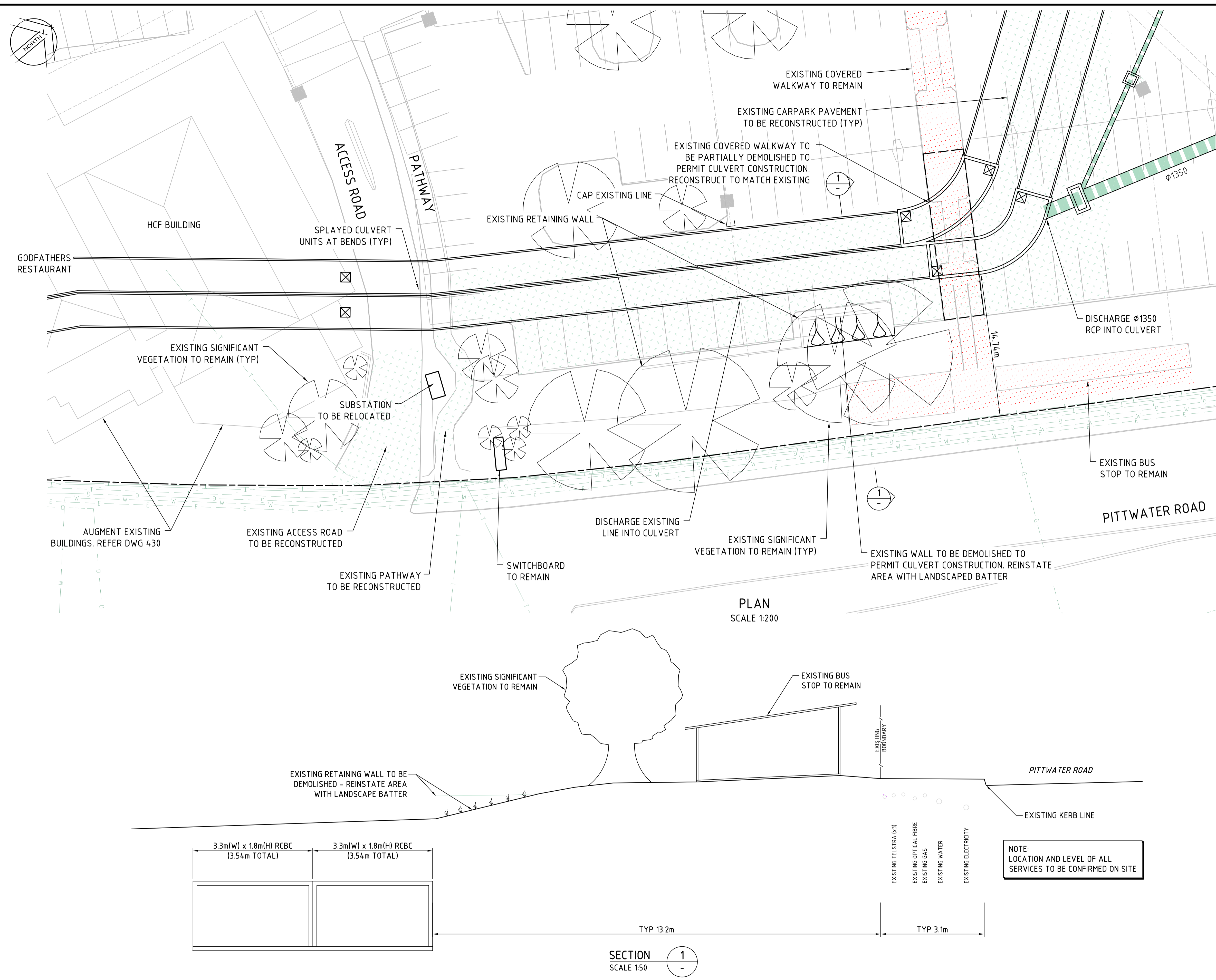


Drawn	DH	Date	18/11/2013
Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client **WESTFIELD DESIGN & CONSTRUCTION**
WARRINGAH MALL
CONCEPT DRAINAGE AUGMENTATION WORKS
DETAIL ARRANGEMENT PLAN
CROSS AND GREEN STREETS

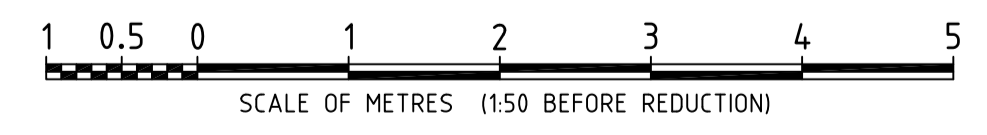
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 XREFs: X:Services; X:Architect; X:Drainage; X:Survey; X:GRP-A1-SHT; X:SYD-A1-Logo
 CAD FILE: N:\Projects\499\FY13\NA09\13132_WARRINGAH MALL_FLOODING AND DRAINAGE\01+Package_1_Data\A1.dwg



- LEGEND**
- BOUNDARY
 - PROPOSED CULVERTS
 - APPROXIMATE AREA OF RECONSTRUCTION
 - EXISTING BUS STOP AND COVERED WALKWAY
- SERVICES**
- E ELECTRICITY
 - HV HIGH VOLTAGE ELECTRICITY
 - G GAS
 - T OPTICAL FIBRE
 - O OPTUS
 - S SEWER
 - T TELSTRA
 - W WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY

THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL



Rev	Date	Description	Drawn	Appr.
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



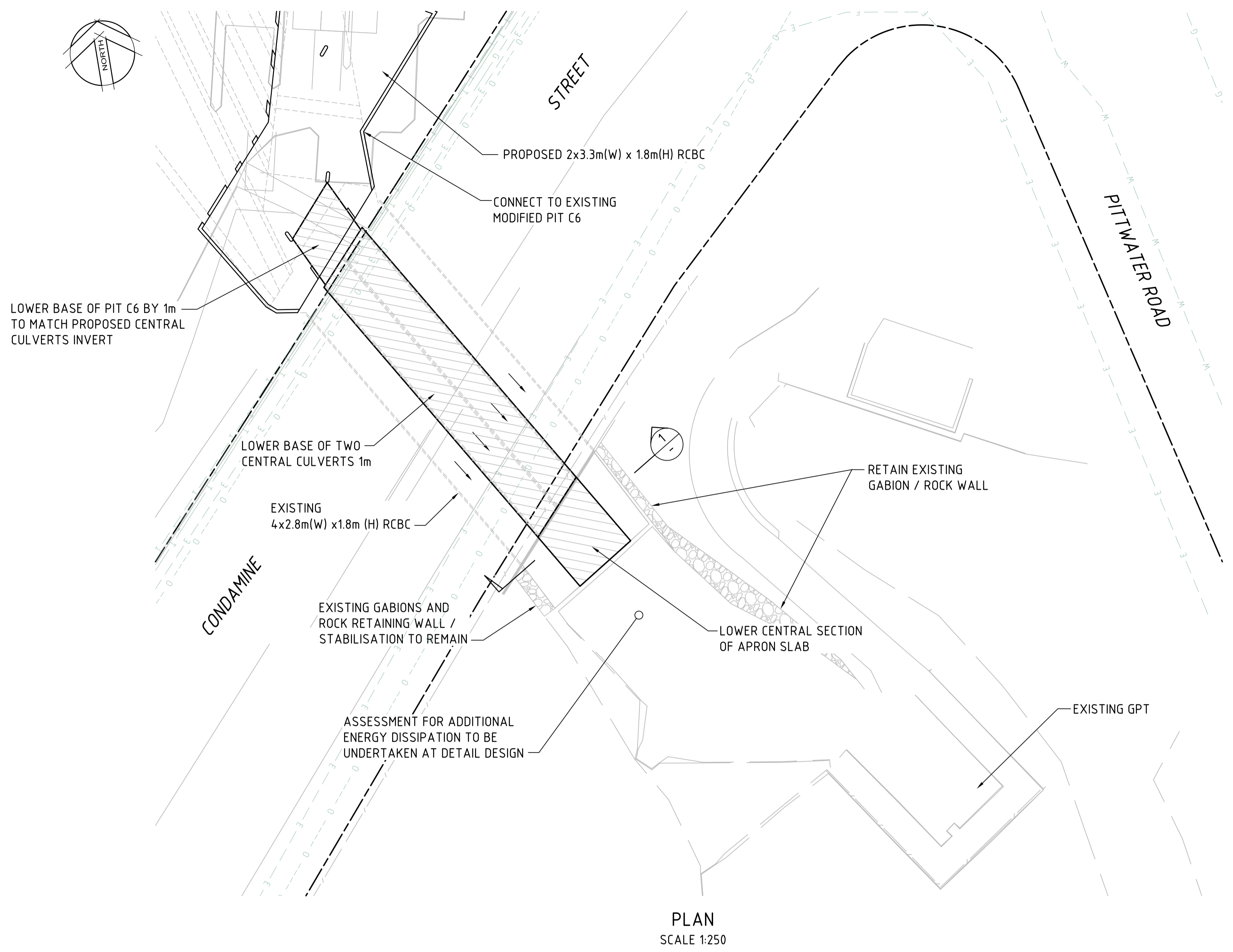
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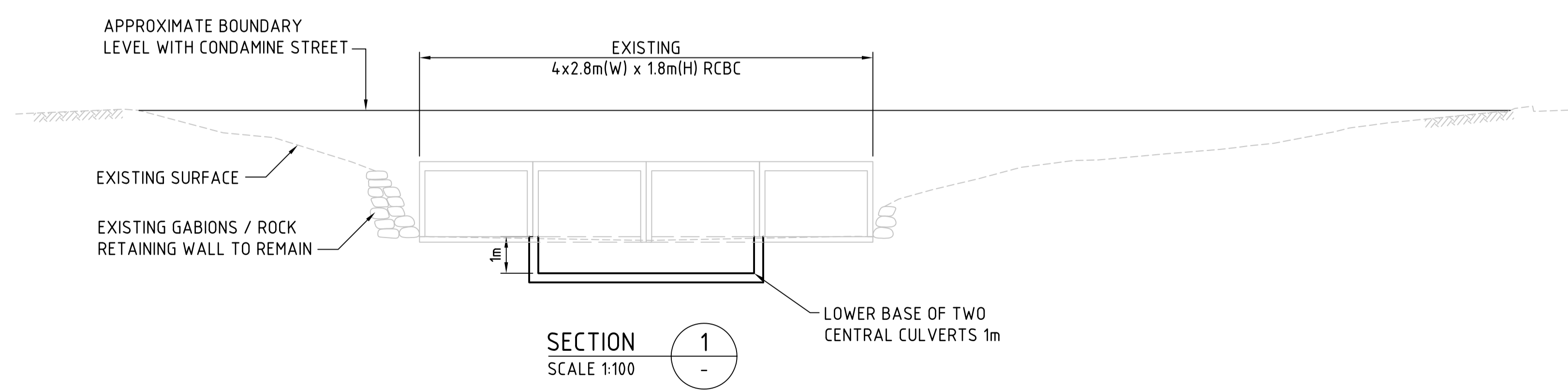
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Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client WESTFIELD DESIGN & CONSTRUCTION
WARRINGAH MALL CONCEPT DRAINAGE AUGMENTATION WORKS
DETAIL ARRANGEMENT PLAN PITTWATER ROAD

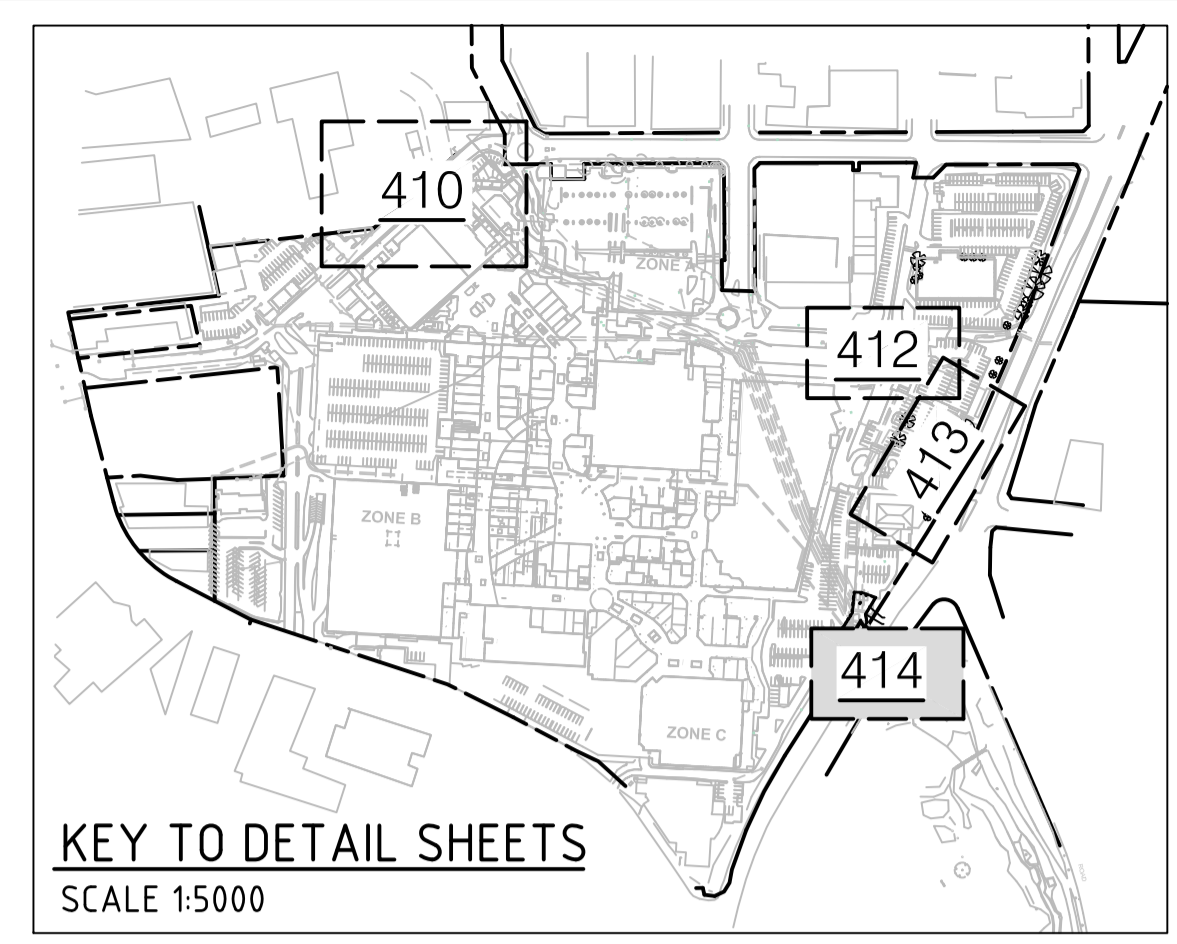
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Drawing Number			Revision
W4548-413			3



PLAN
SCALE 1:250



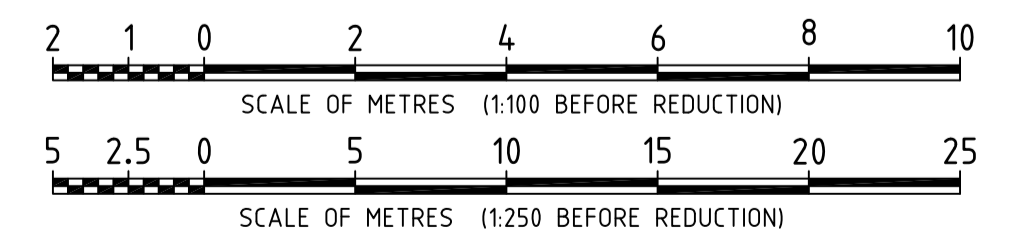
SECTION 1
SCALE 1:100



KEY TO DETAIL SHEETS
SCALE 1:5000

THIS PLAN TO BE READ IN CONJUNCTION WITH
 MOD2014/0285
 WARRINGAH COUNCIL

- LEGEND**
- EXISTING**
- EXISTING APRON
 - EXISTING ROCK WALL
 - EXISTING CULVERTS
 - BOUNDARY
- PROPOSED**
- PROPOSED APRON
 - PROPOSED ROCK WALL
 - PROPOSED ACCESS TRACK
 - PROPOSED CULVERTS
- SERVICES**
- ELECTRICITY
 - GAS
 - OPTICAL FIBRE
 - OPTUS
 - SEWER
 - TELSTRA
 - WATER
- NOTE: ALL SERVICE LOCATIONS ARE INDICATIVE ONLY



Rev	Date	Description	Drawn	Appr.
3	5/11/2014	FLOOD BARRIERS UPDATED	LLC	DNA
2	30/07/2014	CULVERT AMENDED THROUGH BING LEE	DH	DNA
1	20/11/2013	PRELIMINARY	DH	DNA



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Checked	DNA	Date	18/11/2013
Designed	DNA	Date	18/11/2013
Verified		Date	
Approved		Date	

Client: **WESTFIELD DESIGN & CONSTRUCTION**
 WARRINGAH MALL
 CONCEPT DRAINAGE AUGMENTATION WORKS
 DETAIL ARRANGEMENT PLAN
 CONDIMINE STREET GPT

Status: PRELIMINARY			
Date	Datum	Scale	Size
18/11/2013	AHD	AS SHOWN	A1
Drawing Number: W4548-414			Revision: 3