



WATERLOO METRO QUARTER OVERSTATION DEVELOPMENT

Environmental Impact Statement Appendix O – Stormwater Management Strategy and Flood Impact Assessment

SSD-10441 Concept DA Modification

State Significant Development, Development Application

Prepared for **WL Developer Pty Ltd** 30 September 2020





Reference	Description	
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1. Glossary and abbreviations

Reference	Description
ACHAR	Aboriginal Cultural Heritage Assessment Report
ADG	Apartment Design Guide
AHD	Australian height datum
AQIA	Air Quality Impact Assessment
AR&R	Australian Rainfall & Runoff
BC Act	Biodiversity Conservation Act 2016
BCA	Building Code of Australia
BC Reg	Biodiversity Conservation Regulation 2017
BDAR	Biodiversity Development Assessment Report
CEEC	critically endangered ecological community
CIV	capital investment value
CMP	Construction Management Plan
Concept DA	A concept DA is a staged application often referred to as a 'Stage 1' DA. The subject application constitutes a detailed subsequent stage application to an approved concept DA (SSD 9393) lodged under section 4.22 of the EP&A Act.
Council	City of Sydney Council
CPTED	Crime Prevention Through Environmental Design
CSSI approval	critical State significant infrastructure approval
CTMP	Construction Traffic Management Plan
DA	development application
DPIE	NSW Department of Planning, Industry and Environment
DRP	Design Review Panel
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	NSW Environment Protection Authority
EPA Regulation	Environmental Planning and Assessment Regulation 2000





Reference	Description
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
ESD	ecologically sustainable design
GANSW	NSW Government Architect's Office
GFA	gross floor area
HIA	Heritage Impact Assessment
IAP	Interchange Access Plan
IFD	Intensity-Frequency-Duration
LGA	Local Government Area
NCC	National Construction Code
OSD	over station development / On Site Detention
PIR	Preferred Infrastructure Report
POM	Plan of Management
PSD	Permissible Site Discharge
PSI	Preliminary Site Investigation
RMS	Roads and Maritime Services
SEARs	Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SEPP 55	State Environmental Planning Policy No 55—Remediation of Land
SEPP 65	State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development
SRD SEPP	State Environmental Planning Policy (State and Regional Development) 2009
SREP Sydney Harbour	State Regional Environmental Plan (Sydney Harbour Catchment) 2005
SSD	State significant development
SSD DA	State significant development application
SLEP	Sydney Local Environmental Plan 2012





Reference	Description
Transport for NSW	Transport for New South Wales
TIA	Traffic Impact Assessment
The proposal	The proposed development which is the subject of the detailed SSD DA
The site	The site which is the subject of the detailed SSD DA
VIA	Visual Impact Assessment
WMQ	Waterloo Metro Quarter
WMP	Waste Management Plan
WSUD	water sensitive urban design





2. Executive summary

This report has been prepared by WSP to accompany a concept State significant development (SSD) development application (DA) for the Waterloo Metro Quarter over station development (OSD). This concept SSD DA is submitted as an 'amending DA', that modifies the previously approved concept SSD DA issued for the site (SSD 9393). The modifications contained within the amending DA relate to the northern precinct and central building only. No change is proposed to the original concept SSD DA as it relates to the southern precinct of the Waterloo Metro Quarter site.

This report has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued for the amending concept SSD DA (SSD 10441).

This report concludes that the proposed amending concept DA for the Waterloo Metro Quarter OSD is suitable and warrants approval subject to the implementation of the following mitigation measures:

- Ensuring the safe and sustainable management of the quantity and quality of stormwater discharge from the site
- Address the design requirements of various stakeholders to protect the community by ensuring the development does not adversely impact on existing infrastructure.

Following implementation of the above mitigation measures, the remaining impacts are appropriate.





3. Introduction

This report has been prepared to accompany a concept SSD DA for the over station development (OSD) at the Waterloo Metro Quarter site. The concept DA seeks consent for an amended building envelope and description of development for the northern precinct and central building of the Waterloo Quarter site approved under SSD 9393. For clarity, this concept DA (formerly referred to as a 'Stage 1' DA) is made under Section 4.22 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

The Minister for Planning, or their delegate, is the consent authority for the SSD DA and this application is lodged with the NSW Department of Planning, Industry and Environment (DPIE) for assessment.

The concept DA seeks to modify the approved building envelope for the northern precinct (previously comprising 'Building A', 'Building B', 'Building C' and 'Building D' under SSD 9393) through:

- increasing the maximum building height for the southern portion of the building envelope from RL56.2 to RL72.60
- removing the 'tower component' of the northern precinct, reducing the overall height of the tower envelope from RL116.9 to RL90.40, to enable the redistribution of floor space to commercial office floor plates
- amending the description of development to refer to a mid-rise (approximately 17 storey) commercial office building, comprising approximately 34,125sqm of commercial office floor space within the northern portion of the site, rather than a third residential tower.

The concept DA seeks to modify the central building approved building envelope (previously comprising 'Building E' under SSD 9393) through:

modifying the eastern extent of the podium envelope.

This proposal will not exceed the permissible building height for the site under the Sydney Local Environmental Plan 2012 (SLEP) or the maximum height approved under SSD 9393. Separate detailed SSD DA (s) will be lodged concurrently for the detailed design, construction and operation of the northern precinct and central building. No changes are proposed to the original concept DA as it relates to the southern precinct.

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 9 April 2020 and issued for the detailed SSD DA. Specifically, this report has been prepared to respond to the SEARs requirements summarised below.





Item	Description of Requirement	Section Reference (this report)
16	The EIS shall: - Include a stormwater management strategy that considers the relevant local council stormwater management policy, including details of onsite stormwater capture, storage and re-use measures developed for the site	7.1 and 8.1.4

Table 1 - SEARs Requirements

This report has also been prepared in response to the following conditions of consent issued for the concept SSD DA (SSD 9393) for the OSD as summarised in the table below.

Item	Description of requirement	Section reference (this report)
B26	The Concept Conditions of Consent state: Future development applications shall be accompanied by a Flood and Stormwater Impact Assessment. The Assessment must demonstrate the conclusions and recommendations of the Concept Water Quality, Flooding and Stormwater Report dated 31 October 2018 prepared by AECOM.	Stormwater: 7.1 and 8.1.5
3S	The objectives of the Waterloo Metro Quarter Design and Amenity Guidelines (March 2020) are: • To improve quality and reduce stormwater runoff	Stormwater: 7.1 and 8.1.6

Table 2 - Conditions of Concept Approval





4. The site

The site is located within the City of Sydney Local Government Area (LGA). The site is situated approximately 3.3 kilometres south of Sydney CBD and approximately 8 kilometres northeast of Sydney International Airport within the suburb of Waterloo.

The Waterloo Metro Quarter site comprises land to the west of Cope Street, east of Botany Road, south of Raglan Street and north of Wellington Street (refer to Figure 1). The heritage listed Waterloo Congregational Church located at 103–105 Botany Road is within this street block but does not form a part of the Waterloo Metro Quarter Site boundaries.

The Waterloo Metro Quarter site (the site) is a rectangular shaped allotment and an overall site area of approximately 1.287 hectares.

The Waterloo Metro Quarter site comprises the following allotments and legal description at the date of this report. Following consolidation by Sydney Metro (the Principal) the land will be set out in deposited plan DP1257150.

- 1368 Raglan Street (Lot 4 DP 215751)
- 59 Botany Road (Lot 5 DP 215751)
- 65 Botany Road (Lot 1 DP 814205)
- 67 Botany Road (Lot 1 DP 228641)
- 124–128 Cope Street (Lot 2 DP 228641)
- 69–83 Botany Road (Lot 1, DP 1084919)
- 130–134 Cope Street (Lot 12 DP 399757)
- 136–144 Cope Street (Lots A-E DP 108312)
- 85 Botany Road (Lot 1 DP 27454)
- 87 Botany Road (Lot 2 DP 27454)
- 89–91 Botany Road (Lot 1 DP 996765)
- 93–101 Botany Road (Lot 1 DP 433969 and Lot 1 DP 738891)
- 119 Botany Road (Lot 1 DP 205942 and Lot 1 DP 436831)
- 156–160 Cope Street (Lot 31 DP 805384)
- 107–117A Botany Road (Lot 32 DP 805384 and Lot A DP 408116)
- 170–174 Cope Street (Lot 2 DP 205942).

The boundaries of the site the subject of the amending concept DA is identified at Figure 5.1. The site is reasonably flat with a slight fall to the south.

The site previously included three to five storey commercial, light industrial and shop top housing buildings. All previous structures except for an office building at the corner of Botany Road and Wellington Street have been demolished to facilitate construction of the new Sydney Metro Waterloo station. As such the existing site is predominately vacant and being used as a construction site.





Construction of the Sydney metro is currently underway on site in accordance with critical State significant infrastructure approval (CSSI 7400).



Figure 1 - Aerial of the site Source: Urbis

The area surrounding the site consists of commercial premises to the north, light industrial and mixed-use development to the south, residential development to the east and predominantly commercial and light industry uses to the west.





5. Background

5.1 About Sydney Metro

Sydney metro is Australia's biggest public transport project. Services started in May 2019 in the city's North-west with a train every four minutes in the peak. A new standalone railway, this 21st century network will revolutionise the way Sydney travels. There are four core components:

5.1.1 Sydney Metro North West

This project is now complete and passenger services commenced in May 2019 between Rouse Hill and Chatswood, with a metro train every four minutes in the peak. The project was delivered on time and \$1 billion under budget.

5.1.2 Sydney Metro City & Southwest

Sydney Metro City & Southwest project includes a new 30km metro line extending metro rail from the end of Metro Northwest at Chatswood, under Sydney Harbour, through new CBD stations and southwest to Bankstown. It is due to open in 2024 with the ultimate capacity to run a metro train every two minutes each way through the centre of Sydney.

Sydney Metro City & Southwest will deliver new metro stations at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street, Waterloo and new underground metro platforms at Central Station. In addition, it will upgrade and convert all 11 stations between Sydenham and Bankstown to metro standards.

5.1.3 Sydney Metro West

Sydney Metro West is a new underground railway connecting Greater Parramatta and the Sydney CBD. This once-in-a-century infrastructure investment will transform Sydney for generations to come, doubling rail capacity between these two areas, linking new communities to rail services and supporting employment growth and housing supply between the two CBDs.

The locations of seven proposed metro stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock and The Bays.

The NSW Government is assessing an optional station at Pyrmont and further planning is underway to determine the location of a new metro station in the Sydney CBD.

5.1.4 Sydney Metro Greater West

Metro rail will also service Greater Western Sydney and the new Western Sydney International (Nancy Bird Walton) Airport. The new railway line will become the transport spine for the Western Parkland City's growth for generations to come, connecting communities and travellers with the rest of Sydney's public transport system with a fast, safe and easy metro service. The Australian and NSW governments are equal partners in the delivery of this new railway.

The Sydney Metro project is illustrated in Figure 2.





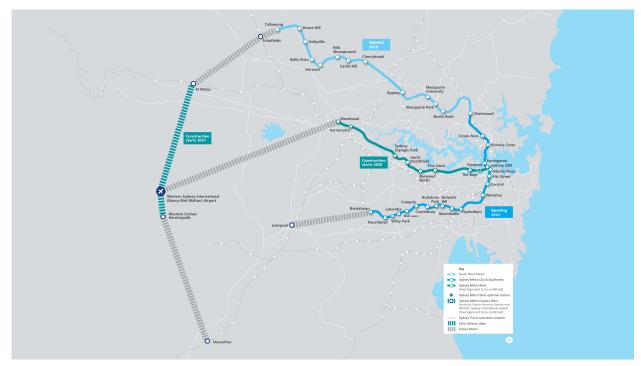


Figure 2 - Sydney Metro alignment map Source: Sydney Metro

5.2 Sydney Metro CSSI Approval (SSI 7400)

On 9 January 2017, the Minister for Planning approved the Sydney Metro City & Southwest - Chatswood to Sydenham project as a critical State significant infrastructure (CSSI) project (reference SSI 7400) (CSSI approval). The terms of the CSSI approval includes all works required to construct the Sydney Metro Waterloo Station. The CSSI approval also includes the construction of below and above ground works within the metro station structure for appropriate integration with the OSD.

With regards to CSSI related works, any changes to the 'metro station box' envelope and public domain will be pursued in satisfaction of the CSSI conditions of approval and do not form part of the scope of the concept SSD DA or detailed SSD DA for the OSD.

Except to the extent described in the EIS or Preferred Infrastructure Report (PIR) submitted with the CSSI application, any OSD buildings and uses do not form part of the CSSI approval and will be subject to the relevant assessment pathway prescribed by the EP&A Act.

The delineation between the approved Sydney metro works, generally described as within the two 'metro station boxes' and surrounding public domain works, and the OSD elements are illustrated in Figure 3.





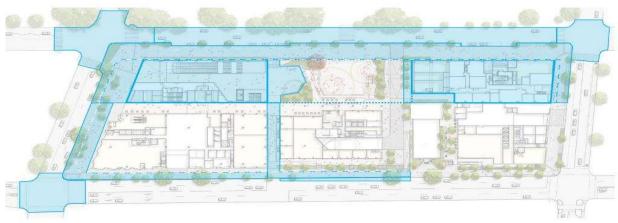


Figure 3 - CSSI Approval scope of works Source: WL Developer Pty Ltd

5.3 Concept Approval (SSD 9393)

As per the requirements of clause 7.20 of the *Sydney Local Environmental Plan 2012* (SLEP), as the OSD exceeds a height of 25 metres above ground level (among other triggers), development consent is first required to be issued in a concept DA (formerly known as Stage 1 DA).

Development consent was granted on 10 December 2019 for the concept SSD DA (SSD 9393) for the Waterloo Metro Quarter OSD including:

- a maximum building envelope for podium, mid-rise and tower buildings
- a maximum gross floor area of 68,750sqm, excluding station floor space
- conceptual land use for non-residential and residential floor space
- minimum 12,000sqm of non-residential gross floor area including a minimum of 2,000sqm of community facilities
- minimum 5% residential gross floor area as affordable housing dwellings
- 70 social housing dwellings
- basement car parking, motorcycle parking, bicycle parking, and service vehicle spaces.

This concept DA has been prepared and submitted to the DPIE and proposes to make modifications to the approved building envelopes at the northern precinct and central building. This amending concept SSD DA does not impact the proposed development within the southern precinct.

A concurrent detailed SSD DA will seek development consent for the OSD located within the southern precinct of the site, consistent with the parameters of the original concept approval. Separate SSD DAs have been prepared and will be submitted for the northern precinct, central building, and basement proposed across the Waterloo Metro Quarter site consistent with the amending concept DA.





6. Proposed development

The amending concept DA seeks consent for an amended building envelope and description of development for the northern precinct of the Waterloo Metro Quarter site approved under SSD 9393. Specifically, the proposal seeks to modify the approved building envelope for the northern precinct (previously comprising 'Building A', 'Building B', 'Building C' and 'Building D' under SSD 9393) through:

- increasing the maximum building height for the southern portion of the Northern Precinct from RL56.2 to RL72.60
- removing the 'tower component' of the Northern Precinct, reducing the overall height of the tower envelope from RL116.9 to RL90.40, to enable the redistribution of floor space to commercial office floor plates
- amending the description of development to refer to a mid-rise (approximately 17 storey) commercial office building, comprising approximately 34,125sqm of commercial office floor space within the northern portion of the site, rather than a third residential tower.

The concept DA seeks to modify the central building approved building envelope (previously comprising 'Building E' under SSD 9393) through:

modifying the eastern extent of the podium envelope.

The modification of the approved concept SSD DA will enable the detailed design of a new commercial building (comprising office and retail premises) to be pursued on the site, significantly increasing the proportion of employment generating floor space on the Waterloo Metro Quarter site. This new commercial building is proposed in replacement of four building envelopes approved under SSD 9393, which comprised one residential tower, and three mid-rise residential buildings.

This proposal will not exceed the permissible building height for the site under the SLEP or the maximum height approved under SSD 9393. As noted above, separate detailed SSD DA(s) will be lodged concurrently for the detailed design, construction and operation of the northern precinct, and central building.

This amending concept DA does not propose to the amend the original concept approval as it relates to the southern precinct.





7. Methodology

The methodology for undertaking the stormwater management for the site was as per the following process:

- reviewing the Sydney Water Permissible Site Discharge (PSD) requirements,
- reviewing the catchment areas for the overall Waterloo Metro Quarter development site,
- undertaking hydrology and hydraulic analysis for the site established using a DRAINS (computer program for hydrological and hydraulic assessment) model

7.1 Design Requirements

The objective of this report is to demonstrate the stormwater management strategy necessary to comply with the requirements of the SEARs requirements, the relevant conditions of consent issued for the concept SSD DA and the Waterloo Design and Amenity Guidelines issued in March 2020.

The SEARS requirements Section 16 in relation to Stormwater and Flood Impact state that the EIS shall:

Include a stormwater management strategy that considers the relevant local council stormwater management policy, including details of onsite stormwater capture, storage and re-use measures developed for the site.

In accordance with the SEARS requirements, the stormwater management report is to consider relevant local council stormwater management policy, in this case the City of Sydney and Sydney Water. The objectives are as follows:

- to provide a stormwater management strategy for the site to support the proposed Development Application,
- to provide a "Concept Stormwater Management Plan" for the proposed site,
- to evaluate the on-site detention system requirements for the site (in accordance with Council requirements),
- to provide a water quality strategy to control the water quality of stormwater leaving the site (in accordance with Councils requirements),
- to provide a Concept Sediment and Erosion Control Plan for the site which needs to be maintained during construction, and
- to interpret Council's flooding advice and apply it to the proposed development.

The proposed stormwater drainage and runoff systems for the development will need to comply with the design requirements for City of Sydney Development Control Plan (DCP) 2012 and Sydney Water. These requirements are:

- Post development stormwater runoff connections into existing drainage infrastructure will match pre-development case for both 20 and 100 year ARI storm events,
- Compliance with Sydney Water maximum Permissible Site Discharge (PSD) requirements of 503L/s for the entire site.





- Compliance with Sydney Water minimum On Site Detention (OSD) requirements of 208 m³ for the entire site,
- On-site detention is to be situated above the 100 year ARI flood levels to freely discharge into the stormwater network even under flooding conditions (up to 100 year ARI flood events), and
- Stormwater quantity management shall satisfy Sydney Water and City of Sydney requirements at each stage of the development.

The condition of consent issued for the concept SSD DA (SSD 93939) number B26 in relation to flooding and stormwater assessment states that:

Future development applications shall be accompanied by a Flood and Stormwater Impact Assessment. The Assessment must demonstrate the conclusions and recommendations of the Concept Water Quality, Flooding and Stormwater Report dated 31 October 2018 prepared by AECOM.

In accordance with the condition of consent requirements, this stormwater management report is to address the conclusions and recommendations of the AECOM report. Table 13 of the AECOM report outlines the recommended DCP provisions which are:

- On-Site Detention: Combined OSD tank volume of 480 m³
- Water Quality Targets and WSUD
 - Reduction of baseline annual pollutant load for litter and vegetation larger than 5mm by 90%;
 - Reduction of baseline annual pollutant load for total suspended solids by 85%;
 - o Reduction of baseline annual pollutant load for total phosphorous by 65%; and
 - o Reduction of baseline annual pollutant load for total nitrogen by 45%.

This report addresses the underlying design requirements behind the OSD tank volume which are (refer to section 5.5.1 of the AECOM report for further information):

- Post development stormwater runoff connections into existing drainage infrastructure will match pre-development case;
- Compliance with Sydney Water total Permissible Site Discharge (PSD) requirements of 503L/s (assuming 13,500m2 area) and On Site Detention of 203m³ for the entire site;
- On-Site Detention is to be situated above the 100 year ARI flood levels to facilitate discharge into potentially fully charged stormwater pipes;
- Sizing of On-Site Detention areas, including bypass areas, to be managed based on relevant stage of construction process;
- Management of water quantity to ensure no increase in stormwater discharge rate from the site for the 20 and 100 year ARI storms.

For commentary on how the design requirements of the OSD tank volume have been met refer to section 8.1.3 of this report.





8. Assessment and findings

8.1 Stormwater Quantity Strategy

8.1.1 Sydney Water PSD requirements

The Sydney Water requirements for the entire site were advised during the Stage 1 design in 2016 and were referenced in the AECOM Water Quality, Flooding and Stormwater Report (October 2018). They are as follows:

• On Site Detention 208 cubic meter

• Permissible Site Discharge 503 L/s

At the time the site was assumed to be 13,500 square meters.

Sydney Water also made the following comment:

The approval for the On Site Detention would only be given as part of the Section 73
application for this development. The On Site Detention is to be designed according
to the above values and submitted to Sydney Water for approval with the Section 73
application.

See Appendix 3 for a copy of this correspondence.

8.1.2 Catchment Areas

The catchment areas assumed for the overall Waterloo Metro Quarter development site are as shown in Figure 4 below.



Figure 4 - Overall WMQ Site Catchment Areas

The site areas assumed for the individual sites are as shown in Table 3 below.





	Catchment Number	Bypass Area (SQM)	Captured Area (SQM)	Total Site Area (SQM)
Cope Street Plaza	1	621		
	2*		110	
	3*		385	
	4	135		
Total		756	495	1251
Station	11	664		
	12	171		
Total		835	0	835
Building 1	8		4328	
	9	76		
	10	308		
Total		384	4328	4712
Building 2*	5		635	
	6		1159	
	7	606		
Total		606	1794	2400
Building 3	16	1202		
	17		698	
Total		1202	698	1900
Building 4	13	426		
	14		1157	
	15	52		
Total		478	1157	1635
Total Site Area		4261	8472	12733





*Note that catchment numbers 2 and 3 are proposed to be directed to the OSD and treatment tanks in the Central Precinct

Table 3 - Stormwater Drainage Catchment Areas

8.1.3 Hydraulic Analysis

The hydrology and hydraulic analysis for the site was established using a DRAINS (computer program for hydrological and hydraulic assessment) model. The hydrological parameters used in DRAINS are in accordance with the City of Sydney DCP.

The intensity-frequency-duration (IFD) data for the site was extracted from the AR&R website, and a reproduction of the IFD data is provided in Appendix 2.

The DRAINS model was used to ensure that each individual site meets the required prorata PSD rate and OSD volume, which is as per Table 4 below:

	Permissible Site Discharge (L/S)	On Site Detention Volume (CU.M)	Bypass Flow Discharge (L/S)	Captured Flow Discharge (L/S)
Building 1	186	74	26	152
Building 2	94	78*	41	30
Public Plaza	49	*	51	0
Station	32	*	56	0
Building 3&4	139	56	113	29
Total	500	208	287	211

^{*}The on site detention volume for the Public Plaza and the Station are proposed to be provided within the Building 2 site in the Central Precinct.

Table 4 - On Site Detention and Permissible Site Discharge

The DRAINS model was calibrated to comply with the overall permissible site discharge by restricting discharge from the proposed OSD tanks by means of orifice plates over the outlet pipes. Details of the proposed OSD tanks and orifice plates are provided in Appendix 1. Results of the DRAINS model are provided in Appendix 2.

8.1.4 Planning Secretary's Environmental Assessment Requirements

The SEARS requirements Section 16 in relation to Stormwater and Flood Impact state that the EIS shall:





 Include a stormwater management strategy that considers the relevant local council stormwater management policy, including details of onsite stormwater capture, storage and re-use measures developed for the site.

The stormwater strategy outlined in Section 8 of this report and supported by DRAINS calculations included in Appendix 2 demonstrate that the stormwater management strategy meets the Sydney Water requirements for stormwater discharge from the site and On Site Detention.

8.1.5 Concept Conditions of Consent Requirements

Condition number B26 in relation to flooding and stormwater assessment states that:

 Future development applications shall be accompanied by a Flood and Stormwater Impact Assessment. The Assessment must demonstrate the conclusions and recommendations of the Concept Water Quality, Flooding and Stormwater Report dated 31 October 2018 prepared by AECOM.

The recommended DCP provision which is relevant to stormwater quantity is provided in Table 13 of the AECOM report and recommends that the development provides:

a combined OSD tank volume of 480 m³

The AECOM report does not clarify why the OSD tank volume has increased from the Sydney Water requirement of 208 m³ to 480 m³. It should be noted that the DRAINS model results were not included in the report to verify this number, and Figure 47 which depicts 8 separate OSD tanks across the site discharging to 6 different locations does not match the DRAINS results included in Figure 21 which depicts 2 OSD tanks discharging to 2 different locations.

The AECOM report (Section 6.2) also notes the following key factor which needs to be taken into consideration at the implementation stage:

 The total required On-Site Detention volume is approximately 480m³ split through a number of different catchment zones. Hydraulic calculations at the detailed design development stage will determine the final detention storage volumes, outlets and interfaces.

208m³ of On-Site Detention have been provided in the stormwater management plan to reduce the peak stormwater runoff from the site and meet the Sydney Water Permissible Site Discharge rates.

The DRAINS modelling undertaken at this stage demonstrates that the Sydney Water required OSD volume of 208m³ is sufficient to reduce the overall Permissible Site Discharge to less than the required 503L/s. Therefore the stormwater management plan provided at this stage meets the intention of the Sydney Water discharge requirements.





8.1.6 Waterloo Design and Amenity Guideline Requirements

Section 3S (Stormwater and flooding) of the Waterloo Design and Amenity Guideline Requirements has the following objectives and design criteria which are relevant to stormwater quantity.

Objectives:

- Improve water quality and reduce stormwater runoff
- Manage flooding impacts and provide design responses that are integrated with the public domain and ensure street activation

Design Criteria:

 Provide a total on-site detention volume of approximately 480m³. On-site detention should be situated above the 100 year ARI flood level to facilitate discharge into potentially fully charged stormwater pipes.

As stated in section 8.1.3 above, On-Site Detention has been provided to reduce the peak stormwater runoff from the site and meet the Sydney Water Permissible Site Discharge rates. Refer to section 8.1.3 for details of the On-Site Detention sizing and how the design meets Sydney Water requirements.

The flooding impact of the site is reduced as a result of the On-Site Detention, which reduces the peak stormwater runoff from the site.

8.2 Stormwater Quality Requirements

There is no proposed amendment to the Stormwater Quality strategy – refer to the individual precinct SSD DA reports for details of the strategies.

8.3 Cumulative impacts

The stormwater management for the overall site meets the Sydney Water PSD requirements and provides 208m³ of On-Site Detention. This has the impact of reducing the peak stormwater runoff from the site.





9. Mitigation measures

The stormwater management plan ensures the safe and sustainable management of the quantity and quality of stormwater discharge from the site and address the design requirements of various stakeholders to protect the community by ensuring the development does not adversely impact on existing infrastructure.

It does this by meeting the Sydney Water PSD requirements for the site and providing 208m³ of On-Site Detention. This has the impact of reducing the peak stormwater runoff from the site.





10. Conclusion

The Stormwater drainage management strategy outlined in this report addresses the requirements outlined in the Secretary's Environmental Assessment Requirements, the conditions of consent issued for the concept SSD DA and the Waterloo Design and Amenity Guidelines.

The stormwater drainage management report demonstrates that the strategy meets the objectives of complying with relevant local council stormwater management policy; meets the design criteria of the original Concept Water Quality, Flooding and Stormwater report produced by AECOM; and meets the critical objective of the Waterloo Design and Amenity Guidelines by improving quality and reducing the peak stormwater runoff.





11. Appendices

11.1 Appendix 1 - Civil Engineering Works Drawings

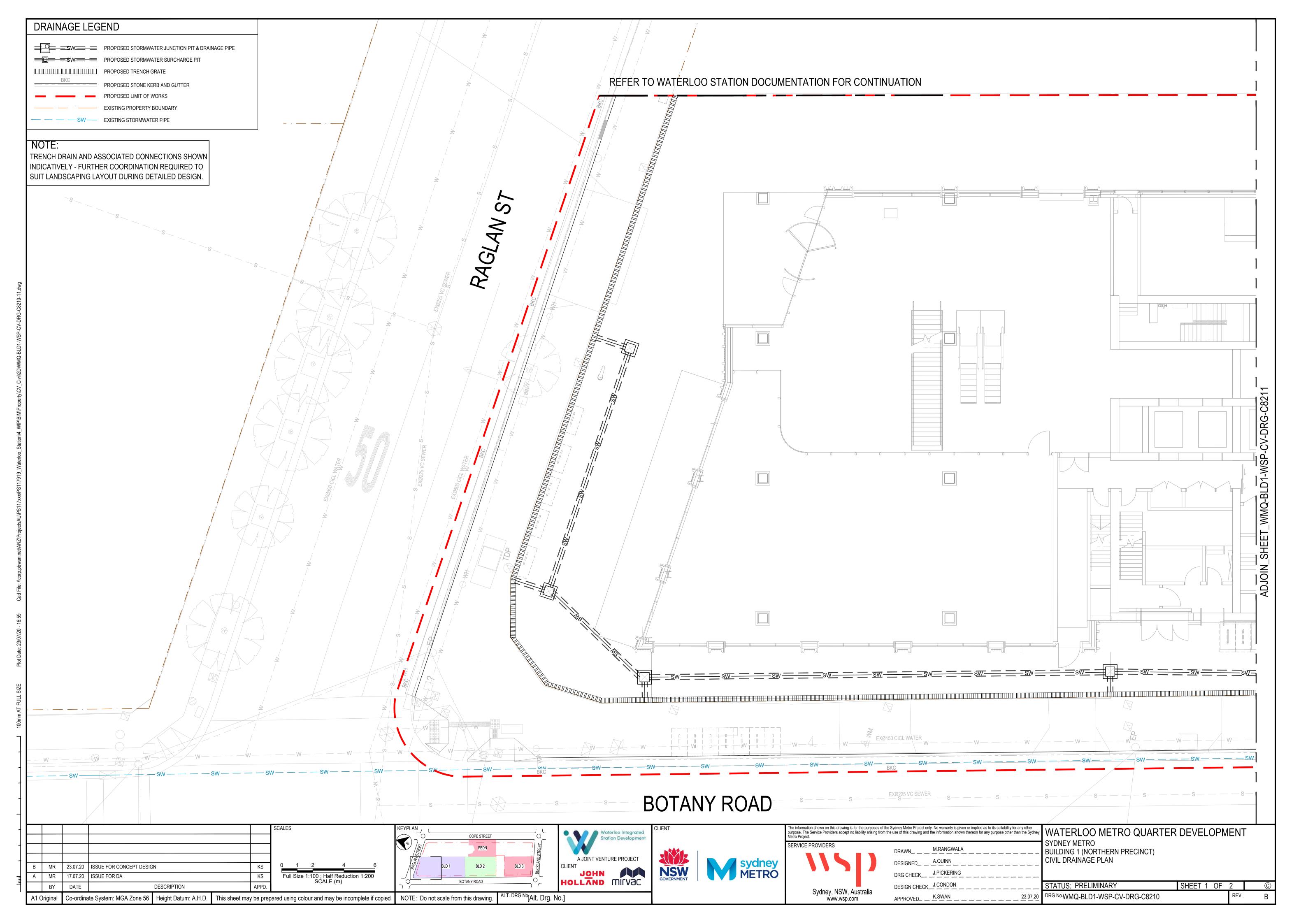
11.2 Appendix 2 - IFD Data and DRAINS Results

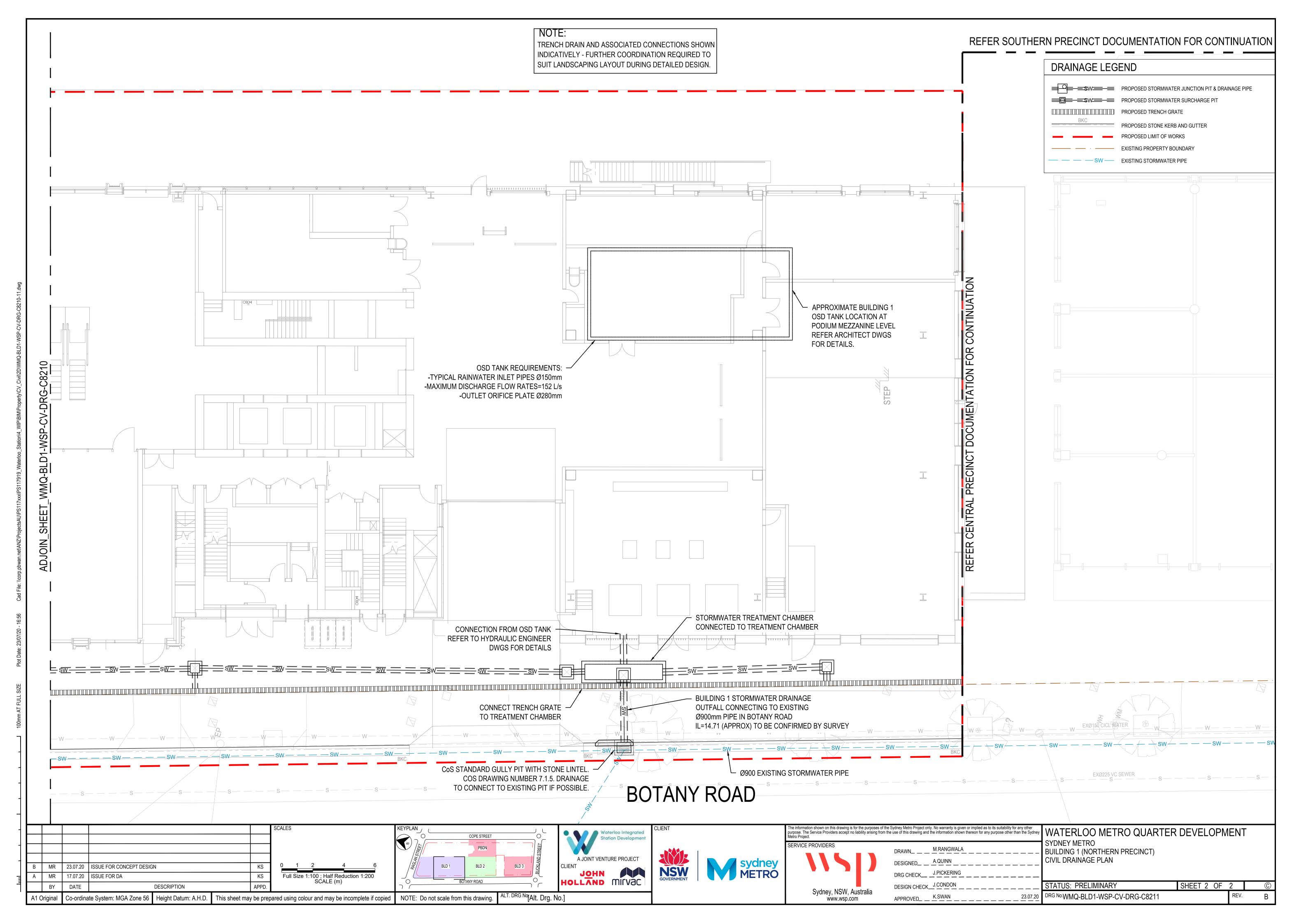
11.3 Appendix 3 – Sydney Water Advice

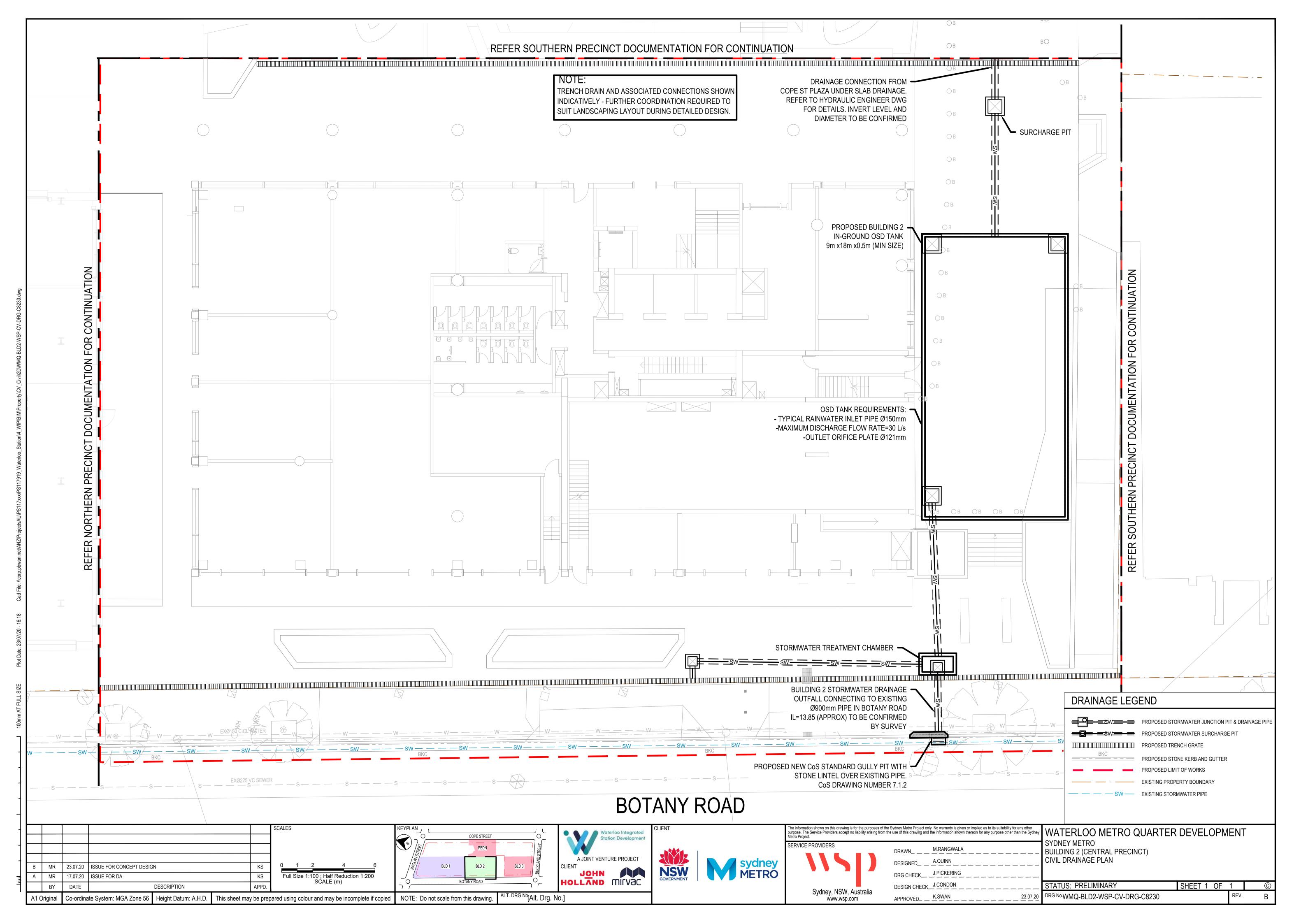


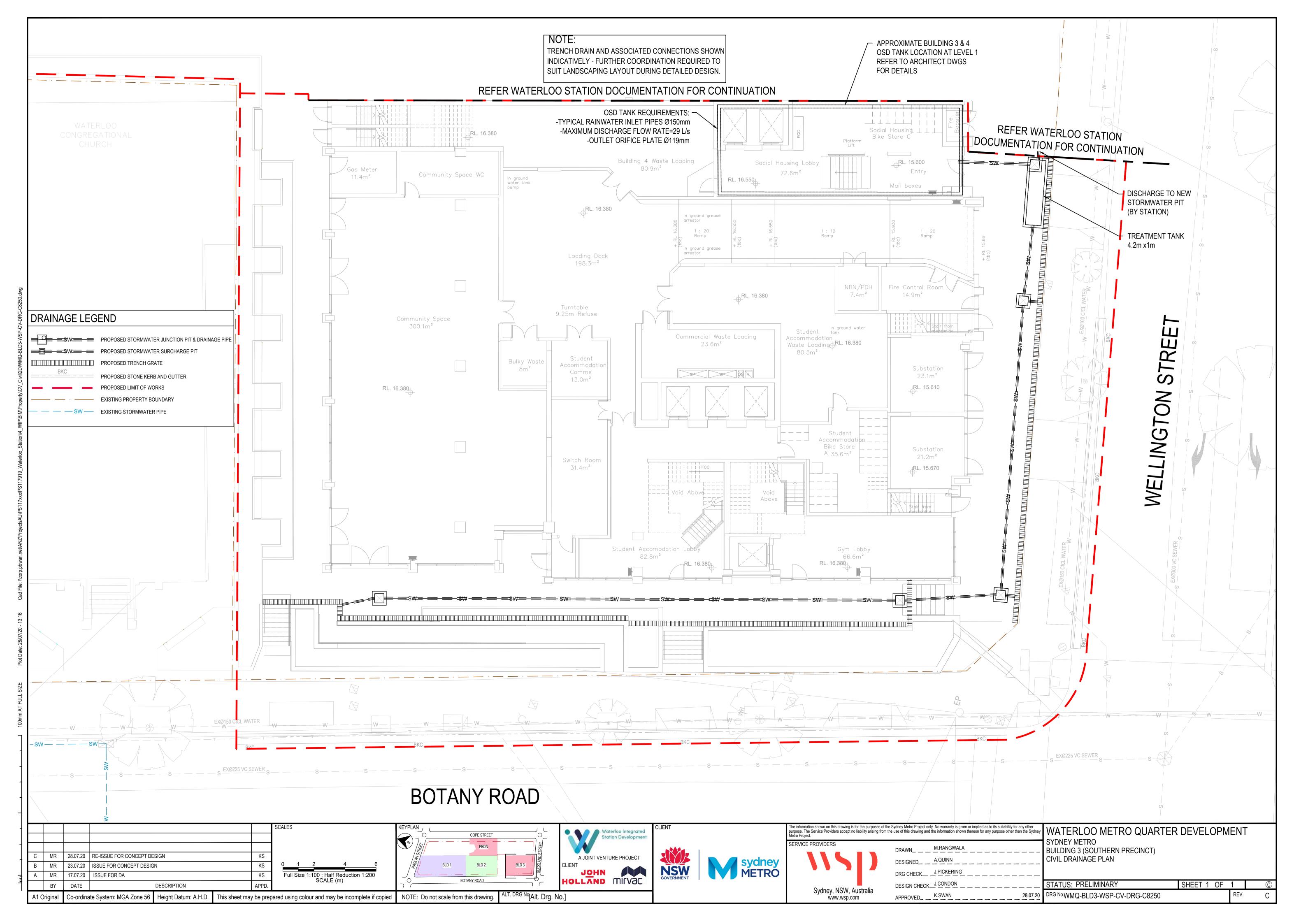


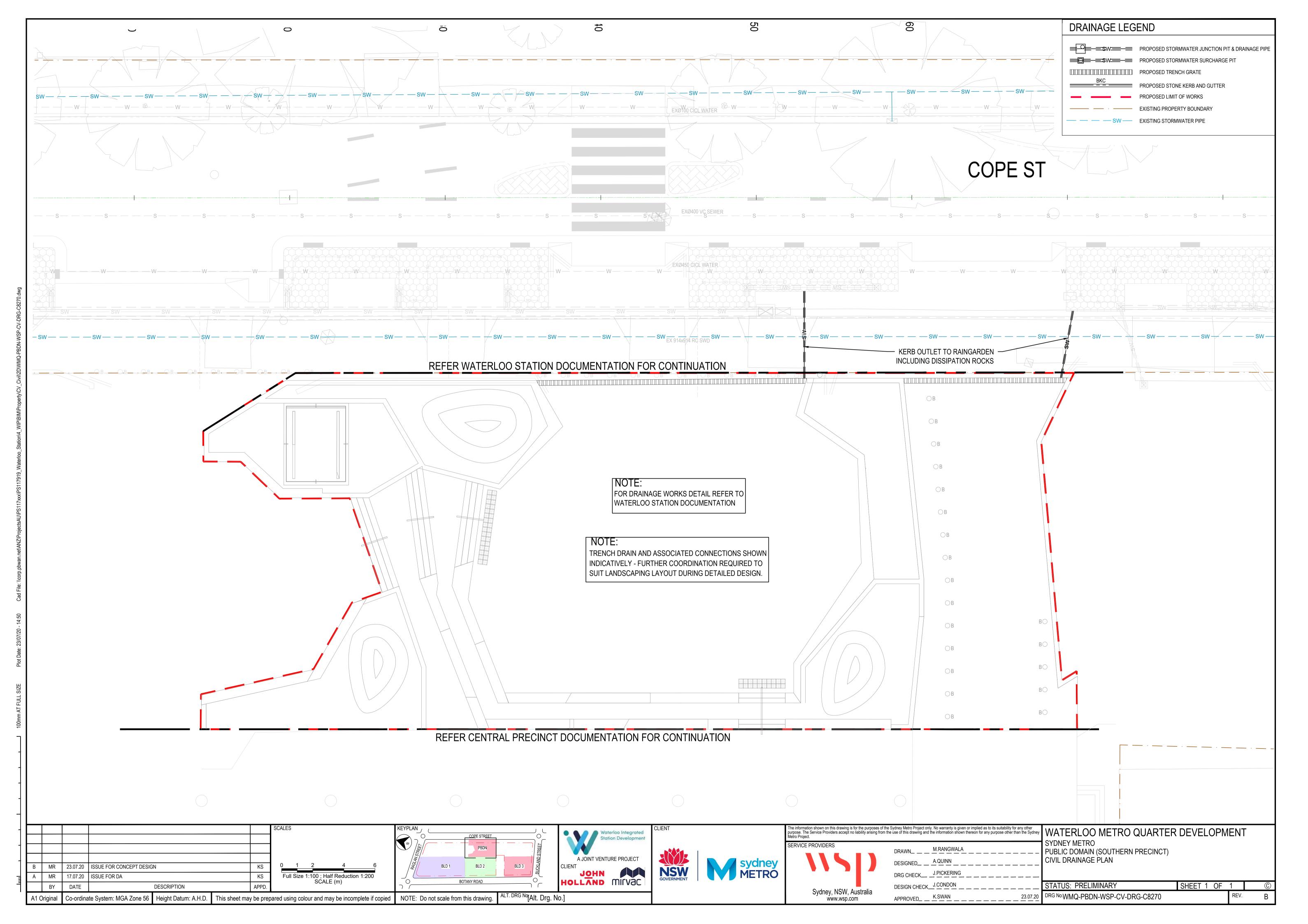
Appendix 1 – Civil Engineering Works Drawings

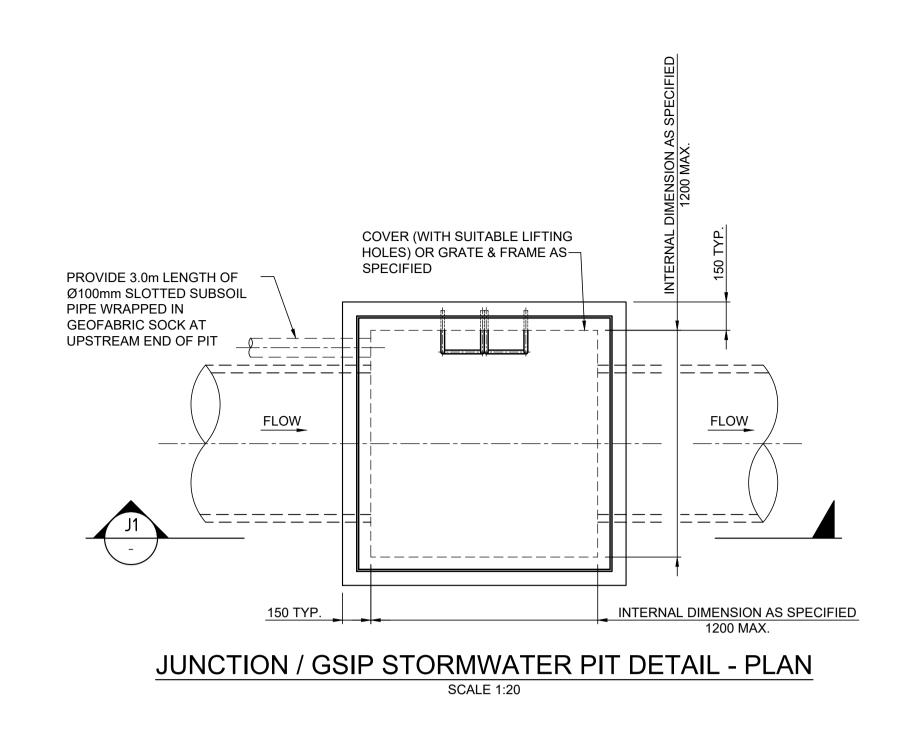


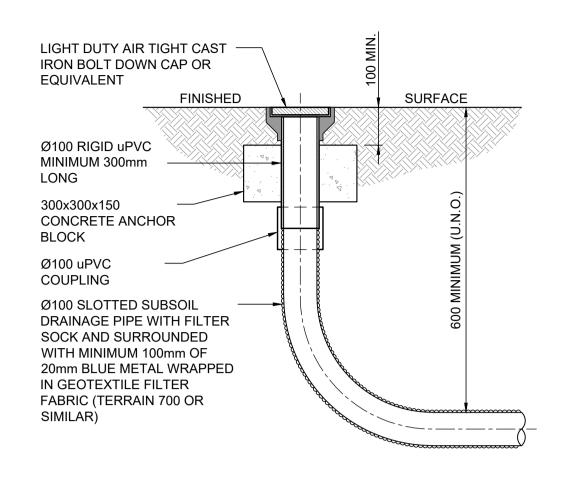




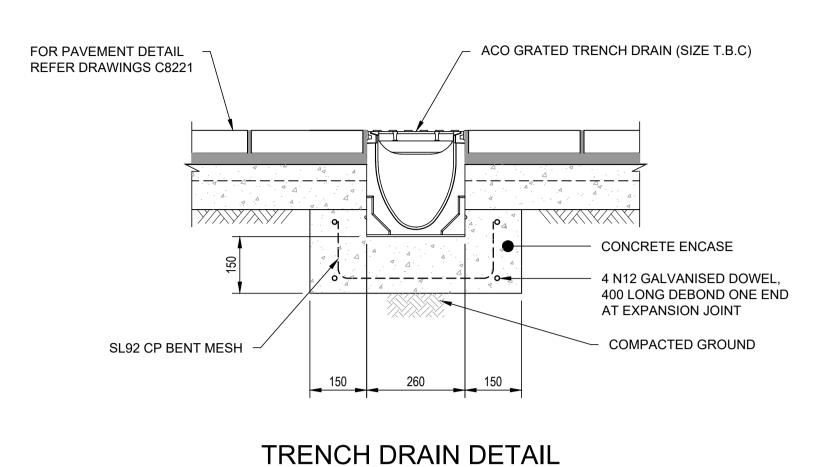




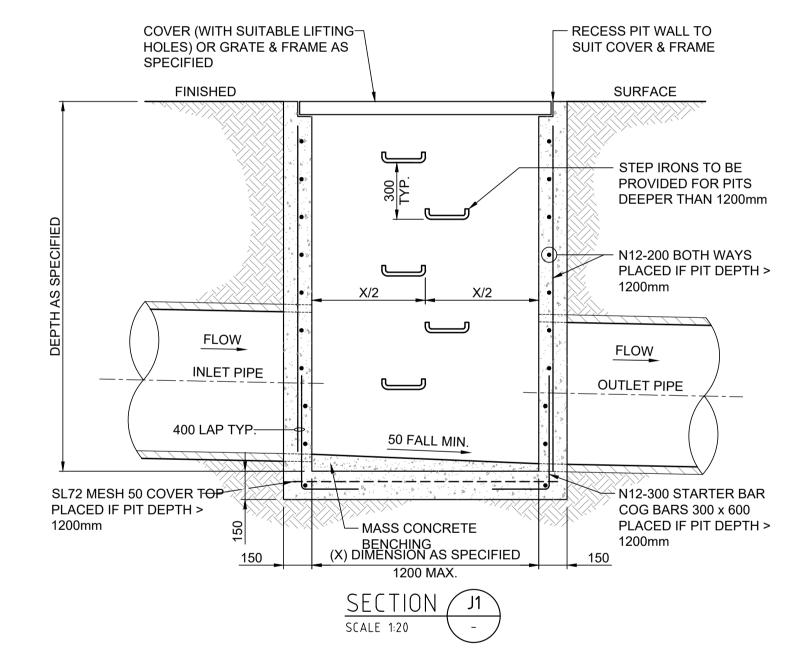


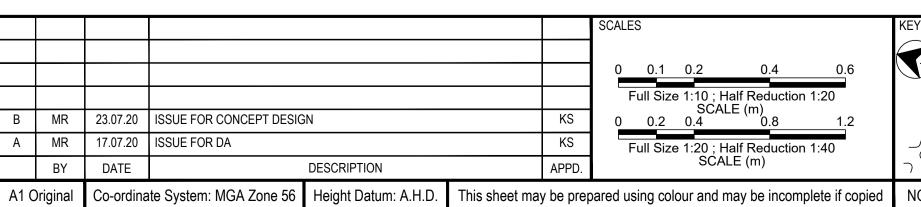


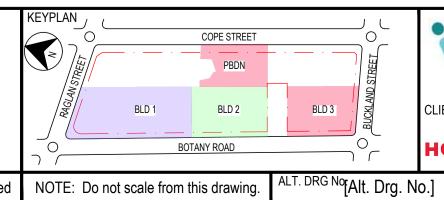




SCALE 1:10







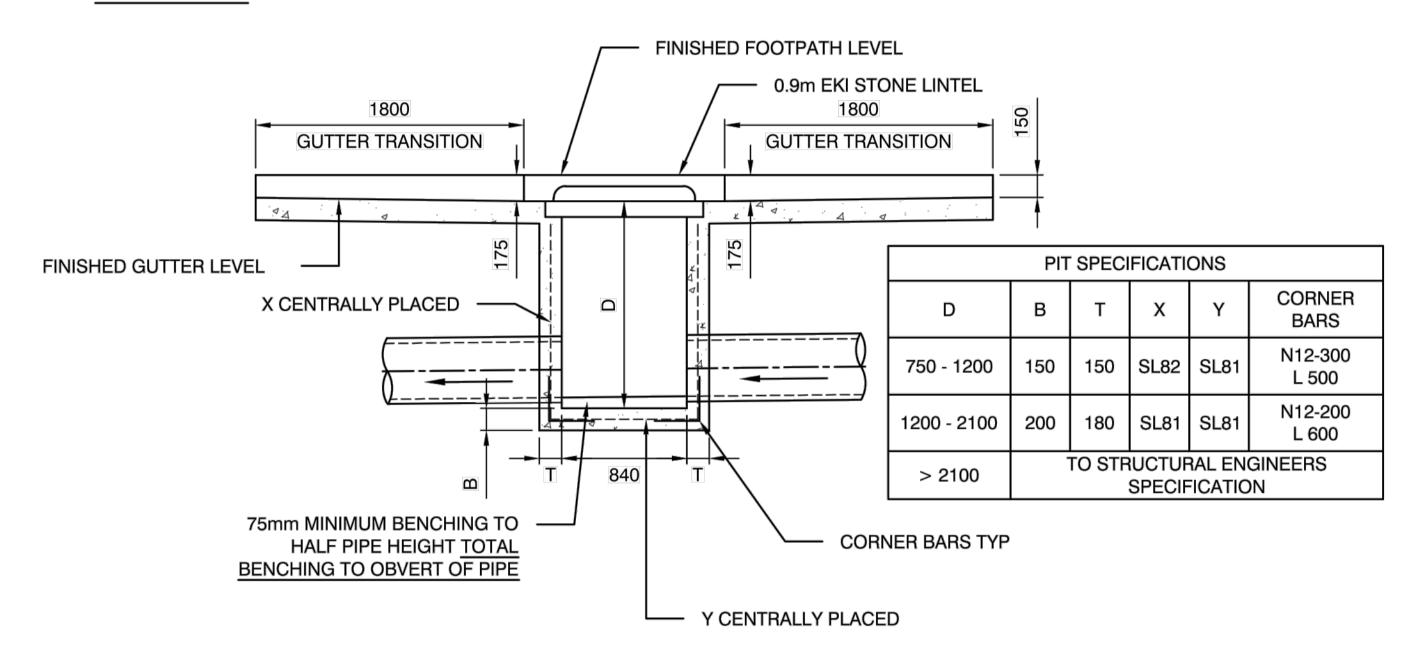


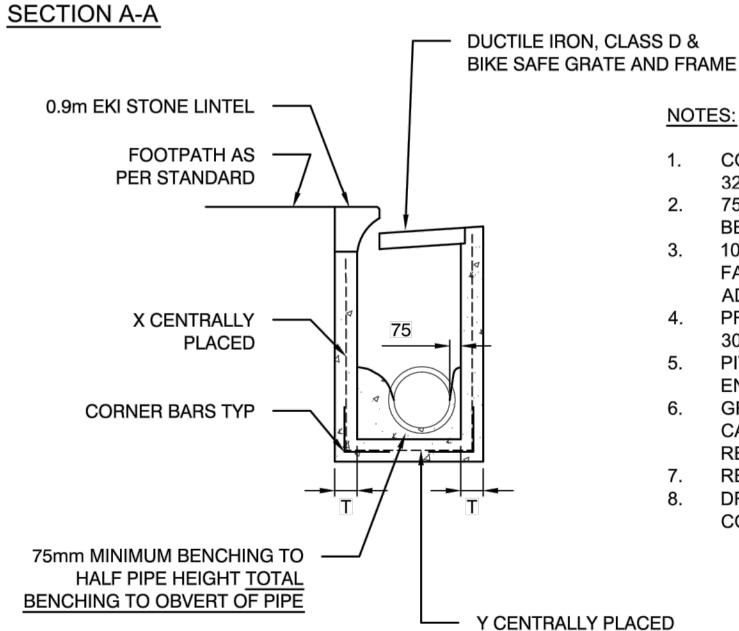




The information shown on this drawing is for the purposes of the Sydney Metro Project only. No warranty is given or implied as to its suitability for any other purpose. The Service Providers accept no liability arising from the use of this drawing and the information shown thereon for any purpose other than the Sydney Metro Project.							
SERVICE PROVIDERS	DRAWN	M.RANGWALA		SYDNEY METRO BUILDING 3 (SOUTHERN PRECINCT)			
115)	DESIGNED			DRAINAGE DETAILS			
	DRG CHECK	J.PICKERING					
Sydney, NSW, Australia www.wsp.com	DESIGN CHECK_	J.CONDON		STATUS: PRELIMINARY	SHEET 1 OF	1	©
	APPROVED	K.SWAN	17.07.20	DRG No.WMQ-BLD3-WSP-CV-DRG-C8260		REV.	В

SECTION B-B



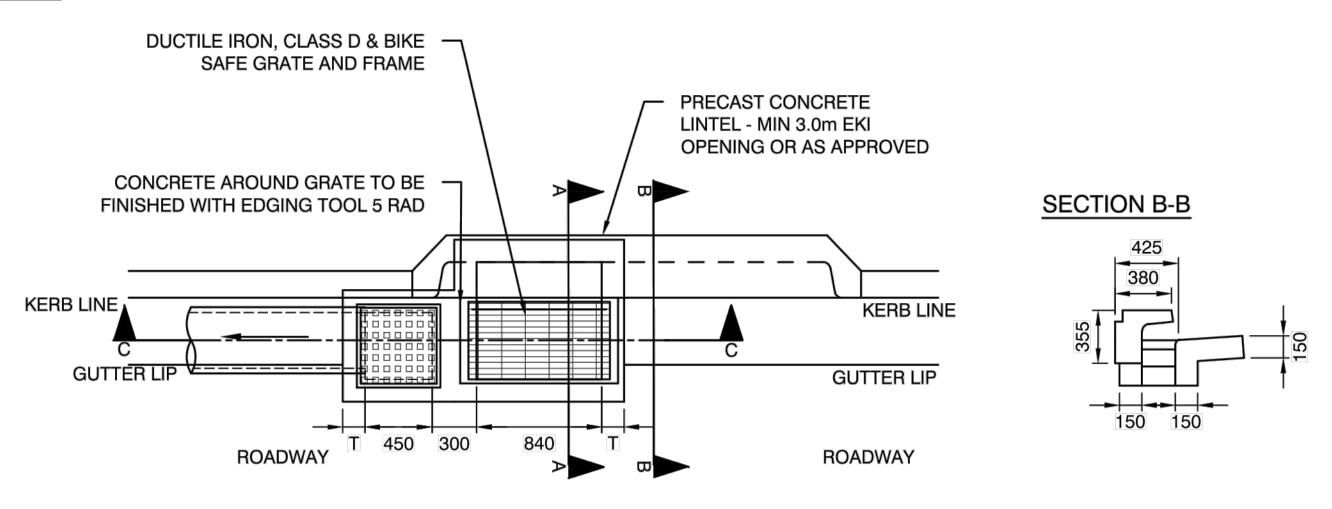


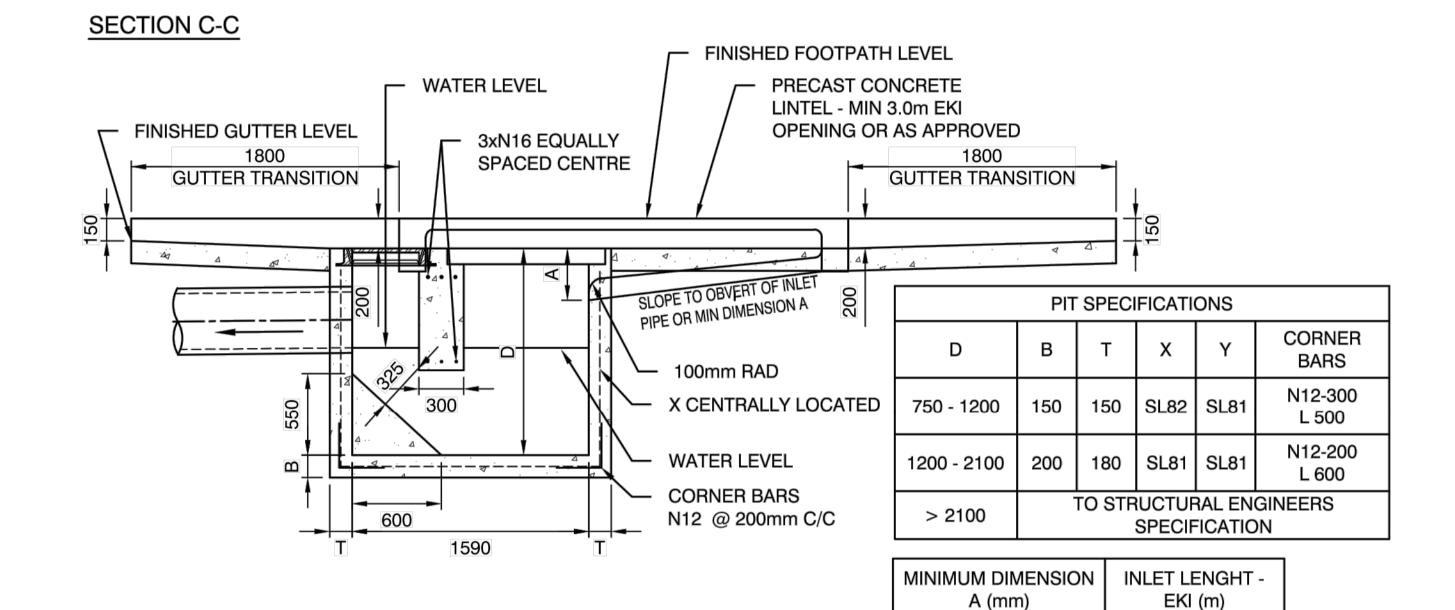
NOTES:

- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE 32MPa.
- 75mm MINIMUM BENCHING TO HALF PIPE HEIGHT TOTAL BENCHING TO OBVERT OF PIPE.
- 100mmØ SUBSOIL DRAINAGE PIPE 3.0m LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES.
- PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1.0m AT 300mm CENTRES
- PITS OVER 2.1m IN DEPTH TO BE DESIGNED BY STRUCTURAL ENGINEER.
- GRATES SHALL BE BICYCLE SAFE AND HAVE MAXIMUM INLET CAPACITY. ALL GRATES MUST BE APPROVED BY THE CITY'S REPRESENTATIVE.
- REINFORCEMENT TO COMPLY WITH AS1302, 1303 & 1304.
- DRAINAGE PIPE TO BE 375Ø CLASS 4 REINFORCED CONCRETE PIPE

CITY OF SYDNEY DWG 7.1.2 STANDARD GULLY PIT WITH STONE INLET

PLAN





SECTION A-A

DUCTILE IRON, CLASS

D & BIKE SAFE GRATE

AND FRAME

Y CENTRALLY

LOCATED

NOTES:

COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS TO BE

1.8

2.4

3.0

3.6

4.2

75mm MINIMUM BENCHING TO HALF PIPE HEIGHT TOTAL BENCHING TO OBVERT OF PIPE.

250

300

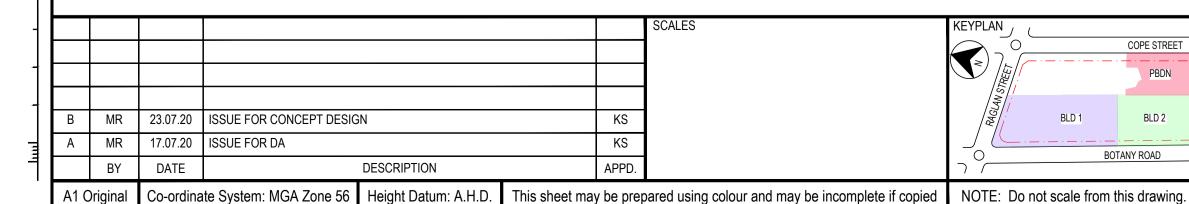
400

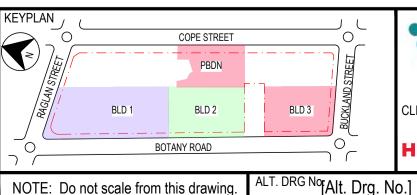
450

500

- 100mmØ SUBSOIL DRAINAGE PIPE 3.0m LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES.
- PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1.0m AT 300mm CENTRES.
- PITS OVER 2.1m IN DEPTH TO BE DESIGNED BY STRUCTURAL ENGINEER.
- GRATES SHALL BE BICYCLE SAFE AND HAVE MAXIMUM INLET CAPACITY. ALL GRATES MUST BE APPROVED BY THE CITY'S REPRESENTATIVE.
- REINFORCEMENT TO COMPLY WITH AS 1302, 1303 & 1304.
- DRAINAGE PIPE TO BE MINIMUM Ø375 CLASS 4 REINFORCED CONCRETE PIPE

CITY OF SYDNEY DWG 7.1.5 TRAPPED GULLY PIT WITH EXTENDED KERB INLET











PRECAST CONCRETE LINTEL -

AS APPROVED

PER STANDARD

X CENTRALLY

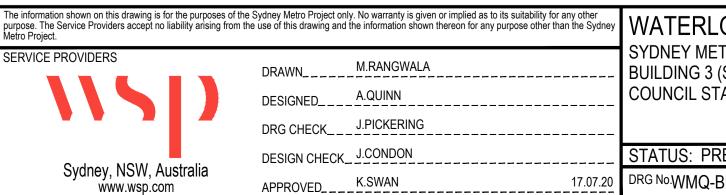
CORNER BARS

N12 @ 200mm C/C

LOCATED

FOOTPATH AS —

- MIN 3.0m EKI OPENING OR

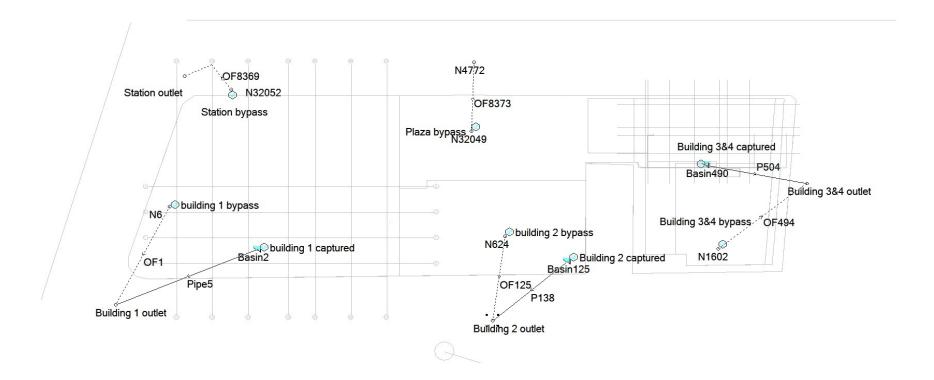


WATERLOO METRO QUARTER DEVELOPMENT SYDNEY METRO BUILDING 3 (SOUTHERN PRECINCT) **COUNCIL STANDARD DETAILS** STATUS: PRELIMINARY SHEET 1 OF 3 DRG No.WMQ-BLD3-WSP-CV-DRG-C8263 REV.





Appendix 2 – IFD Data and DRAINS Results



PIT / NODE DETAILS			Version 14															
Name	Туре	Family	Size	Ponding	Pressure	Surface	Max Pond	Base	Blocking	x	٧	Bolt-down	id Part Ful	I Inflow	Pit is Interna	l Inflow is M	inor Safe Major Safe	<u>!</u>
		,		Volume		Elev (m)	Depth (m)	Inflow	Factor		,	lid	Shock L				ond Depth Pond Dept	
				(cu.m)	Coeff. K			(cu.m/s)							(mm)	(m	n) (m)	
N6	Node						16.7		0	-80813.	415 210269.3	309	22	No				
Building 1 outlet	Node						16.6		0		963 175854.5		17	No				
Building 2 outlet	Node						15.8		0		304 170223.0		1013	No				
N624	Node						16.8		0		794 199840.5		1634	No				
Building 3&4 outlet	Node						15.2		0		981 218403.7		3583	No				
N1602	Node						11.5		0		833 195460.5		4080	No				
N4772	Node						15.7 16.2		0		071 260952.9		11266 15758	No				
Station outlet N32049	Node Node						11.5		0		215 256126.7 773 236758.2		72603	No No				
N32052	Node						11.5		0		543 251358.4		72607	No				
DETENTION BASIN DETAILS																		
Name	Elev	Surf. Area	Not Used	Outlet 1	ype K	Dia(mm)	Centre RL	Pit Family	Pit Type	x	У	HED	Crest RL Crest Le	ngth(m) id				
Basin2		5.6	75	Orifice			280 1	.6.74		-51195.	841 195251.9	948 Yes	17.5	2	27			
		7.6	75															
Basin125		5.8	78	Orifice			121 1	5.94		52882.	814 191080.4	459 Yes	16.7	2	1137			
Basin490		5.8 5.2	78 56	Orifice			119 1	5.34		00204	919 224869.5	E31 Voc	16.1	2	3708			
Da5111450		5.2	56	Office			119	.5.54		33334.	313 224003.	521 TeS	16.1	2	3706			
	_,	5.2	30															
SUB-CATCHMENT DETAILS																		
Name	Pit or	Total	Paved	Grass	Supp	Paved	Grass	Supp	Paved	Grass	Supp	Paved	Grass Supp	Paved	Grass Supp	•	utter Gutter	Gutter Rainfall
	Node	Area	Area	Area	Area	Time	Time	Time	Length	Length	Length	Slope(%)	Slope Slope	Rough	Rough Rough		ngth Slope	FlowFactor Multiplier
		(ha)	%	%	%	(min)	(min)	(min)	(m)	(m)	(m)	%	% %			(m	1) %	
building 1 bypass	N6		.0384	100	-	0	5	5	5							0		1
building 1 captured	Basin2		.4328	100		0	5	5	5							0		1
Building 2 captured building 2 bypass	Basin125 N624		.2289 .0606	100 100		0	5 5	5 5	5 5							0		1 1
Building 3&4 captured	Basin490		.1855	100		0	5	5	5							0		1
Building 3&4 bypass	N1602		0.168	100		0	5	5	5							0		1
Plaza bypass	N32049		.0756	100	-	0	5	5	5							0		1
Station bypass	N32052		.0836	100		0	5	5	5							0		1
,,																		
PIPE DETAILS																		
Name	From	То	Length	U/S IL	D/S IL	Slope	Type	Dia	I.D.	Rough	Pipe Is	No. Pipes	Chg From At Chg	Chg	RI Chg	RL et		
DinaF	Dania 2	Duilding 1 aud	(m)	(m)	(m)	(%)	1 FDC Class 4	(mm)	(mm)	720 0	012 NaFid		1 Danie 2	(m)	(m) (m)	(m) (m	1)	
Pipe5	Basin2	Building 1 outl			16.6 15		1 FRC Class 4		750		012 NewFixed		1 Basin2	0				
P138 P504	Basin125 Basin490	•			15.8 14 15.2 14		1 FRC Class 4 1 FRC Class 4		750 750		012 NewFixed 012 NewFixed		1 Basin125 1 Basin490	0				
1 304	Dasiniaso	building 304 c	dict	100	15.2 17	.2	1 1 NC Class 4		730	720 0.	OIZ NEWITACU		1 503111450	Ü				
DETAILS of SERVICES CROSSING PIPES																		
Pipe	Chg	Bottom	Height of Se	ervice Chg	Bottom	Height of Se	ervice Chg	Bottom	Height of Se	rvice etc								
	(m)	Elev (m)	(m)	(m)	Elev (m)	(m)	(m)	Elev (m)	(m)	etc								
CHANNEL DETAILS																		
Name	From	То	Туре	Length	U/S IL	D/S IL	Slope	Rase Width	h L.B. Slope	R.B. Slope	e Manning	Depth	Roofed					
Nume	110111	10	1,700	(m)	(m)	(m)	(%)	(m)	(1:?)	(1:?)	n	(m)	Noorea					
				()	···/	···/	V-7	()	\·/	(2)		····/						
OVERFLOW ROUTE DETAILS																		
Name	From	То	Travel	Spill	Crest	Weir	Cross	Safe Depth		Safe	Bed	D/S Area	id	U/S IL	D/S IL Length	(m)		
			Time	Level	Length	Coeff. C	Section	-	ms Minor Storm		Slope	Contributir	ng					
			(min)	(m)	(m)			(m)	(m)	(sq.m/sec		%						
OF1	N6	Building 1 outl		0.7			4 m wide path	•	0.3				0	21		100		
OF125	N624	Building 2 outl		0.7			4 m wide path	•	0.3				0	1260		100		
OF494	N1602	Building 3&4 o	utiet	0.7			4 m wide path		0.3				0	3335		100		
OF8373 OF8369	N32049 N32052	N4772 Station outlet		0.7 0.7			4 m wide path 4 m wide path		0.3 0.3				0	72600 72597		100 100		
01 0303	1432032	Station outlet		0.7			4 m wide path	way	0.3	0.13	0.4	1.3	U	12331		100		

PIPE COVER DETAILS Name

 Name
 Type
 Dia (mm)
 Safe Cover (m)
 Cover (m)

 Pipe5
 FRC Class 4
 720
 0.6
 0.1 Unsafe

 P138
 FRC Class 4
 720
 0.6
 0.1 Unsafe

 P504
 FRC Class 4
 720
 0.6
 0.1 Unsafe

This model has no pipes with non-return valves

DRAINS results prepared from Version 2019.06

PIT / NODE DETAILS				Version 8				
Name	Max HGL	Max Pond	Max Surfac	e Max Pond	d Min	Overflow	/ Constraint	
		HGL	Flow Arrivir	ng Volume	Freeboard	(cu.m/s)		
			(cu.m/s)	(cu.m)	(m)			
Building 1 outlet	16.4	5	0.02	29				
Building 2 outlet	15.6	5	0.04	46				
Building 3&4 outlet	15.0	5	0.12	26				
N4772	15.5		0.0					
Station outlet	16.0	5	0.0	63				
SUB-CATCHMENT DETAILS								
Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm	
	Flow Q	Max Q	Max Q	Tc	Tc	Tc		
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)		
building 1 bypass	0.02	6 0.020	6	0	5	5	5 1% AEP, 5 min burst, St	torm 1
building 1 captured	0.29	2 0.29	2	0	5	5	5 1% AEP, 5 min burst, St	torm 1
Building 2 captured	0.15	5 0.15	5	0	5	5	5 1% AEP, 5 min burst, St	torm 1
building 2 bypass	0.04	1 0.04	1	0	5	5	5 1% AEP, 5 min burst, St	torm 1
Building 3&4 captured	0.12	5 0.12	5	0	5	5	5 1% AEP, 5 min burst, S	torm 1
Building 3&4 bypass	0.11	3 0.113	3	0	5	5	5 1% AEP, 5 min burst, S	torm 1
Plaza bypass	0.05	1 0.05	1	0	5	5	5 1% AEP, 5 min burst, S	torm 1
Station bypass	0.05	6 0.050	6	0	5	5	5 1% AEP, 5 min burst, S	torm 1
PIPE DETAILS								
Name	Max Q	Max V	Max U/S	Max D/S	Due to Storm			
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)				
Pipe5	0.15	2 0.3	7 17.4	45 16.4	5 1% AEP, 5 min burst, Storm 1			
P138	0.0				5 1% AEP, 15 min burst, Storm 2			
P504	0.02	9 0.0	7 16.02	22 15.0	5 1% AEP, 25 min burst, Storm 1	.0		
CHANNEL DETAILS								
Name	Max Q	Max V			Due to Storm			
	(cu.m/s)	(m/s)						
OVERFLOW ROUTE DETAILS								
Name	Max Q U/S	Max Q D/S	S Safe Q	Max D	Max DxV	Max Wid	th Max V	Due to Storm
OF1	0.02						4	0.46 1% AEP, 5 min burst, Storm 1
OF125	0.04					02	4	0.57 1% AEP, 5 min burst, Storm 1
OF494	0.11					04	4	0.84 1% AEP, 5 min burst, Storm 1
OF8373	0.05					02	4	0.61 1% AEP, 5 min burst, Storm 1
OF8369	0.05	6 0.05				02	4	0.64 1% AEP, 5 min burst, Storm 1
DETENTION BASIN DETAILS								
Name	Max WL	MaxVol	Max Q	Max Q	Max Q			
		-	Total		l High Level			
Basin2	17.1	7 42.				0		

Basin125	16.74	73.3	0.03	0.03	0
Basin490	16.17	54.5	0.029	0.029	0

Run Log for 200630 MQD Drains run at 18:04:22 on 30/6/2020

Flows were safe in all overflow routes.

Event ID Region	Region (source)	Burst Duration (min)	Burst Loading	Original Burst Depth (mm)	AEP Window	AEP (source) (%) Bu	rst Start Date	Burst End Date	DB Event Reference No.	DB Pluviograph Reference No. Offical Ga	uge Lat	Long
4380 East Coast (South)	• , ,	10	_	-	frequent			3/25/2009 17:50	113650	1828 qcd_5630	· ·	5 150.6306
4382 East Coast (South)	East Coast (South)	10	1		frequent			12/28/1999 17:10	39777	517 qcd_0612	_	5 151.5919
4384 East Coast (South)	East Coast (South)	10			frequent	14.5144	02-04-05 9:30	02-04-05 9:35	42925	556 qcd_0681		9 150.4019
4385 East Coast (South)		10	2		frequent	15.6473 3/2	27/1999 22:30	3/27/1999 22:35	114063	1835 qcd_5630		150.5083
4386 East Coast (South)	East Coast (South)	10	2	11	frequent	47.6798 4/2	28/1993 14:05	4/28/1993 14:10	113366	1824 qcd_5630		3 150.2153
4387 East Coast (South)	East Coast (South)	10	2	10	frequent	52.1369	05-03-07 9:35	05-03-07 9:40	112822	1817 qcd_5630		3 150.05
4388 East Coast (South)	East Coast (South)	10	2	10	frequent	61.856 12,	/26/1993 13:45	12/26/1993 13:50	120789	1949 qcd_5681		5 150.7384
4389 East Coast (South)	East Coast (South)	10	3	22.6	frequent	14.4213 11,	/26/2001 19:10	11/26/2001 19:15	61080	960 qcd_2030		5 153.164
4390 East Coast (South)	East Coast (South)	10	3	18.5	frequent	14.4226 12,	/14/1998 17:00	12/14/1998 17:05	62833	1000 qcd_2130	05_77 -33.7982	2 150.9825
4391 East Coast (South)	East Coast (South)	10	3	18.41	frequent	40.3161	03-07-73 14:30	03-07-73 14:35	12454	493 qcd_0590	-30.3439	9 152.7128
4369 East Coast (South)	East Coast (South)	10	1	21.44	intermediate	14.4035 12	/21/1979 19:35	12/21/1979 19:40	36083	476 qcd_0580	26 -28.4414	152.8296
4370 East Coast (South)	East Coast (South)	10	1	29	intermediate	4.6567	12-10-08 15:50	12-10-08 15:55	38062	497 qcd_0600	85 -31.3865	5 152.2482
4372 East Coast (South)	East Coast (South)	10	1	18.2	intermediate	10.8076	12-05-03 13:55	12-05-03 14:00	39020	506 qcd_0611	-32.5067	7 151.3779
4373 East Coast (South)	East Coast (South)	10	2	20.6	intermediate	7.5877	07-01-10 12:55	07-01-10 13:00	35740	471 qcd_0571	04 -31.2739	9 151.9655
4374 East Coast (South)	East Coast (South)	10	2	24	intermediate	4.9848	12-06-94 13:30	12-06-94 13:35	114850	1847 qcd_5660	37_233 -33.8085	5 151.0907
4375 East Coast (South)	East Coast (South)	10	3	26.51	intermediate	5.4868 1/3	31/1966 15:40	1/31/1966 15:45	36685	484 qcd_0581	16 -28.45	5 153
4376 East Coast (South)	East Coast (South)	10	3	22.91	intermediate	12.4842 3/1	15/1955 4:40	3/15/1955 4:45	38474	502 qcd_0610	78 -32.7932	2 151.8359
4377 East Coast (South)	East Coast (South)	10	3	21.69	intermediate	5.3205	12-05-59 14:50	12-05-59 14:55	39674	516 qcd_0612	40 -32.9667	7 151.1333
4378 East Coast (South)	East Coast (South)	10	1	22	intermediate	7.2234 2/2	26/2008 16:25	2/26/2008 16:30	117210	1888 qcd_5671	08_231 -33.3846	5 150.9867
4379 East Coast (South)	East Coast (South)	10	1	23.58	intermediate	5.0066 1/2	29/1980 14:05	1/29/1980 14:10	39134	508 qcd_0611	74 -32.9	9 151.2667
4354 East Coast (South)	East Coast (South)	10	1	35.5	rare	0.3639 12,	/14/1986 23:20	12/14/1986 23:25	114277	1840 qcd_5660	18_233 -34.0308	3 151.1643
4355 East Coast (South)	East Coast (South)	10	1	38.48	rare	0.1482	03-08-03 18:40	03-08-03 18:45	112071	1809 qcd_5630	36_231 -34.1394	150.3106
4356 East Coast (South)	East Coast (South)	10	1	56.5	rare	0.1649 6/1	15/1997 19:35	6/15/1997 19:40	134779	2150 qcd_batea	ubay_58 -33.3817	7 151.4767
4357 East Coast (South)	East Coast (South)	10	3	26.36	rare	0.9998 2/1	19/2007 15:50	2/19/2007 15:55	120662	1946 qcd_5681	63_231 -34.4261	1 150.1903
4361 East Coast (South)		10	3	28.89			02-11-97 20:40		35314	465 qcd_0562		5 152.1552
4363 East Coast (South)		10	1	27.5	rare	1.0386	10-05-09 15:15	10-05-09 15:20	117584	1897 qcd_5671	54_233 -33.8946	5 150.9459
4364 East Coast (South)		10	3	24.4		•	•	3/18/1990 16:05	42415	547 qcd_0661		1 150.9864
4365 East Coast (South)		10		25.53			11-07-69 18:10		38997	506 qcd_0611		7 151.3779
4366 East Coast (South)		10		29.8		·		12/24/2004 13:40	39314	512 qcd_0612		3 150.7058
4368 East Coast (South)		10			rare			3/27/2008 16:25	61326	965 qcd_2040	_	2 152.6832
4417 East Coast (South)		15			frequent	·		11/29/2000 18:55	35299	465 qcd_0562		5 152.1552
4418 East Coast (South)		15			frequent			4/14/2009 19:10	116404	1875 qcd_5661	_	7 150.9645
4419 East Coast (South)		15			frequent		11-02-04 17:45		43994	571 qcd_0700		3 149.8197
4420 East Coast (South)		15			frequent			1/31/1978 16:40	39251	511 qcd_0612		
4421 East Coast (South)		15			frequent			12/21/1991 18:00	116339	1873 qcd_5661	_	3 151.3019
4422 East Coast (South)	, ,	15			frequent			2/28/2007 12:30	121174	1956 qcd_5681	_	5 150.5183
4423 East Coast (South)		15			frequent	14.5786	12-06-07 7:10		114345	1841 qcd_5660	_	5 151.0879
4424 East Coast (South)		15			frequent		11-08-99 14:50		119756	1933 qcd_5681		9 150.6809
4425 East Coast (South)	, ,	15			frequent		11-11-84 18:15		115463	1855 qcd_5660	_	7 151.107
4426 East Coast (South)		15			frequent			2/15/1984 13:05	42048	543 qcd_0660		7 151.205
4381 East Coast (South)		15			intermediate			3/25/2009 17:55	113650	1828 qcd_5630	_	5 150.6306
4408 East Coast (South)		15			intermediate			2/15/1998 17:50 12-04-07 23:45	117026 61225	1885 qcd_5671	_	9 151.0277 3 152.725
4409 East Coast (South) 4410 East Coast (South)		15 15			intermediate intermediate		12-04-07 23:35	2/28/2007 14:00	120264	963 qcd_2040	_	5 152.725
4410 East Coast (South)		15			intermediate	5.8797	12-05-80 4:55		39479	1940 qcd_5681 514 qcd 0612	_	l 151.75
4412 East Coast (South)		15			intermediate		04-04-04 14:35		114700	1846 qcd_5660		3 151.0368
4413 East Coast (South)		15			intermediate			12/22/1991 14:40	38495	502 qcd 0610	_	2 151.8359
4414 East Coast (South)		15			intermediate	·		2/24/1977 16:35	40436	525 qcd_0620		1 149.9815
4415 East Coast (South)		15			intermediate			3/21/1973 20:30	39694	516 qcd_0612		7 151.1333
4416 East Coast (South)		15			intermediate			2/17/1993 9:20	115578	1857 qcd_5660		3 151.1673
4358 East Coast (South)		15		36.15				2/19/2007 15:55	120662	1946 qcd_5681		1 150.1903
4392 East Coast (South)		15		34.5				4/21/1989 22:20	115570	1857 qcd_5660		3 151.1673
4393 East Coast (South)		15			rare	1.9503	12-05-89 3:40		114882	1847 qcd_5660		5 151.0907
4396 East Coast (South)		15		40.5			01-06-89 14:40		114601	1845 qcd_5660		7 151.2253
4397 East Coast (South)		15		50.5				1/21/1991 15:40	117021	1885 qcd_5671	_	9 151.0277
4398 East Coast (South)		15		29.15				1/17/2007 14:50	120661	1946 qcd_5681	_	1 150.1903
4400 East Coast (South)		15			rare			2/24/2007 17:45	120505	1943 qcd_5681	_	2 150.73
4401 East Coast (South)		15		32.75				11/27/1988 11:05	112004	1808 qcd_5630	_	3 150.3811
4403 East Coast (South)		15		107.5				11/23/1996 20:45	138481	2233 qcd_north	_	3 153.0055
4407 East Coast (South)		15		27.52				3/24/2008 15:05	112382	1812 qcd_5630	_	5 150.1236
,	. ,					•				, _	=	

4445 East Coast (South) East Coast (South)	20	1	30.5 frequent	14.5133 1/17/2001 22:15 1/17/2001 22:30	117769	1901 qcd_568004_231	-34.2872 150.7253
4446 East Coast (South) East Coast (South)	20	1		14.7257 3/19/1978 22:45 3/19/1978 23:00	38101		-31.3865 152.2482
			32.85 frequent			497 qcd_060085	
4448 East Coast (South) East Coast (South)	20	1	26.5 frequent	14.8119 2/28/1995 19:05 2/28/1995 19:20	116813	1882 qcd_567085_233	-33.608 150.7671
4449 East Coast (South) East Coast (South)	20	2	30.5 frequent	14.4241 04-10-98 11:50 04-10-98 12:05	115990	1864 qcd_566085_233	-33.7629 151.1945
4450 East Coast (South) East Coast (South)	20	2	23.35 frequent	14.4269 2/20/2005 13:50 2/20/2005 14:05	120704	1947 qcd_568165_231	-34.5369 150.3825
4451 East Coast (South) East Coast (South)	20	2	24 frequent	14.4721 11/26/1988 13:15 11/26/1988 13:30	119753	1933 qcd_568130_233	-34.059 150.6809
4452 East Coast (South) East Coast (South)	20	2	26.04 frequent	14.5324 01-02-80 16:45 01-02-80 17:00	35394	468 qcd_057091	-30.7167 151.8531
4453 East Coast (South) East Coast (South)	20	2	31 frequent	14.5361 01-04-87 16:05 01-04-87 16:20	114620	1845 qcd_566032_233	-33.887 151.2253
4454 East Coast (South) East Coast (South)	20	3	23 frequent	14.9591 12-05-95 11:20 12-05-95 11:35	113762	1831 qcd_563073_231	-33.6139 150.1561
4455 East Coast (South) East Coast (South)	20	3	30.5 frequent	15.4448 09-01-02 7:35 09-01-02 7:50	134697	2148 qcd_avalon_58	-33.6408 151.3288
4383 East Coast (South) East Coast (South)	20	1	30 intermediate	10.1606 12/28/1999 17:05 12/28/1999 17:20	39777	517 qcd_061250	-32.6296 151.5919
4434 East Coast (South) East Coast (South)	20	1	38.5 intermediate	4.6924 12/29/2006 16:25 12/29/2006 16:40	115409	1854 qcd_566053_233	-33.6672 151.1047
4435 East Coast (South) East Coast (South)	20	1	36 intermediate	14.0922 11/30/2005 15:25 11/30/2005 15:40	61631	973 qcd_205006_77	-30.6405 152.856
4436 East Coast (South) East Coast (South)	20	2	24.21 intermediate	11.6266 10/27/1965 22:55 10/27/1965 23:10	39083	507 qcd_061171	-32.5167 150.9667
4437 East Coast (South) East Coast (South)	20	2	28.54 intermediate	13.6735 02-10-81 18:05 02-10-81 18:20	38426	501 qcd_061029	-33.2333 151.2
4438 East Coast (South) East Coast (South)	20	2	24.5 intermediate	11.8839 3/19/1985 14:55 3/19/1985 15:10	113402	1824 qcd_563056_231	-34.0333 150.2153
4439 East Coast (South) East Coast (South)	20	2	30.57 intermediate	3.5787 2/15/1991 20:30 2/15/1991 20:45	40995	532 qcd_063039	-33.7122 150.3087
4440 East Coast (South) East Coast (South)	20	2	38.48 intermediate	5.7957 02-06-92 14:15 02-06-92 14:30	37170	489 qcd_059000	-30.8141 152.5129
4441 East Coast (South) East Coast (South)	20	3	27 intermediate	9.7177 08-05-86 16:50 08-05-86 17:05	116588	1877 qcd_567077_233	-33.8807 150.9504
, , ,	20	3	37.89 intermediate				
4444 East Coast (South) East Coast (South)		3		10.2978 11/20/1979 20:05 11/20/1979 20:20	36292	478 qcd_058072	-28.6533 153.4542
4359 East Coast (South) East Coast (South)	20	-	41.59 rare	0.3541 2/19/2007 15:40 2/19/2007 15:55	120662	1946 qcd_568163_231	-34.4261 150.1903
4367 East Coast (South) East Coast (South)	20	2	45 rare	1.1259 12/24/2004 13:35 12/24/2004 13:50	39314	512 qcd_061211	-33.3588 150.7058
4371 East Coast (South) East Coast (South)	20	1	47.2 rare	2.3539 12-10-08 15:50 12-10-08 16:05	38062	497 qcd_060085	-31.3865 152.2482
4399 East Coast (South) East Coast (South)	20	2	34.37 rare	1.5391 1/17/2007 14:35 1/17/2007 14:50	120661	1946 qcd_568163_231	-34.4261 150.1903
4404 East Coast (South) East Coast (South)	20	2	163 rare	0.0002 11/23/1996 20:30 11/23/1996 20:45	138481	2233 qcd_northbonvil_58	-30.3638 153.0055
4427 East Coast (South) East Coast (South)	20	2	37.19 rare	2.2892 12-09-98 18:30 12-09-98 18:45	111571	1801 qcd_561104_231	-32.9777 150.5829
4428 East Coast (South) East Coast (South)	20	2	36.66 rare	1.6471 3/31/1969 18:15 3/31/1969 18:30	42746	553 qcd_067035	-33.9272 150.9128
4429 East Coast (South) East Coast (South)	20	2	65.43 rare	0.1171 11-08-84 22:00 11-08-84 22:15	42099	543 qcd_066062	-33.8607 151.205
4432 East Coast (South) East Coast (South)	20	3	26.18 rare	1.8368 1/16/2006 10:45 1/16/2006 11:00	123044	1983 qcd_570350_231	-34.7506 149.6953
4433 East Coast (South) East Coast (South)	20	2	38.5 rare	3.1017 2/21/1984 16:45 2/21/1984 17:00	116430	1876 qcd_567076_233	-33.7111 150.9842
4480 East Coast (South) East Coast (South)	25	1	35.11 frequent	14.5614 02-05-96 15:50 02-05-96 16:10	38503	502 qcd_061078	-32.7932 151.8359
4481 East Coast (South) East Coast (South)	25	1	27.19 frequent	15.2218 2/14/2001 15:55 2/14/2001 16:15	111682	1803 qcd_561107_231	-33.0288 150.8741
4483 East Coast (South) East Coast (South)	25	1	20.44 frequent	15.2572 1/27/2006 15:30 1/27/2006 15:50	112994	1819 qcd 563050 231	-34.0839 149.9172
4485 East Coast (South) East Coast (South)	25	2	27 frequent	14.4835 12-03-03 18:15 12-03-03 18:35	116642	1878 qcd 567078 233	-33.9827 150.9071
4486 East Coast (South) East Coast (South)	25	2	26.5 frequent	14.4994 10-11-08 15:20 10-11-08 15:40	120349	1941 qcd_568149_233	-34.0292 150.6575
4487 East Coast (South) East Coast (South)	25	2	28 frequent	14.6604 3/29/2002 15:50 3/29/2002 16:10	114188	1838 qcd 563082 231	-33.3766 150.6072
	25 25	2	31.18 frequent			466 acd 057033	
4488 East Coast (South) East Coast (South)				14.7181 12/15/1970 15:10 12/15/1970 15:30	35384	' -	-30.5112 152.0427
4489 East Coast (South) East Coast (South)	25	2	29 frequent	14.7598 2/17/1993 9:40 2/17/1993 10:00	116727	1880 qcd_567083_233	-33.8192 150.9127
4490 East Coast (South) East Coast (South)	25	3	34.76 frequent	15.0494 02-02-90 12:15 02-02-90 12:35	39524	514 qcd_061223	-32.9131 151.75
4494 East Coast (South) East Coast (South)	25	3	26.5 frequent	15.4218 10/24/1987 13:45 10/24/1987 14:05	120511	1943 qcd_568156_233	-34.0482 150.73
4447 East Coast (South) East Coast (South)	25	1	37.17 intermediate	13.0798 3/19/1978 22:40 3/19/1978 23:00	38101	497 qcd_060085	-31.3865 152.2482
4468 East Coast (South) East Coast (South)	25	1	40.4 intermediate	10.2032 1/19/2006 11:55 1/19/2006 12:15	36868	486 qcd_058131	-28.8521 153.4556
4470 East Coast (South) East Coast (South)	25	1	36 intermediate	8.1516 11/29/2002 15:45 11/29/2002 16:05	116009	1865 qcd_566087_233	-33.8226 151.1294
4471 East Coast (South) East Coast (South)	25	2	32.5 intermediate	10.877 03-02-95 22:30 03-02-95 22:50	117427	1893 qcd_567147_233	-33.7437 150.9924
4472 East Coast (South) East Coast (South)	25	2	41.8 intermediate	8.5722 06-03-10 6:00 06-03-10 6:20	36857	486 qcd_058131	-28.8521 153.4556
4473 East Coast (South) East Coast (South)	25	2	40.5 intermediate	3.5613 02-05-10 18:55 02-05-10 19:15	117648	1898 qcd_567163_233	-33.7745 150.6716
4474 East Coast (South) East Coast (South)	25	2	38.82 intermediate	12.3554 1/23/1989 12:05 1/23/1989 12:25	36849	486 qcd_058131	-28.8521 153.4556
4476 East Coast (South) East Coast (South)	25	2	30.59 intermediate	8.532 3/28/1969 18:25 3/28/1969 18:45	39004	506 qcd 061158	-32.5067 151.3779
4477 East Coast (South) East Coast (South)	25	3	27.09 intermediate	9.0362 1/21/1988 16:45 1/21/1988 17:05	39436	513 qcd 061212	-32.3767 150.96
4479 East Coast (South) East Coast (South)	25	3	33 intermediate	10.7451 10/31/2005 17:25 10/31/2005 17:45	114229	1839 qcd_563146_233	-33.6767 150.625
4394 East Coast (South) East Coast (South)	25	2	52.5 rare	0.4819 12-05-89 3:30 12-05-89 3:50	114882	1847 qcd_566037_233	-33.8085 151.0907
4456 East Coast (South) East Coast (South)	25	1	40 rare	2.5109 1/18/1993 14:55 1/18/1993 15:15	111557	1801 qcd_561104_231	-32.9777 150.5829
4458 East Coast (South) East Coast (South)	25	1	44.5 rare	1.5041 1/21/1991 14:10 1/21/1991 14:30	120099	1938 qcd_568140_231	-34.1467 150.4244
	25 25	1	38.25 rare				
4459 East Coast (South) East Coast (South)		7		1.0637 12/28/1996 13:50 12/28/1996 14:10	112555	1814 qcd_563043_231	-33.9844 150.1167
4460 East Coast (South) East Coast (South)	25	2	53.48 rare	2.5174 1/17/1966 16:00 1/17/1966 16:20	37715	494 qcd_060030	-31.9033 152.4496
4461 East Coast (South) East Coast (South)	25	2	53.5 rare	2.9389 11-05-00 16:50 11-05-00 17:10	60996	958 qcd_201001_77	-28.3537 153.2931
4462 East Coast (South) East Coast (South)	25	2	132.62 rare	0 1/23/1991 20:55	121513	1964 qcd_568296_77	-34.1437 150.6467
4464 East Coast (South) East Coast (South)	25	2	81.5 rare	0.4897 3/31/2009 13:05 3/31/2009 13:25	137954	2223 qcd_middleboamb_58	-30.3262 153.048
4466 East Coast (South) East Coast (South)	25	3	50.2 rare	1.2393 12/14/2003 14:10 12/14/2003 14:30	35700	470 qcd_057103	-30.0093 152.0101
4467 East Coast (South) East Coast (South)	25	3	48.5 rare	1.3513 11/22/2005 19:10 11/22/2005 19:30	117645	1898 qcd_567163_233	-33.7745 150.6716
4484 East Coast (South) East Coast (South)	30	1	22.14 frequent	14.4733 1/27/2006 15:30 1/27/2006 15:55	112994	1819 qcd_563050_231	-34.0839 149.9172

4516 East Coast (South) East Coast (South)	30	1	40.5 frequent	14.486 03-12-91 23:35 3/13/1991 0:00	36875	486 qcd 058131	-28.8521 153.4556
, , ,	30	1	34.5 frequent	14.9489 02-07-10 0:30 02-07-10 0:55	115418	· -	-33.6672 151.1047
4517 East Coast (South) East Coast (South)			-			1854 qcd_566053_233	
4518 East Coast (South) East Coast (South)	30	2	25.67 frequent	14.4634 04-04-07 14:45 04-04-07 15:10	112379	1812 qcd_563041_231	-33.7686 150.1236
4519 East Coast (South) East Coast (South)	30	2	32.8 frequent	14.4655 1/28/2001 12:55 1/28/2001 13:20	61448	968 qcd_204030_77	-30.2587 152.0094
4520 East Coast (South) East Coast (South)	30	2	30.79 frequent	14.5328 02-12-92 16:40 02-12-92 17:05	62836	1000 qcd_213005_77	-33.7982 150.9825
4521 East Coast (South) East Coast (South)	30	2	34 frequent	14.5714 3/21/1983 16:20 3/21/1983 16:45	114290	1840 qcd_566018_233	-34.0308 151.1643
4522 East Coast (South) East Coast (South)	30	2	40.18 frequent	14.6131 12/15/1986 13:55 12/15/1986 14:20	36552	482 qcd_058109	-28.3672 153.1689
4523 East Coast (South) East Coast (South)	30	3	36.75 frequent	16.1324 04-07-84 23:50 04-08-84 0:15	118046	1905 qcd_568048_231	-34.265 150.8058
4524 East Coast (South) East Coast (South)	30	3	35.5 frequent	16.2546 05-02-09 19:40 05-02-09 20:05	116302	1872 qcd_566099_233	-33.9119 151.2273
4506 East Coast (South) East Coast (South)	30	1	32.75 intermediate	4.8824 12/29/1990 18:30 12/29/1990 18:55	111929	1807 qcd_562102_231	-32.991 150.1346
4507 East Coast (South) East Coast (South)	30	1	50.6 intermediate	4.6224 12-03-07 14:30 12-03-07 14:55	40385	524 qcd_061390	-32.8905 151.707
4508 East Coast (South) East Coast (South)	30	1	56.75 intermediate	7.4552 10/31/2005 12:30 10/31/2005 12:55	140323	2265 qcd_southboambe_58	-30.3417 153.0512
4509 East Coast (South) East Coast (South)	30	2	41.5 intermediate	6.1808 01-08-88 18:50 01-08-88 19:15	119577	1929 qcd_568102_231	-34.5522 150.6317
4510 East Coast (South) East Coast (South)	30	2	35.5 intermediate	8.2296 12-01-70 16:15 12-01-70 16:40	12654	508 qcd_061174	-32.9 151.2667
4511 East Coast (South) East Coast (South)	30	2	43 intermediate	3.3107 03-04-96 12:20 03-04-96 12:45	120910	1951 qcd_568170_233	-33.3472 150.8578
4512 East Coast (South) East Coast (South)	30	2	41 intermediate	7.2535 1/22/2005 17:25 1/22/2005 17:50	61580	971 qcd_204900_77	-29.1965 152.5931
4513 East Coast (South) East Coast (South)	30	2	31.5 intermediate	6.3627 03-10-03 10:05 03-10-03 10:30	113655	1828 qcd_563064_233	-32.2375 150.6306
4514 East Coast (South) East Coast (South)	30	3	27.79 intermediate	10.9771 2/23/1990 11:10 2/23/1990 11:35	40516	526 qcd 062020	-32.5014 150.0333
4515 East Coast (South) East Coast (South)	30	3	31.47 intermediate	6.0188 01-01-67 17:20 01-01-67 17:45	40505	526 qcd_062020	-32.5014 150.0333
4402 East Coast (South) East Coast (South)	30	2	45.75 rare	2.0727 11/27/1988 10:45 11/27/1988 11:10	112004	1808 qcd_563035_231	-33.9758 150.3811
4457 East Coast (South) East Coast (South)	30	1	47.5 rare	1.433 1/18/1993 14:55 1/18/1993 15:20	111557	1801 qcd_561104_231	-32.9777 150.5829
4495 East Coast (South) East Coast (South)	30	1	60.43 rare	2.4031 1/31/2008 15:30 1/31/2008 15:55	118546	1913 qcd_568061_231	-34.4056 150.7097
4497 East Coast (South) East Coast (South)	30	1	65.25 rare	1.7251 05-03-94 6:10 05-03-94 6:35	138064	2226 qcd mountelliot 58	-33.405 151.3933
4498 East Coast (South) East Coast (South)	30	2	44.53 rare	3.1062 12/13/1963 3:25 12/13/1963 3:50	41915	542 qcd_066037	-33.9465 151.1731
4500 East Coast (South) East Coast (South)	30	2	62.25 rare	0.1852 02-11-07 4:20 02-11-07 4:45	120109	1938 qcd_568140_231	-34.1467 150.4244
4502 East Coast (South) East Coast (South)	30	2	56.25 rare	2.1328 3/23/1997 17:30 3/23/1997 17:55	118929	1919 qcd_568072_231	-34.1786 150.8317
	30	2	44.98 rare	1.2839 1/23/2004 15:20 1/23/2004 15:45	119452	· – –	-34.3778 150.3156
4503 East Coast (South) East Coast (South)		3				1927 qcd_568094_231	
4504 East Coast (South) East Coast (South)	30	3	54 rare	2.1685 10/25/2003 15:30 10/25/2003 15:55	117264	1889 qcd_567109_233	-33.6202 151.149
4505 East Coast (South) East Coast (South)	30	_	50 rare	1.0156 02-10-90 13:50 02-10-90 14:15	120350	1941 qcd_568149_233	-34.0292 150.6575
4545 East Coast (South) East Coast (South)	45	1	34.5 frequent	14.5408 03-07-94 3:40 03-07-94 4:20	120916	1951 qcd_568170_233	-33.3472 150.8578
4546 East Coast (South) East Coast (South)	45	1	59.1 frequent	14.5668 02-11-92 23:20 02-12-92 0:00	37491	492 qcd_059040	-30.3107 153.1187
4547 East Coast (South) East Coast (South)	45	1	28.59 frequent	14.8476 12/16/1985 16:10 12/16/1985 16:50	38659	503 qcd_061089	-32.0632 150.9272
4548 East Coast (South) East Coast (South)	45	2	36.5 frequent	14.4248 2/26/2006 20:10 2/26/2006 20:50	117702	1899 qcd_567165_233	-33.6692 150.9206
4549 East Coast (South) East Coast (South)	45	2	35.8 frequent	14.5019 03-09-03 14:25 03-09-03 15:05	42841	554 qcd_067113	-33.7195 150.6783
4550 East Coast (South) East Coast (South)	45	2	35.25 frequent	14.5576 02-07-88 14:20 02-07-88 15:00	113741	1829 qcd_563070_231	-33.7 150.4847
4551 East Coast (South) East Coast (South)	45	2	37.75 frequent	14.5836 5/19/1998 1:05 5/19/1998 1:45	117318	1890 qcd_567110_231	-33.5574 151.0179
4552 East Coast (South) East Coast (South)	45	2	33.06 frequent	14.6479 4/25/1974 12:50 4/25/1974 13:30	42747	553 qcd_067035	-33.9272 150.9128
4553 East Coast (South) East Coast (South)	45	3	39.53 frequent	14.494 2/17/1993 8:50 2/17/1993 9:30	41910	542 qcd_066037	-33.9465 151.1731
4554 East Coast (South) East Coast (South)	45	3	47.25 frequent	16.5246 2/18/1984 8:30 2/18/1984 9:10	119543	1928 qcd_568097_231	-34.37 150.8197
4478 East Coast (South) East Coast (South)	45	2	35.96 intermediate	6.592 1/21/1988 16:45 1/21/1988 17:25	39436	513 qcd_061212	-32.3767 150.96
4536 East Coast (South) East Coast (South)	45	1	35 intermediate	8.9926 3/24/2008 17:35 3/24/2008 18:15	113979	1833 qcd_563076_231	-33.0503 150.4163
4537 East Coast (South) East Coast (South)	45	1	50 intermediate	3.3244 11-07-85 15:20 11-07-85 16:00	116877	1883 qcd_567087_233	-33.7342 150.7692
4538 East Coast (South) East Coast (South)	45	1	52.9 intermediate	3.5082 02-11-92 12:35 02-11-92 13:15	35248	465 qcd_056202	-28.9776 152.1552
4539 East Coast (South) East Coast (South)	45	2	65 intermediate	4.5989 3/25/2001 21:15 3/25/2001 21:55	61633	973 qcd_205006_77	-30.6405 152.856
4540 East Coast (South) East Coast (South)	45	2	33.11 intermediate	10.269 1/17/1971 18:05 1/17/1971 18:45	40227	522 qcd_061334	-33.0488 150.2325
4541 East Coast (South) East Coast (South)	45	2	65 intermediate	4.3469 10/24/1999 7:55 10/24/1999 8:35	118616	1914 qcd_568065_231	-34.2653 150.8778
4542 East Coast (South) East Coast (South)	45	2	24.4 intermediate	14.1608 11/22/2007 15:05 11/22/2007 15:45	44004	571 qcd_070080	-34.4048 149.8197
4543 East Coast (South) East Coast (South)	45	3	60 intermediate	3.6973 11-04-90 9:55 11-04-90 10:35	134740	2149 qcd_barnsley_58	-32.9228 151.5917
4544 East Coast (South) East Coast (South)	45	3	49.4 intermediate	13.3079 12-12-91 22:25 12-12-91 23:05	36850	486 qcd_058131	-28.8521 153.4556
4362 East Coast (South) East Coast (South)	45	1	78.51 rare	0.4384 02-11-97 20:35 02-11-97 21:15	35314	 465 qcd_056202	-28.9776 152.1552
4496 East Coast (South) East Coast (South)	45	2	73.34 rare	2.2242 1/31/2008 15:20 1/31/2008 16:00	118546	1913 qcd_568061_231	-34.4056 150.7097
4525 East Coast (South) East Coast (South)	45	1	41.85 rare	3.1772 12/30/1995 20:40 12/30/1995 21:20	62261	987 qcd_210055_77	-32.3809 150.7114
4526 East Coast (South) East Coast (South)	45	1	59.8 rare	1.5171 02-04-08 17:40 02-04-08 18:20	35709	470 qcd_057103	-30.0093 152.0101
4527 East Coast (South) East Coast (South)	45	2	62.6 rare	3.0333 2/13/1997 19:55 2/13/1997 20:35	61133	961 qcd_203030_77	-29.11 152.9994
4528 East Coast (South) East Coast (South)	45	2	79 rare	2.4185 2/18/1984 4:50 2/18/1984 5:30	118685	1915 qcd_568068_231	-34.4097 150.7781
4531 East Coast (South) East Coast (South)	45	2	95.64 rare	0.6534 2/16/1984 5:35 2/16/1984 6:15	118878	1918 qcd_568071_231	-34.4628 150.7333
4533 East Coast (South) East Coast (South)	45	2	93.75 rare	1.1403 10/24/1999 8:30 10/24/1999 9:10	119535	1918 qcd_568097_231	-34.37 150.8197
4534 East Coast (South) East Coast (South)	45	3	65.6 rare	0.3737 02-01-05 19:00 02-01-05 19:40	112917	1928 qcd_563049_231	-33.8675 150.2506
4535 East Coast (South) East Coast (South)	45	3	57.08 rare	0.7913 02-01-80 14:50 02-01-80 15:30	62840	1000 qcd_213005_77	-33.7982 150.9825
4555 East Coast (South) East Coast (South)	60	1	39 frequent	14.4622 03-06-90 14:30 03-06-90 15:25	116969		-33.6562 150.8477
4574 East Coast (South) East Coast (South) 4575 East Coast (South) East Coast (South)	60	1	64 frequent	14.6147 04-02-98 2:25 04-02-98 3:20	138471	1884 qcd_567100_233 2233 qcd northbonvil 58	-30.3638 153.0055
TOTO Last Coast (South) Last Coast (South)	00	1	04 nequent	17.014/ 04-02-30 2.23 04-02-30 3.20	1304/1	2233 qcu_1101t1110011VII_38	30.3030 133.0033

AF7C Foot Coost (Courth) Foot Coost (Courth)	60	1	47 fraguent	14 (204 2/25/2001 22:05 2/25/2001 22:00	C1220	062 and 204001 77	20.0702 452.725
4576 East Coast (South) East Coast (South)	60	1	47 frequent	14.6394 3/25/2001 22:05 3/25/2001 23:00	61229	963 qcd_204001_77	-29.9793 152.725
4577 East Coast (South) East Coast (South)	60	2	66.2 frequent	14.6386 1/20/1971 17:05 1/20/1971 18:00	37486	492 qcd_059040	-30.3107 153.1187
4578 East Coast (South) East Coast (South)	60	2	48.5 frequent	14.7615 08-05-86 13:10 08-05-86 14:05	115007	1848 qcd_566038_233	-33.8578 151.2788
4579 East Coast (South) East Coast (South)	60	2	45 frequent	14.8912 04-02-92 12:10 04-02-92 13:05	115438	1855 qcd_566055_233	-33.7067 151.107
4580 East Coast (South) East Coast (South)	60	2	33 frequent	14.8952 3/21/1983 13:05 3/21/1983 14:00	118202	1907 qcd_568050_231	-34.3033 150.4194
4581 East Coast (South) East Coast (South)	60	2	38.5 frequent	14.9105 02-01-05 21:15 02-01-05 22:10	117653	1898 qcd_567163_233	-33.7745 150.6716
4582 East Coast (South) East Coast (South)	60	3	38.43 frequent	14.8886 03-10-66 22:00 03-10-66 22:55	42638	552 qcd_067033	-33.6022 150.7794
4583 East Coast (South) East Coast (South)	60	3	47.5 frequent	15.3843 02-07-10 1:25 02-07-10 2:20	116371	1874 qcd_566114_233	-33.8973 151.2587
4475 East Coast (South) East Coast (South)	60	1	71.09 intermediate	3.7014 1/23/1989 11:55 1/23/1989 12:50	36849	486 qcd_058131	-28.8521 153.4556
4563 East Coast (South) East Coast (South)	60	1	42.8 intermediate	8.986 09-06-06 22:40 09-06-06 23:35	42368	546 qcd_066124	-33.7917 151.0181
4565 East Coast (South) East Coast (South)	60	1	39.12 intermediate	6.3382 1/25/2001 14:35 1/25/2001 15:30	119461	1927 qcd_568094_231	-34.3778 150.3156
4566 East Coast (South) East Coast (South)	60	2	33.4 intermediate	4.4749 02-05-10 18:30 02-05-10 19:25	44005	571 qcd_070080	-34.4048 149.8197
4567 East Coast (South) East Coast (South)	60	2	49.4 intermediate	9.8444 2/20/2005 14:50 2/20/2005 15:45	38319	499 qcd_060106	-31.6647 152.0637
4568 East Coast (South) East Coast (South)	60	2	52.6 intermediate	5.0031 2/20/2006 15:10 2/20/2006 16:05	61444	968 qcd_204030_77	-30.2587 152.0094
4569 East Coast (South) East Coast (South)	60	2	29 intermediate	4.0565 1/18/1998 14:55 1/18/1998 15:50	122389	1975 qcd_570341_231	-34.5508 149.5728
4570 East Coast (South) East Coast (South)	60	2	66.96 intermediate	5.1299 03-02-77 22:05 03-02-77 23:00	36879	486 qcd_058131	-28.8521 153.4556
4572 East Coast (South) East Coast (South)	60	3	54.28 intermediate	11.8976 3/29/1987 17:50 3/29/1987 18:45	36635	483 qcd_058113	-28.4738 153.0861
4573 East Coast (South) East Coast (South)	60	3	35 intermediate	13.5113 3/21/1983 13:05 3/21/1983 14:00	120122	1938 qcd_568140_231	-34.1467 150.4244
4360 East Coast (South) East Coast (South)	60	1	62.4 rare	0.1564 2/19/2007 15:40 2/19/2007 16:35	120662	1946 qcd_568163_231	-34.4261 150.1903
4405 East Coast (South) East Coast (South)	60	2	374.5 rare	0.1304 2/19/2007 13:40 2/19/2007 10:33	138481		-30.3638 153.0055
						2233 qcd_northbonvil_58	
4463 East Coast (South) East Coast (South)	60	3	235.87 rare	0 1/23/1991 20:20 1/23/1991 21:15	121513	1964 qcd_568296_77	-34.1437 150.6467
4555 East Coast (South) East Coast (South)	60	1	101.8 rare	0.188 02-05-01 15:25 02-05-01 16:20	38384	500 qcd_060112	-32.0525 151.9147
4556 East Coast (South) East Coast (South)	60	1	73.26 rare	1.3479 8/21/1971 17:00 8/21/1971 17:55	42072	543 qcd_066062	-33.8607 151.205
4557 East Coast (South) East Coast (South)	60	2	84.5 rare	0.6129 04-10-98 15:25 04-10-98 16:20	115645	1859 qcd_566071_233	-33.7338 151.2208
4558 East Coast (South) East Coast (South)	60	2	71 rare	1.3749 1/24/1999 7:05 1/24/1999 8:00	116054	1866 qcd_566088_233	-33.9599 151.2515
4559 East Coast (South) East Coast (South)	60	2	135.5 rare	0.0627 10/24/1987 5:30 10/24/1987 6:25	118605	1914 qcd_568065_231	-34.2653 150.8778
4560 East Coast (South) East Coast (South)	60	2	85 rare	0.5813 12-02-03 14:15 12-02-03 15:10	38318	499 qcd_060106	-31.6647 152.0637
4561 East Coast (South) East Coast (South)	60	3	53.5 rare	2.1486 02-10-95 17:45 02-10-95 18:40	111567	1801 qcd_561104_231	-32.9777 150.5829
4600 East Coast (South) East Coast (South)	90	1	49 frequent	14.7149 4/30/1988 10:40 4/30/1988 12:05	115095	1849 qcd_566040_233	-33.7698 151.0671
4602 East Coast (South) East Coast (South)	90	1	34.81 frequent	15.2717 12/28/1996 23:15 12/29/1996 0:40	38690	503 qcd_061089	-32.0632 150.9272
4603 East Coast (South) East Coast (South)	90	1	52 frequent	15.2796 04-10-01 4:45 04-10-01 6:10	115987	1864 qcd_566085_233	-33.7629 151.1945
4604 East Coast (South) East Coast (South)	90	2	41.5 frequent	14.5651 1/31/2001 3:10 1/31/2001 4:35	116653	1878 qcd_567078_233	-33.9827 150.9071
4605 East Coast (South) East Coast (South)	90	2	44 frequent	14.6877 2/15/1994 21:25 2/15/1994 22:50	116901	1883 qcd_567087_233	-33.7342 150.7692
4606 East Coast (South) East Coast (South)	90	2	51 frequent	14.7957 06-10-91 17:10 06-10-91 18:35	115423	1854 qcd_566053_233	-33.6672 151.1047
4607 East Coast (South) East Coast (South)	90	2	59.34 frequent	14.9778 07-10-62 12:50 07-10-62 14:15	37652	493 qcd_059067	-30.3439 152.7128
4608 East Coast (South) East Coast (South)	90	2	49 frequent	14.9856 02-04-02 15:20 02-04-02 16:45	116185	1869 qcd_566092_233	-34.0295 151.0711
4609 East Coast (South) East Coast (South)	90	3	78.87 frequent	14.5338 12-12-91 23:05 12/13/1991 0:30	37524	492 gcd 059040	-30.3107 153.1187
4610 East Coast (South) East Coast (South)	90	3	62.5 frequent	15.4796 8/17/1998 12:25 8/17/1998 13:50	118903	1918 qcd_568071_231	-34.4628 150.7333
4482 East Coast (South) East Coast (South)	90	1	50.08 intermediate	6.6644 2/14/2001 15:55 2/14/2001 17:20	111682	1803 qcd_561107_231	-33.0288 150.8741
4564 East Coast (South) East Coast (South)	90	1	56 intermediate	4.2664 09-06-06 22:35 09-07-06 0:00	42368	546 qcd_066124	-33.7917 151.0181
		1	35.87 intermediate	13.4921 10/28/1984 14:50 10/28/1984 16:15	38685	- -	-32.0632 150.9272
4589 East Coast (South) East Coast (South)	90	2				503 qcd_061089	
4590 East Coast (South) East Coast (South)	90	2	60.2 intermediate	13.9557 11-09-04 4:10 11-09-04 5:35	37748	494 qcd_060030	-31.9033 152.4496
4592 East Coast (South) East Coast (South)	90	2	63.5 intermediate	3.3943 2/17/1993 7:20 2/17/1993 8:45	116226	1870 qcd_566094_233	-34.0399 150.9992
4593 East Coast (South) East Coast (South)	90	2	43.13 intermediate	11.8234 09-01-70 18:10 09-01-70 19:35	42765	553 qcd_067035	-33.9272 150.9128
4594 East Coast (South) East Coast (South)	90	2	79.8 intermediate	9.3675 10-03-10 21:40 10-03-10 23:05	37024	487 qcd_058158	-28.3395 153.3809
4595 East Coast (South) East Coast (South)	90	2	73.68 intermediate	8.1478 2/15/1995 13:45 2/15/1995 15:10	36876	486 qcd_058131	-28.8521 153.4556
4597 East Coast (South) East Coast (South)	90	3	58.6 intermediate	9.6226 12-05-07 7:40 12-05-07 9:05	42488	548 qcd_066142	-33.6761 151.1818
4598 East Coast (South) East Coast (South)	90	3	47.6 intermediate	12.6553 10/29/2007 6:00 10/29/2007 7:25	35723	470 qcd_057103	-30.0093 152.0101
4395 East Coast (South) East Coast (South)	90	3	128 rare	0.0096 12-05-89 2:20 12-05-89 3:45	114882	1847 qcd_566037_233	-33.8085 151.0907
4430 East Coast (South) East Coast (South)	90	1	157.35 rare	0.0071 11-08-84 21:55 11-08-84 23:20	42099	543 qcd_066062	-33.8607 151.205
4465 East Coast (South) East Coast (South)	90	1	194.5 rare	0.1207 3/31/2009 12:55 3/31/2009 14:20	137954	2223 qcd_middleboamb_58	-30.3262 153.048
4501 East Coast (South) East Coast (South)	90	2	153.5 rare	1.00E-04 02-11-07 4:15 02-11-07 5:40	120109	1938 qcd_568140_231	-34.1467 150.4244
4532 East Coast (South) East Coast (South)	90	2	178.81 rare	0.03 2/16/1984 5:15 2/16/1984 6:40	118878	1918 qcd_568071_231	-34.4628 150.7333
4562 East Coast (South) East Coast (South)	90	3	70 rare	0.7708	111567	1801 qcd_561104_231	-32.9777 150.5829
4584 East Coast (South) East Coast (South)	90	1	64.83 rare	2.8376 02-06-77 16:45 02-06-77 18:10	35701	470 qcd_057103	-30.0093 152.0101
4585 East Coast (South) East Coast (South)	90	2	52.7 rare	1.7458 02-01-05 18:20 02-01-05 19:45	112482	1813 qcd_563042_231	-33.8883 150.0456
4586 East Coast (South) East Coast (South)	90	2	88.59 rare	0.4497 03-10-75 9:40 03-10-75 11:05	41940	542 qcd_066037	-33.9465 151.1731
4588 East Coast (South) East Coast (South)	90	2	130.8 rare	1.9768 11-06-09 18:50 11-06-09 20:15	37517	492 qcd 059040	-30.3107 153.1187
4632 East Coast (South) East Coast (South)	120	1	59.65 frequent	14.4488 11-10-75 19:50 11-10-75 21:45	37240	489 qcd_059000	-30.8141 152.5129
4635 East Coast (South) East Coast (South)	120	1	61.34 frequent	14.5641 3/30/2002 10:05 3/30/2002 12:00	61670	975 qcd_206011_77	-31.0082 152.7126
4636 East Coast (South) East Coast (South)	120	1	37.9 frequent	14.6687 1/21/1976 15:20 1/21/1976 17:15	38754	503 qcd 061089	-32.0632 150.9272
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ACOR Foot Coast (South) Foot Coast (South)	120	2	FO 20 fraguent	14 5500 5/20/1010 5:50 - 5/20/1010 7:45	42120	E43 and 000003	22 0007 454 205
4638 East Coast (South) East Coast (South)	120	2	59.38 frequent	14.5589 5/26/1919 5:50 5/26/1919 7:45	42130	543 qcd_066062	-33.8607 151.205
4640 East Coast (South) East Coast (South)	120	2	64.25 frequent	14.5777 02-02-90 15:15 02-02-90 17:10	134938	2153 qcd_berkeleyval_58	-33.3467 151.42
4641 East Coast (South) East Coast (South)	120	2	42.49 frequent	14.7009 12-05-95 13:10 12-05-95 15:05	111574	1801 qcd_561104_231	-32.9777 150.5829
4642 East Coast (South) East Coast (South)	120	2	51.2 frequent	14.7505 1/25/1956 20:25 1/25/1956 22:20	114897	1847 qcd_566037_233	-33.8085 151.0907
4643 East Coast (South) East Coast (South)	120	2	46.58 frequent	14.8011 1/15/1963 19:40 1/15/1963 21:35	42667	552 qcd_067033	-33.6022 150.7794
4644 East Coast (South) East Coast (South)	120	3	45.5 frequent	14.6782 12-07-07 15:00 12-07-07 16:55	111513	1800 qcd_561103_231	-32.8241 150.7944
4645 East Coast (South) East Coast (South)	120	3	80.8 frequent	14.8082 2/16/2009 18:55 2/16/2009 20:50	37442	491 qcd_059026	-30.3076 152.9874
4621 East Coast (South) East Coast (South)	120	1	44.47 intermediate	13.8933 12/26/1971 16:00 12/26/1971 17:55	39701	516 qcd_061240	-32.9667 151.1333
4622 East Coast (South) East Coast (South)	120	1	63 intermediate	5.6603 4/30/1988 8:25 4/30/1988 10:20	116487	1876 qcd_567076_233	-33.7111 150.9842
4623 East Coast (South) East Coast (South)	120	1	60.29 intermediate	13.2515 12-05-64 12:15 12-05-64 14:10	35991	475 qcd_058025	-29.7067 152.94
4624 East Coast (South) East Coast (South)	120	2	79.25 intermediate	6.5825 06-09-07 2:40 06-09-07 4:35	137622	2216 gcd lisarow 58	-33.3833 151.375
		2				· = =	-34.4048 149.8197
4625 East Coast (South) East Coast (South)	120		34.8 intermediate		44003	571 qcd_070080	
4626 East Coast (South) East Coast (South)	120	2	69.8 intermediate	7.8857 02-01-02 14:30 02-01-02 16:25	38087	497 qcd_060085	-31.3865 152.2482
4628 East Coast (South) East Coast (South)	120	2	87 intermediate	10.2057 2/24/2004 11:40 2/24/2004 13:35	61007	958 qcd_201001_77	-28.3537 153.2931
4629 East Coast (South) East Coast (South)	120	2	75.2 intermediate	12.1396 1/15/1972 18:55 1/15/1972 20:50	36858	486 qcd_058131	-28.8521 153.4556
4630 East Coast (South) East Coast (South)	120	3	58.5 intermediate	8.2216 5/19/1998 2:00 5/19/1998 3:55	117430	1893 qcd_567147_233	-33.7437 150.9924
4631 East Coast (South) East Coast (South)	120	3	45.6 intermediate	14.3767 2/20/2001 21:35 2/20/2001 23:30	39937	519 qcd_061288	-32.3322 151.4595
4431 East Coast (South) East Coast (South)	120	1	180.5 rare	0.0045 11-08-84 21:45 11-08-84 23:40	42099	543 qcd_066062	-33.8607 151.205
4499 East Coast (South) East Coast (South)	120	3	102.74 rare	0.319 12/13/1963 2:00 12/13/1963 3:55	41915	542 qcd_066037	-33.9465 151.1731
4571 East Coast (South) East Coast (South)	120	2	114.69 rare	1.4749 03-02-77 22:10 03-03-77 0:05	36879	486 qcd 058131	-28.8521 153.4556
4611 East Coast (South) East Coast (South)	120	1	76.2 rare	1.8083 1/28/1999 16:45 1/28/1999 18:40	61449	968 qcd_204030_77	-30.2587 152.0094
4613 East Coast (South) East Coast (South)	120	1	50.17 rare	0.5187 1/16/2006 13:30 1/16/2006 15:25	62723	998 qcd 21210065 77	-34.6595 149.5608
		2				· - -	-33.7067 151.107
4614 East Coast (South) East Coast (South)	120	2	97.25 rare	1.4083 4/29/1988 20:25 4/29/1988 22:20	115499	1855 qcd_566055_233	
4615 East Coast (South) East Coast (South)	120	2	77.47 rare	2.3992 01-08-73 2:25 01-08-73 4:20	41931	542 qcd_066037	-33.9465 151.1731
4617 East Coast (South) East Coast (South)	120	2	64.59 rare	0.9401 1/18/1998 17:40 1/18/1998 19:35	40229	522 qcd_061334	-33.0488 150.2325
4618 East Coast (South) East Coast (South)	120	2	74.5 rare	3.1801 2/13/1988 12:25 2/13/1988 14:20	114405	1842 qcd_566026_233	-33.9226 151.1556
4619 East Coast (South) East Coast (South)	120	3	54.58 rare	2.6184 11/30/1965 14:20 11/30/1965 16:15	40524	526 qcd_062020	-32.5014 150.0333
4646 East Coast (South) East Coast (South)	180	3	97.4 frequent	14.5448 2/16/2009 17:45 2/16/2009 20:40	37442	491 qcd_059026	-30.3076 152.9874
4669 East Coast (South) East Coast (South)	180	1	48.2 frequent	14.568 11/28/2008 19:30 11/28/2008 22:25	38214	498 qcd_060104	-31.4138 151.598
4670 East Coast (South) East Coast (South)	180	1	42.31 frequent	14.8405 10-12-85 19:05 10-12-85 22:00	38711	503 qcd_061089	-32.0632 150.9272
4673 East Coast (South) East Coast (South)	180	1	64.32 frequent	15.1253 11/14/1969 4:20 11/14/1969 7:15	41949	542 qcd_066037	-33.9465 151.1731
4674 East Coast (South) East Coast (South)	180	2	72.28 frequent	14.4315 02-02-90 13:00 02-02-90 15:55	138396	2231 gcd narara 58	-33.395 151.3267
4675 East Coast (South) East Coast (South)	180	2	73.52 frequent	14.4849 3/19/1978 3:55 3/19/1978 6:50	37909	496 qcd_060080	-31.6274 152.443
4676 East Coast (South) East Coast (South)	180	2	66.03 frequent	14.7058 06-08-07 13:45 06-08-07 16:40	140925	2279 qcd yarramalong 58	-33.2283 151.2617
4677 East Coast (South) East Coast (South)		2	•	14.7403 7/26/1952 5:05 7/26/1952 8:00			
, , , , , ,	180		68.58 frequent		42135	543 qcd_066062	-33.8607 151.205
4679 East Coast (South) East Coast (South)	180	2	67.6 frequent	14.7988 06-12-67 11:20 06-12-67 14:15	36139	476 qcd_058026	-28.4414 152.8296
4681 East Coast (South) East Coast (South)	180	3	66.5 frequent	14.429 1/23/1989 1:40 1/23/1989 4:35	115297	1852 qcd_566051_233	-33.6912 151.2993
4627 East Coast (South) East Coast (South)	180	1	93.8 intermediate	3.5927 02-01-02 14:35 02-01-02 17:30	38087	497 qcd_060085	-31.3865 152.2482
4639 East Coast (South) East Coast (South)	180	1	74.31 intermediate	10.5251 5/26/1919 5:50 5/26/1919 8:45	42130	543 qcd_066062	-33.8607 151.205
4658 East Coast (South) East Coast (South)	180	1	82.61 intermediate	5.6788 2/13/1997 18:00 2/13/1997 20:55	36491	481 qcd_058099	-29.2823 152.9886
4659 East Coast (South) East Coast (South)	180	2	57.98 intermediate	12.1292 1/21/1956 15:10 1/21/1956 18:05	35202	463 qcd_056059	-29.05 152.1
4662 East Coast (South) East Coast (South)	180	2	75.5 intermediate	4.2805 02-07-90 0:15 02-07-90 3:10	106132	1856 qcd_566064_233	-33.8551 151.1075
4663 East Coast (South) East Coast (South)	180	2	72.08 intermediate	6.1949 3/24/1978 6:30 3/24/1978 9:25	38857	504 qcd_061151	-32.2426 151.683
4665 East Coast (South) East Coast (South)	180	2	99.09 intermediate	8.1192 1/16/1988 1:45 1/16/1988 4:40	36882	486 qcd_058131	-28.8521 153.4556
4666 East Coast (South) East Coast (South)	180	2	68.93 intermediate	13.3535 05-09-07 19:45 05-09-07 22:40	134712	2148 qcd avalon 58	-33.6408 151.3288
4667 East Coast (South) East Coast (South)	180	2	106.24 intermediate	3.7737 07-06-88 5:00 07-06-88 7:55	119561	1929 qcd_568102_231	-34.5522 150.6317
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4668 East Coast (South) East Coast (South)	180	3	71 intermediate	9.5705 4/13/2009 14:25 4/13/2009 17:20	116144	1868 qcd_566091_233	-33.9467 151.1609
4469 East Coast (South) East Coast (South)	180	1	142.2 rare	1.3489 1/19/2006 11:55 1/19/2006 14:50	36868	486 qcd_058131	-28.8521 153.4556
4599 East Coast (South) East Coast (South)	180	3	81.4 rare	1.9004 10/29/2007 5:05 10/29/2007 8:00	35723	470 qcd_057103	-30.0093 152.0101
4612 East Coast (South) East Coast (South)	180	1	106 rare	0.4439 1/28/1999 16:40 1/28/1999 19:35	61449	968 qcd_204030_77	-30.2587 152.0094
4647 East Coast (South) East Coast (South)	180	1	110.5 rare	1.4614 04-10-98 7:15 04-10-98 10:10	114627	1845 qcd_566032_233	-33.887 151.2253
4648 East Coast (South) East Coast (South)	180	2	121.5 rare	1.9402 2/18/1984 5:35 2/18/1984 8:30	119585	1929 qcd_568102_231	-34.5522 150.6317
4649 East Coast (South) East Coast (South)	180	2	114.31 rare	2.663 03-02-76 3:55 03-02-76 6:50	37742	494 qcd_060030	-31.9033 152.4496
4651 East Coast (South) East Coast (South)	180	2	95.07 rare	0.3723 4/15/1969 17:45 4/15/1969 20:40	42431	547 qcd_066137	-33.9181 150.9864
4652 East Coast (South) East Coast (South)	180	2	51.6 rare	3.0027 02-05-01 8:05 02-05-01 11:00	44007	571 qcd 070080	-34.4048 149.8197
4653 East Coast (South) East Coast (South)	180	2	167.63 rare	0.3497 2/28/1976 12:20 2/28/1976 15:15	36900	486 qcd_058131	-28.8521 153.4556
4656 East Coast (South) East Coast (South)	180	2	89.81 rare	2.6465 3/19/1978 9:40 3/19/1978 12:35	38353	499 gcd 060106	-31.6647 152.0637
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2749 East Coast (South) East Coast (South)	270	5 4	83.13 frequent	14.8977 06-11-91 5:00 06-11-91 9:25	118834	1917 qcd_568070_231	-34.5542 150.5694
4706 East Coast (South) East Coast (South)	270	1	54.6 frequent	14.6612 2/14/2001 17:45 2/14/2001 22:10	40066	520 qcd_061309	-32.6881 150.9728
4707 East Coast (South) East Coast (South)	270	1	84.5 frequent	14.8298 1/31/2001 0:55 1/31/2001 5:20	116373	1874 qcd_566114_233	-33.8973 151.2587
4708 East Coast (South) East Coast (South)	270	1	40.4 frequent	15.0529 5/13/1995 16:20 5/13/1995 20:45	122402	1975 qcd_570341_231	-34.5508 149.5728

4709 East Coast (South) East Coast (South)	270	2	103.2 frequent	14.6801 2/24/2004 10:40 2/24/2004 15:05	36658	483 qcd_058113	-28.4738 153.0861
4711 East Coast (South) East Coast (South)	270	2	62.47 frequent	14.7286 8/20/2007 2:05 8/20/2007 6:30	117204	1888 qcd_567108_231	-33.3846 150.9867
4712 East Coast (South) East Coast (South)	270	2	62.5 frequent	14.8535 4/30/1988 7:35 4/30/1988 12:00	116911	1883 qcd_567087_233	-33.7342 150.7692
4715 East Coast (South) East Coast (South)	270	2	113.9 frequent	14.964 03-10-74 11:45 03-10-74 16:10	36786	485 qcd_058129	-28.4659 153.2631
4717 East Coast (South) East Coast (South)	270	2	52.35 frequent	15.1318 7/23/1986 2:55 7/23/1986 7:20	119482	1927 qcd_568094_231	-34.3778 150.3156
4718 East Coast (South) East Coast (South)	270	3	76 frequent	14.8908 5/18/1998 23:35 5/19/1998 4:00	117515	1895 qcd_567149_233	-33.7452 151.0382
4664 East Coast (South) East Coast (South)	270	1	85.23 intermediate	6.1522 3/24/1978 6:30 3/24/1978 10:55	38857	504 qcd_061151	-32.2426 151.683
4671 East Coast (South) East Coast (South)	270	1	50.73 intermediate	11.8087 10-12-85 18:50 10-12-85 23:15	38711	503 qcd_061089	-32.0632 150.9272
4695 East Coast (South) East Coast (South)	270	1	88.75 intermediate	10.3369 05-10-25 9:20 05-10-25 13:45	42153	543 qcd_066062	-33.8607 151.205
4698 East Coast (South) East Coast (South)	270	2	94.49 intermediate	8.7196 2/18/1984 5:35 2/18/1984 10:00	118810	1917 qcd_568070_231	-34.5542 150.5694
4699 East Coast (South) East Coast (South)	270	2	112.4 intermediate	3.3388 1/17/1988 0:50 1/17/1988 5:15	42143	543 qcd_066062	-33.8607 151.205
4700 East Coast (South) East Coast (South)	270	2	56.11 intermediate	10.0568 6/23/1975 1:00 6/23/1975 5:25	39445	513 qcd_061212	-32.3767 150.96
4701 East Coast (South) East Coast (South)	270	2	85.37 intermediate	12.1779 7/23/1950 9:15 7/23/1950 13:40	42134	543 qcd_066062	-33.8607 151.205
4702 East Coast (South) East Coast (South)	270	2	98 intermediate	13.466 8/31/1996 4:25 8/31/1996 8:50	121444	1962 qcd_568189_233	-34.1891 150.9794
4704 East Coast (South) East Coast (South)	270	3	120.8 intermediate	4.3174 03-08-00 0:30 03-08-00 4:55	37758	494 qcd_060030	-31.9033 152.4496
4705 East Coast (South) East Coast (South)	270	3	61.71 intermediate	14.1339 2/23/1970 14:15 2/23/1970 18:40	35273	467 qcd_057056	-30.75 152.0667
4616 East Coast (South) East Coast (South)	270	2	142.09 rare	0.4233 01-08-73 0:20 01-08-73 4:45	41931	542 qcd_066037	-33.9465 151.1731
4620 East Coast (South) East Coast (South)	270	3	90.1 rare	0.5436 11/30/1965 11:55 11/30/1965 16:20	40524	526 qcd_062020	-32.5014 150.0333
4650 East Coast (South) East Coast (South)	270	2	158.66 rare	1.1265 03-02-76 2:30 03-02-76 6:55	37742	494 qcd_060030	-31.9033 152.4496
4682 East Coast (South) East Coast (South)	270	1	92 rare	3.1051 03-07-94 9:05 03-07-94 13:30	116729	1880 qcd_567083_233	-33.8192 150.9127
4683 East Coast (South) East Coast (South)	270	1	203.75 rare	0.3725 10/24/1987 13:00 10/24/1987 17:25	118049	1905 qcd_568048_231	-34.265 150.8058
4684 East Coast (South) East Coast (South)	270	1	119.31 rare	3.0235 03-10-58 2:20 03-10-58 6:45	42283	544 qcd_066063	-33.7206 151.1128
4685 East Coast (South) East Coast (South)	270	2	122.5 rare	2.3209 1/17/1988 1:00 1/17/1988 5:25	114631	1845 qcd_566032_233	-33.887 151.2253
4686 East Coast (South) East Coast (South)	270	2	177.81 rare	1.3227 03-10-74 13:25 03-10-74 17:50	36926	486 qcd_058131	-28.8521 153.4556
4692 East Coast (South) East Coast (South)	270	2	128 rare	1.4991 11-05-84 10:40 11-05-84 15:05	114542	1844 qcd_566028_233	-33.9265 151.2144
4693 East Coast (South) East Coast (South)	270	3	151 rare	0.1366 08-05-86 11:55 08-05-86 16:20	114919	1847 qcd_566037_233	-33.8085 151.0907
4732 East Coast (South) East Coast (South)	360	1	116.34 frequent	14.566 10/24/1987 8:45 10/24/1987 14:40	118119	1906 qcd_568049_231	-34.3264 150.7417
4734 East Coast (South) East Coast (South)	360	1	134.72 frequent	14.7579 2/21/1970 9:20 2/21/1970 15:15	36310	478 qcd_058072	-28.6533 153.4542
4735 East Coast (South) East Coast (South)	360	1	85.5 frequent	15.2526 02-02-90 11:25 02-02-90 17:20	115610	1857 qcd_566065_233	-33.8773 151.1673
4736 East Coast (South) East Coast (South)	360	2	98.24 frequent	14.4332 3/19/1978 6:15 3/19/1978 12:10	37770	494 qcd_060030	-31.9033 152.4496
4737 East Coast (South) East Coast (South)	360	2	45.35 frequent	14.4421 3/14/1989 14:45 3/14/1989 20:40	62655	996 qcd_21210063_77	-34.6438 149.5583
4738 East Coast (South) East Coast (South)	360	2	139.28 frequent	14.7063 8/17/1998 13:10 8/17/1998 19:05	118708	1915 qcd_568068_231	-34.4097 150.7781
4739 East Coast (South) East Coast (South)	360	2	54.86 frequent	14.78 12-07-96 0:45 12-07-96 6:40	62032	982 qcd_208009_77	-31.5795 151.3154
4740 East Coast (South) East Coast (South)	360	2	76.43 frequent	14.9557 10/27/1999 11:10 10/27/1999 17:05	61490	969 qcd_204033_77	-29.1934 152.2516
4741 East Coast (South) East Coast (South)	360	3	84.5 frequent	14.5009 8/31/1996 0:35 8/31/1996 6:30	115096	1849 qcd_566040_233	-33.7698 151.0671
4742 East Coast (South) East Coast (South)	360	3	82 frequent	14.827 02-09-92 0:15 02-09-92 6:10	115663	1858 qcd_566068_233	-33.7389 151.2814
4591 East Coast (South) East Coast (South)	360	2	121.4 intermediate	6.5222 11-09-04 2:30 11-09-04 8:25	37748	494 qcd_060030	-31.9033 152.4496
4660 East Coast (South) East Coast (South)	360	1	79.26 intermediate	6.8414 1/21/1956 14:45 1/21/1956 20:40	35202	463 qcd_056059	-29.05 152.1
4672 East Coast (South) East Coast (South)	360	1	56.4 intermediate	10.5924 10-12-85 18:50 10/13/1985 0:45	38711	503 qcd_061089	-32.0632 150.9272
4678 East Coast (South) East Coast (South)	360	3	92.38 intermediate	13.5946 7/26/1952 2:20 7/26/1952 8:15	42135	543 qcd_066062	-33.8607 151.205
4696 East Coast (South) East Coast (South)	360	2	102.56 intermediate	8.8017 05-10-25 7:35 05-10-25 13:30	42153	543 qcd_066062	-33.8607 151.205
4725 East Coast (South) East Coast (South)	360	1	74.88 intermediate	8.6787 1/28/1970 8:30 1/28/1970 14:25	39049	506 qcd 061158	-32.5067 151.3779
4726 East Coast (South) East Coast (South)	360	2	88.5 intermediate	4.4773 06-10-91 14:10 06-10-91 20:05	116596	1877 qcd_567077_233	-33.8807 150.9504
4729 East Coast (South) East Coast (South)	360	2	99.06 intermediate	8.7497 03-09-01 3:00 03-09-01 8:55	61381	966 qcd_204008_77	-30.4037 152.3469
4730 East Coast (South) East Coast (South)	360	2	94 intermediate	8.9069 02-04-08 18:40 02-05-08 0:35	116236	1870 qcd_566094_233	-34.0399 150.9992
4731 East Coast (South) East Coast (South)	360	3	114 intermediate	3.3619 1/30/2001 23:05 1/31/2001 5:00	116235	1870 qcd_566094_233	-34.0399 150.9992
4406 East Coast (South) East Coast (South)	360	3	1121.5 rare	0 11/23/1996 15:15 11/23/1996 21:10	138481	2233 qcd_northbonvil_58	-30.3638 153.0055
4529 East Coast (South) East Coast (South)	360	1	288.24 rare	0.3702 2/18/1984 3:35 2/18/1984 9:30	118685	1915 qcd_568068_231	-34.4097 150.7781
4587 East Coast (South) East Coast (South)	360	1	174.74 rare	0.2208 03-10-75 9:30 03-10-75 15:25	41940	542 qcd_066037	-33.9465 151.1731
4596 East Coast (South) East Coast (South)	360	2	229.66 rare	0.4716 2/15/1995 10:30 2/15/1995 16:25	36876	486 qcd_058131	-28.8521 153.4556
4694 East Coast (South) East Coast (South)	360	2	174 rare	0.1159 08-05-86 12:10 08-05-86 18:05	114919	1847 qcd_566037_233	-33.8085 151.0907
4719 East Coast (South) East Coast (South)	360	1	84.2 rare	2.0926 11/19/2001 17:00 11/19/2001 22:55	35857	471 qcd_057104	-31.2739 151.9655
4720 East Coast (South) East Coast (South)	360	2	144 rare	1.8947 03-09-01 2:55 03-09-01 8:50	61233	963 qcd_204001_77	-29.9793 152.725
4721 East Coast (South) East Coast (South)	360	2	139.8 rare	1.7692 2/17/2009 2:55 2/17/2009 8:50	38145	497 qcd_060085	-31.3865 152.2482
4722 East Coast (South) East Coast (South)	360	2	156.51 rare	0.1051 02-10-56 1:35 02-10-56 7:30	42653	552 qcd_067033	-33.6022 150.7794
4723 East Coast (South) East Coast (South)	360	3	103.23 rare	0.5906 06-08-07 5:10 06-08-07 11:05	62383	989 qcd_210076_77	-32.3366 150.9824
4767 East Coast (South) East Coast (South)	540	1	61.08 frequent	14.5948 1/21/1976 15:20 1/22/1976 0:15	38716	503 qcd_061089	-32.0632 150.9272
4768 East Coast (South) East Coast (South)	540	1	135.2 frequent	15.6361 03-05-04 16:35 03-06-04 1:30	36231	477 qcd_058044	-28.5966 153.2233
4769 East Coast (South) East Coast (South)	540	2	113.6 frequent	14.4735 8/20/2007 0:15 8/20/2007 9:10	40340	523 qcd_061351	-33.3102 151.2443
4770 East Coast (South) East Coast (South)	540	2	166.2 frequent	14.4892 02-01-01 8:00 02-01-01 16:55	36771	485 qcd_058129	-28.4659 153.2631
4771 East Coast (South) East Coast (South)	540	2	86.22 frequent	14.552 07-05-88 15:45 07-06-88 0:40	117929	1903 qcd 568045 231	-33.8915 150.5923
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4772 East Coast (South) East Coast (South)	540	2	101.01 frequent	14.7462 2/23/2003 20:15 2/24/2003 5:10	61146	961 qcd_203030_77	-29.11 152.9994
4773 East Coast (South) East Coast (South)	540	2	114.78 frequent	15.0757 9/24/1995 21:40 9/25/1995 6:35	115361	1853 qcd_566052_231	-34.1181 150.9333
4774 East Coast (South) East Coast (South)	540	3	105 frequent	14.8157 06-10-91 15:00 06-10-91 23:55	114429	1842 qcd_566026_233	-33.9226 151.1556
4775 East Coast (South) East Coast (South)	540	3	64.81 frequent	15.0794 01-04-68 12:10 01-04-68 21:05	39451	513 qcd_061212	-32.3767 150.96
4776 East Coast (South) East Coast (South)	540	3	108.8 frequent	15.1527 6/14/2011 13:40 6/14/2011 22:35	38124	497 qcd_060085	-31.3865 152.2482
4697 East Coast (South) East Coast (South)	540	3	131.03 intermediate	7.0866 05-10-25 4:30 05-10-25 13:25	42153	543 qcd_066062	-33.8607 151.205
4756 East Coast (South) East Coast (South)	540	1	94 intermediate	7.8432 02-11-07 5:55 02-11-07 14:50	120515	1943 qcd_568156_233	-34.0482 150.73
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4757 East Coast (South) East Coast (South)	540	_	121 intermediate	6.1419 2/23/2004 20:50 2/24/2004 5:45	37092	488 qcd_058192	-28.9883 152.8809
4759 East Coast (South) East Coast (South)	540	2	72.7 intermediate	14.1796 10/23/1999 18:50 10/24/1999 3:45	118220	1907 qcd_568050_231	-34.3033 150.4194
4760 East Coast (South) East Coast (South)	540	2	67.92 intermediate	12.3799 01-12-68 15:35 1/13/1968 0:30	35933	472 qcd_057105	-31.0667 151.9167
4761 East Coast (South) East Coast (South)	540	2	64.61 intermediate	7.0654 6/27/1997 4:30 6/27/1997 13:25	62536	993 qcd_21210060_77	-34.6423 149.5663
4763 East Coast (South) East Coast (South)	540	2	99.82 intermediate	10.9007 6/21/1969 8:10 6/21/1969 17:05	38871	504 qcd_061151	-32.2426 151.683
4764 East Coast (South) East Coast (South)	540	2	101 intermediate	5.5891 02-04-08 23:40 02-05-08 8:35	120943	1951 qcd_568170_233	-33.3472 150.8578
4765 East Coast (South) East Coast (South)	540	3	72.88 intermediate	13.3369 4/28/1963 9:15 4/28/1963 18:10	39259	511 qcd_061209	-32.9597 150.675
4766 East Coast (South) East Coast (South)	540	3	84.8 intermediate	12.9246 02-05-02 1:35 02-05-02 10:30	39624	515 qcd_061238	-32.8143 151.3025
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4442 East Coast (South) East Coast (South)	540	2	186 rare		116588	1877 qcd_567077_233	-33.8807 150.9504
4530 East Coast (South) East Coast (South)	540	1	385.5 rare	0.2514 2/18/1984 3:00 2/18/1984 11:55	118685	1915 qcd_568068_231	-34.4097 150.7781
4601 East Coast (South) East Coast (South)	540	2	186 rare	1.0209 4/30/1988 8:35 4/30/1988 17:30	115095	1849 qcd_566040_233	-33.7698 151.0671
4657 East Coast (South) East Coast (South)	540	3	165.66 rare	0.8794 3/19/1978 5:55 3/19/1978 14:50	38353	499 qcd_060106	-31.6647 152.0637
4743 East Coast (South) East Coast (South)	540	1	208.4 rare	1.2902 02-01-01 8:45 02-01-01 17:40	61099	960 qcd_203010_77	-28.7365 153.164
4744 East Coast (South) East Coast (South)	540	2	204.15 rare	2.3914 2/24/1975 9:10 2/24/1975 18:05	37917	496 qcd_060080	-31.6274 152.443
4745 East Coast (South) East Coast (South)	540	2	168 rare	2.2899 1/16/1988 21:30 1/17/1988 6:25	115004	1848 qcd_566038_233	-33.8578 151.2788
4746 East Coast (South) East Coast (South)	540	2	139.67 rare	2.3396 10/21/1967 0:50 10/21/1967 9:45	38882	504 qcd_061151	-32.2426 151.683
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4750 East Coast (South) East Coast (South)	540	_	173.99 rare	2.4593 02-09-92 16:30 02-10-92 1:25	140832	2276 qcd_wyoming_58	-33.4117 151.3483
4754 East Coast (South) East Coast (South)	540	3	205.63 rare	0.6488 03-10-74 12:55 03-10-74 21:50	36385	479 qcd_058076	-29.7 152.9333
4802 East Coast (South) East Coast (South)	720	1	90.61 frequent	14.5779 02-03-90 21:05 02-04-90 9:00	42702	552 qcd_067033	-33.6022 150.7794
4804 East Coast (South) East Coast (South)	720	1	97.75 frequent	15.7445 02-09-92 1:00 02-09-92 12:55	42457	547 qcd_066137	-33.9181 150.9864
4805 East Coast (South) East Coast (South)	720	2	123.64 frequent	14.4418 01-09-49 18:55 01-10-49 6:50	42157	543 qcd_066062	-33.8607 151.205
4806 East Coast (South) East Coast (South)	720	2	154.12 frequent	14.5973 3/21/1983 0:35 3/21/1983 12:30	118820	1917 qcd_568070_231	-34.5542 150.5694
4807 East Coast (South) East Coast (South)	720	2	91.97 frequent	14.618 3/19/1978 8:20 3/19/1978 20:15	39972	519 qcd_061288	-32.3322 151.4595
4808 East Coast (South) East Coast (South)	720	2	103.23 frequent	14.9758 10-11-82 1:10 10-11-82 13:05	38339	499 gcd 060106	-31.6647 152.0637
4809 East Coast (South) East Coast (South)	720	2	125.72 frequent	15.0094 9/24/1995 23:45 9/25/1995 11:40	117998	· -	-34.3306 150.6097
		_	•			1904 qcd_568047_231	
4810 East Coast (South) East Coast (South)	720	3	90.58 frequent	14.645 5/22/1981 19:20 5/23/1981 7:15	39632	515 qcd_061238	-32.8143 151.3025
4811 East Coast (South) East Coast (South)	720	3	129.51 frequent	14.7289 03-11-74 1:35 03-11-74 13:30	37780	494 qcd_060030	-31.9033 152.4496
4813 East Coast (South) East Coast (South)	720	3	62.69 frequent	14.8205 8/23/2003 13:05 8/24/2003 1:00	113934	1832 qcd_563075_231	-33.1213 150.046
4703 East Coast (South) East Coast (South)	720	2	187 intermediate	6.3822 8/31/1996 0:55 8/31/1996 12:50	121444	1962 qcd_568189_233	-34.1891 150.9794
4788 East Coast (South) East Coast (South)	720	1	128.46 intermediate	8.2334 03-10-58 0:05 03-10-58 12:00	114922	1847 qcd_566037_233	-33.8085 151.0907
4789 East Coast (South) East Coast (South)	720	1	86.6 intermediate	5.9046 6/26/1997 16:05 6/27/1997 4:00	44008	571 qcd_070080	-34.4048 149.8197
4790 East Coast (South) East Coast (South)	720	2	104.47 intermediate	14.2618 03-08-67 9:20 03-08-67 21:15	38869	504 qcd_061151	-32.2426 151.683
4791 East Coast (South) East Coast (South)	720	2	130 intermediate	3.3079 02-09-92 14:30 02-10-92 2:25	116833	1882 qcd 567085 233	-33.608 150.7671
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4792 East Coast (South) East Coast (South)	720	2	144.85 intermediate	3.5368 07-05-88 15:55 07-06-88 3:50	118303	1908 qcd_568051_231	-34.0089 150.507
4793 East Coast (South) East Coast (South)	720	2	129.14 intermediate	10.2865 5/17/1977 3:15 5/17/1977 15:10	36505	481 qcd_058099	-29.2823 152.9886
4794 East Coast (South) East Coast (South)	720	3	88 intermediate	4.2556 02-05-10 16:55 02-06-10 4:50	113696	1828 qcd_563064_233	-32.2375 150.6306
4800 East Coast (South) East Coast (South)	720	3	138.79 intermediate	9.3893 04-03-88 16:10 04-04-88 4:05	118378	1910 qcd_568054_231	-34.4761 150.5222
4801 East Coast (South) East Coast (South)	720	3	97.65 intermediate	8.8185 9/24/1995 21:35 9/25/1995 9:30	113418	1824 qcd_563056_231	-34.0333 150.2153
4443 East Coast (South) East Coast (South)	720	2	222.5 rare	0.1048	116588	1877 qcd_567077_233	-33.8807 150.9504
4654 East Coast (South) East Coast (South)	720	1	361.07 rare	0.193 2/28/1976 11:35 2/28/1976 23:30	36900	486 qcd_058131	-28.8521 153.4556
4724 East Coast (South) East Coast (South)	720	2	139.51 rare	0.4748 06-08-07 2:20 06-08-07 14:15	62383	989 qcd_210076_77	-32.3366 150.9824
4747 East Coast (South) East Coast (South)	720	2	166.7 rare	1.7074 10/20/1967 21:50 10/21/1967 9:45	38882	504 qcd_061151	-32.2426 151.683
		2				· —	
4751 East Coast (South) East Coast (South)	720	3	210.4 rare	1.6438 02-09-92 14:40 02-10-92 2:35	140832	2276 qcd_wyoming_58	-33.4117 151.3483
4758 East Coast (South) East Coast (South)	720	2	164.8 rare	2.286 2/23/2004 20:30 2/24/2004 8:25	37092	488 qcd_058192	-28.9883 152.8809
4777 East Coast (South) East Coast (South)	720	1	155.59 rare	2.4317 1/19/1971 12:15 1/20/1971 0:10	38903	504 qcd_061151	-32.2426 151.683
4785 East Coast (South) East Coast (South)	720	2	157.5 rare	0.7366 10/24/1987 13:50 10/25/1987 1:45	120288	1940 qcd_568147_233	-34.0996 150.6981
4786 East Coast (South) East Coast (South)	720	2	110.39 rare	1.2895 2/24/1976 20:25 2/25/1976 8:20	39883	518 qcd_061287	-32.1852 150.1737
4787 East Coast (South) East Coast (South)	720	3	178.13 rare	2.664 2/20/1954 13:00 2/21/1954 0:55	36047	475 qcd_058025	-29.7067 152.94
4833 East Coast (South) East Coast (South)	1080	1	79 frequent	15.0169 6/30/2005 0:55 6/30/2005 18:50	113678	1828 qcd_563064_233	-32.2375 150.6306
4834 East Coast (South) East Coast (South)	1080	1	96.05 frequent	15.1106 07-10-62 3:05 07-10-62 21:00	35203	463 qcd 056059	-29.05 152.1
4836 East Coast (South) East Coast (South)	1080	2	80.62 frequent	14.6879 6/22/1998 7:00 6/23/1998 0:55	62042	· -	-31.5795 151.3154
		_	•			982 qcd_208009_77	
4837 East Coast (South) East Coast (South)	1080	2	95.81 frequent	14.8691 9/24/1995 7:10 9/25/1995 1:05	113869	1831 qcd_563073_231	-33.6139 150.1561
4838 East Coast (South) East Coast (South)	1080	2	153.87 frequent	15.0039 05-09-80 5:40 05-09-80 23:35	38137	497 qcd_060085	-31.3865 152.2482
4842 East Coast (South) East Coast (South)	1080	2	161.41 frequent	15.0352 6/17/1949 18:10 6/18/1949 12:05	42319	544 qcd_066063	-33.7206 151.1128

4845 East Coast (South) East Coast (South)	1080	2	143.19 frequent	15.2667 01-04-08 9:05 01-05-08 3:00	61052	959 qcd_203005_77	-28.5049 152.9669
4846 East Coast (South) East Coast (South)	1080	3	106.09 frequent	15.1779 3/20/1983 23:40 3/21/1983 17:35	113333	1823 qcd_563055_231	-34.1139 150.2194
4849 East Coast (South) East Coast (South)		3	•			· — — —	
, , , , , , , , , , , , , , , , , , , ,	1080	_	222.19 frequent	15.5718 2/16/2009 5:50 2/16/2009 23:45	138502	2233 qcd_northbonvil_58	-30.3638 153.0055
4855 East Coast (South) East Coast (South)	1080	3	199.13 frequent	15.8669 10/23/1999 16:20 10/24/1999 10:15	118441	1911 qcd_568058_231	-34.4583 150.6444
4710 East Coast (South) East Coast (South)	1080	2	252.4 intermediate	8.4849 2/24/2004 3:30 2/24/2004 21:25	36658	483 qcd_058113	-28.4738 153.0861
4716 East Coast (South) East Coast (South)	1080	2	322.08 intermediate	5.1315 03-09-74 23:05 03-10-74 17:00	36786	485 qcd_058129	-28.4659 153.2631
4733 East Coast (South) East Coast (South)	1080	2	222.42 intermediate	11.3345 10/24/1987 5:55 10/24/1987 23:50	118119	1906 qcd_568049_231	-34.3264 150.7417
4824 East Coast (South) East Coast (South)	1080	1	91.66 intermediate	6.3238 1/22/1976 19:00 1/23/1976 12:55	40546	526 qcd_062020	-32.5014 150.0333
4825 East Coast (South) East Coast (South)	1080	1	209.5 intermediate	3.5038 02-02-90 11:05 02-03-90 5:00	115014	1848 qcd_566038_233	-33.8578 151.2788
4826 East Coast (South) East Coast (South)	1080	2	146.14 intermediate	9.3358 5/17/1995 15:05 5/18/1995 9:00	112686	1815 qcd_563046_231	-33.8889 150.3861
4827 East Coast (South) East Coast (South)	1080	2	152.19 intermediate	11.1591 8/29/1963 9:20 8/30/1963 3:15	42333	545 qcd_066078	-34.0517 150.98
4828 East Coast (South) East Coast (South)	1080	3	136.52 intermediate	10.9109 12/25/1962 23:15 12/26/1962 17:10	38893	504 qcd_061151	-32.2426 151.683
4830 East Coast (South) East Coast (South)	1080	3	102.91 intermediate	10.9149 5/22/1981 15:20 5/23/1981 9:15	39266	511 qcd_061209	-32.9597 150.675
4832 East Coast (South) East Coast (South)	1080	3	137.2 intermediate	11.6301 5/21/2009 5:55 5/21/2009 23:50	37118	488 qcd_058192	-28.9883 152.8809
4491 East Coast (South) East Coast (South)	1080	1	268.64 rare	1.1153 02-02-90 11:45 02-03-90 5:40	39524	514 qcd_061223	-32.9131 151.75
4727 East Coast (South) East Coast (South)	1080	3	180.5 rare	2.4265 06-10-91 3:20 06-10-91 21:15	116596	1877 qcd_567077_233	-33.8807 150.9504
4748 East Coast (South) East Coast (South)	1080	2	205.44 rare	1.6553 10/20/1967 21:15 10/21/1967 15:10	38882	504 qcd_061151	-32.2426 151.683
4778 East Coast (South) East Coast (South)	1080	2	233.48 rare	0.839 1/19/1971 12:50 1/20/1971 6:45	38903	504 qcd_061151	-32.2426 151.683
4814 East Coast (South) East Coast (South)	1080	1	241.5 rare	2.1459 02-09-92 3:35 02-09-92 21:30	115725	1859 qcd_566071_233	-33.7338 151.2208
4815 East Coast (South) East Coast (South)	1080	2	245.5 rare	1.2378 04-10-98 6:50 04-11-98 0:45	115604	1857 qcd_566065_233	-33.8773 151.1673
4816 East Coast (South) East Coast (South)	1080	2	180.4 rare	0.3471 03-09-01 4:05 03-09-01 22:00	35758	470 qcd_057103	-30.0093 152.0101
4818 East Coast (South) East Coast (South)	1080	2	223.06 rare	0.6125 07-05-88 11:35 07-06-88 5:30	112598	1814 qcd_563043_231	-33.9844 150.1167
4819 East Coast (South) East Coast (South)	1080	2	385.03 rare	1.1427 4/27/1963 11:05 4/28/1963 5:00	37552	492 qcd_059040	-30.3107 153.1187
4823 East Coast (South) East Coast (South)	1080	3	146.74 rare	3.1392 9/24/1995 15:40 9/25/1995 9:35	112214	1810 qcd_563037_231	-34.0683 150.4033
4847 East Coast (South) East Coast (South)	1440	3	121.74 frequent	14.7368 3/20/1983 17:40 3/21/1983 17:35	113333	1823 qcd_563055_231	-34.1139 150.2194
4875 East Coast (South) East Coast (South)	1440	1	127.03 frequent	15.5956 02-01-01 12:00 02-02-01 11:55	61556	970 qcd_204036_77	-28.9325 152.2182
4876 East Coast (South) East Coast (South)	1440	1	214.72 frequent	15.6437 03-01-75 22:05 03-02-75 22:00	36245	477 qcd_058044	-28.5966 153.2233
4877 East Coast (South) East Coast (South)	1440	2	158.8 frequent	14.6685 11/13/1969 5:35 11/14/1969 5:30	114928	1847 qcd_566037_233	-33.8085 151.0907
4878 East Coast (South) East Coast (South)	1440	2	100.04 frequent	14.7119 1/22/1976 17:35 1/23/1976 17:30	40120	520 qcd_061309	-32.6881 150.9728
4879 East Coast (South) East Coast (South)	1440	2	112.78 frequent	15.0475 11-10-75 10:05 11-11-75 10:00	35396	466 qcd_057033	-30.5112 152.0427
4880 East Coast (South) East Coast (South)	1440	2	188.4 frequent	15.1647 03-08-01 19:05 03-09-01 19:00	37227	489 qcd_059000	-30.8141 152.5129
4882 East Coast (South) East Coast (South)	1440	2	172.07 frequent	15.1668 01-11-68 21:25 01-12-68 21:20	37768	494 qcd 060030	-31.9033 152.4496
4883 East Coast (South) East Coast (South)	1440	3	104.51 frequent	14.4863 07-10-62 5:35 07-11-62 5:30	35877	471 qcd 057104	-31.2739 151.9655
4885 East Coast (South) East Coast (South)	1440	3	224.95 frequent	15.6819 08-05-86 5:10 08-06-86 5:05	118755	1916 qcd 568069 231	-34.1817 150.9233
4680 East Coast (South) East Coast (South)	1440	2	211.45 intermediate	4.1243 06-11-67 16:30 06-12-67 16:25	36139	476 qcd 058026	-28.4414 152.8296
4831 East Coast (South) East Coast (South)	1440	3	133.24 intermediate	5.7862 5/22/1981 10:05 5/23/1981 10:00	39266	511 qcd 061209	-32.9597 150.675
4835 East Coast (South) East Coast (South)	1440	1	116.19 intermediate	10.4002 07-10-62 1:20 07-11-62 1:15	35203	463 qcd_056059	-29.05 152.1
4866 East Coast (South) East Coast (South)	1440	1	230.6 intermediate	12.584 7/19/1965 13:15 7/20/1965 13:10	36233	477 qcd_058044	-28.5966 153.2233
4867 East Coast (South) East Coast (South)	1440	2	192.46 intermediate	4.1194 01-12-68 0:10 1/13/1968 0:05	38886	504 gcd 061151	-32.2426 151.683
4869 East Coast (South) East Coast (South)	1440	2	100.25 intermediate	6.9911 10/24/1999 0:15 10/25/1999 0:10	62737	998 qcd 21210065 77	-34.6595 149.5608
4870 East Coast (South) East Coast (South)	1440	2	183 intermediate	9.487 9/24/1995 19:05 9/25/1995 19:00	114422	1842 qcd_566026_233	-33.9226 151.1556
4871 East Coast (South) East Coast (South)	1440	2	161.39 intermediate	13.8577 05-06-53 23:35 05-07-53 23:30	114926	· — — —	
	1440	3	180.09 intermediate	9.1286 04-06-62 21:35 04-07-62 21:30	36049	1847 qcd_566037_233	-33.8085 151.0907 -29.7067 152.94
4872 East Coast (South) East Coast (South)	1440	ა ე	166.47 intermediate	3.9109 05-08-80 17:00 05-09-80 16:55	35444	475 qcd_058025	-30.75 152.0667
4873 East Coast (South) East Coast (South)		3 1				467 qcd_057056	
4655 East Coast (South) East Coast (South)	1440	2	527.88 rare	0.0937 2/28/1976 2:45 2/29/1976 2:40	36900	486 qcd_058131	-28.8521 153.4556
4661 East Coast (South) East Coast (South)	1440	3	150.62 rare	3.1575 1/20/1956 22:55 1/21/1956 22:50	35202	463 qcd_056059	-29.05 152.1
4728 East Coast (South) East Coast (South)	1440	2	217.5 rare	1.8738 06-10-91 2:05 06-11-91 2:00	116596	1877 qcd_567077_233	-33.8807 150.9504
4749 East Coast (South) East Coast (South)	1440	2	242.98 rare	1.3117 10/20/1967 21:05 10/21/1967 21:00	38882	504 qcd_061151	-32.2426 151.683
4755 East Coast (South) East Coast (South)	1440	2	404.16 rare	0.1468	36385	479 qcd_058076	-29.7 152.9333
4817 East Coast (South) East Coast (South)	1440	2	215.4 rare	0.1934 03-09-01 3:05 03-10-01 3:00	35758	470 qcd_057103	-30.0093 152.0101
4856 East Coast (South) East Coast (South)	1440	1	146.8 rare	1.4021 06-08-07 4:10 06-09-07 4:05	39894	518 qcd_061287	-32.1852 150.1737
4859 East Coast (South) East Coast (South)	1440	1	321.65 rare	0.8371 02-02-90 9:40 02-03-90 9:35	137620	2216 qcd_lisarow_58	-33.3833 151.375
4860 East Coast (South) East Coast (South)	1440	2	221.15 rare	2.1096 3/19/1978 5:45 3/20/1978 5:40	38908	504 qcd_061151	-32.2426 151.683
4865 East Coast (South) East Coast (South)	1440	2	128.7 rare	2.1589 6/26/1997 10:55 6/27/1997 10:50	62656	996 qcd_21210063_77	-34.6438 149.5583
4848 East Coast (South) East Coast (South)	1800	3	136.29 frequent	14.6838 3/20/1983 11:40 3/21/1983 17:35	113333	1823 qcd_563055_231	-34.1139 150.2194
4881 East Coast (South) East Coast (South)	1800	2	212.8 frequent	14.6678 03-08-01 16:30 03-09-01 22:25	37227	489 qcd_059000	-30.8141 152.5129
4895 East Coast (South) East Coast (South)	1800	1	91.8 frequent	15.4667 04-12-94 5:45 4/13/1994 11:40	122333	1974 qcd_570340_231	-34.9056 149.6708
4896 East Coast (South) East Coast (South)	1800	1	275.39 frequent	16.0475 08-01-90 2:40 08-02-90 8:35	119601	1929 qcd_568102_231	-34.5522 150.6317
4899 East Coast (South) East Coast (South)	1800	2	168.11 frequent	14.4482 3/17/1978 13:00 3/18/1978 18:55	36151	476 qcd_058026	-28.4414 152.8296
4900 East Coast (South) East Coast (South)	1800	2	157.6 frequent	14.7467 05-06-01 14:55 05-07-01 20:50	38915	504 qcd_061151	-32.2426 151.683
4901 East Coast (South) East Coast (South)	1800	2	278.03 frequent	15.954 02-09-92 1:55 02-10-92 7:50	118567	1913 qcd_568061_231	-34.4056 150.7097

4902 East Coast (South)	Fast Coast (South)	1800	2	135.94 frequent	16.7588 1/18/1971 23:10 1/20/1971 5:	:05 39982	519 qcd_061288	-32.3322 151.4595
4906 East Coast (South)	,	1800	3	167.5 frequent	16.3691 1/21/1999 8:05 1/22/1999 14		1893 qcd_567147_233	-33.7437 150.9924
4907 East Coast (South)	, ,	1800	3	167 frequent	18.3924 6/28/2005 18:00 6/29/2005 23		481 qcd_058099	-29.2823 152.9886
4713 East Coast (South)	,	1800	2	173 intermediate				-33.7342 150.7692
,	, ,		2		7.1354 4/29/1988 6:15 4/30/1988 12		1883 qcd_567087_233	
4868 East Coast (South)	, ,	1800		225.3 intermediate	3.2762 01-11-68 16:00 01-12-68 3		504 qcd_061151	-32.2426 151.683
4884 East Coast (South)		1800	3	118.44 intermediate	13.806 07-10-62 1:15 07-11-62		471 qcd_057104	-31.2739 151.9655
4888 East Coast (South)		1800	1	319.4 intermediate	8.4177 1/31/2001 11:40 02-01-01		2265 qcd_southboambe_58	-30.3417 153.0512
4889 East Coast (South)		1800	1	169.82 intermediate	4.7787 1/19/1971 0:50 1/20/1971 6:4		506 qcd_061158	-32.5067 151.3779
4890 East Coast (South)	, ,	1800	2	364.79 intermediate	7.1856 2/16/2009 2:25 2/17/2009 8:3		2223 qcd_middleboamb_58	-30.3262 153.048
4891 East Coast (South)	, ,	1800	2	140.78 intermediate	9.5761 05-07-63 18:30 05-09-63		466 qcd_057033	-30.5112 152.0427
4892 East Coast (South)	, ,	1800	2	254.5 intermediate	3.9026 02-08-92 14:25 02-09-92		1873 qcd_566100_233	-33.808 151.3019
4893 East Coast (South)	East Coast (South)	1800	3	390.12 intermediate	3.7562 3/17/1978 15:45 3/18/1978 21	1:40 36665	483 qcd_058113	-28.4738 153.0861
4894 East Coast (South)	East Coast (South)	1800	3	200.96 intermediate	3.7506 08-04-86 22:55 08-06-86	6 4:50 62805	999 qcd_212320_77	-33.876 150.7698
2737 East Coast (South)	East Coast (South)	1800	2	212.98 rare	1.8688 06-12-67 9:05 6/13/1967 15	5:00 35463	467 qcd_057056	-30.75 152.0667
4492 East Coast (South)	East Coast (South)	1800	1	323.13 rare	1.1065 02-02-90 11:35 02-03-90	17:30 39524	514 qcd_061223	-32.9131 151.75
4687 East Coast (South)	East Coast (South)	1800	2	550.84 rare	0.1484 03-09-74 20:10 03-11-74	4 2:05 36926	486 qcd_058131	-28.8521 153.4556
4752 East Coast (South)	East Coast (South)	1800	3	333.26 rare	1.2102 02-08-92 20:30 02-10-92	2 2:25 140832	2276 qcd_wyoming_58	-33.4117 151.3483
4762 East Coast (South)	East Coast (South)	1800	2	150.6 rare	1.5212 6/26/1997 7:50 6/27/1997 13	3:45 62536	993 qcd_21210060_77	-34.6423 149.5663
4779 East Coast (South)	East Coast (South)	1800	1	299.72 rare	0.7835 1/19/1971 12:30 1/20/1971 18	8:25 38903	504 qcd 061151	-32.2426 151.683
4820 East Coast (South)		1800	3	463.5 rare	0.9198 4/26/1963 23:05 4/28/1963 5:0	:00 37552	492 qcd_059040	-30.3107 153.1187
4857 East Coast (South)	East Coast (South)	1800	2	162.4 rare	1.385 06-07-07 22:10 06-09-07		518 qcd_061287	-32.1852 150.1737
4874 East Coast (South)	, ,	1800	3	216.5 rare	1.7152 05-08-80 10:15 05-09-80		467 qcd_057056	-30.75 152.0667
4886 East Coast (South)	, ,	1800	2	363.99 rare	0.2923 08-05-86 0:10 08-06-86		1826 qcd 563059 231	-33.6897 150.3008
4903 East Coast (South)	,	2160	2	150.55 frequent	15.4526 1/18/1971 20:35 1/20/1971 8:3		519 qcd_061288	-32.3322 151.4595
4922 East Coast (South)	, ,	2160	1	169.35 frequent	14.9676 03-05-72 13:20 03-07-72		547 qcd_066137	-33.9181 150.9864
4923 East Coast (South)		2160	1	184.8 frequent	18.5242 05-02-96 2:55 05-03-96 2		963 qcd 204001 77	-29.9793 152.725
4929 East Coast (South)		2160	2	260.02 frequent	14.5448 1/31/2001 5:50 02-01-01 :		973 qcd 205006 77	-30.6405 152.856
		2160	2	206 frequent			·	-31.9033 152.4496
4930 East Coast (South)			2		14.5795 10/18/2004 20:05 10/20/2004 8		494 qcd_060030	
4931 East Coast (South)		2160		367.53 frequent	15.746 04-06-62 11:50 04-07-62 2		493 qcd_059067	-30.3439 152.7128
4933 East Coast (South)	, ,	2160	2	166.64 frequent	15.7684 3/19/1978 6:50 3/20/1978 18		547 qcd_066137	-33.9181 150.9864
4934 East Coast (South)	, ,	2160	3	266.11 frequent	14.9153 05-06-63 20:05 05-08-63		486 qcd_058131	-28.8521 153.4556
4935 East Coast (South)	, ,	2160	3	194.3 frequent	16.1047 08-06-98 8:45 08-07-98		2235 qcd_northmanly_58	-33.7687 151.2687
4936 East Coast (South)	, ,	2160	3	177.17 frequent	16.1653 10/27/1972 11:55 10/28/1972 2		479 qcd_058076	-29.7 152.9333
4714 East Coast (South)	, ,	2160	3	209.5 intermediate	4.405 4/29/1988 5:50 4/30/1988 17		1883 qcd_567087_233	-33.7342 150.7692
4803 East Coast (South)	·	2160	2	198.52 intermediate	5.5127 02-02-90 19:15 02-04-90		552 qcd_067033	-33.6022 150.7794
4913 East Coast (South)	, ,	2160	1	156.54 intermediate	10.5394 2/21/1977 11:45 2/22/1977 23		467 qcd_057056	-30.75 152.0667
4914 East Coast (South)		2160	1	122.84 intermediate	5.9504 7/31/1990 23:10 08-02-90	11:05 62658	996 qcd_21210063_77	-34.6438 149.5583
4915 East Coast (South)	East Coast (South)	2160	2	270.21 intermediate	4.3549 07-05-31 22:45 07-07-31	10:40 42197	543 qcd_066062	-33.8607 151.205
4916 East Coast (South)	East Coast (South)	2160	2	272.31 intermediate	4.2002 02-09-56 9:35 02-10-56	21:30 42199	543 qcd_066062	-33.8607 151.205
4917 East Coast (South)	East Coast (South)	2160	2	275.23 intermediate	14.1309 05-06-63 16:00 05-08-63	3 3:55 37567	492 qcd_059040	-30.3107 153.1187
4918 East Coast (South)	East Coast (South)	2160	2	230.2 intermediate	12.3299 3/31/2009 18:35 04-02-09	9 6:30 38132	497 qcd_060085	-31.3865 152.2482
4920 East Coast (South)	East Coast (South)	2160	3	260.28 intermediate	3.3991 05-08-80 1:05 05-09-80	13:00 35628	469 qcd_057095	-28.7551 152.4507
4921 East Coast (South)	East Coast (South)	2160	3	178.83 intermediate	5.5051 07-04-88 19:55 07-06-88	8 7:50 113251	1822 qcd_563054_231	-34.1253 150.0447
2738 East Coast (South)	East Coast (South)	2160	2	242.65 rare	1.3702 06-12-67 8:45 6/13/1967 20	0:40 35463	467 qcd_057056	-30.75 152.0667
4493 East Coast (South)	East Coast (South)	2160	1	409.31 rare	0.4671 02-02-90 11:35 02-03-90	23:30 39524	514 qcd_061223	-32.9131 151.75
4688 East Coast (South)	East Coast (South)	2160	2	636.26 rare	0.0754 03-09-74 16:55 03-11-74	4 4:50 36926	486 qcd_058131	-28.8521 153.4556
4753 East Coast (South)	East Coast (South)	2160	3	376.38 rare	0.9436 02-08-92 14:30 02-10-92	2 2:25 140832	2276 qcd_wyoming_58	-33.4117 151.3483
4821 East Coast (South)	East Coast (South)	2160	3	505.32 rare	0.6781 4/26/1963 17:15 4/28/1963 5::	:10 37552	492 qcd 059040	-30.3107 153.1187
4861 East Coast (South)		2160	2	270.56 rare	1.9781 3/18/1978 23:30 3/20/1978 11		504 qcd 061151	-32.2426 151.683
4887 East Coast (South)		2160	2	409.73 rare	0.2858 08-05-86 0:15 08-06-86		1826 qcd 563059 231	-33.6897 150.3008
4908 East Coast (South)		2160	1	285.5 rare	2.7183 06-10-91 14:05 06-12-91		1850 qcd_566047_233	-33.9747 151.0778
4911 East Coast (South)		2160	2	318.97 rare	1.56 7/19/1965 9:40 7/20/1965 21		479 qcd 058076	-29.7 152.9333
4912 East Coast (South)		2160	3	325 rare	2.6496 06-07-07 17:50 06-09-07		523 qcd 061351	-33.3102 151.2443
4932 East Coast (South)		2880	2	429.41 frequent	14.9662 04-06-62 3:25 04-08-62		493 qcd 059067	-30.3439 152.7128
4948 East Coast (South)		2880	1	286.16 frequent	17.1213 05-10-62 15:20 05-12-62 :		492 qcd 059040	-30.3107 153.1187
4949 East Coast (South)		2880	- 1	163.52 frequent	17.1717 1/22/1976 17:15 1/24/1976 17		519 qcd 061288	-32.3322 151.4595
4950 East Coast (South)		2880	2	294.6 frequent	14.659 01-03-08 3:20 01-05-08		477 qcd 058044	-28.5966 153.2233
4954 East Coast (South)		2880	2	203.12 frequent	15.0315 03-08-01 10:45 03-10-01		965 qcd 204007 77	-29.5082 152.6832
		2880	2	372.54 frequent	15.1302 7/31/1990 8:35 08-02-90		·	
4955 East Coast (South)			2	133.71 frequent			1918 qcd_568071_231	-34.4628 150.7333 21.4128 151.508
4956 East Coast (South)		2880	3	•	15.6159 3/18/1978 6:25 3/20/1978 6:		498 qcd_060104	-31.4138 151.598
4957 East Coast (South)	Last Coast (South)	2880	3	204.86 frequent	14.9855 6/19/1975 9:40 6/21/1975 9:	:35 38454	501 qcd_061029	-33.2333 151.2

4958 East Coast (South) East Coast (South)	2880	3	305.31 frequent	16.4151 05-06-63 3:45 05-08-63 3:40	35982	473 qcd_058013	-28.3167 153.4333
4959 East Coast (South) East Coast (South)	2880	3	334.47 frequent	17.62 08-04-86 13:10 08-06-86 13:05	118637	1914 qcd_568065_231	-34.2653 150.8778
2750 East Coast (South) East Coast (South)	2880	3	454.06 intermediate	3.9866 06-09-91 12:20 06-11-91 12:15	118834	1917 qcd_568070_231	-34.5542 150.5694
4812 East Coast (South) East Coast (South)	2880	3	285.26 intermediate	5.8723 03-11-74 4:15 3/13/1974 4:10	37780	494 qcd_060030	-31.9033 152.4496
4839 East Coast (South) East Coast (South)	2880	3	322.84 intermediate	4.932 05-08-80 1:00 05-10-80 0:55	38137	497 qcd_060085	-31.3865 152.2482
4897 East Coast (South) East Coast (South)	2880	2	350.36 intermediate	13.2126 7/31/1990 9:05 08-02-90 9:00	119601	1929 qcd_568102_231	-34.5522 150.6317
	2880	2	184.5 intermediate	11.078 1/18/1971 20:40 1/20/1971 20:35	39982		-32.3322 151.4595
4904 East Coast (South) East Coast (South)		1				519 qcd_061288	
4943 East Coast (South) East Coast (South)	2880	_	247.52 intermediate	3.5577 02-02-90 10:20 02-04-90 10:15	62807	999 qcd_212320_77	-33.876 150.7698
4944 East Coast (South) East Coast (South)	2880	1	464.2 intermediate	3.8937 02-01-01 2:10 02-03-01 2:05	36667	483 qcd_058113	-28.4738 153.0861
4945 East Coast (South) East Coast (South)	2880	2	355.42 intermediate	7.7208 5/16/1977 13:45 5/18/1977 13:40	37565	492 qcd_059040	-30.3107 153.1187
4946 East Coast (South) East Coast (South)	2880	2	365.12 intermediate	7.7263 1/24/1974 21:05 1/26/1974 21:00	36599	482 qcd_058109	-28.3672 153.1689
4947 East Coast (South) East Coast (South)	2880	2	392 intermediate	4.9871 02-05-02 5:10 02-07-02 5:05	37560	492 qcd_059040	-30.3107 153.1187
4780 East Coast (South) East Coast (South)	2880	1	395.37 rare	0.5651 1/19/1971 12:50	38903	504 qcd_061151	-32.2426 151.683
4822 East Coast (South) East Coast (South)	2880	3	578.27 rare	0.385 4/26/1963 5:35 4/28/1963 5:30	37552	492 qcd_059040	-30.3107 153.1187
4829 East Coast (South) East Coast (South)	2880	2	296.35 rare	2.2359 12/25/1962 0:00 12/26/1962 23:55	38893	504 qcd_061151	-32.2426 151.683
4858 East Coast (South) East Coast (South)	2880	3	210.2 rare	0.9641 06-07-07 1:45 06-09-07 1:40	39894	518 qcd_061287	-32.1852 150.1737
4862 East Coast (South) East Coast (South)	2880	2	346.87 rare	1.0061 3/18/1978 8:25 3/20/1978 8:20	38908	504 qcd_061151	-32.2426 151.683
4909 East Coast (South) East Coast (South)	2880	2	361 rare	1.384 06-10-91 2:05 06-12-91 2:00	115195	1850 qcd_566047_233	-33.9747 151.0778
4937 East Coast (South) East Coast (South)	2880	1	322.52 rare	1.7647 08-05-98 21:15 08-07-98 21:10	135407	2168 qcd_cromer_58	-33.7488 151.3
4938 East Coast (South) East Coast (South)	2880	2	299.73 rare	1.9422 08-04-86 12:55 08-06-86 12:50	112035	1808 qcd_563035_231	-33.9758 150.3811
4939 East Coast (South) East Coast (South)	2880	2	250.18 rare	2.9709 1/29/2001 11:10 1/31/2001 11:05	61305	964 qcd_204002_77	-28.8857 152.5658
4940 East Coast (South) East Coast (South)	2880	1	215.95 rare	0.6917 2/23/1955 17:30 2/25/1955 17:25	38750	503 qcd_061089	-32.0632 150.9272
4924 East Coast (South) East Coast (South)	4320	2	254.37 frequent	14.5303 05-01-96 7:50 05-04-96 7:45	61249	963 qcd_204001_77	-29.9793 152.725
4970 East Coast (South) East Coast (South)	4320	1	177.14 frequent	15.3136 8/23/1969 20:10 8/26/1969 20:05	35453	467 qcd_057056	-30.75 152.0667
4973 East Coast (South) East Coast (South)	4320	1	483.48 frequent	16.3833 05-07-63 15:15 05-10-63 15:10	37685	493 qcd_059067	-30.3439 152.7128
4974 East Coast (South) East Coast (South)	4320	2	250.2 frequent	15.3113 1/30/2001 18:05 02-02-01 18:00	61245	963 qcd_204001_77	-29.9793 152.725
4975 East Coast (South) East Coast (South)	4320	2	177.07 frequent	15.3331 10-09-82 11:45 10-12-82 11:40	35451	467 qcd_057056	-30.75 152.0667
4976 East Coast (South) East Coast (South)	4320	2	247.5 frequent	15.4341 8/15/1998 17:40 8/18/1998 17:35	116203	1869 qcd_566092_233	-34.0295 151.0711
4977 East Coast (South) East Coast (South)	4320	2	210.8 frequent	15.7123 05-06-01 5:50 05-09-01 5:45	38603	502 qcd_061078	-32.7932 151.8359
4979 East Coast (South) East Coast (South)	4320	3	197.98 frequent	14.4534 3/17/1978 8:55 3/20/1978 8:50	39825	517 qcd_061250	-32.6296 151.5919
4980 East Coast (South) East Coast (South)	4320	3	194 frequent	15.5277 03-06-01 12:50 03-09-01 12:45	39973	519 qcd_061288	-32.3322 151.4595
4981 East Coast (South) East Coast (South)	4320	3	379.6 frequent	17.0673 2/14/2009 19:10 2/17/2009 19:05	37956	496 qcd_060080	-31.6274 152.443
4840 East Coast (South) East Coast (South)	4320	2	417.13 intermediate	3.3532 05-07-80 1:35 05-10-80 1:30	38137	497 qcd_060085	-31.3865 152.2482
4898 East Coast (South) East Coast (South)	4320	1	398.61 intermediate	12.4489 7/31/1990 12:10 08-03-90 12:05	119601	1929 qcd_568102_231	-34.5522 150.6317
4905 East Coast (South) East Coast (South)	4320	1	219.3 intermediate	9.8965 1/18/1971 20:40 1/21/1971 20:35	39982	519 qcd_061288	-32.3322 151.4595
4919 East Coast (South) East Coast (South)	4320	2	357.8 intermediate	6.9901 3/30/2009 18:35 04-02-09 18:30	38132	497 qcd_060085	-31.3865 152.2482
4963 East Coast (South) East Coast (South)	4320	2	371.01 intermediate	14.2879 11-05-84 11:35 11-08-84 11:30	118579	1913 qcd_568061_231	-34.4056 150.7097
4964 East Coast (South) East Coast (South)	4320	2	475.56 intermediate	7.1166 11-10-75 20:05 11/13/1975 20:00	37942	496 qcd_060080	-31.6274 152.443
4966 East Coast (South) East Coast (South)	4320	2	303.8 intermediate	13.7759 5/20/2009 17:05 5/23/2009 17:00	37236	489 qcd_059000	-30.8141 152.5129
4967 East Coast (South) East Coast (South)	4320	3	152.99 intermediate	12.6825 1/28/1971 19:45 1/31/1971 19:40	40116	520 qcd 061309	-32.6881 150.9728
4968 East Coast (South) East Coast (South)	4320	3	329.8 intermediate	4.7193 4/27/1988 19:05 4/30/1988 19:00	118521	1912 gcd 568060 231	-34.2972 150.6736
4969 East Coast (South) East Coast (South)	4320	3	183.64 intermediate	10.0424 04-05-62 19:40 04-08-62 19:35	35892	471 qcd 057104	-31.2739 151.9655
2739 East Coast (South) East Coast (South)	4320	2	316.43 rare	1.0542 06-11-67 13:35 6/14/1967 13:30	35463	467 gcd 057056	-30.75 152.0667
2789 East Coast (South) East Coast (South)	4320	2	217.4 rare	1.8942 1/31/2001 1:50 02-03-01 1:45	35780	470 gcd 057103	-30.0093 152.0101
4637 East Coast (South) East Coast (South)	4320	2	196.82 rare	2.0211 1/21/1976 15:20 1/24/1976 15:15	38754	503 gcd 061089	-32.0632 150.9272
4781 East Coast (South) East Coast (South)	4320	1	478.42 rare	0.3877 1/19/1971 3:20 1/22/1971 3:15	38903	504 qcd 061151	-32.2426 151.683
4863 East Coast (South) East Coast (South)	4320	3	414.93 rare	0.844 3/17/1978 11:50 3/20/1978 11:45	38908	504 qcd 061151	-32.2426 151.683
4910 East Coast (South) East Coast (South)	4320	2	411 rare	1.3301 06-09-91 3:45 06-12-91 3:40	115195	1850 qcd 566047 233	-33.9747 151.0778
4941 East Coast (South) East Coast (South)	4320	1	277.89 rare	0.328 2/23/1955 12:55 2/26/1955 12:50	38750	503 qcd 061089	-32.0632 150.9272
4960 East Coast (South) East Coast (South)	4320	2	367.21 rare	2.1725 08-04-86 5:50 08-07-86 5:45	41982	542 qcd_066037	-33.9465 151.1731
4961 East Coast (South) East Coast (South)	4320	2	412.22 rare	2.1815 06-07-07 4:05 06-10-07 4:00	138402	2231 qcd narara 58	-33.395 151.3267
4962 East Coast (South) East Coast (South)	4320	3	368.64 rare	2.9498 4/28/1988 0:50	118395	1910 qcd 568054 231	-34.4761 150.5222
5002 East Coast (South) East Coast (South)	5760	1	140.06 frequent	15.4486 03-02-77 17:45 03-06-77 17:40	39465	513 qcd 061212	-32.3767 150.96
5003 East Coast (South) East Coast (South)	5760	1	251 frequent	17.2 05-12-03 21:00 5/16/2003 20:55	114572	1844 qcd 566028 233	-33.9265 151.2144
5005 East Coast (South) East Coast (South)	5760	2	207.65 frequent	14.5294 1/20/1976 14:30 1/24/1976 14:25	42711	552 qcd 067033	-33.6022 150.7794
5006 East Coast (South) East Coast (South)	5760	2	425.96 frequent	14.9451 5/15/1977 9:40 5/19/1977 9:35	37945	496 qcd 060080	-31.6274 152.443
5007 East Coast (South) East Coast (South)	5760	2	209.33 frequent	14.9451 5/15/1977 9.40 5/19/1977 9.35 14.9712 05-04-79 4:15 05-08-79 4:10	37945 39828	496 qca_060080 517 qcd 061250	-32.6296 151.5919
5008 East Coast (South) East Coast (South)	5760	2	304.03 frequent	15.5503 03-06-01 6:20 03-10-01 6:15	61900	979 qcd 207004 77	-31.4225 152.4708
5012 East Coast (South) East Coast (South)	5760	2	351.12 frequent	16.3139 06-10-67 4:35 6/14/1967 4:30	36262	477 qcd 058044	-28.5966 153.2233
		3	484.2 frequent			· -	
5014 East Coast (South) East Coast (South)	5760 5760	3		14.9049 1/22/2012 23:40	37443 36333	491 qcd_059026	-30.3076 152.9874 -28.6533 153.4542
5015 East Coast (South) East Coast (South)	3/00	3	414.16 frequent	13.243 3/14/13/0 23.40 3/16/13/6 23.33	30333	478 qcd_058072	-28.6533 153.4542

5046.5 +6 +/6 +/1 5 +6 +/6 +/1	F760	2	200.02.5	46,0050 06,00,64,045 06,40,640,40	122.10	542 L 00000	22.0607 454.205
5016 East Coast (South) East Coast (South)	5760	3	266.83 frequent	16.0359 06-08-64 9:15 06-12-64 9:10	42249	543 qcd_066062	-33.8607 151.205
4843 East Coast (South) East Coast (South)	5760	3	330.07 intermediate	13.1569 6/14/1949 12:10 6/18/1949 12:05	42319	544 qcd_066063	-33.7206 151.1128
4850 East Coast (South) East Coast (South)	5760	3	461.36 intermediate	8.5748 2/13/2009 9:45 2/17/2009 9:40	138502	2233 qcd_northbonvil_58	-30.3638 153.0055
4965 East Coast (South) East Coast (South)	5760	2	547.83 intermediate	5.3369 11-10-75 12:35 11/14/1975 12:30	37942	496 qcd_060080	-31.6274 152.443
4971 East Coast (South) East Coast (South)	5760	2	200.82 intermediate	12.5898 8/24/1969 0:35 8/28/1969 0:30	35453	467 qcd_057056	-30.75 152.0667
4978 East Coast (South) East Coast (South)	5760	2	237.4 intermediate	13.4978 05-05-01 17:40 05-09-01 17:35	38603	502 qcd_061078	-32.7932 151.8359
4995 East Coast (South) East Coast (South)	5760	1	190.25 intermediate	8.978 5/14/1977 4:10 5/18/1977 4:05	38274	498 qcd_060104	-31.4138 151.598
4997 East Coast (South) East Coast (South)	5760	1	171.73 intermediate	14.2542 2/21/1977 11:20 2/25/1977 11:15	38267	498 qcd_060104	-31.4138 151.598
4999 East Coast (South) East Coast (South)	5760	2	194.22 intermediate	7.374 05-05-63 16:35 05-09-63 16:30	35938	472 qcd_057105	-31.0667 151.9167
5000 East Coast (South) East Coast (South)	5760	2	498.2 intermediate	7.4017 06-06-91 9:55 06-10-91 9:50	119604	1929 qcd 568102 231	-34.5522 150.6317
5001 East Coast (South) East Coast (South)	5760	3	348.8 intermediate	11.7876 1/22/2012 17:00 1/26/2012 16:55	38146	497 qcd_060085	-31.3865 152.2482
2740 East Coast (South) East Coast (South)	5760	2	339.19 rare	0.9688 06-10-67 17:50 6/14/1967 17:45	35463	467 qcd 057056	-30.75 152.0667
2790 East Coast (South) East Coast (South)	5760	2	249 rare	1.2596 1/30/2001 14:35	35780	470 qcd 057103	-30.0093 152.0101
4689 East Coast (South) East Coast (South)	5760	1	797.85 rare	0.0749 03-09-74 9:40 3/13/1974 9:35	36926	486 qcd 058131	-28.8521 153.4556
4782 East Coast (South) East Coast (South)	5760	1	505.93 rare	0.385 1/18/1971 23:00 1/22/1971 22:55	38903	504 qcd 061151	-32.2426 151.683
4795 East Coast (South) East Coast (South)	5760	2	196 rare	3.0599 02-04-10 1:40 02-08-10 1:35	113696	1828 qcd 563064 233	-32.2375 150.6306
		3				·	
4841 East Coast (South) East Coast (South)	5760	_	479.48 rare	2.772 05-06-80 0:10 05-10-80 0:05	38137	497 qcd_060085	-31.3865 152.2482
4982 East Coast (South) East Coast (South)	5760	2	771.39 rare	2.4349 03-06-01 12:55 03-10-01 12:50	61417	967 qcd_204017_77	-30.3057 152.7146
4985 East Coast (South) East Coast (South)	5760	3	322.5 rare	3.0137 8/15/1998 16:55 8/19/1998 16:50	120950	1951 qcd_568170_233	-33.3472 150.8578
4986 East Coast (South) East Coast (North)	5760	2	873.32 rare	0.5299 05-01-96 12:50 05-05-96 12:45	26237	347 qcd_040197	-27.9695 153.1954
4993 East Coast (South) East Coast (North)	5760	2	1294.04 rare	0.569 1/24/1974 6:35 1/28/1974 6:30	26103	346 qcd_040192	-28.2264 153.2786
5009 East Coast (South) East Coast (South)	7200	2	320.01 frequent	15.1582 03-06-01 0:45 03-11-01 0:40	61900	979 qcd_207004_77	-31.4225 152.4708
5013 East Coast (South) East Coast (South)	7200	2	377.3 frequent	14.8368 06-09-67 5:00 6/14/1967 4:55	36262	477 qcd_058044	-28.5966 153.2233
5034 East Coast (South) East Coast (South)	7200	1	504.52 frequent	15.2544 4/30/1996 22:40 05-05-96 22:35	61017	958 qcd_201001_77	-28.3537 153.2931
5036 East Coast (South) East Coast (South)	7200	1	210.25 frequent	16.5795 5/14/1977 7:00 5/19/1977 6:55	39832	517 qcd_061250	-32.6296 151.5919
5037 East Coast (South) East Coast (South)	7200	2	227.5 frequent	15.7564 05-12-03 21:10 5/17/2003 21:05	117731	1900 qcd_567167_233	-33.6961 150.9194
5038 East Coast (South) East Coast (South)	7200	2	251.54 frequent	19.3568 06-07-64 13:05 06-12-64 13:00	41988	542 qcd_066037	-33.9465 151.1731
5039 East Coast (South) East Coast (South)	7200	2	292.73 frequent	22.776 1/16/1951 7:15 1/21/1951 7:10	42320	544 qcd_066063	-33.7206 151.1128
5040 East Coast (South) East Coast (South)	7200	3	358.6 frequent	17.0998 05-07-87 4:00 05-12-87 3:55	36934	486 qcd_058131	-28.8521 153.4556
5041 East Coast (South) East Coast (South)	7200	3	236.2 frequent	17.3075 4/20/2008 14:10 4/25/2008 14:05	38930	504 qcd_061151	-32.2426 151.683
5044 East Coast (South) East Coast (South)	7200	3	359.9 frequent	18.4569 01-08-68 5:45 1/13/1968 5:40	36603	482 qcd_058109	-28.3672 153.1689
4844 East Coast (South) East Coast (South)	7200	3	347.43 intermediate	12.6723 6/14/1949 8:05 6/19/1949 8:00	42319	544 qcd_066063	-33.7206 151.1128
4851 East Coast (South) East Coast (South)	7200	3	537.23 intermediate	5.1495 02-12-09 9:55 2/17/2009 9:50	138502	2233 qcd northbonvil 58	-30.3638 153.0055
4972 East Coast (South) East Coast (South)	7200	2	219.11 intermediate	10.4659 8/23/1969 5:05 8/28/1969 5:00	35453	467 gcd 057056	-30.75 152.0667
		1	207.54 intermediate			• =	
4996 East Coast (South) East Coast (South)	7200			7.4502 5/14/1977 2:30	38274	498 qcd_060104	-31.4138 151.598
4998 East Coast (South) East Coast (South)	7200	2	187.37 intermediate	12.1519 2/21/1977 9:15 2/26/1977 9:10	38267	498 qcd_060104	-31.4138 151.598
5004 East Coast (South) East Coast (South)	7200	2	280 intermediate	13.7859 05-12-03 21:00 5/17/2003 20:55	114572	1844 qcd_566028_233	-33.9265 151.2144
5030 East Coast (South) East Coast (South)	7200	1	207.91 intermediate	12.7343 01-07-74 12:55 01-12-74 12:50	35458	467 qcd_057056	-30.75 152.0667
5031 East Coast (South) East Coast (South)	7200	2	459.19 intermediate	7.739 06-09-67 3:55 6/14/1967 3:50	36609	482 qcd_058109	-28.3672 153.1689
5032 East Coast (South) East Coast (South)	7200	2	229.78 intermediate	5.4965 06-07-64 21:20 06-12-64 21:15	39729	516 qcd_061240	-32.9667 151.1333
5033 East Coast (South) East Coast (South)	7200	3	449.11 intermediate	9.6469 05-04-80 17:55 05-09-80 17:50	37070	487 qcd_058158	-28.3395 153.3809
2741 East Coast (South) East Coast (South)	7200	3	363.55 rare	0.7276 06-09-67 12:20 6/14/1967 12:15	35463	467 qcd_057056	-30.75 152.0667
2751 East Coast (South) East Coast (South)	7200	3	708.85 rare	1.4194 06-07-91 0:50 06-12-91 0:45	118834	1917 qcd_568070_231	-34.5542 150.5694
2855 East Coast (South) East Coast (North)	7200	2	558.17 rare	1.3524 05-01-96 0:05 05-06-96 0:00	26738	351 qcd_040223	-27.4178 153.1142
4633 East Coast (South) East Coast (South)	7200	1	513.2 rare	2.1938 11-10-75 1:05 11/15/1975 1:00	37240	489 qcd_059000	-30.8141 152.5129
4796 East Coast (South) East Coast (South)	7200	3	206 rare	2.8164 02-03-10 1:40 02-08-10 1:35	113696	1828 qcd_563064_233	-32.2375 150.6306
4925 East Coast (South) East Coast (South)	7200	1	411.77 rare	3.1749 05-01-96 12:20 05-06-96 12:15	61249	963 qcd_204001_77	-29.9793 152.725
4983 East Coast (South) East Coast (South)	7200	2	834.01 rare	1.87 03-05-01 16:35 03-10-01 16:30	61417	967 qcd_204017_77	-30.3057 152.7146
4987 East Coast (South) East Coast (North)	7200	1	1040.64 rare	0.2216	26237	347 qcd_040197	-27.9695 153.1954
5020 East Coast (South) East Coast (North)	7200	2	790.27 rare	0.7751 01-08-68 0:40 1/13/1968 0:35	486	360 qcd 040386	-26.5892 152.7322
5027 East Coast (South) East Coast (North)	7200	1	654.02 rare	1.1531 05-01-96 0:05 05-06-96 0:00	28478	374 qcd 040584	-28.0481 153.2875
5010 East Coast (South) East Coast (South)	8640	2	327.02 frequent	15.147 03-05-01 22:05 03-11-01 22:00	61900	979 qcd 207004 77	-31.4225 152.4708
5042 East Coast (South) East Coast (South)	8640	3	249 frequent	16.0914 4/19/2008 14:00 4/25/2008 13:55	38930	504 qcd_061151	-32.2426 151.683
5053 East Coast (South) East Coast (South)	8640	1	297.76 frequent	18.2885 4/30/1996 8:30	61110	960 qcd_203010_77	-28.7365 153.164
5055 East Coast (South) East Coast (South)	8640	1	260.39 frequent	23.1002 05-01-53 18:00 05-07-53 17:55	42248	543 qcd_066062	-33.8607 151.205
		2	•			· —	
5057 East Coast (South) East Coast (South)	8640		337.14 frequent		38144	497 qcd_060085	-31.3865 152.2482
5058 East Coast (South) East Coast (South)	8640	2	184.6 frequent	18.5658 01-11-04 9:15 1/17/2004 9:10	35904	471 qcd_057104	-31.2739 151.9655
5060 East Coast (South) East Coast (South)	8640	2	127.57 frequent	22.4244 1/25/1997 12:30	62340	988 qcd_210061_77	-31.8099 150.9252
5061 East Coast (South) East Coast (South)	8640	2	373.88 frequent	27.9349 06-08-67 15:35 6/14/1967 15:30	36341	478 qcd_058072	-28.6533 153.4542
5062 East Coast (South) East Coast (South)	8640	3	280.48 frequent	15.3942 3/15/1983 17:05 3/21/1983 17:00	114573	1844 qcd_566028_233	-33.9265 151.2144
5063 East Coast (South) East Coast (South)	8640	3	162 frequent	16.2996 01-05-74 15:45 01-11-74 15:40	40126	520 qcd_061309	-32.6881 150.9728

4852 East Coast (South) East Coast (South)	8640	3	566.74 intermediate	4.5767 02-11-09 15:00 2/17/2009 14:55	138502	2233 qcd_northbonvil_58	-30.3638 153.0055
4951 East Coast (South) East Coast (South)	8640	3	487.6 intermediate	5.8087 12/30/2007 17:20 01-05-08 17:15	36265	477 qcd_058044	-28.5966 153.2233
5017 East Coast (South) East Coast (South)	8640	2	373.24 intermediate	5.2777 06-06-64 16:30 06-12-64 16:25	42249	543 qcd_066062	-33.8607 151.205
5035 East Coast (South) East Coast (South)	8640	1	622.15 intermediate	8.1717 4/30/1996 19:10 05-06-96 19:05	61017	958 qcd_201001_77	-28.3537 153.2931
5046 East Coast (South) East Coast (South)	8640	1	267.9 intermediate	4.6451 11-09-75 14:15 11/15/1975 14:10	35459	467 qcd_057056	-30.75 152.0667
5047 East Coast (South) East Coast (South)	8640	2	162.97 intermediate	8.2469 01-11-04 9:50 1/17/2004 9:45	61815	977 qcd_206035_77	-30.2112 151.7261
5048 East Coast (South) East Coast (South)	8640	2	305.24 intermediate	8.9163 5/13/1977 19:40 5/19/1977 19:35	38457	501 qcd_061029	-33.2333 151.2
5049 East Coast (South) East Coast (South)	8640	2	377.2 intermediate	7.1074 02-02-10 0:30 02-08-10 0:25	41073	532 qcd_063039	-33.7122 150.3087
5050 East Coast (South) East Coast (South)	8640	2	617.8 intermediate	4.5097 03-04-01 16:50 03-10-01 16:45	37950	496 qcd_060080	-31.6274 152.443
5051 East Coast (South) East Coast (South)	8640	3	302.4 intermediate	12.3098 01-05-11 16:20 01-11-11 16:15	35648	469 qcd_057095	-28.7551 152.4507
2742 East Coast (South) East Coast (South)	8640	3	392.89 rare	0.4541 06-08-67 0:10 6/14/1967 0:05	35463	467 qcd_057056	-30.75 152.0667
2791 East Coast (South) East Coast (South)	8640	3	293.8 rare	0.5666 1/28/2001 10:45	35780	470 qcd_057103	-30.0093 152.0101
2797 East Coast (South) East Coast (South)	8640	3	369.6 rare	0.6455 01-05-11 16:45 01-11-11 16:40	35365	465 qcd_056202	-28.9776 152.1552
2835 East Coast (South) East Coast (South)	8640	1	333.64 rare	2.6473 02-02-90 3:50 02-08-90 3:45	42727	552 qcd_067033	-33.6022 150.7794
2840 East Coast (South) East Coast (North)	8640	2	895.97 rare	0.7335 12/26/1990 14:10	110012	1764 qcd_533011_66	-21.4797 148.8283
4797 East Coast (South) East Coast (South)	8640	3	214 rare	2.5066 02-02-10 11:30 02-08-10 11:25	113696	1828 qcd_563064_233	-32.2375 150.6306
4926 East Coast (South) East Coast (South)	8640	2	441.07 rare	2.5687 4/30/1996 15:10 05-06-96 15:05	61249	963 qcd_204001_77	-29.9793 152.725
4988 East Coast (South) East Coast (North)	8640	1	1114.98 rare	0.1627 05-01-96 0:05 05-07-96 0:00	26237	347 qcd_040197	-27.9695 153.1954
5028 East Coast (South) East Coast (North)	8640	1	727.22 rare	0.7318 05-01-96 0:05 05-07-96 0:00	28478	374 qcd_040584	-28.0481 153.2875
5045 East Coast (South) East Coast (South)	8640	3	638.8 rare	2.9238 12/30/2007 18:10	36675	483 gcd 058113	-28.4738 153.0861
5011 East Coast (South) East Coast (South)	10080	1	334.02 frequent	14.4563 03-05-01 14:05 03-12-01 14:00	61900	979 gcd 207004 77	-31.4225 152.4708
5043 East Coast (South) East Coast (South)	10080	3	261.2 frequent	14.5823 4/18/2008 19:20 4/25/2008 19:15	38930	504 qcd_061151	-32.2426 151.683
5054 East Coast (South) East Coast (South)	10080	2	303.21 frequent	17.7861 4/29/1996 8:30	61110	960 qcd_203010_77	-28.7365 153.164
5059 East Coast (South) East Coast (South)	10080	2	188 frequent	17.708 01-10-04 17:10 1/17/2004 17:05	35904	471 qcd_057104	-31.2739 151.9655
5084 East Coast (South) East Coast (South)	10080	1	392.37 frequent	19.5449 4/20/1974 17:35 4/27/1974 17:30	37071	487 gcd 058158	-28.3395 153.3809
5085 East Coast (South) East Coast (South)	10080	2	232.95 frequent	23.7558 3/15/1978 11:25 3/22/1978 11:20	36448	480 qcd_058081	-28.9667 152.8167
5086 East Coast (South) East Coast (South)	10080	2	140.51 frequent	27.2124 02-11-09 14:00 2/18/2009 13:55	61466	968 qcd 204030 77	-30.2587 152.0094
5087 East Coast (South) East Coast (South)	10080	2	249 frequent	28.9583 2/28/1995 19:50 03-07-95 19:45	117287	1889 qcd 567109 233	-33.6202 151.149
5088 East Coast (South) East Coast (South)	10080	3	291.54 frequent	14.5536 6/15/1975 13:35 6/22/1975 13:30	114575	1844 qcd_566028_233	-33.9265 151.2144
5089 East Coast (South) East Coast (South)	10080	3	383.72 frequent	16.3705 05-03-80 15:20 05-10-80 15:15	37584	492 qcd_059040	-30.3107 153.1187
4853 East Coast (South) East Coast (South)	10080	2	586.71 intermediate	4.2815 02-11-09 15:00 2/18/2009 14:55	138502	2233 qcd northbonvil 58	-30.3638 153.0055
4952 East Coast (South) East Coast (South)	10080	2	518.6 intermediate	4.6729 12/30/2007 14:20 01-06-08 14:15	36265	477 qcd_058044	-28.5966 153.2233
5018 East Coast (South) East Coast (South)	10080	2	398.69 intermediate	3.9847 06-05-64 18:00 06-12-64 17:55	42249	543 qcd_066062	-33.8607 151.205
5052 East Coast (South) East Coast (South)	10080	3	356.4 intermediate	6.9096 01-04-11 16:50 01-11-11 16:45	35648	469 qcd_057095	-28.7551 152.4507
5056 East Coast (South) East Coast (South)	10080	3	303.6 intermediate	13.9304 05-01-53 12:20 05-08-53 12:15	42248	543 qcd 066062	-33.8607 151.205
5078 East Coast (South) East Coast (South)	10080	2	310.51 intermediate	10.8241 4/29/1996 18:05	61205	962 qcd 203900 77	-28.6206 152.9962
5079 East Coast (South) East Coast (South)	10080	2	503.02 intermediate	4.7732 05-02-80 16:15 05-09-80 16:10	36939	486 qcd_058131	-28.8521 153.4556
5080 East Coast (South) East Coast (South)	10080	3	440.42 intermediate	5.8487 06-07-67 7:30 6/14/1967 7:25	37248	489 qcd_059000	-30.8141 152.5129
5081 East Coast (South) East Coast (South)	10080	3	247.4 intermediate	5.0151 03-04-01 3:10 03-11-01 3:05	35902	471 qcd_057104	-31.2739 151.9655
5082 East Coast (South) East Coast (South)	10080	3	395.56 intermediate	4.1596 06-11-50 2:05 6/18/1950 2:00	42247	543 qcd_066062	-33.8607 151.205
2743 East Coast (South) East Coast (South)	10080	3	453.15 rare	0.1591 06-07-67 4:20 6/14/1967 4:15	35463	467 qcd_057056	-30.75 152.0667
2792 East Coast (South) East Coast (South)	10080	2	301.4 rare	0.4944 1/28/2001 10:35	35780	470 qcd_057103	-30.0093 152.0101
2798 East Coast (South) East Coast (South)	10080	3	376.2 rare	0.5969 01-05-11 13:20 01-12-11 13:15	35365	465 qcd_056202	-28.9776 152.1552
2836 East Coast (South) East Coast (South)	10080	2	334.54 rare	2.6214 02-02-90 3:50 02-09-90 3:45	42727	552 qcd_067033	-33.6022 150.7794
2841 East Coast (South) East Coast (North)	10080	1	958.57 rare	0.6531 12/28/1990 16:35 01-04-91 16:30	110012	1764 qcd_533011_66	-21.4797 148.8283
2856 East Coast (South) East Coast (North)	10080	1	595.23 rare	1.0865 05-01-96 0:05 05-08-96 0:00	26738	351 qcd_040223	-27.4178 153.1142
5064 East Coast (South) East Coast (North)	10080	2	589.88 rare	1.2899 01-06-68 17:10 1/13/1968 17:05	24711	329 qcd_040093	-26.1831 152.6414
5069 East Coast (South) East Coast (North)	10080	2	491.26 rare	2.702 01-06-68 4:10 1/13/1968 4:05	23354		-24.9069 152.323
5071 East Coast (South) East Coast (North)	10080	2	491.20 Tale 400.84 rare	2.9538 01-07-68 11:45 1/14/1968 11:40	27412	313 qcd_039128 358 qcd_040318	-27.0258 152.5642
5072 East Coast (South) East Coast (North)	10080	2	260.63 rare	3.1285 02-05-54 0:50 02-12-54 0:45	23094	358 qcd_040318	-24.9503 150.0725
3072 Last Coast (300th) Last Coast (North)	10000	2	200.03 Tale	5.1205 02 ⁻ 05 ⁻ 34 0.30 02 ⁻ 12 ⁻ 34 0.43	23034	310 qcd_039090	24.9303 I30.0723





Appendix 3 – Sydney Water Advice



21.26 Sydney Water Requirements

David Huang

From: JEYADEVAN, JEYA < JEYAJEYADEVAN@sydneywater.com.au>

Sent: Tuesday, 25 October 2016 3:34 PM

To: Lewis, Patrick
Cc: Fettell, Daniel

Subject: RE: Waterloo Over Station Development - PSD Requirements

Patrick,

The On Site Detention requirements for the 13,500 square meters site at Waterloo Over Station (59 – 121 Botany Road, Waterloo), are as follows:

On Site Detention 208 cubic meter

Permissible Site Discharge 503 L/s

The approval for the On Site Detention would only be given as part of the Section 73 application for this development. The On Site Detention is to be designed according to the above values and submitted to Sydney Water for approval with the Section 73 application. The following details are to be included in your submission for On Site Detention approval:

- · Location of the On Site Detention in relation to the development
- · Location of the On Site Detention in relation to overall stormwater network of the property
- · Plan and Elevation of the On Site Detention tank with all dimensions
- Orifice plate calculation

Best regards,

Jeya Jeyadevan | Senior Capability Assessor
Customer Delivery | Sydney Water
Level 7, 1 Smith St Parramatta NSW 2150
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