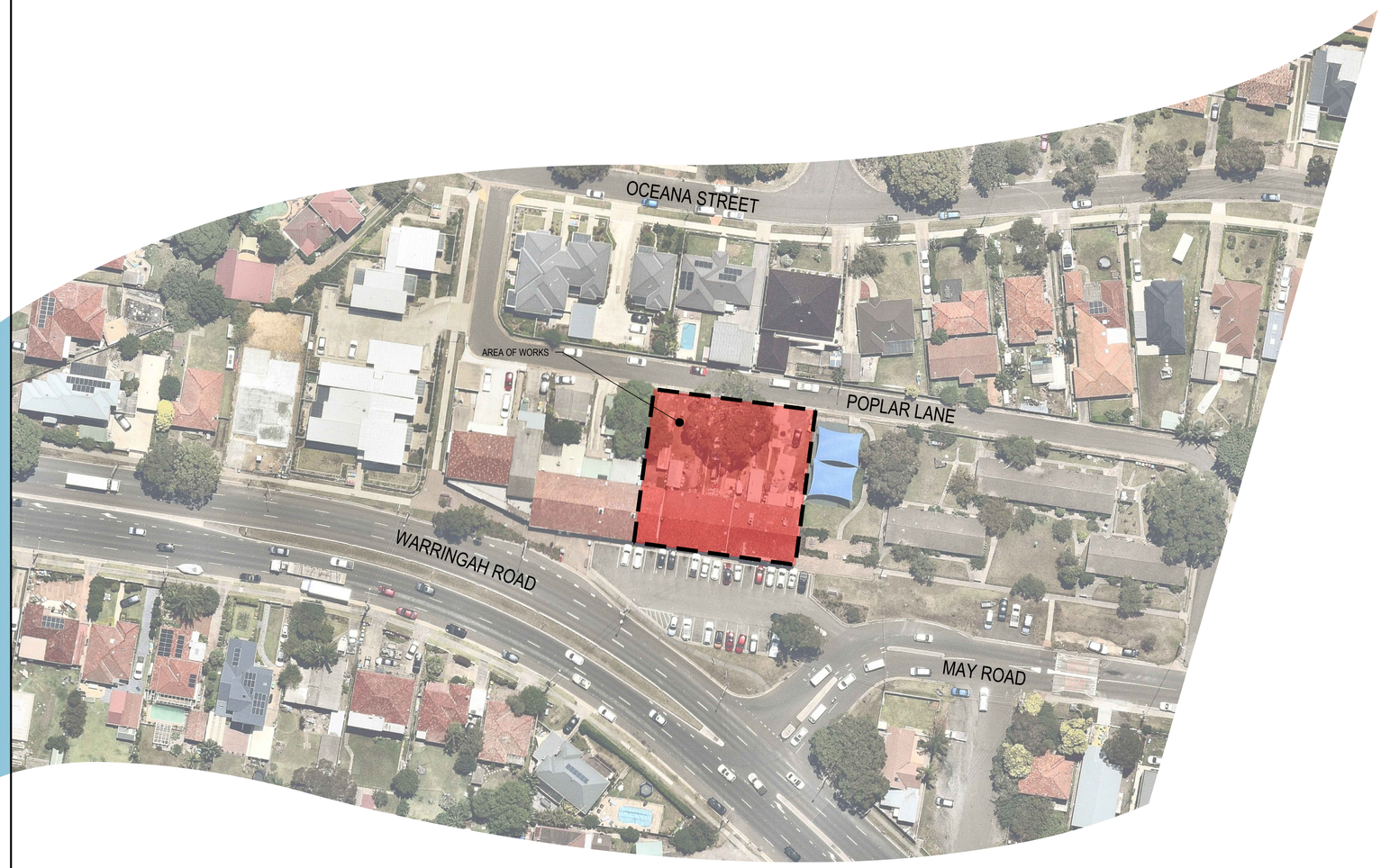
THE MAY ROAD GROUP

52-62 MAY ROAD, NARRAWEENA
DEVELOPMENT APPLICATION



DRAWING SCHEDULE

DRAWING NO.	DESCRIPTION
200014-DA-C01.01	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
200014-DA-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN
200014-DA-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
200014-DA-C05.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN - BASEMENT
200014-DA-C05.02	SITEWORKS AND STORMWATER MANAGEMENT PLAN - GROUND FLOOR
200014-DA-C13.01	DRIVEWAY LONGITUDINAL SECTIONS
200014-DA-C14.01	DETAILS SHEET
200014-DA-C22.01	STORMWATER CATCHMENT PLAN

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	09/04/2020	ISSUED FOR DEVELOPMENT APPLICATION	EZ	CG	-	AD
1	31/03/2020	ISSUED FOR REVIEW	EZ	CG	-	AD

Client: THE MAY ROAD GROUP

Scale: 0 15 30 45 60 75m — SCALE 1:750 @A1

North

Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Scale: 1:750
Date: 31/03/2020
Size: A1
Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200014-DA-C01.01

Revision: 2

DATE PLOTTED: 9 April 2020 11:51 AM BY: CANDICE GAO

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EROSION AND SEDIMENT CONTROL

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.

2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
   ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.

3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.

5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
   a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   d. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

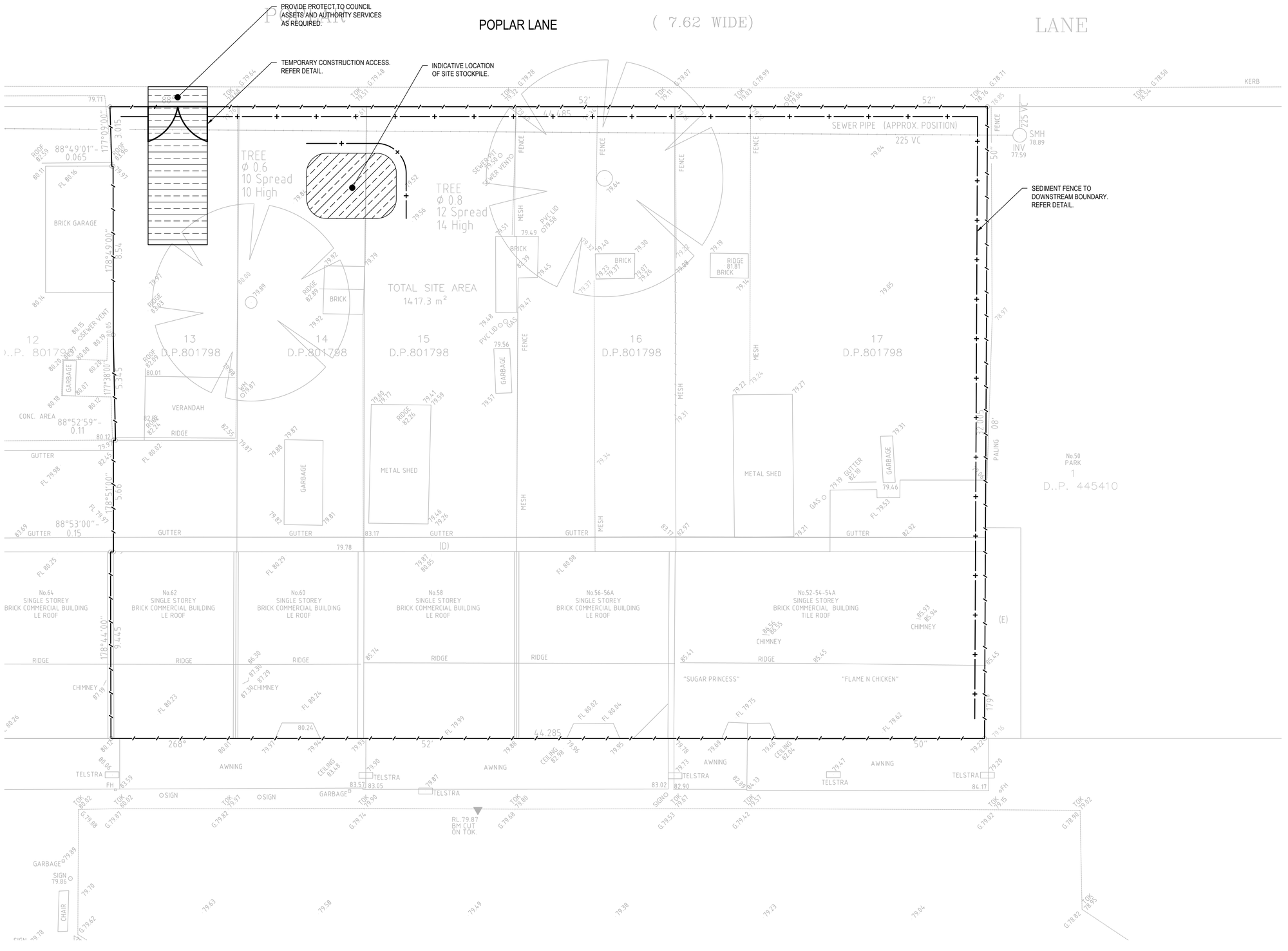
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
   b. ENSURING THAT NOTHING IS NAILED TO THEM
   c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
   (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
   (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
   (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

LEGEND

- SITE FENCE
- SEDIMENT FENCE (SD 6-8)
- SITE ENTRY/EXIT
- TEMPORARY CONSTRUCTION EXIT
- SITE STOCKPILE



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Scale: 0 1 2 4 6 8 10m — SCALE 1:100 @A1

North

Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: 52-62 MAY ROAD, NARRAWEENA DEVELOPMENT APPLICATION

Title: EROSION AND SEDIMENTATION CONTROL PLAN

Scale: 1:100

Date: 31/03/2020

Size: A1

Datum: AHD

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200014-DA-C03.01

Revision: 2

DATE PLOTTED: 9 April 2020 11:51 AM BY : CANDICE GAO

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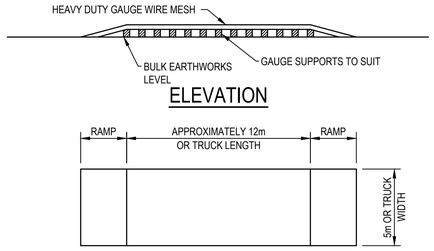
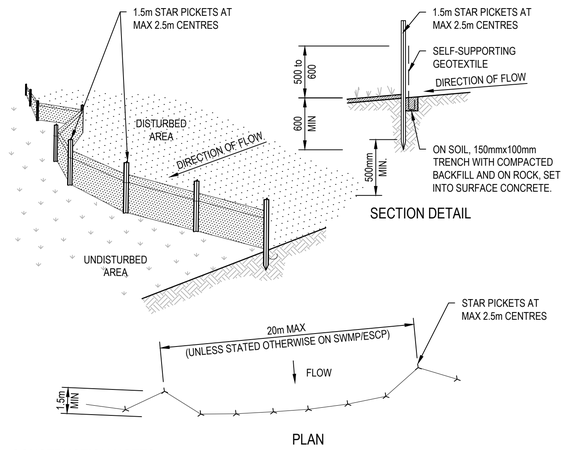


TEMPORARY CONSTRUCTION EXIT (WASH DOWN DETAIL)

NOT TO SCALE

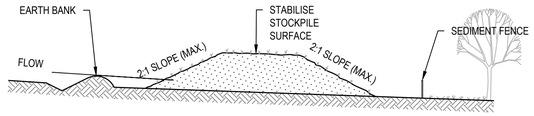
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)

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Client: THE MAY ROAD GROUP

Scale:

North:

Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: 52-62 MAY ROAD, NARRAWEENA DEVELOPMENT APPLICATION

Title: EROSION AND SEDIMENTATION CONTROL DETAILS

Scale: NTS

Date: 31/03/2020

Size: A1

Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200014-DA-C03.21

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DESIGN SUMMARY:

- SITE AREA = 1418m^2
- POST-DEVELOPMENT IMPERVIOUS AREA = 1418m^2
- AREA BYPASSING OSD = 27m^2

OSD CALCULATED USING DRAINS WITH ARR 1987 PROCEDURE.

- THE POST-DEVELOPMENT RUNOFF FOR 5, 20 AND 100 YEAR ARI STORM EVENTS MUST BE RESTRICTED TO THE PRE-DEVELOPMENT DISCHARGE RATES.
- PRE-DEVELOPMENT RATES ARE CALCULATED ON THE MAXIMUM ALLOWABLE IMPERIOUS FRACTION OF 0%.
- THE TOTAL PIPED FLOW FROM THE SITE MUST NOT EXCEED THE MAXIMUM 5 YEAR ARI PRE-DEVELOPMENT RUNOFF.

STORM	PRE-DEVELOPMENT FLOW (L/S)	POST-DEVELOPMENT SITE FLOW (L/S)	POST-DEVELOPMENT PIPE FLOW (L/S)
5YR	27	21	20
20YR	41	25	23
100YR	56	29	27

- OSD VOLUME = 68m^3 (MIN)

WSUD CALCULATED USING MUSIC SOFTWARE.

POLLUTANT	TARGET %	REDUCTION %
GROSS POLLUTANT	90	98.1
TOTAL SUSPENDED SOLIDS	85	85
TOTAL PHOSPHOROUS	65	78.4
TOTAL NITROGEN	45	51.3

- WATER QUALITY TREATMENT PROVIDED = 20 x 460 PSORB STORMFILTER CARTRIDGES

THE STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH WARRINGAH COUNCIL ON-SITE STORMWATER DETENTION TECHNICAL SPECIFICATION, PL 850 WATER MANAGEMENT POLICY AND NORTHERN BEACHES COUNCIL WSUD & MUSIC MODELLING GUIDELINES.

PUMP-OUT TANK DESIGN SUMMARY

1. PUMP-OUT STORAGE DESIGNED IN ACCORDANCE WITH AS3500.3:2015, SECTION 8.3.6

DESIGN STORM = 10 YEAR ARI, 120 MIN DURATION

CATCHMENT = 0m^2

MINIMUM EFFECTIVE STORAGE VOLUME = 3m^3.

ALLOWANCE FOR PUMP CAPACITY

MINIMUM PUMP-OUT RATE = 10L/S
DESIGN PUMP-OUT RATE = 5L/S
PUMP CAPACITY (30MIN) = 5 x 60 x60 = 9000L

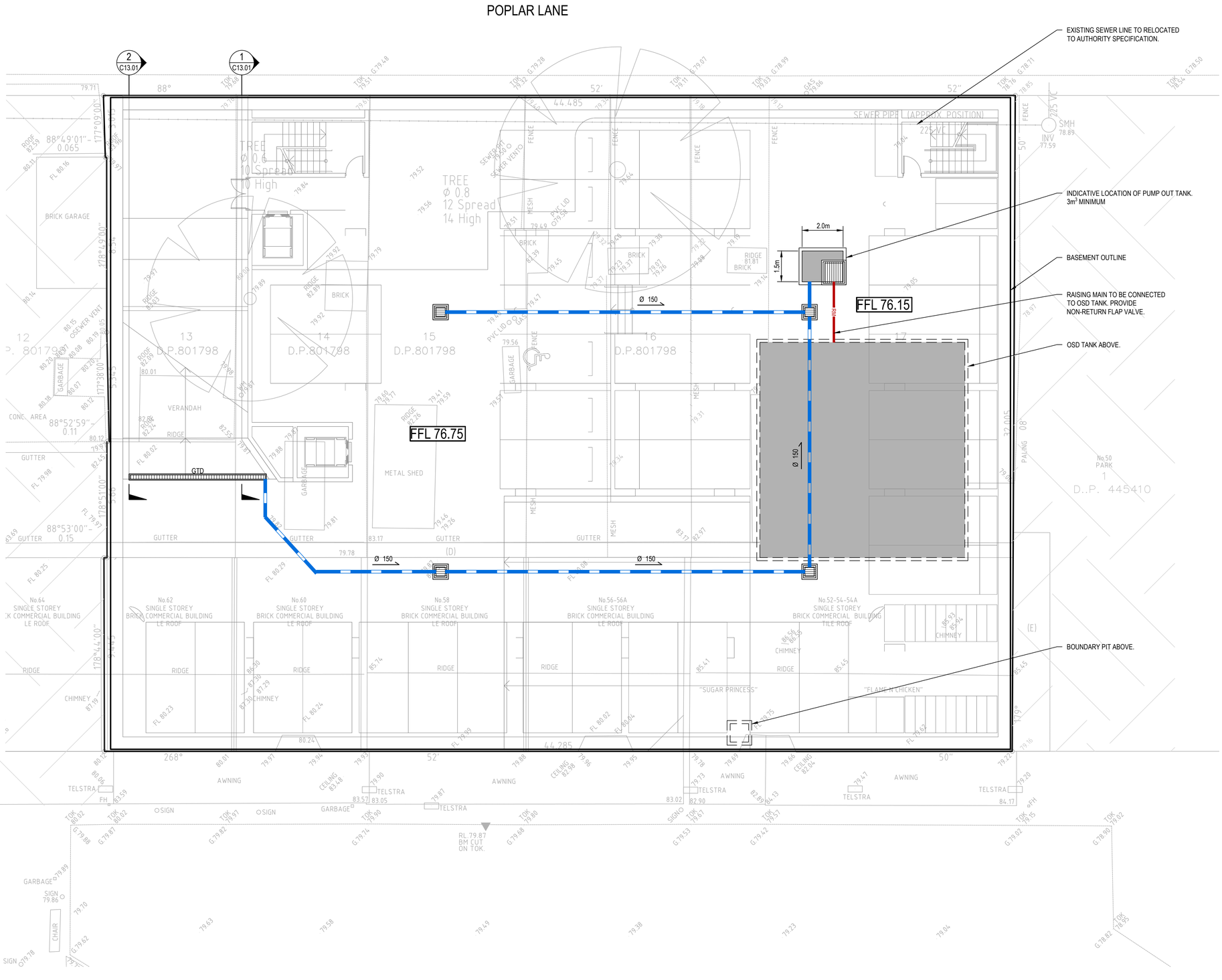
MINIMUM PUMP-OUT TANK STORAGE = 3m^3

2. PUMP-OUT TANK INCLUDE:

- DUTY AND STANDBY PUMPS WITH ALTERNATING SWITCHES (MIN 10L/S)
- FUEL GENERATOR FOR BACK-UP POWER
- HIGH LEVEL ALARM
- CONTROL PANEL
- ASSOCIATED FLOAT VALVES

LEGEND

ITEM	EXISTING	PROPOSED
SITE BOUNDARY		
PIPE SIZE	Ø375	Ø375
STORMWATER DRAINAGE LINE		
FLOW DIRECTION		
SURFACE INLET PIT		
GRATED TRENCH DRAIN		GTD
FINISHED FLOOR LEVEL		FFL 10.00
RAISING MAIN		RM
IN GROUND STORMWATER PIPE		



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Scale: 0 1 2 4 6 8 10m — SCALE 1:100 @A1

North

enspire
Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: 52-62 MAY ROAD, NARRAWEENA
DEVELOPMENT APPLICATION

Scale: 1:100
Date: 31/03/2020

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Title: SITEWORKS AND STORMWATER PLAN
BASEMENT

Size: A1
Datum: AHD

Project Number/Drawing Number: 200014-DA-C05.01
Revision: 2

DATE PLOTTED: 9 April 2020 12:09 PM BY: CANDICE GAO

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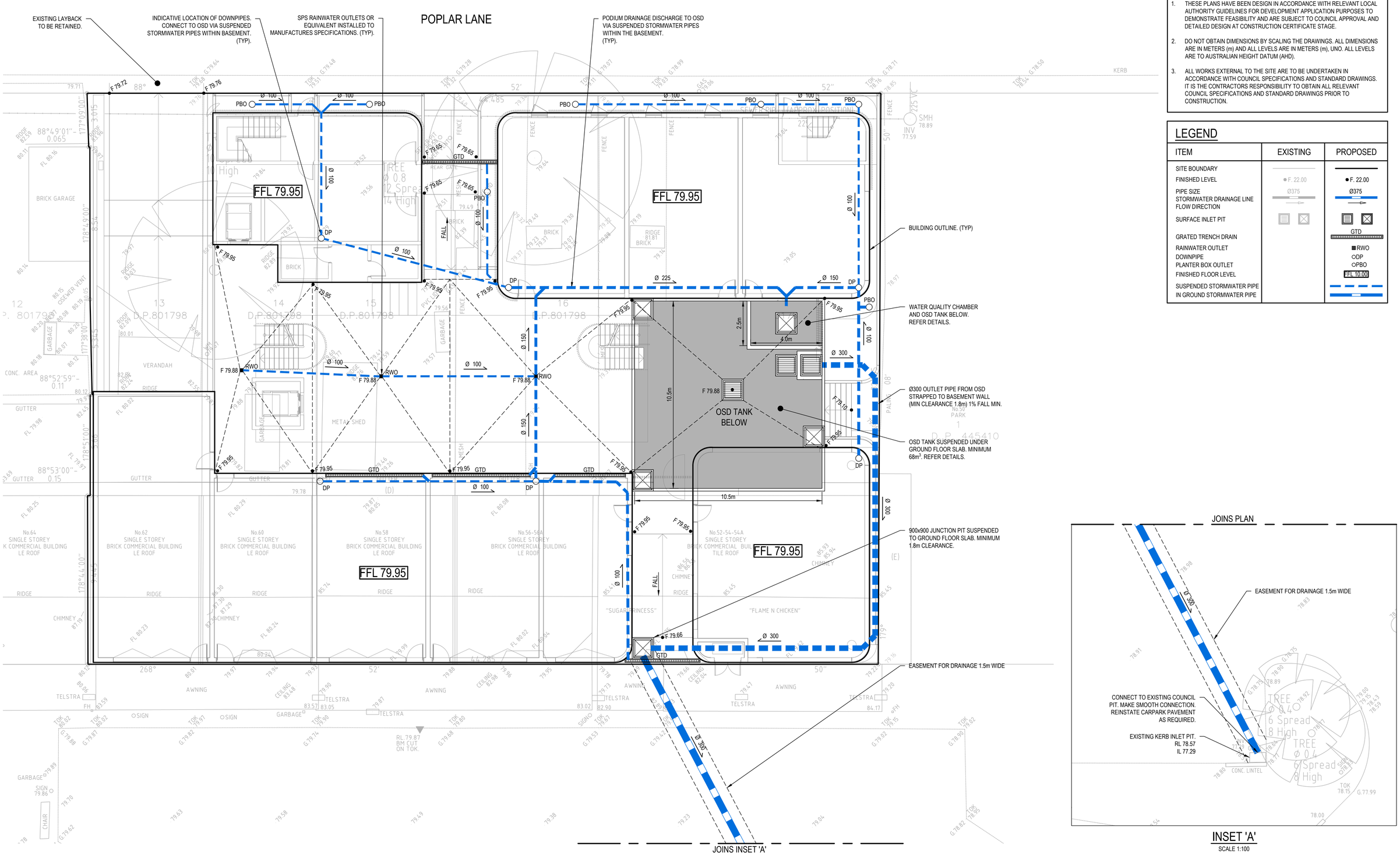

NOTES

1. THESE PLANS HAVE BEEN DESIGN IN ACCORDANCE WITH RELEVANT LOCAL AUTHORITY GUIDELINES FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY AND ARE SUBJECT TO COUNCIL APPROVAL AND DETAILED DESIGN AT CONSTRUCTION CERTIFICATE STAGE.
2. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN METERS (m) AND ALL LEVELS ARE IN METERS (m), UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
3. ALL WORKS EXTERNAL TO THE SITE ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL RELEVANT COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS PRIOR TO CONSTRUCTION.

LEGEND

ITEM	EXISTING	PROPOSED
SITE BOUNDARY		
FINISHED LEVEL	F. 22.00	F. 22.00
PIPE SIZE STORMWATER DRAINAGE LINE FLOW DIRECTION	Ø375	Ø375
SURFACE INLET PIT		
GRATED TRENCH DRAIN		GTD
RAINWATER OUTLET DOWNPIPE PLANTER BOX OUTLET		RWO ODP OPBO
FINISHED FLOOR LEVEL		FFL 10.00
SUSPENDED STORMWATER PIPE IN GROUND STORMWATER PIPE		

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Scale: 0 1 2 4 6 8 10m — SCALE 1:100 @A1

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Scale: 1:100

Date: 31/03/2020

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Title: SITEWORKS AND STORMWATER PLAN
GROUND FLOOR

Size: A1

Datum: AHD

Project Number/Drawing Number: 200014-DA-C05.02

Revision: 2

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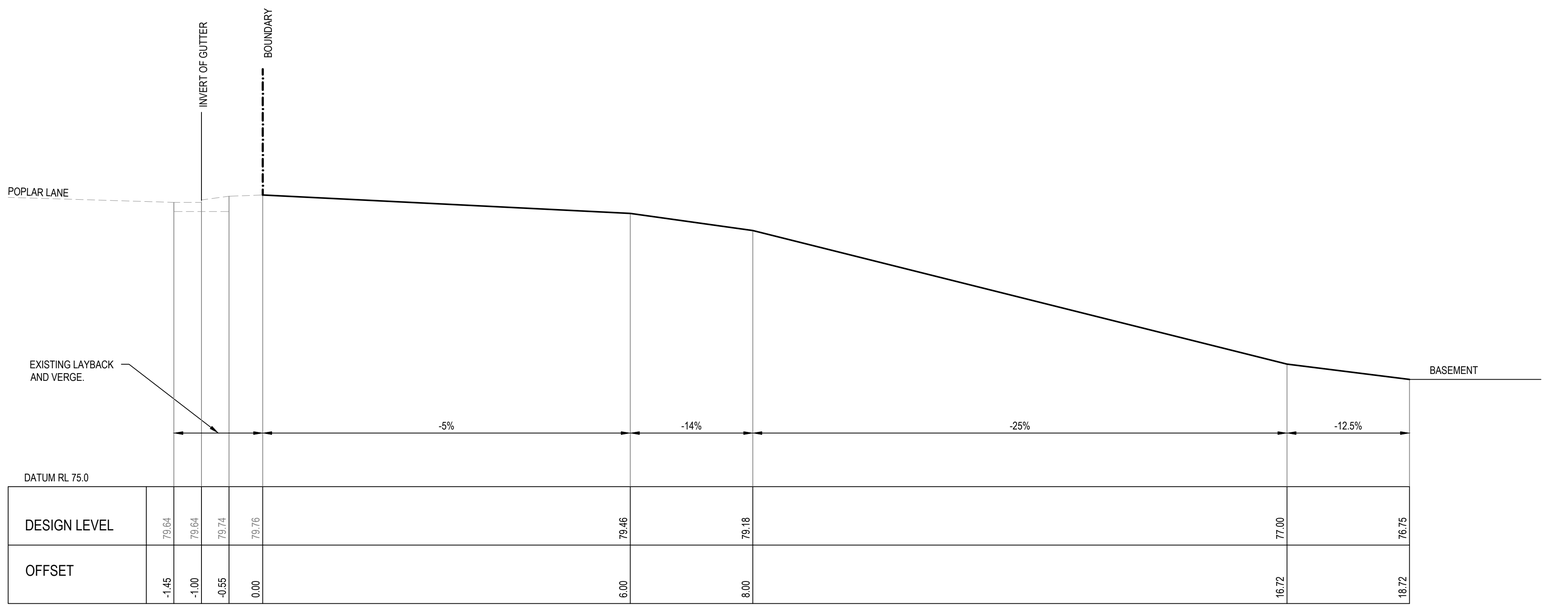

SECTION 1
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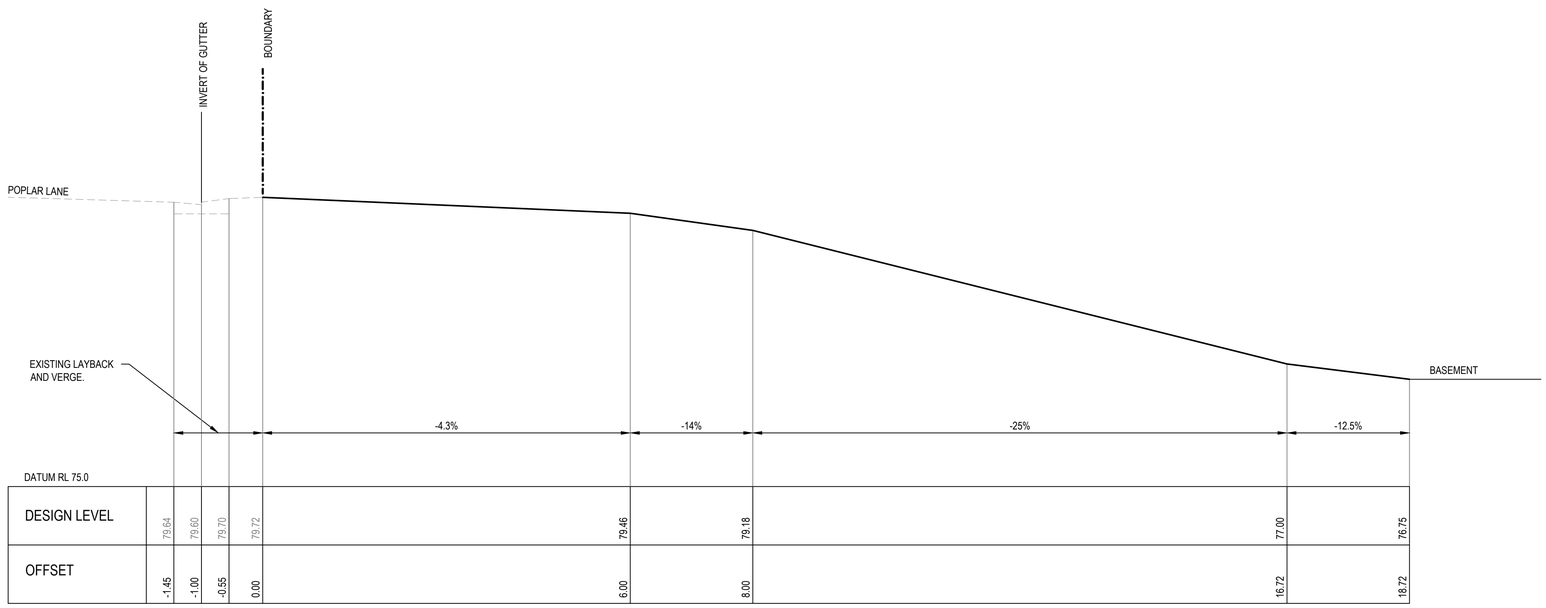
C05.01



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2	09/04/2020	ISSUED FOR DEVELOPMENT APPLICATION	EZ	CG	-	AD
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Client
THE MAY ROAD GROUP

Scale
0 1 2 3 4 5m
SCALE 1:50 @A1

North

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Project
52-62 MAY ROAD, NARRAWEENA
DEVELOPMENT APPLICATION

Title
DRIVEWAY LONGITUDINAL SECTIONS

Scale
1:50

Date
31/03/2020

Size
A1

Datum
AHD

Status
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Revision
2

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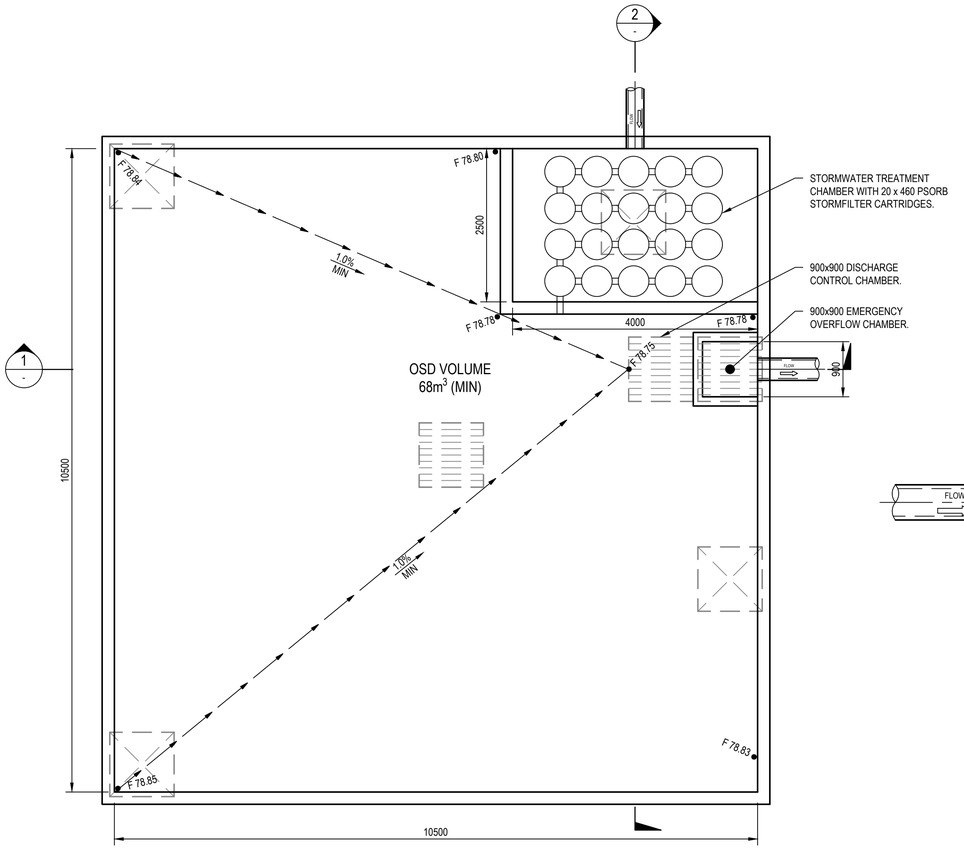
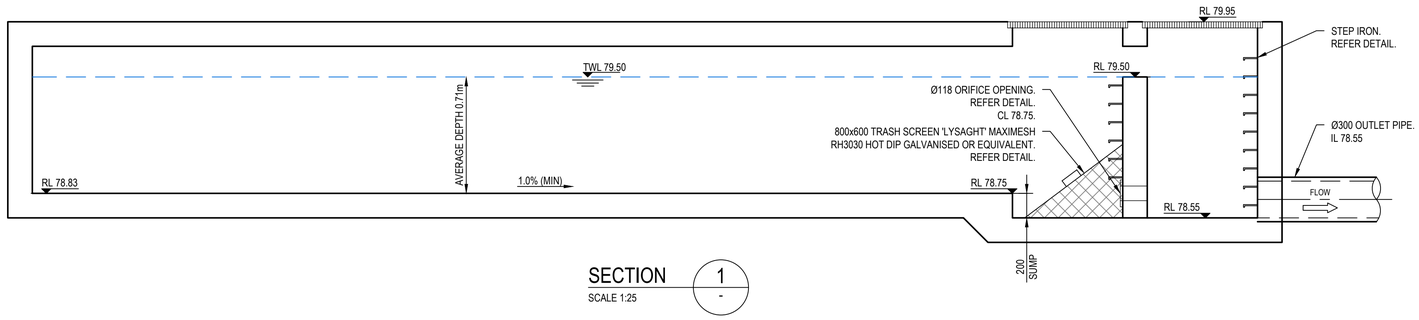


OSD PLAN
SCALE 1:50



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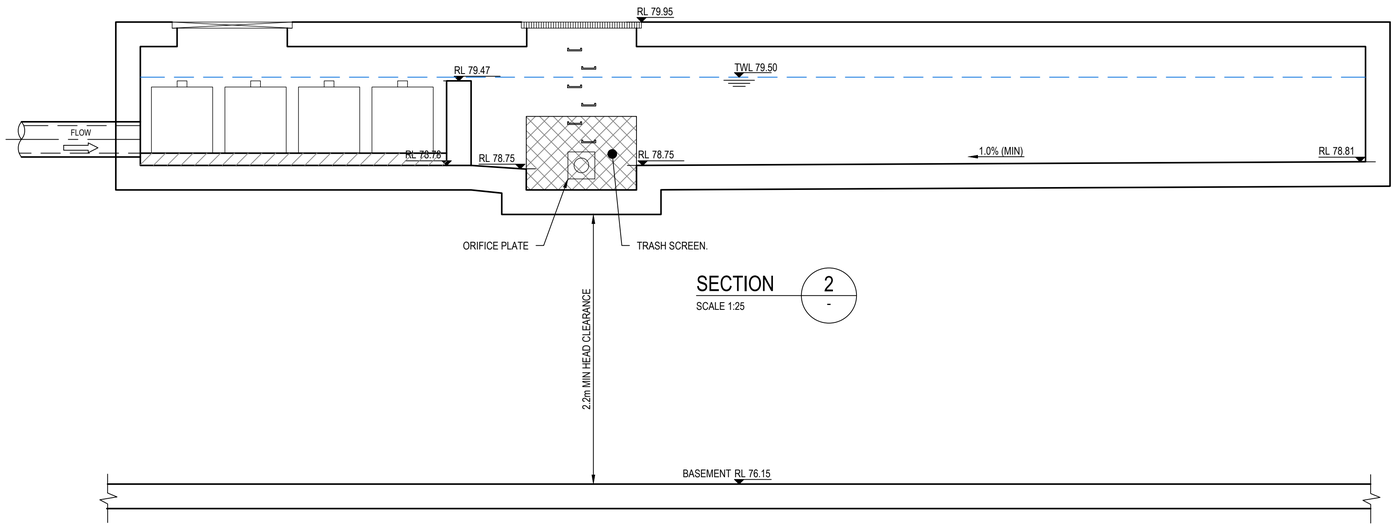

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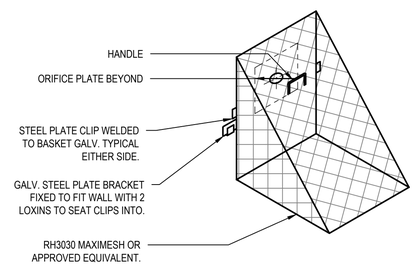
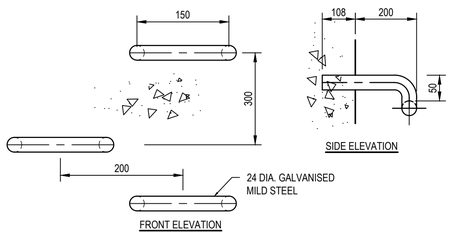
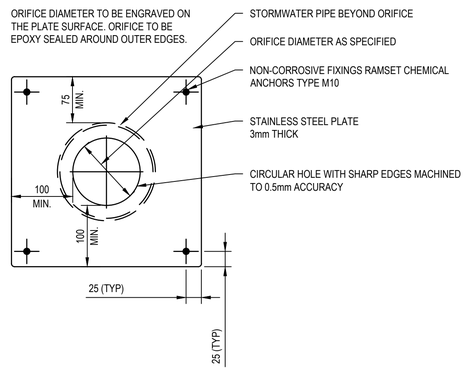


TRASH SCREEN DETAIL
N.T.S.



STEP IRON DETAIL
N.T.S.



ORIFICE PLATE DETAIL
SCALE 1:5

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Scale: 0 500 1000 1500 2000 2500mm — SCALE 1:25 @A1; 0 1000 2000 3000 4000 5000mm — SCALE 1:50 @A1

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205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: 52-62 MAY ROAD, NARRAWEENA DEVELOPMENT APPLICATION

Title: SITEWORKS DETAILS

Scale: AS SHOWN

Date: 31/03/2020

Size: A1

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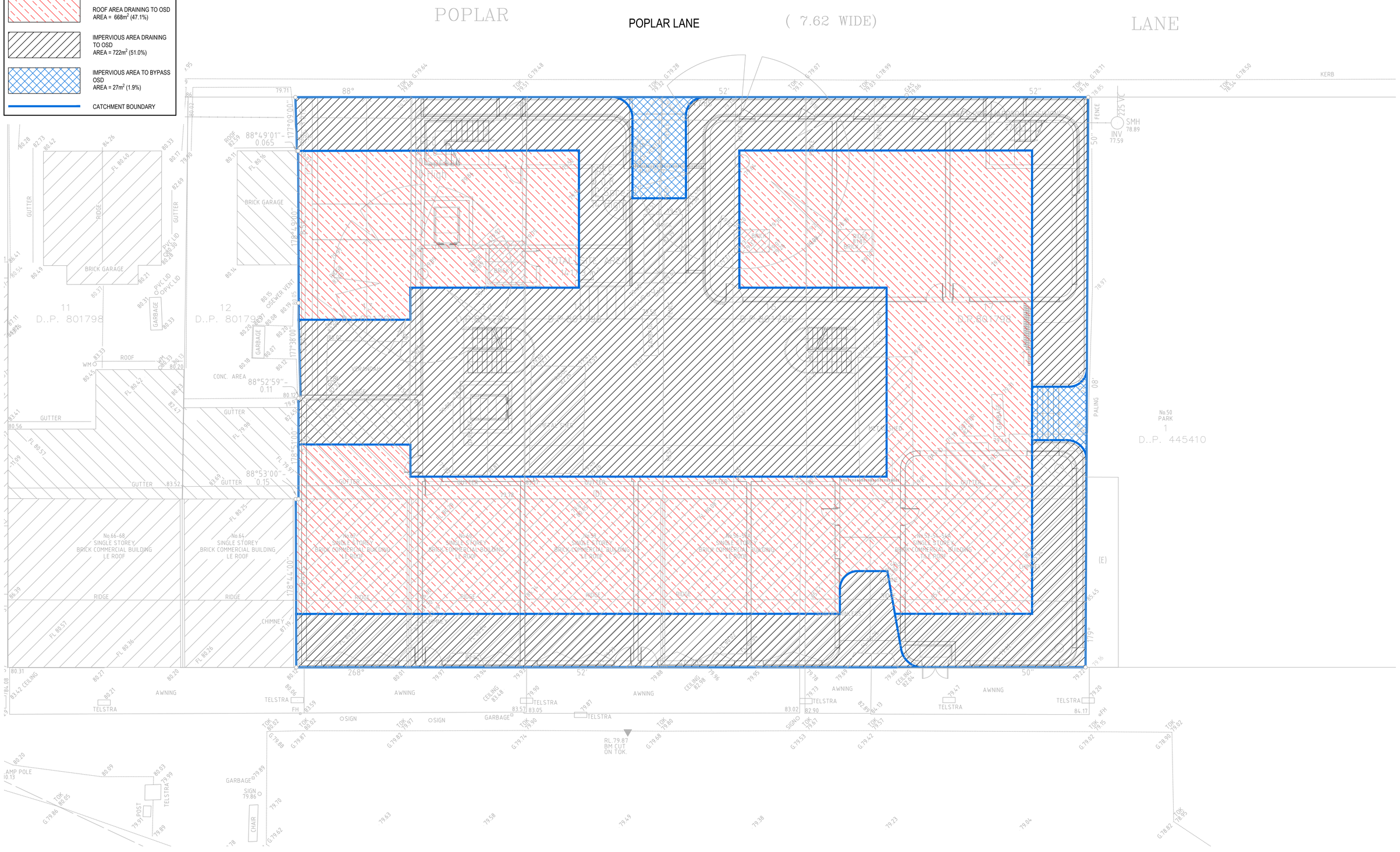
Revision: 2

DATE PLOTTED: 9 April 2020 12:13 PM BY : CANDICE GAO

CAD File: P:\200014 52-62MayRd\D-Civil\00-SiteWide\Drawings\6-DACC\200014-DA-C14.01-SITEWORKS DETAILS.dwg

LEGEND

- ROOF AREA DRAINING TO OSD
  AREA = 668m² (47.1%)
- IMPERVIOUS AREA DRAINING TO OSD
  AREA = 722m² (51.0%)
- IMPERVIOUS AREA TO BYPASS OSD
  AREA = 27m² (1.9%)
- CATCHMENT BOUNDARY



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	09/04/2020	ISSUED FOR DEVELOPMENT APPLICATION	EZ	CG	-	AD
1	31/03/2020	ISSUED FOR REVIEW	EZ	CG	-	AD

Client: THE MAY ROAD GROUP

Scale: 0 1 2 4 6 8 10m
SCALE 1:100 @A1

North

enspire
Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: 52-62 MAY ROAD, NARRAWEENA
DEVELOPMENT APPLICATION

Title: STORMWATER CATCHMENT PLAN

Scale: 1:100
Date: 31/03/2020
Size: A1
Datum: AHD

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number: 200014-DA-C22.01

Revision: 2

DATE PLOTTED: 9 April 2020 11:51 AM BY: CANDICE GAO

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