

enstruct

CIVIL ENGINEERING WORKS

MELROSE PARK HIGH SCHOOL

CIVIL ENGINEERING WORKS DRAWING LIST:

- CV-0001 COVER SHEET
- CV-0005 NOTES SHEET
- CV-0010 SURVEY OVERLAY

- CV-0101 SEDIMENT AND EROSION CONTROL PLAN
- CV-0151 SEDIMENT AND EROSION CONTROL DETAILS

- CV-0201 BULK EARTHWORKS PLAN
- CV-0251 BULK EARTHWORKS LONG SECTIONS

- CV-0401 SITEWORKS PLAN
- CV-0451 STORMWATER DETAILS
- CV-0452 DETAILS SHEET 2

- CV-0501 PAVEMENT PLAN

- CV-0601 DRAINAGE LONGSECTIONS



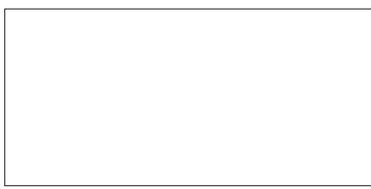
LOCALITY PLAN
SCALE 1:5000

TO BE PRINTED IN FULL COLOUR

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REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK



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PROJECT	MELROSE PARK HIGH SCHOOL
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DRAWING TITLE	COVER SHEET AND DRAWING LIST
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STATUS				FOR REF ISSUE			
SCALE AT A1	DRAWN	CHECKED	APPROVED	PROJECT NO.	SHEET	REV.	
NTS	BJ	JF	PL	PS140232-CV-0001	3	3	

GENERAL NOTES

- 1. These drawings shall be read in conjunction with all other project drawings and all other consultant's drawings including specifications and reports. Any discrepancy shall be referred to the engineer before proceeding with work.
2. All construction works to be carried out in accordance with civil specification, approved plans and to the satisfaction of the superintendent.
3. All works in the public road reserve are to be carried out to the satisfaction of and in accordance with the specification and standards of Ryde Council.
4. All dimensions shown on plans are in metres and all dimensions shown in detail drawings are in millimetres U.N.O.
5. No information is to be scaled from the drawings.
6. The contractor is to review the geotechnical report and civil specification for subgrade preparation, soil parameters and construction methodology to suit the conditions on site.
7. All dimensions relevant to setting out shall be confirmed and verified by the contractor before construction is commenced. The contractor shall report any identified discrepancies to the superintendent for clarification.
8. The contractor must arrange the requisite inspections of the works with the superintendent or their representative as per the specifications.
9. Contractor is to allow for back filling associated trenches in accordance with the civil specification / relevant drawings. All trenching works to be in accordance with the relevant act and regulations.
10. The contractor shall liaise with all relevant service authorities with respect to any service alterations or for works in the vicinity or close proximity to existing services. The contractor shall be required to seek clearance, program and coordinate these works with the relevant service authority and their contractors at their own expense.
11. At the completion of all works, all rubbish, debris and surplus spoil shall be removed and the site shall be cleared to the satisfaction of the superintendent or their representative.
12. Any infrastructure damage during the defects liability period is the responsibility of the contractor and is to be reinstated to the satisfaction of the superintendent or their representative.
10. It is the contractor's responsibility to submit the as-built drawings (including digital format) to the superintendent and design engineer at the completion of the construction works. Any unapproved discrepancies must be rectified at the contractor's expense to the satisfaction of the superintendent and / or engineer.

DBYD SERVICES NOTE

"Public Service Utility information shown on plan has been compiled from information received from Dial Before You Dig inquiry, reference Number 37566911, which was obtained on 13/09/2024. Unless specifically shown otherwise, this location and depth of services shown on this plan have not been verified.

The location of services shown on this drawing have been plotted as accurately as possible from diagrams provided by service authorities and should be confirmed by site inspection."

SURVEY

- 1. The survey as shown on Enstruct drawings was prepared by 'LTS' Date DEC 2014 Reference 41367 130DT Datum of levels AHD Coordinate system MGA-66
2. Enstruct does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.
3. Existing contours shown reflect site conditions at time of survey.
4. Enstruct plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.
5. The contractor is to get approval from the relevant state survey department to remove/adjust any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.

UNDERGROUND SERVICES

- 1. Service information shown is approximate only and is based on publicly available information and information supplied by the surveyor. U.N.O.
2. Compliance with all authorities and service providers is required at all times.
3. Enstruct accepts no responsibilities in relation to the extent and location of existing services in the vicinity of the site.
4. Contractors must ascertain the precise location and depth of all existing services that could be affected by the works. Where existing services are found to be in dash of the works, the contractor should notify the superintendent accordingly.
5. The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation. Enstruct does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.
6. The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

EROSION AND SEDIMENT CONTROL NOTES

- 1. All work shall be generally carried out in accordance with (A) Local authority requirements, (B) EPA - Pollution control manual for urban stormwater, (C) LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

- 1. Prior to commencement of excavation the following soil management devices must be installed:
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream clean flows into existing stormwater system.
1.4. Construct sedimentation traps/basin (if any) including outlet control and overflow; otherwise allocate a place for the runoff and temporary sediment storage.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all existing pits and proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environmental consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system. This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

KERBING NOTES

Includes all kerbs, gutters, dish drains, crossings and edges.

- 1. All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
2. Expansion joints (EJ) to be formed from 10mm compressible cork filler board for the full depth of the section and cut to profile. Expansion joints to be located at drainage pits, on tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
3. Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
4. Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
5. In the replacement of kerbs - Existing road pavement is to be sawcut 900mm from: Lip of gutter, invert of kerb, or edge of dish drain. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses.
6. Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole.
7. Existing kerbs are to be completely removed where new kerbs are shown.

ESFG NOTES

- 1. ESFG Design Guidelines and Specifications take precedence over any inconsistencies with the information provided.
2. Refer to ESFG departures schedule for any expected design change.

BULK EARTHWORKS GENERAL NOTES

- 1. All bulk earthworks setout from grid lines U.N.O.
2. (i) All permanent batter max slope of 4(H) :1(V) U.N.O. (ii) All temporary batter max slope of 4(H) :1(V) U.N.O. Batters are not to exceed Geotechnical engineer specifications.
3. Excavated material may be used as structural fill provided, (i) it complies with the specification requirements for fill material, (ii) the placement moisture content complies with the Geotechnical Consultants requirements, and allows filling to be placed and proofrolled in accordance with the specification. Where necessary the Contractor must moisture condition the excavated material to meet these requirements.
4. Compact fill areas and subgrade to not less than:

Table with 3 columns: Location, Standard dry density (AS 1289 5.1.1.), Moisture (OMC)

- 5. Before placing fill, proof roll exposed subgrade with a 10 tonne minimum roller to test subgrade and then remove soft spots (areas with more than 3mm movement under roller). Soft spots to be replaced with granular fill U.N.O.
6. Contractor to provide proof roll compaction evidence for signoff.
7. Contractor shall place safety barriers around excavations in accordance with relevant safety regulations.
8. For interpretation of bulk earthworks foot print line shown on the bulk earthworks drawings refer to the bulk earthworks construction legend.
9. Bulk earthwork drawings are not to be used for detailed excavation.
10. Refer to the Geotechnical Report X X

STORMWATER DRAINAGE NOTES

- 1. Stormwater Design Criteria : (A) Average exceedance probability - 1% AEP for roof drainage to first external pit 5% AEP for paved and landscaped areas (B) Rainfall intensities - Time of concentration: As per kinematic wave equation (C) Rainfall losses - refer to civil report for all intensities
2. Pipes 300 dia and larger to be reinforced concrete Class " " approved spigot and socket with rubber ring joints U.N.O. Pipes in public roadways (including public domain) to be class " " reinforced concrete.
3. Pipes up to 225 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer
5. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
6. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
7. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
8. Adopt invert levels for pipe installation (grades shown are only nominal).
8. All downpipe connections are to be 150mm DIA or the same size as the downpipe (whichever is larger) laid at 1% minimum fall connection to the nearest pit. Minimum cover 450mm in non-trafficable landscaped areas.
9. Pits in roadways (including public domain) are to be in situ to council details.
10. Pit grates and covers shall conform with AS3996-2006, and AS1428.1 for access requirements.

SUBSOIL NOTES

- 1. Subsoil drains to be slotted flexible uPVC U.N.O.
2. All subsoil drainage shall outlet to drainage pits or land drains.
3. Pavement subsoil drains are to be placed in accordance with standard drawings behind all kerb and gutter, on the low side of all pavements, and road crossings at sag vertical curves.
4. Where subsoil drains pass under floor slabs and/or vehicular pavements, unslotted uPVC sewer grade pipe is to be used.

RETAINING WALLS

- 1. Drainage shall be provided behind all walls. Refer to the drainage drawings for connections.
2. Backfilling shall be carried out after grout or concrete has reached a minimum strength of 0.85 fc. Backfilling shall be approved granular material compacted in layers not exceeding 200mm to 95% Standard compaction unless noted otherwise.
3. Subgrade bearing tests must be completed and results reviewed prior to commencement of wall works.
4. Provide waterproofing to back of walls as specified or noted.
5. Where retaining walls rely on connecting structural elements for stability, do not backfill against the wall unless it is adequately propped or the elements have been constructed and have sufficient strength to withstand the loads.
6. For all temporary batters obtain geotechnical engineers recommendations.

TENDER NOTES

- 1. These drawings are preliminary drawings issued for tender as an indication of the extent of works only. They are not a complete construction set of drawings. Further development/coordination might be required in some areas as the design progresses into detail.
2. To determine the full extent of work, these drawings shall be read in conjunction with the architectural drawings and other contract documents. Allow for all items shown on architectural and other drawings as not all items are shown on the structural/civil works drawings.
3. Should any ambiguity, error, omissions, discrepancy, inconsistency or other fault exist or seem to exist in the documents, immediately notify in writing to the Superintendent.
4. Information shown on the drawings are for the final structure/civil works in place and do not allow for any wastage, rolling margins, over supply or fabrication requirements, etc.

CONCRETE NOTES

EXPOSURE CLASSIFICATION : External :B2

CONCRETE

Place concrete of the following characteristic compressive strength fc as defined in AS 1379.

Table with 4 columns: Location, AS 1379 fc MPa at 28 days, Specified Slump, Nominal Agg. Size

- 1. Use Type 'GP' cement, unless otherwise specified.
2. All concrete shall be subject to project assessment and testing to AS 1379.
3. Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.
4. For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.
5. The location of all construction joints shall be submitted to Engineer for review.
6. No holes or chases shall be made in the slab without the approval of the Engineer.
7. Slurry used to lubricate concrete pump lines is not to be used in any concrete members.
8. All building slabs cast on ground require sand blinding with a Concrete Underlay. Refer to structural drawings.

FORMWORK

- 1. The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of the contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

CONCRETE REINFORCEMENT NOTES

- 1. Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below. On the drawings this is followed by a numeral which indicates the size in millimetres of the reinforcement.
N. Hot rolled ribbed bar grade D500N
R. Plain round bar grade R250N
SL. Square mesh grade 500L
RL. Rectangular mesh grade 500L
2. Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise noted on drawings.

Footings - 50 top, 50 bottom, 50 sides.

- Walls - 30 generally, - 30 when cast in forms but later exposed to weather or ground. - .. when cast directly in contact with ground.
3. Cover to reinforcement ends to be 50 mm u.n.o.
4. Provide N12-450 support bars to top reinforcement as required, Lap 500 U.N.O.
5. Maintain cover to all pipes, conduits, reglets, drip grooves etc
6. All cogs to be standard cogs unless noted otherwise.
7. Fabric end and side laps are to be placed strictly in accordance with the manufacturers requirements to achieve a full tensile lap. Fabric shall be laid so that there is a maximum of 3 layers at any location.

FABRIC LAPS

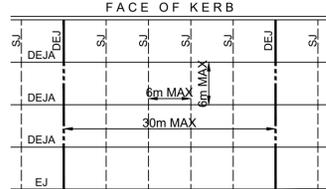


- 8. Laps in reinforcement shall be made only where shown on the drawings unless otherwise approved. Lap lengths as per table below.

JOINTING NOTES

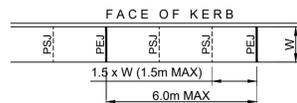
Vehicular Pavement Jointing

- 1. All vehicular pavements to be jointed as shown on drawings.
2. Keyed construction joints should generally be located at a maximum of 6m centres.
3. Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
4. Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
5. The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required.
6. Vehicular pavement jointing as follows.



Pedestrian Footpath Jointing

- 1. Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
2. Weakened plane/Sawcut joints are to be located at a max 1.5 x width of the pavement.
3. Where possible joints should be located to match kerbing and / or adjacent pavement joints.
4. All pedestrian footpath jointings as follows (uno).



TO BE PRINTED IN FULL COLOUR

Table with 5 columns: REV, DATE, DESCRIPTION, DRN, CHK

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Table with 2 columns: PROJECT (MELROSE PARK HIGH SCHOOL), DRAWING TITLE (NOTES SHEET)

Table with 2 columns: STATUS (FOR REF ISSUE), SCALE AT A1 (NTS), DRAWN (BJ), CHECKED (JF), APPROVED (PL), PROJECT NO. SHEET (PS140232-CV-0005), REV. (3)

EROSION AND SEDIMENT CONTROL LEGEND

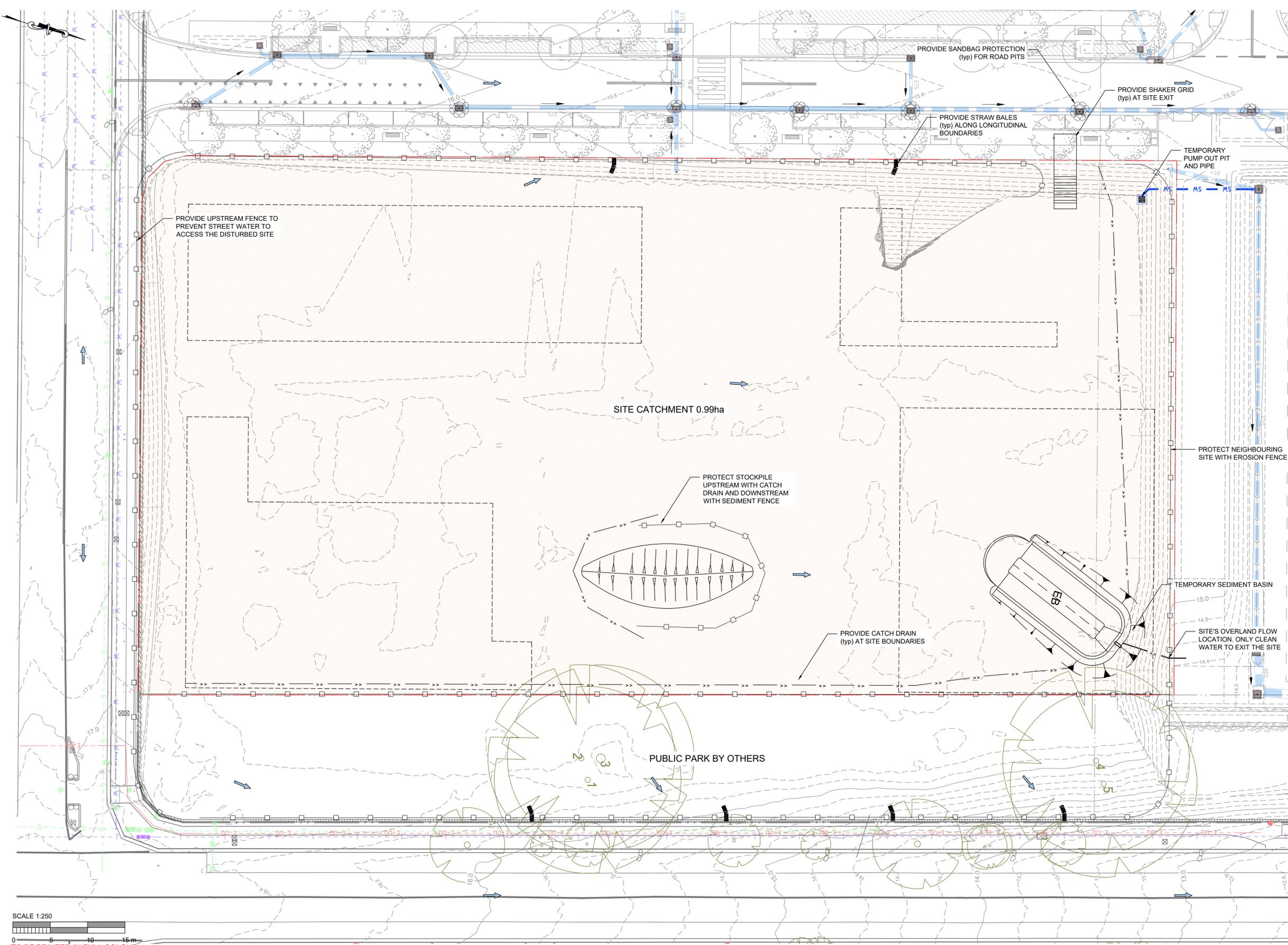
-  EXISTING CONTOUR
-  MASTERPLAN STORMWATER (BY OTHERS)
-  BATTER
-  SILTATION FENCE, WITH STAR PICKETS AT MAX 2.5M CENTRES (TYP)
-  CATCH DRAIN
-  OVERLAND FLOW PATH
-  TREE TO BE REMOVED
-  STOCKPILE
-  STORMWATER PIT, WITH GEOTEXTILE FILTER
-  STRAW BALE BARRIERS
-  SANDBAG SEDIMENT TRAP
-  DISTURBED SURFACE AREA
-  EROSION BASIN

EXISTING SERVICES LEGEND

-  E-OH Existing electrical (over head)
-  E-UG Existing electrical (underground)
-  G Existing gas
-  S Existing sewer
-  SW Existing stormwater
-  T Existing telecommunications
-  W Existing water

NOTES:

- THE EXISTING CONTOURS SHOWN ARE A COMBINATION OF:
 - SURVEY TIN, DATED 17/09/2024;
 - MASTERPLAN TIN CONSTRUCTION SET
- FOR EROSION AND CONTROL NOTES AND DETAILS REFER TO SHEET CV-0151



PROVIDE UPSTREAM FENCE TO PREVENT STREET WATER TO ACCESS THE DISTURBED SITE

SITE CATCHMENT 0.99ha

PROTECT STOCKPILE UPSTREAM WITH CATCH DRAIN AND DOWNSTREAM WITH SEDIMENT FENCE

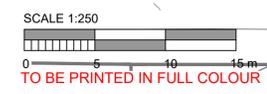
PUBLIC PARK BY OTHERS

PROVIDE CATCH DRAIN (typ) AT SITE BOUNDARIES

PROTECT NEIGHBOURING SITE WITH EROSION FENCE

TEMPORARY SEDIMENT BASIN

SITE'S OVERLAND FLOW LOCATION. ONLY CLEAN WATER TO EXIT THE SITE



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REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
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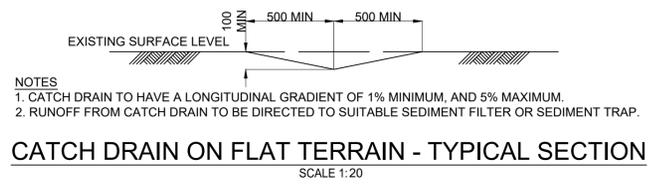
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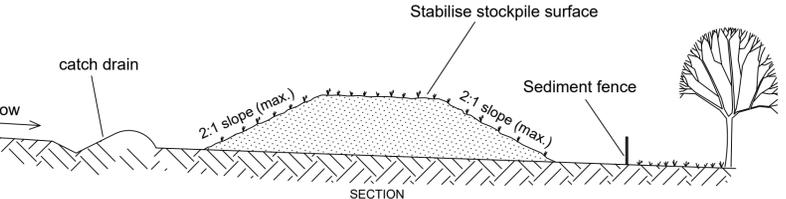
PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

STATUS FOR REF ISSUE			
SCALE AT A1 1:250	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0101	SHEET	REV. 3	

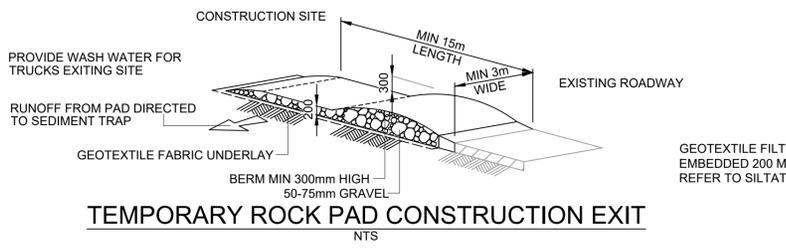


CATCH DRAIN ON FLAT TERRAIN - TYPICAL SECTION
SCALE 1:20

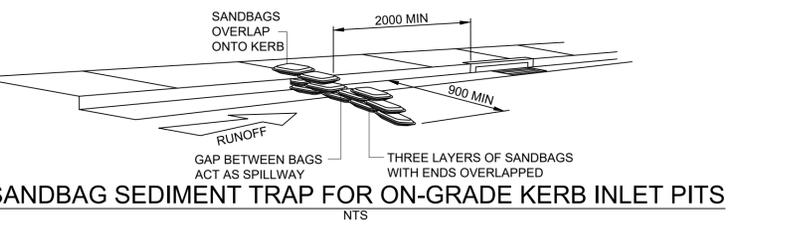


- CONSTRUCTION NOTES**
- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS. COORDINATE WITH ARBORIST IF REQUIRED.
 - CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
 - WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
 - WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP
 - CONSTRUCT EARTH BANKS (TYP) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (TYP) 1 TO 2 METRES DOWNSLOPE. REFER TO TYPICAL DETAILS

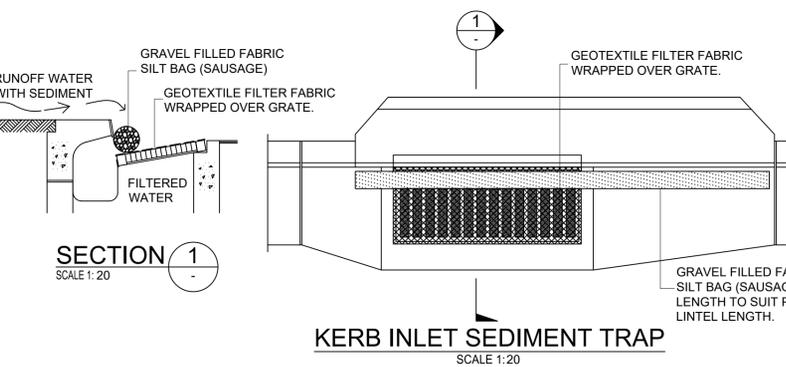
STOCKPILES
NTS



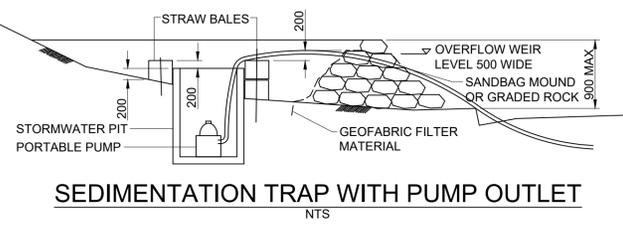
TEMPORARY ROCK PAD CONSTRUCTION EXIT
NTS



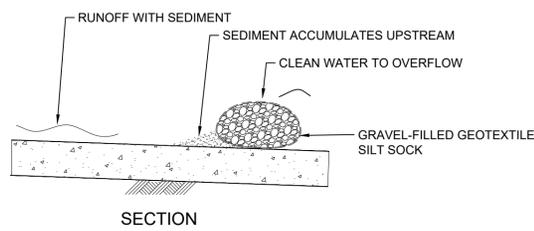
SANDBAG SEDIMENT TRAP FOR ON-GRADE KERB INLET PITS
NTS



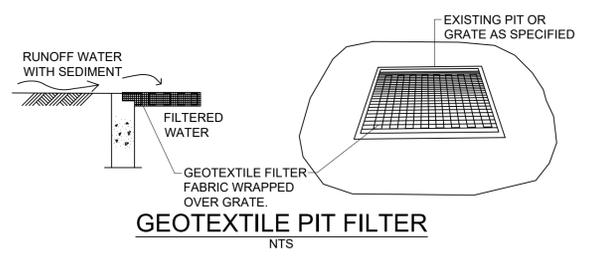
KERB INLET SEDIMENT TRAP
SCALE 1:20



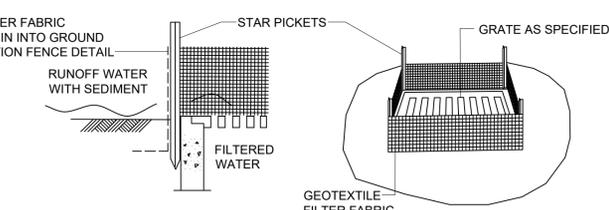
SEDIMENTATION TRAP WITH PUMP OUTLET
NTS



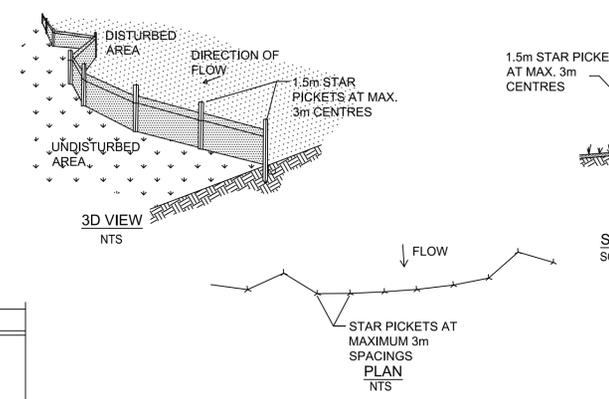
SILT SOCK
NTS



GEOTEXTILE PIT FILTER
NTS

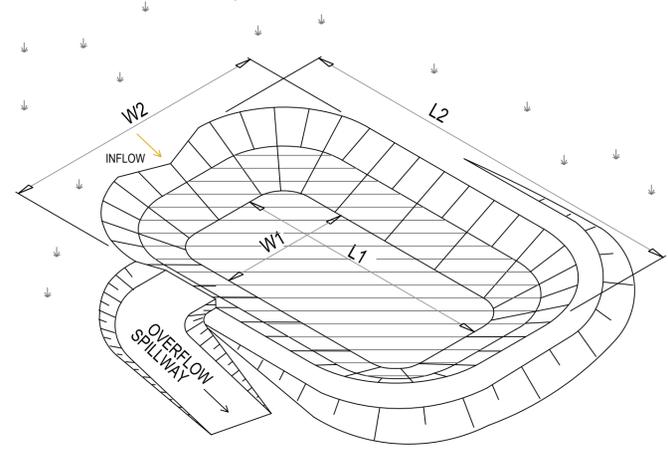


GEOTEXTILE FILTER PIT SURROUND
NTS

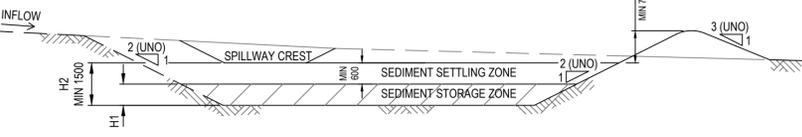


- NOTES**
- CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
 - DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 3 METRES APART.
 - DIG A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 - BACKFILL TRENCH OVER BASE OF FABRIC.
 - FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
 - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

SILTATION FENCE DETAIL



PERSPECTIVE VIEW



TYPICAL LONGSECTION

- NOTES**
- CONFIGURATION TO BE USED ONLY FOR TYPES D (DISPERSIBLE) AND F (FINES). REFER TO 'BLUEBOOK' FOR FURTHER INFORMATION ON SOIL CLASSIFICATION. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 150MM AND COMPACT THE EXISTING SUBSTRATE.
 - SELECT FILL FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL. SPREAD FILL IN 100 TO 150MM LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT.
 - TEMPORARY BASIN WILL REMAIN FOR THE DURATION OF EXCAVATION AND BULK EARTHWORKS.
 - MAINTENANCE MUST BE PERFORMED AT A REGULAR BASIS FOR THE DURATION OF WORKS, BASIN MUST BE EMPTIED WHEN FULL OR AFTER A CONSIDERABLE STORM EVENT, ONCE THE PARTICLES SETTLED.
 - REFER TO THE CIVIL PLANS FOR ITS DESIRED LOCATION AND FURTHER NOTES.

SEDIMENT BASIN TYPE 'D' AND 'F' (WET)
NTS

In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(ii)). However, on Soil Loss Classes 5, 6 and 7 lands, the zone must contain the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii)).

Place an "X" in the box below to show the sediment storage zone design parameters used here:

50% of settling zone capacity,

2 months soil loss calculated by RUSLE

Catchment	Cv	Rx-day, y-%ile	Total catchment area (ha)*	Settling zone volume (m3)*	Sediment storage volume (m3)*	Total basin volume (m3)* Required
1	0.50	29.7*	0.99	147*	73	220

*5-DAY, 80th PERCENTILE

BASIN SIZE	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m3)
B-1	19.60	7.5	1.5	220

- EROSION AND SEDIMENT CONTROL NOTES**
- ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH (A) LOCAL AUTHORITY REQUIREMENTS, (B) EPA - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER, (C) LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").
 - EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
 - WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
 - MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
 - PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
 - ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
 - CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
 - ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
 - ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
 - MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
 - CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.
- SEQUENCE OF WORKS**
- PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED:
 - CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.
 - CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE MEASURES.
 - CONSTRUCT MEASURES TO DIVERT UPSTREAM CLEAN FLOWS INTO EXISTING STORMWATER SYSTEM.
 - CONSTRUCT SEDIMENTATION TRAPS/BASIN (IF ANY) INCLUDING OUTLET CONTROL AND OVERFLOW, OTHERWISE ALLOCATE A PLACE FOR THE RUNOFF AND TEMPORARY SEDIMENT STORAGE.
 - CONSTRUCT TURF LINED SWALES.
 - PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.
 - CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL EXISTING PITS AND PROPOSED PITS AS THEY ARE CONSTRUCTED.
 - ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
 - PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

- WATER QUALITY TESTING REQUIREMENTS**
- PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT OUTLINING THE FOLLOWING:
- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
 - IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM. THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE QUALITY OF WATER DISCHARGED FROM THIS SITE. THIS SHOULD OUTLINE THE FREQUENCY OF WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

- EROSION AND SEDIMENT CONTROL PUMP OUT NOTES**
- ANY ACCUMULATED WATER CONTAMINATED WITH SEDIMENT, FROM A SEDIMENT BASIN OR EXCAVATION PIT, IS TO BE FLOCCULATED OR FILTERED IN ORDER TO LOWER THE SUSPENDED SOLID LOAD TO LESS THAN 50MG PER LITRE
- GYPSUM GAS OR OTHER APPROVED FLOCCULANT SHOULD BE APPLIED WITHIN 24 HOURS OF THE END OF THE STORM EVENT. THE GYPSUM MUST BE SPREAD EVENLY OVER THE ENTIRE WATER SURFACE. PUMPING IS NOT TO OCCUR FOR AT LEAST 36 HOURS AND PREFERABLY 48 HOURS AFTER APPLICATION. CLEAN WATER IS TO BE DISCHARGED TO THE WATER TABLE VIA A HALE BAIL SEDIMENT FILTER IN A WAY THAT DOES NOT PICK UP SEDIMENT THAT HAS DROPPED TO THE BOTTOM.
- NOTE: GYPSUM IS A HYDRATED FORM OF CALCIUM SULPHATE AND IS AVAILABLE AT MANY SWIMMING POOL SHOPS AND HARDWARE STORES.

NOT FOR CONSTRUCTION

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TO BE PRINTED IN FULL COLOUR

REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK

REV	DATE	DESCRIPTION	DRN	CHK

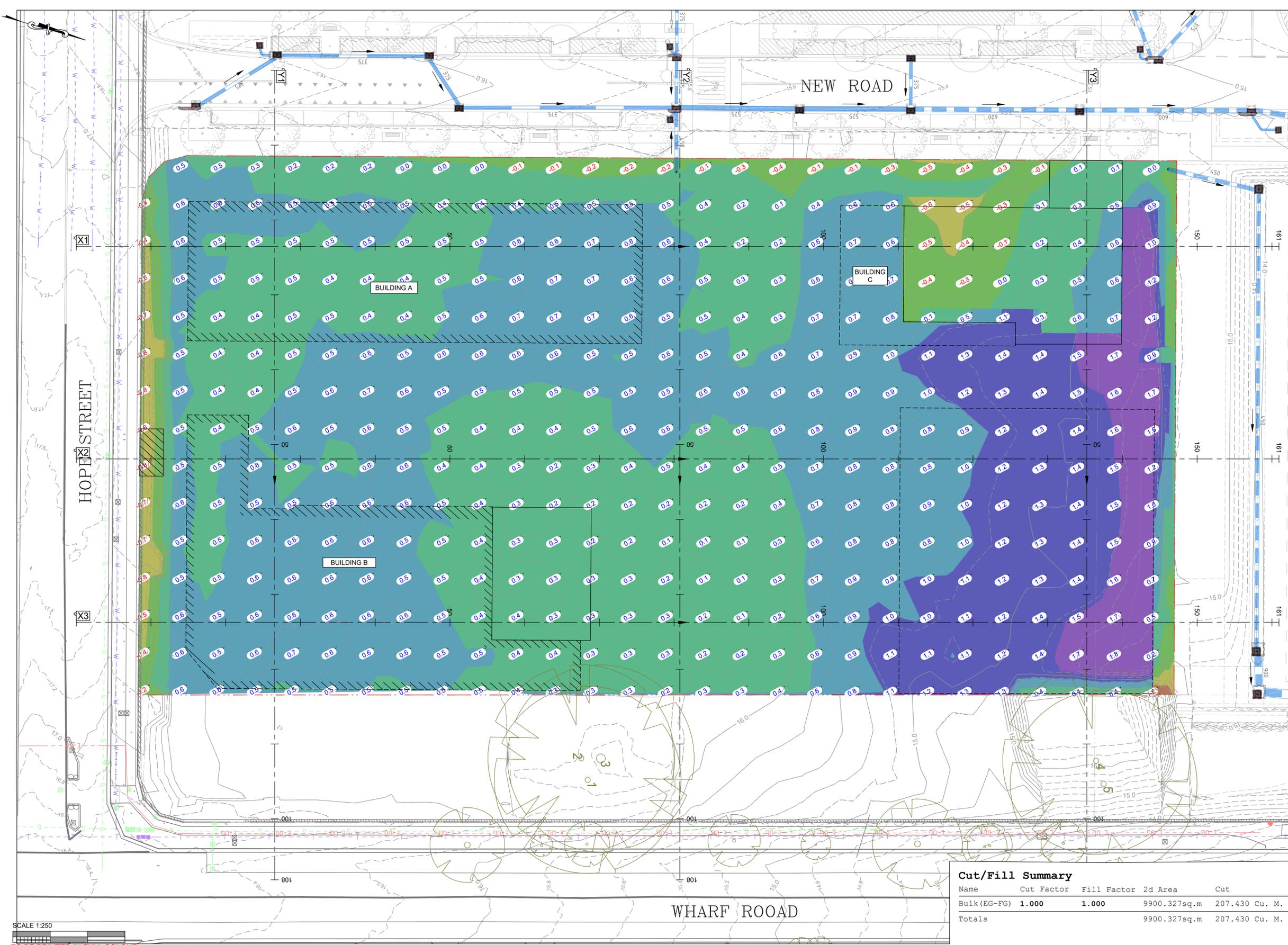
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PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

STATUS			
FOR REF ISSUE			
SCALE AT A1 AS SHOWN	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0151	SHEET	REV. 3	



LEGEND

- BOUNDARY
- x 1.30 CUT DEPTH
- x 1.20 FILL DEPTH
- 10.0 EXISTING CONTOURS (200 INT)

- NOTES:**
1. THIS DRAWING IS AN ESTIMATE FOR INFORMATION ONLY WHICH SHOULD NOT BE TAKEN AS AN ACCURATE MEASUREMENT AND SHOULD NOT BE USED FOR CONSTRUCTION.
 2. THIS MODEL REPRESENTS A LEVEL COMPARISON BETWEEN: A) THE EXISTING SURFACE LEVELS (SURVEY PROVIDED DATED 17/09/24), AND B) THE PROPOSED DEVELOPMENT LEVELS.
 3. THIS ESTIMATE DOES NOT INCLUDE EXCAVATION FOR ANY BELOW GROUND SERVICES INCLUDING STORMWATER INFRASTRUCTURE.
 4. NO ALLOWANCE HAS BEEN CONSIDERED FOR TOPSOIL REMOVAL, SERVICE TRENCHES, IN GROUND TANKS, STRUCTURAL FOOTINGS, FLOOR SLABS OR LIFT PITS. NO BULKING FACTOR HAVE BEEN APPLIED TO THE BULK EXCAVATION VOLUMES.
 6. IT HAS BEEN ASSUMED THAT ALL EXCAVATED MATERIAL IS NOT CONTAMINATED AND CAN BE USED AS FILL MATERIAL ON SITE.
 7. ANY DAMAGE TO EXISTING ROADS OR EXISTING BUILDINGS WILL BE RECTIFIED BY THE CONTRACTOR AT HIS EXPENSE.
 8. ALL ENVIRONMENTAL MEASURES INCLUDING VEGETATION PROTECTION AND EROSION AND SEDIMENT CONTROLS SHALL BE PLACE PRIOR TO THE COMMENCEMENT OF ANY WORK.
 9. EROSION PLANS AND BUILDING REPRESENTATIVE FAMILIAR WITH THE PLAN MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION.
 10. ALL ARCHITECTURAL FINISHED SURFACE LEVELS SUPERSEDE THOSE INDICATED ON THE BULK EARTHWORKS PLAN. THE CONTRACTOR SHALL CONFIRM THE FINAL BUILDING PAD LEVEL REQUIRED TO SUIT THE STRUCTURAL DESIGN WITH THE STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
 11. REFER GEOTECHNICAL REPORT / ENGINEER FOR SUITABILITY OF MATERIAL WON FROM EXCAVATION BACKFILL.
 12. NOT TO BE USED FOR DETAILED EXCAVATION, WHICH INCLUDES: LIFT PITS, TRENCHING, FOOTINGS AND OTHER EXCAVATION OF SIMILAR NATURE

Cut and Fill depth ranges

Number	Color	Min depth (m)	Max depth (m)
1		-2.0	-1.5
2		-1.5	-1.0
3		-1.0	-0.5
4		-0.5	0.0
5		0.0	0.5
6		0.5	1.0
7		1.0	1.5
8		1.5	2.0

Cut/Fill Summary

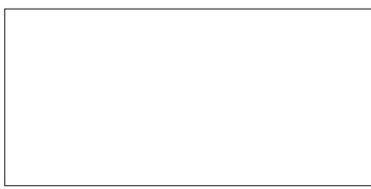
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Bulk (EG-FG)	1.000	1.000	9900.327sq.m	207.430 Cu. M.	5879.127 Cu. M.	5671.697 Cu. M.<Fill>
Totals			9900.327sq.m	207.430 Cu. M.	5879.127 Cu. M.	5671.697 Cu. M.<Fill>

SCALE 1:250
 TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	CHK
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2	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK

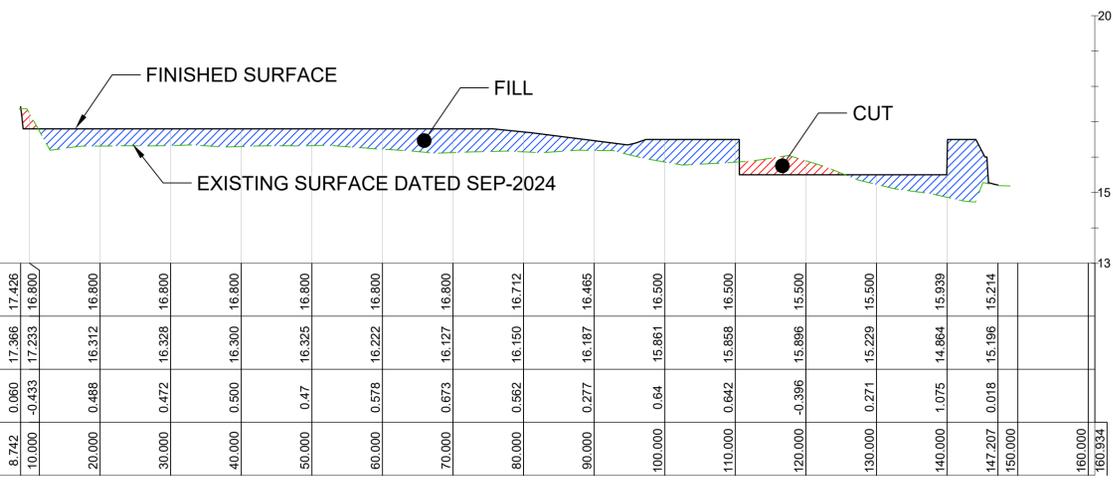


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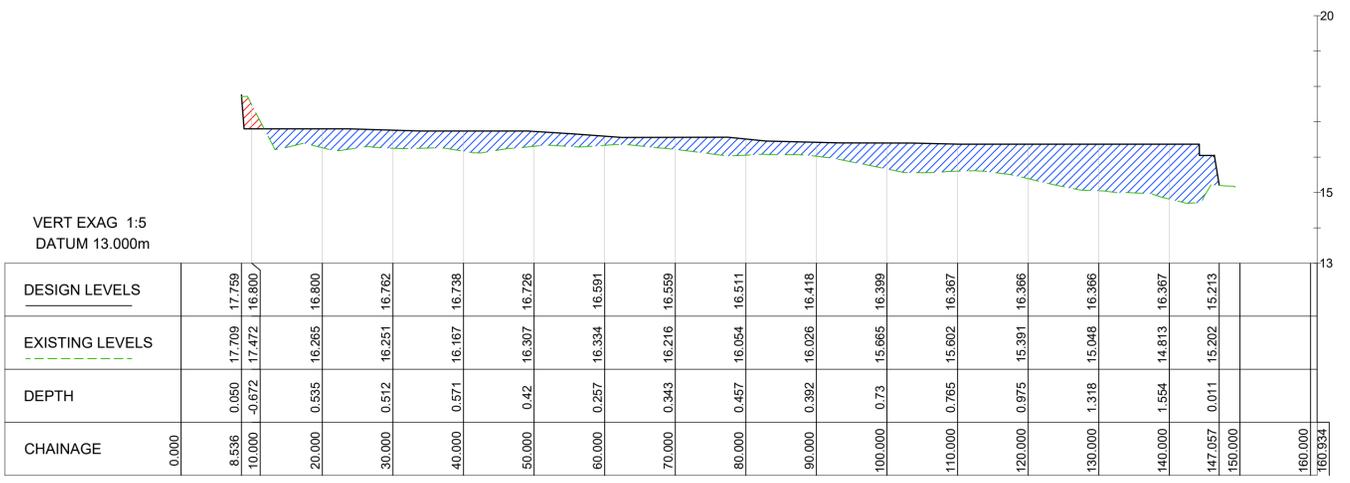
PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
BULK EARTHWORKS PLAN

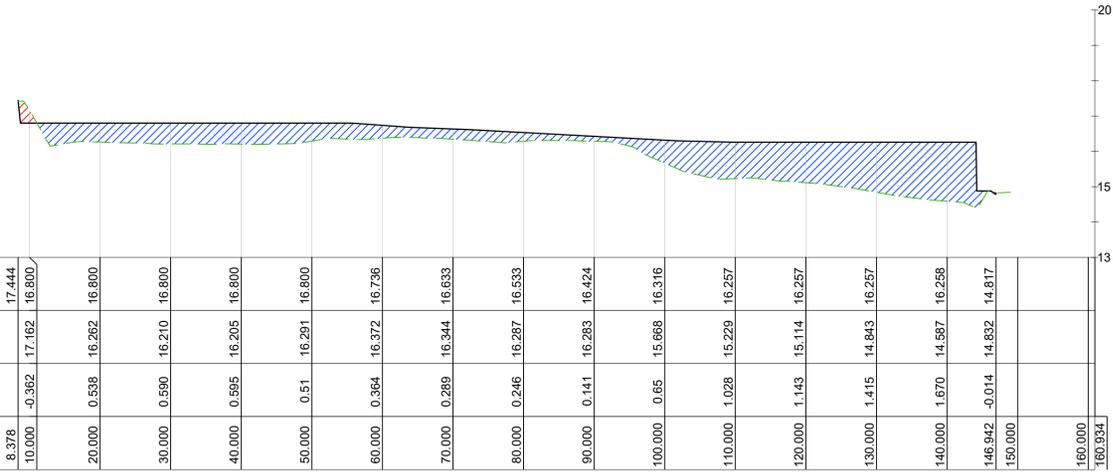
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FOR REF ISSUE			
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PROJECT NO. PS140232-CV-0201	SHEET	REV. 3	



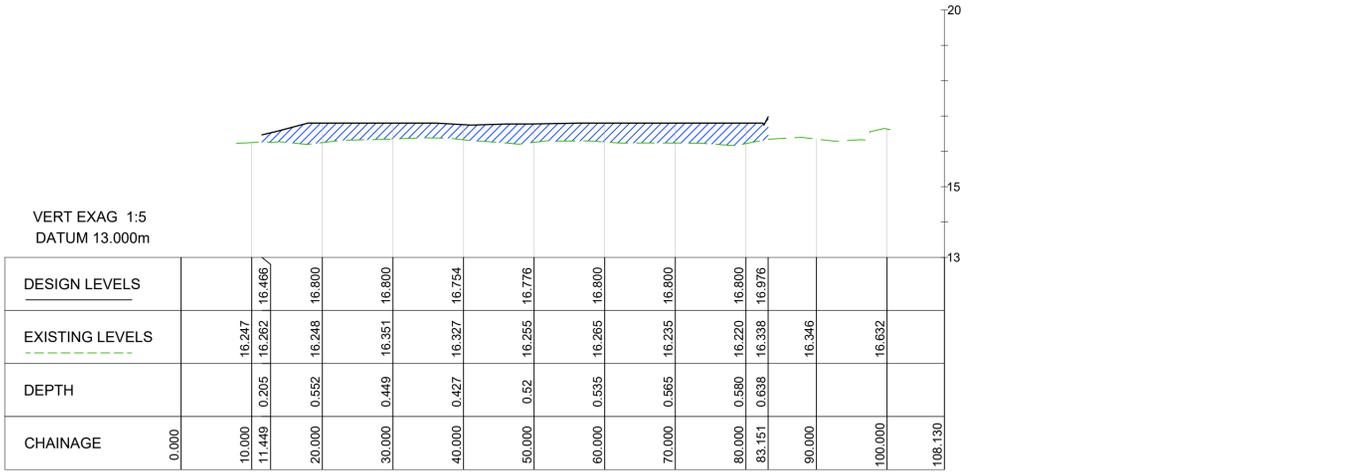
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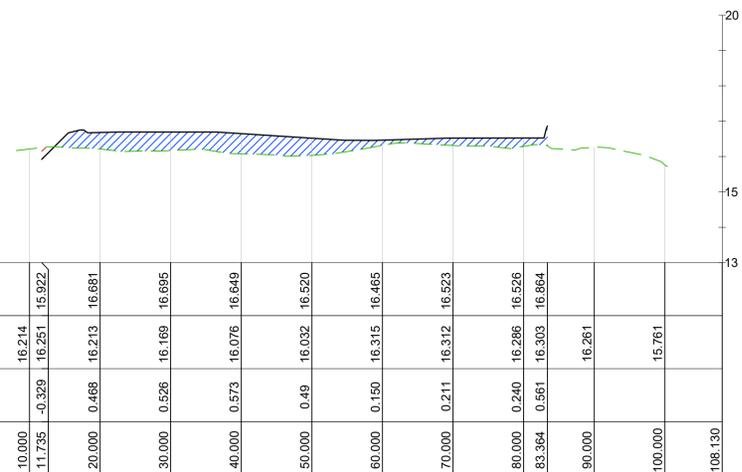
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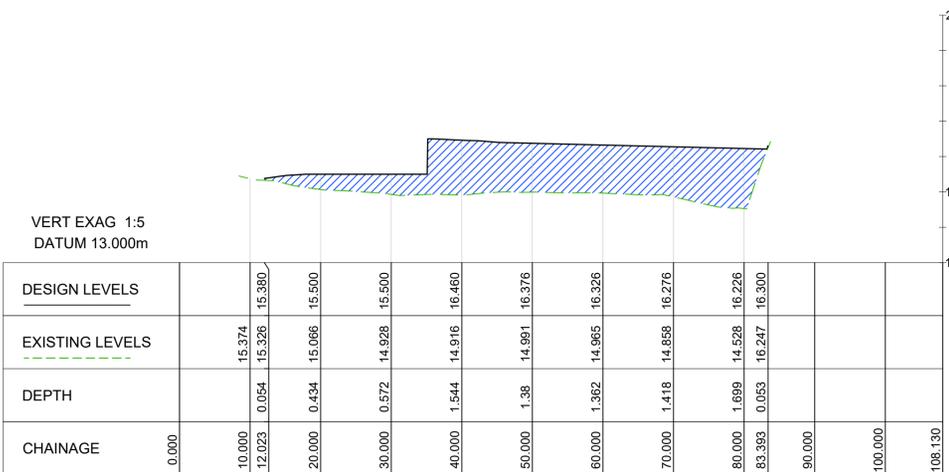
X3



Y1



Y2



Y3

SCALE 1:250
DO NOT PRINT IN FULL COLOUR

REFER TO DRAWING 0201 FOR BULK EXCAVATION NOTES AND LIMITATIONS

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK



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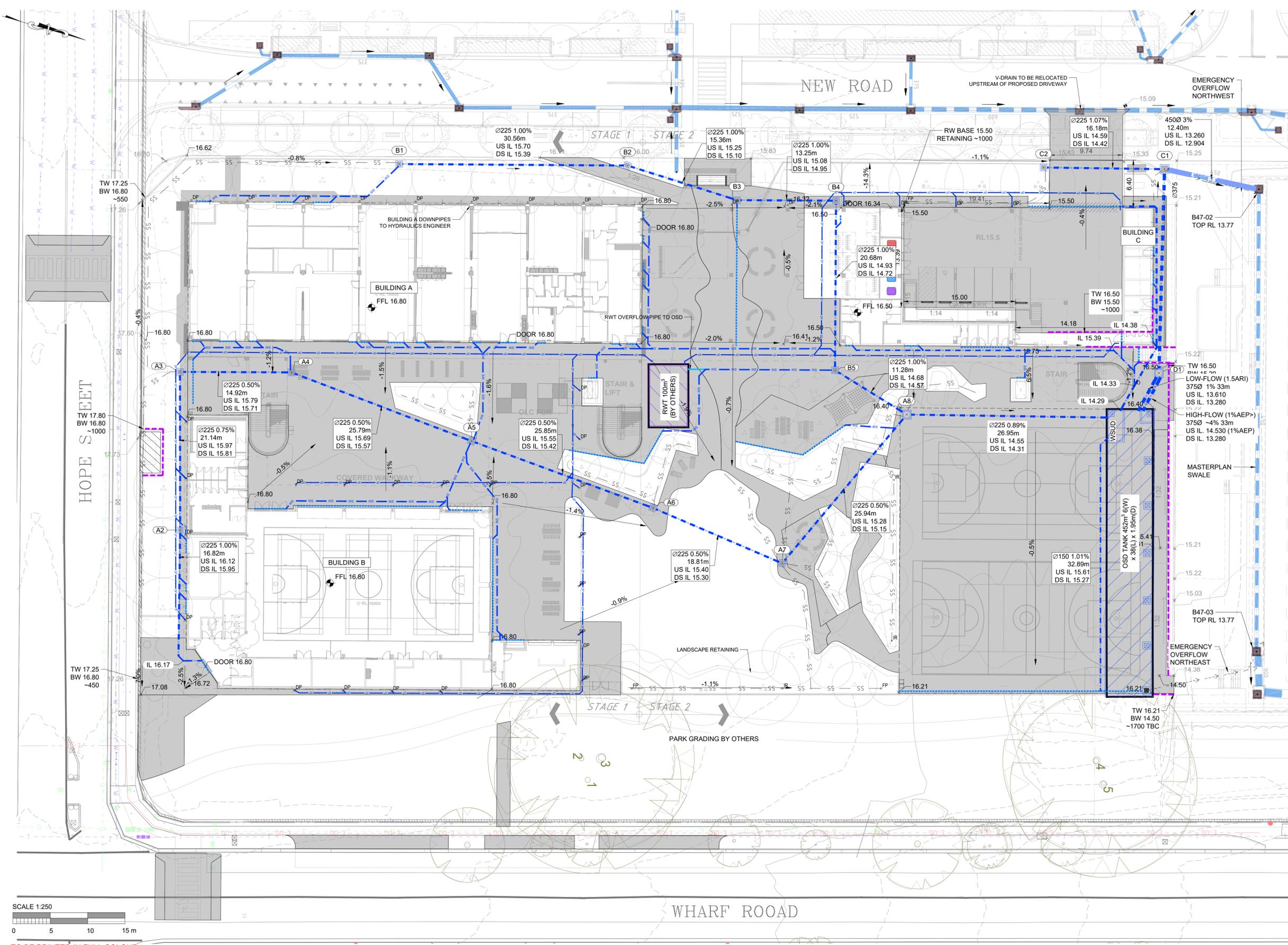


PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
BULK EARTHWORKS LONGSECTIONS SHEET 1

STATUS FOR REF ISSUE			
SCALE AT A1 1:250	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0251	SHEET	REV. 3	

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LEGEND

- EXISTING SITE BOUNDARY
- EXISTING CONTOURS (500 INT)
- FINISHED MAJOR CONTOUR (200 INT)
- FINISHED MINOR CONTOUR (200 INT)
- FINISHED SURFACE SPOT LEVEL
- FINISHED SURFACE FLOOR
- BUILDING FINISH FLOOR LEVEL
- CIVIL PAVEMENT EXTENTS. REFER TO PAVEMENT PLAN 452
- PROPOSED STORMWATER LINE (MIN 1% SLOPE)
- PIPE INTERNAL DIAMETRE (mm)
- PIPE LENGTH (CENTRES) AND GRADE
- INVERT LEVEL UPSTREAM
- INVERT LEVEL DOWNSTREAM
- ROOF DOWNPIPE
- EXISTING STORMWATER LINE
- MASTERPLAN STORMWATER (BY OTHERS)
- PROPOSED SURFACE INLET GRATED PIT
- PROPOSED SEALED JUNCTION PIT
- PROPOSED GRATED DRAIN (HEEL SAFE)
- SUBSOIL DRAINAGE LINE (100 DIA)
- FLUSHING POINT AND INTERMEDIATE RISER
- PROPOSED ROOF DOWNPIPES TO BE CONNECTED TO RWT BY OTHERS
- PROPOSED RAINWATER OVERFLOW OUTLET PIPE
- PROPOSED OSD TANK & ACCESS LID
- PROPOSED WATER QUALITY CHAMBER
- RAINWATER TANK BY OTHERS
- PROPOSED RETAINING WALL
- TOP OF WALL LEVEL
- BOTTOM OF WALL LEVEL
- RETENTION HEIGHT

NOTES:

- SIZING OF DRAINAGE NETWORK AND RETAINING STRUCTURES IS PRELIMINARY ONLY, AND SHOWN FOR COORDINATION. PENDING FURTHER COORDINATION WITH DISCIPLINES.
- GRADING IS PRELIMINARY ONLY, BASED ON ONGOING COORDINATION WITH ARCHITECTS, PENDING FURTHER BCA COMPLIANCE REVIEW/APPROVAL AND FURTHER COORDINATION WITH DISCIPLINES.
- THE EXISTING CONTOURS SHOWN ARE A COMBINATION OF: SURVEY (SEP-2024) AND MASTERPLAN TIN SURFACE.
- DOWNPIPE, RAINWATER TANK AND ROOF DRAINAGE SIZING BY HYDRAULICS ENGINEERS.
- REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR PLANTING RETAINING STRUCTURES.

SCALE 1:250
0 5 10 15 m
TO BE PRINTED IN FULL COLOUR

6	17/01/25	ISSUE FOR REF	BJ	JF
5	29/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
4	25/10/24	ISSUE FOR COORDINATION	JF	JF
3	14/10/24	ISSUE FOR INFORMATION	BJ	JF
2	04/10/24	ISSUE FOR REVIEW	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF
REV	DATE	DESCRIPTION	DRN	CHK

REV	DATE	DESCRIPTION	DRN	CHK

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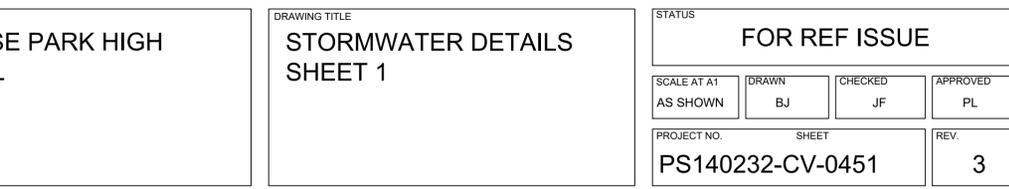
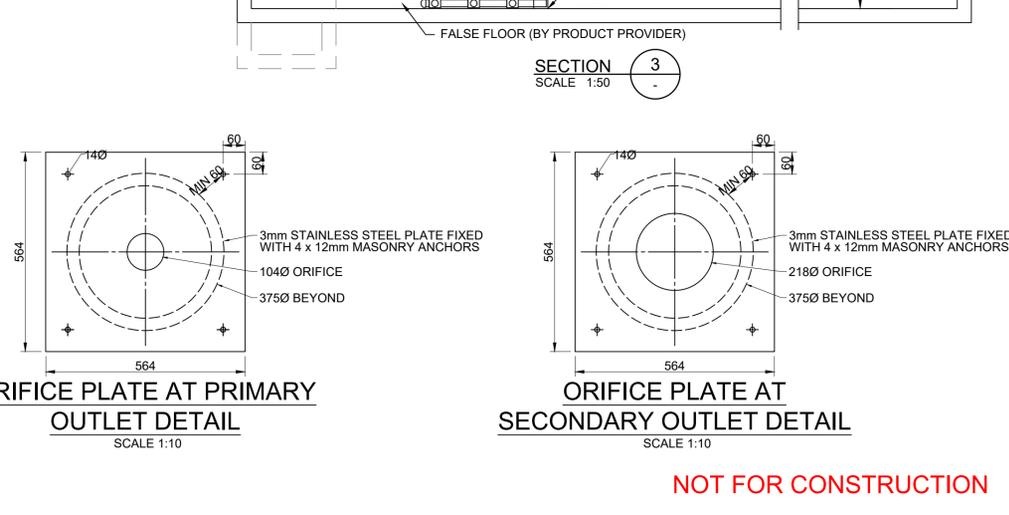
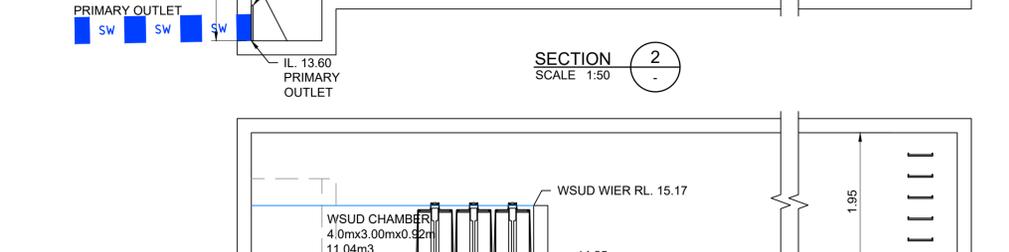
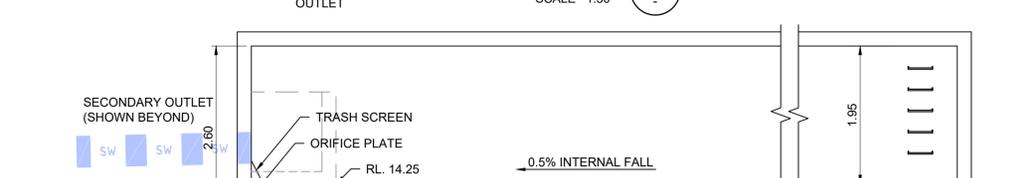
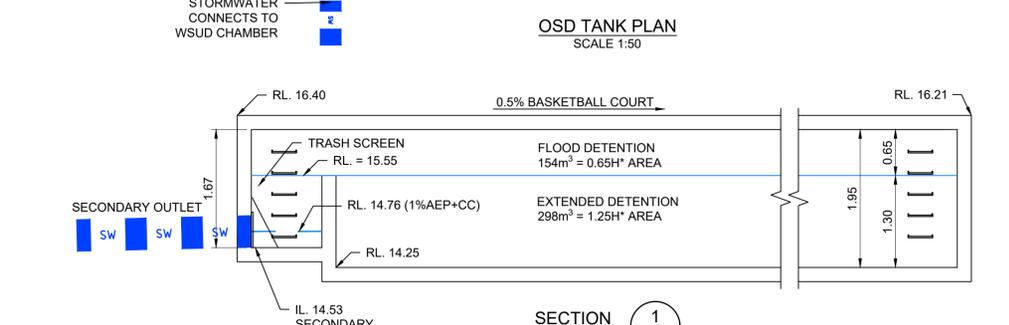
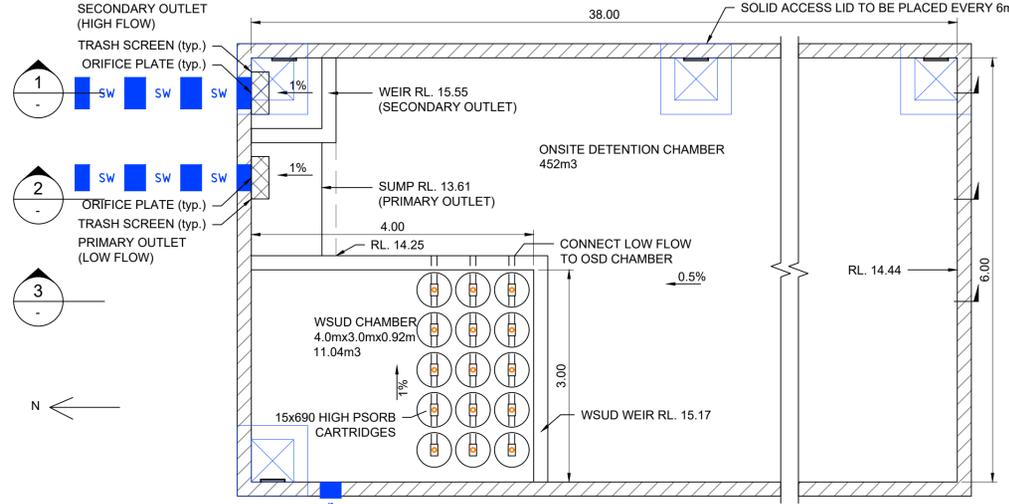
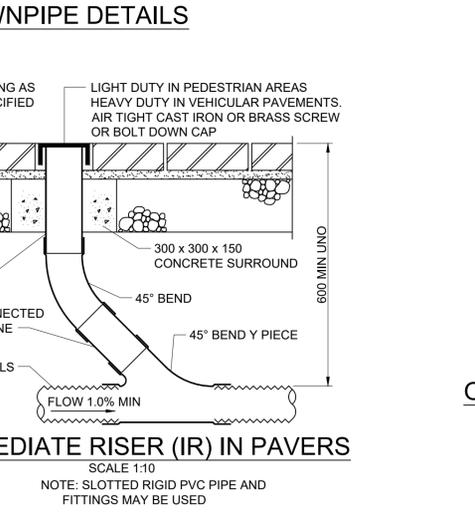
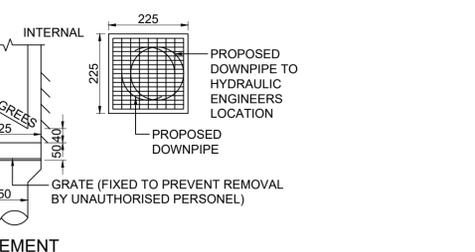
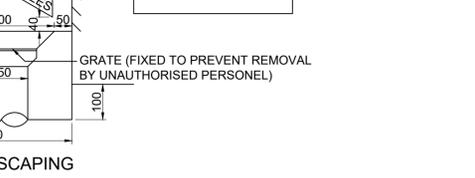
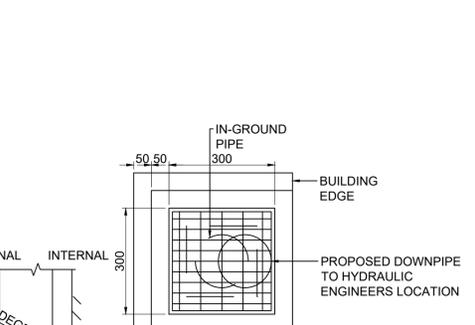
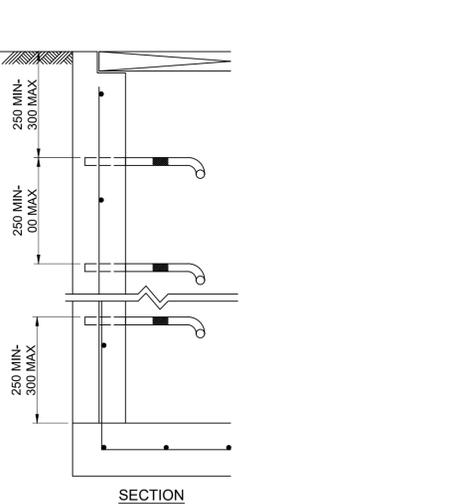
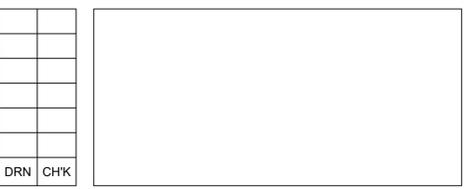
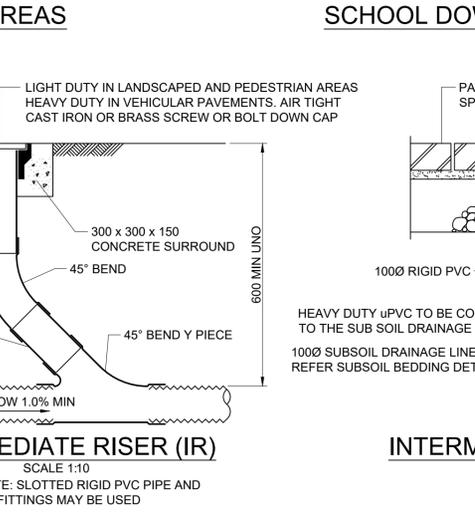
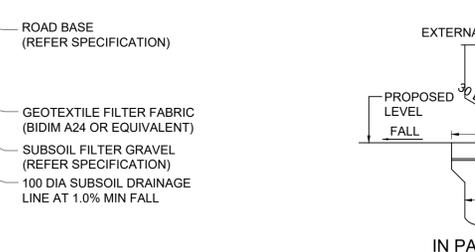
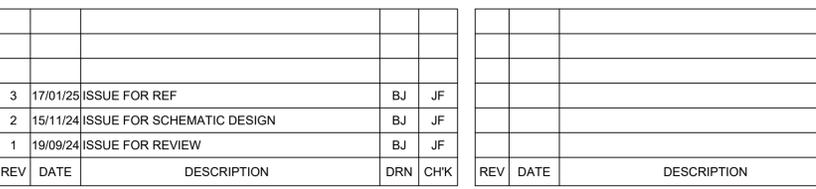
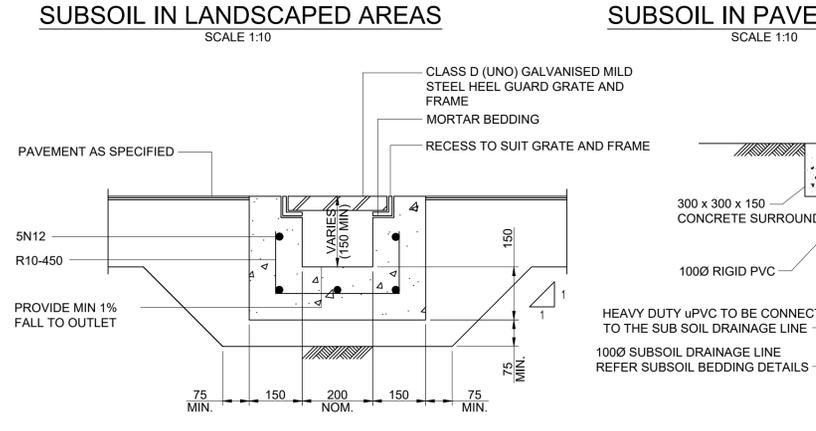
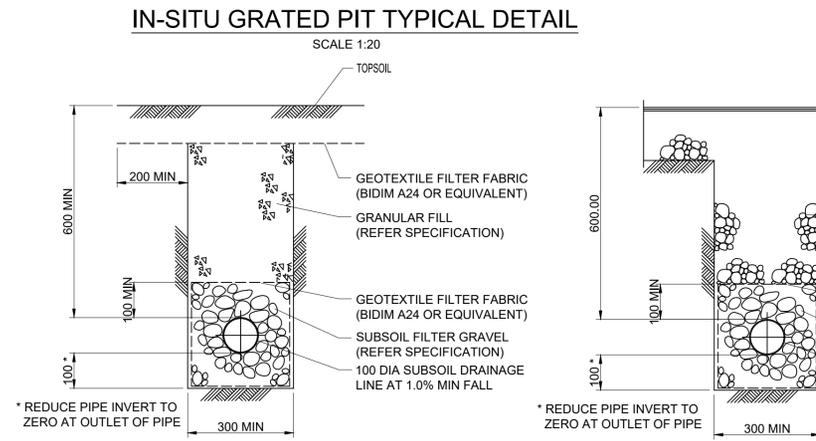
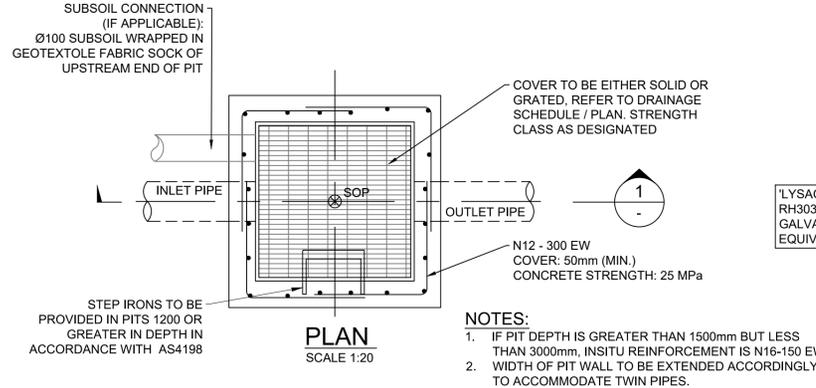
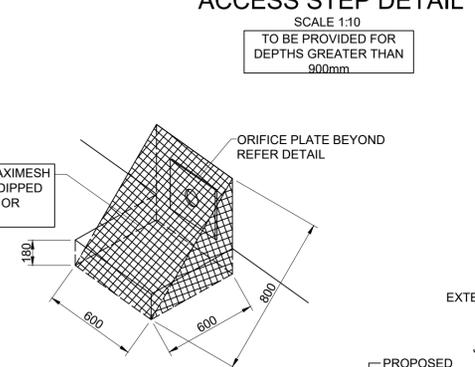
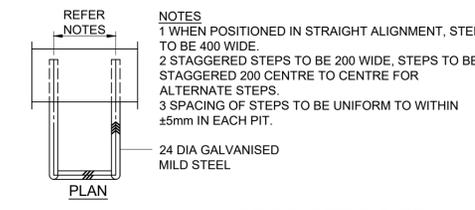
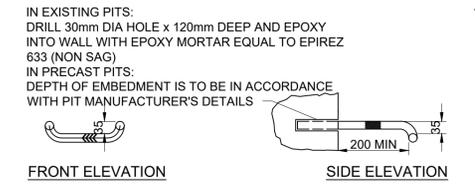
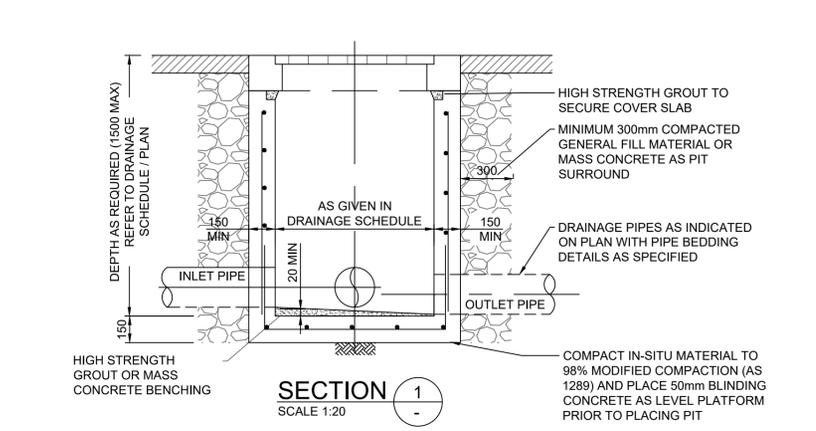


PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
SITWORKS PLAN SHEET 1

STATUS FOR REF ISSUE			
SCALE AT A1 1:250	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0401	SHEET	REV. 6	

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REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	19/09/24	ISSUE FOR REVIEW	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK

REV	DATE	DESCRIPTION	DRN	CHK

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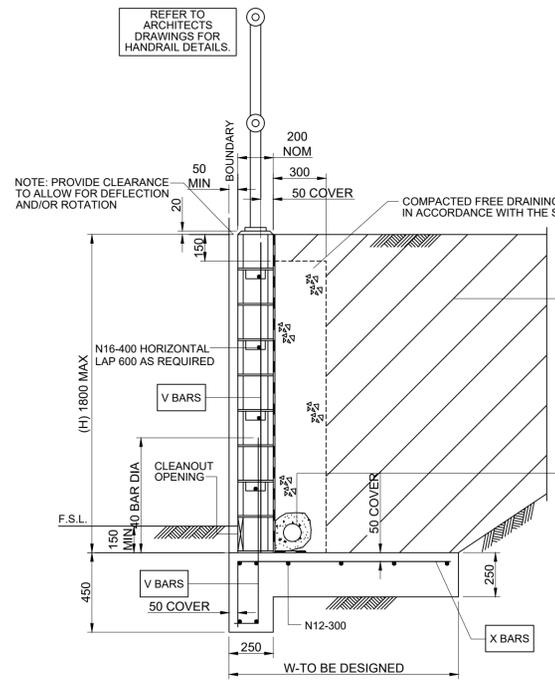
PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
STORMWATER DETAILS SHEET 1

STATUS
FOR REF ISSUE

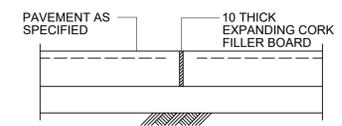
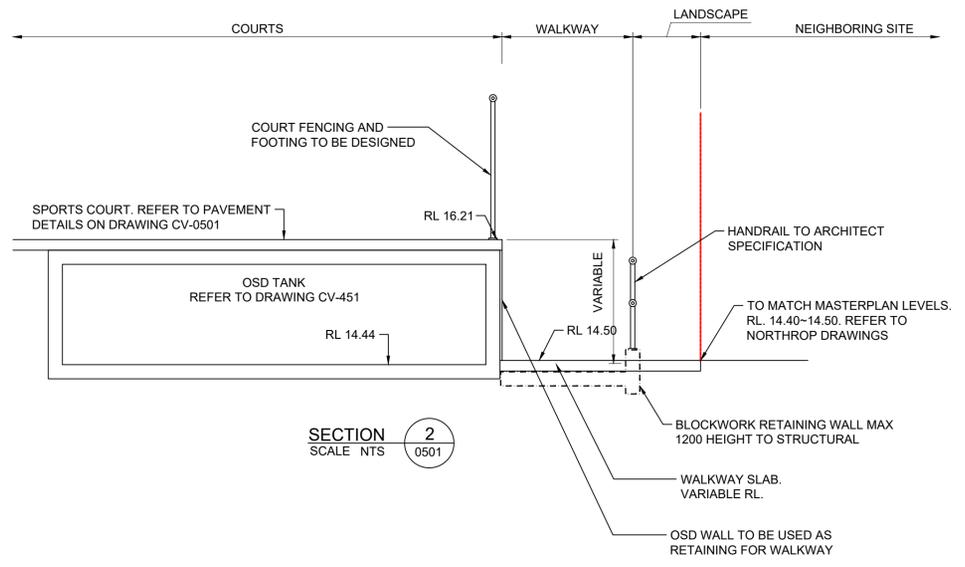
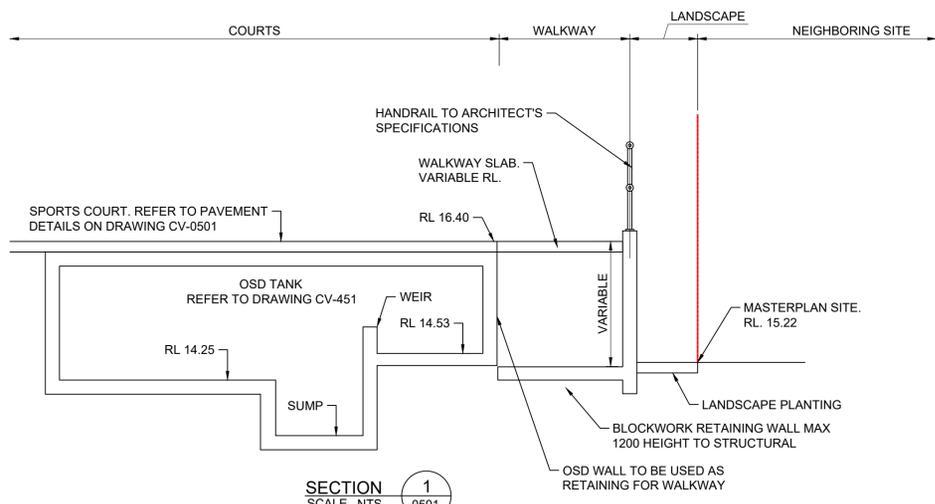
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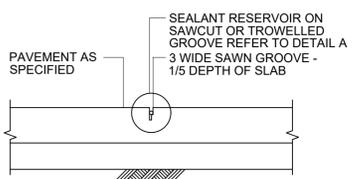


RETAINING WALL (RW1)
SCALE 1:20

NOTE: RETAINING WALL TYPE SHOWN INDICATIVELY. TO BE FURTHER COORDINATED WITH ARCHITECTS AND STRUCTURAL ENGINEERS

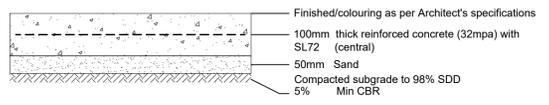
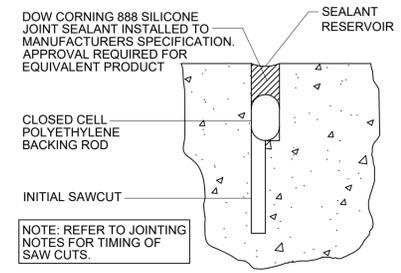


EXPANSION JOINT (EJ)
SCALE 1:20

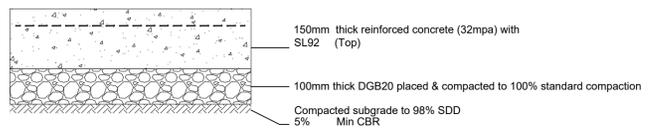


SAW CUT JOINT DETAIL PEDESTRIAN PAVEMENT (PSJ)
SCALE 1:20

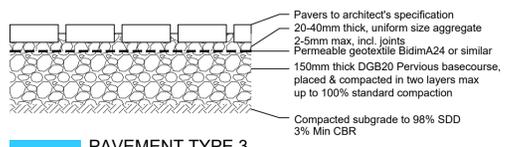
NOTE: REFER TO JOINTING NOTES FOR TIMING OF SAW CUTS.



PAVEMENT TYPE 1
SCALE 1:10
PEDESTRIAN PAVEMENT - REINFORCED CONCRETE



PAVEMENT TYPE 2
SCALE 1:10
MEDIUM DUTY CONCRETE PAVEMENT



PAVEMENT TYPE 3
SCALE 1:10
PEDESTRIAN PERVIOUS PAVEMENT WITH PAVERS

PAVEMENT TYPE 4
SCALE 1:10
TREE SURROUND PERVIOUS GRAVEL, BY PRODUCT MANUFACTURER

PAVEMENT TYPE 5
SCALE 1:10
ASPHALT VEHICULAR PAVEMENT REINSTATEMENT AS PER P.C.C. STANDARD DRAWINGS

TO BE PRINTED IN FULL COLOUR

NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	29/11/24	REISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK

REV	DATE	DESCRIPTION	DRN	CHK

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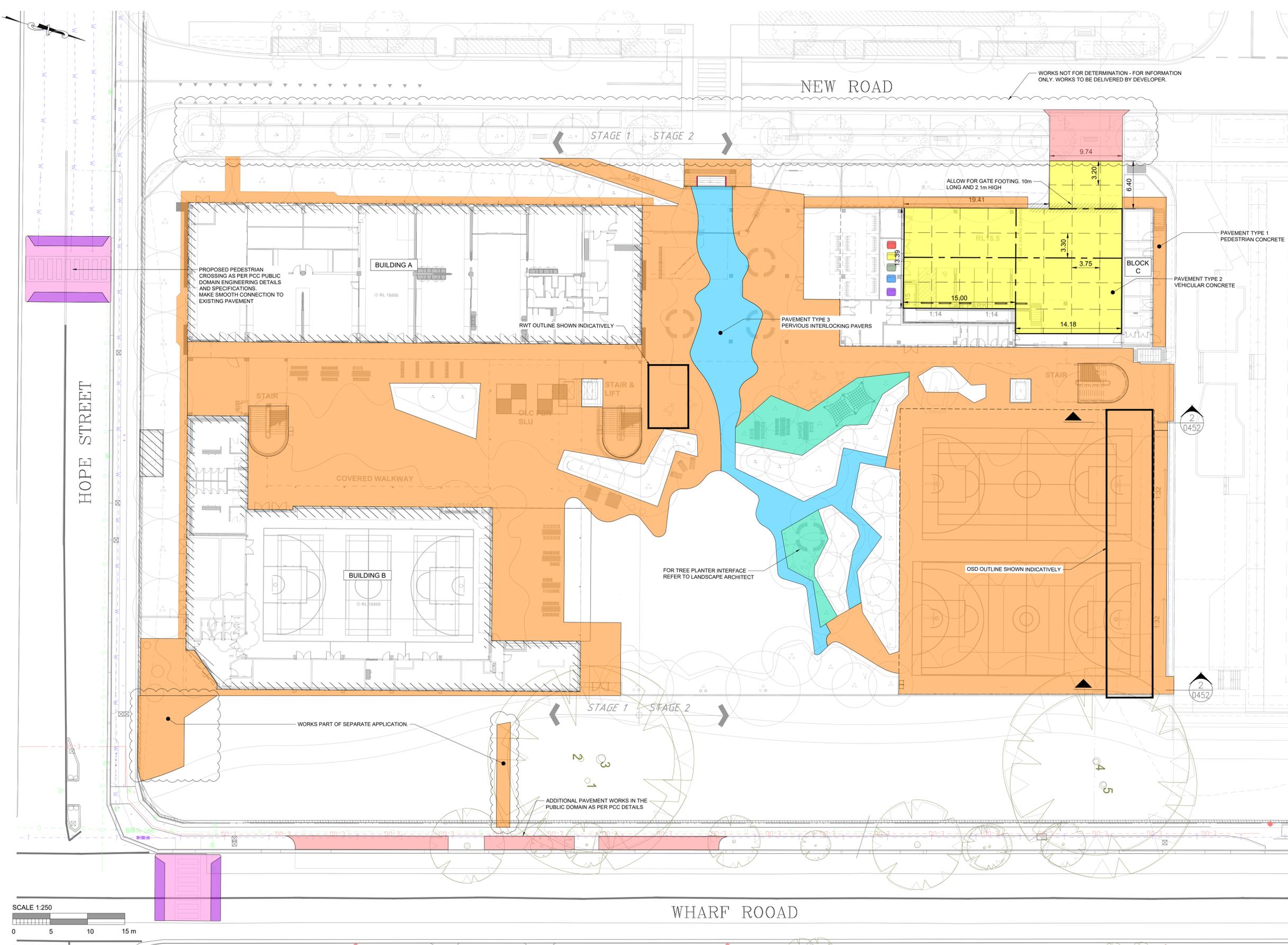


PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
DETAILS SHEET 2

STATUS			
FOR REF ISSUE			
SCALE AT A1 AS SHOWN	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0452	SHEET	REV. 3	

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- LEGEND**
- P1 PAVEMENT TYPE 1: PEDESTRIAN CONCRETE
 - P2 PAVEMENT TYPE 2: VEHICULAR CONCRETE
 - P3 PAVEMENT TYPE 3: PEDESTRIAN PAVERS
 - P4 PAVEMENT TYPE 4: PERVIOUS GRAVEL
 - P5 PAVEMENT TYPE 5: VEHICULAR ASPHALT
 - P6 PAVEMENT TYPE 6: PUBLIC DOMAIN PAVEMENT AS PER PCC GUIDELINES AND SPECIFICATIONS.

- WHEELSTOP
- GUARD RAIL
- DEJ DOWELLED EXPANSION JOINT
- SJ SAWN JOINT
- KJ KEYED CONSTRUCTION JOINT
- WPJ WEAKENED PLANE JOINT
- EJ EXPANSION JOINT
- TKJ TIED KEYED JOINT

- Notes:**
1. For pavement layers refer to pavement details sheet.
 2. Asphaltic concrete shall conform to AS2150 and the specification.
 3. Pavement joints to be full coordinated with architects. Pavement/building interface to be coordinated with structure and architects.
 4. Refer to general notes sheet 0005 for typical pedestrian pavement joint arrangement.

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SCALE 1:250
0 5 10 15 m

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REV	DATE	DESCRIPTION	DRN	CHK
3	17/01/25	ISSUE FOR REF	BJ	JF
2	29/11/24	REISSUE FOR SCHEMATIC DESIGN	BJ	JF
1	15/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK

REV	DATE	DESCRIPTION	DRN	CHK

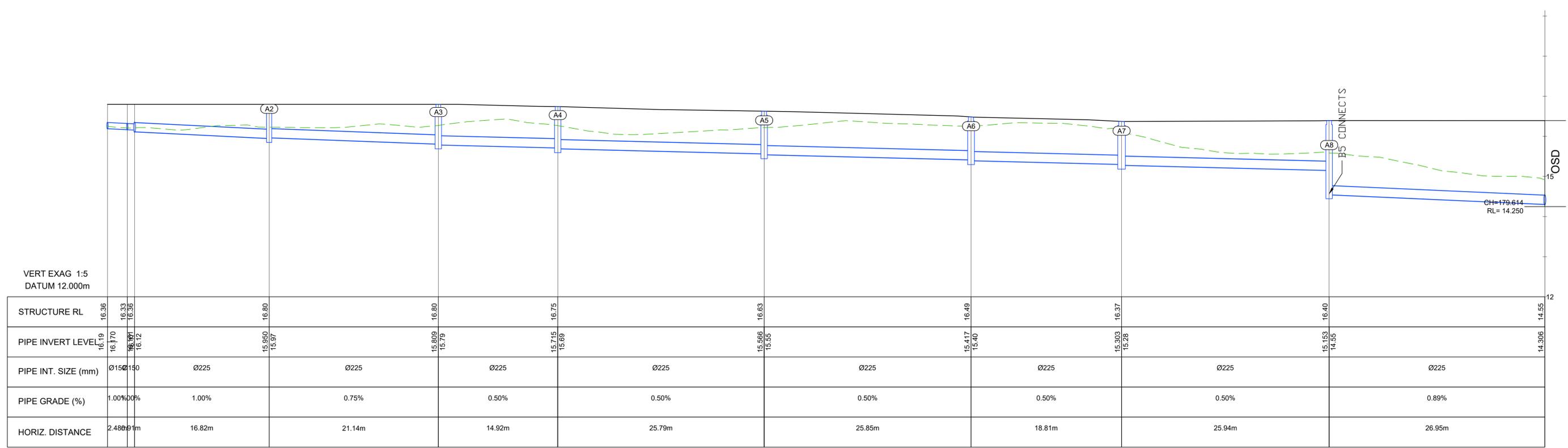
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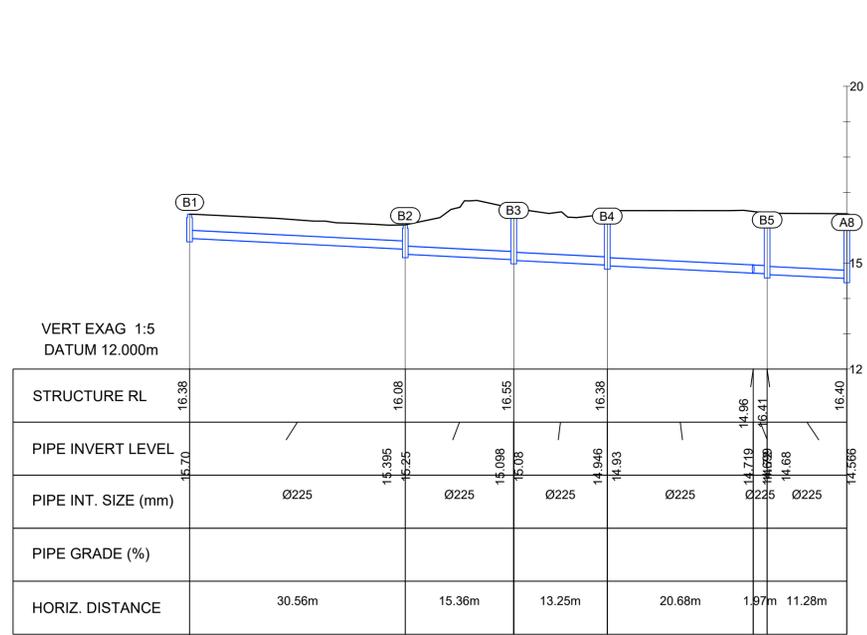
PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
PAVEMENT PLAN SHEET 1

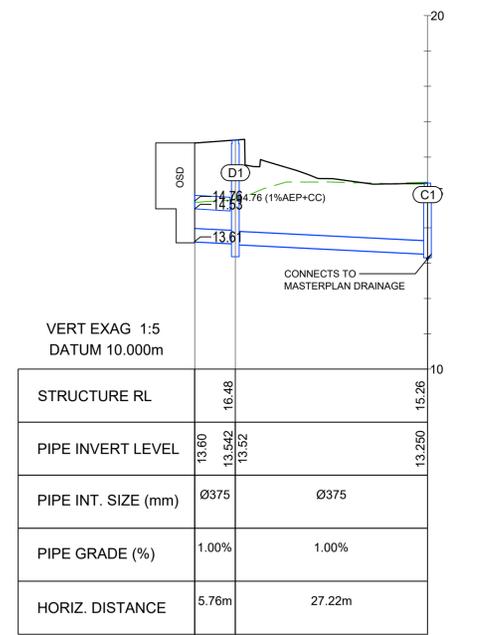
STATUS			
FOR REF ISSUE			
SCALE AT A1 1:250	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0501	SHEET	REV. 3	



DRAINAGE LONGSECTION A



DRAINAGE LONGSECTION B



DRAINAGE LONGSECTION OSD-C1

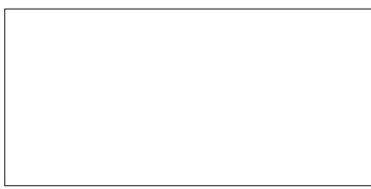
THE DRAINAGE LONGSECTIONS ARE FOR CHECK ONLY, TO ENSURE MIN. COVER AND MIN GRADES. NOT FOR CONSTRUCTION, SUBJECT TO CHANGE.



NOT FOR CONSTRUCTION

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2	17/01/25	ISSUE FOR REF	BJ	JF
1	29/11/24	ISSUE FOR SCHEMATIC DESIGN	BJ	JF

REV	DATE	DESCRIPTION	DRN	CHK



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PROJECT
MELROSE PARK HIGH SCHOOL

DRAWING TITLE
DRAINAGE LONGSECTIONS SHEET 1

STATUS			
FOR REF ISSUE			
SCALE AT A1 1:250	DRAWN BJ	CHECKED JF	APPROVED PL
PROJECT NO. PS140232-CV-0601	SHEET	REV. 2	