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Civil Design Documentation
Proposed Olympic Park
Grandstand Redevelopment
OYLMPIC PARK
3 Wilkinson Avenue, Muswellbrook, NSW, 2333

SCHEDULE OF DRAWINGS

SHEET No.	DESCRIPTION
44840-C00	COVER SHEET AND DRAWING SCHEDULE
44840-C01	EXISTING SITE PLAN
44840-C03	PROPOSED OVERALL SITE PLAN
44840-C10	PROPOSED STORMWATER MANAGEMENT PLAN
44840-C11	PROPOSED ROOF DRAINAGE PLAN
44840-C12	STORMWATER SPECIFICATION
44840-C20	PROPOSED EARTHWORKS PLAN

LOCALITY PLAN
NOT TO REDUCTION RATIO

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Rev	Date	Description
A	17-03-2025	75% DESIGN ISSUE

Project
OLYMPIC PARK GRANDSTAND REDEVELOPMENT
Site Address
3 WILKINSON AVENUE
MUSWELLBROOK NSW 2333
Client
MUSWELLBROOK SHIRE COUNCIL

Drawing Title
COVER SHEET & NOTES

Design	ST	Original Sheet Size	A1
Drawn	AR		
Check	DOS	Revision	A

Certification

Project No 44840
Drawing No C00

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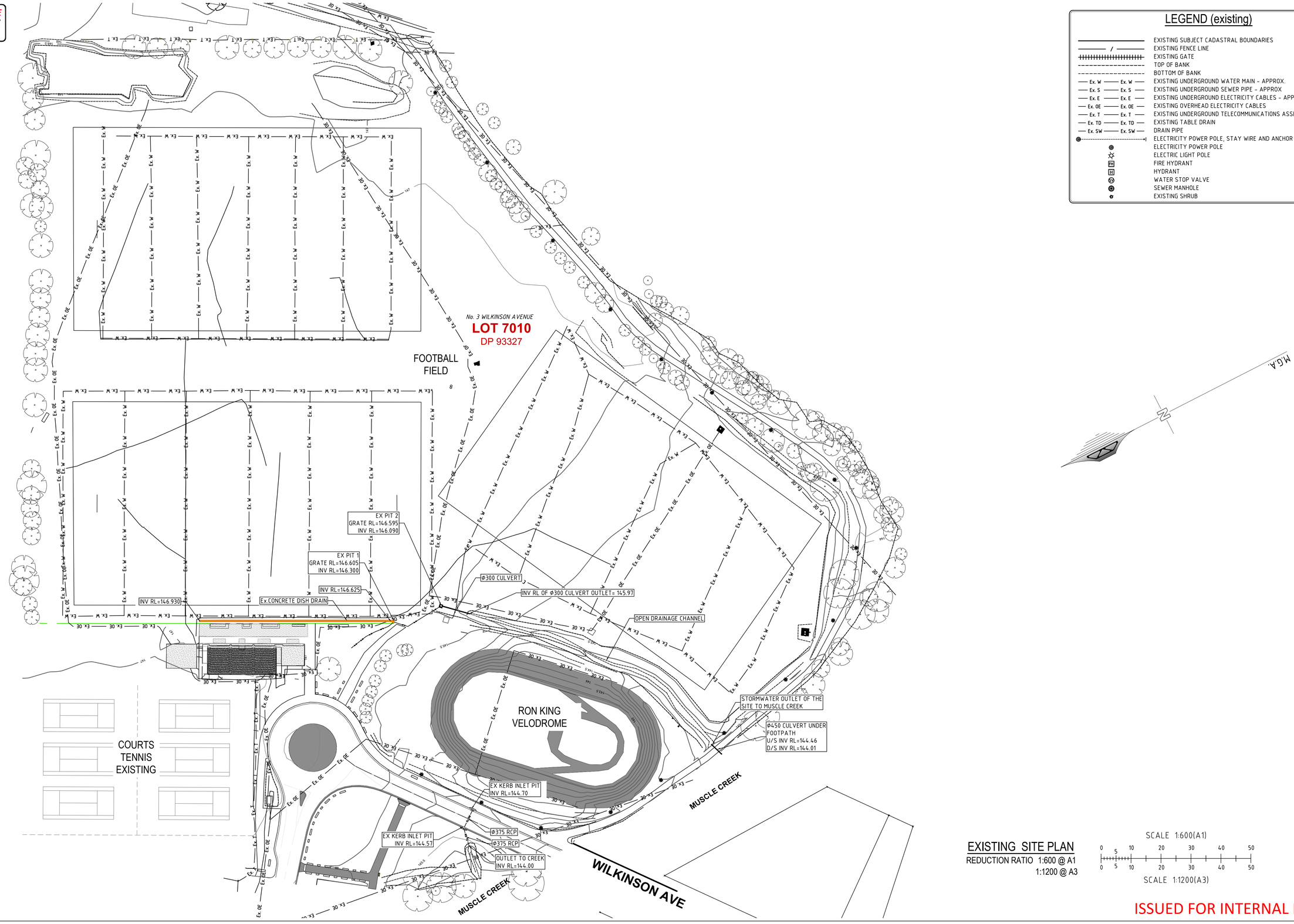
LEGEND (existing)

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING FENCE LINE
- EXISTING GATE
- TOP OF BANK
- BOTTOM OF BANK
- Ex. W — EXISTING UNDERGROUND WATER MAIN - APPROX.
- Ex. S — EXISTING UNDERGROUND SEWER PIPE - APPROX
- Ex. E — EXISTING UNDERGROUND ELECTRICITY CABLES - APPROX
- Ex. OE — EXISTING OVERHEAD ELECTRICITY CABLES
- Ex. T — EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS - APPROX.
- Ex. TD — EXISTING TABLE DRAIN
- Ex. SW — DRAIN PIPE
- ELECTRICITY POWER POLE, STAY WIRE AND ANCHOR
- ELECTRICITY POWER POLE
- ELECTRIC LIGHT POLE
- FIRE HYDRANT
- HYDRANT
- WATER STOP VALVE
- SEWER MANHOLE
- EXISTING SHRUB



EXISTING SITE PLAN

REDUCTION RATIO 1:600 @ A1
1:1200 @ A3

SCALE 1:600(A1)
0 5 10 20 30 40 50
SCALE 1:1200(A3)

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Client
MUSWELLBROOK SHIRE COUNCIL

Drawing Title
EXISTING SITE PLAN

Design	ST	Original Sheet Size	A1
Drawn	AR		
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Certification

Project No 44840
Drawing No C01

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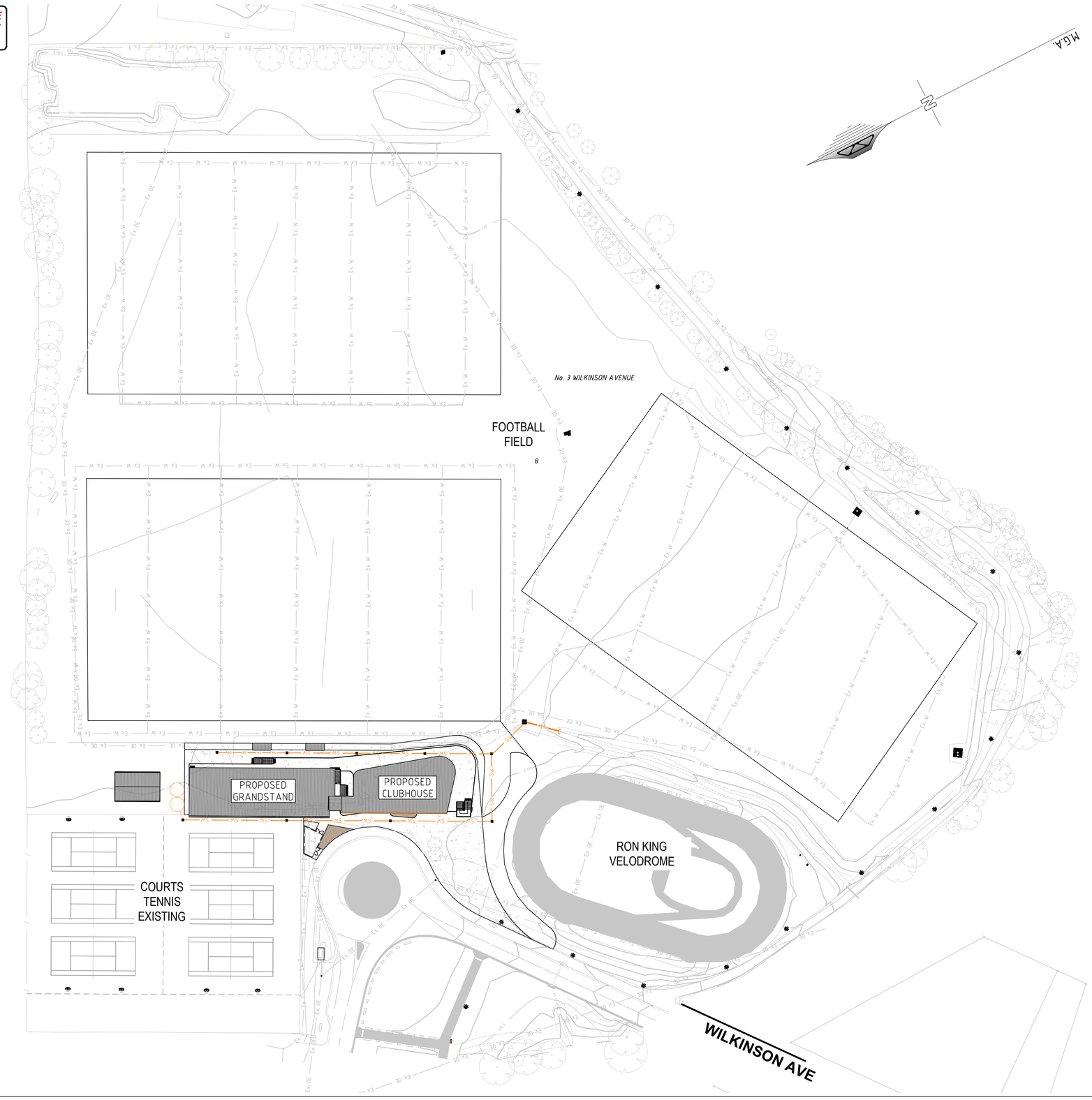

LEGEND (proposed)

K&G	PROPOSED BARRIER KERB AND GUTTER
KO	PROPOSED KERB ONLY
	EXTENT OF PROPOSED AC CARPARK
	EXTENT OF PROPOSED CONCRETE PATH/CROSS OVER
	EXTENT OF PROPOSED LANDSCAPED AREA
TD TD TD	PROPOSED EARTH SWALE (600x100)
SW SW SW	PROPOSED UNDERGROUND STORMWATER PIPE
CHRG CHRG	PROPOSED CHARGED ROOF DRAINAGE PIPE
P1	PROPOSED GRATED STORMWATER PIT (WITH SPELL STORMSACK IN HARDSTAND AREA)
	PROPOSED SURFACE FALL DIRECTION
150 uPVC 1.0% $Q_{5\%}$ = 26.7 l/s	PROPOSED PIPE SIZE & MATERIAL GRADIENT 5% AEP FLOW
	PROPOSED SURFACE FALL DIRECTION
EX 481.00 481.00	PROPOSED/EXISTING GROUND LEVEL
FALL	ROOF - DIRECTION OF FALL

LEGEND (existing)

	EXISTING SUBJECT CADASTRAL BOUNDARIES
/	EXISTING FENCE LINE
	EXISTING GATE
	TOP OF BANK
	BOTTOM OF BANK
Ex. W Ex. W	EXISTING UNDERGROUND WATER MAIN - APPROX.
Ex. S Ex. S	EXISTING UNDERGROUND SEWER PIPE - APPROX
Ex. E Ex. E	EXISTING UNDERGROUND ELECTRICITY CABLES - APPROX
Ex. OE Ex. OE	EXISTING OVERHEAD ELECTRICITY CABLES
Ex. T Ex. T	EXISTING UNDERGROUND TELECOMMUNICATIONS ASSETS - APPROX.
Ex. TD Ex. TD	EXISTING TABLE DRAIN
Ex. SW Ex. SW	DRAIN PIPE
	ELECTRICITY POWER POLE, STAY WIRE AND ANCHOR
	ELECTRICITY POWER POLE
	ELECTRIC LIGHT POLE
FH	FIRE HYDRANT
H	HYDRANT
WS	WATER STOP VALVE
S	SEWER MANHOLE
	EXISTING SHRUB

PROPOSED SITE PLAN

REDUCTION RATIO 1:600 @ A1
1:1200 @ A3

SCALE 1:600(A1)
0 5 10 20 30 40 50
0 5 10 20 30 40 50
SCALE 1:1200(A3)

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MUSWELLBROOK NSW 2333
Client
MUSWELLBROOK SHIRE COUNCIL

Drawing Title
PROPOSED SITE PLAN

Design	ST	Original Sheet Size	A1
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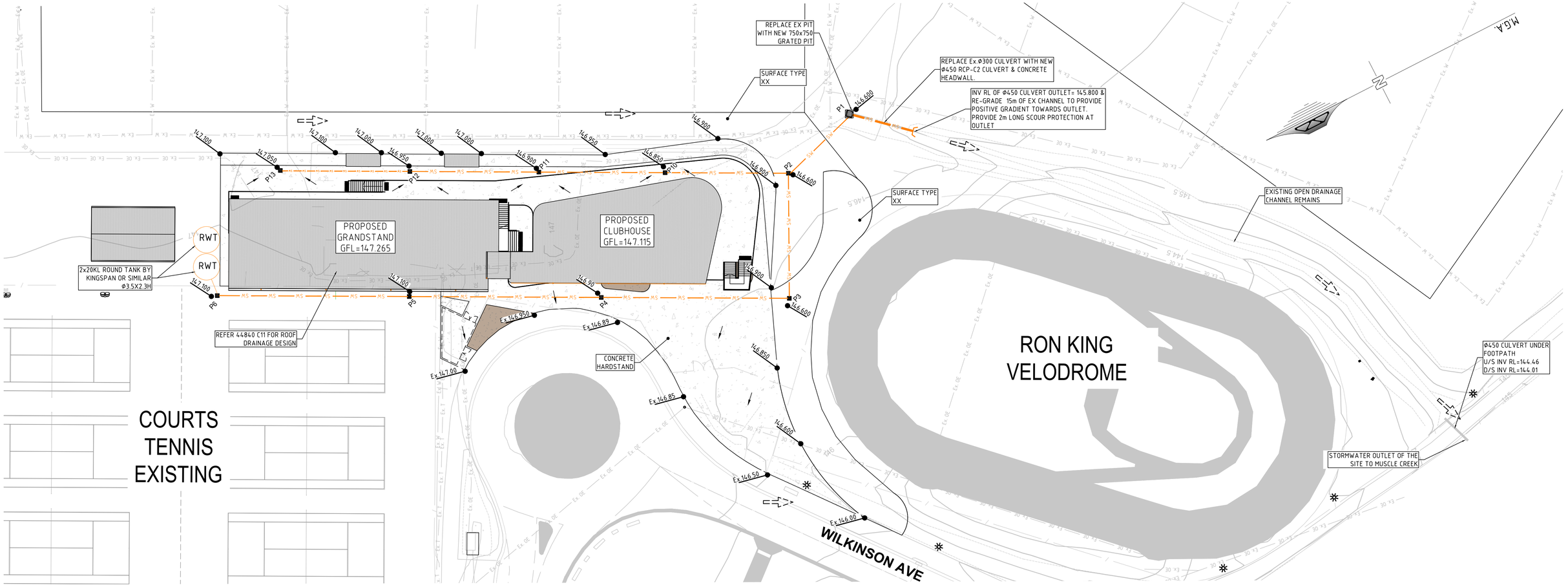
Check	DOS	Revision	A

Certification

Project No 44840
Drawing No C02



PROPOSED STORMWATER MANAGEMENT PLAN

REDUCTION RATIO 1:300 @ A1
1:600 @ A3

SCALE 1:300(A1)

0 5 10 15 20 25

0 5 10 15 20 25

SCALE 1:600(A3)

LEGEND (existing)

- EXISTING SUBJECT CADASTRAL BOUNDARIES
- EXISTING FENCE LINE
- EXISTING GATE
- TOP OF BANK
- BOTTOM OF BANK
- Ex. W — EXISTING UNDERGROUND WATER MAIN - APPROX.
- Ex. S — EXISTING UNDERGROUND SEWER PIPE - APPROX
- Ex. E — EXISTING UNDERGROUND ELECTRICITY CABLES - APPROX
- Ex. OE — EXISTING OVERHEAD ELECTRICITY CABLES
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- Ex. TD — EXISTING TABLE DRAIN
- Ex. SW — DRAIN PIPE
- ELECTRICITY POWER POLE, STAY WIRE AND ANCHOR
- ELECTRICITY POWER POLE
- ELECTRIC LIGHT POLE
- FH — FIRE HYDRANT
- H — HYDRANT
- WATER STOP VALVE
- SEWER MANHOLE
- EXISTING SHRUB

LEGEND (proposed)

- K&G — PROPOSED BARRIER KERB AND GUTTER
- KO — PROPOSED KERB ONLY
- EXTENT OF PROPOSED AC CARPARK
- EXTENT OF PROPOSED CONCRETE PATH/CROSS OVER
- EXTENT OF PROPOSED LANDSCAPED AREA
- SW — PROPOSED UNDERGROUND STORMWATER PIPE
- CHRG — PROPOSED CHARGED ROOF DRAINAGE PIPE
- PROPOSED GRATED STORMWATER PIT
- PROPOSED SURFACE FALL DIRECTION
- 150 uPVC 1.0% Q_{DK} = 26.7 l/s — PROPOSED PIPE SIZE & MATERIAL GRADIENT 5% AEP FLOW
- PROPOSED SURFACE FALL DIRECTION
- Ex.146.00 / 146.00 — PROPOSED/EXISTING GROUND LEVEL
- FALL — ROOF - DIRECTION OF FALL

STORMWATER PIT SCHEDULE

PIT No.	TOP R.L.	DEPTH (mm)	IL INLET	IL OUTLET	LxB	LID TYPE
P1	X	X	145.850	145.850	750x750	HD GRATED (GALV)
P2	X	X	145.920	145.920	600x600	HD GRATED (GALV)
P3	X	X	146.020	146.020	600x600	HD GRATED (GALV)
P4	X	X	146.170	146.170	600x600	HD GRATED (GALV)
P5	X	X	146.320	146.320	600x600	HD GRATED (GALV)
P6	X	X	-	146.470	600x600	HD GRATED (GALV)
P10	X	X	146.020	146.020	600x600	HD GRATED (GALV)
P11	X	X	146.120	146.120	600x600	HD GRATED (GALV)
P12	X	X	146.220	146.220	600x600	HD GRATED (GALV)
P13	X	X	-	146.320	600x600	HD GRATED (GALV)

NOTE: ALL TOP RLs ARE INDICATIVE ONLY. LID RL TO MATCH FINISHED SURFACE LEVELS.

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OLYMPIC PARK GRANDSTAND REDEVELOPMENT
Site Address
3 WILKINSON AVENUE
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Client
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Drawing Title
PROPOSED STORMWATER MANAGEMENT PLAN

Design ST
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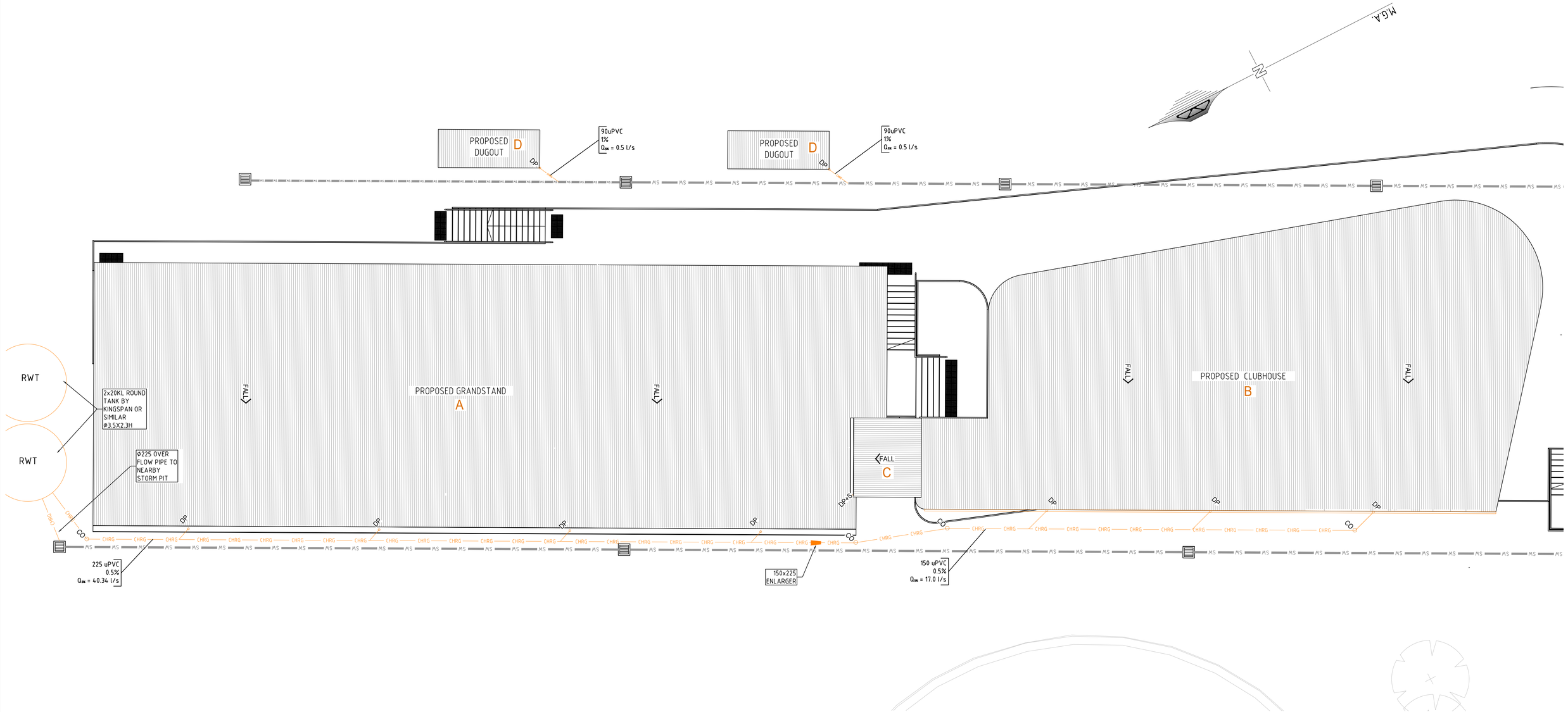
Check DOS

Original Sheet Size A1
Revision A

Certification

Project No 44840
Drawing No C10



DESIGN NOTE:
ARI = 5% AEP STORM
DURATION = 5 MIN.
RAINFALL INTENSITY =144mm/hr

CATCHMENT, GUTTERS, & DOWNPIPES

LOCATION	AREA (m^2)	FLOW l/s	GUTTER (m^2)	DP's	MAX m^2/DP
ROOF - A+C	560	23.38	18,400	4xØ150	156
ROOF - B	407	17.00	18,400	3xØ150	156
ROOF - C	15	0.63	6,600	1xØ90	44
ROOF - D	11	0.46	6,600	1xØ90	44

STORMWATER ANALYSIS

1. DESIGN CALCULATIONS AS PER AS3500.3-2021
2. EAVES GUTTERS DESIGNED FOR 5% AEP STORM, 5 MINUTE INTENSITY. GUTTERS TO BE INSTALLED AT FALL 1:500 OR STEEPER. EAVE GUTTERS: GUTTER TO HAVE EQUIVALENT CROSS SECTIONAL AREA AS SPECIFIED

ROOF DRAINAGE PLAN

REDUCTION RATIO 1:100 @ A1
1:200 @ A3

SCALE 1:250(A1)
0 5 10 15 20 25
SCALE 1:500(A3)

LEGEND (proposed)

- EXTENT OF PROPOSED ROOF
- PROPOSED GRATED STORMWATER PIT
- PROPOSED CHARGED ROOF DRAINAGE PIPE
- PROPOSED UNDERGROUND STORMWATER PIPE
- ROOF - CATCHMENT IDENTIFIER
- ROOF - DIRECTION OF FALL
- PROPOSED DOWNPIPE
- PROPOSED DOWNPIPE WITH SPREADER
- PROPOSED CLEAR OUT
- PROPOSED PIPE SIZE & MATERIAL GRADIENT 5% AEP FLOW

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3 WILKINSON AVENUE
MUSWELLBROOK NSW 2333
Client
MUSWELLBROOK SHIRE COUNCIL

Drawing Title
ROOF DRAINAGE PLAN

Design	ST	Original Sheet Size	A1
Drawn	AR		
Check	DOS	Revision	A

Certification

Project No 44840
Drawing No C11

SITEWORKS NOTES

1. ORIGIN OF LEVELS :- AHD
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3. ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
4. EXISTING SERVICES HAVE BEEN OBTAINED FROM SURFACE INSPECTION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
5. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A QUALIFIED SURVEYOR.
7. CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER TELECOM OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
8. ON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
9. MAKE SMOOTH TRANSITION TO EXISTING AREAS.
10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS. ALL WORK TO BE UNDERTAKEN WITH ADHERENCE TO THE REQUIREMENTS OF THE SOIL AND WATER MANAGEMENT PLAN.
11. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.

SURVEY NOTES

1. CONTOURS SHOWN DEPICT THE TOPOGRAPHY. EXCEPT AT SPOT LEVELS SHOWN THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT.
2. SERVICES SHOWN HEREON HAVE BEEN DETERMINED FROM VISUAL EVIDENCE AND ARE INDICATIVE ONLY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO ESTABLISH DETAILED LOCATION AND DEPTH.

PIPE TRENCH - FILL NOTES:

1. BEDDING SAND
   BEDDING SAND SHALL BE GRANULAR MATERIAL HAVING A LOW PERMEABILITY AND HIGH STABILITY WHEN SATURATED, CONFORMING TO THE GRADING LIMITS FOR BEDDING SAND AS INDICATED IN THE CONTRACT DOCUMENTS. BEDDING SAND SHALL BE COMPACTED TO A DENSITY INDEX OF 95% AS DETERMINED IN ACCORDANCE WITH AS1289.
2. APPROVED IMPORTED GRANULAR FILL
   ONLY IMPORTED GRANULAR FILL MATERIAL APPROVED BY THE SUPERINTENDENT SHALL BE USED. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK TO A DRY DENSITY OF 100% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL AND WITH A MOISTURE CONTENT NO MORE THAN 1% ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.
3. ORDINARY EXCAVATED FILL MATERIAL
   ORDINARY EXCAVATED FILL MATERIAL IS EXCAVATED TRENCH MATERIAL THAT IS FREE OF VEGETABLE MATTER, HUMUS, LARGE CLAY LUMPS AND ROCK BOULDERS. THIS FILL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK, TO A DENSITY OF 95% OF THE STANDARD MAXIMUM DRY DENSITY OF THE MATERIAL WITH A MOISTURE CONTENT OF NOT MORE THAN 1% ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH AS1289.

STORMWATER NOTES

1. ALL DOWNPIPE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS (U.N.O)
2. EQUIVALENT STRENGTH VCP OR FCP PIPES MAY BE USED.
3. MINIMUM GRADE TO STORMWATER LINES TO BE 0.5% MINIMUM (U.N.O)
4. CONTRACTORS TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
5. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
6. APPROVED PRECAST PITS MAY BE USED.
7. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50mm CONCRETE BED (75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES, BACKFILL THE TRENCH WITH THE SAND TO 200mm ABOVE THE PIPE .WHERE THE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150mm LAYERS TO 98% MAX. DRY DENSITY.
8. WHERE STORMWATER LINES PASS UNDER FLOOR SLABS, SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
9. ALL PIPES IN THE ROADWAY AND FOOTPATH AREAS, WHERE THE DEPTH OF PIPE IS LESS THAN 500mm FROM THE FINISHED SURFACE LEVEL ARE TO BE CONCRETE ENCASED.

STORMWATER ANALYSIS

DESIGN CALCULATIONS AS PER AS3500.3-2021

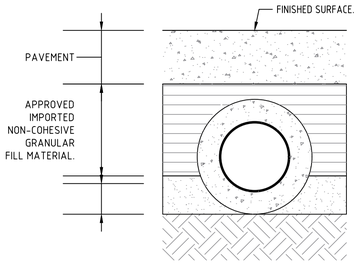
A) PRE-DEVELOPED:
- -TOTAL APPLICABLE CATCHMENT AREA (A) = 3,400m^2
- -RAINFALL INTENSITY (It) = 144 mm/hr (5min- 5% AEP)
- -Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
- -Ar = TOTAL ROOFED AREA= 230 m^2
- -Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- -Ai = TOTAL UNROOFED IMPERVIOUS AREA= 900 m^2
- -Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
- -Ap = TOTAL PERVIOUS GRASS AREA = 2,270m^2
- -TOTAL FLOW Q_{PRE} = (Cr Ar +Ci Ai + Cp Ap). It / 3600 = 68.8 l/s

B) POST-DEVELOPED:
- -TOTAL APPLICABLE CATCHMENT AREA (A) = 3,400m^2
- -RAINFALL INTENSITY (It) = 144 mm/hr (5min -5% AEP)
- -Cr = RUNOFF COEFFICIENT FOR ROOFED AREA = 1.0
- -Ar = TOTAL ROOFED AREA=1,000 m^2
- -Ci = RUNOFF COEFFICIENT FOR UNROOFED IMPERVIOUS AREA = 0.9
- -Ai = TOTAL UNROOFED IMPERVIOUS AREA= 1,375 m^2
- -Cp = RUNOFF COEFFICIENT FOR PERVIOUS AREA = 0.3
- -Ap = TOTAL PERVIOUS AREA = 1025 m^2
- -TOTAL FLOW Q_{POST} = (Cr Ar +Ci Ai + Cp Ap). It / 3600 = 101.80 l/s

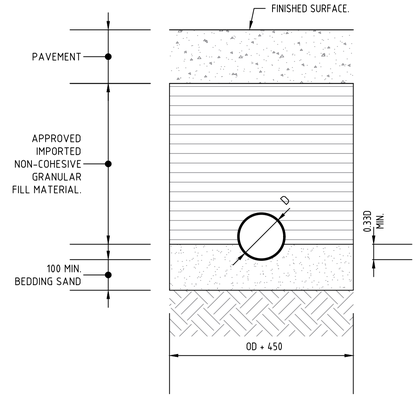
C) PERMISSIBLE PEAK DISCHARGE = PRE-DEVELOPMENT PEAK FLOW

D) OSD CALCULATION
- REQUIRED OSD VOLUME = (101.8-68.8)x5x60/1000= 9.9CUM
- PROPOSED ON RWT OSD = 15 CUM
- OSD-BY-PASS =61.4l/s(ALL SURFACE AREA)
- REQUIRED CONTROL FLOW FROM OSD = (68.8-61.4)=7.4l/s

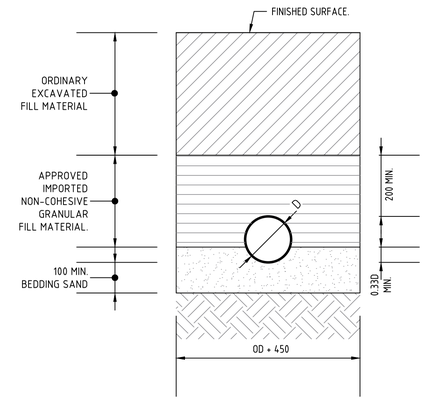
F) ORIFICE CALCULATION (ONGROUND)
- HEAD ABOVE THE CENTRELINE,D = Xm
- ORIFICE COEFFICIENT,C = 0.8
- ORIFICE DIAMETER,D = Xmm
- CONTROL FLOW=7.4l/s



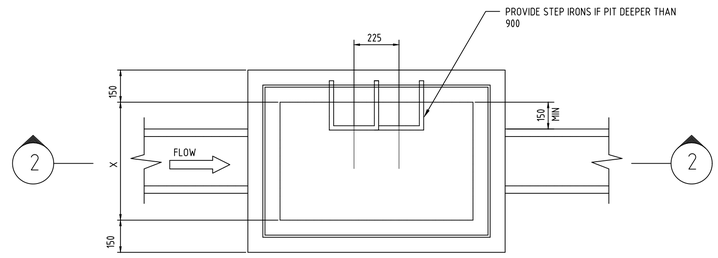
TYPICAL PIPE ENCASEMENT
SCALE 1:10
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



TYPICAL SECTION TRENCH IN ROADWAY
SCALE 1:10
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL

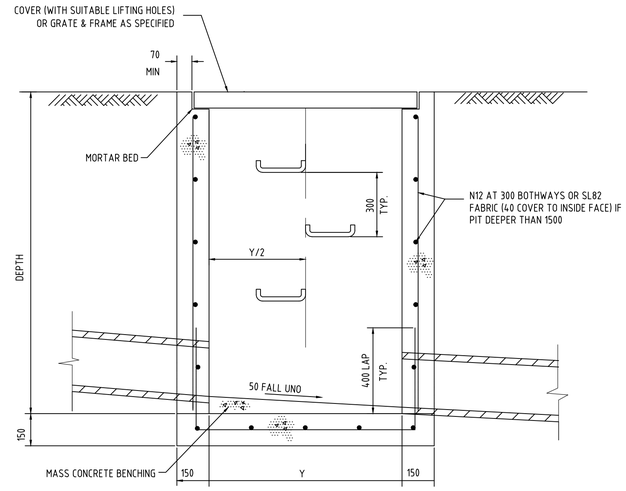


TYPICAL SECTION EARTH FOUNDATION TRENCH
SCALE 1:10
NOTE: PIPE COLLAR IS NOT TO REST ON ORIGINAL MATERIAL



PLAN
GRATED INLET PIT
N.T.S.

PIT DIMENSIONS		
DEPTH	X	Y
D<600	450	450
D<1000	600	600
D<1500	600	900
1500<D<2400	900	900
D>2400	750	1200



SECTION 2

INSPECTION HOLD POINTS
1. INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES.
2. WATER & SEWER LINE INSTALLATION PRIOR TO BACKFILL.
3. ESTABLISHMENT OF LINE & LEVEL FOR KERB & GUTTER PLACEMENT.
4. ROAD PAVEMENT CONSTRUCTION.
5. ROAD PAVEMENT SURFACING.
6. PRACTICAL COMPLETION.

SERVICES INSTALLATION
1. INSTALLATION OF ALL UNDERGROUND PIPES BE INSTALLED PRIOR TO INSTALLATION OF ROAD PAVEMENT.

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Client
MUSWELLBROOK SHIRE COUNCIL

Drawing Title
STORMWATER SPECIFICATIONS

Design ST
Drawn AR
Check DOS
Original Sheet Size A1
Revision A

Certification

Project No 44840
Drawing No C12