

CATCHMENT TO EXISTING CHANNEL (ASSUMES ALL INFRASTRUCTURE UPSTREAM OF CHANNEL IS IN PLACE AND FLOW FROM REACHES THE CHANNEL)
 Box Imp. 1/10
 70k Imp. 1/10
 Pipe = 250mm/1.5

CATCHMENT TO SLUICWAY
 Box Imp. 1/10
 70k Imp. 1/10
 Pipe = 250mm/1.5

DRAINAGE NOTES: -
 THE EXISTING DIRECTION OF FLOW IS TO THE NORTH WEST TOWARDS PRINCES HIGHWAY. THE EXISTING CHANNEL WILL BE UPGRADED AND CLEANED OUT.
 THE RUNOFF FROM THE SITE ONTO THE ADJACENT FLOODPLAIN IS TO BE DIVERTED INTO THE PROPOSED CHANNEL BEFORE THE BOUNDARIES RATHER THAN FLOWING OVER THE BOUNDARIES AND THEN TO THE CHANNEL. THE OND STORM EVENT AND PREDICTED FLOWS WILL BE CONTAINED WITHIN THE ALL DOWNPIPES WILL BE CONNECTED TO THE DRAINAGE AS THE SITE IS WITHIN THE WOLLONGONG CITY COUNCIL'S CONGRESSIONAL ZONE FOR ONSITE DETENTION (OSD). NO OSD WILL BE PROVIDED.

- LEGEND**
- (A) PROPOSED DRAINAGE PITS AND PIPES
 - DENOTES EXISTING DRAINAGE PIPE AND PITS
 - DENOTES EXISTING CONTOURS
 - DENOTES PROPOSED SURFACE LEVELS
 - DENOTES EXISTING SURFACE LEVELS
 - DENOTES EXTENT OF EXISTING EASEMENTS
 - PROPOSED BOUNDARY
 - PROPOSED ADDITIONAL PORTALS
 - PROPOSED RETAINING WALL

WARNING
 SERVICES ON THIS PLAN ARE DIAGRAMATIC ONLY PLEASE



THIS DRAWING IS FOR D.A. APPROVAL ONLY - NOT FOR CONSTRUCTION

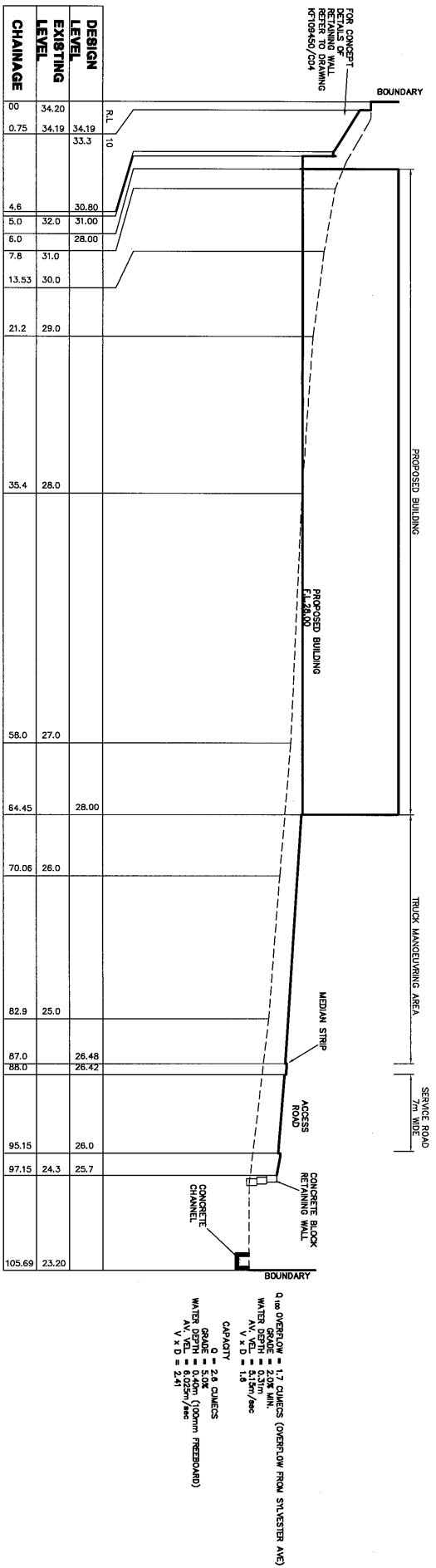
NO.	REVISIONS	DATE	BY	CHKD.
1	ISSUED FOR D.A. APPROVAL	22-08-06	[Signature]	[Signature]
2	REVISED TO SHOW PROPOSED DRAINAGE INFRASTRUCTURE	07-09-09	[Signature]	[Signature]

K.F. WILLIAMS & ASSOCIATES PTY. LTD.
 CONSULTING ENGINEERS, CIVIL & STRUCTURAL ENGINEERS
 Telephone: (02) 4229 9144, (02) 4229 2014
 Email: kwilliams@kwilliams.com.au
 A.C.N. 008 524 417

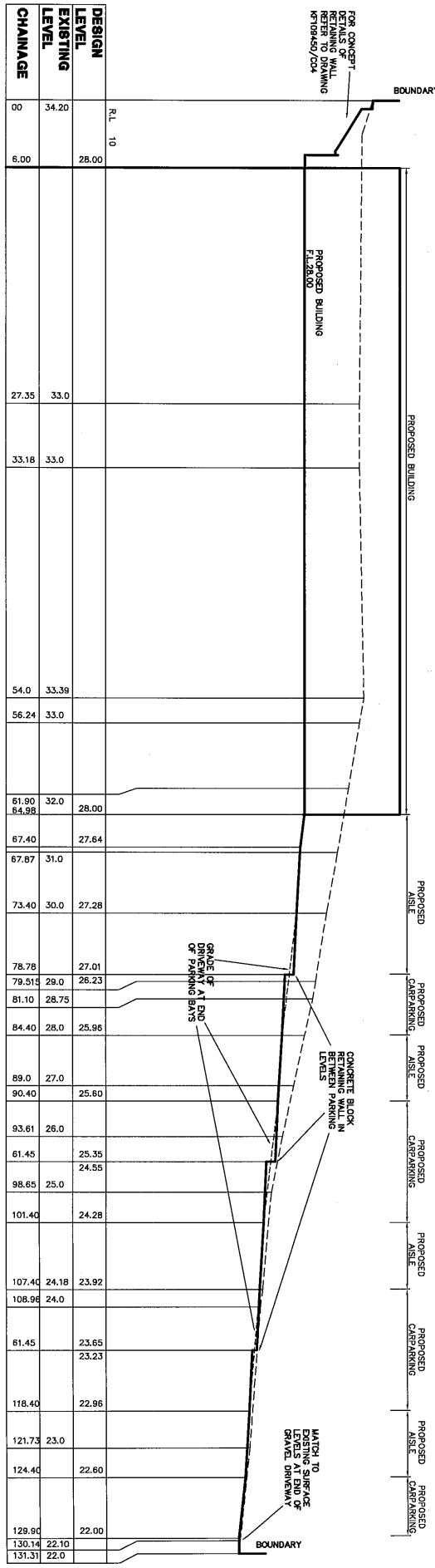
PROPOSED INDUSTRIAL BUILDING
 LOT 2 D.P. 1064872
 PRINCES HWY/SLUICWAY AVE, WANDERERRA
 OVERALL PLAN
 ISSUED FOR D.A. APPROVAL

DATE: 22-08-06	SCALE: 1:500	DM: 1:1000
PROJECT NO: KFT109450	DATE: 22-08-06	SCALE: 1:500
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PROJECT NO: KFT109450	DATE: 22-08-06	SCALE: 1:500

ISSUED FOR D.A. APPROVAL



0.1m OVERFLOW = 1.7 CURVES (OVERFLOW FROM SYLVESTER AVE)
 GRADE = 2.0% MIN.
 WATER DEPTH = 0.31m
 $V \times D = 1.6$
 $V \times D = 1.6$
 CAPACITY
 Q = 2.6 CUMecs
 GRADE = 5.0%
 WATER DEPTH = 0.40m (100mm FREEBOARD)
 $V \times D = 2.41$
 $V \times D = 2.41$



SECTION B - C01
SCALE 1:200 NATURAL

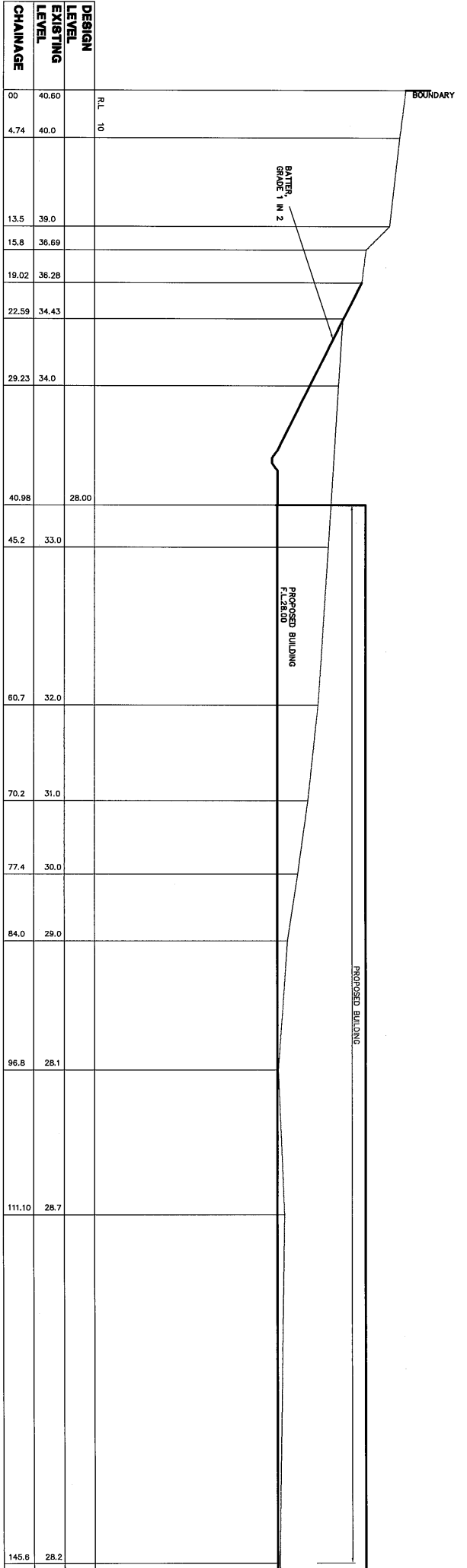
NO.	REVISIONS	DATE	BY	APP.	DATE
1	ISSUED FOR D.A. APPROVAL	14-07-08	SP		
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 CONSULTING ENGINEERS, CIVIL & STRUCTURAL ENGINEERS
 Telephone (08) 4288 7044 Perth WA (08) 4288 8004
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 LIC 008 994 417

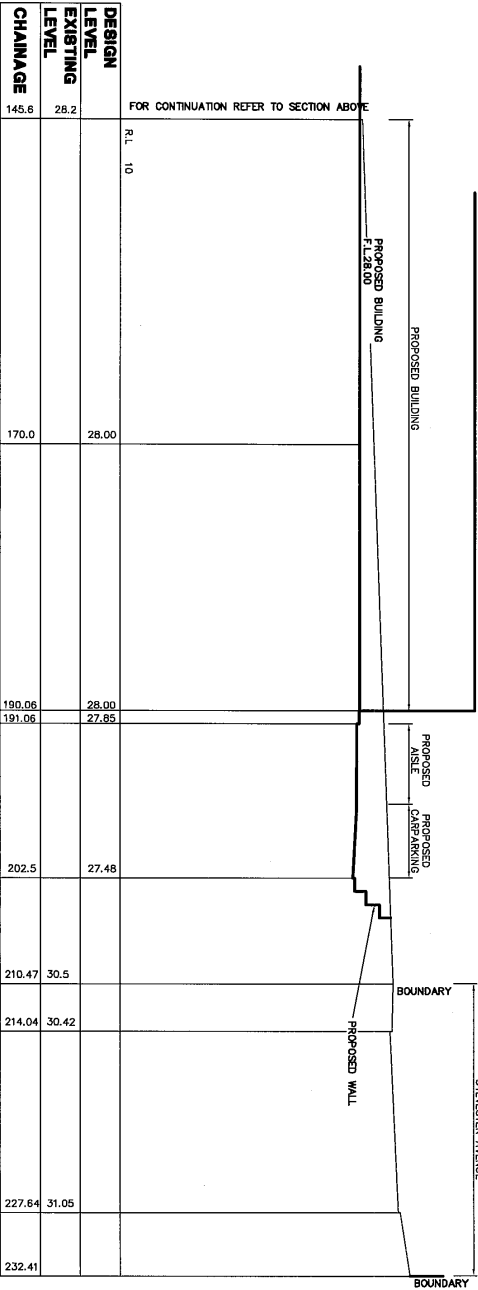
NO.	REVISIONS	DATE	BY	APP.	DATE
1	ISSUED FOR D.A. APPROVAL	14-07-08	SP		
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PROPOSED INDUSTRIAL BUILDING
 LOT 2 D.P. 1084872
 PRINCES HWY & SYLVESTER AVE UNANDERRA
 SECTIONS THROUGH SITE A AND B
 ISSUED FOR D.A. APPROVAL
 SHEET 2 OF 6
 DATE 14-07-08



SECTION C - C01
SCALE 1:200 NATURAL

FOR CONTINUATION REFER TO SECTION BELOW



SECTION C - CONTINUATION
SCALE 1:200 NATURAL

NO.	REVISIONS	DATE	BY	CHKD.
1	ISSUED FOR D.A. APPROVAL	14-07-08		



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50 Auburn St. Wollongong, N.S.W. 2500
Telephone: (02) 4228 7044 Fax: (02) 4228 5004
Email: kfw@kfw.com.au

DATE	BY	CHKD.
22-06-08		

PROPOSED INDUSTRIAL BUILDING
LOT 2 D.P. 1094872
PRINCES HWY/SILVESTER AVE UNANDERRA
SECTION C THROUGH SITE
ISSUED FOR D.A. APPROVAL

PROJ. NO. **KE109450**
SHEET 3 OF 8

- SEQUENCE OF OPERATIONS**
1. ALL CONSTRUCTION ACCESS TO THE SITE IS VIA STYESTER AVE ONLY. CONSTRUCTION TRAFFIC MUST NOT ENTER FROM THE WESTERN BOUNDARY TO THE NORTHWEST CORNER OF THE SITE. CONSTRUCTION TRAFFIC MUST BE LIMITED TO THE NECESSARY TO CONDUCT WORK ON THE CHANGING CONCRETE BENCH MARKS AND PROPERTY ON THE SOUTH WESTERN SIDE OF THE CONCRETE BENCH MARKS AND CATCH DRAINS.
 2. CONSTRUCTION TRAFFIC MUST NOT ENTER FROM THE WESTERN BOUNDARY TO THE NORTHWEST CORNER OF THE SITE.
 3. CONSTRUCTION TRAFFIC MUST NOT ENTER FROM THE WESTERN BOUNDARY TO THE NORTHWEST CORNER OF THE SITE.
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- EROSION CONTROL MEASURES TO BE UNDERTAKEN BY DEVELOPER WITHIN 14 DAYS OF COMMENCEMENT OF CONSTRUCTION**
1. PROVIDE ALL SOIL EXPOSED FROM THE BENCH MARK & OTHER SYSTEM FOR THAT SECTION OF THE SITE WITHIN 14 DAYS OF COMMENCEMENT OF CONSTRUCTION.
 2. PROVIDE ALL SOIL EXPOSED FROM THE BENCH MARK & OTHER SYSTEM FOR THAT SECTION OF THE SITE WITHIN 14 DAYS OF COMMENCEMENT OF CONSTRUCTION.
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 16. PROVIDE ALL SOIL EXPOSED FROM THE BENCH MARK & OTHER SYSTEM FOR THAT SECTION OF THE SITE WITHIN 14 DAYS OF COMMENCEMENT OF CONSTRUCTION.

- STATEMENT OF SOIL MANAGEMENT**
1. ALL TOPSOIL IS TO BE STORED IN AREAS DESIGNATED ON PLAN.
 2. ALL TOPSOIL IS TO BE STORED IN AREAS DESIGNATED ON PLAN.
 3. ALL TOPSOIL IS TO BE STORED IN AREAS DESIGNATED ON PLAN.
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 15. ALL TOPSOIL IS TO BE STORED IN AREAS DESIGNATED ON PLAN.
 16. ALL TOPSOIL IS TO BE STORED IN AREAS DESIGNATED ON PLAN.

- MAINTENANCE PROCEDURES DURING CONSTRUCTION**
1. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
 2. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
 3. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
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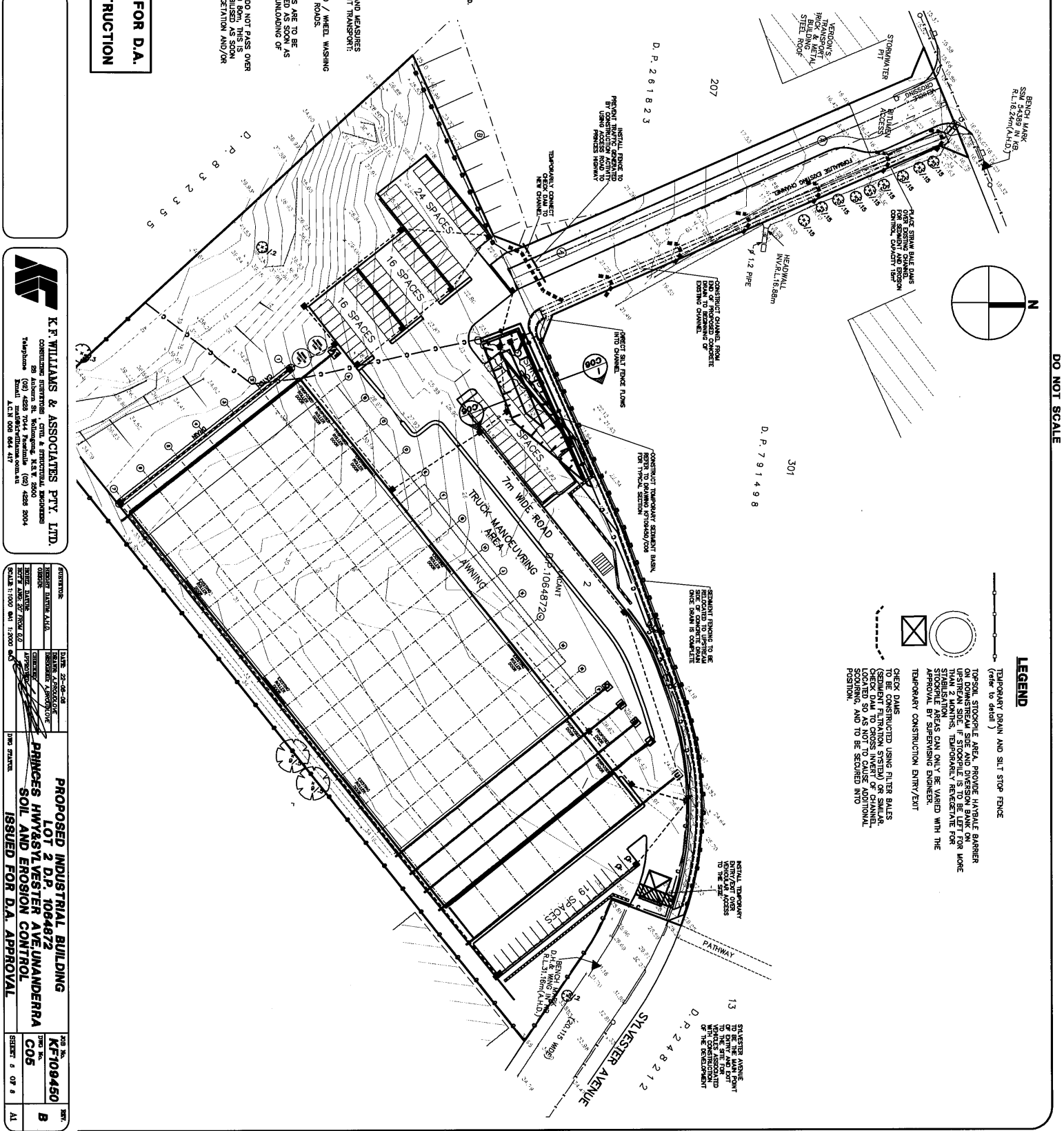
- THE FOLLOWING OUTLINES THE POSSIBLE SOURCES OF DUST AND EROSION, GENERATION AND MEASURES THAT ARE TO BE ADOPTED TO MINIMIZE THE POTENTIAL FOR SOIL EROSION AND SEDIMENT TRANSPORT:**
1. VEHICLE WASHERS.
 2. WIND.
 3. GASED DUST GENERATING ACTIVITIES DURING PERIODS OF HIGH WIND. TOPSOIL STOCKPILES ARE TO BE GASED AND STABILIZED AS SOON AS POSSIBLE. FINAL SURFACES ARE TO BE GASED AND STABILIZED AS SOON AS POSSIBLE. FINAL SURFACES ARE TO BE GASED AND STABILIZED AS SOON AS POSSIBLE.
 4. GASED DUST GENERATING ACTIVITIES DURING PERIODS OF HIGH WIND. TOPSOIL STOCKPILES ARE TO BE GASED AND STABILIZED AS SOON AS POSSIBLE. FINAL SURFACES ARE TO BE GASED AND STABILIZED AS SOON AS POSSIBLE.
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WARNING

SERVICES ON THIS PLAN ARE DIAGRAMATIC ONLY PLEASE

DIAL 1100 BEFORE YOU DIG

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NO.	REVISIONS	DATE	BY	DATE
1	ISSUED FOR D.A. APPROVAL	15-07-06
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K.F. WILLIAMS & ASSOCIATES PTY. LTD.

CONSULTING ENGINEERS, CIVIL & STRUCTURAL ENGINEERS

25 Adelaide St. West, Melbourne, VIC 3000

Telephone: (03) 4298 7044, (03) 4298 5004

Fax: (03) 4298 7044

Mobile: 0411 008 994, 041 417

PROPOSED INDUSTRIAL BUILDING

LOT 2 DP 108-4872

PRINCES HWY & STYESTER AVE UNANDERRA

SOIL AND EROSION CONTROL

ISSUED FOR D.A. APPROVAL

DATE: 22-08-06

DRAWN: A. COLODICE

CHECKED: M. COLODICE

APPROVED: M. COLODICE

SCALE: 1:1000

PROJECT NO: KFI09450

THE NO: C05

SHEET: 6 OF 8



WARNING
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- NOT FOR CONSTRUCTION



NO.	REVISIONS	DATE	BY	DATE
1	ISSUED FOR D.A. APPROVAL	14-07-08	[Signature]	
2	REVISED TO SHOW PROPOSED TURNING PATHS	14-07-08	[Signature]	

K.P. WILLIAMS & ASSOCIATES PTY. LTD.
 CONSULTING ENGINEERS, CIVIL & ENVIRONMENTAL ENGINEERS
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 7449 4344
 Email: kwilliams@kpw.com.au
 A.C.N. 008 664 417

PROJECT NO.	DATE	25-06-08
CLIENT	PREPARED BY	REVISED BY
PROJECT NAME	DATE	14-07-08
SCALE 1:1000 OR 1:2000 AS SHOWN	DATE	14-07-08

PROPOSED INDUSTRIAL BUILDING
LOT 2 D.P. 1064872
PRINCES HWY/SYLVESTER AVE UNMANDERRA
TURNING PATHS ON SITE
ISSUED FOR D.A. APPROVAL

JOB NO. **KF109450**
 SHEET NO. **C08**
 SHEETS: 8 OF 8

NOTES:-
 THE TURNING PATHS SHOWN ARE FOR B-DOUBLE
 TRUCKS. IT HAS BEEN ASSUMED THAT THE TRUCKS WILL ENTER
 THE SITE VIA SYLVESTER AVENUE ONLY, AND EXIT VIA
 THE DRIVEWAY TO PRINCES HIGHWAY THEN ONTO THE FB
 TURNING EITHER NORTH OR SOUTH.
 THE LOT 21 ONTO THE PRINCES HIGHWAY IS LEFT TURN
 ONLY.

LEGEND
 --- DENOTES EXTENT OF EXISTING EASEMENTS
 --- PROPOSED BOUNDARY