## RIVER BREEZE STAGE 4 - CIVIL WORKS

## TRASPUNT PROJECTS PTY LTD




ONTRACTOR TO DISPLAY APPROORIIIE WORKP ACE HEALTH AND
safety signage detalling the area beyond is a construction
SITE AND ONLY AUTHORISED PRRSONNEL CAN ENN

- CONSTRUCT VEHCLE WASHDOWN AREA AND ASSOCIATED SEDMEN
andeement devices construct site office and storage
COMPOUND AREA.
    - sedment basins to be constructed
IEARN
OFF DRAINS (LLEAN AND DIRTY) TO be Constructed.
都
existing grassed vegetated areas to be retaned where
possible Ano exposed disturbed area minilised
SUPERINTENOENT TO CONFIRM EXTENT OF CLEARING/EARTHWORKS
ONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
.
SCoMENT FENES SO BE RE-ERECTED TO ALLOTMENTS WHEN
RUURED. ANY STOCKPLES, TEMPORARY STOCKPILES AND
dAYS ARE TO BE EFFECTIVELY STABLISEED.
earthwork \& retalnng walls to be completed and exposed
REAS EFFECTIVELY STABUSED PRIOR TO WORKS PROCEEDING IN
THER AREAS.

as indicated or reaured -
SEDMENT FENCES TO BE INSPECTED WEEKLY AND FOLLOWING
Ranleall events. any repalrs reaured are to be effected
IMMEDIAtely.
sedment after rain is to be cleaned from streets and
ALLOTMENTS IMMEDATELY YND CORRECTIVE ACTION TAKEN TO
AVIID A RE-OCCURRENCE OF THE FALURE.
SEDIMENT BASINS to be flocculated And pumped out within
DAYS OF ALL RAIN EVENTS.


## SEDIMENT BASIN TABLE

| BASIN | LENGTH <br> $(\mathrm{m})$ | WITTH <br> $(\mathrm{m})$ | DEPTH <br> $(\mathrm{m})$ | BATTER <br> SLOPE | MINMMM <br> VOUUME <br> $\left(\mathrm{m}^{3}\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 27.0 | 19.0 | 1 | 1 in 2 | 429.0 |

BASIN SIZNG IS PRELOP OF bATter

## NOTES:



## LEGEND

stage boundary
SEDMENT FENCE (OR AS DIRECTED
BY SIIE SUPERNTENDENT)
CIEAN WATER CUTOFF IRAAN
(DIRECT FLOW TO SEDIMENT BASII
DRTY WATER CUTOFF DRAIN
DRRET FLOW TO SEDIMENT BASII atural surface contours


CONCEPTUAL EROSION AND SEDIMENT CONTROL PLAN SEDIMENT CONTROL PLAN
PHASE 1 - SHEET 1 OF 2

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The measures depicted on this plan are generally y $_{6}$ considered to be the MINIMUM to be implemented and maintained on the site during the construction phase.
Read in confunction with the Operational Works Conditions


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SEDIMENT BASIN TABLE

| BASIN | $\underset{(\mathrm{m})}{\text { Lenti }}$ | width | DEPTH <br> (m) | $\begin{array}{\|l\|l} \hline \text { BATTER } \\ \text { SLOPE } \end{array}$ | $\begin{aligned} & \text { MINMUM } \\ & \text { VNLUME } \\ & \left(\mathrm{m}^{3}\right) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 27.0 | 19.0 | 1 | 1 in 2 | 429.0 |
| * dimensions are to top of batter. <br> * BASIN SIZING IS PRELIMINARY ONLY. |  |  |  |  |  |
| NOTES: <br> REFER N14066.14-106 FOR GENERAL NOTES REFER N14066.14-107 FOR DETALLS |  |  |  |  |  |

## LEGEND

## 

$-\times$ - $\times \quad \begin{aligned} & \text { SEDMENT FENCE IOR AS DIRECTED } \\ & \text { BY SIIE SUPERITENDENTI }\end{aligned}$
CLEAN WATER CUTOFF DRAN
(DIRECT FLOW TO SEDIMENT BASIN)
IRTY WATER CUTOFF DRAIN
IDRECT FLOW TO SEDIMENT BAS natural surface contours

HE EROSION \& SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION \& SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN EROSION \& SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN CERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.

SEDIMENT BASIN TABLE

$\square$




## SEWER/ROOFW 1STORMWATER /SERMCSS <br> /STORMWAT /SERVICES



CONCEPTUAL SEDIMENT MANAGEMENT PROGRAM PHASE 2

## ECRIPTION OF WORKS

EXCAVATED MATERILL TO BE PLACED ON HIGH SIDE OF TRENCH AND
TO PROTECT PIPE WORK AND DRECT SUREACE MATERA AWAY FROM TO Protect p ExCAVATONS.
EFFECTVELY
ser COMPLETING THE SEWER AREAS IN ALLOTMENTS MMEDIATELY AFTER DEPRESS GROUND AROUND TEMOFWARY R IIERANAGE CONSTRUCTIO SEDIMENT POND.
PROVIIE 2.0M TURF STRPS OVER ROOFWATER AND SEWER TRENCHES, sedment fence to be erected 5 farom toe of batter on low SIDE OF STOCKPlE.
STOCFPILE SITE To be clear of stage boundaries so as to no STOUKPILE SIIE TE BE CLEAR OF STAGE BOUNI
CAUSE A NUSANE TO ADOININ PRRPERTIES.
STOCKPLLES NOT INTENDED TO BE WORKED FOR MORE THAN 10 days are to be effectively stablised.
: SEDMENT fences to allotments to be re-erected as reaured.
 FOLLOWNG KERB AND CHANEL INSTALLATION.
UTLISE UNDERGROUND DRANL SYLA UTLILSE UNDERGROUND DRANAGE SYSTEM AS CONVEYANEE SYSTEM OF DIRTY WATER TO BASINS (WHERE APPROPRIATE) TO AVOID SCOUR
OF ROAD BOX PROFILE.
effectively stablise allotments.
EFFECTVELY STABLISE ALLOTMENTS.
SEDMENT FENESS TO ALLOTMENTS To be RE-ERECTED. SEDMENT FENCES TO ALLOTMENTS TO BE RE-ERECTED.
PRIO TO EFEETVE STABIILATION, TOP SOL TO BE TESTED TO
ENSURE SATIIFACACORY CONITIONS EXIST TO ACHEVE TE ENSURE SATISFACTORY CONDTIONS EXIST TO ACHEVE THE REQUIRE EFFECTIVE STABILISATION.
cONTRACTOR TO AMELIORAT
Cutoff drains to limit slope lengths to less than bom to be MPLLEMENTED.
THE SEDMENT FENCES ARE TO BE INSPECTED WEEKLY AND FOLLOWING RAIN FALL EVENTS. ANY REPARS REQUIRED ARE TO BE
EFFECTED MMEDATRLY. EFFECTED IMMEDATELET. SEDMENT AFTER RAIN or construction traffic is to be cleaned
FROM STREETS AND AlLOTMENTS MMEDITEIY AND Copective FROM STIRETS
ACTION TAKEN.

## NOTES:

ReFER N14066.14-106 For General notes
REER N1406.14-107 For DETALLS

## LEGEND

stage boundary
SEDMENT FENCE (OR AS DIRECTED
BY SITE SUPERITENDENT)
clean water cutoff pran (DLRECT FLOW TO TOF SEDMENT BASIN) DIRTY WATER CUTOFF DRAIN
ODRECT FLOW TO SEDMENT STABLISED SURFACE (HYOROMULCH,
MULCH OR SEED To AlDOTMENTS Natural surface contours proposed design surface contours proposed stormwater drainage proposed sewer reticulation proposed water reticulation
full verge widt turf
inlet protection

|  |  | ${ }^{\text {comm }}$ |  |  | ${ }^{\text {Pestasen mitek }}$ |  |  |  | TRASPUNT PROJECTS PTY LTD |  |  |  |  |  | CONCEPTUAL EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - SHEET 1 OF 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }^{18}$ | ${ }^{18}$ | 230.5.1 | Summerast prane nemeio |  |  |  |  |  |  |  |  |  |  |  |
| 边 |  |  |  |  |  | ${ }_{\text {H1000 }}$ | Sismer | ${ }^{\text {apmoveose }} \mathrm{Blhm}$ |  | 'RIVER BREEZE |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | N14066.14 | CIVIL WORKS |  |  |  |  | N14066.14-104 | A |

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$3^{\circ}$
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SEDIMENT BASIN TABLE

| basin | Length | wITTH | $\underset{(m)}{\substack{\text { DEPTH }}}$ | $\begin{array}{\|l\|l\|} \hline \text { BATTER } \\ \text { SOPRF } \end{array}$ | $\begin{gathered} \text { MNIMUM } \\ \begin{array}{c} \text { VOLUME } \\ \left(\mathrm{m}^{3}\right) \end{array} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 27.0 | 19.0 | 1 | 1 in 2 | 429.0 |

* DIMENIONS ARE TO TOP OF BATTER.
* BASIN SZING IS PRELMINARY ONLY.

The measures depicted on this plan are Gencyalli considered to be the MINIMUM to be implemented and maintained on ${ }^{2}$ He sile drint the construction phase.
Read inconjunction with the Operational Works Conditions


| NOTES <br> REFER N14066.14-106 FOR GENERAL NOTES <br> REFER N14066.14-107 FOR DETAILS |  |
| :---: | :---: |
|  | LEGEND |
|  | stage boundary |
|  | sedment fence or as directed BY SITE SUPERINTENDENTI |
| $\rightarrow \rightarrow-$ | Clean water cutoff drain (DIRECT FLOW TO SEDIMENT BASIN) |
|  | DIRTY WATER CUTOFF DRAIN (DIRECT FLOW TO SEDIMENT BASIN) |
|  | stablised surface lhydromulch, MULCH OR SEED) TO ALLOTMENTS |
|  | natural surface contours |
| 3.50------ | proposed design surface contours |
|  | proposed stormwater drainage |
|  | proposed sewer reticulation |
|  | proposed water reticulation |
|  | Full verge widt turf |
| и,n" | ROCK CHECK DAMS @ 50m CENTRES OR WHERE SHOWN |



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THIS design for erosion and sedment control is conceptual only. THE contractor
SHAlL MODIF Or inst all adoitional/ alternative measures ouring The construction
 ACCORDANCE WITH BUT NOT LIMTED TO CALBRE CONSULTNG'S SPECIFLCATON 17 ,
FOR EROSON AND SEDIMENT CONTROL (V1.2) AND ALL STATUTORY REQUREMENTS

PRESCRBED WATER CONTAMINANTS (AS DEFINED IN THE ENVRONMENTAL PROTECTION ACT
MUST NOT BE RELEASED FROM THE SITE, OR BE LIKELY TO BE RELEASED SHOU MUST NOT BE RELEASED RROM THE SITE, OR BE LIKELY TO BE RELEASED SHOULD RANFALL
OCCUR, UNLESS ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT OR



 MNIMING THE DURATON OF SOLL EXPOSURE BY:

- STAGING THE WORKS TO MIMIE THE AREA
- StAGING THE WORKS TO MNMISE THE AREA of soll exposed at any one time DELAYED OR
WORKS ARE
Works are not intended to occur immedately. see eesc adile note 1; EFFECTIVELY STABLISING AREAS AT FINISHED LEVEL WITHOUT DELAY AND PRIOR to - effectively stabllising steep areas, such as stockplles, batters and EMBANKMENTS
WHICH ARE NOT BEING ACTIVELY WORKED AND PRIOR TO RAINFALL.
B. WHERE IT IT NOT FEASIBLE TO EFFECTVELY STABBLILE CLEARED AREAS OF EXPOSED
SOIL, SUCH AS AREAS BEING ACTVELY WORKED, IMPLEMENT A FULL SUITE OF EROSION
 MNMISE EROSION SUCH THAT EROSION BY ALL FORMS OTHER THAN SPLASH IRANDOR
MPACTI RROSON AN SHET RROISON DOES NOT OCUR; AND
c. IN AREAS OF EXPOSED SOIL WHERE IT IS NOT FEASIBLE TO EITHER EFFECTIVELY CONTROLS FOR EXAMPLL IN THE AREAS BEILG ACTIVEEY WOFRED AND WHERE THE
MPLLMENTATION OF SOME EROSON AND SEDIMENT CONTROIS WO AN IMPLEMENTATION OF SOME EROSON AND SEDMENT CONTROLS WOULD MPEDE
CONSTRUCTION ACTVITES, ENSURE CONTIGGENY MEAUURES ARE AVALABLE CONSTRUCTION ACTVVITIES. ENSURE CONTINGENCY MEASURES ARE AVIIIABEE ON SITE AND
ARE IMPLEMENTED. PRIOR TO RAN, TO MAXMISE SEDMENT CAPTURE AND TO MINIISE EROSON SUCH THAT EROSION BY ALL MARMS OTHER THAN SPLASH (RANINROP MMPACT)
D. EROSION AN SHEET EROSION DOES NOT OCCUR WHER IT IT NOT FEASBLELETO EFFECTVELY STABLILSE A STOCKPILE, BATTER OR



ENSURE SEDMENT BASINS ARE MANTANED WTH SUFFIIENT STORAGE CAPACITY TO
CAPTURE AND TREAT THE RUNOFF FOR THE DESIGN RANFALL DEPTH OR EVENT WHER CADIMENT BASINS ARE PRRPOSSED TO BE OVERSIZED FOR STORAGE OF CAPTURED WATER FOR RE-USE. INSTALL SURVEY MARKERS IN EACH SUCH BASIN TO INDICATE THE LEVEL
THAT WATER WITHIN THE BASIN MUST BE LOWERE TO, IN ORDER TO MEET THE STORAGE
CAPACITY SPECIIIED IN THE ABOVE R RQUUIREMENT.
ENSURE SEDMENT BASINS ARE DEWATERED AS SOON AS PRACTICABLE AFTER EACH
RAINALLL EVENT.
ENSURE THAT DURING dewaterng, the concentration of total suspended solios
ITSS) disharged does not exceed $50 \mathrm{MG} / \mathrm{L}$ AND That PH IS within The range of



- RELEASNG A HIGHER CONCENTRATION OF TOTAL SUSPENJED SOLID WILL RESULT IN A
BETTER ENVIRONMENTAL OUTCOME BY PROVIING STORAGE FOR THE CAPTURE AND TREAMENT O RUNOFF FROM THE MMMENT RANFALL AND RUNOFF; AND
- FLOCCULENT HAS BEEN APLIED AND THE CONCENTRATION OF TSS IN THE CATURED WATER HAS ALREADY SIGNFICCANTY DECREASED.

 IISPOSED OF APPROPRIATELY WTHOUT CAUSING WATER CONTAMNATION.
O. ENSURE SEDMENT DOES NOT LEAVE THE SITE ON THE TYRES OF VEHILLES.

3. THE ENVIRONMENTAL PROTECTION ACT 1994 STATES THAT A PERSON MUST NOT CARRY OUT AN TAKES ALL REASONABLE AND PRACTCAL MEASURES TO PREVENT OR MNMILES THE HARM. ENVIRONMENTAL HARM INCLDES ENVIRONMENTAL NUISANEE. IN REGARD PERSONS AND ENTTTES,
 ENVIRONMENTAL HARM.

ENVIRONMENTAL; HARM IS DEFINED BY THE ACT AS ANY ADVERSE AFFECT, OR POTENTIAL ADVERE AFFECT WHETHER TEMPORARY OR PERMANENT AND OO WHATEVER MAGNTUDE,
DURATION OR FREQUENCY ON AN ENVIROMENTAL VALUE AND INCIUDES ENYRONMENTAL
 ROSN
8. THE CONTRACTOR SHALL PROVIDE GULLY INLET PROTECTION TO ALL GULLY YNLET STRUCTURES
LOCATED, DIRETLY DOWNSTREAM OF THE PROPOSED DEVELOPMENT WORKS.
9. APPROPRIATE PROVIIIONS ARE TO BE PROVIDED TO THE ITTERFACE BETWEEN THE EXITING adpress workplace healit ni saety concerns le restriting actess by the ADDRESS WORKPLACE HEALTH
GENERAL PUBIIC TO THE SITE ).
10. THE LOCATION of THE CONstruction Vehicle compound, site office and the vehille
SERVIIING AREA SHALL BE AGREED WITH COUNCIL'S DESIGNATED REPRESENTATVE ON SITE, PRIOR SERVICING AREA SHALL BE AGREED
TO THE COMMENCEMENT OF WORKS.
11. Cleared vegetation is to not be burned on site, all vegetative wastels shall be
mulched and thereafer retaine on site for use as part of the erosion and MULLHED AND HEREASTER RETANED ON SITE FOR USE AS PART OF THE EROSION AND
SEDMENTATION CONTROL STRATEGY OR THE LANSSAPING REVEGETATION WORKS. ALL
STIM

12. SEIMENT FENCE AND TURFING RUNNING DOWNSLOPES SHALL HAVE REGULAS FLOW DISSIPATERS
13. during the construction process including that period during which the works are "on MANTENANCE' SHOULD COUNCL'S DESIGNATED REPRESENTATME REQUEST ADDITIONAL EROSION
AND SEDIMENT CONTROL MEASURES BE MMLEMENTED, SAID MEASURES SHALL BE IMPLEMENTED AT THE EARLEST TIME POSSIBLE. NOTWITHSTANDNG THE ABOVE REQUIREMENT ANY MEASURES REQUESTED TO BE IMPLEMENTED BY COUNCLI'S DESIGNATED RE
IMPLEMENTED WITHN 24 HOURS OF THE TIME OF THE REQUST.
14. ALL ROOFWATER / SEWER RETCULATION TRENCHES EITHER ADJACENT TO EXISTING DEVELOPMENT
OR PERPENOICULAR TO THE CROSSFALL OF THE LAND ARE TO BE TOPSOLLED (7Smm MNMUMM) AND OR PERPENDICULAR TO THE CROSSFALL
TURFED. FOR A MNMUM 900 mm WITTH.

16. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO RELEASE OR FLOW Is PERMITTED
FROM THE SITE, THROUGHOUT THE EARTHWORKS AND CONSTRUCTION PERIOD TO ANY WATER WAYS OR STORMMWATER DRANLINES LEADING TO A WATRRWAY OR AREA OF NATIVE VEGETATION
UNLESS THE LEVELS OF TOTAL SUSPENDED SOLICS DOES NOT EXCEED A CONCNTRATION OF 50 he constructiome ©flamlse. sedment reduces the capalit by 50\%
 iT IS NOT FEASIBLE TO DIVERT ALL AREAS DIISHARGING CLLEAN STORMWATER AROUND
OR THROUGH THE SITE. MANAGE THE CLEAN STORMWATER RUNOFF AS FOR OR THROUGH THE SITE, MANAGE THE CLEAN STORMW ATER RUNOFF AS FOR
CONTMMATED TOOMWATER UNNOFF, ANO ENSURE THAT SEDMENT BASINS ARE SIZED TO ACCOMMODATE THE ADDTIONAL VOLUME OF RUNOFF (SEE ERSC ADVICE NOTE 2).
ENSUSE SHEET LOOS OF STORMWATER ARE MANAGED SUCH THAT SHEET AND RILL
G. EROSION IS PREVENTED OR MINMISED.

 WVEAEE CONTMMNATION, SHEET, RILL OR GULLY EROSION, SEDIMENTATION, OR DAMAGE TO
STRUCTURES OR PROPERTY
H. ENSR MEASURS HAEE BEEN MPLEMENTED SUCH THAT THE RUNOFF FROM ALL
DSUTUREED AREAS FLLOWS TO A SEDMENT BASN OR BASINS. WHERE IT IS NOT FEASBLE TO DIVERT RUNOFF FROM DISTURBED AREAS OF THE SITE TO A SEDIMENT BASIN. MMPLEMENT COMPENSATORY EROSION AND DRANAGE CONTROLS PRIOR TO RANFALL TO
ENSURE THAT RROSION OF THOSE AREAS DOES NOT OCCUR, INLLUOING ERSSION CAUSED
 ENSURE EACH SEDMENT Ensure each sedment basin has the capacity to treat flows to current best
 STORE 2 MONTHS SEDIMENT FROM THE RECEIVNG CATCHMENT, AS DETERMINTH USING THE SEVISED UNIVERSAL SOLL LOSS EQUATION.

MAINTENANEE PEROD.
5. Where it is reaured to slash existing vegetation either prior to the commencement of

6. Where the exising vegetation within the proposed lots and or parkland is
 OF FINAL ALLOTMENT E
THAT DOES NOT HAVE

- VIIIBLE EVIDENCE of soll loss caused by sheet, rill or gully erosion
- Lead to sedmentation, or

ALL CONSTRUCTION VEHILES ARE TO ACCESS THE SITE VIA A SINGLE POINT OF ACCESS: THE
POINT OF ACCESS TOGETHER WITH THE MEASURES TO BE MPLEMENTED ARE TO
 IMPLLEMENTED IS / ARE TO LIMT THE TRACKING OF DELETERIOUS MATERIALS ONTO THE
SURREUNDNG ROAD NETWORK.
18. all permeter bank/swale shall have unnterrupted positive grade to an outlet.
19. AT ALL TIMES THE CONTRACTOR SHALL MONTOR THE PREVALING WEATHER CONOITIONS AND
PROTECT OR STABIIISE ANY DOWNSTREAM CONSTRUTTON AND GULIY NLETS.
20. clearing of site and stock ple areas to be as directed by the superintendent.
21. Where practical the contractor shall divert clean water enterng the site from
External catchments) and diected to the stormwater syster. this discharge point

22. REGULAR INSPECTIONS AND MANTENANCE OF VEHILE WASHDOWN AREA, SITE AND STORAGE
cOMPOUND TO BE CARRIED OUT BY CONTRACTOR.
23. AREAS USED FOR STORAGE OF CHEMICALS USED FOR CONSTRUCTION PURPOSES SHALL HAVE STORMWATER CONTROL DEVICES ERECTED ADACENT TO THEM IIE. EARTH BUND AND SEDMENT LOCAL AUTHORTY GUIDELINES AND TEMPORARY DEVIIES ARE TO BE REMOVED AND AREA
REHBLITATED.

> THE EROSION \& SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION \& SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN EROSIIN \& SEDIMEN CONTROL DESIGN AND A COMPLETED DESIGN CERTIIICATE PRIOR TO COMMENCEMENT OF WORK. CERTIICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.



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## SEDIMENT BASIN

THE EROSION \& SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION \& SEDIMENTATION CONTROL OR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN ROSION \& SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN


INLET GULLY DETAILS


SANDBAGS AT SAG GULLIES
to be provided at all sag gulles

> ROLL OF NETTING FILLED WITH 50mm To 70 mm GRAVE

KERB INLET PROTECTOR

ERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.


## SANDBAGS AT GULLIES ON GRADE <br> TO BE PROVIOED AT ALL ON-GRADE GULLIES

OVERFLOW WEIR DETAIL


TYPICAL ROCK CHECK DAM SECTION



DIRTY WATER CUTOFF DRAIN DETAIL
 CONSTRUCTINAS AS
SUPERNIENDENT.



$$
\begin{aligned}
& \text { Note-- }
\end{aligned}
$$



## TEMPORARY CONSTRUCTION

 ENTRY/EXIT SEDIMENT TRAP
## Nand



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## ROADWORKS \& DRAINAGE NOTES

ALL DMENSIONS ARE IN METRES UNLESS otherwISE SHown.
2. CONTRACTOR TO LIAISE WITH ALL THE RELEVANT SERVICE AUTHORTIES TO ASEERTAN SERVIIES PRESENT ON-SIIE. AN
ALTERATION WORKS TO SERVIICES WILL BE CARRED OUT BY THAT SERVVICE AUTHORITY ONLY.
3. the contractor shall notify the supernitenoent prior TO COMMENCEMENT OF DEMOLISHING AN
STRUCTURES WITHIN THE SITE AREAS.
4. NOT WITHSTANDING THE LIMTS OF CUTTING AND FILLING SHOWN ON THE CROSS SECHONS, YHE ACTUAL LMMTS SHALL BE DETERMNED ON-STE BY THE SUPERINTENDENT DURING
CONSTRUCTION AND SIMLALALY THE FNISHED SURFACE
 SUPERINTENDENT DURING CONSTRUCTION AATER
ORAWIGG HAVE BEEN APPROVED BY COUNCIL
5. ALL ALLOTMENT FLLL IS TO be COMPacted to The REQUREMENTS OF AS3798-2007
CURRENT MBRC SPECIFICATONS.
6. VERGE AND BATTERS TO HAVE A MIMMUM OF 75 mm Topsoll
AND FULL WIDTH TURF IF ORDERED.

MATCH TO EXISTING AC PAVEMENT EXTENSION OR WIDENNG
TO BE IN ACCORDANCE WTH IPWEA STO DRG SEQ R-170.
8. subgrade test results to be forwaroed to

SUBERADE TEST RENT FOS DETERMINATION OF BOX DEPTHS PRIOR
SUPE TO EXCAVATION TESTS SHALL INCLUDE SOAKED CRR ANDOR
OTHER TESTS AS REQUESTED BY THE SUPRRNTENDENTTHE DTHER TESTS AS REQUESTED BY THE SUPERRTITENENT.THE
CONTRACTOR SHALL ALLOW ADEQUATE TME FOR COUNCIL CONTRACTOR SHALL ALLOW ADEOU
APPROVAL OF PAVEMENT DESIGN.
9. LEVELS FOR KERB AND CHANNELING/EDGE OF PAVEMENT construction are at eival intervals at lip of chann
10. SIDE DRANS TO BE CONSTRUCTED UNDER ALL KERBS AND ALI
KERB AND CHANNEL AS PER MBRC STANDARDS REFER KERB AND CAANEL AS PER MBRC SIANARDS. RE
STANDARD DRAWING IPWEA RS-140 FOR DETALLS.
11. AlL STORMWATER PIPES UNDER ROADWAYS AND FOOTPaths SHALL BE LLASS 2 R.C. R.R.J. UlLeSS NOTED OHERWSL.
12. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR
SERVICE LOADS ONLY, ANO THE CONTRACTOR SHALL ASSESS ANTICPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE LASSES, IF NECESSARY, IN ACCORDANCE WITH A.S $3725-198$

All lots not drainng to a property pit to have 2 KERB ADAPTORS. KERB ADAPTORS SHOWN ARE INDICATVE
ONLY AND ARE TO BE INSTALLED IN ACCORDANCE WTTH PWE STD DRG RS-081.
14. CONCRETE FOOTPATHS TO BE INSTALLED BY THE CIVIL
CONTRACTOR UNLESS OTHERWISE NOTED CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO IPWEA STI
5. KERB ADAPTORS FOR LOT; 79, 84, 89, 93, 100, 101, 102, 20,
$\& 209$ TO BE CONNETED TO ADJACENT STORMWATER PIT.
16. CONSTRUCT CONCRETE DRIVEWAYS IN ACCORDANCE WITH IPWEA


TYPICAL REAR INTER-ALLOTMENT DRAINAGE SWALE

TYPICAL SCOUR PROTECTION DETAIL PLAN SCALE: $1: 25$ (A1)
SCALE: $1: 50$ (AB)



## SCOUR PROTECTION NOTES:

. IF ROCK SIZE IS SPECIFED ON THE PLAN AS DS THIS CORRESPONDS TO A ROCK SIZE WITH A MEDAN ROCK DIAMETER OF DS0. A VARIANEE OF $530 \%$ IS ACCEPTABLE. Eg. IF $\mathrm{D}_{50}=$
SPECIFED THEN THE EQUVALENT ROCK DIAMETER RANGES FROM 420 mm TO 780 mm .
2. Netiter breadth nor thickness of a single rock shall be less than one half its
3. ROCK TYPE - basalt or other approved material. to be confirmed wit
rocks greater than $\mathrm{D}_{\mathrm{go}}=450$ to be placed and interlocked into position and bulit UP TO FNAL LEVELS SHOWN, ENSURING COVERAGE OF GEOFABRL. GAPS BETWEEN THE
BOULDERS ARE TO BE FILLED BY DROPING STONES INTO GAPS AND LOCKING INTO POSITIO WITH A CROWBAR.
nto position. buld Rocks Less than \& eaual to $\mathrm{D}_{\text {so }}$ L 450 To be dumped
TO FINAL LEVELS \& ENSURING COVERAGE OF GOOFABRIC.



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| ROAD | TRAFFIC ESA's | $\underset{(\mathrm{mm})}{\text { PRIMER }}$ | $\underset{(\mathrm{mm})}{\substack{\text { SURACING }}}$ | $\begin{gathered} \text { BASE } \\ \text { (CARE } \\ \text { (TMPE } 8011 \end{gathered}$ |  |  | $\begin{gathered} \hline \text { Total } \\ \text { BOX } \\ \text { (mm) } \end{gathered}$ | Street classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SUMMERTASTE PARADE | $9.2 \times 10^{4}$ | 10 | 25 | 100 | 100 | 0 | 225 | ACCESS STREET |
| CHELLO STREET | $9.2 \times 10^{4}$ | 10 | 25 | 100 | 100 | 0 | 225 | ACCESS STREET |
| GOLDIE STREET | $9.2 \times 10^{4}$ | 10 | 25 | 100 | 100 | 0 | 225 | ACCESS STREET |



NOTE:
PRELIMNARY PAVEMENT DESIGNS HAVE BEEN basED on an assumed Subgrade cbr. Actual pavement designs will be based on tis matis taken after stappng has been complet as
WHEN THE TOTAL PAVEMENT DEPTH (AS DETERMNED BY SUBGRADE TESTS) EXCEEDS THE NORMAL DEPTH, THE PAVEMENT GRAVEL SHAL
EXTEND UNDER THE KERB AND boxing depth shown on cross sections is inoicative only. refer to pavement design table for all construction depths.

DATUM R.L.-1
ROAD GRADING
CUT (-) \FILL (+)
LHS LIP LEVEL
RHS LIP LEVEL
DESIGN
EXISTING
SURFACE
CHAINAGES
HORIZONTAL ALIGNMENT

(xitule

|  | (cucs |  | come |  | man uricok | $\qquad$ |  | SURVEYOR: LANDPARTNERS LIMITED <br>  <br>  | TRASPUNT PROJECTS PTY LTD |  |  |  | SUMMERTASTE PARADE LONGITUDINAL SECTION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ${ }^{\text {c }}$ | ${ }^{18}$ | 2,3,5.17 | setio |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | $\begin{gathered} \text { SURVEY DATUN } \\ \text { PM120863 } \end{gathered}$ | Brhm | N14066.14 | RIVER BREEZE STAGE 4 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CIVIL WORKS |  |  | N14066.14-111 | A |

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CH 260

RL12.000
CH 240.000

CH 226.531


RL10.000
CH 300.000




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DATUM R.L.-4




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proposed stormwater drainage proposed sewer reticulation proposed water reticulation layback kerb and channel upright kerb and channel seml-mountable type kerb edge-restraint type kerb CONCRETE FOOTPATH (TYP) design contours 10.1 m intervals) proposed street name sign
hreshold treatment
concrete driveway

| NoTE |
| :--- |
| SETOUT IS TO LO LP OF CHANNEL. LEVELS ARE |
| TO LP OF CHANEL. |
| KER CEVELSHON AT EQUAL INTERVALS, |
| UNLELSS OTHERWISE NOTED. |

REFER N14066.14-402 FOR CONCRETE DETALS
$\square$

| 871 |
| :--- |

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|  | SURVEYOR: LANDPARTNERS LIMITED <br> Level 1 , CDOP 6 , 18 Little Crib Street, Militon, QLD, 4064 Pr: 107138421000 Fax: 107138421001 | TRASPUNT PROJECTS PTY LTD |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | N14066.14 | PRovect RIVER BREEZE STAGE 4 CIVIL WORKS |  |



| INTERSECTION SETOUT |  |  |  | INTERSECTION SETOUT |  |  |  | INTERSECTION SETOUT |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| polint \# | NORTHING | Easting | Level | Polint \# | Northing | EASting | Level | Polnt \# | Northing | EAsting | Level |
| 1 | 6243.694 | 4780.759 | 11.984 | 31 | 6298.368 | 4886.627 | 10.657 | 61 | 6381.531 | 4763.261 | 14.214 |
| 2 | 6245.655 | 4782.933 | 11.961 | 32 | 6298.71 | 4882.313 | 10.730 | 62 | 6380.205 | 4754.880 | 14.306 |
| 3 | 6250.753 | 4786.946 | 11.911 | 33 | 6302.022 | 4891.560 | 10.563 | 63 | 6382.815 | 475.540 | 14.249 |
| 4 | 6255.385 | 4791.447 | 11.862 | 34 | 6305.331 | 4894.335 | 10.488 | 64 | 6384.231 | 4756.569 | 14.205 |
| 5 | 6258.122 | 4795.368 | 11.825 | 35 | 6304.568 | 4895.245 | 10.481 | 65 | 6385.646 | 4757.598 | 14.249 |
| 6 | 6259.284 | 4796.599 | 11.812 | 36 | 6301.259 | 4892.470 | 10.551 | 66 | 6383.697 | 4754.327 | 14.256 |
| 7 | 6256.547 | 4804.506 | 11.774 | 37 | 6353.891 | 4789.424 | 13.432 | 67 | 6385.755 | 4751.496 | 14.274 |
| 8 | 6255.396 | 4802.395 | 11.794 | 38 | 6351.087 | 4771.699 | 14.270 | 68 | 6387.170 | 4752.525 | 14.230 |
| 9 | 6249.948 | 4796.745 | 11.859 | 39 | 6362.294 | 4776.733 | 13.887 | 69 | 6388.586 | 4753.554 | 14.274 |
| 10 | 624.955 | 4792.811 | 11.906 | 40 | 6364.541 | 4776.377 | 14.106 | 70 | 6386.088 | 4760.392 | 14.322 |
| 11 | 6242.112 | 4788.391 | 11.954 | 41 | 6365.244 | 4780.822 | 14.047 | 71 | 6387.099 | 4761.127 | 14.374 |
| 12 | 6240.998 | 4877.566 | 11.965 | 42 | 6362.997 | 4781.178 | 13.766 | 72 | 6385.336 | 4763.554 | 14.362 |
| 13 | 6248.776 | 4789.354 | 12.000 | 43 | 6365.315 | 4776.255 | 14.116 | 73 | 6384.324 | 4762.819 | 14.310 |
| 14 | 6253.084 | 4793.882 | 11.949 | 44 | 6369.720 | 4773.556 | 14.137 | 74 | 6378.739 | 4770.503 | 14.256 |
| 15 | 6222.405 | 4794.528 | 11.950 | 45 | 6370.720 | 4775.157 | 14.090 | 75 | 6379.750 | 4771.238 | 14.306 |
| 16 | 6248.097 | 4790.000 | 12.001 | 46 | 6372.136 | 4776.186 | 14.134 | 76 | 6377.986 | 4773.665 | 14.294 |
| 17 | 6282.625 | 4838.635 | 11.379 | 47 | 6371.351 | 4771.314 | 14.151 | 77 | 637.975 | 4772.930 | 14.244 |
| 18 | 6296.391 | 4843.290 | 10.919 | 48 | 6772.766 | 4772.343 | 14.107 | 78 | 6771.083 | 4777.417 | 14.127 |
| 19 | 6298.807 | 4848.175 | 10.919 | 49 | 6374.182 | 4773.372 | 14.151 | 79 | 6370.959 | 4780.114 | 14.198 |
| 20 | 6294.153 | 4861.940 | 10.995 | 50 | 6372.997 | 4769.049 | 14.16 | 80 | 6371.860 | 4780.956 | 14.247 |
| 21 | 6301.240 | 4876.268 | 10.722 | 51 | 6372.444 | 4765.557 | 14.240 | 81 | 6372.401 | 4781.349 | 14.273 |
| 22 | 6302.420 | 4882.386 | 10.615 | 52 | 6373.444 | 4764.182 | 14.249 | 82 | 6370.637 | 4783.776 | 14.243 |
| 23 | 6307.088 | 4891.823 | 10.426 | 53 | 6375.466 | 4765.652 | 14.18 | 83 | 6370.096 | 4783.383 | 14.218 |
| 24 | 6311.235 | 4896.473 | 10.317 | 54 | 6376.881 | 4766.681 | 14.142 | 84 | 6368.513 | 4781.860 | 14.123 |
| 25 | 6305.772 | 4901.105 | 10.290 | 55 | 6378.297 | 4767.710 | 14.186 | 85 | 6365.687 | 4780.752 | 14.064 |
| 26 | 6292.007 | 4896.450 | 10.297 | 56 | 6376.325 | 4760.218 | 14.273 | 86 | 6301.668 | 487.529 | 10.699 |
| 27 | 6289.590 | 4891.565 | 10.297 | 57 | 6378.347 | 4761.688 | 14.211 | 87 | 6303.647 | 4875.551 | 10.932 |
| 28 | 6294.244 | 4877.800 | 10.751 | 58 | 6376.677 | 4759.733 | 14.276 | 88 | 6304.977 | 4878.240 | 10.908 |
| 29 | 6299.357 | 4882.258 | 10.729 | 59 | 6378.700 | 4761.203 | 14.214 | 89 | 6302.558 | 4879.436 | 10.641 |
| 30 | 6299.554 | 4886.573 | 10.659 | 60 | 6380.115 | 4762.232 | 14.170 |  |  |  |  |



TYPICAL SLOW POINT DETAIL


[^1]


REFERENCE POINT LOCATION
FOR DRAINAGE STRUCTURES

| STRUCTURE | Horlzontal control [REEERENEE POINT LOCATION) | vertical control (REFERENCE LEVEL) |
| :---: | :---: | :---: |
| Manhole |  | FINISHED SURFACE LEVEL |
| $\underset{\text { PIT }}{\substack{\text { GULY }}}$ | ON NOMINAL KERB LINE IINVERT LINE OF KERB AND (HANNEL) | INVERT OF KERb and channel |
| HeADWALL | intersection of headwall FACE \& PIPE CENTRE LINE | invert level |

## NOTES:

refer to ipwea std drg ds-010 to ds-017 for access chamber detalls.
2. Refer to ipwea std drg ds-030 to ds-031 for bedodng backfll and excavation detalls.
3. Refer to ipwea std drg ds-050 for fleld inlet detalls.
4. Refer to IPwea std drg ds-061 to ds-063 for kerb inlet lip in line gully detalls.
5. IPWea std lip in line gullies must be provided with grated INLETS, MAX a MANNNG or PRSC APPROVED EQUUVALENT FOR BICYCLE AND PEDESTRIAN SAFETY.
6. Refer to ipwea std drg ds-082 for culvert inlet screen detalls.
refer to department of transport and main roads std drgs 1179. 1303. 1304. 1305 AND 1306 FOR APRONS HEADWALS AND 1179, 1303, 1304, 1300
WINGWALL DETALLS.
8. headwalls to stormwater outlets can be pre-cast or cast NSITU OR PRE-CAST SUBJECT TO PRSC APPROVAL
9. construction of rcbc's , rcbc headwalls aprons and wingwalls 0 BE IN ACCORDANEE WTH DEPARTMENT OE TRANSPORT AND MAIN ROADS STD DRGS 1316 TO 1320 AND 1359

CONSTRUCTION EQUIPMENT LOADING TYPICAL DETAILS

| construction EQUIPMENT | $\begin{aligned} & \text { PIPE } \\ & \text { CLASS } \end{aligned}$ |  | MINMUM COMPACtion cover to plpe obvert |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\varnothing_{300}$ | ¢375 | ¢450 | ¢525 | $\varnothing 600$ | $\varnothing_{6} 75$ | ø750 | $\emptyset_{825}$ | $\varnothing 900$ | $\varnothing 10$ |
| VIBRATORY RAMMER (UP TO 75 kg ) <br> (UP TO 75 kg ) | 2 | 0.450 | 0.450 | 0.400 | 0.400 | 0.350 | 0.350 | 0.300 | 0.300 | 0.2 | 0.250 |
|  | 3 | 0.300 | 0.300 | 0.300 | 0.300 | 0.250 | 0.250 | 0.200 | 0.200 | 0.200 | 0.20 |
| Vibratory trench <br> ROLLER (UP TO 2+) | 2 | 0.400 | 0.400 | 0.400 | 0.350 | 0.250 | 0.250 | 0.200 | 0.200 | 0.200 | 0.2 |
|  | 3 | 2, 25 | 0.250 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |  |
| VIBRATORY SMOOTH DRUM ROLLER (7+) | 2 | 0.700 | 0.700 | 0.700 | 0.650 | 0.650 | 0.650 | 0.600 | 0.600 | 0.400 | 0.4 |
|  | 3 | 0.40 | 0.45 | 0.450 | 0.450 | 0.350 | 0.350 | 0.200 | 0.200 | 0.200 | 0.200 |
| VIBRATORY SMOOTH DRUM ROLLER (10+1) | 2 | 0.850 | 0.850 | 0.850 | 0.800 | 0.800 | 0.800 | 0.750 | 0.750 | 0.750 | 0.750 |
|  | 3 | 0.550 | 0.550 | 0.550 | 0.500 | 0.500 | 0.500 | 0.200 | 0.200 | 0.200 | 0.2 |
| EXCAVATOR AND COMPACTION WHEEL (15t) | 2 | 0.650 | 0.700 | 0.650 | 0.650 | 0.650 | 0.650 | 0.600 | 0.600 | 0.55 | 0.550 |
|  | 3 | 0.450 | 0.450 | 0.450 | 0.450 | 0.450 | 0.450 | 0.350 | 0.350 | 0.250 | 0.250 |
| EXCAVATOR AND COMPACTION WHEEL (25t) | 2 | 1.000 | 1.050 | 1.000 | 0.950 | 0.900 | 0.900 | 0.850 | 0.850 | 0.750 | 0.75 |
|  | 3 | 0.650 | 0.65 | 0.650 | 0.650 | 0.650 | 0.650 | 0.600 | 0.600 | 0.500 | 0.500 |
| $\underset{(14.5+)}{\text { GRADER (CAT120H) }}$ | 2 | 0.600 | 0.600 | 0.600 | 0.450 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |
|  | 3 | 0.600 | 0.600 | 0.450 | 0.450 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |  |
| GRADER (CAT14OH) (17.0t) | 2 | 0.600 | 0.600 | 0.600 | 0.600 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |
|  | 3 | 0.600 | 0.6 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |
| SCRAPER (CAT613C11) (27.2+) | 2 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.200 | 0.20 |
|  | 3 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.200 | 0.200 | 0.200 | 0.200 |
| SCRAPER (CAT621F) (53.8t) | 2 | 0.700 | 0.700 | 0.700 | 0.650 | 0.650 | 0.600 | 0.600 | 0.600 | 0.600 | 0.60 |
|  | 3 | 0.650 | 0.650 | 0.650 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.6 |
| dozer (catdo g) | 2 | 0.600 | 0.60 | 0.600 | 0.600 | 0.20 | 0.200 | 0.200 | 0.20 | 0.2 | 0.200 |
|  | 3 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 |
| dozer (cator r) | 2 | 0.600 | 0.600 | 0.600 | 0.600 | 0.60 | 0.600 | 0.600 | 0.600 | 0.600 | 0.200 |
|  | 3 | 0.600 | 0.600 | 0.600 | 0.600 | 0.60 | 0.600 | 0.200 | 0.200 | 0.20 | 0.200 |
| excavator Icat 315B) (15.8广) | 2 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 |
|  | 3 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 | 0.200 | 0.200 | 0.200 | 0.20 | 0.200 |
| ExCAVATOR (CAT377) (17.37) | 2 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 | 0.200 |
|  | 3 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 |
| EXCAVATOR <br> (CAT325B) (25.9†) | 2 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.20 | 0.2 |
|  | 3 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |





15/11-1800 dia
SL 11.232


5/22-1500 dia SL 10.963


14/11-1800 dia

## SL 11.439



SL 10.804


2/22-1350 dia
SL 14.463


4/22-1350 dia SL 12.063


SL 12.027


3/22-1350 dia
SL 13.701



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TYPICAL SECTION
CONCRETE SLEEPER RETAINING WALL AT PROPERTY FRONTAGE

NOTE. REETANING WALLE D:ESIGN AND
CONSTRUCTION TO INCORSORATE LOADNG FROM

CONSTRUC TION TO NHCORPORALE LOADNG FROM
ACOUSTIC FENCE WHERE APPLCABLE

## MINIMUM DESIGN REQUIREMENTS <br> - SURCHARGE LOADNG ON BACKFILL: 5 KR - POST AND FOOTNG DESIGN TO ALLOW <br> MAX 1V:HH SLOPE BEHND

## NOTES

- RELANNGG Walls to be constructed to MANUFACTURERS SPECIFIATIINS.

2. CONTRACTOR TO PROVIDE STRUCTURAL CERTIFILATION FOR RETANNG WALLLS DESIGN AND CONSTRUCTION. 3. POST AND FOOTIN DESIGN TO ALCOMODATE APPROV
1.80 SAFETY FENE TO 1.80m SAFETY FENE TO ALL WALLS HIGHER THAN 1.0m.
3. FOOTNGS ADJACENT SERVICS ARE TO EXTEND BELOW 4. FOOTINGS ADJACENT SER
THE ZONE OF INFLUENEE.

THE ZONE OF NFLUENCE.
S. POST AN FOOTNG TO COSTRUCTED 1.0 m EITHER
SIOE OF THE SEWER MAN WHERE APPLICABLE.

TYPICAL SECTION AT FENCED BOUNDARIES
NOTE: RETANNG WALL DESIGN
CONSTRUCTION TO INOORPORATE LOADING FROM


|  | ${ }_{\text {coccs }}^{\text {cose }}$ | ${ }^{\text {a }}$ | ${ }^{\text {anf }}$ | anemumeri oetals |  |  |  | SURVEYOR: LANDPARTNERS LIMITED 2 LOL <br>  | TRASPUNT PROJECTS PTY LTD |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\hat{\text { en }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | Provect No. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ${ }_{\text {Pr Mr1283 }}$ | \%as | N14066.14 | STAGE 4 |  |  |  |  |  | ${ }^{\text {sove }}$ |
|  |  |  |  |  |  |  |  |  |  | CIVIL WORKS |  |  |  |  | N14066.14-401 |  |

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[^0]:    Approved Subject to Conditions of Decision Notice DA/29754/2014/V4D/2

[^1]:    Approved Subject to Conditions of Decision Notice DA/29754/2014/V4D/2

[^2]:    Approved Subject to Conditions of Decision Notice DA/29754/2014/V4D/2

