NOTES:

1. ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.

DRAWING No.	SUBDIVISION STANDARD DRAWINGS
GENERAL	
SS0000	SCHEDULE OF DRAWINGS
SIREE IS AL	ND PATHWAYS
SS1000	STREET HIERARCHY - CATEGORY A - RESIDENTIAL AND MIXED USE - SET TYPE 1 - SHEET 1 OF 4
SS1001	STREET HIERARCHY - CATEGORY A - RESIDENTIAL AND MIXED USE - SET TYPE 1 - SHEET 2 OF 4
SS1002	STREET HIERARCHY - CATEGORY A - RESIDENTIAL AND MIXED USE - SET TYPE 2 - SHEET 3 OF 4
SS1003	STREET HIERARCHY - CATEGORY A - INDUSTRIAL - SET TYPE 1 - SHEET 4 OF 4
SS1004	STREET HIERARCHY - CATEGORY B AND C - RESIDENTIAL, MIXED USE AND INDUSTRIAL
SS1005	STREET HIERARCHY – CATEGORY D AND E – RURAL
SS1006	VEHICLE ACCESS - CATEGORY A - TYPICAL DETAILS
SS1007	VEHICLE ACCESS - CATEGORY B - TYPICAL DETAILS
SS1008	VEHICLE ACCESS - CATEGORY C TO E - TYPICAL DETAILS
SS1009	FOOTPATHS, SHARED PATHS AND KERB RAMPS – TYPICAL DETAILS
SS1010	STREET NAME SIGNS - TYPICAL DETAILS
PUBLIC OPE	N SPACE AND LANDSCAPING
SS2000	PLANTING - TYPICAL DETAILS
STORMWAT	<u>ER DRAINAGE</u>
SS3000	SUBSOIL DRAINAGE - TYPICAL DETAILS
SS3001	STORMWATER PIPES - TYPICAL TRENCH DETAILS
SS3002	STORMWATER PIPES – TYPICAL LOT CONNECTION DETAILS
SS3003	STANDARD SIDE ENTRY PIT - TYPE A DETAILS - SHEET 1 OF 2
SS3004	STANDARD SIDE ENTRY PIT - TYPE B TO E DETAILS - SHEET 2 OF 2
SS3005	GRATED SIDE ENTRY PIT – GENERAL ARRANGEMENT – SHEET 1 OF 3
SS3006	GRATED SIDE ENTRY PIT - LINTEL & PIT ARRANGEMENT DETAILS - SHEET 2 OF 3
SS3007	GRATED SIDE ENTRY PIT – GRATE AND FRAME – SHEET 3 OF 3
SS3008	ACCESS CULVERT - TYPICAL ENDWALL DETAILS
<u>UTILITIES</u>	
SS4000	URBAN MASTER SERVICES PLAN – SAMPLE LAYOUT
SS4001	RURAL MASTER SERVICES PLAN – SAMPLE LAYOUT
<u>LIGHTING</u>	
SS5000	LIGHTING DRAWINGS LIST
SS5001	STEEL COLUMNS - 9.0m AND 12.0m TAPERED OUTREACH TYPE
SS5002	STEEL COLUMNS - 12.0m TAPERED OUTREACH TYPE VIAC
SS5003	STEEL COLUMNS - 5.5m TAPERED OUTREACH TYPE
SS5004	STEEL COLUMNS - 6.5m TAPERED CURVED OUTREACH TYPE
SS5005	STEEL COLUMNS - 5.5m TAPERED POST TOP TYPE
SS5006	TYPE 5 AND TYPE 9 RAG BOLT REINFORCEMENT DETAIL
SS5007	TYPE 12 RAG BOLT REINFORCEMENT DETAIL
SS5008	TYPE 5, 9 AND 12 RAG BOLT ASSEMBLY FOOTING DETAIL
SS5009	RAG BOLT REINFORCEMENT BAR – DEFORMED DETAILS
SS5010	OUTREACH ARMS
SS5011	CABLE PIT
SS5012	LED LUMINAIRE SWITCH PACK WIRING DIAGRAM
SS5013	LED LUMINARIE SWITCH PACK DETAILS
SS5014	MSB WITH TIME CONTROL WIRING DIAGRAM AND DETAILS
SS5015	MSB WITH NO TIME CONTROL WIRING DIAGRAM AND DETAILS

DRAWING No.	DEPARTMENT OF INFRASTRUCTURE, PLANNING & LOGISTICS STANDARD DRAWINGS
<u>DRAINAGE</u>	
CS-3100	GENERAL DRAINAGE NOTES AND APRON DETAILS
CS-3101	INSTALLATION, BEDDING AND FILLING/BACKFILLING AGAINST/OVER CULVERTS
CS-3102	RCP 375mm DIA. TO 675mm DIA. HEADWALL & WINGWALL DETAIL - NARROW CHANNELS
CS-3103	RCP 450mm DIA. TO 900mm DIA. HEADWALL & WINGWALL DETAILS 0 TO 20 SKEW ANGLE
CS-3104	RCP 450mm DIA. TO 900mm DIA. HEADWALL & WINGWALL DETAIL 21 TO 45 SKEW ANGLE
CS-3105	RCP 1050mm DIA. TO 1800mm DIA. HEADWALL & WINGWALL DETAILS 0 TO 20 SKEW ANGLE
CS-3106	RCP 1050mm DIA. TO 1800mm DIA. HEADWALL & WINGWALL DETAIL 21 TO 45 SKEW ANGLE
CS-3107	RCBC 450mm HIGH TO 1200mm HIGH HEADWALL & WINGWALL DETAILS 0 TO 20 SKEW ANGLE
CS-3108	RCBC 450mm HIGH TO 1200mm HIGH HEADWALL & WINGWALL DETAIL 21 TO 45 SKEW ANGLE
CS-3109	RCBC AND LINK SLABS ARRANGEMENT AND INSTALLATION OF PRECAST UNITS
CS-3110	RCBC AND LINK SLAB REINFORCED WING & HEADWALLS
CS-3111	RCBC AND LINK SLABS CONSTRUCTION OF BASES WITH NIBS AND APRONS
CS-3112	RCBC & LINK SLABS CONSTRUCTION OF BASES WITH RECESSES & APRONS
CS-3113	RCBC & LINK SLABS CROWN UNIT HOLDING DOWN ANCHORS
CS-3119	MANHOLES AND INLET PITS
CS-3120	CATCH DRAIN AND LETTER BOX PIT
CS-3123	GABION DROP STRUCTURE
<u>SAFETY BA</u>	<u>RRIERS</u>
CS-3200	STEEL BEAM GUARDRAIL (WITH FLARED TERMINALS)
KERBING, FENCING AND LANDSCAPING	
CS-3300	STANDARD KERB PROFILES
CS-3302	PRAM RAMPS, WITH AND WITHOUT TACTILE GROUND SURFACE INDICATOR (TGSI)
CS-3303	TACTILE GROUND SURFACE INDICATOR (TGSI) INSTALLATION DETAILS FOR BUS STOPS, ISLAND CROSSINGS, STAIRS, RAMPS AND DIRECTION CHANGE
CS-3305	VEHICLE BARRIER FENCING, WHEELCHAIR CROSSING FOR MEDIANS & INTERSECTION HOLD RAIL DETAILS
CS-3306	CYCLE/SHARED PATH CULVERT CROSSING FENCE DETAILS
CS-3307	PEDESTRIAN FENCE
CS-3308	1800mm SECURITY FENCE
CS-3311	ACCESS GATE DETAILS
TRAFFIC CO	NTROL DEVICES
CS-3400	LINE MARKING
ROAD FURN	ITURE AND SIGN
CS-3500	FLEXIBLE GUIDE POSTS
CS-3501	FLOOD GAUGE POSTS
CS-3503	SCHOOL ZONE SIGN DETAILS

1	REISSUED AS A STANDARD DRAWING	APR 23	KS	BYRNE
0	ISSUED AS A STANDARD DRAWING	AUG 20	KS	BYRNE
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY

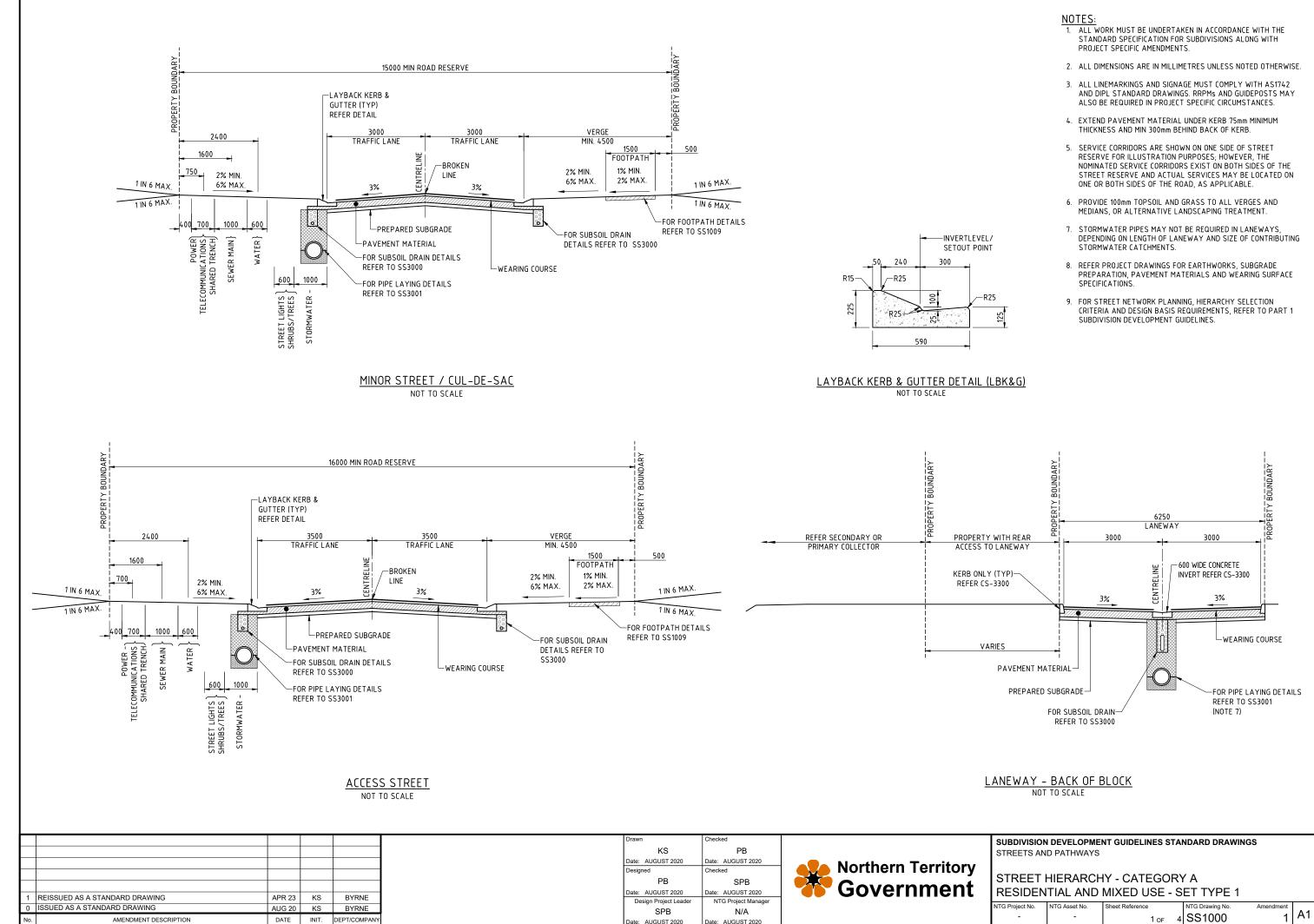
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KS	PB	
Date: AUGUST 2020	Date: AUGUST 2020	
Designed	Checked	
PB	SPB	
Date: AUGUST 2020	Date: AUGUST 2020	
Design Project Leader	NTG Project Manager	
SPB	N/A	
Date: AUGUST 2020	Date: AUGUST 2020	

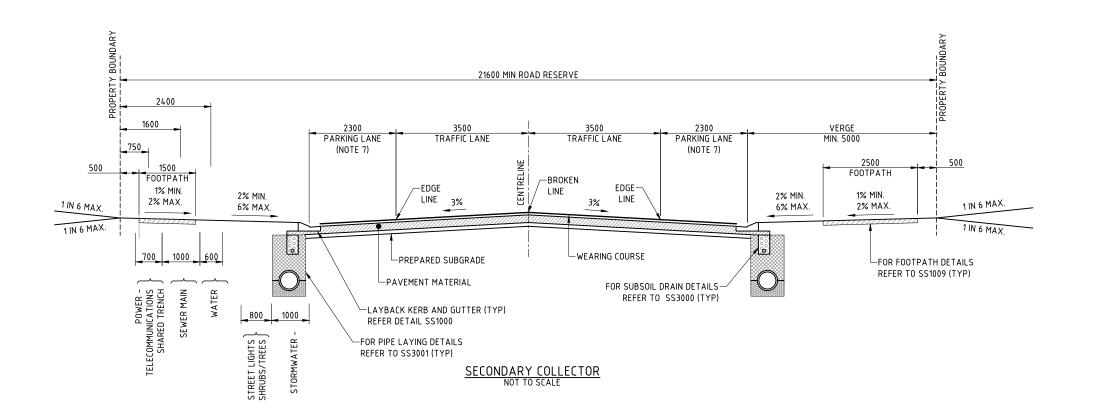


SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS	
CENEDAL	

SCHEDULE	OF DRAWINGS

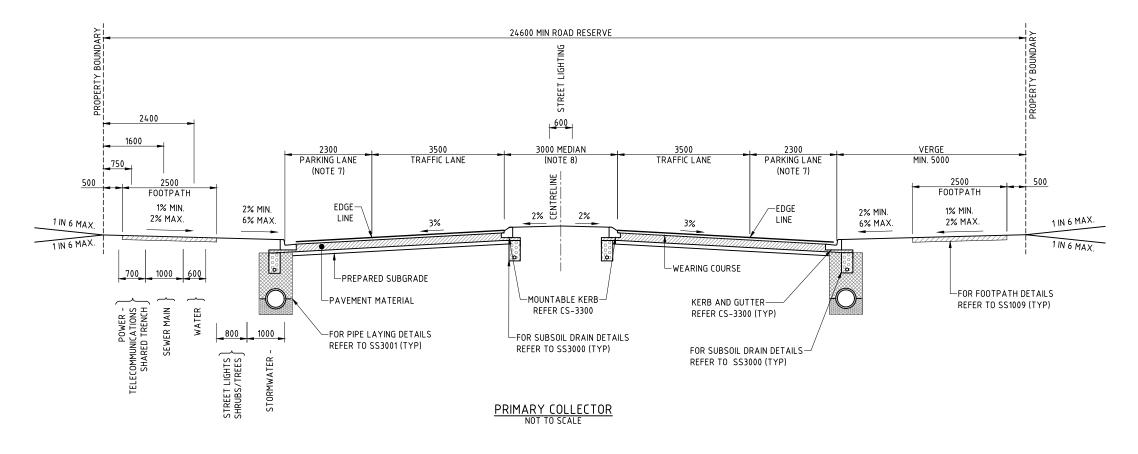
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NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.		
-	-	1 of 1	SS0000		





NOTES

- ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.
- 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LINEMARKINGS AND SIGNAGE MUST COMPLY WITH AS1742 AND DIPL STANDARD DRAWINGS. RRPMs AND GUIDEPOSTS MAY ALSO BE REQUIRED IN PROJECT SPECIFIC CIRCUMSTANCES.
- EXTEND PAVEMENT UNDER KERB 75mm MINIMUM THICKNESS AND MIN 300MM BEHIND BACK OF KERB.
- 5. SERVICE CORRIDORS ARE SHOWN ON ONE SIDE OF STREET RESERVE FOR ILLUSTRATION PURPOSES; HOWEVER, THE NOMINATED SERVICE CORRIDORS EXIST ON BOTH SIDES OF THE STREET RESERVE AND ACTUAL SERVICES MAY BE LOCATED ON ONE OR BOTH SIDES OF THE ROAD, AS APPLICABLE.
- PROVIDE 100mm TOPSOIL AND GRASS TO ALL VERGES AND MEDIANS, OR ALTERNATIVE LANDSCAPING TREATMENT.
- 7. PROVIDE BULB OUTS IN PARKING LANES AT MAX 100m CENTRES.
- 8. MEDIANS MAY ALTERNATIVELY BE INVERTED WITH STORMWATER DRAINAGE INFRASTRUCTURE.
- REFER PROJECT DRAWINGS FOR EARTHWORKS, SUBGRADE PREPARATION, PAVEMENT MATERIALS AND WEARING SURFACE SPECIFICATIONS.
- 10. FOR STREET NETWORK PLANNING, HIERARCHY SELECTION CRITERIA AND DESIGN BASIS REQUIREMENTS, REFER TO PART 1 SUBDIVISION DEVELOPMENT GUIDELINES.



1 REISSUED AS A STANDARD DRAWING APR 23 KS BYRNE
0 ISSUED AS A STANDARD DRAWING AUG 20 KS BYRNE

DATE

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AMENDMENT DESCRIPTION



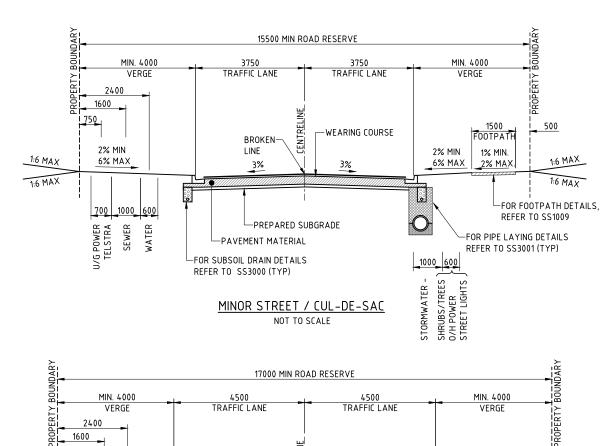
SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS
STREETS AND PATHWAYS

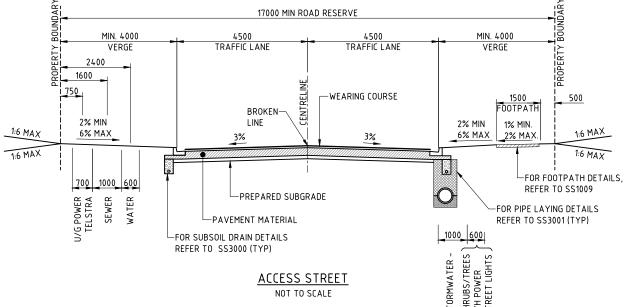
STREET HIERARCHY - CATEGORY A

2 of

RESIDENTIAL AND MIXED USE - SET TYPE 1

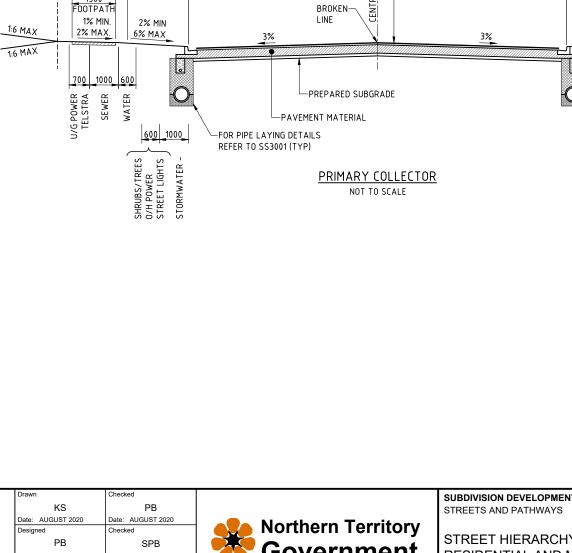
NTG Project No. | NTG Asset No. | Sheet Reference | NTG Drawing No.





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- 4. EXTEND PAVEMENT MATERIAL UNDER KERB MINIMUM 75mm THICKNESS AND MINIMUM 300mm BEHIND BACK OF
- 5. SERVICE CORRIDORS ARE SHOWN ON ONE SIDE OF STREET RESERVE FOR ILLUSTRATION PURPOSES; HOWEVER, THE NOMINATED SERVICE CORRIDORS EXIST ON BOTH SIDES OF THE STREET RESERVE AND ACTUAL SERVICES MAY BE LOCATED ON ONE OR BOTH SIDES OF THE ROAD, AS APPLICABLE.
- 6. PROVIDE 100mm TOPSOIL AND GRASS TO ALL VERGES AND MEDIANS, OR ALTERNATIVE LANDSCAPING
- 7. REFER PROJECT DRAWINGS FOR EARTHWORKS, SUBGRADE PREPARATION, PAVEMENT MATERIALS AND WEARING SURFACE SPECIFICATIONS
- FOR STREET NETWORK PLANNING, HIERARCHY SELECTION CRITERIA AND DESIGN BASIS REQUIREMENTS, REFER TO PART 1 SUBDIVISION DEVELOPMENT GUIDELINES.



20000 MIN ROAD RESERVE

5500 TRAFFIC LANE

6500 TRAFFIC LANE

-WEARING COURSE

-WEARING COURSE

MIN. 4500

VERGE

3000 FOOTPATH

2% MAX.

500

1:6 MAX

1:6 MAX

500

–FOR FOOTPATH DETAILS,

REFER TO SS1009

FOR SUBSOIL DRAIN DETAILS

REFER TO SS3000 (TYP)

1:6 MAX

1:6 MAX

-FOR FOOTPATH DETAILS,

REFER TO SS1009

FOR SUBSOIL DRAIN DETAILS

REFER TO SS3000 (TYP)

MIN 4500

VERGE

FOOTPATH

1% MIN

2% MAX.

5500 TRAFFIC LANE

BROKEN-

-PREPARED SUBGRADE

SECONDARY COLLECTOR

NOT TO SCALE

22000 MIN ROAD RESERVE

LINE

-PAVEMENT MATERIAL

FOR PIPE LAYING DETAILS

REFER TO SS3001 (TYP)

6500 TRAFFIC LANE

MIN. 4500

VERGE

2% MIN

6% MAX

600 1000

2400 1600 750

1500 FOOTPATH

1% MIN.

2% MAX.

700 1000

SEWER

MIN 4500

VERGE

2400

1600 750

1:6 MAX

1:6 MAX

1	REISSUED AS A STANDARD DRAWING	APR 23	KS	BYRNE
0	ISSUED AS A STANDARD DRAWING	AUG 20	KS	BYRNE
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY

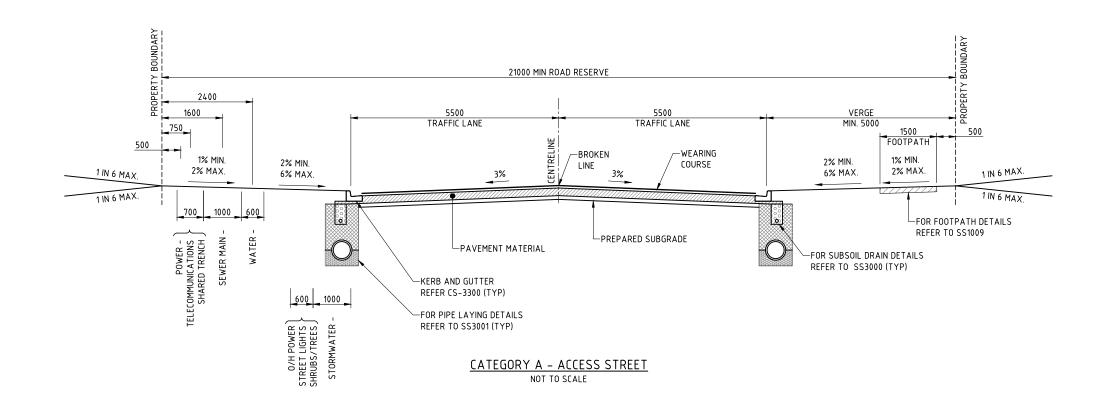
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KS	PB	
Date: AUGUST 2020	Date: AUGUST 2020	
Designed	Checked	
PB	SPB	
Date: AUGUST 2020	Date: AUGUST 2020	
Design Project Leader	NTG Project Manager	
SPB	N/A	
Date: AUGUST 2020	Date: AUGUST 2020	

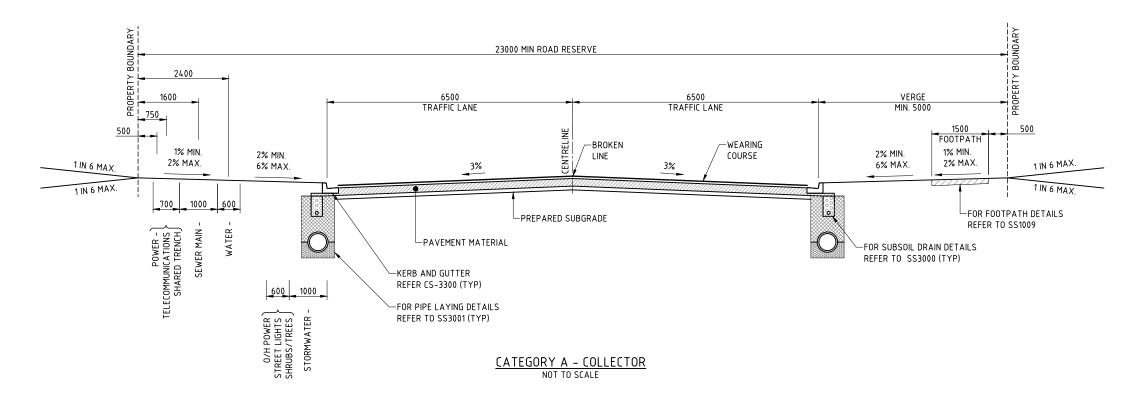


SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS

STREET HIERARCHY - CATEGORY A RESIDENTIAL AND MIXED USE - SET TYPE 2

NTG Project No. NTG Asset No. NTG Drawing No Α1 4 SS1002 3 of





REISSUED AS A STANDARD DRAWING

AMENDMENT DESCRIPTION

0 ISSUED AS A STANDARD DRAWING

KS

BYRNE

KS BYRNE

INIT. DEPT/COMPAN

KS

PB

Date: AUGUST 2020

Date: AUGUST 2020

e: AUGUST 2020

PB

Northern Territory
Government

ate: AUGUST 2020

ate: AUGUST 2020

ate: AUGUST 2020

N/A

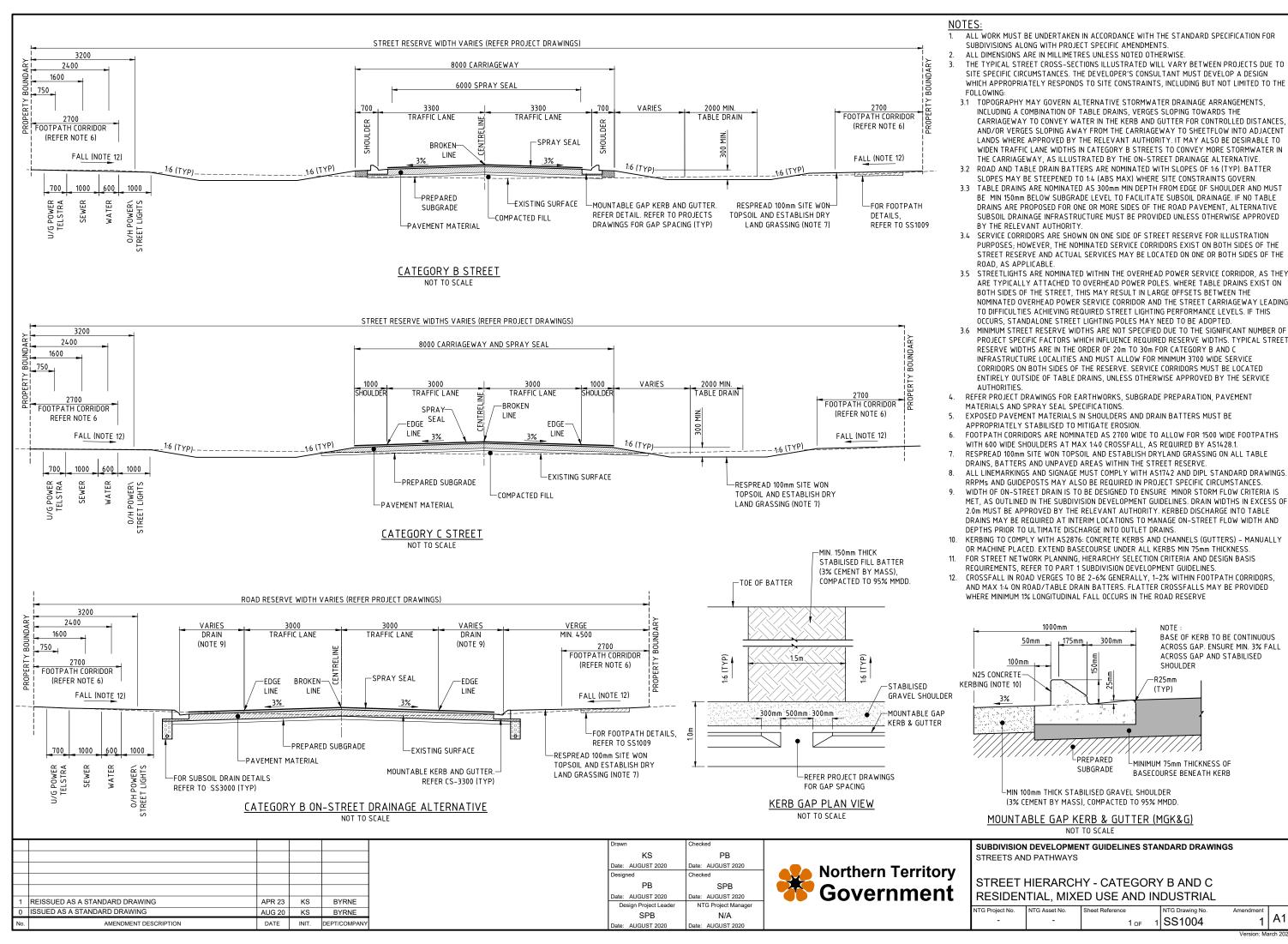
- 1. ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.
- 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 3. ALL LINEMARKINGS AND SIGNAGE MUST COMPLY WITH AS1742 AND DIPL STANDARD DRAWINGS. RRPMs AND GUIDEPOSTS MAY ALSO BE REQUIRED IN PROJECT SPECIFIC CIRCUMSTANCES.
- 4. EXTEND PAVEMENT UNDER KERB 75mm MINIMUM THICKNESS AND MIN 300mm BEHIND BACK OF KERB.
- 5. SERVICE CORRIDORS ARE SHOWN ON ONE SIDE OF STREET RESERVE FOR ILLUSTRATION PURPOSES; HOWEVER, THE NOMINATED SERVICE CORRIDORS EXIST ON BOTH SIDES OF THE STREET RESERVE AND ACTUAL SERVICES MAY BE LOCATED ON ONE OR BOTH SIDES OF THE ROAD, AS APPLICABLE.
- 6. PROVIDE 100mm TOPSOIL AND GRASS TO ALL VERGES AND MEDIANS, OR ALTERNATIVE LANDSCAPING TREATMENT.
- 7. REFER PROJECT DRAWINGS FOR EARTHWORKS, SUBGRADE PREPARATION, PAVEMENT MATERIALS AND WEARING SURFACE SPECIFICATIONS.
- 8. FOR STREET NETWORK PLANNING, HIERARCHY SELECTION CRITERIA AND DESIGN BASIS REQUIREMENTS, REFER TO PART 1 SUBDIVISION DEVELOPMENT GUIDELINES.

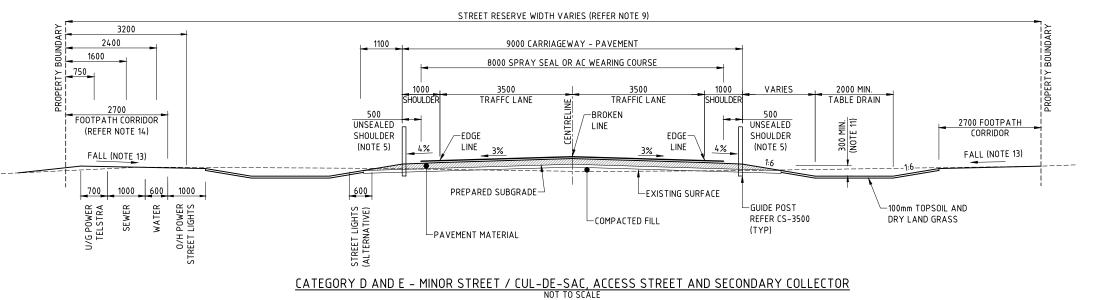
SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS STREETS AND PATHWAYS

STREET HIERARCHY - CATEGORY A

INDUSTRIAL - SET TYPE 1

NTG Project No. 4 SS1003 4 of



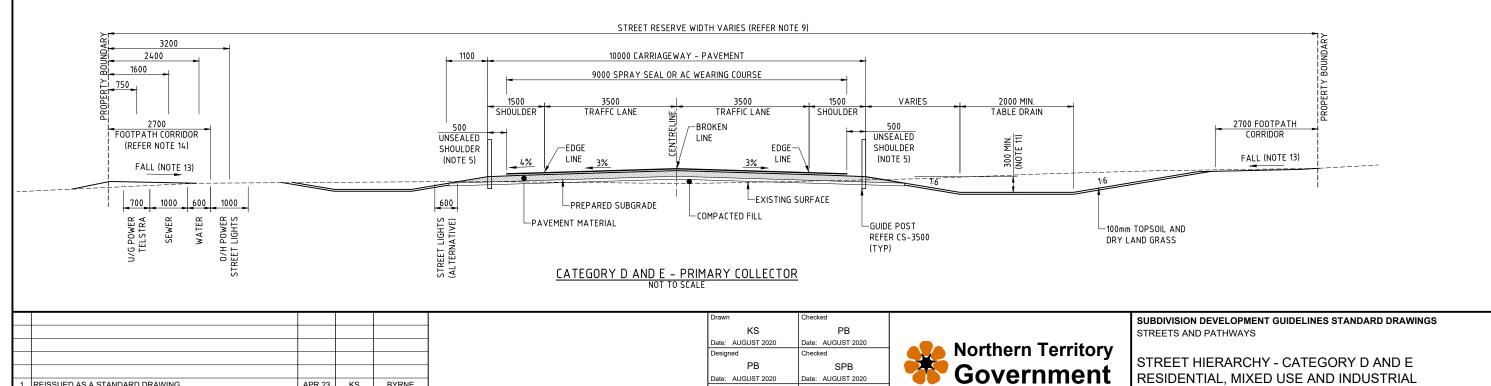


NTG Project No.

- 1. ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC
- 2. ALL LINEMARKINGS AND SIGNAGES SHALL COMPLY WITH AS1742. 3. RRPM'S TO BE USED TO SUPPLEMENT LINE MARKING. COMPLY WITH
- BATTER SLOPES MAY BE STEEPENED TO 1 IN 4 WHERE 1 IN 6 IS IMPRACTICAL, SUBJECT TO APPROVAL BY THE RELEVANT AUTHORITY.
- 5. APPLY 1.2L/m² PRIME ON UNSEALED SHOULDERS. WHERE FINE CRUSHED ROCK (FCR) IS USED, ADDITIONAL EROSION PROTECTION MEASURES MUST BE PROVIDED TO MITIGATE UNRAVELING OF EXPOSED FCR IN SHOULDERS AND BATTERS.
- 6. TOPSOIL AND DRYLAND GRASSING MUST BE ESTABLISHED ON ALL TABLE DRAINS, BATTERS AND UNPAVED AREAS WITHIN THE ROAD
- 7. SERVICE CORRIDORS ARE SHOWN ON ONE SIDE OF THE ROAD RESERVE FOR ILLUSTRATION PURPOSES. THE NOMINATED SERVICE CORRIDORS EXIST ON BOTH SIDES OF THE ROAD RESERVE AND ACTUAL SERVICES MAY BE LOCATED ON ONE OR BOTH SIDES OF THE ROAD, AS APPLICABLE.
- 8. CROSS FALL VARIES WHERE SUPERELEVATION REQUIRED.
- 9. STREET RESERVE WIDTHS MUST BE EQUAL TO OR GREATER THAN THE MINIMUM VALUES NOMINATED IN TABLE 1. STREET RESERVE WIDTHS MUST BE APPROPRIATELY SIZED TO ACCOMMODATE TABLE DRAINS AND SEPARATE SERVICE CORRIDORS/FOOTPATH CORRIDORS.
- 10. RESERVE WIDTHS ARE MINIMUM VALUES AND MAY NEED TO BE INCREASED TO FIT TABLE DRAINS WITHIN STREET RESERVES.
- 11. TABLE DRAIN INVERTS MUST BE MIN 150mm BELOW SUBGRADE LEVEL TO FACILITATE SUBSOIL DRAINAGE. IF NO TABLE DRAINS ARE PROPOSED FOR ONE OR MORE SIDES OF THE ROAD PAVEMENT, SUBJECT TO APPROVAL BY THE RELEVANT AUTHORITY, ALTERNATIVE SUBSOIL DRAINAGE INFRASTRUCTURE MUST BE PROVIDED.
- 12. FOR STREET NETWORK PLANNING, HIERARCHY SELECTION CRITERIA AND DESIGN BASIS REQUIREMENTS, REFER TO PART 1 SUBDIVISION DEVELOPMENT GUIDELINES.
- 13. CROSSFALL IN ROAD VERGES TO BE 2-6% GENERALLY, 1-2% WITHIN FOOTPATH CORRIDORS, AND MAX 1:4 ON ROAD/TABLE DRAIN BATTERS. FLATTER CROSSFALLS MAY BE PROVIDED WHERE MINIMUM 1% LONGITUDINAL FALL OCCURS IN THE ROAD RESERVE
- 14. FOOTPATH CORRIDORS ARE NOMINATED AS 2700 WIDE TO ALLOW FOR 1500 WIDE FOOTPATHS WITH 600 WIDE SHOULDERS AT MAX 1:40 CROSSFALL, AS REQUIRED BY AS1428.1.

TABLE 1 (REFER NOTE 9)

STREET HIERARCHY	MINIMUM STREET RESERVE WIDTH (m)
MINOR STREET / CUL-DE-SAC	20
ACCESS STREET	22
SECONDARY COLLECTOR	25
PRIMARY COLLECTOR	30



Date: AUGUST 2020

AUGUST 2020

REISSUED AS A STANDARD DRAWING

AMENDMENT DESCRIPTION

ISSUED AS A STANDARD DRAWING

BYRNE

BYRNE

INIT. DEPT/COMPAN

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DATE

ate: AUGUST 2020

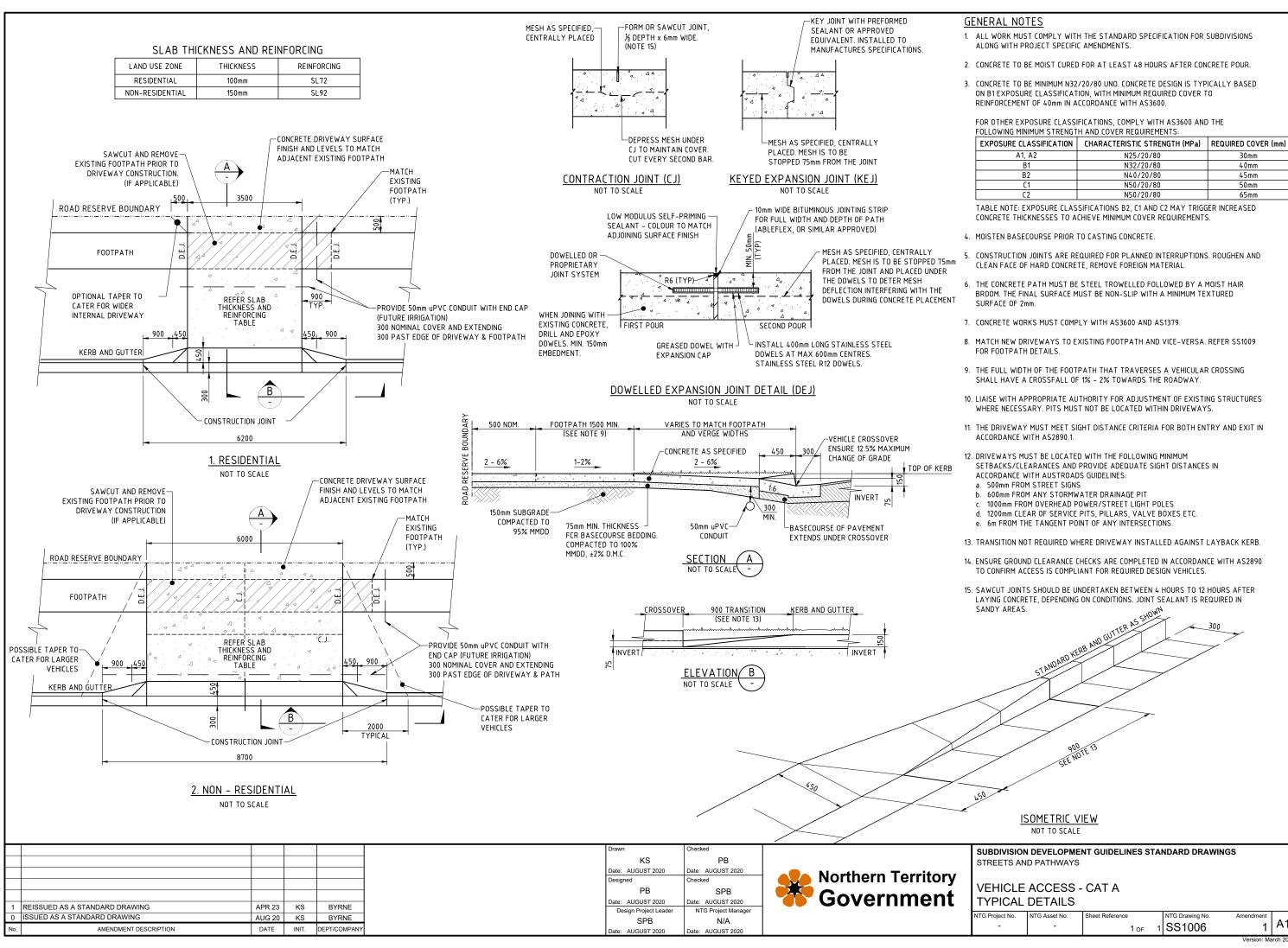
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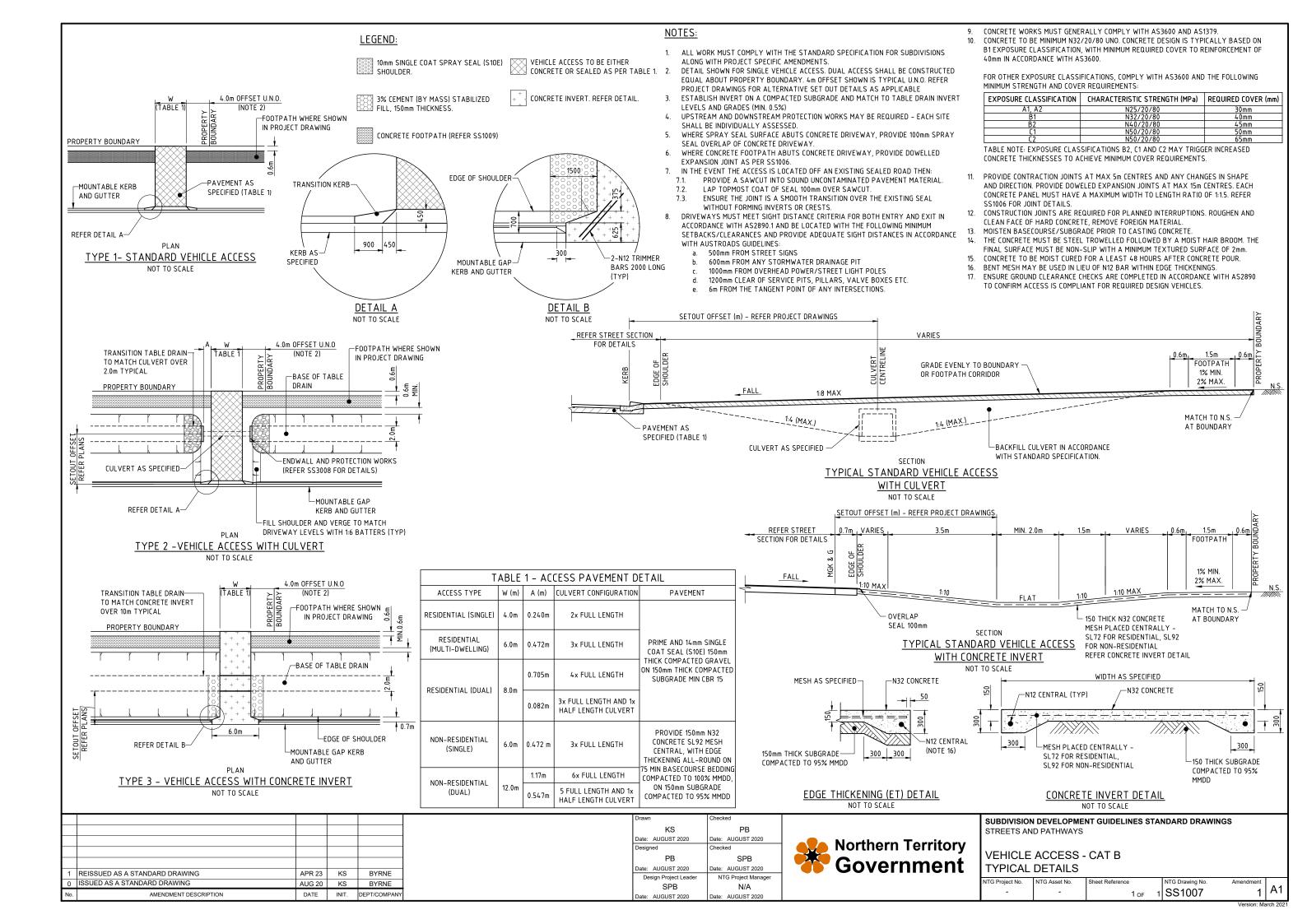
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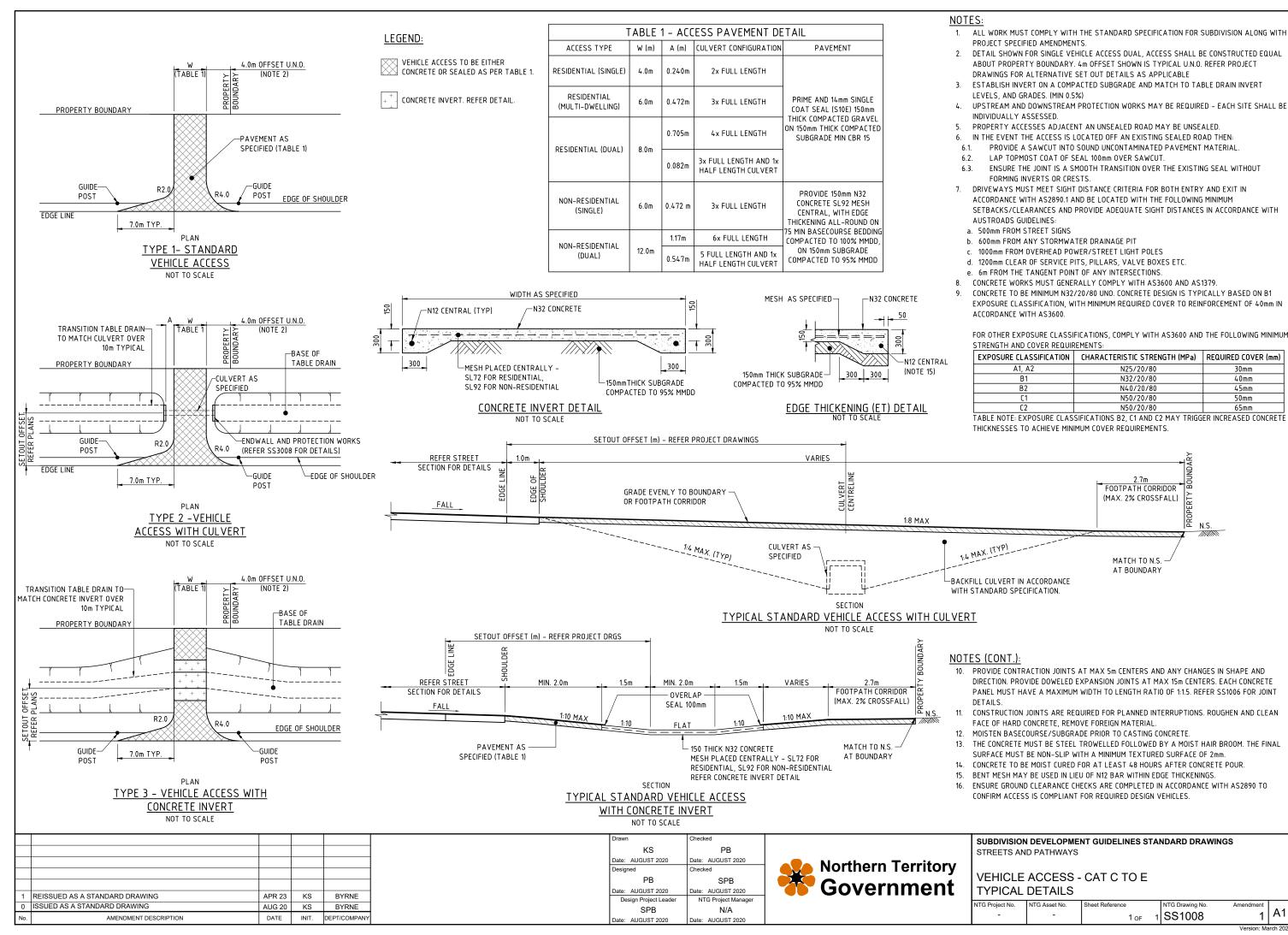
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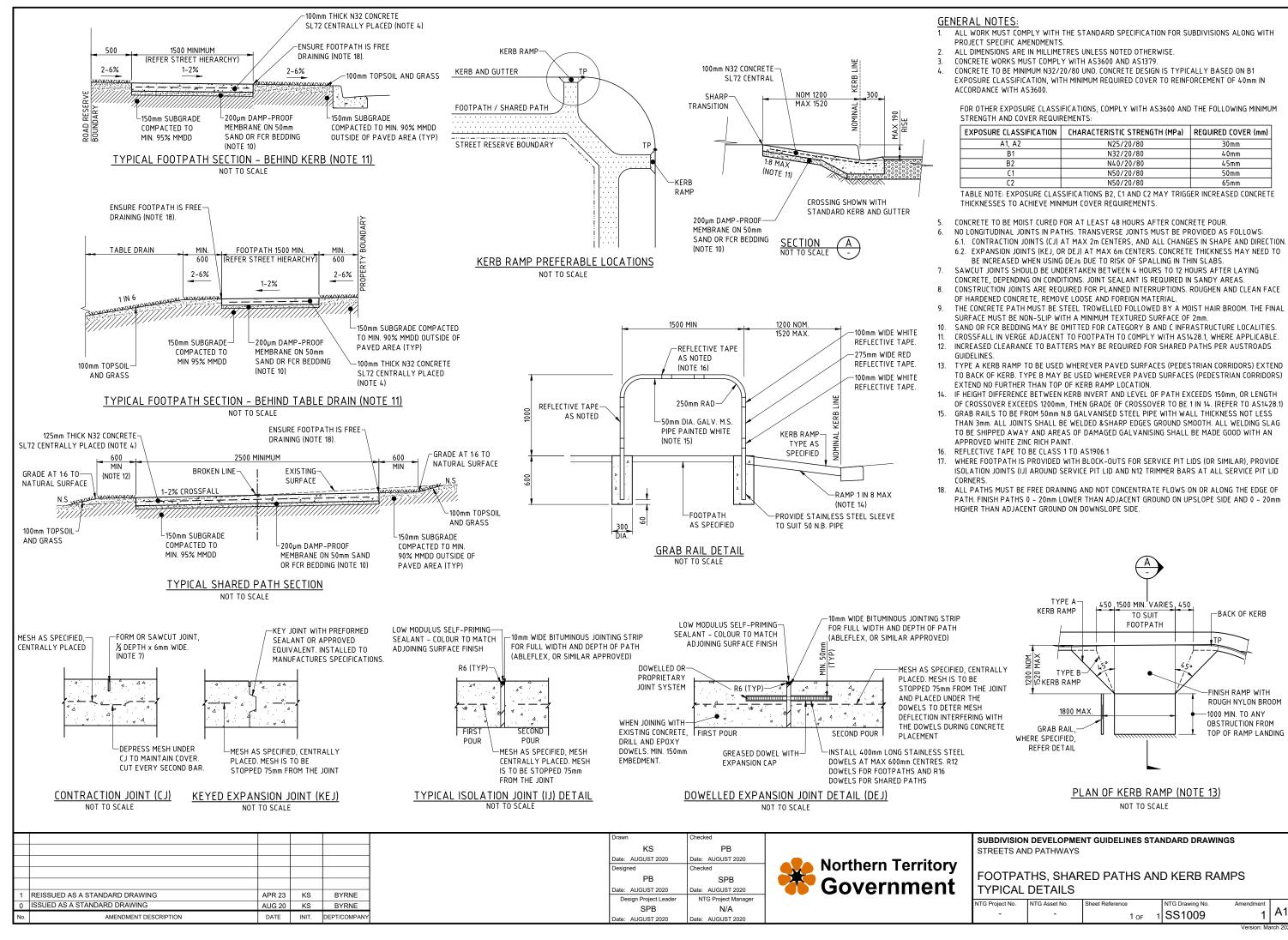
1 SS1005

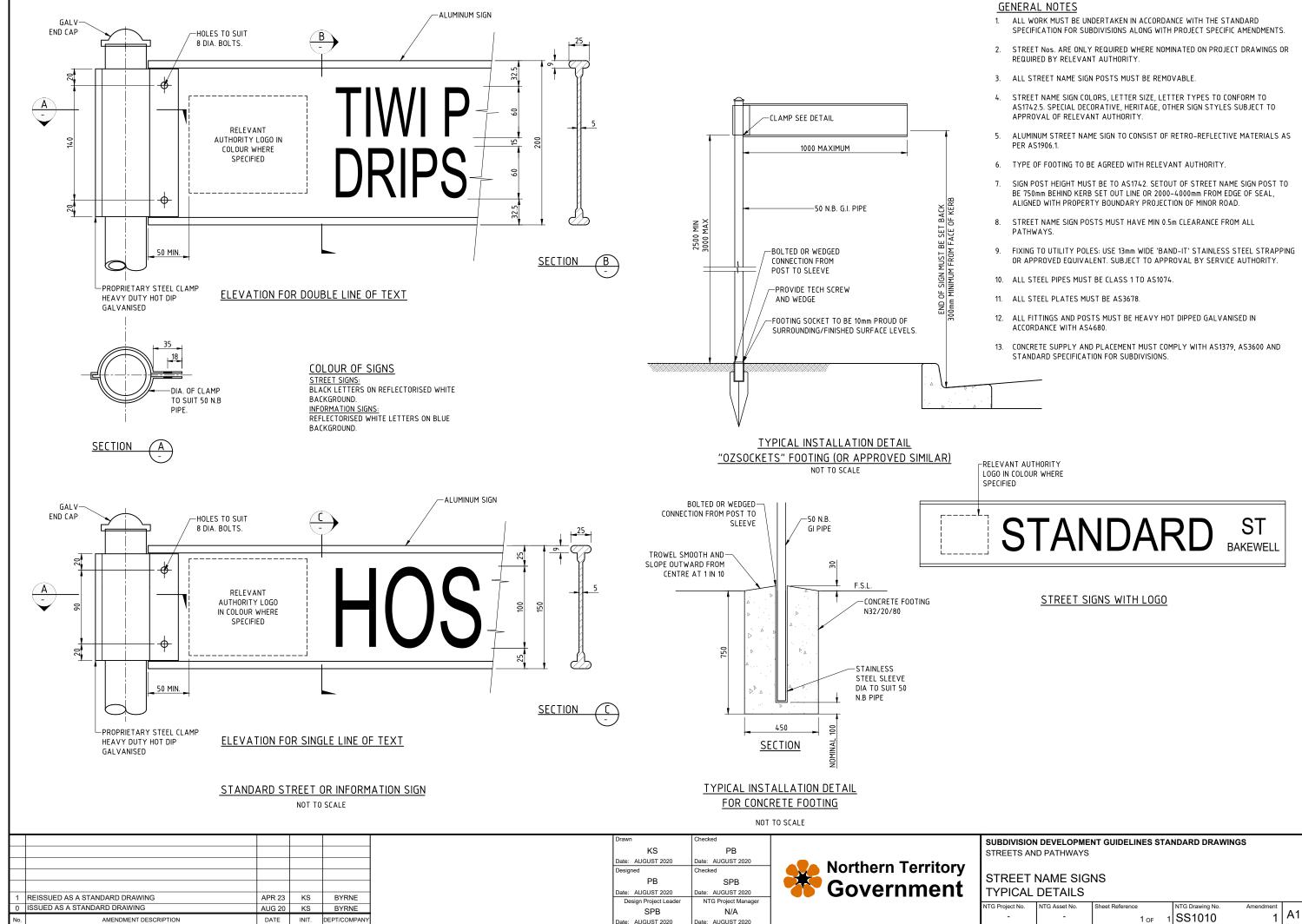
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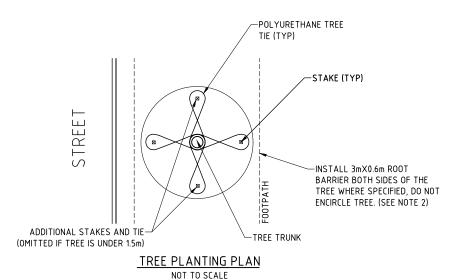


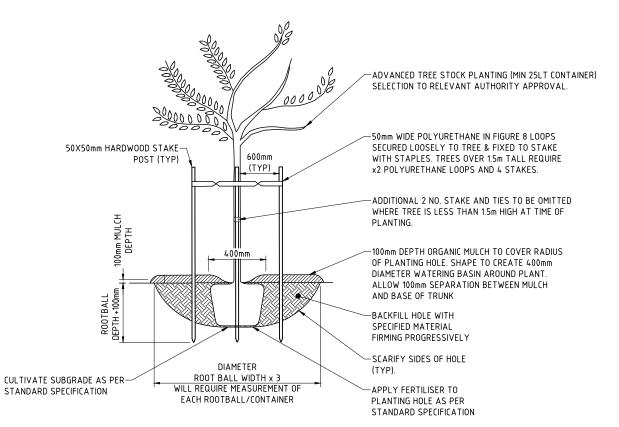












TREE PLANTING ELEVATION NOT TO SCALE

KS

AUG 20 KS BYRNE

APR 23

BYRNE

INIT. DEPT/COMPANY

1 REISSUED AS A STANDARD DRAWING

AMENDMENT DESCRIPTION

0 ISSUED AS A STANDARD DRAWING

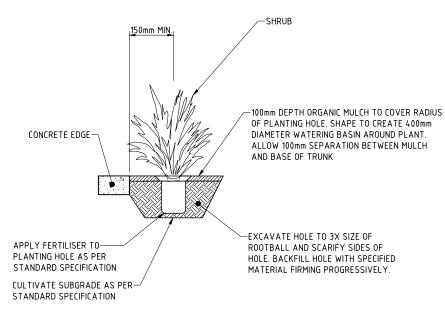
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SPB



NOTES:

- ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH
 THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG
 WITH SPECIFIC AMENDMENTS.
- WHERE TREES ARE LOCATED LESS THAN 3m FROM BUILT INFRASTRUCTURE (ROADS, PATHWAYS, SHELTERS, BUILDING ETC.), OR 1m FROM SERVICES, ROOT BARRIERS MUST BE INSTALLED. EXISTING NATIVE TREES MAY REQUIRE GREATER DISTANCES IN ACCORDANCE WITH AS4970.
- 3. REFER PROJECT LANDSCAPING AND IRRIGATION DESIGN DRAWINGS FOR FURTHER DETAILS.



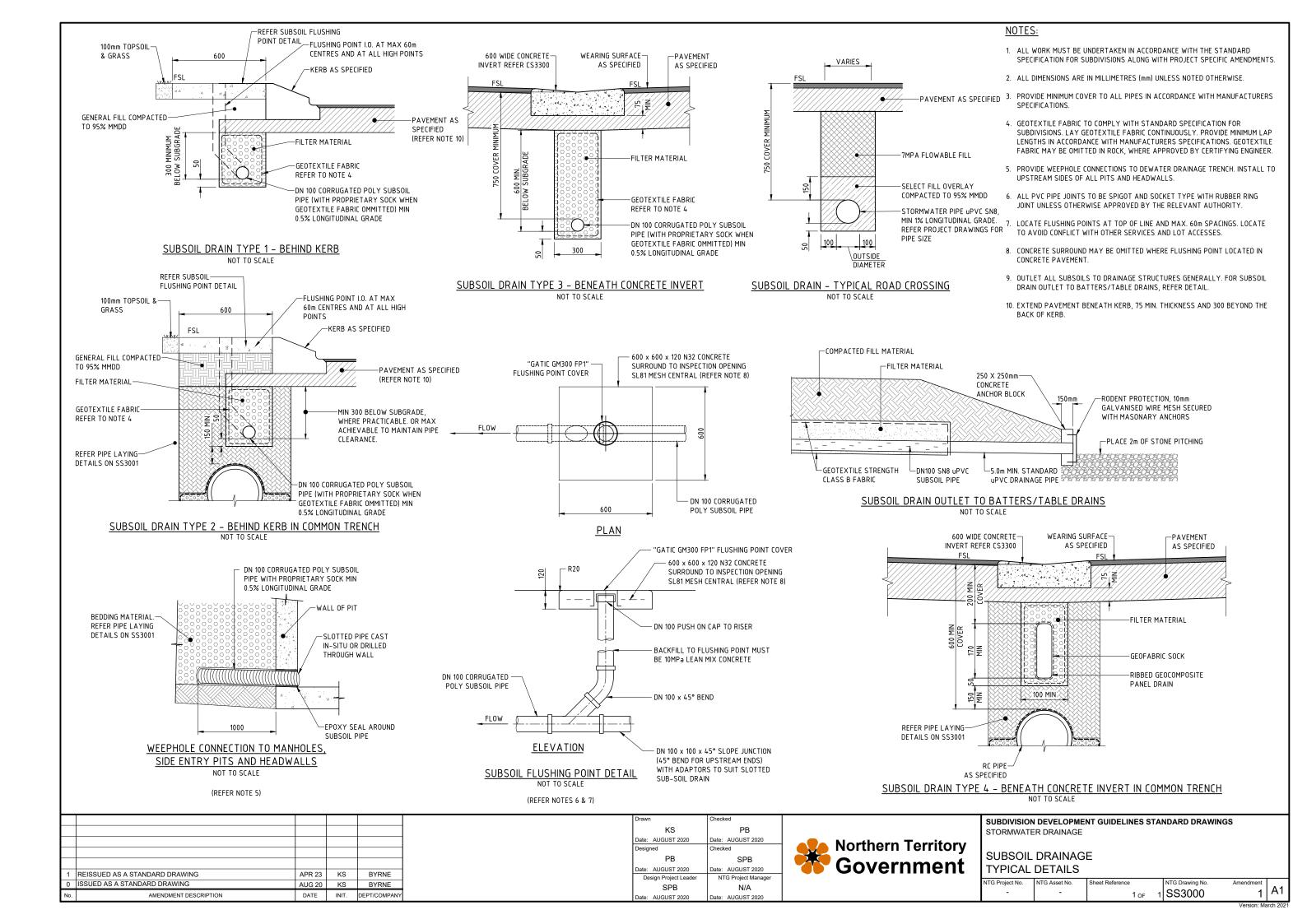
SHRUB PLANTING DETAIL NOT TO SCALE

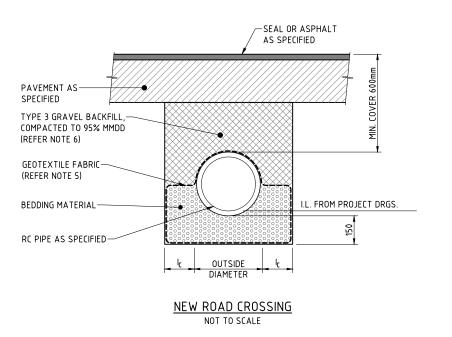
300mm DEEP TOPSOIL 150×150mm TO GARDEN BED. 100mm TOPSOIL AND-CONCRETE EDGE FINISHED SURFACE GRASS 20mm BELOW TOP OF FINISHED 20 BELOW CONCRETE EGDE. TOP OF CONCRETE R25 R25 EDGE 300mm DEEP CULTIVATED SUBGRADE. 150mm DEEP-CULTIVATED SUBGRADE. COMPACTED-SUBGRADE

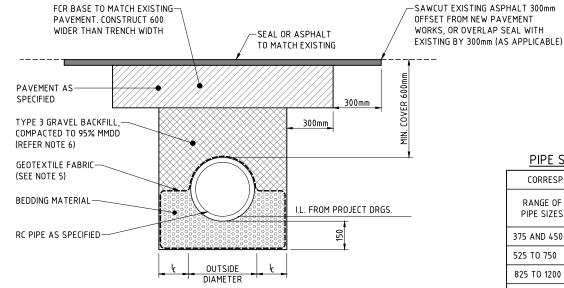
GARDEN BED TO GRASS TYPICAL DETAIL NOT TO SCALE

SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS
PUBLIC OPEN SPACE AND LANDSCAPING

PLANTING







EXISTING ROAD CROSSING NOT TO SCALE (REFER NOTE 8)

PIPE SETOUT TABLE

	CORRESPONDING PIPE SIZES				
	RANGE OF PIPE SIZES	BACK OF KERB OFFSET TO PIPE C.L.			
525 TO 75	375 AND 450	240 BEHIND			
	525 TO 750	110 BEHIND			
	825 TO 1200	150 IN FRONT			
	1350 TO 1650	375 IN FRONT			
	1800 TO 2100	675 IN FRONT			

NOTES:

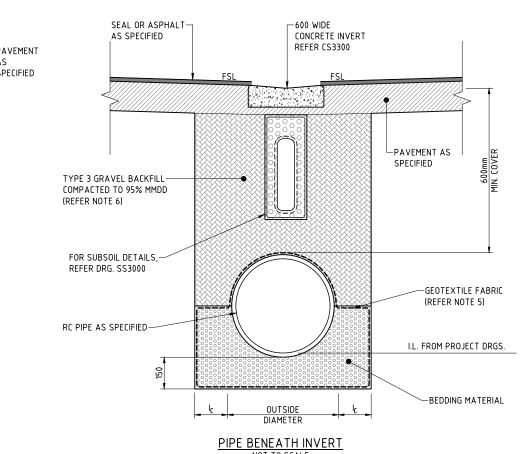
- 1. ALL WORK MUST BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.
- 2. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 3. DETAILS REFLECT STORMWATER PIPES ONLY. FOR ALL OTHER SERVICES, REFER TO RELEVANT AUTHORITY TECHNICAL REQUIREMENTS.
- 4. PROVIDE MINIMUM COVER TO PIPES IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
- 5. GEOTEXTILE FABRIC TO COMPLY WITH STANDARD SPECIFICATION FOR SUBDIVISIONS. LAY GEOTEXTILE FABRIC CONTINUOUSLY. PROVIDE MINIMUM LAP LENGTHS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. GEOTEXTILE FABRIC MAY BE OMMITTED IN ROCK, WHERE APPROVED BY CERTIFYING ENGINEER.
- 6. STABILISE ALL BACKFILL WITH 2% CEMENT BY MASS AND COMPACT TO 95% RELATIVE COMPACTION WHERE THE TRENCH OR EMBANKMENT IS LOCATED, OR WILL BE LOCATED. BENEATH A PAVEMENT
- 7. FLOWABLE FILL MAY BE USED AS AN ALTERNATIVE BACKFILL, WHERE APPROVED BY THE RELEVANT AUTHORITY.
- 8. TRENCHING MUST ONLY BE USED FOR EXISTING ROAD CROSSINGS WHERE APPROVAL IS OBTAINED FROM THE RELEVANT AUTHORITY.

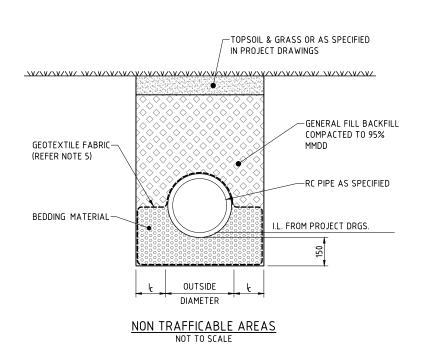
TRENCH WIDTH PARAMETERS TABLE

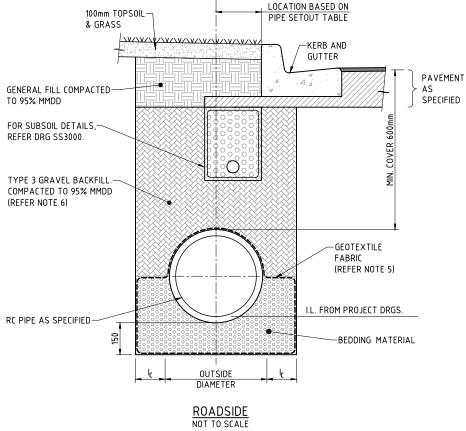
NOMINAL PIPE	MINIMUM I / N	SPACING BETWEEN
DIAMETER DN	MINIMUM I _C (mm)	MULTIPLE CULVERTS (mm)
≤600	150	300
600-1200	200	600
1200-1800	D/6	600
>1800	D/6	900

TABLE NOTES:

- THE MINIMUM VALUES SHOULD ONLY BE USED WHEN NECESSARY COMPACTION BETWEEN THE PIPES CAN BE ASSURED.
- 2. MINIMUM VALUES MAY NEED TO BE INCREASED FOR RUBBER RING JOINT PIPES TO ENSURE MIN. 50mm SEPARATION BETWEEN SOCKETS.







REISSUED AS A STANDARD DRAWING KS BYRNE ISSUED AS A STANDARD DRAWING KS BYRNE AMENDMENT DESCRIPTION DATE INIT. DEPT/COMPAN

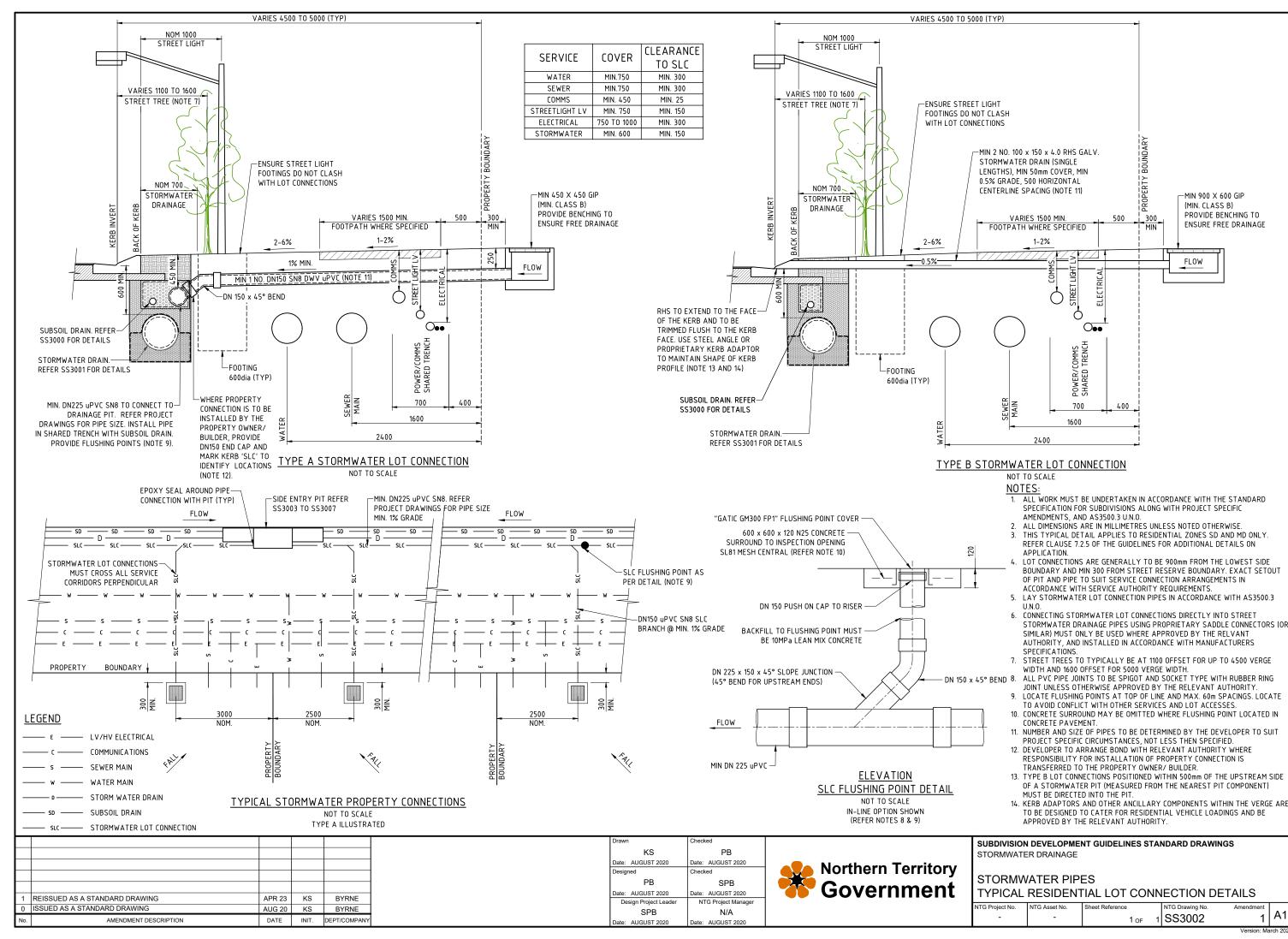
KS PB Date: AUGUST 2020 ate: AUGUST 2020 PB SPB ate: AUGUST 2020 Date: AUGUST 2020 N/A e: AUGUST 2020 ate: AUGUST 2020

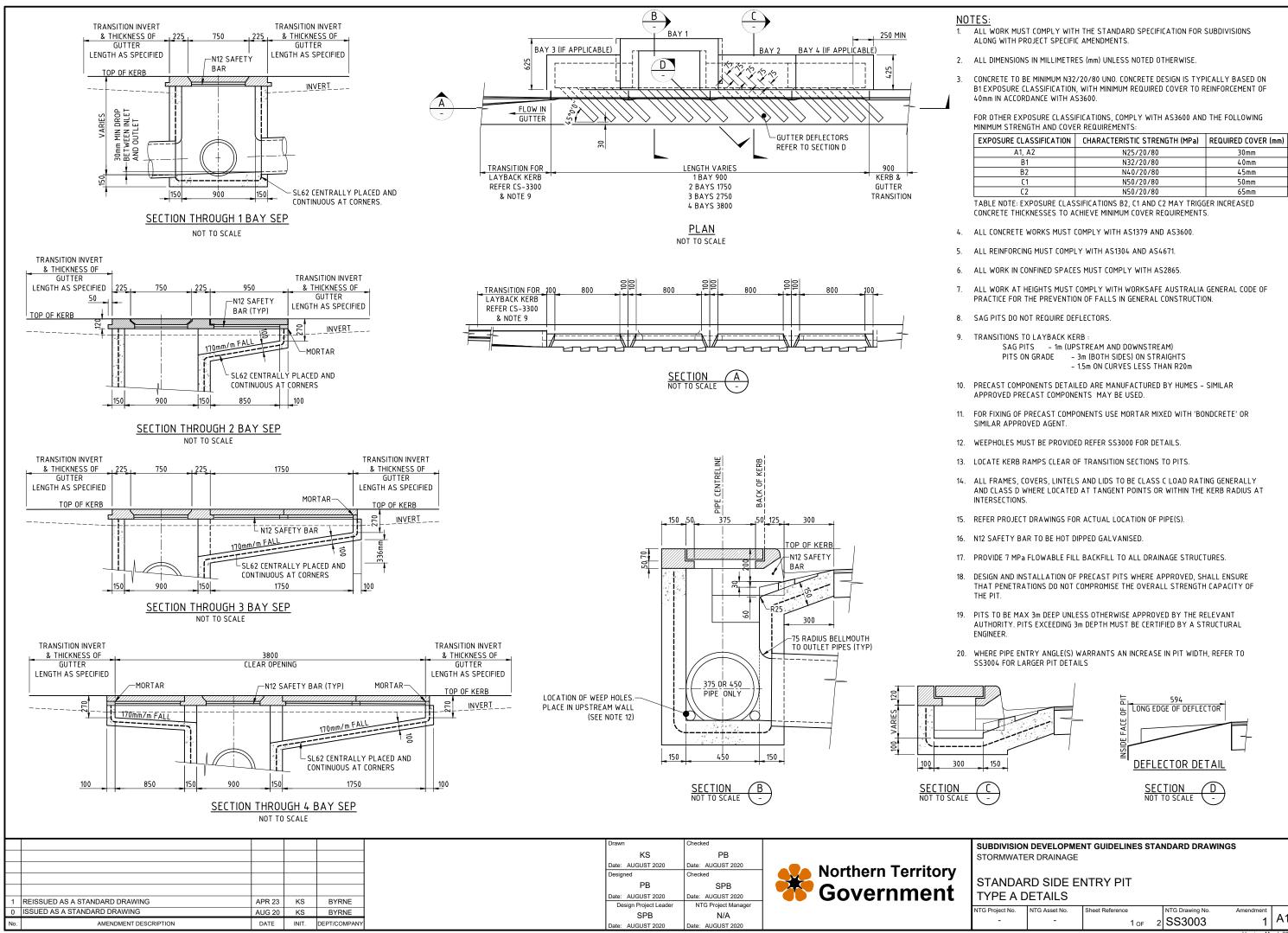


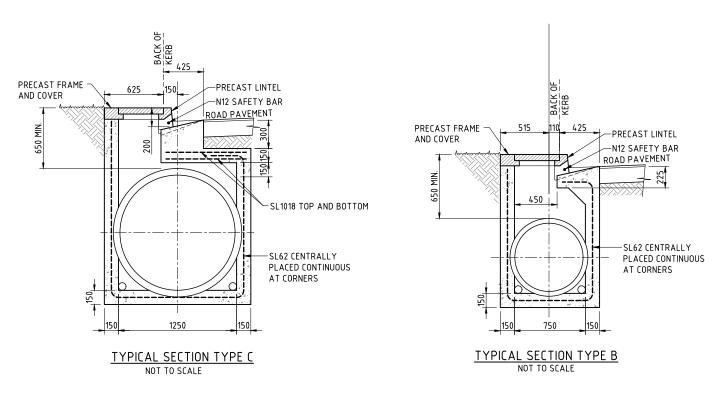
SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS STORMWATER DRAINAGE

STORMWATER PIPES TYPICAL TRENCH DETAILS

NTG Project No. NTG Drawing No Α1 SS3001 1 of

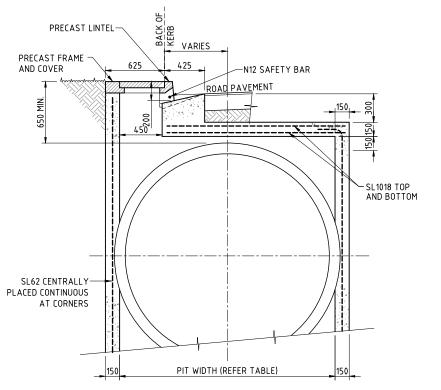




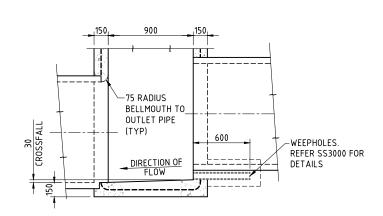


TABLE

PIT TYPES AND CORRESPONDING PIPE SIZES						
PIT TYPE	RANGE OF PIPE SIZES	BACK OF KERB OFFSET TO PIPE C.L. PI				
Α	375 AND 450	REFER TO SS3003				
В	525 TO 750	110 BEHIND	770			
С	825 TO 1200	150 IN FRONT	1250			
D	1350 TO 1650	375 IN FRONT	1700			
E	1800 TO 2100	675 IN FRONT	2150			
LENGTH OF ALL PITS AS DETAILED = 900						



TYPICAL SECTION TYPE D-E NOT TO SCALE



TYPICAL SECTION ALONG GRADE NOT TO SCALE

1	REISSUED AS A STANDARD DRAWING	APR 23	KS	BYRNE	
0	ISSUED AS A STANDARD DRAWING	AUG 20	KS	BYRNE	1
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY	

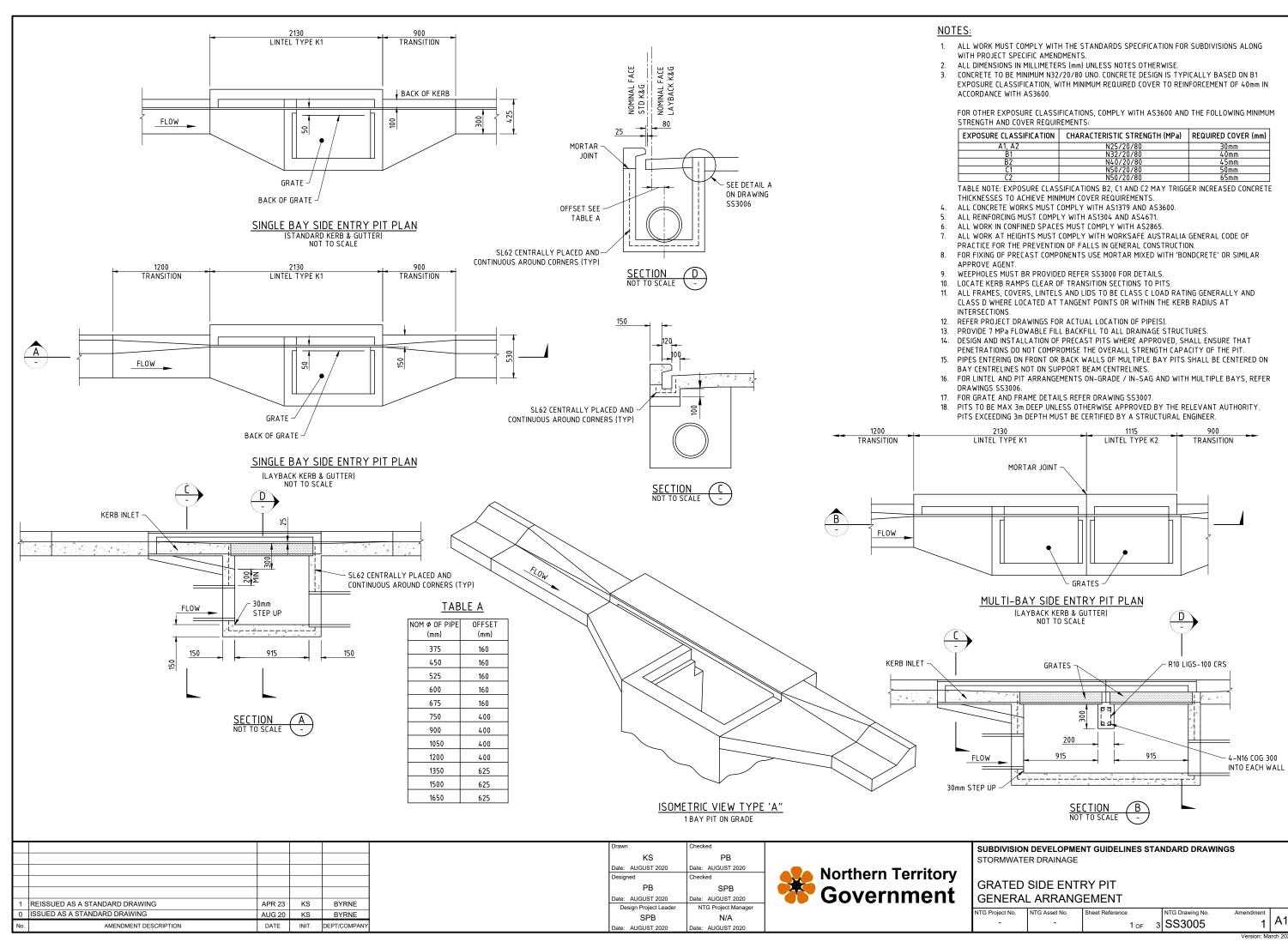
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KS	РВ		
Date: AUGUST 2020	Date: AUGUST 2020		
Designed	Checked		
PB	SPB		
Date: AUGUST 2020	Date: AUGUST 2020		
Design Project Leader	NTG Project Manager		
SPB	N/A		
Date: AUGUST 2020	Date: AUGUST 2020		



SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS
STORMWATER DRAINAGE

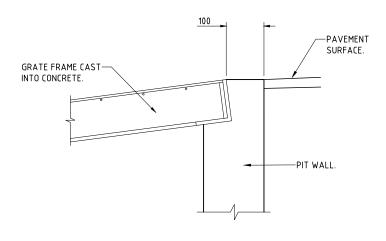
STANDARD SIDE ENTRY PIT

STANDAND SIDE LITTER FIT	
TYPE B TO E DETAILS	

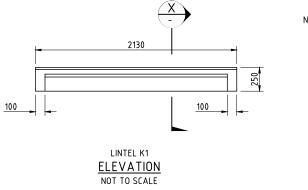


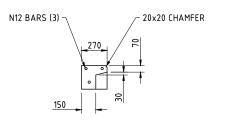


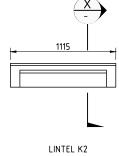
REFER SS3005 FOR NOTES.



DETAIL A REFER SS3005

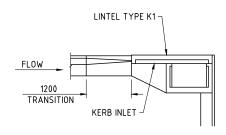




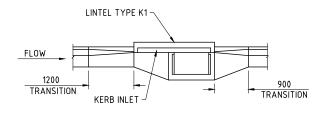


<u>SECTION</u>

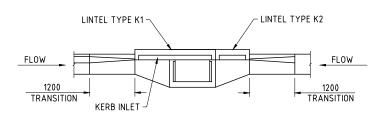




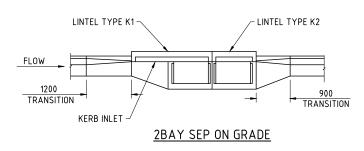
1BAY CORNER SEP

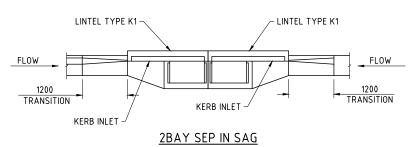


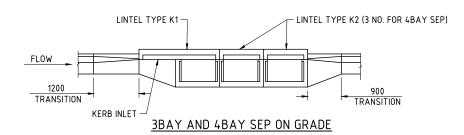
1BAY SEP ON GRADE

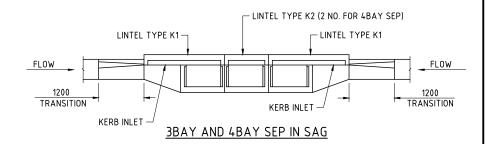


1BAY SEP IN SAG









PIT ARRANGEMENT DETAILS

NOT TO SCALE NOTE: TRANSITIONS ARE SHOWN FOR LAYBACK KERB REFER SS3005 FOR TYPICAL KERB AND GUTTER TRANSITIONS

					Г
1	REISSUED AS A STANDARD DRAWING	APR 23	KS	BYRNE	
0	ISSUED AS A STANDARD DRAWING	AUG 20	KS	BYRNE	1
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY	

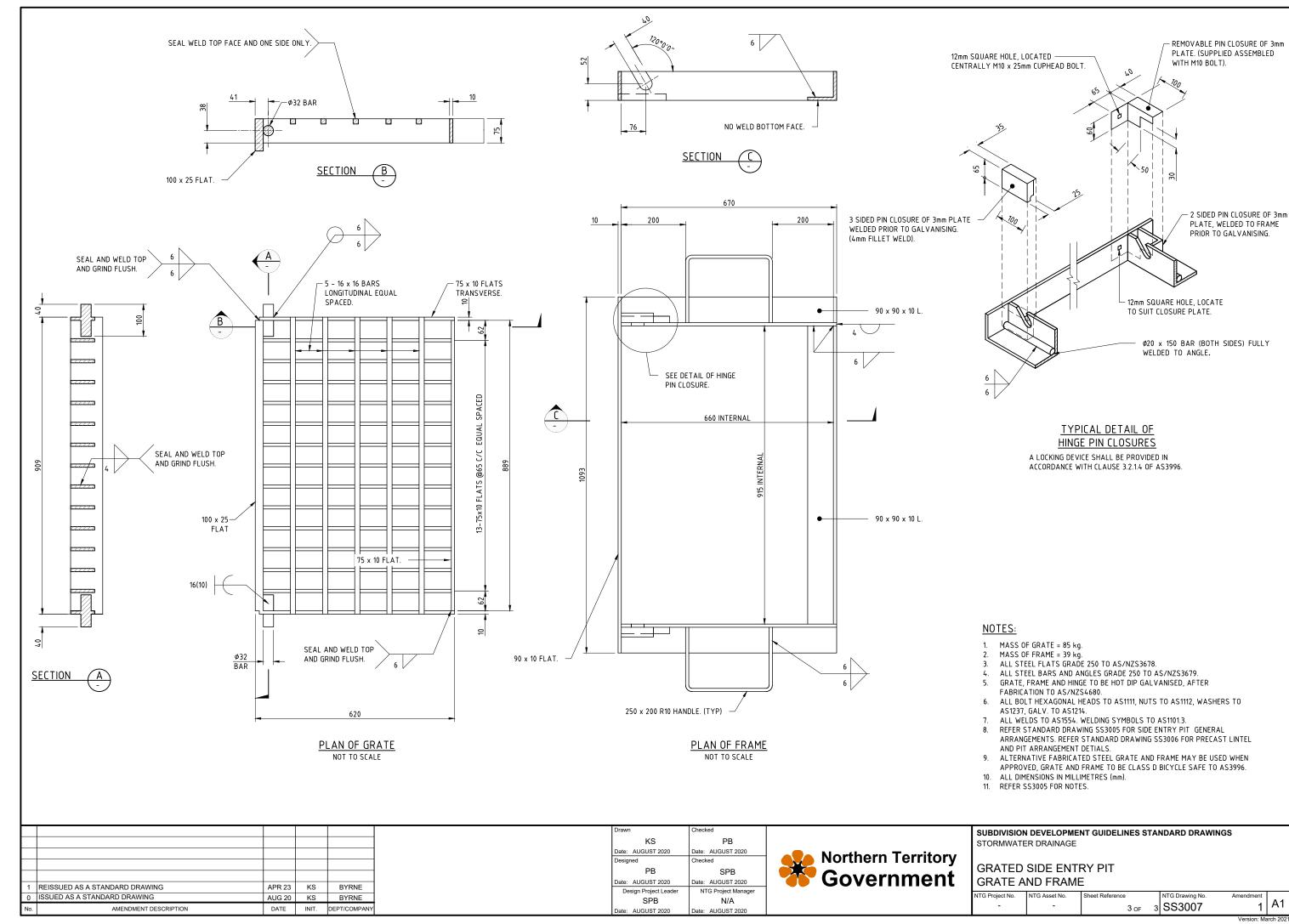
Drawn	Checked	
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Date: AUGUST 2020	Date: AUGUST 2020	
Designed	Checked	
PB	SPB	
Date: AUGUST 2020	Date: AUGUST 2020	
Design Project Leader	NTG Project Manager	
SPB	N/A	
Date: AUGUST 2020	Date: AUGUST 2020	



SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS
STORMWATER DRAINAGE

GRATED SIDE ENTRY PIT LINTEL & PIT ARRANGEMENT DETAILS

oject No. NTG Asset No. Sheet Reference 2 OF 3 SS3006 1 Amendment A1



GENERAL NOTES:

-EXTEND EDGE SEAL TO BACK OF ENDWALL AND GROUTED STONE PITCHING. TAPER BACK TO MIN

GROUTED STONE PITCHING OR RENO MATTRESS ON GEOTEXTILE FABRIC AS SPECIFIED ON PROJECT DRAWINGS.

SEAL WIDTH AS SHOWN (NOTE 10)

PLAN NOT TO SCALE

KS

DATE

BYRNE

BYRNE

INIT. DEPT/COMPAN

DRIVEWAY

EDGE OF SEAL

EDGE OF SHOULDER

REISSUED AS A STANDARD DRAWING

AMENDMENT DESCRIPTION

ISSUED AS A STANDARD DRAWING

- ALL WORK MUST COMPLY WITH THE STANDARD SPECIFICATION FOR SUBDIVISIONS ALONG WITH PROJECT SPECIFIC AMENDMENTS.
- 2. ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- R.C.B.C SIZE AND EXTENT OF PROTECTION WORKS MUST BE APPROVED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS. PROTECTION SHOULD BE EXTENDED OVER AREAS WHERE THE BATTER SLOPE EXCEEDS 1:4.
- FOR MULTIPLE BOXES THE SPACING BETWEEN BOXES MUST BE 40mm MINIMUM AND INFILLED BY PLACING N32/20 CONCRETE PLUGS OF 250mm MINIMUM LENGTH AT BOTH ENDS OF THE STRUCTURE, AND INFILLING THE REMAINING GAP WITH 1:10 LEAN MIX HAVING MAXIMUM AGGREGATE SIZE OF 10mm PACKED DRY.
- CONCRETE TO BE MINIMUM N32/20/80 UNO. CONCRETE DESIGN IS TYPICALLY
 BASED ON B1 EXPOSURE CLASSIFICATION, WITH MINIMUM REQUIRED COVER TO
 BEINFORFEMENT OF 40mm IN ACCORDANCE WITH AS3600

FOR OTHER EXPOSURE CLASSIFICATIONS, COMPLY WITH AS3600 AND THE FOLLOWING MINIMUM STRENGTH AND COVER REQUIREMENTS:

EXPOSURE CLASSIFICATION	CHARACTERISTIC STRENGTH (MPa)	REQUIRED COVER (mm)
A1, A2	N25/20/80	30mm
B1	N32/20/80	40mm
B2	N40/20/80	45mm
C1	N50/20/80	50mm
C2	N50/20/80	65mm

Northern Territory

Government

ACCESS CULVERT

NTG Project No.

TYPICAL ENDWALL DETAILS

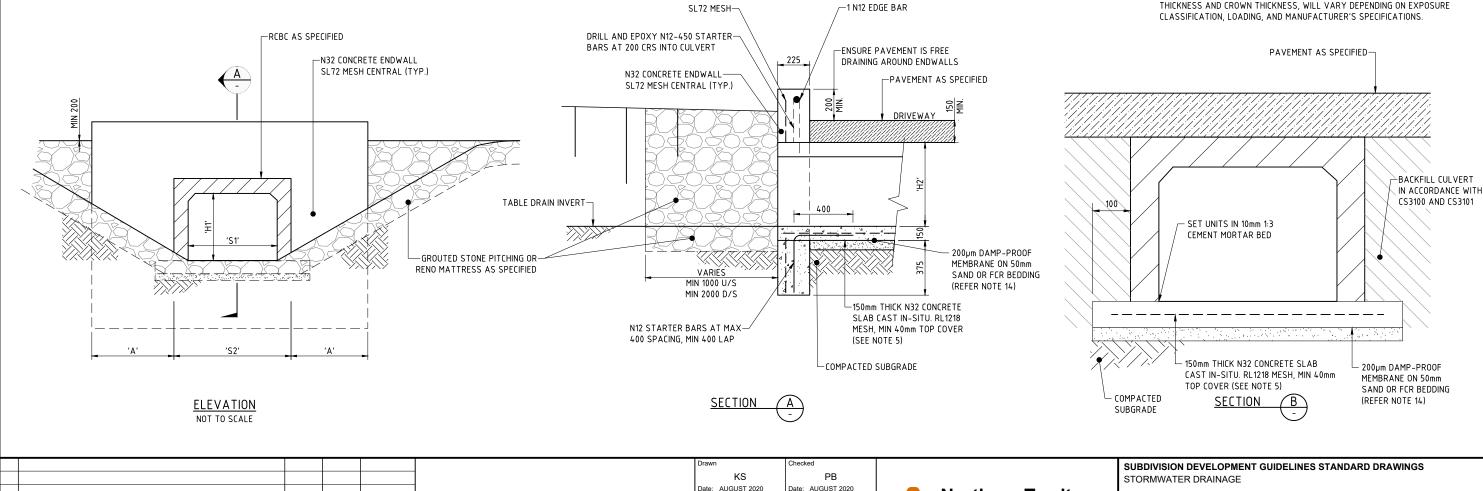
NTG Asset No.

TABLE NOTE: EXPOSURE CLASSIFICATIONS B2, C1 AND C2 MAY TRIGGER INCREASED CONCRETE THICKNESSES TO ACHIEVE MINIMUM COVER REQUIREMENTS.

- ALL CONCRETE WORKS MUST COMPLY WITH AS1379 AND AS3600.
 ALL EXPOSED EDGES TO BE PROVIDED WITH 20mm CHAMFERS
- 7. ALL REINFORCING MUST COMPLY WITH AS1304 AND AS4671.
- RL1118 MESH LONGITUDINAL BARS IN CULVERT SLABS MUST BE LAID IN DIRECTION OF TRAFFIC.
- 9. CONCRETE FLOOR SLAB TO EXTEND MIN 100mm PAST R.C.B.C OUTER WALLS.
- 10. ON DRIVEWAYS, STONE PITCHING MUST MATCH WITH THE BITUMINOUS SURFACE. NO GAP BETWEEN THE SURFACE OF THE DRIVEWAY AND HEADWALL PROTECTION WILL BE ACCEPTED.
- MIN CULVERT HEIGHT 450MM UNLESS OTHERWISE AGREED WITH THE RELEVANT AUTHORITY.
- FOR CULVERTS EXCEEDING A HEIGHT OF 600mm, REFER TO DIPL STANDARD DRAWINGS FOR DETAILS. CONSIDER NEED FOR BARRIERS/EDGE TREATMENTS.
- 13. DRIVEWAY ENDWALLS MUST BE LOCATED OUTSIDE OF CLEAR ZONES.
- 14. SAND OR FCR BEDDING MAY BE OMITTED FOR CATEGORY B AND C

TABLE OF DIMENSIONS					
BOX CULVERT SIZE	'S1'	′H1′	'S2'	'H2'	'A'
450x450	451	457	611	552	450
600x450	606	457	766	572	690
750x450	756	457	948	582	710
750x600	756	610	948	735	940
900x450	908	457	1100	582	710
900x600	908	610	1100	735	940
1200x450	1212	457	1404	582	730
1200x600	1212	610	1404	735	960

TABLE NOTE: DIMENSIONS SHOWN ARE NOMINAL ONLY AND BASED ON A B2 EXPOSURE CLASSIFICATION. EXACT CULVERT DIMENSIONS, INCLUDING WALL THICKNESS AND CROWN THICKNESS, WILL VARY DEPENDING ON EXPOSURE CLASSIFICATION, LOADING, AND MANUFACTURER'S SPECIFICATIONS.



PB

Date: AUGUST 2020

e: AUGUST 2020

SPB

N/A

ate: AUGUST 2020

ate: AUGUST 2020

NTG Drawing No

SS3008

1 of

