

77-85 STATION ROAD

AUBURN

ISSUED FOR DEVELOPMENT APPLICATION

DECEMBER 2018

SCHEDULE OF DRAWINGS

6607-DA	000	COVER SHEET, LOCALITY PLAN AND SCHEDULE OF DRAWINGS
6607-DA	001	GENERAL NOTES
6607-DA	002	AERIAL OVERLAY PLAN AND EXISTING STORMWATER PIPES
6607-DA	010	ENGINEERING CONCEPTUAL PLAN BASEMENT 2 STORMWATER DRAINAGE
6607-DA	011	ENGINEERING CONCEPTUAL PLAN BASEMENT 1 STORMWATER DRAINAGE
6607-DA	012	ENGINEERING CONCEPTUAL PLAN LOWER GROUND FLOOR STORMWATER DRAINAGE
6607-DA	013	ENGINEERING CONCEPTUAL PLAN GROUND FLOOR STORMWATER DRAINAGE
6607-DA	014A	ENGINEERING CONCEPTUAL PLAN LEVEL 1 STORMWATER DRAINAGE
6607-DA	014B	ENGINEERING CONCEPTUAL PLAN LEVEL 2 STORMWATER DRAINAGE
6607-DA	014C	ENGINEERING CONCEPTUAL PLAN LEVEL 3 STORMWATER DRAINAGE
6607-DA	015	ENGINEERING CONCEPTUAL PLAN LEVEL 4 STORMWATER DRAINAGE
6607-DA	016	ENGINEERING CONCEPTUAL PLAN ROOF PLAN STORMWATER DRAINAGE
6607-DA	020	MISCELLANEOUS DETAILS
6607-DA	025	CATCHMENT PLAN



LOCALITY PLAN
NTS

CLIENT:

SALEX PTY LTD

CONSULTANTS:



NOTES

1. ALL WORK MUST BE CARRIED OUT IN CONFORMITY WITH THE BUILDING CODE OF AUSTRALIA, THE PLUMBING NOTES 1 THROUGH TO 24 AND AS 3500, THE ARCHITECTURAL PLANS AND SPECIFICATIONS. POSITION OF BRANCH MUST BE LOCATED BEFORE ANY WORK IS COMMENCED.
2. PIPE WORK TO BE LAID IN ACCORDANCE WITH AS 1254-2010, 1260-2009, 1432-2004, 1477-2006, 1646-2000, 2032-2006, 2033-1980, 2053-2001, 2129-2000, 2280-2004, 2566-1998 AS' CURRENT.
3. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL INSTALLATION THEREIN SHALL BE DONE TO THE BEST PRACTICE OF THE PROFESSION.
5. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
6. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTINGS, VALVE AND APPLIANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED. IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
7. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY SUCH THAT WHAT IS NOTED IN ONE, ALTHOUGH NOT INDICATED OR MENTIONED IN THE OTHER SHALL BE CONSIDERED CONTAINED IN ALL.
8. PLUMBER TO CHECK DESIGN DURING PRICING AND NOTIFY ANY CONCERN.
9. THE LOCATION OF ALL FIXTURES ARE TO BE CHECKED WITH THE BUILDER/SITE MANAGER PRIOR TO PIPES OR DRAINS BEING INSTALLED.
10. PIPES FOR FIXTURE CONNECTIONS TO BE FINISHED 100mm ABOVE FLOOR SLAB LEVEL PRIOR TO POURING OF SLAB AND ADJUSTED TO SUIT FIXTURE CONNECTION AFTER SLAB CURED.
11. DEPTHS AND LOCATIONS OF CONNECTION POINTS ARE TO BE CHECKED PRIOR TO WORK COMMENCING.
12. ANY EXISTING UTILITIES EQUIPMENT, PIPING OR PAVED AREAS AFFECTED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AND BE PROPERLY SCHEDULED PRIOR TO ACTUAL WORK AND WITH THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
13. ALL PIPE SIZES ARE IN MILLI-METRES AND ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

1. ALL WORK MUST BE CARRIED OUT IN CONFORMITY WITH THE BUILDING CODES OF AUSTRALIA, THE PLUMBING NOTES 1 THROUGH TO 24 AND AS 3500, THE ARCHITECTURAL PLANS AND SPECIFICATIONS. POSITION OF BRANCH MUST BE LOCATED BEFORE ANY WORK IS COMMENCED.
2. PIPE WORK TO BE LAID IN ACCORDANCE WITH AS 1254-2010, 1260-2009, 1432-2004, 1477-2006, 1646-2000, 2032-2006, 2033-1980, 2053-2001, 2129-2000, 2280-2004, 2566-1998 AS CURRENT.
3. ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
4. ALL INSTALLATION THEREIN SHALL BE DONE TO THE BEST PRACTICE OF THE PROFESSION.
5. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
6. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTINGS, VALVE AND APPLIANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED. IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
7. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY SUCH THAT WHAT IS NOTED IN ONE, ALTHOUGH NOT INDICATED OR MENTIONED IN THE OTHER SHALL BE CONSIDERED CONTAINED IN ALL.
8. PLUMBER TO CHECK DESIGN DURING PRICING AND NOTIFY ANY CONCERN.
9. THE LOCATION OF ALL FIXTURES ARE TO BE CHECKED WITH THE BUILDER/SITE MANAGER PRIOR TO PIPES OR DRAINS BEING INSTALLED.
10. PIPES FOR FIXTURE CONNECTIONS TO BE FINISHED 100mm ABOVE FLOOR SLAB LEVEL PRIOR TO POURING OF SLAB AND ADJUSTED TO SUIT FIXTURE CONNECTION AFTER SLAB CURED.
11. DEPTHS AND LOCATIONS OF CONNECTION POINTS ARE TO BE CHECKED PRIOR TO WORK COMMENCING.
12. ANY EXISTING UTILITIES EQUIPMENT, PIPING OR PAVED AREAS AFFECTED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AND BE PROPERLY SCHEDULED PRIOR TO ACTUAL WORK AND WITH THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
13. ALL PIPE SIZES ARE IN MILLI-METRES AND ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

GENERAL

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF THE PLANS.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS, THE BY-LAWS AND ORDINANCES OF THE RELEVANT AUTHORITIES AND THE SPECIFICATIONS.
4. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE SUPERINTENDENT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SAFE WORK PRACTICES ARE FOLLOWED AT ALL TIMES DURING THE COURSE OF THE CONTRACT. OH&S REGULATIONS AND WORK COVER REQUIREMENTS ARE TO BE COMPLIED WITH. REFER TO THE SPECIFICATION AND CONTRACT DOCUMENTS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SURVEY MARKS ARE MAINTAINED. IF THE CONTROL MARKS ARE DESTROYED OR MOVED DURING CONSTRUCTION THE CONTRACTOR MUST SUPPLY ADEQUATE MARKS FOR RE-ESTABLISHMENT AND INFORM THE SUPERINTENDENT.
7. ALL DIMENSIONS ARE IN MILLIMETERS. CHANGES, REDUCED LEVELS, CHAINAGES, OFFSETS AND ROAD WIDTHS ARE IN METRES UNLESS OTHERWISE SHOWN.
8. THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING OFF THE PLANS.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS, THE BY-LAWS AND ORDINANCES OF THE RELEVANT AUTHORITIES AND THE SPECIFICATIONS.
4. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE SUPERINTENDENT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SAFE WORK PRACTICES ARE FOLLOWED AT ALL TIMES DURING THE COURSE OF THE CONTRACT. OH&S REGULATIONS AND WORK COVER REQUIREMENTS ARE TO BE COMPLIED WITH. REFER TO THE SPECIFICATION AND CONTRACT DOCUMENTS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SURVEY MARKS ARE MAINTAINED. IF THE CONTROL MARKS ARE DESTROYED OR MOVED DURING CONSTRUCTION THE CONTRACTOR MUST SUPPLY ADEQUATE MARKS FOR RE-ESTABLISHMENT AND INFORM THE SUPERINTENDENT.
7. ALL DIMENSIONS ARE IN MILLIMETERS. CHANGES, REDUCED LEVELS, CHAINAGES, OFFSETS AND ROAD WIDTHS ARE IN METRES UNLESS OTHERWISE SHOWN.
8. THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.

SERVICE ADJUSTMENT:

1. ALL SERVICES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN LOCATED FROM SITE INVESTIGATION AND RELEVANT AUTHORITIES' PLANS. THESE SERVICES ARE NOT GUARANTEED CORRECT OR COMPLETE.
2. THE CONTRACTOR MUST OBTAIN UP-TO-DATE PLANS FROM 'DIAL BEFORE YOU DIG' BEFORE COMMENCEMENT OF WORKS. THE EXACT LOCATION OF ALL SERVICES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.
3. EXISTING SERVICES ARE TO BE MAINTAINED OR ADJUSTED AS DETAILED IN THE PLANS. ANY ADJUSTMENT OR PROTECTION MEASURES ARE TO BE CARRIED OUT BY ACCREDITED SERVICE PROVIDERS. REFER ANY CONFLICTS OR UNIDENTIFIED EXISTING SERVICES TO THE SUPERINTENDENT IMMEDIATELY.
4. ELECTRICAL CONDUITS SHOULD BE PROVIDED AND LOCATED TO THE SATISFACTION OF INTEGRAL ENERGY.
5. WATER CONDUITS SHOULD BE PROVIDED TO SUIT WATER MAIN LOCATIONS.
6. TELSTRA AND OPTUS CONDUITS PROVIDED AND LOCATED TO THE SATISFACTION OF THE RELEVANT TELECOMMUNICATIONS AUTHORITY.

1. ALL SERVICES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN LOCATED FROM SITE INVESTIGATION AND RELEVANT AUTHORITIES' PLANS. THESE SERVICES ARE NOT GUARANTEED CORRECT OR COMPLETE.
2. THE CONTRACTOR MUST OBTAIN UP-TO-DATE PLANS FROM 'DIAL BEFORE YOU DIG' BEFORE COMMENCEMENT OF WORKS. THE EXACT LOCATION OF ALL SERVICES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.
3. EXISTING SERVICES ARE TO BE MAINTAINED OR ADJUSTED AS DETAILED IN THE PLANS. ANY ADJUSTMENT OR PROTECTION MEASURES ARE TO BE CARRIED OUT BY ACCREDITED SERVICE PROVIDERS. REFER ANY CONFLICTS OR UNIDENTIFIED EXISTING SERVICES TO THE SUPERINTENDENT IMMEDIATELY.
4. ELECTRICAL CONDUITS SHOULD BE PROVIDED AND LOCATED TO THE SATISFACTION OF INTEGRAL ENERGY.
5. WATER CONDUITS SHOULD BE PROVIDED TO SUIT WATER MAIN LOCATIONS.
6. TELSTRA AND OPTUS CONDUITS PROVIDED AND LOCATED TO THE SATISFACTION OF THE RELEVANT TELECOMMUNICATIONS AUTHORITY.

MATERIAL SPECIFICATIONS

STORMWATER PIPES:

- SHALL BE UN-PLASTICISED POLYVINYL CHLORIDE (uPVC) IN DWV QUALITY IN ACCORDANCE WITH AS1260.
- FITTINGS SHALL BE SOLVENT CEMENT JOINTS.
- CAST-IN BEAM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AS4001.
- FITTINGS SHALL BE ELECTRO-FUSION WELDING JOINT CONNECTION.

STORMWATER PIPES:

- SHALL BE UN-PLASTICISED POLYVINYL CHLORIDE (uPVC) IN DWV QUALITY IN ACCORDANCE WITH AS1260.
- FITTINGS SHALL BE SOLVENT CEMENT JOINTS.
- CAST-IN BEAM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AS4001.
- FITTINGS SHALL BE ELECTRO-FUSION WELDING JOINT CONNECTION.

- SHALL BE UN-PLASTICISED POLYVINYL CHLORIDE (uPVC) IN DWV QUALITY IN ACCORDANCE WITH AS1260.
- FITTINGS SHALL BE SOLVENT CEMENT JOINTS.
- CAST-IN BEAM PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AS4001.
- FITTINGS SHALL BE ELECTRO-FUSION WELDING JOINT CONNECTION.

TELSTRA - DUTY OF CARE NOTE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME.

DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION

TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

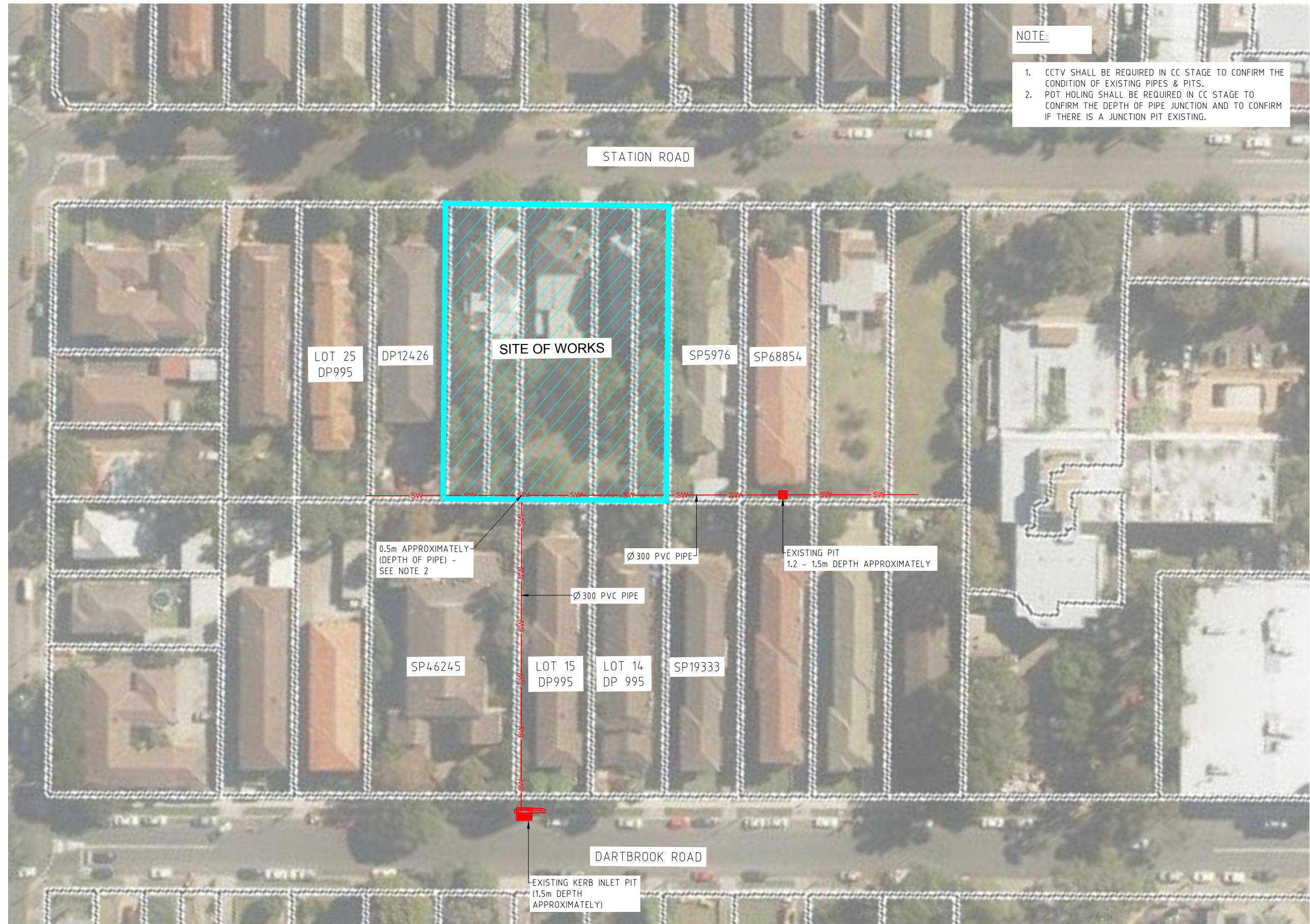
THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

No.	AMENDMENT	APPROVED	DATE	REVIEW BY	DEVELOPMENT TEAM	CLIENT	 SALEX PTY LTD INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au <table><tr><td>APPROVED</td><td>VM</td><td>DATE</td><td>22/05/2017</td></tr><tr><td>CHECKED</td><td>KN</td><td>DATE</td><td>26/05/2017</td></tr><tr><td>DESIGNED BY</td><td>TN</td><td></td><td></td></tr><tr><td>DRAWN BY</td><td>EJ</td><td></td><td></td></tr><tr><td>CAD FILE</td><td colspan="3">G:\6607 77-85 Station Road Auburn NSW\Acad\Current Drawings\Civil\6607-001.dwg</td></tr><tr><td>SCALE</td><td>AS SHOWN</td><td>SHEET No.</td><td></td></tr></table>			APPROVED	VM	DATE	22/05/2017	CHECKED	KN	DATE	26/05/2017	DESIGNED BY	TN			DRAWN BY	EJ			CAD FILE	G:\6607 77-85 Station Road Auburn NSW\Acad\Current Drawings\Civil\6607-001.dwg			SCALE	AS SHOWN	SHEET No.		PROJECT	DRAWING TITLE		
APPROVED	VM	DATE	22/05/2017																																		
CHECKED	KN	DATE	26/05/2017																																		
DESIGNED BY	TN																																				
DRAWN BY	EJ																																				
CAD FILE	G:\6607 77-85 Station Road Auburn NSW\Acad\Current Drawings\Civil\6607-001.dwg																																				
SCALE	AS SHOWN	SHEET No.																																			
77-85 STATION ROAD AUBURN					GENERAL NOTES																																
PROJECT No. 6607-DA					DRAWING No. 001		AMDT C																														



NOTE:

1. CCTV SHALL BE REQUIRED IN CC STAGE TO CONFIRM THE CONDITION OF EXISTING PIPES & PITS.
2. POT HOLING SHALL BE REQUIRED IN CC STAGE TO CONFIRM THE DEPTH OF PIPE JUNCTION AND TO CONFIRM IF THERE IS A JUNCTION PIT EXISTING.



NTS

No.					AMENDMENT	APPROVED	DATE	DESIGNED BY	DEVELOPMENT TEAM	CLIENT	INDESCO	COUNCIL AUSTRALIA	APPROVED	DATE	PROJECT	DRAWING TITLE		
										SALEX PTY LTD	 CANBERRA SYDNEY WOLLONGONG www.indesco.com.au		VM	22/05/2017	77-85 STATION ROAD AUBURN	AERIAL OVERLAY PLAN & EXISTING STORMWATER PIPES		
									KN				26/05/2017					
									TN									
									EJ									
B					ISSUED FOR DA APPROVAL	KN	4/12/2018	EJ					CAD FILE			G:\6607 77-85 Station Road Auburn NSW\Acad\Current Drawings\Civil\6607-002.dwg		
A					ISSUED FOR DA APPROVAL	TN	8/12/2017	EJ					SCALE			AS SHOWN		
													SHEET No.					

COUNCIL DCP2010 REQUIREMENTS:

DRIVEWAY CATCHMENT AREA	60 m ²
PUMP DISCHARGE RATE	100YR ARI 5MIN STORM DURATION
REQUIRED STORAGE VOLUME TANK UNDERGROUND	100YR ARI 90MIN STORM DURATION
REQUIRED STORAGE VOLUME TANK ABOVEGROUND	100YR ARI 12HR STORM DURATION

(*) THIS VOLUME IS INCORPORATED INTO THE ABOVEGROUND OSD

PUMP DISCHARGE RATE CALCULATION:

$100YR\ 5MIN = 232mm/hour$
DRIVEWAY CATCHMENT AREA: $A = 60m^2 = 0.006ha$
 $Q = C * I * A/360$ WHERE $C = 1.0$
 $= 1.0 * 232 * 0.006/360$
 $= 0.00386\ m^3/s$
 $= 3.86\ l/s$

BASEMENT STORAGE TANK VOLUME CALCULATION

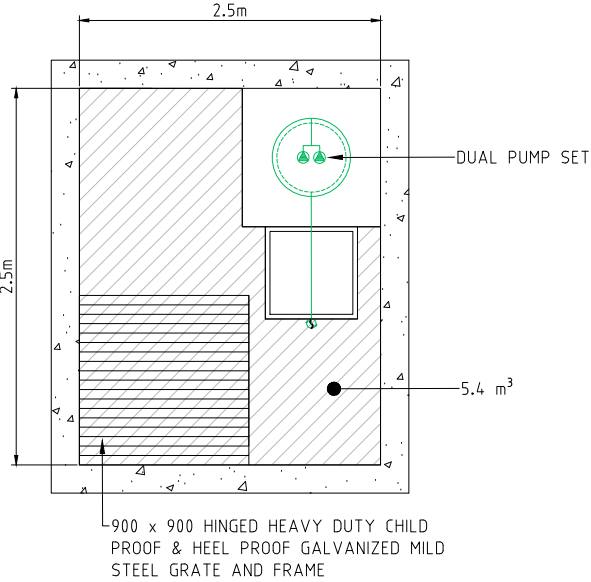
$100YR\ 90MIN = 61.7mm/hour$
DRIVEWAY CATCHMENT AREA: $A = 60m^2 = 0.006ha$
 $Q = C * I * A/360$ WHERE $C = 1.0$
 $= 1.0 * 61.7 * 0.006/360$
 $= 0.0010\ m^3/s$

THEREFORE, THE REQUIRED UNDERGROUND VOLUME IS:
 $V = 0.0010 * (90 * 60)$
 $= 5.4\ m^3$

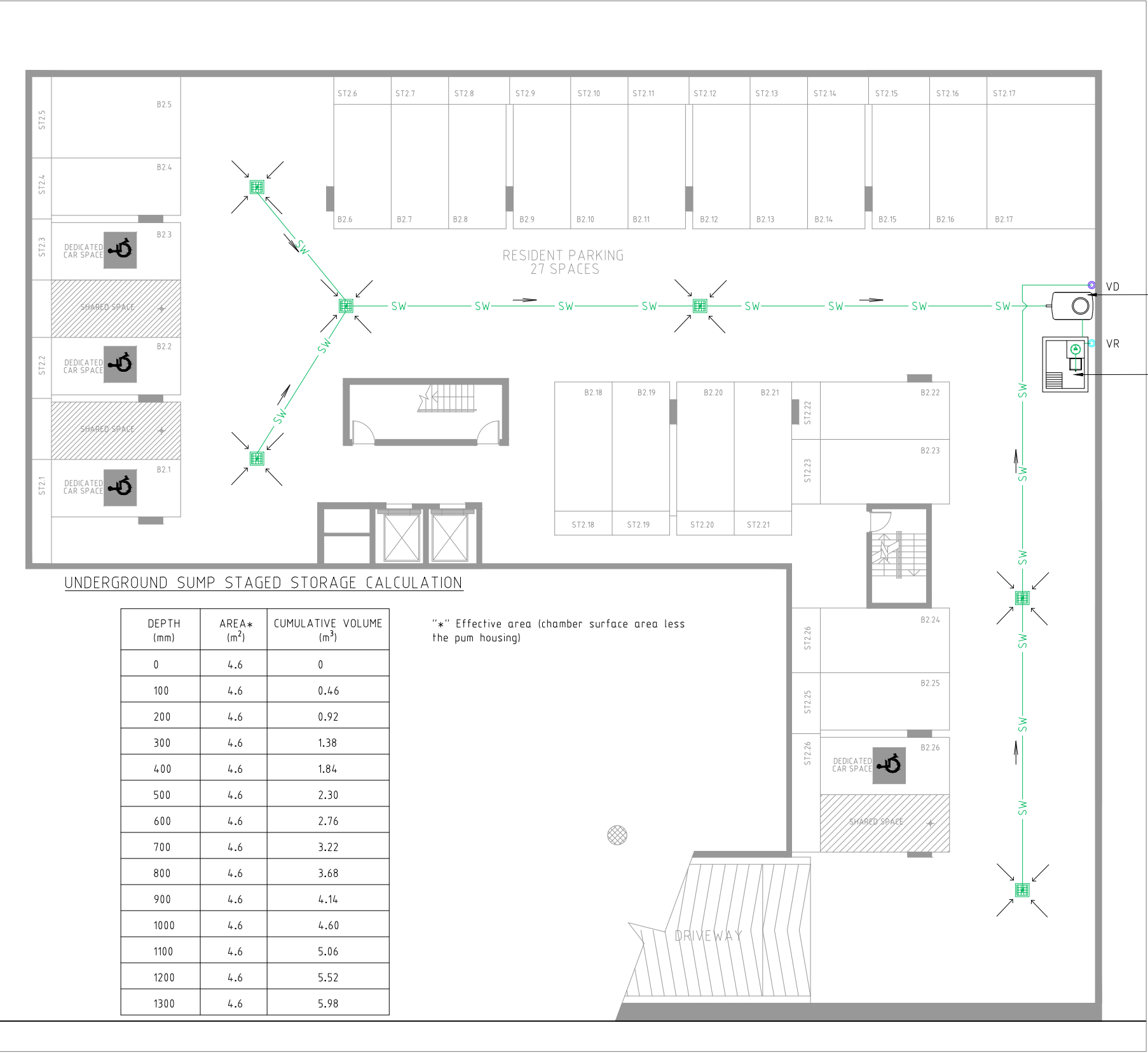
ADDITIONAL ABOVEGROUND STORAGE VOLUME CALCULATION

$100YR\ 12HR = 17.1mm/hour$
DRIVEWAY CATCHMENT AREA: $A = 60m^2 = 0.006ha$
 $Q = C * I * A/360$ WHERE $C = 1.0$
 $= 1.0 * 17.1 * 0.006/360$
 $= 0.000285\ m^3/s$

THEREFORE, THE REQUIRED UNDERGROUND VOLUME IS:
 $V = 0.000285 * (12 * 60 * 60)$
 $= 12.3\ m^3$



DETAIL A - BASEMENT STORAGE TANK



NOTE:

- ALL PIPES WITH 1% MIN. GRADE. U.N.O.
- PIPE SIZE IS INDICATE ONLY, FINAL SIZE TO BE CONFIRMED IN CC

LEGEND:

- GRATED SURFACE INLET PIT
- VERTICAL RISER (VR)
- VERTICAL DROP (VD)
- PIPE FLOW DIRECTION
- SURFACE FLOW DIRECTION

MODULAR GREASE TRAP S SERIES MGTDS SCD 1000L, PROVIDED BY HALGAN PTY LTD, OR SIMILAR PRODUCT. APPROVED BY SYDNEY WATER

DUAL PUMP SET AND STORAGE TANK REFER TO DETAIL A

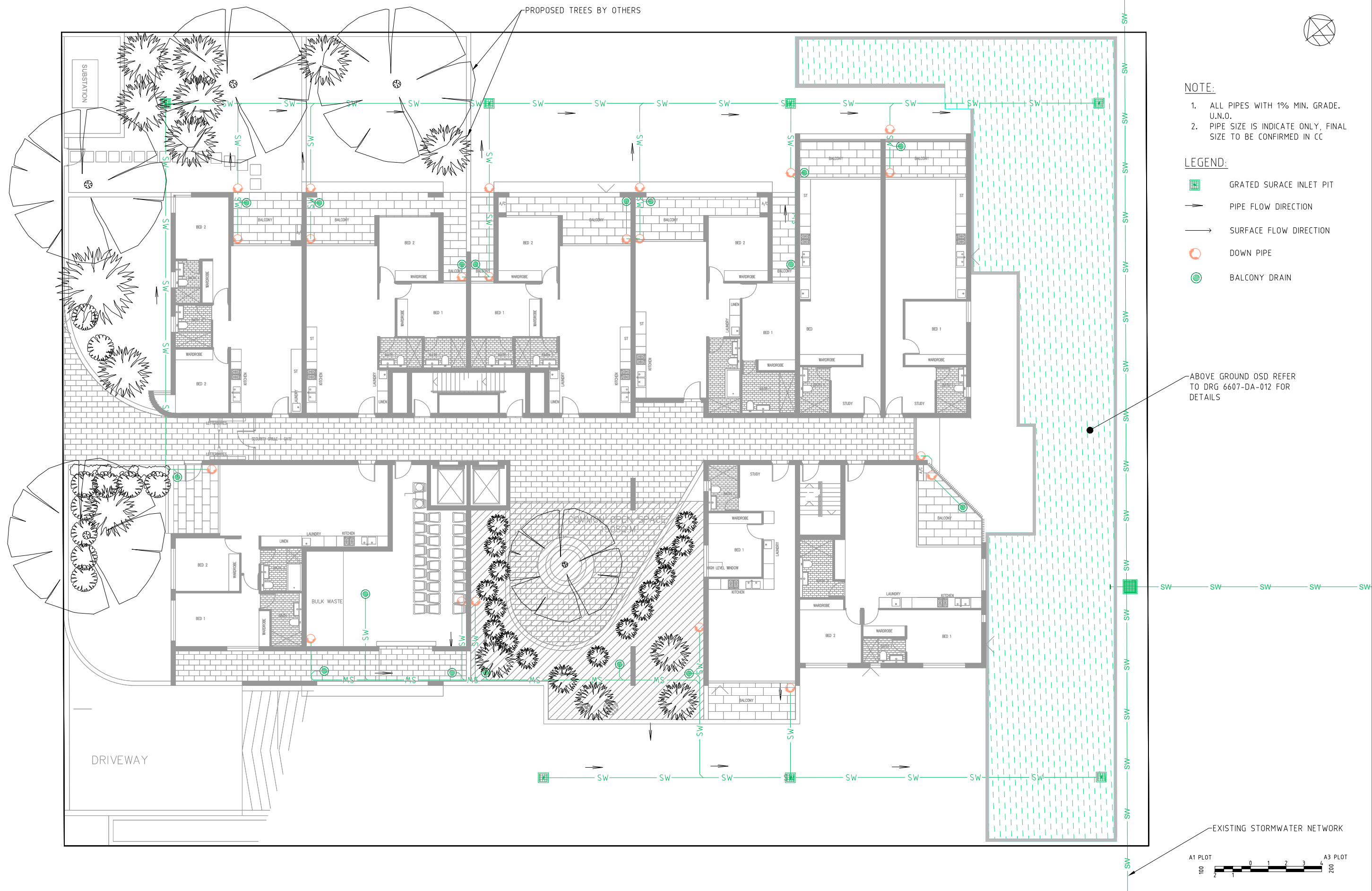


No.	AMENDMENT	APPROVED	DATE	DESIGNED BY	DEVELOPMENT TEAM	CLIENT	PROJECT	DRAWING TITLE
						SALEX PTY LTD	77-85 STATION ROAD AUBURN	ENGINEERING CONCEPTUAL PLAN BASEMENT 2 STORMWATER DRAINAGE
D	ISSUED FOR DA APPROVAL	KN	4/12/2018	EJ				
C	ISSUED FOR DA APPROVAL	KN	1/05/2018	TN				
B	ISSUED FOR DA APPROVAL	TN	13/12/2017	EJ				
A	ISSUED FOR DA APPROVAL	TN	8/12/2017	EJ				

APPROVED	* ORIGINAL SIGNED	DATE	22/05/2017
CHECKED	* KN	DATE	26/05/2017
DESIGNED BY	TN		
DRAWN BY	EJ		
CAD FILE	G:\6607-77-85-Station Drawings\Civil\6607-010-B2.dwg		
SCALE	AS SHOWN	SHEET No.	

PROJECT No.	6607-DA	DRAWING No.	010	AMDT	D
-------------	---------	-------------	-----	------	---

[illegible]



AMENDMENT					APPROVED	DATE	DESIGNED BY	DEVELOPMENT TEAM	CLIENT	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au GOVERNMENT AUSTRALIA				PROJECT		DRAWING TITLE		
								ISSUED FOR DA APPROVAL KN 10/12/2018 EJ ISSUED FOR DA APPROVAL KN 4/12/2018 EJ ISSUED FOR DA APPROVAL TN 13/12/2017 EJ ISSUED FOR DA APPROVAL TN 8/12/2017 EJ	SALEX PTY LTD	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au GOVERNMENT AUSTRALIA	APPROVED VM DATE 22/05/2017 CHECKED KN DATE 26/05/2017 DESIGNED BY TN DRAWN BY EJ CAD FILE G:\6607-77-85-StationDrawings\Civil\6607-013-GF.dwg NSW\Acad\Current SCALE AS SHOWN SHEET No.	77-85 STATION ROAD AUBURN	ENGINEERING CONCEPTUAL GROUND FLOOR STORMWATER DRAINAGE					
D	ISSUED FOR DA APPROVAL	KN	10/12/2018	EJ														
C	ISSUED FOR DA APPROVAL	KN	4/12/2018	EJ														
B	ISSUED FOR DA APPROVAL	TN	13/12/2017	EJ														
A	ISSUED FOR DA APPROVAL	TN	8/12/2017	EJ														
													PROJECT No. 6607-DA		DRAWING No. 013	AMDT D		