

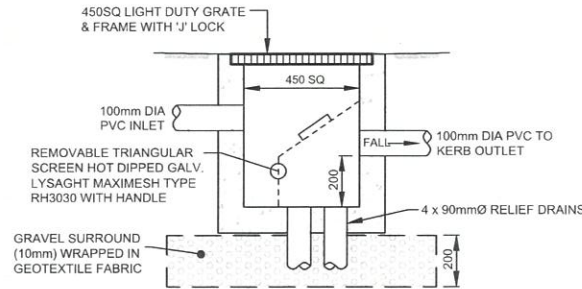
PROPOSED ALTERATIONS AND ADDITIONS 34 PLATEAU ROAD, BILGOLA PLATEAU NSW 2107 STORMWATER MANAGEMENT DESIGN

GENERAL DRAINAGE NOTES

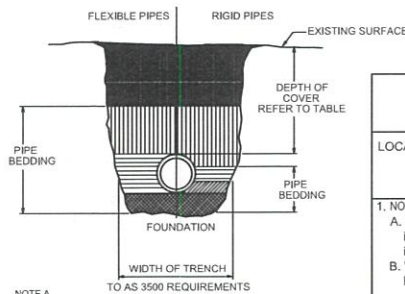
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL COUNCIL'S RELEVANT SPECIFICATIONS AND/OR STORMWATER CODE. ANY DISCREPANCY VARIATION OR ADDITIONAL WORK SHALL BE APPROVED BY THE PRINCIPAL CERTIFIER.
- ALL SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- DIAL BEFORE YOU DIG SHALL BE CONTACTED PRIOR TO COMMENCEMENT.
- ALL DRAINAGE PIPEWORK AND PLUMBING SHALL BE INSTALLED BY A CERTIFIED PLUMBER IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS3500 AND COUNCIL REQUIREMENTS.
- ALL DRAINAGE PIPES ARE TO BE SEWER GRADE UNLESS NOTED OTHERWISE.
- ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS C HEAVY DUTY WHERE SUBJECT TO VEHICULAR TRAFFIC.
- ALL COVERS, GRATES AND FRAMES ARE TO BE CLASS A MEDIUM DUTY WHERE SUBJECT TO PEDESTRIAN TRAFFIC OR IN LANDSCAPE AREAS.
- COUNCIL PERMIT/APPROVAL SHALL BE OBTAINED PRIOR TO WORKS ON COUNCIL LAND AND CONNECTION TO COUNCIL SYSTEM.
- ALL PIPE BENDS TO BE FITTED WITH AN INSPECTION OPENING.

RAINWATER TANK NOTES

- THE TANK SHALL NOT BE LOCATED OVER A WATER OR SEWER MAIN UNLESS IT IS INSTALLED IN ACCORDANCE WITH THE REGULATORY AUTHORITY REQUIREMENTS
- ABOVE GROUND TANKS SHALL BE LOCATED AT LEAST 100 MM FROM ANY POTABLE WATER SUPPLY PIPE AND AT LEAST 300 MM FOR BELOW GROUND TANKS.
- ALL PLUMBING WORK SHALL BE CARRIED OUT BY A LICENSED PLUMBER IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS AND COUNCIL REGULATIONS.
- ALL INLETS SHALL BE SCREENED OR FILTERED TO PREVENT THE ENTRY OF FOREIGN MATTER OR CREATURES.
- REUSE PUMP TO BE INSTALLED BY A LICENSED PLUMBER AND ELECTRICIAN TO SYDNEY WATER REQUIREMENTS
- A SIGN SHALL BE AFFIXED TO THE RAINWATER TANK AND ALL APERTURES CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER
- NOISE EMISSIONS FROM ANY PUMP SHALL MEET COUNCIL'S REQUIREMENTS.
- WATER RETAINED FOR INDOOR HOUSEHOLD USE SHALL BE AUGMENTED BY MAINS WATER SUPPLY AND APPROVAL OBTAINED BY SYDNEY WATER.
- WHERE RETAINED WATER IS AUGMENTED BY MAINS WATER SUPPLY A BACKFLOW PREVENTION DEVICE AND FLOW RESTRICTOR SHALL BE INSTALLED IN ACCORDANCE WITH AS 3500 AND SYDNEY WATER REQUIREMENTS.
- ALL INLETS SHALL BE FITTED WITH A FIRST FLUSH DEVICE PRIOR TO DISCHARGING TO THE RAINWATER TANK.
- THE INDIRECT CONNECTION TO MAINS WATER SUPPLY SHALL HAVE A VISIBLE AIR GAP IN ACCORDANCE WITH AS 3500.



POLLUTION CONTROL PIT DETAIL
NOT TO SCALE



NOTE A
STORMWATER DRAINS CONSTRUCTED OF OTHER THAN CAST IRON, DUCTILE IRON OR GALVANISED STEEL HAVING COVER LESS THAN THAT SPECIFIED IN TABLE SHALL BE COVERED WITH AT LEAST 50mm OVERLAY AND SHALL BE PAVED WITH AT LEAST (a) 100mm THICKNESS OF REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICULAR LOADING

LEGEND - TRENCH BACKFILL

SYMBOL	FLEXIBLE PIPES	RIGID PIPES
[Pattern]	BACKFILL	
[Pattern]	PIPE OVERLAY	
[Pattern]	PIPE SIDE SUPPORT	SIDE ZONE
[Pattern]		HAUNCH ZONE
[Pattern]	PIPE UNDERLAY	BED ZONE

MINIMUM PIPE COVER

(FROM FINISHED SURFACE TO TOP OF PIPE)

LOCATION	MINIMUM COVER (mm)	
	CAST / DUCTILE IRON OR GALV STEEL	AUTHORISED PRODUCTS (*)
1. NOT SUBJECT TO VEHICULAR LOADING: A. WITHOUT PAVEMENT: i. FOR SINGLE DWELLINGS - ii. OTHER THAN SINGLE DWELLINGS -	0	100
	0	300
B. WITH PAVEMENT OF BRICK/UNREINFORCED CONCRETE -	0 (**)	50 (**)
2. SUBJECT TO VEHICULAR LOADING: A. OTHER THAN ROADS: i. WITHOUT PAVEMENT - ii. WITH PAVEMENT OF: - RENF. CONC. FOR HEAVY VEHICLES - - BRICK/UNREINF. CONC LIGHT VEHICLES -	300	450
	0 (** #)	100 (** #)
	0 (** #)	75 (** #)
B. ROADS i. SEALED ii. UNSEALED	300	500 (#)
	300	500 (#)
3. SUBJECT TO CONSTRUCTION VEHICLES OR IN EMBANKMENT CONDITIONS	300	500 (#)

(*) INCLUDES OVERLAY ABOVE THE TOP OF THE PIPE OF NOT LESS THAN 50mm THICK
(**) BELOW THE UNDERSIDE OF THE PAVEMENT
(#) SUBJECT TO COMPLIANCE WITH AS1762, AS2033, AS/NZS 2566.1, AS3725 OR AS 4060

NORTHERN BEACHES COUNCIL REQUIREMENTS

THE STORMWATER DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL WATER MANAGEMENT FOR DEVELOPMENT POLICY REGION 1 - NORTHERN CATCHMENT AND AUSTRALIAN STANDARDS AS3500.3

DESIGN PARAMETERS

SITE AREA (m ²)	558.9
TOTAL INCREASE IN IMPERVIOUS AREA (m ²)	92.0 (75-100)
MINIMUM OSD STORAGE CAPACITY REQUIRED (L)	6,000
MAXIMUM OSD DISCHARGE RATE (l/s)	3.0
ORIFICE PLATE DIAMETER (mm)	33
TOTAL STORAGE VOLUME PROVIDED (L)	6,000

BASIC CERTIFICATE REQUIREMENTS

NO RAINWATER TANK STORAGE REQUIRED

LEGEND

[Symbol]	DENOTES ON-SITE DETENTION / RAINWATER REUSE TANK
[Symbol]	DENOTES 100mm DIA. STORMWATER PIPE AT 1% MIN. GRADE U.N.O
[Symbol]	DENOTES 100mm DIA. CHARGED STORMWATER PIPE TO ON-SITE DETENTION / RAINWATER TANK
[Symbol]	DENOTES DOWNPIPE
[Symbol]	STORMWATER PIT - SOLID COVER
[Symbol]	STORMWATER PIT - GRATED INLET
[Symbol]	DENOTES GRATED DRAIN

SHEET INDEX

COVER SHEET AND NOTES	SHEET SW1
STORMWATER MANAGEMENT PLAN	SHEET SW2
SECTIONS AND DETAILS	SHEET SW3

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CIVIL ENGINEERS**

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CLIENT NAME:
CRAIG LESTER

PROJECT TITLE:
**ALTERATIONS AND ADDITIONS
34 PLATEAU ROAD
BILGOLA PLATEAU NSW 2107**

DRAWING TITLE:
COVER SHEET AND NOTES

DRAWN: A.L.
DATE: 23.07.2024
JOB No: 2024-027

APPROVED BY:
ANDREW LAM
M.E. Aust B.E. Civil (Hons)
DWG NO: SW1
no. IN SET: 3

REVISION / ISSUE DESCRIPTION DATE

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NOTE:- TREE PRESERVATION

IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN ANY APPROVALS NECESSARY FROM LOCAL COUNCIL PRIOR TO ANY WORKS COMMENCING WITH RESPECT TO THE POTENTIAL IMPACT ON ANY TREES FOR ANY WORKS SHOW ON THIS DRAWING

ON-SITE DETENTION SYSTEM
PROVIDE A 6,000 LITRE ROUND ABOVE GROUND RAINWATER TANK BY GET TANKED (PH 0411 089337) OR SIMILAR TO LOCAL COUNCIL AND SYDNEY WATER REQUIREMENTS
TANK DIMENSIONS - 2,150 (DIA) x 1,900 (H)
OSD STORAGE VOLUME REQUIRED = 6,000 L
TOTAL STORAGE VOLUME PROVIDED = 6,000 L
PERMISSIBLE DISCHARGE RATE = 3.0 L/s
ORIFICE PLATE DIAMETER = 33 mm

100 mm Ø UPVC OUTLET PIPE @ MIN 1% GRADE TO POLLUTION CONTROL PIT

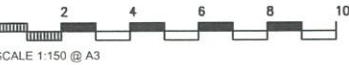
450 x 450 POLLUTION CONTROL PIT
GRATE RL 101.80
PIPE INVERT RL 29.55

100 mm Ø UPVC CHARGED PIPE TO RAINWATER TANK. ALL PIPES AND DOWNPIPES SHALL BE FULLY SEALED UP TO THE EAVES GUTTERS

ASSUMED LOCATION OF EXISTING ON-SITE DISPERSION / LEVEL SPREADER SYSTEM IN THE REAR YARD
NOTE: PLUMBER / BUILDER TO LOCATE AND CHECK CONDITION OF EXISTING SYSTEM AND UPGRADE AS NECESSARY

NOTE:
THIS DESIGN MANAGES STORMWATER RUNOFF FROM ROOF WATER AND DRIVEWAY SURFACES ONLY AS SHOWN ON THE ARCHITECTURAL DRAWINGS
ALL ROOF GUTTER TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3.

NOTE:
ROAD OPENING PERMIT TO BE OBTAINED FROM COUNCIL PRIOR TO COMMENCEMENT OF ANY WORK IN THE ROAD RESERVE



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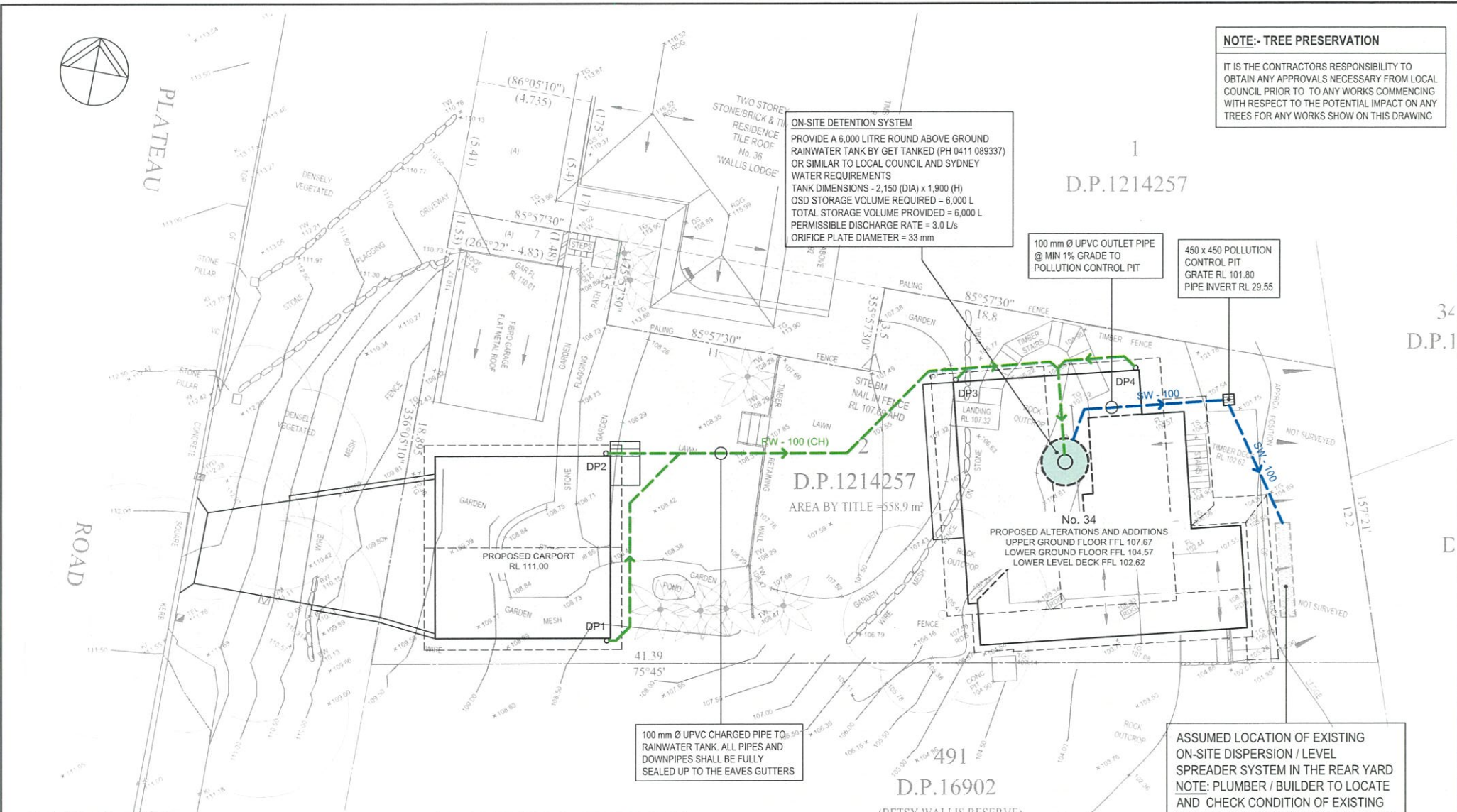
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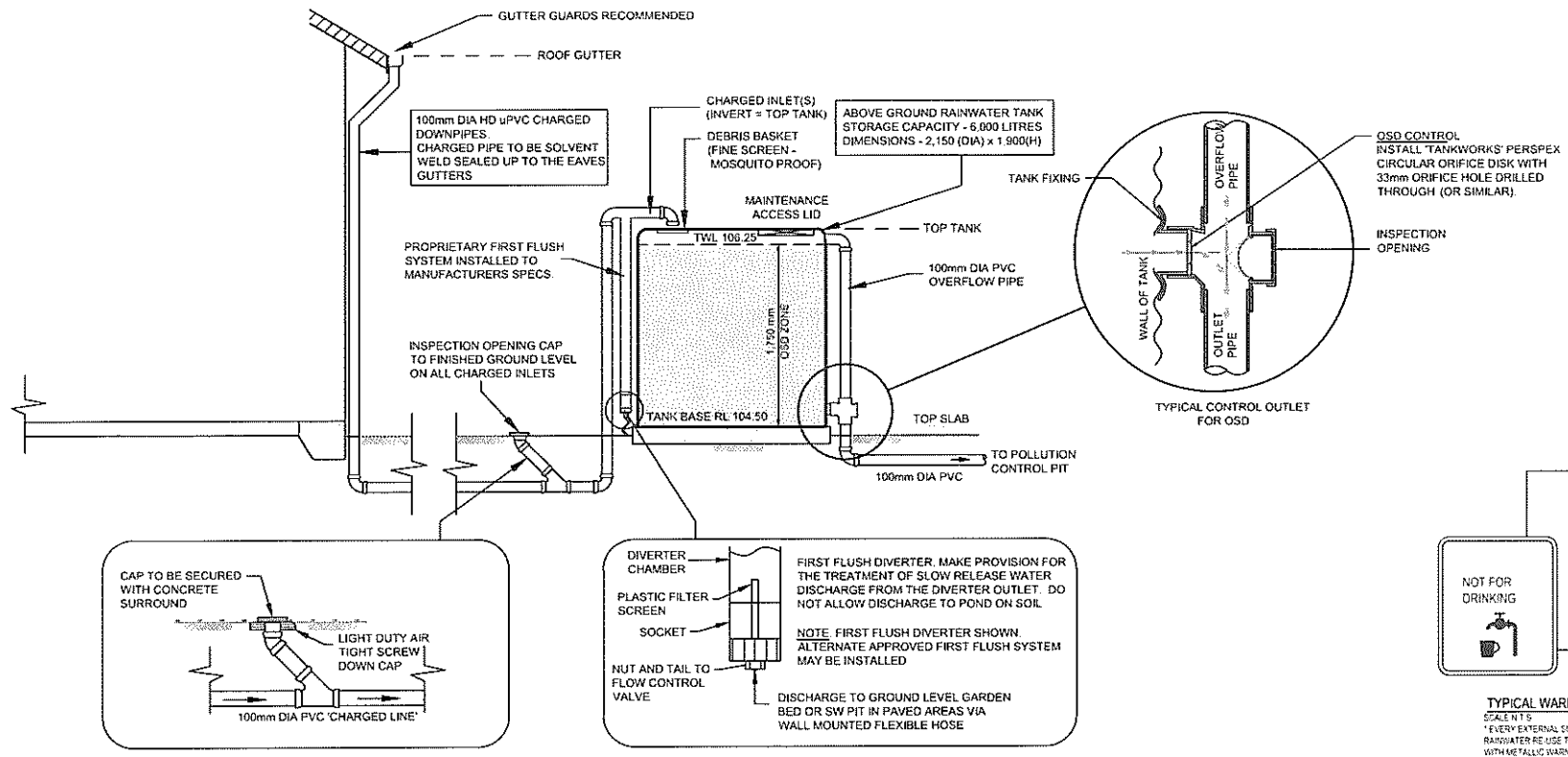
DRAWING TITLE:
**STORMWATER
MANAGEMENT PLAN**

DRAWN: A.L
DATE: 23.07.2024
JOB No: 2024-027

APPROVED BY:
ANDREW I AM
MEASUREMENTS
DWG NO: SW2
no. IN SET: 3

No.	REVISION / ISSUE DESCRIPTION	DATE





ABOVE GROUND ON-SITE DETENTION / RAINWATER TANK SCHEMATIC DETAIL
NOT TO SCALE

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DRAWING TITLE:
SECTIONS AND DETAILS

DRAWN: A.L.
DATE: 23.07.2024
JOB No: 2024-027

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REVISION / ISSUE DESCRIPTION	DATE

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