

CB No.	RIM EL.	LOCATION	TYPE
CB01	148.797	STA. 0+001.937 O/S 1.933 RT	900mm SIDE INLET CB AS PER COQ-S11A
CB02	148.976	STA. 0+008.921 O/S 7.424 RT	900mm SIDE INLET CB AS PER COQ-S11A
CB03	149.396	STA. 0+028.936 O/S 9.185 RT	900mm SIDE INLET CB AS PER COQ-S11A
CB04	149.937	STA. 0+041.873 O/S 9.185 RT	900mm SIDE INLET CB AS PER MMCD S11
CB05	150.595	STA. 0+054.809 O/S 9.185 RT	900mm SIDE INLET CB AS PER MMCD S11
CB06	151.262	STA. 0+067.745 O/S 9.185 RT	600mm TOP INLET CB AS PER MMCD S11
CB07	151.722	STA. 0+076.997 O/S 9.185 RT	600mm TOP INLET CB AS PER MMCD S11
CB08	152.231	STA. 0+087.017 O/S 9.185 RT	600mm TOP INLET CB AS PER MMCD S11
CB09	152.763	STA. 0+106.553 O/S 8.939 RT	600mm TOP INLET CB AS PER MMCD S11
LB01	153.772	STA. 0+109.832 O/S -23.821 LT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12

STORMWATER MANAGEMENT FACILITY DESIGN :

DESIGN CRITERIA:
TRY TO INFILTRATE UP TO 34mm OF RAINFALL IN 24 HOURS (50% OF MAR) AS PER THE CITY OF COQUITLAM MUNDY CREEK INTEGRATED WATERSHED MANAGEMENT PLAN

IMPERVIOUS AREA CALCULATION:

SURFACE TYPE	AREA (m ²)	IMP (%)	EIA (m ³)
ROADS & DRIVEWAYS (DIRECTLY CONNECTED TO STM SEWER)	5100	100	5100
LANDSCAPED AREA (OVER 300mm THICK LANDSCAPE TOPSOIL)	0	0	0
TOTAL	5100	100	5100

DESIGN PARAMETERS:
STRIVE TO INFILTRATE UP TO 34mm OF RAINFALL IN 24HRS PER MUNDY CREEK INTEGRATED WATERSHED MANAGEMENT PLAN

INFILTRATION RATE OF SUBSURFACE NATIVE SOILS = 2.78 x 10⁻⁶ m/s (2.8E-06) (BASED ON GOLDER ASSOCIATES GEOGRAPHICAL SITE INVESTIGATION AND PRELIMINARY DESIGN RECOMMENDATIONS DATED JULY, 29, 2021)

DUE TO LOW PERMEABILITY & LIMITED INFILTRATION CAPACITY OF THE SUBSURFACE NATIVE SOILS, PROVIDE INFILTRATION/RETENTION TANK FACILITY TO PROVIDE RETENTION STORAGE.

RETENTION VOLUME REQUIRED = 5,100m² x 0.034m = 173.4m³

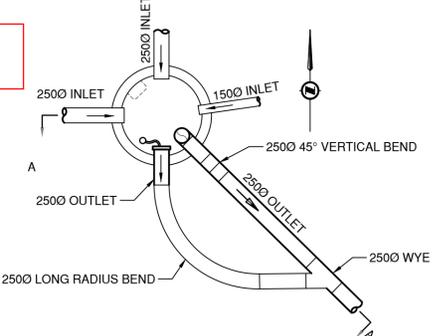
DETENTION/INFILTRATION FACILITY DESIGN:

INFILTRATION/RETENTION FACILITY TANK:
LENGTH = 16m WIDTH = 6.4m STORAGE DEPTH = 1.36m
RETENTION STORAGE PROVIDED (TANK) = 16m x 6.4m x 1.36m x 95% = 132.3 m³
RETENTION STORAGE PROVIDED (TANK GRAVEL SURROUND) = 20.7m³
INFILTRATION VOLUME RELEASED IN 24hrs = 2.78E-06 x 16 x 6.4 x 86400 = 24.6m³
TOTAL RETENTION VOLUME = 177.6 m³

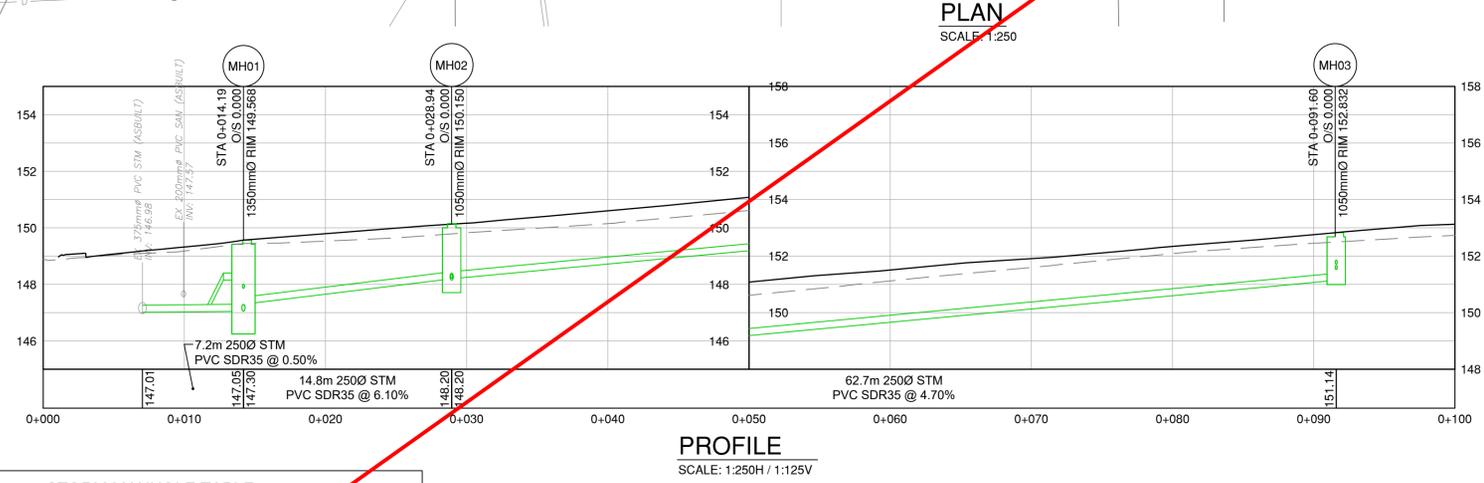
STORM WATER INFILTRATION CAPACITY:

IMP(%)	AREA	RETENTION VOL REQ'D	RETENTION VOL PROVIDED
ROADS, DRIVEWAYS, ROOFTOPS	100	5100m ²	173.4m ³
24 HOURS RETENTION CAPACITY = 177.6 m ³ / 5100 m ² = 35mm			

NOT INCLUDED AS PART OF CONTRACT 80245

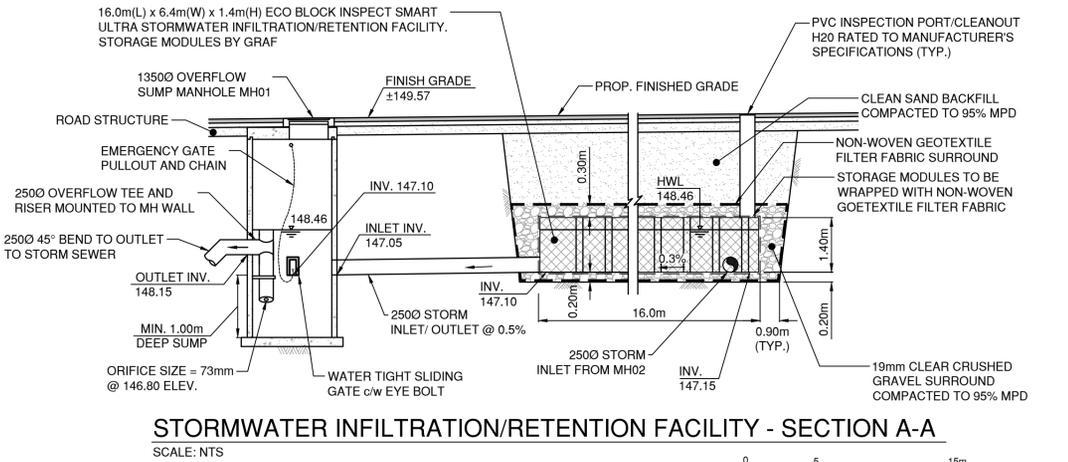


FLOW CONTROL MANHOLE MH01 - PLAN DETAIL
SCALE: NTS



PROFILE
SCALE: 1:250H / 1:125V

MH No.	RIM EL.	PIPE INV.	LOCATION	TYPE
MH01	RIM = 149.57	N In 147.30 SE Out 147.05 E In 147.86 W Out 147.05	STA. 0+014.186 O/S 0.000 T	1,350mm MH AS PER MMCD S1 (FLOW CONTROL MANHOLE)
MH02	RIM = 150.15	S Out 148.20 N In 148.20 E In 148.22 W Out 148.15	STA. 0+028.936 O/S 0.000 T	1,050mm MH AS PER MMCD S1
MH03	RIM = 152.83	S Out 151.14 NE In 151.52 NW In 151.71	STA. 0+091.595 O/S 0.000 T	1,050mm MH AS PER MMCD S1



STORMWATER INFILTRATION/RETENTION FACILITY - SECTION A-A
SCALE: NTS

ISSUED FOR CONSTRUCTION DESIGN NO. 1:250 33948

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
0	ISSUED FOR CONSTRUCTION	2026/01/30	GA	CJB

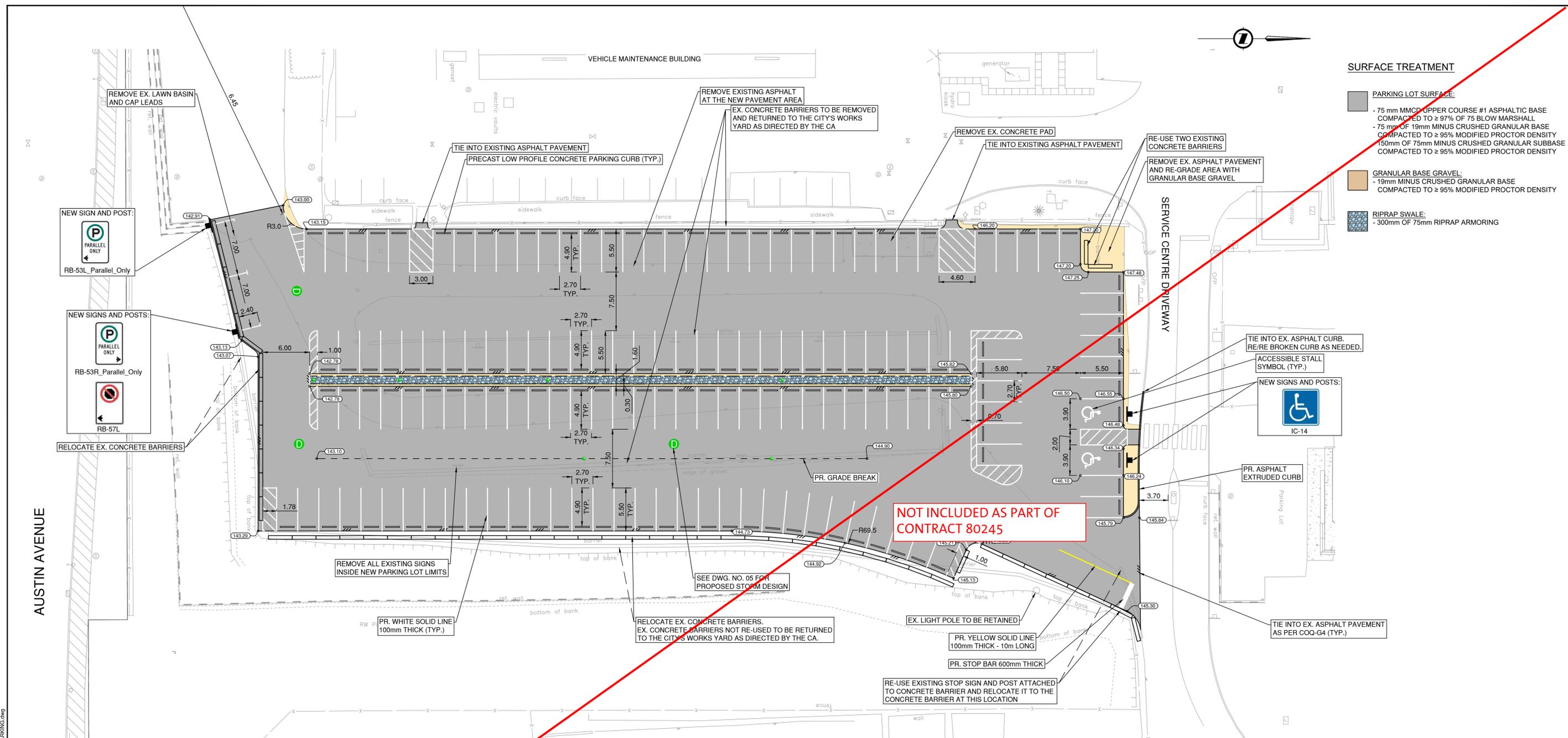


STORM SEWER

PARKS PARKING LOT - STORM DESIGN
AUSTIN WORKS YARD

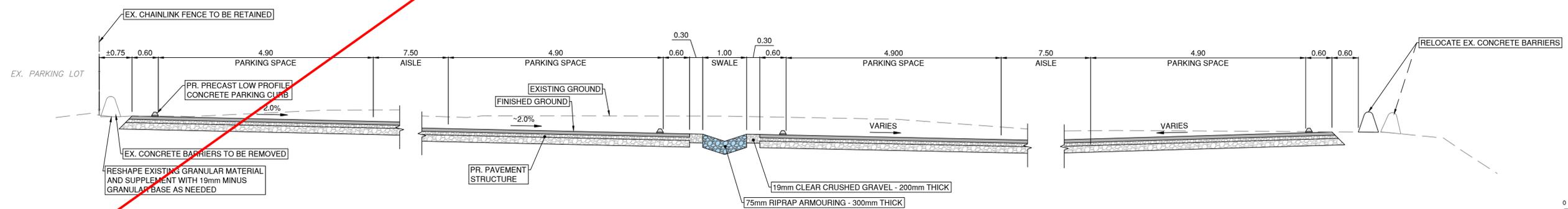


SCALE	AS SHOWN	CREATION DATE	JULY - 2024	DWG. NO.
DRAWN BY	GA	DESIGN BY	GA	03
CHECKED BY	CJB	APPROVED BY	CJB	05
PLOT DATE	January 30, 2026			REV. 0



- SURFACE TREATMENT**
- PARKING LOT SURFACE:**
 - 75 mm MMCD UPPER COURSE #1 ASPHALTIC BASE COMPACTED TO ≥ 97% OF 75 BLOW MARSHALL
 - 75 mm OF 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥ 95% MODIFIED PROCTOR DENSITY
 - 150mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO ≥ 95% MODIFIED PROCTOR DENSITY
 - GRANULAR BASE GRAVEL:**
 - 19mm MINUS CRUSHED GRANULAR BASE COMPACTED TO ≥ 95% MODIFIED PROCTOR DENSITY
 - RIPRAP SWALE:**
 - 300mm OF 75mm RIPRAP ARMORING

PLAN
SCALE: 1:250



PARKING LOT - TYPICAL SECTION
SCALE: 1:50

ISSUED FOR CONSTRUCTION

33948

REV. NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
0	ISSUED FOR CONSTRUCTION	2026/01/30	GA	CJB



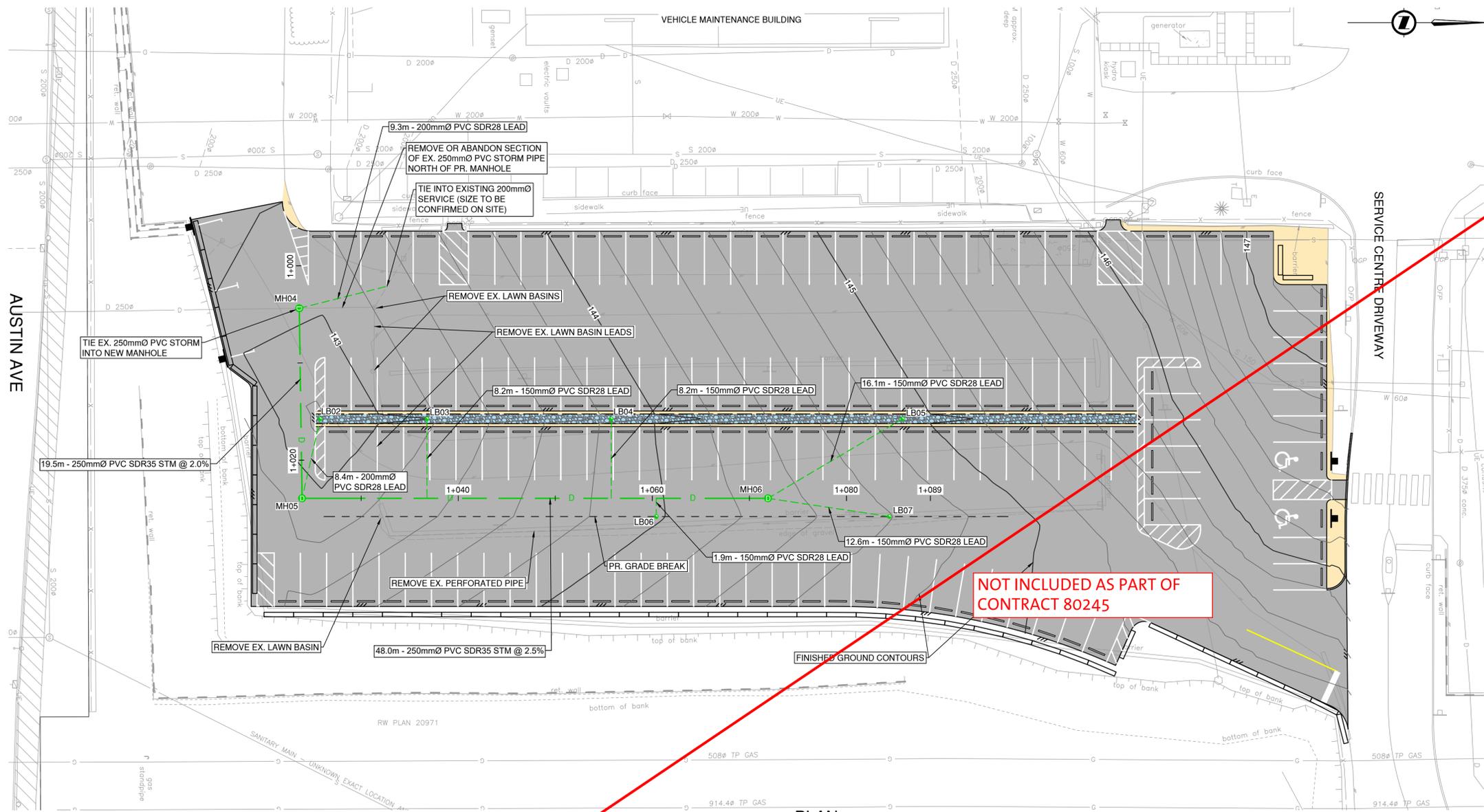
ROAD WORKS

STAFF PARKING LOT UPGRADES
AUSTIN WORKS YARD

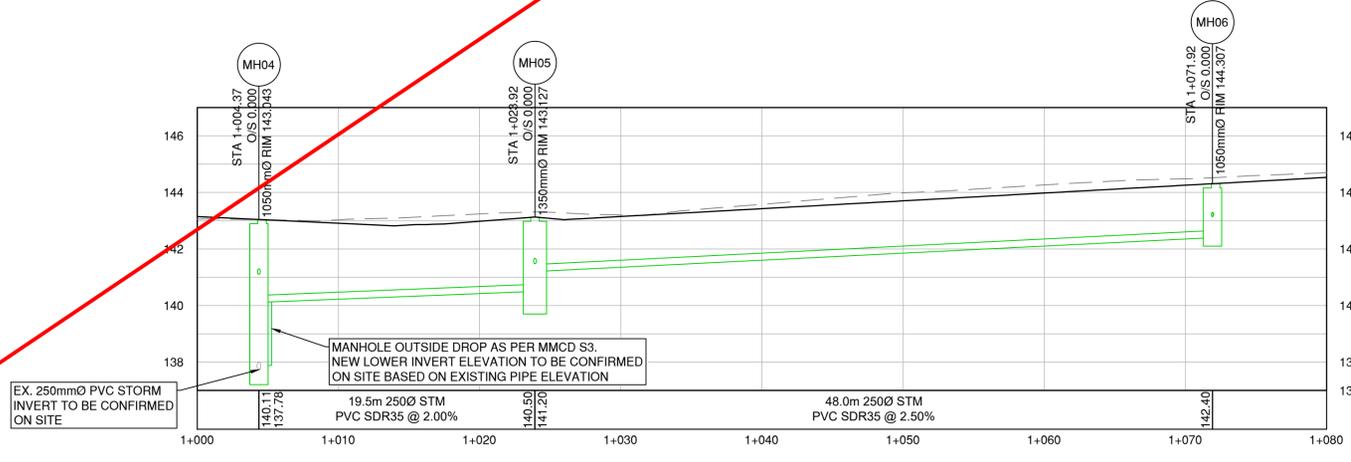


SCALE	AS SHOWN	CREATION DATE	JULY - 2024	DWG. NO.
DRAWN BY	GA	DESIGN BY	GA	04 OF 05
CHECKED BY	CJB	APPROVED BY	CJB	REV. 0
PLOT DATE	December 2, 2025			

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PLAN
SCALE: 1:250



PROFILE
SCALE: 1:250H / 1:50V

CATCH BASIN AND LAWN BASIN TABLE			
CB No.	RIM EL.	LOCATION	TYPE
LB02	142.600	STA. 1+015.772 O/S -1.989 LT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12
LB03	142.996	STA. 1+036.788 O/S -8.175 LT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12
LB04	143.680	STA. 1+055.768 O/S -8.175 LT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12
LB05	144.761	STA. 1+065.788 O/S -8.175 LT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12
LB06	143.977	STA. 1+060.408 O/S 1.878 RT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12
LB07	144.592	STA. 1+084.408 O/S 1.875 RT	600mm TYPE 2 LAWN BASIN AS PER MMCD S12

STORM MANHOLE TABLE				
MH No.	RIM EL.	PIPE INV.	LOCATION	TYPE
MH03	RIM = 143.04	E In 140.11 N In 141.10 S Out 137.73 DROP 137.78	STA. 1+004.370 O/S 0.000 T	1,050mm MH AS PER MMCD S1
MH04	RIM = 143.13	W Out 140.50 N In 141.20 W In 141.47	STA. 1+023.919 O/S 0.000 T	1,350mm MH AS PER MMCD S1 (FLOW CONTROL MANHOLE)
MH05	RIM = 144.31	S Out 142.40 NW In 143.14 N In 143.14	STA. 1+071.918 O/S 0.000 T	1,050mm MH AS PER MMCD S1



ISSUED FOR CONSTRUCTION

33948

REV NO.	REVISION DESCRIPTION	DATE	DRAWN	APPRD
0	ISSUED FOR CONSTRUCTION	2026/01/30	GA	CJB



STORM
SEWER

STAFF PARKING LOT - STORM DESIGN
AUSTIN WORKS YARD



SCALE		AS SHOWN		CREATION DATE		JULY - 2024		DWG. NO.	
DRAWN BY	GA	DESIGN BY	GA	CHECKED BY	CJB	APPROVED BY	CJB		05 OF 05
PLOT DATE	January 30, 2026								REV. 0

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