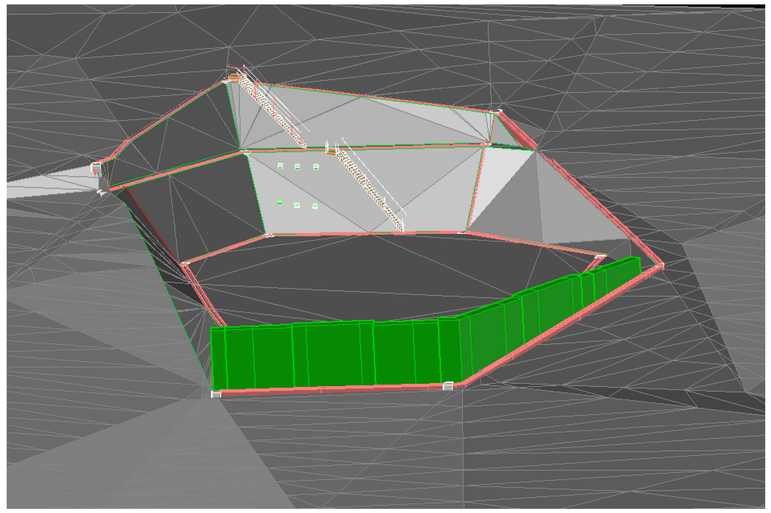
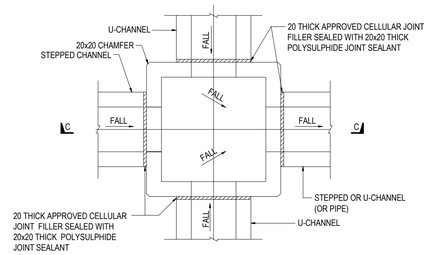
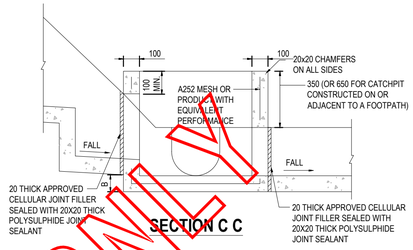
SITE FORMATION BLOCK PLAN
NTS.



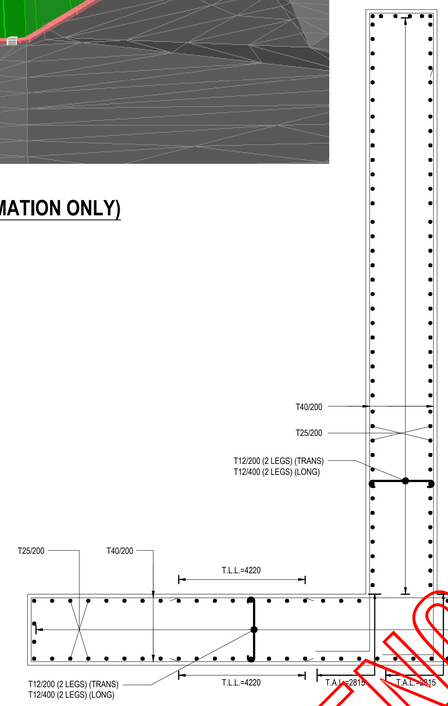
OVERVIEW IN 3D (FOR INFORMATION ONLY)
NTS.



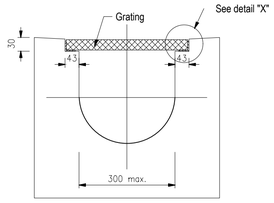
STANDARD CATCHPIT DETAILS



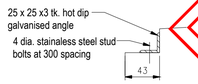
SECTION C C



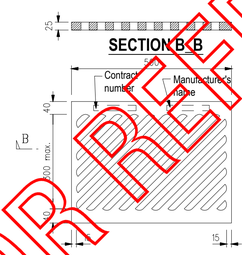
T-SHAPED RETAINING WALL R.C. DETAIL
N.T.S



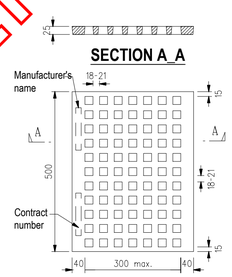
TYPICAL CROSS SECTION OF CHANNEL



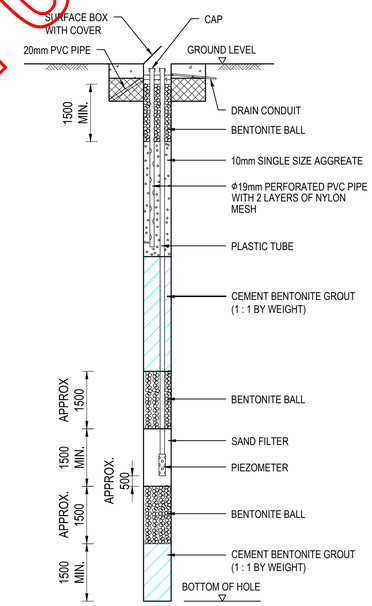
DETAIL "X"
(Scale 1:5)



GRANTING - OBLIQUE BARS PATTERN
(All slots and ribs are 18 in width. Exact no. of slots and ribs to be adjusted to suit channel width)



GRANTING - SQUARE HOLES PATTERN
(All hole are 25 x 25 in size and all ribs are of equal width. Exact no. of holes and ribs to be adjusteed to suit channel width)



STANDPIPE / PIEZOMETER
N.T.S.

NOTES

1. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING FACILITIES AND DRAINAGE SYSTEM WITHIN AND NEARBY THE SITE UNLESS OTHERWISE INSTRUCTED BY THE SUPERVISOR.
2. ANY UTILITIES SHOWN ON THIS PLAN ARE INDICATIVE ONLY.THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE EXACT LOCATIONS AND ALIGNMENT ON SITE.
3. IF THE CUT SLOPE TO BE LAST FOR MORE THAN A YEAR, SHOTCRETE OR SIMILAR SLOPE SURFACE PROTECTIVE MEASURE SHALL BE APPLIED.
4. TEMPORARY DRAINAGE REFER TO TEMPORARY DRAINAGE MANAGEMENT PLAN.
5. IF THE LOADING OR GROUNDWATER CONDITIONS ARE DEVIATED FROM THE DESIGN ASSUMPTIONS, FURTHER DESIGN OR CHECKING SHALL BE REQUIRED TO CONFIRM THE MAXIMUM CUT SLOPE ANGLE.
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE PARTICULAR REQUIREMENTS WHICH ARE SHOWN ON INDIVIDUAL DRAWINGS.
7. UNLESS OTHERWISE SPECIFIED, THESE GENERAL NOTES ARE APPLICABLE TO ALL GEOTECHNICAL WORKS OF SITE FORMATION.
8. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006 OR OTHERWISE SPECIFIED.
9. THE BOTTOM OF THE EXCAVATION SHALL BE KEPT DRY. WATERFLOW INTO THE EXCAVATION SHALL BE PUMPED TO SAFE DISCHARGE POINT TO AVOID PONDING AT BASE OF EXCAVATION.
10. ALL EXCAVATION WORK SHALL NOT REDUCE THE REQUIRED STABILITY OF THE SLOPE.
11. IF DURING EXECUTION OF THE WORKS, THE GROUND CONDITIONS ARE FOUND TO BE SUBSTANTIALLY DIFFERENT FROM THE DESIGN, THE ENGINEER MAY CHANGE THE DESIGN AND THE EXTENT OF THE WORKS IN ORDER TO ADDRESS THE ACTUAL GROUND CONDITIONS.
12. DURING THE EXECUTION OF WORKS, RECORDS SHALL BE SUBMITTED TO THE ENGINEER OF THE GROUND ENCOUNTERED. THESE RECORDS SHALL INCLUDE THE LEVELS OF SOIL AND ROCK ACROSS THE SLOPE FACE, THE OCCURRENCE OF GROUNDWATER AND THE LOCATIONS OF ANY VOIDS OR WEAK OR WET GROUND.
13. REGULAR CLEAN-UP OF DIESEL AND OIL SPILLS SHALL BE CARRIED OUT TO PREVENT CONTAMINATION OF SURFACE DRAINAGE WATER.

DIMENSIONS, LEVELS & SETTING-OUT

1. COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE SPECIFIED.
2. LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (mPD) UNLESS OTHERWISE SPECIFIED.
3. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
4. SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
5. SETTING OUT OF ALL SLOPES SHALL BE VERIFIED BY THE CONTRACTOR AND AGREED WITH THE ENGINEER ON SITE.

UTILITIES

1. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS OF THE EXISTING UTILITIES AFFECTING OR TO BE AFFECTED BY THE WORKS USING INSPECTION PITS OR OTHER MEANS AS RECOMMENDED BY THE RELEVANT UTILITY / SERVICES COMPANIES OR PARTIES CONCERNED.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CARE NOT TO DAMAGE ANY EXISTING UTLITIES OR SERVICES WITHIN OR IN THE VICINITY OF THE WORKS SITE AND WORKS AREA AND SHALL PROVIDE NECESSARY PROTECTION AND SUPPORT TO THE EXISTING UTLITIES OR SERVICES ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT OF UTILITY / SERVICES COMPANIES OR PARTIES CONCERNED DURING THE EXECUTION WORKS. SHOULD ANY DAMAGE OCCUR TO THE UTILITIES / SERVICES DUE TO THE THE WORKS, SHOULD ANY DAMAGE OCCUR TO THE UTILITIES / SERVICES DUE TO THE CONTRACTOR'S WORKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COST INCURRED FROM THE DAMAGE.

THE PROTECTION OF EARTHWORKS AGAINST HEAVY RAINFALL

1. SURFACE WATER FLOWING INTO THE SITE FROM UPHILL SHALL BE INTERCEPTED AND CONDUCTED FROM THE SITE TO SAFE DISCHARGE POINT. AT EACH INTERSECTION AND ABRUPT CHANGE IN DIRECTION OF SURFACE DRAINAGE CHANNELS AN ACCESSIBLE CATCHPIT SHALL BE PROVIDED, ALL DRAINAGE WORKS SHALL BE KEPT CLEAR OF DEBRIS.
2. WHERE PARTIALLY COMPLETED DRAINAGE WORKS DISCHARGE WITHIN THE SITE, A TEMPORARY CONDUIT SHALL BE PROVIDED TO THE DISCHARGE POINT.
3. ALL EARTHWORKS SHALL BE GRADED AND SEALED TO ENSURE RUN-OFF AND TO AVOID PONDING.
4. A METHOD OF WORKING SHALL BE ADOPTED IN WHICH THE MINIMUM OF BARE SOIL IS EXPOSED AT ANY TIME. EARTHWORK TO FORM THE FINAL FACE SHALL BE FOLLOWED UP IMMEDIATELY WITH SURFACE PROTECTION AND DRAINAGE WORKS AND THE FACE PANEL SIZE SHALL BE ENOUGH TO PERMIT THIS.
5. EXCAVATION SHALL NOT BE LEFT OPEN ON OR ADJACENT TO SLOPES.
6. IF TRENCHES ON OR ADJACENT TO SLOPE HAVE TO BE EXCAVATED DURING THE WET SEASON, THIS SHALL BE DONE WITH EXTREME CARE IN SHORT SECTIONS AT A TIME. PRECAUTIONS SHALL ALWAYS BE TAKEN TO PREVENT WATER FROM ENTERING AND COLLECTING IN THE TRENCH.
7. WHERE TEMPORARY BARE EARTH SLOPE FACES ARE UNAVOIDABLE, THEY SHALL BE PROTECTED WITH IMPERMEABLE SHEETING WELL-SECURED AGAINST THE WIND. WHERE SLOPE FACES ARE TO BE TEMPORARILY EXPOSED FOR MORE THAN TWO WEEKS TEMPORARY HARD SURFACING SHALL BE PROVIDED AND TEMPORARY DRAINS SHALL BE INSTALLED.

FOR REFERENCE ONLY
FOR REFERENCE ONLY

BD REF :
BIM REF :

REV	DATE	AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
SITE FORMATION BLOCK PLAN

SCALE As indicated@A1

DRAWING NO. T001 REV. NO.

SOURCE ---

90mm (W) x 40mm (H) space for COMPANY LOGO

90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD's OFFICAL USE

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

LEGEND:

- SITE BOUNDARY
- EL. +5.00 SLOPE BERM / PLATFORM LEVEL
- 225UC U-CHANNEL
- RETAINING WALL
- CATCHPIT WITHOUT COVER
- SN SOIL NAIL
- SOIL CUT SLOPE
- SOIL FILL SLOPE
- ROCK CUT SLOPE
- ROCK FILL SLOPE
- 150 / 151 EXISTING GROUND PROFILE
- 150 / 151 FINAL SITE FORMATION LEVEL
- DH1 PROPOSED VERTICAL DRILLHOLE WITH STANDPIPE / PIEZOMETER
- DH2 AVAILABLE EXISTING DRILLHOLES NEARBY THE PROJECT SITE

RETAINING WALL SCHEDULE

RETAINING WALL NO.	WALL FOUNDING MATERIALS	WALL BOTTOM LEVEL (mPD)	WALL TOP LEVEL (mPD)	WALL LENGTH (m)	WALL HEIGHT (m)
RW1A	CONCRETE	75.100	85.457	6.88	9.357
RW1		75.100	85.457	1.83	9.357
RW2		75.100	85.700	8.71	10.600
RW3		75.100	85.491	10.15	10.391
RW4		75.100	85.300	6.12	10.200
RW5		75.600	85.500	7.55	9.900
RW6		77.200	85.400	6.24	8.200
RW6A		77.200	85.400	1.31	8.200

SOIL NAIL SCHEDULE

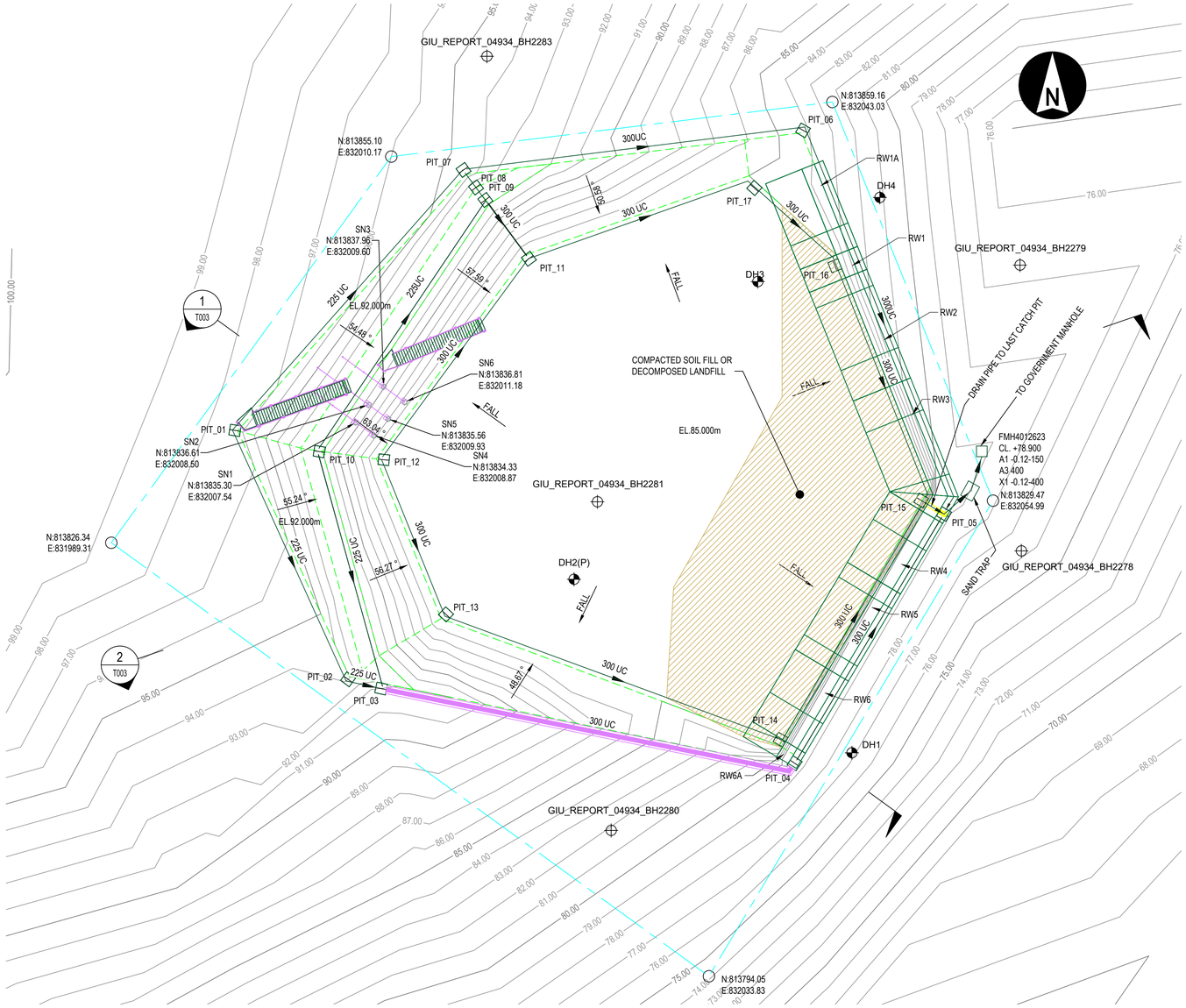
MARK	TYPE	SOIL NAIL DIA.	NORTHING	EASTING	ELEVATION (mPD)	SOIL NAIL INCLINATION	Hole Dia(mm)	Soil Nail total Length (mm)	Design Anchirage Length (mm)	Bearing Angle
SN1	Nail Head_800x800	50	813835.295	832007.543	90.856	20.00°	100	4000	1500	155.00°
SN2	Nail Head_800x800	50	813836.607	832008.495	90.751	20.00°	100	4000	1500	155.00°
SN3	Nail Head_800x800	50	813837.956	832009.604	90.741	20.00°	100	4000	1500	155.00°
SN4	Nail Head_800x800	50	813834.333	832008.869	87.817	20.00°	100	4000	1500	155.00°
SN5	Nail Head_800x800	50	813835.564	832009.933	87.499	20.00°	100	4000	1500	155.00°
SN6	Nail Head_800x800	50	813836.811	832011.183	87.465	20.00°	100	4000	1500	155.00°

CATCHPIT SCHEDULE

CATCHPIT NAME	Catchpit Base Slab Depth (mm)	EASTING	NORTHING	CATCHPIT WIDTH (mm)	CATCHPIT LENGTH (mm)	CATCHPIT DEPTH (mm)	CATCHPIT MATERIAL	CATCHPIT TOP LEVEL (mPD)	CATCHPIT INVERT LEVEL (mPD)
FMH4012623	150	832054.156	813833.144	800	800	655	Concrete Grade 20/20	78.900	78.250
PIT_01	150	831998.530	813834.705	800	800	425	Concrete Grade 20/20	97.492	97.067
PIT_02	150	832006.946	813816.170	800	800	655	Concrete Grade 20/20	93.997	93.342
PIT_03	150	832009.415	813815.479	800	800	655	Concrete Grade 20/20	91.994	91.339
PIT_04	150	832040.211	813809.921	800	800	655	Concrete Grade 20/20	79.450	78.795
PIT_05	150	832051.335	813828.475	800	800	655	Concrete Grade 20/20	79.240	78.858
PIT_06	150	832040.839	813857.052	800	800	655	Concrete Grade 20/20	84.190	83.535
PIT_07	150	832015.553	813854.103	800	800	655	Concrete Grade 20/20	94.589	93.934
PIT_08	150	832016.485	813852.797	800	800	655	Concrete Grade 20/20	92.350	91.695
PIT_09	150	832017.175	813851.862	800	800	655	Concrete Grade 20/20	92.000	91.350
PIT_10	150	832004.808	813833.124	800	800	655	Concrete Grade 20/20	92.230	91.575
PIT_11	150	832020.420	813847.490	800	800	655	Concrete Grade 20/20	84.830	84.175
PIT_12	150	832009.615	813832.519	800	800	655	Concrete Grade 20/20	85.000	84.345
PIT_13	150	832014.243	813821.001	800	800	655	Concrete Grade 20/20	84.890	84.235
PIT_14	150	832039.157	813811.679	800	800	655	Concrete Grade 20/20	84.630	83.975
PIT_15	150	832049.642	813829.492	800	800	655	Concrete Grade 20/20	84.410	83.755
PIT_16	150	832043.215	813846.967	800	800	655	Concrete Grade 20/20	84.580	83.925
PIT_17	150	832037.217	813852.757	800	800	655	Concrete Grade 20/20	84.660	84.005
SAND TRAP	150	832053.290	813830.186	1200	1200	1000	Concrete Grade 20/20	79.400	78.400

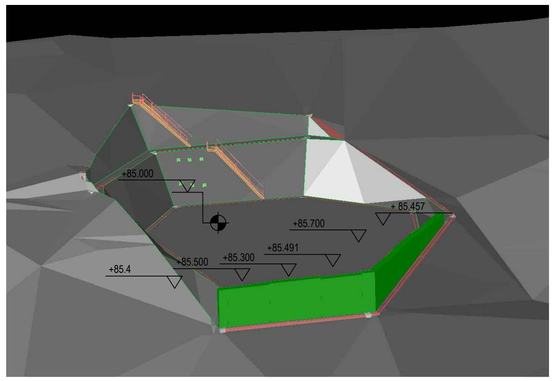
GI SCHEDULE

MARK	EASTING	NORTHING
DH1	832044.484	813810.690
DH2(P)	832023.778	813823.615
DH3	832037.467	813845.788
DH4	832046.564	813852.050



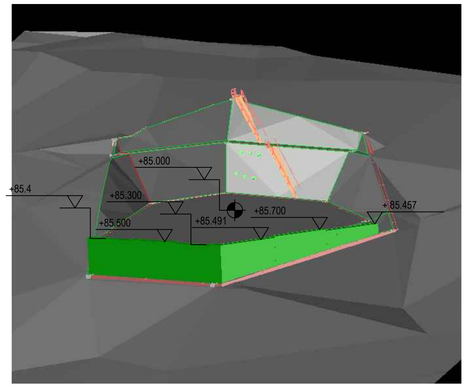
SITE FORMATION LAYOUT PLAN

1:200



3D VIEW FROM SOUTH (FOR INFORMATION ONLY)

NTS.



3D VIEW FROM EAST (FOR INFORMATION ONLY)

NTS.

BD REF :

BIM REF :

REV	DATE	AMENDMENT

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

SITE FORMATION LAYOUT PLAN

SCALE As indicated@A1

DRAWING NO. T002

REV. NO.

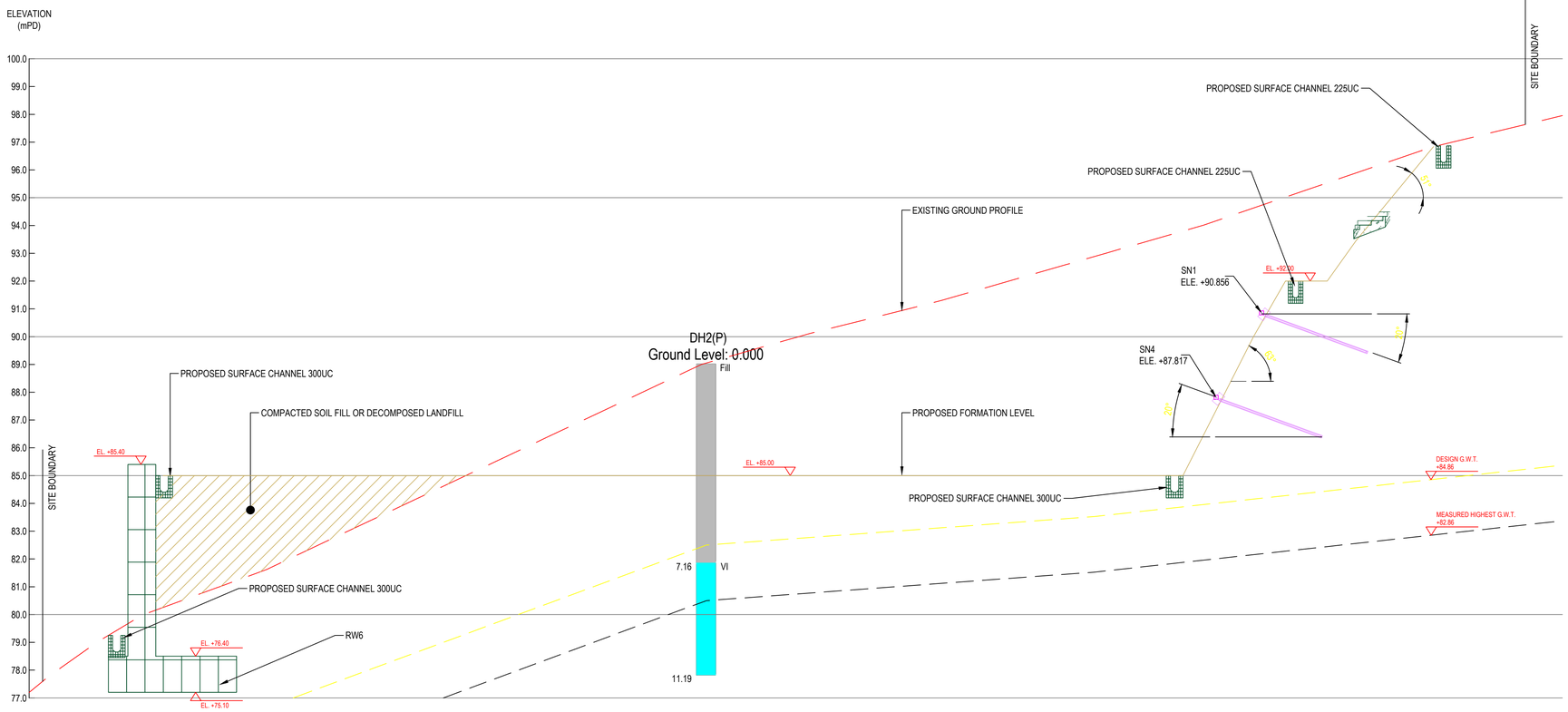
SOURCE ---

90mm (W) x 40mm (H) space for COMPANY LOGO

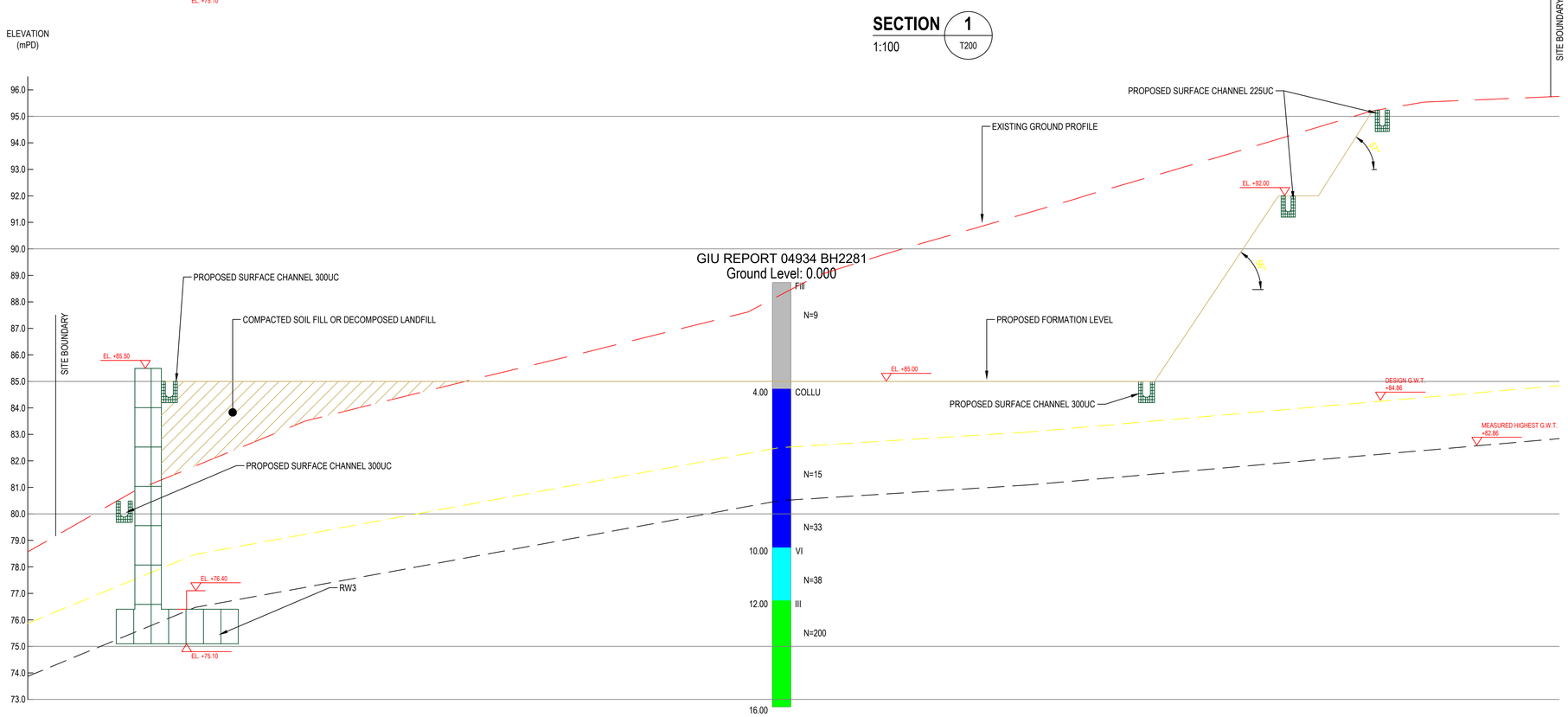
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD's OFFICAL USE

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)



SECTION 1
1:100 T200



SECTION 2
1:100 T200

BD REF :

BIM REF :

REV	DATE	AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
SITE FORMATION SECTION

SCALE 1 : 100@A1

DRAWING NO. T003

REV. NO.

SOURCE ---

90mm (W) x 40mm (H) space
for COMPANY LOGO

90mm (W) x 60mm (H) space
for AP/RSE/RGE's
signature/ and stamp chop

BD's OFFICAL USE

90mm (W) x 150mm (H) space
for BD's approval stamp /
certification of copies of
approved plans
(PNAP ADM-10 APP A)