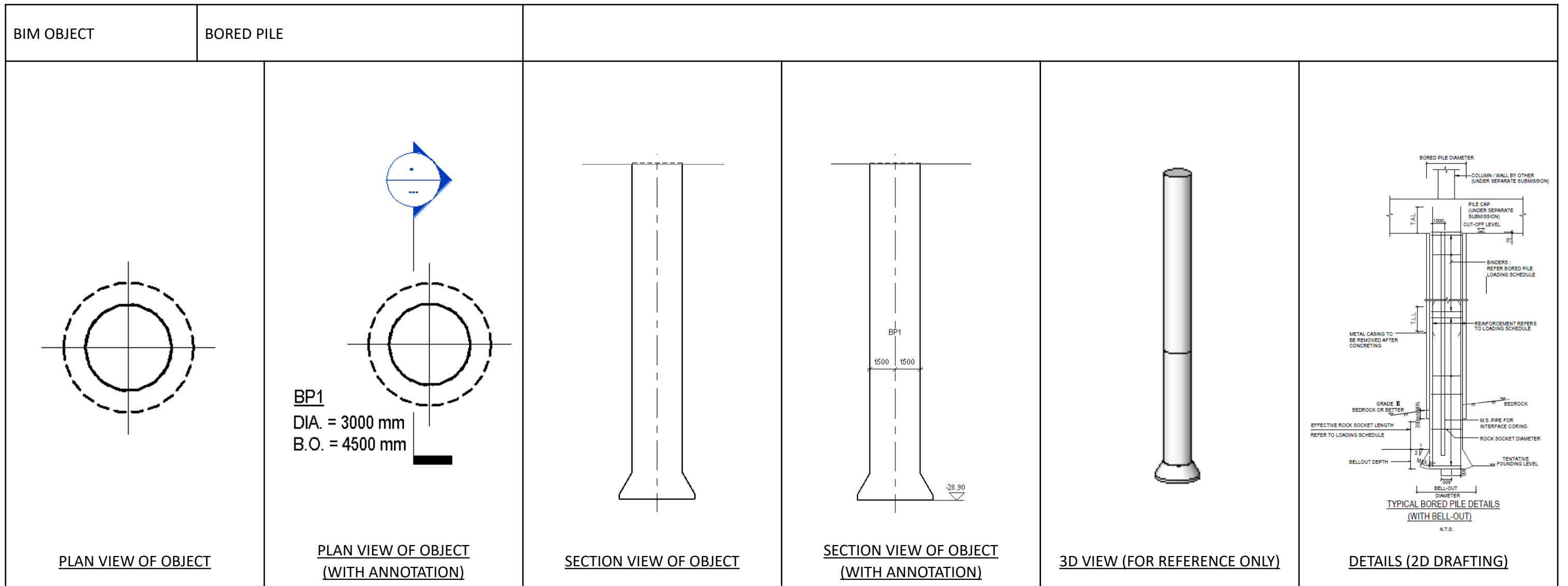


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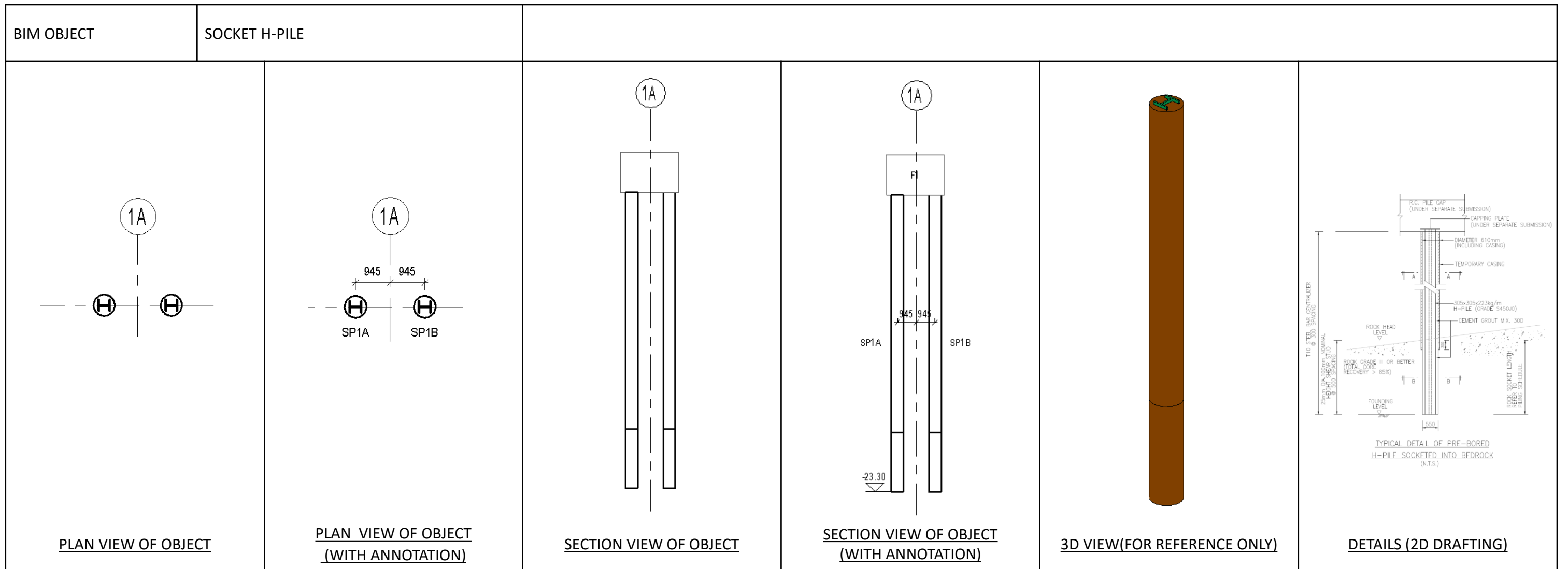


■ Geometrical information ■ Non-geometrical information ■ Schedule formula

BORED PILE LOADING SCHEDULE (1 OF 2)																						
BORED PILE MARK	BORED PILE CAP THICKNESS (FOR REFERENCE ONLY)	BORED PILE DIAMETER	BORED PILE EFFECTIVE SHAFT DIAMETER	ROCK SOCKET DIAMETER	PILE BASE DIAMETER	(X)	(AA)	(W)	(Z)	(AB)/(AA)(Z)	(Y)	(e)	(b)	(d)=(e)-(b)	(d)	(c)-(d)	(e)	(f)=(b)-(d)-(e)	(h)	(i)	(j)	(k)
						BELLOUT DEPTH	CUT-OFF LEVEL	TENTATIVE ROCKHEAD LEVEL	TENTATIVE FOUNDING LEVEL	TENTATIVE PILE LENGTH	EFFECTIVE ROCK SOCKET LENGTH	SELF-WEIGHT OF BORED PILE (SUBMERGED) (SWP)	D _{min} (total)	D _{min} + SWP	SDL (total)	TOTAL DEAD LOAD (DL) = D _{min} + SDL	LIVE LOAD (LL) (total)	DL + SDL + LL	W _{max} (total)	TOTAL UPLIFT FORCE DUE TO GROUND WATER (U)	ADDITIONAL LOAD DUE TO STEPPING EFFECT	WITHOUT WIND
(m)	(m)	(m)	(m)	(m)	(m)	(m)	(mFC)	(mFC)	(mFC)	(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
BP1	2.5	3.0	2.80	2.80	4.5	1.50	-8.775	-45.5	-50.90	42.125	3.6	3820	43000	46820	14700	57700	13700	71400	18500	-20400	80	99

BORED PILE LOADING SCHEDULE (2 OF 2)																							
BORED PILE MARK	MAX. PILE LOAD				MIN. PILE LOAD			VERTICAL BARS		LINKS	PILE BARING CAPACITY (COMPRESSION)		ROCK FRICTION (COMPRESSION)		ROCK FRICTION (TENSION)	ROCK/SOIL MASS (SUBMERGED)	UPLIFT RESISTANCE		BORED PILE BEARING CAPACITY (COMPRESSION)		STABILITY CHECK		REFERENCE BORED HOLE
	DL + SDL + LL	DL + SDL + LL + W _{max}	DL + SDL + LL + Stepping Load	DL + SDL + LL + W _{max} + Stepping Load	D _{min} + SWP - U	D _{min} + SWP - W _{max} - U	D _{min} + SWP - 1.5W _{max} - 1.5U	LAYER 1	LAYER 2		WITHOUT WIND	WITH WIND	WITHOUT WIND	WITH WIND			ALLOWABLE	ULTIMATE	WITHOUT WIND	WITH WIND	D _{min} + 0.9Ru - 1.5W _{max} - 1.5U	D _{min} + Ra - W _{max} - U	
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
BP1	64000	78700	66700	81400	24700	10000	-5100	44 T50	40 T50	T16 / 200 (1 rings)	55230	69038	12150	15188	8020	15477	7859	18177	67380	84225	8559	15159	BH8

SCHEDULE

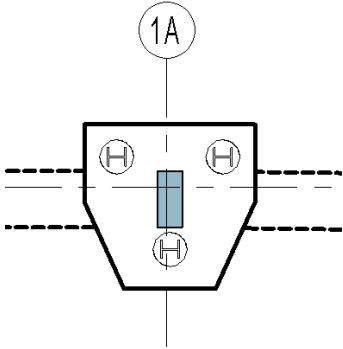
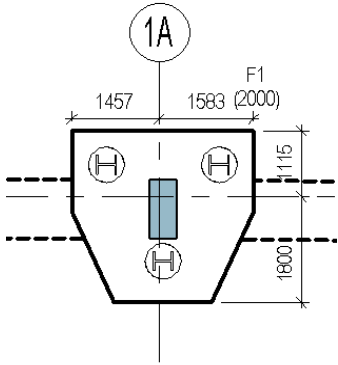
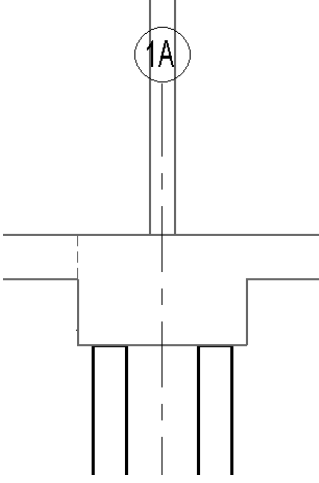
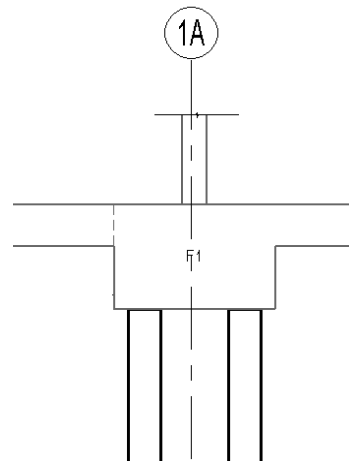
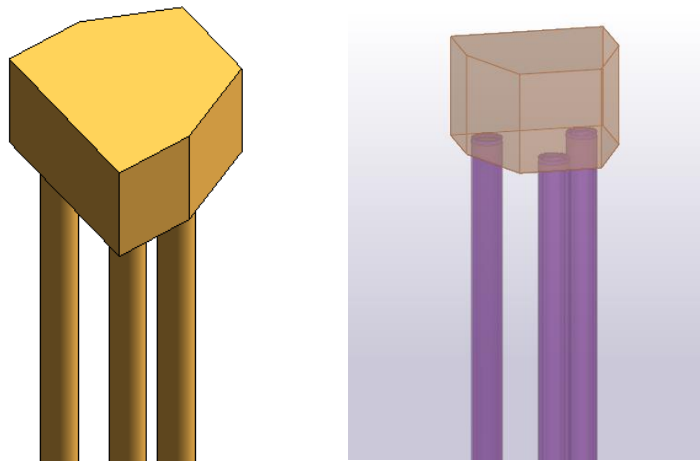


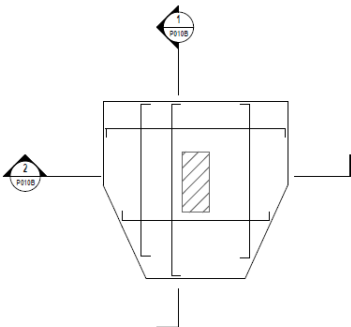
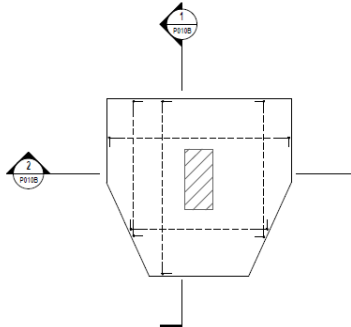
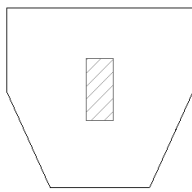
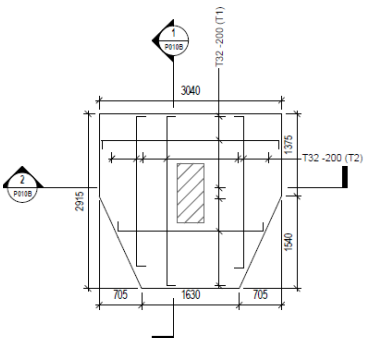
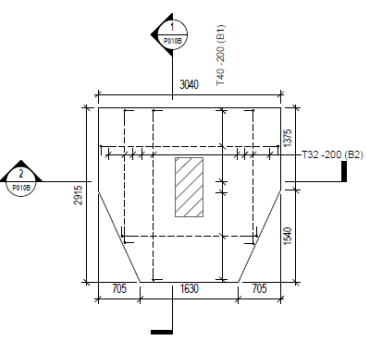
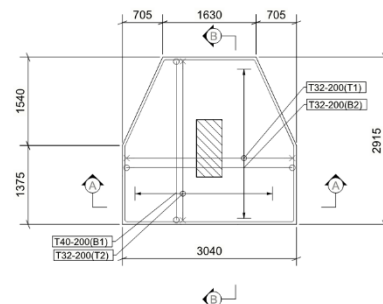



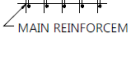



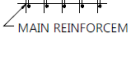



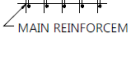
■ Geometrical information
 ■ Non-geometrical information
 ■ Schedule formula

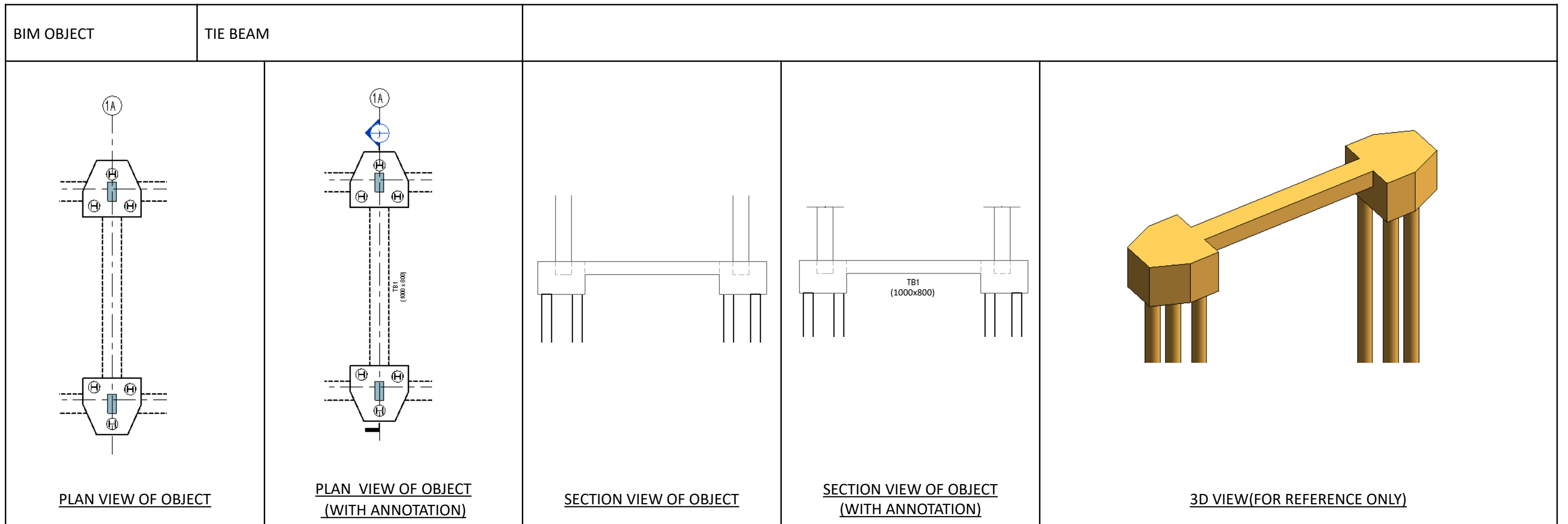
SOCKET H-PILE LOADING SCHEDULE (1 OF 2)																								
PILE MARK	PILE CAP THICKNESS (FOR REFERENCE ONLY)	(A)	(A)	(AA)	(w)	(Z)	(AB)	(Y)	(P1)	(P2)	(P3) = (P1) + (P2)	(a)	(P4) = (P3) + (a)	(b)	(d)	(b) + (d)	(e)	(f) = (b) + (d) + (e)	(h)	(i)	(j) = (i) * 1.25			
		PIPE EFFECTIVE SHAFT DIAMETER	ROCK SOCKET DIAMETER	PILE CAP BASE LEVEL	CUT-OFF LEVEL	TANTATIVE ROCK-HEAD LEVEL	TANTATIVE FOUNDING LEVEL	TENTATIVE PILE LENGTH	TENTATIVE PILE LENGTH ABOVE RH	EFFECTIVE ROCK SOCKET LENGTH	ROCK MASS (SUBMEGED)	SOIL MASS SURROUNDING PILE (SUBMERGED)	ROCK/SOIL MASS (SUBMERGED) W/O PILE SELF-WEIGHT	SELF-WEIGHT (SUBMERGED) (SWP)	ROCK / SOIL MASS (SUBMERGED) W/ PILE SELF WEIGHT	Min DEAD LOAD PER PILE (Dmin)	SOL PER PILE	TOTAL DEAD LOAD (DL) = Dmin + SDL	LIVE LOAD (LL)	DL + SDL + LL	Wmax PER PILE	UPLIFT FORCE PER PILE (AT THE BOTTOM OF CAP) (U)	WITHOUT WIND	WITH WIND
	(m)	(m)	(mPD)	(mPD)	(m)	(m)	(m)	(m)	(m)	(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
SP1A	2.0	0.61	0.61	-8.35	-8.275	-46.3	-53.3	45.025	38.025	7	200	5112	5312	230	5542	2197	1233	3430	1067	4497	333	-2500	441	551
SP1B	2.0	0.61	0.61	-8.35	-8.275	-46.3	-53.3	45.025	38.025	7	200	5112	5312	230	5542	2197	1233	3430	1067	4497	333	-2500	441	551

SOCKET H-PILE LOADING SCHEDULE (2 OF 2)																
PILE MARK	(f)	(f)+(h)	(f)+(a)+(i)	(f)+(h)+(a)+(k)	(l)=(b)+(a)+(i)	(m)=(b)-(h)+(i)	(n)=(b)-1.5*(h)+1.5*(i)	(o)	(p)=(o)*1.25	(r1)	(p1) = (P3)	(a1)=Min of((r1),(p1)/3)+(a)	(u1)=Min of((r1)*2,(p1)+(a)	(b)+0.9*(u1)-1.5*(h)+1.5*(i)>0	(b)+(a1)-(h)+(i)>0	REFERENCE BORED HOLE
	MAX. PILE LOAD				MIN. PILE LOAD			PILE BARING CAPACITY (COMPRESSION)		ROCK FRICTION (TENSION)	ROCK/SOIL MASS (SUBMERGED)	UPLIFT RESISTANCE		STABILITY CHECK		
	DL + SDL + LL	DL + SDL + LL + Wmax	DL + SDL + LL + SWP + Stepping Load	DL + SDL + LL + Wmax + SWP + Stepping Load	Dmin + SWP - U	Dmin + SWP - Wmax - U	Dmin + SWP - 1.5Wmax - 1.5U	WITHOUT WIND	WITH WIND			Ra (kN)	Ru (kN)	Dmin + 0.9Ru - 1.5Wmax - 1.5U	Dmin + Ra - Wmax - U	
(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	
SP1A	4497	4830	5168	5611	-73	-407	-1823	6106	9159	3053	5312	2001	5542	2934	1364	BH1
SP1B	4497	4830	5168	5611	-73	-407	-1823	6106	9159	3053	5312	2001	5542	2934	1364	BH1

SCHEDULE

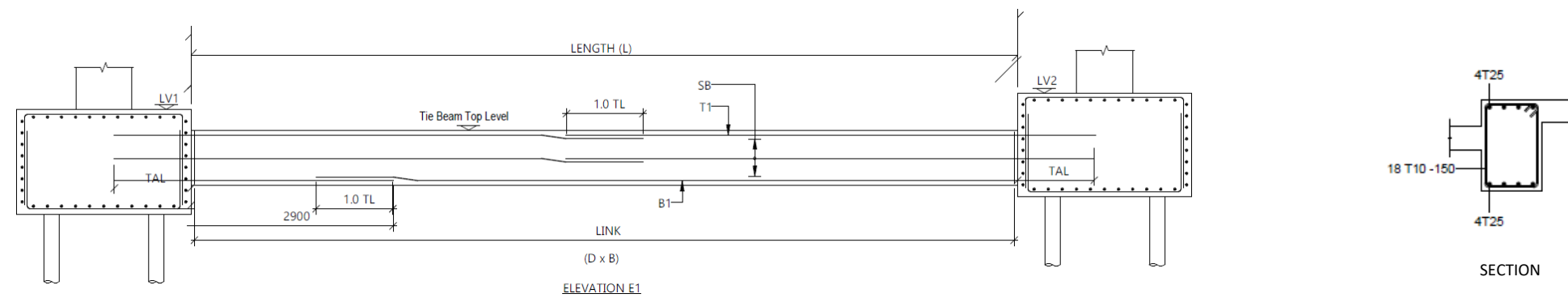
BIM OBJECT	PILE CAP					
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 <p data-bbox="201 1470 510 1512">PILE CAP F1 (2000mm THK.) TOP BAR 1:50</p>	 <p data-bbox="569 1470 908 1512">PILE CAP F1 (2000mm THK.) BOTTOM BAR 1:50</p>	 <p data-bbox="926 1831 1163 1921">PILE CAP F1 (2000mm THK.) (F2, F3, F4, F7 & F8 SIMILAR) (SHEAR REINFORCEMENT) 1:50</p>		 <p data-bbox="1528 1449 1825 1491">PILE CAP F1 (2000mm THK.) TOP BAR 1:50</p>	 <p data-bbox="1899 1449 2240 1491">PILE CAP F1 (2000mm THK.) BOTTOM BAR 1:50</p>	 <p data-bbox="2463 1449 2626 1491">PILE CAP F1 (2000mm THK.) (F2, F3, F4, F7 & F8 SIMILAR) 1:50</p> <p data-bbox="2507 1522 2834 1554">LEGEND FOR SHEAR LINK DIAGRAM:</p> <table border="1" data-bbox="2507 1554 2864 1911"> <thead> <tr> <th>PATTERN</th> <th>LINK ARRANGEMENT</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="2226 1827 2463 1911">PILE CAP F1 (2000mm THK.) (F2, F3, F4, F7 & F8 SIMILAR) (SHEAR REINFORCEMENT) 1:50</p>	PATTERN	LINK ARRANGEMENT				
PATTERN	LINK ARRANGEMENT											
												
												
<p data-bbox="647 1953 920 1984">RC DETAIL OF OBJECT</p>				<p data-bbox="1914 1953 2448 1984">RC DETAIL OF OBJECT WITH ANNOTATION</p>								

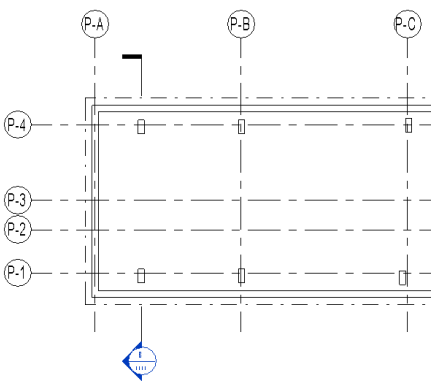
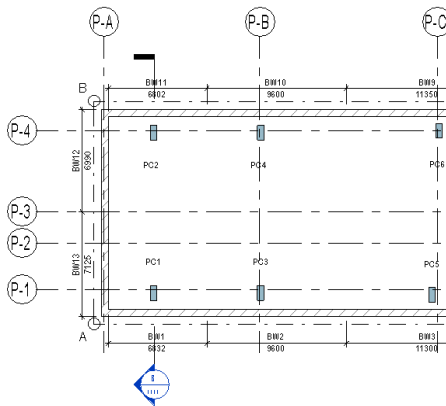
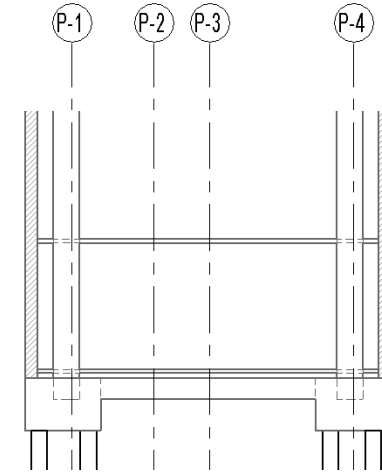
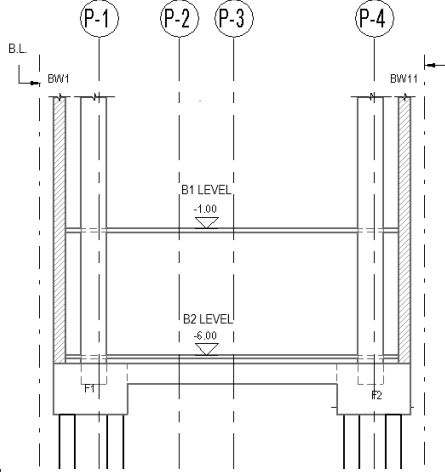
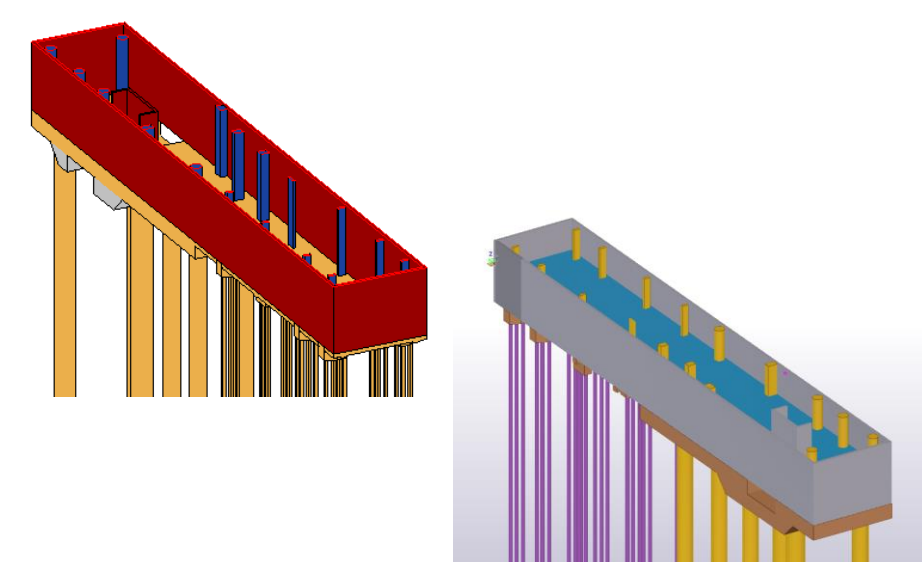


■ Geometrical information ■ Non-geometrical information ■ Schedule formula

TIE BEAM R.C. DETAILS SCHEDULE															
TIE BEAM MARK	BEAM SIZE (D x B)	LENGTH (m)	TIE BEAM TOP LEVEL (mPD)	PILE CAP (P1)	TOP LEVEL (Lv1) (mPD)	PILE CAP (P2)	TOP LEVEL (Lv2) (mPD)	STEEL BAR					LINK	SECTION REFERENCE	ELEVATION REFERENCE
								T1	T2	B1	B2	SB			
TB1	1000 x 800	10.935	-6.35	F1	-6.35	F2	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1
TB2	1000 x 800	7.385	-6.35	F1	-6.35	F3	-6.35	10T40	6T40	10T40	6T40	5T12 E.F.	T12-150 T.S.	SECTION S1	ELEVATION E1



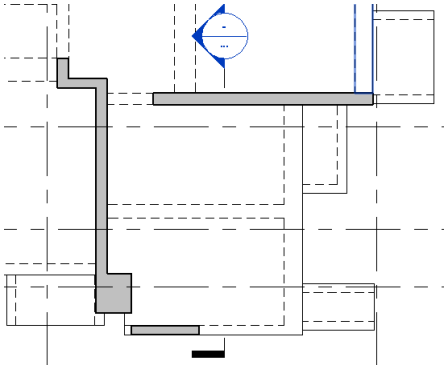
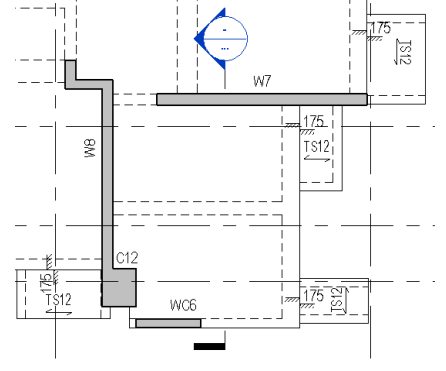
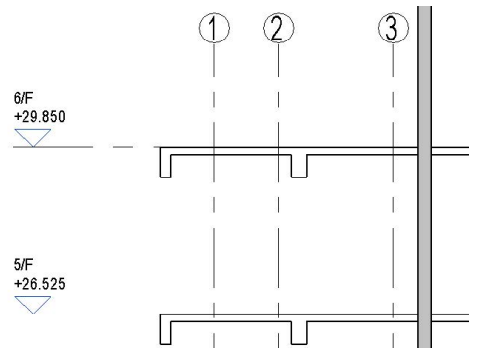
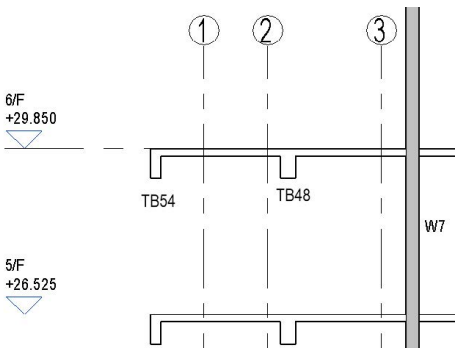
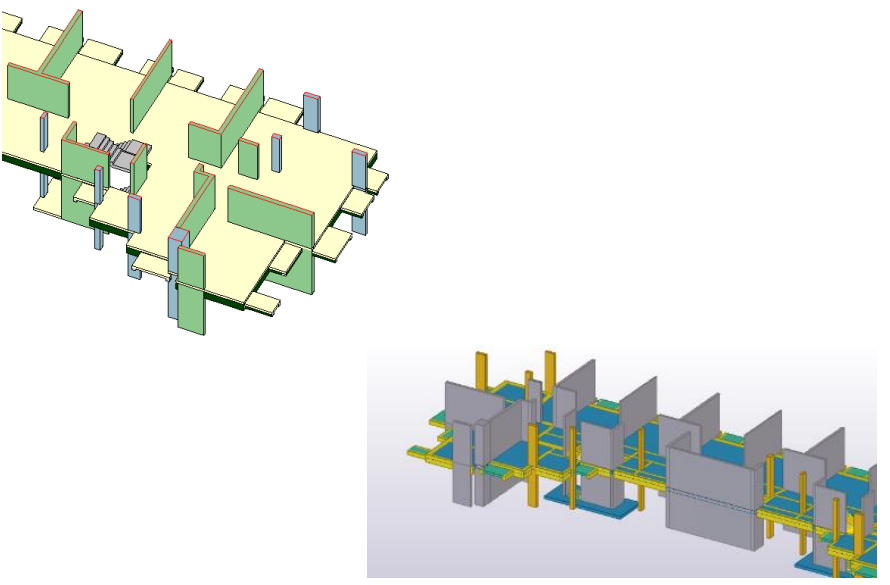
SCHEDULE

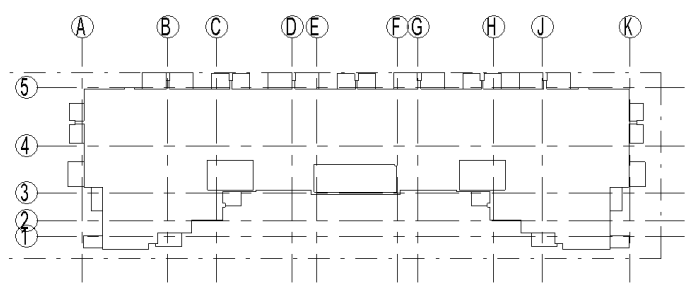
BIM OBJECT	SCREEN WALL			
				
PLAN VIEW OF OBJECT	PLAN VIEW OF OBJECT (WITH ANNOTATION)	SECTION VIEW OF OBJECT	SECTIONVIEW OF OBJECT (WITH ANNOTATION)	3D VIEW(FOR REFERENCE ONLY)

■ Geometrical information ■ Non-geometrical information ■ Schedule formula

WALL LOADING SCHEDULE ABOVE PILE CAP (1 OF 2)																															
WALL MARK	ANGLE	MIN DEAD LOAD (Dmin)						SDL						DEAD LOAD (DL) = Dmin + SDL						LIVE LOAD (LL)						DL + LL					
		P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)	P (kN)	Mx (kNm)	My (kNm)	Vx (kN)	Vy (kN)	Mz (kNm)
BW1	0	2300	0	-900	0	0	0	700	0	-500	0	0	0	3000	0	-1400	0	0	0	400	0	-200	0	0	0	3400	0	-1600	0	0	0
BW2	0	3200	0	-600	0	0	0	1100	0	-300	0	0	0	4300	0	-900	0	0	0	700	0	-100	0	0	0	5000	0	-1000	0	0	0
BW3	0	3200	0	-600	0	0	0	900	0	-300	0	0	0	4100	0	-900	0	0	0	600	0	-100	0	0	0	4700	0	-1000	0	0	0
BW4	0	2600	0	-300	0	0	0	400	0	-100	0	0	0	3000	0	-400	0	0	0	400	0	-100	0	0	0	3400	0	-500	0	0	0
BW5	0	11300	0	-2500	0	0	0	2200	0	2600	0	0	0	13500	0	100	0	0	0	4000	0	-3300	0	0	0	17500	0	-3200	0	0	0
BW6	90	4000	0	-2200	0	0	0	1000	0	-800	0	0	0	5000	0	-3000	0	0	0	1100	0	-600	0	0	0	6100	0	-3600	0	0	0
BW7	0	19600	0	-11400	0	0	0	5800	0	1800	0	0	0	25400	0	-9600	0	0	0	6000	0	-14700	0	0	0	31400	0	-24300	0	0	0
BW8	0	3400	0	500	0	0	0	800	0	300	0	0	0	4200	0	800	0	0	0	600	0	100	0	0	0	4800	0	900	0	0	0
BW9	0	2000	0	-200	0	0	0	200	0	-100	0	0	0	2200	0	-300	0	0	0	200	0	-200	0	0	0	2400	0	-500	0	0	0

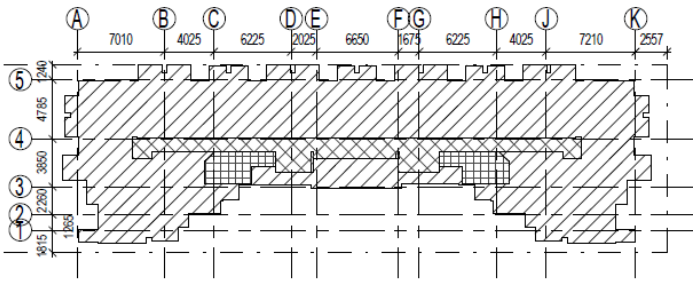
SCHEDULE

BIM OBJECT	SLAB			
 <p data-bbox="172 976 460 1008"><u>PLAN VIEW OF OBJECT</u></p>	 <p data-bbox="638 955 934 1018"><u>PLAN VIEW OF OBJECT (WITH ANNOTATION)</u></p>	 <p data-bbox="1083 976 1409 1008"><u>SECTION VIEW OF OBJECT</u></p>	 <p data-bbox="1558 955 1884 1018"><u>SECTIONVIEW OF OBJECT (WITH ANNOTATION)</u></p>	 <p data-bbox="2211 976 2626 1008"><u>3D VIEW(FOR REFERENCE ONLY)</u></p>



TYP FLOOR LOADING KEY PLAN
1:300

LOADING KEY PLAN OF OBJECT

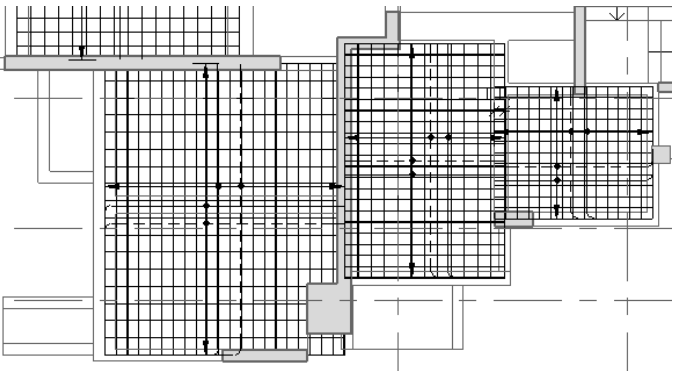


TYP FLOOR LOADING KEY PLAN
1:300

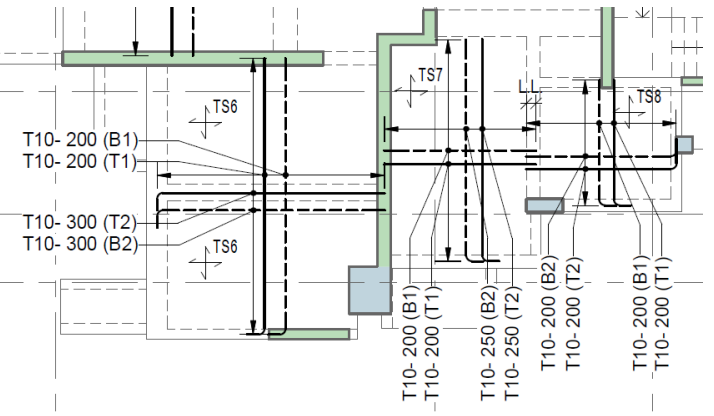
LOADING KEY PLAN

USAGE	LEGEND	LL. (kPa)	FIN. (kPa)	F.R.R. (MIN)
STAIRCASE		3.0	1.25	60/60/60
LOBBY		3.0	1.25	60/60/60
DOMESTIC		2.0	0.50	60/60/60
PLANT ROOM		7.5	1.25	60/60/60
FLAT ROOF		5.0	5.60	60/60/60

LOADING KEY PLAN WITH ANNOTATION

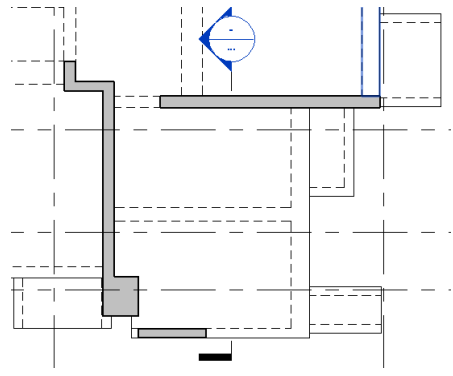


PLAN VIEW OF OBJECT WITH REBAR

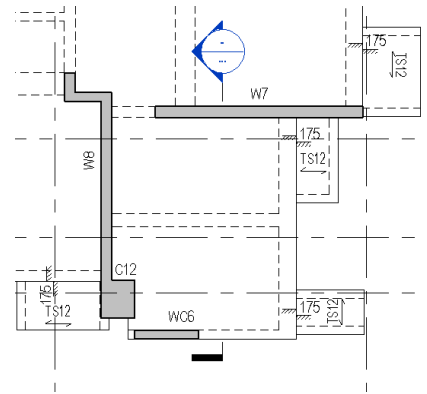


PLAN VIEW OF OBJECT WITH REBAR (WITH ANNOTATION)

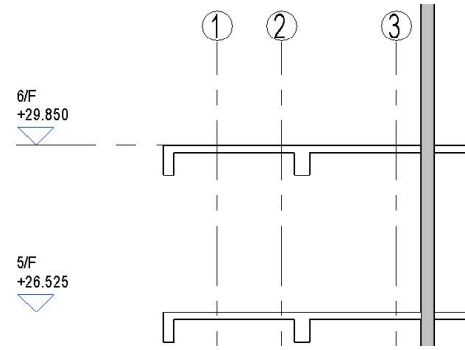
BIM OBJECT	STRUCTURAL WALL			
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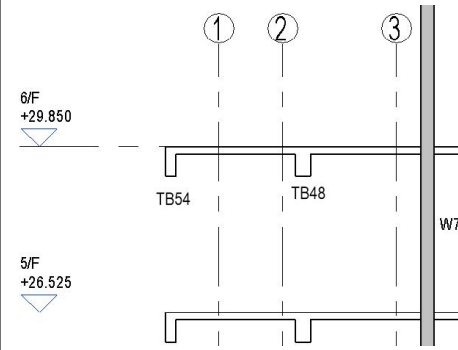
PLAN VIEW OF OBJECT



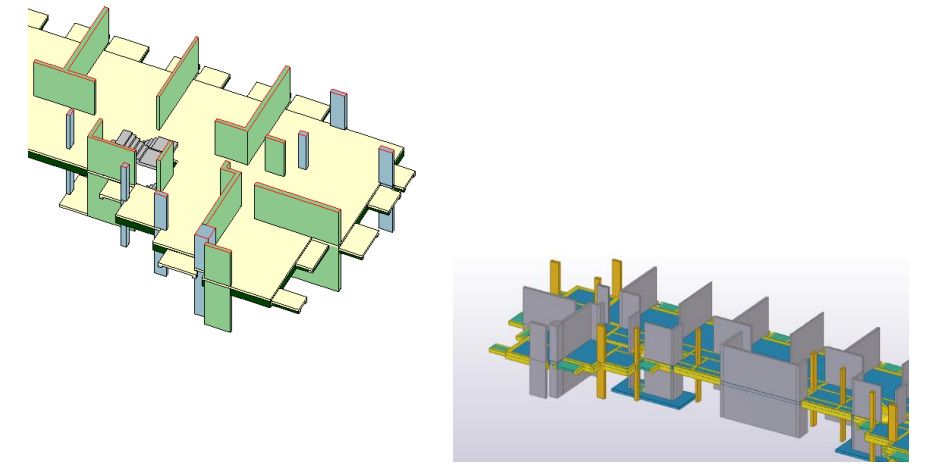
PLAN VIEW OF OBJECT
(WITH ANNOTATION)



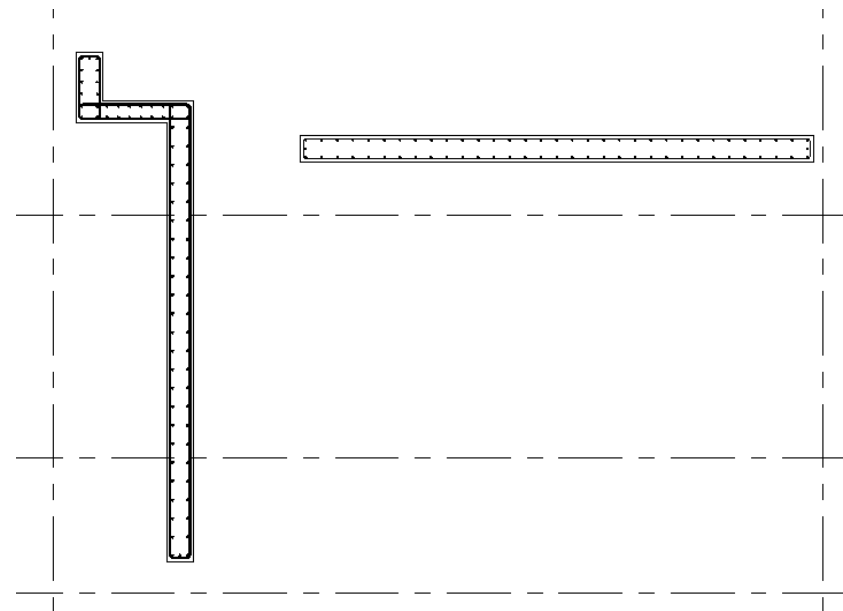
SECTION VIEW OF OBJECT



SECTIONVIEW OF OBJECT
(WITH ANNOTATION)

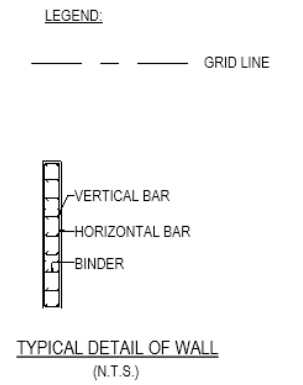
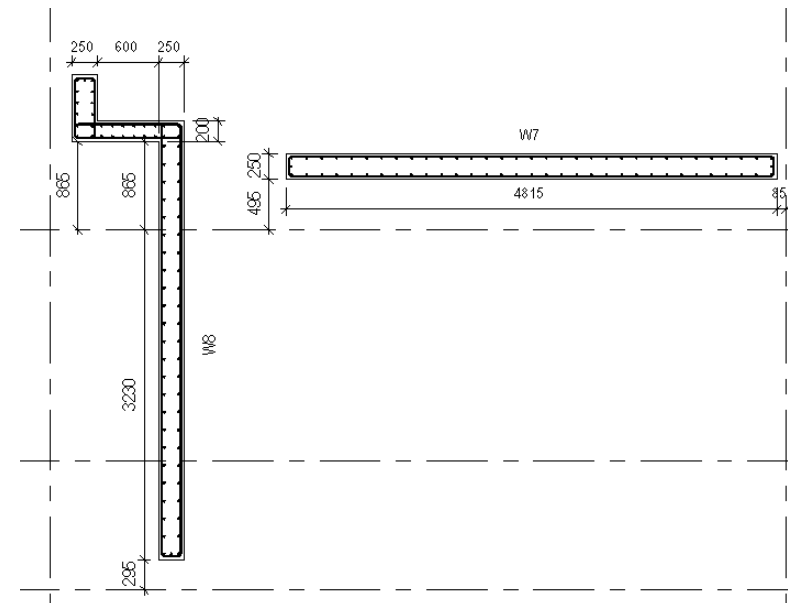


3D VIEW(FOR REFERENCE ONLY)



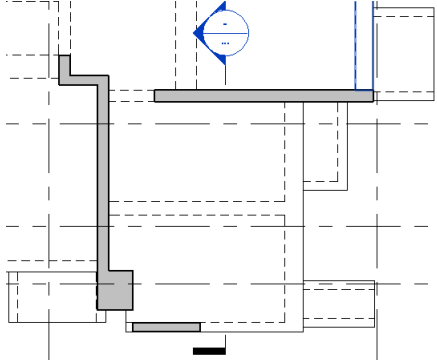
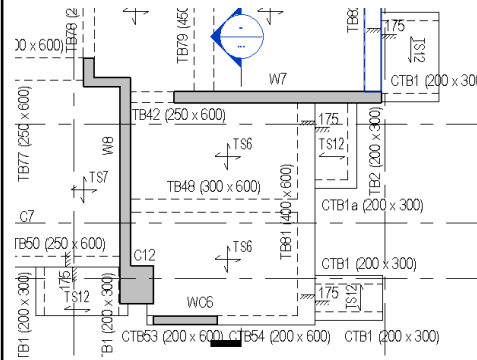
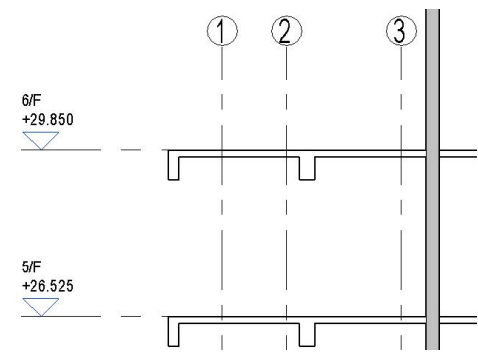
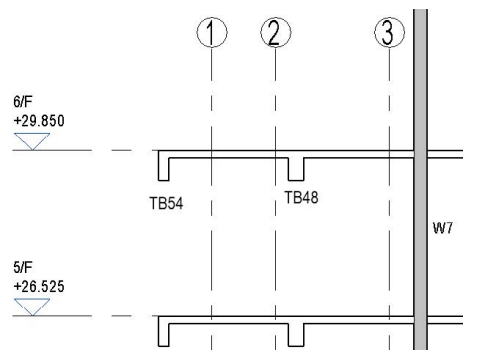
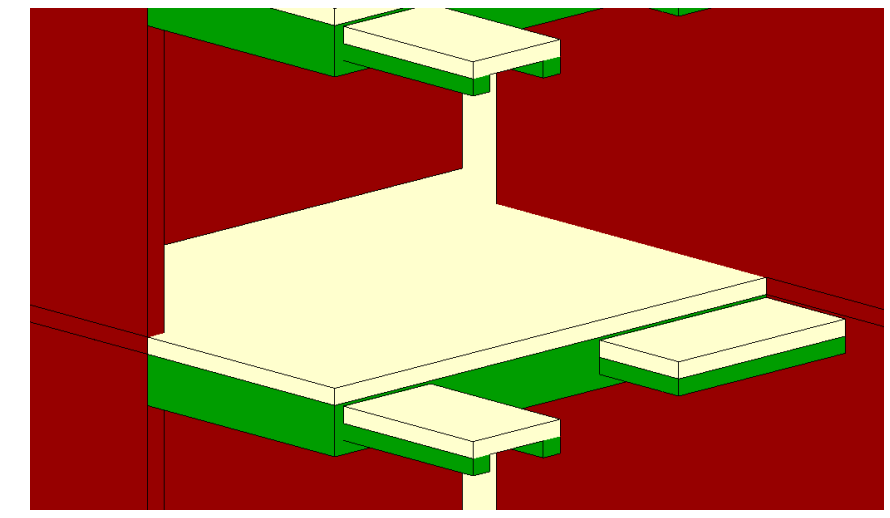
PLAN VIEW OF OBJECT WITH REBAR

■ Geometrical information ■ Non-geometrical information



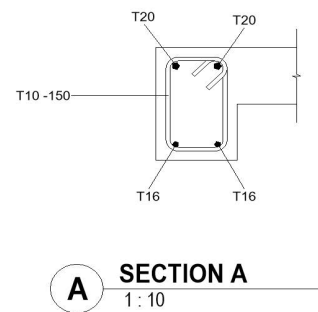
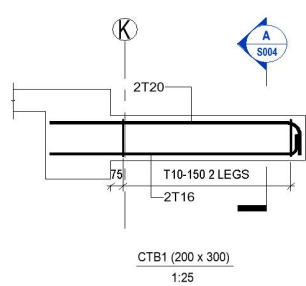
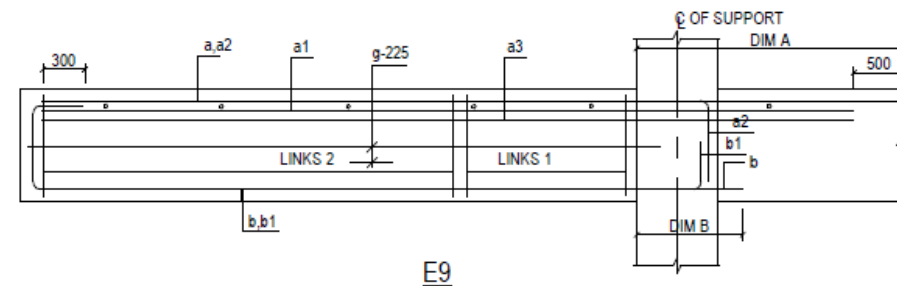
R.C. WALL SCHEDULE								
FLOOR	WALL MARK	CONCRETE GRADE	THICKNESS (mm)	VERTICAL BARS	HORIZONTAL BARS	BINDER		STEEL RATIO (%)
						HORIZONTAL	VERTICAL	
3/F	W7	C60	250	T25-150	T12-125	T12-200	150	1.3
3/F	W8	C60	250	T32-175	T12-125	T12-200	150	1.8

PLAN VIEW OF OBJECT WITH REBAR
(WITH ANNOTATION)

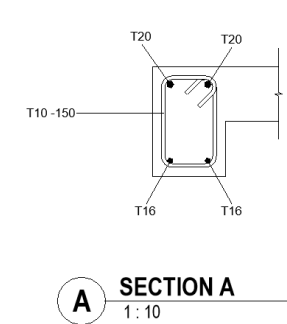
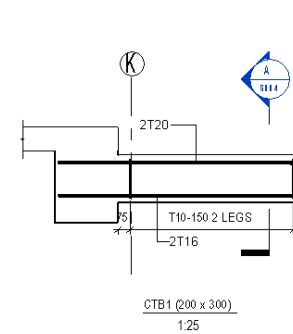
BIM OBJECT	BEAM			
 <p style="text-align: center;">PLAN VIEW OF OBJECT</p>	 <p style="text-align: center;">PLAN VIEW OF OBJECT WITH ANNOTATION</p>	 <p style="text-align: center;">SECTION VIEW OF OBJECT</p>	 <p style="text-align: center;">SECTIONVIEW OF OBJECT ANNOTATION</p>	 <p style="text-align: center;">3D VIEW(FOR REFERENCE ONLY)</p>

■ Geometrical information ■ Non-geometrical information

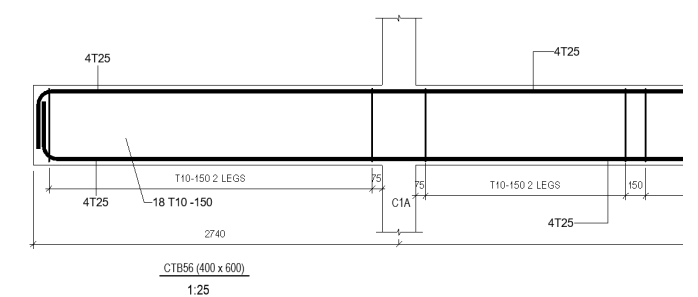
R.C. BEAM SCHEDULE																				
BEAM MARK	BEAM SIZE (BXD)	ELEV. REFER	REINFORCEMENT										REINFORCEMENT			DIMENSION				
			a	a1	a2	b	b1	c	d	e	f	g	LINKS 1	LINKS 2	LINKS 3	A	B	C	D	
TB1	200 x 300	E9	2T20	-	-	-	2T16	-	-	-	-	-	←	T10-150(2 LEGS)	→	→	2550	-	-	-
TB1a	200 x 300	E9	2T20	-	-	-	2T16	-	-	-	-	-	←	T10-150(2 LEGS)	→	→	2550	-	-	-

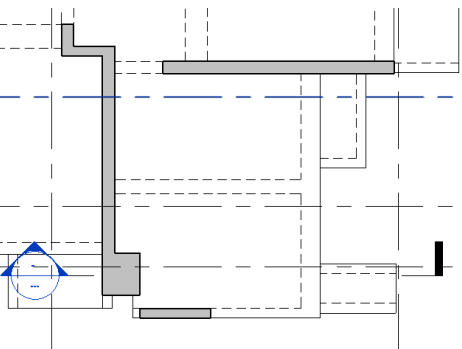
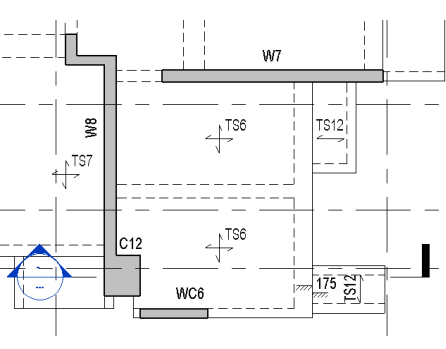
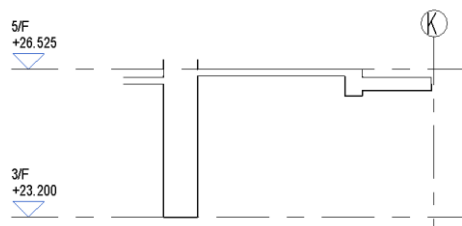
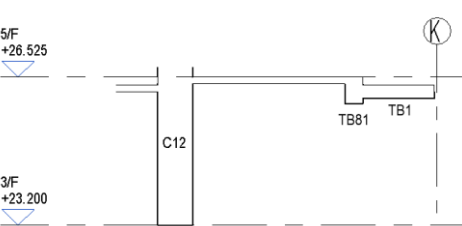
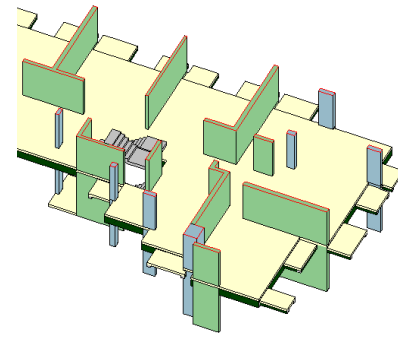
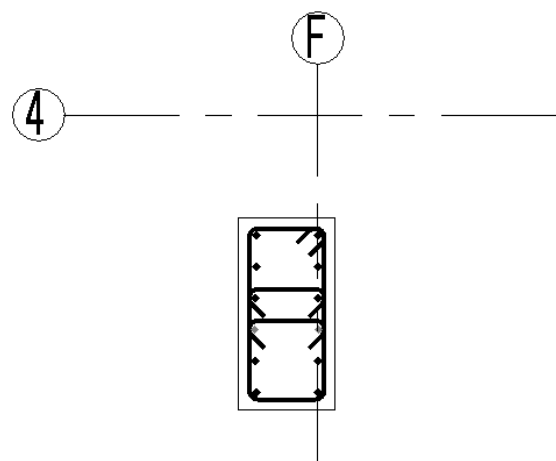
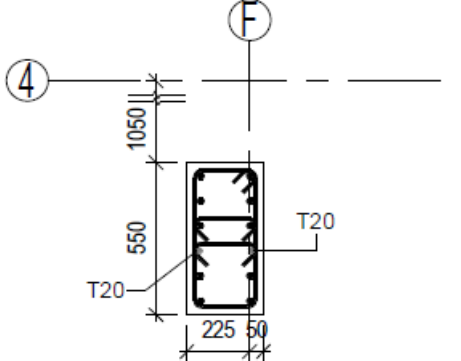
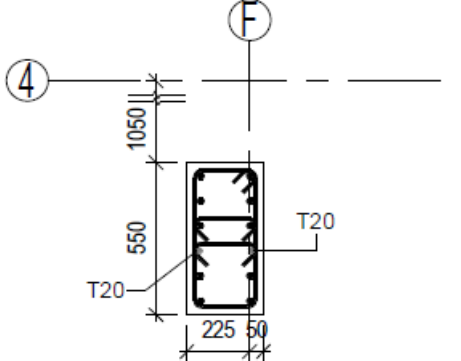
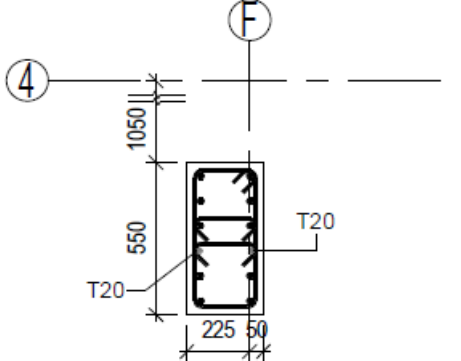


SECTION VIEW OF OBJECT WITH REBAR

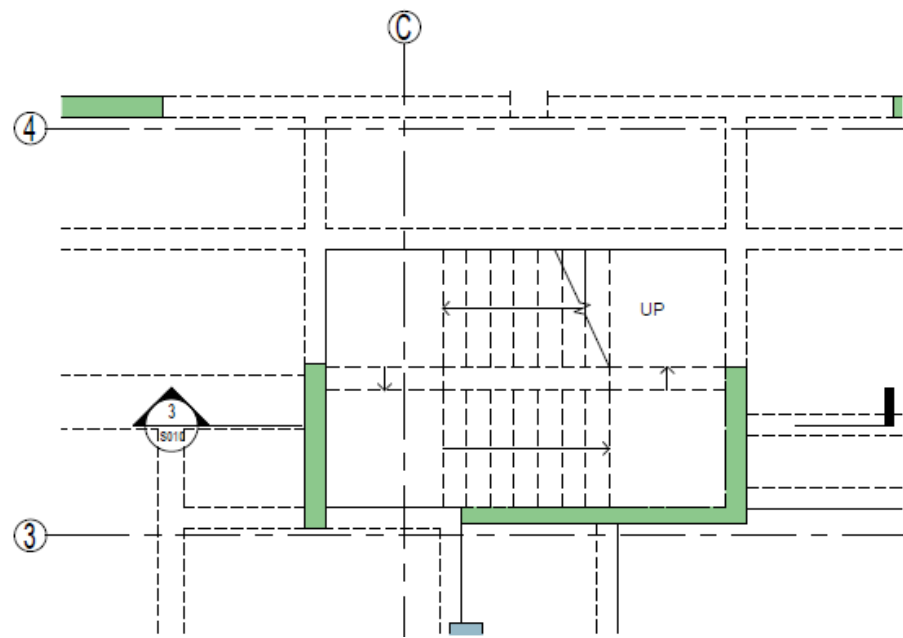


SECTION VIEW OF OBJECT WITH REBAR
(WITH ANNOTATION)

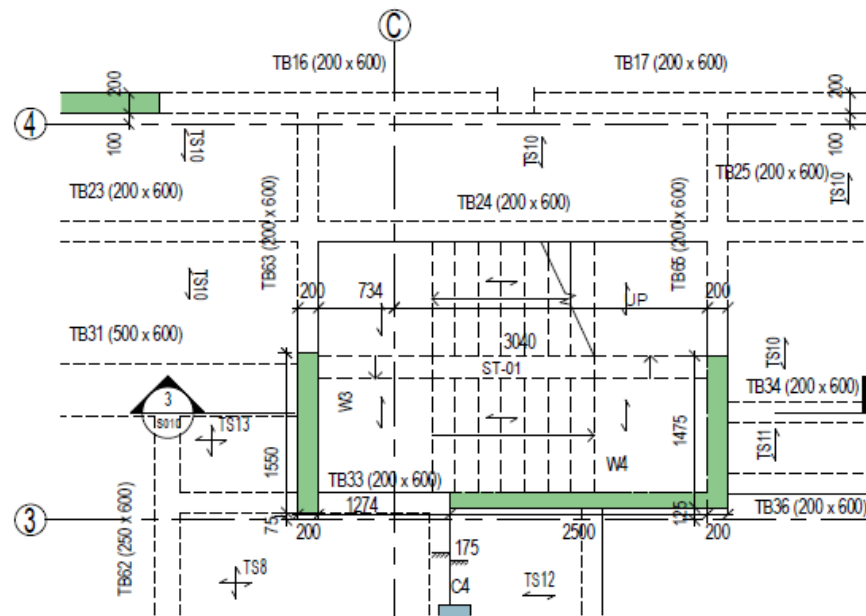


BIM OBJECT	STRUCTURAL COLUMN																			
 <p data-bbox="172 955 460 997"><u>PLAN VIEW OF OBJECT</u></p>	 <p data-bbox="638 934 934 1008"><u>PLAN VIEW OF OBJECT (WITH ANNOTATION)</u></p>	 <p data-bbox="1083 955 1409 997"><u>SECTION VIEW OF OBJECT</u></p>	 <p data-bbox="1558 934 1884 1008"><u>SECTIONVIEW OF OBJECT (WITH ANNOTATION)</u></p>	 <p data-bbox="2211 955 2611 997"><u>3D VIEW(FOR REFERENCE ONLY)</u></p>																
 <p data-bbox="326 1963 771 2005"><u>PLAN VIEW OF OBJECT WITH REBAR</u></p>	<table border="1" data-bbox="1038 1218 1914 1774"> <tr> <td data-bbox="1038 1218 1394 1606"> 29/F TO 5/F COLUMN MARK COLUMN SIZE VERT. BARS BINDERS IN TYPICAL REGION BINDERS IN CRITICAL REGION CRITICAL REGION H (mm) </td> <td data-bbox="1394 1218 1914 1774">  <p data-bbox="1617 1585 1676 1617">C10</p> </td> </tr> </table> <p data-bbox="1261 1942 1706 2016"><u>PLAN VIEW OF OBJECT WITH REBAR (WITH ANNOTATION)</u></p>	29/F TO 5/F COLUMN MARK COLUMN SIZE VERT. BARS BINDERS IN TYPICAL REGION BINDERS IN CRITICAL REGION CRITICAL REGION H (mm)	 <p data-bbox="1617 1585 1676 1617">C10</p>	<p data-bbox="2166 1060 2849 1092"> ■ Geometrical information ■ Non-geometrical information </p> <table border="1" data-bbox="2181 1281 2597 1690"> <thead> <tr> <th colspan="2" data-bbox="2181 1281 2597 1365">COLUMN SCHEDULE</th> </tr> <tr> <th data-bbox="2181 1365 2389 1407">COLUMN MARK</th> <th data-bbox="2389 1365 2597 1407">SIZE (mm)</th> </tr> </thead> <tbody> <tr> <td data-bbox="2181 1407 2389 1459">C1A</td> <td data-bbox="2389 1407 2597 1459">250 x 875</td> </tr> <tr> <td data-bbox="2181 1459 2389 1512">C1B</td> <td data-bbox="2389 1459 2597 1512">235 x 825</td> </tr> <tr> <td data-bbox="2181 1512 2389 1564">C1C</td> <td data-bbox="2389 1512 2597 1564">275 x 450</td> </tr> <tr> <td data-bbox="2181 1564 2389 1617">C2A</td> <td data-bbox="2389 1564 2597 1617">250 x 775</td> </tr> <tr> <td data-bbox="2181 1617 2389 1669">C2B</td> <td data-bbox="2389 1617 2597 1669">235 x 825</td> </tr> <tr> <td data-bbox="2181 1669 2389 1690">C2C</td> <td data-bbox="2389 1669 2597 1690">275 x 450</td> </tr> </tbody> </table> <p data-bbox="2344 1963 2493 2005"><u>SCHEDULE</u></p>	COLUMN SCHEDULE		COLUMN MARK	SIZE (mm)	C1A	250 x 875	C1B	235 x 825	C1C	275 x 450	C2A	250 x 775	C2B	235 x 825	C2C	275 x 450
29/F TO 5/F COLUMN MARK COLUMN SIZE VERT. BARS BINDERS IN TYPICAL REGION BINDERS IN CRITICAL REGION CRITICAL REGION H (mm)	 <p data-bbox="1617 1585 1676 1617">C10</p>																			
COLUMN SCHEDULE																				
COLUMN MARK	SIZE (mm)																			
C1A	250 x 875																			
C1B	235 x 825																			
C1C	275 x 450																			
C2A	250 x 775																			
C2B	235 x 825																			
C2C	275 x 450																			

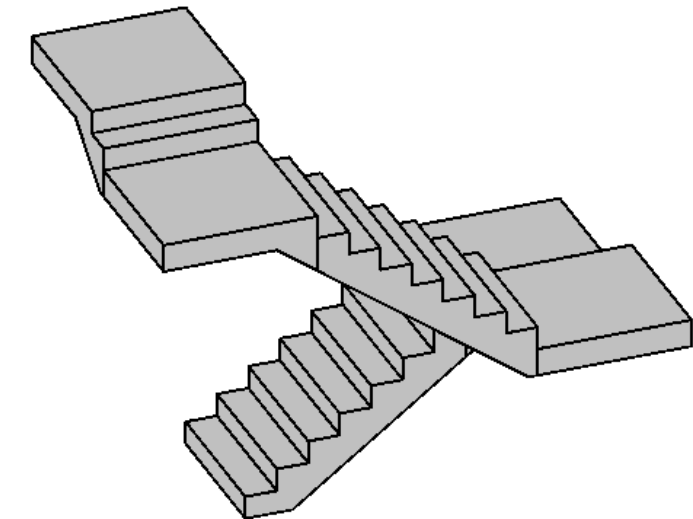
BIM OBJECT	STAIRCASE
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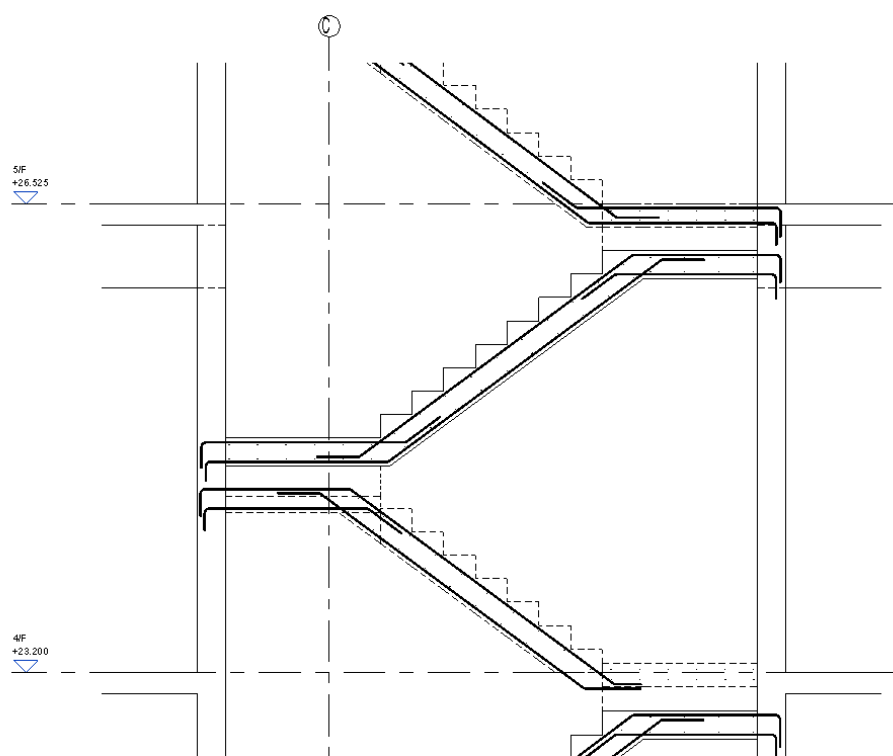
PLAN VIEW OF OBJECT



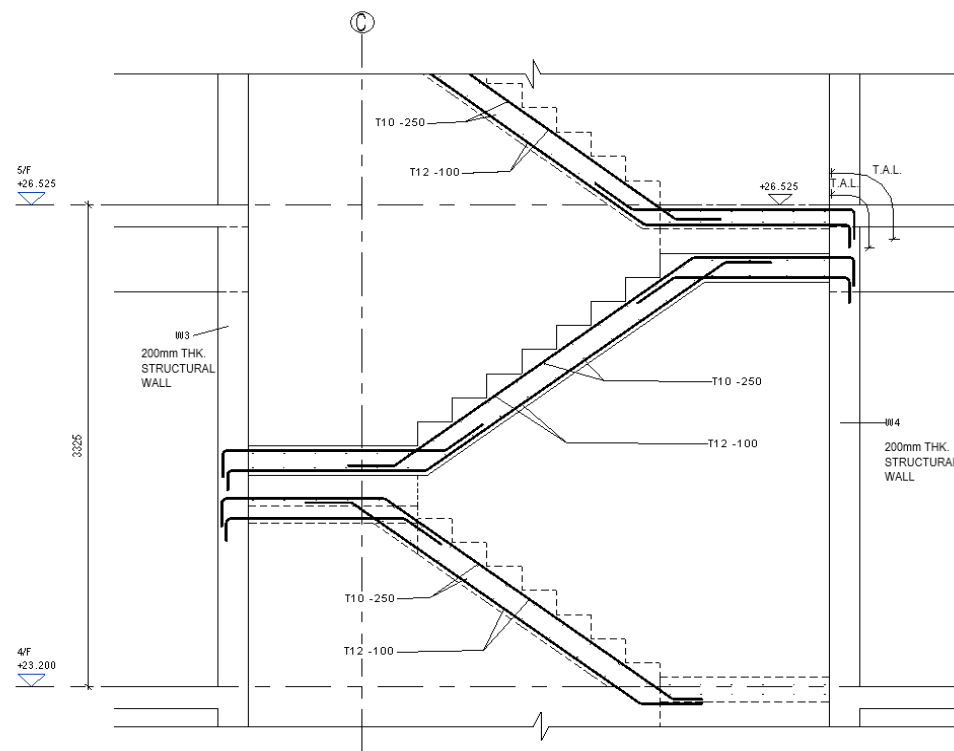
PLAN VIEW OF OBJECT WITH ANNOTATION



3D VIEW(FOR REFERENCE ONLY)

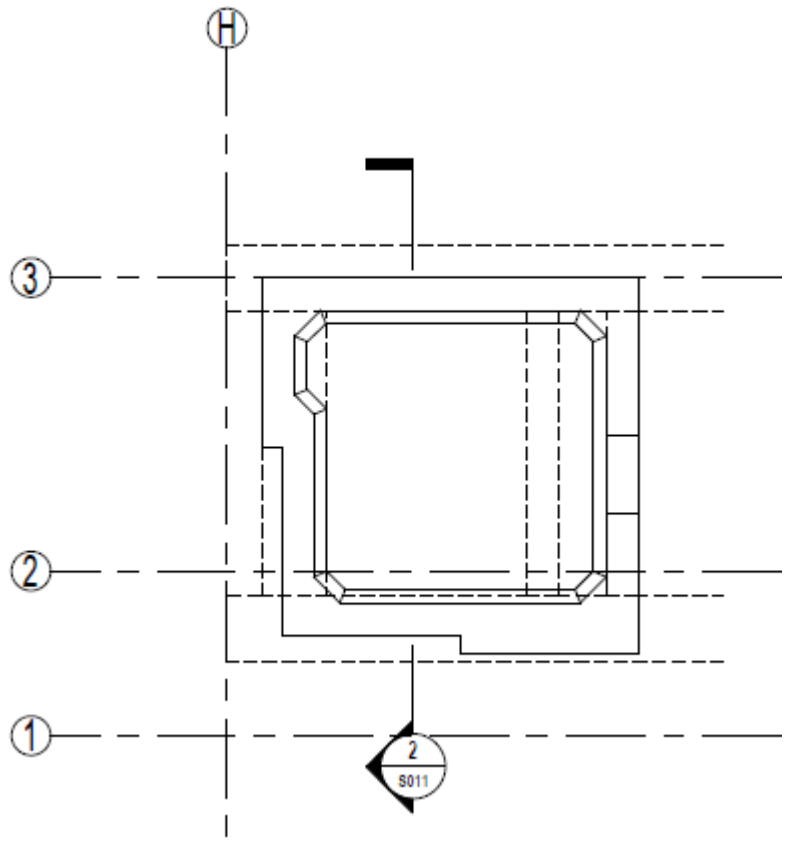


SECTION VIEW OF OBJECT WITH REBAR

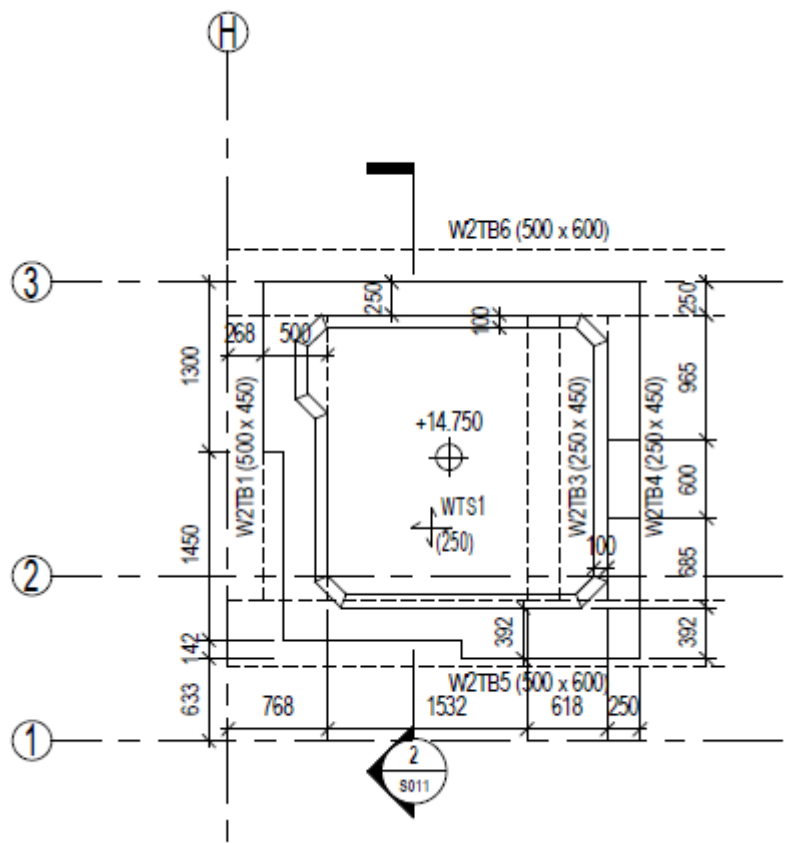


SECTION VIEW OF OBJECT WITH REBAR
(WITH ANNOTATION)

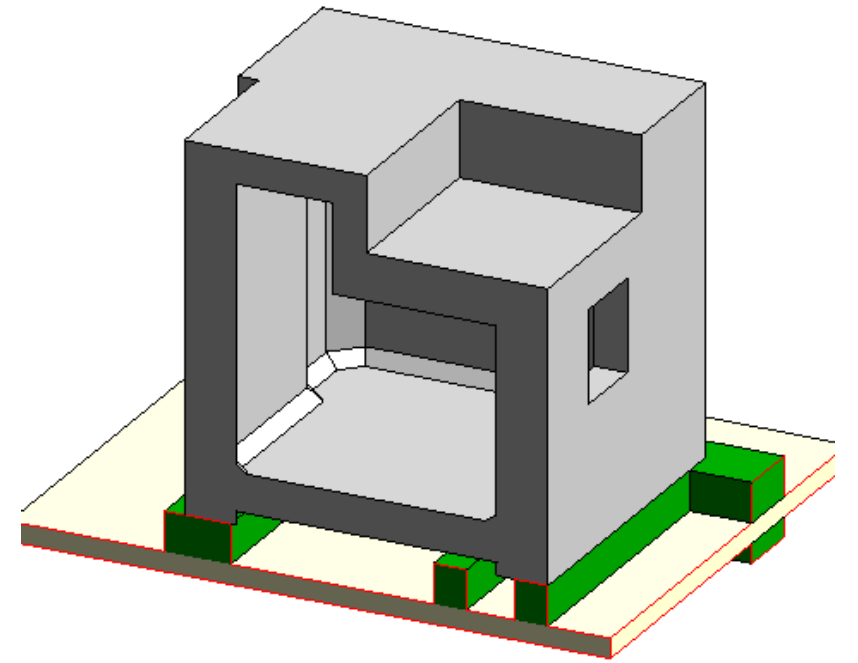
BIM OBJECT	WATER TANK
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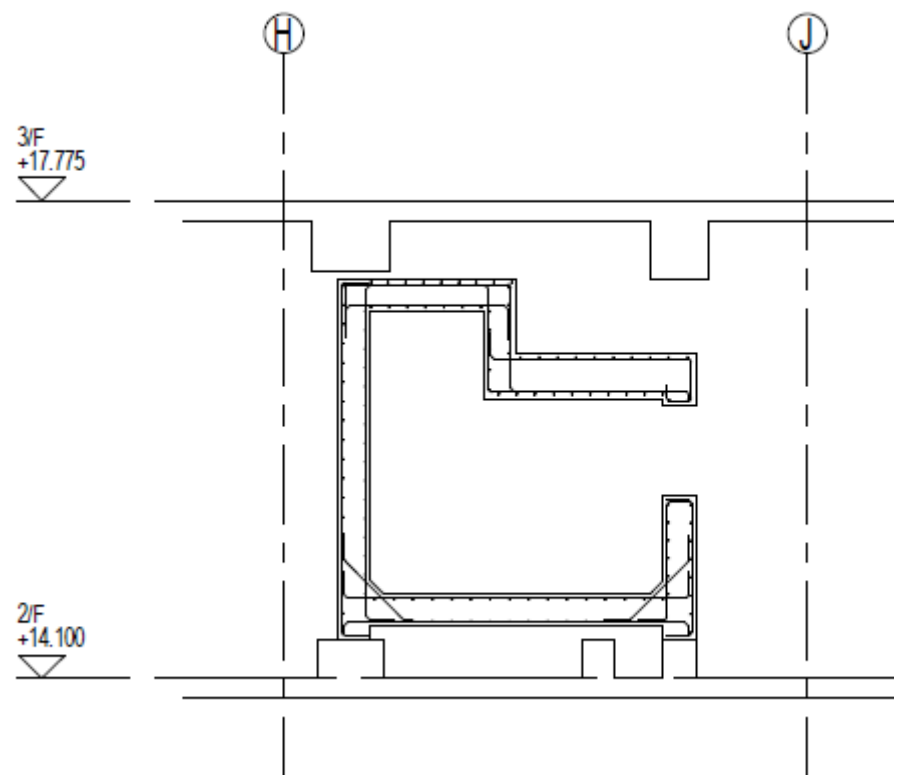
PLAN VIEW OF OBJECT



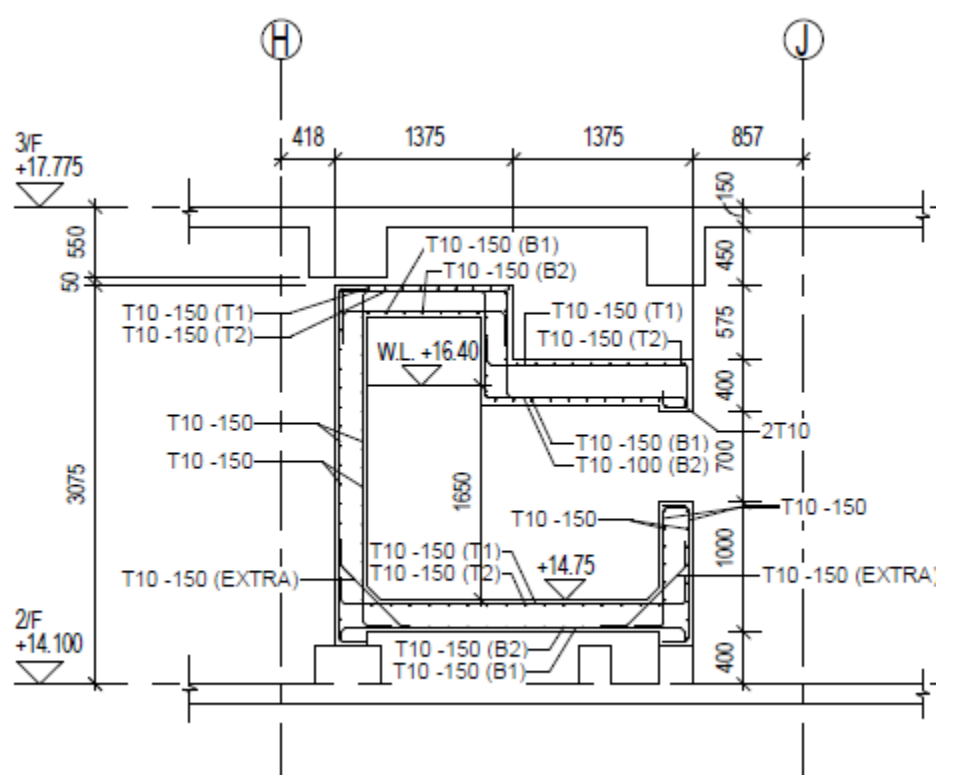
PLAN VIEW OF OBJECT WITH ANNOTATION



3D VIEW(FOR REFERENCE ONLY)

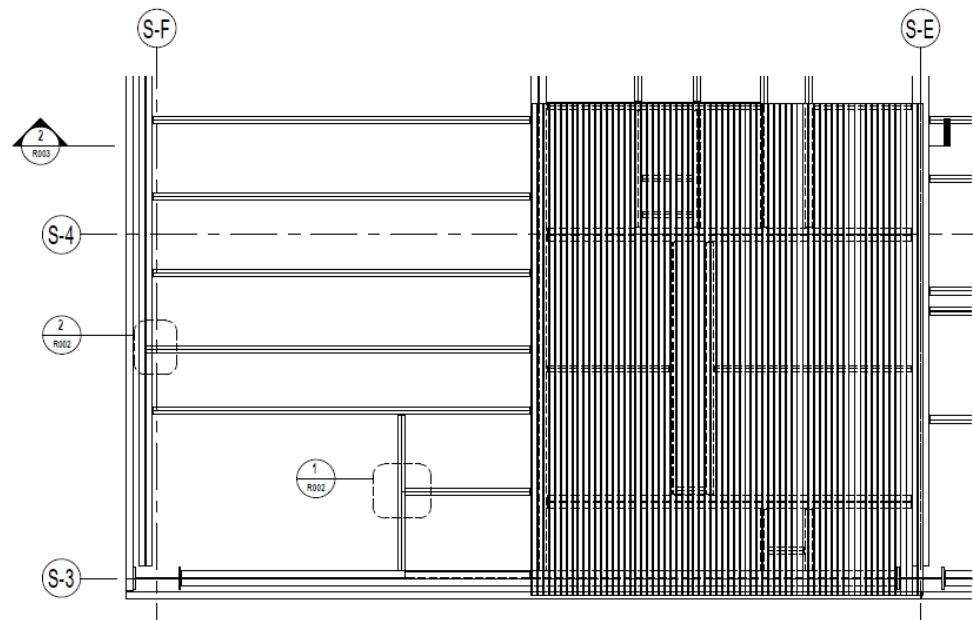


PLAN VIEW OF OBJECT WITH REBAR

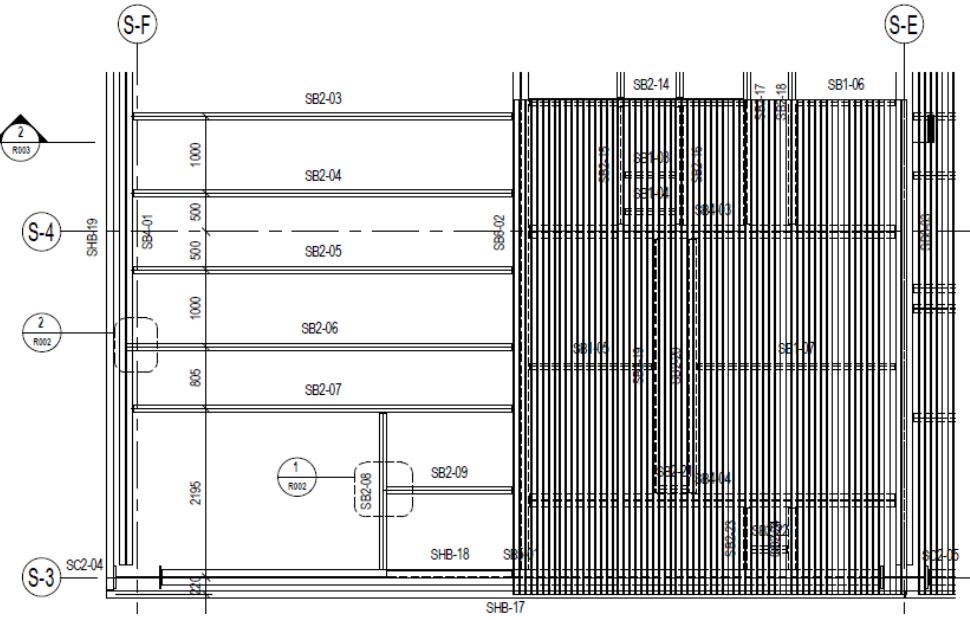


SECTION VIEW OF OBJECT WITH REBAR (WITH ANNOTATION)

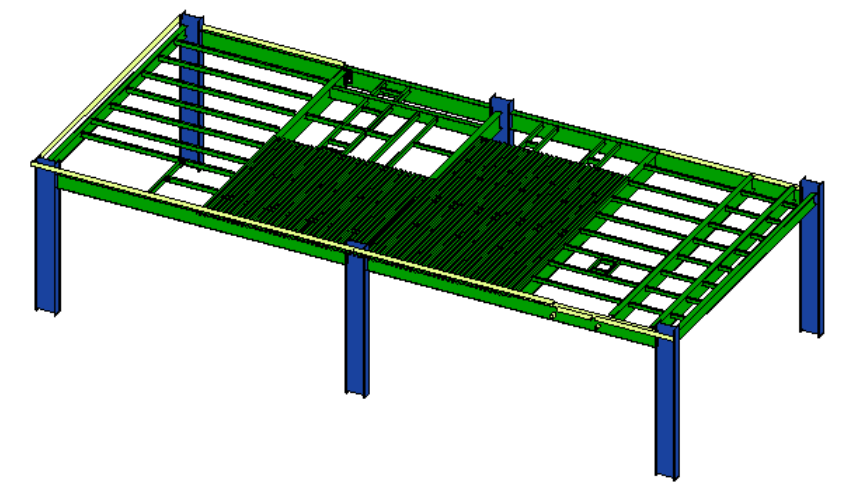
BIM OBJECT STEEL STRUCTURE



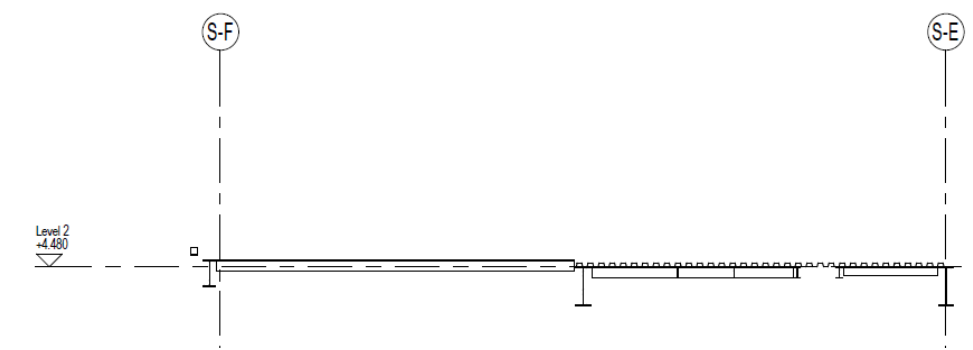
PLAN VIEW OF OBJECT



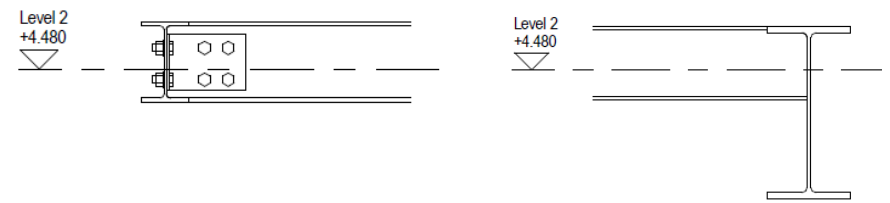
PLAN VIEW OF OBJECT WITH ANNOTATION



3D VIEW(FOR REFERENCE ONLY)



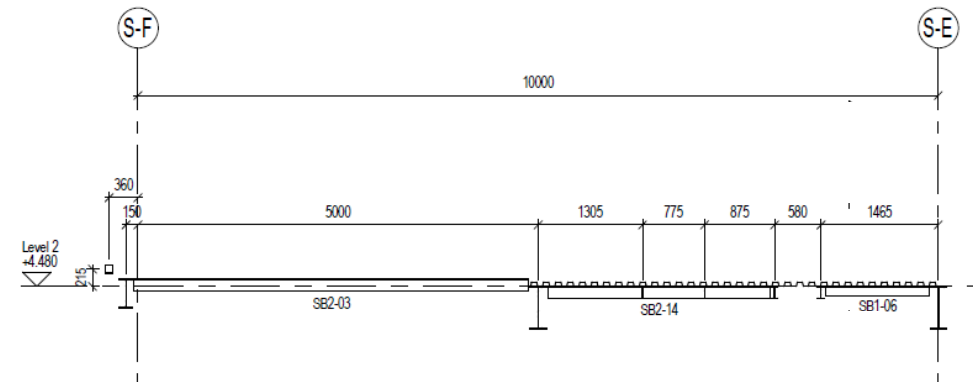
SECTION VIEW OF OBJECT



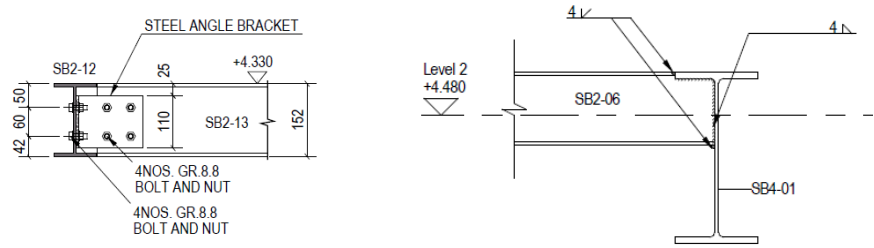
DETAIL 1

DETAIL 2

CONNECTION DETAIL OF OBJECT



SECTION VIEW OF OBJECT (WITH ANNOTAION)



DETAIL 1

DETAIL 2

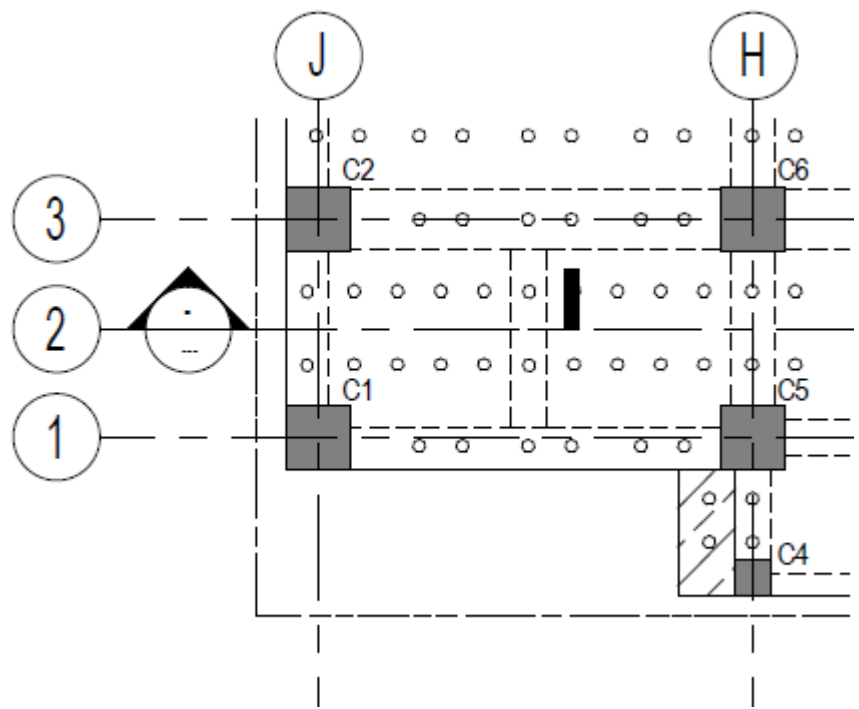
CONNECTION DETAIL OF OBJECT (WITH ANNOTATION)

■ Geometrical information ■ Non-geometrical information

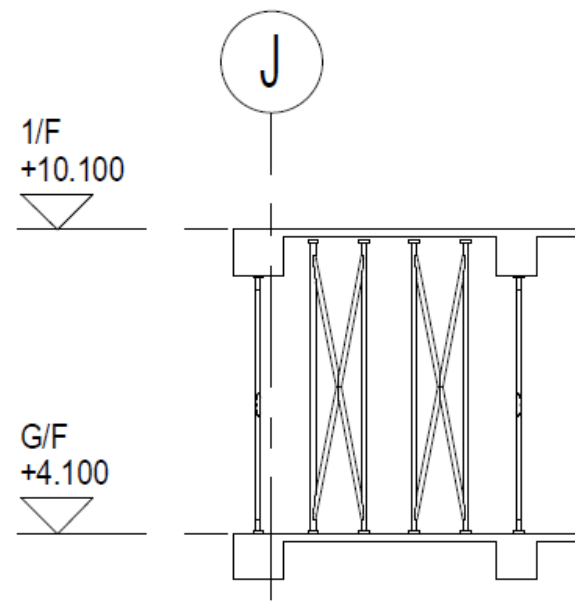
STEEL BEAM SCHEDULE		
TYPE MARK	SIZE	STEEL GRADE
SB6	UB533x210x101	S355
SB5	UB457x191x74	S355
SB4	UB356x171x57	S355
SB3	UB203x102x23	S355
SB2	UB152x89x16	S355
SB1	UB127x76x13	S355
SHB	SHS100x100x4	S355
SCH1	CH305x89x42	S355
SCH2	CH203x76x24	S355

STEEL COLUMN SCHEDULE		
TYPE MARK	SIZE	STEEL GRADE
SC1	UC152x152x30	S355
SC2	UB610x305x179	S355
SHC1	SHS100x100x4	S355

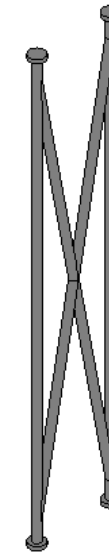
BIM OBJECT	PROPPING		
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PLAN VIEW OF OBJECT

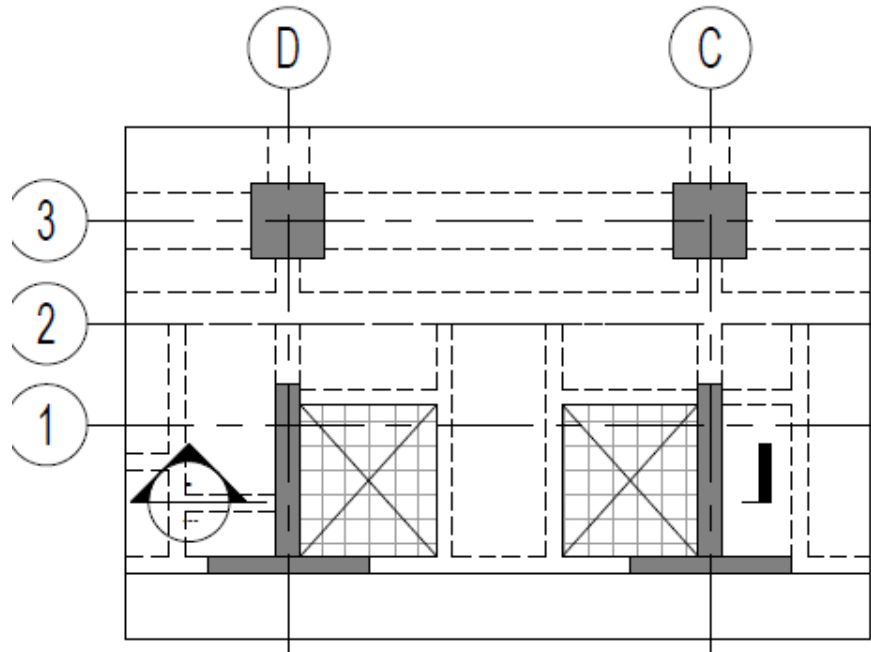


SECTION VIEW OF OBJECT

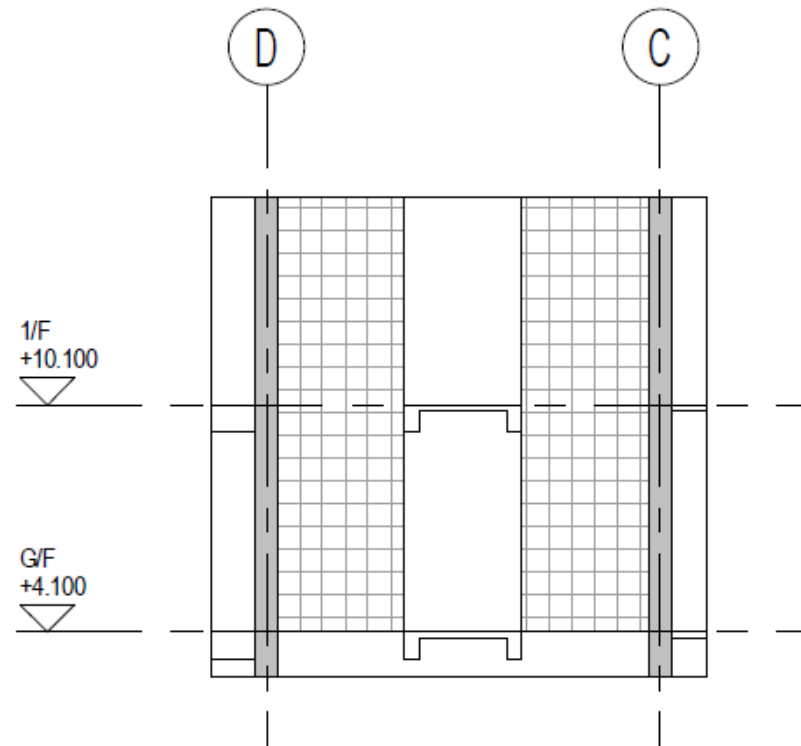


3D VIEW(FOR REFERENCE ONLY)

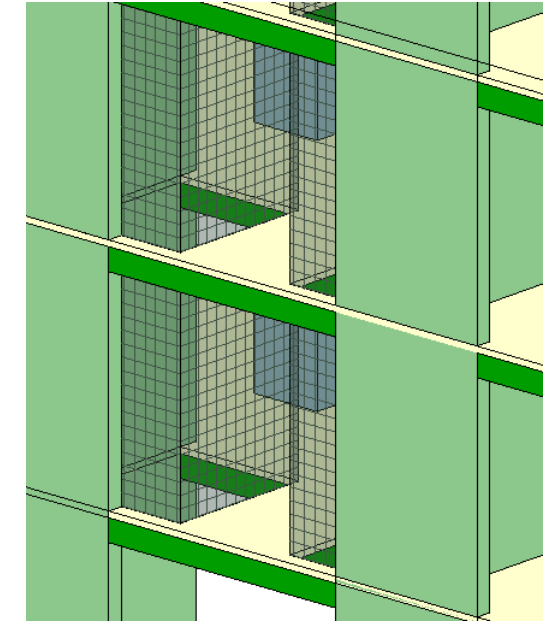
BIM OBJECT	DEBRIS CHUTE		
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PLAN VIEW OF OBJECT

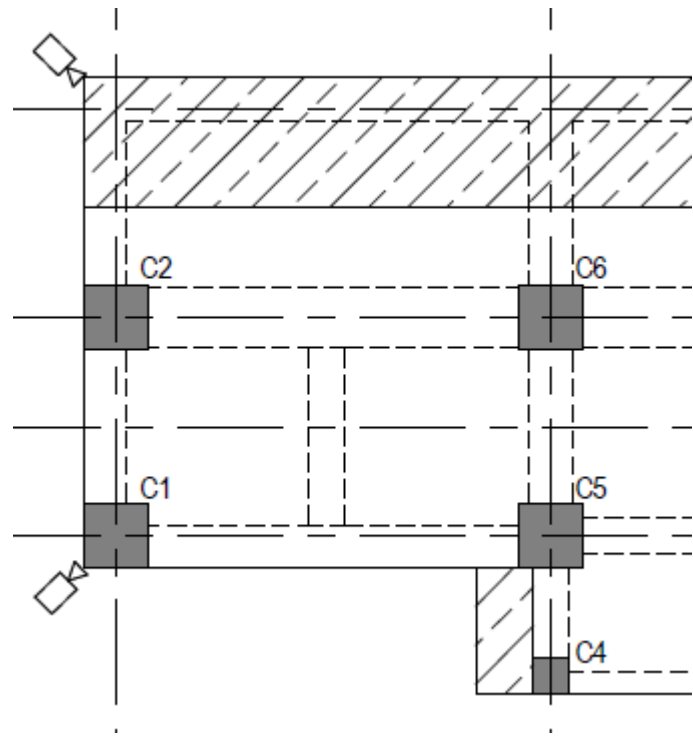


SECTION VIEW OF OBJECT

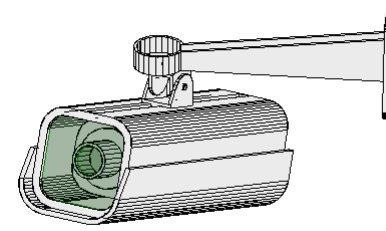


3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT	VIDEO CAMERA	
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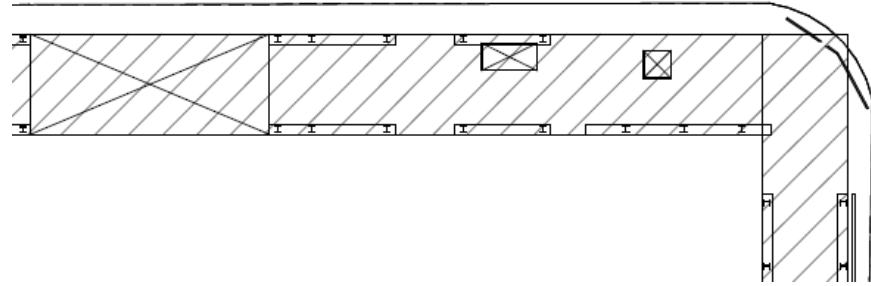
PLAN VIEW OF OBJECT



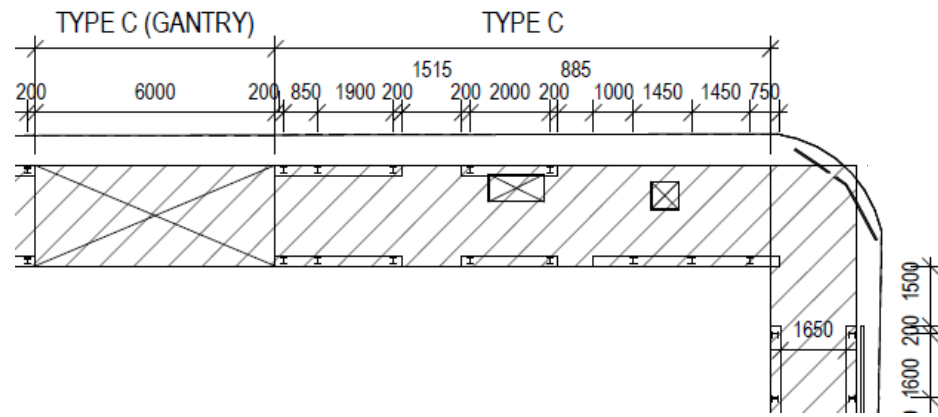
3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT

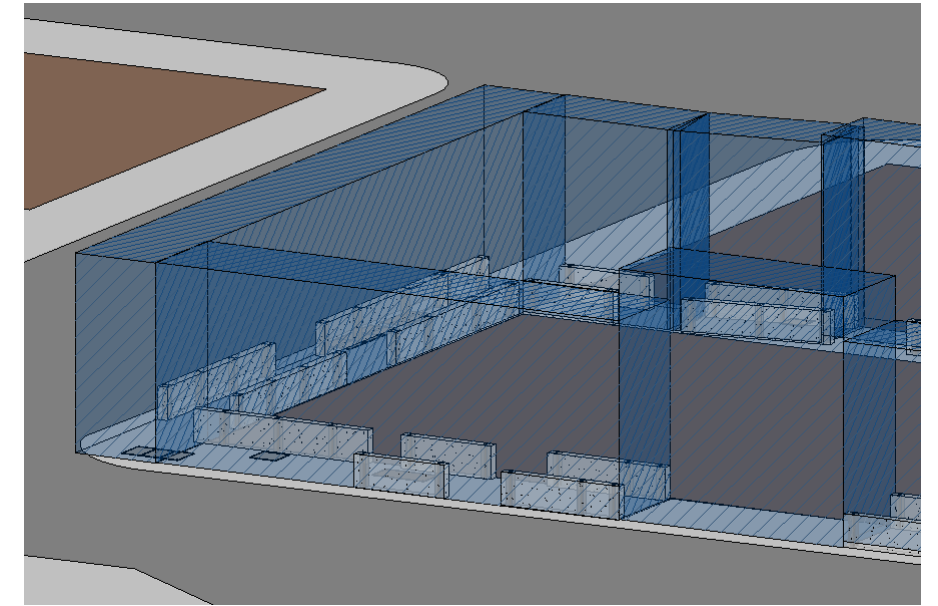
HOARDING, GANTRY AND CONCRETE FOOTING



PLAN VIEW OF OBJECT



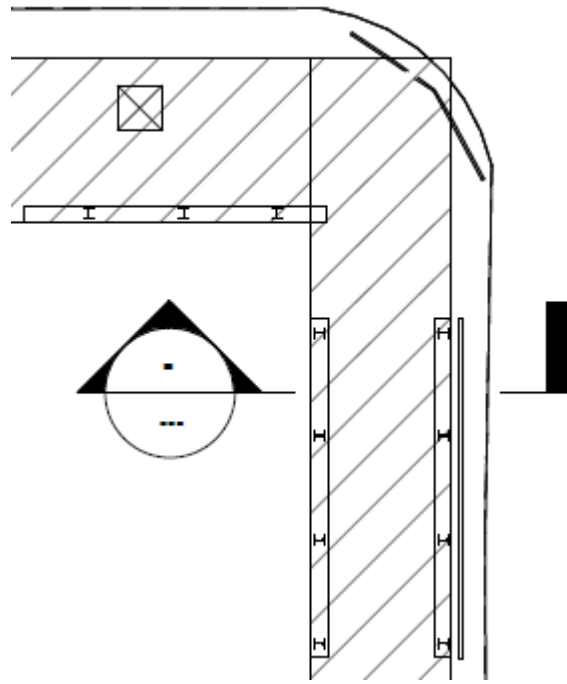
PLAN VIEW OF OBJECT (WITH ANNOTATION)



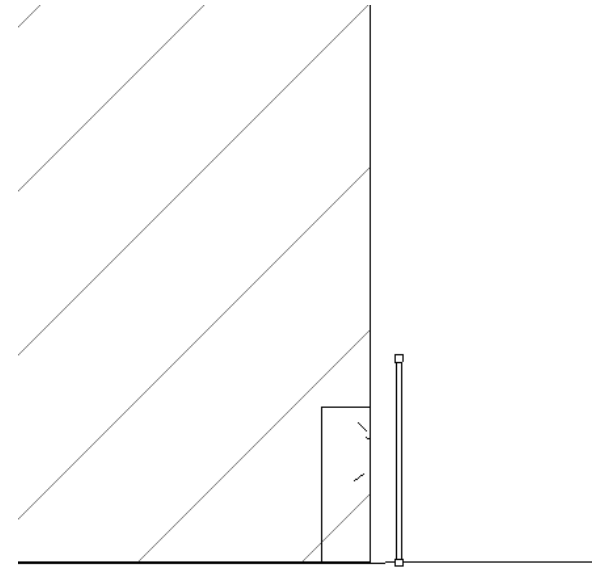
3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT

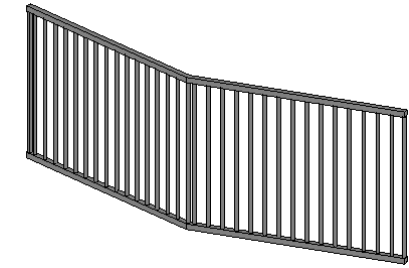
RAILING



PEDESTRIAN RAILING
PLAN VIEW OF OBJECT



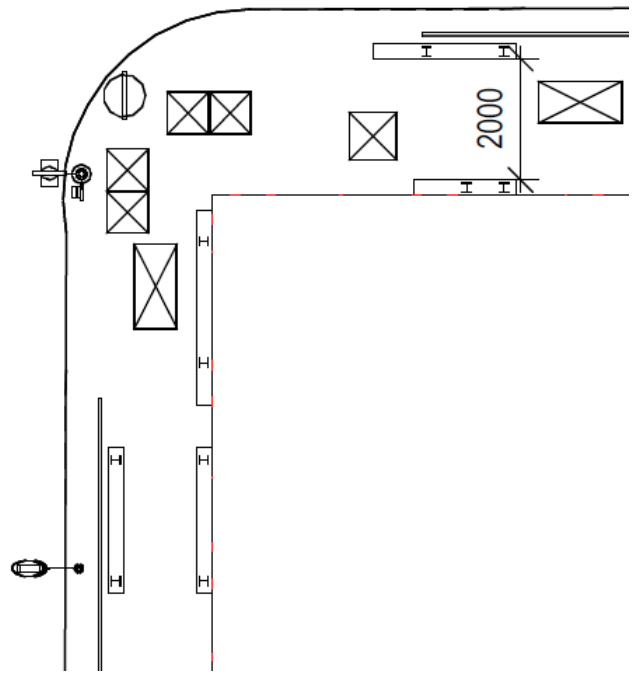
SECTION VIEW OF OBJECT



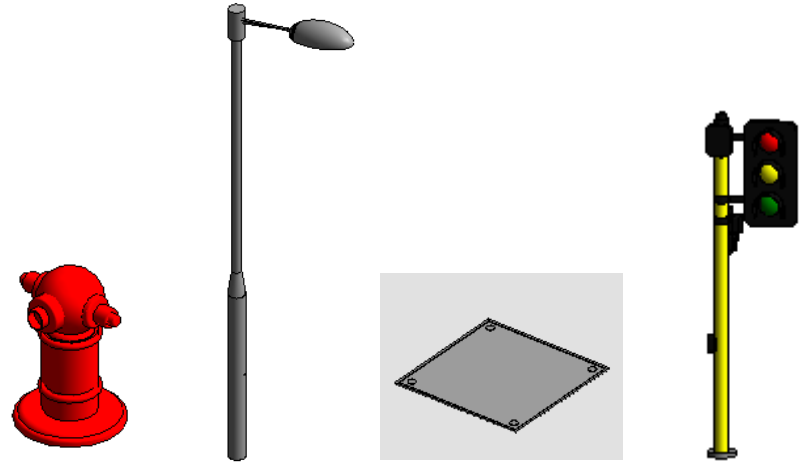
3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT

STREET FURNITURES

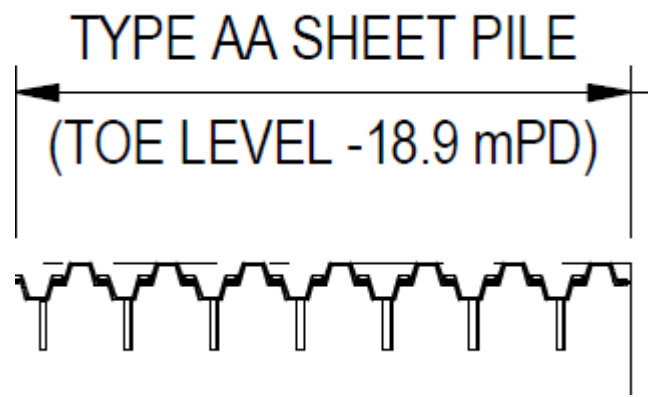


PLAN VIEW OF OBJECT

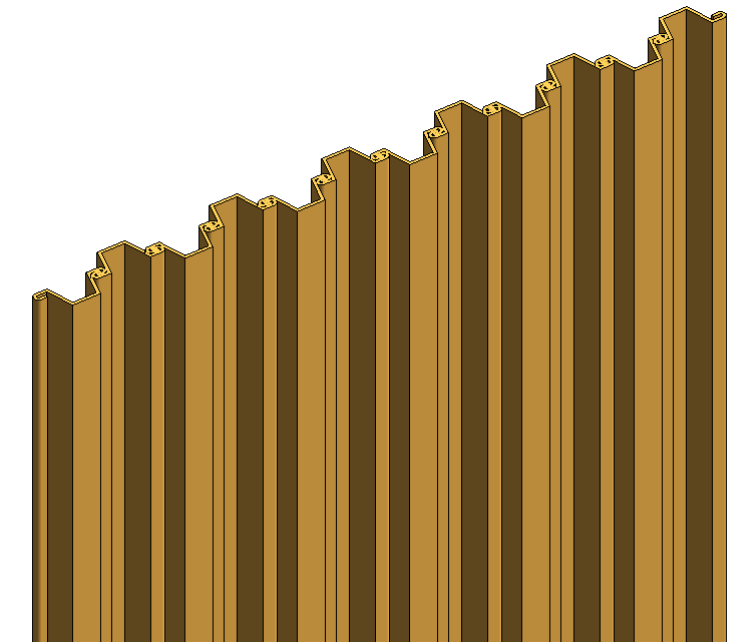
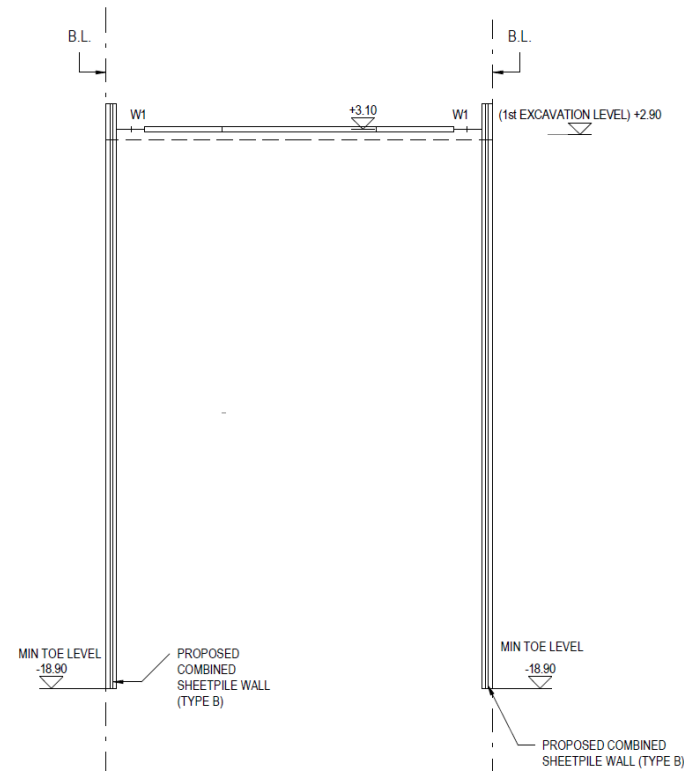


3D VIEW(FOR REFERENCE ONLY)

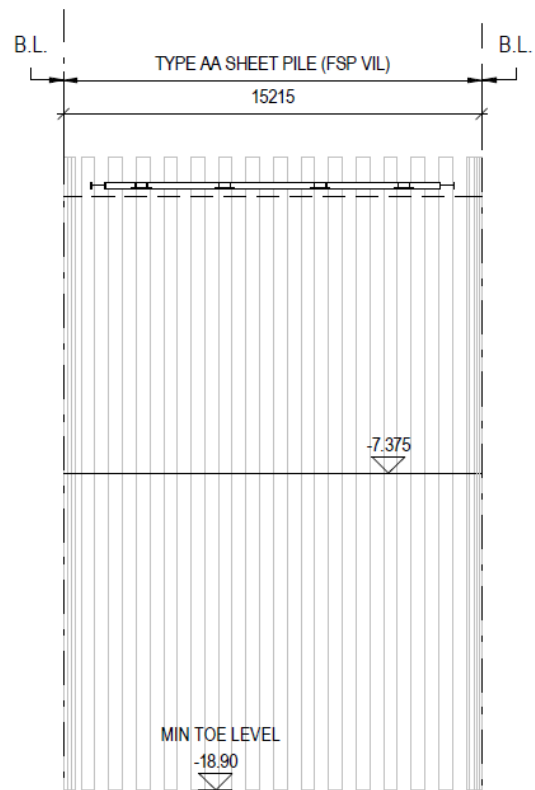
BIM OBJECT SHEET PILE



PLAN VIEW OF OBJECT (WITH ANNOTATION)



3D VIEW(FOR REFERENCE ONLY)



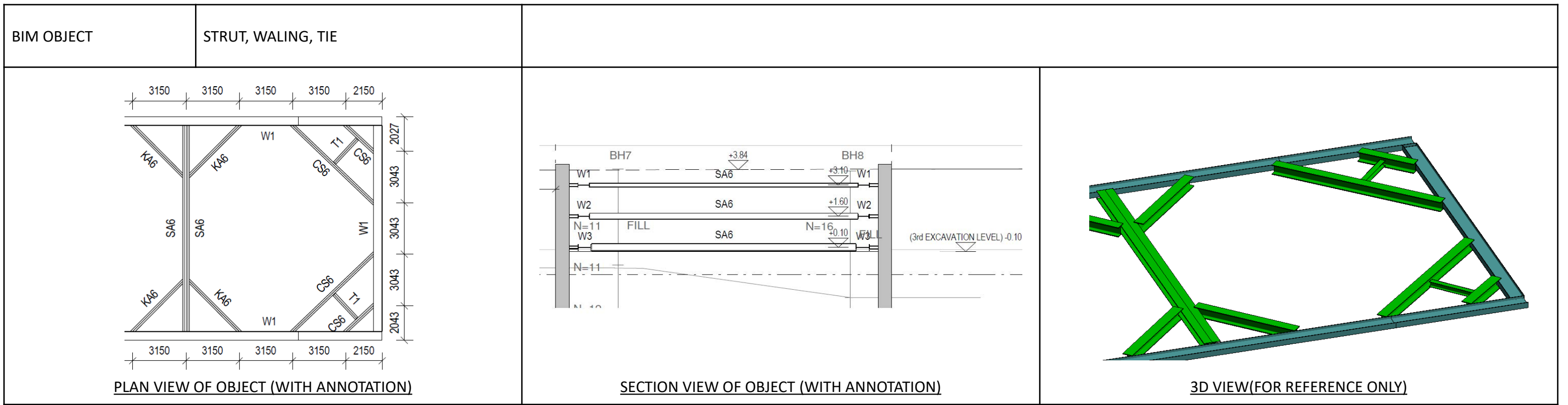
ELEVATION VIEW OF OBJECT (WITH ANNOTATION)

■ Geometrical information ■ Non-geometrical information ■ Schedule formula

SHEET PILE SCHEDULE						
SHEET PILE TYPE	MEMBER SIZE	TOE LEVEL (mPD)	MAX RETAINING HEIGHT (m)	FINAL EXCAVATION LEVEL (mPD)	MIN EMBEDMENT LENGTH (m)	GRADE
A	FSP-VIL (BOX TYPE)	-23.0	12.675	-10.325	14.225	S275
B	FSP-VIL	-18.9	12.175	-8.075	10.825	S275

SHEET PILE SECTION PROPERTIES											
MEMBER SIZE	DIMENSIONS (mm)			SECTION AREA (PER PILE) (cm ²)	MOMENT OF INERTIA (PER PILE) (cm ⁴)	WEIGHT (PER PILE) (kg/m)	SECTION MODULUS (PER PILE) (cm ³)	SECTION AREA (PER 1m PILE) (cm ²)	MOMENT OF INERTIA (PER 1m PILE) (cm ⁴)	WEIGHT (PER 1m PILE) (kg/m)	SECTION MODULUS (PER 1m PILE) (cm ³)
	w	h	t								
FSP IV	400	170	15.5	153	11400	120	680	306	86000	240	3820
FSP VIL	500	225	27.6	153	11400	120	680	306	86000	240	3820

SCHEDULE



■ Geometrical information ■ Non-geometrical information ■ Schedule formula

SCHEDULE OF VERTICAL TIE			
ITEM	MEMBER MARK	GRADE	MEMBER SIZE
VERTICAL TIE	D4	S355	UBP356x368x174

SCHEDULE OF HORIZONTAL TIE			
ITEM	MEMBER MARK	GRADE	MEMBER SIZE
TIE	T1	S355	UC203x203x46

SCHEDULE OF MAIN STRUT						
PILE TYPE	LAYER	WALING MEMBER SIZE	PRELOAD (kN/m)	PRELOAD PER STRUT (kN)	HORIZONTAL LOAD (kNm)	DESIGN LOAD FOR STRUT (kN)
A	1	305x305x97 kg/m UC	20	95	86	569
A	2	305x305x97 kg/m UC	50	237	130	860

SECTION PROPERTIES OF WALING									
ITEM	GRADE	SECTION AREA (cm ²)	MOMENT OF INERTIA (cm ⁴)	WEIGHT (kg/m)	SECTION MODULUS (cm ³)	DEPTH D (mm)	WIDTH B (mm)	WEB THICKNESS t (mm)	FLANGE THICKNESS T (mm)
533X210X92 kg/m UB	S355	117	55200	92	2070	533.1	209.3	10.1	15.6
610X305X179 kg/m UB	S355	228	153000	179	4930	620.2	307.1	14.1	23.6

SECTION PROPERTIES OF STRUTS									
ITEM	GRADE	SECTION AREA (cm ²)	MOMENT OF INERTIA (cm ⁴)	WEIGHT (kg/m)	SECTION MODULUS (cm ³)	DEPTH D (mm)	WIDTH B (mm)	WEB THICKNESS t (mm)	FLANGE THICKNESS T (mm)
305X305X97 kg/m UC	S355	123	22200	97	1450	307.9	305.3	9.9	15.4
356X368X177 kg/m UC	S355	226	57100	177	3100	368.2	372.6	14.4	23.8

SCHEDULE OF WALING						
PILE TYPE	LAYER	WALING MEMBER SIZE	COMPRESSION (kN)	SHEAR (kN)	MOMENT (kNm)	
			=1.4*F _h * (1.414*3.15)	=1.4*F _h * (0.6*3.15)	=1.4*F _h * (3.15*2.9)	
A	1	533x210x92 kg/m UB	531	228	100	
A	2	533x210x92 kg/m UB	803	344	151	

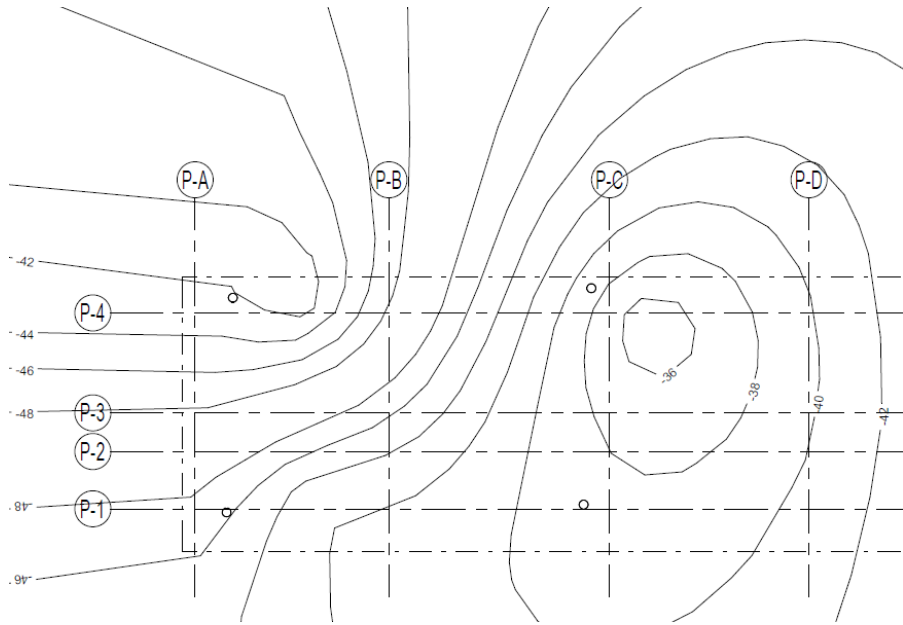
SCHEDULE OF SECONDARY STRUT AND CORNER STRUT			
PILE TYPE	LAYER	WALING MEMBER SIZE	STRUT LEVEL (mPD)
A	1	356x368x202 kg/m UC	+3.1
A	2	356x368x202 kg/m UC	+1.6

SECTION PROPERTIES OF SHORT STRUT / SPACER									
ITEM	GRADE	SECTION AREA (cm ²)	MOMENT OF INERTIA (cm ⁴)	WEIGHT (kg/m)	SECTION MODULUS (cm ³)	DEPTH D (mm)	WIDTH B (mm)	WEB THICKNESS t (mm)	FLANGE THICKNESS T (mm)
152x89x24 kg/m CH	S355	30.4	1168	23.87	153	152.4	88.9	7.1	11.6

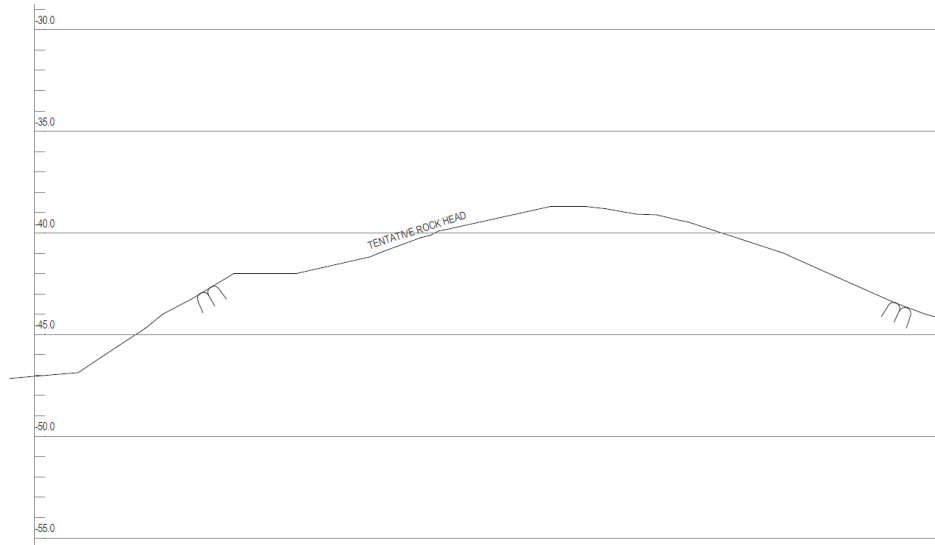
SECTION PROPERTIES OF HORIZONTAL TIE									
ITEM	GRADE	SECTION AREA (cm ²)	MOMENT OF INERTIA (cm ⁴)	WEIGHT (kg/m)	SECTION MODULUS (cm ³)	DEPTH D (mm)	WIDTH B (mm)	WEB THICKNESS t (mm)	FLANGE THICKNESS T (mm)
203X203X46 kg/m UC	S355	58.7	4570	46	450	203.2	203.6	7.2	11.0

SECTION PROPERTIES OF VERTICAL TIE									
ITEM	GRADE	SECTION AREA (cm ²)	MOMENT OF INERTIA (cm ⁴)	WEIGHT (kg/m)	SECTION MODULUS (cm ³)	DEPTH D (mm)	WIDTH B (mm)	WEB THICKNESS t (mm)	FLANGE THICKNESS T (mm)
356X368X174 kg/m UB	S355	221	51000	173.9	2820	361.4	378.5	20.3	20.4

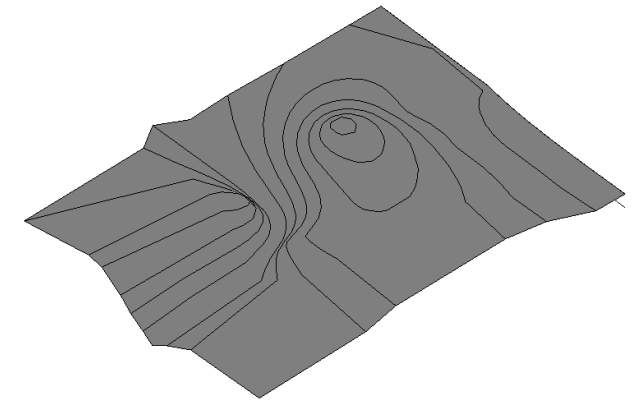
BIM OBJECT	ROCK PROFILE		
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PLAN VIEW OF OBJECT (WITH ANNOTATION)

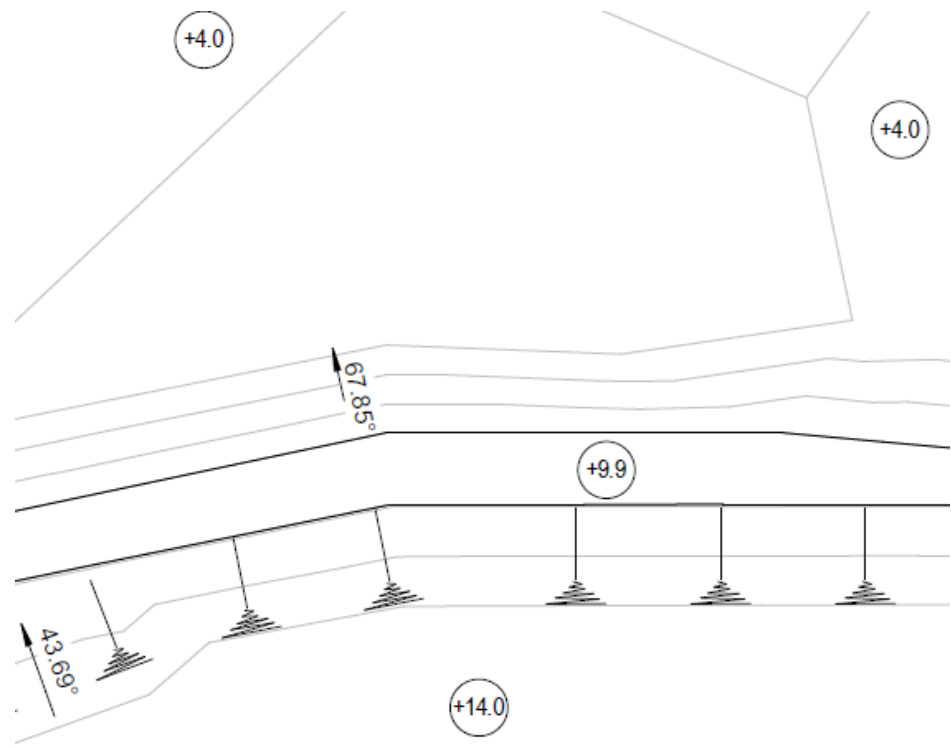


SECTION VIEW OF OBJECT (WITH ANNOTATION)



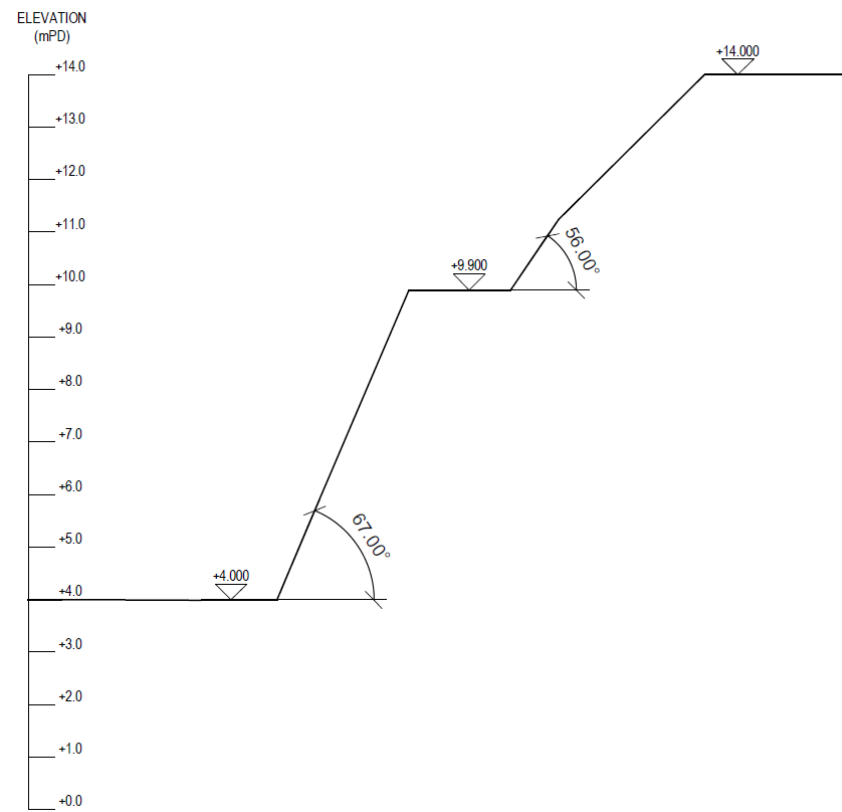
3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT	SOIL PROFILE		
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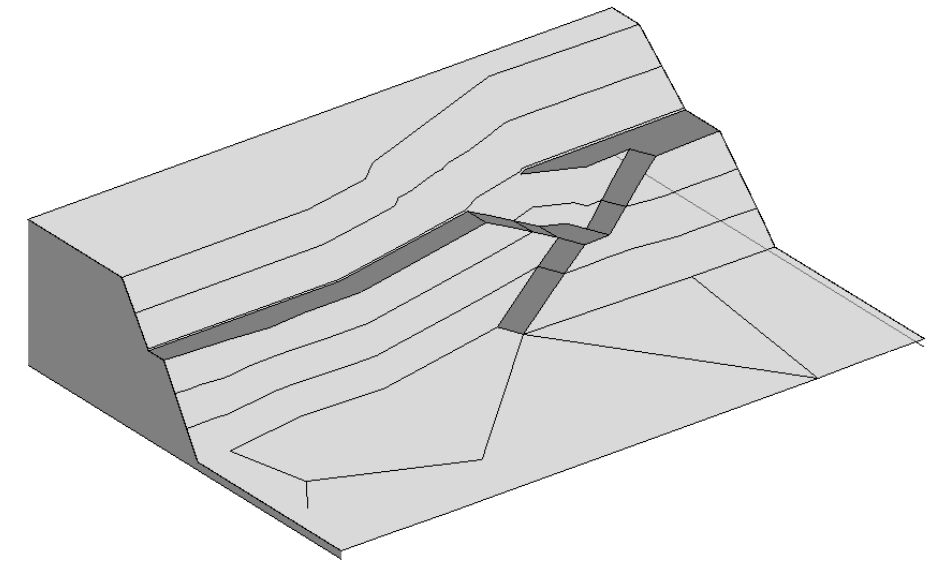


LEGEND: (4.0) SLOPE BERM / PLATFORM LEVEL

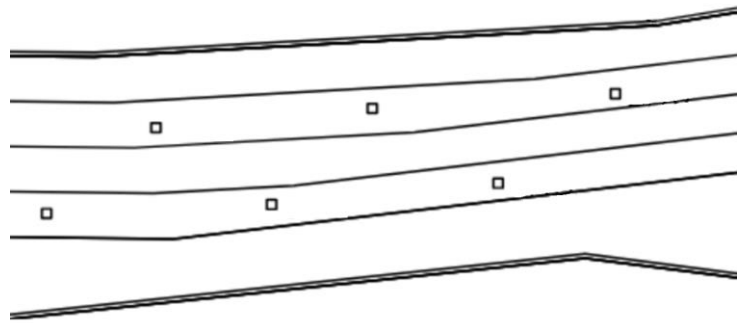
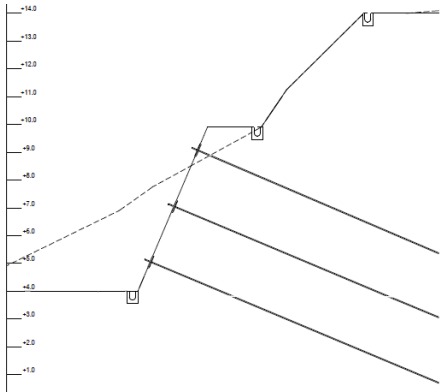
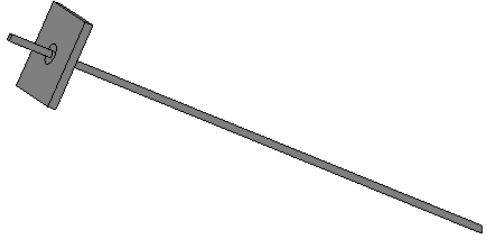
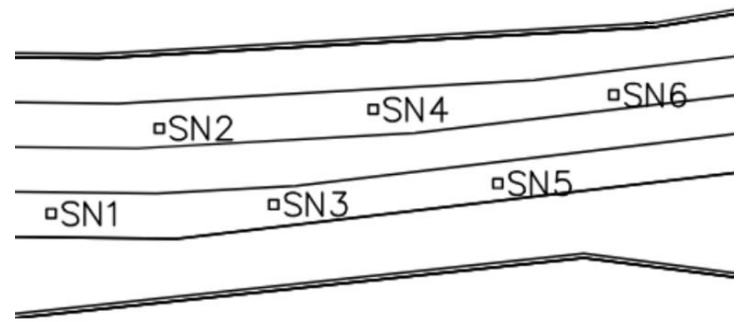
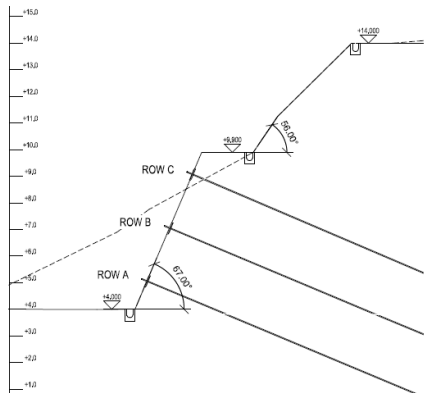
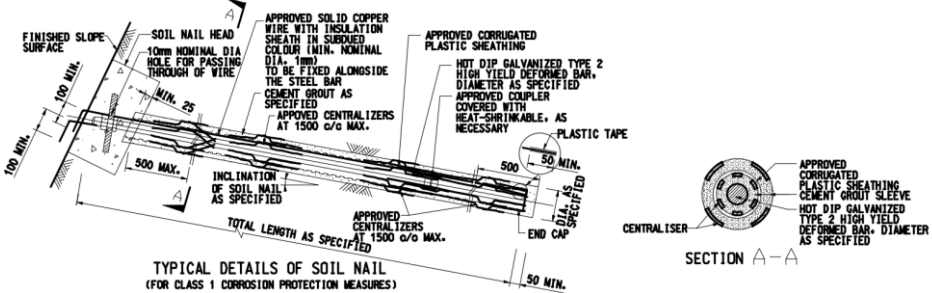
PLAN VIEW OF OBJECT (WITH ANNOTATION)



SECTION VIEW OF OBJECT (WITH ANNOTATION)



3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT	SOIL NAIL	
 <p data-bbox="418 625 676 653">PLAN VIEW OF OBJECT</p>	 <p data-bbox="1338 625 1626 653">SECTION VIEW OF OBJECT</p>	 <p data-bbox="2228 625 2605 653">3D VIEW(FOR REFERENCE ONLY)</p>
 <p data-bbox="278 1094 822 1121">PLAN VIEW OF OBJECT (WITH ANNOTATION)</p>	 <p data-bbox="1190 1094 1774 1121">SECTION VIEW OF OBJECT (WITH ANNOTATION)</p>	 <p data-bbox="2267 1094 2555 1121">DETAILS (2D DRAFTING)</p>

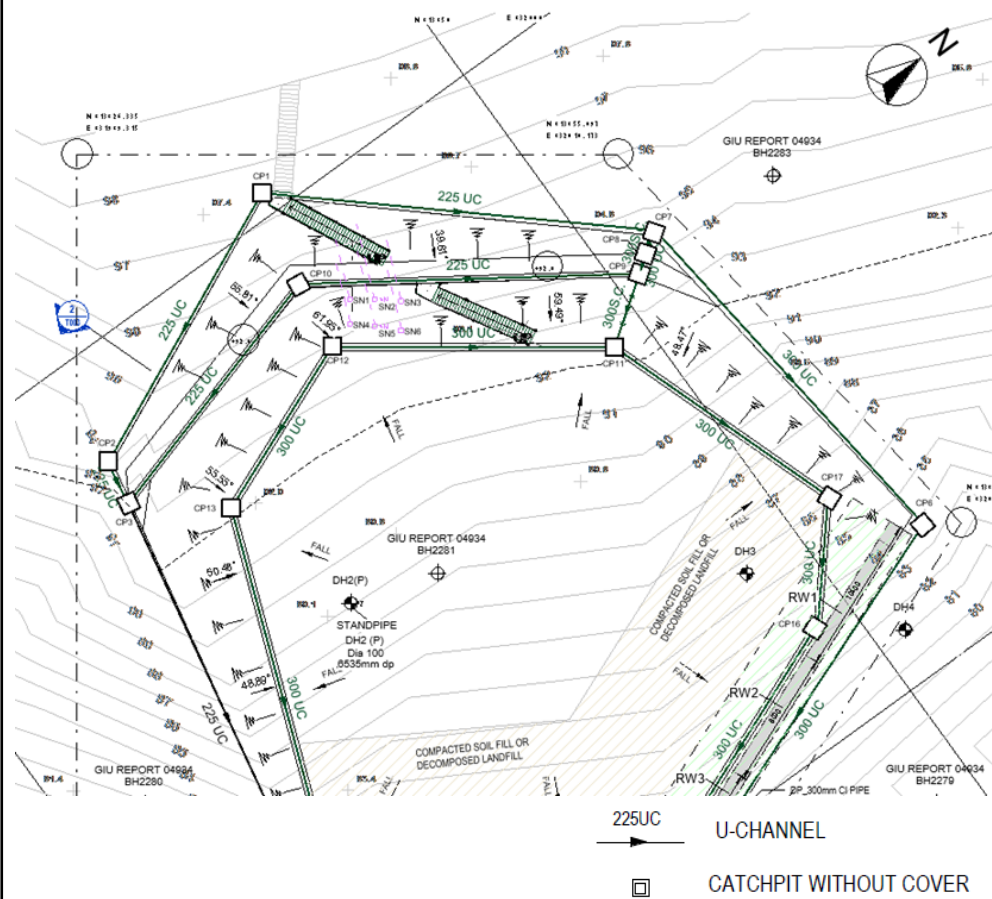
■ Geometrical information ■ Non-geometrical information

Soil Nail Schedule								
Soil Nail Type	Soil Nail Head Type	Mark	Soil Nail Diameter	Soil Nail Inclination	Soil Nail Total Length	Hole Diameter	Designed Anchorage Length	Bearing Angle
			(mm)	(degree)	(mm)	(mm)	(mm)	(degree)
Soil Nail with Typical Nail Head	Nail Head 800 x 800	SN 1	50	20	4000	100	1500	155

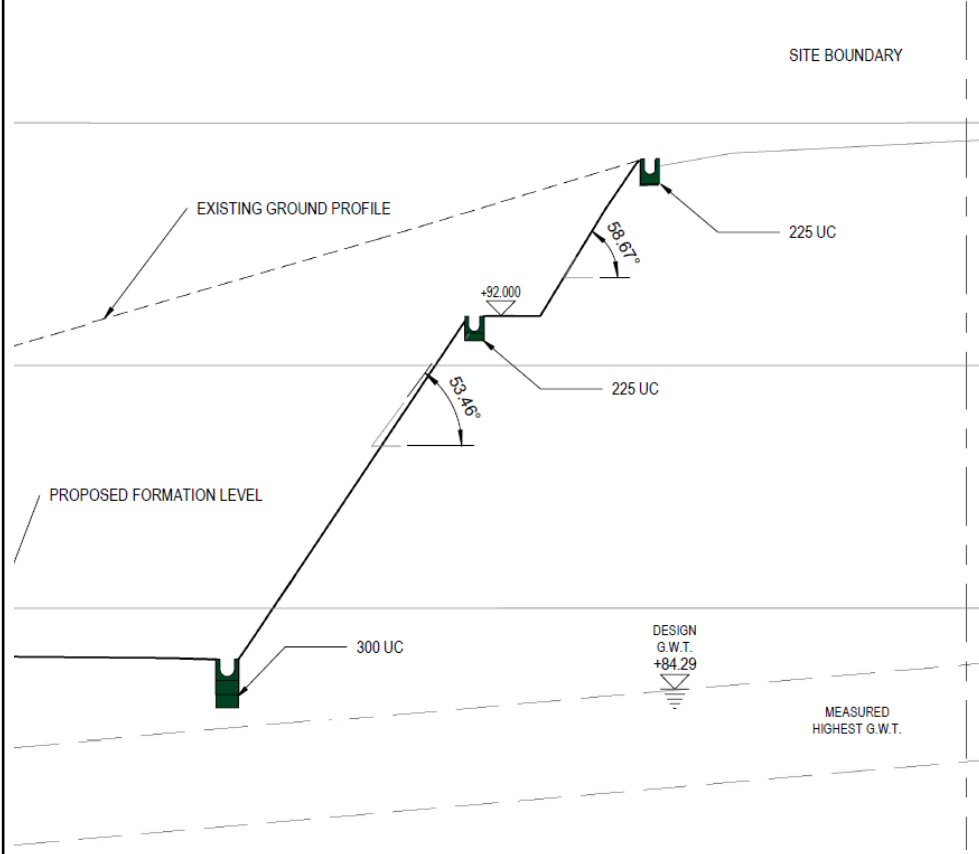
SCHEDULE

BIM OBJECT

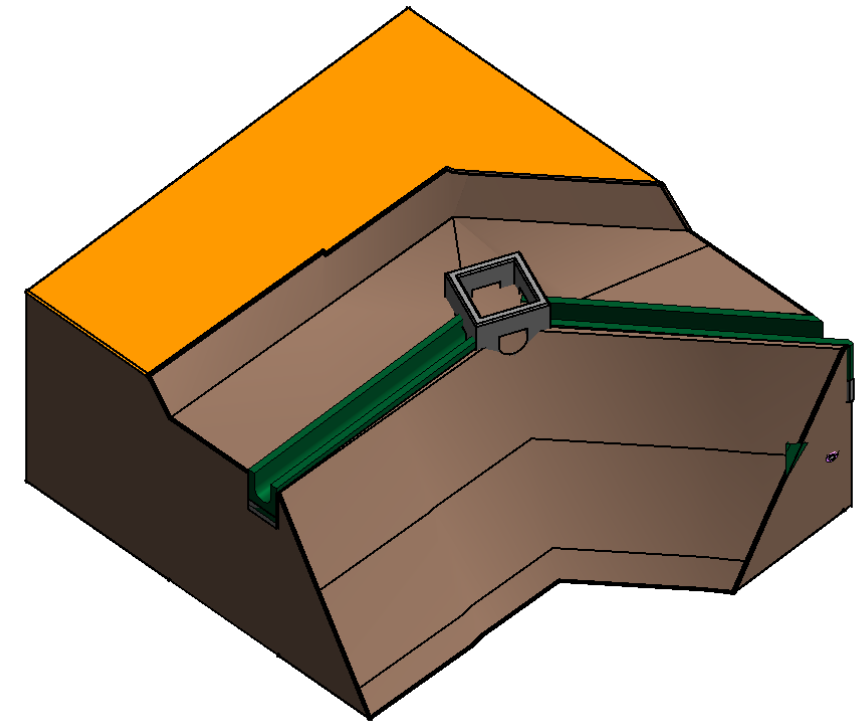
SLOPE DRAINAGE, U-CHANNEL,
CATCHPIT WITHOUT COVER



PLAN VIEW OF OBJECT (WITH ANNOTATION)

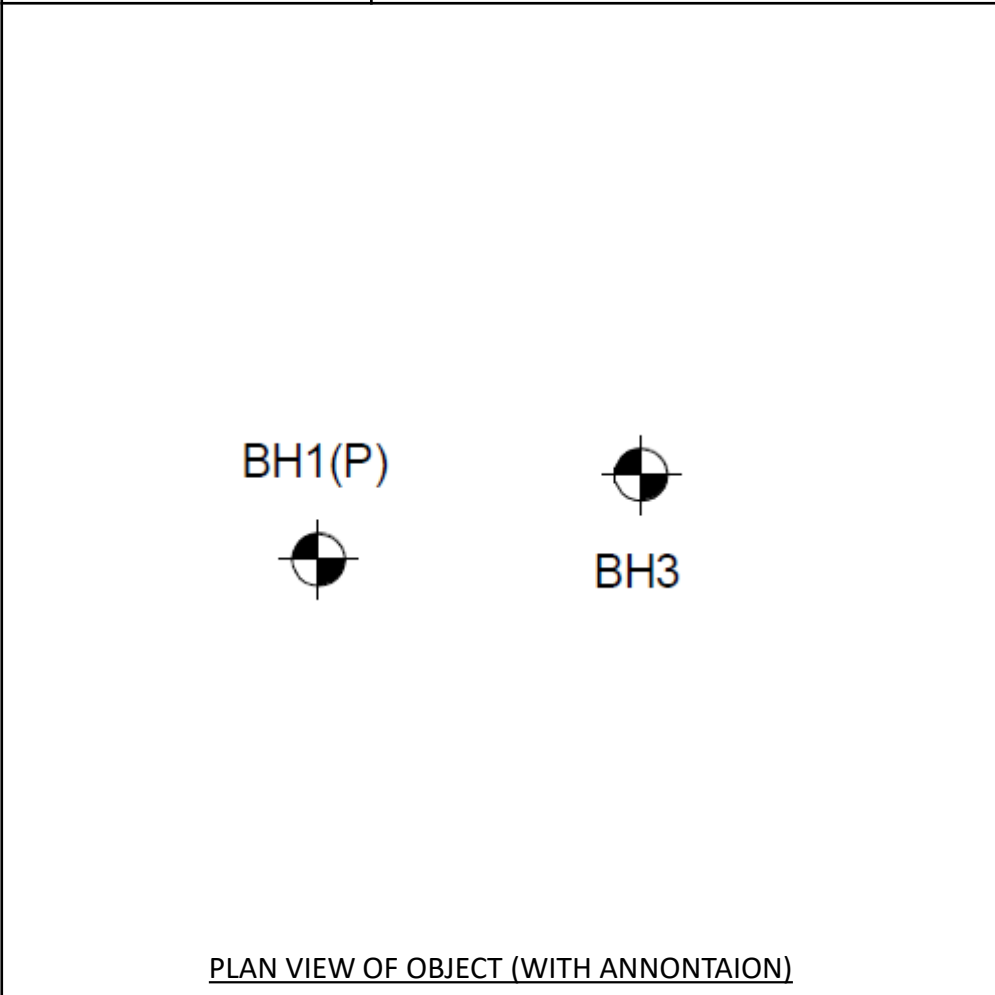


SECTION 2 VIEW OF OBJECT (WITH ANNOTATION)

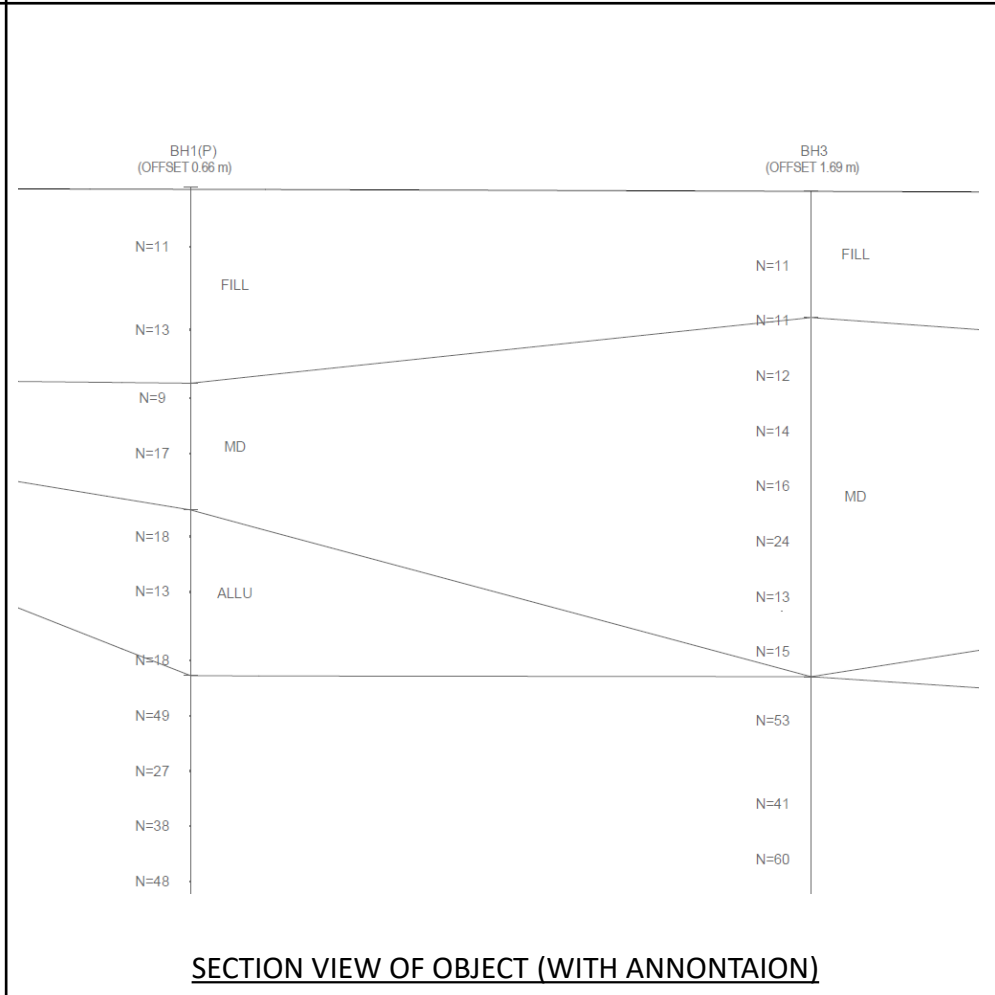


3D VIEW(FOR REFERENCE ONLY)

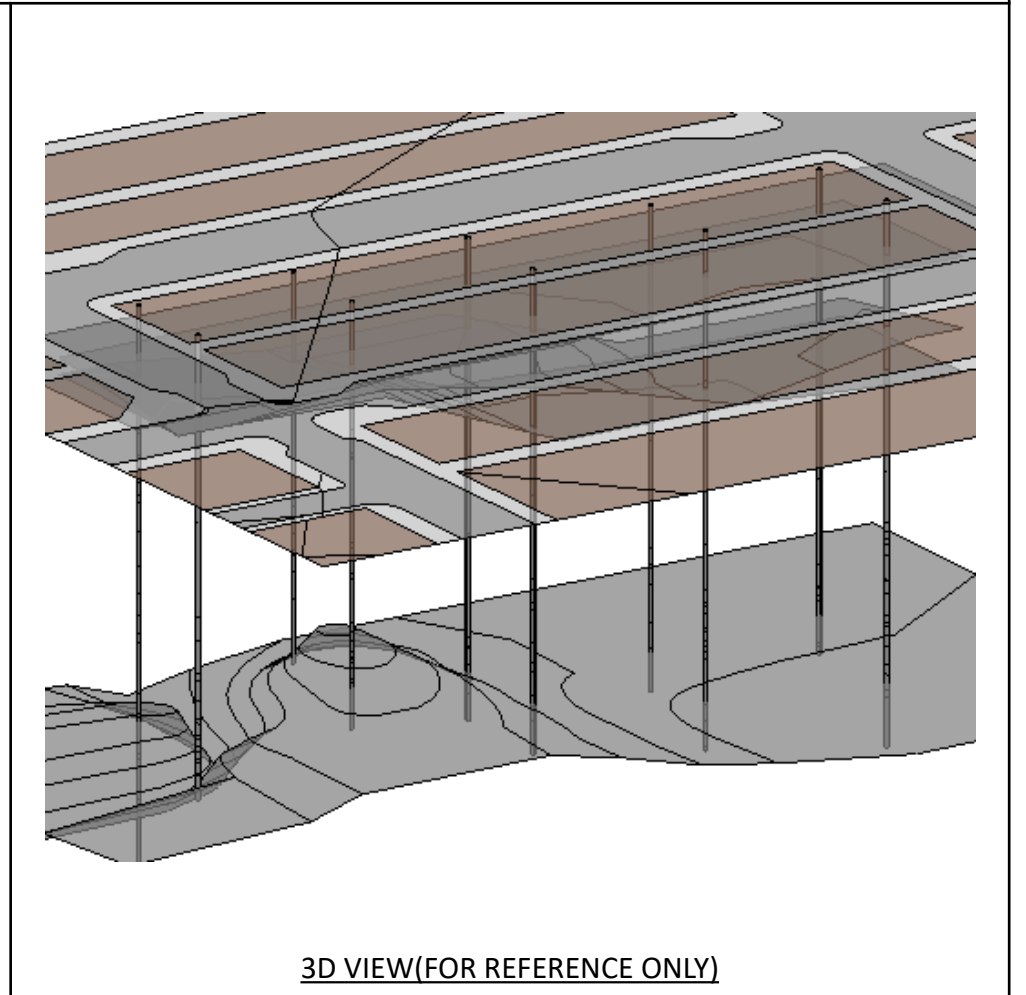
BIM OBJECT ROCK CORE SAMPLE



PLAN VIEW OF OBJECT (WITH ANNOTATION)

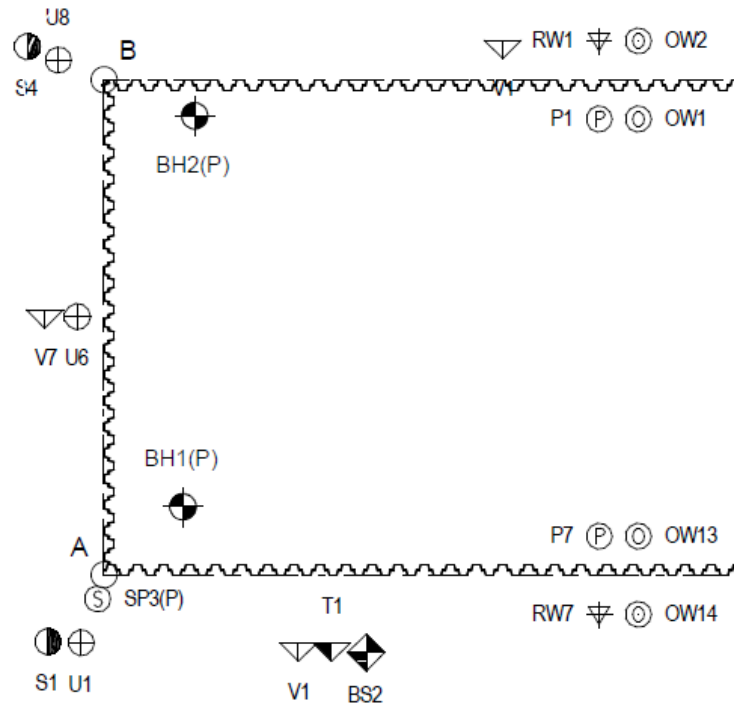


SECTION VIEW OF OBJECT (WITH ANNOTATION)



3D VIEW(FOR REFERENCE ONLY)

BIM OBJECT	MONITORING INSTRUMENTS		
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PLAN VIEW OF OBJECT (WITH ANNOTATION)

■ Geometrical information ■ Non-geometrical information

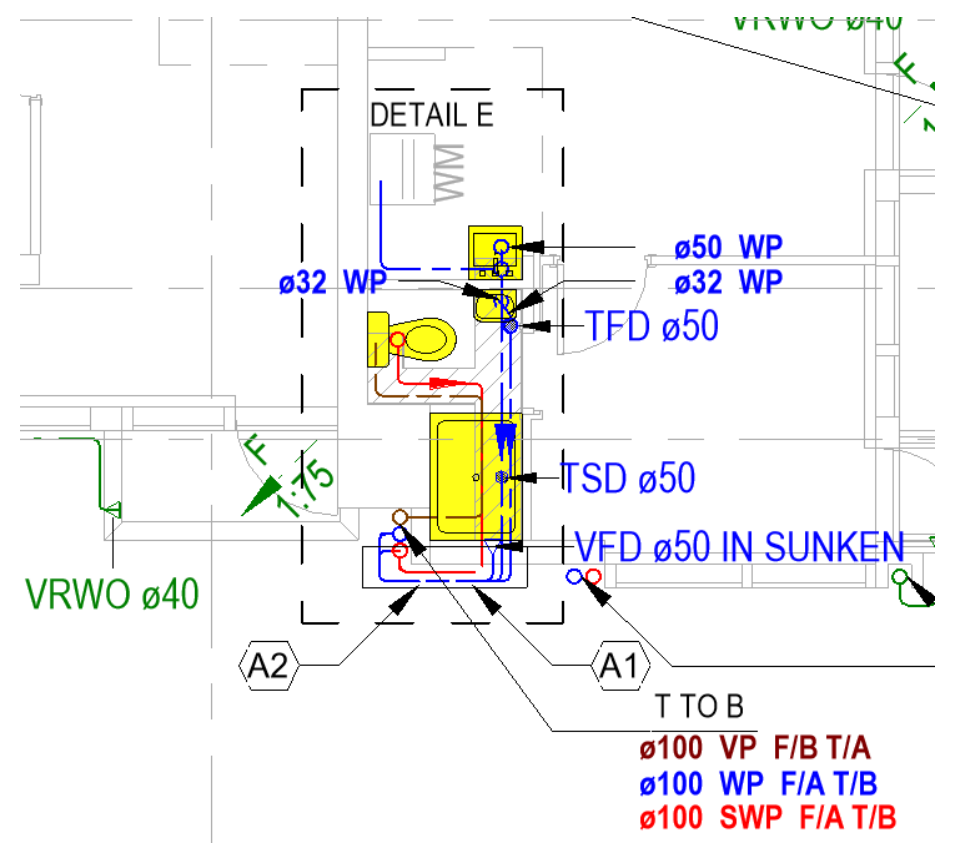
INSTRUMENT SCHEDULE		
SYMBOL	TYPE	NUMBER
◆ BS1	BUILDING SETTLEMENT MARKER (BS1-BS12)	12
▲ T1	BUILDING TILTING CHECK POINT WITH VERTICAL DISPLACEMENT (T1-T11)	11
● S1	GROUND SETTLEMENT CHECK POINT (S1-S10)	10
⊙ OW1	OBSERVATION WELL (OW1-OW14)	14
⊙ P1	PUMP WELL (P1 TO P7)	7
▽ RW1	RECHARGE WELL (RW1-RW7)	7
⊙ SP1(P)	STANDPIPE (WITH PIEZOMETER) (SP1(P) TO SP5(P))	5
⊕ U1	UTILITY SETTLEMENT MONITORING POINT ON GROUND (U1-U12)	12
△ V1	VIBRATION CHECK POINT (V1-V11)	11

SCHEDULE

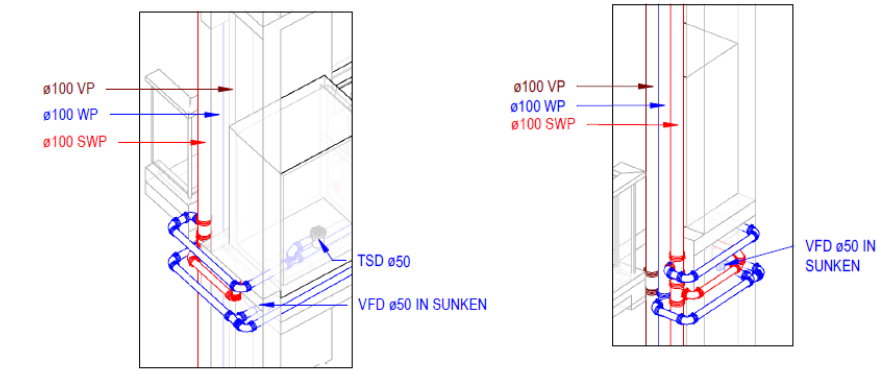


3D VIEW(FOR REFERENCE ONLY)

DRAWING TITLE	DRAINAGE PIPE	
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PLAN

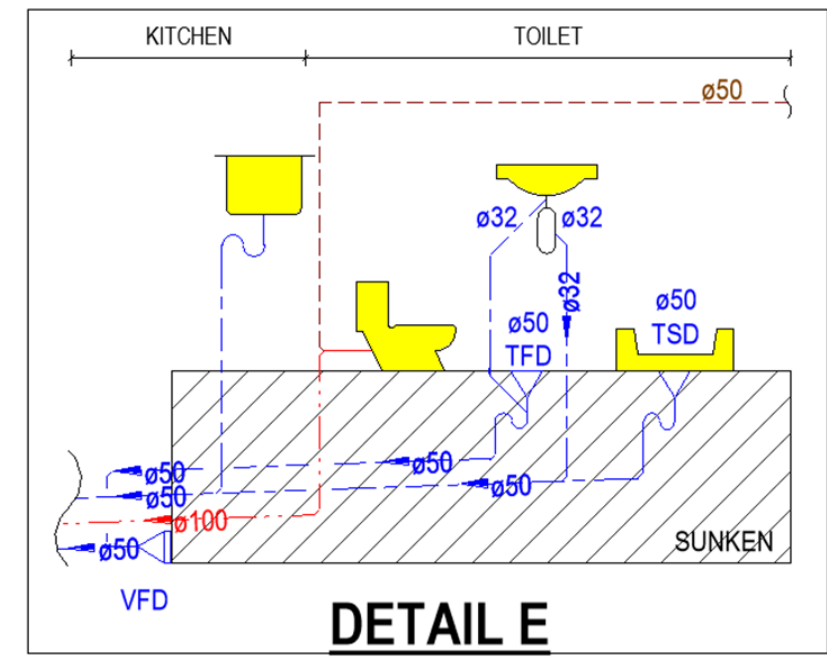


A1 3D View-Right (for reference only)
(Not to scale)

A2 3D View-Left (for reference only)
(Not to scale)

3D VIEW(FOR REFERENCE ONLY)

- DIRECTION OF FLOW
- WASTE PIPE
- SOIL & WASTE PIPE / SOIL PIPE
- RAIN WATER PIPE
- VENTILATING PIPE/
ANTI-SYPHONAGE PIPE
- A/C CONDENSATION DRAIN PIPE

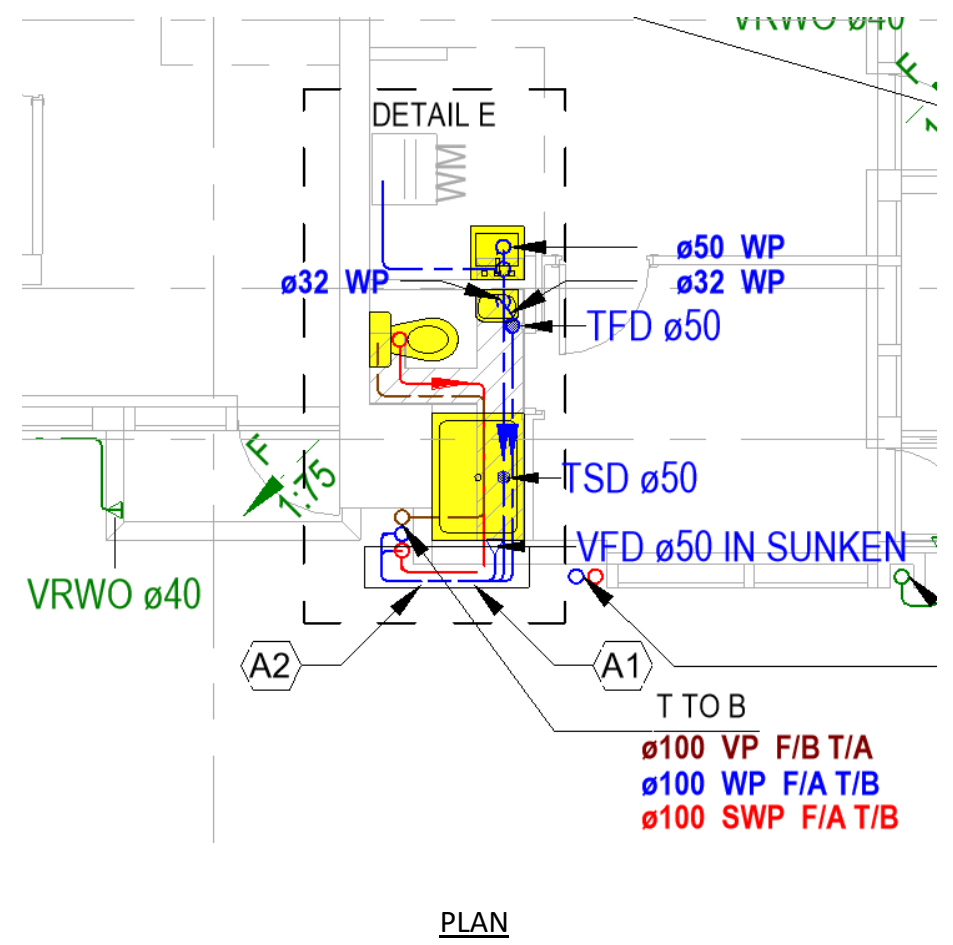


DETAIL E

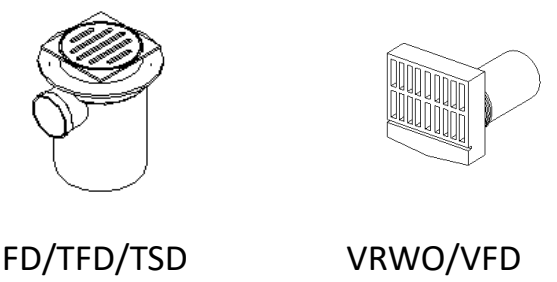
1 : 100

SCHEMATIC DIAGRAM

DRAWING TITLE	DRAIN
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PLAN

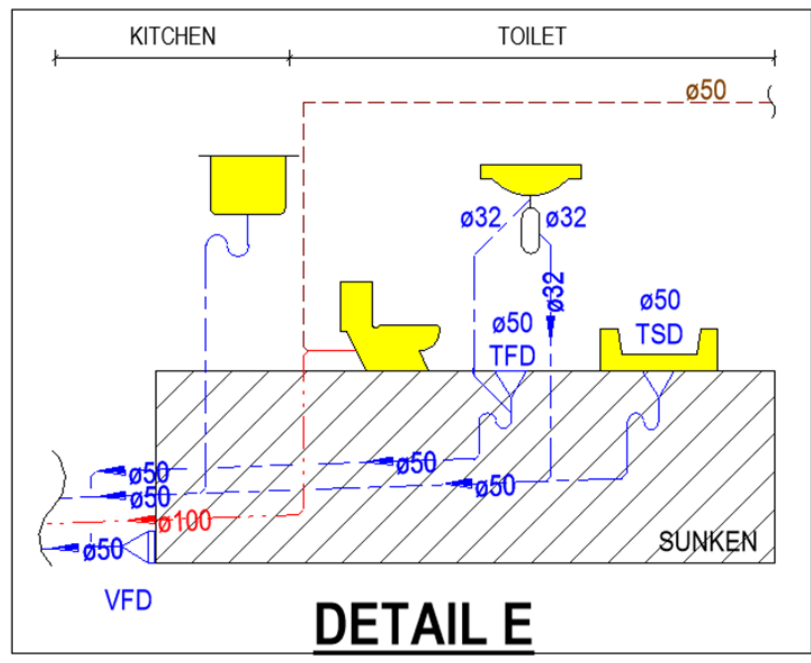


FD/TFD/TSD

VRWO/VFD

3D VIEW(FOR REFERENCE ONLY)

- VRWO VERTICAL RAIN WATER OUTLET
- RWO RAIN WATER OUTLET
- TFD TOP ACCESS FLOOR DRAIN
- TSD TOP ACCESS SHOWER DRAIN
- FD FLOOR DRAIN
- VFD VERTICAL FLOOR DRAIN

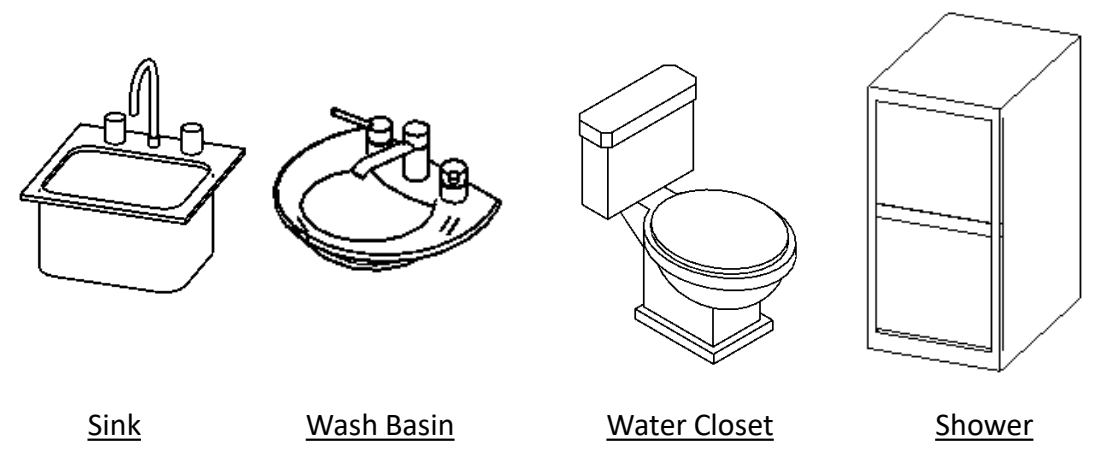
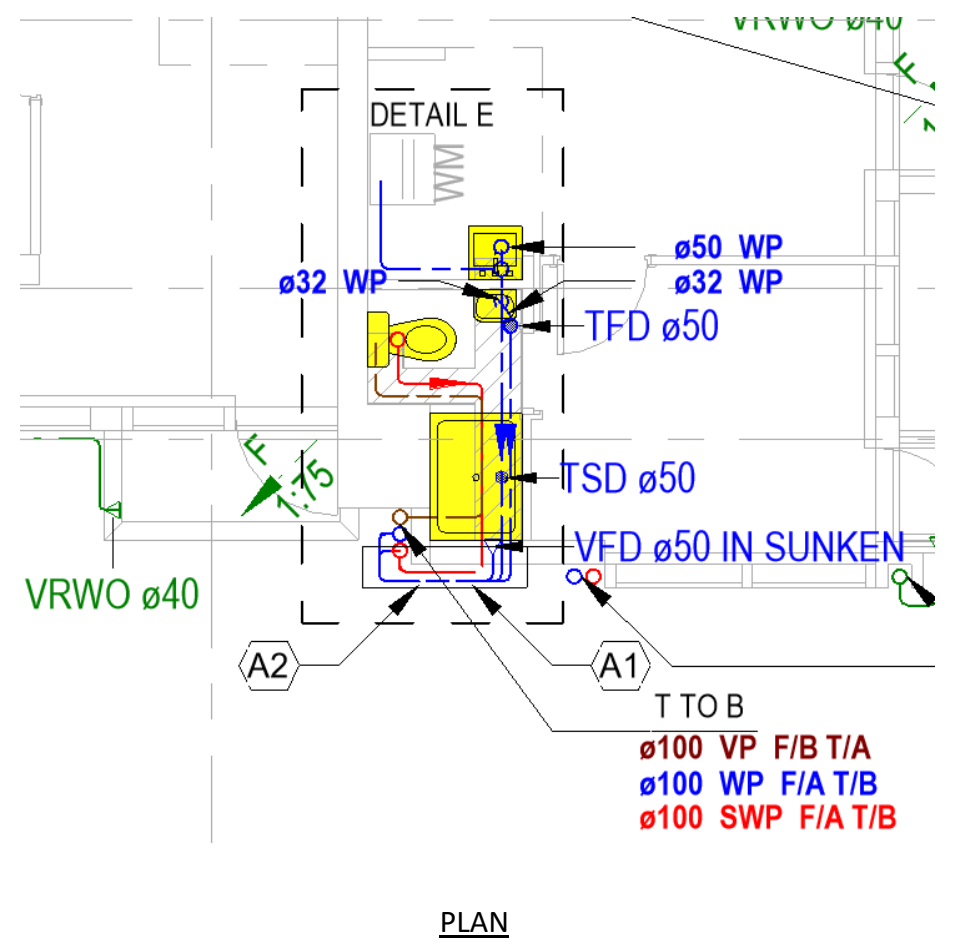


DETAIL E

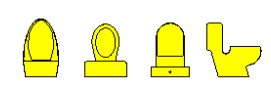




1 : 100

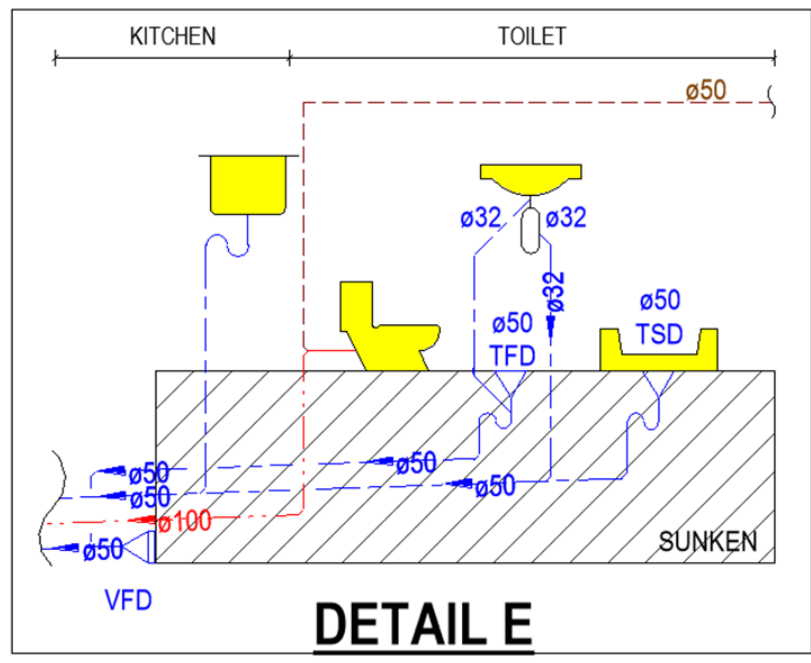
SCHMATIC DIAGRAM

DRAWING TITLE	SANITARY FITMENT	
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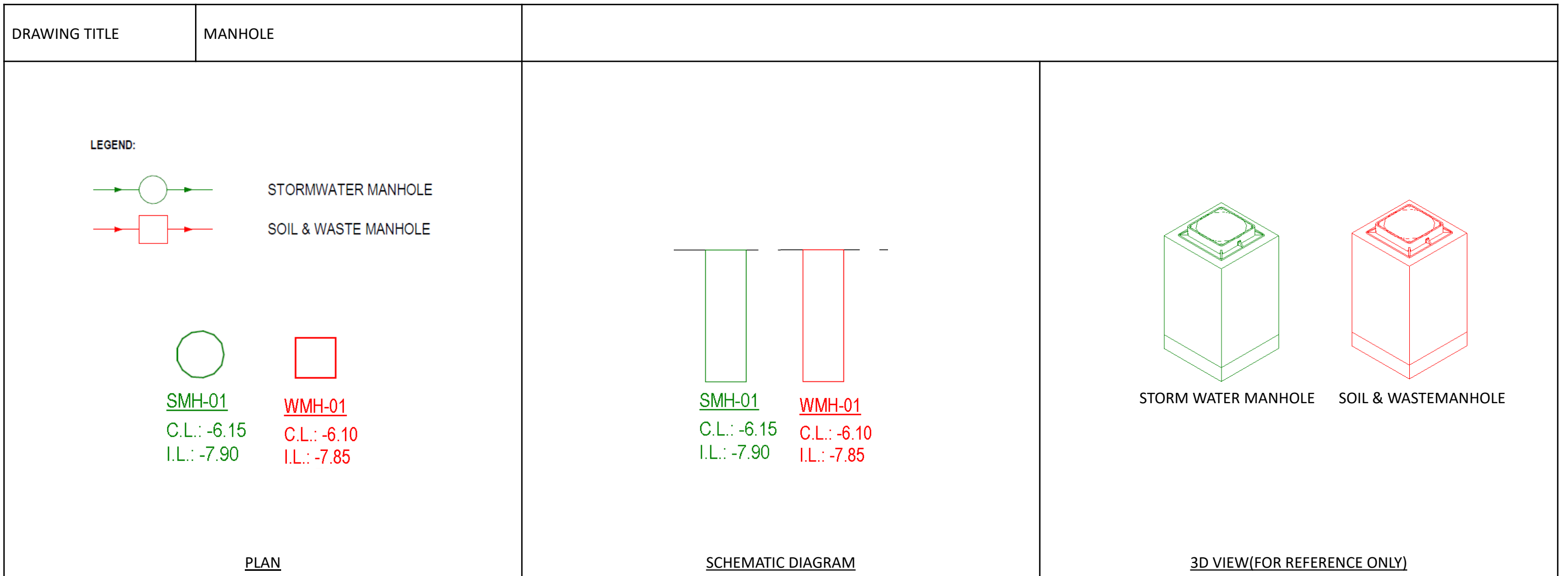
3D VIEW(FOR REFERENCE ONLY)

-  WATER CLOSET
-  WASH BASIN
-  SINK
-  URINAL
-  SHOWER



1 : 100

SCHMATIC DIAGRAM



■ Geometrical information ■ Non-geometrical information

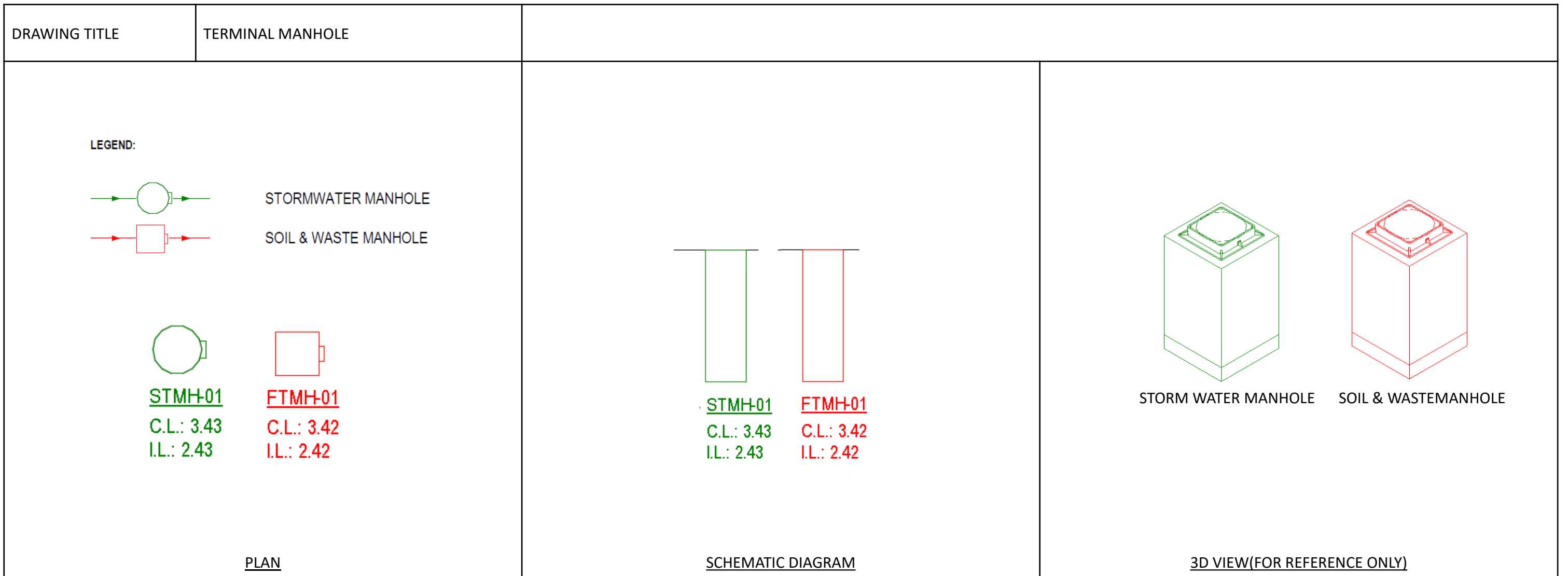
STORM WATER MANHOLE SCHEDULE					
MANHOLE NO.	DRAIN DIAMETER (mm)	C.L.	I.L.	DEPTH (mm)	TYPE
SMH-01	150	-6.15	-7.9	1750	D1

Grand total: 1

FOUL WATER MANHOLE SCHEDULE					
MANHOLE NO.	DRAIN DIAMETER (mm)	C.L.	I.L.	DEPTH (mm)	TYPE
WMH-01	150	-6.1	-7.85	1750	D1

Grand total: 1

SCHEDULE



■ Geometrical information ■ Non-geometrical information

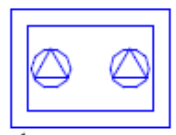
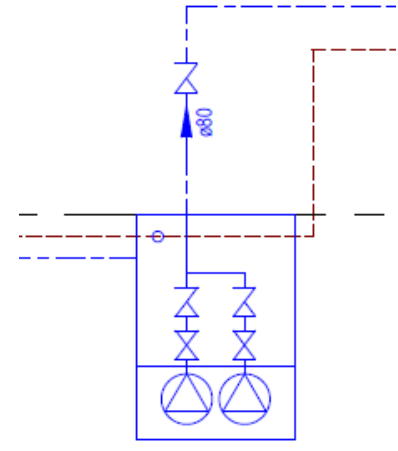
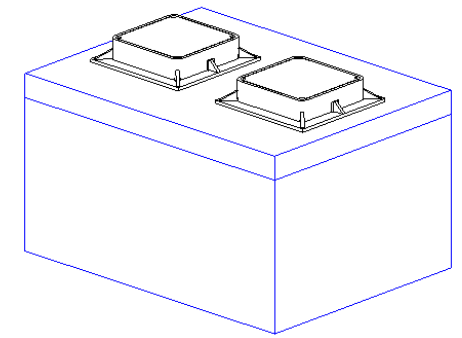
FOUL WATER TERMINAL MANHOLE SCHEDULE						
MANHOLE NO.	DRAIN DIAMETER (mm)	C.L.	I.L.	D.T.I.L.	DEPTH (mm)	TYPE
FTMH-01	225	+3.42	+2.42	+2.27	1150	T1_1

Grand total: 1

STORM WATER TERMINAL MANHOLE SCHEDULE						
MANHOLE NO.	DRAIN DIAMETER (mm)	C.L.	I.L.	D.T.I.L.	DEPTH (mm)	TYPE
STMH-01	225	+3.43	+2.43	+2.28	1150	T1_1

Grand total: 1

SCHEDULE

DRAWING TITLE	SUMP PIT		
<p>SWPP-01 FLOW: 6.0 L/s HEAD: 20.0 m EFFECTIVE VOLUME: 2000(L) x 1500(W) x 600(D) UNDERGROUND SUMP PIT W/ 2 NOS. SUBMERSIBLE PUMP C.L.: -5.85 I.L.: -6.50</p> 	 <p>UNDERGROUND SUMP PIT SWPP-01 FLOW: 6.0 L/s HEAD: 20.0 m EFFECTIVE VOLUME: 2000(L) x 1500(W) x 600(D)</p>		<p><u>PLAN</u></p> <p><u>SCHEMATIC DIAGRAM</u></p> <p><u>3D VIEW(FOR REFERENCE ONLY)</u></p>

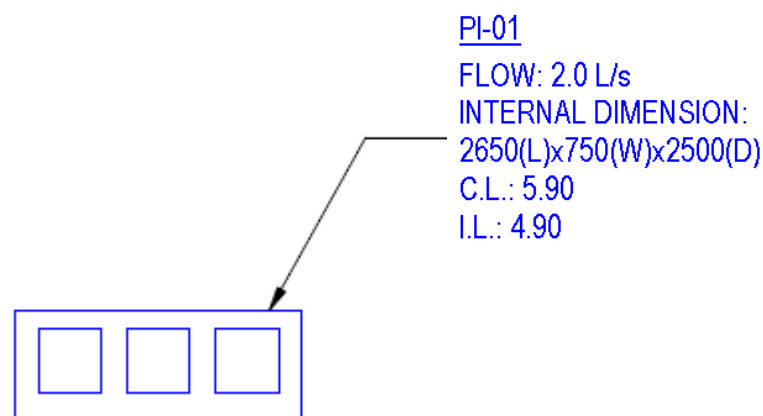
■ Geometrical information ■ Non-geometrical information

SUMP PIT SCHEDULE							
SUMP PIT NO.	SUMP PIT SIZE (LxWxD)	C.L.	I.L.	B.L.	PUMP NO.	PUMP DUTY (EACH)	
						FLOW (l/s)	HEAD (m)
SWPP-01	2000(L) x 1500(W) x 600(D)	-5.85	-6.5	-7.5	SSP01-01,02	6.0	20

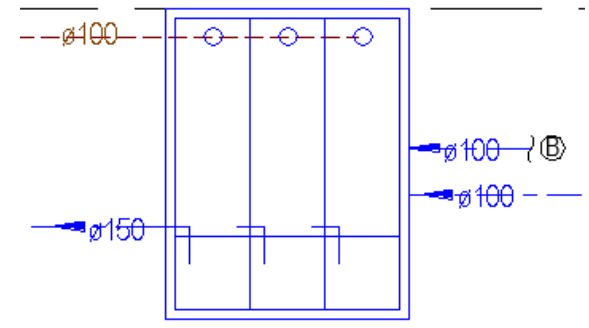
Grand total: 1

SCHEDULE

DRAWING TITLE	PETROL INTERCEPTOR	
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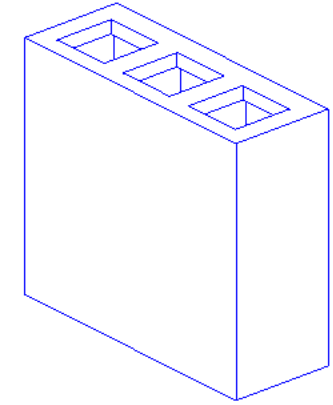


PLAN



PETROL INTERCEPTOR
 PI-01
 FLOW: 2.0 L/s
 INTERNAL DIMENSION:
 2650(L)x750(W)x2500(D)

SCHEMATIC DIAGRAM



3D VIEW(FOR REFERENCE ONLY)

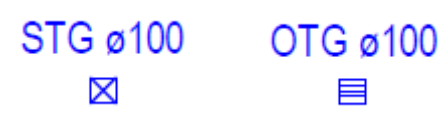
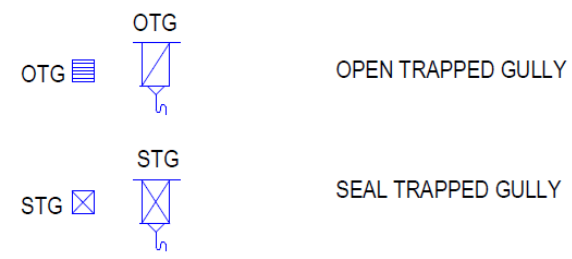
■ Geometrical information ■ Non-geometrical information

PETROL INTERCEPTOR SCHEDULE				
PETROL INTERCEPTOR NO.	C.L.	I.L.	B.L.	DEPTH (mm)
PI-01	+5.9	+4.9	+3.4	2500

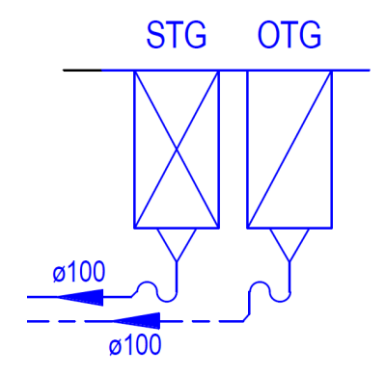
Grand total: 1

SCHEDULE

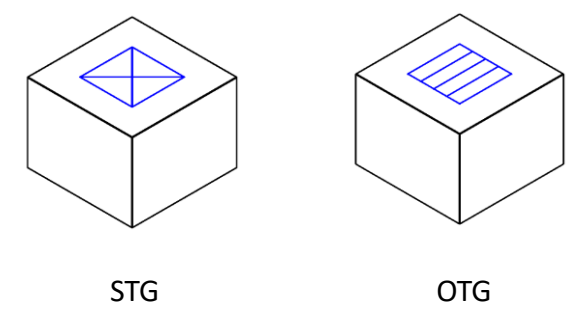
DRAWING TITLE	OPEN TRAPPED GULLY / SEAL TRAPPED GULLY	
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PLAN

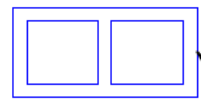


SCHEMATIC DIAGRAM



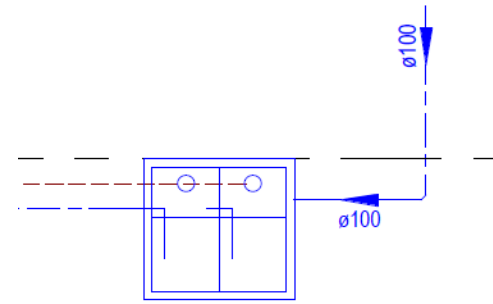
3D VIEW(FOR REFERENCE ONLY)

DRAWING TITLE	GREASE TRAP	
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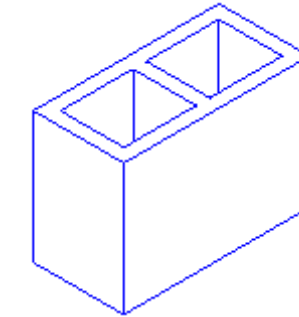
GT-02
 FLOW: 1.0 L/s
 INTERNAL DIMENSION:
 1650(L) x 900(W) x 1000(D)
 UNDERGROUND GREASE
 TRAP

PLAN



GREASE TRAP
 GT-02
 FLOW: 1.0 L/s
 INTERNAL DIMENSION:
 1650(L) x 900(W) x 1000(D)

SCHEMATIC DIAGRAM



3D VIEW(FOR REFERENCE ONLY)

■ Geometrical information ■ Non-geometrical information

GREASE TRAP SCHEDULE			
GREASE TRAP NO.	C.L.	B.L.	DEPTH (mm)
GT-02	-5.9	-6.9	1000

Grand total: 1

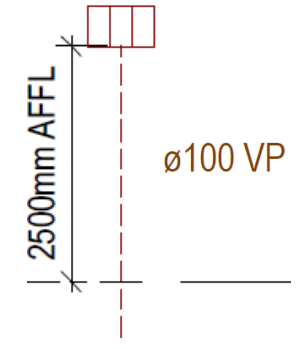
SCHEDULE

DRAWING TITLE	FRESH AIR INLET		
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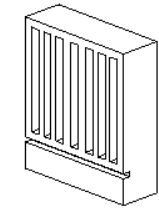
 F.A.I. FRESH AIR INLET


 ø100 VP TERMINATE AT
 H/L W/ FAI GRATING AT
 2500mm AFFL

PLAN



SCHEMATIC DIAGRAM




3D VIEW(FOR REFERENCE ONLY)

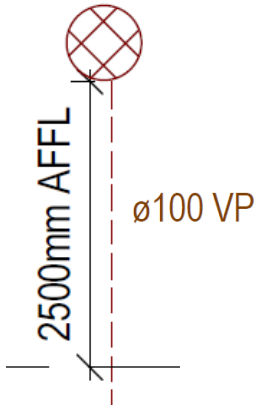
DRAWING TITLE	WIRE BALLON		
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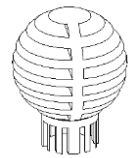
WIRE MESH BALLOON (VENT COWL)


 ø100 VP TERMINATE AT
 H/L W/ BALLOON GRATING
 AT 2500mm AFFL

PLAN



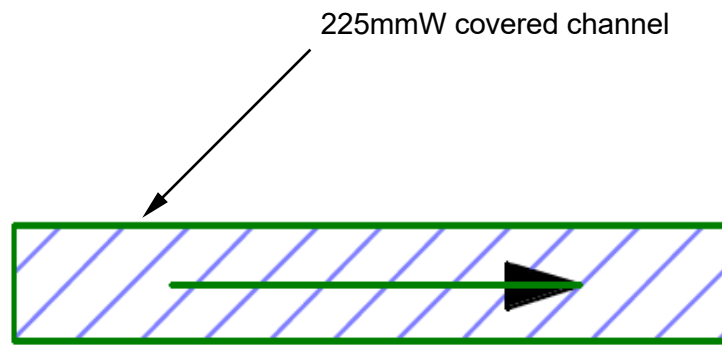
SCHEMATIC DIAGRAM



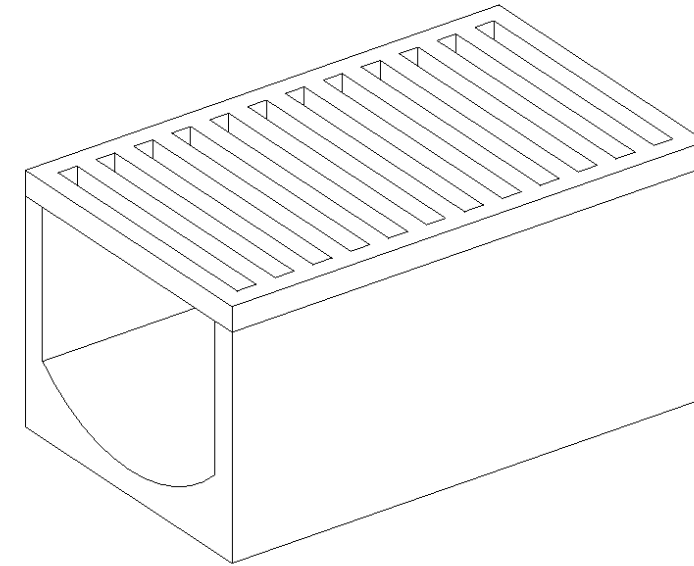
3D VIEW(FOR REFERENCE ONLY)

DRAWING TITLE

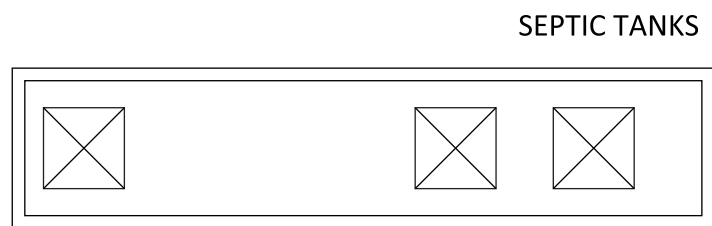
SURFACE CHANNEL



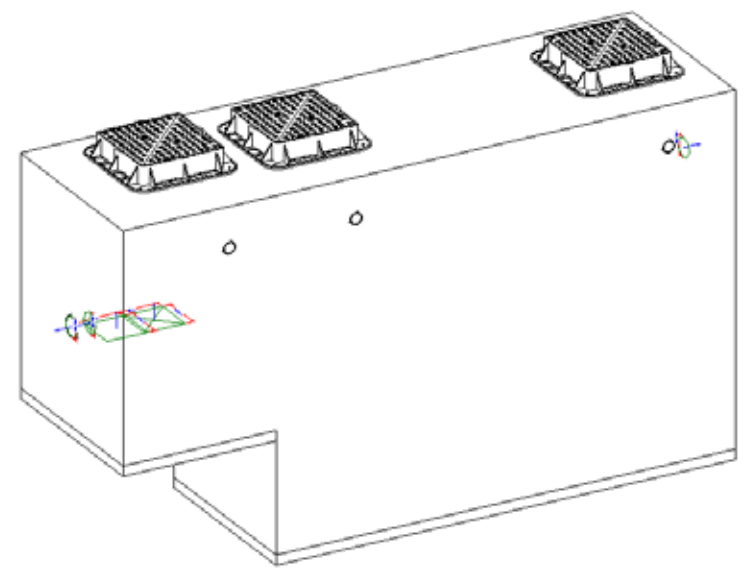
PLAN



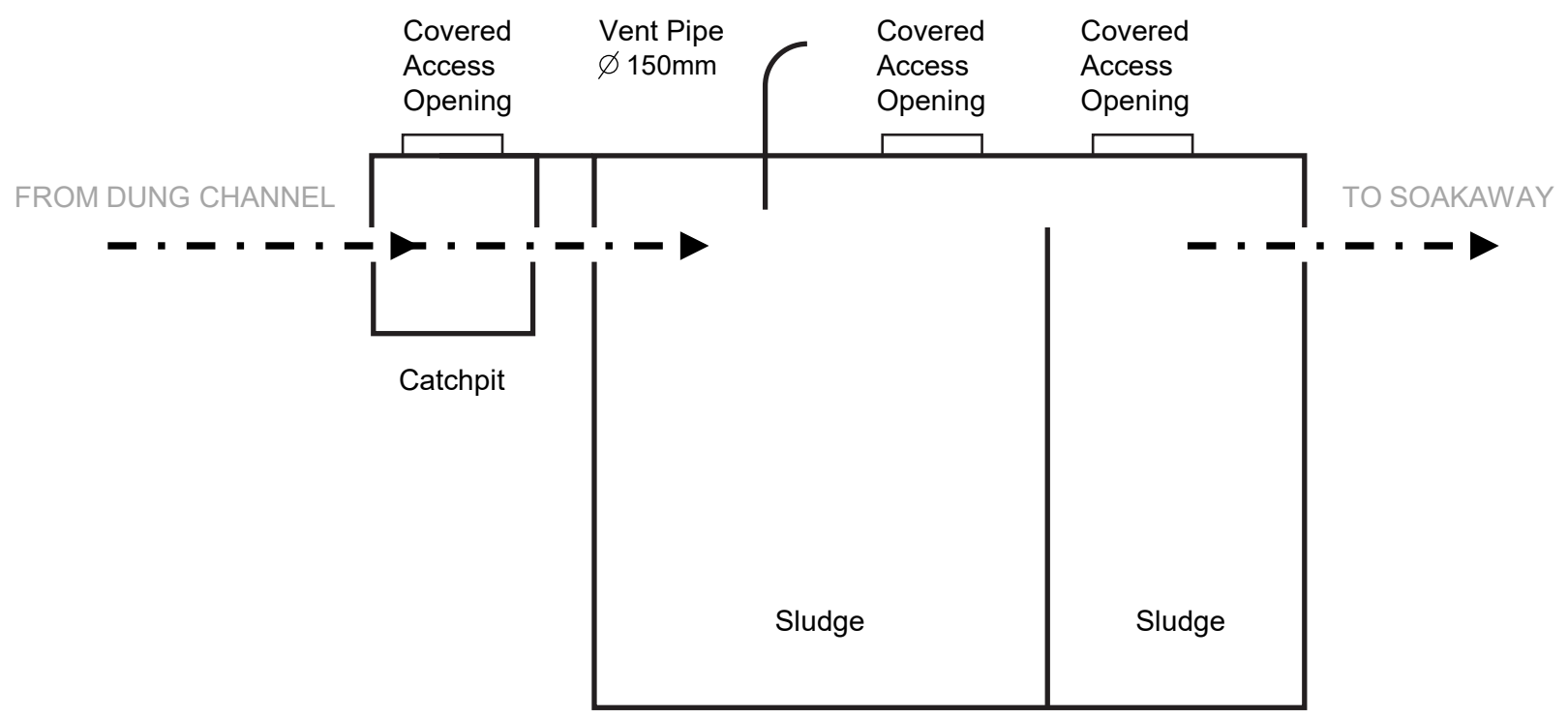
3D VIEW(FOR REFERENCE ONLY)



PLAN



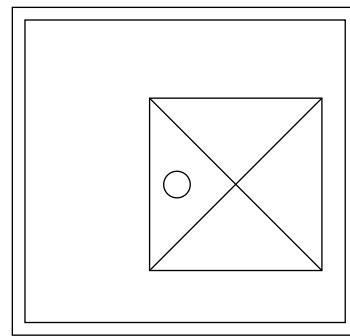
3D VIEW(FOR REFERENCE ONLY)



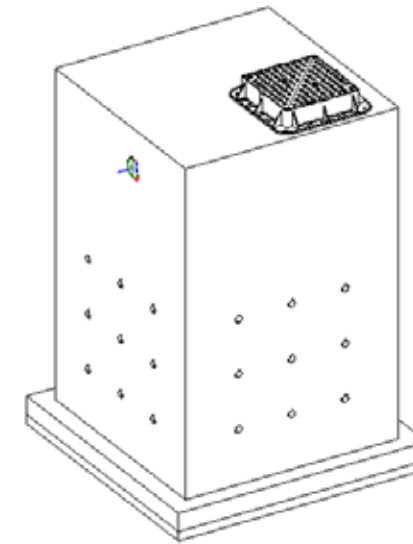
DIAGRAM

DRAWING TITLE	SOAKAWAY PIT	
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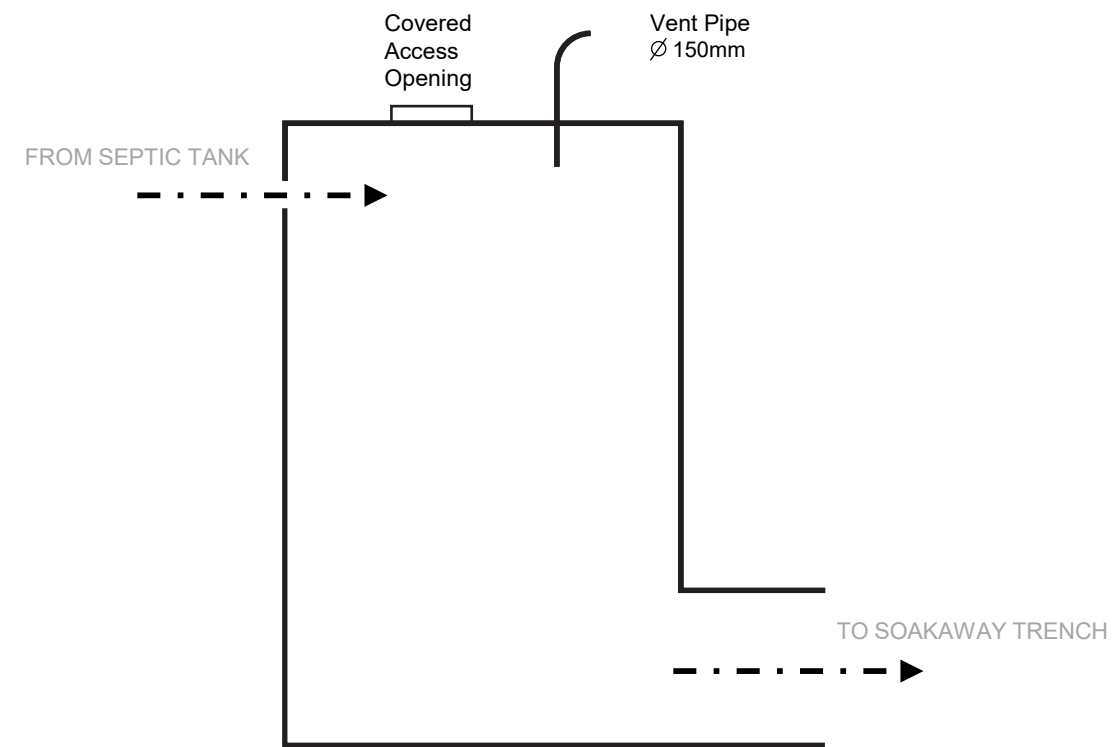
SOAKAWAY PIT



PLAN



3D VIEW(FOR REFERENCE ONLY)



DIAGRAM

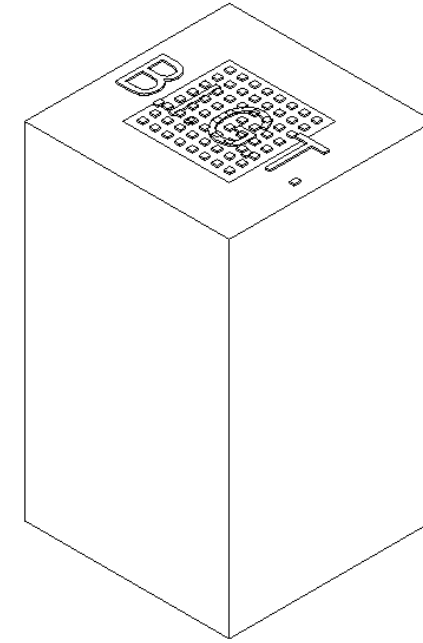
DRAWING TITLE

BACK INLET GULLY TRAP

BACK INLET GULLY TRAP

BIGT 

PLAN

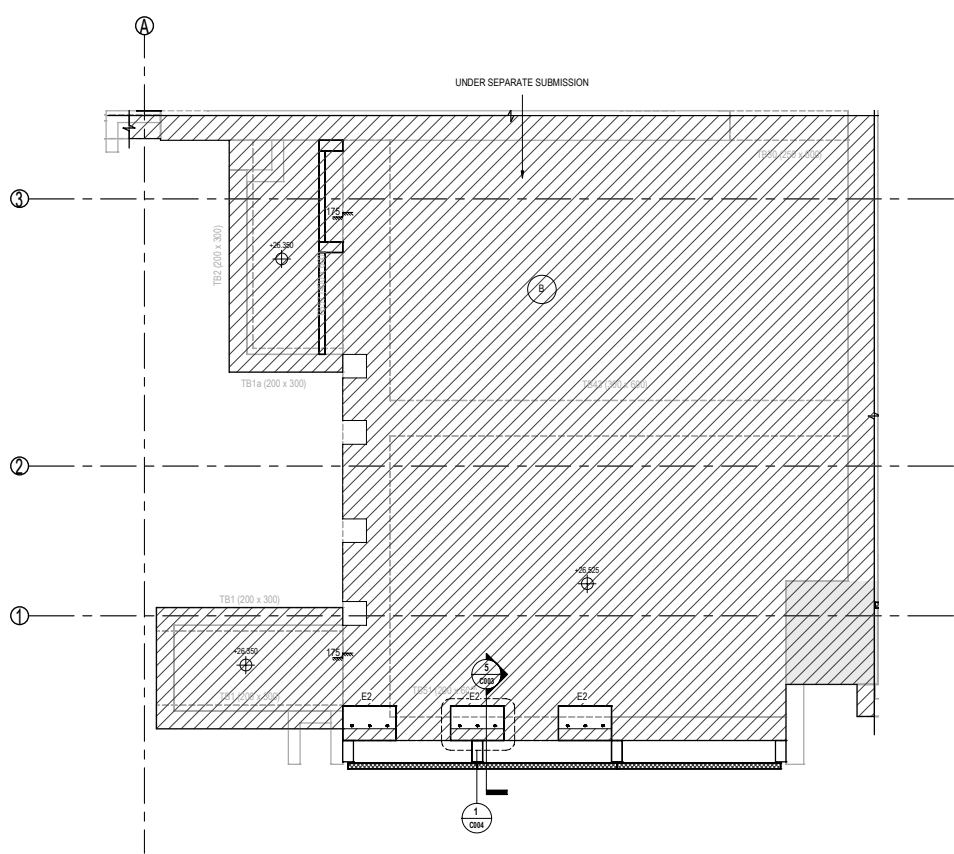


3D VIEW(FOR REFERENCE ONLY)

BIGT

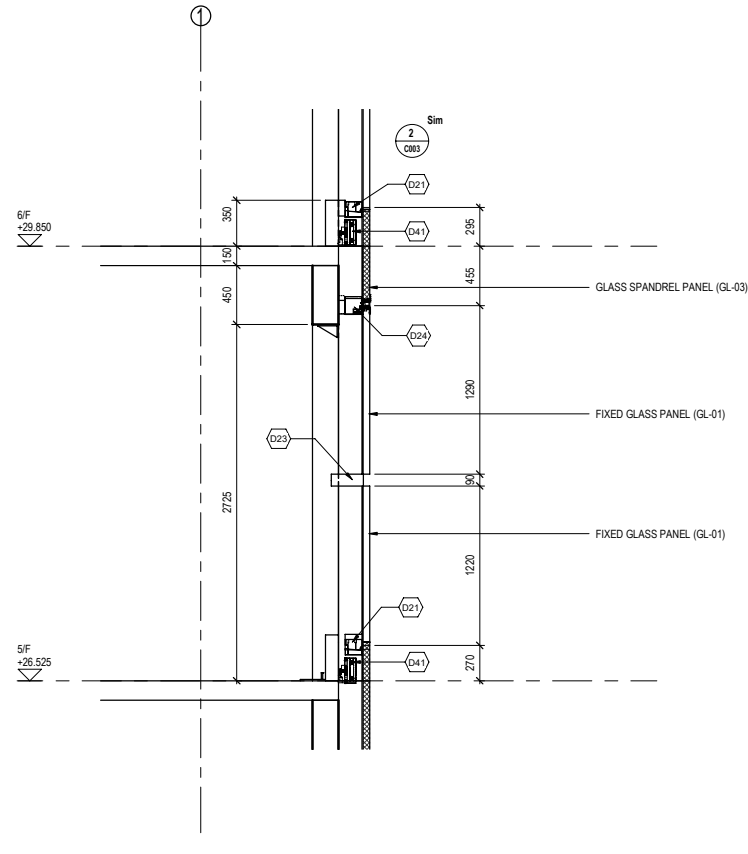


SCHEMATIC DIAGRAM



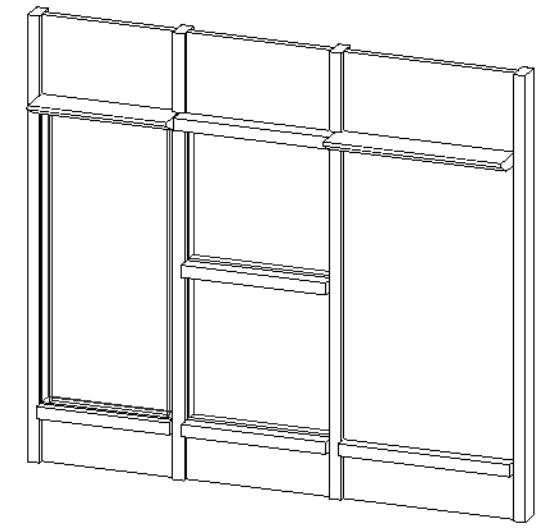
1 5/F CAST-IN LAYOUT PART PLAN (FLAT B)
1:25

PLAN



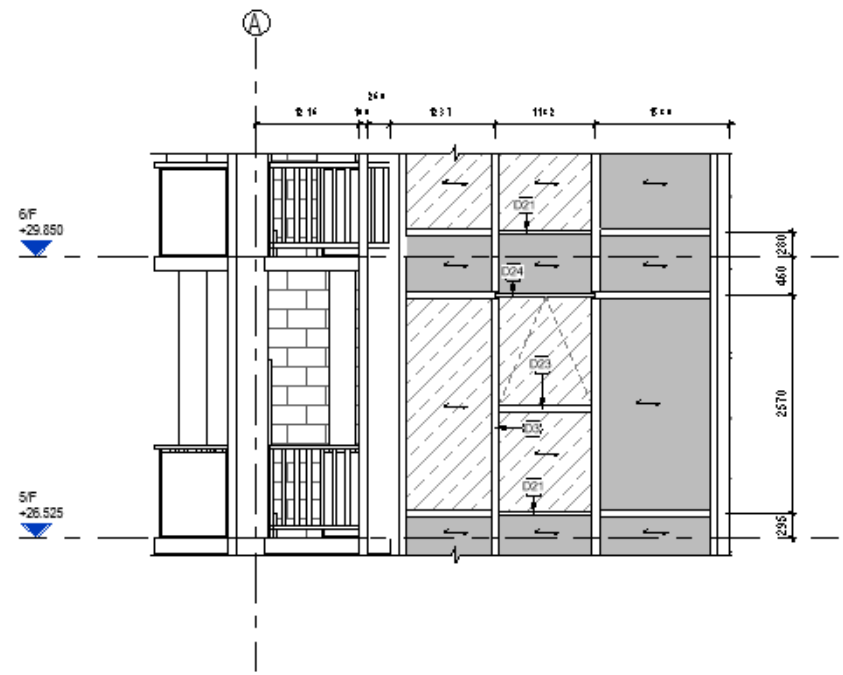
5 Section A
1:25

SECTION A

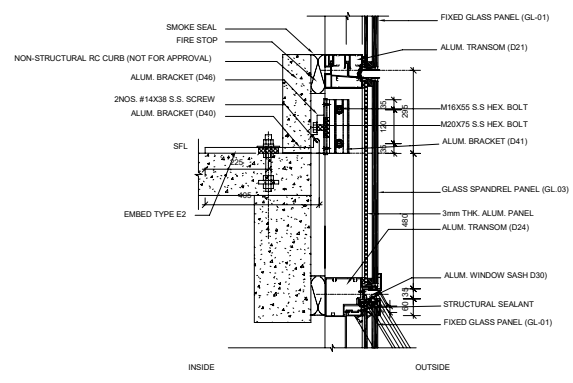


3D VIEW (FOR REFERENCE ONLY)

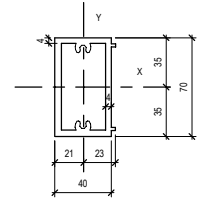
- TP10+12A+TP10mm SILVER GREY GLASS PANEL
GLASS W/LOW-E COATING ON SURFACE (GL-01)
- GLASS SPANDREL PANEL
- OPENABLE WINDOW



ELEVATION

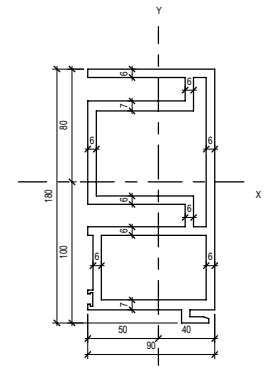


2 TYPICAL TRANSOM FIXING DETAIL
1:10



3 TRANSOM DETAIL (D1)
1:2

D1 ALUM. TRANSOM	SECTION PROPERTY
ALLOY	6063-T6
Area (mm ²)	922.5
Moments of inertia - X (mm ⁴)	59291
Moments of inertia - Y (mm ⁴)	21186
Radii of gyration - X (mm)	25
Radii of gyration - Y (mm)	15
elastic Modulus - Zx (mm ²)	Iy - max = 16941
elastic Modulus - Zy (mm ²)	Ix - max = 9326



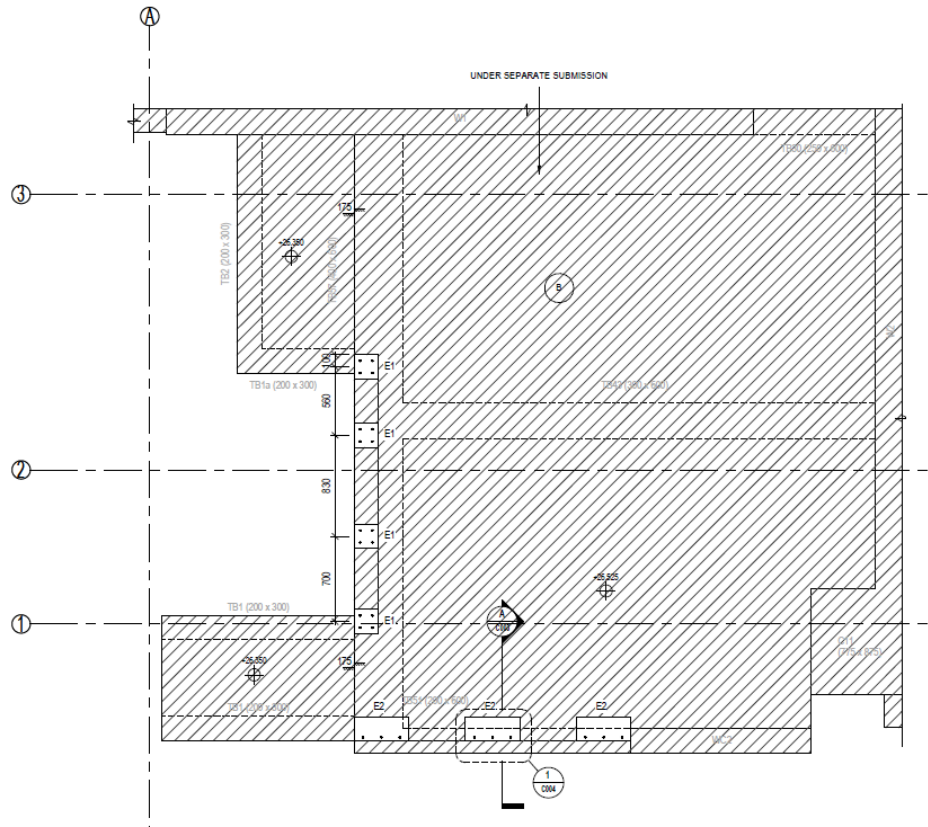
4 MULLION DETAIL (D3)
1:2

D3 ALUM. MULLION	SECTION PROPERTY
ALLOY	6063-T6
Area (mm ²)	2311.8
Moments of inertia - X (mm ⁴)	4509546
Moments of inertia - Y (mm ⁴)	629163
Radii of gyration - X (mm)	44
Radii of gyration - Y (mm)	16
elastic Modulus - Zx (mm ²)	Iy - max = 63137
elastic Modulus - Zy (mm ²)	Ix - max = 26172

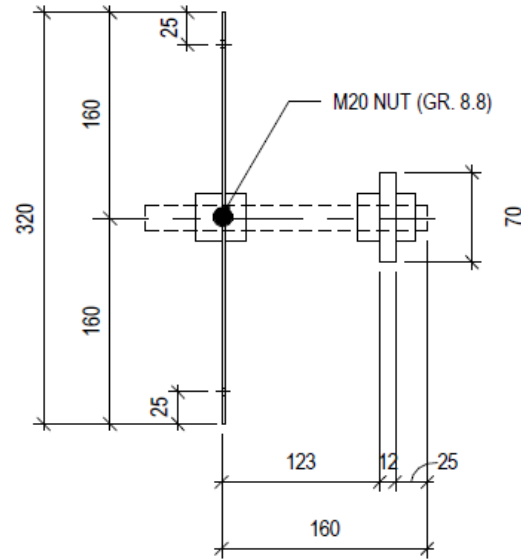
DETAIL (2D DRAFTING)

DRAWING TITLE

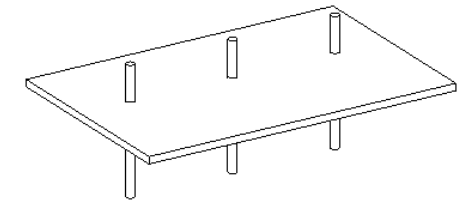
EMBED



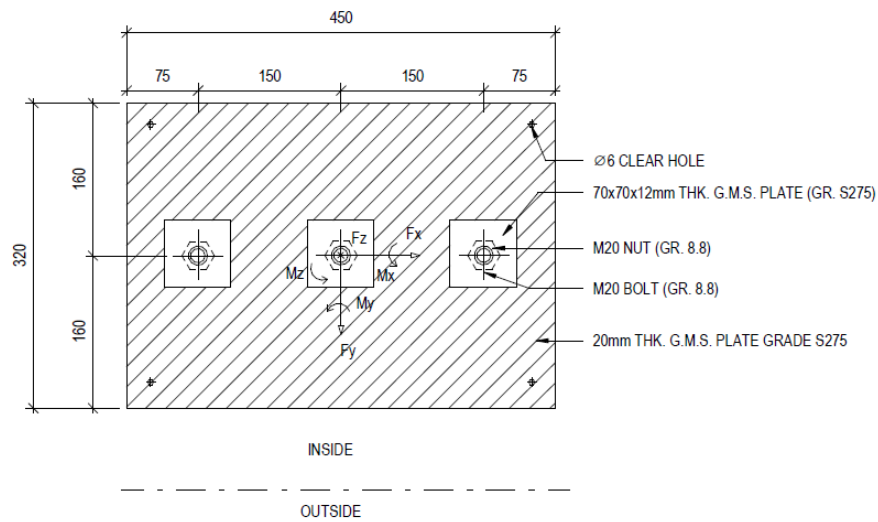
PLAN



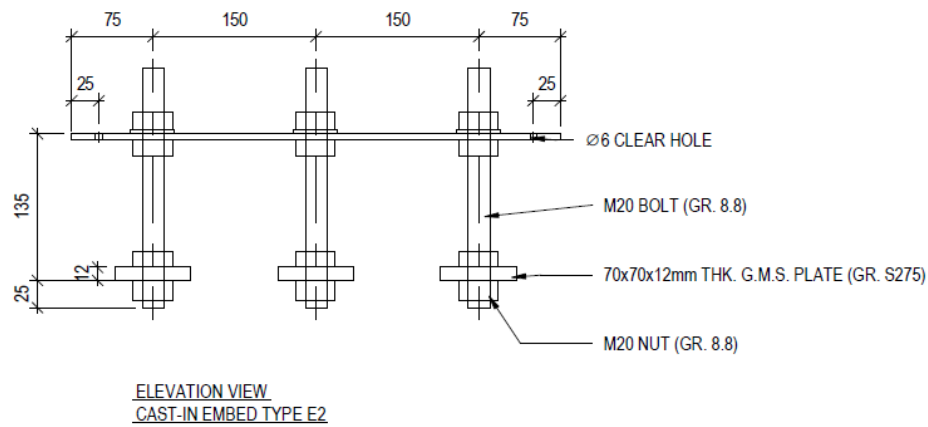
SIDE VIEW (2D DRAFTING)



3D VIEW(FOR REFERENCE ONLY)



PLAN VIEW (2D DRAFTING)



ELEVATION VIEW (2D DRAFTING)

UNFACTORED FORCES FOR CAST-IN EMBED TYPE E2		
	D.L.	W.L.
F_x (kN)	0	0
F_y (kN)	0	39.5
F_z (kN)	-14	0
M_x (kNm)	0.9	2
M_y (kNm)	0	0
M_z (kNm)	0	0

*(W.L.) WIND LOAD ARE REVERSIBLE

LOADING SCHEDULE (2D DRAFTING)