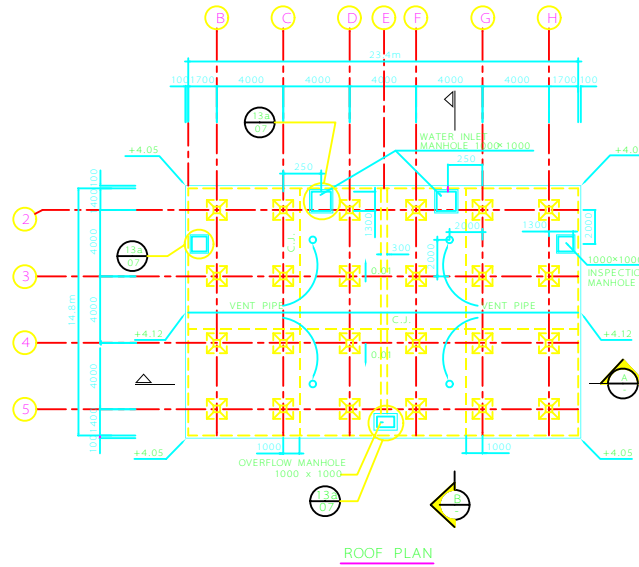
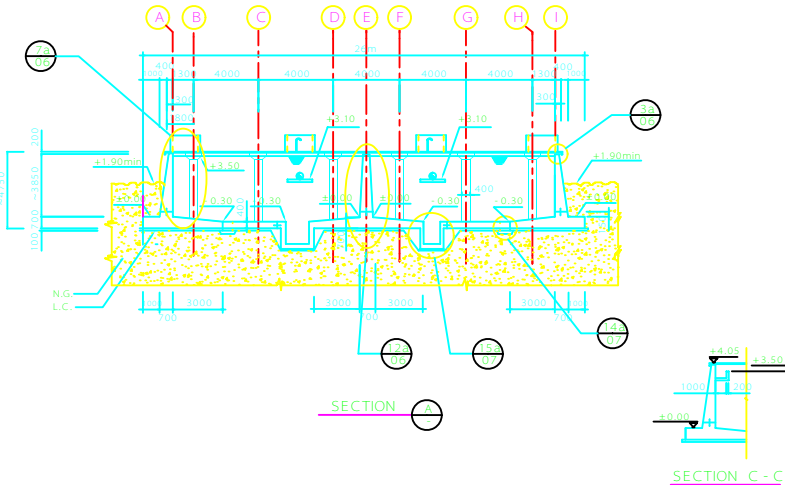


PLAN

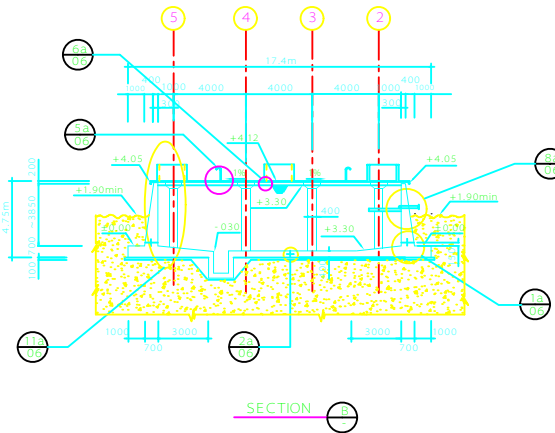


ROOF PLAN



SECTION A-A

SECTION C-C



SECTION B-B

NOTES:

- 1- ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE NOTED ALL LEVELS ARE IN METERS.
- 2- REINFORCED CONCRETE SHALL HAVE A SPECIFIC COMPRESSIVE STRENGTH $f_c=200\text{kg/cm}^2$. WHEN TESTED BY $20\times 20\text{cm}$ CUBES
- 3- PLAIN REINFORCING BARS ARE SHOWN BY THE SYMBOL \emptyset WITH MIN. YIELD STRENGTH OF 2400 Kg/cm^2 .
- 4- DEFORMED BARS ARE SHOWN BY THE SYMBOLS \oplus WITH MIN. YIELD STRENGTH OF 3000kg/cm^2 .
- 5- SPLICES IN REINF. AT POINTS OF MAX. STRESS SHOULD BE AVOIDED. WHEN SPLICES ARE USED THEY SHOULD BE STAGGED WITH A MIN. OVERLAP OF 40 DIA. FOR DEFORMED BARS. NO WELDING OF BARS IS ALLOWED.
- 6- MIN. SOIL BEARING PRESSURE ON NATURAL, UNDISTURBED EARTH IS ASSUMED TO BE 0.7 Kg/cm^2 .
- 7- PROVIDE MIN. 100 MM. THICK LEAN CONCRETE UNDER REINF. CONCRETE BASE OF RESERVOIR, WHICH SHALL BE FINISHED WITH A SMOOTH LEVEL SURFACE.
- 8- CONSTRUCTION JOINTS (C.J.) AND WATER STOPS (W.S.) SHALL OCCUR AT EXACTLY WHERE SHOWN ON DRAWINGS.
- 9- RESERVOIR WALLS AND ROOF SLAB ARE NOT EXPECTED TO WITHSTAND ANY SURCHARGE PRESSURE FROM VEHICLES, AND SNOW LOAD.
- 10- THIS DRAWING IS BASED ON P.B.O. PUBLICATION No. 125 AND STATIC CALCULATIONS ARE IN ACCORDANCE WITH P.B.O. PUBLICATION No.125.
- 11- WATER WLET, OUTLET AND DISCHARGE PIPE MATERIALS AND SIZES TO BE DETERMINED BY MECHANICAL DEPT.

LEGEND

- | | |
|--------|---------------------|
| N.F. | NEAR FACE |
| F.F. | FAR FACE |
| E.F. | EACH FACE |
| E.W. | EACH WAY |
| T.O.F. | TOP OF FOOTING |
| F.B. | FACE BAR |
| W.S. | WATER STOP |
| C.J. | CONSTRUCTION JOINT |
| L.C. | LEAN CONCRETE |
| R.C. | REINFORCED CONCRETE |
| N.G. | NATURAL GROUND |
| C.S. | CEMENT & SAND |
| W | WALL |
| C | COLUMN |

- DETAIL NO. DRWG. No. ON WHICH THE DETAIL IS SHOWN. ON DRAWINGS.
- DETAIL NO. DRWG. No. ON WHICH SECTIONAL VIEW IS SHOWN.
- SYMBOL OF LEVEL ON PLANS (IN METERS)
- SYMBOL OF LEVEL ON VIEWS AND SECTIONS (IN METERS)

NO.	REVISION	DESCRIPTION	DATE

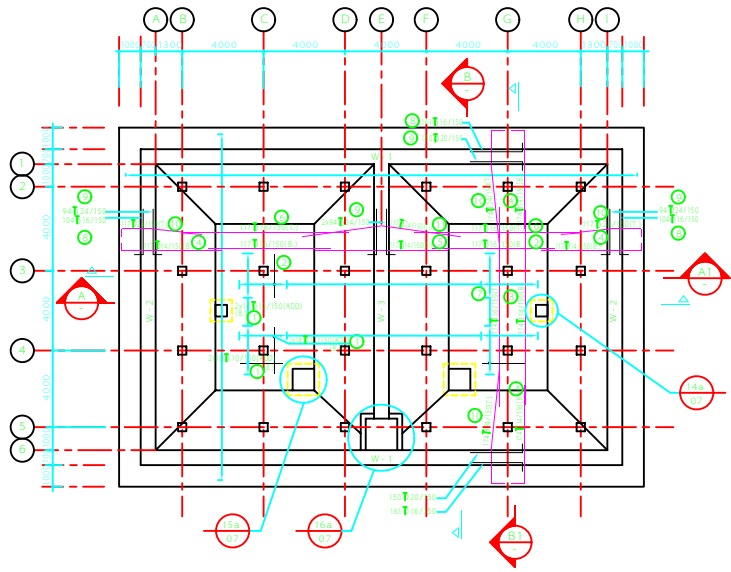
IRANIAN PETROLEUM STANDARDS

NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION

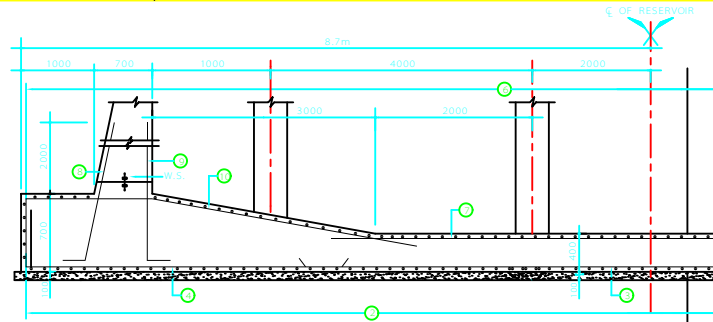
HALF - BURIED 1000M³ REINFORCED CONCRETE RESERVOIR (TYP.) PLANS AND SECTIONS

DATE	DRAWING No.	SHEET	REV.
	IPS-D-CE-411	1	2

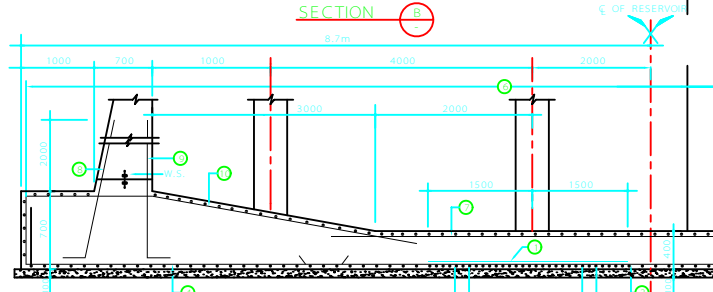
NOT TO SCALE



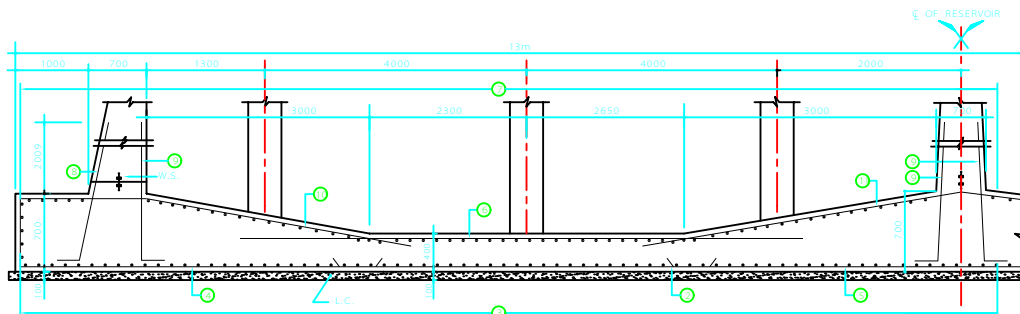
BOTTOM SLAB
REINFORCEMENT PLAN



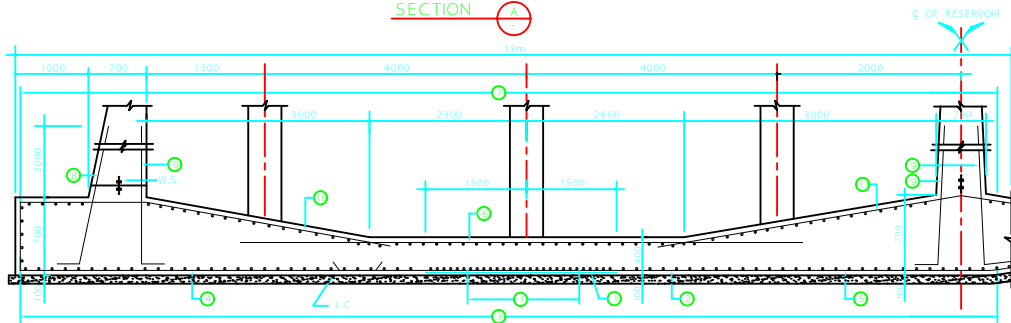
SECTION B-B1



SECTION B1-B



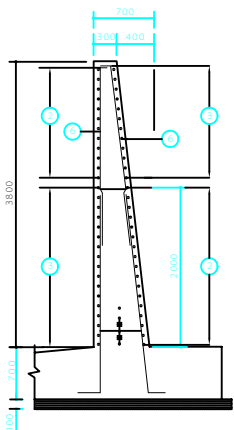
SECTION A-A1



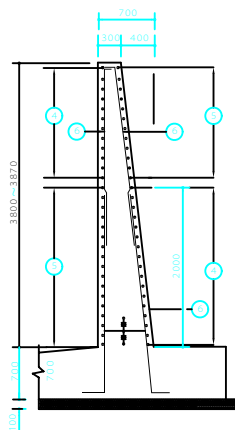
SECTION A1-A

NO.	DESCRIPTION	DATE
1		
2		
3		
IRANIAN PETROLEUM STANDARDS		
NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION		
HALF - BURIED 1000m ³ REINFORCED CONCRETE RESERVOIR (TYP.) REINFORCEMENT PLAN & SECTION		
DATE	DRAWING No.	SHEET
	IPS-D-CE-411	2 / 2

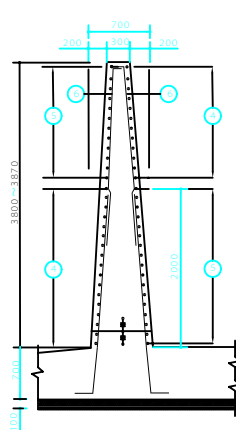
NOT TO SCALE



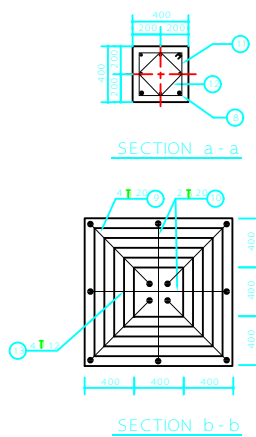
SECTION 41



SECTION 42

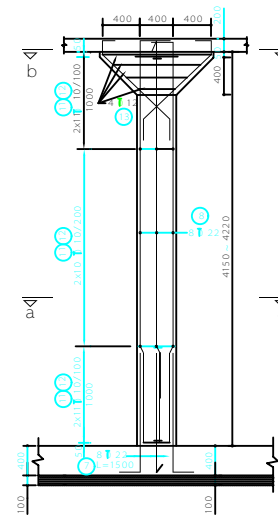


SECTION 43

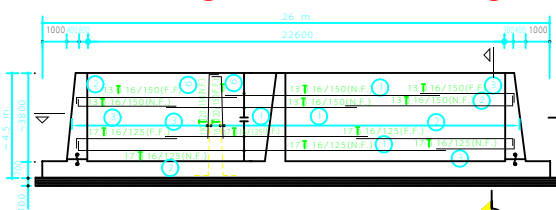


SECTION a-a

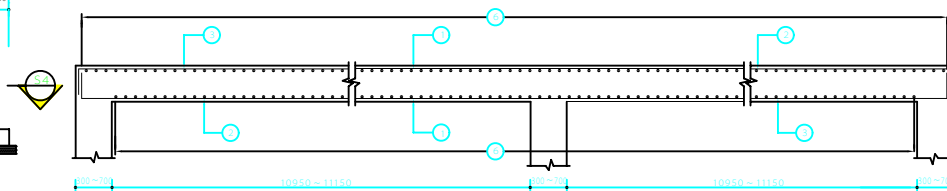
SECTION b-b



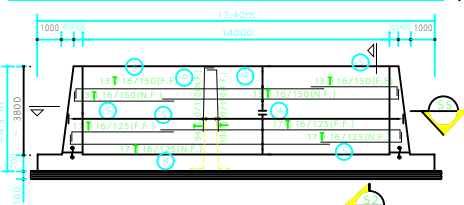
COLUMN C-1
(No. = 24)



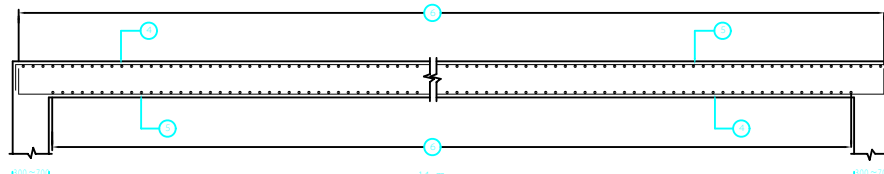
SECTIONAL REINFORCEMENT VIEW FOR WALL 1



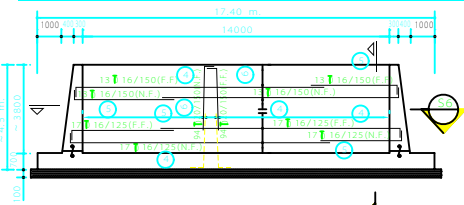
SECTION 54



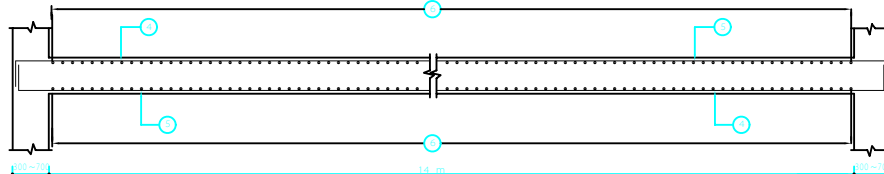
SECTIONAL REINFORCEMENT VIEW FOR WALL 2



SECTION 55



SECTIONAL REINFORCEMENT VIEW FOR WALL 3



SECTION 56

NOT TO SCALE

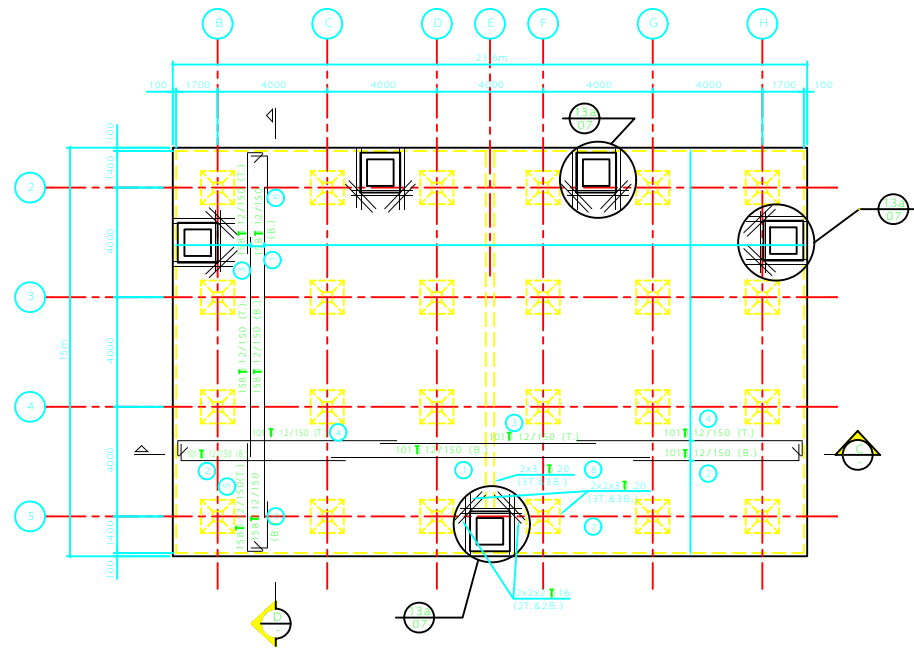
DATE	DESCRIPTION	DATE

IRANIAN PETROLEUM STANDARDS

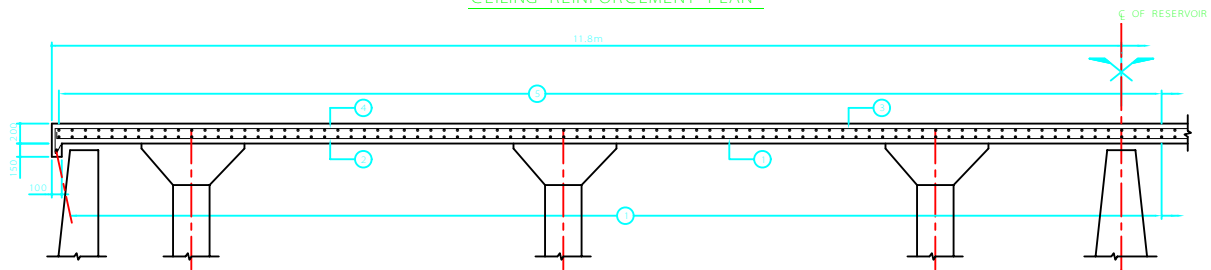
NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION

HALF-BURIED 1000 M³ REINFORCED CONCRETE RESERVOIR (TYP.)
SECTIONAL VIEWS & SECTIONS

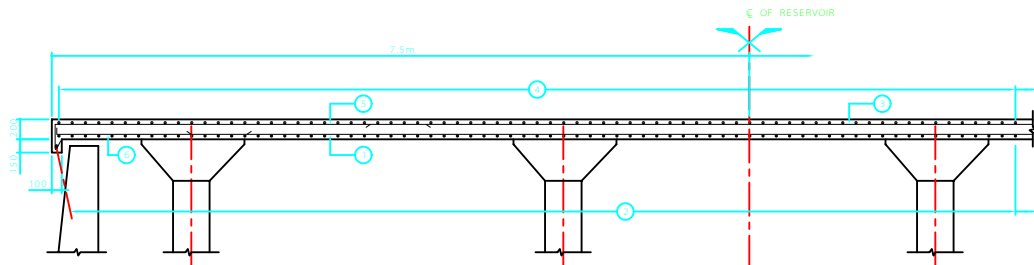
DATE	DRAWING No.	SHEET	REV.
	IPS-D-CE-411	3	



CEILING REINFORCEMENT PLAN




SECTION C-C



SECTION D-D

NOT TO SCALE

NO.	DESCRIPTION	DATE

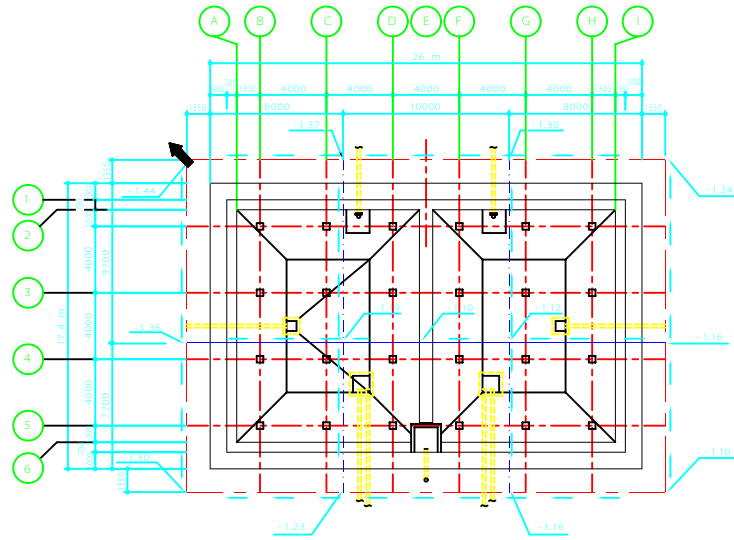
IRANIAN PETROLEUM STANDARDS 

NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION

HALF - BURIED 1000 M³ REINFORCED CONCRETE RESERVOIR (TYP.)
CEILING REINFORCEMENT PLAN & SECTIONS

DATE	DRAWING No.	SHEET	REV.

IPS-D-CE-411



DRAINAGE PLAN

No	SHAPE	LENGTH	LENGTH FOR EACH POS. (m)				
			↑10	↑12	↑16	↑20	↑24
1	10	3.40	24				
2	10	2.95	40				
3	10	1.20	32		38.40		
4	10	3.00	24		48.00		
5	10	1.45	360	62.200			
6	10	2.00	280	374.00			
7	10	2.20	14	70.80			
8	10	1.70	22	37.40			
9	10	0.80	22	17.60			
10	10	3.90	7	27.30			
11	10	2.25	21	30.25			
12	10	0.50	48	144.00			
13	10	2.80	112	353.60			
14	10	2.00	56	112.00			
15	10	2.40	16	38.40			
16	10	1.40	64	89.60			
SUM			326.40	1086.00	1027.11		
(No./m)			0.617	0.888	1.18		
(kg)			78	973	1623		

G.T.=2674kg

BAR BENDING SCHEDULE FOR ACCESSORY ITEMS

No	SHAPE	LENGTH	LENGTH FOR EACH POS. (m)				
			↑10	↑12	↑16	↑20	↑24
1	10	0.00	144				
2	10	0.00	234		104.00		
3	10	0.00	174		146.00		
4	10	0.00	182		190.00		
5	10	7.00	117		819.00		
6	10	0.00	234		1634.00		
7	10	0.00	174		1346.00		
8	10	0.00	510		1590.00		
9	10	0.00	670		2028.00		
10	10	0.47	342		1187.21		
11	10	0.00	117		116.00		
SUM			237.00	2292.00	5863.00	1027.11	
(No./m)			0.617	1.21	1.18	1.18	
(kg)			267	6407	9423	21824	

G.T.=37921kg

BAR BENDING SCHEDULE FOR BOTTOM SLAB

No	SHAPE	LENGTH	LENGTH FOR EACH POS. (m)				
			↑10	↑12	↑16	↑20	↑24
1	10	10.00	120				
2	10	10.00	120				
3	16	6.00	120				
4	16	12.00	180				
5	16	4.50	180				
6	20	3.00	1200	1618.00			
7	22	1.51	182		297.60		
8	22	4.50	2448	888.54			
9	22	2.00	80	220.84			
10	22	2.60	40	127.68			
11	10	1.60	740	1228.80			
12	16	1.20	740	927.60			
13	12	3.40	2414	326.40			
SUM			2150.40	130.00	2090.00	2446.21	176.16
(No./m)			0.617	0.888	1.18	1.21	1.98
(kg)			1327	290	9620	9747	1365

G.T.=24551kg

BAR BENDING SCHEDULE FOR WALLS & COLUMN

No	SHAPE	LENGTH	LENGTH FOR EACH POS. (m)		
			↑10	↑16	↑20
1	10	12.00	219		
2	10	6.70	292		
3	10	8.00	249		
4	10	9.00	202		
5	10	4.50	316		
6	10	2.10	316		
7	20	1.00	60		180.00
8	20	3.00	30		90.00
9	10	3.00	40		80.00
SUM			1042.00	82.00	170.00
(No./m)			0.888	1.18	1.42
(kg)			9263	126	687

G.T.=10075kg

BAR BENDING SCHEDULE FOR CEILING

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

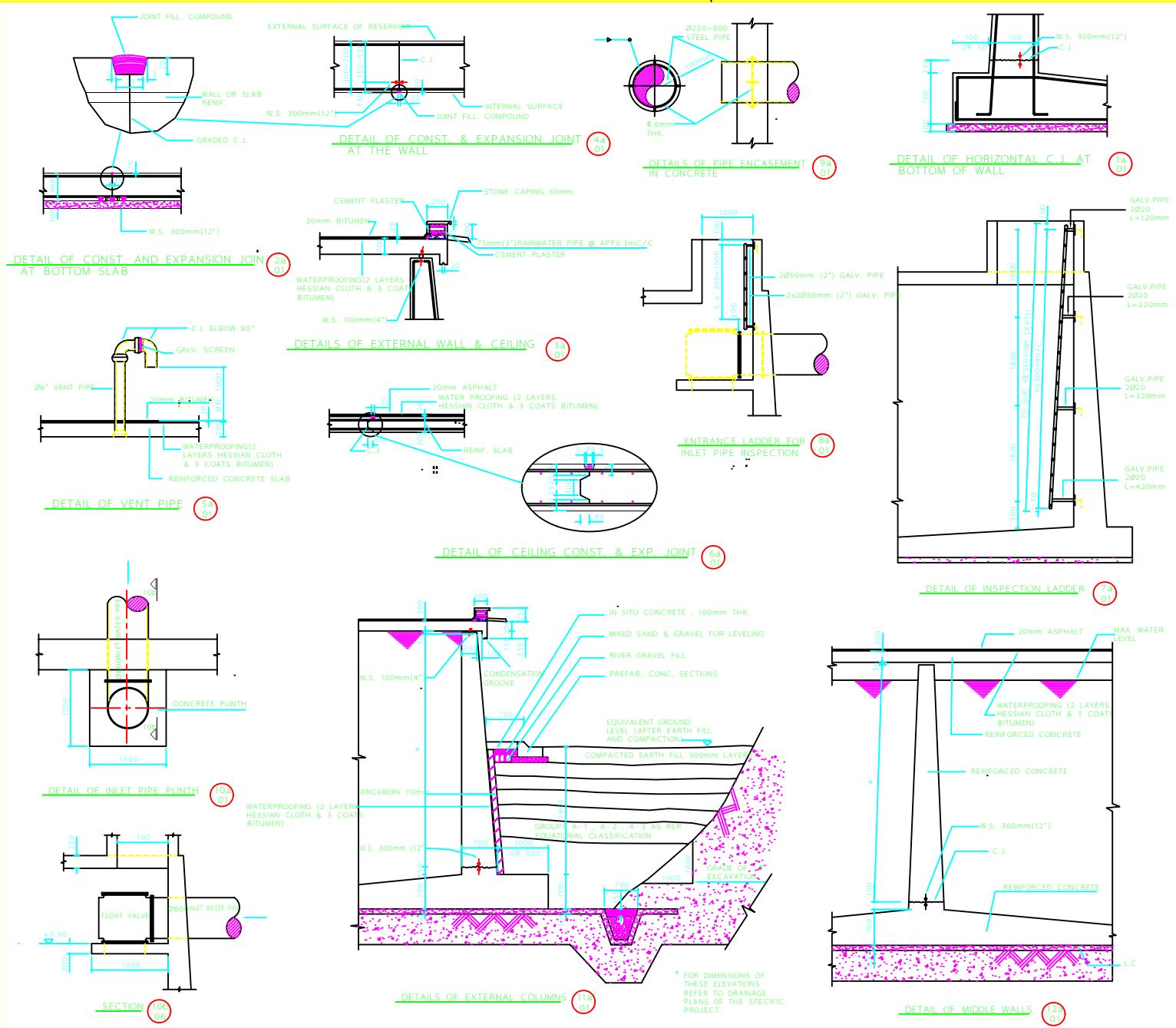
IRANIAN PETROLEUM STANDARDS

NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION

HALF - BURIED 1000 M³ REINFORCED CONCRETE RESERVOIR (TYP.)
DRAINAGE PLAN AND
BAR BENDING SCHEDULES

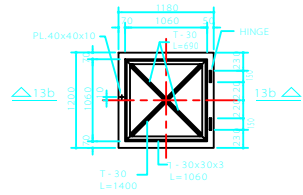
DATE	DRAWING No.	SHEET	REV.
	IPS-D-CE-411	5	

NOT TO SCALE

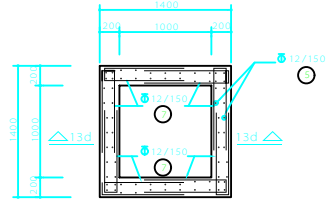


NO.	DESCRIPTION	DATE
IRANIAN PETROLEUM STANDARDS <small>NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION</small>		
HALF-BURIED 1000 M³ REINFORCED CONCRETE RESERVOIR (TYP.) DETAILS		
DATE	DRAWING NO.	SHEET NO.
	(PS-D-CE-41)	2

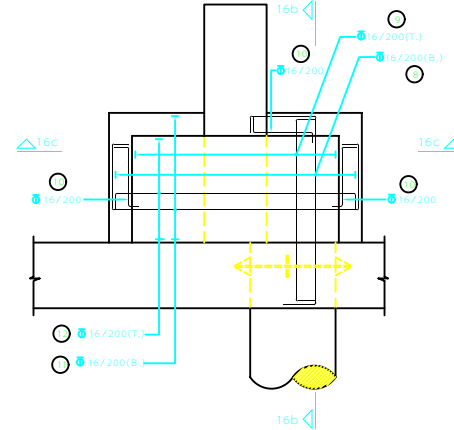
* FOR DIMENSIONS OF THESE ELEVATIONS REFER TO DRAINAGE PLANS OF THE SPECIFIC PROJECT.



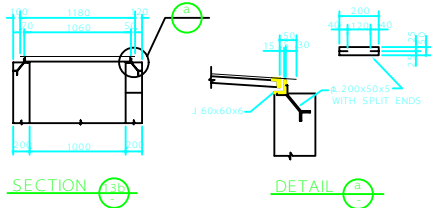
DETAIL OF INLET MANHOLE COVER (FOR REINFORCEMENT PLAN SEE DETAIL 13c)



REINFORCEMENT PLAN FOR INSPECTION MANHOLE

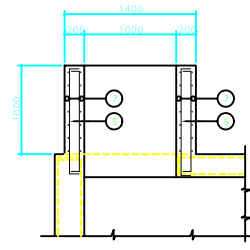


REINFORCEMENT DETAILS FOR OVER FLOW PIPE PIT

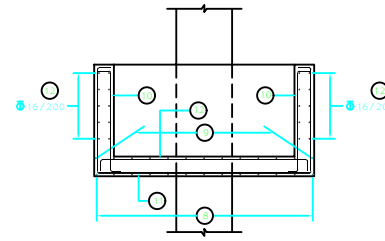


SECTION 13b

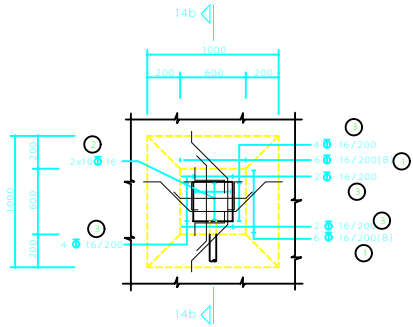
DETAIL a



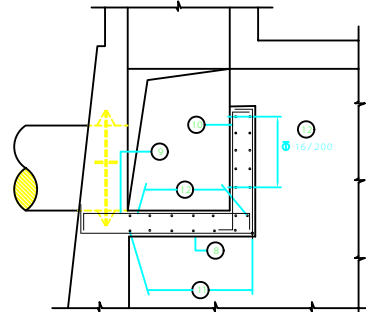
SECTION 13d



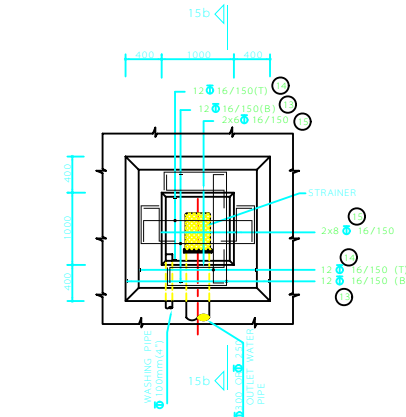
SECTION 16c



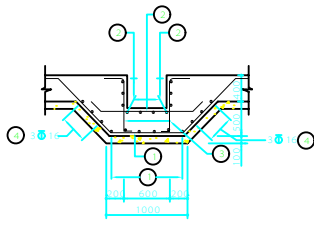
REINFORCEMENT PLAN FOR CLEANOUT PIT



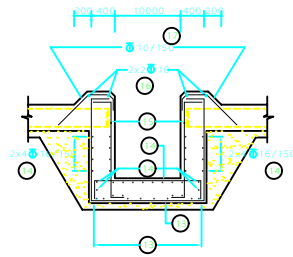
SECTION 16b



DETAIL OF REINFORCEMENT FOR OUTLET MANHOLE



SECTION 13c



SECTION 13e

NO.	DESCRIPTION	DATE
1	IRANIAN PETROLEUM STANDARDS	
NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION		
HALF-BURIED 1000M ³ REINFORCED CONCRETE RESERVOIR (TYP.) DETAILS		
DATE	DRAWING NO.	SHEET REV.
	IPS - D - CE - 411	