## REPORT ON THE SURVEY OF THE WATER WORKS

### DUNGUN AND KEMAMAN DISTRICTS MALAYSIA

DRAWINGS

March 1968

OVERSEAS TECHNICAL COOPERATION AGENCY
GOVERNMENT OF JAPAN

# DUNGUN WATER WORKS-DRAWING INDEX

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IAIL OF TRENGGANU, MALAYSIA

PUNGU' WATER SUPPLY PROJECT

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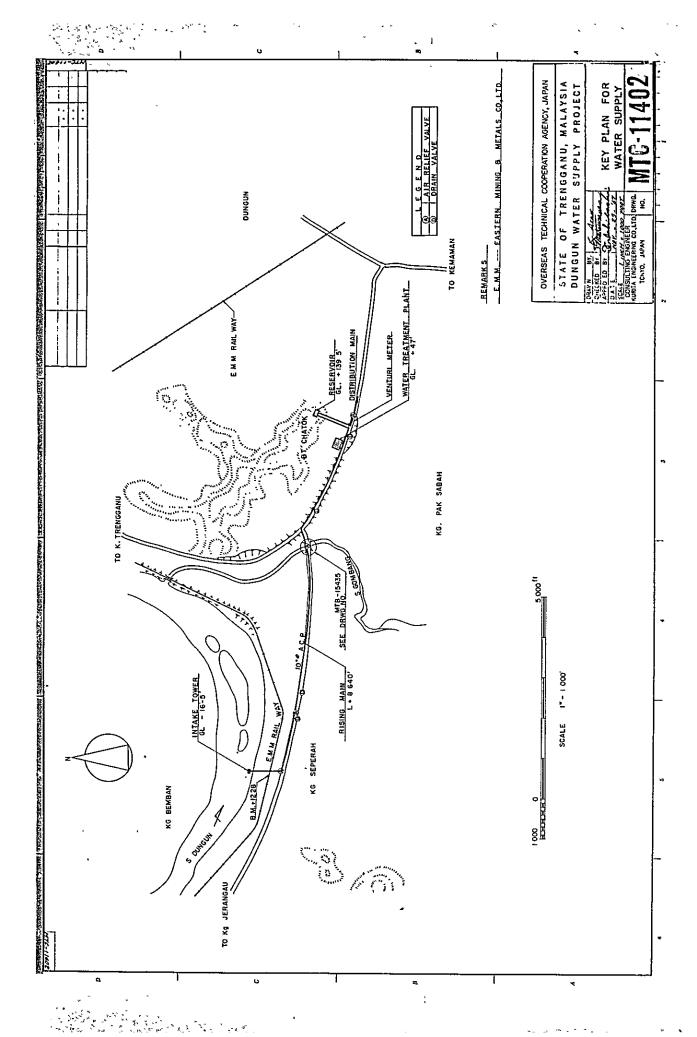
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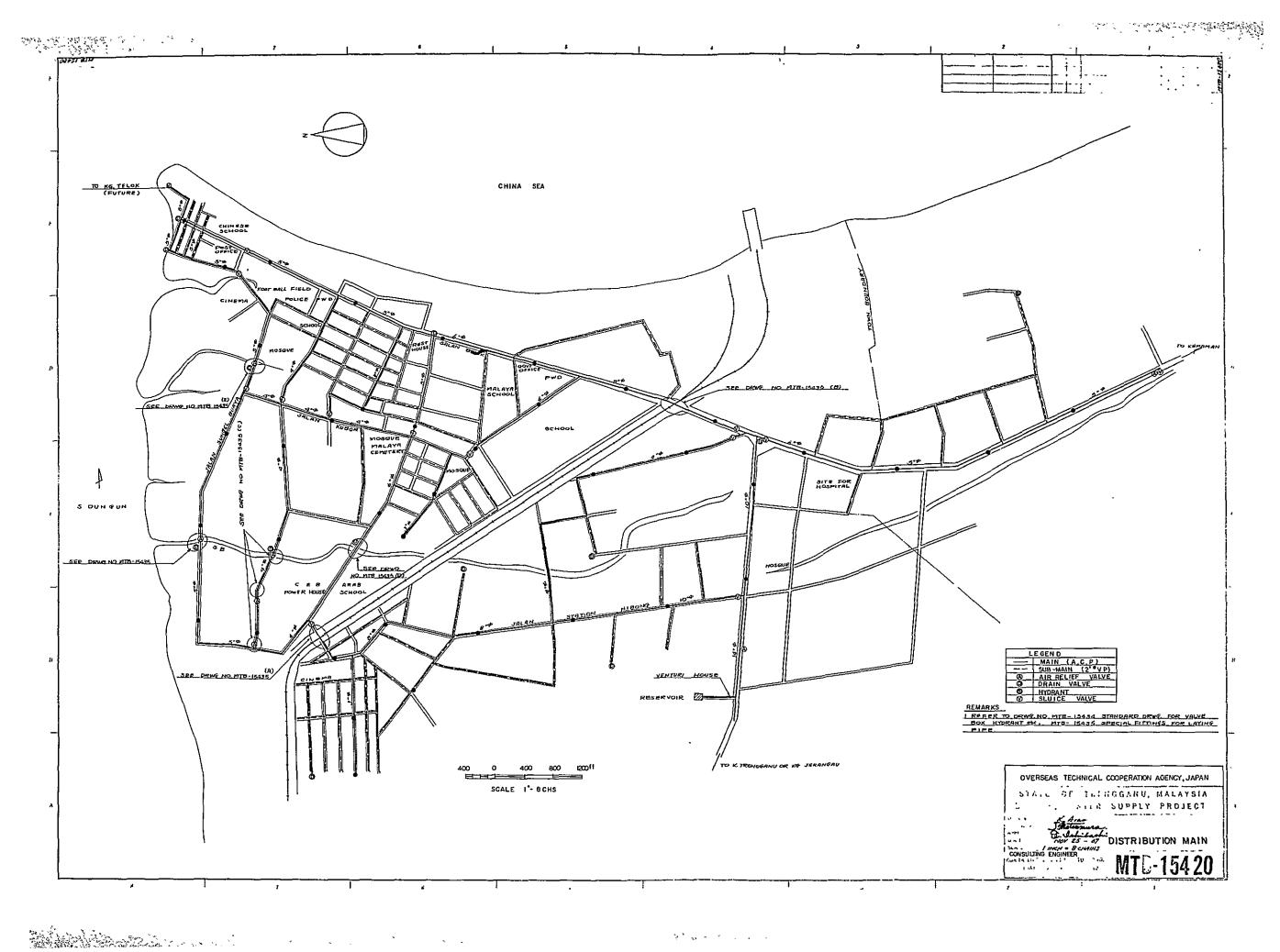
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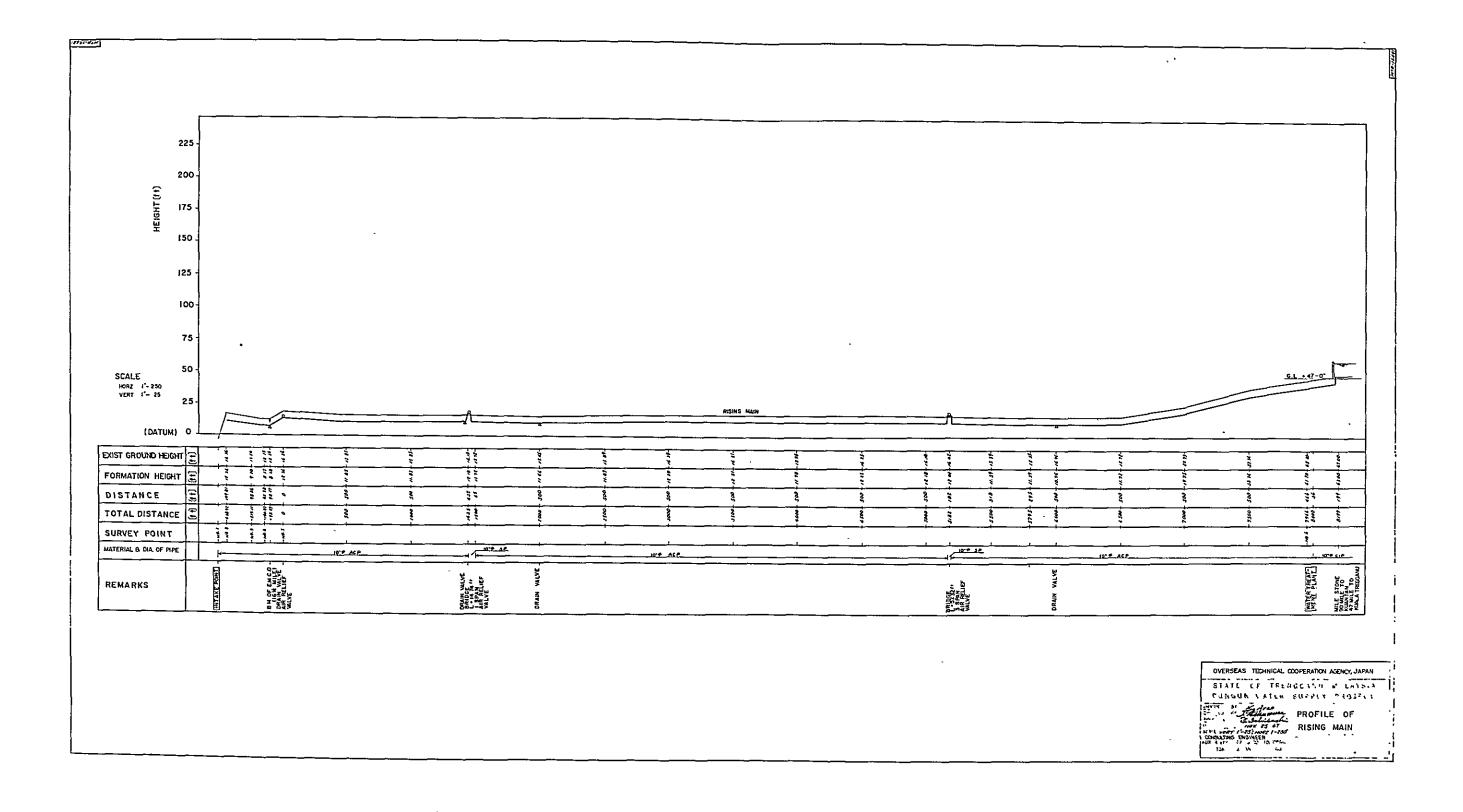
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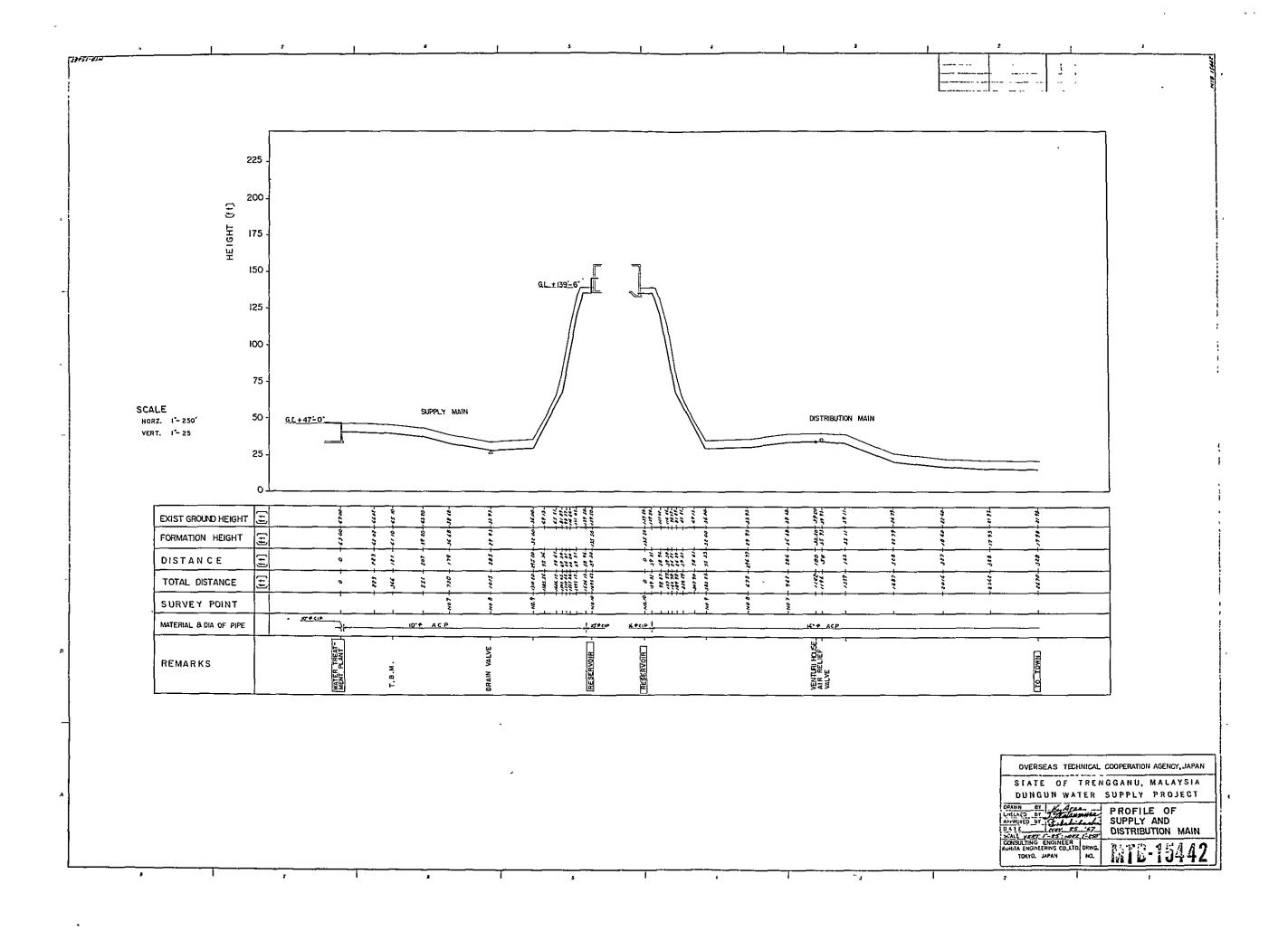
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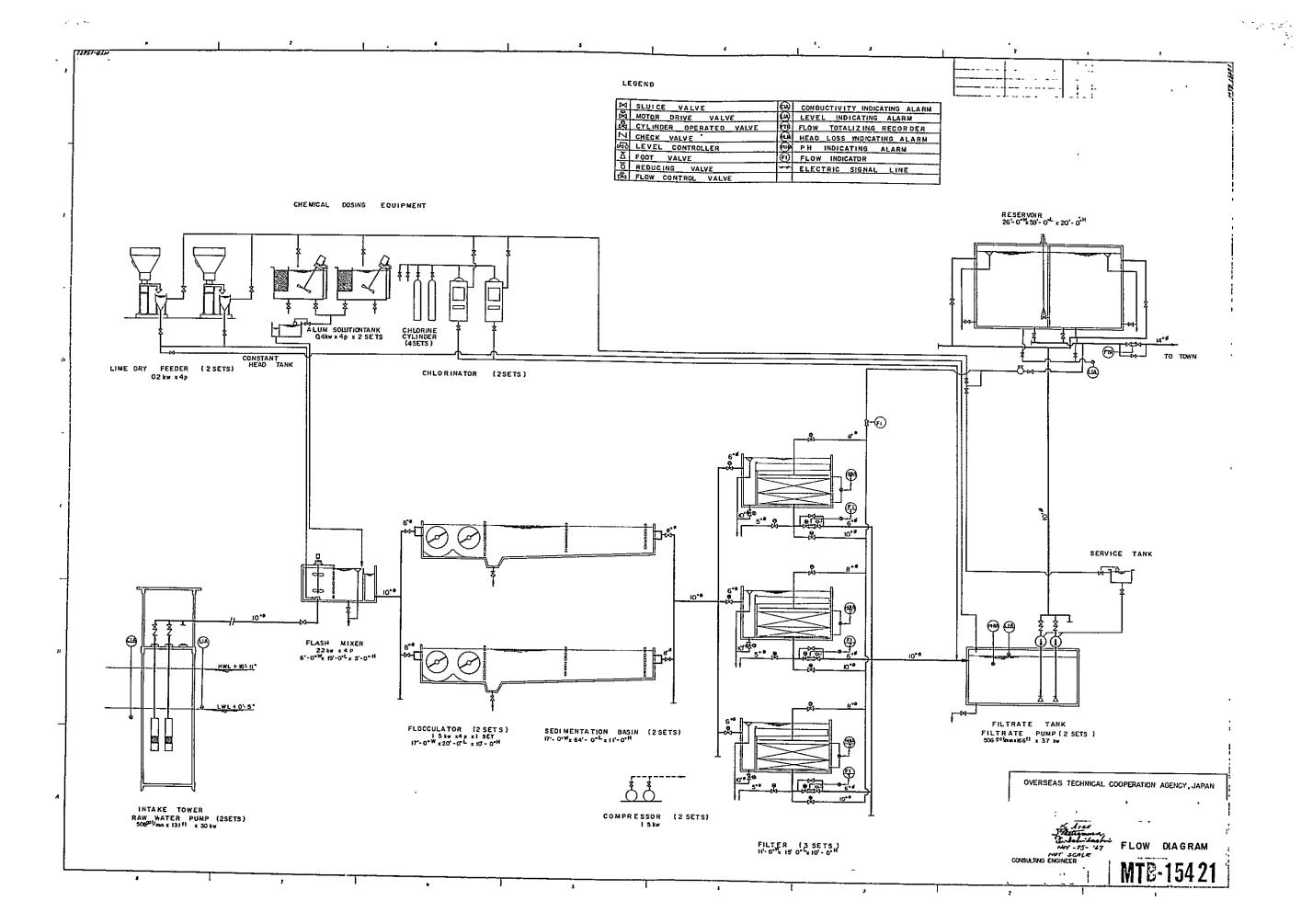


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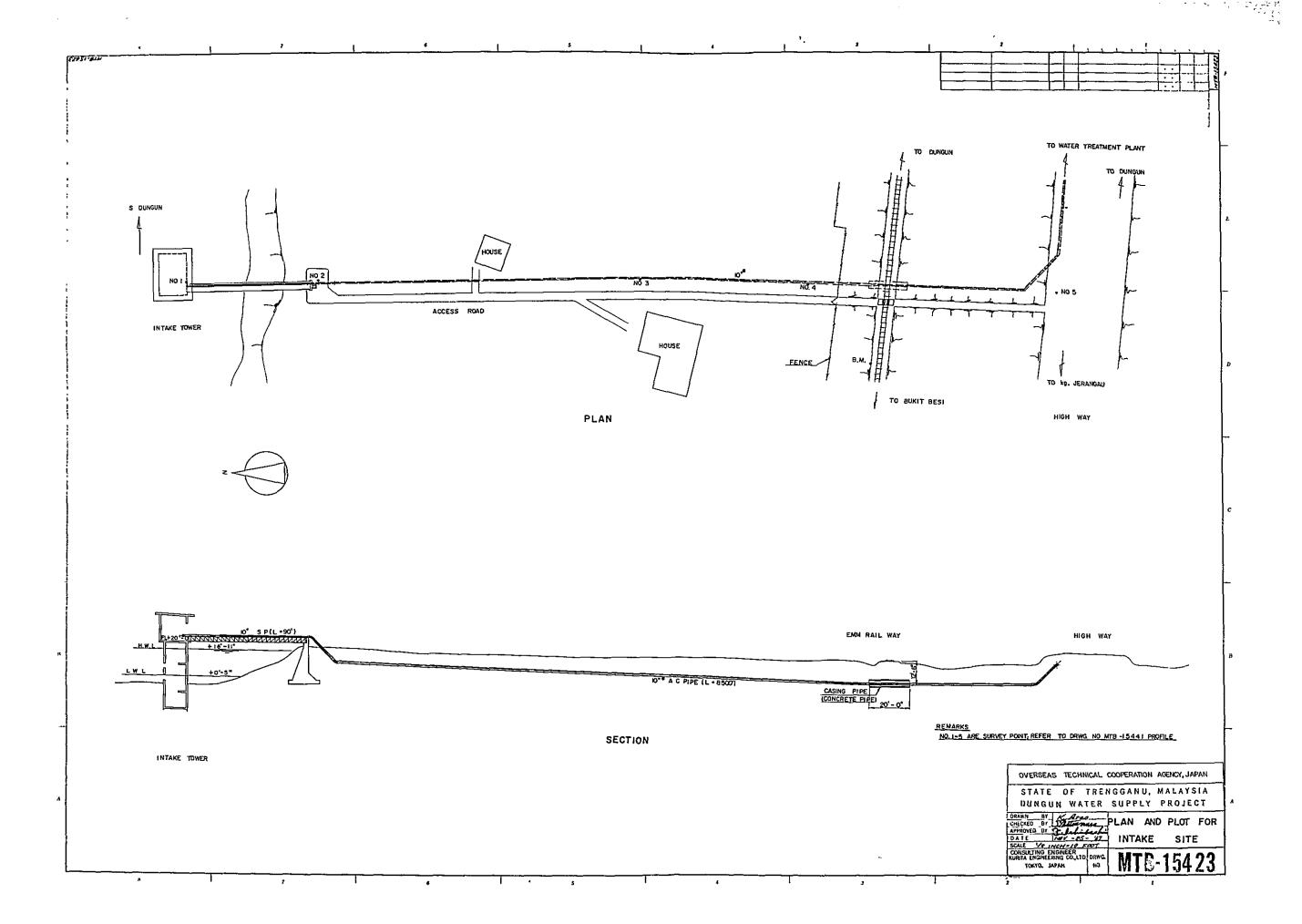


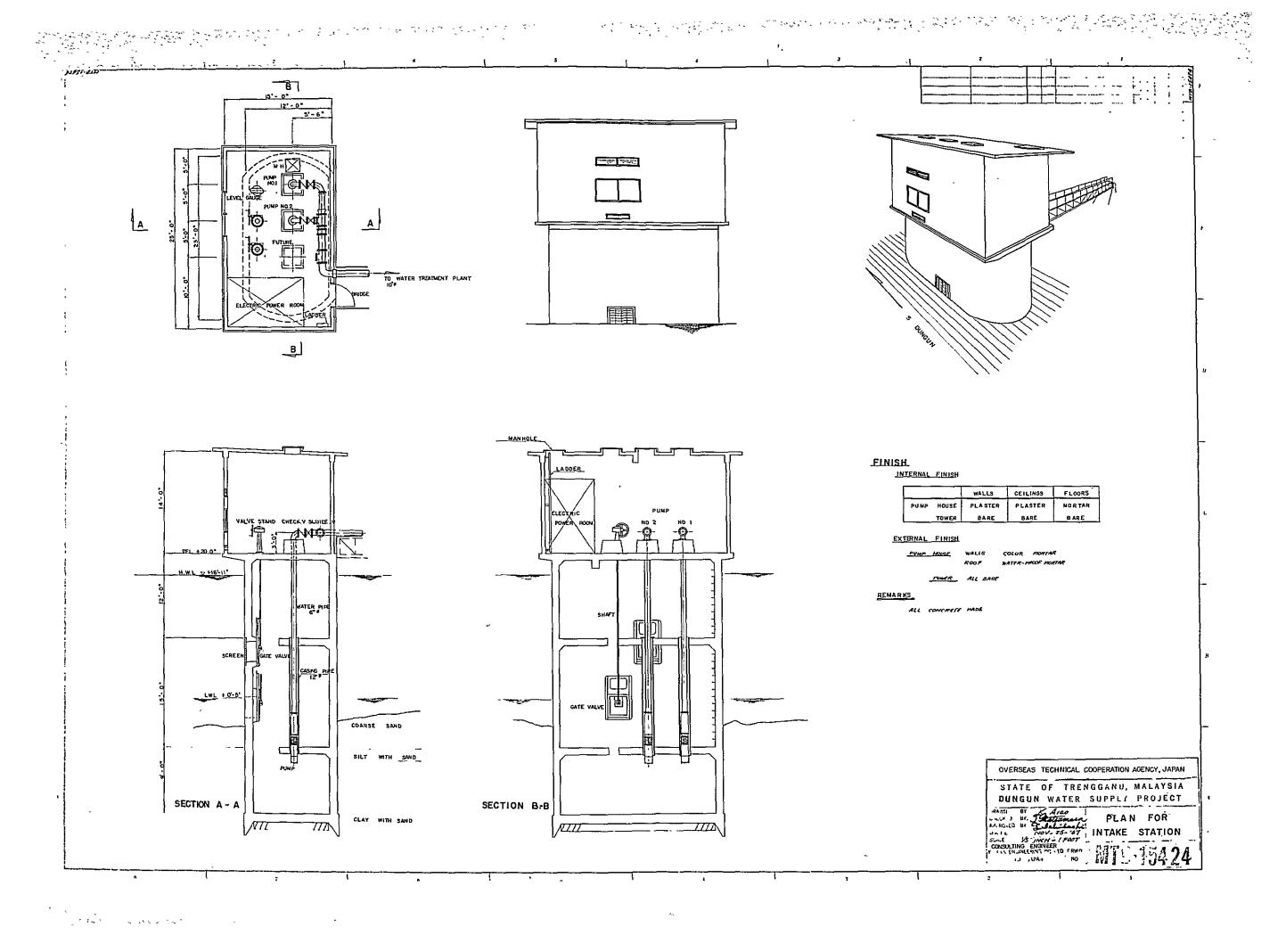
e catherine to a ∇ HWL+154"-0" INTAKE TOWR FLASH MIXER FLOCCULATOR SEDIMENTATION BASIN FILTER FILTRATE TANK RESERVOIR GL +47'-0" ▼<u>+45'+0"</u> HWL +16'-11" DATUM LINE O OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAISIA DUNGUNWATER SUPPLY PROJECT DRAWM BY JAMES AND CHECKED BY JAMES AND CHECKED BY JAMES AND CONTROL OF THE CONTR WATER LEVEL DIAGRAM

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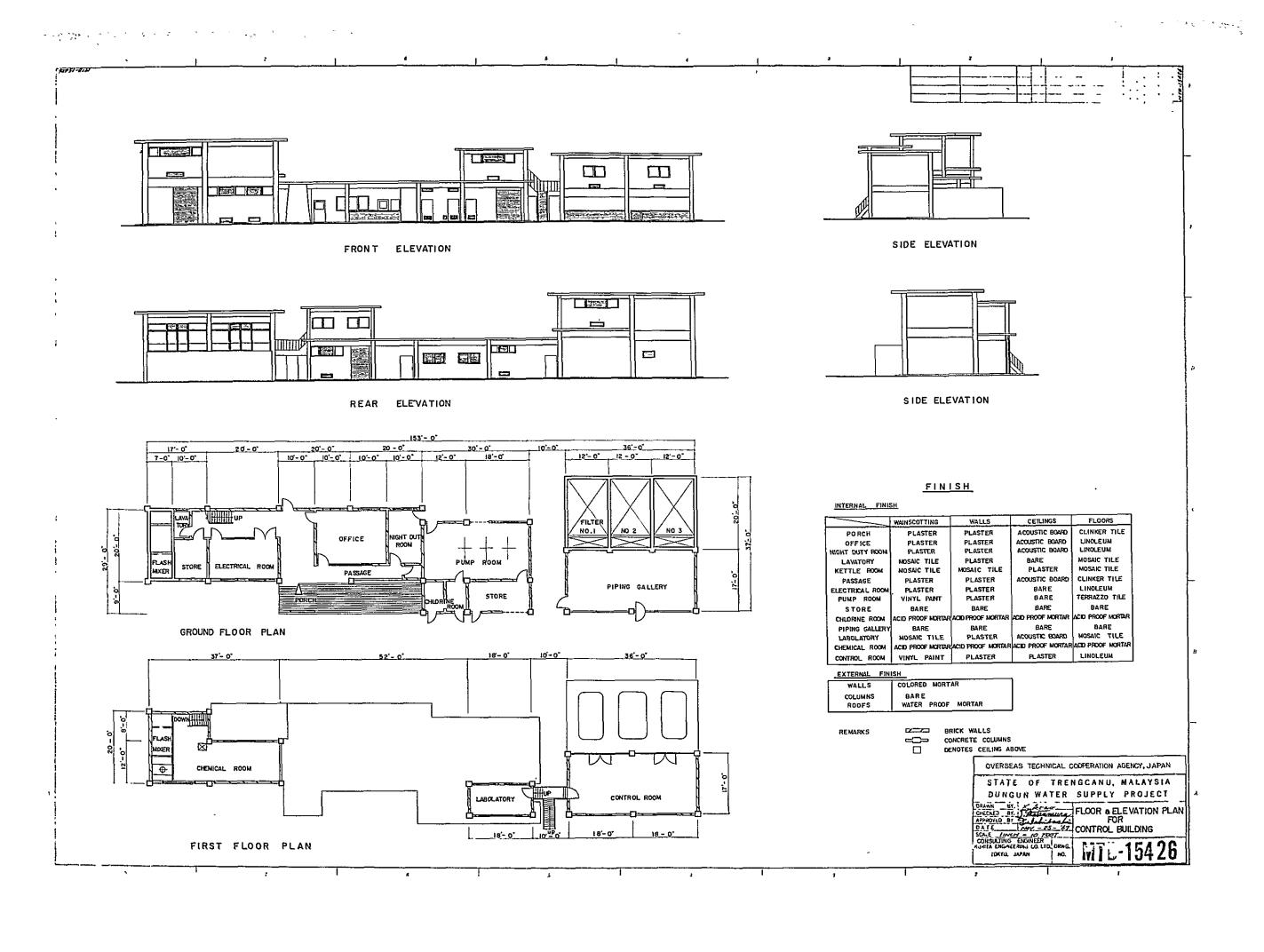
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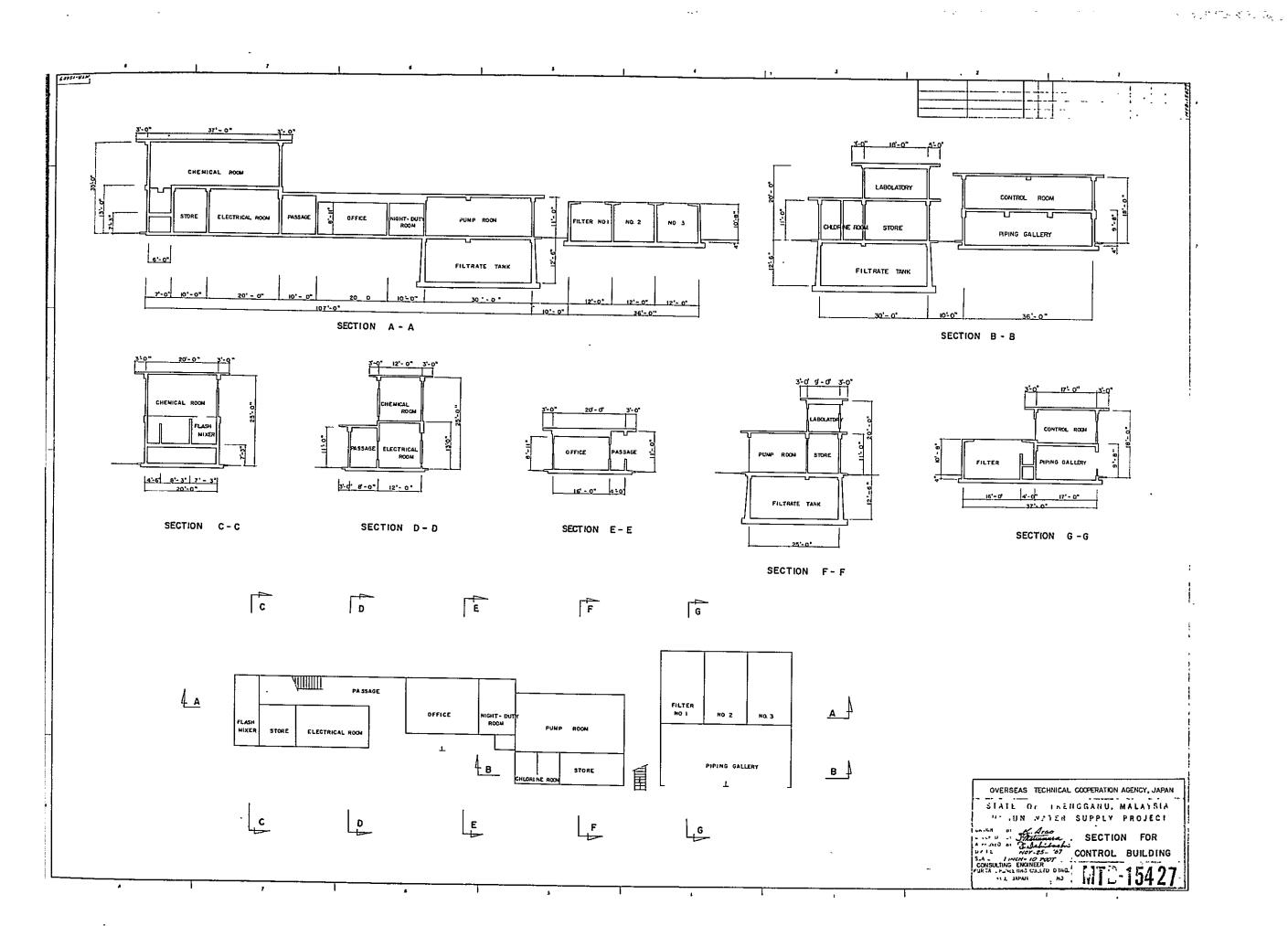


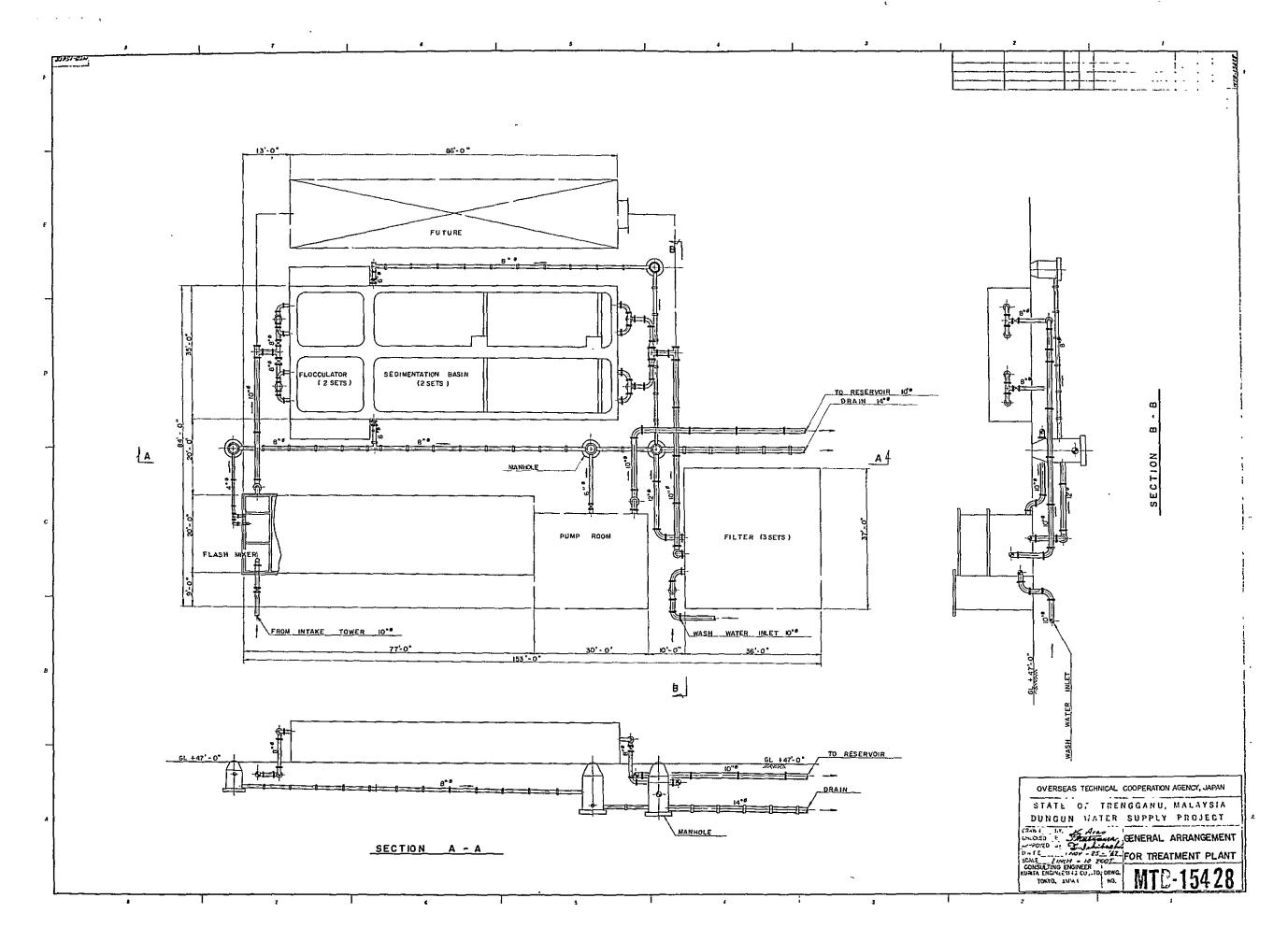


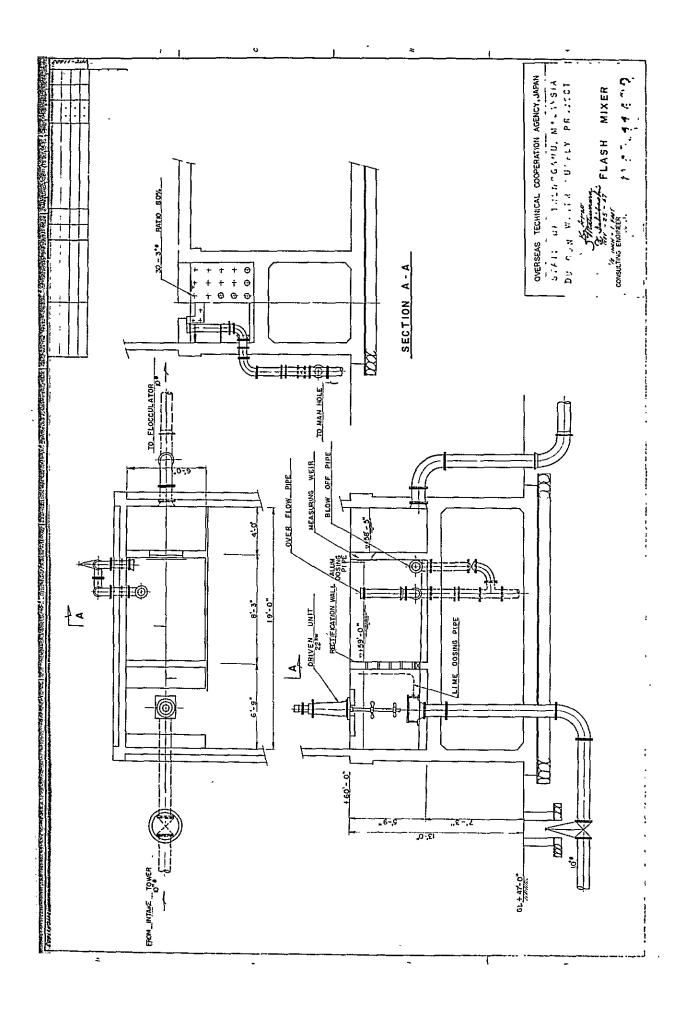
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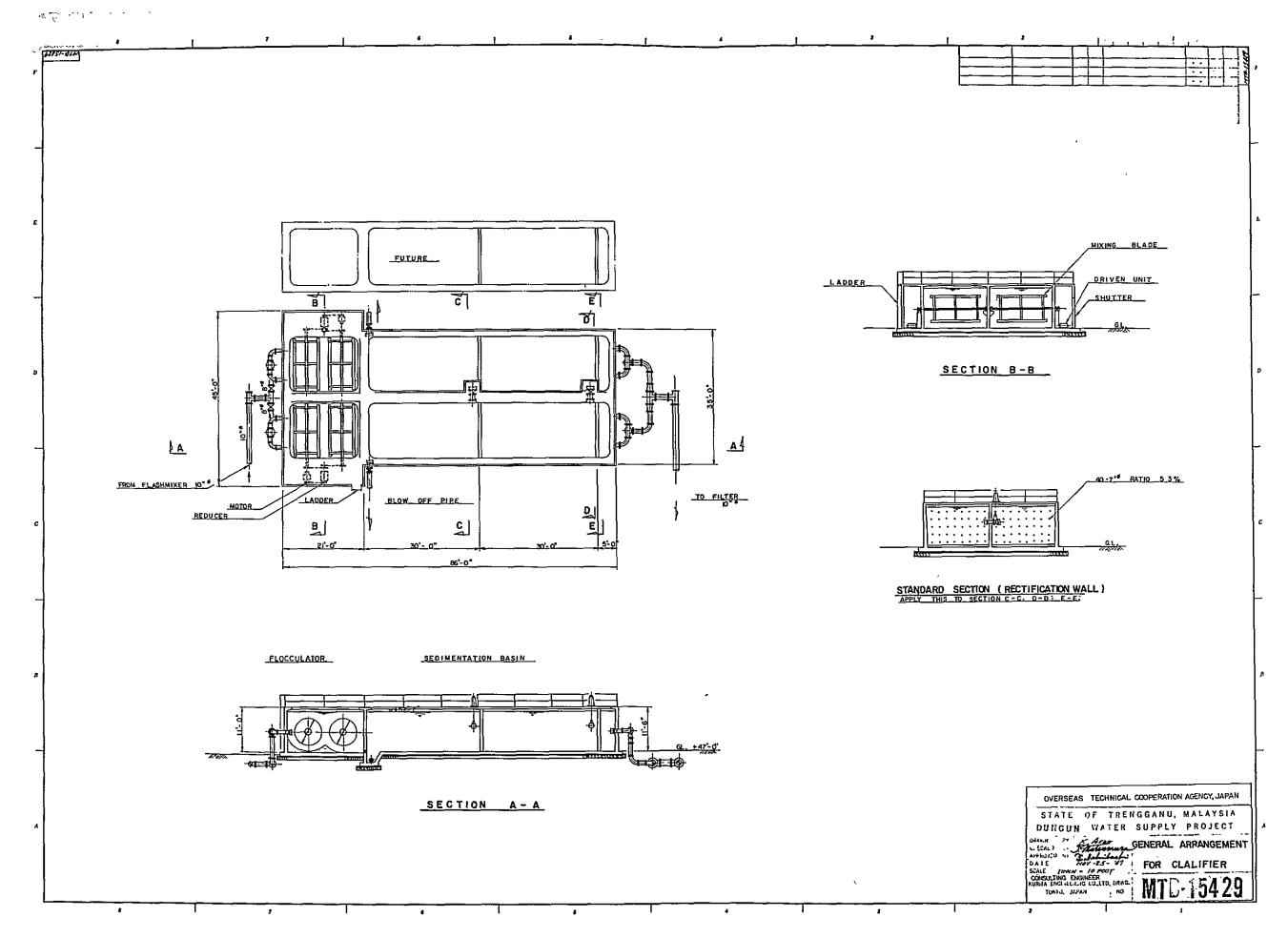
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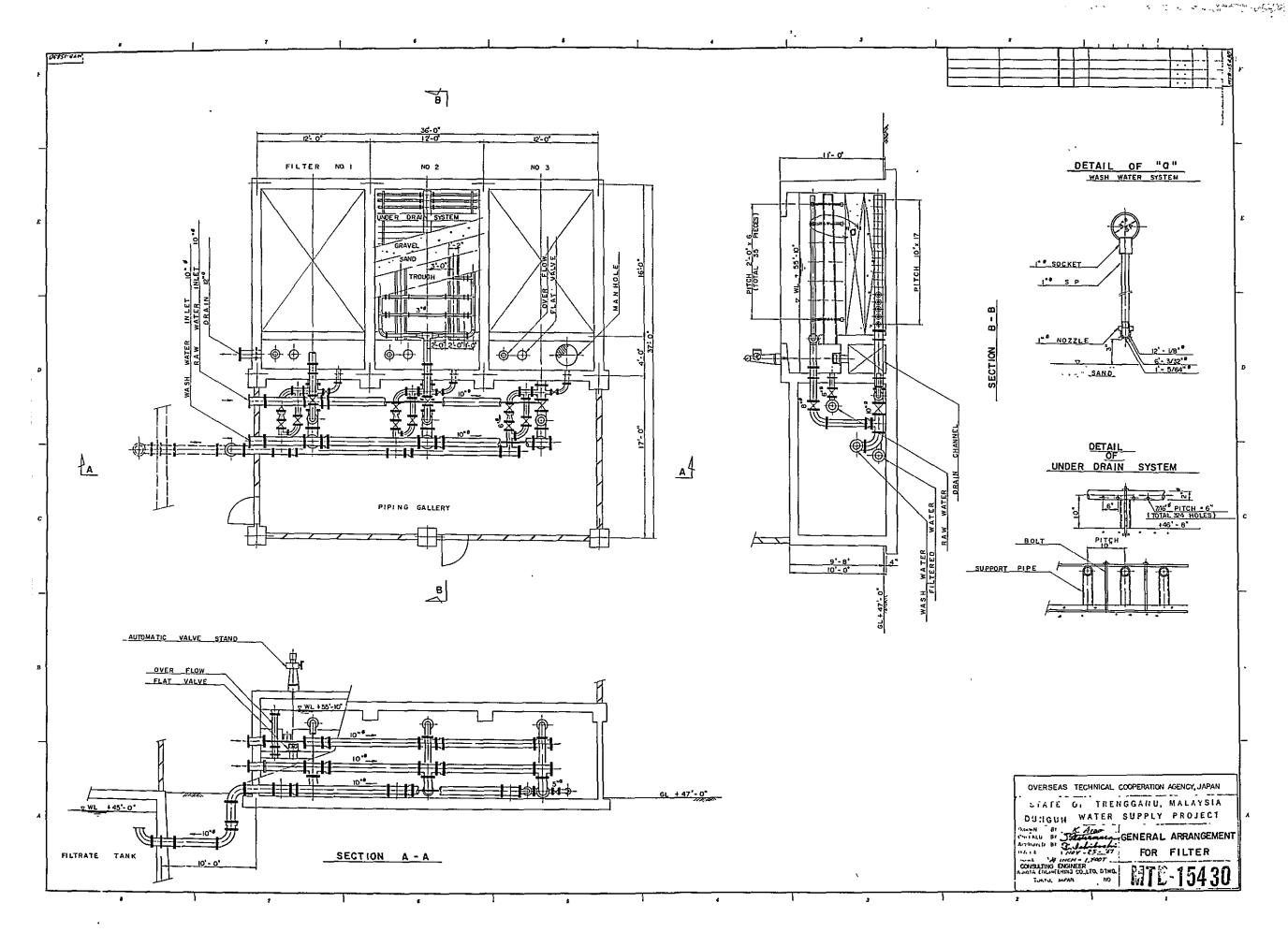








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3. 15. 107

FOR FILTRATE PUMP

CONSULTING ENGINEER

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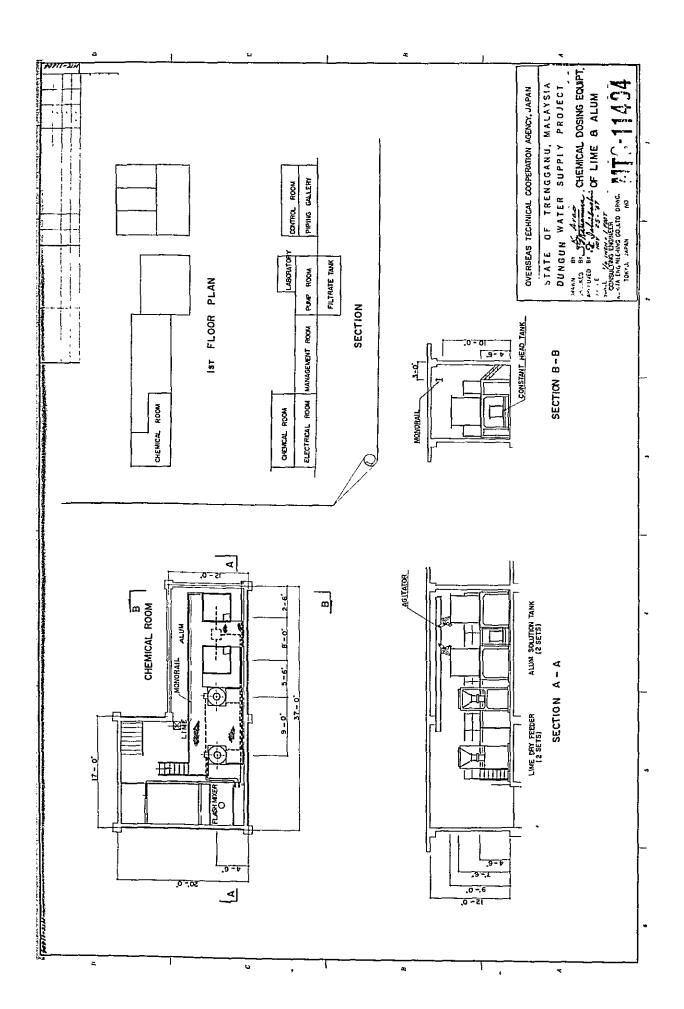
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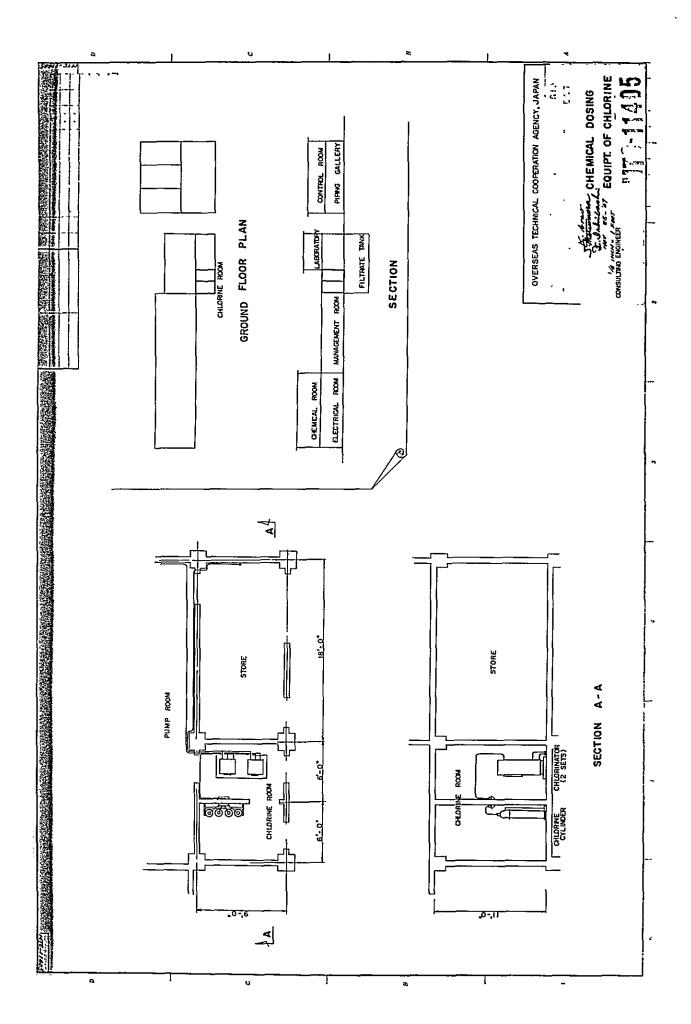
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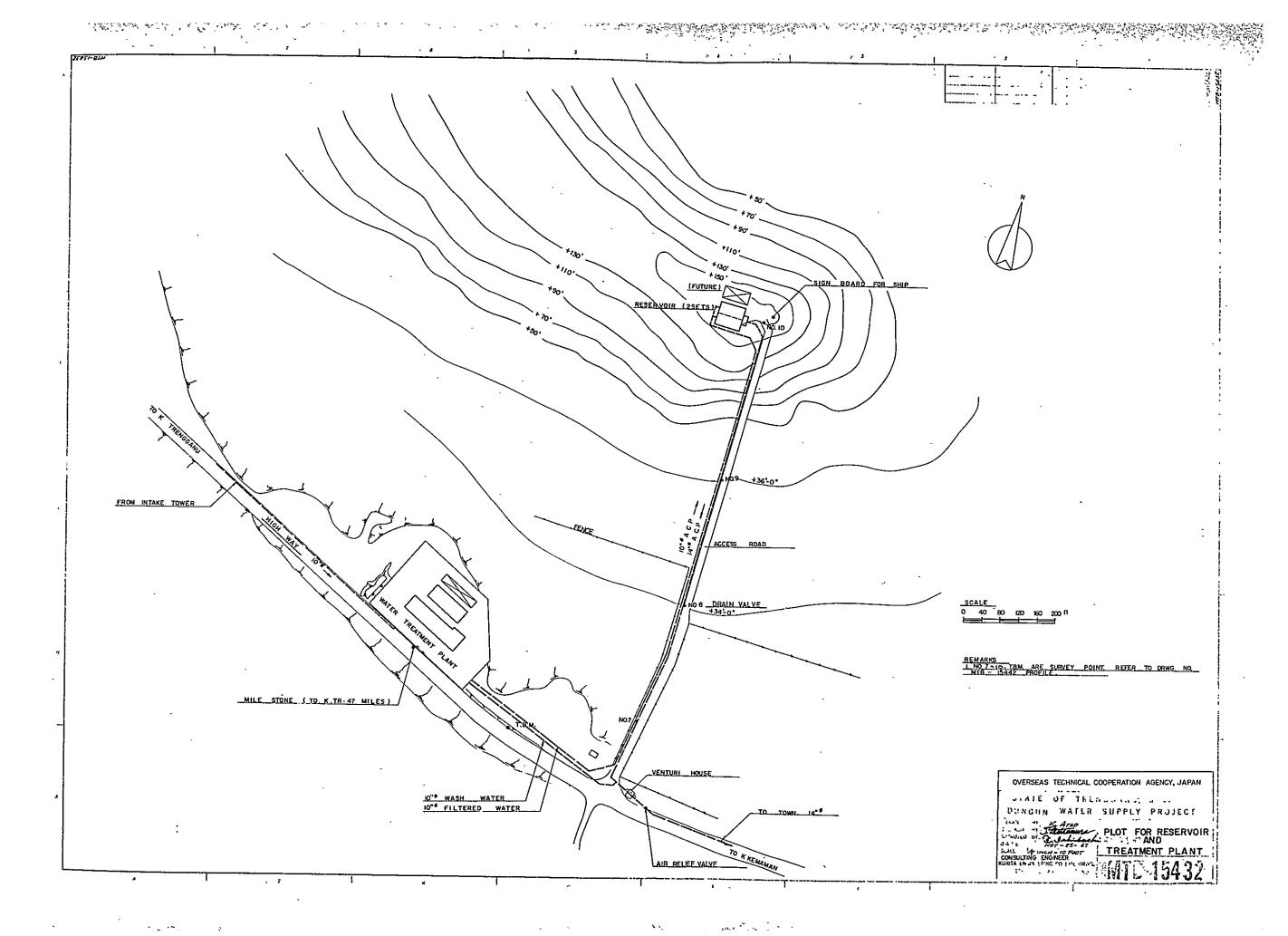
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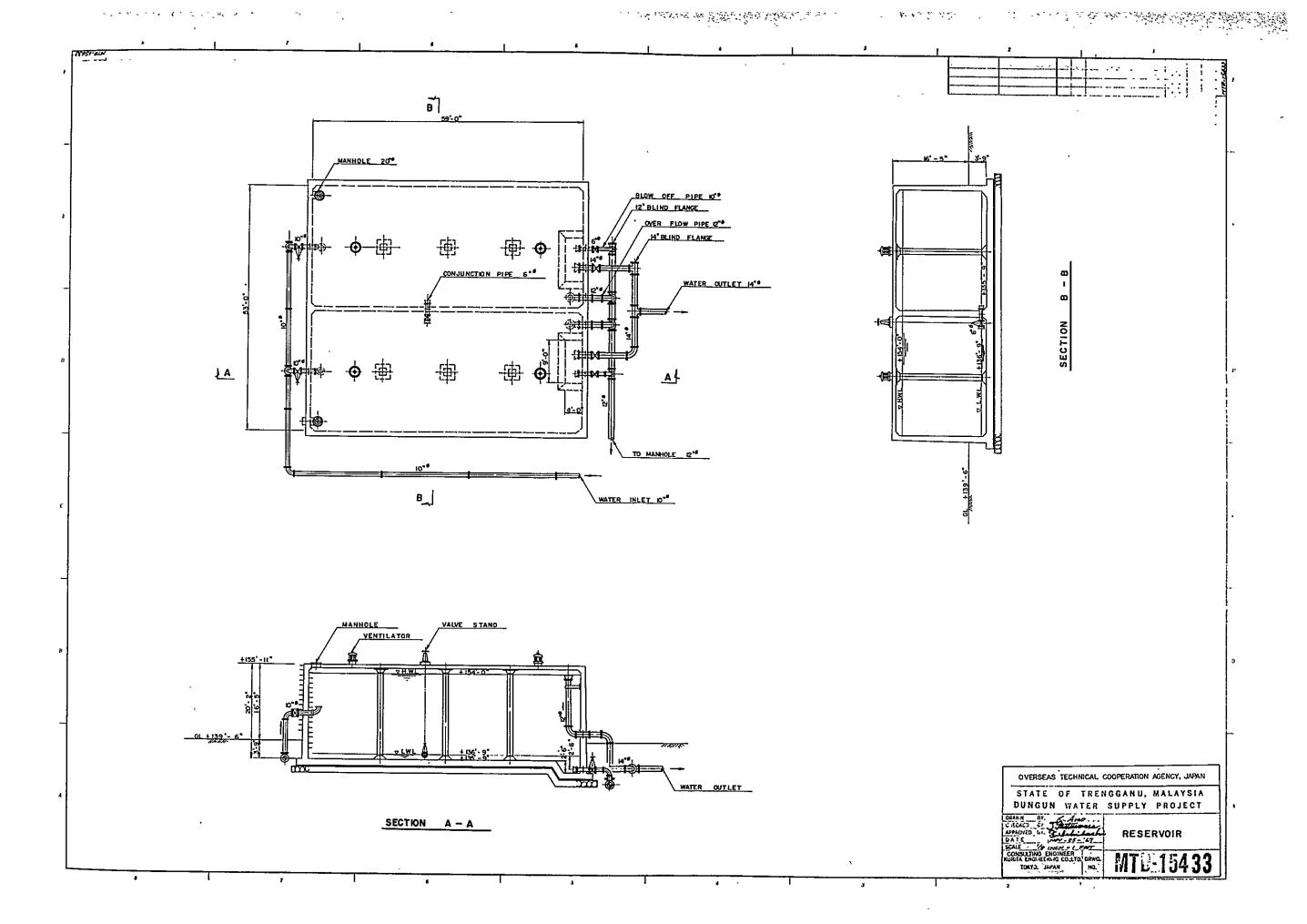
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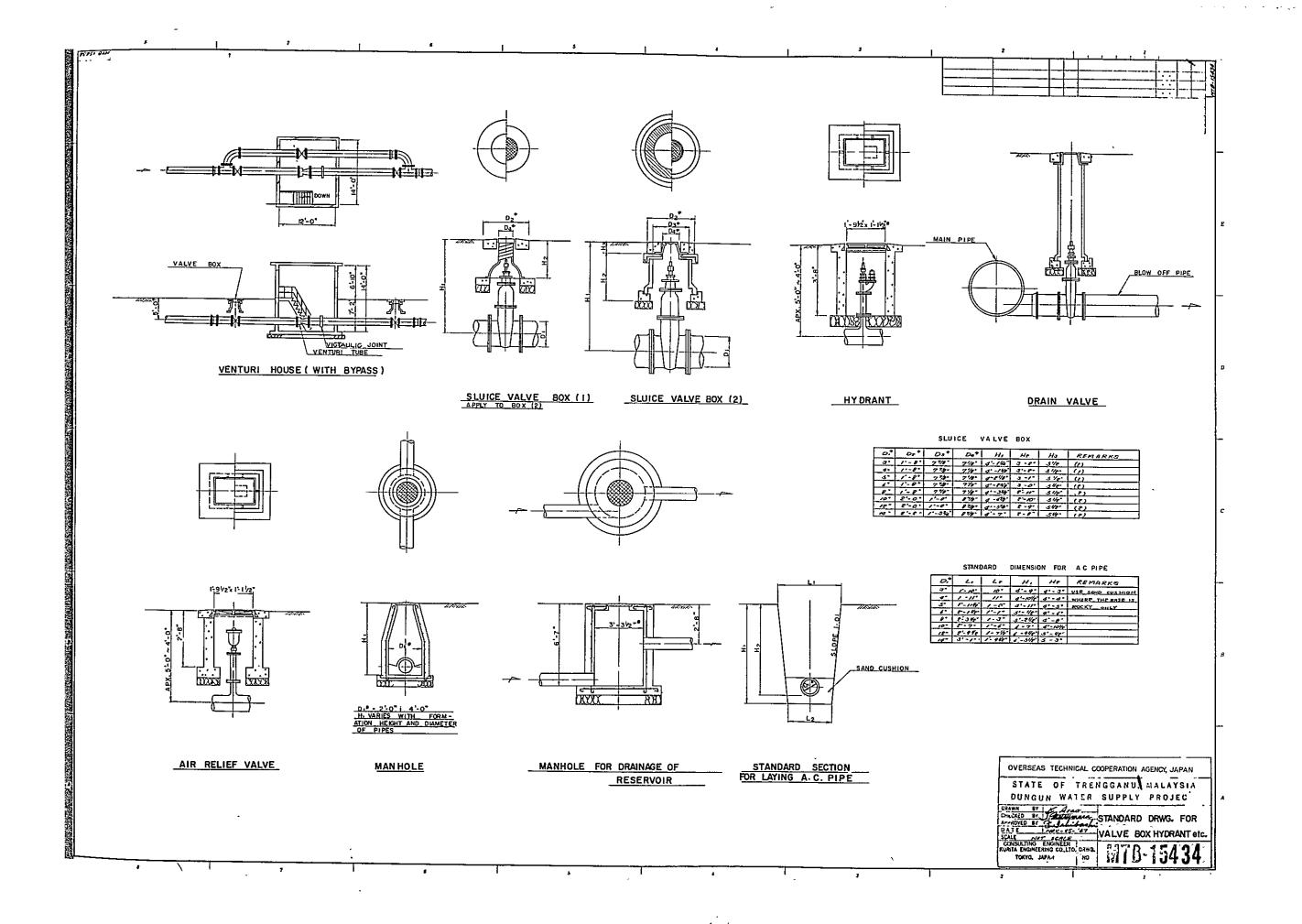
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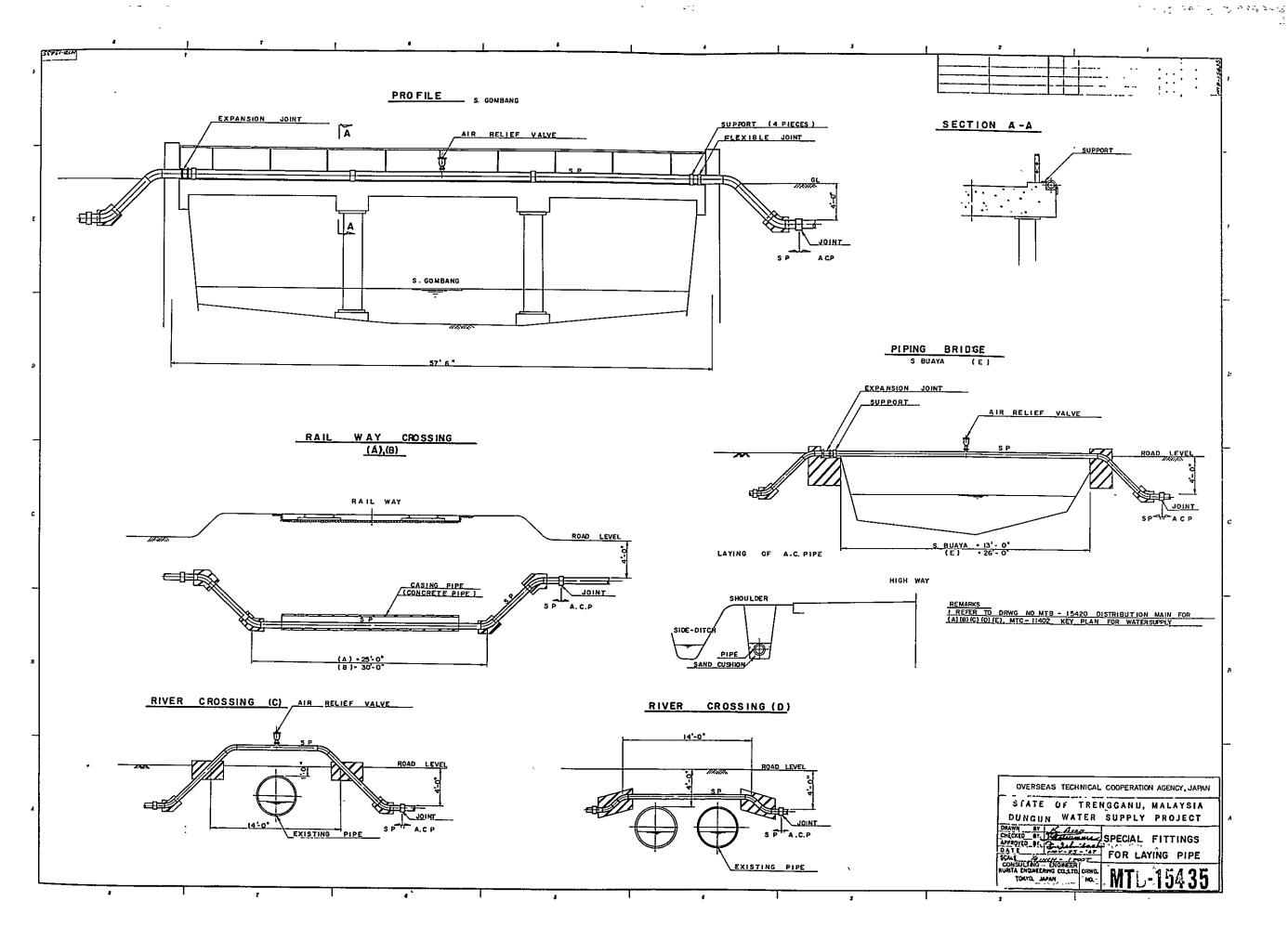




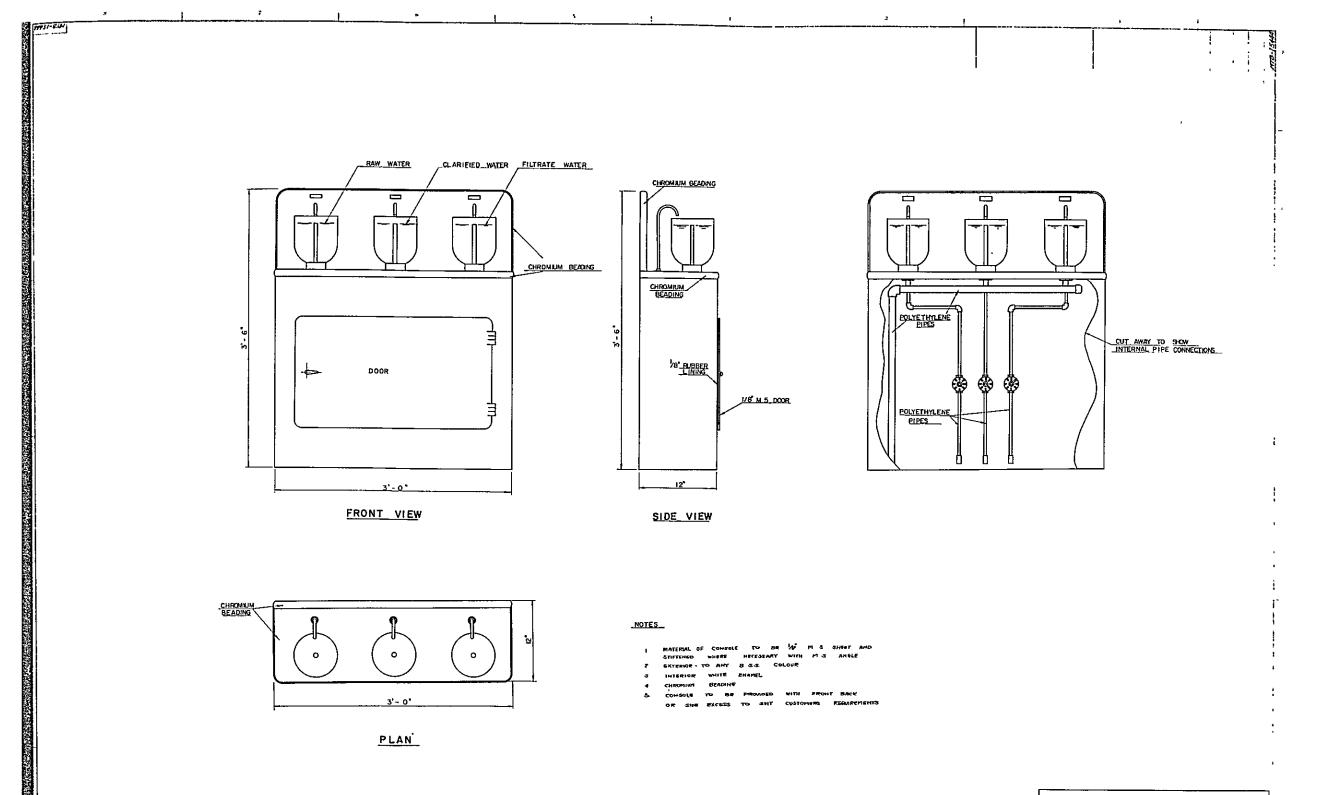




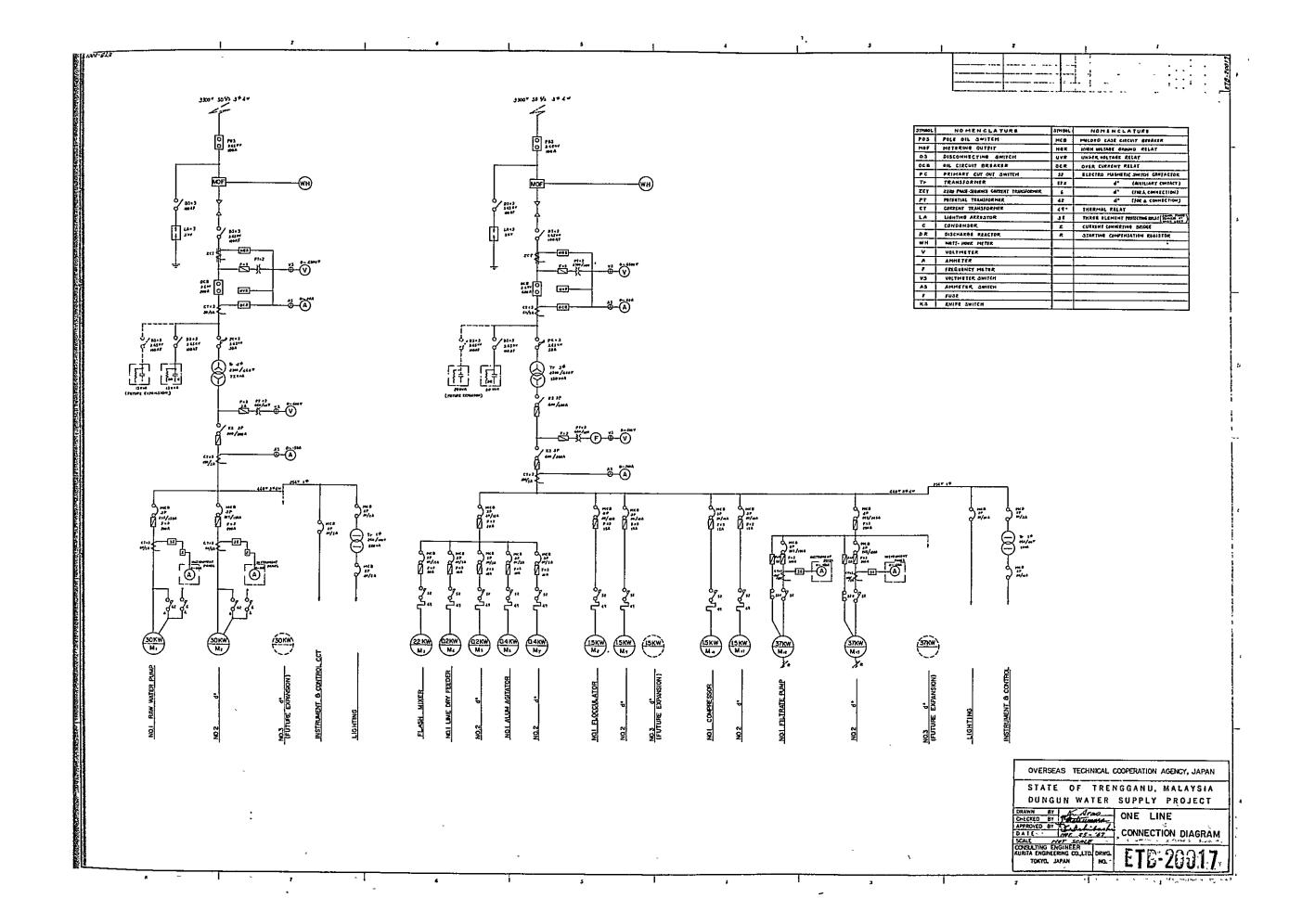


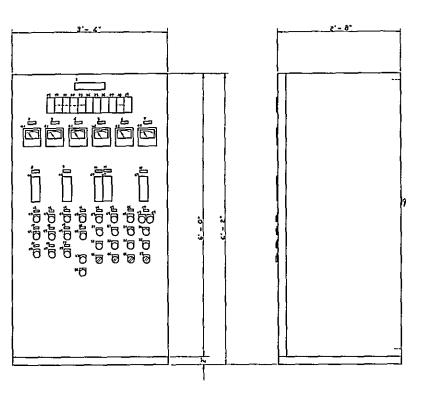


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OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA STATE OF TRENGGANU, MALAYSIA
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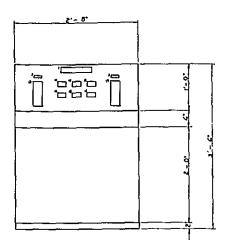


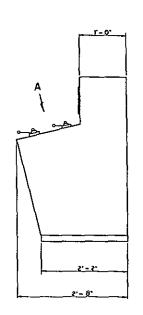
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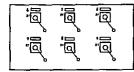
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3) REQUISED NO. 1381 4) COLOUR FINISH " DUESTIPE THESTOP

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A VIEW

IS THICKNESS OF THE PLATE 36" OVERALL

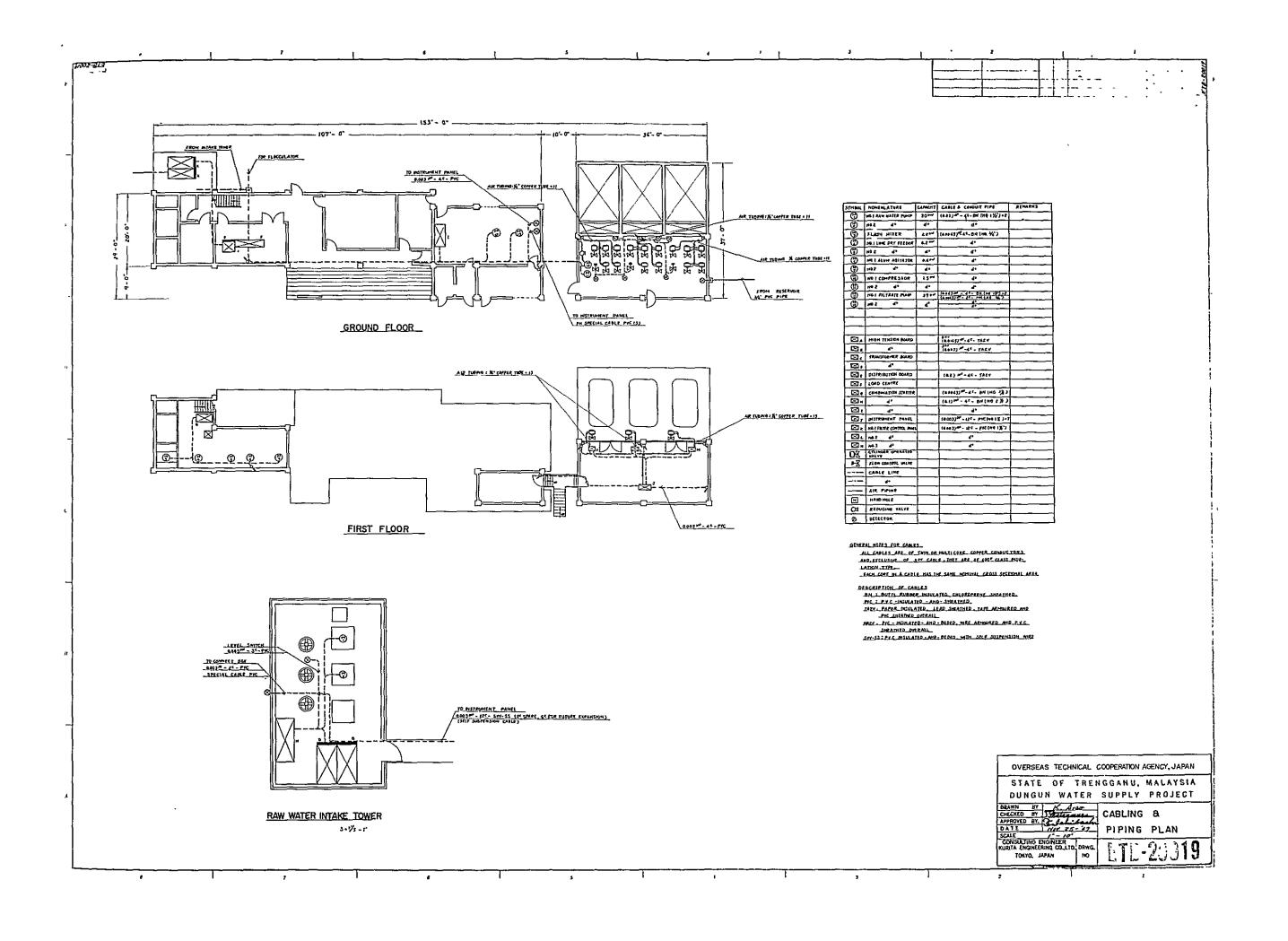
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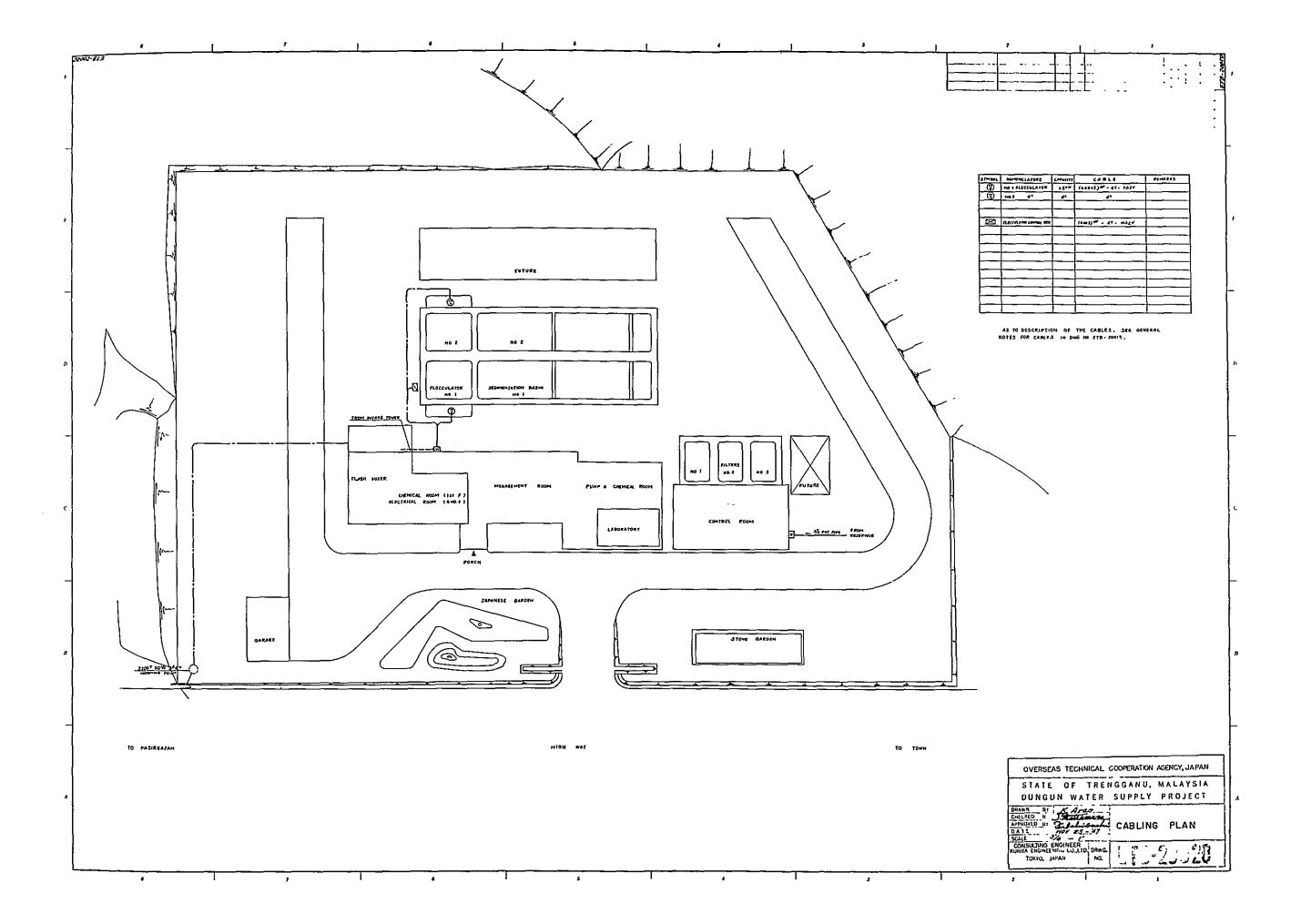
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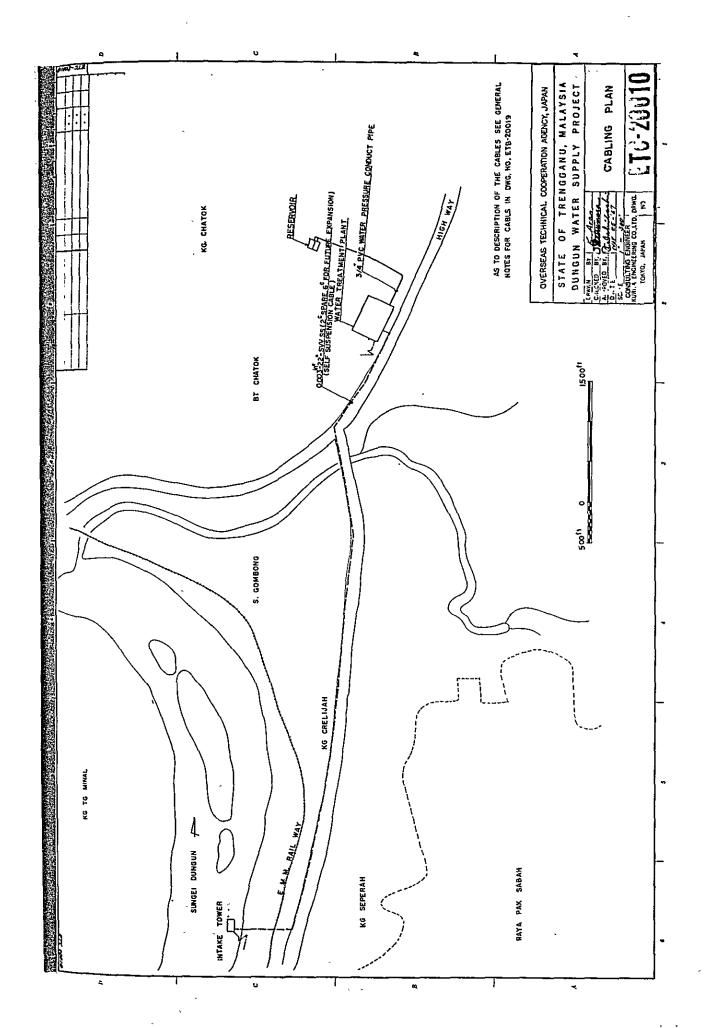
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OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA DUNGUN WATER SUPPLY PROJECT

F1-50018







### SOIL PROFILE

LOCATION:	DUNGUN
BOREHOLE NO:	8 1
BORING DEPTH (ET)	66.0
DRILLING METHOD	HAND AUGER
GROUND HEIGHT (FT)	16 836

PERFORMED DATE 5 - 8, SEPTEMBER, 1967

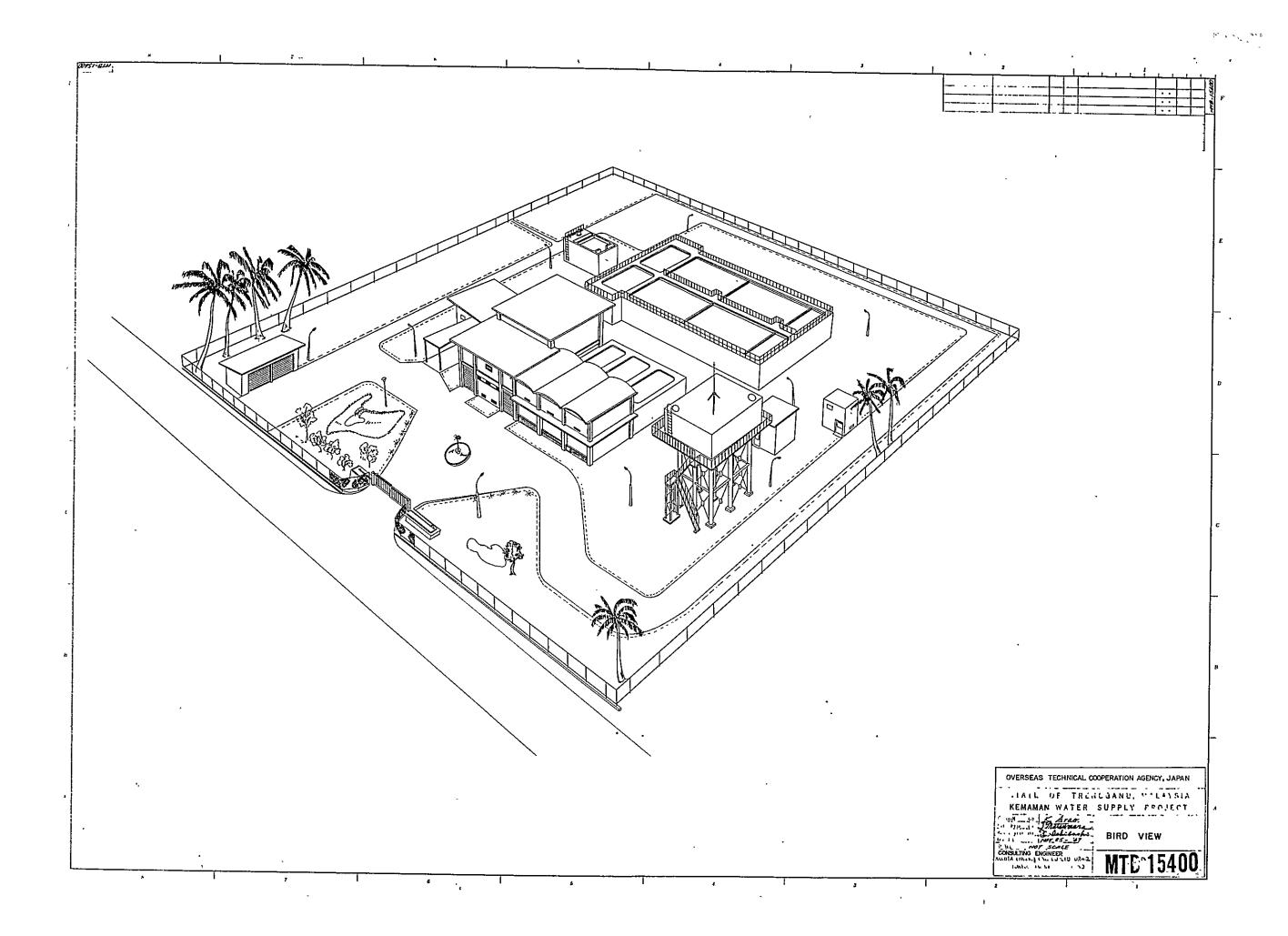
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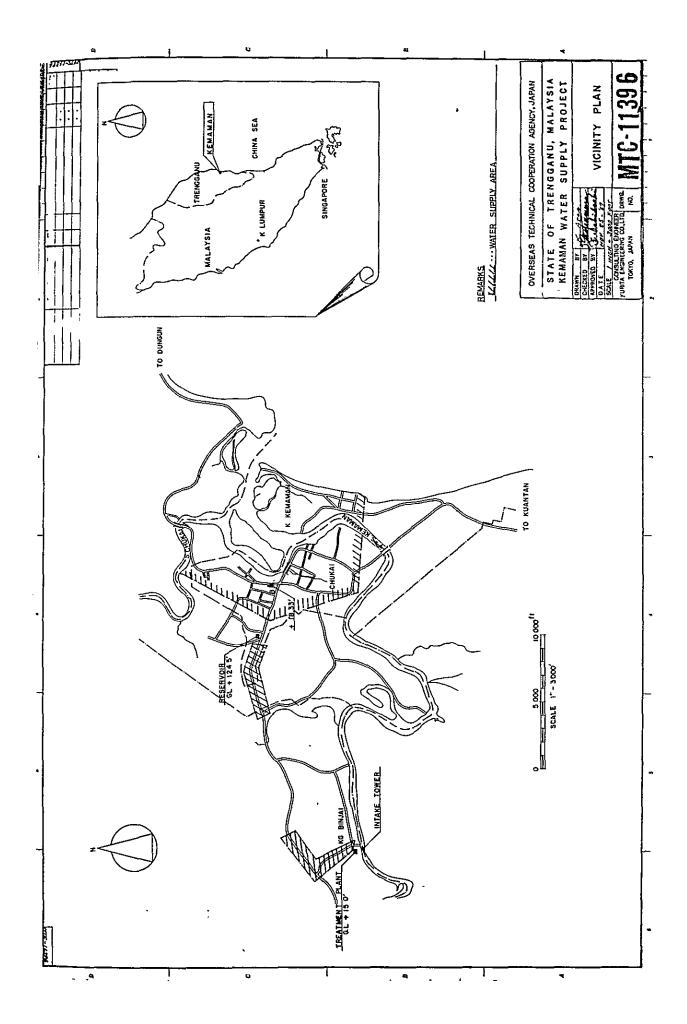
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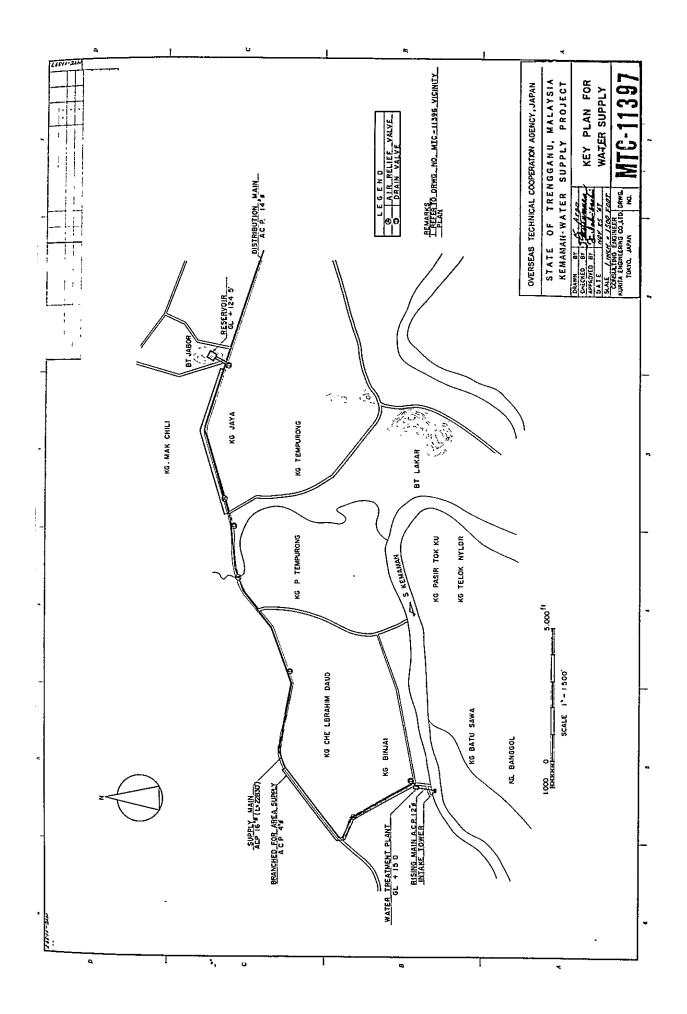
				SOIL						<del></del> -
DATE	SCALE (FT)	DEPTH (FT)	SYMBOL	CLASSIFICATION	COLOUR	WATER		PRES	UMED N-	VALUE
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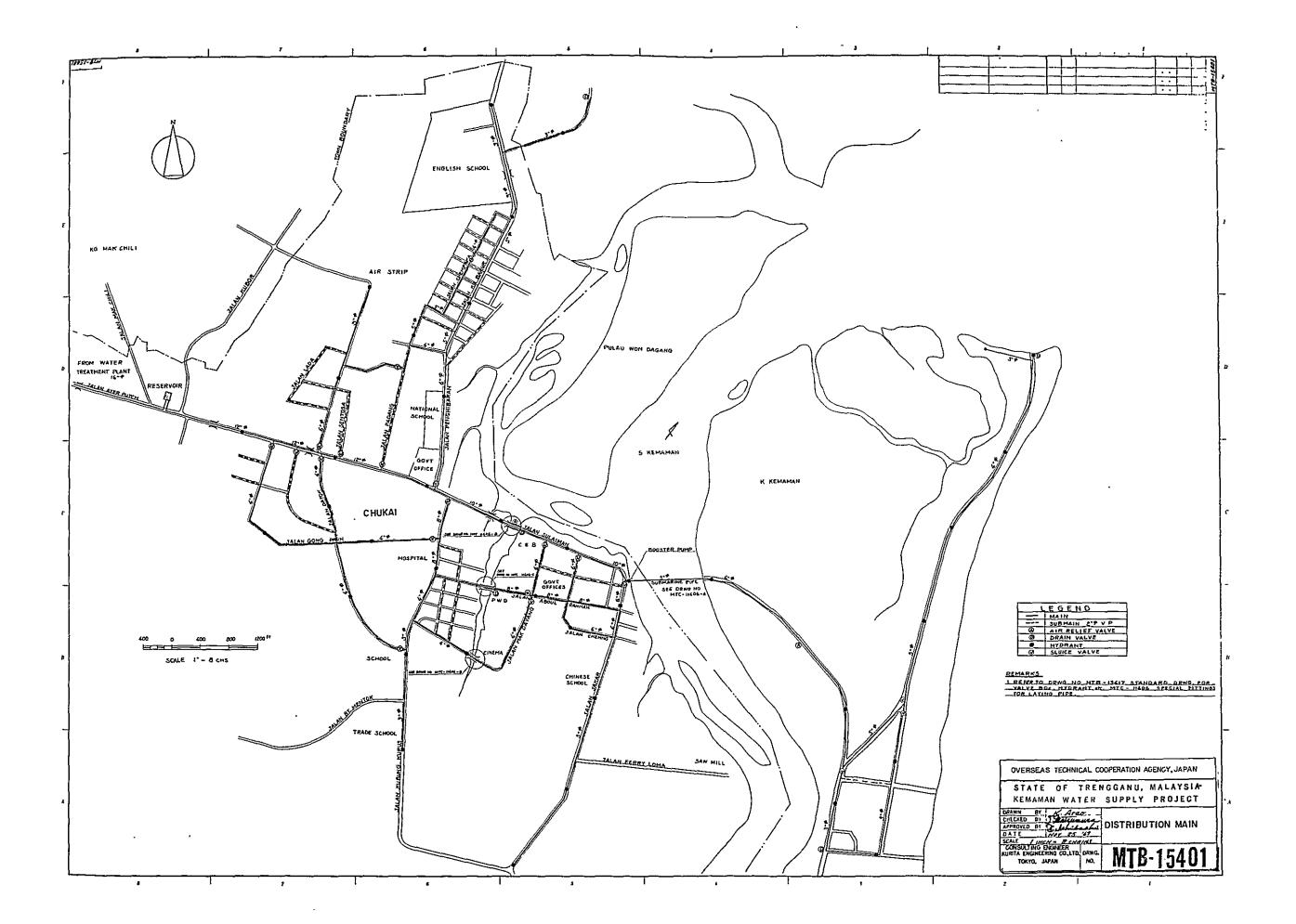
## KEMAMAN WATER WORKS - DRAWING INDEX

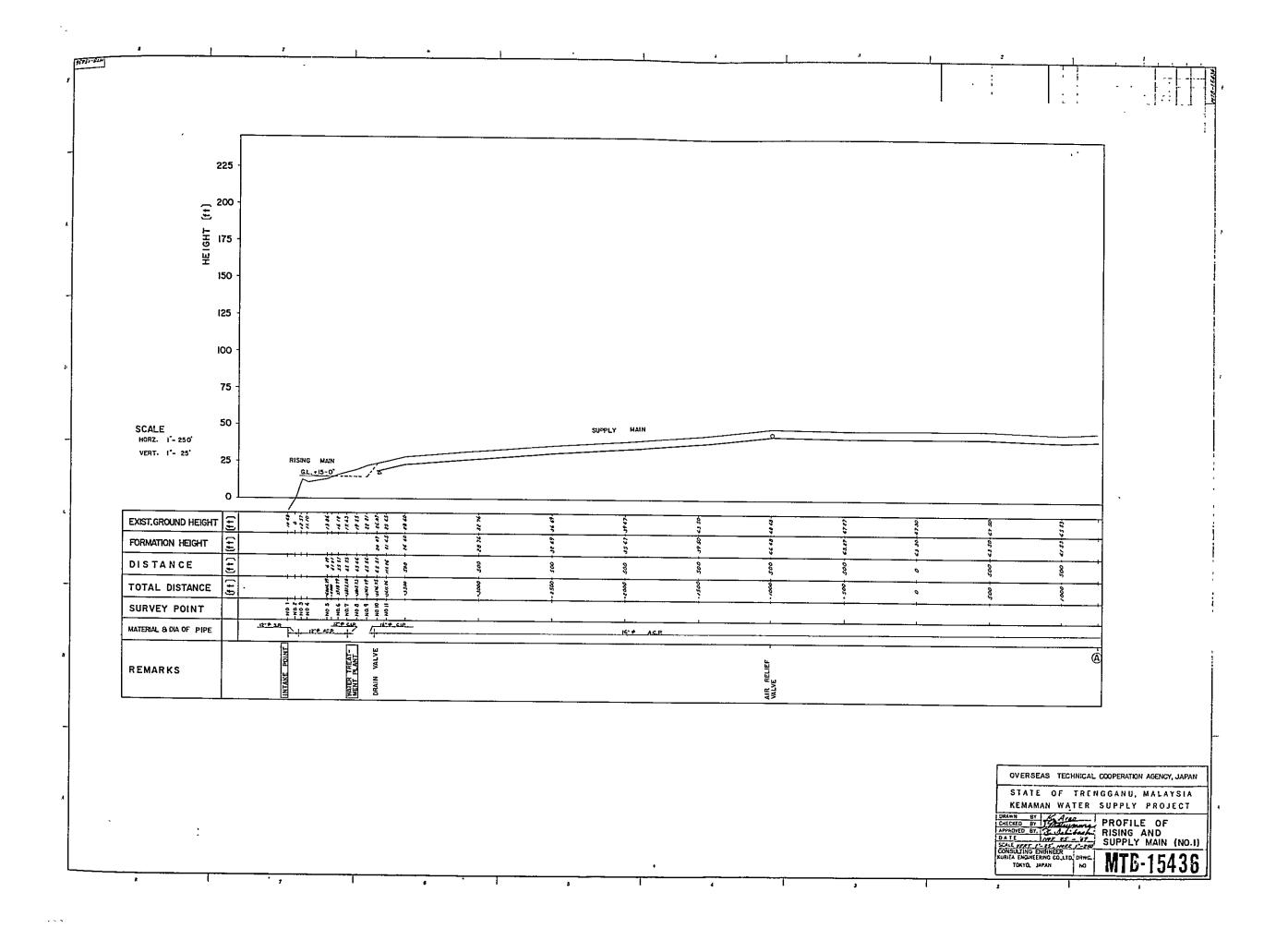
-	MTB - 15400	BIRO VIEW	2 0	MTB - 15411	GENERAL ARRANGEMENT FOR FILTER
7	MTC - 11396	VICINITY PLAN	2 1.	MTB - 15412	GENERAL ARRANGEMENT FOR FILTRATE PUMP
е;	MT C - 11397	KEY PLAN FOR WATER SUPPLY	2 2.	MTC - 11399	CHEMICAL DOSING EQUIPMENT OF LIME AND ALUM
4	MTB - 15401	DISTRIBUTION MAIN	2 3.	MTC - 11400	CHEMICAL DOSING EQUIPMENT OF CHLORINE
w	MTB - 15436	PROFILE OF RISING AND SUPPLY MAIN ( NO.1)	2 4.	MTB - 15413	HEAD TANK
œ,	MTB - 15437	. PROFILE OF SUPPLY MAIN (NO.2)	2 5.	MTB - 15414	SURGE TANK
7.	MTB - 15438	(NO.3)	2 6.	MTB - 15415	PLOT FOR RESERVOIR
øċ	MTB - 15439	CNO 4 )	2 7.	MTB - 15416	RESERVOIR
6	MTB - 15440	PROFILE OF DISTRIBUTION MAIN	2 8	MTB - 15417	STANDARD DRAWINGS FOR VALVE BOX. HYDRANT etc.
0.	MTB - 15402	FLOW DIAGRAM	2 9.	MTC - 11406	SPECIAL FITTINGS FOR LAYING PIPE
Ξ	MTB - 15403	WATER LEVEL DIAGRAM	3 0	MTB - 15445	CLARITY BOWL, CONSOLE
12	MTB 15404	PLAN AND PLOT FOR INTAKE SITE	3.1	ETB - 20012	ONE LINE CONNECTION DIAGRAM
13	MTB 15405	PLAN FOR INTAKE STATION	3 2.	ETB - 20013	INSTRUMENT PANEL AND FILTER CONTROL PANEL
14	MTB - 15406	PLAN FOR WATER TREATMENT PLANT	33.	ETB - 20014	CABLING AND PIPING PLAN
15.	MTB - 15407	FLOOR AND ELEVATION FOR CONTROL BUILDING	3 4	ETB - 20015	CABLING PLAN
16.	MTB - 15408	SECTION FOR CONTROL BUILDING	3 5	ETB - 20016	CABLING PLAN
17.	MTB -15409	GENERAL ARRANGEMENT FOR WATER TREATMENT PLANT			
18.	MTC - 11398	FLASH MIXER			
6	MTB - 15410	GENERAL ARRANGEMENT FOR CLARIFIER			











225 200 HEIGHT (ft) 175 150 125 -100 -75 · SCALE 50 · HORZ. 1' - 250' VERT, 1' - 25' 25 -EXIST, GROUND HEIGHT FORMATION HEIGHT DISTANCE TOTAL DISTANCE SURVEY POINT MATERIAL & DIA. OF PIPE **(A)** REMARKS OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA KEMAMAN WATER SUPPLY PROJECT CHECKED BY CHARLES PROFILE OF APPROVED BY CHARLES PROFILE OF SUPPLY MAIN (N. CONSTUTING ENGINEER) NO. NO. MTC-154 SUPPLY MAIN (NO.2)

32 12 7 2

BYST-BLD 225 200 - $\Xi$ 175 -150 -125-100 -75 -SCALE 50 -HORZ, 1'- 250' VERT 1"- 25" 25 -EXIST. GROUND HEIGHT 9 20 1080 FORMATION HEIGHT 36.59 -50 09 DISTANCE 11000 11013 et TOTAL DISTANCE SURVEY POINT MATERIAL & DIA OF PIPE 16-4 ACP. 16-4 ACP ◉ BRIDGE AIR RÉLIEF VALVE REMARKS OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA KEMAMAN WATER SUPPLY PROJECT DATE BY LATER PROFILE OF SUPPLY MAIN (NO.3)

SCALE PROFILE OF SUPPLY MAIN (NO.3)

SCALE PROFILE PROFILE OF SUPPLY MAIN (NO.3)

SCALE PROFILE PROFILE OF SUPPLY MAIN (NO.3)

TOKYO, JAPAN NO. MT 15438

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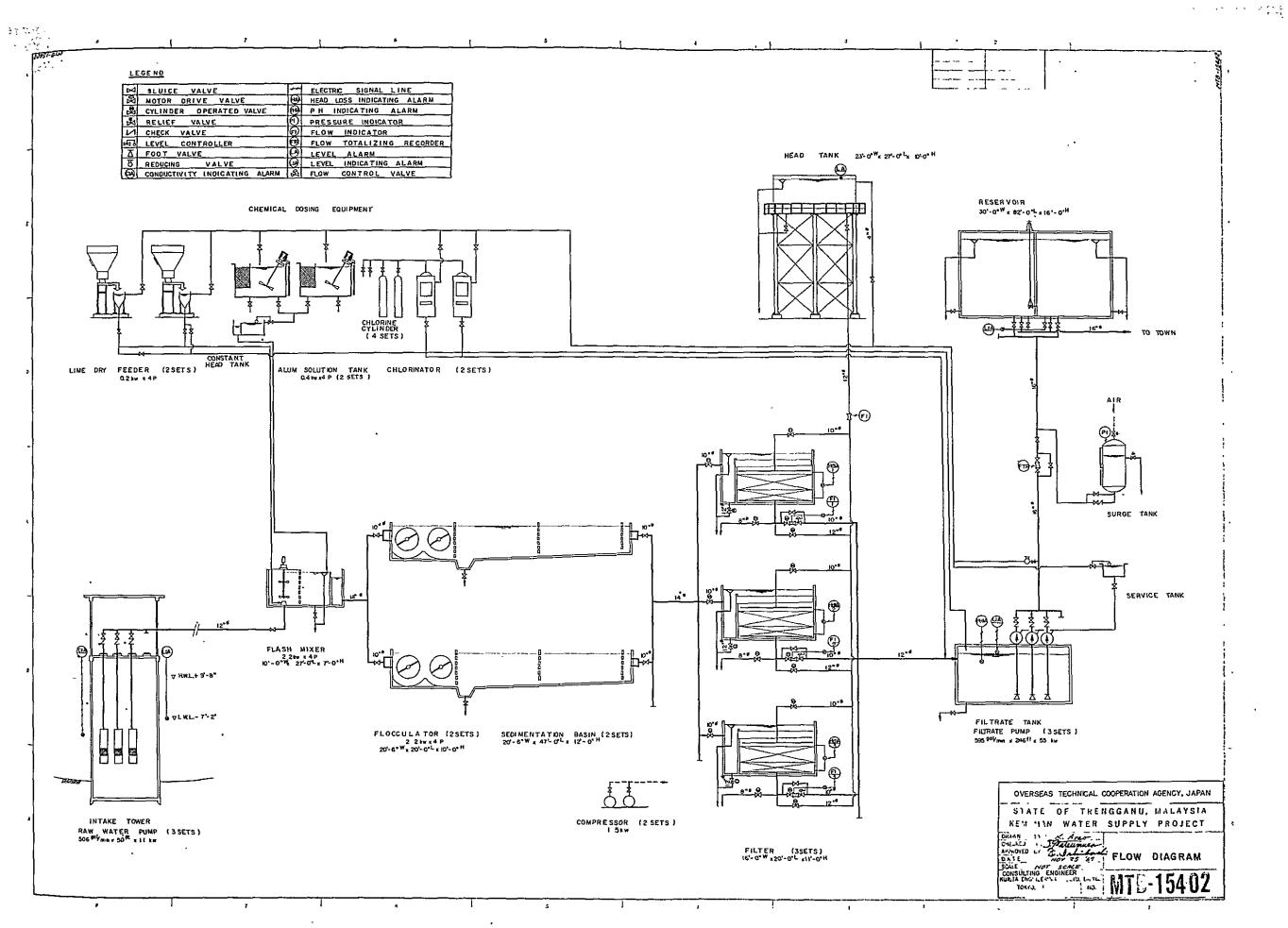
225 200 HEIGHT (11) 175 150 -125 GL + 124 - 6 100 75 -SCALE 50 HORZ. 1'- 250 VERT. 1'- 25' 25 -EXIST, GROUND HEIGHT ( FORMATION HEIGHT DISTANCE 8 - 33222 222 TOTAL DISTANCE A 100 E SURVEY POINT MATERIAL & DIA. OF PIPE 16" # 3P 11" # CIP Ò AIR RELIEF VALVE AIR RELIEF VALVE REMARKS OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA KEMAMAN WATER SUPPLY PROJECT DRAWN BY REFERENCE PROFILE OF APPROVED BY STATEMENT SUPPLY MAIN (NO.4)

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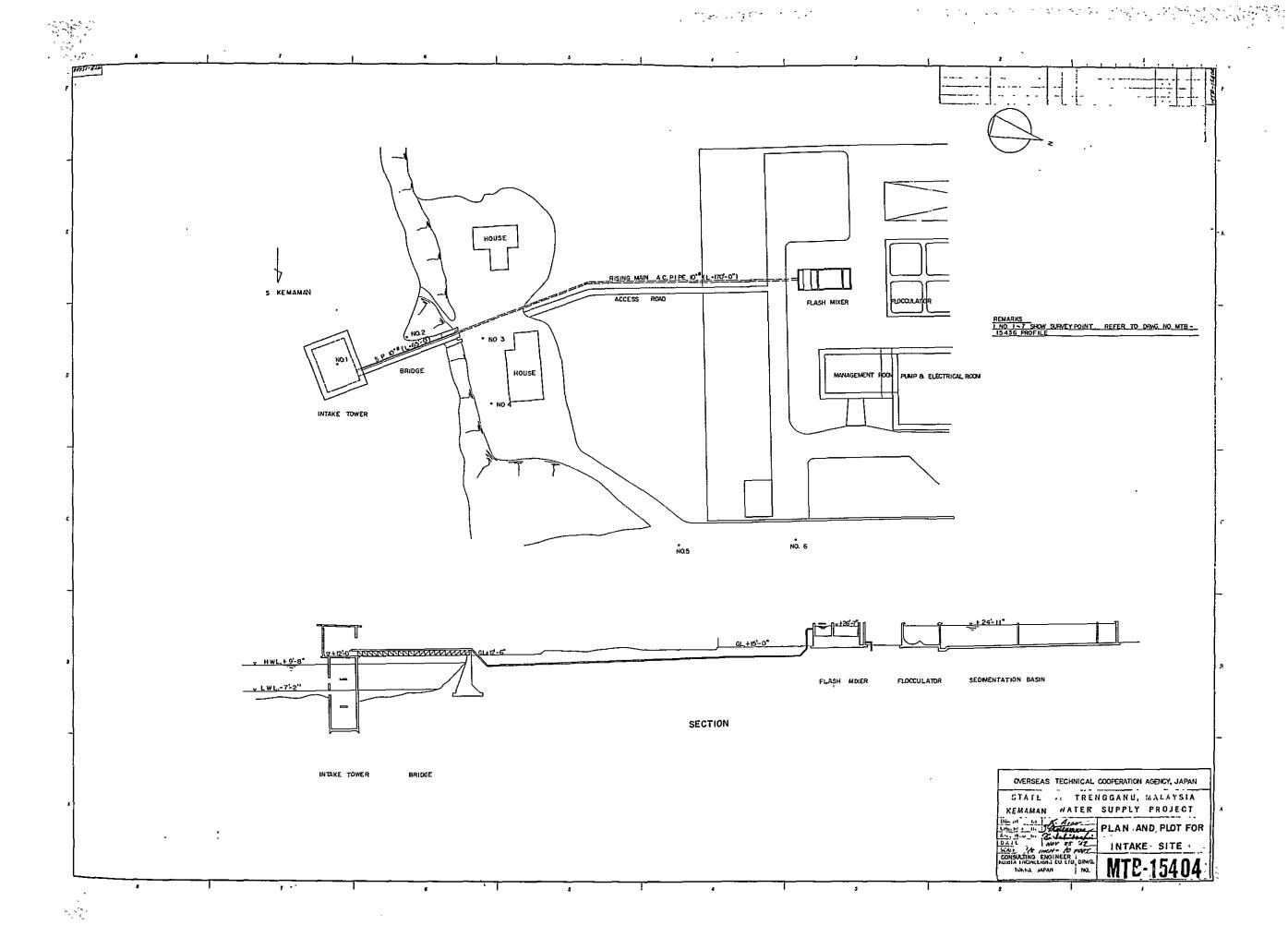
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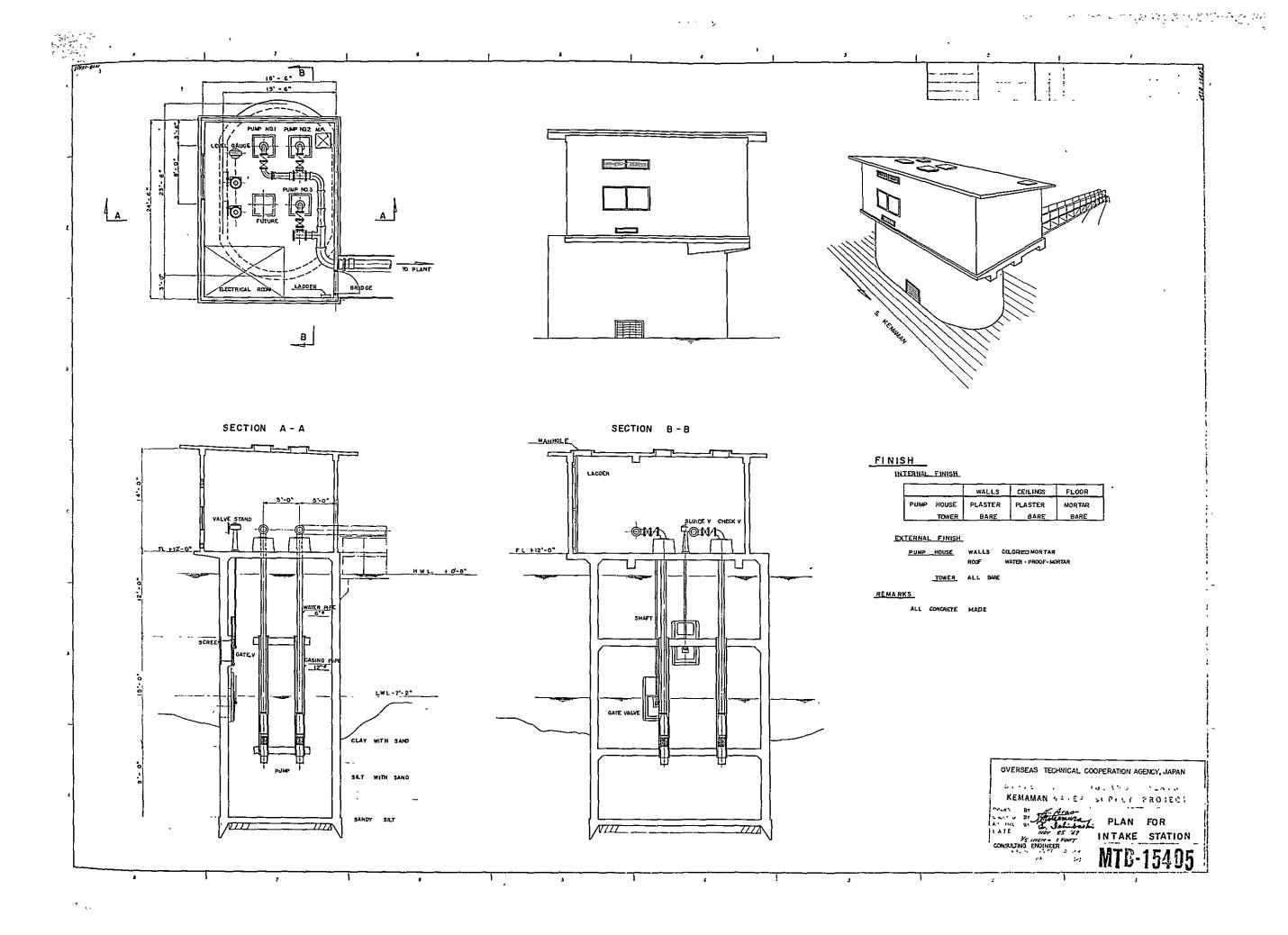
225 -200-HEIGHT (ft) 175 -150 -125 -GL, +124 - 6° 100 -75 -SCALE 50 -HORZ. 1- 250 VERT [- 25' DISTRIBUTION MAIN 25 -\$ \$2 \$22,\$55,\$ \$ \$2 \$ \$7,\$ \$23,\$75,\$ \$ \$ EXIST. GROUND HEIGHT 7,00% 3,6 2 3 5 10.61 2,5 FORMATION HEIGHT .... 11 × 12 × 12 DISTANCE TOTAL DISTANCE SURVEY POINT 15-+ SP K-+ CIP | H-+ SP | IS ACP IL-+ ACP MATERIAL & DIA OF PIPE BRIDGE ORAIN VALVE AIR RELIEF VALVE REMARKS OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA KEMAMAN WATER SUPPLY PROJECT CHICKED BY TAGILLAMINE PROFILE OF APPROVED BY TAGILLAMINE PROFILE OF SCALE PERFORMENT PROFILE OF SCALE PERFORMENT PROFILE OF SCALE PERFORMENT PROFILE OF WARTER ENGINEERING COLLED DRIVE. TOKYO, JAPAN NO. MTL-1544U

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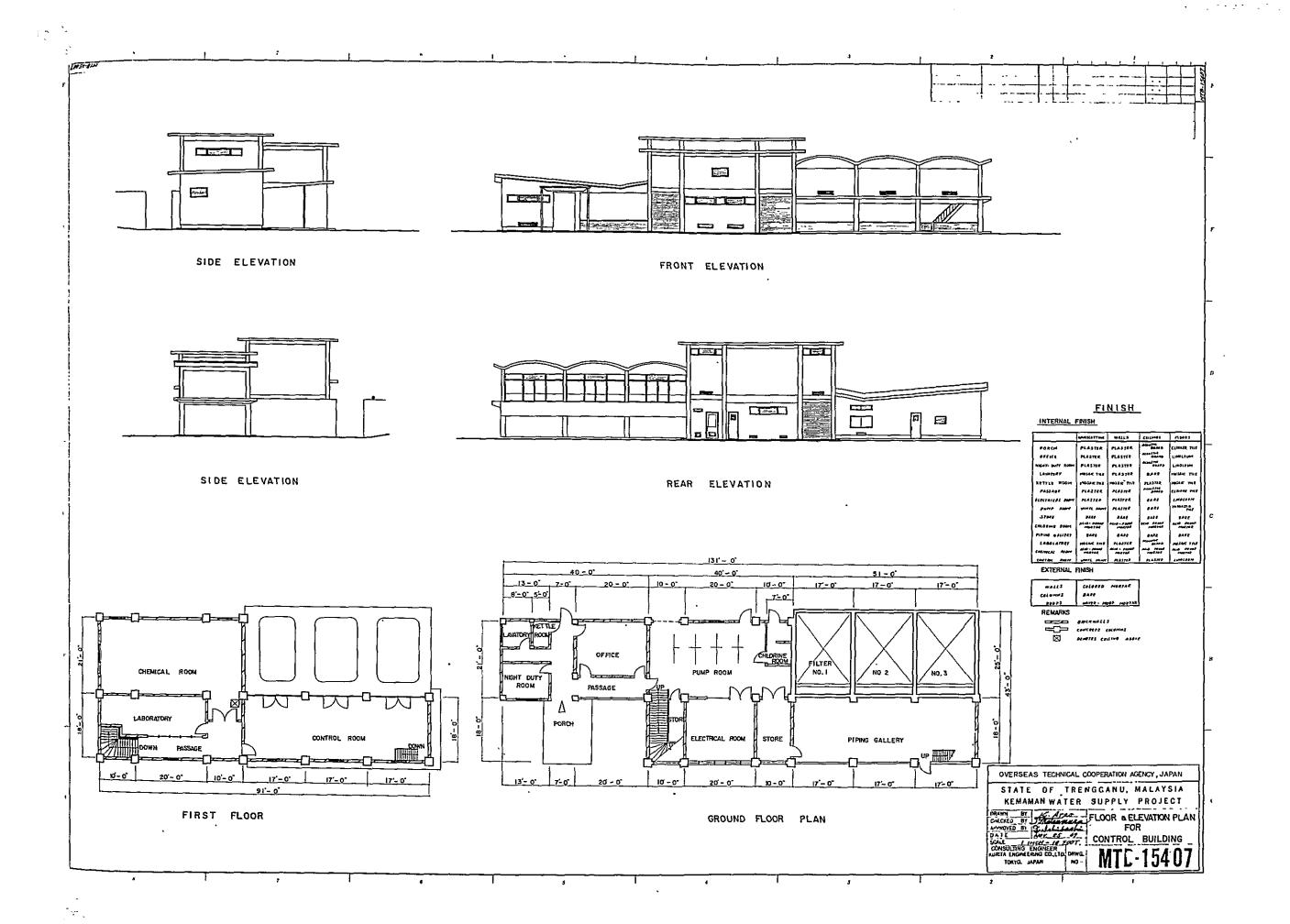
GL+124'-6" HEAD TANK RESERVOIR INTAKE TOWER FLASH MIXER FLOCCULATOR SEDIMENTATION BASIN FILTRATE TANK FILTER + 42 -8 WL+26'-7" WL+25'-7" 61 +15'-0" OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN STATE OF TRENGGANU, MALAYSIA WATER LEVEL DIAGRAM

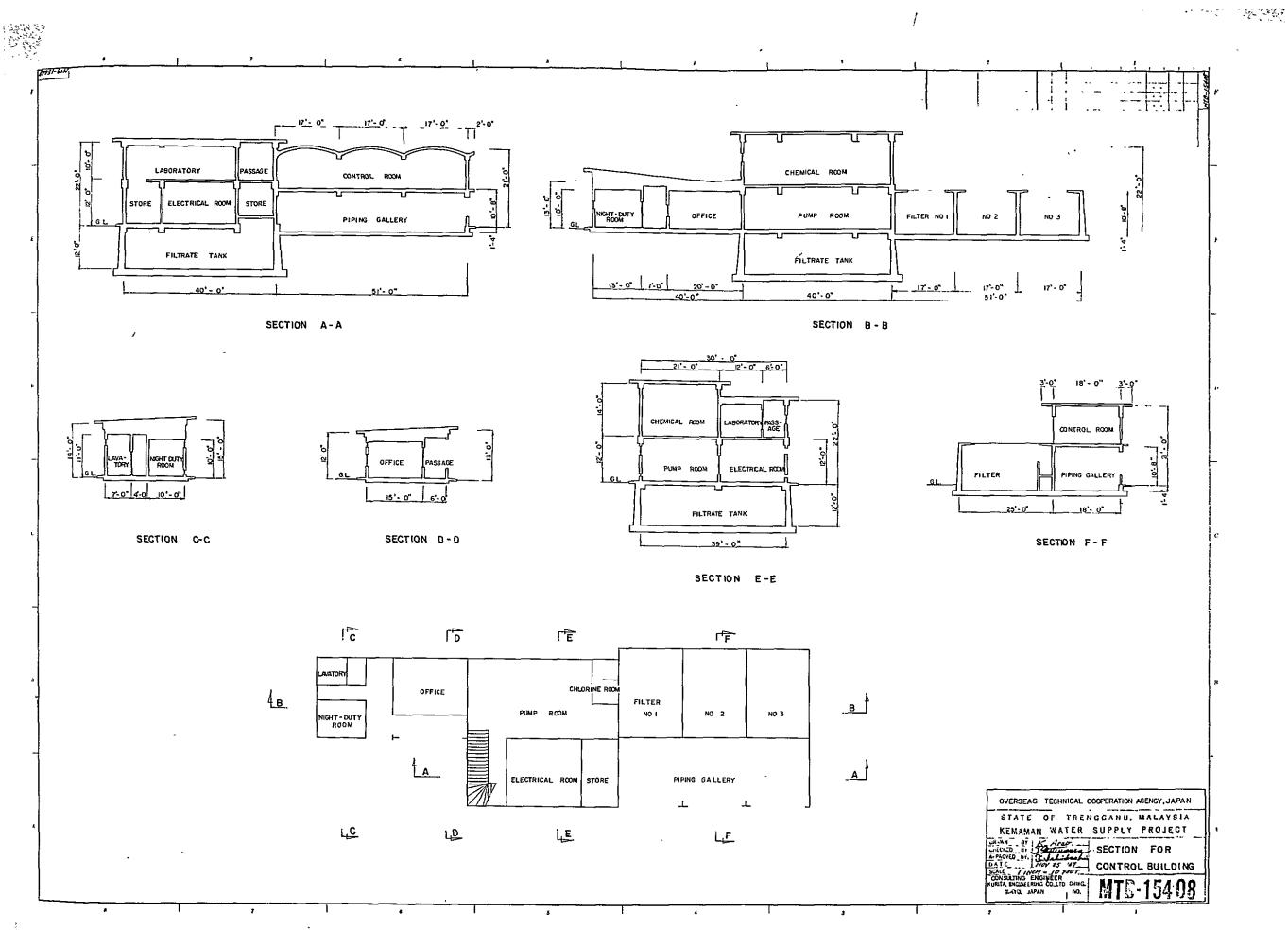




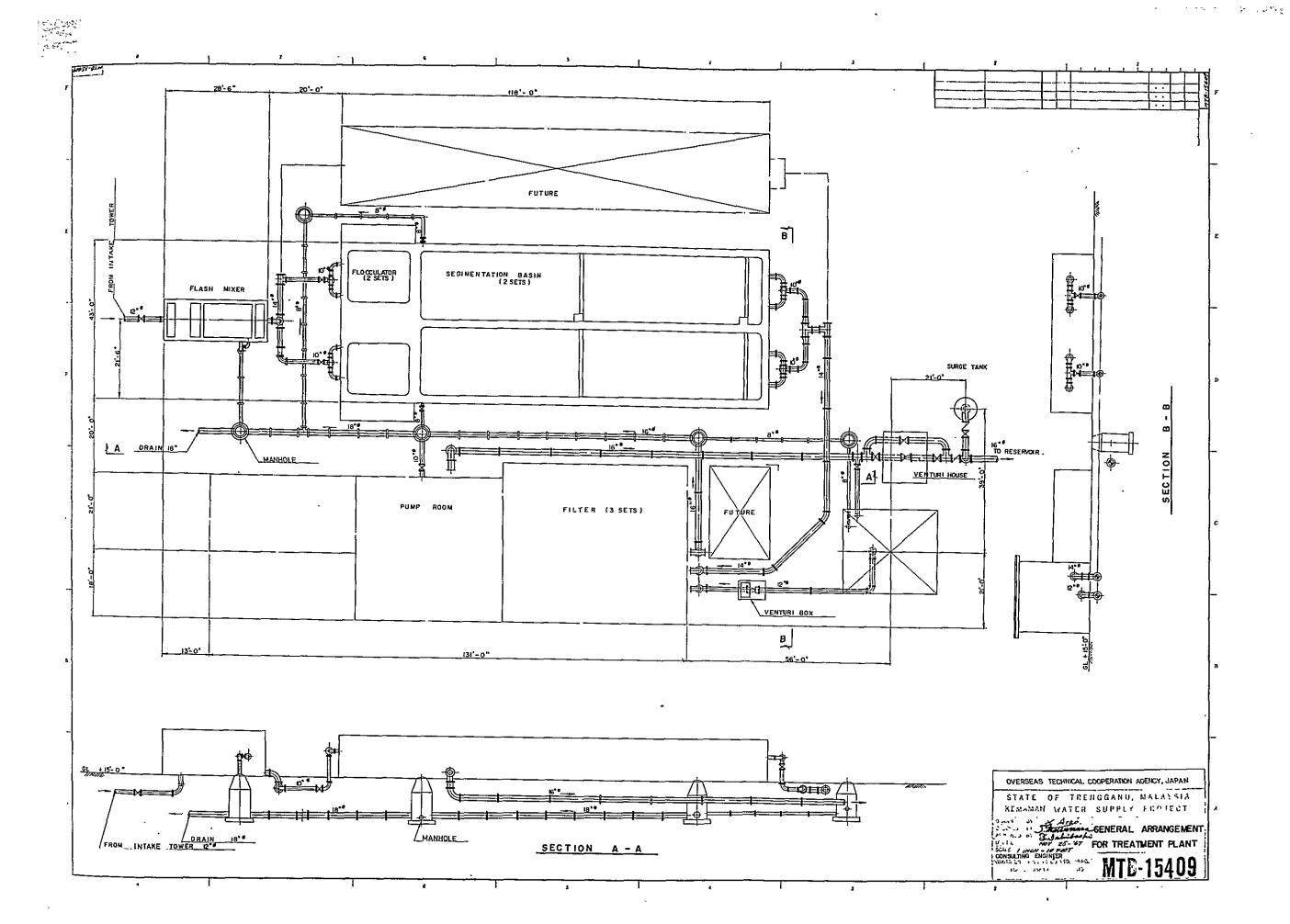
NO 2 NO 2 FLASH MIXER FLOCOULATOR SEDIMENTATION BASIN NO. I NO 1 HOUSE FILTERS NO 2 K 0N MANAGEMENT ROOM CHEMICAL & TEST ROOM (IST F.) HEAD TANK PUMP & ELECTRICAL ROOM (GND F) CONTROL ROOM PORCH JAPANESE GARDEN GARAGE TO RIVER ROAD TO HIGH WAY OVERSEAS TECHNICAL COOPERATION AGENCY, JAPAN 

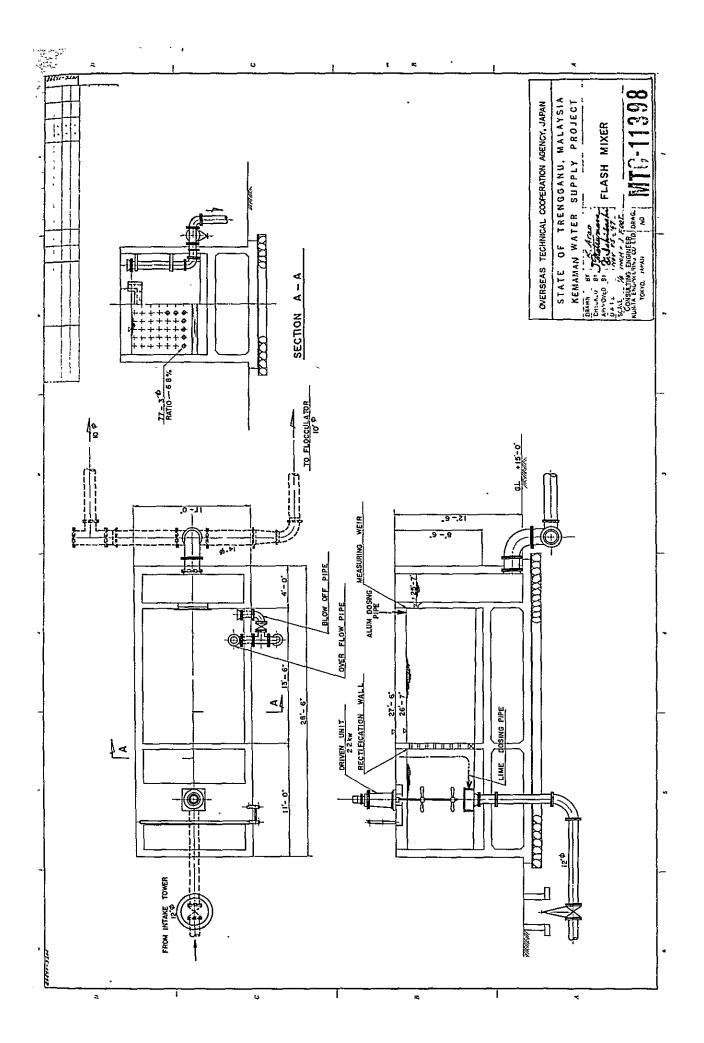
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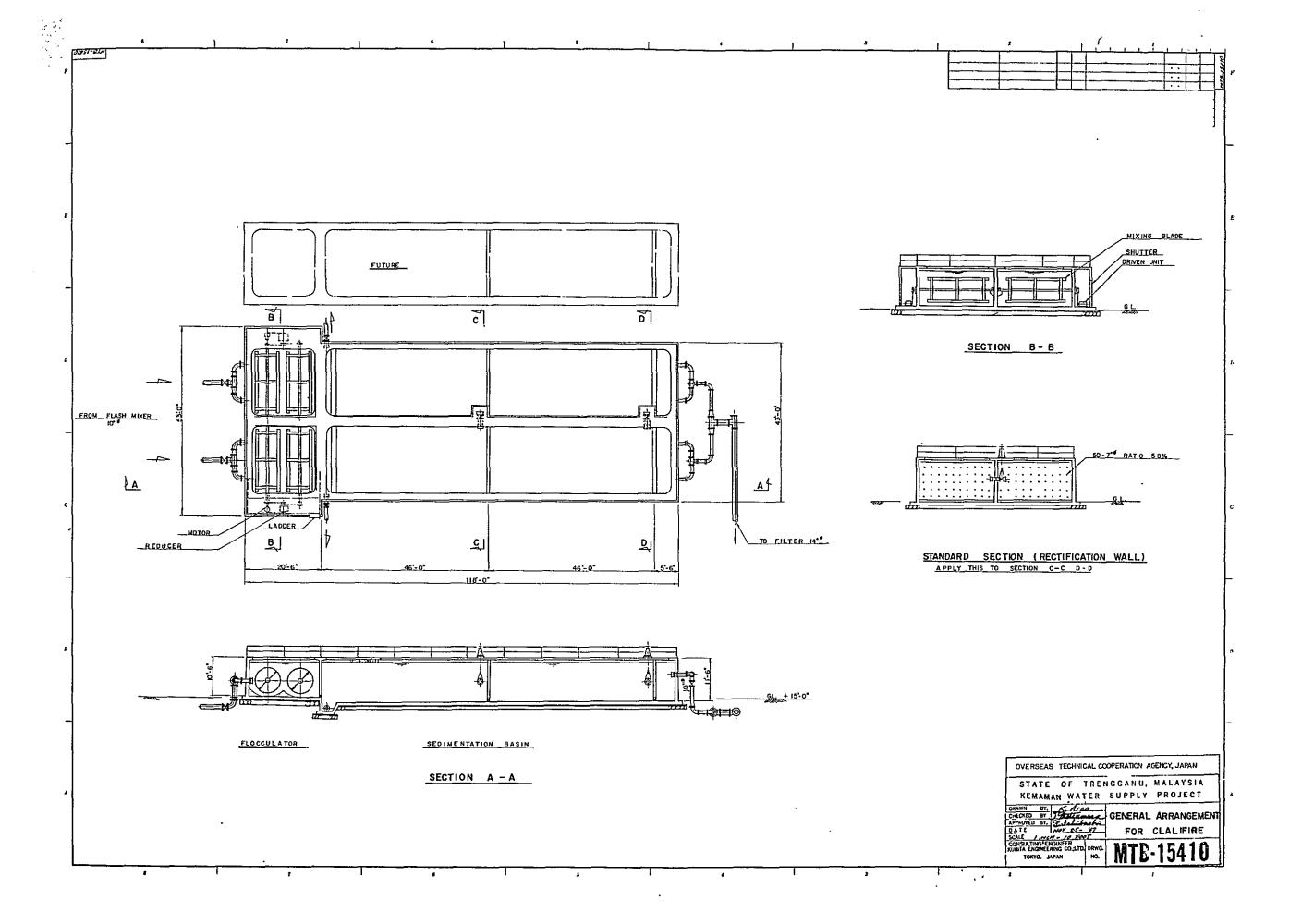


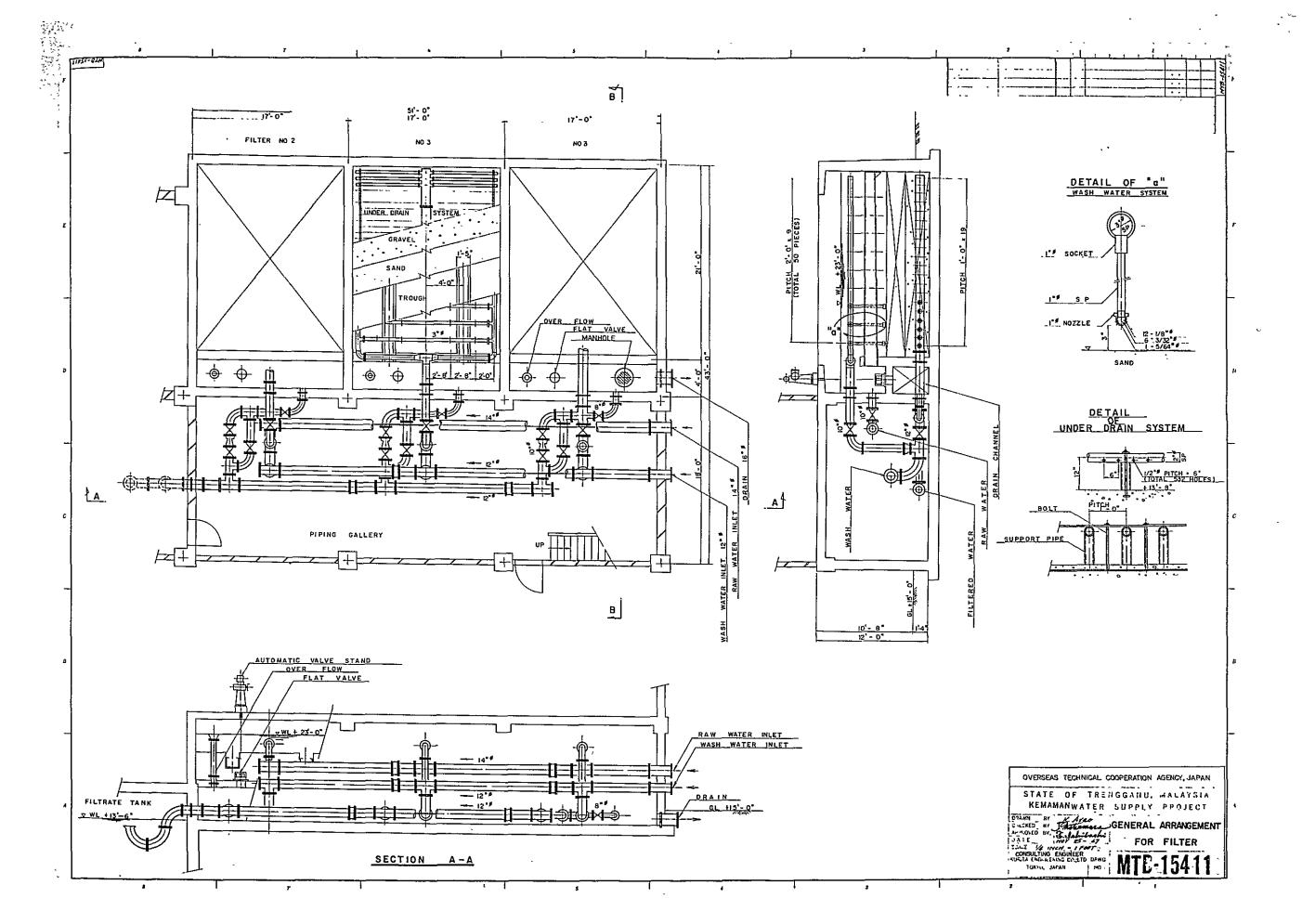


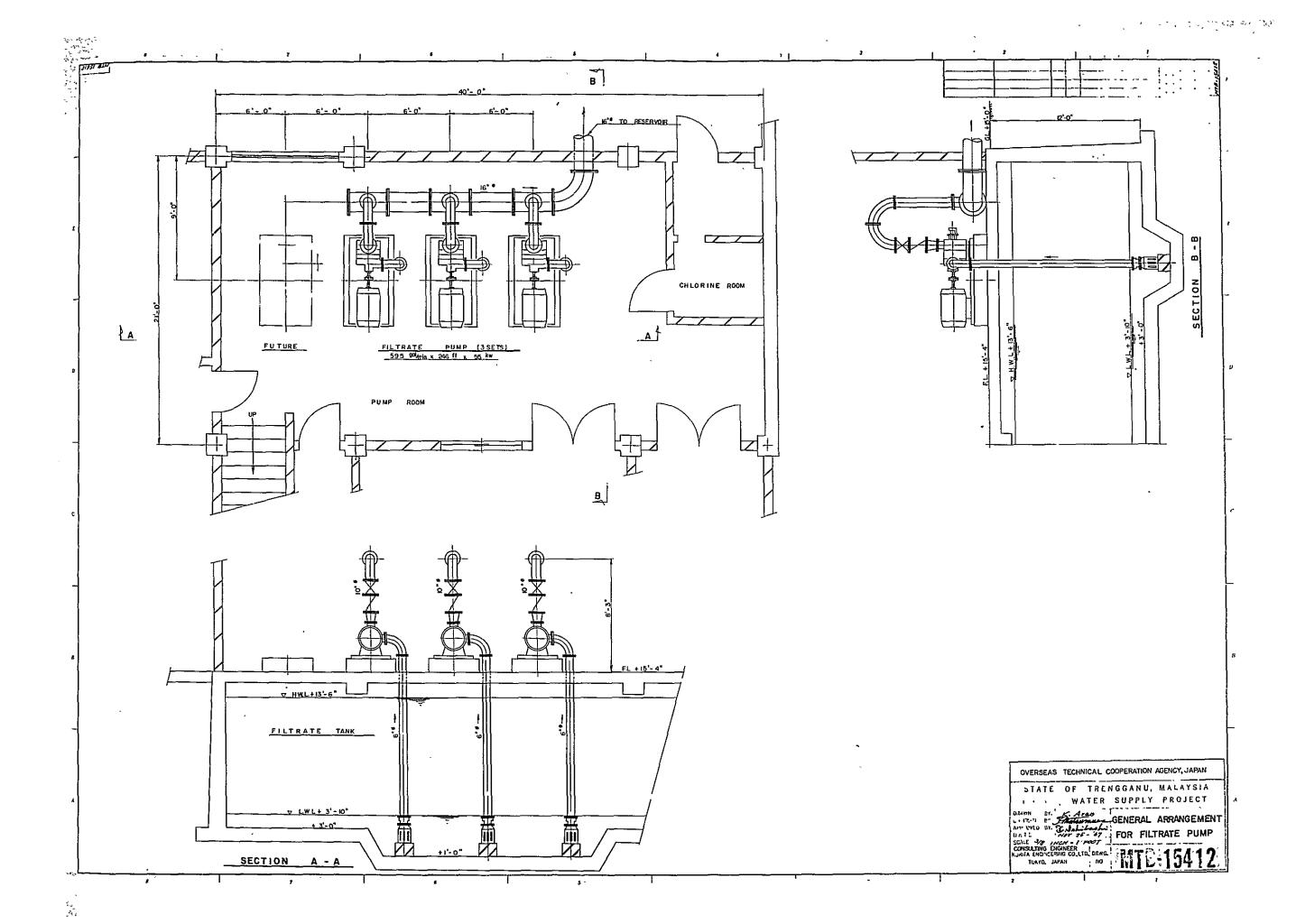
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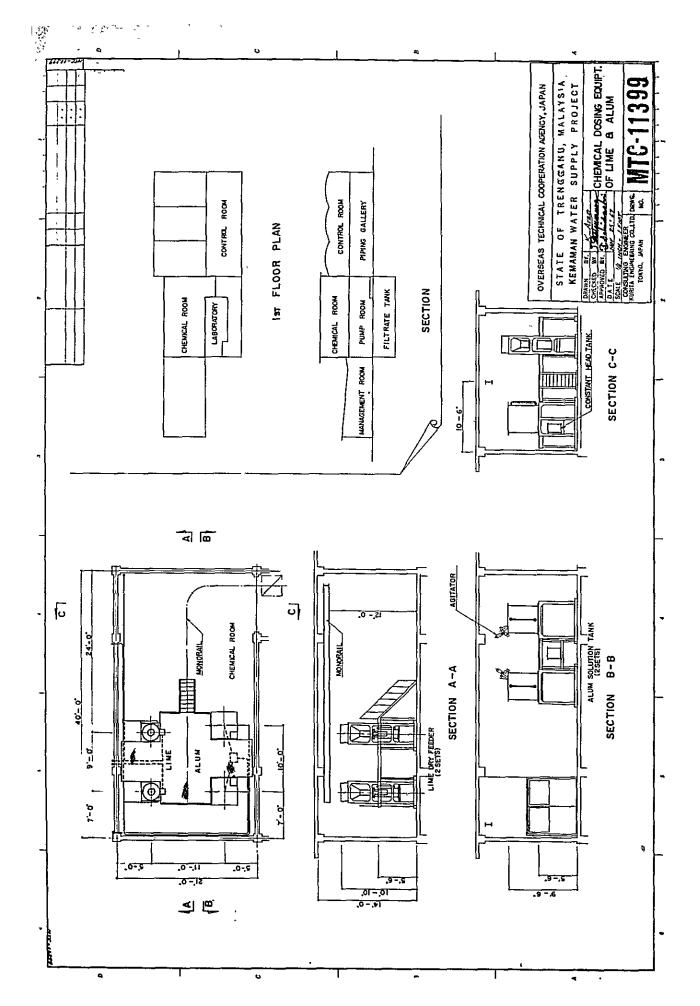


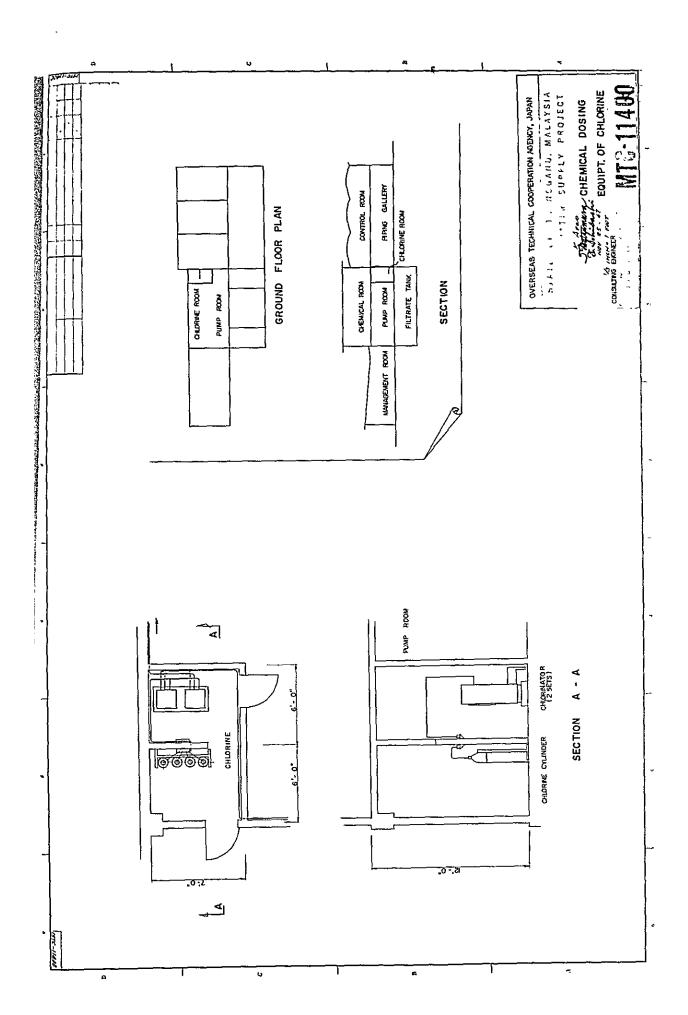


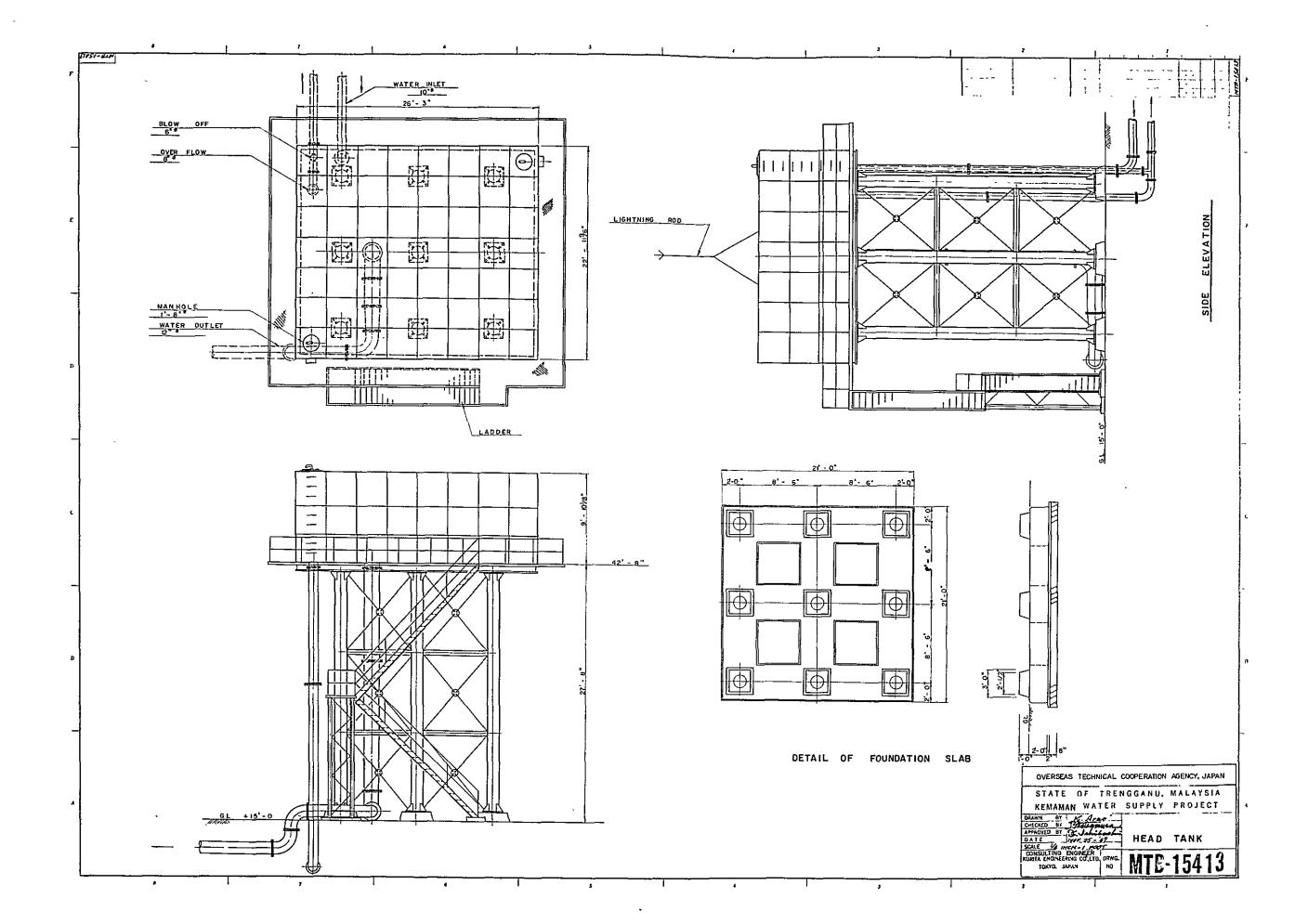


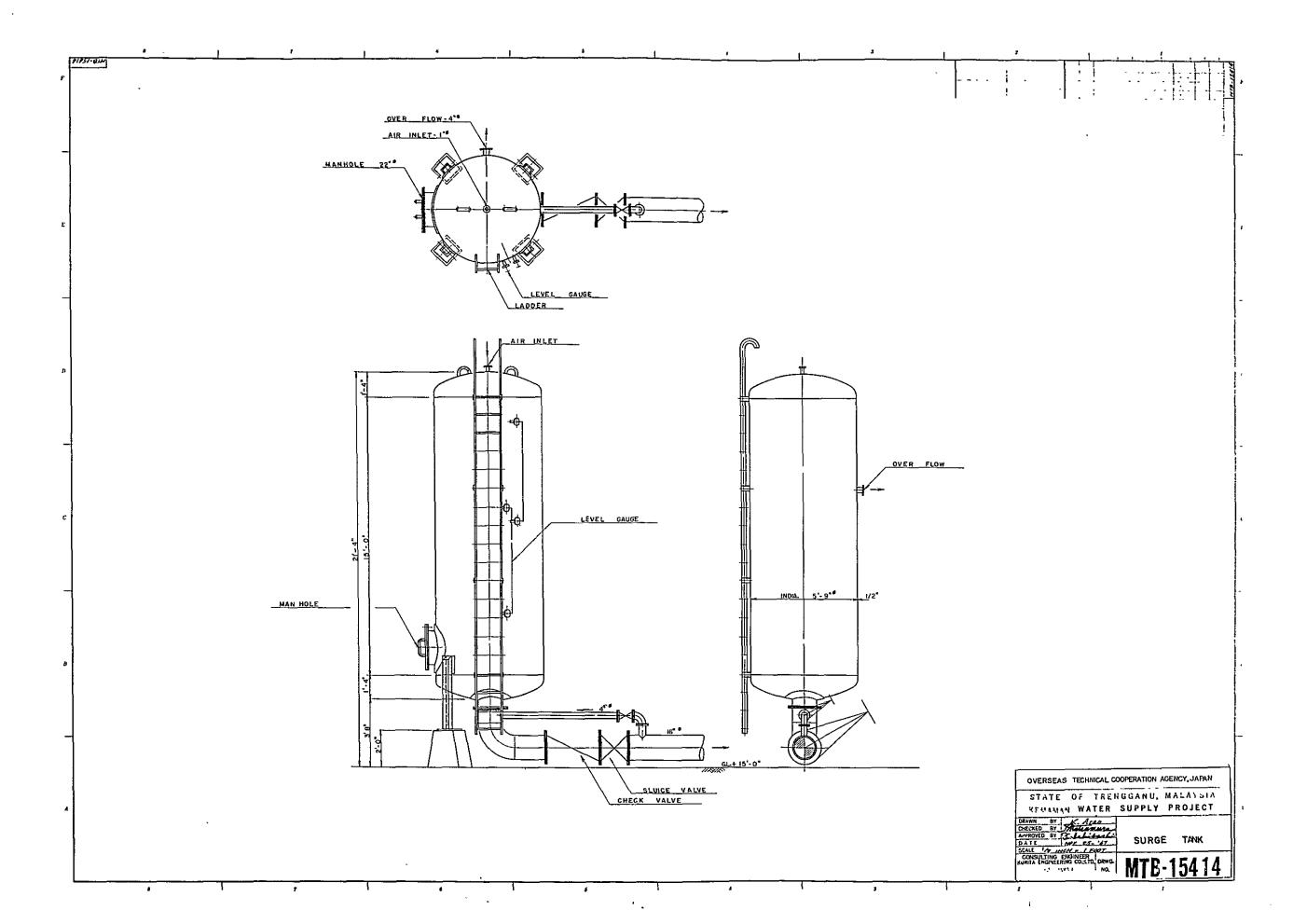


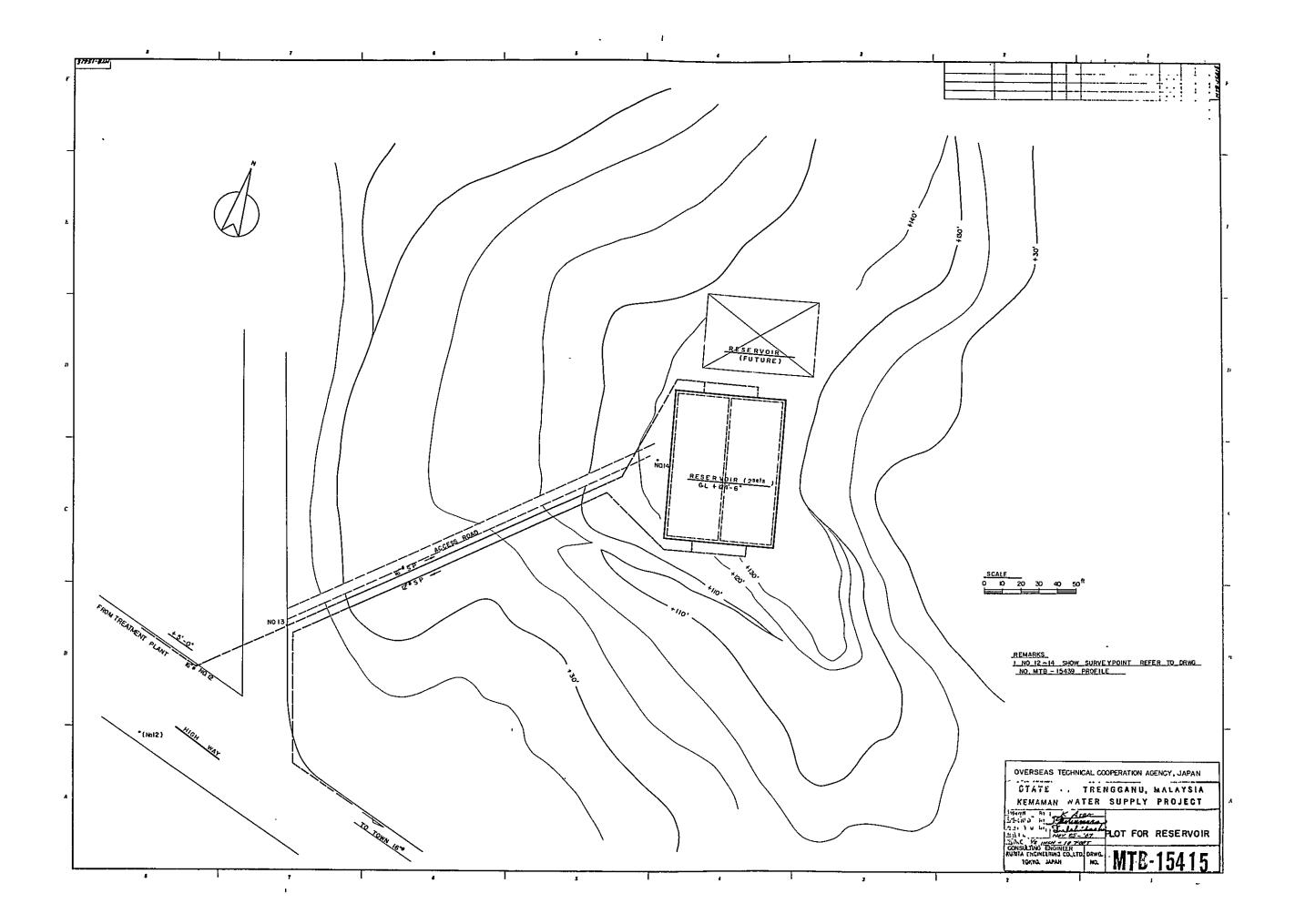


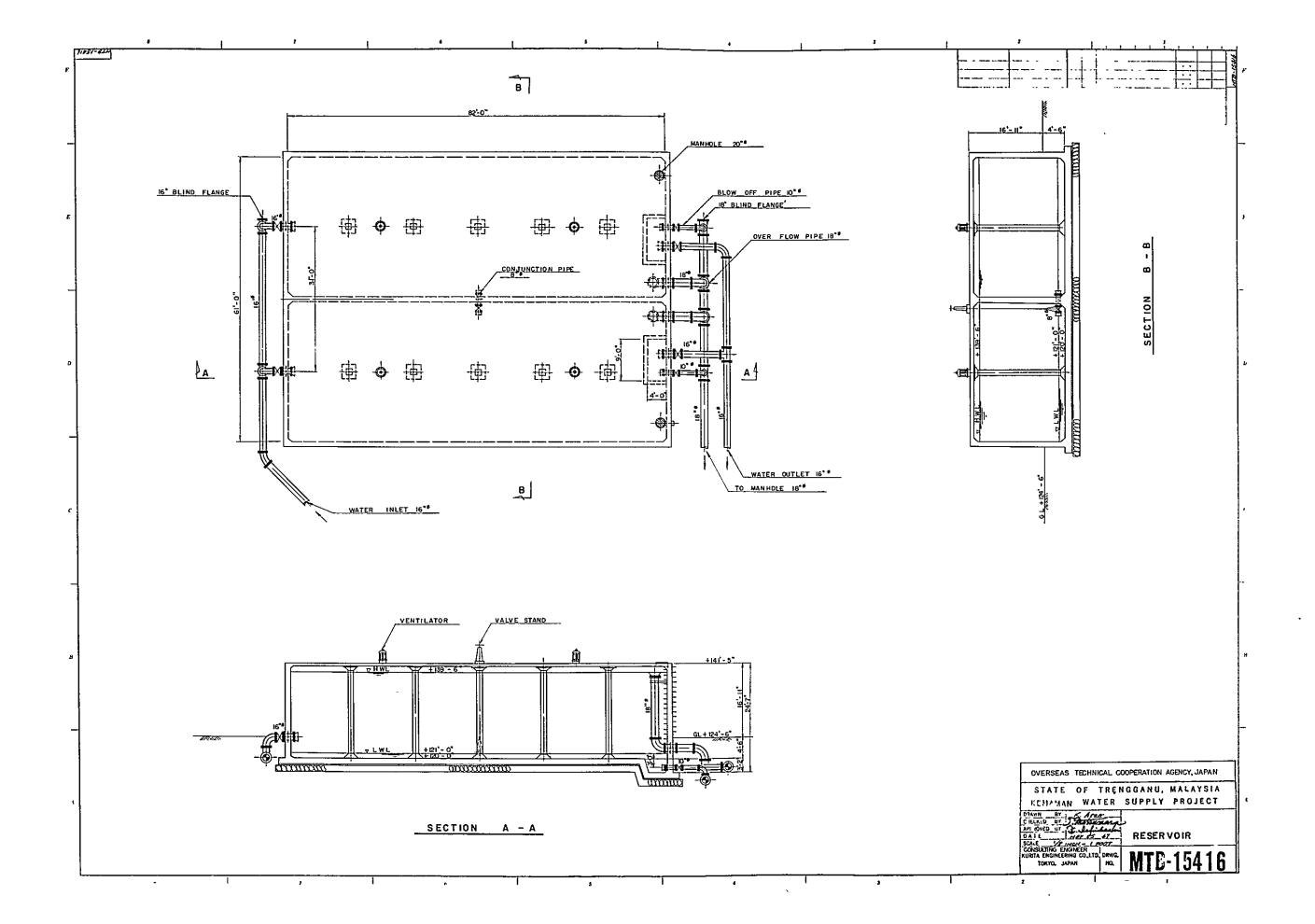


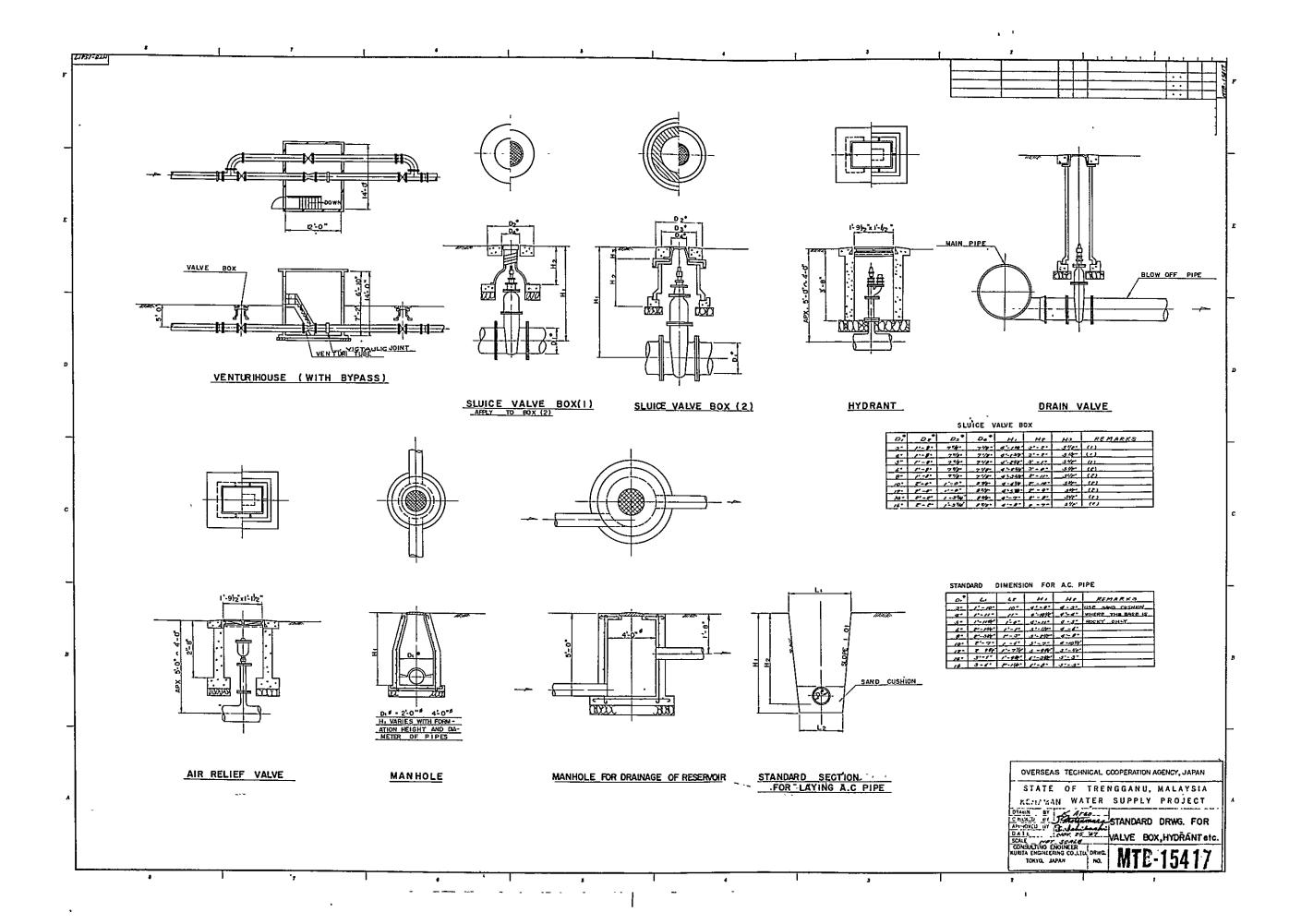


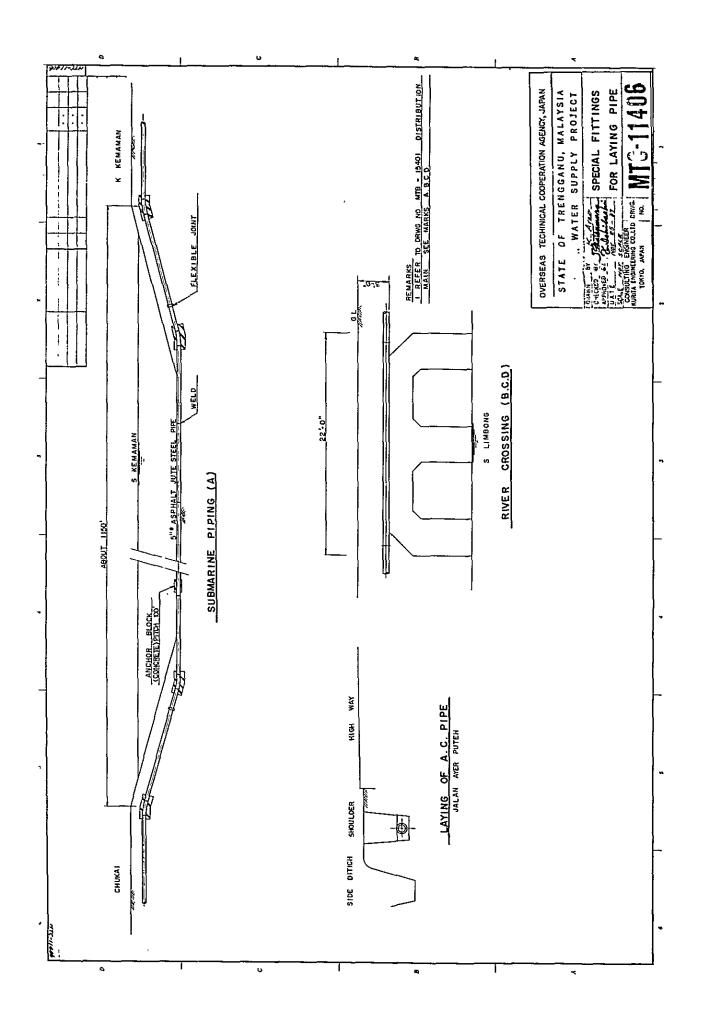


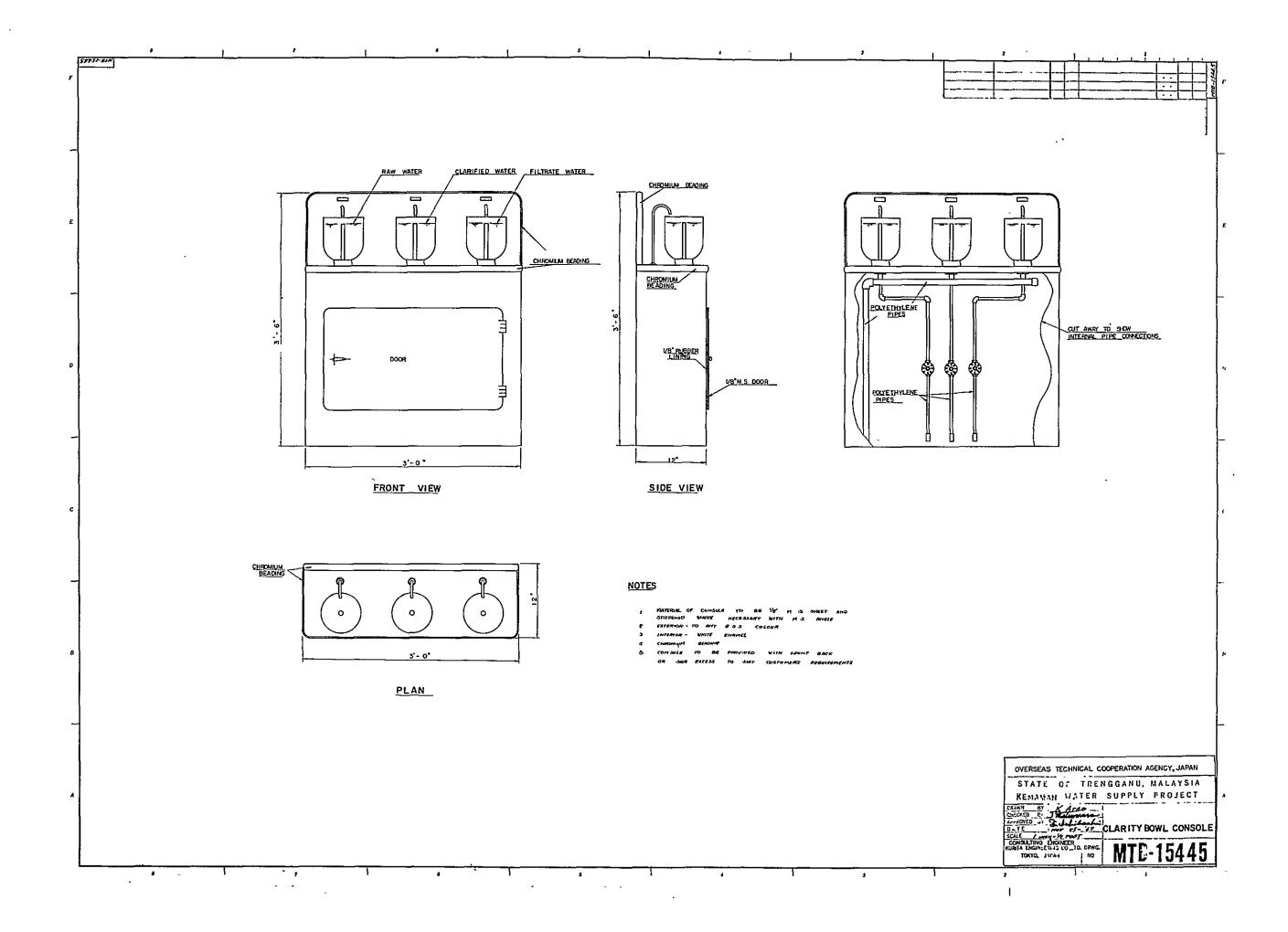


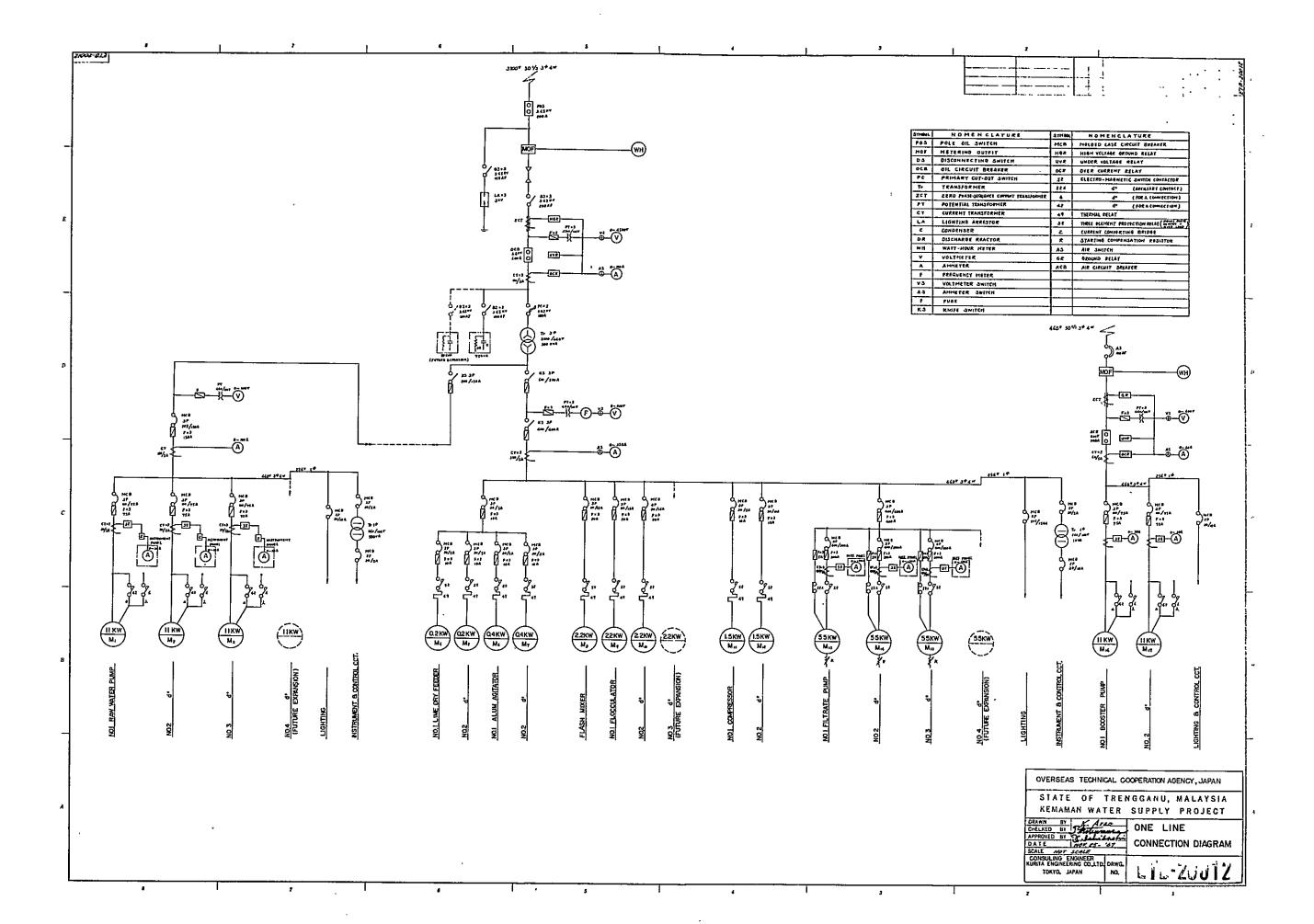


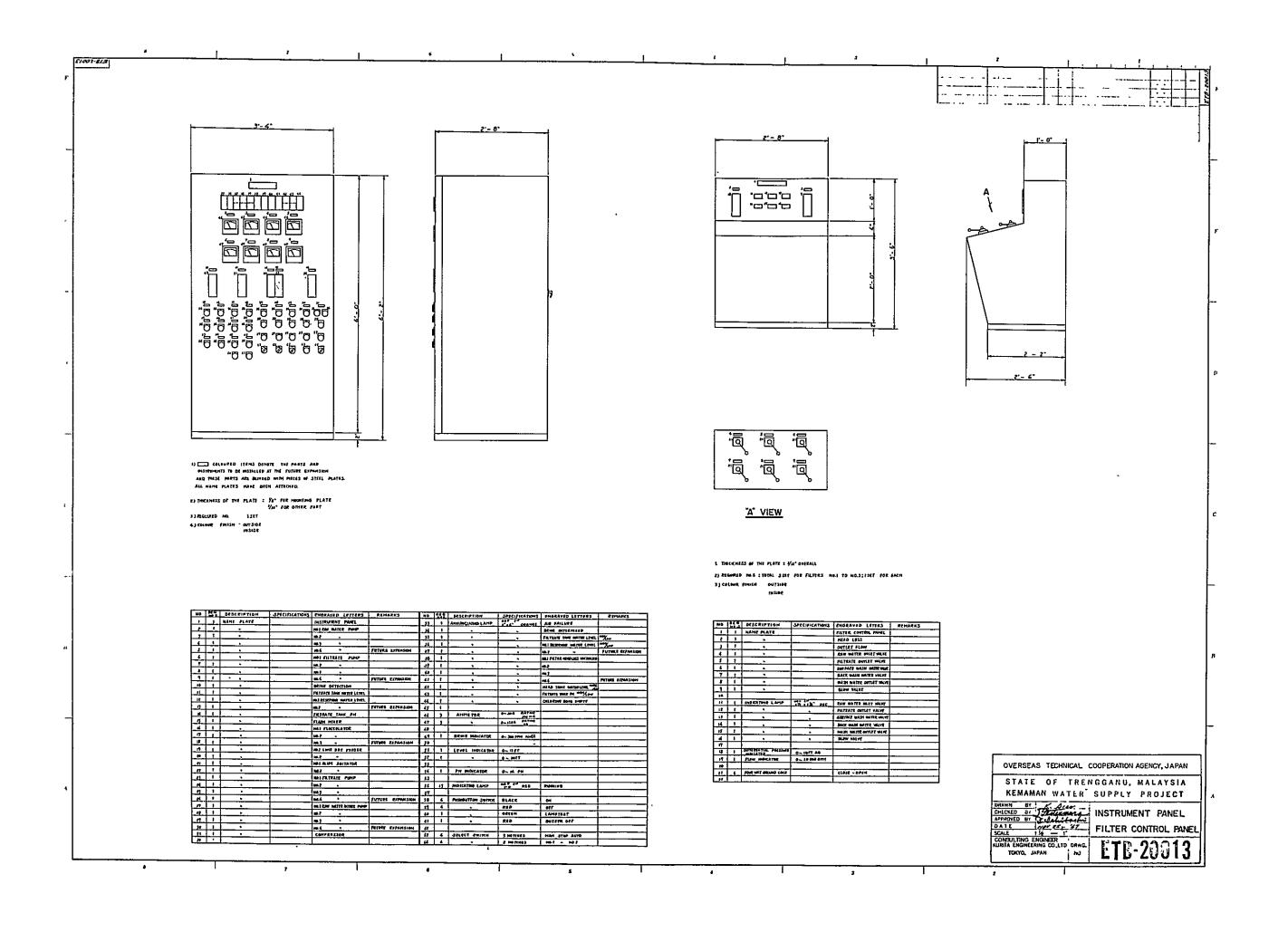


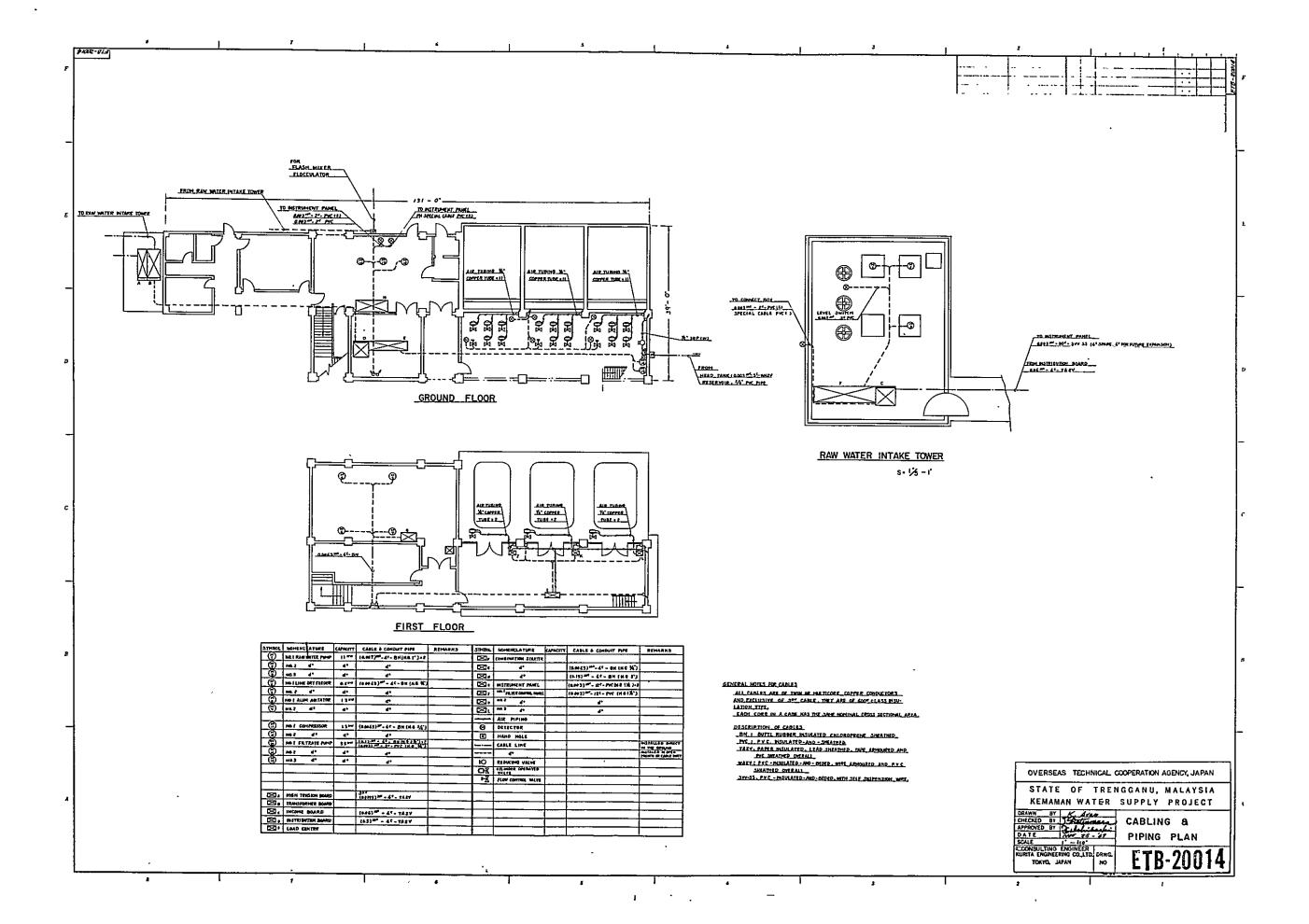


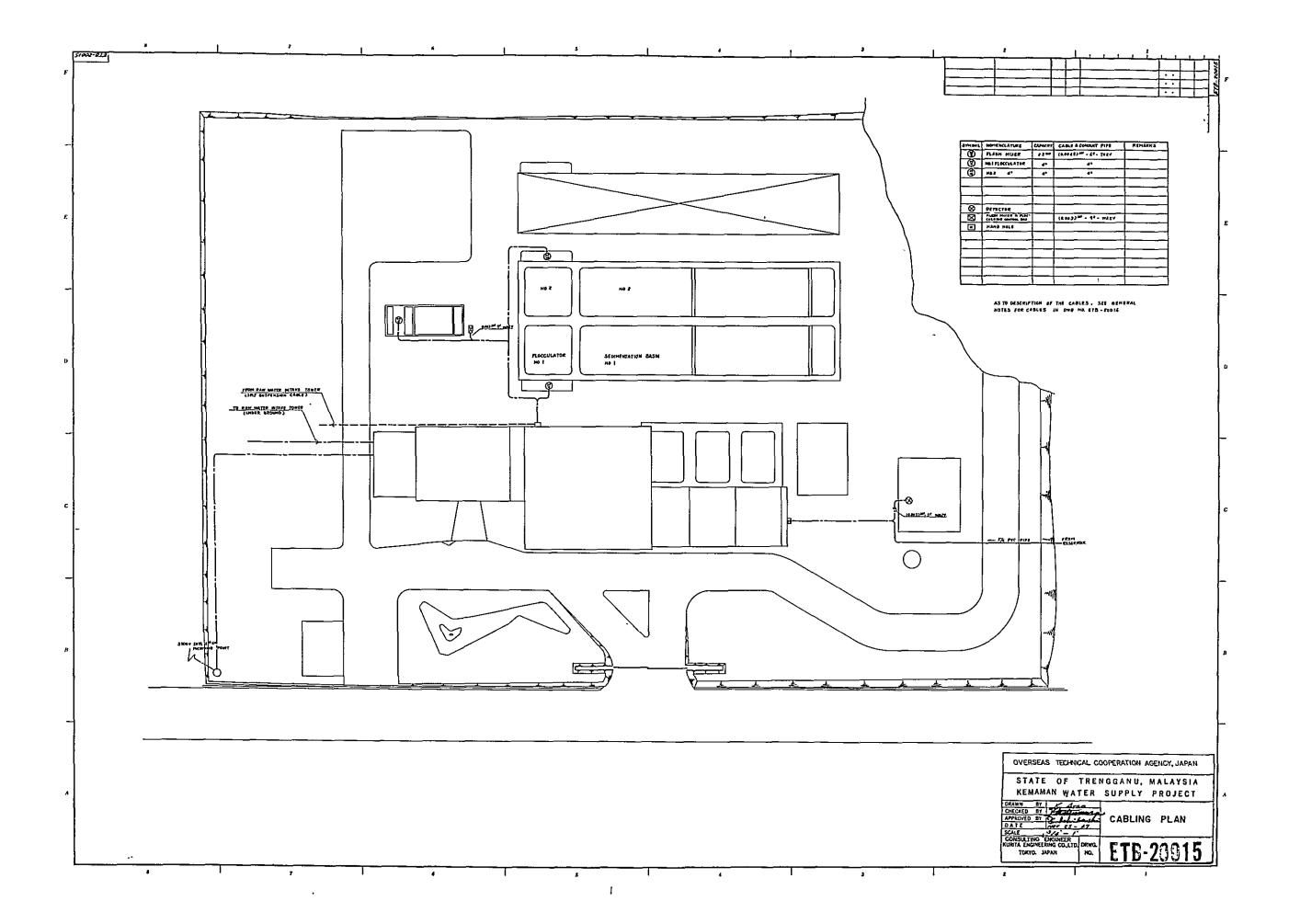


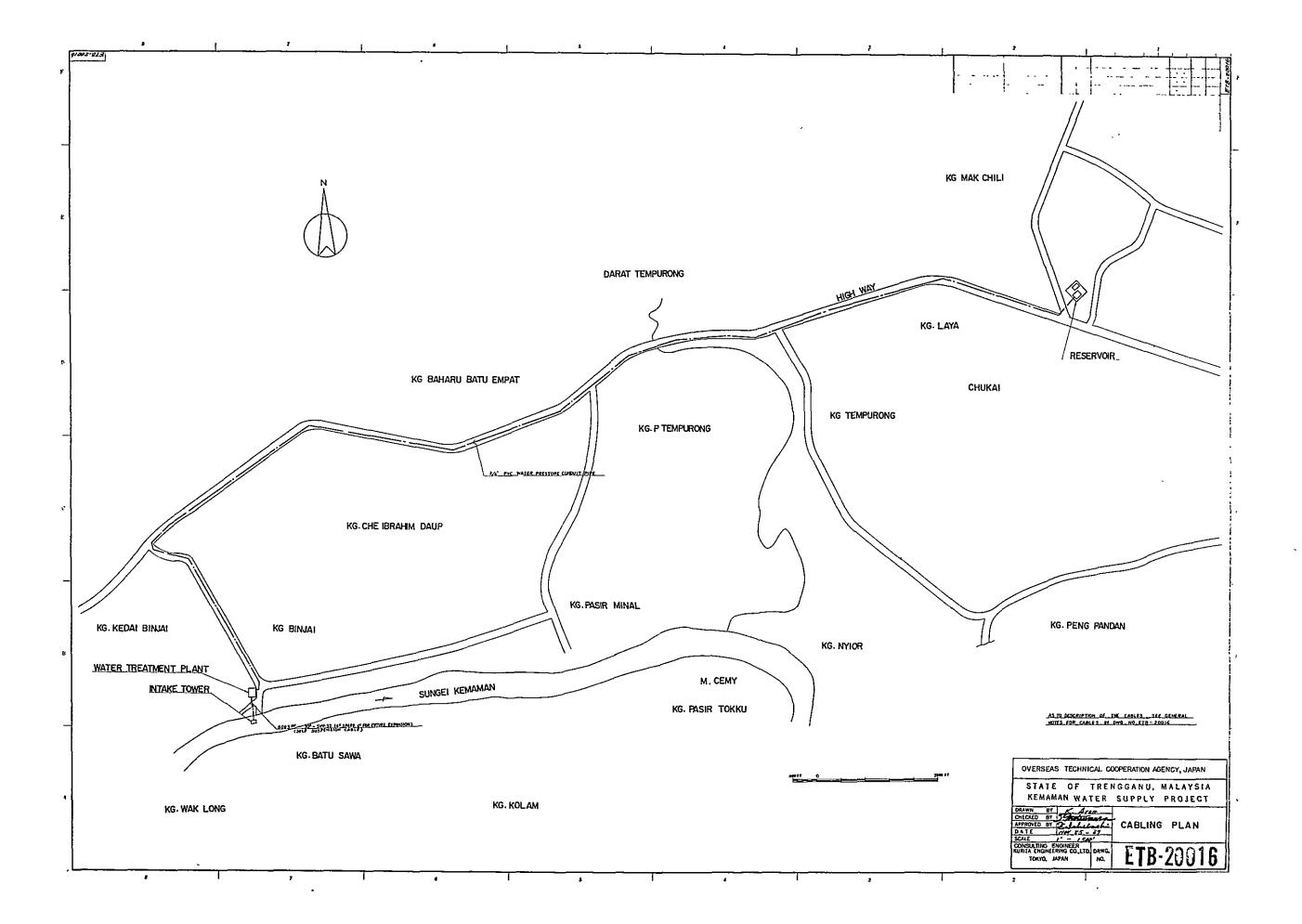












## SOIL PROFILE

LOCATION'	KEMAMAN			
BOREHOLE NO.	<u>B. I </u>			
BORING DEPTH (FT)	450			
DRILLING METHOD	HAND AUGER			
CROUND HEIGHT (ET)	11 795			

CHIEF ENGNIEER YOSHIO FURUYA

FOREMAN SIOW LEONG YOKE

	50:L			WATER		<del></del>		
DATE	SCALE (ET)	DEPTH	SYMBOL	CLASSIFICATION	COLOUR	LEVEL	DESCRIPTION	PRESUMED N - VALUE
SEPT	11.1.1.1	4.5		CLAY	YELLOWISH GREY		CONTAIN A LITTLE SAND	0 6-8 0 40 50
IO	 	90		CLAY WITH	GREY		COARSE SAND CONTENT ABOUT 20%	Q 8 - 12
	10-1	12.5		SANDY CLAY	YELLOWISH BROWN	i	MEDIUM RELATIVE DENSITY	910-15
		15 0	1	GRAVEL WITH SILT	YELLOWISH GREY	15 5	VERY LOOSE AND HIGH WATER CONTENT	3-6
U		18.5		COARSE SAND	YELLOWISH GREY		COARSE SAND DIAMETER <1/8" CONTAIN A LITTLE SILT	10-15
	20-	210		GRAVEL WITH SILT	BROWN		MEDIUM WATER CONTENT GRAVEL DIAMETER (1"	15
		225		CLAY	BROWNISH GREY YELLOWISH		GRAVEL DIAMETER ( 2"	8-12
	1	250		SILTY CLAY	GREY		SAND OF QUARTZ	10-15
	- Interest	295		CLAY WITH SAND	YELLOWISH GREY		SAND CONTENT ABOUT 20%	17
	30-1			SILT WITH SAND	GREY		COARSE QUARTZ SAND CONTENT ABOUT 30%	15-20
12	111111111			SANDY SILT	GREY		COARSE QUARTZ SAND. CONTAIN A LITTLE QUARTZ GRAVEL	20-30
13	40 111111	420		WEATHERD ROCK			SAMPLE COULD NOT SE	>50
	80 200 200 200 200 200 200 200 200 200 2	430						

