

BEAM SCHEDULE

ITEM	B1	B2	B3	B4			
SIZE	0.000-0.010 IN. ALL SPAN	0.000-0.010 IN. ALL SPAN	0.000-0.010 IN. MIDDLE SPAN	0.000-0.010 IN. SUPPORT CONTINUE.	0.000-0.010 IN. SUPPORT DO.	0.000-0.010 IN. MIDDLE SPAN	0.000-0.010 IN. SUPPORT CONTINUE.
	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010	0.010 0.005 0.010 0.010 0.010

B5		B6		B7		B8	
0.25x0.50 M.		0.25x0.50 M.		0.25x0.50 M.		0.25x0.50 M.	
SUPPORT DIA.	MODEL SPAIN	SUPPORT CONTINUE.	ALL SPAIN	SUPPORT DIA.	MODEL SPAIN	SUPPORT CONTINUE.	SUPPORT DIA.

	B0	B10	B11
SEAL SIZE	0.30x0.60 M.	0.30x0.70 M.	0.30x0.70 M.
SUPPORT DIA.			
MOOLE SPAN			
SUPPORT CONTINUE			
SUPPORT DIA.			
MOOLE SPAN			
SUPPORT CONTINUE			
ALL SPAN			

WALL	B12	B13	B14	B15
B22	0.20x1.00 M. ALL 9/16"	0.20x1.25 M. BASIC 9/16"	0.20x1.70 M. ALL 9/16"	0.20x2.00 M. ALL 9/16"
	SUPPORT DOK	SUPPORT CORNER		

NOTES

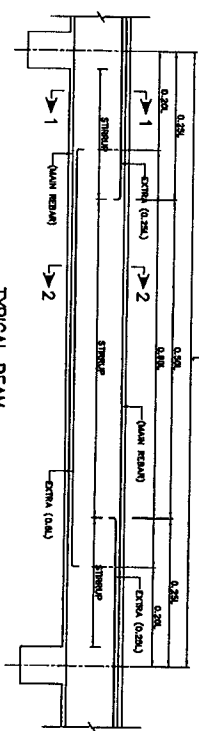
1. ALL DIMENSIONS AND ELEVATIONS (N.S.L.) ARE IN METERS
REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. MHS-CN-01

REFERENCE DRAWINGS :

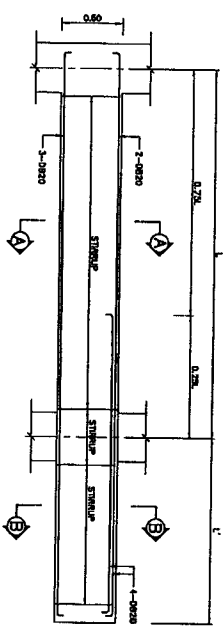
- | | |
|---|-----------|
| 1. POWERHOUSE KEY PLAN | MIS-PH-02 |
| 2. POWERHOUSE KEY PLAN AND SLAB REINFORCEMENT DETAILS | MIS-PH-03 |
| 3. POWERHOUSE BEAM REINFORCEMENT DETAILS SHEET 1/20 | MIS-PH-11 |
| 4. POWERHOUSE STAR REINFORCEMENT DETAILS | MIS-PH-13 |



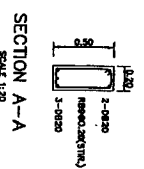
3					RECEIVED	DATE	INITIALS
2					RECORDED & INDEXED	5-7-68	
1					SUBJ.		
NO.	DATE	REQUEST	CHECKED	APPROVED	OFFICER	20-208	
DOSAGE						17/06/71	
					COLLECT NUMBER	198	
					ISSUED NO	MHS-PH-10	
					PAGE NO.	82 OF 131	



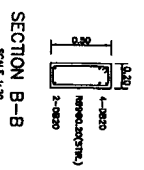
TYPICAL BEAM
SCALE 1:20



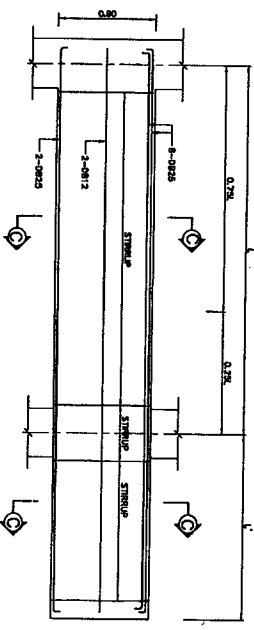
BEAM B16
SCALE 1:20



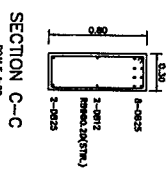
SECTION A-A
SCALE 1:20



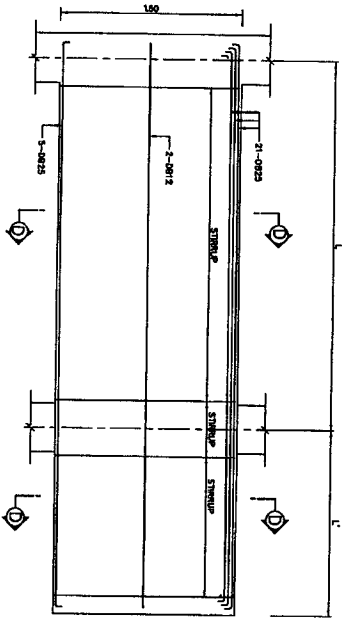
SECTION B-B
SCALE 1:20



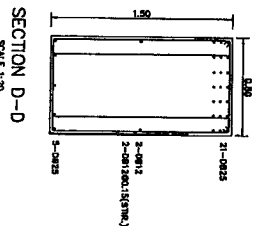
BEAM B17
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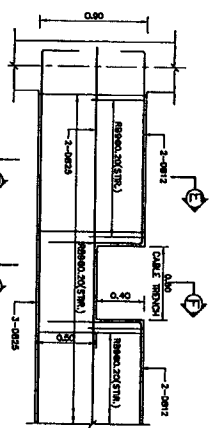
SECTION C-C
SCALE 1:20



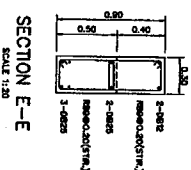
BEAM B18
SCALE 1:20



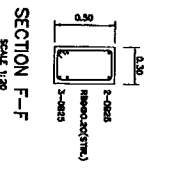
SECTION D-D
SCALE 1:20



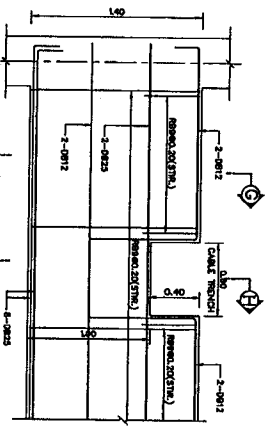
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SCALE 1:20



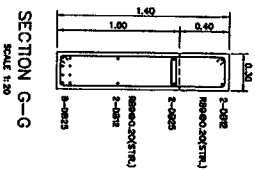
SECTION E-E
SCALE 1:20



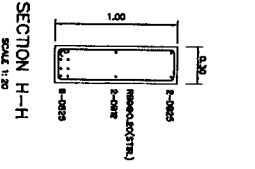
SECTION F-F
SCALE 1:20



BEAM B20
SCALE 1:20



SECTION G-G
SCALE 1:20



SECTION H-H
SCALE 1:20

- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS (A.S.L.) ARE IN METERS
 2. REINFORCEMENT BARS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. MHS-CH-01
- REFERENCE DRAWINGS :
1. POWERHOUSE KEY PLAN
 2. POWERHOUSE KEY PLAN AND SLAB REINFORCEMENT DETAILS
 3. POWERHOUSE BEAM REINFORCEMENT DETAILS SHEET 1/2
 4. POWERHOUSE STAIR REINFORCEMENT DETAILS

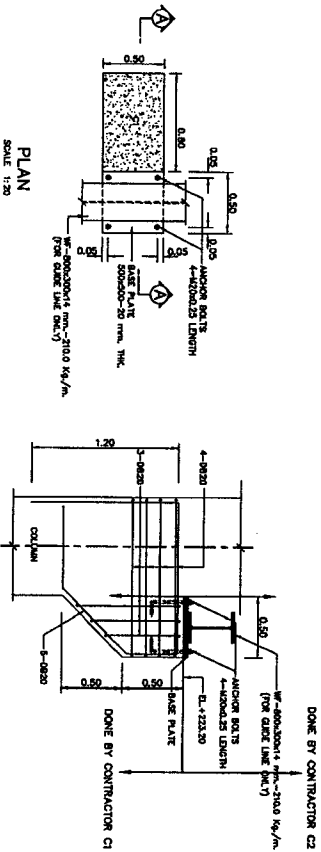


NO.	DATE	REVISIONS	CREATED	APPROVED	DATE
1					
2					

RECORD NAME: MAE HONG SON HYDROPOWER PROJECT
 DRAWING NO: MHS-PH-11
 SHEET NO: 83 OF 131

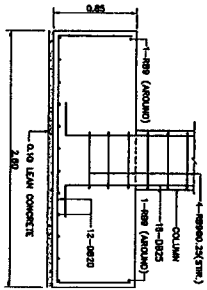
COLUMN SCHEDULE

COLUMNS	C1	C2	C3	C4	C5
ROOF DECK (E.L. +228.10, E.L. +230.70)					
ROOF DECK (E.L. +228.10, E.L. +230.70)					
ROOF DECK (E.L. +228.10, E.L. +230.70)					
SECOND FLOOR (E.L. +228.10)					
SECOND FLOOR (E.L. +228.10)					
GROUND FLOOR (E.L. +214.20)					
FOOTING (E.L. +214.20, E.L. +211.40)					

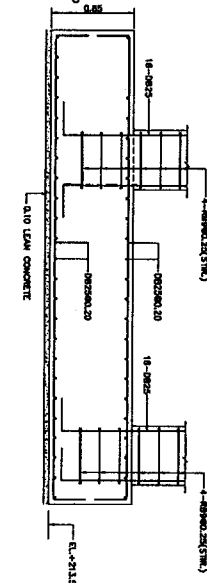


BRACKET

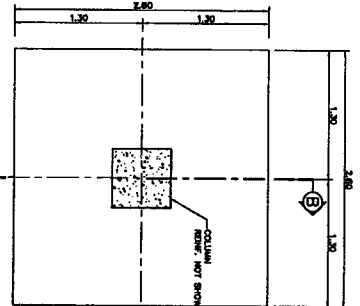
SECTION B-B



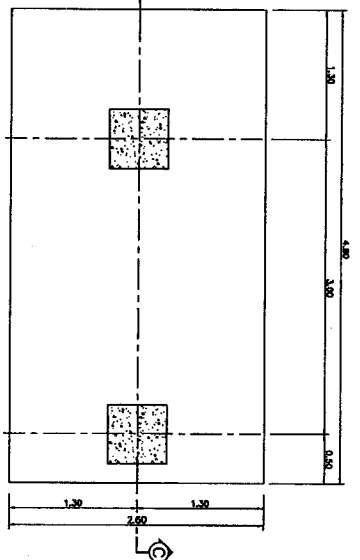
SECTION C-C



PLAN



PLAN



NOTES :

1. ALL DIMENSIONS AND ELEVATIONS (A.S.L.) ARE IN METERS.
2. REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
3. SYMBOL, ABREVIATIONS AND GENERAL NOTES SEE DRAWING NO. HPS-24-01.

REFERENCE DRAWINGS :

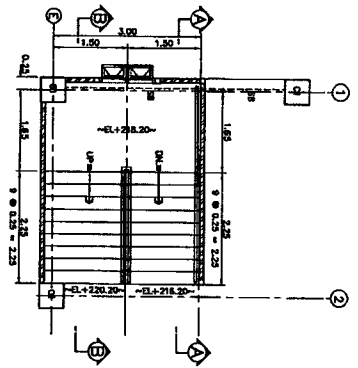
1. POWERHOUSE, KEY PLAN AND SLAB REINFORCEMENT DETAILS
2. POWERHOUSE, KEY PLAN AND SLAB REINFORCEMENT DETAILS
3. POWERHOUSE, SLAB REINFORCEMENT DETAILS

HPS-24-08
HPS-24-09
HPS-24-13

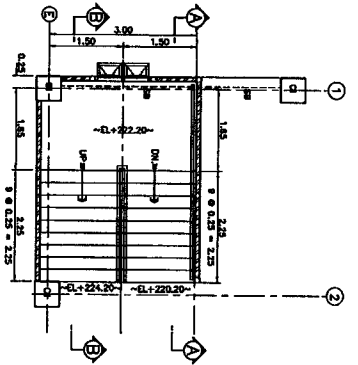
NO.	DATE	REVISIONS	DESIGNED	APPROVED
1				
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MINISTRY OF ENERGY
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
MAE HONG SON HYDROPOWER PROJECT
CIVIL WORKS
POWERHOUSE
COLUMN, BRACKET AND FOOTING REINFORCEMENT DETAILS

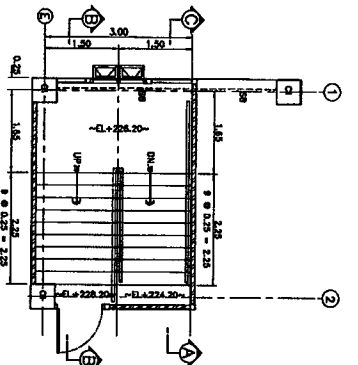
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 27/06/13
DRAWING NO.: HPS-PH-12
SHEET NO.: 44 OF 131



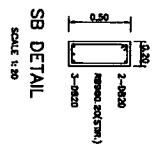
ST-1 PLAN
SCALE 1:50



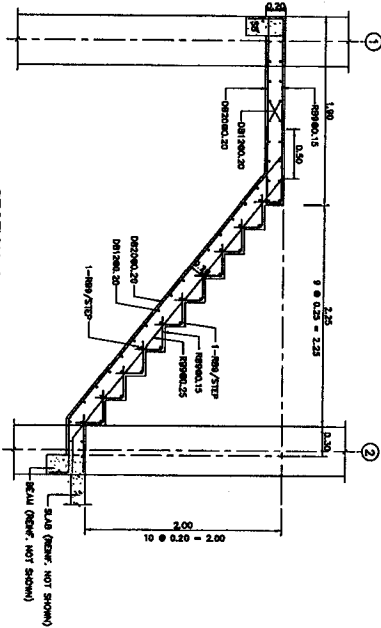
ST-2 PLAN
SCALE 1:50



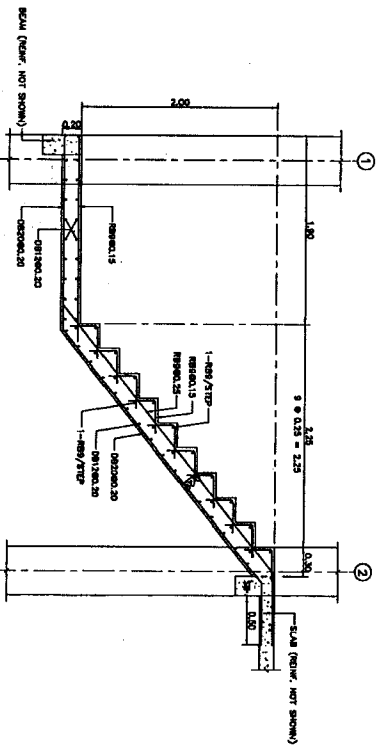
ST-3 PLAN
SCALE 1:50



SB DETAIL
SCALE 1:50



SECTION A-A
SCALE 1:25

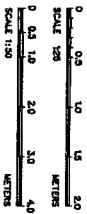


SECTION B-B
SCALE 1:25

- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS.
 2. REINFORCEMENT BARS ARE IN MILLIMETER, UNLESS OTHERWISE SHOWN.
 3. SYMBOLS, ABBREVIATIONS AND SPECIAL NOTES SEE DWG. NO. WMS-04-01.

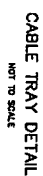
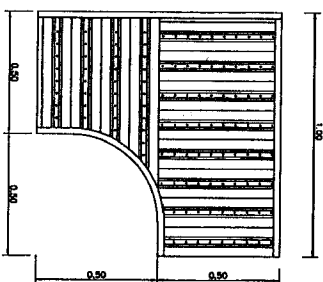
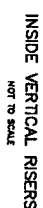
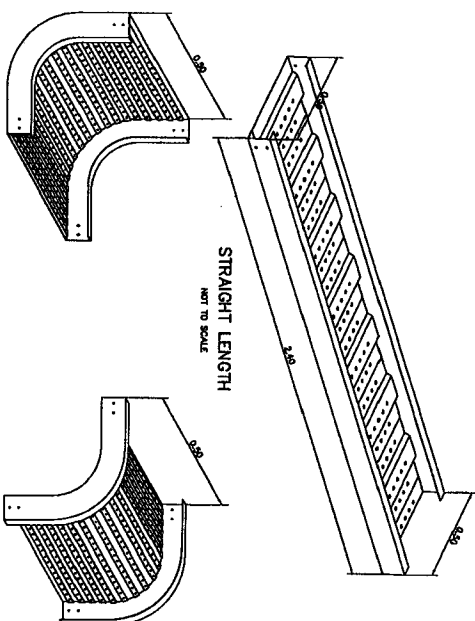
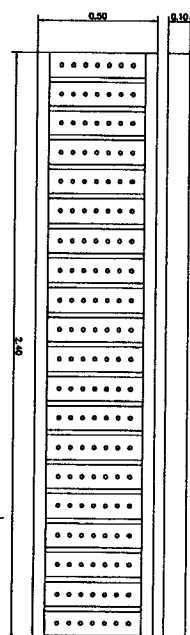
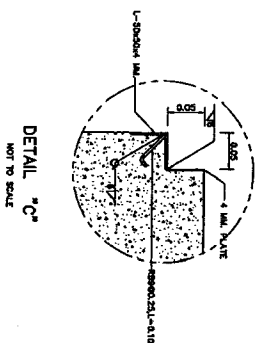
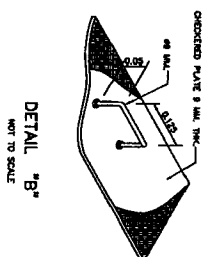
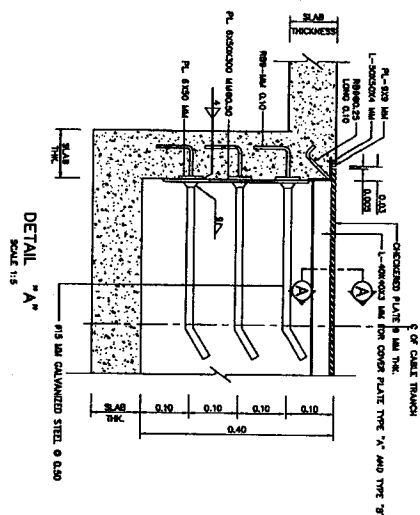
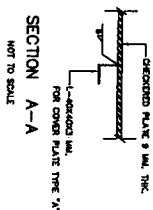
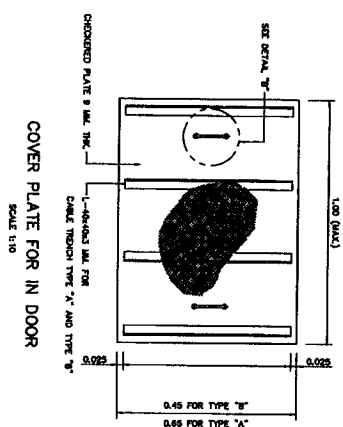
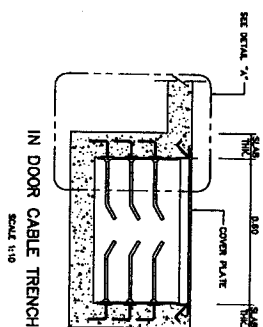
- REFERENCE DRAWINGS :
1. POWERHOUSE KEY PLAN
 2. POWERHOUSE KEY PLAN AND SLAB REINFORCEMENT DETAILS
 3. POWERHOUSE BEAM REINFORCEMENT DETAILS SHEET 2/2
 4. POWERHOUSE BEAM REINFORCEMENT DETAILS SHEET 3/2
 5. POWERHOUSE COLUMN, BRACKET AND FOOTING REINFORCEMENT DETAILS

WMS-PH-06
WMS-PH-08
WMS-PH-10
WMS-PH-11
WMS-PH-12



NO.	DATE	REVISIONS	CHECKED	APPROVED
1				
2				

MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT		CIVIL WORKS POWERHOUSE STAIR REINFORCEMENT DETAILS	
DESIGNED BY	MAE-PH-06	CHECKED BY	MAE-PH-10
DRAWN BY	MAE-PH-11	APPROVED BY	MAE-PH-12
DATE	27/09/11	DATE	27/09/11
PROJECT NUMBER		SHEET NO.	
WMS-PH-13		65 OF 131	



3			
2			
1			
NO	DATE	MEMORANDUM	OFFICER
CONSULTANTS		BUREAU	

KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY					
MAE HONG SON HYDROPOWER PROJECT					
CIVIL WORKS					
POWDERHOUSE					
CABLE TRENCH AND CABLE TRAY DETAILS					
P. POWER COMPANY'S CO., LTD.					
STANDARD TOTAL NO. SHEETS	NO. SHEETS	SHEET NO.			
DRAWN BY	<i>[Signature]</i>	CHECKED BY			
CALCULATED	<i>[Signature]</i>	REVIEWED BY			
DATE	27/09/83	APPROVED BY			
PROJECT NUMBER	MHS-PH-14	DRAWING NO.			
DATE		SHEET NO.			
		SS OF 131			

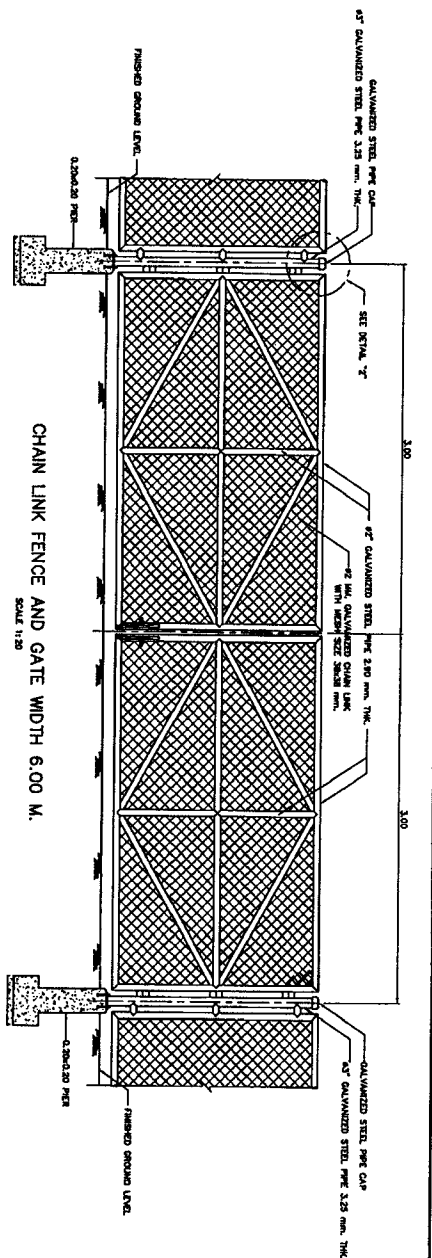
NOTES :

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS. NONCONFORMANT DIMS ARE IN MILLIMETERS. PLACES OTHERWISE SHOWN.
2. SYMBOL, IDENTIFICATIONS AND GENERAL NOTES SEE DMS. NO. UT-01-01.
3. STEEL CORNER FOR IN DOOR TRIMSH SHALL BE COATED WITH MOIST RESISTING TYPE COAT. FOR EXPOSURE.

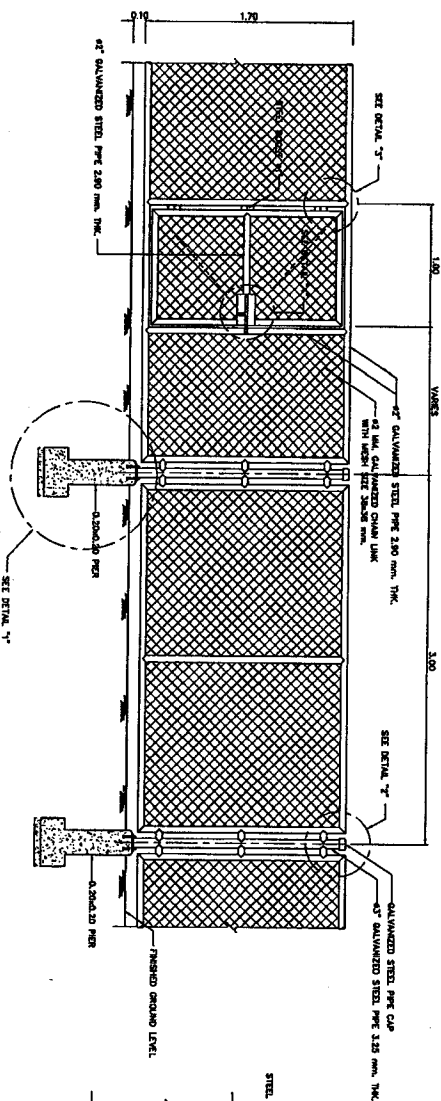
REFERENCE DRAWINGS :

UT-01-02
UT-01-02

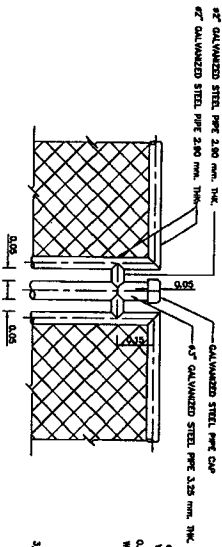
MATERIALS: SHEET STEEL 1.5MM.
SURFACE FINISH : POWDER
COATED IN TEXTURED RAL
7012 OR HOT-DIP GALVANIZED
(UPON YOUR REQUIREMENTS)
ASSEMBLY : WELDING METHOD
APPLICATION : USING FOR INDOOR & OUTDOOR INSTALLATION WORKS



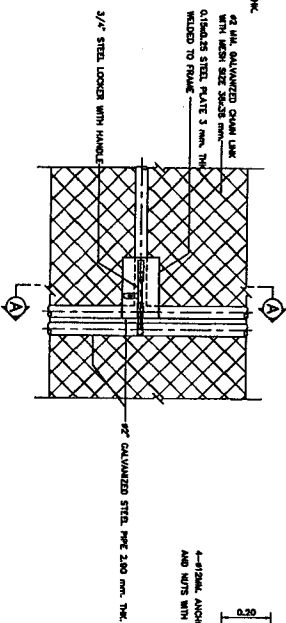
CHAIN LINK FENCE AND GATE WIDTH 6.00 M.
SCALE 1:10



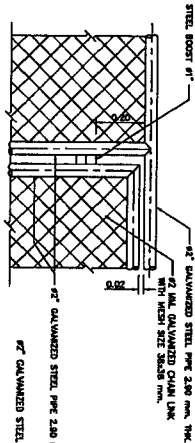
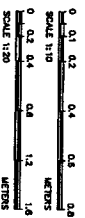
CHAIN LINK FENCE AND GATE WIDTH 1.00 M.
SCALE 1:10



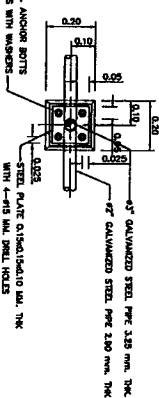
DETAIL "2"
SCALE 1:10



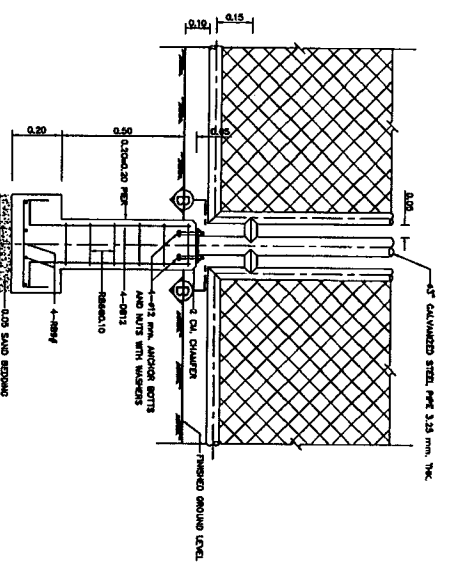
DETAIL "4"
SCALE 1:10



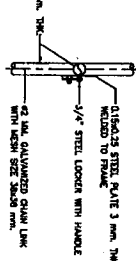
DETAIL "3"
SCALE 1:10



SECTION B-B
SCALE 1:10



DETAIL "1"
SCALE 1:10



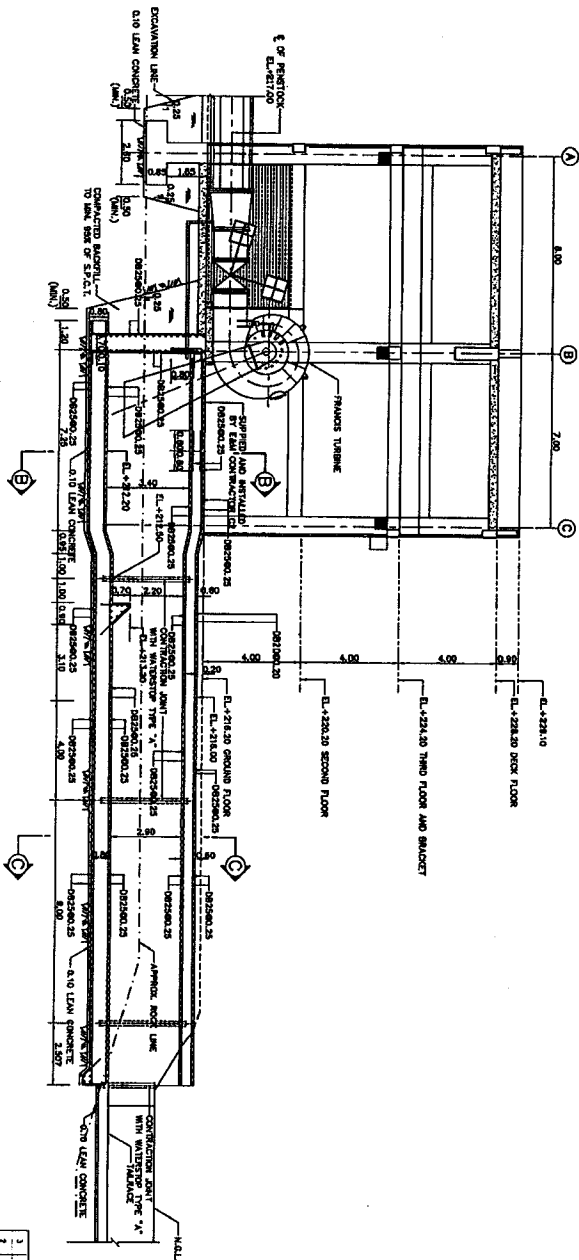
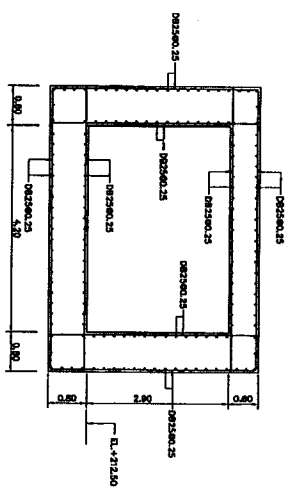
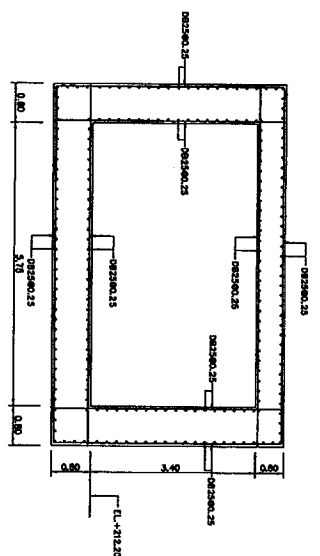
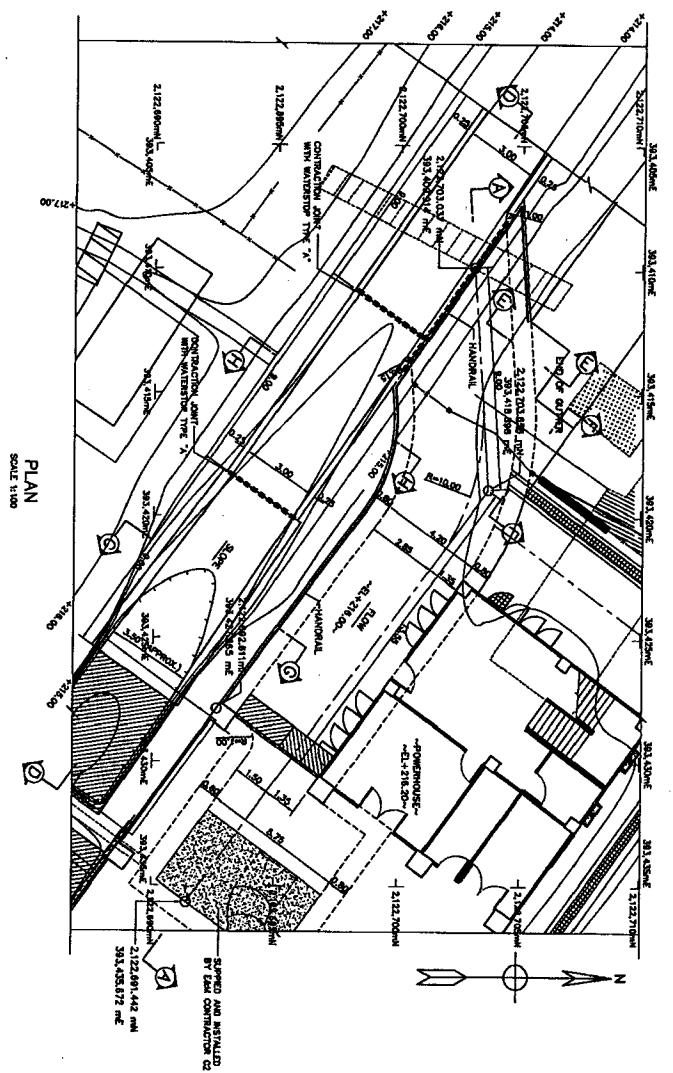
SECTION A-A
SCALE 1:10

- NOTES:
1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. CHAIN LINK SHALL BE GALVANIZED AS SPECIFIED BY THE S&E.
- REFERENCE DRAWINGS:
1. POWERHOUSE, LAY-OUT

WHS-PH-01

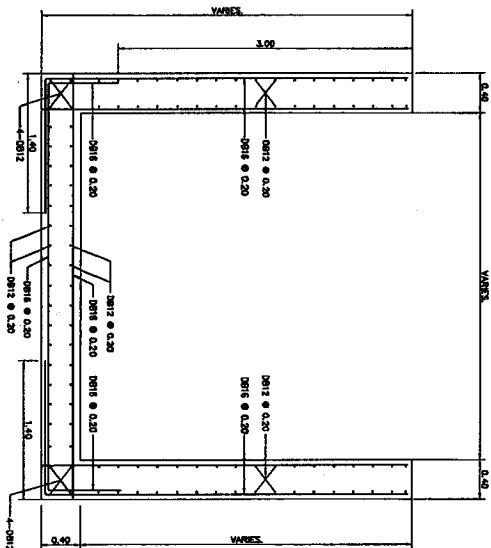
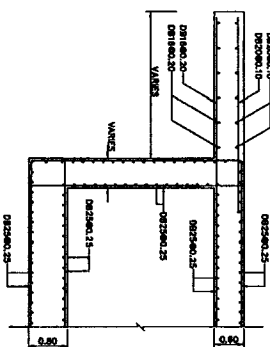
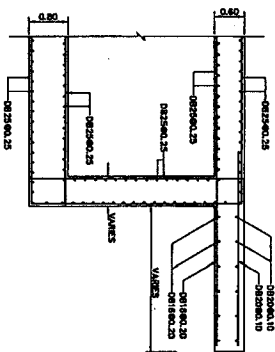
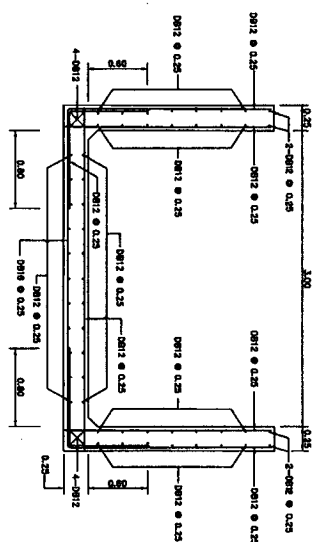
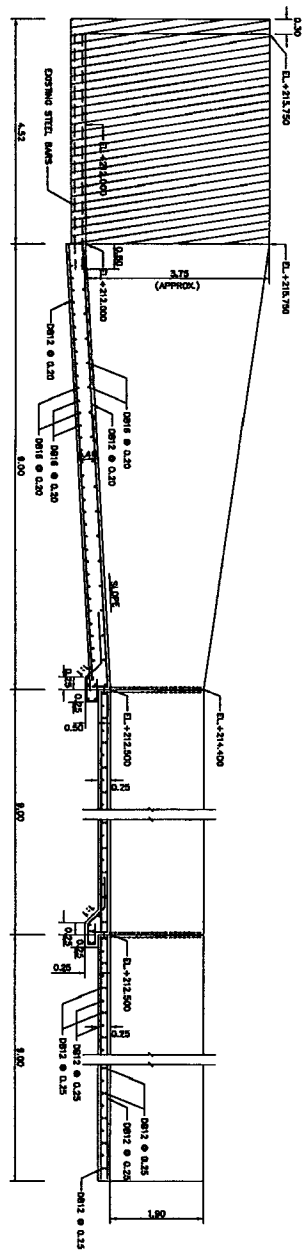
NO.	DATE	REVISIONS	DESIGNED	DRAWN	CHECKED	APPROVED	SIZE
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DEPARTMENT OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS POWERHOUSE CHAIN LINK FENCE AND GATE WIDTH 1.00 M.	
DESIGNED BY DRAWN BY CHECKED BY REVISIONS DATE	APPROVED BY DATE
PROJECT NO. SHEET NO.	SHEET NO. 18 OF 128



CORRECTIONS		PRISON	
NO.	REVISIONS	CHECKED	APPROVED
1			
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KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS POWERHOUSE	REMEDIATION DETAILS
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
PROJECT NUMBER: 18-01-18 DATE: 18-01-18	PROJECT NAME: MAE HONG SON LOCATION: MAE HONG SON SCALE: 1:1000 DRAWN BY: 18-01-18 CHECKED BY: 18-01-18 APPROVED BY: 18-01-18



NOTES :

1. ALL DIMENSIONS AND ELEVATIONS (A.S.L.) ARE IN METERS

REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.

2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE OUR. NO. W-5-CR-01.

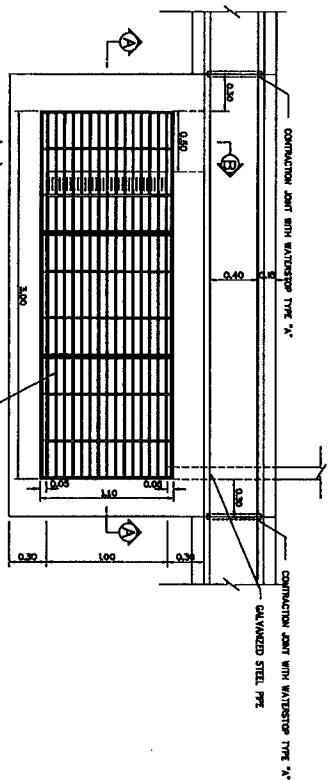
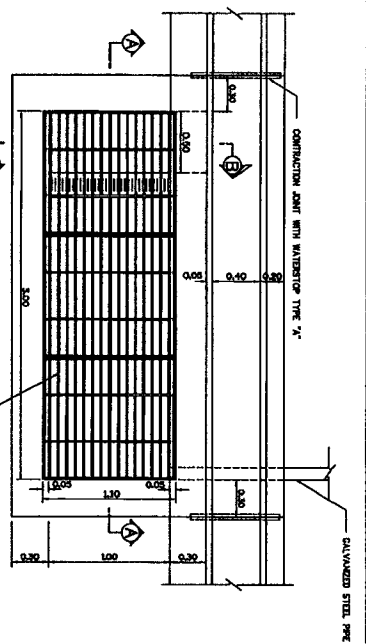
REFERENCE DRAWINGS :
1. POWER-HOUSE, REINFORCEMENT DETAIL'S (SHEET 1/4)

MHS-PH-17



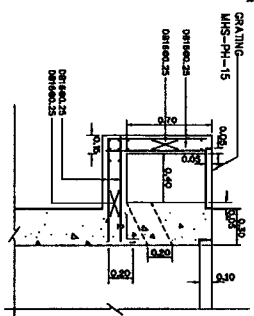
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NO	DATE	RECEIVED	APPROVED
COMPLAINTS		DATE	

KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		MAE HONG SON HYDROPOWER PROJECT CIVIL WORKS POWERHOUSE RAINFORCEMENT DETAILS	
DRAWING NO. <u>MAEHS-047-2448</u> DATE <u>27/7/71</u> PROJECT NAME <u>MAE HONG SON</u> SHEET NO. <u>131</u>		NO. PARTS COMBINATION NO. <u>1</u> DRAWING REVISION DEVELOPMENT AND EFFICIENCY	
DESIGNED BY <u>MAEHS-047-2448</u> CHECKED BY <u>MAEHS-047-2448</u> DATE <u>27/7/71</u> PROJECT NAME <u>MAE HONG SON</u> SHEET NO. <u>131</u>		DRAWING REVISION DEVELOPMENT AND EFFICIENCY	

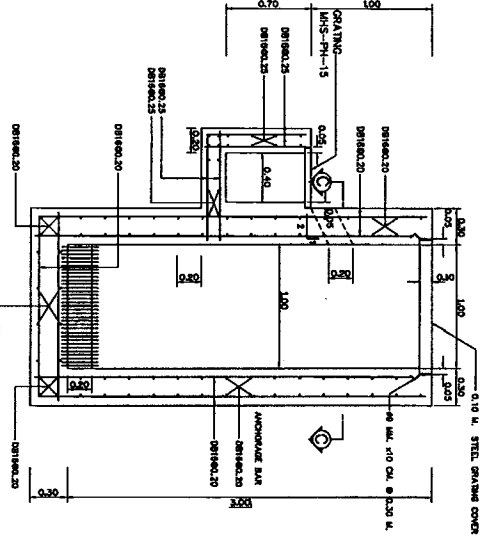


PLAN OF SUMP "1"
SCALE 1:20

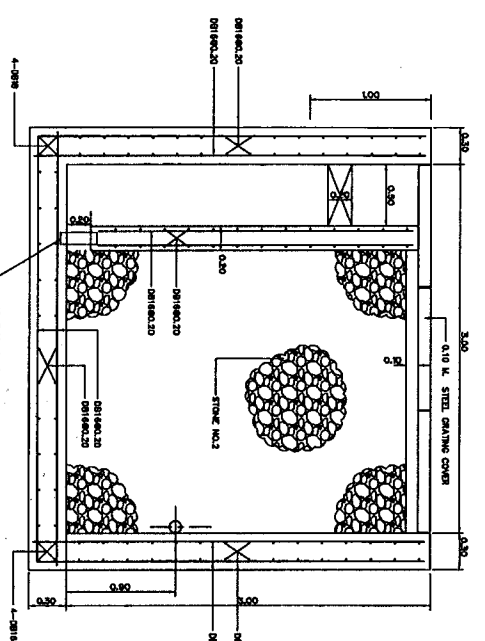
PLAN OF SUMP "2"
SCALE 1:20



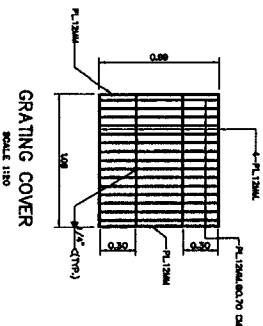
SECTION B-B (SUMP "2")
SCALE 1:20



SECTION B-B
SCALE 1:20



SECTION A-A
SCALE 1:20



GRATING COVER
SCALE 1:20

- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS (N.S.D.) ARE IN METERS.
 2. REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
 3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DPM, NO. MHS-04-01.
 4. STRUCTURAL STEEL AND FLAT PLATE STEEL SHALL BE PAINTED WITH RUST-CLEAN PAINT OR EQUIVALENT THREE AND WITH OIL PAINT ONCE.

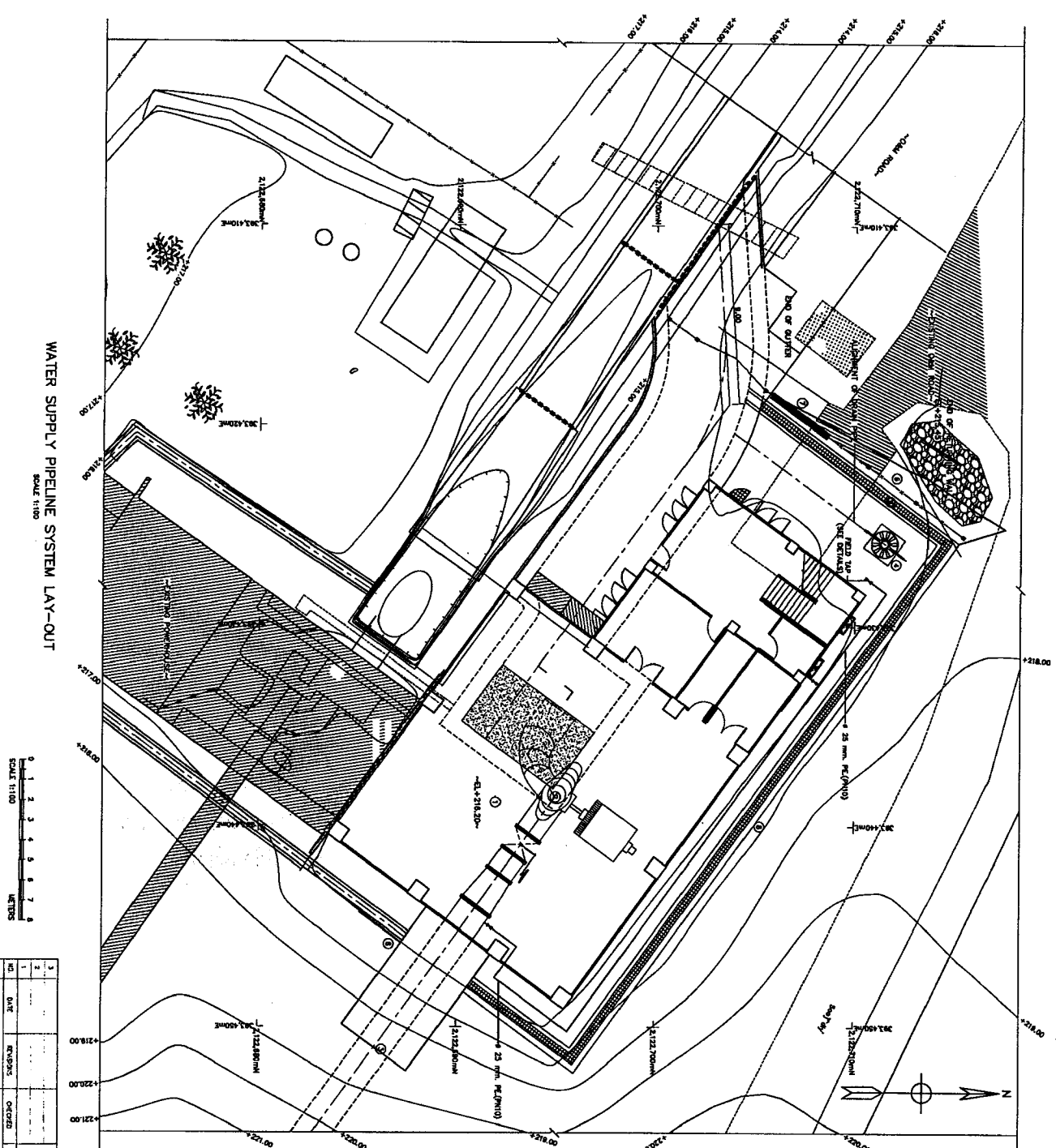
REFERENCE DRAWINGS :

MHS-PH-01

POWERHOUSE, LAY-OUT

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KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
MAE HONG SON HYDROPOWER PROJECT CIVIL WORKS POWERHOUSE REINFORCEMENT DETAILS	
DESIGNED BY DRAWN BY CHECKED BY APPROVED BY DATE	REVIEWED BY DATE MHS-PH-20 102 OF 131

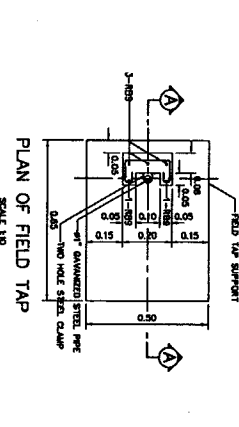
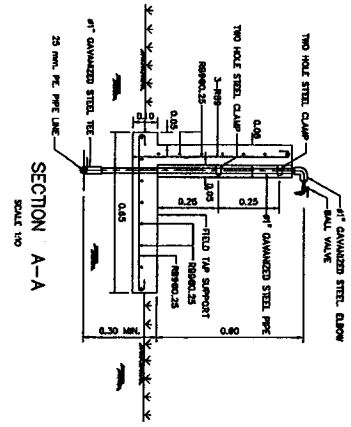


WATER SUPPLY PIPELINE SYSTEM LAY-OUT
SCALE 1:100



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KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS POWERHOUSE	
WATER SUPPLY PIPELINE SYSTEM LAY-OUT AND DETAILS	
DESIGNED BY: <i>[Signature]</i> DRAWN BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: 17/09/21	APPROVED BY: <i>[Signature]</i> DATE: 17/09/21
PROJECT NUMBER: <i>[Number]</i> SHEET NO. 13	SHEET NO. 13



- LEGENDS:
- ① POWERHOUSE
 - ② FRANCIS TURBINE
 - ③ PENSTOCK
 - ④ SERVICE TANK
 - ⑤ GATE
 - ⑥ CHAIN LINK FENCE
 - ⑦ SCHEDULE
 - ⑧ RETURNING WALL
 - ⑨ DUTTER
 - EXISTING STRUCTURE

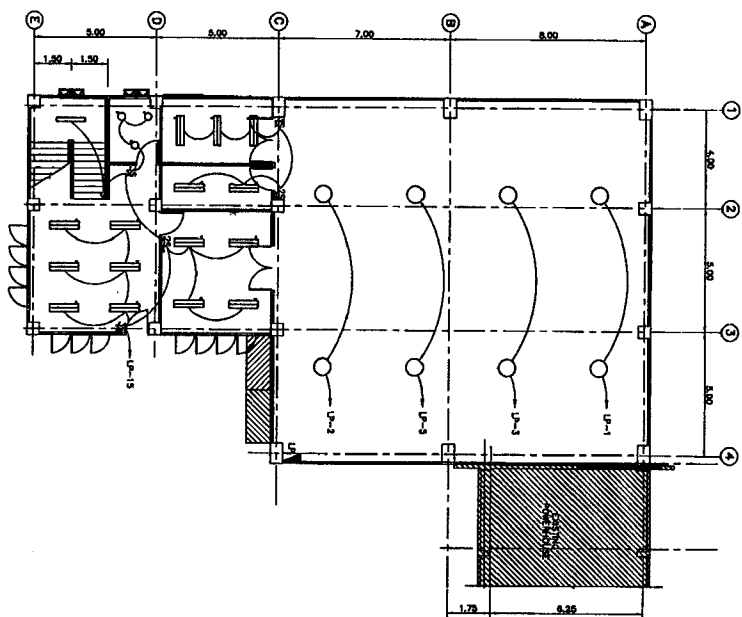
NOTES:

- ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
- SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE P.M.S. NO. 100-01-01.

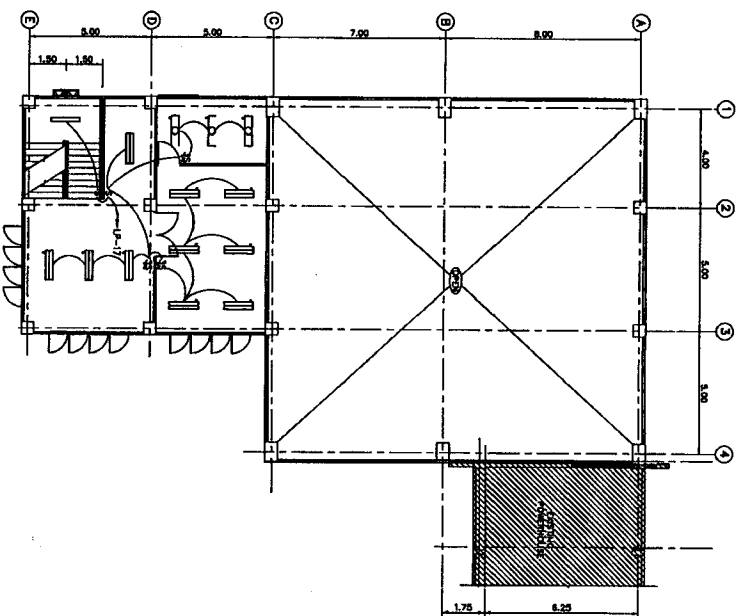
REFERENCE DRAWINGS:

- POWERHOUSE, LAY-OUT

MAE-HS-01



GROUND FLOOR PLAN (EL.+216.20)
SCALE 1:100



SECOND FLOOR PLAN (EL.+220.20)
SCALE 1:100

LEGENDS :

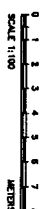
- 2x4 W. TL-8 FLUORESCENT LAMP (HANGING OR CEILING TYPE) WITH ELECTRONIC BALLASTS AT SWITCH "2"
- 2x4 W. TL-8 FLUORESCENT LAMP (CORROSION PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "2"
- 1x4 W. TL-8 FLUORESCENT LAMP (CORROSION PROOF) WITH ELECTRONIC BALLASTS
- 1x4 W. TL-8 FLUORESCENT LAMP (WALL TYPE, OUTDOOR IP54)
- 35-WATT SWITCH FOR SWITCH "1" TO "2"
- 2-WAY SWITCH
- SINGLE RECEPTACLE WITH GROUND, 15 A, 220 VAC
- 20 W. COMPACT FLUORESCENT
- EXHAUST FAN 12"
- OUTDOOR BOLLARD TYPE WITH 20 W. COMPACT FLUORESCENT

- LOAD PANEL, 3 PHASE (18 CIRCUITS) WITH MAIN CIRCUIT BREAKER
- LEADING CONTROL PANEL
- 17W. CABLE W. OUT CIRCUIT SURFACE MOUNTING INSTALLATION FOR LIGHTING CIRCUIT
- 200V RECEPTACLE 2P+N+E 32 A, 400 VAC
- 200V RECEPTACLE WITH GROUND, 15 A, 220 VAC
- HIGH BAY FUTURE 1x400 W. HIGH PRESSURE SODIUM
- HIGH BAY FUTURE 1x400 W. HIGH PRESSURE SODIUM
- EMERGENCY LIGHTING 2x40 W. FLUORESCENT W/SEALD LEAD ACID BATTERY BACKUP 2 HOURS
- AIR CONDITIONING, SPLIT TYPE

REFERENCE DRAWINGS :

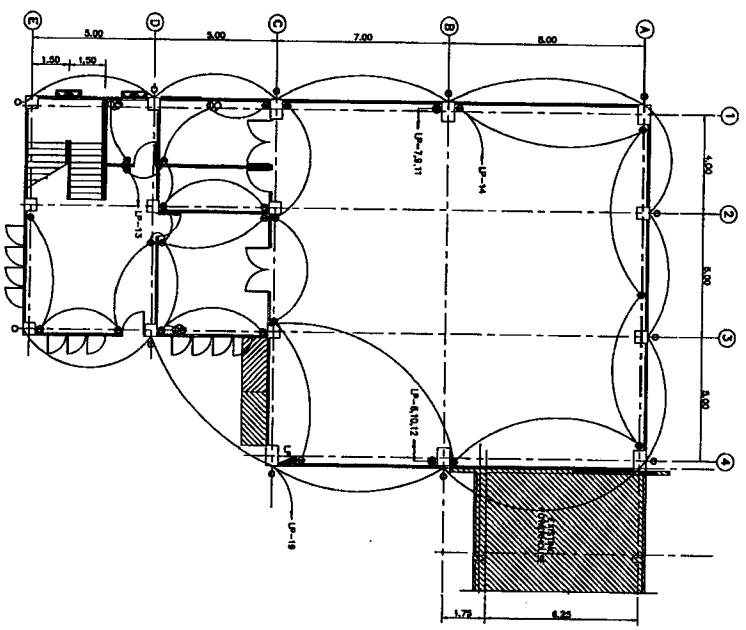
- POWERHOUSE, PLANS (SHEET 1/2)
- POWERHOUSE, POWER ELECTRIC AND LIGHTING SYSTEMS (SHEET 2/2)
- POWERHOUSE, BUILDING SYSTEM AND LAND SCHEME

MHS-PH-02
MHS-PH-23
MHS-PH-28

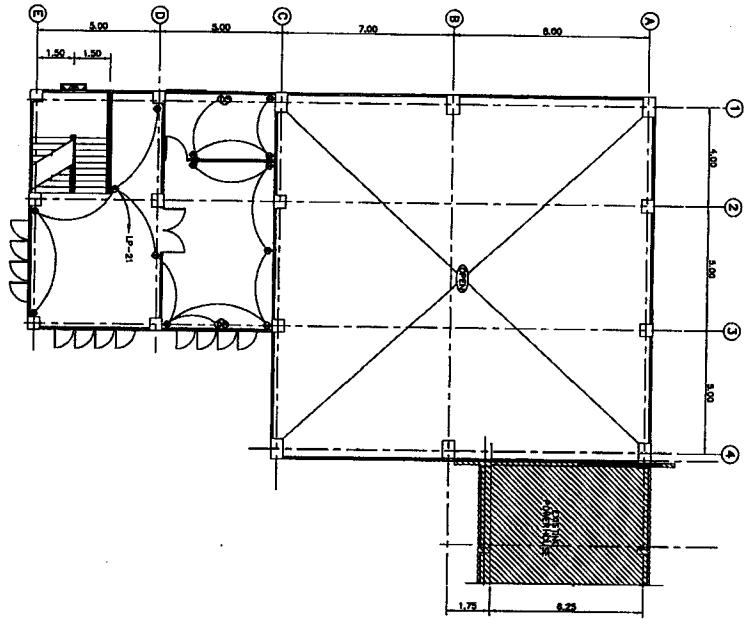


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KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT CIVIL WORKS POWERHOUSE POWER ELECTRIC AND LIGHTING SYSTEMS		DEPARTMENT OF ALTERNATIVE ENERGY MAE HONG SON HYDROPOWER PROJECT POWERHOUSE POWER ELECTRIC AND LIGHTING SYSTEMS DRAWING NO. MHS-PH-22 SHEET NO. 1/31
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GROUND FLOOR PLAN (EL.+216.20)
SCALE 1:100

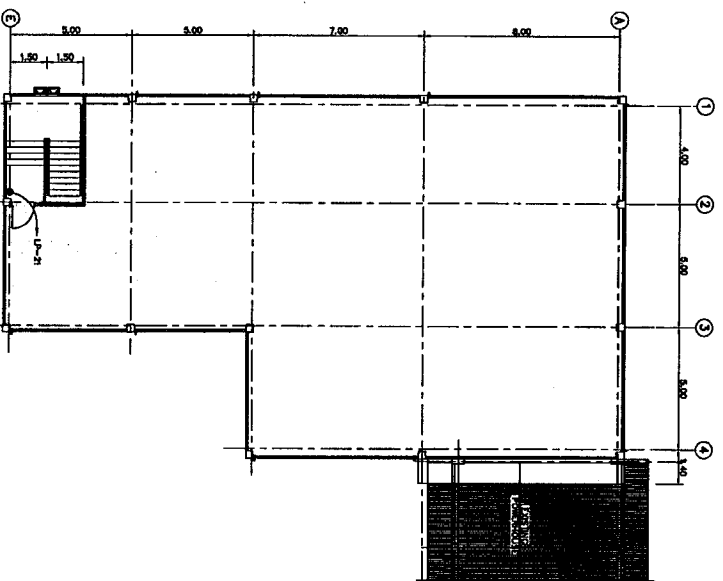


SECOND FLOOR PLAN (EL.+220.20)
SCALE 1:100

- LEGENDS :
- 2x28 W. L-3 FLUORESCENT LAMP (HANGING OR CEILING TYPE) WITH ELECTRONIC BALLASTS AT SWITCH "a"
 - 2x28 W. L-3 FLUORESCENT LAMP (COMBINATION PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "a"
 - 1x28 W. L-3 FLUORESCENT LAMP (COMBINATION PROOF) WITH ELECTRONIC BALLASTS
 - 1x28 W. L-3 FLUORESCENT LAMP (HALL TYPE, OUTDOOR PROOF)
 - 3x-2x SWITCH "a" SETS FOR SWITCH "a" TO "a"
 - 5" TWO-WAY SWITCH
 - SWITCH RECEPTACLE WITH GROUND, 10 A, 220 VAC.
 - 20 W. COMPACT FLUORESCENT
 - EXHAUST FAN 12"
 - OUTDOOR BALLAST TYPE WITH 20 W. COMPACT FLUORESCENT

- REFERENCE DRAWINGS :
1. POWERHOUSE PLANS (SHEET 1/2)
 2. POWERHOUSE POWER ELECTRICAL AND LIGHTING SYSTEMS (SHEET 4/8)
 3. POWERHOUSE, GROUNDING SYSTEM AND LOAD SCHEDULE
- MAE-HONG-22
MAE-HONG-25
MAE-HONG-28
- MAE HONG SON HYDROPOWER PROJECT
- CIVIL WORKS
POWERHOUSE
- DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
- POWER ELECTRICAL AND LIGHTING SYSTEMS
- NO. FROM CONSULTING OFFICE
- RECEIVED
DATE
BY
PROJECT NUMBER
- 1/25/03
MAE-HONG-24
SHEET NO. 131



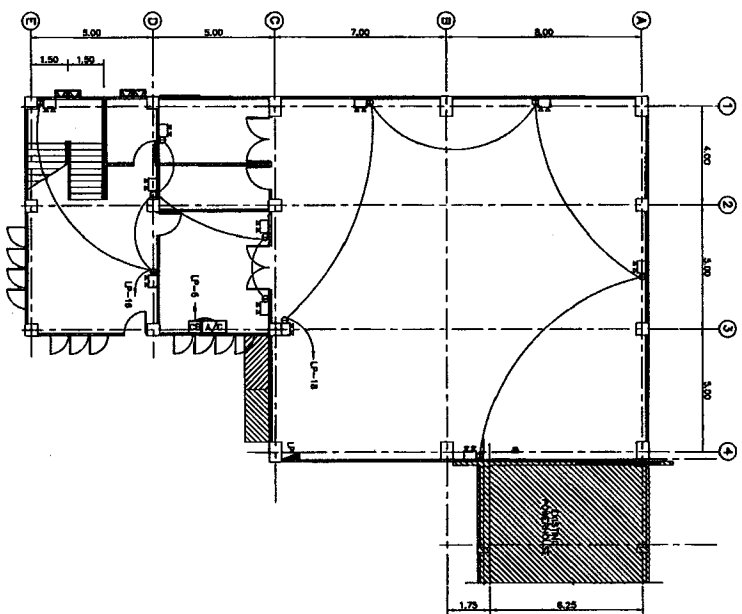


ROOF DECK PLAN (EL.+226.20)
SCALE 1:100

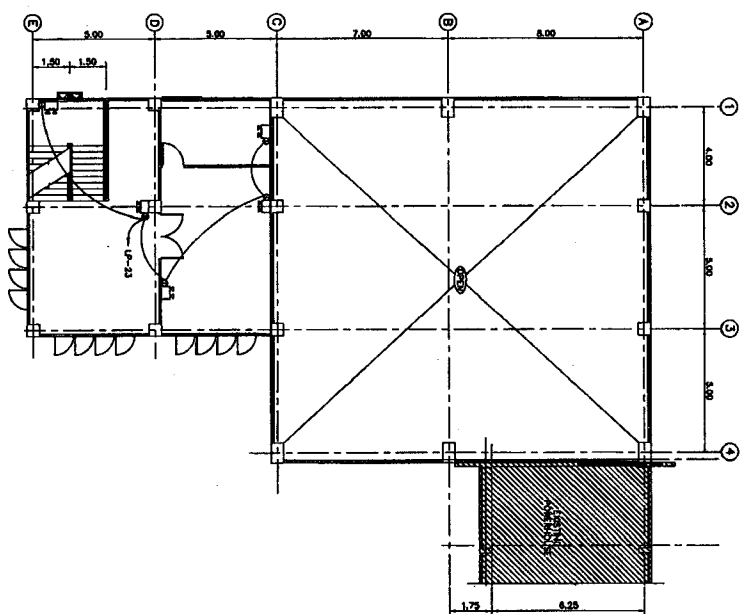
1. POWERHOUSE, PLANS (SHEET 2/2)
2. POWERHOUSE, POWER ELECTRIC AND LIGHTING SYSTEMS (SHEET 3/3)
3. POWERHOUSE, GROUNDING SYSTEM AND LOAD SCHEDULE

[illegible]

MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		MAE HONG SON HYDROPOWER PROJECT CIVIL WORKS POWERHOUSE	
POWER ELECTRIC AND LIGHTING SYSTEMS POWER CABLE, WIRE CABLE		SEPARATION OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>
ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>	ORDER NO. <i>1111111111</i> QUANTITY <i>577</i> UNIT <i>meter</i> DATE <i>27/07/13</i>



GROUND FLOOR PLAN (EL.+216.20)
SCALE 1:100



SECOND FLOOR PLAN (EL.+220.20)
SCALE 1/100

- LEGENDS :
- ☰ 200 W. T-5 FLUORESCENT LAMP (VARIABLE OR DIMMABLE TYPE) WITH ELECTRONIC BALLASTS AT SWITCH "A"
 - ☷ 300 W. T-5 FLUORESCENT LAMP (COMPACT PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "A"
 - ☶ 100 W. T-5 FLUORESCENT LAMP (COMPACT PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "A"
 - ☶ 100 W. T-5 FLUORESCENT LAMP (COMPACT PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "B" SITS FOR OUTDOOR USE
 - ☶ 100 W. T-5 FLUORESCENT LAMP (COMPACT PROOF) WITH ELECTRONIC BALLASTS AT SWITCH "C" SITS FOR OUTDOOR USE
 - ☶ TWO-WAY SWITCH
 - ☶ SWITCH RECEPTACLE WITH GROUND, 10 A, 250 VAC.
 - 20 W. COMPACT FLUORESCENT
 - DIMMABLE 75W 12"
 - ☶ OUTDOOR BALLAST TYPE WITH 20 W. COMPACT FLUORESCENT

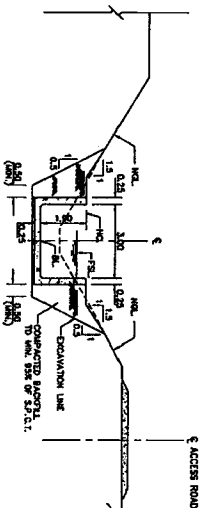
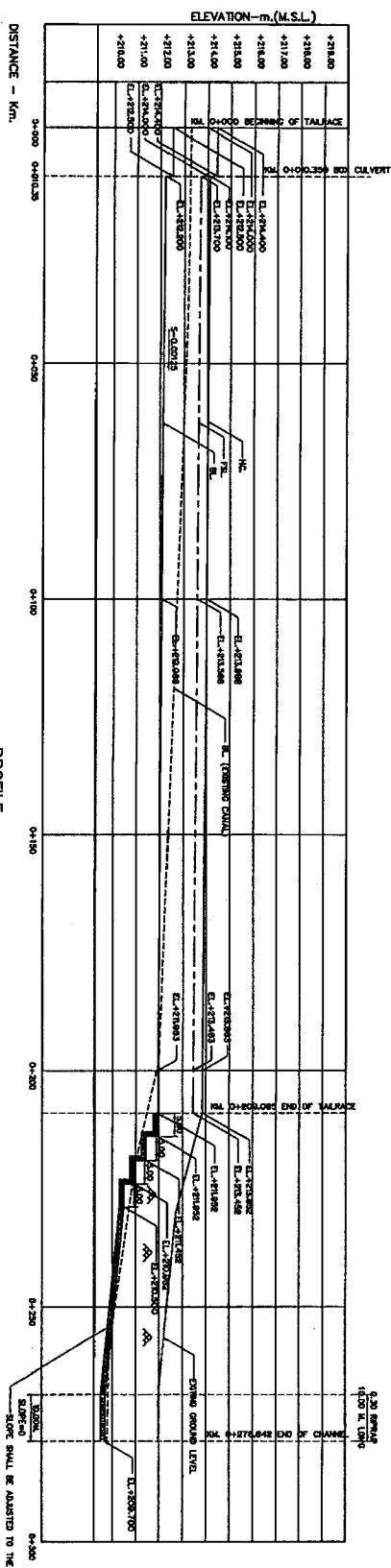
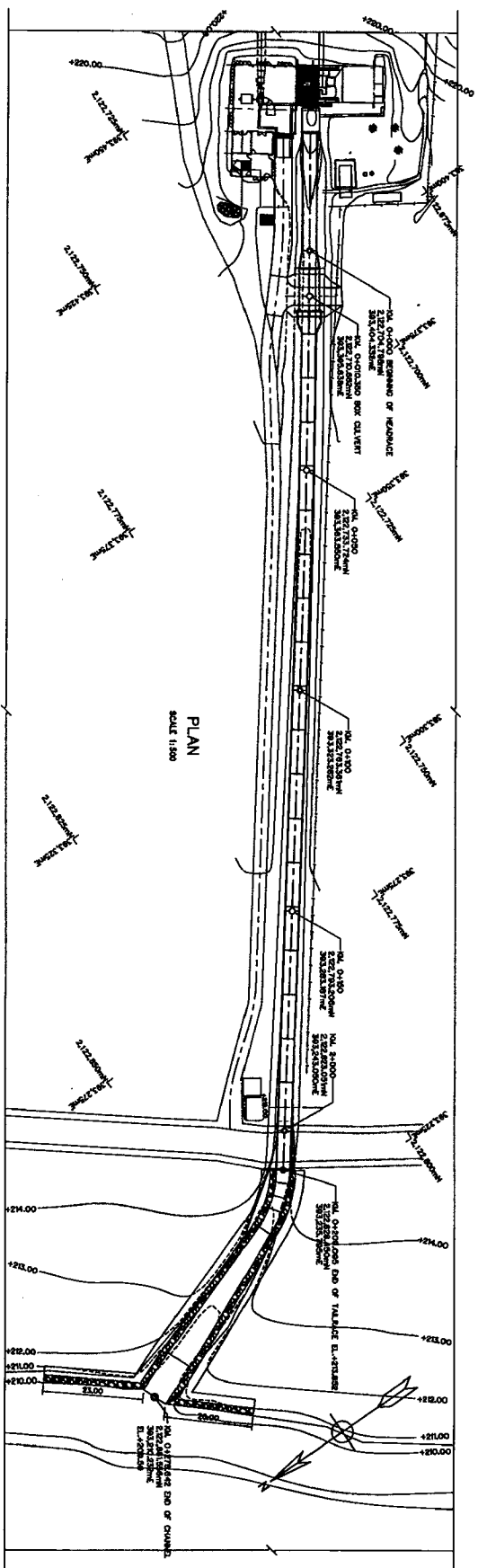
- ▶ **LOAD PANEL 3 PHASE (15 CIRCUITS) WITH MAIN CIRCUIT BREAKER**
- ▶ **LOADING CONTROL PANEL**
- ▶ **THE CABLE IN SET CANNOT SURVIVE MOISTURE INFILTRATION FOR LOADING CIRCUIT**
- ▶ **DRINKS REFRIGERATE WITH DRINKS, 10 TO 1, 250 WAT.**
- ▶ **POWER REFRIGERATE 27WAT. 32 A, 400 VAC.**
- ▶ **NOON BAY FURNACE 1400 W HIGH PRESSURE SODIUM**
- ▶ **NOON BAY FURNACE 1400 W HIGH PRESSURE SODIUM**
- ▶ **DEMOCRAT LOADING 200 W, HALOGEN W/SHIELD LAMP AND BATTERY**
- ▶ **BACKUP 2 HOURS**
- ▶ **AM CONDITIONING, SPLIT TYPE**

- REFERENCE DRAWINGS :**
1. POWERHOUSE, PLANS (SHEET 1/2)
 2. POWERHOUSE, POWER ELECTRIC AND LIGHTING SYSTEMS (SHEET 6/8)
 3. POWERHOUSE, GRADING SYSTEM AND LOAD SCHEDULE

MMS-PH-02
 MMS-PH-27
 MMS-PH-28

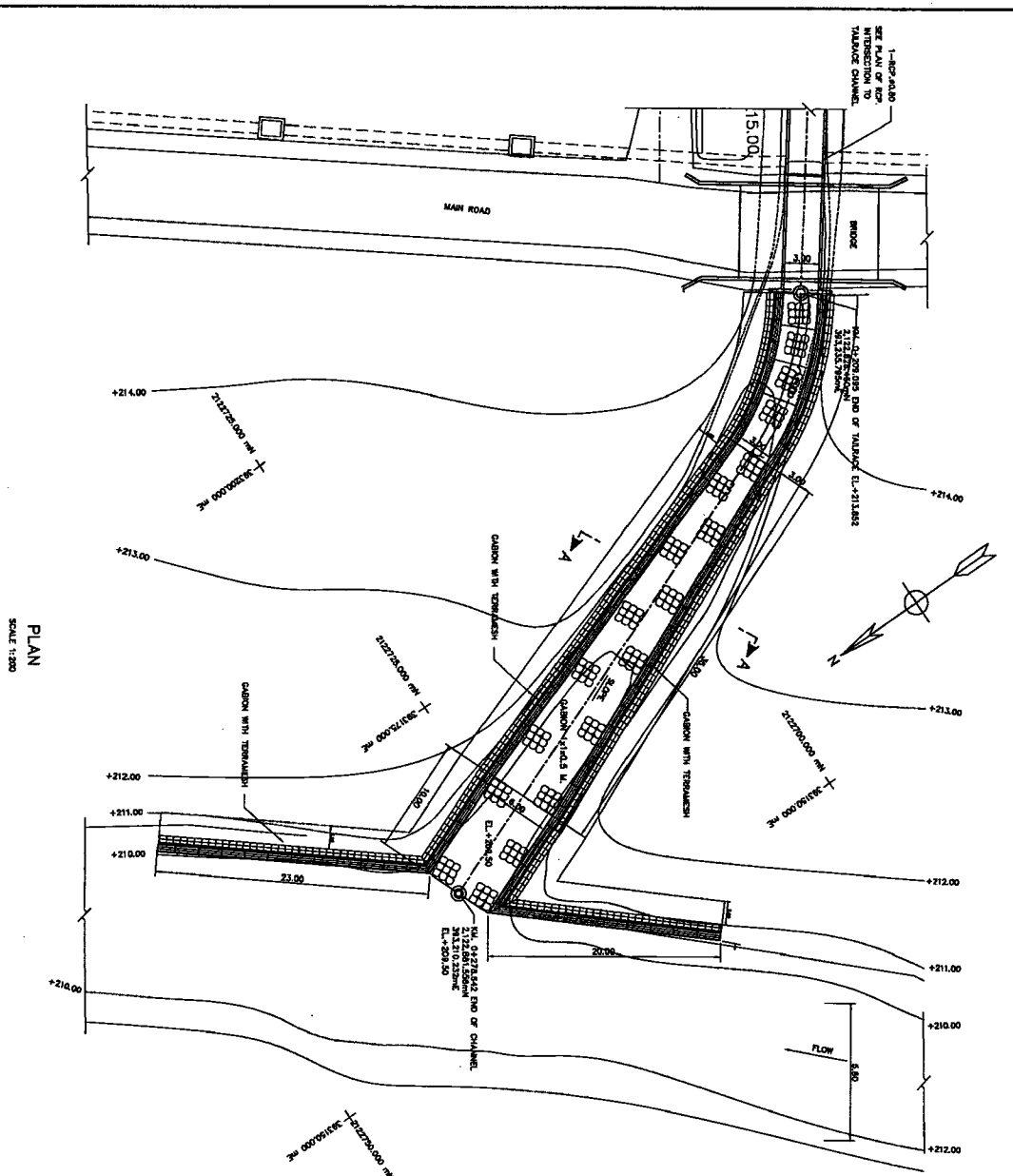
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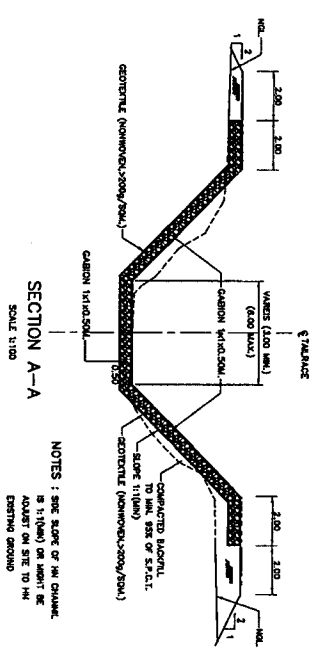
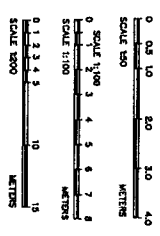


- NOTES :**
1. ALL DIMENSIONS AND ELEVATIONS (WALL, ARE IN METERS, UNLESS OTHERWISE SPECIFY)
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. MS-04-01
- REFERENCE DRAWINGS :-**
1. POWERHOUSE, LAY-OUT OF POWERHOUSE
 2. TAILRACE, TUNNEL AND BENT DRAINAGE PLAN AND SECTIONS
 3. TAILRACE, PLAN AND SECTION TAILRACE CHANNEL

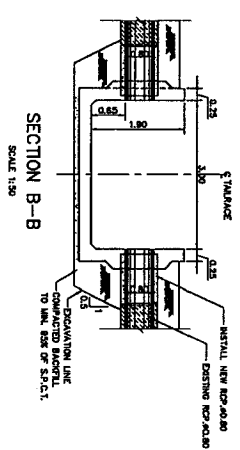
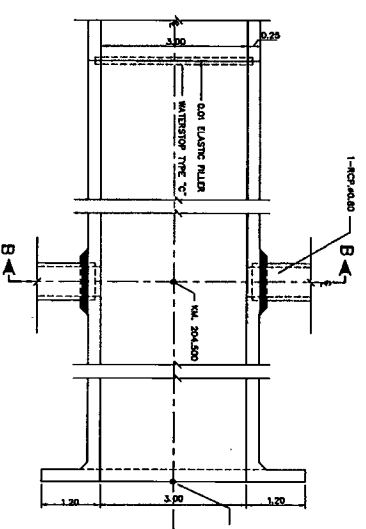
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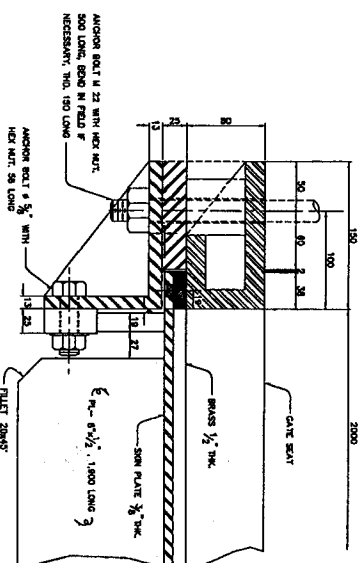
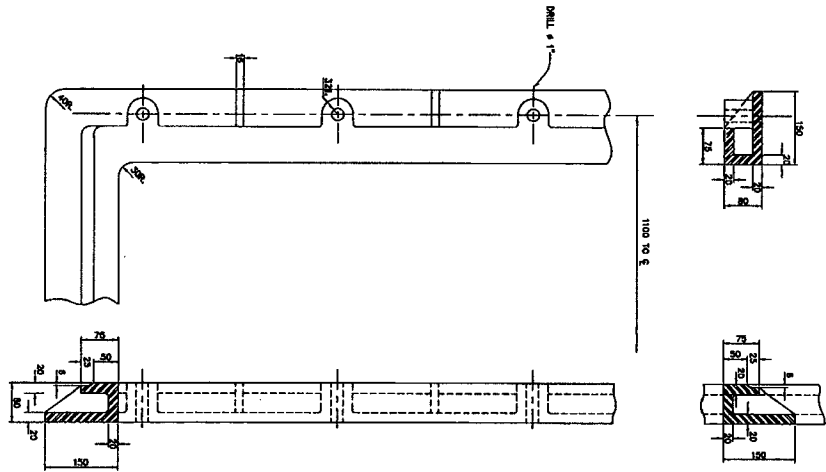
- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (A.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE PWD. NO. MHS-01-01.
- REFERENCE DRAWINGS:-
1. TAILRACE, PLAN PROFILE AND SECTION MHS-TR-01
 2. TAILRACE, TRANSITION AND BOX CULVERT, PLAN AND SECTIONS MHS-TR-02
 3. ACCESS ROAD, MAIN PLAN PROFILE AND SECTION (SHEET 1 OF 3) MHS-AR-01



- NOTES:
1. SEE SCALE OF THE CHANNEL.
 2. SEE SCALE OF THE CHANNEL.
 3. SEE SCALE OF THE CHANNEL.



MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT			
CIVIL WORKS TAILRACE PLAN AND SECTION TAILRACE CHANNEL			
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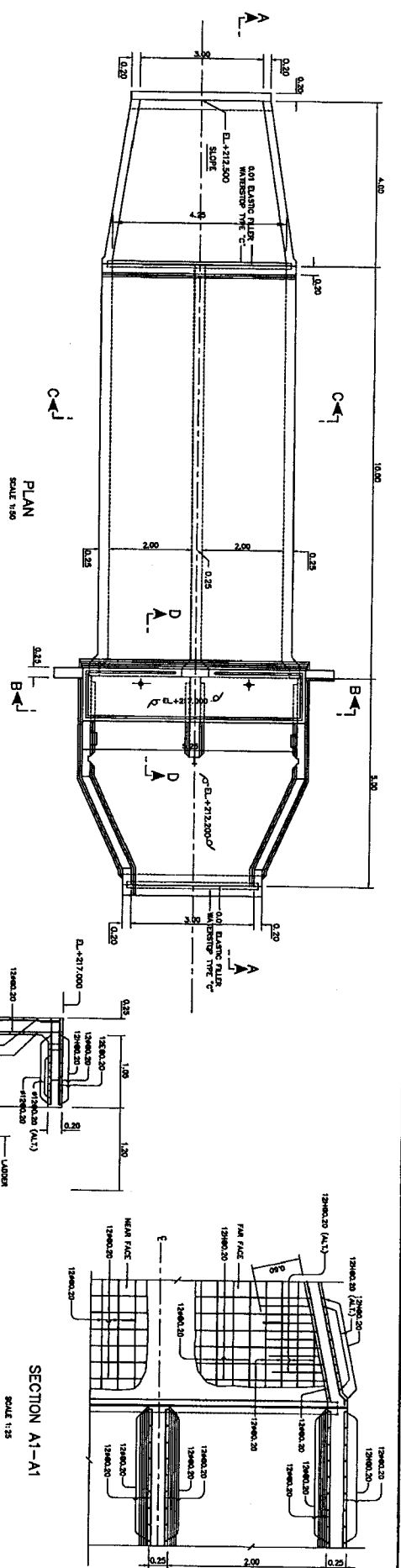


SECTION B-B
SCALE 1:2.5

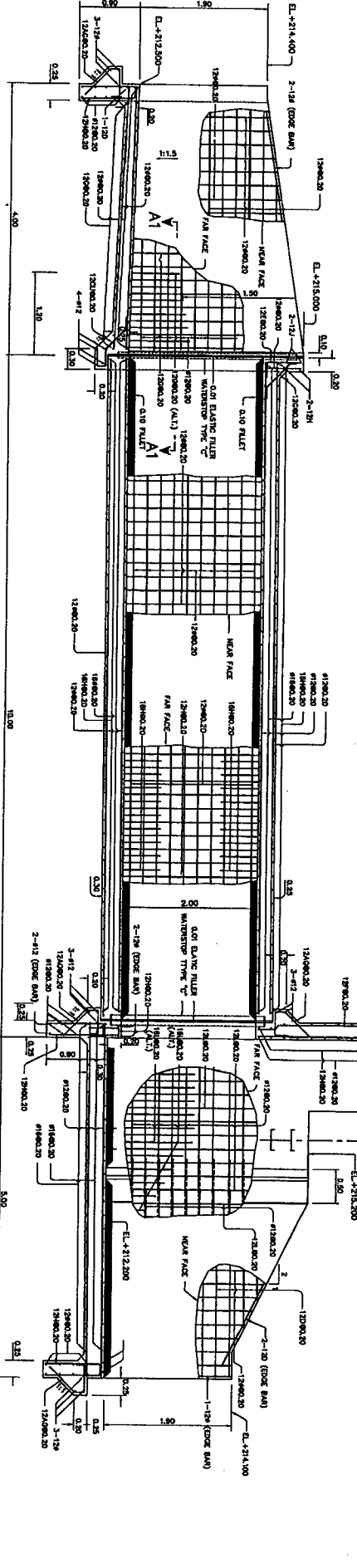
- DAHS-TR-05
DAHS-TR-06

KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS	
TAILRAISE	
TYPICAL CONTROL STRUCTURE	
2,00x2.00 M. SLAB. DATE (SHEET 1 OF 2)	
01 02 03 04 05 06 07 08 09 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 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 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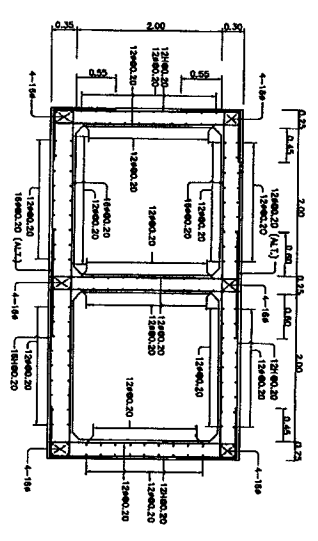
KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		MAE HONG SON HYDRO-POWER PROJECT CHAIL WORKS TAILRACE	
TYPICAL CONTROL STRUCTURE 2,00x2.00 M. SLUICE GATE. (SHEET 2 OF 2)		DRAWING NO. 10116	
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		DRAWING NO. 10116	
RECOMMENDED BY APPROVED BY DATE		RECOMMENDED BY APPROVED BY DATE	
PROJECT NO. 10116		PROJECT NO. 10116	



PLAN
SCALE 1:50



SECTION A-A'
SCALE 1:20

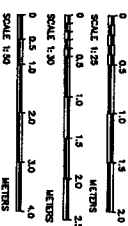


SECTION C-C'
SCALE 1:20

- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS (A.L.T.) ARE IN METERS
 2. REINFORCEMENT BARS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE D.M.C. NO. MHS-04-01.
- REFERENCE DRAWINGS :-
1. TAILANCE, TRANSDUCER AND BOX CLAVERT, PLAN AND SECTIONS
 2. TAILANCE BOX CLAVERT STRUCTURE REINFORCEMENT DETAILS (SHEET 2 OF 2)
 3. TAILANCE, TAILANCE STRUCTURE AND BOX CLAVERT, REINFORCEMENT DETAILS

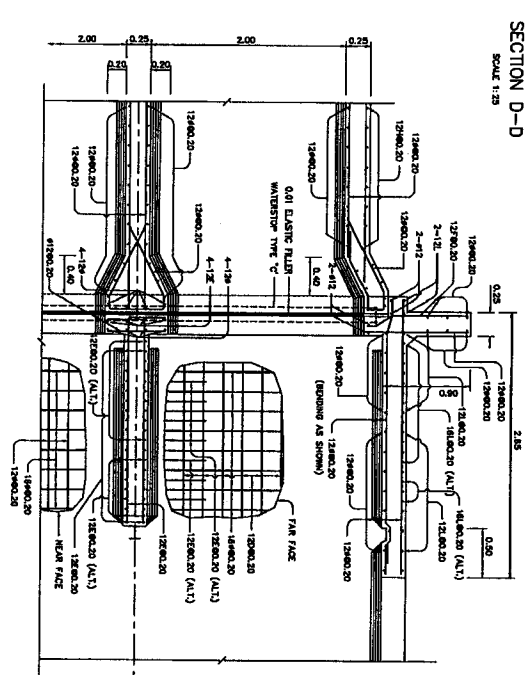
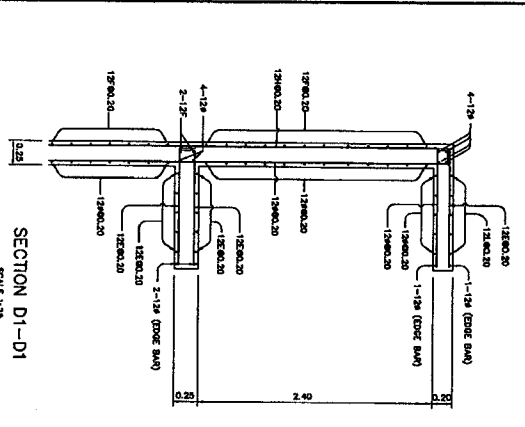
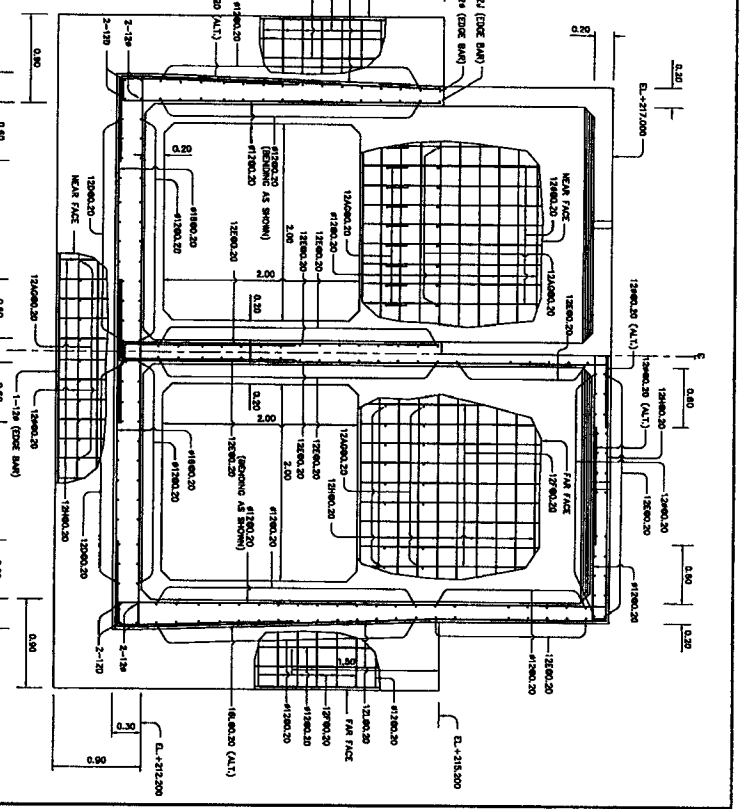
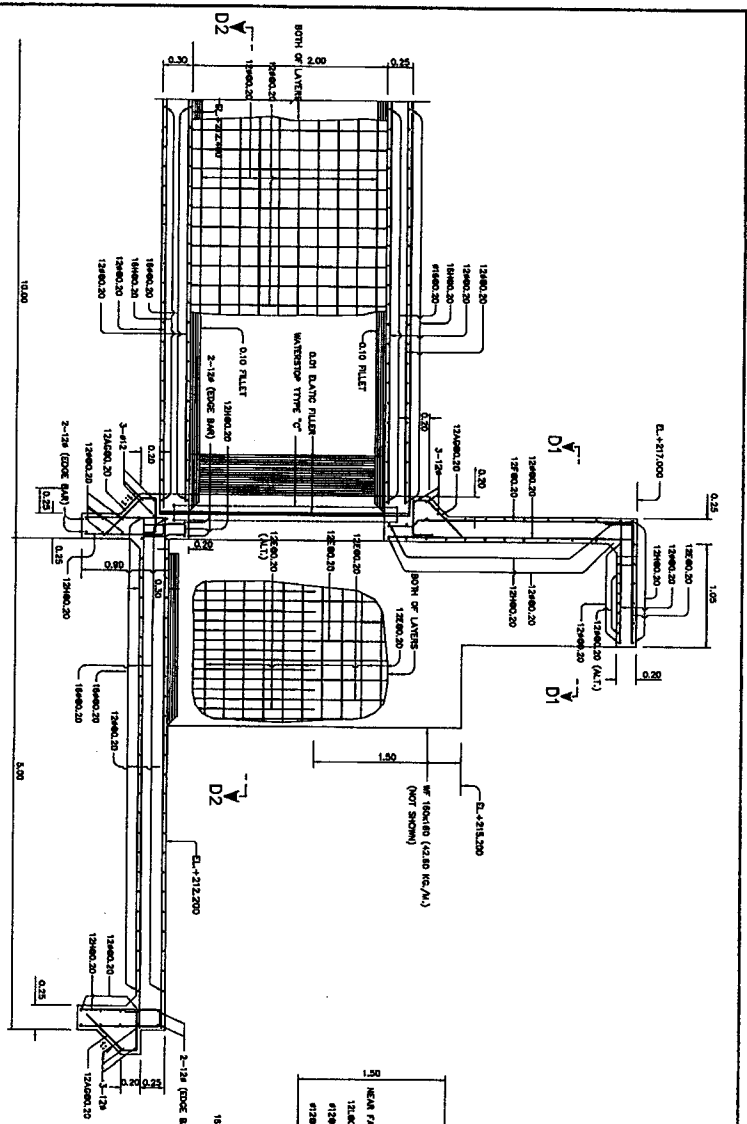
MHS-TR-02
MHS-TR-06
MHS-TR-08

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MINISTRY OF ENERGY
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
MAE HONG SON HYDROPOWER PROJECT
CHIL WORKS
TAILANCE
BOX CLAVERT STRUCTURE
REINFORCEMENT DETAILS (SHEET 1 OF 2)

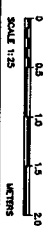
DESIGNED BY: MAE HONG SON
CHECKED BY: MAE HONG SON
APPROVED BY: MAE HONG SON
DATE: 27/09/13
PROJECT NO: MHS-TR-07
SHEET NO: 117 OF 131



SECTION D-D
SCALE 1:25

SECTION B-B
SCALE 1:25

- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS (A.L.T.) ARE IN METERS
 2. REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
 3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE CIVIL NO. 105-21-01.
- REFERENCE DRAWINGS :-
1. TYPICAL BOX CULVERT STRUCTURE REINFORCEMENT DETAILS (SHEET 1 OF 2) MHS-TR-07

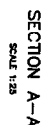


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NO.	DATE	REVISIONS	DESIGNED	APPROVED	
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3					

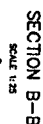
KINGDOM OF THAILAND	
MINISTRY OF ENERGY	
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY	
MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS	
BOX CULVERT STRUCTURE	
REINFORCEMENT DETAILS (SHEET 2 OF 2)	
DESIGNED BY	MAE HONG SON
CHECKED BY	MAE HONG SON
DATE	27/06/11
DRAWING NO.	MHS-TR-08
SHEET NO.	118 OF 131



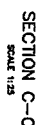
PLAN
SCALE 1:25



SECTION A-A
SCALE 1:25



SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25

1. ALL DIMENSIONS AND ELEVATIONS (N.S.L.) ARE IN METERS
2. REINFORCEMENT BARS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN
3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. WBS-29-01

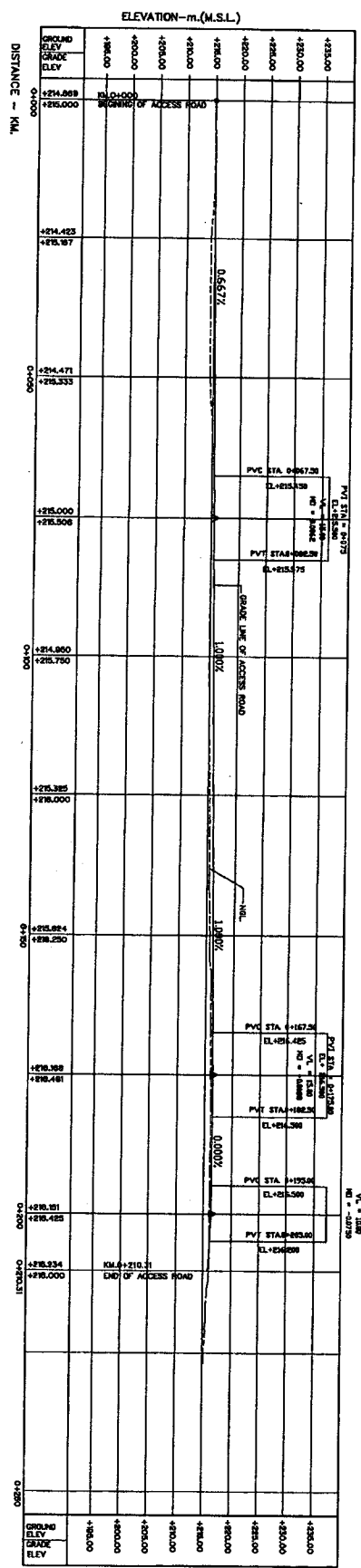
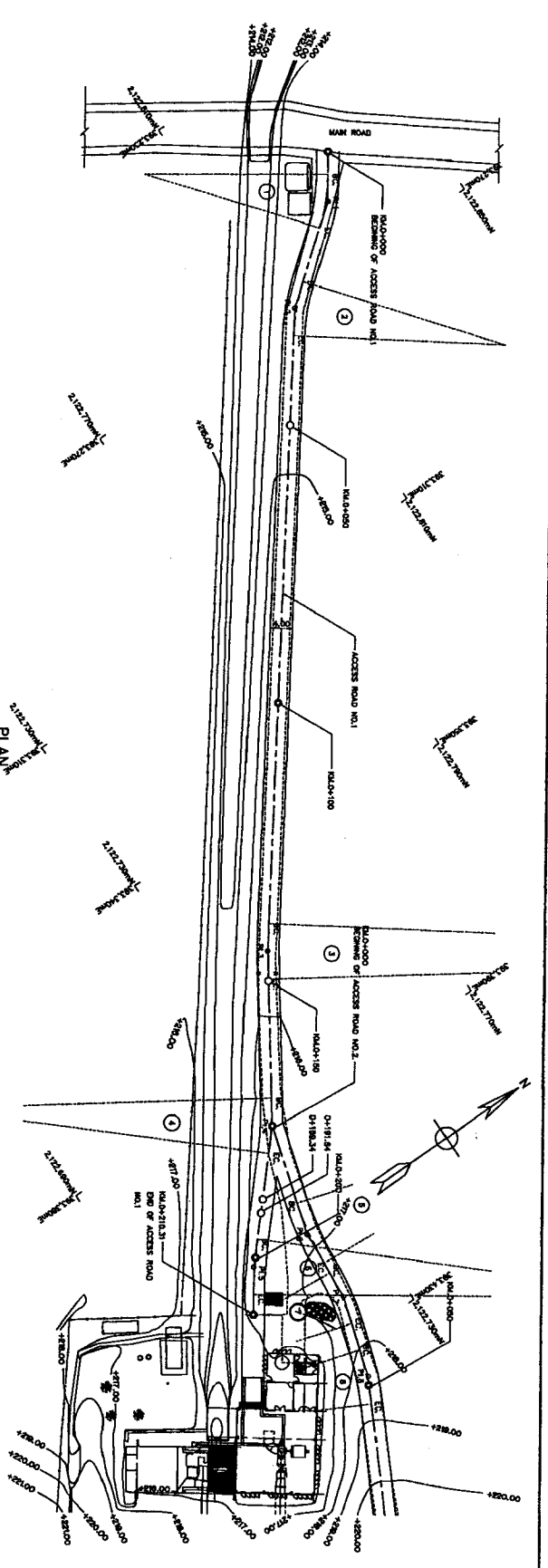
REFERENCE DRAWINGS :

- | | |
|--|-----------|
| 1. TAILRACE, TRANSITION AND BOX CULVERT, PLAN AND SECTIONS | MHS-TR-02 |
| 2. TAILRACE, BOX CULVERT STRUCTURE, REINFORCEMENT DETAILS (SHEET 1 OF 2) | MHS-TR-07 |

R-07

R-07

KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		CIVIL WORKS TALLRACE TALLRACE STRUCTURE AND BLOCK OUT REINFORCEMENT DETAILS		☒ DATA COMPILATION & VALID ☐ DESIGN ☐ CHECKING ☐ REVIEW ☐ APPROVAL ☐ SIGNATURE ☐ DATE	
NO.	DATE	REVISION	DATE	APPROVED	DATE
COMMENTS			CHECK		



CURVE DATA OF ACCESS ROAD NO.1

NO. OF CURVE	PC	PT	PI	COORDINATE OF PI	ANGLE	T	M	L	EC	SC	EC	SC
1	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
2	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
3	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
4	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
5	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
6	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
7	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
8	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
9	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00
10	0+000.00	0+000.00	0+000.00	228.281.04	17°-12'-12"	8.000	33.000	0.000	0+000.00	0+000.00	0+000.00	0+000.00

PROFILE
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:10

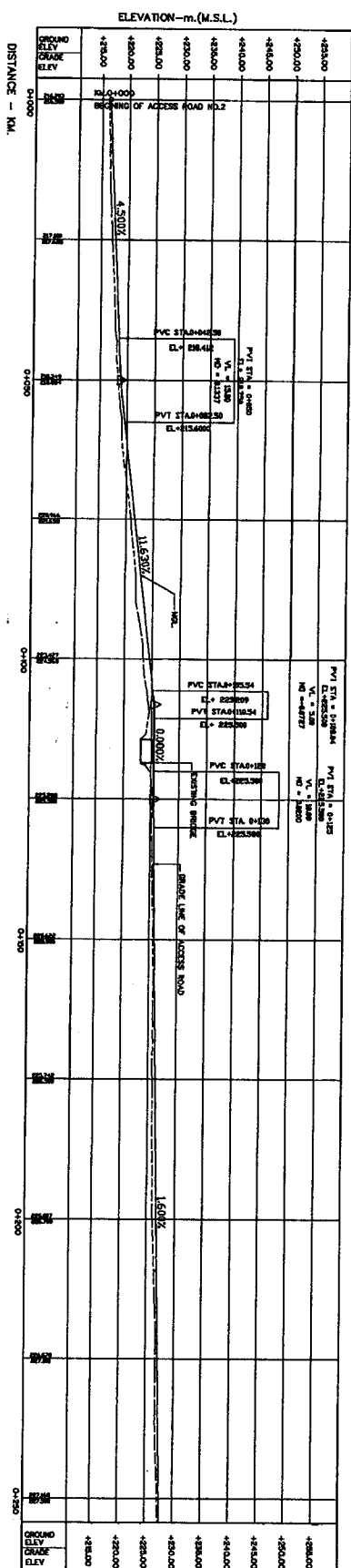
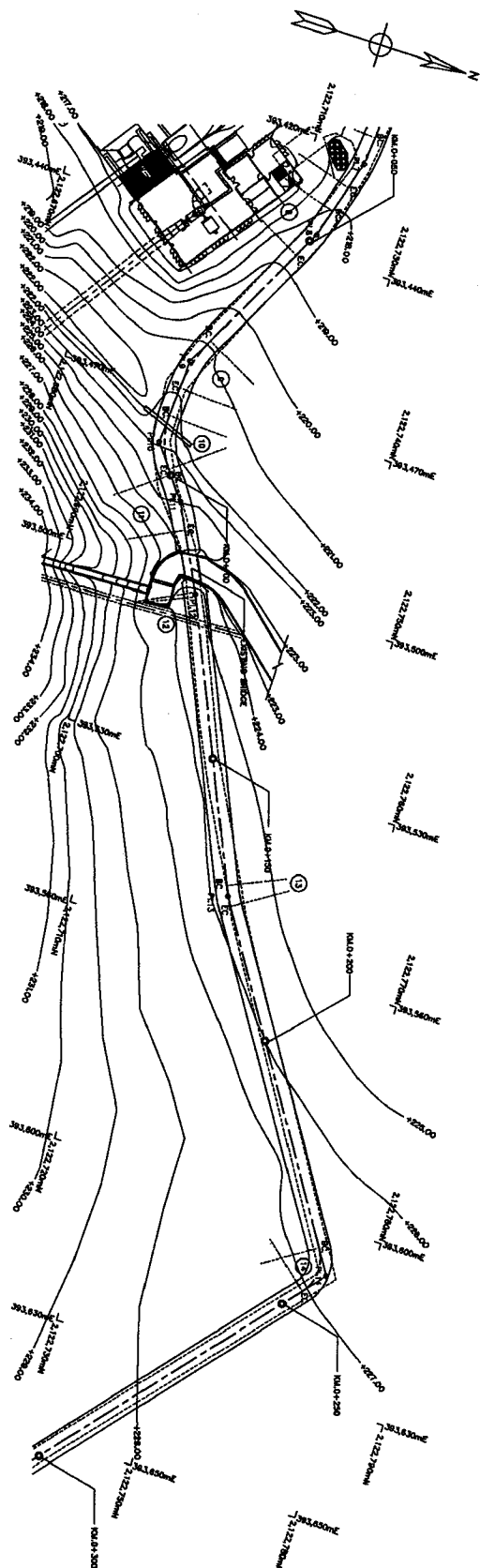
- NOTES:**
1. ALL DIMENSIONS AND ELEVATIONS (M.A.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SET OUT IN M.S.-48-01-01.
 3. ALIGNMENT OF ACCESS ROAD SHALL BE SET BY FIELD WORKERS IN THE FIELD TO SET THE TIE-POINTS.
- REFERENCE DRAWINGS:**
1. ACCESS ROAD, NO. 1, PLAN AND PROFILE (SHEET 1/2)
 2. ACCESS ROAD, NO. 1, SECTION (SHEET 1/2)
 3. ACCESS ROAD, NO. 1, SECTION (SHEET 1/2)
 4. ACCESS ROAD, NO. 1, SECTION (SHEET 1/2)



NO. 1, PLAN AND PROFILE		NO. 1, PLAN AND PROFILE	
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE
REVISIONS	REVISIONS	REVISIONS	REVISIONS
NO.	DATE	REVISIONS	NO.
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2		REVISIONS	2
3		REVISIONS	3
4		REVISIONS	4

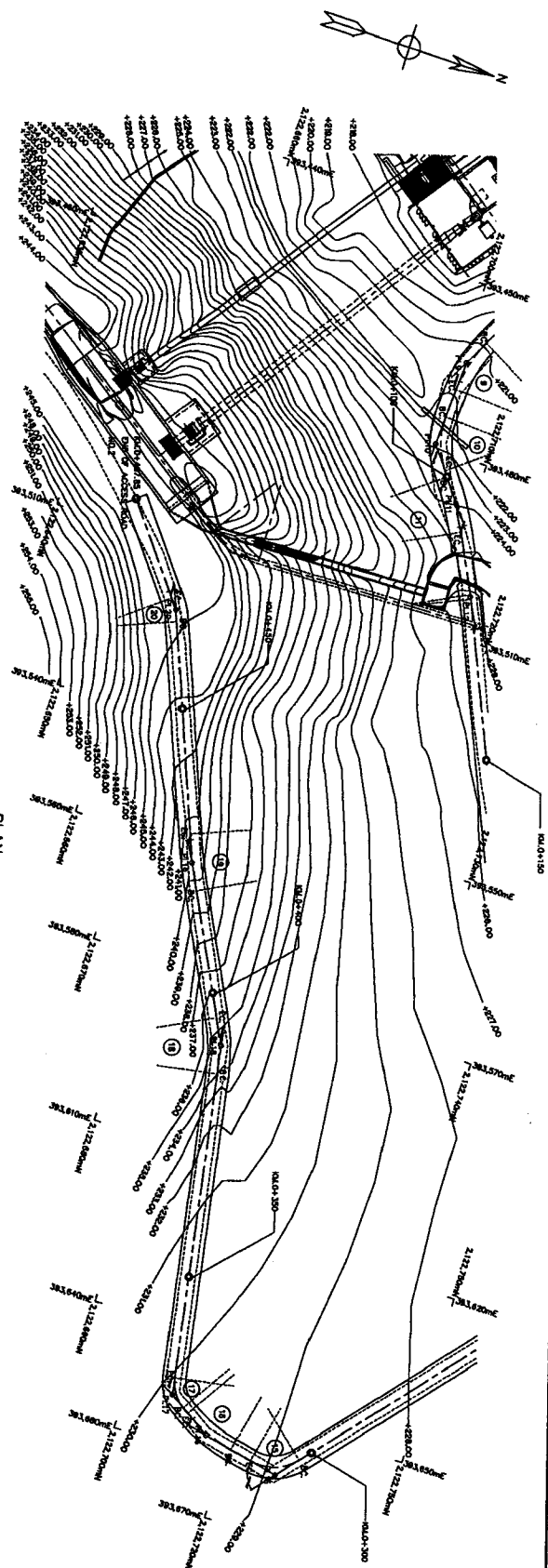
DEPARTMENT OF ALTERNATIVE ENERGY
MINISTRY OF ENERGY
MAE HONG SON HYDROPOWER PROJECT
CIVIL WORKS
ACCESS ROAD
NO. 1, PLAN AND PROFILE

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 22/07/73
REVISIONS: [Signature]
NO. 1, PLAN AND PROFILE

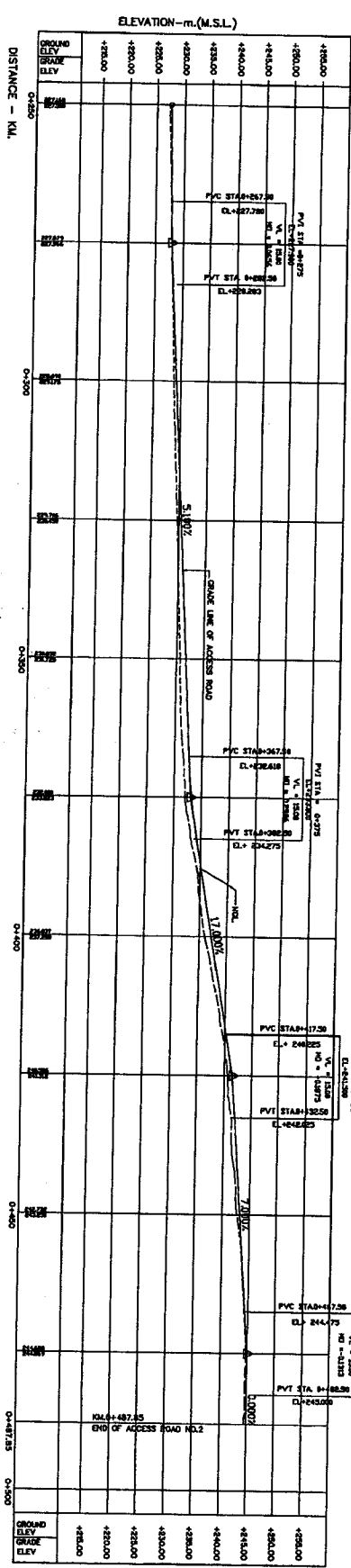


- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (F.E.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE: CDD, NO. 44-6-01-01.
 3. ALIGNMENT OF ACCESS ROAD SHALL BE APPROVED BY FIELD ENGINEER IN THE FIELD TO SUIT THE TERRAIN.
- REFERENCE DRAWINGS :
1. ACCESS ROAD, NO.1, PLAN AND PROFILE
 2. ACCESS ROAD, NO.2, PLAN AND PROFILE (SHEET 3/2)
 3. ACCESS ROAD, CEMENT DATA OF ACCESS ROAD NO.2
 4. ACCESS ROAD, NO.3, SECTIONS 10+0-100 TO 10+0+150
 5. ACCESS ROAD, NO.4, SECTIONS 10+0+175 TO 10+0+225
 6. ACCESS ROAD, TYPICAL SECTIONS AND DETAILS (SHEET 1/A - SHEET 3/2)
- 44-6-A1-C1
44-6-A1-C2
44-6-A1-C3
44-6-A1-C4
44-6-A1-C5
44-6-A1-C6
44-6-A1-C7
44-6-A1-C8
44-6-A1-C9
44-6-A1-C10
44-6-A1-C11
44-6-A1-C12
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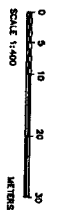


PLAN
SCALE 1:400



PROFILE
HORIZONTAL SCALE 1:400
VERTICAL SCALE 1:400

- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. CHANNEL, DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 3. ADJUSTMENT OF ACCESS ROAD SHALL BE APPROVED BY FIELD ENGINEER IN THE FIELD TO SUIT THE TERRAIN.
- REFERENCE DRAWINGS:
1. ACCESS ROAD, NO.2, PLAN AND PROFILE (SHEET 1/2)
 2. ACCESS ROAD, CANAL DATA OF ACCESS ROAD NO.2
 3. ACCESS ROAD, NO.2, SECTION (M.S.L.) TO 0+400.00
 4. ACCESS ROAD, NO.2, SECTION (M.S.L.) TO 0+400.00
 5. ACCESS ROAD, TYPICAL SECTIONS AND DETAILS (SHEET 1/3 - SHEET 3/3)



KINGDOM OF THAILAND DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT			
CIVIL WORKS ACCESS ROAD NO.2, PLAN AND PROFILE			
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
MAE HONG SON	MAE HONG SON	MAE HONG SON	27/09/13
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
MAE HONG SON	MAE HONG SON	MAE HONG SON	27/09/13
DESIGNED BY	CHECKED BY	APPROVED BY	DATE
MAE HONG SON	MAE HONG SON	MAE HONG SON	27/09/13

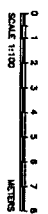
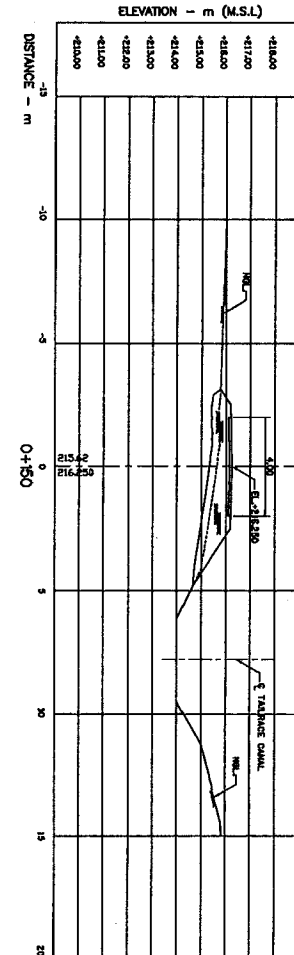
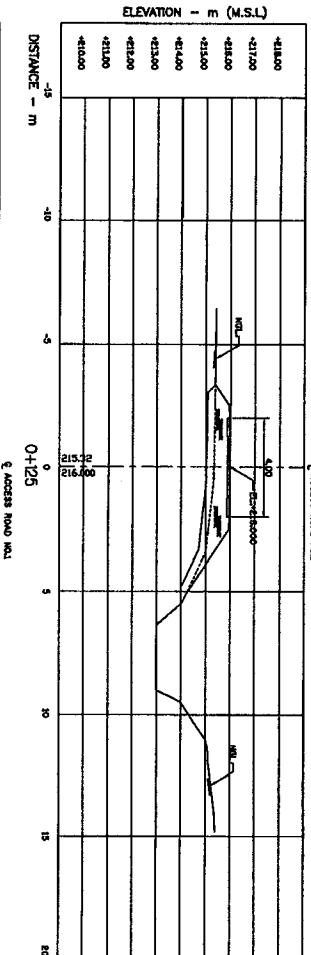
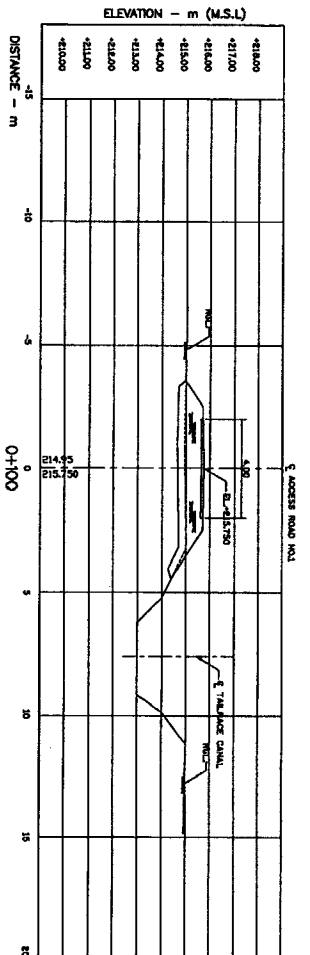
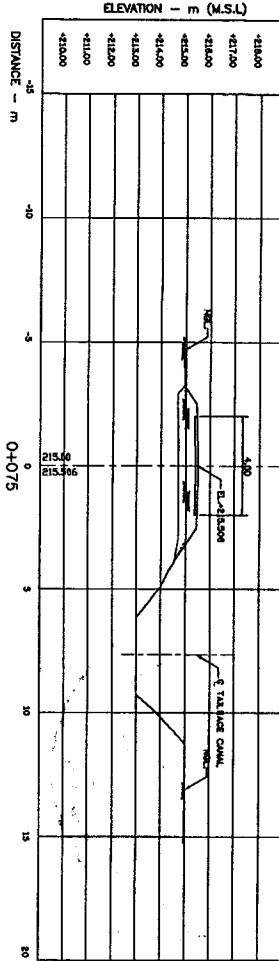
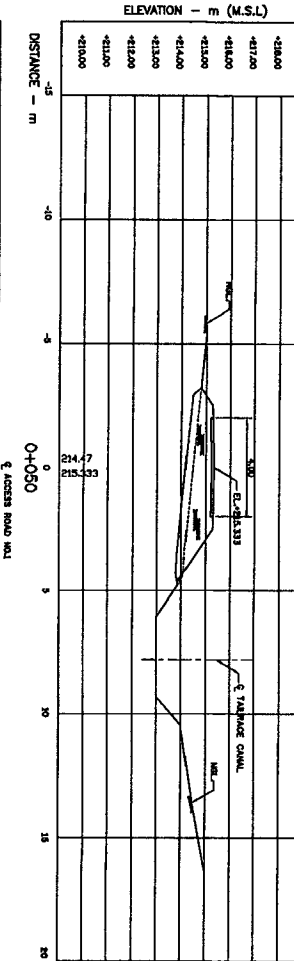
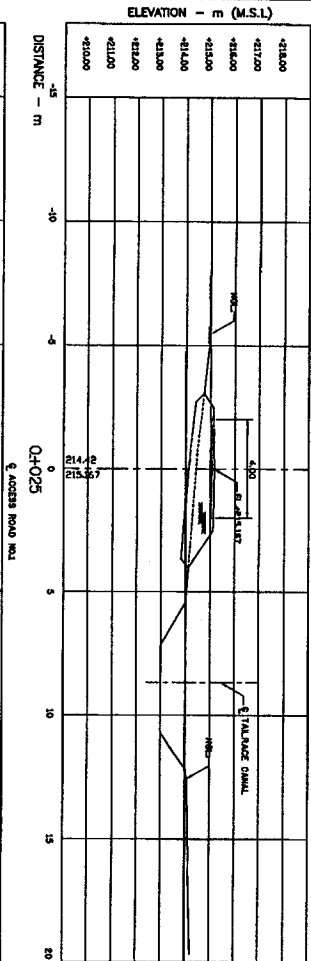
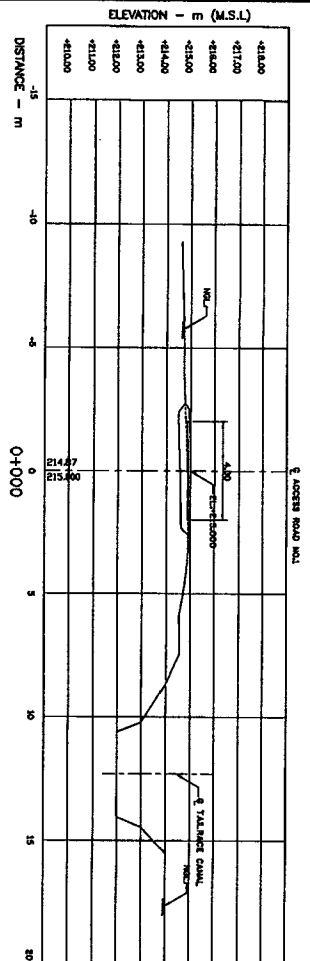
CURVE DATA OF ACCESS ROAD NO.2

NO OF CURVE	STATION	PC TO PT	COORDINATE OF P.C.	ANGLE	T	R	L	MC	STATION
1	0+000.00	26.348	272788.310	-	-	-	-	-	3+23-07-24 E
2	0+026.35	13.009	272788.310	107-09-51.73	6.000	753.81	11.054	8.63	3+30-20 E
3	0+039.35	14.554	272788.310	72-04-52.07	5.000	438.46	5.961	23.55	3+37-13 E
4	0+053.90	13.009	272788.310	1-4-44.48	5.000	51.430	9.949	28.43	3+44-08 E
5	0+066.90	13.009	272788.310	84-07-53.82	5.000	62.438	9.949	28.43	3+51-03 E
6	0+080.00	13.009	272788.310	48-43-25.59	5.000	134.71	9.972	24.56	3+58-08 E
7	0+093.00	13.009	272788.310	32-32-31.81	5.000	54.97	9.972	24.56	4+05-03 E
8	0+106.00	13.009	272788.310	2-4-30.53	0.487	130.08	8.814	12.14	4+12-08 E
9	0+119.00	13.009	272788.310	8-07-29.82	1.268	25.048	3.779	17.73	4+19-03 E
10	0+132.00	13.009	272788.310	72-44-43.33	5.000	6.789	8.814	23.42	4+26-08 E
11	0+145.00	13.009	272788.310	61-07-48.82	5.000	6.884	9.947	28.43	4+33-03 E
12	0+158.00	13.009	272788.310	89-4-43.37	5.000	18.209	9.949	28.43	4+40-08 E
13	0+171.00	13.009	272788.310	47-04-51.32	5.000	6.782	8.814	23.42	4+47-03 E
14	0+184.00	13.009	272788.310	17-23-43.55	5.000	28.708	9.949	28.43	4+54-08 E
15	0+197.00	13.009	272788.310	5-43-56.49	5.000	99.289	3.995	43.38	5+01-03 E
16	0+210.00	13.009	272788.310	16-04-31.82	6.187	12.008	4.385	46.27	5+08-08 E
17	0+223.00	13.009	272788.310	-	-	-	-	-	5+15-03 E
18	0+236.00	13.009	272788.310	-	-	-	-	-	5+22-08 E
19	0+249.00	13.009	272788.310	-	-	-	-	-	5+29-03 E
20	0+262.00	13.009	272788.310	-	-	-	-	-	5+36-08 E
21	0+275.00	13.009	272788.310	-	-	-	-	-	5+43-03 E
22	0+288.00	13.009	272788.310	-	-	-	-	-	5+50-08 E
23	0+301.00	13.009	272788.310	-	-	-	-	-	5+57-03 E
24	0+314.00	13.009	272788.310	-	-	-	-	-	6+04-08 E
25	0+327.00	13.009	272788.310	-	-	-	-	-	6+11-03 E
26	0+340.00	13.009	272788.310	-	-	-	-	-	6+18-08 E
27	0+353.00	13.009	272788.310	-	-	-	-	-	6+25-03 E
28	0+366.00	13.009	272788.310	-	-	-	-	-	6+32-08 E
29	0+379.00	13.009	272788.310	-	-	-	-	-	6+39-03 E
30	0+392.00	13.009	272788.310	-	-	-	-	-	6+46-08 E
31	0+405.00	13.009	272788.310	-	-	-	-	-	6+53-03 E
32	0+418.00	13.009	272788.310	-	-	-	-	-	7+00-08 E
33	0+431.00	13.009	272788.310	-	-	-	-	-	7+07-03 E
34	0+444.00	13.009	272788.310	-	-	-	-	-	7+14-08 E
35	0+457.00	13.009	272788.310	-	-	-	-	-	7+21-03 E
36	0+470.00	13.009	272788.310	-	-	-	-	-	7+28-08 E
37	0+483.00	13.009	272788.310	-	-	-	-	-	7+35-03 E
38	0+496.00	13.009	272788.310	-	-	-	-	-	7+42-08 E
39	0+509.00	13.009	272788.310	-	-	-	-	-	7+49-03 E
40	0+522.00	13.009	272788.310	-	-	-	-	-	7+56-08 E
41	0+535.00	13.009	272788.310	-	-	-	-	-	8+03-03 E
42	0+548.00	13.009	272788.310	-	-	-	-	-	8+10-08 E
43	0+561.00	13.009	272788.310	-	-	-	-	-	8+17-03 E
44	0+574.00	13.009	272788.310	-	-	-	-	-	8+24-08 E
45	0+587.00	13.009	272788.310	-	-	-	-	-	8+31-03 E
46	0+600.00	13.009	272788.310	-	-	-	-	-	8+38-08 E
47	0+613.00	13.009	272788.310	-	-	-	-	-	8+45-03 E
48	0+626.00	13.009	272788.310	-	-	-	-	-	8+52-08 E
49	0+639.00	13.009	272788.310	-	-	-	-	-	8+59-03 E
50	0+652.00	13.009	272788.310	-	-	-	-	-	9+06-08 E
51	0+665.00	13.009	272788.310	-	-	-	-	-	9+13-03 E
52	0+678.00	13.009	272788.310	-	-	-	-	-	9+20-08 E
53	0+691.00	13.009	272788.310	-	-	-	-	-	9+27-03 E
54	0+704.00	13.009	272788.310	-	-	-	-	-	9+34-08 E
55	0+717.00	13.009	272788.310	-	-	-	-	-	9+41-03 E
56	0+730.00	13.009	272788.310	-	-	-	-	-	9+48-08 E
57	0+743.00	13.009	272788.310	-	-	-	-	-	9+55-03 E
58	0+756.00	13.009	272788.310	-	-	-	-	-	10+02-08 E
59	0+769.00	13.009	272788.310	-	-	-	-	-	10+09-03 E
60	0+782.00	13.009	272788.310	-	-	-	-	-	10+16-08 E
61	0+795.00	13.009	272788.310	-	-	-	-	-	10+23-03 E
62	0+808.00	13.009	272788.310	-	-	-	-	-	10+30-08 E
63	0+821.00	13.009	272788.310	-	-	-	-	-	10+37-03 E
64	0+834.00	13.009	272788.310	-	-	-	-	-	10+44-08 E
65	0+847.00	13.009	272788.310	-	-	-	-	-	10+51-03 E
66	0+860.00	13.009	272788.310	-	-	-	-	-	10+58-08 E
67	0+873.00	13.009	272788.310	-	-	-	-	-	11+05-03 E
68	0+886.00	13.009	272788.310	-	-	-	-	-	11+12-08 E
69	0+899.00	13.009	272788.310	-	-	-	-	-	11+19-03 E
70	0+912.00	13.009	272788.310	-	-	-	-	-	11+26-08 E
71	0+925.00	13.009	272788.310	-	-	-	-	-	11+33-03 E
72	0+938.00	13.009	272788.310	-	-	-	-	-	11+40-08 E
73	0+951.00	13.009	272788.310	-	-	-	-	-	11+47-03 E
74	0+964.00	13.009	272788.310	-	-	-	-	-	11+54-08 E
75	0+977.00	13.009	272788.310	-	-	-	-	-	12+01-03 E
76	0+990.00	13.009	272788.310	-	-	-	-	-	12+08-08 E
77	0+1003.00	13.009	272788.310	-	-	-	-	-	12+15-03 E
78	0+1016.00	13.009	272788.310	-	-	-	-	-	12+22-08 E
79	0+1029.00	13.009	272788.310	-	-	-	-	-	12+29-03 E
80	0+1042.00	13.009	272788.310	-	-	-	-	-	12+36-08 E
81	0+1055.00	13.009	272788.310	-	-	-	-	-	12+43-03 E
82	0+1068.00	13.009	272788.310	-	-	-	-	-	12+50-08 E
83	0+1081.00	13.009	272788.310	-	-	-	-	-	12+57-03 E
84	0+1094.00	13.009	272788.310	-	-	-	-	-	13+04-08 E
85	0+1107.00	13.009	272788.310	-	-	-	-	-	13+11-03 E
86	0+1120.00	13.009	272788.310	-	-	-	-	-	13+18-08 E
87	0+1133.00	13.009	272788.310	-	-	-	-	-	13+25-03 E
88	0+1146.00	13.009	272788.310	-	-	-	-	-	13+32-08 E
89	0+1159.00	13.009	272788.310	-	-	-	-	-	13+39-03 E
90	0+1172.00	13.009	272788.310	-	-	-	-	-	13+46-08 E
91	0+1185.00	13.009	272788.310	-	-	-	-	-	13+53-03 E
92	0+1198.00	13.009	272788.310	-	-	-	-	-	14+00-08 E
93	0+1211.00	13.009	272788.310	-	-	-	-	-	14+07-03 E
94	0+1224.00	13.009	272788.310	-	-	-	-	-	14+14-08 E
95	0+1237.00	13.009	272788.310	-	-	-	-	-	14+21-03 E
96	0+1250.00	13.009	272788.310	-	-	-	-	-	14+28-08 E
97	0+1263.00	13.009	272788.310	-	-	-	-	-	14+35-03 E
98	0+1276.00	13.009	272788.310	-	-	-	-	-	14+42-08 E
99	0+1289.00	13.009	272788.310	-	-	-	-	-	14+49-03 E
100	0+1302.00	13.009	272788.310	-	-	-	-	-	14+56-08 E

- NOTES:
1. ALL DIMENSIONS AND DISTANCES (N.E.S.) ARE IN METERS UNLESS OTHERWISE STATED.
 2. SYMBOLS, ABBREVIATIONS AND SPECIAL NOTES SEE DRAWING NO. W-20-01.
- REFERENCE DRAWINGS:
1. ACCESS ROAD, NO.2, PLAN AND PROFILE (SHEET 1/2)
 2. ACCESS ROAD, NO.2, PLAN AND PROFILE (SHEET 2/2)

W-20-02
W-20-03

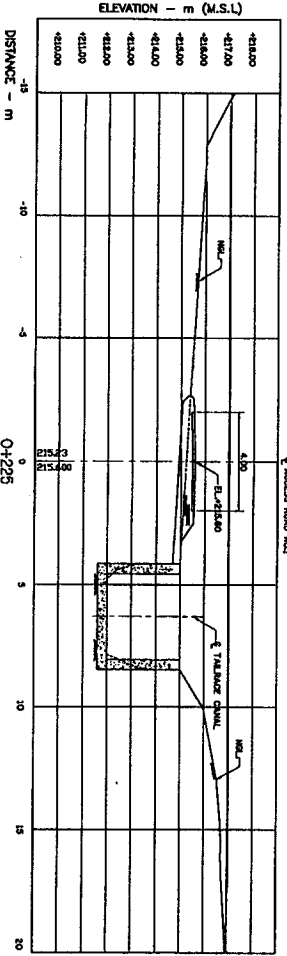
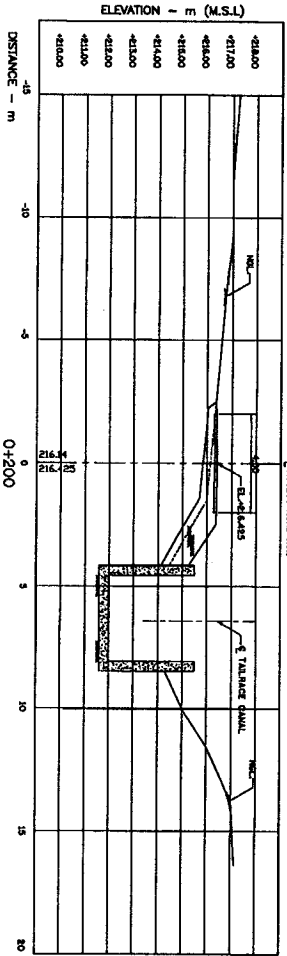
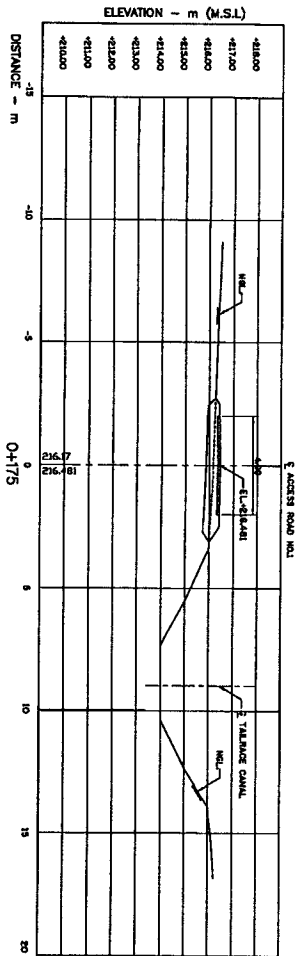
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1	27/02/13	1	W-20-02	W-20-03	27/02/13
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3		3	W-20-06	W-20-07	
4		4	W-20-08	W-20-09	
5		5	W-20-10	W-20-11	
6		6	W-20-12	W-20-13	
7		7	W-20-14	W-20-15	
8		8	W-20-16	W-20-17	
9		9	W-20-18	W-20-19	
10		10	W-20-20	W-20-21	
11		11	W-20-22	W-20-23	
12		12	W-20-24	W-20-25	
13		13	W-20-26	W-20-27	
14		14	W-20-28	W-20-29	
15		15	W-20-30	W-20-31	
16		16	W-20-32	W-20-33	
17		17	W-20-34	W-20-35	
18		18	W-20-36	W-20-37	
19		19	W-20-38	W-20-39	
20		20	W-20-40	W-20-41	
21		21	W-20-42	W-20-43	
22		22	W-20-44	W-20-45	
23		23	W-20-46	W-20-47	
24		24	W-20-48	W-20-49	
25		25	W-20-50	W-20-51	
26		26	W-20-52	W-20-53	
27		27	W-20-54	W-20-55	
28		28	W-20-56	W-20-57	
29		29	W-20-58	W-20-59	
30		30	W-20-60	W-20-61	
31		31	W-20-62	W-20-63	
32		32	W-20-64	W-20-65	
33		33	W-20-66	W-20-67	
34		34	W-20-68	W-20-69	
35		35	W-20-70	W-20-71	
36		36	W-20-72	W-20-73	
37		37	W-20-74	W-20-75	
38		38	W-20-76	W-20-77	
39		39	W-20-78	W-20-79	
40		40	W-20-80	W-20-81	
41		41			



- NOTES:**
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES ARE ON SHEET NO. MHS-DR-01.
- REFERENCE DRAWINGS:**
1. ACCESS ROAD NO.1 PLAN AND PROFILE
 2. ACCESS ROAD NO.1 SECTIONS RELATIVE TO KULAPIT
 3. ACCESS ROAD, TYPICAL SECTIONS AND DETAILS (SHEET 1/3 - SHEET 3/3)

NO.	REVISIONS	DATE	APPROVED
1	AS NOTED		
2	AS NOTED		
3	AS NOTED		

KINGDOM OF THAILAND MINISTRY OF ENERGY DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY MAE HONG SON HYDROPOWER PROJECT	
CIVIL WORKS ACCESS ROAD NO.1, SECTIONS MAE+000 TO MAE+150	
DESIGNER DRAWN CHECKED PROJECT MANAGER	REVIEWED APPROVED DATE MHS-AR-05 1/3 OF 13



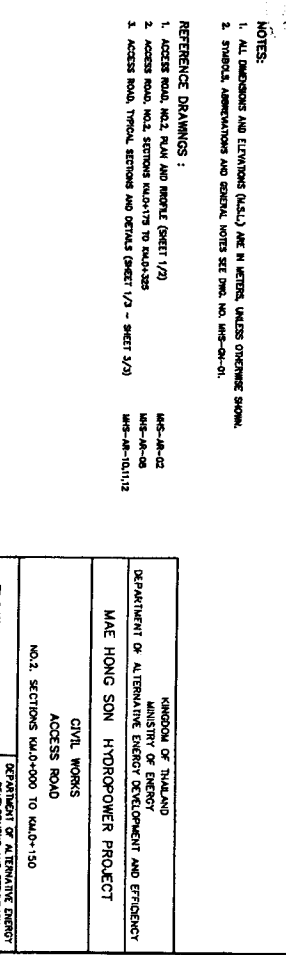
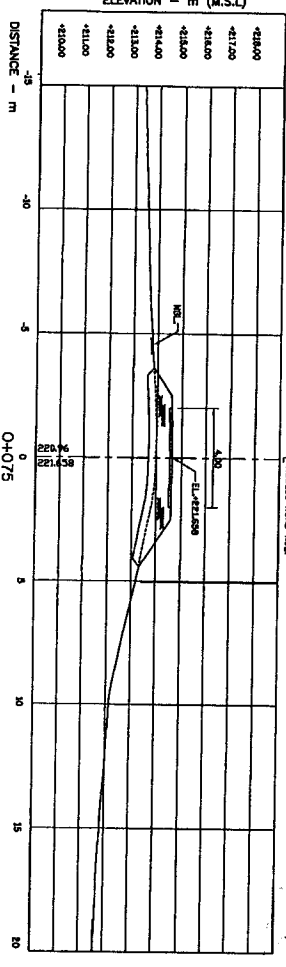
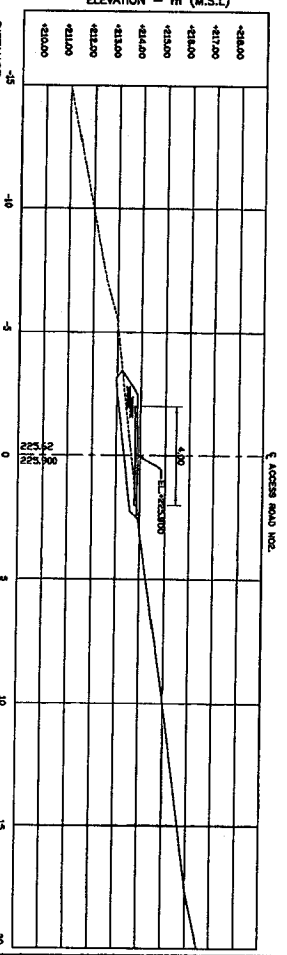
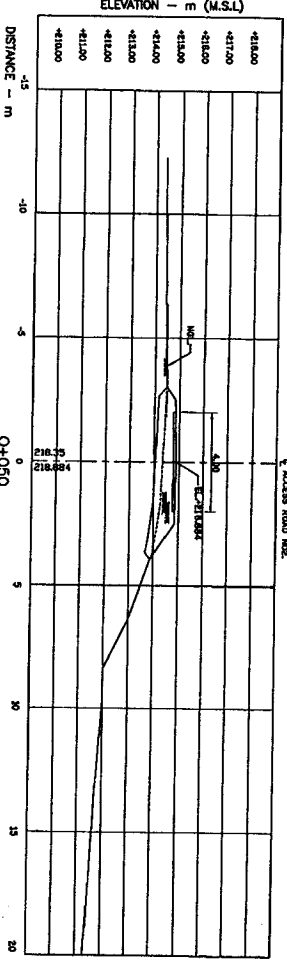
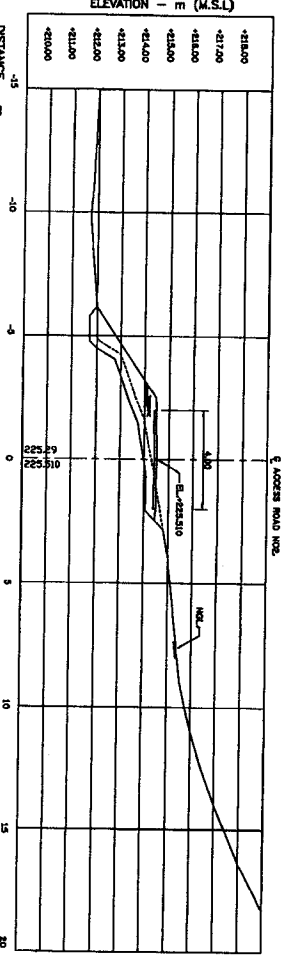
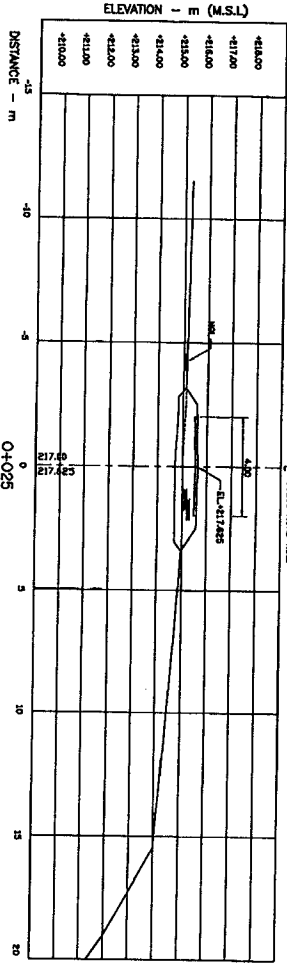
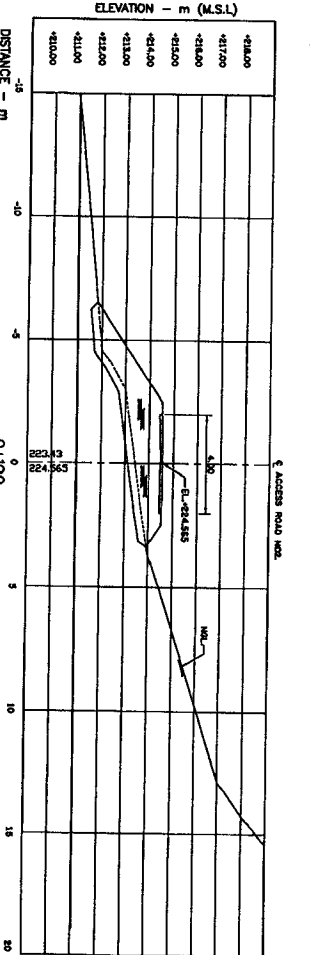
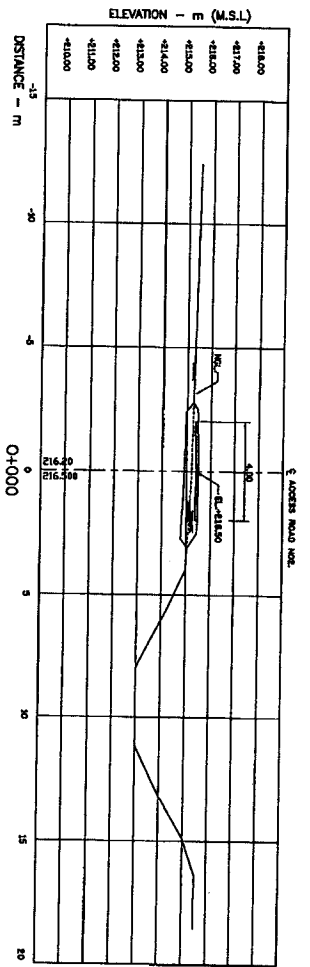
- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABREVIATIONS AND GENERAL NOTES SEE SHEET NO. MS-AR-01.
- REFERENCE DRAWINGS:
1. ACCESS ROAD, NO.1, PLAN AND PROFILE
 2. ACCESS ROAD, NO.1, SECTIONS N+0+000 TO N+0+150
 3. ACCESS ROAD, TYPICAL SECTIONS AND DETAILS (SHEET 1/2 - SHEET 3/2)



NO.	DATE	REVISIONS	DESIGNED	CHECKED	APPROVED
1					
2					
3					

KINGDOM OF THAILAND
 MINISTRY OF ENERGY
 DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
 MAE HONG SON HYDROPOWER PROJECT
 CIVIL WORKS
 ACCESS ROAD
 NO.1, SECTIONS N+0+175 TO N+0+225

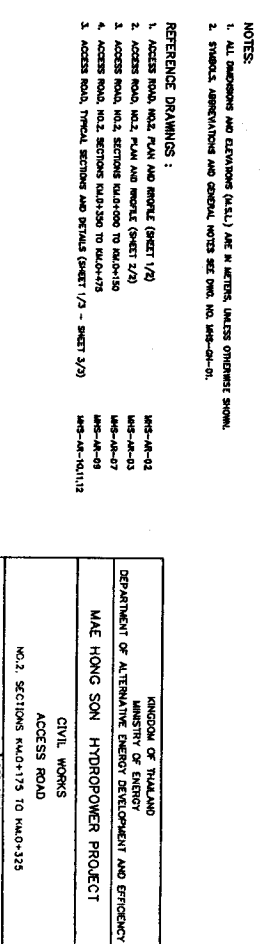
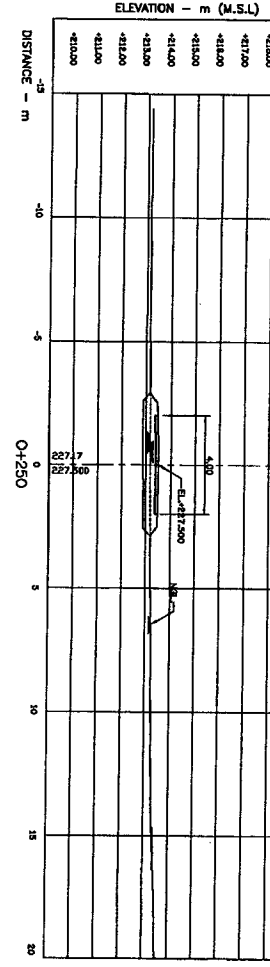
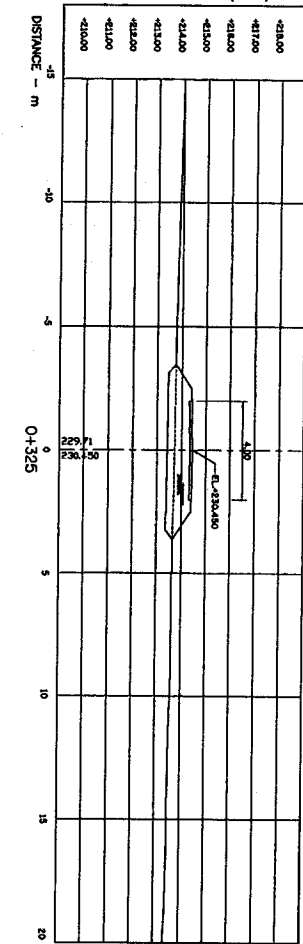
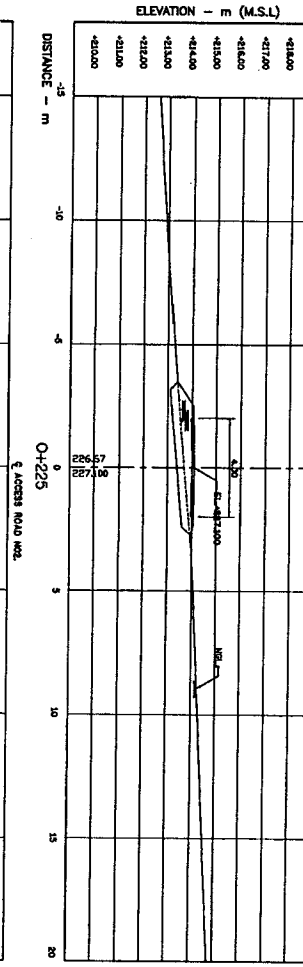
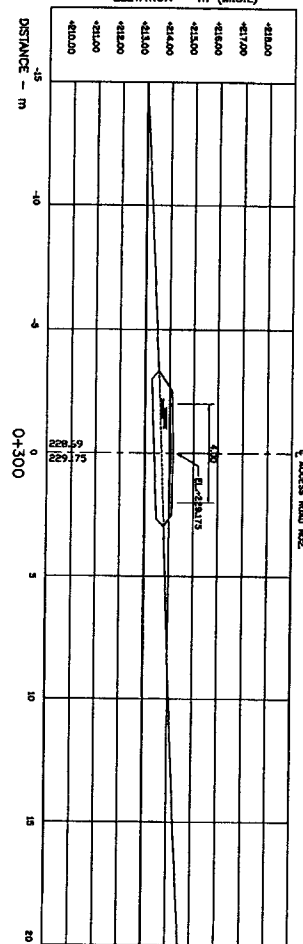
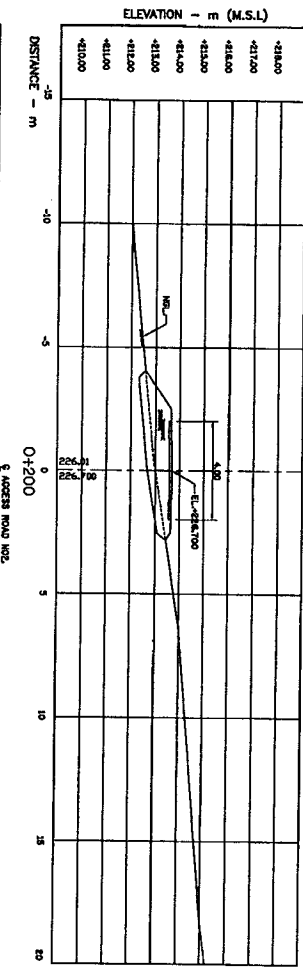
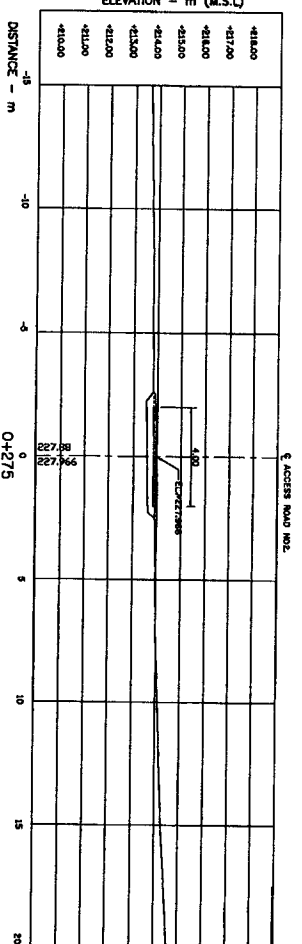
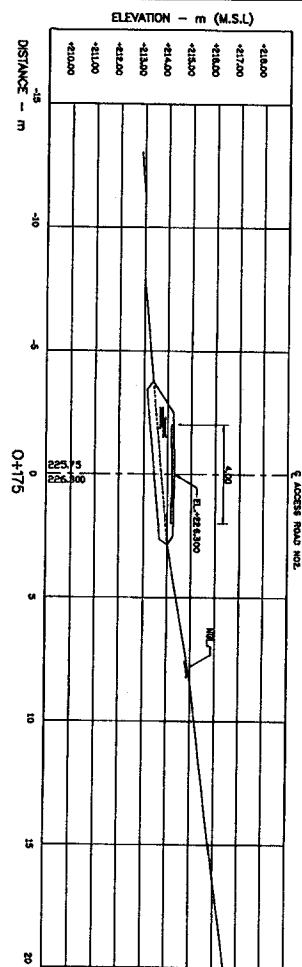
DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 APPROVED: *[Signature]*
 DATE: 22/07/13
 SHEET NO. 125 OF 131



- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SURVEIL, ADJUSTMENTS AND GENERAL NOTES SEE DRAW. NO. MHS-01-01.
- REFERENCE DRAWINGS:
1. ACCESS ROAD NO. 2, PLAN AND PROFILE (SHEET 1/2)
 2. ACCESS ROAD NO. 2, SECTION 1/4-1/75 TO 1/4-1/25
 3. ACCESS ROAD, TYPICAL SECTIONS AND DETAILS (SHEET 1/3 - SHEET 1/4)



NO. 2, SECTION 1/4-000 TO 1/4-150		CIVIL WORKS	
ACCESS ROAD		MAE HONG SON HYDROPOWER PROJECT	
DEPARTMENT OF ENERGY		MINISTRY OF ENERGY	
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY		KINGDOM OF THAILAND	
DESIGNED BY: [Signature]		CHECKED BY: [Signature]	
DATE: 27/06/73		DATE: 27/06/73	
DRAWING NO. MHS-AR-07		SHEET NO. 13	



- NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE DWG. NO. MAE-DR-01.
- REFERENCE DRAWINGS:
1. ACCESS ROAD NO. 2, PLAN AND PROFILE (SHEET 1/2)
 2. ACCESS ROAD NO. 2, PLAN AND PROFILE (SHEET 2/2)
 3. ACCESS ROAD NO. 2, SECTION R/L+0+100 TO R/L+0+150
 4. ACCESS ROAD NO. 2, SECTION R/L+0+150 TO R/L+0+175
 5. ACCESS ROAD NO. 2, SECTION R/L+0+175 TO R/L+0+200
 6. ACCESS ROAD NO. 2, SECTION R/L+0+200 TO R/L+0+225
 7. ACCESS ROAD NO. 2, SECTION R/L+0+225 TO R/L+0+250
 8. ACCESS ROAD NO. 2, SECTION R/L+0+250 TO R/L+0+275
 9. ACCESS ROAD NO. 2, SECTION R/L+0+275 TO R/L+0+300
 10. ACCESS ROAD NO. 2, SECTION R/L+0+300 TO R/L+0+325
 11. ACCESS ROAD NO. 2, SECTION R/L+0+325 TO R/L+0+350
 12. ACCESS ROAD NO. 2, SECTION R/L+0+350 TO R/L+0+375
 13. ACCESS ROAD NO. 2, SECTION R/L+0+375 TO R/L+0+400
 14. ACCESS ROAD NO. 2, SECTION R/L+0+400 TO R/L+0+425
 15. ACCESS ROAD NO. 2, SECTION R/L+0+425 TO R/L+0+450
 16. ACCESS ROAD NO. 2, SECTION R/L+0+450 TO R/L+0+475
 17. ACCESS ROAD NO. 2, SECTION R/L+0+475 TO R/L+0+500
 18. ACCESS ROAD NO. 2, SECTION R/L+0+500 TO R/L+0+525
 19. ACCESS ROAD NO. 2, SECTION R/L+0+525 TO R/L+0+550
 20. ACCESS ROAD NO. 2, SECTION R/L+0+550 TO R/L+0+575
 21. ACCESS ROAD NO. 2, SECTION R/L+0+575 TO R/L+0+600
 22. ACCESS ROAD NO. 2, SECTION R/L+0+600 TO R/L+0+625
 23. ACCESS ROAD NO. 2, SECTION R/L+0+625 TO R/L+0+650
 24. ACCESS ROAD NO. 2, SECTION R/L+0+650 TO R/L+0+675
 25. ACCESS ROAD NO. 2, SECTION R/L+0+675 TO R/L+0+700
 26. ACCESS ROAD NO. 2, SECTION R/L+0+700 TO R/L+0+725
 27. ACCESS ROAD NO. 2, SECTION R/L+0+725 TO R/L+0+750
 28. ACCESS ROAD NO. 2, SECTION R/L+0+750 TO R/L+0+775
 29. ACCESS ROAD NO. 2, SECTION R/L+0+775 TO R/L+0+800
 30. ACCESS ROAD NO. 2, SECTION R/L+0+800 TO R/L+0+825
 31. ACCESS ROAD NO. 2, SECTION R/L+0+825 TO R/L+0+850
 32. ACCESS ROAD NO. 2, SECTION R/L+0+850 TO R/L+0+875
 33. ACCESS ROAD NO. 2, SECTION R/L+0+875 TO R/L+0+900
 34. ACCESS ROAD NO. 2, SECTION R/L+0+900 TO R/L+0+925
 35. ACCESS ROAD NO. 2, SECTION R/L+0+925 TO R/L+0+950
 36. ACCESS ROAD NO. 2, SECTION R/L+0+950 TO R/L+0+975
 37. ACCESS ROAD NO. 2, SECTION R/L+0+975 TO R/L+0+1000



NO.	DATE	REVISIONS	DESIGNED	CHECKED	APPROVED
1					
2					
3					

MAE HONG SON HYDROPOWER PROJECT

CIVIL WORKS

ACCESS ROAD

NO. 2, SECTION R/L+0+175 TO R/L+0+225

DESIGNED BY: [Signature]

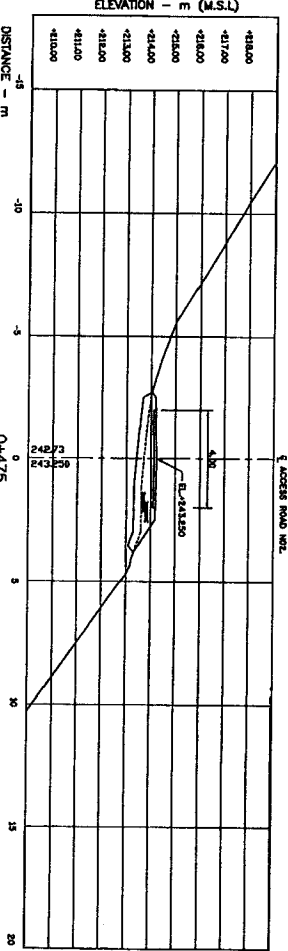
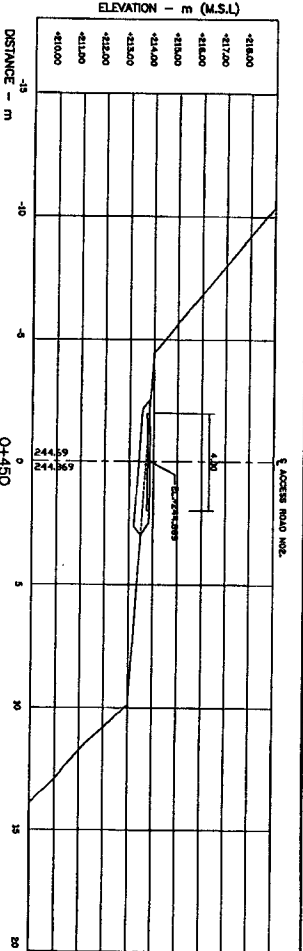
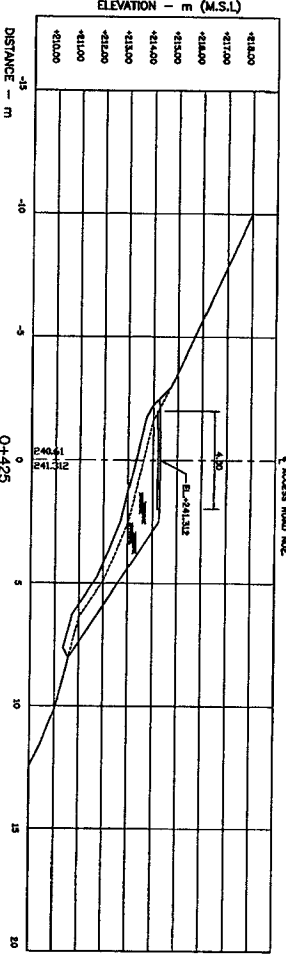
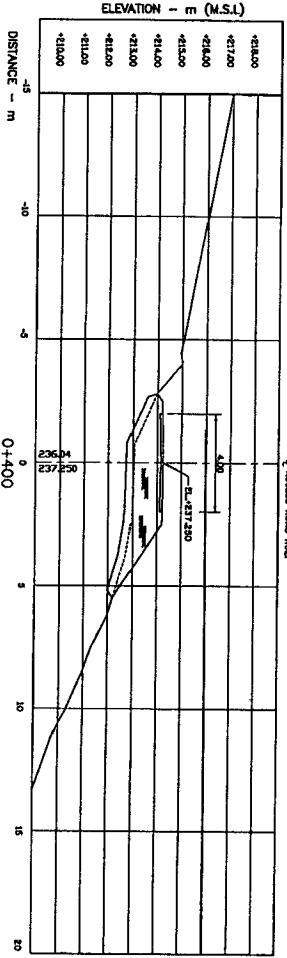
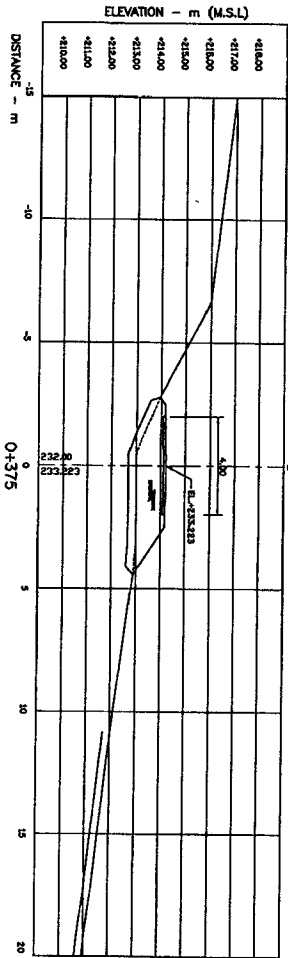
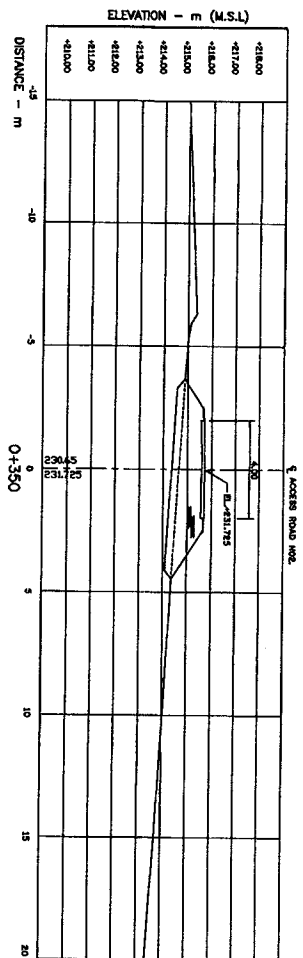
CHECKED BY: [Signature]

APPROVED BY: [Signature]

DATE: 27/02/73

PROJECT NUMBER: MAE-AR-08

SHEET NO. 11



NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.
2. SYMBOLS, ABBREVIATIONS AND DIMENSIONS SEE PWD NO. MHS-34-01.

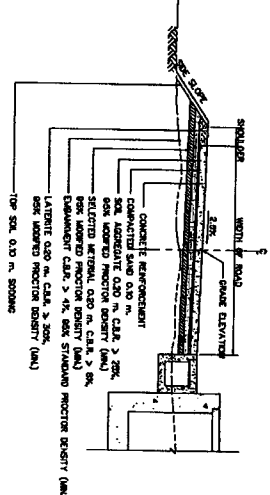
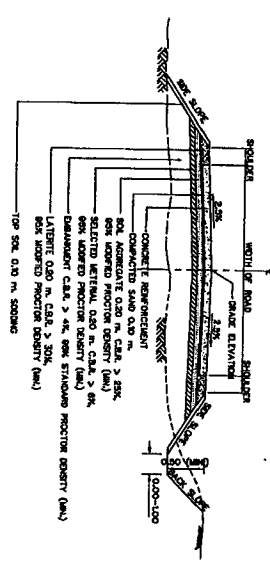
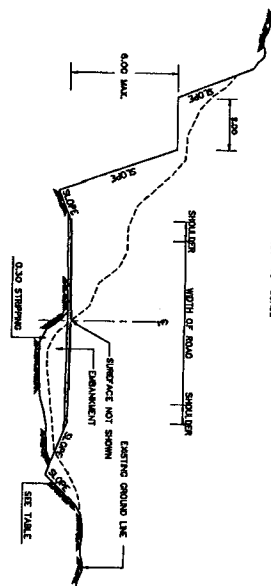
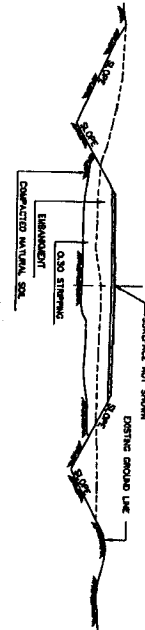
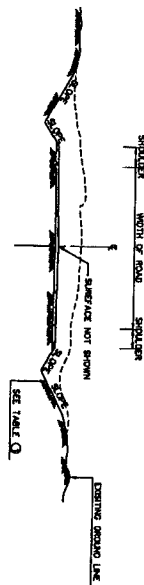
REFERENCE DRAWINGS:
1. ACCESS ROAD, NO. 2, PLAN AND PROFILE (SHEET 2/2)
2. ACCESS ROAD, NO. 2, SECTION DETAILS TO R/L+25
3. ACCESS ROAD, TYPICAL, SECTION AND DETAILS (SHEET 1/3 - SHEET 2/3)



NO.	DATE	REVISION	BY	CHKD	DATE
1					
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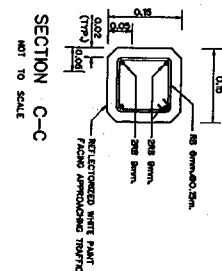
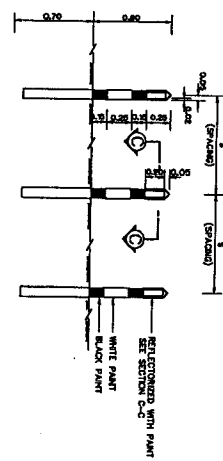
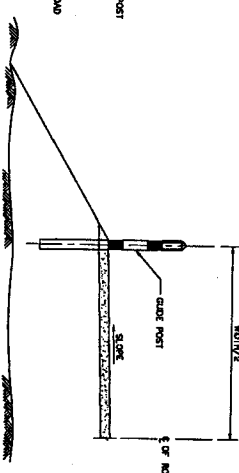
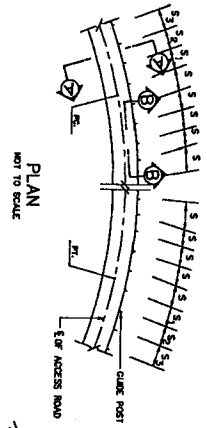
MINISTRY OF ENERGY
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
MAE HONG SON HYDROPOWER PROJECT
CIVIL WORKS
ACCESS ROAD
NO. 2, SECTION R/L+350 TO R/L+475

DESIGNED BY: MAE HONG SON
CHECKED BY: MAE HONG SON
DATE: 27/06/73
DRAWN BY: MAE HONG SON
DATE: 27/06/73
SCALE: 1:100
SHEET NO. 10 OF 13



TYPICAL SECTION OF ACCESS ROAD TYPE 1
NOT TO SCALE

TYPICAL SECTION OF ACCESS ROAD TYPE 2
NOT TO SCALE



SLOPE IN CUT AND FILL SECTIONS

EXISTING GROUND SLOPE	CUT	FILL	CUT	FILL
15	15	15	15	15
OVER 1:1	OVER 1:1	OVER 1:1	OVER 1:1	OVER 1:1
1:1 - 1:1.5	1:1	1:1	1:1	1:1
1:1.5 - 1:2	1:1	1:1	1:1	1:1
1:2 - 1:3	1:1	1:1	1:1	1:1
LOWER 1:3	1:1	1:1	1:1	1:1

1/ = FOR ROBERTS CASES APPROVED BY FIELD ENGINEER

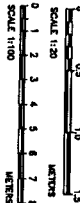
TABLE

ROADS	SPACING OF GUIDE POSTS
15 - 74	5
75 - 89	4
90 - 100	3
101 - 110	2
111 - 120	1
121 - 130	0
131 - 140	0
141 - 150	0
151 - 160	0
161 - 170	0
171 - 180	0
181 - 190	0
191 - 200	0
201 - 210	0
211 - 220	0
221 - 230	0
231 - 240	0
241 - 250	0
251 - 260	0
261 - 270	0
271 - 280	0
281 - 290	0
291 - 300	0
301 - 310	0
311 - 320	0
321 - 330	0
331 - 340	0
341 - 350	0
351 - 360	0
361 - 370	0
371 - 380	0
381 - 390	0
391 - 400	0
401 - 410	0
411 - 420	0
421 - 430	0
431 - 440	0
441 - 450	0
451 - 460	0
461 - 470	0
471 - 480	0
481 - 490	0
491 - 500	0
501 - 510	0
511 - 520	0
521 - 530	0
531 - 540	0
541 - 550	0
551 - 560	0
561 - 570	0
571 - 580	0
581 - 590	0
591 - 600	0
601 - 610	0
611 - 620	0
621 - 630	0
631 - 640	0
641 - 650	0
651 - 660	0
661 - 670	0
671 - 680	0
681 - 690	0
691 - 700	0
701 - 710	0
711 - 720	0
721 - 730	0
731 - 740	0
741 - 750	0
751 - 760	0
761 - 770	0
771 - 780	0
781 - 790	0
791 - 800	0
801 - 810	0
811 - 820	0
821 - 830	0
831 - 840	0
841 - 850	0
851 - 860	0
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871 - 880	0
881 - 890	0
891 - 900	0
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921 - 930	0
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981 - 990	0
991 - 1000	0

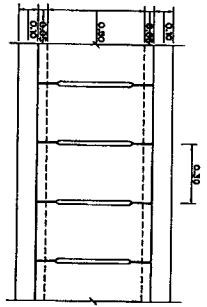
SECTION B-B
NOT TO SCALE

SECTION C-C
NOT TO SCALE

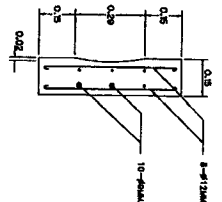
- NOTES :
1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS, UNLESS OTHERWISE SHOWN.
 2. THE PROPERTIES OF MATERIALS NOT INDICATED IN THE DRAWING AND ROAD CONSTRUCTION METHODS SHALL CONFORM TO CONSTRUCTION STANDARDS OF THAILAND - MINISTRY OF INTERIOR - (ONLY IN RELATED PART).
 3. CLEANING AND GRADING METHOD SHALL CONFORM TO THE REQUIREMENTS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.
 4. THE CUT SECTION SHALL BE PROVIDED FOR ROAD IN CUT SECTION AND IN FILL SECTION WHERE HEIGHT OF FILL FROM CHANNEL WAY DOES NOT EXCEED 1.0 METER.
 5. ACCESS ROAD ALIGNMENT MAY BE RE-ADJUSTED TO SUIT THE FIELD CONDITIONS, BUT UNDER THE APPROVAL OF FIELD ENGINEER.
 6. THE FIELD ENGINEER MAY ORDER SIDE SLOPE IN DIFFERENCE FROM TYPICALLY SHOWN IN THIS DRAWING.
 7. ALL PITS ARE GROOVE AND TONGUE TYPE WHICH SPECIFIED IN THE TECHNICAL SPECIFICATIONS LOCATION AND SIZE OF ALL PITS SHALL BE AS SHOWN IN PLAN AND PROFILE MAY BE RE-ADJUSTED BY FIELD ENGINEER TO FIT WITH THE TYPICAL.
 8. ALL ALL PITS SHALL BE INSTALLED IN UNPAVED LENGTH WITHOUT FIELD CUTTING.
 9. INVERT ELEVATIONS OF ALL PITS SHALL BE SET ON SITE.
 10. THE LENGTH SHOWN IN PLAN AND PROFILE SHEETS MAY BE VARIED TO SUIT FIELD CONDITIONS.
 11. THE PAYMENT OF ACCESS ROAD IS CONCRETE SURFACE TREATMENT, PLAN AND PROFILE DRAWING ON AS DIRECTED BY THE CONTRACTOR AND APPROVED BY FIELD ENGINEER.



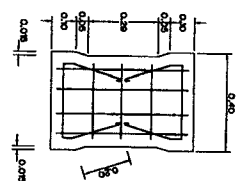
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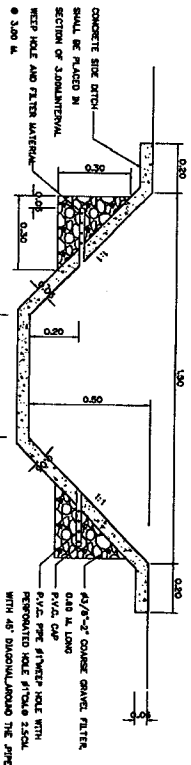
PLAN OF SIDE DITCH TYPE "1" WITH R.C. COVER
SCALE 1:12.5



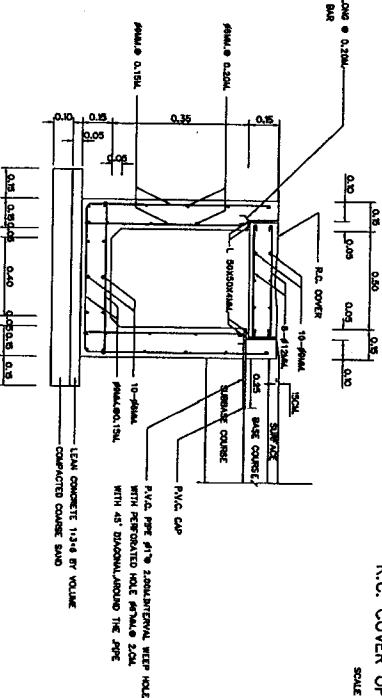
SECTION
R.C. COVER OF R.C. DITCH TYPE "1"
SCALE 1:10



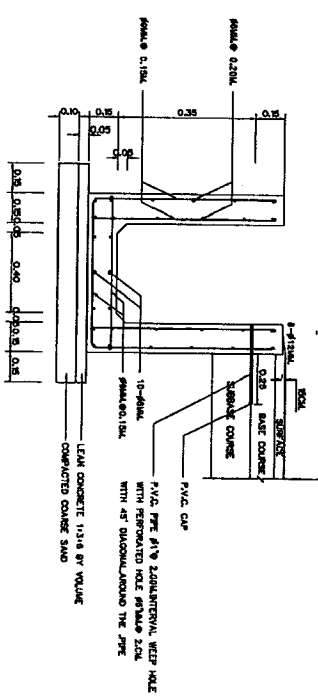
PLAN



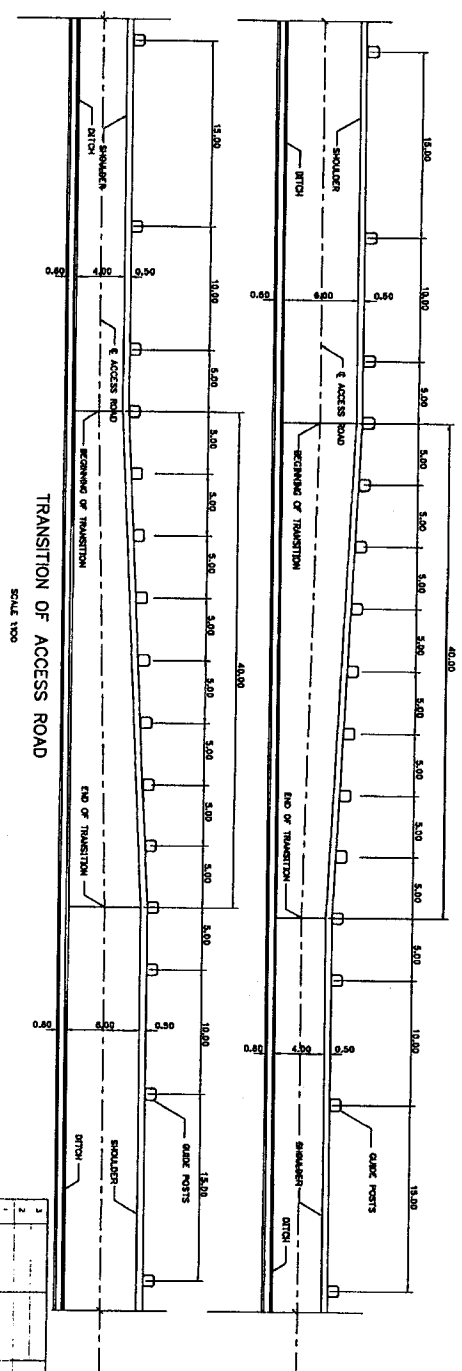
SIDE DITCH TYPE "3"
SCALE 1:10



SIDE DITCH TYPE "1"
NOT TO SCALE

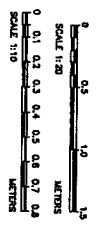


SIDE DITCH TYPE "2"
NOT TO SCALE



TRANSITION OF ACCESS ROAD
SCALE 1:50

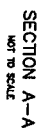
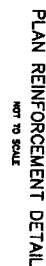
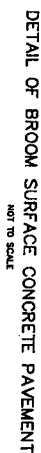
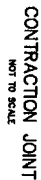
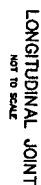
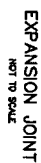
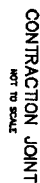
NOTES:
1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS.
2. REINFORCEMENT BARS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
3. SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SEE D.M. NO. MHS-CH-01.



KINGDOM OF THAILAND
MINISTRY OF ENERGY
DEPARTMENT OF ALTERNATIVE ENERGY DEVELOPMENT AND EFFICIENCY
MAE HONG SON HYDROPOWER PROJECT

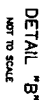
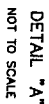
CIVIL WORKS
ACCESS ROAD
TYPICAL SECTIONS AND DETAILS

NO.	DATE	REVISION	BY	CHKD.
1	27/04/13	ISSUED	MAE	MAE
2	27/04/13	ISSUED	MAE	MAE
3	27/04/13	ISSUED	MAE	MAE



TEMPERATURE STEEL

THE BARS-DOWEL BARS



TYPICAL SECTIONS AND DETAILS

NOTES :

- [illegible]

PREPARATION OF JOINT FOR MASTIC JOINT SEALER

1. THE JOINT SHALL BE CLEANED WITH A BRUSH TO GET RID OF ALL MUDS OR GREASE. THE JOINT SHALL BE COMPLETELY DRY.
 2. PRIMER SHALL BE APPLIED TO THE JOINT WITH A BRUSH OR SPATULA. THE JOINT SHALL BE LET DRY BEFORE THE COUPLING OF MASTER JOINT SEALER WHICH HAS BEEN MIXED AND OBSERVED BY MEANS OF HEAT CONDUCTIVITY TO THE SPECIFIED TEMPERATURE.
 3. JOINTS SHALL BE CUT AND MASTER JOINT SEALER SHALL BE STOPPED AS SOON AS POSSIBLE.
- MASTER JOINT SEALER SHALL BE STOPPED WITH SEALANT APPLYING MACHINE.