

AFTERCARE STUDY
ON
TRAFFIC OPERATION PLAN FOR ROADS
IN
THE KINGDOM OF THAILAND
FINAL REPORT
(DRAWINGS)

NOVEMBER 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

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AFTERCARE STUDY
ON
TRAFFIC OPERATION PLAN FOR ROADS
IN
THE KINGDOM OF THAILAND

FINAL REPORT
(DRAWINGS)

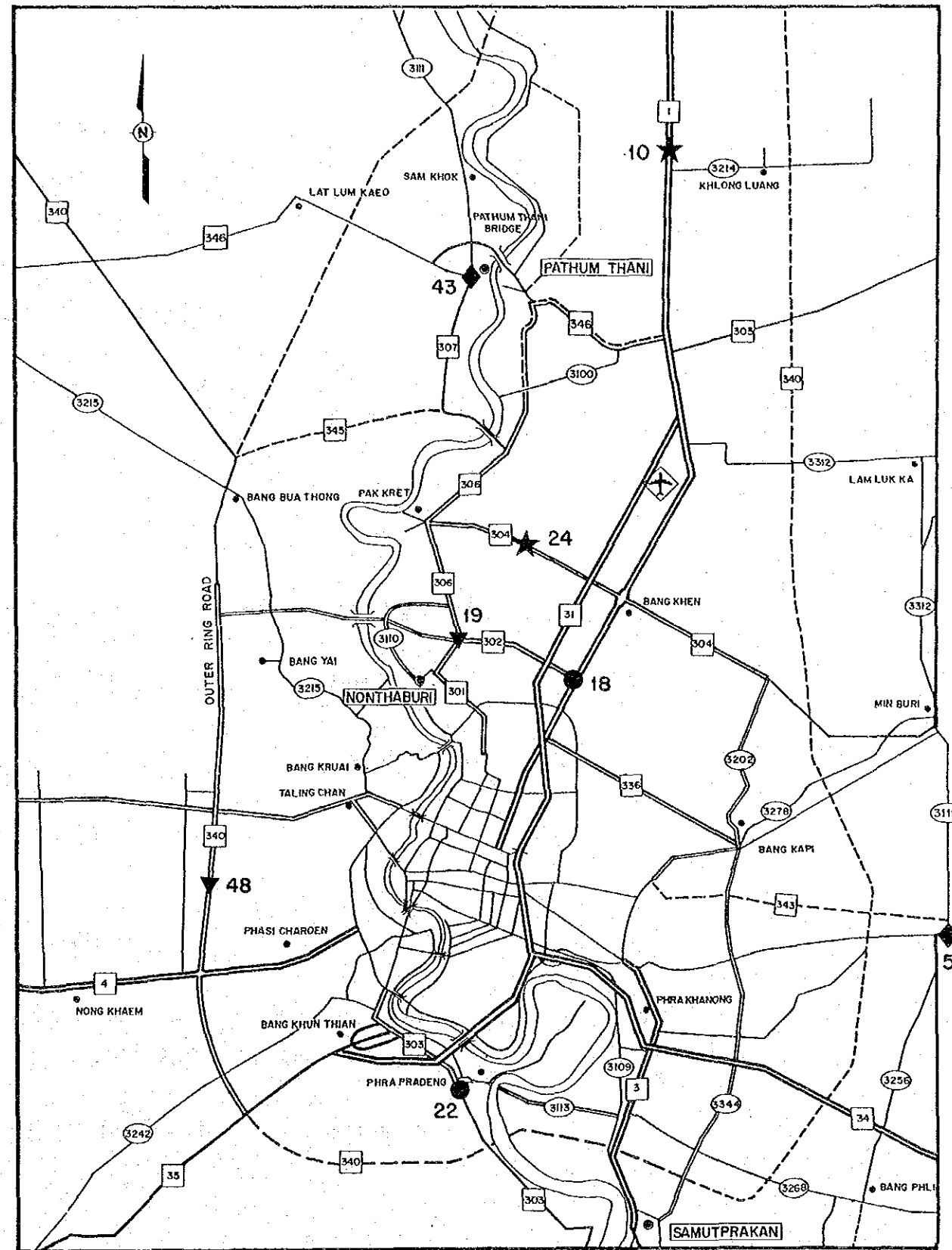
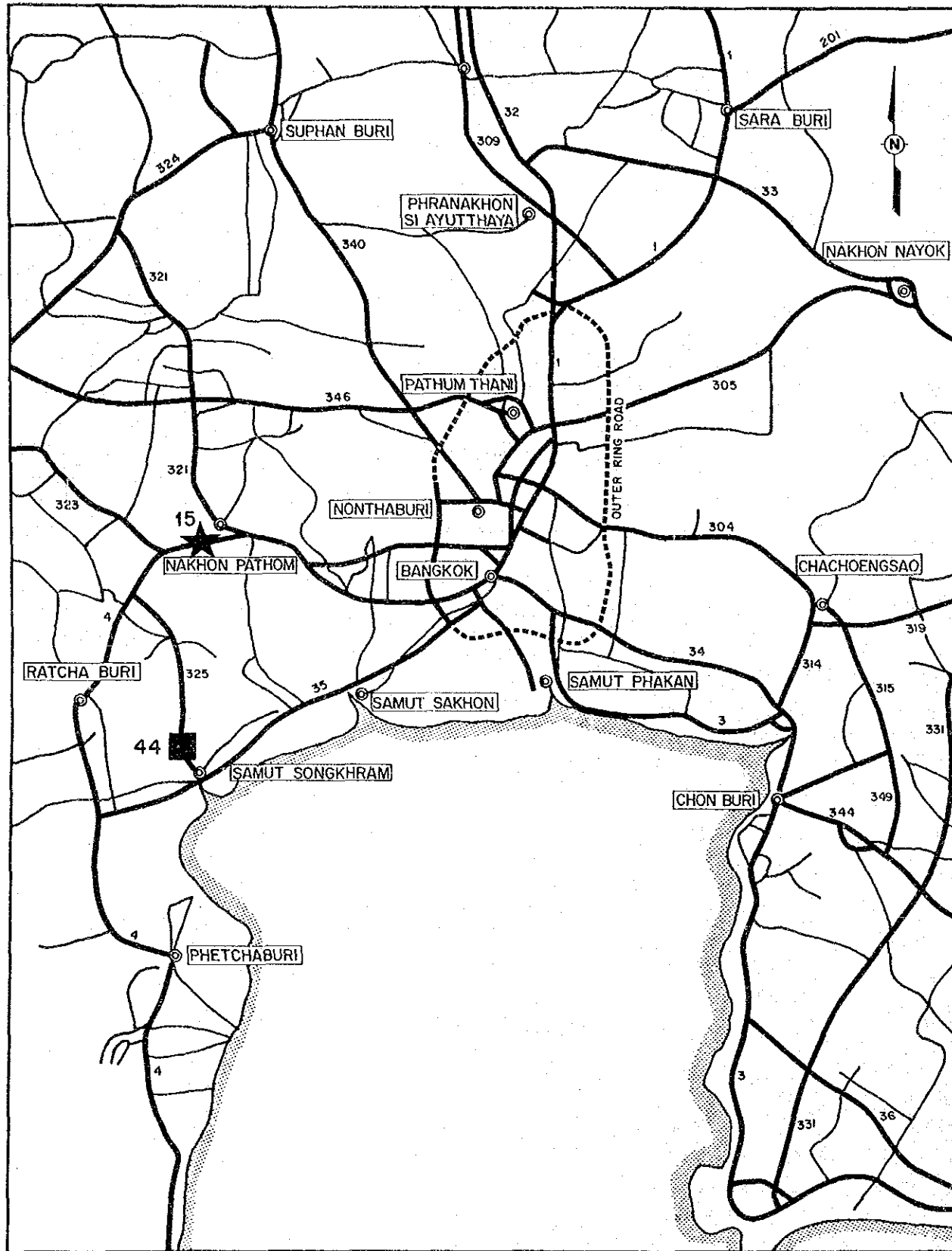
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23306

LOCATION MAP

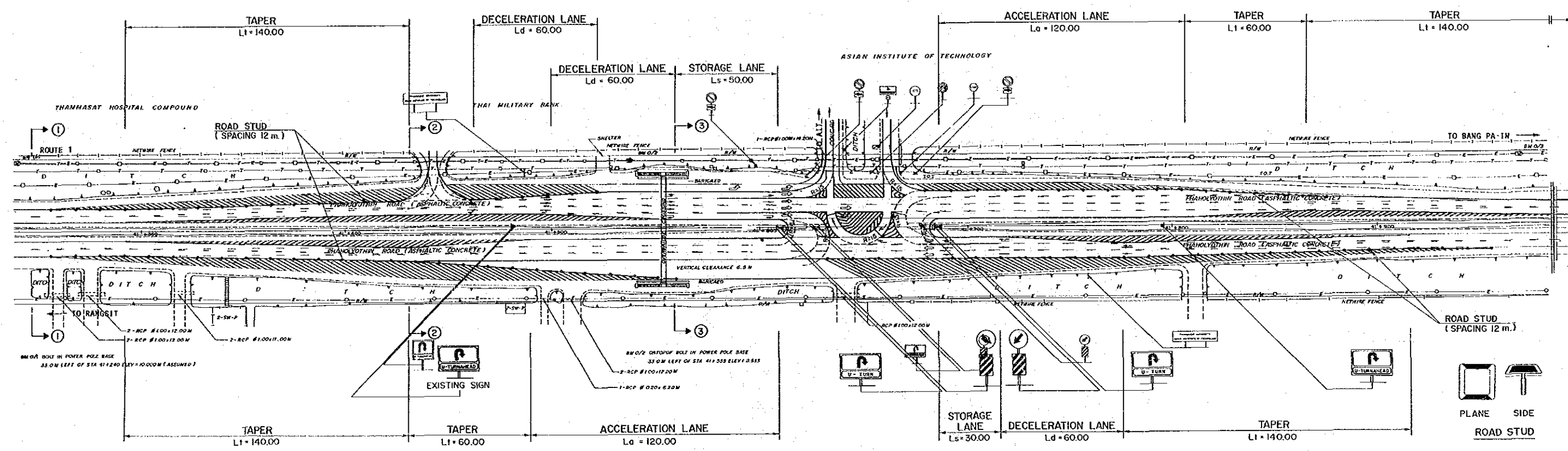


- LEGEND:**
- | | |
|--|---|
| ■ IMPROVEMENT OF ROADWAY SECTION | ▼ GRADE SEPARATION |
| ● IMPROVEMENT OF SIGNALIZED INTERSECTION | ★ IMPROVEMENT OF INTERSECTION AND MEDIAN OPENINGS |
| ◆ SIGNALIZATION AND CHANELIZATION | |

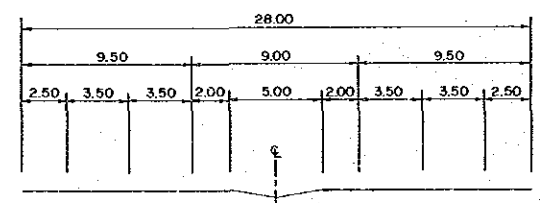
INDEX

IMPROVEMENT PLAN

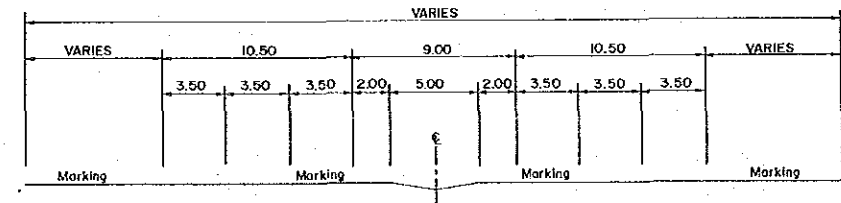
			SHEET NO.
S-10	ENT. A.I.T.	ROADWAY SECTION / R 1	1
S-15	SANAMCHAN PALACE	SMALL INTERSECTION / R 4	2
S-18	KASET SAT	INTERSECTION / R 302 / R 1	3
S-19	KHAE RAI	INTERSECTION / R 302 / R 306	4
S-22	PRAPADAENG	INTERSECTION / R 303 / R 3104	5
S-24	KHLONG PRAPA	INTERSECTION / R 304 / BMA. RD.	6
S-43	PATHUM WILAI	INTERSECTION/R307./R3035/R3111	7
S-44	DAMNOEN SADUAK	ROADWAY SECTION / R 325	8
S-48	BANG WAEK	INTERSECTION / R 340 / BMA. RD. SHORT TERM PLAN	9
S-48	BANG WAEK	INTERSECTION/ R 340 / BMA. RD. LONG TERM PLAN	10
S-52	ONN NUCH-3119	INTERSECTION / R 3119 / BMA. RD.	11



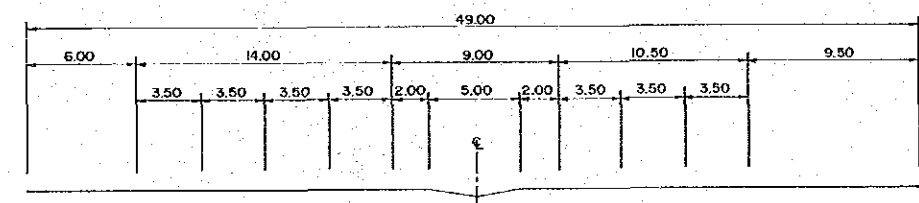
- LEGEND:**
- TELEPHONE LINE W/P Pole
 - POWER LINE W/P Pole
 - WATER PIPING W/ STOPPER
 - STORAGE W/ JUNCTION
 - CABLE CONDUIT W/ MANHOLE
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - TRAFFIC SIGNAL
 - BUS STOP
 - TAXI STAND
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POST BOX
 - TRAFFIC CONTROL SWITCH BOARD
 - TELEPHONE KIOSK
 - UTILITY BOX
 - BUS SHELTER
 - POWER POLE W/ LAMP
 - PARKING METER
 - ①-①-① 3 STOREY CONCRETE FRAME ENG W/ 1ST 5000 CONCRETION
 - ②-②-② 2 STOREY WOOD FRAME, POOR CONCRETION



SECTION ①-①

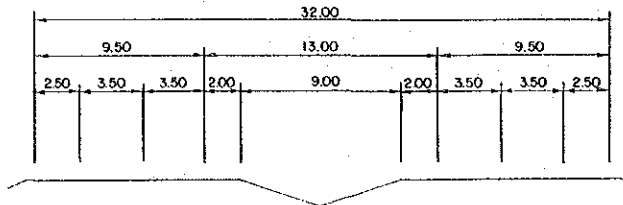


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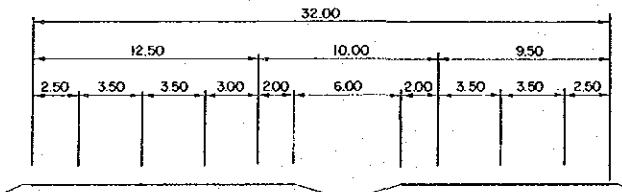
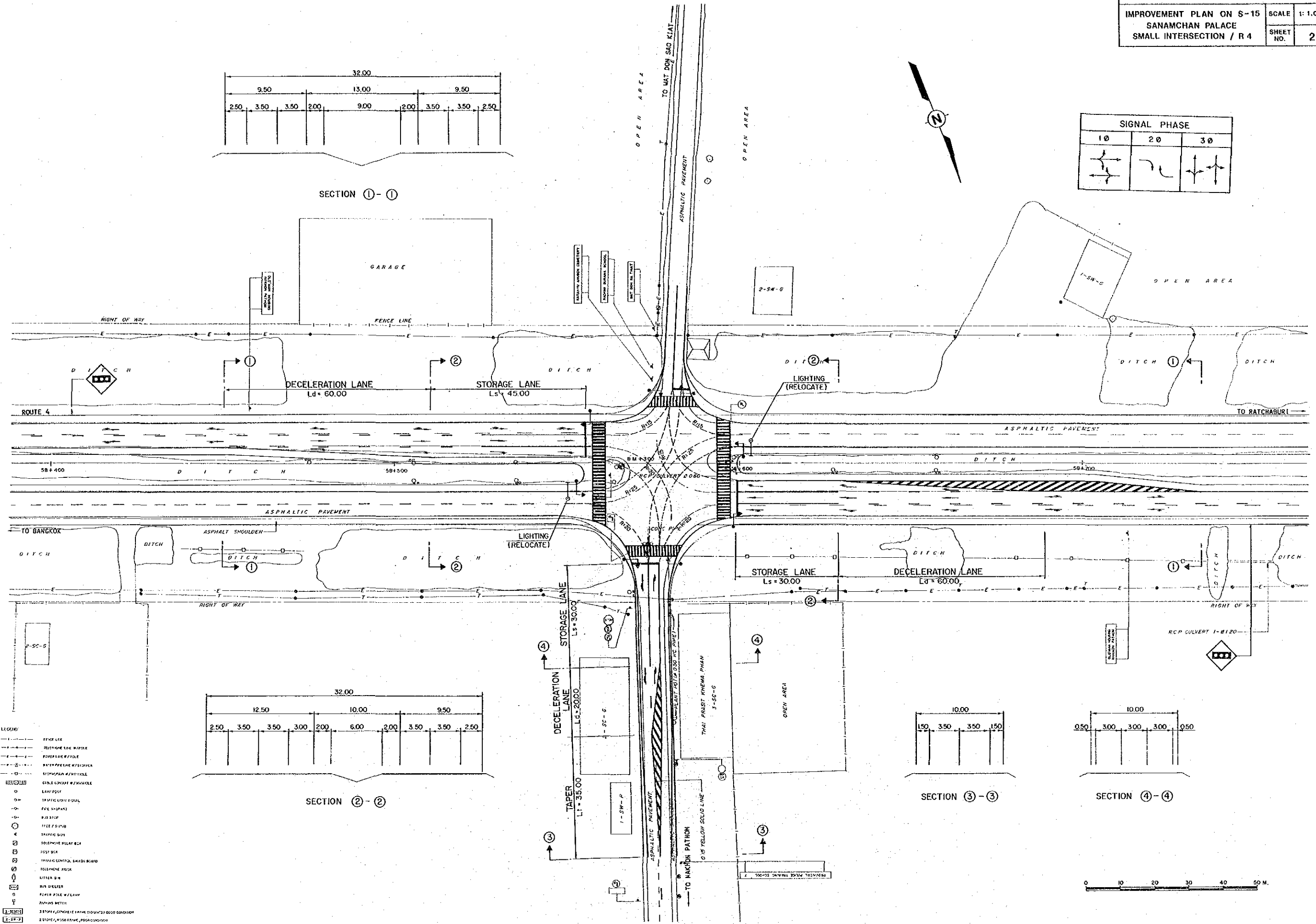
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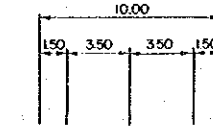


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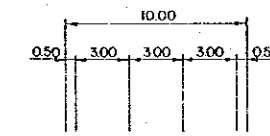
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SECTION ②-②



SECTION ③-③

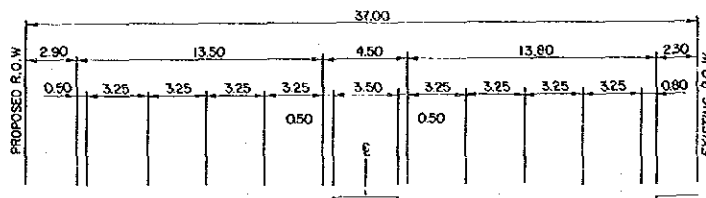


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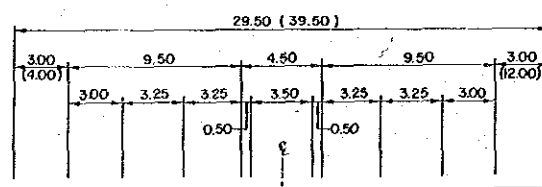
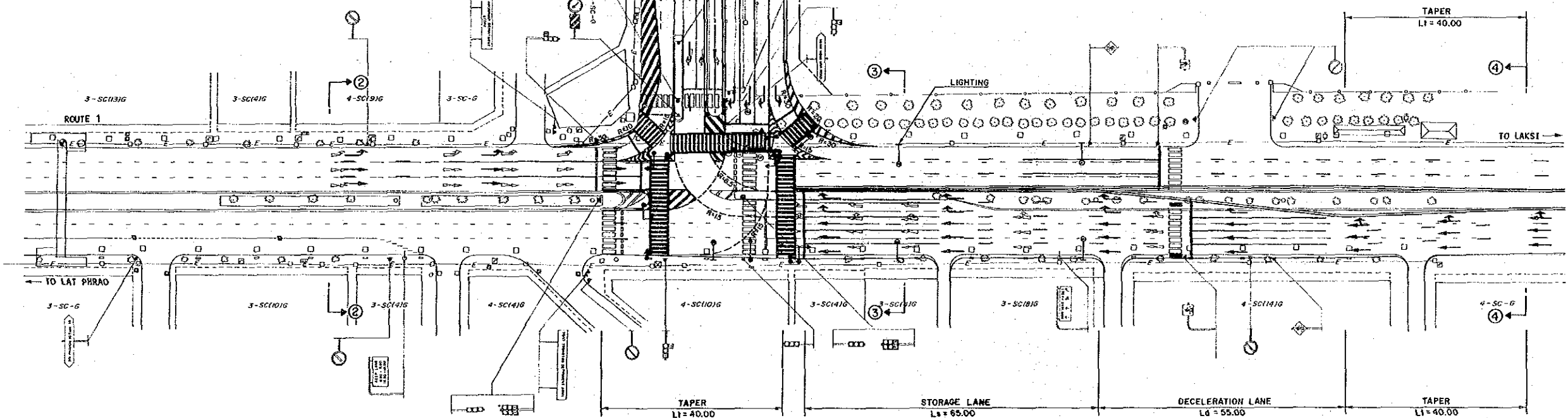
- LEGEND:
- FENCE LINE
 - TELEPHONE LINE W/POLE
 - POWER LINE W/POLE
 - WATER PIPE LINE W/SIGNECK
 - SLOPE LINE W/PERCENT
 - GROUND CONTOUR W/MAJOR
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE SIGNAL
 - BUS STOP
 - TREE P/STUB
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - TEST BOX
 - TRAFFIC CONTROL SIGNAL BOARD
 - TELEPHONE POLE
 - LITTER BIN
 - BOX CULVERT
 - POWER POLE W/LAMP
 - WATER METER
 - ①-① 330MM CONCRETE (1:1.5) 150MM DIA. 3000mm
 - ②-② 210MM CONCRETE (1:1.5) 150MM DIA. 3000mm



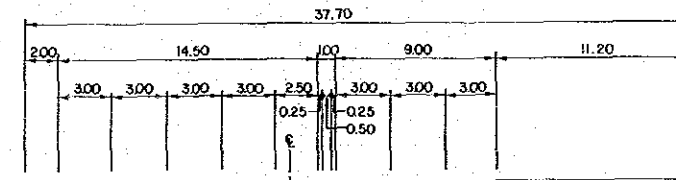
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SECTION ① - ①



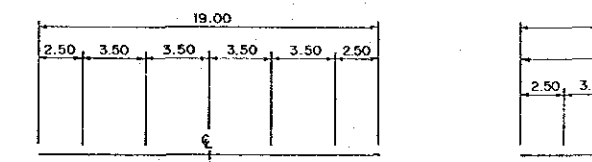
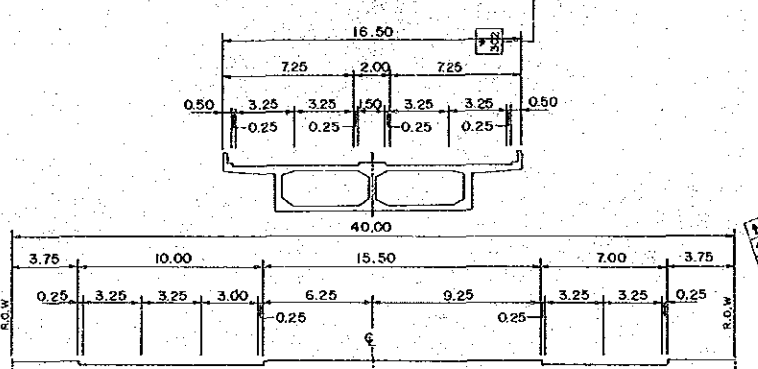
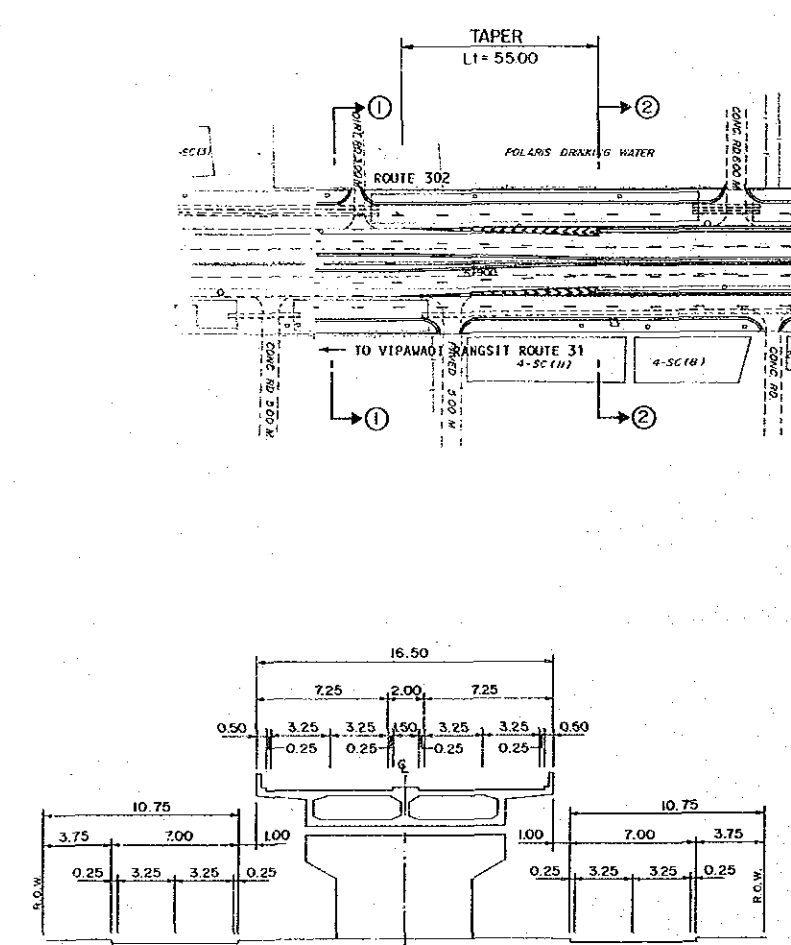
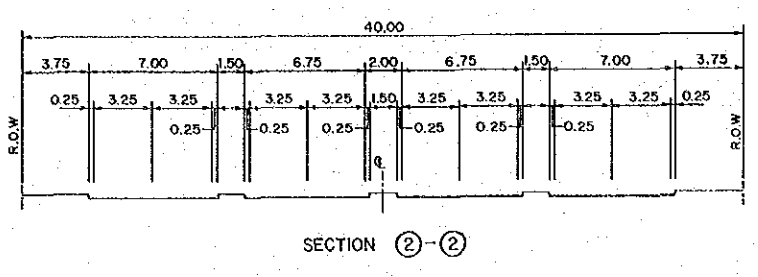
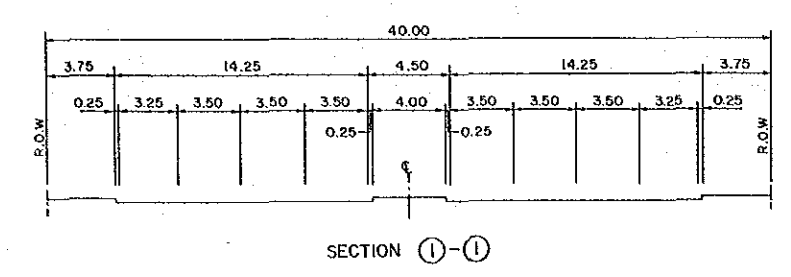
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(SECTION ④ - ④)



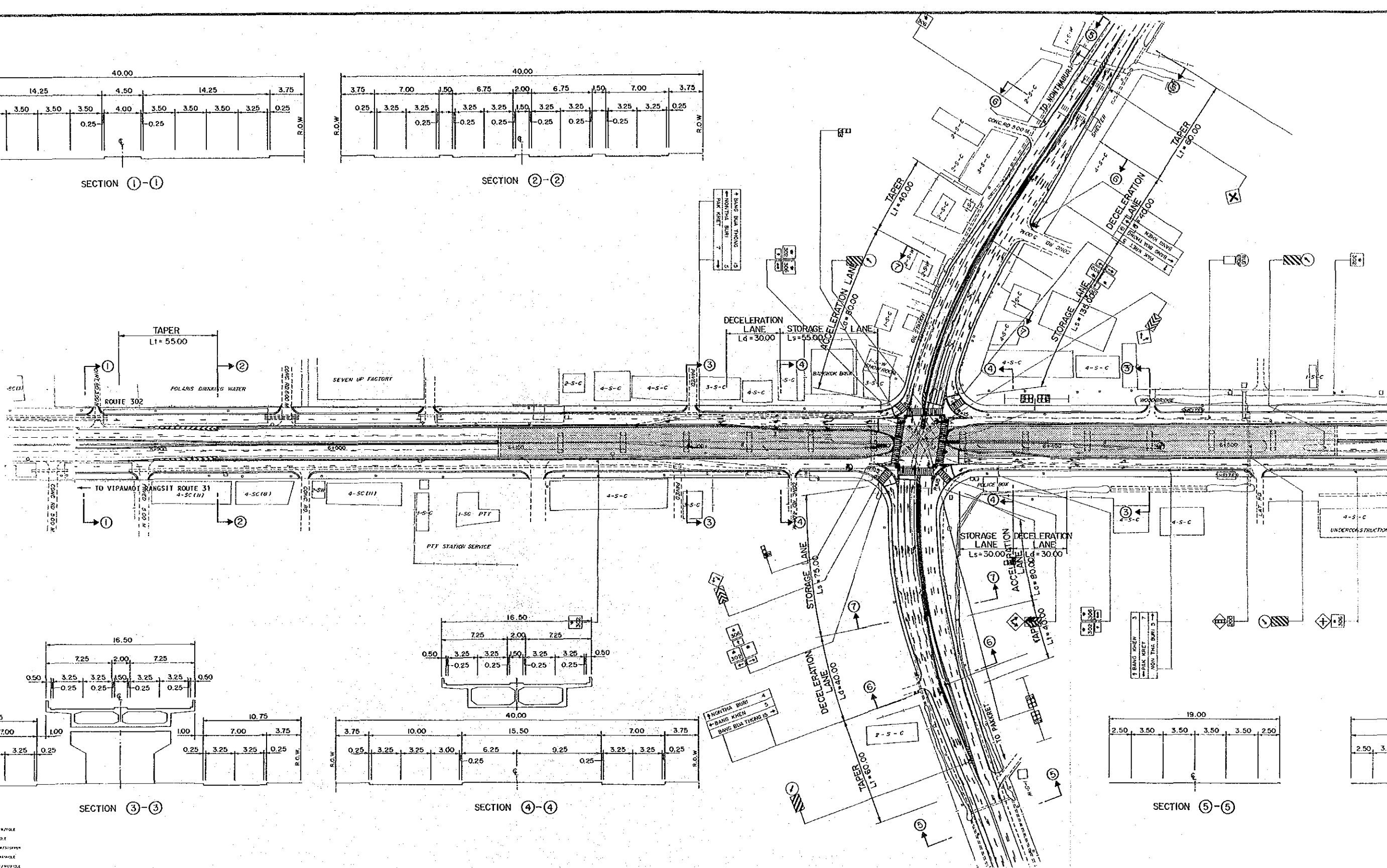
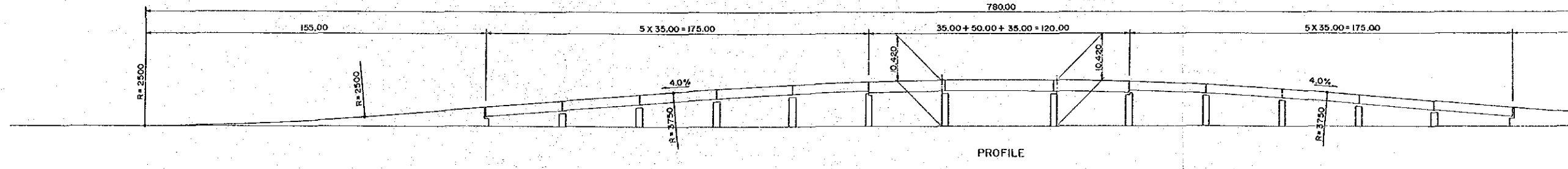
SECTION ③ - ③

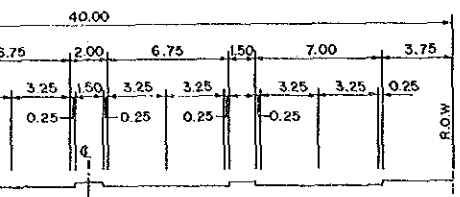


- LEGEND:
- FENCE LINE
 - TELEPHONE LINE W/ POLE
 - POWER LINE W/ POLE
 - WATER PIPE LINE W/ VALVE
 - SLOPE GRADE W/ VALVE
 - GENE CONDUIT W/ VALVE
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TIDE / LEVEL
 - TRAFFIC SIGN
 - TELEPHONE SIGNAL BOX
 - POST BOX
 - TRAFFIC CONTROL SIGNAL BOARD
 - TELEPHONE KIOSK
 - METER BOX
 - BUS SHELTER
 - POWER POLE W/ LAMP
 - PAINTED MARK
 - 3.5% SLOPE (ADJUSTED) LANE TO SATISFY GOOD CONDITION
 - 3.5% SLOPE (ADJUSTED) ROAD CONDITION



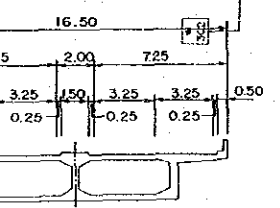
- LEGEND:
- EDGE LINE
 - TELEPHONE LINE W/POLE
 - POWER LINE W/POLE
 - WATER TOWER LINE W/POLE
 - TELEVISION LINE W/POLE
 - FIRE HYDRANT W/POLE
 - LAMP POST
 - TRAFFIC SIGNAL
 - FIRE ALARM
 - BUS STOP
 - TREE / SIGN
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POST BOX
 - TRAFFIC CONTROL LIGHT SIGNAL
 - TELEPHONE KIOSK
 - LETTER BOX
 - BUS STOP
 - POWER POLE W/FLUOR
 - POWER POLE
 - 3.5% CONCRETE PAVEMENT (2.5% SLOPE CONDITION)
 - 1.5% ASPHALT PAVEMENT (1.5% SLOPE CONDITION)



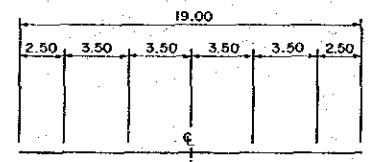


SECTION 2-2

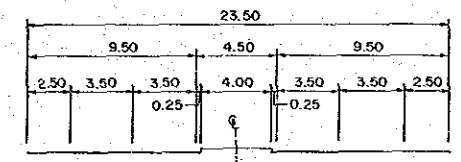
SIGNAL PHASE		
10	20	30



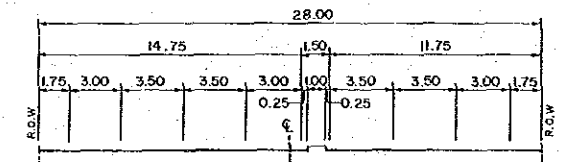
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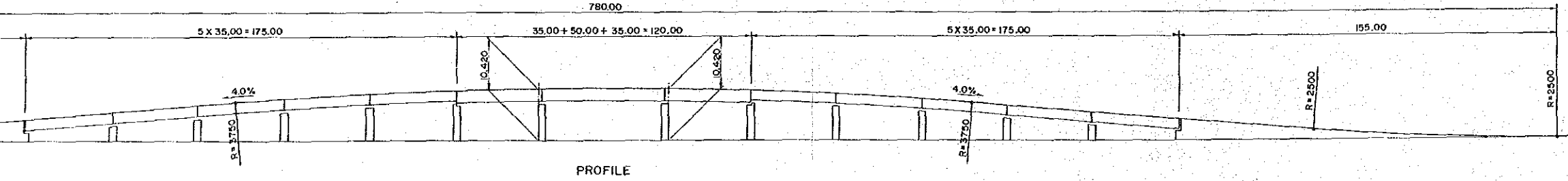
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SECTION 6-6



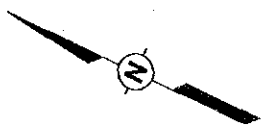
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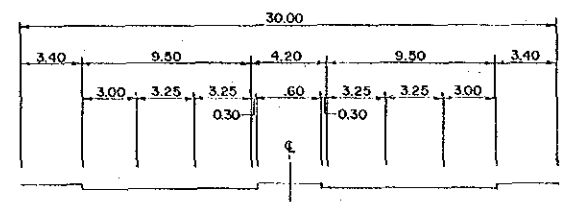
PROFILE



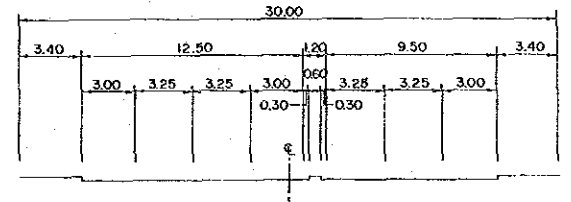
- LEGEND:
- FENCE LINE
 - TELEPHONE LINE W/POLE
 - POWER LINE W/POLE
 - WATER PIPE LINE W/STOPPER
 - SEWER MAIN W/STOPPER
 - CABLE DUCT W/STOPPER
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TANK / BIVOUAC
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POST BOX
 - TRAFFIC CONTROL SIGNAL BOARD
 - TELEPHONE BOOTH
 - LIGHT BOX
 - BUS SHELTER
 - POWER POLE W/FLAW
 - PAWING BESELER
 - 1 STONE, CONCRETE FRAME (LID WITH) 60/90 CM DIAMETER
 - 2 STONE, WOOD FRAME, POOR CONDITION



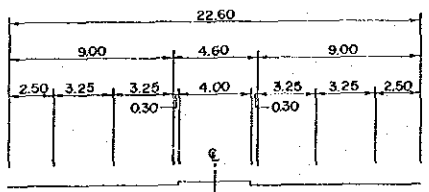
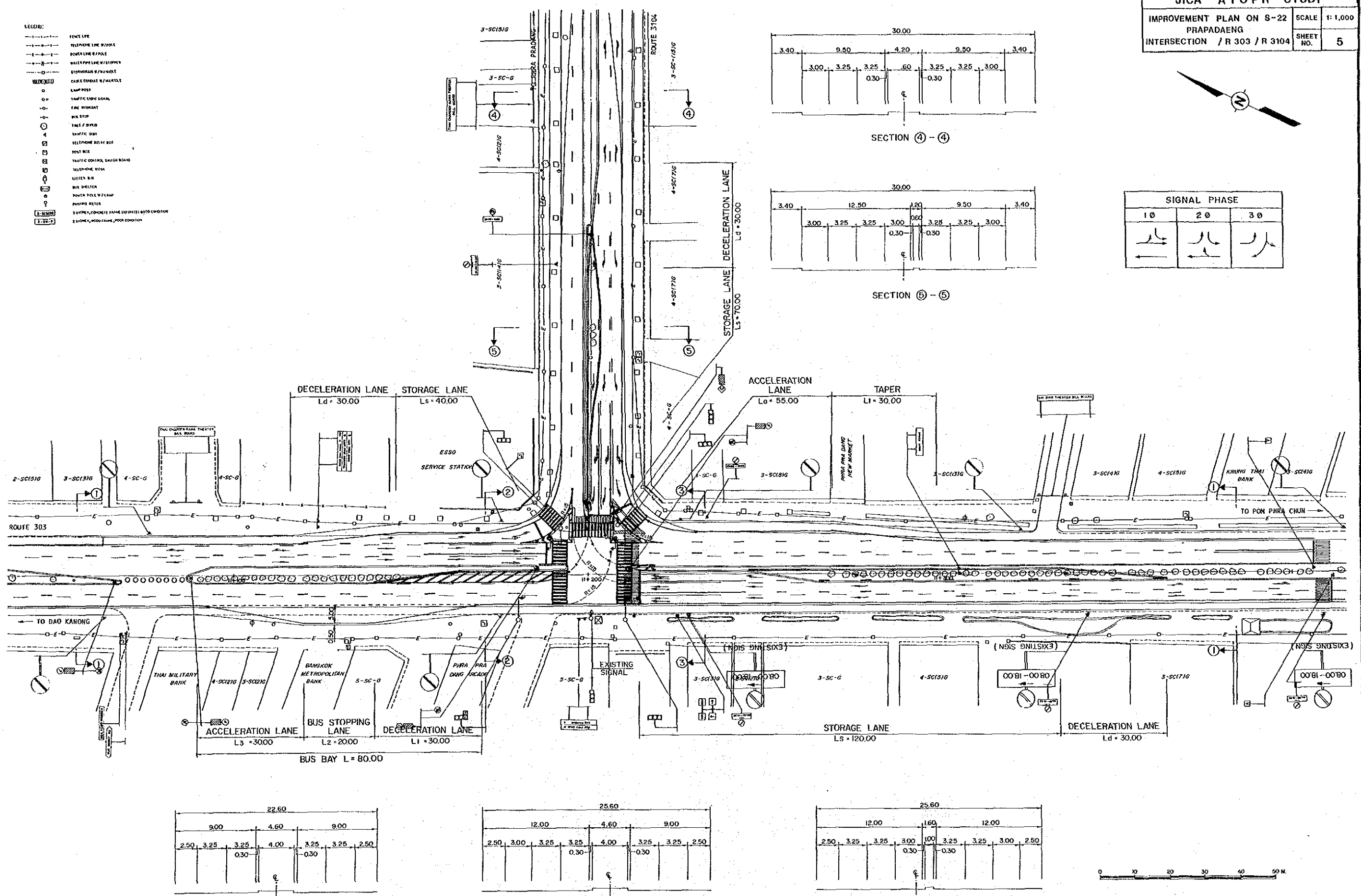
SIGNAL PHASE		
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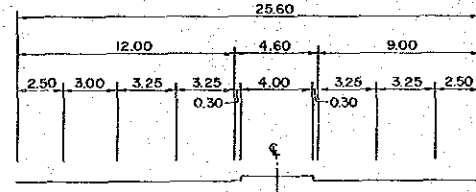
SECTION ④ - ④



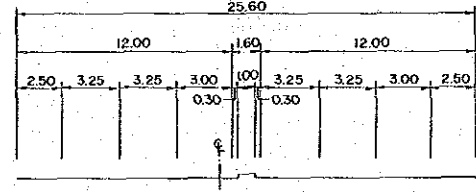
SECTION ⑤ - ⑤



SECTION ① - ①

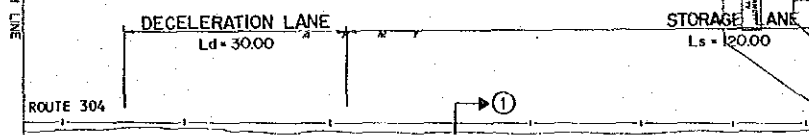
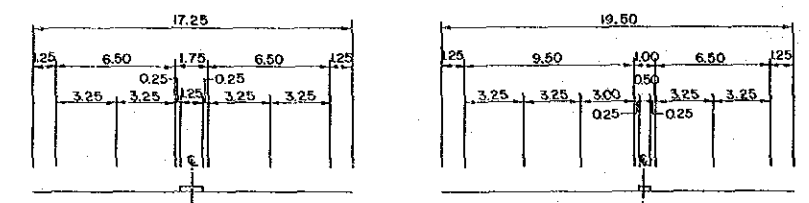


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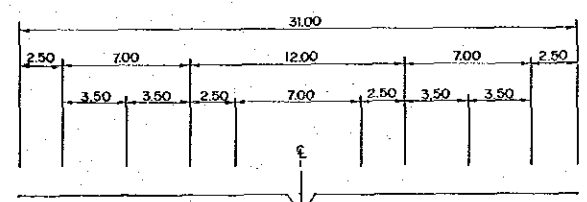
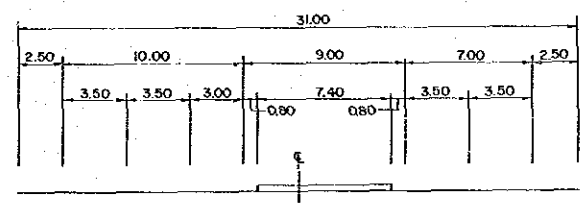
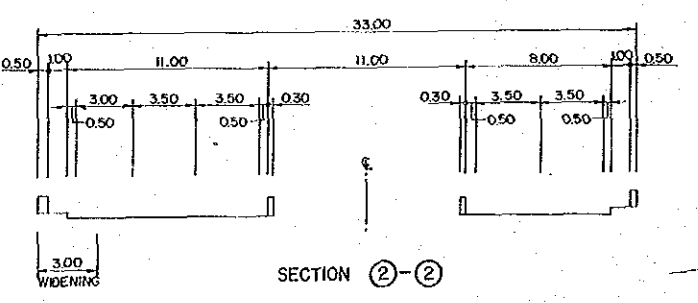
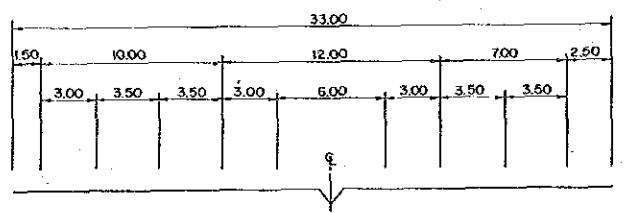


SECTION ③ - ③



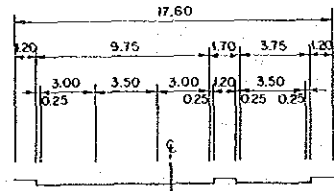
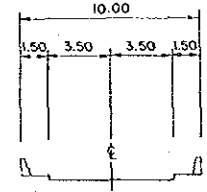
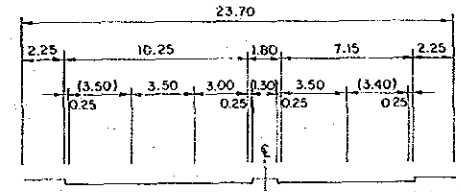
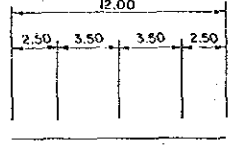
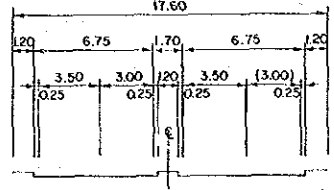
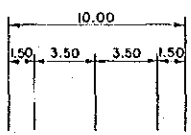
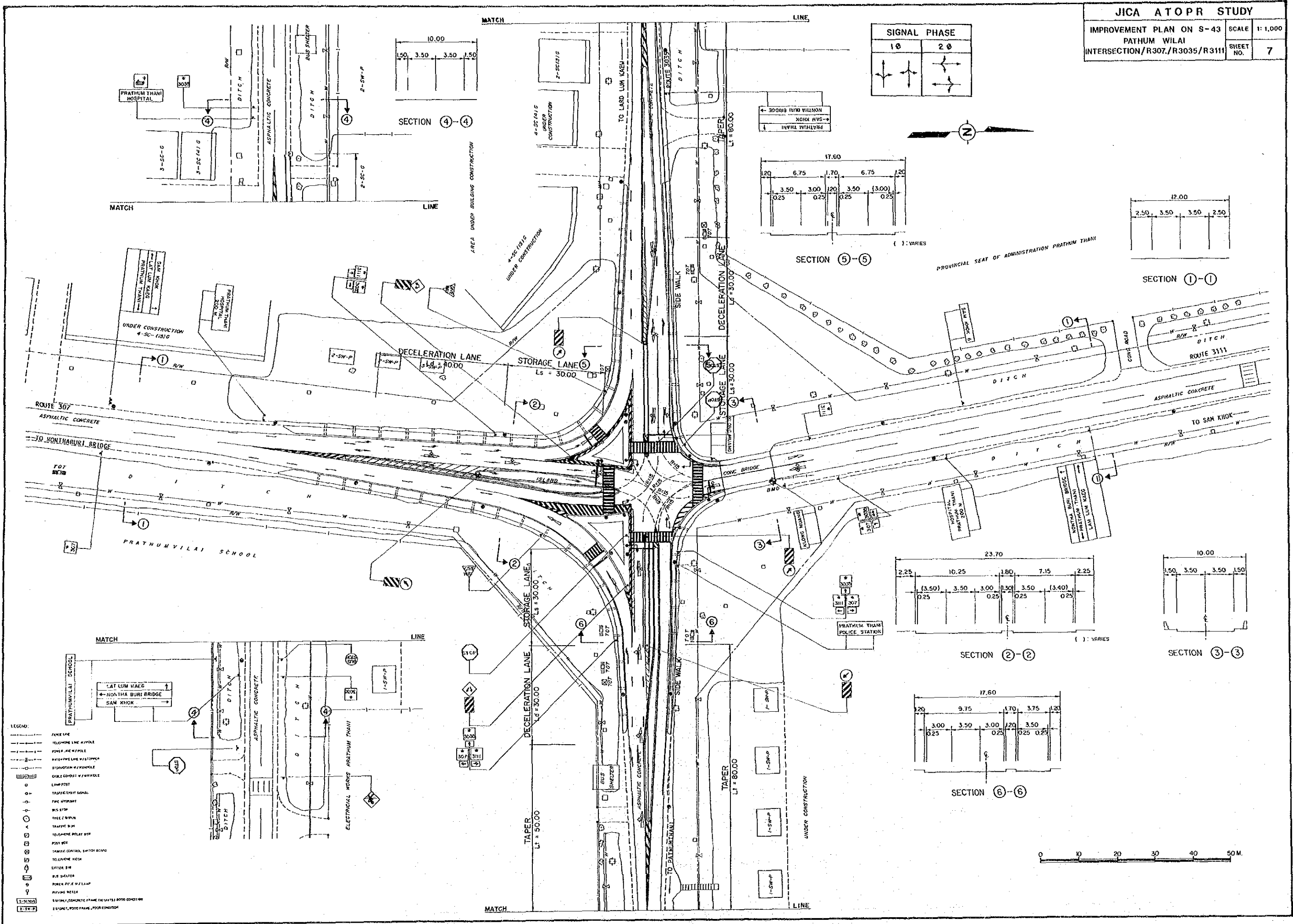
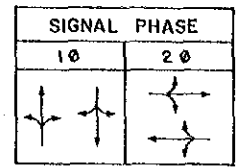


SIGNAL PHASE		
1 Ø	2 Ø	3 Ø



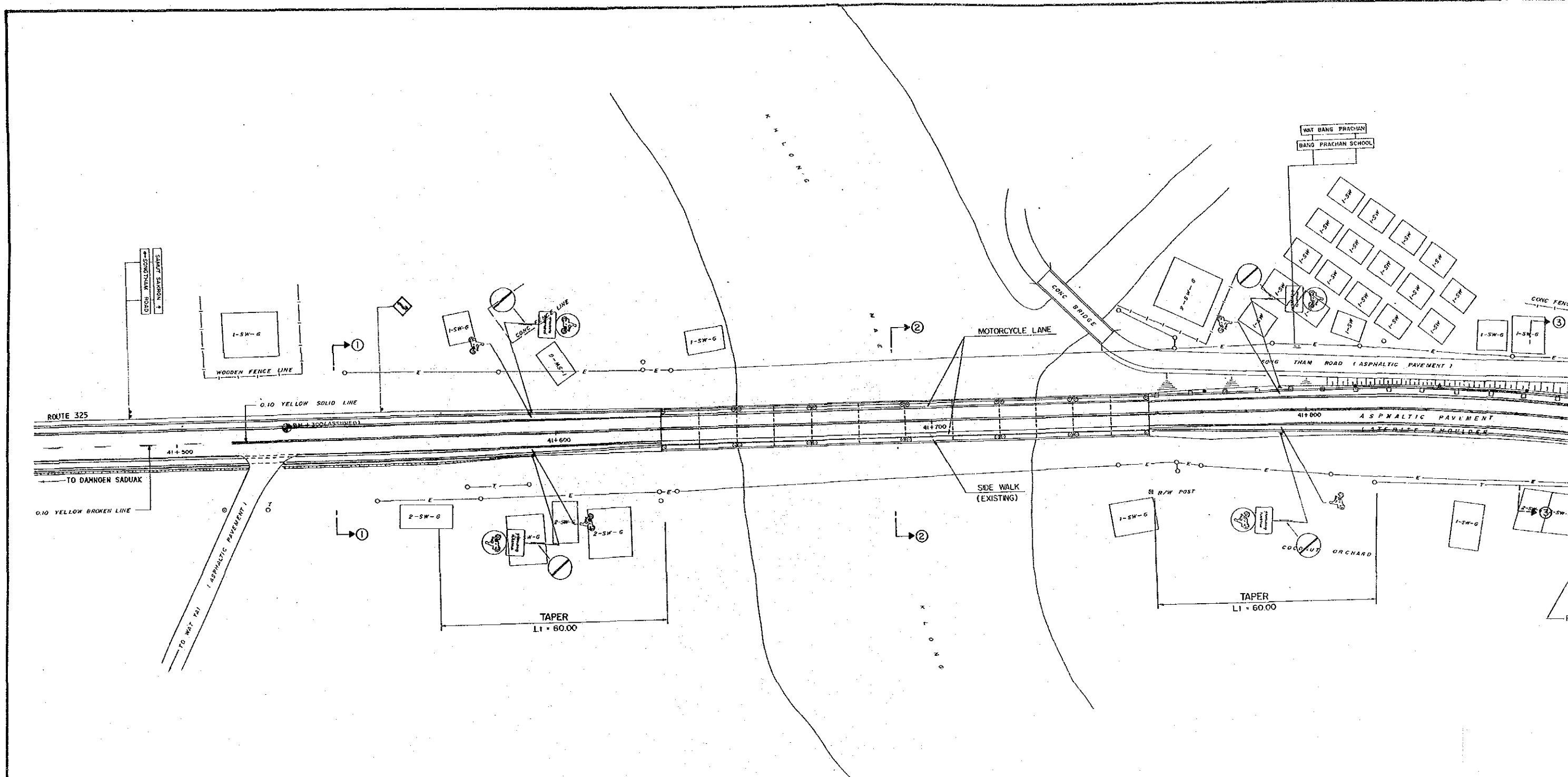
- LEGEND:
- LINE LINE
 - TELEPHONE LINE W/POLE
 - POWER LINE W/POLE
 - WATER PIPE LINE W/STOPPER
 - SLOPE/GRAN W/HANDRAIL
 - CABLE CONDUIT W/HANDRAIL
 - CAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TREE / BUSH
 - TRAFFIC SIGN
 - TELEPHONE RELAY STA
 - POST BOX
 - TRAFFIC CONTROL SIGNAL BOARD
 - TELEPHONE WORK
 - METEOR SIGN
 - BUS WHEELER
 - POWER POLE W/LAMP
 - PARKING METER
 - STONE, CONCRETE FRAME AND LIGHTS ROAD BOUNDARY
 - STONE, CONCRETE FRAME, POLE POSITION



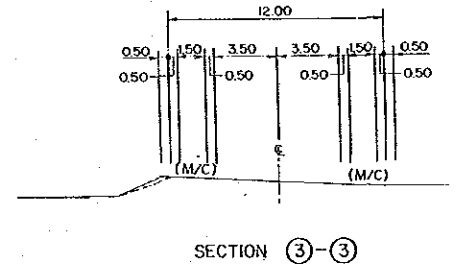
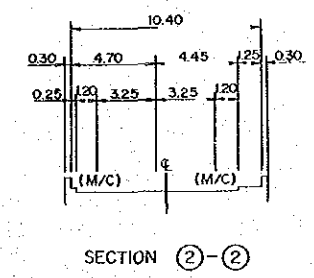
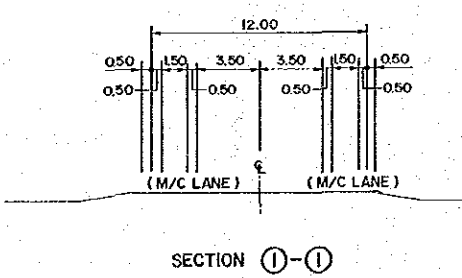


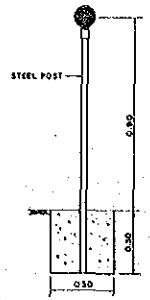
- LEGEND:
- FENCE LINE
 - TELEPHONE LINE
 - POWER LINE
 - WATER SUPPLY LINE
 - STORM DRAIN
 - CABLE CONDUIT
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TREE SYMBOL
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POST BOX
 - TRAFFIC CONTROL SWITCH BOARD
 - TELEPHONE BOOTH
 - UTILITY POLE
 - BUS SHELTER
 - POWER POLE WITH LAMP
 - PAVING NETTING
 - CONCRETE FRAME FOR UTILITY BOX CONDITION
 - CONCRETE FRAME FOR UTILITY BOX CONDITION





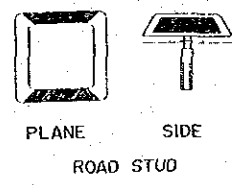
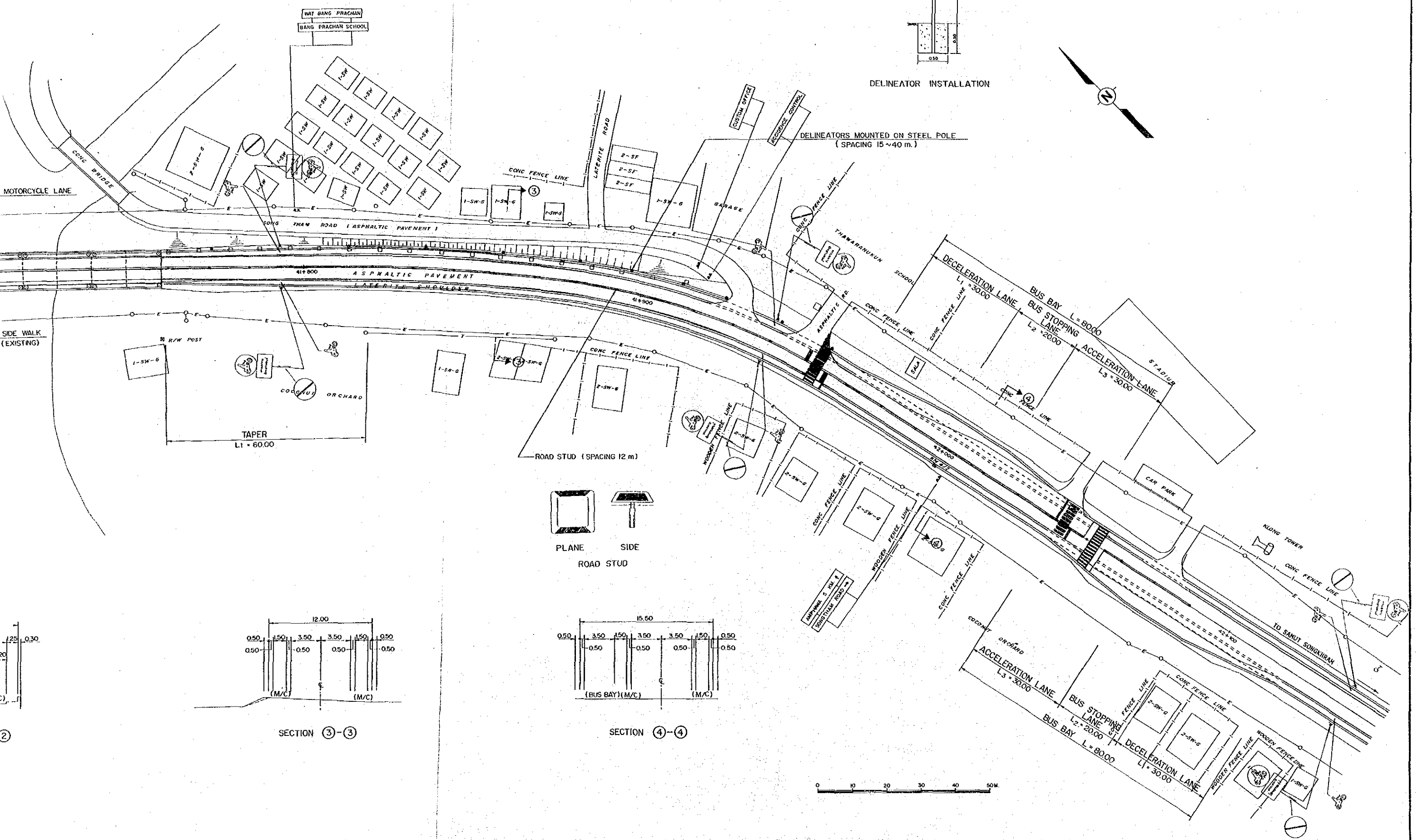
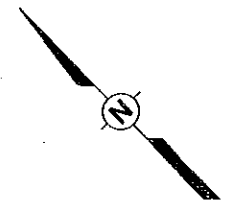
- LEGEND:
- TELEPHONE LINE W/ POLE
 - POWER LINE W/ POLE
 - WATER PIPE LINE W/ STOPVAL
 - SLOUGH/RAIN W/ MANHOLE
 - CABLE CONDUIT W/ MANHOLE
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TRUCK / BUSES
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POLE BOX
 - TRAFFIC CONTROL BOARD
 - TELEPHONE BOX
 - WATER BIN
 - BUS WHEELER
 - POWER POLE W/ LAMP
 - WATER METER
 - 3.10 METER, CONCRETE FRAME (G. W/ 1000 DIMENSION)
 - 3.10 METER, WOOD FRAME, POOR CONDITION



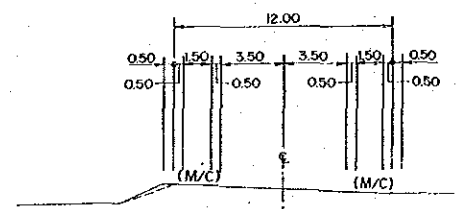


DELINEATOR INSTALLATION

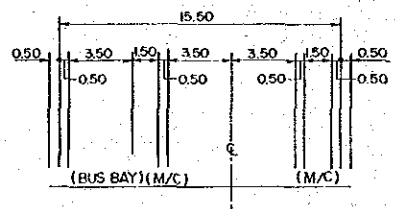
DELINEATORS MOUNTED ON STEEL POLE
 (SPACING 15~40 m.)



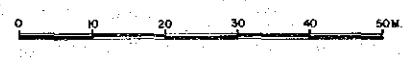
ROAD STUD



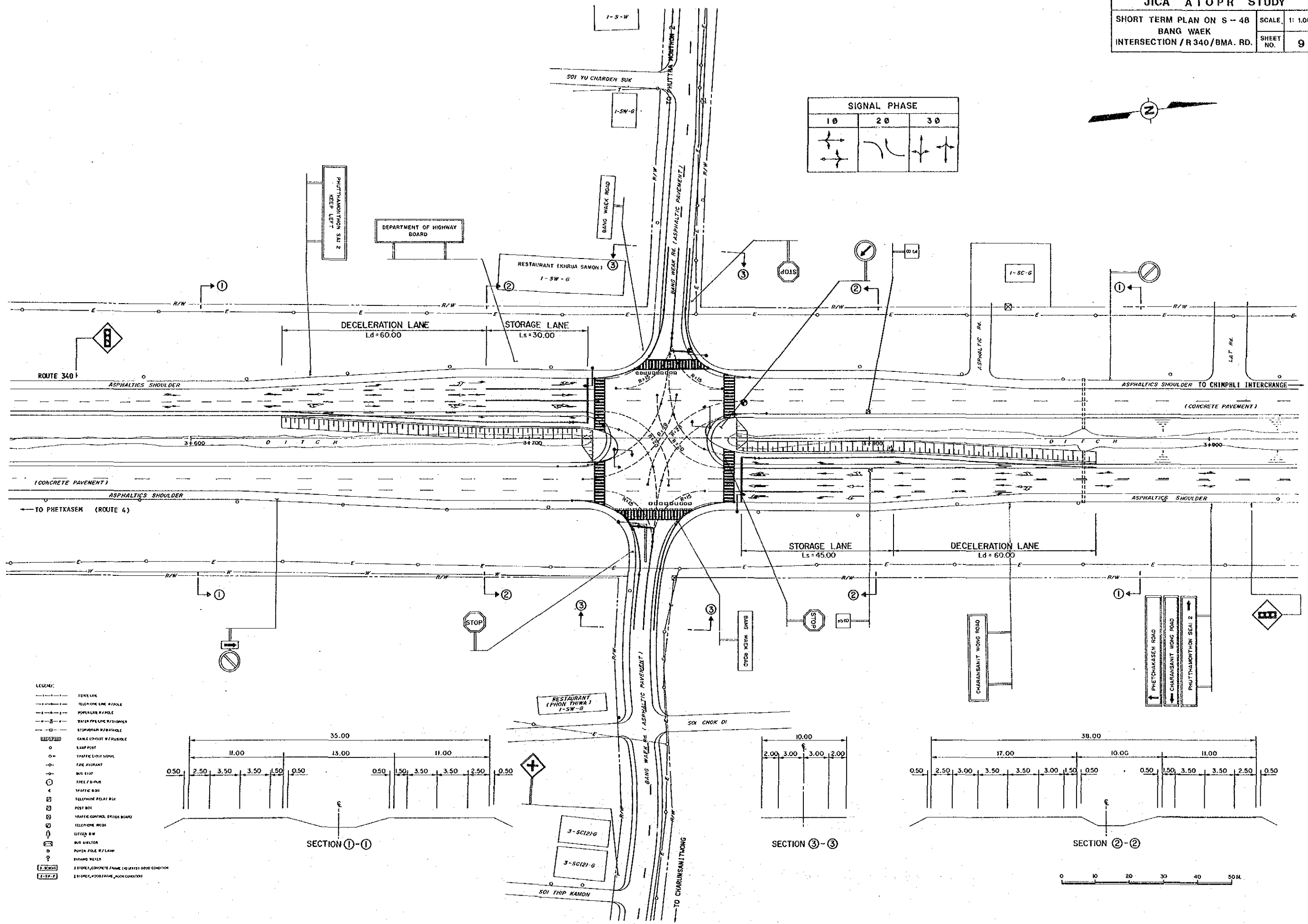
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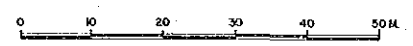
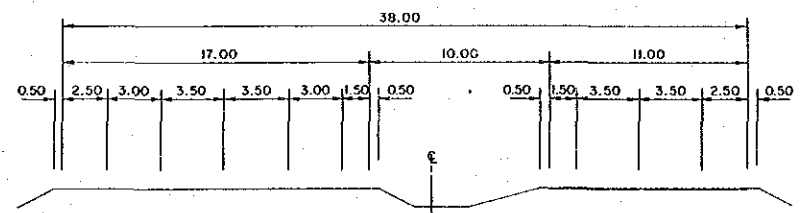
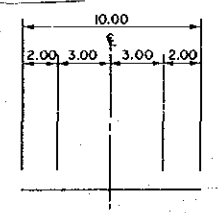
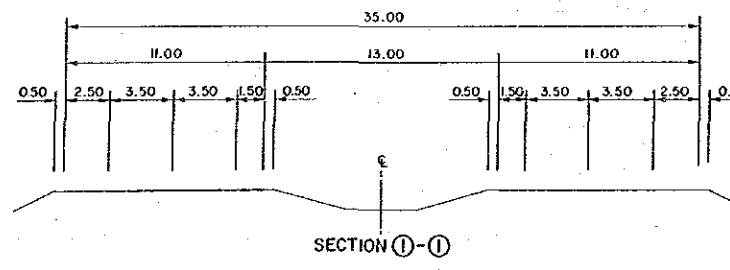
SECTION 4-4



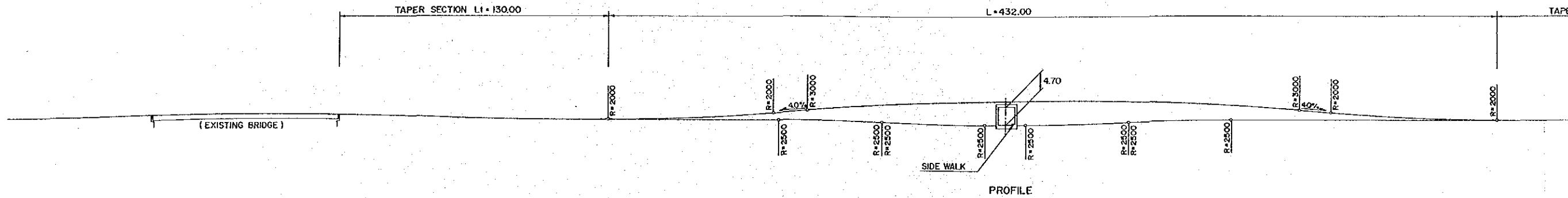
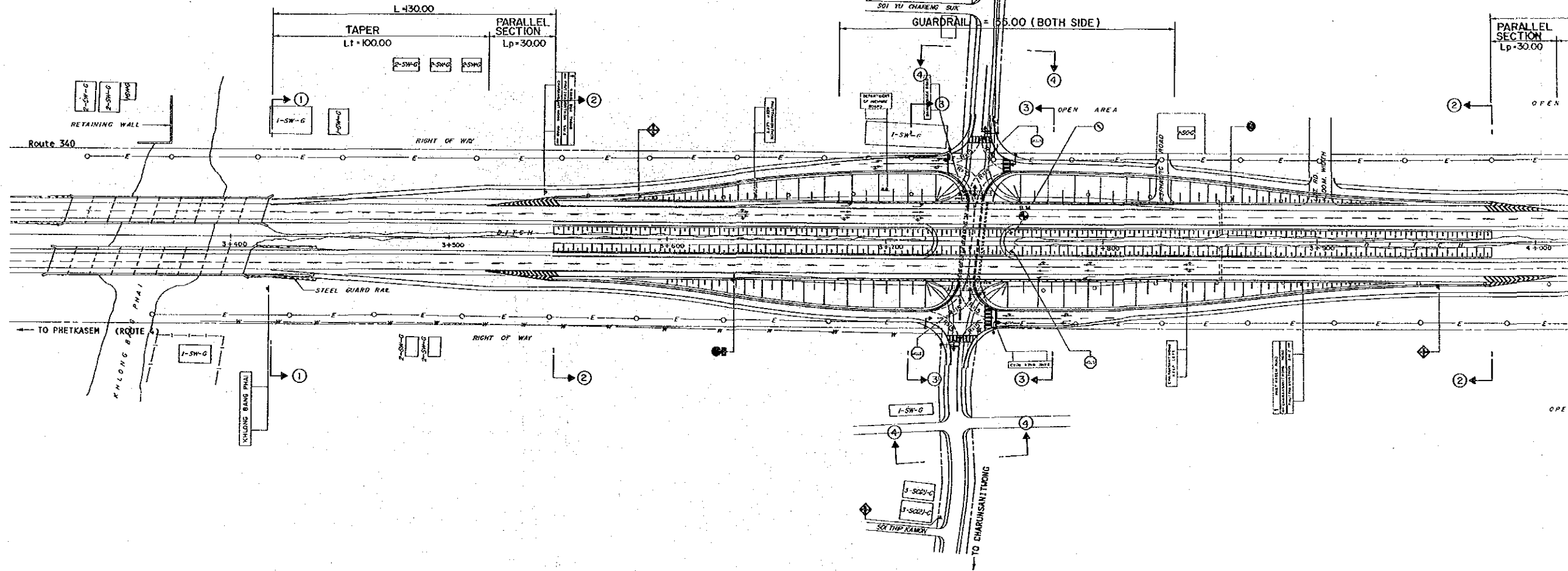
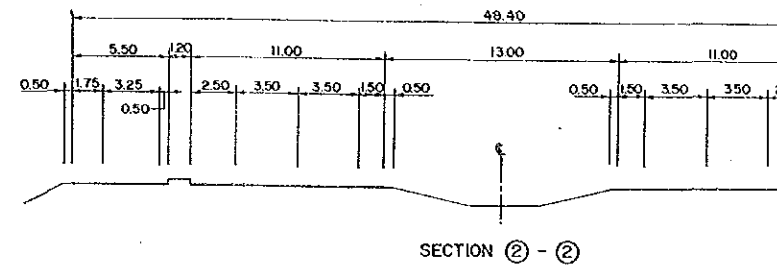
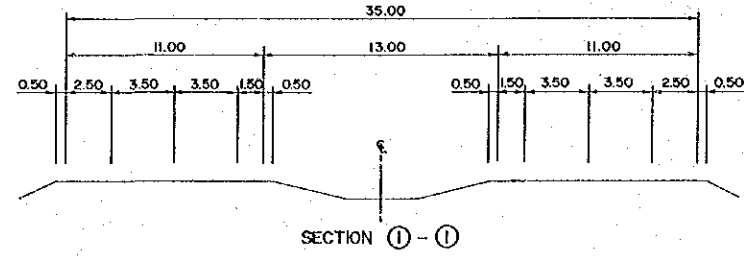
SIGNAL PHASE		
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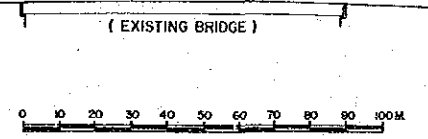
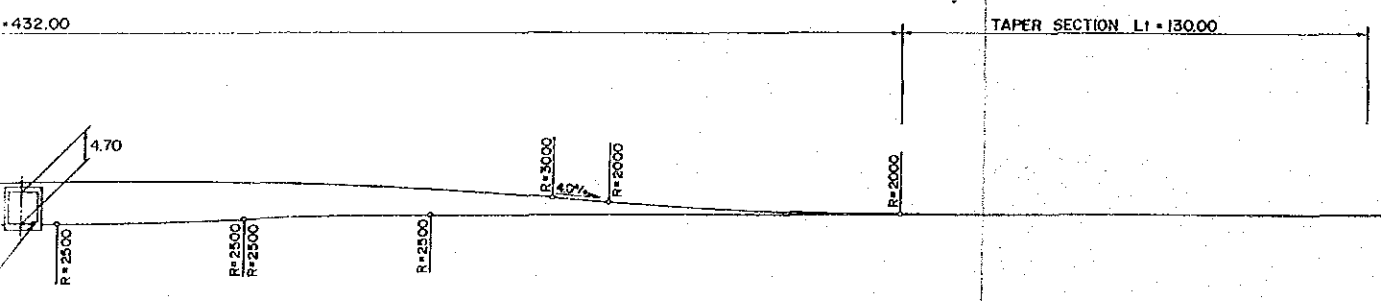
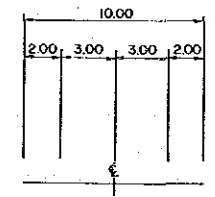
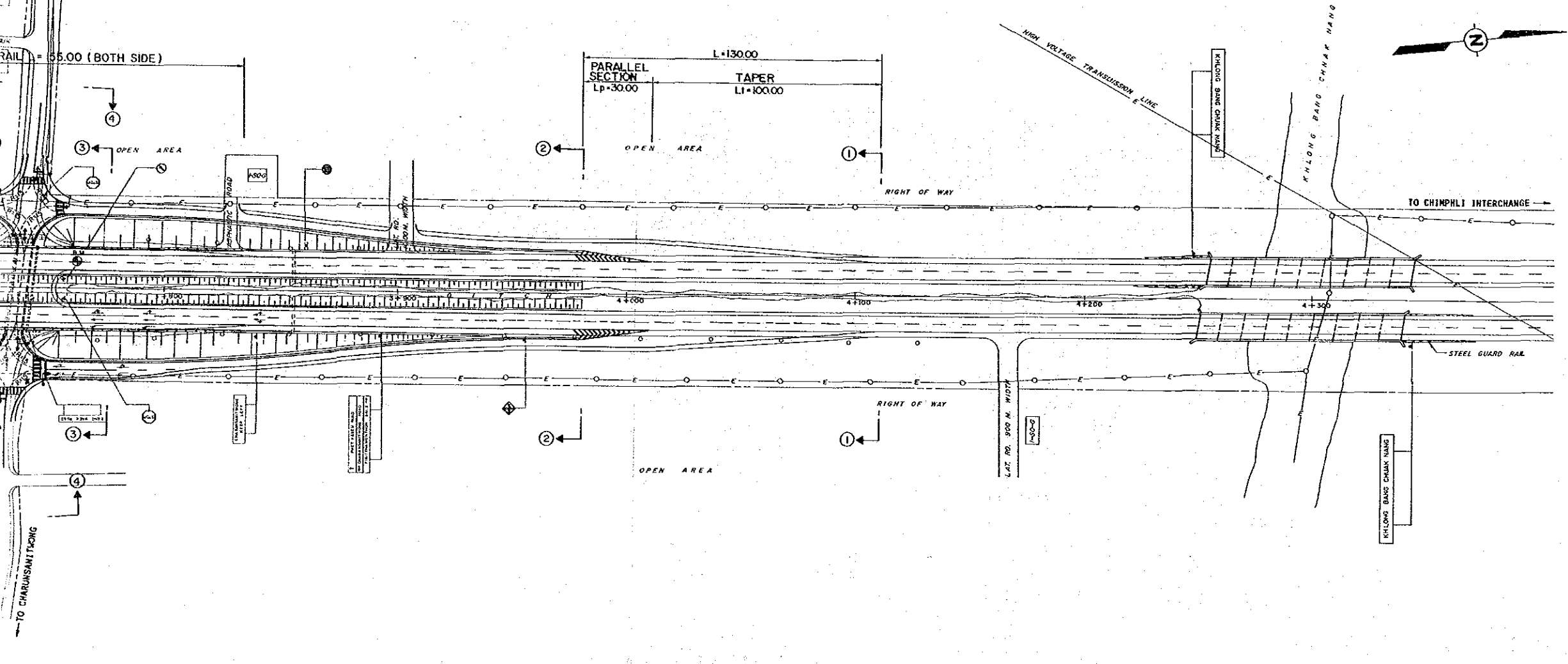
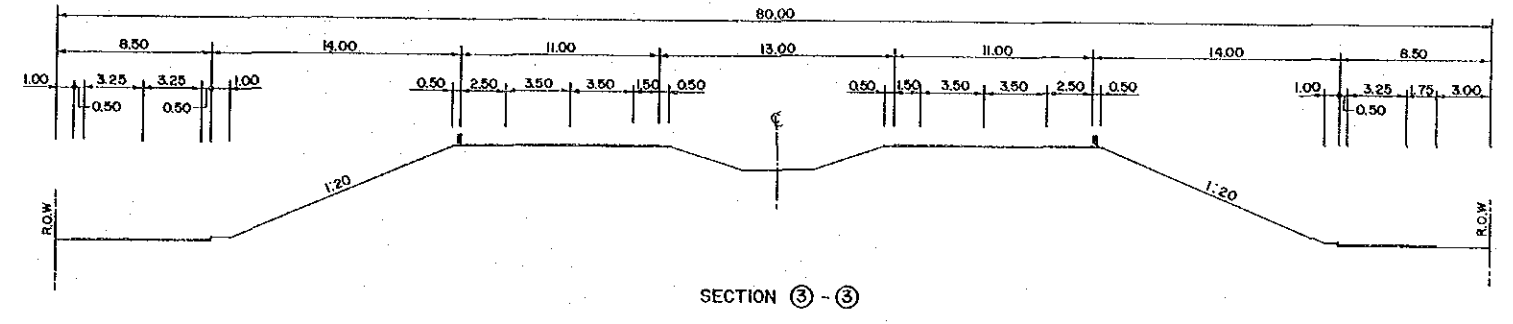
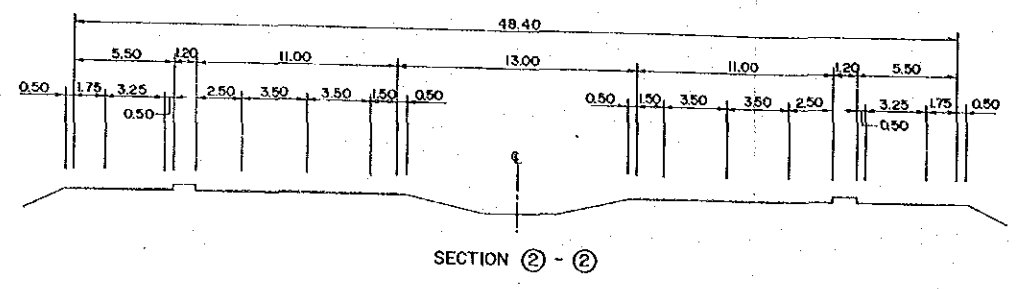


- LEGEND:
- FENCE LINE
 - TELEPHONE LINE # POLE
 - POWER LINE # POLE
 - WATER PIPING # PIPE
 - STOP SIGN # SIGNPOST
 - CANAL # COAST # W/VAULT
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE HYDRANT
 - BUS STOP
 - TREE # SIGN
 - TRAFFIC SIGN
 - TELEPHONE RELAY BOX
 - POST BOX
 - TRAFFIC CONTROL SIGNAL BOARD
 - TELEPHONE BOOTH
 - LITTER BIN
 - BUS SHELTER
 - POWER POLE # LAMP
 - DRAINAGE WATER
 - 1-3 ROAD
 - 1-3 SHOULDER, CONCRETE PAVEMENT (TO BE SET) GOOD CONDITION
 - 1-3 SHOULDER, ASPHALTIC PAVEMENT, POOR CONDITION

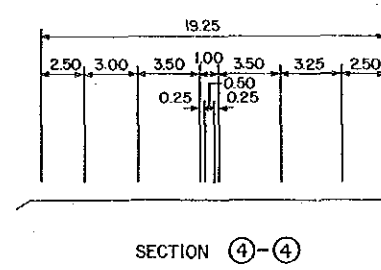
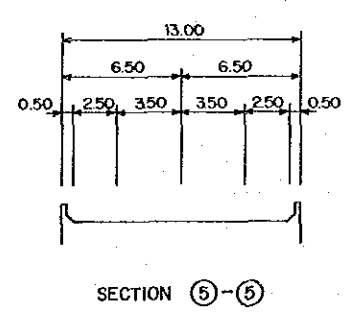
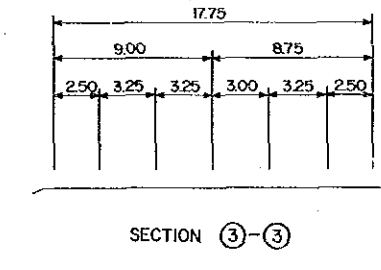
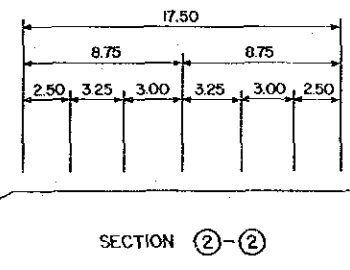
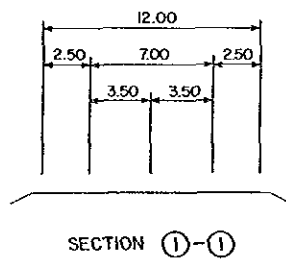
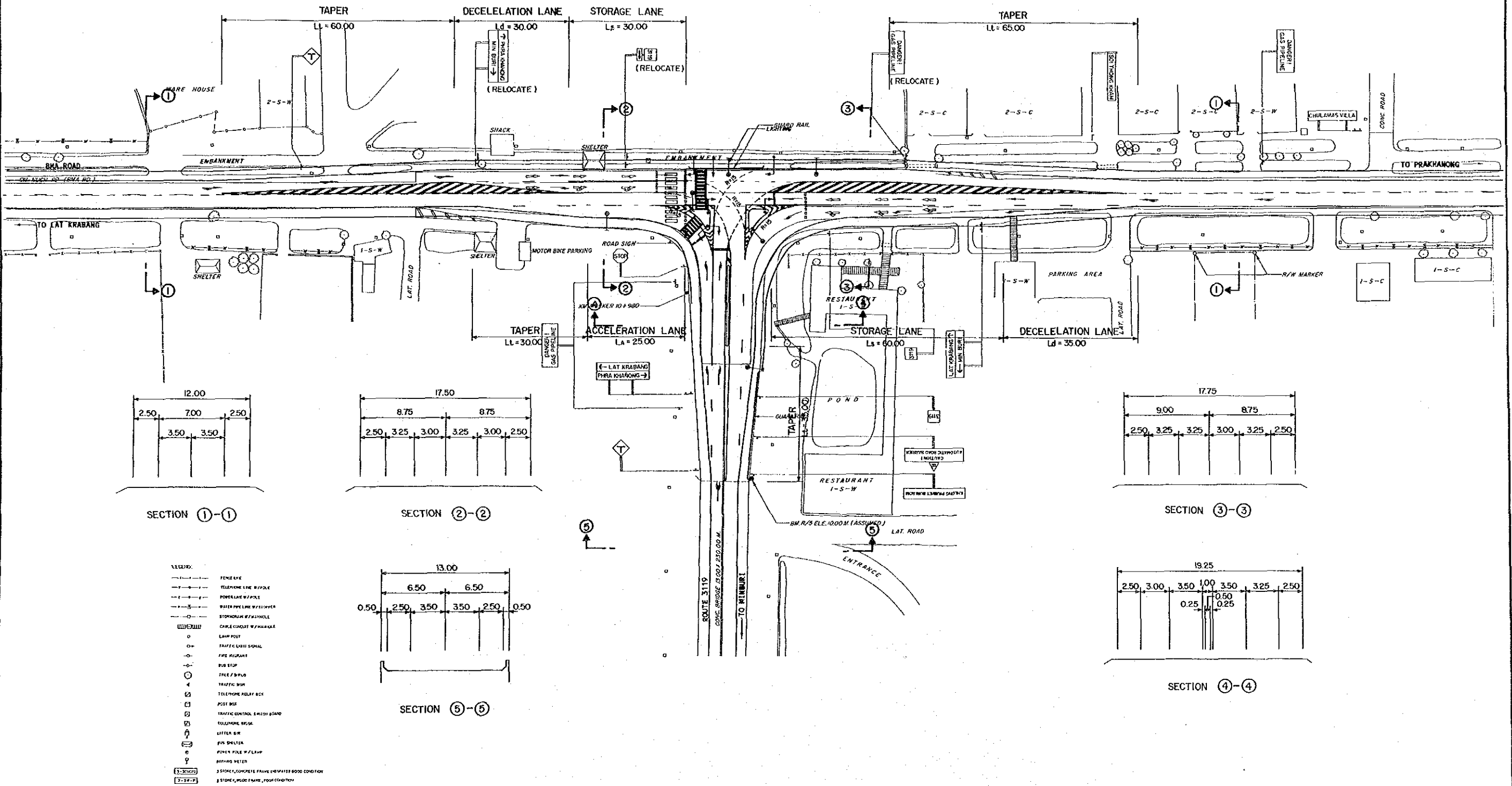
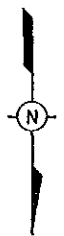


- LEGEND
- — — — — FENCE LINE
 - — — — — TELEPHONE LINE W/ POLE
 - — — — — POWERLINE W/ POLE
 - — — — — WATER MAINLINE W/ STOPPER
 - — — — — TELEPHONE W/ MAINLINE
 - — — — — CABLE CORDON W/ FAHSA POLE
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - EYE W/ SIGNAL
 - BUS STOP
 - FACE / SIGN
 - TRAFFIC SIGN
 - TELEPHONE SIGNAL BOX
 - POST BOX
 - TRAFFIC CONTROL SWITCH BOARD
 - TELEPHONE BOOTH
 - LETTER SIGN
 - BUS SHELTER
 - POWER POLE W/ LAMP
 - PAVING BEZEL
 - 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 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
 - 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 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





SIGNAL PHASE	
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- LEGEND:**
- FENCE LINE
 - TELEPHONE LINE W/POLE
 - POWERLINE W/POLE
 - WATER PIPELINE W/VALVE
 - STOPPAGE W/WHOLE
 - CABLE CONDUIT W/MARKER
 - LAMP POST
 - TRAFFIC LIGHT SIGNAL
 - FIRE ALARM
 - BUS STOP
 - TRUCK STOP
 - TRAFFIC SIGN
 - TELEPHONE POLE BOX
 - POST BOX
 - TRAFFIC CONTROL BOARD
 - TELEPHONE BOSS
 - LITTER BIN
 - FIRE EXTINGUISHER
 - POWER POLE W/LAMP
 - BICYCLE METER
 - ① STONE, CONCRETE FRAME OR METAL ROAD CONDITION
 - ② STONE, BRICK PAVED, ROAD CONDITION

