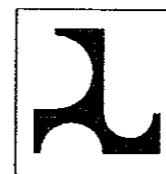




JAPAN INTERNATIONAL  
COOPERATION AGENCY



DIRECTORATE GENERAL OF HIGHWAY  
MINISTRY OF PUBLIC WORKS  
REPUBLIC OF INDONESIA

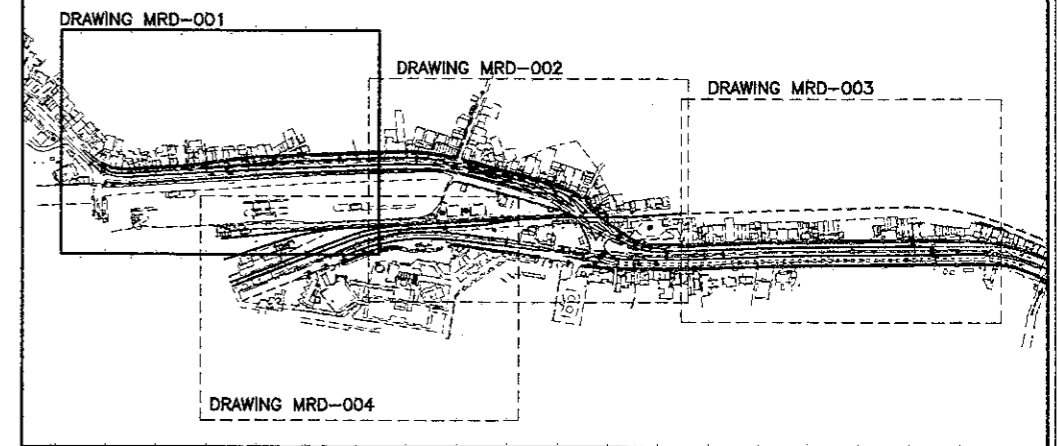
# ROADS

 **KEI** KATAHIRA & ENGINEERS INTERNATIONAL

DATA	PI NO. - 1	UNITS
PI STA.	STA. 0 + 532.808	
N	9344599.017	m
E	610285.097	m
V	30	km/h
Δ	49-19-39.50	"
Θs	-	"
R	30	m
A	-	m
Ts	-	m
Es	4.802	m
Tc	22.433	m
La	-	m
Lc	42.174	m
L	42.174	m
e	EXISTING	%

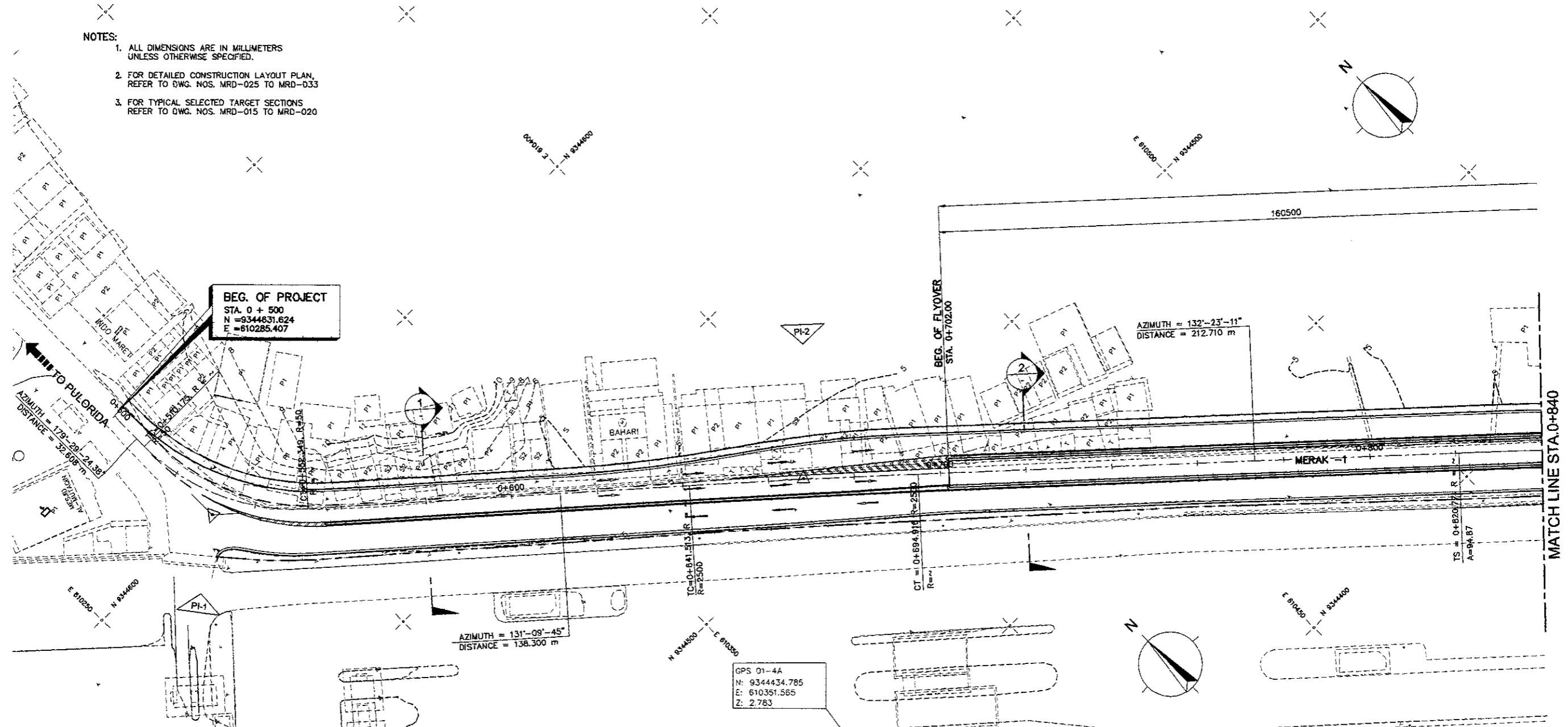
DATA	PI NO. - 2	UNITS
PI STA.	STA. 0 + 668.206	
N	9344507.989	m
E	610389.816	m
V	40	km/h
Δ	1-13-26.05	"
Θs	-	"
R	2500	m
A	-	m
Ts	-	m
Es	0.143	m
Tc	26.702	m
La	-	m
Lc	53.403	m
L	53.403	m
e	EXISTING	%

DATA	PI NO. - 3	UNITS
PI STA.	STA. 0 + 880.924	
N	9344364.585	m
E	610546.927	m
V	40	km/h
Δ	17-06-43.42	"
Θs	2-51-53.24	"
R	300	m
A	94.868	m
Ts	60.153	m
Es	3.503	m
Tc	-	m
La	30	m
Lc	59.599	m
L	119.599	m
e	4.6	%

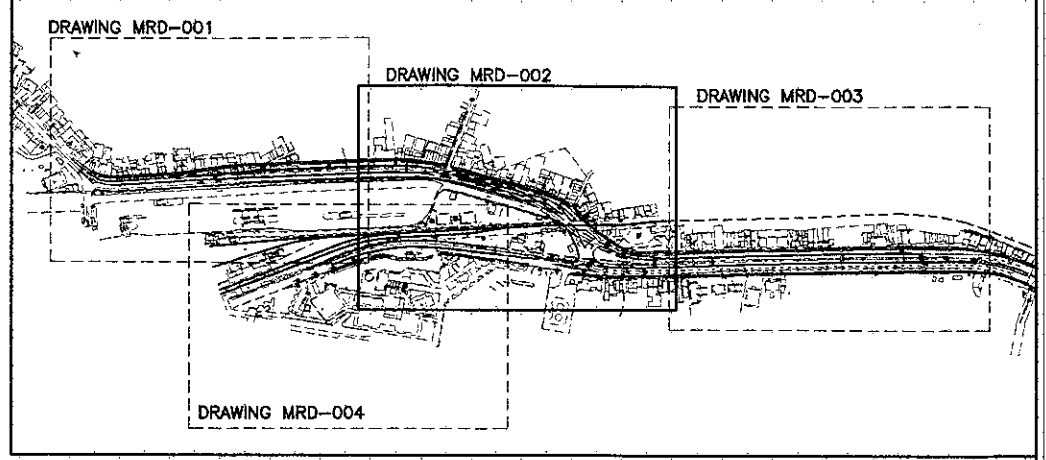
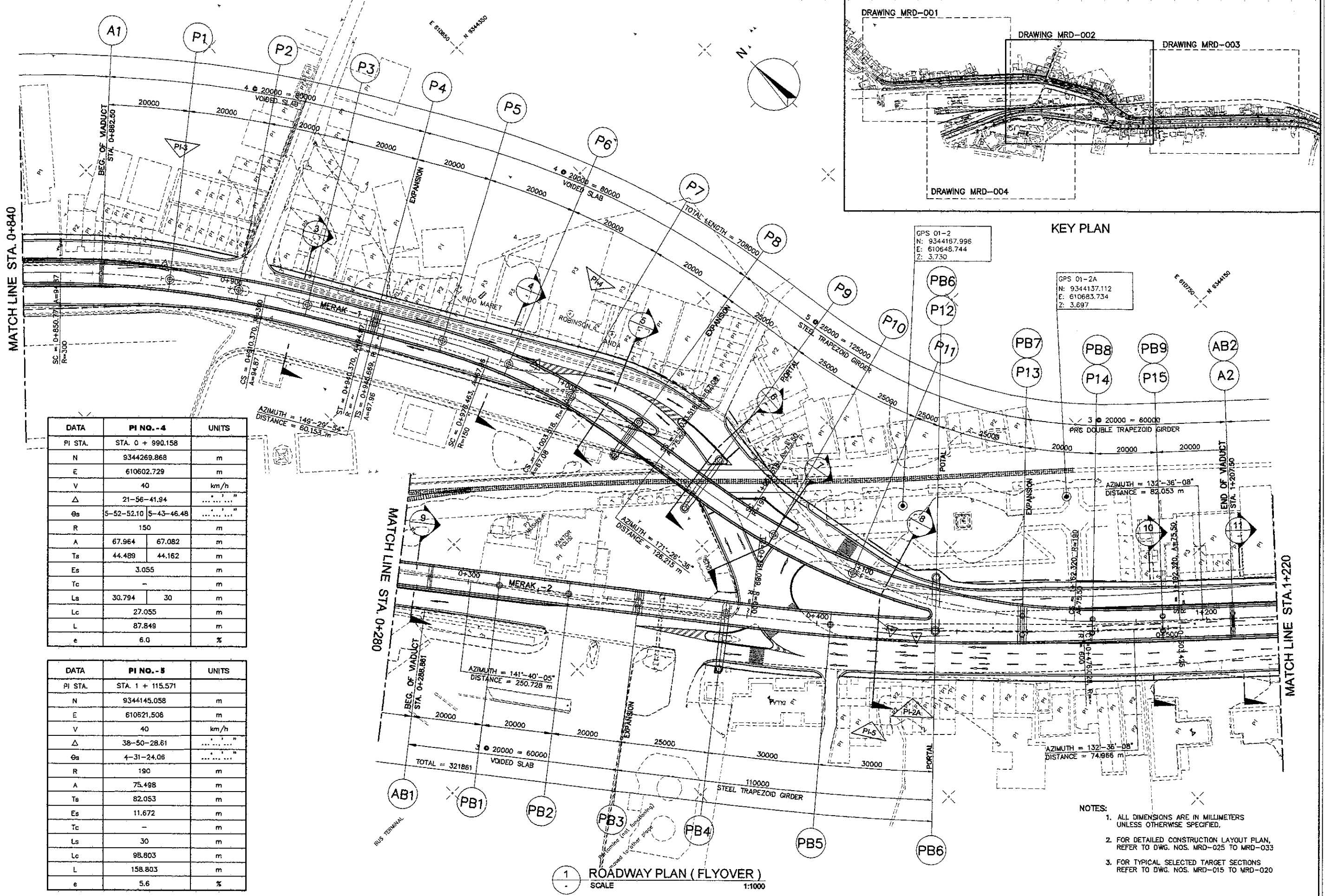


KEY PLAN

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020



1 ROADWAY PLAN (FLYOVER)  
 SCALE 1:1000



DATA	PI NO. - 4	UNITS
PI STA.	STA. 0 + 990.158	
N	9344269.868	m
E	610602.729	m
V	40	km/h
Δ	21-56-41.84	"
Θs	5-52-52.10   5-43-46.48	"
R	150	m
A	67.964   67.082	m
Ts	44.489   44.162	m
Es	3.055	m
Tc	-	m
Ls	30.794   30	m
Lc	27.055	m
L	87.849	m
e	6.0	%

DATA	PI NO. - 5	UNITS
PI STA.	STA. 1 + 115.571	
N	9344145.058	m
E	610621.506	m
V	40	km/h
Δ	38-50-28.61	"
Θs	4-31-24.06	"
R	190	m
A	75.498	m
Ts	82.053	m
Es	11.672	m
Tc	-	m
Ls	30	m
Lc	98.803	m
L	158.803	m
e	5.6	%

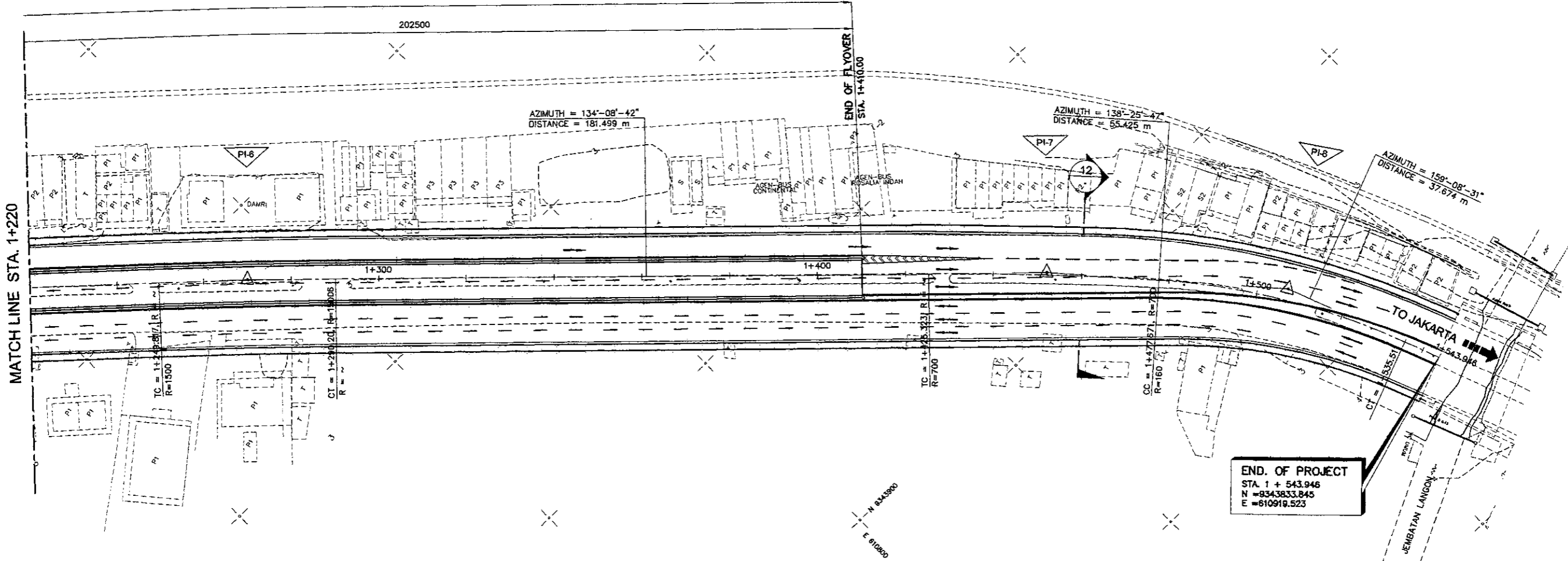
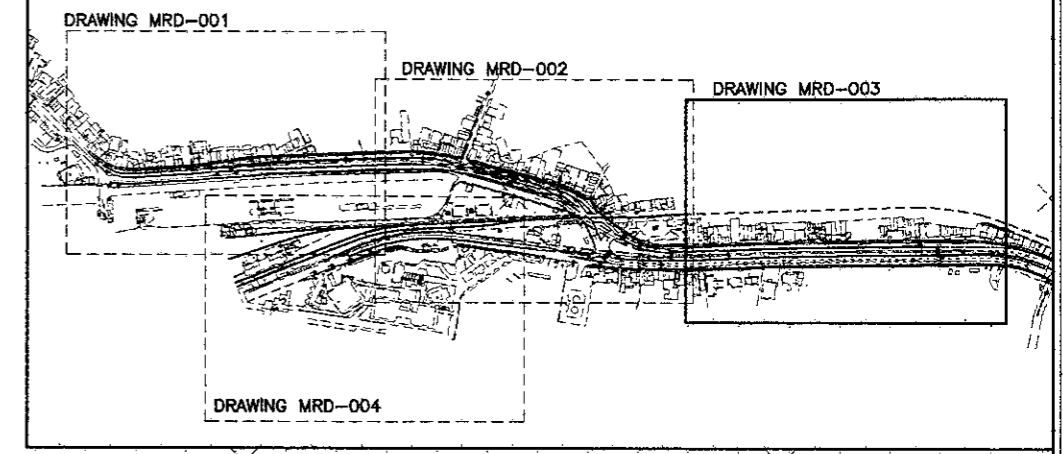
1 ROADWAY PLAN (FLYOVER)  
 SCALE 1:1000

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  - FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  - FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020

DATA	PI NO. - 6	UNITS
PI STA.	STA. 1 + 270.013	
N	9344036.926	m
E	610739.092	m
V	40	km/h
Δ	1-32-33.98	"
Θs	-	"
R	1500	m
A	-	m
Ts	-	m
Es	0.136	m
Tc	20.196	m
Ls	-	m
Lc	40.390	m
L	40.390	m
e	NORMAL = 2	%

DATA	PI NO. - 7	UNITS
PI STA.	STA. 1 + 451.509	
N	9343810.517	m
E	610869.332	m
V	40	km/h
Δ	4-17-05.10	"
Θs	-	"
R	700	m
A	-	m
Ts	-	m
Es	0.490	m
Tc	26.186	m
Ls	-	m
Lc	52.348	m
L	52.348	m
e	EXISTING	%

DATA	PI NO. - 8	UNITS
PI STA.	STA. 1 + 506.910	
N	9343869.051	m
E	610906.109	m
V	40	km/h
Δ	20-42-44.68	"
Θs	-	"
R	160	m
A	-	m
Ts	-	m
Es	2.650	m
Tc	28.239	m
Ls	-	m
Lc	57.840	m
L	57.840	m
e	EXISTING	%



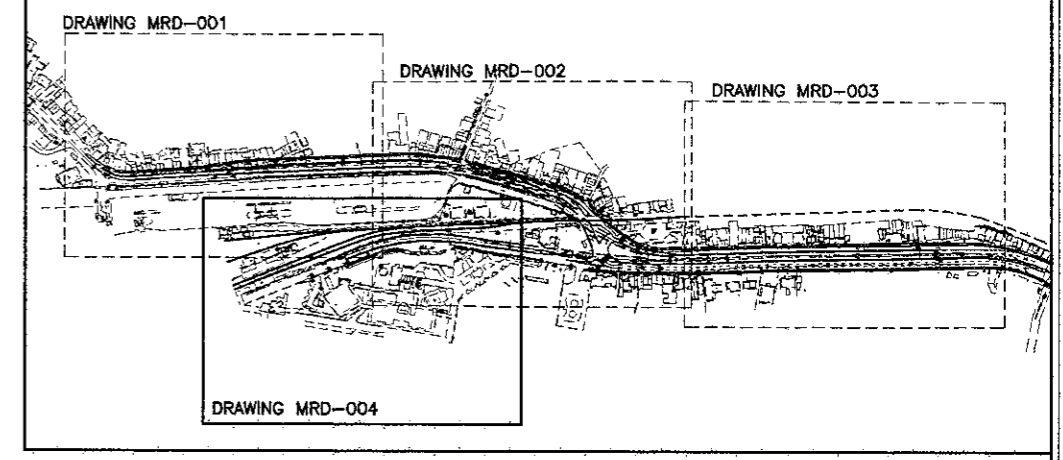
**END. OF PROJECT**  
 STA. 1 + 543.946  
 N = 9343833.845  
 E = 610919.523

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020

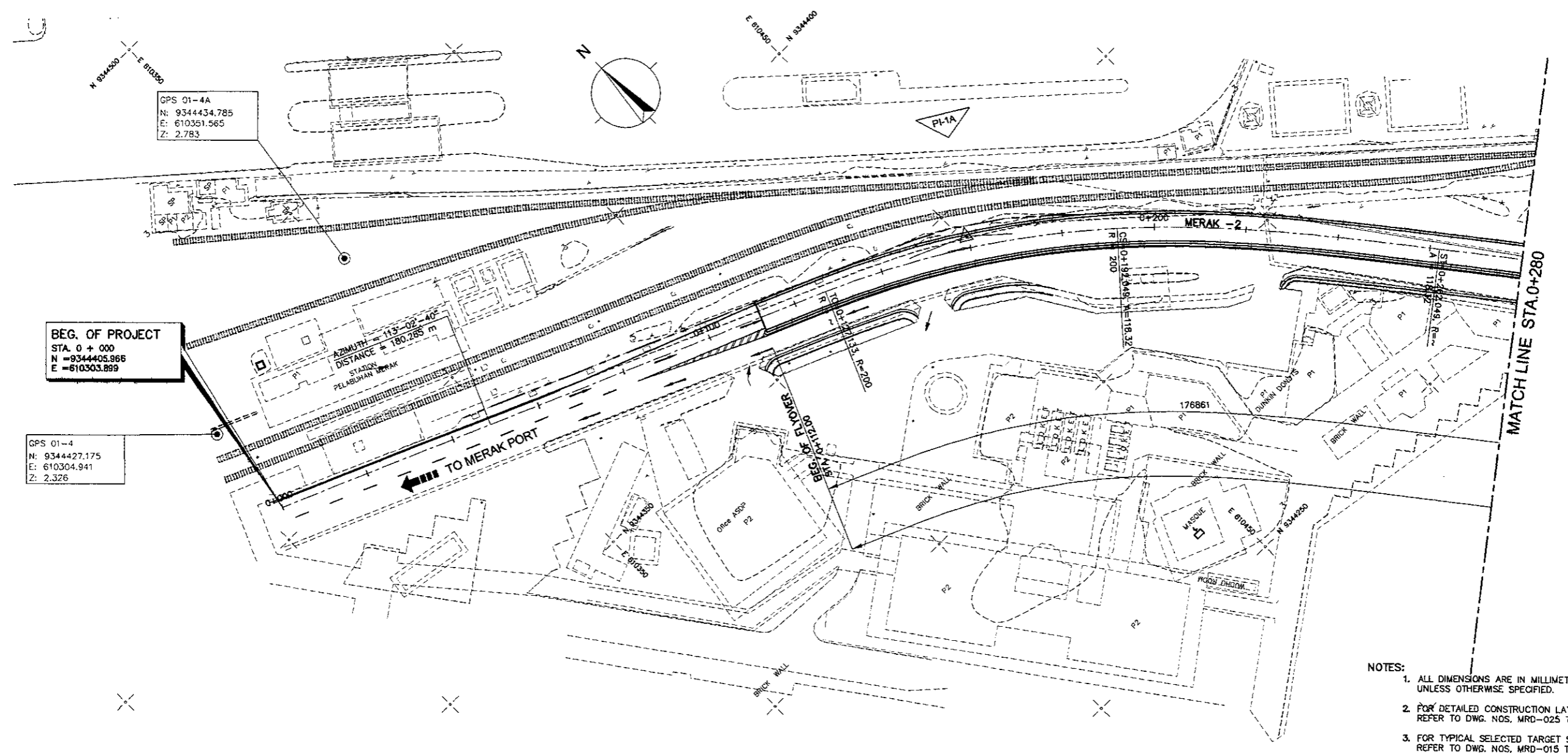
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

DATA	PI NO. - 1A	UNITS
PI STA.	STA. 0 + 180.285	
N	9344335.394	m
E	610469.798	m
V	40	km/h
Δ	28-37-25.52	"
Θs	-	"
R	200	m
A	118.322	m
Ts	84.119	m
Es	6.942	m
Tc	-	m
La	70	m
Lc	64.916	m
L	134.916	m
e	5.5	%

DATA	PI NO. - 2A	UNITS
PI STA.	STA. 0 + 428.657	
N	9344138.715	m
E	610625.303	m
V	40	km/h
Δ	9-03-57.64	"
Θs	-	"
R	600	m
A	-	m
Ts	-	m
Es	1.883	m
Tc	47.569	m
La	-	m
Lc	94.939	m
L	94.939	m
e	3.1	%



**KEY PLAN**



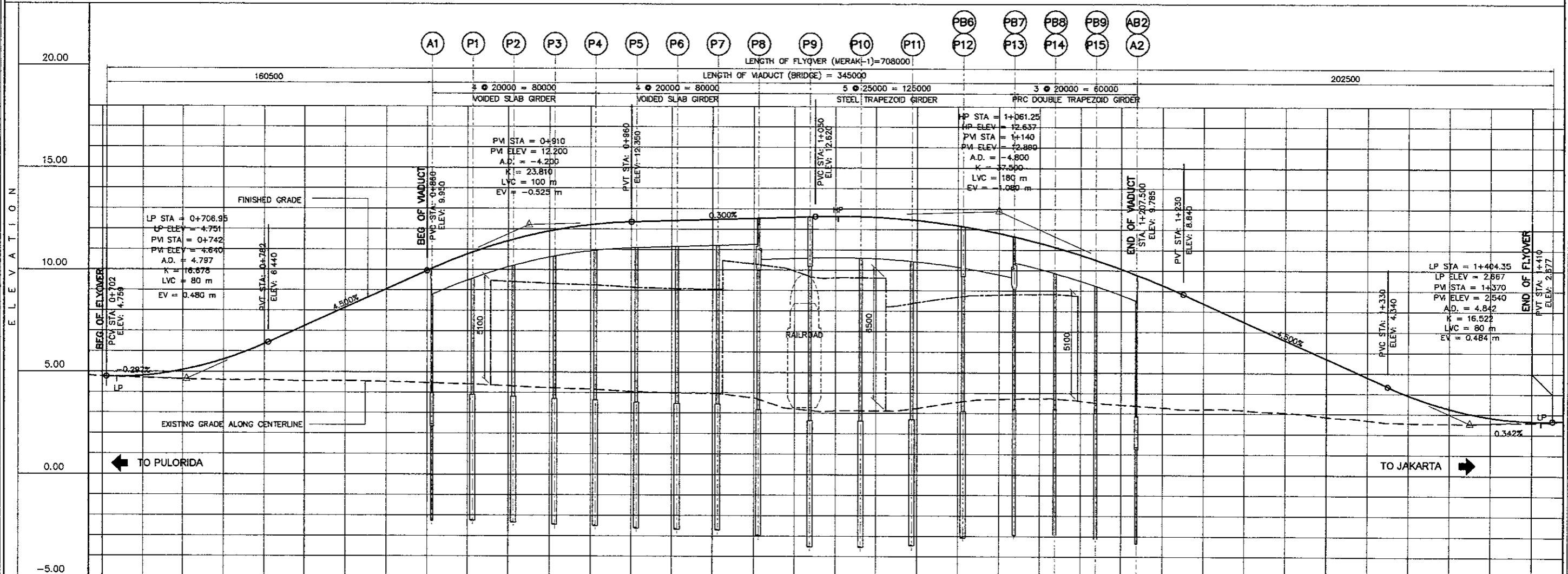
GPS 01-4A  
 N: 9344434.785  
 E: 610351.565  
 Z: 2.783

**BEG. OF PROJECT**  
 STA. 0 + 000  
 N = 9344405.966  
 E = 610303.899

GPS 01-4  
 N: 9344427.175  
 E: 610304.941  
 Z: 2.326

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS, REFER TO DWG. NOS. MRD-015 TO MRD-020

ELEVATION	PIER AND ABUTMENT	A1	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	A2																	
	FINISHED GRADE	4.459	10.061	4.398	10.856	4.309	11.483	4.211	11.942	4.145	12.233	4.033	12.358	3.977	12.418	3.946	12.478	3.879	12.538	3.133	12.613	3.122	12.620	3.207	12.462	3.587	12.137	3.714	11.645	3.721	11.132	3.528	10.512	3.376	9.765
	EXISTING GRADE																																		

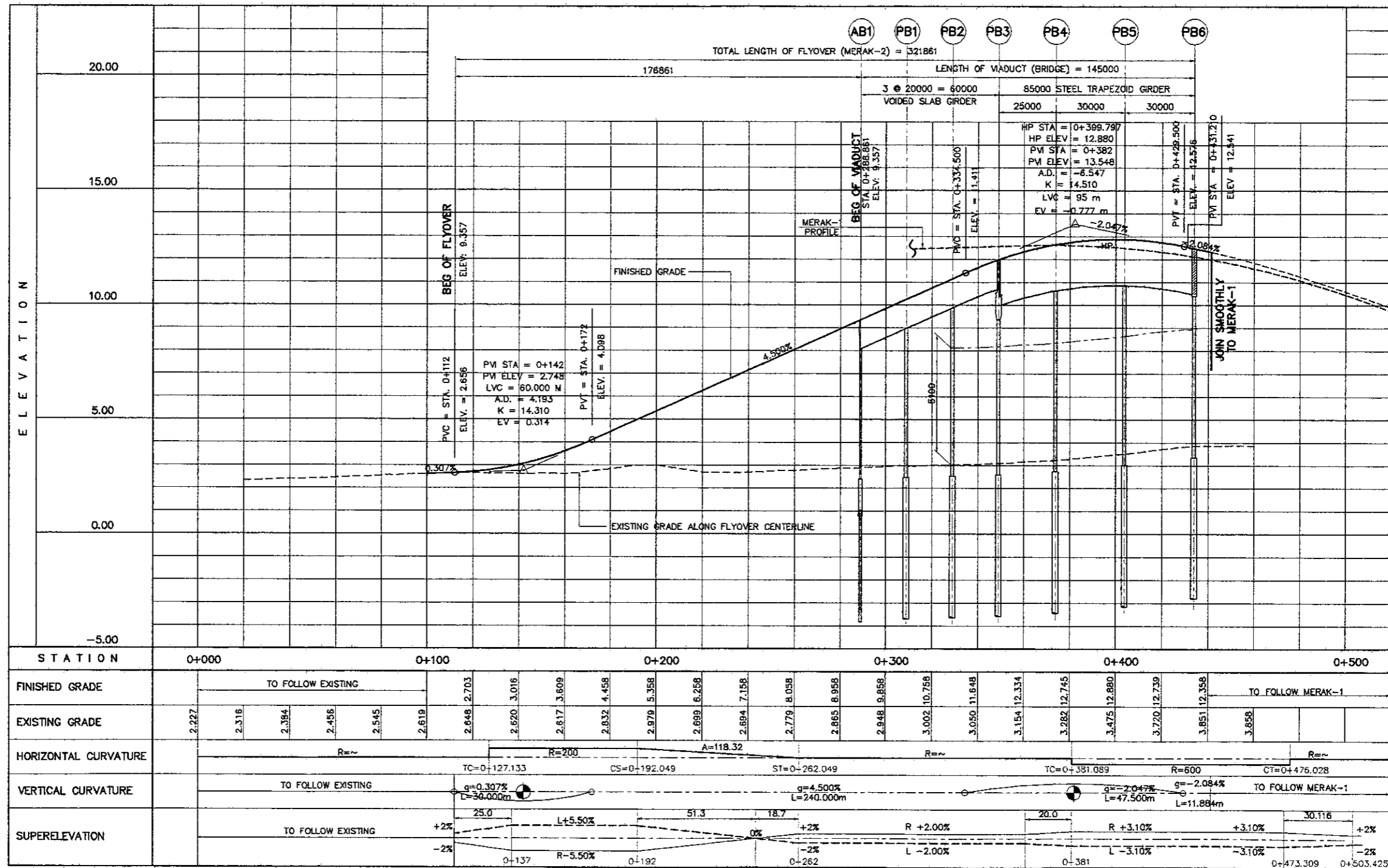


STATION	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400																												
FINISHED GRADE	4.765	4.702	4.629	4.595	4.595	4.542	4.562	4.521	4.468	4.408	4.322	4.220	4.157	4.043	3.981	3.951	3.743	3.207	3.115	3.116	3.247	3.558	3.695	3.728	3.814	3.427	3.291	3.210	3.163	3.055	2.651	2.686	2.559	2.534	2.558	2.600
EXISTING GRADE	4.765	4.702	4.629	4.595	4.595	4.542	4.562	4.521	4.468	4.408	4.322	4.220	4.157	4.043	3.981	3.951	3.743	3.207	3.115	3.116	3.247	3.558	3.695	3.728	3.814	3.427	3.291	3.210	3.163	3.055	2.651	2.686	2.559	2.534	2.558	2.600
HORIZONTAL CURVATURE	R=∞		A=94.87		R=300		A=94.87		A=94.87		R=150		A=75.50		R=190		A=75.50		R=∞		R=1500		R=∞		R=∞		R=∞		R=∞		R=∞		R=∞			
VERTICAL CURVATURE	g=-0.297% L=40.000m		g=4.500% L=168.000m		g=0.300% L=230.000m		g=-4.500% L=230.000m		g=-0.342% L=40.000m																											
SUPER-ELEVATION	R+2% L-2%		+2% -2%		L+4.60%		L+6.00%		+2% -2%		R+5.60%		+2% -2%		R+2%		L-2%		R+2%		L-2%		R+2%		L-2%		R+2%		L-2%		R+2%		L-2%			

1 PROFILE OF FLYOVER ( MERAK-1 )  
 SCALE H=1 : 2000  
 V=1 : 200

NOTE:  
 EXISTING GRADE ELEVATIONS ARE TAKEN FROM  
 CENTERLINE OF FLYOVER.

ELEVATION	PIER AND ABUTMENT	AB1	PB1	PB2	PB3	PB4	PB5	PB6
FINISHED GRADE		9.357	10.257	11.157	11.986	12.648	12.874	12.489
EXISTING GRADE		2.899	2.967	3.025	3.081	3.226	3.512	3.849



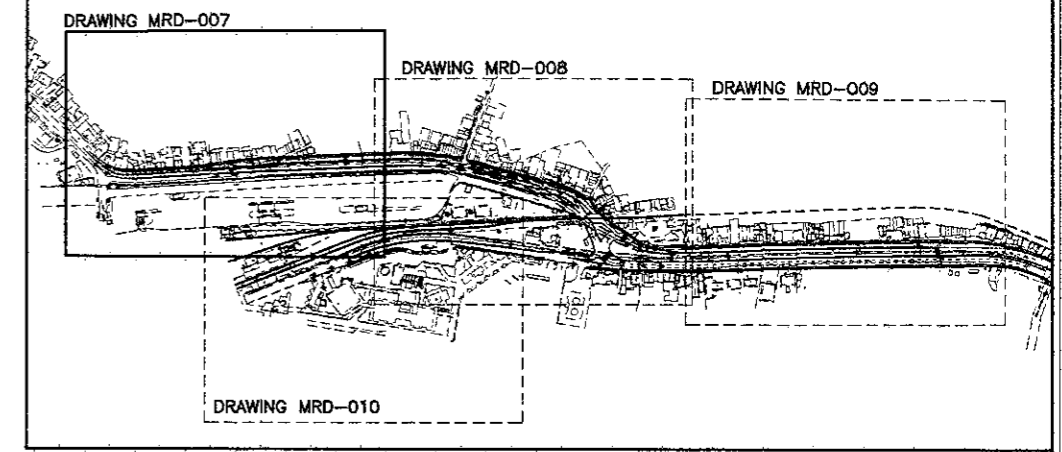
1 PROFILE OF FLYOVER (MERAK-2)  
 SCALE H=1:2000 V=1:200

NOTE:  
 EXISTING GRADE ELEVATIONS ARE TAKEN FROM  
 CENTERLINE OF FLYOVER.

DATA	PI NO. - 1	UNITS
PI STA.	STA. 0 + 532.608	
N	9344599.017	m
E	610285.097	m
V	30	km/h
Δ	49-19-39.50	"
Θs	-	"
R	30	m
A	-	m
Ts	-	m
Es	4.802	m
Tc	22.433	m
La	-	m
Lc	42.174	m
L	42.174	m
e	EXISTING	%

DATA	PI NO. - 2	UNITS
PI STA.	STA. 0 + 668.206	
N	9344507.989	m
E	610368.816	m
V	40	km/h
Δ	1-13-26.05	"
Θs	-	"
R	2500	m
A	-	m
Ts	-	m
Es	0.143	m
Tc	26.702	m
La	-	m
Lc	53.403	m
L	53.403	m
e	EXISTING	%

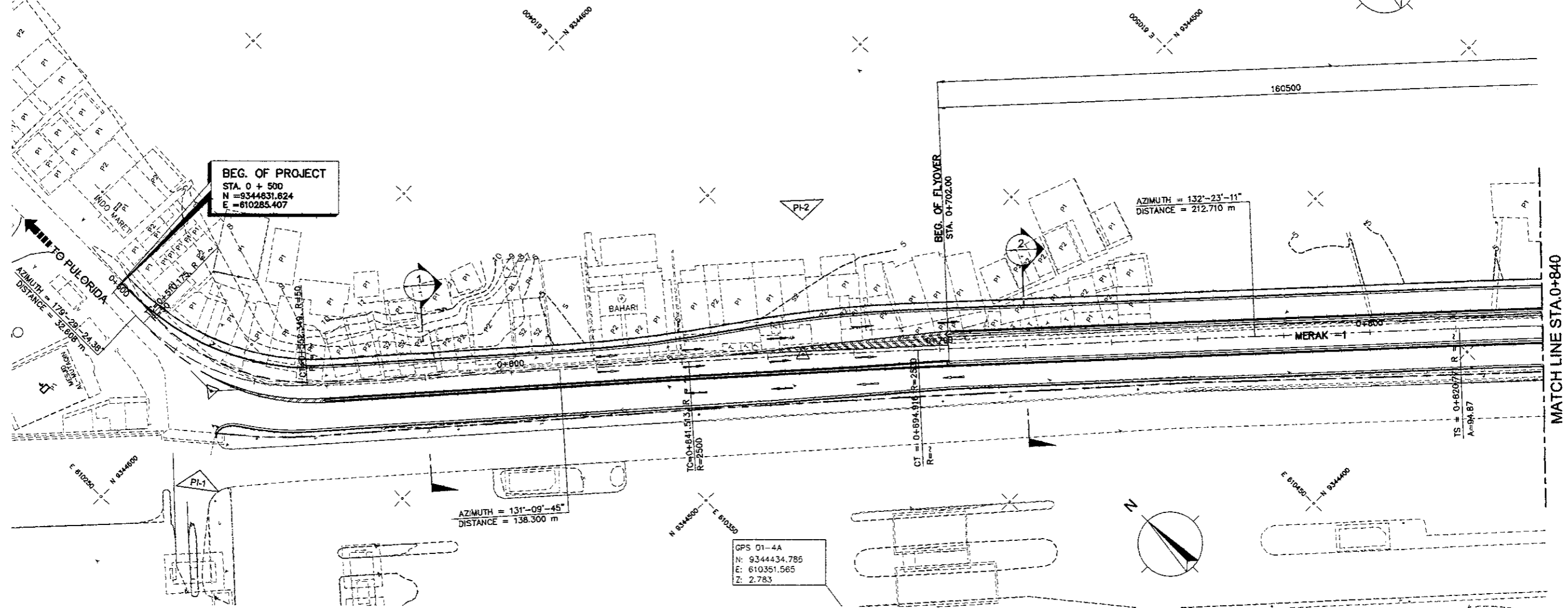
DATA	PI NO. - 3	UNITS
PI STA.	STA. 0 + 880.924	
N	9344364.585	m
E	610546.927	m
V	40	km/h
Δ	17-06-43.42	"
Θs	2-51-53.24	"
R	300	m
A	94.868	m
Ts	60.153	m
Es	3.503	m
Tc	-	m
La	30	m
Lc	59.599	m
L	119.599	m
e	4.6	%



**KEY PLAN**

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020



**BEG. OF PROJECT**  
 STA. 0 + 500  
 N = 9344631.624  
 E = 610285.407

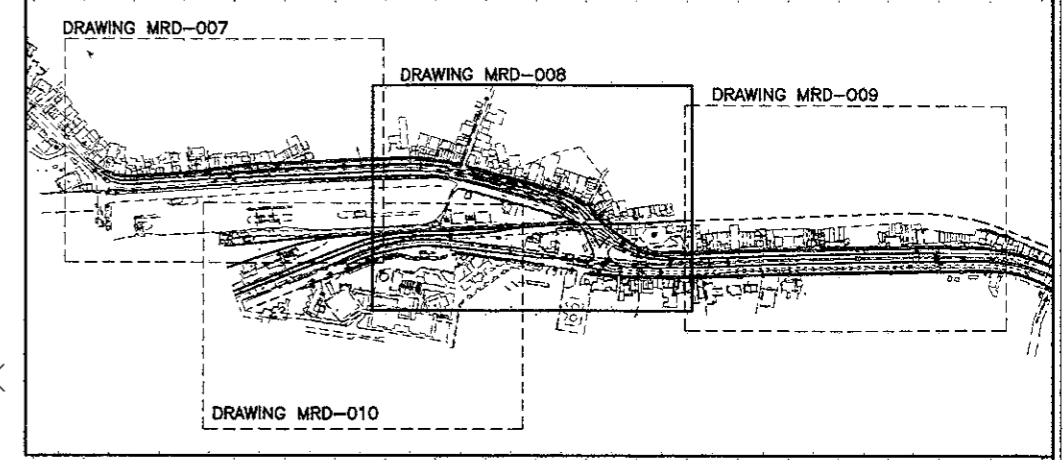
AZIMUTH = 132°-23'-11"  
 DISTANCE = 212.710 m

AZIMUTH = 131°-09'-45"  
 DISTANCE = 138.300 m

GPS 01-4A  
 N: 9344434.785  
 E: 610351.565  
 Z: 2.783

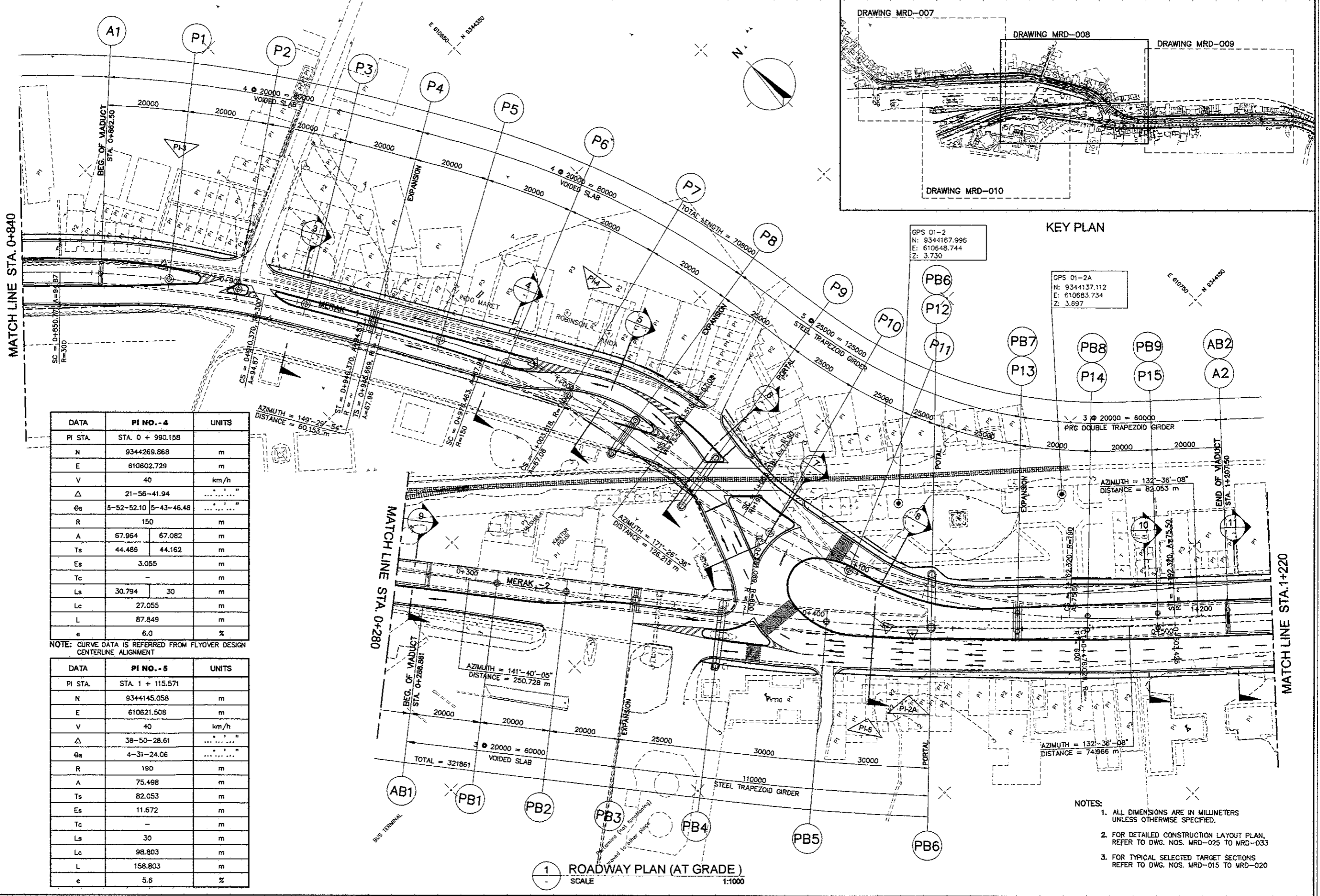
**1 ROADWAY PLAN (AT GRADE)**  
 SCALE 1:1000





GPS 01-2  
 N: 9344167.996  
 E: 610648.744  
 Z: 3.730

GPS 01-2A  
 N: 9344137.112  
 E: 610683.734  
 Z: 3.697



DATA	PI NO. - 4	UNITS
PI STA.	STA. 0 + 990.158	
N	9344269.868	m
E	610602.729	m
V	40	km/h
$\Delta$	21-56-41.94	"
$\theta_a$	5-52-52.10 5-43-46.48	"
R	150	m
A	67.964 67.082	m
Ts	44.489 44.162	m
Es	3.055	m
Tc	-	m
Ls	30.794 30	m
Lc	27.055	m
L	87.849	m
e	6.0	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT

DATA	PI NO. - 5	UNITS
PI STA.	STA. 1 + 115.571	
N	9344145.058	m
E	610621.508	m
V	40	km/h
$\Delta$	38-50-28.61	"
$\theta_a$	4-31-24.06	"
R	190	m
A	75.498	m
Ts	82.053	m
Es	11.672	m
Tc	-	m
Ls	30	m
Lc	98.803	m
L	158.803	m
e	5.6	%

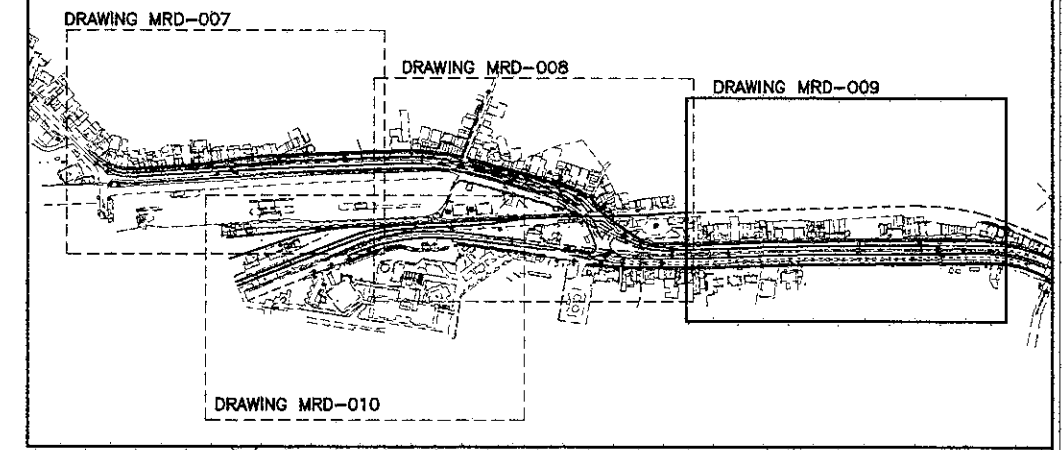
- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  - FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  - FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020

DATA	PI NO. - 6	UNITS
PI STA.	STA. 1 + 270.013	
N	9344036.926	m
E	610739.092	m
V	40	km/h
Δ	1-32-33.98	"
Θs	-	"
R	1500	m
A	-	m
Ts	-	m
Es	0.136	m
Tc	20.196	m
La	-	m
Lc	40.390	m
L	40.390	m
e	NORMAL = 2	%

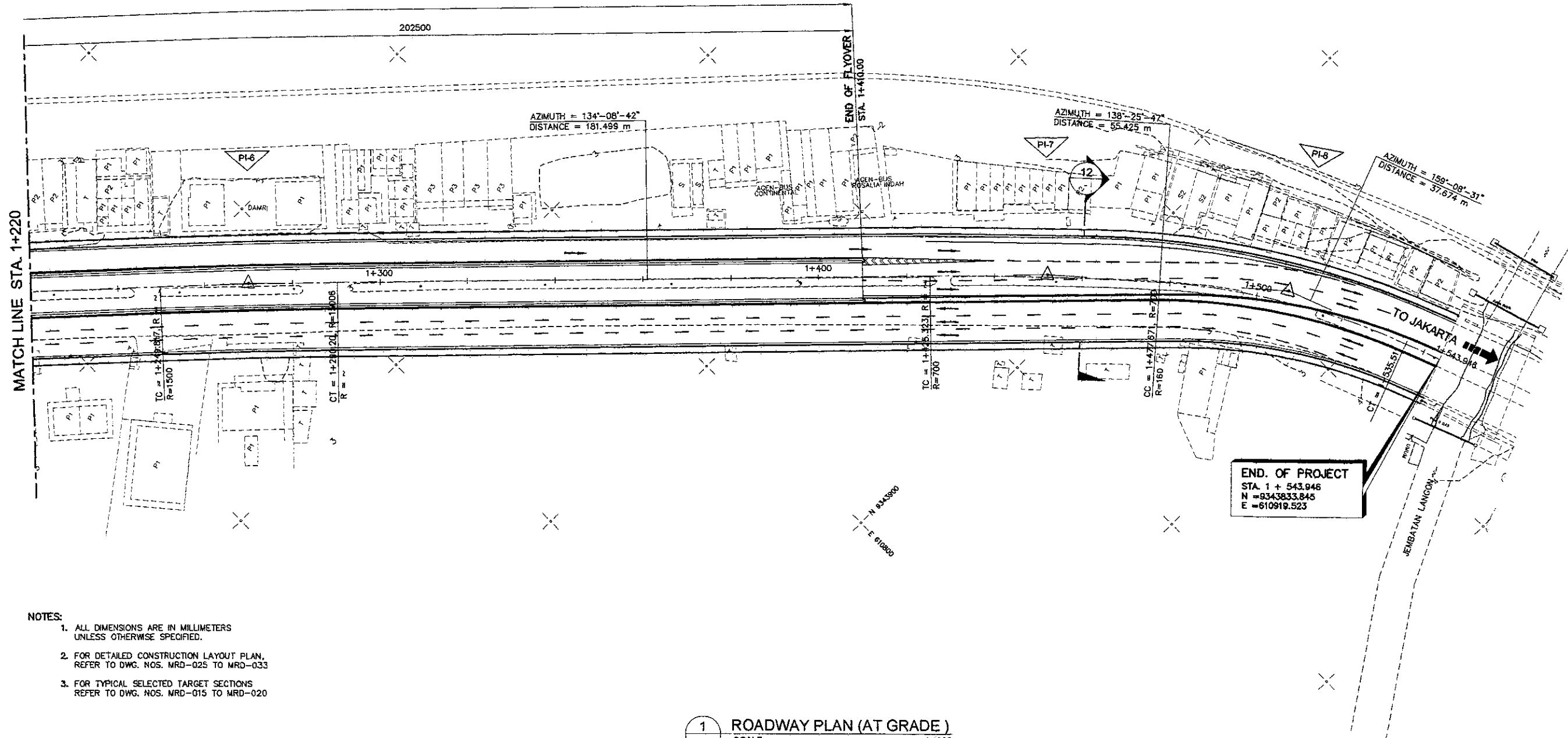
DATA	PI NO. - 7	UNITS
PI STA.	STA. 1 + 451.509	
N	9343910.517	m
E	610869.332	m
V	40	km/h
Δ	4-17-05.10	"
Θs	-	"
R	700	m
A	-	m
Ts	-	m
Es	0.490	m
Tc	26.186	m
La	-	m
Lc	52.348	m
L	52.348	m
e	EXISTING	%

DATA	PI NO. - 8	UNITS
PI STA.	STA. 1 + 506.910	
N	9343869.051	m
E	610906.109	m
V	40	km/h
Δ	20-42-44.68	"
Θs	-	"
R	160	m
A	-	m
Ts	-	m
Es	2.650	m
Tc	29.239	m
La	-	m
Lc	57.840	m
L	57.840	m
e	EXISTING	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT



KEY PLAN



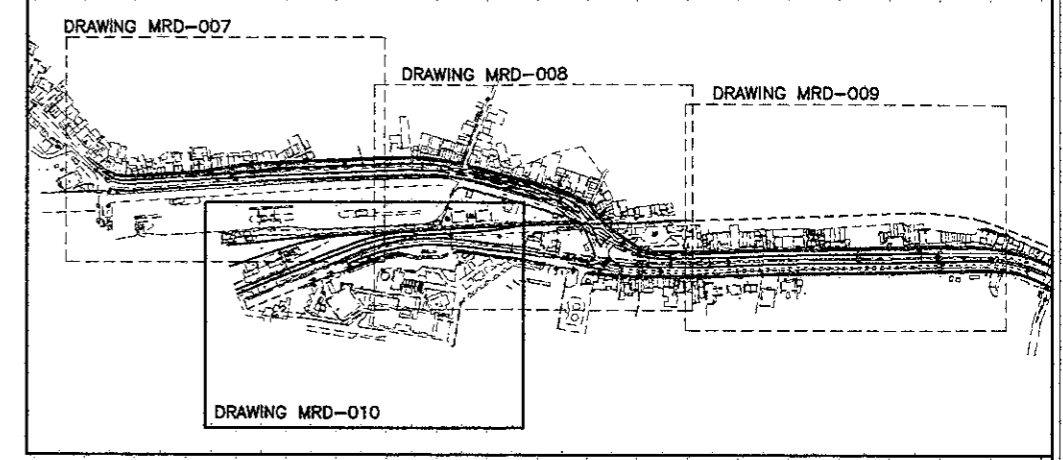
- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020

DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign: _____	Sign: _____	Sign: _____
Date: _____	Date: _____	Date: _____

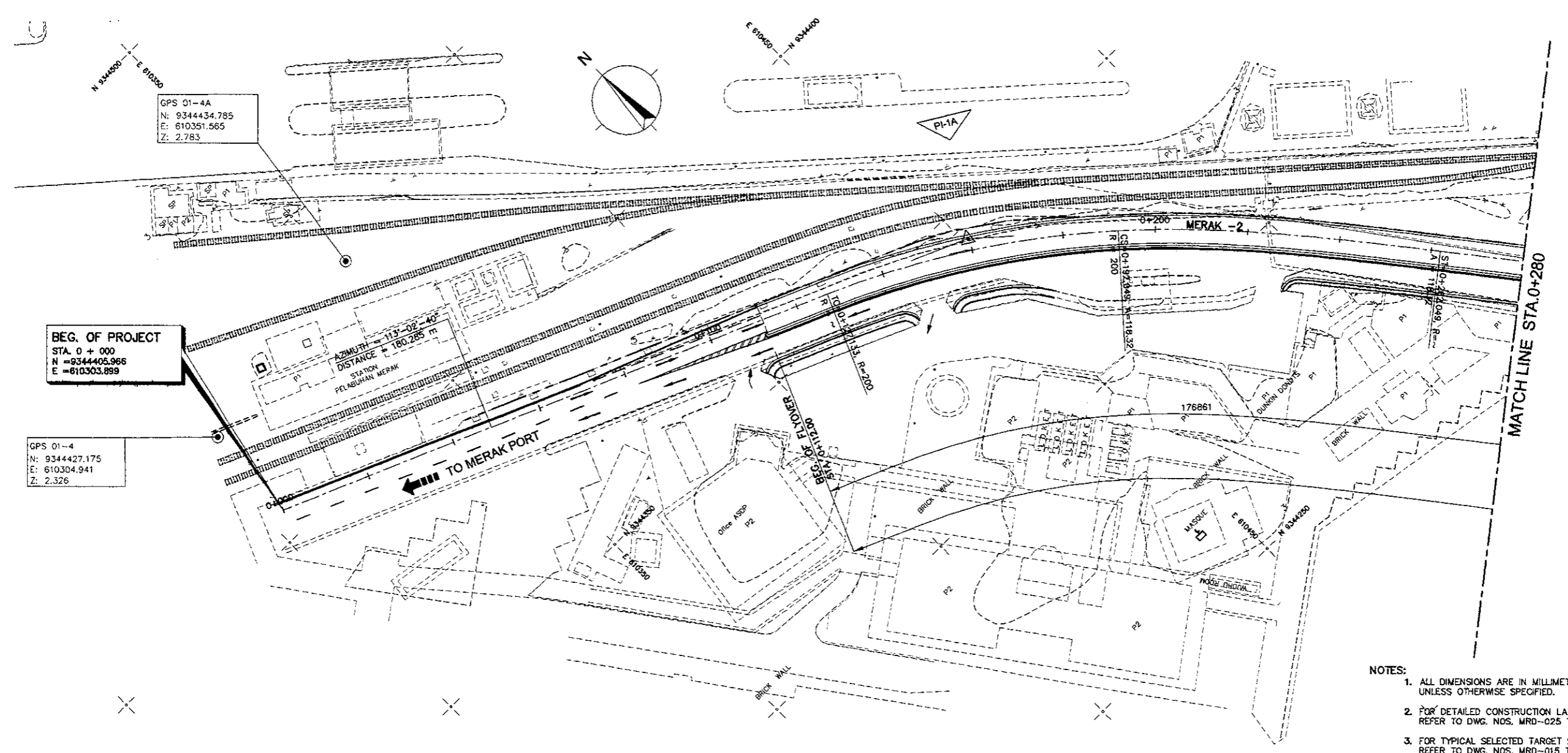
DATA	PI NO. - 1A	UNITS
PI STA.	STA. 0 + 180.285	
N	9344335.394	m
E	610469.798	m
V	40	km/h
Δ	28-37-25.52	"
Θs	-	"
R	200	m
A	118.322	m
Ts	84.119	m
Es	6.942	m
Tc	-	m
Ls	70	m
Lc	64.916	m
L	134.916	m
e	5.5	%

DATA	PI NO. - 2A	UNITS
PI STA.	STA. 0 + 428.657	
N	9344138.715	m
E	610625.303	m
V	40	km/h
Δ	9-03-57.64	"
Θe	-	"
R	600	m
A	-	m
Ts	-	m
Es	1.883	m
Tc	47.569	m
Ls	-	m
Lc	94.839	m
L	94.839	m
e	3.1	%

NOTE: CURVE DATA IS REFERRED FROM FLYOVER DESIGN CENTERLINE ALIGNMENT



KEY PLAN

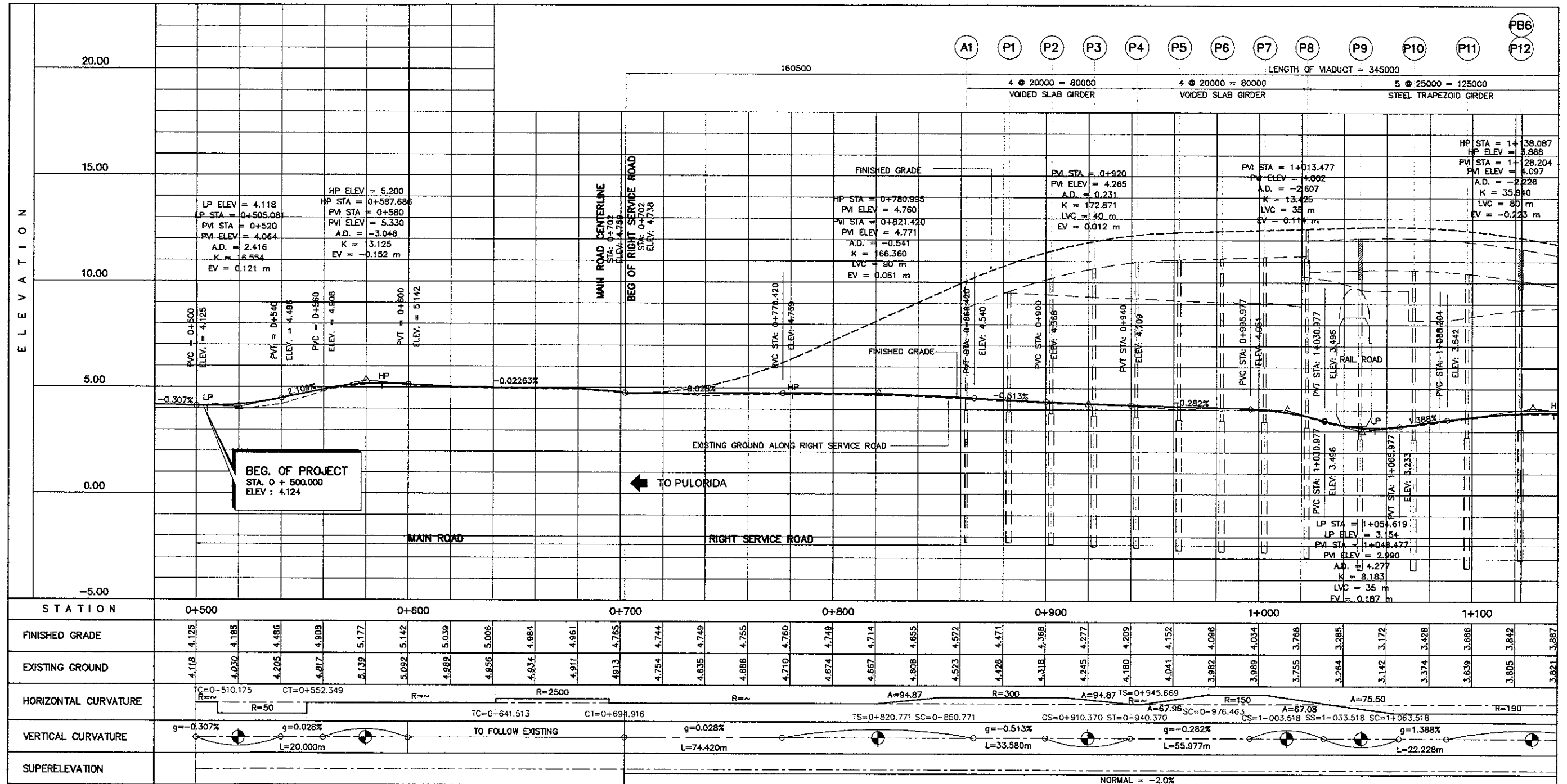


GPS 01-4A  
 N: 9344434.785  
 E: 610351.565  
 Z: 2.783

GPS 01-4  
 N: 9344427.175  
 E: 610304.941  
 Z: 2.326

BEG. OF PROJECT  
 STA. 0 + 000  
 N = 9344405.966  
 E = 610303.899

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  2. FOR DETAILED CONSTRUCTION LAYOUT PLAN, REFER TO DWG. NOS. MRD-025 TO MRD-033
  3. FOR TYPICAL SELECTED TARGET SECTIONS REFER TO DWG. NOS. MRD-015 TO MRD-020

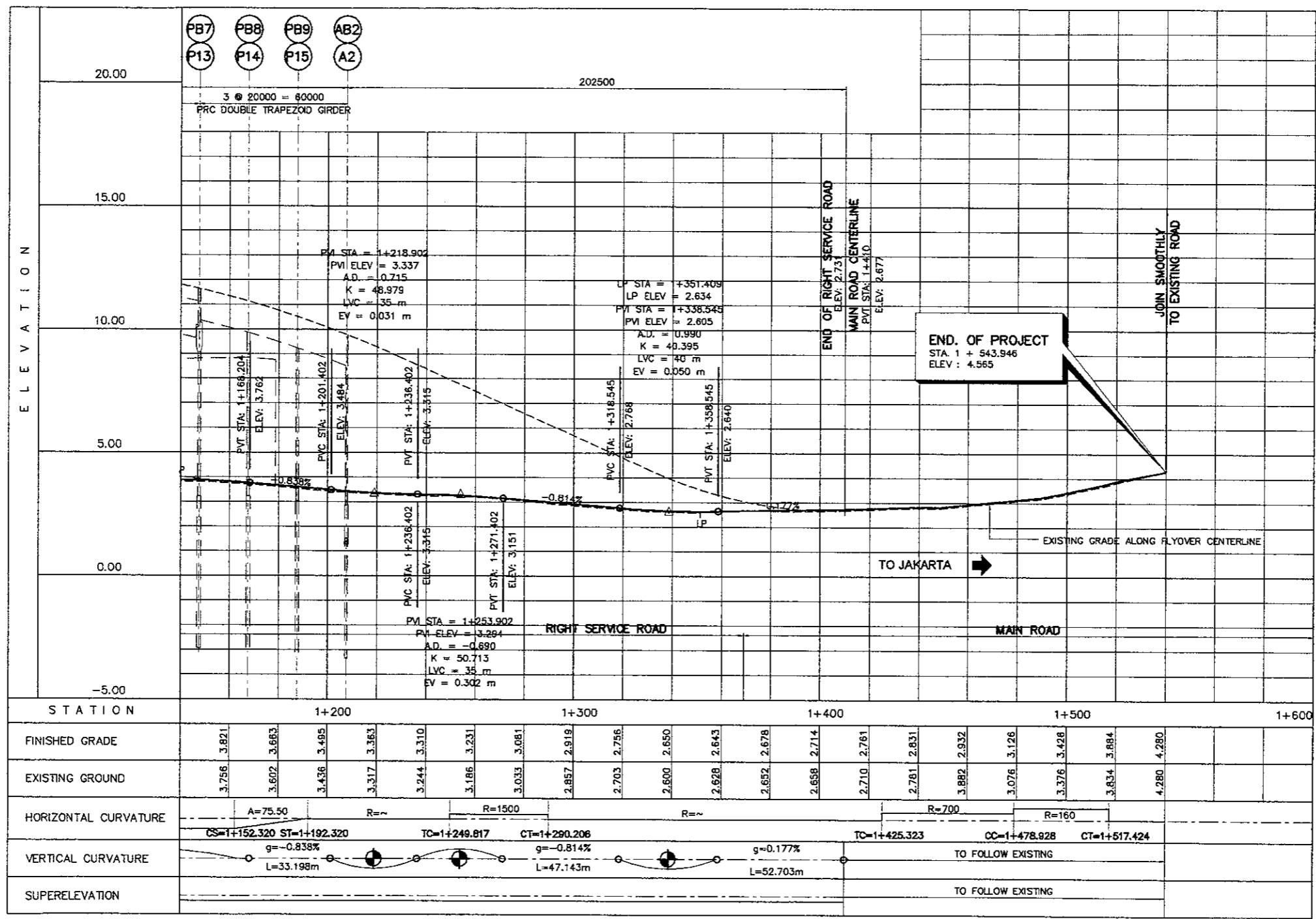


1 MAIN ROAD & RIGHT SERVICE ROAD PROFILE (1 OF 2)  
 H = 1: 2000  
 V = 1: 200

NOTES:

- EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
- EXISTING/FINISHED GRADE ELEVATIONS ALONG LEFT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
- HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
- SUPERELEVATION AT SERVICE ROAD SHALL BE -2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

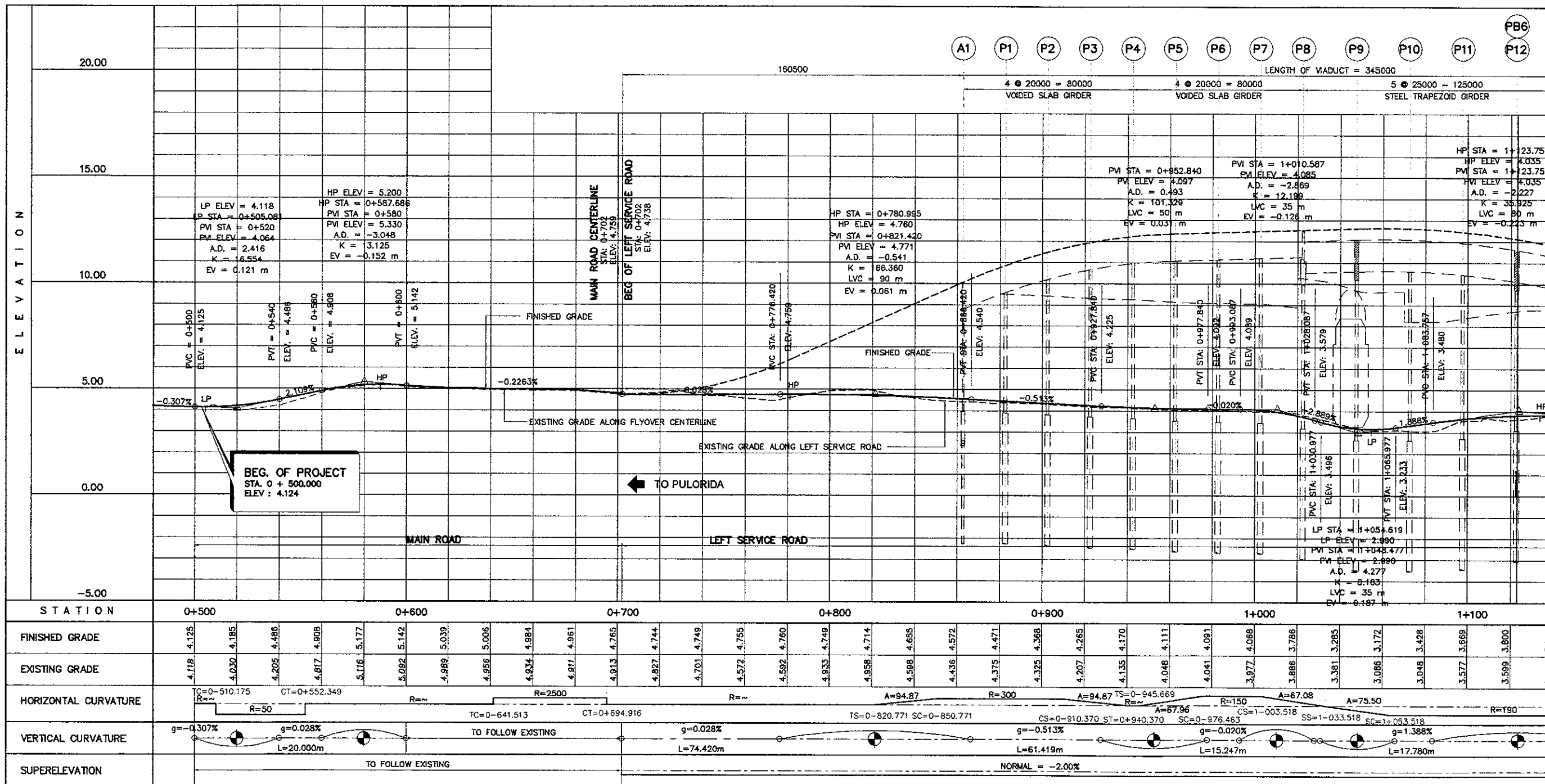
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



1 MAIN ROAD & RIGHT SERVICE ROAD PROFILE (2 OF 2)  
 SCALE H = 1:2000 V = 1:200

NOTES:

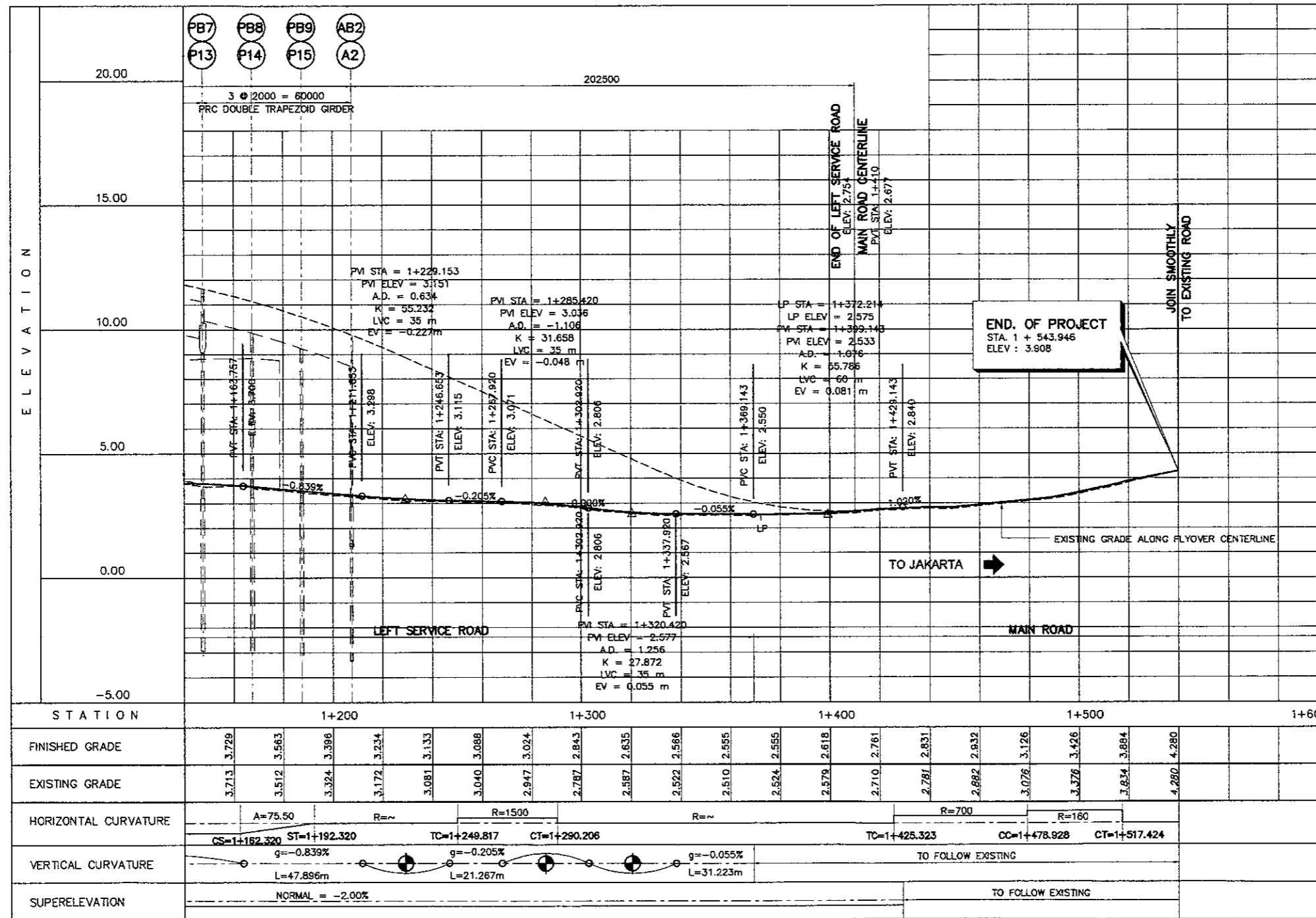
- EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
- EXISTING/FINISHED GRADE ELEVATIONS ALONG LEFT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
- HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
- SUPERELEVATION AT SERVICE ROAD SHALL BE -2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.



- NOTES:
- EXISTING GRADE ELEVATIONS ALONG MAIN ROAD ARE TAKEN FROM CENTERLINE OF FLYOVER OR INNER EDGE OF EXISTING ROAD.
  - EXISTING/FINISHED GRADE ELEVATIONS ALONG LEFT SERVICE ROAD ARE TAKEN FROM INNER EDGE OF NEW ROADWAY.
  - HORIZONTAL CURVATURE DIAGRAM IS REFERRED FROM FLYOVER CENTERLINE ALIGNMENT.
  - SUPERELEVATION AT SERVICE ROAD SHALL BE -2.0% AT NEW PAVEMENT OTHERWISE TO FOLLOW EXISTING CROSS SLOPE.

1 MAIN ROAD & LEFT SERVICE ROAD PROFILE (1 OF 2)  
 SCALE H = 1: 2000 V = 1: 200

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

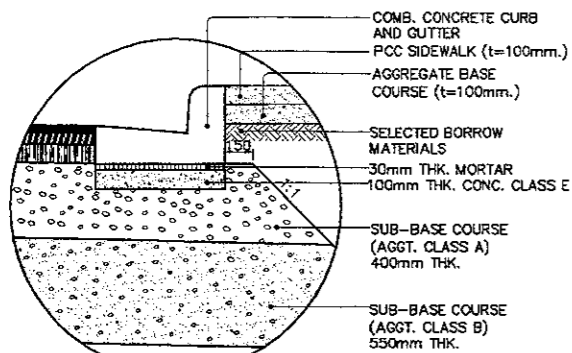


NOTES:

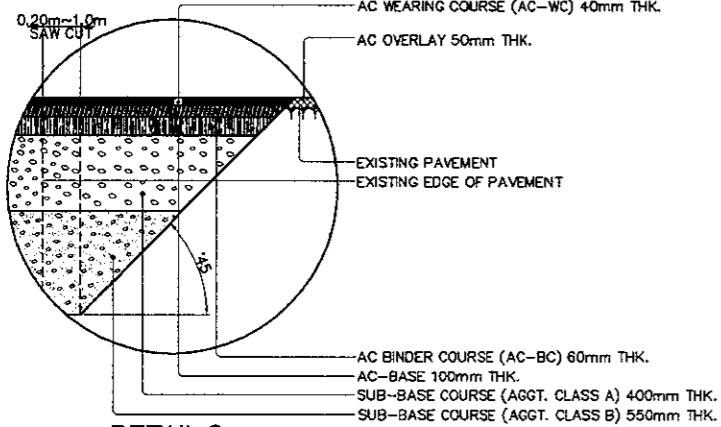
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**1** MAIN ROAD & LEFT SERVICE ROAD PROFILE (2 OF 2)  
 SCALE H = 1 : 2000  
 V = 1 : 200

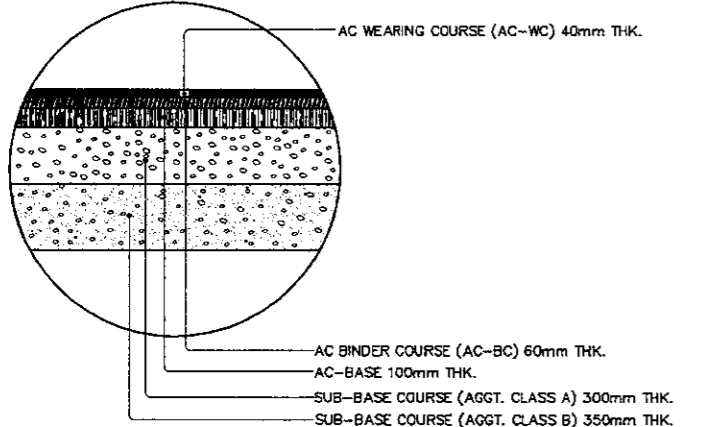
DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



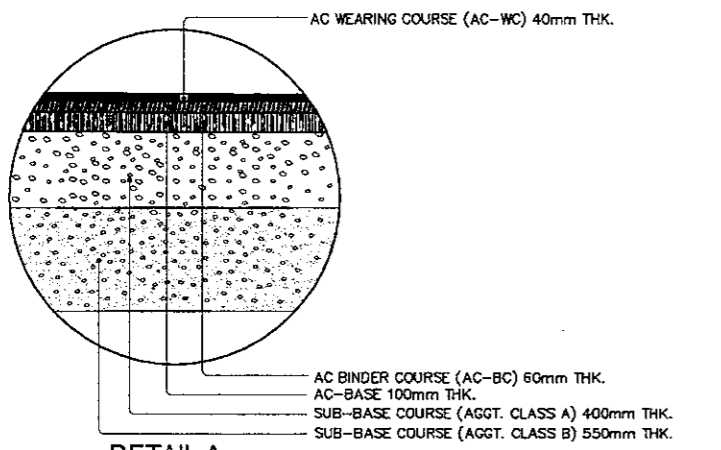
DETAIL D  
 SCALE 1:40



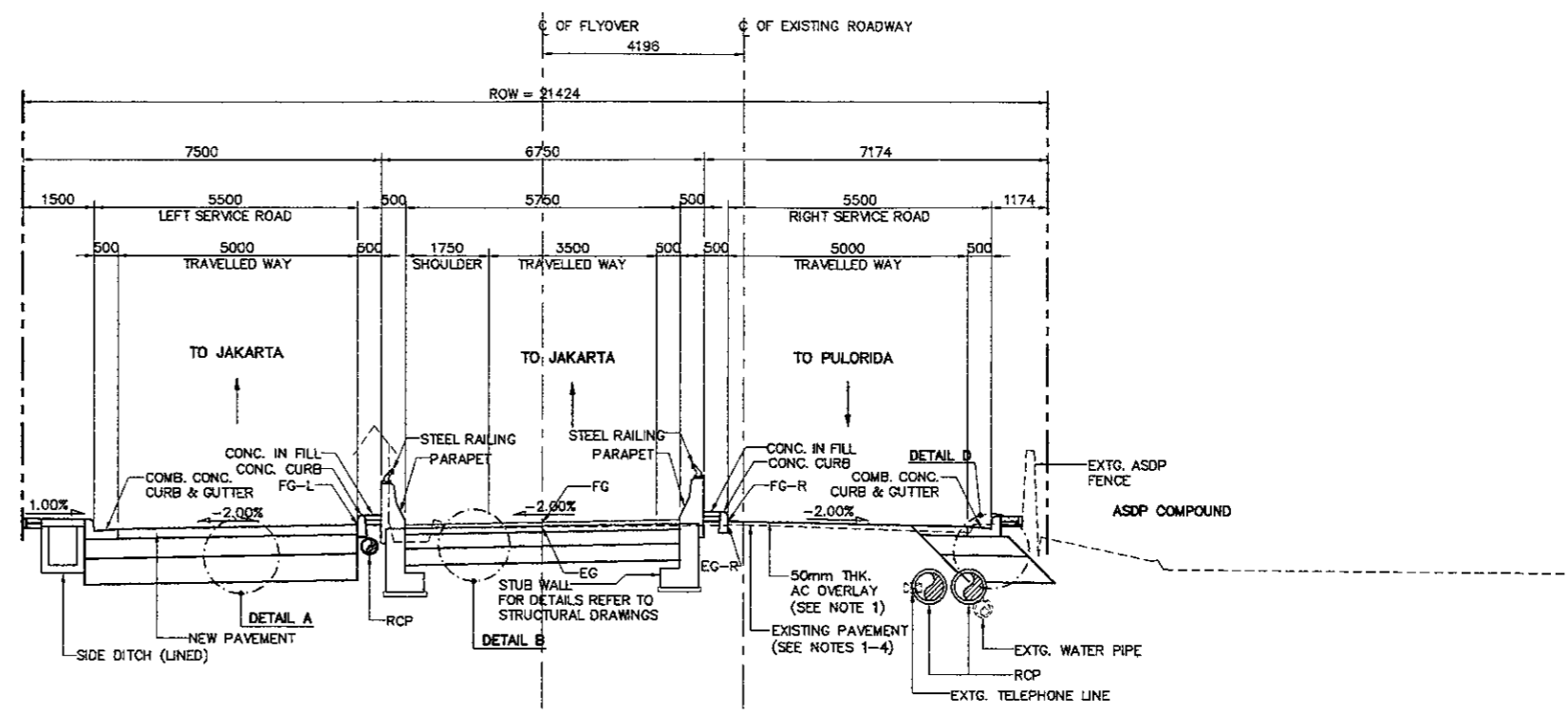
DETAIL C  
 SCALE 1:40



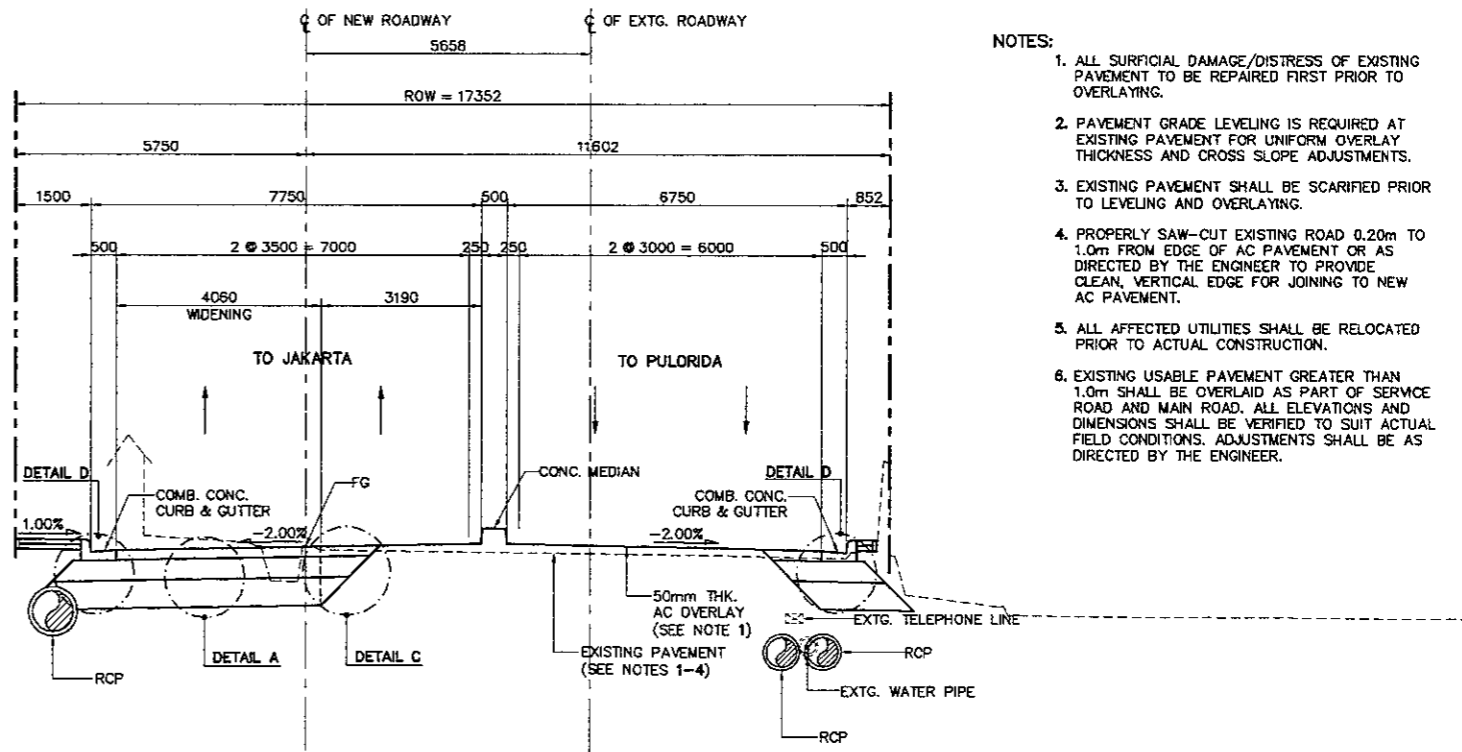
DETAIL B  
 SCALE 1:40



DETAIL A  
 SCALE 1:40



2 SECTION AT APPROACH RAMP (STA. 0+720.000)  
 SCALE 1:150



1 SECTION NEAR BEGINNING OF PROJECT (STA. 0+580.000)  
 SCALE 1:150

- NOTES:
1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
  2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
  3. EXISTING PAVEMENT SHALL BE SCARIFIED PRIOR TO LEVELING AND OVERLAYING.
  4. PROPERLY SAW-CUT EXISTING ROAD 0.20m TO 1.0m FROM EDGE OF AC PAVEMENT OR AS DIRECTED BY THE ENGINEER TO PROVIDE CLEAN, VERTICAL EDGE FOR JOINING TO NEW AC PAVEMENT.
  5. ALL AFFECTED UTILITIES SHALL BE RELOCATED PRIOR TO ACTUAL CONSTRUCTION.
  6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.



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Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	

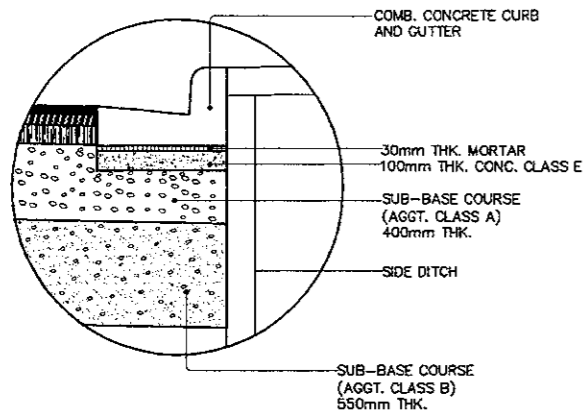
APPROVED BY: Ir. HERRY VAZA M.Eng.Sc  
 NIP. : 110038400

PROJECT AND LOCATION :  
 DETAILED DESIGN STUDY OF  
 NORTH JAVA CORRIDOR FLYOVER PROJECT  
 MERAK FLYOVER - CONTRACT PACKAGE 1  
 ( MERAK - BALARAJA )  
 BANTEN PROVINCE

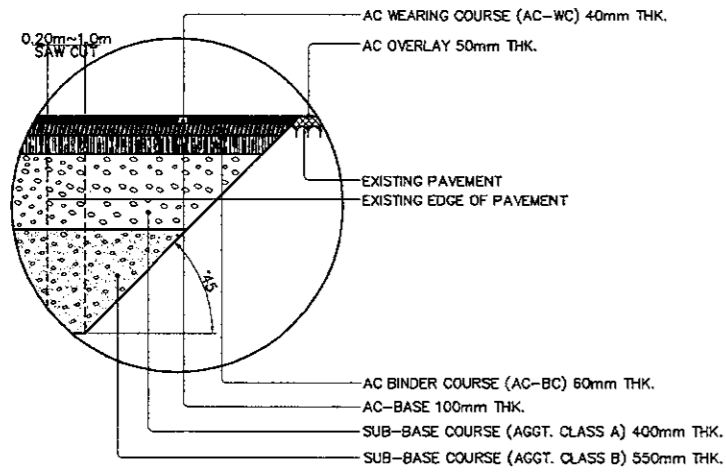
SCALE :  
 1 : 150  
 FULL SIZE A3

DRAWING TITLE :  
 TYPICAL ROAD CROSS SECTION  
 (2 OF 6)

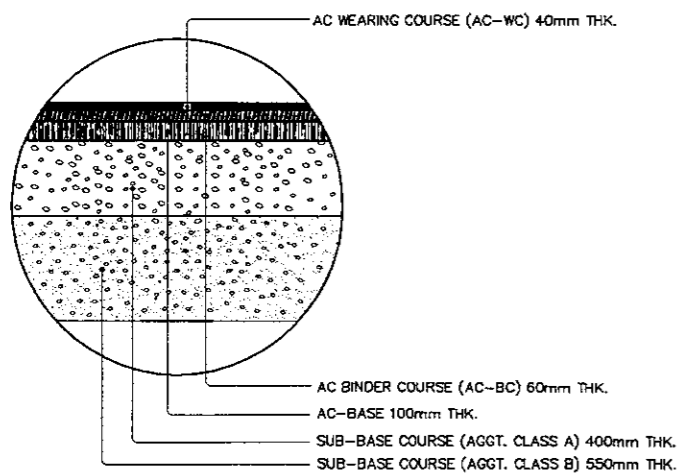
DRAWING NO :  
 MRD-016  
 SHEET NO :  
 16 / 84



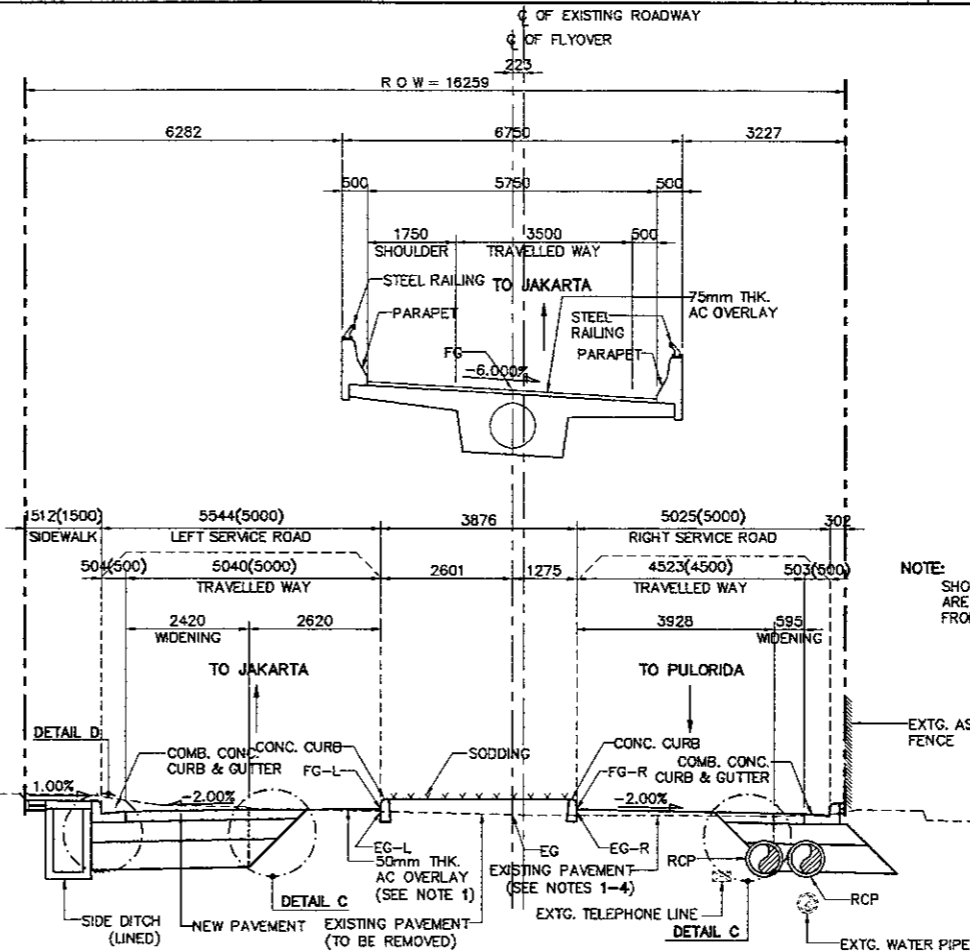
**DETAIL D**  
 SCALE 1:40



**DETAIL C**  
 SCALE 1:40

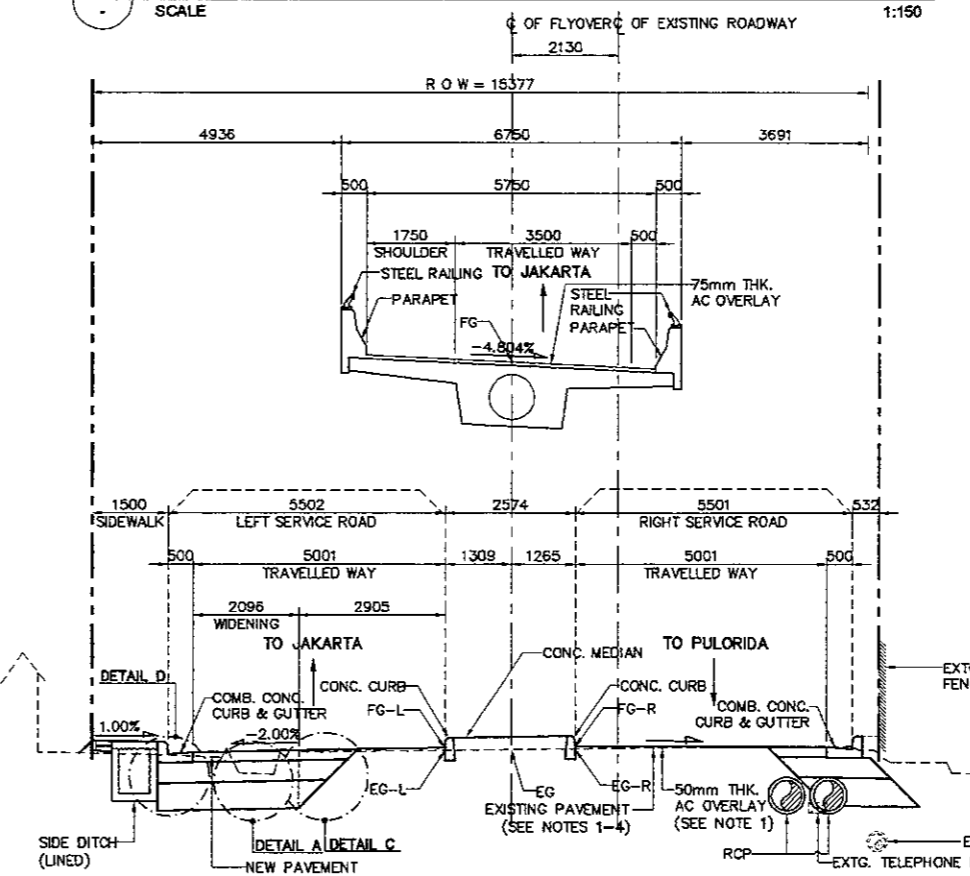


**DETAIL A**  
 SCALE 1:40



**4 SECTION APPROACHING UNDIVIDED ROAD (STA. 0+980.000)**  
 SCALE 1:150

NOTE:  
 SHOWN IN PARENTHESIS ( )  
 ARE NORMAL DIMENSIONS  
 FROM SKEWED SECTION.

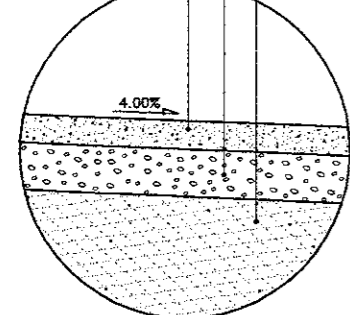


**3 SECTION NEAR INTERSECTION (STA. 0+920.000)**  
 SCALE 1:150

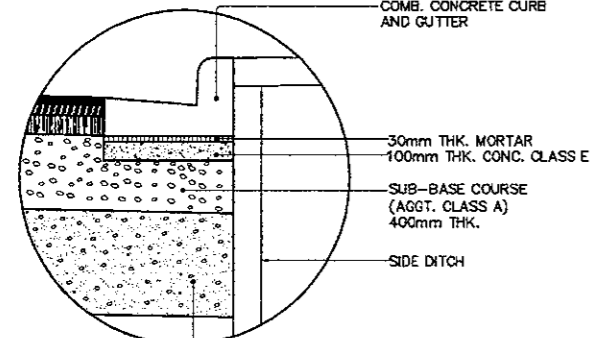
- NOTES:**
1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
  2. PAVEMENT GRADE LEVELING IS REQUIRED AT EXISTING PAVEMENT FOR UNIFORM OVERLAY THICKNESS AND CROSS SLOPE ADJUSTMENTS.
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  6. EXISTING USABLE PAVEMENT GREATER THAN 1.0m SHALL BE OVERLAID AS PART OF SERVICE ROAD AND MAIN ROAD. ALL ELEVATIONS AND DIMENSIONS SHALL BE VERIFIED TO SUIT ACTUAL FIELD CONDITIONS. ADJUSTMENTS SHALL BE AS DIRECTED BY THE ENGINEER.

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Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date

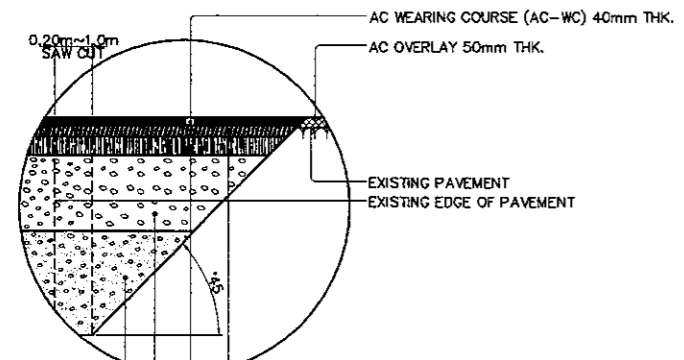
PCC SHOULDER 150mm THK.  
 BASE COURSE (AGGT. CLASS A) 250mm THK.  
 SUB-GRADE



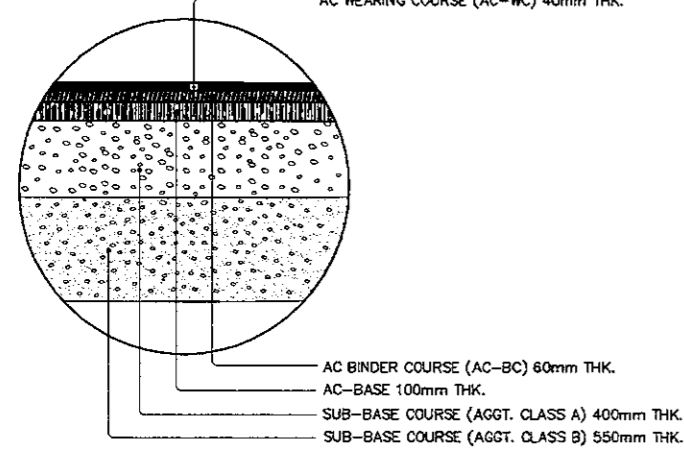
DETAIL E  
 SCALE 1:40



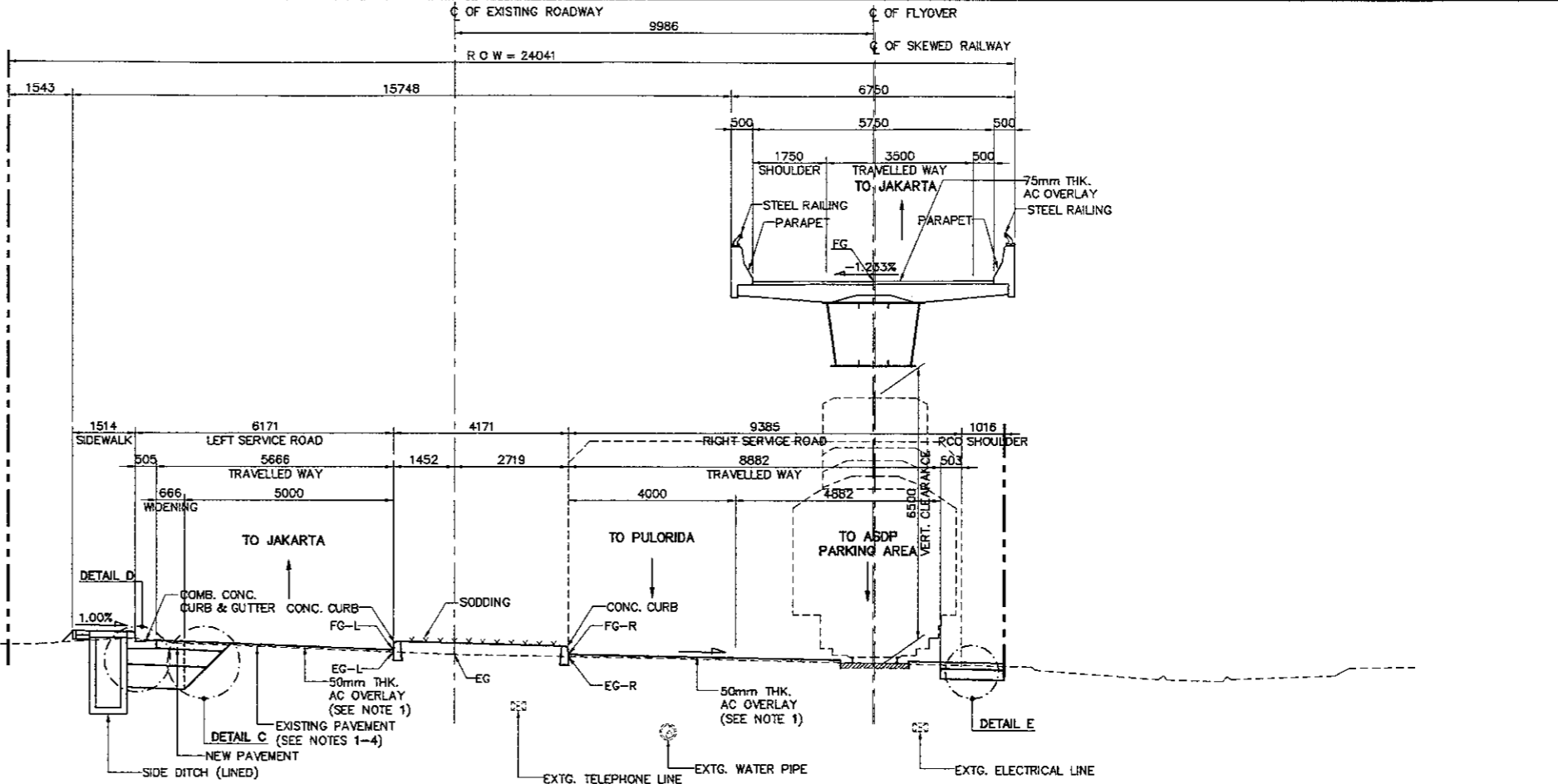
DETAIL D  
 SCALE 1:40



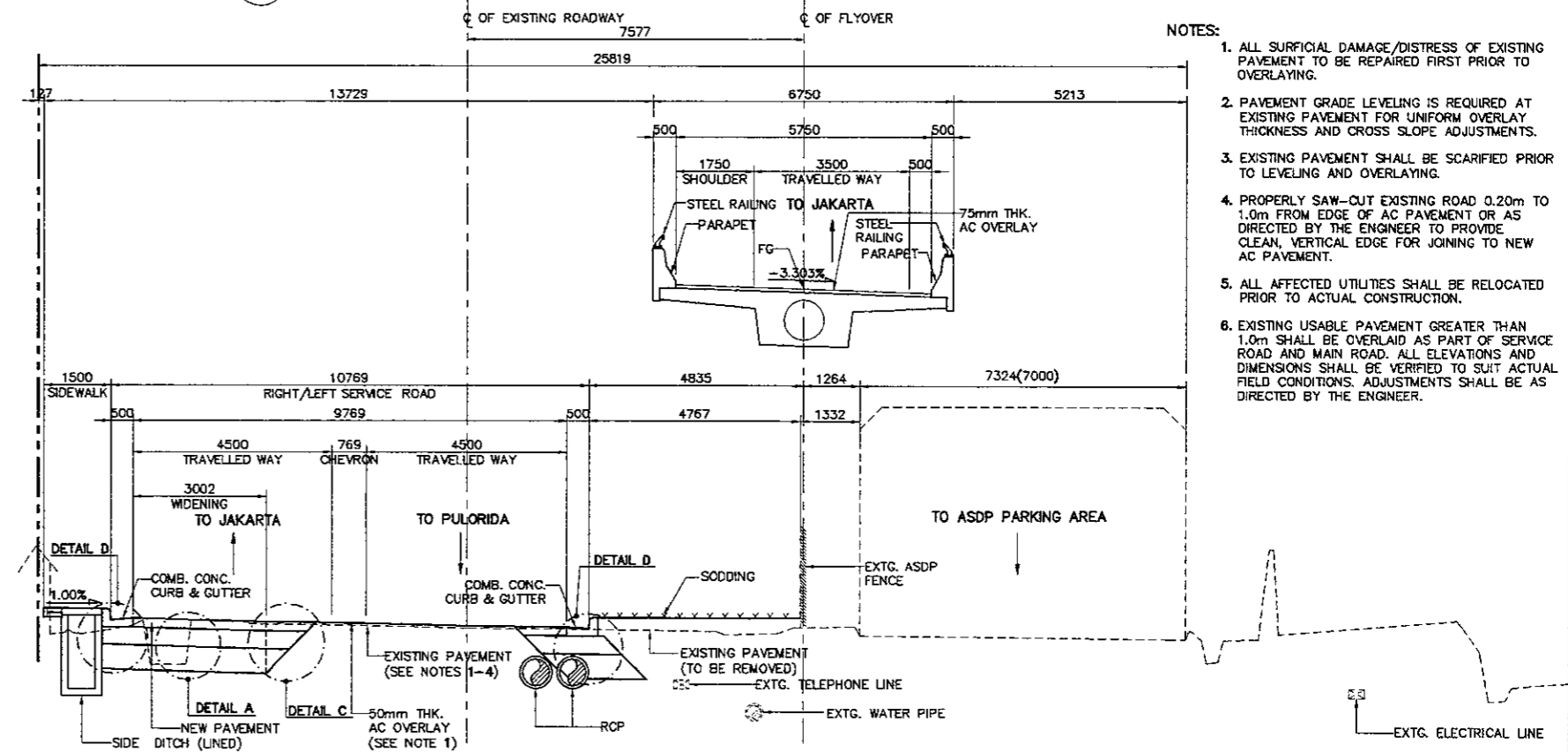
DETAIL C  
 SCALE 1:40



DETAIL A  
 SCALE 1:40



6 SECTION AT RAILWAY INTERSECTION (1+044.750)  
 SCALE 1:150

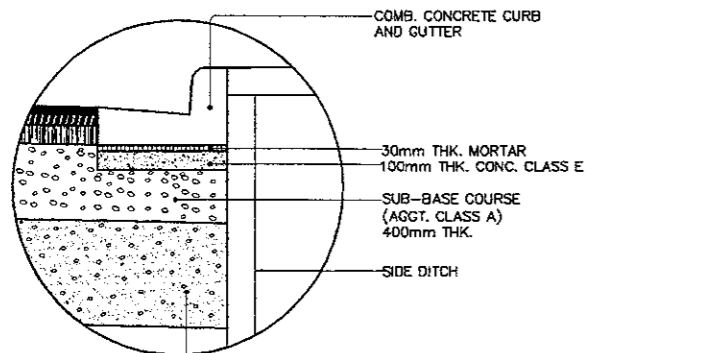


5 SECTION AT UNDIVIDED ROAD (1+012.357)  
 SCALE 1:150

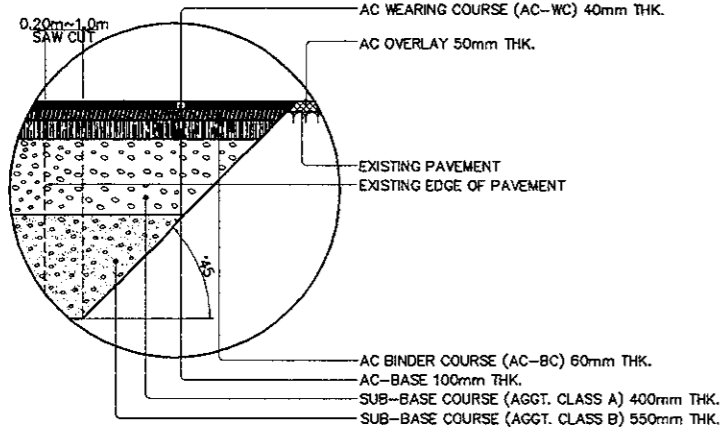
- NOTES:
1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
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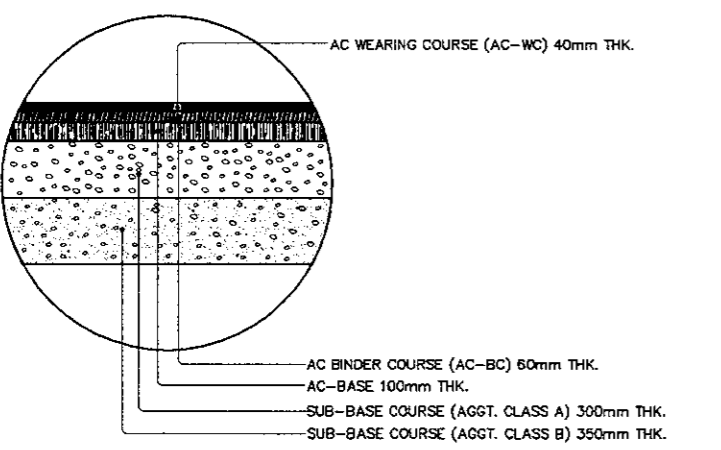
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign:	Sign:	Sign:
Date:	Date:	Date:



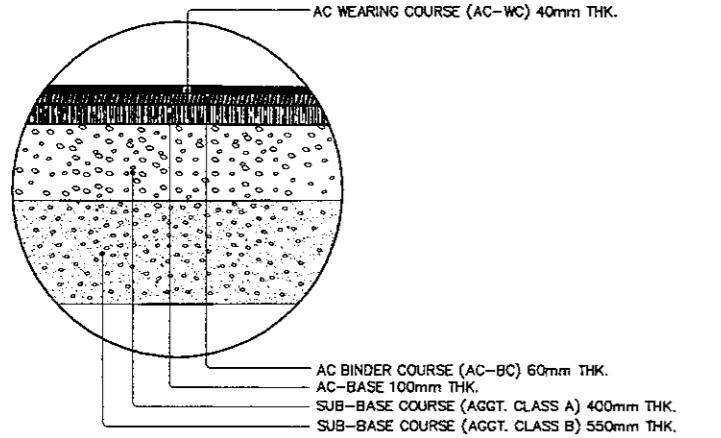
**DETAIL E**  
 SCALE 1:40



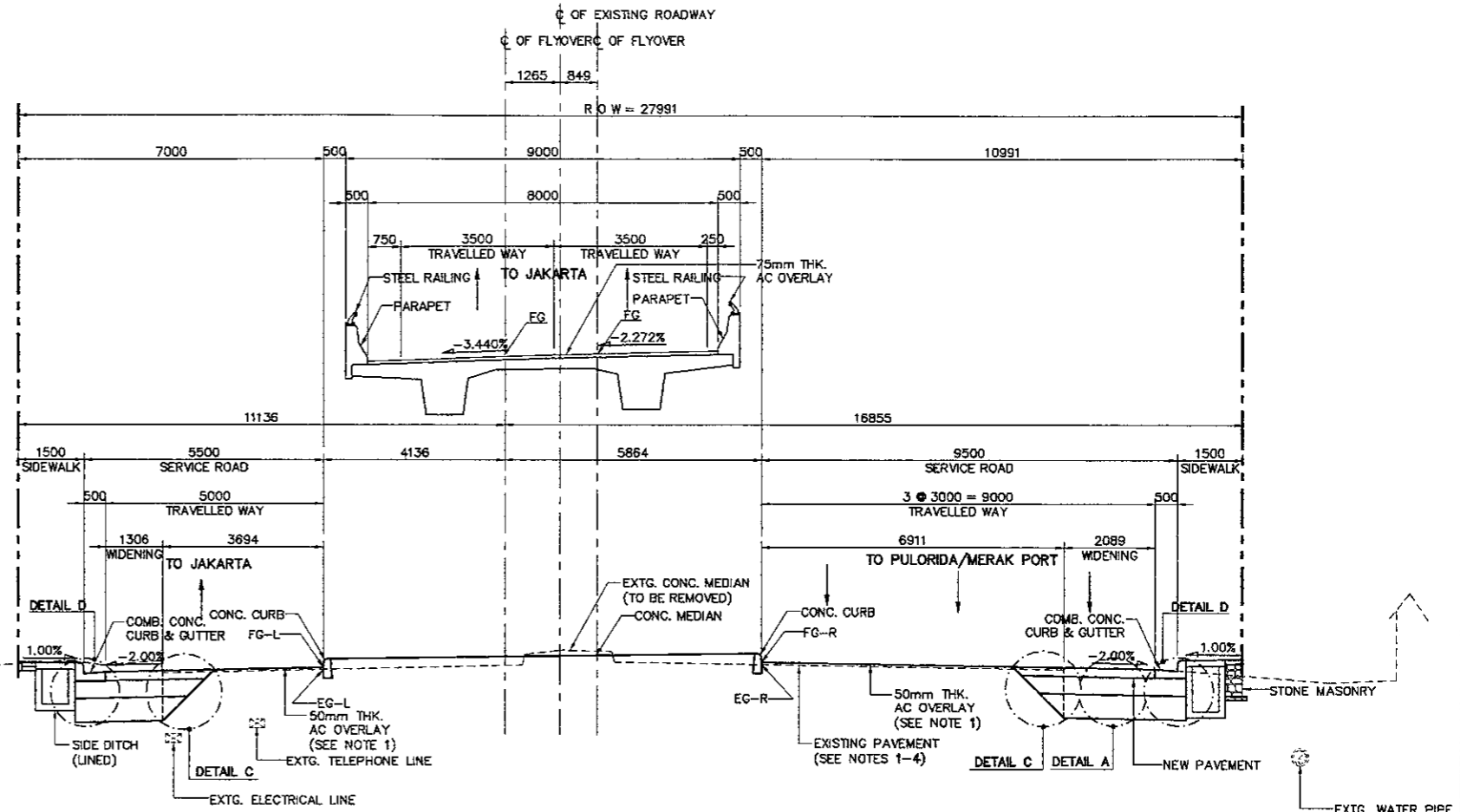
**DETAIL C**  
 SCALE 1:40



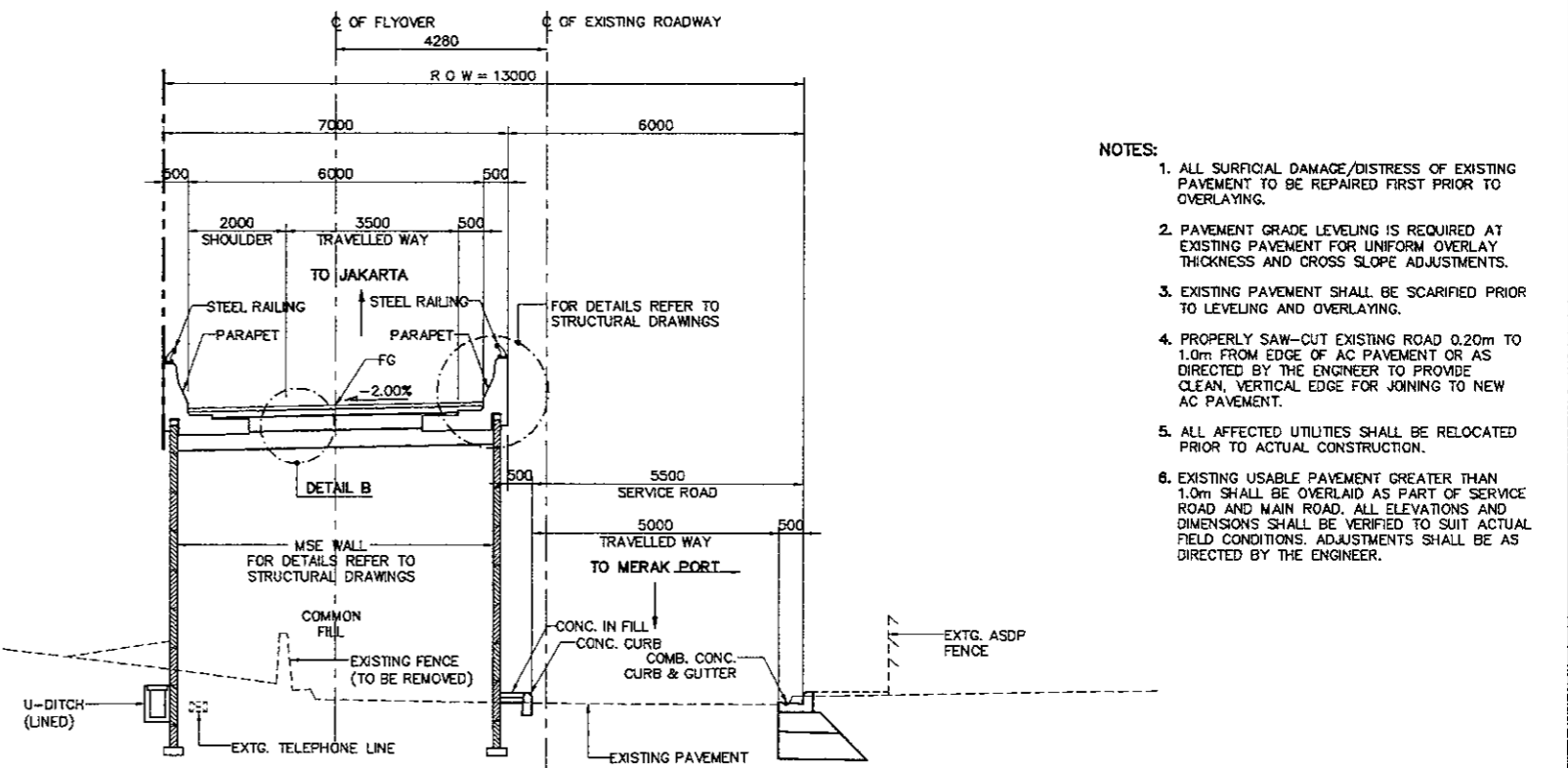
**DETAIL B**  
 SCALE 1:40



**DETAIL A**  
 SCALE 1:40



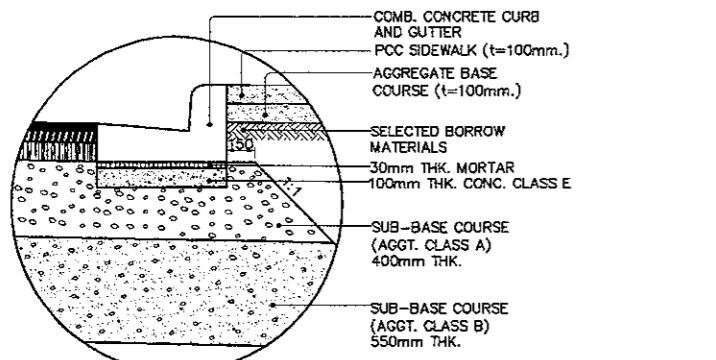
**10 SECTION NEAR PIER 15 (STA. 1+184.423)**  
 SCALE 1:150



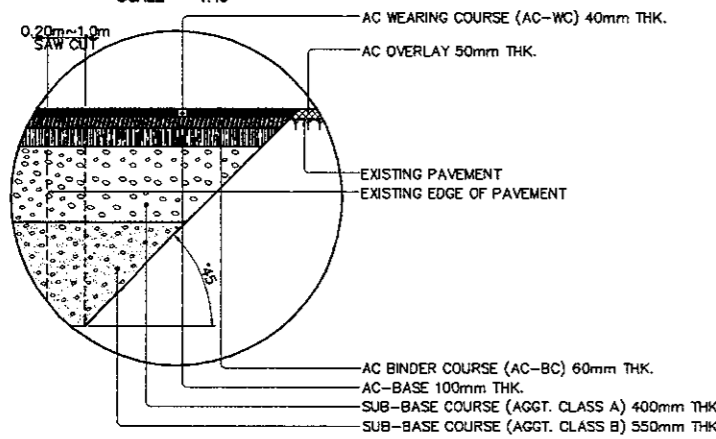
**9 SECTION AT NEAR ABUTMENT AB1 (STA. 0+285.000)**  
 SCALE 1:150

- NOTES:**
1. ALL SURFICIAL DAMAGE/DISTRESS OF EXISTING PAVEMENT TO BE REPAIRED FIRST PRIOR TO OVERLAYING.
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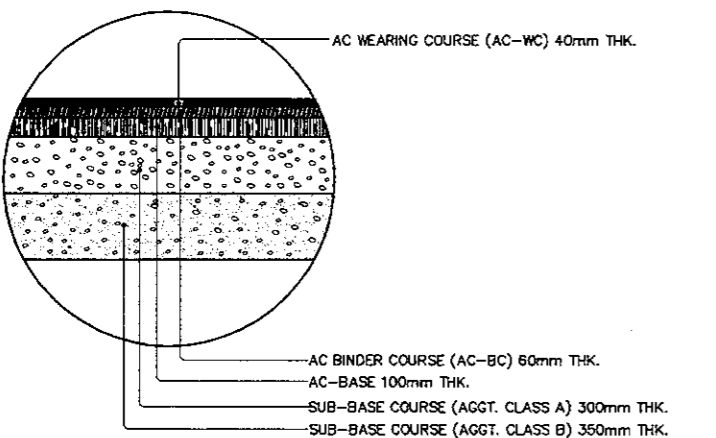
DESIGNED BY	CHECKED BY	SUBMITTED BY
Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



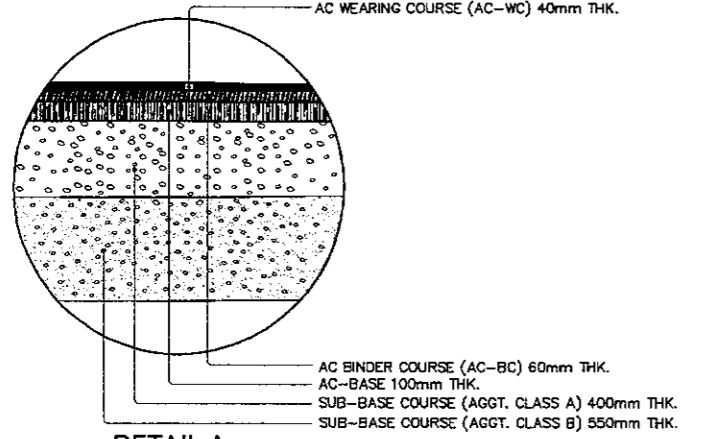
DETAIL D  
 SCALE 1:40



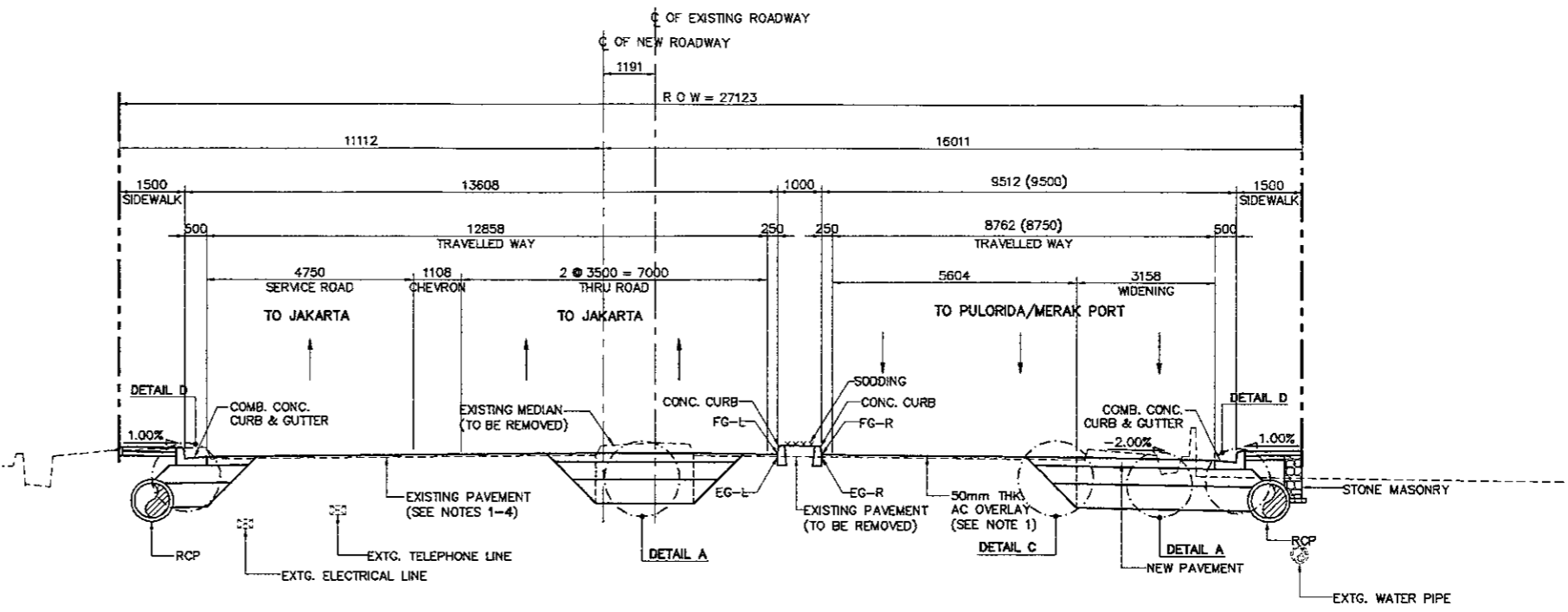
DETAIL C  
 SCALE 1:40



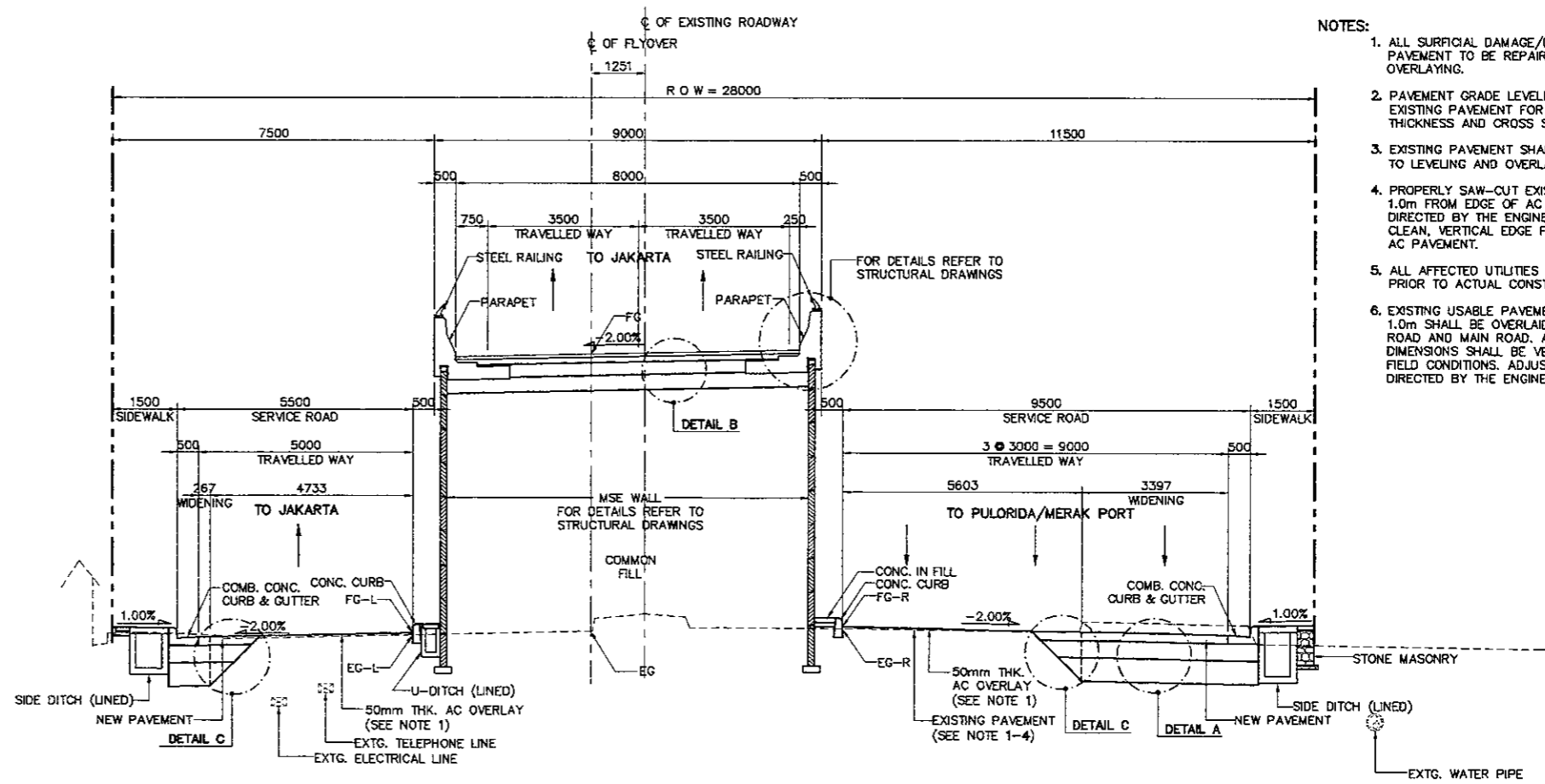
DETAIL B  
 SCALE 1:40



DETAIL A  
 SCALE 1:40

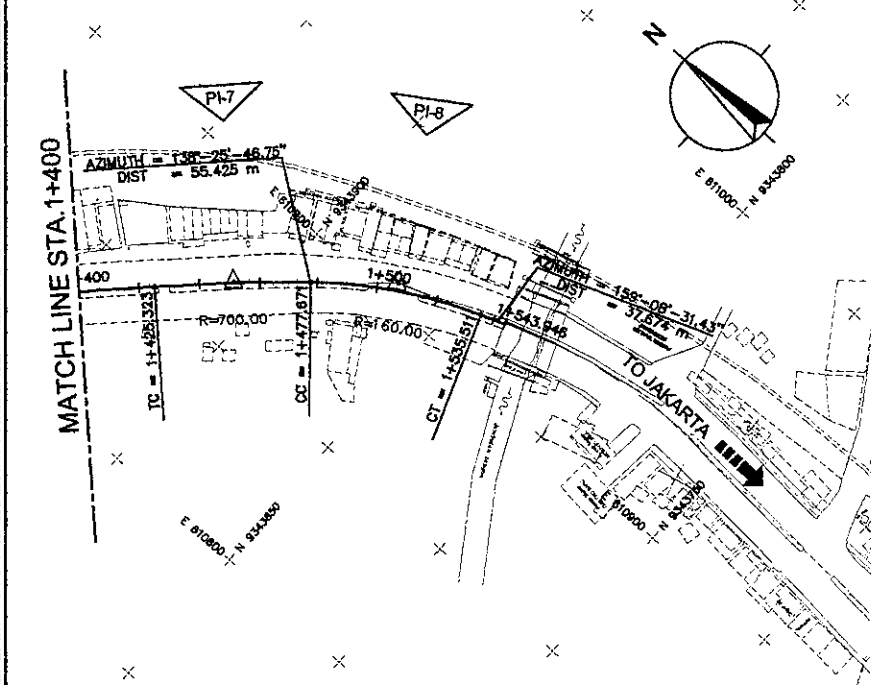
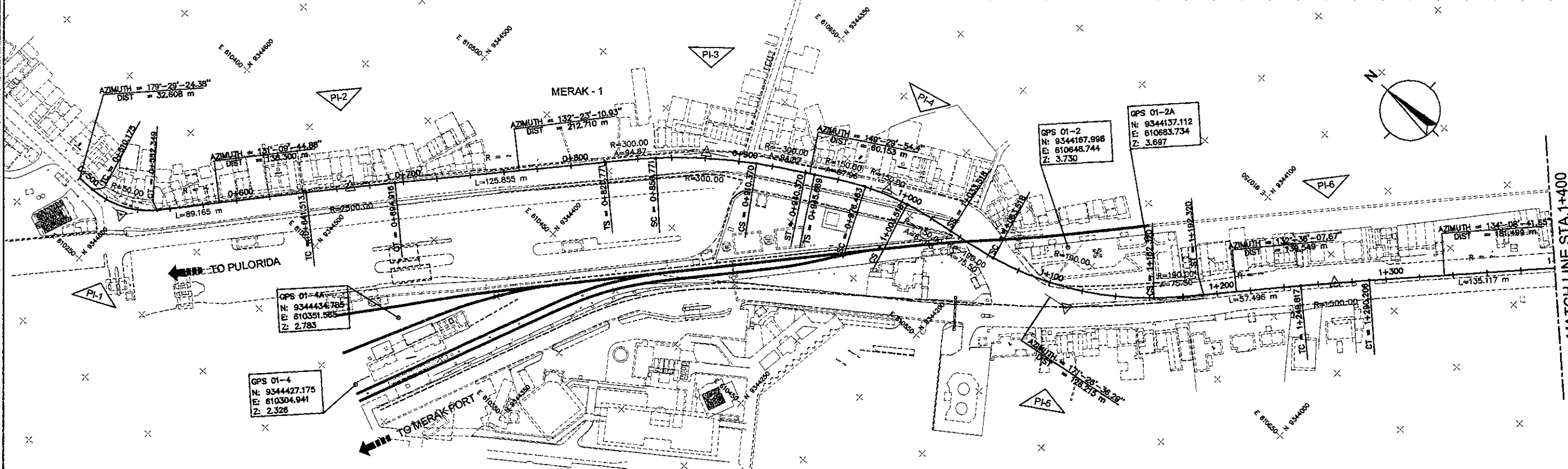


12 SECTION NEAR END OF PROJECT (STA. 1+460.000)  
 SCALE 1:150



11 SECTION AT NEAR ABUTMENT A2 (STA. 1+210.000)  
 SCALE 1:150

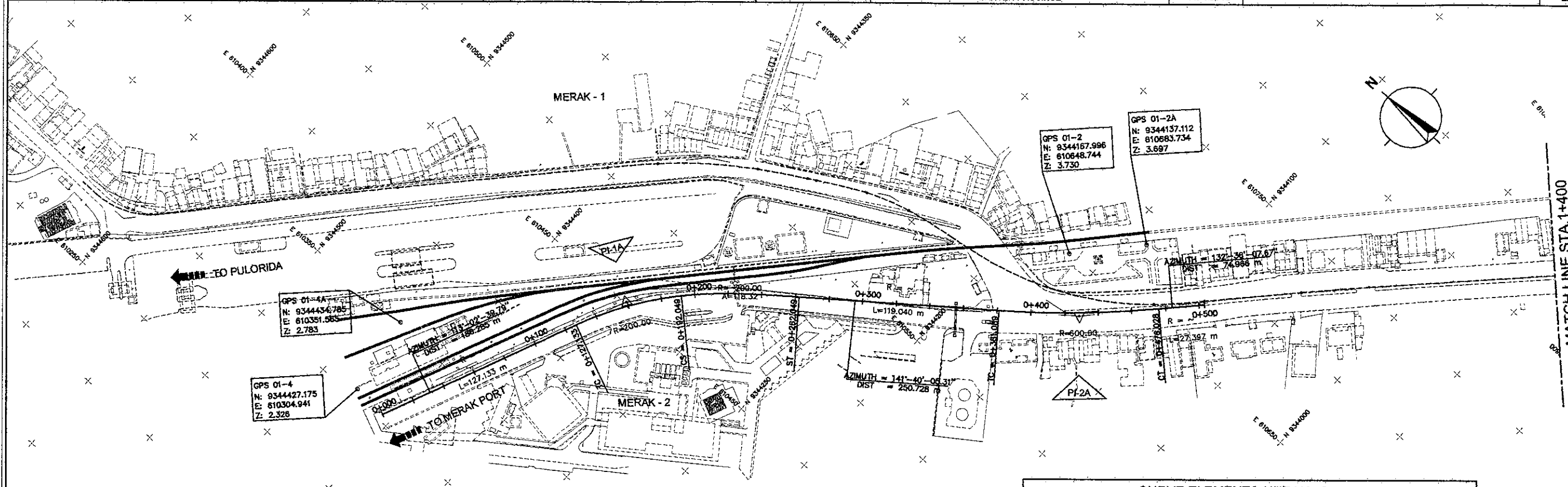
- NOTES:
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	GPS 01-1A	GPS 01-1	GPS 01-4A	GPS 01-4	GPS 01-2	GPS 01-2A	GPS 01-3	GPS 01-3A
N	9344887.288	9344852.107	9344434.785	9344427.175	9344167.996	9344137.112	9343417.648	9343427.598
E	610179.422	610155.868	610351.565	610304.941	610648.744	610683.734	610830.474	610859.162
Z	1.862	2.055	2.783	2.326	3.730	3.697	3.952	3.588

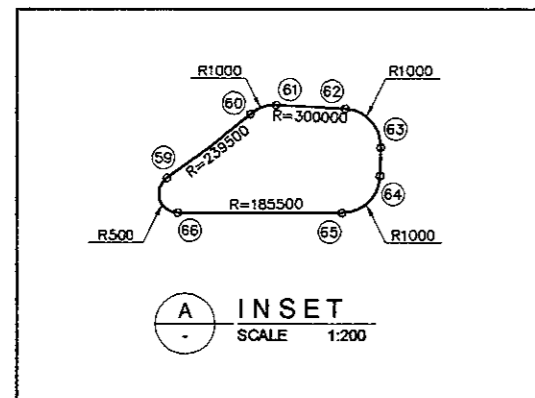
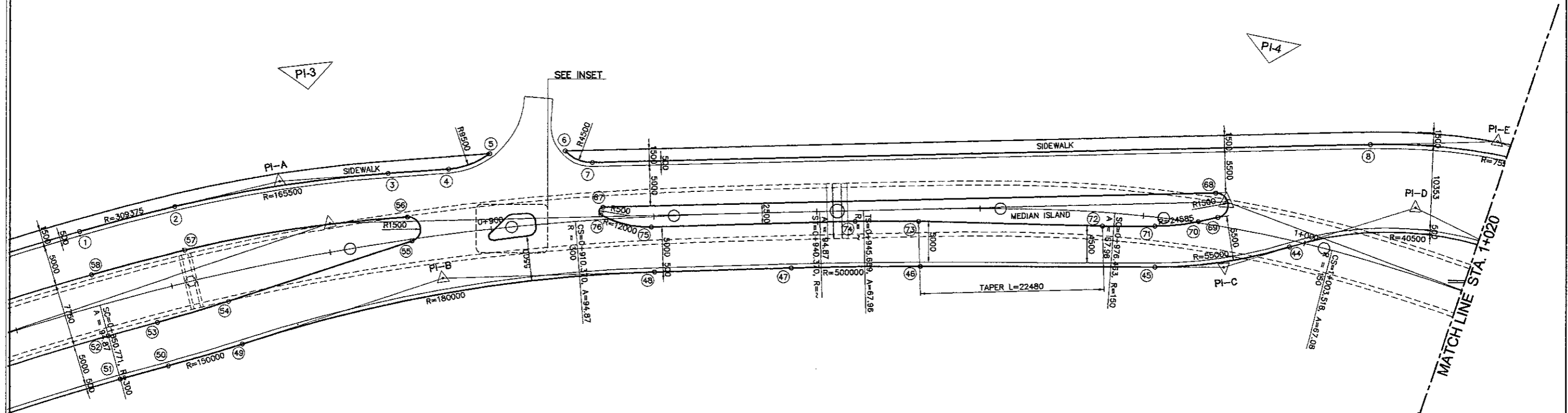
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STA 0+500	40	40	40	40	40	40	40	40	STA 1+543.946	
V (Km/Hours)	40	40	40	40	40	40	40	40	V (Km/Hours)	
TYPE	LEFT	RIGHT	RIGHT	RIGHT	LEFT	RIGHT	RIGHT	RIGHT	TY PE	
E 610285.407	48-19-39.5	1-13-28.1	11-22-56.9	10-20-03.3	29-47-40.5	1-32-34	4-17-05.1	20-42-44.7	E 610919.523	
R (m)	50	2500	300	150	190	1500	700	180	R (m)	
A (M)			94.868	94.868	67.964	67.082	75.50	75.50	A (m)	
TS / TC (m)	22.433	26.702	60.153	60.153	44.489	44.162	82.05	82.05	20.196	
LC (m)	42.174	53.403	59.599	27.055	98.803	40.390	52.348	57.840	LC (m)	
LS (m)			30	30	30.794	30	30	30	LS (m)	
L (m)	42.174	53.403	119.589	87.849	158.803	40.390	52.348	57.840	L (m)	
e max (%)	EXISTING	EXISTING	4.6	6.0	5.6	2.0	EXISTING	EXISTING	e max (%)	
PI	STA 0+532.608	0+688.216	0+880.924	0+990.156	1+115.571	1+270.013	1+451.509	1+506.910	STA	
N	9344599.017	9344507.989	9344364.595	9344269.868	9344145.058	9344036.926	9343910.517	9343869.051	N	
E	610285.697	610389.816	610546.927	610602.729	610621.508	610739.092	610869.332	610906.109	E	
TS/SS	STA		0+820.771	0+945.669	1+033.518				STA	
N			9344405.146	9344308.201	9344226.198				N	
E			610502.497	610580.148	610609.299				E	
SC/TC	STA	0+510.175	0+641.513	0+850.771	0+976.463	1+063.518	1+248.817	1+425.323	1+477.671	STA
N	9344621.449	9344525.564	9344384.558	9344281.162	9344196.668	9344050.597	9343928.753	9343890.926	9343841.728	N
E	610285.497	610369.713	610524.313	610594.854	610614.540	610724.226	610850.541	610886.707	610919.523	E
CS/CT	STA	0+552.349	0+694.916	0+910.370	1+003.518	1+162.320	1+290.206	1+477.671	1+535.511	STA
N	9344584.252	9344489.988	9344338.355	9344255.886	9344110.392	9344022.860	9343890.926	9343841.728	9343841.728	N
E	610302.585	610409.538	610561.804	610603.852	610660.370	610753.584	610886.707	610918.519	610918.519	E
ST/SS	STA			0+940.370	1+033.518	1+192.320				STA
N				9344312.766	9344226.198	9344089.517				N
E				610577.458	610609.299	610681.904				E
179-29-24.4	AZIMUTH	131-09-44.9	132-23-10.9	149-29-54.4	171-28-36.3	132-36-07.7	134-08-41.7	138-25-46.8	159-08-31.4	AZIMUTH

DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign: _____	Sign: _____	Sign: _____
Date: _____	Date: _____	Date: _____



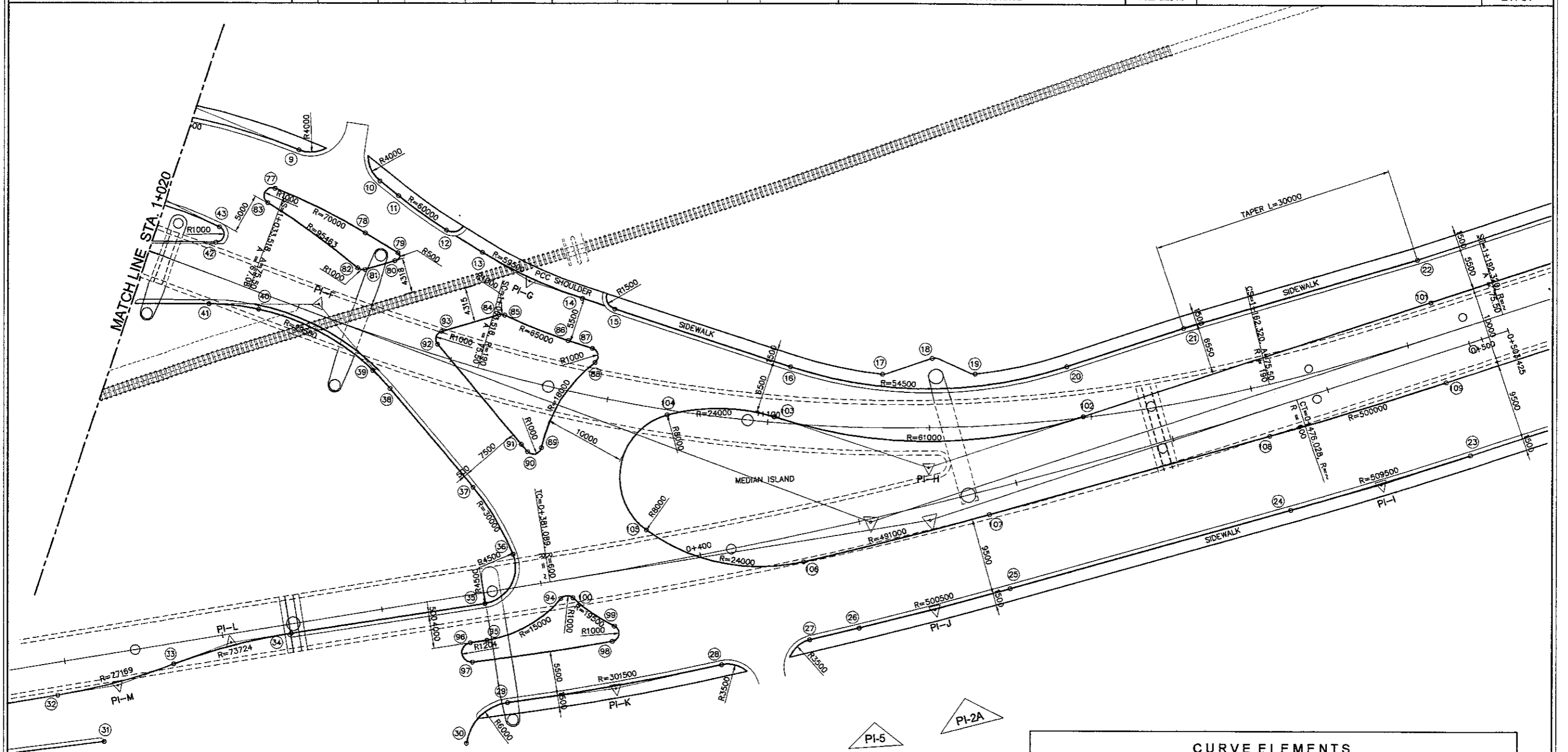
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STA	0+000	V (Km/Hours) 40	40	V (Km/Hours)	STA 0+503.425
N	9344405.966	TYPE RIGHT	LEFT	TYPE	N 9344087.971
E	610303.899	△ 18-35-49.2	9-03-57.6	△	E 610680.483
		R (m) 200	800	R (m)	
		A (m) 118.322		A (m)	
		TS / TC (m) 32.746 84.119	47.569	TS / TC (m)	
		LC (m) 84.916	94.939	LC (m)	
		LS (m) 70		LS (m)	
		L (m) 134.916	94.939	L (m)	
		e max (%) 5.5	3.1	e max (%)	
		PI		PI	
		STA 0+180.285	0+428.657	STA	
		N 9344335.394	9344138.715	N	
		E 610469.798	610625.303	E	
		TS/SS		TS/SS	
		STA		STA	
		N		N	
		E		E	
		SC/TC		SC/TC	
		STA 0+127.133	0+381.089	STA	
		N 9344356.200	9344176.030	N	
		E 610420.887	610595.800	E	
		CS/CT		CS/CT	
		STA 0+192.049	0+476.028	STA	
		N 9344321.624	9344106.516	N	
		E 610475.491	610660.317	E	
		ST/SS		ST/SS	
		STA 0+262.049		STA	
		N 9344289.408		N	
		E 610521.970		E	
113-02-39.8	AZIMUTH	141-40-05.3	132-36-07.7	AZIMUTH	132-36-07.7

	GPS 01-1A	GPS 01-1	GPS 01-4A	GPS 01-4	GPS 01-2	GPS 01-2A	GPS 01-3	GPS 01-3A
N	9344887.288	9344862.107	9344434.785	9344427.175	9344167.996	9344137.112	9343417.648	9343427.598
E	610179.422	610155.868	610351.565	610304.941	610648.744	610683.734	610830.474	610859.162
Z	1.682	2.055	2.783	2.326	3.730	3.697	3.952	3.598



CONTROL POINTS	COORDINATE		CONTROL POINTS	COORDINATE		CONTROL POINTS	COORDINATE		CONTROL POINTS	COORDINATE	
	NORTHING	EASTING		NORTHING	EASTING		NORTHING	EASTING		NORTHING	EASTING
1	9344391.158	610530.971	23	9344084.483	610664.701	45	9344273.626	610591.507	67	9344336.236	610564.973
2	9344382.285	610539.425	24	9344100.495	610648.062	46	9344298.785	610577.566	68	9344271.541	610603.043
3	9344361.316	610555.734	25	9344125.985	610622.749	47	9344312.437	610569.718	69	9344269.872	610600.558
4	9344355.052	610559.844	26	9344139.922	610609.432	48	9344326.850	610561.128	70	9344271.719	610598.932
5	9344351.591	610563.909	27	9344144.558	610605.170	49	9344366.790	610528.781	71	9344276.049	610595.880
6	9344343.683	610568.713	28	9344152.541	610597.200	50	9344373.546	610521.936	72	9344281.725	610582.735
7	9344340.031	610569.121	29	9344173.355	610580.245	51	9344377.958	610517.655	73	9344301.648	610582.268
8	9344257.923	610617.437	30	9344175.410	610573.366	52	9344381.830	610521.561	74	9344308.414	610578.518
9	9344229.160	610627.263	31	9344214.852	610551.606	53	9344377.334	610525.924	75	9344329.864	610565.734
10	9344218.490	610628.801	32	9344222.695	610553.805	54	9344370.826	610532.518	76	9344335.982	610564.042
11	9344215.628	610628.305	33	9344211.841	610564.263	55	9344354.682	610549.958	77	9344229.454	610621.674
12	9344208.383	610627.498	34	9344200.945	610574.666	56	9344356.590	610552.242	78	9344216.977	610622.316
13	9344203.158	610627.295	35	9344181.762	610589.550	57	9344378.570	610535.368	79	9344212.277	610622.138
14	9344189.608	610628.334	36	9344181.705	610596.575	58	9344387.286	610527.065	80	9344212.125	610621.099
15	9344185.481	610629.131	37	9344190.042	610601.373	59	9344346.803	610555.449	81	9344214.812	610618.376
16	9344163.014	610633.474	38	9344204.979	610607.017	60	9344346.011	610558.123	82	9344215.711	610618.096
17	9344152.656	610638.193	39	9344207.893	610607.945	61	9344345.587	610558.731	83	9344229.357	610619.685
18	9344148.238	610642.906	40	9344223.948	610607.658	62	9344344.057	610559.732	84	9344197.567	610621.581
19	9344142.675	610643.767	41	9344229.665	610605.246	63	9344342.691	610559.465	85	9344196.918	610621.874
20	9344133.240	610650.092	42	9344232.628	610612.290	64	9344342.262	610558.849	86	9344188.565	610622.933
21	9344123.003	610661.225	43	9344233.149	610614.171	65	9344342.902	610557.464	87	9344185.515	610623.523
22	9344101.959	610682.630	44	9344260.473	610601.665	66	9344346.032	610554.879	88	9344184.392	610622.160





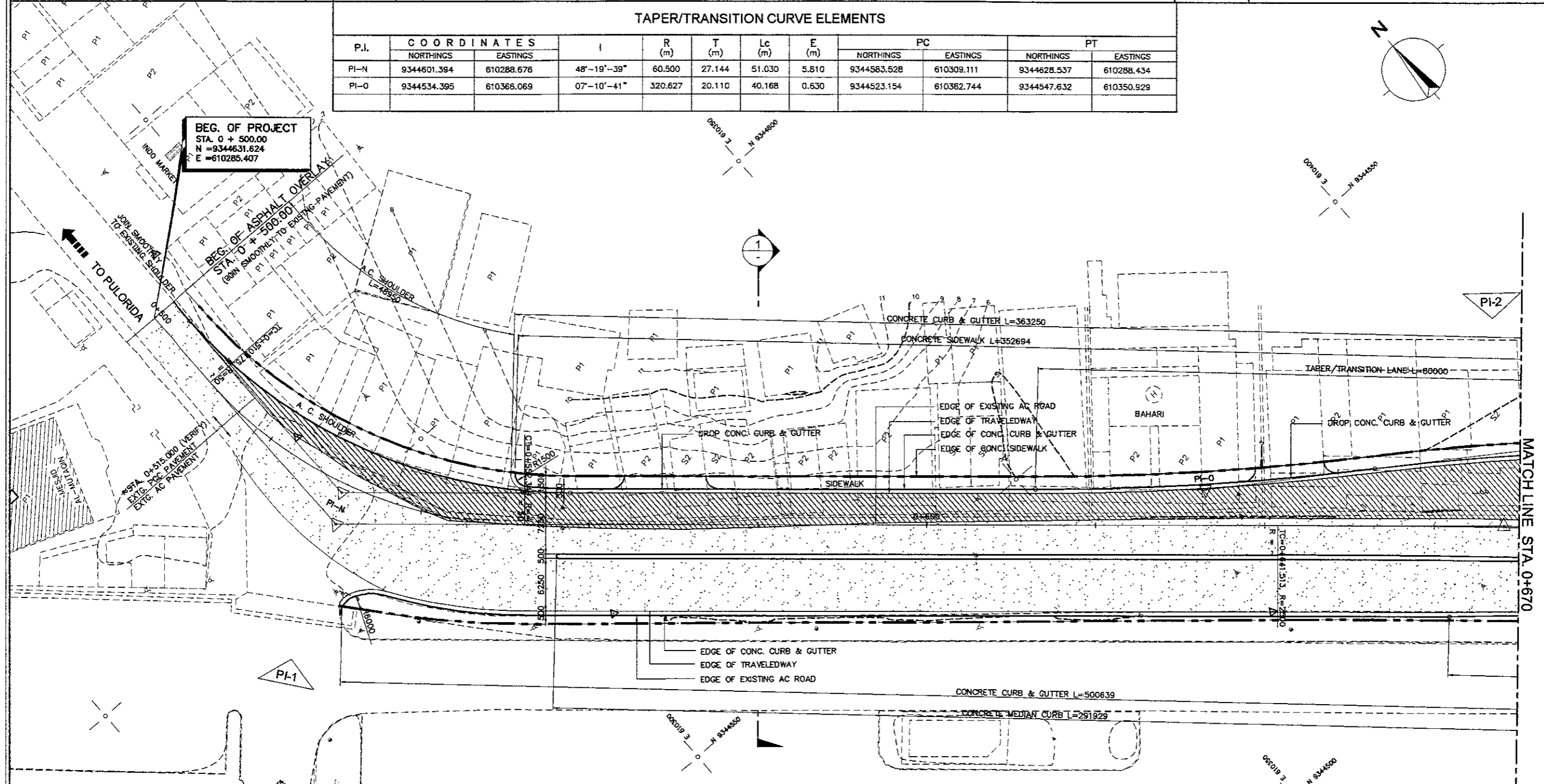
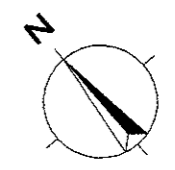
- NOTES:
- FOR GENERAL NOTES, REFER TO DWG MGE-010
  - ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
  - ALL COORDINATES SHALL BE VERIFIED DURING CONSTRUCTION.
  - OFFSET TO SET OUT CONTROL POINTS ARE MEASURED PERPENDICULAR TO THE DESIGN LINE.
  - ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED DURING CONSTRUCTION.

CURVE ELEMENTS							
P.I.	I	R (m)	T (m)	Lc (m)	E (m)	COORDINATES	
						NORTHINGS	EASTINGS
PI-A	09°-12'-24"	165.500	13.326	26.594	0.536	9344372.457	610548.424
PI-B	16°-24'-56"	180.00	25.964	51.571	1.863	9344349.153	610547.835
PI-C	17°-22'-43"	55.000	8.406	16.682	0.639	9344266.273	610595.581
PI-D	43°-33'-12"	40.500	16.180	30.783	3.112	9344249.309	610613.376
PI-E	23°-13'-33"	75.500	15.516	30.605	1.578	9344244.552	610625.306
PI-F	49°-36'-20"	29.500	13.633	25.540	2.998	9344217.731	610611.836
PI-G	13°-06'-51"	59.500	6.839	13.619	0.392	9344196.323	610627.036
PI-H	36°-27'-32"	61.000	20.090	38.816	3.223	9344142.055	610630.904
PI-I	02°-35'-50"	509.500	11.550	23.095	0.131	9344092.301	610656.200
PI-J	02°-12'-25"	500.500	9.640	19.278	0.093	9344132.825	610615.956
PI-K	05°-06'-12"	301.500	13.436	26.854	0.299	9344162.570	610588.259
PI-L	11°-43'-44"	73.724	7.572	15.092	0.388	9344206.927	610570.024
PI-M	11°-12'-30"	77.169	7.572	15.096	0.371	9344216.756	610558.501

1 GEOMETRIC LAYOUT PLAN AT INTERSECTION  
 SCALE 1:500

NOTE: FOR CURVE ELEMENTS AT CENTERLINE OF FLYOVER, REFER TO DWG. MRD-021 TO 022

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-N	9344501.394	610288.676	48°-19'-39"	60.500	27.144	51.030	5.810	9344583.528	610309.111	9344628.537	610288.434
PI-O	9344534.395	610366.069	07°-10'-41"	320.627	20.110	40.168	0.630	9344523.154	610382.744	9344547.632	610350.929



**BEG. OF PROJECT**  
 STA. 0 + 500.00  
 N = 9344631.624  
 E = 610285.407

**BEG. OF ASPHALT OVERLAY**  
 STA. 0 + 500.00  
 (JOIN SMOOTHLY TO EXISTING PAVEMENT)

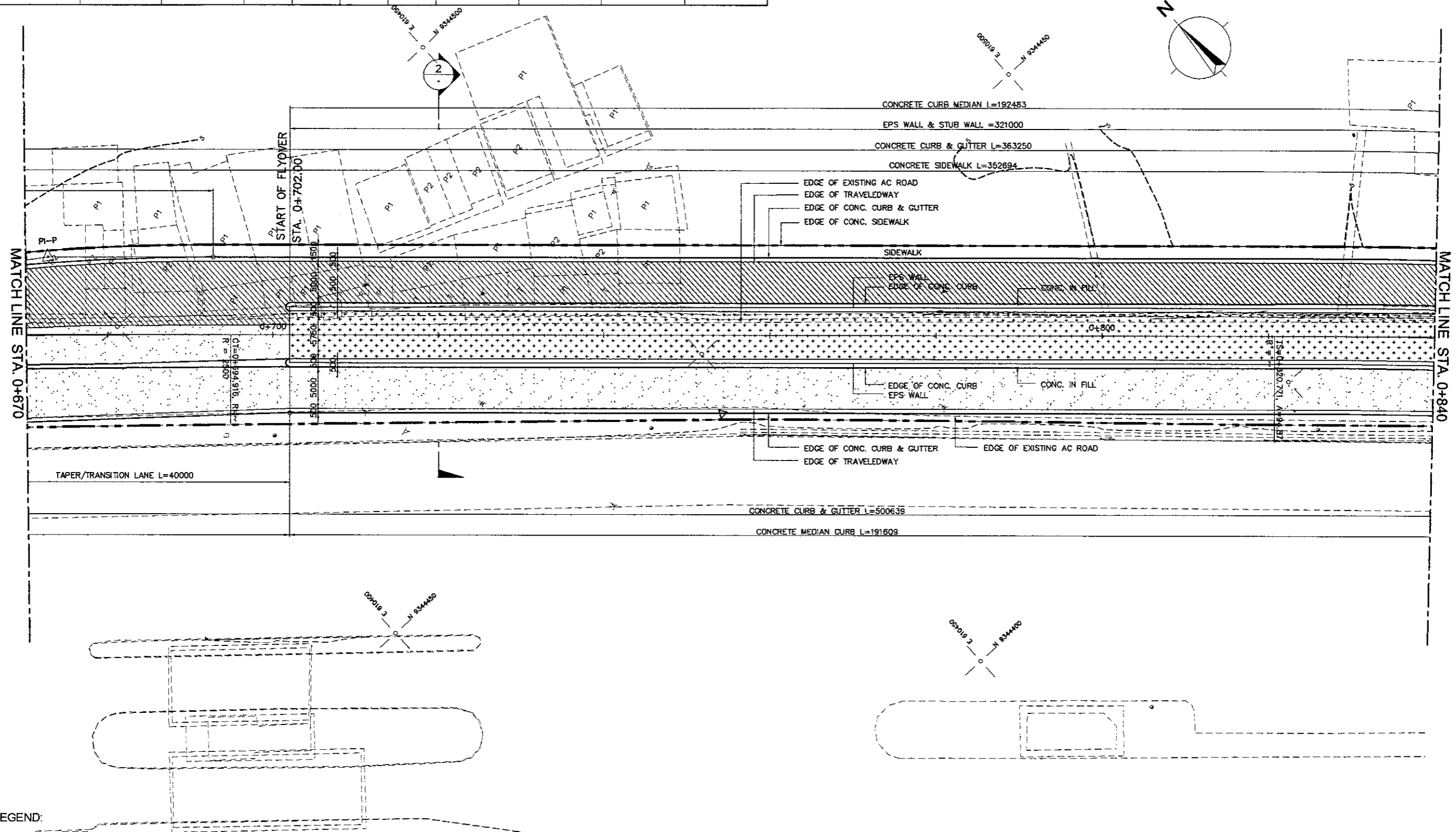
- LEGEND:**
- PAVEMENT OVERLAY
  - PAVEMENT WIDENING - NEW PAVEMENT
  - PAVEMENT AT APPROACH RAMP

**1** DETAILED CONSTRUCTION LAYOUT PLAN  
 SCALE 1:500

- NOTES:**
1. FOR GENERAL NOTES, REFER TO DWG. MGE-010
  2. ALL WORKS SHALL JOIN SMOOTHLY WITH EXISTING FORMATION.
  3. ALL DIMENSIONS AND MEASUREMENTS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
  4. FOR CURB AND GUTTER DETAILS, REFER TO DWG. MRD-077
  5. FOR DRAINAGE LAYOUT, REFER TO DWGS. MDG-002 TO MDG-005
  6. FOR STANDARD ASPHALT PAVEMENT DETAILS, REFER TO DWG. MRD-074
  7. MOUNTABLE (DROP) CONC. CURB AND MOUNTABLE (DROP) COMBINATION CONC. CURB & GUTTER SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER AT ALL DRIVEWAYS AND ENTRANCES AFFECTED BY WIDENING AND/OR AT-GRADE IMPROVEMENT OR AS SPECIFIED IN THIS DRAWING.
  8. FOR CURVE ELEMENTS OF FLYOVER CENTERLINE ALIGNMENT, REFER TO DWG. MRD-021 TO 022
  9. ALL HORIZONTAL AND VERTICAL GEOMETRY AT CONNECTIONS/TIE-INS SHALL BE VERIFIED ON SITE BEFORE CONSTRUCTION.
  10. FOR GEOMETRIC LAYOUT AT INTERSECTION, REFER TO DWG. MRD-023 TO 024

TAPER/TRANSITION CURVE ELEMENTS

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-P	9344511.915	610359.417	08°-23'-40"	273.998	20.108	40.144	0.737	9344498.361	610414.271	9344523.154	610382.744

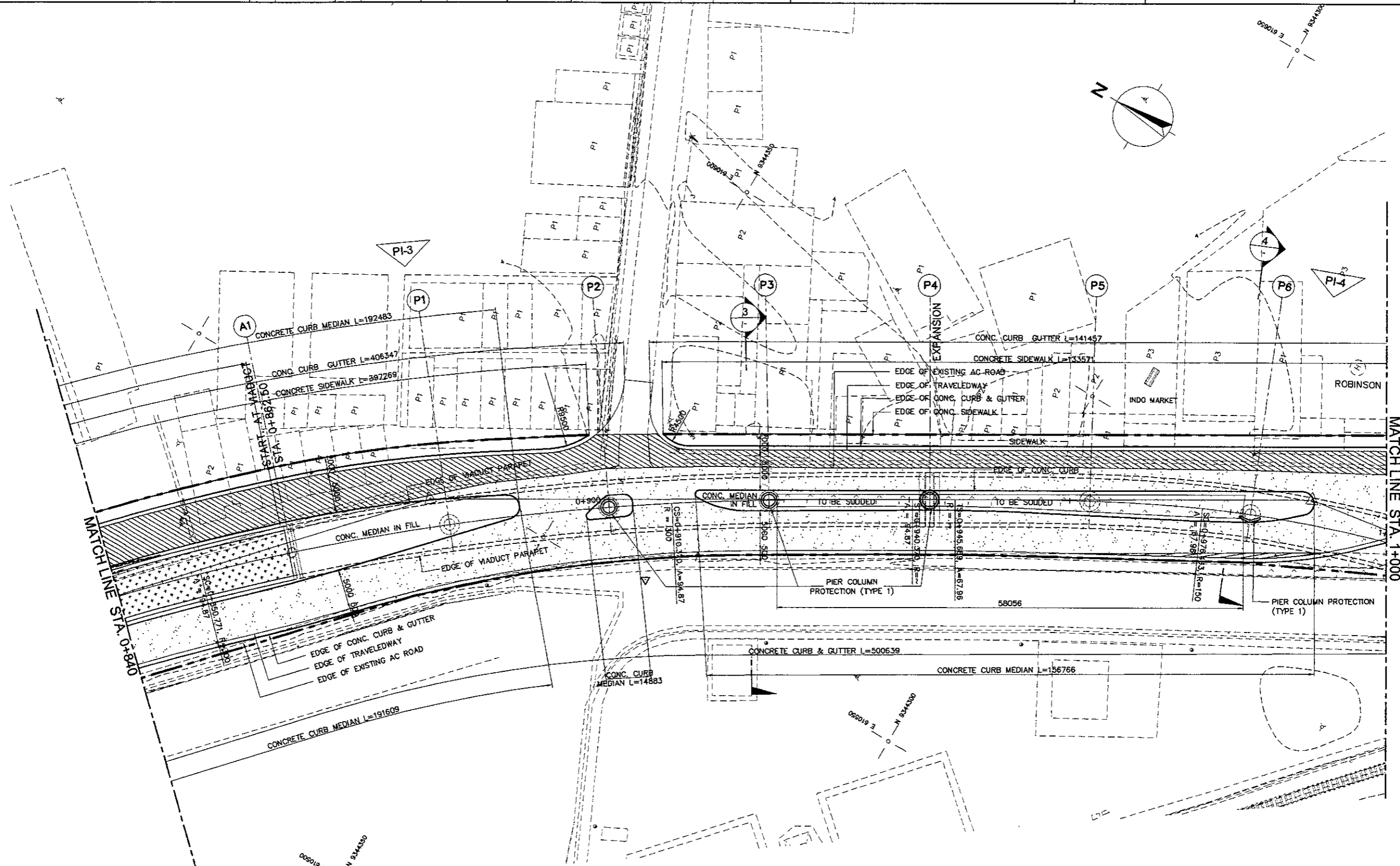


- LEGEND:
- PAVEMENT OVERLAY
  - PAVEMENT WIDENING -NEW PAVEMENT
  - PAVEMENT AT APPROACH RAMP

**1** DETAILED CONSTRUCTION LAYOUT PLAN  
 SCALE 1:500

NOTE:  
 1. FOR SPECIFIC NOTES, REFER TO DWG. MRD-025

DESIGNED BY		CHECKED BY		SUBMITTED BY	
Name	R. UENO	Name	T. OKUMURA	Name	M. KIUCHI
Sign		Sign		Sign	
Date		Date		Date	



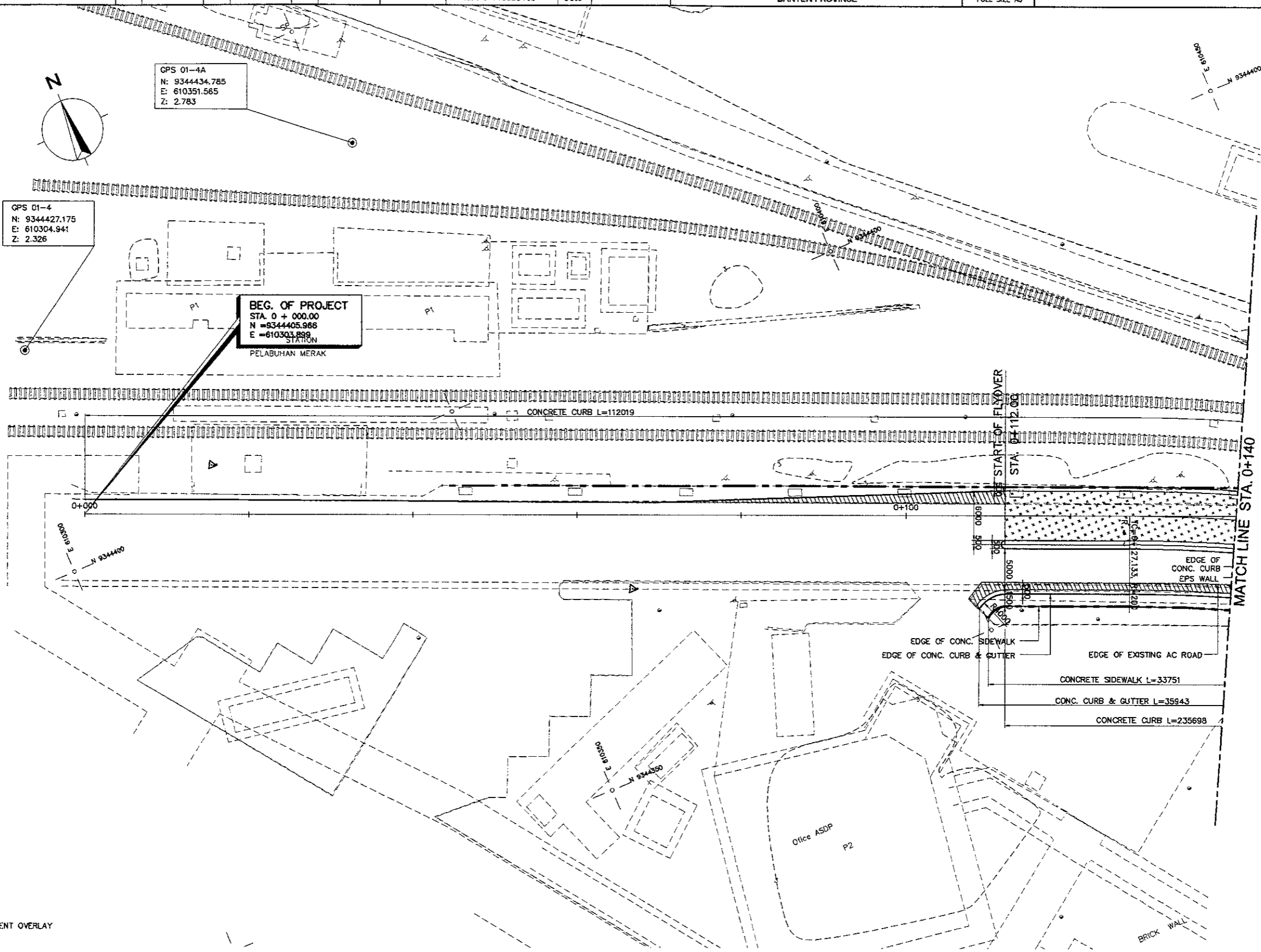
- LEGEND:
- PAVEMENT OVERLAY
  - PAVEMENT WIDENING - NEW PAVEMENT
  - PAVEMENT AT APPROACH RAMP

1 DETAILED CONSTRUCTION LAYOUT PLAN  
 SCALE 1:500

NOTE:  
 1. FOR SPECIFIC NOTES, REFER TO DWG. MRD-025



DESIGNED BY	CHECKED BY	SUBMITTED BY
Name R. UENO	Name T. OKUMURA	Name M. KIUCHI
Sign	Sign	Sign
Date	Date	Date



- LEGEND:
- PAVEMENT OVERLAY
  - PAVEMENT WIDENING -NEW PAVEMENT
  - PAVEMENT AT APPROACH RAMP

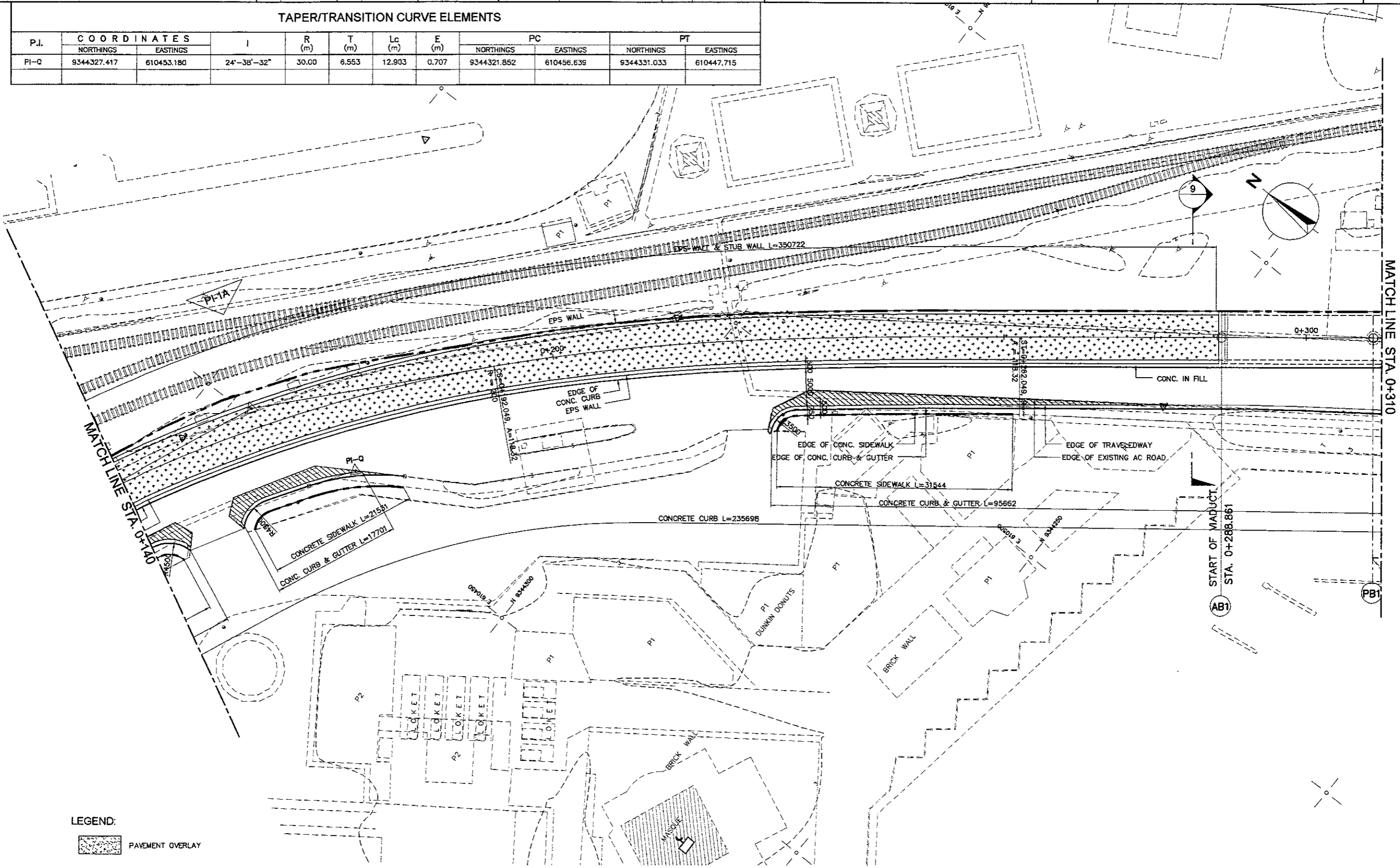
1 DETAILED CONSTRUCTION LAYOUT PLAN  
 SCALE 1:500

NOTE:  
 1. FOR SPECIFIC NOTES, REFER TO DWG. MRD-025

DESIGNED BY	CHECKED BY	SUBMITTED BY
Name: R. UENO	Name: T. OKUMURA	Name: M. KIUCHI
Sign:	Sign:	Sign:
Date:	Date:	Date:

**TAPER/TRANSITION CURVE ELEMENTS**

P.I.	COORDINATES		I	R (m)	T (m)	Lc (m)	E (m)	PC		PT	
	NORTHINGS	EASTINGS						NORTHINGS	EASTINGS	NORTHINGS	EASTINGS
PI-0	9344327.417	610453.180	24'-38"-32"	30.00	6.553	12.903	0.707	9344321.852	610456.639	9344331.033	610447.715



- LEGEND:**
- PAVEMENT OVERLAY
  - PAVEMENT WIDENING -NEW PAVEMENT
  - PAVEMENT AT APPROACH RAMP

**1 DETAILED CONSTRUCTION LAYOUT PLAN**  
 SCALE 1:500

**NOTE:**  
 1. FOR SPECIFIC NOTES, REFER TO DWG. MRD-025