

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

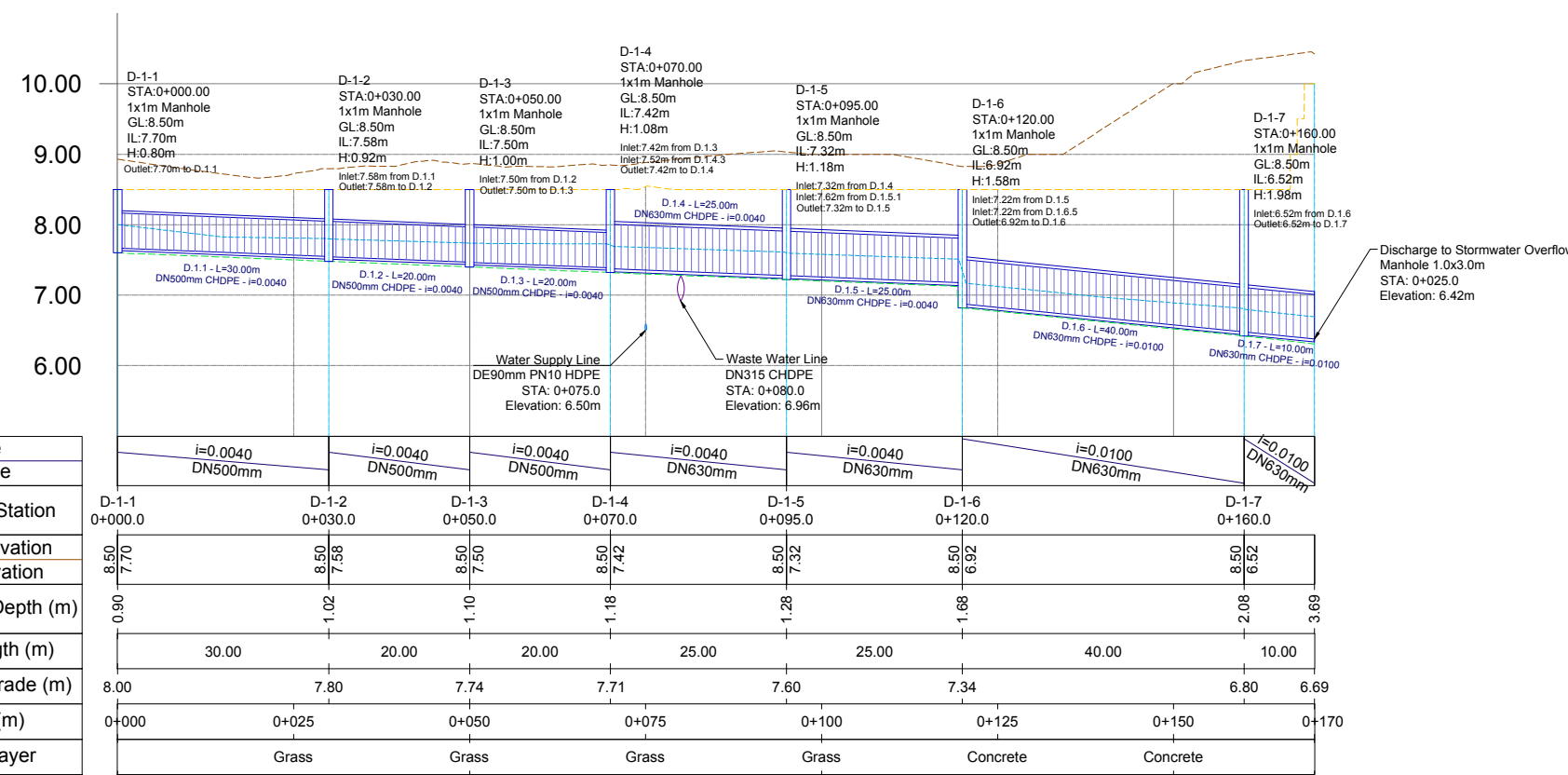
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Rr. "Sami Frasheri", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albandf.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100

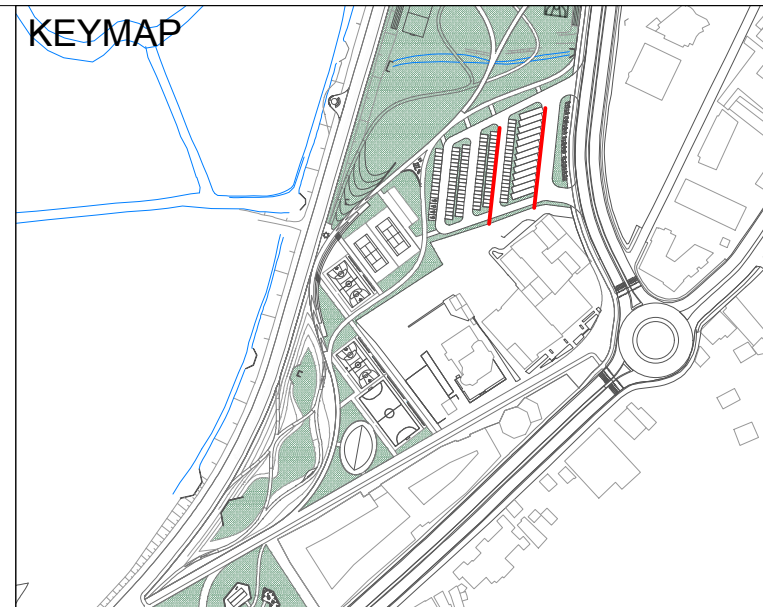
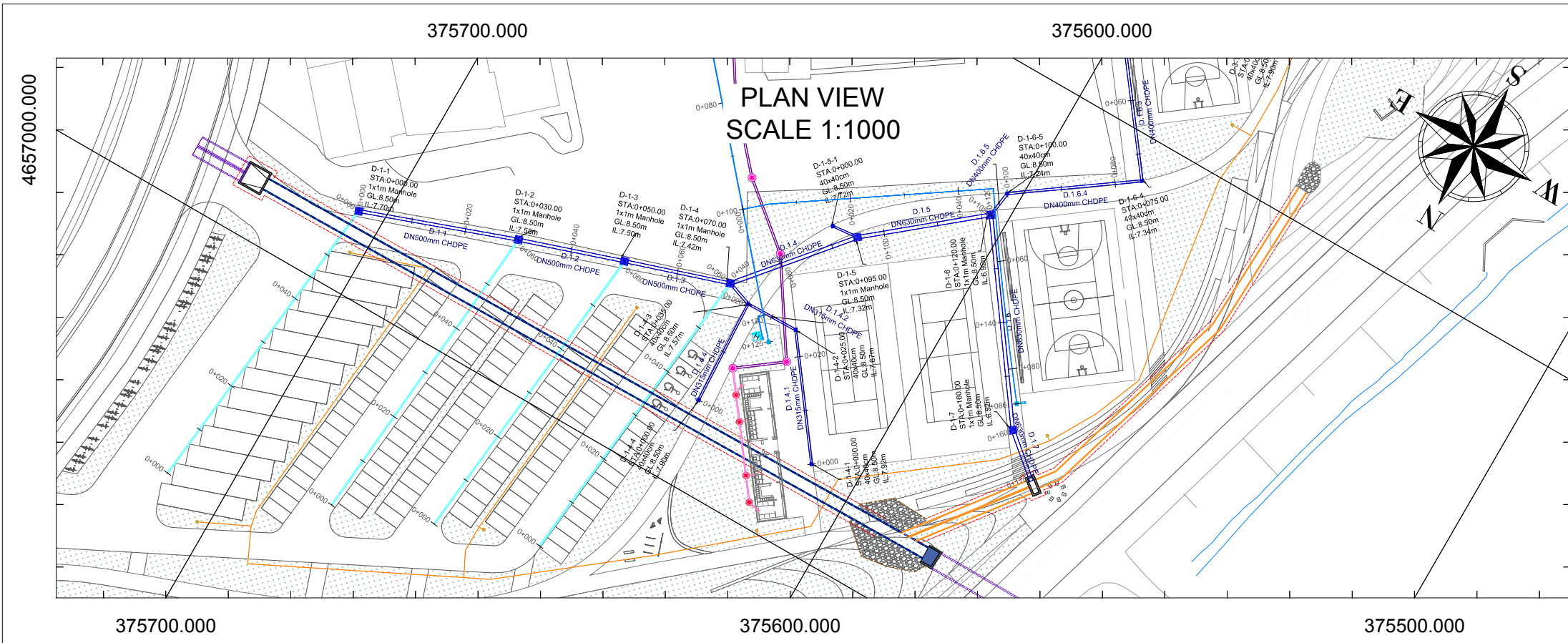


Slope Pipeline
$i=0.0040$ DN500mm
$i=0.0040$ DN500mm
$i=0.0040$ DN500mm
$i=0.0040$ DN630mm
$i=0.0040$ DN630mm
$i=0.0100$ DN630mm
$i=0.0100$ DN630mm

VOLUMES TABLE											
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm CHDPE Pipe	DN500mm CHDPE Pipe	DN630mm CHDPE Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0 W	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	pcs	m ²
	VOLUME	356.30	96.94	100.30	189.05	5.00	70.00	100.00	1.00	7.00	202.00

DD-H-SW-LP-D-1 Stormwater Line D-1 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
	casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.		

Lombardkade 24A
3011 AH Rotterdam
T +31 (0)10 240 9333
F +31 (0)10 240 9229
contact@casanova-hernandez.com



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

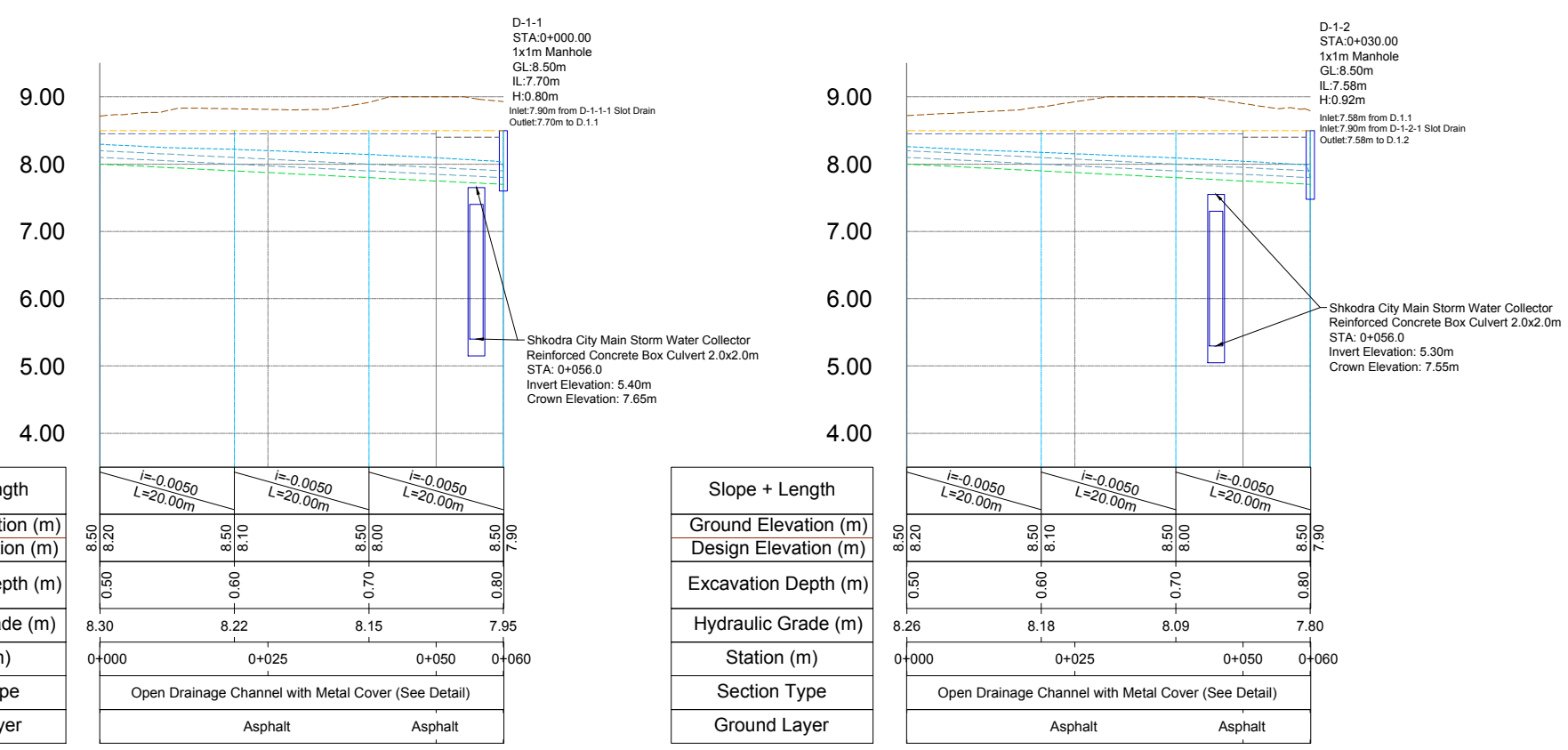
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasheri", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albandanf.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100

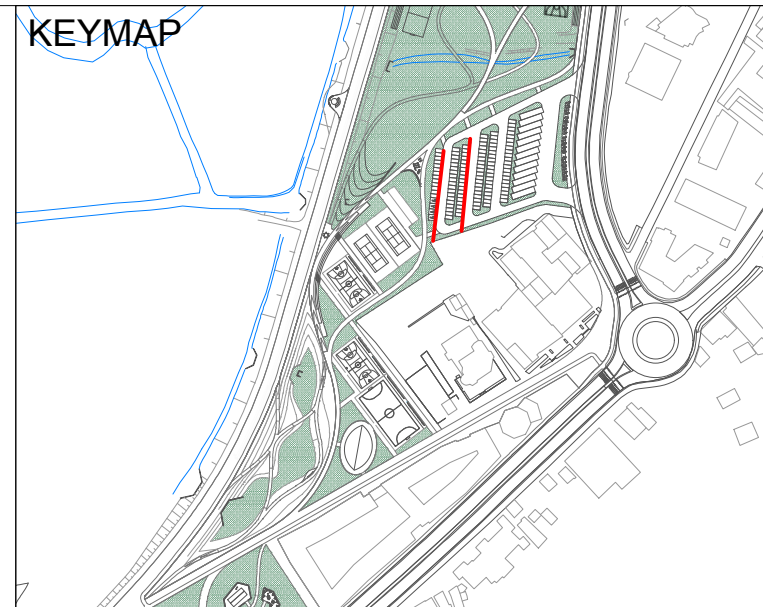
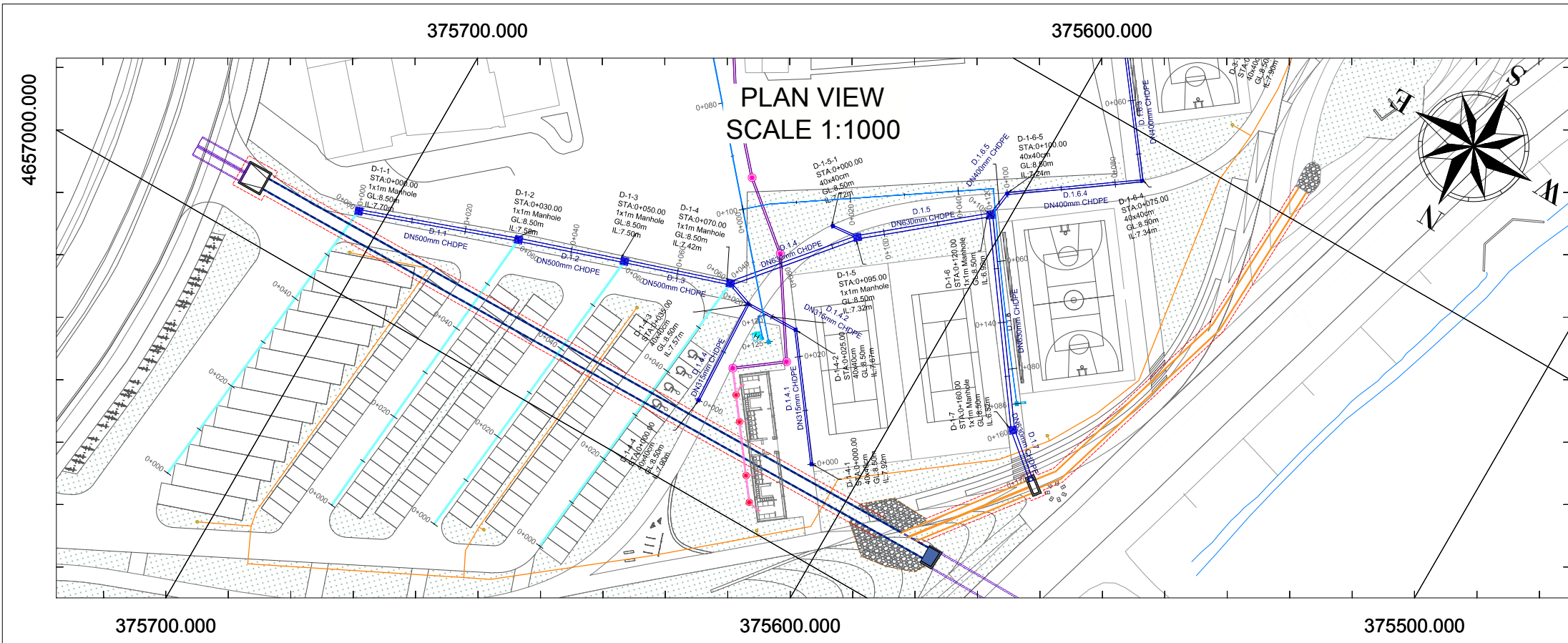


Slope + Length	
Ground Elevation (m)	8.50 8.20
Design Elevation (m)	8.50 8.10
Excavation Depth (m)	0.50 0.60
Hydraulic Grade (m)	8.30 8.22
Station (m)	0+000 0+025 0+050 0+060
Section Type	Open Drainage Channel with Metal Cover (See Detail)
Ground Layer	Asphalt

Slope + Length	
Ground Elevation (m)	8.50 8.20
Design Elevation (m)	8.50 8.10
Excavation Depth (m)	0.50 0.60
Hydraulic Grade (m)	8.26 8.18
Station (m)	0+000 0+025 0+050 0+060
Section Type	Open Drainage Channel with Metal Cover (See Detail)
Ground Layer	Asphalt

VOLUMES TABLE					
AREA	CIVIL WORKS	Excavation	Transport	Gravel Fill	Drainage Channel
L0 W	UNIT	m ³	m ³	m ³	ml
	VOLUME	46.80	40.80	6.00	120.00

DD-H-SW-LP-D-1-1-2 Stormwater Lines D-1-1/2 Longitudinal Profiles			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	3011 AH Rotterdam		
SRP Schneider & Partner, Ingenieur-Consult GmbH	T +31 (0)10 240 9333		
SRP Albanian Engineering sh.p.k.	F +31 (0)10 240 9229		
	contact@casanova-hernandez.com		



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

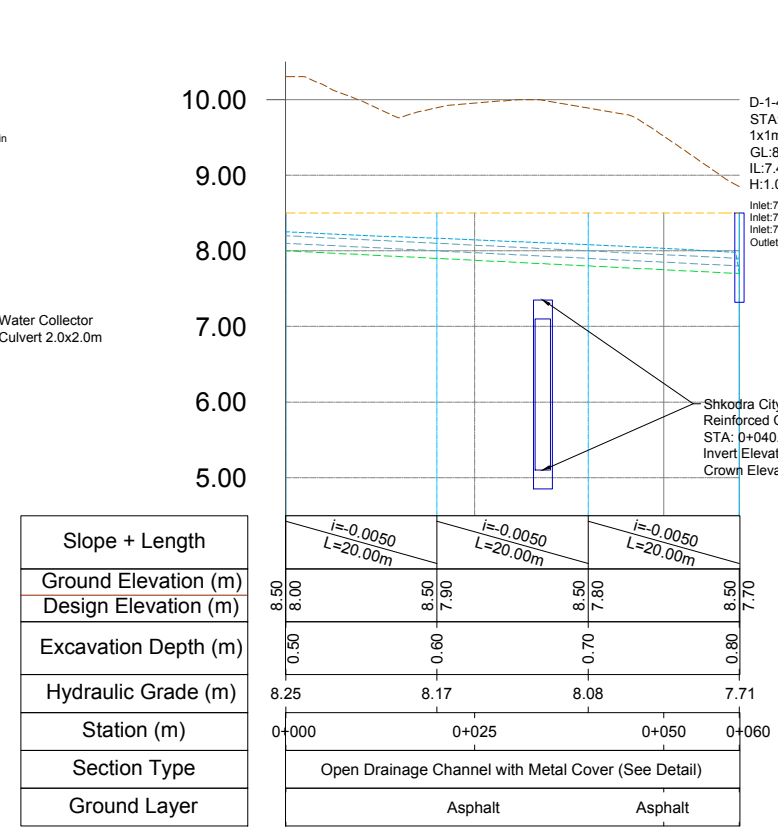
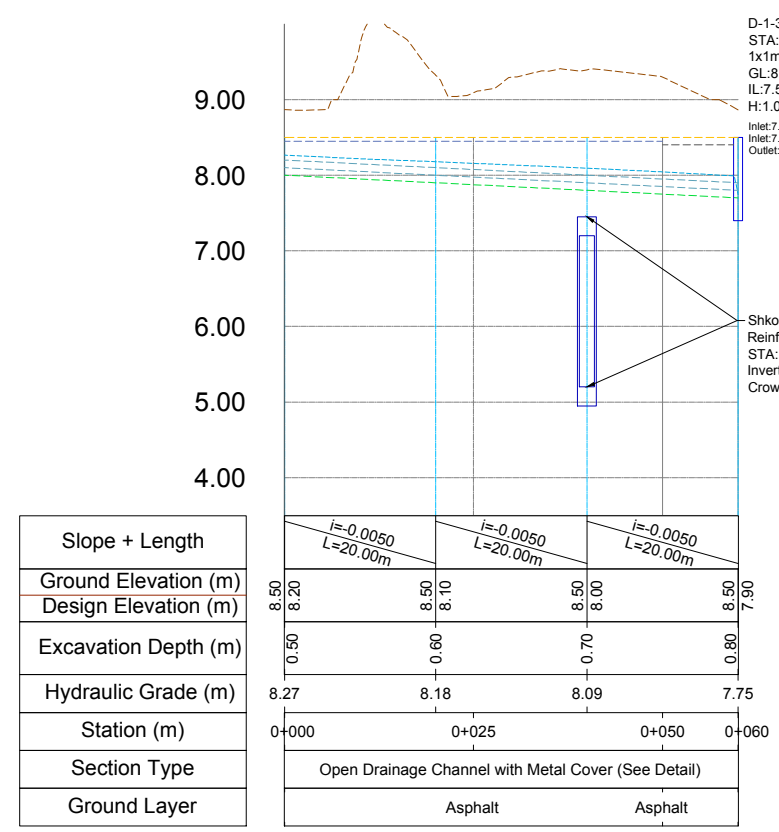
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albandanf.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tomi Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 46 272 528
Mobile: +355 65 2020 335
E-mail: blerim.kurti@srp-consult.de

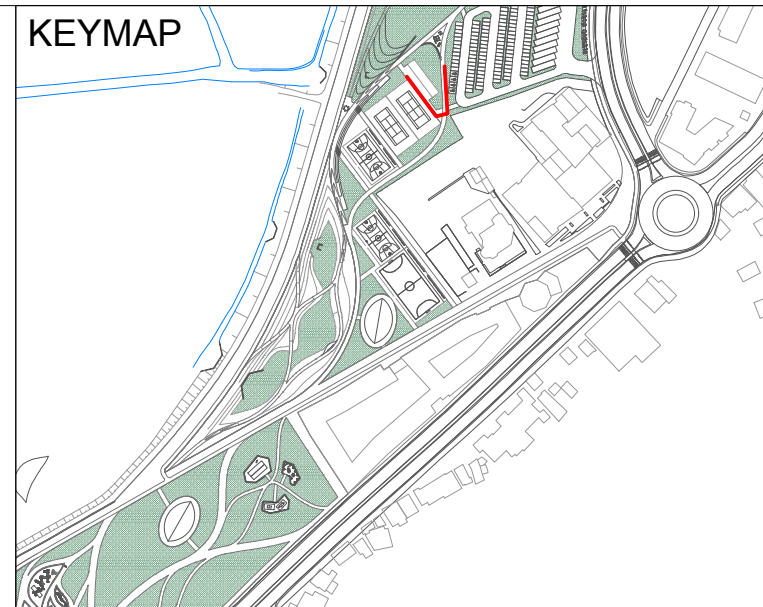
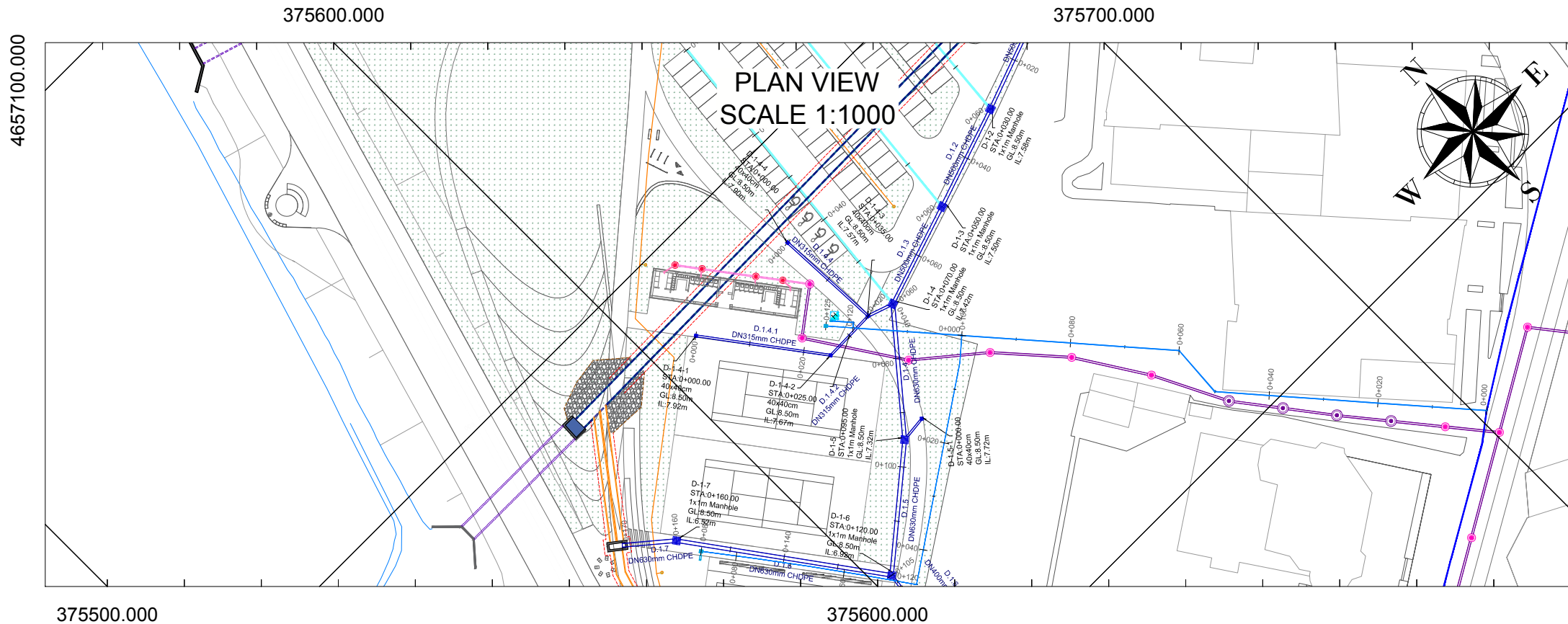
SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE					
AREA	CIVIL WORKS	Excavation	Transport	Gravel Fill	Drainage Channel
L0 W	UNIT	m ³	m ³	m ³	ml
	VOLUME	46.80	40.80	6.00	120.00

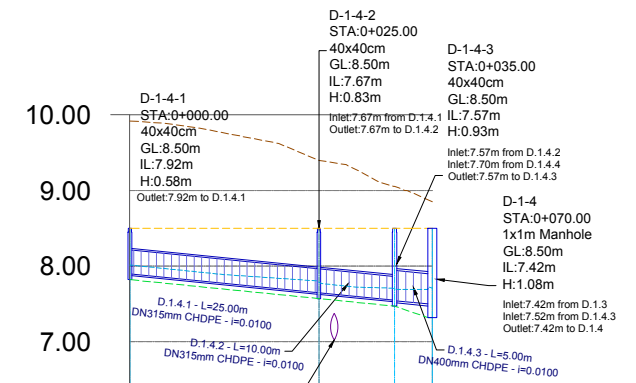
DD-H-SW-LP-D-1-3-4 Stormwater Lines D-1-3/4 Longitudinal Profiles			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	Lombardkade 24A 3011 AH Rotterdam		
SRP Schneider & Partner, Ingenieur-Consult GmbH	T +31 (0)10 240 9333		
SRP Albanian Engineering sh.p.k.	F +31 (0)10 240 9229		
	contact@casanova-hernandez.com		



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100



Slope Pipeline				
Manhole + Station	D-1.4-1 0+000.0	D-1.4-2 0+025.0	D-1.4-3 0+035.0	D-1.4 0+070.0
Ground Elevation	8.50	8.50	8.50	8.50
Invert Elevation	7.92	7.87	7.57	7.42
Excavation Depth (m)	0.68	0.93	1.03	1.18
Partial Length (m)	25.00	10.00	5.00	
Hydraulic Grade (m)	8.01	7.79	7.70	7.71
Station (m)	0+000	0+025	0+040	
Ground Layer	Concrete			

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati 17, HS, Apt. 12, Tirana
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

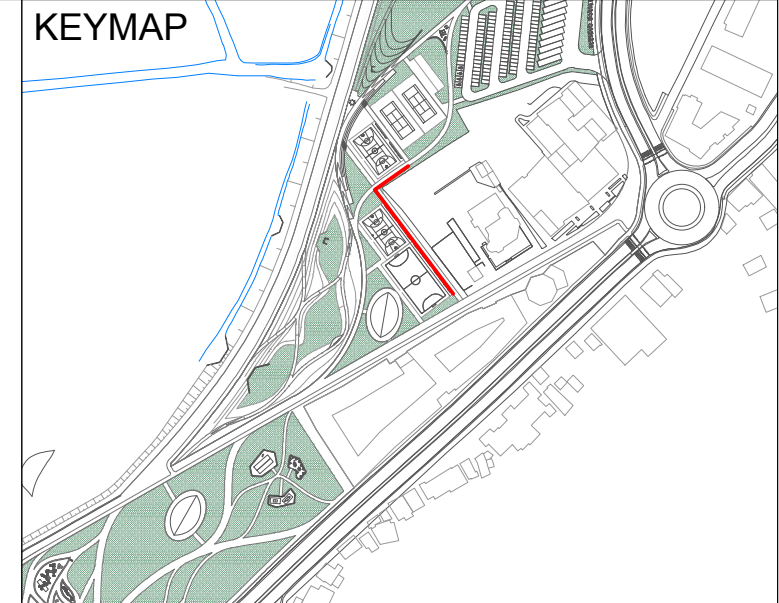
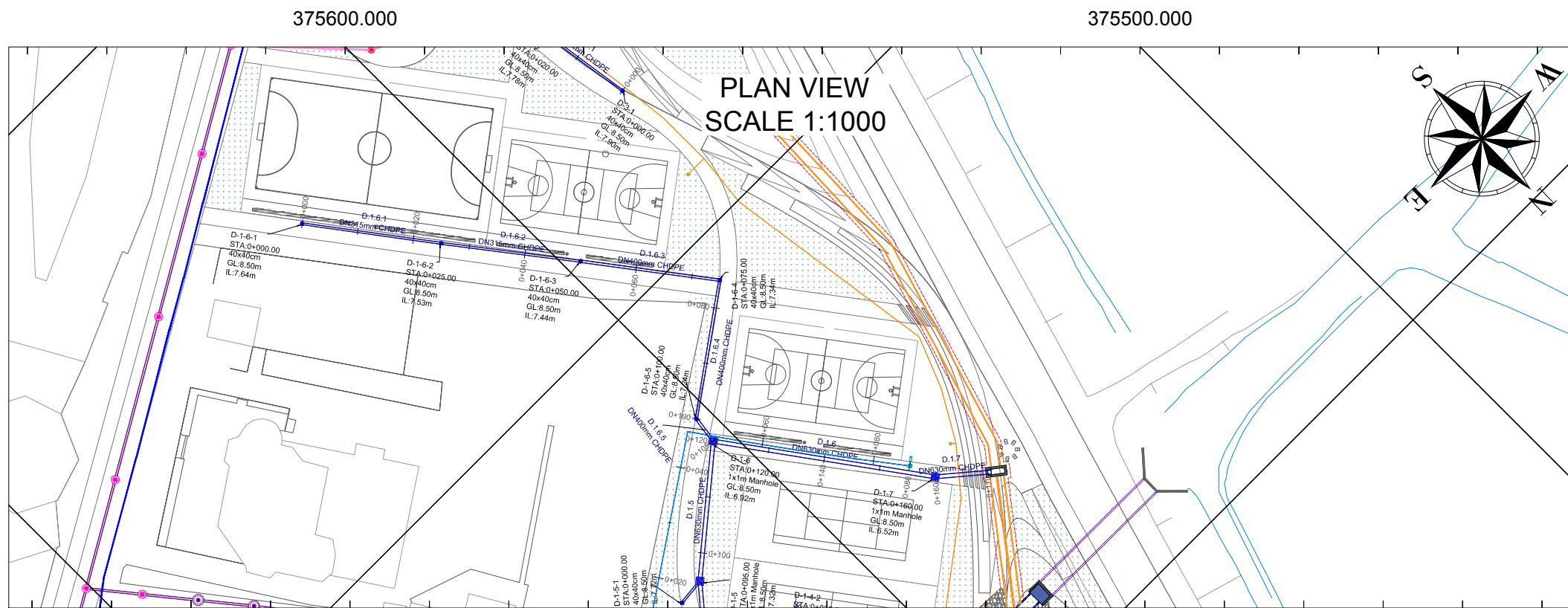
SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

VOLUMES TABLE										
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm CHDPE Pipe	DN400mm CHDPE Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0 W	UNIT	m ³	m ³	m ³	m ³	ml	ml	pcs	pcs	m ²
	VOLUME	50.70	50.70	0.00	16.45	55.00	5.00	4.00	0.00	0.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

DD-H-SW-LP-D-1-4 Stormwater Line D-1-4 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
	casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.		
Lombardkade 24A 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com			



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albaniandf.org

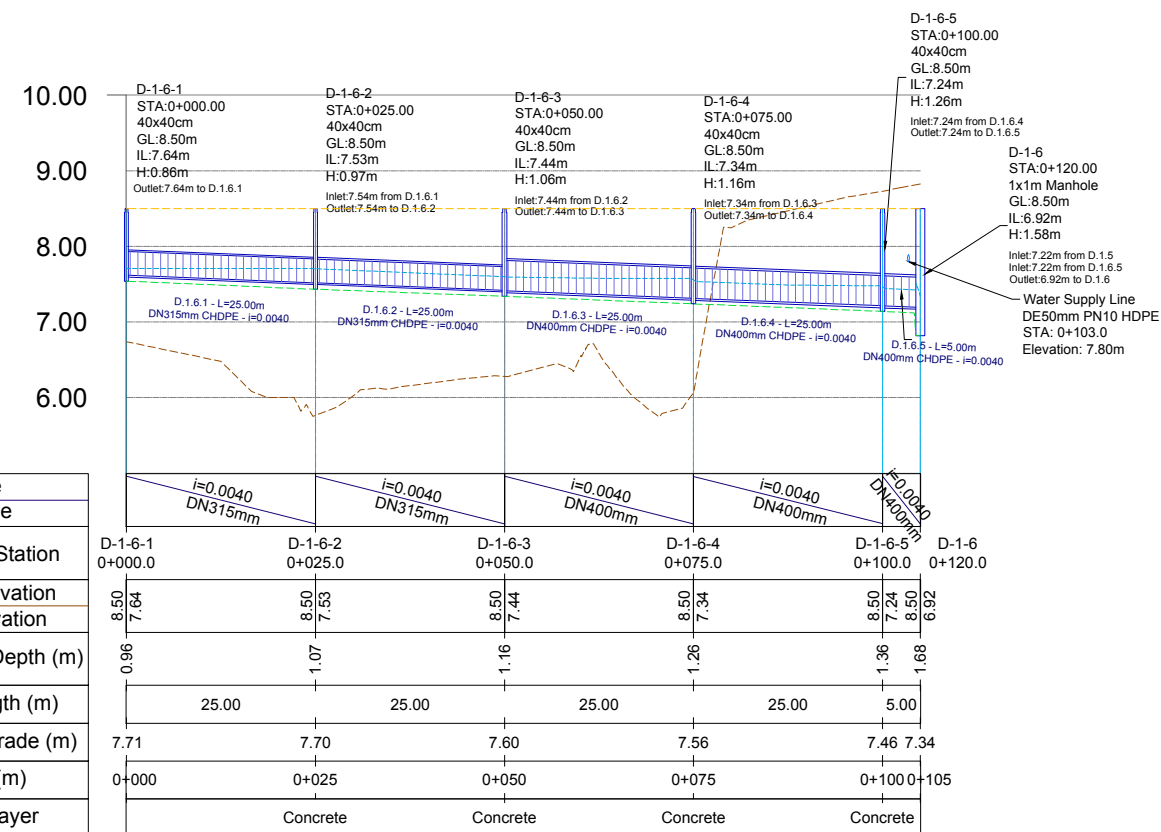
CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-1-6 Stormwater Line D-1-6 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
	casanova+hernandez architects 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com		

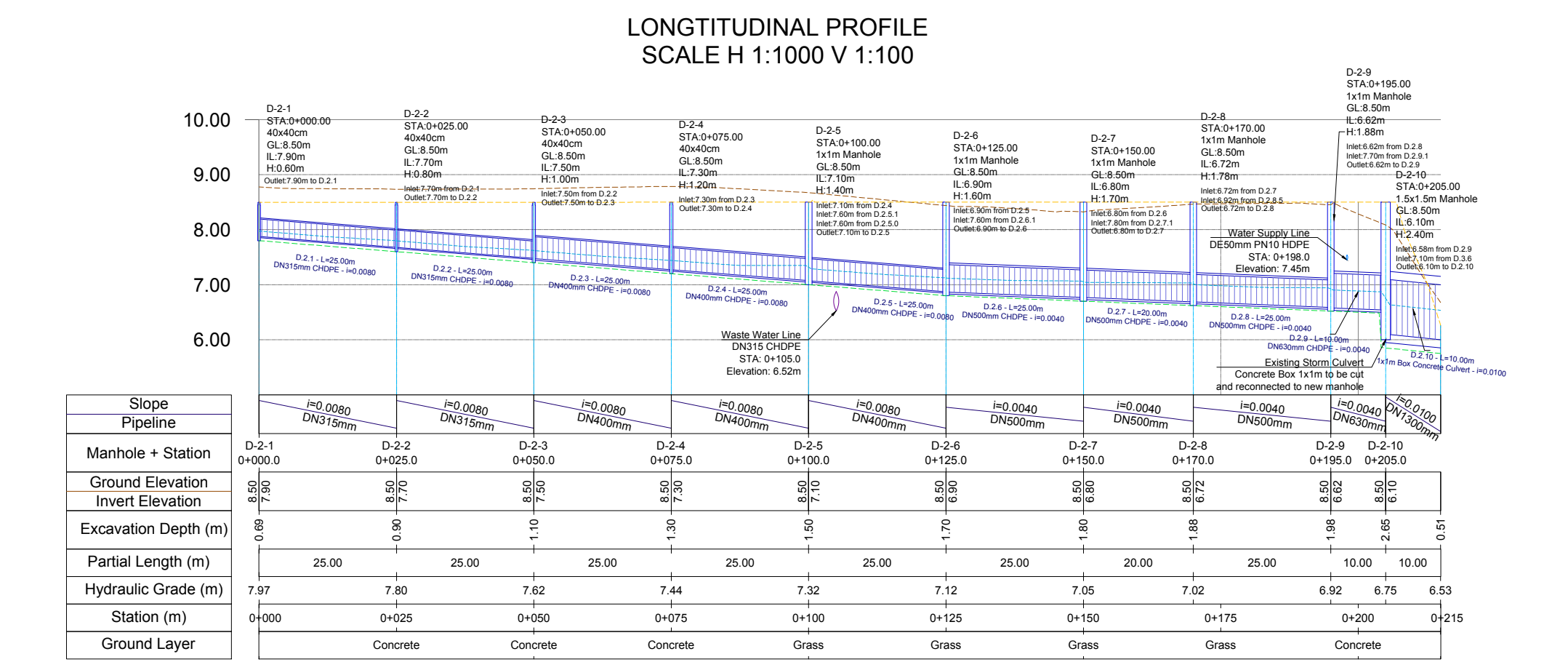
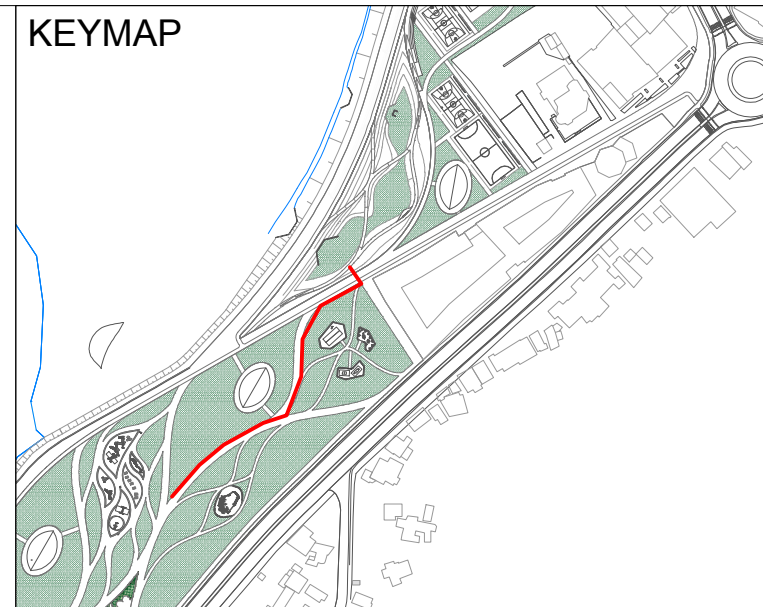
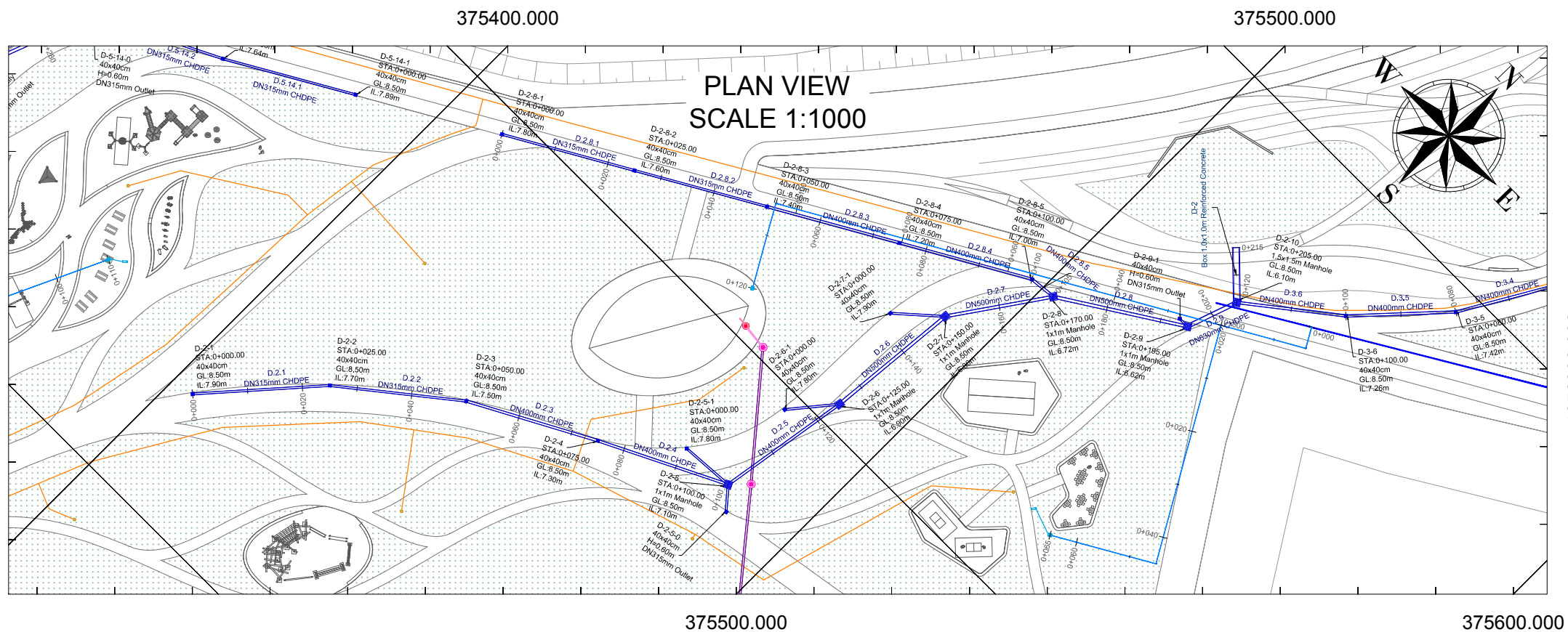
LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm CHDPE Pipe	DN400mm CHDPE Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0 W	UNIT	m ³	m ³	m ³	m ³	ml	ml	pcs	pcs	m ²
	VOLUME	124.20	116.30	5.70	65.56	50.00	55.00	5.00	0.00	0.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NILUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

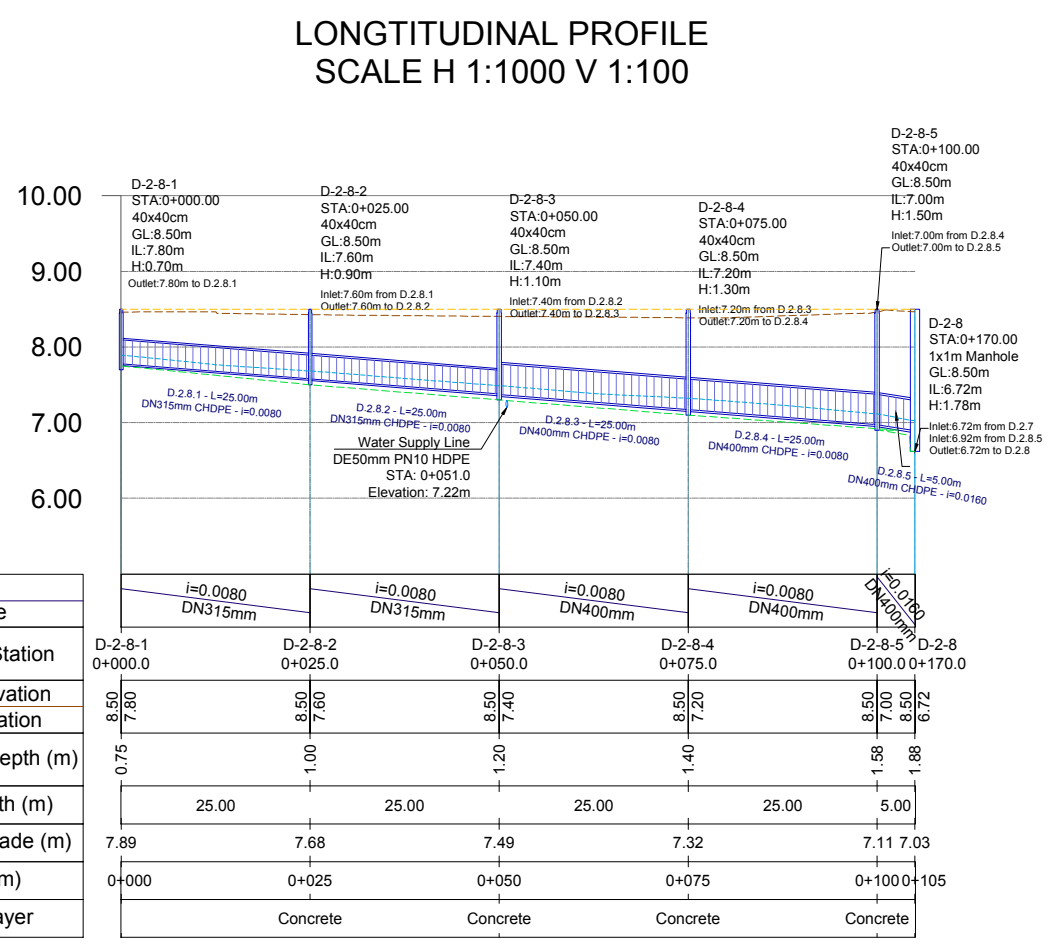
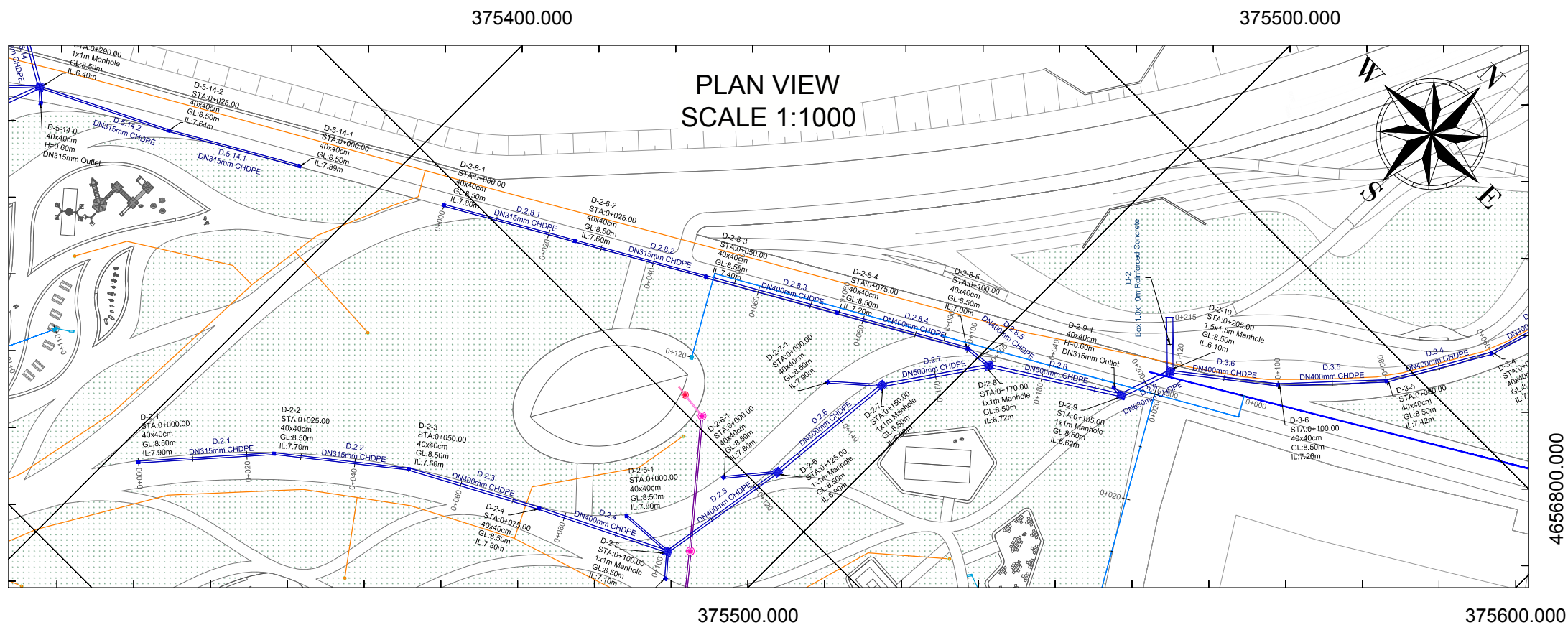
VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm Pipe	DN400mm Pipe	DN500mm Pipe	DN630mm Pipe	1x1m Culvert	40x40cm Manholes	1x1m Manholes	1.5x1.5m Manholes	Sheetpiles
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	ml	ml	pcs	pcs	pcs	m ²
	VOLUME	460.00	345.04	174.73	187.13	87.00	75.00	70.00	10.00	10.00	10.00	5.00	1.00	322.40

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

DD-H-SW-LP-D-2 Stormwater Line D-2 Longitudinal Profile

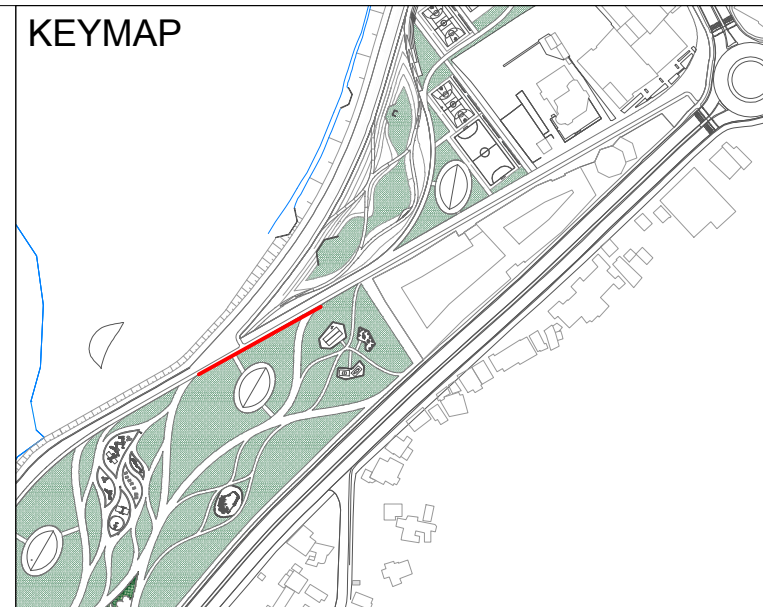
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects		Lombardkade 24A 3011 AH Rotterdam	
SRP Schneider & Partner, Ingenieur-Consult GmbH		T +31 (0)10 240 9333	
SRP Albanian Engineering sh.p.k.		F +31 (0)10 240 9229	
		contact@casanova-hernandez.com	



VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm CHDPE Pipe	DN400mm CHDPE Pipe	40x40cm Manholes	1x1m Manholes	1.5x1.5m Manholes	Sheetpiles
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	pcs	pcs	pcs	m ²
	VOLUME	132.80	111.00	15.40	68.60	50.00	50.00	5.00	0.00	0.00	0.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

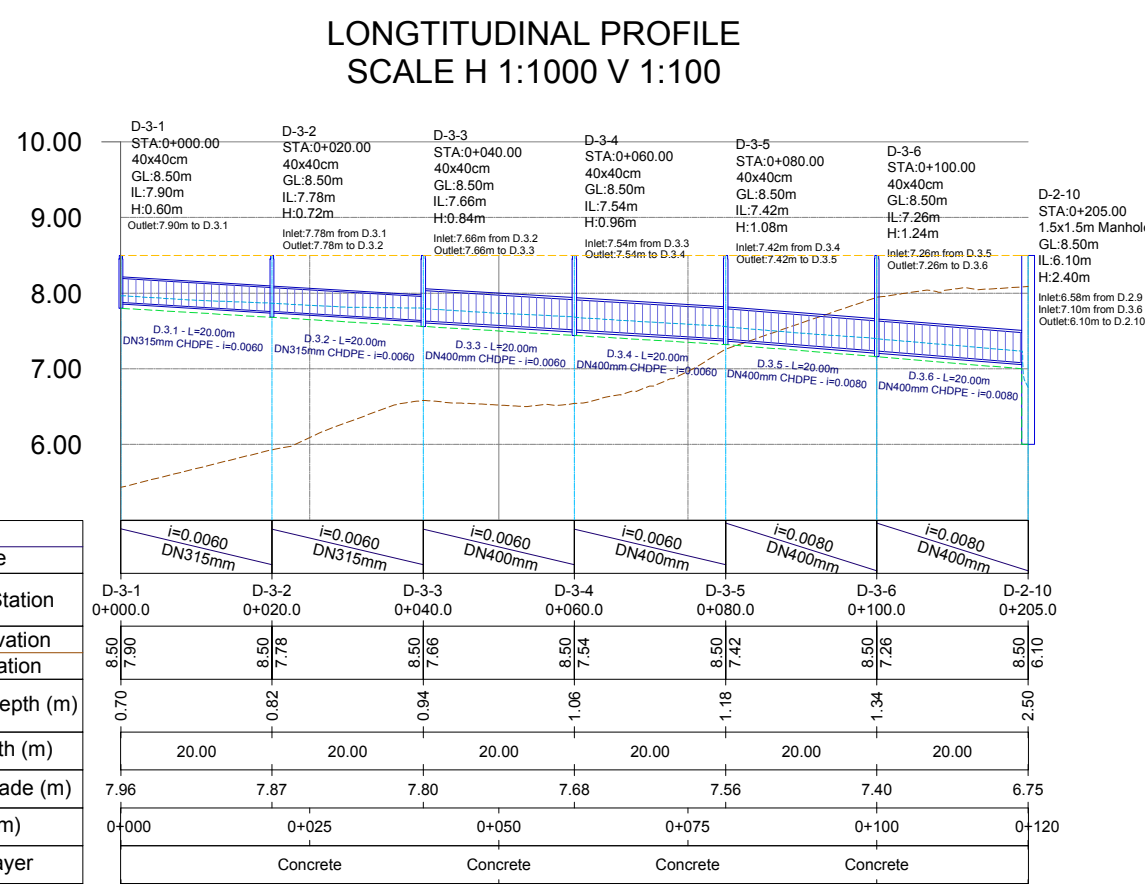
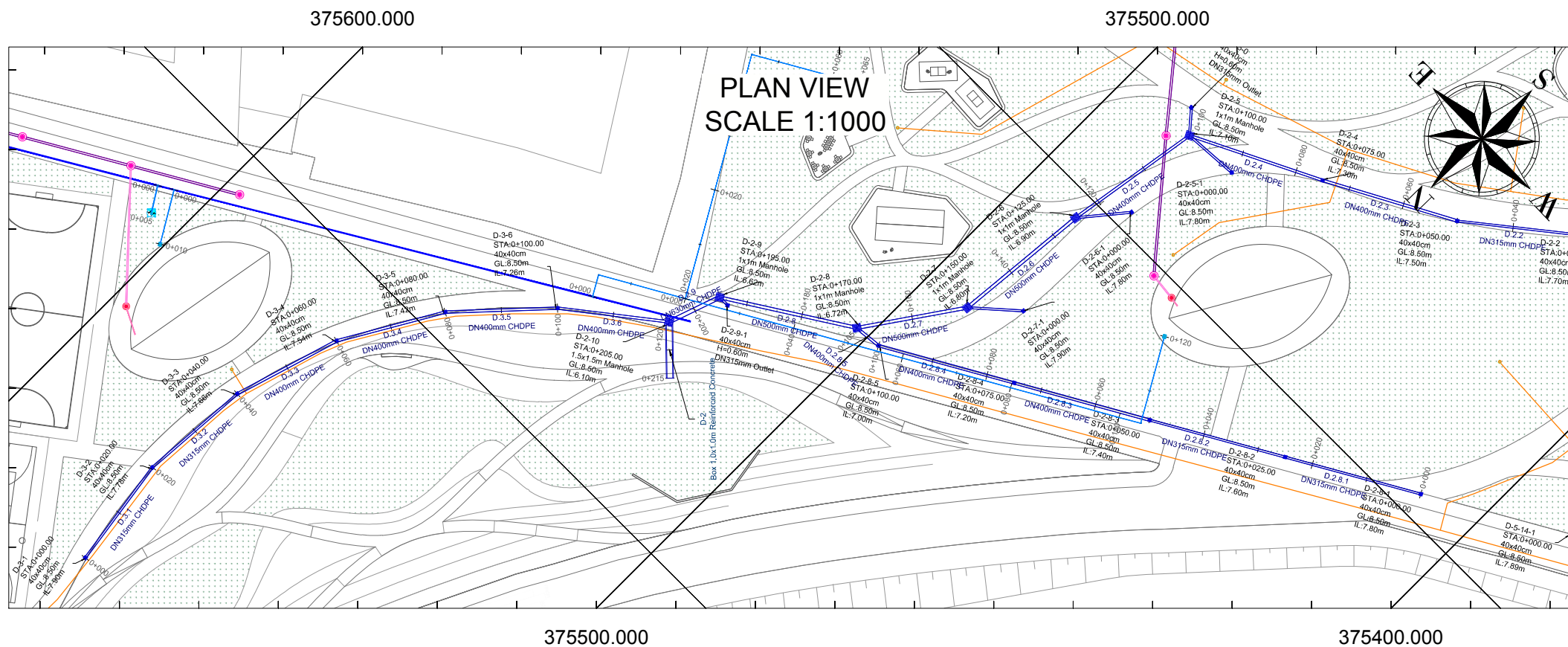
CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati 17, HS, Apt. 12, Tirana
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-2-8 Stormwater Line D-2-8 Longitudinal Profile

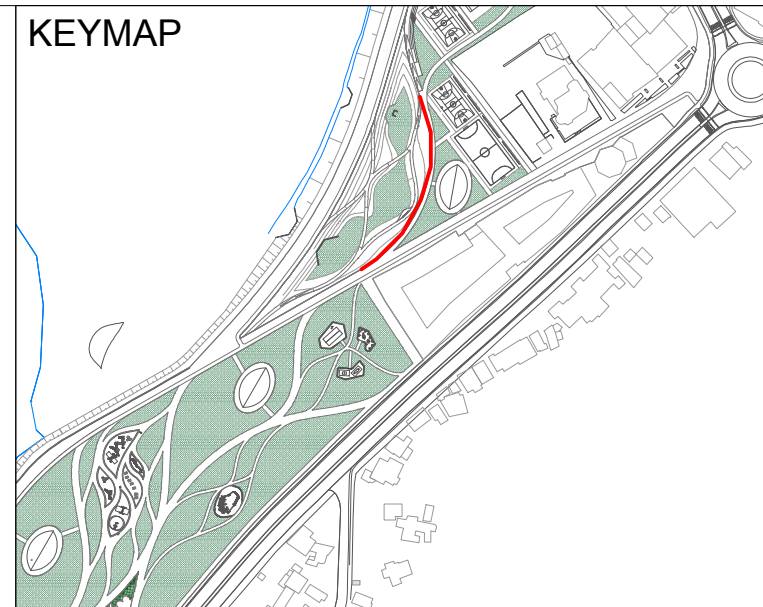
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects 3011 AH Rotterdam SRP Schneider & Partner, Ingenieur-Consult GmbH T +31 (0)10 240 9333 SRP Albanian Engineering sh.p.k. contact@casanova-hernandez.com			



Slope Pipeline
$i=0.0060$ DN315mm
$i=0.0060$ DN315mm
$i=0.0060$ DN400mm
$i=0.0060$ DN400mm
$i=0.0080$ DN400mm
$i=0.0080$ DN400mm

VOLUMES TABLE										
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm CHDPE Pipe	DN400mm CHDPE Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
LO W	UNIT	m ³	m ³	m ³	m ³	ml	ml	pcs	pcs	m ²
	VOLUME	150.16	142.96	7.20	76.73	40.00	80.00	6.00	0.00	0.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianadf.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati 17, HS, Apt. 12, Tirana
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

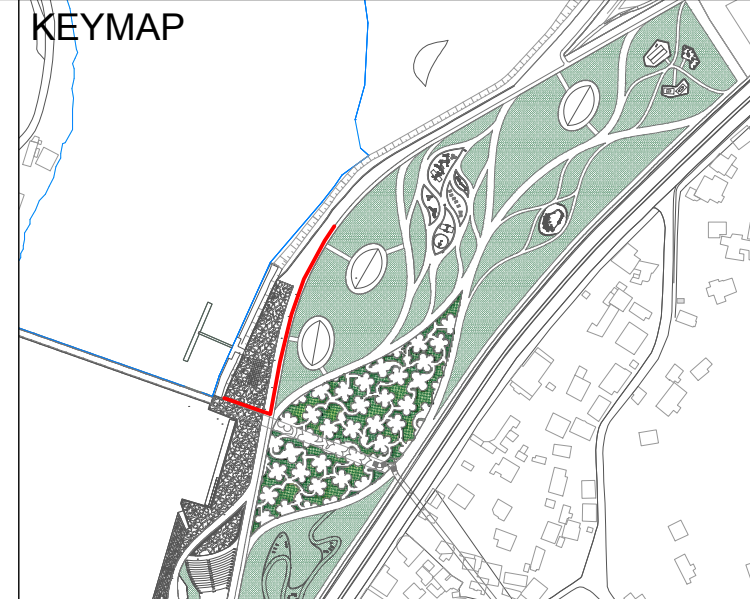
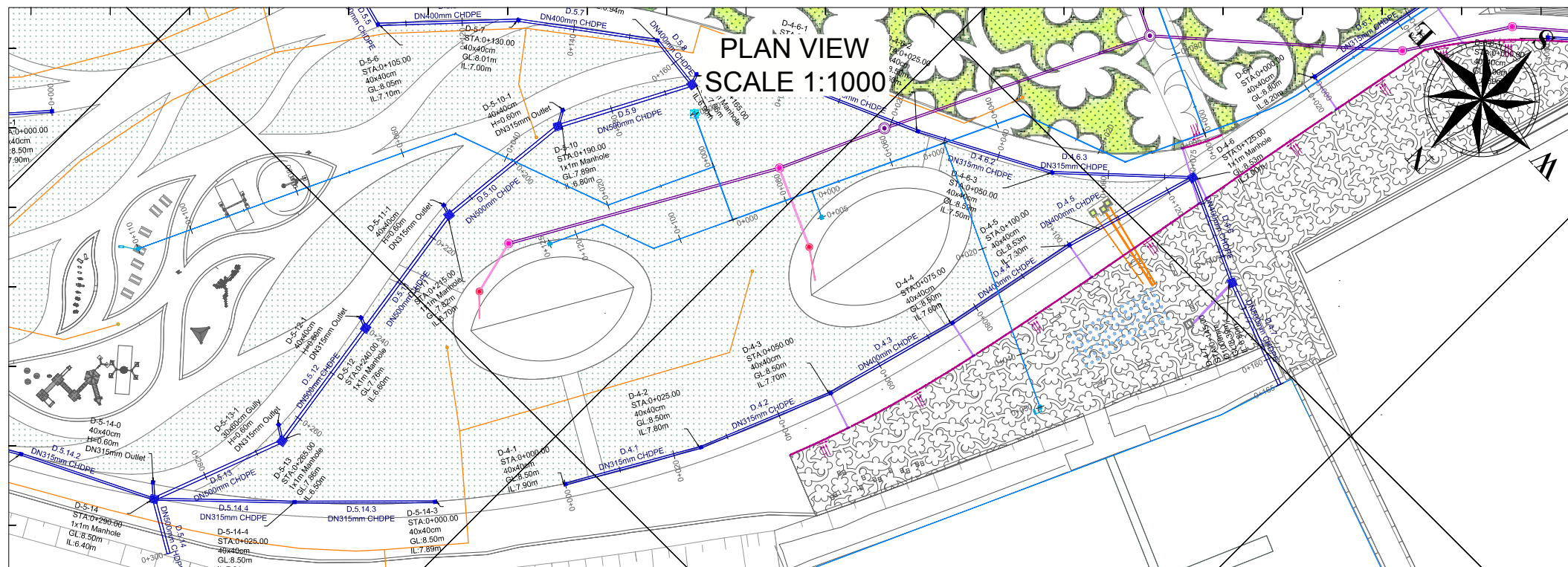
SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 (0)621 400 482 - 11
Mobile: +49 (0)170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-3 Stormwater Line D-3 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.			
Lombardkade 24A 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com			

375400.000

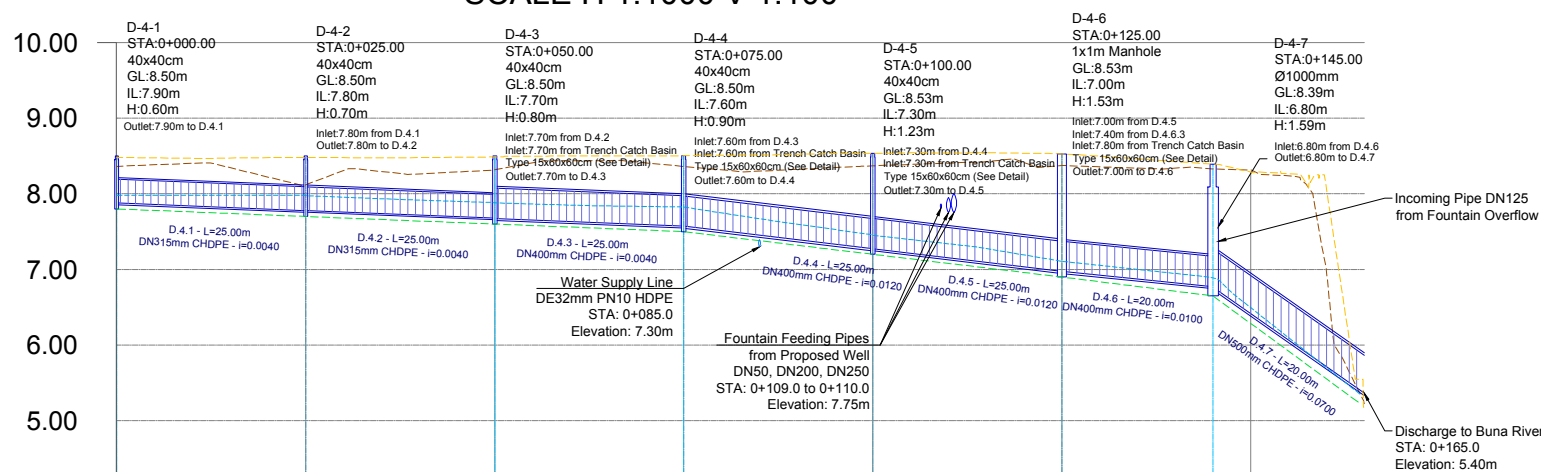
375300.000



375300.000

375200.000

**LONGTITUDINAL PROFILE
SCALE H 1:1000 V 1:100**



Slope
Pipeline
Manhole + Station
Ground Elevation
Invert Elevation
Excavation Depth (m)
Partial Length (m)
Hydraulic Grade (m)
Station (m)
Ground Layer

	D-4-1 0+000.0	D-4-2 0+025.0	D-4-3 0+050.0	D-4-4 0+075.0	D-4-5 0+100.0	D-4-6 0+125.0	D-4-7 0+145.0
i=0.0040 DN315mm							
i=0.0040 DN315mm							
i=0.0040 DN400mm							
i=0.0120 DN400mm							
i=0.0120 DN400mm							
i=0.0100 DN400mm							
i=0.0700 DN500mm							
D-4-1 0+000.0	D-4-2 0+025.0	D-4-3 0+050.0	D-4-4 0+075.0	D-4-5 0+100.0	D-4-6 0+125.0	D-4-7 0+145.0	
8.50 7.90	8.50 7.80	8.50 7.70	8.50 7.60	8.53 7.30	8.53 7.00	8.39 6.80	
0.88	0.78	0.80	1.00	1.33	1.63	1.74	
25.00	25.00	25.00	25.00	25.00	20.00	20.00	
7.98	7.98	7.88	7.82	7.45	7.11	6.89	
0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+165
	Concrete	Concrete	Concrete	Concrete	Concrete	Granite	

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr: "Sani Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati 17, H5, Apt. 12, Tirana
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 (0)621 400 482 - 11
Mobile: +49 (0)170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN160mm Pipe	Slot Drain	DN315mm Pipe	DN400mm Pipe	15x60x60cm Manholes	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	ml	pcs	pcs	pcs	m ²
	VOLUME	169.12	158.20	10.92	80.50	37.00	117.00	50.00	75.00	6.00	5.00	1.00	0.00

VOLUMES TABLE

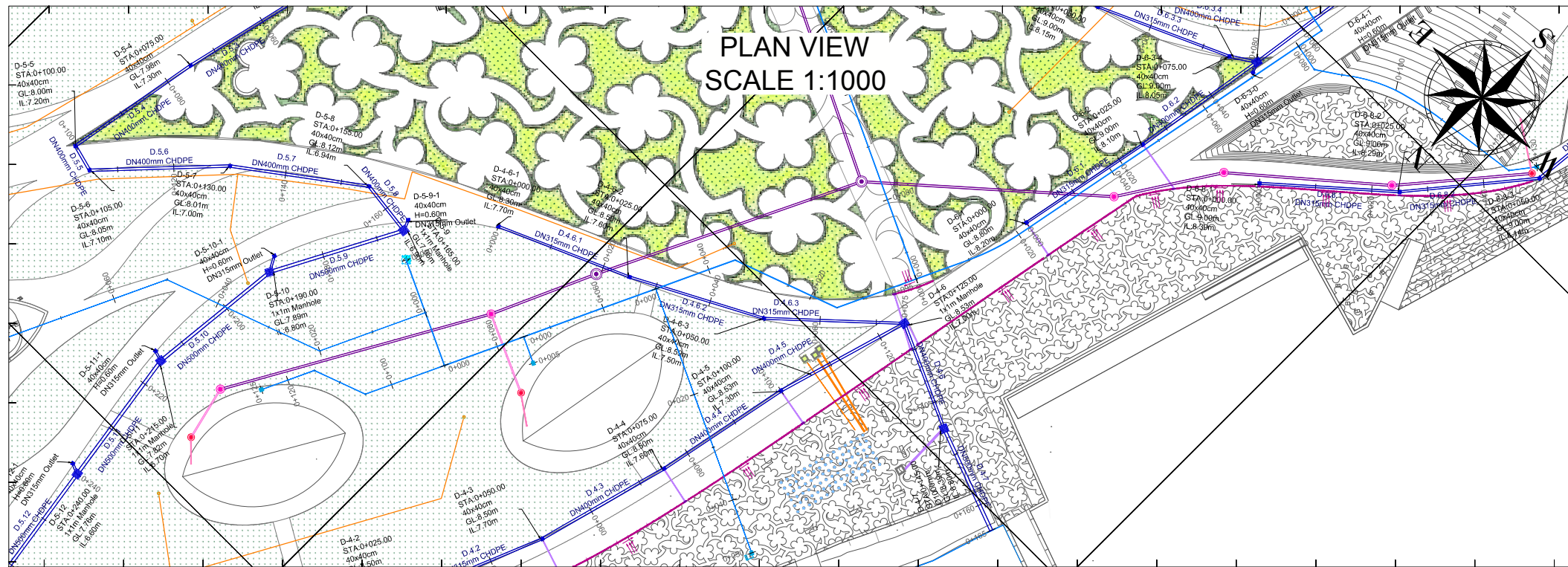
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN400mm Pipe	DN500mm Pipe	d=1000m Manholes
L05	UNIT	m ³	m ³	m ³	m ³	ml	ml	pcs
	VOLUME	98.37	7.50	26.78	30.86	20.00	20.00	1.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

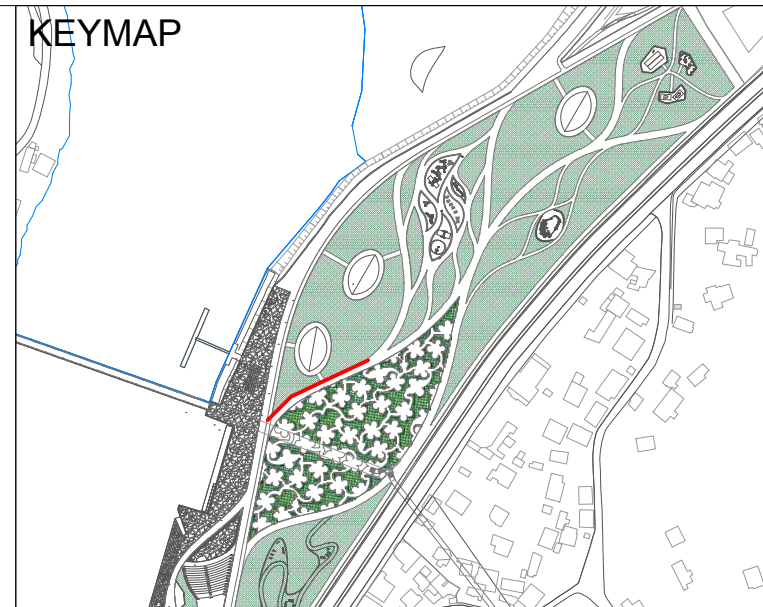
DD-H-SW-LP-D-4 Stormwater Line D-4 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.			
Lombardkade 24A 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com			

375400.000

375300.000



KEYMAP



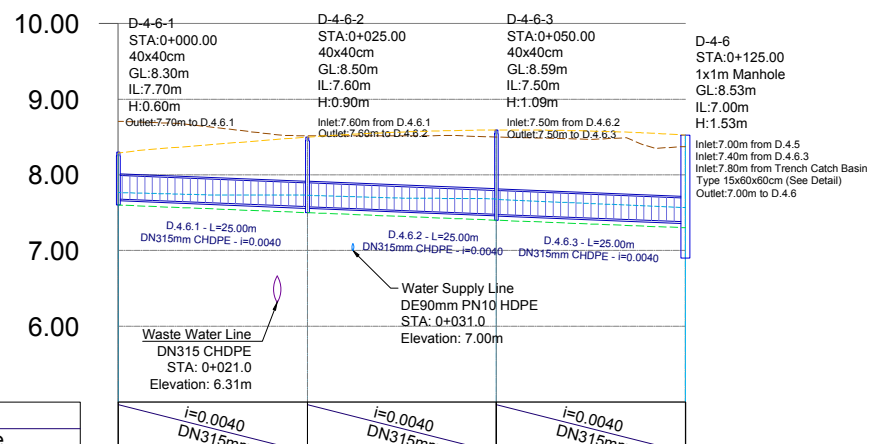
LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

375300.000

375200.000

LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100



Slope Pipeline
$i=0.0040$
$i=0.0040$
$i=0.0040$

Manhole + Station	D-4-6-1 0+000.0	D-4-6-2 0+025.0	D-4-6-3 0+050.0	D-4-6 0+125.0
Ground Elevation	8.30	8.50	8.59	8.53
Invert Elevation	7.70	7.60	7.50	7.00
Excavation Depth (m)	0.60	0.90	1.09	1.53
Partial Length (m)	25.00	25.00	25.00	
Hydraulic Grade (m)	7.77	7.73	7.68	7.57
Station (m)	0+000	0+025	0+050	0+075
Ground Layer		Concrete	Concrete	

VOLUMES TABLE							
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm Pipe	40x40cm Manholes
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	pcs
	VOLUME	79.80	74.44	5.36	36.94	75.00	3.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

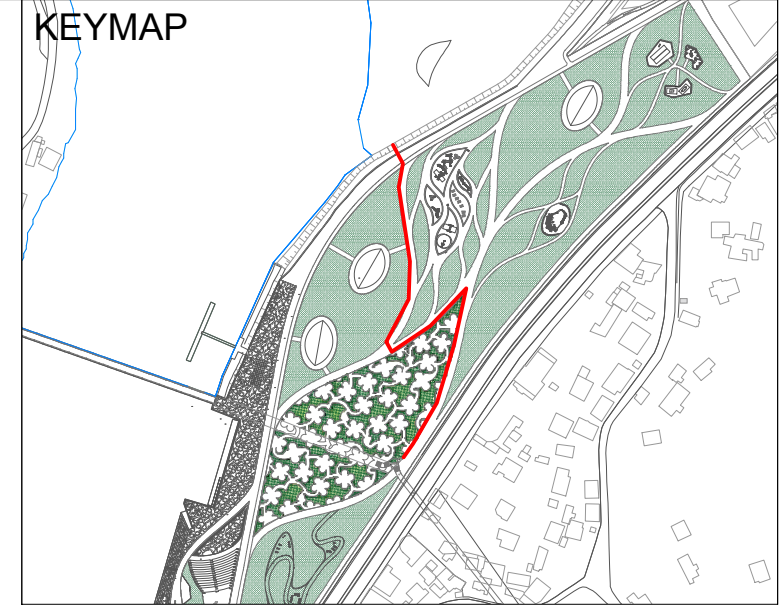
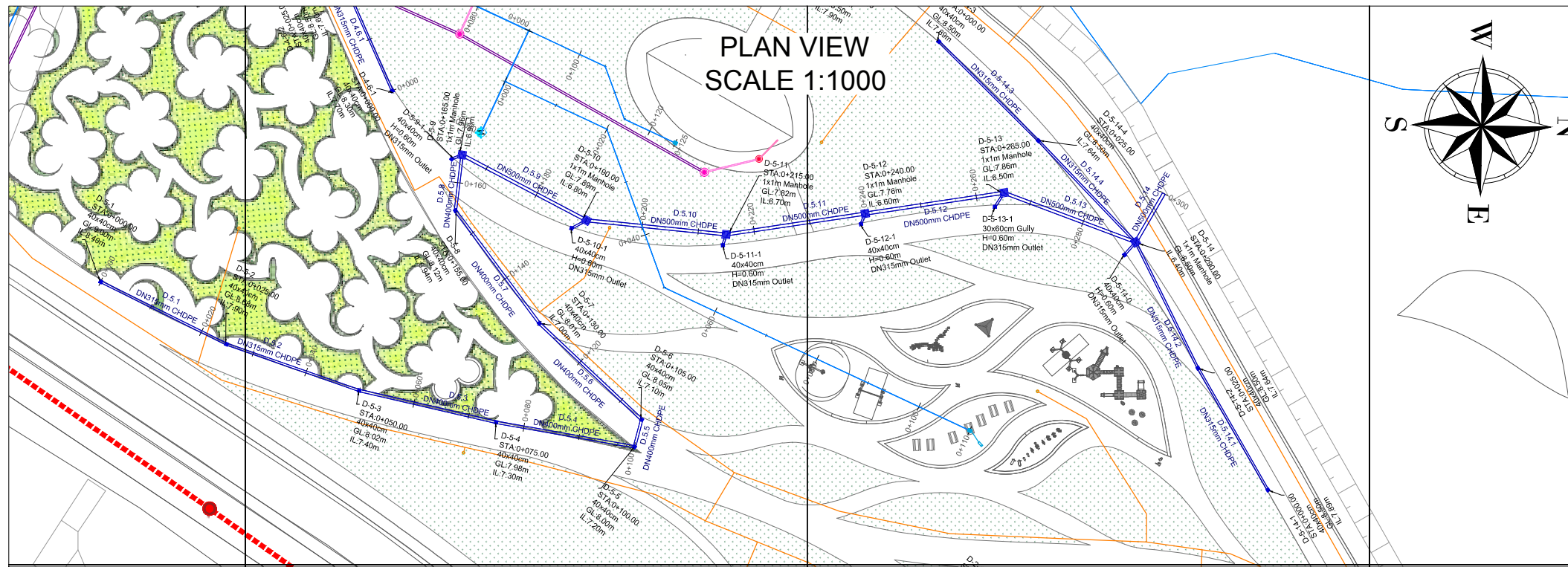
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati 17, H5, Apt. 12, Tirana
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

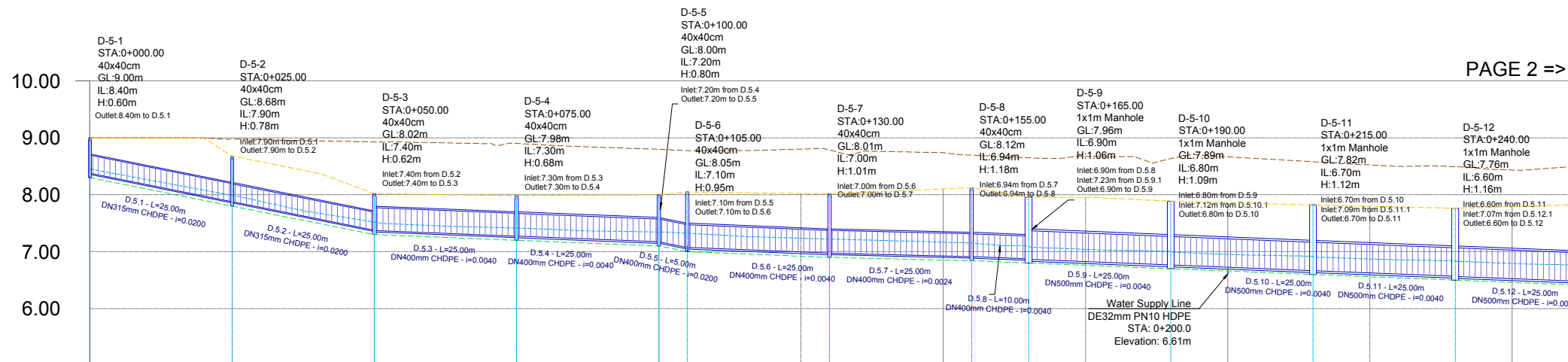
SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-4 Stormwater Line D-4 Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.			
Lombardkade 24A 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com			



LONGTITUDINAL PROFILE
SCALE H 1:1000 V 1:100



PAGE 2 =>

Slope Pipeline	i=0.0200 DN315mm											
Manhole + Station	D-5-1 0+000.0	D-5-2 0+025.0	D-5-3 0+050.0	D-5-4 0+075.0	D-5-5 0+100.0	D-5-6 0+105.0	D-5-7 0+130.0	D-5-8 0+155.0	D-5-9 0+165.0	D-5-10 0+190.0	D-5-11 0+215.0	D-5-12 0+240.0
Ground Elevation	9.00	8.68	8.02	7.98	8.00	7.20	8.01	8.12	7.96	7.89	7.82	7.76
Invert Elevation	8.40	7.90	7.40	7.30	7.20	8.05	7.00	6.94	6.90	6.80	6.70	6.60
Excavation Depth (m)	0.70	0.88	0.72	0.78	0.90	1.05	1.11	1.28	1.15	1.19	1.22	1.26
Partial Length (m)	25.00	25.00	25.00	25.00	5.00	25.00	25.00	10.00	25.00	25.00	25.00	25.00
Hydraulic Grade (m)	8.45	7.99	7.52	7.41	7.34	7.32	7.22	7.15	7.09	7.00	6.91	6.83
Station (m)	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	
Ground Layer		Concrete	Concrete	Concrete	Concrete	Concrete	Concrete	Grass	Grass	Grass	Grass	Grass

AREA		CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm Pipe	DN400mm Pipe	DN500mm Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0	RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	pcs	m ²
		VOLUME	486.96	377.46	109.50	212.74	65.00	105.00	145.00	14.00	6.00	105.60

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

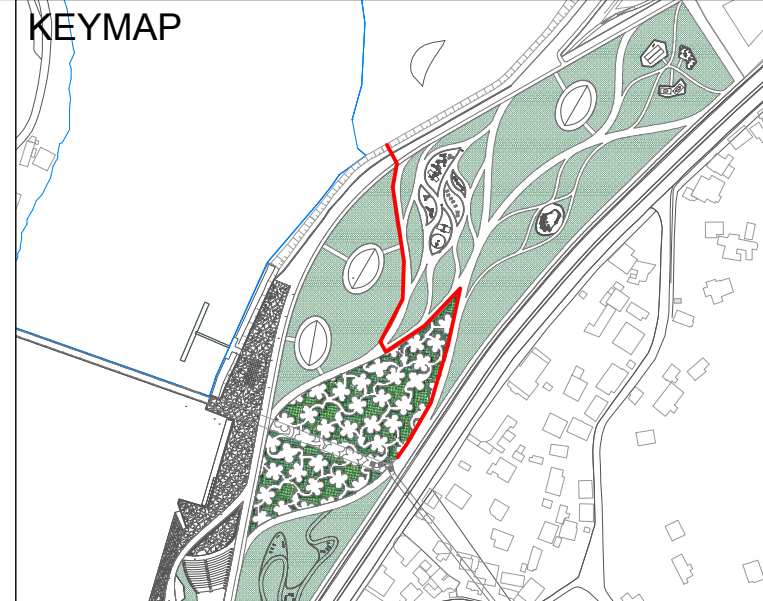
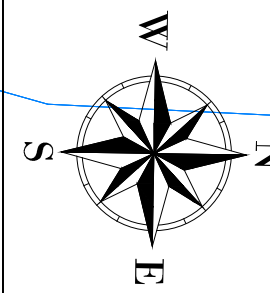
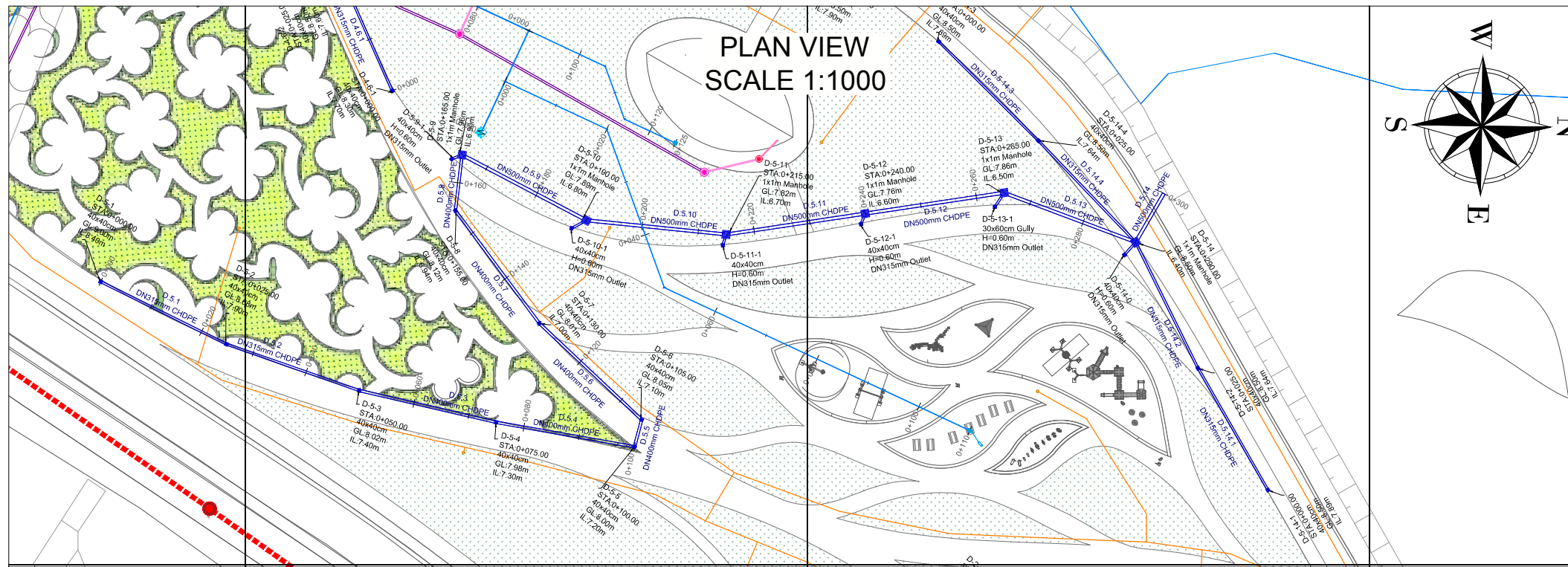
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: contact@casanova-hernandez.com

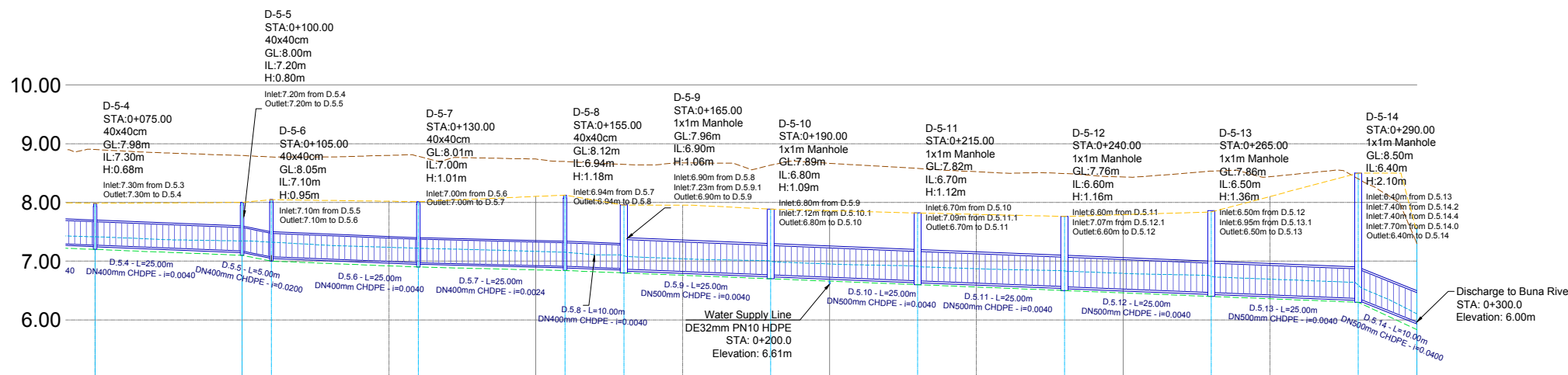
SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-5.1 Stormwater Line D-5 Longitudinal Profile	
Drawing number	Description
Detailed Design	420 x 297 mm 1:1000 23-09-2022
Phase	Format Scale Date
L077	Master Plan of Interventions at the Entrance of Shkodra
Project number	Project name
casanova+hernandez architects	Lombardkade 24A 3011 AH Rotterdam
SRP Schneider & Partner, Ingenieur-Consult GmbH	T +31 (0)10 240 9333
SRP Albanian Engineering sh.p.k	F +31 (0)10 240 9229
	contact@casanova-hernandez.com



LONGTUDINAL PROFILE
SCALE H 1:1000 V 1:100



Slope Pipeline	i=0.0040 DN400mm		i=0.0040 DN400mm		i=0.0024 DN400mm		i=0.0040 DN400mm		i=0.0040 DN500mm		i=0.0040 DN500mm		i=0.0040 DN500mm		i=0.0040 DN500mm	
Manhole + Station	D-5-4 0+075.0	D-5-5 0+100.0	D-5-6 0+105.0	D-5-7 0+130.0	D-5-8 0+155.0	D-5-9 0+165.0	D-5-10 0+190.0	D-5-11 0+215.0	D-5-12 0+240.0	D-5-13 0+265.0	D-5-14 0+290.0					
Ground Elevation	7.98	8.00	8.05	8.01	8.12	8.06	7.89	7.82	7.76	7.86	8.50					
Invert Elevation	7.30	7.20	7.10	7.00	6.94	6.90	6.80	6.70	6.60	6.50	6.40					
Excavation Depth (m)	0.78	0.90	1.05	1.11	1.28	1.15	1.19	1.22	1.26	1.44	2.20					1.73
Partial Length (m)		25.00	5.00	25.00	25.00	10.00	25.00	25.00	25.00	25.00	25.00					10.00
Hydraulic Grade (m)	7.41	7.34	7.32	7.22	7.15	7.09	7.00	6.91	6.83	6.74	6.59					6.10
Station (m)	0+075	0+100	0+105	0+125	0+150	0+165	0+175	0+200	0+225	0+250	0+275					0+300
Ground Layer	Concrete	Concrete	Concrete	Concrete	Grass	Grass	Grass	Grass	Grass	Grass	Concrete					

VOLUMES TABLE											
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm Pipe	DN400mm Pipe	DN500mm Pipe	40x40cm Manholes	1x1m Manholes	Sheetpiles
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	pcs	m ²
	VOLUME	486.96	377.46	109.50	212.74	65.00	105.00	145.00	14.00	6.00	105.60

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr: "Sami Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albandef.org

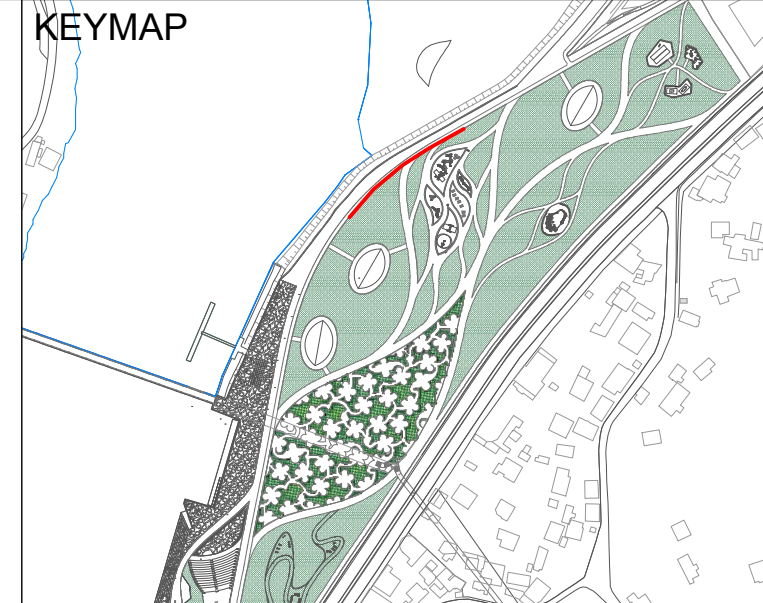
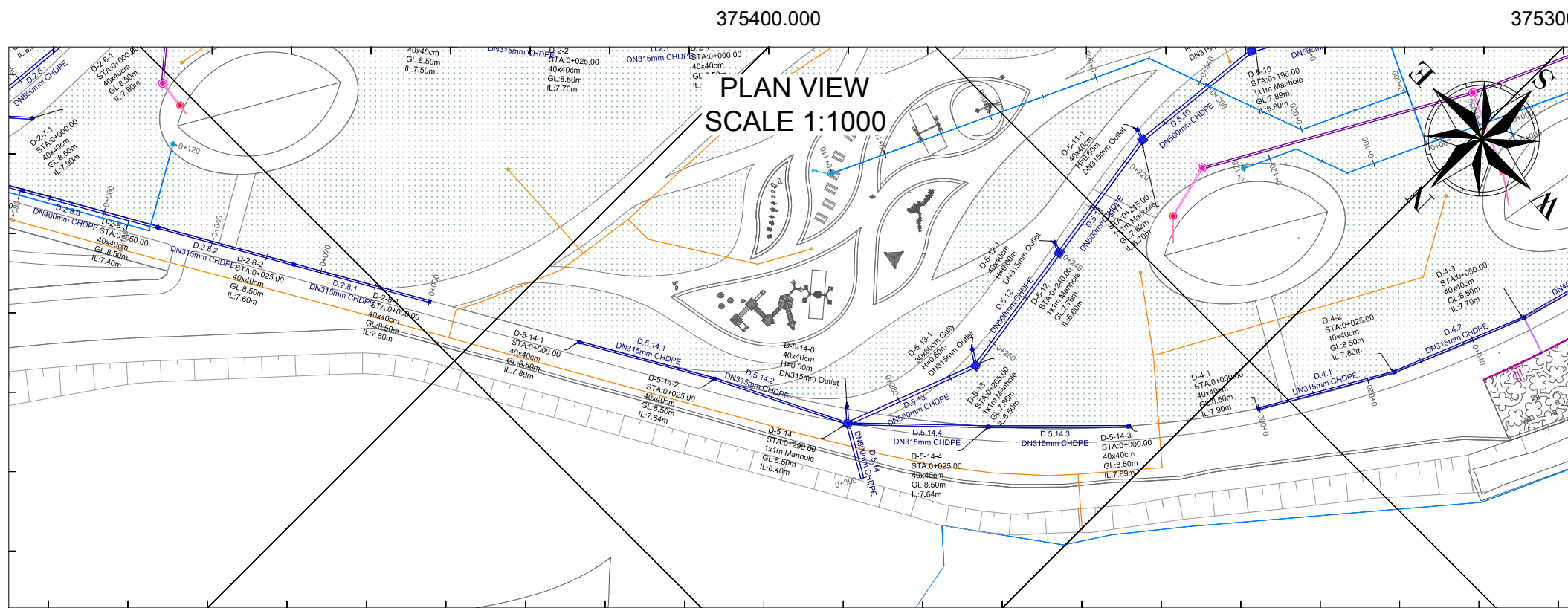
CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Mobile: +31 (0)10 2409333
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

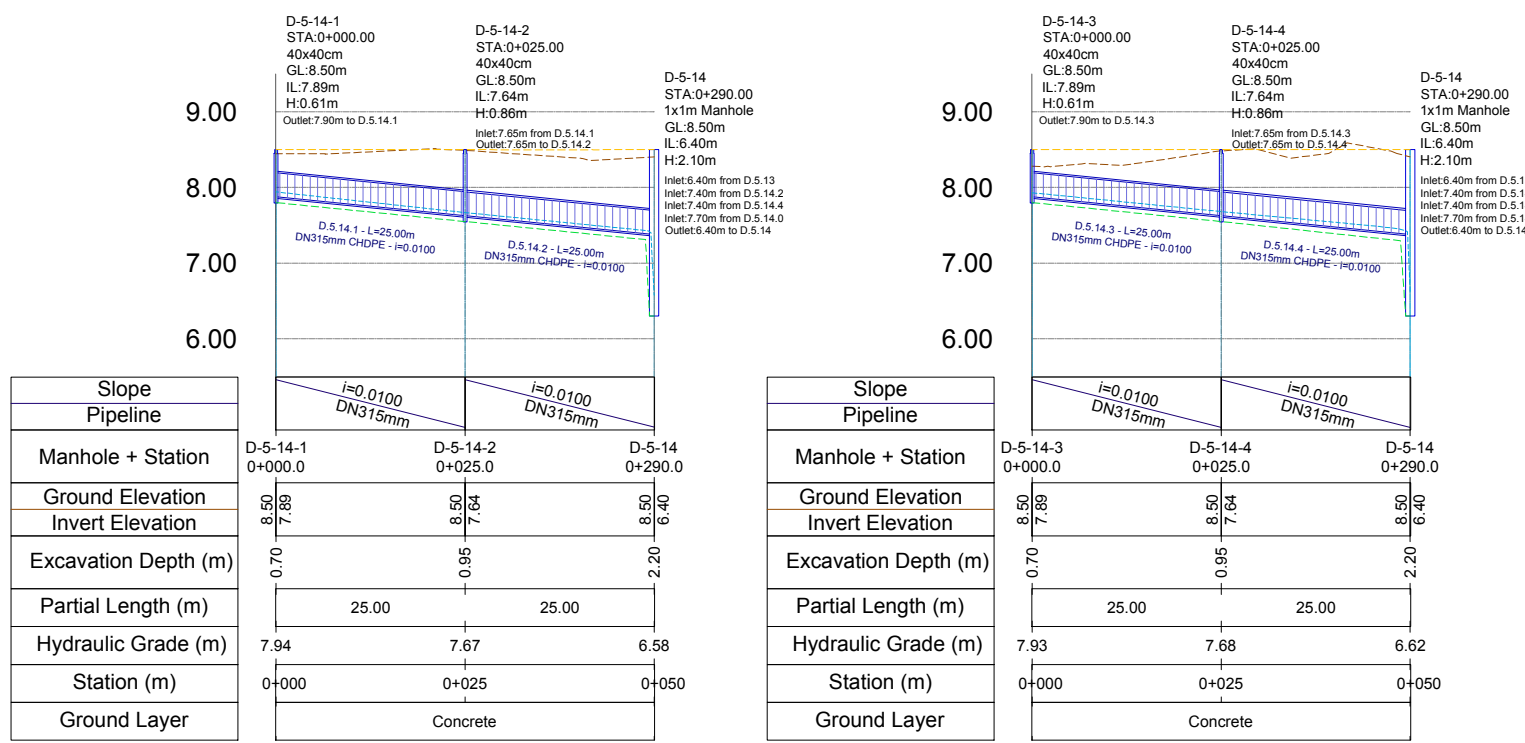
SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-5.2 Stormwater Line D-5 Longitudinal Profile

Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	Lombardkade 24A 3011 AH Rotterdam		
SRP Schneider & Partner, Ingenieur-Consult GmbH	T +31 (0)10 240 9333		
SRP Albanian Engineering sh.p.k	F +31 (0)10 240 9229		
	contact@casanova-hernandez.com		



375400.000 375300.000
LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN315mm Pipe	40x40cm Manholes
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	pcs
	VOLUME	95.90	94.90	25.60	36.94	100.00	4.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Waste Water Network
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
 ALBANIAN DEVELOPMENT FUND
 Contact person: Erni Dautaj (Menaxhere Kontrates)
 Pr. "Sami Frasheri", Nr. 10, Tirana, Albania
 Phone / Fax: 00355 4 234 885
 E-mail: edautaj@albandf.org

CASANOVA+HERNANDEZ ARCHITECTS
 NIPT L82016014E
 Contact person: Mr. Jesus Hernandez
 Ibrahim Rugova, Pallati 17, H5, Apt. 12, Tirana
 Mobile: +31 (0)10 2409333
 E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
 NIUS L81728013G
 Contact person: Blerim Kurti
 Rruga Tom Piezha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
 Tel.: +355 48 272 528
 Mobile: +355 68 2020 335
 E-mail: blerim.kurti@srp-consult.de

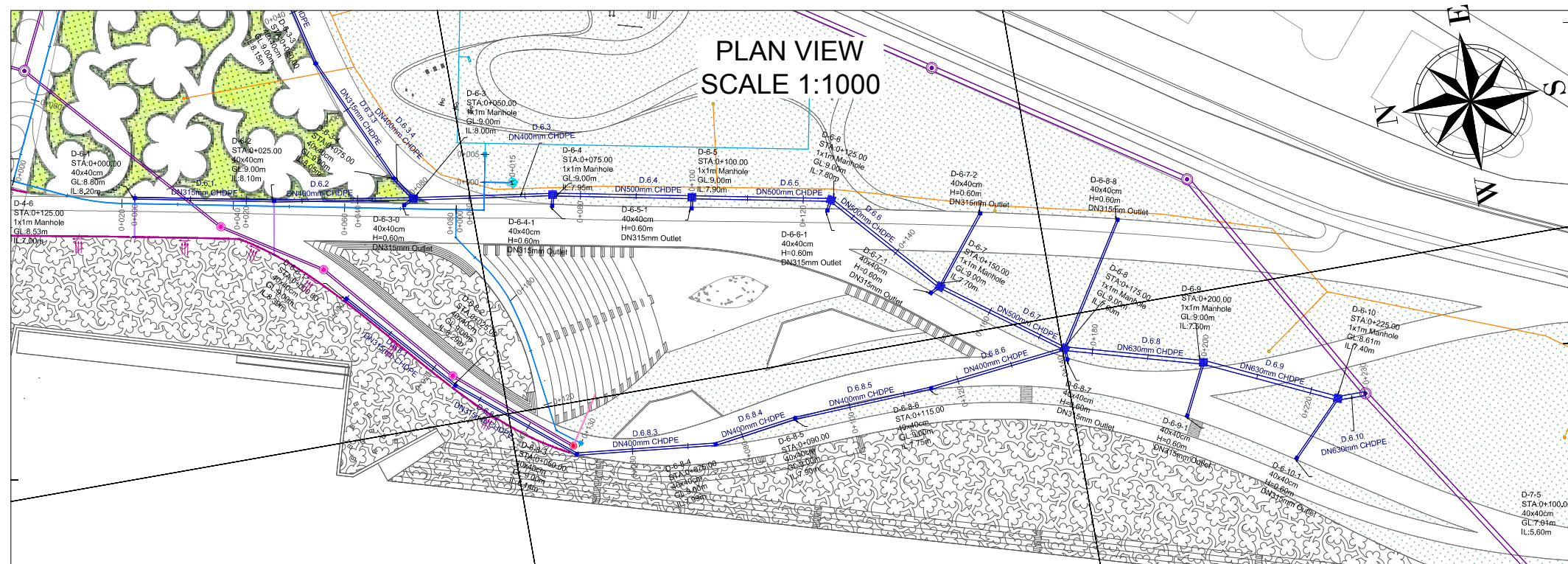
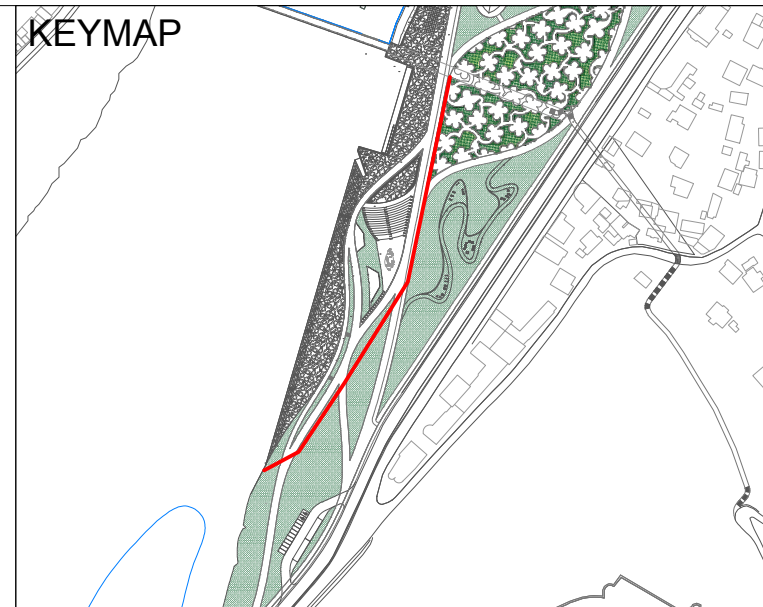
SRP Schneider & Partner, Ingenieur-Consult GmbH
 Augustaanlage 50, D-68165 Mannheim, Germany
 Handelsregister-Nr.: HRB 2082 Coburg
 Contact person: Frank Ehrlicher, Director International Division SRP
 Tel.: +49 (0)621 400 482 - 11
 Mobile: +49 (0)170 916 25 74
 E-mail: frank.ehrlicher@srp-consult.de

DD-H-SW-LP-D-5-14 Stormwater Line D-5-14 Longitudinal Profile

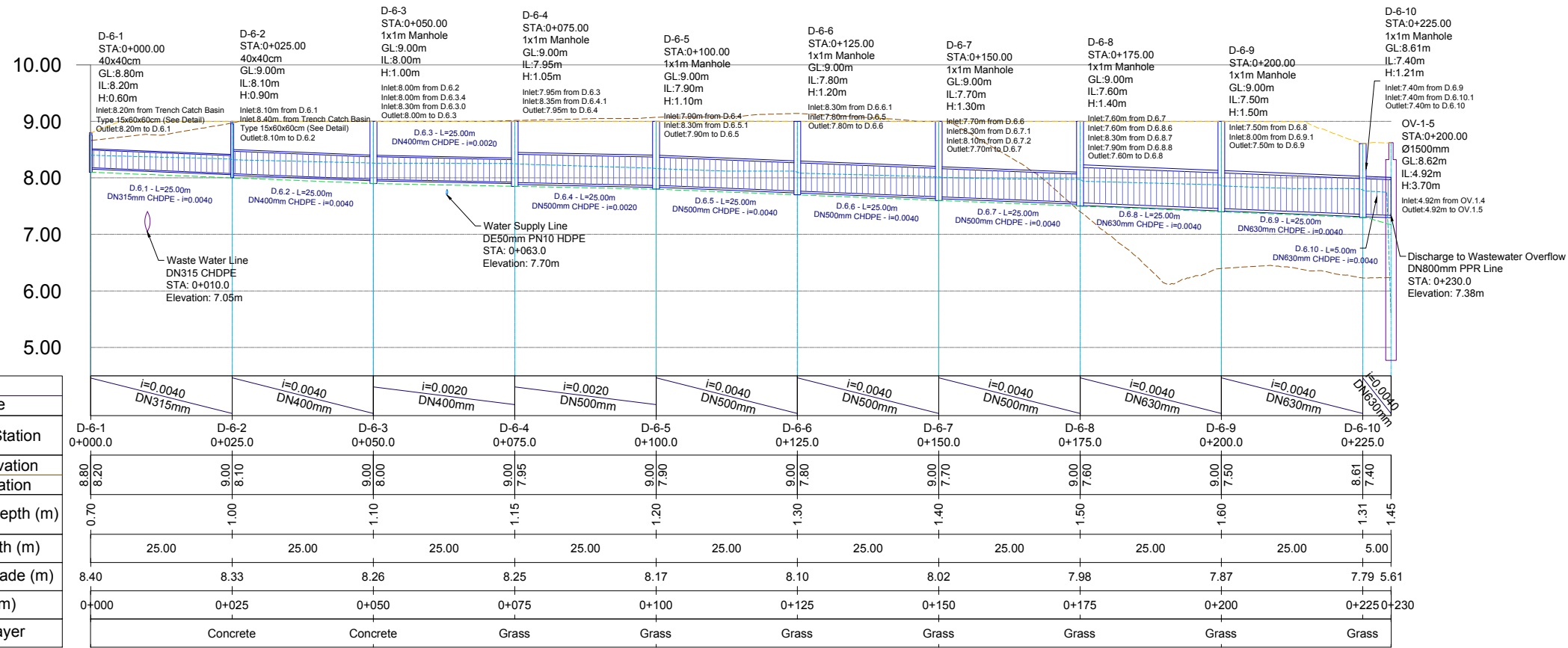
Drawing number	Description		
Detailed Design	420 x 297 mm 1:1000 23-09-2022		
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	SRP Schneider & Partner, Ingenieur-Consult GmbH	SRP Albanian Engineering sh.p.k.	

Lombardkade 24A
 3011 AH Rotterdam
 T +31 (0)10 240 9333
 F +31 (0)10 240 9229
 contact@casanova-hernandez.com

4656200.000



LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Slot Drain Manhole 15x60x60cm
	Proposed Slot Drain (See Detail)
	Proposed Pipe from Slot Drain to Network
	Proposed Storm Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level
	Hydraulic Grade Line

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The Hydraulic Grade Line inside the Pipeline shows the maximum water level for the most loaded hour, occurring at the same time as the one in a 10 Year Rain Event.
 - Except the 40x40cm and slot drain manholes, all the other ones used for the storm water network are according to drawing DD-D-C-01.

CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr: "Sani Frasher", Nr. 10, Tirana, Albania
Phone / Fax: 00355 4 234 885
E-mail: edautaj@albanianfund.org

CASANOVA+HERNANDEZ ARCHITECTS
NIPT L82016014E
Contact person: Mr. Jesus Hernandez
Ibrahim Rugova, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: contact@casanova-hernandez.com

SRP Albanian Engineering s.h.p.k.
NIUS L81728013G
Contact person: Blerim Kurti
Rruga Tom Piazha, Pallati Klensi, Shkalla 4, Kall 1, Ap. 2, Yzberisht, Tiranë 1051, Albania
Tel.: +355 48 272 528
Mobile: +355 68 2020 335
E-mail: blerim.kurti@srp-consult.de

SRP Schneider & Partner, Ingenieur-Consult GmbH
Augustaanlage 50, D-68165 Mannheim, Germany
Handelsregister-Nr.: HRB 2082 Coburg
Contact person: Frank Ehrlicher, Director International Division SRP
Tel.: +49 / 621 400 482 - 11
Mobile: +49 / 170 916 25 74
E-mail: frank.ehrlicher@srp-consult.de

VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DN160mm Pipe	Slot Drain	DN315mm Pipe	DN400mm Pipe	DN500mm Pipe	DN630mm Pipe	15x60x60cm Manholes	40x40cm Manholes	1x1m Manholes
L0 RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	ml	ml	ml	pcs	pcs	pcs
	VOLUME	487.44	393.49	93.95	193.51	17.00	39.00	100.00	50.00	100.00	55.00	2.00	12.00	8.00

NOTES : For shallow lines topsoil fill might be zero due to filling only with sand and above sand is directly the placement of pavement / roads layers.

DD-H-SW-LP-D-6 Stormwater Line D-6 Longitudinal Profile			
Drawing number	Description	Scale	Date
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	3011 AH Rotterdam		
SRP Schneider & Partner, Ingenieur-Consult GmbH	Lombardkade 24A		
SRP Albanian Engineering sh.p.k	T +31 (0)10 240 9333		
	F +31 (0)10 240 9229		
	contact@casanova-hernandez.com		