

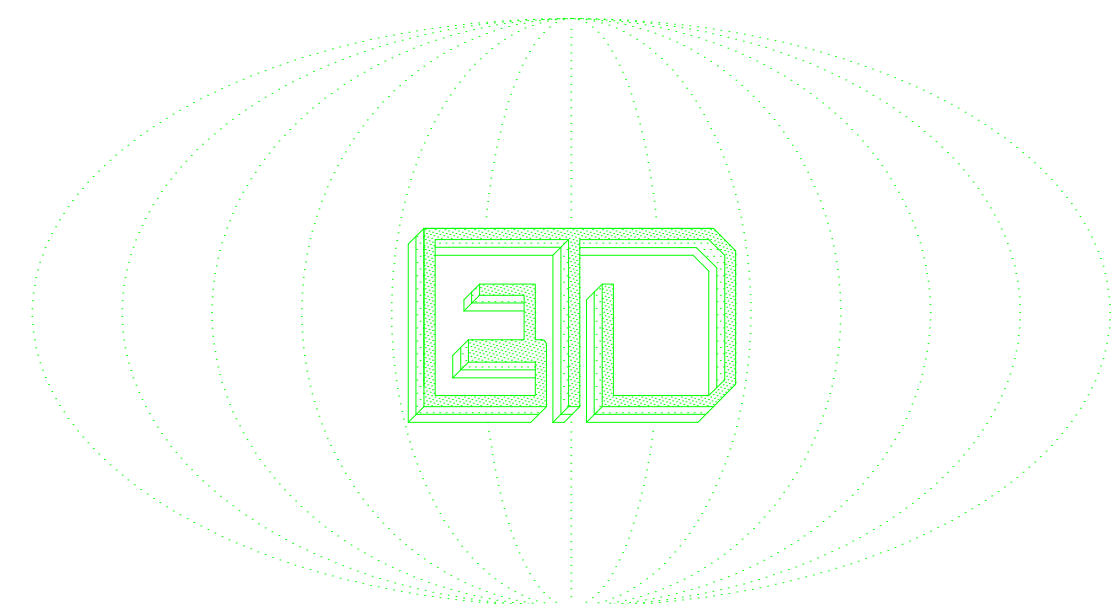
REPUBLIC OF LEBANON
MINISTRY OF ENERGY AND WATER
COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

PROJECT No.

EL MINA REMAINING COASTAL SEWER COLLECTORS

DRAWINGS

DECEMBER 2025



BUREAU TECHNIQUE
POUR LE
DEVELOPPEMENT

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EL MINA REMAINING COASTAL SEWER COLLECTORS				
TITLE 1	TITLE 2	DRAWING Nb.	SHEET Nb.	SEQ.Nb
LIST OF DRAWINGS	LIST OF DRAWINGS	451W-LOD-P01	1/1	1
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	GENERAL PLAN	451W-A0PA1	1/5	2
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PLAN	451W-A0PA2	2/5	3
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PLAN	451W-A0PA3	3/5	4
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PLAN	451W-A0PA4	4/5	5
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PLAN	451W-A0PA5	5/5	6
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE B1 PLAN	451W-B0PB01	1/2	7
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 2	LINE B2 PLAN	451W-B0PB02	2/2	8
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PROFILE	451W-A1P01	1/2	9
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE A PROFILE	451W-A1P02	2/2	10
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 1	LINE B1 PROFILE	451W-B1P01	1/2	11
EL MINA REMAINING COASTAL SEWER COLLECTORS - LOT 2	LINE B2 PROFILE	451W-B1P02	2/2	12
STANDARD DRAWING	PIPE TRENCH DETAILS GENERAL DETAILS	451W-STDP01	1/11	13
STANDARD DRAWING	MANHOLES GENERAL DETAILS	451W-STDP02	2/11	14
STANDARD DRAWING	MANHOLES GENERAL DETAILS	451W-STDP03	3/11	15
STANDARD DRAWING	MANHOLES GENERAL DETAILS	451W-STDP04	4/11	16
STANDARD DRAWING	MANHOLES GENERAL DETAILS	451W-STDP05	5/11	17
STANDARD DRAWING	MANHOLES GENERAL DETAILS	451W-STDP06	6/11	18
STANDARD DRAWING	SEWER NETWORKS PIPELINE ANCHOR BLOCKS	451W-STDP07	7/11	19
STANDARD DRAWING	BRIDGE CROSSING	451W-STDP08	8/11	20
STANDARD DRAWING	GENERAL DETAILS PIPE TRENCH DETAILS BELOW WATER TABLE	451W-STDP09	9/11	21
STANDARD DRAWING	GENERAL DETAILS PIPE TRENCH DETAILS BELOW WATER TABLE	451W-STDP10	10/11	22
STANDARD DRAWING	GENERAL DETAILS PIPE TRENCH DETAILS BELOW WATER TABLE	451W-STDP11	11/11	23

		<i>Date</i>	<i>Dsgn</i>	<i>Drawn</i>	<i>Chk'd</i> <i>Appr'd</i>

REPUBLIC OF LEBANON

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

BD

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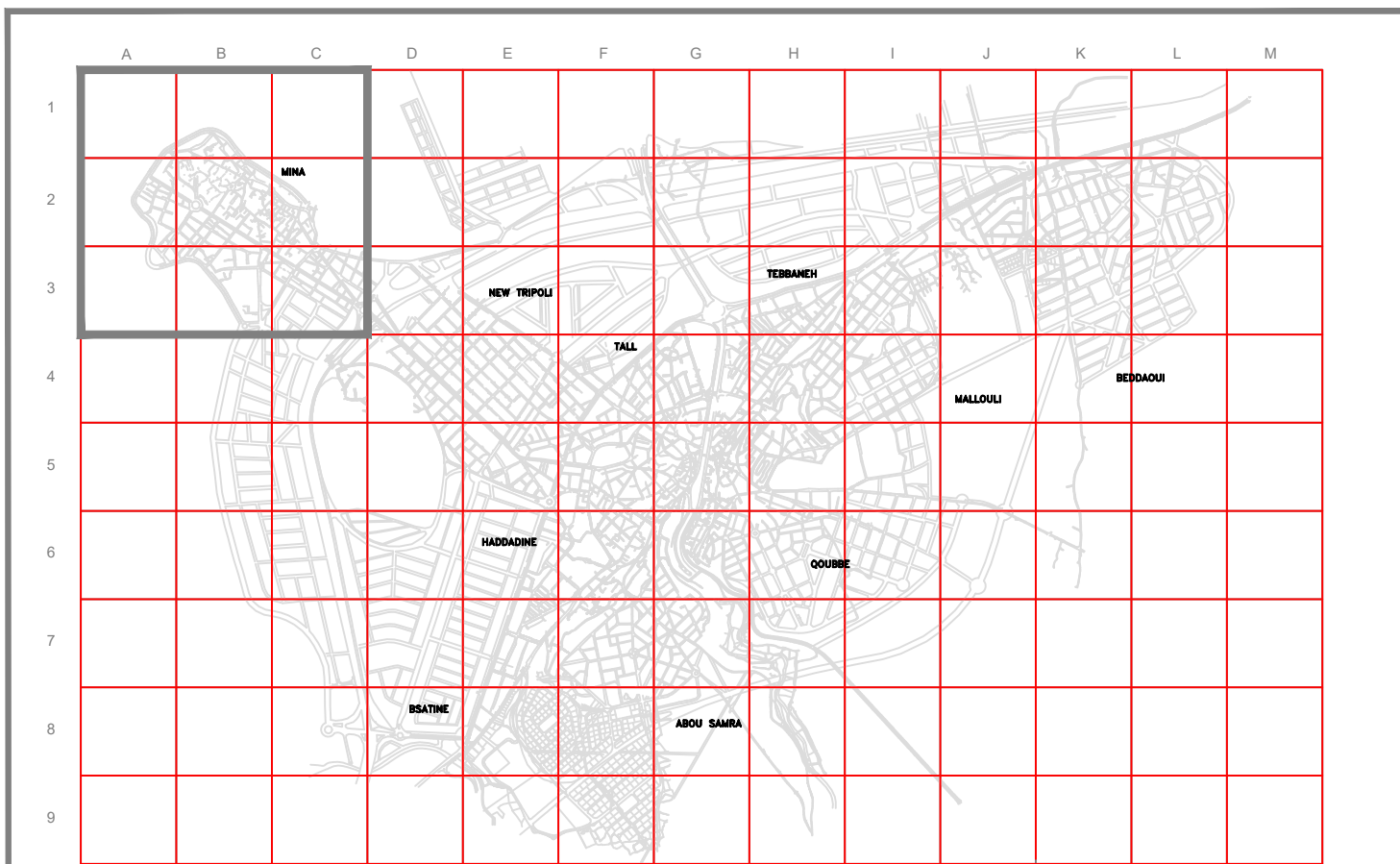
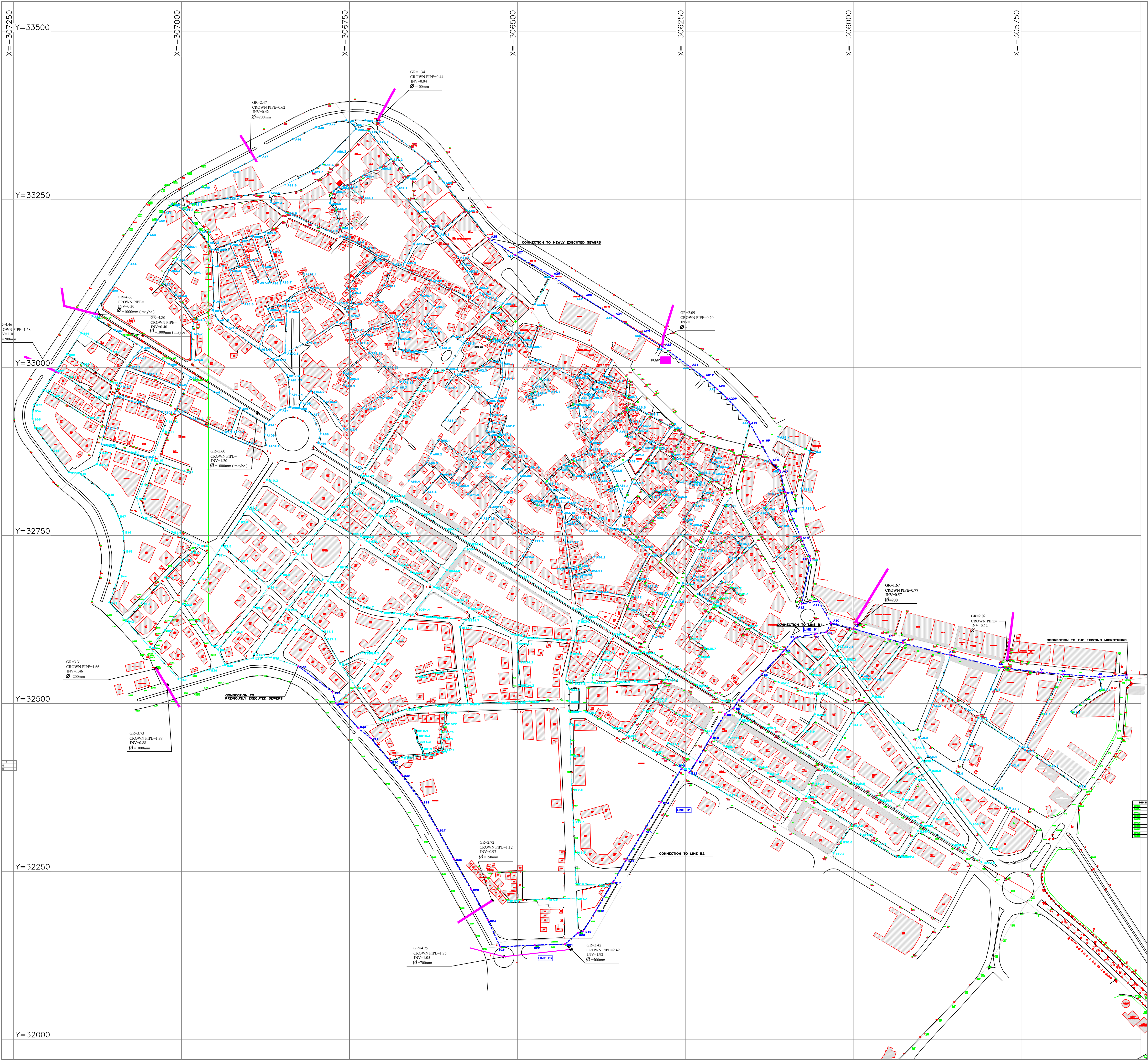
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EL MINA REMAINING COASTAL SEWER COLLECTORS

LIST OF DRAWINGS

<i>DRAWING No.</i>	<i>DESIGNED BY</i>	<i>DRAWN BY</i>	<i>CHECKED BY</i>
451W–LOD	B.T.D.	B.T.D.	B.T.D.

<i>DATE</i>	<i>SCALE</i>	<i>SHEET No.</i>	<i>SEQ No.</i>
DECEMBER 2025	-	1/1	451W–LOD–P01

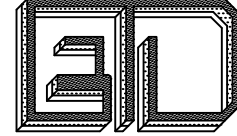


- NOTES:**
- 1- THE CONDITION OF THE EXISTING WASTEWATER LINES IS TO BE VERIFIED ON SITE BY THE CONTRACTOR.
 - 2- WHERE A NEW LINE IS CONNECTED TO AN EXISTING MANHOLE, THE INVERT LEVEL OF THE MANHOLE SHOULD BE VERIFIED ON SITE BY THE CONTRACTOR, AND THE CONTRACTOR WILL TAKE ALL THE MEASURES TO DEAL WITH FLOW.
 - 3- WHERE THE PIPE COVER IS LESS THEN 90cm A CONCRETE SURROUND WILL BE EXECUTED.
 - 4- WHERE THERE IS AN INTERSECTION WITH A WATER SUPPLY LINE A CONCRETE SURROUND WILL BE EXECUTED.
 - 5- THE NEW EXECUTED LINE WILL REPLACE THE EXISTING ONE WHICH WILL BE DISCONNECTED BY THE CONTRACTOR WHEN THE NEW SYSTEM WILL BE PUT IN SERVICE.
 - 6- FOR THE HOUSE CONNECTIONS REFER TO THE PARTICULAR SPECIFICATIONS.
 - 7- FOR MANHOLES DETAILS REFER TO THE PARTICULAR SPECIFICATIONS AND STANDARD DRAWINGS.
 - 8- FOR TRENCH DETAILS REFER TO THE PARTICULAR SPECIFICATIONS AND STANDARD DRAWINGS.

TOPOGRAPHICAL LEGEND				WW NETWORK LEGEND	
BUILDING	CULVERT/BRIDGE	PYL	PYLON	WASTEWATER LINE	WASTEWATER LINE USED FOR CALCULATION PURPOSE ONLY
FOUNDATION/BUILDING UNDER CONSTRUCTION	SPRING	ELS.S	ELECTRIC SUB STATION	NEW WASTEWATER LINE	NEW WASTEWATER LINE
ROAD	WELL	EP/TP	ELECTRIC POLE/TELEGRAPH POLE	NEW STORM WATER LINE	NEW STORM WATER LINE
TRACK	DECIDUOUS/PINE TREE	OVERGROUND WATER PIPE	OVERGROUND WATER PIPE	EXISTING STORM WATER LINE	EXISTING STORM WATER LINE
REFERENCE LINE	ROCKS	UNDERGROUND WATER PIPE	UNDERGROUND WATER PIPE	EXISTING WATER SUPPLY LINE	EXISTING WATER SUPPLY LINE
SIDE WALK	BUSHES	1160.12	SPOT HEIGHT	NEW MANHOLE	NEW MANHOLE
RETAINING WALL	MH S	TR	TRAVERSING STATION	DROP MANHOLE	DROP MANHOLE
RAILWAY	MH W	TP	TRIANGULATION POINT	EXISTING MANHOLE	EXISTING MANHOLE
CHANNEL	MH T	BM	BENCH MARK	MH USED FOR CALCULATION PURPOSE ONLY	MANHOLE USED FOR CALCULATION PURPOSE ONLY
TERRACE	MH NI	1262	PLOT No		
FENCE	LP	B	BOUNDARY		
STREAM/RIVER		CB	CIRCUMSCRIPTION BOUNDARY		

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EL MINA REMAINING COASTAL SEWER COLLECTORS LOT 1 – COMPULSORY

EL MINA REMAINING COASTAL SEWER COLLECTORS	GENERAL PLAN
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FILE	DESIGNED BY	DRAWN BY	CHECKED BY
451W-AOPA1	B.T.D	B.T.D	B.T.D

DATE	SCALE	SHEET No.	DRAWING No.
DECEMBER 2025	1;4000	1/5	451W-AOPA1