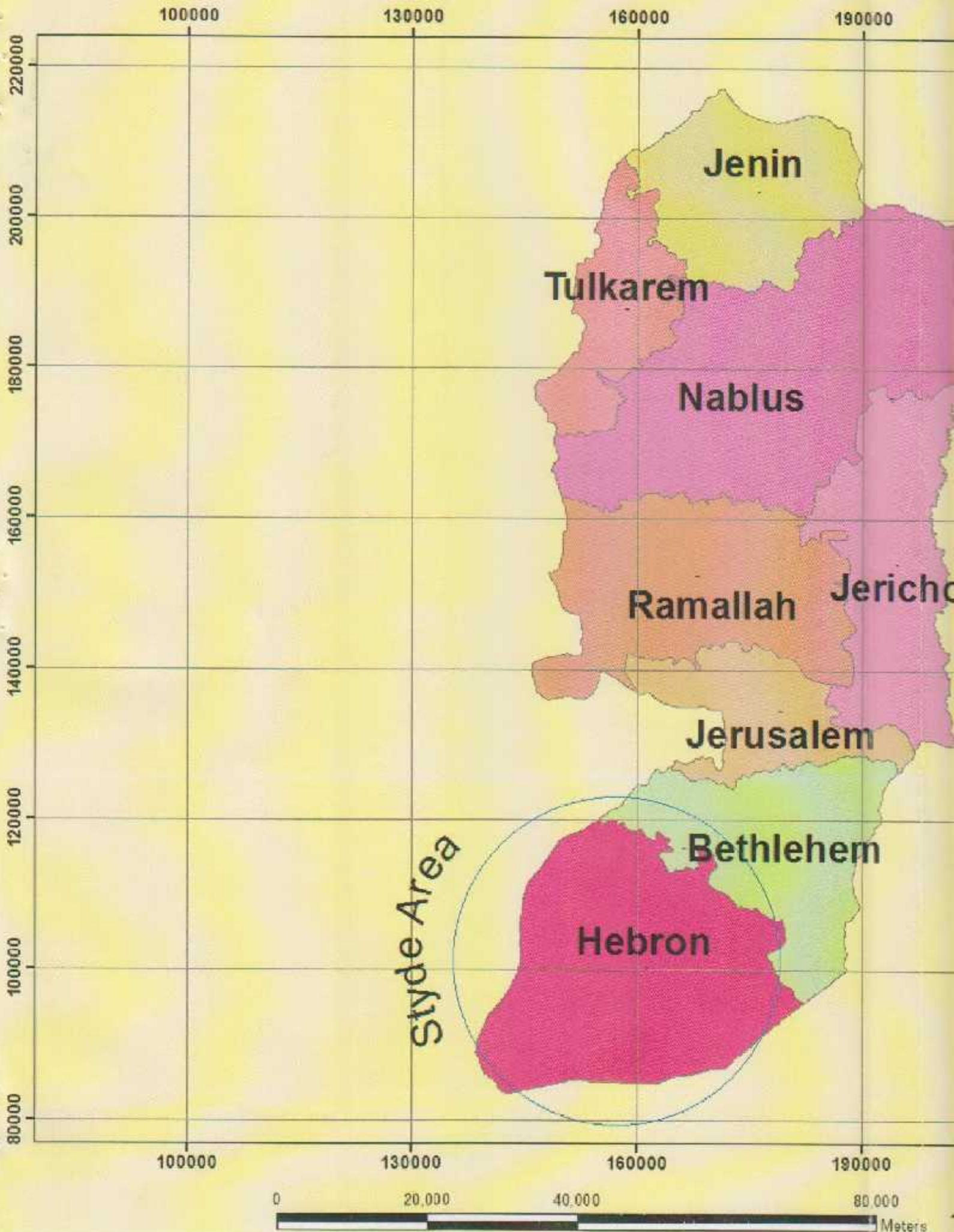
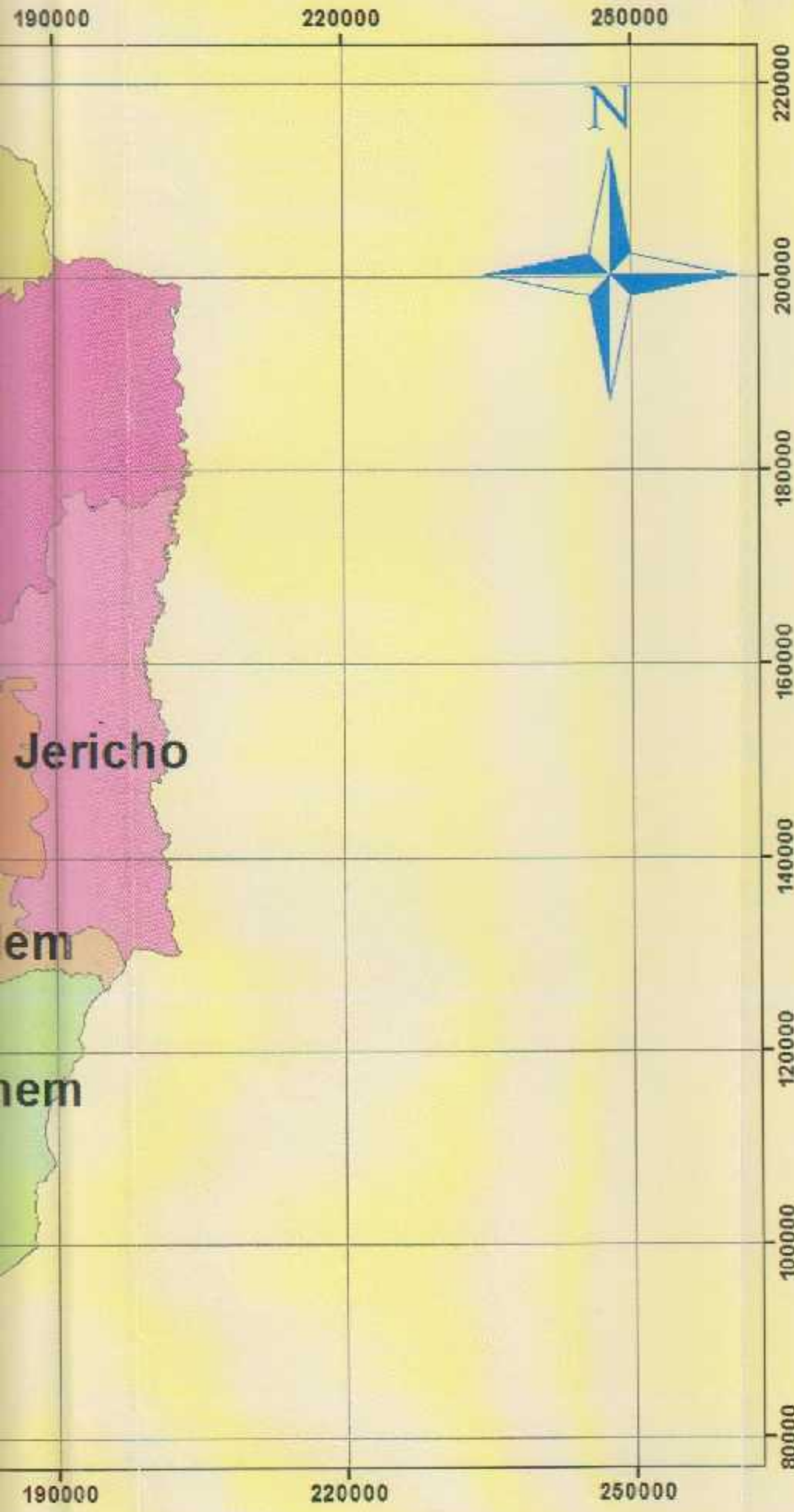


Governorates of the We



the West Bank



Palestine Polytechnic University
 College of Engineering and Technology
 Department Civil Engineering and Architecture

Legend

districts

AREA

350.88
353.036
549.507
608.854
643.069
808.932
1041.002
1290.343

Project Title
 Infrastructure Evaluation
 Of The Hebron Old City
 and Re-Design part

Supervised by:-
 Eng.Samah AL-Jaba
Prepared by :-
 Nabeela Taqatqa
 Wasem Slalbe
 Nidaa Zeidat
 Ramzi Dweik
 Rania Abu Haltam
 Mohamed AL-Aqam
 Hadeel AL-Dawada

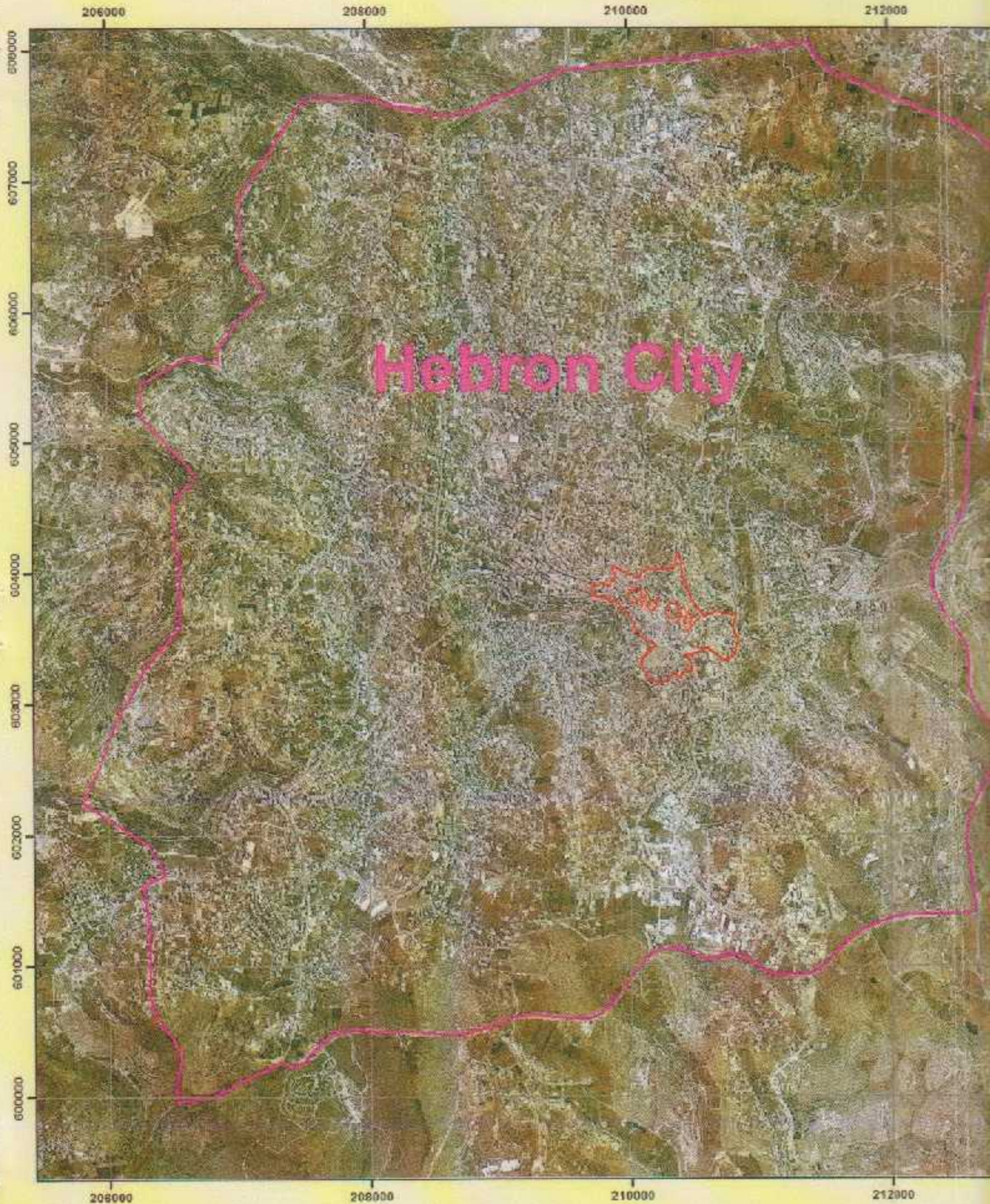


Coordinate System: Israel TM 010
 Projection: Transverse Mercator
 Datum: WGS84
 False Easting: 219 500 8040
 False Northing: 858 807 5300
 Central Meridian: 35 30 48
 Scale Factor: 1 0000
 Latitude Of Origin: 31 73 44
 Unit: Meter

80 000 Meters 1:585,000

Number of fig. 2.1

Old City in Hebron


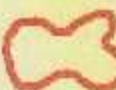


Hebron



Palestine Polytechnic University
College of Engineering and Technology
Department Civil Engineering and Architecture

Legend

-  Hebron city
-  Old City

Project Title
Infrastructure Evaluation
Of The Hebron Old City
and Re-Design part of

Supervised by :-
Eng. Samah AL-Jabareh
Prepared by :-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeldat
Ramzi Dweik
Rania Abu Haltam
Mohameed AL-Aqam
Hadeel AL-Dawada

Coordinate System: Israel T.M. 80
Projection: Transverse Mercator
Datum: Israel
False Easting: 219 529 554.0
False Northing: 606 907 360.0
Central Meridian: 34 20 48
Scale Factor: 1.0000
Latitude Of Origin: 31 73 44
Units: Meter



4 000 Meters 1:35,000

Number of fig. 2.2

159212 04408



159212
102658



104408
161312



Palestine Polytechnic University

College of Engineering and Technology
Civil & Architecture Engineering Department

Project Title
Infrastructure Evaluation of the Hebron Old City and Re-Design part of it



DRAWING TITLE :
Hebron old city neighborhoods

Supervisor : *Eng. Samah Jabari*

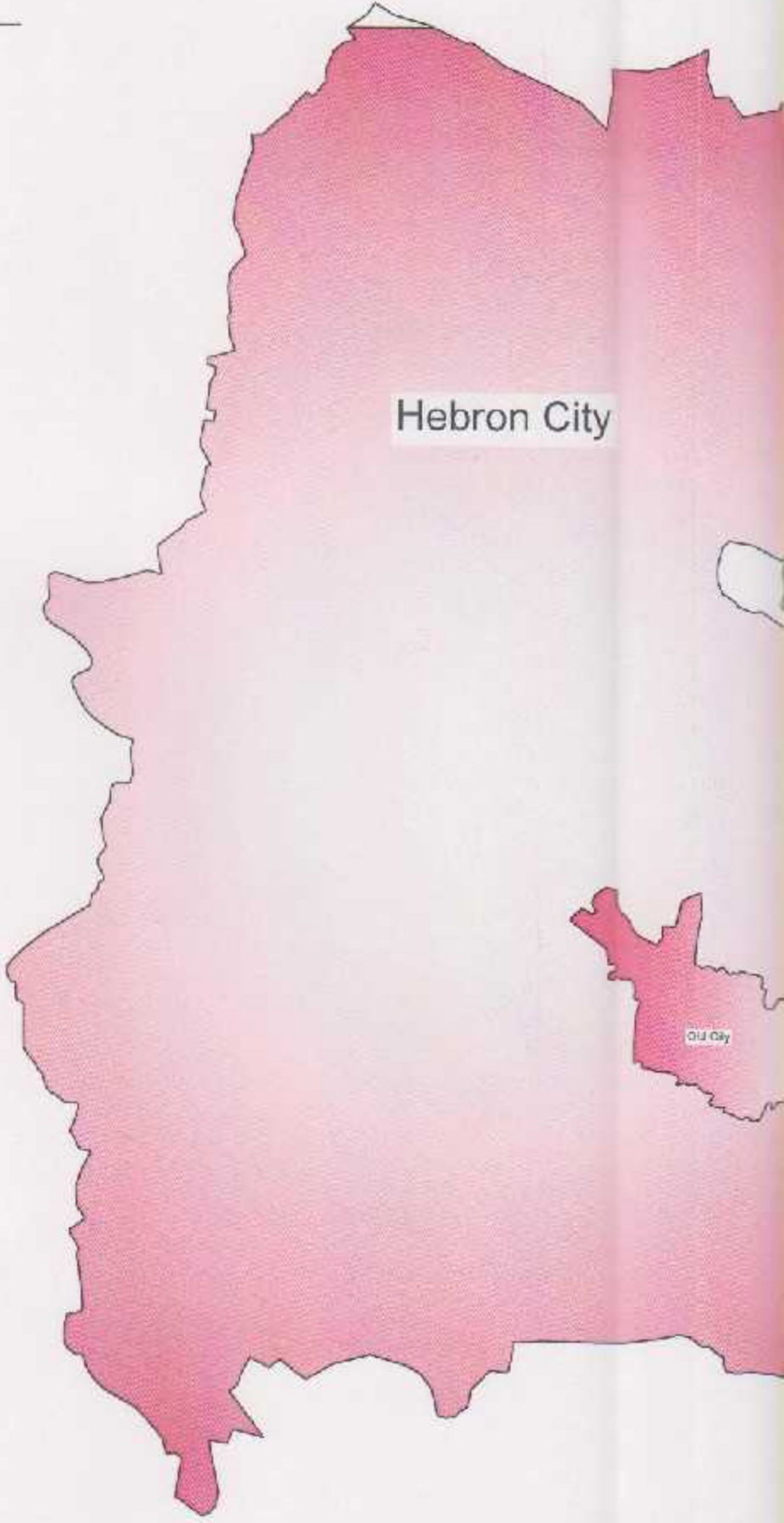
Designed by :

- Nabeela Taqatqa
- Waseem Slabi
- Ramzi Dweik
- Mohammed Alqam
- Rania Abu Haltam
- Hadeel Dawdeh
- Nidaa Zidat

SCALE	NO. OF fig.	DATE
1:300	2,3	25/8/2014

102658
161312

156000 108000



Hebron City

Old City

156000 101200



108000
154000

101000
164000



Palestine Polytechnic University

College of Engineering and Technology
Civil & Architecture Engineering Department

Project Title
Infrastructure Rehabilitation of the Historic Old City and Re-Design part of it



DRAWING TITLE :
location the old city

Supervisor : *Eng. Samah Jabari*

Designed by :
Nabeela Taqatqa
Waseem Slabi
Ramzi Dweik
Mohammed Alqam
Nidaa Zidat
Rania Abu Haltam
Hadeel Dawdch

SCALE	NO. OF fig.	DATE
1:300	3.1	26/6/2014

Old City in Hebron

209800

210100

210400

Bab Alzawia

Old City

209800

210100

210400

0

150

300

600

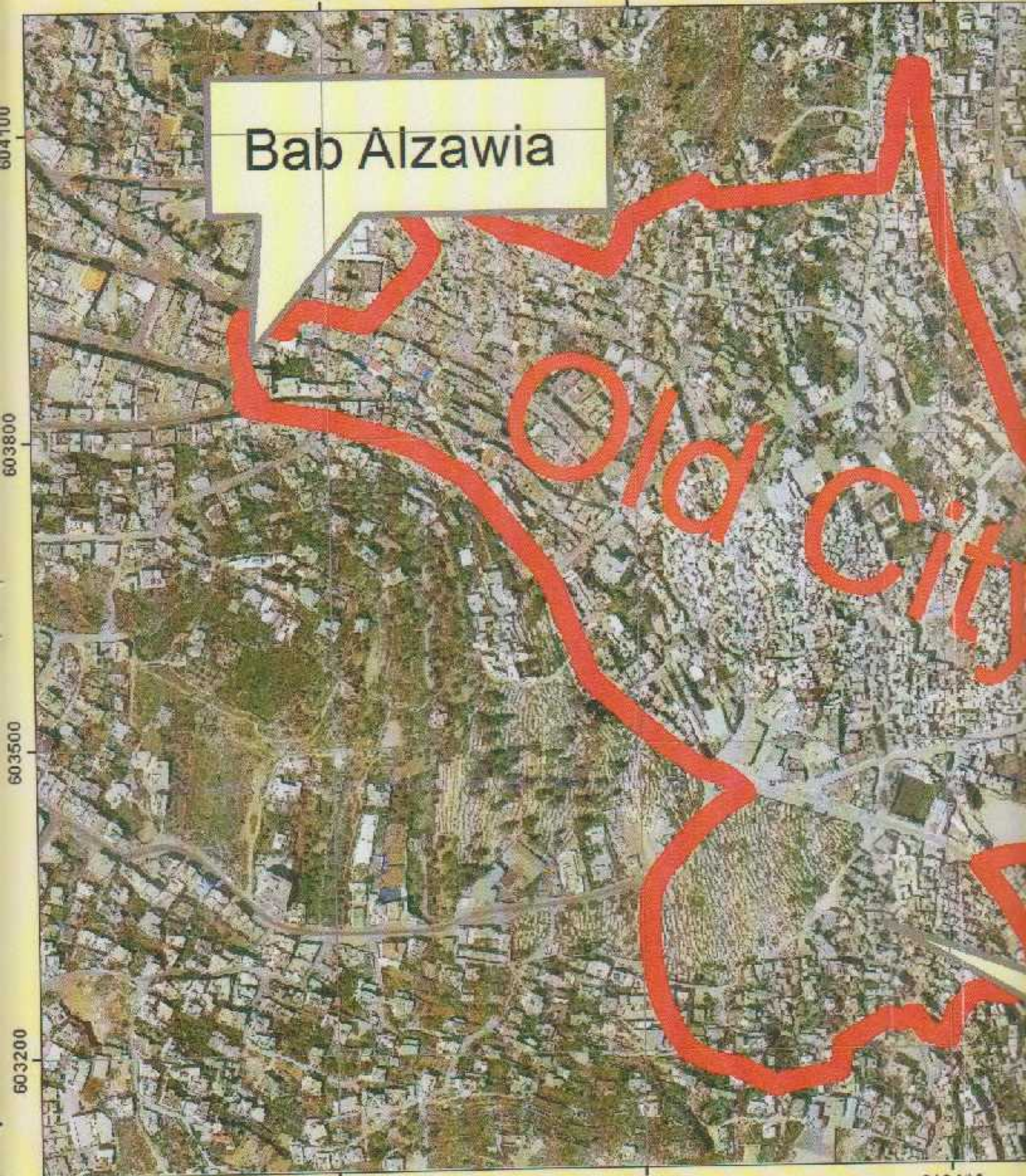
Meter

604100

603800

603500

603200

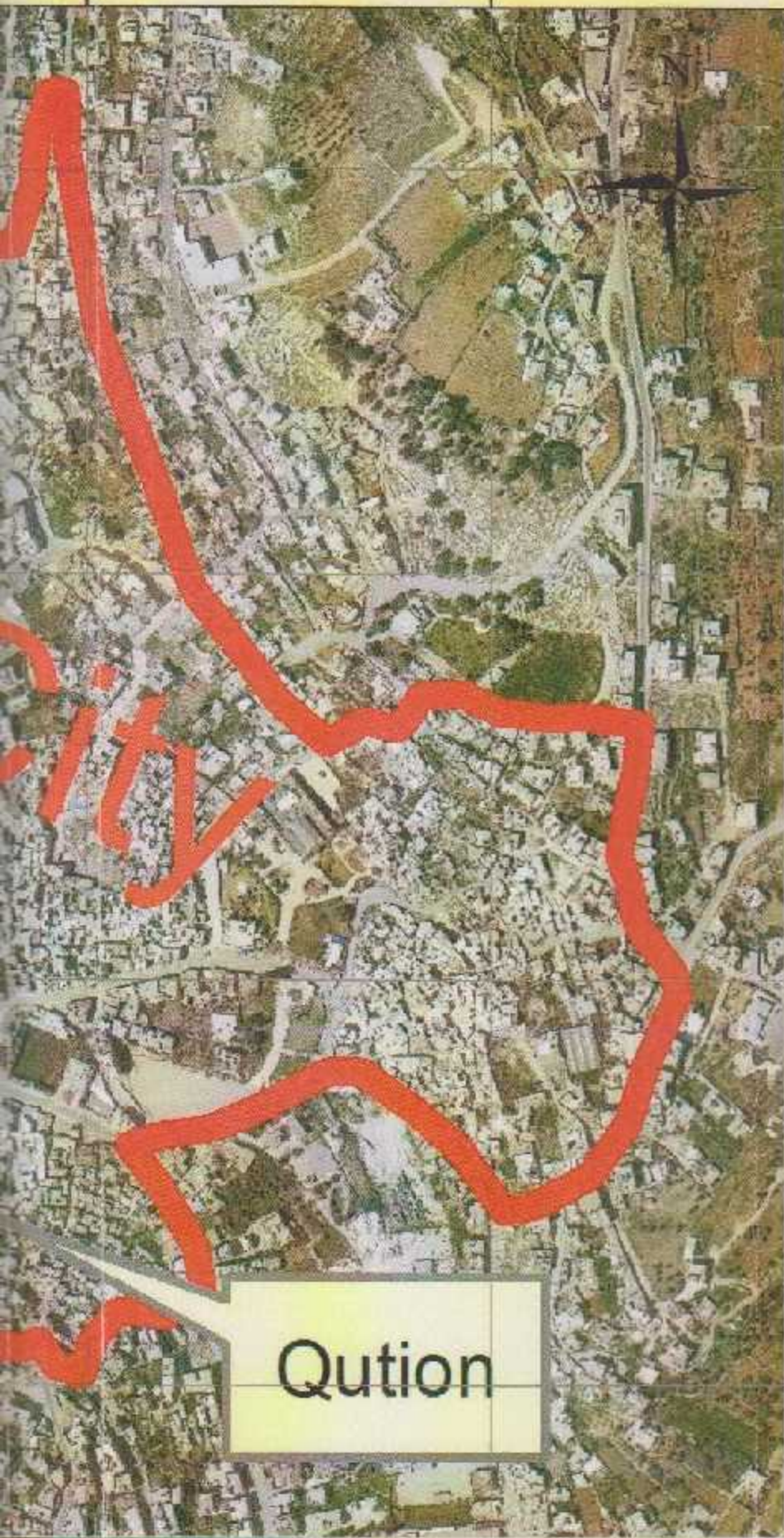


210400

210700



Palestine Polytechnic University
 College of Engineering and Technology
 Department Civil Engineering and Architecture



Legend

Old City

Project Title
 Infrastructure Evaluation
 Of The Hebron Old City
 and Re-Design part of

Supervised by:-
 Eng. Samah AL-Jabare.
Prepared by :-
 Nabeela Taqatqa
 Wasem Slaibe
 Nidaa Zeidat
 Ramzi Dweik
 Rania Abu Haltam
 Mohameed AL-Aqam
 Hadeel AL-Dawada

Coordinate System: UTM
 Projection: Transverse Mercator
 Datum: WGS84
 False Easting: 500,000.0000
 False Northing: 603,300.0000
 Central Meridian: 34.5000
 Scale Factor: 1.0000
 Latitude Of Origin: 31.7344
 UTM Zone: 32N

Qution

210400

210700

603200

603500

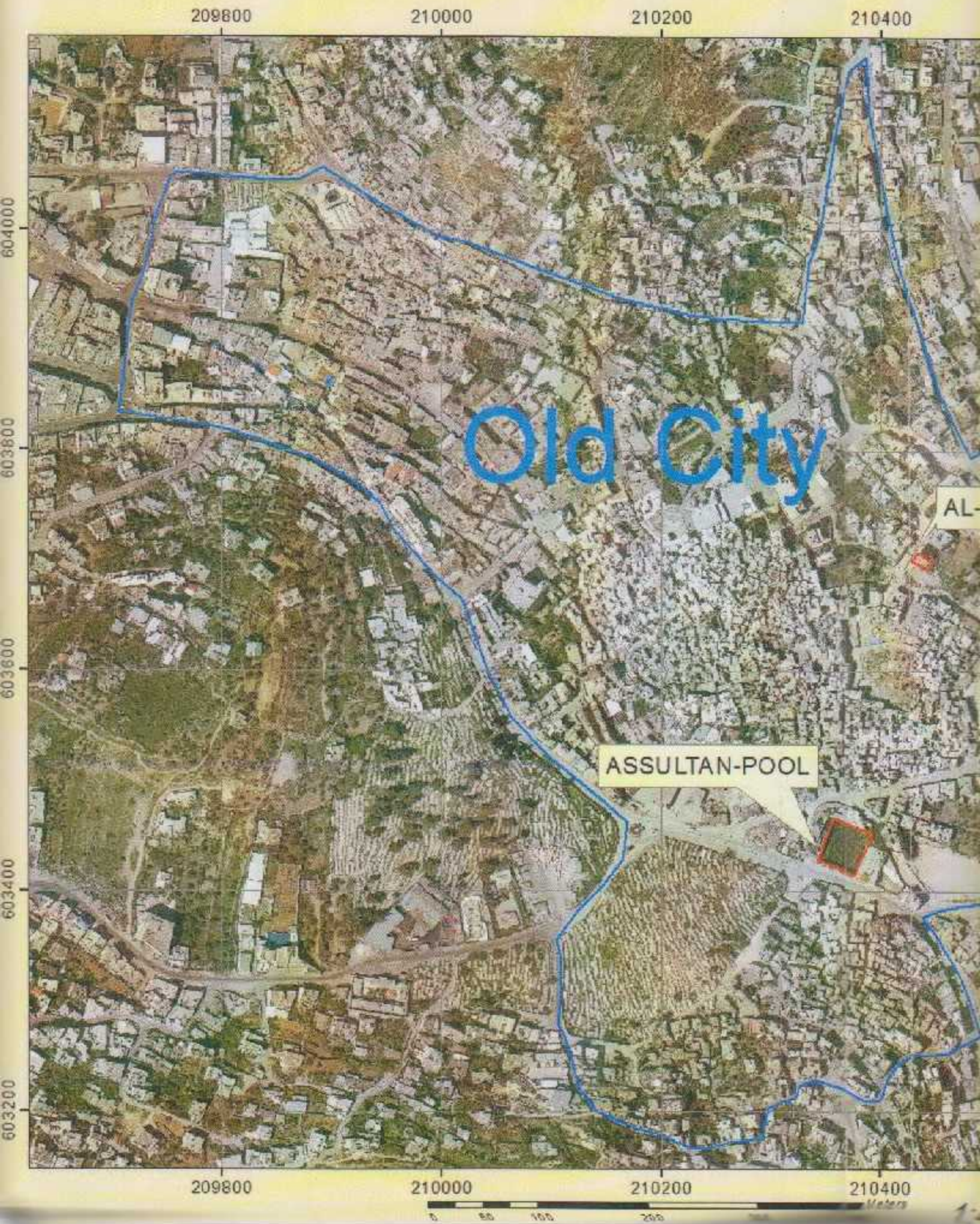
603800

604100

1:4,500



Archaeological and Historical



209800

210000

210200

210400

604000

603800

603600

603400

603200

209800

210000

210200

210400

0 50 100 200 Meters

AL-

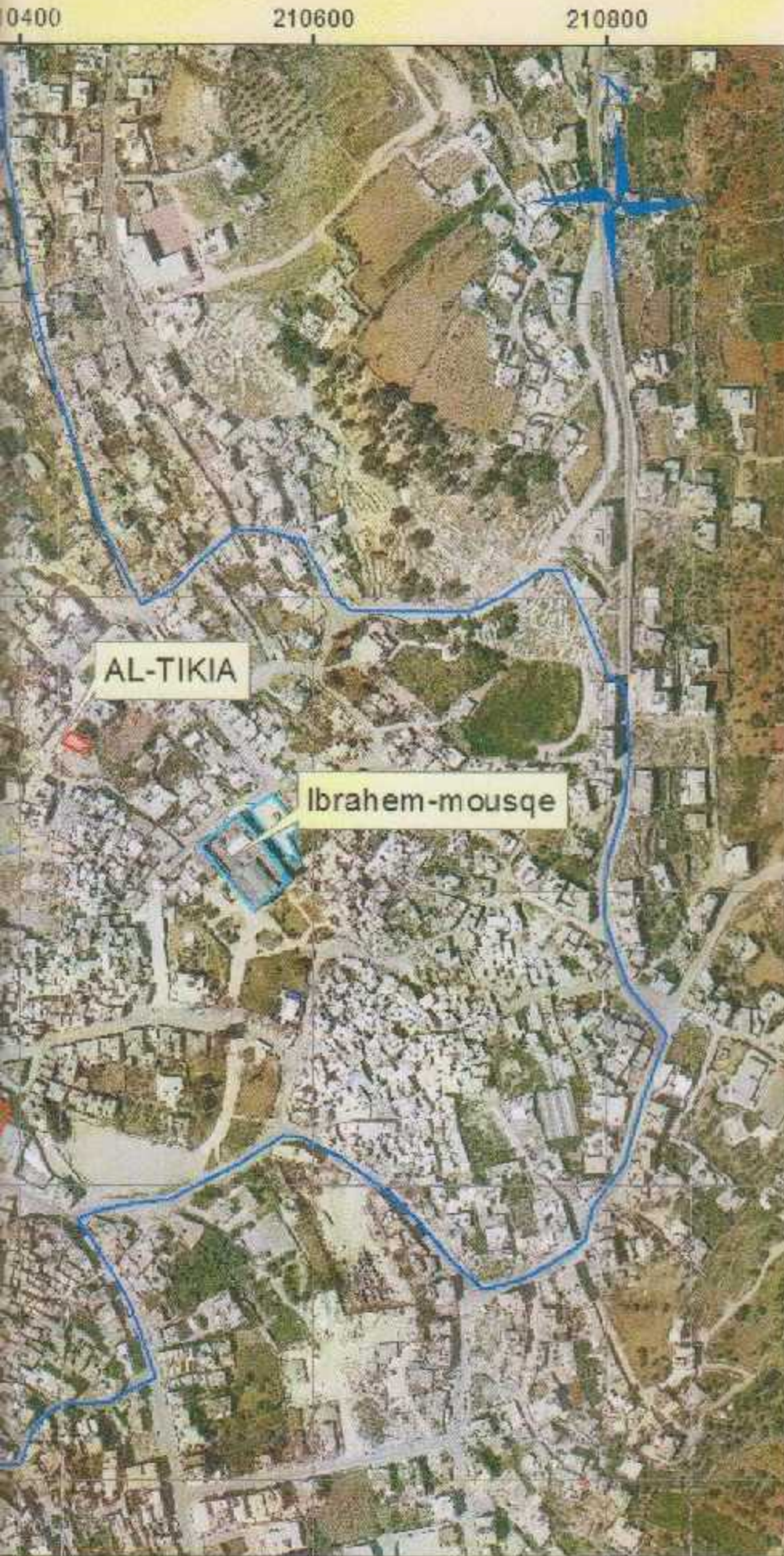
ASSULTAN-POOL

Old City


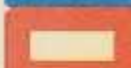


Historical Sites



Palestine Polytechnic University
College of Engineering & Technology
Department of Civil Engineering and Architecture



Legend

-  Old-City
-  ASSULTAN-POOL
-  AL-TIKIA
-  Ibrahem-mousqe

Project Title
Infrastructure Evaluation
Of The Hebron Old City
and Re-Design part of

Supervised by:-
Eng. Samah AL-Jabary
Prepared by:-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeedat
Ramzi Dweik
Rania Abu Haltam
Mohameed Alqam
Hadeel AL-Dawda

Coordinate System: Israel TM Grid
Projection: Transverse Mercator
Datum: Israel
False Easting: 219 808 8810
False Northing: 626 907 3900
Central Meridian: 33 30 45
Scale Factor: 1.0000
Latitude Of Origin: 31 12 44
Units: Meter



1:4,000

Number of Fig. 3.3

Boundary of Old C

209500

210000

210500

211000

Bab
Alzawia

Old City

shuhadaa street

Al fahes

209500

210000

210500

211000

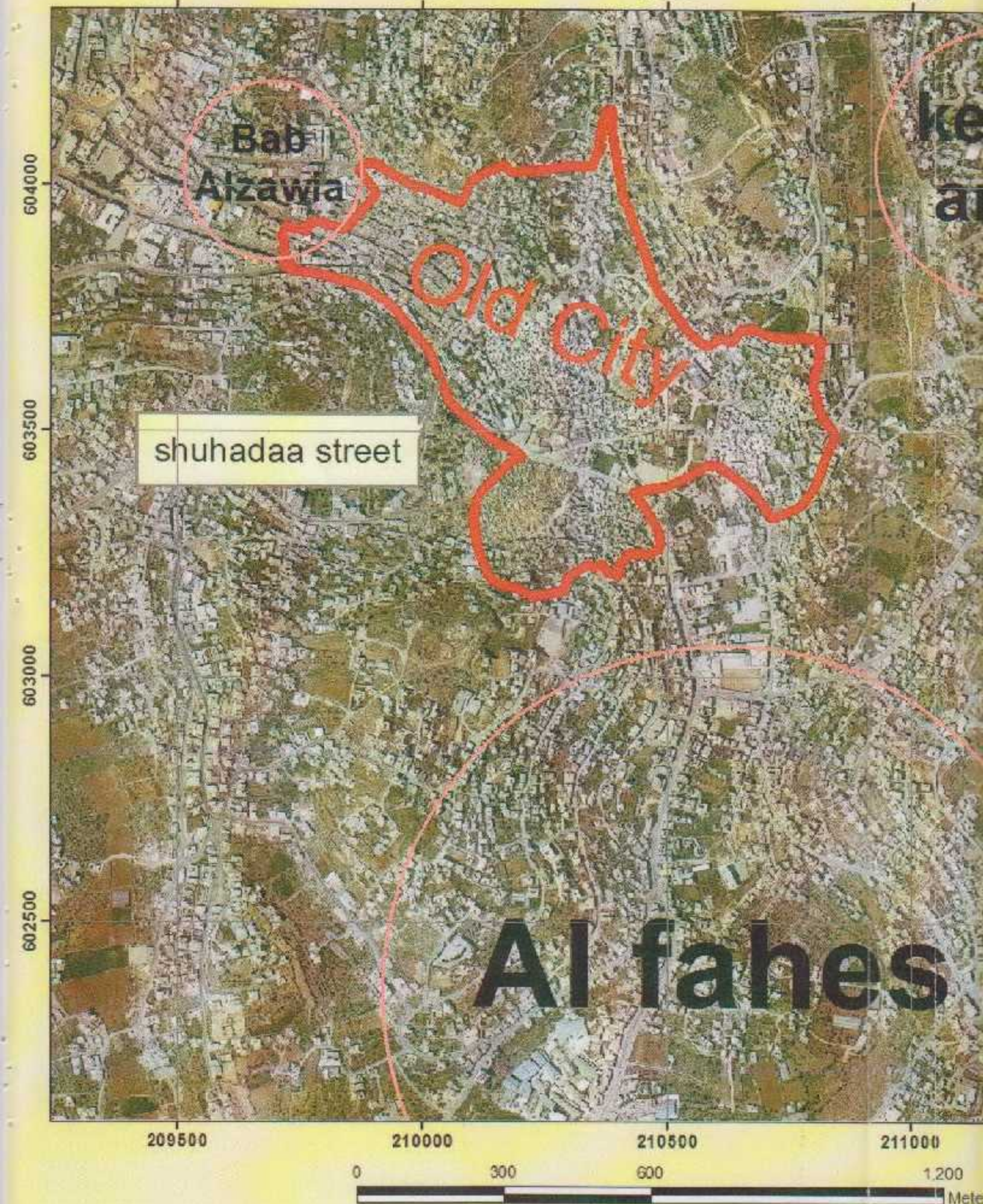
0

300

600

1,200

Mete



Old City

211000

211500

212000



keryat
arbaa

604000

603500

603000

602500

211000

211500

212000

1,200

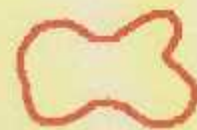
Meters

1:9,000



Palestine Polytechnic University
College of Engineering and Technology
Department Civil Engineering and Architect

Legend



Old City

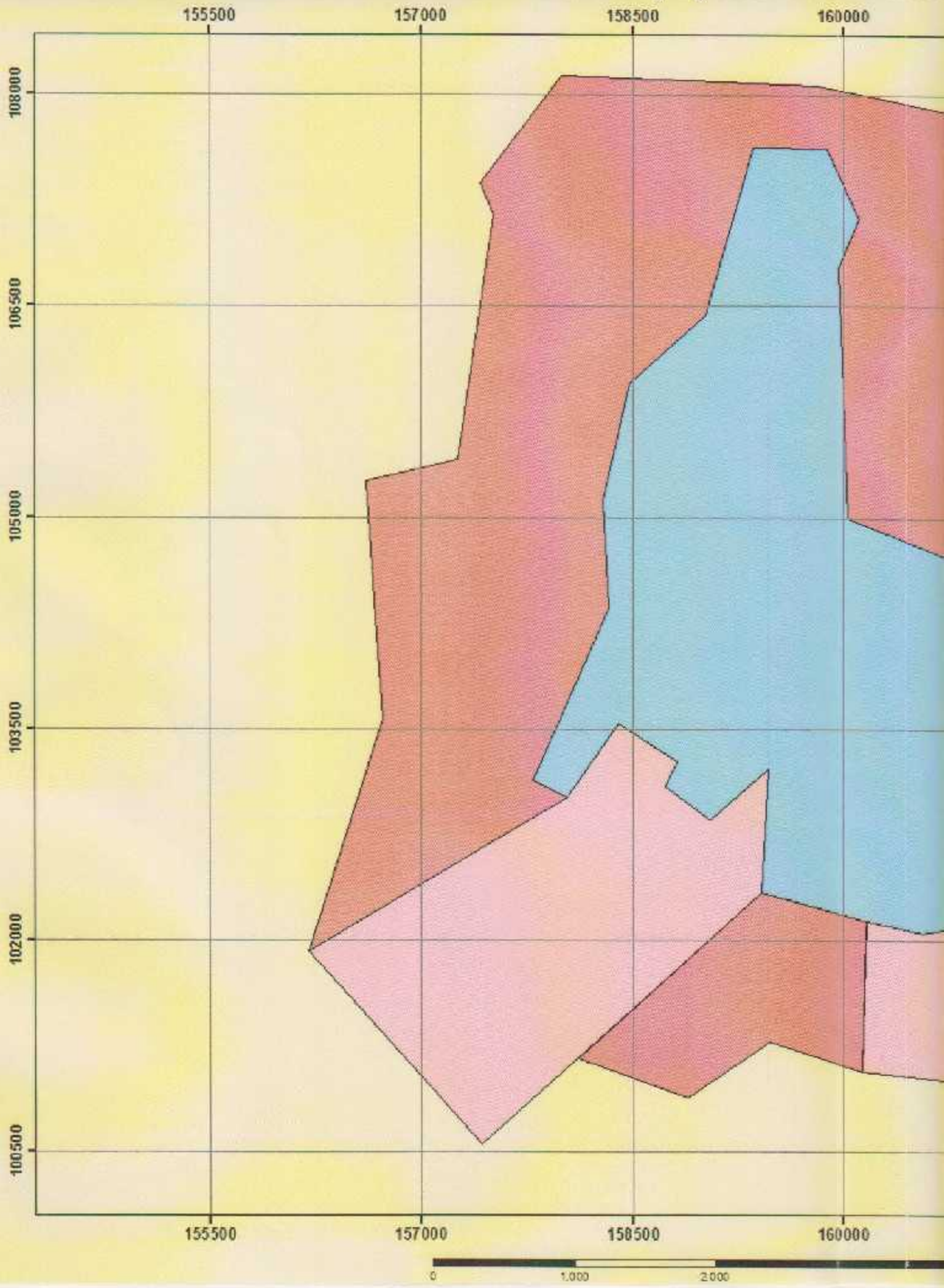
Project Title
Infra structure Evaluation
The Hebron Old City
and Re-Design part of

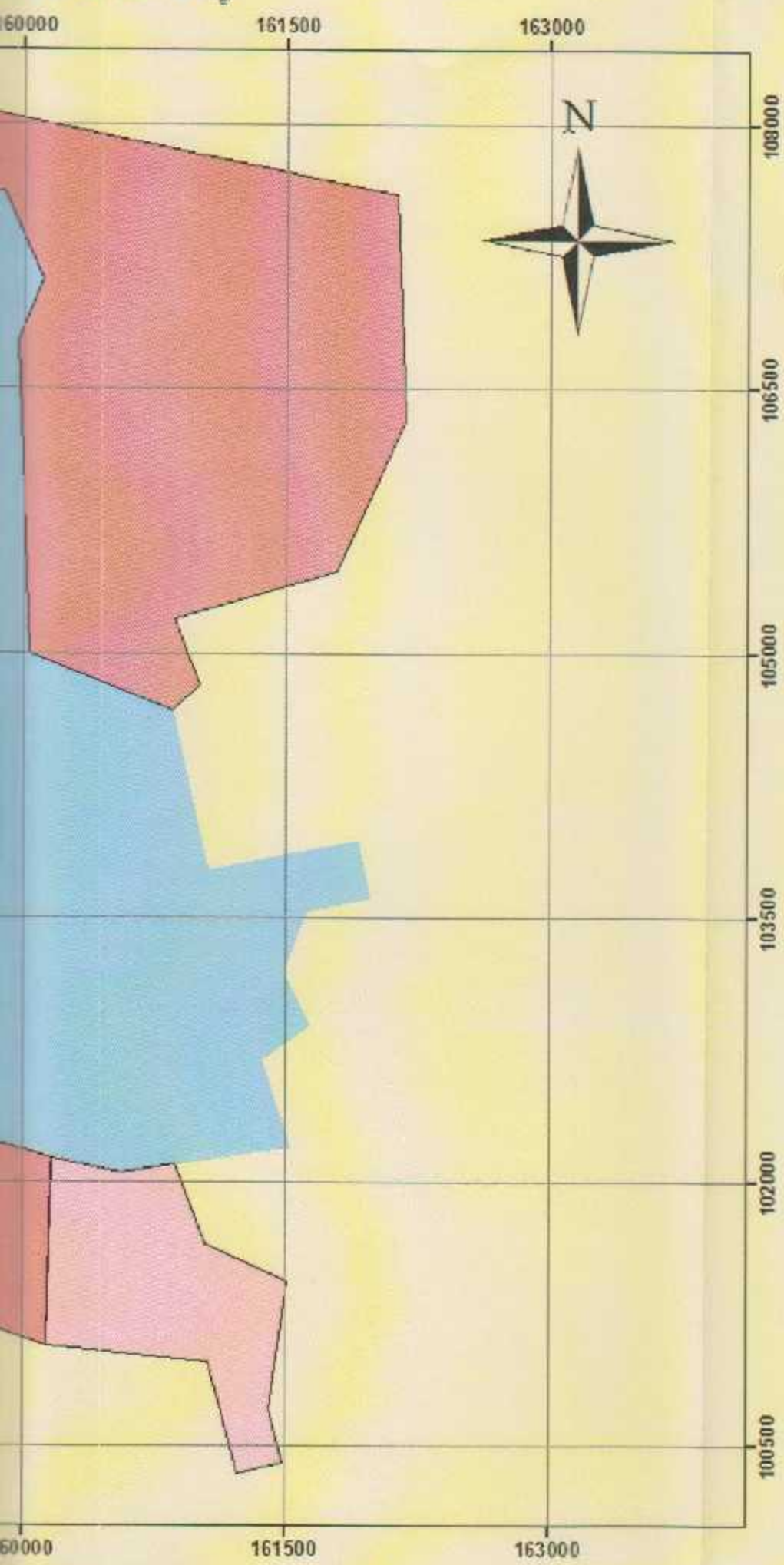
Supervised by:-
Eng.Samah AL-Jabare.
Prepared by :-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeidat
Ramzi Dweik
Rania Abu Haktan
Mohameed AL-Aqam
Hadeel AL-Dawada

Coordinate System: UTM
Projection: Transverse Mercator
Datum: WGS
False Easting: 219,519,600
False Northing: 624,907,300
Central Meridian: 35,0045
Scale Factor: 1,0000
Latitude Of Origin: 31,7344
Units: Meter



Densities of population of Old





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 College of Engineering and Technology
 Department Civil Engineering and Architecture

Legend

Densities-of-population type

- height densities
- low densities
- midle densities

Project Title
 Infrastructure Evaluation Of
 The Hebron Old City
 and Re-Design part of

Supervised by :-
 Eng.Samah AL-Jabare
 Prepared by :-
 Nabeela Taqatqa
 Wasem Slaibe
 Nidaa Zeidan
 Ramzi Dweik
 Rania Abu Haltam
 Mohamed AL-Aqam
 Hadeel AL-Dawada

Coordinates: UTM
 Projection: UTM
 Datum: Palestine 1920
 False Easting: 170,001,000
 False Northing: 100,001,000
 Central Meridian: 23.5 E
 Scale Factor: 1.000
 Units: Meters
 Authority: UTM Zone 21, 1347
 Units: Meter



TIN Map of Hebron C

155000

156000

157000

158000

159000

160000

108000

107000

106000

105000

104000

103000

102000

101000

155000

156000

157000

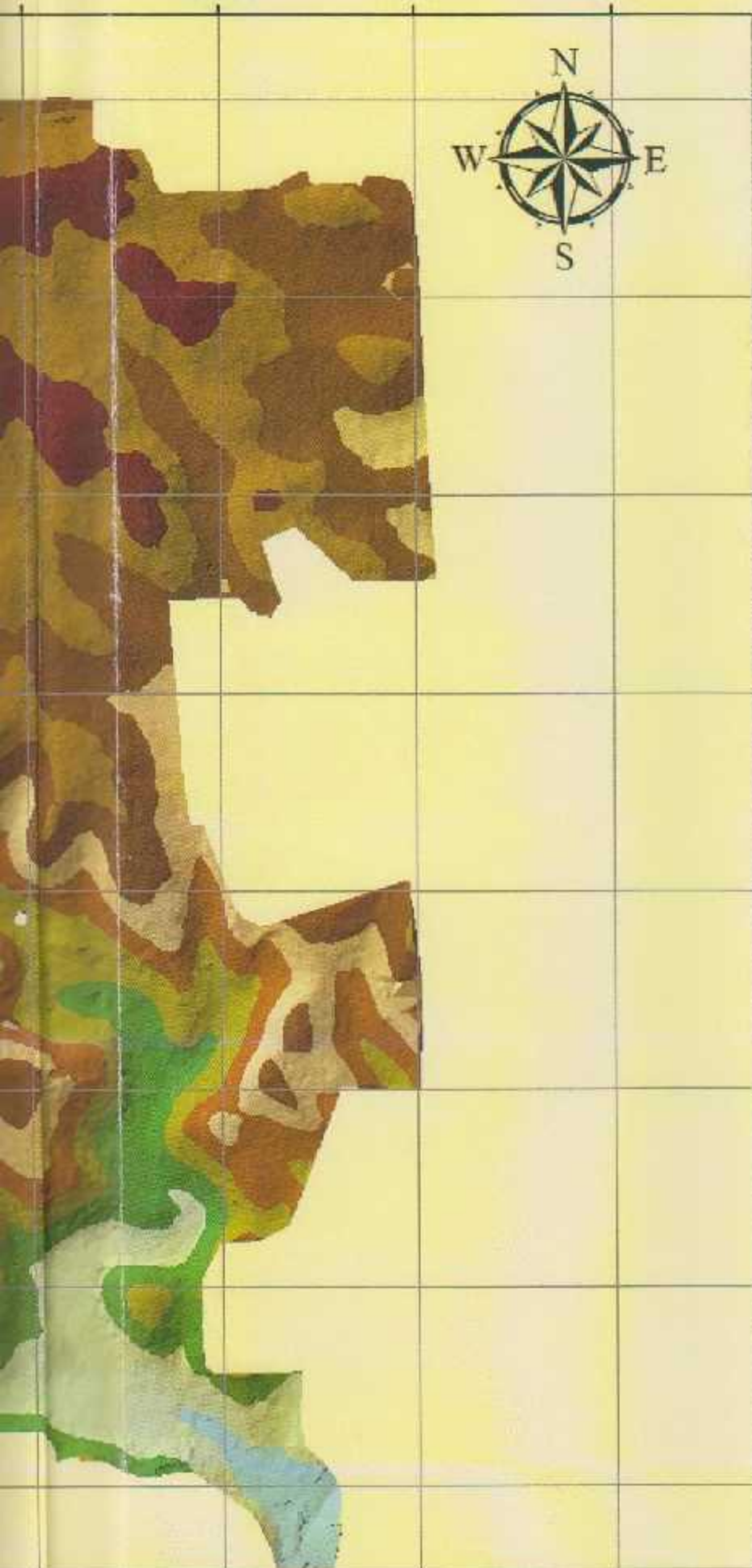
158000

159000

160000



160000 161000 162000 163000



Palestine Polytechnic University
College of Engineering and Technology
Department Civil Engineering and Architecture

Legend

Elevation

992.5 - 1017.5
967.5 - 992.5
942.5 - 967.5
917.5 - 942.5
892.5 - 917.5
867.5 - 892.5
842.5 - 867.5
817.5 - 842.5
792.5 - 817.5

Project Title
Infrastructure Evaluation
Of The Hebron Old City
and Re-Design part of

Supervised by:-
Eng.Samah AL-Jabare.
Prepared by :-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeidat
Ramzi Dweik
Rania Abu Haltam
Mohameed AL-Aqam
Hadeel AL-Dawada

16000 4,000 161000 162000 163000
Meters 1:30,000



DEM Map of Hebron C

155000

156000

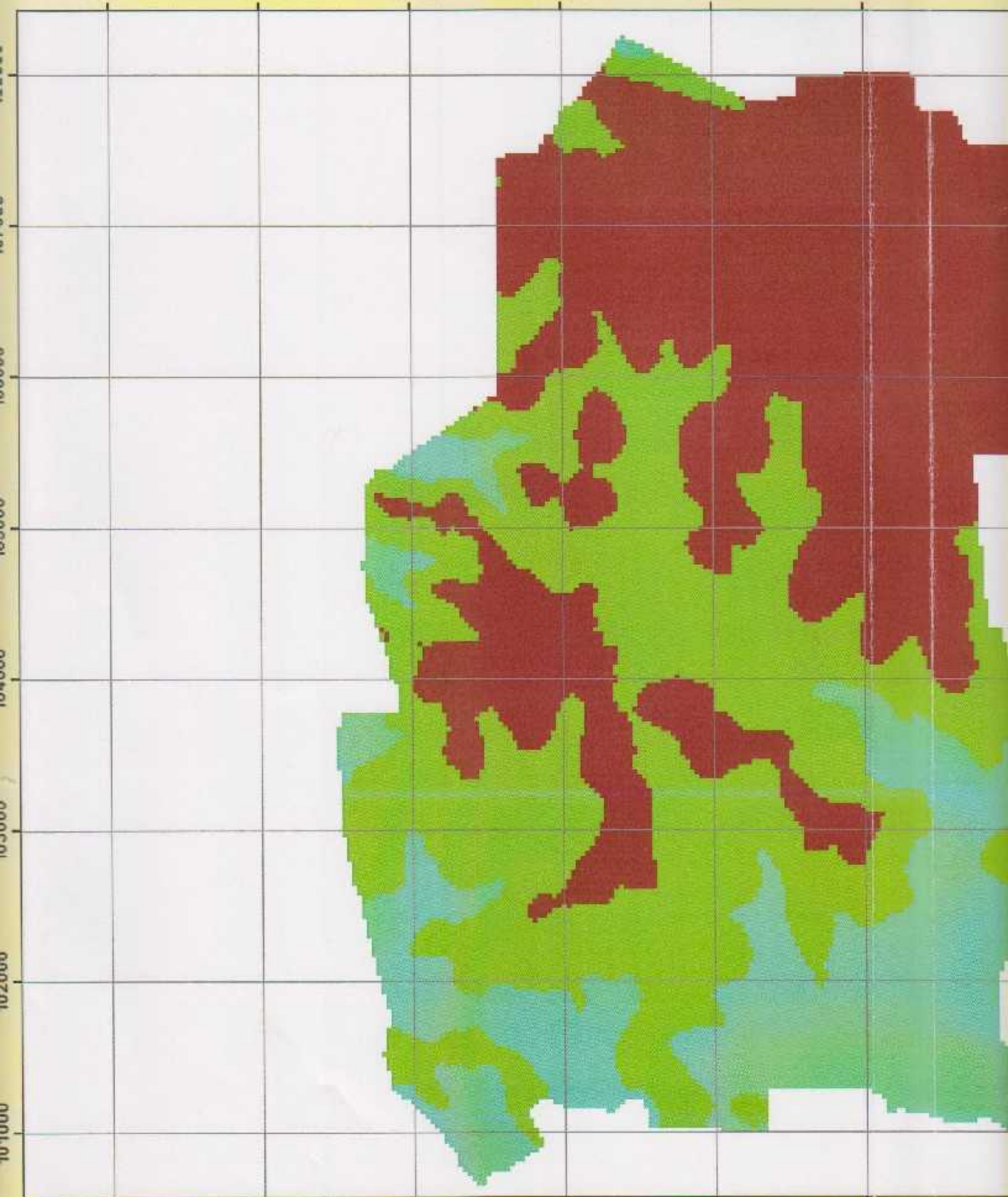
157000

158000

159000

160000

161000



155000

156000

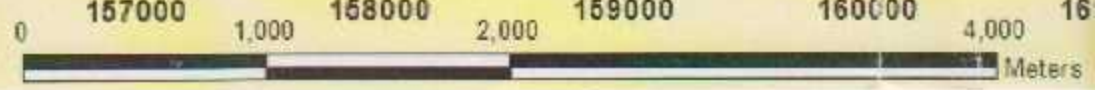
157000

158000

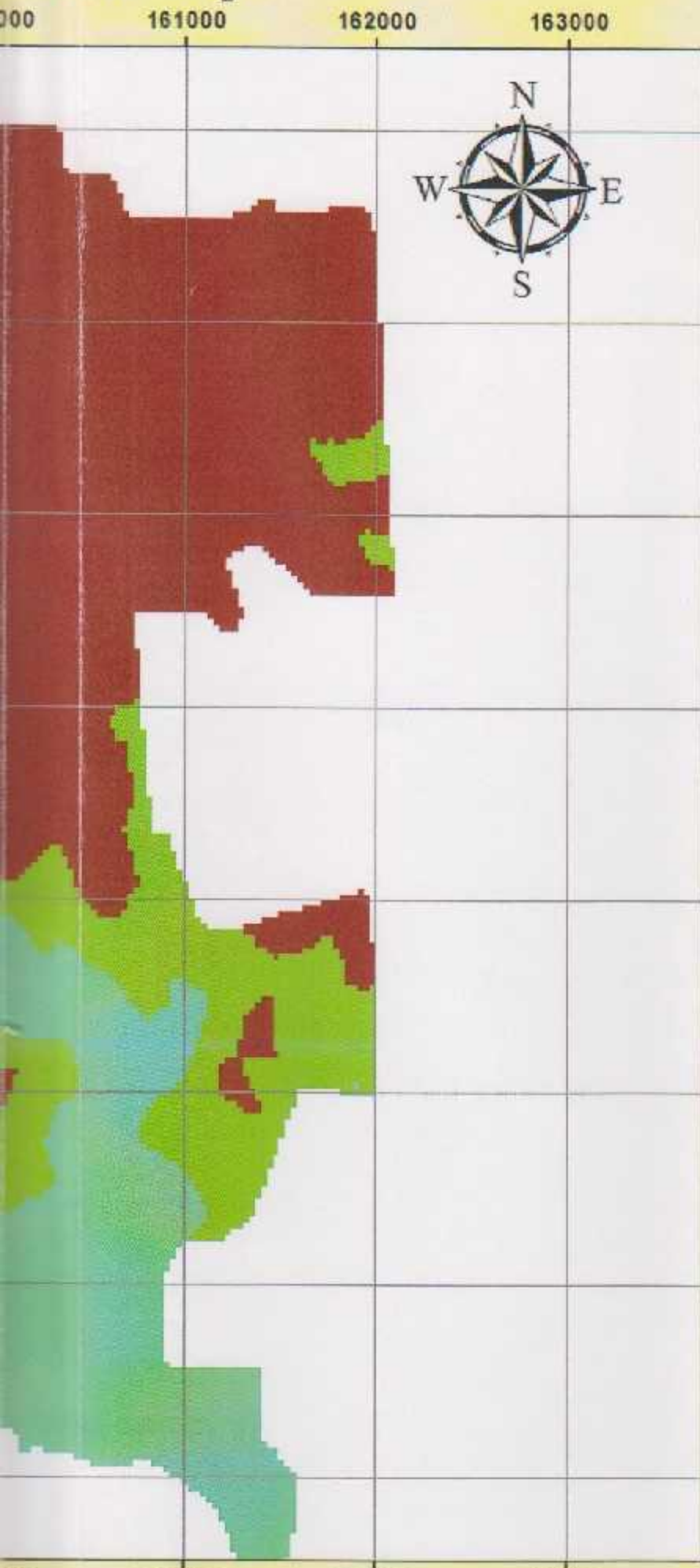
159000

160000

161000



Meters



Palestine Polytechnic University
 College of Engineering and Technology
 Department Civil Engineering and Architecture

Legend

dem

<VALUE>

	792.5 - 883.5
	883.5 - 939
	939 - 1,017.5

Project Title
 Infrastructure Evaluation
 Of The Hebron Old City
 and Re-Design part of

Supervised by:-
 Eng.Samah AL-Jabare.
 Prepared by :-
 Nabeela Taqatqa
 Wasem Slalbe
 Nidaa Zeidat
 Ramzi Dweik
 Rania Abu Haltam
 Mohameed AL-Aqam
 Hadeel AL-Dawada

000 4,000 161000 162000 163000
 Meters 1:30,000



Flowdirection Map of Hebr

155000

156000

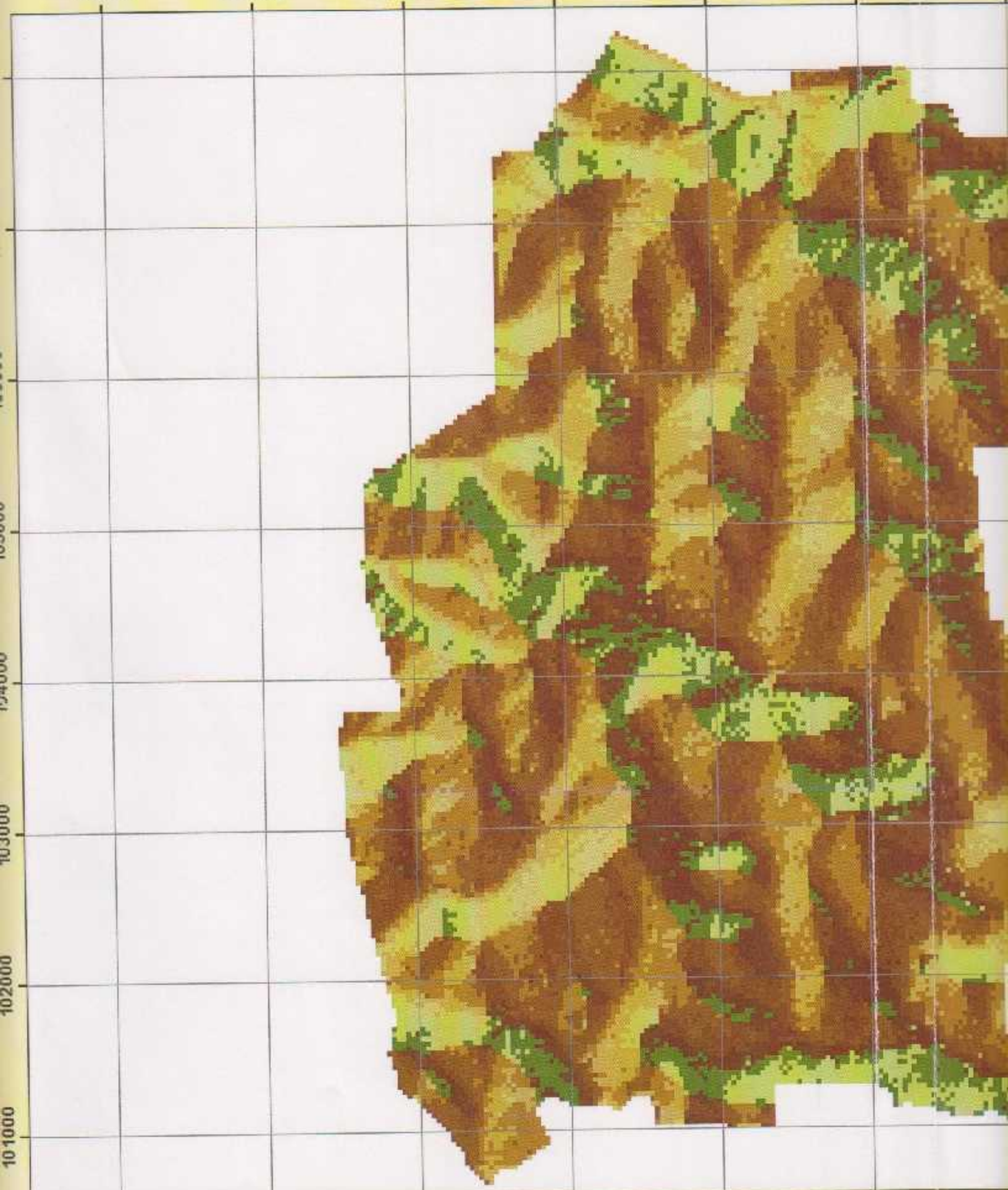
157000

158000

159000

160000

161000



155000

156000

157000

158000

159000

160000

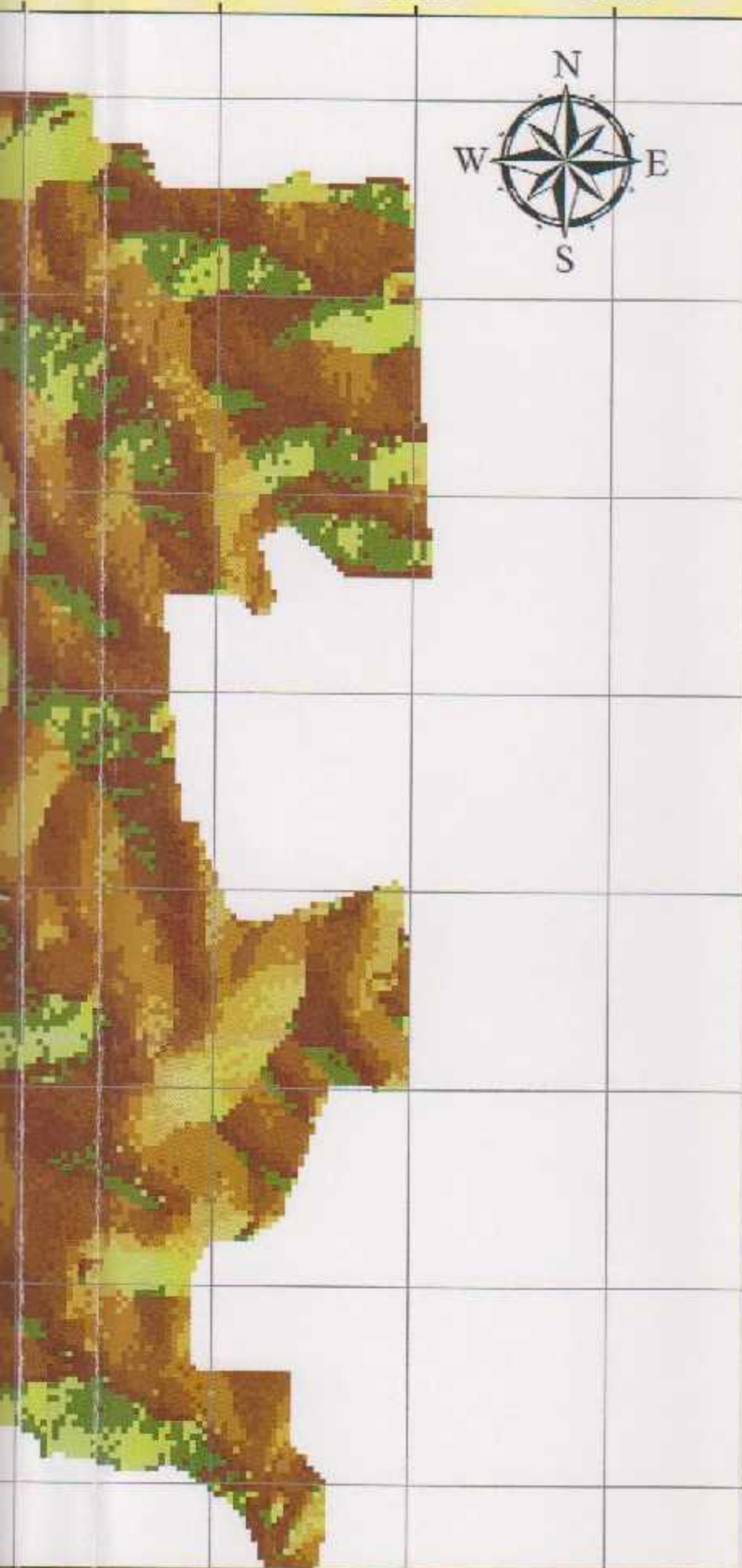
161000



Meters

of Hebron City

160000 161000 162000 163000



Palestine Polytechnic University
 College of Engineering and Technology
 Department Civil Engineering and Architecture

Legend

flowdirection	Value
1	48
2	64
4	65
8	68
8	72
12	80
16	128
32	129
	144

Project Title
 Infrastructure Evaluation
 Of The Hebron Old City
 and Re-Design part of

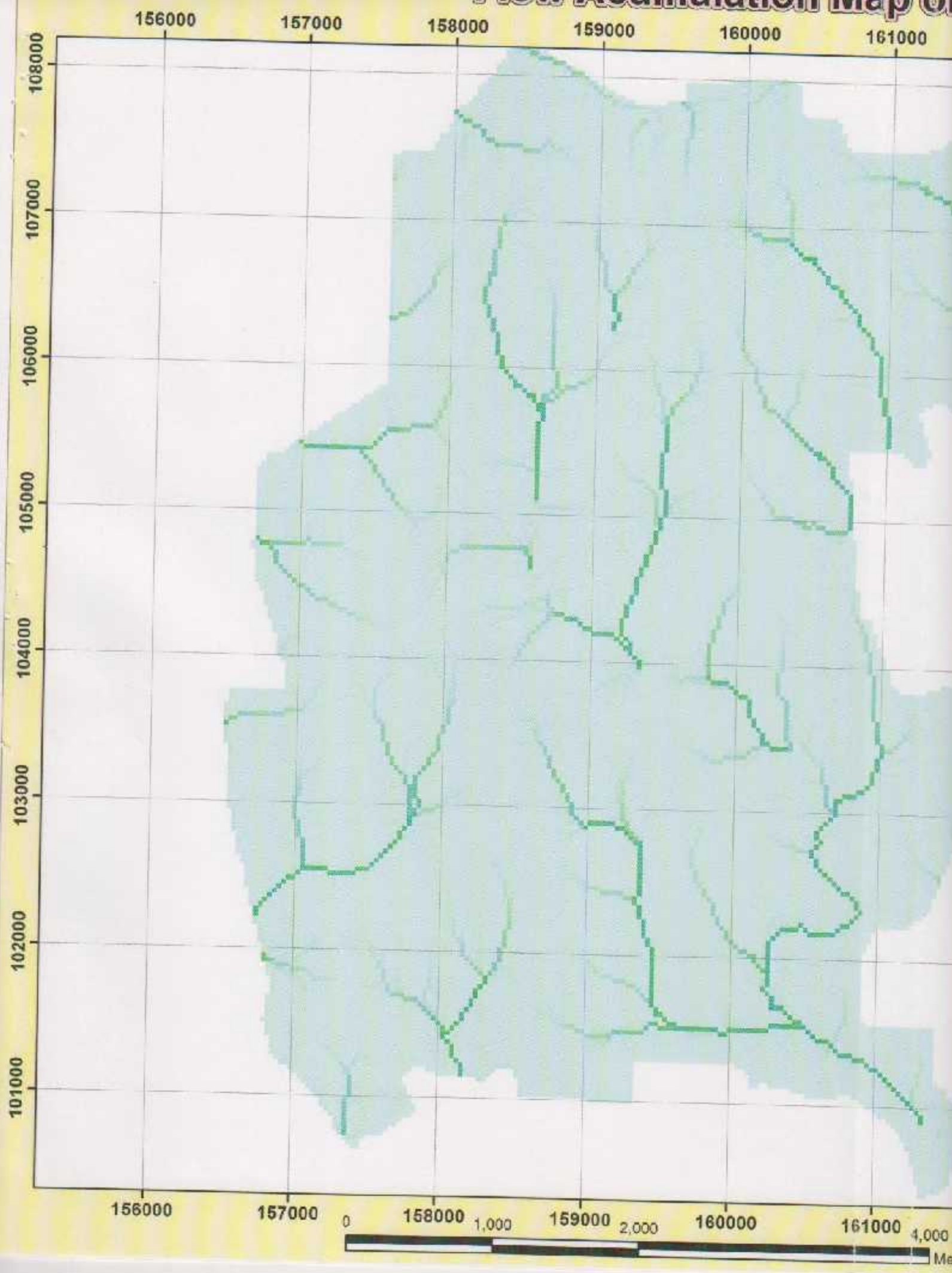
Supervised by :-
 Eng. Samah AL-Jabare.

Prepared by :-
 Nabeela Taqatqa
 Wasem Slaibe
 Nidaa Zeidat
 Ramzi Dweik
 Rania Abu Haltam
 Mohameed AL-Aqam
 Hadeel AL-Dawada

00000 4,000 161000 162000 163000
 Meters 1:30,000

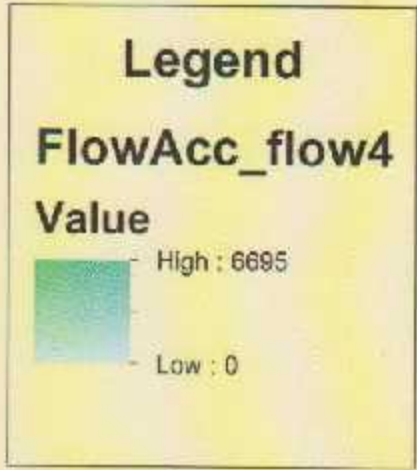


Flow Accumulation Map of





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 College of Engineering and Technology
 Department Civil Engineering and Architecture

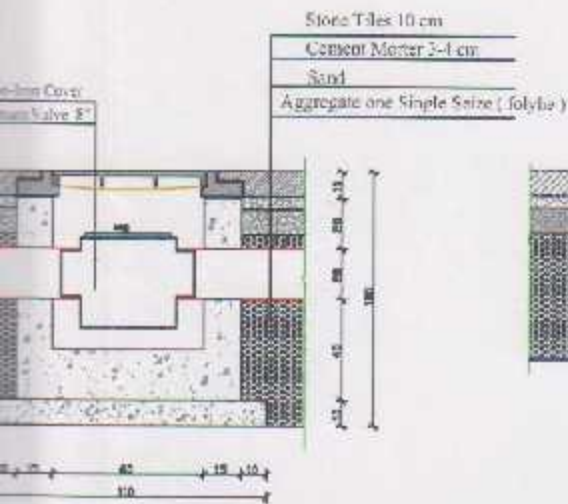


Project Title
Infrastructure Evaluation Of
The Hebron Old City
and Re-Design part of

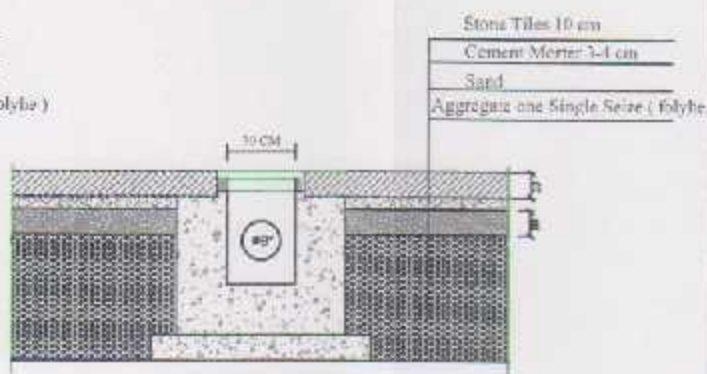
Supervised by:-
Eng.Samah AL-Jabare.
Prepared by :-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeidat
Ramzi Dweik
Rania Abu Haltam
Mohameed AL-Aqam
Hadeel AL-Dawada

000 4,000 162000 163000 164000
 Meters 1:30,000

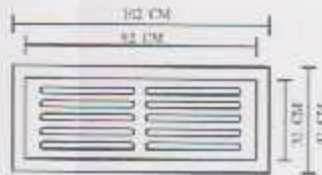




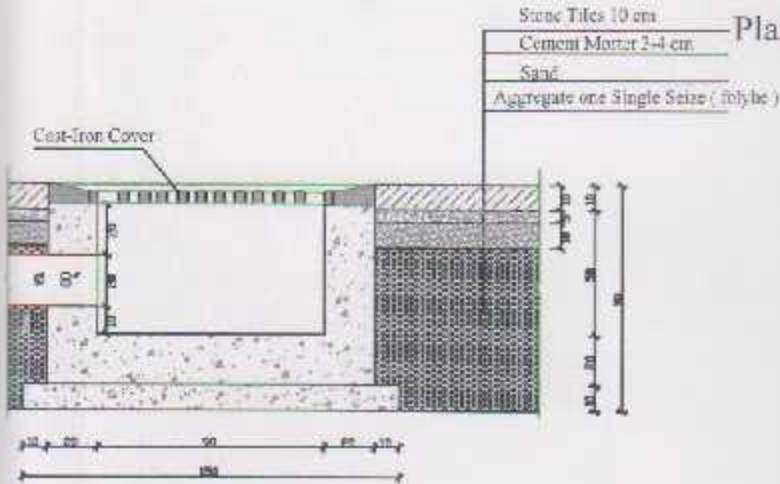
Return Valve Manhole



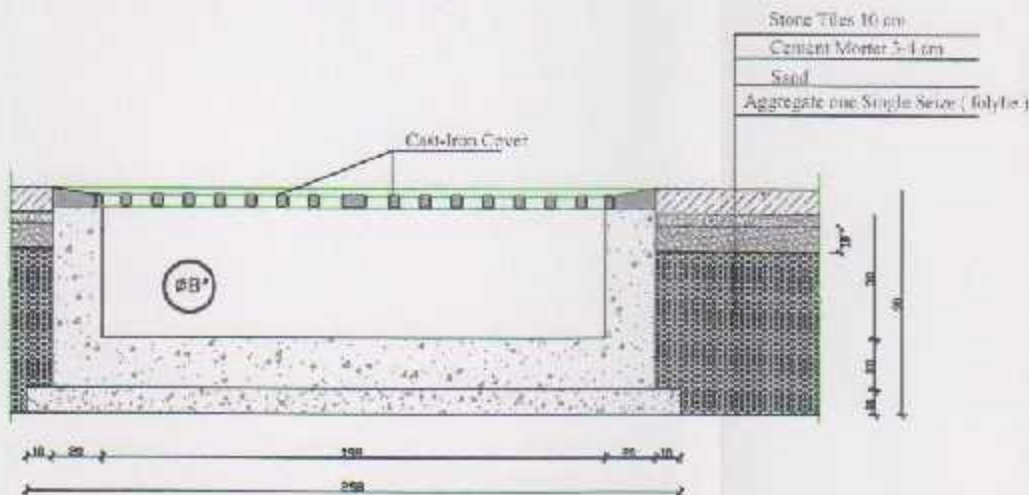
Section For Storm Water Manhole



Plan For Storm Water Manhole



Storm Water Manhole



Section In Double Storm Water Manhole



Palestine Polytechnic University

College of Engineering and Technology
Civil & Architecture Engineering Department

Project Title
Infrastructure Evaluation of the Historic Old City and Re-Design part of it

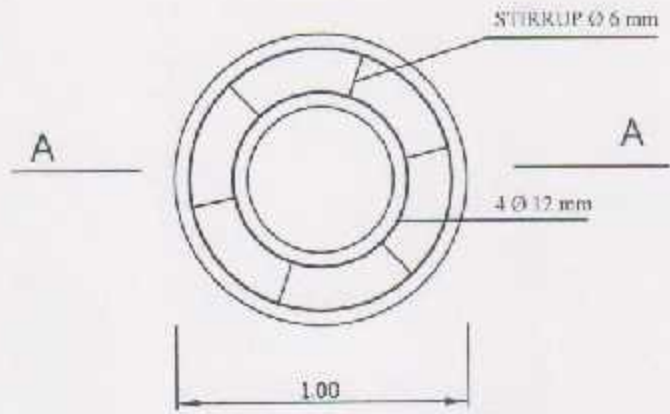


DRAWING TITLE :
profile of Roman Line

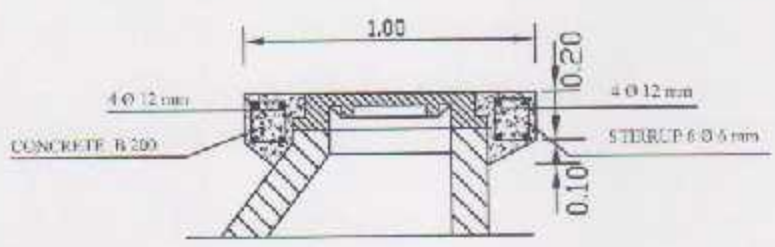
Supervisor : *Eng. Samah Jabari*

Designed by :
Nabeela Taqatqa
Waseem Slabi
Ramzi Dweik
Mohammed Alqam
Nidas Zidat
Rania Abu Haltam
Hadeel Dawdeh

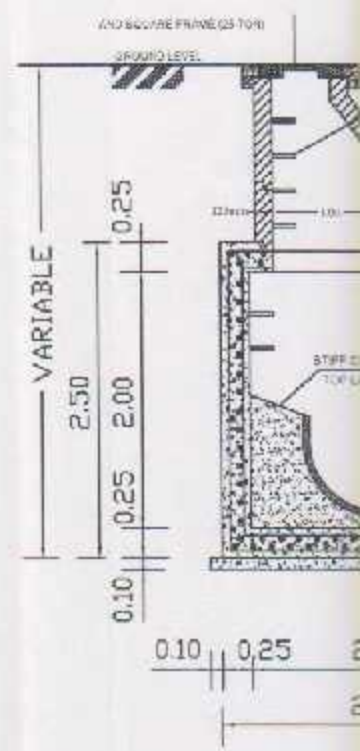
SCALE	NO. OF Sig.	DATE
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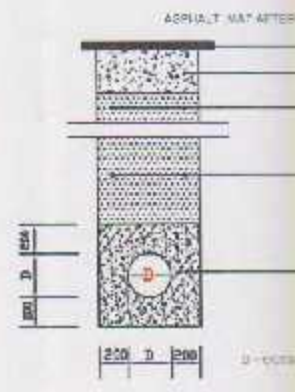
COVER MANHOLE SLAB
SCALE 1:10



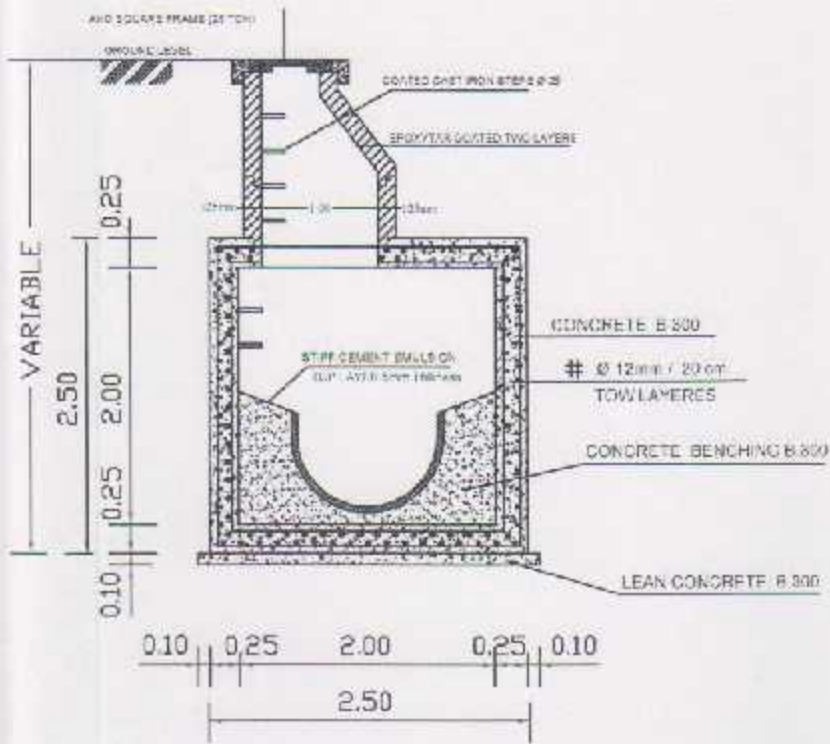
SECTION A - A
SCALE 1:10



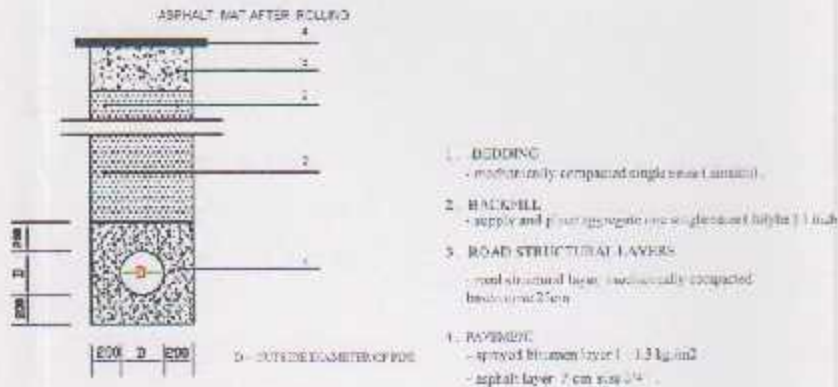
TYPICAL CAST IN SITU CONCRETE FRAME (25 T01)
SCALE 1:10



TYPICAL TRENCH CROSS SECTION OF SEWER PIPE TRENCH
DIMENSIONS IN mm
SCALE 1:20



TYPICAL CAST IN SITU MANHOLE DETAIL
SCALE 1 : 20



TYPICAL TRENCH CROSS SECTION
OF SEWER PIPE TRENCH
DIMENSIONS IN mm

SCALE 1 : 20

1. BEDDING
- mechanically compacted single size (as specified)
2. BACKFILL
- apply and place aggregate over single sized (as specified)
3. ROAD STRUCTURAL LAYERS
- not structural base, mechanically compacted bed (as specified)
4. PAVEMENT
- spread 10mm layer (1.3 kg/m²)
- asphalt layer 7 cm (as specified)



Palestine Polytechnic
University

College of Engineering and
Technology
Civil & Architecture Engineering
Department

Project Title
Infrastructure Rehabilitation of the Old
City and Re-Design part of it



DRAWING TITLE :
Hebron old city
neighborhoods

Supervisor : *Eng. Samah Jabari*

Designed by :
Nabeela Taqatqa
Waseem Slabi
Ramzi Dweik
Mohammed Alqam
Rania Abu Haltam
Hadeel Dawdeh
Nidaa Zidat

SCALE	NO. OF fig.	DATE
1:1000	3.18.b	25/5/2014

Old City

160300 160600 160900



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Department Civil Engineering and Architecture

Legend

- Ibrahem-mosque
- ASSULTAN-POOL
- AL-TIKIA

type

- stones
- brick
- concrete

Project Title
Infrastructure Evaluation
Of The Hebron Old City
and Re-Design part of

Supervised by:-
Eng.Samah AL-Jabare.
Prepared by :-
Nabeela Taqatqa
Wasem Slaibe
Nidaa Zeidat
Ramzi Dweik
Rania Abu Haltam
Mohameed AL-Aqam
Hadeel AL-Dawada

Coordinate System: Palestine 1923 Palestine D
Projection: Cassini
Datum: Palestine 1923
false easting: 170,001,5550
false northing: 104,007,8050
central meridian: 35.2121
scale factor: 1.0000
altitude of origin: 31,7541
Units: Meter



800 Meters 1:5,000

Number of fig. 3.19