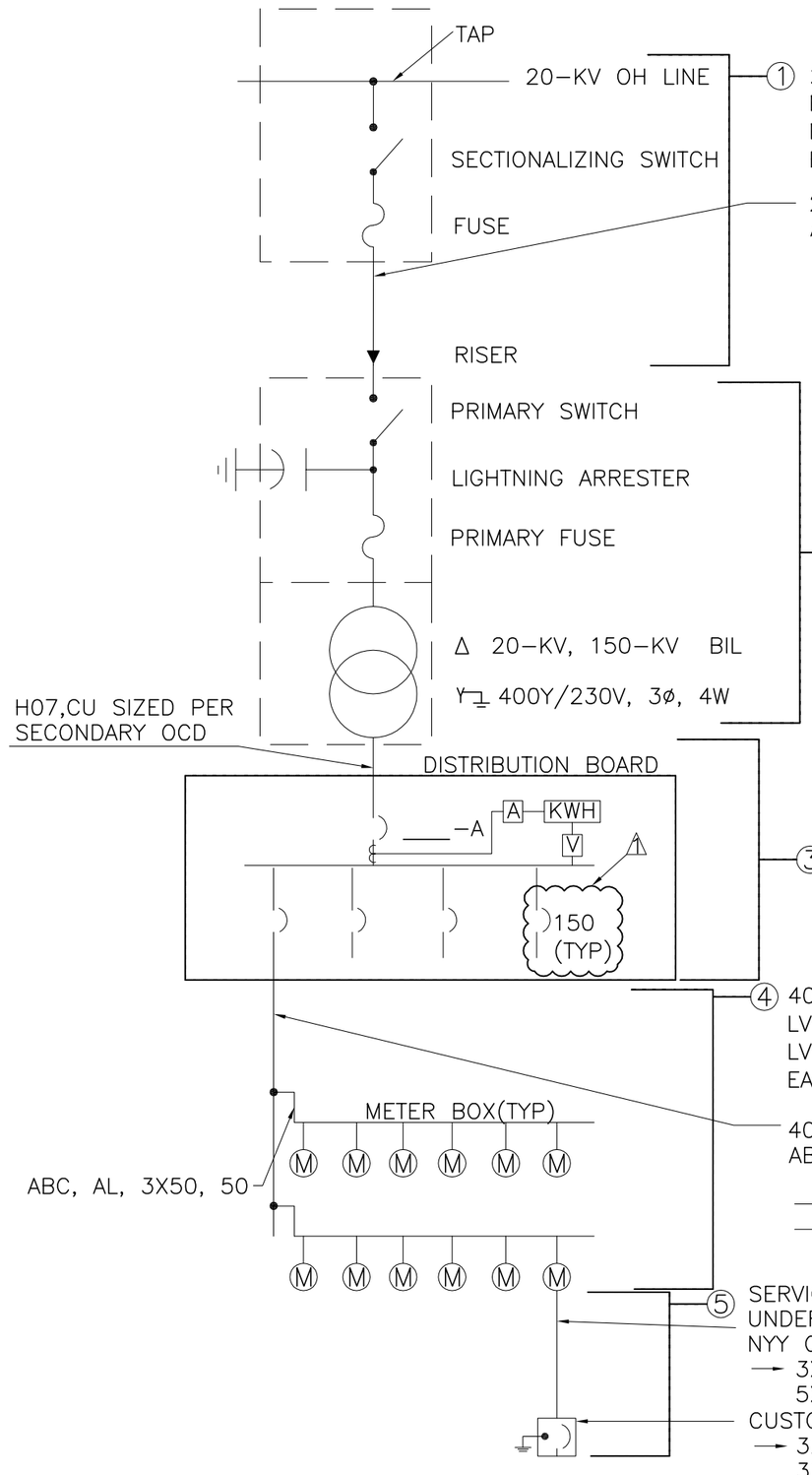

① 20-KV OHL
MV SUSPENSION (TANGENT) POLES, SINGLE 2,000-MM CROSS ARM, DABS AS-01, 2XAS-05, AS-07, MV-301C
MV TENSION (ANGLE) POLES, DOUBLE 2,000-MM CROSS ARMS, DABS AS-03, 1XAS-05, 6XAS-09, MV-308C
EACH MV TENSION (ANGLE) POLE IS GUYED. MV GUY, DABS AN-S1, GU-S1, GU-102C

20-KV OH LINE
ACSR
→ DIN 70/12
DIN 95/15
DIN 120/20
DIN 185/30

② SECONDARY TRANSFORMER SUBSTATION
25, 40, 63, 100, 160, 250, 400, OR 630-KVA
OA

③ SECONDARY 400-V DISTRIBUTION
SIZE TRANSFORMER SECONDARY OCD PER TRANSFORMER SIZE

④ 400-V OH TO METER BOXES
LV SUSPENSION (TANGENT) POLES, DABS AS-11, LV-101
LV TENSION (ANGLE) POLES, DABS AS-12, AS-13, LV-102
EACH LV TENSION (ANGLE) POLE IS GUYED. LV GUY, DABS AN-S1, GU-S1, GU-101C

400-V OH LINE
ABC, AL
3X50, 50
→ 3X70, 50
→ 3X95, 70
3X120, 70

⑤ SERVICE LATERALS AND SE DISCONNECTS
UNDERGROUND SERVICE LATERAL
NYY CU
→ 3X10 RE
5X10 RE
CUSTOMER SERVICE DISCONNECT
→ 32A, 1P
32A, 3P

NOTE:
MATERIALS SHALL CONFORM TO DABS DISTRIBUTION STANDARDS, CHAPTER U DABS STANDARD TECHNICAL DATA SHEETS, CHAPTER Y, DABS TECHNICAL SPECIFICATIONS, CHAPTERS A THROUGH S, AND DABS CHAPTER Z-3 INFORMATION ON SPECIFIC ITEMS OF SUPPLY, CHAPTERS D,H,I,N,O,S.

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UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.

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CONCEPT DESIGN

SYMB	DESCRIPTION	DATE	APR
1	CHANGED SIZE OF OCD	12/18/2010	

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DESIGNED BY: MAL
DATE: 12/31/2010
DWN BY: AS
SUBMITTED BY: TETRA TECH
CHK BY: MAL
FILE NO.: LT0025-E-100

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AESP

USAID - OIEE
42 VILLAGES ELECTRIFICATION
ELECTRICAL
ONE-LINE DIAGRAM

SHEET REFERENCE NUMBER:
LT0025
E-100

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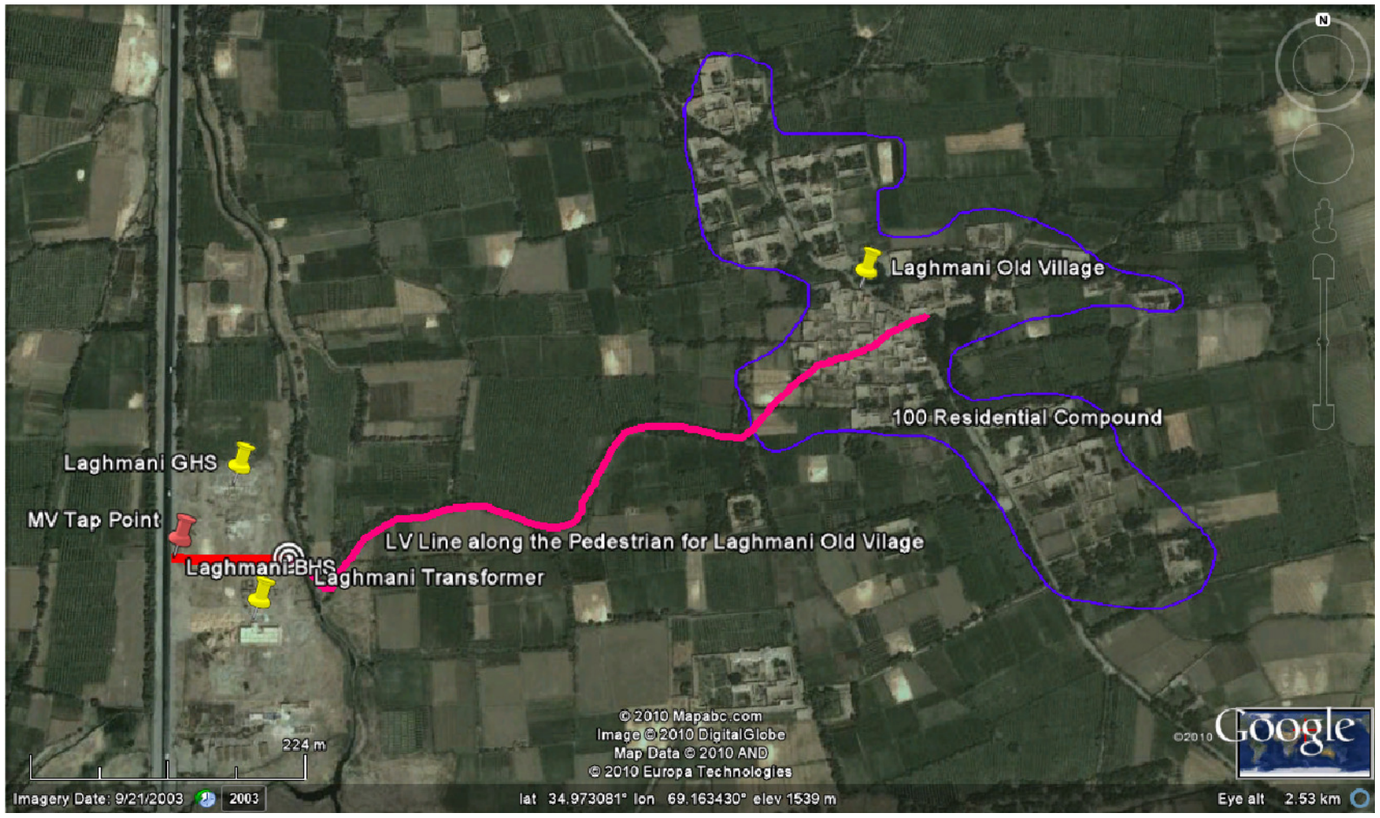

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CONCEPT DESIGN

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SYMB	DESCRIPTION	DATE	APR

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DATE: 12/31/2010
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SUBMITTED BY: TETRA TECH
CHK BY: MAL
FILE NO.: LT0025-E-111

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42 VILLAGES ELECTRIFICATION
LAGHMANI
AERIAL IMAGE

SHEET REFERENCE NUMBER:
LT0025
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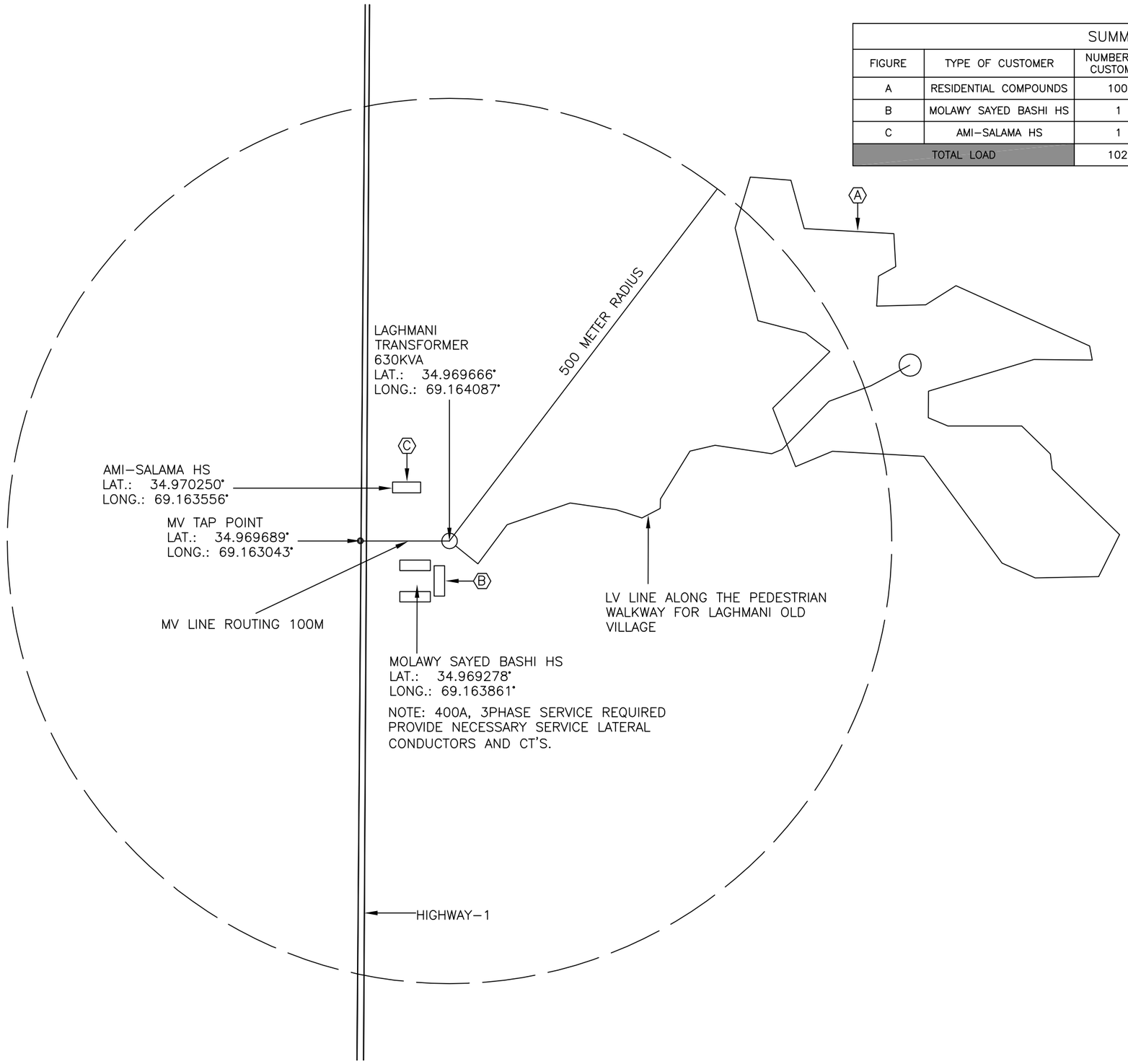
SUMMARY TABLE					
FIGURE	TYPE OF CUSTOMER	NUMBER OF CUSTOMER	AREA M^2	DENSITY M^2/CUSTOMER	ESTIMATED PEAK COINCIDENTAL KW
A	RESIDENTIAL COMPOUNDS	100	78,511	785	70
B	MOLAWY SAYED BASHI HS	1	3,180	3,180	159
C	AMI–SALAMA HS	1	400	400	20
TOTAL LOAD		102	82,091	805	249



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		APR

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SUBMITTED BY: TETRA TECH
CHK BY: MAL
FILE NO.: LT0025–E–112

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