

EXISTING ELECTRICAL SITE PLAN (PARTIAL) - PRIMARY DISTRIBUTION

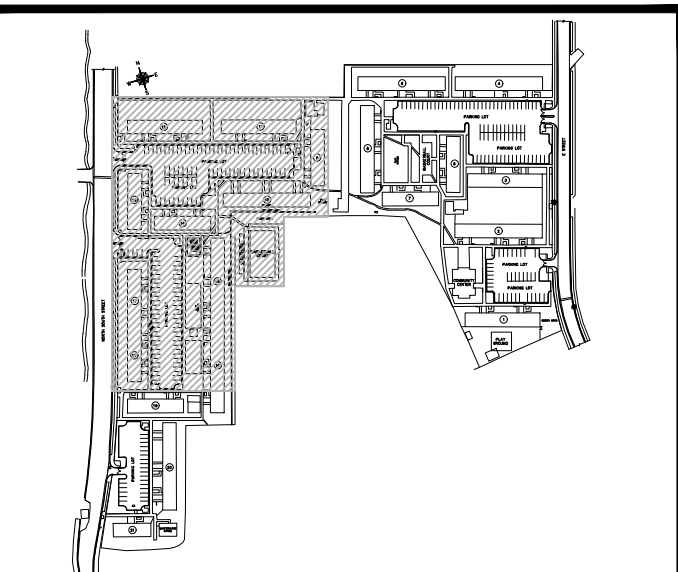
SCALE: 1:400

NOTES:

- 1. ALL EXISTING ELECTRICAL INSTALLATION SHALL BE REMOVED BY PHASES AFTER NEW INSTALLATION IS IN SERVICE. THIS INCLUDES TRANSFORMERS, SWITCHING UNITS AND LIGHT POLES, DIRECT BURIAL PRIMARY FEEDERS AND LIGHTING FEEDERS SHALL BE ABANDONED.
- 2. EXISTING SECONDARY FEEDERS FROM TRANSFORMER UNTIL METERBANKS SHALL BE ABANDONED. REFER TO NEW DISTRIBUTION ON SHEETS ES-102X.

ELECTRICAL LEGEND:

- EXISTING PREPA POLE TO BE REMOVED. 4.16 KV LINE SHALL BE TRANSFERRED TO NEW CONCRETE POLES.
- ▽ EXISTING POLE MOUNTED DISTRIBUTION TRANSFORMER. SIZE AS SHOWN.
- //— EXISTING 4.16 KV 3PH. OVERHEAD PREPA PRIMARY LINE TO REMAIN.
- ← PRIMARY DOWN GUY WIRE.
- EXISTING OCTAGONAL ORNAMENTAL CONCRETE LIGHTING POLE.
- X— ER TRIPLEX CABLE SECONDARY LINE TO BE REMOVED.
- 13.2— EXISTING 13.2 KV, 3PH. OVERHEAD PRIMARY LINE TO REMAIN.
- |— EXISTING 2.4KV SINGLE PHASE PRIMARY UNDERGROUND FEEDER CONSISTING OF 2 # 4 AWG, 15KV GROUNDING, TWO CONDUCTORS CONCENTRIC CONSTRUCTION, POLYETHYLENE INSULATED, SHIELDED COPPER CABLE WITH NEUTRAL CONDUCTOR OVER SHIELD FOR DIRECT BURIAL. INSTALLATION AT 48" BFG, FRPRA STD. URD-16.
- ||— EXISTING 4.16 GROUND/2.4 KV THREE PHASE PRIMARY UNDERGROUND FEEDER CONSISTING OF 3 #4/0 AWG, 15KV GROUND/NEUTRAL 75°C COPPER TEMPERATURE, POLYETHYLENE INSULATED, SHIELDED, PVC JACKET, S/C COPPER CABLES IN 3 1/2" PVC 210 SDR21 PLASTIC CONDUIT AND 1 #4/0 AWG TYPE TW GROUND/NEUTRAL WIRE FOR DIRECT BURIAL. INSTALLATION AT 48" BFG, FRPRA STD. URD-17.
- EXISTING PAD MOUNTED SWITCHING UNIT TO BE REMOVED. SEE NOTE NO.1.
- EXISTING PAD MOUNTED TRANSFORMER 2.4KV-120/24V SINGLE PHASE, KVA AS SHOWN TO BE REMOVED. SEE NOTE NO.1.



KEY PLAN

NOT TO SCALE

CAMANO

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Puerto Rico, Calle A #105, San Juan, PR 00924
Tel: 787-462-3438 Fax: 787-462-3438

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

- I, I CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS FOR PREPA.
- IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE BEEN DESIGNATED AS THE DESIGNER OF THIS PROJECT'S ELECTRICAL SYSTEMS. I CERTIFY THAT I HAVE PREPARED THE ELECTRICAL DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: 10423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2020

PROJECT NUMBER: IT-1-248 LINDA DUNN/DESIGN ENGINEER

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

- PREPA ENDORSES THE ELECTRICAL DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.
- PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. FURTHER, THIS ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL LIABILITY INSURANCE, WITH STANDING DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION REGIME.
- THIS ENDORSEMENT IS VALID FOR TWO YEARS IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TIME. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRAWN BY
J.I.R.C.
CHECKED BY
E. FIGUEROA
DATE
OCT.15.18

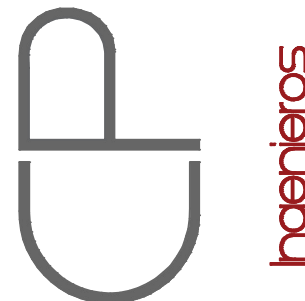
REVISIONS

1 5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



NOTE

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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
EXISTING ELECTRICAL
SITE PLAN
(PARTIAL) AS-BUILT

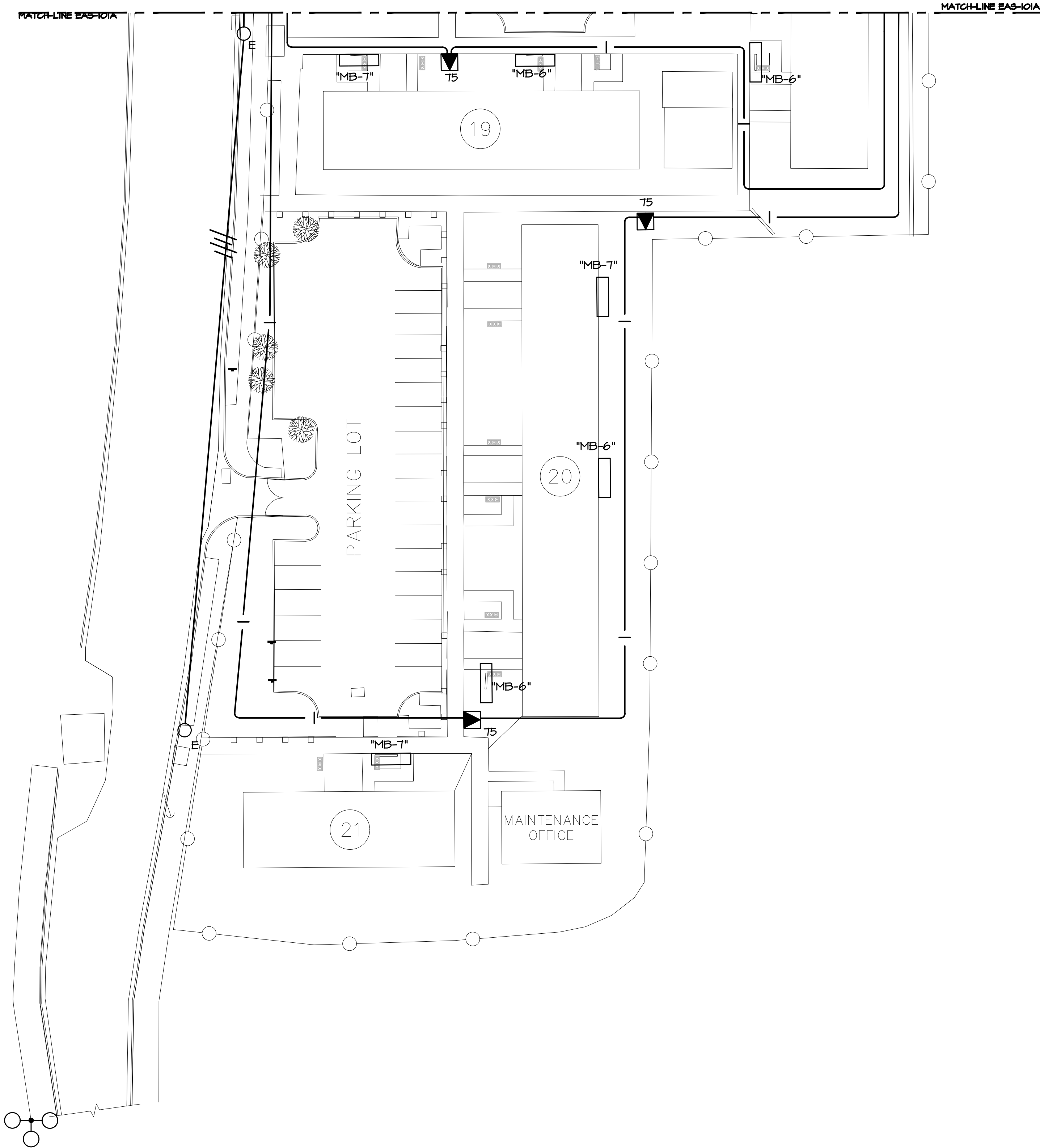
PAGE
EAS-101A

OF



- OF

Certificación: Yo, Ing. Enrique Figueroa Santos-Buñ, Ingeniero Licenciado Núm. 18023, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias. Autorizo Reglamentaciones o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que yo sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPE y otras autoridades complementarias, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPE.

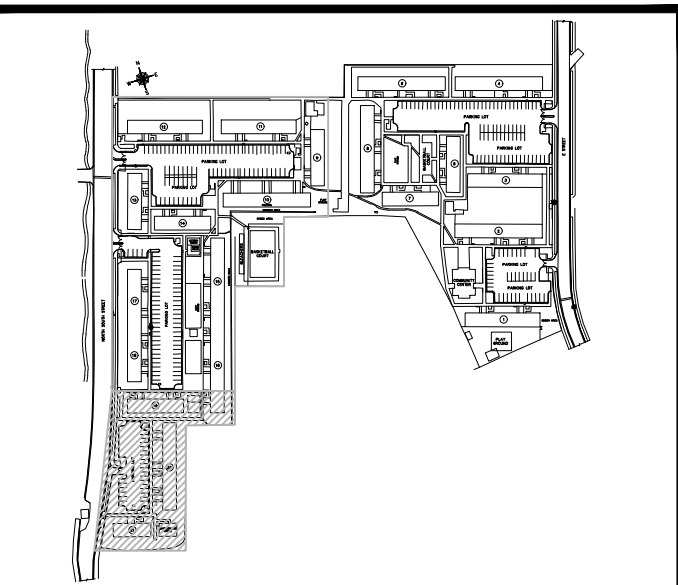


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SCALE: 1/400

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Venezuela, Calle A #105, San Juan, PR 00921
Tel: 787-220-8633
E/ luiscamano@gmail.com

CAMANO

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com



KEY PLAN NOT TO SCALE

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

1. I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS TO PREPARE.

2. IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, AND/OR IN COMPLIANCE WITH THE CERTIFICATION LAW, I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPARE, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: 18423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2020

PROJECT NUMBER: IT-I-248 LINDA GONZALEZ BUSTAMANTE

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

1. PREPARE ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPARE DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPARE'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPARE'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL FIRM COMPLIANCE WITH STATUTE DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPARE AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BOARD.

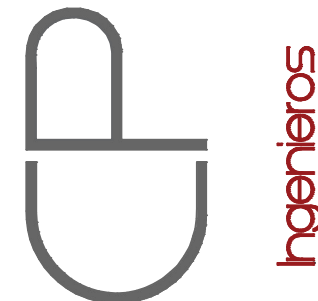
3. THIS ENDORSEMENT IS VALID FOR TWO YEARS IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TERM. WITH PRIOR NOTIFICATION TO PREPARE, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRAWN BY
J.I.R.C.
CHECKED BY
E. FIGUEROA
DATE
OCT.15.18

REVISIONS	
1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado
PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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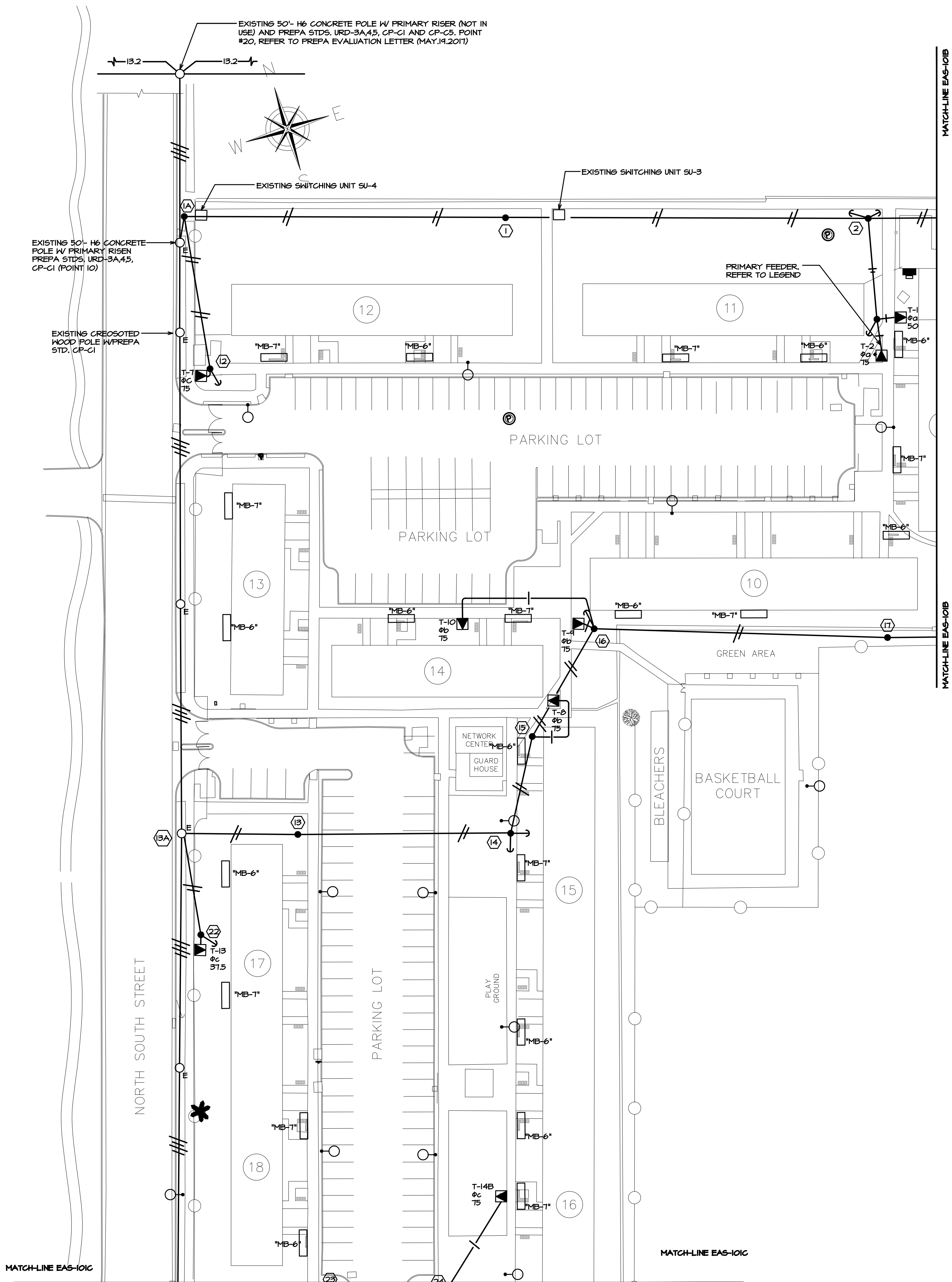
PROJECT
MIRADOR LAS CASAS APARTMENTS
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PAGE
EAS-101C

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NOTES:

- 1. ALL EXISTING ELECTRICAL INSTALLATION SHALL BE REMOVED BY PHASES AFTER NEW INSTALLATION IS IN SERVICE. THIS INCLUDES TRANSFORMERS, SWITCHING UNITS AND LIGHT POLES, DIRECT BURIAL PRIMARY FEEDERS AND LIGHTING FEEDERS SHALL BE COVERED AND ABANDONED.
- 2. EXISTING SECONDARY FEEDERS FROM TRANSFORMER UNTIL METERBANKS SHALL BE ABANDONED. REFER TO NEW DISTRIBUTION ON SHEETS E5-102X.
- 3. ALL WORK ON OR NEAR PREPA ENLARGED LINES SHALL BE BY PREPA AT OWNER'S EXPENSE.
- 4. CONTRACTOR SHALL COORDINATE DURING CONSTRUCTION THAT THE INSTALLATION OF POWER POLES, GUYS, TRANSFORMERS, FEEDERS AND LIGHTING POLES DO NOT INTERFERE WITH ENTRANCES OR PEDESTRIAN WALKWAYS.

ELECTRICAL LEGEND: (FOR TEMPORARY LINE)

- EXISTING PREPA POLE (APPLIES ONLY FOR SH. EAS-102A, 102B, 102C). 4.16 KV LINE SHALL BE TRANSFERRED TO NEW CONCRETE POLES.
- ▽ EXISTING POLE MOUNTED DISTRIBUTION TRANSFORMER. SIZE AS SHOWN.
- ≡≡≡ EXISTING 4.16 KV 3PH, OVERHEAD PREPA PRIMARY LINE TO REMAIN.
- ← PRIMARY DOWN GUY WIRE.
- EXISTING OCTAGONAL ORNAMENTAL CONCRETE LIGHTING POLE. SEE NOTE NO.1.
- X- TRIPLEX CABLE SECONDARY LINE TO BE REMOVED.
- 13.2- EXISTING 13.2 KV, 3PH, OVERHEAD PRIMARY LINE TO REMAIN.
- NEW TEMPORARY 2.4KV SINGLE PHASE PRIMARY UNDERGROUND FEEDER CONSISTING OF 1 # 2 AWG, 15KV SHIELDED, TOLPE-40", 1 NO.2 AWG, 600V TM COPPER CONDUCTORS IN 3" PVC SCH.40 AT 48" BFG.
- ≡≡≡ NEW OVERHEAD PRIMARY LINE 4.16KV CONSISTING OF 3 NO. 3/0 AGAR CABLE.
- ≡≡≡ NEW OVERHEAD PRIMARY LINE 2.4KV CONSISTING OF 2 NO. 3/0 AGAR CABLE.
- SW EXISTING PAD MOUNTED SWITCHING UNIT TO BE REMOVED. SEE NOTE NO.1.
- EXISTING PAD MOUNTED TRANSFORMER 2.4KV-120/24V SINGLE PHASE, KVA AS SHOWN TO BE REMOVED. SEE NOTE NO.1.
- NEW CONCRETE POLE, REFER TO POLE CONSTRUCTION STANDS.

POLE CONSTRUCTION STANDARDS

STD	POLE	HEIGHT	CP-A1	CP-A2	CP-A3	CP-A4	CP-A5	CP-A6	CP-A7	CP-B1	M16-3	M16-4	URD-2A45	URD-3A45	EL-2-3	F-1	STL-11
1	45'-H4	1															
2	45'-H4																
3	45'-H4																
4	45'-H4																
5	45'-H4																
6	45'-H4																
7	45'-H4																
8	45'-H4																
9	45'-H4																
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22	45'-H4																
23	45'-H4																
24	45'-H4																
25	45'-H4																
26	45'-H4																
27	45'-H4																

TRANSFER LOAD BALANCE

TRANSFR. NO.	ΦA	ΦB	ΦC	DROPS
T-1	50	-	-	
T-2	75	-	-	
T-3	50	-	-	
T-4	75	-	-	
T-4B	75	-	-	
T-5	37.5	-	-	
T-6	50	-	-	
T-7	-	-	75	
T-8	-	75	-	
T-9	-	75	-	
T-10	-	75	-	
T-11	-	75	-	
T-12	-	37.5	-	
T-13	-	-	37.5	
T-14	-	-	75	
T-14B	-	-	75	
T-15	-	-	75	
T-16	-	-	75	
TOTAL	412.5	337.5	412.5	1162.5

06PE-2017-154033-SRI-013754

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- IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE BEEN DESIGNATED AS THE DESIGNER OF THIS PROJECT'S ELECTRICAL SYSTEMS. I CERTIFY THAT I HAVE PREPARED THE ELECTRICAL DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

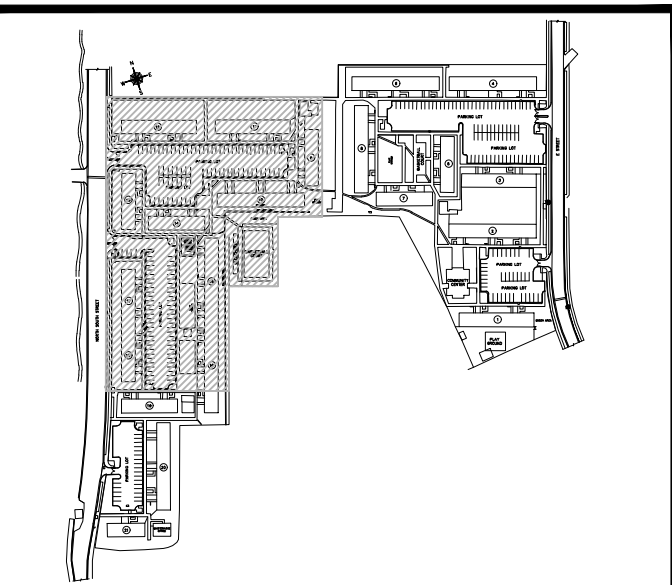
DESIGNER'S SIGNATURE AND SEAL: 18423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. PROJECT NUMBER: IT-1-248

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

- PREPA ENDORSES THE ELECTRICAL DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.
- PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PLANS, THIS ENDORSEMENT HELD WITHIN THE BULLETIN FOR PROJECTS, RESPECTUALLY FROM CONSTRUCTION STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.
- THIS ENDORSEMENT IS VALID FOR TWO YEARS OF ELECTRICAL WORKS HAVE BEGUN DURING THIS YEAR. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.



KEY PLAN NOT TO SCALE

EXISTING ELECTRICAL SITE PLAN TEMPORARY LINE (PARTIAL) - PRIMARY DISTRIBUTION

SCALE: 1:400

CLIENT WEST CORP.

DESIGN E. FIGUEROA

DRWN BY J.I.R.C.

CHK'D BY E. FIGUEROA

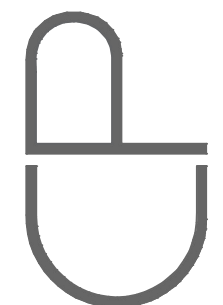
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REVISIONS

1 5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA Ingeniero Licenciado



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PROJECT MIRADOR LAS CASAS APARTMENTS FULL REHABILITATION SANTURCE, PR

TITLE EXISTING ELECTRICAL SITE PLAN TEMPORARY LINE (PARTIAL)

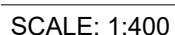
PAGE EAS-102A

OF

e figueroa p.s.c. INGENIEROS CONSULTORES

CAMANO

CALLE COSTA 391 OFFICE 201 SAN JUAN, PR 00918 T/ 787 220 8633 E/ luiscamano@gmail.com



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2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGNER'S ENDORSEMENT. THIS ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE DESIGNER'S RESPONSIBILITY TO THE CLIENT FOR THE DESIGN OF THESE PROJECT'S PLANS. THIS ENDORSEMENT RELIEVES NEITHER THE DESIGNER NOR PREPA FROM THE DESIGNER'S AND PREPA'S OBLIGATIONS AND DISPOSITIONS FROM NATIONAL ELECTRICAL SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AND FEDERAL AND STATE LAWS RELATING TO THE CONSTRUCTION REGIONS.

3. THIS ENDORSEMENT IS VALID FOR TWO YEAR. IF ELECTRICAL WORKS ARE NOT DURING THE TWO YEAR PERIOD, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORKS COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THE ENDORSEMENT WILL BE VOID.

CERTIFIED CORRECT

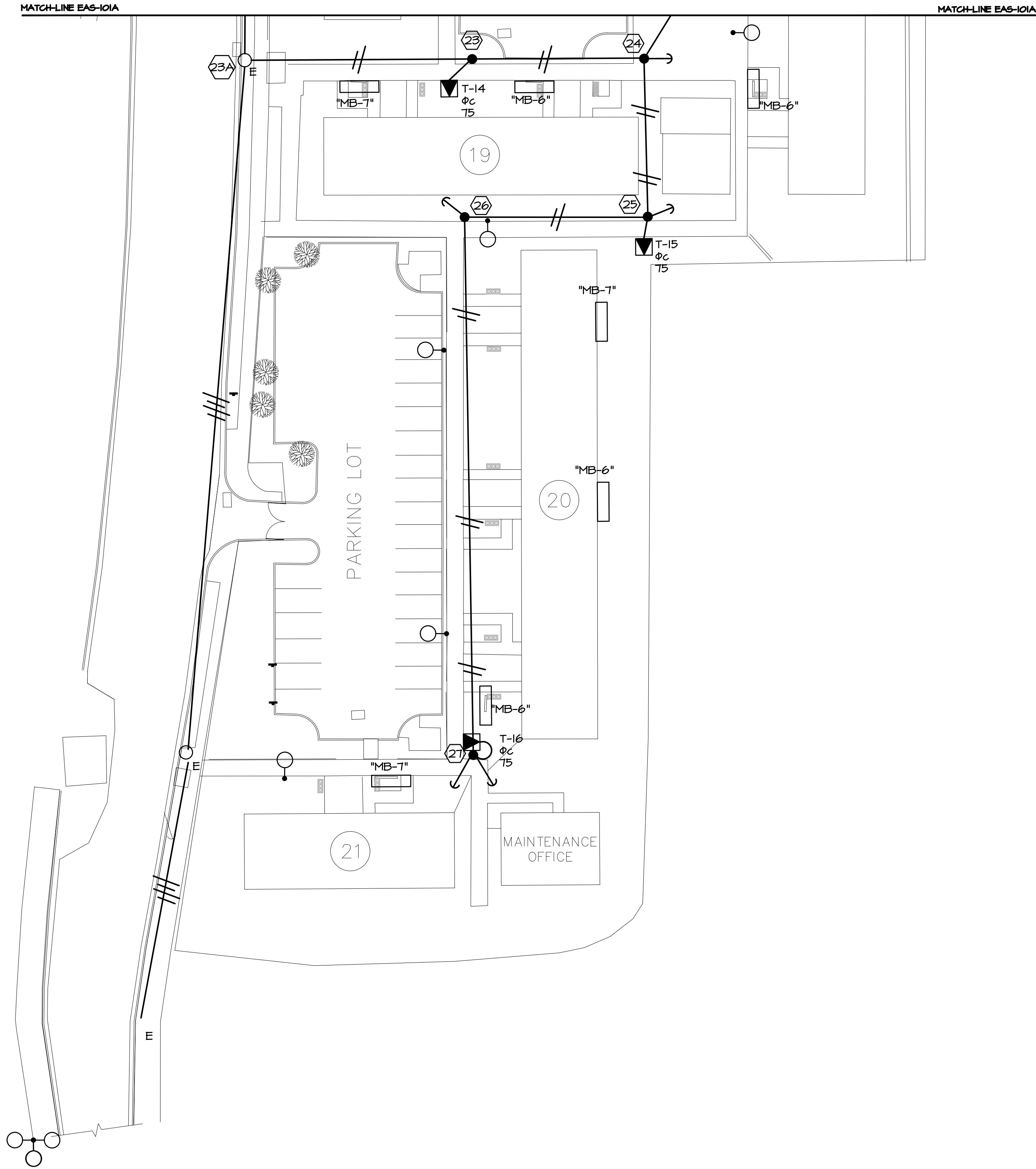
cpingenieros@outlook.com
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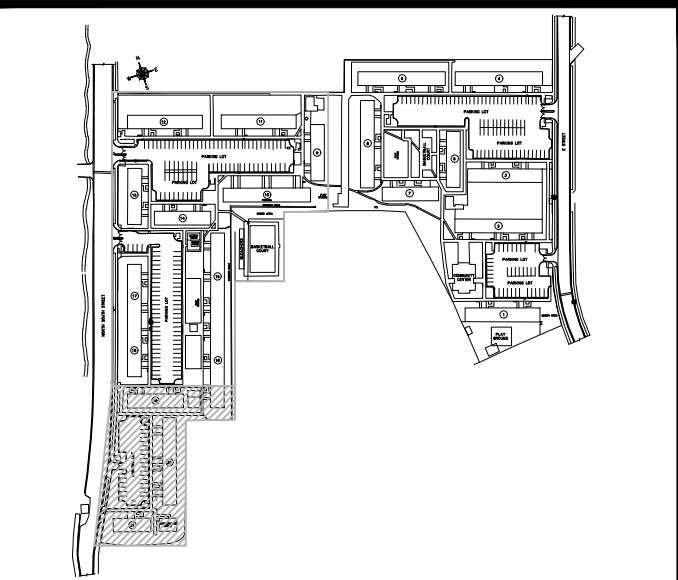


EXISTING ELECTRICAL SITE PLAN TEMPORARY LINE (PARTIAL) - PRIMARY DISTRIBUTION
SCALE: 1:400

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Puerto Rico, Calle A #105, San Juan, PR 00924
Tel: 787-220-8633
E: luisacamanos@gmail.com

CAMANO
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. 18923

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
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DESIGNER'S CERTIFICATION

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DESIGNER'S SIGNATURE AND SEAL: **18423 P.E.**
LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: **MIRADOR LAS CASAS-APART.**
PROJECT NUMBER: **IT-I-248** **2020**
LONO (OWNER'S DESIGNATION)

ENDORSED BY:	REVISION	DATE
	1	
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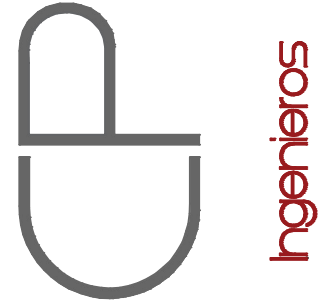
1. PREPARE ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPARE DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPARE'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPARE'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL ENGINEERS FROM COMPLIANCE WITH STATUTE DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPARE AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION REGIME.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TERM. WITH PRIOR NOTIFICATION TO PREPARE, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT WEST CORP.	
DESIGN E. FIGUEROA	
DRWN BY J.I.R.C.	
CHK'D BY E. FIGUEROA	
DATE OCT.15.18	
REVISIONS	
1	5.24.17
CERTIFIED CORRECT	

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado
PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



NOTE

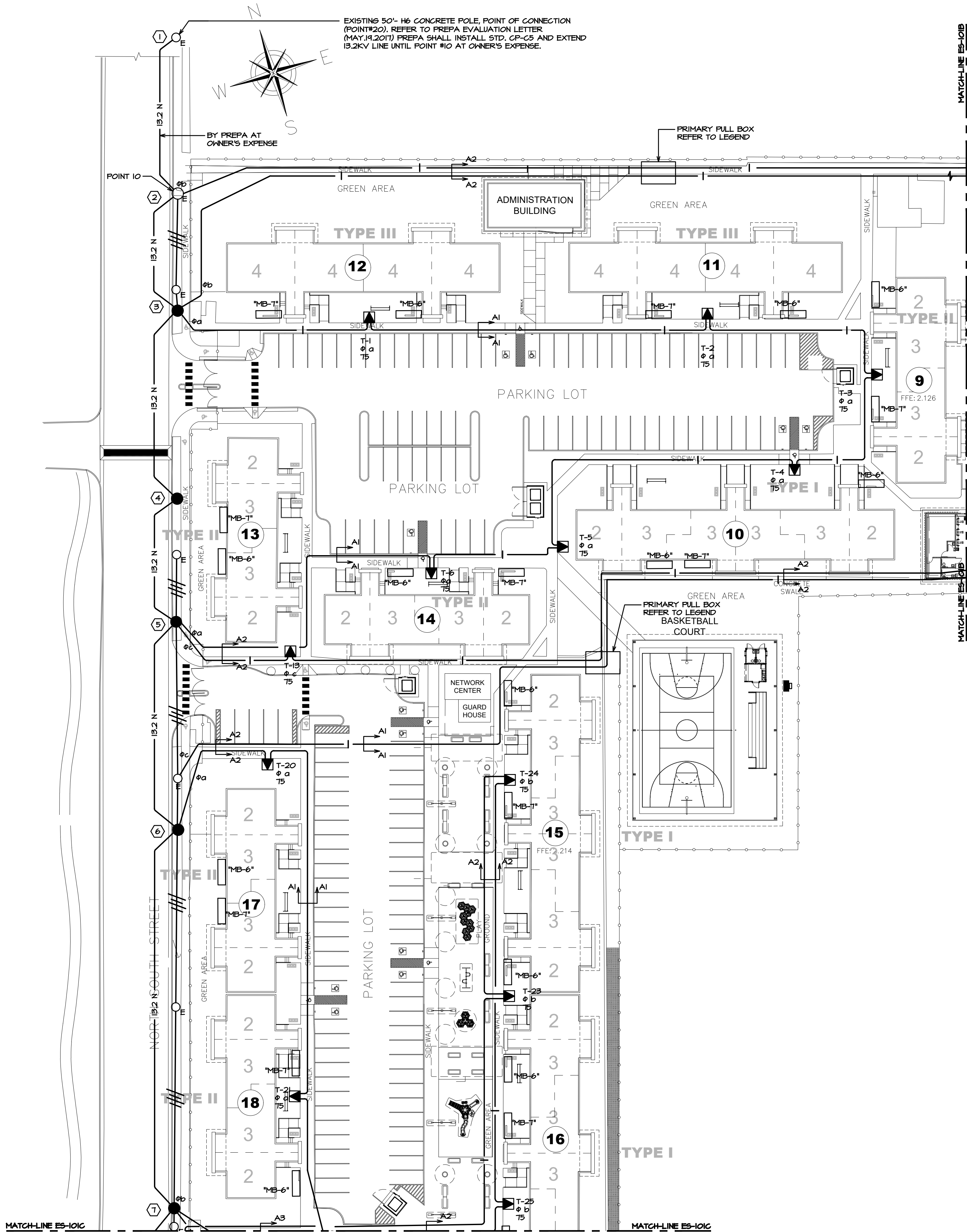
THESE DRAWINGS AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF CARLOS M. PÉREZ RIVERA. THEY SHALL BE USED AS A REFERENCE DOCUMENT AND WORKING INSTRUMENT ONLY BY THE PROJECT OWNER TOTAL OR PARTIAL REPRODUCTION OR USE OF THESE PLANS, FOR OTHER PURPOSES BESIDES THIS PROJECT IS STRICTLY PROHIBITED WITHOUT THE APPROPRIATE WRITTEN CONSENT OF THIS FIRM AND SHALL BE RETURNED TO OUR OFFICE IF REQUIRED.

PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
EXISTING ELECTRICAL
SITE PLAN TEMPORARY LINE
(PARTIAL)

PAGE
EAS-102C
- OF -

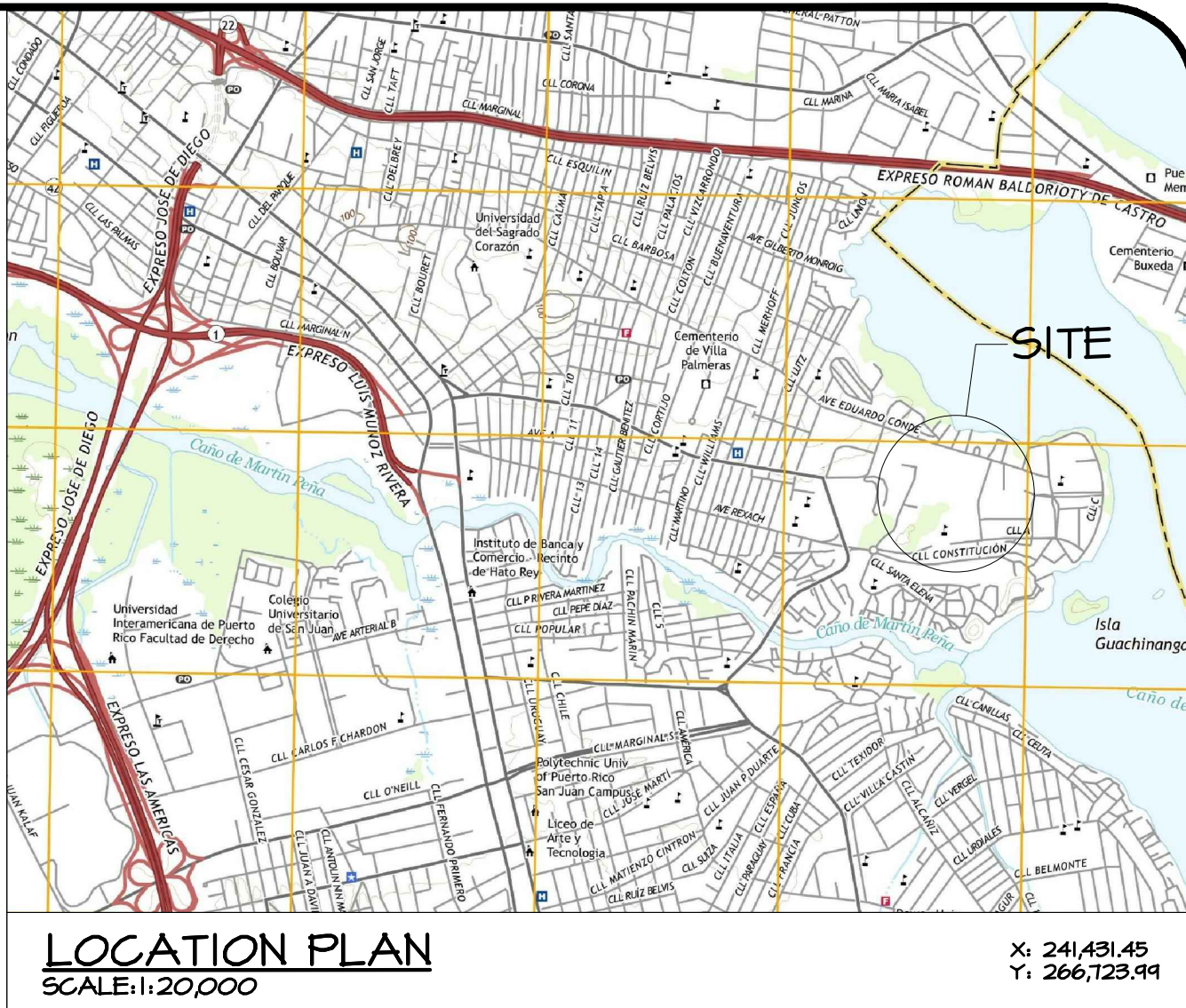
Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Núm. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPe.



NEW ELECTRICAL SITE PLAN (PARTIAL) - PRIMARY DISTRIBUTION
SCALE: 1:400

NOTES:

- CONTRACTOR SHALL COORDINATE CONNECTION DETAILS & COST W/ SAN JUAN DISTRIBUTION ENGINEER.
- TO SERVE THESE PROJECT PREPA WILL EXTEND THE 13.2KV OVERHEAD PRIMARY LINE FROM POINT #20 UNTIL #10 APPROXIMATELY 160 FT. AT OWNER'S EXPENSE.
- ALL WORK ON OR NEAR PREPA ENERGIZED LINES SHALL BE BY PREPA AT OWNER'S EXPENSE.
- NAD-83, MEASUREMENT IN METERS.



KEY PLAN
NOT TO SCALE

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

I, CERTIFY THAT I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PRESENT THESE CONSTRUCTION PLANS TO PREPA.

IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL APPLICABLE CODES, STANDARDS, ORDINANCES AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: **18423 P.E.**
LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: **MIRADOR LAS CASAS-APART.**
PROJECT NUMBER: **17-1-248** LONG DURATION DESIGN

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPA'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL ENGINEERS FROM COMPLIANCE WITH STATUTE DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, ORDINANCES AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION REGIME.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS OF ELECTRICAL WORKS HAVE BEGUN DURING THIS YEAR. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT	
WEST CORP.	
DESIGN	
E. FIGUEROA	
DRWN BY	
J.I.R.C.	
CHKD BY	
E. FIGUEROA	
DATE	
OCT.15.18	
REVISIONS	
1	5.24.17
CERTIFIED CORRECT	

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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PROJECT

MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

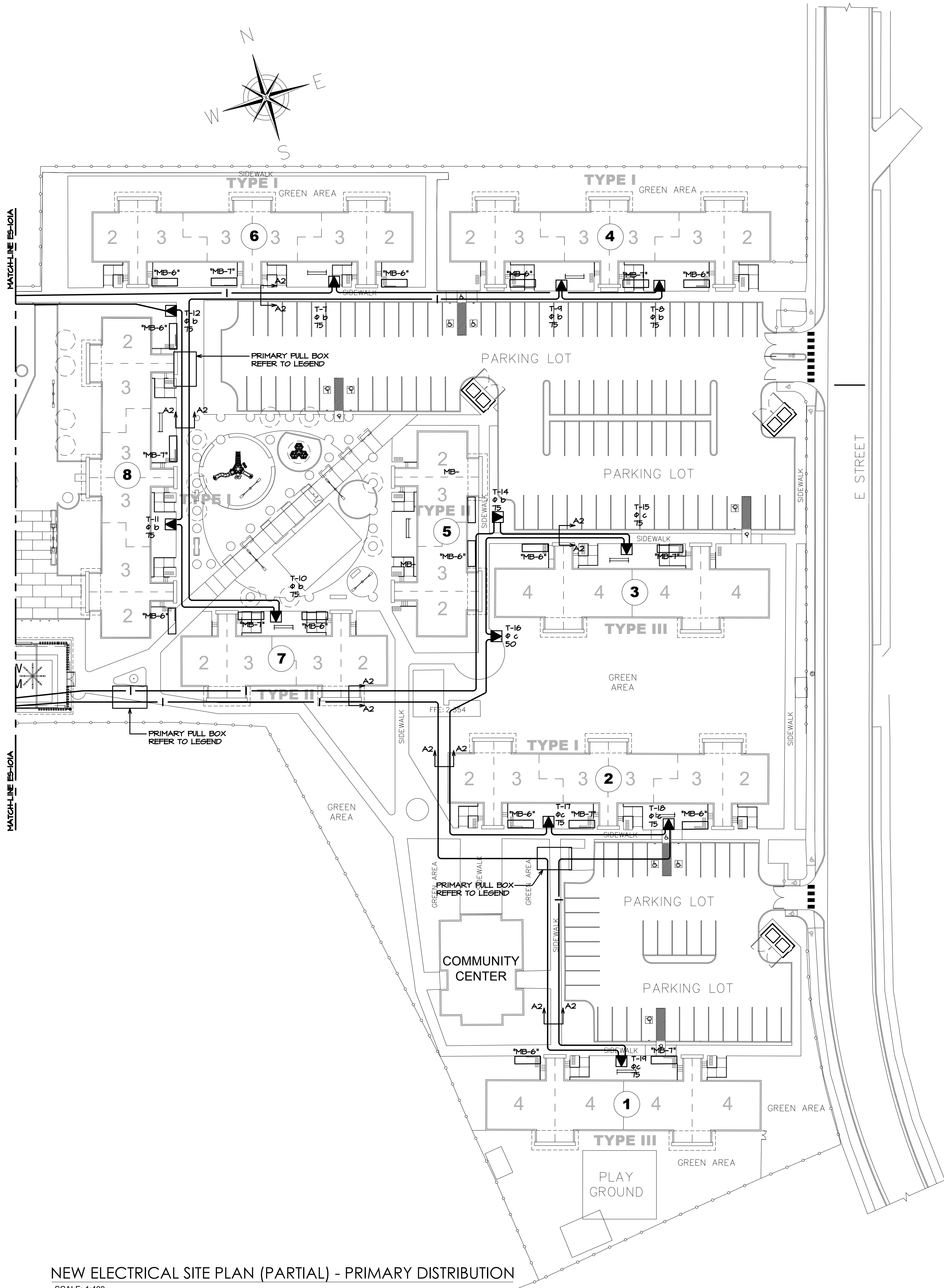
TITLE

NEW ELECTRICAL
SITE PLAN
(PARTIAL) PRIMARY

PAGE

ES-101A

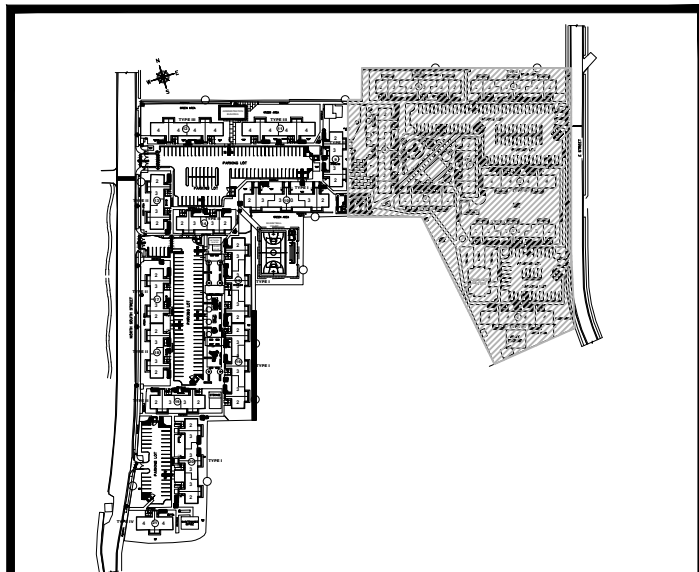
OF



NEW ELECTRICAL SITE PLAN (PARTIAL) - PRIMARY DISTRIBUTION
SCALE: 1:400

e figueroa p.s.c.
INGENIEROS CONSULTORES
República, El Ventanero, Calle A #105, San Juan, PR 00924
Tel: 787-220-8633
E/ luiscamano@gmail.com

CAMANO
REGISTERED
CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com



KEY PLAN NOT TO SCALE

06PE-2017-154033-SRI-013751

DESIGNER'S CERTIFICATION

1. I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PRESENT THESE CONSTRUCTION PLANS TO PREPA.

2. IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE NO CONFLICT OF INTEREST WITH THE PROJECT. I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: **18423 P.E.**
LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: **MIRADOR LAS CASAS-APART.**
PROJECT NUMBER: **IT-1-248** LONG DURATION SYSTEM

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. FURTHER, THIS ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL LIABILITY INSURANCE, THE DESIGNER FROM NATIONAL, ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BOARD.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS. IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TIME, WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

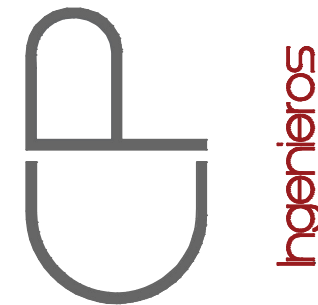
CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

REVISIONS	
1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
NEW ELECTRICAL
SITE PLAN
(PARTIAL) PRIMARY

PAGE
ES-101B
OF



CALLE COSTA 391
OFFICE 201
SAN JUAN PR 00918
T/ 787 220 8633
E/ luisccamanos@gmail.com

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSUMED WITH THE CERTIFICATION OF THESE PROJECT'S PLANS. THIS ENDORSEMENT HELDWITHIN THE CONTRACTOR'S OBLIGATION TO COMPLY WITH THE EXISTING DISPOSITIONS FROM: NATIONAL ELECTRICAL SAFETY CODE; CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER REGULATORY AGENCIES; AND THE FEDERAL AND STATE LAWS RULING BY TIME CONSTRUCTION BEGINS.

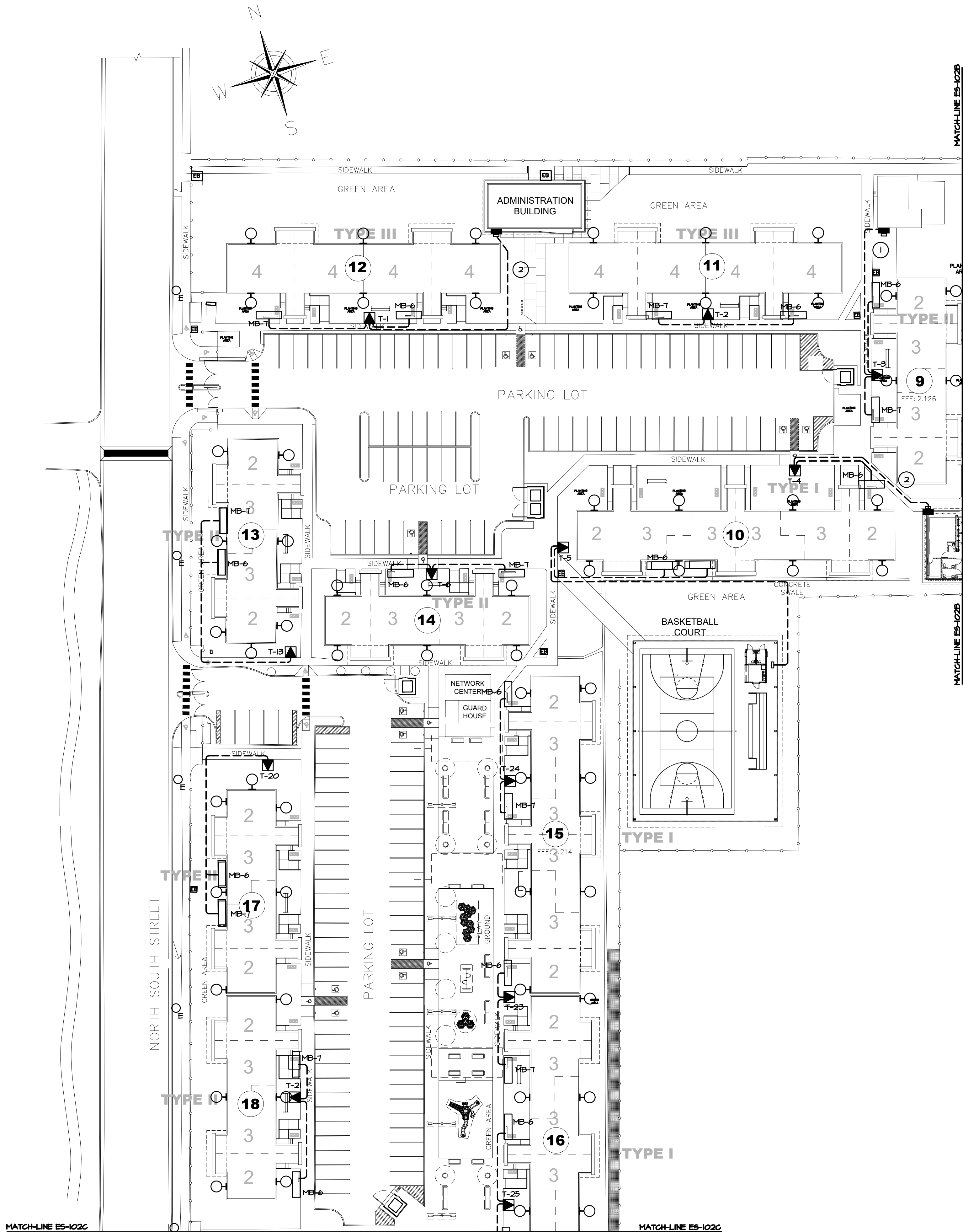
3. THIS ENDORSEMENT IS VALID FOR TWO YEAR. IF ELECTRICAL WORKS HAVE BEGUN DURING THIS YEAR, WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE OF NON-USE OF THE CONTRACTED WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

TITLE
NEW ELECTRICAL
SITE PLAN
(PARTIAL) PRIMARY

PAGE
ES-1010
- OF -

CERTIFIED CORRECT

[illegible]



NEW ELECTRICAL SITE PLAN (PARTIAL) - SECONDARY AND LIGHTING DISTRIBUTION
SCALE: 1/400

NOTES:

- EXISTING METERBASES SHALL BE WIRED TO NEW TRANSFORMERS AS SHOWN.
- CONTRACTOR SHALL PERFORM THE FOLLOWING UPGRADING & REVAMPING TASKS TO METERBANKS.
 - NEW SURFACE MOUNTED VANDAL PROOF ENCLOSURE AND HINGED DOOR.
 - VERIFY EXISTING 2P-100 AMP. BREAKERS AND REPLACE IF NECESSARY (APPROX. 30).

FEEDER SCHEDULE:

- 3 NO.2 RHH-2"
- 3 NO.3/0 RHH-2 1/2"

*ALL FEEDERS TO METERBANKS SHOWN BE 3 NO.250-3". EXCEPT AS OTHERWISE NOTED.

06PE-2017-154033-SRI-013751

DESIGNER'S CERTIFICATION

- I, I CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS TO PREPARE.
- IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE BEEN DESIGNATED AS THE DESIGNER OF THIS PROJECT'S ELECTRICAL DESIGN. I CERTIFY THAT I HAVE PREPARED THE ELECTRICAL DESIGN OF THIS PROJECT FOLLOWING ALL APPLICABLE CODES, STANDARDS, ORDINANCES AND REGULATIONS APPLICABLE TO PREPARED, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

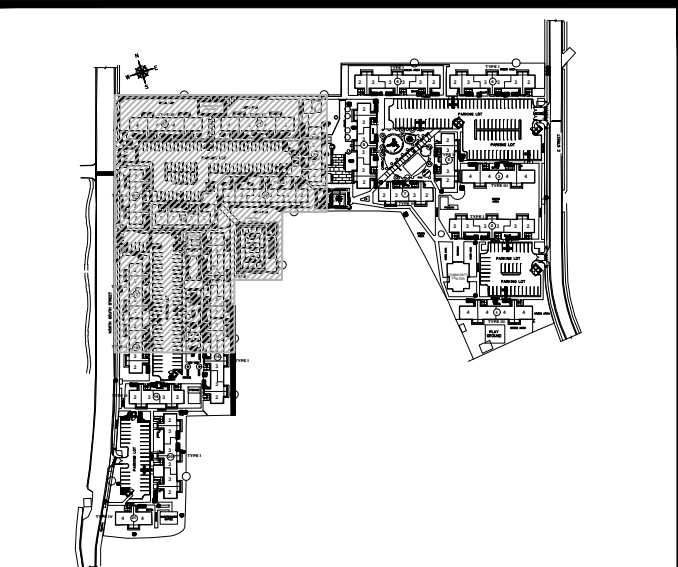
DESIGNER'S SIGNATURE AND SEAL: 18423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2020
PROJECT NUMBER: IT-1-248 LNO 00000000000000000000

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

- PREPARED ENDORSES THE ELECTRICAL DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.
- PREPARED DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPARED'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPARED'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL LIABILITY FROM COMPLAINTS, DISCIPLINARY ACTIONS, DAMAGES, LOSSES AND REGULATIONS APPLICABLE TO PREPARED, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.
- THIS ENDORSEMENT IS VALID FOR TWO YEARS FROM THE DATE OF THE ENDORSEMENT. THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.



KEY PLAN NOT TO SCALE

CAMANO

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Puerto Rico, Calle A #105, San Juan, PR 00921
Tel: 787-220-8633
E: luiscamano@gmail.com

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

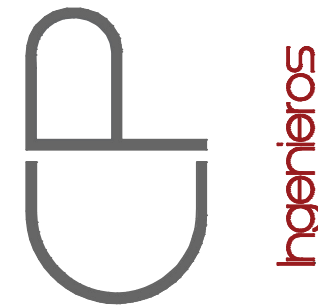
REVISIONS

1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



NOTE

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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
NEW ELECTRICAL
SITE PLAN (PARTIAL)
SECONDARY AND LIGHTING

PAGE
ES-102A
OF

Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Núm. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPe.



TITLE
NEW ELECTRICAL
SITE PLAN (PARTIAL)
SECONDARY AND LIGHTING

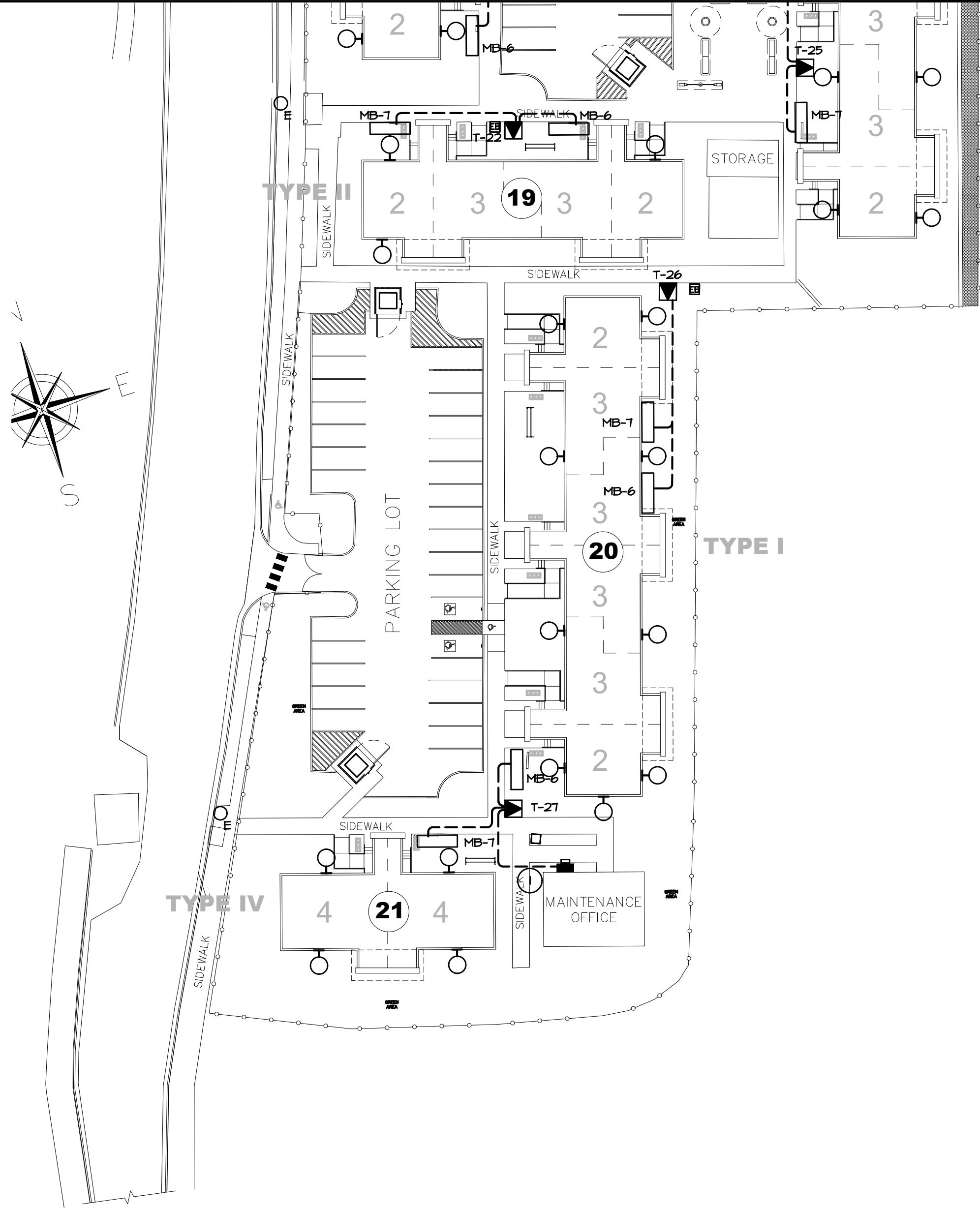
PAGE
ES-102B

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Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Núm. 18223, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que soy el profesional que cumplió con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPE y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPE.

MATCH-LINE ES-102A

MATCH-LINE ES-102A



NEW ELECTRICAL SITE PLAN (PARTIAL) - SECONDARY AND LIGHTING DISTRIBUTION
SCALE: 1:400

NOTES:

- EXISTING METERBAGES SHALL BE WIRED TO NEW TRANSFORMERS AS SHOWN.
- CONTRACTOR SHALL PERFORM THE FOLLOWING UPGRADING & REVAMPING TASKS TO METERBANKS.
 - NEW SURFACE MOUNTED VANDAL PROOF ENCLOSURE AND HINGED DOOR.
 - VERIFY EXISTING 2P-100 AMP. BREAKERS AND REPLACE IF NECESSARY (APPROX. 30).

FEEDER SCHEDULE:

- 3 NO.2 RHH-2"
- 3 NO.3/0 RHH-2 1/2"

*ALL FEEDERS TO METERBANKS SHOWN BE 3 NO.250-3". EXCEPT AS OTHERWISE NOTED.

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

- I, I CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS TO PREPARE.
- IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE BEEN DESIGNATED AS THE DESIGNER OF THIS PROJECT. I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPARE, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: 10423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. PROJECT NUMBER: IT-I-248

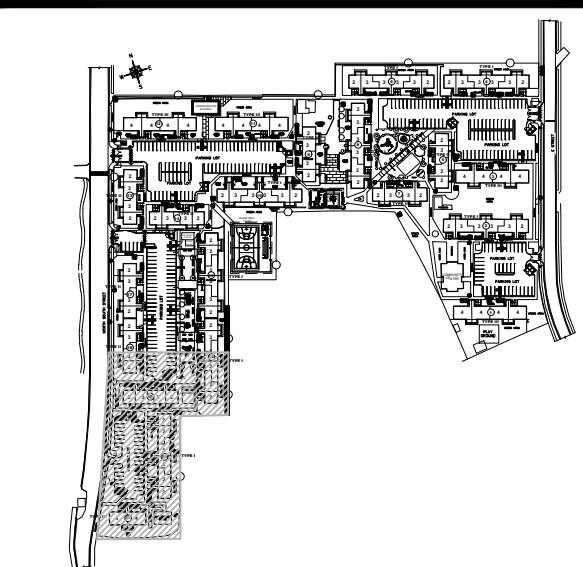
ENDORSED BY:	REVISION	DATE
	1	
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	4	

- PREPARE ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.
- PREPARE DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPARE'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPARE'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL LIABILITY FROM LIABILITY FOR VIOLATIONS OF THE NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPARE AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BOARD.
- THIS ENDORSEMENT IS VALID FOR TWO YEARS FROM THE DATE OF THE ENDORSEMENT. THE ENDORSEMENT WILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

e figueroa p.s.c.
INGENIEROS CONSULTORES
República, El Viequesano, Calle A #105, San Juan, PR 00924
Tel: 787-220-8633
E/ luiscamano@gmail.com

CAMANO

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com



KEY PLAN NOT TO SCALE

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

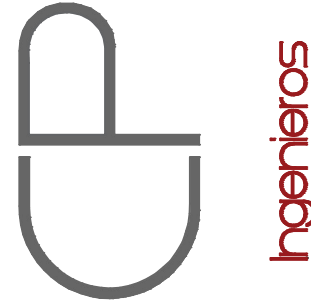
REVISIONS

1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

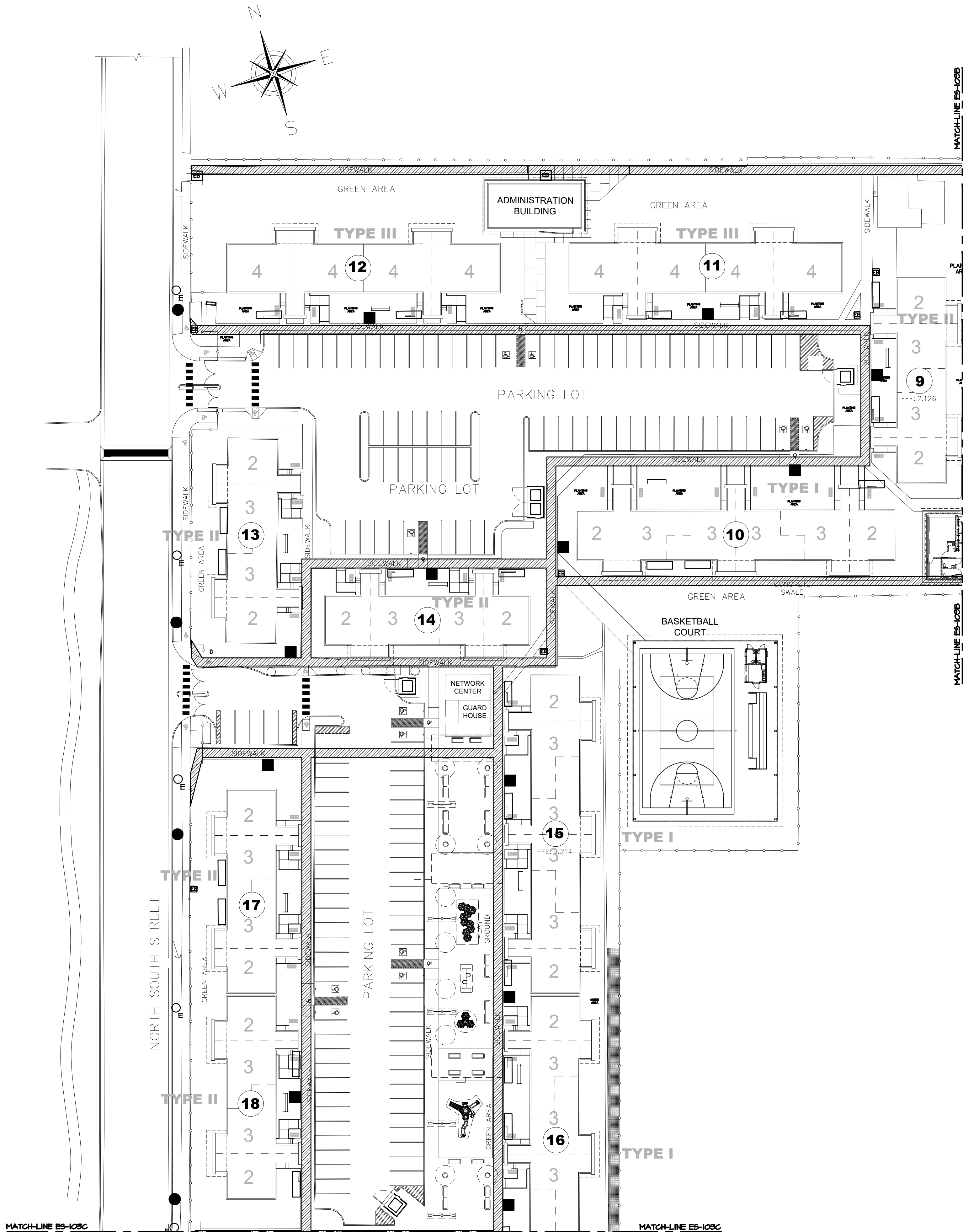
TITLE
NEW ELECTRICAL
SITE PLAN (PARTIAL)
SECONDARY AND LIGHTING

PAGE

ES-102C

OF

Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Núm. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPe.



- ELECTRICAL LEGEND:
- 5'-0" UNDERGROUND PRIMARY FEEDER RIGHT OF WAY.
 - 5' X 5' PAD MOUNTED TRANSFORMER RIGHT OF WAY.

06PE-2017-154033-SRI-013751

DESIGNER'S CERTIFICATION

1. I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS FOR PREPA.

2. IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE BEEN DESIGNATED AS THE DESIGNER OF THIS PROJECT. I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL APPLICABLE CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: **18423 P.E.**
PUERTO RICO POWER AUTHORITY LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: **MIRADOR LAS CASAS-APART.**
PROJECT NUMBER: **IT-I-248** LONG DURATION DESIGN

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

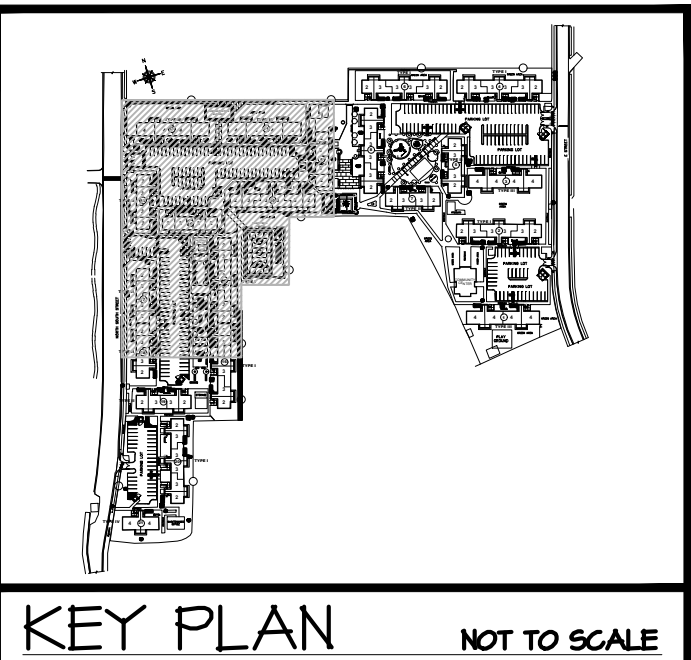
2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN OF THESE PROJECTS. PREPA'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL REGULATION FROM COMPLIANCE WITH STATUTE DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BEING.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TERM. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

NEW ELECTRICAL SITE PLAN (PARTIAL) - RIGHT OF WAY DISTRIBUTION
SCALE: 1:400

CAMANO

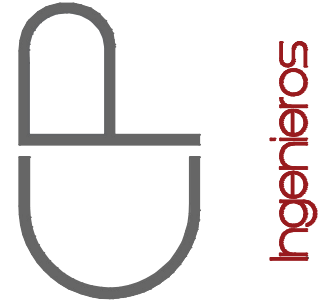
e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Puerto Rico, Calle A #105, San Juan, PR 00924
T/ 787-220-8633
E/ luiscamanos@gmail.com



CLIENT	
WEST CORP.	
DESIGN	
E. FIGUEROA	
DRWN BY	
J.I.R.C.	
CHK'D BY	
E. FIGUEROA	
DATE	
OCT.15.18	
REVISIONS	
1	5.24.17
CERTIFIED CORRECT	

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



NOTE

THESE DRAWINGS AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF CARLOS M. PÉREZ RIVERA. THEY SHALL BE USED AS A REFERENCE DOCUMENT AND WORKING INSTRUMENT ONLY BY THE PROJECT OWNER TOTAL OR PARTIAL REPRODUCTION OR USE OF THESE PLANS, FOR OTHER PURPOSES BESIDES THIS PROJECT IS STRICTLY PROHIBITED WITHOUT THE APPROPRIATE WRITTEN CONSENT OF THIS FIRM AND SHALL BE RETURNED TO OUR OFFICE IF REQUIRED.

PROJECT

**MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR**

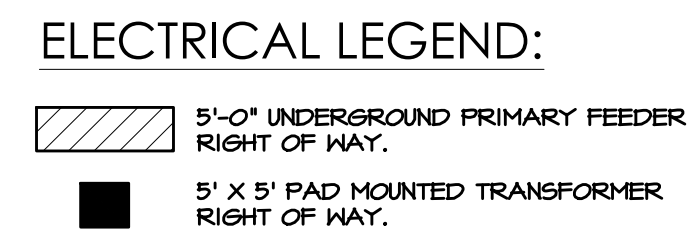
TITLE

**NEW ELECTRICAL
SITE PLAN (PARTIAL)
RIGHT OF WAY**

PAGE

ES-103A

OF



 **e figueroa p.s.c.**
INGENIEROS CONSULTORES
Repto: El Veterano, Calle A #195, San Juan, PR 00926
Tels. 787.204.4934 • 787.458.3826

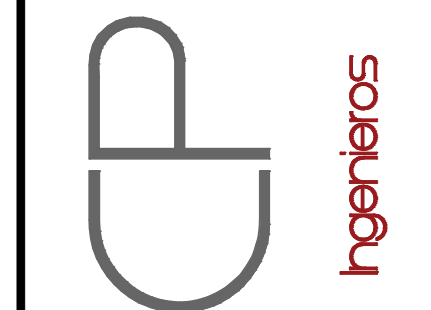
CALLE COSTA 391
OFFICE 201
SAN JUAN PR 00918
T/ 787 220 8633
E/ luiscamanos@gmail.com



CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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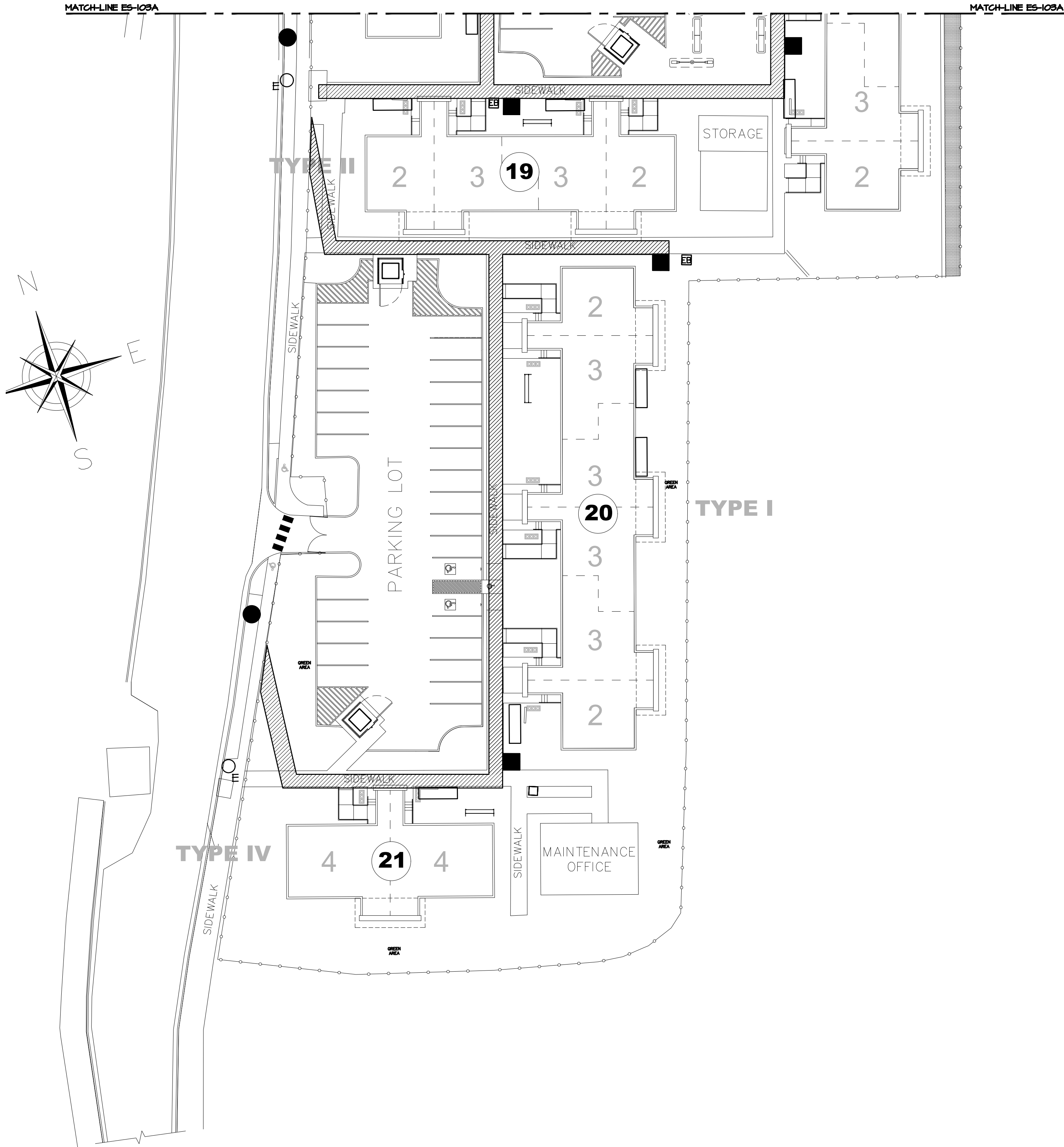
PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
NEW ELECTRICAL
SITE PLAN (PARTIAL)
RIGHT OF WAY

PAGE
ES-103B

OF

Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Num. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier falsificación de los hechos que se haya producido sin mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria de la OIGPE y de las autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPE.



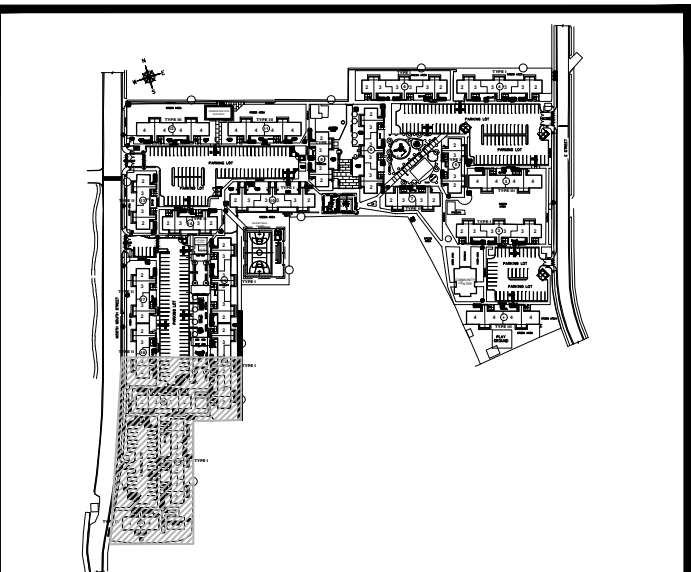
ELECTRICAL LEGEND:

- 5'-0" UNDERGROUND PRIMARY FEEDER RIGHT OF WAY.
- 5' X 5' PAD MOUNTED TRANSFORMER RIGHT OF WAY.

NEW ELECTRICAL SITE PLAN (PARTIAL) - RIGHT OF WAY DISTRIBUTION
SCALE: 1:400

e figueroa p.s.c.
INGENIEROS CONSULTORES
República, El Ventanero, Calle A #105, San Juan, PR 00924
T/ 787 220 8633
E/ luiscamano@gmail.com

CAMANO
INGENIERO
CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com



KEY PLAN NOT TO SCALE

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

1. I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PRESENT THESE CONSTRUCTION PLANS TO PREPA.

2. IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, AND/OR IN CONSTRUCTION PLANS CERTIFICATION LAW, I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: **18423 P.E.**
LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: **MIRADOR LAS CASAS-APART.**
PROJECT NUMBER: **IT-I-248** LINDA GONZALEZ BUSTAMANTE

ENDORSED BY:	REVISION	DATE
	1	
	2	
	3	
	4	

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

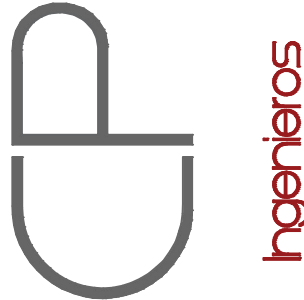
2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. FURTHER, THIS ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL FROM COMPLIANCE WITH STATUTE DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS FROM PREPA AND OTHER GOVERNMENT AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION REGIME.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS IF ELECTRICAL WORKS HAVE BEGUN DURING THIS TERM. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT WEST CORP.	
DESIGN E. FIGUEROA	
DRWN BY J.I.R.C.	
CHK'D BY E. FIGUEROA	
DATE OCT.15.18	
REVISIONS	
1	5.24.17
CERTIFIED CORRECT	

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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PROJECT

**MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR**

NEW LOW PROFILE PAD MOUNTED TRANSFORMER, 10, 1620 GR. Y-120/240V. OIL IMMERSED SELF COOLED, KVA AS SHOWN, DEAD FRONT TYPE, PREPA APPROVED INSTALLATION AS PER PREPA STD. USE URD-20-222-21-A WITH 2-2 1/2" TAPS ABOVE AND 2-2 1/2" TAPS BELOW RATED VOLTAGE. NON-PCB STAINLESS STEEL.

EXISTING OVERHEAD PRIMARY LINE, 3PH, 4W, 4.16 KV., TO REMAIN.

NEW OVERHEAD PRIMARY LINE 13.2 KV, 3PH, 4W, 4 NO, 3/0 AGAR CABLE INSTALLED ABOVE EXISTING 4.16 KV LINE.

PRIMARY UNDERGROUND LINE-10-1620 V, CONSISTING OF ONE 2 AWG COPPER, 15 KV, TXLPE, SHIELDED, LLDTPE JACKET #1-8 2 CONDUCTOR, 600V INSTALLED AT 40' BELOW FINISHED GRADE IN 2" PVC SCHED. 40 CONDUIT PREPA STD. URD-10 .

SINGLE PHASE UNDERGROUND SECONDARY FEEDER 120/240 VOLTS. 3-C COPPER, 1620 VOLTS XLPE #2 G TYPE CONDUCTORS IN PVC SCH40 CONDUIT LOCATED AT A MINIMUM DEPTH OF 36" BELOW FINISH GRADE, SIZE OF CONDUCTORS AND CONDUITS AS INDICATED ON DRAWINGS.

SINGLE PHASE UNDERGROUND LIGHTING CABLE WITH XLPE-600V INSULATION 2/C #10 AWG COPPER, CABLES 600 VOLTS TYPE CONDUCTORS IN 1" PVC. CONDUIT LOCATED AT A MINIMUM DEPTH OF 36" BELOW FINISH GRADE.(OTHER SIZES AS SHOWN ON DWGS)

SQUARE CONCRETE POLE. SIZE AND TYPE AS INDICATED.

LED LUMINAIRE FOR STREET LIGHTING, FULL CUTOFF W50W. LAMP. 120V. REACTANCE HIGH POWER FACTOR BALLAST TYPE II E.S. DISTRIBUTION , BUILT-IN NEMA STD. RECEPTACLE FOR THISTLOCK ELECTRONIC CONTROL, GROUNDING LUG, CLOSED ACRYLIC REFLECTORS, 4'-0" ARM. SUITABLE FOR MOUNTING ON A 33'-0" ORNAMENTAL POLE STD. STL-I. SEE DETAIL. SHALL COMPLY W/TECHNICAL COMMUNICATE 16-03 AND 16-04.

SAME AS ABOVE BUT MOUNTED ON 40' OR 45' CONCRETE POLE. PREPA STD. STL-II

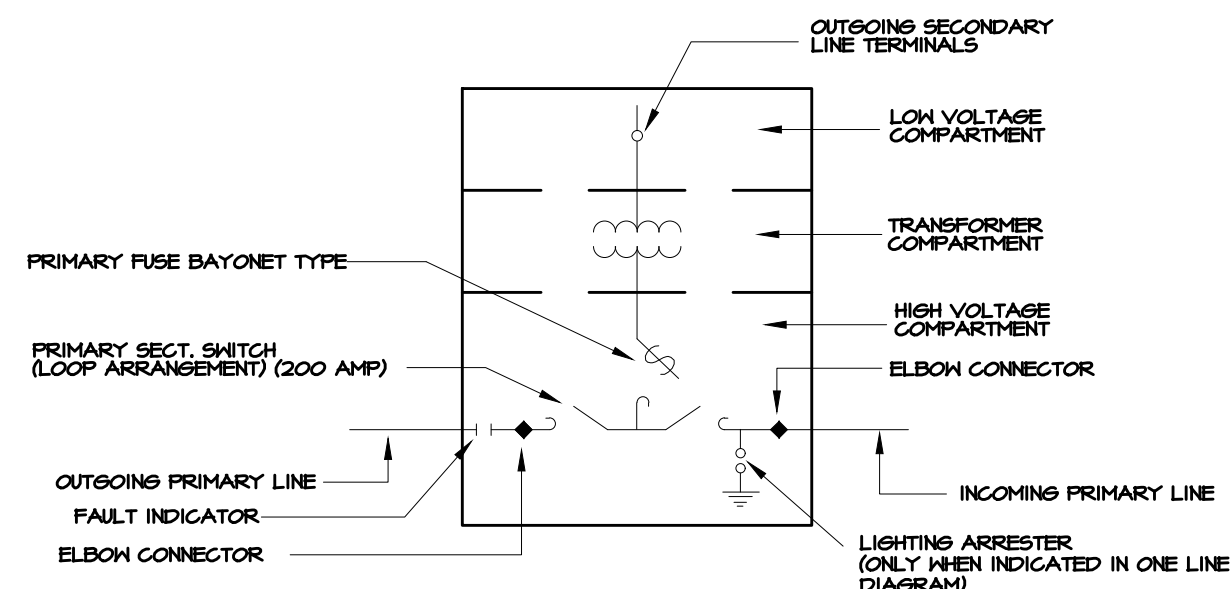
CONCRETE PRIMARY PULL BOX, URD 30B, 30C STD.

NEW PRIMARY DOWN GUY WIRE, PREPA STD. E-1-2-2, FI-1.

PAD MOUNTED TRANSFORMER RIGHT OF WAY. SEE DETAIL.

200W LED LIGHT FIXTURE MTD. ON ROOF OVERHANGS (APPROX. 25 FEET), EQUAL TO LEDVANCE OSRAM MODEL 86385.

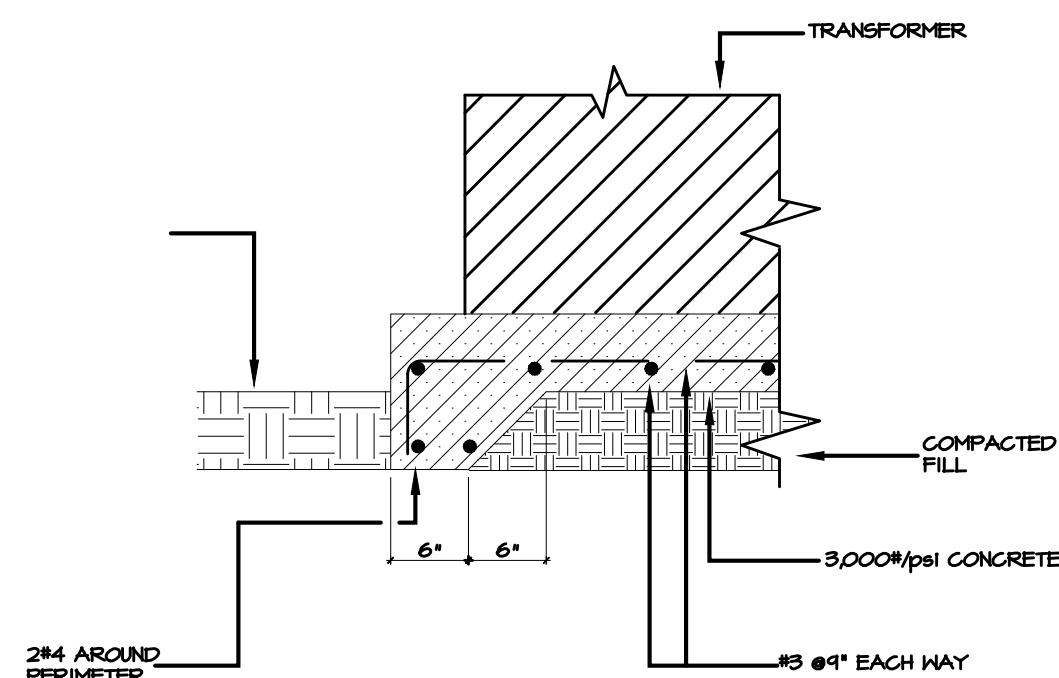
EXISTING PREPA POLE TO BE REMOVED. 4.16 KV PRIMARY LINES SHALL BE TRANSFERRED TO NEW CONCRETE POLES.



NOTES:

- 1- TRANSFORMERS TO BE STAINLESS STEEL..
- 2- LIGHTNING ARRESTER TO BE METAL OXIDE, ELBOW-TYPE PREPA APPROVED.
- 3- PADMOUNTED TRANSFORMERS SHALL BE OF THE DEAD FRONT TYPE

TRANSFR. NO.	ΦA	ΦB	ΦC	DROPS
T-1	75	-	-	12
T-2	75	-	-	13
T-3	75	-	-	12
T-4	75	-	-	13
T-5	75	-	-	12
T-6	75	-	-	12
T-7	-	75	-	12
T-8	-	75	-	12
T-9	-	75	-	12
T-10	-	75	-	12
T-11	-	75	-	12
T-12	-	75	-	12
T-13	-	-	75	12
T-14	-	-	75	12
T-15	-	-	75	12
T-16	-	-	50	1
T-17	-	-	75	13
T-18	-	-	75	12
T-19	-	-	75	12
T-20	75	-	-	12
T-21	75	-	-	12
T-22	75	-	-	12
T-23	-	75	-	12
T-24	-	75	-	12
T-25	-	75	-	12
T-26	-	-	75	12
T-27	-	-	75	12
TOTAL	675	675	650	303 2000



6" CONCRETE BASE, 2" ABOVE AND 4" BELOW FINISH GRADE.

30"

30"

PROPERTY LINE

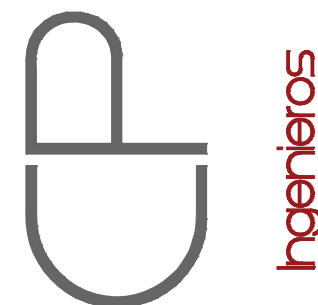
OPFTE 2017-154039-SRI-013754																			
<h2 style="margin: 0;">DESIGNER'S CERTIFICATION</h2>																			
<p>1. I CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COUNCIL OF PROFESSIONS AND AUTHORIZED BY THIS PROJECT'S OWNER TO PRESENT THIS CERTIFICATION TO THE PROJECT'S ARCHITECT.</p> <p>2. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p> <p>3. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p> <p>4. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p>																			
DESIGNER'S SIGNATURE AND SEAL		15423 P.E. LANCE HUBBARD																	
PURBITE PUBLIC POWER AUTHORITY <h2 style="margin: 0;">ENDORSEMENT</h2>																			
<p>PROJECT NAME: MIRADOR LAS CASAS APART.</p> <p>PROJECT NUMBER: TH-245</p>																			
ENDORSED BY: _____		REVIEW _____ DATE _____																	
<table border="1" style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>																			
<p>1. I PREPARE ENDORSED THE ELECTRIC DESIGN DRAWINGS IN THESE CONSTRUCTION PERMITS BASED ON THE CERTIFICATION PREPARED BY THE DESIGNER OR ARCHITECT RESPONSIBLE FOR THE PROJECT'S DESIGN, AS AMENDED.</p> <p>2. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p> <p>3. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p> <p>4. I AM AWARE THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN. I CERTIFY THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN, AND THAT THE PROJECT'S DESIGN IS BASED ON THE ASSUMPTIONS AND CONDITIONS OF THE PROJECT'S DESIGN.</p>																			

REVISIONS	
1	5.24.17
CERTIFIED CORRECT	

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE	DETAILS
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PAGE
ES-201
- OF -

Certificación: Yo, Ing. Enrique Figueroa Santos-Buñ, Ingeniero Licenciado Núm. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria que la INCEP o otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la INCEP.



e figueroa p.s.c.
INGENIEROS CONSULTORES
Repto, El Veterano, Calle A #195, San Juan, PR 00926
Tels. 283.204.6934 • 787.448.3824

CAMANO
architecture
CALLE COSTA 391
OFFICE 201
SAN JUAN PR 00918
T/ 787 220 8633
E/ luiscamanos@gmail.com

NOTAS GENERALES

- ESTOS PLANOS COINCIDEN CON LOS PLANOS DE INSCRIPCION RADICADOS EN LA ADMINISTRACION DE REGLAMENTOS Y PERMISOS (ARPE).
- EL DUEÑO DEL PROYECTO ES RESPONSABLE DE GESTIONAR Y OBTENER, ANTES DE LA FECHA DE COMIENZO DE LA OBRA, TODOS LOS ENDOSOS, PERMISOS Y SERVIDUMBRES REQUERIDAS POR ENTIDADES SUBNACIONALES, ESTATALES, MUNICIPALES, FEDERALES Y PRIVADAS CONCERNIENTES AL DESARROLLO DEL TIPO DE PROYECTO PROPUESTO.
- EL DUEÑO DE ESTA OBRA TIENE QUE CONTRATAR LOS SERVICIOS DE UN INGENIERO LICENCIADO Y COLEGIADO QUE INSPECCIONE LA CONSTRUCCION DE LAS OBRAS ELECTRICAS DE ACUERDO CON LA LEY N.M. 7 DEL 14 DE JULIO DE 1985, SEGUN ENMIENDADA Y CON EL REGLAMENTO DE CERTIFICACION DE PLANOS DE PROYECTOS DE CONSTRUCCION ELECTRICA DE LA AEE VIGENTE. EL DUEÑO TENDRA QUE NOTIFICAR A LA AEE LA DESIGNACION DE ESTE INSPECTOR PRIVADO ANTES DEL COMIENZO DEL PROYECTO.
- LA ELECCION DE LAS OBRAS ELECTRICAS, SEGUN DISEÑADAS EN ESTOS PLANOS, DEBERA OBSERVAR LA MEJOR PRACTICA DE LA INDUSTRIA ELECTRICA Y CONSTRUCCION DE ACUERDO CON LAS NORMAS Y REGLAMENTACION ADOPTADAS POR LA AEE Y AGENCIAS CONCERNIENTES, AL IGUAL QUE CON LOS CODIGOS, NEC Y NESC, Y DEMAS ESTANDARES DE IEEE, NFPA, NEMA Y ANSI ADOPTADOS.
- EL CONTRATISTA NO ESTA AUTORIZADO A HACER VARIACIONES A ESTE DISEÑO. ES RESPONSABILIDAD DEL CONTRATISTA CONSULTAR CON EL DISEÑADOR O INSPECTOR DESIGNADO PARA ESTA OBRA CUALQUIER GUADA QUE SURJA DE LA INTERPRETACION DE LOS PLANOS, DE LA EJECUCION DE LAS OBRAS PROPUESTAS, ESPECIFICACIONES TECNICAS O DISCREPANCIAS ENTRE LAS CONDICIONES EXISTENTES EN EL CAMPO Y AQUELLAS UTILIZADAS PARA PROPÓSITOS DE DISEÑO.
- EL DUEÑO O CONTRATISTA ELECTRICO NOTIFICARA A LA AEE EL COMIENZO DE ESTAS OBRAS, MEDIANTE LA ESTREBA DEL DOCUMENTO NOTIFICACION DE COMIENZO DE PROYECTO EN EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE, CON POR LO MENOS QUINCE DIAS DE ANTICIPACION A LA FECHA PROPUESTA.
- EL INSPECTOR PRIVADO Y EL CONTRATISTA ELECTRICO SON RESPONSABLES DE ASISTIR A UNA REUNION DE PRECONSTRUCCION A COORDINARSE CON EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE.
- TODOS TRABAJOS A REALIZARSE EN LINEAS ENERGIZADAS, INCLUYENDO LA CONEXION DE ESTA OBRA, TIENE QUE SER REALIZADO POR LAS AEE. EL PROPONENTE TIENE QUE ASUMIR TODOS LOS COSTOS DE EQUIPO, MATERIALES Y LABOR. EL PROPONENTE TIENE QUE SOLICITAR A LA AEE UN ESTIMADO PARA ESTOS TRABAJOS EL CUAL TENDRA UNA VIGENCIA DE TRES MESES DESDE SU EXPEDICION.
- SE PROHIBE LA REALIZACION DE CUALQUIER TIPO DE TRABAJO EN LAS FRANJAS DE SERVIDUMBRE ELECTRICA SIN LA AUTORIZACION POR ESCRITO DE LA AEE.
- LA AEE NO APROBARA LA CONEXION DE PROYECTOS CON CONDICIONES DE INVASION DE SERVIDUMBRE O QUE NO CUMPLAN CON LOS DESPLEGOS DE SEGURIDAD REQUERIDOS.

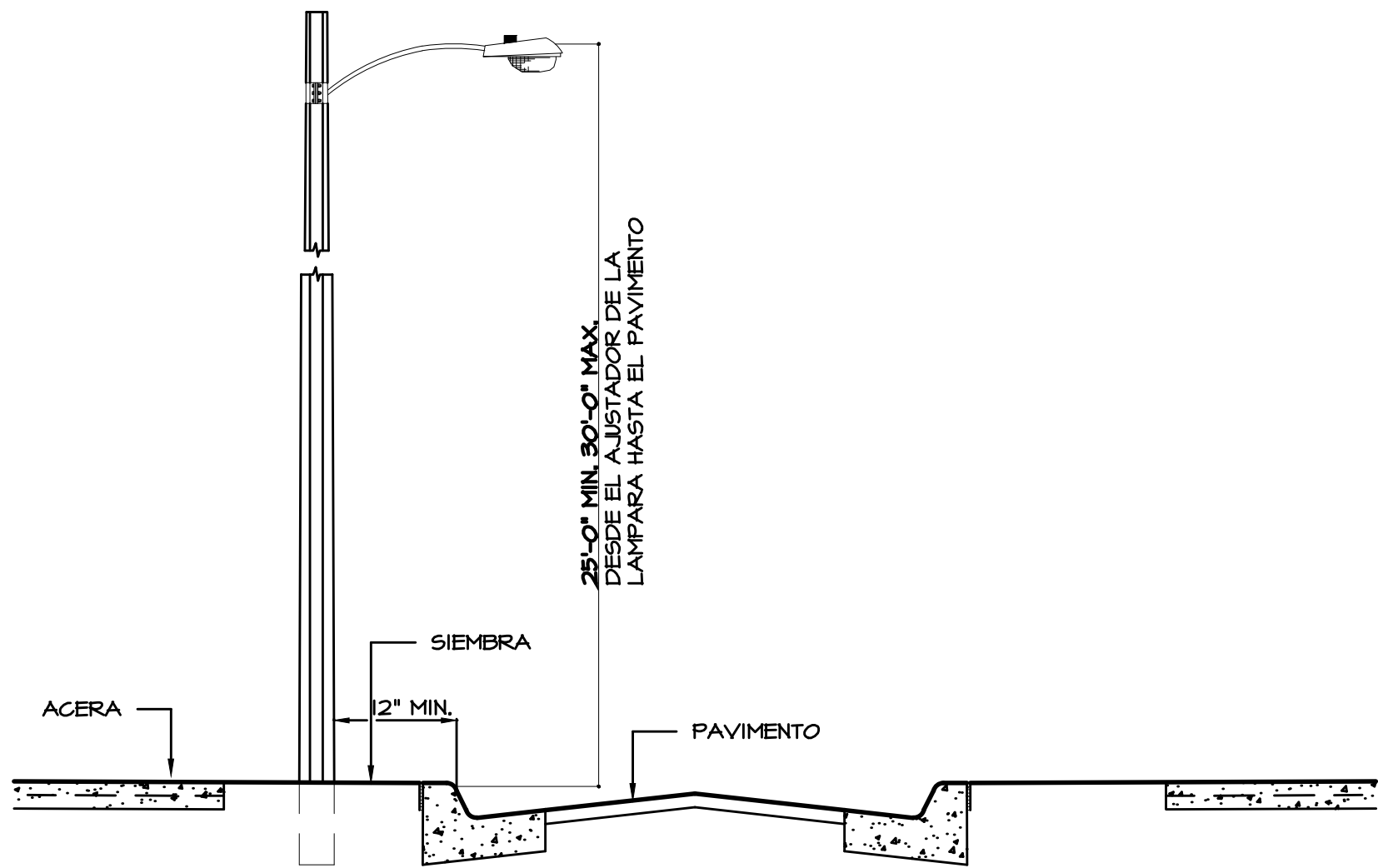
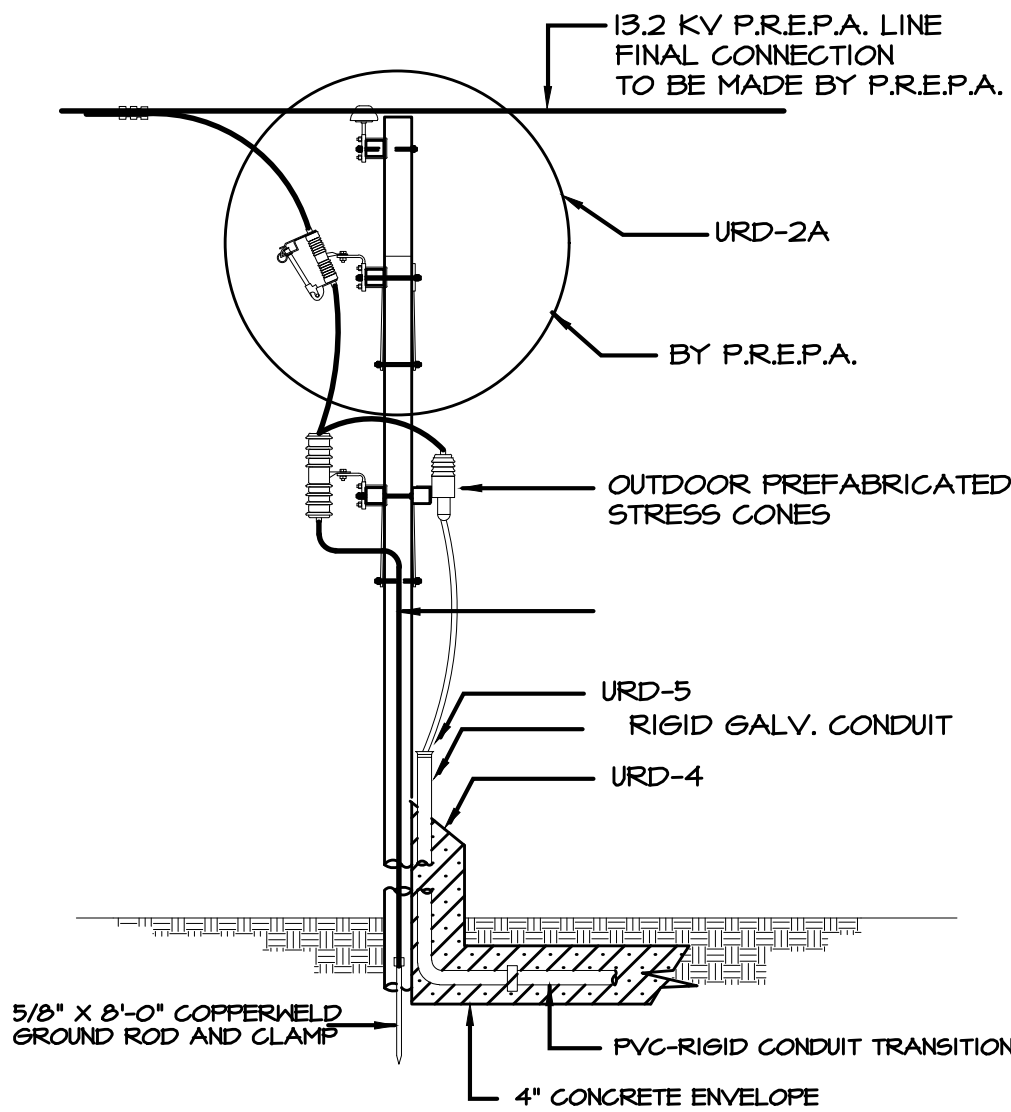
NOTAS ESPECIALES

- EL CONTRATISTA DEL PROYECTO APORTARA A LA AEE:
 - LA CANTIDAD DE MATERIAL PARA MEJORAR AL SISTEMA ELECTRICO EXISTENTE.
 - LAS OBRAS REQUERIDAS EN LA EVALUACION PARA ESTE PROYECTO.ESTA APORTACION SE REALIZA SEGUN LA CARGA PROPUESTA DE ACUERDO CON EL REGLAMENTO PARA DETERMINAR Y COBRAR LAS APORTACIONES DE PERSONAS O INSTITUCIONES EN PROYECTOS DE DESARROLLO VIGENTE. Y SE AGRENTARA A LA CUENTA #41610.
 - LA AEE NO CONECTARA EL PROYECTO A SU SISTEMA ELECTRICO HASTA TANTO EL DUEÑO CONSTITUYA LAS SERVIDUMBRES REQUERIDAS DE ACUERDO CON EL REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA. ESTA NOTA APLICA A TODA SERVIDUMBRE REQUERIDA, YA SEA DENTRO COMO FUERA DE LOS LIMITES DEL PROYECTO.
 - LA INSTALACION DE SISTEMAS DE MEDICION TIENE QUE COORDINARSE CON LA OFICINA DE MEDICION DE LA REGION CORRESPONDIENTE. EL CONTRATISTA ELECTRICO TIENE QUE ASEGURARSE DE CONSULTAR CON ESTA OFICINA SOBRE LOS EQUIPOS Y MATERIALES A UTILIZARSE ADENAS DE LA UBICACION DEL EQUIPO.
 - LA INSTALACION DE SUBESTACIONES, TRANSFORMADORES U OTRO EQUIPO ELECTRICO SOBRE SISTEMAS DE ALICANTALLADO, LINEAS DE AGUA U OTRAS UTILIDADES ESTA PROHIBIDA.
- MATERIALES**
- TODOS LOS EQUIPOS A UTILIZARSE EN LA CONSTRUCCION TIENEN QUE CUMPLIR CON LOS ESTANDARES DE IEEE, ANSI, NEMA Y ASTM.
 - EL CONTRATISTA ES RESPONSABLE DE VERIFICAR CON LA AEE QUE TODO MATERIAL O EQUIPO A UTILIZARSE ESTE APROBADO POR LA AEE PREVIO A SU INSTALACION. LA AEE SE RESERVA EL DERECHO DE ACEPTAR CUALQUIER EQUIPO QUE SE LE VAYA A TRANSFER.
 - TODOS EQUIPO Y MATERIAL (INCLUYENDO TRANSFORMADORES Y GABINETES DE SUBESTACIONES) A SER INSTALADOS A UNA MILLA O MENOS DE DISTANCIA DE CUERPOS DE AGUA SALADA TIENE QUE SER CONSTRUICDO EN ACERO INOXIDABLE, CON EXCEPCION DE LAS BASES DE MEDIDORES.
 - EN LOS SISTEMAS SOTERRADOS, TIENEN QUE UTILIZARSE CABLES PRIMARIOS CON TERMINACIONES DE 15 KV PARA VOLTAJES DE DISTRIBUCION Y DE 46 KV PARA LINEAS DE 38 KV.
 - EN LOS SISTEMAS AEREOS, TIENEN QUE UTILIZARSE AISLADORES DE POLIMERO DE 15 KV PARA VOLTAJES DE DISTRIBUCION Y DE 46 KV PARA LINEAS DE 38 KV.
 - EL CONTRATISTA SERA RESPONSABLE DE ROTULAR TODO TRANSFORMADOR A SER TRANSFERIDO A LA AEE CON UN NUMERO DE PROPIEDAD PROVISTO POR EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.

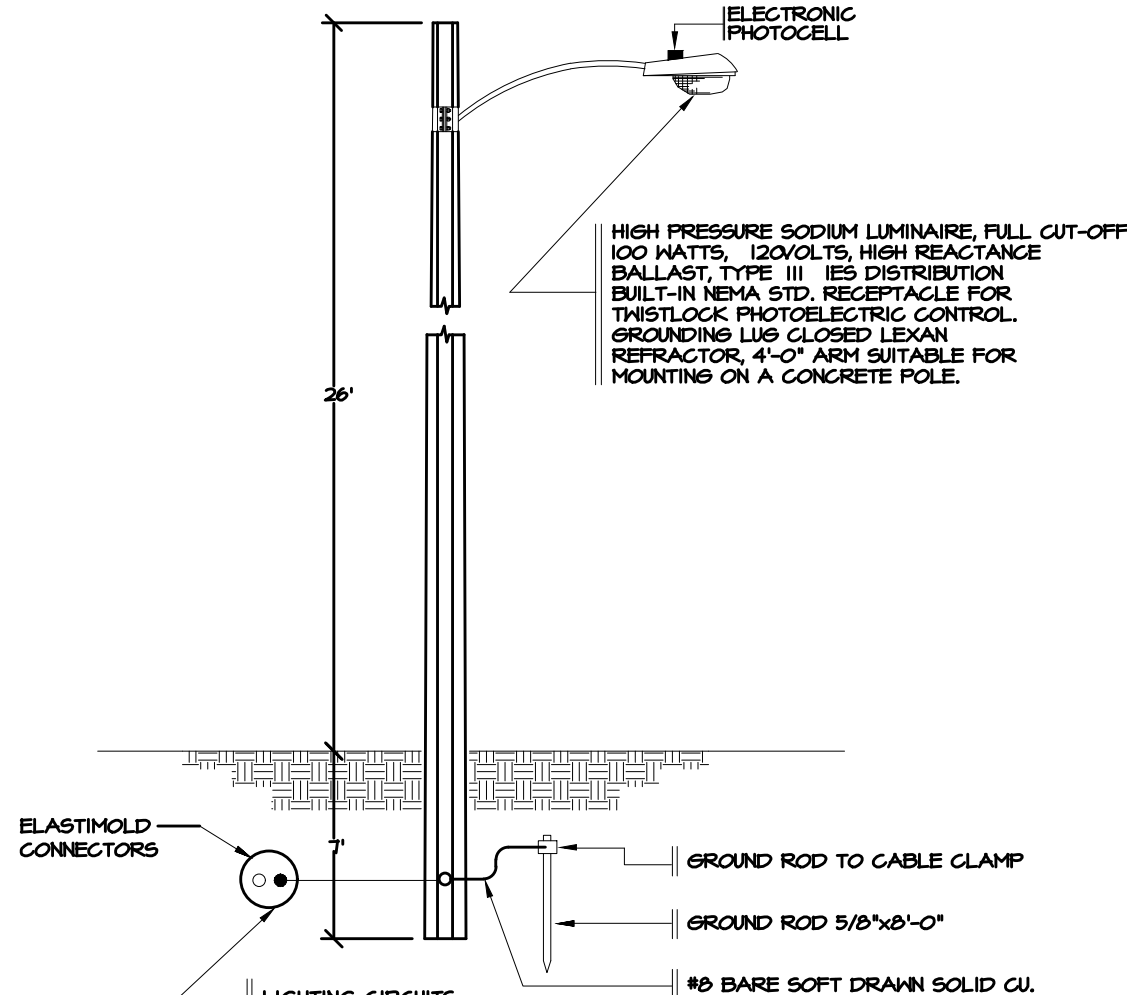
SISTEMAS

- EL CONTRATISTA DEL PROYECTO ES RESPONSABLE DE REALIZAR LAS PRUEBAS DE LOS CABLES PRIMARIOS Y SECUNDARIOS CON SUS TERMINACIONES. LOS RESULTADOS DE ESTAS PRUEBAS TIENEN QUE ESTAR DE ACUERDO CON LOS PARAMETROS ESTABLECIDOS POR LA AEE PARA LAS MISMAS. ESTAS PRUEBAS TIENEN QUE REALIZARSE EN COORDINACION CON UN REPRESENTANTE DE LA OFICINA DE INSPECCIONES DEL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.
- DURANTE LA INSTALACION DEL CABLE, ESTE DEBE ESTAR PROTEGIDO DE LA HUMEDAD Y ABRASIONES. EL CONTRATISTA ES RESPONSABLE DE INSTALAR EL CABLE MEDIANTE LAS PRACTICAS RECOMENDADAS DE HALADO PARA NO EXCEDER LA TENSION ESPECIFICADA PARA EL CABLE.
- LAS TAPAS DE REGISTROS (MANHOLES) A SER INSTALADOS EN EL AREA DE SIEMBRA TIENEN QUE ESTAR PROTEGIDAS MEDIANTE UNA LOZA DE HORMIGON REFORZADO, SEGUN ESPECIFICADO EN EL PATRON URD-52.
- EN AQUELLOS CASOS DONDE EL PROYECTO ESTE LOCALIZADO A MENOS DE UNA MILLA DE CUERPOS DE AGUA SALADA, LOS CONDUCTOS AGUDENTES TIENEN QUE SER DE PVC SCHEDULE 80 O DE FIBERGLASS, SEGUN APROBADO POR LA AEE.
- LAS BANCADAS DEL SISTEMA SOTERRADO SERAN INSPECCIONADAS POR LA AEE ANTES DE SER CUBIERTAS Y COMPACTADAS.
- TODA BANCADA EXPUESTA A TRAFICO VEHICULAR TENDRA QUE SER PROTEGIDA CON HORMIGON. AQUELLAS QUE SE ENCUENTRAN CERCA DE INSTALACIONES DE OTRAS UTILIDADES TENDRAN UN DESPELLO MINIMO DE 15 PULGADAS DE ESTAS.
- LA CANTIDAD DE FUSIBLES DE REEMPLAZO QUE PROVEERA EL CONTRATISTA SERA LA MISMA CANTIDAD DE LOS INTALADOS EN CADA SUBESTACION.
- LOS CONECTORES QUE SE UTILIZAN PARA LA CONEXION A TIERRA DE ANTENAS Y SUBESTACIONES SERAN DE SOLDADURA EXOTERMICA (THERMO-WELED) O DE COMPRESION.
- EL CONTRATISTA PROVEERA CABLE DE HALADO (FISHWIRE) EN CADA CONDUCTO DE RESGUARDO.
- TODOS SISTEMAS DE DISTRIBUCION TENDRA UNA INSTALACION MAXIMA A TIERRA DE 10 OHMS. SE INSTALARA UNA VARILLA PARA CONECTAR A TIERRA EL NEUTRAL EN CADA CUATRO POSTES O CADA 1000 PIES Y EN TODOS LOS TRANSFORMADORES.
- CADA BASE DE HORMIGON PARA POSTE TIENE QUE INCLUIR DOS CONDUCTOS DE RESGUARDO PARA ISO FUTURO, SEGUN REQUERIDO POR LA AEE.
- LAS BASES PARA POSTES TIENEN QUE SER INSPECCIONADAS POR LA AEE EN SU ETAPA DE CONSTRUCCION.

ELECTRICAL SERVICE POLE
P.R.E.P.A STD'S URD-2A, 4, 5

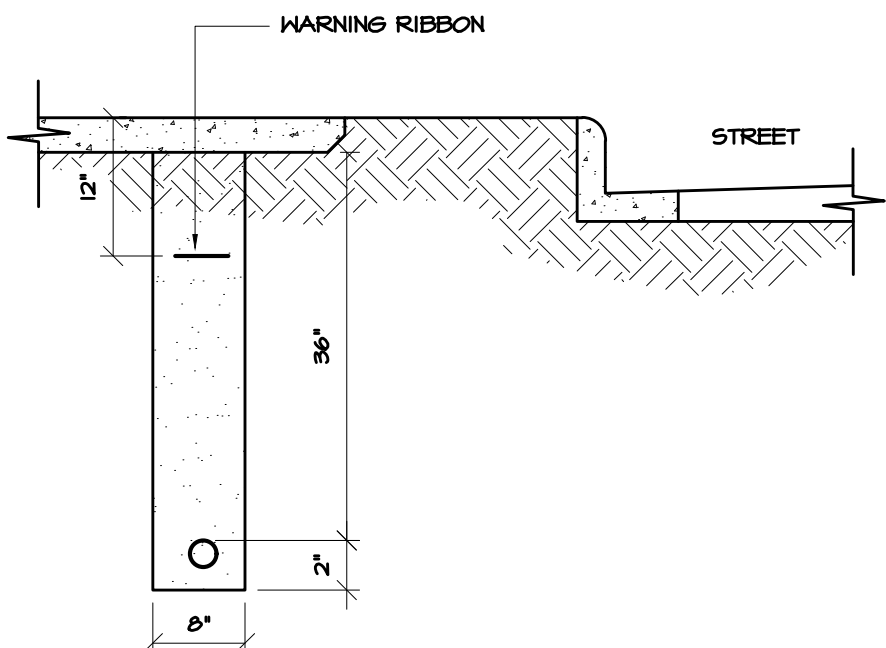


POLE INSTALLATION DETAIL

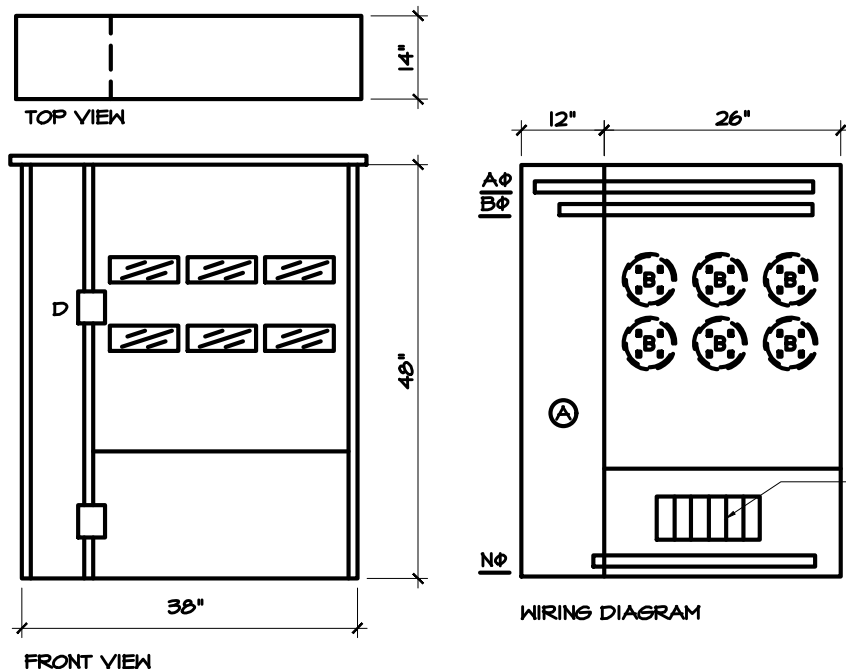


STREET LIGHTING OCTAGONAL CONCRETE POLE

• -200W HPS LUMINAIRE, 6FT. BRACKET ARM ON POWER POLE.

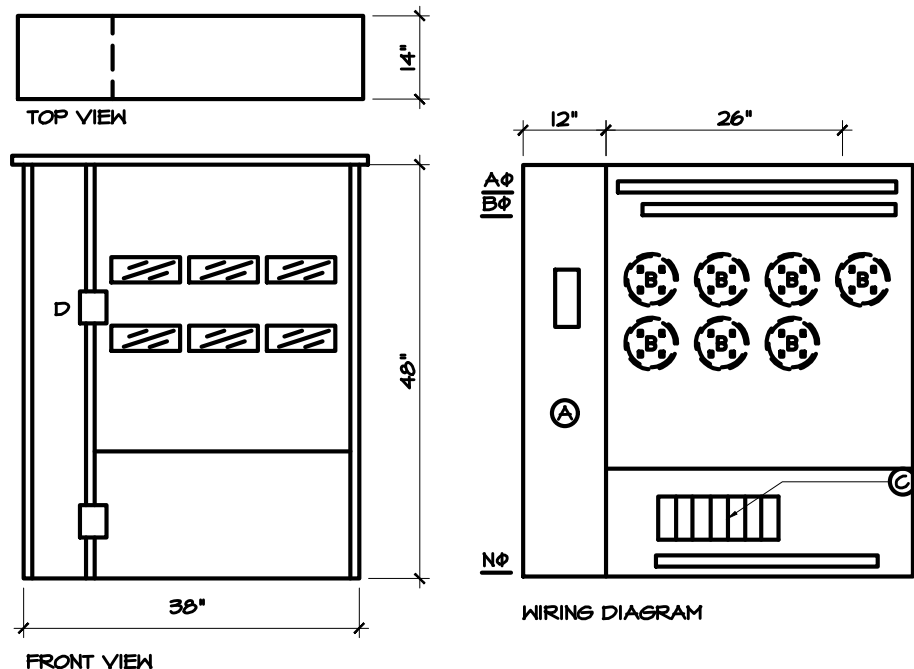


EXCAVATION DETAIL
UNDERGROUND SECONDARY FEEDER



METERBANK 6 POS.
VANDAL PROOF

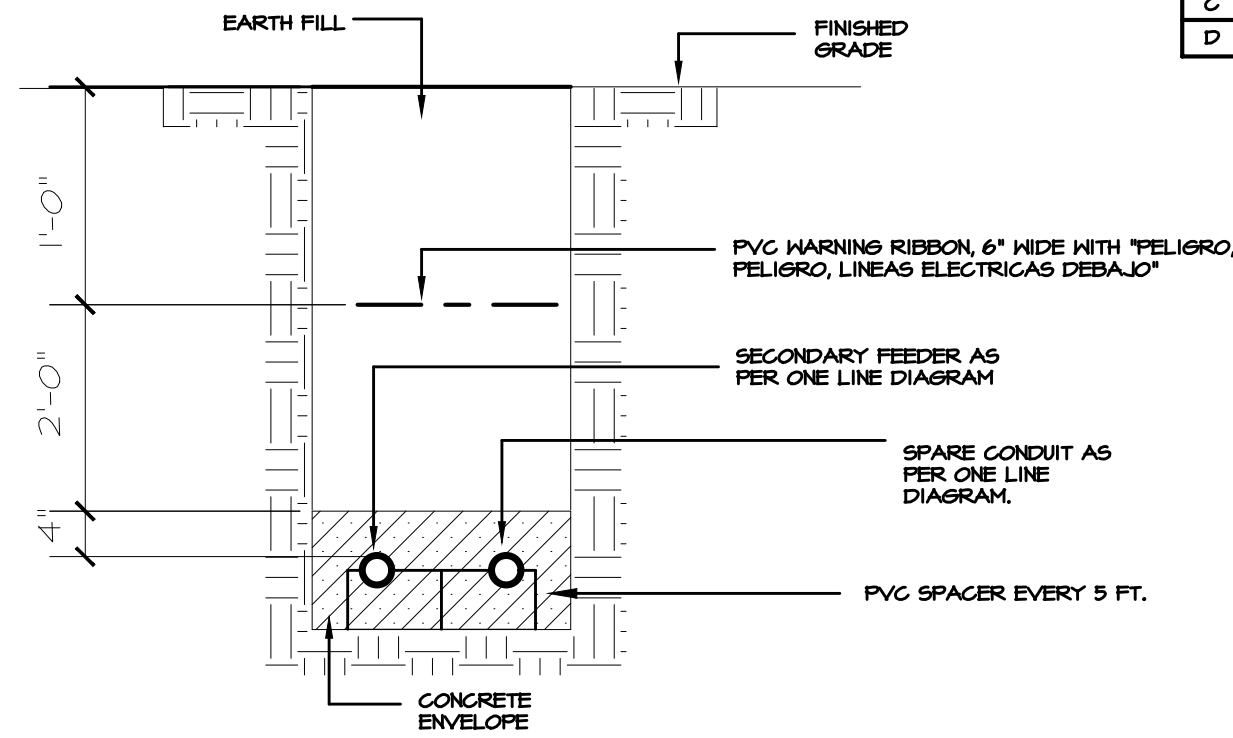
BILL OF MATERIAL				
ITEM	QTY.	MFRD	CAT. NO.	DESCRIPTION
A	1			INCOMING M.L.O. - 225 AMPS.
B	6			METER SOCKET 125A 4GLPIS
C	6	GE	THQ22100MLX	CKT./BKCR. 100A 2 POLES
D				PADLOCK PROTECTION COVER
*183M 120/240V				



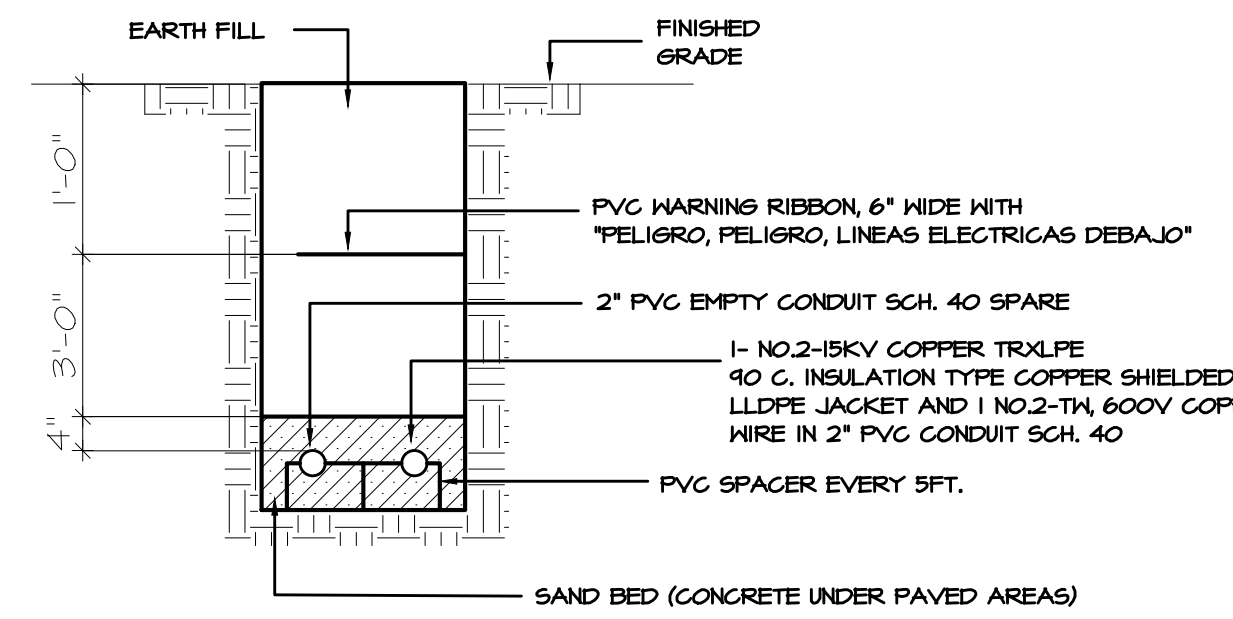
METERBANK 7 POS.
VANDAL PROOF

BILL OF MATERIAL				
ITEM	QTY.	MFRD	CAT. NO.	DESCRIPTION
A	1			INCOMING W225 AMP. MAIN BRK
B	7			METER SOCKET 125A 4GLPIS
C	7	GE	THQ22100MLX	CKT./BKCR. 100A 2 POLES
D				PADLOCK PROTECTION COVER
*183M 120/240V				

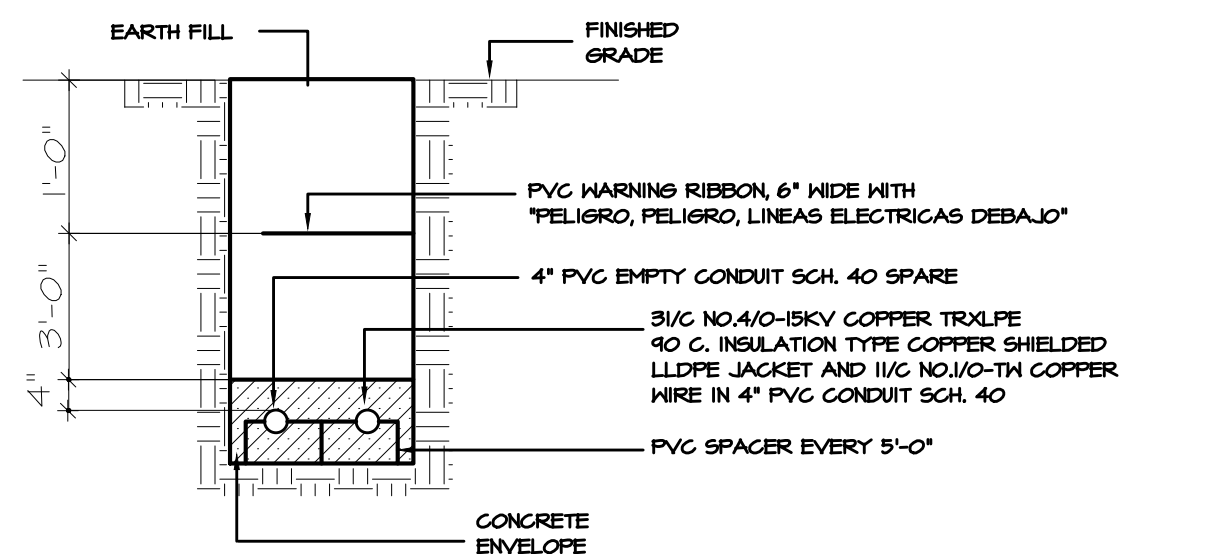
POLE CONSTRUCTION STANDARDS												
POLE	STD	HEIGHT	EXIST.	CP-1	CP-2	CP-3	CP-4	CP-5	CP-6	CP-B1	ME-3	ME-4
1	1	EXIST.										
2	2	EXIST.										
3	3	50'-4'-16"										
4	4	50'-4'-16"										
5	5	50'-4'-16"										
6	6	50'-4'-16"										
7	7	50'-4'-16"										
8	8	50'-4'-16"										
9	9	50'-4'-16"										



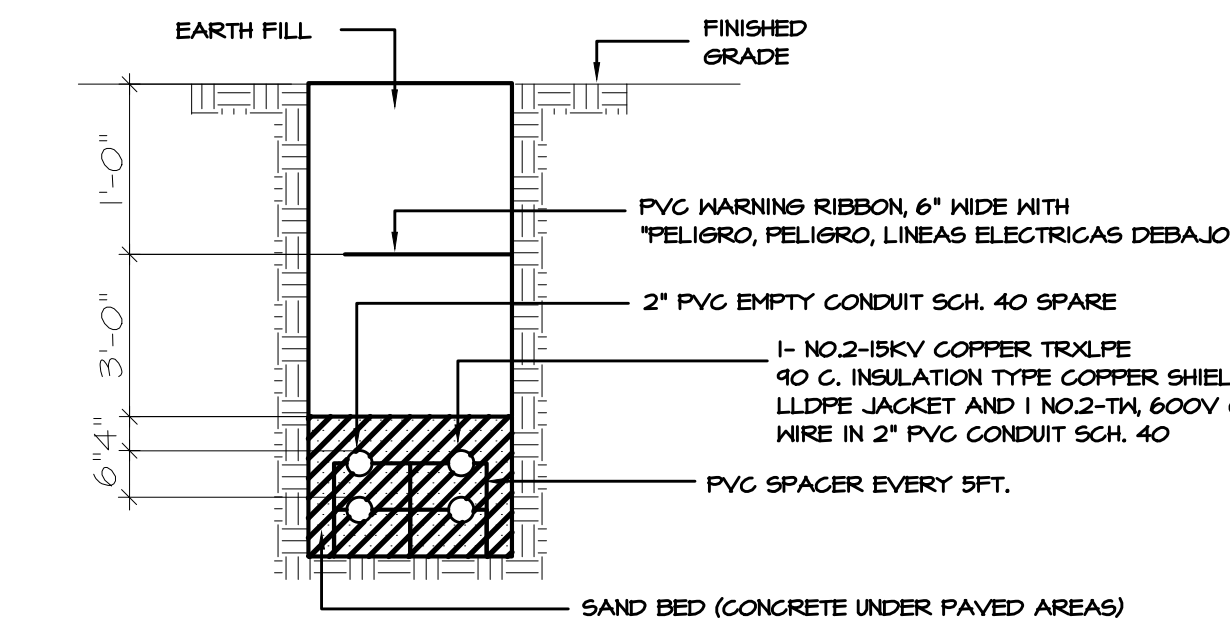
EXCAVATION DETAIL
SECTION "B-B"



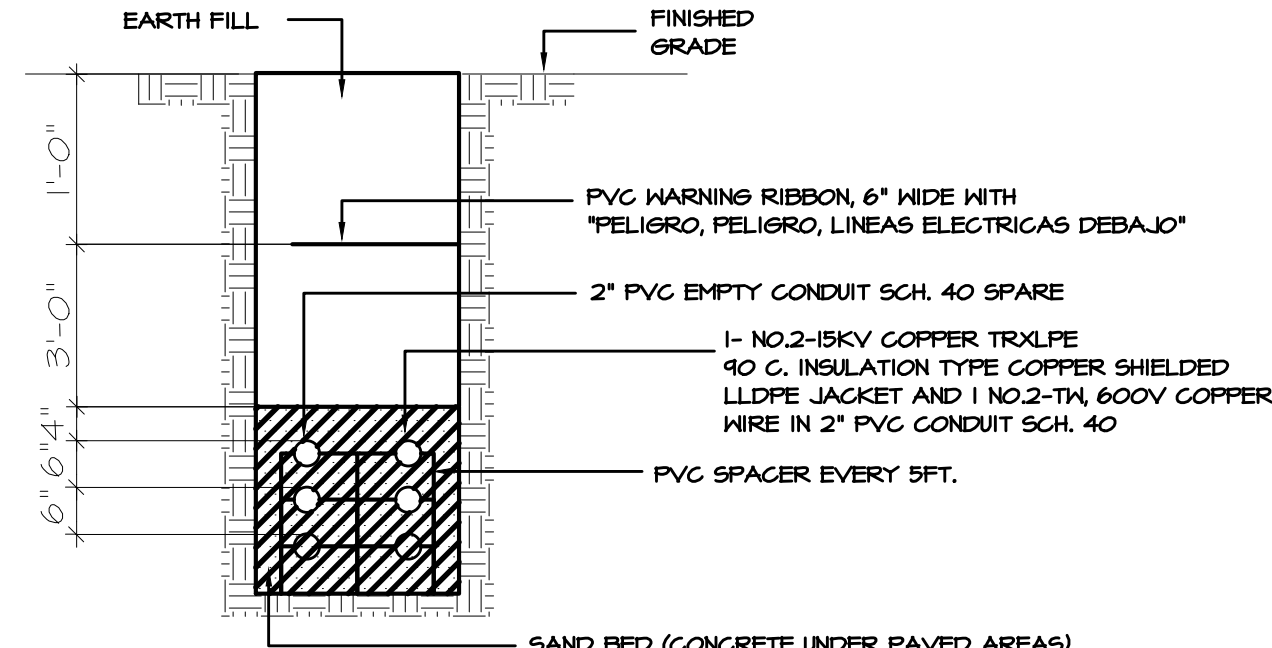
EXCAVATION DETAIL A1-A1
(1PH. PRIMARY FEEDER)



EXCAVATION DETAIL
(3PH. PRIMARY FEEDER)



EXCAVATION DETAIL A2-A2
(1PH. PRIMARY FEEDER)



EXCAVATION DETAIL A3-A3
(1PH. PRIMARY FEEDER)

06FE1201T-154033-SRI-013T54

DESIGNER'S CERTIFICATION

- I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS FOR REVIEW.
- IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, I HAVE PREPARED THESE CONSTRUCTION PLANS FOR REVIEW. I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL APPLICABLE CODES, STANDARDS, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT. I HAVE OBTAINED THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BEING.

DESIGNER'S SIGNATURE AND SEAL 18423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2000

PROJECT NUMBER: IT-1-248 2000

ENDORSED BY: REVISION DATE

1 2 3 4

1. PREPRA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPRA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPRA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PLANS. PREPRA'S ENDORSEMENT HELPS WITHIN THE BULLETIN FOR PROFESSIONAL REGULATION AND STANDARDS, DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT. I HAVE OBTAINED THE NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AS WELL AS FEDERAL AND STATE LAWS RULING BY THE CONSTRUCTION BEING.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS. IF ELECTRICAL WORK HAS BEGUN DURING THIS TIME, WITH PRIOR NOTIFICATION TO PREPRA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THIS TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

REVISIONS

NO.	DESCRIPTION	DATE
1	5.24.17	

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado
PO Box 314
Villalba, PR 00768
Tel. 787-462-3438
cpingenieros@outlook.com

CP
ingenieros

NOTE

THESE DRAWINGS AND ITS CONTENTS ARE THE INTELLECTUAL PROPERTY OF CARLOS M. PÉREZ RIVERA. THEY SHALL BE USED AS A REFERENCE DOCUMENT AND WORKING INSTRUMENT ONLY BY THE PROJECT OWNER TOTAL OR PARTIAL REPRODUCTION OR USE OF THESE PLANS, FOR OTHER PURPOSES BESIDES THIS PROJECT IS STRICTLY PROHIBITED WITHOUT THE APPROPRIATE WRITTEN CONSENT OF THIS FIRM AND SHALL BE RETURNED TO OUR OFFICE IF REQUIRED.

PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
ELECTRICAL SITE PLAN
DETAILS, SCHEDULES

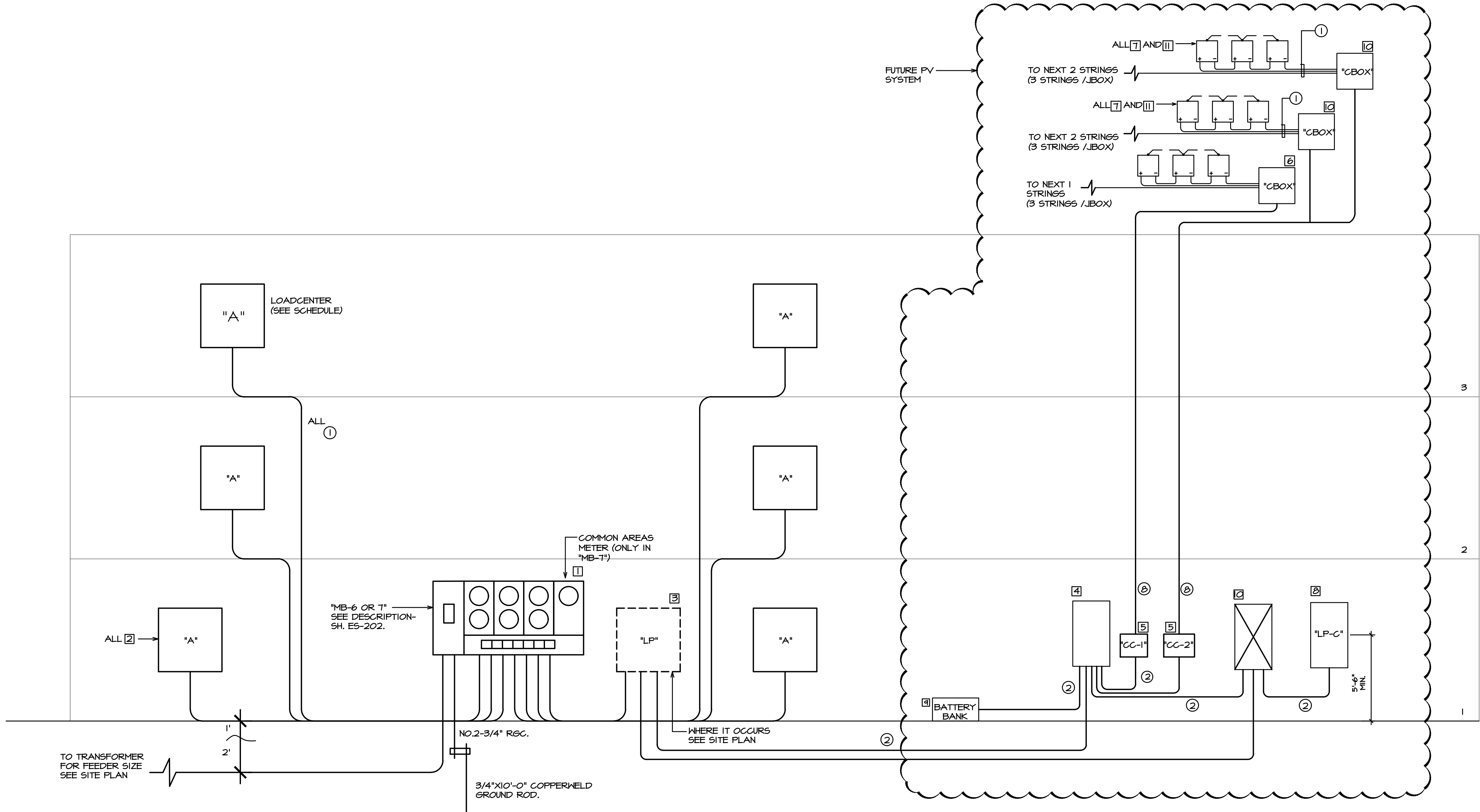
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ES-202
OF

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Villalba, Calle A #102, San Juan, PR 00920
Tel. 787-462-3438

CAMANO

CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00018
T/ 787 220 8633
E/ luiscamano@gmail.com

Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Num. 18022, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias. Afirmo que el presente documento es una copia verdadera y fiel de los planos y especificaciones originales. Reconozco que cualquier declaración falsa o falsificación de los hechos que yo sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPE y otras autoridades complementarias, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPE.



ELECTRICAL ONE LINE DIAGRAM
NOT TO SCALE

- 1 EXISTING METERBANK 120/240V, 1PH, 3W, 225 AMPS. TO REMAIN. REFER TO DETAILS AND DESCRIPTION SH. ES-202.
- 2 EXISTING LOADCENTERS TO REMAIN.
- 3 EXISTING COMMON AREAS PANELBOARD 120/240V, 1PH, 3W, 100 AMPS. CONTRACTOR SHALL ADD 1-2P-30 AMP. BREAKER FOR INVERTER AND 1-2P-30 AMP. BREAKER FOR MANUAL TRANSFER SWITCH
- 4 GRIDTIED W/BATTERY BACKUP INVERTER EQUAL TO OUTBACK 4048, 4000W, 120/240V OUTPUT VOLTAGE.
- 5 MPPT CHARGE CONTROLLER 80 AMPS, 150V. SIMILAR TO OUTBACK.
- 6 COMBINER BOX FOR STRING GROUPING AND WIRE TRANSITIONS.
- 7 330W SOLAR MODULE
- 8 NEW CRITICAL LOADS PANELBOARD. REFER TO SCHEDULE.
- 9 BATTERY BANK CONSISTING OF 8-525 AHR, 6V (1 STRINGS), BATTERIES, SIMILAR TO OUTBACK SEALED BATTERIES.
- 10 MANUAL TRANSFER SWITCH FOR INVERTER BY PASS, 100 AMPS., 1 PH, 3W, NEMA 1 ENCLOSURE.
- 11 TIGO TS4 RAPID SHUTDOWN MODULES.

NOTES:

- 1 CONTRACTOR SHALL COORDINATE W/PREPA TECHNICAL DEPT. REMOVAL AND CONNECTION OF FEEDER AND SERVICE FOR NEW METERBASE.

- 1 EXISTING FEEDER TO REMAIN.
- 2 3 NO. 6 THHN, 1 NO. 8 GND - 1" EMT.
- 3 3 NO. 10 THHN, 3/4" EMT (RSC IF OUTDOOR).

SOLAR ARRAY NOTES:

- 1 NOT USED
- 2 CONDUCTORS:
A) ALL EXPOSED CONDUCTORS ARE USE-2, COPPER, PROPERLY SUPPORTED AND PROTECTED FROM PHYSICAL DAMAGE AS PER NEC 330.10(B)(4)(b) AND NEC 334.30.
B) ALL CONDUIT CONDUCTORS ARE THHN-2, COPPER CONDUCTORS.
C) GROUNDING CONDUCTOR SIZED PER NEC 640.45(A)
D) BONDING SHALL COMPLY WITH NEC 205, PART V.
E) METAL CABLE SLEEVES SHALL HAVE FITTINGS OR BUSHINGS TO PROTECT THE CABLE (NEC 300.4)
- 3 CONDUITS:
A) INSTALLED CONDUITS ABOVE GROUND ARE PVC SCH40 CONDUITS.
B) INSTALLED CONDUITS BELOW GROUND ARE PVC SCH40 CONDUITS.
C) METAL CABLE SLEEVES SHALL HAVE FITTINGS OR BUSHINGS TO PROTECT THE CABLE PER NEC 300.4 AND HAVE GROUND BUSHINGS TO ACCOMMODATE EFFECTIVE CONDUIT GROUNDING.
D) INSTALL EXPANSION FITTINGS ON ALL STRAIGHT ROOFTOP ALUMINUM CONDUIT RUNS OVER 150' (ONE 4" FITTING EVERY 500').
- 4 GROUNDING:
A) GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH NEC 250.50, 250.52(A)(2), 640.41-47.
B) THE METAL FRAME OF EACH MODULE IS EFFECTIVELY GROUNDING WITH LISTED GROUNDING STRIPS.
C) GROUNDING ELECTRODE CONDUCTOR INSTALLATION SHALL COMPLY WITH NEC 250.64.
D) ALL GROUNDING ELECTRODE CONDUCTORS ARE INSTALLED IN ONE CONTINUOUS LENGTH OR SPLICED BY IRREVERSIBLE EXOTHERMICALLY WELDED CONNECTORS PER NEC 250.64 (C).
E) GROUNDING ELECTRODE CONDUCTOR INSTALLATION SHALL COMPLY WITH NEC 250.64(E). METAL ENCLOSURE FOR GROUNDING ELECTRODE CONDUCTORS WILL BE ELECTRICALLY CONTINUOUS.
F) GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE ELECTRODE SHALL COMPLY WITH NEC 250.10.
G) PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS PER NEC 250.110, 250.118, 640.43.

- 5 SOLAR SYSTEM AND EQUIPMENT:
A) SOLAR SYSTEM INSTALLATION SHALL COMPLY TO NEC 690.
B) EQUIPMENT TO BE FULLY OR SERIES RATED FOR THE AVAILABLE FAULT CURRENT PER NEC 110.4.
C) PROVIDE WORKING CLEARANCE AT NEW AND EXISTING EQUIPMENT PER NEC 110.26, 3 FT. BETWEEN EXPOSED LIVE PARTS AND EFFECTIVELY INSULATED MATERIAL, 3 1/2 FT. BETWEEN EXPOSED LIVE PARTS AND GROUNDED PARTS, CONCRETE, ETC, 4 FT. BETWEEN EXPOSED LIVE PARTS.
30 INCH IN FRONT OF THE ELECTRIC EQUIPMENT (FOR THE LESS THAN 30 INCH IN WIDTH, OTHERWISE WIDTH OF THE EQUIPMENT).
D) TORQUING OF TERMINATIONS SHALL BE IN ACCORDANCE WITH THE EQUIPMENT LABEL AND PROOF OF TORQUE IS REQUIRED PRIOR TO FINAL PER NEC 110.3 (B).
E) ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY TO COMPLY WITH NEC 110.2 AND 110.3. MODULES SHALL BE TESTED TO UL 1741.

REQUIRED SIGNS - ALL SIGNS ENGRAVED PLASTIC WITH RED BACKGROUND AND WHITE LETTERS 3/8" MINIMUM PERMANENTLY ATTACHED ON OR ADJACENT TO EQUIPMENT.

PLAQUE ON DC DISCONNECT PER NEC 690.17
WARNING: PHOTOVOLTAIC POWER SOURCE
ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND LOAD SIDES
MAY BE ENERGIZED IN THE OPEN POSITION

LABEL ON ALL COMBINER BOXES, JUNCTION BOXES
AND CONDUIT, PER NEC 690.31(E)(3)
WARNING:
PHOTOVOLTAIC POWER SOURCE

DESIGNER'S CERTIFICATION

1. I, CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS TO PREPARE.
2. IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, AND/OR AS CONSTRUCTION PLANS, I CERTIFY THAT I HAVE PREPARED THE ELECTRIC DESIGN OF THIS PROJECT FOLLOWING ALL CODES, STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: 10423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2002

PROJECT NUMBER: IT-1-248

DATE: 10/15/2015

ENDORSED BY: REVISION DATE

1 2 3 4

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE PROJECTS. PREPA'S ENDORSEMENT RELIEVES WITHIN THE BULLETIN FOR PROFESSIONAL LIABILITY INSURANCE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS APPLICABLE TO PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS FROM THE DATE OF THE ENDORSEMENT. THE ENDORSEMENT WILL BE VALID UNTIL THE WORK IS COMPLETED. IN CASE THERE IS NO REGISTERED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

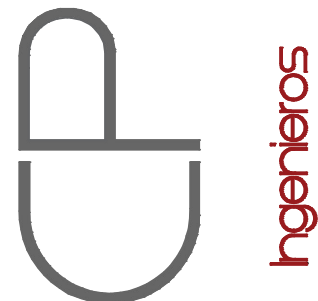
REVISIONS

1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado

PO Box 314
Villalba, PR 00768
Tel. 787-462-3438
cpingenieros@outlook.com



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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
ELECTRICAL ONE LINE
DIAGRAM

PAGE

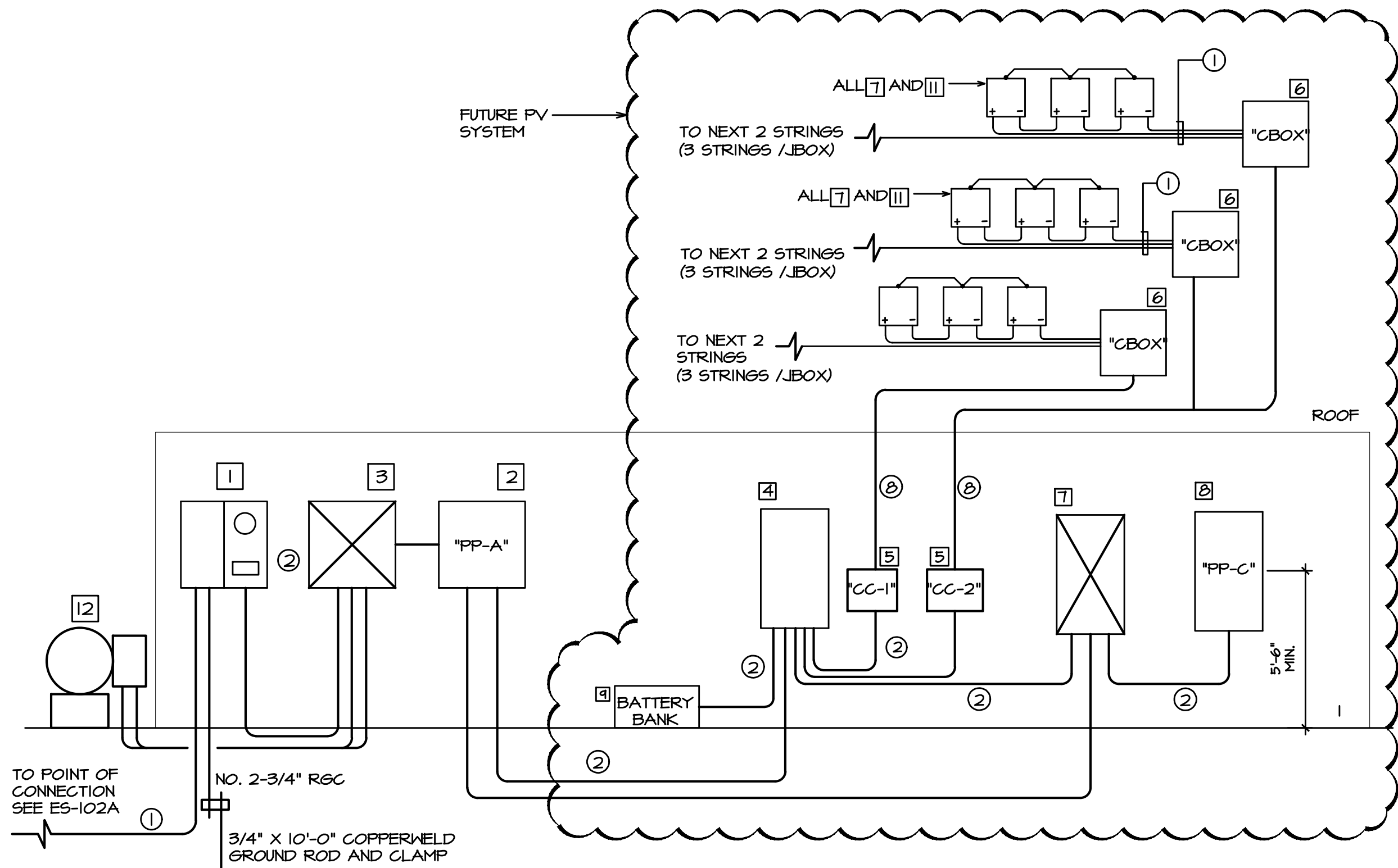
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OF

e figueroa p.s.c.
INGENIEROS CONSULTORES
República de Venezuela, Calle A #105, San Juan, PR 00924
Tel: 787-265-0000 Fax: 787-265-0001

CAMANO

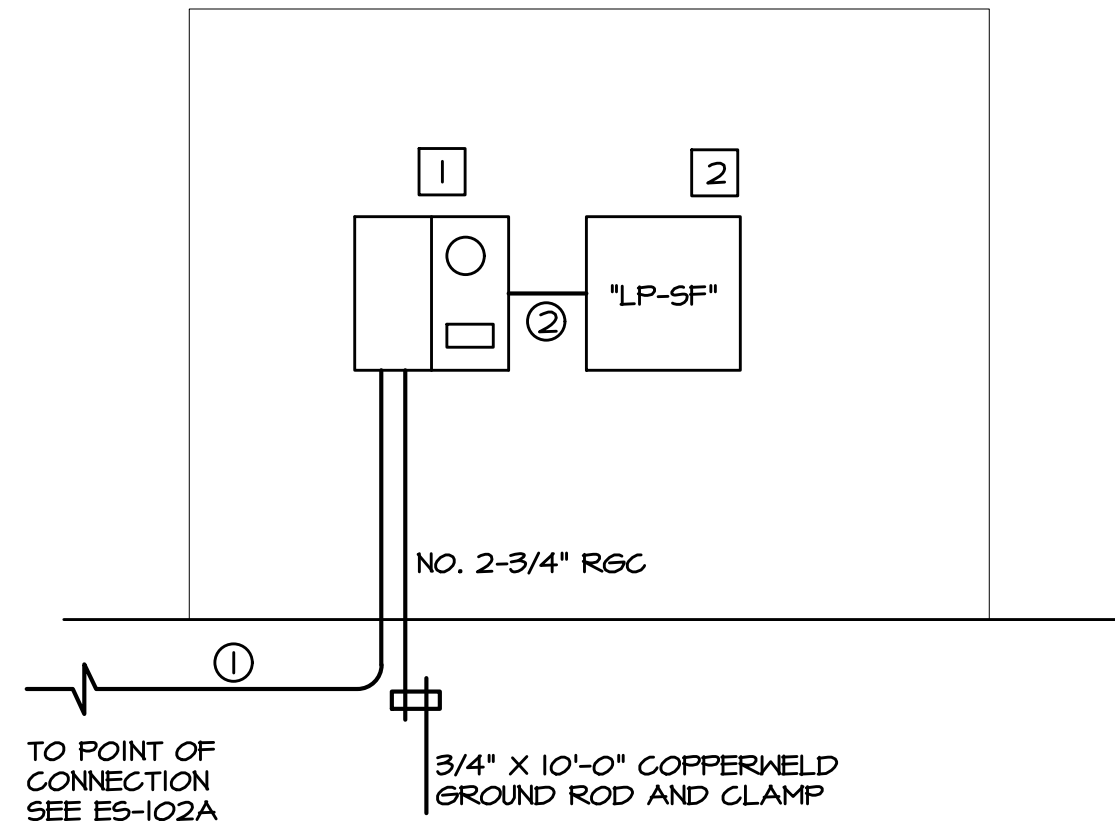
CALLE COSTA 391
OFFICE 201
SAN JUAN, PR 00918
T/ 787 220 8633
E/ luiscamano@gmail.com



ELECTRICAL ONE LINE DIAGRAM - ADMINISTRATION

N.T.S.

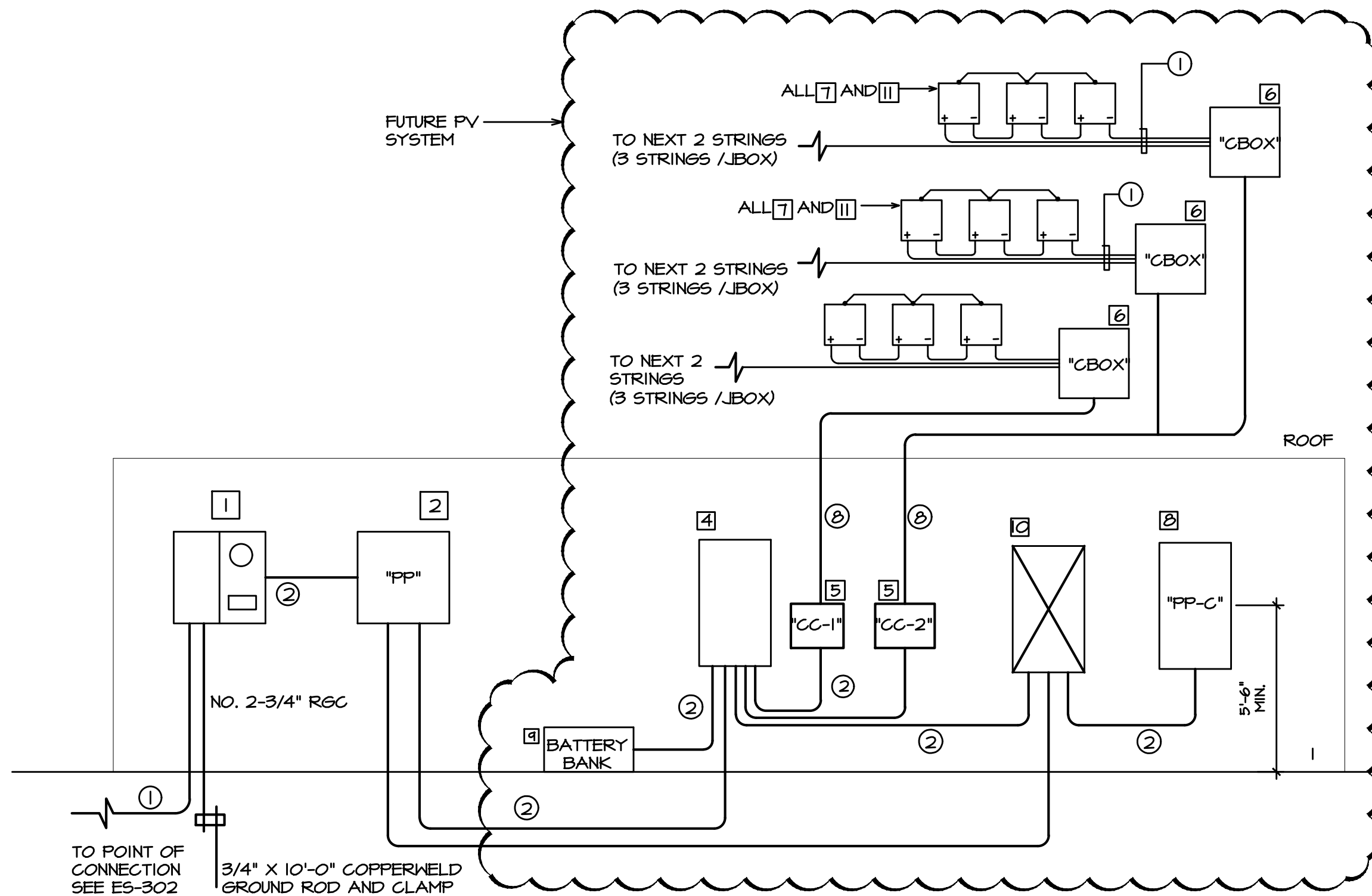
- RAINITITE METERBASE 120/240V, 1PH, 3W, 200 AMPS, 4 CLIPS W/2P-150 AMPS. MAIN BREAKER.
- NEW PANELBOARD, REFER TO SCHEDULE.
- AUTOMATIC TRANSFER SWITCH 200 AMPS, 1 PH, 3W, NEMA 1 ENCLOSURE, REFER TO DESCRIPTION SHE-201.
- GRIDTIED W/BATTERY BACKUP INVERTER EQUAL TO OUTBACK 8048, 8000W, 120/240V OUTPUT VOLTAGE..
- MPPT CHARGE CONTROLLER 80 AMPS, 150V. SIMILAR TO OUTBACK.
- COMBINER BOX FOR STRING GROUPING AND WIRE TRANSITIONS.
- 330W SOLAR MODULE
- NEW CRITICAL LOADS PANELBOARD. REFER TO SCHEDULE.
- BATTERY BANK CONSISTING OF 8-525 AHR., 6V (1 STRINGS), BATTERIES, SIMILAR TO OUTBACK SEALED BATTERIES.
- MANUAL TRANSFER SWITCH FOR INVERTER BY PASS, 100 AMPS., 1 PH, 3W, NEMA 1 ENCLOSURE.
- TIGO TS4 RAPID SHUTDOWN MODULES.
- EMERGENCY GENERATOR. REFER TO DESCRIPTION SHE-201.
- ① 3 NO. 3/0-90°-XLPE, 1 NO. 4-2 1/2" PVC SCH. 40 CONDUIT.
- ② 3 NO. 3/0 THHN- 2 1/2" RGC



ELECTRICAL ONE LINE DIAGRAM - BASKETBALL COURT

N.T.S.

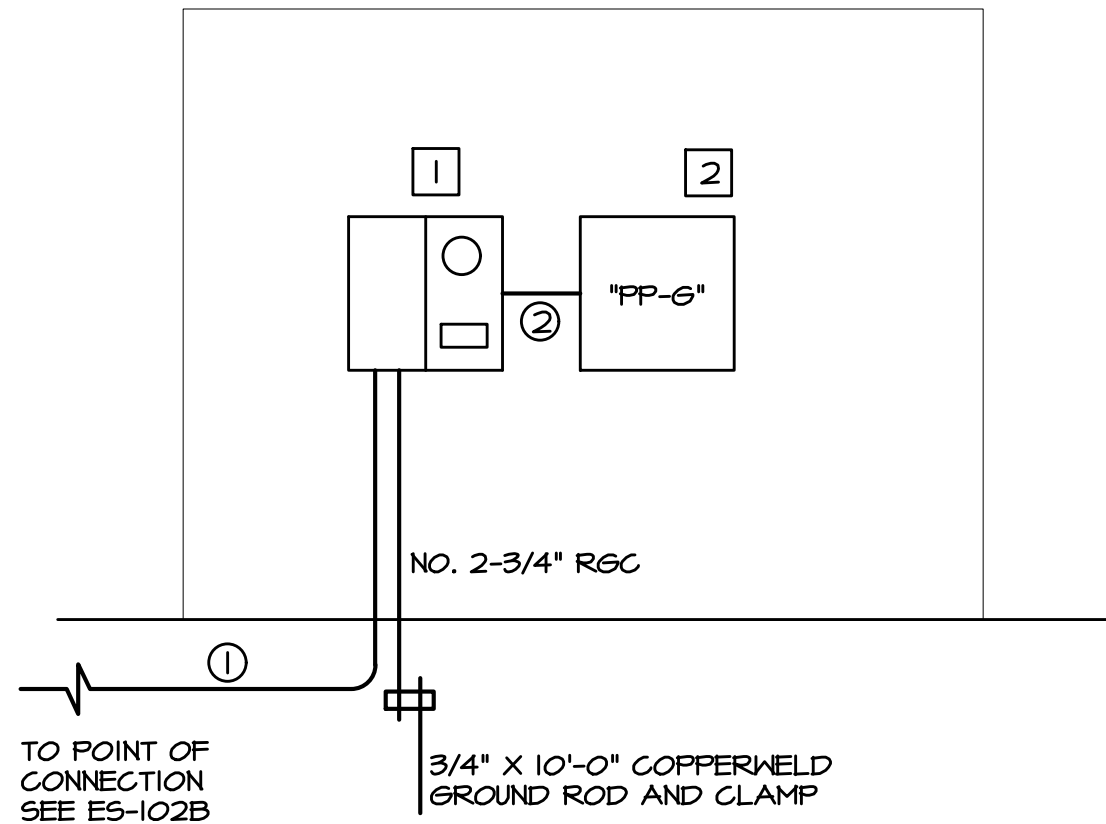
- RAINITITE METERBASE 120/240V, 1PH, 3W, 100 AMPS, 4 CLIPS W/2P-100 AMPS. MAIN BREAKER.
- NEW PANELBOARD, REFER TO SCHEDULE.
- ① 3 NO. 2-90°-XLPE -2" PVC SCH. 40.
- ② 3 NO. 2 THHN- 2" PVC SCH.40



ELECTRICAL ONE LINE DIAGRAM - COMMUNITY CENTER

N.T.S.

- RAINITITE METERBASE 120/240V, 1PH, 3W, 200 AMPS, 4 CLIPS W/2P-150 AMPS. MAIN BREAKER.
- NEW PANELBOARD, REFER TO SCHEDULE.
- NOT USED.
- GRIDTIED W/BATTERY BACKUP INVERTER EQUAL TO OUTBACK 4048, 4000W, 120/240V OUTPUT VOLTAGE..
- MPPT CHARGE CONTROLLER 80 AMPS, 150V. SIMILAR TO OUTBACK.
- COMBINER BOX FOR STRING GROUPING AND WIRE TRANSITIONS.
- 330W SOLAR MODULE
- NEW CRITICAL LOADS PANELBOARD. REFER TO SCHEDULE.
- BATTERY BANK CONSISTING OF 8-525 AHR., 6V (1 STRINGS), BATTERIES, SIMILAR TO OUTBACK SEALED BATTERIES.
- MANUAL TRANSFER SWITCH FOR INVERTER BY PASS, 100 AMPS., 1 PH, 3W, NEMA 1 ENCLOSURE.
- TIGO TS4 RAPID SHUTDOWN MODULES.
- ① 3 NO. 3/0-90°-XLPE, 1 NO. 4-2 1/2" PVC SCH. 40 CONDUIT.
- ② 3 NO. 3/0 THHN- 2 1/2" RGC



ELECTRICAL ONE LINE DIAGRAM - GYM

N.T.S.

- RAINITITE METERBASE 120/240V, 1PH, 3W, 100 AMPS, 4 CLIPS W/2P-100 AMPS. MAIN BREAKER.
- NEW PANELBOARD, REFER TO SCHEDULE.
- ① 3 NO. 2-90°-XLPE -2" PVC SCH. 40.
- ② 3 NO. 2 THHN- 2" PVC SCH.40

06PE-2017-154033-SRI-013754

DESIGNER'S CERTIFICATION

I, I CERTIFY I AM A LICENSED ENGINEER OR ARCHITECT, MEMBER OF THE COLLEGE OF MY PROFESSION AND AUTHORIZED BY THIS PROJECT'S OWNER TO PREPARE THESE CONSTRUCTION PLANS TO PREPARE.

IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED, AND IN COMPLIANCE WITH THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE INDEBTEDS, I HAVE THIS ENDORSEMENT HELD WITHIN THE BULLETIN FOR PROFESSIONAL RESPONSIBILITY FROM CONSTRUCTION DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS ISSUED BY PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

DESIGNER'S SIGNATURE AND SEAL: 18423 P.E. LICENSE NUMBER

ENDORSEMENT

PROJECT NAME: MIRADOR LAS CASAS-APART. 2020

PROJECT NUMBER: IT-1-248

ENDORSED BY: REVISION DATE

1 2 3 4

1. PREPA ENDORSES THE ELECTRIC DESIGN SHOWN IN THESE CONSTRUCTION PLANS BASED ON THE CERTIFICATION PRESENTED BY THE DESIGNER IN COMPLIANCE WITH LAW NO. 7 OF JULY 19, 1985, AS AMENDED.

2. PREPA DOES NOT ASSUME RESPONSIBILITY OVER THE CERTIFIED DESIGN. PREPA'S ENDORSEMENT DOES NOT RELIEVE THE DESIGNER FROM THE PROFESSIONAL RESPONSIBILITY ASSIGNED WITH THE CERTIFICATION OF THESE INDEBTEDS, PLANS, THIS ENDORSEMENT HELD WITHIN THE BULLETIN FOR PROFESSIONAL RESPONSIBILITY FROM CONSTRUCTION DISPOSITIONS FROM NATIONAL ELECTRIC SAFETY CODE, CONSTRUCTION STANDARDS, NORMS AND REGULATIONS ISSUED BY PREPA, PUERTO RICO PLANNING BOARD AND PERMITS AND REGULATION ADMINISTRATION.

3. THIS ENDORSEMENT IS VALID FOR TWO YEARS OF ELECTRICAL WORKS HAVE BEGUN DURING THE YEAR. WITH PRIOR NOTIFICATION TO PREPA, THE ENDORSEMENT WILL STILL BE VALID UNTIL WORK'S COMPLETION. IN CASE THERE IS NO CERTIFIED ELECTRICAL WORK DURING THAT TIME, THIS ENDORSEMENT WILL LOSE ITS VALIDITY.

CLIENT
WEST CORP.
DESIGN
E. FIGUEROA
DRWN BY
J.I.R.C.
CHK'D BY
E. FIGUEROA
DATE
OCT.15.18

REVISIONS	1	5.24.17

CERTIFIED CORRECT

CARLOS M. PÉREZ RIVERA
Ingeniero Licenciado
PO Box 314
Villalba, PR 00766
Tel. 787-462-3438
cpingenieros@outlook.com



NOTE
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PROJECT
MIRADOR LAS CASAS APARTMENTS
FULL REHABILITATION
SANTURCE, PR

TITLE
ELECTRICAL ONE LINE
DIAGRAM

PAGE
ES-205
OF

Certificación: Yo, Ing. Enrique Figueroa Santos-Buch, Ingeniero Licenciado Num. 18923, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPe.