

Approved as Noted

smithb  
Public Works Plans Examiner

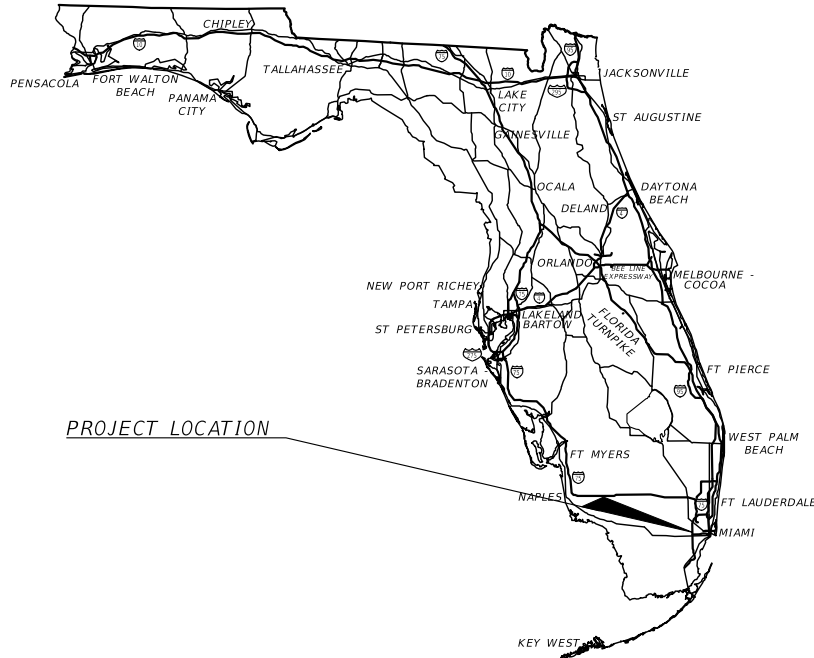
PLANS

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CITY OF DORAL, FLORIDA

## TRAIL LIGHTING IMPROVEMENT PLANS

TURNPIKE TRAIL ALONG NW 117TH AVE FROM  
NW 25TH ST TO NW 58TH ST



PROJECT LOCATION



DERM - Water Control Section

Class III permit 20240082 is in effect for the installation of lighting

along the pedestrian trails within existing Canal Maintenance

Easement along Northline, Dressels Dairy and Snapper Creek

and Snapper Creek Extension Canals.

CHECK Rogelio Mata	RECOMMENDED <i>Joseph M. Calderon Torres</i>	APPROVED <i>Full of Raymond</i>
Date 05/01/2025	File No. 20240082	Sheet 1 of 74

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are available at the following website:

<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2025-26 Standard Specifications for Road and Bridge Construction at the following website:

<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

1.The project must adhere to City of Doral Code of Ordinances, Chapter 38-22, and all other relevant municipal, state, and federal laws.

2.Regulatory Compliance Assurance:

-The registrant agrees at all times to comply with and abide by all applicable provisions of state statutes, city ordinances, codes, and regulations when placing or maintaining a communications facility in public rights-of-way.

3.Permit Acquisition:

-A registrant shall not commence placing or maintaining a communications facility in public rights-of-way until all applicable permits have been issued by the city or other appropriate authority.

-Contractors must coordinate with the Transportation Department and provide advance notice of the start date, considering that several routes may be impacted by the project limits.

4.Installation Methodology:

-A detailed description of the facility installation method (e.g., anticipated construction methods and techniques) must be provided.

5.Construction Timetable:

-A construction schedule outlining each project phase and the areas of the city affected must be submitted.

6.Right-of-Way Use and Protection:

oAll communications facilities shall be placed and maintained to avoid unreasonable interference with public use of rights-of-way and to minimize inconvenience to adjacent property owners.

-The registrant shall install facilities underground wherever possible.

-Trenchless technology (e.g., directional bore method), joint trenching, or co-location in existing conduits may be required based on feasibility and impact assessments.

-The registrant is responsible for any displacement, damage, or destruction of landscaping, irrigation systems, or other property within the public rights-of-way.

-Equipment or material storage must be outside of the pavement or on the swale areas, ensuring it does not hinder bus operations.

7.Restoration Requirements:

-The registrant must restore public rights-of-way to their original or better condition at their own expense, subject to city inspection and approval.

- No sand blasting, water blasting, asphalt patching will be allowed. full lane and/or intersection restoration will be required

-Restoration must meet Miami-Dade County Public Works (MDCPW) standards, and the final restoration must align with what the City of Doral considers appropriate.

-A 12-month warranty period applies to restored areas.

-Failure to complete restoration within 30 calendar days may result in the city completing the work and recovering costs from the registrant as per F.S. § 337.402.

8.Adjacent Property Notification:

-Property owners adjacent to the work area must be notified at least 24 hours prior to the commencement of work.

9.Property Access Maintenance:

-Uninterrupted access to adjacent properties must be maintained at all times during construction.

10.Site Restoration Standards:

-Upon project completion, the site must be restored to its original or improved condition at the sole cost of the permit applicant.

11.Traffic Impact Mitigation:

-No lane closures or traffic interruptions are permitted during AM and PM peak hours (7:00 AM - 9:00 AM & 4:00 PM - 6:00 PM).

-A Maintenance of Traffic (MOT) Plan must be submitted and approved by the City of Doral and MDCPW.

-The MOT must include the use of cones, barricades, caution tape, lighting, signs, and the proper use of flaggers and/or law enforcement officers.

12.Agency Approvals:

-Miami-Dade County Public Works (MDCPW) approval is required for work impacting county roadways.

-Fire Department approval may also be required for access considerations.

13.Traffic Study and Compliance:

-A Trip Generation and/or Traffic Study may be required to assess the impact of the proposed facility. Contact the City Traffic Engineer for guidance.

14.Utility Coordination:

-Coordination with local utility providers (e.g., MDWASD, FPL) is required to prevent conflicts and ensure proper relocation if needed.

15.Erosion and Sediment Control:

-Erosion control measures must be implemented per Florida Greenbook standards to prevent runoff and environmental impact.

16.Inspection and Monitoring:

-Periodic inspections will be conducted by city officials to ensure compliance with permit conditions and quality standards.

17.Public Safety Considerations:

-Contractors must set up and implement a program to protect persons and property in the event of emergencies and take immediate action to correct unsafe practices and unsafe conditions.

-Ensure pedestrian access and ADA compliance for temporary and permanent facilities, including sidewalk detours and safety measures.

-All personnel working on the project shall wear, at a minimum, hard hats and Type II reflective clothing.

-Pedestrian/patron access to bus stops in the project limits shall not be interrupted. Transit prefers no full closure unless discussed with Transit.

- Equipment or material storage must be outside of the pavement

18.Stormwater Management:

-A drainage plan must be submitted detailing how stormwater will be managed to comply with approved paving and drainage plans.

19.Signage and Pavement Markings:

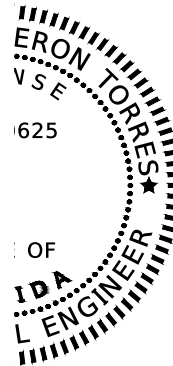
-All traffic control devices must comply with the Manual on Uniform Traffic Control Devices (MUTCD) standards.

20.Construction Noise and Hours:

-Work hours must comply with city noise ordinances to minimize disturbances to nearby properties.

21.Tree Protection and Landscaping:

-Compliance with city landscaping codes is required, and existing trees within the right-of-way must be protected during construction.



THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY

Joseph M Calderon Torres  
2025.04.08 14:53:13-04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES

LIGHTING PLANS  
ENGINEER OF RECORD:

JOSEPH M. CALDERON TORRES II, P.E.  
P.E. NO.: 90625  
H.W. LOCHNER, INC  
8750 N.W. 36TH STREET, SUITE 360  
MIAMI, FLORIDA 33178  
TEL: (305) 503-9873; FAX: (305) 503-9882  
VENDOR NO.: VF-362-338-11

PERMIT SUBMITTAL



SHEET  
NO.

L-1



\\RJ\000021994\700\_CADD\Lighting\Turnpike Trail\KEYSLT01.dwg

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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REVISIONS		 <b>Lochner</b>	JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION						L-2

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GENERAL NOTES

1. CONTRACTOR TO FURNISH AND INSTALL THE ELECTRICAL SYSTEM AS DEPICTED ON ELECTRICAL DRAWINGS.
2. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA-70, 2020, FLORIDA BUILDING CODE, EIGHTH EDITION 2023, NFPA-101 2021, LOCAL CODES, AND OTHER APPLICABLE JURISDICTION CODES.
4. THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS. ALL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN.
5. THE CONTRACTOR TO COORDINATE THE WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL DETERMINE THE SERVICE REQUIRED DATE FOR THE POWER COMPANY CONFERENCE.
7. GROUNDING TO BE INSTALLED TO MEET NEC. ARTICLE 250 REQUIREMENTS. A GROUNDING SYSTEM SHALL NOT EXCEED A 48-HOUR DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS.
8. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FURNISHED, AND UL LISTED.
9. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL ABOVE GRADE CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
10. ELECTRICAL WARNING TAPE SHALL BE PLACED 12 INCHES DEEP ON TOP OF ALL UNDERGROUND TRENCHES.
11. ALL TRENCHES SHALL BE FILLED WITH COMPACTED EXISTING CLEAN BACKFILL (98% AASHTO T-99) AND COMPACTED UTILIZING COMPACTION MACHINE AT DEPTH OF NOT MORE THAN 6 INCH LAYERS.
12. ALL UNDERGROUND ELECTRICAL CONDUITS SHALL BE A MINIMUM OF 24 INCHES DEEP TO TOP OF BRANCH CIRCUIT CONDUIT AND 36 INCHES DEEP TO THE TOP OF FEEDER CONDUIT FROM FPL TRANSFORMER, UNLESS NOTED OTHERWISE.
13. INSTALL PULL BOXES AS NECESSARY TO ACCOMMODATE LONG CABLE PULLS. INSTALL DUCT SEALS AT END OF CONDUITS THAT ENTER PULL BOXES, AND JUNCTION BOXES. LEAVE A MINIMUM OF 6 INCH SPACE BETWEEN WIRES AND PULL BOX COVERS.
14. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. TRENCHING SHALL BE COORDINATED WITH OTHER TRADES SUCH AS LANDSCAPING, AND OTHER UNDERGROUND UTILITIES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATION. ADDITIONALLY, MAINTAIN ENOUGH DISTANCE FROM EXISTING TREES AND LANDSCAPE AREAS SUCH THAT MINIMUM DAMAGE IS DONE TO EXISTING ROOTS.
15. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
16. TYPE WRITTEN PANEL SCHEDULE SHALL BE INSTALLED IN THE PANEL BOARDS. ALL CIRCUITS SHALL BE IDENTIFIED IN PULL BOXES, PANEL BOARDS AND CONTRACTORS. IDENTIFICATION SHALL MATCH PANEL BOARD SCHEDULE.
17. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE COORDINATION OF THE WORK, ANY OMISSIONS OR CONFLICT IN THE WORKING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION AND COMPLETION OF THE DESCRIBED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
18. TWO WEEKS AFTER JOB COMPLETION, THE CONTRACTOR SHALL PERFORM ONE NIGHT CHECK OF LIGHTS WITH ENGINEER. REPAIR OR REPLACE NON-FUNCTIONING LUMINARIES AND NOTIFY THE CITY.
19. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PREVENT OBJECTIONABLE BLOWING OR DRIFTING OF DIRT, SOIL, OR OTHER DEBRIS DURING EXCAVATION AND INSTALLATION OF ELECTRICAL CONDUIT.
20. THE CONTRACTOR SHALL LEAVE THE SITE CLEAN AND ORDERLY AT THE END OF EACH WORKDAY
21. ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE NOTED.
22. CONTRACTOR TO SUBMIT SHOP DRAWINGS & CATALOG NUMBERS FOR ALL NEW MATERIAL FOR APPROVAL BY THE ELECTRICAL CONSULTANT PRIOR TO CONSTRUCTION.
23. EVERY ATTEMPT SHALL BE MADE TO PROTECT ALL EQUIPMENT & MATERIAL FROM ANY DAMAGE DURING TRANSPORTATION, LOADING, UNLOADING, AND INSTALLATION AT THE SITE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOST, STOLEN OR DAMAGED EQUIPMENT OR MATERIAL.
25. ALL EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL BE NEMA TYPE 4X UNLESS NOTED OTHERWISE.
26. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED TO MATCH THE EXISTING (EX. ZOYSIA, ST. AUGUSTINE).
27. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

28. THE CONTRACTOR SHALL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
29. ALL EXCESS MATERIAL IS TO BE REMOVED AND DISPOSED BY THE CONTRACTOR WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION PROJECT LIMITS. CONTRACTOR SHALL INCUR ALL COSTS FOR DISPOSAL.
30. DISPOSAL OF ALL MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
31. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
32. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH BIDS WILL BE BASED.
33. OPERATING INSTRUCTIONS: UPON COMPLETION OF ALL WORK AND OF ALL TESTS, FURNISH THE NECESSARY SKILLED LABOR AND HELPERS, FOR OPERATING ALL ELECTRICAL SYSTEMS AND EQUIPMENT IN ORDER TO INSTRUCT AND TRAIN THE OWNERS' REPRESENTATIVES IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.
34. OPERATION AND MAINTENANCE MANUALS: WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE TO THE OWNER, OPERATION AND MAINTENANCE MANUALS CONTAINING SUBMITTAL DATA STATING EQUIPMENT RATING, SELECTED OPTIONS AND REQUIRED MAINTENANCE ACTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE THE CONTRACTOR SHALL ALSO PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
35. RECORD DRAWINGS: THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT DRAWINGS, WHICH SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THEY SHALL INCLUDE A ACTUAL CONDUIT RUNS, PULL BOX LOCATIONS, AND ANY AND ALL EQUIPMENT THAT IS PROVIDED AND INSTALLED AS PART OF THIS PROJECT INDICATING AN ACCURATE DEPICTION OF ALL INSTALLED ELECTRICAL EQUIPMENT.
36. BRANCH CIRCUIT VOLTAGE DROP: CONTRACTOR TO VERIFY THAT THE VOLTAGE DROP FOR ALL THE BRANCH CIRCUITS DOES NOT EXCEED 3% OF THE HOMERUN CIRCUITS ORIGINAL VOLTAGE AND TO INCREASE THE WIRE SIZE AS NECESSARY TO ADJUST FOR THE VOLTAGE DROP.
37. UNGROUNDED CONDUCTORS SHALL USE BLACK INSULATION, NEUTRAL CONDUCTORS SHALL USE WHITE INSULATION, & GROUNDING CONDUCTORS SHALL USE GREEN INSULATION.
38. ALL EXPOSED OR SURFACE MOUNTED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT.
39. ALL CONDUIT THAT WILL REMAIN EMPTY AS SPARES SHALL BE MANDREL TESTED, CLEANED INSIDE AND BOTH ENDS CAPPED. LEAVE CORROSION RESISTANT, PULL/DRAW WIRE AND PLACE DUCT MARKERS, OR PULLBOXES TO MARK THE LOCATION OF THE ENDS OF THE CONDUIT.
40. PULL BOXES SHALL BE LOCATED AT ENDS OF CONDUIT CROSSING ROADWAYS, AND AS NECESSARY FOR THE COMPLETION OF THE PROJECT. INSTALL WITH A 12" BED OF PEAROCK OR CRUSHED STONE FOR DRAINAGE.
41. THESE PLANS REPRESENT MINIMUM ACCEPTABLE CRITERIA. THE INSPECTION PER THESE DRAWINGS REPRESENT THE MINIMUM BASE ACCEPTANCE.
42. TRAIL TO REMAIN ACCESSIBLE TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. PROVIDE A MINIMUM OF 4FT OF UNOBSTRUCTED PATH AROUND WORK ZONES. IF 4FT OF UNOBSTRUCTED PATH CANNOT BE MAINTAINED, PROVIDE TEMPORARY PATH AROUND WORKZONE OR PROVIDE PEDESTRIAN DETOURS AS REQUIRED.
43. THE FILL MATERIALS WITHIN THE CANAL RIGHT-OF-WAY SHOULD CONSIST OF THE LIMEROCK BASE FILL MATERIAL THAT IS FREE OF CONTAMINANTS AND MEETS THE CLEAN FILL CRITERIA DEFINITION PURSUANT TO CHAPTER 24-5 OF THE CODE OF MIAMI-DADE COUNTY. THE LIMEROCK BASE FILL MATERIAL ALSO SHOULD MEET THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS, DATED FY 2025-26 OR THE CURRENT AVAILABLE STANDARD SPECIFICATIONS AT THE TIME OF CONSTRUCTION, SECTIONS 911-1 THROUGH 911-2.3, AND 911-3.1 THROUGH 911-3.4.

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION						L-6



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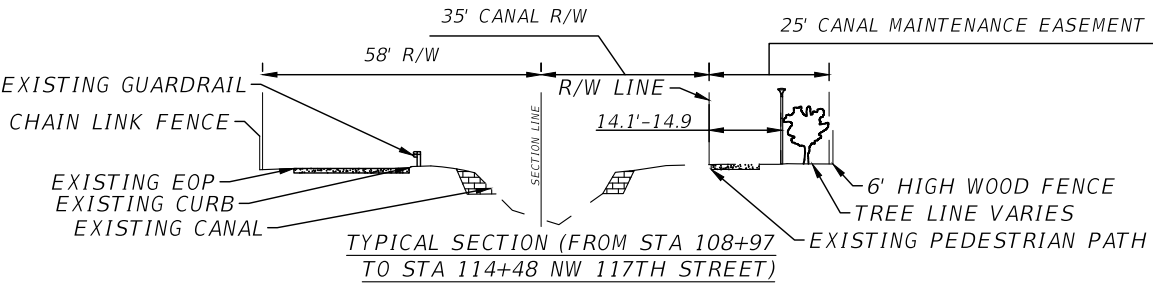
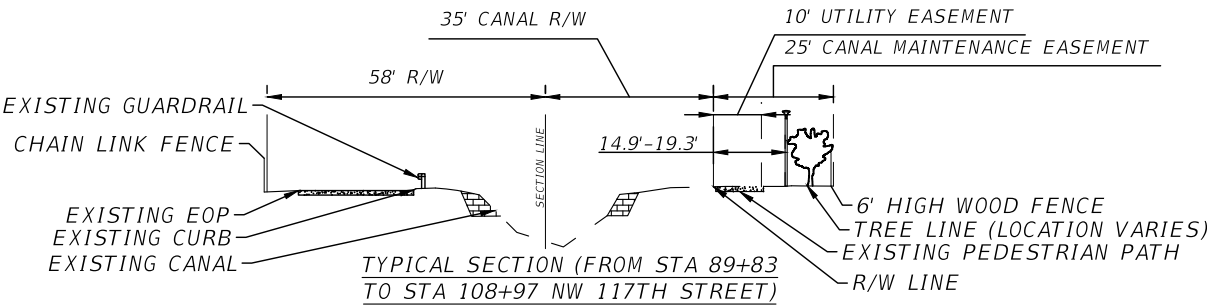
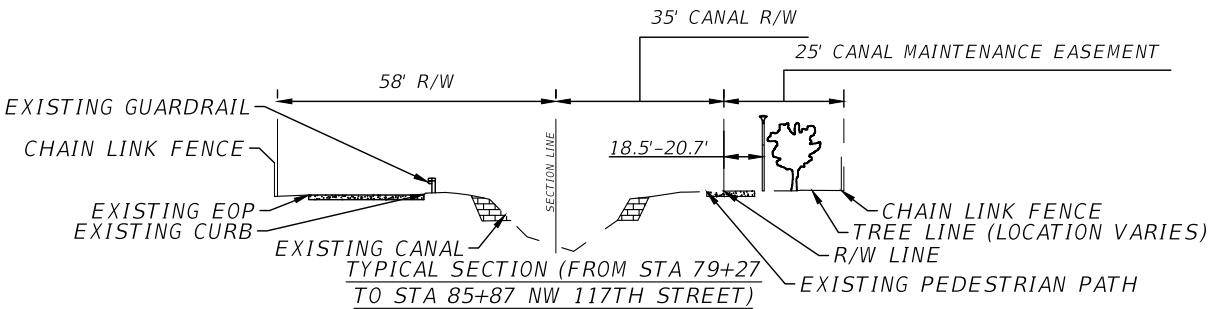
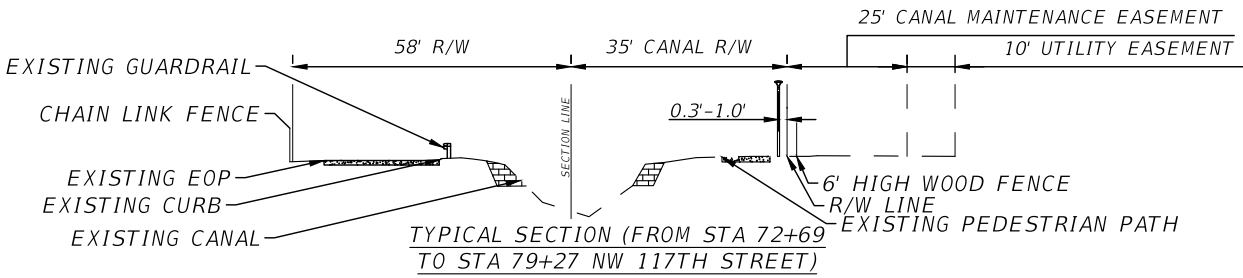
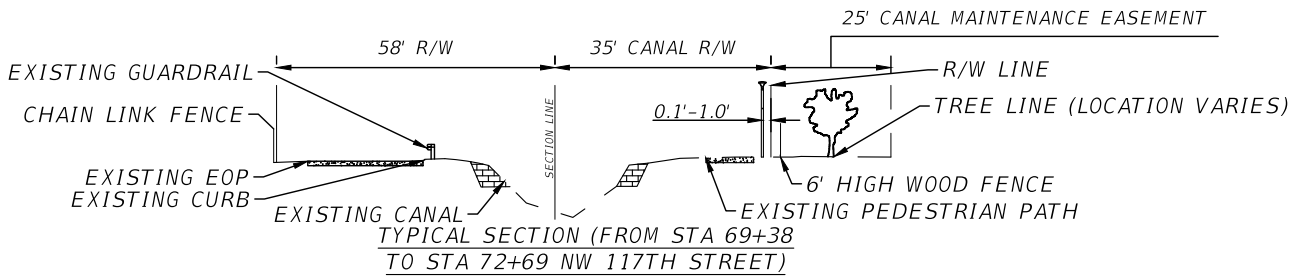
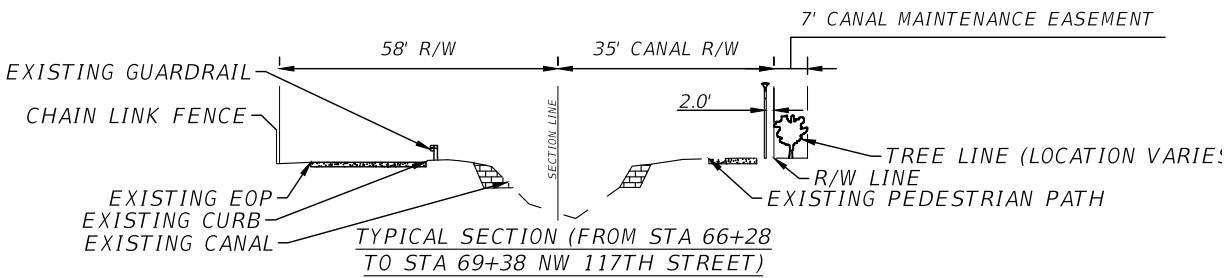
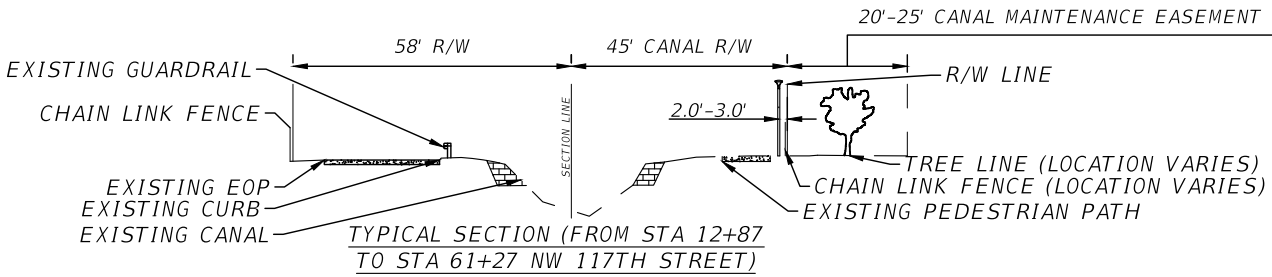
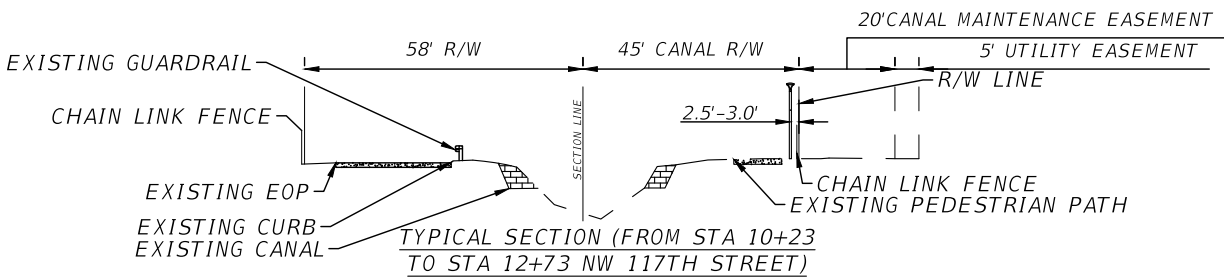
SPECIAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UNDERGROUND AND ABOVE GROUND IMPROVEMENTS SUCH AS CONDUITS, GAS MAINS, SANITARY SEWER LINES, TV CABLE, TELEPHONE, LATERALS, WATER MAINS, POLES, PIPES, CABLES AND OTHER STRUCTURES FROM INJURY, AND IN CASE OF DAMAGE THEY SHALL BE RESTORED WITHOUT COMPENSATION.
3. HAND-DIG WHERE THERE IS ANY CONFLICT WITH THE EXISTING UNDERGROUND UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES FOR LOCATION OF THEIR EXISTING FACILITIES. IT'S THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE UTILITIES FOR THE EXACT DEPTH. CONTACT "SUNSHINE"AT 811 PRIOR TO DIGGING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE CONTRACTOR'S OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THEIR EXISTING FACILITIES CONFLICT WITH THE CONSTRUCTION.
6. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO "SUNSHINE".
7. CONTRACTOR TO USE CAUTION WHEN WORKING UNDER AND IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITIES. PROVIDE A LETTER FROM FPL APPROVING METHOD OF LIGHT POLE INSTALLATION. CONTACT JESSICA SALAZAR AT JESSICA.SALAZAR@FPL.COM PRIOR TO CONSTRUCTION.
8. LIGHT POLE USED AS BASIS OF DESIGN IS HAPCO'S ROUND TAPERED ALUMINUM (RTA) POLE, OR APPROVED EQUAL. POLES SHALL BE DIRECT BURIED AS PER MANUFACTURER'S RECOMMENDATION AND DESIGNED FOR A WIND SPEED ACCORDING TO THE 2020 FLORIDA BUILDING CODE.
9. CONTRACTOR IS TO REMOVE ALL SHRUBS/BUSHES WITHIN A 4 FT RADIUS OF ALL LIGHT POLE LOCATIONS TO ALLOW ADEQUATE SPACE FOR ACCESS AND MAINTENANCE. TRIM TREE BRANCHES WITHIN 2 FT RADIUS OF ALL LIGHT POLE LOCATIONS. VERIFY OWNERSHIP AND COORDINATE REMOVAL AND TRIMMING OF BUSHES, SHRUBS, AND TREES WITH OWNER. REPLACE ANY REMOVED TREES, BUSHES, AND SHRUBS IN KIND.

GUARANTEE

THE CONTRACTOR SHALL SUBMIT A WRITTEN GUARANTEE COVERING ALL MATERIALS, WORKMANSHIP, AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR COMMENCING FROM THE DAY OF FINAL ACCEPTANCE. ANY REPAIRS DUE TO DEFECTIVE WORKMANSHIP OR MATERIALS DURING THE ONE-YEAR PERIOD SHALL BE MADE BY THE CONTRACTOR WITHOUT CHARGE TO THE CITY.

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION						L-7



REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



TYPICAL SECTIONS

SHEET  
NO.  
L-8



SYMBOLS

LEGEND  
DESCRIPTION



POST TOP LIGHT POLE WITH 54W LED LUMINAIRE DESIGNED FOR 5,983 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT\_LED\_P3\_40K\_PATH\_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.



POST TOP LIGHT POLE WITH 86W LED LUMINAIRE DESIGNED FOR 9,209 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT\_LED\_P4\_40K\_PATH\_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.



EXISTING POLE LIGHT TO REMAIN



EXISTING SOLAR POWERED LIGHT POLE TO BE REMOVED AND DISPOSED.



EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED AND DISPOSED.



PROPOSED LOAD CENTER



EXISTING LOAD CENTER



2" SCHEDULE 40 PVC CONDUIT, DIRECT BURIED IN OPEN TRENCH, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.



2" HDPE CONDUIT INSTALLED BY DIRECTIONAL BORE, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.





PULL BOX

- NOTES:
1. COORDINATE LIGHT POLE AND LUMINAIRE COLORS WITH THE CITY OF DORAL PRIOR TO PROCUREMENT.

SIDEWALKS AND SHARED USE PATH  
LIGHTING CRITERIA  
(TURNPIKE TRAIL)

AVERAGE INITIAL INTENSITY	2.5 FOOT CANDLES
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
UNIFORMITY RATIO MAX./MIN.	10:1 OR LESS
WIND SPEED	160 MPH

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LEGEND	SHEET NO.
DATE	DESCRIPTION						L-9




Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City Item
P-1	858961.098	532446.315	NW 25TH ST	14+93.57	38.47' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-2	858901.098	532446.198	NW 25TH ST	14+33.57	38.74' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-3	858841.098	532446.081	NW 25TH ST	13+73.57	39.02' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-4	858781.098	532445.964	NW 25TH ST	13+13.57	39.29' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-5	858721.099	532445.847	NW 25TH ST	12+53.58	39.56' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-6	858661.099	532445.731	NW 25TH ST	11+93.58	39.84' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-7	858601.099	532445.614	NW 25TH ST	11+33.58	40.11' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-8	858541.099	532445.497	NW 25TH ST	10+73.58	40.39' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-9	858509.8	532471.339	NW 117TH AVE	10+65.39	44.03' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-10	858505.945	532537.011	NW 117TH AVE	11+31.15	42.18' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-11	858503.905	532602.98	NW 117TH AVE	11+97.15	42.16' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-12	858501.831	532668.948	NW 117TH AVE	12+63.15	42.10' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-13	858499.909	532734.919	NW 117TH AVE	13+29.15	42.19' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-14	858498.647	532796.648	NW 117TH AVE	13+90.89	42.82' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-15	858496.277	532872.317	NW 117TH AVE	14+66.60	42.76' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-16	858494.163	532927.859	NW 117TH AVE	15+22.18	42.34' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-17	858492.552	532985.595	NW 117TH AVE	15+79.94	42.49' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-18	858490.818	533038.31	NW 117TH AVE	16+32.68	42.37' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-19	858488.666	533106.276	NW 117TH AVE	17+00.68	42.29' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-20	858486.501	533174.241	NW 117TH AVE	17+68.68	42.20' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-21	858484.315	533242.206	NW 117TH AVE	18+36.68	42.09' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-22	858482.133	533310.171	NW 117TH AVE	19+04.68	41.99' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-23	858480.142	533378.142	NW 117TH AVE	19+72.68	42.07' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-24	858478.149	533446.113	NW 117TH AVE	20+40.68	42.16' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-25	858476.14	533514.083	NW 117TH AVE	21+08.68	42.22' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-26	858474.131	533582.053	NW 117TH AVE	21+76.68	42.29' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-27	858472.12	533650.024	NW 117TH AVE	22+44.68	42.35' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-28	858469.69	533717.98	NW 117TH AVE	23+12.68	42.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-29	858467.522	533785.945	NW 117TH AVE	23+80.68	41.91' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-30	858465.355	533853.91	NW 117TH AVE	24+48.68	41.82' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-31	858463.246	533921.878	NW 117TH AVE	25+16.68	41.78' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-32	858461.215	533989.847	NW 117TH AVE	25+84.68	41.83' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-33	858459.183	534057.817	NW 117TH AVE	26+52.68	41.87' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-34	858457.151	534125.787	NW 117TH AVE	27+20.68	41.92' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-35	858455.12	534193.757	NW 117TH AVE	27+88.68	41.96' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-36	858453.088	534261.726	NW 117TH AVE	28+56.68	42.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-37	858450.879	534329.69	NW 117TH AVE	29+24.68	41.87' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-38	858448.666	534397.654	NW 117TH AVE	29+92.68	41.74' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-39	858446.689	534465.625	NW 117TH AVE	30+60.68	41.84' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-40	858444.905	534533.601	NW 117TH AVE	31+28.68	42.13' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-41	858442.889	534601.571	NW 117TH AVE	31+96.68	42.19' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-42	858440.746	534669.537	NW 117TH AVE	32+64.68	42.12' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-43	858438.633	534737.504	NW 117TH AVE	33+32.68	42.08' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-44	858436.648	534805.475	NW 117TH AVE	34+00.68	42.18' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-45	858434.625	534873.445	NW 117TH AVE	34+68.68	42.23' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-46	858432.537	534941.413	NW 117TH AVE	35+36.68	42.22' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-47	858430.304	535009.377	NW 117TH AVE	36+04.68	42.06' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-48	858428.027	535077.339	NW 117TH AVE	36+72.68	41.86' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-49	858425.933	535145.306	NW 117TH AVE	37+40.68	41.84' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-50	858424.325	535206.583	NW 117TH AVE	38+01.97	42.10' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



POLE DATA

SHEET NO.

L-10


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	Pay Item
P-51	858422.836	535267.621	NW 117TH AVE	38+63.03	42.48' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	1	Doral	715-516-110
P-52	858420.895	535348.231	NW 117TH AVE	39+43.66	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-53	858419.185	535404.205	NW 117TH AVE	39+99.66	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-54	858417.402	535464.407	NW 117TH AVE	40+59.89	43.06' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-55	858415.817	535516.155	NW 117TH AVE	41+11.66	43.05' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-56	858414.138	535572.13	NW 117TH AVE	41+67.66	43.08' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-57	858412.417	535628.103	NW 117TH AVE	42+23.66	43.07' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-58	858410.676	535684.076	NW 117TH AVE	42+79.66	43.04' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-59	858408.935	535740.049	NW 117TH AVE	43+35.66	43.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-60	858407.071	535790.445	NW 117TH AVE	43+86.09	42.68' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-61	858405.508	535850.969	NW 117TH AVE	44+46.63	42.97' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-62	858403.798	535907.971	NW 117TH AVE	45+03.66	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-63	858401.858	535966.926	NW 117TH AVE	45+62.65	42.86' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-64	858399.919	536027.027	NW 117TH AVE	46+22.78	42.76' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-65	858398.669	536080.846	NW 117TH AVE	46+76.61	43.15' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-66	858396.781	536141.365	NW 117TH AVE	47+37.16	43.11' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-67	858395.078	536197.339	NW 117TH AVE	47+93.16	43.12' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-68	858393.492	536252.609	NW 117TH AVE	48+48.45	43.22' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-69	858391.946	536295.748	NW 117TH AVE	48+91.62	42.99' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-70	858390.243	536351.723	NW 117TH AVE	49+47.62	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-71	858388.54	536407.697	NW 117TH AVE	50+03.62	43.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-72	858386.28	536473.445	NW 117TH AVE	50+69.41	42.75' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-73	858384.561	536529.418	NW 117TH AVE	51+25.41	42.75' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-74	858382.842	536585.392	NW 117TH AVE	51+81.41	42.74' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-75	858381.582	536635.632	NW 117TH AVE	52+31.66	43.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-76	858380.149	536687.592	NW 117TH AVE	52+83.64	43.16' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-77	858377.537	536747.556	NW 117TH AVE	53+43.66	42.38' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-78	858374.811	536809.237	NW 117TH AVE	54+05.39	41.54' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-79	858373.268	536866.648	NW 117TH AVE	54+62.82	41.75' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-80	858372.25	536915.465	NW 117TH AVE	55+11.65	42.23' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-81	858370.946	536971.45	NW 117TH AVE	55+67.65	42.63' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-82	858369.604	537027.433	NW 117TH AVE	56+23.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-83	858367.895	537083.407	NW 117TH AVE	56+79.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-84	858366.185	537139.381	NW 117TH AVE	57+35.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-85	858364.475	537195.355	NW 117TH AVE	57+91.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-86	858362.765	537251.329	NW 117TH AVE	58+47.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-87	858361.056	537307.303	NW 117TH AVE	59+03.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-88	858359.346	537363.277	NW 117TH AVE	59+59.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-89	858357.636	537419.251	NW 117TH AVE	60+15.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-90	858355.927	537475.225	NW 117TH AVE	60+71.65	43.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-91	858354.293	537531.201	NW 117TH AVE	61+27.65	43.08' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	2	Doral	715-516-110
P-92	858347.872	537963.157	NW 117TH AVE	65+59.60	49.83' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	2	Doral	715-516-110
P-93	858337.631	538032.042	NW 117TH AVE	66+28.76	41.70' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-94	858328.921	538095.523	NW 117TH AVE	66+92.48	34.93' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-95	858325.921	538160.553	NW 117TH AVE	67+57.57	33.91' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-96	858323.99	538225.524	NW 117TH AVE	68+22.57	33.96' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-97	858322.097	538290.497	NW 117TH AVE	68+87.57	34.05' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-98	858320.125	538355.467	NW 117TH AVE	69+52.57	34.06' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-99	858318.098	538420.436	NW 117TH AVE	70+17.57	34.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-100	858316.072	538485.404	NW 117TH AVE	70+82.57	33.97' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



POLE DATA

SHEET NO.  
L-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City Item
P-101	858314.066	538550.373	NW 117TH AVE	71+47.57	33.94' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-102	858312.131	538615.345	NW 117TH AVE	72+12.57	33.99' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-103	858310.192	538680.316	NW 117TH AVE	72+77.57	34.03' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-104	858308.197	538745.285	NW 117TH AVE	73+42.57	34.02' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-105	858306.203	538810.255	NW 117TH AVE	74+07.57	34.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-106	858304.21	538875.225	NW 117TH AVE	74+72.57	34.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-107	858302.222	538940.194	NW 117TH AVE	75+37.57	33.99' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-108	858300.254	539005.164	NW 117TH AVE	76+02.57	34.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-109	858298.251	539069.878	NW 117TH AVE	76+67.32	33.97' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-110	858296.37	539134.955	NW 117TH AVE	77+32.42	34.08' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-111	858294.434	539199.927	NW 117TH AVE	77+97.42	34.12' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-112	858292.498	539264.898	NW 117TH AVE	78+62.42	34.17' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-113	858291.032	539330.053	NW 117TH AVE	79+27.59	34.69' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-114	858308.455	539383.115	NW 117TH AVE	79+80.10	53.72' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	1	Doral	715-516-110
P-115	858306.993	539433.094	NW 117TH AVE	80+30.10	53.78' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	1	Doral	715-516-110
P-116	858305.53	539483.072	NW 117TH AVE	80+80.10	53.85' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-117	858304.068	539533.051	NW 117TH AVE	81+30.10	53.91' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-118	858302.581	539586.468	NW 117TH AVE	81+83.54	54.05' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-119	858302.225	539643.505	NW 117TH AVE	82+40.56	55.43' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-120	858300.462	539710.096	NW 117TH AVE	83+07.17	55.70' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-121	858296.679	539775.073	NW 117TH AVE	83+72.23	53.90' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-122	858294.247	539839.344	NW 117TH AVE	84+36.55	53.43' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	1	Doral	715-516-110
P-123	858292.2	539903.312	NW 117TH AVE	85+00.55	53.33' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	1	Doral	715-516-110
P-124	858290.408	539967.286	NW 117TH AVE	85+64.55	53.49' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	B	1	Doral	715-516-110
P-125	858290.981'	540031.269'	NW 117TH AVE	86+28.48	56.02' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-126	858303.33	540070.803	NW 117TH AVE	86+67.62	69.56' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	B	1	Doral	715-516-110
P-127	858276.788	540386.249	NW 117TH AVE	89+83.73	52.65' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-128	858274.928	540439.95	NW 117TH AVE	90+37.46	52.43' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-129	858273.496	540496.254	NW 117TH AVE	90+93.78	52.72' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-130	858271.011	540562.185	NW 117TH AVE	91+59.76	52.25' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-131	858269.76	540615.007	NW 117TH AVE	92+12.59	52.61' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-132	858268.041	540676.402	NW 117TH AVE	92+74.01	52.77' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-133	858267.068	540736.961	NW 117TH AVE	93+34.57	53.65' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-134	858265.225	540796.049	NW 117TH AVE	93+93.69	53.61' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-135	858263.943	540860.087	NW 117TH AVE	94+57.74	54.28' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-136	858260.136	540921.697	NW 117TH AVE	95+19.44	52.36' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-137	858258.739	540986.566	NW 117TH AVE	95+84.32	52.94' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-138	858255.797	541051.087	NW 117TH AVE	96+48.90	51.97' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-139	858254.676	541110.958	NW 117TH AVE	97+08.78	52.68' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	3	Doral	715-516-110
P-140	858251.726	541168.666	NW 117TH AVE	97+66.55	51.49' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-141	858249.508	541226.608	NW 117TH AVE	98+31.50	51.26' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-142	858246.99	541284.568	NW 117TH AVE	98+82.54	50.30' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-143	858244.772'	541345.629'	NW 117TH AVE	99+43.64	49.95' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-144	858243.031	541400.498	NW 117TH AVE	99+98.54	49.88' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-145	858241.825	541458.486	NW 117TH AVE	100+56.53	50.45' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-146	858240.619	541516.473	NW 117TH AVE	101+14.53	51.01' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-147	858239.873'	541564.368'	NW 117TH AVE	101+62.43	51.73' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-148	858238.666'	541622.356'	NW 117TH AVE	102+20.42	52.29' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-149	858237.093'	541680.334'	NW 117TH AVE	102+78.42	52.49' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-150	858235.290'	541743.359'	NW 117TH AVE	103+41.47	52.61' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



POLE DATA

SHEET NO.  
L-12

Hernandez, Kevin

4/8/2025 11:17:55 AM

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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City, State
P-151	858233.486	541806.384	NW 117TH AVE	104+04.52	52.73' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-152	858231.627	541859.351	NW 117TH AVE	104+57.52	52.49' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-153	858229.414	541922.312	NW 117TH AVE	105+20.52	52.20' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-154	858227.353	541980.275	NW 117TH AVE	105+78.52	51.91' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-155	858225.277	542038.238	NW 117TH AVE	106+36.52	51.61' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-156	858223.2	542096.201	NW 117TH AVE	106+94.52	51.30' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-157	858221.123	542154.163	NW 117TH AVE	107+52.52	51.00' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-158	858219.045'	542208.163'	NW 117TH AVE	108+6.56	50.57' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-159	858216.87	542270.085	NW 117TH AVE	108+68.52	50.28' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-160	858214.653	542328.043	NW 117TH AVE	109+26.51	49.84' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-161	858212.436	542386.001	NW 117TH AVE	109+84.51	49.39' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-162	858210.574	542443.971	NW 117TH AVE	110+42.51	49.30' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-163	858208.712	542501.941	NW 117TH AVE	111+00.51	49.21' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-164	858206.85	542559.911	NW 117TH AVE	111+58.51	49.12' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-165	858205.065	542617.884	NW 117TH AVE	112+16.51	49.10' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-166	858203.37	542675.859	NW 117TH AVE	112+74.51	49.18' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-167	858201.675	542733.835	NW 117TH AVE	113+32.51	49.26' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-168	858199.955	542791.809	NW 117TH AVE	113+90.51	49.31' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-169	858197.96	542849.775	NW 117TH AVE	114+48.51	49.08' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	1	Doral	715-516-110
P-170	858211.883	542883.491	NW 117TH AVE	114+81.79	64.03' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	1	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

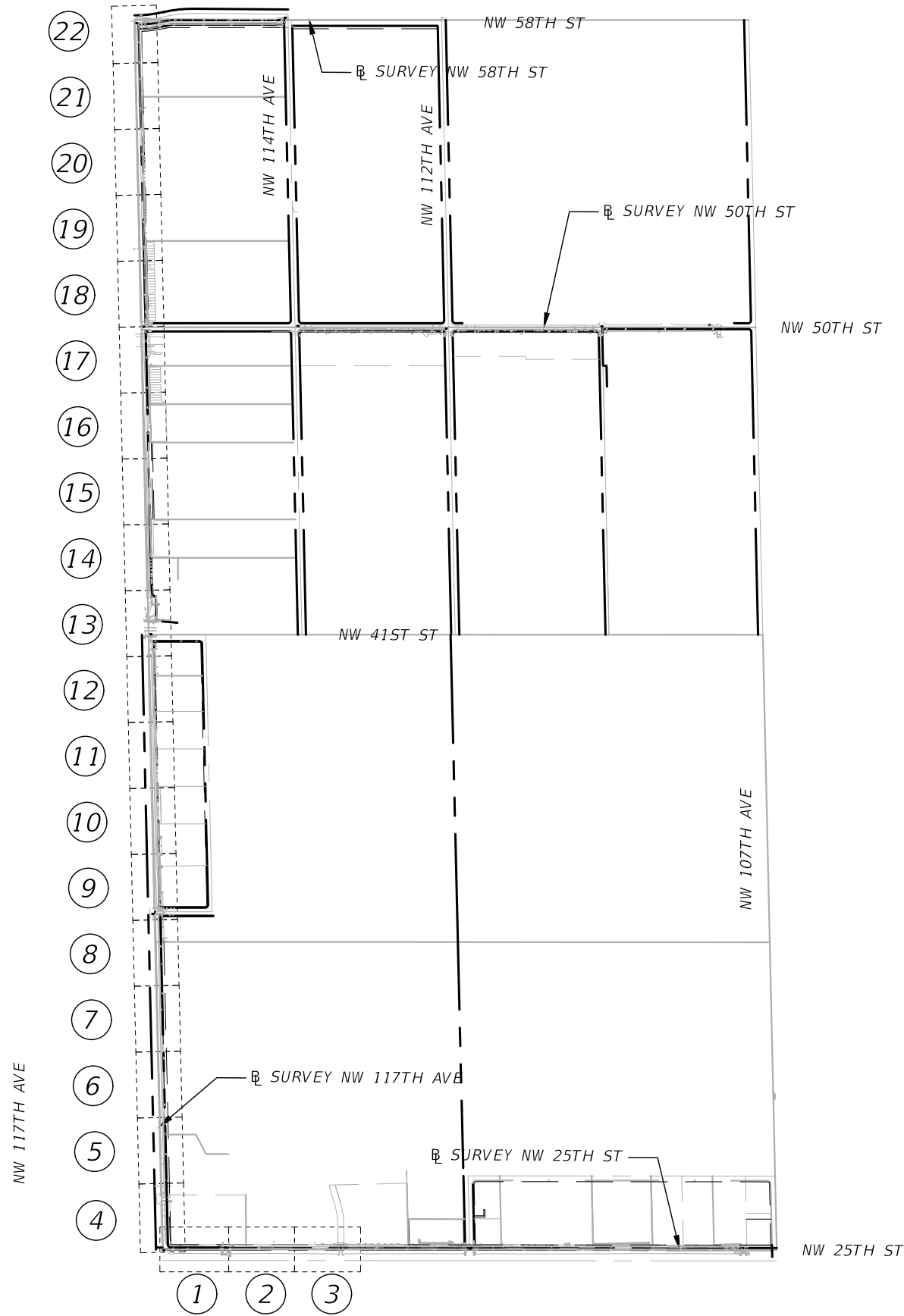




POLE DATA

SHEET NO.

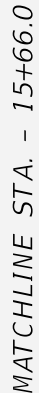
L-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION						L-14





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P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (2)

SHEET NO.
L-16



MATCHLINE STA. - 21+32.00



LOAD CENTER A-  
STA. 22+22, -34.19' LT.  
@ NW 25th St

635-2-11	10 LF
635-2-11	2 EA
639-1-112	1 EA
641-2-15	1 EA
715-7-11	1 EA

630-2-11	1 RUN @ 87 LF
715-1-13	2 #2 AWG & 1 #2 GND @ 261 LF

CANAL R/W

EASEMENT LINE

@ SURVEY NW 25TH ST

OUR LADY OF MERCY CATHOLIC CEMETERY  
PB 93, PG 34

OUR LADY OF MERCY CATHOLIC CEMETERY

22

23

24

25

26

FPL OVERHEAD SERVICE DROP

25' CANAL MAINTENANCE EASEMENT

NORTHLINE CANAL

NW 25 ST

FPL TRANSMISSION POLE

FPL POINT OF SERVICE, & POLE MOUNTED UTILITY TRANSFORMER

REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
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MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



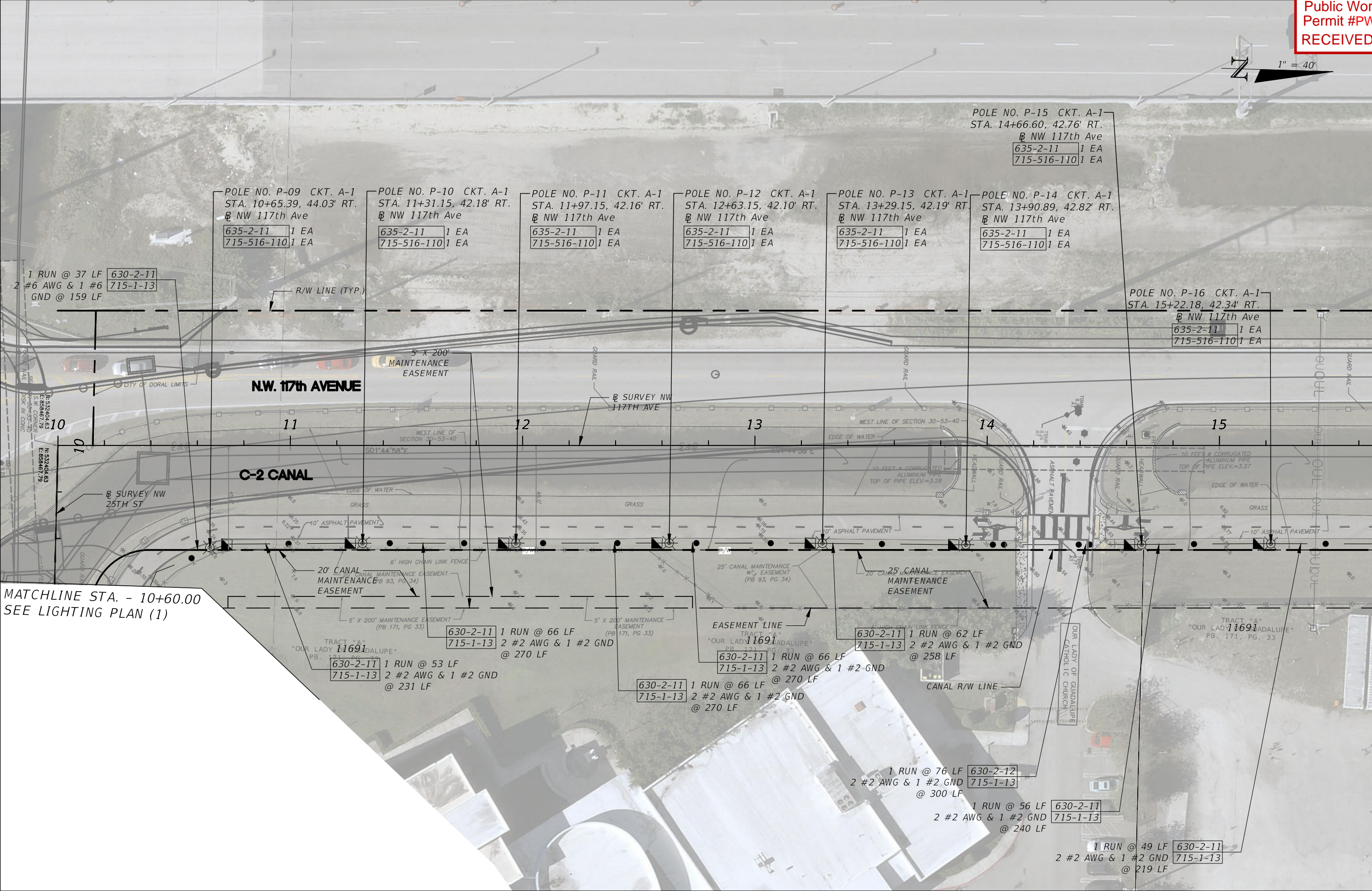
LIGHTING PLAN (3)



SHEET NO.

L-17

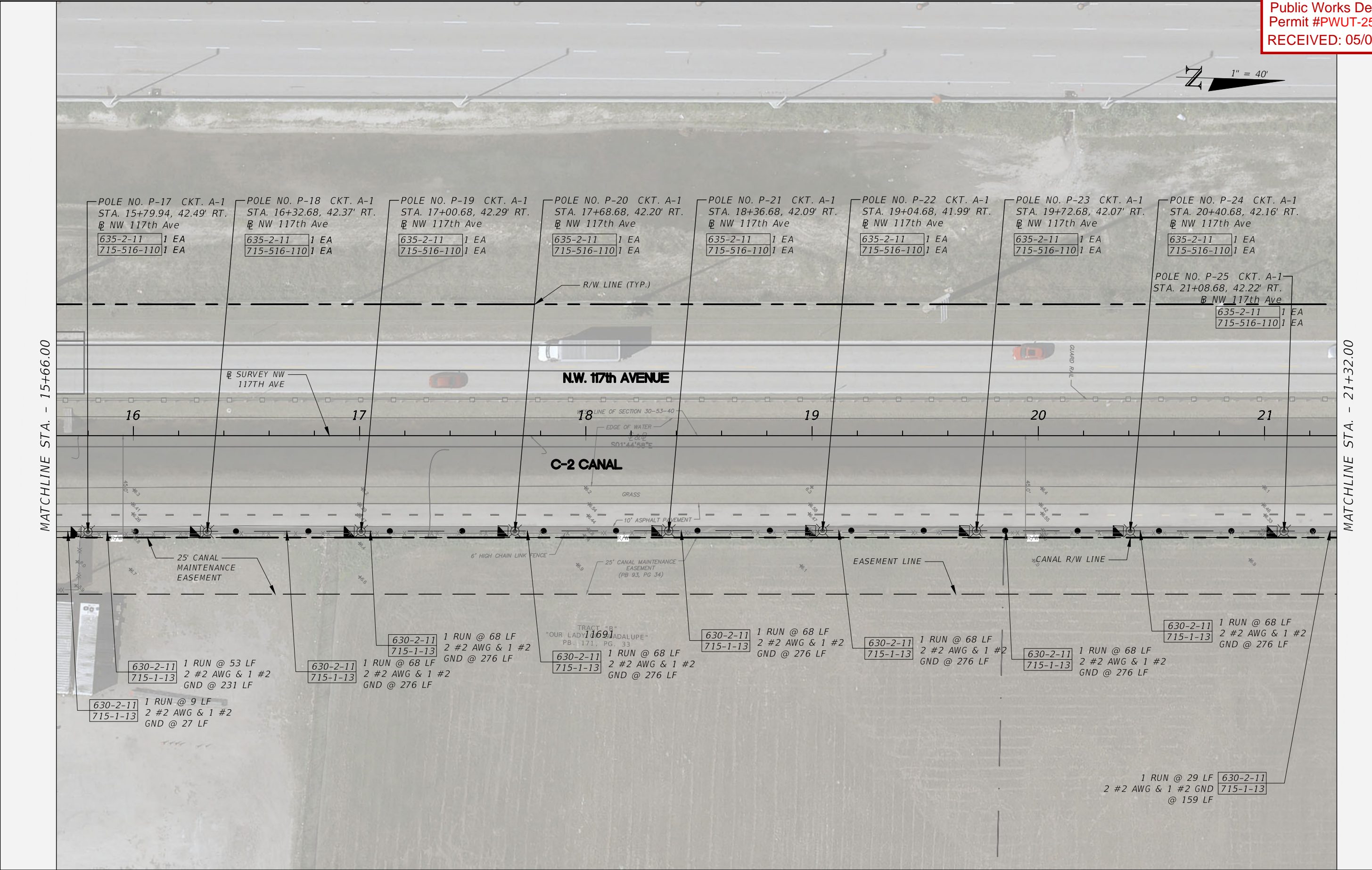
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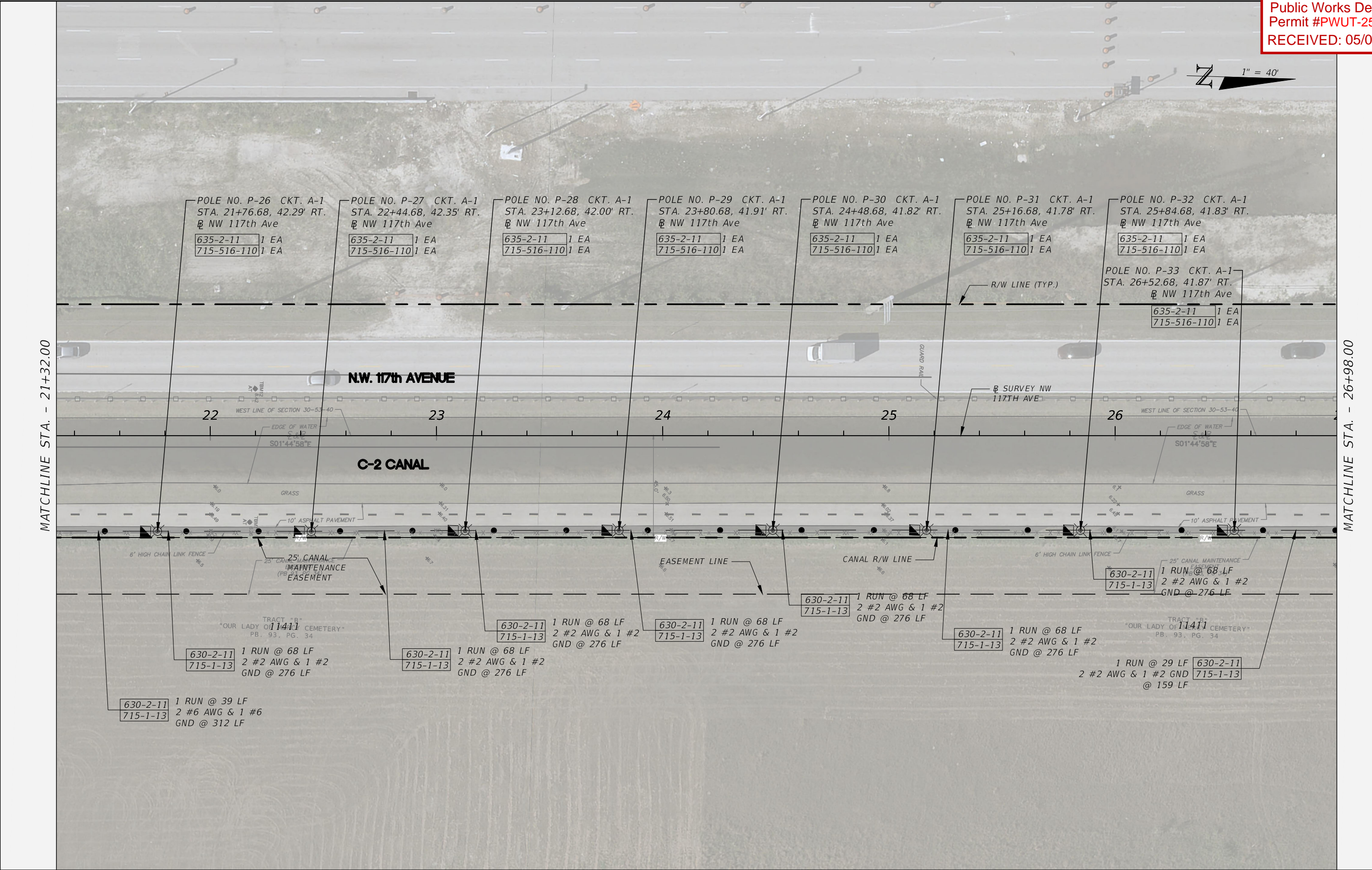
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (4)	SHEET NO.
DATE	DESCRIPTION						
							L-18






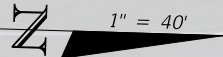
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (5)	SHEET NO.
DATE	DESCRIPTION						
							L-19





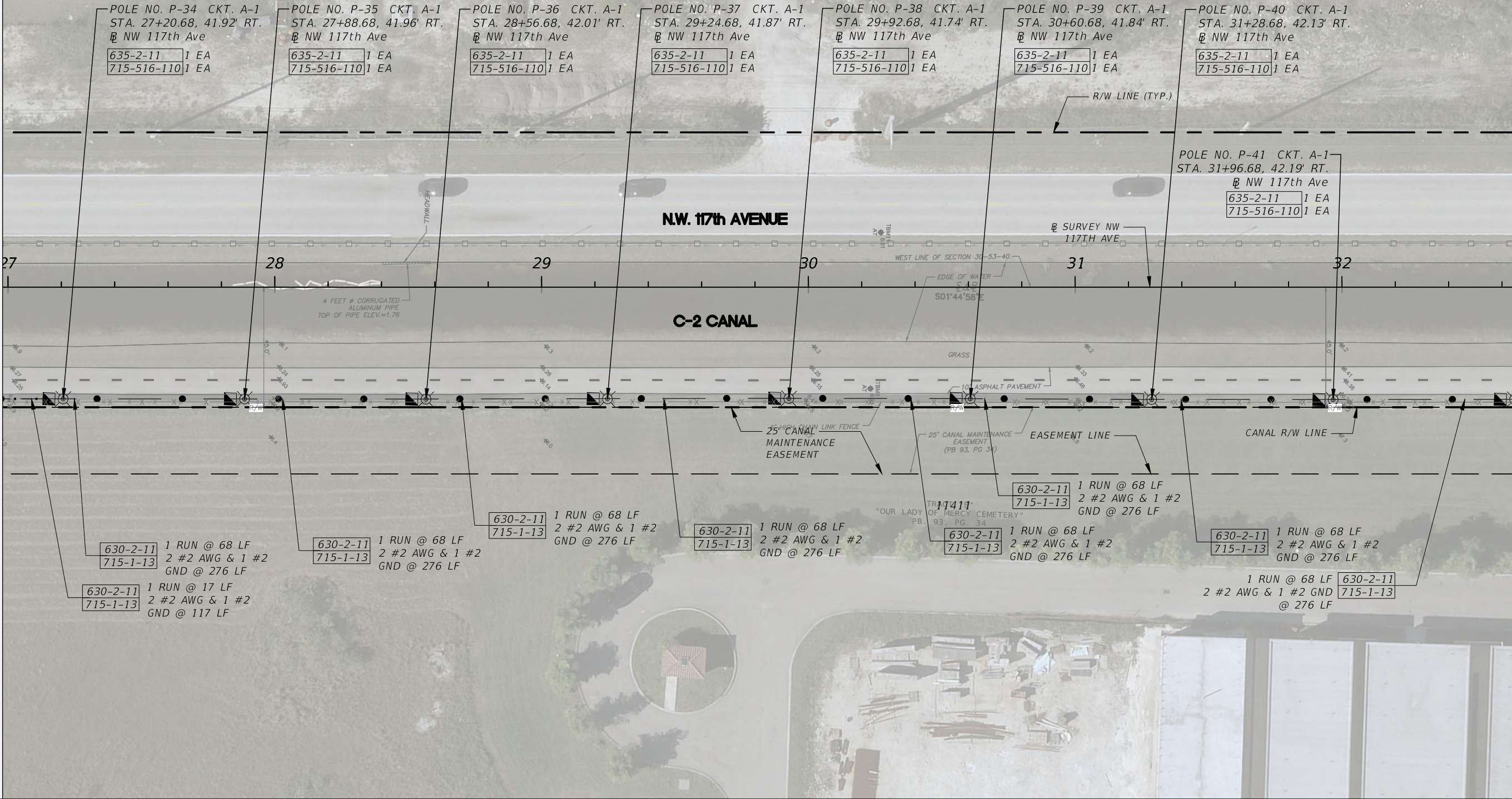
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (6)	SHEET NO.
DATE	DESCRIPTION						
							L-20







MATCHLINE STA. - 26+98.00

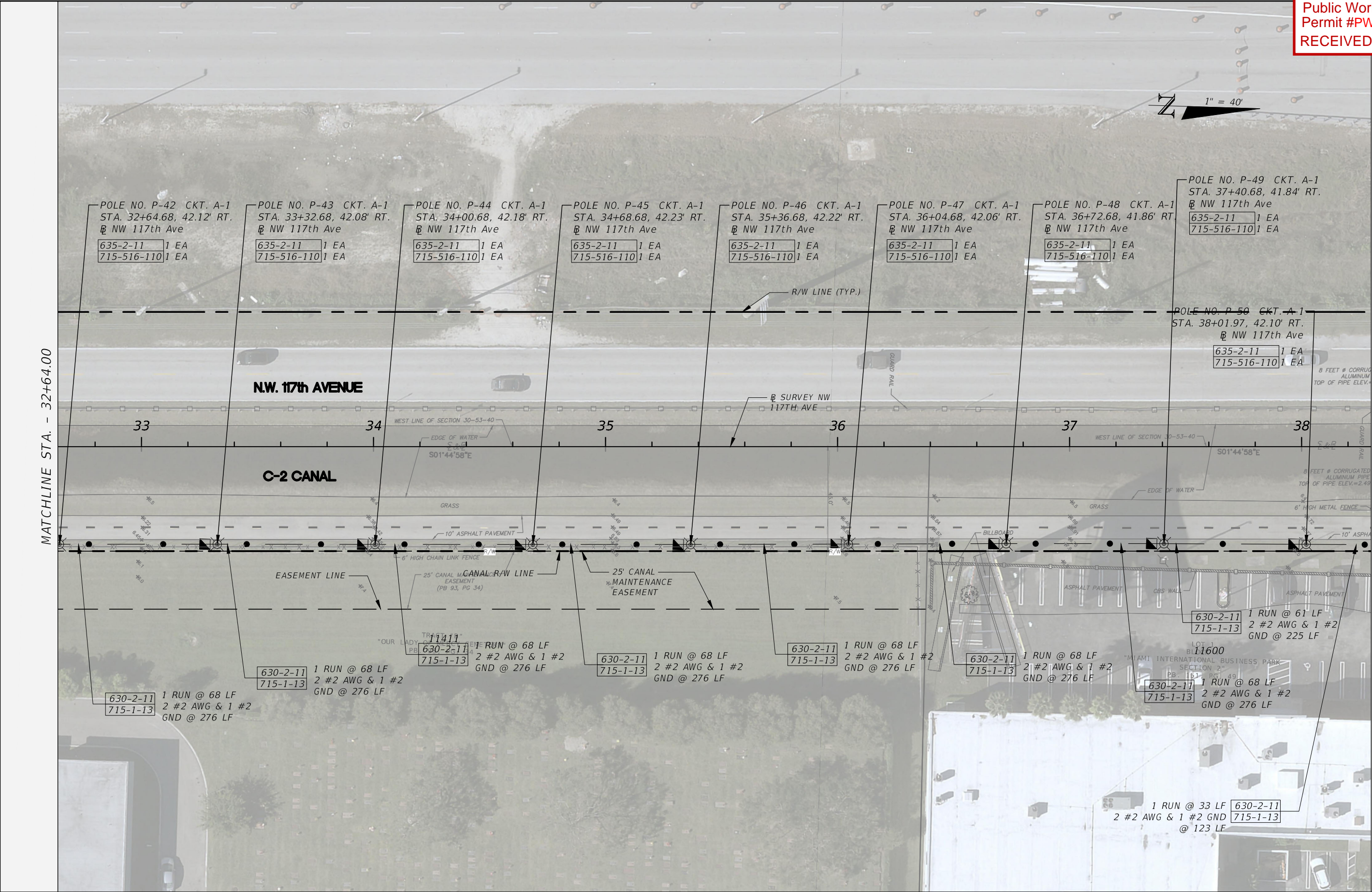
MATCHLINE STA. - 32+64.00





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DATE	DESCRIPTION						

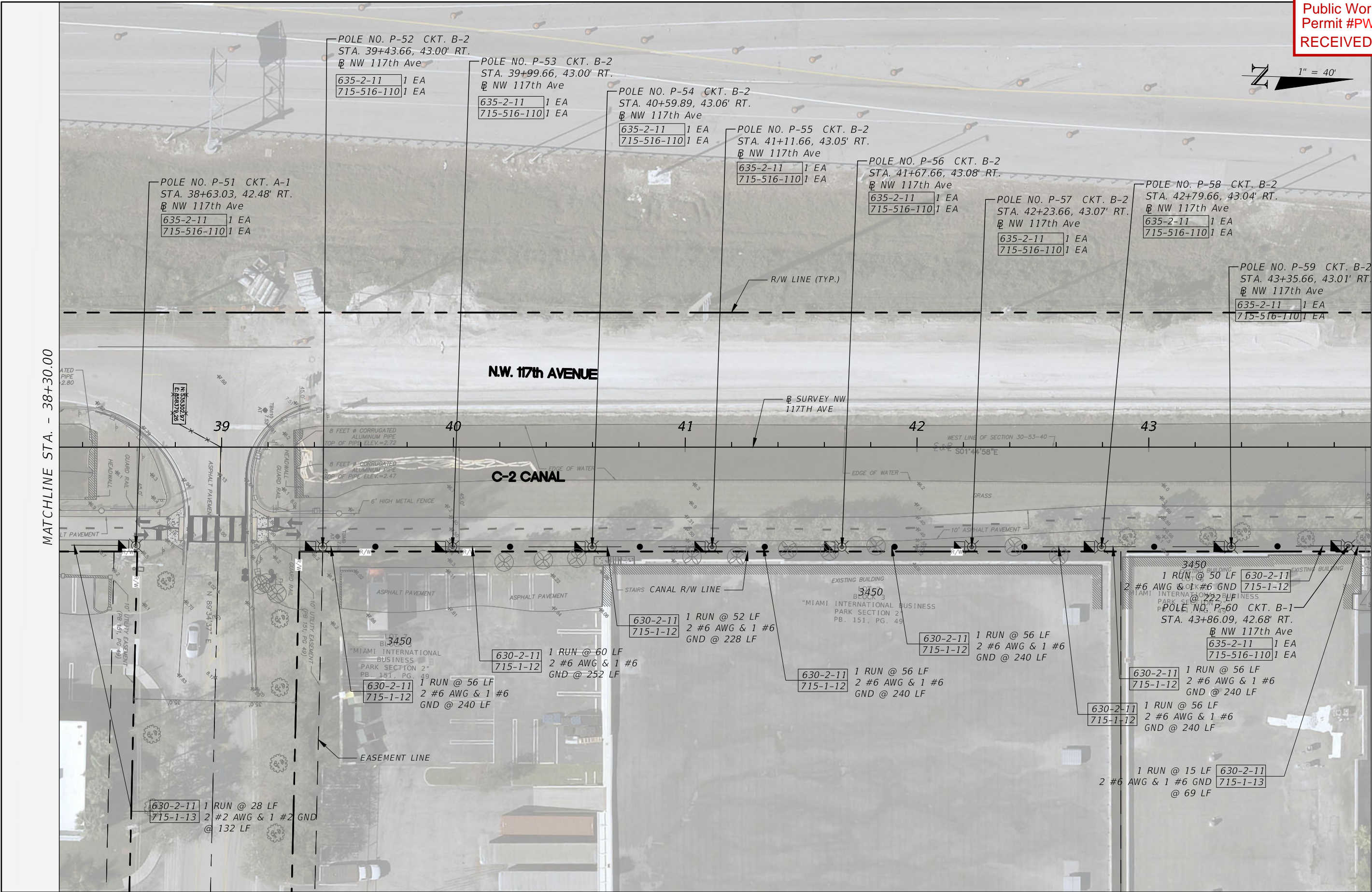
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DATE	DESCRIPTION						
							L-22





REVISIONS	
DATE	DESCRIPTION



# Lochner

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CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



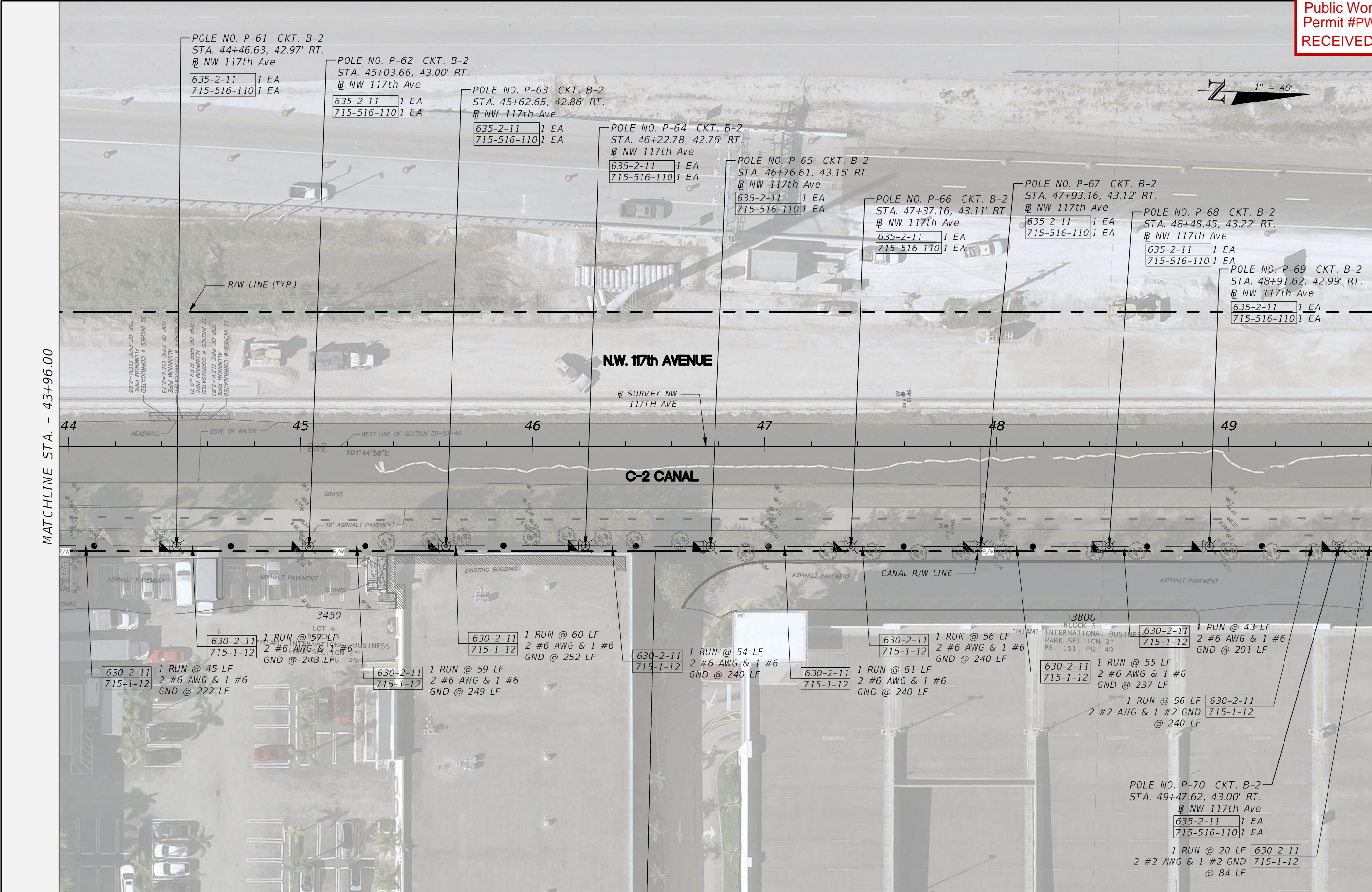
LIGHTING PLAN (9)

SHEET NO.

L-23

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8750 NW 36th STREET - SUITE 360  
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IMPROVEMENTS

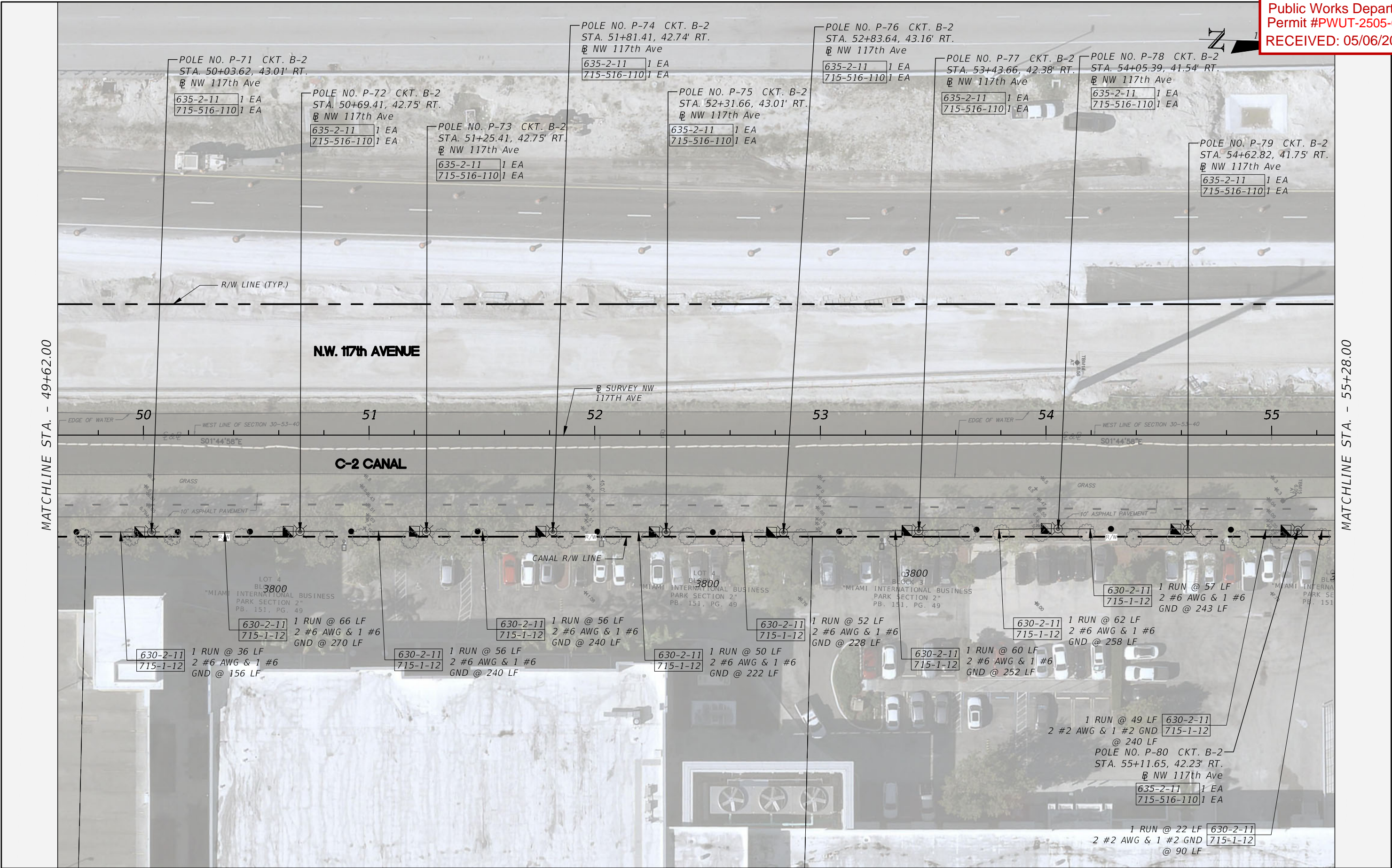


LIGHTING PLAN (10)

SHEET NO.
L-24

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8750 NW 36th STREET - SUITE 360  
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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

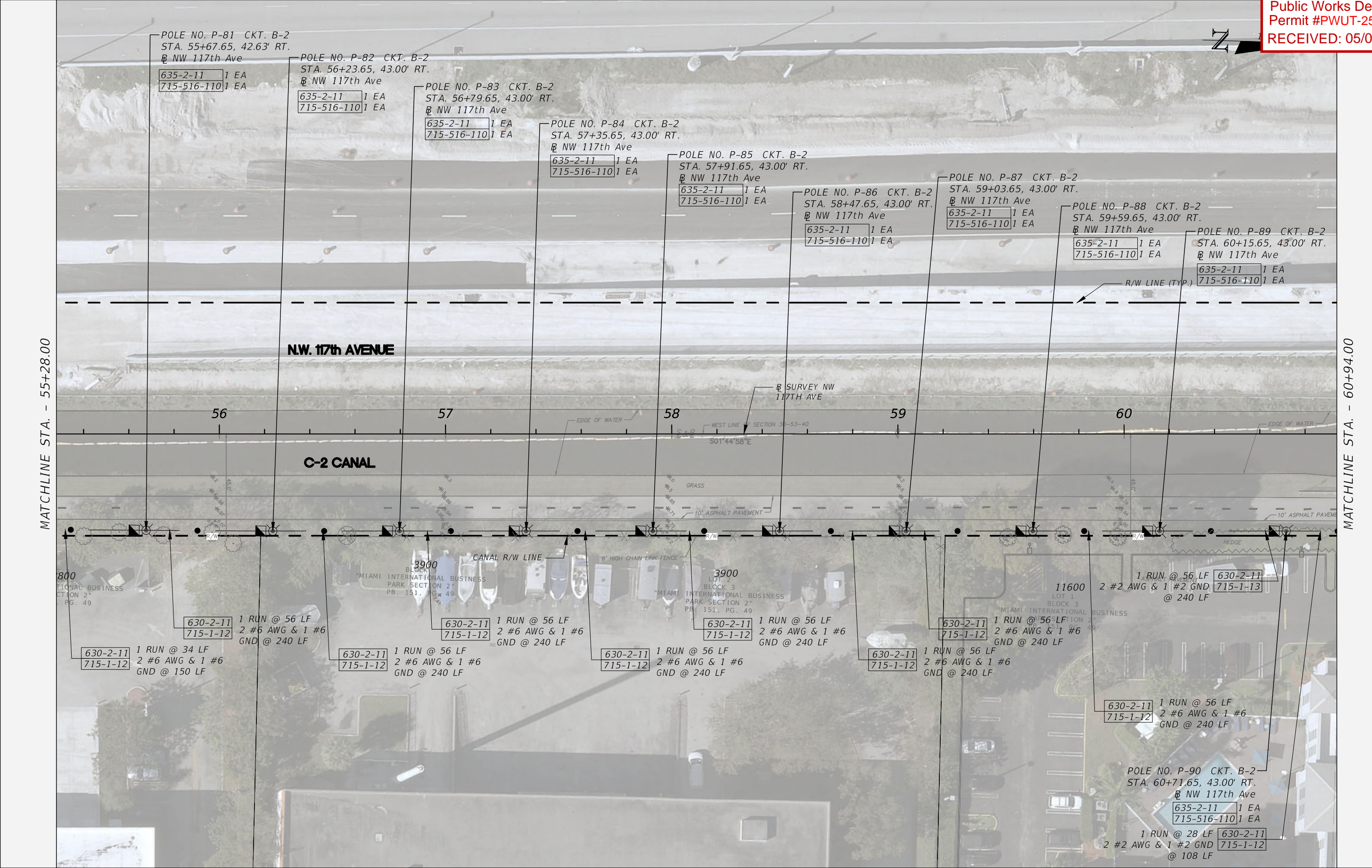


LIGHTING PLAN (11)

SHEET NO.
L-25

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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (12)

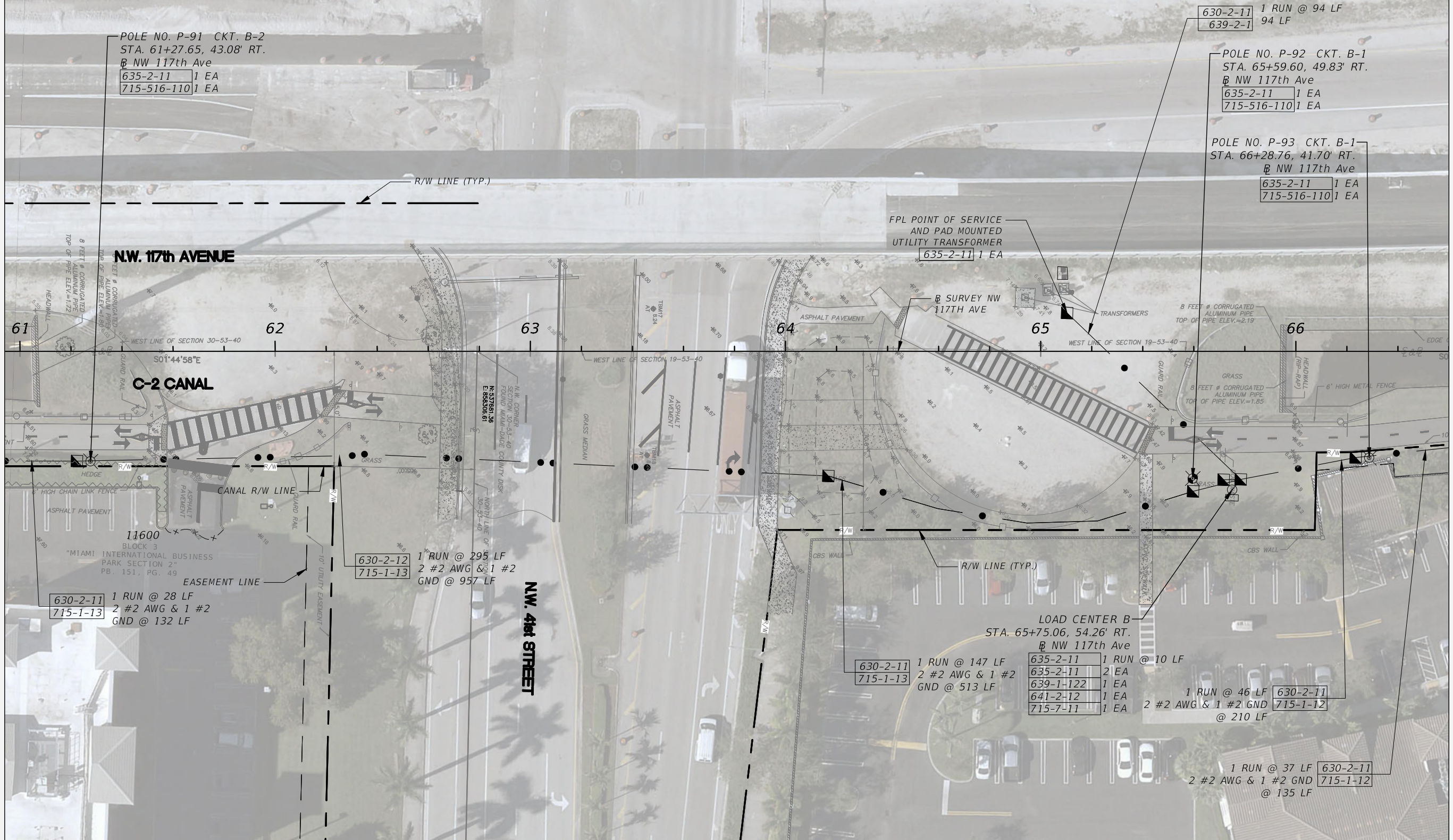
SHEET NO.
L-26

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MATCHLINE STA. - 60+94.00

MATCHLINE STA. - 66+60.00



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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (13)

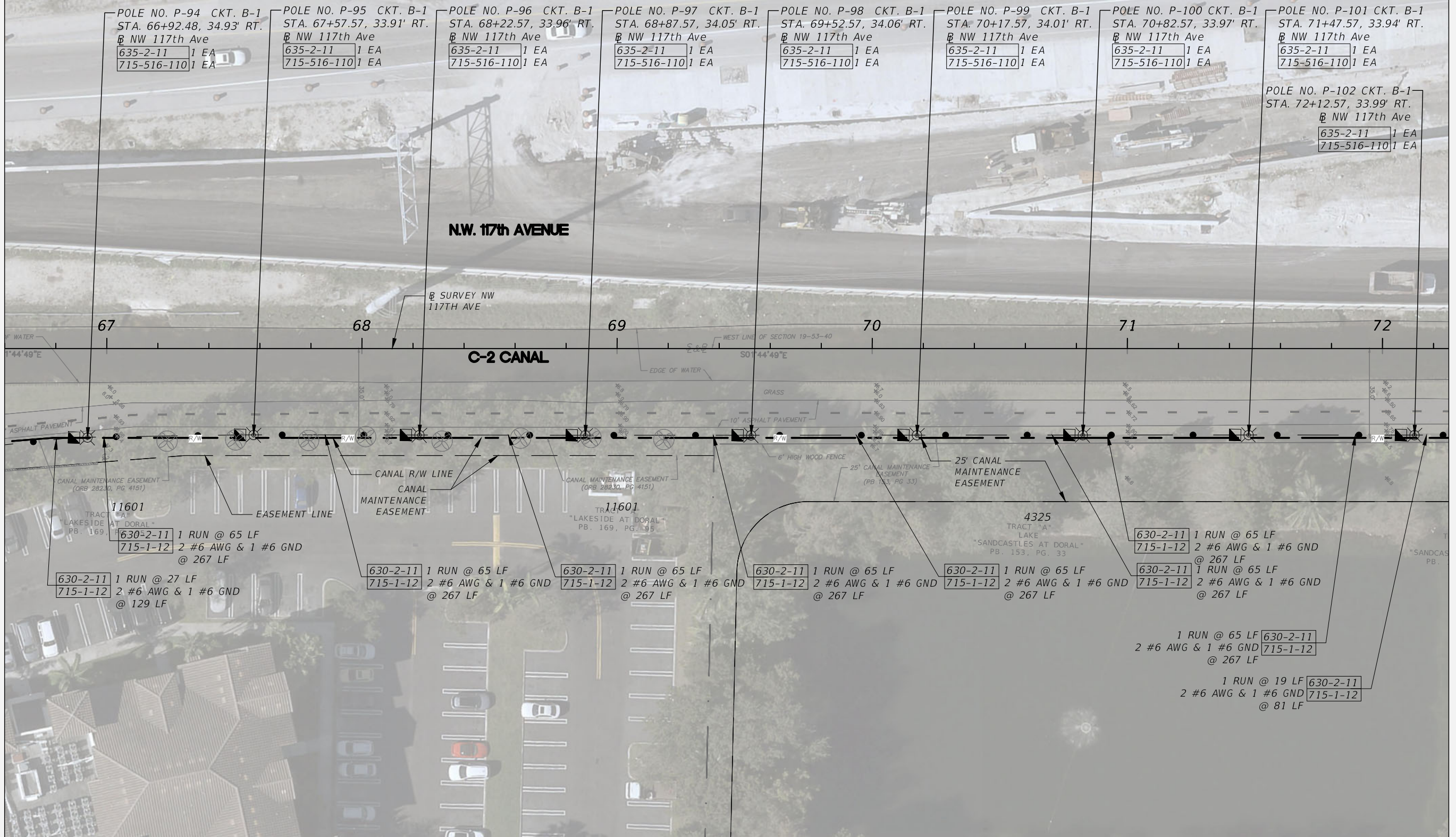
SHEET  
NO.

L-27





MATCHLINE STA. - 66+60.00

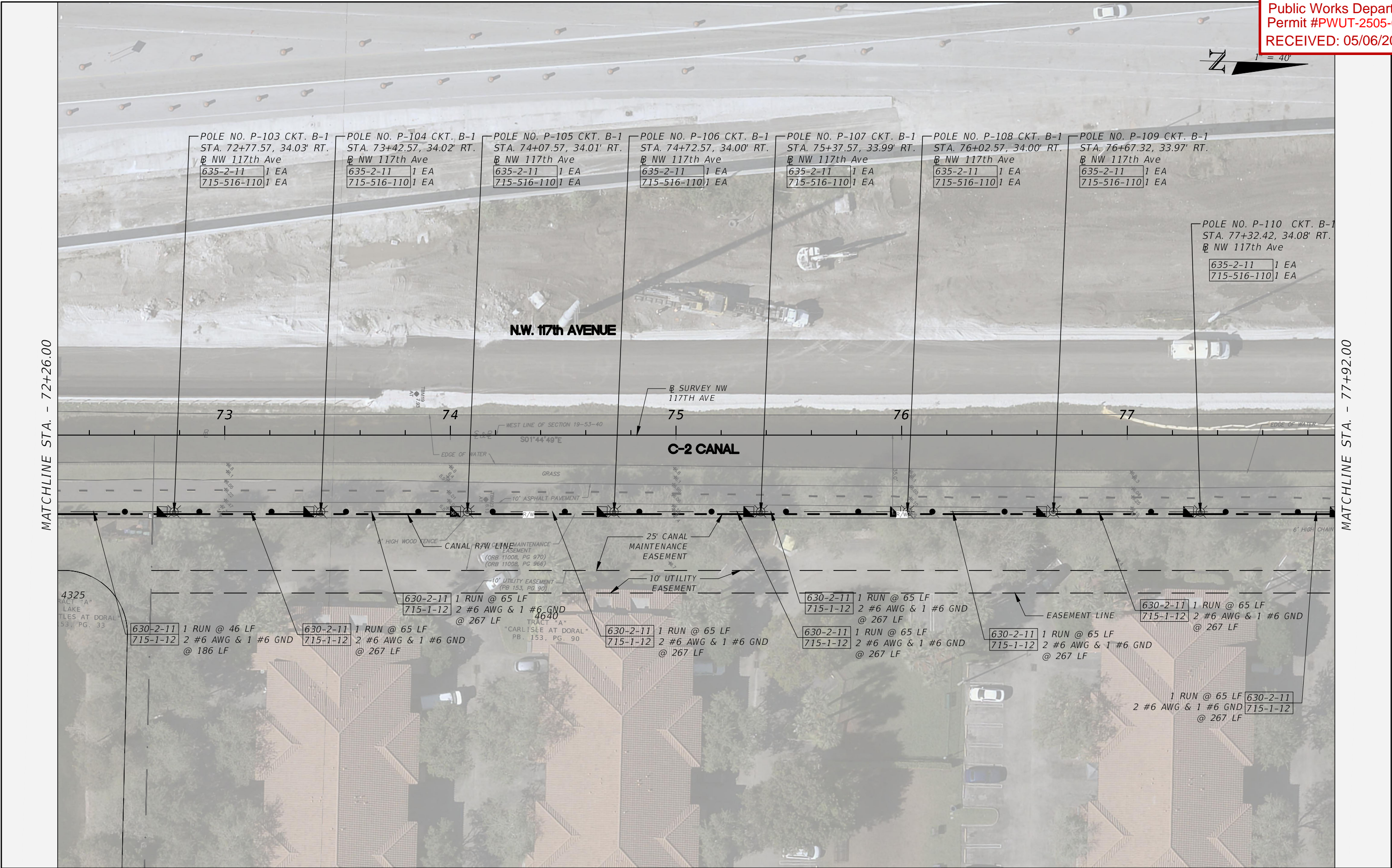
MATCHLINE STA. - 72+26.00



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DATE	DESCRIPTION						
							L-28





REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (15)

SHEET NO.
L-29

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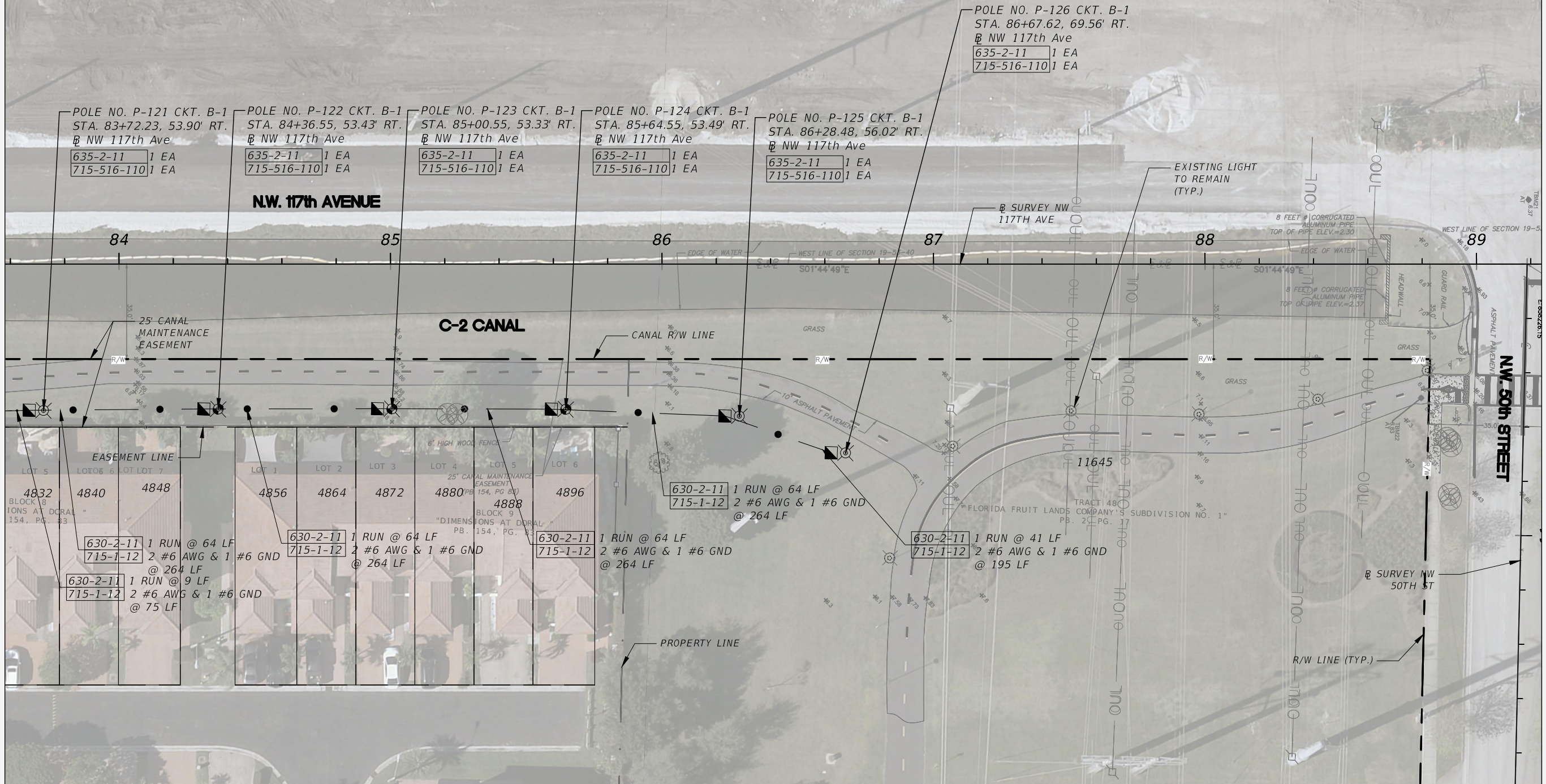


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MATCHLINE STA. - 83+58.00

MATCHLINE STA. - 89+24.00



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MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (17)

SHEET  
NO.

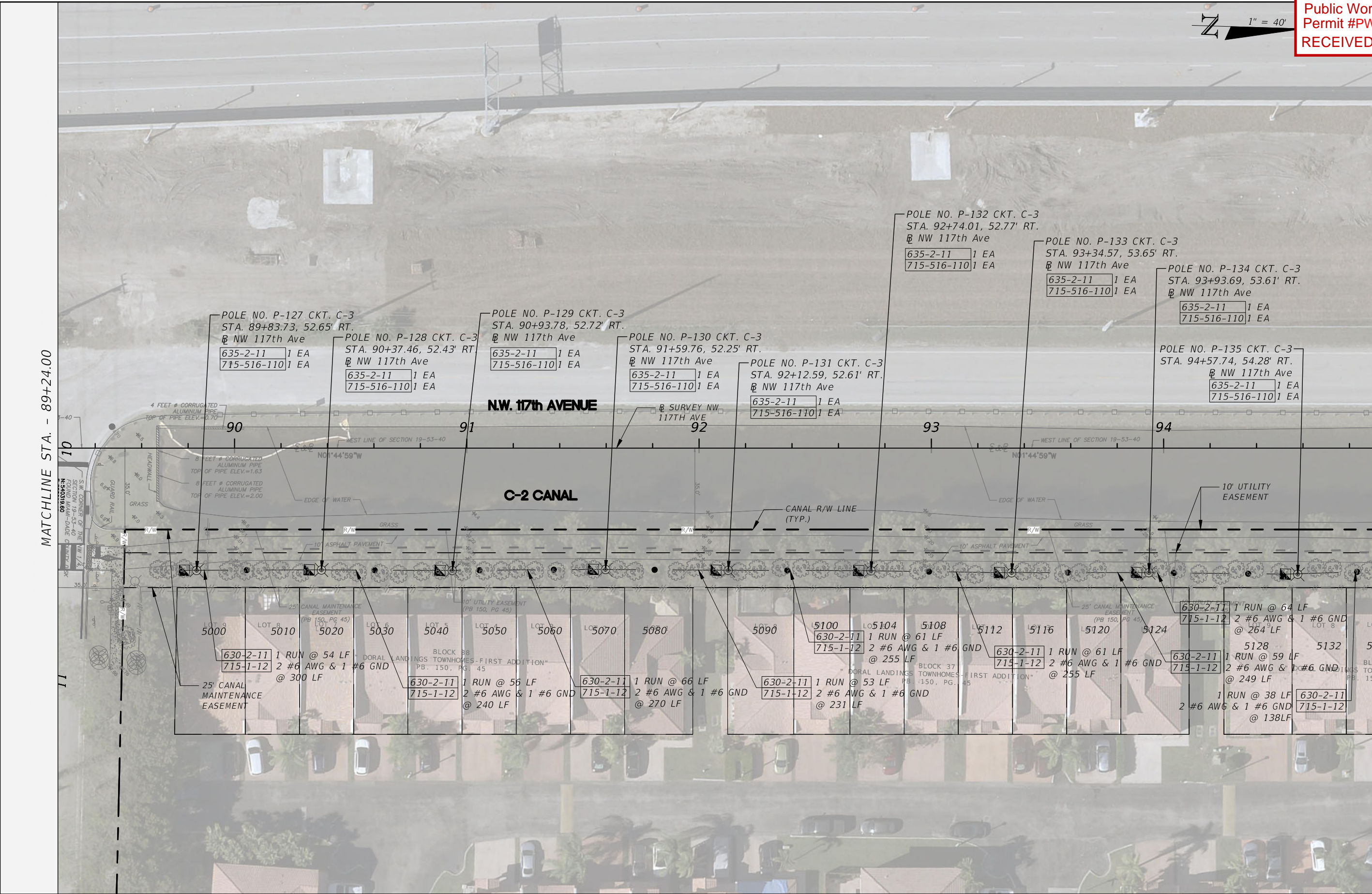
L-31





1" = 40'

MATCHLINE STA. - 89+24.00

MATCHLINE STA. - 94+90.00



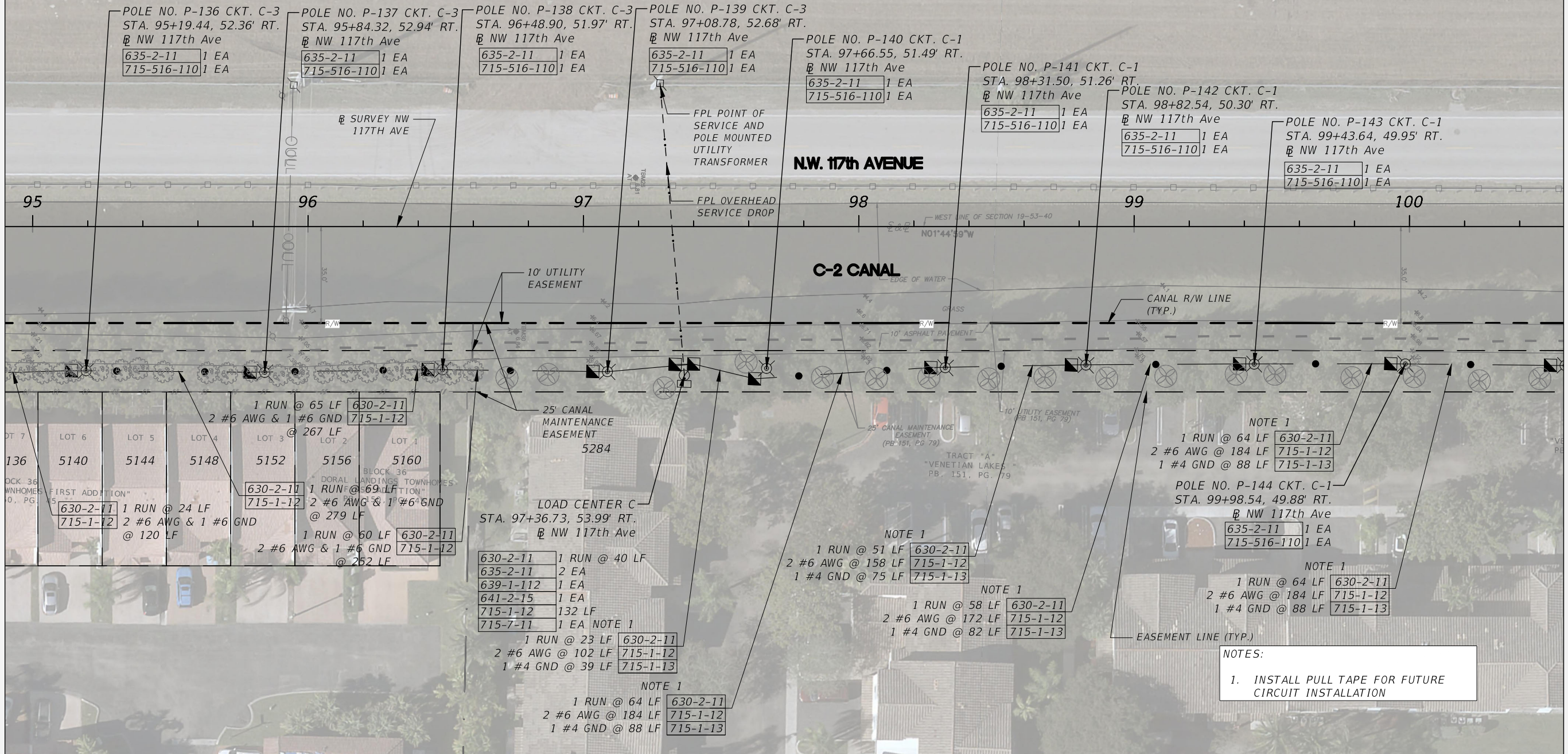
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (18)	SHEET NO.
DATE	DESCRIPTION						
							L-32

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MATCHLINE STA. - 94+90.00

MATCHLINE STA. - 100+56.00



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CONSULTING ENGINEERS AND PLANNERS  
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MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (19)

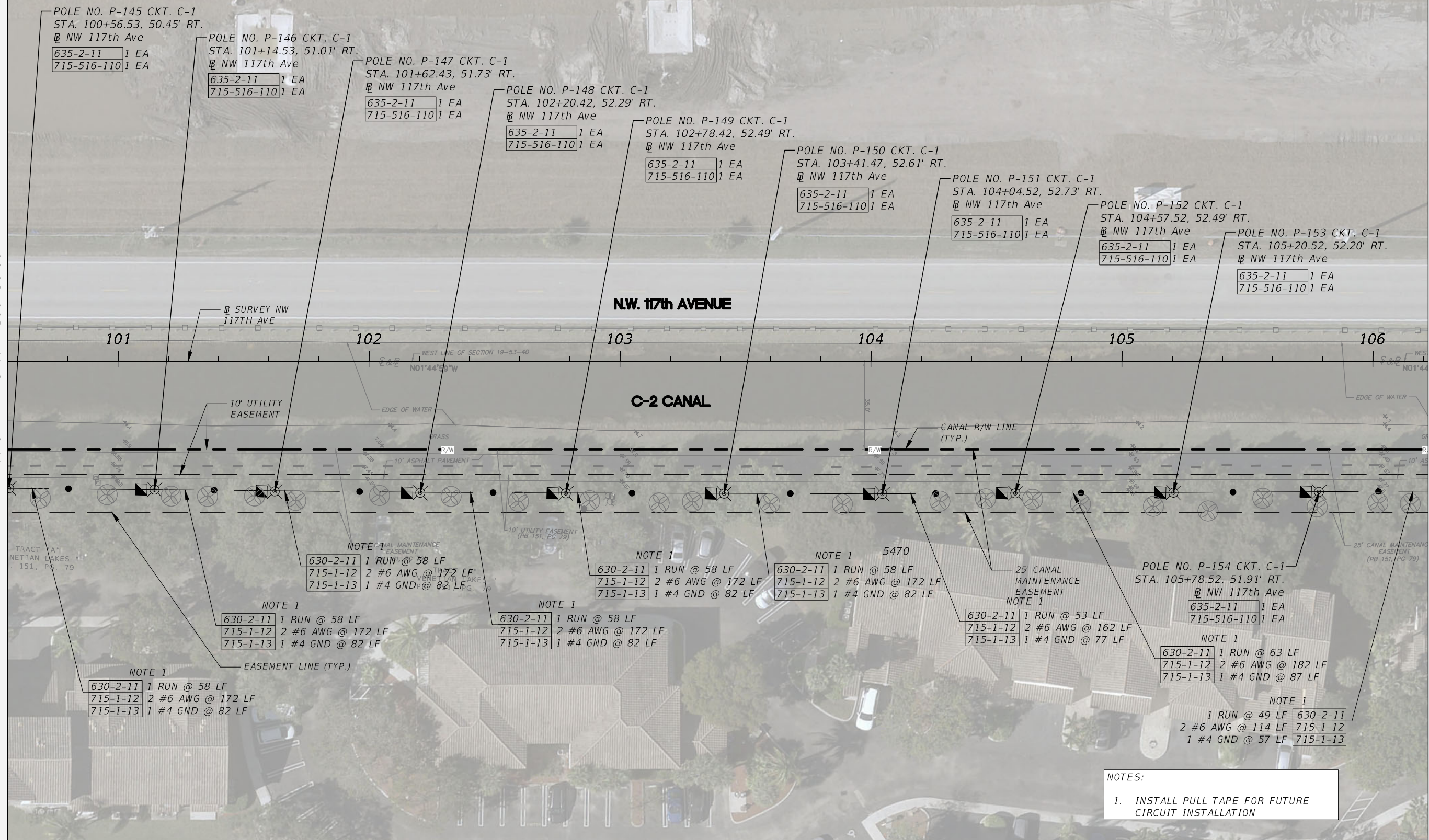
SHEET  
NO.



L-33



MATCHLINE STA. - 100+56.00

MATCHLINE STA. - 106+22.00



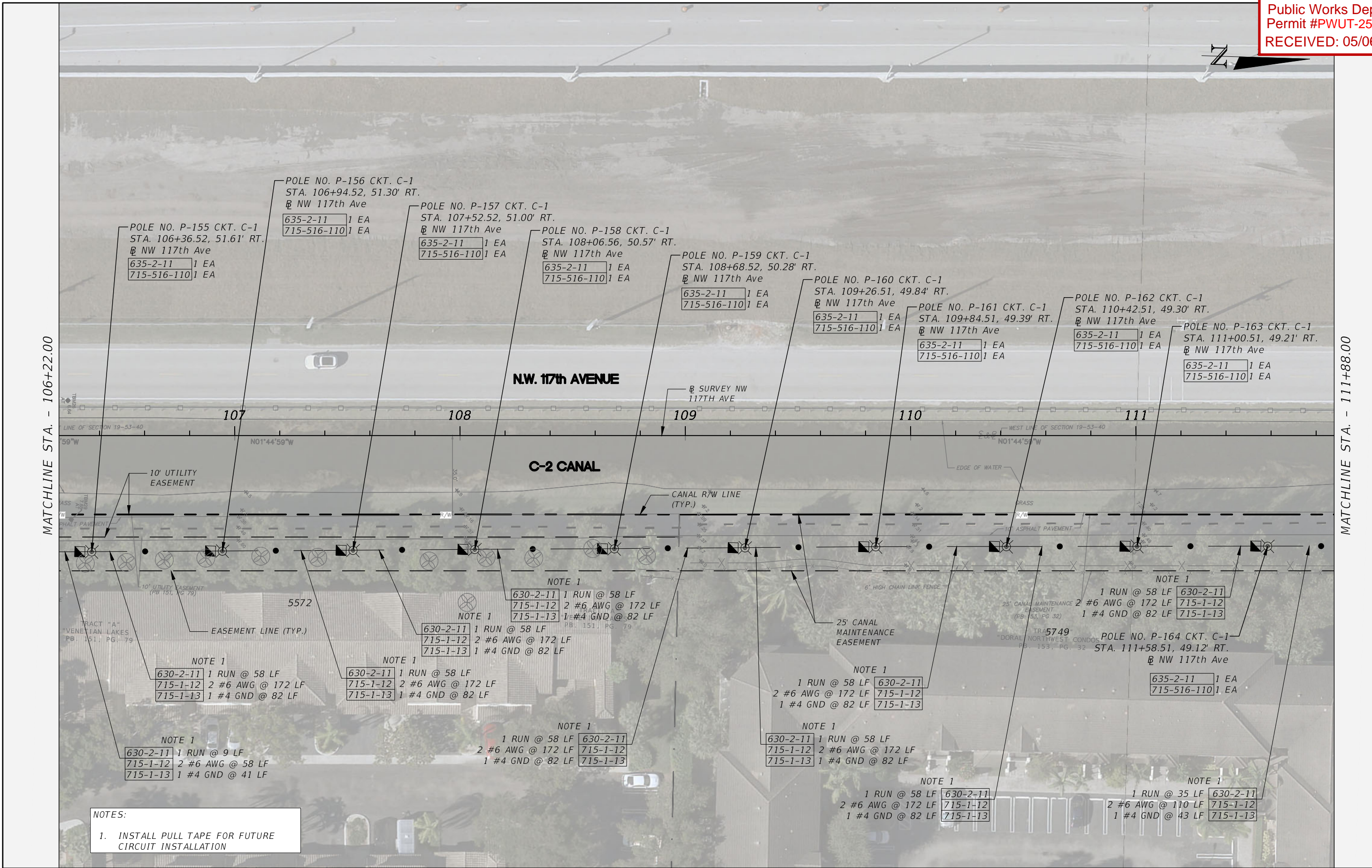
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (20)	SHEET NO.  L-34
DATE	DESCRIPTION						

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MATCHLINE STA. - 106+22.00

MATCHLINE STA. - 111+88.00



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CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

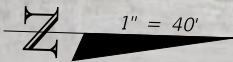


LIGHTING PLAN (21)

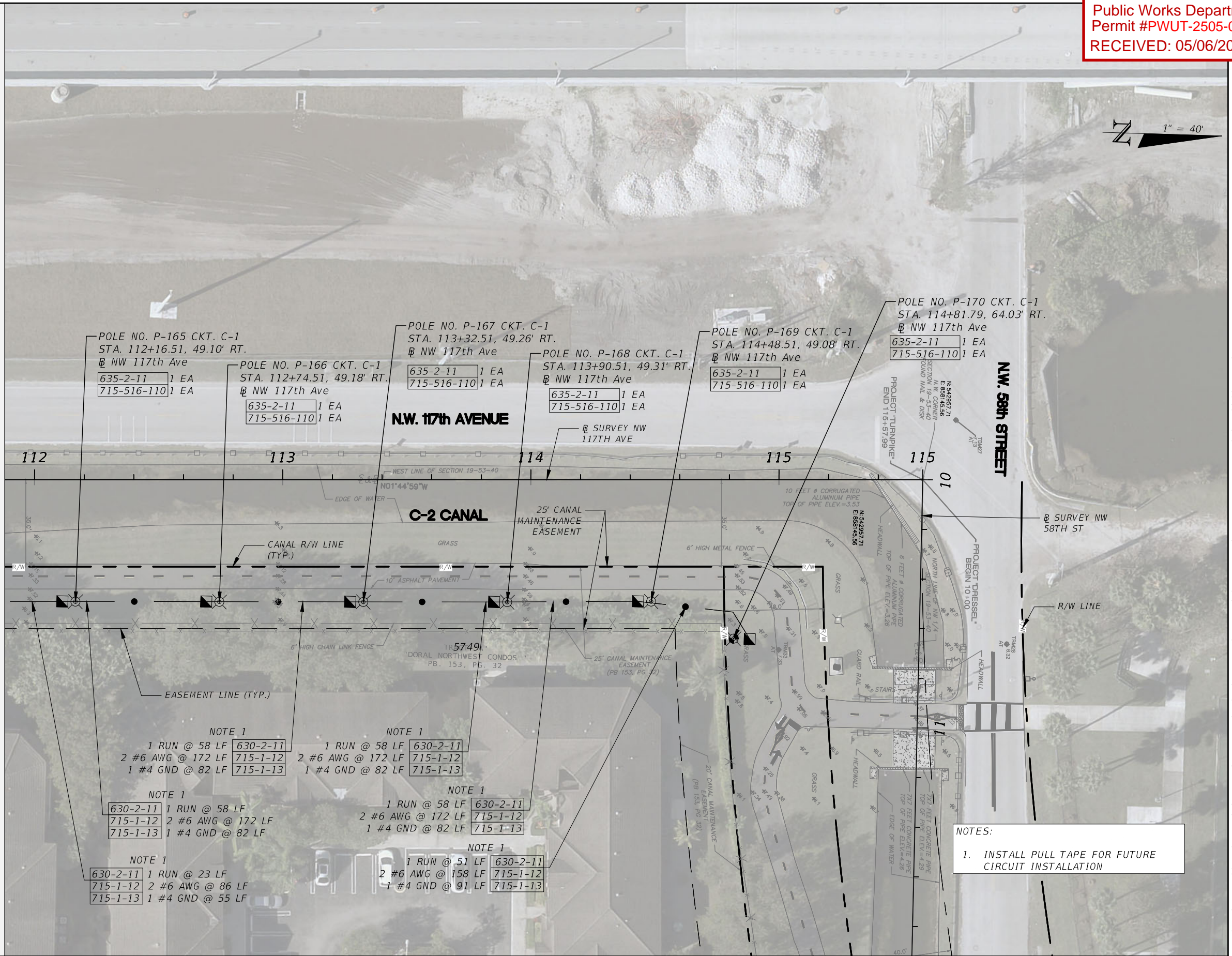
SHEET  
NO.

L-35





MATCHLINE STA. - 111+88.00



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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

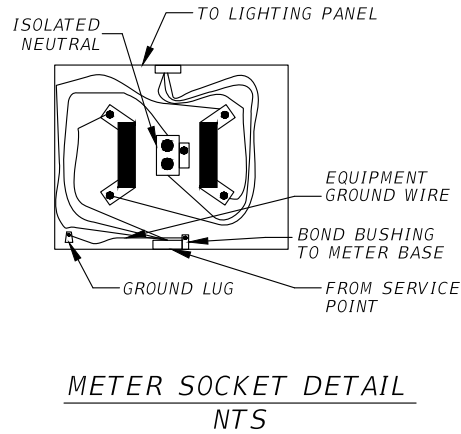
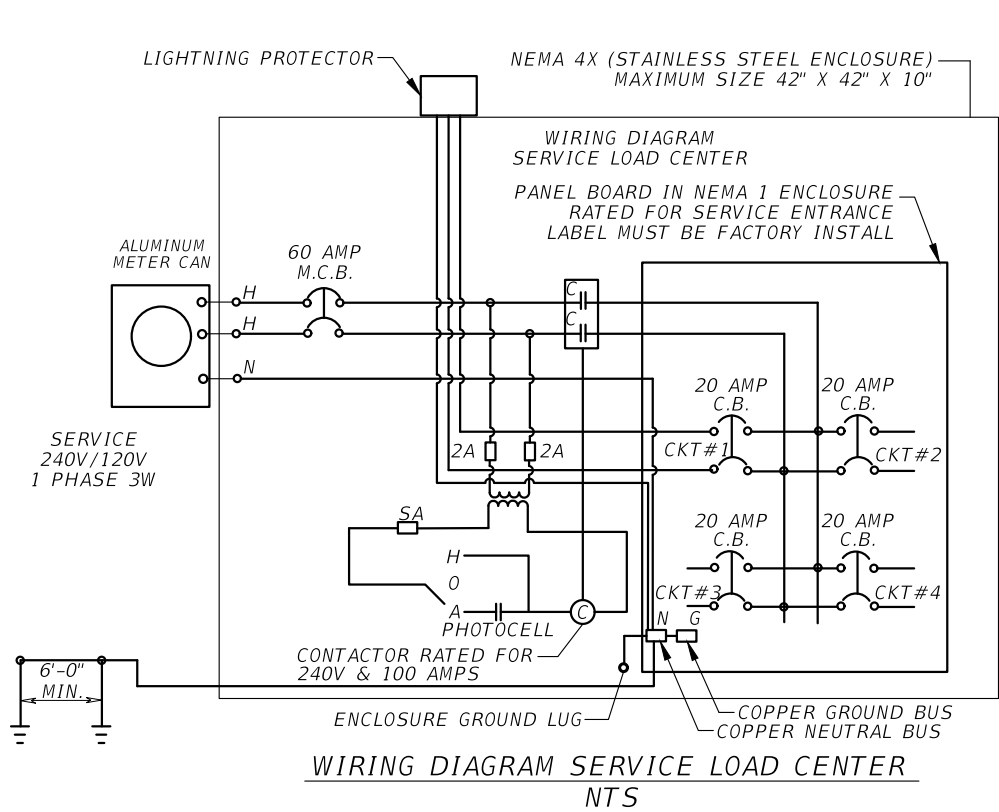


LIGHTING PLAN (22)

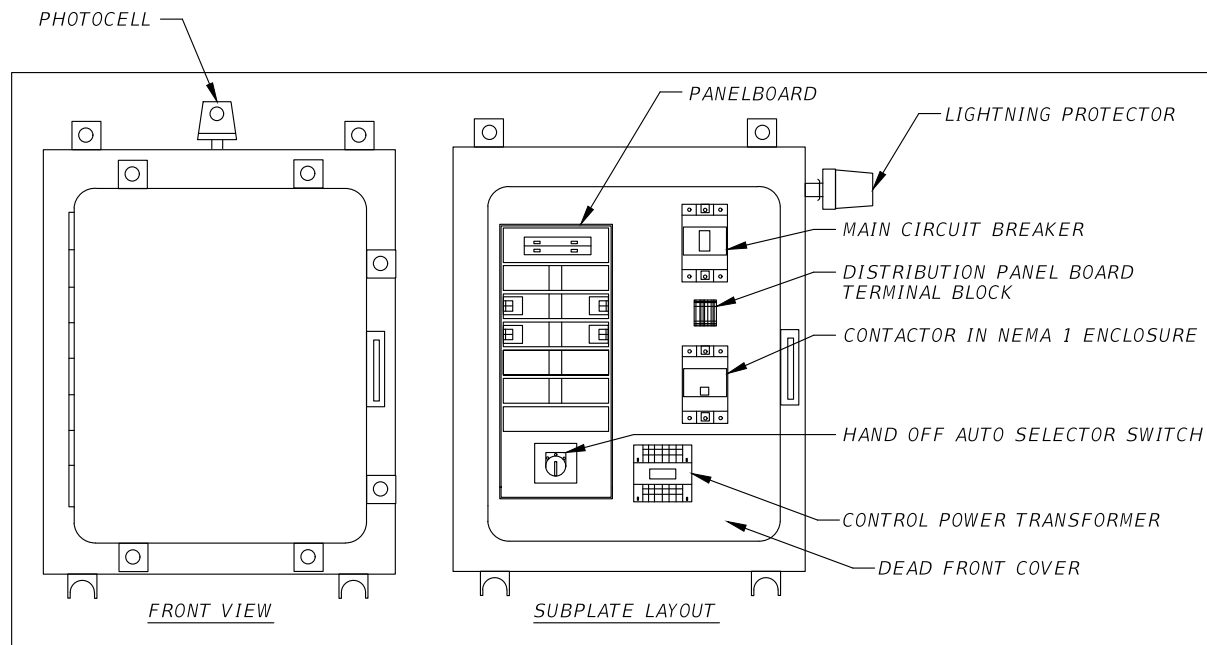
SHEET NO.  
L-36

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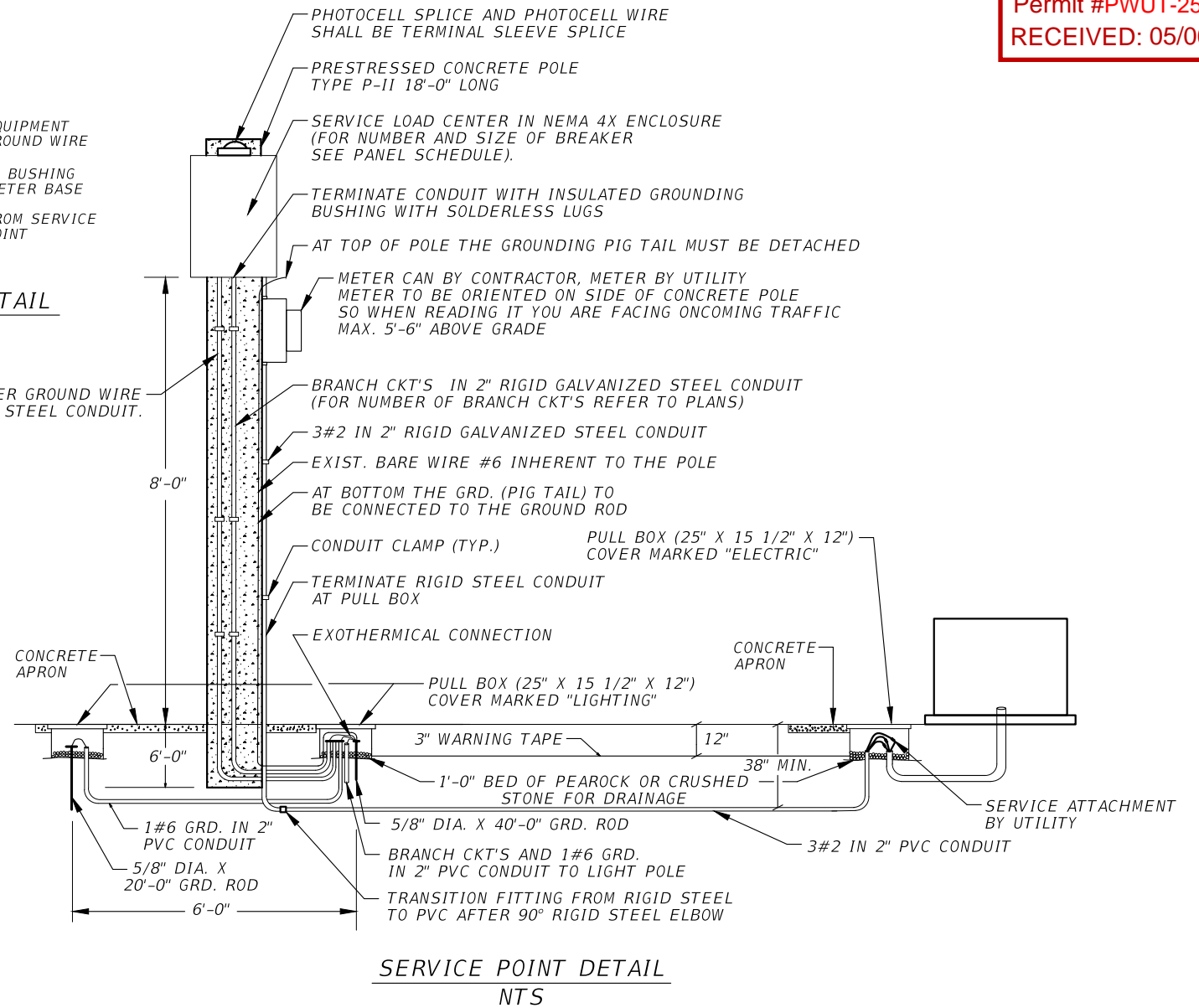


#6 AWG INSULATED COPPER GROUND WIRE  
IN 3/4" RIGID GALVANIZED STEEL CONDUIT.



NOTES:



1. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
2. PROVIDE SIGNED AND SEALED STRUCTURAL PLANS AND CALCULATIONS FOR THE PRESTRESSED CONCRETE POLE.
3. PROVIDE ALUMINUM METER APPROVED BY FPL WITH A GROUND LUG, BYPASS MECHANISM WITH LEVER AND ISOLATED NEUTRAL



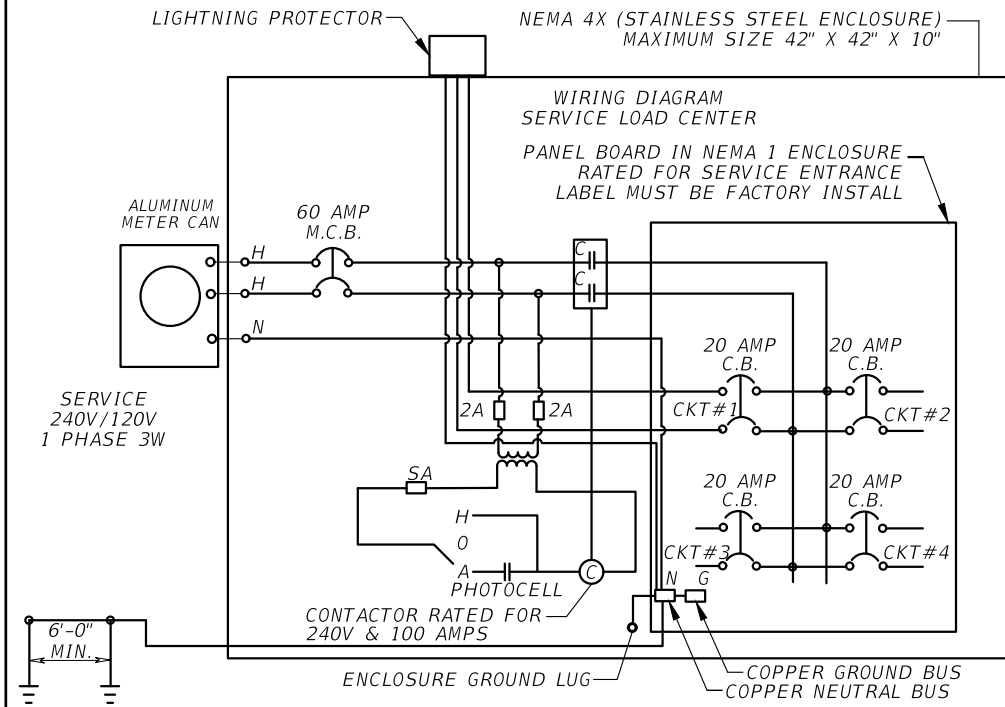
LOAD CENTER B PANEL BOARD SCHEDULE					
NEMA-1 10,3W,240/120 V (2P - 100 A MCB)					
10,000 RMS SYMETRICAL SURF-MTD					
CKT NO	SERVING	KVA	AMPS	FUSE	WIRE/CONDUCT
B-0	LIGHTNING PROT.	-	-	20	
B-1	PED. LGT. (TPK) 34TH TO 41ST	2.2	11.6	20	6 AWG
B-2	PED. LGT. (TPK) 41ST TO 50TH	2.6	11.0	20	#6 AWG WITH #2 HOMERUN

NUMBERS OF BRANCH CKT. BREAKERS AS REQUIRED

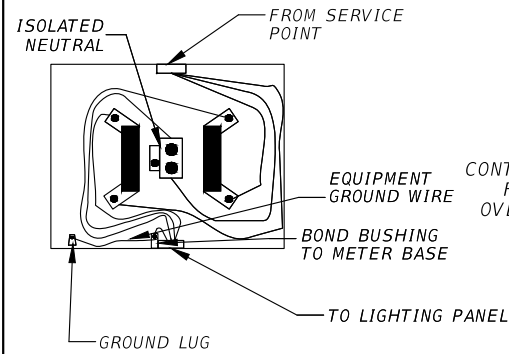
CONTINUOUS LOADS= 4856 VA  
25% CONT. LOAD= 1214 VA Amp= 25.3 A  
TOTAL= 6070 VA

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		SERVICE POINT ELECTRICAL DETAILS	SHEET NO.  L-37
DATE	DESCRIPTION						

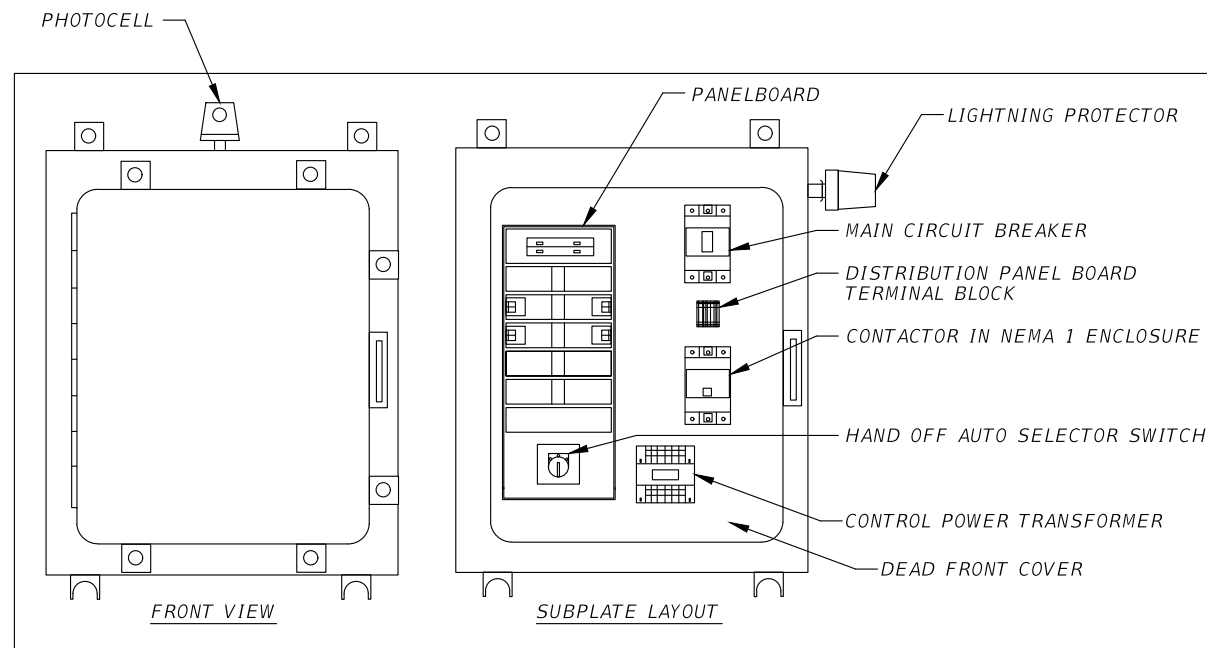




WIRING DIAGRAM SERVICE LOAD CENTER  
NTS



METER SOCKET DETAIL  
NTS



LIGHTING CONTROL CENTER  
NTS

NOTES:

1. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
2. PROVIDE SIGNED AND SEALED STRUCTURAL PLANS AND CALCULATIONS FOR THE PRESTRESSED CONCRETE POLE.
3. PROVIDE ALUMINUM METER APPROVED BY FPL WITH A GROUND LUG, BYPASS MECHANISM WITH LEVER AND ISOLATED NEUTRAL
4. PROVIDE SHOP DRAWING SUBMITTAL FOR PRESTRESSED CONCRETE POLE. INCLUDE CONCRETE POLE CALCULATIONSSIGNED BY AN ENGINEER.

PRESTRESSED CONCRETE POLE, TYPE P-V, 50FT PER FDOT STANDARD INDEX 641-010  
MINIMUM LENGTH OF 10 FEET SHALL BE PROVIDED FOR EACH WEATHER HEAD CONDUCTOR. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR MOUNTING HEIGHT REQUIREMENTS, AND CONNECTION. OVERHEAD CROSSING SHALL MAINTAIN MINIMUM CLEARANCE OF 40' FROM GRADE AT MAXIMUM POINT OF SAG

PHOTOCELL SPLICE AND PHOTOCELL WIRE SHALL BE TERMINAL SLEEVE SPLICE  
SERVICE LOAD CENTER IN NEMA 4X ENCLOSURE (FOR NUMBER AND SIZE OF BREAKER SEE PANEL SCHEDULE)  
TERMINATE CONDUIT WITH INSULATED GROUNDING BUSHING WITH SOLDERLESS LUGS

#6 INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL CONDUIT

PULL BOX (25" X 15 1/2" X 12") COVER MARKED "LIGHTING"

CONCRETE  
1'-0" BED OF PEAROCK OR CRUSHED STONE FOR DRAINAGE.  
6'-0"  
GROUND  
BRANCH CKT'S AND 1#6 GRD. IN 2" COND. TO LIGHTING POLE  
5/8" DIA. X 20'-0" GRD ROD

SERVICE POINT DETAIL  
NTS

LOAD CENTER A PANEL BOARD SCHEDULE					
NEMA-1 10,3W,240/120 V (2P - 100 A MCB)					
10,000 RMS SYMETRICAL SURF-MTD					
CKT NO	SERVING	KVA	AMPS	FUSE	WIRE/CONDUCT
A-0	LIGHTNING PROT.	-	-	20	
A-1	PED. LGT. (TPK) 25TH TO 34TH	3.1	12.8	20	#2 AWG
A-2	PED. LGT. (BCN) GLRY TO E OF 112	2.7	11.5	20	#8 AWG
A-3	PED. LGT. (BCN) E OF 112 TO END	2.8	11.8	20	#2 AWG

NUMBERS OF BRANCH CKT. BREAKERS AS REQUIRED

CONTINUOUS LOADS= 8631 VA  
25% CONT. LOAD= 2158 VA  
TOTAL= 10789 VA  
Amp= 45.0 A

LOAD CENTER C PANEL BOARD SCHEDULE					
NEMA-1 10,3W,240/120 V (2P - 100 A MCB)					
10,000 RMS SYMETRICAL SURF-MTD					
CKT NO	SERVING	KVA	AMPS	FUSE	WIRE/CONDUCT
C-0	LIGHTNING PROT.	-	-	20	
C-1	PED. LGT. (TPK) LC-C TO 58TH	1.9	7.90	20	#8 AWG
C-2	PED. LGT. (DRES) 117TH TO 114TH	1.6	6.7	20	#6 AWG WITH #4 HOMERUN
C-3	PED. LGT. (TPK) LC-C TO 50TH	0.8	3.25	20	#8 AWG

NUMBERS OF BRANCH CKT. BREAKERS AS REQUIRED

CONTINUOUS LOADS= 4269 VA  
25% CONT. LOAD= 1067 VA  
TOTAL= 5336 VA  
Amp= 22.2 A

REVISIONS	
DATE	DESCRIPTION



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8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

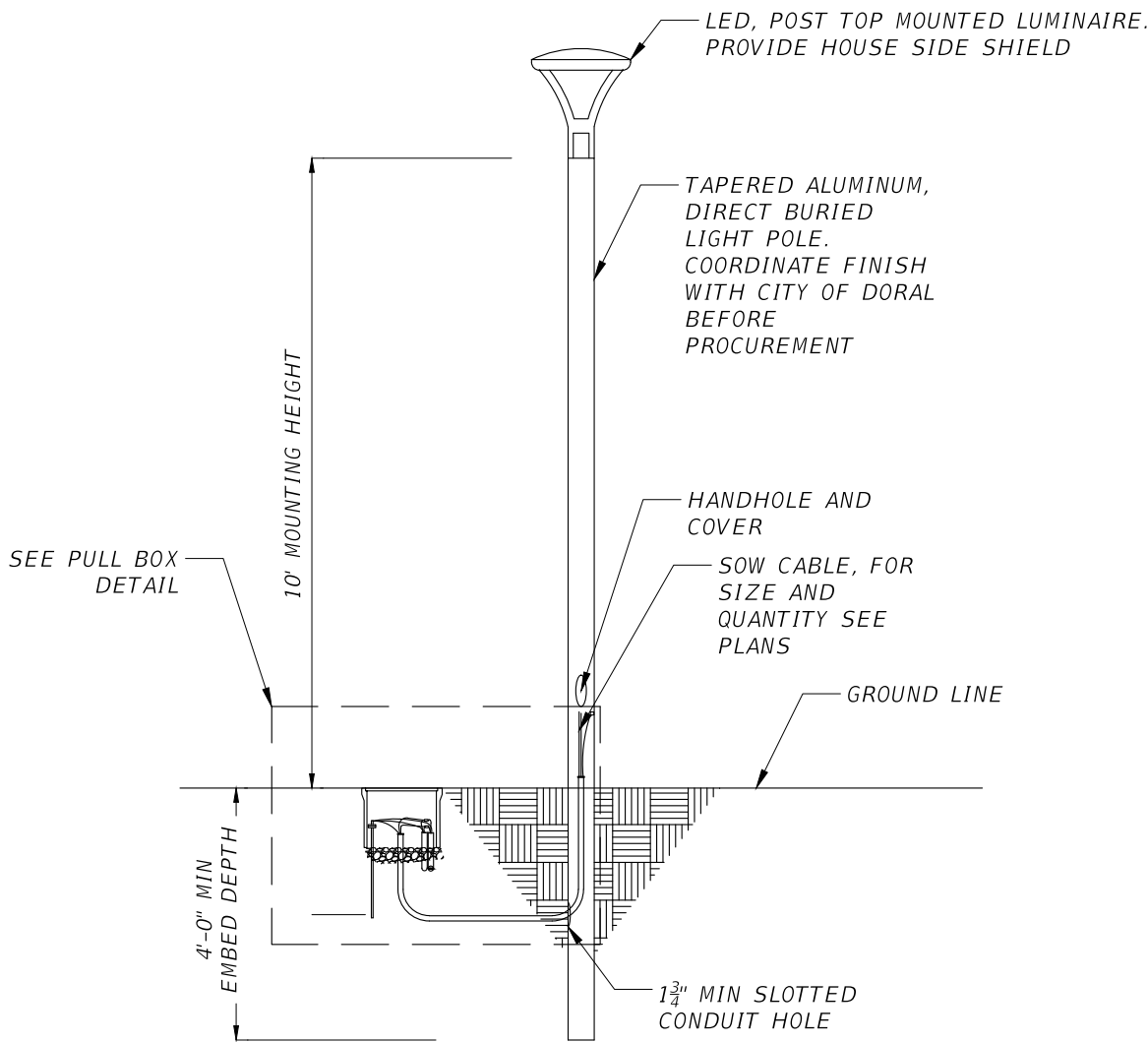


SERVICE POINT ELECTRICAL  
DETAILS

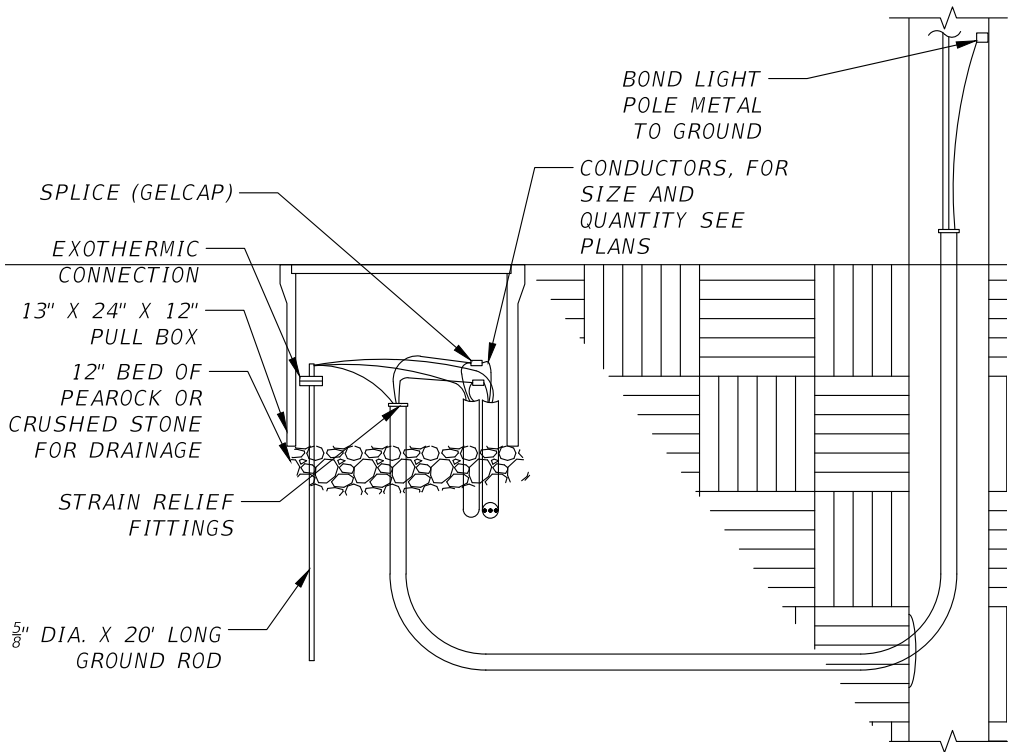
SHEET  
NO.

L-38





LIGHT POLE DETAIL



PULL BOX DETAIL

REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHT POLE DETAIL

SHEET  
NO.

L-39



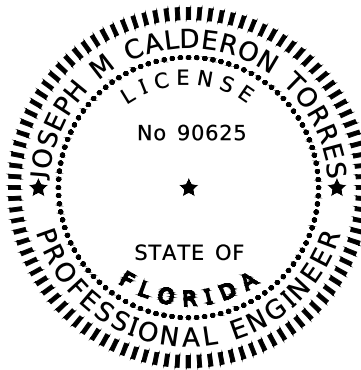
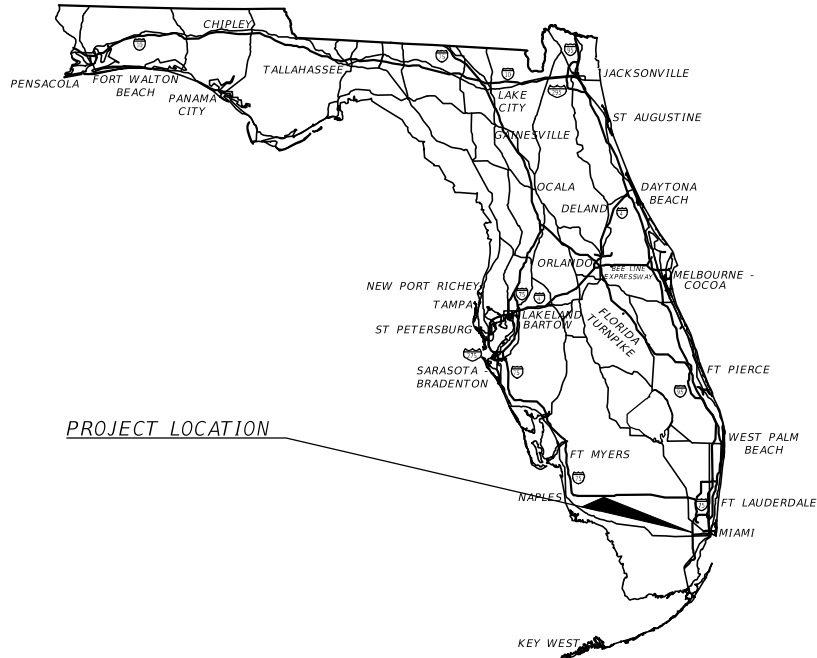
INDEX OF LIGHTING PLANS

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CITY OF DORAL, FLORIDA

TRAIL LIGHTING  
IMPROVEMENT PLANS

BEACON TRAIL ALONG NW 25TH ST FROM EAST  
OF NW 117TH AVE TO WEST OF NW 107TH AVE.



THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY

Joseph M Calderon Torres  
2025.04.08 14:53:42-04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES

LIGHTING PLANS  
ENGINEER OF RECORD:

JOSEPH M. CALDERON TORRES II, P.E.  
P.E. NO.: 90625  
H.W. LOCHNER, INC  
8750 N.W. 36TH STREET, SUITE 360  
MIAMI, FLORIDA 33178  
TEL: (305) 503-9873; FAX: (305) 503-9882  
VENDOR NO.: VF-362-338-11

PERMIT SUBMITTAL

GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY 2025-26 Standard plans for  
Road and Bridge Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are available  
at the following website:  
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures  
Plans Component.

GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, FY 2025-26 Standard  
Specifications for Road and Bridge Construction at the following  
website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SHEET  
NO.

L-1



[illegible]



Hernandez, Kevin	4/8/2025 9:53:02 AM	I:\MIA\PRJ\000021994\700_CADD\Lighting\Beacon Trail\TABQLT01.dwg
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



# TABULATION OF QUANTITIES

[illegible]

REVISIONS		 <b>Lochner</b>	JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION						
							L-3



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



GENERAL NOTES

1. CONTRACTOR TO FURNISH AND INSTALL THE ELECTRICAL SYSTEM AS DEPICTED ON ELECTRICAL DRAWINGS.
2. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA-70, 2020, FLORIDA BUILDING CODE, EIGHTH EDITION 2023, NFPA-101 2021, LOCAL CODES, AND OTHER APPLICABLE JURISDICTION CODES.
4. THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS. ALL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN.
5. THE CONTRACTOR TO COORDINATE THE WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL DETERMINE THE SERVICE REQUIRED DATE FOR THE POWER COMPANY CONFERENCE.
7. GROUNDING TO BE INSTALLED TO MEET NEC. ARTICLE 250 REQUIREMENTS. A GROUNDING SYSTEM SHALL NOT EXCEED A 48-HOUR DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS.
8. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FURNISHED, AND UL LISTED.
9. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL ABOVE GRADE CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
10. ELECTRICAL WARNING TAPE SHALL BE PLACED 12 INCHES DEEP ON TOP OF ALL UNDERGROUND TRENCHES.
11. ALL TRENCHES SHALL BE FILLED WITH COMPACTED EXISTING CLEAN BACKFILL (98% AASHTO T-99) AND COMPACTED UTILIZING COMPACTION MACHINE AT DEPTH OF NOT MORE THAN 6 INCH LAYERS.
12. ALL UNDERGROUND ELECTRICAL CONDUITS SHALL BE A MINIMUM OF 24 INCHES DEEP TO TOP OF BRANCH CIRCUIT CONDUIT AND 36 INCHES DEEP TO THE TOP OF FEEDER CONDUIT FROM FPL TRANSFORMER, UNLESS NOTED OTHERWISE.
13. INSTALL PULL BOXES AS NECESSARY TO ACCOMMODATE LONG CABLE PULLS. INSTALL DUCT SEALS AT END OF CONDUITS THAT ENTER PULL BOXES, AND JUNCTION BOXES. LEAVE A MINIMUM OF 6 INCH SPACE BETWEEN WIRES AND PULL BOX COVERS.
14. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. TRENCHING SHALL BE COORDINATED WITH OTHER TRADES SUCH AS LANDSCAPING, AND OTHER UNDERGROUND UTILITIES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATION. ADDITIONALLY, MAINTAIN ENOUGH DISTANCE FROM EXISTING TREES AND LANDSCAPE AREAS SUCH THAT MINIMUM DAMAGE IS DONE TO EXISTING ROOTS.
15. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
16. TYPE WRITTEN PANEL SCHEDULE SHALL BE INSTALLED IN THE PANEL BOARDS. ALL CIRCUITS SHALL BE IDENTIFIED IN PULL BOXES, PANEL BOARDS AND CONTRACTORS. IDENTIFICATION SHALL MATCH PANEL BOARD SCHEDULE.
17. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE COORDINATION OF THE WORK, ANY OMISSIONS OR CONFLICT IN THE WORKING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION AND COMPLETION OF THE DESCRIBED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
18. TWO WEEKS AFTER JOB COMPLETION, THE CONTRACTOR SHALL PERFORM ONE NIGHT CHECK OF LIGHTS WITH ENGINEER. REPAIR OR REPLACE NON-FUNCTIONING LUMINARIES AND NOTIFY THE CITY.
19. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PREVENT OBJECTIONABLE BLOWING OR DRIFTING OF DIRT, SOIL, OR OTHER DEBRIS DURING EXCAVATION AND INSTALLATION OF ELECTRICAL CONDUIT.
20. THE CONTRACTOR SHALL LEAVE THE SITE CLEAN AND ORDERLY AT THE END OF EACH WORKDAY
21. ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE NOTED.
22. CONTRACTOR TO SUBMIT SHOP DRAWINGS & CATALOG NUMBERS FOR ALL NEW MATERIAL FOR APPROVAL BY THE ELECTRICAL CONSULTANT PRIOR TO CONSTRUCTION.
23. EVERY ATTEMPT SHALL BE MADE TO PROTECT ALL EQUIPMENT & MATERIAL FROM ANY DAMAGE DURING TRANSPORTATION, LOADING, UNLOADING, AND INSTALLATION AT THE SITE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOST, STOLEN OR DAMAGED EQUIPMENT OR MATERIAL.
25. ALL EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL BE NEMA TYPE 4X UNLESS NOTED OTHERWISE.
26. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED TO MATCH THE EXISTING (EX. ZOYSIA, ST. AUGUSTINE).
27. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

28. THE CONTRACTOR SHALL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
29. ALL EXCESS MATERIAL IS TO BE REMOVED AND DISPOSED BY THE CONTRACTOR WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION PROJECT LIMITS. CONTRACTOR SHALL INCUR ALL COSTS FOR DISPOSAL.
30. DISPOSAL OF ALL MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
31. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
32. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH BIDS WILL BE BASED.
33. OPERATING INSTRUCTIONS: UPON COMPLETION OF ALL WORK AND OF ALL TESTS, FURNISH THE NECESSARY SKILLED LABOR AND HELPERS, FOR OPERATING ALL ELECTRICAL SYSTEMS AND EQUIPMENT IN ORDER TO INSTRUCT AND TRAIN THE OWNERS' REPRESENTATIVES IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.
34. OPERATION AND MAINTENANCE MANUALS: WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE TO THE OWNER, OPERATION AND MAINTENANCE MANUALS CONTAINING SUBMITTAL DATA STATING EQUIPMENT RATING, SELECTED OPTIONS AND REQUIRED MAINTENANCE ACTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE THE CONTRACTOR SHALL ALSO PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
35. RECORD DRAWINGS: THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT DRAWINGS, WHICH SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THEY SHALL INCLUDE A ACTUAL CONDUIT RUNS, PULL BOX LOCATIONS, AND ANY AND ALL EQUIPMENT THAT IS PROVIDED AND INSTALLED AS PART OF THIS PROJECT INDICATING AN ACCURATE DEPICTION OF ALL INSTALLED ELECTRICAL EQUIPMENT.
36. BRANCH CIRCUIT VOLTAGE DROP: CONTRACTOR TO VERIFY THAT THE VOLTAGE DROP FOR ALL THE BRANCH CIRCUITS DOES NOT EXCEED 3% OF THE HOMERUN CIRCUITS ORIGINAL VOLTAGE AND TO INCREASE THE WIRE SIZE AS NECESSARY TO ADJUST FOR THE VOLTAGE DROP.
37. UNGROUNDED CONDUCTORS SHALL USE BLACK INSULATION, NEUTRAL CONDUCTORS SHALL USE WHITE INSULATION, & GROUNDING CONDUCTORS SHALL USE GREEN INSULATION.
38. ALL EXPOSED OR SURFACE MOUNTED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT.
39. ALL CONDUIT THAT WILL REMAIN EMPTY AS SPARES SHALL BE MANDREL TESTED, CLEANED INSIDE AND BOTH ENDS CAPPED. LEAVE CORROSION RESISTANT, PULL/DRAW WIRE AND PLACE DUCT MARKERS, OR PULLBOXES TO MARK THE LOCATION OF THE ENDS OF THE CONDUIT.
40. PULL BOXES SHALL BE LOCATED AT ENDS OF CONDUIT CROSSING ROADWAYS, AND AS NECESSARY FOR THE COMPLETION OF THE PROJECT. INSTALL WITH A 12" BED OF PEAROCK OR CRUSHED STONE FOR DRAINAGE.
41. THESE PLANS REPRESENT MINIMUM ACCEPTABLE CRITERIA. THE INSPECTION PER THESE DRAWINGS REPRESENT THE MINIMUM BASE ACCEPTANCE.
42. TRAIL TO REMAIN ACCESSIBLE TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. PROVIDE A MINIMUM OF 4FT OF UNOBSTRUCTED PATH AROUND WORK ZONES. IF 4FT OF UNOBSTRUCTED PATH CANNOT BE MAINTAINED, PROVIDE TEMPORARY PATH AROUND WORKZONE OR PROVIDE PEDESTRIAN DETOURS AS REQUIRED.
43. THE FILL MATERIALS WITHIN THE CANAL RIGHT-OF-WAY SHOULD CONSIST OF THE LIMEROCK BASE FILL MATERIAL THAT IS FREE OF CONTAMINANTS AND MEETS THE CLEAN FILL CRITERIA DEFINITION PURSUANT TO CHAPTER 24-5 OF THE CODE OF MIAMI-DADE COUNTY. THE LIMEROCK BASE FILL MATERIAL ALSO SHOULD MEET THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS, DATED FY 2025-26 OR THE CURRENT AVAILABLE STANDARD SPECIFICATIONS AT THE TIME OF CONSTRUCTION, SECTIONS 911-1 THROUGH 911-2.3, AND 911-3.1 THROUGH 911-3.4.

REVISIONS		<div></div>	<div>JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178</div>	<div>CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS</div>	<div></div>	<div>GENERAL NOTES</div>	SHEET NO.
DATE	DESCRIPTION						L-4





SPECIAL NOTES

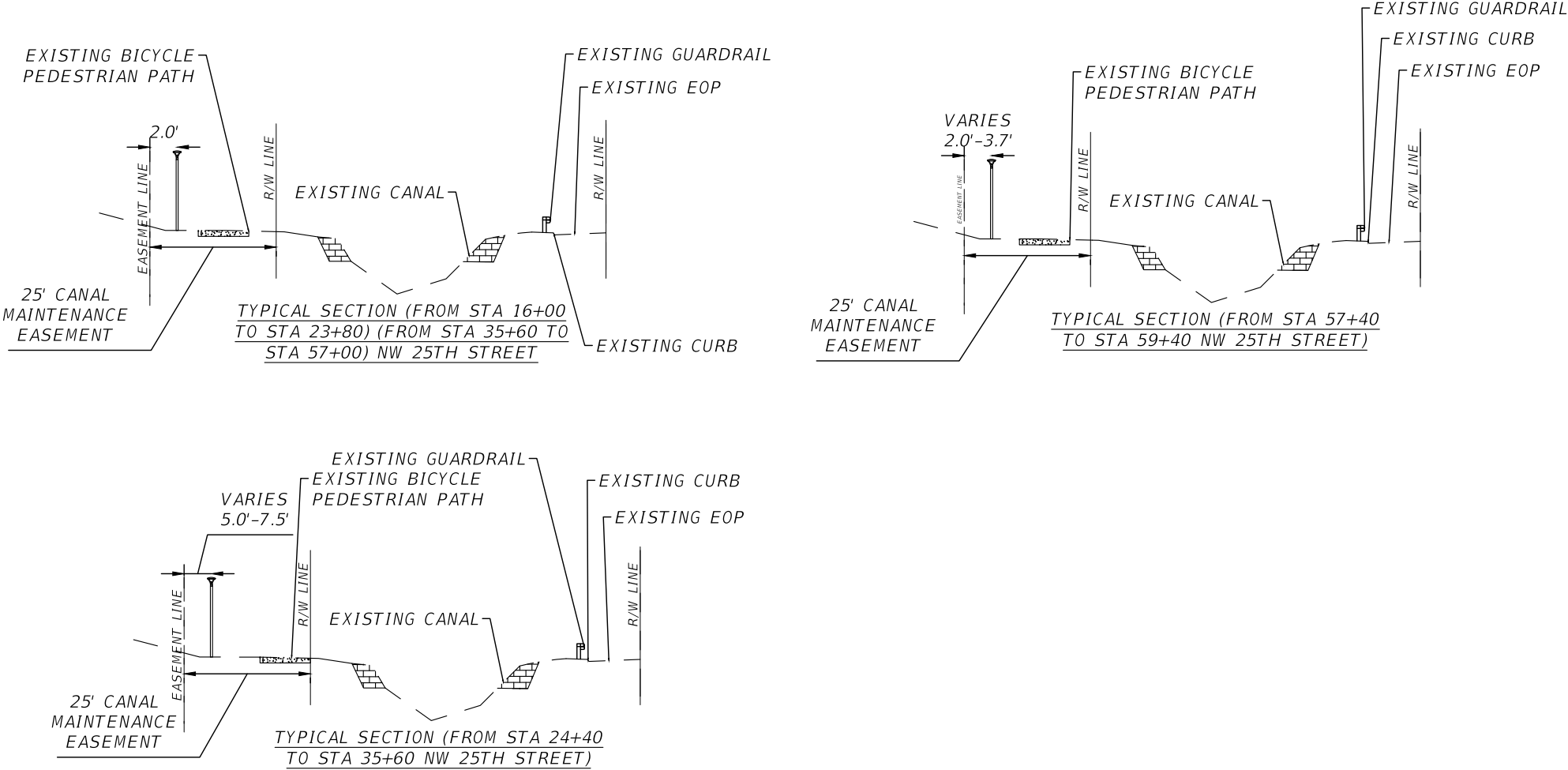
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UNDERGROUND AND ABOVE GROUND IMPROVEMENTS SUCH AS CONDUITS, GAS MAINS, SANITARY SEWER LINES, TV CABLE, TELEPHONE, LATERALS, WATER MAINS, POLES, PIPES, CABLES AND OTHER STRUCTURES FROM INJURY, AND IN CASE OF DAMAGE THEY SHALL BE RESTORED WITHOUT COMPENSATION.
3. HAND-DIG WHERE THERE IS ANY CONFLICT WITH THE EXISTING UNDERGROUND UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES FOR LOCATION OF THEIR EXISTING FACILITIES. IT'S THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE UTILITIES FOR THE EXACT DEPTH. CONTACT "SUNSHINE"AT 811 PRIOR TO DIGGING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE CONTRACTOR'S OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THEIR EXISTING FACILITIES CONFLICT WITH THE CONSTRUCTION.
6. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO "SUNSHINE".
7. CONTRACTOR TO USE CAUTION WHEN WORKING UNDER AND IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITIES. PROVIDE A LETTER FROM FPL APPROVING METHOD OF LIGHT POLE INSTALLATION. CONTACT JESSICA SALAZAR AT JESSICA.SALAZAR@FPL.COM PRIOR TO CONSTRUCTION.
8. LIGHT POLE USED AS BASIS OF DESIGN IS HAPCO'S ROUND TAPERED ALUMINUM (RTA) POLE, OR APPROVED EQUAL. POLES SHALL BE DIRECT BURIED AS PER MANUFACTURER'S RECOMMENDATION AND DESIGNED FOR A WIND SPEED ACCORDING TO THE 2020 FLORIDA BUILDING CODE.
9. CONTRACTOR IS TO REMOVE ALL SHRUBS/BUSHES WITHIN A 4 FT RADIUS OF ALL LIGHT POLE LOCATIONS TO ALLOW ADEQUATE SPACE FOR ACCESS AND MAINTENANCE. TRIM TREE BRANCHES WITHIN 2 FT RADIUS OF ALL LIGHT POLE LOCATIONS. VERIFY OWNERSHIP AND COORDINATE REMOVAL AND TRIMMING OF BUSHES, SHRUBS, AND TREES WITH OWNER. REPLACE ANY REMOVED TREES, BUSHES, AND SHRUBS IN KIND.



GUARANTEE

THE CONTRACTOR SHALL SUBMIT A WRITTEN GUARANTEE COVERING ALL MATERIALS, WORKMANSHIP, AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR COMMENCING FROM THE DAY OF FINAL ACCEPTANCE. ANY REPAIRS DUE TO DEFECTIVE WORKMANSHIP OR MATERIALS DURING THE ONE-YEAR PERIOD SHALL BE MADE BY THE CONTRACTOR WITHOUT CHARGE TO THE CITY.





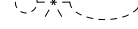





REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION						L-5





REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION						L-6





SYMBOLS	LEGEND DESCRIPTION
	POST TOP LIGHT POLE WITH 54W LED LUMINAIRE DESIGNED FOR 5,983 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT_LED_P3_40K_PATH_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.
	POST TOP LIGHT POLE WITH 86W LED LUMINAIRE DESIGNED FOR 9,209 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT_LED_P4_40K_PATH_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.
	EXISTING POLE LIGHT TO REMAIN
	EXISTING SOLAR POWERED LIGHT POLE TO BE REMOVED AND DISPOSED.
	EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED AND DISPOSED.
	PROPOSED LOAD CENTER
	EXISTING LOAD CENTER
	2" SCHEDULE 40 PVC CONDUIT, DIRECT BURIED IN OPEN TRENCH, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.
	2" HDPE CONDUIT INSTALLED BY DIRECTIONAL BORE, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.
	PULL BOX

NOTES:  
1. COORDINATE LIGHT POLE AND LUMINAIRE COLORS WITH THE CITY OF DORAL PRIOR TO PROCUREMENT.

SIDEWALKS AND SHARED USE PATH  
LIGHTING CRITERIA  
(BEACON TRAIL)

AVERAGE INITIAL INTENSITY	2.5 FOOT CANDLES
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
UNIFORMITY RATIO MAX./MIN.	10:1 OR LESS
WIND SPEED	160 MPH

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LEGEND	SHEET NO.
DATE	DESCRIPTION						L-7




Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City Item
P-1	859072.271	532447.379	NW 25TH ST	16+04.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-2	859132.27	532447.771	NW 25TH ST	16+64.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-3	859192.269	532448.163	NW 25TH ST	17+24.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-4	859252.267	532448.555	NW 25TH ST	17+84.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-5	859312.266	532448.946	NW 25TH ST	18+44.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-6	859372.265	532449.338	NW 25TH ST	19+04.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-7	859432.264	532449.73	NW 25TH ST	19+64.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-8	859492.262	532450.122	NW 25TH ST	20+24.75	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-9	859552.261	532450.514	NW 25TH ST	20+84.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-10	859612.26	532450.905	NW 25TH ST	21+44.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-11	859672.259	532451.297	NW 25TH ST	22+04.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-12	859732.257	532451.689	NW 25TH ST	22+64.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-13	859792.256	532452.081	NW 25TH ST	23+24.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-14	859852.255	532452.473	NW 25TH ST	23+84.75	38.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-15	859912.25	532447.694	NW 25TH ST	24+44.71	33.65' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-16	859967.248	532448.085	NW 25TH ST	24+99.71	33.68' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-17	860029.459	532448.273	NW 25TH ST	25+61.92	33.46' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-18	860095.458	532448.711	NW 25TH ST	26+27.92	33.47' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	2	Doral	715-516-110
P-19	860161.448	532451.424	NW 25TH ST	26+93.93	35.76' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-20	860227.447	532451.862	NW 25TH ST	27+59.93	35.76' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-21	860293.445	532452.3	NW 25TH ST	28+25.93	35.77' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-22	860359.444	532452.737	NW 25TH ST	28+91.93	35.78' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-23	860415.443	532453.175	NW 25TH ST	29+47.93	35.85' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-24	860476.441	532453.613	NW 25TH ST	30+08.93	35.89' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-25	860537.44	532454.051	NW 25TH ST	30+69.93	35.93' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-26	860613.438	532454.489	NW 25TH ST	31+45.93	35.87' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-27	860689.437	532454.927	NW 25TH ST	32+21.93	35.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-28	860755.435	532455.364	NW 25TH ST	32+87.93	35.82' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-29	860821.434	532455.802	NW 25TH ST	33+53.93	35.83' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-30	860887.432	532456.24	NW 25TH ST	34+19.93	35.84' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-31	860953.431	532456.69	NW 25TH ST	34+85.93	35.86' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-32	861019.429	532457.146	NW 25TH ST	35+51.93	35.89' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-33	861180.081	532461.374	NW 25TH ST	37+12.61	39.06' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-34	861250.079	532461.816	NW 25TH ST	37+82.61	39.03' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	2	Doral	715-516-110
P-35	861320.078	532462.257	NW 25TH ST	38+52.61	39.01' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-36	861390.076	532462.699	NW 25TH ST	39+22.61	38.98' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-37	861460.075	532463.14	NW 25TH ST	39+92.61	38.96' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-38	861530.074	532463.582	NW 25TH ST	40+62.61	38.94' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-39	861600.072	532464.023	NW 25TH ST	41+32.61	38.91' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-40	861670.071	532464.465	NW 25TH ST	42+02.61	38.89' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-41	861740.069	532464.906	NW 25TH ST	42+72.61	38.86' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-42	861810.068	532465.348	NW 25TH ST	43+42.61	38.84' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-43	861880.067	532465.789	NW 25TH ST	44+12.61	38.81' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-44	861950.065	532466.231	NW 25TH ST	44+82.61	38.79' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-45	862020.064	532466.673	NW 25TH ST	45+52.61	38.77' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-46	862090.063	532467.114	NW 25TH ST	46+22.61	38.74' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-47	862160.061	532467.556	NW 25TH ST	46+92.61	38.72' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-48	862230.06	532467.997	NW 25TH ST	47+62.61	38.69' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-49	862300.058	532468.439	NW 25TH ST	48+32.61	38.67' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-50	862370.057	532468.88	NW 25TH ST	49+02.61	38.65' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110

REVISIONS


DATE

DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



POLE DATA

SHEET NO.

L-8

Hernandez, Kevin

4/8/2025 9:53:54 AM

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Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City Item
P-51	862440.056	532469.322	NW 25TH ST	49+72.61	38.62' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-52	862510.054	532469.763	NW 25TH ST	50+42.61	38.60' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-53	862580.053	532470.205	NW 25TH ST	51+12.61	38.57' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-54	862650.051	532470.655	NW 25TH ST	51+82.61	38.56' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-55	862720.05	532471.161	NW 25TH ST	52+52.61	38.60' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-56	862790.048	532471.668	NW 25TH ST	53+22.61	38.64' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-57	862860.046	532472.174	NW 25TH ST	53+92.61	38.68' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-58	862930.044	532472.681	NW 25TH ST	54+62.61	38.72' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-59	863005.042	532473.187	NW 25TH ST	55+37.61	38.73' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-60	863077.54	532473.693	NW 25TH ST	56+10.11	38.75' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-61	863152.539	532474.2	NW 25TH ST	56+85.11	38.76' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	A	3	Doral	715-516-110
P-62	863222.28	532472.498	NW 25TH ST	57+54.84	36.59' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	3	Doral	715-516-110
P-63	863285.164	532473.608	NW 25TH ST	58+17.73	37.29' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	3	Doral	715-516-110
P-64	863350.033	532475.719	NW 25TH ST	58+82.61	38.96' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	3	Doral	715-516-110
P-65	863392.664	532476.108	NW 25TH ST	59+25.24	39.07' LT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	A	3	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



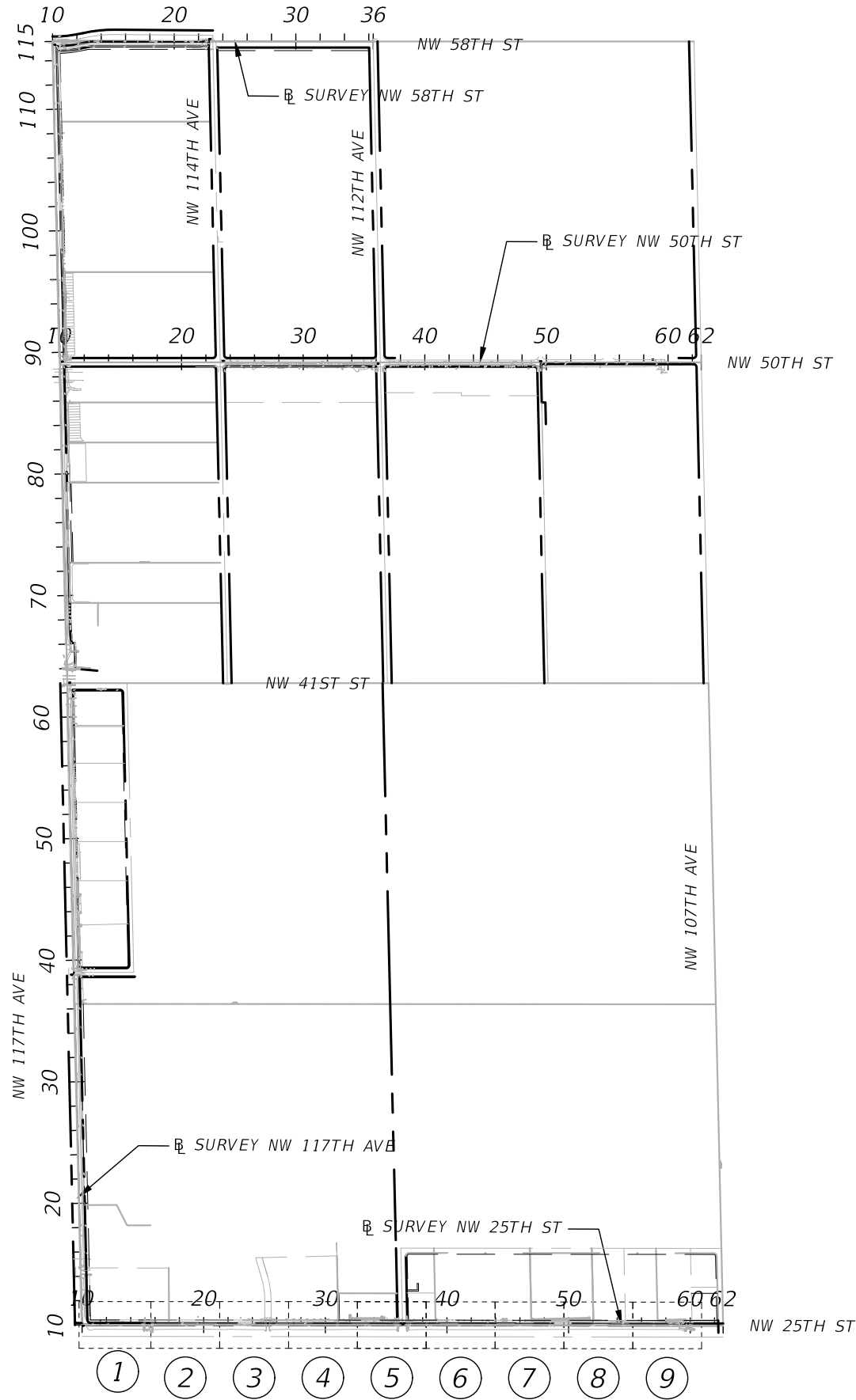
POLE DATA



SHEET NO.

L-9

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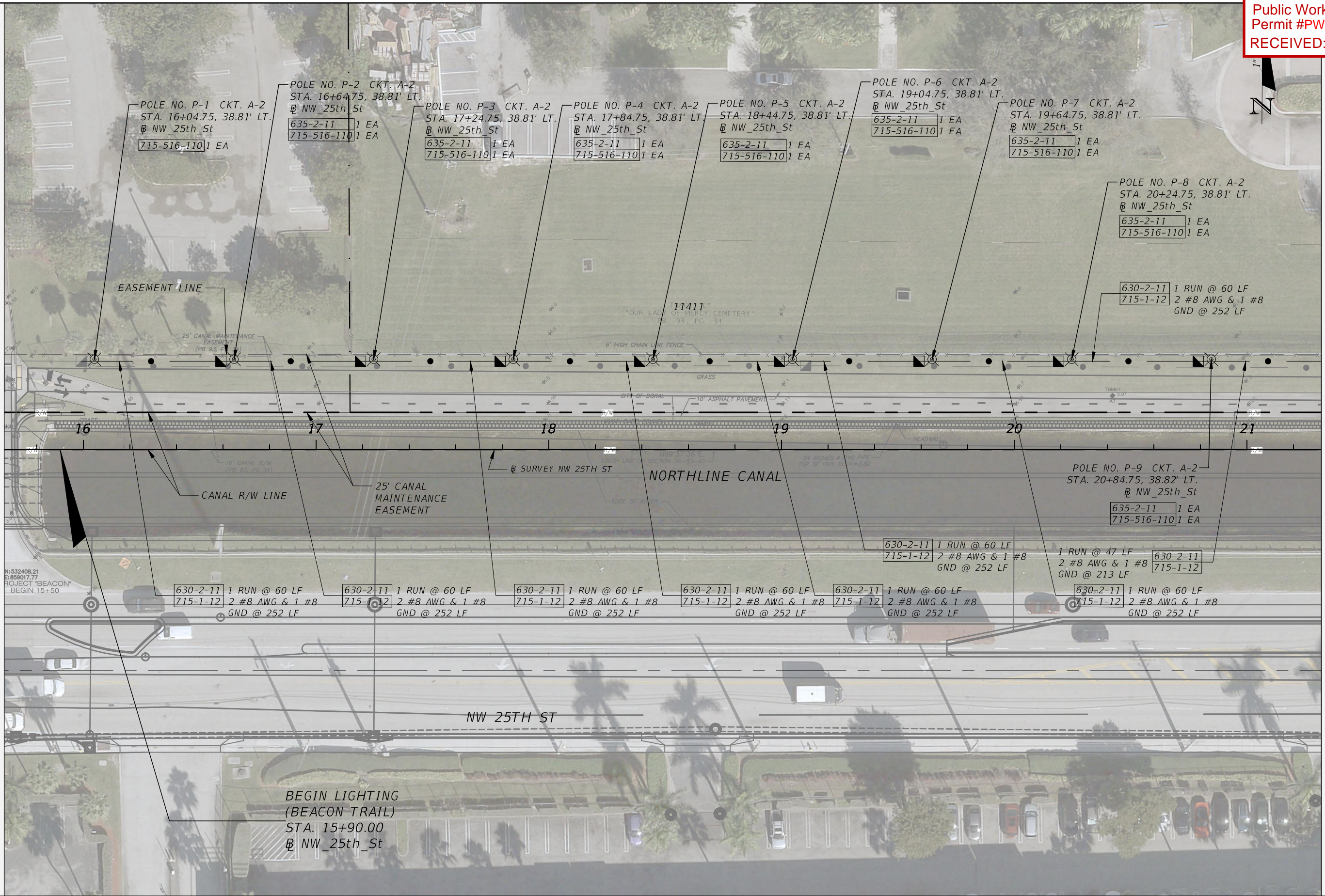




REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION						L-10



MATCHLINE STA. - 15+66.00

MATCHLINE STA. - 21+32.00



REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (1)	SHEET NO.
DATE	DESCRIPTION						
							L-11

Hernandez, Kevin

4/8/2025 9:54:48 AM

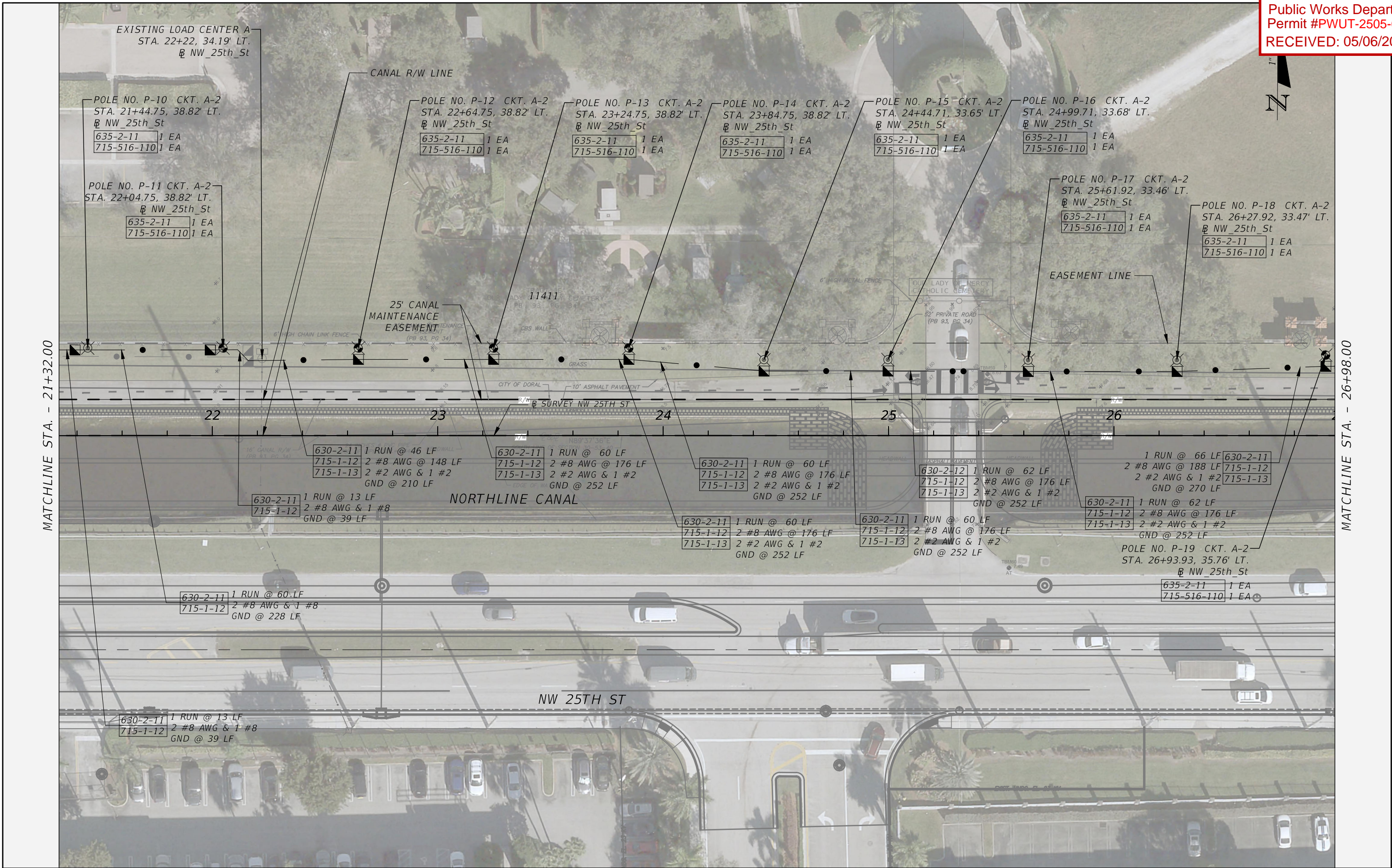
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. - 21+32.00

MATCHLINE STA. - 26+98.00



REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

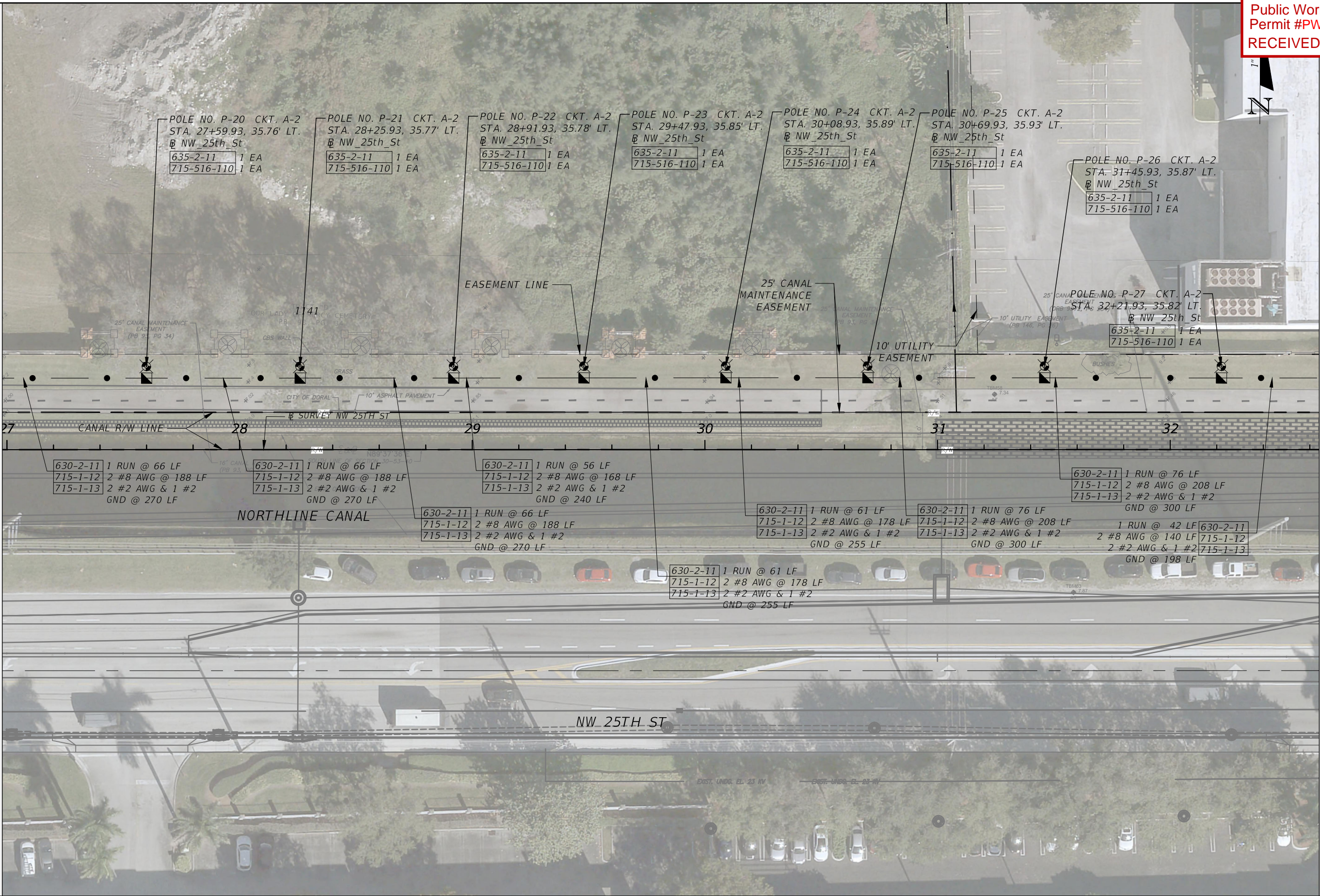


LIGHTING PLAN (2)

SHEET NO.  
L-12



MATCHLINE STA. - 26+98.00



MATCHLINE STA. - 32+64.00

REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
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CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



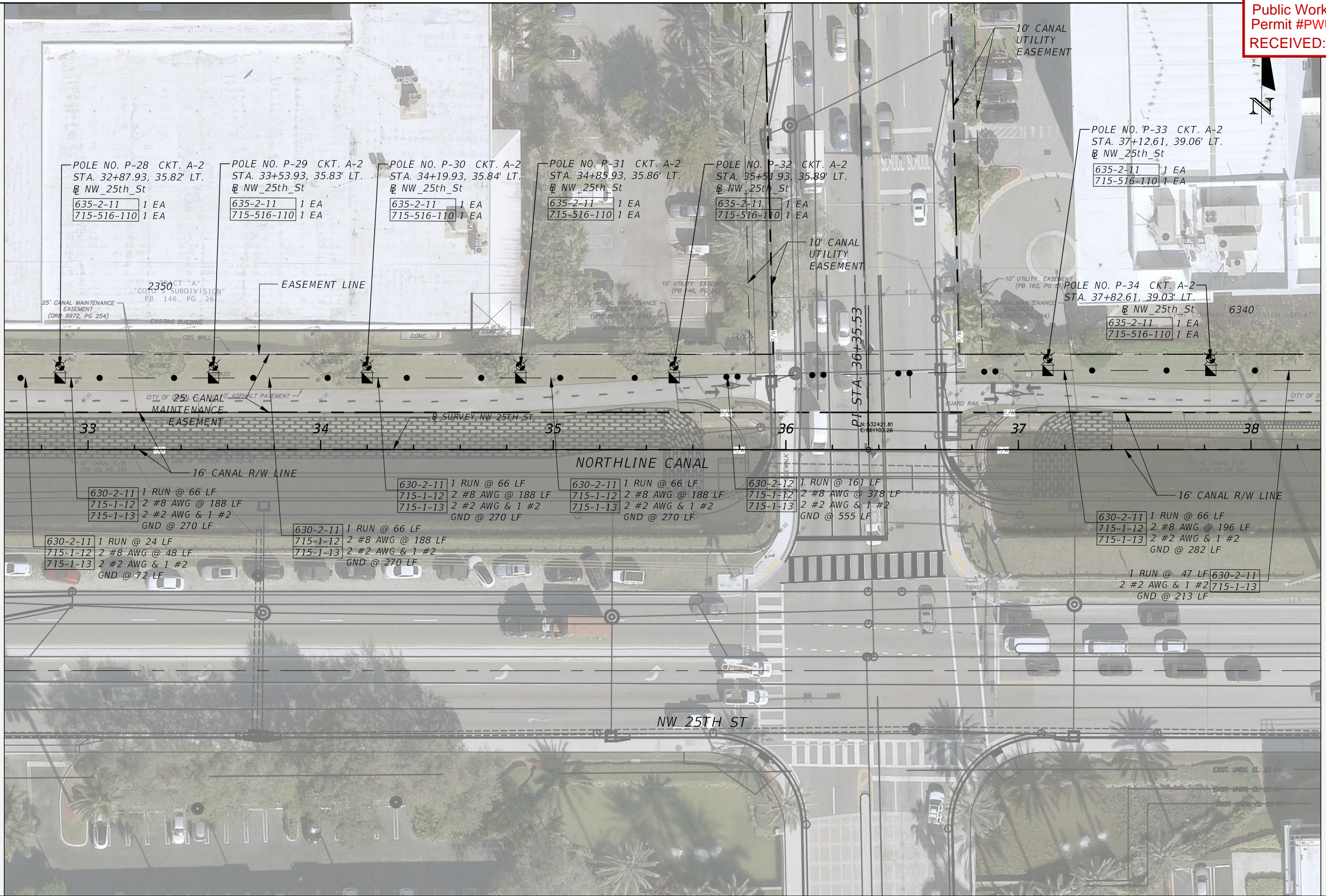
LIGHTING PLAN (3)

SHEET NO.
L-13



MATCHLINE STA. - 32+64.00

MATCHLINE STA. - 38+30.00



REVISIONS	
DATE	DESCRIPTION



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CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



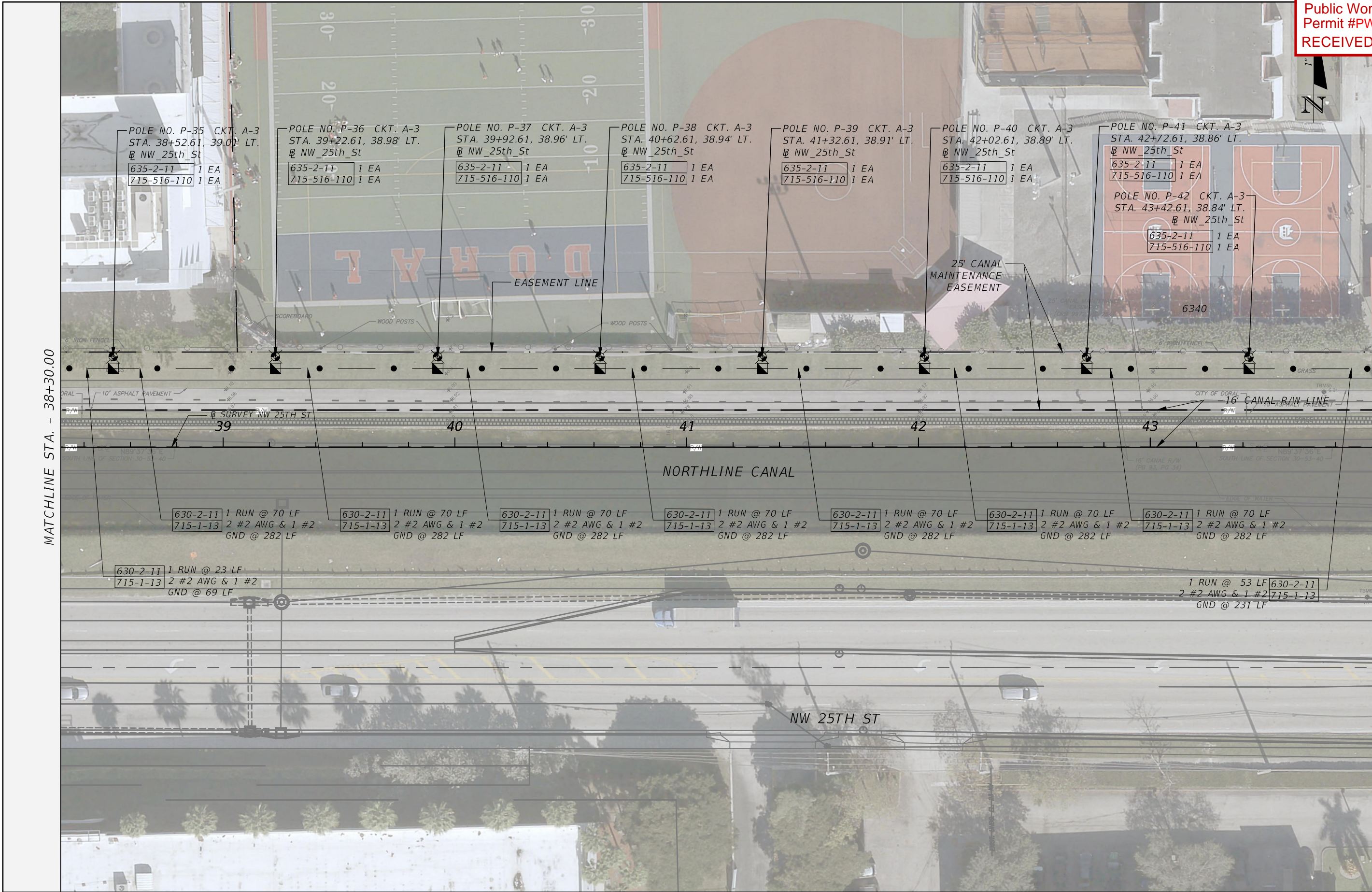
LIGHTING PLAN (4)

SHEET  
NO.  
  
L-14



MATCHLINE STA. - 38+30.00

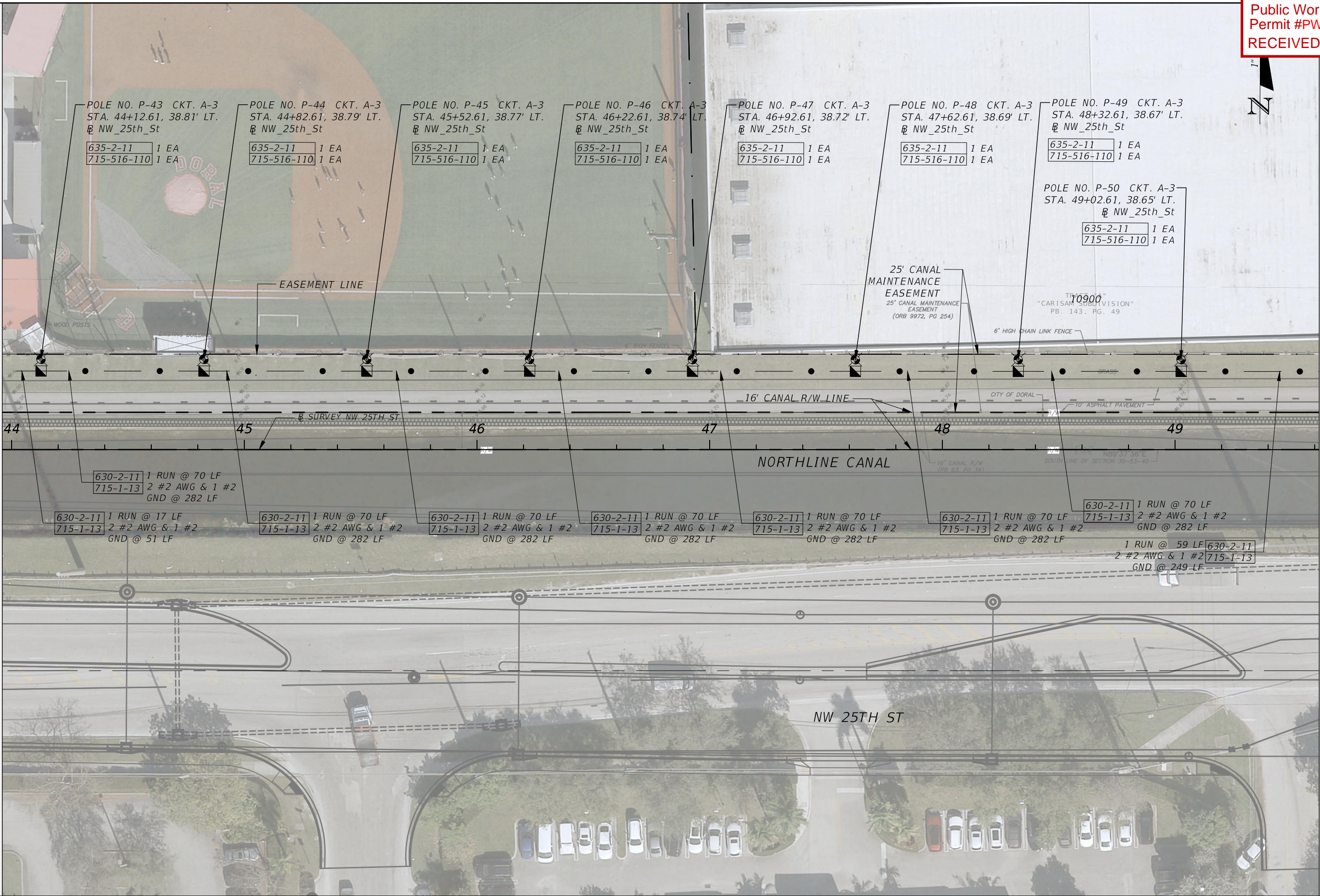
MATCHLINE STA. - 43+96.00



REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (5)	SHEET NO.
DATE	DESCRIPTION						
							L-15



MATCHLINE STA. - 43+96.00



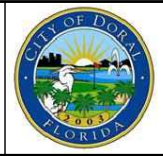
MATCHLINE STA. - 49+62.00

REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
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H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS





LIGHTING PLAN (6)

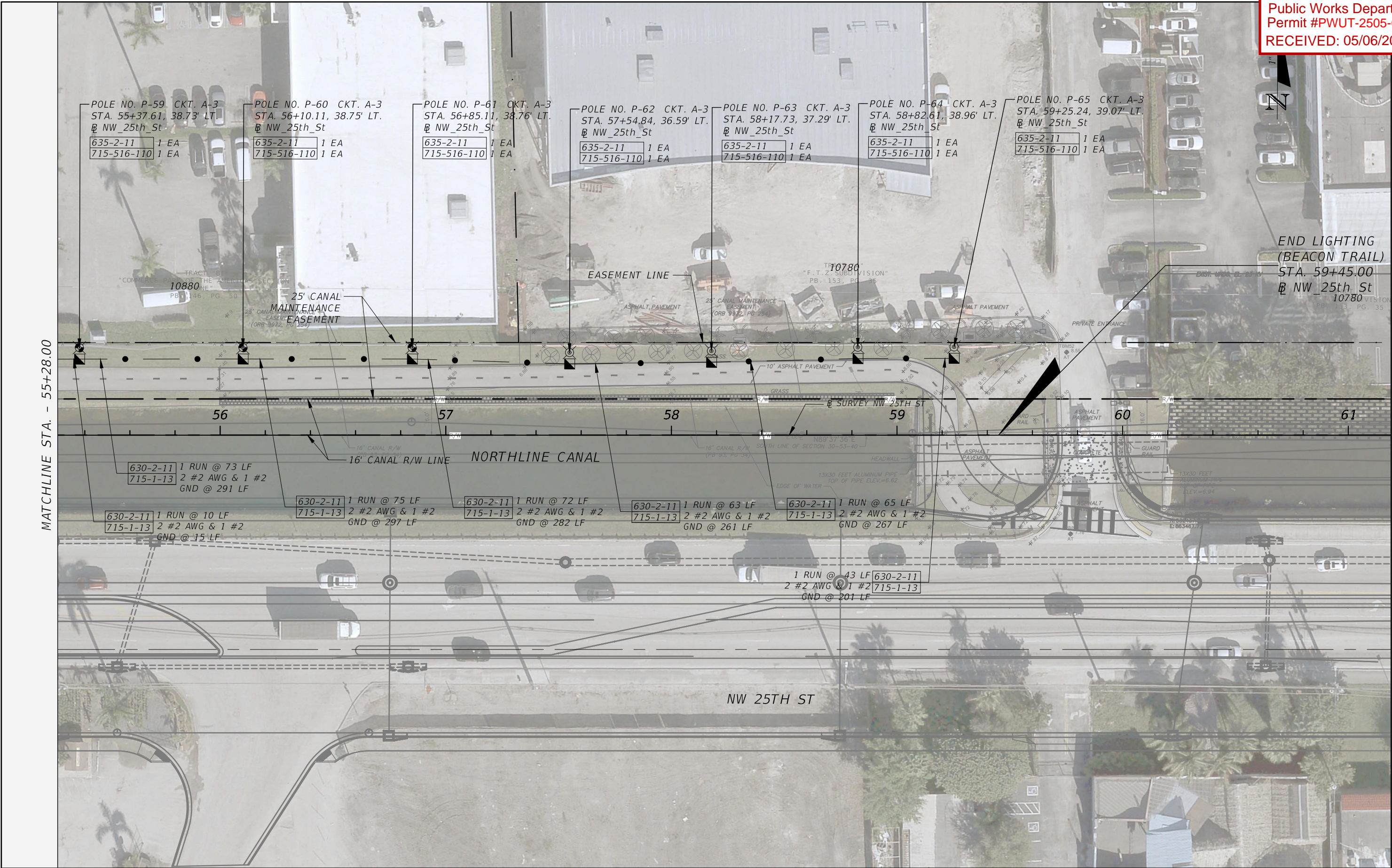
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L-16







REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (7)	SHEET NO.
DATE	DESCRIPTION						
							L-17

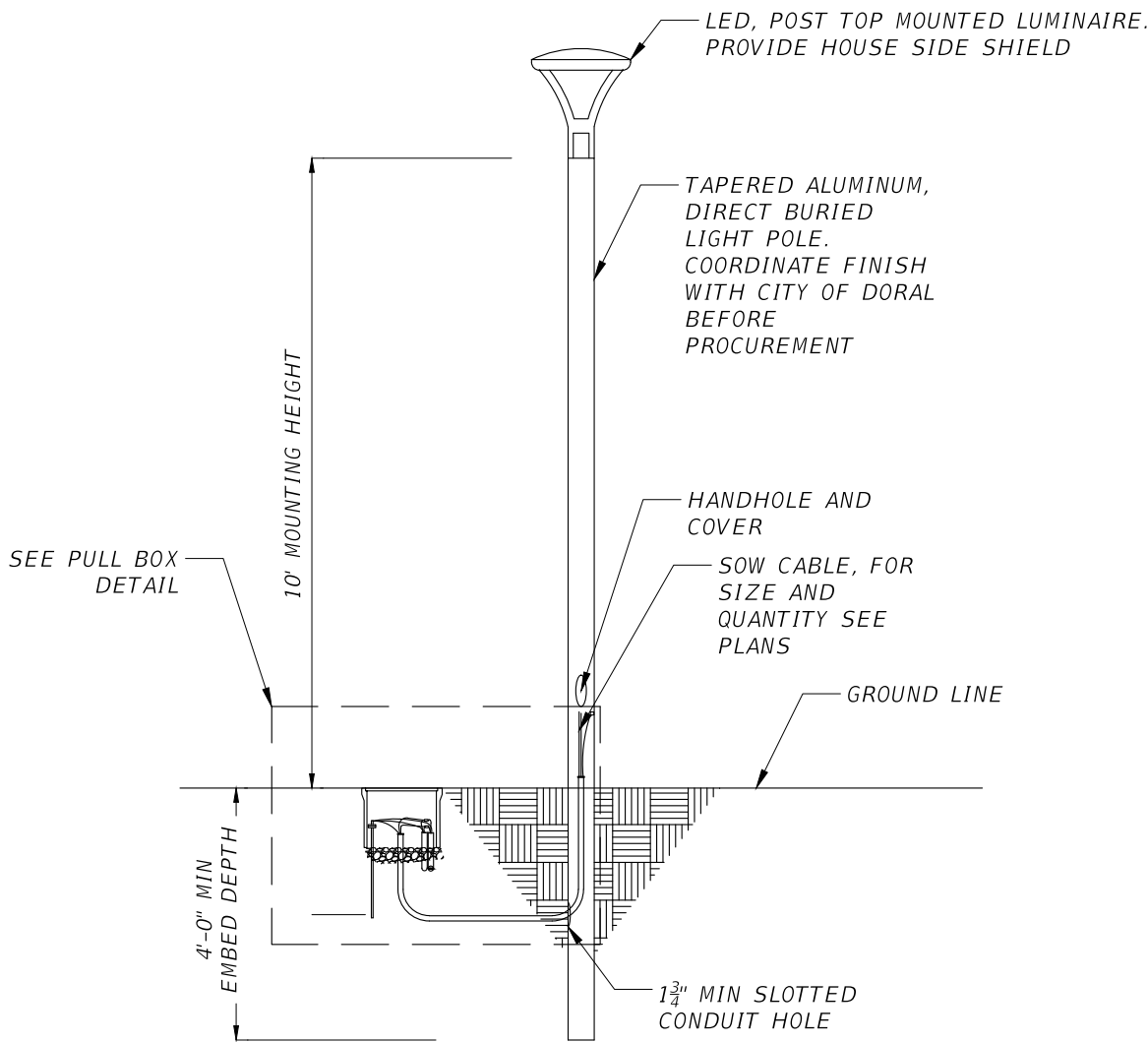




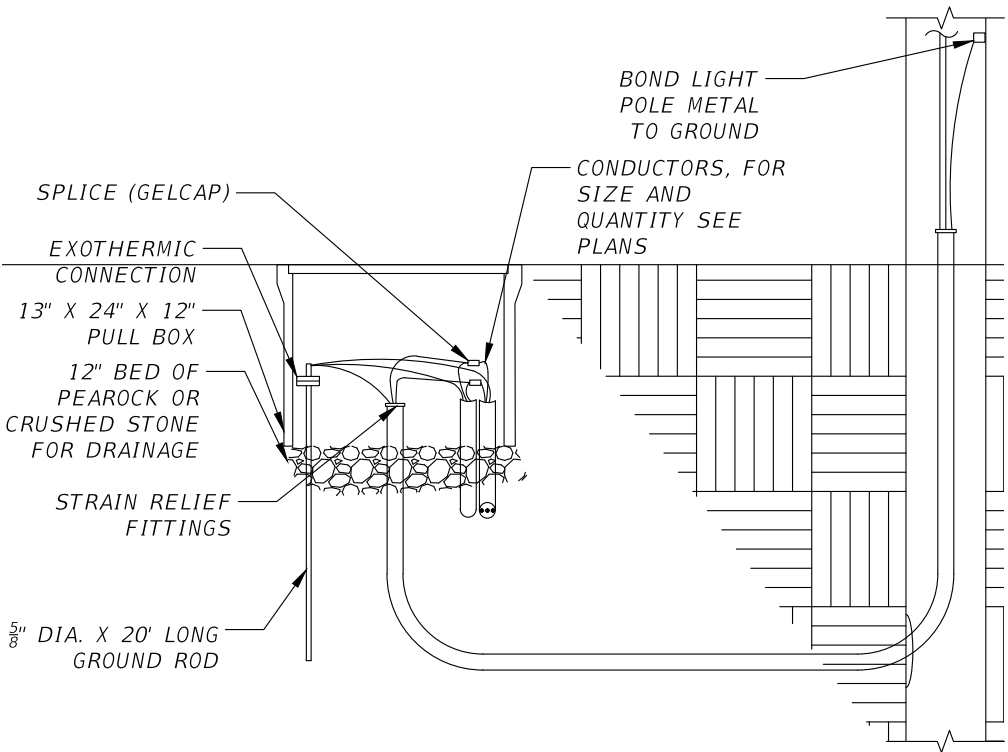
REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (8)	SHEET NO.
DATE	DESCRIPTION						L-18

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LIGHT POLE DETAIL



PULL BOX DETAIL

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHT POLE DETAIL	SHEET NO.
DATE	DESCRIPTION						
							L-19



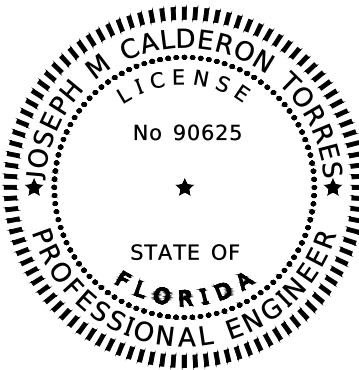
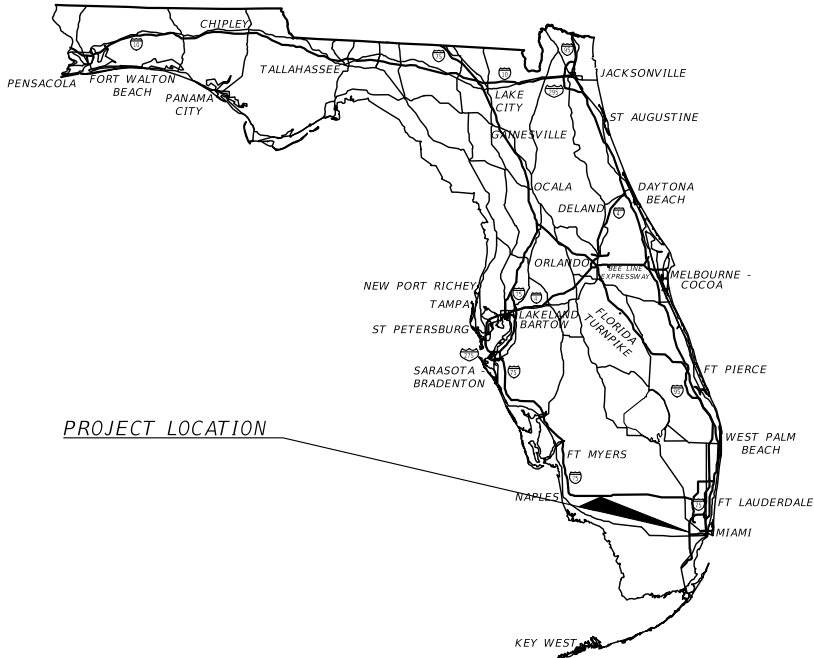
INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEYSHEET
L-2	TABULATION OF QUANTITIES
L-3 - L-4	GENERAL NOTES
L-5	TYPICAL SECTIONS
L-6	LEGEND
L-7	POLE DATA
L-8	PROJECT LAYOUT
L-9 - L-15	LIGHTING PLAN
L-16	LIGHT POLE DETAIL

CITY OF DORAL, FLORIDA

TRAIL LIGHTING  
IMPROVEMENT PLANS

DRESSEL'S DAIRY TRAIL ALONG NW 58TH ST  
FROM NW 117TH AVE TO NW 114TH AVE



THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY

Joseph M Calderon Torres  
2025.04.08 14:54:06-04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES

LIGHTING PLANS  
ENGINEER OF RECORD:

JOSEPH M. CALDERON TORRES II, P.E.  
P.E. NO.: 90625  
H.W. LOCHNER, INC  
8750 N.W. 36TH STREET, SUITE 360  
MIAMI, FLORIDA 33178  
TEL: (305) 503-9873; FAX: (305) 503-9882  
VENDOR NO.: VF-362-338-11

PERMIT SUBMITTAL

GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY2025-26 Standard plans for  
Road and Bridge Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are available  
at the following website:  
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures  
Plans Component.

GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, FY 2025-26 Standard  
Specifications for Road and Bridge Construction at the following  
website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SHEET  
NO.

L-1



*SHEET NUMBERS*

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GENERAL NOTES

1. CONTRACTOR TO FURNISH AND INSTALL THE ELECTRICAL SYSTEM AS DEPICTED ON ELECTRICAL DRAWINGS.
2. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA-70, 2020, FLORIDA BUILDING CODE, EIGHTH EDITION 2023, NFPA-101 2021, LOCAL CODES, AND OTHER APPLICABLE JURISDICTION CODES.
4. THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, AND APPROVALS. ALL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN.
5. THE CONTRACTOR TO COORDINATE THE WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL DETERMINE THE SERVICE REQUIRED DATE FOR THE POWER COMPANY CONFERENCE.
7. GROUNDING TO BE INSTALLED TO MEET NEC. ARTICLE 250 REQUIREMENTS. A GROUNDING SYSTEM SHALL NOT EXCEED A 48-HOUR DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS.
8. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FURNISHED, AND UL LISTED.
9. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. ALL ABOVE GRADE CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT.
10. ELECTRICAL WARNING TAPE SHALL BE PLACED 12 INCHES DEEP ON TOP OF ALL UNDERGROUND TRENCHES.
11. ALL TRENCHES SHALL BE FILLED WITH COMPACTED EXISTING CLEAN BACKFILL (98% AASHTO T-99) AND COMPACTED UTILIZING COMPACTION MACHINE AT DEPTH OF NOT MORE THAN 6 INCH LAYERS.
12. ALL UNDERGROUND ELECTRICAL CONDUITS SHALL BE A MINIMUM OF 24 INCHES DEEP TO TOP OF BRANCH CIRCUIT CONDUIT AND 36 INCHES DEEP TO THE TOP OF FEEDER CONDUIT FROM FPL TRANSFORMER, UNLESS NOTED OTHERWISE.
13. INSTALL PULL BOXES AS NECESSARY TO ACCOMMODATE LONG CABLE PULLS. INSTALL DUCT SEALS AT END OF CONDUITS THAT ENTER PULL BOXES, AND JUNCTION BOXES. LEAVE A MINIMUM OF 6 INCH SPACE BETWEEN WIRES AND PULL BOX COVERS.
14. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. TRENCHING SHALL BE COORDINATED WITH OTHER TRADES SUCH AS LANDSCAPING, AND OTHER UNDERGROUND UTILITIES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATION. ADDITIONALLY, MAINTAIN ENOUGH DISTANCE FROM EXISTING TREES AND LANDSCAPE AREAS SUCH THAT MINIMUM DAMAGE IS DONE TO EXISTING ROOTS.
15. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
16. TYPE WRITTEN PANEL SCHEDULE SHALL BE INSTALLED IN THE PANEL BOARDS. ALL CIRCUITS SHALL BE IDENTIFIED IN PULL BOXES, PANEL BOARDS AND CONTRACTORS. IDENTIFICATION SHALL MATCH PANEL BOARD SCHEDULE.
17. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND THE COORDINATION OF THE WORK, ANY OMISSIONS OR CONFLICT IN THE WORKING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION AND COMPLETION OF THE DESCRIBED WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
18. TWO WEEKS AFTER JOB COMPLETION, THE CONTRACTOR SHALL PERFORM ONE NIGHT CHECK OF LIGHTS WITH ENGINEER. REPAIR OR REPLACE NON-FUNCTIONING LUMINARIES AND NOTIFY THE CITY.
19. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PREVENT OBJECTIONABLE BLOWING OR DRIFTING OF DIRT, SOIL, OR OTHER DEBRIS DURING EXCAVATION AND INSTALLATION OF ELECTRICAL CONDUIT.
20. THE CONTRACTOR SHALL LEAVE THE SITE CLEAN AND ORDERLY AT THE END OF EACH WORKDAY
21. ALL MATERIALS AND EQUIPMENT SHALL BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE NOTED.
22. CONTRACTOR TO SUBMIT SHOP DRAWINGS & CATALOG NUMBERS FOR ALL NEW MATERIAL FOR APPROVAL BY THE ELECTRICAL CONSULTANT PRIOR TO CONSTRUCTION.
23. EVERY ATTEMPT SHALL BE MADE TO PROTECT ALL EQUIPMENT & MATERIAL FROM ANY DAMAGE DURING TRANSPORTATION, LOADING, UNLOADING, AND INSTALLATION AT THE SITE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOST, STOLEN OR DAMAGED EQUIPMENT OR MATERIAL.
25. ALL EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL BE NEMA TYPE 4X UNLESS NOTED OTHERWISE.
26. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED TO MATCH THE EXISTING (EX. ZOYSIA, ST. AUGUSTINE).
27. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

28. THE CONTRACTOR SHALL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
29. ALL EXCESS MATERIAL IS TO BE REMOVED AND DISPOSED BY THE CONTRACTOR WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION PROJECT LIMITS. CONTRACTOR SHALL INCUR ALL COSTS FOR DISPOSAL.
30. DISPOSAL OF ALL MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
31. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
32. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH BIDS WILL BE BASED.
33. OPERATING INSTRUCTIONS: UPON COMPLETION OF ALL WORK AND OF ALL TESTS, FURNISH THE NECESSARY SKILLED LABOR AND HELPERS, FOR OPERATING ALL ELECTRICAL SYSTEMS AND EQUIPMENT IN ORDER TO INSTRUCT AND TRAIN THE OWNERS' REPRESENTATIVES IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.
34. OPERATION AND MAINTENANCE MANUALS: WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE TO THE OWNER, OPERATION AND MAINTENANCE MANUALS CONTAINING SUBMITTAL DATA STATING EQUIPMENT RATING, SELECTED OPTIONS AND REQUIRED MAINTENANCE ACTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE THE CONTRACTOR SHALL ALSO PROVIDE THE NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
35. RECORD DRAWINGS: THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT DRAWINGS, WHICH SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THEY SHALL INCLUDE A ACTUAL CONDUIT RUNS, PULL BOX LOCATIONS, AND ANY AND ALL EQUIPMENT THAT IS PROVIDED AND INSTALLED AS PART OF THIS PROJECT INDICATING AN ACCURATE DEPICTION OF ALL INSTALLED ELECTRICAL EQUIPMENT.
36. BRANCH CIRCUIT VOLTAGE DROP: CONTRACTOR TO VERIFY THAT THE VOLTAGE DROP FOR ALL THE BRANCH CIRCUITS DOES NOT EXCEED 3% OF THE HOMERUN CIRCUITS ORIGINAL VOLTAGE AND TO INCREASE THE WIRE SIZE AS NECESSARY TO ADJUST FOR THE VOLTAGE DROP.
37. UNGROUNDED CONDUCTORS SHALL USE BLACK INSULATION, NEUTRAL CONDUCTORS SHALL USE WHITE INSULATION, & GROUNDING CONDUCTORS SHALL USE GREEN INSULATION.
38. ALL EXPOSED OR SURFACE MOUNTED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT.
39. ALL CONDUIT THAT WILL REMAIN EMPTY AS SPARES SHALL BE MANDREL TESTED, CLEANED INSIDE AND BOTH ENDS CAPPED. LEAVE CORROSION RESISTANT, PULL/DRAW WIRE AND PLACE DUCT MARKERS, OR PULLBOXES TO MARK THE LOCATION OF THE ENDS OF THE CONDUIT.
40. PULL BOXES SHALL BE LOCATED AT ENDS OF CONDUIT CROSSING ROADWAYS, AND AS NECESSARY FOR THE COMPLETION OF THE PROJECT. INSTALL WITH A 12" BED OF PEAROCK OR CRUSHED STONE FOR DRAINAGE.
41. THESE PLANS REPRESENT MINIMUM ACCEPTABLE CRITERIA. THE INSPECTION PER THESE DRAWINGS REPRESENT THE MINIMUM BASE ACCEPTANCE.
42. TRAIL TO REMAIN ACCESSIBLE TO PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION. PROVIDE A MINIMUM OF 4FT OF UNOBSTRUCTED PATH AROUND WORK ZONES. IF 4FT OF UNOBSTRUCTED PATH CANNOT BE MAINTAINED, PROVIDE TEMPORARY PATH AROUND WORKZONE OR PROVIDE PEDESTRIAN DETOURS AS REQUIRED.
43. THE FILL MATERIALS WITHIN THE CANAL RIGHT-OF-WAY SHOULD CONSIST OF THE LIMEROCK BASE FILL MATERIAL THAT IS FREE OF CONTAMINANTS AND MEETS THE CLEAN FILL CRITERIA DEFINITION PURSUANT TO CHAPTER 24-5 OF THE CODE OF MIAMI-DADE COUNTY THE LIMEROCK BASE FILL MATERIAL ALSO SHOULD MEET THE REQUIREMENTS OF THE FDOT STANDARD SPECIFICATIONS, DATED FY 2025-26 OR THE CURRENT AVAILABLE STANDARD SPECIFICATIONS AT THE TIME OF CONSTRUCTION, SECTIONS 911-1 THROUGH 911-2.3, AND 911-3.1 THROUGH 911-3.4.

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION						L-3





SPECIAL NOTES

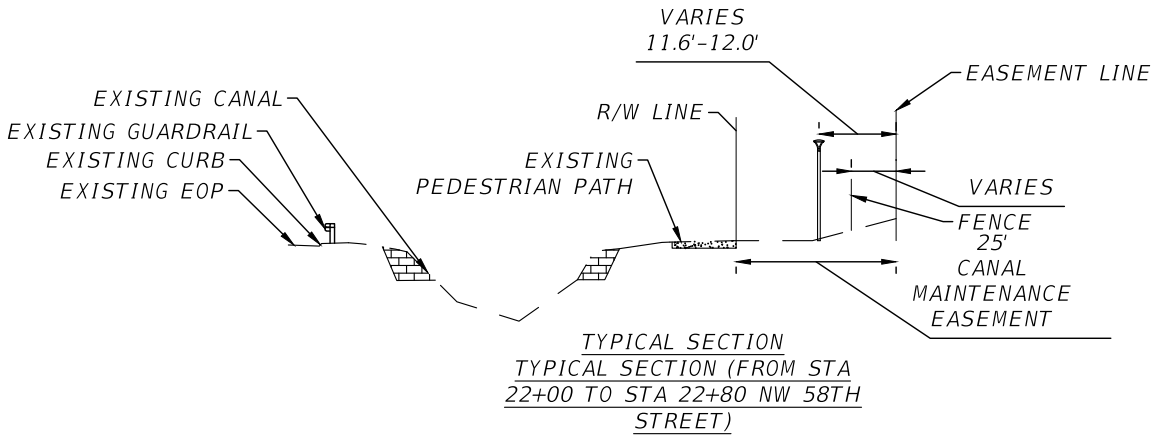
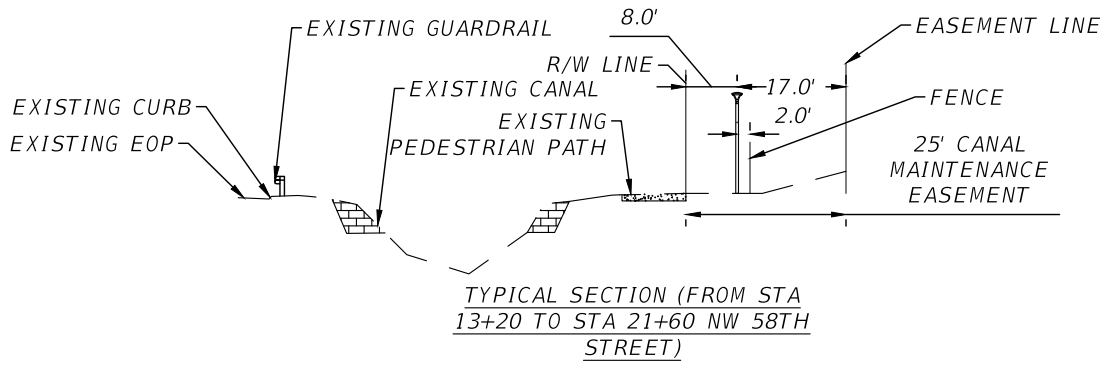
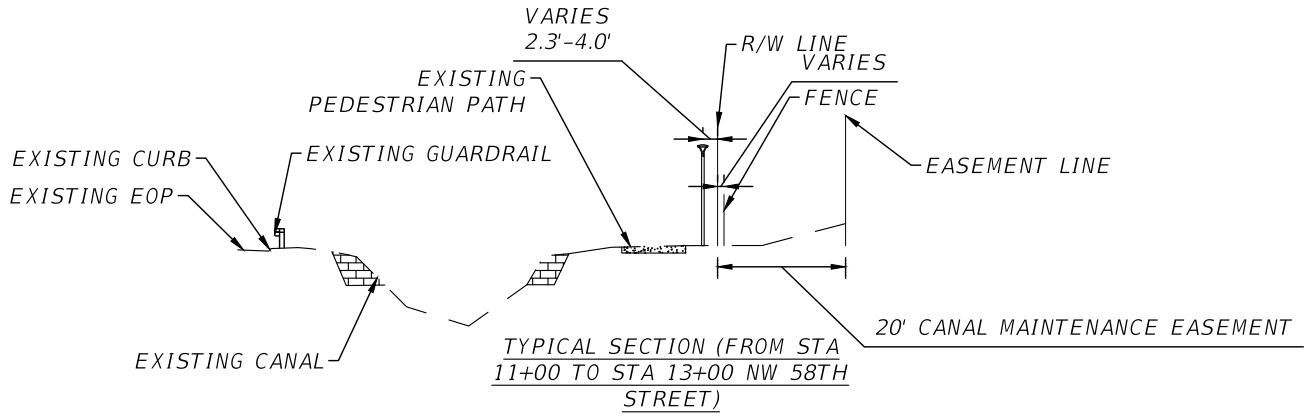
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UNDERGROUND AND ABOVE GROUND IMPROVEMENTS SUCH AS CONDUITS, GAS MAINS, SANITARY SEWER LINES, TV CABLE, TELEPHONE, LATERALS, WATER MAINS, POLES, PIPES, CABLES AND OTHER STRUCTURES FROM INJURY, AND IN CASE OF DAMAGE THEY SHALL BE RESTORED WITHOUT COMPENSATION.
- HAND-DIG WHERE THERE IS ANY CONFLICT WITH THE EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES FOR LOCATION OF THEIR EXISTING FACILITIES. IT'S THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE UTILITIES FOR THE EXACT DEPTH. CONTACT "SUNSHINE"AT 811 PRIOR TO DIGGING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE CONTRACTOR'S OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THEIR EXISTING FACILITIES CONFLICT WITH THE CONSTRUCTION.
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO "SUNSHINE".
- CONTRACTOR TO USE CAUTION WHEN WORKING UNDER AND IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITIES. PROVIDE A LETTER FROM FPL APPROVING METHOD OF LIGHT POLE INSTALLATION. CONTACT JESSICA SALAZAR AT JESSICA.SALAZAR@FPL.COM PRIOR TO CONSTRUCTION.
- LIGHT POLE USED AS BASIS OF DESIGN IS HAPCO'S ROUND TAPERED ALUMINUM (RTA) POLE, OR APPROVED EQUAL. POLES SHALL BE DIRECT BURIED AS PER MANUFACTURER'S RECOMMENDATION AND DESIGNED FOR A WIND SPEED ACCORDING TO THE 2020 FLORIDA BUILDING CODE.
- CONTRACTOR IS TO REMOVE ALL SHRUBS/BUSHES WITHIN A 4 FT RADIUS OF ALL LIGHT POLE LOCATIONS TO ALLOW ADEQUATE SPACE FOR ACCESS AND MAINTENANCE. TRIM TREE BRANCHES WITHIN 2 FT RADIUS OF ALL LIGHT POLE LOCATIONS. VERIFY OWNERSHIP AND COORDINATE REMOVAL AND TRIMMING OF BUSHES, SHRUBS, AND TREES WITH OWNER. REPLACE ANY REMOVED TREES, BUSHES, AND SHRUBS IN KIND.



GUARANTEE

THE CONTRACTOR SHALL SUBMIT A WRITTEN GUARANTEE COVERING ALL MATERIALS, WORKMANSHIP, AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR COMMENCING FROM THE DAY OF FINAL ACCEPTANCE. ANY REPAIRS DUE TO DEFECTIVE WORKMANSHIP OR MATERIALS DURING THE ONE-YEAR PERIOD SHALL BE MADE BY THE CONTRACTOR WITHOUT CHARGE TO THE CITY.





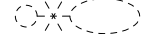





REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION						L-4





REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION						L-5





SYMBOLS	LEGEND DESCRIPTION
	POST TOP LIGHT POLE WITH 54W LED LUMINAIRE DESIGNED FOR 5,983 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT_LED_P3_40K_PATH_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.
	POST TOP LIGHT POLE WITH 86W LED LUMINAIRE DESIGNED FOR 9,209 LUMENS, TYPE IV DISTRIBUTION, 4000K CCT, AND WIRED FOR 240V OPERATION. USE LITHONIA'S RADIAN POST TOP LED WITH CURVE RADPT_LED_P4_40K_PATH_HS. LUMINAIRES TO BE EQUIPPED WITH HOUSE SIDE SHIELDS.
	EXISTING POLE LIGHT TO REMAIN
	EXISTING SOLAR POWERED LIGHT POLE TO BE REMOVED AND DISPOSED.
	EXISTING LIGHT POLE AND FOUNDATION TO BE REMOVED AND DISPOSED.
	PROPOSED LOAD CENTER
	EXISTING LOAD CENTER
	2" SCHEDULE 40 PVC CONDUIT, DIRECT BURIED IN OPEN TRENCH, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.
	2" HDPE CONDUIT INSTALLED BY DIRECTIONAL BORE, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS WITH OTHER CONDUCTORS.
	PULL BOX

NOTES:  
1. COORDINATE LIGHT POLE AND LUMINAIRE COLORS WITH THE CITY OF DORAL PRIOR TO PROCUREMENT.

PEDESTRIAN WAYS AND BICYCLE WAYS  
LIGHTING CRITERIA  
(DRESSEL'S DAIRY TRAIL)

AVERAGE MAINTAINED INTENSITY	2.0 FOOT CANDLES
UNIFORMITY RATIO AVG./MIN.	3:1 OR LESS
UNIFORMITY RATIO MAX./MIN.	N/A
WIND SPEED	160 MPH

REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LEGEND	SHEET NO.
DATE	DESCRIPTION						L-6




Lighting Data Table

Pole No.	Easting	Northing	Baseline	Station	Offset	Foundation	Arm Length	Arm Rise	Mount Height	Quantity Luminaires	Type	Make\ Model	Lumens	IES Dist Type	CCT(K)	Tilt (deg)	Luminaire Watts	Luminaire Volts	Load Center No.	Circuit No.	M Agency	City Item
P-1	858256.4528	542886.4028	NW 58TH ST	11+10.36	72.13' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110
P-2	858308.2310	542892.2170	NW 58TH ST	11+62.18	66.71' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110
P-3	858358.6850	542902.3290	NW 58TH ST	12+12.71	56.98' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110
P-4	858410.2530	542910.8110	NW 58TH ST	12+64.34	48.88' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110
P-5	858462.6340	542912.2557	NW 58TH ST	13+16.73	47.83' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-6	858514.6324	542912.6481	NW 58TH ST	13+68.73	47.83' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-7	858566.6306	542912.6192	NW 58TH ST	14+20.72	48.25' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-8	858618.6300	542912.6978	NW 58TH ST	14+72.72	48.56' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-9	858670.6258	542913.3610	NW 58TH ST	15+24.72	48.29' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-10	858722.6216	542914.0242	NW 58TH ST	15+76.72	48.02' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-11	858774.6179	542914.6348	NW 58TH ST	16+28.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-12	858826.6164	542915.0243	NW 58TH ST	16+80.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-13	858878.6150	542915.4138	NW 58TH ST	17+32.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-14	858930.6119	542915.8041	NW 58TH ST	17+84.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-15	858982.6104	542916.1949	NW 58TH ST	18+36.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-16	859034.6090	542916.5856	NW 58TH ST	18+88.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-17	859086.6075	542916.9764	NW 58TH ST	19+40.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-18	859138.6060	542917.3671	NW 58TH ST	19+92.72	47.80' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-19	859190.6046	542917.7507	NW 58TH ST	20+44.72	47.81' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-20	859242.6032	542918.1387	NW 58TH ST	20+96.72	47.81' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-21	859294.6017	542918.5294	NW 58TH ST	21+48.72	47.81' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	5983	IV	4000K	0	54	240V	C	2	Doral	715-516-110
P-22	859347.0700	542913.2790	NW 58TH ST	21+01.15	53.45' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110
P-23	859404.7410	542914.1490	NW 58TH ST	22+58.82	53.02' RT	DIRECT	N/A	N/A	10'	1	POST TOP	RADPT	9209	IV	4000K	0	86	240V	C	2	Doral	715-516-110


REVISIONS

DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



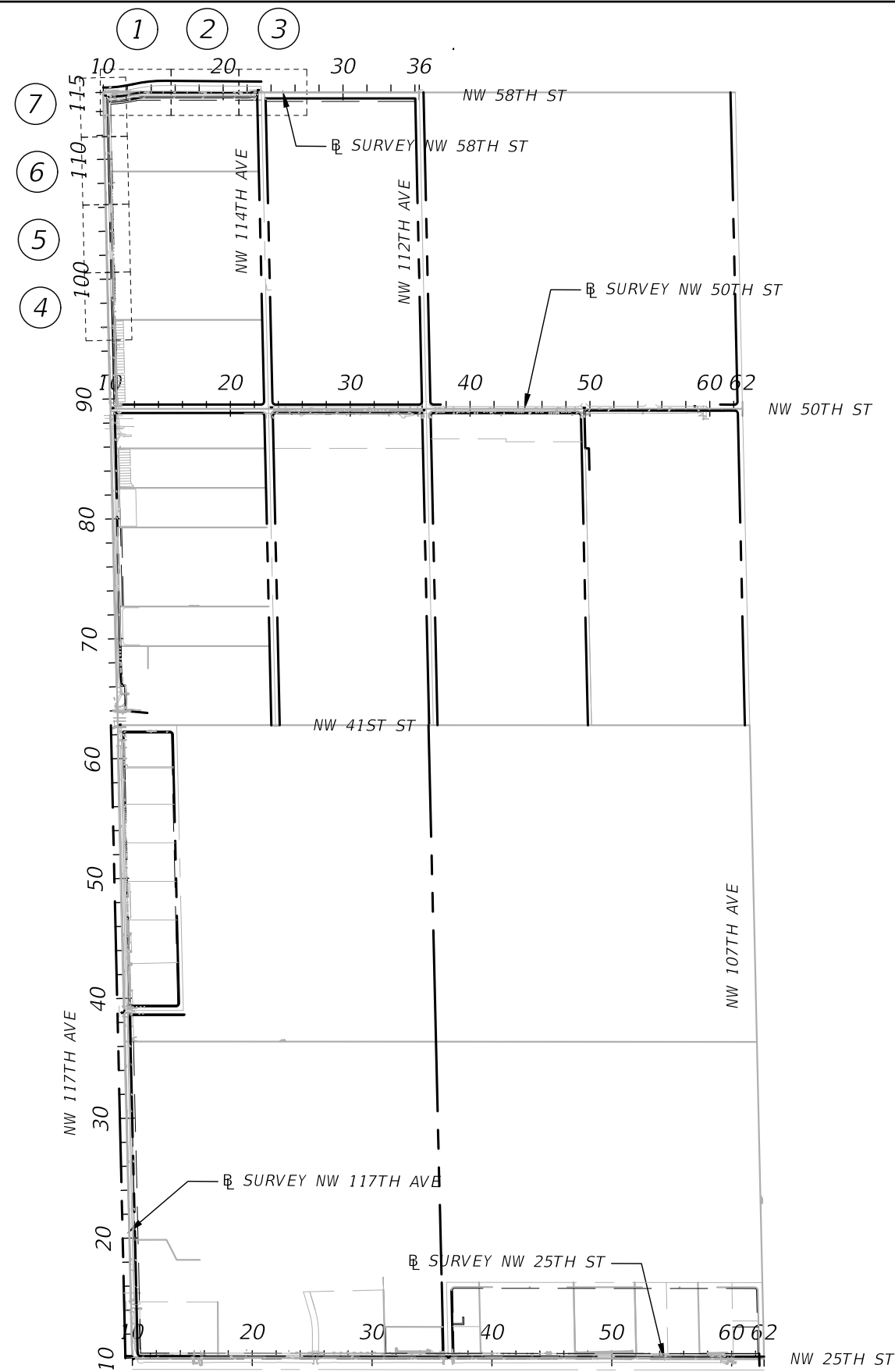
POLE DATA



SHEET NO.

L-7

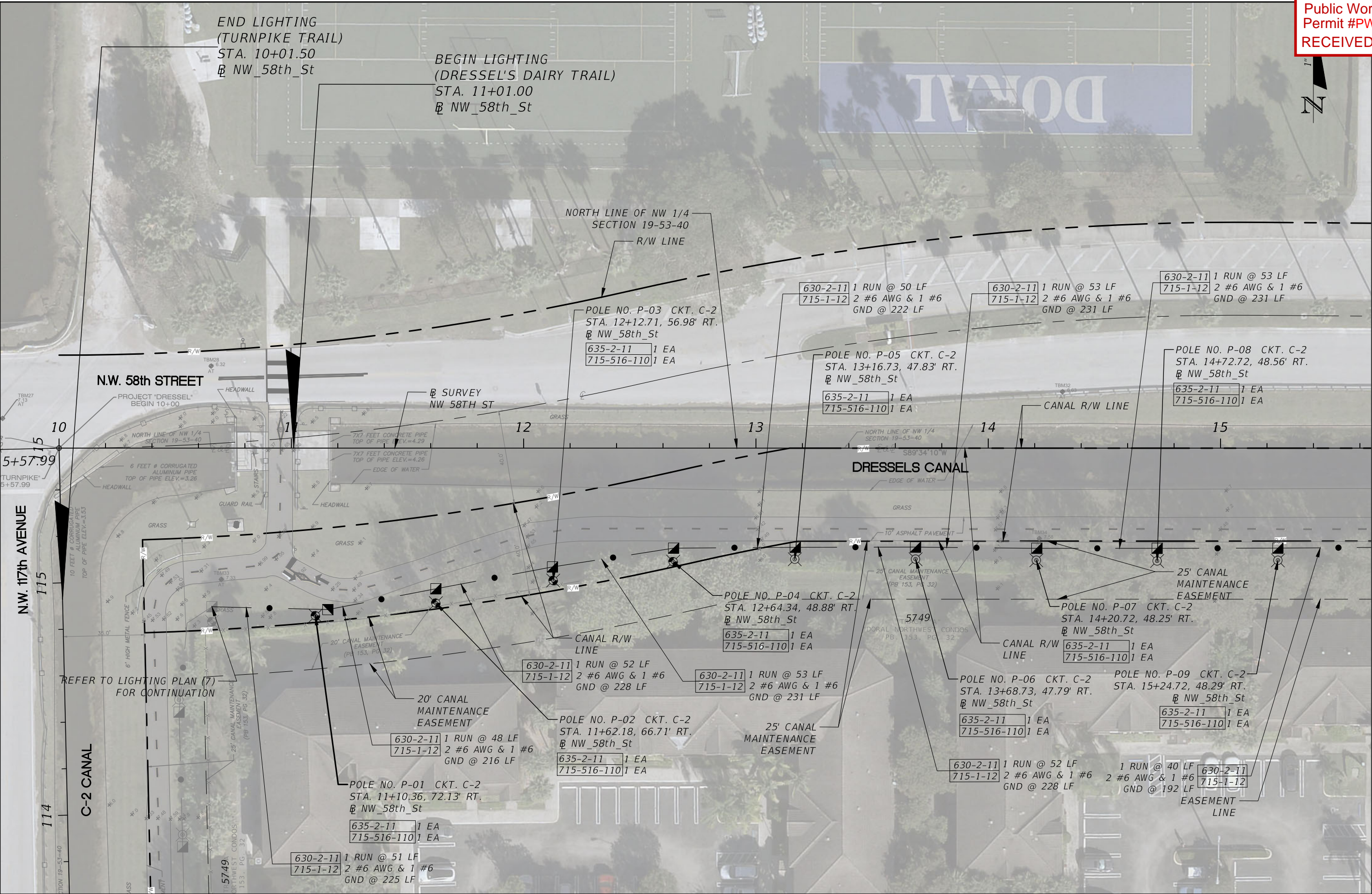
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REVISIONS		 <b>Lochner</b> JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION					L-8





REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (1)

SHEET NO.
L-9

MATCHLINE STA. - 15+65.00

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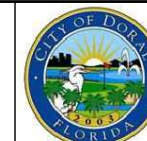


REVISIONS	
DATE	DESCRIPTION



JOSEPH M. CALDERON TORRES II, P.E.  
P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



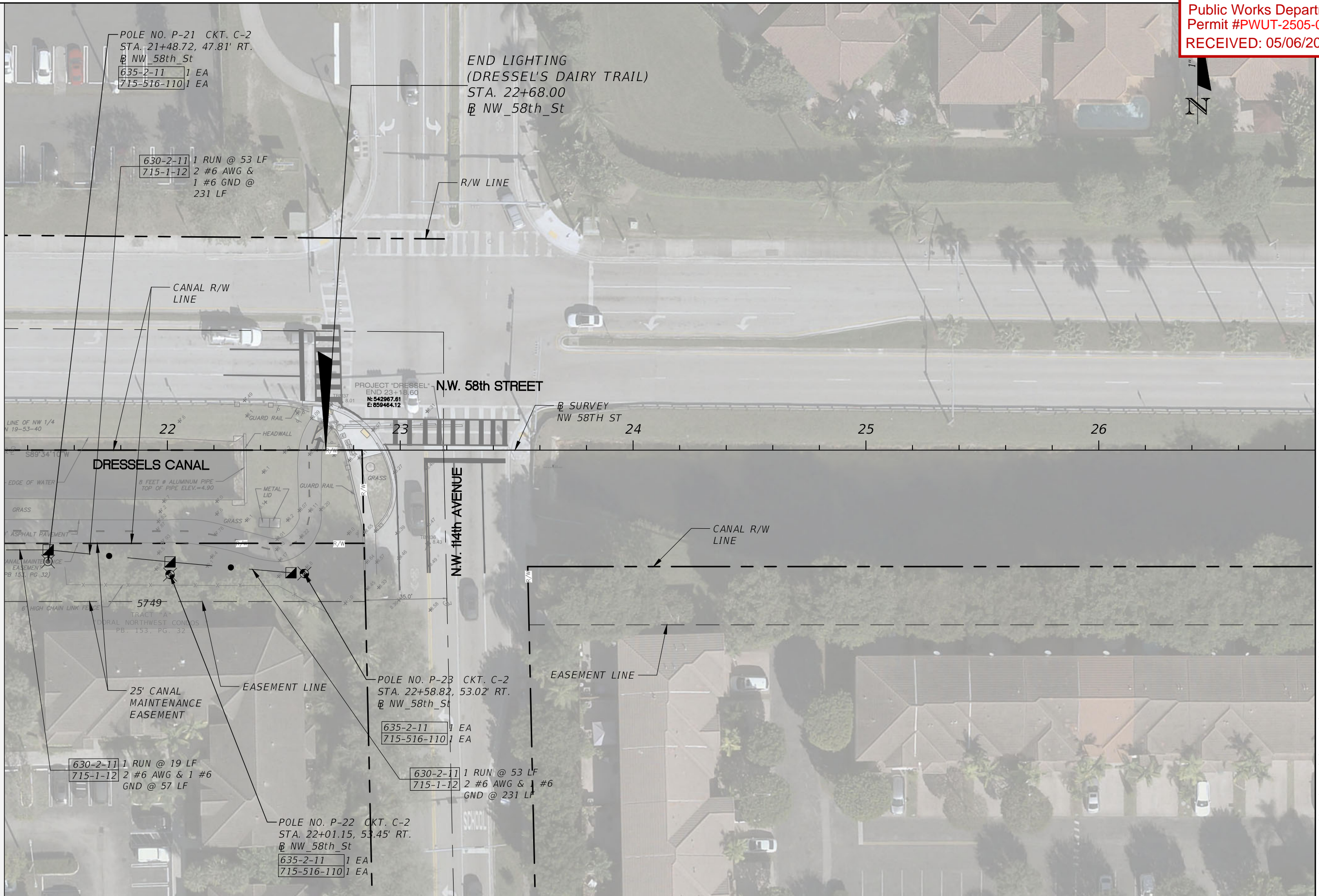
## LIGHTING PLAN (2)

SHEET  
NO.



L-10



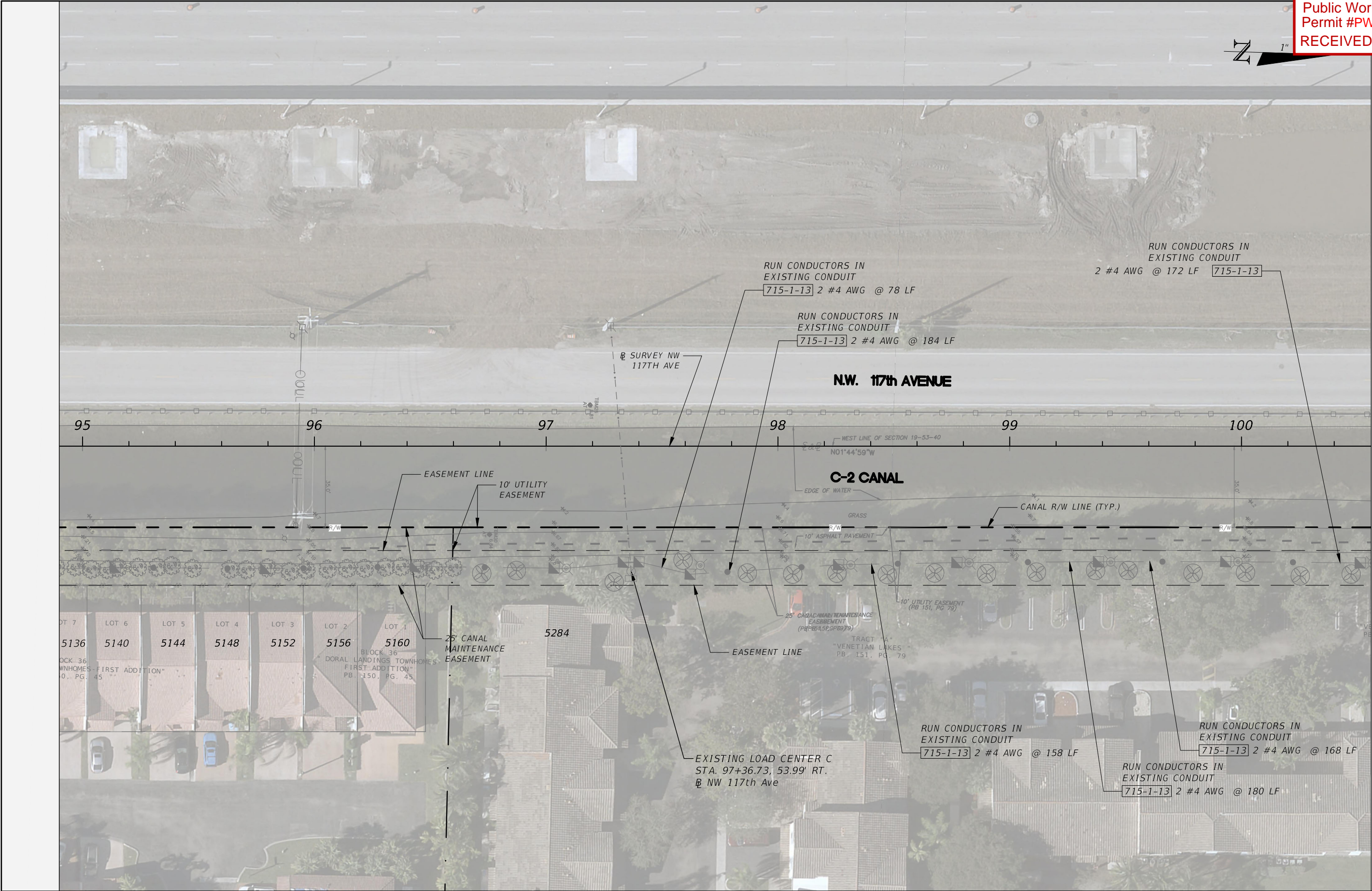
MATCHLINE STA. - 21+30.00



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REVISIONS			JOSEPH M. CALDERON TORRES II, P.E. P.E. LICENSE NUMBER 90625 H.W. LOCHNER, INC. CONSULTING ENGINEERS AND PLANNERS 8750 NW 36th STREET - SUITE 360 MIAMI, FLORIDA - 33178	CITY OF DORAL TRAIL LIGHTING IMPROVEMENTS		LIGHTING PLAN (3)	SHEET NO.
DATE	DESCRIPTION						
							L-11





REVISIONS	
DATE	DESCRIPTION



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P.E. LICENSE NUMBER 90625  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS AND PLANNERS  
8750 NW 36th STREET - SUITE 360  
MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (4)

SHEET NO.
L-12

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REVISIONS	
DATE	DESCRIPTION



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MIAMI, FLORIDA - 33178

CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

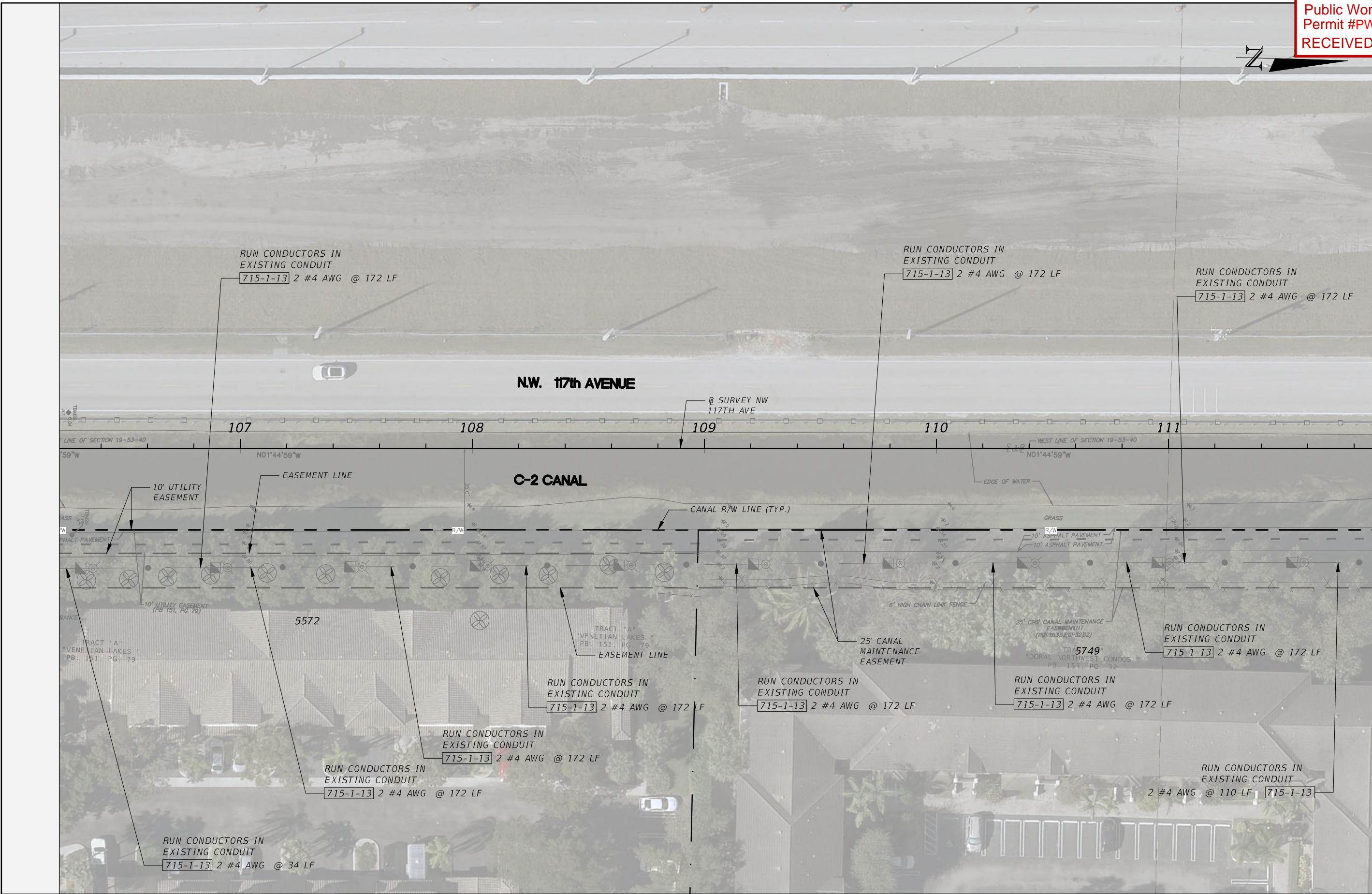


LIGHTING PLAN (5)

SHEET NO.
L-13

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REVISIONS	
DATE	DESCRIPTION



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CONSULTING ENGINEERS AND PLANNERS  
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MIAMI, FLORIDA - 33178

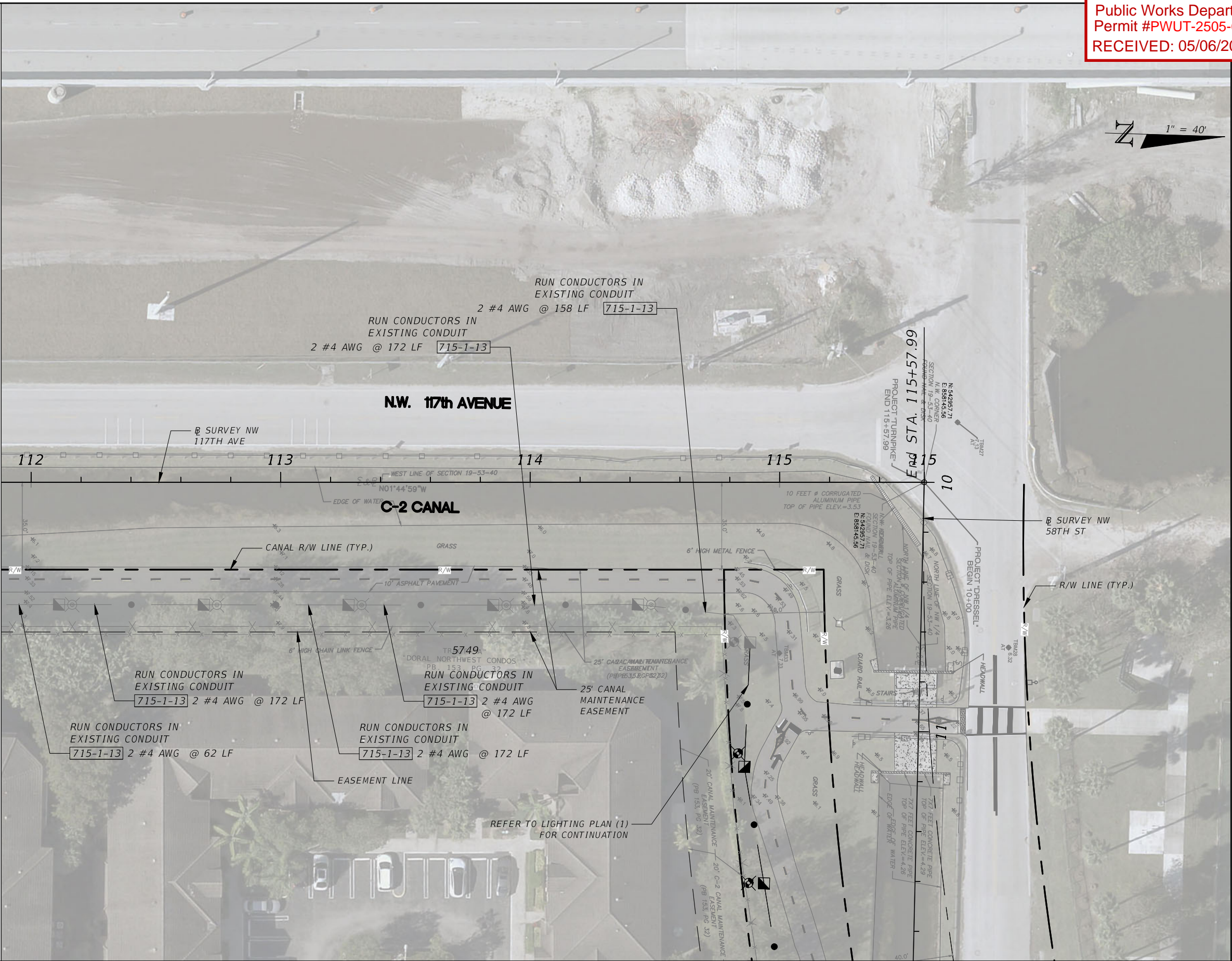
CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS



LIGHTING PLAN (6)	
SHEET NO.	
L-14	

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REVISIONS	
DATE	DESCRIPTION



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8750 NW 36th STREET - SUITE 360  
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CITY OF DORAL  
TRAIL LIGHTING  
IMPROVEMENTS

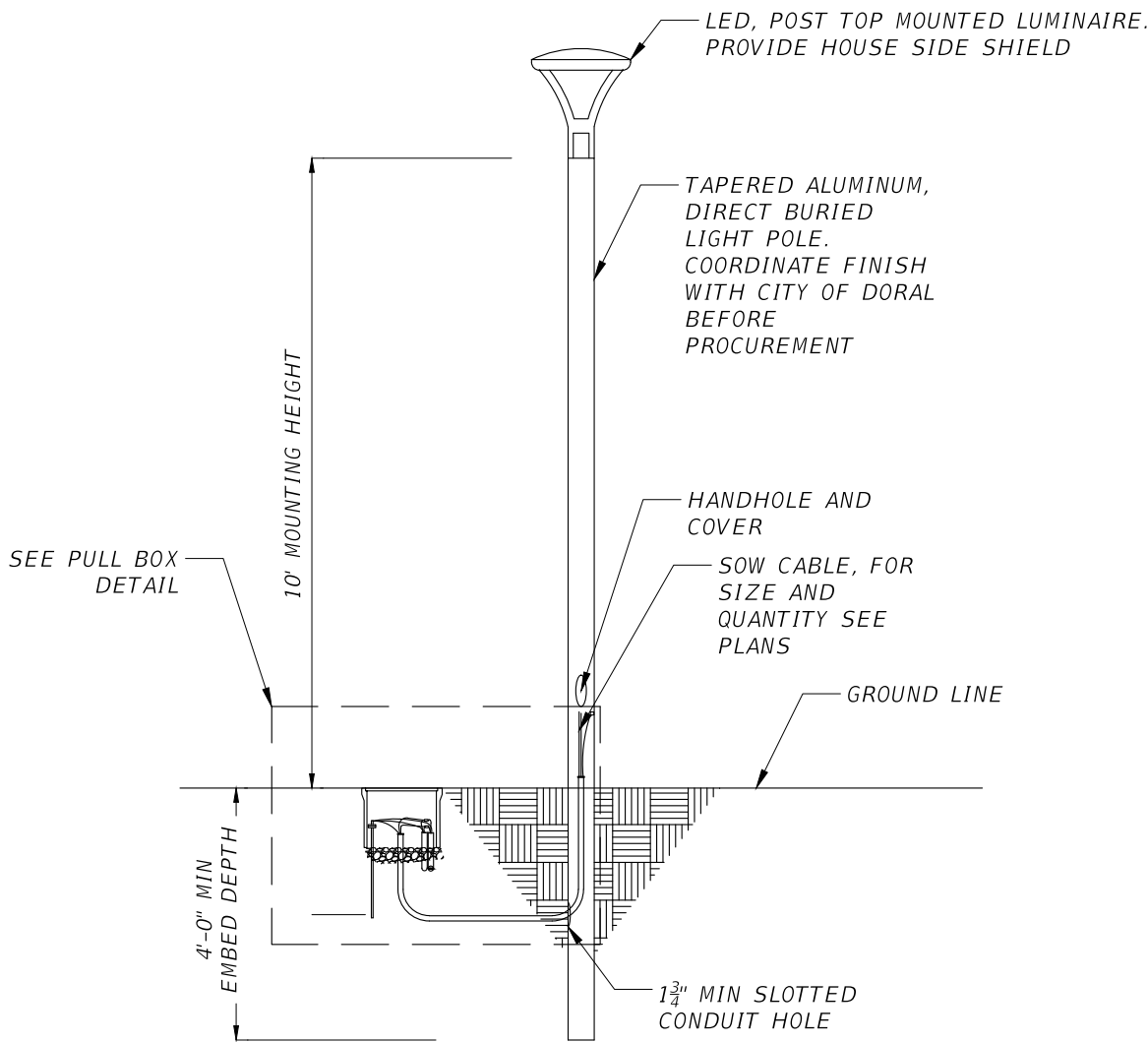


LIGHTING PLAN (7)

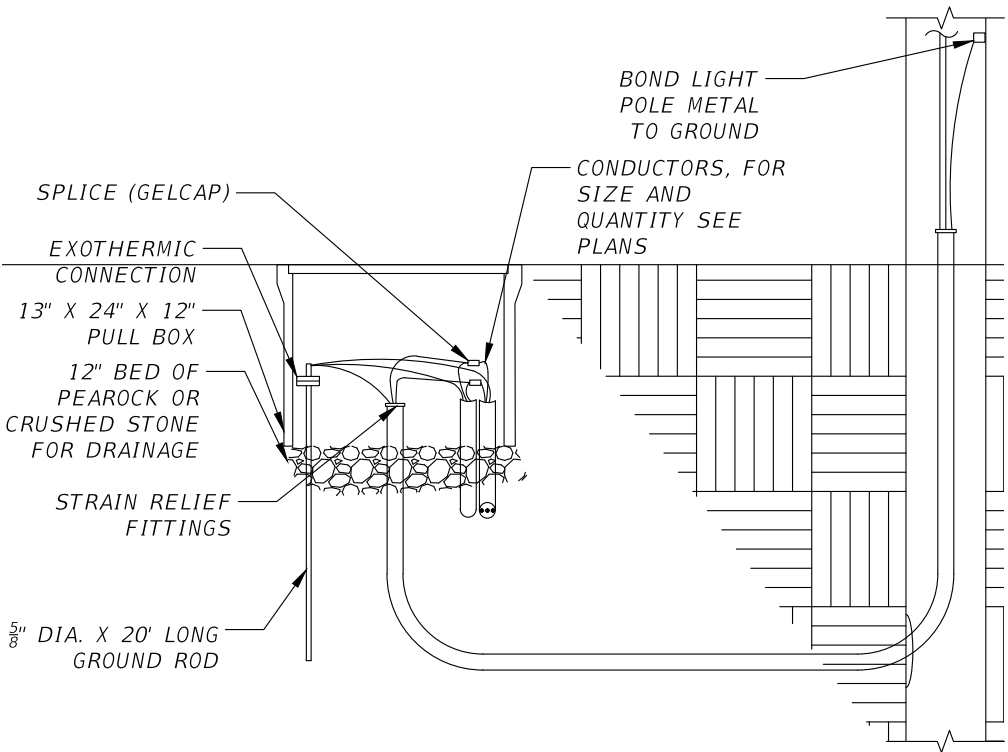
SHEET NO.
L-15

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LIGHT POLE DETAIL



PULL BOX DETAIL

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DATE	DESCRIPTION						
							L-16