

CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS
STREET LIGHTING MODIFICATION
ORANGE AVENUE
FROM 2ND STREET TO 11TH STREET

NPDES GENERAL NOTES:

1. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING INDUSTRY ACCEPTED BEST MANAGEMENT PRACTICES (BMPs). THESE BMPs SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY SUCH AS GRADING THAT MAY CAUSE SOIL DISTURBANCE. THESE BMPs ARE TO BE MAINTAINED YEAR-ROUND OR UNTIL ALL LOOSE SEDIMENT HAS BEEN STABILIZED.
2. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, AND ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND. STOCKPILED MATERIAL SHALL BE NO MORE THAN 8 FEET IN HEIGHT AND SHALL BE COMPLETELY COVERED WITH A SECURE IMPERMEABLE COVER AT THE END OF EACH WORK DAY. ALL STOCKPILES SHALL BE LOCATED AWAY FROM ANY STORM DRAIN INLETS AND AWAY FROM ANY STORM WATER CONVEYANCE STRUCTURES. AT NO TIME SHALL ANY RAW MATERIAL BE STAGED OR STOCKPILED ON CITY STREETS, SIDEWALKS, AND/OR GUTTERS WITHOUT A VALID OBSTRUCTION PERMIT.
3. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, AND ADJOINING PROPERTY BY WIND OR RUNOFF.
4. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED ON THE CONSTRUCTION SITE AND SHALL NOT BE DISCHARGED TO RECEIVING WATERS OR TO THE STORM DRAIN SYSTEM.
5. CONCRETE WASH OUT WATER SHALL BE CONTAINED IN A WATER-TIGHT DEVICE TO PREVENT CEMENT DEPOSITION ONTO THE GROUND AND RUNOFF INTO STREETS, DRAINAGE FACILITIES, AND RECEIVING WATERS.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMPs AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. AT THE END OF EACH WORK DAY, ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN COVERED TRASH OR RECYCLE BINS.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT STORMWATER DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIALS OTHER THAN STORMWATER (NON-STORMWATER DISCHARGES) ARE PROHIBITED EXCEPT AS AUTHORIZED BY AN INDIVIDUAL NPDES PERMIT OR THE STATEWIDE GENERAL CONSTRUCTION STORMWATER PERMIT.
9. ALL UNPAVED CONSTRUCTION ENTRANCES AND EXITS SHALL BE PROTECTED USING AN EFFECTIVE COMBINATION OF TRACKING CONTROL BMPs TO MINIMIZE AND/OR ELIMINATE OFF-SITE TRACKING OF SEDIMENT. THESE BMPs SHALL BE MAINTAINED AND INSPECTED DAILY.
10. ALL TEMPORARY PORTABLE RESTROOMS MUST HAVE A CATCHMENT PAN AND MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY STORM DRAIN INLETS.
11. POLLUTANTS ARE ANY SUBSTANCES INTRODUCED INTO THE ENVIRONMENT THAT ADVERSELY AFFECTS THE USEFULNESS OF A RESOURCE. POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO: SEDIMENT; SOLID OR LIQUID CHEMICALS SUCH AS: PAINTS, STAINS, SEALANTS, SOLVENTS, DETERGENTS, GLUES, LIME, PESTICIDE, HERBICIDE, FERTILIZERS, WOOD PRESERVATIVES AND ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE, AND RELATED CUTTING OR CURING RESIDUES; FLOATABLE WASTES; WASTES FROM ENGINE / EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; WASTES FROM STREET CLEANING; AND SUPER-CHLORINATED POTABLE WATER FROM LINE FLUSHINGS AND TESTING.
12. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED MANNER. A DESIGNATED TEMPORARY AREA ON-SITE SHALL BE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
13. DISCHARGING CONTAMINATED GROUNDWATER, PRODUCED BY DEWATERING GROUNDWATER THAT HAS INFILTRATED INTO THE CONSTRUCTION SITE IS PROHIBITED. DISCHARGING OF CONTAMINATED SOILS VIA SURFACE EROSION IS ALSO PROHIBITED. DISCHARGING NON-CONTAMINATED GROUNDWATER PRODUCED BY DEWATERING ACTIVITIES REQUIRES A NATIONAL POLLUTANTS DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
14. DISCHARGES OF STORM WATER FROM CONSTRUCTION SITES SHALL NOT BE LADEN WITH SEDIMENT. ALL STORM WATER DISCHARGES MUST BE RELATIVELY FREE OF SEDIMENT.
15. ALL CONTRACTORS AND CONSTRUCTION PERSONNEL SHALL MEET THE REGULATORY CONSTRUCTION REQUIREMENTS ON THE PROJECT SITE IN COMPLIANCE WITH THE CITY'S MUNICIPAL CODE 14.25, STORMWATER AND URBAN RUNOFF MANAGEMENT AND MUNICIPAL CODE 17.05, GRADING AND EXCAVATION CODE.

GENERAL NOTES:

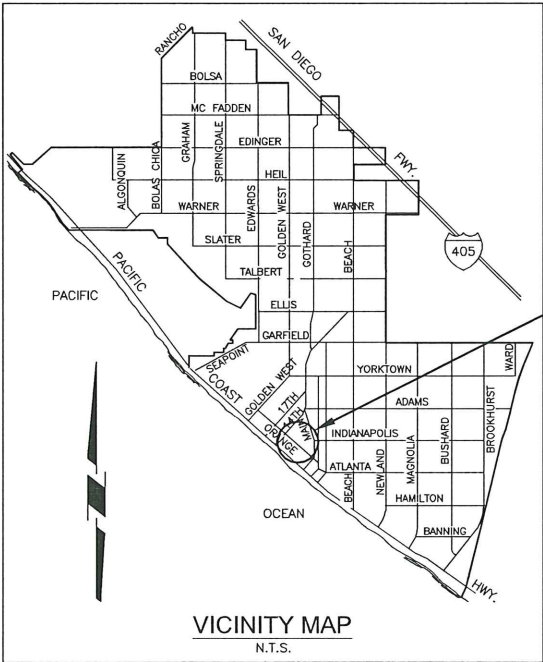
1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
2. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD PLANS AND SPECIFICATIONS (2108), AND THE AGENCY'S STANDARD PLANS, PROJECT PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS INCLUDING THE AGENCY'S 2005 STANDARD SPECIAL PROVISIONS FOR THE CONSTRUCTION OF TRAFFIC SIGNAL AND LIGHTING SYSTEMS. THE CONTRACTOR SHALL KEEP A COPY OF THIS INFORMATION ON THE JOB SITE.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COMPLETE AND SUBMIT TO THE AGENCY THE UNDERGROUND SERVICE ALERT IDENTIFICATION FORM WHICH HAS BEEN PROVIDED IN THE PROJECT SPECIFICATIONS.
4. A PRE-CONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCING OF WORK.
5. THE CONTRACTOR SHALL NOTIFY THE AGENCY'S CONSTRUCTION MANAGER, JOE DALE AT (714) 536-5915, A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AND 48 HOURS IN ADVANCE FOR PROJECT INSPECTION. SURVEY STAKING SHALL BE PROVIDED BY THE CONTRACTOR.
6. ALL TRAFFIC CONTROL AND LANE CLOSURES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
7. STOCKPILING OF MATERIAL WILL NOT BE ALLOWED IN OR AROUND THE PROJECT SITE.

APPROVED: _____
THOMAS M. HERBEL, P.E.
CITY ENGINEER

DATE

APPROVED: _____
SEAN CRUMBY, P.E.
DIRECTOR OF PUBLIC WORKS

DATE



PROJECT LOCATION

LIST OF DRAWINGS

SHEET	TITLE
1	TITLE SHEET
2	STREET LIGHTING PLAN – ORANGE AVE., 2ND TO MAIN ST.
3	STREET LIGHTING PLAN – ORANGE AVE., MAIN ST. TO 8TH ST.
4	STREET LIGHTING PLAN – ORANGE AVE., 8TH ST. TO 11 ST.

NOTICE TO THE CONTRACTOR

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF HUNTINGTON BEACH AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF HUNTINGTON BEACH OR THE ENGINEER.

EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.

Underground Service Alert



Call: 811

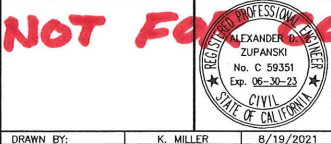
TWO WORKING DAYS BEFORE YOU DIG

PLAN PREPARED BY:

FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
(949) 252-1688

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'D



DRAWN BY: K. MILLER 8/19/2021
DESIGNED BY: H. TRINH 8/19/2021
CHECKED BY: A. ZUPANSKI 8/19/2021

PREPARED UNDER THE SUPERVISION OF:

ALEXANDER D. ZUPANSKI
R.C.E. NO.: 59351 EXP. DATE: 6/30/23

REVIEWED BY:

TRANSPORTATION ENGINEERING
DATE: _____

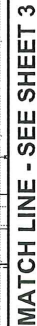


DEPARTMENT OF PUBLIC WORKS

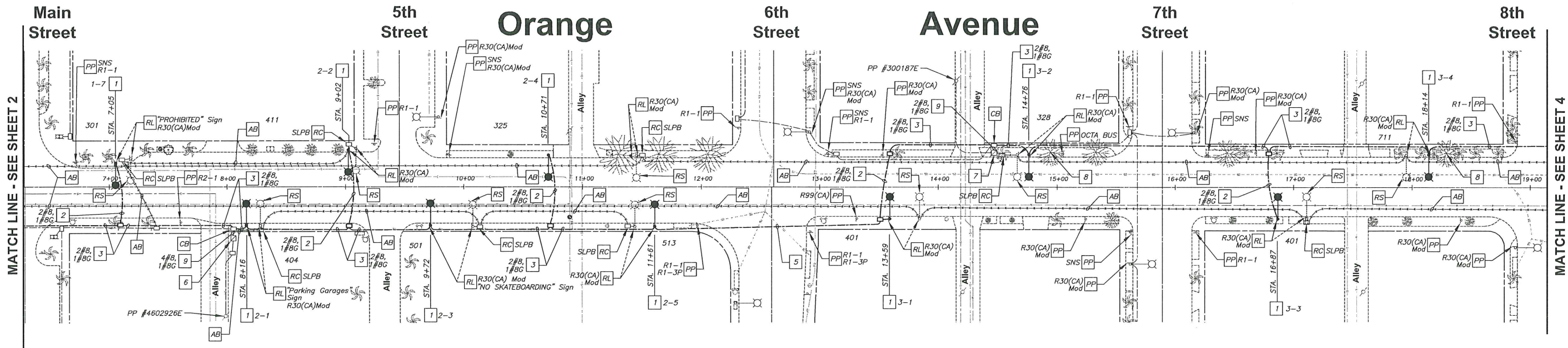
STREET LIGHTING MODIFICATION PLAN
ORANGE AVENUE
2ND STREET TO 11TH STREET

SHEET NO.

1
OF
4



2
OF
4



STREET LIGHTING GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE CURRENT PROJECT SPECIAL PROVISIONS, THE STANDARD PLANS (SPPWC) AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE CITY OF HUNTINGTON BEACH STANDARD DRAWINGS, THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND STANDARD SPECIFICATIONS, LATEST EDITION, CITY OF HUNTINGTON BEACH STANDARD SPECIAL PROVISIONS FOR TRAFFIC SIGNAL AND STREET LIGHTING CONSTRUCTION, THE NATIONAL ELECTRIC CODE (NEC), THE CALIFORNIA STATE SAFETY ORDER, AND ALL OTHER CODES, ORDINANCES, RULES, AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL NECESSARY PERMITS AS REQUIRED FROM THE CITY OF HUNTINGTON BEACH AND PER UTILITY COMPANY REQUIREMENTS.
- MATERIALS SHALL BE RECOGNIZED BY THE UNDERWRITER'S LABORATORY, INC., AS HAVING SUITABLE CHARACTERISTICS WHEN PROPERLY FORMED AND TREATED, INCLUDING RIGID POLYVINYL CHLORIDE (PVC) CONDUIT.
- ALL WORK RELATED TO ELECTRICAL SERVICE SHALL BE PERFORMED IN CONFORMANCE WITH SOUTHERN CALIFORNIA EDISON COMPANY REQUIREMENTS AND THE CITY OF HUNTINGTON BEACH.
- THE CONTRACTOR SHALL BE FAMILIAR WITH THE WORK SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THE PLANS.
- TWENTY-FOUR (24) HOUR PERIOD NOTICES SHALL BE GIVEN FOR ALL CITY INSPECTIONS.
- THE CONTRACTOR SHALL LOCATE ALL SUBSTRUCTURES PRIOR TO CONSTRUCTION. HAND DIG ELECTROLIER FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. THE RESPONSIBILITIES OF THE CONTRACTOR SHALL BE TO ASCERTAIN TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF UNDERGROUND UTILITIES, AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.
- THE CONTRACTOR SHALL CONTACT SOUTHERN CALIFORNIA EDISON (SCE) TEN (10) WORKING DAYS IN ADVANCE TO SCHEDULE SERVICE CONNECTION/DISCONNECTION.
- ALL NEW STREET LIGHTS (ELECTROLIERS AND LUMINAIRES) SHALL BE OWNED, OPERATED, AND MAINTAINED BY THE CITY OF HUNTINGTON BEACH.
- ALL NEW PULL BOXES SHALL BE NO. 5 (CHRISTY CONCRETE PRODUCTS, MODEL NUMBERS FL300 AND FL300) PER CITY STD. PLAN NO. 422, CALTRANS STD. PLAN ES-8, AND THE CITY'S TRAFFIC SIGNAL AND LIGHTING SYSTEMS STANDARD SPECIAL PROVISIONS. ALL NEW AND DISTURBED PULL BOXES SHALL HAVE A NEW 6" CONCRETE MOW STRIP PLACED AROUND THE PULL BOXES. NO NEW PULL BOXES SHALL BE INSTALLED WITHIN 1 FOOT OF ANY ACCESS RAMP.
- ALL SALVAGED EQUIPMENT SHALL BE REVIEWED BY TRAFFIC SIGNAL MAINTENANCE (GEORGE RUFF, 714 536-5530) FOR ACCEPTANCE. EQUIPMENT NOT ACCEPTED SHALL BECOME PROPERTY OF THE CONTRACTOR.
- THE EXISTING STREET LIGHTING SHALL REMAIN IN SERVICE UNTIL REPLACED BY THE NEW SYSTEM.
- NEW STREET LIGHTING NUMBERS ON ELECTROLIERS TO BE FURNISHED AND INSTALLED BY THE CITY.
- SIGNING SHALL CONFORM TO THE CURRENT CALTRANS SIGN SPECIFICATIONS. SIGN SIZE SHALL BE THE STANDARD SIZE NOTED IN THE SIGN SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLAN.

EXACT LOCATIONS OF ELECTROLIERS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

STATIONS ARE SHOWN FOR REFERENCE ONLY AND ARE NOT BASED ON SURVEY.

SERIES CIRCUIT SAFETY WARNING

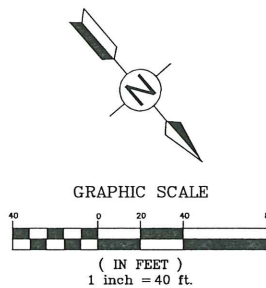
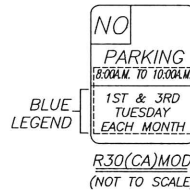
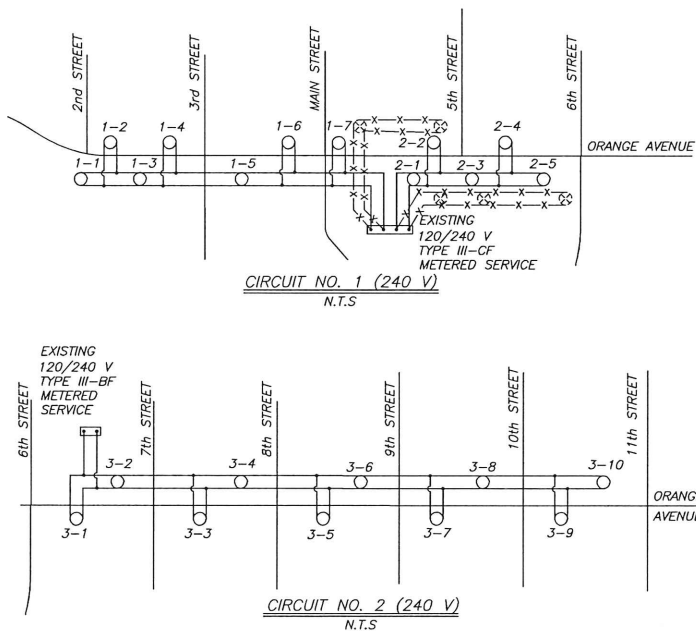
BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR SHALL OBTAIN DAILY A SAFETY CIRCUIT CLEARANCE FROM THE SERVING UTILITY. BYPASS SWITCH PLUGS SHALL BE PULLED AND "MEN AT WORK" SIGNS SHALL BE POSTED AT SWITCH BOXES BEFORE ANY WORK IS DONE.

STREET LIGHTING CONSTRUCTION NOTES

- AB ABANDON CONDUIT AND REMOVE CONDUCTORS.
 - CB INSTALL CONDUIT INTO EXISTING PULL BOX.
 - SC SPLICE CONDUCTORS
 - PP PROTECT IN PLACE.
 - RL RELOCATE EXISTING SIGN ONTO NEW STREET LIGHT OR INSTALL SIGN AND NEW POST, IF NECESSARY (PER CITY STANDARD PLAN 401).
 - RS REMOVE AND SALVAGE EXISTING STREET LIGHT COMPLETE, REMOVE FOUNDATION AND RESTORE PLANTINGS / SIDEWALK TO SURROUNDING CONDITIONS.
 - RC EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR (RESTORE PLANTINGS / SIDEWALK TO SURROUNDING CONDITIONS).
- INSTALL CITY-FURNISHED STREET LIGHT POLE, MAST ARM, AND LUMINAIRE: AMERON TYPE 6B1-21 POLE WITH 6" ARM AND WITH NEW LEOTEK COMFORTVIEW™ NEIGHBORHOOD LED LUMINAIRE, MODEL CV1-H-MV-30K-2R-GY-075-LPCR-WL; FIXTURE TO BE FUSED IN HAND HOLE WITH 5 AMP FUSES. CONSTRUCT MODIFIED CALTRANS TYPE 15 FOUNDATION (MODIFIED WIDTH TO 36" DIAMETER).
 - FURNISH AND INSTALL 1 1/2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH CONDUCTORS AS INDICATED. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH CONDUCTORS AS INDICATED. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - EXISTING SERIES CIRCUIT DISCONNECT. DISCONNECT ORANGE AVENUE CIRCUIT. COORDINATE REMOVAL OF EXISTING SERIES SERVICE DISCONNECT WITH EDISON COMPANY SERVICE PLANNER DAN LUCEY AT (714) 895-0548, AT LEAST 48 HOURS PRIOR TO SERVICE DISCONNECT.
 - FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH PULL ROPE. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - EXISTING TYPE III-BF 120/240 V DUAL-METERED SERVICE CABINET WITH TYPE V PEC AND THE FOLLOWING:
METER 1:
100 A, 240 V, 2P CB (MAIN)
30 A, 240 V, 2P CB (LTG. MAIN - WEST)
30 A, 240 V, 2P CB (LTG. MAIN - EAST)
30 A, 240 V, 2P CB (ORANGE NORTH)
30 A, 240 V, 2P CB (ORANGE SOUTH)
15 A, 120 V, 1P CB (PEU)
2-40 A, 240 V, 4P CONTACTOR
METER 2:
100 A, 240 V, 2P CB (MAIN)
30 A, 120 V, 1P CB (FESTIVAL A)
30 A, 120 V, 1P CB (FESTIVAL B)
30 A, 120 V, 1P CB (PEU)
 - EXISTING TYPE III-BF 120/240 V METERED SERVICE CABINET WITH TYPE V PEC AND THE FOLLOWING:
100 A, 240 V, 2P CB (MAIN)
2-30 A, 240 V, 2P CB (LIGHTS)
30 A, 240 V, 2P CB (BLANK)
15 A, 120 V, 1P CB (PEU)
2-40 A, 240 V, 4P CONTACTOR
INSTALL THE FOLLOWING:
30 A, 240 V, 2P CB (STREET LIGHTING - ORANGE AVE.)
 - TRIM TREE BRANCHES 5' CLEAR OF STREET LIGHT POLE AND MAST ARM (WORK TO BE DONE BY CITY FORCES)
 - INSTALL NEW CONDUCTORS IN EXISTING CONDUIT AS NOTED.

LEGEND

- EXISTING STREET LIGHT
- EXISTING STREET LIGHT (TO BE REMOVED)
- PROPOSED STREET LIGHT WITH MAST ARM
- CIRCUIT NO. LIGHT NO.
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING SIGN
- NEW SIGN (AND POST IF NECESSARY)
- EXISTING PULL BOX
- NEW PULL BOX (PB)
- EXISTING STREET LIGHTING SERVICE CABINET
- EXISTING STREET LIGHTING CONDUIT
- EXISTING STREET LIGHTING CONDUIT (TO BE ABANDONED)
- NEW STREET LIGHTING CONDUIT WITH CONDUCTORS
- N.T.S. NOT TO SCALE
- R/W RIGHT OF WAY
- SNS STREET NAME SIGN
- SLPB STREET LIGHTING PULL BOX



Underground Service Alert



Call: 811

PLAN PREPARED BY:

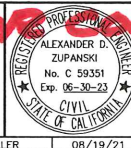
FPL and Associates, Inc.

Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
(949) 252-1688

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'D

NOT FOR CONSTRUCTION



REVIEWED BY:
TRANSPORTATION ENGINEERING
DATE: 6/30/23

DRAWN BY: K. MILLER 06/19/21
DESIGNED BY: H. TRINH 06/19/21
CHECKED BY: A. ZUPANSKI 06/19/21

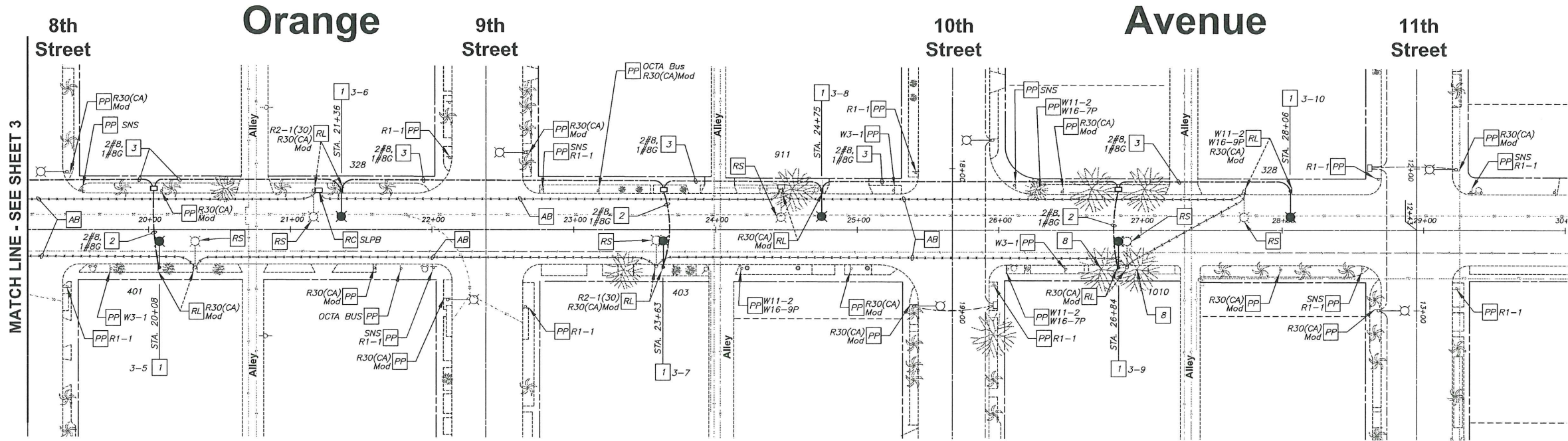


CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS

STREET LIGHTING MODIFICATION PLAN
ORANGE AVENUE
MAIN STREET TO 8TH STREET

SHEET NO.

3
OF
4



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EXACT LOCATIONS OF ELECTROLIERS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

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SERIES CIRCUIT SAFETY WARNING

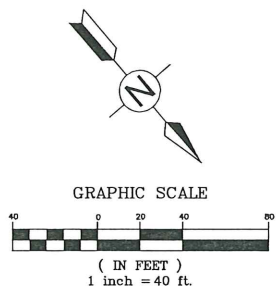
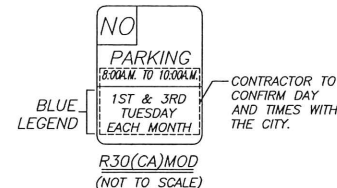
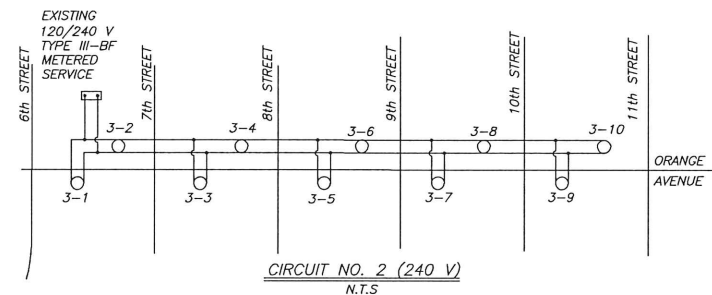
BEFORE STARTING WORK ON EXISTING SERIES LIGHTING CIRCUITS, THE CONTRACTOR SHALL OBTAIN DAILY A SAFETY CIRCUIT CLEARANCE FROM THE SERVING UTILITY. BYPASS SWITCH PLUGS SHALL BE PULLED AND "MEN AT WORK" SIGNS SHALL BE POSTED AT SWITCH BOXES BEFORE ANY WORK IS DONE.

STREET LIGHTING CONSTRUCTION NOTES

- ABANDON CONDUIT AND REMOVE CONDUCTORS.
- INSTALL CONDUIT INTO EXISTING PULL BOX.
- SPLICE CONDUCTORS
- PROTECT IN PLACE.
- RELOCATE EXISTING SIGN ONTO NEW STREET LIGHT OR INSTALL SIGN AND NEW POST, IF NECESSARY (PER CITY STANDARD PLAN 401).
- REMOVE AND SALVAGE EXISTING STREET LIGHT COMPLETE, REMOVE FOUNDATION AND RESTORE PLANTINGS / SIDEWALK TO SURROUNDING CONDITIONS.
- EQUIPMENT OR MATERIAL TO BE REMOVED AND TO BECOME PROPERTY OF THE CONTRACTOR (RESTORE PLANTINGS / SIDEWALK TO SURROUNDING CONDITIONS).
- INSTALL CITY-FURNISHED STREET LIGHT POLE, MAST ARM, AND LUMINAIRE: AMERON TYPE 6B1-21 POLE WITH 6" ARM AND WITH NEW LEOTEK COMFORTVIEWTM NEIGHBORHOOD LED LUMINAIRE, MODEL CV1-H-MV-30K-2R-GY-075-LPCR-WL; FIXTURE TO BE FUSED IN HAND HOLE WITH 5 AMP FUSES. CONSTRUCT MODIFIED CALTRANS TYPE 15 FOUNDATION (MODIFIED WIDTH TO 36" DIAMETER).
- FURNISH AND INSTALL 1 1/2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH CONDUCTORS AS INDICATED. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH CONDUCTORS AS INDICATED. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- EXISTING SERIES CIRCUIT DISCONNECT. DISCONNECT ORANGE AVENUE CIRCUIT. COORDINATE REMOVAL OF EXISTING SERIES SERVICE DISCONNECT WITH EDISON COMPANY SERVICE PLANNER DAN LUCEY AT (714) 895-0548, AT LEAST 48 HOURS PRIOR TO SERVICE DISCONNECT.
- FURNISH AND INSTALL 2" SCHEDULE 40 PVC CONDUIT (30" MINIMUM DEPTH) WITH PULL ROPE. INSTALLATION SHALL BE BY BORING AND JACKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- EXISTING TYPE III-CF 120/240 V DUAL-METERED SERVICE CABINET WITH TYPE V PEC AND THE FOLLOWING:
METER 1:
100 A, 240 V, 2P CB (MAIN)
30 A, 240 V, 2P CB (LTG. MAIN - WEST)
30 A, 240 V, 2P CB (LTG. MAIN - EAST)
30 A, 240 V, 2P CB (ORANGE NORTH)
30 A, 240 V, 2P CB (ORANGE SOUTH)
15 A, 120 V, 1P CB (PEU)
2-40 A, 240 V, 4P CONTACTOR
METER 2:
100 A, 240 V, 2P CB (MAIN)
30 A, 120 V, 1P CB (FESTIVAL A)
30 A, 120 V, 1P CB (FESTIVAL B)
30 A, 120 V, 1P CB (PEU)
- EXISTING TYPE III-BF 120/240 V METERED SERVICE CABINET WITH TYPE V PEC AND THE FOLLOWING:
100 A, 240 V, 2P CB (MAIN)
2-30 A, 240 V, 2P CB (LIGHTS)
30 A, 240 V, 2P CB (BLANK)
15 A, 120 V, 1P CB (PEU)
2-40 A, 240 V, 4P CONTACTOR
INSTALL THE FOLLOWING:
30 A, 240 V, 2P CB (STREET LIGHTING - ORANGE AVE.)
- TRIM TREE BRANCHES 5' CLEAR OF STREET LIGHT POLE AND MAST ARM (WORK TO BE DONE BY CITY FORCES)
- INSTALL NEW CONDUCTORS IN EXISTING CONDUIT AS NOTED.

LEGEND

- EXISTING STREET LIGHT
- EXISTING STREET LIGHT (TO BE REMOVED)
- PROPOSED STREET LIGHT WITH MAST ARM
- CIRCUIT NO. LIGHT NO.
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING SIGN
- NEW SIGN (AND POST IF NECESSARY)
- EXISTING PULL BOX
- NEW PULL BOX (PB)
- EXISTING STREET LIGHTING SERVICE CABINET
- EXISTING STREET LIGHTING CONDUIT
- EXISTING STREET LIGHTING CONDUIT (TO BE ABANDONED)
- NEW STREET LIGHTING CONDUIT WITH CONDUCTORS
- N.T.S. NOT TO SCALE
- R/W RIGHT OF WAY
- SNS STREET NAME SIGN
- SLPB STREET LIGHTING PULL BOX



Underground Service Alert



Call: 811

TWO WORKING DAYS BEFORE YOU DIG

PLAN PREPARED BY:

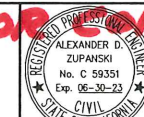
FPL and Associates, Inc.

Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
(949) 252-1688

REVISIONS

REV.	DATE	BY	DESCRIPTION	APP'D

NOT FOR CONSTRUCTION



PREPARED UNDER THE SUPERVISION OF

ALEXANDER D. ZUPANSKI
R.C.E. NO.: 59351 EXP. DATE: 6/30/23
REVIEWED BY:

TRANSPORTATION ENGINEERING
DATE:

DRAWN BY: K. MILLER 06/19/21
DESIGNED BY: H. TRINH 08/19/21
CHECKED BY: A. ZUPANSKI 08/19/21



**STREET LIGHTING MODIFICATION PLAN
ORANGE AVENUE
8TH STREET TO 11TH STREET**

SHEET NO.

4

OF

4