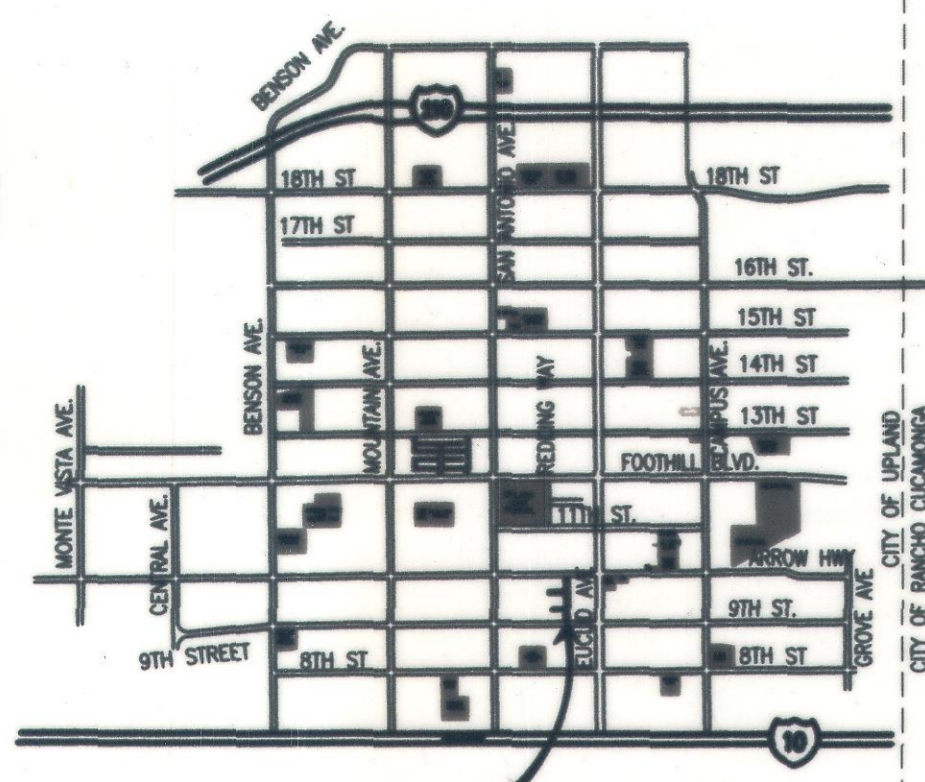


# CITY OF UPLAND

## PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147 ALPINE STREET, VERNON DRIVE AND PALM AVENUE REHABILITATION AND WATER IMPROVEMENTS

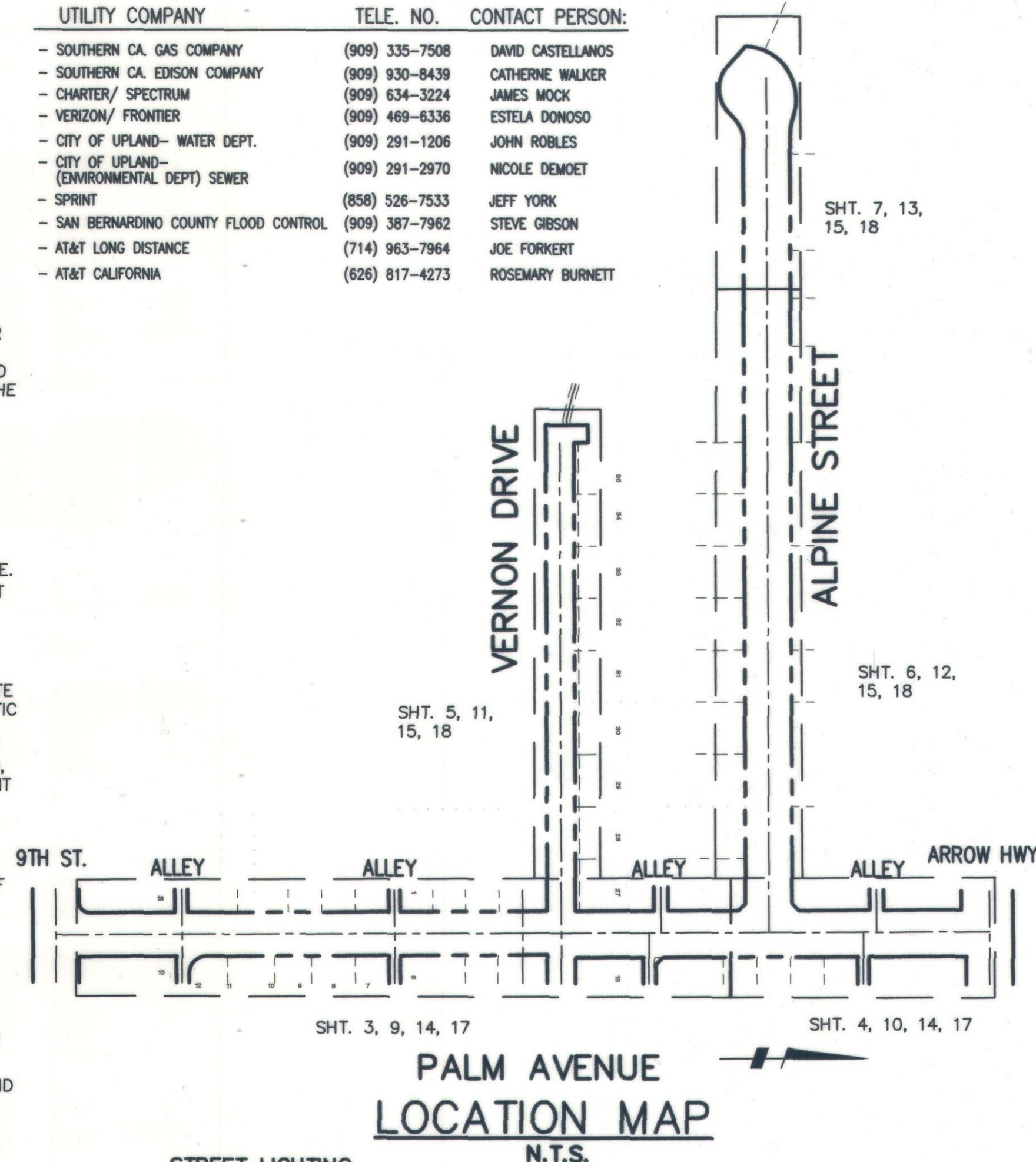


**PROJECT LOCATION**  
**VICINITY MAP**  
N.T.S.

### GENERAL NOTES FOR STREET IMPROVEMENT

- ALL WORK CALLED FOR ON THE PLANS SHALL COMPLY WITH CURRENT CITY OF UPLAND STANDARD SPECIFICATIONS, ADOPTED BY CITY COUNCIL, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
- THE CONTRACTOR, BEFORE UNDERTAKING ANY GRADING OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE PUBLIC RIGHT OF WAY MUST FIRST OBTAIN A CONSTRUCTION PERMIT FROM THE PUBLIC WORKS DEPARTMENT.
- A TEMPORARY STREET CLOSURE PERMIT IS REQUIRED WHEN THE WORK IMPEDES VEHICULAR OR PEDESTRIAN TRAFFIC. PLEASE NOTE THAT CITY COUNCIL RESOLUTION NUMBER 1656, WHICH DEALS WITH THE PROMPT RESTORATION OF CITY STREETS DAMAGED DURING CONSTRUCTION, AND CHAPTER 12.09 OF THE UPLAND MUNICIPAL CODE WILL BE ENFORCED IN ALL CASES WHERE THE PROVISIONS ARE APPLICABLE.
- INSPECTION BY THE CITY OF THE WORK CALLED FOR ON THE PLANS DOES NOT, IN ANY WAY, RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO PERFORM WORK IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- REQUESTS FOR DEVIATIONS FROM THE APPROVED PLANS (EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS), SHALL BE MADE IN WRITING AND ARE NOT TO BE INITIATED UNLESS OR UNTIL THEY ARE APPROVED BY THE PUBLIC WORKS DIRECTOR OR A REPRESENTATIVE ACTING SPECIFICALLY UPON HER INSTRUCTIONS.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM CITY OF UPLAND DATUM PLANE.
- QUANTITIES, AS SHOWN ON THE PLANS ARE ESTIMATED, AND THE CONTRACTOR IS ADVISED THAT FINAL QUANTITIES OF MATERIAL AND WORK IN PLACE MAY BE MORE OR LESS THAN THOSE INDICATED ON THE PLANS.
- CONCRETE GUTTERS, ALLEY APPROACHES, DRIVEWAYS OR OTHER CONCRETE WORK THAT IS SUBJECT TO VEHICULAR TRAFFIC, SHALL BE BARRICADED, AND NO VEHICULAR TRAFFIC IS PERMITTED THEREON, FOR AT LEAST SEVEN DAYS FOLLOWING THE PLACEMENT OF THE CONCRETE WORK. WHEN THE GENERAL PROVISIONS CALL FOR CONCRETE WORK TO HAVE VEHICULAR TRAFFIC UPON IT SOONER THAN SEVEN DAYS AFTER PLACEMENT, OR WHEN THE CONTRACTOR FOR CONVENIENCE OF OPERATION SO DESIRES, THE CONCRETE WORK WILL CONTAIN AT LEAST EIGHT SACKS OF CEMENT PER CUBIC YARD, AND SHALL IF SO DIRECTED BY THE ENGINEER, BE USED, AND TRAFFIC WILL BE PERMITTED THEREON SEVENTY-TWO HOURS AFTER PLACING OF SAID EIGHT SACK CONCRETE.
- IRRIGATION LINES WITHIN ANY CITY RIGHT-OF-WAY SHALL HAVE A TWENTY-FOUR INCH MINIMUM COVER FROM FINISH SURFACE; UNLESS SAID IRRIGATION LINE IS ENCASED IN CONCRETE OR BEDDED IN A SPECIAL CONCRETE CRADLE.
- THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE MUNICIPAL CODE AND COMPLIANT WITH ALL APPLICABLE CITY COUNCIL RESOLUTIONS.
- THE LOCATION OF UNDERGROUND UTILITY OR IRRIGATION LINES AS SHOWN ON THE PLANS, IS APPROXIMATE, AND SINCE THE ACTUAL LOCATION MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO CONTACT THE INTERESTED UTILITY OR WATER COMPANY BEFORE EXCAVATING IN THE VICINITY OF ANY SUCH LINES.
- PARKWAY TREES, INSTALLED BY THE CONTRACTOR, SHALL BE PLANTED AND MAINTAINED IN ACCORDANCE WITH CITY OF UPLAND STANDARD DRAWING NUMBER CU-P-9 AND THE APPROVED STREET TREE LIST.
- THE CONTRACTOR, PER THE CITY TRANSPORTATION DIVISION, WILL INSTALL ALL STREET NAME AND TRAFFIC REGULATORY SIGNS INDICATED IN THE PLANS. HIGH INTENSITY REFLECTIVE SHEETING WILL BE REQUIRED.
- UNLESS INDICATED ON THE PLANS ALL STREET LIGHTS SHALL BE INSTALLED BY THE SOUTHERN CALIFORNIA EDISON COMPANY. THE CONTRACTOR SHALL WORK DIRECTLY WITH THE EDISON COMPANY WHEN THE LIGHTS ARE TO BE SERVED FROM ANY UNDERGROUND SYSTEM. WATER DEPARTMENT STANDARD W6-23 DOES APPLY.
- AN APPROVED WEED KILLER SHALL BE APPLIED TO THE PREPARED BASE PRIOR TO ASPHALT PAVING IN ALL AREAS WHERE THERE IS ANY EVIDENCE OF HUMUS OR ORGANIC MATERIAL PRESENT IN THE BASE (EITHER NATIVE OR IMPORTED) MATERIAL. ALL WEED KILLERS USED SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS AND INSTRUCTIONS.
- THE FOLLOWING CITY OF UPLAND STANDARD DRAWINGS APPLY TO THIS PROJECT AND SHALL BE CONSIDERED AS PART OF THESE PLANS: CU-D-1, CU-D-2, CU-P-3, CU-P-4, CU-P-5, CU-P-6, CU-R-2, CU-R-3, CU-S-1, CU-S-6, CU-Z-3, AND W6-23.
- ALL PAVEMENT MARKING (EXCEPT SPEED LIMITS) SHALL BE 3M STAMARK PREFORMED TAPE SERIES 380 OR 420 AND SHALL BE APPLIED PER THE MANUFACTURER'S SPECIFICATIONS.
- ALL TRAFFIC SIGNS SHALL BE CONSTRUCTED WITH HIGH INTENSITY REFLECTIVE SHEETING AND BE INSTALLED ON 2" SQUARE "QUICKPUNCH" POSTS.
- ALL WATER VALVES AND SEWER MANHOLES SHALL REMAIN ACCESSIBLE AND FREE OF DEBRIS THROUGHOUT ALL PHASES OF THE PROJECT.
- INSTALL 3/4" PLYWOOD FALSE BOTTOMS IN ALL SEWER MANHOLES WITHIN THE CONSTRUCTION AREA. CHECK DAILY BY INSPECTOR.
- PROVIDE TRAP AT FIRST MANHOLE DOWNSTREAM OF PROPOSED IMPROVEMENTS. (CHECKED DAILY BY INSPECTOR).

UTILITY COMPANY	TELE. NO.	CONTACT PERSON:
- SOUTHERN CA GAS COMPANY	(909) 335-7508	DAVID CASTELLANOS
- SOUTHERN CA EDISON COMPANY	(909) 930-8439	CATHERINE WALKER
- CHARTER/ SPECTRUM	(909) 634-3224	JAMES MOOK
- VERIZON/ FRONTIER	(909) 469-6336	ESTELA DONOSO
- CITY OF UPLAND- WATER DEPT.	(909) 291-1206	JOHN ROBLES
- CITY OF UPLAND- (ENVIRONMENTAL DEPT) SEWER	(909) 291-2970	NICOLE DEMOET
- SPRINT	(858) 526-7533	JEFF YORK
- SAN BERNARDINO COUNTY FLOOD CONTROL	(909) 387-7962	STEVE GIBSON
- AT&T LONG DISTANCE	(714) 963-7964	JOE FORKERT
- AT&T CALIFORNIA	(626) 817-4273	ROSEMARY BURNETT



**PALM AVENUE LOCATION MAP**  
N.T.S.

**GENERAL TECHNOLOGIES & SOLUTIONS.**  
1055 W. 7TH STREET, SUITE 3300  
LOS ANGELES, CA 90017  
(213) 267-2332  
Rawad Hani, RCE 83730

**GEOTECHNICAL REPORT:**  
**ATLAS (SCS&T)**  
6280 RIVERDALE STREET  
SAN DIEGO, CA 92120  
(619) 280-4321  
SCS&T REPORT No. 200285P6  
Reza Saeedzadeh, RCE 87885

**DESIGN SURVEY ON-POINT SURVEYING**  
1906 ORANGE TREE LANE, SUITE 240  
REDLANDS, CA 92374  
(909) 792-2221  
Tony Smith, LS 8133

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

**UNAUTHORIZED CHANGES & USES:**  
CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

### PLAN INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS, CONSTRUCTION NOTES, & DETAILS
<b>STREET IMPROVEMENT PLANS</b>	
3	PALM AVENUE, FROM 9TH STREET TO STA 19+50.00
4	PALM AVENUE, FROM STA 19+50.00 TO ARROW HWY.
5	VERNON DRIVE, FROM PALM AVENUE TO WLY CDS.
6	ALPINE STREET, FROM PALM AVENUE TO STA 29+00.00
7	ALPINE STREET, FROM STA 29+00.00 TO WLY CDS.
<b>WATER IMPROVEMENT PLANS</b>	
8	WATER GENERAL NOTES, DETAILS & CONSTRUCTION NOTES.
9	PALM AVENUE, LINE A FROM 9TH STREET TO STA 19+00.00
10	PALM AVENUE, LINE A FROM STA 19+00.00 TO ARROW HWY.
11	VERNON DRIVE, LINE B FROM PALM AVENUE TO WLY CDS.
12	ALPINE STREET, LINE C FROM PALM AVENUE TO STA 18+50.00
13	ALPINE STREET, LINE C FROM STA 18+50.00 TO WLY CDS.
<b>STRIPING &amp; SIGNAGE PLANS</b>	
14	PALM AVENUE, FROM 9TH STREET TO ARROW HWY.
15	VERNON DRIVE, FROM PALM AVENUE TO WLY CDS. ALPINE STREET, FROM PALM AVENUE TO WLY CDS.
<b>STREET LIGHTING PLANS</b>	
16	GENERAL NOTES, LEGEND AND FIXTURE SCHEDULE.
17	STREET LIGHTING PLAN- PALM AVENUE
18	ELECTRICAL DETAILS

### ABBREVIATIONS

A.C.	ASPHALT CONCRETE
B.C.R.	BEGINNING OF CURB RETURN
B.C.	BEGINNING OF CURVE
B.F.	BOTTOM OF WALL FOOTING
BUR. CBL.	BURIED CABLE
CLR	CENTERLINE
CONC.	CONCRETE
C.I.P.	CAST IRON PIPE
D.I.P.	DUCTILE IRON PIPE
DGAC	DENSE, GRADED ASPHALT CONCRETE
DWG.	DRAWING
E.P.B.	ELECTRICAL PULL BOX
E.R.M.	ELECTRICAL RISER AND METER
ELEC.	ELECTRICAL
EXIST.	EXISTING
FL	FLOWLINE
FS	FINISHED SURFACE
G	GAS
I.D.	INSIDE DIAMETER
INV.	INVERT
IRR.	IRRIGATION WATER LINE
L	LENGTH
L.F.	LINEAR FEET
MH	MANHOLE
MWD	METROPOLITAN WATER DISTRICT
MOC	MIDDLE OF CURVE
P.C.C.	POINT OF COMPOUND CURVE
PE	POLYETHYLENE
P.I.	POINT OF INTERSECTION
PL (OR R)	PROPERTY LINE
P.P.	POWER POLE
P.R.C.	POINT OF REVERSE CURVATURE
PVC	POLYVINYL CHLORIDE
P.V.I.	POINT OF VERTICAL INTERSECTION
R	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
S	SEWER
S=	SLOPE IN FEET PER FOOT
SD	STORM DRAIN
STA.	STATION
STD.	STANDARD
STL.	STEEL
T	TANGENT LENGTH
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
TEL.	TELEPHONE
T.P.	TOP OF PIPE
V.C.P.	VITRIFIED CLAY PIPE
E.C.	END OF CURVE
L.V.C.	LENGTH OF VERTICAL CURVE
(XXX.XX FS)	EXISTING FINISHED SURFACE ELEVATION
XX.XX FS	PROPOSED FINISHED SURFACE ELEVATION

### LEGEND

1000	STREET ADDRESS
(Symbol)	VALVE ASSEMBLY
(Symbol)	BLOW-OFF ASSEMBLY
(Symbol)	MANHOLE
(Symbol)	EXISTING STORM DRAIN
(Symbol)	EXISTING WATER MAIN
(Symbol)	EXISTING SEWER LINE
(Symbol)	EXISTING POWER OR TELEPHONE POLE
(Symbol)	EXISTING ANCHOR OR GUY
(Symbol)	PROPERTY OR EASEMENT BOUNDARY
(Symbol)	EXISTING FENCE
(Symbol)	ELECTRICAL
(Symbol)	GAS LINE
(Symbol)	TELEPHONE LINE
(Symbol)	DAYLIGHT LINE
(Symbol)	EXISTING STORM DRAIN MANHOLE
(Symbol)	EXISTING SEWER MANHOLE
(Symbol)	EX. SURVEY MONUMENT
(Symbol)	EXISTING WATER VALVE
(Symbol)	ASPHALT CONCRETE
(Symbol)	P.C.C. CONCRETE

### ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND APPROXIMATE LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES OR STRUCTURES EXCEPT AS SHOWN IN THESE PLANS. THE ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITIES OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK ON EXCAVATION TO DETERMINE EXACT LOCATION OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION OF THESE LINES.

THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.), PHONE NUMBER 811, TWO WORKING DAYS PRIOR TO DIGGING. NO CONSTRUCTION PERMIT, ISSUED BY THE PUBLIC WORKS DEPARTMENT, SHALL BE VALID INVOLVING UNDERGROUND FACILITIES, UNLESS THE APPLICANT HAS AN INQUIRY IDENTIFICATION NUMBER ISSUED BY U.S.A.

### CONTRACTOR'S RESPONSIBILITY FOR SAFETY

IN SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE 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; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE WORKING HOURS; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND WITH "CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' OR SUBCONTRACTORS' COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

### SURVEY MONUMENT NOTE

SURVEY MONUMENTS THAT EXIST AS SHOWN ON RECORDED MAPS, HIGHWAY MAPS OR POINTS THAT PROVIDE SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED OUT BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER (AUTHORIZED TO PRACTICE LAND SURVEYING), AND CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR PRIOR TO THE START OF CONSTRUCTION. THESE CORNER RECORDS SHALL DESCRIBE THE MONUMENTS FOUND WITH THE DISTANCES TO REFERENCE POINTS FOR RESETTING OF THE SURVEY MONUMENT. WHEN CONSTRUCTION IS COMPLETED, MONUMENTS SHALL BE SET AND CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR SHOWING THE NEW MONUMENTS.

### UNDERGROUND SERVICE ALERT

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT (800) 422-4133.

### NOTICE TO THE CONTRACTOR

EXISTING UNDERGROUND STRUCTURES: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT THE EXISTING UTILITY LINES, STRUCTURES, AND SUB-STRUCTURES SHOWN ON THESE PLANS AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR LOCATING AND PROTECTING THE UNDERGROUND UTILITY PIPES, CONDUITS, SUBSTRUCTURES AND SUPER-STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

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

CONTRACTOR SHALL COORDINATE WITH VERIZON, SCWC, VCWD AND GAS COMPANY FOR ADJUSTMENT OF MANHOLES, VAULTS AND ANY SUBSTRUCTURE WITHIN THE PROJECT LIMITS. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.

### STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TITLE	STD. PLAN No.
DRIVEWAY APPROACHES	110-2
CURB RAMP	111-5
CURB & SIDEWALK JOINTS	112-2
SIDEWALK AND DRIVEWAY REPLACEMENT	113-2
CURB AND GUTTER- BARRIER	120-2
CROSS AND LONGITUDINAL GUTTERS	122-2
ALLEY INTERSECTION	130-2
PRECAST CONCRETE SEWER MANHOLE	200-3

### CITY OF UPLAND

TITLE	STD. DWG.
COMBINATION CURB & GUTTER ONLY	CU-R-2

### DATE OF FIELD SURVEY:

JANUARY 2021

### HORIZONTAL CONTROL:

BASIS OF BEARING:  
BEING THE CENTERLINE OF PALM AVENUE BETWEEN ALPINE STREET AND VERNON STREET, BEARING BEING N00°00'20"W PER MB 55/46-47.

### BENCH MARK:

CITY OF UPLAND BM No.: 3A-86  
2" BRASS DISC IN TOP N/W CORNER PCC PLANTER CURB 102' EAST OF CL EUCLID AVENUE AND 24 NORTH OF CL 9TH STREET  
ELEV: 1226.003 (1987) NGVD 1929

### SURVEYOR'S NOTE:

CENTERLINES AND RIGHT OF WAY LINES SHOWN HEREON WERE ESTABLISHED BY RECORD INFORMATION AND DO NOT REPRESENT A RETRACEMENT SURVEY PERFORMED ON THE GROUND. IN AREAS WHERE MAPS WERE NOT AVAILABLE A COMBINATION OF COUNTY GIS DATA AND COUNTY ASSESSOR DATA WAS USED.



**UNDERGROUND SERVICE ALERT**  
OF SOUTHERN CALIFORNIA  
CALL: TOLL FREE  
**811**  
TWO WORKING DAYS BEFORE YOU DIG

ACTUAL CONDITIONS MAY DIFFER. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO BIDDING.  
CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION, AND TO INFORM THE ENGINEER IN CASES OF ANY DISCREPANCIES  
ALL EXISTING UTILITIES SHOWN HEREON ARE BASED ON AVAILABLE RECORD PLANS. PLANS DO NOT REFLECT THE LOCATION OF ANY ABANDONED UTILITIES.

BENCH MARK NO. BM3A-86

LOCATION: PD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET

ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
601 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9000 - FAX 714-617-9974

*Nabil S. Kabbara*  
NABIL S. KABBARA RCE 40812

2-1-2023 DATE

REGISTERED PROFESSIONAL ENGINEER  
NABIL S. KABBARA  
No. C 40812  
EXP. 3-31-2023  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY:	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY:	DEPARTMENT	DATE
CHECKED BY:	PUBLIC WORKS (OPER.)	DATE
RECOMMENDED BY:	PUBLIC WORKS (ENV.)	DATE
	PUBLIC WORKS (WATER)	DATE
	PUBLIC WORKS (TRAF.)	DATE
	FIRE DEPT.	DATE

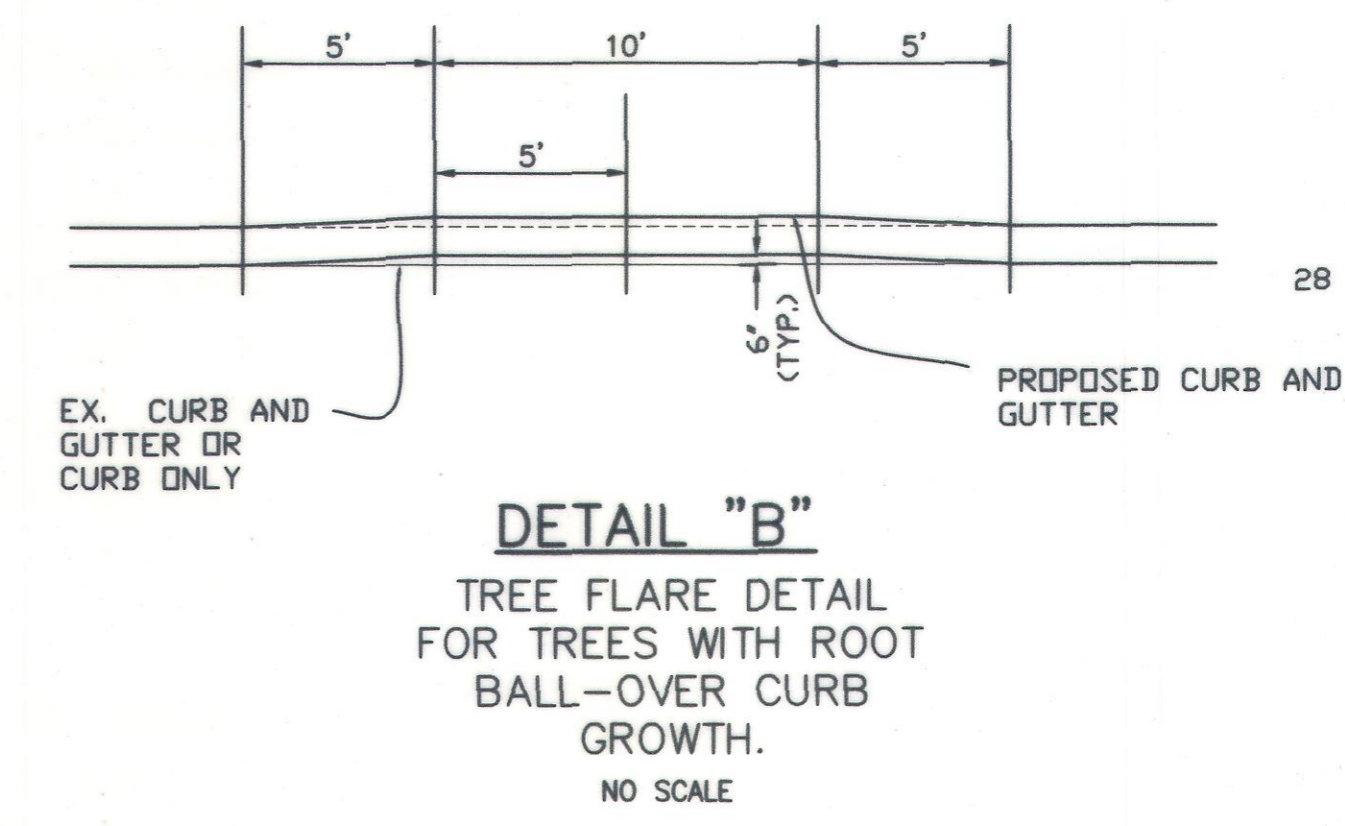
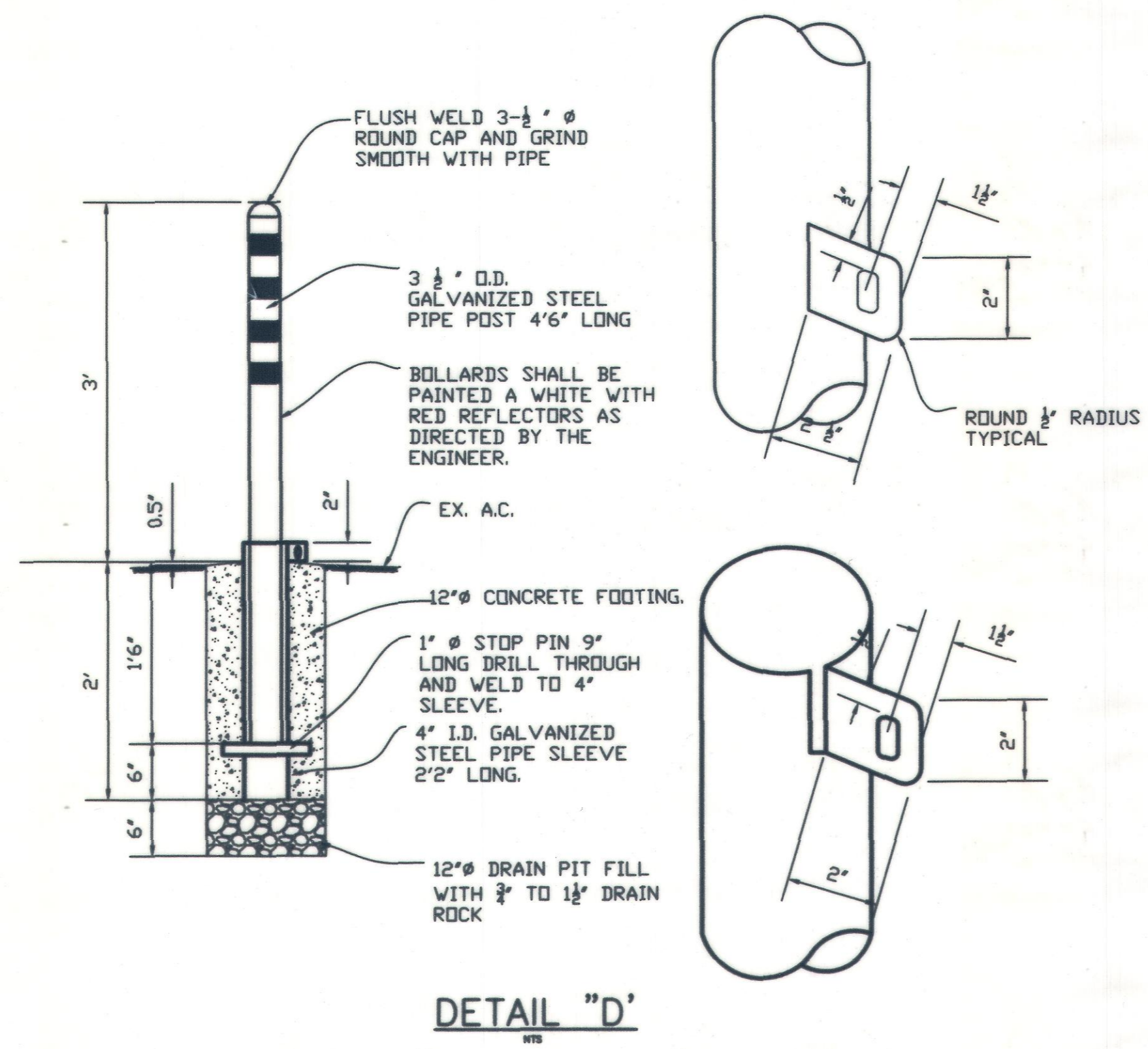
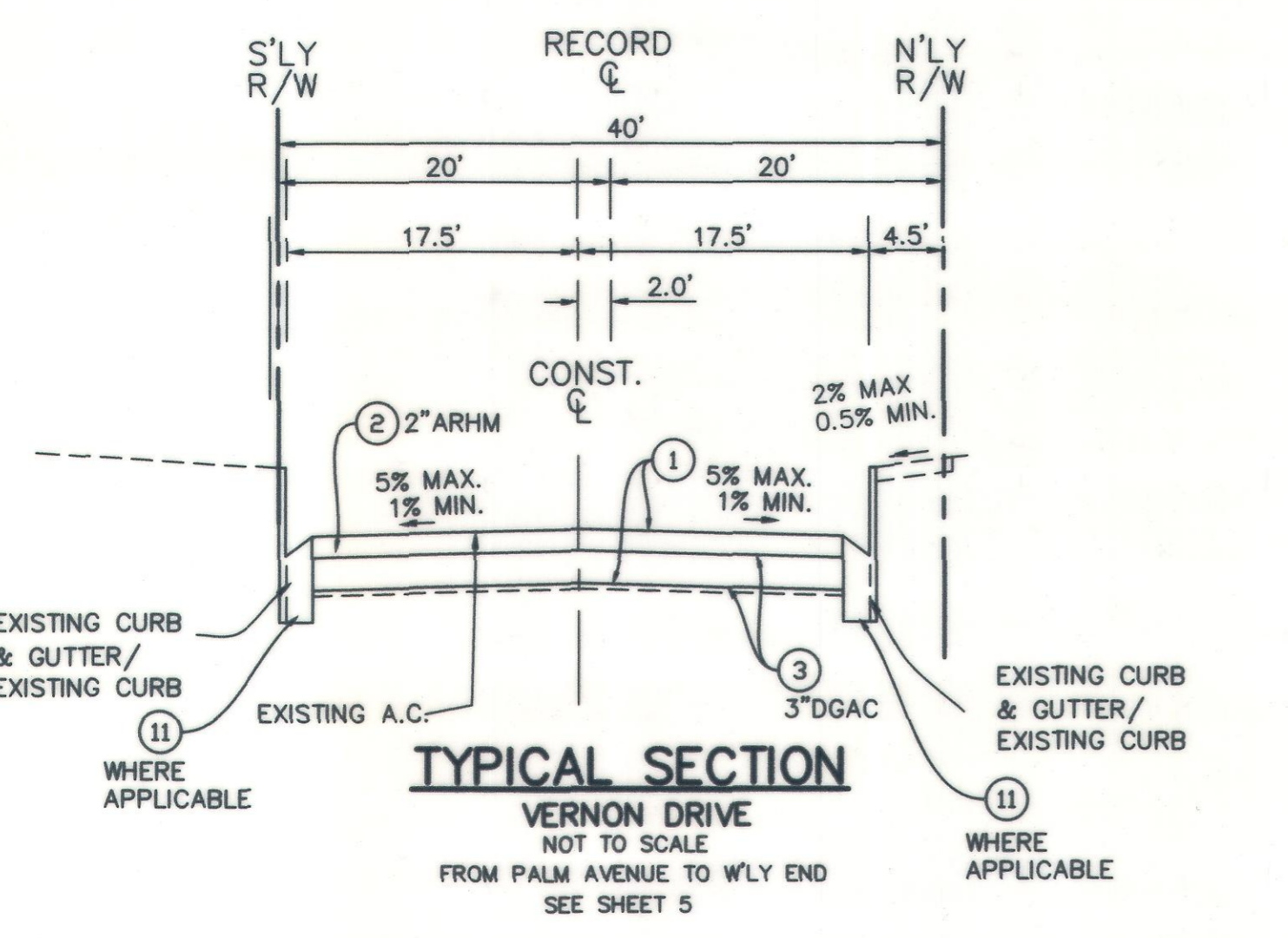
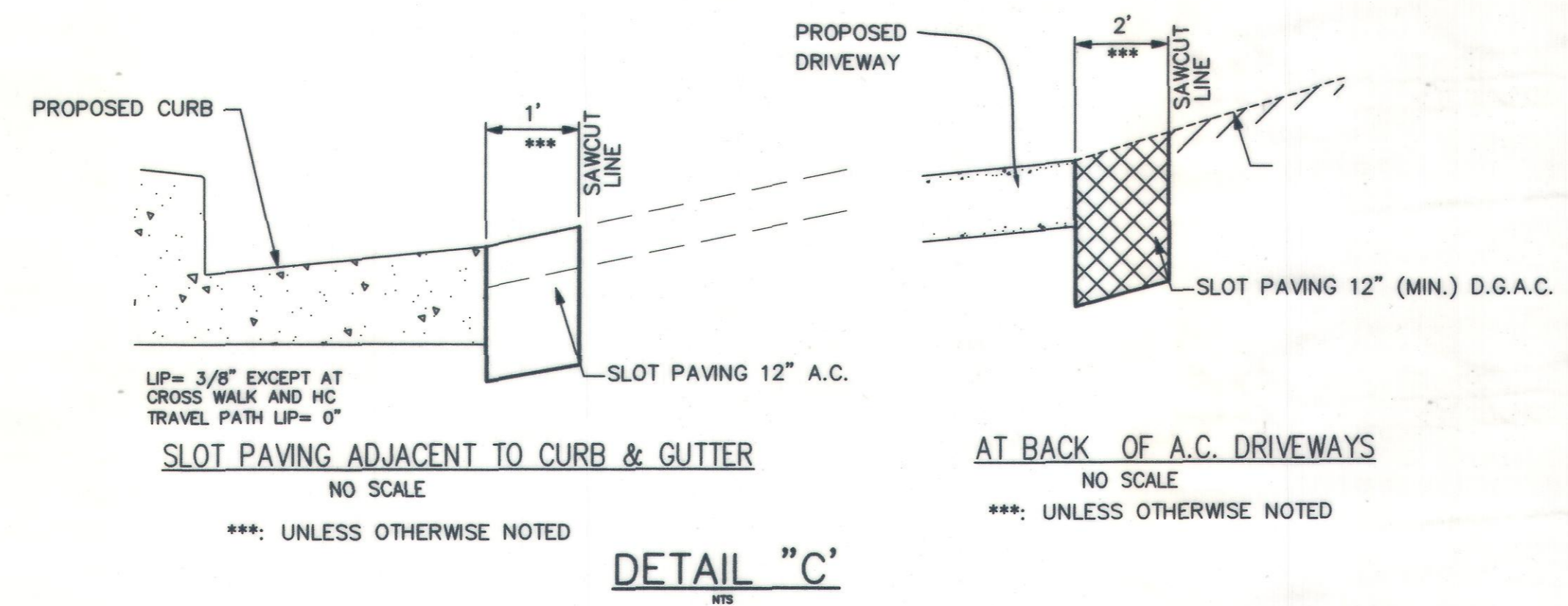
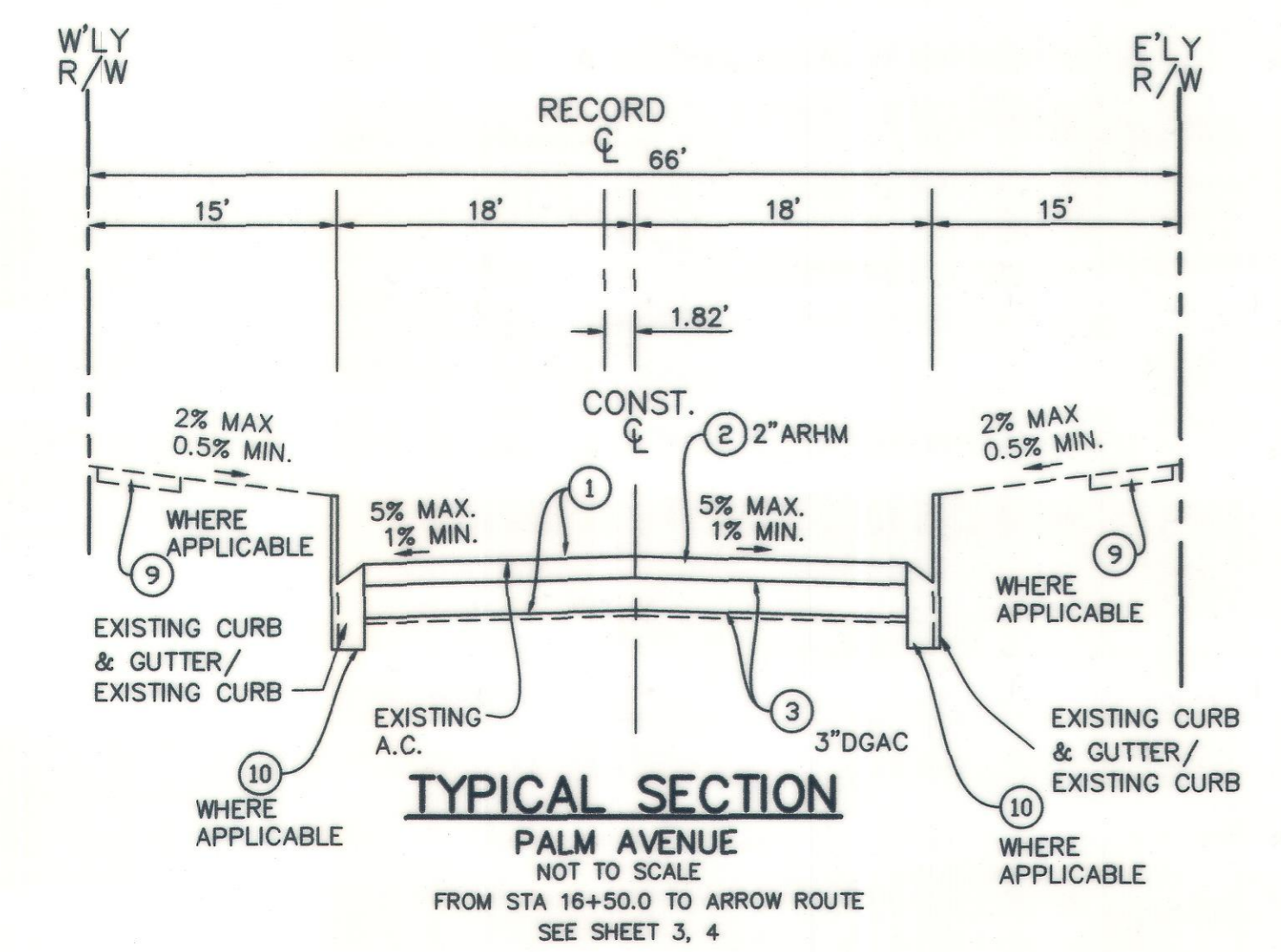
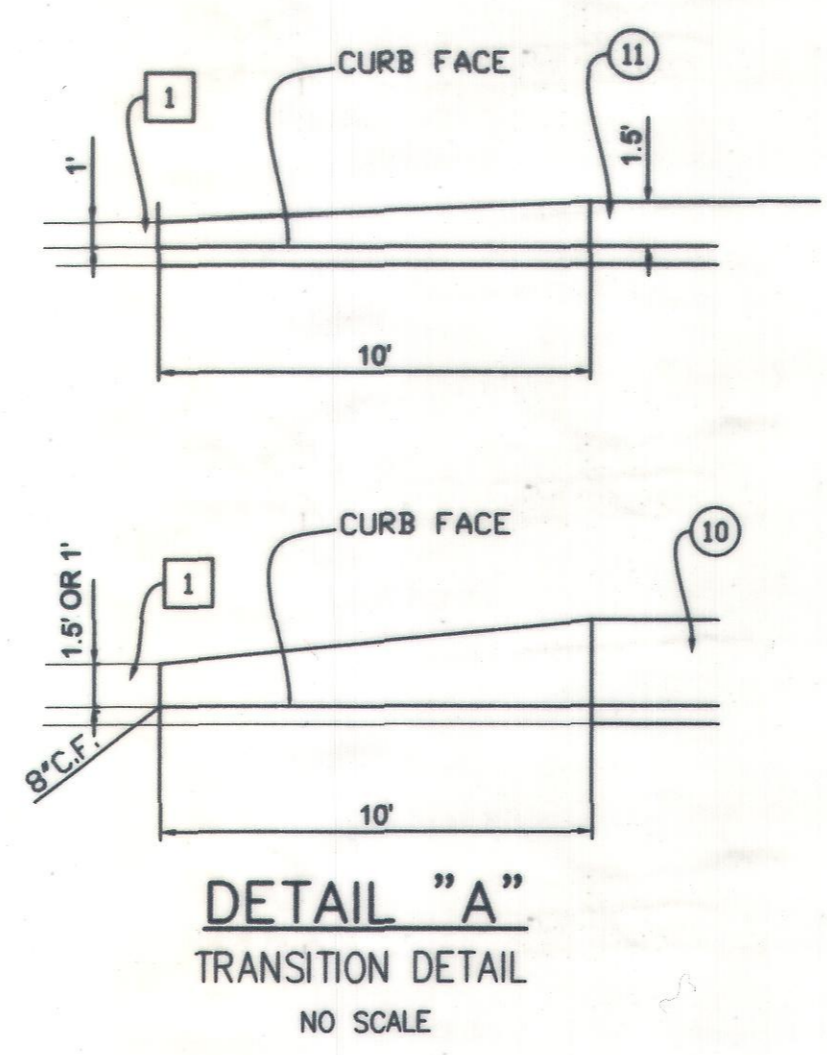
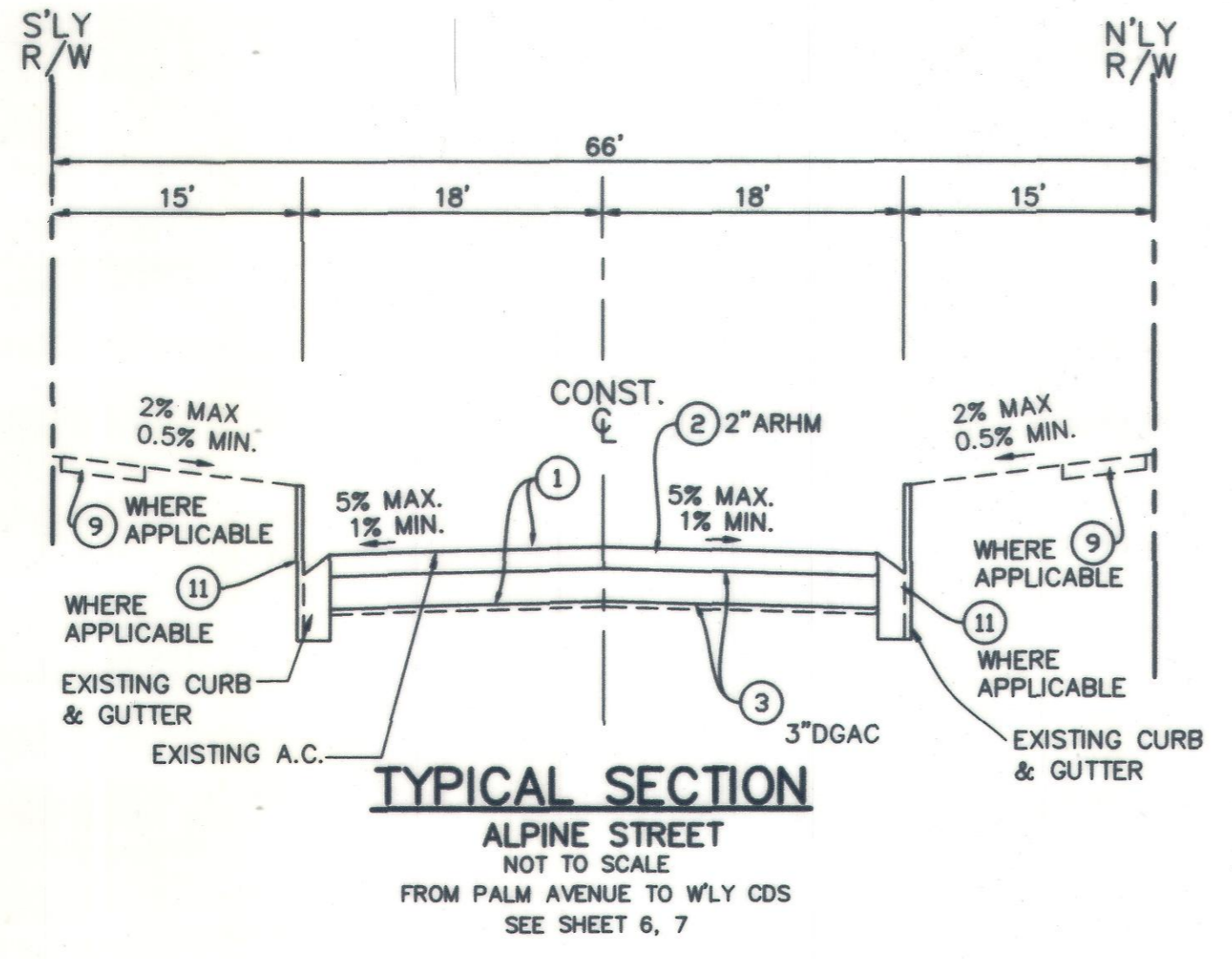
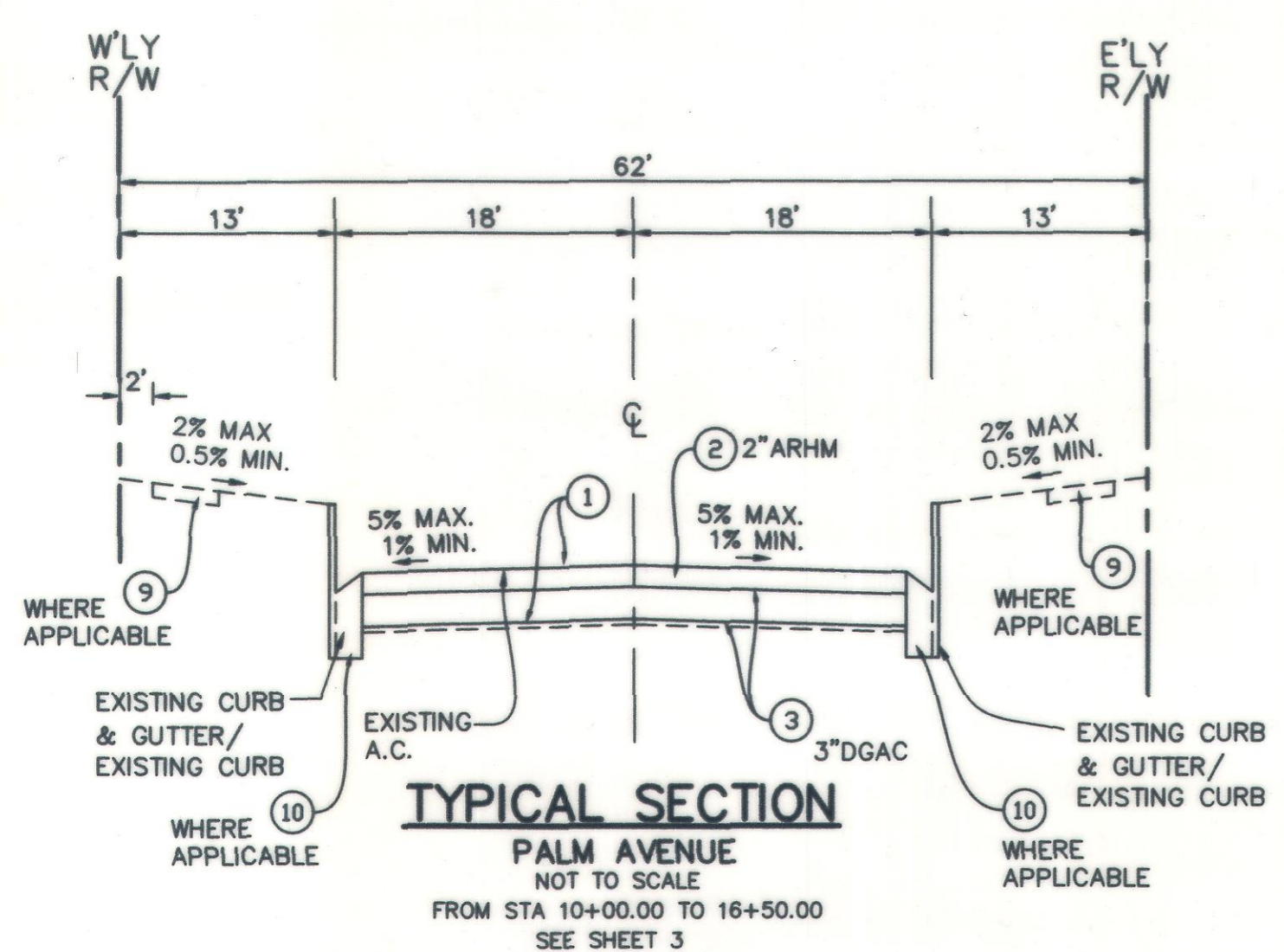
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**CITY OF UPLAND**  
PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**TITLE SHEET**

WATER DRAWING NO. SHEET 1 OF 18 SHEETS DRAWING NO. SI

2-5-23 DATE

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147



GENERAL NOTES FOR EROSION CONTROL PLANS

- IN THE CASE OF EMERGENCY, CALL BOB CRITCHFIELD AT WORK PHONE NUMBER (909)291-2946 OR 24 HOUR PHONE NUMBER (909)376-2258.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- EROSION CONTROL DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY INSPECTOR.
- ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM STREETS, CHECK BERMS, AND BASINS.
- GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
- THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED VEGETATION MUST BE STABILIZED TO INHIBIT EROSION BY WIND AND WATER.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- CONSTRUCTION SITES SHALL BE MAINTAINED BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP) IN SUCH A MANNER THAT POLLUTANTS ARE NOT DISCHARGED FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE.
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER.
- FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- ALL NON-STORMWATER DISCHARGES, UNLESS ACCEPTED OR AUTHORIZED BY AN NPDES PERMIT, REQUIRE PRIOR APPROVAL BY THE STATE WATER RESOURCES CONTROL BOARD.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.

CONSTRUCTION NOTES

- SAWCUT & REMOVE ROADWAY SECTION, & MISC. P.C.C. AS REQUIRED. (THICKNESS PER PLANS & TYP. SECTION).
- CONSTRUCT 2" A.R.H.M. OVERLAY PER TYPICAL SECTION.
- CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW 6" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE C, W & R PER PLAN).
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW 6" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE A OR B, W & X PER PLAN).
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW 4" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE C, W & R PER PLAN).
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW 4" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE A OR B, W & X PER PLAN).
- SAWCUT & REMOVE EX. & CONSTRUCT P.C.C. CURB RAMP PER SPPWC STD PLAN NO. 111-5, WITH RETAINING CURB & FED YELLOW DETECTABLE WARNING DEVICES PER FEDERAL & STATE ADA GUIDELINES (CASE & TYPE PER PLAN).
- SAWCUT & REMOVE EX. & CONSTRUCT NEW 4" P.C.C. SIDEWALK PER SPPWC STD. PLAN No. 112-2.
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW P.C.C. CURB & GUTTER PER SPPWC STD PLAN NO. 120-2 TYPE A2-6 AND CITY OF UPLAND STD. NO. CU-R2. TYPE A (MODIFIED VARIABLE CURB FACE, W=1.5').
- SAWCUT & REMOVE EX. AND CONSTRUCT NEW P.C.C. CURB & GUTTER PER SPPWC STD PLAN NO. 120-2 TYPE A2-8 AND CITY OF UPLAND STD. NO. CU-R2. TYPE C (MODIFIED VARIABLE CURB FACE, W=2').
- SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. ALLEY INTERSECTION PER SPPWC STD. PLAN No. 130-2 (MODIFIED PER PLAN).
- SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. CROSS GUTTER PER SPPWC STD. PLAN No. 122-2 (MODIFIED PER PLAN).
- RESET SURVEY TAGS AND MONUMENTS.
- INSTALL YELLOW DETECTABLE WARNING DEVICES PER FEDERAL & STATE ADA GUIDELINES ON EXISTING RAMP.
- REGRADE PLANTER AND RETROFIT EXISTING IRRIGATION AS REQUIRED.
- SAWCUT & REMOVE EX. AND CONSTRUCT SLOT PAVING PER DETAIL "A" ON SHEET 2 OF PLANS.
- SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. LONGITUDINAL GUTTER PER SPPWC STD. PLAN No. 122-2 (MODIFIED PER PLAN).
- ADJUST WATER VALVE CAN AND COVER TO GRADE.
- ADJUST MANHOLE FRAME & COVER TO GRADE.
- REMOVE EXISTING TREE AND ROOTS
- REMOVE EXISTING BOLLARD AND FOOTING AND INSTALL REMOVABLE BOLLARD PER DETAIL D ON SHEET 2 OF PLANS AND RESTORE SURFACE AND STRIPING.
- RECONNECT CURB DRAIN.
- REMOVE EXISTING FENCE AND CONSTRUCT NEW 6' WOODEN FENCE (DOUBLE SIDED AND PAINTED) PER CITY STDS. REMOVE EXISTING BUSHES, RELOCATE 2 SMALL TREES AND PLACE FABRIC, ROCK AND PAVERS (SIMILAR TO VERNON).

SEWER CONSTRUCTION NOTES

- REMOVE EXISTING MANHOLE AND CONSTRUCT NEW MANHOLE PER SPPWC STD. PLAN No. 200-3 AND RECONNECT EXISTING SEWER PIPES TO NEW MANHOLE.

DISPOSITION NOTES

- PROTECT IN PLACE
- TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).
- TO BE REMOVED BY OTHERS

LEGEND:

- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390 STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.

BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-8974

*Nabil S. Kabbara*  
 NABIL S. KABBARA RCE 40812

2-4-2023 DATE

DRAWN BY:	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY:	DEPARTMENT	
CHECKED BY:	PUBLIC WORKS (OPER.)	
RECOMMENDED BY:	PUBLIC WORKS (ENV.)	
	PUBLIC WORKS (WATER)	
	PUBLIC WORKS (TRAF.)	
	FIRE DEPT.	

2-8-23 DATE

RECOMMENDED BY: *[Signature]*

RECOMMENDED BY: *[Signature]*

ENGINEERING DEVELOPMENT SERVICES

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

**TYPICAL SECTIONS, CONSTRUCTION NOTES & DETAILS**

WATER DRAWING NO. SHEET 2 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**CONSTRUCTION NOTES**

- 1 SAWCUT & REMOVE ROADWAY SECTION, & MISC. P.C.C. AS REQUIRED. (THICKNESS PER PLANS & TYP. SECTION).
- 2 CONSTRUCT 2" A.R.H.M. OVERLAY PER TYPICAL SECTION.
- 3 CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
- 5 SAWCUT & REMOVE EX. AND CONSTRUCT NEW 6" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE A OR B, W & X PER PLAN).
- 6 SAWCUT & REMOVE EX. AND CONSTRUCT NEW 4" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE C, W & R PER PLAN).
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- 12 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. ALLEY INTERSECTION PER SPPWC STD. PLAN NO. 130-2 (MODIFIED PER PLAN).
- 13 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. CROSS GUTTER PER SPPWC STD. PLAN NO. 122-2 (MODIFIED PER PLAN).
- 14 RESET SURVEY TAGS AND MONUMENTS.
- 15 INSTALL YELLOW DETECTABLE WARNING DEVICES PER FEDERAL & STATE ADA GUIDELINES ON EXISTING RAMP.
- 16 REGRADE PLANTER AND RETROFIT EXISTING IRRIGATION AS REQUIRED.
- 17 SAWCUT & REMOVE EX. AND CONSTRUCT SLOT PAVING PER DETAIL "A" ON SHEET 2 OF PLANS.
- 18 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. LONGITUDINAL GUTTER PER SPPWC STD. PLAN NO. 122-2 (MODIFIED PER PLAN).
- 22 REMOVE EXISTING BOLLARD AND FOOTING AND INSTALL REMOVABLE BOLLARD PER DETAIL D ON SHEET 2 OF PLANS AND RESTORE SURFACE AND STRIPING.
- 24 REMOVE EXISTING FENCE AND CONSTRUCT NEW 6' WOODEN FENCE (DOUBLE SIDED AND PAINTED) PER CITY STDS. REMOVE EXISTING BUSHES, RELOCATE 2 SMALL TREES AND PLACE FABRIC, ROCK AND PAVERS (SIMILAR TO VERNON).

**SEWER CONSTRUCTION NOTES**

- 30 REMOVE EXISTING MANHOLE AND CONSTRUCT NEW MANHOLE PER SPPWC STD. PLAN NO. 200-3 AND RECONNECT EXISTING SEWER PIPES TO NEW MANHOLE.

**DISPOSITION NOTES**

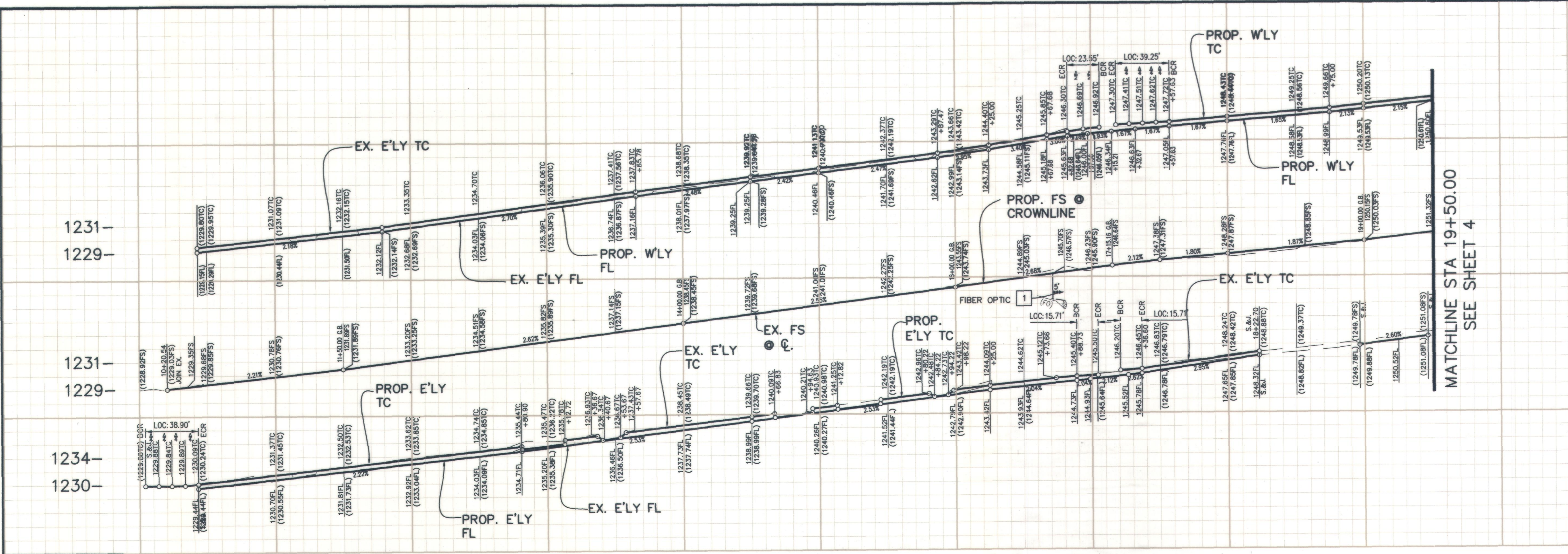
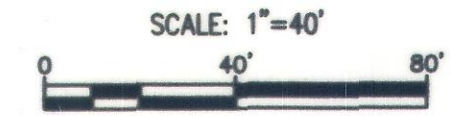
- 1 PROTECT IN PLACE
- 2 TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).

**LEGEND:**

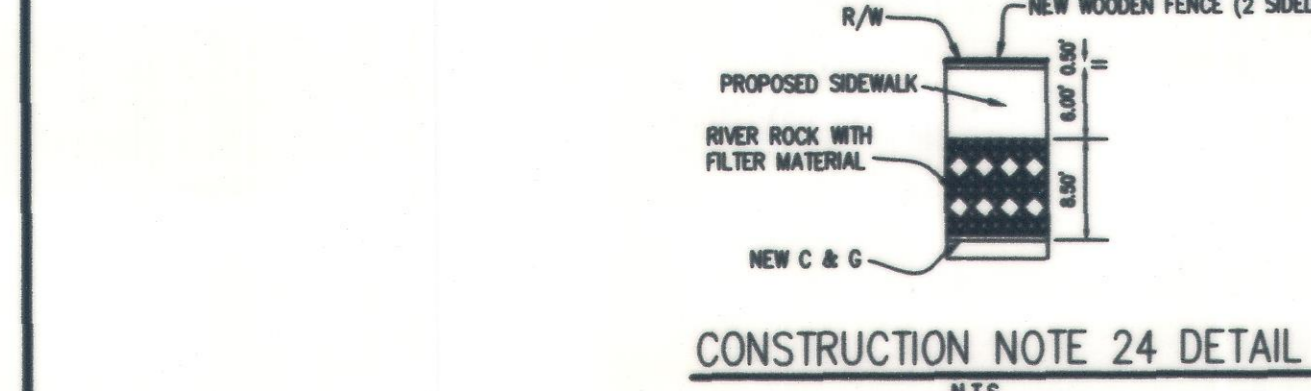
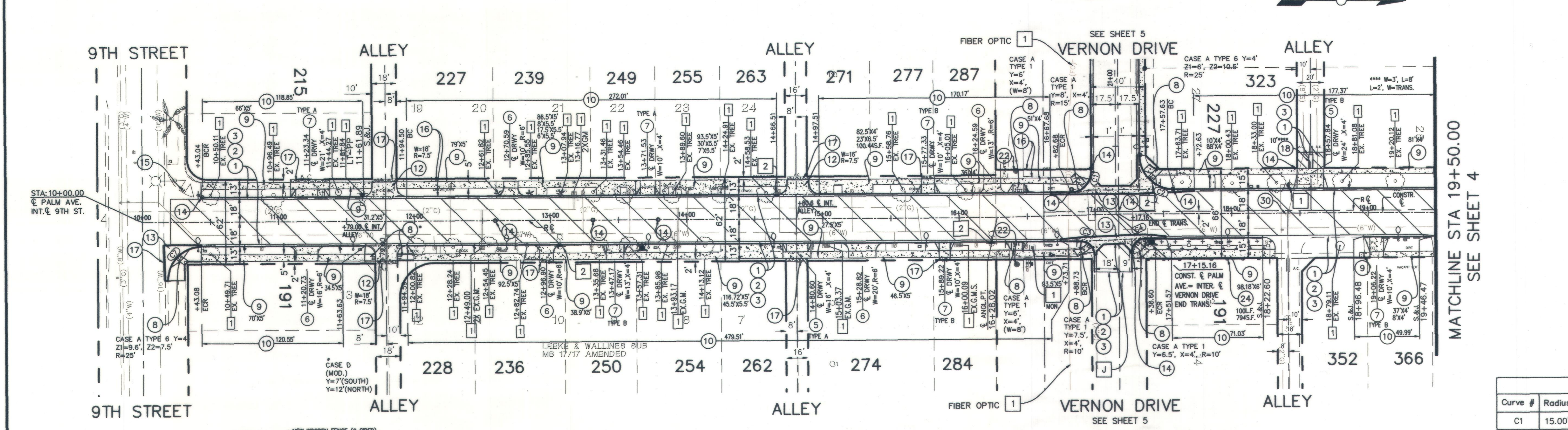
- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390 STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.
- \*\*\*

CONTRACTOR SHALL USE EXTREME CAUTION WHEN CROSSING THE SPRINT FIBER OPTIC DUCTS.

Curve Table			
Curve #	Radius	Delta	Tangent
C1	15.00'	89°57'27"	23.55'
C2	25.00'	89°57'10"	39.25'
C3	10.00'	90°01'26"	15.71'
C4	10.00'	90°00'00"	15.71'
C7	25.00'	89°09'32"	38.90'



PROFILE SCALE  
 VERT: 1 in = 8 ft  
 HORZ: 1 in = 40 ft



CONSTRUCTION NOTE 24 DETAIL  
 N.T.S.

**PALM AVENUE**

ALL SIDEWALK ON PALM AVENUE SHALL HAVE 2'X2' SCORE LINE PER CITY OF UPLAND REQUIREMENTS

SEE SHEET 2 FOR TYPICAL SECTIONS AND DETAILS

BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE

**KABBARA ENGINEERING**  
 600 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-5974

REGISTERED PROFESSIONAL ENGINEER  
 No. C 40812  
 Exp. 3-31-2023  
 CIVIL  
 STATE OF CALIFORNIA  
 DATE 2/1/2023

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: 2-2-23
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
RECOMMENDED BY:	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	RECOMMENDED BY:

CITY OF UPLAND  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 PROJECT NO. 7077  
**PALM AVENUE**  
 FROM 9TH STREET TO STA 19+50.00

CITY OF UPLAND  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 PROJECT NO. 7077  
**PALM AVENUE**  
 FROM 9TH STREET TO STA 19+50.00

WATER DRAWING NO.  
 SHEET 3 OF 18 SHEETS DRAWING NO. SI

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147

**CONSTRUCTION NOTES**

- 1 SAWCUT & REMOVE ROADWAY SECTION, & MISC. P.C.C. AS REQUIRED. (THICKNESS PER PLANS & TYP. SECTION).
- 2 CONSTRUCT 2" A.R.H.M. OVERLAY PER TYPICAL SECTION.
- 3 CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
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- 13 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. CROSS GUTTER PER SPPWC STD. PLAN No. 122-2 (MODIFIED PER PLAN).
- 14 RESET SURVEY TAGS AND MONUMENTS.
- 16 REGRADE PLANTER AND RETROFIT EXISTING IRRIGATION AS REQUIRED.
- 17 SAWCUT & REMOVE EX. AND CONSTRUCT SLOT PAVING PER DETAIL "A" ON SHEET 2 OF PLANS.
- 18 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. LONGITUDINAL GUTTER PER SPPWC STD. PLAN No. 122-2 (MODIFIED PER PLAN).
- 19 ADJUST WATER VALVE CAN AND COVER TO GRADE.
- 21 REMOVE EXISTING TREE AND ROOTS

**SEWER CONSTRUCTION NOTES**

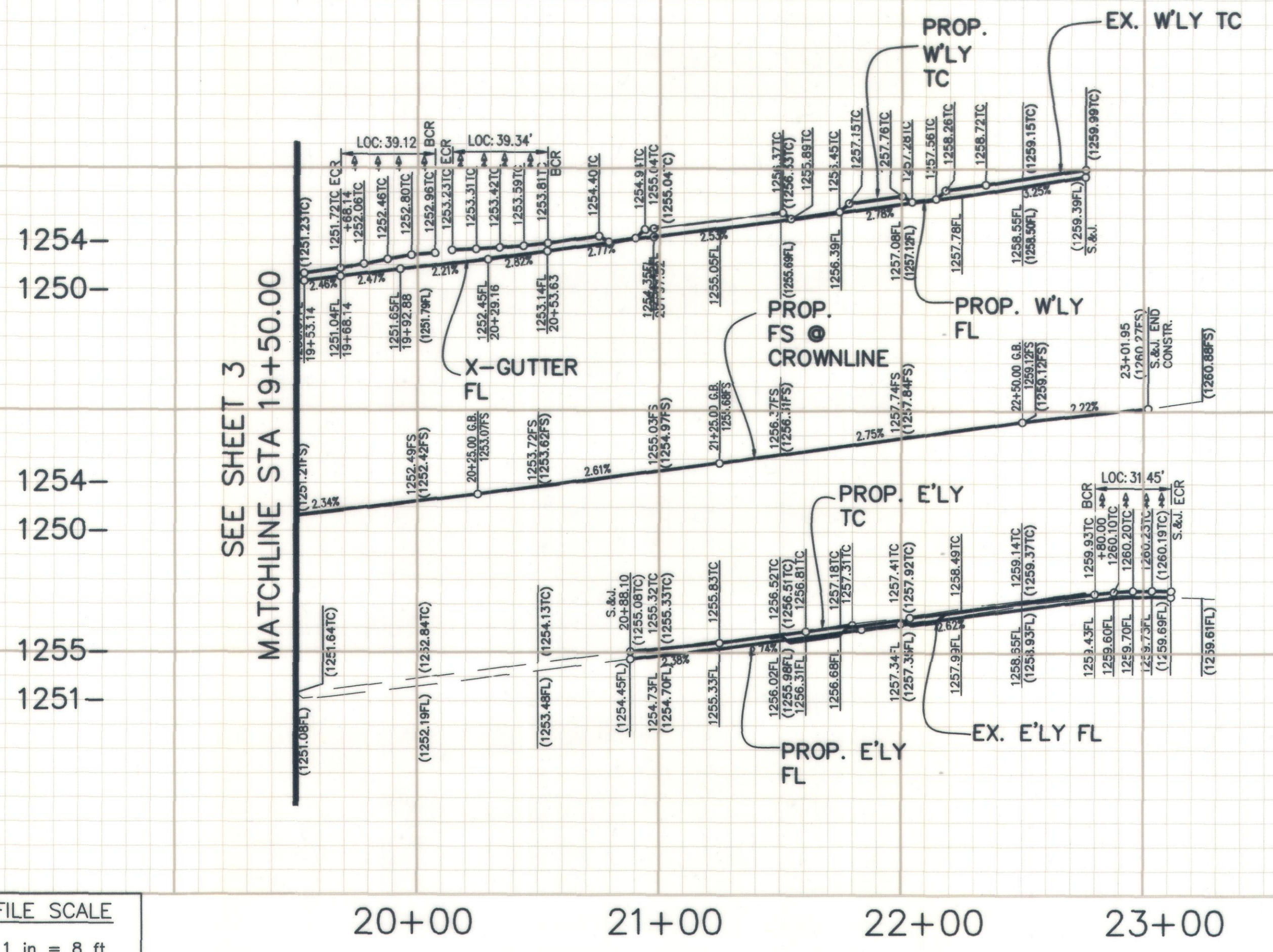
- 30 REMOVE EXISTING MANHOLE AND CONSTRUCT NEW MANHOLE PER SPPWC STD. PLAN No. 200-3 AND RECONNECT EXISTING SEWER PIPES TO NEW MANHOLE.

**DISPOSITION NOTES**

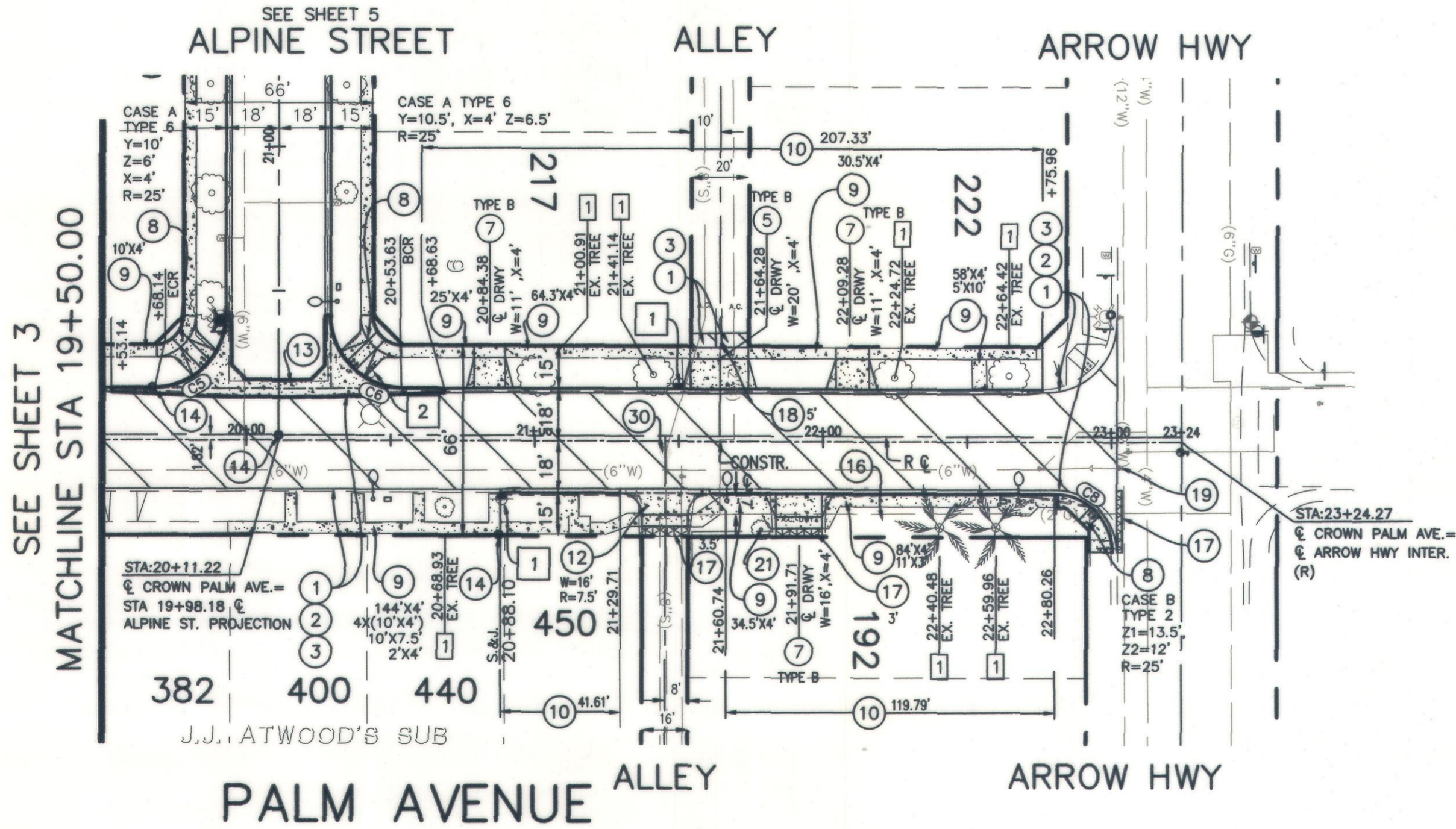
- 1 PROTECT IN PLACE
- 2 TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).

**LEGEND:**

- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390 STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.



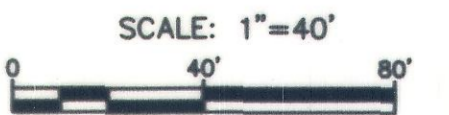
PROFILE SCALE  
 VERT: 1 in = 8 ft  
 HORIZ: 1 in = 40 ft



Curve Table				
Curve #	Radius	Delta	Length	Tangent
C5	25.00'	89°39'31"	39.12'	24.85'
C6	25.00'	90°09'33"	39.34'	25.07'
C8	20.00'	90°05'06"	31.45'	20.03'

ALL SIDEWALK ON PALM AVENUE SHALL HAVE 2'X2' SCORE LINE PER CITY OF UPLAND REQUIREMENTS

SEE SHEET 2 FOR TYPICAL SECTIONS AND DETAILS



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-5974  
 NABIL S. KABBARA RCE 40812  
 2/11/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: 2-6-23
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
RECOMMENDED BY:	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	RECOMMENDED BY:

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 PROJECT No. 7077  
**PALM AVENUE**  
 FROM STA 19+50.00 TO ARROW HWY

WATER DRAWING NO. SHEET 4 OF 18 SHEETS DRAWING NO. SI

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147

**CONSTRUCTION NOTES**

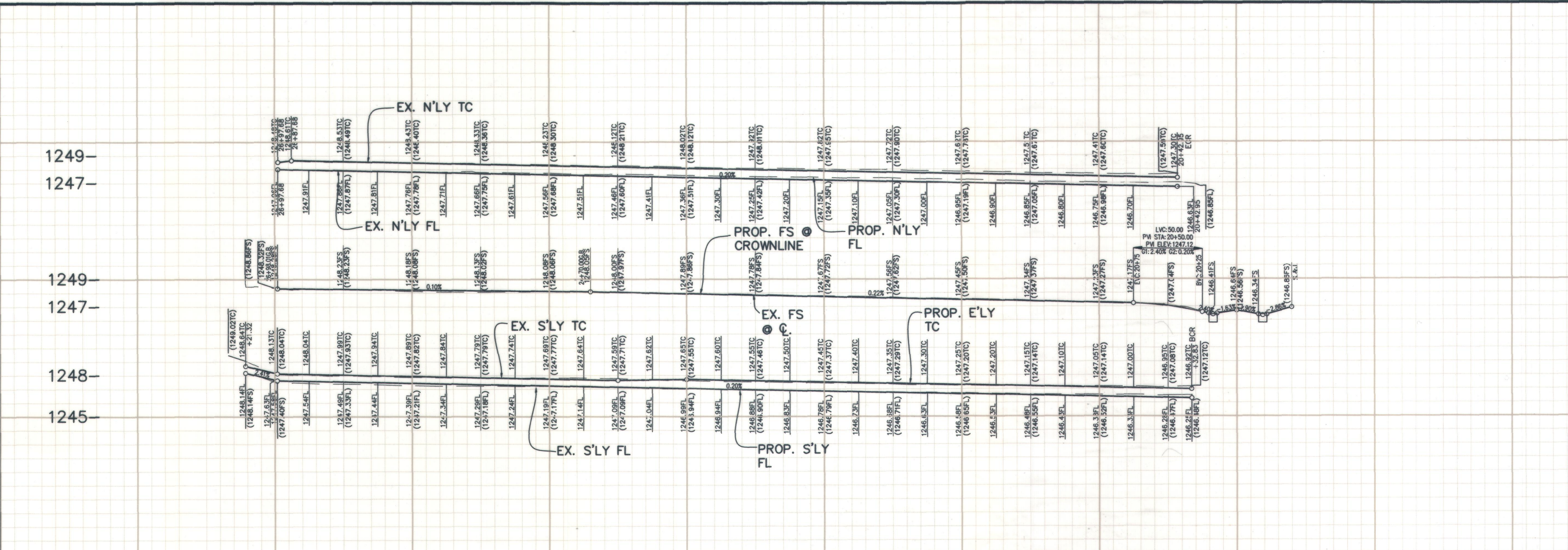
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- 2 CONSTRUCT 2" A.R.H.M. OVERLAY PER TYPICAL SECTION.
- 3 CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
- 9 SAWCUT & REMOVE EX. & CONSTRUCT NEW 4" P.C.C. SIDEWALK PER SPPWC STD. PLAN No. 112-2.
- 11 SAWCUT & REMOVE EX. AND CONSTRUCT NEW P.C.C. CURB & GUTTER PER SPPWC STD PLAN No. 120-2 TYPE A2-8 AND CITY OF UPLAND STD. No. CU-R2. TYPE C (MODIFIED VARIABLE CURB FACE, W=2').
- 13 SAWCUT & REMOVE EX. AND CONSTRUCT P.C.C. CROSS GUTTER PER SPPWC STD. PLAN No. 122-2 (MODIFIED PER PLAN).
- 14 RESET SURVEY TAGS AND MONUMENTS.
- 23 RECONNECT CURB DRAIN.

**DISPOSITION NOTES**

- 1 PROTECT IN PLACE
- 2 TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).

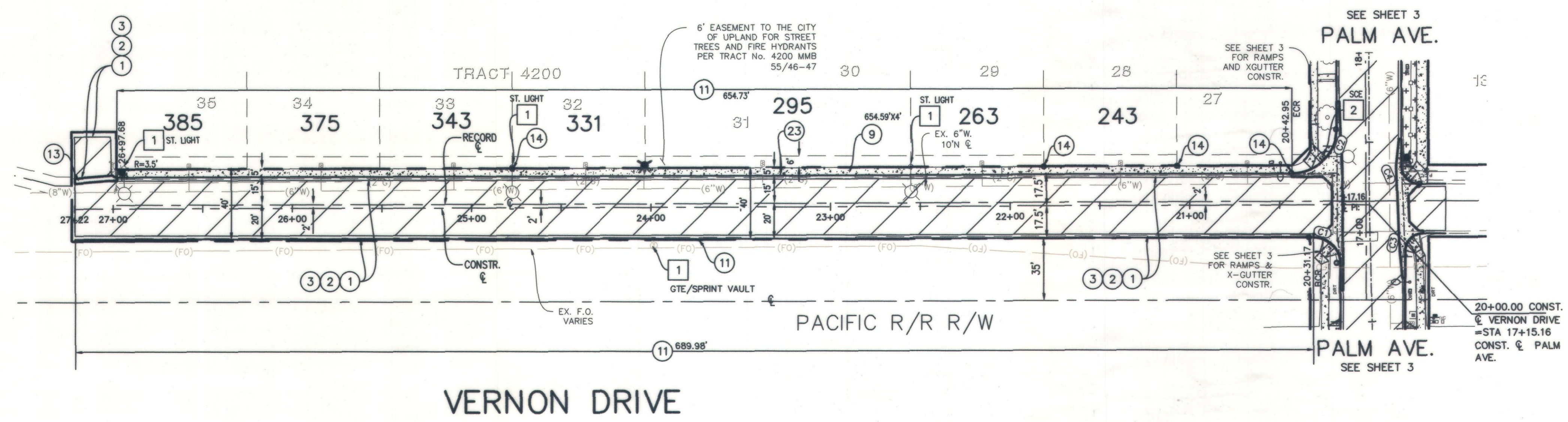
**LEGEND:**

- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390** STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.

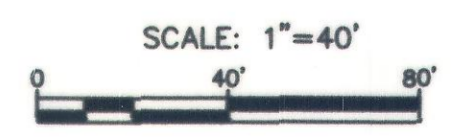


**PROFILE SCALE**  
 VERT: 1 in = 4 ft  
 HORZ: 1 in = 40 ft

27+00 26+00 25+00 24+00 23+00 22+00 21+00 20+00



SEE SHEET 2 FOR TYPICAL SECTIONS AND DETAILS



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-5974

*Nabil S. Kabbara*  
 NABIL S. KABBARA RCE 40812  
 2/1/2023 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 NABIL S. KABBARA  
 No. C 40812  
 Exp. 3-31-2023  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	<i>[Signature]</i> 2-9-23 DATE
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
RECOMMENDED BY:	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	RECOMMENDED BY:


**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 PROJECT No. 7077  
**VERNON DRIVE**  
 FROM PALM AVENUE TO WLY CDS

WATER DRAWING NO.  
 SHEET **5**  
 OF 18 SHEETS  
 DRAWING NO. **SI**

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147

**CONSTRUCTION NOTES**

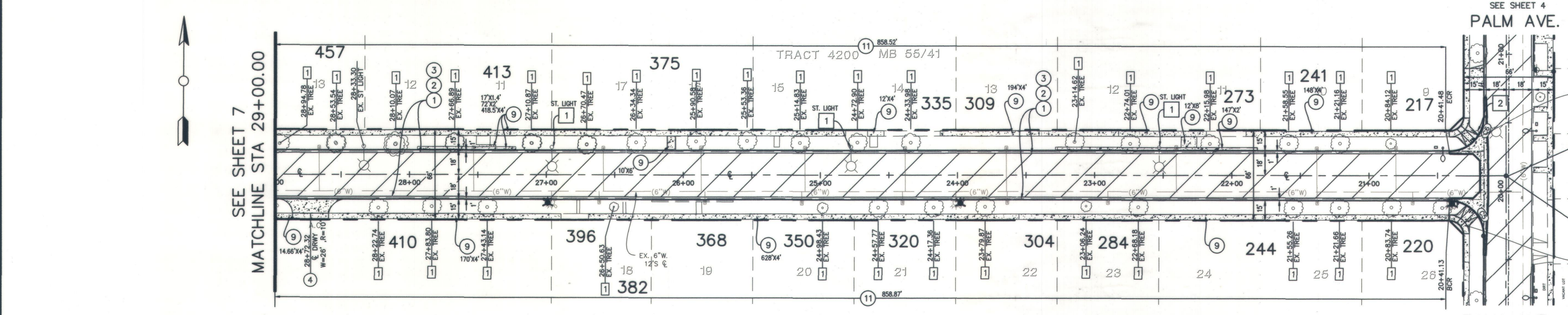
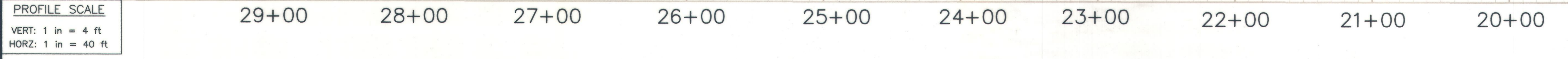
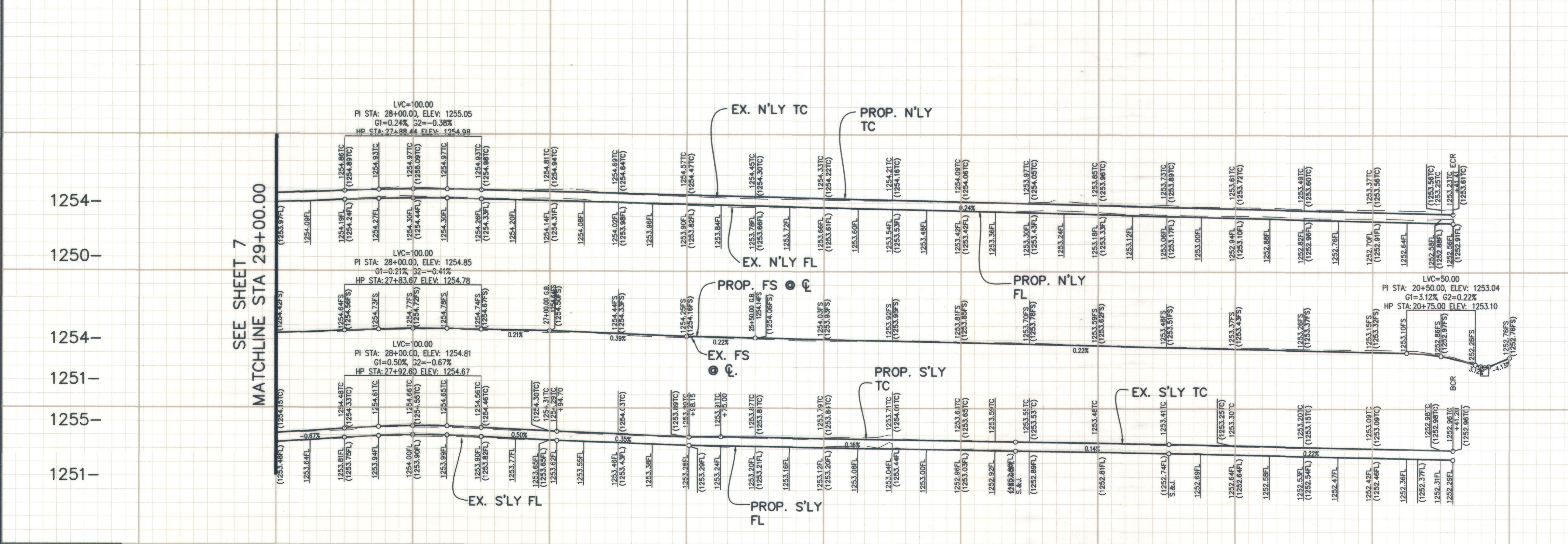
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- 3 CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
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- 11 SAWCUT & REMOVE EX. AND CONSTRUCT NEW P.C.C. CURB & GUTTER PER SPPWC STD PLAN No. 120-2 TYPE A2-8 AND CITY OF UPLAND STD. No. CU-R2. TYPE C (MODIFIED VARIABLE CURB FACE, W=2').

**DISPOSITION NOTES**

- 1 PROTECT IN PLACE
- 2 TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).

**LEGEND:**

- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390 STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.



SEE SHEET 4  
PALM AVENUE.

SEE SHEET 4 FOR RAMPS AND GUTTER CONSTR.

STA: 19+98.18 @ ALPINE ST. = STA 20+11.22 CONST. @ PALM AVENUE.

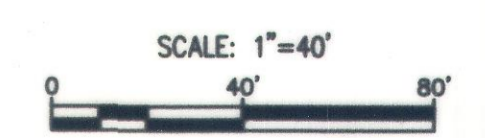
SEE SHEET 4 FOR RAMPS AND GUTTER CONSTR.

STA: 20+00.00 @ ALPINE ST. FD. S&W

SEE SHEET 3  
PALM AVENUE.

**ALPINE STREET**

SEE SHEET 2 FOR TYPICAL SECTIONS AND DETAILS



BENCH MARK NO. BM3A-86  
LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
601 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9400 - FAX 714-617-5974

*Mabil S. Kabbara*  
MABIL S. KABBARA RCE 40812  
2/11/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	<i>[Signature]</i>
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	2.8.23 DATE
RECOMMENDED BY:	PUBLIC WORKS (WATER)	PUBLIC WORKS DIRECTOR / CITY ENGINEER R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	RECOMMENDED BY:


**CITY OF UPLAND**  
PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
PROJECT No. 7076  
**ALPINE STREET**  
FROM PALM AVENUE TO STA 29+00.00

WATER DRAWING NO. SHEET 6 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**CONSTRUCTION NOTES**

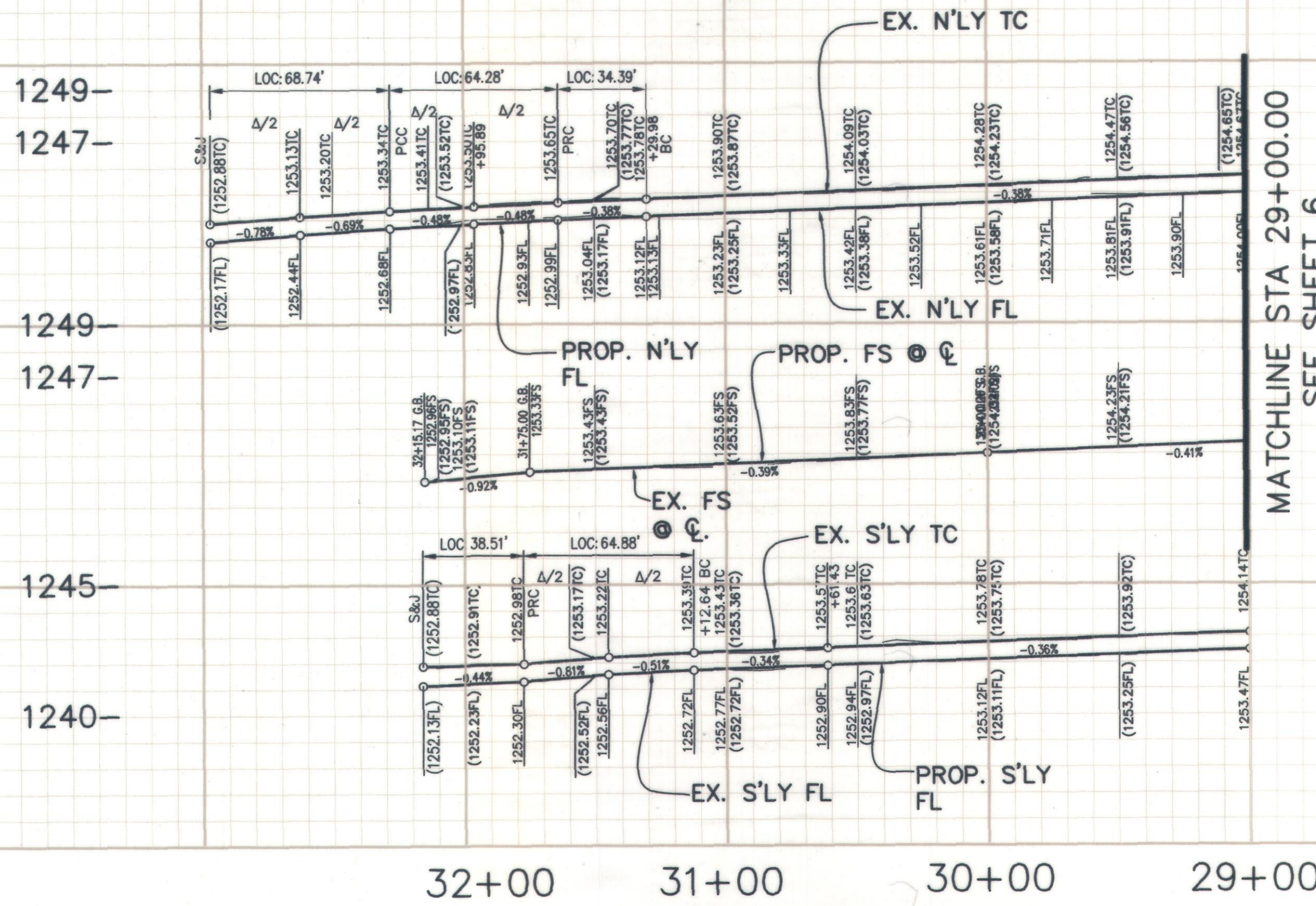
- 1 SAWCUT & REMOVE ROADWAY SECTION, & MISC. P.C.C. AS REQUIRED. (THICKNESS PER PLANS & TYP. SECTION).
- 2 CONSTRUCT 2" A.R.H.M. OVERLAY PER TYPICAL SECTION.
- 3 CONSTRUCT 3" D.G.A.C. OVER COMPACTED NATIVE.
- 4 SAWCUT & REMOVE EX. AND CONSTRUCT NEW 6" P.C.C. DRIVEWAY PER SPPWC STD PLAN NO. 110-2 (TYPE C, W & R PER PLAN).
- 9 SAWCUT & REMOVE EX. & CONSTRUCT NEW 4" P.C.C. SIDEWALK PER SPPWC STD. PLAN No. 112-2.
- 11 SAWCUT & REMOVE EX. AND CONSTRUCT NEW P.C.C. CURB & GUTTER PER SPPWC STD PLAN NO. 120-2 (TYPE A2-8 AND CITY OF UPLAND STD. No. CU-R2. TYPE C (MODIFIED VARIABLE CURB FACE, W=2').
- 14 RESET SURVEY TAGS AND MONUMENTS.

**DISPOSITION NOTES**

- 1 PROTECT IN PLACE
- 2 TO BE REMOVED BY SCE (SEE ELECTRICAL PLANS).
- 3 TO BE REMOVED BY OTHERS

**LEGEND:**

- P.C.C. SIDEWALK
- CONSTRUCT AC PAVEMENT
- RECONSTRUCTION PER PLAN.
- ROCK/FABRIC & PAVERS
- 390** STREET ADDRESS.
- NEW STREET LIGHT POLE PER ELECTRICAL PLANS.

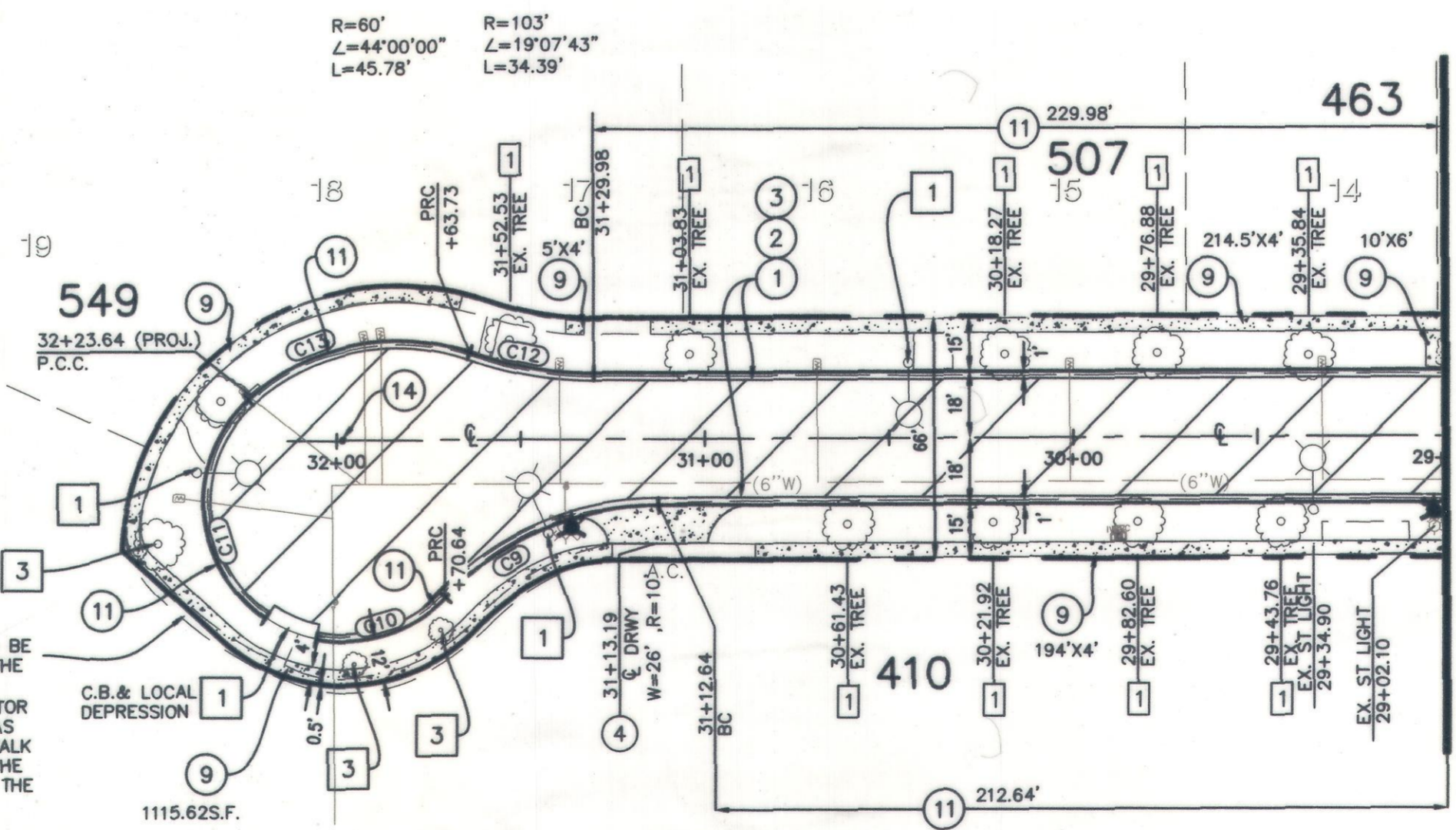


MATCHLINE STA 29+00.00  
SEE SHEET 6

**PROFILE SCALE**  
VERT: 1 in = 4 ft  
HORZ: 1 in = 40 ft

Curve #	Radius	Delta	Length	Tangent
C9	80.00'	46°27'48"	64.88'	34.34'
C10	38.00'	58°03'27"	38.51'	21.09'
C11	38.00'	103°38'39"	68.74'	48.33'
C12	103.00'	19°07'43"	34.39'	17.36'
C13	60.00'	61°22'48"	64.28'	35.61'

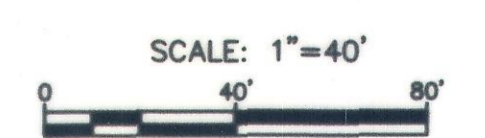
NEW SIDEWALK TO BE LOCATED WITHIN THE PUBLIC R/W AS SHOWN. CONTRACTOR TO RESTORE AREAS WHERE THE SIDEWALK USED TO BE TO THE SATISFACTION OF THE CITY.



MATCHLINE STA 29+00.00  
SEE SHEET 6

**ALPINE STREET**

SEE SHEET 2 FOR TYPICAL SECTIONS AND DETAILS



BENCH MARK NO. BM3A-86  
LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
ELEV. 1226.003'

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

**KABBARA ENGINEERING**  
601 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9400 - FAX 714-617-5974

*Nabil S. Kabbara*  
NABIL S. KABBARA RCE 40812  
DATE: 2/1/2023

REGISTERED PROFESSIONAL ENGINEER  
NABIL S. KABBARA  
No. C 40812  
EXP. 3-31-2023  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: M.S.  
DESIGNED BY: B.K.  
CHECKED BY: L.K.  
RECOMMENDED BY:

REVIEWED BY CITY STAFF  
DEPARTMENT: PUBLIC WORKS (OPER.)  
PUBLIC WORKS (ENV.)  
PUBLIC WORKS (WATER)  
PUBLIC WORKS (TRAF.)  
FIRE DEPT.

APPROVED BY:  
PUBLIC WORKS DIRECTOR / CIVIL ENGINEER  
R.C.E. 56306 EXP. DATE 12/31/2024  
RECOMMENDED BY:  
ENGINEERING  
RECOMMENDED BY:  
DEVELOPMENT SERVICES

DATE: 2-8-23

**CITY OF UPLAND**  
PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
PROJECT No. 7076  
**ALPINE STREET**  
FROM STA 29+00.00 TO W'LY CDS

WATER DRAWING NO.  
SHEET 7  
OF 18 SHEETS  
DRAWING NO. SI

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147

**GENERAL NOTES FOR WATER PLANS**

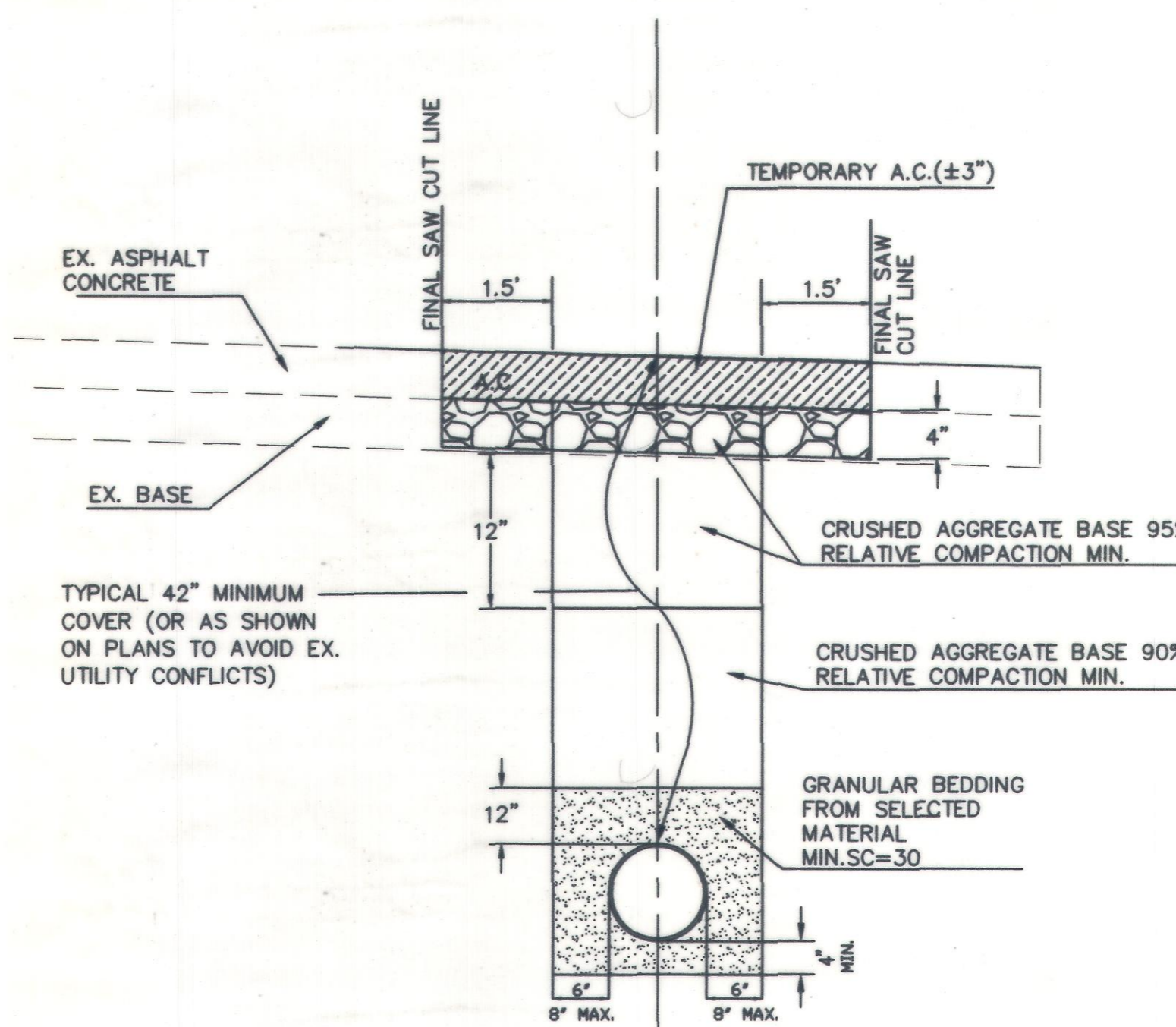
- ALL WORK AND MATERIAL SHALL CONFORM TO THE HIGHER STANDARD IN EITHER STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAINS AND APPURTENANCES, ON FILE AT THE CITY WATER DEPARTMENT, CITY OF UPLAND, OR STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST ISSUE AND AMENDMENTS, KNOWN AS THE "GREEN BOOK."
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING FACILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS.
- SAN ANTONIO WATER COMPANY, 139 N. EUCLID AVENUE, UPLAND, (909) 982-4107, MAY HAVE WATER LINES IN THIS AREA. CONTACT THEM FOR LOCATION, SIZE, AND DEPTH OF LINES, AND OTHER PERTINENT INFORMATION.
- QUANTITIES SHOWN ON THE PLANS ARE ESTIMATED. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF QUANTITIES BEFORE BIDDING ON ANY ITEM.
- THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY, BEFORE STARTING THE EXCAVATION OF ANY TRENCH FIVE FEET OR MORE IN DEPTH. SHORING, BRACING, SLOPING AND ALL OTHER PROVISIONS FOR WORKER PROTECTION SHALL CONFORM TO THE PROVISIONS CONTAINED IN ARTICLE 6 OF THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS, EFFECTIVE AUGUST 8, 1965, AND AS AMENDED JULY 27, 1973. IF VARIATION FROM THESE STANDARDS IS DESIRED, A DETAILED PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER AND SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
- ALL WATER AND SEWER MAINS SHALL MEET THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH REQUIREMENTS FOR THE SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER.
- THE CONTRACTOR IS REQUIRED TO BACKFILL AND COMPACT TRENCH AND REPAIR THE EXISTING PAVEMENT WHICH IS REMOVED OR DAMAGED BY HIS OPERATIONS IN ACCORDANCE WITH THE TRENCH REPAIR DETAIL SHOWN ON PLANS.
- SERVICE LATERALS ARE TO BE INSTALLED PER STANDARD DRAWING W.01, W.02, W.03, AND W.04 ON FILE AT THE CITY OF UPLAND WATER DEPARTMENT.
- FIRE HYDRANTS SHALL BE INSTALLED PER STANDARD DRAWING W.5 AND W.22 ON FILE AT THE CITY OF UPLAND WATER DEPARTMENT.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE BY "HOT TAP" PER STANDARD DRAWING W.6 ON FILE AT THE CITY OF UPLAND WATER DEPARTMENT.
- MINIMUM COVER OF WATER LINES SHALL BE AS FOLLOWS:

DIAMETER OF PIPE	MINIMUM COVER
2"	24"
4"	30"
6"	36"
8"	42"
10"	48"
12"	48"
14"	52"

- ACCESS TO WATER VALVES SHALL BE MAINTAINED DURING ALL PHASES OF THE PROJECT. VALVE BOXES TO REMAIN FREE AND CLEAR OF DEBRIS.
- SEPARATION BETWEEN WATER INSTALLATIONS AND OTHER UTILITIES SHALL BE MAINTAINED (PER WATER DIVISION STANDARD DRAWING NO. W.6-23).
- PROVIDE TRAP AT FIRST MANHOLE DOWNSTREAM OF PROPOSED IMPROVEMENTS. (CHECKED DAILY BY CONTRACTOR).
- PROVIDE 3/4" PLYWOOD FALSE BOTTOMS FOR MANHOLES, BOTH NEW AND OLD, DURING CONSTRUCTION. (CHECKED DAILY BY CONTRACTOR)
- ALL SHUTDOWN OF EXISTING WATER MAINS TO BE DONE BY AND COORDINATED BY THE CITY WATER DIVISION. CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER USERS 72 HOURS IN ADVANCE OF SHUTDOWN.
- REFERENCE PLANS USED: CITY DRAWING NUMBERS:
  - W.01 1" SERVICE DETAIL.
  - W.02 REQUIRED JUMPER PIPE AND METER BOX SETTING FOR 3/8" AND 1" METERS.
  - W.03 2" AND 1 1/2" SERVICE DETAIL.
  - W.05 FIRE HYDRANT
  - W.06 TAPPING DETAIL FOR 4" AND LARGER CONTRACTOR INSTALLED FACILITIES.
  - W.07 TYPICAL GATE VALVE INSTALLATION.
  - W.09 TYPICAL VALVE CAN INSTALLATION.
  - W.13 AIR -VACUUM & AIR RELEASE VALVE ASSEMBLY
  - W.17 4" AND LARGER ABOVE GROUND FIRE SERVICE W/ DOUBLER CHECK DETECTOR CHECK ASSEMBLY.
  - W.23 TRENCH BEDDING AND PAVEMENT REPAIR DETAIL.
  - W.24 THRUST BLOCK INSTALLATION.

**WATER CONSTRUCTION NOTES:**

- |    |      |  |
|----|------|--|
| 45 | (51) | FURNISH & INSTALL 8" CML&C CLASS 300 STEEL WATER LINE AND FITTINGS (JOINTS FULLY WELDED) PER CITY WATER STD. DWG NO. W.23.   |
| 46 | (52) | FURNISH & INSTALL 8" GATE VALVE PER CITY WATER STD. DWG NO. W.07 & W.09.   |
| 47 | (53) | FURNISH & INSTALL 8" CML&C TEE WITH THRUST BLOCK PER CITY WATER STD. DWG NO. W.24.   |
| 48 | (54) | FURNISH & INSTALL 8" CML&C BEND WITH THRUST BLOCK PER CITY WATER STD. DWG NO. W.24. (ANGLE PER PLAN).  |
| 59 | (55) | INSTALL 1" AIR RELEASE VALVE PER CITY STANDARD DRAWING W.13. (EXACT LOCATION TO BE FIELD DETERMINED BY THE CITY)   |
| 49 | (56) | HOT TAP EX. 8" WATER LINE WITH 8" TAPPING SLEEVE, 8" TAPPING VALVE AND THRUST BLOCKS PER CITY WATER STD. PLAN W.06 & W.24.   |
| -  | (57) | NOT USED.  |
| -  | (58) | NOT USED.  |
| 50 | (59) | FURNISH AND INSTALL 2" SERVICE LATERAL, METER AND BOX PER CITY WATER STD. DWG NO. W.03 AND CONNECT TO EXISTING CUSTOMER SERVICE.                                   |
| 51 | (60) | FURNISH AND INSTALL 1.5" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.03 AND CONNECT TO EXISTING CUSTOMER SERVICE.                             |
| 52 | (61) | FURNISH AND INSTALL 1" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.01 & W.02 AND CONNECT TO EXISTING CUSTOMER SERVICE.                        |
| 53 | (62) | FURNISH & INSTALL 6" FIRE HYDRANT ASSEMBLY PER CITY WATER STD. DWG NO. W.05.   |
| 54 | (63) | REMOVE EX. INTERFERING PIPE & CONNECT TO EXISTING WATERLINE WITH BUTT-STRAP PER DETAIL SHEET 8 OF PLANS. (SIZE PER PLAN)   |
| 55 | (64) | REMOVE, SALVAGE, AND DELIVER EXISTING FIRE HYDRANT AS DIRECTED BY THE ENGINEER.  |
| 56 | (65) | REMOVE EX. INTERFERING PIPE AND INSTALL REDUCER (SIZE PER PLAN) WITH THRUST BLOCK PER CITY WATER STD DWG NO. W.24 & CONNECT TO EXISTING WATERLINE. (SIZE PER PLAN) |
| 57 | (66) | REMOVE EX. INTERFERING AND INSTALL ADAPTOR WITH BLIND FLANGE & THRUST BLOCK PER CITY WATER STD. DWG NO. W.24..   |
| 58 | (67) | CUT, PLUG AND INSTALL BLIND FLANGE OR ABANDON EXISTING WATER MAIN PER CITY STANDARD DRAWING NO. W.10 AND W.24.   |

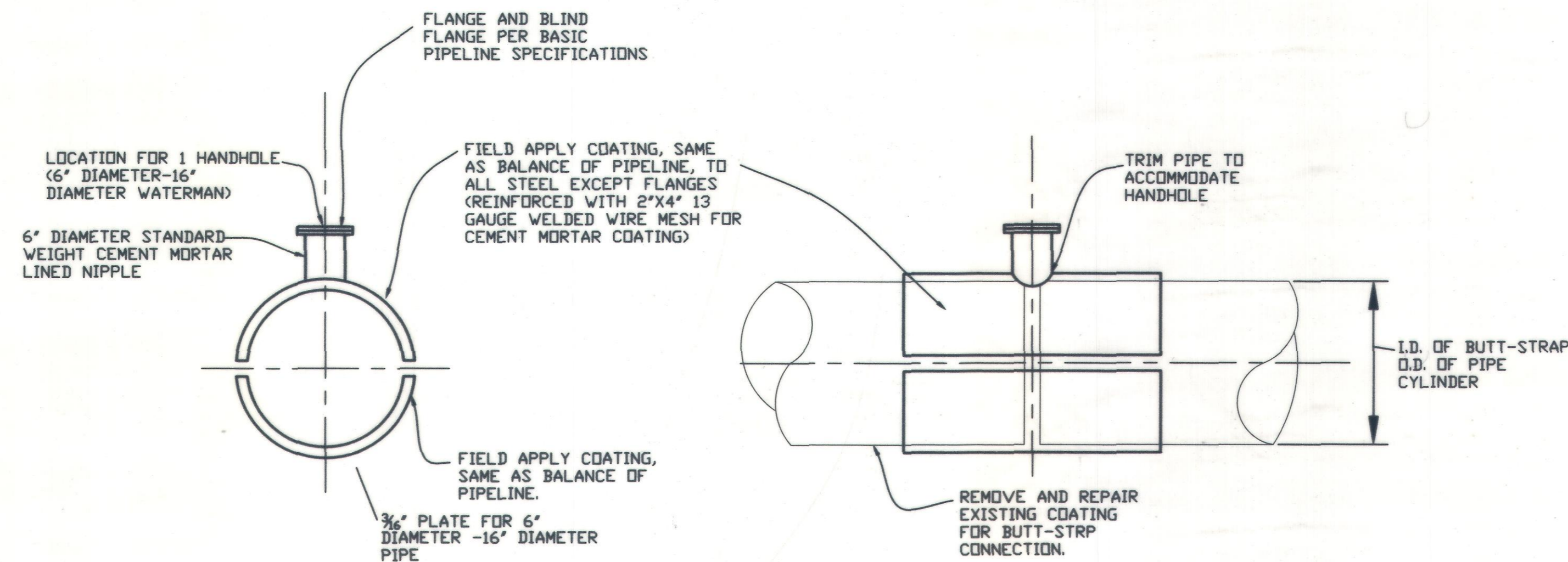


**TRENCH DETAIL**  
RECONSTRUCTION AREAS  
N.T.S.

**NOTE TO CONTRACTOR:**

TEMPORARY ASPHALT CONCRETE AND BASE PER TRENCH DETAIL FOR WATER LINE IS NOT BID PER TON, IT IS TO BE INCLUDED PER UNIT PRICE FOR PIPE INSTALLED.  
ASPHALT REPLACEMENT IN ALLEY TRENCH WATER MAIN CONNECTION SHALL BE INCLUDED PER UNIT PRICE FOR PIPE INSTALLED.

PROPOSED WATER VALVES ADJUSTMENT TO GRADE IS TO BE INCLUDED IN THE UNIT PRICE OF THE NEW WATER VALVE.



**BUTT-STRAP DETAIL**  
N.T.S.

BENCH MARK NO. BM3A-86

LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET

ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
601 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9400 - FAX 714-617-5974  
*Nabil S. Kabbara*  
NABIL S. KABBARA RCE 40812

REGISTERED PROFESSIONAL ENGINEER  
NABIL S. KABBARA  
No. C 40812  
Exp. 3-31-2025  
CIVIL  
STATE OF CALIFORNIA  
2-1-2025 DATE

DRAWN BY:	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY:	DEPARTMENT	DATE
CHECKED BY:	PUBLIC WORKS (OPER.)	
RECOMMENDED BY:	PUBLIC WORKS (ENV.)	
	PUBLIC WORKS (WATER)	
	PUBLIC WORKS (TRAF.)	
	FIRE DEPT.	

APPROVED BY: *[Signature]* 2-8-22 DATE  
PUBLIC WORKS DIRECTOR / CITY ENGINEER  
R.C.E. 56308 EXP. DATE 12/31/2024  
RECOMMENDED BY: *[Signature]*  
ENGINEERING  
RECOMMENDED BY: DEVELOPMENT SERVICES

**CITY OF UPLAND**  
PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS GENERAL NOTES & CONSTRUCTION NOTES**

WATER DRAWING NO.  
SHEET 8 OF 18 SHEETS  
DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**WATER CONSTRUCTION NOTES:**

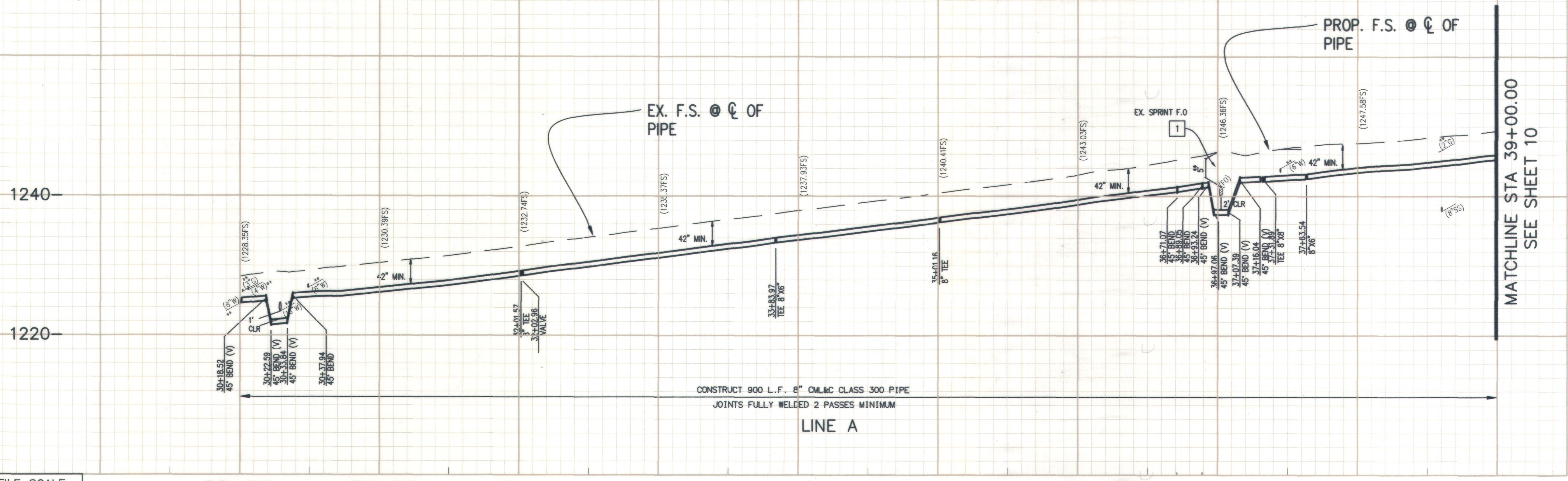
- 51 FURNISH & INSTALL 8" CML&C CLASS 300 STEEL WATER LINE AND FITTINGS (JOINTS FULLY WELDED) PER CITY WATER STD. DWG NO. W.23.
- 52 FURNISH & INSTALL 8" GATE VALVE PER CITY WATER STD. DWG NO. W.07 & W.09.
- 53 FURNISH & INSTALL 8" CML&C TEE WITH THRUST BLOCK PER CITY WATER STD. DWG No. W.24.
- 54 FURNISH & INSTALL 8" CML&C BEND WITH THRUST BLOCK PER CITY WATER STD. DWG NO. W.24. (ANGLE PER PLAN).
- 55 INSTALL 1" AIR RELEASE VALVE PER CITY STANDARD DRAWING W.13. (EXACT LOCATION TO BE FIELD DETERMINED BY THE CITY)
- 56 HOT TAP EX. 8" WATER LINE WITH 8" TAPPING SLEEVE, 8" TAPPING VALVE AND THRUST BLOCKS PER CITY WATER STD. PLAN W.06 & W.24.
- 60 FURNISH AND INSTALL 1.5" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.03 AND CONNECT TO EXISTING CUSTOMER SERVICE.
- 61 FURNISH AND INSTALL 1" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.01 & W.02 AND CONNECT TO EXISTING CUSTOMER SERVICE.
- 62 FURNISH & INSTALL 6" FIRE HYDRANT ASSEMBLY PER CITY WATER STD. DWG NO. W.05.
- 64 REMOVE, SALVAGE, AND DELIVER EXISTING FIRE HYDRANT AS DIRECTED BY THE ENGINEER.
- 65 REMOVE EX. INTERFERING PIPE AND INSTALL REDUCER (SIZE PER PLAN) WITH THRUST BLOCK PER CITY WATER STD DWG NO. W.24 & CONNECT TO EXISTING WATERLINE. (SIZE PER PLAN)
- 66 REMOVE EX. INTERFERING AND INSTALL ADAPTOR WITH BLIND FLANGE & THRUST BLOCK PER CITY WATER STD. DWG NO. W.24..
- 67 CUT, PLUG AND INSTALL BLIND FLANGE OR ABANDON EXISTING WATER MAIN PER CITY STANDARD DRAWING NO. W.10 AND W.24.

**DISPOSITION NOTES:**

- 1 PROTECT IN PLACE AS NOTED

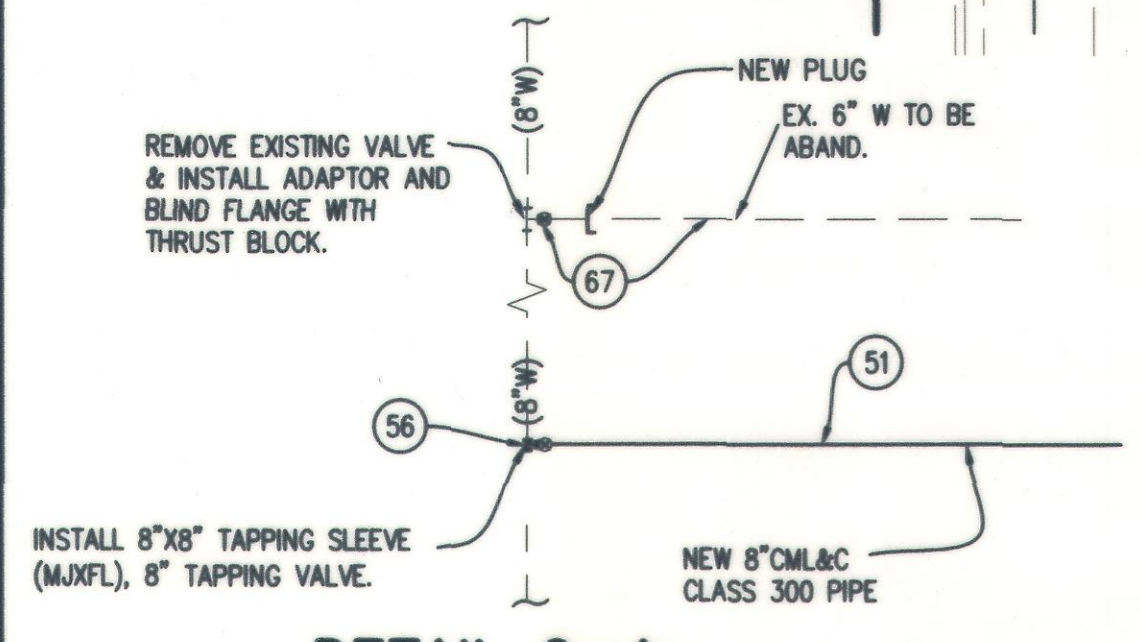
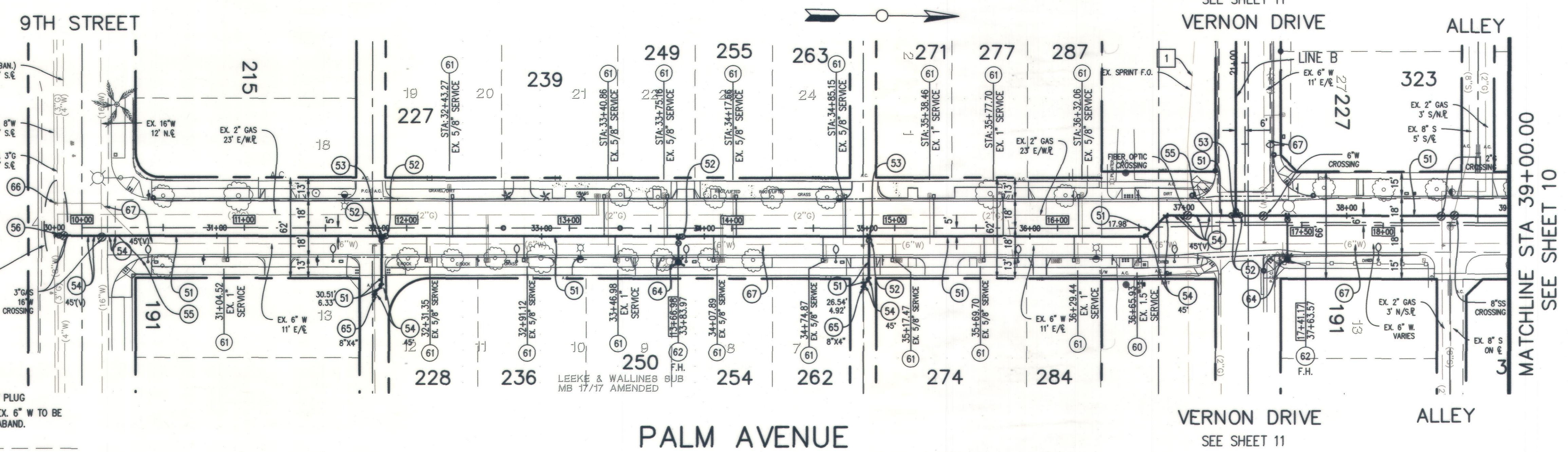
**LEGEND:**

- 10+00.00 STATIONING ALONG CONST. CENTERLINE
- 10+00.00 STATIONING ALONG WATERLINE CENTERLINE

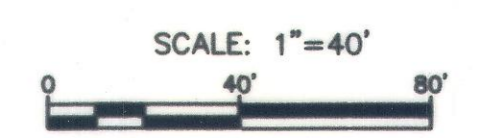


**PROFILE SCALE**  
 VERT: 1 in = 8 ft  
 HORZ: 1 in = 40 ft

30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00



\*\*=  
 CONTRACTOR TO VERIFY EXISTING DEPTH PRIOR TO ANY CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES, AND SHALL USE EXTREME CAUTION WHEN CROSSING THE SPRINT FIBER OPTIC DUCTS.



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

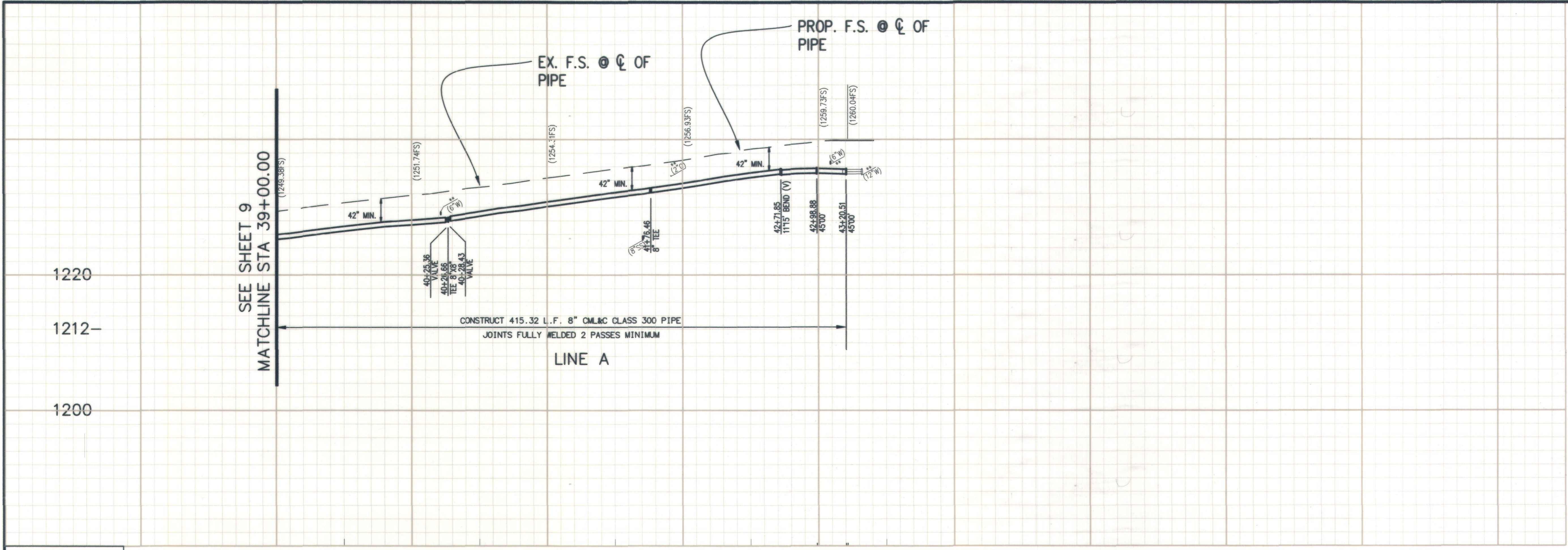
**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-9974  
 HABIL S. KABBARA RCE 40812  
 2/11/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	
RECOMMENDED BY:	PUBLIC WORKS (WATER)	
	PUBLIC WORKS (TRAF.)	
	FIRE DEPT.	


**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS PALM AVENUE**  
 FROM 9TH STREET TO STA 19+00.00

WATER DRAWING NO. SHEET 9 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

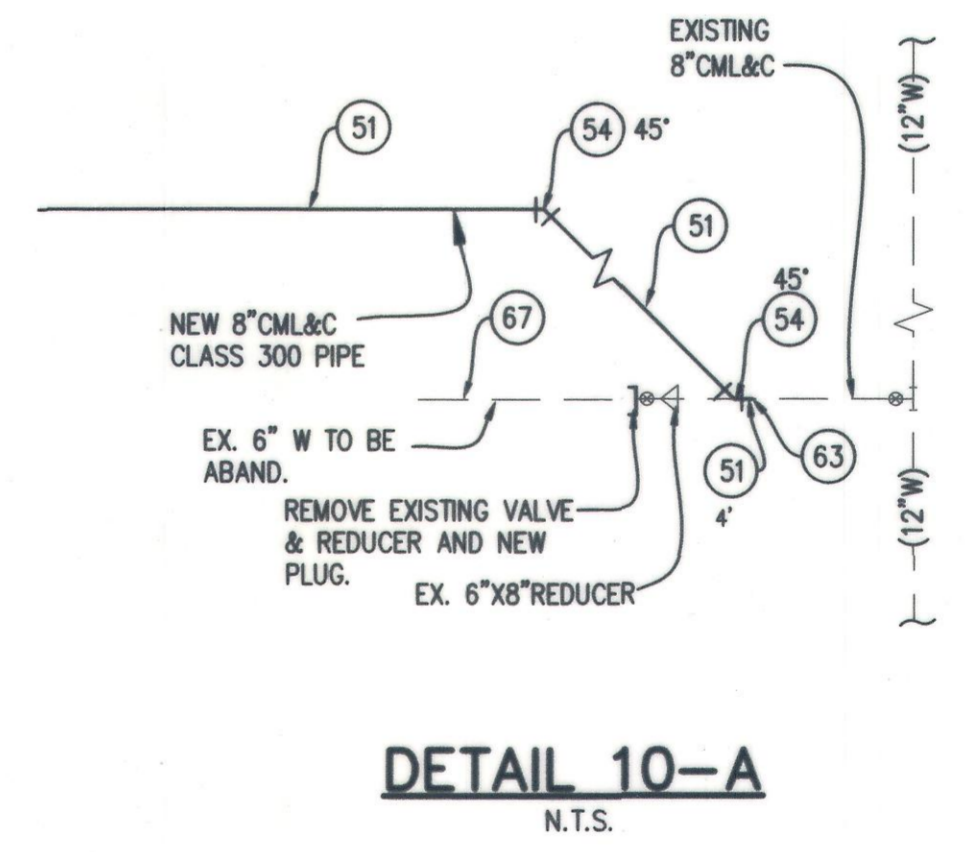
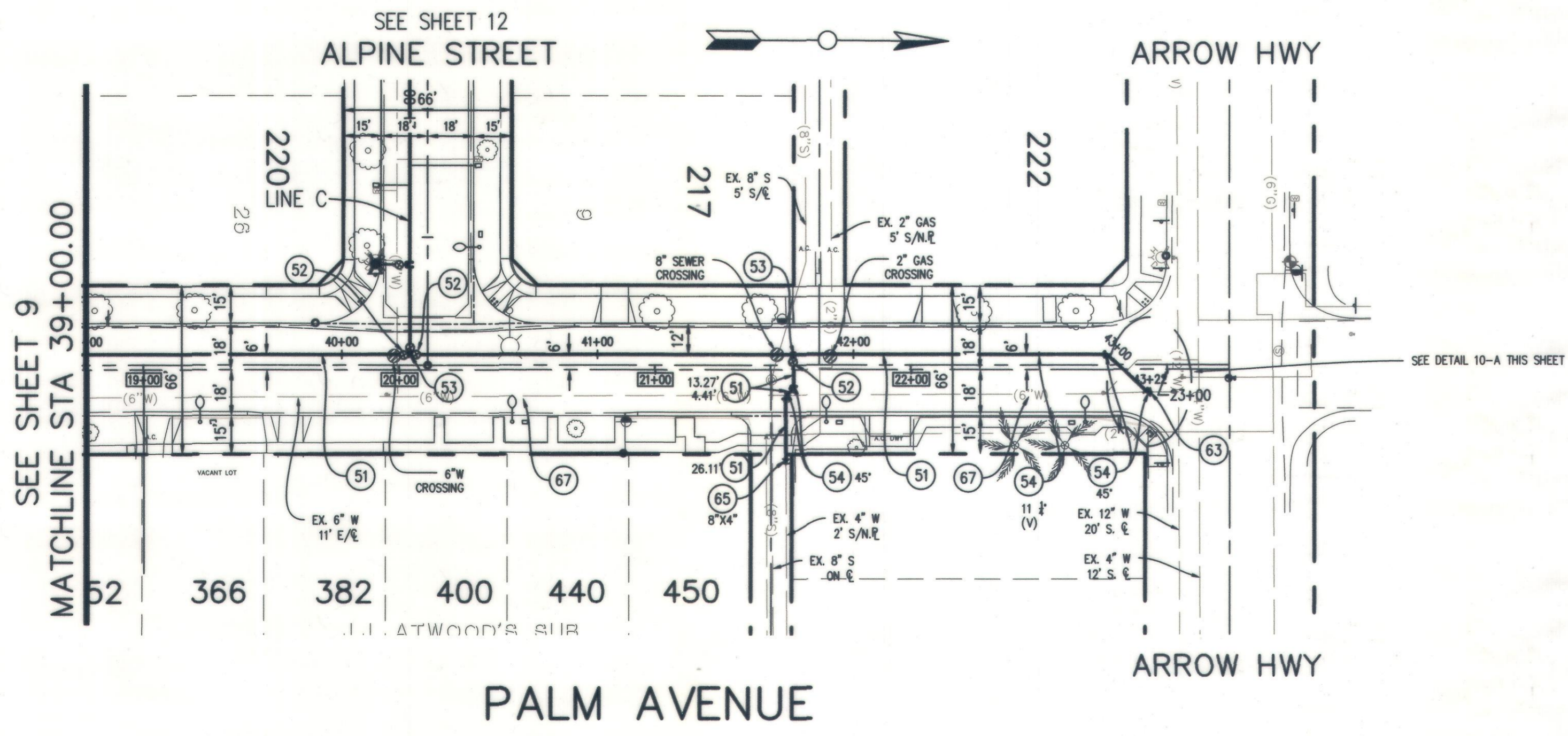


- WATER CONSTRUCTION NOTES:**
- 51 FURNISH & INSTALL 8" CML&C CLASS 300 STEEL WATER LINE AND FITTINGS (JOINTS FULLY WELDED) PER CITY WATER STD. DWG NO. W.23.
  - 52 FURNISH & INSTALL 8" GATE VALVE PER CITY WATER STD. DWG NO. W.07 & W.09.
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  - 63 REMOVE EX. INTERFERING PIPE & CONNECT TO EXISTING WATERLINE WITH BUTT-STRAP PER DETAIL SHEET 8 OF PLANS. (SIZE PER PLAN)
  - 65 REMOVE EX. INTERFERING PIPE AND INSTALL REDUCER (SIZE PER PLAN) WITH THRUST BLOCK PER CITY WATER STD DWG NO. W.24 & CONNECT TO EXISTING WATERLINE. (SIZE PER PLAN)
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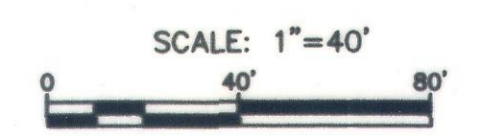
- DISPOSITION NOTES:**
- 1 PROTECT IN PLACE AS NOTED
- LEGEND:**
- 10+00.00 STATIONING ALONG CONST. CENTERLINE
  - 10+00.00 STATIONING ALONG WATERLINE CENTERLINE

PROFILE SCALE  
VERT: 1 in = 8 ft  
HORZ: 1 in = 40 ft

39+00 40+00 41+00 42+00 43+00 44+00



\*\*\*  
CONTRACTOR TO VERIFY EXISTING DEPTH PRIOR TO ANY CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES, AND SHALL USE EXTREME CAUTION WHEN CROSSING THE SPRINT FIBER OPTIC DUCTS.



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LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
401 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9400 - FAX 714-917-5974

REGISTERED PROFESSIONAL ENGINEER  
NABIL S. KABBARA RCE 40812  
CIVIL  
STATE OF CALIFORNIA  
2/11/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: 2-8-23
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
RECOMMENDED BY:	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	ENGINEERING
		RECOMMENDED BY:
		DEVELOPMENT SERVICES

**CITY OF UPLAND**  
PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
WATER IMPROVEMENTS  
LINE A  
FROM STA 19+00.00 TO ARROW HWY.

WATER DRAWING NO. SHEET 10 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**WATER CONSTRUCTION NOTES:**

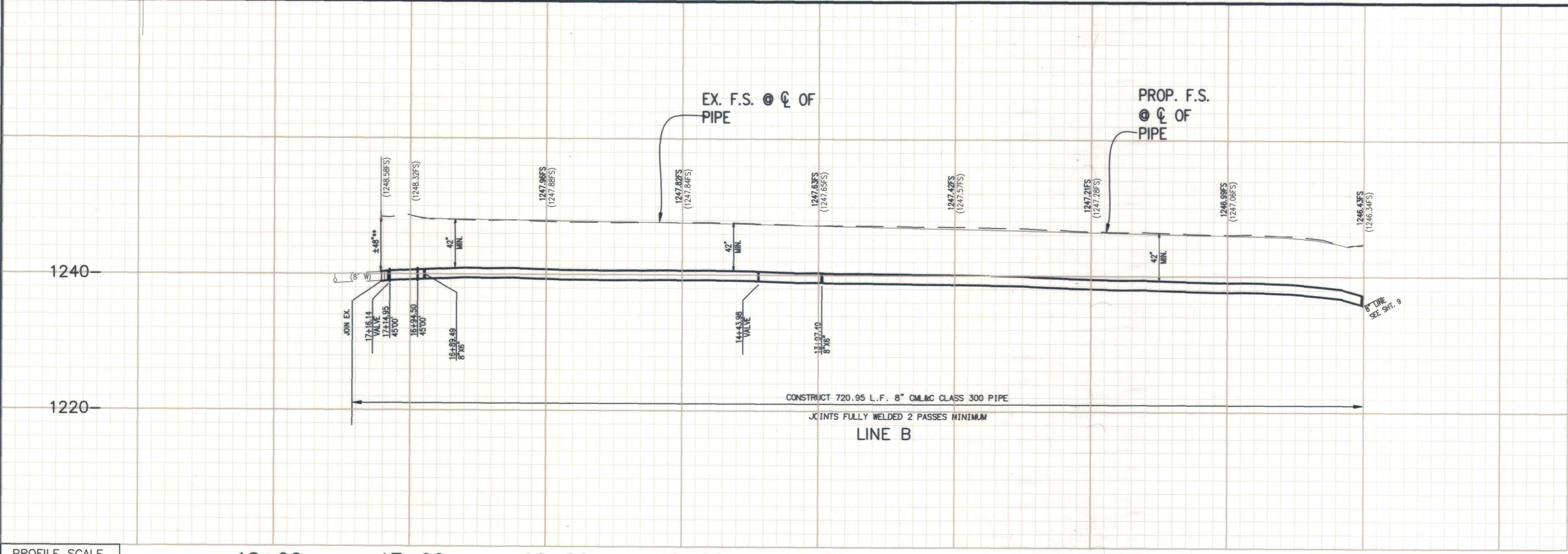
- 51 FURNISH & INSTALL 8" CML&C CLASS 300 STEEL WATER LINE AND FITTINGS (JOINTS FULLY WELDED) PER CITY WATER STD. DWG NO. W.23.
- 52 FURNISH & INSTALL 8" GATE VALVE PER CITY WATER STD. DWG NO. W.07 & W.09.
- 54 FURNISH & INSTALL 8" CML&C BEND WITH THRUST BLOCK PER CITY WATER STD. DWG NO. W.24. (ANGLE PER PLAN).
- 60 FURNISH AND INSTALL 1.5" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.03 AND CONNECT TO EXISTING CUSTOMER SERVICE.
- 61 FURNISH AND INSTALL 1" SERVICE LATERAL, NEW METER AND BOX PER CITY WATER STD. DWG NO. W.01 & W.02 AND CONNECT TO EXISTING CUSTOMER SERVICE.
- 62 FURNISH & INSTALL 6" FIRE HYDRANT ASSEMBLY PER CITY WATER STD. DWG NO. W.05.
- 63 REMOVE EX. INTERFERING PIPE & CONNECT TO EXISTING WATERLINE WITH BUTT-STRAP PER DETAIL SHEET 8 OF PLANS. (SIZE PER PLAN)
- 64 REMOVE, SALVAGE, AND DELIVER EXISTING FIRE HYDRANT AS DIRECTED BY THE ENGINEER.
- 67 CUT, PLUG AND INSTALL BLIND FLANGE OR ABANDON EXISTING WATER MAIN PER CITY STANDARD DRAWING NO. W.10 AND W.24.

**DISPOSITION NOTES:**

- 1 PROTECT IN PLACE AS NOTED

**LEGEND:**

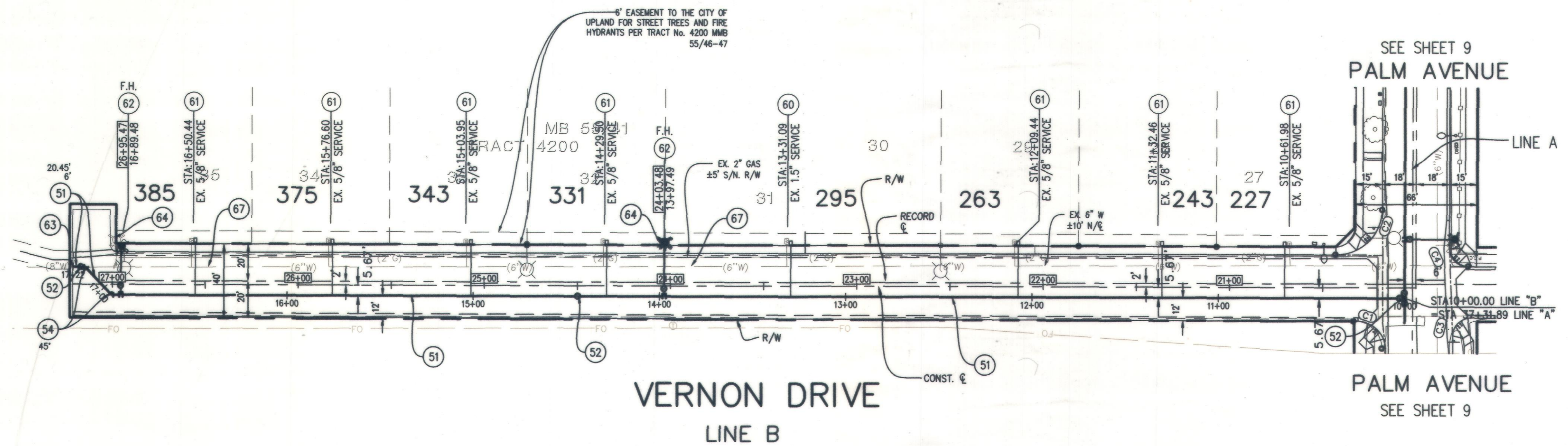
- 10+00.00 STATIONING ALONG CONST. CENTERLINE
- 10+00.00 STATIONING ALONG WATERLINE CENTERLINE



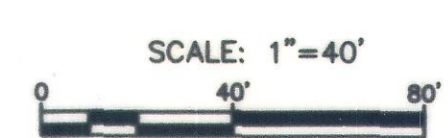
**PROFILE SCALE**  
 VERT: 1 in = 4 ft  
 HORZ: 1 in = 40 ft

\*\* DEPTH UNKNOWN. CONTRACTOR TO POT-HOLE PRIOR TO ANY CONSTRUCTION AND INFORM THE ENGINEER IN CASE OF ANY CONFLICTS.

18+00 17+00 16+00 15+00 14+00 13+00 12+00 11+00 10+00



\*\*= CONTRACTOR TO VERIFY EXISTING DEPTH PRIOR TO ANY CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES, AND SHALL USE EXTREME CAUTION WHEN CROSSING THE SPRINT FIBER OPTIC DUCTS.



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9600 - FAX 714-617-9974  
 NABIL S. KABBARA RCE 40812

REGISTERED PROFESSIONAL ENGINEER  
 NABIL S. KABBARA  
 No. C 40812  
 Exp. 3-31-2023  
 CIVIL  
 STATE OF CALIFORNIA  
 2/1/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: 2-10-23
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
RECOMMENDED BY:	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	RECOMMENDED BY:

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS LINE B**  
 FROM PALM AVENUE TO WESTERLY C.D.S.

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS LINE B**  
 FROM PALM AVENUE TO WESTERLY C.D.S.

WATER DRAWING NO. SHEET 11 OF 18 SHEETS DRAWING NO. 51

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**WATER CONSTRUCTION NOTES:**

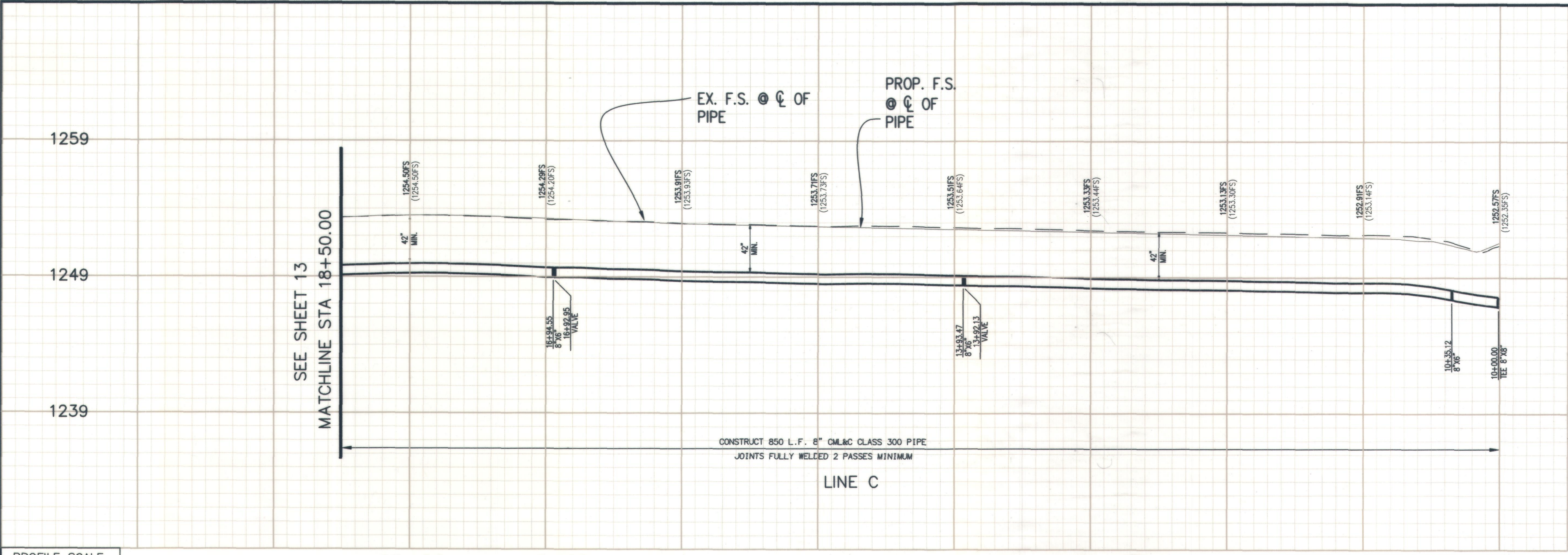
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- 64 REMOVE, SALVAGE, AND DELIVER EXISTING FIRE HYDRANT AS DIRECTED BY THE ENGINEER.
- 67 CUT, PLUG AND INSTALL BLIND FLANGE OR ABANDON EXISTING WATER MAIN PER CITY STANDARD DRAWING NO. W.10 AND W.24.

**DISPOSITION NOTES:**

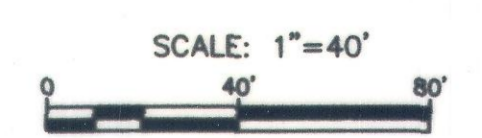
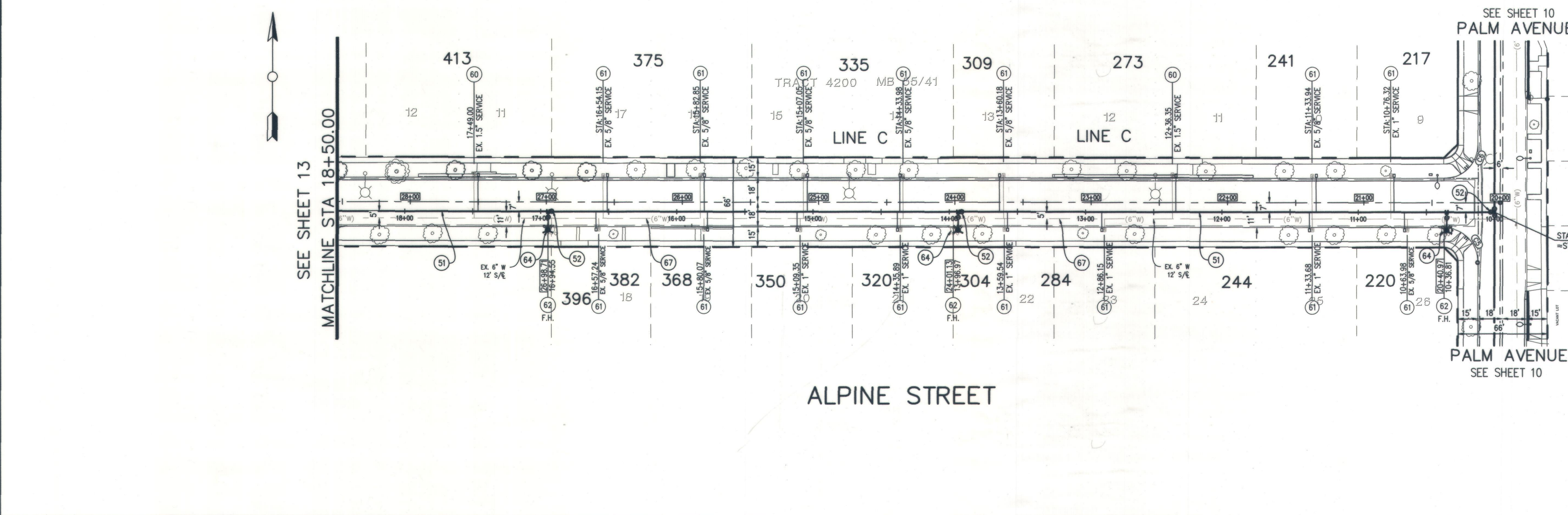
- 1 PROTECT IN PLACE AS NOTED

**LEGEND:**

- 10+00.00 STATIONING ALONG CONST. CENTERLINE
- 10+00.00 STATIONING ALONG WATERLINE CENTERLINE



**PROFILE SCALE**  
 VERT: 1 in = 4 ft  
 HORZ: 1 in = 40 ft



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-5974  
 MABIL S. KABBARA RCE 40812

2/11/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: 2-6-23
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	R.C.E. 56306 EXP. DATE 12/31/2024
RECOMMENDED BY:	PUBLIC WORKS (WATER)	RECOMMENDED BY:
	PUBLIC WORKS (TRAF.)	
	FIRE DEPT.	RECOMMENDED BY: DEVELOPMENT SERVICES

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS LINE C**  
 FROM PALM AVENUE TO STA 18+00.00

WATER DRAWING NO. SHEET 12 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**WATER CONSTRUCTION NOTES:**

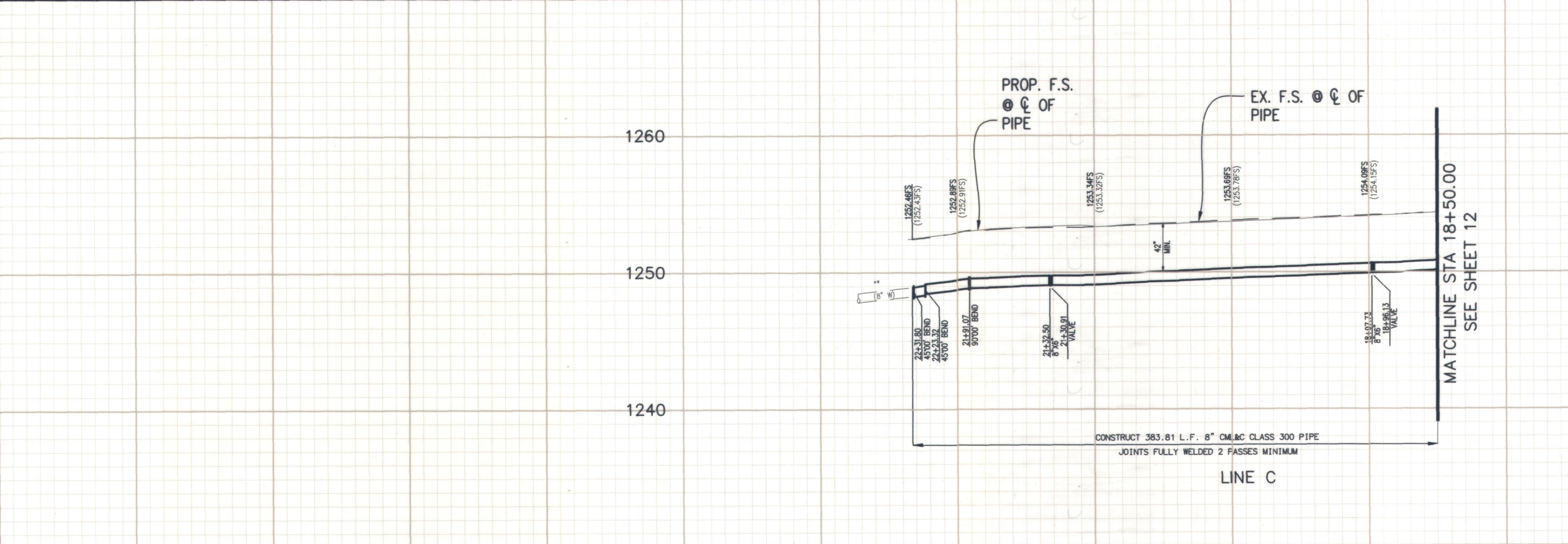
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**DISPOSITION NOTES:**

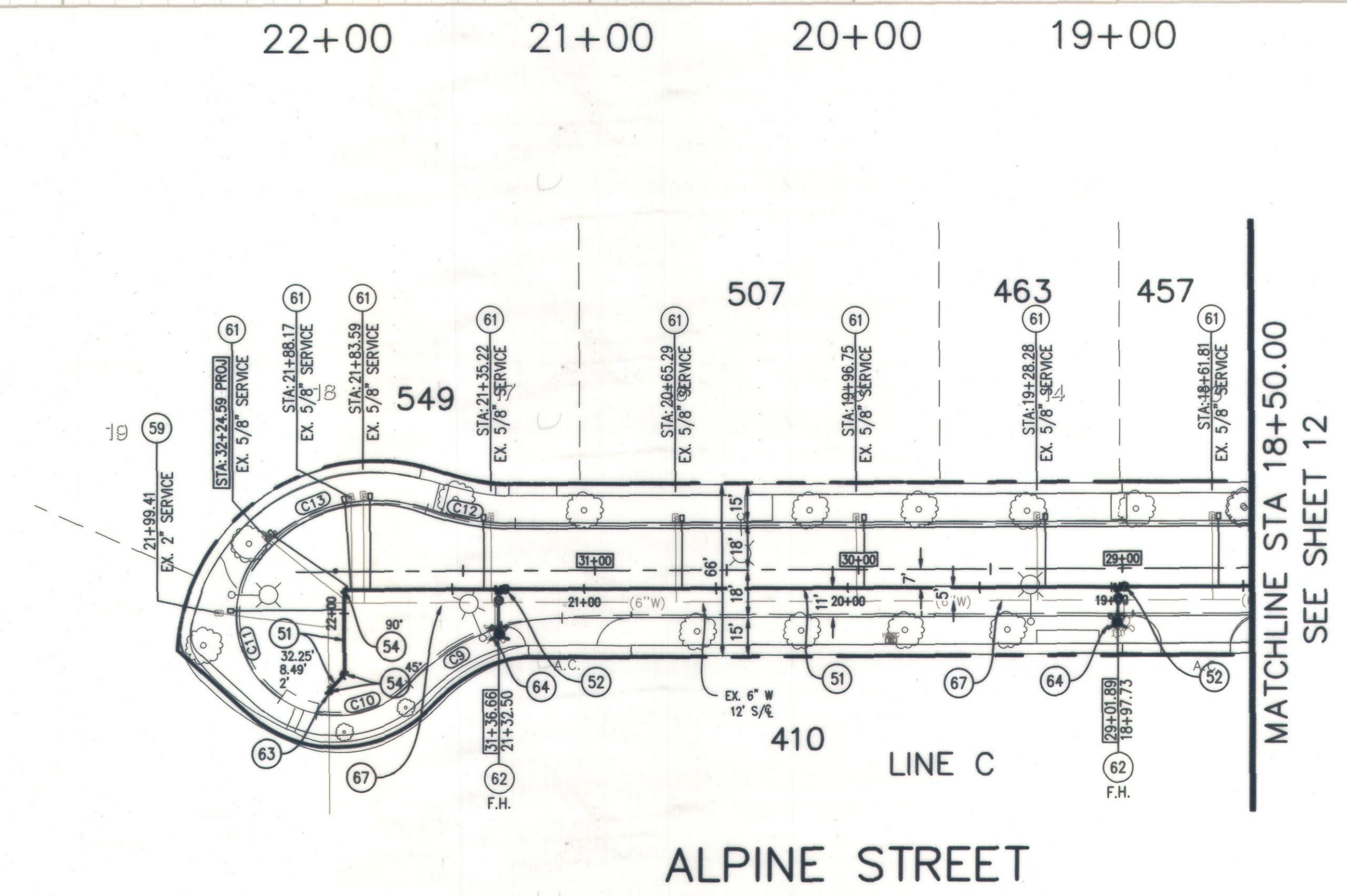
- 1 PROTECT IN PLACE AS NOTED

**LEGEND:**

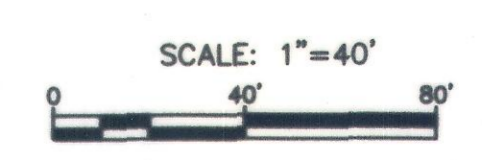
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 VERT: 1 in = 4 ft  
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 CONTRACTOR TO VERIFY EXISTING DEPTH PRIOR TO ANY CONSTRUCTION AND INFORM THE ENGINEER OF ANY DISCREPANCIES, AND SHALL USE EXTREME CAUTION WHEN CROSSING THE SPRINT FIBER OPTIC DUCTS.



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	DATE	APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9600 - FAX 714-617-9974

*Mabil S. Kabbara*  
 MABIL S. KABBARA RCE 40812  
 2/1/2023 DATE

DRAWN BY: M.S.	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY: B.K.	DEPARTMENT: PUBLIC WORKS (OPER.)	<i>[Signature]</i> 2-1-23 DATE
CHECKED BY: L.K.	PUBLIC WORKS (ENV.)	R.C.E. 56306 EXP. DATE 12/31/2024
RECOMMENDED BY:	PUBLIC WORKS (WATER)	RECOMMENDED BY:
	PUBLIC WORKS (TRAF.)	<i>[Signature]</i>
	FIRE DEPT.	ENGINEERING

	RECOMMENDED BY:
	DEVELOPMENT SERVICES

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
**WATER IMPROVEMENTS**  
**LINE C**  
 FROM STA 18+50.00 TO WESTERLY CDS

WATER DRAWING NO. SHEET 13 OF 18 SHEETS DRAWING NO. SI

PROJECT No. 7076, 7077, 7078, 9145, 9146 & 9147

**STRIPING CONSTRUCTION NOTES:**

ALL WORK AND MATERIALS SHALL CONFORM TO THE STATE OF CALIFORNIA (CALTRANS) STANDARD PLANS AND SPECIFICATIONS AND THE LATEST CA-MUTCD.

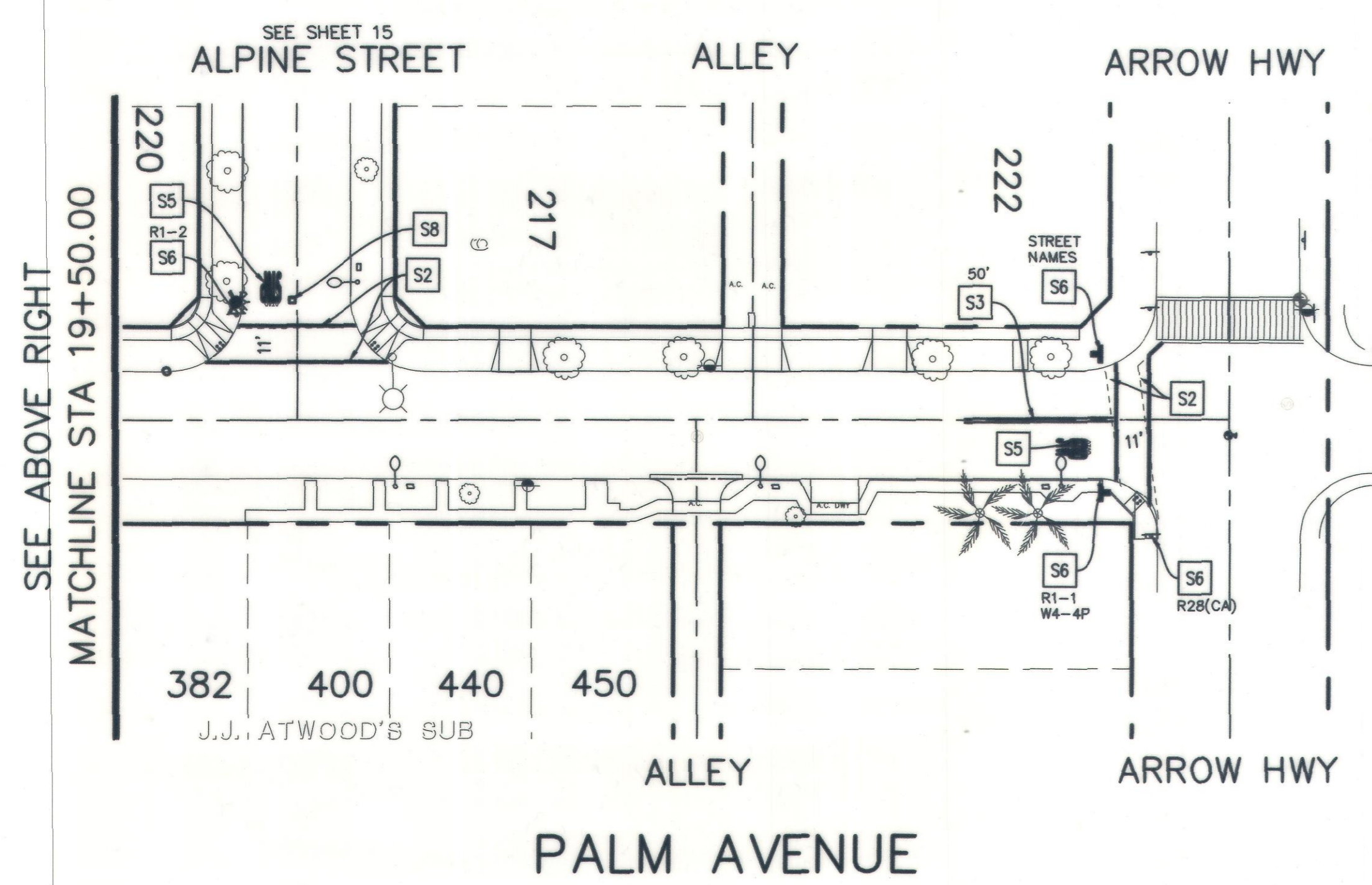
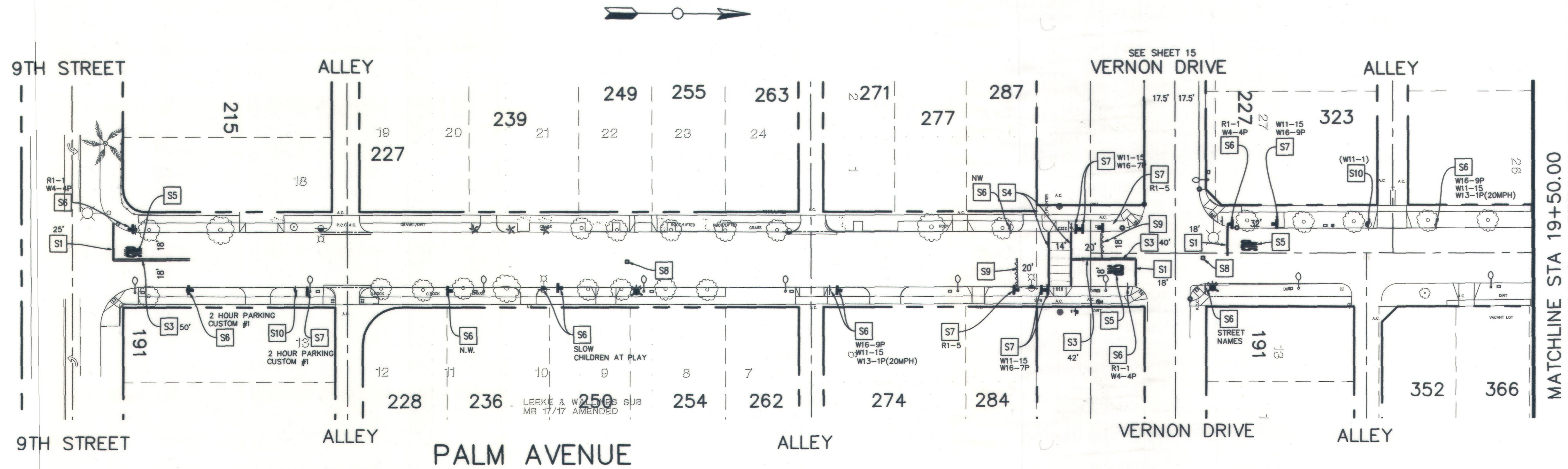
- S1 INSTALL 12" THERMOPLASTIC WHITE LIMIT LINE PER STD. PLAN A24E.
- S2 INSTALL THERMOPLASTIC CROSSWALK PER STD. PLAN DETAIL A24F (BASIC) COLOR WHITE UNLESS OTHERWISE NOTED.
- S3 INSTALL SOLID DOUBLE YELLOW LINE PER STD. PLAN A20A PER DETAIL 21.
- S4 INSTALL THERMOPLASTIC CROSSWALK PER STD. PLAN DETAIL A24F (LADDER) COLOR WHITE.
- S5 INSTALL THERMOPLASTIC PAVEMENT LEGEND AS SHOWN AND PER CALTRANS STDS. PLANS.
- S6 REMOVE EX. TRAFFIC SIGN & POST AND INSTALL NEW SIGN AND POST AS NOTED.
- S7 INSTALL NEW TRAFFIC SIGN ON NEW POST AND OR ON STREET LIGHT POLE AS SHOWN.
- S8 PLACE BLUE REFLECTIVE FIRE HYDRANT PAVEMENT MARKER PER FIGURE 3B-102(CA), PER CALIFORNIA MUTCD.
- S9 INSTALL YIELD LINE PER STD. PLAN A24E.
- S10 REMOVE EXISTING SIGN AS NOTED.
- S11 PAINT NEW CURB RED (2 COATS).

**DISPOSITION NOTES**

- 1 PROTECT IN PLACE

**STRIPING GENERAL NOTES**

1. ALL STRIPING AND RAISED PAVEMENT MARKERS TO BE DONE PER STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS.
2. ALL CONFLICTING STRIPING SHALL BE SANDBLASTED. ALL CONFLICTING SIGNS AND DELINEATORS SHALL BE REMOVED.
3. ALL LANE LINES AND PAVEMENT MARKINGS SHALL BE PER SPECIFICATIONS.
4. ALL STRIPING ON CONCRETE SHALL BE SANDBLASTED.



SEE SHEET 15 FOR TRAFFIC SIGNS LEGEND.



BENCH MARK NO. BM3A-86  
 LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
 ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
 601 N. PARKCENTER DR., SUITE 205  
 SANTA ANA, CA 92705  
 (714) 744-9400 - FAX 714-617-5974  
 NABIL S. KABBARA RCE 40812  
 2-4-2023 DATE

DRAWN BY:	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY:	DEPARTMENT	DATE
CHECKED BY:	PUBLIC WORKS (OPER.)	2.8.23
RECOMMENDED BY:	PUBLIC WORKS (ENV.)	
	PUBLIC WORKS (WATER)	
	PUBLIC WORKS (TRAF.)	
	FIRE DEPT.	

RECOMMENDED BY: [Signature]  
 PUBLIC WORKS DIRECTOR / CITY ENGINEER  
 R.C.E. 56306 EXP. DATE 12/31/2022

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 STRIPING & SIGNAGE PLANS  
 PALM AVENUE  
 FROM 9TH STREET TO ARROW HWY.

WATER DRAWING NO.  
 SHEET 14 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

**STRIPING CONSTRUCTION NOTES:**

ALL WORK AND MATERIALS SHALL CONFORM TO THE STATE OF CALIFORNIA (CALTRANS) STANDARD PLANS AND SPECIFICATIONS AND THE LATEST CA-MUTCD.

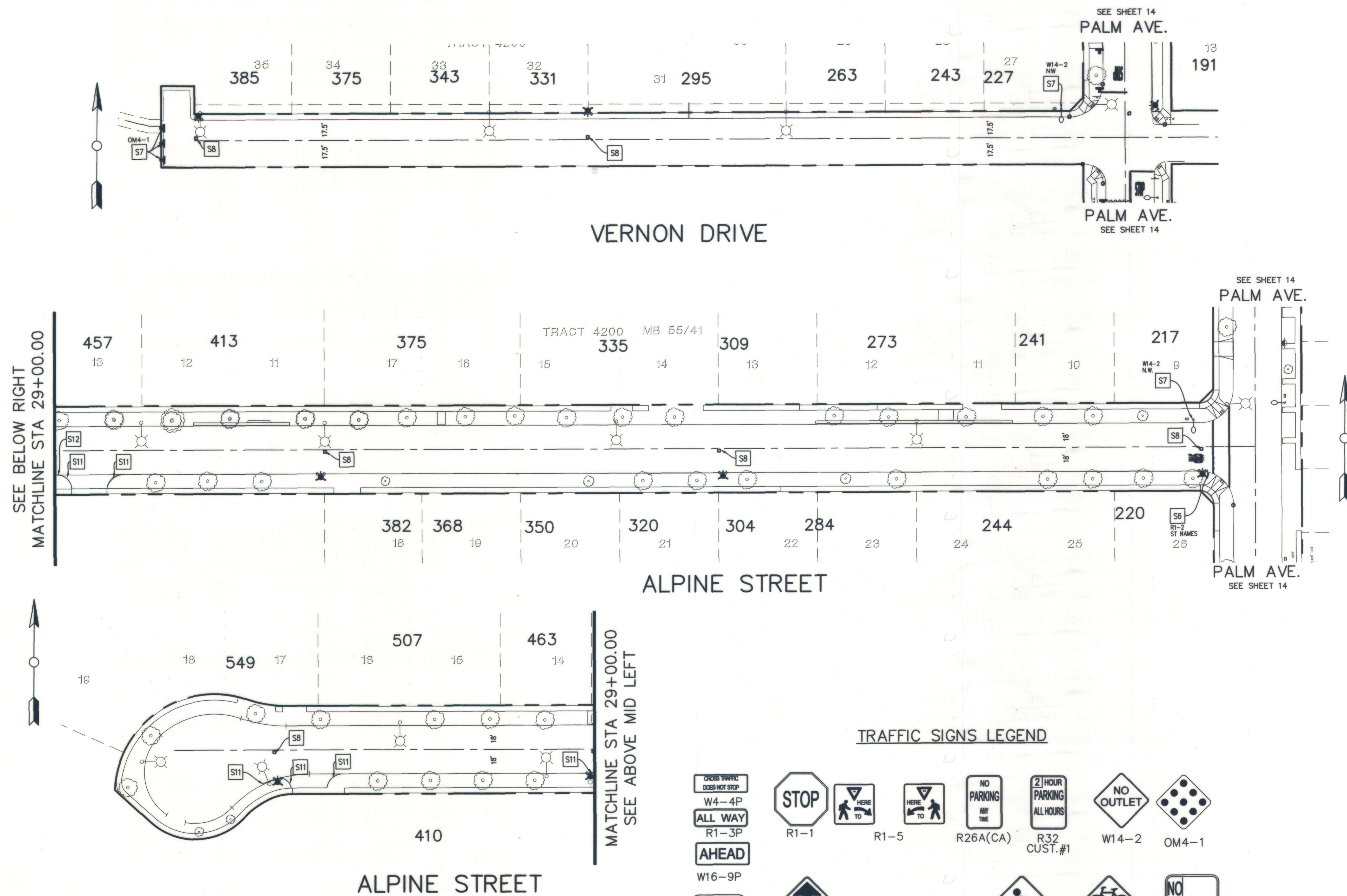
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- S2 INSTALL THERMOPLASTIC CROSSWALK PER STD. PLAN DETAIL A24F (BASIC) COLOR WHITE UNLESS OTHERWISE NOTED.
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- S11 PAINT NEW CURB RED (2 COATS).

**DISPOSITION NOTES**

- 1 PROTECT IN PLACE

**STRIPING GENERAL NOTES**

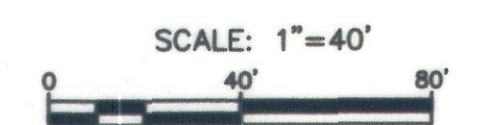
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3. ALL LANE LINES AND PAVEMENT MARKINGS SHALL BE PER SPECIFICATIONS.
4. ALL STRIPING ON CONCRETE SHALL BE SANDBLASTED.



**TRAFFIC SIGNS LEGEND**

<p>CROSS TRAFFIC DOES NOT STOP</p> <p>W4-4P</p> <p>ALL WAY</p> <p>R1-3P</p> <p>AHEAD</p> <p>W16-9P</p> <p>NO PARKING IN ALLEY</p> <p>R7-1(CUST)</p>	 R1-1	 R1-5	 R26A(CA)	 R32 CUST.#1	 W14-2	 OM4-1
	 W3-1	 W16-7P	 W11-2	 W11-15	 R26CA	 R81A(RED)

NW- NEIGHBORHOOD WATCH SIGN TO MATCH EXISTING.  
ST. NAME: CITY OF UPLAND STREET NAME SIGNS



BENCH MARK NO. BM3A-86  
LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET  
ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'VD

**KABBARA ENGINEERING**  
401 N. PARKCENTER DR., SUITE 205  
SANTA ANA, CA 92705  
(714) 744-9400 - FAX 714-617-5974

*Nabil S. Kabbara*  
NABIL S. KABBARA RCE 40812

2-1-2023 DATE

PROFESSIONAL ENGINEER  
NABIL S. KABBARA  
No. C 40812  
EXP. 3-31-2023  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY:	REVIEWED BY CITY STAFF	APPROVED BY:
DESIGNED BY:	DEPARTMENT	DATE
CHECKED BY:	PUBLIC WORKS (OPER.)	2-8-23
RECOMMENDED BY:	PUBLIC WORKS (ENV.)	PUBLIC WORKS DIRECTOR / CITY ENGINEER
	PUBLIC WORKS (WATER)	R.C.E. 56306 EXP. DATE 12/31/2024
	PUBLIC WORKS (TRAF.)	RECOMMENDED BY:
	FIRE DEPT.	ENGINEERING
		RECOMMENDED BY:
		DEVELOPMENT SERVICES

**CITY OF UPLAND**

PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

**STRIPING & SIGNAGE PLANS**

VERNON DRIVE FROM PALM AVENUE TO WLY CDS  
ALIPINE STREET FROM PALM AVENUE TO WLY CDS

WATER DRAWING NO.

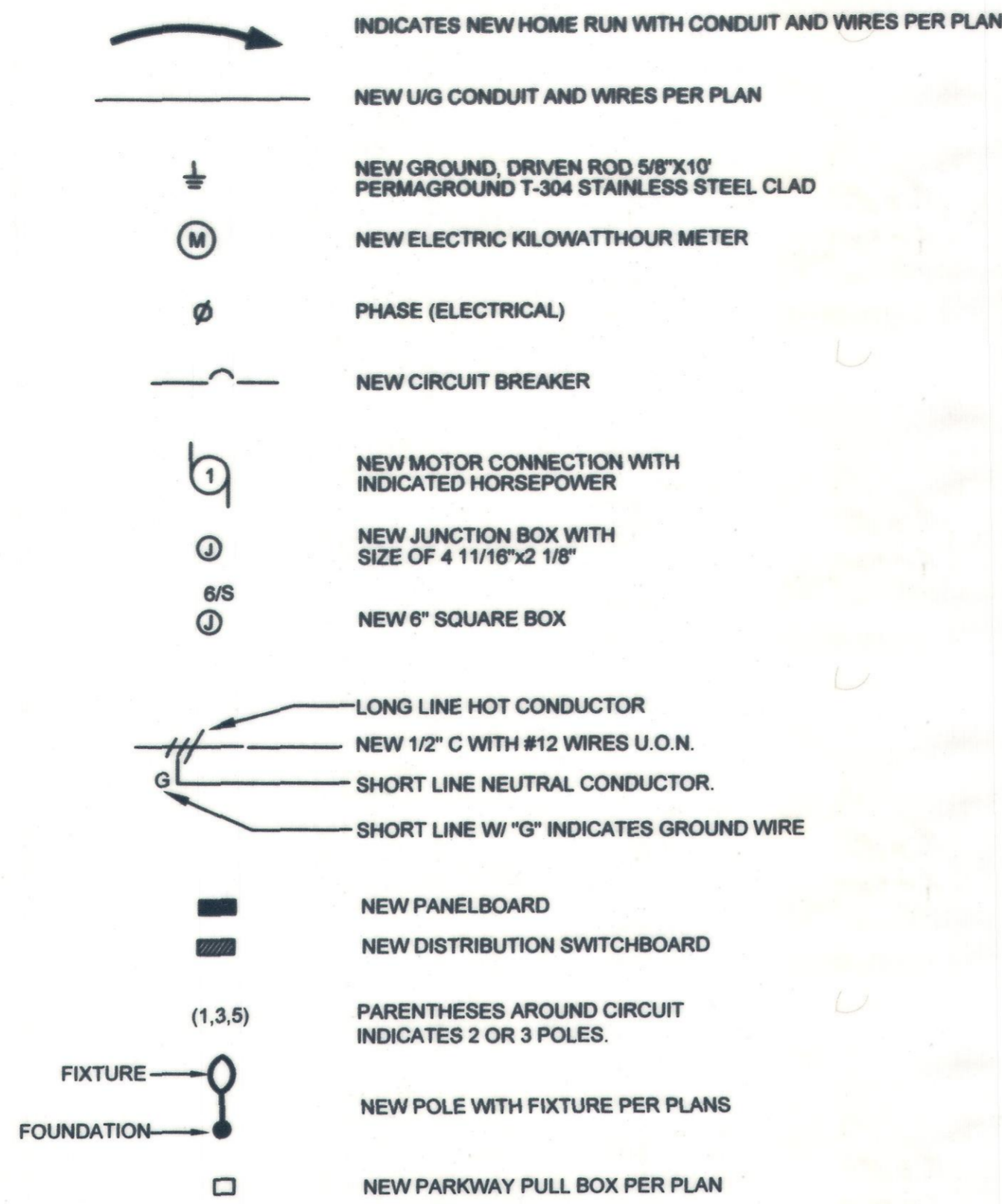
SHEET 15 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

# ELECTRICAL NOTES

- AFTER INSTALLATION OF ALL WIRES WITH SPLICES, CONTRACTOR SHALL MEGGER TEST WIRES WITH 1000V MEGGER TEST, AND TABULATE RESULTS. TESTED WIRES WITH 500 MEGA-OHMS OR LESS SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE CITY. TEST SHALL BE REPEATED UNTIL THE RESULTS ARE GREATER THAN 500 MEGA-OHMS. SUBMIT TO ENGINEERING FINAL SUCCESSFUL TEST RESULTS.
- PROVIDE AN ENGRAVED PHENOLIC LABEL MOUNTED WITH (2) STAINLESS STEEL SCREWS ON EACH OF THE ELECTRICAL EQUIPMENT AND DEVICES DENOTING PANEL AND CIRCUIT NUMBER.
- NO CHANGES TO THIS DESIGN SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF DESIGN ENGINEER.
- COORDINATE ALL WORK WITH OTHER TRADES, PRIOR TO EXCAVATION AND INSTALLATION OF UNDERGROUND SYSTEM.
- ALL WIRES SHALL BE COPPER WITH "THWN-2" INSULATION, 600V RATING, 90" FOR UNDERGROUND, UNDER FLOOR, AND WET LOCATION. USE "THHN", 600V, 90" RATING FOR DRY LOCATIONS. UL LISTED
- ALL INSTALLATIONS OF ALL ELECTRICAL WORK SHALL BE COMPLETE AND IN OPERATING CONDITIONS, AND SHALL COMPLY WITH LATEST ELECTRICAL CODE BASED 2017 NEC/2019 CALIFORNIA ELECTRICAL CODE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
- EQUIPMENT GROUNDING SHALL BE INSTALLED IN EACH CONDUIT AND SHALL COMPLY WITH THE ELECTRICAL CODE.
- ELECTRICAL EQUIPMENT AND DEVICES INSTALLED OUTDOORS SHALL BE ENCLOSED IN WEATHERPROOF, NEMA 3R ENCLOSURES.
- ELECTRICAL EQUIPMENT SHORT CIRCUIT BRACING RATING SHALL BE GREATER OR EQUAL TO MAXIMUM LET THRU CURRENT
- CIRCUIT BREAKERS SHALL BE "SWD" TYPE. SOME C/B SHALL BE WITH PROVISION OF LOCKING CAPABILITY AT OFF POSITION, WHERE REQUIRED PER CODE.
- ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE NEWLY FURNISHED BY CONTRACTOR, AND SHALL BE U.L. LISTED OR APPROVED BY LOCAL JURISDICTION AUTHORITY.
- CONDUIT RUNS SHOULD SUIT FIELD CONDITIONS.
- ALL MATERIAL SHALL BE NEW AND WARRANTED AS PER SPECS AFTER ACCEPTANCE OF PROJECT BY CITY.
- DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO BEST SUIT THE JOB DIMENSIONS OR CONDITIONS, AND SHALL BE INCLUDED AS PART OF THIS WORK. INSTALLATIONS OF EQUIPMENT PER MANUFACTURER RECOMMENDATION
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING ANY WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE STARTING ANY WORK
- ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ANY DISCREPANCIES IN DRAWINGS WITH JOB CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
- USE RIGID METALLIC CONDUIT WHEN SUBJECT TO MECHANICAL DAMAGES. USE PVC SCHEDULE 80 FOR UNDERGROUND INSTALLATION, AND SCHEDULE 80 PVC FOR UNDERGROUND BENDS.
- UPON COMPLETION OF THE WORK, CONDUCT AN OPERATING TEST. DEMONSTRATE THAT ALL EQUIPMENT ARE OPERATING IN A SATISFACTORY MANNER IN ACCORDANCE WITH THE DRAWINGS, AND IN PRESENCE OF THE OWNER.
- WHERE CROSSING ANY EXISTING SUBSTRUCTURES WHICH ALL ARE UNKNOWN IN DEPTH, OR WHERE NEW CONDUITS CROSS EACH OTHER, OR CROSS PIPES, THE CONTRACTOR SHALL TRENCH CAREFULLY TO LOCATE ALL SUBSTRUCTURES AT THE CROSSINGS. NEW CONDUITS DEPTH AND INSTALLATIONS SHALL BE PER DETAIL 4 OF SHEET SL-3.0 AT THESE CROSSINGS EXCEPT WHERE SUBSTRUCTURES OR NEW CONDUITS CROSSING MAKE THIS IMPOSSIBLE. THE CONTRACTOR SHALL REROUTE CONDUITS, AT NO ADDITIONAL COST TO THE CITY, OVER OR UNDER SUBSTRUCTURES AND NEW INTERFERED CONDUITS AND PIPES, WITH A MINIMUM 6" CLEARANCE IN ACCORDANCE WITH THE ELECTRICAL CODE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ALL CONDUITS AND WIRES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY. CALL UNITED SERVICE DIG ALERT (USA) AT 1-800-422-4133 FOR FURTHER INFORMATION REGARDING EXISTING SUBSTRUCTURES, TEN WORKING DAYS PRIOR TO COMMENCING WORK
- EMPTY CONDUITS SHALL BE PROVIDED WITH 3/8" DIAMETER YELLOW POLYPROPYLENE TWISTED PULL CORD RATED 3450 POUNDS TENSILE STRENGTH. TAG CONDUITS AT EACH END IDENTIFYING THE PURPOSE OF THE CONDUIT AND WHEN EMPTY CONDUITS TERMINATE AT PULL BOXES, TIE THE LOCATION OF THE OTHER END NYLON PULL CORD TO THE PULL BOX PULLING IRON WHERE APPLICABLE. CONDUITS SHALL BE SUCCESSFULLY MANDRELED WITH A 12" LONG MANDREL, IN PRESENCE OF THE INSPECTOR.
- ALL EXCAVATIONS SHALL BE PROTECTED BY STEEL PLATES UNTIL BACKFILLING TRENCH TO FINAL GRADE. NO OPEN TRENCH OVERNIGHT IS ALLOWED
- CONTRACTOR SHALL PERFORM A BURN TEST. LIGHT FIXTURES MUST BURN CONTINUOUSLY PER MANUFACTURER RECOMMENDATION, MINIMUM 72 HOURS. TEST MUST BE REPEATED FOR EARLY BURNOUTS.
- ALL UNDERGROUND CONDUIT BENDS SHALL BE MINIMUM 36" RADIUS FOR 3" CONDUIT OR SMALLER

# ELECTRICAL SYMBOLS



# LIGHT FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	NO. OF LAMPS	WATTS/ FIXTURE	VOLT	MOUNTING
A	LED	GE EVOLVE LED ROADWAY LIGHTING ERL1, "GE" CAT NO ERL1-0-10-C B3-30-E-GRAY-V1, TYPE II WIDE LIGHTING DISTRIBUTION, 3000K, WITH ANSI C136.71 7 PIN NON DIMMABLE PE CONTROL, GRAY COLOR, 9600 LUMENS, UL LISTED AND LABELED FOR WET LOCATION, 3G RATED VIBRATION, IP 65, STANDARD 0-10V DIMMABLE, 10KV/5KA SPD, WITH VARIABLE FIELD OUTPUT WATTAGE, SET AT 97W, 5 YEARS WARRANTY, CORROSION RESISTANT PAINT, 22.1\"Lx13.5\"Wx6.4\"D, ABOUT 16lbs.	1	97	120-277	POLE
B	LED	ACORN LED LIGHT TO FIT IN EX. 3.5\" DIAMETER TENON OF 2.75\"H, ELA LIGHTING CAT ACA118 WITH 100 LED CORN BULB TYPE S, 3000K, GRAY COLOR, UL LISTED AND LABELED FOR WET LOCATION, 22.1\"Lx13.5\"Wx6.4\"D	1	100	120-277	POLE

PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF FIXTURES, VENDOR SHALL SUBMIT COMPUTERIZED POINT BY POINT PHOTOMETRICS FOOTCANDLE CALCULATION ALONG WIDTH OF STREET, AND 13' OF SIDEWALK TO THE EAST AND WEST OF STREET. PERFORM SEPARATE PHOTOMETRICS FOR 97W, AND (2) FIELD OUTPUT WATTAGE

# ABBREVIATIONS

A - AMPERE	MB - MAIN BREAKER
AFF - ABOVE FINISHED FLOOR	M.L.O. - MAIN LUGS ONLY
A.I.C. - AMPS INTERRUPTING CURRENT	NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE	
CL - CENTERLINE	N.T.S. - NOT TO SCALE
C/B - CIRCUIT BREAKER	PB - PULL BOX
CKT - CIRCUIT	PVC - POLYVINYL CHLORIDE
C. - CONDUIT	RGS - RIGID GALVANIZED STEEL
C.O. - CONDUIT ONLY	SCE - SOUTHERN CALIFORNIA EDISON
DSB - DISTRIBUTION SWITCH BOARD	SW - SWITCH
E - ELECTRICAL	SWD - SWITCHING DUTY
E.M.T. - ELECTRIC METALLIC TUBING	T - TELEPHONE
EUSERC - ELECTRIC UTILITY SERVICE EQUIPMENTS REQUIREMENTS	TYP - TYPICAL
EX - EXISTING	U.L. - UNDERWRITERS LABORATORIES
FIXT. - FIXTURE	U.O.N. - UNLESS OTHERWISE NOTED
GND - GROUND	W - WITH
G.F.I. - GROUND FAULT INTERRUPTER	UG - UNDERGROUND
JB - JUNCTION BOX	W.P. - WEATHERPROOF
	XFMR - TRANSFORMER

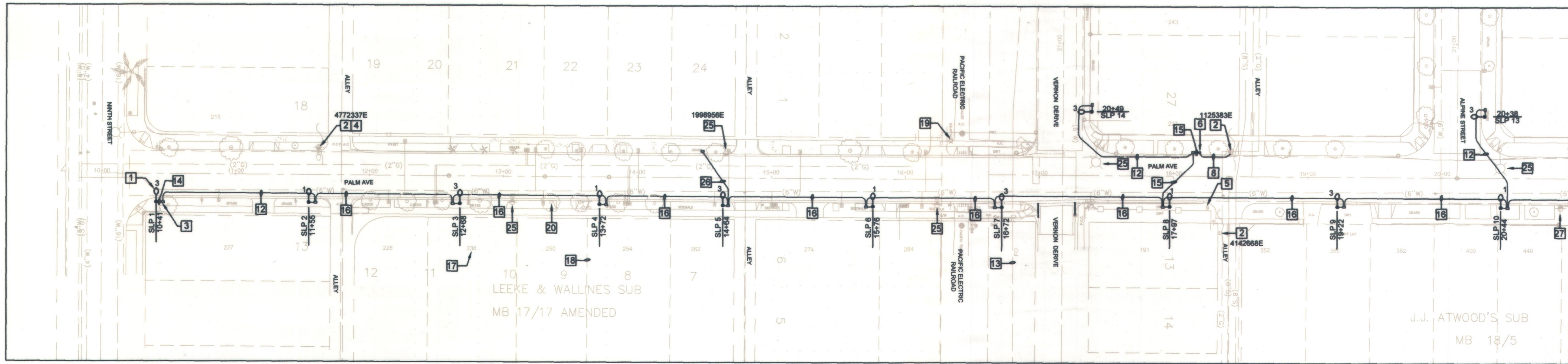
### SHEET INDEX

- SL-1.0: GENERAL NOTES, LEGEND AND FIXTURE SCHEDULE
- SL-2.0: STREET LIGHTING PLAN - PALM AVE
- SL-3.0: ELECTRICAL DETAILS

LOCATION: PALM AVE	MOUNTING: AS SHOWN	PANEL SCHEDULE - "A"	CONDITION	BUS: 100A	MAIN: 100A/2P														
CHECK IF UPGRADED <input type="checkbox"/>	TYPE: PEDESTAL	VOLTAGE: 120/240V-1Ø-3W	NEW <input type="checkbox"/> EXISTING <input checked="" type="checkbox"/>	22,000 AIC RATED CIRC. BKRS.															
DESCRIPTION	WATTS (VA)		NO. OF OUTLETS			WATTS (VA)			DESCRIPTION										
	ØA	ØB	LTG	REC	MISC	AMP	P	#		#	P	AMP	MISC	REC	LTG	ØA	ØB		
STREET LIGHTS	700		7			20	1	1	2	1	20	1			300			MAIN LIGHT CONTROL	
STREET LIGHTS		700	7			20	1	3	4									SPACE	
SPARE						20	1	5	6									SPACE	
SPACE								7	8									SPACE	
SPACE								9	10									SPACE	
	700	700													300	0		CONNECTED WATTS	
SUBTOTAL PHASE A =		1000 WATTS																	
SUBTOTAL PHASE B =		700 WATTS																	
TOTAL CONNECTED WATTS =		1700																	
ADD 25% LCL		350																	
MAXIMUM WATTS =		2050																	
FEEDER AMPS =		9		120/240V-1Ø-3W															

BENCH MARK NO. BM3A-86	REVISIONS		PLANS PREPARED BY: GENERAL TECHNOLOGIES & SOLUTIONS DESIGNED UNDER THE SUPERVISION OF: CHAOUKI ABLOUHOSN PE 14083 DATE: 01/30/2023 DESIGN BY: CAH [DRAWN BY: JAH] CHECKED BY: RH	DRAWN BY: JAH DESIGNED BY: CAH CHECKED BY: RH RECOMMENDED BY:	REVIEWED BY CITY STAFF DEPARTMENT: PUBLIC WORKS (OPER.) PUBLIC WORKS (ENH.) PUBLIC WORKS (WATER) PUBLIC WORKS (TRAF.) FIRE DEPT.	APPROVED BY: PUBLIC WORKS DIRECTOR / CITY ENGINEER R.C.E. 94306 EXP. DATE 12/31/2024 RECOMMENDED BY: ENGINEERING DEVELOPMENT SERVICES	CITY OF UPLAND PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS ELECTRICAL & LIGHTING GENERAL NOTES, LEGEND AND FIXTURE SCHEDULE	WATER DRAWING NO. SHEET SL-1.0 16 of 18 SHEETS DRAWING NO. SI
	MARK	DATE						
LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET	ELEV. 1226.003'							

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147



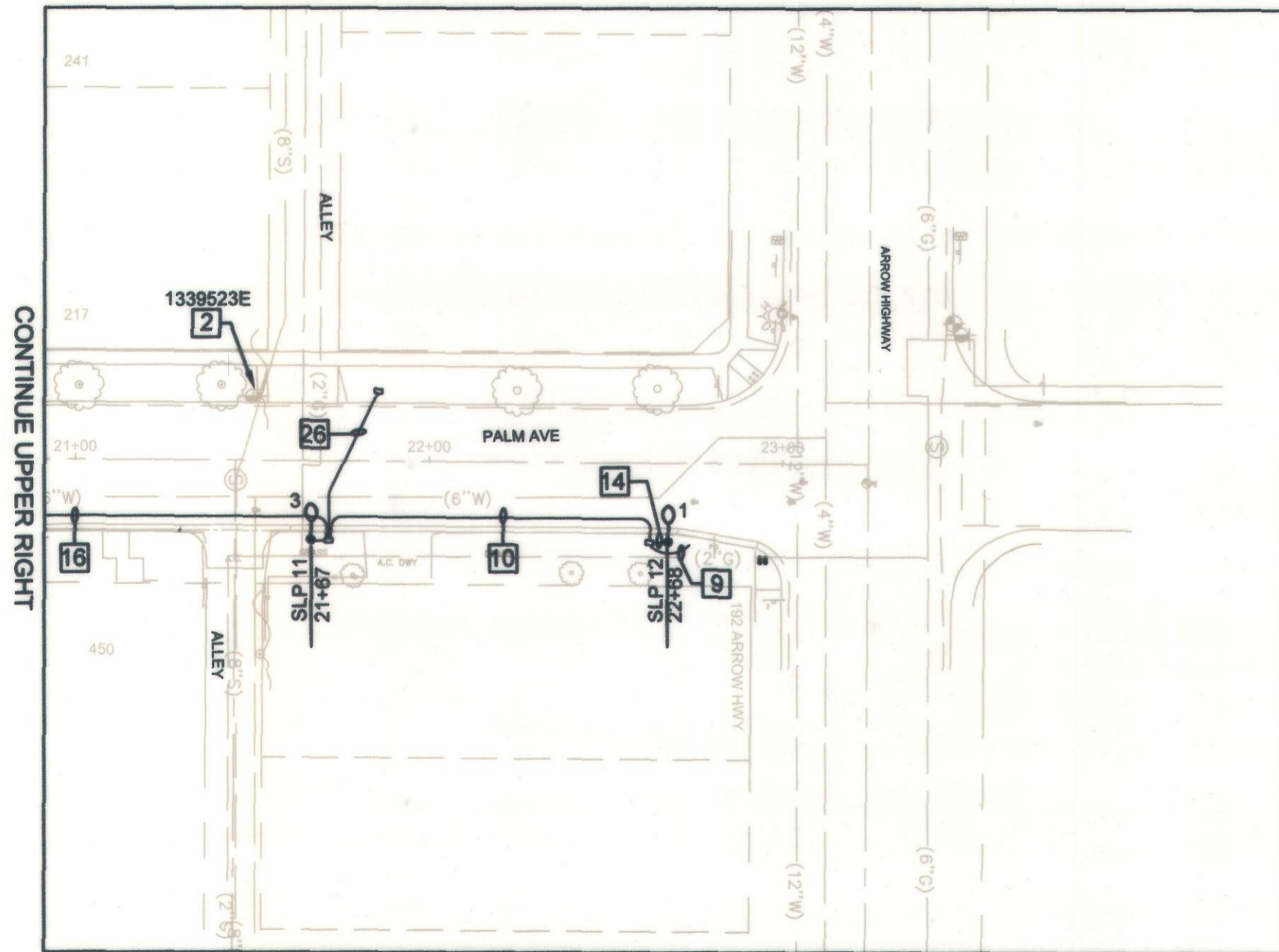
**DETAIL 1: ELECTRICAL SITE PLAN- PALM AVE**

SCALE: 1" = 40'

**KEY NOTES**

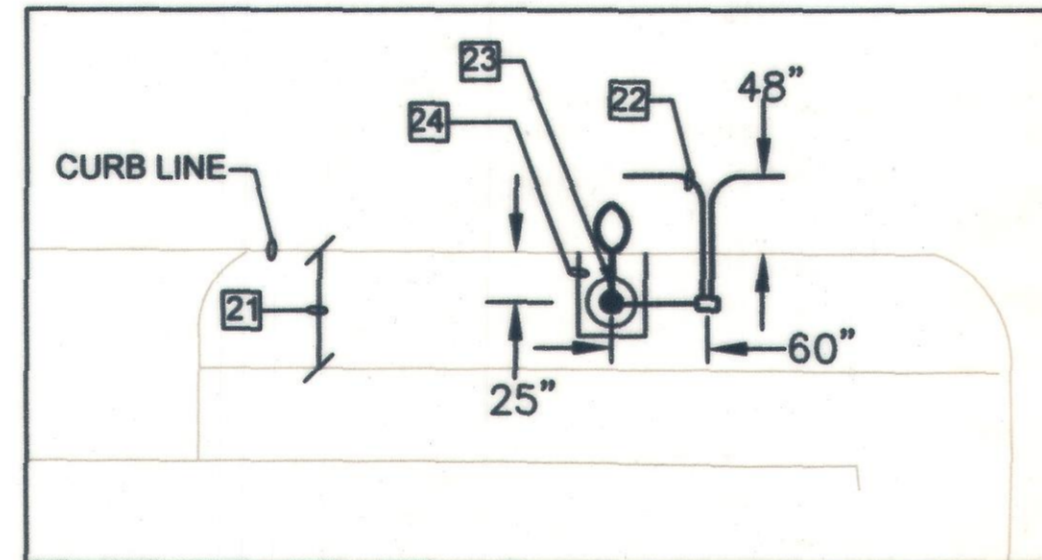
- ALL CONDUITS SHOWN ON THIS SHEET ARE UNDERGROUND, AND SCHEDULE 80 PVC
- INSTALL UNDERGROUND CONDUITS PER DET. 4, SHEET SL-3.0
- ALL WORK ARE NEW U.O.N. AS EXISTING

- 1 24'-8" LIGHT POLE WITH ONE LIGHT FIXTURE TYPE A (SL-1.0), AND PER DET. 1 (SL-3.0), AND DET. 3 OF THIS SHEET. (TYP)
- 2 EX. SCE SERVICE WOODEN POWER POLE WITH DESIGNATED NUMBER AND HIGH VOLTAGE OVERHEAD LINES TO REMAIN
- 3 □ PARKWAY PULL BOX PER DET. 2. (SL-3.0) (TYP)
- 4 SCE TO REMOVE EXISTING STREET LIGHT ATTACHED TO POLE
- 5 EX. SCE METER PEDESTAL WITH DESIGNATED ADDRESS OF 350 PALM AVE TO REMAIN.
- 6 ELECTRICAL METER PEDESTAL SERVICE /PANEL "A", 120/240V, 1Ø, 3W, 100A. SEE DET. 3 AND 5. (SL-3.0), WITH DESIGNATED ADDRESS OF 341 NORTH PALM AVE, UPLAND, CA 91786. ORIENT METER FRONT AT NORTH, PARALLEL TO STREET
- 7 EXISTING GRASS AREA. SEE CIVIL PLANS. REPAIR EXCAVATED GRASS AREA AROUND POLE TO ITS ORIGINAL CONDITIONS.
- 8 U/G 3" C.O. BY CONTRACTOR AND SERVICE CABLES BY SCE. INSTALL AT POLE QUADRANT PER SCE FINAL DESIGN AND 30' ABOVE GROUND
- 9 2" C.O. STUBBED BELOW GRADE AND CAPPED
- 10 U/G 2" C — 2#6, LIGHT POLE, CKT A-1  
VIA MAIN LIGHT CONTROL INSIDE SERVICE CABINET  
& 2" C.O. 1#6 GND
- 11 EXISTING SIDEWALK AREA. SEE CIVIL PLANS. REPAIR 4" THICK PCC SIDEWALK AROUND INSTALLED CONDUITS TO ITS ORIGINAL CONDITIONS.
- 12 U/G 2" C — 2#6, LIGHT POLE, CKT A-3  
& 2" C.O. 1#6 GND
- 13 EX. FIBER OPTIC LINE OF UNKNOWN DEPTH, SEE GENERAL NOTE NO 19 ON SL-1.0. CONTRACTOR SHALL HAND DIG TO LOCATE EX. FIBER OPTIC LINE, AND BUILD POLE FOUNDATION WITH MINIMUM 36" SEPARATION FROM EDGE OF POLE FOUNDATION AND FIBER OPTIC LINE
- 14 1" C WITH 2#12 AND 1#12 GND TO LIGHT. CKT PER PLANS. (TYP TO EACH LIGHT POLE)
- 15 U/G 2" C — 3#6, LIGHT POLES, CKT A-1,3  
& (2) 2" C.O. 1#6 GND
- 16 U/G 2" C — 3#6, LIGHT POLES, CKT A-1,3  
& 2" C.O. 1#6 GND
- 17 ADDRESS OF RELATED PROPERTY. (TYP)
- 18 PROPERTY LINE OF RELATED PROPERTIES. (TYP)
- 19 REPLACE EX. FIXTURE WITH NEW TYPE B (SL-1.0), AND KEEP POLE AS EXISTING
- 20 EXISTING TREES TO REMAIN. SEE CIVIL PLANS. COORDINATE WITH CITY ARBORIST FOR ANY REQUIRED ROOT PRUNING. (TYP)
- 21 GRASS OR 4" THICK SIDEWALK AREA. SEE CIVIL PLANS. REPAIR EXCAVATED AREA AROUND POLE AND INSTALLED CONDUITS TO ITS ORIGINAL CONDITIONS.
- 22 FIRST BEND FROM PULL BOX CROSSING STREET SHALL BE 45° TO SUIT FIELD CONDITIONS. (TYP)
- 23 LIGHT FIXTURE AND POLE HANDHOLE SHALL FACE STREET AND BE PERPENDICULAR. INSTALL EDGE OF FRONT POLE 18" FROM CURB, AND 25" CENTER LINE DISTANCE FROM CURB.
- 24 FOR ALL POLES INSTALLED ON GRASS OR DIRT, INSTALL 4" THICK CONCRETE (3250PSI) FROM CURB LINES TO 6" AROUND POLE, 42"Wx42"Lx6"D
- 25 EX. SCE WOODEN STREET LIGHT POLES TO BE REMOVED BY SCE INCLUDING ALL OVERHEAD WIRING, FOUNDATION, AND REFILL OF VOIDS. CONTRACTOR SHALL COORDINATE WITH SCE AS NEEDED.
- 26 U/G (2) 2" C.O. (SPARE)
- 27 EX. TELEPHONE/CABLE WOODEN POLE FEEDING NEARBY RESIDENCE TO REMAIN INTACT



**DETAIL 2: ELECTRICAL SITE PLAN- PALM AVE**

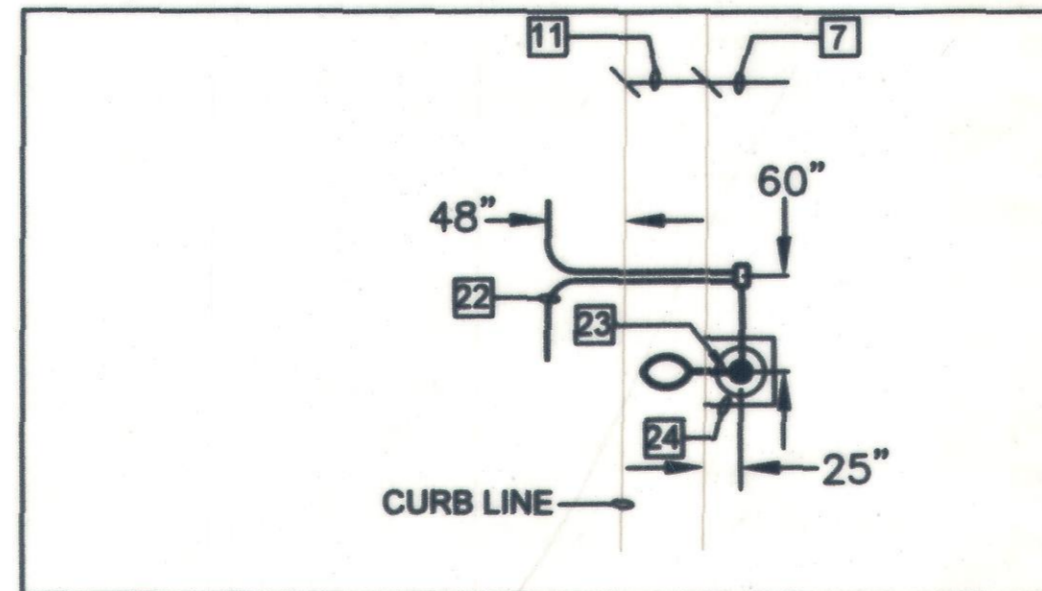
SCALE: 1" = 40'



TYPICAL INSTALLATION ALONG PALM AVE AND ALPINE STREET  
CONTRACTOR MAY REVISE DIMENSIONS TO BETTER SUIT FIELD CONDITIONS WITH CITY INSPECTOR APPROVAL, AND AVOID INTERFERENCE WITH NEW WATER SERVICES

**DETAIL 3: POLE INSTALLATION PLAN**

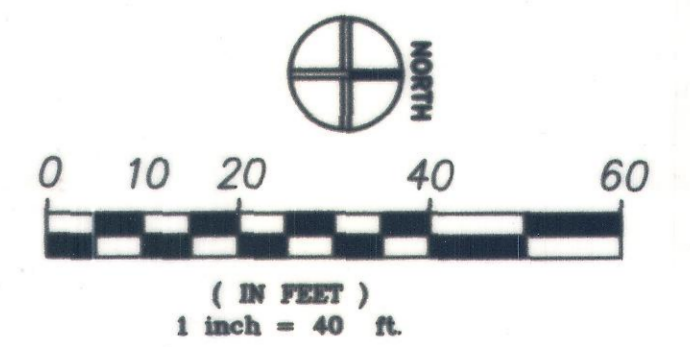
SCALE: 1" = 10'



TYPICAL INSTALLATION ALONG VERNON DRIVE, SLP-14  
CONTRACTOR MAY REVISE DIMENSIONS TO BETTER SUIT FIELD CONDITIONS WITH CITY INSPECTOR APPROVAL

**DETAIL 4: POLE INSTALLATION PLAN**

SCALE: 1" = 10'



BENCH MARK NO. BM3A-86

LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET

ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'D

PLANS PREPARED BY:  
  
 GENERAL TECHNOLOGIES & SOLUTIONS  
 1000 W 7TH STREET, SUITE 300  
 LOS ANGELES, CA 90017 (213) 517-2500  
 PREPARED UNDER THE SUPERVISION OF:  
  
 CHAOUKI ABOULHOSN PE 14083 DATE 01/30/2023  
 DESIGN BY: CAH DRAWN BY: JAH CHECKED BY: RH

DRAWN BY: JAH  
 DESIGNED BY: CAH  
 CHECKED BY: RH  
 RECOMMENDED BY:  
 FIRE DEPT.

REVIEWED BY CITY STAFF  
 DEPARTMENT INITIAL DATE  
 PUBLIC WORKS (OPER.)  
 PUBLIC WORKS (ENW.)  
 PUBLIC WORKS (WATER)  
 PUBLIC WORKS (TRAF.)  
 FIRE DEPT.

APPROVED BY:  
  
 PUBLIC WORKS DIRECTOR / CITY ENGINEER  
 R.C.E. 96306 EXP. DATE 12/31/2024  
 RECOMMENDED BY:  
  
 ENGINEERING DEVELOPMENT SERVICES

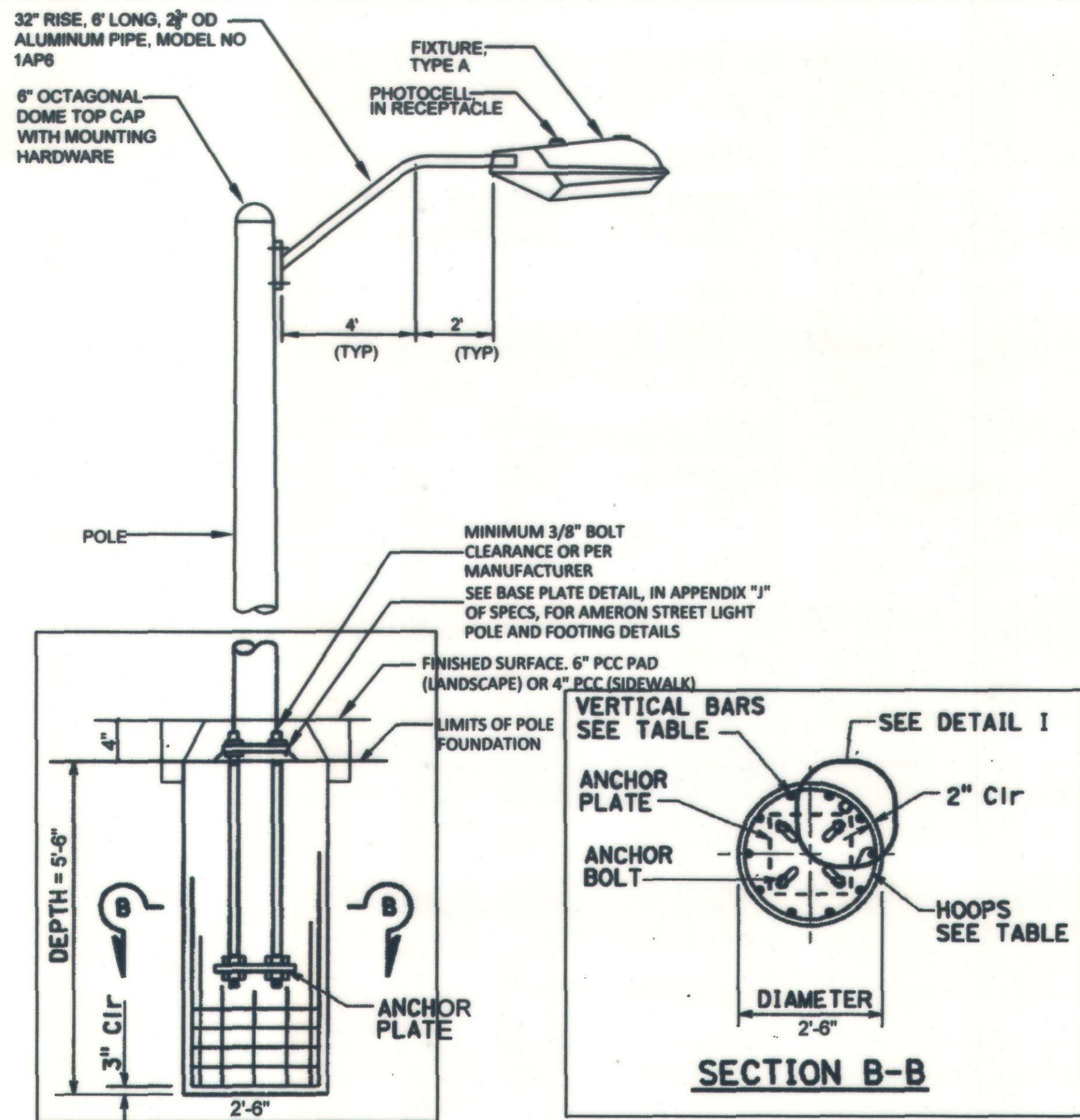
**CITY OF UPLAND**

PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS

**ELECTRICAL SITE PLAN - PALM AVE**

WATER DRAWING NO. SHEET SL-2.0 17 OF 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147

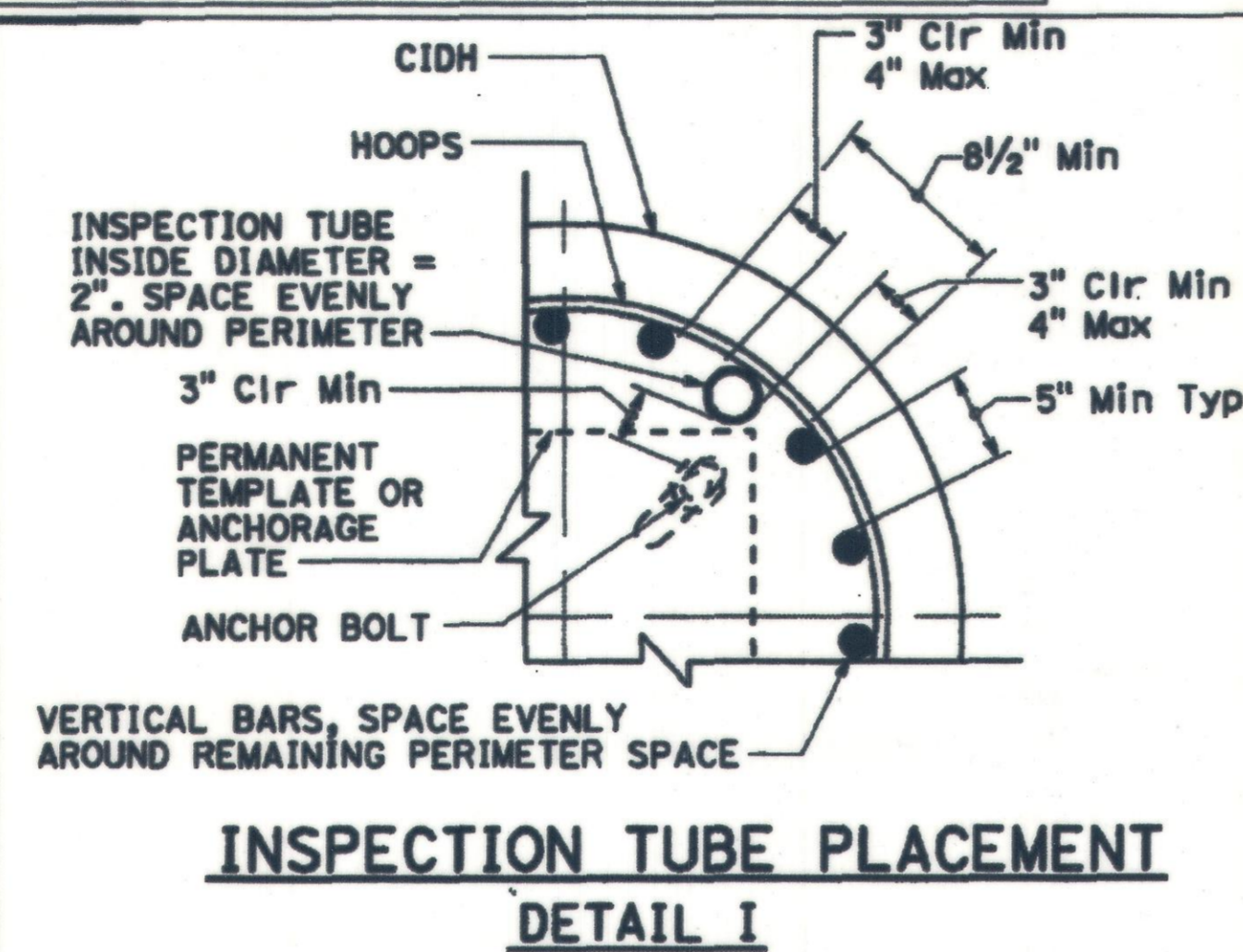


- POLE SHALL BE AMERON, OCTAGONAL SPUNCAST PRESTRESSED CONCRETE WITH A BASE, CONTEMPORARY TYPE 4B1, 24'-8", MODEL NO 4B124, 10000lbs, NATURAL GREY COLOR
- POLE SHALL BE PROVIDED WITH HANDHOLES AND STAINLESS STEEL SCREWS, (4) ANCHOR BOLTS 1"x3/8"x4", BASE COVER, HARDWARE, ANCHOR BOLT CIRCLE TEMPLATE SHAFT, TOP CAP. BASE OD IS 14" AND BOLT CIRCLE IS 17", AND WITH ALL NEEDED HARDWARE
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, 55KSI. WASHER SHALL CONFORM TO ASTM F436. NUTS SHALL CONFORM TO ASTM A563.

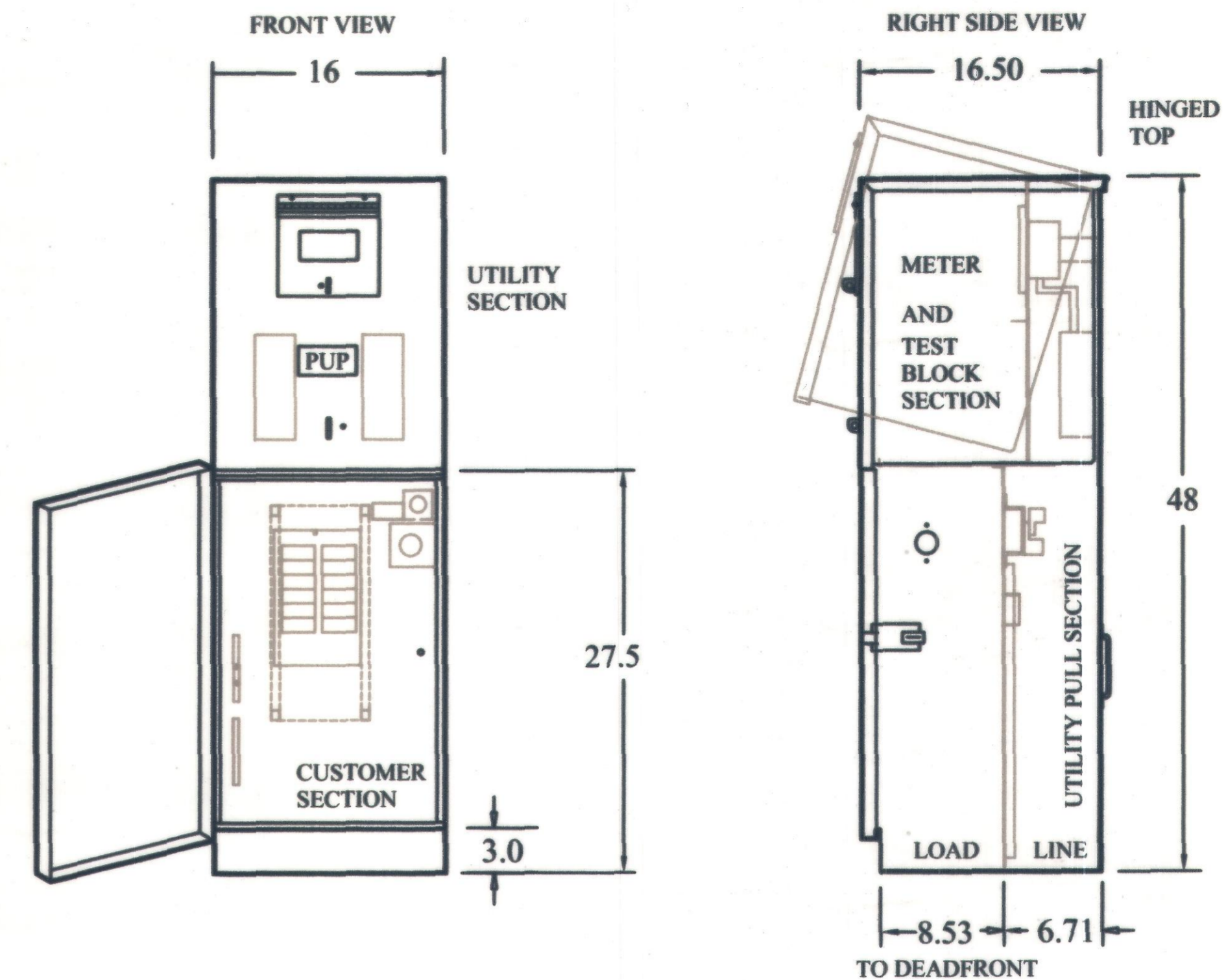
**DETAIL 1: POLE DETAIL**  
SCALE: NONE

CIDH REINFORCING AND INSPECTION TUBE SCHEDULE			
CIDH DIAMETER	VERTICAL BARS	HOOPS (WELDED)	INSPECTION TUBE
2 ft	8-#5	#4 AT 6	2
2.5 ft	10-#6	#4 AT 6	4*
3 ft	12-#7	#5 AT 6	4
3.5 ft	14-#8	#5 AT 6	4
4 ft	18-#9	2-#4 AT 7	5
5 ft	22-#10	2-#5 AT 7	6
6 ft	26-#11	2-#6 AT 7	7

\* FOR SLIP BASE VERSIONS WITH 3 ANCHOR BOLTS USE 3 INSPECTION TUBES.



**INSPECTION TUBE PLACEMENT DETAIL I**

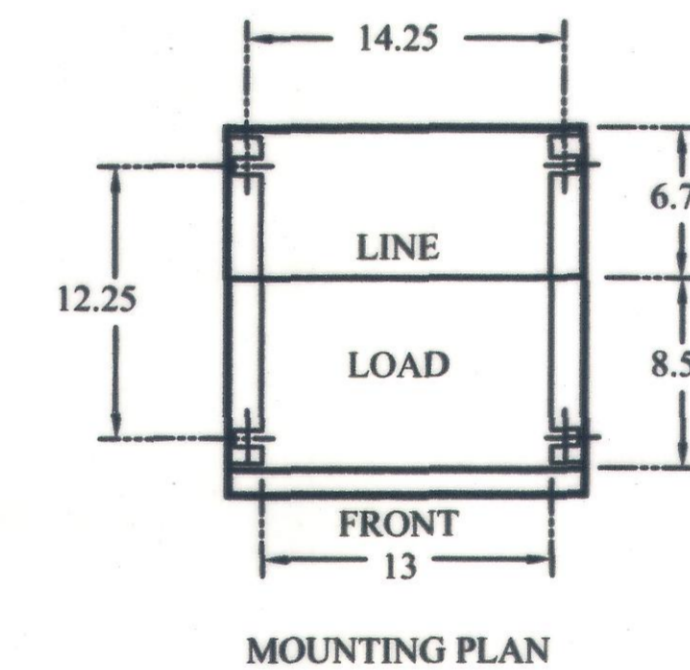


**SINGLE METER SERVICE PEDESTAL**

TYPICAL APPLICATIONS INCLUDE PARKING LOT LIGHTING, HIGHWAY, STREET AND SIGN LIGHTING AND TRAFFIC SIGNAL CIRCUITS.

**STANDARD FEATURES**

- METER SOCKET WITH TEST BLOCKS 4-JAW
- UTILITY LANDING LUGS 250kCMIL
- STANDARD VOLTAGE 120 / 240 VAC 1-PHASE 3-WIRE
- CIRCUIT BREAKER INTERIOR COPPER BUS
- \* ALL METERED 12-CIRCUIT 125 OR 200 AMPERES OR; 8-CIRCUIT 125 AMPERES, METERED AND UN-METERED
- ACCOMMODATES 24-CIRCUIT INTERIOR MAXIMUM



**CAL TRANS TYPE III-BF**

**SPECIFICATIONS**

- \* COMPLIES WITH EUSERC STANDARDS & DWG. 308
- \* 12 GA. NEMA 3R CONSTRUCTION
- \* POLYESTER POWDER-COATED FINISH EXCEEDS ASTM B-117 SPECIFICATIONS
- \* FABRICATED FROM CORROSION-RESISTANT ZINC COATED STEEL
- \* AVAILABLE IN ALUMINUM & STAINLESS STEEL
- \* RECOMMENDED ANCHOR BOLT SIZE WHEN BASE IS NOT USED, 5/8"x18"x4"
- \* LIGHT GREEN COLOR NO. 14672 PER FEDERAL SPECIFICATIONS 595 - CUSTOM COLORS AVAILABLE
- \* ALL FACTORY WIRING 600 VOLT RATED COPPER
- \* ALL COMPONENTS UL LISTED
- \* ALL EXTERIOR DOORS AND COVERS PADLOCKABLE
- \* UTILITY COVERS SEALABLE

METER PEDESTALS ARE MADE BY MYERS- PACIFIC UTILITY PRODUCTS, MODEL NO. USP16-M2100-112CTB, UL LISTED, NEMA 3R, SINGLE PHASE, 3 WIRES, WITH BUILT-IN 100A/2P MAIN, AND 10 CIRCUITS PANEL, METER WITH TEST BLOCK, BUILT-IN TIME CLOCK WITH (4) ZONES, INTERMATIC, GREEN COLOR, STEEL, WHITE MOUNTING BASE, STAINLESS STEEL, MEETS EUSERC 308 REQUIREMENTS. PROGRAM LIGHTING CONTROL PER OWNER REQUIREMENTS

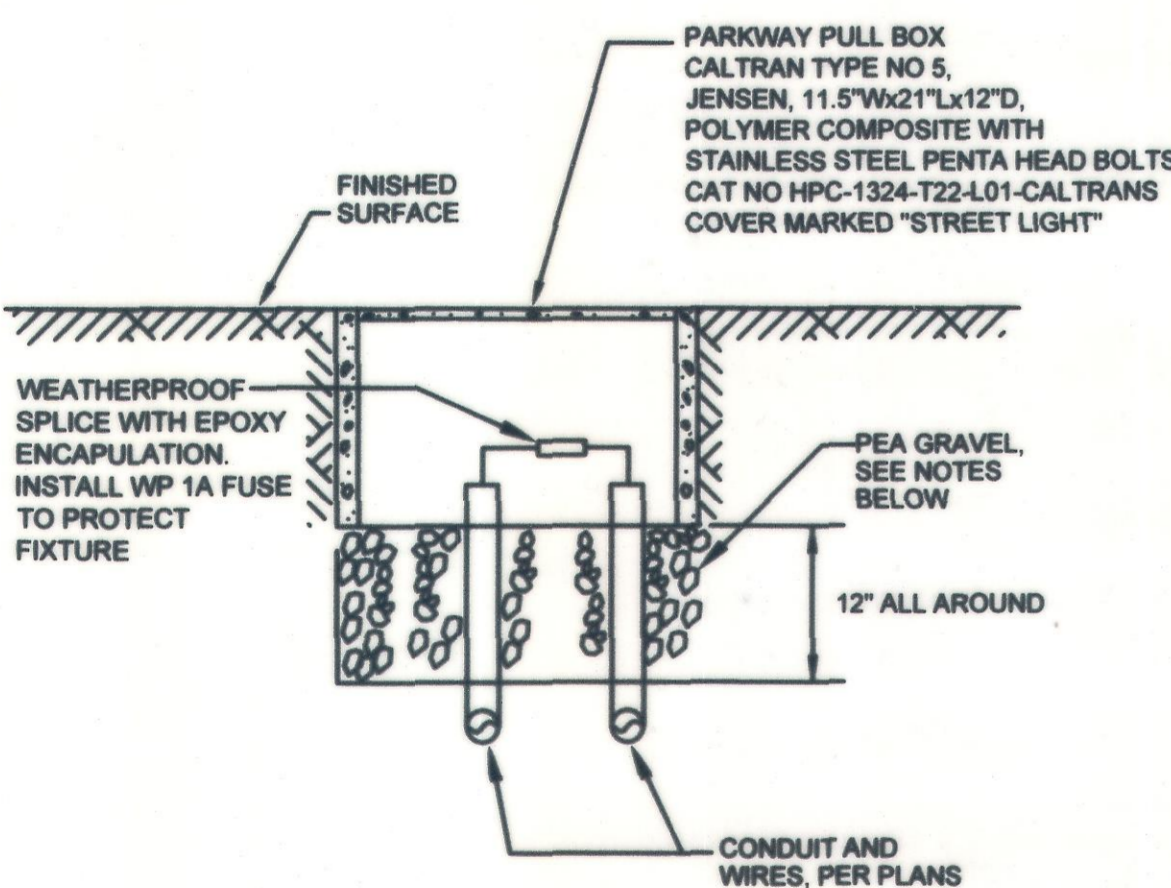
MAIN BREAKER IS 65,000 AIC EATON TYPE ED, AND PROVIDES UL LISTED SERIES RATING OF 42,000 AIC WITH EATON TYPE BR BRANCH BREAKERS OF 10,000 AIC

TIME CLOCK SHALL BE INDOOR STEEL, INTERMATIC DIGITAL TIMER, ASTRONOMIC, 7-DAYS DUSK/DAWN, 4 CIRCUITS, 4 ZONES, MODEL NO ET2845CP, MEET T20 COMPLIANCE. 6.5"Wx10"Hx4"D

INSTALL METER PEDESTAL AT 3000 PSI CONCRETE FOUNDATION, 28"Wx28"Lx24"D WITH (4) ANCHOR BOLTS, 5/8" DIAMETER X 18" LONG WITH 4"- 90 DEGREES GALVANIZED, WITH REBARS #5 @12"O.C. EACH WAY WITH HOOKS AT TOP AND BOTTOM END OF CONCRETE. REBARS TO BE COVERED WITH 3" OF CONCRETE ALL AROUND. INSTALL 6" OF CONCRETE AROUND ENTIRE PEDESTAL WITH TOP OF CONCRETE FOOTING FLUSHED WITH SIDEWALK OR 1" ABOVE FINISHED SURFACE IF SURROUNDED WITH DIRT. SEE CALTRAN STANDARD PLAN ES-2E, DETAIL A AND B FOR ADDITIONAL INFORMATION

**DETAIL 5: PEDESTAL ELECTRICAL SERVICE**

SCALE: NONE



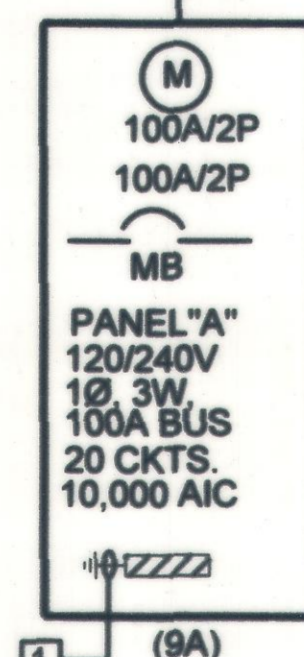
- 12" DEEP AND 6" ALL AROUND OF PEA GRAVEL SHALL BE AS A SUMP UNDER EACH PULL BOX.
- INSTALL AT 1/2" ABOVE FINISHED SURFACE TO PREVENT RAIN WATER TO INSIDE, WHEN IN DIRT AREA
- INSTALL FLUSH WITH FINISHED SURFACE WHEN INSTALLED AT SIDEWALK OR BIKE PATH AREA
- INSTALL A WEATHERPROOF ONE AMP IN-LINE FUSE HOLDER INSIDE PULL BOX TO FEED LIGHT FIXTURES.

**DETAIL 2: PARKWAY PULL BOX - DETAIL**

SCALE: NONE

EX. SCE SERVICE POLE NO 1125383E, WITH NEW, 25KVA TRANSFORMER

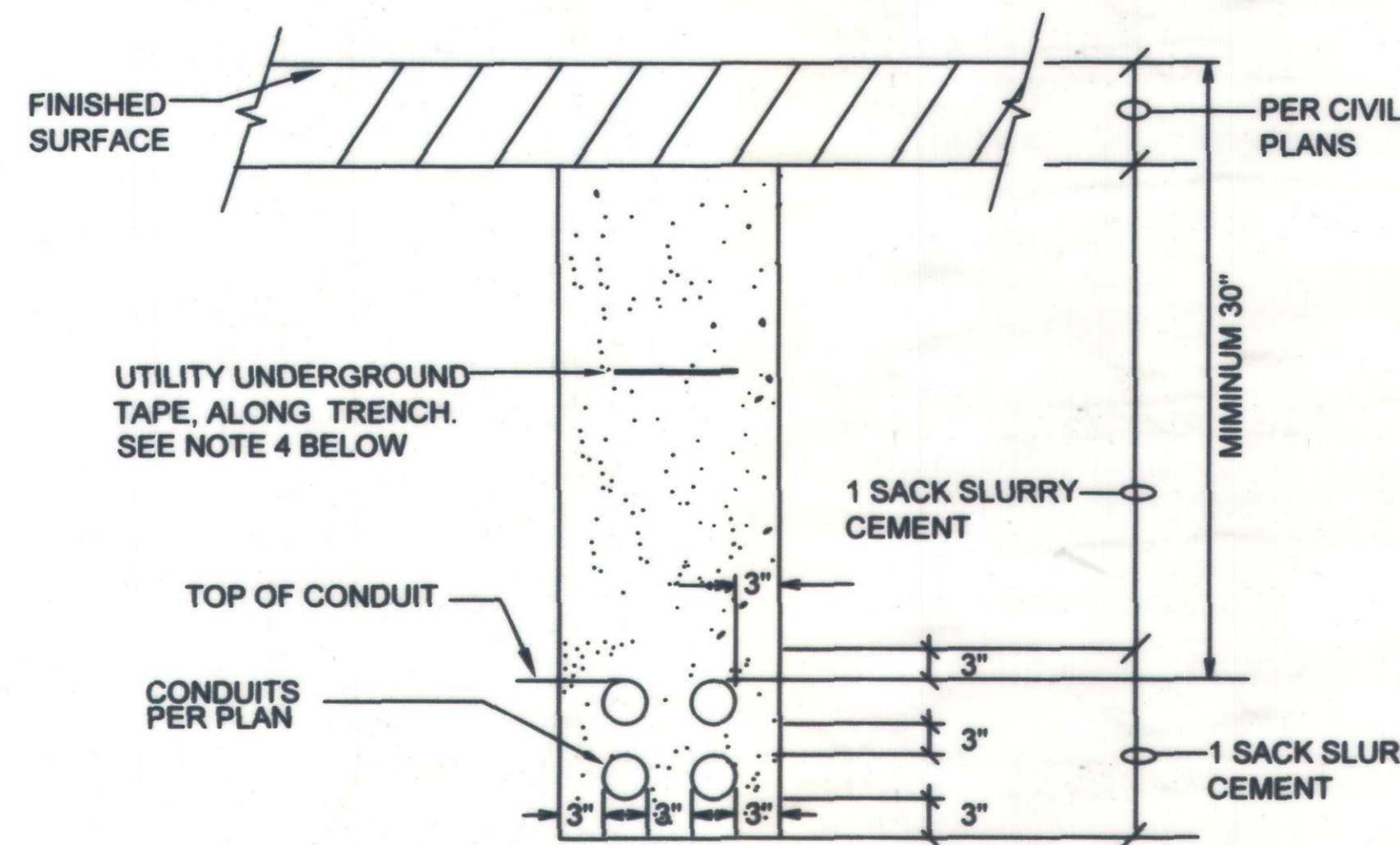
U/G 3"C.O. (E) BY CONTRACTOR, AND CABLES BY SCE, ABOUT 10'



- 1. INSTALL 5/8" DIAMETER, 10' DEEP, STAINLESS STEEL GROUND ROD, INSIDE PEDESTAL, USING NO 4 COPPER GROUND WIRES PER CODE

**DETAIL 3: ONE LINE DIAGRAM**

SCALE: NONE



**NOTE:**

- EXCAVATION SAFETY REQUIREMENTS FOR SHORING, SHALL BE PER CAL-OSHA
- FOR ALL CONDUITS SIZES AND TOTAL NUMBER, SEE PLANS.
- CONTRACTOR MAY VARY LAYOUT OF CONDUITS TO SUIT FIELD CONDITIONS
- UNDERGROUND REINFORCED DETECTABLE MARKING TAPES, 6" WIDE, RED COLOR, AND STATING "CAUTION BURIED ELECTRIC LINE BELOW". INSTALL AT 15" BELOW FINAL SURFACE

**DETAIL 4: UNDERGROUND CONDUIT INSTALLATION (TYPICAL)**

SCALE: NONE

BENCH MARK NO. BM3A-86

LOCATION: FD 2" CITY OF UPLAND DISC IN TOP OF N/W CORNER P.C.C. PLANTER CURB 102' EAST OF EUCLID AVENUE AND 39' SOUTH OF CL 9TH STREET

ELEV. 1226.003'

REVISIONS				
MARK	DATE	INITIAL	DESCRIPTION	DATE APP'D

PLANS PREPARED BY:  
  
 GENERAL TECHNOLOGIES & SOLUTIONS  
 1000 W. 7TH STREET, SUITE 2000  
 LOS ANGELES, CA 90017 (213) 877-0888

PREPARED UNDER THE SUPERVISION OF:  
 RAWAD HANI PE 65730 DATE 01/30/2023  
 DESIGN BY: RH DRAWN BY: CAH CHECKED BY: RH

DRAWN BY: CAH  
 DESIGNED BY: RH  
 CHECKED BY: RH  
 RECOMMENDED BY:

REVIEWED BY CITY STAFF  
 DEPARTMENT: PUBLIC WORKS (OPER.)  
 PUBLIC WORKS (ENR.)  
 PUBLIC WORKS (WATER)  
 PUBLIC WORKS (TRAF.)  
 FIRE DEPT.

APPROVED BY:  
  
 PUBLIC WORKS DIRECTOR / CITY ENGINEER  
 R.C.E. 96306 EXP. DATE 12/31/2024

RECOMMENDED BY:  
  
 ENGINEERING

RECOMMENDED BY:  
 DEVELOPMENT SERVICES

**CITY OF UPLAND**  
 PAVEMENT REHABILITATION AND UTILITY IMPROVEMENTS  
 ELECTRICAL DETAILS

WATER DRAWING NO. SHEET SL-3.0 18 of 18 SHEETS DRAWING NO. SI

PROJECT NO. 7076, 7077, 7078, 9145, 9146 & 9147